GRAINGER®

FOR THE ONES WHO GET IT DONE

FOR THE ONES WHO TEAM UP TO GET IT DONE℠

Supplies & Solutions for Every Industry®

ACCESS TO EXPERTS WITH ANSWERS | 24/7 CUSTOMER SERVICE | FAST DELIVERY

A GUIDE **FOR THE ONES WHO GET IT DONE**

EVERYTHING YOU NEED FROM A **SINGLE, RELIABLE SOURCE**

Finding the right product requires the right information at your fingertips. Inside you'll find product specs, selection guides and indexes so you can feel confident you have what you need to get the job done right.

Your solutions don't end with this catalog. **Grainger.com®** has over **1.5 million products** in more than **30 categories**, plus tools and resources to support you every step of the way.

ACCESS TO EXPERTS WITH ANSWERS

Rely on our team of industry professionals for everything from safety and inventory management solutions to answers to tough product questions.

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Count on us day or night with round-the-clock customer service and after-hours branch service options.

NEXT-DAY DELIVERY ON MOST ORDERS

Get the products you need, when you need them. Most in-stock orders received by 5 p.m. (local time of the shipping facility) are delivered to the contiguous U.S. the next business day.

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Head to **Grainger.com®** for access to shipping info and local branch product availability.

CURBSIDE & IN-STORE PICKUP

Stop by one of over 250 branches nationwide where our experienced staff is ready to help get you those last-minute in-stock items the same day.

ORDER YOUR WAY!

> **ONLINE**
at Grainger.com®
and view your pricing

> **ON THE GO**
with the Grainger app
or mobile site

> **ON THE PHONE**
at 1-800-GRAINGER

> **IN A BRANCH**
when you want to stop by

A MOBILE APP THAT GETS YOU WHAT YOU NEED—FAST

Wherever work takes you, we're right there with features like:

- Location-based lists to organize products by physical proximity to where they are used or shipped
- Check in for curbside pickup at a Grainger branch
- Push notifications to easily track your entire order
- **Search by image** to help find products quickly

SNAP PICTURE. ANALYZE PRODUCT. SHOW MATCHES.

SCAN. ORDER. DONE.

Simply scan the item number of the product you need from this catalog, add it to your cart and quickly check out.

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CONTENTS

ONLINE PURCHASING **SOLUTIONS**

Help reduce purchasing costs and increase productivity with Grainger's suite of digital solutions. Register and sign in to your Grainger account to get started.

GRAINGER.COM®

Check real-time product availability and the status of your current orders. You can also access order history and lists, set up auto-reorder and view your account pricing with just a click of a button. Our improved search tools and express checkout help you complete your orders in no time.

- **EASY-TO-FIND** PRODUCTS
- **SMART** ORDERING
- **FAST** CHECKOUT

GRAINGER ORDER MANAGEMENT SYSTEM (OMS)

Set controls on how much your employees can spend on orders, establish spending limits for specific time periods and set up an approval process tailored to your needs. It's easy and customizable.

- **CONTROL** YOUR SPEND
- **STREAMLINE** THE APPROVAL PROCESS
- **CREATE** USAGE REPORTS

ePROCUREMENT

This solution is a fully integrated connection between your company's preferred purchasing platform and Grainger. An eProcurement connection is set up to help you find products, place orders and make payments easily and efficiently. Grainger can connect with over 150 eProcurement platforms including SAP Ariba, Coupa, Jaggaer, Oracle and Workday.

- **MANAGE** YOUR SPEND
- **ENSURE** PROCUREMENT COMPLIANCE
- **AUTOMATE** PROCESSES

MOBILE APP

Use your smartphone or iPad® to place orders when you're on the go. Get pricing and availability by simply logging in and scanning the item number of the product you need, adding it to your cart and quickly checking out. Looking for a Grainger branch? No problem. You can locate the nearest branch right from the mobile app.

- **PLACE** ORDERS ON THE GO
- **CHECK** REAL-TIME AVAILABILITY
- **LOCATE** THE NEAREST BRANCH

SIMPLIFY YOUR ONLINE PURCHASING TODAY!
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FOR THE ONES WHO GET IT DONE **SAFELY**

AVOID INCIDENTS | MAINTAIN COMPLIANCE | MANAGE RISK | INCREASE PRODUCTIVITY

Safety shortcuts don't exist in your world.

The right way is the safe way. To help protect your crew, you want a safety partner who shares your commitment to seeing everyone return home safe at the end of the day. **Count on Grainger to help build your safety culture. We offer:**

- Board Certified Safety Professionals
- Access to safety assessments and training*
- Free safety product technical support
- Experienced branch staff when you stop by
- Real-time product availability and fast delivery

LEARN MORE AT
GRAINGER.COM/SAFETY
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THINK SAFETY THINK GRAINGER®

**Services provided by a third party may be subject to a fee and agreement.*

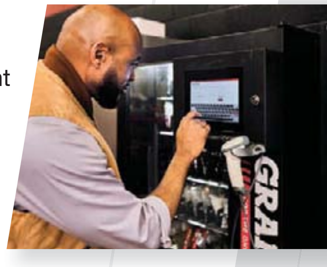
GRAINGER®
FOR THE ONES WHO GET IT DONE

KeepStock®
Inventory Management

TAKE CONTROL OF YOUR STUFF

Inventory managed.
Space organized.
Time and money saved.

What if there were an easier way to help ensure you have the right parts, tools and supplies in the right place right when you need them? Put Grainger's expertise to work for you. It's almost like managing your stuff—those critical inventory items that help keep your operations running—on autopilot.



CMI: Tools for improved visibility and management of Grainger materials

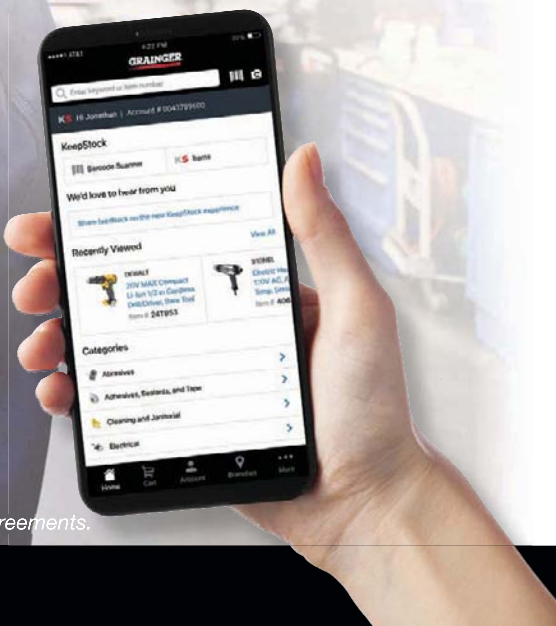
REPLENISH: Scheduled visits help ensure the right Grainger materials are kept on hand

VENDING: Vending helps control consumption of Grainger materials near their point of use

ONSITE: Dedicated resource manages all Grainger materials

MANAGED: Specialist provides MRO supply chain expertise and multi-supplier support

Contact your Grainger rep or visit grainger.com/keepstock to learn more about these and other inventory solutions.



Grainger KeepStock solutions are subject to customer eligibility and agreements.

RIGHT WHERE YOU NEED US

The experienced staff at your local Grainger branch is standing by with answers to your product questions and to help with returns, invoicing and service needs. Will-call ordering options can have in-stock items ready for pick up the same day at the branch—free of charge.

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Montgomery 541 George Todd Dr., 36117

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Tucson 3415 S. Dodge Blvd., 85713

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Phoenix 960 N. 51st Ave., 85043
Phoenix 2002 W. Rose Garden Lane, 85027
Phoenix 4465 E. Broadway Rd., 85040

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Little Rock 6100 Murray St., 72209
Springdale 1205 S. Old Missouri Rd., 72764

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Fresno 1335 Tuolumne St., 93706
Salinas 1334 Dayton St., 93901
Stockton 2501 Stagecoach Rd., 95215

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Rohnert Park 5760 Commerce Blvd., 94928
San Jose 2261 Ringwood Ave., 95131
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Oxnard 101 S. Rice Ave., 93030
Santa Fe Springs 10137 S. Norwalk Blvd., 90670

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Garden Grove* 12871 Western Ave., Suite A, 92841
Santa Ana 2401 Pullman St., 92705

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Denver 4885 Paris St., 80239
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Orlando 902 Lee Rd., 32810
Pompano Beach 2131 SW 2nd St., Bldg. 8, 33069
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West Melbourne 101 S. Wickham Rd., 32904

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Downers Grove 2701 Ogden Ave., 60515
Minooka* 701 Grainger Way, 60447
Peoria 1017 SW Jefferson Ave., 61605
Rockford 5862 Harrison Ave., 61108
Waukegan 3585 Sunset Ave., 60087

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Gonzales .... 9506 Ashland Rd., 70737

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Eatontown .... 212 Industrial Way W., 07724
Elizabeth .... 560-596 Bercik St., Suite 1, 07201
Mt. Laurel .... 819 E. Gate Dr., 08054
South Plainfield .... 1001 Hadley Rd., 07080

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When you need products in a pinch, **call our after-hours service.** Most of our Grainger branch locations are able to open anytime—even nights and weekends—to help you get what you need.*

For access, call 1-800-CALL-WWG

**$50 fee may apply, see our Terms of Sale for details. Grainger account required. We can establish a new account for business customers at the time of the call. After-hours service may not be available in some locations.*

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Rochester . . . . 1999 Mt. Read Blvd., 14615

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Dayton . . . . .2321 Needmore Rd., 45414
Perrysburg . . . . 1300 Third St., 43551
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Knoxville . . . . .6500 Baum Dr., 37919
Memphis . . . . 1901 Nonconnah Blvd., 38132
Nashville . . . . .1021 Charlotte Ave., 37203
Nashville . . . . .1938 Elm Tree Dr., 37210

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Austin . . . . .7950 Research Blvd., Suite 101, 78758
Beaumont . . . . 125 Sawyer St., 77702
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Corpus Christi . . . . .430 Sun Belt Dr., 78408
El Paso . . . . .1400 Lomaland Dr., 79935
Kenedy . . 322 West Main, Suites 120 & 140, 78119
Laredo .610 Gale St., 78041
Longview . . . . .1507 W. Cotton St., 75604
Lubbock . . . . .502 E. 40th St., 79404
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San Antonio . . . . 4924 NW Loop 410, 78229
San Antonio . . . . 5011 Rittiman Rd., 78218
Waco . . . . .6901 Imperial Dr., 76712

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Dallas . . . 8321 John W. Carpenter Freeway, 75247
Ft. Worth . . . . 300 W. Vickery Blvd., 76104
Ft. Worth . . . . 5000 Northeast Pkwy., 76106
Garland . . . . .2701 W. Kingsley Rd., 75041
Plano . . . . 2601 E. Plano Pkwy., 75074
Roanoke** . . . . 201 Freedom Dr., 76262

TEXAS cont.

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Houston . . . . 4545 Darien St., 77028
Houston . . . . 6050 Southwest Freeway, 77057
Houston . . . . .8200 Pinemont Dr., 77040
Houston . . . . 16741 North Freeway, 77090
Houston . . . . 17010 Katy Fwy., 77094
Stafford . . . . 3900 Greenbriar Dr., 77477

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Norfolk . . . . 1401 Sewells Point Rd., 23502

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Milwaukee . . . . .5819 N. 117th St., 53225
Waukesha . . . . N21 W23020 Watertown Rd., 53188

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**Will-Call Express Branch—order pick up only. **Will-Call Express Branch—order pick up and showroom.*
See Grainger.com® or the Grainger mobile app for additional branch information.

ABOUT GRAINGER'S INTERNATIONAL PRESENCE

International operations are complex. When it comes to getting the maintenance, repair and operating (MRO) products and services you need, your business demands an easy, reliable and consistent experience. Whether you manage a large manufacturing plant that produces products for millions of people or a small local business that residents rely on, Grainger makes doing business across borders easier with international solutions, managed locally, that help alleviate challenges associated with MRO.

WHY INTERNATIONAL OPERATIONS CHOOSE GRAINGER

Grainger offers MRO products, services and solutions that are globally served with a local experience to help you with the pressures associated with keeping your operations running and people safe. Grainger carries 250K–1.5M products* across 28–35 categories within the US, Canada, Mexico and UK, and serves businesses through Global Export across 120+ countries including Latin America, the Middle East and Asia Pacific with our dedicated export team that's ready to take care of your export needs.

GRAINGER IS READY TO HELP

Contact your Grainger Representative, email export@grainger.com or call +1-847-588-5000 today!

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For more information, visit **grainger.com/worldwide** for Grainger Global Export or **grainger.com/internationalsolutions** for Grainger International Solutions.

**All products may not be available within the US, UK, Mexico and Canada or otherwise available for export depending on the country.*

MotorMatch® Selection Guide

Motors are used in a wide variety of applications. In some applications more than one motor design would work; in others, if an exact replacement cannot be found, a similar motor with slight differences in mechanical and electrical characteristics will provide reliable operation. The following selection guide is designed to help you choose the correct motor for your application.

STEP 1: GATHER MOTOR INFORMATION

You will need the following information to properly select a motor. If you are replacing a motor, much of the information can be found on the existing motor nameplate. See the sample nameplate on this page:

1-Phase (PH): Either single (1) or three (3). Match exactly.

2-Voltage (Volts): Match exactly.

3-Horsepower (HP): Very small motors are often rated in watts. Choose an equal or next higher HP.

4-Frame: Match exactly.

5-RPM: Match within 5%.

6-Frequency (Hz): Match exactly.

7-Service Factor (SF): Choose a motor of equal or greater number.

8-Design: See table on this page.

9-Enclosure (Encl.): See table on this page.

10-Duty: If current motor is intermittent duty, you may upgrade to continuous.

11-Bearing Type: Sleeve or Ball.

12-Thermal Protection: See Thermal Protection Information on this page.

AC MOTOR TYPES

Phase	Design	Typical RPM	Starting Torque as Percent of Full-Load Torque	Comparative Efficiency	Typical Uses
1	Shaded Pole	1050, 1550, 3000	Very Low 50-100%	Low	Small direct-drive fans & blowers
1	Permanent Split Capacitor (PSC)	825, 1075, 1625	Low 75-150%	Moderate	Direct-drive fans & blowers
1	Split-Phase	1140, 1725, 3450	Low to Moderate 130-170%	Moderate	Belt-drive & direct-drive fans & blowers, small tools, centrifugal pumps, & appliances
1	Capacitor-Start	1140, 1725, 3450	Moderate to High 200-400%	Moderate to High	Pumps, compressors, tools, conveyors, farm equipment, & industrial ventilators
3	3-Phase	1140, 1725, 3450	Moderate to High 200-300%	High	Applications where 3-Phase power is available

ENCLOSURE TYPES

Enclosure Type	How Can I Tell?	Where Do I Use This Enclosure?
Open Dripproof (ODP)/Open/ Open Air-Over (OPAO)	Ventilation holes in shell and/or endshield	Clean, dry, nonhazardous environments
Totally Enclosed Fan-Cooled (TEFC)/Totally Enclosed Nonventilated (TENV)	No ventilation holes in shell or endshield	Dirty, moist, nonhazardous environments
Hazardous Location	Enclosed. Must have a UL Hazardous Location nameplate on motor	Designed for use in hazardous environments as defined by National Electrical Code (NEC) classifications. NEC Class and Group are designated on UL Hazardous Location nameplate mounted on motor. See page 6 for more details.

STEP 2: DETERMINE THE RIGHT CATALOG SECTION

By your category: Many motors are listed by category. You will find these categories under "Motors" in the Product Index in the catalog. Turn to the specific page or section to find your motor. If your category is not listed in the index, choose your motor by its characteristics.

By the characteristics: Motor design, horsepower, RPM, frame, voltage, and enclosure. Grainger carries General Purpose motors designed for reliable use in a wide variety of applications, Definite Purpose motors for specific applications, HVAC motors for various air moving applications, and Pump motors for applications moving water and gases.

General Purpose Motors are designed for mechanical loads (also effective for air moving), and for hard-to-start applications such as conveyors, belt-driven equipment, machine tools, and reciprocating pumps. These motors feature ball bearings to handle heavier radial and axial loads and heavier construction for industrial applications.

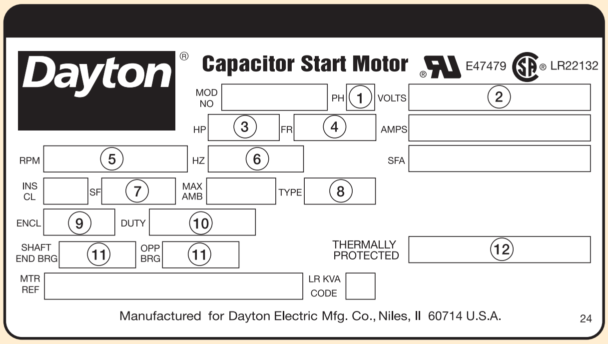
Definite Purpose Motors are designed for specific applications such as washdown, hazardous location, farm-duty, etc. Motor features are driven by the specific application's environment.

HVAC Motors are designed mostly for air moving and other light- to medium-duty applications, such as fans and centrifugal pumps, small tools, and office equipment.

Pump Motors are used for pump applications like pool pumps, carbonator pumps, and close-couple pumps. Motor features are driven by the application and move water and gases.

STEP 3: SELECT THE SPECIFIC MOTOR

Match the information gathered in Step 1.



Thermal Protection Information

Motors that start automatically (e.g. thermostat controlled) after tripping and that are located out of operator sight must be protected against dangerous overheating due to failure-to-start or overloading.

This protection may be a separate overcurrent device (e.g. motor starter) complying with Article 430 of the National Electrical Code (NEC), a thermally protected motor (internal motor protection), or an impedance-protected motor.

Motors with automatic reset thermal protection MUST NOT be used where automatic or otherwise unexpected starting of the motor could be hazardous. Applications where automatic restarting could be hazardous include compressors, conveyors, power tools, farm equipment, and some fans and blowers. Where such a hazard exists, always use a manual reset, thermally protected motor.

UL 507 Standard

Any motor used in a fan product, such as bathroom exhaust fans, wall-insert fans, ceiling-insert fans, attic-exhaust fans, whole-house fans, and duct fans, etc., which are built into or within the building structure and which are likely to operate unattended or in situations in which the operator may not detect a locked rotor (stalled motor) condition, must have either a manual reset thermal protector or a thermal cutoff (1-shot) device.

Range hoods, circulating fans, pedestal fans, and ceiling-suspended fans are not included. Agricultural fans are included if they are built into the building structure and are likely to operate unattended or in situations in which the person operating the fan may not detect a locked rotor (stalled motor) condition; they must have either a manual reset thermal protector or a thermal cutoff (1-shot) device.

Premium Efficiency vs. Standard Efficiency

If you operate a 25 HP premium efficiency motor at full load for 24 hr. a day (8760 hr. per yr.) and your cost per kilowatt hr. is 9 cents, you can save $532.00 annually.

This comparison is based on a premium efficiency motor with a 94.1% efficiency rating vs. a high efficiency motor with a 91.0% efficiency rating.

Increased efficiency leads to lower operating temp., resulting in longer life.

Cool Operation: The life of an insulation system doubles for each 10°C reduction in operating temp.

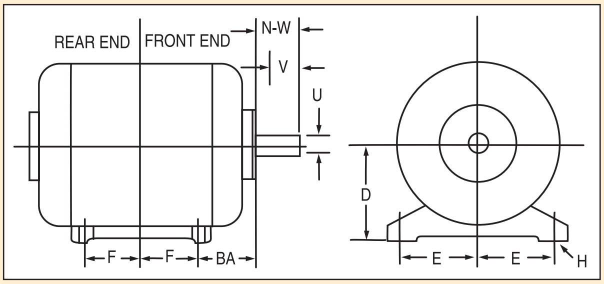
Longer Bearing Life: The lower the temp., the longer the bearing grease will last.

Annual Savings = $0.746 \times HP \times L \times C \times N \left(\frac{100}{E_1} - \frac{100}{E_2}\right)$

HP = Motor Horsepower
L = Percent Load Divided by 100
C = Energy Cost, Dollars per kW Hr.
N = Running Time, Hr. per Yr.
E1 = Efficiency (%) of Standard Efficiency Motor
E2 = Efficiency (%) of Premium Efficiency Motor

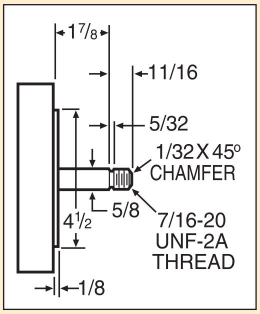
Motor Dimensional Chart

Standardized motor dimensions—established by the National Electrical Manufacturers Association (NEMA)—are tabulated below and apply to all base-mounted motors listed herein that carry a NEMA frame designation.

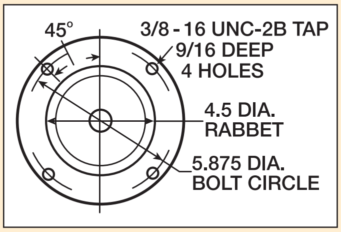


NEMA C- AND J-FACE MOUNTING DIMENSIONS

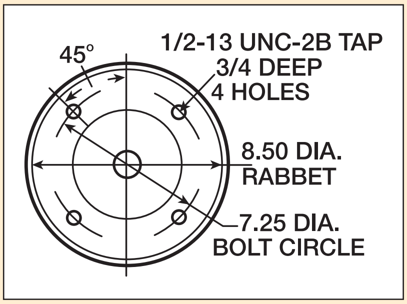
Mounting dimensions of the 56J-Face are exactly the same as the NEMA 56C. 56J-Face has a threaded shaft of stainless steel while all others have a keyed steel shaft. See illustrations and table below for specifics.



56J SHAFT



56C, 56HC, 56J, 143TC AND 145TC – FACE DIMENSIONS



182TC THRU 256TC – FACE DIMENSIONS

NEMA Face	Shaft Dia. (U)	Shaft Long (N-W)	Rabbet Dia.	Bolt Circle Dia.
42C	⅜	1⅛	3	3¾
48C	½	1½	3	3¾
56C	⅝	1⅞	4½	5⅞
56HC‡	⅝	1⅞	4½	5⅞
56J	⅝	2 7/16	4½	5⅞
143TC & 145TC	⅞	2¼	4½	5⅞
146ATC & 1412ATC	⅞	2¼	4½	5⅞
L182ACY & 186ACY	⅞	2¼	4½	5⅞
182TC & 184TC	1⅛	2¾	8½	7¼
186ATC & 189ATC	1⅛	2¼	8½	7¼
213TC & 215TC	1⅜	3⅜	8½	7¼
219ATC & 2110ATC	1⅜	2¾	8½	7¼
254TC & 256TC	1⅝	4	8½	7¼
284TC & 286TC	1⅝	4⅝	10½	9

All Dimensions in Inches

NEMA Frame	D*	2E	2F	BA	H	N-W	U	V§ Min.	Key Wide	Key Thick	Key Long
42	2⅝	3½	1 11/16	2 1/16	9/32 slot	1⅛	⅜	—	—	3/64 flat	—
48	3	4¼	2¾	2½	11/32 slot	1½	½	—	—	3/64 flat	—
48H	3	4¼	4¾	2½	11/32 slot	1½	½	—	—	3/64 flat	—
56	3½	4⅞	3	2¾	11/32 slot	1⅞ †	⅝ †	—	3/16 †	3/16 †	1⅜ ‡
56H	3½	4⅞	3 & 5‡	2¾	11/32 slot	1⅞ †	⅝ †	—	3/16 †	3/16 †	1⅜ †
56HZ	3½	**	**	**	**	2¼	⅞	2	3/16	3/16	1⅜
66	4⅛	5⅞	5	3⅛	13/32 slot	2¼	¾	—	3/16	3/16	1⅞
143T	3½	5½	4	2¼	11/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
145T	3½	5½	5	2¼		2¼	⅞	2	3/16	3/16	1⅜
146AT	3½	5½	5½	2¾	11/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
148AT	3½	5½	7	2¾		2¼	⅞	2	3/16	3/16	1⅜
149AT	3½	5½	8	2¾		2¼	⅞	2	3/16	3/16	1⅜
1412AT	3½	5½	11	2¾		2¼	⅞	2	3/16	3/16	1⅜
182	4½	7½	4½	2¾	13/32 dia.	2¼	⅞	2	3/16	3/16	1⅜
184	4½	7½	5½	2¾		2¼	⅞	2	3/16	3/16	1⅜
182T	4½	7½	4½	2¾		2¾	1⅛	2½	¼	¼	1⅜
184T	4½	7½	5½	2¾		2¾	1⅛	2½	¼	¼	1⅜
182AT	4½	7½	4½	2¾	13/32 dia.	2¼	1⅛	2	¼	¼	1⅜
L182ACY	4½	7½	4½	2¾		2¼	⅞	2	3/16	3/16	1⅜
L182AT	4½	7½	4½	2¾		2¼	1⅛	2	¼	¼	1⅜
186ACY	4½	7½	7	2¾		2¼	⅞	2	3/16	3/16	1⅜
186AT	4½	7½	7	2¾		2¼	1⅛	2	¼	¼	1⅜
L186AT	4½	7½	7	2¾		2¼	1⅛	2	¼	¼	1⅜
189AT	4½	7½	10	2¾		2¼	1⅛	2	¼	¼	1⅜
203#	5	8	5½	3⅛	13/32 dia.	2¼	¾	2	3/16	3/16	1⅜
204#	5	8	6½	3⅛		2¼	¾	2	3/16	3/16	1⅜
213	5¼	8½	5½	3½	13/32 dia.	3	1⅛	2¾	¼	¼	2
215	5¼	8½	7	3½		3	1⅛	2¾	¼	¼	2
213T	5¼	8½	5½	3½		3⅜	1⅜	3⅛	5/16	5/16	2⅜
215T	5¼	8½	7	3½		3⅜	1⅜	3⅛	5/16	5/16	2⅜
219AT	5¼	8½	11	3½	13/32 dia.	2¾	1⅜	2½	5/16	5/16	1¾
2110AT	5¼	8½	12½	3½		2¾	1⅜	2½	5/16	5/16	1¾
224#	5½	9	6¾	3½	13/32 dia.	3	1	2¾	¼	¼	2
225#	5½	9	7½	3½		3	1	2¾	¼	¼	2
254#	6¼	10	8¼	4¼	21/32 dia.	3⅜	1⅛	3⅛	¼	¼	2⅜
254U	6¼	10	8¼	4¼	17/32 dia.	3¾	1⅜	3½	5/16	5/16	2¾
256U	6¼	10	10	4¼		3¾	1⅜	3½	5/16	5/16	2¾
254T	6¼	10	8¼	4¼		4	1⅝	3¾	⅜	⅜	2⅞
256T	6¼	10	10	4¼		4	1⅝	3¾	⅜	⅜	2⅞
284#	7	11	9½	4¾	21/32 dia.	3¾	1¼	3½	¼	¼	2¾
284U	7	11	9½	4¾	17/32 dia.	4⅞	1⅝	4⅝	⅜	⅜	3¾
286U	7	11	11	4¾		4⅞	1⅝	4⅝	⅜	⅜	3¾
284T	7	11	9½	4¾		4⅝	1⅞	4⅜	½	½	3¼
286T	7	11	11	4¾		4⅝	1⅞	4⅜	½	½	3¼
284TS	7	11	9½	4¾		3¼ ^	1⅝ ^	3 ^	⅜	⅜	1⅞ ^
286TS	7	11	11	4¾		3¼ ^	1⅝ ^	3 ^	⅜	⅜	1⅞ ^
324#	8	12½	10½	5¼	21/32 dia.	4⅞	1⅝	4⅝	⅜	⅜	3¾
326#	8	12½	12	5¼		4⅞	1⅝	4⅝	⅜	⅜	3¾
324U	8	12½	10½	5¼	21/32 dia.	5⅝	1⅞	5⅜	½	½	4¼
326U	8	12½	12	5¼		5¼	1⅞	5⅜	½	½	4¼
324T	8	12½	10½	5¼		5¼	2⅛	5	½	½	3⅞
326T	8	12½	12	5¼		5¼	2⅛	5	½	½	3⅞
324TS	8	12½	10½	5¼		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
326TS	8	12½	12	5¼		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
364#	9	14	11¼	5⅞	21/32 dia.	5⅝	1⅞	5⅜	½	½	4¼
364S#	9	14	11¼	5⅞		3¼	1⅝	3	⅜	⅜	1⅞
365#	9	14	12½	5⅞		5⅝	1⅞	5⅜	½	½	4¼
364U	9	14	11¼	5⅞	21/32 dia.	6⅜	2⅛	6⅛	½	½	5
365U	9	14	12½	5⅞		6⅜	2⅛	6⅛	½	½	5
364T	9	14	11¼	5⅞	21/32 dia.	5⅞	2⅜	5⅞	⅝	⅝	4¼
365T	9	14	12¼	5⅞		5⅞	2⅜	5⅞	⅝	⅝	4¼
364TS	9	14	11¼	5⅞		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
365TS	9	14	12¼	5⅞		3¾ ^	1⅞ ^	3½ ^	½	½	2 ^
404T	10	16	12¼	6⅝	13/16 dia.	7¼	2⅞	7	¾	¾	5⅝
405T	10	16	13¾	6⅝		7¼	2⅞	7	¾	¾	5⅝
404TS	10	16	12¼	6⅝		4¼ ^	2⅛ ^	4 ^	½	½	2¾ ^
405TS	10	16	13¾	6⅝		4¼ ^	2⅛ ^	4 ^	½	½	2¾ ^
404U	10	16	12¼	6⅝		7⅛	2⅜	6⅞	⅝	⅝	5½
405U	10	16	13¾	6⅝		7⅛	2⅜	6⅞	⅝	⅝	5½
444T	11	18	14½	7½	13/16 dia.	8½	3⅜	8¼	⅞	⅞	6⅞
445T, 447T§§	11	18	16½	7½		8½	3⅜	8¼	⅞	⅞	6⅞
444TS, 447TS§§	11	18	14½	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^
445TS	11	18	16½	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^
444U	11	18	14½	7½	13/16 dia.	8⅝	2⅞	8⅜	¾	¾	7
445U	11	18	16½	7½		8⅝	2⅞	8⅜	¾	¾	7
449T	11	18	25	7½		8½	3⅜	8¼	⅞	⅞	6⅞
449TS	11	18	25	7½		4¾ ^	2⅜ ^	4½ ^	⅝	⅝	3 ^

* Dimension "D" will never be greater than the above values on rigid mount motors, but it may be less so that shims up to 1/32" thick (1/16" on 364U and 365U frames) may be required for certain machines.

‡ Designated 56H motors have 2 sets of 2F mounting holes—3" and 5".

^ Standard short shaft for direct-drive applications.

\# Discontinued NEMA frame.

** Base of Dayton 56HZ frame motors has holes and slots to match NEMA 56, 56H and 145T mounting dimensions.

† Certain NEMA 56Z frame motors have ½" dia. x 1½" long shaft with 3/64" flat." These exceptions are noted in this catalog.

§ Dimension "V" is shaft length available for coupling, pinion, or pulley hub—this is a minimum value.

§§ The 2F dimension is 20.

NEMA Letter Designations Following Frame Number

C: Face-mount; see this page.

H: Designated 56H motors have 2 sets of 2F mounting holes—3" and 5".

J: Face-mount for jet pumps; see this page for dimensions.

K: Has hub for sump pump mounting; see column at left for dimensions.

M, N: Flange mount for oil burner; see page 59.

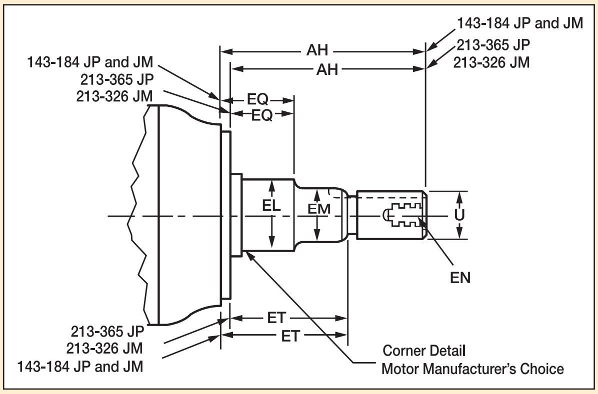
T, U: Integral HP motor dimension standards set by NEMA in 1964 and 1953.

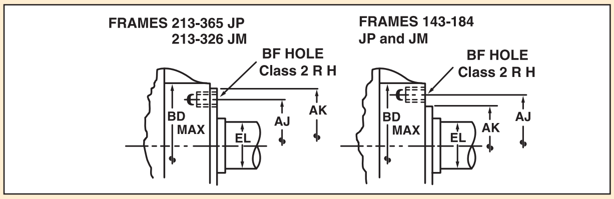
V: Vertical mount.

Y: Nonstandard mounting; see manufacturer's drawing for mounting dimensions.

Z: Nonstandard shaft (N-W+U dimensions); see manufacturer's drawing for shaft dimensions.

CLOSE-COUPLED PUMP SHAFT DIMENSIONS





Frame Designations	Dimensions (in.)										
	U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
143JM/145JM	7/8	1 5/32	1	3/8-16 x 3/4	5/8	2 7/8	4 1/4	5 7/8	4 1/2	6 5/8	3/8-16
143JP/145JP	7/8	1 5/32	1	3/8-16 x 3/4	1 9/16	5 15/16	7 5/16	5 7/8	4 1/2	6 5/8	3/8-16
182JM/184JM	7/8	1 1/4	1	3/8-16 x 3/4	5/8	2 7/8	4 1/4	5 7/8	4 1/2	6 5/8	3/8-16
182JP/184JP	7/8	1 1/4	1	3/8-16 x 3/4	1 9/16	5 15/16	7 5/16	5 7/8	4 1/2	6 5/8	3/8-16
213JM/215JM	7/8	1 1/4	1	3/8-16 x 3/4	5/8	2 7/8	4 1/4	7 1/4	8 1/2	9	1/2-13
213JP/215JP	1 1/4	1 3/4	1 3/8	1/2-13 x 1	2 3/8	5 7/8	8 1/8	7 1/4	8 1/2	9	1/2-13
254JM/256JM	1 1/4	1 3/4	1 3/8	1/2-13 x 1	5/8	3	5 1/4	7 1/4	8 1/2	9 1/4	1/2-13
254JP/256JP	1 1/4	1 3/4	1 3/8	1/2-13 x 1	2 3/8	5 7/8	8 1/8	7 1/4	8 1/2	9	1/2-13
284JM/286JM	1 1/4	1 3/4	1 3/8	1/2-13 x 1	5/8	3	5 1/4	11	12 1/2	13 7/8	5/8-11
284JP/286JP	1 1/4	1 3/4	1 3/8	1/2-13 x 1	2 3/8	5 7/8	8 1/8	11	12 1/2	13 7/8	5/8-11

IEC (International Electrotechnical Commission)

ENCLOSURES

- IEC uses numbers to denote a particular enclosure type
- The numbers follow the letters IP (Ingress Protection) in the motor description
- The first digit signifies, on a rating scale, how well-protected the motor is against entry of solid objects such as dust, wire, tools, or fingers
- The second digit signifies, on a rating scale, the motor's ability to protect against water entry

Common Enclosure Ratings

IP 22 - Open Dripproof Motors

IP 44 or 54 - Totally Enclosed (NEMA 12)

IP 45 - Weatherproof Motors

IP 55 - Washdown-Duty Motors

Common Motor Applications

IC 01 - NEMA Standard Open Motors

IC 40 (IC 410) - Totally Enclosed, Nonvented

IC 41 (IC 411) - Totally Enclosed, Fan-cooled

IC 48 (IC 418) - Totally Enclosed, Air Over

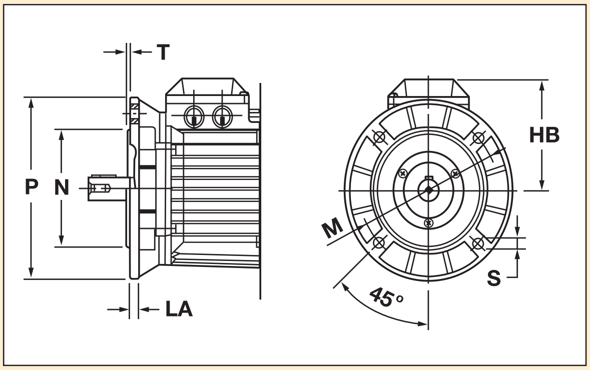
Efficiency Ratings

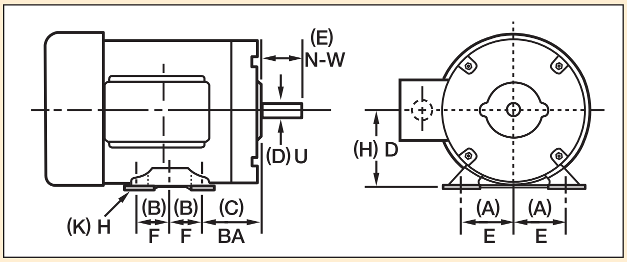
IEC uses the following ratings to designate motor efficiencies:

IE2 = Meets Epact levels

IE3 = Meets NEMA Premium

IE4 = Exceeds NEMA Premium





IEC FLANGE MOUNT MOTOR DIMENSIONS (mm)

Frame	Large Flange (B5) D-Flange							Small Flange (B14) C-Face						
	HB	LA	M	N	P	S	T	HB	LA	M	N	P	S	T
63 *	108	7	115	95	140	10	3	68	7	75	60	90	M5	2.5
63	108	7	130	110	160	10	3.5	—	—	—	—	—	—	—
71	120	7	130	110	160	10	3.5	120	9	85	70	105	M6	2.5
80	126	12	165	130	200	12	3.5	126	9	100	80	120	M6	3
90S	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
90L	139	12	165	130	200	12	3.5	139	9	115	95	140	M8	3
100L	170	11	215	180	250	15	4	170	14	130	110	160	M8	3.5
112	188	12	215	180	250	15	4	188	14	130	110	160	M8	3.5
132	213	12	265	230	300	15	4	215	14	165	130	200	M10	3.5

* M2AA63 can be supplied with shaft extension D=11, E=23, F=4, and GA=125mm, and DB=M4, if flange M=115mm.

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(56) †	56	45	35.5	5.8	9	36	20
63	63	50	40	7	11	40	23
42	66.7	44.5	44.5	7.1	9.5	52.4	28.6
(71)	71	56	45	7	14	45	30
48	76.2	54	34.9	8.7	12.7	63.5	38.1
(80)	80	62.5	50	10	19	50	40
56	88.9	61.9	38.1	8.7	15.9	69.9	47.6
(90S)	90	70	50	10	24	56	50
143T	88.9	69.8	50.8	8.7	22.2	57.2	57.2
(90L)	90	70	62.5	10	24	56	50
145T	88.9	69.8	63.5	8.7	22.2	57.2	57.2
(100L) †	100	80	70	12	28	63	60
(112S)	112	95	57	12	28	70	60
182T	114.3	95.2	57.2	10.7	28	70	69.9
(112M)	112	95	70	12	28	70	60
184T	114.3	95.2	68.2	10.7	28	70	69.9

IEC and NEMA DIMENSIONS AND FRAME COMPARISONS (mm)

(IEC) NEMA	(H) D	(A) E	(B) F	(K) H	(D) U	(C) BA	(E) N-W
(132S)	132	108	70	12	38	89	80
213T	133.4	108	69.8	10.7	34.9	89	85.7
(132M)	132	108	89	12	38	89	80
215T	133.4	108	88.8	10.7	34.9	89	85.7
(160M)*	160	127	105	15	42	108	110
254T	158.8	127	104.8	13.5	41.3	108	101.6
(160L)*	160	127	127	15	42	108	110
256T	158.8	127	127	13.5	41.3	108	101.6
(180M)*	180	139.5	120.5	15	48	121	110
284T	177.8	139.8	120.2	13.5	47.6	121	117.5
(180L)*	180	139.5	139.5	15	48	121	110
286T	177.8	139.8	139.8	13.5	47.6	121	117.5
(200M)*	180	159	133.5	19	55	133	110
324T	203.3	158.8	133.4	16.7	54	133	133.4
(200L)*	200	159	152.5	19	55	133	110
326T	203.2	158.8	152.4	16.7	54	133	133.4

* Shaft dimensions of these motors may vary among manufacturers. † No NEMA equal.

2015 Energy Conservation Standards For Small Electric Motors

2015 SMALL MOTOR LEGISLATION

Energy efficiency is becoming more important for electric motors used in industrial, commercial, and residential applications. The U.S. Department of Energy (DOE) has established new standards for certain types of small electric motors that will become effective on March 9th, 2015 (March 9th, 2017 for motors that require listing or certification). The motors governed under the small motor ruling include NEMA General Purpose two digit frames 42, 48, and 56, open construction, continuous duty, 1/4 horsepower up through 3 horsepower in 3-phase, capacitor start induction run and capacitor start capacitor run designs. The small motor rule also includes metric designs built in IEC frames 63, 71, or 80, and kilowatt ranges from .18 kW to 2.2 kW. See tables for standard efficiency levels.

Table I.1—Standard Levels for 3-Phase Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	67.5	69.5	65.6
0.33/0.25	71.4	73.4	69.5
0.5/0.37	75.3	78.2	73.4
0.75/0.55	81.7	81.1	76.8
1/0.75	82.5	83.5	77.0
1.5/1.1	83.8	86.5	84.0
2/1.5	—	86.5	85.5
3/2.2	—	86.9	85.5

Table I.2—Standard Levels for Capacitor-Start Induction-Run and Capacitor-Start Capacitor-Run Small Electric Motors

HP/kW	6-Pole (1200 RPM)	4-Pole (1800 RPM)	2-Pole (3600 RPM)
0.25/0.18	62.2	68.5	66.6
0.33/0.25	66.6	72.4	70.5
0.5/0.37	76.2	76.2	72.4
0.75/0.55	80.2	81.8	76.2
1/0.75	81.1	82.6	80.4
1.5/1.1	—	83.8	81.5
2/1.5	—	84.5	82.9
3/2.2	—	—	84.1

3-Phase Motor 2016 Final IHP (Integral HP) Rule

NEMA Premium

- Replaces Energy Independence and Security Act of 2007
- Takes effect June 1, 2016
- Almost all motors will be covered at Premium Efficiency levels NEMA MG1, Table 12-12 or Part 20, Table B (IE3)
- EISA 2007 Subtype 1 and II, 1-200 HP must now meet Table 12-12-NEMA Premium Efficient
- 56 Frame 3-phase Enclosed motors must now meet Table 12-12-NEMA Premium Efficient
- Custom 3-Phase motors must now meet Table 12-12-NEMA Premium Efficient

3-PHASE MOTORS COVERED UNDER IHP FINAL RULE

- Is a single speed induction motor
- Is rated for continuous duty (MG 1) operation or for duty type S1 (IEC)
- Contains a squirrel-cage (MG 1) or cage (IEC) rotor
- Operated on polyphase alternating current (AC) 60Hz sinusoidal line power
- Has 2-, 4-, 6-, or 8-pole configuration
- Is rated 600V or less
- Have a 3 or 4 digit NEMA frame size (or IEC metric equivalent), including: designs between 2 consecutive NEMA frame sizes (or IEC metric equivalent), or enclosed 56 NEMA frame size (or IEC metric equivalent)
- 2-digit frame size TENV and TEFC motors that are 1.0 HP and larger must also be in compliance.
- Between 1 and 500 HP (or kilowatt equivalent)
- Meets all performance requirements of NEMA design A, B, or C or IEC design N or H electric motor

NEMA Premium Nominal Full-Load Efficiency

Motor HP	Open Motors RPM 1200	Open Motors RPM 1800	Open Motors RPM 3600	Enclosed Motors RPM 1200	Enclosed Motors RPM 1800	Enclosed Motors RPM 3600
1	82.5	85.5	77.0	82.5	85.5	77.0
1½	86.5	86.5	84.0	87.5	86.5	84.0
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7½	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4
250	95.8	95.8	95.0	95.8	96.2	95.8
300	95.8	95.8	95.4	95.8	96.2	95.8
350	95.8	95.8	95.4	95.8	96.2	95.8
400	—	95.8	95.8	95.8	96.2	95.8
450	—	96.2	96.2	95.8	96.2	95.8
500	—	96.2	96.2	95.8	96.2	95.8

Motor Compliance Certification (CC) Numbers

The Department of Energy (DOE) has mandated energy efficiency levels for certain classes of 1- and 3-phase electric motors. For certain categories within these groups of energy efficient motors, a Compliance Certification (CC) number that is unique to a specific motor manufacturer, assigned by the DOE, must appear on the motor's nameplate. The CC number is listed in the Tech Spec section on Grainger.com® for affected motors.

Motor Compliance Certification (CC) Numbers

Dayton Brand	National Brand	
CC005A	CC001A	CC029A
CC029A	CC003A	—
CC030A	CC004A	—
CC060A	CC005A	—

Hazardous Location Motor Temperature Codes

In addition to identifying the Class, Group, and Division of the hazardous location motor, you must also obtain the temperature code or maximum surface temperature for the motor. This code or temperature indicates the maximum surface temperature for all conditions including burnout, overload, single phasing, and locked rotor. The maximum surface temperature or T-Code must be identified on the nameplate.

TEMPERATURE IDENTIFICATION NUMBERS

"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)		"T" Number (T-Code On Nameplate)	Max. Temp. (For All Conditions)	
T1	450°C	842°F	T3A	180°C	356°F
T2	300°C	572°F	T3B	165°C	329°F
T2A	280°C	536°F	T3C	160°C	320°F
T2B	260°C	500°F	T4	135°C	275°F
T2C	230°C	446°F	T4A	120°C	248°F
T2D	215°C	419°F	T5	100°C	212°F
T3	200°C	392°F	T6	85°C	185°F

National Electrical Code Explosive Atmosphere Classifications

Certain locations are hazardous because the atmosphere may contain gas, vapor, or dust in explosive quantities. The National Electrical Code (NEC) divides these locations into Classes and Groups according to the type of explosive agent which may be present. Listed are some of the agents in each classification. For a complete list, see NFPA (National Fire Protection Association) publication 497M.

Underwriters Laboratories tests motors and other devices for safety in explosive atmospheres, and publishes a list of those products that meet its standards for each Class and Group.

Use of UL Listed devices does not necessarily make an installation conform to the NEC or local codes. Consult Chapter 5 of the NEC, local building codes, OSHA requirements, and insurance inspectors for detailed data as to proper procedures. This catalog does not contain any motors designed for Class I, Groups A or B atmospheres.

CLASS I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl chloride, xylene

CLASS II

Group E: Aluminum, magnesium, and other metal dusts with similar characteristics

Group F: Carbon black, coke, or coal dust

Group G: Flour, starch, or grain dust

CLASS III

Easily ignitable fibers, such as rayon, cotton, sisal, hemp, cocoa fiber, oakum, excelsior, and other materials of similar nature

Motor Terminology

AC—Alternating Currents

Amb. (Ambient)—The temp. of the space around the motor.

Auto—Automatic

Bearings—Basic types:
- **Sleeve—**Preferred where low noise level is important, as on fan and blower motors. Unless otherwise stated, sleeve bearing motors listed herein can be mounted in any position, including shaft-up or shaft-down (all-position mounting).
- **Ball—**Used where higher load capacity is required or periodic lubrication is impractical. The 2 methods used to keep out dirt are: shields and seals.

CSA—Canadian Standards Association

DC—Direct Current

Enclosure—The motor's housing. Types:
- **Open Dripproof (ODP)—**Ventilation openings in endshields and shell placed so drops of liquid falling within 15° from vertical will not affect performance. Usually used indoors, in fairly clean locations.
- **Open Air-Over (OPAO)—**Motors intended for fan and blower service. Must be located in the driven fan blade's air stream to provide motor cooling.
- **Totally Enclosed Air-Over (TEAO)—** Air flow from driven or external device provides cooling air flow over the motor, but not airtight or waterproof.
- **Totally Enclosed Fan-Cooled (TEFC)—** Includes an external fan in a protective shroud, to blow cooling air over the motor, but not airtight or waterproof.
- **Totally Enclosed Nonventilated (TENV)—**Not equipped with an external cooling fan, but not airtight or waterproof. Depends on convection air for cooling.

Energy Efficient—Any motor that has improved efficiency performance above a standard design as determined by the manufacturer, i.e., Epact levels in compliance with NEMA Table 12-11, but does not qualify for a NEMA Premium designation and or a small motor energy legislation model because the motor cannot meet the Federal and/or NEMA nominal efficiency guidelines, will be categorized as "Energy Efficient."

FLA (Full Load Amps)—Line current (amperage shown on motor nameplate) drawn by a motor when operating at rated HP and voltage.

Hz (Hertz)—Frequency, in cycles per sec., of AC power; usually 60 Hz in USA, 50 Hz overseas.

HP (Horsepower)—The amount of work a motor can do. 1 HP equals 746 watts.

Imp.—Impedance

Ins. (Insulation)—In motors, usually classified by max. allowable operating temp.: Class A-105°C (221°F), Class B-130°C (266°F), Class F-155°C (311°F), Class H-180°C (356°F).

Man.—Manual

Max.—Maximum

MFD—Microfarad

μF—Microfarad

Min.—Minimum

Mtg. (Mounting)—Basic types
- **Bolted—**Frame is attached to motor with removable bolts.
- **C-Face or Flange—**Shaft end has a flat mounting surface, machined to standard dimensions, with holes to allow easy, secure mounting to driven equipment. Commonly used on jet pumps, oil burners, and gear reducers.
- **Cradle/Resilient**—Motor shell is isolated from base by vibration-absorbing material, such as rubber rings on the endshields, to reduce transmission of vibration to the driven equipment.
- **Rigid—**Motor solidly fastened to equipment through metal base that is welded to, or cast into, motor shell.
- **Stud—**Motor has bolts extending from front or rear, by which it is mounted. Often used on small, direct drive fans and blowers.
- **Yoke—**Tabs or ears are welded to motor shell to allow bolting of motor to a fan column/pedestal or bracket.

Nameplate RPM—The nominal speed at which an induction motor operates under rated load (HP) conditions.

NEMA—National Electrical Manufacturer's Association

NEMA Premium Efficient—Any 3-phase motor that meets NEMA MG1 Table 12-12 Nominal Premium Efficiency Levels for a particular HP, rpm, and enclosure type rating and is required to display a CC Number on the nameplate, as registered with the Department of Energy, or single-phase motor that meet EISA standards, i.e. small motor rule, that are not required to display a CC Number, but do have the NEMA logo on the nameplate will be categorized as "NEMA Premium Efficient".

Nom.—Nominal

OC—On Center

PE—Pump end

Premium Efficient—For 2-digit open enclosure, single and 3-phase motors that meet EISA standards, i.e. small motor rule, that are not required to display a CC Number on the nameplate, will be categorized as "Premium Efficient".

Prot.—Protection

PSC—Permanent Split Capacitor

Resil.—Resilient

Rev.—Reversible

Rotation—Basic types:
- **CCW—Counterclockwise**
- **CW—Clockwise**
- **CW/CCW—Reversible**
- **CWSE—Clockwise Facing Shaft End**
- **CWLE—Clockwise Facing Lead End**
- **CCWSE—Counterclockwise Facing Shaft End**
- **CCWLE—Counterclockwise Facing Lead End**

RPM—Revolutions per Minute

SF (Service Factor)—A measure of the reserve margin built into a motor. Motors rated over 1.0 SF have more than normal margin, and are used where unusual conditions such as occasional high or low voltage, momentary overloads, etc. are likely to occur.

Severe Duty—A totally enclosed motor with extra protection (shaft slinger, gasketed terminal box) to resist entry of contaminants. Used in extra dirty, damp or other nonhazardous contaminated environments.

Syn.—Synchronous

Standard Efficient—Any motor not required to meet any specific called out nominal efficiency specifications including federal guidelines will be categorized as "Standard Efficient".

Temperature Rise—The amount by which a motor, operating under rated conditions, is hotter than its surroundings.

Thermal Protection—A temp. sensing device built into the motor that shuts off the motor if the temp. becomes excessive due to failure-to-start or over-loading. Basic types:
- **Auto (Automatic-Reset)—**After motor cools, thermal protector automatically connects motor to power.
- **WARNING: Should not be used where unexpected restarting would be hazardous.**
- **Imp (Impedance Protected)—**Motor is designed so that it will not burn out in less than 15 days under locked rotor (stalled) conditions, in accordance with UL standard No. 519.
- **Man. (Manual-Reset)—**An external button must be pushed to reconnect power to motor. Preferred where unexpected restarting would be hazardous, as on saws, conveyors, compressors, etc.
- **T-Stat (Thermostat)—**A temperature-sensing device installed inside the motor with separate leads brought out for connection into motor starter coil (control) circuit. Under failure-to-start or overload conditions, thermostat contacts will open. Thermostat contacts will reclose automatically when motor cools.

Torque—Twist, or turning ability, as applied to a shaft. Measured in foot-pounds (ft.-lb.), inch-pounds (in.-lb.), ounce-feet (oz.-ft.) or ounce-inches (oz.-in.).
- **Breakdown—**The maximum torque a motor will produce while running, without an abrupt drop in speed and power.
- **Locked Rotor or Starting—**The maximum torque produced at initial start.

Insulation Classes and Temperature Rise

Heat is a byproduct of the operation of a motor. A motor's internal operating temp. depends on its design.

Insulation classes are designated to meet the requirements of the motor design. The insulation class is determined by the ability of each insulation system to handle a specified amount of heat:

Class A: 105°C (221°F)
Class B: 130°C (266°F)
Class F: 155°C (311°F)
Class H: 180°C (356°F)

A newer design of general purpose 3-phase motors has been introduced to promote longer service life. These motors feature a higher insulation class (primarily Class F) with a lower temp. rise (primarily Class B rise). This allows for about 25°C reserve thermal capacity in the motor. The reserve thermal capacity is what helps maintain the integrity of the insulation and lengthen motor life.

Open Dripproof with Cradle Base-Mount 5K283

Totally Enclosed Fan-Cooled with Rigid Base-Mount 6XJ06

Split-Phase NEMA Frame Cradle & Rigid Base-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

These motors power fans, pumps, blowers, small conveyors, and other low- to medium-torque applications.

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.	
1-Speed															
Open Dripproof with Cradle Base-Mount															
1⁄12	1,725	42	None	115V AC	3.7	1.4	F	32.8 %	⅜ in	1 ¼ in	6 ⅞ in	Dayton	6K402	**6K402**	‡‡
⅙	1,725	48Z	None	115V AC	4.2	1.35	B	43.4 %	½ in	1 ⅞ in	9 5⁄16 in	Dayton	6XH64	**6XH64**	‡
	1,140	48Z	None	115V AC	4.5	1.35	B	50 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	6XH78	**6XH78**	†‡
	1,140	56Z	None	115V AC	4.5	1.35	B	50 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	5K559	**5K559**	††
	850	56	None	115V AC	7.0	1.35	F	40.3 %	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	6XH80	**6XH80**	**
¼	1,725	48	None	115V AC	5.7	1	B	52.5 %	½ in	1 9⁄16 in	9 1⁄16 in	Marathon	048S17D2042	**19YW03**	
	1,725	48Z	Auto	115V AC	5.3	1.35	B	52 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	6K718	**6K718**	†
	1,725	48Z	Auto	115V AC	5.3	1	B	52.5 %	½ in	1 15⁄16 in	9 ¾ in	Marathon	048S17D2104	**19YW05**	
	1,725	48Z	None	230V AC	2.5	1.35	B	53.7 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	6XH61	**6XH61**	
	1,725	48Z	None	115V AC	5.3	1.35	B	52 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	6XH65	**6XH65**	†‡
	1,725	56Z	None	115V AC	5.3	1.35	B	52 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	5K280	**5K280**	‡††
	1,140	56	None	115V AC	5.5	1.35	B	53.6 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	6XJ57	**6XJ57**	**
	1,140	56	None	208-230V AC	2.9-2.7	1.35	B	58.7 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	24C177	**24C177**	
	850	56	None	115V AC	6.9	1.25	B	52 %	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	6XH73	**6XH73**	**
⅓	3,450	48Z	None	115V AC	5.4	1.35	B	53.3 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	5K586	**5K586**	†
	1,725	48Y	Auto	115V AC	6.6	1	B	57.5 %	½ in	1 ⅞ in	9 ¾ in	Marathon	048S17D2105	**19YW12**	
	1,725	48Z	Auto	115V AC	7.0	1.35	B	54.3 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	5K601	**5K601**	†
	1,725	48Z	Auto	230V AC	3.5	1.35	B	54.9 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	5K602	**5K602**	†
	1,725	48Z	None	115V AC	7.0	1.35	B	54.3 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	5K917	**5K917**	
	1,725	48Z	None	230V AC	3.5	1.35	B	54.9 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	6XH71	**6XH71**	†
	1,725	56Z	None	115V AC	7.0	1.35	B	54.3 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	5K534	**5K534**	††
	1,140	56	None	115/230V AC	6.7/3.4	1.35	B	60.3 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	6XH74	**6XH74**	**
½	3,450	48Z	Auto	115V AC	7.8	1.25	B	57.5 %	½ in	1 ⅞ in	10 ⅜ in	Dayton	6K844	**6K844**	†
	1,725	48Z	Auto	115V AC	9.2	1	B	65 %	½ in	1 ⅞ in	10 ¼ in	Marathon	048S17D2106	**19YW13**	
	1,725	48Z	None	115V AC	8.9	1.25	F	54.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	6K764	**6K764**	†
	1,725	56	None	115V AC	8.9	1.25	F	58.8 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	5K283	**5K283**	
	1,725	56	None	230V AC	4.6	1.25	B	59.7 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	5K288	**5K288**	
	1,725	56Z	None	115V AC	8.9	1.25	F	54.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	4K913	**4K913**	
	1,425	56	Auto	110/220V AC	9.2/4.6	1	B	66 %	⅝ in	1 ⅞ in	10 ⅞ in	Marathon	5KH46JN0329X	**19YW38**	
¾	1,725	56	None	115V AC	11.2	1	B	66 %	⅝ in	1 ⅞ in	10 ¾ in	Marathon	5KH39QN9687	**19YW37**	
	1,725	56	None	115V AC	11.3	1.25	B	63.6 %	⅝ in	1 ⅞ in	11 5⁄16 in	Dayton	6XJ13	**6XJ13**	
Open Dripproof with Rigid Base-Mount															
⅙	1,725	48	Auto	115V AC	3.9	1.35	B	48.5 %	½ in	1 ½ in	8 ⅞ in	Marathon	5KH39QN9537X	**19YU18**	
¼	1,725	48	Auto	115V AC	5.1	1.35	B	52.5 %	½ in	1 ½ in	8 ⅞ in	Marathon	5KH39QN9686X	**19YU20**	
	1,725	48Z	Auto	110/220V AC	4.2/2.1	1.35	B	59.5 %	½ in	1 ⅞ in	9 ½ in	Dayton	6XJ46	**6XJ46**	*
	1,725	48Z	Auto	115V AC	5.1	1.15	B	50.5 %	½ in	2 ¼ in	8 ¾ in	Marathon	5KH32DN612X	**19YU47**	
	1,725	48Z	None	115V AC	5.3	1.35	B	52 %	½ in	2 ¼ in	9 ¾ in	Dayton	6XJ35	**6XJ35**	
	1,725	56Z	None	115V AC	5.9	1.35	B	52 %	½ in	1 ⅞ in	9 ½ in	Dayton	5K279	**5K279**	
⅓	1,725	48	Auto	115V AC	6.6	1	B	57.5 %	½ in	1 9⁄16 in	9 5⁄16 in	Marathon	048S17D2113	**19YW44**	
	1,725	48Z	None	115V AC	7.0	1.35	B	54.3 %	½ in	2 ¼ in	9 ¾ in	Dayton	6XH45	**6XH45**	
	1,725	56Z	Auto	115V AC	7.0	1.35	B	54.3 %	½ in	1 ⅞ in	9 ½ in	Dayton	5K412	**5K412**	
	1,725	56Z	None	115V AC	7.0	1.35	B	54.3 %	½ in	1 ⅞ in	9 ½ in	Dayton	5K281	**5K281**	††
½	1,725	48	None	115V AC	8.3	1	B	62 %	½ in	1 ½ in	9 11⁄16 in	Marathon	5KH36LN504	**19YW63**	
	1,725	48Z	None	115V AC	8.9	1.25	F	58.8 %	½ in	1 ⅞ in	9 15⁄16 in	Dayton	5K984	**5K984**	
	1,725	56	Manual	115V AC	8.9	1.25	F	58.8 %	⅝ in	1 ⅞ in	9 15⁄16 in	Dayton	5K597	**5K597**	
	1,725	56Z	None	115V AC	8.9	1.25	F	58.8 %	⅝ in	2 ¼ in	10 5⁄16 in	Dayton	6XH82	**6XH82**	
	1,725	56Z	None	115V AC	8.1	1.15	B	65.4 %	⅝ in	2 ¼ in	10 ⅞ in	Marathon	5KH36JN769	**20JX20**	
¾	1,725	56Z	None	115V AC	11.3	1.25	B	63.6 %	⅝ in	2 ¼ in	11 ¼ in	Dayton	6XJ24	**6XJ24**	
Totally Enclosed Fan-Cooled with Cradle Base-Mount															
⅛	1,140	48Z	None	115V AC	3.5	1	B	50 %	½ in	1 ⅞ in	11 1⁄16 in	Dayton	6XJ01	**6XJ01**	‡
⅙	1,725	48Z	None	115V AC	3.2	1	B	54.1 %	½ in	1 ⅞ in	11 1⁄16 in	Dayton	6XJ03	**6XJ03**	
	1,140	48Z	None	115V AC	4.4	1	B	50.8 %	½ in	1 ⅞ in	11 9⁄16 in	Dayton	6XJ04	**6XJ04**	‡
¼	1,725	48Z	None	115V AC	4.9	1	B	55.2 %	½ in	1 ⅞ in	11 in	Dayton	6K517	**6K517**	‡
	1,140	56	None	115/230V AC	5.8/2.9	1	B	54.1 %	⅝ in	1 ⅞ in	12 in	Dayton	6XJ14	**6XJ14**	‡
⅓	1,725	48Z	None	115V AC	5.9	1	B	61.4 %	½ in	1 ⅞ in	11 in	Dayton	6K572	**6K572**	
	1,725	56	None	115V AC	5.9	1	B	63.9 %	⅝ in	1 ⅞ in	11 in	Dayton	6XJ10	**6XJ10**	#
½	1,725	56	None	115V AC	8.0	1	F	63.9 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	6XJ11	**6XJ11**	#
	1,140	56	None	115V AC	8.7	1	B	63.4 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	6XJ56	**6XJ56**	#
Totally Enclosed Fan-Cooled with Rigid Base-Mount															
⅙	1,725	48Z	None	115V AC	3.2	1	B	54.1 %	½ in	1 ⅞ in	11 in	Dayton	6XJ06	**6XJ06**	
	1,140	48Z	None	115V AC	4.4	1	B	50.8 %	½ in	1 ⅞ in	11 9⁄16 in	Dayton	6XH99	**6XH99**	
¼	1,725	48	Auto	115V AC	5.1	1	B	55.7 %	½ in	1 ½ in	9 15⁄16 in	Marathon	5KH32FN3123X	**44D133**	
	1,725	48Z	None	115V AC	4.9	1	B	55.2 %	½ in	1 ⅞ in	10 ⅝ in	Dayton	6XJ07	**6XJ07**	
⅓	3,450	48	None	115V AC	5.4	1	A/B	68.1 %	½ in	1 ½ in	10 9⁄16 in	U.S. Motors	T13B1N4	**55ML65**	
½	1,725	56	None	115V AC	8.0	1	F	63.9 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	5K596	**5K596**	
2-Speed															
Open Dripproof with Cradle Base-Mount															
⅙, 1⁄18	1,725/1,140	48Z	None	115V AC	4.0/2.4	1.35	B	46.8 %	½ in	1 ⅞ in	9 13⁄16 in	Dayton	6XH57	**6XH57**	‡
¼, ⅛	1,725/1,140	48Z	None	115V AC	4.6/4.3	1.35	B	52.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	5K671	**5K671**	†
	1,725/1,140	56Z	None	115V AC	4.9/3.3	1.35	B	53 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	5K574	**5K574**	††
⅓, ⅑	1,725/1,140	48Z	None	115V AC	5.9/3.4	1.35	B	56.7 %	½ in	1 ⅞ in	10 13⁄16 in	Dayton	6XH75	**6XH75**	†‡
	1,725/1,140	56	None	115V AC	6.1/3.5	1.35	B	59 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	6XH76	**6XH76**	**
⅓, ⅙	1,725/1,140	56Z	None	115V AC	6.1/3.8	1.35	B	59 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	5K554	**5K554**	††
½, ⅙	1,725/1,140	56	None	115V AC	7.5/4.9	1.25	B	63.9 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	6XH67	**6XH67**	**
½, ¼	1,725/1,140	56	None	115V AC	7.5/5.4	1.25	B	63.9 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	5K423	**5K423**	
	1,725/1,140	56	None	230V AC	3.8/2.8	1.25	B	63.7 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	5K556	**5K556**	
½, ⅙	1,725/1,140	56	None	230V AC	3.8/2.6	1.25	B	63.8 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	6XH72	**6XH72**	
Totally Enclosed Fan-Cooled with Cradle Base-Mount															
¼, 1⁄12	1,725/1,140	48Z	None	115V AC	4.7/3.3	1	F	54.5 %	½ in	1 ⅞ in	11 ⅜ in	Dayton	6XJ05	**6XJ05**	
⅓, ⅒	1,725/1,140	56	None	115V AC	5.5/3.0	1	B	62.5 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	6XJ15	**6XJ15**	#
Totally Enclosed Fan-Cooled with Rigid Base-Mount															
½, ¼	1,725/1,140	56	None	115V AC	7.2/5.0	1	B	64 %	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	5K618	**5K618**	

** 60/50 Hz. † Cradle base has 48/56 mounting holes. ‡ Cradle with studs in a 3⅝" square pattern. # Cradle with studs in a 4 1⁄16 square pattern. ** Cradle with studs in a 4 3⁄16" square pattern. †† Supplied with ⅝"-dia. shaft bushing. ‡‡ Supplied with a relay switch instead of a centrifugal switch.*

Capacitor-Start NEMA Frame Cradle & Rigid Base-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Provide additional power during startup for medium- to high-torque requirements in conveyor, shop tool, ventilation, or pump applications.

Open Dripproof with Rigid Base-Mount 5K675

Totally Enclosed Fan-Cooled with Cradle Base-Mount 6K478

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
1-Speed												
Open Dripproof with Cradle Base-Mount												
¼	1,725	48	Auto	115/230V AC	5.2/2.6	1.35	½ in	1 ½ in	9 9⁄16 in	Marathon	5KC35JN7X	**46N376**
	1,725	48	None	115/230V AC	5.2/2.6	1.35	½ in	1 ½ in	9 9⁄16 in	Marathon	5KC35JN7	**46N375**
⅓	1,725	48	Auto	115/208-230V AC	6.0/3.2-3.0	1.35	½ in	1 ½ in	10 in	Marathon	5KC36LN26X	**46N357**
	1,725	48	Auto	115/230V AC	7.0/3.5	1	½ in	1 9⁄16 in	9 5⁄16 in	Marathon	048C17D2029	**19YW10**
	1,725	48	None	115/208-230V AC	6.0/3.2-3.0	1.35	½ in	1 ½ in	10 in	Marathon	5KC36LN26	**46N356**
	1,725	48	None	115/230V AC	7.0/3.5	1	½ in	1 9⁄16 in	9 5⁄16 in	Marathon	048C17D2028	**19YW09**
	1,725	56	Auto	115/208-230V AC	6.0/3.2-3.0	1.35	⅝ in	1 ⅞ in	10 5⁄16 in	Marathon	5KC36LN1X	**46N377**
	1,725	56	None	115/208-230V AC	6.0/3.2-3.0	1.35	⅝ in	1 ⅞ in	10 5⁄16 in	Marathon	5KC36LN1	**46N354**
	1,140	56	Auto	115/230V AC	8.6/4.3	1.35	⅝ in	1 ⅞ in	11 ⅜ in	Marathon	5KC49PN6051X	**46N366**
	1,140	56	None	115/230V AC	8.6/4.3	1.35	⅝ in	1 ⅞ in	11 ⅜ in	Marathon	5KC49PN6051	**46N365**
½	3,450	48	Auto	115/208-230V AC	8.2/4.1-3.9	1.25	½ in	1 ½ in	11 in	Marathon	5KC39QN3220X	**46N380**
	1,725	48	Auto	115/230V AC	8.2/4.1	1	½ in	1 ½ in	10 in	Marathon	5KC36MN27X	**19YW22**
	1,725	56	Auto	115/208-230V AC	8.0/4.1-4.0	1.25	⅝ in	1 ⅞ in	10 5⁄16 in	Marathon	056C17D2072	**46N369**
	1,725	56	Auto	115/208-230V AC	8.6/4.3-4.1	1.25	⅝ in	1 ⅞ in	10 ⅜ in	Marathon	5KC49GN0022X	**46N386**
	1,725	56	None	115/208-230V AC	8.8/4.4-4.2	1.25	⅝ in	1 ⅞ in	10 ⅜ in	Marathon	5KC49GN0001	**46N385**
	1,725	56	None	115/230V AC	9.1/4.5	1	⅝ in	1 ⅞ in	10 ¼ in	Marathon	056C17D2097	**19YW16**
	1,725	56Z	Auto	115/230V AC	9.1/4.5	1	⅝ in	2 in	10 ¼ in	Marathon	056C17D2099	**19YW17**
	1,140	56	None	115/230V AC	9.4/4.7	1.25	⅝ in	1 ⅞ in	12 ¾ in	Marathon	5KC48UN6052	**2K516**
¾	3,450	56	Auto	115/208-230V AC	10.0/5.0-4.9	1.25	⅝ in	1 ⅞ in	11 5⁄16 in	Marathon	5KC38NN410X	**46N378**
	1,725	56	Auto	115/208-230V AC	10.0/5.2-5.0	1.25	⅝ in	1 ⅞ in	10 ¾ in	Marathon	056C17D2074	**46N371**
	1,725	56	Auto	115/230V AC	10.4/5.2	1	⅝ in	2 in	12 in	Marathon	056C17D2061	**19YW15**
	1,725	56	Auto	115/230V AC	13.2/6.6	1	⅝ in	1 ⅞ in	10 ¾ in	Marathon	5KC46LN0254X	**19YW23**
	1,725	56	None	115/208-230V AC	10.0/5.2-5.0	1.25	⅝ in	1 ⅞ in	10 ¾ in	Marathon	056C17D2073	**46N370**
	1,725	56	None	115/208-230V AC	13.2/6.6-6.2	1.25	⅝ in	1 ⅞ in	10 ¾ in	Marathon	5KC46LN0158	**46N383**
	1,725	56	None	115/230V AC	10.4/5.2	1	⅝ in	2 in	12 in	Marathon	056C17D2060	**19YW14**
	1,425	56	Auto	110/220V AC	12.2/6.1	1.25	⅝ in	1 15⁄16 in	11 ⅜ in	Marathon	5KC49NN0224X	**46N363**
1	3,450	56	Auto	115/208-230V AC	12.0/6.2-6.0	1.15	⅝ in	1 ⅞ in	12 ¼ in	Marathon	056C34D2106	**46N374**
	3,450	56	Auto	115/208-230V AC	13.4/6.7-6.6	1.25	⅝ in	1 ⅞ in	11 ⅞ in	Marathon	5KC39RN383X	**46N381**
	1,725	56	Auto	115/208-230V AC	14.7/7.4-7.2	1.15	⅝ in	1 ⅞ in	11 ⅜ in	Marathon	5KC49PN0164X	**46N388**
	1,725	56	Auto	115/230V AC	13.6/6.8	1	⅝ in	1 15⁄16 in	11 ⅜ in	Marathon	056C17D5340	**19YW19**
	1,725	56	None	115/208-230V AC	13.6/6.8-6.7	1.15	⅝ in	1 ⅞ in	11 ⅜ in	Marathon	5KC49PN0155	**46N387**
	1,725	56	None	115/230V AC	13.6/6.8	1	⅝ in	1 15⁄16 in	11 ⅜ in	Marathon	056C17D5339	**19YW18**
1 ½	1,725	56H	None	115/208-230V AC	18.0/9.3-9.0	1.15	⅝ in	1 ⅞ in	12 ⅞ in	Marathon	056C17D5347	**46N394**
	1,725	145T	None	115/208-230V AC	18.0/9.3-9.0	1.15	⅞ in	2 ¼ in	13 ¼ in	Marathon	145TCDR5331	**46N396**
	1,725	145T	None	115/208-230V AC	19.2/10.0-9.6	1.15	⅞ in	4 ¼ in	—	U.S. Motors	D32C2J149	**55MM31** ‡
Open Dripproof with Rigid Base-Mount												
⅓	3,450	48	Auto	115/208-230V AC	4.4/2.2-2.2	1.35	½ in	1 ½ in	10 1⁄16 in	Dayton	5UKC6	**5UKC6**
	1,725	48	None	115/230V AC	7.0/3.5	1	½ in	1 9⁄16 in	9 5⁄16 in	Marathon	048C17D2023	**19YW39**
½	3,450	56	Auto	115/208-230V AC	8.4/4.2-3.8	1.25	⅝ in	2 in	10 ¾ in	Dayton	5UKC8	**5UKC8**
	1,730	48	None	115/208-230V AC	4.9/3.0-2.4	1.25	½ in	1 ½ in	10 ¼ in	Weg	.5018OT1B48-S	**52XR15** ‡
	1,725	56	None	115/230V AC	9.1/4.5	1	⅝ in	1 ⅞ in	10 ¼ in	Marathon	056C17D2098	**19YW50**
¾	1,725	56	None	115/230V AC	10.4/5.2	1	⅝ in	2 in	12 in	Marathon	056C17D2054	**19YW46**
1	1,750	182	None	115/230V AC	14.4/7.2	1.25	⅞ in	2 ¼ in	12 ¾ in	Dayton	5K480	**5K480**
	1,725	56	None	115/230V AC	13.6/6.8	1	⅝ in	2 5⁄16 in	10 15⁄16 in	Marathon	056C17D5319	**19YW51**
	1,725	143T	None	115/208-230V AC	14.8/7.5-7.3	1.25	⅞ in	2 ¼ in	12 ¼ in	Dayton	6K825	**6K825** †
	1,725	143T	None	115/208-230V AC	13.4/6.7-6.7	1.15	⅞ in	2 ¼ in	12 ⅜ in	Marathon	143C17DRR40001A1	**482R57**
	1,165	182T	None	115/230V AC	15.6/7.8	1.15	1 ⅛ in	2 13⁄16 in	14 3⁄16 in	Marathon	182TCDW17084	**48UU52**
1 ½	3,450	143T	None	115/208-230V AC	18.6/9.8-9.3	1.15	⅞ in	2 ¼ in	12 ¼ in	Dayton	6K630	**6K630**
	1,750	184	None	115/230V AC	22.0/11.0	1.15	⅞ in	2 ¼ in	13 ¼ in	Dayton	5K481	**5K481**
	1,725	145T	None	115/208-230V AC	19.2/10.0-9.6	1.15	⅞ in	2 5⁄16 in	13 ¼ in	Dayton	6K826	**6K826**
2	1,740	213	None	115/230V AC	24.6/12.3	1.15	1 ⅛ in	3 in	15 in	Dayton	5K482	**5K482**
	1,730	182T	None	115/230V AC	23.2/11.6	1.15	1 ⅛ in	2 ¾ in	14 ¾ in	Dayton	5K953	**5K953** †
3	3,540	182T	None	115/230V AC	32.0/16.0	1.15	1 ⅛ in	2 ¾ in	17 ¼ in	Dayton	6K632	**6K632**
	1,735	184T	None	115/230V AC	32.0/16.0	1.15	1 ⅛ in	2 ¾ in	15 ¾ in	Dayton	5K675	**5K675**
	1,725	184T	None	115/230V AC	32/16	1.15	1 ⅛ in	2 ¾ in	15 in	Baldor Electric	L1408T	**38G365**
Totally Enclosed Fan-Cooled with Cradle Base-Mount												
¼	3,450	48Z	Auto	115/230V AC	5.2/2.6	1	½ in	1 ⅞ in	12 in	Dayton	5PHA0	**5PHA0**
	3,450	56	Auto	115/230V AC	5.2/2.6	1	⅝ in	1 ⅞ in	12 in	Dayton	5PHA1	**5PHA1**
	1,725	48Z	None	115/230V AC	5.3/2.7	1	½ in	1 ⅞ in	11 ½ in	Dayton	6XJ08	**6XJ08**
	1,725	56	Auto	115/230V AC	5.3/2.7	1	⅝ in	1 ⅞ in	11 ½ in	Dayton	5K410	**5K410**
⅓	3,450	56	Auto	115/230V AC	5.7/2.9	1	⅝ in	1 ⅞ in	12 in	Dayton	5PHA3	**5PHA3**
	1,725	56	Auto	115/230V AC	5.8/2.9	1	⅝ in	1 ⅞ in	11 ½ in	Dayton	5K411	**5K411**
	1,140	56	Auto	115/230V AC	6.3/3.2	1	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	5PHA4	**5PHA4**
½	3,450	56	Auto	115/230V AC	8.7/4.4	1	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	5PHA5	**5PHA5**
	1,725	56	Auto	115/230V AC	10.1/5.1	1	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	6K477	**6K477**
	1,140	56	Auto	115/230V AC	8.5/4.2	1	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	5PHA6	**5PHA6**
¾	3,450	56	Auto	115/230V AC	10.1/5.1	1	⅝ in	1 ⅞ in	12 13⁄16 in	Dayton	5PHA7	**5PHA7**
	1,725	56	Auto	115/230V AC	12.2/6.1	1	⅝ in	1 ⅞ in	12 ⅞ in	Dayton	6K478	**6K478**
1	3,450	56	Auto	115/230V AC	14.5/7.3	1	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	5PHA9	**5PHA9**
	1,725	56	Auto	115/230V AC	13.1/6.6	1	⅝ in	1 ⅞ in	12 13⁄16 in	Dayton	6K810	**6K810**
Totally Enclosed Fan-Cooled with Rigid Base-Mount												
¼	1,725	48	Auto	115/208-230V AC	5.6/2.8-2.7	1	½ in	1 ½ in	10 ½ in	Dayton	5K191	**5K191** †
	1,725	56	Auto	115/208-230V AC	5.6/2.8-2.7	1.15	⅝ in	1 ⅞ in	11 in	Dayton	5K263	**5K263** †
	1,725	56	Manual	115/208-230V AC	4.2/2.1-2.1	1.15	⅝ in	1 ⅞ in	10 ¼ in	Marathon	056C17F2052	**44D107**
	1,725	56	None	115/208-230V AC	5.6/2.8-2.7	1.15	⅝ in	1 ⅞ in	11 in	Dayton	5K262	**5K262** †
	1,725	56	None	115/230V AC	5.4/2.7	1	⅝ in	1 ⅞ in	10 ⅜ in	Marathon	5KC32GN19	**44D113**
	1,140	56	None	115/208-230V AC	6.9/3.4-3.0	1.15	⅝ in	1 15⁄16 in	11 ⅜ in	Dayton	5UKE5	**5UKE5** †

** 60/50Hz. † Supplied with conduit box. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

CONTINUED

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

CONTINUED

Capacitor-Start NEMA Frame Cradle & Rigid Base-Mount Motors

Dayton · marathon Motors · US Motors · WEG · 2015 Small Motor Legislation

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
1-Speed (Cont.)												
Totally Enclosed Fan-Cooled with Rigid Base-Mount (Cont.)												
⅓	1,725	48	Auto	115/208-230V AC	6.6/3.3-3.0	1.15	½ in	1 11/16 in	10 ¼ in	Dayton	5K192	**5K192**
	1,725	48	None	115/208-230V AC	6.6/3.3-3.3	1	½ in	1 ½ in	10 ¼ in	Dayton	5UKE7	**5UKE7** †
	1,725	56	Auto	115/208-230V AC	7.0/3.5-3.3	1.15	⅝ in	1 ⅞ in	10 ⅝ in	Dayton	5K121	**5K121**
	1,725	56	Auto	115/230V AC	6.0/3.0	1.15	⅝ in	1 ⅞ in	10 ⅞ in	Marathon	5KC35MN43X	**44D119**
	1,725	56	Manual	115/208-230V AC	6.6/3.3-3.0	1.15	⅝ in	1 ⅞ in	11 in	Dayton	5UKE8	**5UKE8** †
	1,725	56	None	115/208-230V AC	6.0/3.0-3.0	1.15	⅝ in	1 ⅞ in	11 in	Dayton	4K936	**4K936**
	1,140	56	None	115/208-230V AC	6.8/3.4-3.4	1	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	5K502	**5K502** †
	1,140	56	None	115/208-230V AC	6.8/3.4-3.4	1.15	⅝ in	1 ⅞ in	11 ⅜ in	U.S. Motors	T13C3J	**55MM25** ‡
½	3,450	56	Manual	115/208-230V AC	8.0/4.0-3.8	1	⅝ in	1 ⅞ in	11 9/16 in	Dayton	6K184	**6K184** †
	3,450	56	Manual	115/208-230V AC	8.0/4.0-3.8	1.15	⅝ in	1 ⅞ in	11 9/16 in	U.S. Motors	T12CM1J	**55MM24** ‡
	3,450	56	None	115/208-230V AC	8.6/4.4-4.1	1	⅝ in	2 5/16 in	11 13/16 in	Dayton	5UKF2	**5UKF2** †
	1,725	48	Auto	115/208-230V AC	8.5/4.3-4.2	1	½ in	1 ½ in	11 1/16 in	Dayton	5K193	**5K193** †
	1,725	48	None	115/208-230V AC	8.2/4.1-4.1	1	½ in	1 ½ in	11 in	Dayton	6K177	**6K177**
	1,725	48	None	115/208-230V AC	9.0/4.5-4.3	1.15	½ in	1 ½ in	11 ¼ in	U.S. Motors	T12C2J4	**55MM08** ‡
	1,725	56	Auto	115/208-230V AC	9.0/4.5-4.3	1.15	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	6K122	**6K122**
	1,725	56	Manual	115/208-230V AC	9.0/4.5-4.3	1.15	⅝ in	1 ⅞ in	11 in	Dayton	6K637	**6K637** †
	1,725	56	None	115/208-230V AC	9.0/4.5-4.3	1.15	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	6K937	**6K937**
	1,140	56	None	115/230V AC	9.4/4.7	1.15	⅝ in	1 ⅞ in	12 15/16 in	Marathon	5KC49UN6065	**44D130**
	1,140	56	None	115/208-230V AC	10.4/5.2-5.1	1.15	⅝ in	1 ⅞ in	12 ⅜ in	U.S. Motors	T12C3J	**55MM01**
¾	3,450	48	None	115/208-230V AC	11.1/5.6-5.4	1	½ in	1 ½ in	12 in	Dayton	5UKF4	**5UKF4** †
	3,450	56	Auto	115/208-230V AC	10.4/5.3-5.2	1.15	⅝ in	1 ⅞ in	11 15/16 in	Dayton	6K483	**6K483**
	3,450	56	Manual	115/208-230V AC	10.4/5.3-5.2	1	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	6K358	**6K358** †
	3,450	56	Manual	115/208-230V AC	10.4/5.3-5.2	1.15	⅝ in	4 ¼ in	11 ⅞ in	U.S. Motors	T34CM1J	**55MM48** ‡
	3,450	56	None	115/208-230V AC	10.4/5.3-5.2	1.15	⅝ in	1 ⅞ in	11 ⅞ in	U.S. Motors	T34C1J	**55MM15** ‡
	1,725	56	Auto	115/208-230V AC	11.4/5.7-5.7	1.15	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	6K123	**6K123**
	1,725	56	Auto	115/230V AC	11.0/5.5	1	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KC46PN0015X	**44D126**
	1,725	56	Manual	115/208-230V AC	11.4/5.7-5.7	1.15	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	6K639	**6K639** †
	1,725	56	None	115/208-230V AC	11.4/5.7-5.7	1.15	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	6K938	**6K938** †
1	3,450	56	Auto	115/208-230V AC	13.6/6.9-6.8	1	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	6K484	**6K484** †
	3,450	56	Auto	115/230V AC	13.0/6.5	1.15	⅝ in	1 ⅞ in	12 7/16 in	Marathon	5KC49NN2130X	**44D170**
	3,450	56	Manual	115/208-230V AC	13.6/6.9-6.8	1	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	5K960	**5K960**
	3,450	56	Manual	115/208-230V AC	13.6/6.9-6.8	1.15	⅝ in	1 ⅞ in	12 ⅜ in	U.S. Motors	T1CM1J	**617P61**
	3,450	56	None	115/208-230V AC	13.6/6.9-6.8	1	⅝ in	1 ⅞ in	12 7/16 in	Dayton	5UKF7	**5UKF7** †
	3,450	56	None	115/208-230V AC	12.4/6.7-6.2	1.15	⅝ in	2 ⅜ in	12 5/16 in	Marathon	056C34F5310	**44D141**
	1,740	182	None	115/230V AC	13.8/6.9	1	⅞ in	2 ¾ in	14 ⅛ in	Dayton	5K485	**5K485**
	1,725	56	Auto	115/230V AC	13.2/6.6	1	⅝ in	1 ⅞ in	12 15/16 in	Marathon	5KC49TN0034X	**44D163**
	1,725	56	None	115/230V AC	13.2/6.6	1.15	⅝ in	1 ⅞ in	12 15/16 in	Marathon	5KC49TN0034	**44D162**
	1,725	56H	Manual	115/208-230V AC	14.0/7.0-6.9	1.15	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	6K640	**6K640**
	1,725	56H	None	115/208-230V AC	14.0/7.0-6.9	1.15	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	1K065	**1K065**
	1,725	56HZ	Auto	115/208-230V AC	14.0/7.0-6.9	1.15	⅞ in	2 ¼ in	12 ¾ in	Dayton	5UKF8	**5UKF8** †
	1,725	56HZ	Manual	115/208-230V AC	14.0/7.0-6.9	1.15	⅞ in	2 ¼ in	12 ¾ in	Dayton	6K418	**6K418**
	1,725	56HZ	None	115/208-230V AC	14.0/7.0-6.9	1.15	⅞ in	2 ¼ in	12 ¾ in	Dayton	6K407	**6K407** †
	1,725	143T	None	115/208-230V AC	14.0/7.0-6.9	1.15	⅞ in	2 ¼ in	12 ¾ in	Dayton	6K827	**6K827**
	1,725	143T	None	115/230V AC	13.2/6.6	1	⅞ in	2 ¼ in	13 5/16 in	Marathon	5KC49TN0033	**44D161**
1 ½	1,750	184	None	115/230V AC	18.4/9.2	1	⅞ in	2 ¼ in	15 ⅛ in	Dayton	5K486	**5K486** †
2	1,740	182T	None	115/230V AC	23.6/11.8	1	1 ⅛ in	2 ¾ in	15 ⅛ in	Dayton	5K966	**5K966** †
Totally Enclosed Nonventilated with Rigid Base-Mount												
⅓	3,450	48	Auto	115/208-230V AC	4.7/2.4-2.3	1	½ in	1 ½ in	9 ¾ in	Dayton	6K481	**6K481** †
	3,450	48	None	115/208-230V AC	4.7/2.4-2.3	1	½ in	1 ½ in	10 in	Dayton	5UKE6	**5UKE6** †
½	3,450	48	Auto	115/208-230V AC	6.3/3.4-3.3	1	½ in	1 ½ in	10 7/16 in	Dayton	6K482	**6K482** †
	3,450	48	Manual	115/208-230V AC	6.5/3.5-3.4	1	½ in	1 ½ in	11 ½ in	Dayton	5UKE9	**5UKE9** †
	3,450	48	None	115/208-230V AC	6.5/3.5-3.4	1	½ in	1 ½ in	10 7/16 in	Dayton	5UKF0	**5UKF0** †
2-Speed												
Open Dripproof with Cradle Base-Mount												
½, ⅐	1,725/1,140	56	Auto	115V AC	7.1/3.7	1.25	⅝ in	1 ⅞ in	11 ¼ in	Dayton	5FTT0	**5FTT0**
	1,725/1,140	56	None	115V AC	7.1/3.7	1.25	⅝ in	1 ⅞ in	11 ¼ in	Dayton	5FTR9	**5FTR9**
¾, ⅕	1,725/1,140	56	Auto	115V AC	9.8/5.2	1.25	⅝ in	1 ⅞ in	11 13/16 in	Dayton	5FTT1	**5FTT1**
1, ⅓	1,725/1,140	56	Auto	115V AC	11.9/6.0	1.15	⅝ in	1 ⅞ in	11 13/16 in	Dayton	5FTT2	**5FTT2**

** 60/50Hz. † Supplied with conduit box. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

Capacitor-Start NEMA Frame Face- & Face/ Base-Mount Motors

Dayton · marathon Motors · US Motors · WEG

- Number of Speeds: 1
- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Provide additional power during startup for medium- to high-torque requirements in conveyor, shop tool, ventilation, or pump applications.

Open Dripproof with Face/ Base-Mount 4K811

Totally Enclosed Fan-Cooled with Face/ Base-Mount 1K079

HP	Nameplate RPM	Frame	Voltage	Motor Thermal Protection	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Open Dripproof with Face/Base-Mount														
1	1,725	145TC	115/208-230V AC	None	14.8/7.5-7.3	1.15	B	70 %	⅞ in	2 ⅛ in	11 15/16 in	Dayton	4K811	**4K811** †
1½	1,725	145TC	115/208-230V AC	None	19.2/10.0-9.6	1.15	B	74 %	⅞ in	2 ¼ in	13 ¼ in	Dayton	4K812	**4K812**
Totally Enclosed Fan-Cooled with Face/Base-Mount														
¼	1,140	56C	115/208-230V AC	None	6.8/3.4-3.1	1.15	B	47.5 %	⅝ in	2 1/16 in	11 13/16 in	Marathon	056C11F5302	**19YU91**
⅓	3,450	56C	115/208-230V AC	Auto	6.6/3.3-3.2	1.15	B	51.6 %	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	1K076	**1K076** †
	1,725	56C	115/208-230V AC	Manual	6.6/3.3-3.1	1.15	B	55 %	⅝ in	2 1/16 in	11 13/16 in	Marathon	056C17F5358	**21YZ45**
	1,725	56C	115/208-230V AC	None	6.6/3.3-3.0	1	B	71.6 %	⅝ in	1 ⅞ in	11 in	Dayton	1K077	**1K077** †
	1,725	56C	115/208-230V AC	None	6.6/3.3-3.1	1.15	B	55 %	⅝ in	2 1/16 in	11 13/16 in	Marathon	056C17F5320	**19YU93** *
	1,725	56C	115/208-230V AC	None	6.6/3.3-3.0	1.15	B	60.8 %	⅝ in	2 1/16 in	11 in	U.S. Motors	T13C2JC	**55MM45** ‡
	1,140	56C	115/208-230V AC	None	7.8/3.9-3.6	1.15	B	52.5 %	⅝ in	2 1/16 in	12 5/16 in	Marathon	056C11F5303	**19YU92**

** 60/50Hz. † Supplied with conduit box. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

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Capacitor-Start NEMA Frame Face- & Face/Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Motor Thermal Protection	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Face/Base-Mount (Cont.)														
½	3,450	56C	115/208-230V AC	Auto	7.8/4.1-3.9	1	B	56.1 %	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	1K078	**1K078**
	3,450	56C	115/208-230V AC	None	7.4/3.7-3.6	1.25	B	68 %	⅝ in	1 ⅞ in	11 ⅜ in	Marathon	5KC36LN144	**21YZ37**
	1,725	56C	115/208-230V AC	Manual	8.8/4.4-4.2	1.15	B	66 %	⅝ in	2 1/16 in	11 13/16 in	Marathon	056C17F5912	**21YZ46**
	1,725	56C	115/208-230V AC	None	7.7/3.9-3.9	1.15	B	69.4 %	⅝ in	1 ⅞ in	11 ⅝ in	Dayton	1K079	**1K079**
	1,725	56C	115/230V AC	None	8.6/4.3	1.15	B	64 %	⅝ in	1 ⅞ in	11 in	Marathon	5KC42GN0066	**21YZ39**
	1,725	56C	115/208-230V AC	None	8.8/4.4-4.2	1.15	F	66 %	⅝ in	2 1/16 in	11 13/16 in	Marathon	056C17F5321	**19YU94** *
	1,725	56C	115/230V AC	None	6.3-5.6/3.1-2.8	1.25	B	77.1 %	⅝ in	2 in	12 in	U.S. Motors	T12C2ZCR	**55MM66** *‡
¾	3,450	56C	115/208-230V AC	Auto	10.4/5.3-5.2	1.15	B	74.7 %	⅝ in	1 ⅞ in	11 15/16 in	Dayton	1K080	**1K080**
	1,725	56C	115/208-230V AC	Manual	11.0/5.5-5.4	1.15	B	70.5 %	⅝ in	2 1/16 in	12 5/16 in	Marathon	056C17F5913	**21YZ47** *
	1,725	56C	115/208-230V AC	None	11.0/5.5-5.4	1.15	B	71.3 %	⅝ in	1 ⅞ in	12 ½ in	Dayton	1K081	**1K081**
	1,725	56C	115/208-230V AC	None	11.0/5.5-5.4	1.15	B	70.5 %	⅝ in	2 1/16 in	12 5/16 in	Marathon	056C17F5322	**19YU95** *
	1,725	56C	115/208-230V AC	None	11.4/5.7-5.7	1.15	B	71.3 %	⅝ in	4 ¼ in	11 ⅞ in	U.S. Motors	T34C2JCR	**55ML82** ‡
1	3,450	56C	115/230V AC	Auto	13.0/6.5	1.15	B	68.5 %	⅝ in	1 ⅞ in	12 7/16 in	Marathon	5KC49NN2132X	**2K380** †
	3,450	56C	115/208-230V AC	None	13.9/7.0-6.9	1	B	75.1 %	⅝ in	1 ⅞ in	12 5/16 in	Dayton	3K348	**3K348**
	3,450	56C	115/208-230V AC	None	13.6/6.9-6.8	1.15	B	78.2 %	⅝ in	2 1/16 in	12 ⅜ in	U.S. Motors	T1C1JC	**55ML49** ‡
	1,745	56C	115/208-230V AC	None	13.6/7.5-6.8	1.15	F	71 %	⅝ in	1 ⅞ in	13 ⅞ in	Weg	00118ES1B56C-S	**52XR28**
	1,725	56HC	115/208-230V AC	None	13.4/6.8-6.7	1.15	B	72 %	⅝ in	2 1/16 in	12 13/16 in	Marathon	056C17F5323	**19YU96** *
Totally Enclosed Fan-Cooled with Face-Mount														
⅙	1,725	42CZ	115/230V AC	None	3.8/1.90	1.15	B	49.1 %	½ in	1 ⅛ in	9 9/16 in	Dayton	1K057	**1K057** †
	1,140	56C	115/208-230V AC	None	3.8/1.90-1.80	1.15	B	54.1 %	⅝ in	1 ⅞ in	10 11/16 in	Dayton	5GD54	**5GD54**
¼	1,725	42CZ	115/230V AC	None	4.5/2.3	1.15	B	60.3 %	½ in	1 ⅛ in	10 9/16 in	Dayton	1K058	**1K058** †
	1,725	56C	120/208-240V AC	None	5.6/2.8-2.7	1.35	F	56.2 %	⅝ in	1 ⅞ in	11 3/16 in	Dayton	6K975	**6K975**
	1,140	56C	115/208-230V AC	None	5.6/2.8-2.7	1	B	58.5 %	⅝ in	1 ⅞ in	12 ½ in	Dayton	6XJ44	**6XJ44**
⅓	3,450	56C	115/230V AC	None	5.6/2.8	1.15	B	57.5 %	⅝ in	1 ⅞ in	10 9/16 in	Marathon	5KC33FN31	**21YZ89**
	1,725	42CZ	115/230V AC	None	6.2/3.1	1	F	61.2 %	½ in	1 ⅛ in	9 ⅝ in	Dayton	1K059	**1K059**
	1,725	56C	115/208-230V AC	None	7.7/3.9-3.9	1.15	B	52.7 %	⅝ in	1 ⅞ in	11 3/16 in	Dayton	5K341	**5K341**
½	3,450	56C	115/208-230V AC	Auto	7.8/4.1-3.9	1	B	57.8 %	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	6K182	**6K182** †
	1,725	56C	115/208-230V AC	Auto	9.0/4.5-4.3	1.15	B	60.7 %	⅝ in	1 ⅞ in	11 ⅜ in	Dayton	5GD57	**5GD57**
	1,725	56C	115/208-230V AC	Auto	9.0/4.5-4.3	1.15	B	63 %	⅝ in	4 ¼ in	11 ⅜ in	U.S. Motors	T12CA2JCR	**55ML58** ‡
	1,725	56C	115/208-230V AC	None	7.7/3.9-3.9	1.15	B	60.8 %	⅝ in	1 ⅞ in	12 in	Dayton	6K342	**6K342**
	1,140	56C	115/208-230V AC	None	10.4/5.2-5.1	1.15	B	62.2 %	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	5GD58	**5GD58** †
¾	3,450	56C	115/208-230V AC	Auto	10.4/5.3-5.2	1.15	B	67.8 %	⅝ in	1 ⅞ in	11 15/16 in	Dayton	6K831	**6K831**
	1,725	56C	115/208-230V AC	Auto	11.4/5.7-5.7	1.15	B	69 %	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	5GD60	**5GD60**
1	3,450	56C	115/208-230V AC	Auto	13.6/6.9-6.8	1	B	66.7 %	⅝ in	1 ⅞ in	12 7/16 in	Dayton	6K197	**6K197**
1½	3,450	56C	115/230V AC	Auto	16.4, 8.2	1	B	74 %	⅝ in	1 ⅞ in	12 15/16 in	Marathon	5KC49SN2156X	**2K389** †
Totally Enclosed Nonventilated with Face-Mount														
⅙	1,725	56C	115/208-230V AC	None	4.3/2.1-1.90	1.15	F	52.9 %	⅝ in	1 ⅞ in	10 5/16 in	Dayton	5GD53	**5GD53** †
⅓	3,460	56C	115/208-230V AC	None	4.3/2.5-2.2	1.15	B	69.2 %	⅝ in	1 ⅞ in	9 13/16 in	Dayton	5GD55	**5GD55**
	3,450	56C	115/208-230V AC	Auto	4.7/2.4-2.3	1	B	60 %	⅝ in	1 ⅞ in	10 ¼ in	Dayton	6K181	**6K181** †

** 60/50Hz. † Supplied with conduit box. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

Capacitor-Start/Run NEMA Frame Face- & Face/Base-Mount Motors

2015 SMALL MOTOR LEGISLATION

- Number of Speeds: 1
- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

These motors run with higher operating efficiency than standard capacitor-start motors. They power medium- to high-torque applications such as air conditioners, conveyors, fans, or pumps.

Open Dripproof with Face/Base-Mount 4K815

Totally Enclosed Fan-Cooled with Face-Mount 6K674

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Open Dripproof with Face/Base-Mount														
⅓	1,725	56C	None	115/230V AC	3.8/1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	9 15/16 in	Dayton	30PT43	**30PT43** ‡
½	1,725	56C	Auto	120/240V AC	5.2-4.4/2.6-2.2	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 7/16 in	Marathon	056B17D11029	**54JH43** *‡
	1,725	56C	None	115/230V AC	5.0/2.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	9 15/16 in	Dayton	30PT44	**30PT44** ‡
¾	1,725	56C	None	115/208-230V AC	6.6/3.5-3.3	1.25	B	81.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR90	**31TR90** ‡
3	1,750	184TC	None	115/230V AC	33.0/16.5	1.15	F	82.7 %	1 ⅛ in	2 ¾ in	14 ¼ in	Dayton	4K815	**4K815** †
Open Dripproof with Face-Mount														
¼	1,725	56C	Auto	115/208-230V AC	2.4/1.20-1.20	1.35	B	68.5 %	⅝ in	1 ⅞ in	10 11/16 in	Dayton	20VD14	**20VD14** ‡
	1,725	56C	None	115/230V AC	3.1/1.50	1.35	B	68.5 %	⅝ in	1 ⅞ in	9 15/16 in	Dayton	30PT38	**30PT38** ‡
⅓	3,450	56C	None	115/230V AC	3.0/1.50	1.35	B	70.5 %	⅝ in	2 1/16 in	10 7/16 in	Marathon	056B34D11018	**40LM34** ‡
	1,725	56C	Auto	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	10 15/16 in	Dayton	20VD12	**20VD12** ‡
	1,725	56C	None	115/230V AC	3.8/1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	9 15/16 in	Dayton	30PT39	**30PT39** ‡
½	1,725	56C	Auto	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 7/16 in	Dayton	20VD13	**20VD13** ‡
	1,725	56C	None	115/230V AC	5.0/2.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	9 15/16 in	Dayton	30PT40	**30PT40** ‡
¾	1,725	56C	Auto	115/208-230V AC	6.6/3.5-3.3	1.25	B	81.8 %	⅝ in	1 ⅞ in	13 in	Dayton	31TR92	**31TR92** ‡
	1,725	56C	None	115/230V AC	7.0/3.5	1.25	B	81.8 %	⅝ in	1 ⅞ in	11 15/16 in	Dayton	30PT41	**30PT41** ‡
1	1,725	56C	Auto	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅝ in	1 ⅞ in	13 in	Dayton	31TR93	**31TR93** ‡
	1,725	56C	None	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR91	**31TR91** ‡
1 ½	1,725	56C	None	115/230V AC	13.4/6.7	1.15	B	83.8 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	30PT42	**30PT42** †‡
2	1,725	56C	None	115/208-230V AC	17.6/9.5-8.8	1.15	B	84.5 %	⅝ in	1 ⅞ in	14 in	Dayton	31TR89	**31TR89** †‡
Totally Enclosed Fan-Cooled with Face/Base-Mount														
⅓	1,725	56C	Auto	115/230V AC	4.0-3.8/2.0-1.90	1.35	B	70.2 %	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KCR46JN0087X	**1K126**
	1,725	56C	Manual	115/230V AC	4.0-3.8/2.0-1.90	1.35	B	70.2 %	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KCR46JN0087Y	**1K124**
½	1,725	56C	Auto	115/230V AC	5.8-5.6/2.9-2.8	1.25	B	74 %	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KCR46MN0055X	**1K129**
¾	1,725	56C	Auto	115/230V AC	9.0-8.8/4.5-4.4	1.25	B	75.2 %	⅝ in	1 ⅞ in	12 7/16 in	Marathon	5KCR49PN0099X	**1K132**
1	1,725	56C	Auto	115/230V AC	11.8-11.4/5.9-5.7	1.15	B	74.8 %	⅝ in	1 ⅞ in	13 in	Marathon	5KCR49UN0106X	**1K135**
	1,725	56C	Manual	115/230V AC	11.8-11.4/5.9-5.7	1.15	B	74 %	⅝ in	1 ⅞ in	13 in	Marathon	5KCR49UN0106Y	**1K133**
	1,725	56HC	None	115/208-230V AC	9.9/5.2-5.0	1.15	B	67.8 %	⅝ in	1 ⅞ in	12 ⅞ in	Dayton	6K045	**6K045** †
1 ½	1,725	56HC	None	115/208-230V AC	14.4/8.0-7.2	1.15	B	80 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	1K082	**1K082** †
2	3,450	56HC	None	115/208-230V AC	16.6/9.4-8.3	1.15	B	79 %	⅝ in	2 1/16 in	13 5/16 in	Marathon	056B34F5327	**19YU89**
	1,725	56HC	None	115/208-230V AC	15.2/8.2-7.6	1	F	80 %	⅝ in	2 1/16 in	13 13/16 in	Marathon	056B17F5306	**19YU87** *
Totally Enclosed Fan-Cooled with Face-Mount														
½	1,725	56C	None	115/230V AC	5.8-5.6/2.9-2.8	1.25	B	74 %	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KCR46MN0093	**1K128**
1	1,725	56C	None	115/208-230V AC	9.9/5.2-5.0	1.15	B	79.3 %	⅝ in	1 ⅞ in	12 ½ in	Dayton	6K674	**6K674** †
1 ½	3,450	56C	Auto	115/208-230V AC	14.6/8.1-7.4	1	B	78.5 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	6K832	**6K832** †
	1,725	56C	None	115/208-230V AC	14.4/8.0-7.2	1.15	B	80 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	6K702	**6K702** †
2	3,450	56C	Auto	115/230V AC	17.8, 8.9	1	B	83.3 %	⅝ in	1 ⅞ in	14 ¼ in	Marathon	5KCR49TN2155T	**2K383**
	3,450	56C	None	115/208-230V AC	19.5/10.8-9.7	1.15	B	80 %	⅝ in	1 ⅞ in	13 ⅜ in	Dayton	5GD67	**5GD67** †
	1,725	56C	None	115/208-230V AC	18.9/10.3-9.4	1	F	81.5 %	⅝ in	1 ⅞ in	13 13/16 in	Dayton	1K075	**1K075** †

** 60/50 Hz. † Supplied with conduit box. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Open Dripproof with Cradle Base-Mount 30PT82

Open Dripproof with Rigid Base-Mount 6K854

Dayton marathon Motors 2015 SMALL MOTOR LEGISLATION

Capacitor-Start/Run NEMA Frame Cradle & Rigid Base-Mount Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

These motors run with higher operating efficiency than standard capacitor-start motors. They power medium- to high-torque applications such as air conditioners, conveyors, fans, or pumps.

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
1-Speed														
Open Dripproof with Cradle Base-Mount														
¼	3,450	48Z	Auto	115/230V AC	2.7/1.30	1.35	B	66.6 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT45	**30PT45** ‡
	1,725	48Z	Auto	115/230V AC	3.1/1.50	1.35	B	68.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT46	**30PT46** ‡
	1,725	48Z	None	115/230V AC	3.1/1.50	1.35	B	68.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT49	**30PT49** ‡
	1,725	56	Auto	115/230V AC	3.1/1.50	1.35	B	68.5 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT47	**30PT47** ‡
	1,725	56	None	115/230V AC	3.1/1.50	1.35	B	68.5 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT48	**30PT48** ‡
	1,140	56	Auto	115/230V AC	3.7/1.90	1.35	B	62.2 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	30PT50	**30PT50** ‡
	1,140	56	None	115/230V AC	3.7/1.90	1.35	B	62.2 %	⅝ in	1 ⅞ in	10 13⁄16 in	Dayton	30PT51	**30PT51** ‡
⅓	3,450	48Z	Auto	115/230V AC	3.7/1.80	1.35	B	70.5 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT52	**30PT52** ‡
	1,725	48Z	Auto	115/230V AC	3.8/1.90	1.35	B	72.4 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT55	**30PT55** ‡
	1,725	48Z	None	115/230V AC	3.8/1.90	1.35	B	72.4 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT56	**30PT56** ‡
	1,725	56	Auto	115/230V AC	4.0-3.8/2.0-1.90	1.35	B	70.2 %	⅝ in	1 ⅞ in	10 ¾ in	Marathon	5KCR46JN0086X	**1K101**
	1,725	56	Auto	115/230V AC	3.9/1.9	1.35	B	72.4 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT54	**30PT54** ‡
	1,725	56	Manual	115/230V AC	3.9/1.9	1.35	B	72.4 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT57	**30PT57** ‡
	1,725	56	None	115/230V AC	3.8/1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT53	**30PT53** ‡
	1,140	56	Auto	115/230V AC	4.4/2.3	1.35	B	66.6 %	⅝ in	1 ⅞ in	11 5⁄16 in	Dayton	30PT59	**30PT59** ‡
	1,140	56	None	115/230V AC	4.4/2.3	1.35	B	66.6 %	⅝ in	1 ⅞ in	11 ¼ in	Dayton	30PT58	**30PT58** ‡
½	3,450	48Z	None	115/230V AC	5.0/2.5	1.25	B	72.4 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT61	**30PT61** ‡
	3,450	56	Auto	115/230V AC	5.0/2.5	1.25	B	72.4 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT60	**30PT60** ‡
	1,725	48Z	Auto	115/230V AC	5.0/2.6	1.25	B	76.2 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT65	**30PT65** ‡
	1,725	48Z	None	115/230V AC	5.0/2.6	1.25	B	76.2 %	½ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT64	**30PT64** ‡
	1,725	56	Auto	115/230V AC	5.0/2.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	10 5⁄16 in	Dayton	30PT62	**30PT62** ‡
	1,725	56H	Auto	115/230V AC	5.0/2.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 5⁄16 in	Dayton	30PT66	**30PT66** ‡
	1,140	56	Auto	115/230V AC	4.8/2.4	1.25	B	76.2 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT68	**30PT68** ‡
	1,140	56	None	115/230V AC	4.8/2.4	1.25	B	76.2 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT67	**30PT67** ‡
¾	3,450	56	Auto	115/230V AC	7.0/3.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	30PT89	**30PT89** ‡
	3,450	56	None	115/230V AC	7.0/3.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 13⁄16 in	Dayton	30PT90	**30PT90** ‡
	1,725	56	Auto	115/230V AC	7.0/3.5	1.25	B	81.8 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT69	**30PT69** ‡
	1,725	56	None	115/230V AC	7.0/3.5	1.25	B	81.8 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT70	**30PT70** ‡
	1,725	56H	Auto	115/230V AC	7.0/3.5	1.25	B	81.8 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT71	**30PT71** ‡
	1,140	56	Auto	115/230V AC	6.6/3.4	1.15	B	80.2 %	⅝ in	1 ⅞ in	13 13⁄16 in	Dayton	30PT73	**30PT73** ‡
	1,140	56	None	115/230V AC	7.4/3.7	1.15	B	80.2 %	⅝ in	1 ⅞ in	13 13⁄16 in	Dayton	30PT72	**30PT72** †‡
1	3,450	56	Auto	115/230V AC	9.3/4.3	1.25	B	80.4 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	30PT74	**30PT74** ‡
	3,450	56	None	115/230V AC	9.3/4.3	1.25	B	80.4 %	⅝ in	1 ⅞ in	13 13⁄16 in	Dayton	30PT75	**30PT75** ‡
	1,725	56	Auto	115/230V AC	8.8/4.4	1.15	B	82.6 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT77	**30PT77** ‡
	1,725	56	None	115/230V AC	8.8/4.4	1.15	B	82.6 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT76	**30PT76** ‡
	1,725	56H	Auto	115/230V AC	11.8-11.4/5.9-5.7	1.15	B	77.4 %	⅝ in	1 ⅞ in	12 11⁄16 in	Marathon	5KCR48UN0105X	**1K107**
	1,725	56H	Auto	115/230V AC	8.8/4.4	1.15	B	82.6 %	⅝ in	1 ⅞ in	12 5⁄16 in	Dayton	30PT78	**30PT78** ‡
	1,140	56	Auto	115/230V AC	8.9/4.6	1.15	B	81.1 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	30PT79	**30PT79** †‡
	1,140	56	None	115/230V AC	8.9/4.6	1.15	B	81.1 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	30PT91	**30PT91** ‡†
1 ½	3,450	56	Auto	115/230V AC	13.3/6.7	1.15	B	81.5 %	⅝ in	1 ⅞ in	12 13⁄16 in	Dayton	30PT80	**30PT80** ‡
	3,450	56	None	115/230V AC	13.3/6.7	1.15	B	81.5 %	⅝ in	1 ⅞ in	12 13⁄16 in	Dayton	30PT88	**30PT88** ‡
	1,725	56	Auto	115/230V AC	13.4/6.7	1.15	B	83.8 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	30PT82	**30PT82** ‡
	1,725	56	None	115/230V AC	13.4/6.7	1.15	B	83.8 %	⅝ in	1 ⅞ in	12 13⁄16 in	Dayton	30PT81	**30PT81** ‡
	1,725	56H	Auto	115/230V AC	13.4/6.7	1.15	B	83.8 %	⅝ in	1 ⅞ in	13 5⁄16 in	Dayton	30PT83	**30PT83** ‡
2	3,450	56H	Auto	115/230V AC	17.3/8.7	1.15	B	82.9 %	⅝ in	1 ⅞ in	13 13⁄16 in	Dayton	30PT84	**30PT84** ‡
	3,450	56H	None	115/230V AC	17.3/8.7	1.15	B	82.9 %	⅝ in	1 ⅞ in	13 13⁄16 in	Dayton	30PT85	**30PT85** ‡
	1,725	56H	Auto	115/230V AC	17.0/8.5	1.15	B	84.5 %	⅝ in	1 ⅞ in	13 9⁄16 in	Dayton	30PT86	**30PT86** ‡
Open Dripproof with Rigid Base-Mount														
¼	1,725	48	Auto	115/208-230V AC	2.4/1.20-1.20	1.35	B	68.5 %	½ in	1 ½ in	10 ⅜ in	Dayton	20CL63	**20CL63** ‡
	1,725	56	Auto	115/208-230V AC	2.4/1.20-1.20	1.35	B	68.5 %	⅝ in	1 ⅞ in	10 ¾ in	Dayton	20VD04	**20VD04** ‡
	1,725	56	None	115/208-230V AC	2.4/1.20-1.20	1.35	B	68.5 %	⅝ in	1 ⅞ in	10 ¾ in	Dayton	20VD11	**20VD11** ‡
	1,140	56	None	115/208-230V AC	2.4/1.20-1.20	1.35	B	62.2 %	⅝ in	1 ⅞ in	12 in	Dayton	20VD16	**20VD16** ‡
⅓	3,450	48	Auto	115/208-230V AC	3.0/1.60-1.50	1.35	B	70.5 %	½ in	1 ½ in	10 ⅛ in	Dayton	20CL57	**20CL57** ‡
	3,450	48	None	115/208-230V AC	3.0/1.60-1.50	1.35	B	70.5 %	½ in	1 ½ in	10 ⅛ in	Dayton	20CL58	**20CL58** ‡
	1,725	48	Auto	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	½ in	1 ½ in	10 ⅝ in	Dayton	20CL64	**20CL64** ‡
	1,725	48	None	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	½ in	1 ½ in	10 ⅝ in	Dayton	20CL61	**20CL61** ‡
	1,725	56	Auto	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	11 in	Dayton	20VD07	**20VD07** ‡
	1,725	56	Manual	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	11 in	Dayton	20VD09	**20VD09** ‡
	1,725	56	None	115/208-230V AC	3.8/1.90-1.90	1.35	B	72.4 %	⅝ in	1 ⅞ in	11 in	Dayton	20VD05	**20VD05** ‡
	1,140	56	None	115/208-230V AC	3.4/1.80-1.70	1.35	B	66.6 %	⅝ in	1 ⅞ in	12 in	Dayton	31TR95	**31TR95** ‡
½	3,450	48	Auto	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	½ in	1 ½ in	10 ⅝ in	Dayton	20CL53	**20CL53** ‡
	3,450	48	Manual	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	½ in	1 ½ in	10 ⅝ in	Dayton	20CL62	**20CL62** ‡
	3,450	48	None	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	½ in	1 ½ in	10 ⅝ in	Dayton	20CL54	**20CL54** ‡
	3,450	56	Auto	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	⅝ in	2 in	11 in	Dayton	20VD17	**20VD17** ‡
	3,450	56	Manual	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	⅝ in	1 ⅞ in	11 in	Dayton	20VD18	**20VD18** ‡
	3,450	56	None	115/208-230V AC	4.4/2.4-2.2	1.25	B	72.4 %	⅝ in	1 ⅞ in	11 in	Dayton	20VD19	**20VD19** ‡
	1,725	48	Auto	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	½ in	1 ½ in	11 ⅛ in	Dayton	20CL56	**20CL56** ‡
	1,725	48	None	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	½ in	1 ½ in	11 ⅛ in	Dayton	20CL60	**20CL60** ‡
	1,725	56	Auto	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	20VD08	**20VD08** ‡
	1,725	56	Manual	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	20VD10	**20VD10** ‡
	1,725	56	None	115/208-230V AC	4.6/2.4-2.3	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	20VD06	**20VD06** ‡
	1,140	56	None	115/208-230V AC	5.6/3.0-2.8	1.25	B	76.2 %	⅝ in	1 ⅞ in	12 ⅛ in	Dayton	31TR96	**31TR96** ‡

***** 60/50 Hz. † Cradle with studs in a 4 3⁄16" square pattern. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

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CONTINUED

Capacitor-Start/Run NEMA Frame Cradle & Rigid Base-Mount Motors

Dayton · marathon Motors · 2015 SMALL MOTOR LEGISLATION

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
1-Speed (Cont.)														
Open Dripproof with Rigid Base-Mount (Cont.)														
¾	3,450	48	Auto	115/208-230V AC	7.2/4.0-3.6	1.25	B	76.2 %	½ in	1 ½ in	11 ⅛ in	Dayton	20CL59	**20CL59** ‡
	3,450	48	None	115/208-230V AC	7.2/4.0-3.6	1.25	B	76.2 %	½ in	1 ½ in	11 ⅛ in	Dayton	20CL55	**20CL55** ‡
	3,450	56	Auto	115/208-230V AC	7.2/4.0-3.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	20VD15	**20VD15** ‡
	3,450	56	None	115/208-230V AC	7.2/4.0-3.6	1.25	B	76.2 %	⅝ in	1 ⅞ in	11 ½ in	Dayton	20VD20	**20VD20** ‡
	1,725	56	Auto	115/208-230V AC	6.6/3.5-3.3	1.25	B	81.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR73	**31TR73** ‡
	1,725	56	Manual	115/208-230V AC	6.6/3.5-3.3	1.25	B	81.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR74	**31TR74** ‡
	1,725	56	None	115/208-230V AC	6.6/3.5-3.3	1.25	B	81.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR72	**31TR72** ‡
	1,140	56H	None	115/208-230V AC	6.7/3.7-3.4	1.15	B	80.2 %	⅝ in	1 ⅞ in	13 11/16 in	Dayton	31TT06	**31TT06** ‡
1	3,450	56	Auto	115/208-230V AC	8.8/4.9-4.4	1.25	B	80.4 %	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	31TR94	**31TR94** ‡
	3,450	56	Manual	115/208-230V AC	8.8/4.9-4.4	1.25	B	80.4 %	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	31TT04	**31TT04** ‡
	3,450	56	None	115/208-230V AC	8.8/4.9-4.4	1.25	B	80.4 %	⅝ in	1 ⅞ in	12 ⅜ in	Dayton	31TT03	**31TT03** ‡
	1,725	56H	Auto	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR80	**31TR80** ‡
	1,725	56H	Manual	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	31TR87	**31TR87** ‡
	1,725	56H	None	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	31TR75	**31TR75** ‡
	1,725	56HZ	Auto	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅞ in	2 ¼ in	13 in	Dayton	31TR77	**31TR77** ‡
	1,725	56HZ	Manual	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅞ in	2 ¼ in	13 in	Dayton	31TR86	**31TR86** ‡
	1,725	56HZ	None	115/208-230V AC	8.4/4.6-4.2	1.15	B	82.6 %	⅞ in	2 ¼ in	13 ¼ in	Dayton	31TR81	**31TR81** ‡
1 ½	3,450	56H	Auto	115/208-230V AC	13.6/7.0-6.8	1.15	B	81.5 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	31TR98	**31TR98** ‡
	3,450	56H	Manual	115/208-230V AC	13.6/7.0-6.8	1.15	B	81.5 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	31TR97	**31TR97** ‡
	3,450	56H	None	115/208-230V AC	13.6/7.0-6.8	1.15	B	81.5 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	31TR99	**31TR99** ‡
	1,725	56H	Auto	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR83	**31TR83** ‡
	1,725	56H	Manual	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	31TR78	**31TR78** ‡
	1,725	56H	None	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅝ in	1 ⅞ in	13 ⅝ in	Dayton	31TR76	**31TR76** ‡
	1,725	56HZ	Auto	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅞ in	2 ¼ in	13 ⅞ in	Dayton	31TR79	**31TR79** ‡
	1,725	56HZ	Manual	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅞ in	2 ¼ in	13 ⅞ in	Dayton	31TR85	**31TR85** ‡
	1,725	56HZ	None	115/208-230V AC	12.6/6.9-6.3	1.15	B	83.8 %	⅞ in	2 ¼ in	13 ⅞ in	Dayton	31TR82	**31TR82** ‡
2	3,450	56H	Auto	115/208-230V AC	17.8/9.2-8.9	1.15	B	82.9 %	⅝ in	1 ⅞ in	11 15/16 in	Dayton	31TT01	**31TT01** ‡
	3,450	56H	Manual	115/208-230V AC	17.8/9.2-8.9	1.15	B	82.9 %	⅝ in	1 ⅞ in	11 15/16 in	Dayton	31TT05	**31TT05** ‡
	3,450	56H	None	115/208-230V AC	17.8/9.2-8.9	1.15	B	82.9 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	31TT02	**31TT02** ‡
	3,450	145T	None	115/208-230V AC	17.5/9.3-8.6	1.15	B	80 %	⅞ in	2 ¼ in	13 ¼ in	Dayton	6K631	**6K631**
	1,725	56H	Auto	115/208-230V AC	17.6/9.5-8.8	1.15	B	84.8 %	⅝ in	1 ⅞ in	14 3/16 in	Dayton	31TR71	**31TR71** ‡
	1,725	56H	None	115/208-230V AC	17.6/9.5-8.8	1.15	B	84.5 %	⅝ in	1 ⅞ in	13 7/16 in	Dayton	31TR70	**31TR70** ‡
	1,725	56HZ	Auto	115/208-230V AC	17.6/9.5-8.8	1.15	B	84.5 %	⅞ in	2 ¼ in	14 ¾ in	Dayton	31TR88	**31TR88** ‡
	1,725	56HZ	None	115/208-230V AC	17.6/9.5-8.8	1.15	B	84.5 %	⅞ in	2 ¼ in	14 ¾ in	Dayton	31TR84	**31TR84** ‡
3	3,450	145T	None	115/230V AC	25.0/12.5	1.15	B	84.1 %	⅞ in	2 ¼ in	13 ¾ in	Dayton	5JE13	**5JE13**
	1,745	215	None	115/230V AC	35.6/17.8	1.15	F	80.4 %	1 ⅛ in	3 in	16 ⅞ in	Dayton	5K483	**5K483**
5	3,530	184T	None	230V AC	19.6	1.15	F	88.1 %	1 ⅛ in	2 ⅞ in	18 in	Dayton	6K633	**6K633**
	1,745	213T	None	230V AC	22.0	1.15	F	85 %	1 ⅜ in	3 ½ in	17 ¼ in	Dayton	5K676	**5K676**
	1,740	184T	None	230V AC	20.0	1.15	F	84.2 %	1 ⅛ in	2 ¾ in	16 ¼ in	Dayton	6K854	**6K854**
7 ½	3,530	213T	None	230V AC	30.3	1.15	F	89.3 %	1 ⅜ in	3 ½ in	19 ⅛ in	Dayton	6K634	**6K634**
	1,740	215T	None	230V AC	35.5	1.15	F	85.4 %	1 ⅜ in	3 ⅜ in	19 ⅞ in	Dayton	5K677	**5K677**
10	1,740	215T	None	230V AC	42.2	1.15	F	88.2 %	1 ⅜ in	3 ⅜ in	19 ⅞ in	Dayton	6K100	**6K100**
Totally Enclosed Fan-Cooled with Cradle Base-Mount														
¾	1,140	56H	Auto	115/230V AC	10.4/5.2	1	B	73.7 %	⅝ in	1 ⅞ in	14 ¼ in	Dayton	5PHA8	**5PHA8**
1	1,140	56H	Auto	115/230V AC	12.1/6.1	1	B	75.7 %	⅝ in	1 ⅞ in	14 ¾ in	Dayton	5PHC0	**5PHC0**
Totally Enclosed Fan-Cooled with Rigid Base-Mount														
½	1,725	56	None	115/230V AC	5.8-5.6/2.9-2.8	1.25	B	72 %	⅝ in	1 ⅞ in	11 13/16 in	Marathon	5KCR46MN0094	**1K109**
	1,140	56	None	115/208-230V AC	10.6/5.4-5.3	1	B	70 %	⅝ in	1 ⅞ in	13 ⅜ in	Dayton	5K672	**5K672**
¾	1,725	56	None	115/230V AC	9.0-8.8/4.5-4.4	1.25	B	72 %	⅝ in	1 ⅞ in	12 7/16 in	Marathon	5KCR49PN0101	**1K110**
	1,140	56	None	115/230V AC	10.6/5.3	1	B	66 %	⅝ in	1 ⅞ in	13 13/16 in	Marathon	5KCR48WN6066	**2K599**
	1,140	56H	None	115/208-230V AC	10.6/5.4-5.3	1.15	B	73.6 %	⅝ in	1 ⅞ in	13 ⅜ in	Dayton	5UKF6	**5UKF6**
1	1,725	56	None	115/230V AC	11.8-11.4/5.9-5.7	1.15	B	77.4 %	⅝ in	1 ⅞ in	12 15/16 in	Marathon	5KCR49UN0108	**1K111**
	1,725	56H	Auto	115/208-230V AC	9.9/5.2-5.0	1.15	B	77.7 %	⅝ in	1 ⅞ in	12 15/16 in	Dayton	6K562	**6K562**
1 ½	3,450	56H	Auto	115/208-230V AC	14.6/8.1-7.4	1	B	80.1 %	⅝ in	1 ⅞ in	12 ⅞ in	Dayton	6XJ53	**6XJ53**
	3,450	56H	Manual	115/208-230V AC	14.6/8.1-7.4	1	B	79.1 %	⅝ in	1 ⅞ in	12 ⅞ in	Dayton	6K338	**6K338**
	3,450	143T	None	115/208-230V AC	14.6/8.1-7.4	1	B	76.2 %	⅞ in	2 ¼ in	13 ¼ in	Dayton	3K300	**3K300**
	1,725	56H	Auto	115/208-230V AC	14.4/8.0-7.2	1.15	B	81.2 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	5K565	**5K565**
	1,725	56H	Manual	115/208-230V AC	14.4/8.0-7.2	1.15	B	81.2 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	5K641	**5K641**
	1,725	56H	None	115/208-230V AC	14.4/8.0-7.2	1.15	B	79.3 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	1K066	**1K066**
	1,725	56HZ	Auto	115/208-230V AC	14.4/8.0-7.2	1.15	B	81.5 %	⅞ in	2 ¼ in	14 ¼ in	Dayton	5UKG0	**5UKG0**
	1,725	56HZ	Manual	115/208-230V AC	14.4/8.0-7.2	1.15	B	81.2 %	⅞ in	2 ¼ in	14 ¼ in	Dayton	6K420	**6K420**
	1,725	56HZ	None	115/208-230V AC	14.4/8.0-7.2	1.15	B	81.2 %	⅞ in	2 ¼ in	14 ¼ in	Dayton	6K419	**6K419**
	1,725	145T	None	115/208-230V AC	14.4/8.0-7.2	1.15	B	80.9 %	⅞ in	2 ¼ in	14 ¼ in	Dayton	6K828	**6K828**
2	3,450	56H	Auto	115/208-230V AC	19.5/10.8-9.7	1.15	B	80 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	5UKG3	**5UKG3**
	3,450	56H	Manual	115/208-230V AC	19.5/10.8-9.7	1	B	79.8 %	⅝ in	1 ⅞ in	13 ⅜ in	Dayton	5K961	**5K961**
	3,450	56H	None	115/208-230V AC	19.5/10.8-9.7	1	B	76.8 %	⅝ in	1 ⅞ in	13 ⅝ in	Dayton	5UKG4	**5UKG4**
	3,450	145T	None	115/208-230V AC	19.5/10.8-9.7	1	B	79.7 %	⅞ in	2 ¼ in	14 ¼ in	Dayton	3K344	**3K344**
	1,725	56H	Auto	115/208-230V AC	18.9/10.3-9.4	1	F	79.6 %	⅝ in	1 ⅞ in	14 7/16 in	Dayton	5UKG5	**5UKG5**
	1,725	56H	None	115/208-230V AC	18.9/10.3-9.4	1	F	78.1 %	⅝ in	1 ⅞ in	13 ⅞ in	Dayton	1K067	**1K067**
	1,725	56HZ	Auto	115/230V AC	18.9/9.4	1	F	81.7 %	⅞ in	2 ⅜ in	14 5/16 in	Dayton	5UKG6	**5UKG6**
	1,725	56HZ	None	115/208-230V AC	18.8/10.2-9.4	1	B	81.5 %	⅞ in	1 ⅞ in	14 5/16 in	Dayton	5UKG7	**5UKG7**
3	3,540	182T	None	115/230V AC	32.0/16.0	1	F	79.2 %	1 ⅛ in	2 ⅞ in	16 ⅝ in	Dayton	6K145	**6K145**
	3,450	145T	None	230V AC	15.4	1	F	78.9 %	⅞ in	2 ⅜ in	15 in	Dayton	5UKG8	**5UKG8**
	1,740	184T	None	115/230V AC	30.0/15.0	1	F	81.9 %	1 ⅛ in	2 ¾ in	17 ⅝ in	Dayton	5K967	**5K967**
5	3,540	184T	None	230V AC	19.6	1.15	F	82.2 %	1 ⅛ in	2 ⅞ in	17 ⅜ in	Dayton	6K146	**6K146**
	1,745	213T	None	230V AC	23.0	1	F	83.7 %	1 ⅜ in	3 ⅜ in	19 9/16 in	Dayton	5K968	**5K968**
	1,740	184T	None	230V AC	22.0	1	F	82.7 %	1 ⅛ in	2 ¾ in	18 ⅛ in	Dayton	2TJ12	**2TJ12**
7 ½	3,530	213T	None	230V AC	30.3	1	F	83.5 %	1 ⅜ in	3 ½ in	20 in	Dayton	6K179	**6K179**
	1,745	215T	None	230V AC	30.0	1	F	86.7 %	1 ⅜ in	3 ⅜ in	22 1/16 in	Dayton	6K176	**6K176**
10	3,535	215T	None	230V AC	40.0	1	F	85.5 %	1 ⅜ in	3 ⅜ in	22 1/16 in	Dayton	5UKH0	**5UKH0**
	1,730	215T	None	230V AC	38.0	1	F	86.9 %	1 ⅜ in	3 ⅜ in	22 1/16 in	Dayton	5UKH1	**5UKH1**
2-Speed														
Open Dripproof with Cradle Base-Mount														
¾, ¼	1,725/1,140	56	None	115V AC	7.9/4.9	1.25	B	73.3 %	⅝ in	1 ⅞ in	10 13/16 in	Dayton	6XJ26	**6XJ26** †
1, ⅓	1,725/1,140	56	None	115V AC	10.1/7.1	1.15	B	74.4 %	⅝ in	1 ⅞ in	11 13/16 in	Dayton	6XJ34	**6XJ34** †
	1,725/1,140	56	None	208-230V AC	5.2-5.0/3.5	1.15	B	76.3 %	⅝ in	1 ⅞ in	11 13/16 in	Dayton	6XJ36	**6XJ36** †

** 60/50 Hz. † Cradle with studs in a 4 3/16" square pattern. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Open Dripproof with Steel Frame 20CL66

Totally Enclosed Fan-Cooled with Cast Iron Frame 6AHZ7

Dayton · WEG · NEMA Premium · 2015 Small Motor Legislation

3-Phase NEMA Frame Rigid Base-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F motors have Class B temperature rise for longer life
- Bearings: ball (Weg models are regreasable on 254T frame and above)
- Max. ambient temp.: 40°C
- Usable at 208V

These motors power pumps, ventilation equipment, machine tools, and other industrial equipment. They operate with a higher torque and greater efficiency than single-phase models of the same HP, rpm, and frame size. Not for cooling towers.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Open Dripproof with Steel Frame															
¼	1,725	48	230/460V AC	1.00/0.50	1.35	B	Yes	69.5 %	Premium	½ in	1 ½ in	10 ⅜ in	Dayton	20CL67	**20CL67** *‡
	3,525	56	208-230/460V AC	1.00-0.92/0.46	1.35	F	Yes	65.6 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.25360T3E56-S	**52XR10**
	1,765	56	208-230/460V AC	1.20-1.10/0.53	1.35	F	Yes	69.5 %	NEMA Prem.	⅝ in	1 ⅞ in	9 15⁄16 in	Weg	.25180T3E56-S	**52XR09**
	1,725	56	230/460V AC	1.00/0.55	1.35	B	Yes	69.5 %	Premium	⅝ in	1 ⅞ in	10 ¾ in	Dayton	20VD21	**20VD21** *‡
	1,160	56	208-230/460V AC	1.20-1.10/0.55	1.35	F	Yes	67.5 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.25120T3E56-S	**52XR08**
	1,140	56	230/460V AC	1.20/0.60	1.35	B	Yes	67.5 %	Premium	⅝ in	1 ⅞ in	11 3⁄16 in	Dayton	31TT09	**31TT09** *‡
⅓	3,450	48	230/460V AC	1.40/0.70	1.35	B	Yes	69.5 %	Premium	½ in	1 ½ in	9 5⁄16 in	Dayton	20CL65	**20CL65** *‡
	1,725	48	230/460V AC	1.20/0.60	1.35	B	Yes	73.4 %	Premium	½ in	1 ½ in	10 ⅞ in	Dayton	20CL68	**20CL68** *‡
	3,520	56	208-230/460V AC	1.40-1.20/0.61	1.35	F	Yes	69.5 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.33360T3E56-S	**52XR13**
	1,765	56	208-230/460V AC	1.50-1.30/0.67	1.35	F	Yes	73.4 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.33180T3E56-S	**52XR12**
	1,725	56	230/460V AC	1.20/0.60	1.35	B	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	11 ¼ in	Dayton	20VD22	**20VD22** *‡
	1,160	56	208-230/460V AC	1.50-1.40/0.70	1.35	F	Yes	71.4 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.33120T3E56-S	**52XR11**
	1,140	56	230/460V AC	1.40/0.70	1.35	B	Yes	71.4 %	Premium	⅝ in	1 ⅞ in	12 in	Dayton	31TT10	**31TT10** *‡
½	3,450	48	230/460V AC	1.80/0.90	1.25	B	Yes	73.4 %	Premium	½ in	1 ½ in	9 7⁄16 in	Dayton	20CL66	**20CL66** *‡
	3,490	56	208-230/460V AC	1.80-1.60/0.81	1.25	F	Yes	73.4 %	NEMA Prem.	⅝ in	1 ⅞ in	10 5⁄16 in	Weg	.50360T3E56-S	**52XR17**
	3,450	56	230/460V AC	1.80/0.90	1.25	B	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	10 in	Dayton	20VD23	**20VD23** *‡
	1,765	56	208-230/460V AC	1.90-1.70/0.86	1.25	F	Yes	78.2 %	NEMA Prem.	⅝ in	1 ⅞ in	10 11⁄16 in	Weg	.50180T3E56-S	**52XR16**
	1,725	56	230/460V AC	1.70/0.85	1.25	B	Yes	78.2 %	Premium	⅝ in	1 ⅞ in	11 ⅛ in	Dayton	31TT08	**31TT08** *‡
	1,155	56	208-230/460V AC	2.1-1.90/0.93	1.25	F	Yes	75.3 %	NEMA Prem.	⅝ in	1 ⅞ in	10 11⁄16 in	Weg	.50120T3E56-S	**52XR14**
	1,140	56	230/460V AC	2.8/1.40	1.25	B	Yes	75.3 %	Premium	⅝ in	1 ⅞ in	11 11⁄16 in	Dayton	31TT11	**31TT11** *‡
¾	3,485	56	208-230/460V AC	2.5-2.3/1.10	1.25	F	Yes	76.8 %	NEMA Prem.	⅝ in	1 ⅞ in	10 11⁄16 in	Weg	.75360T3E56-S	**52XR20**
	1,760	56	208-230/460V AC	2.5-2.3/1.20	1.25	F	Yes	81.1 %	NEMA Prem.	⅝ in	1 ⅞ in	11 ⅛ in	Weg	.75180T3E56-S	**52XR19**
	1,725	56	208-230/460V AC	2.5/1.30	1.25	B	Yes	81.1 %	Premium	⅝ in	1 ⅞ in	11 5⁄16 in	Dayton	31TT14	**31TT14** *‡
	1,160	56H	208-230/460V AC	2.8-2.5/1.30	1.15	F	Yes	81.7 %	NEMA Prem.	⅝ in	1 ⅞ in	12 11⁄16 in	Weg	.75120T3E56-S	**52XR18**
	1,140	56H	230/460V AC	3.5/1.80	1.25	B	Yes	81.7 %	Premium	⅝ in	1 ⅞ in	14 in	Dayton	31TT16	**31TT16** *‡
1	3,475	56	230/460V AC	3.0/1.50	1.25	F	Yes	77 %	NEMA Prem.	⅝ in	1 ⅞ in	10 11⁄16 in	Weg	00136OT3E56-S	**52XR23**
	3,450	56	230/460V AC	3.0/1.50	1.15	B	No	77 %	Premium	⅝ in	1 ⅞ in	10 3⁄16 in	Dayton	30PT92	**30PT92** *‡
	1,725	56	230/460V AC	3.0/1.50	1.15	B	Yes	83.5 %	Premium	⅝ in	1 ⅞ in	11 11⁄16 in	Dayton	31TT12	**31TT12** *‡
	1,760	56H	230/460V AC	3.1/1.60	1.15	F	Yes	83.5 %	Premium	⅝ in	1 ⅞ in	11 ½ in	Dayton	31LH31	**31LH31** †‡
	1,725	56H	230/460V AC	3.0/1.50	1.15	B	Yes	83.5 %	Premium	⅝ in	1 ⅞ in	11 11⁄16 in	Dayton	31TT15	**31TT15** *‡
	1,760	143/5T	230/460V AC	3.0/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	11 3⁄16 in	Weg	00118OT3E143T-S	**33HN85**
	1,760	143-5T/56HZ	208-230/460V AC	3.2-3.1/1.60	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKX3	**2NKX3** *
	1,165	143-5T/56HZ	230/460V AC	4.0/2.00	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	14 1⁄16 in	Dayton	2NKX5	**2NKX5** *
	1,770	182/4	230/460V AC	2.7/1.30	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	14 ¼ in	Dayton	36VE91	**36VE91** *†
	1,170	182/4	230/460V AC	2.5/1.20	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ½ in	Dayton	36VE93	**36VE93** *†
1 ½	3,450	56	230/460V AC	4.2/2.1	1.15	B	No	84 %	Premium	⅝ in	1 ⅞ in	11 3⁄16 in	Dayton	30PT93	**30PT93** *‡
	3,510	56H	230/460V AC	3.7/1.90	1.15	F	Yes	84 %	Premium	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	31LH32	**31LH32** †‡
	1,760	56H	230/460V AC	4.2/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 1⁄16 in	Dayton	31LH33	**31LH33** †
	1,725	56H	230/460V AC	4.7/2.4	1.15	B	Yes	86.5 %	Premium	⅝ in	1 ⅞ in	13 7⁄16 in	Dayton	31TT13	**31TT13** *‡
	3,510	143/5T	230/460V AC	3.7/1.90	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	11 3⁄16 in	Weg	00156OT3E143T-S	**33HN89**
	1,760	143/5T	230/460V AC	4.1/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Weg	00158OT3E145T-S	**33HN91**
	3,525	143-5T/56HZ	230/460V AC	3.8/1.90	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKY4	**2NKY4** *
	1,750	143-5T/56HZ	208-230/460V AC	4.5-4.3/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKX7	**2NKX7** *
	1,770	182/4	230/460V AC	4.1/2.00	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ½ in	Dayton	36VE92	**36VE92** *†
	1,170	182/4	230/460V AC	4.6/2.3	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	14 ¼ in	Dayton	36VE94	**36VE94** *†
	1,165	182/4T	230/460V AC	4.5/2.2	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	13 ½ in	Dayton	36VF34	**36VF34** *†
2	3,510	56H	230/460V AC	5.3/2.7	1.15	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 11⁄16 in	Dayton	31LH34	**31LH34** †
	3,450	56H	230/460V AC	5.4/2.7	1.15	B	Yes	85.5 %	Premium	⅝ in	1 ⅞ in	12 11⁄16 in	Dayton	31TT07	**31TT07** *‡
	1,725	56H	230/460V AC	6.0/3.0	1.15	B	Yes	86.5 %	Premium	⅝ in	1 ⅞ in	13 7⁄16 in	Dayton	31TT22	**31TT22** *‡
	3,510	143/5T	230/460V AC	4.8/2.4	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 in	Weg	00236OT3E145T-S	**33HN99**
	1,740	143/5T	230/460V AC	5.4/2.7	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Weg	00218OT3E145T-S	**33HN95**
	3,515	143-5T/56HZ	230/460V AC	5.0/2.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKX9	**2NKX9** *
	1,745	143-5T/56HZ	230/460V AC	5.6/2.8	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKY2	**2NKY2** *
	3,520	182/4	230/460V AC	5.1/2.2	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ½ in	Dayton	36VE98	**36VE98** *†
	1,750	182/4	230/460V AC	6.2/3.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅛ in	Dayton	2N982	**2N982** *†
	1,165	182/4T	230/460V AC	5.9/2.9	1.15	F	Yes	87.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 ¾ in	Dayton	36VF35	**36VF35** *†
	1,170	213/5	230/460V AC	6.2/3.1	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	3 in	16 13⁄16 in	Dayton	2N990	**2N990** *†
3	1,735	56H	230/460V AC	8.1/4.0	1.15	F	Yes	86.9 %	Premium	⅝ in	1 ⅞ in	13 1⁄16 in	Dayton	31LH35	**31LH35** †‡
	3,480	143/5T	230/460V AC	7.2/3.6	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Weg	00336OT3E145T-S	**33HP06**
	3,490	143-5T/56HZ	230/460V AC	7.4/3.7	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13⁄16 in	Dayton	2NKY6	**2NKY6** *
	1,760	143-5T/56HZ	230/460V AC	8.1/4.0	1.15	F	—	90.2 %	NEMA Prem.	⅞ in	2 ¼ in	16 ⅛ in	Dayton	41D773	**41D773** *†
	3,445	182/4	230/460V AC	7.8/3.9	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ½ in	Dayton	36VE99	**36VE99** *†
	1,770	182/4T	208-230/460V AC	8.3-7.8/3.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 15⁄16 in	13 11⁄16 in	Dayton	2NKY8	**2NKY8** *
	1,765	182/4T	230/460V AC	7.7/3.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 3⁄16 in	Weg	00318OT3E182T-S	**33HP02**
	1,740	213/5	230/460V AC	7.9/3.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	3 in	16 13⁄16 in	Dayton	2N983	**2N983** *†
	1,180	213/5	230/460V AC	8.6/4.4	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	3 in	16 3⁄16 in	Dayton	36VE95	**36VE95** *†
	1,175	213/5T	230/460V AC	8.3/4.1	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 ⅝ in	Dayton	36VF36	**36VF36** *†
5	3,520	182/4T	208-230/460V AC	12.2/6.1	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 ¾ in	Dayton	36VF37	**36VF37** *†
	3,510	182/4T	230/460V AC	12.2/6.10	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 ¾ in	Weg	00536OT3E182T-S	**33HP12**
	1,760	182/4T	230/460V AC	12.7/6.3	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 ⅜ in	Dayton	36VF38	**36VF38** *†
	1,760	182/4T	230/460V AC	12.7/6.3	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 5⁄16 in	Weg	00518OT3E184T-S	**33HP08**
	3,550	213/5	230/460V AC	12.0/6.0	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	3 in	16 3⁄16 in	Dayton	36VF01	**36VF01** *†
	1,740	213/5	230/460V AC	12.7/6.4	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	3 in	16 13⁄16 in	Dayton	2N984	**2N984** *†
	1,175	213/5T	230/460V AC	13.4/6.7	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 in	Dayton	36VF39	**36VF39** *†
	1,180	254/6U	230/460V AC	14.6/7.3	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ¾ in	20 ¼ in	Dayton	36VE96	**36VE96** *†

** 60/50 Hz. † Usable at 200V at 1.0 SF. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

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Dayton WEG NEMA Premium 2015 SMALL MOTOR LEGISLATION

3-Phase NEMA Frame Rigid Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Open Dripproof with Steel Frame (Cont.)															
7 ½	3,500	182/4T	230/460V AC	17.3/8.6	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 3/16 in	Dayton	36VF40	**36VF40** *†
	3,500	182/4T	230/460V AC	17.3/8.7	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 3/16 in	Weg	00736OT3E184T-S	**33HP18**
	3,540	213/5	230/460V AC	17.8/8.9	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	3 in	16 3/16 in	Dayton	36VF02	**36VF02** *†
	1,770	213/5T	230/460V AC	18.5/9.2	1.15	F	Yes	91 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 ⅝ in	Dayton	36VF41	**36VF41** *†
	1,770	213/5T	230/460V AC	18.5/9.25	1.15	F	Yes	91 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 9/16 in	Weg	00718OT3E213T-S	**33HP14**
	1,175	254/6T	230/460V AC	20.4/10.2	1.15	F	Yes	90.2 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Dayton	36VF06	**36VF06** *†
	1,770	254/6U	230/460V AC	18.8/9.4	1.15	F	Yes	91 %	NEMA Prem.	1 ⅜ in	3 ¾ in	21 13/16 in	Dayton	2N985	**2N985** *†
10	3,535	213/5T	230/460V AC	23.3/11.6	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 in	Dayton	36VF42	**36VF42** *†
	3,535	213/5T	230/460V AC	24.0/12.0	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	17 in	Weg	01036OT3E213T-S	**33HP24**
	1,770	213/5T	230/460V AC	24.8/12.4	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	17 ¾ in	Dayton	36VF43	**36VF43** *†
	1,770	213/5T	230/460V AC	24.8/12.4	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 9/16 in	Weg	01018OT3E215T-S	**33HP20**
	1,180	254/6T	230/460V AC	27.8/13.9	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Dayton	36VF07	**36VF07** *†
	3,540	254/6U	230/460V AC	23.4/11.7	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ¾ in	20 ¼ in	Dayton	36VF03	**36VF03** *†
	1,770	254/6U	230/460V AC	25.7/12.9	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ¾ in	21 13/16 in	Dayton	2N986	**2N986** *†
15	3,535	213/5T	230/460V AC	34.4/17.2	1.15	F	Yes	90.2 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	17 ¾ in	Weg	01536OT3E215T-S	**33HP26**
	3,530	213/5T	230/460V AC	34.0/17.0	1.15	F	Yes	90.2 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	18 15/16 in	Dayton	36VF44	**36VF44** *†
	1,775	254/6T	230/460V AC	37.2/18.6	1.15	F	Yes	93 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Weg	01518OT3E254T-S	**33HM95**
	1,770	254/6T	230/460V AC	36.4/18.2	1.15	F	Yes	93 %	NEMA Prem.	1 ⅝ in	4 in	22 ½ in	Dayton	4GZC4	**4GZC4** *
20	3,530	254/6T	230/460V AC	44.7/22.3	1.15	F	Yes	91 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Dayton	36VF08	**36VF08** *†
	1,770	254/6T	230/460V AC	48.5/24.3	1.15	F	Yes	93 %	NEMA Prem.	1 ⅝ in	4 in	22 ½ in	Dayton	4GZC7	**4GZC7** *
25	3,530	254/6T	230/460V AC	58.2/29.1	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Dayton	36VF09	**36VF09** *†
	1,765	284/6T	230/460V AC	58.8/29.4	1.15	F	Yes	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	25 ⅜ in	Dayton	4GZD1	**4GZD1** *
Open Dripproof with Cast Iron Frame															
20	3,535	254T	230/460V AC	48.6/24.3	1.25	F	—	91 %	NEMA Prem.	1 ⅝ in	4 in	20 9/16 in	Weg	02036OT3E254T-W40	**1XTX3**
	1,765	256T	230/460V AC	48.2/24.1	1.25	F	—	93 %	NEMA Prem.	1 ⅝ in	4 in	22 5/16 in	Weg	02018OT3E256T-W40	**1XTX2**
25	3,535	256T	230/460V AC	57.6/28.8	1.25	F	—	91.7 %	NEMA Prem.	1 ⅝ in	4 in	22 5/16 in	Weg	02536OT3E256T-W40	**1XTX5**
	1,770	284T	230/460V AC	59.0/29.5	1.25	F	—	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	23 3/16 in	Weg	02518OT3E284T-W40	**1XTX4**
30	3,545	284TS	230/460V AC	70.0/35.0	1.15	F	Yes	92.4 %	NEMA Prem.	1 ⅝ in	3 ¼ in	21 13/16 in	Weg	03036OT3E284TS-W40	**1XTX7**
	1,770	286T	230/460V AC	69.8/34.9	1.25	F	Yes	94.1 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	24 11/16 in	Weg	03018OT3E286T-W40	**1XTX6**
40	3,540	286TS	230/460V AC	93.6/46.8	1.15	F	—	93 %	NEMA Prem.	1 ⅝ in	3 ¼ in	23 5/16 in	Weg	04036OT3E286TS-W40	**1XTX9**
	1,775	324T	230/460V AC	95.2/47.6	1.15	F	Yes	94.1 %	NEMA Prem.	2 ⅛ in	5 ¼ in	25 13/16 in	Weg	04018OT3E324T-W40	**1XTX8**
50	3,560	324TS	230/460V AC	113.0/56.5	1.15	F	Yes	93 %	NEMA Prem.	1 ⅞ in	3 ¾ in	27 1/16 in	Dayton	4GZD9	**4GZD9**
	3,555	324TS	230/460V AC	117.0/58.7	1.15	F	—	93.6 %	NEMA Prem.	1 ⅞ in	3 ¾ in	24 5/16 in	Weg	05036OT3E324TS-W40	**1XTY2**
	1,780	326T	230/460V AC	118.0/59	1.15	F	Yes	94.5 %	NEMA Prem.	2 ⅛ in	5 ¼ in	28 9/16 in	Dayton	4GZE1	**4GZE1**
	1,775	326T	230/460V AC	117.0/58.5	1.15	F	—	94.5 %	NEMA Prem.	2 ⅛ in	5 ¼ in	27 5/16 in	Weg	05018OT3E326T-W40	**1XTY1**
60	3,555	326TS	230/460V AC	142.0/71.0	1.15	F	—	93.6 %	NEMA Prem.	1 ⅞ in	3 ¾ in	25 13/16 in	Weg	06036OT3E326TS-W40	**1XTY4**
	1,780	364T	230/460V AC	140.0/69.9	1.15	F	—	95 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	29 ⅝ in	Weg	06018OT3E364T-W40	**1XTY3**
75	1,780	364/5T	230/460V AC	171.0/85.5	1.15	F	—	95 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	29 ⅝ in	Weg	07518OT3E365T-W40	**1XTY5**
	3,550	364TS	230/460V AC	170.0/84.4	1.15	F	—	94.1 %	NEMA Prem.	1 ⅞ in	3 ¾ in	27 ½ in	Weg	07536OT3E364TS-W40	**1XTY6**
100	3,550	365TS	230/460V AC	232.0/116.0	1.15	F	—	93.6 %	NEMA Prem.	1 ⅞ in	3 ¾ in	27 ½ in	Weg	10036OT3E365TS-W40	**1XTZ6**
	1,780	404T	230/460V AC	230.0/115.0	1.15	F	—	95.4 %	NEMA Prem.	2 ⅞ in	7 ¼ in	34 ⅛ in	Weg	10018OT3E404T-W40	**1XTY7**
125	3,550	404TS	230/460V AC	272.0/136.0	1.15	F	—	94.1 %	NEMA Prem.	2 ⅛ in	4 ¼ in	31 ⅛ in	Weg	12536OT3E404TS-W40	**1XTZ7**
	1,780	405T	230/460V AC	276.0/138.0	1.15	F	—	95.4 %	NEMA Prem.	2 ⅞ in	7 ¼ in	34 ⅛ in	Weg	12518OT3E405T-W40	**1XTY8**
150	3,555	405TS	460V AC	162.0	1.15	F	—	94.5 %	NEMA Prem.	2 ⅛ in	4 ¼ in	31 ⅛ in	Weg	15036OT3G405TS	**1XTZ8**
	1,785	444T	460V AC	166.0	1.15	F	—	95.8 %	NEMA Prem.	3 ⅜ in	8 ½ in	39 13/16 in	Weg	15018OT3G444T	**1XTY9**
200	3,575	444TS	230/460V AC	228.0	1.15	F	—	95 %	NEMA Prem.	2 ⅜ in	4 ¾ in	36 1/16 in	Weg	20036OT3G444TS	**1XTZ9**
	1,780	445T	230/460V AC	229.0	1.15	F	—	95.8 %	NEMA Prem.	3 ⅜ in	8 ½ in	39 13/16 in	Weg	20018OT3G445T	**1XTZ1**
Totally Enclosed Nonventilated with Steel Frame															
¼	1,725	48	208-230/460V AC	1.10-1.10/0.50	1	B	Yes	69.7 %	Premium	½ in	1 ½ in	9 1/16 in	Dayton	3N349	**3N349** *
⅓	3,450	48	208-230/460V AC	1.20-1.10/0.60	1.15	B	Yes	72 %	Premium	½ in	1 ½ in	9 ¼ in	Dayton	3N854	**3N854** *
	1,725	48	208-230/460V AC	1.30-1.30/0.70	1	B	Yes	72 %	Premium	½ in	1 ½ in	10 1/16 in	Dayton	3N350	**3N350** *
	1,765	56	208-230/460V AC	1.50-1.40/0.70	1	F	Yes	72 %	Premium	⅝ in	1 ⅞ in	10 3/16 in	Dayton	3N694	**3N694** *
½	1,755	56	208-230/460V AC	1.90/1.80-1.00	1.15	F	Yes	78.5 %	Premium	⅝ in	1 ⅞ in	10 3/16 in	Dayton	3N695	**3N695** *
¾	1,725	56	208-230/460V AC	2.9-2.8/1.40	1.15	B	Yes	81.1 %	Premium	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	3N696	**3N696** *
1	1,750	56H	230/460V AC	3.1-3.0/1.50	1.25	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	11 ⅛ in	Dayton	48ZJ83	**48ZJ83** *†
Totally Enclosed Fan-Cooled with Steel Frame															
¼	3,475	56	208-230/460V AC	1.00-0.91/0.46	1.15	F	Yes	57.5 %	—	⅝ in	1 ⅞ in	11 ⅛ in	Weg	.2536ES3E56-S	**35JF93**
	1,765	56	208-230/460V AC	1.20-1.00/0.52	1.15	F	Yes	70 %	—	⅝ in	1 ⅞ in	11 ⅛ in	Weg	.2518ES3E56-S	**35JF94**
⅓	3,485	56	208-230/460V AC	1.30-1.20/0.60	1.15	F	Yes	62 %	—	⅝ in	1 ⅞ in	11 ⅛ in	Weg	.3336ES3E56-S	**35JF95**
	1,765	56	230/460V AC	1.50/0.70	1.25	F	Yes	72 %	Standard	⅝ in	2 ¼ in	11 11/16 in	Dayton	2N864	**2N864** *
	1,765	56	208-230/460V AC	1.40-1.30/0.62	1.15	F	Yes	74 %	—	⅝ in	1 ⅞ in	11 9/16 in	Weg	.3318ES3E56-S	**35JF96**
	1,140	56	208-230/460V AC	1.40-1.40/0.70	1	B	Yes	70 %	Efficient	⅝ in	1 ⅞ in	11 ⅞ in	Dayton	2N925	**2N925** *
½	3,450	48	208-230/460V AC	2.00-2.00/1.00	1.15	B	Yes	76 %	Efficient	½ in	1 ½ in	10 3/16 in	Dayton	10C901	**10C901** *
	1,725	48	208-230/460V AC	1.90-1.90/1.00	1	B	Yes	74 %	Standard	½ in	1 ½ in	11 ¼ in	Dayton	10C897	**10C897** *
	3,500	56	208-230/460V AC	1.70-1.50/0.80	1.25	F	Yes	72 %	Standard	⅝ in	2 ¼ in	11 11/16 in	Dayton	3N442	**3N442** *
	1,745	56	208-230/460V AC	1.80-1.70/0.90	1.25	F	Yes	75.5 %	Standard	⅝ in	2 ¼ in	11 11/16 in	Dayton	2N865	**2N865** *
	1,160	56	208-230/460V AC	2.2-2.00/0.99	1.15	F	Yes	72 %	—	⅝ in	1 ⅞ in	12 5/16 in	Weg	.5012ES3E56-S	**35JF88**
	1,155	56	230/460V AC	2.00/1.00	1.25	F	Yes	77 %	Efficient	⅝ in	2 ¼ in	12 15/16 in	Dayton	2N926	**2N926** *
¾	1,725	48	208-230/460V AC	2.8-2.8/1.50	1	B	Yes	74 %	Efficient	½ in	1 ½ in	11 ½ in	Dayton	10C899	**10C899** *
	3,500	56	208-230/460V AC	2.4-2.2/1.10	1	F	Yes	75.5 %	Efficient	⅝ in	2 ¼ in	11 11/16 in	Dayton	3N443	**3N443** *
	3,475	56	208-230/460V AC	2.5-2.3/1.10	1.15	F	Yes	72 %	—	⅝ in	1 ⅞ in	11 9/16 in	Weg	.7536ES3E56-S	**35JF89**
	1,750	56	208-230/460V AC	2.7/1.30	1.25	F	Yes	78.5 %	Standard	⅝ in	2 ¼ in	11 11/16 in	Dayton	2N866	**2N866** *
	1,155	56	208-230/460V AC	2.9-2.7/1.30	1.15	F	Yes	75.5 %	—	⅝ in	1 ⅞ in	12 11/16 in	Weg	.7512ES3E56-S	**35JF91**
	1,155	56H	208-230/460V AC	3.0-2.9/1.50	1.15	F	Yes	78.5 %	Efficient	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	3N427	**3N427** *
1	3,435	56	230/460V AC	3.0/1.50	1.15	F	Yes	78.5 %	NEMA Prem.	⅝ in	1 ⅞ in	11 ⅛ in	Weg	00136ET3EW56-S	**52XR33**
	1,765	56C	230/460V AC	2.9/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 ½ in	Weg	00118ET3E56C-S	**52XR30**
	1,755	56H	230/460V AC	3.0/1.50	1.25	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ84	**48ZJ84** *†
	1,155	56H	208-230/460V AC	3.5/1.80	1.25	F	Yes	82.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ85	**48ZJ85** *†
	1,755	143-5T/56HZ	230/460V AC	3.1-3.0/1.50	1.25	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ⅜ in	13 in	Dayton	2NKX4	**2NKX4** *
	1,155	143-5T/56HZ	208-230/460V AC	3.8/1.90	1.25	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 in	Dayton	2NKX6	**2NKX6** *
	1,760	182/4	208-230/460V AC	3.4/1.70	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	15 ¼ in	Dayton	2N933	**2N933** *†
	1,170	182/4	208-230/460V AC	3.2/1.60	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	15 ⅞ in	Dayton	36VE88	**36VE88** *†
1 ½	3,465	56H	208-230/460V AC	3.9/1.9	1.15	B	Yes	84 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ86	**48ZJ86** *†
	1,755	56H	208-230/460V AC	4.3/2.1	1.25	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ88	**48ZJ88** *
	1,730	56H	208-230/460V AC	4.1/2.00	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅝ in	13 13/16 in	Dayton	6VPF0	**6VPF0** *†
	3,515	143-5T/56HZ	208-230/460V AC	4.0/2.00	1.25	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	13 in	Dayton	2NKY5	**2NKY5** *
	1,755	143-5T/56HZ	208-230/460V AC	4.5-4.3/2.2	1.25	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13/16 in	Dayton	2NKX8	**2NKX8** *
	3,455	182/4	230/460V AC	3.9/1.9	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	15 ¼ in	Dayton	2N946	**2N946** *†
	1,765	182/4	208-230/460V AC	4.4/2.2	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	15 ⅞ in	Dayton	36VF24	**36VF24** *†
	1,170	182/4	208-230/460V AC	4.5/2.2	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	16 ⅝ in	Dayton	36VE89	**36VE89** *†
	1,170	182/4T	208-230/460V AC	5.8/2.9	1.15	F	Yes	87.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 9/16 in	Dayton	4GYY7	**4GYY7** *

*** 60/50 Hz. † Usable at 200V at 1.0 SF. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.***

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Dayton | WEG | NEMA Premium | 2015 SMALL MOTOR LEGISLATION

3-Phase NEMA Frame Rigid Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Steel Frame (Cont.)															
2	3,505	56H	208-230/460V AC	5.0/2.5	1.25	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ89	**48ZJ89** *†
	1,750	56H	208-230/460V AC	5.7/2.8	1.25	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 ⅝ in	Dayton	48ZJ90	**48ZJ90** *†
	1,745	56H	208-230/460V AC	5.4/2.7	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 ⅝ in	Dayton	36VF93	**36VF93** *†
	3,505	143-5T/56HZ	230/460V AC	4.8/2.4	1.25	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ¾ in	Dayton	2NKY1	**2NKY1** *
	1,750	143-5T/56HZ	230/460V AC	5.9-5.7/2.8	1.25	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 13/16 in	Dayton	2NKY3	**2NKY3** *
	3,510	182/4	208-230/460V AC	5.4/2.7	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	15 ⅞ in	Dayton	36VF26	**36VF26** *†
	1,765	182/4	208-230/460V AC	6.0/3.0	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	15 ⅞ in	Dayton	36VF25	**36VF25** *†
	1,165	182/4T	208-230/460V AC	6.6/3.3	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 9/16 in	Dayton	4GYY8	**4GYY8** *
	1,175	213/5	208-230/460V AC	6.3/3.1	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	3 in	19 ¼ in	Dayton	2N943	**2N943** *†
3	3,510	143-5T/56HZ	208-230/460V AC	7.2/3.6	1.25	F	—	86.5 %	NEMA Prem.	⅞ in	2 in	13 in	Dayton	41D774	**41D774** *†
	3,510	182/4	208-230/460V AC	7.6/3.8	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	15 ⅞ in	Dayton	36VF27	**36VF27** *†
	1,765	182/4T	208-230/460V AC	7.6/3.8	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	17 15/16 in	Dayton	36VF28	**36VF28** *†
	3,540	182T/4T	208-230/460V AC	7.8/3.9	1.15	F	Yes	87.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 ⅞ in	Dayton	2NKY7	**2NKY7** *
	1,770	213/5	208-230/460V AC	7.8/3.9	1.15	F	Yes	87.5 %	NEMA Prem.	1 ⅛ in	3 in	18 15/16 in	Dayton	36VE86	**36VE86** *†
	1,170	213/5	208-230/460V AC	8.9/4.5	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	3 in	19 ¼ in	Dayton	2N944	**2N944** *†
	1,175	213/5T	208-230/460V AC	8.3/4.1	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 5/16 in	Dayton	36VF29	**36VF29** *†
5	3,500	182/4T	208-230/460V AC	11.8/5.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	17 15/16 in	Dayton	36VF04	**36VF04** *†
	1,750	182/4T	208-230/460V AC	13.0/6.4	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	17 15/16 in	Dayton	36VF05	**36VF05** *†
	3,485	213/5	230/460V AC	12.4/6.2	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	3 in	19 ¼ in	Dayton	2N949	**2N949** *†
	1,770	213/5	208-230/460V AC	12.4/6.2	1.15	F	Yes	87.5 %	NEMA Prem.	1 ⅛ in	3 in	18 ½ in	Dayton	36VE87	**36VE87** *†
	1,175	213/5T	208-230/460V AC	13.4/6.7	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	20 1/16 in	Dayton	36VF30	**36VF30** *†
	1,175	254/6U	208-230/460V AC	14.0/7.0	1.15	F	Yes	89.5 %	Standard	1 ⅜ in	3 ¾ in	22 5/16 in	Dayton	36VE90	**36VE90** *†
7 ½	3,540	213/5T	208-230/460V AC	17.6/8.8	1.15	F	Yes	90.2 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	20 ½ in	Dayton	36VF31	**36VF31** *†
	1,770	213/5T	208-230/460V AC	18.1/9.0	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	18 15/16 in	Dayton	36VF32	**36VF32** *†
	1,770	254/6U	208-230/460V AC	18.4/9.2	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ¾ in	23 ⅛ in	Dayton	2N938	**2N938** *†
10	3,485	213/5T	208-230/460V AC	23.9/12.0	1.15	F	Yes	91 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	20 ½ in	Dayton	4GYZ7	**4GYZ7** *
	1,755	213/5T	230/460V AC	24.4/12.2	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 5/16 in	Dayton	36VF33	**36VF33** *†
Totally Enclosed Fan-Cooled with Cast Iron Frame															
1	3,475	143T	230/460V AC	2.8/1.40	1.15	F	Yes	80 %	NEMA Prem.	⅞ in	2 ¼ in	12 5/16 in	Dayton	2MXT3	**2MXT3**
	1,760	143T	230/460V AC	2.9/1.50	1.25	F	—	84 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00118ET3E143T-W22	**6AHZ7**
	1,745	143T	230/460V AC	2.7/1.40	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 5/16 in	Dayton	2MXT4	**2MXT4**
	1,160	145T	230/460V AC	3.2/1.60	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 5/16 in	Dayton	2MXT5	**2MXT5**
	1,160	145T	230/460V AC	3.5/1.70	1.25	F	—	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00112ET3E145T-W22	**6AHZ6**
	875	182T	230/460V AC	4.6/2.3	1.25	F	—	78.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00109ET3E182T-W22	**6AHZ5**
1 ½	3,485	143T	230/460V AC	3.9/1.9	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	12 5/16 in	Dayton	2MXT6	**2MXT6**
	3,480	143T	230/460V AC	3.9/2.00	1.25	F	—	84 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00156ET3E143T-W22	**6AHZ9**
	1,755	145T	230/460V AC	4.0/2.00	1.25	F	—	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00158ET3E145T-W22	**6AJA0**
	1,740	145T	230/460V AC	4.0/2.00	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 5/16 in	Dayton	2MXT7	**2MXT7**
	865	182/4T	230/460V AC	5.4/2.7	1.25	F	—	82.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00159ET3E184T-W22	**6AJA1**
	1,180	182T	230/460V AC	4.7/2.4	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 11/16 in	Dayton	2MXT8	**2MXT8**
	1,170	182T	230/460V AC	5.1/2.5	1.25	F	—	87.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00152ET3E182T-W22	**6AHZ8**
2	3,480	145T	230/460V AC	5.0/2.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 5/16 in	Dayton	2MXT9	**2MXT9**
	3,475	145T	230/460V AC	5.1/2.6	1.25	F	—	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00236ET3E145T-W22	**6AJA5**
	1,755	145T	230/460V AC	5.5/2.8	1.25	F	—	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅜ in	Weg	00218ET3E145T-W22	**6AJA4**
	1,730	145T	230/460V AC	5.0/2.5	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 5/16 in	Dayton	2MXU1	**2MXU1**
	1,180	184T	230/460V AC	6.1/3.1	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ¾ in	Dayton	2MXU2	**2MXU2**
	1,170	184T	230/460V AC	6.44/3.22	1.25	F	—	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00212ET3E184T-W22	**6AJA3**
	875	213T	230/460V AC	6.8/3.4	1.25	F	—	85.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00209ET3E213T-W22	**6AJA2**
3	3,515	182T	230/460V AC	7.3/3.6	1.25	F	—	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00336ET3E182T-W22	**6AJA9**
	3,500	182T	230/460V AC	7.4/3.7	1.15	F	Yes	86.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 11/16 in	Dayton	2MXU3	**2MXU3**
	1,760	182T	230/460V AC	7.6/3.8	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	14 11/16 in	Dayton	2MXU4	**2MXU4**
	1,760	182T	230/460V AC	7.8/3.9	1.25	F	—	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00318ET3E182T-W22	**6AJA8**
	1,180	213T	230/460V AC	8.4/4.3	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	18 in	Dayton	2MXU5	**2MXU5**
	1,175	213T	230/460V AC	8.8/4.4	1.25	F	—	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00312ET3E213T-W22	**6AJA7**
	870	215T	230/460V AC	9.1/4.6	1.25	F	Yes	85.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00309ET3E215T-W22	**6AJA6**
5	3,500	184T	230/460V AC	12.0/6.0	1.15	F	Yes	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 3/16 in	Dayton	2MXU6	**2MXU6**
	3,485	184T	230/460V AC	11.8/5.90	1.25	F	—	88.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00536ET3E184T-W22	**6AJC3**
	1,755	184T	230/460V AC	12.9/6.5	1.25	F	—	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ⅞ in	Weg	00518ET3E184T-W22	**6AJC2**
	1,750	184T	230/460V AC	12.4/6.2	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	15 ¾ in	Dayton	2MXU7	**2MXU7**
	1,175	215T	208-230/460V AC	13.8/6.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Dayton	2MXU8	**2MXU8**
	1,170	215T	230/460V AC	13.7/6.8	1.25	F	—	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00512ET3E215T-W22	**6AJC1**
	882	254T	230/460V AC	15.2/7.6	1.25	F	—	87.5 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	00509ET3E254T-W22	**6AJC0**
7 ½	3,520	213T	230/460V AC	17.5/8.8	1.25	F	—	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00736ET3E213T-W22	**6AJC6**
	3,510	213T	230/460V AC	17.8/8.9	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	18 in	Dayton	2MXU9	**2MXU9**
	1,770	213T	230/460V AC	19.6/9.8	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	18 in	Dayton	2MXV1	**2MXV1**
	1,765	213T	230/460V AC	18.4/9.2	1.25	F	—	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	00718ET3E213T-W22	**6AJC5**
	1,175	254T	230/460V AC	19.0/9.48	1.25	F	—	91 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	00712ET3E254T-W22	**6AJC4**
	1,165	254T	230/460V AC	20.9/10.4	1.15	F	Yes	91 %	NEMA Prem.	1 ⅝ in	4 in	23 11/16 in	Dayton	2MXV2	**2MXV2**
10	3,510	215T	230/460V AC	23.2/11.6	1.25	F	—	90.2 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	01036ET3E215T-W22	**6AJC9**
	3,505	215T	230/460V AC	23.0/11.5	1.15	F	Yes	90.2 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Dayton	2MXV3	**2MXV3**
	1,770	215T	230/460V AC	25.8/12.9	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Dayton	2MXV4	**2MXV4**
	1,765	215T	230/460V AC	24.8/12.4	1.25	F	—	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	19 ½ in	Weg	01018ET3E215T-W22	**6AJC8**
	1,180	256T	230/460V AC	27.8/13.9	1.15	F	Yes	91 %	NEMA Prem.	1 ⅝ in	4 in	25 7/16 in	Dayton	2MXV5	**2MXV5**
	1,175	256T	230/460V AC	26.6/13.3	1.25	F	—	91 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	01012ET3E256T-W22	**6AJC7**
15	1,765	254/6T	230/460V AC	36.0/18.0	1.25	F	—	92.4 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	01518ET3E254T-W22	**6AJD1**
	3,540	254T	230/460V AC	35.5/17.7	1.15	F	Yes	91 %	NEMA Prem.	1 ⅝ in	4 in	23 11/16 in	Dayton	2MXV6	**2MXV6**
	3,530	254T	230/460V AC	34.4/17.2	1.25	F	—	91 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	01536ET3E254T-W22	**6AJD2**
	1,770	254T	230/460V AC	37.5/18.8	1.15	F	Yes	92.4 %	NEMA Prem.	1 ⅝ in	4 in	26 1/16 in	Dayton	2MXV7	**2MXV7**
	1,175	284T	230/460V AC	35.8/17.9	1.25	F	—	91.7 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	27 15/16 in	Weg	01512ET3E284T-W22	**6AJD0**
20	3,535	256T	230/460V AC	47.3/23.6	1.15	F	Yes	91 %	NEMA Prem.	1 ⅝ in	4 in	25 7/16 in	Dayton	2MXV9	**2MXV9**
	3,520	256T	230/460V AC	46.4/23.2	1.25	F	—	91 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	02036ET3E256T-W22	**6AJD5**
	1,770	256T	230/460V AC	48.5/24.3	1.15	F	Yes	93 %	NEMA Prem.	1 ⅝ in	4 in	27 13/16 in	Dayton	2MXW1	**2MXW1**
	1,765	256T	230/460V AC	48.2/24.1	1.25	F	—	93 %	NEMA Prem.	1 ⅝ in	4 in	24 15/16 in	Weg	02018ET3E256T-W22	**6AJD4**
	1,175	286T	230/460V AC	48.4/24.2	1.25	F	—	91.7 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	27 15/16 in	Weg	02012ET3E286T-W22	**6AJD3**
25	1,775	284T	230/460V AC	61.8/30.9	1.15	F	Yes	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	30 1/16 in	Dayton	2MXW4	**2MXW4**
	1,765	284T	230/460V AC	59.0/29.5	1.25	F	—	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	27 15/16 in	Weg	02518ET3E284T-W22	**6AJD7**
	3,550	284TS	230/460V AC	58/29	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅝ in	3 ¼ in	25 7/16 in	Dayton	2MXW3	**2MXW3**
	3,545	284TS	230/460V AC	57.0/28.5	1.25	F	—	91.7 %	NEMA Prem.	1 ⅝ in	3 ¼ in	26 9/16 in	Weg	02536ET3E284TS-W22	**6AJD8**
	1,180	324T	230/460V AC	61.6/30.8	1.25	F	—	93 %	NEMA Prem.	2 ⅛ in	5 ¼ in	31 ⅛ in	Weg	02512ET3E324T-W22	**6AJD6**
30	1,770	286T	230/460V AC	73.2/36.6	1.15	F	Yes	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	31 ¼ in	Dayton	2MXW7	**2MXW7**
	1,765	286T	230/460V AC	70.2/35.1	1.25	F	Yes	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	27 15/16 in	Weg	03018ET3E286T-W22	**6AJE0**
	3,550	286TS	230/460V AC	68.8/34.4	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅝ in	3 ¼ in	28 15/16 in	Dayton	2MXW6	**2MXW6**
	3,535	286TS	230/460V AC	67.6/33.8	1.25	F	Yes	91.7 %	NEMA Prem.	1 ⅝ in	3 ¼ in	26 9/16 in	Weg	03036ET3E286TS-W22	**6AJE1**
	1,180	326T	230/460V AC	72.4/36.2	1.25	F	Yes	93 %	NEMA Prem.	2 ⅛ in	5 ¼ in	31 ⅛ in	Weg	03012ET3E326T-W22	**6AJD9**

** 60/50 Hz. † Usable at 200V at 1.0 SF. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.*

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Dayton WEG NEMA Premium 2015 SMALL MOTOR LEGISLATION

3-Phase NEMA Frame Rigid Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Cast Iron Frame (Cont.)															
40	1,775	324T	230/460V AC	94.8/47.4	1.15	F	Yes	94.1 %	NEMA Prem.	2 ⅛ in	5 ¼ in	29 15⁄16 in	Dayton	2MXX1	**2MXX1**
	1,770	324T	230/460V AC	94.2/47.1	1.25	F	—	94.1 %	NEMA Prem.	2 ⅛ in	5 ¼ in	31 ⅛ in	Weg	04018ET3E324T-W22	**6AJE3**
	3,560	324TS	230/460V AC	91.0/45.5	1.15	F	Yes	92.4 %	NEMA Prem.	1 ⅞ in	3 ¾ in	28 7⁄16 in	Dayton	2MXW9	**2MXW9**
	3,555	324TS	230/460V AC	91.6/45.8	1.25	F	—	92.4 %	NEMA Prem.	1 ⅞ in	3 ¾ in	29 ⅝ in	Weg	04036ET3E324TS-W22	**6AJE4**
	1,185	364/5T	230/460V AC	93.0/46.5	1.25	F	—	94.1 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	34 7⁄16 in	Weg	04012ET3E364T-W22	**6AJE2**
50	1,780	326T	230/460V AC	119.0/59.5	1.15	F	Yes	94.5 %	NEMA Prem.	2 ⅛ in	5 ¼ in	31 7⁄16 in	Dayton	2MXX4	**2MXX4**
	1,775	326T	230/460V AC	118.0/59.2	1.25	F	—	94.5 %	NEMA Prem.	2 ⅛ in	5 ¼ in	31 ⅛ in	Weg	05018ET3E326T-W22	**6AJE6**
	3,550	326TS	230/460V AC	112.0/56.1	1.25	F	—	93 %	NEMA Prem.	1 ⅞ in	3 ¾ in	29 ⅝ in	Weg	05036ET3E326TS-W22	**6AJE7**
	1,180	364/5T	230/460V AC	115.0/57.4	1.25	F	—	94.1 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	34 7⁄16 in	Weg	05012ET3E365T-W22	**6AJE5**
60	1,775	364/5T	230/460V AC	143.0/71.6	1.25	F	—	95 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	34 7⁄16 in	Weg	06018ET3E364T-W22	**6AJE9**
	3,560	364/5TS	230/460V AC	134.0/67.0	1.25	F	—	93.6 %	NEMA Prem.	1 ⅞ in	3 ¾ in	32 5⁄16 in	Weg	06036ET3E364TS-W22	**6AJF0**
	1,180	404/5T	230/460V AC	139.0/69.5	1.25	F	—	94.5 %	NEMA Prem.	2 ⅞ in	7 ¼ in	39 ¾ in	Weg	06012ET3E404T-W22	**6AJE8**
75	1,775	364/5T	230/460V AC	168.0/84.1	1.25	F	—	95.4 %	NEMA Prem.	2 ⅜ in	5 ⅞ in	34 7⁄16 in	Weg	07518ET3E365T-W22	**6AJF2**
	3,555	364/5TS	230/460V AC	164.0/81.9	1.25	F	—	93.6 %	NEMA Prem.	1 ⅞ in	3 ¾ in	32 5⁄16 in	Weg	07536ET3E365TS-W22	**6AJF3**
	1,180	404/5T	230/460V AC	170.0/84.9	1.25	F	—	94.5 %	NEMA Prem.	2 ⅞ in	7 ¼ in	39 ¾ in	Weg	07512ET3E405T-W22	**6AJF1**
100	1,775	404/5T	230/460V AC	222.0/111.0	1.25	F	—	95.4 %	NEMA Prem.	2 ⅞ in	7 ¼ in	39 ¾ in	Weg	10018ET3E405T-W22	**6AJF5**
	3,555	404/5TS	230/460V AC	220.0/110.0	1.25	F	—	94.1 %	NEMA Prem.	2 ⅛ in	4 ¼ in	36 ¾ in	Weg	10036ET3E405TS-W22	**6AJF6**
	1,185	444/5T	230/460V AC	242.0/121.0	1.25	F	—	95 %	NEMA Prem.	3 ⅜ in	8 ½ in	45 3⁄16 in	Weg	10012ET3E444T-W22	**6AJF4**
125	1,780	444/5T	230/460V AC	139.0	1.15	F	—	95.4 %	NEMA Prem.	3 ⅜ in	8 ½ in	45 3⁄16 in	Weg	12518ET3G444T-W22	**6AJF8**
	1,185	444/5T	230/460V AC	143.0	1.15	F	—	95 %	NEMA Prem.	3 ⅜ in	8 ½ in	45 3⁄16 in	Weg	12512ET3G445T-W22	**6AJF7**
	3,570	444/5TS	230/460V AC	134.0	1.15	F	—	95 %	NEMA Prem.	2 ⅜ in	4 ¾ in	41 7⁄16 in	Weg	12536ET3G444TS-W22	**6AJF9**
150	1,780	444/5T	460V AC	170.0	1.15	F	—	95.8 %	NEMA Prem.	3 ⅜ in	8 ½ in	45 3⁄16 in	Weg	15018ET3G445T-W22	**6AJG0**
	3,570	444/5TS	460V AC	163.0	1.15	F	—	95 %	NEMA Prem.	2 ⅜ in	4 ¾ in	41 7⁄16 in	Weg	15036ET3G445TS-W22	**6AJG1**
200	1,785	445/7T	460V AC	230.0	1.15	F	—	96.2 %	NEMA Prem.	3 ⅜ in	8 ½ in	48 ¾ in	Weg	20018ET3G447T-W22	**6AJG2**
	3,570	445/7TS	460V AC	219.0	1.15	F	—	95.4 %	NEMA Prem.	2 ⅜ in	4 ¾ in	44 15⁄16 in	Weg	20036ET3G447TS-W22	**6AJG3**

***** 60/50 Hz. † Usable at 200V at 1.0 SF. ‡ Complies with 2015 efficiency legislation for small-frame motors; see page 5 for more information.***

40Z949

marathon Motors NEMA Premium

3-Phase NEMA Frame Rigid Base-Mount Motors with Aegis Rings

- Totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: none
- Voltage: 230/460
- Service factor: 1.15
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C
- 1-yr. warranty

Bearing protection rings provide a grounding path to divert currents away from bearings to ground. Design prevents bearing fluting damage for motors controlled by variable frequency drives. Cast-iron frame. Suitable for use on blowers, compressors, conveyors, pumps, and other machinery in dirty and dusty environments.

HP	Nameplate RPM	Frame	Full Load Amps	Ins. Class	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Mfr. Model	Item No.
1 ½	1,755	145T	4.6/2.3	F	86.5 %	⅞ in	2 9⁄16 in	14 in	145TTFN16046	**40Z949**
2	1,755	145T	6.0/3.0	F	86.5 %	⅞ in	2 9⁄16 in	14 in	145TTFN16045	**40Z950**
3	1,765	182T	8.0/4.0	F	82.5 %	1 ⅛ in	2 ¾ in	15 ⅞ in	182TTFCD6070	**40Z951**
5	1,755	184T	12.4/6.2	F	81.5 %	1 ⅛ in	2 ¾ in	17 ⅞ in	184TTFCD6070	**40Z952**
7 ½	1,765	213T	19.2/9.6	H	91.7 %	1 ⅜ in	3 ½ in	19 ⅝ in	213TTFCD6070	**482P73**
10	1,765	215T	26.6/13.3	F	91.7 %	1 ⅜ in	3 ½ in	22 ⅝ in	215TTFCD6070	**482R04**
15	1,775	254T	37.5/18.8	F	94.5 %	1 ⅝ in	4 in	23 ½ in	254TTFCD6070	**40Z955**
20	1,775	256T	48.0/24.1	F	94.5 %	1 ⅝ in	4 in	25 ¼ in	256TTFCD6070	**40Z956**
25	1,775	284T	62.0/31.0	F	95.4 %	1 ⅞ in	4 ⅝ in	26 5⁄16 in	284TTFCD6070	**40Z957**
30	1,775	286T	73.0/36.5	F	95.4 %	1 ⅞ in	4 ⅝ in	27 13⁄16 in	286TTFCD6070	**40Z958**
40	1,780	324T	95.0/47.5	F	95.8 %	2 ⅛ in	5 ¼ in	30 ⅜ in	324TTDBD6070	**40Z959**
50	1,775	326T	120.0/60.0	F	96.2 %	2 ⅛ in	5 ¼ in	31 ⅞ in	326TTDBD6070	**40Z960**

40Z956

ÆGIS® SGR BEARING PROTECTION RING

NEMA Frame Shaft Grounding Rings

Help extend motor life by deflecting variable frequency drive (VFD) shaft voltage before it can damage shaft bearings. Protect both motor bearings and the bearings in attached equipment. Aluminum construction. Include mounting brackets.

1-Piece
14R028

Fits Shaft Dia.	For Use With	1-PIECE Item No.	SPLIT RING Item No.
Grounding Rings			
⅝ in	Motor Frame 56	**14R028**	**41D790**
⅞ in	Motor Frames 143T, 145T	**14R029**	**41D791**
1 ⅛ in	Motor Frames 182T, 184T	**14R030**	**41D792**
1 ⅜ in	Motor Frames 213T, 215T	**14R031**	**41D793**
1 ⅝ in	Motor Frames 254T, 256T, 284TS, 286TS	**14R032**	**41D794**
1 ⅞ in	Motor Frames 284T, 286T, 324TS, 326TS, 364TS, 365TS	**14R033**	**41D795**
2 ⅛ in	Motor Frames 324T, 326T, 404TS, 405TS	**14R034**	**41D796**
2 ⅜ in	Motor Frames 364T, 365T, 444TS, 445TS, 447TS, 449TS	**14R035**	**41D797**
2 ⅞ in	Motor Frames 404T, 405T	**14R036**	**41D798**
3 ⅜ in	Motor Frames 444T, 445T, 447T, 449T	—	**41D799**
Conductive Mounting Epoxy			
5 min., 0.5 oz		**14C789**	—

Split Ring
41D790

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Open Dripproof with Face/ Base-Mount 31LH59

Totally Enclosed Fan-Cooled with Face-Mount 3N841

3-Phase NEMA Frame Face- & Face/Base-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Bearings: ball
- Max. ambient temp.: 40°C
- Warranty: 1 yr. on Dayton and Marathon; 3 yr. on Weg
- Usable at 208V

These motors power pumps, ventilation equipment, speed reducers, machine tools, and other shaft-end-mounted industrial equipment. They operate with a higher torque and greater efficiency than single-phase models of the same HP, rpm, and frame size.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Open Dripproof with Face/Base-Mount, Steel Frame															
¼	1,720	56C	230/460V AC	1.00/0.50	1.35	F	Yes	69.5 %	Premium	⅝ in	1 ⅞ in	9 15/16 in	Dayton	31LH54	**31LH54** †
⅓	3,510	56C	230/460V AC	1.10/0.60	1.35	F	Yes	72 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH56	**31LH56** †
	1,765	56C	230/460V AC	1.30/0.68	1.35	F	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH57	**31LH57** †
	1,140	56C	230/460V AC	1.50/0.70	1.35	F	Yes	71.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH58	**31LH58** †
½	3,490	56C	230/460V AC	1.60/0.81	1.25	F	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH59	**31LH59** †
	1,765	56C	230/460V AC	1.70/0.86	1.25	F	Yes	78.2 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH60	**31LH60** †
	1,155	56C	230/460V AC	2.00/0.99	1.25	F	Yes	75.3 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH61	**31LH61** †
¾	3,485	56C	230/460V AC	2.3/1.10	1.25	F	Yes	76.8 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH62	**31LH62** †
	1,760	56C	230/460V AC	2.3/1.20	1.25	F	Yes	81.1 %	Premium	⅝ in	1 ⅞ in	11 ⅛ in	Dayton	31LH63	**31LH63** †
	1,160	56HC	230/460V AC	2.5/1.30	1.15	F	Yes	81.7 %	Premium	⅝ in	1 ⅞ in	11 ½ in	Dayton	31LH64	**31LH64** †
1	3,470	56C	230/460V AC	3.0/1.50	1.25	F	Yes	77 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH65	**31LH65** †
	1,760	56HC	230/460V AC	3.1/1.60	1.15	F	Yes	83.5 %	Premium	⅝ in	1 ⅞ in	11 ½ in	Dayton	31LH66	**31LH66** †
	1,760	143/5TC	230/460V AC	3.0/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	11 9/16 in	Dayton	36VF51	**36VF51**
	3,520	143-5TC/56HCZ	230/460V AC	2.9/1.50	1.15	F	Yes	80 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU22	**31TU22** †
	1,755	143-5TC/56HCZ	230/460V AC	3.1/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU23	**31TU23** †
	1,165	143-5TC/56HCZ	230/460V AC	4.0/2.00	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU24	**31TU24** †
1 ½	3,510	56C	230/460V AC	3.7/1.90	1.15	F	Yes	84 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH67	**31LH67** †
	1,760	56HC	230/460V AC	4.3/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 1/16 in	Dayton	31LH68	**31LH68** †
	1,760	143/5TC	230/460V AC	4.1/2.00	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Dayton	36VF52	**36VF52**
	1,760	143/5TC	230/460V AC	4.1/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Weg	00158OT3E145TC-S	**33HN92**
	3,525	143-5TC/56HCZ	230/460V AC	3.8/1.90	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU25	**31TU25** †
	1,750	143-5TC/56HCZ	230/460V AC	4.2/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU26	**31TU26** †
2	3,510	56HC	230/460V AC	4.8/2.4	1.15	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	12 11/16 in	Dayton	31LH69	**31LH69** †
	3,510	56HC	230/460V AC	4.8/2.4	1.15	F	Yes	85.5 %	Premium	⅝ in	1 ⅞ in	12 11/16 in	Dayton	31LH70	**31LH70** †
	1,740	56HC	230/460V AC	5.4/2.7	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 1/16 in	Dayton	31LH71	**31LH71** †
	3,450	143/5TC	230/460V AC	5.0/2.5	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 in	Dayton	36VF12	**36VF12**
	1,740	143/5TC	230/460V AC	5.3/2.6	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Dayton	36VF53	**36VF53**
	3,515	143-5TC/56HCZ	230/460V AC	5.0/2.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU27	**31TU27** †
	1,745	143-5TC/56HCZ	230/460V AC	5.6/2.8	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU28	**31TU28** †
3	3,450	143/5TC	230/460V AC	7.1/3.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ⅜ in	Dayton	36VF13	**36VF13**
	3,490	143-5TC/56HCZ	230/460V AC	7.4/3.7	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ¼ in	Dayton	31TU29	**31TU29** †
	1,750	143-5TC/56HCZ	230/460V AC	7.6/3.8	1.15	F	Yes	89.5 %	NEMA Prem.	⅞ in	2 ⅛ in	15 ¼ in	Dayton	31TU30	**31TU30** †
5	1,760	182/4TC	230/460V AC	12.7/6.3	1.15	F	Yes	89.5 %	NEMA Prem.	1 ⅛ in	2 ⅝ in	16 5/16 in	Weg	00518OT3E184TC-S	**33HP09**
7 ½	1,770	213/5TC	230/460V AC	18.5/9.25	1.15	F	Yes	91 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 9/16 in	Weg	00718OT3E213TC-S	**33HP15**
10	1,770	213/5TC	230/460V AC	24.8/12.4	1.15	F	Yes	91.7 %	NEMA Prem.	1 ⅜ in	3 ⅜ in	16 9/16 in	Weg	01018OT3E215TC-S	**33HP21**
15	1,775	254/6TC	230/460V AC	37.2/18.6	1.15	F	Yes	93 %	NEMA Prem.	1 ⅝ in	4 in	20 ½ in	Weg	01518OT3E254TC-S	**33HN04**
Open Dripproof with Face/Base-Mount, Cast Iron Frame															
20	1,765	256TC	230/460V AC	48.2/24.1	1.25	F	—	93 %	NEMA Prem.	1 ⅝ in	4 in	22 13/16 in	Weg	02018OT3E256TC-W40	**12N922**
25	1,770	284TC	230/460V AC	59.0/29.5	1.25	F	—	93.6 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	23 3/16 in	Weg	02518OT3E284TC-W40	**12N924**
30	1,770	286TC	230/460V AC	69.8/34.9	1.25	F	—	94.1 %	NEMA Prem.	1 ⅞ in	4 ⅝ in	24 11/16 in	Weg	03018OT3E286TC-W40	**12N926**
Open Dripproof with Face-Mount, Steel Frame															
¼	3,520	56C	230/460V AC	0.80/0.40	1.35	F	Yes	72 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH36	**31LH36** †
	1,765	56C	230/460V AC	1.10/0.53	1.35	F	Yes	69.5 %	Premium	⅝ in	1 ⅞ in	9 15/16 in	Dayton	31LH37	**31LH37** †
	1,160	56C	230/460V AC	1.10/0.55	1.35	F	Yes	67.5 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH38	**31LH38** †
⅓	3,510	56C	230/460V AC	1.10/0.60	1.35	F	Yes	72 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH39	**31LH39** †
	3,450	56C	208-230/460V AC	1.80/0.90	1.75	B	—	61 %	Standard	⅝ in	1 ⅞ in	9 ⅞ in	Marathon	5K35FN55	**3N817**
	1,765	56C	230/460V AC	1.30/0.68	1.35	F	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH40	**31LH40** †
	1,160	56C	230/460V AC	1.50/0.76	1.35	F	Yes	71.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH41	**31LH41** †
½	3,490	56C	230/460V AC	1.60/0.81	1.25	F	Yes	73.4 %	Premium	⅝ in	1 ⅞ in	10 5/16 in	Dayton	31LH42	**31LH42** †
	3,450	56C	208-230/460V AC	2.00/1.00	1.6	B	—	69.9 %	Standard	⅝ in	1 ⅞ in	10 5/16 in	Marathon	5K36JN57	**6MA11**
	1,765	56C	230/460V AC	1.70/0.86	1.25	F	Yes	78.2 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH43	**31LH43** †
	1,155	56C	230/460V AC	2.00/0.99	1.25	F	Yes	72 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH44	**31LH44** †
¾	3,485	56C	230/460V AC	2.3/1.10	1.25	F	Yes	76.8 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH45	**31LH45** †
	3,450	56C	208-230/460V AC	2.6/1.30	1.5	B	—	74 %	Standard	⅝ in	1 ⅞ in	10 11/16 in	Marathon	5K37MN37	**3N819**
	1,760	56C	230/460V AC	2.3/1.20	1.25	F	Yes	81.1 %	Premium	⅝ in	1 ⅞ in	11 ⅛ in	Dayton	31LH46	**31LH46** †
	1,150	56C	230/460V AC	2.6/1.30	1.15	F	Yes	81.7 %	Premium	⅝ in	1 ⅞ in	12 11/16 in	Dayton	31LH47	**31LH47** †
1	3,470	56C	230/460V AC	3.0/1.50	1.25	F	Yes	77 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH48	**31LH48** †
	3,450	56C	208-230/460V AC	3.2/1.60	1.4	B	—	79 %	Standard	⅝ in	1 ⅞ in	11 5/16 in	Marathon	5K38PN47	**3N820**
	1,760	56C	230/460V AC	3.1/1.60	1.15	F	Yes	83.5 %	Premium	⅝ in	1 ⅞ in	11 ½ in	Dayton	31LH49	**31LH49** †
	1,760	143/5TC	230/460V AC	3.2/1.60	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	11 9/16 in	Dayton	36VF45	**36VF45** *†
	1,140	145TC	230/460V AC	3.3/1.70	1.15	F	Yes	82.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 ¼ in	Dayton	4THU1	**4THU1** *
1 ½	3,510	56C	230/460V AC	3.7/1.90	1.15	F	Yes	84 %	Premium	⅝ in	1 ⅞ in	10 11/16 in	Dayton	31LH50	**31LH50** †
	3,450	56C	208-230/460V AC	5.0-4.8/2.4	1.3	B	—	77 %	Standard	⅝ in	1 ⅞ in	10 5/16 in	Marathon	5K46KN2173	**3N821**
	1,760	56C	230/460V AC	4.3/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 1/16 in	Dayton	31LH51	**31LH51** †
	3,465	143/5TC	230/460V AC	3.7/1.80	1.15	F	Yes	84 %	NEMA Prem.	⅞ in	2 ¼ in	11 9/16 in	Dayton	36VF46	**36VF46** *†
	1,755	143/5TC	230/460V AC	4.3/2.2	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	11 9/16 in	Dayton	36VF47	**36VF47** *†
2	3,450	56C	208-230/460V AC	6.0/3.0	1.2	B	—	85.8 %	Standard	⅝ in	1 ⅞ in	11 5/16 in	Marathon	5K49NN2180	**3N822**
	1,740	56C	230/460V AC	5.4/2.7	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 1/16 in	Dayton	31LH52	**31LH52** †
	3,500	143/5TC	230/460V AC	5.0/2.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	11 9/16 in	Dayton	36VF48	**36VF48** *†
	1,745	143/5TC	230/460V AC	5.8/2.9	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 in	Dayton	36VF49	**36VF49** *†
	1,750	145TC	230/460V AC	6.0/3.0	1.15	B	No	86.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 ½ in	Marathon	145TTDR16359	**53UF35** *
3	3,450	56C	208-230/460V AC	8.9-8.2/4.1	1.15	B	—	84 %	Standard	⅝ in	1 ⅞ in	12 ⅝ in	Marathon	5K48TN2182	**3N823**
	3,475	143/5TC	230/460V AC	7.3/3.6	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	12 in	Dayton	36VF50	**36VF50** *†
	3,510	145TC	230/460V AC	7.6/3.8	1.15	B	No	87.5 %	NEMA Prem.	⅞ in	2 ⅛ in	13 in	Marathon	145TTDR16319	**52XR47** *
	1,750	182TC	230/460V AC	8.3/4.2	1.15	F	—	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	16 ¼ in	Dayton	11W342	**11W342** *
Totally Enclosed Fan-Cooled with Face/Base-Mount, Steel Frame															
¼	3,460	56C	230/460V AC	0.76/0.38	1.15	F	Yes	74 %	Efficient	⅝ in	1 ⅞ in	11 15/16 in	Dayton	36VF17	**36VF17**
	1,720	56C	230/460V AC	1.00/0.50	1.15	F	Yes	68 %	Standard	⅝ in	1 ⅞ in	10 9/16 in	Dayton	11W365	**11W365** *
	1,160	56C	230/460V AC	1.00/0.55	1.15	F	Yes	68 %	Standard	⅝ in	1 ⅞ in	11 ⅛ in	Dayton	36VF18	**36VF18**
	1,140	56C	208-230/460V AC	2.00-1.70/1.00	1.15	F	—	52.5 %	Standard	⅝ in	2 1/16 in	11 5/16 in	Marathon	056T11F5311	**30E461** *#

** 60/50 Hz. † Usable at 200V at 1.0 SF. # Removable base.*

CONTINUED

CONTINUED

3-Phase NEMA Frame Face- & Face/Base-Mount Motors

Dayton | WEG | marathon Motors | NEMA Premium

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Face/Base-Mount, Steel Frame (Cont.)															
1/3	1,765	56C	230/460V AC	1.20/0.62	1.15	F	Yes	74 %	Standard	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF75	**36VF75**
	1,725	56C	208-230/460V AC	1.60/0.80	1.35	B	—	69.2 %	Standard	5/8 in	1 7/8 in	11 in	Marathon	5K42FN4035	**6N055** *
	1,140	56C	230/460V AC	1.50/0.70	1.15	F	—	68 %	Standard	5/8 in	1 7/8 in	12 1/8 in	Dayton	11W368	**11W368** *
	1,140	56C	208-230/460V AC	2.2-1.90/1.10	1.15	F	—	62 %	Standard	5/8 in	2 1/16 in	11 5/16 in	Marathon	056T11F5310	**30E462** *#
1/2	3,450	56C	208-230/460V AC	2.2-2.00/1.10	1.25	B	—	66 %	Standard	5/8 in	2 1/16 in	11 13/16 in	Marathon	056T34F5308	**30E441** #
	3,450	56C	208-230/460V AC	2.2-2.00/1.10	1.15	F	—	66 %	Standard	5/8 in	2 1/16 in	11 13/16 in	Marathon	056T34F5301	**41W478**
	3,435	56C	230/460V AC	1.60/0.78	1.15	F	Yes	72.5 %	Efficient	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF76	**36VF76**
	1,760	56C	230/460V AC	1.70/0.86	1.15	F	Yes	77 %	Standard	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF77	**36VF77**
	1,160	56C	230/460V AC	1.90/0.99	1.15	F	Yes	72 %	Standard	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF78	**36VF78**
	1,140	56C	208-230/460V AC	2.7-2.4/1.40	1.15	F	—	68 %	Standard	5/8 in	2 1/16 in	11 13/16 in	Marathon	056T11F5309	**30E463** *#
3/4	3,520	56C	230/460V AC	2.2/1.10	1.15	F	Yes	76.8 %	Efficient	5/8 in	1 7/8 in	11 15/16 in	Dayton	36VF79	**36VF79**
	3,450	56C	208-230/460V AC	3.2-3.0/1.60	1.15	F	—	74 %	Standard	5/8 in	2 1/16 in	11 13/16 in	Marathon	056T34F5302	**30E457** *#
	1,720	56C	230/460V AC	2.4/1.20	1.15	F	Yes	78.5 %	Standard	5/8 in	1 7/8 in	11 15/16 in	Dayton	36VF80	**36VF80**
	1,140	56C	208-230/460V AC	3.2-3.2/1.60	1.15	F	—	74 %	Standard	5/8 in	2 1/16 in	12 5/16 in	Marathon	056T11F5308	**30E464** *#
	1,135	56C	230/460V AC	3.0/1.50	1.15	F	Yes	75.5 %	Standard	5/8 in	1 7/8 in	12 13/16 in	Dayton	4THZ5	**4THZ5** *
1	3,520	56C	230/460V AC	2.8/1.40	1.15	F	Yes	77.5 %	NEMA Prem.	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF81	**36VF81** *†
	1,145	56C	230/460V AC	3.3/1.60	1.15	F	Yes	82.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/2 in	Dayton	36VF84	**36VF84** *†
	1,765	56HC	230/460V AC	2.9/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 7/8 in	Dayton	48ZK03	**48ZK03**
	1,765	143/5TC	230/460V AC	2.9/1.40	1.15	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF83	**36VF83**
	1,145	143/5TC	230/460V AC	3.1/1.50	1.15	F	Yes	82.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF85	**36VF85**
	3,525	143-5TC/56HCZ	230/460V AC	2.7/1.40	1.15	F	Yes	81.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU31	**31TU31** †
	1,755	143-5TC/56HCZ	230/460V AC	3.0/1.50	1.25	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU32	**31TU32** †
	1,155	143-5TC/56HCZ	230/460V AC	3.5/1.80	1.25	F	Yes	82.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU33	**31TU33** †
1 1/2	3,470	56C	230/460V AC	3.8/1.90	1.15	F	Yes	84 %	NEMA Prem.	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF86	**36VF86** *†
	3,450	56C	230/460V AC	4.0/2.00	1.15	F	No	84 %	NEMA Prem.	5/8 in	2 1/16 in	13 5/16 in	Marathon	056T34F99017	**53DE13** *
	1,750	56C	230/460V AC	4.4/2.2	1.15	F	Yes	86.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/8 in	Dayton	36VF88	**36VF88** *†
	3,510	143/5TC	230/460V AC	3.8/1.90	1.15	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/16 in	Dayton	36VF87	**36VF87**
	1,750	143/5TC	230/460V AC	4.0/2.00	1.15	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF89	**36VF89**
	3,505	143-5TC/56HCZ	230/460V AC	3.9/1.9	1.25	F	Yes	84 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU34	**31TU34** †
	1,755	143-5TC/56HCZ	230/460V AC	4.3/2.1	1.25	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU35	**31TU35** †
	1,170	182TC	230/460V AC	4.4/2.2	1.15	F	—	87.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	16 9/16 in	Dayton	11W369	**11W369** *
2	3,480	56HC	230/460V AC	5.2/2.6	1.15	F	Yes	85.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/8 in	Dayton	36VF90	**36VF90** *†
	3,450	56HC	230/460V AC	5.0/2.5	1.15	F	No	85.5 %	NEMA Prem.	5/8 in	2 1/16 in	9 3/16 in	Marathon	056T34F99012	**53DE14** *
	1,745	56HC	230/460V AC	5.7/2.8	1.15	F	Yes	86.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/2 in	Dayton	36VF21	**36VF21** *†
	3,505	143/5TC	230/460V AC	5.1/2.6	1.15	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 7/8 in	Dayton	4TJA8	**4TJA8** *
	1,745	143/5TC	230/460V AC	5.4/2.7	1.15	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	14 in	Dayton	36VF20	**36VF20**
	3,505	143-5TC/56HCZ	230/460V AC	4.9/2.5	1.25	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU36	**31TU36** †
	1,750	143-5TC/56HCZ	230/460V AC	5.7/2.9	1.25	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU37	**31TU37** †
3	3,490	143/5TC	230/460V AC	7.1/3.5	1.15	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	15 3/16 in	Dayton	36VF91	**36VF91**
	3,490	143-5TC/56HCZ	230/460V AC	7.2/3.6	1.25	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/8 in	13 1/8 in	Dayton	31TU38	**31TU38** †
	1,765	182/4TC	230/460V AC	7.6/3.8	1.15	F	Yes	89.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	17 15/16 in	Dayton	36VF22	**36VF22**
Totally Enclosed Fan-Cooled with Face/Base-Mount, Cast Iron Frame															
1	3,500	143TC	230/460V AC	2.9/1.40	1.25	F	—	81.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00136ET3E143TC-W22	**6FDP4**
	1,760	143TC	230/460V AC	2.9/1.50	1.25	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00118ET3E143TC-W22	**6PTP7**
1 1/2	3,480	143TC	230/460V AC	3.9/2.00	1.25	F	Yes	84 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00156ET3E143TC-W22	**6FDT0**
	1,755	145TC	230/460V AC	4.0/2.00	1.25	F	—	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00158ET3E145TC-W22	**6FDP5**
2	3,475	145TC	230/460V AC	5.1/2.6	1.25	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00236ET3E145TC-W22	**6FDP7**
	1,755	145TC	230/460V AC	5.5/2.8	1.25	F	—	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 3/8 in	Weg	00218ET3E145TC-W22	**6FDP6**
3	3,515	182TC	230/460V AC	7.3/3.6	1.25	F	Yes	86.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	15 7/8 in	Weg	00336ET3E182TC-W22	**6FDP9**
	1,760	182TC	230/460V AC	7.8/3.9	1.25	F	Yes	89.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	15 7/8 in	Weg	00318ET3E182TC-W22	**6FDP8**
5	3,485	184TC	230/460V AC	11.8/5.90	1.25	F	Yes	88.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	15 7/8 in	Weg	00536ET3E184TC-W22	**6FDR1**
	1,755	184TC	230/460V AC	12.9/6.5	1.25	F	Yes	89.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	15 7/8 in	Weg	00518ET3E184TC-W22	**6FDR0**
7 1/2	3,520	213TC	230/460V AC	17.5/8.8	1.25	F	Yes	89.5 %	NEMA Prem.	1 3/8 in	3 3/8 in	19 1/2 in	Weg	00736ET3E213TC-W22	**6FDR3**
	1,765	213TC	230/460V AC	18.4/9.2	1.25	F	Yes	91.7 %	NEMA Prem.	1 3/8 in	3 3/8 in	19 1/2 in	Weg	00718ET3E213TC-W22	**6FDR2**
10	3,510	215TC	230/460V AC	23.2/11.6	1.25	F	Yes	90.2 %	NEMA Prem.	1 3/8 in	3 3/8 in	19 1/2 in	Weg	01036ET3E215TC-W22	**6FDR5**
	1,765	215TC	230/460V AC	24.8/12.4	1.25	F	Yes	91.7 %	NEMA Prem.	1 3/8 in	3 3/8 in	19 1/2 in	Weg	01018ET3E215TC-W22	**6FDR4**
15	1,765	254/6TC	230/460V AC	36.0/18.0	1.25	F	Yes	92.4 %	NEMA Prem.	1 5/8 in	4 in	24 15/16 in	Weg	01518ET3E254TC-W22	**6FDR6**
	3,530	254TC	230/460V AC	34.4/17.2	1.25	F	Yes	91 %	NEMA Prem.	1 5/8 in	4 in	24 15/16 in	Weg	01536ET3E254TC-W22	**6FDR7**
20	3,520	256TC	230/460V AC	46.4/23.2	1.25	F	Yes	91 %	NEMA Prem.	1 5/8 in	4 in	24 15/16 in	Weg	02036ET3E256TC-W22	**6FDR9**
	1,765	256TC	230/460V AC	48.2/24.1	1.25	F	Yes	93 %	NEMA Prem.	1 5/8 in	4 in	24 15/16 in	Weg	02018ET3E256TC-W22	**6FDR8**
25	1,765	284TC	230/460V AC	59.0/29.5	1.25	F	Yes	93.6 %	NEMA Prem.	1 7/8 in	4 5/8 in	27 15/16 in	Weg	02518ET3E284TC-W22	**6FDT2**
	3,545	284TSC	230/460V AC	57.0/28.5	1.25	F	Yes	91.7 %	NEMA Prem.	1 5/8 in	3 1/4 in	26 9/16 in	Weg	02536ET3E284TSC-W22	**6FDT1**
30	1,765	286TC	230/460V AC	70.2/35.1	1.25	F	Yes	93.6 %	NEMA Prem.	1 7/8 in	4 5/8 in	27 15/16 in	Weg	03018ET3E286TC-W22	**6FDT4**
	3,535	286TSC	230/460V AC	67.6/33.8	1.25	F	Yes	91.7 %	NEMA Prem.	1 5/8 in	3 1/4 in	26 9/16 in	Weg	03036ET3E286TSC-W22	**6FDT3**
40	1,770	324TC	230/460V AC	94.2/47.1	1.25	F	Yes	94.1 %	NEMA Prem.	2 1/8 in	5 1/4 in	31 1/8 in	Weg	04018ET3E324TC-W22	**6FDT6**
	3,555	324TSC	230/460V AC	91.6/45.8	1.25	F	Yes	92.4 %	NEMA Prem.	1 7/8 in	3 3/4 in	29 5/8 in	Weg	04036ET3E324TSC-W22	**6FDT5**
50	1,775	326TC	230/460V AC	118.0/59.2	1.25	F	Yes	94.5 %	NEMA Prem.	2 1/8 in	5 1/4 in	31 1/8 in	Weg	05018ET3E326TC-W22	**6FDT8**
	3,550	326TSC	230/460V AC	112.0/56.1	1.25	F	Yes	93 %	NEMA Prem.	1 7/8 in	3 3/4 in	29 5/8 in	Weg	05036ET3E326TSC-W22	**6FDT7**
60	1,775	364/5TC	230/460V AC	143.0/71.6	1.25	F	Yes	95 %	NEMA Prem.	2 3/8 in	5 7/8 in	34 7/16 in	Weg	06018ET3E364TC-W22	**6FDU0**
	3,560	364/5TSC	230/460V AC	134.0/67.0	1.25	F	Yes	93.6 %	NEMA Prem.	1 7/8 in	3 3/4 in	32 5/16 in	Weg	06036ET3E364TSC-W22	**6FDT9**
75	1,775	364/5TC	230/460V AC	174.0/87.2	1.25	F	Yes	95.4 %	NEMA Prem.	2 3/8 in	5 7/8 in	34 7/16 in	Weg	07518ET3E365TC-W22	**6FDU2**
	3,555	364/5TSC	230/460V AC	164.0/81.9	1.25	F	Yes	93.6 %	NEMA Prem.	1 7/8 in	3 3/4 in	32 5/16 in	Weg	07536ET3E365TSC-W22	**6FDU1**
Totally Enclosed Fan-Cooled with Face-Mount, Steel Frame															
1/4	1,725	42CZ	230/460V AC	1.20/0.60	1.15	B	Yes	66 %	Standard	1/2 in	1 1/8 in	9 3/16 in	Dayton	3N841	**3N841** *
	3,460	56C	230/460V AC	0.76/0.38	1.15	F	Yes	74 %	Efficient	5/8 in	1 7/8 in	11 15/16 in	Dayton	36VF14	**36VF14**
	1,160	56C	230/460V AC	1.00/0.55	1.15	F	Yes	68 %	Standard	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF55	**36VF55**
1/3	1,725	42CZ	230/460V AC	1.50/0.75	1.15	B	Yes	70.7 %	Standard	1/2 in	1 1/8 in	10 7/16 in	Dayton	3N842	**3N842** *
	3,500	56C	208-230/460V AC	1.20-1.10/0.55	1.15	F	Yes	69.5 %	Efficient	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF56	**36VF56**
	1,765	56C	230/460V AC	1.20/0.62	1.15	F	Yes	74 %	Standard	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF57	**36VF57**
	1,140	56C	230/460V AC	1.50/0.70	1.15	F	Yes	70 %	Standard	5/8 in	1 7/8 in	12 1/8 in	Dayton	4THW4	**4THW4** *
1/2	3,530	56C	230/460V AC	1.40/0.70	1.15	F	Yes	73.4 %	Premium	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF15	**36VF15**
	1,760	56C	230/460V AC	1.70/0.86	1.15	F	Yes	77 %	Standard	5/8 in	1 7/8 in	11 9/16 in	Dayton	36VF58	**36VF58**
	1,160	56C	230/460V AC	1.90/0.99	1.15	F	Yes	72 %	Standard	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF59	**36VF59**
3/4	3,520	56C	230/460V AC	2.2/1.10	1.15	F	Yes	76.8 %	Efficient	5/8 in	1 7/8 in	11 15/16 in	Dayton	36VF16	**36VF16**
	1,755	56C	230/460V AC	2.4/1.20	1.15	F	Yes	78.5 %	Standard	5/8 in	1 7/8 in	11 15/16 in	Dayton	36VF60	**36VF60**
	1,135	56C	230/460V AC	3.0/1.50	1.15	F	Yes	75.5 %	Standard	5/8 in	1 7/8 in	12 7/8 in	Dayton	4THW8	**4THW8** *
1	3,520	56C	230/460V AC	2.8/1.40	1.15	F	Yes	77.5 %	NEMA Prem.	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF61	**36VF61** *†
	1,765	56C	230/460V AC	2.9/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 7/8 in	Dayton	48ZK02	**48ZK02**
	1,725	56C	230/460V AC	3.3/1.60	1.25	B	No	85.5 %	NEMA Prem.	5/8 in	1 7/8 in	14 1/8 in	Marathon	056T17F15660	**53UF25** *
	1,145	56C	230/460V AC	3.3/1.60	1.15	F	Yes	82.5 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/2 in	Dayton	36VF64	**36VF64** *†
	1,760	143/5TC	230/460V AC	3.1/1.50	1.15	F	Yes	85.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF63	**36VF63** *†
	1,140	145TC	230/460V AC	3.3/1.70	1.15	F	Yes	82.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 7/8 in	Dayton	4THX5	**4THX5** *
1 1/2	3,470	56C	230/460V AC	4.0/2.00	1.15	F	Yes	84 %	NEMA Prem.	5/8 in	1 7/8 in	12 5/16 in	Dayton	36VF65	**36VF65** *†
	1,750	56C	230/460V AC	4.4/2.2	1.15	F	Yes	86 %	NEMA Prem.	5/8 in	1 7/8 in	13 1/8 in	Dayton	36VF67	**36VF67** *†
	1,725	56C	230/460V AC	4.6/2.3	1.15	B	No	86.5 %	NEMA Prem.	5/8 in	1 15/16 in	14 5/8 in	Marathon	056T17F15657	**53DE17** *
	3,480	143/5TC	230/460V AC	3.8/1.90	1.15	F	Yes	84 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF66	**36VF66** *†
	1,760	143/5TC	230/460V AC	4.3/2.1	1.15	F	Yes	86.5 %	NEMA Prem.	7/8 in	2 1/4 in	13 5/8 in	Dayton	36VF68	**36VF68** *†
	1,170	182/4TC	230/460V AC	4.4/2.2	1.15	F	No	87.5 %	NEMA Prem.	1 1/8 in	2 3/4 in	16 5/16 in	Dayton	48ZK04	**48ZK04**

** 60/50 Hz. † Usable at 200V at 1.0 SF. # Removable base.*

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3-Phase NEMA Frame Face- & Face/Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Face-Mount, Steel Frame (Cont.)															
2	3,480	56C	230/460V AC	5.2/2.6	1.15	F	Yes	85.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 ⅛ in	Dayton	36VF69	**36VF69** *†
	1,745	56C	230/460V AC	5.7/2.8	1.15	F	Yes	86.5 %	NEMA Prem.	⅝ in	1 ⅞ in	13 ½ in	Dayton	36VF71	**36VF71** *†
	3,500	143/5TC	230/460V AC	5.1/2.5	1.15	F	Yes	85.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 ⅝ in	Dayton	36VF70	**36VF70** *†
	1,755	143/5TC	230/460V AC	5.9/2.9	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	13 13⁄16 in	Dayton	36VF72	**36VF72** *†
3	3,480	143/5TC	230/460V AC	7.1/3.5	1.15	F	Yes	86.5 %	NEMA Prem.	⅞ in	2 ¼ in	14 ⅜ in	Dayton	36VF73	**36VF73** *†
	1,765	182/4TC	230/460V AC	7.6/3.8	1.15	F	No	89.5 %	NEMA Prem.	1 ⅛ in	2 ¾ in	17 15⁄16 in	Dayton	48ZK01	**48ZK01**
Totally Enclosed Nonventilated with Face/Base-Mount, Steel Frame															
⅓	3,450	56C	208-230/460V AC	1.80-1.60/0.90	1.15	F	—	65 %	Standard	⅝ in	2 1⁄16 in	10 7⁄16 in	Marathon	056T34T5303	**30E456** *#
Totally Enclosed Nonventilated with Face-Mount, Steel Frame															
¼	1,780	56C	230/460V AC	1.40/0.70	1.15	F	Yes	68.5 %	Standard	⅝ in	1 ⅞ in	10 11⁄16 in	Dayton	36VF54	**36VF54**
	1,725	56C	208-230/460V AC	1.20/0.60	1.35	B	—	67.4 %	Standard	⅝ in	1 ⅞ in	9 ½ in	Marathon	5K49DN4130	**5N114**

*** 60/50 Hz. † Usable at 200V at 1.0 SF. # Removable base.***

Totally Enclosed Fan-Cooled with Aluminum Frame 26VX23

Totally Enclosed Fan-Cooled with Cast Iron Frame 10G858

3-Phase IEC Frame Metric Face/ Base- & Rigid Base-Mount Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C

These motors power compressors, conveyors, fans, and pumps that require International Electrotechnical Commission (IEC) electrical standards. They meet a standard set of electrical, dimensional, and performance requirements based on kilowatt (kW) ratings. They operate with a higher torque and greater efficiency than single-phase models of the same HP, rpm, and frame size.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Face/Base-Mount, Aluminum Frame														
¼	1,700	63C	230/460V AC	1.00/0.50	1.15	Yes	68 %	Standard	11 mm	23 mm	217 mm	Marathon	063T17FH5402	**26VX23**
⅓	1,130	80	230/460V AC	1.30/0.65	1.15	Yes	70 %	Standard	14 mm	30 mm	240 mm	Marathon	080T11FH5506	**26VX67**
½	1,695	71	230/460V AC	1.80/0.90	1.15	Yes	74 %	Standard	14 mm	30 mm	240 mm	Marathon	071T17FH5408	**26VX28**
	1,695	71	230/460V AC	1.80/0.90	1.15	Yes	74 %	Standard	14 mm	30 mm	240 mm	Marathon	071T17FH5508	**26VX64**
1	1,740	80C	230/460V AC	3.0/1.50	1.15	—	85.5 %	NEMA Prem.	19 mm	40 mm	302 mm	Marathon	080T17FH15414	**53UF66**
	1,740	80D	230/460V AC	3.0/1.50	1.15	—	85.5 %	NEMA Prem.	19 mm	40 mm	302 mm	Marathon	080T17FH15514	**53UF68**
1 ½	1,755	90S	460V AC	2.1	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984005	**482V66**
2	1,755	90L	460V AC	2.8	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984012	**482V72**
	1,745	90L	230/460V AC	5.4/2.7	1.15	Yes	86.5 %	NEMA Prem.	24 mm	50 mm	326 mm	Marathon	090LT17FH6419	**26VX38**
	1,745	90L	230/460V AC	5.4/2.7	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	326 mm	Marathon	090LT17FH6519	**26VX74**
	3,485	90S	460V AC	2.7	1.25	—	85.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984008	**482V70**
3	3,500	90L	230/460V AC	7.2/3.6	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	326 mm	Marathon	090LT34FH6420	**26VX39**
	3,500	90L	230/460V AC	7.2/3.6	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	326 mm	Marathon	090LT34FH6520	**26VX75**
	3,480	90L	460V AC	3.9	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984021	**482V77**
7 ½	3,545	132S	460V AC	9.0	1.25	—	89.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984840	**482V88**
Totally Enclosed Fan-Cooled with Face/Base-Mount, Cast Iron Frame														
25	3,550	160L	460V AC	29.9	1.25	—	92.4 %	NEMA Prem.	42 mm	110 mm	642 mm	Weg	01836ET3Y160LFF-W22	**10G894**
	1,775	180M	460V AC	30.6	1.25	—	93.6 %	NEMA Prem.	42 mm	110 mm		Weg	01818ET3Y180MFF-W22	**10G893**
30	1,775	180L	460V AC	36.0	1.25	—	93.6 %	NEMA Prem.	42 mm	110 mm	702 mm	Weg	02218ET3Y180LFF-W22	**10G898**
50	3,570	200L	460V AC	59.8	1.25	—	93.6 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	03736ET3Y200LFF-W22	**10G904**
75	3,600	250S/M	460V AC	80.3	1.25	—	94.5 %	NEMA Prem.	60 mm	140 mm		Weg	05536ET3Y250S/MFF-W2	**10G909**
Totally Enclosed Fan-Cooled with Rigid Base-Mount, Aluminum Frame														
¼	1,700	63	230/460V AC	1.00/0.50	1.15	Yes	68 %	Standard	11 mm	23 mm	217 mm	Marathon	063T17FH5326	**24ME07**
	3,430	63M	575V AC	0.33	1.15	Yes	72 %	Standard	11 mm	23 mm	217 mm	Marathon	063T34FH5303	**24ME11**
	1,700	63M	575V AC	0.43	1.15	Yes	68 %	Standard	11 mm	23 mm	217 mm	Marathon	063T17FH5327	**24ME08**
⅓	3,430	63	230/460V AC	1.10/0.55	1.15	Yes	72 %	Standard	11 mm	23 mm	217 mm	Marathon	063T34FH5302	**24ME10**
½	3,410	71	575V AC	0.66	1.15	—	74 %	Standard	14 mm	30 mm	240 mm	Marathon	071T34FH5303	**24ME18**
	1,695	71	230/460V AC	1.80/0.90	1.15	Yes	74 %	Standard	14 mm	30 mm	240 mm	Marathon	071T17FH5327	**24ME15**
	1,695	71M	575V AC	0.74	1.15	Yes	74 %	Efficient	14 mm	30 mm	240 mm	Marathon	071T17FH5331	**24ME17**
¾	3,400	71	575V AC	0.91	1.15	Yes	74 %	Standard	14 mm	30 mm	240 mm	Marathon	071T34FH5304	**24ME21**
	1,690	80	230/460V AC	2.5/1.30	1.15	Yes	74 %	NEMA Prem.	19 mm	40 mm	282 mm	Marathon	80T17FH5326	**24ME25**
1	3,470	80	460V AC	1.50	1.25	—	81.5 %	NEMA Prem.	19 mm	40 mm	276 mm	Weg	13984003	**482V63**
	3,420	80	575V AC	1.20	1.15	—	77 %	NEMA Prem.	19 mm	40 mm	282 mm	Marathon	080T34FH15305	**53UF69**
	1,740	80	230/460V AC	3.0/1.50	1.15	—	85.5 %	NEMA Prem.	19 mm	40 mm	302 mm	Marathon	080T17FH15327	**53UF64**
	1,155	90S	460V AC	1.70	1.25	—	82.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984000	**482V61**
	1,155	D90S	230/460V AC	3.2/1.60	1.15	Yes	82.5 %	NEMA Prem.	24 mm	50 mm	12 13⁄16 in	Leeson	192200.00	**5PGH2**
1 ½	3,450	80	460V AC	2.00	1.25	—	84 %	NEMA Prem.	19 mm	40 mm	276 mm	Weg	13984006	**482V67**
	3,450	80M	575V AC	1.60	1.15	Yes	74.8 %	NEMA Prem.	19 mm	40 mm	282 mm	Marathon	080T34FH5303	**24ME31**
	1,755	90S	460V AC	2.1	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984004	**482V65**
2	1,755	90L	460V AC	2.8	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984010	**482V71**
	1,745	90L	230/460V AC	5.4/2.7	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	341 mm	Marathon	090LT17FH6326	**24ME33**
	3,485	90S	460V AC	2.7	1.25	—	85.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984007	**482V69**
3	3,500	90L	230/460V AC	7.2/3.6	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	341 mm	Marathon	090LT34FH6301	**24ME90**
	3,480	90L	460V AC	3.9	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	13984020	**482V76**
	3,500	90S	575V AC	3.0	1.15	Yes	87.5 %	NEMA Prem.	24 mm	50 mm	341 mm	Marathon	090LT34FH6302	**24ME91**
	1,750	100L	460V AC	4.1	1.25	—	89.5 %	NEMA Prem.	28 mm	60 mm	376 mm	Weg	13984015	**482V75**
	1,175	132S	460V AC	4.4	1.25	—	89.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984829	**482V74**
	870	132S	460V AC	4.8	1.25	—	85.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984666	**482V73**
4	3,515	100L	460V AC	5.0	1.25	—	88.5 %	NEMA Prem.	28 mm	60 mm	376 mm	Weg	13984024	**482V81**
	1,740	100L	460V AC	5.3	1.25	—	89.5 %	NEMA Prem.	28 mm	60 mm	418 mm	Weg	13984023	**482V80**
	1,175	132M	460V AC	6.0	1.25	—	89.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984832	**482V79**
	870	132M	460V AC	6.5	1.25	—	86.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984831	**482V78**
5 ½	3,515	112M	460V AC	6.7	1.25	—	88.5 %	NEMA Prem.	28 mm	60 mm	393 mm	Weg	13984837	**482V84**
	1,755	112M	460V AC	7.3	1.25	—	89.5 %	NEMA Prem.	28 mm	60 mm	393 mm	Weg	13984835	**482V83**
	1,165	132M	460V AC	7.9	1.25	—	89.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984833	**482V82**
7 ½	3,545	132S	460V AC	9.0	1.25	—	89.5 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984839	**482V87**
	1,775	132S	460V AC	9.1	1.25	—	91.7 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984838	**482V86**

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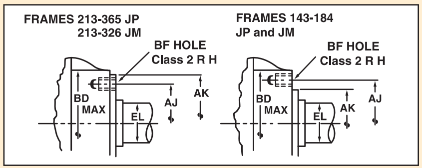
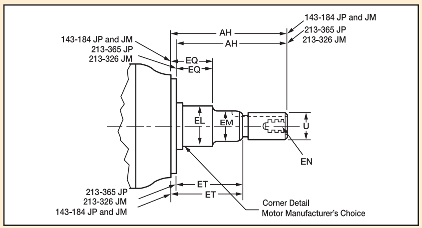
For assistance with motor selection, see pages 3 to 7.

3-Phase IEC Frame Metric Face/ Base- & Rigid Base-Mount Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Inverter Rated	Nom. Efficiency	Motor Efficiency Group	Shaft Dia.	Shaft Length	Overall Length	Brand	Mfr. Model	Item No.
Totally Enclosed Fan-Cooled with Rigid Base-Mount, Aluminum Frame (Cont.)														
10	1,770	132M	460V AC	12.4	1.25	—	91.7 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984841	**482V90**
	3,540	132S	460V AC	12.3	1.25	—	90.2 %	NEMA Prem.	38 mm	80 mm	490 mm	Weg	13984842	**482V91**
Totally Enclosed Fan-Cooled with Rigid Base-Mount, Cast Aluminum Frame														
1	1,760	90S/L	460V AC	1.40	1.25	—	85 %	NEMA Prem.	24 mm	50 mm		Weg	13523076	**482V62**
1 ½	1,165	100L	230/460V AC	4.6/2.3	1.25	—	87.5 %	NEMA Prem.	28 mm	60 mm		Weg	13734168	**482V64**
	1,160	100L	460V AC	3.0	1.25	—	88.5 %	NEMA Prem.	28 mm	60 mm		Weg	12836725	**482V68**
Totally Enclosed Fan-Cooled with Rigid Base-Mount, Cast Iron Frame														
1 ½	1,175	100L	230/460V AC	4.4/2.2	1.15	Yes	87.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC1P13E211G009	**55AY73**
2	1,755	90L	460V AC	2.8	1.25	—	86.5 %	NEMA Prem.	24 mm	50 mm	329 mm	Weg	00158ET3W90L-W22	**10G858**
	1,175	100L	230/460V AC	6.0/3.0	1.15	Yes	88.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC1P53E211G009	**55AY72**
3	1,770	100L	575V AC	3.2	1.15	Yes	90.2 %	NEMA Prem.	28 mm	60 mm	415 mm	Marathon	100LTFC6527	**24ME43**
	1,770	100L	230/460V AC	7.8/3.9	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC2P22E211G009	**55AY76**
	1,770	100L	575V AC	3.1	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC2P22P211G009	**55AY77**
	1,750	100L	460V AC	4.1	1.25	—	89.5 %	NEMA Prem.	28 mm	60 mm	376 mm	Weg	00218ET3W100L-W22	**10G864**
	1,170	112M	230/460V AC	8.8/4.4	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	399 mm	Marathon	TC2P23E211G009	**55AY83**
4	3,500	100L	575V AC	3.9	1.15	Yes	88.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC0031P211G009	**55AY75**
	3,499	100L	230/460V AC	9.8/4.9	1.15	Yes	88.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC0031E211G009	**55AY74**
	1,765	100L	230/460V AC	10.4/5.2	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	398 mm	Marathon	TC0032E211G009	**55AY78**
	1,180	132S	230/460V AC	11.6/5.8	1.15	Yes	89.5 %	NEMA Prem.	38 mm	80 mm	465 mm	Marathon	TC0033E211G009	**55AY92**
5 ½	3,520	112M	230/460V AC	12.4/6.2	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	399 mm	Marathon	TC0041E211G009	**55AY79**
	3,520	112M	575V AC	5.0	1.15	Yes	89.5 %	NEMA Prem.	28 mm	60 mm	399 mm	Marathon	TC0041P211G009	**55AY80**
	1,765	112M	230/460V AC	13.8/6.9	1.15	Yes	91.7 %	NEMA Prem.	28 mm	60 mm	399 mm	Marathon	TC0042E211G009	**55AY81**
	1,765	112M	575V AC	5.5	1.15	Yes	91.7 %	NEMA Prem.	28 mm	60 mm	399 mm	Marathon	TC0042P211G009	**55AY82**
	1,755	112M	230/460V AC	7.3	1.25	—	88.5 %	NEMA Prem.	28 mm	60 mm	394 mm	Weg	00418ET3Y112M-W22	**10G872**
	1,180	132M	230/460V AC	16.2/8.1	1.15	Yes	91 %	NEMA Prem.	38 mm	80 mm	503 mm	Marathon	TC0043E211G009	**55AY86**
7 ½	1,180	132M	230/460V AC	20.8/10.4	1.15	Yes	91 %	NEMA Prem.	38 mm	80 mm	503 mm	Marathon	TC5P53E211G009	**55AY87**
	3,535	132S	230/460V AC	17.6/8.8	1.15	Yes	89.5 %	NEMA Prem.	38 mm	80 mm	465 mm	Marathon	TC5P51E211G009	**55AY88**
	1,775	132S	460V AC	9.1	1.25	—	91.7 %	NEMA Prem.	38 mm	80 mm	452 mm	Weg	00518ET3Y132S-W22	**10G876**
	1,775	132S	230/460V AC	19.6/9.8	1.15	Yes	91.7 %	NEMA Prem.	38 mm	80 mm	465 mm	Marathon	TC5P52E211G009	**55AY91**
	1,180	160M	460V AC	9.6	1.25	—	91 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	00512ET3Y160M-W22	**10G877**
	881	160M	460V AC	11.3	1.25	—	87.5 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	11616109	**482V85**
10	1,775	132M	230/460V AC	25.4/12.7	1.15	Yes	91.7 %	NEMA Prem.	38 mm	80 mm	503 mm	Marathon	TC7P52E211G009	**55AY84**
	1,775	132M	575V AC	10.2	1.15	Yes	91.7 %	NEMA Prem.	38 mm	80 mm	503 mm	Marathon	TC7P52P211G009	**55AY85**
	1,770	132M	460V AC	12.4	1.25	—	91.7 %	NEMA Prem.	38 mm	80 mm	489 mm	Weg	00718ET3Y132M-W22	**10G882**
	3,540	132S	230/460V AC	23.8/11.9	1.15	Yes	90.2 %	NEMA Prem.	38 mm	80 mm	465 mm	Marathon	TC7P51E211G009	**55AY89**
	3,540	132S	575V AC	9.5	1.15	Yes	90.2 %	NEMA Prem.	38 mm	80 mm	465 mm	Marathon	TC7P51P211G009	**55AY90**
	880	160L	460V AC	15.0	1.25	—	89.5 %	NEMA Prem.	42 mm	110 mm	642 mm	Weg	11661300	**482V89**
	1,180	160M	460V AC	13.8	1.25	—	91 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	00712ET3Y160M-W22	**10G881**
	1,180	160M	230/460V AC	26.4/13.2	1.15	Yes	91 %	NEMA Prem.	42 mm	110 mm	622 mm	Marathon	TC7P53E211G009	**55AY99**
15	1,180	160L	460V AC	19.6	1.25	—	91.7 %	NEMA Prem.	42 mm	110 mm	642 mm	Weg	01112ET3Y160L-W22	**10G884**
	1,180	160L	230/460V AC	38.0/19.1	1.15	Yes	91.7 %	NEMA Prem.	42 mm	110 mm	666 mm	Marathon	TC0113E211G009	**55AY95**
	3,550	160M	460V AC	17.9	1.25	—	91.7 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	01136ET3Y160M-W22	**10G886**
	3,550	160M	230/460V AC	34.0/16.9	1.15	Yes	91 %	NEMA Prem.	42 mm	110 mm	622 mm	Marathon	TC0111E211G009	**55AY96**
	1,775	160M	460V AC	18.2	1.25	—	92.4 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	01118ET3Y160M-W22	**10G885**
	1,775	160M	230/460V AC	37.5/18.7	1.15	Yes	92.4 %	NEMA Prem.	42 mm	110 mm	622 mm	Marathon	TC0112E211G009	**55AY98**
20	1,775	160L	460V AC	25.0	1.25	—	93 %	NEMA Prem.	42 mm	110 mm	642 mm	Weg	01518ET3Y160L-W22	**10G888**
	1,775	160L	230/460V AC	50.0/25.1	1.15	Yes	93 %	NEMA Prem.	42 mm	110 mm	666 mm	Marathon	TC0152E211G009	**55AY94**
	3,550	160M	460V AC	24.4	1.25	—	91.7 %	NEMA Prem.	42 mm	110 mm	598 mm	Weg	01536ET3Y160M-W22	**10G889**
	3,540	160M	230/460V AC	45.5/22.8	1.15	Yes	91 %	NEMA Prem.	42 mm	110 mm	622 mm	Marathon	TC0151E211G009	**55AY97**
	1,180	180L	460V AC	24.7	1.25	—	91.7 %	NEMA Prem.	42 mm	110 mm	110 mm	Weg	01512ET3Y180L-W22	**10G887**
	1,180	180L	230/460V AC	53.5/26.7	1.15	Yes	91.7 %	NEMA Prem.	48 mm	110 mm	750 mm	Marathon	TC0153E211G009	**55AZ02**
25	3,550	160L	460V AC	29.9	1.25	—	92.4 %	NEMA Prem.	42 mm	110 mm	642 mm	Weg	01836ET3Y160L-W22	**10G892**
	3,550	160L	230/460V AC	56.0/28.1	1.15	Yes	91.7 %	NEMA Prem.	42 mm	110 mm	666 mm	Marathon	TC18P1E211G009	**55AY93**
	1,780	180M	230/460V AC	62.0/31.0	1.15	Yes	93.6 %	NEMA Prem.	48 mm	110 mm	712 mm	Marathon	TC18P2E211G009	**55AZ04**
	1,775	180M	460V AC	30.6	1.25	—	93.6 %	NEMA Prem.	42 mm	110 mm	664 mm	Weg	01818ET3Y180M-W22	**10G891**
	1,185	200L	230/460V AC	64.0/32.0	1.15	Yes	93 %	NEMA Prem.	55 mm	110 mm	769 mm	Marathon	TC18P3E211G009	**55AZ08**
	1,184	200L	460V AC	31.6	1.25	—	93 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	01812ET3Y200L-W22	**10G890**
30	1,780	180L	230/460V AC	72.0/36.0	1.15	Yes	93.6 %	NEMA Prem.	48 mm	110 mm	750 mm	Marathon	TC0222E211G009	**55AZ01**
	1,775	180L	460V AC	36.0	1.25	—	93.6 %	NEMA Prem.	42 mm	110 mm	702 mm	Weg	02218ET3Y180L-W22	**10G896**
	3,555	180M	460V AC	34.7	1.25	—	92.4 %	NEMA Prem.	42 mm	110 mm	664 mm	Weg	02236ET3Y180M-W22	**10G897**
	3,550	180M	230/460V AC	68.0/34.0	1.15	Yes	91.7 %	NEMA Prem.	48 mm	110 mm	712 mm	Marathon	TC0221E211G009	**55AZ03**
	1,185	200L	230/460V AC	76.0/38.0	1.15	Yes	93 %	NEMA Prem.	55 mm	110 mm	769 mm	Marathon	TC0223E211G009	**55AZ09**
	1,180	200L	460V AC	37.1	1.25	—	93 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	02212ET3Y200L-W22	**10G895**
40	3,570	200L	460V AC	47.1	1.25	—	93 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	03036ET3Y200L-W22	**10G901**
	3,565	200L	230/460V AC	92.0/46.0	1.15	Yes	92.4 %	NEMA Prem.	55 mm	110 mm	769 mm	Marathon	TC0301E211G009	**55AZ05**
	1,780	200L	460V AC	49.4	1.25	—	94.1 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	03018ET3Y200L-W22	**10G899**
	1,780	200L	230/460V AC	94.0/47.0	1.15	Yes	94.1 %	NEMA Prem.	55 mm	110 mm	769 mm	Marathon	TC0302E211G009	**55AZ07**
	1,190	225M	230/460V AC	100.0/50.0	1.15	Yes	94.1 %	NEMA Prem.	60 mm	140 mm	862 mm	Marathon	TC0303E211G009	**55AZ12**
50	3,570	200L	460V AC	59.8	1.25	—	93.6 %	NEMA Prem.	55 mm	110 mm	767 mm	Weg	03736ET3Y200L-W22	**10G903**
	3,565	200L	230/460V AC	112.0/56.0	1.15	Yes	93 %	NEMA Prem.	55 mm	110 mm	769 mm	Marathon	TC0371E211G009	**55AZ06**
	1,785	225S	230/460V AC	118.0/59.0	1.15	Yes	94.5 %	NEMA Prem.	60 mm	140 mm	837 mm	Marathon	TC0372E211G009	**55AZ13**
	1,785	225S/M	460V AC	58.5	1.25	—	94.5 %	NEMA Prem.	60 mm	140 mm	886 mm	Weg	03718ET3Y225S/M-W22	**10G902**
	1,190	250M	230/460V AC	124.0/62.0	1.15	Yes	94.1 %	NEMA Prem.	65 mm	140 mm	941 mm	Marathon	TC0373E211G009	**55AZ16**
60	3,575	225M	230/460V AC	138.0/69.0	1.15	Yes	93.6 %	NEMA Prem.	55 mm	110 mm	832 mm	Marathon	TC0451E211G009	**55AZ10**
	1,785	225M	230/460V AC	142.0/71.0	1.15	Yes	95 %	NEMA Prem.	60 mm	140 mm	862 mm	Marathon	TC0452E211G009	**55AZ11**
	3,565	225S/M	460V AC	69.9	1.25	—	94.1 %	NEMA Prem.	55 mm	110 mm	886 mm	Weg	04536ET3Y225S/M-W22	**10G906**
	1,780	225S/M	460V AC	69.9	1.25	—	95 %	NEMA Prem.	60 mm	140 mm	886 mm	Weg	04518ET3Y225S/M-W22	**10G905**
	1,190	280S	230/460V AC	146.0/73.0	1.15	Yes	94.5 %	NEMA Prem.	75 mm	140 mm	1,060 mm	Marathon	TC0453E211G009	**55AZ19**
75	3,575	250M	230/460V AC	166.0/83.0	1.15	Yes	93.6 %	NEMA Prem.	60 mm	140 mm	941 mm	Marathon	TC0551E211G009	**55AZ14**
	1,790	250M	230/460V AC	174.0/87.0	1.15	Yes	95.4 %	NEMA Prem.	65 mm	140 mm	941 mm	Marathon	TC0552E211G009	**55AZ15**
	3,570	250S/M	460V AC	80.3	1.25	—	94.5 %	NEMA Prem.	60 mm	140 mm	965 mm	Weg	05536ET3Y250S/M-W22	**10G908**
	1,785	250S/M	460V AC	85.1	1.25	—	95.4 %	NEMA Prem.	65 mm	140 mm	965 mm	Weg	05518ET3Y250S/M-W22	**10G907**
	1,190	280M	230/460V AC	174.0/87.0	1.15	Yes	94.5 %	NEMA Prem.	75 mm	140 mm	1,111 mm	Marathon	TC0553E211G009	**55AZ17**
	1,190	280S/M	460V AC	90.2	1.25	—	94.5 %	NEMA Prem.	75 mm	140 mm	1,071 mm	Weg	05512ET3Y280S/M-W22	**10G910**
100	3,580	280S	230/460V AC	222.0/111.0	1.15	Yes	94.1 %	NEMA Prem.	65 mm	140 mm	1,060 mm	Marathon	TC0751E211G009	**55AZ18**
	3,580	280S/M	460V AC	111.0	1.25	—	94.5 %	NEMA Prem.	65 mm	140 mm	1,071 mm	Weg	07536ET3Y280S/M-W22	**10G913**
	1,785	280S/M	460V AC	116.0	1.25	—	95.4 %	NEMA Prem.	75 mm	140 mm	1,071 mm	Weg	07518ET3Y280S/M-W22	**10G912**
	1,190	315S	230/460V AC	246.0/123.0	1.15	Yes	95 %	NEMA Prem.	80 mm	170 mm	1,206 mm	Marathon	TC0753E211G009	**55AZ20**
	1,190	315S/M	460V AC	122.0	1.25	—	95 %	NEMA Prem.	80 mm	170 mm	1,274 mm	Weg	07512ET3Y315S/M-W22	**10G911**
125	3,580	280S/M	460V AC	132.0	1.25	—	95 %	NEMA Prem.	65 mm	140 mm	1,071 mm	Weg	09036ET3Y280S/M-W22	**10G916**
	1,785	280S/M	460V AC	139.0	1.25	—	95.4 %	NEMA Prem.	75 mm	140 mm	1,071 mm	Weg	09018ET3Y280S/M-W22	**10G915**
	1,190	315S/M	460V AC	146.0	1.25	—	95.4 %	NEMA Prem.	80 mm	170 mm	1,274 mm	Weg	09012ET3Y315S/M-W22	**10G914**
150	1,785	280S/M	460V AC	170.0	1.25	—	95.8 %	NEMA Prem.	75 mm	140 mm	1,071 mm	Weg	11018ET3Y280S/M-W22	**10G918**
	3,585	315S/M	460V AC	163.0	1.25	—	95 %	NEMA Prem.	65 mm	140 mm	1,244 mm	Weg	11036ET3Y315S/M-W22	**10G919**
	1,190	315S/M	460V AC	178.0	1.25	—	95.8 %	NEMA Prem.	80 mm	170 mm	1,274 mm	Weg	11012ET3Y315S/M-W22	**10G917**
175	3,580	315S/M	460V AC	193.0	1.25	—	95.4 %	NEMA Prem.	65 mm	140 mm	1,244 mm	Weg	13236ET3Y315S/M-W22	**10G921**
	1,790	315S/M	460V AC	203.0	1.25	—	96.2 %	NEMA Prem.	80 mm	170 mm	1,274 mm	Weg	13218ET3Y315S/M-W22	**10G920**
200	3,585	315S/M	460V AC	219.0	1.25	—	95.4 %	NEMA Prem.	65 mm	140 mm	1,244 mm	Weg	15036ET3Y315S/M-W22	**10G923**
	1,790	315S/M	460V AC	228.0	1.25	—	96.2 %	NEMA Prem.	80 mm	170 mm	1,274 mm	Weg	15018ET3Y315S/M-W22	**10G922**

IMPORTANT MOTOR INFORMATION Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.





Close-Coupled Pump Shaft Dimensions

Frame Designations	Pump Shaft Dimensions										
	U	EL	EM	EN	EQ	ET	AH	AJ	AK	BD	BF
143JM/145JM	7⁄8"	15⁄32"	1"	3⁄8-16 x 3⁄4"	5⁄8"	27⁄8"	41⁄4"	57⁄8"	41⁄2"	65⁄8"	3⁄8-16"
143JP/145JP	7⁄8"	15⁄32"	1"	3⁄8-16 x 3⁄4"	19⁄16"	515⁄16"	75⁄16"	57⁄8"	41⁄2"	65⁄8"	3⁄8-16"
182JM/184JM	7⁄8"	11⁄4"	1"	3⁄8-16 x 3⁄4"	5⁄8"	27⁄8"	41⁄4"	57⁄8"	41⁄2"	65⁄8"	3⁄8-16"
182JP/184JP	7⁄8"	11⁄4"	1"	3⁄8-16 x 3⁄4"	19⁄16"	515⁄16"	75⁄16"	57⁄8"	41⁄2"	65⁄8"	3⁄8-16"
213JM/215JM	7⁄8"	11⁄4"	1"	3⁄8-16 x 3⁄4"	5⁄8"	27⁄8"	41⁄4"	71⁄4"	81⁄2"	9"	1⁄2-13"
213JP/215JP	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	71⁄4"	81⁄2"	9"	1⁄2-13"
254JM/256JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	71⁄4"	81⁄2"	91⁄4"	1⁄2-13"
254JP/256JP	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	71⁄4"	81⁄2"	9"	1⁄2-13"
284JM/286JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	11"	121⁄2"	10"	5⁄8-11"
284JP/286JP	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	10"	5⁄8-11"
324JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	11"	121⁄2"	14"	5⁄8-11"
324JP	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	14"	5⁄8-11"
326JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	11"	121⁄2"	14"	5⁄8-11"
326JP	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	14"	5⁄8-11"
364JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	11"	121⁄2"	14"	5⁄8-11"
364JP	15⁄8"	21⁄8"	13⁄4"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	14"	5⁄8-11"
365JM	11⁄4"	13⁄4"	13⁄8"	1⁄2-13 x 1"	5⁄8"	3"	51⁄4"	11"	121⁄2"	14"	5⁄8-11"
365JP	15⁄8"	21⁄8"	13⁄4"	1⁄2-13 x 1"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	14"	5⁄8-11"
404JP/405JP	15⁄8"	21⁄8"	13⁄4"	1⁄2-13 x 2"	23⁄8"	57⁄8"	81⁄8"	11"	121⁄2"	159⁄16"	5⁄8-11"

Open Dripproof 26ZY37

Totally Enclosed Fan-Cooled 26ZY45

marathon™ Motors

1-Phase Close-Coupled Pump Motors

- Rotation: CW/CCW
- Thermal protection: none
- Mounting: face/base
- Max. ambient temp.: 40°C

Motors are continuous-duty and for use in commercial and industrial pumping applications. TEFC motors are suitable for use in dirty, dusty, and nonhazardous applications.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Nom. Efficiency	Motor Efficiency Group	Mfr. Model	Item No.
Open Dripproof, JM Threaded, Capacitor-Start										
3	3,500	182JM	115/230V AC	32.0/16.1	1.15	F	75.5 %	Standard	182TCDW7318	**26ZY36**
	1,750	184JM	115/230V AC	33.5/16.8	1.15	F	75.5 %	Standard	184TCDW7047	**26ZY38**
7½	3,470	213JM	230V AC	37.0	1.15	B	78.5 %	Standard	213TCDW7002	**26ZY39**
10	3,465	215JM	230V AC	47.0	1.15	B	81.5 %	Standard	215TCDW7002	**26ZY43**
Open Dripproof, JM Threaded, Capacitor-Start/Run										
5	3,500	184JM	230V AC	22.0	1.15	F	80 %	Standard	184TBDW17007	**26ZY37**
7½	1,735	215JM	230V AC	34.5	1.15	F	84 %	Standard	215TBDW7029	**26ZY42**
Totally Enclosed Fan-Cooled, JM Threaded, Capacitor-Start/Run										
7½	3,465	213JM	230V AC	32.0	1	F	81.5 %	Standard	213TBFW7010	**26ZY45**

Open Dripproof, JM Threaded 26ZX83

Totally Enclosed Fan-Cooled, JM Threaded 52NU15

WEG marathon™ Motors NEMA Premium

3-Phase Close-Coupled Pump Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F, with B temperature rise for longer life
- Inverter rated
- Efficiency group: NEMA Premium
- Mounting: face/base
- Max. ambient temp.: 40°C

For use in water pumping, process, transfer, and circulating pumps. TEFC motors are designed for severe-duty applications.

Note: Find higher HP models on Grainger.com.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Nom. Efficiency	Brand	Mfr. Model	Item No.
Open Dripproof, JM Threaded, Steel Frame									
1	1,760	143/5JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	85.5 %	Weg	00118OT3E143JM-S	**33HN16**
	1,760	143JM	230/460V AC	3.0/1.50	1.15	85.5 %	Marathon	143TTDR6030	**26ZX83**
1½	3,510	143/5JM	208-230/460V AC	4.0-3.7/1.80	1.15	84 %	Weg	00156OT3E143JM-S	**33HN20**
	1,760	143/5JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	86.5 %	Weg	00158OT3E145JM-S	**33HN25**
	1,755	145JM	230/460V AC	4.4/2.2	1.15	86.5 %	Marathon	145TTDR6034	**26ZX91**
2	1,750	145JM	230/460V AC	6.0/3.0	1.15	86.5 %	Marathon	145TTDR6036	**26ZX92**
3	3,490	145JM	230/460V AC	7.2/3.6	1.15	86.5 %	Marathon	145TTDR6013	**26ZX88**
	3,480	143/5JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	85.5 %	Weg	00336OT3E145JM-S	**33HN44**
	1,770	182JM	230/460V AC	8.0/4.0	1.15	89.5 %	Marathon	182TTDBD6032	**26ZX95**
	1,760	182/4JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	89.5 %	Weg	00318OT3E182JM-S	**33HN39**
5	3,510	182/4JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	86.5 %	Weg	00536OT3E182JM-S	**33HN54**
	3,510	182JM	230/460V AC	13.2/6.6	1.15	86.5 %	Marathon	182TTDBD6007	**26ZX93**
	1,765	184JM	230/460V AC	13.2/6.6	1.15	89.5 %	Marathon	184TTDBD6032	**26ZX99**
	1,760	182/4JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	89.5 %	Weg	00518OT3E184JM-S	**33HN49**
7½	3,510	184JM	230/460V AC	18.4/9.2	1.15	88.5 %	Marathon	184TTDBD6007	**26ZX97**
	3,500	182/4JM	230/460V	17.3/8.67	1.15	88.5 %	Weg	00736OT3E184JM-S	**33HN65**
	1,765	213JM	230/460V AC	19.8/9.9	1.15	91 %	Marathon	213TTDBD6032	**26ZY04**
10	3,535	213/5JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	89.5 %	Weg	01036OT3E213JM-S	**33HN77**
	1,770	215JM	230/460V AC	25.4/12.7	1.15	91.7 %	Marathon	215TTDBD6032	**26ZY08**
15	3,525	213/5JM	208-230/460V AC	38.0-34.4/17.2	1.15	90.2 %	Weg	01536OT3E215JM-S	**33HN83**
	3,515	215JM	230/460V AC	36.0/18.0	1.15	90.9 %	Marathon	215TTDBD6007	**482R03**
	1,775	254JM	230/460V AC	37.5/18.8	1.15	93 %	Marathon	254TTDBD6032	**26ZY10**
20	3,550	254JM	230/460V AC	48.0/24.0	1.15	91 %	Marathon	254TTDBD6007	**26ZY12**
	3,525	254/6JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	91 %	Weg	02036OT3E254JM-S	**33HT95**
25	3,530	254/6JM	208-230/460V AC	3.3-3.0/1.5.0	1.15	91.7 %	Weg	02536OT3E256JM-S	**33HU02**

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WEG marathon Motors NEMA Premium

3-Phase Close-Coupled Pump Motors

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Nom. Efficiency	Brand	Mfr. Model	Item No.
Open Dripproof, JM Threaded, Cast-Iron Frame									
15	1,770	254JM	208-230/460V AC	41.1-37.2/18.6	1.25	93 %	Weg	01518OT3E254JM-W40	**4EUU7**
20	1,765	256JM	208-230/460V AC	55.3-50.0/25.0	1.25	93 %	Weg	02018OT3E256JM-W40	**4EUU9**
25	1,775	284JM	230/460V AC	62.5/31.0	1.15	93.6 %	Marathon	284TTDBD6032	**26ZY20**
	1,770	284JM	208-230/460V AC	66.1-59.8/29.9	1.25	93.6 %	Weg	02518OT3E284JM-W40	**4EUV2**
30	3,560	284JM	230/460V AC	71.5/35.5	1.15	91.7 %	Marathon	284TTDBD6007	**26ZY18**
	3,545	284JM	208-230/460V AC	76.7-70.4/35.2	1.25	91.7 %	Weg	03036OT3E284JM-W40	**4EUV3**
	1,770	286JM	208-230/460V AC	78.3-70.8/35.4	1.25	94.1 %	Weg	03018OT3E286JM-W40	**4EUV4**
Open Dripproof, JP Threaded, Steel Frame									
1	1,760	143/5JP	208-230/460V AC	3.3-3.0/1.5.0	1.15	85.5 %	Weg	00118OT3E143JP-S	**33HN17**
1½	3,510	143/5JP	208-230/460V AC	4.0-3.7/1.80	1.15	84 %	Weg	00156OT3E143JP-S	**33HN21**
	1,760	143/5JP	208-230/460V AC	4.5-4.1/2.0	1.15	86.5 %	Weg	00158OT3E145JP-S	**33HN26**
2	3,510	143/5JP	208-230/460V AC	5.3-4.8/2.4	1.15	85.5 %	Weg	00236OT3E145JP-S	**33HN35**
	1,740	143/5JP	208-230/460V AC	5.9-5.3/2.6	1.15	86.5 %	Weg	00218OT3E145JP-S	**33HN31**
3	3,480	143/5JP	208-230/460V AC	7.9-7.1/3.5	1.15	85.5 %	Weg	00336OT3E145JP-S	**33HN45**
	1,770	182JP	230/460V AC	8.0/4.0	1.15	89.5 %	Marathon	182TTDBD6037	**32UP93**
	1,765	182/4JP	208-230/460V AC	8.5-7.7/3.8	1.15	89.5 %	Weg	00318OT3E182JP-S	**33HN40**
5	3,510	182/4JP	208-230/460V AC	13.5-12.2/6.1	1.15	86.5 %	Weg	00536OT3E182JP-S	**33HN55**
	3,510	182JP	230/460V AC	13.2/6.6	1.15	86.5 %	Marathon	182TTDBD6012	**32UP26**
	1,760	182/4JP	208-230/460V AC	14.0-12.7/6.3	1.15	89.5 %	Weg	00518OT3E184JP-S	**33HN50**
7½	3,500	182/4JP	208-230/460V AC	19.2-17.3/8.6	1.15	88.5 %	Weg	00736OT3E184JP-S	**33HN66**
	1,770	213/5JP	208-230/460V AC	20.5-18.5/9.2	1.15	91 %	Weg	00718OT3E213JP-S	**33HN61**
	1,770	213JP	230/460V AC	19.8/9.9	1.15	91 %	Marathon	213TTDBD6037	**32UR02**
10	3,535	213/5JP	208-230/460V AC	26.5-24.0/12.0	1.15	89.5 %	Weg	01036OT3E213JP-S	**33HN78**
	3,520	213JP	230/460V AC	24.2/12.1	1.15	89.8 %	Marathon	213TTDBD6012	**32UP99**
	1,770	213/5JP	208-230/460V AC	27.4-24.8/12.4	1.15	91.7 %	Weg	01018OT3E215JP-S	**33HN72**
15	3,535	213/5JP	208-230/460V AC	38.0-34.4/17.2	1.15	90.2 %	Weg	01536OT3E215JP-S	**33HN84**
20	1,770	256JP	230/460V AC	48.5/24.3	1.15	93 %	Marathon	256TTDBD6037	**32UR14**
Open Dripproof, JP Threaded, Cast-Iron Frame									
15	1,770	254JP	208-230/460V AC	33.5-37.2/18.6	1.25	93 %	Weg	01518OT3E254JP-W40	**4EUN5**
20	3,535	254JP	208-230/460V AC	44.3-49.2/24.6	1.25	91 %	Weg	02036OT3E254JP-W40	**4EUN6**
	1,765	256JP	208-230/460V AC	45.5-50.6/25.3	1.25	93 %	Weg	02018OT3E256JP-W40	**4EUN7**
25	3,560	256JP	230/460V AC	59.5/29.7	1.15	91.7 %	Marathon	256TTDBD6012	**32UR12**
	3,535	256JP	208-230/460V AC	53.6-59.6/29.8	1.25	91.7 %	Weg	02536OT3E256JP-W40	**4EUN8**
	1,770	284JP	208-230/460V AC	53.8-59.8/29.9	1.25	93.6 %	Weg	02518OT3E284JP-W40	**4EUN9**
30	3,545	284JP	208-230/460V AC	63.4-70.4/35.2	1.25	91.7 %	Weg	03036OT3E284JP-W40	**4EUP1**
	1,770	286JP	208-230/460V AC	63.7-70.8/35.4	1.25	94.1 %	Weg	03018OT3E286JP-W40	**4EUP2**
Totally Enclosed Fan-Cooled, JM Threaded, Steel Frame									
2	1,745	145JM	230/460V AC	5.8/2.9	1.15	86.5 %	Marathon	145TTFR16037	**52NU09**
3	1,760	182JM	230/460V AC	8.0/4.0	1.15	89.5 %	Marathon	182TTFBD6031	**52NU13**
5	3,525	184JM	230/460V AC	12.4/6.2	1.15	88.5 %	Marathon	184TTFBD6006	**52NU15**
	1,765	184JM	230/460V AC	13.2/6.6	1.15	89.5 %	Marathon	184TTFBD6031	**52NU17**
7½	3,520	213JM	230/460V AC	18.4/9.2	1.15	90.2 %	Marathon	213TTFBD6006	**52NU19**
	1,770	213JM	230/460V AC	19.0/9.5	1.15	93.3 %	Marathon	213TTFBD6031	**52NU21**
10	3,520	215JM	230/460V AC	23.6/11.8	1.15	90.2 %	Marathon	215TTFBD6006	**52NU23**
	1,760	215JM	230/460V AC	25.0/12.5	1.15	92.1 %	Marathon	215TTFBD6031	**52NU25**
Totally Enclosed Fan-Cooled, JM Threaded, Cast-Iron Frame									
1	1,760	143JM	208-230/460V AC	3.7-2.8/1.40	1.25	85.5 %	Weg	00118ET3E143JM-W22	**6FKC3**
1½	3,480	143JM	208-230/460V AC	4.2-3.8/1.9	1.25	84 %	Weg	00156ET3E143JM-W22	**6FKC4**
	1,755	145JM	208-230/460V AC	4.3-4.0/2.00	1.25	86.5 %	Weg	00158ET3E145JM-W22	**6FKC5**
2	1,755	145JM	208-230/460V AC	5.7-5.2/2.6	1.25	86.5 %	Weg	00218ET3E145JM-W22	**6FKC7**
3	3,515	182JM	208-230/460V AC	8.1-7.2/3.6	1.25	86.5 %	Weg	00336ET3E182JM-W22	**6FKC8**
	1,760	182JM	208-230/460V AC	8.5-7.7/3.8	1.25	89.5 %	Weg	00318ET3E182JM-W22	**6FKC9**
5	3,485	184JM	208-230/460V AC	13.1-11.8/5.9	1.25	88.5 %	Weg	00536ET3E184JM-W22	**6FKD0**
	1,755	184JM	208-230/460V AC	14.3-12.9/6.4	1.25	89.5 %	Weg	00518ET3E184JM-W22	**6FKD1**
7½	3,520	213JM	208-230/460V AC	19.4-17.5/8.7	1.25	89.5 %	Weg	00736ET3E213JM-W22	**6FKD2**
	1,765	213JM	208-230/460V AC	19.9-18.0/9.0	1.25	91.7 %	Weg	00718ET3E213JM-W22	**6FKD3**
10	3,510	213/5JM	208-230/460V AC	25.7-23.2/11.6	1.25	90.2 %	Weg	01036ET3E215JM-W22	**6FKD4**
	1,765	213/5JM	208-230/460V AC	27.4-24.8/12.4	1.25	91.7 %	Weg	01018ET3E215JM-W22	**6FKD5**
15	3,530	254/6JM	208-230/460V AC	37.6-34.4/17.2	1.25	91 %	Weg	01536ET3E254JM-W22	**6FKD6**
	1,765	254/6JM	208-230/460V AC	39.8-36.0/18.0	1.25	92.4 %	Weg	01518ET3E254JM-W22	**6FKD7**
20	3,520	254/6JM	208-230/460V AC	51.3-46.4/23.2	1.25	91 %	Weg	02036ET3E256JM-W22	**6FKD8**
	1,765	254/6JM	208-230/460V AC	53.3-48.2/24.1	1.25	93 %	Weg	02018ET3E256JM-W22	**6FKD9**
25	3,555	284JM	230/460V AC	60.0/30.0	1.15	91.7 %	Marathon	284TTFCD6006	**25VD75**
	3,535	284/6JM	208-230/460V AC	63.0-57.0/28.5	1.25	91.7 %	Weg	02536ET3E284JM-W22	**6FKE0**
	1,765	284/6JM	208-230/460V AC	65.2-59.0/29.5	1.25	93.6 %	Weg	02518ET3E284JM-W22	**6FKE1**
30	3,535	286JM	208-230/460V AC	74.8-67.6/33.8	1.25	91.7 %	Weg	03036ET3E286JM-W22	**6FKE2**
	1,765	286JM	208-230/460V AC	77.6-70.2/35.1	1.25	93.6 %	Weg	03018ET3E286JM-W22	**6FKE3**
Totally Enclosed Fan-Cooled, JP Threaded, Steel Frame									
3	1,760	182JP	230/460V AC	8.0/4.0	1.15	89.5 %	Marathon	182TTFBD6037	**29FH26**
7½	3,520	213JP	230/460V AC	18.4/9.2	1.15	90.2 %	Marathon	213TTFBD6012	**29FH32**
	1,770	213JP	230/460V AC	19.0/9.5	1.15	93.3 %	Marathon	213TTFBD6037	**29FH34**
10	3,520	215JP	230/460V AC	23.6/11.8	1.15	90.2 %	Marathon	215TTFBD6012	**29FH36**
	1,760	215JP	230/460V AC	25.0/12.5	1.15	92.1 %	Marathon	215TTFBD6037	**29FH38**
15	1,770	254JP	230/460V AC	37.5/18.8	1.15	92.4 %	Marathon	254TTFCD6037	**29FH42**
Totally Enclosed Fan-Cooled, JP Threaded, Cast-Iron Frame									
1	1,760	143JP	208-230/460V AC	3.1-2.8/1.40	1.25	85.5 %	Weg	00118ET3E143JP-W22	**6FJX9**
1½	3,480	143JP	208-230/460V AC	4.2-3.8/1.9	1.25	84 %	Weg	00156ET3E143JP-W22	**6FJY0**
	1,755	145JP	208-230/460V AC	4.3-4.0/2.00	1.25	86.5 %	Weg	00158ET3E145JP-W22	**6FJY1**
2	3,475	143/5JP	208-230/460V AC	5.6-4.0/2.5	1.25	85.5 %	Weg	00236ET3E145JP-W22	**6FJY2**
	1,755	143/5JP	208-230/460V AC	5.7-5.2/2.6	1.25	86.5 %	Weg	00218ET3E145JP-W22	**6FJY3**
3	3,515	182/4JP	208-230/460V AC	8.1-7.2/3.6	1.25	86.5 %	Weg	00336ET3E182JP-W22	**6FJY4**
	1,760	182JP	208-230/460V AC	8.5-7.7/3.8	1.25	89.5 %	Weg	00318ET3E182JP-W22	**6FJY5**
5	3,485	182JP	208-230/460V AC	13.1-11.8/5.9	1.25	88.5 %	Weg	00536ET3E184JP-W22	**6FJY6**
	1,755	184JP	208-230/460V AC	14.3-12.9/6.4	1.25	89.5 %	Weg	00518ET3E184JP-W22	**6FJY7**
7½	3,520	213JP	208-230/460V AC	19.4-17.5/8.7	1.25	89.5 %	Weg	00736ET3E213JP-W22	**6FJY8**
	1,765	213JP	208-230/460V AC	19.9-18.0/9.0	1.25	91.7 %	Weg	00718ET3E213JP-W22	**6FJY9**
10	3,510	213/5JP	208-230/460V AC	25.7-23.2/11.6	1.25	90.2 %	Weg	01036ET3E215JP-W22	**6FJZ0**
	1,765	213/5JP	208-230/460V AC	27.4-24.8/12.4	1.25	91.7 %	Weg	01018ET3E215JP-W22	**6FJZ1**
15	3,530	254/6JP	208-230/460V AC	37.6-34.4/17.2	1.25	91 %	Weg	01536ET3E254JP-W22	**6FJZ2**
	1,765	254/6JP	208-230/460V AC	39.8-36.0/18.0	1.25	92.4 %	Weg	01518ET3E254JP-W22	**6FJZ3**
20	3,520	254/6JP	208-230/460V AC	51.3-46.4/23.2	1.25	91 %	Weg	02036ET3E256JP-W22	**6FJZ4**
	1,770	256JP	230/460V AC	48.5/24.2	1.15	93 %	Marathon	256TTFCD6037	**29FH46**
	1,765	254/6JP	208-230/460V AC	53.3-48.2/24.1	1.25	93 %	Weg	02018ET3E256JP-W22	**6FJZ5**
25	3,535	284/6JP	208-230/460V AC	63.0-57.0/28.5	1.25	91.7 %	Weg	02536ET3E284JP-W22	**6FJZ6**
	1,765	284/6JP	208-230/460V AC	65.2-59.0/29.5	1.25	93.6 %	Weg	02518ET3E284JP-W22	**6FJZ7**
30	3,535	284/6JP	208-230/460V AC	74.8-67.6/33.8	1.25	91.7 %	Weg	03036ET3E286JP-W22	**6FJZ8**
	1,765	284/6JP	208-230/460V AC	77.6-70.2/35.1	1.25	93.6 %	Weg	03018ET3E286JP-W22	**6FJZ9**

IMPORTANT MOTOR INFORMATION Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

1-Phase Jet Pump Motors

- Thermal protection: auto
- 60 Hz, except 2K650 is 60/50 Hz
- Insulation: Class B
- Mounting: horizontal or vertical, shaft down
- Bearings: ball
- Motor: capacitor-start, except where noted

Shaft slinger (all models) and gasketed conduit box (TEFC models only) protect against moisture and contaminants.

56C frame shaft: ⅝" dia. x 1⅞"L, 3⁄16"-wide keyway.

56J frame shaft: stainless steel, 7⁄16-20 UNF-2A, RH threaded 11⁄16" from end, 27⁄16" length. Use in jet pump water systems, centrifugal and hydraulic pumps, and other applications requiring NEMA 56C- or 56J-face mounting.

Note: Must equal or exceed service factor and HP for proper replacement.

Marathon—2-compartment design with locked ball bearings on shaft end. Voltage-change plug and enlarged conduit box for easy terminal lead connection. 56C frame has 416 stainless steel shaft.

Dayton—Single-compartment design. 56C frame has carbon steel keyed shaft. ½-HP and higher motors include drip cover kit for vertical mounting.

Open Dripproof, Face-Mount Keyed Shaft 5K955

Totally Enclosed Fan Cooled, Face-Mount, Threaded Shaft 5TB76

HP	Nameplate RPM	Motor Shaft Rotation	Voltage	Full Load Amps	Motor Service Factor	Max. Ambient Temp.	Brand	Mfr. Model	Item No.
Open Dripproof, 56C Frame, Face-Mount, Keyed Shaft									
⅓	3,450	CCWSE	115/230V AC	6.2/3.1	1.75	40 °C	Dayton	5K955	**5K955**
	3,450	CCWSE	115V AC	6.2	1.75	50 °C	Marathon	5KH39EN2552X	**2K409** *
½	3,450	CCWSE	115/230V AC	7.7/3.8	1.6	40 °C	Dayton	5K657	**5K657**
¾	3,450	CW/CCW	115/230V AC	11.2/5.6	1.5	40 °C	Marathon	5KC39NN50X	**4K110**
	3,450	CCWSE	115/230V AC	5.7/11.4	1.5	40 °C	Century	K1070	**60WD16**
	3,450	CCWSE	115/230V AC	11.6/5.8	1.5	40 °C	Dayton	5K658	**5K658**
1	3,450	CW/CCW	115/208-230V AC	13.2/6.6-6.5	1.4	40 °C	Marathon	5KC39RN44X	**4K111**
	3,450	CW/CCW	115/208-230V AC	12.8/6.7-6.4	1.4	40 °C	Dayton	5K659	**5K659**
1½	3,450	CW/CCW	115/208-230V AC	18.4/9.8-9.2	1.3	40 °C	Marathon	5KC49NN2140X	**4K112**
	3,450	CW/CCW	115/208-230V AC	18.2/9.2-9.1	1.3	40 °C	Dayton	5K469	**5K469**
2	3,450	CW/CCW	115/208-230V AC	21.2/11.5-10.6	1.2	40 °C	Marathon	5KC49TN2141X	**4K113**
	3,450	CCWSE	115/208-230V AC	19.6/10.7-9.8	1.2	40 °C	Dayton	5K470	**5K470**
3	3,450	CW/CCW	115/230V AC	29.4/14.7	1.15	40 °C	Marathon	5KCR48TN2142T	**4K114** †
Open Dripproof, 56J Frame, Face/Base-Mount, Threaded Shaft									
⅓	3,450	CCWSE	115V AC	6.2	1.75	50 °C	Marathon	5KH39EN2887X	**5U259** *
½	3,450	CCWSE	115/230V AC	8.2, 4.1	1.6	50 °C	Marathon	5KC39HN2888X	**5U170**
	3,450	CCWSE	115/230V AC	9.0/4.5	1.6	40 °C	Dayton	6K580	**6K580**
¾	3,450	CCWSE	115/208-230V AC	11.0/5.4-5.5	1.5	40 °C	Dayton	6K581	**6K581**
1	3,450	CCWSE	115/208-230V AC	13.2/6.8-6.6	1.4	40 °C	Dayton	6K582	**6K582**
	3,450	CCWSE	115/230V AC	14.2/7.1	1.4	50 °C	Marathon	5KC39SN2890X	**5U172**
1½	3,450	CCWSE	115/208-230V AC	18.2/9.2-9.1	1.3	40 °C	Dayton	6K516	**6K516**
	3,450	CCWSE	115/230V AC	15.8, 7.9	1.3	50 °C	Marathon	5KCR39SN2891X	**5U173** †
Open Dripproof, 56J Frame, Face-Mount, Threaded Shaft									
⅓	3,450	CCWSE	115/208-230V AC	6.4, 3.0-3.2	1.75	40 °C	Marathon	5KC37FN65X	**2K366**
	3,450	CCWSE	115/230V AC	3.4/6.8	1.8	40 °C	Century	T1032	**60WD32**
	3,450	CCWSE	115/230V AC	6.2/3.1	1.75	40 °C	Dayton	5K956	**5K956**
	3,450	CCWSE	115V AC	6.2	1.75	50 °C	Marathon	5KH39EN2506X	**2K410** *
	1,725	CCWSE	115/208-230V AC	6.0/3.2-3.0	1.35	40 °C	Marathon	5KC36LN84X	**2K650**
½	3,450	CCWSE	115/230V AC	7.6, 3.8	1.6	40 °C	Marathon	5KC36JN269X	**2K367**
	3,450	CCWSE	115/230V AC	9.0/4.5	1.65	40 °C	Dayton	5K660	**5K660**
¾	3,450	CCWSE	115/208-230V AC	11.2/5.6-5.3	1.5	40 °C	Marathon	5KC39QN3219X	**2K368**
	3,450	CCWSE	115/208-230V AC	10.4/5.4-5.2	1.5	40 °C	Dayton	5K661	**5K661**
	3,450	CCWSE	115/230V AC	11.6, 5.8	1.5	40 °C	Marathon	5KC33MN2502X	**2K399**
1	3,450	CCWSE	115/208-230V AC	13.2/6.6-6.5	1.4	40 °C	Marathon	5KC39RN45X	**2K369**
	3,450	CCWSE	115/230V AC	6.2/12.4	1.4	40 °C	Century	T1102	**60WD24**
	3,450	CCWSE	115/230V AC	13.4/6.7	1.4	40 °C	Dayton	5K662	**5K662**
1½	3,450	CCWSE	115/208-230V AC	18.2/9.2-9.1	1.3	40 °C	Dayton	5K475	**5K475**
	3,450	CCWSE	115/230V AC	18.4/9.2	1.3	40 °C	Marathon	5KC49NN2167X	**2K370**
2	3,450	CCWSE	115/208-230V AC	19.6/10.7-9.8	1.2	40 °C	Dayton	5K476	**5K476** †
3	3,450	CCWSE	115/230V AC	29.4/14.7	1.15	40 °C	Marathon	5KCR48TN2174T	**2K372** †
Totally Enclosed Fan-Cooled, 56J Frame, Face-Mount, Threaded Shaft									
⅓	3,450	CW/CCW	115/230V AC	5.6/2.8	1	40 °C	Marathon	5KC33FN4180X	**5TB76**

** Split-phase. † Capacitor-start, capacitor-run.*

3-Phase Jet Pump Motors

- 56J frame
- Thermal protection: none
- Bearings: ball
- Max. ambient temp.: 40°C

Shaft: stainless steel, 7⁄16-20 UNF-2A RH threaded 11⁄16" from end, 27⁄16"L. Open dripproof models have a shaft slinger.

Dayton motors will operate at 50 Hz on 190/380V at 5/6 of 60 Hz HP and rpm. For use in industrial, commercial, centrifugal, and hydraulic pumps.

Note: Must equal or exceed service factor and HP for proper replacement.

Open Dripproof, Face/Base-Mount 3N088

Totally Enclosed Fan-Cooled, Face-Mount 60WD21

HP	Nameplate RPM	Motor Shaft Rotation	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Brand	Mfr. Model	Item No.
Open Dripproof, Face-Mount									
½	3,450/2,850	CW/CCW	200-230/460V AC	2.0-1.8/0.9	1.8	B	Century	H137	**60WD47**
	3,450/2,850	CW/CCW	208-230/460V AC	2.6-2.6/1.3	1.6	B	Century	H155	**60WD38**
¾	3,450/2,850	CW/CCW	208-230/460V AC	3.4/1.7	1.5	B	Century	H446	**60WD25**
	1,725	CW/CCW	208-230/460V AC	3.3-3.0/1.50	1.25	B	Marathon	5K46KN4141	**4N086**
1	3,450/2,850	CW/CCW	208-230/460V AC	4.3-4.0/2.0	1.4	B	Century	H506	**60WD20**
1½	3,450/2,850	CW/CCW	208-230/460V AC	5.8-5.6/2.8	1.3	B	Century	H607	**60WD22**
2	3,450/2,850	CW/CCW	200-230/460V AC	6.8-6.6/3.3	1.2	B	Century	H733	**60WD19**
3	3,450	CW/CCW	200-230/460V AC	9.8-9.6/4.8	1.2	B	Century	H734	**60WD17**
Open Dripproof, Face/Base-Mount									
¾	3,530	CW/CCW	208-230/460V AC	2.3-2.2/1.10	1.15	B	Dayton	3N088	**3N088**
1½	3,450	CW/CCW	230/460V AC	3.8/1.90	1.3	B	Dayton	52ZW08	**52ZW08**
Totally Enclosed Fan-Cooled, Face-Mount									
½	1,725	CW/CCW	208-230/460V AC	2.3-2.2/1.10	1	B	Marathon	5K42HN4133	**4N084**
1½	3,490	CW/CCW	230/460V AC	4.0/2.0	1.2	F	Leeson	119453.00	**60WD35**
2	3,450	CW/CCW	230/460V AC	5.2/2.6	1.2	B	Century	H706ES	**60WD23**
3	3,450	CW/CCW	230/460V AC	8.0/4.0	1	B	Century	H707ES	**60WD21**
Totally Enclosed Fan-Cooled, Face/Base-Mount									
1	3,450	CW/CCW	230/460V AC	3.0/1.50	1.15	B	Marathon	056T34F99029	**53UF61**
1½	3,450	CW/CCW	208-230/460V AC	4.2-4.0/2.0	1.15	B	Marathon	056T34F99018	**53DE36**

56Y Frame, Permanent Split Capacitor

56Y Frame, Capacitor Start/Run

56Y Frame, 3-Phase

HP	Nameplate RPM	Motor Shaft Rotation	Motor Thermal Protection	Phase	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Motor Efficiency Group	Max. Ambient Temp.	Mfr. Model	Item No.
56Y Frame, Permanent Split Capacitor												
½	3,450	CCWSE	Auto	Single	115/208-230V AC	8.8/4.5-4.4	1.9	B	Efficient	50 °C	B845	**16U451**
	3,450	CCWSE	Auto	Single	115/230V AC	10.8/5.4	1.95	F	Standard	50 °C	B2846	**6UEV2** *
¾	3,450	CCWSE	Auto	Single	115/208-230V AC	11.2/6.0-5.6	1.67	F	Standard	50 °C	B2661	**16U450**
	3,450	CCWSE	Auto	Single	115/230V AC	10.8/5.4	1.25	F	Standard	50 °C	B2852	**16U447**
1	3,450	CCWSE	Auto	Single	115/230V AC	13.0/6.5	1.25	F	Standard	50°C	B2853V1	**16U442**
	3,450	CCWSE	Auto	Single	115/230V AC	16.0/8.0	1.65	F	Standard	50 °C	B2848V1	**6UEV4** *
1 ½	3,450	CCWSE	Auto	Single	115/230V AC	16.0/8.0	1.1	F	Standard	50°C	B2854V1	**16U440**
	3,450	CCWSE	Auto	Single	115/230V AC	21.0/10.5	1.5	F	Standard	50 °C	B2858	**6FJF3**
	3,450	CCWSE	Auto	Single	208-230V AC	9.6-8.8	1.47	F	Standard	50 °C	B2842	**16U449**
	3,450	CCWSE	Auto	Single	230V AC	10.0/3.5	1.5	B	Standard	50 °C	B2849	**16U443**
2, ⅓	3,450/1,725	CCWSE	Auto	Single	230V AC	10.0/3.5	1.1	B	Standard	50 °C	B985	**16U436**
2	3,450	CCWSE	Auto	Single	115/230V AC	21.0/10.5	1.1	F	Standard	50 °C	B2859	**16U452**
	3,450	CCWSE	Auto	Single	208-230V AC	11.0/10.2	1.3	F	Standard	50 °C	B2843	**16U446**
	3,450	CCWSE	Auto	Single	230V AC	10.0	1.1	B	Standard	50°C	B2855	**16U441**
	3,450	CCWSE	Auto	Single	230V AC	11.5	1.3	F	Standard	50 °C	B2748	**6UEV5** *
2 ½	3,450	CCWSE	Auto	Single	230V AC	10.0/3.5	1.04	F	Standard	50 °C	B2840V1	**16U448**
3	3,450	CCWSE	Auto	Single	208-230V AC	15.0-13.6	1.15	F	Standard	50 °C	B2844	**16U444**
56Y Frame, Capacitor-Start/Run												
¾, ⅒	3,450/1,725	CCWSE	Auto	Single	115V AC	12.2/2.00	1.67	F	Efficient	50 °C	B2981	**16U437**
	3,450/1,725	CCWSE	Auto	Single	230V AC	5.8/0.90	1.67	F	Efficient	50 °C	B2980	**16U439**
1, ⅒	3,450/1,725	CCWSE	Auto	Single	230V AC	7.4/1.4	1.65	F	Efficient	50 °C	B2982	**16U438**
1 ½, ⅙	3,450/1,725	CCWSE	Auto	Single	230V AC	10.0/1.6	1.47	F	Efficient	50 °C	B2983	**16U434**
2, ¼	3,450/1,725	CCWSE	Auto	Single	230V AC	11.0/1.80	1.3	F	Efficient	50 °C	B2984	**16U435**
3	3,450	CCWSE	Auto	Single	208-230V AC	15.0-13.3	1.15	B	Efficient	50 °C	SQ1302V1	**2GMP9** *
56Y Frame, 3-Phase												
½	3,450	CW/CCW	None	Three	208-230/460V AC	3.2-3.0/1.50	1.9	B	Standard	50 °C	H491	**4YY42** *
¾	3,450	CW/CCW	None	Three	208-230/460V AC	3.8-3.6/1.80	1.65	B	Standard	50 °C	H492	**4YY43** *
1	3,450	CW/CCW	None	Three	208-230/460V AC	5.0-4.6/2.3	1.65	B	Standard	50 °C	H635	**4YY44** *
1 ½	3,450	CW/CCW	None	Three	208-230/460V AC	6.4-5.8/2.9	1.47	B	Standard	50 °C	H636	**4YY45** *
2	3,450	CW/CCW	None	Three	208-230/460V AC	7.1-6.8/3.4	1.3	B	Standard	50 °C	H637	**4YY46** *
3	3,450	CW/CCW	None	Three	208-230/460V AC	9.8-9.6/4.8	1.15	B	Standard	50 °C	H755	**4YY47** *
	3,450	CW/CCW	None	Three	208-230/460V AC	10.0/5.0	1.15	B	Standard	50 °C	Q3302V1	**16U454**
5	3,450	CW/CCW	None	Three	208-230/460V AC	13.4-13.4/6.7	1	B	Standard	40 °C	H995	**16U481**

***** *Motor shafts also have ¼-20 UNC-2B LH internal threads.*

Century®

1-Phase and 3-Phase Square-Flange Pool Pump Motors

- Enclosure: open dripproof
- Mounting: flange, horizontal only
- Bearings: ball

Motors are equivalent replacements for most popular pool and spa manufacturers' pumps. Permanent split capacitor and 3-phase motors are single-compartment design. Capacitor-start/run motors are 2-compartment design.

Shaft: 303 stainless steel, ½-20 UNF-2A RH external threads.

Additional square-flange pump motors are available on Grainger.com.

Note: Must equal or exceed service factor and HP for proper replacement.

HP	Nameplate RPM	Voltage	Full Load Amps	Motor Service Factor	Motor Efficiency Group	Motor Flange Material	Max. Ambient Temp.	Mfr. Model	Item No.
56C Frame, Capacitor-Start/Run									
½	3,450	115/230V AC	4.0/8.0	1.6	Efficient	Aluminum	50 °C	CK1052	**5PE35**
¾	3,450	115/230V AC	5.5/11.0	1.5	Efficient	Aluminum	50 °C	CK1072	**5PE37**
1	3,450	115/230V AC	6.8/13.6	1.4	Efficient	Aluminum	50 °C	CK1102	**5PE39**
1 ½	3,450	115/230V AC	19.4/9.7	1.3	Efficient	Aluminum	50 °C	SK1152	**5PE45**
2	3,450	230V AC	11.2	1.3	Efficient	Aluminum	50 °C	SK1202	**5PE46**
3	3,450	208-230V AC	15.0-13.3	1.15	Efficient	Aluminum	50 °C	SK1302V1	**3CZR4**
56C Frame, Permanent Split Capacitor									
½	3,450	115/208-230V AC	8.2/4.4-4.1	1.5	Efficient	Cast-Iron	50 °C	B639	**5PB73**
	3,450	115/230V AC	4.4/8.8	1.6	Standard	Aluminum	50 °C	B120	**5PB61**
¾	3,450	115/230V AC	6.0/12.0	1.5	Standard	Aluminum	50 °C	B121	**5PB62**
1	3,450	115/208-230V AC	6.4-5.9/11.8	1.4	Efficient	Aluminum	50 °C	B653	**5PB93**
	3,450	115/230V AC	7.2/14.4	1.4	Standard	Aluminum	50 °C	B122	**5PB63**
1 ½	3,450	115/208-230V AC	8.7-7.8/15.6	1.3	Efficient	Aluminum	50 °C	B795	**5PB97**
	3,450	115/230V AC	9.2/18.4	1.3	Standard	Aluminum	50 °C	B123	**5PB64**
2	3,450	115/230V AC	21.6/10.8	1.2	Standard	Aluminum	50 °C	B835	**16U472**
	3,450	208-230V AC	10.4	1.2	Efficient	Aluminum	50 °C	B808	**5PE11**
	3,450	230V AC	10.5	1.2	Standard	Aluminum	50 °C	B124	**5PB65**
3	3,450	208-230V AC	15.0-13.6	1.15	Efficient	Aluminum	50 °C	B817	**5PE15**
	3,450	230V AC	14.1	1.15	Standard	Aluminum	50 °C	B125	**16U473**
56J Frame, Capacitor-Start/Run									
½	3,450	115/230V AC	4.0/8.0	1.6	Efficient	Aluminum	50 °C	CT1052	**5PE40**
¾	3,450	115/230V AC	5.5/11.0	1.5	Efficient	Aluminum	50 °C	CT1072	**5PE41**
	3,450	115/230V AC	8.0/4.0	1	Efficient	Aluminum	50 °C	UCT1072V1	**16U479**
1, ⅒	3,450/1,725	230V AC	7.0/2.3	1.5	Efficient	Aluminum	50 °C	STS1102RV1	**16U474**
1	3,450	115/230V AC	6.8/13.6	1.4	Efficient	Aluminum	50 °C	CT1102	**5PE53**
	3,450	115/230V AC	11.0/5.5	1	Efficient	Aluminum	50 °C	UCT1102	**16U477**
1 ½, ¼	3,450/1,725	230V AC	9.0/3.3	1.3	Efficient	Aluminum	40 °C	STS1152R	**5PE56**
1 ½	3,450	115/208-230V AC	19.6/10.4-9.8	1.47	Efficient	Aluminum	50 °C	ST1152	**5PE50**
	3,450	115/230V AC	14.6/7.3	1	Efficient	Aluminum	50 °C	UCT1152	**16U478**
2	3,450	115/208-230V AC	19.6/10.4-9.8	1	Efficient	Aluminum	50 °C	UST1202	**5PE61**
	3,450	208-230V AC	12.6-11.4	1.3	Efficient	Aluminum	50 °C	ST1202	**5PE51**
2 ½	3,450	208-230V AC	12.6-11.4	1.06	Efficient	Aluminum	50 °C	UST1252	**16U476**
3	3,450	208-230V AC	15.0-13.3	1.15	Efficient	Aluminum	50 °C	ST1302V1	**2LJF9**
56J Frame, Permanent Split Capacitor									
½	3,450	115/208-230V AC	7.4/4.0-3.7	1.6	Efficient	Aluminum	50 °C	B657	**16U468**
	3,450	115/230V AC	4.4/8.8	1.6	Standard	Aluminum	50 °C	B126	**5PB66**
¾	3,450	115/208-230V AC	5.4-5.0/10.0	1.5	Efficient	Aluminum	50 °C	B638	**5PB91**
	3,450	115/230V AC	6.0/12.0	1.5	Standard	Aluminum	50 °C	B127	**5PB67**
	3,450	115/230V AC	8.8/4.4	1	Standard	Aluminum	50 °C	B227SE	**5PB79**
	3,450	115/230V AC	12.0/6.0	1.5	Standard	Cast-Iron	50 °C	164360C	**5PB58**
1	3,450	115/208-230V AC	6.4-5.9/11.8	1.4	Efficient	Aluminum	50 °C	B654	**5PB95**
	3,450	115/230V AC	7.2/14.4	1.4	Standard	Aluminum	50 °C	B128	**5PB68**
	3,450	115/230V AC	12.0/6.0	1	Standard	Aluminum	50 °C	B228SE	**5PB81**
1 ½, ⅕	3,450/1,725	115V AC	14.6/4.4	1.1	Efficient	Aluminum	50 °C	B969	**16U466**
1 ½	3,450	115/208-230V AC	8.7-7.8/15.6	1.3	Efficient	Aluminum	50 °C	B796	**5PB99**
	3,450	115/230V AC	9.2/18.4	1.3	Standard	Aluminum	50 °C	B129	**5PB69**
	3,450	115/230V AC	14.4/7.2	1	Standard	Aluminum	50 °C	B229SE	**5PB83**
	3,450	115/230V AC	18.4/9.2	1.3	Standard	Cast-Iron	50 °C	164362C	**5PB60**
2	3,450	115/230V AC	18.4/9.2	1	Standard	Aluminum	50 °C	B230SE	**5PB85**
	3,450	115/230V AC	21.6/10.8	1.2	Standard	Aluminum	50 °C	B836	**16U471**
	3,450	208-230V AC	10.4	1.2	Efficient	Aluminum	50 °C	B809	**5PE13**
	3,450	230V AC	10.5	1.2	Standard	Aluminum	50 °C	B130	**5PB71**
2 ½	3,450	230V AC	10.5	1	Standard	Aluminum	50 °C	B231SE	**5PB87**
3, ⅓	3,450/1,725	230V AC	13.8/4.0	1.15	Efficient	Aluminum	40 °C	B966	**16U465**
3	3,450	208-230V AC	15.0-13.6	1.15	Efficient	Aluminum	50 °C	B818	**5PE17**
	3,450	230V AC	14.1	1.15	Standard	Aluminum	50 °C	B131	**16U470**

56C Frame, Permanent Split Capacitor

56J Frame, Capacitor-Start/Run

56J Frame, Permanent Split Capacitor

Century®

1-Phase Face-Mount Pool Pump Motors

- Enclosure: open dripproof
- Insulation: Class B
- Rotation: CCWSE
- Bearings: ball
- Thermal protection: auto

Motors are equivalent replacements for most popular pool and spa pump manufacturers' pumps. Sealed switch design prevents water infiltration. Moisture/heat-resistant bearing lubricant.

56C frame shaft: keyed steel, ⅝" dia. x 1⅞"L with 3⁄16"W keyway.

56J frame shaft: 303 stainless steel, 7⁄16-20 UNF-2A RH threaded 11⁄16" from end.

Note: Must equal or exceed service factor and HP for proper replacement.

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Split-Phase Carbonator Pump Motors

- Enclosure: open dripproof
- Thermal protection: auto
- Bearings: ball
- Max. ambient temp.: 40°C

Motors have a threaded conduit hole. Short, slotted shaft permits close-coupling the carbonator pump to the motor. Extended hub for direct-mounting pump to motor. Use for liquid transfer pumps, vending machine pumps, and other hub-mounted pump applications. See page 2698 for an assortment of suitable pumps.

Cradle Base-Mount
484H28

Rigid Base-Mount
5U254

HP	Nameplate RPM	Frame	Motor Shaft Rotation	Voltage	Hz	Full Load Amps	Motor Service Factor	Ins. Class	Shaft Dia.	Brand	Mfr. Model	Item No.	
Cradle Base-Mount													
¼	1,725	48Y	CW/CCW	115V AC	60	5.0	1	B	½ in	Marathon	5KH32DN5587X	**3K067**	
	1,725	48YZ	CW/CCW	120/240V AC	60/50	5.1-5.0/2.6-2.5	1	B	⅝ in	Dayton	484H28	**484H28**	
⅓	1,725	48	CW/CCW	115V AC	60	6.5	1	B	⅝ in	Dayton	484H30	**484H30**	
	1,725	48Y	CW/CCW	115/230V AC	60/50	5.6-5.5/2.8-2.7	1	B	⅝ in	Marathon	5KH33GNA444X	**5U257**	
	1,725	48Y	CW/CCW	115/230V AC	60	5.6-5.5/2.8-2.7	1	B	⅝ in	Marathon	5KH32GNB811X	**3K987**	
	1,725	48Y	CW/CCW	115V AC	60	5.6	1.15	B	½ in	Marathon	5KH32FN5586X	**3K068**	
	1,725	48Y	CW/CCW	115V AC	60	6.1	1	B	⅝ in	Marathon	5KH32ENA443X	**5U256**	
	1,725	48Y	CW/CCW	230V AC	60	2.7	1	B	⅝ in	Marathon	5KH32GNB812X	**2K457**	
	1,725	48YZ	CW/CCW	120/240V AC	60/50	5.7-5.6/2.8-2.8	1	B	⅝ in	Dayton	484H31	**484H31**	
½	1,725	48Y	CW/CCW	115/230V AC	60	7.1-7.2/3.4-3.6	1	B	⅝ in	Marathon	5KH36MNA445X	**5U258**	
	1,725	48Y	CW/CCW	115V AC	60	7.2	1.2	B	⅝ in	Marathon	5KH36MNB637X	**5XB87**	
	1,725	48YZ	CW/CCW	115V AC	60	8.4	1	B	⅝ in	Dayton	484H33	**484H33**	
	1,725	48YZ	CW/CCW	120/240V AC	60/50	7.7-7.6/3.9-3.9	1	F	⅝ in	Dayton	484H32	**484H32**	
¾	1,725	48Y	CW/CCW	115/230V AC	60	10.4/5.2	1	B	⅝ in	Marathon	5KH37PNA479X	**10A276**	
Rigid Base-Mount													
¼	1,725	48Y	CW/CCW	115V AC	60	5.0	1	B	½ in	Marathon	5KH32DN5597X	**5U253**	
⅓	1,725	48Y	CW/CCW	115/230V AC	60	5.6/2.8	1	B	½ in	Marathon	5KH32GNB815X	**3VG37**	*
	1,725	48Y	CW/CCW	115V AC	60	5.6	1.15	B	½ in	Marathon	5KH32FN5598X	**5U254**	
	1,725	48YZ	CWSE	115V AC	60	6.0	1	B	⅝ in	Dayton	484H29	**484H29**	

***** Has ½" x 1½" rear shaft extension.*

Open Dripproof
with Face/Base-Mount
4UX55

Open Dripproof
with Rigid Base-Mount
454X49

1-Phase Pressure Washer Pump Motors

- Rotation: CW/CCW, except 4UX55 is CWSE
- Thermal protection: manual
- Bearings: ball
- Max. ambient temp.: 40°C

Corrosion-resistant; for use in hot and cold water high-pressure washer applications.

Totally Enclosed
Fan-Cooled
with Rigid Base-Mount
21AJ16

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Ins. Class	Shaft Dia.	Brand	Mfr. Model	Item No.	
Open Dripproof, Face/Base-Mount, Capacitor-Start											
5	3,450	56HCZ	208-230V AC	22.0-20.0	1.15	B	¾ in	Dayton	4UX55	**4UX55**	*
Open Dripproof, Rigid Base-Mount, Capacitor-Start/Run											
2	3,450	56	115/230V AC	17.8/8.9	1.15	B	⅝ in	Marathon	056B34D15537	**454X49**	
Totally Enclosed Fan-Cooled, Rigid Base-Mount, Capacitor-Start											
¾	1,725	56C	115/208-230V AC	11.0/5.4-5.5	1.15	B	⅝ in	Marathon	056C17F5955	**21AJ16**	
1	1,725	56C	115/208-230V AC	13.4/6.8-6.7	1.15	B	⅝ in	Marathon	056C17F5956	**21AJ17**	
Totally Enclosed Fan-Cooled, Rigid Base-Mount, Capacitor-Start/Run											
2	3,450	56HC	115/230V AC	17.5/8.7	1.15	B	⅝ in	Marathon	056B34F5312	**21AJ14**	

***** ¾" x 1⅞" shaft.*

12V DC
6MK98

180V DC
48ZG71

Dayton LEESON

NEMA Frame 12, 24, 90, and 180VDC Permanent Magnet Motors

- Rotation: CW/CCW
- Service factor: 1.0
- Mounting: Face/base
- Bearings: ball
- Max. ambient temp.: 40°C

Designed for use with speed controls or NEMA Type K DC power supplies on constant or diminishing torque applications. Performance matched with Dayton and Dart Speed Controls found on page 159. Dayton 90V and 180V models feature a tapped hole on the fan end shaft to mount a 6Z392 or 5JJ65 pulse generator found on page 159. 56C frame models have a removable base. All motors are designed for mechanical loads and for hard-to-start applications such as conveyors, belt-driven equipment, machine tools, and reciprocating pumps.

HP	Nameplate RPM	Frame	Motor Enclosure Design	Full Load Amps	Ins. Class	Overall Length	Brand	Item No.
12V DC								
¼	1,800	56C	TENV	21.0 A	F	10 ¼ in	Dayton	**6MK98**
¼	1,800	56C	TENV	21.0 A	F	10 ¼ in	Leeson	**48ZG47**
⅓	1,800	56C	TENV	27.0 A	F	10 ¾ in	Dayton	**6MK99**
⅓	1,800	56C	TENV	27.0 A	F	10 ¾ in	Leeson	**48ZG48**
½	1,800	56C	TENV	39.0 A	H	11 ¾ in	Dayton	**6ML02**
½	1,800	56C	TENV	39.0 A	H	11 ¾ in	Leeson	**48ZG49**
¾	1,800	56C	TEFC	58.0 A	F	13 5⁄16 in	Dayton	**6ML04**
¾	1,800	56C	TEFC	58.0 A	F	13 5⁄16 in	Leeson	**48ZG50**
1	1,800	56C	TEFC	80.0 A	H	13 13⁄16 in	Dayton	**6ML06**
1	1,800	56C	TEFC	80.0 A	H	13 13⁄16 in	Leeson	**48ZG51**
24V DC								
⅓	1,800	56C	TENV	13.5 A	F	10 ¾ in	Dayton	**6ML01**
⅓	1,800	56C	TENV	13.5 A	F	10 ¾ in	Leeson	**48ZG52**
½	1,800	56C	TENV	20.0 A	F	11 ¾ in	Dayton	**6ML03**
½	1,800	56C	TENV	20.0 A	F	11 ¾ in	Leeson	**48ZG53**
¾	1,800	56C	TEFC	29.0 A	F	12 13⁄16 in	Dayton	**6ML05**
¾	1,800	56C	TEFC	29.0 A	F	10 ¾ in	Leeson	**48ZG54**
1	1,800	56C	TEFC	39.0 A	H	13 13⁄16 in	Dayton	**6ML07**
1	1,800	56C	TEFC	39.0 A	H	13 13⁄16 in	Leeson	**48ZG55**
90V DC								
¼	1,750	56C	TEFC	2.5 A	F	10 13⁄16 in	Dayton	**2M167**
¼	1,750	56C	TEFC	2.5 A	F	10 13⁄16 in	Leeson	**48ZG56**
⅓	1,750	56C	TEFC	3.5 A	F	11 5⁄16 in	Dayton	**2M509**
⅓	1,750	56C	TEFC	3.5 A	F	11 5⁄16 in	Leeson	**48ZG57**
½	2,500	56C	TEFC	5.0 A	F	10 13⁄16 in	Leeson	**48ZG61**
½	1,750	56C	TEFC	5.0 A	F	11 13⁄16 in	Leeson	**48ZG58**
½	1,725	56C	TEFC	5.0 A	F	11 13⁄16 in	Dayton	**2M168**
¾	2,500	56C	TEFC	7.6 A	F	11 13⁄16 in	Leeson	**48ZG62**
¾	1,750	56C	TEFC	7.6 A	F	13 13⁄16 in	Leeson	**48ZG59**
¾	1,725	56C	TEFC	7.6 A	F	13 13⁄16 in	Dayton	**2M169**
1	2,500	56C	TEFC	10.0 A	F	13 5⁄16 in	Leeson	**48ZG63**
1	1,750	56C	TEFC	10.0 A	F	14 13⁄16 in	Dayton	**2M170**
1	1,750	56C	TEFC	10.0 A	F	14 13⁄16 in	Leeson	**48ZG60**
180V DC								
⅓	1,750	56C	TEFC	1.70	F	11 31⁄100 in	Leeson	**60PT98**
½	1,750	56C	TEFC	2.5 A	F	11 13⁄16 in	Leeson	**48ZG64**
½	1,725	56C	TEFC	2.5 A	F	11 13⁄16 in	Dayton	**4Z524**
¾	1,750	56C	TEFC	3.8 A	F	13 13⁄16 in	Dayton	**4Z525**
¾	1,750	56C	TEFC	3.8 A	F	13 13⁄16 in	Leeson	**48ZG65**
1	2,500	56C	TEFC	5.0 A	F	13 13⁄16 in	Leeson	**48ZG71**
1	1,750	56C	TEFC	5.0 A	F	14 13⁄16 in	Dayton	**4Z378**
1	1,750	56C	TEFC	5.0 A	F	14 13⁄16 in	Leeson	**48ZG66**
1½	2,500	56C	TEFC	7.5 A	H	15 5⁄16 in	Leeson	**48ZG72**
1½	1,750	56C	TEFC	7.6 A	H	16 13⁄16 in	Leeson	**48ZG67**
1½	1,750	143/5TC	TEFC	7.5 A	H	18 5⁄16 in	Dayton	**4Z379**
1½	1,750	143/5TC	TEFC	7.6 A	H	17 ⅜ in	Leeson	**48ZG68**
1½	1,750	145TC	TEFC	7.5	H	18 17⁄50 in	Leeson	**60PT99**
2	2,500	56CZ	TEFC	8.6 A	F	17 ⅞ in	Leeson	**48ZG73**
2	1,750	143/5TC	TEFC	9.5 A	H	19 5⁄16 in	Leeson	**48ZG69**
3	1,750	143/5TC	TEFC	15.0 A	H	22 5⁄16 in	Dayton	**6Z791**
3	1,750	143/5TC	TEFC	14.0 A	H	19 ⅝ in	Leeson	**48ZG70**

Dayton

90 and 180VDC Permanent Magnet Motors with Control

4Z248

- Enclosure: totally enclosed fan-cooled, NEMA 1 control
- Rotation: CW/CCW
- Insulation: Class F
- Mounting: C-face with removable rigid base
- Bearings: ball
- Max. ambient temp.: 40°C
- Input: 115 or 230VAC, 60/50 Hz (4Z226 requires 250V, 20A receptacle)
- 50:1 control speed range

Control regulates speeds within 1% of nameplate rpm and provides full-wave rectification with adjustable min./max. speed, current/torque limit, IR compensation, fixed acceleration, transient and surge protection, and front-panel fuse protection.

HP	Nameplate RPM	Frame	Full Load Amps	Full Load Torque	Overall Length	Item No.
115V AC Input, 90V DC Armature						
¼	1,750	56C	2.5 A	9.1 in-lb	15 ½ in	**4Z248**
½	1,750	56C	5.0 A	18.2 in-lb	16 ½ in	**1F800**
¾	2,500	56C	7.6 A	18.9 in-lb	16 ½ in	**2Z846**
	1,750	56C	7.6 A	27 in-lb	18 ½ in	**1F796**
1	1,750	56C	10.0 A	36.6 in-lb	20 ½ in	**1F798**
230V AC Input, 180V DC Armature						
1 ½	2,500	56C	7.5 A	37.8 in-lb	19 ½ in	**4Z226**

Enclosure	AC Input Voltage	HP @ 90VDC	HP @ 180VDC	External Switches	W	H	D	Mfr. Model	Item No.
Replacement Speed Control									
NEMA 1	120/240V AC	¼ to 1	½ to 2	FWD/OFF/REV	6 in	5.13 in	6.5 in	41D720	**41D720**

** Fuse protected.*

Dayton

12VDC Permanent Magnet Motor

- Enclosure: totally enclosed nonventilated
- Rotation: CW/CCW
- Bearings: sleeve
- Max. ambient temp.: 40°C

For use with mobile home and RV ventilation or pumps, and with automotive heaters or air conditioners. Shaft is ¼" x 1" with flat. 3⅕"-dia. body mounts with ½"-long studs, 2⁵⁄₁₆" on center.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ins. Class	Overall Length	Item No.
1⁄35	2,350	Non-Standard	12V DC	3.8 A	A	4 ⅞ in	**3LCH7**

Dayton

Non-Standard Frame 12/24, 90, and 180VDC Permanent Magnet Motors

3XE19

- Enclosure: totally enclosed nonventilated
- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C

Use with Type K DC rectified power sources matched to voltage (providing form factor does not exceed 1.3); see page 159. For adjustable speed controls see page 159.

HP	Nameplate RPM	Full Load Torque	Full Load Amps	Ins. Class	Shaft Dia.	Overall Length	Base Mounting O.C.	Face Mounting O.C.	Item No.
12/24V DC									
1⁄18, 1⁄44	1,800/4,300	0.8 in-lb	2.4 A	B	¼ in	5 15⁄16 in	3¾ x 1¼ in	1¾ x 1¾	**3XE19**
1⁄9, 1⁄20	1,725/4,000	1.8 in-lb	5.1 A	B	5⁄16 in	6 27⁄64 in	4 15⁄16 x 1¼ in	1¾ x 1¾	**3XE20**
¼, 1⁄7	1,750/3,900	5.6 in-lb	14.0 A	B	½ in	8 ⅜ in	6 7⁄16 x 2 in	2⅝ x 2⅝	**4Z143**
⅙, 1⁄14	1,750/4,200	2.6 in-lb	6.9 A	B	½ in	6 ⅜ in	4 7⁄16 x 2 in	2⅝ x 2⅝	**4Z144**
⅓, ⅙	1,800/4,200	6.4 in-lb	16.2 A	B	½ in	9 ⅜ in	7 7⁄16 x 2 in	2⅝ x 2⅝	**4Z529**
90V DC									
1⁄53	2,500	0.5 in-lb	0.30 A	B	¼ in	5 15⁄16 in	3½ x 1¼ in	1¾ x 1¾	**3XE21**
1⁄27	1,800	1.3 in-lb	0.50 A	B	5⁄16 in	6 7⁄16 in	4 11⁄16 x 1¼ in	1¾ x 1¾	**3XE22**
1⁄18	1,800	1.9 in-lb	0.80 A	B	½ in	6 ⅜ in	4 7⁄16 x 2 in	2⅝ x 2⅝	**4Z141**
⅛	1,800	4.4 in-lb	1.50 A	B	½ in	8 ⅜ in	6 7⁄16 x 2 in	2⅝ x 2⅝	**4Z140**
⅙	1,800	5.6 in-lb	1.80 A	B	½ in	9 ⅜ in	7 7⁄16 x 2 in	2⅝ x 2⅝	**4Z528**
180V DC									
⅙	1,800	5.6 in-lb	0.90 A	F	½ in	9 ⅜ in	7 7⁄16 x 2 in	2⅝ x 2⅝	**1Z851**

6AGW5

WEG marathon Motors NEMA Premium

Severe-Duty 3-Phase IEEE 841 NEMA Premium Efficient Motors

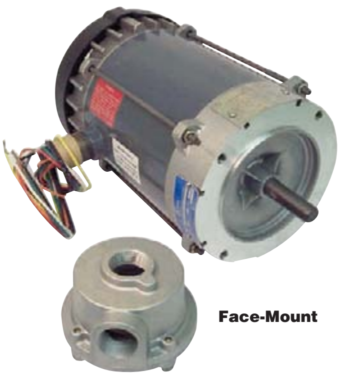
- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: none
- 460V
- Service factor: 1.25 for Weg; 1.15 for Marathon
- Insulation: Weg are Class F with B temp. rise for longer life; Marathon are H (except 19RV44 is F)
- Inverter rated
- Frame material: cast-iron
- Bearings: ball
- Max. ambient temp.: 40°C

Designed for dusty, dirty, nonhazardous applications, and especially suited for pulp, paper, and steel mills, petrochemical, and applications requiring severe-duty long-life motors. Internal and external corrosion-resistant finish with stainless steel nameplate. Nonsparking fan. Weg motors feature Inpro-seal on drive end, and 50,000-hr. extended bearing life. All meet or exceed IEEE 841-2009 specification and all NEMA Premium/CEE requirements for energy efficiency.

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Eff.	Overall Length	Brand	Mfr. Model	Item No.
Rigid Base-Mount								
1	1,760	143T	1.50	85.5 %	13½"	Weg	00118ST3QIE143T-W22	**6AGU1**
1½	3,480	143T	1.90	84 %	13½"	Weg	00156ST3QIE143T-W22	**6AGU3**
	1,755	145T	2.00	86.5 %	13½"	Weg	00158ST3QIE145T-W22	**6AGU4**
	1,170	182T	2.6	87.5 %	15 13/16"	Weg	00152ST3QIE182T-W22	**6AGU5**
2	1,755	145T	2.8	86.5 %	13½"	Weg	00218ST3QIE145T-W22	**6AGU7**
3	3,510	182T	3.6	86.5 %	15 13/16"	Weg	00336ST3QIE182T-W22	**6AGU9**
	1,760	182T	3.9	89.5 %	15 13/16"	Weg	00318ST3QIE182T-W22	**6AGV0**
5	3,485	184T	5.9	88.5 %	15 13/16"	Weg	00536ST3QIE184T-W22	**6AGV2**
	1,755	184T	6.5	89.5 %	15 13/16"	Weg	00518ST3QIE184T-W22	**6AGV3**
	1,170	215T	6.8	89.5 %	19 9/16"	Weg	00512ST3QIE215T-W22	**6AGV4**
	1,755	184T	6.5	90.2 %	16 3/16"	Marathon	184THFCD9026	**19RV10**

HP	Nameplate RPM	Frame	Full Load Amps	Nom. Eff.	Overall Length	Brand	Mfr. Model	Item No.
Rigid Base-Mount (Cont.)								
7½	3,520	213T	8.8	89.5 %	19 9/16"	Weg	00736ST3QIE213T-W22	**6AGV5**
	1,765	213T	9.2	91.7 %	19 9/16"	Weg	00718ST3QIE213T-W22	**6AGV6**
	1,175	254T	9.5	91 %	24 15/16"	Weg	00712ST3QIE254T-W22	**6AGV7**
10	3,510	215T	11.6	90.2 %	19 9/16"	Weg	01036ST3QIE215T-W22	**6AGV8**
	1,765	215T	12.4	91.7 %	19 9/16"	Weg	01018ST3QIE215T-W22	**6AGV9**
	1,180	256T	12.9	91 %	24 15/16"	Weg	01012ST3QIE256T-W22	**6AGW0**
15	3,530	254T	17.2	91 %	24 15/16"	Weg	01536ST3QIE254T-W22	**6AGW1**
	1,765	254T	18.0	92.4 %	24 15/16"	Weg	01518ST3QIE254T-W22	**6AGW2**
	3,545	254T	17.8	93.6 %	24⅛"	Marathon	254THFCD9001	**19RV24**
	1,772	254T	18.8	91.7 %	24⅛"	Marathon	254THFCD9026	**19RV25**
	875	286T	22.0	94.1 %	27 11/16"	Marathon	286THFNA19101	**19RV44**
20	3,520	256T	23.2	91 %	24 15/16"	Weg	02036ST3QIE256T-W22	**6AGW4**
	1,765	256T	24.1	93 %	24 15/16"	Weg	02018ST3QIE256T-W22	**6AGW5**
	1,175	286T	24.2	91.7 %	27 15/16"	Weg	02012ST3QIE286T-W22	**6AGW6**
	3,540	256T	23.7	91.7 %	25⅞"	Marathon	256THFCD9001	**19RV31**
	1,768	256T	24.2	91.7 %	25⅞"	Marathon	256THFCD9026	**19RV32**
25	1,765	284T	29.5	93.6 %	27 15/16"	Weg	02518ST3QIE284T-W22	**6AGW8**
	1,772	284T	30.0	93.6 %	26⅝"	Marathon	284THFCD9026	**19RV38**
30	3,535	286TS	33.8	91.7 %	26 9/16"	Weg	03036ST3QIE286TS-W22	**6AGX0**
	1,760	286T	35.1	93.6 %	27 15/16"	Weg	03018ST3QIE286T-W22	**6AGX1**
	1,180	326T	35.8	93 %	31⅛"	Weg	03012ST3QIE326T-W22	**6AGX2**
	1,770	286T	35.5	94.1 %	28⅛"	Marathon	286THFCD9026	**19RV45**
40	1,770	324T	47.1	94.1 %	31⅛"	Weg	04018ST3QIE324T-W22	**6AGX4**
	1,185	364/5T	46.5	94.1 %	34 7/16"	Weg	04012ST3QIE364T-W22	**6AGX5**
	1,782	324T	47.5	94.5 %	29⅞"	Marathon	324THFCD9026	**19RV49**
50	3,550	326TS	56.1	93 %	29⅝"	Weg	05036ST3QIE326TS-W22	**6AGX6**
	1,775	326T	59.2	94.5 %	31⅛"	Weg	05018ST3QIE326T-W22	**6AGX7**
	1,180	364/5T	57.4	94.1 %	34 7/16"	Weg	05012ST3QIE365T-W22	**6AGX8**
60	3,600	364/5TS	67.0	93.6 %	32 5/16"	Weg	06036ST3QIE364TS-W22	**15G077**
75	3,600	364/5TS	81.9	93.6 %	32 5/16"	Weg	07536ST3QIE365TS-W22	**15G079**
100	1,800	404/5T	111.0	95.4 %	39¾"	Weg	10018ST3QIERB405T-W2	**15G081**
	3,600	404/5TS	110.0	94.1 %	36¾"	Weg	10036ST3QIE405TS-W22	**15G082**
Face/Base-Mount								
1	1,760	143TC	1.50	85.5 %	13½"	Weg	00118ST3QIE143TC-W22	**12N928**
	1,160	145TC	1.70	82.5 %	13½"	Weg	00112ST3QIE145TC-W22	**12N929**
1½	1,755	145TC	2.00	86.5 %	13½"	Weg	00158ST3QIE145TC-W22	**12N930**
	1,170	182TC	2.6	87.5 %	15 13/16"	Weg	00152ST3QIE182TC-W22	**12N931**
2	1,755	145TC	2.8	86.5 %	13½"	Weg	00218ST3QIE145TC-W22	**12N932**
	1,170	184TC	3.2	88.5 %	15 13/16"	Weg	00212ST3QIE184TC-W22	**12N933**
3	1,760	182TC	3.9	89.5 %	15 13/16"	Weg	00318ST3QIE182TC-W22	**12N934**
	1,175	213TC	4.4	89.5 %	19½"	Weg	00312ST3QIE213TC-W22	**12N935**
5	1,755	184TC	6.5	89.5 %	15 13/16"	Weg	00518ST3QIE184TC-W22	**12N936**
	1,170	215TC	6.8	89.5 %	19 9/16"	Weg	00512ST3QIE215TC-W22	**12N937**
7½	1,765	213TC	9.2	91.7 %	19 9/16"	Weg	00718ST3QIE213TC-W22	**12N938**
	1,175	254TC	9.5	91 %	24 15/16"	Weg	00712ST3QIE254TC-W22	**12N939**
10	1,765	215TC	12.4	91.7 %	19 9/16"	Weg	01018ST3QIE215TC-W22	**12N940**
	1,175	256TC	12.9	91 %	24 15/16"	Weg	01012ST3QIE256TC-W22	**12N941**
15	1,800	254TC	18.0	92.4 %	24 15/16"	Weg	01518ST3QIE254TC-W22	**12N942**
	1,200	284TC	17.9	91.7 %	27 15/16"	Weg	01512ST3QIE284TC-W22	**12N943**
20	1,765	256TC	24.1	93 %	24 15/16"	Weg	02018ST3QIE256TC-W22	**12N944**
	1,175	286TC	24.2	91.7 %	27 15/16"	Weg	02012ST3QIE286TC-W22	**12N945**
25	3,535	284TS	28.5	91.7 %	26 9/16"	Weg	02536ST3QIE284TS-W22	**6AGW7**
	1,765	284TC	29.5	93.6 %	27 15/16"	Weg	02518ST3QIE284TC-W22	**12N946**
	1,175	324TC	30.4	93 %	31⅛"	Weg	02512ST3QIE324TC-W22	**12N947**
30	1,760	286TC	35.1	93.6 %	27 15/16"	Weg	03018ST3QIE286TC-W22	**12N948**
	1,180	326TC	35.8	93 %	31⅛"	Weg	03012ST3QIE326TC-W22	**12N949**

Rigid Base-Mount



Face-Mount

1-Phase Hazardous Location Motors

marathon Motors

- Enclosure: totally enclosed fan-cooled, except where noted
- Rotation: CW/CCW
- Thermal protection: auto, except thermostat for 2NLE6
- Bearings: ball
- Max. ambient temp.: 40°C

Motors have sturdy rolled-steel frames and meet the National Electrical Code for hazardous locations. Unmounted conduit box is included with all 56-frame motors. Use to power fans, blowers, pumps, or air compressors in areas that meet the National Electrical Code for hazardous locations.

Note: For assistance with hazardous location classification, see page 6.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Length Less Shaft	Hazardous Loc. Class & Group	Mfr. Model	Item No.
Rigid Base-Mount, Capacitor-Start										
¼	1,725	56	115/208-230V AC	4.8/2.3-2.4	1	B	10 in	1 C,D / 2 E,F,G	056C17E15503	**1TUL8** *
	1,725	48	115/230V AC	4.2/2.1	1	B	9 ⅛ in	1 D / 2 F,G	5KC36PNB169	**3K793** *
	1,140	56	115/208-230V AC	6.8/3.4-3.1	1	B	12 in	1 C,D / 2 E,F,G	056C11G15502	**1TUL1**
⅓	1,725	56	115/208-230V AC	6.6/3.3-3.1	1	B	11 ½ in	1 C,D / 2 E,F,G	056C17G15521	**1TUL9**
	1,140	56	115/208-230V AC	7.8/3.9-3.6	1	B	12 in	1 C,D / 2 E,F,G	056C11G15503	**1TUL2**
½	3,450	56	115/208-230V AC	8.4/4.2-4.0	1	B	11 ⅜ in	1 C,D / 2 E,F,G	056C34G15515	**1TUN5**
	1,725	56	115/208-230V AC	8.8/4.4-4.2	1	B	12 in	1 C,D / 2 E,F,G	056C17G15523	**1TUN1**
¾	3,450	56	115/208-230V AC	10.6/5.3-5.3	1	B	12 in	1 C,D / 2 E,F,G	056C34G15517	**1TUN6**
	1,725	56	115/208-230V AC	11.0/5.5-5.4	1	B	12 ½ in	1 C,D / 2 E,F,G	056C17G15525	**1TUN2**
1	1,725	56H	115/208-230V AC	13.4/6.8-6.7	1	B	12 ⅛ in	1 C,D / 2 E,F,G	056C17G15527	**1TUN3**
Rigid Base-Mount, Capacitor-Start/Run										
1½	1,725	56H	208-230V AC	8.1-7.8	1	B	14 ⅛ in	1 C,D / 2 E,F,G	056B17G15506	**1TUL6**
Rigid Base-Mount, Split-Phase										
¼	1,725	56	115V AC	5.4	1	B	10 in	1 C,D / 2 E,F,G	056S17E15501	**1TUP2** *
Face/Base-Mount, Capacitor-Start										
⅓	1,725	56C	115/208-230V AC	6.6/3.3-3.1	1	B	11 ⅜ in	1 C,D / 2 F,G	056C17G5324	**2NKY9**
½	1,725	56C	115/208-230V AC	8.8/4.4-4.2	1.15	F	11 ⅞ in	1 C,D / 2 F,G	056C17G5328	**2NKZ1**
¾	3,450	56C	115/208-230V AC	10.6/5.3-5.3	1	B	11 ⅞ in	1 C,D / 2 F,G	056C34G5314	**2NKZ2**
	1,725	56C	115/208-230V AC	11.0/5.5-5.4	1	B	12 ⅜ in	1 C,D / 2 F,G	056C17G5326	**2NKZ3**
1	1,725	56C	115/208-230V AC	13.4/6.8-6.7	1	B	12 ⅜ in	1 C,D / 2 F,G	056C17G5327	**2NKZ4**
Face-Mount, Capacitor-Start										
¼	1,140	56CZ	115/208-230V AC	6.8/3.4-3.1	1	B	11 ⅞ in	1 C,D / 2 E,F,G	056C11G15504	**1TUL4** ‡
⅓	1,725	56C	115/208-230V AC	6.6/3.3-3.1	1	B	11 ⅜ in	1 C,D / 2 E,F,G	056C17G15526	**1TUN8**
½	1,725	56C	115/208-230V AC	8.8/4.4-4.2	1	B	11 ⅞ in	1 C,D / 2 E,F,G	056C17G15524	**1TUN9**
¾	1,725	56C	115/208-230V AC	11.0/5.5-5.4	1	B	12 ⅜ in	1 C,D / 2 E,F,G	056C17G15530	**1TUP1**
1	1,725	56C	115/208-230V AC	13.4/6.8-6.7	1	B	12 ⅜ in	1 C,D / 2 E,F,G	056C17G15516	**1TUK8**
Face-Mount, Capacitor-Start/Run										
1½	1,725	56C	115/208-230V AC	15.6/8.1-7.8	1.15	B	14 ⅜ in	1 C,D / 2 F,G	056B17G15510	**2NLE6**

** Totally enclosed nonventilated. ‡ Shaft is ⅝" x 2¼".*

3-Phase Hazardous Location Motors

- Rotation: CW/CCW
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Conduit box included

Can be used to power fans, blowers, pumps, or air compressors in areas that meet the National Electrical Code for hazardous locations.

Note: For assistance with hazardous location classification, see page 6.

Face-Mount 56HZ62

Rigid Base-Mount 4YPT1

Rigid Base-Mount 1TUE5

HP	Name-plate RPM	Frame	Thermal Protection	Voltage	Hz	Full Load Amps	Service Factor	Ins. Class	Temp. Code	Nom. Efficiency	Haz. Loc. Class & Group	Brand	Mfr. Model	Item No.
Face/Base-Mount, Steel Frame, Totally Enclosed Fan-Cooled														
½	1,725	56C	Auto	230/460V AC	60/50	2.4/1.20	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15559	**1TUG7**
¾	1,725	56C	Auto	230/460V AC	60/50	3.0/1.50	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15545	**1TUG8**
1	1,725	56C	Auto	230/460V AC	60	3.2/1.60	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15612	**407M13**
1½	3,450	56C	Auto	230/460V AC	60	4.2-4.2/2.1	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T34G15567	**407M04**
	1,755	145TC	T-Stat	208-230/460V AC	60	4.7-4.6/2.3	1.15	F	T3B	93.6 %	1 C,D / 2 E,F,G	Marathon	145TTGR16037	**6KWF4**
2	1,760	145TC	T-Stat	208-230/460V AC	60	6.2-6.0/3.0	1.15	F	T3B	92.4 %	1 C,D / 2 E,F,G	Marathon	145TTGR16035	**6KWF3**
	1,725	56C	Auto	230/460V AC	60	6.0/3.0	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15610	**407M14**
Face-Mount, Cast Iron Frame, Totally Enclosed Fan-Cooled														
3	1,765	182TC	T-Stat	230/460V AC	60	8.0/4.0	1	F	T3B	90.2 %	1 D / 2 F,G	Marathon	182TTGCD4068	**5VYF3**
5	3,495	184TC	T-Stat	230/460V AC	60	12.4/6.2	1	F	T3B	88.5 %	1 D / 2 F,G	Marathon	184TTGCD16004	**52XR74**
	1,755	184TC	T-Stat	230/460V AC	60	12.4/6.2	1	B	T3B	90.2 %	1 D / 2 F,G	Marathon	184TTGCD16027	**52XR81**
10	1,765	215TC	T-Stat	230/460V AC	60	26.6/13.3	1	F	T3B	91.7 %	1 C,D / 2 F,G	Marathon	215TTGCD16029	**52XR83**
Face-Mount, Steel Frame, Totally Enclosed Fan-Cooled														
⅓	1,725	56C	Auto	208-230/460V AC	60/50	1.4-1.3/0.65	1.15	B	T3C	75.1 %	Class I, Group CD, Class II, Group EF & G	U.S. Motors	XS13SA2DCR	**56HZ62**
½	1,725	56C	Auto	230/460V AC	60/50	2.4/1.20	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15536	**1TUG1**
	1,725	56C	Auto	208-230/460V AC	60	2.4-2.3/1.20	1	B	T3B	68 %	1 C,D / 2 F,G	Marathon	056T17G5315	**19RW14**
¾	3,450	56C	Auto	208-230/460V AC	60	2.7-2.6/1.3	1.15	B	T3B	86.5 %	Class I, Group CD, Class II, Group EF & G	U.S. Motors	XS34S1ACR	**56HZ61**
	1,725	56C	Auto	230/460V AC	60/50	3.0/1.50	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15537	**1TUG2**
	1,725	56C	Auto	208-230/460V AC	60	3.0-2.9/1.50	1	B	T3B	75.5 %	1 C,D / 2 F,G	Marathon	056T17G5316	**19RW15**
1	1,725	56C	Auto	230/460V AC	60	3.2/1.60	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15607	**407M11**
	1,725	56C	Auto	230/460V AC	60	3.2/1.60	1	B	T3B	85.5 %	1 C,D / 2 F,G	Marathon	056T17G15599	**53DE23**
1½	1,725	56C	Auto	230/460V AC	60	4.8/2.4	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15609	**407M12**
Face-Mount, Steel Frame, Totally Enclosed Nonventilated														
¼	1,725	56C	Auto	208-230/460V AC	60	1.10-1.10/0.55	1	B	T3B	75 %	1 C,D / 2 F,G	Marathon	056T17E5310	**39P314**
⅓	1,725	56C	Auto	208-230/460V AC	60	1.20-1.20/0.60	1	B	T3B	74.5 %	1 C,D / 2 F,G	Marathon	056T17E5311	**19RW11**
Rigid Base-Mount, Cast Iron Frame, Totally Enclosed Fan-Cooled														
1	1,735	143TC	T-Stat	208-230/460V AC	60	3.0-3.0/1.50	1.15	F	T3B	85.5 %	1 D / 2 F,G	Marathon	143TTGN6551	**39P309**
1½	3,505	143T	None	230/460V AC	60	3.9/1.9	1.15	F	T3B	84 %	1 D / 2 F, G	U.S. Motors	X32P1B	**56JA35**
	1,760	145T	T-Stat	208-230/460V AC	60	4.1/2.00	1.15	F	T4	86.5 %	1 C,D / 2 F,G	Weg	00158XT3E145T	**4YPT1**
	1,755	145TC	T-Stat	230/460V AC	60	4.6/2.3	1.15	F	T3B	86.5 %	1 C,D / 2 F,G	Marathon	145TTGN6536	**39P310**
2	3,500	145T	None	230/460V AC	60	4.9/2.4	1	F	T3B	85.5 %	Class I, Group D, Class II, Group F & G	U.S. Motors	X2P1B	**56JA36**
	1,755	145TC	T-Stat	230/460V AC	60	6.0/3.0	1.15	F	T3B	86.5 %	1 D / 2 F,G	Marathon	145TTGN6549	**39P311**
	1,755	145T	T-Stat	230/460V AC	60	6.0/3.0	1.15	F	T3B	86.5 %	1 D / 2 F,G	Marathon	145TTGN6527	**39W943**
	1,750	145T	T-Stat	208-230/460V AC	60	5.5/2.7	1.15	F	T4	86.5 %	1 C,D / 2 F,G	Weg	00218XT3E145T	**4YPT4**
3	3,525	182T	T-Stat	230/460V AC	60	7.6/3.8	1.15	F	T3B	87.5 %	1 C,D / 2 F,G	Marathon	182TTGCD6501	**5VYF0**
	3,515	182T	T-Stat	208-230/460V AC	60	7.5/3.7	1.15	F	T4	86.5 %	1 C,D / 2 F,G	Weg	00336XT3E182T	**4YPT6**
	1,760	182T	T-Stat	208-230/460V AC	60	7.8/3.9	1.15	F	T4	89.5 %	1 C,D / 2 F,G	Weg	00318XT3E182T	**4YPT7**
5	3,505	184T	T-Stat	230/460V AC	60	11.8/5.9	1.15	F	T3B	88.5 %	1 D / 2 F,G	Marathon	184TTGCD6501	**5VYF5**
	3,505	184T	T-Stat	208-230/460V AC	60	12.2/6.1	1.15	F	T4	88.5 %	1 C,D / 2 F,G	Weg	00536XT3E184T	**4YPT9**
	1,755	184T	T-Stat	230/460V AC	60	12.4/6.2	1.15	F	T3B	90.2 %	1 C,D / 2 F,G	Marathon	184TTGCD6526	**5VYF4**
	1,755	184T	T-Stat	208-230/460V AC	60	13.1/6.5	1.15	F	T4	89.5 %	1 C,D / 2 F,G	Weg	00518XT3E184T	**4YPU1**
	1,170	215T	T-Stat	230/460V AC	60	13.8/6.9	1.15	F	T3B	89.5 %	1 D / 2 F,G	Marathon	215TTGND6576	**482R15**
7½	3,525	213T	T-Stat	230/460V AC	60	18.2/9.1	1.15	F	T3B	89.5 %	1 D / 2 F,G	Marathon	213TTGCD6501	**482P88**
	1,765	213T	T-Stat	208-230/460V AC	60	18.8/9.4	1.15	F	T4	91.7 %	1 C,D / 2 F,G	Weg	00718XT3E213T	**4YPU4**
10	1,765	215T	T-Stat	230/460V AC	60	26.6/13.3	1.15	F	T3B	91.7 %	1 C,D / 2 F,G	Marathon	215TTGCD6526	**454X77**
	1,765	215TC	T-Stat	230/460V AC	60	26.6/13.3	1.15	F	T3B	91.7 %	1 C,D / 2 F,G	Marathon	215TTGCD6528	**482R13**
	1,765	215T	T-Stat	208-230/460V AC	60	25.4/12.7	1.15	F	T4	91.7 %	1 C,D / 2 F,G	Weg	01018XT3E215T	**4YPU7**
15	3,550	254T	T-Stat	230/460V AC	60	35.0/17.5	1.15	F	T3B	91.7 %	1 C,D / 2 F,G	Marathon	254TTGCD6507	**6KWG6**
	1,775	254T	T-Stat	230/460V AC	60	37.5/18.8	1.15	F	T3B	92.4 %	1 C,D / 2 F,G	Marathon	254TTGCD6531	**5VYG6**
	1,770	254T	T-Stat	208-230/460V AC	60	36.8/18.4	1.15	F	T4	92.4 %	1 C,D / 2 F,G	Weg	01518XT3E254T	**4YPV1**
20	1,775	256T	T-Stat	230/460V AC	60	48.0/24.1	1.15	F	T3B	93 %	1 C,D / 2 F,G	Marathon	256TTGCD6526	**6KWG9**
	1,175	286T	T-Stat	230/460V AC	60	53.5/26.8	1.15	F	T3B	91.7 %	1 C,D / 2 F,G	Marathon	286TTGN16577	**5VYH1**
25	1,772	284T	T-Stat	230/460V AC	60	62.0/31.0	1.15	F	T3B	93.6 %	1 C,D / 2 F,G	Marathon	284TTGCD6533	**6KWH2**
40	3,545	324TS	T-Stat	230/460V AC	60	94.0/47.0	1.15	F	T3B	93.6 %	1 C,D / 2 F,G	Marathon	324TSTGS6501	**6KWH5**
	1,780	324T	T-Stat	230/460V AC	60	95.0/47.5	1.15	F	T3B	94.1 %	1 C,D / 2 F,G	Marathon	324TTGS6529	**6KWH6**
	1,185	364T	T-Stat	230/460V AC	60	100.0/50.0	1.15	F	T3B	94.1 %	1 C,D / 2 F,G	Marathon	364TTGS16577	**5VYJ1**
50	3,555	326TS	T-Stat	230/460V AC	60	118.0/59.0	1.15	F	T3B	94.5 %	1 C,D / 2 F,G	Marathon	326TSTGS6501	**5VYH7**
	1,777	326T	T-Stat	230/460V AC	60	123.0/61.5	1.15	F	T3B	94.5 %	1 C,D / 2 F,G	Marathon	326TTGS6532	**5VYH8**
Rigid Base-Mount, Steel Frame, Totally Enclosed Fan-Cooled														
⅓	1,140	56	Auto	208-230/460V AC	60	1.50-1.50/0.75	1.15	B	T3B	76.5 %	1 C,D / 2 E,F,G	Marathon	056T11G15515	**1TUD1**
½	1,725	56	Auto	208-230/460V AC	60/50	2.4-2.3/1.20	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15550	**1TUE5**
	1,725	56	Auto	208-230/460V AC	60	2.4-2.3/1.20	1	B	T3B	68 %	1 C,D / 2 F,G	Marathon	056T17G5312	**39X605**
	1,140	56	Auto	208-230/460V AC	60	2.7-2.4/1.30	1.15	B	T3B	82.5 %	1 C,D / 2 E,F,G	Marathon	056T11G15517	**1TUD3**
¾	1,725	56	Auto	230/460V AC	60/50	3.0/1.50	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15551	**1TUE6**
	1,725	56	Auto	208-230/460V AC	60	3.0-2.9/1.50	1	B	T3B	75.5 %	1 C,D / 2 F,G	Marathon	056T17G5313	**39X606**
1	1,765	143T	T-Stat	230/460V AC	60	3.3/1.70	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	143TTGR16026	**6KWE7**
	1,725	56H	Auto	208-230/460V AC	60	3.3-3.2/1.60	1	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15604	**407M09**
1½	1,725	56H	Auto	230/460V AC	60	4.8/2.4	1.15	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15606	**407M10**
2	1,760	145T	T-Stat	230/460V AC	60	6.0/3.0	1.15	F	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	145TTGR16040	**6KWF6**
	1,725	56H	Auto	230/460V AC	60	6.0/3.0	1.15	B	T3B	86.5 %	1 C,D / 2 E,F,G	Marathon	056T17G15608	**407M08**
Rigid Base-Mount, Steel Frame, Totally Enclosed Nonventilated														
¼	1,725	56	Auto	208-230/460V AC	60	1.10-1.10/0.55	1	B	T3B	75 %	1 C,D / 2 F,G	Marathon	056T17E5308	**39P313**
⅓	1,725	56	Auto	230/460V AC	60/50	1.20/0.60	1	B	T3B	85.5 %	1 C,D / 2 E,F,G	Marathon	056T17E15516	**1TUE4**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

For assistance with motor selection, see pages 3 to 7.

3-Phase NEMA Premium Efficient Cooling Tower Motors

WEG NEMA Premium

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: none
- Service factor: 1.25
- Insulation: Class F, with B temperature rise for longer life
- Inverter rated
- Mounting: rigid base
- Frame material: cast-iron
- Bearings: ball
- Max. ambient temp.: 40°C
- Usable at 208V
- Space heater included
- Warranty: 3 yr.

Durable synthetic enamel alkyd resin paint resists corrosion. V-ring slingers and umbrella seal on both endshields protect bearings from moisture and contaminants. Multiple endbell drains provide for shaft-up, -down, or -horizontal mounting. Include threaded conduit box with automatic drain and rubber lead separators at the motor frame. Stainless steel laser-etched nameplate maintains information over long life. Suitable for operation in 100% humidity and corrosive environments. For use in cooling tower applications where the motor is mounted in the airstream. Meet IP55 enclosure rating.

Note: Motors are suitable for use at 50 Hz at rated HP and 1.25 service factor.

F1 Conduit Box Position

F2 Conduit Box Position

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Nom. Efficiency	Overall Length	Mfr. Model	Item No.
F1 Conduit Box Position								
1	1,760	143T	230/460V AC	2.9/1.47	85.5 %	12 ⅜ in	00118ET3ECT143TF1-W2	**19C670**
1½	1,755	143/5T	200V AC	4.7	86.5 %	13 ⅜ in	00158ET3PCT145TF1-W2	**19C671**
	1,755	143/5T	230/460V AC	4.0/2.0	86.5 %	13 ⅜ in	00158ET3ECT145TF1-W2	**19C672**
2	1,755	143/5T	200V AC	6.4	86.5 %	13 ⅜ in	00218ET3PCT145TF1-W2	**19C673**
	1,755	143/5T	230/460V AC	5.5/2.8	86.5 %	13 ⅜ in	00218ET3ECT145TF1-W2	**19C674**
3	1,760	182T	200V AC	9.0	89.5 %	14 ⅞ in	00318ET3PCT182TF1-W2	**19C675**
	1,760	182T	230/460V AC	7.8/3.9	89.5 %	14 ⅞ in	00318ET3ECT182TF1-W2	**19C676**
5	1,755	182/4T	200V AC	14.8	89.5 %	15 ⅞ in	00518ET3PCT184TF1-W2	**19C677**
	1,755	182/4T	230/460V AC	12.9/6.45	89.5 %	15 ⅞ in	00518ET3ECT184TF1-W2	**19C678**
7½	1,765	213T	200V AC	21.1	91.7 %	18 in	00718ET3PCT213TF1-W2	**19C679**
	1,765	213T	230/460V AC	18.4/9.2	91.7 %	18 in	00718ET3ECT213TF1-W2	**19C680**
10	1,765	213/5T	200V AC	28.5	91.7 %	19 ½ in	01018ET3PCT215TF1-W2	**19C681**
	1,765	213/5T	230/460V AC	24.8/12.4	91.7 %	19 ½ in	01018ET3ECT215TF1-W2	**19C682**
	1,175	254/6T	230/460V AC	26.6/13.3	91 %	24 15/16 in	01012ET3ECT256TF1-W2	**19C683**
15	1,765	254T	200V AC	41.4	92.4 %	23 3/16 in	01518ET3PCT254TF1-W2	**19C684**
	1,765	254T	230/460V AC	36.0/18.0	92.4 %	23 3/16 in	01518ET3ECT254TF1-W2	**19C685**
20	1,765	254/6T	200V AC	55.4	93 %	24 15/16 in	02018ET3PCT256TF1-W2	**19C686**
	1,765	254/6T	230/460V AC	48.2/24.1	93 %	24 15/16 in	02018ET3ECT256TF1-W2	**19C687**
25	1,765	284T	200V AC	67.8	93.6 %	26 7/16 in	02518ET3PCT284TF1-W2	**19C688**
	1,765	284T	230/460V AC	59.0/29.5	93.6 %	26 7/16 in	02518ET3ECT284TF1-W2	**19C689**
30	1,765	284/6T	200V AC	80.7	93.6 %	27 15/16 in	03018ET3PCT286TF1-W2	**19C690**
	1,765	284/6T	230/460V AC	70.2/35.1	93.6 %	27 15/16 in	03018ET3ECT286TF1-W2	**19C691**
40	1,770	324T	200V AC	108.0	94.1 %	29 ⅝ in	04018ET3PCT324TF1-W2	**19C692**
	1,770	324T	230/460V AC	94.2/47.1	94.1 %	29 ⅝ in	04018ET3ECT324TF1-W2	**19C693**
F2 Conduit Box Position								
1	1,760	143T	230/460V AC	2.9/1.47	85.5 %	12 ⅜ in	00118ET3ECT143T-W22	**6EGP2**
	1,160	143/5T	230/460V AC	3.5/1.73	82.5 %	13 ⅜ in	00112ET3ECT145T-W22	**6EGP3**
1½	1,755	143/5T	230/460V AC	4.0/2.0	86.5 %	13 ⅜ in	00158ET3ECT145T-W22	**6EGP4**
	1,170	182T	230/460V AC	5.1/2.5	87.5 %	14 ⅞ in	00152ET3ECT182T-W22	**6EGP5**
2	1,755	143/5T	230/460V AC	5.5/2.8	86.5 %	13 ⅜ in	00218ET3ECT145T-W22	**6EGP6**
	1,170	182/4T	230/460V AC	6.4/3.2	88.5 %	15 ⅞ in	00212ET3ECT184T-W22	**6EGP7**
3	1,760	182T	230/460V AC	7.8/3.9	89.5 %	14 ⅞ in	00318ET3ECT182T-W22	**6EGP8**
	1,175	213T	230/460V AC	8.8/4.4	89.5 %	18 in	00312ET3ECT213T-W22	**6EGP9**
5	1,755	182/4T	200V AC	14.8	89.5 %	15 ⅞ in	00518ET3PCT184T-W22	**6EGR0**
	1,755	182/4T	230/460V AC	12.9/6.45	89.5 %	15 ⅞ in	00518ET3ECT184T-W22	**6EGR1**
	1,170	213/5T	200V AC	15.7	89.5 %	19 ½ in	00512ET3PCT215T-W22	**6EGR2**
	1,170	213/5T	230/460V AC	13.7/6.83	89.5 %	19 ½ in	00512ET3ECT215T-W22	**6EGR3**
7½	1,765	213T	200V AC	21.1	91.7 %	18 in	00718ET3PCT213T-W22	**6EGR4**
	1,765	213T	230/460V AC	18.4/9.2	91.7 %	18 in	00718ET3ECT213T-W22	**6EGR5**
	1,175	254T	200V AC	21.8	91 %	23 3/16 in	00712ET3PCT254T-W22	**6EGR6**
	1,175	254T	230/460V AC	19.0/9.5	91 %	23 3/16 in	00712ET3ECT254T-W22	**6EGR7**
10	1,765	213/5T	200V AC	28.5	91.7 %	19 ½ in	01018ET3PCT215T-W22	**6EGR8**
	1,765	213/5T	230/460V AC	24.8/12.4	91.7 %	19 ½ in	01018ET3ECT215T-W22	**6EGR9**
	1,175	254/6T	200V AC	30.6	91 %	24 15/16 in	01012ET3PCT256T-W22	**6EGT0**
	1,175	254/6T	230/460V AC	26.6/13.3	91 %	24 15/16 in	01012ET3ECT256T-W22	**6EGT1**
15	1,765	254T	200V AC	41.4	92.4 %	23 3/16 in	01518ET3PCT254T-W22	**6EGT2**
	1,765	254T	230/460V AC	36.0/18.0	92.4 %	23 3/16 in	01518ET3ECT254T-W22	**6EGT3**
	1,175	284T	200V AC	41.2	91.7 %	26 7/16 in	01512ET3PCT284T-W22	**6EGT4**
	1,175	284T	230/460V AC	35.8/17.9	91.7 %	26 7/16 in	01512ET3ECT284T-W22	**6EGT5**
20	1,765	254/6T	200V AC	55.4	93 %	24 15/16 in	02018ET3PCT256T-W22	**6EGT6**
	1,765	254/6T	230/460V AC	48.2/24.1	93 %	24 15/16 in	02018ET3ECT256T-W22	**6EGT7**
	1,175	284/6T	200V AC	55.7	91.7 %	27 15/16 in	02012ET3PCT286T-W22	**6EGT8**
	1,175	284/6T	230/460V AC	48.4/24.2	91.7 %	27 15/16 in	02012ET3ECT286T-W22	**6EGT9**
25	1,765	284T	200V AC	67.8	93.6 %	26 7/16 in	02518ET3PCT284T-W22	**6EGU0**
	1,765	284T	230/460V AC	59.0/29.5	93.6 %	26 7/16 in	02518ET3ECT284T-W22	**6EGU1**
	1,180	324T	200V AC	70.8	93 %	29 ⅝ in	02512ET3PCT324T-W22	**6EGU2**
	1,180	324T	230/460V AC	61.6/30.8	93 %	29 ⅝ in	02512ET3ECT324T-W22	**6EGU3**
30	1,765	284/6T	200V AC	80.7	93.6 %	27 15/16 in	03018ET3PCT286T-W22	**6EGU4**
	1,765	284/6T	230/460V AC	70.2/35.1	93.6 %	27 15/16 in	03018ET3ECT286T-W22	**6EGU5**
	1,180	324/6T	200V AC	83.3	93 %	31 ⅛ in	03012ET3PCT326T-W22	**6EGU6**
	1,180	324/6T	230/460V AC	72.4/36.2	93 %	31 ⅛ in	03012ET3ECT326T-W22	**6EGU7**
40	1,770	324T	230/460V AC	94.2/47.1	94.1 %	29 ⅝ in	04018ET3ECT324T-W22	**6EGU8**
	1,185	364/5T	230/460V AC	93.0/46.5	94.1 %	34 ¼ in	04012ET3ECT364T-W22	**6EGU9**
50	1,775	324/6T	230/460V AC	118.0/59.2	94.5 %	31 ⅛ in	05018ET3ECT326T-W22	**6EGV0**
	1,180	364/5T	230/460V AC	115.0/57.4	94.1 %	34 ¼ in	05012ET3ECT365T-W22	**6EGV1**
60	1,780	364/5T	230/460V AC	143.0/71.6	95 %	34 ¼ in	06018ET3ECT364T-W22	**6EGV2**
	1,185	404/5T	230/460V AC	139.0/69.5	94.5 %	39 ¾ in	06012ET3ECT404T-W22	**6EGV3**
75	1,780	364/5T	230/460V AC	174.0/87.2	95.4 %	34 ¼ in	07518ET3ECT365T-W22	**6EGV4**
	1,184	404/5T	230/460V AC	170/84.9	94.5 %	39 ¾ in	07512ET3ECT405T-W22	**6EGV5**
100	1,780	404/5T	230/460V AC	226.0/113.0	95.4 %	39 ¾ in	10018ET3ECT405T-W22	**6EGV6**
	1,185	444/5T	230/460V AC	242.0/121.0	95 %	44 15/16 in	10012ET3ECT444T-W22	**6EGV7**

Dayton

1- and 3-Phase Stainless Steel Washdown Motors

- Rotation: CW/CCW
- Thermal protection: none, except 12V772 and 12V775 are auto
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C

Feature exterior components of 300 Series stainless steel for maximum corrosion resistance in severe-duty and washdown environments. Motors are well-sealed against moisture and condensation to protect internal components, and exteriors are completely paint- and coating-free. Heavy polyester insulating varnish applied to the windings for extra moisture and corrosion resistance. Moisture-resistant sealant between frame and endbells. Double-sealed oversized bearings with rust-inhibitive grease. Shaft-end bearing is locked internally to limit axial endplay. 4 drains in each endshield allow drainage of condensation in any mounting position. 1-phase models are built to comply with NEMA MG1-1.26.6. All motors are for use in the food processing, chemical processing, and beverage industries.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Item No.
Single-Phase, Capacitor-Start/Run										
Totally Enclosed Fan-Cooled, Face-Mount										
¾	1,745	56C	115/208-230V AC	7.6/4.0-3.8	1.15	78 %	⅝ in	1 ⅞ in	13 ⅛ in	**11G244**
1	1,745	56C	115/208-230V AC	11.2 /5.8-5.6	1.15	66 %	⅝ in	1 ⅞ in	13 ⅝ in	**11G245**
1 ½	1,745	56C	115/208-230V AC	14.8/7.6-7.4	1.15	81 %	⅝ in	1 ⅞ in	14 ⅜ in	**11G246**
2	3,450	56C	208-230V AC	8.9-7.4	1.15	83 %	⅝ in	1 ⅞ in	14 ⅜ in	**11G247**
	1,745	56C	208-230V AC	9.9-8.5	1	80 %	⅝ in	1 ⅞ in	14 ⅞ in	**11G248**
Totally Enclosed Fan-Cooled, Face/Base-Mount										
½	1,745	56HC	115/208-230V AC	5.0/2.6-2.5	1.15	77.3 %	⅝ in	1 ⅞ in	13 ⅛ in	**11G252**
¾	1,745	56HC	115/208-230V AC	7.6/4.0-3.8	1.15	78 %	⅝ in	1 ⅞ in	13 ⅛ in	**11G253**
1	1,745	56HC	115/208-230V AC	11.2 /5.8-5.6	1.15	66 %	⅝ in	1 ⅞ in	13 ⅝ in	**11G254**
1 ½	1,745	56HC	115/208-230V AC	14.8/7.6-7.4	1.15	81 %	⅝ in	1 ⅞ in	14 ⅜ in	**11G255**
2	3,450	56HC	208-230V AC	8.9-7.9	1.15	83 %	⅝ in	1 ⅞ in	14 ⅜ in	**11G256**
	1,745	56HC	208-230V AC	9.9-8.5	1	80 %	⅝ in	1 ⅞ in	14 ⅞ in	**11G257**
Totally Enclosed Air-Over, Yoke-Mount										
¼	1,075	48YZ	115V AC	3.5	1	55.3 %	½ in	4 1⁄16 in	11 9⁄16 in	**12V772**
½	1,075	48YZ	115V AC	5.8	1	63.3 %	⅝ in	4 1⁄16 in	12 9⁄16 in	**12V775**
Three-Phase, Inverter Duty, 10:1 Variable and 6:1 Constant Torque										
Totally Enclosed Nonventilated, Face-Mount										
½	1,745	56C	208-230/460V AC	1.80-1.60/0.80	1.15	82.5 %	⅝ in	1 ⅞ in	9 ¾ in	**6WY53**
	1,155	56C	208-230/460V AC	1.90-1.80/0.90	1.15	80 %	⅝ in	1 ⅞ in	9 ¾ in	**6WY51**
¾	1,745	56C	208-230/460V AC	2.3-2.2/1.10	1.15	82.5 %	⅝ in	1 ⅞ in	9 ¾ in	**6WY55**
	1,155	56C	208-230/460V AC	3.8-3.7/1.85	1.15	80 %	⅝ in	1 ⅞ in	11 5⁄16 in	**6WY54**
1	1,740	56C	230/460V AC	3.0/1.50	1.15	85.5 %	⅝ in	1 ⅞ in	11 5⁄16 in	**6WY57**
Totally Enclosed Nonventilated, Face/Base-Mount										
⅓	3,500	56C	208-230/460V AC	1.20-1.10/0.55	1.15	74 %	⅝ in	1 ⅞ in	9 ⅜ in	**6WY29**
	1,745	56C	208-230/460V AC	1.40-1.20/0.60	1.15	82.5 %	⅝ in	1 ⅞ in	9 ⅞ in	**6WY28**
½	3,460	56C	208-230/460V AC	1.60-1.50/0.75	1.15	77 %	⅝ in	1 ⅞ in	9 ⅜ in	**6WY32**
	1,745	56C	208-230/460V AC	1.80-1.60/0.80	1.15	82.5 %	⅝ in	1 ⅞ in	9 ⅞ in	**6WY31**
	1,155	56C	208-230/460V AC	1.90-1.80/0.90	1.15	80 %	⅝ in	1 ⅞ in	9 ⅞ in	**6WY30**
¾	3,500	56C	208-230/460V AC	2.3-2.2/1.10	1.15	80 %	⅝ in	1 ⅞ in	9 ⅜ in	**6WY35**
	1,745	56C	208-230/460V AC	2.3-2.2/1.10	1.15	82.5 %	⅝ in	1 ⅞ in	9 ⅞ in	**6WY34**
	1,155	56HC	208-230/460V AC	3.8-3.7/1.85	1.15	80 %	⅝ in	1 ⅞ in	11 7⁄16 in	**6WY33**
1	1,740	56HC	230/460V AC	3.0/1.50	1.15	85.5 %	⅝ in	1 ⅞ in	11 7⁄16 in	**6WY38**
Three-Phase, Inverter Duty, 10:1 Variable and 3:1 Constant Torque										
Totally Enclosed Fan-Cooled, Face-Mount										
1	1,750	143TC	230/460V AC	2.9/1.45	1.15	85.5 %	⅞ in	2 ¼ in	13 ¼ in	**6WY58**
	1,165	56C	230/460V AC	4.0/2.00	1.15	82.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY56**
1 ½	1,750	145TC	230/460V AC	4.6/2.3	1.15	86.5 %	⅞ in	2 ¼ in	13 ¼ in	**6WY60**
	1,750	56C	230/460V AC	4.0/2.00	1.15	86.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY59**
2	1,750	145TC	230/460V AC	6.0/3.0	1.15	86.5 %	⅞ in	2 ¼ in	13 ¼ in	**6WY61**
	1,750	56C	230/460V AC	6.0/3.0	1.15	86.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY62**
Totally Enclosed Fan-Cooled, Face/Base-Mount										
1	3,470	56HC	230/460V AC	2.8/1.40	1.15	77 %	⅝ in	1 ⅞ in	11 ⅝ in	**6WY40**
	1,750	143TC	230/460V AC	3.0/1.50	1.15	85.5 %	⅞ in	2 ¼ in	13 13⁄16 in	**4GPR9**
	1,165	145TC	230/460V AC	4.0/2.00	1.15	82.5 %	⅞ in	2 ¼ in	12 9⁄16 in	**4GPT1**
	1,165	56HC	230/460V AC	4.0/2.00	1.15	82.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY36**
1 ½	3,480	56HC	230/460V AC	4.0/2.00	1.15	84 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY44**
	1,750	145TC	230/460V AC	4.0/2.00	1.15	86.5 %	⅞ in	2 ¼ in	12 9⁄16 in	**4GPT2**
	1,750	56HC	230/460V AC	4.0/2.00	1.15	86.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY42**
2	3,480	145TC	230/460V AC	4.8/2.4	1.15	85.5 %	⅞ in	2 ¼ in	13 13⁄16 in	**4GPT3**
	3,480	56HC	230/460V AC	4.8/2.4	1.15	85.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY48**
	1,750	145TC	230/460V AC	6.0/3.0	1.15	86.5 %	⅞ in	2 ¼ in	13 13⁄16 in	**4GPT4**
	1,750	56HC	230/460V AC	6.0/3.0	1.15	86.5 %	⅝ in	1 ⅞ in	13 ¼ in	**6WY46**
Three-Phase, Inverter Duty, 10:1 Variable and 4:1 Constant Torque										
Totally Enclosed Fan-Cooled, Face/Base-Mount										
3	3,510	182TC	230/460V AC	8.1/4.05	1.15	86.5 %	1 ⅛ in	2 ¾ in	16 15⁄16 in	**2RKY6**
	1,765	182TC	230/460V AC	8.0/4.0	1.15	89.5 %	1 ⅛ in	2 ¾ in	16 15⁄16 in	**2RKY5**
5	3,525	184TC	230/460V AC	12.2/6.1	1.15	88.5 %	1 ⅛ in	2 ¾ in	16 15⁄16 in	**2RKY8**
	1,765	184TC	230/460V AC	12.5/6.3	1.15	89.5 %	1 ⅛ in	2 ¾ in	16 15⁄16 in	**2RKY7**
7 ½	1,755	213TC	230/460V AC	18.6/9.3	1.15	91.7 %	1 ⅜ in	3 ⅜ in	21 ½ in	**2RKY9**
10	3,525	215TC	230/460V AC	24.4/12.2	1.15	90.2 %	1 ⅜ in	3 ⅜ in	22 5⁄16 in	**2RKZ3**
	1,760	215TC	230/460V AC	24.4/12.2	1.15	91.7 %	1 ⅜ in	3 ⅜ in	22 5⁄16 in	**2RKZ2**
15	3,540	254TC	230/460V AC	37.0/18.5	1.15	91 %	1 ⅝ in	4 in	23 ¾ in	**2RKZ5**
20	3,540	256TC	230/460V AC	46.0/23.0	1.15	91 %	1 ⅝ in	4 in	22 5⁄16 in	**2RKZ7**

Face-Mount

Face/Base-Mount

Yoke-Mount

marathon™ Motors

3-Phase Wet Environment/Car Wash Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Insulation: Class F
- Mounting: face
- Bearings: ball
- Max. ambient temp.: 40°C

Use when frequent high-pressure washdown is required. Motors feature 303 stainless steel shafts with contact lip seal and V-ring slinger.

HP	Nameplate RPM	Frame	Motor Thermal Protection	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Overall Length	Item No.
¾	1,725	56C	Auto	230/460V AC	3.0/1.50	1.15	77 %	⅝ in	2 1⁄16 in	11 11⁄16 in	**5XB84**
1	1,760	56C	None	230/460V AC	3.2/1.60	1.15	85.5 %	⅝ in	2 1⁄16 in	12 ⅞ in	**53DE48**

5XB84

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Scan. Order. Done.
Details on page A1.

Yoke-Mount

Face-Mount

Face/Base-Mount

Dayton · US Motors · marathon Motors

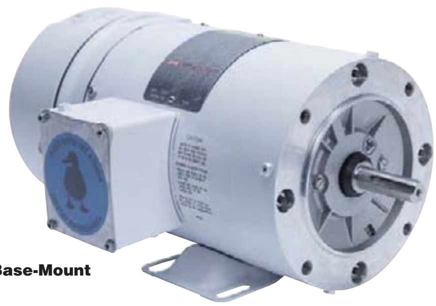
1-Phase Painted Washdown Motors

- Rotation: CW/CCW
- Thermal protection: auto on PSC motors; none on capacitor-start
- Insulation: Class F
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Built to comply with NEMA standard MG1-1.26.6 for washdown motors. 303 stainless steel shaft. V-ring rotating seal. Double-sealed, oversize bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. White epoxy finish for superior resistance to caustic cleaning solutions. For high humidity/wet environments and areas where motor is occasionally exposed to high-pressure washdowns. USDA Approved paint finish.

HP	Nameplate RPM	Frame	Enclosure	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Brand	Item No.
Permanent Split Capacitor, Yoke-Mount												
¼	1,700	56YZ	TEAO	115/230V AC	3.5/1.70	1	57.6 %	½ in	3 in	7 ⅞ in	Dayton	**5M063**
⅓	1,700	56YZ	TEAO	115/230V AC	4.9/2.5	1	60.8 %	½ in	3 in	7 ⅞ in	Dayton	**5M062**
½	1,700	56YZ	TEAO	115/230V AC	5.9/2.9	1	68.7 %	⅝ in	3 in	7 ⅞ in	Dayton	**5M061**
Capacitor-Start, Face-Mount												
½	1,725	56C	TEFC	115/208-230V AC	8.8/4.1-4.4	1.15	66 %	⅝ in	1 ⅞ in	9 ¼ in	Marathon	**1TUR5**
¾	3,450	56C	TEFC	115/208-230V AC	10.0/5.2-5.0	1.15	64 %	⅝ in	1 ⅞ in	9 ¼ in	Marathon	**1TUR2**
1	1,725	56C	TEFC	115/208-230V AC	12.8/6.6-6.4	1.15	75 %	⅝ in	1 ⅞ in	10 ¼ in	Marathon	**1TUR6**
Capacitor-Start, Face/Base-Mount												
½	3,600	56C	TENV	115/208-230V AC	7.3/3.9-3.7	1.15	77.6 %	⅝ in	2 1/16 in	9 11/16 in	U.S. Motors	**55ML69**
	1,725	56C	TEFC	115/208-230V AC	8.8/4.4	1.15	66 %	⅝ in	1 ⅞ in	9 ¼ in	Marathon	**1TUP4**
¾	1,725	56C	TEFC	115/208-230V AC	10.8/5.4	1.15	70 %	⅝ in	1 ⅞ in	9 ¾ in	Marathon	**1TUP5**
1	1,725	56HC	TEFC	115/208-230V AC	12.8/6.4	1.15	75 %	⅝ in	1 ⅞ in	10 ¼ in	Marathon	**1TUP6**
Capacitor-Start/Run, Face/Base-Mount												
1 ½	1,740	56HC	TEFC	115/208-230V AC	14.8/7.8-7.4	1.15	80 %	⅝ in	1 ⅞ in	11 ¼ in	Marathon	**1TUP7**
2	1,740	56HC	TEFC	115/208-230V AC	20.0/10.2-10.0	1.15	80 %	⅝ in	1 ⅞ in	11 ¾ in	Marathon	**1TUP8**

Face-Mount



Face/Base-Mount

LEESON

3-Phase Painted Washdown Brake Motors

- Rotation: CW/CCW
- Service factor: 1.15
- Insulation: Class F
- Bearings: ball
- Max ambient temp.: 40°C
- Duty: continuous

Built to comply with NEMA standard MG1-1.26.6 for washdown motors. Features 303 stainless steel shaft and V-ring rotating seal. Double sealed, oversized bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. White epoxy finish resists caustic cleaning solutions. For use in high humidity, wet environments or where motor is occasionally exposed to high-pressure washdowns. Brake motors are suitable for use in drives for conveyors, food packaging and processing equipment. USDA Approved paint finish.

HP	Nameplate RPM	Frame	Enclosure	Voltage	Full Load Amps	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Includes	Item No.
Face-Mount											
½	1,725	56C	TENV	208-230/460V AC	1.80	78.5 %	⅝ in	1 ⅞ in	12 9/16 in	3 ft.-lb. Brake	**48ZF17**
¾	1,725	56C	TENV	208-230/460V AC	1.20	80 %	⅝ in	1 ⅞ in	13 1/16 in	6 ft.-lb. Brake	**48ZF18**
1	1,750	143TC	TENV	208-230/460V AC	1.30	85.5 %	⅞ in	2 ¼ in	15 3/16 in	6 ft.-lb. Brake	**48ZF19**
	1,750	56C	TENV	208-230/460V AC	3.0-2.8/1.40	85.5 %	⅝ in	1 ⅞ in	15 7/16 in	6 ft.-lb. Brake	**48ZF20**
1 ½	1,750	145TC	TEFC	208-230/460V AC	2.4	86.5 %	⅞ in	2 ¼ in	16 ½ in	10 ft.-lb. Brake	**48ZF21**
2	1,745	145TC	TEFC	208-230/460V AC	2.00	86.5 %	⅞ in	2 in	17 in	10 ft.-lb. Brake	**48ZF22**
Face/Base-Mount											
⅓	1,725	56C	TENV	208-230/460V AC	0.65	72 %	⅝ in	1 ⅞ in	12 1/16 in	3 ft.-lb. Brake	**48ZF09**
¾	1,725	56C	TENV	208-230/460V AC	1.20	80 %	⅝ in	1 ⅞ in	13 1/16 in	6 ft.-lb. Brake	**48ZF11**
1	1,750	143TC	TENV	208-230/460V AC	1.30	85.5 %	⅞ in	2 ¼ in	15 in	6 ft.-lb. Brake	**48ZF12**
	1,750	56HC	TENV	208-230/460V AC	3.0-2.8/1.40	85.5 %	⅝ in	1 ⅞ in	15 7/16 in	6 ft.-lb. Brake	**48ZF13**
1 ½	1,750	145TC	TEFC	208-230/460V AC	2.4	86.5 %	⅞ in	2 ¼ in	16 ½ in	10 ft.-lb. Brake	**48ZF14**
2	1,745	145TC	TEFC	208-230/460V AC	2.00	86.5 %	⅞ in	2 in	17 in	10 ft.-lb. Brake	**48ZF15**

Dayton NEMA Premium

3-Phase Painted Washdown Motors

- Rotation: CW/CCW
- Thermal protection: none
- Insulation: Class F
- Inverter rated
- Bearings: ball
- Max. ambient temp.: 40°C

NEMA premium efficient motors built as washdown motors. Copper windings are cured in protective polyester compound. 303 stainless steel shaft. V-ring rotating seal. Double-sealed, oversize bearings and spring-loaded contact seals in each endshield are lubricated with moisture-resistant grease. Conduit boxes have drains to shed excess moisture. Bearing cavities are packed to help keep moisture out. White epoxy finish provides superior resistance to caustic cleaning solutions. For high humidity/wet environments and areas where motor is occasionally exposed to high-pressure washdowns. USDA Approved paint finish.

2DAK7
Rigid Base-Mount

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Nom. Efficiency	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
Totally Enclosed Fan-Cooled, Face/Base-Mount											
2	3,505	145TC	230/460V AC	4.9/2.4	1.15	86.5 %	⅞ in	2 ⅛ in	11 13⁄16 in	**5XAT3**	*
	1,750	145TC	230/460V AC	5.7/2.8	1.15	86.5 %	⅞ in	2 ⅛ in	12 ⅝ in	**5XAT4**	*
3	3,535	182TC	230/460V AC	7.4/3.7	1.15	88.5 %	1 ⅛ in	2 ⅝ in	16 3⁄64 in	**5XAT7**	
	1,765	182TC	230/460V AC	7.6/3.8	1.15	89.5 %	1 ⅛ in	2 ⅝ in	14 ⅛ in	**5XAU0**	*
5	1,755	184TC	230/460V AC	12.5/6.2	1.15	89.5 %	1 ⅛ in	2 ⅝ in	14 ⅛ in	**5XAU1**	
7½	1,765	213TC	230/460V AC	18.2/9.1	1.15	91.7 %	1 ⅜ in	3 ⅛ in	16 ¼ in	**5XAV0**	*
10	1,760	215TC	230/460V AC	24.0/12.0	1.15	91.7 %	1 ⅜ in	3 ⅛ in	17 ¼ in	**5XAV1**	*
Totally Enclosed Fan-Cooled, Face-Mount											
3	1,765	182TC	230/460V AC	7.6/3.8	1.15	89.5 %	1 ⅛ in	2 ⅝ in	14 ⅛ in	**5XAU5**	*
5	3,525	184TC	230/460V AC	12.0/6.0	1.15	89.5 %	1 ⅛ in	2 ⅝ in	14 ⅛ in	**5XAU6**	*
	1,755	184TC	230/460V AC	12.5/6.2	1.15	89.5 %	1 ⅛ in	2 ⅝ in	14 ⅛ in	**5XAU7**	*
7½	3,520	213TC	230/460V AC	17.4/8.7	1.15	91 %	1 ⅜ in	3 ⅛ in	18 ¼ in	**5XAU9**	*
	1,765	213TC	230/460V AC	18.2/9.1	1.15	91.7 %	1 ⅜ in	3 ⅛ in	16 ¼ in	**2DAM7**	
10	3,515	215TC	230/460V AC	23.1/11.6	1.15	91 %	1 ⅜ in	3 ⅛ in	18 ¼ in	**2DAM8**	
	1,760	215TC	230/460V AC	23.9/11.9	1.15	91.7 %	1 ⅜ in	3 ⅛ in	17 ¼ in	**2DAM9**	
15	3,540	215TC	230/460V AC	35.0/17.4	1.15	93 %	1 ⅜ in	3 ⅛ in	19 ¼ in	**2DAN1**	
Totally Enclosed Fan-Cooled, Rigid Base-Mount											
½	1,750	56	230/460V AC	1.60/0.80	1.15	78.5 %	⅝ in	1 ⅞ in	11 ½ in	**2DAK7**	
¾	1,745	56	230/460V AC	2.3/1.20	1.15	81.5 %	⅝ in	1 ⅞ in	11 ½ in	**2DAK8**	
1	1,750	143T	230/460V AC	3.0/1.50	1.15	85.5 %	⅞ in	2 ⅜ in	11 ½ in	**5XAT8**	*
1½	1,755	145T	230/460V AC	4.3/2.1	1.15	86.5 %	⅞ in	2 5⁄16 in	12 in	**5XAT9**	*
2	1,750	145T	230/460V AC	5.7/2.8	1.15	86.5 %	⅞ in	2 ⅜ in	12 in	**5XAT5**	*
3	1,765	182T	230/460V AC	7.6/3.8	1.15	89.5 %	1 ⅛ in	3 in	12 ¾ in	**5XAU2**	*
5	3,525	184T	230/460V AC	12.1/6.1	1.15	89.5 %	1 ⅛ in	3 in	12 ¾ in	**5XAU3**	*
	1,755	184T	230/460V AC	12.5/6.2	1.15	89.5 %	1 ⅛ in	3 in	12 ¾ in	**5XAU4**	*
7½	3,520	213T	230/460V AC	17.4/8.7	1.15	91 %	1 ⅜ in	3 ⅝ in	16 ⅝ in	**5XAU8**	*
	1,765	213T	230/460V AC	18.2/9.1	1.15	91.7 %	1 ⅜ in	3 ⅝ in	14 ⅝ in	**5XAV2**	*
10	1,760	215T	230/460V AC	24.0/12.0	1.15	91.7 %	1 ⅜ in	3 ⅜ in	15 ⅝ in	**5XAV3**	*
Totally Enclosed Nonventilated, Face/Base-Mount											
½	3,550	56C	230/460V AC	1.40/0.70	1.15	82.5 %	⅝ in	2 in	9 11⁄16 in	**1TRZ7**	
	1,750	56C	230/460V AC	1.60/0.80	1.15	80 %	⅝ in	2 in	9 ¼ in	**1TRZ3**	
¾	3,500	56C	230/460V AC	2.00/1.00	1.15	80 %	⅝ in	2 in	9 ¼ in	**1TRZ8**	
	1,745	56C	230/460V AC	2.3/1.20	1.15	81.5 %	⅝ in	2 in	9 ¼ in	**1TRZ4**	
1	3,520	56C	230/460V AC	2.5/1.30	1.15	85.5 %	⅝ in	2 in	9 11⁄16 in	**1TRZ9**	
	1,750	143TC	230/460V AC	3.0/1.50	1.15	85.5 %	⅞ in	2 ⅛ in	10 3⁄16 in	**1TRZ2**	
	1,750	56C	230/460V AC	3.0/1.50	1.15	85.5 %	⅝ in	2 in	10 ¼ in	**1TRZ6**	
1½	3,505	56HC	230/460V AC	3.6/1.80	1.15	86.5 %	⅝ in	2 in	10 ¾ in	**1TTA1**	
	1,750	145TC	230/460V AC	4.3/2.1	1.15	86.5 %	⅞ in	2 ⅛ in	10 11⁄16 in	**1TRZ1**	
	1,750	56HC	230/460V AC	4.3/2.1	1	86.5 %	⅝ in	2 in	10 11⁄16 in	**1TRZ5**	
Totally Enclosed Nonventilated, Face-Mount											
⅓	1,765	56C	230/460V AC	1.50/0.70	1.15	74 %	⅝ in	2 in	8 11⁄16 in	**1TTB1**	
½	1,750	56C	230/460V AC	1.60/0.80	1.15	80 %	⅝ in	2 in	9 3⁄16 in	**1TTB6**	
¾	3,500	56C	230/460V AC	2.00/1.00	1.15	80 %	⅝ in	2 in	9 3⁄16 in	**1TTA3**	
	1,745	56C	230/460V AC	2.3/1.20	1.15	82.5 %	⅝ in	2 in	9 3⁄16 in	**1TTB5**	
1	1,750	56C	230/460V AC	3.1/1.50	1.15	85.5 %	⅝ in	1 ⅞ in	10 3⁄16 in	**48ZJ94**	
	1,750	143TC	230/460V AC	3.0/1.50	1.15	85.5 %	⅞ in	2 ⅛ in	10 3⁄16 in	**1TTB7**	
1½	1,750	145TC	230/460V AC	4.3/2.1	1	86.5 %	⅞ in	2 ⅛ in	10 11⁄16 in	**1TTB8**	
Totally Enclosed Nonventilated, Rigid Base-Mount											
½	1,750	56	230/460V AC	1.60/0.80	1.15	78.5 %	⅝ in	1 ⅞ in	8 ⅞ in	**1TTC3**	
¾	1,745	56	230/460V AC	2.3/1.20	1.15	81.5 %	⅝ in	1 ⅞ in	8 ⅞ in	**1TTC2**	
1	1,750	56	230/460V AC	3.0/1.50	1.15	85.5 %	⅝ in	1 ⅞ in	9 ⅞ in	**1TTC1**	

** 50/60 Hz.*

1TRZ6
Face/Base-
Mount

48ZJ94
Face-Mount

Dayton

90 and 180VDC Painted Washdown Motors

- Enclosure: totally enclosed fan-cooled
- Service factor: 1.0
- Insulation: Class H
- Bearings: ball
- Max ambient temp.: 40°C
- Duty: continuous

Designed for use with speed controls or NEMA Type K DC power supplies on constant or diminishing torque applications. Motors feature externally replaceable brushes and removable bases. Suitable for use in drives for conveyors, food packaging and processing machinery where high humidity and wet environments exist, or where washdown procedures are used.

• Replacement brushes available on Grainger.com

HP	Nameplate RPM	Frame	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
90V DC Permanent Magnet DC, Face/Base-Mount							
¼	1,750	56C	2.5	⅝ in	1 ⅞ in	8 ⅞ in	**1F654**
⅓	1,750	56C	3.5	⅝ in	1 ⅞ in	9 ⅜ in	**1F652**
½	1,750	56C	5.0	⅝ in	1 ⅞ in	9 ⅞ in	**1F650**
¾	1,750	56C	7.6	⅝ in	1 ⅞ in	11 ⅞ in	**1F646**
1	1,750	56C	10.0	⅝ in	1 ⅞ in	12 ⅞ in	**1F642**
180V DC Permanent Magnet DC, Face/Base-Mount							
½	1,750	56C	3.5	⅝ in	1 ⅞ in	9 ⅞ in	**1F648**
¾	1,750	56C	3.8	⅝ in	1 ⅞ in	11 ⅞ in	**1F644**
1	1,750	56C	5.0	⅝ in	1 ⅞ in	12 ⅞ in	**1F640**

1F654

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Scan. Order. Done.
Details on page A1.

Rigid Base

Face/Base with Removable Base

Dayton

High-Torque and Extra-High-Torque Farm-Duty Motors

- Enclosure: totally enclosed fan-cooled
- Rotation: CW/CCW
- Thermal protection: manual
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Motor shaft design: keyed

Features include gasketed conduit box and a capacitor cover; a rubber boot over the manual protector reset button seals the motor against weather and contaminants. Oversized conduit boxes make connections easier. Shaft slinger included. For use with conveyors, silo unloaders, barn cleaners, compressors, and manure pumps. Extra-High-Torque motors have up to 400% starting torque for extremely hard-starting applications and can start under full-load conditions.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Ins. Class	Shaft Dia.	Shaft Length	Item No.
High-Torque									
Rigid Base Mounting, Capacitor-Start/Run									
1½	1,725	143/5T	115/230V AC	16.2/8.1	1.15	B	⅞ in	2 ¼ in	**6K311**
2	1,725	56HZ	115/230V AC	20.0/10.0	1	F	⅞ in	2 ¼ in	**4K090**
3	1,740	184T	230V AC	14.5	1	F	1 ⅛ in	2 ¾ in	**6K610**
5	1,730	213T	230V AC	23.0	1	F	1 ⅜ in	3 ½ in	**6K130**
	1,740	182/4T	230V AC	22.0	1	F	1 ⅛ in	2 ¾ in	**6K847**
7½	1,740	215T	230V AC	30.0	1	F	1 ⅜ in	3 ½ in	**6K969**
10	1,730	215T	230V AC	38.0	1	F	1 ⅜ in	3 ½ in	**6K970**
Rigid Base Mounting, Capacitor-Start									
⅓	1,725	56	115/230V AC	6.6/3.3	1.15	B	⅝ in	1 ⅞ in	**6K710**
½	1,725	56	115/230V AC	9.0/4.5	1.15	F	⅝ in	1 ⅞ in	**6K714**
¾	1,725	56	115/230V AC	11.4/5.7	1.15	B	⅝ in	1 ⅞ in	**6K719**
1	1,725	56H	115/230V AC	14.0/7.0	1.15	F	⅝ in	1 ⅞ in	**6K727**
1½	1,725	56H	115/230V AC	16.2/8.1	1.15	B	⅝ in	1 ⅞ in	**6K740**
2	1,740	182T	115/230V AC	23.6/11.8	1	F	1 ⅛ in	2 ¾ in	**6K313**
Face/Base Mounting, Capacitor-Start									
⅓	1,725	56C	115/230V AC	6.6/3.3	1.15	B	⅝ in	1 ⅞ in	**1TMW3**
½	1,725	56C	115/230V AC	9.0/4.5	1.15	B	⅝ in	1 ⅞ in	**1TMW5**
¾	1,725	56C	115/230V AC	11.4/5.7	1.15	B	⅝ in	1 ⅞ in	**1TMW7**
1	1,725	56HC	115/230V AC	14.0/7.0	1.15	F	⅝ in	1 ⅞ in	**1TMW9**
1½	1,725	56HC	115/230V AC	14.4/7.2	1.15	B	⅝ in	1 ⅞ in	**1TMX2**
2	1,725	145TC	115/230V AC	18.9/9.4	1.15	F	⅞ in	2 ⅛ in	**1TMW2**
Extra-High-Torque									
Rigid Base Mounting, Capacitor-Start/Run									
1½	1,725	143/5T	115/230V AC	19.2/10.1	1.15	F	⅞ in	2 ¼ in	**6K886**
2	1,750	182TZ	115/230V AC	25.6/12.8	1.15	F	⅞ in	2 ¾ in	**6K887**
3	1,760	184T	230V AC	17.0	1.15	F	1 ⅛ in	2 ¾ in	**6K881**
5	1,740	184T	230V AC	24.0	1.15	F	1 ⅛ in	2 ¾ in	**6K882**
10	1,735	215T	230V AC	41.0	1.15	F	1 ⅜ in	3 ⅜ in	**6K885**
Rigid Base Mounting, Capacitor-Start									
1	1,725	143/5T	115/230V AC	15.0/7.5	1.15	F	⅞ in	2 ¼ in	**6K994**
5	1,725	215TZ	230V AC	29.0	1.15	F	1 ⅛ in	3 ⅜ in	**6K883**
7½	1,715	215TZ	230V AC	30.8	1.15	F	1 ⅛ in	3 ⅜ in	**6K884**

48ZJ99

General Purpose Farm-Duty Motors

Dayton

- Rotation: CW/CCW
- Mounting: rigid base
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Motor shaft design: keyed

Gasketed conduit box and shaft slinger provide added protection against moisture, dust, and dirt. Use for driving augers, air compressors, conveyors, pumps, and other farm equipment where 3-phase power is available.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Shaft Dia.	Shaft Length	Item No.
3-Phase, Totally Enclosed Fan-Cooled										
⅓	1,765	56	None	208-230/460V AC	1.30-1.30/0.60	1.25	F	⅝ in	1 ⅞ in	**1EJR3**
½	1,765	56	None	208-230/460V AC	2.1-1.90/1.00	1.25	F	⅝ in	1 ⅞ in	**1EJR4**
¾	1,745	56	None	208-230/460V AC	2.4-2.4/1.20	1.25	F	⅝ in	1 ⅞ in	**1EJR5**
1	1,755	143-5T/56HZT	None	230/460V AC	3.0/1.50	1.25	F	⅞ in	2 ⅜ in	**35Z916**
1½	1,745	56	Manual	208-230/460V AC	4.5-4.5/2.2	1.15	F	⅝ in	1 ⅞ in	**48ZJ99**
	1,755	143-5T/56HZT	None	230/460V AC	4.3/2.1	1.25	F	⅞ in	2 ⅜ in	**35Z917**
2	1,750	143-5T/56HZ	None	230/460V AC	5.7/2.8	1.25	F	⅞ in	2 ¼ in	**35Z918**
3	1,765	182T	None	230/460V AC	7.8/3.9	1.15	F	1 ⅛ in	2 ¾ in	**35Z919**
5	1,755	184T	None	230/460V AC	12.5/6.2	1.15	F	1 ⅛ in	2 ¾ in	**35Z920**
7½	1,765	213T	None	230/460V AC	18.1/19.1	1.15	F	1 ⅜ in	3 ½ in	**35Z921**
10	1,760	215T	None	230/460V AC	24.0/12.0	1.15	F	1 ⅜ in	3 ½ in	**35Z922**

5K043

3K995

60WC96

marathon Motors · Dayton · LEESON

1-Phase Auger Farm-Duty AC Motors

- Rotation: CW/CCW
- Thermal protection: manual
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C

Guard on rotary switch protects against high-speed back-drive condition. Mounting flange assembles directly to gearbox on auger-drive systems. Capacitor-start models have shaft extensions beyond fan guard for hand cranking. Suitable as a replacement for Chore-Time, Cumberland, GSI, and other new and replacement OEM equipment.

HP	Nameplate RPM	Frame	Voltage	Hz	Full Load Amps	Service Factor	Mounting	Motor Shaft Design	Shaft Dia.	Brand	Mfr. Model	Item No.
Split-Phase, Totally Enclosed Nonventilated												
⅓	1,725	48NY	115/230V AC	60	5.3/2.7	1	Face	Keyed	⅝ in	Marathon	5KH39QN9508Y	**60WD45**
	1,725	56YZ	115/230V AC	60/50	5.2/2.6	1	Face	Flat	½ in	Dayton	—	**3K994**
	1,725	56YZ	115/230V AC	60/50	5.2/2.6	1	Face/Base	Flat	½ in	Dayton	—	**5K043**
Capacitor-Start, Totally Enclosed Fan-Cooled												
½	1,725	48Y	115/208-230V AC	60	8.0/4.4-4.0	1.15	Face	Flat	½ in	Leeson	101120.00	**60WC97**
	1,725	56YZ	115/230V AC	60/50	8.0/4.0	1	Face	Flat	½ in	Dayton	—	**3K995**
	1,725	56YZ	115/230V AC	60/50	8.0/4.0	1	Face/Base	Flat	½ in	Dayton	—	**5K044**
¾	1,725	56YZ	115/230V AC	60/50	10.6/5.3	1	Face	Flat	½ in	Dayton	—	**3K996**
	1,725	56YZ	115/230V AC	60/50	10.6/5.3	1	Face/Base	Flat	½ in	Dayton	—	**5K046**
1	1,725	56C	115/208-230V AC	60/50	13.4/6.8-6.7	1.15	Rigid Base	Keyed	⅝ in	Marathon	056C17F5914	**21YZ48**
	1,725	56Y	115/230V AC	60	12.8/6.4	1.15	Face/Base	Keyed	⅝ in	Dayton	—	**4K997**
1½	1,725	56Y	115/230V AC	60	16.2/8.1	1.15	Face/Base	Keyed	⅝ in	Dayton	—	**4K998**
Capacitor-Start/Run, Totally Enclosed Fan-Cooled												
¾	1,725	48Y	115/208-230V AC	60	10.8/5.3-5.4	1	Face	Keyed	½ in	Leeson	101119.00	**60WC98**
⅓	1,725	48Y	115/230V AC	60	6.2/3.1	1	Face	Keyed	½ in	Leeson	101159.00	**60WC96**
1½	1,725	56NZ	115/230V AC	60	15.2/7.6	1	Face	Keyed	⅝ in	Marathon	056B17F15516	**60WD60**

Dayton® marathon™ Motors

Poultry/Livestock Direct-Drive Farm-Duty AC Fan Motors

- Max ambient temp.: 40°C

Motors feature shaft slinger. For fan duty only. Direct replacements for Acme, Aerotech, Dayton®, GSI, LB White, and other direct-drive poultry fans. PSC and Capacitor Start/Run motors also have gasketed capacitor covers.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Service Factor	Ins. Class	Mounting	Motor Shaft Design	Shaft Dia.	Shaft Length	Brand	Item No.
Split-Phase, Totally Enclosed Air-Over													
½	1,140	48	CW	115/230V AC	5.6/2.8	1	B	Face	Double-Flat	⅝ in	2 11⁄16 in	Dayton	**42CW10**
	1,725	56	CW/CCW	115/208-230V AC	8.0/4.0-4.0	1	B	Cradle Base	Keyed	⅝ in	1 ⅞ in	Marathon	**33L620**
1	825	56	CW	115/208-230V AC	11.0/5.8-5.5	1	B	Face	Double-Flat	⅝ in	2 11⁄16 in	Dayton	**42CW08**
Split-Phase, Totally Enclosed Nonventilated													
⅙	1,140	48	CW/CCW	115V AC	3.7	1	B	Cradle Base	Flat	½ in	1 ½ in	Marathon	**33L615**
¼	1,140	56	CW/CCW	115V AC	5.6	1	B	Cradle Base	Keyed	⅝ in	1 ⅞ in	Marathon	**33L617**
⅓	1,725	48Z	CW/CCW	115V AC	6.2	1.35	B	Cradle Base	Flat	½ in	2 ¼ in	Marathon	**33L618**
Permanent Split Capacitor, Totally Enclosed Air-Over													
¼	1,700	48YZ	CW/CCW	115/230V AC	3.3/1.70	1	B	Cradle Base	Double-Flat	½ in	2 7⁄16 in	Dayton	**1YAZ4** *
	1,725	48YZ	CW/CCW	115/230V AC	2.3/1.40	1	B	Yoke	Double-Flat	½ in	2 7⁄16 in	Dayton	**1YAZ7** *
⅓	1,100	48Y	CW/CCW	115/230V AC	3.9/1.90	1	B	Stud	Double-Flat	½ in	2 ½ in	Dayton	**1YBA5**
	1,100	48Y	CW/CCW	115/230V AC	3.9/1.90	1	B	Rigid Base	Double-Flat	½ in	3 ¾ in	Dayton	**1YBA4**
	1,700	48YZ	CW/CCW	115/230V AC	3.8/1.90	1	B	Cradle Base	Double-Flat	½ in	2 ½ in	Dayton	**1YAZ5** *
	1,725	48YZ	CW/CCW	115/230V AC	3.8/1.90	1	B	Yoke	Double-Flat	½ in	2 7⁄16 in	Dayton	**1YAZ8** *
½	850	48YZ	CW/CCW	115/230V AC	6.0/3.0	1.25	B	Stud	Keyed	⅝ in	3 ⅜ in	Dayton	**1YAZ3**
	850	56Z	CW/CCW	115/230V AC	6.0/3.0	1	B	Rigid Base	Keyed	⅝ in	2 ½ in	Dayton	**1YBA6**
	1,700	48YZ	CW/CCW	115/230V AC	5.0/2.5	1	B	Cradle Base	Double-Flat	½ in	2 ½ in	Dayton	**1YAZ6** *
	1,700	48YZ	CW/CCW	115/230V AC	5.5/2.8	1	F	Yoke	Double-Flat	½ in	2 ½ in	Dayton	**1YAZ9** *
1	850	56CZ	CW	230V AC	5.8	1	B	Face	Keyed	⅝ in	2 ½ in	Dayton	**1YBA7**
	850	56CZ	CW	230V AC	5.2	1	B	Face	Keyed	¾ in	3 ¼ in	Dayton	**1YBA1**
Permanent Split Capacitor, Totally Enclosed Nonventilated													
¼	1,625	48Z	CW/CCW	115/230V AC	3.6/1.80	1	B	Cradle Base	Flat	½ in	2 ½ in	Marathon	**33L616**
½	850	56Y	CCW	208-230V AC	3.7/3.6	1	B	Face	Keyed	⅝ in	1 ⅞ in	Marathon	**33L622**
	1,075	48Z	CW/CCW	115/230V AC	7.2/3.6	1	B	Cradle Base	Flat	½ in	2 ½ in	Marathon	**33L621**
Capacitor-Start/Run, Totally Enclosed Nonventilated													
¾	1,725	56	CW/CCW	115/208-230V AC	7/3.8-3.5	1.3	B	Cradle Base	Keyed	⅝ in	1 ⅞ in	Marathon	**33L623**
1	1,725	56	CW/CCW	115/208-230V AC	10.6/5.5-5.3	1.3	B	Cradle Base	Keyed	⅝ in	1 ⅞ in	Marathon	**33L624**
1 ½	1,725	56	CW/CCW	115/208-230V AC	14.0/7.2-7.0	1.3	B	Cradle Base	Keyed	⅝ in	1 ⅞ in	Marathon	**33L625**
3-Phase, Totally Enclosed Air-Over													
1	825	56	CW	208-230/460V AC	4.8-4.6/2.3	1	B	Face	Double-Flat	⅝ in	2 11⁄16 in	Dayton	**42CW09**
	850	56CZ	CW/CCW	460V AC	2.00-1.90	1	B	Face	Keyed	¾ in	3 ¼ in	Dayton	**1YAZ2**

** Adjustable speed: Designed to operate from 100% down to 80% speed with optional speed controllers, see page 159.*
For use with fans only; not intended for mechanical applications.

Permanent Split Capacitor 1YAZ4

Capacitor Start/Run 33L623

3-Phase 1YAZ2

Dayton® marathon™ Motors Century®

Poultry/Livestock Belt-Drive Farm-Duty AC Fan Motors

- Phase: Single
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Max. ambient temp.: 40°C

Motors have higher service factors and breakdown torque for the most-demanding applications. Feature shaft slinger, gasketed capacitor, and conduit box cover for added protection against dirt and moisture. Motors also have double-sealed bearings, condensation drain holes, and cooler-running windings to promote longer service life. For use in Dayton®, Aerotech, American Coolair, Chore Time, Acme, Hired Hand, and other air-over belt drive livestock ventilation fans.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Mounting	Motor Shaft Design	Brand	Mfr. Model	Item No.
Split-Phase, Totally Enclosed Air-Over										
⅓	1,725	56	115/230V AC	5.5/2.7	1.25	Rigid Base	Keyed	Dayton	—	**1YBU8**
½	1,725	56	115/208-230V AC	4.8/2.4	1.3	Cradle Base	Keyed	Century	PD1050AV1	**3RCW8**
	1,725	56	115/230V AC	7.6/3.8	1.25	Rigid Base	Keyed	Dayton	—	**1YBV8**
	1,725	56	115/230V AC	7.6/3.8	1.25	Cradle Base	Keyed	Dayton	—	**1YBV9**
	1,725	56	115/230V AC	7.6/3.8	1.25	Cradle Base	Keyed	Dayton	—	**1YBW1** *
¾	1,725	56	115/230V AC	11.5/5.7	1.25	Rigid Base	Keyed	Dayton	—	**1YBU9**
1	1,725	56	115/230V AC	13.0/6.5	1.25	Rigid Base	Keyed	Dayton	—	**1YBV1**
Split-Phase Start/Capacitor-Run, Totally Enclosed Air-Over										
⅓	1,725	48	115/208-230V AC	4.1/2.1-2.00	1	Cradle Base	Flat	Marathon	5KHC39QN9581T	**2K348** *
Split-Phase Start/Capacitor-Run, Totally Enclosed Nonventilated										
¼	1,725	48	115/208-230V AC	3.0/1.60-1.50	1	Cradle Base	Flat	Marathon	5KHC39QN9575T	**2K349** *
Capacitor-Start/Run, Totally Enclosed Air-Over										
½	1,725	56	115/208-230V AC	4.6/2.6-2.4	1.4	Cradle Base	Keyed	Dayton	—	**5JKW9**
¾	1,725	56	115/208-230V AC	6.1/3.4-3.1	1.3	Cradle Base	Keyed	Dayton	—	**4WNZ5**
	1,725	56	115/208-230V AC	6.1/3.4-3.1	1.3	Rigid Base	Keyed	Dayton	—	**4WNZ6**
1	1,725	56	115/230V AC	9.0/4.5	1.3	Cradle Base	Keyed	Century	PD6104AV2	**3RCW9**
	1,725	56	115/230V AC	9.0/4.5	1.3	Rigid Base	Keyed	Century	PD6104AV3	**3RCX1**
	1,725	56H	115/230V AC	7.9/4.0	1.15	Rigid Base	Keyed	Dayton	—	**3K993**
	1,725	56H	115/230V AC	7.9/4.0	1.15	Cradle Base	Keyed	Dayton	—	**4K124**
	1,725	56H	115/208-230V AC	9.8/5.2-4.9	1.4	Cradle Base	Keyed	Dayton	—	**5JKX2**

** Includes 3⅝" x 3⅝" extended thru-bolts for fan guard mounting.*

Capacitor-Start/Run, Cradle Base 5JKW9

Split-Phase, Cradle Base 1YBV9

Aeration Farm-Duty AC Fan Motors

Dayton®

- Rotation: CW/CCW
- Service factor: 1.0
- Insulation: Class B
- Mounting: rigid base
- Max. ambient temp.: 50°C

Use as a replacement motor for tubeaxial fan grain aeration systems made by Aero-Vent, Dynavent, Farm Fan, and other manufacturers. Permanent split capacitor motors have keyed shaft that is drilled on center 1"D, and tapped ¼-20 UNC to allow fan mounting.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Shaft Design	Shaft Dia.	Shaft Length	Item No.
Capacitor-Start, Totally Enclosed Air-Over								
½	3,450	48	115/230V AC	8.0/4.0	Flat	½ in	1 ½ in	**4K055**
	3,450	56Z	115/230V AC	7.4/3.7	Keyed	⅝ in	2 ¼ in	**4K056**
¾	3,450	48	115/230V AC	11.0/5.5	Flat	½ in	1 ½ in	**4K057**
	3,450	56Z	115/230V AC	11.0/5.5	Keyed	⅝ in	2 ¼ in	**4K058**
1	3,450	56Z	115/230V AC	12.4/6.2	Keyed	⅝ in	2 ¼ in	**4K059**
1 ½	3,450	143TZ	115/230V AC	17.4/8.7	Keyed	⅞ in	2 ¼ in	**4K060**
2	3,450	143TZ	115/230V AC	22.2/11.1	Keyed	⅞ in	2 ¼ in	**4K061**
3	3,450	145TZ	230V AC	14.9	Keyed	⅞ in	2 ¼ in	**4K062**

4K055

4K059

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

54JF83 45YU16 13L299

1-Phase Air Compressor Motors

- Enclosure: open dripproof
- Mounting: rigid base
- Bearings: ball
- Max. ambient temp.: 40°C

Direct replacements for selected air compressors including Dayton, Speedaire, Ingersoll-Rand, Campbell Hausfeld, Sanborn, Champion, Coleman, Quincy, and others. Designed to meet the high-torque requirements of air compressor loads. Mechanical features provide long life in high-tension, belt-type loads, which typically shorten motor life. High breakdown torque ensures dependable service. Suitable for intermittent-duty, portable, and stationary air compressors.

Note: Use on other applications voids warranty.

HP	Nameplate RPM	Frame	Rotation	Thermal Protection	Voltage	Full Load Amps	Service Factor	Ins. Class	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
Commercial Duty Air Compressor AC Motors													
Capacitor-Start													
½	3,450	56	CW/CCW	Manual	115/208-230V AC	6.2/3.4-3.1	1	F	⅝ in	1 ⅞ in	Weg	13470996	**54JF83**
	3,600	56	CCWSE	Manual	115V AC	11.5	1	B	⅝ in	1 ⅞ in	Leeson	5KC49MN2043Y	**61KN08**
¾	1,725	56	CW/CCW	Manual	115/208-230V AC	11.0/5.5	1.25	B	⅝ in	1 ⅞ in	Leeson	056B17D56	**61KN10**
	3,450	56	CCWSE	Manual	115V AC	12.5	1	B	⅝ in	1 ⅞ in	Leeson	5KC49MN2049Y	**61KN09**
	3,470	56	CW/CCW	Manual	115/208-230V AC	9.14/4.7-4.57	1	F	⅝ in	1 ⅞ in	Weg	13444696	**54JF84**
1	1,725	56	CW/CCW	Manual	115/230V AC	13.6/6.8	1.15	B	⅝ in	1 ⅞ in	Marathon	5KC49PN0161U	**39L530**
	3,485	56	CW/CCW	Manual	115/208-230V AC	13.2/6.6-6.5	1	F	⅝ in	1 ⅞ in	Weg	13488375	**54JF85**
1½	1,725	56H	CW/CCW	Manual	115/208-230V AC	18.0/9.3-9.0	1.15	B	⅝ in	1 ⅞ in	Leeson	056C17D5308	**61KN12**
	3,450	56	CW/CCW	Manual	115/230V AC	20.0/10.0	1	B	⅝ in	1 ⅞ in	Leeson	110161.00	**61KN11**
	3,490	56	CW/CCW	Manual	115/208-230V AC	17.4/8.8-8.7	1	F	⅝ in	1 ⅞ in	Weg	13589373	**54JF86**
2	1,740	145T	CW/CCW	Manual	115/208-230V AC	18.8/10.2-9.4	1.15	B	⅞ in	2 ¼ in	Leeson	145TBDR5337	**61KN13**
3	3,450	56	CCWSE	Manual	230V AC	14	1	B	⅝ in	1 ⅞ in	Leeson	5KCR48UN2653Y	**61KN14**
5	3,600	56	CW/CCW	Manual	208-230V AC	15.0-15.0	1	F	⅝ in	1 ⅞ in	Leeson	116523.00	**61KN15**
	3,600	56H	CCWSE	Manual	230V AC	19.6	1	F	⅝ in	1 ⅞ in	Leeson	5KCR49ZN2722Y	**61KN16**
6	3,600	R56Y	CCWSE	Manual	230V AC	24.0	1	F	⅞ in	2 ¼ in	Leeson	B387	**61KN20**
Capacitor-Start/Run													
1	3,450	56	CW/CCW	Manual	115/208-230V AC	10.6/5.5-5.3	1.15	B	⅝ in	1 ⅞ in	Marathon	056B34D2029	**39L529**
2	3,450	56	CW/CCW	Manual	115/230V AC	17.0/8.5	1	B	⅝ in	1 ⅞ in	Marathon	5KCR48TN2650Y	**3K787**
	3,480	56H	CW/CCW	Manual	115/208-230V AC	17.8/9.5-8.9	1	F	⅝ in	1 ⅞ in	Weg	13470997	**54JF87**
3	1,765	184T	CW/CCW	Manual	230V AC	18.6-17.5	1.15	F	1 ⅛ in	2 ¾ in	Dayton	45YU15	**45YU15**
	3,480	56H	CW/CCW	Manual	208-230V AC	13.0-12.7	1	F	⅝ in	1 ⅞ in	Weg	12882732	**54JF88**
4	3,480	56HZ	CCWSE	Manual	230V AC	16.8	1	F	⅞ in	2 ¼ in	Weg	00436OS1DCDG56HZ	**13L296**
5	1,725	184T	CW/CCW	Manual	230V AC	27.5-21.5	1.15	F	1 ⅛ in	2 ¾ in	Dayton	45YU16	**45YU16**
	1,750	184T	CW/CCW	None	208-230V AC	23.0-20.7	1.25	F	1 ⅛ in	2 ¾ in	Weg	00518OS1CCD184T	**13L299**
	1,750	184T	CW/CCW	Manual	208-230V AC	23.0-20.7	1.15	F	1 ⅛ in	2 ¾ in	Weg	00518OS1CCDOL184T	**13L301**
6⅜	3,450	182/4	CCWSE	Manual	230V AC	23.0	1	F	⅞ in	2 ¼ in	Weg	00636OS1XCD182/4Y	**13L302**
7½	1,760	213/5T	CCWSE	None	208-230V AC	33.8-32.2	1.15	F	1 ⅜ in	3 ⅜ in	Weg	00718OS1CCD215T	**13L303**
	3,495	184T	CW/CCW	Manual	230V AC	33.4-30.0	1.15	F	1 ⅛ in	2 ¾ in	Dayton	45YU17	**45YU17**
10	1,720	215T	CCWSE	None	208-230V AC	44.2-40.0	1.15	F	1 ⅜ in	3 ⅜ in	Weg	01018OS1CCD215T	**13L304**
Light Duty Air Compressor AC Motors													
Capacitor-Start													
5	3,450	56H	CW/CCW	Manual	230V AC	20.0	1.15	B	⅝ in	1 ⅞ in	Leeson	056B34D5302	**61KN17**
	3,600	Y56HZ	CCWSE	Manual	230V AC	22.0	1	B	⅞ in	2 ¼ in	Leeson	B813	**61KN18**
	3,600	R56Y	CCWSE	Manual	208-230V AC	22.0	1.15	B	⅞ in	2 ¼ in	Leeson	B384	**61KN19**
Capacitor-Start/Run													
5	3,440	56H	CW/CCW	Manual	230V AC	20.3	1	F	⅝ in	1 ⅞ in	Weg	12882730	**54JF89**
	3,440	56HZ	CW/CCW	Manual	230V AC	20.3	1	F	⅞ in	2 ¼ in	Weg	13521268	**54JF90**

2M145

2M066

Universal AC/DC Motors

- Enclosure: open dripproof
- 115VAC at 60 Hz
- Insulation: Class A, except 2M139 is Class F
- Max. ambient temp.: 40°C

Lightweight, compact, and use AC or DC power to operate portable power tools such as drills, sanders, routers, circular saws, and jig saws. They can operate at extremely high speeds with a high starting torque. Full-load speeds can be adjusted 20% to 100% with proper speed control (sold separately).

HP	Nameplate RPM	Motor Shaft Rotation	Voltage	Full Load Amps	O.C. Mounting	Mounting Holes	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Brand	Item No.	
Face Mount														
⅕	10,000	CCWSE	115V AC	2.9	2 7/16 in	—	Sleeve	3 ⅜ in	5/16 in	1 in	4 ½ in	Dayton	**2M139**	*
1	10,000	CCWSE	115V AC	12.1	3 ¼ x 3 ¼ in	(4) #10-32	Ball	3 ⅞ in	7/16 in	1 ¼ in	9 ⅝ in	Dayton	**2M191**	
Hole Mount														
1/15	5,000	CCWSE	115V AC	1.2	2 3/16 in	(2) #10-32	Ball	2 ¾ in	5/16 in	⅞ in	4 7/16 in	Dayton	**2M057**	*
	5,000	CCWSE	115V AC	1.2	2 3/16 in	(2) #10-32	Sleeve	2 ¾ in	¼ in	¾ in	4 7/16 in	Dayton	**2M033**	*
	5,000	CWSE	115V AC	1.2	2 3/16 in	(2) #10-32	Sleeve	2 ¾ in	¼ in	¾ in	4 7/16 in	Dayton	**2M034**	*
	5,000	CCWSE	115V AC	1.2	2 3/16 in	(2) #10-32	Sleeve	2 ¾ in	¼ in	¾ in	4 7/16 in	Dayton	**2M277**	*
⅒	8,000	CCWSE	115V AC	1.5	2 3/16 in	(2) #10-32	Ball	2 ¾ in	¼ in	⅞ in	4 7/16 in	Dayton	**2M037**	*
¼	19,500	CCWSE	115V AC	—	2 ¼ in	(2) #8-32	Ball	2 7/16 in	5/16 in	1 3/16 in	3 ½ in	Ametek Lamb	**3GXF6**	
	20,000	CCWSE	115V AC	—	2 ¼ in	(2) #8-32	Ball	2 7/16 in	5/16 in	⅞ in	3 ½ in	Ametek Lamb	**3EAK4**	
½	10,000	CCWSE	115V AC	6.3	2 x 2 13/16 in	(4) #10-32	Ball	3 ¾ in	⅜ in	1 ¼ in	6 3/16 in	Dayton	**2M145**	
Rigid Base Mount														
1/15	5,000	CCWSE	115V AC	1.2	2 3/16 x 3 in	4	Sleeve	2 ¾ in	¼ in	1 in	4 7/16 in	Dayton	**2M066**	*†

** Can be used with 5JJ60 speed control on page 156 . † Dual shaft.*

5FTT3

3.3"-Dia. Shaded-Pole Vibrator Motor

- Mounting: face
- Max. ambient temp.: 40°C

Low starting torque provides a smooth and quiet start up and promotes material flow in bins, chute hoppers, or pipes and can be used to cause materials to release from the walls of a container. Equipped with 9-ft. 3-cond. cordset and inline On/Off switch. Bracket mounting holes are ⅞" x 3" O.C.; includes bolt and nut to secure to motor.

HP	Force	Nameplate RPM	Motor Enclosure Design	Thermal Protection	Velocity	Voltage	Full Load Amps	Ins. Class	Bearings	Body Dia.	Item No.
1/200	2.5 lbf	1,550	Totally Enclosed Air-Over	Auto	1.33 in/sec	115V AC	0.50	B	Ball	3 ⅜ in	**2PUX4**
1/100	5 lbf	1,625	Open	Auto	2.2 in/sec	115V AC	0.65	B	Ball	3 ⅜ in	**5FTT3**
1/100	8 lbf	2,900	Open	Auto	7 in/sec	115V AC	0.48	B	Ball	3 ⅜ in	**10C903**

Vacuum Motors

AMETEK LAMB ELECTRIC · Dayton

- Enclosure: open
- Thermal protection: None, except where noted
- Mounting: all-position
- Bearings: ball, permanently lubricated
- Max. ambient temp.: 40°C, except 413W26 is 50°C
- Duty: intermittent
- Avg. brush life (Ametek only): 4.3" and 5.7" dia., 500 hr. (except 413W26 is 800 hr.); 7.2" dia., 700 hr.; 7.5" dia., 1000 hr.; 8.4" dia., 1500 hr.

For use in moving clean and dry air. Motor should not come into contact with foam, liquids, or moisture-laden air. Use with applications that protect the motor's electrical components, fan system, and housing. Units with air-sealed bearings provide added protection against dirt and moisture. Units with thermoset mounting brackets are for light-duty applications. For use in commercial canister or utility vacuums, sprayer/foggers, material handling and transfer systems, and car wash and central vacuum systems.

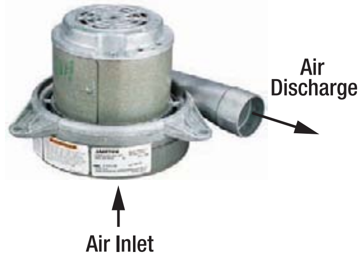
Note: Additional sizes available on Grainger.com®.

Body Dia.	Voltage	Blower Stages	CFM @ 2" Orifice	Vacuum (H_2O Sealed)	Max. Air Watts	Max. Amps	Overall Height	Replacement Brushes	Inlet Tube Dia.	Brand	Mfr. Model	Item No.
Peripheral Bypass Discharge												
Thermoset Mounting Brackets												
5.7 in	120V AC	1	95	50.1	188	4 A	5 1/16 in	152F62	—	Ametek	116325-00	**2M428**
	120V AC	1	110	45.0	140	6.2 A	5 in	34DA21	2 in	Dayton	32ZN72	**32ZN72**
	120V AC	1	115	50.0	195	8.2 A	5 3/8 in	34DA21	2 in	Dayton	32ZN73	**32ZN73**
	120V AC	1	133	49.5	291	4.9 A	5 3/16 in	152F62	—	Ametek	116196-00	**4M960**
	120V AC	2	94	84.3	274	5.4 A	6 5/16 in	2UV81	—	Ametek	116336-01	**2M429**
	120V AC	2	94	84.3	274	5.4 A	6 5/16 in	2UY15	—	Ametek	119414-00	**3GXE9**
	120V AC	2	96	88.1	292	5.2 A	6 5/16 in	2UV81	—	Ametek	115757-P	**2M265**
	120V AC	2	105.4	90.3	318	5.6 A	6 5/16 in	152F62	—	Ametek	116493-50	**4M949**
	120V AC	2	104.6	93.2	353	6.3 A	6 15/16 in	152F62	—	Ametek	116448-00	**4M955**
	120V AC	2	106.8	91.3	322	6 A	6 5/8 in	2UV81	—	Ametek	116212-00	**4M954**
	120V AC	2	112	106.7	404	6.9 A	7 in	41RD41	—	Ametek	116471-13	**4M953** *
	240V AC	1	102.1	50.8	227	2.6 A	5 1/8 in	152F63	—	Ametek	116271-00	**4M957**
	240V AC	2	110.5	95.4	349	3 A	7 in	152F63	—	Ametek	116036-13	**4M952** *
	240V AC	2	128.7	97.8	391	4 A	7 in	152F63	—	Ametek	116354-00	**4M951**
Metal Mounting Brackets												
7.2 in	120V AC	2	115.7	110.0	399	8.8 A	6 3/16 in	2XB23	—	Ametek	115330	**2M173**
	120V AC	2	113.9	106.1	376	8.9 A	6 13/16 in	2XB23	—	Ametek	115962	**2M187** *
	120V AC	3	105	131.4	447	10 A	7 13/16 in	2XB23	—	Ametek	116118-00	**4M891** *
7.5 in	120V AC	3	126.4	88.2	359	7.3 A	9 7/16 in	2UV67	—	Ametek	114787	**2M179**
	240V AC	3	122	84.2	354	3.2 A	9 7/16 in	2UV76	—	Ametek	114789	**4M877**
Acustek® (Low Noise), Thermoset Mounting Brackets												
5.7 in	120V AC	2	97	84.9	255	5 A	6 ½ in	152F62	—	Ametek	116757-13	**2M266** *
	120V AC	2	97	84.9	255	5 A	6 ½ in	152F62	—	Ametek	116024-13	**4M917** *
	120V AC	2	103	91.5	293	5.6 A	6 ½ in	152F62	—	Ametek	116025-13	**4M916** *
	120V AC	2	103	91.5	293	5.6 A	6 ½ in	2UV81	—	Ametek	116758-13	**2M267** *
	120V AC	2	110	107.1	387	7 A	6 15/16 in	41RD41	—	Ametek	116763-13	**2M433** *
	120V AC	3	100	119.6	382	6.8 A	7 13/16 in	41RD41	—	Ametek	116764-13	**4M914** *
	240V AC	2	110.5	95.2	349	3 A	7 in	152F63	—	Ametek	116296-13	**4M915** *
Tangential Bypass Discharge												
Thermoset Mounting Brackets												
5.7 in	36V DC	3	76	74.0	185	17.9 A	5 25/32 in	2UV71	1 7/8 in	Ametek	116513-13	**4M918** *
	36V DC	3	76	74.0	185	17.9 A	5 25/32 in	4HCH1	1 7/8 in	Ametek	119432-13	**3GXF2**
	120V AC	2	97	81.8	250	8.6 A	6 ½ in	152F62	1 7/8 in	Ametek	116392-00	**2M430** *
	120V AC	2	102.6	88.2	288	8.2 A	6 ½ in	2UV81	1 7/8 in	Ametek	116210-85	**4M928**
	120V AC	2	104	91.3	300	9.1 A	6 ½ in	2UV81	1 7/8 in	Ametek	116207-00	**2M201**
	120V AC	2	97.4	92.5	301	9.9 A	6 15/16 in	41RD41	1 7/8 in	Ametek	116474-37	**4M983** *
	120V AC	2	112	106.7	404	11.7 A	6 15/16 in	41RD41	1 7/8 in	Ametek	116472-13	**4M937** *
	120V AC	3	99	117.4	368	10.7 A	5 25/32 in	41RD41	1 7/8 in	Ametek	116565-13	**4M923** *
	120V AC	3	99	117.4	368	10.7 A	5 25/32 in	41RD41	1 7/8 in	Ametek	116565-29	**4M924** *
	240V AC	2	106.6	87.5	315	4.7 A	6 15/16 in	152F63	1 7/8 in	Ametek	116420-13	**4M934** *
	220V AC	2	113.2	100.5	358	6.6 A	7 in	152F63	1 7/8 in	Ametek	116353-13	**4M936**
	240V AC	3	94	115.5	348	5.4 A	5 25/32 in	152F63	1 7/8 in	Ametek	116859-00	**4M944**
7.2 in	120V AC	2	110	123.0	455	12.8 A	7 11/16 in	2XB24	2 in	Ametek	117467-13	**4M889** *
Metal Mounting Brackets												
5.7 in	120V AC	1	92.6	47.8	157	5.7 A	5 in	152F62	1 7/8 in	Ametek	116520-50	**4M941**
	120V AC	3	95.3	137.1	465	13.1 A	5 25/32 in	2UV68	1 7/8 in	Ametek	116765-00	**4M922**
	120V AC	3	95.3	137.1	465	13.1 A	5 25/32 in	2UV68	1 7/8 in	Ametek	116765-13	**4M921** *
7.2 in	120V AC	2	105.4	110.1	392	12.7 A	6 13/16 in	2XB23	2 in	Ametek	115937	**2M178** *
	120V AC	3	92.1	134.0	403	13.8 A	7 11/64 in	2XB23	2 in	Ametek	116103-00	**2M188** *
	120V AC	3	92.1	134.0	403	13.7 A	7 11/64 in	2XB23	2 in	Ametek	116161-00	**4M884** *
	120V AC	3	94.3	134.0	438	12.6 A	7 11/64 in	2XB23	2 in	Ametek	116119-00	**2M202**
	120V AC	3	102.5	145.9	530	14.4 A	7 11/64 in	2UV78	2 in	Ametek	117500-12	**3HV25**
	240V AC	2	107.9	95.0	390	4.9 A	6 13/16 in	2UV77	2 in	Ametek	115950	**4M888** *
	240V AC	2	97.8	109.6	338	5.9 A	6 3/16 in	2UV77	2 in	Ametek	115684	**4M887**
	240V AC	3	97.3	106.0	404	7 A	7 11/64 in	2UV77	2 in	Ametek	116136-00	**4M883** *
8.4 in	120V AC	1	166	110.0	717	15.1 A	6 in	Mfr. No. 50-5954	—	Ametek	122133-00	**6VMW4**
	120V AC	2	142	150.0	700	13.8 A	7 in	Mfr. No. 50-5967	—	Ametek	122175-00	**6VMX0**
	120V AC	2	142	150.0	700	13.8 A	7 in	Mfr. No. 50-5967	—	Ametek	122176-18	**6VMX1**
	240V AC	2	142	150.0	700	7.2 A	7 in	Mfr. No. 50-5969	—	Ametek	122177-00	**6VMX2**
Aluminum Mounting Brackets												
5.7 in	240V AC	3	95.1	137.2	448	7 A	5 25/32 in	2UV80	1 7/8 in	Ametek	117123-00	**3EAK5**
7.2 in	120V AC	2	102.7	110.0	384	13 A	6 1/16 in	2XB23	2 in	Ametek	115334	**2M174**
Thru-Flow Discharge												
Thermoset Mounting Brackets												
5.7 in	120V AC	1	113.5	63.0	214	7.6 A	4 ½ in	2UY15	—	Ametek	119400-00	**3EAK8**
	120V AC	2	95	90.2	245	8.3 A	5 25/32 in	2UY15	—	Ametek	119402-00	**3GXE2**
	120V AC	1	115	60.0	215	8.2 A	4 7/8 in	34DA21	2 in	Dayton	32ZN77	**32ZN77**
	120V AC	1	125	70.0	280	10.1 A	5 ¼ in	34DA21	2 in	Dayton	32ZN78	**32ZN78**
	120V AC	1	123	60.6	227	6.9 A	4 9/16 in	Mfr. No. 33400-2	—	Ametek	116297-00	**2M203**
	120V AC	2	105	105.0	340	11 A	6 ¼ in	34DA21	2 in	Dayton	32ZN80	**32ZN80**
Metal Mounting Brackets												
5.7 in	120V AC	1	112	63.0	190	6.8 A	4 ½ in	Mfr. No. 33400-13	—	Ametek	116309-00	**2M194**
	120V AC	2	94	90.2	241	7.7 A	5 9/16 in	2UV81	—	Ametek	116669-50	**2M421** †
	120V AC	2	94	90.2	241	7.7 A	5 25/32 in	152F62	—	Ametek	116457-00	**2M420** †
	120V AC	2	95	91.2	245	8.3 A	5 25/32 in	152F62	—	Ametek	116311-01	**2M192**
	120V AC	2	98.7	92.0	257	7.6 A	5 25/32 in	2UV81	—	Ametek	115750	**2M262**
	120V AC	2	98	92.0	257	7.5 A	5 ¾ in	152F62	—	Ametek	115744	**2M198** †
	120V AC	2	99	92.0	260	8 A	5 ¾ in	2UV81	—	Ametek	115737	**2M263**
	120V AC	2	104	100.0	321	9 A	5 25/32 in	2UV81	—	Ametek	116671-50	**4M898** †
	120V AC	2	120.7	96.4	373	10.3 A	5 25/32 in	2UV81	—	Ametek	116146-00	**2M186**
	120V AC	2	115	96.4	356	9.4 A	5 ¾ in	152F62	—	Ametek	115982	**4M982**
	120V AC	2	115	96.4	356	9.5 A	5 13/16 in	2UV81	—	Ametek	116884-49	**4M905** †
	120V AC	2	101.3	114.4	365	10.6 A	5 25/32 in	41RD41	—	Ametek	116432-00	**2M422**
	120V AC	2	122	100.4	447	10.7 A	5 25/32 in	41RD41	—	Ametek	115923	**4M903**
	240V AC	1	110.8	61.7	219	4 A	4 9/16 in	152F63	—	Ametek	116668-50	**2M427** †
	220V AC	2	95.4	78.0	225	3.7 A	5 25/32 in	152F63	—	Ametek	115756	**2M182**
	240V AC	2	108.9	87.8	294	4.4 A	5 25/32 in	152F63	—	Ametek	116670-50	**2M424** †
	240V AC	2	106.5	87.8	281	4.4 A	5 25/32 in	152F63	—	Ametek	116312-00	**2M423**
	240V AC	2	114.8	98.9	343	5.3 A	5 25/32 in	152F63	—	Ametek	116604-00	**4M900** †
Aluminum Mounting Brackets												
5.7 in	120V AC	1	147.3	98.0	489	11.6 A	4 ¾ in	2UV81	—	Ametek	119347-00	**3EAK7**
	120V AC	1	112	63.0	195	6.8 A	4 ½ in	Mfr. No. 33384-1	—	Ametek	116455-00	**413W26** †

** Air-sealed bearing protection. † Auto thermal protection; all others have none.*

PERIPHERAL DISCHARGE

Air flows into the bottom of the motor and is discharged through vents in the motor.



TANGENTIAL DISCHARGE

Air flows into the bottom of the motor and is discharged through an air tube on the side of the motor.

THRU-FLOW DISCHARGE

Air flows into the bottom of the motor and is discharged through the top of the motor to provide cooling.

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

5.7"-Dia. Tangential Bypass Brushless Blowers

- Enclosure: open
- Thermal protection: auto
- Mounting: tab, all-position
- Bearings: ball
- Max. ambient temp.: 50°C

Adjustable, built-in speed control makes a secondary pressure control device unnecessary. An external hose is easily attached to the exhaust tube. Included wiring harness allows hard-wiring to external power. Manually controlled units have easily-adjusted built-in trim-pot. Electronically controlled models require a remote 0 to 10VDC reference signal (not included). For use in business machines, computer peripherals, material handling, air samplers/evacuators, packaging systems, photographic medical equipment, and air beds.

1MCG5

Watts	Blower Stages	Voltage	Max. Amps	H	Discharge Dia.	Vacuum (H_2O Sealed)	CFM	Manual Speed Control Blowers: Mfr. Model	Manual Speed Control Blowers: Item No.	Electronic Speed Control Blowers: Mfr. Model	Electronic Speed Control Blowers: Item No.
400 W	1	115V AC	5 A	5 11/16 in	1 1/4 in	29 in wc	60	—	—	BBA14-111SET-00	**1MCG8**
	1	115V AC	5 A	5 11/16 in	1 1/4 in	28 in wc	64	BBA14-111SMB-00	**1MCG9**	BBA14-111SEB-00	**1MCG7**
	1	115V AC	5 A	5 11/16 in	1 3/4 in	24 in wc	105	BBA14-111HMB-00	**1MCG6**	BBA14-111HEB-00	**1MCG5**
	1	230V AC	4.5 A	5 11/16 in	1 1/4 in	28 in wc	64	BBA14-211SMB-00	**1MCJ4**	BBA14-211SEB-00	**1MCJ3**
	1	230V AC	4.5 A	5 11/16 in	1 3/4 in	24 in wc	105	BBA14-211HMB-00	**1MCJ2**	BBA14-211HEB-00	**1MCJ1**
	2	115V AC	5 A	5 11/16 in	1 1/4 in	53 in wc	57	—	—	BBA14-112SET-00	**1MCH3**
	2	115V AC	5 A	5 11/16 in	1 3/4 in	45 in wc	86	BBA14-112HMB-00	**1MCH1**	BBA14-112HEB-00	**1MCH2**
	2	230V AC	4.5 A	5 11/16 in	1 3/4 in	45 in wc	86	—	—	BBA14-212HEB-00	**1MCJ6**
	3	115V AC	5.2 A	5 11/16 in	1 1/4 in	65 in wc	47	BBA14-113SMB-00	**1MCH5**	BBA14-113SEB-00	**1MCH4**
	3	230V AC	4.7 A	5 11/16 in	1 1/4 in	63 in wc	47	—	—	BBA14-213SEB-00	**1MCJ8**
	3	230V AC	4.7 A	5 11/16 in	1 3/4 in	63 in wc	81	—	—	BBA14-213HEB-00	**1MCJ7**
800 W	1	115V AC	9.5 A	5 11/16 in	1 3/4 in	43 in wc	135	BBA14-121HMB-00	**1MCH6**	—	—
	2	115V AC	9.5 A	5 11/16 in	1 3/4 in	60 in wc	105	BBA14-122HMB-00	**1MCH7**	—	—
	3	115V AC	9 A	5 11/16 in	1 1/4 in	90 in wc	68	BBA14-123SMB-00	**1MCH9**	BBA14-123SEB-00	**1MCH8**
1200 W	1	230V AC	10.5 A	5 11/16 in	1 3/4 in	55 in wc	176	BBA14-221HMB-00	**1MCK1**	BBA14-221HEB-00	**1MCJ9**
	2	230V AC	10.5 A	5 11/16 in	1 3/4 in	88 in wc	151	BBA14-222HMB-00	**1MCK3**	BBA14-222HEB-00	**1MCK2**
	3	230V AC	10.5 A	5 11/16 in	1 1/4 in	143 in wc	79	BBA14-223SMB-00	**1MCK5**	BBA14-223SEB-00	**1MCK4**

Shaded Pole C-Frame Motors

- No. of speeds: all motors are 1-speed except for 4M075 is 2-speed
- Enclosure: open air-over
- Service factor: 1.0
- Insulation: Class B
- Mounting: all-angle
- Max. ambient temp.: 40°C

For use in small fans and blowers found in bathroom ventilators, range hoods, electric heaters, hair dryers, slide projectors, air cleaners, humidifiers, and refrigeration equipment.

Note: This product is NOT SUITABLE for any unattended equipment (including built-in bathroom exhaust fans), unless the listed Thermal Protection is 1 Shot.

Stud/Hole Mount
- Mounting: two #8-32 studs at shaft end, and mounting holes on each side of the stator, 1 7/8" OC

Stud Mount
- Mounting: two #8-32 studs on 1 7/8" OC
- OEM replacement with 2-prong plug

Hole Mount
- Mounting: two #6-32 threaded holes on 1 7/8" centers
- OEM replacement with OEM plug
- Dual shaft

Stud/Hole Mount

Stud Mount

Hole Mount

OEM Name	OEM Part No.	Item No.	
Nutone, Air-King	Various	4M180	*
Nutone	C65878	4M209	*
Broan	99080207	4M210	*
Aubrey	2200-02	4M211	*
Fasco	0648-0027	4M212	*
Carrier	High-Efficiency Furnaces	5M065	†
Carrier	High-Efficiency Furnaces	5M066	†

HP	Nameplate RPM	Rotation	Thermal Protection	Voltage	Full Load Amps	Bearings	Stack Size	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.
Stud/Hole Mount												
1/500	3,000	CWSE	Impedance with One-Shot Backup	115V AC	0.26	Sleeve	3/8 in	3/16 in	1 in	1 1/2 in	12 in	**4M067**
1/250	3,000	CWSE		115V AC	0.41	Sleeve	1/2 in	3/16 in	1 in	1 5/8 in	12 in	**4M068**
	3,000	CWSE		230V AC	0.17	Sleeve	1/2 in	3/16 in	1 in	1 5/8 in	12 in	**4M069**
	3,000	CWSE		120V AC	0.37	Ball	1/2 in	3/16 in	2 in	1 5/8 in	12 in	**4M077**
1/150	3,000	CWSE		115V AC	0.54	Sleeve	5/8 in	3/16 in	1 in	1 11/16 in	12 in	**4M070**
	3,000	CWSE		230V AC	0.24	Sleeve	5/8 in	3/16 in	1 in	1 11/16 in	12 in	**4M071**
	3,000	CWSE		120V AC	1.00	Ball	5/8 in	3/16 in	2 in	1 11/16 in	12 in	**4M078**
1/100	3,000	CWSE		115V AC	0.62	Sleeve	7/8 in	3/16 in	1 in	2 in	12 in	**4M072**
1/70	3,000	CWSE	One-Shot	115V AC	1.20	Sleeve	7/8 in	3/16 in	1 in	2 in	12 in	**4M073**
	3,000	CWSE		230V AC	0.48	Sleeve	7/8 in	3/16 in	1 in	2 in	12 in	**4M074**
	3,000	CWSE		115V AC	1.00	Sleeve	7/8 in	3/16 in	1 in	2 in	12 in	**4M075**
	3,000	CWSE		120V AC	0.96	Ball	7/8 in	3/16 in	2 in	1 7/8 in	12 in	**4M079**
1/40	3,000	CWSE		115V AC	1.20	Sleeve	1 1/2 in	1/4 in	1 in	2 5/8 in	12 in	**4M076**
	3,000	CWSE		115V AC	1.40	Ball	1 1/2 in	1/4 in	2 in	2 1/2 in	12 in	**4M080**
1/20	3,000	CWSE		120V AC	2.8	Sleeve	2 in	1/4 in	1 in	3 1/8 in	12 in	**5M064**
Stud Mount												
1/150	2,750	CWSE	One-Shot	120V AC	0.52	Sleeve	11/16 in	7/32 in	2 5/16 in	2 5/8 in	6 in	**4M180** *
	2,800	CCWSE		120V AC	0.93	Sleeve	1/2 in	7/32 in	1 3/4 in	1 13/16 in	5 in	**4M209** *
	2,800	CCWSE	Impedance with One-Shot Backup	120V AC	0.59	Sleeve	5/8 in	3/16 in	1 9/16 in	1 9/16 in	7 in	**4M210** *
	2,850	CWSE		120V AC	0.61	Sleeve	5/8 in	3/16 in	1 5/16 in	1 9/16 in	5 in	**4M211** *
1/125	2,750	CWSE		120V AC	0.89	Sleeve	1/2 in	3/16 in	1 1/8 in	1 1/8 in	4 in	**4M212** *
Hole Mount												
1/40	3,200	CWSE	One-Shot	120V AC	3.9	Ball	1 1/2 in	7/32 in, 5/16 in	3/4 in, 2 in	2 5/8 in	5 in	**5M065** †
	3,200	CWSE		230V AC	1.90	Ball	1 1/2 in	7/32 in, 5/16 in	3/4 in, 2 in	2 5/8 in	5 in	**5M066** †

** 2-prong non-polarized plug. † Molex 2-pin plug.*

Shaded Pole C-Frame Motor Kits for Ventilation/Refrigeration

- Nameplate RPM: 3000
- Enclosure: open air-over
- Max. ambient temp.: 40°C
- Duty: continuous

3HEH1

3LC32

HP	Includes	Rotation	Thermal Protection	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Cord Length	Brand	Mfr. Model	Item No.
1/150	(2) H-Brackets, (3) Fan Blades, (4) Bushings	CW/CCW	Impedance	115V AC	0.35	Ball	3/16 in	1 3/8 in	9 in	Dayton	—	**3HEH1**
1/135	2 Double Male Electrical Terminals, 4 in Diameter Fan Blade	CCWSE	Impedance	115V AC	0.30	Sleeve	3/16 in	1 1/2 in	—	Dayton	—	**3LC32**
1/135	4 and 5 1/2 in Fan Blades, H-brackets, Hub Adapter, Screws, Washers, Wire Nuts	CW/CCW	Impedance	115V AC	0.35	Sleeve	3/16 in	1 3/8 in	12 in	Dayton	—	**4M987**
1/55	(3) 5 in Diameter Fan Blades, (3) 5 1/2 in Diameter Fan Blades, (3) 6 in Diameter Fan Blades, Mounting Blocks	CW/CCW	Auto	110/220V AC	0.91/0.45	Sleeve	3/16 in	7/8 in	—	Acme-Miami	7472	**16U069**
1/45	(2) Fan Blades, (2) H-Brackets, Hardware, Shaft Adapters to Fit 1/4 and 5/16 in Bores and Hubless Blades	CW/CCW	Auto	115/230V AC	1.10/0.55	Sleeve	3/16 in	1 5/16 in	—	Dayton	—	**3HEH2**

Shaded Pole Unit Bearing Motors

Dayton

- Enclosure: totally enclosed air-over
- 60/50 Hz
- Service factor: 1.0
- Insulation: Class A
- Mounting: horizontal or vertical shaft up

Use with commercial and industrial HVAC and refrigeration equipment, and other applications with 6" to 12" fan blades. Motors have oil circulation system to help extend the life of motor and bearings, and allow for vertical application.

Output Watts	HP	Nameplate RPM	Thermal Protection	Voltage	Full Load Amps	Body Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Clockwise Facing Lead End Item No.	Counter Clockwise Facing Lead End Item No.
Cast-Aluminum Housing											
Rear/Double Foot Mounting											
5 W	1/150	1,550	Impedance	115V AC	0.34	3 1/2 in	1/2 in	2 5/8 in	40 °C	**4YFF7**	**4YFF6**
6 W	1/125	1,550	Impedance	115V AC	0.42	3 1/2 in	1/2 in	2 5/8 in	40 °C	**4YFF9**	**4YFF8**
9 W	1/83	1,550	Auto	115V AC	0.62	3 1/2 in	1/2 in	2 5/8 in	40 °C	**4YFG2**	**4YFG1**
9 W	1/83	1,550	Auto	230V AC	0.33	3 1/2 in	1/2 in	2 5/8 in	40 °C	**4YFG4**	**4YFG3**
Rear/Foot Mounting											
2 W	1/370	1,550	Impedance	115V AC	0.25	3 1/2 in	1/2 in	2 3/8 in	40 °C	**4YFH5**	—
2.3 W	1/370	1,550	Impedance	115V AC	0.25	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFG5**	—
4 W	1/185	1,550	Impedance	115V AC	0.34	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFJ2**	**4YFJ3**
4 W	1/185	1,550	Impedance	230V AC	0.17	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFJ4**	**4YFJ5**
6 W	1/125	1,550	Impedance	115V AC	0.42	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFJ6**	—
9 W	1/83	1,550	Auto	115V AC	0.62	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFJ7**	**4YFJ8**
9 W	1/83	1,550	Auto	230V AC	0.33	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFJ9**	**4YFK1**
16 W	1/47	1,550	Auto	115V AC	1.10	3 1/2 in	1/2 in	4 9/32 in	40 °C	**4YFK4**	**4YFK5**
16 W	1/47	1,550	Auto	230V AC	0.60	3 1/2 in	1/2 in	4 9/32 in	40 °C	**4YFK6**	—
Cast-Iron Housing											
Rear/Foot Mounting											
2.5 W	1/300	1,550	Impedance	115V AC	0.25	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFH6**	—
4 W	1/185	1,550	Impedance	115V AC	0.34	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFG8**	**4YFG9**
4 W	1/185	1,550	Impedance	230V AC	0.17	3 1/2 in	1/2 in	3 3/8 in	40 °C	**4YFK2**	**4YFK3**
6 W	1/125	1,550	Impedance	115V AC	0.42	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFG7**	**4YFG6**
9 W	1/83	1,550	Auto	115V AC	0.62	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFH3**	**4YFH2**
9 W	1/83	1,550	Auto	230V AC	0.33	3 1/2 in	1/2 in	3 13/16 in	40 °C	**4YFH4**	**4YFH1**
16 W	1/47	1,550	Auto	115V AC	1.10	3 1/2 in	1/2 in	4 1/16 in	40 °C	**4YFH7**	**4YFH9**
16 W	1/47	1,550	Auto	230V AC	0.60	3 1/2 in	1/2 in	4 1/16 in	40 °C	**4YFH8**	**4YFJ1**

4YFG5

4YFF9

Kryo SSC ECM Unit Bearing Motors

morrillmotors

- Enclosure: totally enclosed air-over
- Rotation: CWLE
- Thermal protection: electronic
- 60 Hz
- Service factor: 1.0
- Insulation: Class B
- Mounting: rear/foot
- 1/4"-20 threaded shaft
- Plug type: round 2-pin

For use in commercial refrigeration evaporator fan applications and in most applications requiring high efficiency and output ratings between 4 and 25W. Aluminum housing. IP65 compliant.

Output Watts	Nameplate RPM	Voltage	Full Load Amps	Body Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
25 to 9 W	1,550	115V AC	0.60	3 15/16 in	5/16 in	3 3/16 in	55 °C	5R999	**39D813**
16 W	1,550	115V AC	0.40	3 15/16 in	5/16 in	3 3/16 in	55 °C	5R031	**39D812**
12 W	1,550	230V AC	0.15	3 15/16 in	5/16 in	3 3/16 in	55 °C	5R030	**39D811**

39D812

ECM Direct-Drive Unit Bearing Fan Motors

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Insulation: Class A
- Mounting: rear/double foot
- Body dia.: 3½"
- Max. ambient temp.: 40°C
- Plug type: round 2-pin

Suitable for evaporator fans, walk-in coolers and freezers, ice machines, beverage merchandisers, and vending machines. Threaded 1/4-20 shaft. Cast-iron frame. Evaporator-duty only. Include speed nut and mounting screws.

Output Watts	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Orientation	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
14 to 16 W	1/50	1,550	CWLE	115V AC	0.58	Horizontal or Up	7/16 in	3 3/4 in	UTB1CC1551EM56	**5ULC9**
6 to 12 W	1/60	1,550	CWLE	115V AC	0.30	Horizontal or Up	7/16 in	3 3/4 in	UTB1CB1551EM56	**5ULC8**

5ULC8

Shaded Pole Unit Bearing Motors

- Service factor: 1.0
- Mounting: rear/double foot
- Max. ambient temp.: 40°C
- Duty: continuous
- Shaft orientation: horizontal or up
- Plug type: round 2-pin
- Original OEM replacement motor

Feature precision-machined housing with positive-flow lubrication and a preoiled felt wick for extended use with no reoiling. #8 mounting holes, 2 13/16" OC. 1/4-20 threaded shafts, except 4M159 and 4M160 have 3/8" dia. with flat. 2MY41 has 5/16" dia., and motor leads and shaft exit the same side of housing. For use in commercial and industrial HVAC and refrigeration equipment, and other applications with 6" to 12" fan blades.

Output Watts	HP	Nameplate RPM	Rotation	Thermal Protection	Voltage	Full Load Amps	Ins. Class	Body Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Totally Enclosed Air-Over												
5 W	1/150	1,500	CWLE	Impedance	115V AC	0.35	B	3 1/2 in	3/8 in	2 1/2 in	SPFBC51	**5YJN8**
9 W	1/85	1,500	CWLE	Auto	115V AC	0.60	B	3 1/2 in	3/8 in	3 in	SPFBE91H	**5YJN9**
16 W	1/47	1,500	CWLE	Auto	115V AC	0.80	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L16EM1	**4M153**
16 W	1/47	1,500	CWLE	Auto	230V AC	0.40	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L16EM2	**4M154**
25 W	1/30	1,500	CWLE	Auto	115V AC	1.10	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L25EM1	**4M155**
25 W	1/30	1,500	CWLE	Auto	230V AC	0.60	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L25EM2	**4M156**
35 W	1/20	1,500	CWLE	Auto	115V AC	1.40	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L35EM1	**4M157**
35 W	1/20	1,500	CWLE	Auto	230V AC	0.70	A	3 7/8 in	1/2 in	3 1/2 in	ESP-L35EM2	**4M158**
Open Air-Over												
50 W	1/15	1,500	CWLE	Auto	115V AC	1.70	A	3 7/8 in	1 1/2 in	4 5/8 in	ESP-OL50EM1	**4M159**
50 W	1/15	1,500	CWLE	Auto	208-230V AC	1.20-1.10	A	3 7/8 in	1 1/2 in	4 1/4 in	ESP-OL60EM2	**4M160**
50 W	1/15	1,500	CCWSE	Auto	230V AC	0.85	A	3 7/8 in	1 1/2 in	3 3/4 in	ESP-OL50EMJR21	**2MY41**
50 W	1/15	1,500	CWLE	Auto	115V AC	1.70	A	3 7/8 in	13/32 in	5 9/16 in	ESP-OL50EM16H	**40GN88**
50 W	1/15	1,500	CWLE	Auto	230V AC	0.85	A	3 7/8 in	13/32 in	5 9/16 in	ESP-OL50EM26H	**40GN89**

4M159

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

25TU24

morrillmotors

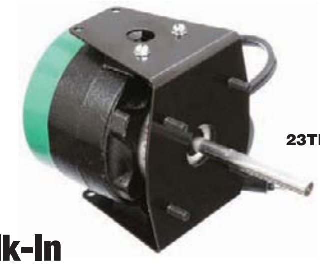
Arktic 59 Series 3.3" ECM Direct-Drive Blower Motors

- Enclosure: totally enclosed air-over
- Thermal protection: electronic
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Shaft orientation: all-angle
- Plug type: round 2-pin

Feature higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm (±6%) independent of static pressure for better air distribution through the refrigeration area. Can be used for replacing shaded pole, PSC, and ECM motors. Suitable for evaporator fan motors used in beverage merchandisers, display cases, freezers, ice machines, vending machines, and walk-in coolers.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	CLOCKWISE LEAD END Item No.	COUNTER CLOCKWISE LEAD END Item No.
1/15	1,550	115V AC	1.00	5/16 in	1 in	4 1/16 in	—	25TU28 *†
	1,550	115V AC	1.00	5/16 in	2 5/8 in	4 1/4 in	25TU24	—
	1,550	115V AC	1.00	5/16 in	2 5/8 in	4 1/16 in	—	25TU25
	1,550/800	115V AC	1.10	5/16 in	2 5/8 in	3 13/16 in	40TL72	40TL71
	1,550	208-230V AC	0.63	5/16 in	1 in	4 1/16 in	—	25TU33 *
	1,550	208-230V AC	0.63	5/16 in	2 5/8 in	4 1/16 in	25TU29 *	25TU30 *
	1,550/800	208-230V AC	0.63	5/16 in	2 5/8 in	3 13/16 in	40TL69	40TL70

** Front and rear mounting. † Front mounting only.*



23TM13

EM&S

3.3" EC Walk-In Cooler Evaporator Motors

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Insulation: Class B (1/15 HP), Class A (1/10 HP)
- Bearings: unit
- Max. ambient temp.: 40°C
- Plug type: round 2-pin

Feature higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm (±6%) independent of static pressure for better air distribution through the refrigeration area. Motors can be used for replacing shaded pole, PSC, and ECM motors. Suitable for condenser and evaporator fan motors used in display cases, ice machines, beverage merchandisers, vending machines, walk-in coolers, and freezers.

HP	Nameplate RPM	Voltage	Full Load Amps	Motor Shaft Rotation	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
Cast Iron Frame with Stud Mounting								
Horizontal or Vertical Shaft Down Mounting Position								
1/15	1,550	115V AC	1.20	CCWLE	5/16 in	2 5/8 in	3 1/2 in	23TM13
	1,550	115V AC	1.20	CWLE	5/16 in	2 5/8 in	3 1/2 in	23TM16
	1,550	230V AC	0.77	CCWLE	5/16 in	2 5/8 in	3 1/2 in	23TM14
All Angle Mounting Position								
1/10	1,550	115V AC	1.00	CCWLE	5/16 in	2 5/8 in	4 3/8 in	5ULD1
	1,550	115V AC	1.00	CWLE	5/16 in	2 5/8 in	4 3/8 in	5ULD0
	1,550	230V AC	1.00	CCWLE	5/16 in	2 5/8 in	4 3/8 in	5ULD3
	1,550	230V AC	1.00	CWLE	5/16 in	2 5/8 in	4 3/8 in	5ULD2

Dayton

3.3"-Dia. PSC Motors

3RCX2

20HN78

- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Deliver higher performance, efficiency, and starting torque than standard 3.3" shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.
Open Air-Over									
1/100	1,550	CW/CCW	120V AC	0.22	1/4 in	1 1/2 in	4 in	20 in	20HN87 ‡#
1/70	1,550	CW/CCW	120V AC	0.30	1/4 in	1 1/2 in	4 in	20 in	20HN88 ‡#
1/50	1,550	CW/CCW	120V AC	0.35	1/4 in	1 1/2 in	4 in	20 in	20HN89 ‡#
1/40	1,550	CW/CCW	120V AC	0.37	1/4 in	1 1/2 in	4 in	20 in	20HN90 ‡#
1/30	1,550	CW/CCW	120V AC	0.50	1/4 in	1 1/2 in	4 in	20 in	20HN91 ‡#
1/25	1,550	CW/CCW	120V AC	0.59	1/4 in	1 1/2 in	4 in	20 in	20HN92 ‡#
1/20	3,000	CW/CCW	115V AC	0.63	5/16 in	2 1/2 in	3 11/16 in	20 in	6NZP6
	1,550	CW/CCW	115V AC	0.80	5/16 in	2 1/2 in	3 11/16 in	20 in	3RCX2
	1,550	CW/CCW	208-230V AC	0.40-0.38	5/16 in	2 1/2 in	3 11/16 in	20 in	3RCX8 †
1/15	1,625	CWSE	115V AC	1.00	5/16 in	2 1/4 in	5 in	12 in	3M499 *
	1,550	CW/CCW	115V AC	1.00	5/16 in	2 1/2 in	3 15/16 in	20 in	3RCX3
	1,550	CW/CCW	208-230V AC	0.50-0.46	5/16 in	2 1/2 in	3 15/16 in	20 in	3RCX9 †
	1,550	CW/CCW	120V AC	0.93	1/4 in	1 1/2 in	4 1/4 in	20 in	20HN94 ‡#
1/10	3,000	CW/CCW	115V AC	1.20	5/16 in	2 1/2 in	4 1/4 in	20 in	6NZP8
	1,550	CW/CCW	115V AC	1.40	5/16 in	2 1/2 in	4 1/4 in	20 in	3RCX4
	1,550	CW/CCW	120V AC	1.50	1/4 in	1 1/2 in	4 11/16 in	20 in	20HN95 ‡#
Totally Enclosed Air-Over									
1/100	1,550	CW/CCW	120V AC	0.21	1/4 in	1 1/2 in	4 in	20 in	20HN78 ‡#
1/70	1,550	CW/CCW	120V AC	0.27	1/4 in	1 1/2 in	4 in	20 in	20HN79 ‡#
1/50	1,550	CW/CCW	120V AC	0.32	1/4 in	1 1/2 in	4 in	20 in	20HN80 ‡#
1/40	1,550	CW/CCW	120V AC	0.37	1/4 in	1 1/2 in	4 in	20 in	20HN81 ‡#
1/25	1,550	CW/CCW	120V AC	0.54	1/4 in	1 1/2 in	4 in	20 in	20HN83 ‡#
1/20	1,550	CW/CCW	115V AC	0.70	5/16 in	2 1/2 in	3 11/16 in	20 in	3RCX5
1/15	1,550	CW/CCW	208-230V AC	0.50-0.45	5/16 in	2 1/2 in	3 1/2 in	20 in	3RCY3
Totally Enclosed Fan-Cooled									
1/8	3,000	CW/CCW	115V AC	1.30	5/16 in	2 5/16 in	5 15/16 in	12 in	3M292
	3,000	CW/CCW	230V AC	0.60	5/16 in	2 5/16 in	5 3/16 in	12 in	4M090 *†

** Requires capacitor 2MDV3, available on Grainger.com. † 60/50 Hz. ‡ Includes bracket and removable studs. # 2-prong polarized plug.*

FASCO AC MOTORS & BLOWERS

3-in-1 HP 3.3"-Dia. PSC Motor

- Enclosure: open air-over
- Thermal protection: auto
- 60/50 Hz
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Open air-over motor replaces 1/12, 1/15, and 1/20 HP PSC and low-efficient shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
1/12	1,550/1,350	CW/CCW	115/208-230V AC	0.90, 0.43,1.10 0.49	5/16 in	3 1/4 in	3 9/16 in	2NFD1

A.

B.

C.

D.

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K.

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M.

Dayton

3.3" & 4"-Dia. Shaded Pole Motors

- All motors are 1-speed except 3M549 is 2-speed
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Max. ambient temp.: 40°C
- Duty: continuous

For OEM and replacement use in air-over fan and blower applications such as bathroom fans and range hoods. Internal fan on the totally-enclosed fan-cooled motors makes these motors suitable for mechanical-duty applications such as pumps, diaphragm compressors, laboratory equipment, and business machines. All-steel construction.

HP	Key	Nameplate RPM	Rotation	Voltage	Full Load Amps	Bearings	Mounting	Stud/Base Mtg. Pattern	Stud Location*	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Plug Type	Item No.
Open Air-Over, 3 5/16 in Body Dia.															
1/125	B	3,000	CCWSE	115V AC	0.49	Sleeve	Face	3 7/8 in x 3 7/8 in	2/BE	1/4 in	3/4 in	2 15/16 in	6 in	—	**4M298**
1/100	C	3,000	CWSE	115V AC	0.60	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 3/4 in	12 in	—	**3M537**
	C	1,550	CWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/SE	1/4 in	2 1/4 in	2 1/8 in	12 in	—	**3M534**
	C	1,550	CCWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/SE	1/4 in	2 1/4 in	2 3/4 in	12 in	—	**3M535**
	C	1,550	CWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 3/4 in	12 in	—	**3M536**
1/70	A	3,000	CWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/SE	1/4 in	1 3/8 in	3 1/2 in	12 in	—	**4M299**
	A	1,550	CWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	3 7/8 in	16 in	—	**3M560**
	C	1,550	CWSE	115V AC	0.75	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 5/8 in	21 in	—	**3M538**
	C	1,550	CCWSE	115V AC	0.75	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 3/8 in	2 5/8 in	21 in	—	**3M539**
1/50	C	3,000	CWSE	115V AC	0.80	Sleeve	Stud	2 7/8 in	2/SE	1/4 in	2 1/4 in	2 1/2 in	12 in	—	**3M729**
	C	1,550	CWSE	115V AC	0.80	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	3 1/16 in	21 in	—	**3M542**
	C	1,550	CCWSE	115V AC	0.85	Sleeve	Stud	2 in x 2 in	4/OSE	1/4 in	2 1/4 in	2 1/4 in	10 in	2 Prong Non-Polarized	**4M193**
	D	1,550	CWSE	230V AC	0.50	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 1/4 in	2 1/2 in	12 in	—	**3M726**
1/40	C	3,000	CWSE	115V AC	0.90	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 3/8 in	3 5/16 in	12 in	—	**3M545**
	D	3,000	CWSE	115V AC	1.20	Sleeve	Stud	2 7/8 in	2/SE	1/4 in	2 1/4 in	3 in	12 in	—	**3M728**
	E	3,000	CCWLE	115V AC	0.98	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 9/16 in	12 in	—	**3M730**
	A	1,550	CWSE	115V AC	1.00	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 in	4 3/16 in	15 in	—	**3M562**
	C	1,550	CWSE	115V AC	1.10	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 5/16 in	3 1/8 in	12 in	—	**3M543**
	C	1,550	CCWSE	115V AC	1.10	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 5/16 in	3 1/8 in	12 in	—	**3M544**
	D	1,550	CWSE	115V AC	0.97	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 in	3 in	12 in	—	**3M722**
	E	1,550	CWLE	115V AC	1.15	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 5/16 in	5 3/8 in	12 in	—	**3M724**
1/30	D	3,000	CWSE	230V AC	0.60	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 1/4 in	3 1/8 in	6 in	—	**3M725**
	D	3,000	CWSE	115V AC	1.20	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 3/8 in	3 in	12 in	—	**3M777**
	C	1,550	CWSE	115V AC	1.20	Sleeve	Stud	2 in x 2 in	4/BE	5/16 in	2 1/4 in	3 1/2 in	16 in	—	**3M546**
	C	1,550	CWSE	115V AC	1.20	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 3/8 in	2 7/8 in	21 in	—	**3M549**
1/25	F	1,550	CWLE	115V AC	1.80	Sleeve	Ring	—	2/BE	1/4 in	2 3/8 in	4 15/16 in	10 in	2 Prong Non-Polarized	**4M195**
1/20	D	1,550	CWSE	115V AC	2.1	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	2 3/4 in	6 in	—	**3M778**
	E	1,550	CCWLE	115V AC	2.1	Sleeve	Stud	2 in x 2 in	4/BE	5/16 in	2 5/16 in	5 3/16 in	12 in	—	**3M083**
	E	1,550	CWSE	115V AC	2.00	Sleeve	Stud	2 in x 2 in	4/BE	5/16 in	2 in	3 1/2 in	16 in	—	**3M547**
1/15	C	3,000	CWSE	115V AC	2.00	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	3 5/8 in	16 in	—	**3M548**
	G	1,550	CCWSE	115V AC	2.5	Sleeve	Lug	6 1/8 in	2/BE	5/16 in	2 in	3 in	12 in	—	**4M301**
Totally Enclosed Air-Over, 3 5/16 in Body Dia.															
1/100	H	1,550	CWSE	115V AC	0.60	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 5/16 in	3 1/4 in	10 in	2 Prong Non-Polarized	**3M552**
	H	1,550	CCWSE	115V AC	0.60	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	3 1/4 in	10 in	2 Prong Non-Polarized	**3M660**
	I	1,550	CWSE	115V AC	0.60	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 3/8 in	2 7/8 in	12 in	—	**4M216**
1/70	I	1,550	CWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 7/8 in	12 in	—	**3M554**
	I	1,550	CCWSE	115V AC	0.70	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 1/4 in	2 13/16 in	12 in	—	**3M661**
1/40	I	1,550	CWSE	115V AC	1.00	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 1/4 in	3 3/8 in	12 in	—	**3M555**
	I	1,550	CCWSE	115V AC	1.00	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 1/4 in	3 3/8 in	12 in	—	**3M662**
	J	1,550	CWSE	115V AC	1.10	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 5/16 in	2 3/4 in	12 in	—	**3M556**
1/30	I	3,000	CWSE	115V AC	1.20	Sleeve	Stud	2 7/8 in	2/BE	1/4 in	2 5/16 in	3 13/16 in	12 in	—	**4M094**
	I	1,550	CCWSE	115V AC	1.20	Sleeve	Stud	2 7/8 in	2/BE	5/16 in	2 1/2 in	3 1/2 in	12 in	—	**4M199**
	K	1,550	CWSE	115V AC	1.20	Sleeve	Stud	2 in x 2 in	4/BE	5/16 in	2 1/4 in	3 5/8 in	15 in	—	**3M557**
Totally Enclosed Fan-Cooled, 4 in Body Dia.															
1/20	L	1,550	CWSE	115V AC	2.00	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	4 1/4 in	12 in	—	**5K001**
	L	1,550	CWSE	115V AC	1.80	Ball	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	4 1/4 in	12 in	—	**5K004**
	L	1,550	CWSE	230V AC	0.90	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	4 1/4 in	12 in	—	**5K003**
	L	1,550	CWSE	230V AC	1.00	Ball	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	4 1/4 in	12 in	—	**3M001**
	L	1,550	CCWSE	115V AC	1.80	Ball	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	4 1/4 in	12 in	—	**3M290**
1/15	L	3,000	CWSE	115V AC	1.80	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 1/4 in	5 in	12 in	—	**4M204**
	L	1,550	CWSE	115V AC	2.3	Sleeve	Stud	2 in x 2 in	4/SE	5/16 in	2 3/8 in	4 1/2 in	12 in	—	**3M363**
	L	1,550	CCWSE	115V AC	2.3	Sleeve	Stud	2 7/8 in	2/SE	5/16 in	2 3/8 in	4 1/2 in	12 in	—	**3M291**
	M	1,550	CWSE	115V AC	2.3	Sleeve	Cradle Base	3 3/4 in x 2 3/4 in	2/BE	5/16 in	2 in	5 1/2 in	12 in	—	**3M364**

***** *BE = Both Ends, SE = Shaft End, OSE = Opposite Shaft End.*

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Shaded Pole
38N522

Shaded Pole
32NA46

FASCO
AC MOTORS & BLOWERS

3.3"-Dia. 1-Phase Motors

- Thermal protection: all auto except for 38N527
- Service factor: 1.0
- Max. ambient temp.: 40°C
- Duty: continuous

Suitable for air-moving or mechanical applications, including fans, air conditioners, heaters, pumps, and compressors. PSC motors include capacitor. Stud base pattern is 2 7/8" x 2 7/8", except 38N540 is 3 7/8" x 3 7/8".

Shaded Pole
38N573

PSC
38N558

PSC
38N524

HP	Nameplate RPM	No. of Speeds	Rotation	Voltage	Full Load Amps	Ins. Class	Mounting	Stud Location	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Mfr. Model	Item No.
Shaded Pole, Open															
1/85	3,000	1	CWSE	115V AC	0.62	B	Stud	2/OLE	Sleeve	1/4 in	2 3/8 in	2 1/4 in	—	D200	**38N515**
Shaded Pole, Open Air-Over															
1/125, 1/200	1,500	2	CWSE	115V AC	0.50/0.30	B	Stud	4/BE	Sleeve	1/4 in	3 1/4 in	2 11/16 in	—	D129	**38N527** †
1/120, 1/160	600	1	CCWSE	208-240V AC	0.50	B	Stud	4/OSE	Sleeve	5/16 in	1 in	3 1/16 in	—	D107	**38N526**
1/100	3,000	1	CCWSE	120V AC	0.60	B	Stud	4/BE	Sleeve	1/4 in	3 1/2 in	2 7/8 in	—	D229	**38N529**
1/100, 1/250	1,540/1,390	1	CW/CCW	115V AC	0.60/0.40	B	Band	—	Sleeve	5/16 in	1 1/8 in	4 1/2 in	—	D1162	**38N528**
1/90	1,300	1	CCWSE	240V AC	0.40	B	Stud	4/BE	Sleeve	1/4 in	1 1/2 in	2 13/16 in	—	D1119	**38N530**
1/50	3,000	1	CWSE	115V AC	0.92	B	Stud	4/BE	Sleeve	1/4 in	2 in	3 7/16 in	—	D228	**38N532**
	2,500	1	CWSE	230V AC	0.64/0.53	B	Stud	4/BE	Sleeve	1/4 in	1 1/4 in	4 1/4 in	—	D608	**38N518**
1/50, 1/65, 1/30	1,300	3	CWSE	120V AC	1.10/0.80/0.60	B	Stud	4/BE	Sleeve	1/4 in	1 3/4 in	2 13/16 in	—	D1134	**38N533**
1/40	1,550	1	CCWSE	115V AC	1.00	B	Stud	2/OSE	Sleeve	1/4 in	1 3/4 in	2 11/16 in	—	D106	**38N535**
	1,550	1	CCWSE	115V AC	1.00	B	Stud	2/OSE	Sleeve	1/4 in	1 1/2 in	2 11/16 in	—	D105	**38N538**
	1,500	1	CWSE	230V AC	0.60/0.70	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	3 1/16 in	—	D190	**38N536**
1/40, 1/50, 1/80	1,500	3	CWLE	115V AC	1.30/0.90/0.70	B	Stud	4/BE	Sleeve	5/16 in	4 in	3 1/16 in	—	D128	**38N537** †
1/30	3,000	1	CWSE	115V AC	1.10	B	Stud	4/BE	Sleeve	1/4 in	2 1/2 in	4 1/8 in	—	D209	**38N519** †
	3,000	1	CWSE	115V AC	1.00	B	Stud	4/BE	Sleeve	1/4 in	3 in	4 1/8 in	—	D208	**38N520**
	1,550	1	CCWSE	115V AC	1.30	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 5/16 in	—	D515	**38N541**
1/30, 1/125	1,550	2	CWSE	115V AC	1.40/0.90	B	Stud	4/BE	Sleeve	5/16 in	1 1/2 in	3 5/16 in	—	D532	**38N542**
1/30	1,500	1	CWLE	115V AC	1.30	B	Stud	4/BE	Sleeve	5/16 in	2 in	3 11/16 in	—	D136	**38N539** †
	1,500	2	CCWSE	115V AC	1.30/1.00	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 1/4 in	—	D181	**38N543**
1/25	3,000	1	CWSE	230V AC	0.65	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	3 1/2 in	—	D216	**38N548**
	1,550	1	CWLE	115V AC	1.80	B	Stud	4/BE	Sleeve	5/16 in	1 7/8 in	3 7/16 in	—	D364	**38N545** †
	1,550	1	CW/CCW	115V AC	2.00	B	Stud	4/BE	Sleeve	5/16 in	1 7/8 in	3 3/4 in	—	D365	**38N546** †
	1,550	2	CWSE	115V AC	1.50	B	Stud	4/BE	Sleeve	5/16 in	2 in	3 3/4 in	—	D332	**38N549**
	1,500	1	CW/CCW	230V AC	0.90	B	Stud	4/BE	Sleeve	5/16 in	3 1/2 in	3 11/16 in	—	D636	**38N547** †
1/20	1,550	1	CWSE	460V AC	0.50	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 5/16 in	—	D186	**38N552**
	1,550	1	CWSE	115V AC	2.1	B	Stud	4/BE	Sleeve	5/16 in	3 in	3 9/16 in	13 in	D1124	**32NA49** **
	1,550	1	CWSE	208-230V AC	1.00	B	Stud	4/SE	Sleeve	5/16 in	2 5/8 in	5 1/16 in	32 in	D470	**32NA56**
	1,550	1	CCWSE	208-230V AC	1.10	B	Stud	4/SE	Sleeve	5/16 in	2 1/2 in	5 1/16 in	35 in	D471	**32NA57**
	1,550	1	CCWSE	115V AC	2.00	B	Stud	4/SE	Sleeve	5/16 in	2 5/8 in	5 1/16 in	34 in	D473	**32NA59**
	1,550	1	CWSE	115V AC	2.00	B	Stud	4/SE	Sleeve	5/16 in	2 5/8 in	5 1/16 in	34 in	D472	**32NA60**
	1,500	1	CWSE	230V AC	0.90	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 3/8 in	—	D188	**38N550**
	1,500	1	CCWSE	230V AC	0.90	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 5/16 in	—	D189	**38N551**
	1,500	1	CCWSE	115V AC	1.90	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 5/16 in	15 in	D1101	**32NA51** **
	1,500	1	CCWSE	208-230V AC	1.40/1.20	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 9/16 in	15 in	D1103	**32NA52** **
	1,450	1	CWSE	208-230V AC	1.00-0.90	B	Stud	4/BE	Sleeve	5/16 in	2 5/8 in	3 3/4 in	14 in	D0396	**32NA47** **
1/16	3,000	1	CCWSE	115V AC	2.00	B	Stud	2/BE	Sleeve	1/4 in	2 3/4 in	6 5/8 in	—	D213	**38N553** †
1/15	1,600	1	CWSE	120V AC	2.00	B	Stud	4/SE	Sleeve	5/16 in	3 in	3 9/16 in	—	D109	**38N555**
1/15, 1/25	1,600	2	CCWSE	115V AC	2.9/2.2	B	Lug	—	Sleeve	5/16 in	2 in	4 3/4 in	—	D1161	**38N556**
1/15	1,550	1	CWSE	208-230V AC	1.10	B	Stud	4/BE	Sleeve	5/16 in	3 in	4 1/8 in	13 in	D1126	**32NA50** **
	1,550	1	CCWSE	115/208-230V AC	1.90/0.94-0.84	B	Ring	—	Ball	5/16 in	2 1/2 in	4 15/16 in	—	D671B	**32NA58**
Shaded Pole, Open Dripproof															
1/85	3,000	1	CWSE	115V AC	7.4/3.7-3.5	B	Face	4/BE	Ball	3 3/10 in	2 in	9 1/16 in	—	D202	**38N531**
1/40, 1/70	3,000	2	CW/CCW	115V AC	5.0	B	Ring/Stud	4/BE	Ball	1/4 in	1 7/8 in	7 11/16 in	—	D205	**38N571** †
1/15	3,000	1	CW/CCW	230V AC	1.1	B	Rigid Base	2/BE	Ball	1/4 in	1 5/8 in	3 3/4 in	—	D211	**38N554** †
1/8	3,000	1	CW/CCW	115V AC	3.1	B	Cradle Base	2/OLE	Ball	1/2 in	1 1/2 in	7 1/2 in	—	D201	**38N516**
Shaded Pole, Totally Enclosed															
1/60	3,000	1	CWSE	115V AC	0.75	B	Stud	4/BE	Sleeve	1/4 in	1 3/4 in	2 11/16 in	—	D402	**38N563**
	3,000	1	CCWSE	115V AC	0.75	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 7/8 in	—	D403	**38N564**
1/25	1,550	1	CWSE	115/230V AC	1.30/0.70	B	Stud	2/BE	Sleeve	5/16 in	2 1/2 in	3 11/16 in	—	D1164	**38N574**
1/20	3,000	1	CWSE	115/230V AC	1.10	B	Stud	4/SE	Sleeve	5/16 in	6 1/2 in	4 7/8 in	—	D214	**38N521**
	3,000	1	CCWSE	115/230V AC	1.10	B	Stud	4/SE	Ball	5/16 in	6 1/2 in	4 3/4 in	—	D215	**38N522**
	3,000	1	CWSE	115/230V AC	1.10	B	Stud	4/SE	Ball	5/16 in	6 1/2 in	4 7/8 in	—	D220	**38N523**
Shaded Pole, Totally Enclosed Air-Over															
1/100	1,550	1	CCWSE	115V AC	0.70	B	Stud	2/BE	Sleeve	1/4 in	1 1/4 in	3 1/16 in	8 in	D1109	**32NA46** #
	1,550	1	CWSE	115V AC	0.60	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	13 in	D540	**32NA53** #
	1,550	1	CCWSE	115V AC	0.60	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	13 in	D541	**32NA54** #
1/80	1,500	1	CWSE	115V AC	0.60	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	—	D122	**38N561**
	1,500	1	CCWSE	115V AC	0.60	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	—	D123	**38N562**
1/60	1,500	1	CWSE	115V AC	0.60	B	Stud	4/BE	Sleeve	5/16 in	2 1/4 in	3 3/16 in	—	D182	**38N565**
1/50	1,550	3	CWSE	115V AC	0.90	B	Stud	4/OLE	Sleeve	5/16 in	2 1/2 in	3 5/16 in	—	D1139	**38N534**
	1,550	1	CWSE	230V AC	0.40	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	3 1/16 in	—	D624	**38N570**
	1,500	1	CWSE	115V AC	0.80	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	3 in	—	D124	**38N566**
	1,500	1	CCWSE	115V AC	0.80	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	3 in	—	D125	**38N567**
	1,500	1	CCWSE	115V AC	0.90	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	—	D601	**38N568**
	1,500	1	CWSE	115V AC	0.90	B	Stud	4/BE	Sleeve	1/4 in	2 1/4 in	2 11/16 in	—	D602	**38N569**
1/35, 1/110	1,500	2	CWSE	115V AC	1.50/0.50	B	Stud	2/OSE	Sleeve	1/4 in	1 in	3 1/16 in	—	D534	**38N572**
1/30	1,550	1	CWSE	240V AC	0.60	B	Lug	4/BE	Ball	5/16 in	3 1/2 in	3 1/8 in	—	D1118	**38N540**
1/30, 1/65	1,500	2	CWSE	115V AC	1.00/0.70	B	Stud	4/BE	Sleeve	5/16 in	2 3/8 in	3 5/16 in	—	D137	**38N573** †
1/25	1,550	1	CWSE	115V AC	1.20	B	Stud	2/OSE	Sleeve	5/16 in	1 3/4 in	3 9/16 in	—	D184	**38N544** ‡
Permanent Split Capacitor, Open Air-Over															
1/12	1,550	1	CW/CCW	115/230V AC	1.10/0.60	B	Stud	4/BE	Sleeve	5/16 in	3 in	4 1/16 in	—	D1127	**38N557**
1/10	3,200	1	CW/CCW	208-230V AC	0.80	B	Stud	4/BE	Ball	5/16 in	3 1/4 in	4 3/4 in	—	D404	**38N558**
	3,200	1	CW/CCW	115V AC	1.00	B	Stud	4/BE	Ball	5/16 in	3 1/4 in	4 3/4 in	—	D405	**38N559**
	1,590	1	CW/CCW	230V AC	1.00	B	Stud	4/BE	Sleeve	5/16 in	3 7/8 in	5 1/8 in	—	D503	**38N560**
Permanent Split Capacitor, Totally Enclosed Air-Over															
1/20	3,200	1	CW/CCW	115V AC	0.80	B	Stud	4/SE	Ball	5/16 in	2 1/4 in	4 11/16 in	—	D218	**38N524**
1/8	3,000	1	CW/CCW	115V AC	1.10	B	Stud	4/SE	Ball	5/16 in	2 1/4 in	5 3/16 in	—	D219	**38N525**

*† Double shaft motor. ‡ Includes conduit box. # 2-prong non-polarized plug. ** Round 2-pin plug.*

Dayton

3.3"-Dia. Motor Mounting

BLOWER MOUNTING BRACKET SYSTEM

4UFA2—Aluminum stand-off bracket for motor-blower mounting. Kit 4UEZ9 required to mount to motor.

4UEZ9—Special end plate for D401 motor. For mounting to Comfort-Aire units.

Description	Item No.
Blower Mounting Bracket System	
Blower Mounting Bracket	**4UFA2**
Adapter Plate	**4UEZ9**
End Shield System	
3⁵⁄₁₆" Diameter End Shield	**4UFA1**
Mounting Rings, 1¼" I.D., 1¹³⁄₁₆" O.D., Qty. 2	**4UFA8**
Flange Kit	
Motor to Blower Flange	**4UFA4**
Halo Kit	
Triangular Bracket With Grommets	**4UFA3**

END SHIELD SYSTEM

4UFA1—For base mounting. Use with rubber mounting rings 4UFA8.

4UFA8—Henrite rubber mounting rings with steel band. Use with 4UFA1 end shield, cradle bases, and knife edge motor supports.

FLANGE KIT 4UFA4

Used to mount motors to blower housings.

HALO KIT 4UFA3

Motor mounting bracket converts 3.3"-dia. motor to triangular mounting pattern on 4⅜" bolt circle.

4UFA2

4UEZ9

4UFA1

4UFA8

4UFA4

4UFA3

Dayton

4.4"-Dia. Energy Efficient PSC Fan Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Capacitor included

Compact, single-speed PSC motors run at a higher power factor, with a lower starting current draw and lower running current draw than larger shaded pole motors. Also provide higher starting torque and smoother, quieter operation.

HP	Nameplate RPM	Voltage	Full Load Amps	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
Open Air-Over									
⅟₂₀	1,625	115V AC	1.20	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¼ in	**10J172**	
	1,625	208-230V AC	0.60/0.80	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¼ in	**10J175**	*
⅟₁₅	1,625	115V AC	1.60	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ⅜ in	**10J173**	
	1,625	208-230V AC	0.60/0.65	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ⅜ in	**10J176**	*
⅟₁₀	1,625	115V AC	1.80	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¾ in	**10J174**	
	1,625	208-230V AC	0.80/0.95	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¾ in	**10J177**	*
Totally Enclosed Air-Over									
⅟₂₀	1,625	115V AC	1.20	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ⅜ in	**10J178**	
	1,625	208-230V AC	0.60/0.80	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ⅜ in	**10J181**	*
⅟₁₅	1,625	115V AC	1.00	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ½ in	**10J179**	
	1,625	208-230V AC	0.55/0.58	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ½ in	**10J182**	*
⅟₁₀	1,625	115V AC	2.0	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¾ in	**10J180**	
	1,625	208-230V AC	0.86/0.94	2¾ in x 2¾ in	⅜ in	2 ½ in	3 ¾ in	**10J183**	*

** 60/50 Hz.*

Open Air-Over

Totally Enclosed Air-Over

Dayton

Attic Ventilator Replacement Motors

- Thermal protection: 1 shot
- Mounting: stud
- Body dia.: 5"

Single-speed motors feature stud mounting for many common installations. Suitable as a replacement for many residential attic fan ventilators including Broan.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
Permanent Split Capacitor, Open Air-Over Enclosure										
¼	1,500	CWSE	115V AC	3.0	4⅝ in	½ in	2 ⅝ in	4 ⅛ in	**10J153**	*
Shaded Pole, Open Air-Over Enclosure										
⅟₁₁	1,000	CWSE	120V AC	3.1	4⅝ in x 4⅝ in x 4⅝ in	½ in	2 ¾ in	2 ⁷⁄₁₆ in	**10J151**	
⅐	1,050	CWSE	120V AC	4.5	4⅝ in x 4⅝ in x 4⅝ in	½ in	2 ½ in	2 ¾ in	**10J152**	

**Capacitor included.*

10J151

Dayton

½"-and ⅝"-Dia. Anti-Windmilling Brakes

Use to stop windmilling of rooftop motors.

4UEZ3

Description	Item No.
For ½" dia. Shafts	**4UEZ3**
For ⅝" dia. Shafts	**4UEZ4**

Dayton

Shaft Adapter Bushing

⅜" I.D. x ½" O.D. bushing increases ⅜"-dia. shaft to ½" dia. Plated finish and hole for setscrew. 1⅛"L.

Item	Item No.
Sleeve Reducing Bushing	**6X452**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

1-Phase OEM Replacement Fan and Blower Motors

- For more specifications or cross reference, see Grainger.com®

45GL74

4UY64

4UY52

45GL69

48GN36

3RCV4

OEM Replacement Brand	HP	Nameplate RPM	Frame	Voltage	Mounting	Brand	Mfr. Model	Item No.	Capacitor Req.
Fan and Blower Motors									
ECM									
Hussmann	13W	1,725	Non-Standard	115V AC	Rear/Foot	Century	9211	**45GL74**	No
Permanent Split Capacitor									
Aaon	¼	3,200	48Y	460V AC	Band	Century	OAN470	**12N952**	2MDV4
	⅓	1,100	48Y	460V AC	Band	Century	OAN010	**12N953**	2MDV6
	¾	1,075	48Y	460V AC	Band	Century	OAN1076V1	**12N951**	2MDV8
	¾	1,075	48Y	208-230V AC	Band	Century	OAN460	**12N954**	2MDV9
	¾	1,075	48Y	460V AC	Band	Century	OAN1076	**12N950**	2MDV8
	¾	1,075	48Y	460V AC	Band	Century	OAN747	**12N955**	2MDV9
	¾	1,075	48Y	460V AC	Band	Century	OAN140	**12N956**	2MDV8
American Air Filter	⅛	700	48Y	115V AC	Cradle Base	Century	0547A	**2FGP6**	Included
	⅛	700	48	115V AC	Ring	Fasco	D827	**48GP10**	2MDV5
Arkia, SJC, Tappan	⅓	825	48Y	115V AC	Band	Century	OKB1038	**4VA14**	2MDV4
Carrier/BDP	1/10	1,100	48Y	208-230V AC	Stud	Century	OCA10106	**4UY86**	2MDV4
	⅙	1,500	48Y	208-230V AC	Stud	Century	OCA1014	**4UY87**	2MDV4
	¼	1,075	48Y	208-230V AC	Lug	Century	OCB1026A	**2GMR1**	2MDY5
	¼	1,075	48Y	230V AC	Band	Century	OCC1026A	**2GMR3**	2MDV4
	⅓	1,075	48Y	208-230V AC	Lug	Century	OCB1036A	**2GMR2**	2MDV4
	½	1,075	48Y	200-230/460V AC	Lug	Century	OCA1056	**3RCV2**	2MDY7
	½	1,075	48Y	208-230V AC	Band	Century	OCD1056	**4UY53**	2MDV6
	½	1,050	48Y	460V AC	Stud	Century	FEH1056S	**3RCV9**	2MDV7
Coleman	⅓	1,675/1,080	42	115V AC	Stud	Fasco	D1092	**46MV85**	2MDV6
Copeland	⅙	1,625	42Y	230V AC	Cradle Base	Century	OCP0251	**4UY90**	Included *
	⅙	1,625	48Y	208-230V AC	Stud	Century	174A	**2FGP5**	2MDV4
	⅓	1,625	48Y	208-230V AC	Cradle Base	Century	OCP0108	**2ZA22**	Included
First Company/ Summit	1/25	1,550	Non-Standard	115V AC	Stud	Dayton	41NL02	**41NL02**	Included
	1/20	1,625	Non-Standard	115V AC	Stud	Dayton	GGS_47400	**41NL07**	Included
	⅙, 1/12, 1/20	1,500	42Y	115V AC	Cradle Base	Century	955	**3RCW7**	Included
General Electric	⅛	1,550	42	230V AC	Ring	Century	492	**45GL43**	Included
Goodman	⅙	1,075	48Y	208-230V AC	Stud	Century	OGD1016	**3RCU8**	2MDV4
	¼	1,075	48Y	208-230V AC	Stud	Century	OGD1026	**3RCW5**	2MDV4
Heil Quaker	⅙	1,100	42Y	208-230V AC	Lug	Century	690	**45GL57**	2MDV4
Hill Refrigeration	⅓	1,625	48Y	208-230V AC	Cradle Base	Century	160A	**2FGP4**	Included
	1	1,075	48Y	208-230V AC	Cradle Base	Century	OHR1106	**4UY64**	2MDV9
Hussmann	⅕	1,075	48Y	208-230V AC	Stud	Century	OHS10206	**4UY80**	Included
Ice Cap	1/10	1,695	42	115V AC	Cradle Base	Century	638	**45GL50**	2MDV3
	1/10	1,500	42	208-230V AC	Cradle Base	Century	950	**45GL67**	2MDV3
IEC	1/30	1,075	42	265V AC	Lug	Fasco	D1053	**48GN21**	2MDV2
	1/30	1,100	42	115-127V AC	Cradle Base	Fasco	D1045	**48GN16**	Included
	1/20	1,075	42	115V AC	Lug	Genteq	2S002	**48HT70**	2MDV6
	1/20	1,075	42	277V AC	Lug	Fasco	D1048	**48GN19**	2MDV3
	1/12	1,375	42	115-127V AC	Cradle Base	Fasco	D1055	**48GN23**	Included
	⅙	1,450	42	115-127V AC	Cradle Base	Fasco	D1059	**48GN25**	Included
	¼	970	42	115V AC	Lug	Fasco	D1044	**48GN15**	2MDV8
Kramer Trenton	¼	1,075	48Y	115/208-230V AC	Cradle Base	Century	OKT1026	**4UY81**	Included *
	¾	1,075	56Y	208-230/460V AC	Cradle Base	Century	C662	**45GL98**	No
Lennox	⅓	1,075	48Y	115V AC	Ring	Century	OLE1036A	**2GMR4**	2MDV4
	⅓	825	48Y	230V AC	Ring	Century	OLE1038V1	**4UY67**	2MDV3
	¾ to ⅕	1,075	48Y	115V AC	Ring	Century	9405A	**45GL96**	2MEE2
	¾ to ⅓	1,075	48Y	208-230V AC	Cradle Base	Century	9406A	**45GL97**	2MDV7
	1	1,075	48Y	230V AC	Band	Century	OLE1106	**4UY51**	2MDW2
	1	1,075	48Y	460V AC	Band	Century	OLE1106H	**4UY52**	2MDV9
Liebert	¾	1,100	56Z	208-230/460V AC	Cradle Base	Century	C663	**45GL99**	No
McQuay	1/25	1,200	3.3 in	115V AC	Ring	Fasco	D1144	**48GN52**	2MDV3
Nordyne	¼	1,050	42	115V AC	Lug	Century	942	**45GL65**	2MDV6
Penn Ventilator	⅐	1,550/1,300/1,050	42Y	115V AC	Lug	Century	OPV747	**12N958**	Included
	⅙	1,550/1,300/1,050	42Y	115V AC	Lug	Century	OPV748	**12N957**	Included
Rheem/Ruud	⅛	825	48Y	208-230V AC	Stud	Century	ORM1008	**4UY91**	2MDV4
	⅙	1,075	48Y	208-230V AC	Stud	Century	ORM1016V1	**4UY74**	2MDV2
	⅕	1,075	48Y	208-230V AC	Stud	Century	ORM10206V1	**4UY93**	2MDV2
	⅓ to ⅕	1,075	48	208-230V AC	Stud	Century	FE6000F	**45GM02**	2MDV6
	½	1,075	48Y	208-230V AC	Ring	Century	FD6000	**45GM01**	2MDV7
	¾	1,075	48Y	115V AC	Band	Century	ORM1076	**4VA34**	2MDV9
Singer	⅛ to 1/14	1,075	42	277V AC	Ring	Century	595	**45GL47**	2MDV4
Trane	1/30	1,075	42	115V AC	Cradle Base	Century	641	**45GL51**	Included
	1/30 to 1/200	1,100	42	115V AC	Cradle Base	Century	952	**45GL68**	Included
	1/30 to 1/200	1,100	42	115V AC	Cradle Base	Century	954	**45GL70**	Included
	1/20 to 1/120	1,100	42	115V AC	Cradle Base	Century	9608	**45GL78**	Included
	1/15 to 1/60	1,100	42Y	115V AC	Cradle Base	Century	953	**45GL69**	Included
	⅛ to 1/30	1,500	42	115V AC	Cradle Base	Century	945	**45GL66**	Included
	¼	1,460	42	277V AC	Cradle Base	Century	642	**45GL52**	Included
Westinghouse	⅓	1,625	42Y	208-230V AC	Cradle Base	Century	OWW4517	**45GM13**	2MDV5
Whalen Co.	1/20	1,050	42	115V AC	Ring	Century	485	**45GL42**	2MDV3
Shaded Pole									
Camco	1/11, 1/25, 1/70	1,500	4.4 in	115V AC	Stud	Fasco	D119	**48GN77**	No
Heatcraft	1/20	1,300	3.3 in	208-230V AC	Stud	Fasco	D1132	**46MV80**	No
	1/20	1,550	3.3 in	115V AC	Stud	Fasco	D1133	**46MV79**	No
Jenn Air	1/10	1,550	4.4 in	115V AC	Stud	Century	781	**45GL62**	No
Loren Cook	1/65	1,590	3.3 in	115V AC	Stud	Fasco	D1117	**48GN42**	No
	1/50	1,550/900	3.3 in	115V AC	Stud	Fasco	D1100	**48GN36**	No
Tecumseh	1/15	1,550	3.3 in	460V AC	Stud	Fasco	D475	**48GP05**	No
Thermal Transfer	¼	1,600	4.4 in	115V AC	Cradle Base	Fasco	D1006	**48GN04**	No

OEM Replacement Brand	HP	Nameplate RPM	Frame	Voltage	Mounting	Mfr. Model	Item No.	Capacitor Req.
Room Air Conditioner, Evaporative Cooler and Other Shaft-Mounted Fan and Blower Applications								
Permanent Split Capacitor								
First Company/Summit	¼	1,625	42Y	208-230V AC	Ring	OFC1024	**3RCV8**	Included
Trane	¼	825	48Y	200-230V AC	Stud	OTR1028	**4UY97**	2MDV8
	⅕	1,075	48Y	115V AC	Ring	OTR10206	**4VA27**	2MDV7
	⅛	1,650	48Y	200-230V AC	Stud	OTR1004	**4UY96**	2MDV3
Unilux	⅛, 1/10, 1/15, 1/20, 1/30	1,000	42	115V AC	Lug	799	**3RCV4**	Included
York	1	1,075	48Y	115V AC	Band	OYK1106	**4UY98**	2MDY9
	¼	850	48Y	208-230V AC	Stud	OYK1028	**4UY50**	2MDV4 *
Shaded Pole								
Tecumseh	1/15	1,500	42Y	230V AC	Face	OTC6001	**3RCV3**	No *
	1/20	1,500	42Y	230V AC	Face	OTC6004	**3RCU9**	No *

** 60/50 Hz.*

Century®

Permanent Split Capacitor and 3-Phase Transformer Cooling Fan Motors

2WCE6

4UY24

- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- 60/50 Hz
- Service factor: 1.0 (2WCE6); 1.5 (4UY24)
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 65°C
- Duty: continuous
- Shaft orientation: all-angle
- Stud pattern: 3⅝" x 3⅝" (PSC); 4⅛" x 4⅛" (3-Phase)

Specifically designed for use on outdoor transformer cooling fans. High-efficiency motors with stainless steel shaft.

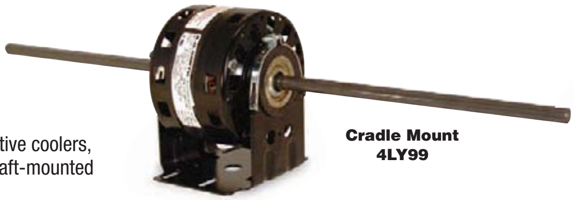
HP	Nameplate RPM	RPM @ 50 Hz	Frame	Voltage	Full Load Amps	Mounting	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Permanent Split Capacitor, Capacitor Included												
⅓	1,075	900	48Y	115/200-230V AC	6.4/3.6-3.1	Rigid Base	5 ⅝ in	½ in	2 ½ in	7 in	C723V1A	**2WCE6**
3-Phase												
⅓	1,140	950	56	200-230/460V AC	1.90-1.80/0.90	Rigid Base	6 ⅝ in	⅝ in	1 15/16 in	10 ¼ in	H1040	**4UY24**

Century®

Shaded Pole Room Air Conditioner Motors

Ring Mount
3RCW6

Ring/Stud Mount
4UU45



Cradle Mount
4LY99

- Body Dia.: 5"
- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve
- Max. ambient temp.: 40°C
- Duty: continuous

For room air conditioners, evaporative coolers, remote fan coil units, and other shaft-mounted fan and blower applications.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
2 Speed, 42 Frame													
¼, ⅛	1,625	CCWLE	208-230V AC	2.00	Ring	4 5/16 in	2 ½ in	—	½ in	7 ¾ in	4 5/16 in	747	**3RCW6**
2 Speed, 42Y Frame													
1/10	1,050	CCWLE	115V AC	3.1	Cradle Base	4 1/16 in	2 ½ in	—	½ in	9 13/16 in	4 1/16 in	DBL64062	**4LY99**
3 Speed, 42Y Frame													
1/10	1,075	CW/CCW	230V AC	0.70	Ring	4 13/16 in	2 ½ in	2 5/16 in x 4 in	½ in	5 13/16 in	5 3/16 in	9711	**4UY15**
1/10, 1/15, 1/20	1,550	CCWLE	115V AC	3.5,1.7,1.4	Cradle Base	1 11/16 x 3 ½ in	—	—	½ in	9 5/16 in	4 1/16 in	DBL4404	**3M721**
1/10	1,625	CW/CCW	208-230V AC	0.84	Ring	4 13/16 in	2 ½ in	3¼ in x 3¼ in	½ in	5 13/16 in	5 3/16 in	9710	**4UY14**
4 Speed, 42Y Frame													
1/10, 1/15, 1/20, 1/25	1,050	CCWLE	277V AC	1.30, 0.80, 0.70, 0.60	Cradle Base	4 1/16 in	2 ½ in	—	½ in	9 19/64 in	4 7/16 in	7DB6408	**3M864**
	1,050	CCWLE	115V AC	3.4, 2.00, 1.70, 1.50	Cradle Base	1 11/16 x 3 ½ in	—	—	½ in	10 ¼ in	4 1/16 in	DBL6406	**3M720**
1/10	1,550	CCWLE	115V AC	3.1	Ring/Stud	4 1/16 in	2 ½ in	2¼ in x 3⅞ in	½ in	9 5/16 in	4 1/16 in	DBL4410	**4UU44**
	1,550	CCWLE	115V AC	3.1	Ring/Stud	4 1/16 in	2 ½ in	2¼ in x 3⅞ in	⅜ in	9 5/16 in	4 1/16 in	DBL4411	**4UU45**
⅙	1,550	CCWLE	115V AC	4.0	Ring	4 9/16 in	2 ½ in	3⅛ in x 3⅛ in	½ in	8 ½ in	4 9/16 in	DCL4423	**4UU51**
5 Speed, 42Y Frame													
1/10, 1/20, 1/30, 1/40, 1/70	1,050	CWLE	115V AC	3.0	Cradle Base	4 1/16 in	2 ½ in	—	½ in	10 11/16 in	4 7/16 in	89	**4MA19** *

*** 60/50 Hz.***

Century®

ECM Fan Coil Motor

- Speeds: 3
- 42 frame (5" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Mounting: cradle base
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Suitable as a replacement for older and less energy efficient PSC motors and for use in air conditioners, fan coil units, and blower applications.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1/10	1,100/900/700	CWLE	120V AC	1.06	½ in	9 5/16 in	3 13/16 in	CS89	**10C902**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Ring/Stud Mount 45EX57

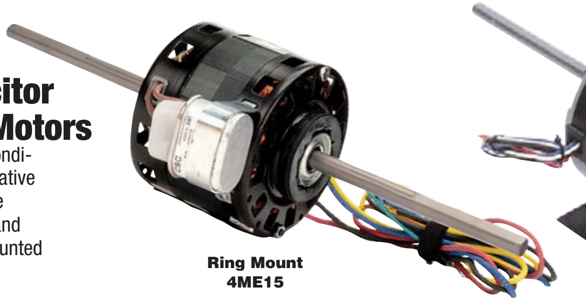
Band Mount 4MB96

Dayton Century®

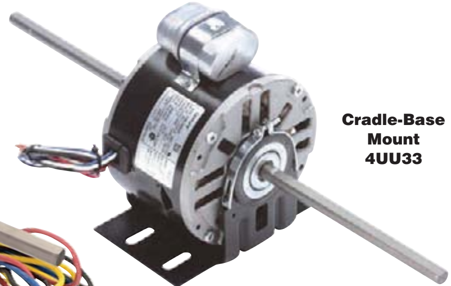
Permanent Split Capacitor Room Air Conditioner Motors

- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve, except 45EX57 to 45EX60, 4MB88 are ball/sleeve
- Duty: continuous

For room air conditioners, evaporative coolers, remote fan coil units, and other shaft-mounted fan and blower applications.



Ring Mount 4ME15



Cradle-Base Mount 4UU33

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Brand	Item No.		Capacitor Req.
42Y Frame, 4 7/8 in Body Dia., 4 Speed																
1/10	1,075	CW/CCW	115V AC	1.70	Cradle Base	5 in	2 1/2 in	1/2 in	10 in	5 3/8 in	60 °C	5WJC1	Dayton	**5WJC1**		Included
42Y Frame, 4 15/16 in Body Dia., 3 Speed																
1/10	1,550	CW/CCW	115V AC	1.43	Ring/Stud	4 9/16 in	2 1/2 in	1/2 in	6 3/4 in	4 15/16 in	40 °C	45EX57	Dayton	**45EX57**		Included
	1,550	CW/CCW	115V AC	1.50	Stud	4 1/2 in	2 1/2 in	3/8 in	6 3/4 in	4 29/32 in	40 °C	45EX60	Dayton	**45EX60**		Included
42Y Frame, 4 15/16 in Body Dia., 4 Speed																
1/6	1,550	CW/CCW	115V AC	2.5	Ring/Stud	5 in	2 1/2 in	1/2 in	6 3/4 in	5 7/16 in	40 °C	45EX59	Dayton	**45EX59**		Included
1/8	1,550	CW/CCW	115V AC	1.90	Ring/Stud	4 7/16 in	2 1/2 in	1/2 in	6 3/4 in	4 15/16 in	40 °C	45EX58	Dayton	**45EX58**		Included
42Y Frame, 5 in Body Dia., 1 Speed																
1/5	1,075	CWLE	208-230V AC	1.40	Band	—	—	1/2 in	6 1/4 in	3 11/16 in	40 °C	OYK6518	Century	**4MB96**		2MDV4
1/10	1,500	CWLE	208-230V AC	0.70	Cradle Base	4 1/4 in	2 1/2 in	1/2 in	9 51/64 in	4 11/16 in	40 °C	9652	Century	**4UU18**		Included
42Y Frame, 5 in Body Dia., 3 Speed																
1/5	1,550	CCWLE	208-230V AC	1.80	Ring	—	—	1/2 in	6 5/8 in	3 13/16 in	40 °C	DCA4522	Century	**4ME15**		Included
1/5, 1/8, 1/10	1,625	CCWLE	208-230V AC	1.00, 0.76, 0.61	Cradle Base	5 in	2 1/2 in	1/2 in	9 3/16 in	4 15/16 in	40 °C	467A	Century	**4UU24**		Included
1/8	1,075	CCWLE	115V AC	2.00	Cradle Base	4 5/16 in	2 1/2 in	1/2 in	9 13/16 in	4 5/16 in	40 °C	DBL6503	Century	**4UU21**		Included
1/8, 1/12, 1/14	1,075	CCWLE	277V AC	0.83	Ring	4 in	2 1/2 in	1/2 in	8 1/2 in	4 7/16 in	40 °C	596	Century	**4UB79**		2MDV4
1/8, 1/20, 1/30	1,500	CCWLE	115V AC	1.20, 0.70, 0.40	Cradle Base	4 1/2 in	2 1/2 in	1/2 in	9 51/64 in	4 15/16 in	40 °C	945A	Century	**4UU20**		Included
1/10, 1/12, 1/15	1,625	CCWLE	115V AC	1.30/1.00/0.70	Cradle Base	4 1/16 in	2 1/2 in	1/2 in	9 5/16 in	4 1/16 in	40 °C	DBL4500V1	Century	**4UU16**		Included
42Y Frame, 5 in Body Dia., 4 Speed																
1/6	1,625	CW/CCW	115V AC	2.7	Cradle Base	4 11/16 in	2 1/2 in	1/2 in	10 in	5 1/8 in	60 °C	5WJC3	Dayton	**5WJC3**		Included
1/6, 1/8, 1/10, 1/15	1,625	CCWLE	115V AC	2.2, 1.60, 1.10, 0.90	Cradle Base	5 in	2 1/2 in	1/2 in	9 51/64 in	5 7/16 in	40 °C	9476A	Century	**4UU22**		Included
1/8	1,075	CW/CCW	277V AC	0.72	Cradle Base	4 11/16 in	2 1/2 in	1/2 in	8 1/2 in	5 1/8 in	60 °C	5WJC2	Dayton	**5WJC2**		Included
1/10	1,075	CWLE	115V AC	1.70	Cradle Base	4 in	—	1/2 in	10 5/8 in	3 9/16 in	40 °C	362A	Century	**4MB94**		2MDV4
	1,050	CW/CCW	115V AC	1.62	Cradle Base	4 1/4 in	2 1/2 in	3/8 in	10 1/2 in	4 5/8 in	60 °C	5WJC0	Dayton	**5WJC0**		Included
	1,050	CW/CCW	277V AC	0.70	Ring	4 1/4 in	2 1/2 in	1/2 in	8 1/2 in	4 5/8 in	60 °C	5WJA9	Dayton	**5WJA9**		Included
1/10, 1/12, 1/15, 1/20	1,075	CCWLE	115V AC	1.70, 1.60, 0.90, 0.80	Cradle Base	4 1/16 in	2 1/2 in	1/2 in	9 5/16 in	4 3/8 in	40 °C	DBL6501V1	Century	**4UU17**		Included
1/10, 1/15, 1/20, 1/25	1,075	CCWLE	208-230V AC	0.70, 0.50, 0.40, 0.30	Cradle Base	4 1/16 in	2 1/2 in	1/2 in	9 5/16 in	4 1/16 in	40 °C	DB6502V1	Century	**4UU19**		Included
1/15	1,050	CW/CCW	115V AC	1.40	Cradle Base	4 3/4 in	2 1/2 in	1/2 in	10 1/2 in	5 5/32 in	60 °C	5WJA8	Dayton	**5WJA8**		Included
1/15, 1/20, 1/25, 1/35	1,075	CCWLE	115V AC	1.20, 0.80, 0.70, 0.60	Cradle Base	4 1/4 in	2 1/2 in	1/2 in	11 in	4 3/4 in	40 °C	9474	Century	**4MA85**		2MDV4
1/20	1,075	CW/CCW	115V AC	0.90	Cradle Base	4 15/16 in	2 1/2 in	1/2 in	10 1/16 in	5 3/8 in	60 °C	5WJA7	Dayton	**5WJA7**		Included
48Y Frame, 5 5/8 in Body Dia., 2 Speed																
1/4	1,625	CCWLE	115V AC	2.00	Cradle Base	4 5/8 in	2 1/2 in	1/2 in	7 1/2 in	4 9/16 in	40 °C	DSB1024	Century	**4UU28**		Included
	1,625	CCWLE	230V AC	1.00	Cradle Base	4 5/8 in	2 1/2 in	1/2 in	7 1/2 in	4 11/16 in	40 °C	DSB1024H	Century	**4UU29**		Included
1/6	1,625	CW/CCW	115V AC	2.00	Cradle Base	4 11/16 in	2 1/2 in	1/2 in	7 1/2 in	4 11/16 in	40 °C	DSB1016R	Century	**4UU30**		Included
48Y Frame, 5 5/8 in Body Dia., 3 Speed																
1/2	1,075	CCWLE	115V AC	5.0	Ring/Stud	—	2 1/4 in	1/2 in	7 25/64 in	5 7/8 in	40 °C	RAL1056	Century	**4MA77**	*	2MDV7
	1,625	CCWLE	115V AC	6.0	Ring/Stud	—	2 1/4 in	1/2 in	7 19/32 in	5 5/8 in	40 °C	RAL1054	Century	**4MB15**		2MDV4
	1,075	CCWLE	208-230V AC	2.1	Ring/Stud	—	2 1/4 in	1/2 in	7 19/32 in	5 5/8 in	60 °C	RA1056	Century	**4MA65**		2MDV6
	1,625	CCWLE	208-230V AC	3.0	Ring/Stud	—	2 1/4 in	1/2 in	7 19/32 in	5 5/8 in	40 °C	RA1054	Century	**4MA67**	*	2MDV4
1/3	1,075	CCWLE	115V AC	5.0	Ring/Stud	—	2 1/4 in	1/2 in	7 57/64 in	5 3/8 in	40 °C	RAL1036	Century	**4MA59**		2MDV4
	1,075	CCWLE	208-230V AC	1.09	Ring/Stud	—	2 1/4 in	1/2 in	8 3/16 in	5 1/2 in	60 °C	RA1036	Century	**4MA61**		2MDV4
	1,625	CCWLE	208-230V AC	2.00	Ring/Stud	—	2 1/4 in	1/2 in	7 25/64 in	5 1/2 in	50 °C	RA1034	Century	**4MA63**		2MDV4
1/4	1,075	CCWLE	115V AC	5.0	Ring/Stud	—	2 1/4 in	1/2 in	9 7/8 in	4 3/4 in	40 °C	RAL1026A	Century	**4MA79**		2MDV4
	1,625	CCWLE	115V AC	3.0	Ring/Stud	—	2 1/4 in	1/2 in	7 19/32 in	4 3/8 in	40 °C	RAL1024	Century	**4MA99**		2MDV4
	1,075	CCWLE	208-230V AC	1.05	Ring/Stud	—	2 1/4 in	1/2 in	7 57/64 in	4 5/8 in	60 °C	RA1026	Century	**4MA57**		2MDV4
1/6	1,075	CCWLE	115V AC	2.0	Ring/Stud	—	2 1/4 in	1/2 in	8 3/32 in	4 3/8 in	40 °C	RAL1016	Century	**4MA53**	*	2MDV4
	1,075	CCWLE	115V AC	3.0	Cradle Base	4 3/8 in	2 1/2 in	1/2 in	7 1/2 in	4 7/16 in	40 °C	DSB1016	Century	**4UU33**		Included
	1,075	CCWLE	208-230V AC	0.96	Ring/Stud	—	2 1/4 in	1/2 in	8 19/64 in	4 1/4 in	40 °C	RA1016	Century	**4MA55**		2MDV4
1/8	1,075	CCWLE	115V AC	2.00	Ring/Stud	—	2 1/4 in	1/2 in	8 19/64 in	4 1/4 in	60 °C	RAL1006	Century	**4MA51**		2MDV4
1/15	1,075	CCWLE	115V AC	0.63	Ring	4 3/16 in	2 1/2 in	1/2 in	5 57/64 in	4 5/8 in	40 °C	RAL10156	Century	**4UB73**	†	2MDV4
3/4	1,075	CCWLE	208-230V AC	3.1	Ring/Stud	—	2 1/4 in	1/2 in	7 25/64 in	5 7/8 in	40 °C	RA1076	Century	**4MA69**		2MDV6
48Y Frame, 5 5/8 in Body Dia., 4 Speed																
1/2	1,075	CW/CCW	115V AC	6.5	Cradle Base	5 15/32 in	2 1/2 in	1/2 in	8 1/2 in	5 15/16 in	60 °C	5WJC5	Dayton	**5WJC5**		Included
1/4	1,625	CW/CCW	115V AC	3.4	Cradle Base	5 in	2 1/2 in	1/2 in	8 1/2 in	3 5/8 in	60 °C	5WJC4	Dayton	**5WJC4**		Included
48YZ Frame, 5 5/8 in Body Dia., 2 Speed																
1/4	1,075	CCWLE	115V AC	4.0	Cradle Base	4 1/2 in	2 1/2 in	1/2 in	7 1/2 in	4 7/16 in	40 °C	DSB1026	Century	**4UU26**		Included
56Y Frame, 6.5 in Body Dia., 1 Speed																
3/4	1,075	CCW	208-230V AC	6.0	Cradle Base	—	—	5/8 in	7 1/2 in	9 1/2 in	40 °C	C024	Century	**4MB88**		2MDV7

** 60/50 Hz. † Capacitor selection: single blower wheel/2MDV2, double blower wheel/2MDV3, triple blower wheel/2MDV4.*

Band Mount

Ring Mount

Stud Mount

T-Flex Mount

Century®

Shaded Pole Direct-Drive Blower/Fan Motors

- Enclosure: open air-over, except 4UU91 is totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: sleeve
- Max. ambient temp.: 40°C
- Duty: continuous air-over

These motors are suitable for unit heaters, condensers, furnace blowers, air circulators, fans, and a wide range of other shaft-mounted fan and blower equipment. 4UU91 has a 5.0 cu.-in. junction box. 4KA23 and 4KA22 are used in Coleman furnaces.

Motor Mounting Type	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Stud Pattern	Shaft Dia.	Shaft Length	Mfr. Model	Item No.	
1 Speed, 42Y Frame, 5 in Body Dia.												
Band	1/12	1,050	CCWLE	115V AC	3.1	—	—	½ in	3 in	BL6409	**4KA23**	
	⅙	1,000	CCWLE	115V AC	7.8	—	—	½ in	3 in	BL6407	**4KA22**	
Ring	⅛	1,050	CCWLE	115V AC	5.0	4 1/16 in	2¼ in x 3⅞ in	½ in	5 ½ in	BLR6403	**4UU99**	
	⅙	1,050	CCWLE	115V AC	5.1	4 9/16 in	2¼ in x 3⅞ in	½ in	2 11/16 in	BLR6402	**4UU97**	
Stud	1/15	1,050	CCWLE	115V AC	2.1	—	2¼ in x 3⅞ in	⅜ in	1 ⅞ in	BLR6407	**4UU94**	*
	1/15	1,050	CCWLE	115V AC	3.0	—	2¼ in x 3⅞ in	½ in	1 ¾ in	U6433	**4UU91**	
	⅒	1,050	CWSE	115/208-230V AC	4.0/2.00	4 9/16 in	2½ in x 2½ in	⅜ in	2 ¼ in	RF6402	**4UU74**	
	⅒	1,050	CCWLE	115/208-230V AC	4.0/2.00	4 9/16 in	2½ in x 2½ in	⅜ in	2 ¼ in	RF6403	**4UU76**	
	⅒	1,050	CCWLE	115V AC	4.0	—	4 in x 2 5/16 in	⅜ in	1 ⅞ in	BLR6406V1	**33PT26**	
	⅒	1,550	CWSE	115/208-230V AC	4.0/2.00	4 9/16 in	2½ in x 2½ in	⅜ in	2 ¼ in	RF4400	**4UU75**	
	⅒	1,550	CCWSE	115/208-230V AC	4.0/2.00	4 9/16 in	2½ in x 2½ in	⅜ in	2 ¼ in	RF4401	**4UU77**	
	¼	1,050	CCWLE	115V AC	9.0	5 1/16 in	2¼ in x 3⅞ in	½ in	4 ½ in	BLR640S	**4UU81**	
T-Flex	⅕	1,050	CCWLE	115V AC	6.1	—	—	½ in	3 ¾ in	ONR6026	**4MB32**	
	¼	1,050	CCWLE	115V AC	8.1	—	—	½ in	4 ½ in	BL6531	**4MB34**	
3 Speed, 42Y Frame, 5 in Body Dia.												
Stud	¼	1,050	CCWLE	115V AC	8.0	5 1/16 in	2¼ in x 3⅞ in	½ in	4 ½ in	BLR6404	**4UU80**	

Motor Mounting Type	HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Bolt Circle Dia.	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
1 Speed, 42Y Frame, 5 in Body Dia., 3 Mounting Studs											
Ring	⅕	1,050	CCWLE	115V AC	6.0	4 1/16 in	4 7/16 in	½ in	5 ½ in	BL6413	**4KA46**
	⅛	1,050	CCWLE	115V AC	5.0	4 1/16 in	4 7/16 in	½ in	5 ½ in	BL6410	**4KA21**
3 Speed, 42Y Frame, 5 in Body Dia., 3 Mounting Studs											
Ring	⅕, ⅛, ⅒	1,050	CCWLE	208-230V AC	3.2, 2.1, 1.50	4 9/16 in	4 7/16 in	½ in	5 ½ in	B6415	**4KA42**
4 Speed, 42Y Frame, 5 in Body Dia., 3 Mounting Studs											
Ring	⅕	1,050	CCWLE	115V AC	7.0	4 9/16 in	4 7/16 in	½ in	2 11/16 in	BL6416	**4KA40**

***** *Studs located on opposite shaft end of motor.*

Century®

PSC Cradle/Stud-Mount Direct-Drive Motors

2FGR2

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Energy-efficient motors are supplied with mounted capacitor. Terminal board on all motors. For use in exhaust fans, air circulators, and other equipment operating in dusty, dirty, noncombustible environments.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Ring to Ring Center	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Stud Pattern	Mfr. Model	Item No.
1 Speed													
¼	1,100	48Z	CW/CCW	115/230V AC	4.0/2.00	6 ½ in	5 ⅝ in	½ in	3 ¼ in	7 in	3⅝ x 3⅝"	C045A	**2FGR2**
⅓	1,100	48Z	CW/CCW	115/230V AC	4.5/2.3	6 ¾ in	5 ⅝ in	½ in	3 ¼ in	7 ¼ in	3⅝ x 3⅝"	C046A	**2FGP8**
½	1,100	48Z	CW/CCW	115/230V AC	6.5/3.3	7 ⅞ in	5 ⅝ in	½ in	3 ⅛ in	8 ⅜ in	3⅝ x 3⅝"	C047A	**2FGP9**
¾	1,075	56	CCWLE	115/230V AC	7.3/3.7	8 ⅞ in	6 ½ in	⅝ in	2 in	9 5/16 in	4⅛ x 4⅛"	C060	**4UB77**
2 Speed													
¼	1,100	48Z	CW/CCW	115V AC	3.0	7 3/16 in	5 ⅝ in	½ in	3 in	7 ⅝ in	3⅝ x 3⅝"	C059A	**4VYZ4**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

6TWK6

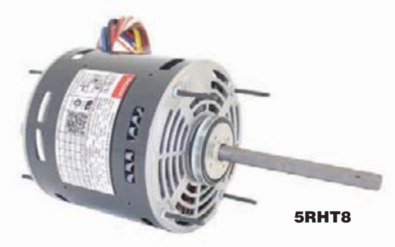
MasterFit Pro Direct-Drive Blower Motors

Century®

- NEMA frame: 48Y (5¾" body dia.)
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: ring/stud/band/hole
- Duty: continuous
- Shaft orientation: horizontal
- Capacitor included

Replace Emerson, Fasco, Genteq, Marathon and Protech fan and blower motors in residential and light commercial HVAC systems. Motors have predrilled holes for Rheem mounting. Include capacitor and reversing plug.

HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
4-Speed, Open Air-Over										
½ to ⅙	1,075	115V AC	7.0	Sleeve	½ in	5 in	5 ⅞ in	40 °C	FDL6001A	**6TWK6**
½ to ⅙	1,075	208-230V AC	3.1	Sleeve	½ in	5 in	5 ⅞ in	40 °C	FD6000A	**6TWK7**
¾ to ⅕	1,075	115V AC	9.0	Ball	½ in	5 in	5 ¾ in	40 °C	FDL6002A	**6TWK8**
¾ to ⅕	1,075	208-230V AC	4.0	Ball	½ in	5 in	5 13⁄16 in	40 °C	FD6001A	**6TWK9**



5RHT8

Multi-HP Permanent Split Capacitor Direct-Drive/Fan Multi-Speed Motors

Dayton®

- NEMA frame: 48YZ (5⅝" body dia.)
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Duty: continuous
- Shaft orientation: all-angle
- Refer to the Motor Nameplate for correct capacitor value

Energy-efficient motors operate at multiple horsepowers, reducing inventory needs and expense. Feature quick-change reversing plug.

HP	Nameplate RPM	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.	Capacitor Selection
4-Speed, Open Air-Over, Stud Mounting										
⅓ to ⅙	825	208-230V AC	2.2-1.00	Ball	½ in	5 in	6 ⅛ in	60 °C	**5RHU0**	2MDV6
½ to ⅕	825	208-230V AC	3.9-1.4	Ball	½ in	6 in	6 ⅝ in	60 °C	**5RHU1**	2MDV7
¾ to ⅕	1,075	115V AC	8.7-2.4	Ball	½ in	5 in	5 ⅞ in	60 °C	**5RHT8**	2MDV6 for ⅕ to ⅓ HP Setup, 2MDV7 for ½ & ¾ HP Setup
¾ to ⅕	1,075	208-230V AC	4.1-1.70	Ball	½ in	6 in	6 ¼ in	60 °C	**5RHT9**	2MDV6 for ⅕ to ⅓ HP Setup, 2MDV7 for ½ & ¾ HP Setup

20JP30

ECM Evergreen Direct-Drive Blower Motors

genteq

- Thermal protection: electronic
- Service factor: 1.0
- Insulation: Class B
- Mounting: band
- Duty: continuous
- Shaft orientation: horizontal
- Replacement for X–13 ECM motors

Replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor. Maintain ECM-level efficiency up to 80%. Features Soft Start and Off Ramp for quiet operation.

HP	Nameplate RPM	Motor Shaft Rotation	Frame	Body Dia.	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
CM Series, 5-Speed, Open Air-Over, Face Mounting													
½	1,075	CW/CCW	48	5 ⅝ in	208-230/277V AC	4.1/3.6	Ball	½ in	3 15⁄16 in	5 ¾ in	40 °C	6705	**12V753**
⅓	1,075	CW/CCW	48	5 ⅝ in	208-230/277V AC	2.8/2.6	Ball	½ in	3 15⁄16 in	5 ¼ in	40 °C	6703	**12V752**
¾	1,075	CW/CCW	48	5 ⅝ in	208-230/277V AC	6.0/4.9	Ball	½ in	3 15⁄16 in	6 ½ in	40 °C	6707	**12V754**
1	1,075	CWSE	48	5 ⅝ in	460V AC	4.0	Ball	½ in	3 15⁄16 in	8 ⅛ in	40 °C	6410	**48ZJ37**
EM Series, 5-Speed, Open Air-Over, Face Mounting													
½	1,075	CW/CCW	48	5 ⅝ in	115V AC	6.8	Ball	½ in	4 15⁄16 in	5 ¾ in	40 °C	6105E	**20JP29**
½	1,075	CW/CCW	48	5 ⅝ in	208-230V AC	4.0	Ball	½ in	4 15⁄16 in	5 ¾ in	40 °C	6205E	**20JP30**
⅓	1,075	CW/CCW	48	5 ⅝ in	115V AC	4.8	Ball	½ in	4 15⁄16 in	5 ¼ in	40 °C	6103E	**20JP27**
⅓	1,075	CW/CCW	48	5 ⅝ in	208-230V AC	2.1	Ball	½ in	4 15⁄16 in	5 ¼ in	40 °C	6203E	**20JP28**
¾	1,075	CW/CCW	48	5 ⅝ in	115V AC	8.4	Ball	½ in	4 15⁄16 in	6 ½ in	40 °C	6107E	**20JP31**
¾	1,075	CW/CCW	48	5 ⅝ in	208-230V AC	6.0	Ball	½ in	4 15⁄16 in	6 ½ in	40 °C	6207E	**20JP32**
1	1,075	CW/CCW	48	5 ⅝ in	115V AC	10.9	Ball	½ in	4 15⁄16 in	7 ½ in	40 °C	6110E	**20JP33**
1	1,075	CW/CCW	48	5 ⅝ in	208-230V AC	7.1	Ball	½ in	4 15⁄16 in	7 ¼ in	40 °C	6210E	**20JP34**

54ZX59

ECM Direct-Drive Blower Motors

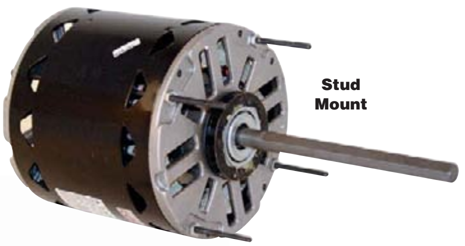
US MOTORS

- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Duty: continuous

These HVAC AC motors feature a built-in microprocessor controller that allows users to control the motor speed. They are more energy efficient than general purpose AC motors and can replace direct-drive motors in fans and blowers.

HP	Nameplate RPM	Motor Shaft Rotation	Frame	Body Dia.	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.
1-Speed, Open Air-Over, Band Mounting													
½, ⅓	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	6.3/4.0-3.8, 6.4/4.0-3.8	Ball	½ in	5 in	6 ¼ in	40 °C	5632	**54ZX59**
½, ⅓	1,800	CCWLE	48Y	5 ⅞ in	120/240V AC	5.6/3.2	Ball	½ in	4 ½ in	5 ¾ in	60 °C	8431UI	**54ZX73**
½, ⅓	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	6.3/4.0-3.8, 6.4/4.0-3.8	Ball	½ in	5 in	6 ¼ in	40 °C	6633	**54ZX62**
½, ⅓	1,075	CW/CCW	48Y	5.7 in	115/208-230V AC	6.4/4.0-3.8	Ball	½ in	5 in	6 in	40 °C	5862	**54ZX76**
¾	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	9.3/5.8-5.4	Ball	½ in	5 in	6 ⅝ in	40 °C	5642	**54ZX58**
¾	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	9.3/5.8-5.4	Ball	½ in	5 in	6 ⅝ in	40 °C	6643	**54ZX61**
¾, ⅓	1,075	CW/CCW	48Y	5.7 in	115/208-230V AC	9.3/5.9-5.5, 9.4/5.9-5.5	Ball	½ in	5 in	6 ⅛ in	40 °C	5861	**54ZX77**
1	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	12.3/7.7-7.2, 12.4/7.8-7.2	Ball	½ in	5 in	7 in	40 °C	5652	**54ZX57**
1, ¾	1,800	CCWLE	48Y	5 ⅞ in	120/208-240V AC	12.4/8.1-7.2	Ball	½ in	4 ½ in	7 ¼ in	60 °C	8451UI	**54ZX72**
1, ¾	1,250	CWLE	48Y	5 ⅞ in	120/208-240V AC	11.0/7.7-6.7	Ball	½ in	4 ½ in	7 ¼ in	40 °C	8650UI	**54ZX69**
5-Speed, Open Air-Over, Band Mounting													
½, ¼	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	6.2/3.9	Ball	½ in	4 ½ in	5 ¾ in	60 °C	5532ET	**54ZX53**
¾, ⅓	1,075	CW/CCW	48Y	5 ⅝ in	115/208-230V AC	8.5/5.2	Ball	½ in	4 ½ in	6 ¾ in	60 °C	5542ET	**54ZX54**

Ring Mount



Stud Mount

T-Flex Bracket Mount

PSC Direct-Drive Blower/Fan Motors

- Enclosure: open air-over; 49VT79 to 49VT93 are open dripproof
- Thermal protection: auto
- Service factor: 1.0
- ½" shaft dia.
- Duty: continuous

For furnace blowers and other shaft-mounted fan and blower applications.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Ins. Class	Motor Mounting Type	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	Item No.	Capacitor Req.
42Y Frame, 3 Speed, 5 in Body Dia., Sleeve Bearings															
⅒	1,625	CW/CCW	115V AC	2.0	B	Ring	4 13⁄16 in	2 ½ in	3¼ in x 3¼ in	5 13⁄16 in	5 3⁄16 in	40 °C	Century	**4UY12**	2MDV4
	1,075	CW/CCW	115V AC	1.06	B	Ring	4 13⁄16 in	2 ½ in	2 5⁄16 in x 4 in	5 13⁄16 in	5 3⁄16 in	40 °C	Century	**4UY13**	2MDV4
⅛	1,075	CW/CCW	115V AC	2.5/1.60/1.30	B	Ring	4 5⁄16 in	2 ½ in	3¼ in x 3¼ in	6 ½ in	4 11⁄16 in	40 °C	Century	**4MB16**	2MDV4
⅙	1,625	CW/CCW	115V AC	2.0	B	Ring	5 5⁄16 in	2 ½ in	3¼ in x 3¼ in	5 13⁄16 in	5 11⁄16 in	40 °C	Century	**4UY18**	2MDV4
	1,075	CW/CCW	115V AC	3.0	B	Ring	5 5⁄16 in	2 ½ in	2 5⁄16 in x 4 in	5 13⁄16 in	5 11⁄16 in	40 °C	Century	**4UY19**	2MDV4
⅕	1,075	CW/CCW	115V AC	3.2, 2.1, 1.70	B	Ring	4 9⁄16 in	2 ½ in	3⅛ in x 3⅛ in	5 ½ in	4 15⁄16 in	40 °C	Century	**4MB18**	2MDV6
	1,075	CW/CCW	230V AC	1.30, 0.90, 0.70	B	Ring	4 9⁄16 in	2 ½ in	3⅛ in x 3⅛ in	5 ½ in	4 15⁄16 in	40 °C	Century	**4KA44**	2MDV6
¼	1,625	CW/CCW	115V AC	4.0	B	Ring	5 13⁄16 in	2 ½ in	3¼ in x 3¼ in	5 13⁄16 in	6 3⁄16 in	40 °C	Century	**4UY20**	2MDV6
	1,075	CW/CCW	115V AC	4.1	B	Stud	4 13⁄16 in	2 ¼ in	3⅛ in x 3⅛ in	4 11⁄16 in	5 3⁄16 in	40 °C	Century	**4MB22**	2MDV4
	1,075	CW/CCW	115V AC	4.1	B	Ring	5 13⁄16 in	2 ½ in	2 5⁄16 in x 4 in	5 13⁄16 in	6 3⁄16 in	40 °C	Century	**4UY21**	2MDV6
⅓	1,075	CW/CCW	115V AC	6.0	B	Ring	4 13⁄16 in	2 ¼ in	3⅛ in x 3⅛ in	4 11⁄16 in	5 3⁄16 in	40 °C	Century	**4MB26**	2MDV9
48 Frame, 3 Speed, 5 ⅝ in Body Dia., Sleeve Bearings															
¼, ⅙, ⅛	1,075	CW/CCW	208-230V AC	2.2-1.50-1.10	B	Stud	4 13⁄16 in	2 ½ in	3 11⁄16 in x 3 11⁄16 in	6 in	4 ⅝ in	40 °C	Fasco	**49VT79**	2MDV4
¼, ⅕, ⅙	1,075	CW/CCW	115V AC	4.8-3.3-2.6	B	Stud	4 13⁄16 in	2 ½ in	3 11⁄16 in x 3 11⁄16 in	6 in	4 ⅝ in	40 °C	Fasco	**49VT83**	2MDV4
⅓, ¼, ⅕	1,075	CW/CCW	208-230V AC	2.9-2.2-1.70	B	Stud	5 1⁄16 in	2 ½ in	3 11⁄16 in x 3 11⁄16 in	6 in	4 ⅝ in	40 °C	Fasco	**49VT85**	2MDV4
	1,075	CW/CCW	115V AC	5.9-4.6-3.8	B	Stud	5 1⁄16 in	2 ½ in	3 11⁄16 in x 3 11⁄16 in	6 in	4 ⅝ in	40 °C	Fasco	**49VT87**	2MDV4
½, ⅓, ¼	1,075	CW/CCW	208-230V AC	4.0-2.7-2.00	B	Stud	5 13⁄16 in	2 ½ in	3 11⁄16 in x 3 11⁄16 in	6 in	4 ⅝ in	40 °C	Fasco	**49VT93**	2MDV6
48 Frame, 4 Speed, 5 ⅝ in Body Dia., Sleeve Bearings															
¼	1,075	CW/CCW	115V AC	3.9, 2.8, 2.1, 1.60	B	T-Flex	—	—	3⅝ in x 3⅝ in	5 ½ in	4 ⅜ in	50 °C	Century	**2CDT9**	2MDV4
⅓	1,075	CW/CCW	115V AC	5.1	B	T-Flex	—	—	—	5 ½ in	4 ⅞ in	40 °C	Century	**2FGP7**	2MDV4
⅓, ⅛	825	CW/CCW	208-230V AC	2.0	B	Stud	—	—	3⅝ in x 3⅝ in	3 ½ in	5 ⅜ in	40 °C	Century	**48UU56**	2MEC2
½	1,075	CW/CCW	115V AC	8.9, 5.9, 4.2, 3.2	B	T-Flex	—	—	3⅝ in x 3⅝ in	5 ½ in	5 ½ in	40 °C	Century	**2FGR1**	2MDV6
48Y Frame, 1 Speed, 5 ⅝ in Body Dia., Sleeve Bearings															
⅛	1,550	CCWLE	115/208-230V AC	2.7/1.20/1.40	B	Ring	4 11⁄16 in	2 ¼ in	—	4 ½ in	5 ⅛ in	40 °C	Century	**4UU84**	Included
	1,050	CCWLE	115V AC	2.0	A	Ring	4 15⁄16 in	2 ½ in	3⅝ in x 3⅝ in	5 7⁄16 in	5 ⅜ in	40 °C	Century	**4UU71**	Included
⅙	1,050	CCWLE	115/208-230V AC	3.3/1.70-1.50	B	Ring	4 9⁄16 in	2 ½ in	3⅝ in x 3⅝ in	4 1⁄16 in	4 in	40 °C	Century	**2CDU1**	2MDV4
¼	1,550	CCWLE	115/208-230V AC	4.9/2.5/2.5	B	Ring	5 1⁄16 in	2 ¼ in	—	4 ½ in	5 ½ in	40 °C	Century	**4UU68**	2MDV3
48Y Frame, 1 Speed, 5 11⁄16 in Body Dia., Ball Bearings															
⅕	1,075	CW/CCW	208-230V AC	1.80-1.60	B	Stud	—	—	3⅝ in x 3⅝ in	6 1⁄16 in	3 ¾ in	40 °C	Marathon	**32PF54**	2MDV4
⅓	825	CW/CCW	230V AC	2.8	B	Ring	6 ⅜ in	2 ¼ in	3⅝ in x 3⅝ in	5 ½ in	6 11⁄16 in	40 °C	Marathon	**32PF58**	2MDV4
48Y Frame, 3 Speed, 5 ⅝ in Body Dia., Sleeve Bearings															
⅙	1,075	CW/CCW	115V AC	3.0	B	Ring	4 7⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	4 ⅞ in	50 °C	Century	**4MB30**	2MDV6
	1,075	CW/CCW	115V AC	2.1	B	T-Flex	—	—	—	5 ½ in	4 ¼ in	40 °C	Century	**4MB50**	2MDV4
¼	1,625	CW/CCW	115V AC	3.0	A	Ring	4 15⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	5 ⅜ in	40 °C	Century	**4MA80**	2MDV7
	1,075	CW/CCW	208-230V AC	1.06	B	T-Flex	—	—	—	6 in	4 ⅛ in	50 °C	Century	**4MB52** *	2MDV4
	1,075	CW/CCW	115V AC	3.1	B	Ring	4 11⁄16 in	2 ¼ in	2 9⁄16 in x 4 7⁄16 in	5 ½ in	5 3⁄16 in	40 °C	Century	**4UU87**	Included
⅓	1,625	CW/CCW	115V AC	4.0	A	Ring	5 3⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	5 ⅝ in	40 °C	Century	**4MA84**	2MDV9
	1,075	CW/CCW	115V AC	5.1	A	Ring	5 3⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 ½ in	5 ⅝ in	50 °C	Century	**4MA66**	2MDV6
	1,075	CW/CCW	208-230V AC	2.0	B	T-Flex	—	—	—	6 in	4 ⅜ in	50 °C	Century	**4MB54** *	2MDV6
	1,075	CW/CCW	115V AC	4.1	B	Ring	5 in	2 ¼ in	2 9⁄16 in x 4 7⁄16 in	5 in	5 ½ in	40 °C	Century	**4UU88**	2MDV6
½	1,625	CW/CCW	115V AC	7.1	A	Ring	5 11⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	6 ⅛ in	40 °C	Century	**4MA88**	2MDV9
	1,625	CW/CCW	208-230V AC	2.1	A	Ring/Stud	5 11⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	6 ⅛ in	40 °C	Century	**4MA90**	2MDV6
	1,075	CW/CCW	115V AC	5.1	A	Ring	5 11⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 ½ in	6 ⅛ in	50 °C	Century	**4MA70**	2MDV7
	1,075	CW/CCW	208-230V AC	3.0	B	T-Flex	—	—	—	6 in	4 ⅞ in	50 °C	Century	**4MB56**	2MDV7
	1,075	CW/CCW	208-230V AC	2.1	A	Ring	5 11⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	6 ⅛ in	50 °C	Century	**4MA72**	2MDV6
¾	1,625	CW/CCW	115V AC	8.1	A	Ring	6 3⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	6 ⅝ in	40 °C	Century	**4MA92**	2MDV9
	1,075	CW/CCW	208-230V AC	4.1	B	Ring	5 15⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	6 7⁄16 in	6 ⅜ in	50 °C	Century	**4MA76**	2MDV7
48Y Frame, 4 Speed, 5 ⅝ in Body Dia., Ball Bearings															
½	1,075	CW/CCW	115V AC	7.3	B	Ring/Stud	5 13⁄16 in	2 ½ in	3⅝ in x 3⅝ in	5 in	5 13⁄16 in	40 °C	U.S. Motors	**55ML50**	2MDV7
¾	1,075	CW/CCW	115V AC	8.1	B	Ring/Stud	6 ⅝ in	2 ½ in	3⅝ in x 3⅝ in	5 in	6 ⅝ in	40 °C	U.S. Motors	**55ML35**	2MDW2
48Y Frame, 4 Speed, 5 ⅝ in Body Dia., Sleeve Bearings															
¼, ⅕, ⅙, ⅛	1,050	CCWLE	115V AC	3.2, 2.5, 2.00, 1.60	B	Ring	4 13⁄16 in	2 ½ in	3⅝ in x 3⅝ in	6 ½ in	5 5⁄16 in	40 °C	Century	**2MVR3**	2MDV4
¾	1,075	CW/CCW	115V AC	10.0	A	T-Flex	—	—	—	6 in	5 ⅜ in	50 °C	Century	**4MB40** *	2MDV9
48Y Frame, 4 Speed, 5 11⁄16 in Body Dia., Ball Bearings															
½	1,075	CW/CCW	115V AC	6.1	B	Stud	—	2 ¼ in	3⅝ in x 3⅝ in	5 in	5 in	40 °C	Marathon	**32PF57**	2MDV7
	1,075	CW/CCW	115V AC	6.1	B	Ring/Stud	5 9⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	5 in	6 in	40 °C	Marathon	**482R59**	2MDV7
48Z Frame, 2 Speed, 5 11⁄16 in Body Dia., Ball Bearings															
¾	1,075	CW/CCW	460V AC	2.1	B	Stud	—	—	3⅝ in x 3⅝ in	6 1⁄16 in	6 ⅜ in	40 °C	Marathon	**490T88**	2MDV9
48Z Frame, 3 Speed, 5 11⁄16 in Body Dia., Ball Bearings															
½	1,625	CW/CCW	115V AC	7.4	B	Ring/Stud	5 13⁄16 in	2 ¼ in	3⅝ in x 3⅝ in	4 1⁄16 in	6 3⁄16 in	40 °C	Marathon	**490T84**	2MDV9

** 60/50 Hz.*

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Find Dual-Run Capacitors on page 66.

marathon Motors · Century · Dayton

PSC Direct-Drive Blower/Fan Motors

- Rotation: CW/CCW, except 7E667 is CWSE
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: sleeve, except 490T84, 3LU87 to 3LU90, 7E678, 6GC95 are ball
- Body dia.: 5⅝", except 490T84 is 5 11/16"
- Duty: continuous
- Ring dia.: 2¼"
- Stud pattern: 3⅝" x 3⅝"

Motors have quick-reversing leads. Energy-efficient models feature a typical energy savings of 10% over standard-efficiency motors. Dayton motors include split ring adapter. Capacitor mounting hardware sold separately on Grainger.com.

T-Flex Bracket
2MEY7
(Included w/7E647–7E682)

4M098

3LU92

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	Mfr. Model	Item No.	Capacitor Req.
3-Speed, Open Air-Over, Stud Mounting, Standard Efficient													
¼	1,075	48	115V AC	4.1	4 11/16 in	½ in	4 ½ in	5 3/16 in	40 °C	Century	DL1026	**4KA32**	2MDV4
	1,075	48	208-230V AC	2.00	4 11/16 in	½ in	4 ½ in	5 3/16 in	40 °C	Century	D1026	**4KA33**	2MDV4
⅓	1,075	48	115V AC	5.0	5 1/16 in	½ in	4 ½ in	5 ½ in	40 °C	Century	DL1036	**4KA34**	2MDV6
	1,075	48	208-230V AC	2.1	4 15/16 in	½ in	4 ½ in	5 ⅜ in	40 °C	Century	D1036	**4KA35**	2MDV4
½	1,075	48	115V AC	7.0	5 9/16 in	½ in	4 ½ in	6 in	40 °C	Century	DL1056	**4KA36**	2MDV7
	1,075	48	208-230V AC	3.6	5 7/16 in	½ in	4 ½ in	5 ⅞ in	40 °C	Century	D1056	**4KA37**	2MDV6
¾	1,075	48	115V AC	9.1	6 3/16 in	½ in	4 ½ in	6 9/16 in	50 °C	Century	DL1076	**4KA38**	2MDV9
	1,075	48	208-230V AC	5.1	6 3/16 in	½ in	4 ½ in	6 9/16 in	40 °C	Century	D1076	**4KA39**	2MDV7

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	MOTOR ONLY Item No.	MOTOR W/ NO. 2MEY7* T-Flex Bracket Item No.	Capacitor Req.
3-Speed, Open Air-Over, Ring/Stud Mounting													
Standard Efficient													
¼	1,075	48YZ	115V AC	4.2	4 ¾ in	½ in	4 in	5 3/16 in	40 °C	Dayton	—	**7E647**	2MDV4
	1,075	48YZ	208-230V AC	1.5	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	—	**7E648**	2MDV4
⅓	1,075	48YZ	115V AC	5.0	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	—	**7E649**	2MDV4
	1,075	48YZ	208-230V AC	2.4-2.4	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	—	**7E650**	2MDV4
½	1,075	48YZ	115V AC	9.0	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	—	**7E651**	2MDV4
	1,075	48YZ	208-230V AC	4.0-4.0	5 ¾ in	½ in	4 in	6 3/16 in	40 °C	Dayton	—	**7E652**	2MDV4
¾	1,075	48YZ	115V AC	11.5	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	—	**7E653**	2MDV9
	1,075	48YZ	208-230V AC	4.6	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	—	**7E654**	2MDV7
3-Speed, Open Air-Over, Stud Mounting													
Energy Efficient													
⅙	1,075	48YZ	277V AC	0.9	4 ¾ in	½ in	6 in	5 3/16 in	40 °C	Dayton	**6GC93**	**7E657**	2MDV3
¼	1,625	48YZ	115V AC	3.4	5 in	½ in	6 in	5 7/16 in	40 °C	Dayton	**3LU73**	**7E658**	2MDV7
	1,625	48YZ	208-230V AC	1.75-1.75	5 in	½ in	6 in	5 7/16 in	40 °C	Dayton	**3LU74**	**7E659**	2MDV4
	1,075	48YZ	277V AC	2.0	5 in	½ in	6 in	5 7/16 in	40 °C	Dayton	**3M712**	**7E662**	2MDV3
⅓	1,625	48YZ	115V AC	5.1	5 ¼ in	½ in	6 in	5 11/16 in	40 °C	Dayton	**3LU77**	**7E663**	2MDV9
	1,625	48YZ	208-230V AC	2.2-1.90	5 ¾ in	½ in	6 in	6 ⅛ in	40 °C	Dayton	**3LU78**	**7E664**	2MDV6
	1,075	48YZ	277V AC	2.2	5 ¾ in	½ in	6 in	6 3/16 in	40 °C	Dayton	**3M713**	**7E667**	2MDV3
½	1,625	48YZ	115V AC	5.5	5 ¾ in	½ in	6 in	6 3/16 in	40 °C	Dayton	**3LU81**	**7E668**	2MDV9
	1,625	48YZ	208-230V AC	4.0-4.5	5 ¾ in	½ in	6 in	6 3/16 in	40 °C	Dayton	**3LU82**	**7E669**	2MDV6
	1,075	48YZ	277V AC	2.6	6 in	½ in	6 in	6 13/32 in	40 °C	Dayton	**3M714**	**7E672**	2MDV5
¾	1,625	48YZ	115V AC	8.8	6 ¼ in	½ in	6 in	6 21/32 in	40 °C	Dayton	**3LU85**	**7E673**	2MDV9
	1,625	48YZ	208-230V AC	4.4-4.2	5 15/16 in	½ in	6 in	6 7/16 in	40 °C	Dayton	**3LU86**	**7E674**	2MDV7
	1,075	48YZ	277V AC	4.1	6 ¾ in	½ in	6 in	7 5/32 in	40 °C	Dayton	**6GC94**	**7E677**	2MDV9
1	1,625	48YZ	115V AC	10	6 ¾ in	½ in	6 in	7 5/32 in	40 °C	Dayton	**3LU89**	**7E678**	2MDW3
	1,625	48YZ	208-230V AC	6.8-6.0	7 in	½ in	6 in	7 7/16 in	40 °C	Dayton	**3LU90**	**7E679**	2MDW2
	1,075	48YZ	277V AC	6.9	6 15/16 in	½ in	6 ¼ in	7 11/16 in	40 °C	Dayton	**6GC95**	**7E682**	2MDW4
Standard Efficient													
¼	1,075	48YZ	115V AC	4.2	4 ¾ in	½ in	4 in	5 3/16 in	40 °C	Dayton	**4M096**	—	2MDV4
	1,075	48YZ	208-230V AC	1.5	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	**4M097**	—	2MDV4
⅓	1,075	48YZ	115V AC	5.0	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	**4M098**	—	2MDV4
	1,075	48YZ	208-230V AC	2.4-2.4	5 ¼ in	½ in	4 in	5 11/16 in	40 °C	Dayton	**4M099**	—	2MDV4
½	1,075	48YZ	115V AC	9.0	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	**4M100**	—	2MDV4
	1,075	48YZ	208-230V AC	4.0-4.0	5 ¾ in	½ in	4 in	6 3/16 in	40 °C	Dayton	**4M101**	—	2MDV4
¾	1,075	48YZ	115V AC	11.5	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	**4M183**	—	2MDV9
	1,075	48YZ	208-230V AC	4.6	6 in	½ in	4 in	6 7/16 in	40 °C	Dayton	**4M184**	—	2MDV7
4-Speed, Open Air-Over, Stud Mounting													
Energy Efficient													
⅙	1,075	48YZ	115V AC	2.7	4 ¾ in	½ in	6 in	5 3/16 in	40 °C	Dayton	**3LU71**	**7E655**	2MDV3
	1,075	48YZ	208-230V AC	1.20-1.13	5 in	½ in	5 13/16 in	5 13/32 in	40 °C	Dayton	**3LU72**	**7E656**	2MDV4
¼	1,075	48YZ	115V AC	3.8	5 5/32 in	½ in	6 in	5 9/16 in	40 °C	Dayton	**3LU75**	**7E660**	2MDV4
	1,075	48YZ	208-230V AC	1.80-1.70	5 in	½ in	6 in	5 7/16 in	40 °C	Dayton	**3LU76**	**7E661**	2MDV4
⅓	1,075	48YZ	115V AC	4.6	5 ½ in	½ in	6 in	5 15/16 in	40 °C	Dayton	**3LU79**	**7E665**	2MDV6
	1,075	48YZ	208-230V AC	3.1-2.9	5 ¾ in	½ in	5 13/16 in	6 5/32 in	40 °C	Dayton	**3LU80**	**7E666**	2MDV5
½	1,075	48YZ	115V AC	7.1	5 ¾ in	½ in	6 in	6 5/32 in	40 °C	Dayton	**3LU83**	**7E670**	2MDV6
	1,075	48YZ	208-230V AC	3.3-3.1	6 in	½ in	6 in	6 7/16 in	40 °C	Dayton	**3LU84**	**7E671**	2MDV6
¾	1,075	48YZ	115V AC	10.6	6 ½ in	½ in	6 in	6 15/16 in	40 °C	Dayton	**3LU87**	**7E675**	2MDV9
	1,075	48YZ	208-230V AC	6.1-5.8	6 ½ in	½ in	6 in	6 15/16 in	40 °C	Dayton	**3LU88**	**7E676**	2MDV7
1	1,075	48YZ	115V AC	15.8	7 in	½ in	6 in	7 7/16 in	40 °C	Dayton	**3LU91**	**7E680**	2MDW2
	1,075	48YZ	208-230V AC	6.8-5.8	7 in	½ in	6 in	7 7/16 in	40 °C	Dayton	**3LU92**	**7E681**	2MDW2

**For details on Bracket 2MEY7 go to Grainger.com.*

Find Dual-Run Capacitors on page 66.

Century® Dayton®

PSC Stud- and Cradle-Mount Condenser Fan Motors

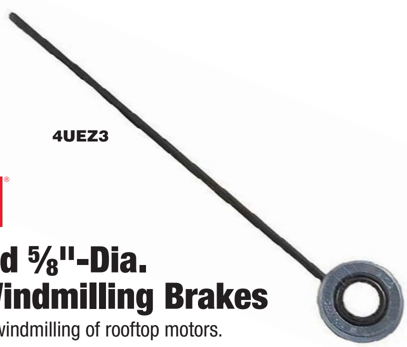
Cradle Base-Mount
3M224

Stud-Mount
4M205

- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Body dia.: 48 frame, 5⅝"; 56 frame, 6½"
- Max. ambient temp.: 60°C
- Duty: continuous
- Stud pattern: 3⅝" x 3⅝"

Commercial-duty motors feature higher starting torque, cooler running temperature, and reversing plug. Open air-over motors have totally enclosed shaft endshield and shell (except 460V motors). Opposite endshield is open. Shaft up/down motors have both endshields totally enclosed with removable drain plugs. Can be mounted vertically or horizontally. Shafts are double flat (90° apart). Dayton® motors feature slinger on shaft. All models are suitable for outdoor air conditioner condensers and refrigeration condensers. Two-speed models can be used on heat pumps.

HP	Nameplate RPM	No. of Speeds	Frame	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Brand	Mfr. Model	Item No.	Capacitor Req.
Stud-Mount, Open Air-Over, Shaft Horizontal													
¼	1,625	2	48Y	460V AC	0.90	Ball	½ in	6 7⁄16 in	6 ⅜ in	Century	BDH1024	**4MB91**	Included
⅓	1,075	2	48Y	460V AC	1.20	Ball	½ in	6 7⁄16 in	5 ½ in	Century	BDH1036	**4MB93**	Included
½	1,625	2	48Y	460V AC	1.40	Ball	½ in	6 7⁄16 in	5 13⁄16 in	Century	BDH1054	**4MB95**	Included
¾	1,075	2	48Y	460V AC	2.2	Ball	½ in	6 7⁄16 in	6 3⁄16 in	Century	BDH1076	**4MB97**	Included
Stud-Mount, Open Air-Over, Shaft Up													
⅙	1,075	2	48Y	208-230V AC	0.90	Sleeve	½ in	6 7⁄16 in	4 ⅜ in	Century	FS1016	**4MB49**	2MDV4
⅓	825	1	48Y	115V AC	4.8	Ball	½ in	5 ½ in	6 ¼ in	Century	FL1038	**4MB71**	2MDV6
Stud-Mount, Totally Enclosed Air-Over, Shaft Up/Down													
1⁄10	825	1	48YZ	208-230V AC	1.00	Ball	½ in	6 in	4 ⅜ in	Dayton	—	**4M223**	2MDV2
⅛	825	1	48YZ	208-230V AC	0.95-0.80	Ball	½ in	6 in	4 15⁄16 in	Dayton	—	**4M224**	2MDV4
⅙	1,075	1	48YZ	208-230V AC	1.30	Ball	½ in	6 in	4 6/7 in	Dayton	—	**4M261**	2MDV2
	1,075	2	48YZ	208-230V AC	1.00-1.00	Ball	½ in	6 in	4 15⁄16 in	Dayton	—	**3M839**	2MDV4
	825	1	48YZ	208-230V AC	1.10-1.00	Ball	½ in	6 in	4 15⁄16 in	Dayton	—	**4M225**	2MDV4
	825	2	48YZ	208-230V AC	0.80	Ball	½ in	6 in	4 13⁄16 in	Dayton	—	**3LU93**	2MDV4
¼	1,075	1	48YZ	208-230V AC	1.50-1.40	Ball	½ in	6 1⁄16 in	5 ⅞ in	Dayton	—	**4M205**	2MDV4
	1,075	1	48YZ	460V AC	0.80	Ball	½ in	6 in	5 ⅞ in	Dayton	—	**3LU94**	2MDV6
	1,075	2	48YZ	208-230V AC	2.00-1.90	Ball	½ in	6 in	5 ⅛ in	Dayton	—	**4M060**	2MDV4
	825	1	48YZ	208-230V AC	2.00-2.00	Ball	½ in	6 in	5 ⅛ in	Dayton	—	**4M226**	2MDV4
	825	2	48YZ	208-230V AC	1.40-1.30	Ball	½ in	6 in	5 7⁄16 in	Dayton	—	**3LU95**	2MDV6
⅓	1,075	1	48YZ	208-230V AC	2.00-2.00	Ball	½ in	6 in	6 ⅜ in	Dayton	—	**4M206**	2MDV6
	1,075	1	48YZ	460V AC	1.00	Ball	½ in	6 in	6 ⅜ in	Dayton	—	**3LU96**	2MDV6
	1,075	2	48YZ	208-230V AC	2.3-2.1	Ball	½ in	6 in	5 ⅜ in	Dayton	—	**4M061**	2MDV6
	825	1	48YZ	208-230V AC	2.1/2.1	Ball	½ in	6 in	5 ⅜ in	Dayton	—	**4M262**	2MDV7
	825	2	48YZ	208-230V AC	2.2	Ball	½ in	6 in	5 15⁄16 in	Dayton	—	**3LU97**	2MDV6
½	1,075	1	48YZ	208-230V AC	3.1-3.1	Ball	½ in	6 in	6 ⅝ in	Dayton	—	**4M207**	2MDV6
	1,075	1	48YZ	460V AC	2.1	Ball	½ in	5 in	5 ⅞ in	Dayton	—	**3LU98**	2MDV7
	1,075	2	48YZ	208-230V AC	2.9	Ball	½ in	6 in	6 7⁄16 in	Dayton	—	**4M062**	2MDV7
	825	1	48YZ	208-230V AC	3.19/3.05	Ball	½ in	6 in	6 ⅝ in	Dayton	—	**4M263**	2MDV8
¾	1,075	1	48YZ	208-230V AC	4.7-4.7	Ball	½ in	6 in	7 ⅜ in	Dayton	—	**4M208**	2MDV7
	1,075	1	48YZ	460V AC	2.00	Ball	½ in	5 in	6 ⅜ in	Dayton	—	**3LU99**	2MDV7
	1,075	2	48YZ	208-230V AC	4.5-4.0	Ball	½ in	5 in	6 1⁄16 in	Dayton	—	**3M769**	2MDV9
Cradle Base-Mount, Open Air-Over, Shaft Up													
¼	1,075	1	48YZ	208-230V AC	2.5-2.3	Sleeve	½ in	6 in	5 11⁄16 in	Dayton	—	**3M990**	Included
	1,075	1	48YZ	208-230V AC	2.5-2.3	Sleeve	½ in	6 in	6 15⁄16 in	Dayton	—	**3M226**	Included
⅓	1,625	1	48YZ	208-230V AC	3.1	Sleeve	½ in	6 in	5 ⅝ in	Dayton	—	**3M265**	Included
	1,075	1	48YZ	208-230V AC	2.3	Ball	½ in	6 in	5 ⅝ in	Dayton	—	**3M217**	Included
	825	1	48YZ	208-230V AC	2.3-2.2	Ball	½ in	6 in	6 15⁄16 in	Dayton	—	**3M224**	Included
½	1,075	1	48YZ	208-230V AC	3.1	Sleeve	½ in	5 in	5 15⁄16 in	Dayton	—	**3M221**	Included
	1,075	1	48YZ	208-230V AC	3.1	Ball	½ in	6 in	5 ⅞ in	Dayton	—	**3M994**	Included
	825	1	56YZ	230V AC	3.2	Ball	½ in	6 in	7 7⁄16 in	Dayton	—	**3M295**	Included



4UEZ3

Dayton®

½"-and ⅝"-Dia. Anti-Windmilling Brakes

Use to stop windmilling of rooftop motors.

For Use With	Item No.
Motors Having ½ in Diameter Shafts	**4UEZ3**
Motors Having ⅝ in Diameter Shafts	**4UEZ4**

4M220

Dayton®

Motor Rainshields

Disc-shaped rainshields prevent water from damaging open motors that are mounted either shaft-up or shaft-down in outdoor condenser units. Heavy-duty nylon construction resists heat and ultraviolet rays. 4UEZ6 has a deep dish for added protection. 4M219 and 4M220 have internal cooling vanes to reduce motor temperature, and a removable center plug.

Bore Dia.	Dia.	Item No.
½ in"	7 ¼ in"	**4UEZ6**
½ in"	6 ¾ in"	**4M219**
⅝ in"	6 ¾ in"	**4M220**

Find Dual-Run Capacitors on page 66.

3RCR6

Century®

MultiFit Multi-Mount and Multi-HP PSC Condenser Fan Motors

- NEMA frame: 42 (5" body dia.)
- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud/band/hole
- Bearings: ball
- Max. ambient temp.: 60°C
- Duty: continuous

Motors replace 4.33", 4.42", and 4.62" mounting bolt circle without having to change capacitors or follow complicated wiring diagrams. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
⅛ to 1⁄12	1,075	208-230V AC	0.90	½ in	3 in	4 ½ in	9722	**3RCR6**	2MDV4
¼ to ⅙	1,625	208-230V AC	1.60	½ in	3 in	4 ½ in	9724	**3RCR7**	2MDV4
	1,075	208-230V AC	2.00	½ in	3 in	4 ½ in	9723	**3RCR5**	2MDV6

5RHU2

Dayton®

Multi-HP PSC 2-Speed Condenser Fan Motors

- NEMA frame: 48YZ (5⅝" body dia.)
- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Multiple-horsepower design eliminates the need to select speed or change capacitor size during installation. Totally enclosed construction allows all-angle mounting. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures. Feature quick-change reversing plug.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	Capacitor Selection ⅙ to ⅕ HP	Capacitor Selection ¼ to ⅓ HP
⅓ to ⅙	825	208-230V AC	1.90-1.00	½ in	5 in	5 ¼ in	**5RHU4**	2MDV6	2MDV7
½ to ⅕	1,075	115V AC	5.8-2.2	½ in	5 in	5 13⁄16 in	**5RHU2**	2MDV7	2MDV7
	1,075	208-230V AC	2.9-1.25	½ in	5 in	5 13⁄16 in	**5RHU3**	2MDV7	2MDV7
	1,075	460V AC	1.30/0.56	½ in	5 in	5 13⁄16 in	**5RHU6**	Included	Included
	825	208-230V AC	3.2-1.40	½ in	6 in	6 1⁄16 in	**5RHU5**	2MDV7	2MDV7
	825	460V AC	1.50-0.80	½ in	6 in	6 1⁄16 in	**5RHU7**	Included	Included

3RCP7

Century®

4-in-1 Multi-HP PSC Single-Speed Condenser Fan Motors

- NEMA frame: 48 (5⅝" body dia.)
- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Mounting: stud/band/hole
- Rheem mounting holes (screws included)
- Duty: continuous

Multiple-horsepower design eliminates the need to select speed or change capacitor size during installation. Totally enclosed construction allows all-angle mounting. Energy-efficient PSC design with high-efficiency rating ensures performance in elevated temperatures. Feature quick-change rotation reversal plugs and drain plugs.

HP	Nameplate RPM	Voltage	Full Load Amps	Ins. Class	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Mfr. Model	Item No.	Capacitor Req.
⅛ to 1⁄15	1,075	208-230V AC	0.80	F	Ball	½ in	6 ½ in	4 ⅞ in	70 °C	ORM5454BF	**5DVX6**	2MDV4
	825	208-230V AC	1.00	F	Ball	½ in	6 ½ in	5 ⅛ in	70 °C	ORM5484BF	**5DVX4**	2MDV4
⅓ to ⅛	825	208-230V AC	2.1	B	Sleeve	½ in	6 ¾ in	5 ¾ in	70 °C	ORM5488	**3RCP8**	2MDV6
	825	208-230V AC	2.1	F	Sleeve	½ in	6 ½ in	5 ¾ in	70 °C	ORM5488F	**3RCR3**	2MDV6
	825	208-230V AC	2.1	F	Ball	½ in	6 ½ in	5 ¾ in	70 °C	ORM5488BF	**3RCR4**	2MDV6
	825	208-230V AC	2.1	B	Ball	½ in	6 ¾ in	5 ¾ in	70 °C	ORM5488B	**3RCP9**	2MDV6
	825	460V AC	1.00	F	Ball	½ in	6 ½ in	6 ⅛ in	70 °C	ORM4688BF	**5DVX5**	2MDV6
⅓ to ⅙	1,075	208-230V AC	2.00	B	Sleeve	½ in	6 ¾ in	5 in	70 °C	ORM5458	**2CDT8**	2MDV6
	1,075	208-230V AC	2.00	B	Ball	½ in	6 11⁄16 in	5 1⁄16 in	70 °C	ORM5458B	**3RCP7**	2MDV6
	1,075	208-230V AC	2.1	F	Sleeve	½ in	6 ½ in	5 in	70 °C	ORM5458F	**3RCR1**	2MDV6
	1,075	208-230V AC	2.1	F	Ball	½ in	6 ½ in	5 in	70 °C	ORM5458BF	**3RCR2**	2MDV6
	1,075	460V AC	1.20	F	Ball	½ in	6 ½ in	5 ¾ in	70 °C	ORM4658BF	**5DVX7**	2MDV6
½ to ⅕	1,075	208-230V AC	3.1	F	Ball	½ in	6 ½ in	5 ⅜ in	70 °C	ORM5459BF	**16A115**	2MDV7
	1,075	460V AC	1.05	F	Ball	½ in	6 ½ in	5 ⅜ in	70 °C	ORM4659BF	**16A116**	2MDV7
	825	208-230V AC	2.5	F	Ball	½ in	6 ½ in	6 ½ in	70 °C	ORM5489BF	**16A114**	2MDV7

Find Dual-Run Capacitors on page 66.

HeatMaster PSC High-Ambient Condenser Fan Motors

- No. of speeds: 1
- Frame: 48Y (5⅝" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

PSC motors are insulated and designed for trouble-free operation at full rated load at high temperature. Rotor cores have corrosion-resistant coating to ensure long motor life. Easy-to-remove drain plugs in each end shield and have 36" color-coded, high-temp. leads. For outdoor air conditioning and refrigeration condensing units and heat pumps.

4MB19

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
⅛	825	CW/CCW	208-230V AC	1.00	5 ⅝ in	½ in	6 ½ in	5 ⅛ in	FE1008SF	**4MB75**	2MDV4
⅙	1,075	CW/CCW	208-230V AC	1.40	5 ⅝ in	½ in	6 in	4 ⅞ in	FE1016SF	**1UME7**	2MDV4
	825	CW/CCW	208-230V AC	1.10	5 ⅝ in	½ in	6 ½ in	5 in	FE1018SF	**1UME8**	2MDV4
¼	1,075	CW/CCW	208-230V AC	2.00	5 ⅝ in	½ in	6 ½ in	5 ¼ in	FE1026SF	**4MB59**	2MDV4
	1,075	CW/CCW	460V AC	1.00	5 ⅝ in	½ in	6 ½ in	5 ⅝ in	FEH1026SF	**4ME14**	2MDV6
	825	CW/CCW	208-230V AC	1.50	5 ⅝ in	½ in	6 ½ in	5 ½ in	FE1028SF	**1UME9**	2MDV4
⅓	1,075	CW/CCW	208-230V AC	2.8	5 ⅝ in	½ in	6 ½ in	5 ¾ in	FE1036SF	**4MB61**	2MDV6
	1,075	CW/CCW	460V AC	1.30	5 ⅝ in	½ in	6 ½ in	6 ⅛ in	FEH1036SF	**4ME16**	2MDV6
	825	CW/CCW	208-230V AC	2.1	5 ⅝ in	½ in	6 ½ in	6 in	FE1038SF	**4MB19**	2MDV6
½	1,075	CW/CCW	208-230V AC	4.0	5 ⅝ in	½ in	6 ½ in	6 ¼ in	FE1056SF	**4MB63**	2MDV7
	1,075	CW/CCW	460V AC	1.50	5 ⅝ in	½ in	6 ½ in	6 ½ in	FEH1056SF	**1UMG2**	2MDV7
	825	CW/CCW	208-230V AC	2.5	5 ⅝ in	½ in	6 ½ in	6 ½ in	FE1058SF	**1UMG1**	2MDV7
¾	1,075	CW/CCW	208-230V AC	5.1	5 ⅝ in	½ in	6 ½ in	6 ½ in	FE1076SF	**4MB65**	2MDV9
	1,075	CW/CCW	460V AC	2.2	5 ⅝ in	½ in	6 ½ in	7 in	FEH1076SF	**4ME18**	2MDV7

HeatMaster PSC Ultra Condenser Fan Motors

- No. of speeds: 1
- Frame: 48 (5$^{11}/_{16}$" body dia.)
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Rheem mounting holes (screws included)
- Bearings: ball
- Max. ambient temp.: 80°C
- Duty: continuous

Insulated PSC motors are designed for trouble-free operation and feature a double flat shaft. Also feature ultra-high temperature synthetic bearing grease in double-sealed ball bearings to help the bearings stand up to the most severe conditions. Rotor cores have corrosion-resistant coating to ensure long motor life. Include water-resistant reversing plug and 48" high-temp. leads. Speed Engineered® for speed control duty. For use with outdoor air conditioning and refrigeration condensing units and heat pumps.

32NA62

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
¼	1,075	CW/CCW	208-230V AC	1.90	5 ⅝ in	½ in	6 ½ in	5 ¼ in	FE1026SU	**32NA65**	2MDV4
	1,075	CW/CCW	460V AC	0.90	5 ⅝ in	½ in	6 ½ in	5 ⅝ in	FEH1026SU	**32NA69**	2MDV6
	825	CW/CCW	208-230V AC	1.20	5 ⅝ in	½ in	6 ½ in	5 ½ in	FE1028SU	**32NA62**	2MDV4
⅓	1,075	CW/CCW	208-230V AC	2.5	5 ⅝ in	½ in	6 ½ in	5 ¾ in	FE1036SU	**32NA66**	2MDV6
	1,075	CW/CCW	460V AC	1.20	5 ⅝ in	½ in	6 ½ in	6 ⅛ in	FEH1036SU	**32NA70**	2MDV6
	825	CW/CCW	208-230V AC	1.60	5 ⅝ in	½ in	6 ½ in	6 in	FE1038SU	**32NA63**	2MDV6
⅓ to ⅛	825	CW/CCW	208-230V AC	1.80	5 ⅝ in	½ in	6 ½ in	5 ¾ in	ORM5488BU	**32NA72**	2MDV6
⅓ to ⅙	1,075	CW/CCW	208-230V AC	1.90	5 ⅝ in	½ in	6 ½ in	5 in	ORM5458BU	**32NA73**	2MDV6
½	1,075	CW/CCW	208-230V AC	3.8	5 ⅝ in	½ in	6 ½ in	6 ¼ in	FE1056SU	**32NA67**	2MDV7
	1,075	CW/CCW	460V AC	1.50	5 ⅝ in	½ in	6 ½ in	6 ½ in	FEH1056SU	**32NA71**	2MDV7
¾	1,075	CW/CCW	208-230V AC	5.1	5 ⅝ in	½ in	6 ½ in	6 ½ in	FE1076SU	**32NA68**	2MDV9

PSC Stud- and Cradle-Mount Condenser Fan Motors

- No. of Speeds: 1
- NEMA frame: 56Y (6½" body dia.), 48Y (5⅝" body dia.)
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Shaft: ½" dia. have double flat; ⅝" dia. have flat and keyway

Multipurpose mounting in cradle, band, or by thru-bolt extensions. For 5-ton and larger commercial outdoor condensers. Also used for commercial and industrial coolers, and other shaft-mounted fan and blower equipment.

4MA37

4MA29

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Mounting	Ring to Ring Center	Resilient Ring Dia.	Stud Pattern	Shaft Dia.	Shaft Length	Max. Ambient Temp.	Mfr. Model	Item No.	Capacitor Req.
Open Air-Over, Vertical Shaft Up														
½	1,075	56Y	200-230/460V AC	2.6-2.5/1.25	Cradle Base	9 $^{13}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C513V1	**4MA37**	2MDV7
	850	56Y	115/200-230V AC	6.6/4.0-3.3	Cradle Base	10 $^{13}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C784	**4MA39**	2MDV9
	850	56Y	200-230/460V AC	3.5-3.4/1.70	Cradle Base	10 $^{5}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C512V1	**4MA25**	2MDV9
¾	1,075	56Y	200-230/460V AC	4.4-4.0/2.0	Ring/Stud	9 $^{13}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	W56P11OR040001A2A	**4MA41**	2MDV9
	1,075	48Y	208-230/460V AC	5.0/2.5	Cradle Base	8 $^{5}/_{16}$ in	2 ¼ in	3⅝ x 3⅝"	½ in	6 in	60 °C	FB1076V1	**4MA35**	Included
	825	56Y	200-230/460V AC	2.6/5.3-5.2	Cradle Base	10 $^{13}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C660V1	**4MA43**	2MDV9
1	1,075	56Y	200-230/460V AC	4.8/2.4	Cradle Base	10 $^{5}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C770V1	**4MA27**	2MDW3
Totally Enclosed Air-Over, All Angle														
½	1,075	48Y	208-230/460V AC	2.4/1.20	Stud	6 $^{3}/_{16}$ in	2 ½ in	3⅝ x 3⅝"	½ in	6 in	60 °C	FEH1056D	**4MA46**	2MDV7
¾	1,075	48Y	208-230/460V AC	3.4/1.70	Stud	6 $^{11}/_{16}$ in	2 ½ in	3⅝ x 3⅝"	½ in	6 in	60 °C	FEH1076D	**4MA48**	2MDV7
Totally Enclosed Air-Over, Vertical Shaft Up														
½	1,075	48Y	208-230/460V AC	2.4/1.20	Cradle Base	8 $^{5}/_{16}$ in	2 ¼ in	3⅝ x 3⅝"	½ in	5 in	40 °C	FB1056TE	**4MA29**	Included
1	1,075	56Y	208-230/460V AC	4.2/2.3	Cradle Base	11 in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	40 °C	FB1106TE	**4MA31**	Included
	1,075	56Y	208-230/460V AC	4.2/2.3	Stud	10 $^{13}/_{16}$ in	2 ½ in	4⅛ x 4⅛"	⅝ in	6 in	60 °C	C785	**4MA50**	2MDZ3

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Find A/C Condenser Fan Replacement Propellers on page 2950.

3RCT5

Century®

HeatMaster Permanent Split Capacitor OEM Fan Canopy Condenser Fan Motors

- Speeds: 1
- Frame: 48Y (5⅝" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Mounting: band
- Mounting position: vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Motors provide a high-ambient alternative to OEM motors in many commercial condenser fan applications. The energy-efficient design comes with an ultrahigh torque to ensure performance in elevated temperatures. High-efficiency rating helps to increase motor life. Reversible design and supports application flexibility.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.	Capacitor Req.
⅝	1,075	200-230/ 460V AC	4.0/2.0	½ in	3 ⅝ in	9 5⁄16 in	FC1066AF	**3RCT1**	2MDY7
⅞	1,075	200-230/ 460V AC	4.6/2.3	½ in	3 ⅝ in	10 ⅝ in	FC1086F	**3RCT2**	2MDW2
⅞	1,075	200-230/ 460V AC	4.6/2.3	⅝ in	3 ⅝ in	10 ⅝ in	FC1086AF	**3RCT3**	2MDW2
1	1,075	200-230/ 460V AC	6.4/3.2	⅝ in	4 1⁄16 in	11 ⅜ in	FC1106F	**3RCT4**	2MDW3
1 ½	1,075	200-230/ 460V AC	7.0/3.5	⅝ in	4 1⁄16 in	11 ⅞ in	FC1156F	**3RCT5**	2MDW3

2XJK4

Century®

3-Phase OEM Fan Canopy Condenser Fan Motors

- NEMA frame: 48Y (5⅝" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Mounting: band
- Mounting position: vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous

Provide a high-ambient alternative to OEM motors in commercial condenser fan applications. Energy-efficient design with ultrahigh torque ensures performance in elevated temperatures. High-efficiency rating increases motor life. The reversible design supports application flexibility.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
½	1,140	200-230/460V AC	3.0/1.50	½ in	3 ⅞ in	8 13⁄16 in	FC3056F	**2XJK4**
¾	1,140	200-230/460V AC	4.0/2.0	⅝ in	4 1⁄16 in	10 15⁄16 in	FC3076F	**2XJK5**
1	1,140	200-230/460V AC	5.6/2.8	⅝ in	4 1⁄16 in	11 ⅜ in	FC3106F	**3RCT6**
1 ½	1,120	200-230/460V AC	5.8/2.9	⅝ in	4 1⁄16 in	11 ⅜ in	FC3156F	**3RCT7**

20RK78

20RK77

Dayton®

3-Phase Condenser Fan Motors With INPRO Rings

- NEMA frame: 56YZ (6½" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: thermostat, except 20RK77 is auto
- Service factor: 1.0
- Insulation: Class F
- Inverter rated
- Mounting position: vertical shaft up
- Bearings: ball

Includes premounted INPRO grounding rings. Conduit entry located at shaft end. Keyed and flat shaft.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.
Band-Mount								
1	1,140	208-230/460V AC	4.3-4.3/2.1	⅝ in	5 ⅝ in	9 ¾ in	70 °C	**20RK80**
	850	208-230/460V AC	5.0-5.0/2.5	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**20RK79**
	825	208-230/460V AC	5.2-5.2/2.6	⅝ in	3 in	10 ¼ in	60 °C	**20RK78**
1 ½	1,140	208-230/460V AC	5.3-5.3/2.6	⅝ in	5 ⅝ in	10 ¼ in	70 °C	**20RK82**
2	1,140	208-230/460V AC	7.8-7.8/3.9	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**20RK83**
Rigid Base-Mount								
½	575	230/460V AC	3.1/1.60	⅝ in	3 ¼ in	10 ¾ in	60 °C	**20RK77**
1	1,140	208-230/460V AC	4.3-4.3/2.1	⅝ in	5 ⅝ in	9 ¾ in	70 °C	**20RK85**
	850	208-230/460V AC	5.0-5.0/2.5	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**20RK84**
1 ½	1,140	208-230/460V AC	5.3-5.3/2.6	⅝ in	5 ⅝ in	10 ¼ in	70 °C	**20RK87**
2	1,140	208-230/460V AC	7.8-7.8/3.9	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**20RK88**

48UT99

ECM Condenser Fan AC Motors

US MOTORS genteq

- Enclosure: Totally Enclosed Air-Over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Duty: continuous

Electronically commutated (EC) motors have a built-in microprocessor controller that allows the user to control the motor speed. They are more energy efficient than single-speed general purpose AC motors and can replace shaded pole and permanent split capacitor motors used in refrigeration and air conditioning equipment.

HP	Nameplate RPM	Frame	Body Dia.	Voltage	Full Load Amps	Ring to Ring Center	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Brand	Mfr. Model	Item No.
1-Speed, Rigid Base Mounting, Horizontal or Vertical Shaft Up													
2 ¼	1,200/300	56HZ	6 5⁄16 in	460V AC	2.7	—	⅝ in	3 ⅜ in	10 11⁄16 in	65 °C	U.S. Motors	6362EO	**54ZX80**
2 ½	1,200/300	56HZ	6 5⁄16 in	208-230V AC	6.5-5.8	—	⅝ in	3 ⅜ in	10 11⁄16 in	65 °C	U.S. Motors	6361EO	**54ZX79**
2-Speed, Stud Mounting, All Angle													
⅕	1,100/850	48	5 ⅝ in	208-230V AC	2.8	2 ½ in	½ in	3 in	5 ½ in	60 °C	Genteq	6301	**48UT99**
⅓	1,100/850	48	5 ⅝ in	208-230V AC	3.5	2 ½ in	½ in	3 in	6 in	60 °C	Genteq	6303	**48UU01**
2-Speed, Stud Mounting, Vertical Shaft Down													
⅓	1,075/825	48Y	5 ⅝ in	208-230V AC	2.5	3 11⁄16 in	½ in	4 ½ in	5 ⅝ in	60 °C	U.S. Motors	5561EO	**54ZX56**

3-Phase High-Ambient Condenser Fan Motors

Dayton®

24PR70

24PR76

- NEMA frame: 56YZ (5⅝" body dia.)
- Enclosure: open air-over
- Rotation: CW/CCW
- Thermal protection: thermostat, except 24PR76 is auto
- Service factor: 1.0
- Insulation: Class F
- Mounting position: vertical shaft up
- Bearings: ball
- Duty: continuous

Rugged design and features inverter-duty windings. Suitable for use in commercial air conditioners. Keyed and flat shaft.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Max. Ambient Temp.	Item No.
Band-Mount								
1	1,140	208-230/460V AC	4.3-4.3/2.1	⅝ in	5 ⅝ in	9 ¾ in	70 °C	**24PR72**
	850	208-230/460V AC	5.0-5.0/2.5	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**24PR71**
	825	208-230/460V AC	5.2-5.2/2.6	⅝ in	3 in	10 ¼ in	60 °C	**24PR70**
1 ½	1,140	208-230/460V AC	5.3-5.3/2.6	⅝ in	5 ⅝ in	10 ¼ in	70 °C	**24PR74**
2	1,140	208-230/460V AC	7.8-7.8/3.9	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**24PR75**
Rigid Base-Mount								
½	575	230/460V AC	3.1/1.60	⅝ in	3 ¼ in	10 ¾ in	60 °C	**24PR76**
1	1,140	208-230/460V AC	4.3-4.3/2.1	⅝ in	5 ⅝ in	9 ¾ in	70 °C	**24PR78**
	850	208-230/460V AC	5.0-5.0/2.5	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**24PR77**
1 ½	1,140	208-230/460V AC	5.3-5.3/2.6	⅝ in	5 ⅝ in	10 ¼ in	70 °C	**24PR80**
2	1,140	208-230/460V AC	7.8-7.8/3.9	⅝ in	5 ⅝ in	10 ¾ in	70 °C	**24PR81**

JuggerNaut 3-Phase High-Ambient Condenser Fan Motors

Century®

429J45

- NEMA frame: 56HZ (6½" body dia.)
- Enclosure: open air-over
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class F
- Inverter rated
- Mounting: base/stud/band
- Mounting position: horizontal or vertical shaft up
- Bearings: ball
- Max. ambient temp.: 70°C
- Duty: continuous
- Stud pattern: 4⅛" x 4⅛"

Replace OEM motors in commercial condenser fan applications. Energy-efficient design ensures performance in elevated temperatures. 56H rigid base is easy to remove for mounting flexbility (except 429J46 and 490T58 do not have a removable base). Feature an innovative VCM (voltage change module) to ease installation and a large water slinger to help protect bearings. 60/50 Hz.

HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
1	1,140	200-230/460V AC	4.0-3.8/2.0	⅝ in	6 in	10 ⅜ in	H1050AV1	**429J40**
	850	208-230/460V AC; 190/380V AC	5.4-5.1/2.7	⅝ in	6 in	12 ½ in	H1053RBV1	**490T58**
	850	208-230/460V AC	5.4-5.1/2.7	⅝ in	6 in	12 ⅞ in	H1053AV1	**429J44**
1 ½	850	208-230/460V AC	6.6-6.6/3.3	⅝ in	6 in	12 ½ in	H1054RBV1	**429J46**
	850	208-230/460V AC; 190/380V AC	6.6-6.6/3.3;6.0/3.0	⅝ in	6 in	12 ⅞ in	H1054AV1	**429J45**
2	1,140	208-230/460V AC	7.0-7.0/3.5	⅝ in	6 in	12 5⁄16 in	H1052AV1	**429J42**

3-Phase Condenser Fan Motors

Century®

429J38

4ME20

- NEMA frame: 56Y (6½" body dia.)
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting position: vertical shaft up, except 4MB89 and 4ME20 are all-angle
- Bearings: ball
- Max. ambient temp.: 60°C
- Duty: continuous

Energy-efficient motors have cooler running temperature to ensure longer life performance. For 5-ton and larger commercial outdoor condensers.

HP	Nameplate RPM	Motor Shaft Rotation	Voltage	Full Load Amps	Mounting	Shaft Dia.	Shaft Length	Length Less Shaft	Mfr. Model	Item No.
Open Air-Over										
½	1,140	CW/CCW	200-230/460V AC	1.30/2.8-2.6	Band/Stud	⅝ in	6 1⁄16 in	10 ¼ in	H564	**4MB87**
¾	1,140	CW/CCW	200-230/460V AC	1.50/3.0-2.8	Band/Stud	⅝ in	6 1⁄16 in	10 5⁄16 in	H567	**4MB85**
1	1,140	CW/CCW	200-230/460V AC	4.6-4.3/2.3	Stud	⅝ in	6 1⁄16 in	10 7⁄16 in	H667V1	**429J38**
	850	CW/CCW	200-230/460V AC	4.4-4.0/2.00	Band	⅝ in	5 in	9 5⁄16 in	H686	**4ME24**
1½	1,140	CW/CCW	200-230/460V AC	5.1-5.0/2.5	Stud	⅝ in	6 3⁄16 in	10 13⁄16 in	H767V1	**429J39**
	1,140	CW/CCW	200-230/460V AC	5.1-5.0/2.5	Rigid Base	⅝ in	6 in	11 5⁄16 in	56T110RR40003A2	**4ME22**
2	1,140	CW/CCW	208-230/460V AC	3.1/6.8-6.2	Band	⅝ in	6 3⁄16 in	12 in	H699	**4MB89**
Totally Enclosed Air-Over										
1	1,140	CW/CCW	200-230/460V AC	3.8-3.6/1.80	Rigid Base	⅝ in	3 9⁄16 in	11 9⁄16 in	H685V1	**4ME20**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

2HTK8

2HTL6

2HTK9

Split-Phase Evaporative Cooler AC Motors

- Enclosure: open dripproof
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting position: all angle
- Bearings: ball
- Ring dia.: 2½"

These motors are single phase with a lower starting torque for softer startup where the cooling fan must gradually come up to speed after startup. They power the fans inside evaporative coolers that move air into the unit to cool the air and then recirculate it into the surrounding area.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Rotation	Max. Ambient Temp.	Brand	Mfr. Model	Item No.
1-Speed, Cradle Base Mount												
½	1,725	56Z	115V AC	7.8	½ in	1 ½ in	7 15/16 in	CW/CCW	40 °C	Century	VB2054BV1	**2HTK8**
⅓	1,725	56Z	115V AC	6.5	½ in	1 ½ in	7 15/16 in	CW/CCW	40 °C	Century	VB2034BV1	**2HTK4**
¾	1,725	56	115V AC	10.6	⅝ in	1 ⅞ in	7 15/16 in	CW/CCW	40 °C	Century	VB2074BV1	**2HTL3**
1-Speed, Ring Mount												
½	1,725	56Z	115V AC	7.8	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	VB2054V1	**2HTK7**
	1,725	56	230V AC	4.8	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.5018OS1DEC56	**6AYP5**
	1,725	56	115V AC	8.2	½ in	1 11/16 in	7 ⅞ in	CWSE	40 °C	Weg	.5018OS1AEC56	**6AYP8**
⅓	1,725	56Z	115V AC	6.5	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	VB2034V1	**2HTK3**
	1,725	56	115V AC	6.6	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.3318OS1AEC56	**6AYP7**
¾	1,725	56Z	115V AC	10.6	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	VB2074V1	**2HTL2**
	1,725	56Z	115V AC	10.7	½ in	1 ⅝ in	7 13/16 in	—	40 °C	U.S. Motors	6769	**55MM54**
2-Speed, Cradle Base Mount												
⅓, ¾	1,725/1,140	56	115V AC	9.8/6.4	⅝ in	1 ⅞ in	7 15/16 in	CW/CCW	40 °C	Century	SVB2074BV2	**2HTL6**
⅓, 1/6	1,725/1,140	56Z	115V AC	6.9/3.4	½ in	1 ½ in	7 15/16 in	CW/CCW	40 °C	Century	SVB2034BV1	**2HTK6**
2-Speed, Ring Mount												
½, 1/6	1,725/1,140	56Z	115V AC	8.5/4.1	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	SVB2054V1	**2HTK9**
	1,725/1,140	56Z	230V AC	4.4/2.0	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	SVB2054HV1	**2HTL1**
	1,800/1,200	56	115V AC	8.2/4.6	½ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.5082OS1AEC56	**6AYN9**
	1,800/1,200	56	230V AC	4.8/2.1	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.5082OS1DEC56	**6AYP2**
⅓, 1/10	1,725/1,140	56Z	115V AC	6.9/4.0	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	SVB2034V1	**2HTK5**
⅓, 1/9	1,800/1,200	56	115V AC	6.6/3.7	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.3382OS1AEC56	**6AYN8**
¾, ¼	1,725/1,140	56Z	115V AC	10.5/5.0	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	SVB2074V1	**2HTL4**
	1,725/1,140	56Z	230V AC	5.6/2.8	½ in	1 ½ in	7 15/16 in	CCWLE	40 °C	Century	SVB2074HV1	**2HTL5**

5DVX1

6AYP6

Capacitor-Start Evaporative Cooler AC Motors

- Enclosure: open dripproof
- Thermal protection: auto
- Service factor: 1.0, except 5DVX1 is 1.25
- Insulation: Class B
- Mounting position: all angle
- Duty: continuous
- Ring dia.: 2½"

These evaporative cooler AC motors have a capacitor that provides additional power during startup for higher starting torque. They power the fans inside evaporative coolers that move air into the unit to cool the air and then recirculate it into the surrounding area. The higher torque allows these single-phase motors to move heavier loads at lower speeds.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Bearings	Shaft Dia.	Shaft Length	Length Less Shaft	Rotation	Max. Ambient Temp.	Brand	Mfr. Model	Item No.
1-Speed, Cradle Base Mount													
1	1,725	56	115/208-230V AC	14.4/7.2-6.6	Ball	⅝ in	1 ⅞ in	9 15/16 in	CW/CCW	40 °C	Century	V1104BL	**5DVX1**
1-Speed, Ring Mount													
¾	1,725	56	230V AC	5.5	Ball	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.7518OS1DEC56	**6AYP6**
	1,800	56	115V AC	10.4	Ball	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.7518OS1AEC56	**6AYP9**
2-Speed, Cradle Base Mount													
1	1,725/1,140	56Z	115V AC	12.7/7.6	Sleeve	⅝ in	2 ⅛ in	9 15/16 in	CCWLE	40 °C	Century	SV2104V1L1	**38P091**
1 ⅓	1,725/1,140	56Z	230V AC	6.4/3.9	Sleeve	⅝ in	2 ⅛ in	9 15/16 in	CW/CCW	40 °C	Century	SV2104HV2	**6FJF4**
2-Speed, Ring Mount													
¾, ¼	1,725/1,140	56	115V AC	10.3	Ball	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.7582OS1AEC56	**6AYP0**
	1,725/1,140	56	230V AC	5.5	Ball	⅝ in	1 ⅞ in	7 ⅞ in	CWSE	40 °C	Weg	.7582OS1DEC56	**6AYP3**
1, ⅓	1,725/1,140	56	230V AC	6.5	Ball	⅝ in	1 ⅞ in	8 ⅞ in	CWSE	40 °C	Weg	00182OS1DEC56	**6AYP4**

4UE51

Capacitor-Start/Run Evaporative Cooler AC Motors

- Enclosure: open dripproof
- Thermal protection: auto
- Insulation: Class B
- Mounting position: all angle
- Bearings: ball
- Duty: continuous
- Ring dia.: 2½"

Feature a main winding and an auxiliary winding with both a start capacitor and a run capacitor for additional power during startup for higher torque and higher operating efficiency when powering the fans inside evaporative coolers. The fans move air into the unit to cool the air and then recirculate it into the surrounding area.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Motor Service Factor	Shaft Dia.	Shaft Length	Length Less Shaft	Rotation	Max. Ambient Temp.	Brand	Mfr. Model	Item No.
1-Speed, Cradle Base Mount													
1 ½	1,725	56Z	115/230V AC	14.0/7.0	1	⅞ in	2 ¼ in	11 1/16 in	CW/CCW	40 °C	Century	V1154BV1	**4UE51**
2	1,725	56Z	115/230V AC	17.0/8.5	1.15	⅞ in	2 ¼ in	11 ½ in	CW/CCW	40 °C	Century	56B17DRS40004A2A	**4UE50**
2-Speed, Ring Mount													
1, ⅓	1,725/1,140	56	115V AC	12.1	1	⅝ in	1 ⅞ in	8 ⅞ in	CWSE	40 °C	Weg	00182OS1AEC56	**6AYP1**

6FFH0

3-Phase Evaporative Cooler AC Motors

- Enclosure: open dripproof
- Mounting position: all angle

Highly efficient AC motors power the fans inside evaporative coolers that move air into the unit to cool the air and then recirculate it into the surrounding area. They have a high starting torque compared to single-phase models of the same HP, rpm, and frame size. Motors require no capacitors to start or run which can wear out and fail.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Shaft Dia.	Rotation	Max. Ambient Temp.	Mfr. Model	Item No.
1-Speed, Rigid Base Mount									
¾	1,800	56	208-230/460V AC	3.5-3.2/1.60	⅝ in	CWSE	40 °C	110461	**6FFH3**
3	1,800	182T	208-230/460V AC	10.6-9.6/4.8	1 ⅛ in	CWSE	40 °C	110465-9	**6FFH0**
5	1,800	184T	208-230/460V AC	16.7-15.2/7.6	1 ⅛ in	CWSE	40 °C	110466-9	**6FFH1**

Dayton®

Direct-Drive and Belt-Drive Ventilator Motors

- Thermal protection: auto, except for 4YU38, 4YU39, 4YU40, and 6XWJ0
- Max. ambient temp.: 40°C, except 4YU31 is 65°C
- Duty: continuous
- Permanent split capacitor motors include capacitor

Designed specifically as replacement motors for Dayton® ventilators.

4HZ61

4YU22

6XWJ0

HP	Nameplate RPM	Frame	Enclosure	Rotation	Voltage	Full Load Amps	Mounting	Bearings	Shaft Dia.	Shaft Length	Item No.
Direct-Drive, Shaded Pole											
1/30	1,550/1,300/1,050	3.3	Open Air-Over	CCWSE	115V AC	1.30	Stud	Sleeve	5/16 in	3 in	**4YU32**
1/25	1,550/1,300/1,050	3.3	Open Air-Over	CCWSE	115V AC	1.60	Stud	Sleeve	5/16 in	3 in	**4YU33**
	1,550	3.3	Open Air-Over	CCWSE	115V AC	1.40	Stud	Ball	5/16 in	3 in	**4HZ66**
1/20	1,550/1,300/1,050	4.4	Open Air-Over	CCWSE	115V AC	2.0	Stud	Sleeve	1/2 in	2 3/4 in	**1AGF8**
Direct-Drive, Permanent Split Capacitor											
1/12	850	48Y	Open Air-Over	CCWSE	115V AC	1.60	Stud	Ball	1/2 in	3 in	**4HZ62**
	850	48Y	Open Air-Over	CCWSE	115V AC	1.60	Stud	Ball	5/8 in	3 in	**4HZ64**
1/8	1,750	48YZ	Totally Enclosed Air-Over	CWLE	115V AC	1.70	Stud	Ball	1/2 in	4 1/2 in	**4YY56**
	1,550/1,300/1,050	48Y	Totally Enclosed Air-Over	CCWSE	115V AC	1.70	Stud	Sleeve	1/2 in	3 3/4 in	**1AGF9**
	1,550/1,300/1,050	42Y	Open Air-Over	CCWSE	115V AC	2.6	Stud	Ball	1/2 in	2 3/4 in	**4YU34**
	860	48Y	Open Air-Over	CW/CCW	115V AC	2.0	Stud	Sleeve	1/2 in	2 1/2 in	**4YU19**
1/6	1,650	48YZ	Open Air-Over	CCWSE	115V AC	2.3	Stud	Ball	1/2 in	3 in	**4HZ60**
	1,140	48Y	Open Air-Over	CW/CCW	115V AC	2.2	Stud	Ball	1/2 in	2 1/2 in	**4YU23**
	1,140	48Y	Open Air-Over	CW/CCW	115V AC	2.2	Stud	Ball	1/2 in	4 in	**5BE62**
	850	48Y	Open Air-Over	CCWSE	115V AC	2.4	Stud	Ball	5/8 in	3 in	**4HZ68**
1/4	1,725	48Y	Open Air-Over	CW/CCW	115V AC	3.6	Rigid Base	Ball	1/2 in	3 1/4 in	**4YU27**
	1,725	48Y	Open Air-Over	CW/CCW	115V AC	4.2	Stud	Ball	1/2 in	3 1/4 in	**5BE52**
	1,140	48	Open Air-Over	CW/CCW	115V AC	3.2	Stud	Ball	1/2 in	2 1/2 in	**4YY54**
	860	56Z	Open Dripproof	CW/CCW	115V AC	4.8	Cradle Base	Ball	5/8 in	2 3/4 in	**4YU20**
	850	48Y	Open Air-Over	CCWSE	115V AC	3.2	Stud	Ball	5/8 in	3 in	**4HZ65**
1/3	1,650	48Y	Open Air-Over	CW/CCW	115V AC	4.0	Stud	Ball	1/2 in	3 in	**4HZ67**
	1,140	56Z	Open Air-Over	CW/CCW	115V AC	4.7	Stud	Ball	5/8 in	2 3/4 in	**5BE64**
	1,100	48Y	Open Air-Over	CCWSE	115V AC	4.1	Stud	Ball	5/8 in	3 in	**4HZ69**
	1,100	56Z	Open Dripproof	CW/CCW	115V AC	4.7	Cradle Base	Ball	5/8 in	2 3/4 in	**4YU24**
	1,100	56Z	Open Dripproof	CW/CCW	115V AC	4.7	Face	Ball	5/8 in	4 1/4 in	**6TWL4**
	860	56HZ	Open Air-Over	CW/CCW	115V AC	5.5	Cradle Base	Ball	5/8 in	3 1/4 in	**4YU21**
	850	48Y	Open Air-Over	CCWSE	115V AC	4.1	Stud	Ball	5/8 in	3 in	**4HZ70**
1/2	1,725	48Z	Open Air-Over	CW/CCW	115/230V AC	6.0/3.0	Rigid Base	Ball	1/2 in	3 in	**4YU28**
	1,725	48Z	Open Dripproof	CW/CCW	115/230V AC	6.0/3.0	Stud	Ball	1/2 in	3 in	**5BE54**
	1,650	48Y	Open Air-Over	CCWSE	115/230V AC	8.0-4.0	Stud	Ball	5/8 in	3 in	**4HZ63**
	1,140	56Z	Open Air-Over	CW/CCW	115/230V AC	5.4/2.7	Stud	Ball	5/8 in	2 3/4 in	**5BE66**
	1,100	48Y	Open Air-Over	CCWSE	115/230V AC	5.2-2.4	Stud	Ball	5/8 in	3 in	**4HZ61**
	860	48Z	Open Air-Over	CW/CCW	115/230V AC	6.0/3.0	Rigid Base	Ball	1/2 in	3 in	**4YU22**
3/4	1,725	48Z	Open Air-Over	CW/CCW	115/230V AC	7.0/3.5	Rigid Base	Ball	1/2 in	3 in	**4YU29**
	1,725	48Z	Open Air-Over	CW/CCW	115/230V AC	7.0/3.5	Stud	Ball	1/2 in	2 1/2 in	**5BE56**
	1,140	48Z	Open Air-Over	CW/CCW	115/230V AC	8.0/4.0	Rigid Base	Ball	1/2 in	3 in	**4YY55**
	1,100	48Y	Open Air-Over	CCWSE	115/230V AC	10.0-5.0	Stud	Ball	5/8 in	3 1/4 in	**4HZ71**
1	1,140	48Z	Open Air-Over	CW/CCW	115/230V AC	11.4/5.7	Rigid Base	Ball	1/2 in	3 in	**4YU26**
	1,140	48Z	Open Air-Over	CW/CCW	115/230V AC	11.4/5.7	Stud	Ball	5/8 in	3 in	**5BE68**
Direct-Drive, Capacitor-Start											
3/4	1,725	56	Open Dripproof	CW/CCW	115/208-230V AC	10.6	Cradle Base	Ball	5/8 in	1 7/8 in	**4YU35**
1	1,725	56Z	Open Dripproof	CW/CCW	115/208-230V AC	12.8/6.4-6.4	Stud	Ball	5/8 in	2 3/8 in	**5BE58**
1 1/2	1,725	56Z	Open Dripproof	CW/CCW	115/208-230V AC	13.2/7.2-6.6	Stud	Ball	5/8 in	2 1/4 in	**5BE60**
Direct-Drive, 3-Phase											
1	1,725	56	Open Dripproof	CW/CCW	208-230/460V AC	3.4-3.4/1.70	Rigid Base	Ball	5/8 in	1 7/8 in	**4YU38**
1 1/2	1,725	56H	Open Dripproof	CW/CCW	208-230/460V AC	4.8-4.8/2.4	Rigid Base	Ball	5/8 in	1 7/8 in	**4YU39**
2	1,725	56H	Open Dripproof	CW/CCW	208-230/460V AC	6.2-6.2/3.1	Rigid Base	Ball	5/8 in	1 7/8 in	**4YU40**
3	1,725	182T	Open Dripproof	CW/CCW	208-230/460V AC	8.5-8.0/4.0	Rigid Base	Ball	1 1/8 in	2 3/4 in	**6XWJ0**
Belt Drive, Capacitor-Start											
1/4	1,725	48YZ	Open Dripproof	CW/CCW	115/208-230V AC	6.2/2.8-3.1	Cradle Base	Ball	1/2 in	1 7/8 in	**1AGG1**
1/3	1,725	48Z	Open Dripproof	CW/CCW	115/208-230V AC	5.8/3.1-2.9	Cradle Base	Ball	1/2 in	1 7/8 in	**1AGG2**
1/2	1,725	56	Open Dripproof	CW/CCW	115/208-230V AC	7.2/3.6-3.6	Cradle Base	Ball	5/8 in	1 7/8 in	**1AGG3**
1	1,725	56	Open Dripproof	CW/CCW	115/208-230V AC	12.8/6.4-6.4	Cradle Base	Ball	5/8 in	1 7/8 in	**4YU30**
1 1/2	1,725	56H	Open Dripproof	CW/CCW	115/208-230V AC	13.2/7.2-6.6	Rigid Base	Ball	5/8 in	2 1/4 in	**4YU31**

Motor to Ventilator Cross Reference

Motor	Ventilator (Used In)						
Belt Drive							
1AGG1	1MBE6	2RB59	2RB60	2RB61	3HFL6	20FT09	—
1AGG2	1MBE7	2RB62	—	—	—	—	—
1AGG3	1MBE8	2RB63	2RB64	3ATT8	3HFL7	—	—
4YU30	1MBE9	2TE33	3ATT9	3ATU7	3GY70	5PV07	7A626
4YU31	2TE34	3ATU5	3ATU9	3GY71	3HFL8	5PV08	—
4YU35	3ATU2	3ATU4	5PV06	—	—	—	—
4YU38	3ATU1	3ATU3	3GY66	—	—	—	—
4YU39	3ATU6	3GY67	—	—	—	—	—
4YU40	3ATU8	3GY68	3GY73	—	—	—	—
6XWJ0	2TE35	3ATV1	3GY69	3GY74	—	—	—

Motor	Ventilator (Used In)									
Direct Drive										
1AGF8	16D531	16D532	2RB53	5DVP0	5DVP1	5DVP2	5DVP3	5DVR7	—	—	—
1AGF9	2RB86	5TCK8	—	—	—	—	—	—	—	—	—
4YU19	4HZ44	4HZ46	4HZ48	4HZ50	4YC68	4YC70	4YC72	6KWK4	—	—	—
4YU20	4HZ52	4HZ54	4YC73	—	—	—	—	—	—	—	—
4YU21	4YC76	—	—	—	—	—	—	—	—	—	—
4YU22	4HZ56	4HZ58	—	—	—	—	—	—	—	—	—
4YU23	16D538	20FT10	20FT12	4HZ36	4HZ38	4HZ40	4HZ42	5DVR9	5DVT1	5TCL0	6KWK5
4YU24	4YY75	5TCL1	—	—	—	—	—	—	—	—	—
4YU26	4HZ57	4HZ59	—	—	—	—	—	—	—	—	—
4YU27	16D535	20FT11	20FT13	2RB87	4HZ37	4HZ39	4HZ41	4HZ43	4YC69	5DVT0	6KWK6
4YU28	16D536	16D537	4YC69	4YC71	5DVP8	5DVP9	5TCK9	—	—	—	—
4YU29	4HZ45	4HZ47	—	—	—	—	—	—	—	—	—
4YU32	16D528	16D529	4HZ32	4HZ34	4YC64	5DVN8	5DVN9	5DVR6	5TCK6	—	—
4YU33	16D530	4HZ33	4HZ35	4YC65	—	—	—	—	—	—	—
4YU34	16D534	4YC66	4YC67	5DVP6	5DVP7	—	—	—	—	—	—

Motor	Ventilator (Used In)			
Direct Drive				
4YY54	4HZ49	4HZ51	4YC73	—
4YY55	4HZ53	4HZ55	4YC77	—
4YY56	4YC86	—	—	—
5BE52	4YC88	4YC91	4YC92	4YC93
5BE54	4YC49	4YC56	4YC90	4YC94
5BE56	4YC57	4YC58	—	—
5BE58	4YC51	4YC59	—	—
5BE60	4YC53	4YC61	—	—
5BE62	4YC48	4YC87	4YC89	—
5BE64	4YC50	—	—	—
5BE66	4YC52	4YC54	4YC60	4YC62
5BE68	4YC55	4YC63	—	—
6TWL4	4YC72	—	—	—

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

4UX67

Stationary Pedestal Fan AC Motors

- Thermal protection: auto
- 60 Hz
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C; 60PV47 (100°C)
- Duty: continuous, except 60PV47 and 60PV48

Built-in yoke bracket or yoke strap for mounting the motor to the pedestal. Studs can be used to mount the fan guard directly to the motor's shaft end shield. Used as replacement motors in pedestal fans, some wall-mount fans, and can circulate air in factories, schools, warehouses, and other large indoor areas.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Overall Length	10 Ft. Cord and Pull Chain Switch	Brand	Mfr. Model	Item No.	Capacitor Req.
Permanent Split Capacitor, 1-Speed, Totally Enclosed Air-Over Enclosure														
⅓	825	48YZ	CW/CCW	115V AC	4.8	5 ⅝ in	½ in	2 ½ in	9 ⅞ in	Yes	Dayton	4UX64	**4UX64**	Included
½	825	48YZ	CW/CCW	115V AC	6.4	5 ⅝ in	⅝ in	1 ⅞ in	10 in	No	Dayton	4UX59	**4UX59**	Included
Permanent Split Capacitor, 1-Speed, Totally Enclosed Nonventilated Enclosure														
¼	1,625	48Z	CW/CCW	115/230V AC	3.6/1.80	5 ¹¹⁄₁₆ in	½ in	2 ½ in	10 ⁹⁄₁₆ in	No	Marathon	048A17T2005	**32PF71**	Included
¼	1,075	48Y	CCWSE	115/230V AC	2.4/1.20	5 ⅝ in	½ in	2 ½ in	—	—	Leeson	191891.00	**60PV48**	No
½	1,625	R48Y	CCWSE	115/230V AC	4.6/2.3	5 ⅝ in	½ in	2 ½ in	—	—	Leeson	191873.00	**60PV47**	No
Permanent Split Capacitor, 2-Speed, Open Air-Over Enclosure														
¼	1,075	48YZ	CWSE	115V AC	3.1	5 ⅝ in	½ in	3 ¾ in	10 ¾ in	Yes	Dayton	4UX60	**4UX60**	Included
Permanent Split Capacitor, 2-Speed, Totally Enclosed Air-Over Enclosure														
¼	1,075	48YZ	CW/CCW	115V AC	3.1	5 ⅝ in	½ in	2 ½ in	10 ³⁄₁₆ in	No	Dayton	3M504	**3M504**	Included
¼	1,075	48YZ	CWSE	115V AC	3.1	5 ⅝ in	½ in	3 in	9 ¹¹⁄₁₆ in	Yes	Dayton	4UX61	**4UX61**	Included
⅓	1,075	48YZ	CW/CCW	115V AC	5.3	5 ⅝ in	½ in	2 ½ in	10 ⁹⁄₁₆ in	No	Dayton	3M469	**3M469**	Included
⅓	1,075	48Y	CWSE	115V AC	5.3	5 ⅝ in	½ in	2 ½ in	10 ⅝ in	Yes	U.S. Motors	1935	**55ML51**	Yes
½	1,075	48YZ	CW/CCW	115V AC	7.2	5 ⅝ in	⅝ in	2 ½ in	10 ¹³⁄₁₆ in	No	Dayton	3M505	**3M505**	Included
½	1,075	48YZ	CWSE	115V AC	5.8	5 ⅝ in	⅝ in	3 ¹⁄₁₆ in	10 ⁷⁄₁₆ in	Yes	Dayton	4UX63	**4UX63**	Included
Split-Phase, 1-Speed, Open Air-Over Enclosure														
¼	1,725	48YZ	CW/CCW	115V AC	4.9	5 ⅝ in	½ in	2 in	9 ½ in	No	Dayton	6K403	**6K403**	No
¼	1,725	48YZ	CWSE	115V AC	4.9	5 ⅝ in	⅝ in	2 in	10 in	Yes	Dayton	4UX66	**4UX66**	No
⅓	1,725	48YZ	CW/CCW	115V AC	4.8	5 ⅝ in	½ in	2 in	10 ⅛ in	No	Dayton	6K410	**6K410**	No
⅓	1,725	48YZ	CW/CCW	115V AC	4.8	5 ⅝ in	⅝ in	2 in	10 in	Yes	Dayton	4UX68	**4UX68**	No
½	1,725	48YZ	CW/CCW	115V AC	7.9	5 ⅝ in	⅝ in	2 in	10 ⅛ in	No	Dayton	6K405	**6K405**	No
½	1,725	48YZ	CW/CCW	115V AC	6.5	5 ⅝ in	⅝ in	2 ½ in	10 in	Yes	Dayton	4UX65	**4UX65**	No
Split-Phase, 1-Speed, Totally Enclosed Air-Over Enclosure														
¼	1,725	48YZ	CW/CCW	115V AC	4.5	5 ⅝ in	½ in	2 in	10 in	No	Dayton	6K406	**6K406**	No
¼	1,725	48YZ	CWSE	115V AC	4.5	5 ⅝ in	⅝ in	2 in	10 in	Yes	Dayton	4UX67	**4UX67**	No
⅓	1,725	48YZ	CW/CCW	115V AC	4.8	5 ⅝ in	½ in	2 in	10 ⅛ in	No	Dayton	6K807	**6K807**	No
½	1,725	48YZ	CW/CCW	115/230V AC	6.9/3.5	5 ⅝ in	⅝ in	2 in	10 ¼ in	No	Dayton	6K411	**6K411**	No
½	1,725	48YZ	CW/CCW	115V AC	6.6	5 ⅝ in	⅝ in	2 in	10 ⅜ in	No	Dayton	6K809BG	**6K809**	No

4C354

Oscillating Pedestal Fan AC Motors

- Thermal protection: auto
- 60 Hz
- Service factor: 1.0
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

For use with air circulators where the motor is mounted directly to the fan column. Studs can be used to mount the fan guard directly to the motor's shaft end shield. Used as replacement motors in oscillating pedestal fans and can circulate air in factories, schools, warehouses, and other large indoor areas.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Body Dia.	Shaft Dia.	Shaft Length	Overall Length	10 Ft. Cord and Pull Chain Switch	Item No.	Capacitor Req.
Permanent Split Capacitor, 2-Speed, Totally Enclosed Air-Over Enclosure												
¼	1,075/875	48YZ	CWSE	115V AC	2.8	5 ⅝ in	½ in	3 ⅛ in	13 ¹⁵⁄₁₆ in	Yes	**4C354**	Included
½	1,075/875	48YZ	CWSE	115V AC	4.5	5 ⅝ in	⅝ in	3 ¹⁄₁₆ in	13 ¹⁵⁄₁₆ in	Yes	**5C040**	Included

42LD14

42LD22

Replacement Motors for Spot Cooling and People Cooling

- Frame: non-standard
- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Service factor: 1.0
- Bearings: ball
- Max. ambient temp.: 40°C
- Capacitor included

These direct drive, permanent split capacitor (PSC) motors have a capacitor that decreases the amount of power consumed for a given load making them more energy efficient than shaded pole motors. They provide smooth, soft, start-ups in fans, blowers, and are replacements for select Dayton ventilators.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Motor Mounting Type	Shaft Dia.	Shaft Length	Replacement For	Item No.
1 Speed, 4.9 in Body Dia.									
¹⁄₁₅	1,650	CWSE	115V AC	1.20	Yoke	½ in	3 in	Dayton 1ZCN7D	**42LD24**
1 Speed, 5.7 in Body Dia.									
½	1,100	CWSE	115V AC	4.2	Yoke	½ in	3 in	Dayton 4VAC5D	**42LD16**
½	1,670	CWSE	115/230V AC	5.2/2.6	Yoke	½ in	3 in	Dayton 4VAC6D, Dayton 4VAC7D	**42LD17**
⅓	1,100	CWSE	115V AC	3.6	Yoke	½ in	3 in	Dayton 4VAC4D	**42LD15**
¼	1,100	CWSE	115V AC	2.8	Yoke	½ in	3 in	Dayton 4VAC3D	**42LD14**
1 Speed, 6.5 in Body Dia.									
1	1,100	CWSE	115V AC	10.0	Base	⅝ in	2 ½ in	Dayton 1LXN4D	**42LD18**
1 Speed, 6.8 in Body Dia.									
½	1,100	CWSE	115/230V AC	4.3/2.3	Yoke	⅝ in	3 in	Dayton 1VCG2D	**42LD21**
⅓	1,100	CWSE	115/230V AC	3.6/1.8	Yoke	½ in	3 in	Dayton 1VCG1D	**42LD20**
¼	1,100	CWSE	115/230V AC	2.9/1.50	Yoke	½ in	3 in	Dayton 1VCF9D	**42LD19**
2 Speed, 5.7 in Body Dia.									
½	1,100/850	CWSE	115V AC	4.2/3.3	Yoke	½ in	3 in	Dayton 1VCH5D	**42LD23**
⅓	1,100/850	CWSE	115V AC	3.6/3.0	Yoke	½ in	3 in	Dayton 1VCH4D	**42LD22**

Cradle Base
4LY82

Stud
4LY86

Ring/Stud
4UE30

Permanent Split Capacitor Unit Heater Motors

- Enclosure: totally enclosed air-over
- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Duty: continuous

Provide smooth and softer startups for fans and blowers that must gradually come up to speed after startup. They have a capacitor that decreases the amount of power consumed for a given load. Use with unit heaters and other shaft-mounted fan and blower equipment in dusty, dirty, noncombustible environments. Cradle base models have 1" x 5⁄16" mounting slots in a 1 11⁄16" x 3½" pattern.

HP	Nameplate RPM	Voltage	Full Load Amps	Ins. Class	Motor Mounting Type	Bearings	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Ring Dia.	Ring to Ring Center	Stud Pattern	Max. Ambient Temp.	Item No.
1-Speed, 42Y Frame															
⅛	1,075	115V AC	2.1	A	Cradle Base	Sleeve	5 in	½ in	2 ⅞ in	4 15⁄16 in	2 ½ in	4 9⁄16 in	—	40°C	**4LY82**
1-Speed, 48Y Frame															
⅙	1,075	115V AC	2.00	B	Stud	Ball	5 ⅝ in	½ in	3 ¾ in	5 ⅛ in	—	—	3⅝" x 3⅝" SE, 4½" x 2 9⁄16" SE	60°C	**4LY86**
	1,075	115V AC	2.00	B	Stud	Ball	5 ⅝ in	½ in	3 ¾ in	5 ⅛ in	—	—	3⅝" x 3⅝" OSE, 4½" x 2 9⁄16" SE	60°C	**4LY94**
	1,075	115V AC	2.00	B	Ring/Stud	Ball	5 ⅝ in	½ in	5 ½ in	5 ⅛ in	2 ½ in	4 13⁄16 in	3⅝" x 3⅝" SE, 4½" x 2 9⁄16" SE	60°C	**4UE26** †
¼	1,140	115/208-230V AC	3.1, 1.60	B	Cradle Base	Ball	5 ⅝ in	½ in	5 5⁄64 in	7 ¼ in	2 ¼ in	6 ⅞ in	3⅝" x 3⅝" SE	60°C	**4HCJ2**
	1,075	115V AC	4.1	B	Stud	Ball	5 ⅝ in	½ in	3 in	5 ¼ in	—	—	3⅝" x 3⅝" SE, 4½" x 2 9⁄16" SE	40°C	**4LY90**
	1,075	115V AC	4.1	B	Ring/Stud	Ball	5 ⅝ in	½ in	5 ½ in	5 ¼ in	2 ½ in	4 15⁄16 in	3⅝" x 3⅝" SE, 4½" x 2 9⁄16" SE	40°C	**4UE27** †
	1,075	208-230V AC	1.10	B	Ring/Stud	Ball	5 ⅝ in	½ in	5 ½ in	5 ¼ in	2 ¼ in	4 15⁄16 in	3⅝" x 3⅝" SE	40°C	**4UE30** †
⅓	1,075	115V AC	5.0	A	Stud	Ball	5 ⅝ in	½ in	3 in	5 ⅝ in	2 ½ in	5 3⁄16 in	3⅝" x 3⅝" SE, 4⅝" x 2 5⁄16" SE	40°C	**4HCH8**
	1,075	115V AC	5.0	A	Ring/Stud	Ball	5 ⅝ in	½ in	5 ½ in	5 ⅝ in	2 ½ in	5 3⁄16 in	3⅝" x 3⅝" SE, 4½" x 2 9⁄16"SE	40°C	**4UE28** †
½	1,140	115/208-230V AC	5.6, 2.8	B	Cradle Base	Ball	5 ⅝ in	½ in	5 1⁄64 in	8 ¼ in	2 ¼ in	7 ⅞ in	3⅝" x 3⅝" SE	60°C	**4HCH7**
2-Speed, 48Y Frame															
⅓	1,100	115V AC	4.3-1.80	B	Ring/Stud	Ball	5 ⅝ in	½ in	5 in	6 ⅛ in	2 ¼ in	5 11⁄16 in	3⅝" x 3⅝" SE	40°C	**4LY92** *
	1,100	230V AC	1.70-1.10	B	Ring/Stud	Ball	5 ⅝ in	½ in	5 in	6 ⅛ in	2 ¼ in	5 11⁄16 in	3⅝" x 3⅝" SE	40°C	**4LY88** *

** Includes split rings to increase ring dia. from 2¼" to 2½". † Unassembled cradle base.*

4MA18

4MA22

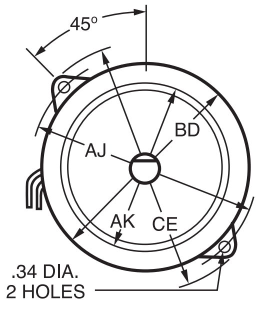
4MA30

1-Phase Flange-Mount Oil Burner Motors

- Thermal protection: manual
- Max. ambient temp.: 40°C

These motors power the fan and oil pump inside an oil burner unit. They have a NEMA oil burner flange for direct coupling to domestic oil burners and feature quick-change reversing terminals. Capacitor-start motors include capacitor.

HP	Nameplate RPM	Frame	Rotation	Voltage	Full Load Amps	Service Factor	Motor Design	Bearings	Brand	Mfr. Model	Item No.
Open, Ventilated Flange											
¼	3,450	48N	CW/CCW	115V AC	3.4	1	Split-Phase	Sleeve	Century	EL2022	**4MA18**
⅓	1,725	48N	CW/CCW	115V AC	4.3	1	Split-Phase	Sleeve	Century	OL2034	**4MA20**
Open Air-Over, Ventilated Flange											
⅙	3,450	48MZ	CW/CCW	115V AC	2.7	1	Split-Phase	Ball	Marathon	048S34S2005	**454X81**
⅕	3,450	48N	CW/CCW	115/230V AC	3.0/1.50	1	Capacitor-Start	Ball	Marathon	048C34S24	**454X83**
¼	3,450	48NZ	CW/CCW	115V AC	4.2	1	Split-Phase	Sleeve	Marathon	048S34S2003	**454X84**
	1,725	48N	CW/CCW	115V AC	3.9	1	Split-Phase	Ball	Marathon	048S17S25	**454X85**
Open Dripproof, Nonventilated Flange											
⅓	3,450	48N	CW/CCW	115/230V AC	4.2/2.1	1.35	Capacitor-Start	Sleeve	Century	OL1032D	**4MA22**
	3,450	48NZ	CW/CCW	115/208-230V AC	5.6/2.8-2.7	1	Capacitor-Start	Ball	Marathon	048C34D2024	**454X87**
½	3,450	48N	CW/CCW	115/230V AC	6.4/3.2	1.25	Capacitor-Start	Sleeve	Century	OL1052DS	**4MA24**
	3,450	48NZ	CW/CCW	115/208-230V AC	7.4/3.7-3.5	1	Capacitor-Start	Ball	Marathon	048C34D2028	**454X90**
Totally Enclosed Air-Over, Nonventilated Flange											
⅓	1,725	48N	CW/CCW	115V AC	4.3	1	Split-Phase	Sleeve	Century	EL2034	**4MA30**
Totally Enclosed Nonventilated, Nonventilated Flange											
⅛	1,725	48N	CW/CCW	115V AC	2.6	1	Split-Phase	Ball	Marathon	048S17T286	**454X79**
	3,450	48N	CW/CCW	115V AC	2.4	1	Split-Phase	Ball	U.S. Motors	2097	**55ML64**
⅙	1,725	48NZ	CW/CCW	115V AC	2.9	1	Split-Phase	Ball	Marathon	048S17T290	**454X82**
Totally Enclosed Nonventilated, Ventilated Flange											
⅓	3,450	48N	CW/CCW	115V AC	4.9	1	Split-Phase	Sleeve	Marathon	5KH33GN5014U	**454X88**



NEMA 48M, and 48N Flange Mount Dimensions: Oil Burner Motors

	48M	48N
AJ	6¾"	7¼"
BD	6¼" Max.	7" Max.
AK	5½"	6⅜"
CE	7¾" Max.	8¼" Max.

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Find Replacement Parts, Couplers, and Bearing Assemblies on page 2660.

Cradle Base-Mount, Split-Phase

Cradle Base-Mount, Capacitor-Start

Face-Mount, 3-Phase

1- and 3-Phase Water Circulator Motors

Century®

- 1725 rpm
- Enclosure: open dripproof
- 60 Hz
- Insulation: Class B
- Ring dia.: 2½"

Power water circulation pumps for the transfer of hot water in hydronic heating systems and in water recirculation equipment. These exact replacement motors are fully interchangeable with specific motors on Bell & Gossett, Armstrong, Teel, and Taco brand circulator pumps.

HP	Frame	Rotation	Thermal Protection	Full Load Amps	Service Factor	Mounting	Bearings	Bolt Circle Dia.	Ring to Ring Center	Max. Ambient Temp.	Mfr. Model	Item No.
Split-Phase, 115V ACVAC												
1/12	48YZ	CCWLE	Auto	2.00	1	Cradle Base	Sleeve	4 5/8 in	6 11/16 in	50 °C	HW20084BL	**5ELL6**
1/6	48Z	CCWLE	Auto	3.5	1.75	Cradle Base	Sleeve	5 in	6 11/16 in	50 °C	HW2014BL	**5ELL7**
	48Z	CCWLE	Auto	3.5	1.75	Cradle Base	Sleeve	4 5/8 in	6 11/16 in	50 °C	HW2014B1L	**5ELL8**
1/4	48	CWLE	Auto	4.6	1.25	Cradle Base	Ball	5 7/8 in	8 3/8 in	50 °C	HW2024BL	**5ELN0**
	48Z	CW/CCW	Auto	3.5	1.75	Cradle Base	Sleeve	5 in	7 in	50 °C	HW2024B1L	**5DVX0**
1/3	48Z	CWLE	Auto	5.7	1.3	Cradle Base	Ball	5 7/8 in	8 15/16 in	50 °C	HW2034BL	**5ELN1**
Capacitor-Start/Run, 115/208-230V ACVAC												
3/4	56YZ	CW/CCW	Auto	7.4/4.1-3.7	1.5	Cradle Base	Ball	5 13/16 in	9 3/16 in	50 °C	A56B17DRZ40002A2A	**4UE18**
3-Phase, 208-230/460V ACVAC												
3/4	56CZ	CW/CCW	None	2.7-2.8/1.4	1.5	Face	Ball	5 7/8 in	—	50 °C	H1042L	**5DVU8**
1	56CZ	CW/CCW	None	3.4-3.4/1.70	1.4	Face	Ball	5 7/8 in	—	50 °C	H1043L	**12N864**

OEM Hot Water Circulator Motor Cross Reference

Grainger Item No.	OEM Motor Found on Page 2660	Armstrong Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model	B&G Model
4UE18	**3CFE3**	811757-002	111047	M80082	M80081	MAGOOD-7606B	169051	MOT259-6	MOT260-6	MOT335-6	MOT925-6	M80077	—	—	—
5DVU8	—	831012-083	111049	M80039	M80080	MAGOOG-7606B	169053	MOT236-6	MOT237-6	MOT337-6	MOT922-6	—	—	—	—
5DVX0	**3CFD8**	—	111040	M10532	M95171	MBGOOA-2606B	MOT102-6	MOT309-6	MOT442-6	M95172	—	—	—	—	—
5ELL6	**3CFE7**	805316-010	111034	M09181	M09186	MOT101-5	MOT112-5	MOT113-5	MOT132-5	MOT133-5	M09180	—	—	—	—
5ELL7	**3CFE8**	817025-001	111031	111036	M10711	M10293	M10291	MOT109-6	MOT115-6	MOT300-6	MOT441-6	MOT911-6	M10294	—	—
5ELL8	**3CFE9**	817025-005	111061	M10711	M10293	M10292	—	—	—	—	—	—	—	—	—
5ELN0	—	816141-001	169035	M10534	M97185	MAGOOA-2606B	169040	MOT203-6	MOT314-6	—	—	—	—	—	—
5ELN1	**3CFE1**	816141-002	111042	M80121	M80026	MOT107-6	MOT108-6	MOT323-6	MOT325-6	111043	M10740	M10800	M80028	M80033	M80058
5ELN1	—	816141-002	169038	M80027	M80059	MAGOOD-3306B	169041	M80062	MOT326-6	MOT937-6	—	—	—	—	—

Lug-Mount

Draft Booster Motors

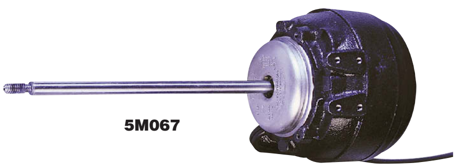
Dayton®

- Enclosure: open air-over
- Studs are 2.85" bolt center, #8-32 studs
- Bearings: ball
- Body dia.: 3.3"
- Max. ambient temp.: 40°C
- Duty: continuous
- Centrifugal safety switch

Required for most gas furnaces and help improve energy efficiency. Auxiliary contacts of SPST centrifugal safety switch are included and rated 120VA pilot duty. 1D089 also has 3 holes on 4.36" bolt circle.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Mounting	Shaft Dia.	Shaft Length	Contact Make	Contact Break	Item No.	
Shaded Pole, 60 Hz											
1/30	3,000	CCWSE	115/230V AC	1.30/0.65	Stud	1/4 in	3 3/4 in	2,500 RPM	800 RPM	**1D093**	*
1/25	3,200	CWSE	115V AC	1.75	Stud	5/16 in	1 5/16 in	2,500 RPM	800 RPM	**3M895**	
1/15	3,000	CWSE	115/230V AC	2.2/1.10	Stud	1/4 in	3 3/4 in	2,500 RPM	800 RPM	**1D092**	*
	3,000	CCWSE	115/230V AC	2.2/1.10	Stud	1/4 in	3 3/4 in	2,500 RPM	800 RPM	**1D094**	*
	3,000	CWSE	208-230V AC	1.10-1.10	Stud	1/4 in	3 3/4 in	2,500 RPM	800 RPM	**1D091**	*
Permanent Split Capacitor, 60/50 Hz											
1/9	3,000	CW/CCW	230V AC	0.60	Lug	1/4 in	3 3/4 in	1,800 RPM	800 RPM	**1D089**	*

** Includes 5/16" dia. shaft bushing.*



5M067

Shaded-Pole Unit-Bearing Water Agitator Motors

EM&S

- Enclosure: totally enclosed
- Rotation: CCW, facing shaft end
- Service factor: 1.0
- Mounting: double foot/rear
- Body dia.: 3 7/8"
- Max. ambient temp.: 40°C
- 5M067 has threaded shaft, 5M068 has 1" flat on shaft

OEM replacement motors for beverage dispensers manufactured by Cornelius, Lancer, Alco, Wilshire, Booth, K-Way, Multiplex, and Manitowoc beverage. Cast-iron with machined 400 Series stainless steel shaft. Include #8-36 mounting screws.

Output Watts	HP	Nameplate RPM	Thermal Protection	Voltage	Full Load Amps	Ins. Class	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
15 W	1/50	1,500	Auto	115V AC	0.60	A	5/16 in	7 in	ESP-L15EMJR1B1	**5M067**
15 W	1/50	1,500	Auto	115V AC	0.60	A	5/16 in	5 in	ESP-L15EMJR1B2	**5M068**

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
1-Speed											
1/12	1,140	56CZ	None	115V AC	3.0	1.4	5/8 in	2 7/16 in	Dayton	—	**6XH90**
	850	56CZ	Auto	115V AC	2.1	1.4	5/8 in	2 1/2 in	Century	F395	**4MB80**
	850	56CZ	None	115V AC	3.1	1.4	5/8 in	2 7/16 in	Dayton	—	**6XJ02**
1/6	1,725	56CZ	None	115V AC	3.4	1.35	5/8 in	2 in	Dayton	—	**6XH46**
	1,140	56CZ	Auto	115V AC	3.1	1.35	5/8 in	2 1/4 in	Century	F271	**4MB62**
	1,140	56CZ	None	115V AC	4.7	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH47**
1/4	1,725	56CZ	Auto	115V AC	4.1	1.35	5/8 in	2 7/16 in	Century	F392	**4MB68**
	1,725	56CZ	None	115V AC	8.6	1.35	5/8 in	2 1/4 in	Dayton	—	**6XH49**
	1,140	56CZ	None	115V AC	5.5	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH44**
1/3	1,725	56CZ	Auto	115V AC	5.1	1.35	5/8 in	2 7/16 in	Century	F394	**4MB76**
	1,725	56CZ	None	115V AC	5.8	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH50**
	1,140	56CZ	None	115V AC	7.4	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH51**
	850	56CZ	Auto	115V AC	8.1	1	5/8 in	2 1/4 in	Century	F276	**4MB74**
	850	56C	Auto	115V AC	9.0	1.35	5/8 in	2 5/16 in	U.S. Motors	1208	**55MM53**
1/2	1,725	56CZ	None	115V AC	8.6	1.25	5/8 in	2 7/16 in	Dayton	—	**6XH52**
	1,140	56CZ	None	115V AC	9.2	1.25	5/8 in	2 7/16 in	Dayton	—	**6XH53**
2-Speed											
1/6, 1/15	1,140/850	56CZ	None	115V AC	4.2/3.1	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH54**
1/4, 1/12	1,725/1,140	56CZ	Auto	115V AC	5.0/3.0	1.35	5/8 in	2 7/16 in	Century	F393L	**6FJF0**
	1,725/1,140	56CZ	None	115V AC	5.4/2.8	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH84**
1/4, 1/10	1,140/850	56CZ	None	115V AC	4.6/3.7	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH85**
1/3, 1/10	1,725/1,140	56CZ	Auto	115V AC	5.4/2.3	1.35	5/8 in	2 1/4 in	Century	F262	**4MB72**
1/3, 1/9	1,725/1,140	56CZ	None	115V AC	5.8/4.1	1.35	5/8 in	2 7/16 in	Dayton	—	**6XH86**
1/2, 1/7	1,725/1,140	56CZ	Auto	115V AC	6.8/3.8	1.25	5/8 in	2 1/4 in	Century	F263	**4MB78**
1/2, 1/6	1,725/1,140	56CZ	None	115V AC	7.7/3.9	1.25	5/8 in	2 7/16 in	Dayton	—	**6XH79**

Split-Phase Open Dripproof Belt-Drive Face-Mount Motors

6XH49

6XH54

- Rotation: CW/CCW
- Bearings: ball
- Insulation: Class B
- Max. ambient temp.: 40°C

Have low to moderate starting torque and deliver smooth, soft, start-ups in HVAC equipment that must gradually come up to speed. NEMA service factors up to 1.40 provide a reserve margin for applications where intermittent overloading or fluctuating (high/low) voltage conditions may occur. Provide direct replacement in many Jenn-Air and similar commercial kitchen exhaust ventilators. Motors are compatible with 2-speed 115V switch 1DGZ9 sold on Grainger.com. For use in exhaust ventilators in commercial cooking areas and other moderate-starting torque equipment that can be directly connected to a NEMA 56CZ face-mounted motor.

Note: Not intended for power transmission applications.

Split-Phase Open Dripproof Belt-Drive Motors

- Rotation: CW/CCW
- Thermal protection: auto, except No. 4RGX1 has no thermal protection

Feature a low to moderate starting torque and deliver smooth, soft, start-ups in HVAC equipment that must gradually come up to speed. Suitable for use in fans, blowers, whole house fans, air circulators, and air coolers where a quiet running motor is required. A ⅝"-dia. shaft bushing comes with Dayton motors having ½" x 1½" shafts.

Dayton 3K384, 3K386—For use in attic fans.

Marathon—MAXGuard insulation system offers protection for use with a variable frequency drive.

Century 4UE60, 4UE62—Adjustable ring-mount motors have 2¼"-dia. resilient rings and come with snap rings to increase diameter to 2½".

Dayton, 2-Speed—Quick-connect terminal board eases installation.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ins. Class	Max. Ambient Temp.	Service Factor	Bearings	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
Commercial, 1-Speed, Open Dripproof with Cradle Base Mounting													
1/12	1,140	48Z	115V AC	2.4	B	40 °C	1.4	Ball	1/2 in	2 in	Century	BF20086V1	**5DVU6**
1/8	1,140	48	115V AC	3.0	B	40 °C	1.4	Ball	1/2 in	1 15/16 in	Century	BF2006L	**4YHW3**
	850	56	115V AC	4.4	B	40 °C	1.4	Ball	5/8 in	1 15/16 in	Century	BF2008	**4UE66**
1/6	1,725	48	115/208-230V AC	3.6/1.80-1.70	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K613** ‡
	1,725	48	115V AC	3.4	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K551** ‡
	1,140	48	115V AC	3.4	B	40 °C	1.35	Ball	1/2 in	1 15/16 in	Century	815V2	**4RGX1**
1/4	1,725	48	115/208-230V AC	4.7/2.3-2.2	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K091** ‡
	1,725	48Z	115/208-230V AC	4.7/2.3-2.2	B	40 °C	1.35	Ball	1/2 in	1 7/8 in	Dayton	—	**3ZP92** ‡
	1,725	48	115V AC	5.0	B	40 °C	1.35	Sleeve	5/8 in	1 1/2 in	Century	GF2024	**4UE76**
	1,725	48Y	115/208-230V AC	5.1/2.6-2.4	B	60 °C	1.15	Ball	1/2 in	1 7/8 in	Dayton	4VAF9	**4VAF9**
	1,725	56	115V AC	5.3	B	40 °C	1.35	Ball	5/8 in	1 7/8 in	Dayton	—	**5K260**
	1,725	48	115V AC	5.3	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**5K907** ‡
	1,725	56Z	115V AC	5.3	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**5K977**
1/3	3,450	48Z	115/230V AC	3.2/6.3	B	40 °C	1.35	Ball	1/2 in	2 5/16 in	Century	F344V1	**4UE70**
	1,725	48	115V AC	5.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K384** ‡#
	1,725	48YZ	115/208-230V AC	6.6/3.1-3.3	B	40 °C	1.35	Ball	1/2 in	1 7/8 in	Dayton	—	**4K252** ‡
	1,725	48Y	115/208-230V AC	6.6/3.1-3.3	B	60 °C	1.15	Ball	1/2 in	1 7/8 in	Dayton	4VAG1BG	**4VAG1**
	1,725	56	115V AC	5.8	B	40 °C	1.35	Ball	5/8 in	1 7/8 in	Dayton	—	**5K261**
	1,725	56Z	115V AC	5.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K030**
	1,725	48	115V AC	5.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K570** ‡
1/2	1,725	48Z	115/208-230V AC	8.6/4.3-4.2	B	40 °C	1.25	Ball	1/2 in	1 7/8 in	Dayton	—	**4K259** ‡
	1,725	48	115V AC	7.2	B	40 °C	1.25	Sleeve	5/8 in	1 1/2 in	Century	GF2054	**4UE85**
	1,725	56Z	115V AC	6.6	B	40 °C	1	Ball	1/2 in	1 7/8 in	Century	F670AV1	**4UE86**
	1,725	56	115/208-230V AC	8.3/4.3-4.2	F	60 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	4VAG2	**4VAG2**
	1,725	56Z	115V AC	7.9	B	40 °C	1.25	Ball	1/2 in	1 1/2 in	Dayton	—	**5K258**
	1,725	56	115V AC	7.2	B	60 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	—	**5K416**
	1,725	48	115V AC	7.9	B	40 °C	1.25	Ball	1/2 in	1 1/2 in	Dayton	—	**6K589** ‡
	1,725	56	115/208-230V AC	8.6/4.3-4.2	B	40 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	—	**6K729**
	1,140	56	115/230V AC	9.2/4.6	B	40 °C	1.25	Ball	5/8 in	1 15/16 in	Century	BF2056D	**4UE95**
3/4	1,725	56H	115/208-230V AC	11.2/5.6-5.6	F	40 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	—	**3K617**
	1,725	56	115/230V AC	10.4/5.2	—	40 °C	1.25		5/8 in	1 7/8 in	Century	F680V1	**490T57**
	1,725	56	115/208-230V AC	11.8/6.1-6.0	B	60 °C	1.15	Ball	5/8 in	1 7/8 in	Dayton	4VAG3BG	**4VAG3**
Commercial, 1-Speed, Open Dripproof with Rigid Base Mounting													
1/3	1,725	48Z	115V AC	5.3	B	40 °C	1.15	Ball	1/2 in	2 5/16 in	Century	889V2	**4HCH5**
Commercial, 1-Speed, Open Dripproof with Ring/Stud Mounting													
1/6	1,725	48	115V AC	3.6	—	40 °C	1.35		1/2 in	1 7/16 in	Marathon	048S17D2017	**490T83**
	1,725	48Y	115V AC	3.6	—	40 °C	1.35		1/2 in	1 13/16 in	Marathon	048S17D2053	**490T90**
1/4	1,725	48YZ	115V AC	5.0	—	40 °C	1.35		1/2 in	1 13/16 in	Marathon	048S17D2055	**490T80**
	1,725	48Z	115V AC	5.0	—	40 °C	1.35		1/2 in	1 13/16 in	Marathon	048S17D2107	**490T85**
1/3	1,725	48Y	115V AC	5.5	—	40 °C	1.35		1/2 in	1 13/16 in	Marathon	048S17D2057	**490T87**
1/2	1,725	48Y	115V AC	7.5	—	40 °C	1.25		1/2 in	1 13/16 in	Marathon	048S17D2059	**490T86**
Commercial, 1-Speed, Open Dripproof with Ring Mounting													
1/3	1,725	48	115V AC	5.5	B	40 °C	1.35	Ball	5/8 in	1 5/8 in	Century	AR2034	**4UE60**
1/2	1,725	48	115V AC	7.2	B	40 °C	1.25	Sleeve	5/8 in	1 5/8 in	Century	AR2054	**4UE62**
Commercial, 2-Speed, Open Dripproof with Cradle Base Mounting													
1/6, 1/18	1,725/1,140	48Z	115V AC	4.1/2.00	B	40 °C	1.35	Ball	1/2 in	1 15/16 in	Century	BGF2014L	**5ELL4**
1/4, 1/14	1,725/1,140	48Z	115V AC	3.7/2.1	B	40 °C	1.35	Ball	1/2 in	1 15/16 in	Century	927L	**5ELK5**
1/4, 1/8	1,725/1,140	56Z	115V AC	5.9/3.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K425**
1/3, 1/9	1,725/1,140	48	115V AC	5.9/3.4	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K371**
	1,725/1,140	48	115V AC	5.9/4.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K386** #
1/3, 1/11	1,725/1,140	56	115V AC	5.0/3.0	B	40 °C	1.35	Ball	5/8 in	1 15/16 in	Century	F390	**4UE93**
1/3, 1/8	1,725/1,140	56Z	115V AC	5.2/3.0	B	40 °C	1	Ball	1/2 in	2 1/16 in	Century	SGF2034V2	**4UE98**
1/3, 1/11	1,725/1,140	48	115V AC	6.6/2.4	B	40 °C	1	Ball	1/2 in	1 9/16 in	Century	925AL	**5ELK7**
1/3, 1/6	1,725/1,140	56	115V AC	6.1/3.8	B	40 °C	1.35	Ball	5/8 in	1 7/8 in	Dayton	—	**5K654**
	1,725/1,140	56Z	115V AC	6.1/3.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K426**
1/3, 1/15	1,725/850	56Z	115V AC	5.2/3.0	B	40 °C	1	Ball	1/2 in	1 15/16 in	Century	SGF2034V3	**4UE97**
1/2, 1/4	1,725/1,140	56	115V AC	9.2/6.0	B	40 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	—	**6K394**
Residential, 1-Speed, Open Dripproof with Cradle Base Mounting													
1/4	1,725	48	115V AC	5.3	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**3K771** ‡
1/3	1,725	48	115V AC	5.8	B	40 °C	1.35	Ball	1/2 in	1 1/2 in	Dayton	—	**6K778** ‡
1/2	1,725	48	115V AC	8	B	40 °C	1.25	Ball	1/2 in	1 1/2 in	Dayton	—	**3K772** ‡
3/4	1,725	56H	115V AC	11.3	B	40 °C	1.25	Ball	5/8 in	1 7/8 in	Dayton	—	**1D170**

‡ Notched for 48 or 56 frame mount. # Leads exit shaft end.

Cradle Base Mount 5DVU6

Rigid Base Mount 4HCH5

Ring Mount 4UE62

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Dayton

Split-Phase Start/Capacitor-Run Open Dripproof Belt-Drive Motors

- Rotation: CW/CCW
- Insulation: Class B, except 6K857 is F
- Body dia.: 5⅝", except 6K872 is 6½"
- Max. ambient temp.: 40°C
- Duty: continuous

These motors feature a low to moderate starting torque and deliver smooth, soft, start-ups in HVAC equipment that must gradually come up to speed. They have an open dripproof enclosure and are for use in clean, dry, nonhazardous locations. Motors are suitable for use in fans, blowers, whole house fans, air circulators, and air coolers where a quiet running motor is required.

6K871

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Shaft Dia.	Shaft Length	Item No.	
1-Speed, Open Dripproof with Cradle Base Mounting											
¼	1,725	48	Auto	115V AC	3.2	1.35	Ball	½ in	1 ½ in	**6K870**	*‡
⅓	1,725	48	Auto	115V AC	4.1	1.35	Ball	½ in	1 ½ in	**6K871**	*‡
½	1,725	56Z	Auto	115V AC	5.3	1.25	Ball	½ in	1 ½ in	**6K872**	*
¾	1,725	56	Auto	115V AC	8.3	1.25	Ball	⅝ in	1 ⅞ in	**6K857**	

** Includes ⅝" dia. shaft bushing. ‡ Notched for 48 or 56 frame mount.*

4UE81

5ELN2

5DVU0

marathon Motors Century

Split-Phase Open and Air-Over Belt-Drive Motors

- Rotation: CW/CCW
- Insulation: Class B
- Body dia.: 48 frame, 5⅝"; 56 frame, 6½"
- Max. ambient temp.: 40°C
- Duty: continuous

Feature low to moderate starting torque and provide smooth, soft, start-ups in HVAC equipment that must gradually come up to speed. Motors are for use in exhaust fans, air circulators, and other air-over fan applications. Open motors are for use in clean, dry, nonhazardous locations. Enclosed motors are for use in dusty, dirty, nonhazardous locations.

2 Speed—Designed specifically for diminishing torque air-moving applications, such as belted or direct-drive fans.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Bearings	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.	
1-Speed, Open Air-Over with Cradle Base Mounting													
⅓	1,725	48	Auto	115V AC	6.6	1	Ball	½ in	1 ½ in	Marathon	048S17D997	**44YU96**	
1-Speed, Open with Cradle Base Mounting													
⅙	1,725	56Z	Auto	115V AC	4.9	1.35	Sleeve	⅝ in	2 in	Century	RS2014	**4UE68**	*
	1,725	48Z	Auto	115V AC	4.9	1.35	Ball	½ in	1 ¾ in	Century	RB2014	**4UE73**	†
	1,725	48	Auto	115V AC	4.9	1.35	Sleeve	½ in	1 ½ in	Century	GF2014	**4UE81**	*†
¼	1,725	48	Auto	115/208-230V AC	4.6/2.3	1.35	Ball	½ in	1 ⅝ in	Century	BF2024	**4UE79**	*†
	1,725	56Z	Auto	115V AC	4.9	1.35	Sleeve	⅝ in	1 ½ in	Century	RS2026	**4UE83**	*
	1,140	56	Auto	115V AC	4.9	1.35	Ball	⅝ in	1 ⅞ in	Century	RB2026	**4UE69**	
⅓	1,725	48Z	Auto	115V AC	5.8	1.35	Ball	½ in	1 ¹⁵⁄₁₆ in	Century	922L	**2JFT8**	
	1,725	48	Auto	115/230V AC	6.0/3.0	1.35	Ball	⅝ in	1 ⅝ in	Century	BF2034	**4UE63**	*†‡
	1,725	56Z	Auto	115/208-230V AC	6.0/3.0-2.7	1.35	Ball	⅝ in	2 ⅜ in	Century	BF2034B	**4UE80**	*
½	1,725	48	Auto	115/208-230V AC	7.2/3.6	1.25	Ball	½ in	1 ⅝ in	Century	BF2054	**4UE88**	*†
	1,725	48Z	Auto	115/208-230V AC	7.2/3.6	1.25	Ball	½ in	2 ⅜ in	Century	BF2054V1	**4UE99**	*
	1,725	56Z	Auto	115/230V AC	8.8/4.4	1.25	Ball	½ in	2 in	Century	RB2054DV3	**4YHW4**	*
	1,725	56	Auto	115/230V AC	8.8/4.4	1.25	Ball	⅝ in	2 in	Century	RB2054DV2	**5ELN2**	
1-Speed, Open with Rigid Base Mounting													
⅓	1,725	48	Auto	115V AC	5.4	1.35	Ball	½ in	1 ½ in	Century	889A	**4RGX2**	
½	1,725	56Z	Auto	115V AC	7.2	1.15	Ball	⅝ in	2 ⅜ in	Century	OS2050	**4UU10**	
¾	1,725	56Z	Auto	115V AC	9.6	1	Ball	⅝ in	2 ⅜ in	Century	OS2074	**4UU11**	
1-Speed, Totally Enclosed Air-Over with Cradle Base Mounting													
¼	1,725	48Y	None	115/208-230V AC	3.3/1.70-1.70	1	Ball	½ in	1 ⅝ in	Century	ARB2024L4	**5DVU1**	†
	1,140	48Y	Auto	115/208-230V AC	6.2/2.8-3.1	1	Ball	½ in	1 ⅝ in	Century	ARB2026SV1	**5DVU2**	†
	1,140	48Y	None	115/208-230V AC	6.2/2.8-3.1	1	Ball	½ in	1 ⅝ in	Century	ARB2026SLV1	**5DVU3**	†
⅓	1,725	48	None	115/208-230V AC	4.9/2.5-2.3	1	Ball	½ in	1 ⁹⁄₁₆ in	Century	ARB2034L2	**5DVU4**	†
	1,725	56Z	Auto	115/208-230V AC	7.3/3.8-3.8	1.35	Ball	⅝ in	1 ⅝ in	Century	ARB2034L5	**5DVU5**	*
2-Speed, Open Dripproof with Cradle Base Mounting													
⅓, ⁷⁄₆₄	1,725	48	Auto	115V AC	5.3/2.9	1	Ball	½ in	9 ¾ in	Marathon	048S17D7209	**44YU94**	
2-Speed, Totally Enclosed Air-Over with Cradle Base Mounting													
¼, ¹⁄₁₂	1,725/1,140	56Z	None	115V AC	4.4/3.0	1	Ball	⅝ in	1 ⅝ in	Century	ARB2024L2	**5DVU0**	*
	1,724/1,140	56Z	Auto	115V AC	4.4/3.0	1	Ball	⅝ in	1 ⅝ in	Century	ARB2024L1	**5DVT9**	*

** Includes ⅝" shaft adapter/key. † Cradle base has 48//56 mounting holes. ‡ Usable on 208V at 1.0 service factor.*

Looking For More?

Find **belts and pulleys** on pages 97 to 114.

Dayton marathon Motors Century

24C180

Capacitor-Start Open Dripproof Belt-Drive Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Max. ambient temp.: 40°C, except 4VAG4 to 4VAG7 are 60°C; 4YU31 is 65°C

Have a capacitor to provide additional power during startup for higher starting torque. This higher torque allows these single-phase motors to handle heavier loads at lower speeds. Motors are for use with belt-drive applications, including furnace blowers, exhaust fans, industrial blowers, and ventilators. 2-speed models are for use in diminishing-torque air-moving applications such as belt- or direct-drive fans and blowers. 4UB57 and 4UB98 include ⅝"-key shaft adapter. 4UB57 is notched for 48 or 56 NEMA frame mount.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Ins. Class	Service Factor	Bearings	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
1-Speed, Open Dripproof with Cradle Base Mounting												
¼	1,725	48YZ	115/208-230V AC	6.2/2.8-3.1	B	1.35	Ball	½ in	1 ⅞ in	Dayton	1AGG1	**1AGG1**
	1,725	48Y	115/208-230V AC	4.5/2.2-2.3	B	1.15	Ball	½ in	1 ⅞ in	Dayton	4VAG4BG	**4VAG4**
⅓	1,725	48Z	115/230V AC	5.4/2.7	B	1.35	Ball	½ in	1 ⅞ in	Dayton	6K490	**6K490** *
	1,725	56	115/230V AC	5.7/2.8	B	1.35	Ball	⅝ in	1 ⅞ in	Dayton	6K366	**6K366**
	1,725	48Z	115/208-230V AC	5.8/3.1-2.9	B	1.35	Ball	½ in	1 ⅞ in	Dayton	1AGG2	**1AGG2**
	1,725	48Z	115/208-230V AC	5.8/3.1-2.9	—	1.35		½ in	1 ⅞ in	Marathon	048C17D2044	**490T67**
	1,725	48Y	115/208-230V AC	5.9/3.0-2.8	B	1.15	Ball	½ in	1 ⅞ in	Dayton	4VAG5	**4VAG5**
	1,725	56Z	115V AC	5.7	B	1	Ball	½ in	1 ½ in	Century	807L	**5DVT5**
½	1,725	56	115/230V AC	7.7/3.8	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	3K199	**3K199** *
	1,725	48Z	115/230V AC	8.2/4.1	B	1.25	Ball	½ in	1 ⅞ in	Dayton	6K965	**6K965**
	1,725	56	115/208-230V AC	8.2/4.1-4.0	—	1.25		⅝ in	2 in	Century	C412V2	**490T53**
	1,725	56	115/208-230V AC	7.2/3.6-3.6	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	1AGG3	**1AGG3**
	1,725	56H	115/208-230V AC	7.7/3.8-3.7	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	24C180	**24C180**
	1,725	56	115/208-230V AC	8.2/4.1	B	1.15	Ball	⅝ in	1 ⅞ in	Dayton	4VAG6BG	**4VAG6**
	3,450	48Y	115/208-230V AC	8.0/4.0-3.8	B	1.25	Ball	⅝ in	1 9/16 in	Century	B590	**4UB57** †
¾	1,725	56	115/230V AC	9.8/5.0	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	6K376	**6K376** *
	1,725	56	115/208-230V AC	10.4/5.2-5.2	B	1.25	Ball	⅝ in	2 in	Century	C426V2	**4UB63** ‡
	1,725	56H	115/208-230V AC	9.8/5.2-5.0	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	24C181	**24C181**
	1,725	56	115/208-230V AC	11.1/5.5-5.5	B	1.25	Ball	⅝ in	1 ⅞ in	Dayton	4VAG7	**4VAG7**
	3,450	56	115/208-230V AC	4.7-4.6/9.2	A	1.25	Sleeve	⅝ in	2 in	Century	B642	**4LY81**
1	1,725	56	115/208-230V AC	13.6/6.9-6.9	B	1.15	Ball	⅝ in	1 ⅞ in	Dayton	6K321	**6K321**
	1,725	56Z	115/208-230V AC	6.2-6.3/12.6	B	1.15	Ball	⅝ in	2 ⅜ in	Century	C523V1	**4UB98** ‡
	1,725	56H	115/208-230V AC	13.6/6.9-6.9	B	1.15	Ball	⅝ in	1 ⅞ in	Dayton	24C182	**24C182**
	1,725	56	115/208-230V AC	13.2/6.6-6.6	—	1.25		⅝ in	1 ⅞ in	Century	C692V1	**490T55**
	1,725	56	115/208-230V AC	12.8/6.4-6.4	B	1.15	Ball	⅝ in	1 ⅞ in	Dayton	4YU30	**4YU30**
	1,725	56Z	115/208-230V AC	14.4/7.2-7.2	—	1.15		⅝ in	2 ¼ in	Marathon	5KC49NN0061T	**490T68**
	3,450	56	115/208-230V AC	6.6-6.0/12.0	A	1.25	Sleeve	⅝ in	1 15/16 in	Century	B701	**4LY83**
	3,450	56	115/208-230V AC	6.6-6.0/12.0	B	1.25	Ball	⅝ in	2 in	Century	B589	**4UB65**
1 ½	3,450	56	115/208-230V AC	8.6-8.0/16.0	B	1.2	Ball	⅝ in	1 15/16 in	Century	B722L	**2LTA1**
1-Speed, Open Dripproof with Rigid Base Mounting												
1 ½	1,725	56H	115/208-230V AC	13.2/7.2-6.6	B	1.15	Ball	⅝ in	2 ¼ in	Dayton	4YU31	**4YU31**
2-Speed, Open Dripproof with Cradle Base Mounting												
½, ¼	1,725/1,140	56	115V AC	6.8/4.8	A	1	Sleeve	⅝ in	1 15/16 in	Century	C678V1	**4LY80**
¾, ⅓	1,725/1,140	56	115V AC	8.6/6.1	A	1	Sleeve	⅝ in	1 ⅞ in	Century	A56C64DRS40003A2A	**4LY85**
¾, ¼	1,725/1,140	56	208-230V AC	5.0/2.8	B	1.25	Ball	⅝ in	2 in	Century	C534V1	**4UB52** ‡
¾, ⅕	1,725/1,140	56	115V AC	10.0/4.0	B	1.25	Ball	⅝ in	2 in	Century	C533	**4UB51** ‡
¾, ⅓	1,725/1,140	56	230V AC	5.0/3.2	A	1	Sleeve	⅝ in	1 15/16 in	Century	C742V1	**4LY87**
1, ⅓	1,725/1,140	56	115V AC	12.4-7.8	B	1.15	Ball	⅝ in	1 15/16 in	Century	C471A	**4UB53** ‡
	1,725/1,140	56	208-230V AC	6.3-6.0/3.8-3.3	B	1	Ball	⅝ in	1 15/16 in	Century	C472V1	**4LY89** ‡
	1,725/1,160	56	208-230V AC	6.4-6.0/3.5-3.4	B	1.15	Ball	⅝ in	1 15/16 in	Century	C472A	**4UB55** ‡

** 60/50 Hz. † 3⅝" x 3⅝" stud mounting pattern. ‡ 4⅛" x 4⅛" stud mounting pattern.*

Dayton Century marathon Motors

4RGW9

Capacitor-Start/Run Belt-Drive Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Bearings: ball
- Max. ambient temp.: 40°C, except 4VAG8 is 60°C

Feature a capacitor to provide additional power during startup for higher torque, and a separate capacitor to run for higher operating efficiency. Motors are used to power HVAC equipment such as air coolers, belt-drive fans, roof ventilators, and air circulators.

HP	Nameplate RPM	Frame	Motor Enclosure Design	Voltage	Full Load Amps	Service Factor	Shaft Dia.	Shaft Length	Brand	Mfr. Model	Item No.
1-Speed, Cradle Base Mounting											
1	1,725	56	Open Dripproof	115/208-230V AC	7.8/4.4-4.0	1.25	⅝ in	1 ⅞ in	Dayton	4VAG8	**4VAG8**
2	1,725	56H	Open	115/208-230V AC	19.6/9.8	1.15	⅝ in	2 in	Century	RB1204AV1	**4RGW9**
1-Speed, Rigid Base Mounting											
½	1,725	56	Totally Enclosed Air-Over	115/230V AC	4.6/2.3	1	⅝ in	2 in	Marathon	056B17T20	**19YV63**
1	1,725	56	Totally Enclosed Nonventilated	115/230V AC	9.2/4.6	1	⅝ in	2 5/16 in	Marathon	056B17T5303	**19YV64**

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Dayton

High-Temperature Belt-Drive Motors

4VAF9

- Enclosure: open dripproof
- Rotation: CW/CCW
- Thermal protection: auto
- Insulation: Class B
- Mounting: cradle/stud
- Frame: steel
- Bearings: ball
- Max. ambient temp.: 60°C

These single-speed, 1-phase, continuous-duty motors are suitable for use in roof ventilators and have quick-connect terminals to help speed installation. 48Y frames are notched to replace 48 or 56 frame.

HP	Nameplate RPM	Frame	Voltage	Full Load Amps	Service Factor	Body Dia.	Shaft Dia.	Shaft Length	Length Less Shaft	Ring to Ring Center	Stud Pattern	Item No.
Split-Phase												
¼	1,725	48Y	115/208-230V AC	5.1/2.6-2.4	1.15	5 ⅝ in	½ in	1 ⅞ in	7 ⅞ in	7 7⁄16 in	3⅝ in x 3⅝ in	**4VAF9**
⅓	1,725	48Y	115/208-230V AC	6.6/3.1-3.3	1.15	5 ⅝ in	½ in	1 ⅞ in	8 7⁄16 in	8 1⁄16 in	3⅝ in x 3⅝ in	**4VAG1**
½	1,725	56	115/208-230V AC	8.3/4.3-4.2	1.25	6 ½ in	⅝ in	1 ⅞ in	8 ⅞ in	8 ⅜ in	4⅛ in x 4⅛ in	**4VAG2**
¾	1,725	56	115/208-230V AC	11.8/6.1-6.0	1.15	6 ½ in	⅝ in	1 ⅞ in	7 15⁄16 in	7 7⁄16 in	4¼ in x 4¼ in	**4VAG3**
Capacitor-Start												
¼	1,725	48Y	115/208-230V AC	4.5/2.2-2.3	1.15	5 ⅝ in	½ in	1 ⅞ in	7 ⅞ in	7 ⅜ in	3⅝ in x 3⅝ in	**4VAG4**
⅓	1,725	48Y	115/208-230V AC	5.9/3.0-2.8	1.15	5 ⅝ in	½ in	1 ⅞ in	9 1⁄16 in	8 7⁄16 in	3⅝ in x 3⅝ in	**4VAG5**
½	1,725	56	115/208-230V AC	8.2/4.1	1.15	5 ⅝ in	⅝ in	1 ⅞ in	8 ½ in	8 in	3⅝ in x 3⅝ in	**4VAG6**
¾	1,725	56	115/208-230V AC	11.1/5.5-5.5	1.25	6 ½ in	⅝ in	1 ⅞ in	9 ½ in	9 in	4¼ in x 4¼ in	**4VAG7**
Capacitor-Start/Run												
1	1,725	56	115/208-230V AC	7.8/4.4-4.0	1.25	6 ½ in	⅝ in	1 ⅞ in	10 ½ in	9 15⁄16 in	4⅛ in x 4⅛ in	**4VAG8**

Cradle-Base Mount, Open Dripproof

Cradle-Base Mount, Totally Enclosed Nonventilated

Century® marathon™ Motors

3-Phase Belt-Drive Motors

- Rotation: CW/CCW
- Insulation: Class B, except 10K091 and 19RW76 to 19RW78 are Class F
- Bearings: ball
- Max. ambient temp.: 40°C

Highly efficient motors have a high starting torque compared to single-phase models of the same HP, rpm, and frame size. They require no capacitor, start winding, centrifugal switch, or other starting device that can wear out and fail. Motors are suitable for use with pumps, industrial fans, blowers, and exhaust fans.

HP	Nameplate RPM	Frame	Thermal Protection	Voltage	Full Load Amps	Service Factor	Mounting	Shaft Dia.	Shaft Length	Length Less Shaft	Stud Pattern	Brand	Mfr. Model	Item No.	
1-Speed, Open Dripproof															
⅓	1,725	56	None	200-230/460V AC	1.60-1.40/0.80	1.35	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	—	Century	H262V2	**10K091**	
½	3,450	56	Auto	200-230/460V AC	1.00/2.00-1.90	1.6	Cradle Base	⅝ in	1 15⁄16 in	10 ¼ in	—	Century	H840	**4MA38**	†
	1,725	56	None	200-230/460V AC	1.00/2.00-1.80	1.25	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H275V2	**12N863**	
¾	3,450	56	Auto	200-230/460V AC	1.40/2.8-2.8	1.5	Cradle Base	⅝ in	1 15⁄16 in	10 ¾ in	4 ⅛ in x 4 ⅛ in	Century	H841V1	**4LY72**	†
	1,725	56	Auto	200-230/460V AC	3.2-3.0/1.60	1.25	Cradle Base	⅝ in	2 1⁄16 in	9 ½ in	—	Century	H851V3	**429J47**	
	1,725	56	None	200-230/460V AC	3.2-2.9/1.60	1.25	Cradle Base	⅝ in	2 in	9 in	—	Century	H582V3	**490T59**	
1	3,450	56H	Auto	200-230/460V AC	1.80/3.6-3.5	1.4	Cradle Base	⅝ in	1 15⁄16 in	10 ¾ in	4 ⅛ in x 4 ⅛ in	Century	H842V1	**4LY73**	†
	1,725	56	None	200-230/460V AC	3.6-3.4/1.80	1.25	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H615V2	**6PWA6**	
1 ½	3,450	56H	Auto	200-230/460V AC	4.7-4.6/2.3	1.3	Cradle Base	⅝ in	1 15⁄16 in	11 in	4 ⅛ in x 4 ⅛ in	Century	H843V1	**4LY74**	†
	1,725	56H	None	200-230/460V AC	5.0-4.8/2.4	1.2	Cradle Base	⅝ in	1 ⅞ in	10 in	—	Century	56T17DRS40003A2	**6PWA7**	
2	3,450	56H	Auto	200-230/460V AC	2.9/6.0-5.8	1.2	Cradle Base	⅝ in	1 15⁄16 in	12 in	—	Century	H844	**4MA40**	†
	1,725	56H	Auto	208-230/460V AC	5.8/2.9	1.15	Cradle Base	⅝ in	2 in	10 13⁄16 in	4 ⅛ in x 4 ⅛ in	Century	RB3204A	**4LY71**	*†
3	1,750	56HZ	Auto	200-230/460V AC	4.5/9.4-8.9	1.15	Rigid Base	⅞ in	2 5⁄16 in	12 ¼ in	5 13⁄16 in x 5 13⁄16 in	Century	H887L	**10K089**	
5	3,450	56HZ	Auto	208-230/460V AC	13.4-13.2/6.6	1.15	Cradle Base	⅞ in	2 5⁄16 in	12 ¼ in	4 ⅛ in x 4 ⅛ in	Century	H1039L	**3DGD1**	†
½	1,725	56	Auto	208-230/460V AC	2.3-2.2/1.10	1.25	Cradle Base	⅝ in	1 ⅞ in	8 1⁄16 in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K42HN4089X	**490T69**	
¾	1,725	56	None	208-230/460V AC	3.3-3.0/1.50	1.25	Cradle Base	⅝ in	1 ⅞ in	8 ⅞ in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K46KN4085	**490T70**	
	1,725	56	Auto	208-230/460V AC	3.3-3.0/1.50	1.25	Cradle Base	⅝ in	1 ⅞ in	8 ⅞ in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K46KN4085X	**490T71**	
1	1,725	56	None	208-230/460V AC	3.8-3.6/1.90	1.15	Cradle Base	⅝ in	1 ⅞ in	8 ⅞ in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K46MN4087	**490T72**	
¾, 1	1,725	56	Auto	208-230/460V AC	3.4-3.4/1.70	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ½ in	—	Marathon	056T17D2101	**490T73**	
1 ½	1,725	56	None	208-230/460V AC	4.8-4.8/2.4	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ½ in	—	Marathon	056T17D5329	**490T75**	
	1,725	56H	None	208-230/460V AC	5.2-5.1/2.6	1.15	Cradle Base	⅝ in	1 ⅞ in	10 in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K49PN4088X	**490T76**	
2	1,725	56H	None	208-230/460V AC	6.0-6.0/3.0	1.15	Cradle Base	⅝ in	1 ⅞ in	11 15⁄16 in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K49UN4086X	**490T78**	
1-Speed, Totally Enclosed Air-Over															
¼	1,725	48Y	None	208-230/460V AC	1.50-1.40/0.75	1	Cradle Base	½ in	2 in	6 ⅜ in	3 ⅝ in x 3 ⅝ in	Century	H1025A	**4EAH1**	*
⅓	1,725	48Y	None	208-230/460V AC	1.20-1.20/0.60, 1.40-1.4/0.70	1	Cradle Base	½ in	2 in	7 ¼ in	4 ¼ in x 4 ¼ in	Century	H1027A	**5DVU7**	*
½	1,725	56	None	208-230/460V AC	2.3-2.2/1.10	1	Cradle Base	⅝ in	1 ⅞ in	8 3⁄16 in	4 3⁄16 in x 4 3⁄16 in	Marathon	5K42HN4128	**403T97**	
1	1,725	56	None	200-230/460V AC	3.4-3.3/1.70	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ½ in	4 ⅛ in x 4 ⅛ in	Century	H1031L	**6PWA5**	
1-Speed, Totally Enclosed Nonventilated															
¼	1,140	56	None	200-230/460V AC	1.30-1.20/0.60	1.15	Cradle Base	⅝ in	1 15⁄16 in	8 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H1026	**4LY49**	
½	1,140	56	None	200-230/460V AC	2.1-2.00/1.00	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H1029	**4LY52**	
¾	1,725	56	None	200-230/460V AC	2.4-2.3/1.20	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ½ in	4 ⅛ in x 4 ⅛ in	Century	H1030L	**6FJF1**	
2-Speed, Open Dripproof															
½, ¼	1,725/1,140	56Y	None	200-230V AC	1.90/1.20	1.25	Cradle Base	⅝ in	1 ⅞ in	9 3⁄16 in	4 ⅛ in x 4 ⅛ in	Century	H655V1	**5XTA0**	
	1,725/1,140	56Y	None	460V AC	0.95/0.60	1.25	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H656V1	**5XTA1**	
¾, ⅓	1,725/1,140	56	None	460V AC	1.30/0.82	1.25	Cradle Base	⅝ in	1 ⅞ in	8 13⁄16 in	4 ⅛ in x 4 ⅛ in	Century	H658V1	**5XTA2**	
	1,725/1,140	56FR	None	200-230V AC	2.6/1.60	1.25	Cradle Base	⅝ in	1 15⁄16 in	8 ¾ in	4 ⅛ in x 4 ⅛ in	Century	H657V1	**6FJF2**	
1, ½	1,725/1,140	56	None	200-230V AC	3.4/2.2	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H717V1	**5XTA3**	
	1,725/1,140	56Y	None	460V AC	1.70/1.10	1.15	Cradle Base	⅝ in	1 15⁄16 in	9 ⅛ in	4 ⅛ in x 4 ⅛ in	Century	H718V1	**5XTA4**	
1 ½, 11⁄16	1,745/1,140	56H	None	200-230V AC	4.8/2.8	1.15	Cradle Base	⅝ in	1 15⁄16 in	10 ¾ in	4 ⅛ in x 4 ⅛ in	Century	H1034V1	**5XRZ9**	
3, ¾	1,760/875	182T	None	200-230V AC	9.0-8.2/3.6-3.5	1.15	Rigid Base	1 ⅛ in	2 13⁄16 in	10 ⅜ in	—	Marathon	182TTDW7412	**19RW76**	
5, ¼	1,755/875	184T	None	460V AC	6.9/3.0	1.15	Rigid Base	1 ⅛ in	2 13⁄16 in	11 ⅜ in	—	Marathon	184TTDW7209	**19RW77**	
	1,755/875	184T	None	200-230V AC	14.5-13.8	1.15	Rigid Base	1 ⅛ in	2 13⁄16 in	11 ⅜ in	—	Marathon	184TTDW7287	**19RW78**	

** 60/50 Hz. † Horizontal mounting only.*

Motor Start Capacitors

- 60/50 Hz
- Temp. range: -40° to 65°C (-40° to 149°F)

Electrolytic, nonpolarized capacitors are designed for normal intermittent service on single-phase AC motor starting circuits. Round, molded cases protect the capacitor from oil, dirt, moisture, and grease. 60/50 Hz.

MFD (μF) Rating	Dia.	Overall Height	Item No.
110 to 125V AC			
36-43	1 7/16 in	2 ¾ in	**6FLK7**
56-75	1 7/16 in	2 ¾ in	**6FLL2**
72-88	1 7/16 in	2 ¾ in	**6FLL6**
88-108	1 7/16 in	2 ¾ in	**2MDN9**
108-130	1 7/16 in	2 ¾ in	**2MDR1**
124-149	1 7/16 in	2 ¾ in	**6FLK1**
130-156	1 7/16 in	2 ¾ in	**2MDR2**
145-174	1 7/16 in	2 ¾ in	**2MDR3**
161-193	1 7/16 in	2 ¾ in	**2MDR4**
189-227	1 7/16 in	2 ¾ in	**2MDR5**
200-240	1 7/16 in	2 ¾ in	**6FLK3**
216-259	1 7/16 in	2 ¾ in	**2MDR6**
216-259	1 7/16 in	3 ⅜ in	**2MDR7**
233-280	1 7/16 in	2 ¾ in	**2MDR8**
233-280	1 7/16 in	3 ⅜ in	**2MDR9**
243-292	1 7/16 in	2 ¾ in	**2MDT1**
243-292	1 7/16 in	3 ⅜ in	**2MDT2**
270-324	1 7/16 in	3 ⅜ in	**2MDT3**
270-324	1 7/16 in	2 ¾ in	**6FLK4**
300-360	1 7/16 in	4 ⅜ in	**6FLK5**
324-388	1 7/16 in	2 ¾ in	**2MDT4**
324-388	1 13/16 in	3 ⅜ in	**2MDT5**
324-388	1 7/16 in	3 ⅜ in	**2MDT6**
340-408	1 13/16 in	3 ⅜ in	**2MDT7**
340-408	1 7/16 in	3 ⅜ in	**6FLK6**
378-455	1 13/16 in	3 ⅜ in	**2MDT8**
378-455	1 7/16 in	3 ⅜ in	**6FLK8**
400-480	1 13/16 in	3 ⅜ in	**2MDT9**
400-480	1 7/16 in	3 ⅜ in	**6FLK9**
430-516	1 13/16 in	3 ⅜ in	**2MDU1**
430-516	1 7/16 in	3 ⅜ in	**6FLL0**
460-552	1 7/16 in	3 ⅜ in	**2MDU2**
460-552	1 13/16 in	3 ⅜ in	**2MDU3**
460-552	1 13/16 in	4 ⅜ in	**2MDU4**
540-648	1 13/16 in	4 ⅜ in	**2MDU5**
540-648	1 13/16 in	3 ⅜ in	**6FLL1**
590-708	1 13/16 in	4 ⅜ in	**2MDU6**
590-708	1 13/16 in	3 ⅜ in	**6FLL3**
645-774	1 13/16 in	4 ⅜ in	**4UHC7**
708-850	1 13/16 in	4 ⅜ in	**2MDU7**
708-850	2 1/16 in	4 ⅜ in	**6FLL4**
708-850	1 13/16 in	3 ⅜ in	**6FLL5**
800-960	1 13/16 in	3 ⅜ in	**6FLL7**
815-978	1 13/16 in	4 ⅜ in	**2MDU8**
829-995	1 13/16 in	4 ⅜ in	**6FLL8**
829-995	2 1/16 in	4 ⅜ in	**6FLL9**
850-1020	2 1/16 in	4 ⅜ in	**6FLN0**
1000-1200	2 1/16 in	4 ⅜ in	**2MDU9**
1290-1548	2 1/16 in	4 ⅜ in	**6FLK2**
165V AC			
145-174	1 7/16 in	3 ⅜ in	**6FLU6**
161-193	1 7/16 in	3 ⅜ in	**6FLU7**
189-227	1 7/16 in	3 ⅜ in	**2MEP8**
216-259	1 13/16 in	3 ⅜ in	**6FLU8**
233-280	1 13/16 in	3 ⅜ in	**6FLU9**
243-292	1 13/16 in	3 ⅜ in	**6FLV0**
270-324	1 13/16 in	3 ⅜ in	**2MEP9**
340-408	1 13/16 in	3 ⅜ in	**6FLV1**
378-455	1 13/16 in	4 ⅜ in	**6FLV2**
400-480	1 13/16 in	3 ⅜ in	**2MER1**
540-648	1 13/16 in	3 ⅜ in	**6FLV3**
710-850	2 1/16 in	3 ⅜ in	**6FLV4**
710-850	2 1/16 in	4 ⅜ in	**6FLV5**
810-972	2 1/16 in	4 ⅜ in	**6FLV6**

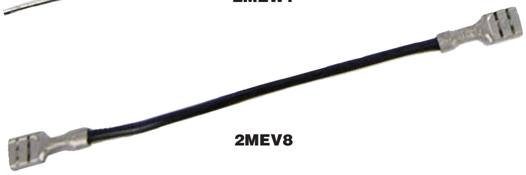
MFD (μF) Rating	Dia.	Overall Height	Item No.
220 to 250V AC			
21-25	1 7/16 in	2 ¾ in	**12N969**
25-30	1 7/16 in	2 ¾ in	**6FLW2**
30-36	1 7/16 in	2 ¾ in	**6FLW5**
36-43	1 7/16 in	2 ¾ in	**6FLW6**
43-53	1 7/16 in	2 ¾ in	**2MER2**
43-53	1 7/16 in	3 ⅜ in	**2MER3**
53-64	1 7/16 in	3 ⅜ in	**2MER4**
53-64	1 7/16 in	2 ¾ in	**2MER5**
64-77	1 7/16 in	2 ¾ in	**2MER6**
64-77	1 7/16 in	3 ⅜ in	**2MER7**
72-88	1 13/16 in	3 ⅜ in	**6FLW8**
88-108	1 13/16 in	3 ⅜ in	**2MER8**
105-126	2 1/16 in	3 ⅜ in	**6FLV7**
108-130	1 13/16 in	3 ⅜ in	**2MER9**
124-149	1 13/16 in	4 ⅜ in	**2MET1**
130-158	1 13/16 in	3 ⅜ in	**2MET2**
130-158	1 13/16 in	4 ⅜ in	**2MET3**
145-174	1 13/16 in	3 ⅜ in	**2MET4**
145-174	2 1/16 in	3 ⅜ in	**2MET5**
161-193	2 1/16 in	3 ⅜ in	**2MET6**
189-227	2 1/16 in	3 ⅜ in	**2MET7**
189-227	2 1/16 in	4 ⅜ in	**6FLV8**
216-259	2 1/16 in	4 ⅜ in	**2MET8**
216-259	2 1/16 in	3 ⅜ in	**6FLV9**
233-280	2 1/16 in	4 ⅜ in	**2MET9**
233-280	2 1/16 in	3 ⅜ in	**6FLW0**
243-292	2 1/16 in	3 ⅜ in	**6FLW1**
270-324	2 1/16 in	4 ⅜ in	**2MEU1**
270-324	2 1/16 in	3 ⅜ in	**6FLW3**
280-336	2 1/16 in	4 ⅜ in	**6FLW4**
320-384	2 1/16 in	4 ⅜ in	**2MEU2**
340-408	2 1/16 in	4 ⅜ in	**2MEU3**
378-455	2 9/16 in	4 ⅜ in	**2MEU4**
400-480	2 1/16 in	4 ⅜ in	**2MEU5**
430-516	2 9/16 in	4 ⅜ in	**2MEU6**
630-750	2 9/16 in	4 ⅜ in	**6FLW7**
330V AC			
21-25	1 7/16 in	3 ⅜ in	**6FLU1**
25-30	1 7/16 in	3 ⅜ in	**6FLU3**
30-36	1 7/16 in	3 ⅜ in	**6FLU4**
43-53	1 13/16 in	3 ⅜ in	**6FLU5**
53-64	1 13/16 in	3 ⅜ in	**2MEL2**
64-77	1 13/16 in	3 ⅜ in	**2MEL3**
72-88	1 13/16 in	3 ⅜ in	**2MEL4**
72-88	2 1/16 in	3 ⅜ in	**2MEL5**
88-108	2 1/16 in	3 ⅜ in	**2MEL6**
108-130	2 1/16 in	4 ⅜ in	**2MEL7**
108-130	2 1/16 in	3 ⅜ in	**2MEL8**
124-149	2 1/16 in	4 ⅜ in	**2MEL9**
130-158	2 1/16 in	4 ⅜ in	**2MEP1**
135-162	2 1/16 in	4 ⅜ in	**6FLT8**
145-174	2 1/16 in	4 ⅜ in	**2MEP2**
145-174	2 9/16 in	4 ⅜ in	**6FLT9**
161-193	2 1/16 in	4 ⅜ in	**2MEP3**
189-227	2 9/16 in	4 ⅜ in	**2MEP4**
189-227	2 1/16 in	4 ⅜ in	**6FLU0**
216-259	2 9/16 in	4 ⅜ in	**2MEP5**
216-259	2 1/16 in	4 ⅜ in	**6FLU2**
270-324	2 9/16 in	4 ⅜ in	**2MEP6**
300-360	2 9/16 in	4 ⅜ in	**2MEP7**

2MEW3

2MEY1

2MEW6

2MEW1



2MEV8

Motor Capacitor Accessories

Mounting Brackets—Use in conjunction with end caps to provide secure and electrically safe mounting.

Resistors—Bleed off electrical charge when soldered across capacitor terminals. Prevent contact-point arcing and welding under rapid cycling.

End Caps—Provide weatherproofing for lead connections and facilitate mounting capacitor in bracket. With bottom lead hole, leads exit through bracket; with top lead hole, leads exit opposite bracket.

Jumper Wire Sets—Connect 2 capacitors in series or parallel.

Type	Item No.	Pkg. Qty.
Mounting Brackets For Start Capacitors		
2¾ in Length	**2MEW5**	5
3⅜ in Length	**2MEW4**	5
4⅜ in Length	**2MEW3**	5
Resistors For Start Capacitors		
2 Watt, 15,000 Ohm	**2MEW1**	10
2 Watt, 15,000 Ohm With ¼ in Female Terminals	**2MEW2**	10
2 Watt, 15,000 Ohm With ¼ in Female Terminals	**12N986**	1
End Caps (Bottom Lead Hole) For Run & Start Capacitors		
1 7/16 in Diameter with Bottom Lead Hole	**2MEW6**	5
1 13/16 in Diameter with Bottom Lead Hole	**2MEW7**	5
2 1/16 in Diameter with Bottom Lead Hole	**2MEW8**	5
2 9/16 in Diameter with Bottom Lead Hole	**2MEW9**	5
End Caps (Top Lead Hole) For Run & Start Capacitors		
1 7/16 in Diameter with Top Lead Hole	**2MEY1**	5
1 13/16 in Diameter with Top Lead Hole	**2MEY2**	5
2 1/16 in Diameter with Top Lead Hole	**2MEY3**	5
2 9/16 in Diameter with Top Lead Hole	**2MEY4**	5
Jumper Wire Sets For Run & Start Capacitors		
Includes 4 in Wire with ¼ in Female Terminals	**2MEV8**	10
Includes 6 in Wire with ¼ in Female Terminals	**2MEV9**	10

IMPORTANT MOTOR INFORMATION | Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.

Oval 2MDV1

Round 2MEC1

Motor Run Capacitors

Dayton

- Temp. range: Motor Run -40° to 85°C (-40° to 185°F), Dual Run -40° to 70°C (-40 to 158°F)
- 60/50 Hz

Aluminum, hermetically sealed capacitors improve the electrical performance of motors, air conditioners, and refrigeration equipment. PCB-free, the capacitors feature an aluminum case with steel cover and 1/4" male quick-connect terminals with plastic insulators. Protected to 10,000 AFC.

OVAL RUN CAPACITORS

MFD (µF) Rating	370V AC Overall H	W	D	Item No.	440V AC Overall H	W	D	Item No.
Motor Run								
2	2 11/16"	2"	1 1/4"	**2MDV1**	2 3/4"	2"	1 1/4"	**4UHA5**
3	2 11/16"	2"	1 1/4"	**2MDV2**	2 11/16"	2"	1 1/4"	**4UHA6**
4	2 13/16"	2"	1 1/4"	**2MDV3**	2 11/16"	2"	1 1/4"	**2MDY4**
5	2 13/16"	2"	1 1/4"	**2MDV4**	2 11/16"	2"	1 1/4"	**2MDY5**
6	2 11/16"	2"	1 1/4"	**2MDV5**	2 11/16"	2"	1 1/4"	**2MDY6**
7.5	2 11/16"	1 1/4"	2"	**2MDV6**	2 11/16"	2"	1 1/4"	**2MDY7**
10	3 5/8"	2"	1 1/4"	**2MDV7**	3"	2"	1 1/4"	**2MDY8**
12.5	3 5/16"	2"	1 1/4"	**2MDV8**	3 1/2"	2"	1 1/4"	**4UHA7**
15	3 9/16"	2"	1 1/4"	**2MDV9**	3 1/2"	2"	1 1/4"	**2MDY9**
17.5	3 5/16"	2"	1 1/4"	**2MDW1**	3 1/2"	2"	1 1/4"	**2MDZ1**
20	3 1/2"	2"	1 1/4"	**2MDW2**	2 3/4"	2 3/4"	1 3/4"	**2MDZ2**
25	3 1/2"	2 3/4"	1 3/4"	**2MDW3**	4 1/2"	2 3/4"	1 3/4"	**2MDZ3**
25	—	—	—	—	4 5/8"	2 3/4"	1 3/4"	**6FLN7** *
30	3 1/2"	2 3/4"	1 3/4"	**2MDW4**	4 1/2"	2 3/4"	1 3/4"	**2MDZ4**
35	3 7/8"	2 3/4"	1 3/4"	**2MDW5**	4 1/2"	2 3/4"	1 3/4"	**2MDZ5**
40	4 11/16"	2 3/4"	1 3/4"	**2MDW6**	4 11/16"	2 3/4"	1 3/4"	**2MDZ6**
45	4 1/2"	2 3/4"	1 3/4"	**2MDW7**	4 1/2"	2 3/4"	1 3/4"	**2MDZ7**
50	4 1/2"	2 3/4"	1 3/4"	**2MDW8**	4 1/2"	2 3/4"	1 3/4"	**2MDZ8**
55	5 1/4"	2 3/4"	1 3/4"	**2MDW9**	5 7/16"	2 3/4"	1 3/4"	**2MDZ9**
60	5 7/16"	2 3/4"	1 3/4"	**2MDX1**	5 7/16"	2 3/4"	1 3/4"	**2MEA1**
70	5 5/8"	2 3/4"	1 3/4"	**6FLN1**	5 11/16"	2 3/4"	1 3/4"	**6FLN8**
80	5 5/8"	2 3/4"	1 3/4"	**2MDX2**	5 5/8"	2 3/4"	1 3/4"	**4UHA8**
Dual Run								
15/3	3 3/8"	2 3/4"	1 3/4"	**6FLN2**	—	—	—	—
15/4	3 3/8"	2 3/4"	1 3/4"	**6FLN3**	—	—	—	—
15/5	3 7/16"	2 3/4"	1 3/4"	**2MDX3**	3 7/16"	2 3/4"	1 3/4"	**6FLN9**
17.5/5	3 3/8"	2 3/4"	1 3/4"	**2MDX4**	—	—	—	—
20/5	4 5/8"	2 3/4"	1 3/4"	**2MDX5**	—	—	—	—
25/5	4 3/4"	2 3/4"	1 3/4"	**2MDX6**	4 5/8"	2 3/4"	1 3/4"	**2MEA2**
30/5	4 11/16"	2 3/4"	1 3/4"	**2MDX7**	4 5/8"	2 3/4"	1 3/4"	**2MEA3**
30/7.5	4 5/8"	2 3/4"	1 3/4"	**4UGZ8**	4 5/8"	2 3/4"	1 3/4"	**4UHA9**
35/3	4 5/8"	2 3/4"	1 3/4"	**6FLN5**	4 5/8"	2 3/4"	1 3/4"	**6FLP0**
35/4	4 5/8"	2 3/4"	1 3/4"	**6FLN6**	—	—	—	—
35/5	4 3/4"	2 3/4"	1 3/4"	**2MDX8**	4 5/8"	2 3/4"	1 3/4"	**2MEA4**
35/7.5	5 1/4"	2 3/4"	1 3/4"	**2MDX9**	5 1/4"	2 3/4"	1 3/4"	**4UHC1**
35/10	5 1/4"	2 3/4"	1 3/4"	**6FLN4**	—	—	—	—
40/5	5 1/4"	2 3/4"	1 3/4"	**2MDY1**	5 1/4"	2 3/4"	1 3/4"	**2MEA5**
40/7.5	5 1/4"	2 3/4"	1 3/4"	**2MDY2**	5 1/4"	2 3/4"	1 3/4"	**4UHC2**
40/10	5 1/4"	2 3/4"	1 3/4"	**12N962**	—	—	—	—
45/5	5 1/4"	2 3/4"	1 3/4"	**2MDY3**	5 1/4"	2 3/4"	1 3/4"	**2MEA6**
45/7.5	—	—	—	—	5 1/4"	2 3/4"	1 3/4"	**12N964**
45/10	5 1/4"	2 3/4"	1 3/4"	**12N963**	—	—	—	—
50/5	5 5/8"	2 3/4"	1 3/4"	**4UGZ9**	5 11/16"	2 3/4"	1 3/4"	**2MEA7**
55/5	6 3/8"	2 3/4"	1 3/4"	**4UHA1**	6 7/16"	2 3/4"	1 3/4"	**2MEA8**
55/7.5	6 3/8"	2 3/4"	1 3/4"	**4UHA2**	—	—	—	—
55/10	—	—	—	—	6 3/8"	2 3/4"	1 3/4"	**6FLP1**
60/5	6 3/8"	2 3/4"	1 3/4"	**4UHA3**	6 7/16"	2 3/4"	1 3/4"	**2MEA9**
60/7.5	6 3/8"	2 3/4"	1 3/4"	**4UHA4**	—	—	—	—

** 480VAC.*

ROUND RUN CAPACITORS

MFD (µF) Rating	370V AC Overall H	W	D	Item No.	440V AC Overall H	W	D	Item No.
Motor Run								
5	2 9/16"	1 9/16"	2 3/4"	**2MEC1**	2 11/16"	1 9/16"	2 3/4"	**2MEG4**
6	2 11/16"	1 9/16"	2 3/4"	**6FLP3**	—	—	—	—
7.5	2 11/16"	1 9/16"	2 3/4"	**2MEC2**	3"	1 9/16"	2 3/4"	**2MEG5**
10	3"	1 9/16"	2 3/4"	**2MEC3**	3"	1 9/16"	2 3/4"	**2MEG6**
12.5	3"	1 9/16"	2 3/4"	**2MEC4**	3"	1 9/16"	2 3/4"	**2MEG7**
15	3"	1 9/16"	2 3/4"	**2MEC5**	3"	1 9/16"	2 3/4"	**2MEG8**
17.5	3"	1 9/16"	2 3/4"	**2MEC6**	3 5/16"	1 9/16"	2 3/4"	**2MEG9**
20	3 5/16"	1 9/16"	2 3/4"	**2MEC7**	3 5/16"	1 9/16"	2 3/4"	**2MEH1**
22.5	3 5/8"	1 3/4"	1 3/4"	**39P226**	—	—	—	—
25	3 5/16"	1 3/4"	2 15/16"	**2MEC8**	4"	1 3/4"	3 9/16"	**2MEH2**
30	4 5/8"	2"	2"	**2MEC9**	4"	1 15/16"	3 15/16"	**2MEH3**
35	3 1/2"	1 15/16"	2 15/16"	**2MEE1**	4 7/16"	1 15/16"	3 15/16"	**2MEH4**
40	4 7/16"	2"	2"	**2MEE2**	4 7/16"	1 15/16"	3 15/16"	**2MEH5**
45	4 7/16"	1 15/16"	3 15/16"	**2MEE3**	4 7/16"	1 15/16"	3 15/16"	**2MEH6**
50	4 7/16"	1 15/16"	3 15/16"	**2MEE4**	5 7/16"	1 15/16"	3 15/16"	**2MEH7**
55	4 7/16"	1 15/16"	3 15/16"	**4UHC3**	5 7/16"	1 15/16"	3 15/16"	**2MEH8**
60	4 7/16"	2 3/8"	3 15/16"	**2MEE5**	5 7/16"	2 3/8"	4 15/16"	**2MEH9**
70	5 1/2"	2 3/8"	—	**6FLP4**	5 7/16"	2 3/8"	4 15/16"	**6FLR8**
80	4 7/16"	2 3/8"	2 3/8"	**2MEE6**	5 1/4"	2 3/8"	2 3/8"	**2MEJ1**
100	5 5/8"	2 1/2"	—	**6FLP2**	—	—	—	—
Dual Run								
20/5	—	—	—	—	4 5/8"	2"	—	**4UHC6**
25/3	4 5/8"	2"	—	**6FLP5**	—	—	—	—
25/4	4 5/8"	2"	—	**12N967**	—	—	—	—
25/5	4 5/8"	2"	—	**2MEE7**	4 5/8"	1 31/32"	—	**2MEJ2**
25/7.5	—	—	—	—	4 5/8"	2"	—	**6FLR9**
30/3	4 5/8"	2"	—	**6FLP6**	4 5/8"	2"	—	**6FLT0**
30/4	4 5/8"	2"	—	**6FLP7**	—	—	—	—
30/5	4 5/8"	2"	—	**2MEE8**	4 5/8"	1 31/32"	—	**2MEJ3**
30/7.5	4 5/8"	1 31/32"	—	**4UHC4**	4 5/8"	1 31/32"	—	**2MEJ4**
35/3	4 13/16"	1 15/16"	—	**6FLP8**	4 13/16"	1 15/16"	—	**6FLT1**
35/4	—	—	—	—	4 13/16"	1 15/16"	—	**6FLT2**
35/5	4 5/8"	2"	—	**2MEE9**	4 5/8"	1 31/32"	—	**2MEJ5**
35/7.5	4 5/8"	2 5/32"	—	**2MEF1**	4 5/8"	2 3/8"	—	**2MEJ6**
40/3	4 5/8"	2 3/8"	—	**6FLP9**	4 5/8"	2 1/2"	—	**6FLT3**
40/5	4 5/8"	2 3/8"	—	**2MEF2**	4 5/8"	2 3/8"	—	**2MEJ7**
40/7.5	5 1/4"	2 3/8"	—	**2MEF3**	5 1/4"	2 3/8"	—	**2MEJ8**
45/3	5 1/4"	2 3/8"	—	**6FLR0**	5 1/4"	2 3/8"	—	**6FLT4**
45/5	5 1/4"	2 3/8"	—	**2MEF4**	5 1/4"	2 3/8"	—	**2MEJ9**
45/7.5	5 1/4"	2 3/8"	—	**2MEF5**	5 1/4"	2 3/8"	—	**2MEK1**
50/3	5 1/4"	2 3/8"	—	**6FLR2**	—	—	—	—
50/5	5 1/4"	2 3/8"	—	**2MEF6**	5 1/4"	2 3/8"	—	**2MEK2**
50/7.5	5 1/4"	2 3/8"	—	**2MEF7**	5 1/4"	2 3/8"	—	**2MEK3**
50/10	5 1/4"	2 3/8"	—	**6FLR1**	—	—	—	—
55/5	5 1/4"	2 3/8"	—	**2MEF8**	5 1/4"	2 3/8"	—	**2MEK4**
55/7.5	5 1/4"	2 3/8"	—	**6FLR4**	5 1/4"	2 3/8"	—	**2MEK5**
55/10	5 1/4"	2 1/2"	—	**6FLR3**	—	—	—	—
60/3	—	—	—	—	5 1/4"	2 1/2"	—	**6FLT5**
60/5	5 1/4"	2 1/2"	—	**2MEF9**	5 1/4"	2 3/8"	—	**2MEK6**
60/7.5	5 1/4"	2 1/2"	—	**2MEG1**	5 1/4"	2 3/8"	—	**2MEK7**
60/10	—	—	—	—	5 1/4"	2 1/2"	—	**2MEK8**
70/5	5 5/8"	2 3/8"	—	**6FLR5**	5 5/8"	2 3/8"	—	**6FLT6**
70/7.5	5 5/8"	2 3/8"	—	**6FLR6**	5 5/8"	2 3/8"	—	**6FLT7**
80/5	5 5/8"	2 3/8"	—	**2MEG2**	5 5/8"	2 1/2"	—	**2MEK9**
80/7.5	5 5/8"	2 3/8"	—	**2MEG3**	5 5/8"	2 3/8"	—	**2MEL1**
80/10	5 13/16"	2 1/2"	—	**6FLR7**	5 13/16"	2 1/2"	—	**12N968**

Rectangle Motor Run Capacitors

Dayton

- Temp. range: -40° to 85°C (-40° to 185°F)
- 60/50 Hz

Feature ABS plastic case constructed with self-healing dielectric metalized polypropylene film, with 1/4" blade, quick-connect terminals, and metal tab mounting bracket. For use in blower, fan, and pump motors. Rectangular shape.

22F163

MFD (µF) Rating	Overall H	W	D	Item No.
370V AC				
2	1 1/2 in	1 7/16 in	21/32 in	**22F163**
3	1 1/2 in	1 7/16 in	21/32 in	**22F164**
4	1 7/8 in	1 7/16 in	7/8 in	**22F165**
5	1 7/8 in	1 7/16 in	7/8 in	**22F166**
7.5	2 in	1 7/8 in	1 in	**22F167**
8	2 in	1 7/8 in	1 in	**22F168**
10	2 1/4 in	2 1/4 in	1 3/16 in	**22F169**
12.5	2 1/4 in	2 1/4 in	1 3/16 in	**22F170**
15	2 1/4 in	2 1/4 in	1 3/16 in	**22F171**
440V AC				
2	1 1/2 in	1 7/16 in	21/32 in	**22F172**
3	1 1/2 in	1 7/16 in	21/32 in	**22F173**
4	1 7/8 in	1 7/16 in	7/8 in	**22F174**
5	1 7/8 in	1 7/16 in	7/8 in	**22F175**
7.5	2 in	1 7/8 in	1 in	**22F176**
8	2 in	1 7/8 in	1 in	**22F177**
10	1 5/8 in	2 1/4 in	1 3/16 in	**22F178**
12.5	2 1/4 in	2 1/4 in	1 3/16 in	**22F179**
15	2 1/4 in	2 1/4 in	1 3/16 in	**22F180**

Guard
2MEU9

ebmpapst Dayton

Motor Capacitor Connector Protectors

These terminal covers and boots shield lead connectors from debris and moisture. They prevent accidental shock that could occur if terminals are exposed.

Compatible Cap. Width	Lead Hole Location	No. of Lead Holes	Item No.	Pkg. Qty.
Round Rubber Boot, ebmpabst				
1 3/4 in	Top	1	**5AGK8**	1
Oval Terminal Cover, Dayton				
1 1/2 in	Side	1	**12N982**	5
1 1/2 in	Top	1	**12N983**	5
1 1/2 in	Top	2	**12N984**	5
2 3/8 in	Side	3	**12N985**	5
Oval Terminal Guard, Dayton				
2 in	Side	1	**2MEU9**	1

Dayton

Kit 2MEV1

Motor Capacitor Mounting Straps

Brackets secure a capacitor to a motor or surrounding equipment.

Compatible Cap. Shape	Compatible Cap. Dim.	Item No.	Pkg. Qty.
Bracket			
Round	1 3/4 in D	**12N979**	5
Round	2 in D	**12N980**	5
Round	2 1/2 in D	**12N981**	5
Oval	1 29/32 in W	**12N977**	5
Oval	1 31/32 in W x 3 21/32 in D	**12N978**	5
Oval	2 5/32 in W x 1 5/16 in D	**12N976**	5
Kit (Incl. Bracket, Hardware, Rubber Boot)			
Oval	2 1/8 in W x 1 1/4 in D	**2MEV1**	1

Selecting a Gearmotor

A gearmotor is an electro/mechanical device using an electric motor to drive a geartrain encased in a housing. The geartrain reduces output speed while increasing available torque. Gearmotors move an object in a given direction at a rate of speed (RPM), and provide the required twisting force (torque). Select your model once load input performance requirements are identified. You must know the speed and torque requirements of the load to be driven. Unusual loads or harsh environments need to be considered before selecting a driving device. Horsepower (HP) is not a factor in selecting a standard gearmotor, since each model is designed for a specific performance level.

Parallel-Shaft have helical and spur gears. First stage gears are phenolic, nylon, or steel and typically helical for low noise. Subsequent gears are usually metallic (sintered or hardened cut steel) depending on the performance level of the gearmotor. Parallel-shaft models offer high efficiency in compact sizes.

Right-Angle include mainly worm-type gears of precision-machined steel. Worm wheel is often bronze, but may be phenolic or cast iron. These gearmotors can be heavier construction, handle higher shock loads, and run quieter than comparably-sized parallel-shaft designs, but often less efficiently.

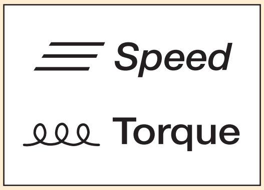
Parallel-Shaft 4ZJ45

Mechanical Considerations

Speed. How fast should equipment or an object move? Output speeds are available from less than 1/2 rpm (revolution per minute) to nearly 350 rpm, depending on motor type and gear ratio. Based on your application, you may need to consider whether additional modified speeds will be produced through sheaves or sprocket type drive systems before determining gearmotor output speed.

Starting Torque provides initial power to get things moving. On large conveyors, starting torque requirement may be high while a small rotating display cabinet may require very little torque to overcome resistance. Small gearmotors typically have "start" and "run" torque specifications shown due to their lower overall output capabilities. Starting torque ratings can be lower than maximum running torque ratings. Heavier duty gearmotors are usually only rated for their full-load (running) torque capability since starting torque is relatively high.

Running Torque (Full Load) is the continuous twisting force to keep things moving after initial start and must maintain power under all variable load situations to provide adequate service. Running torque listed in the catalog is the maximum torque available for safe, continuous operation. Frequent starts and stops will require use of starting torque more frequently. This could result in excessive heat build-up, causing premature motor failure.



From	Into	Multiply By
in.-lb.	ft.-lb.	0.0833
ft.-lb.	in.-lb.	12
in.-oz.	in.-lb.	0.0625
in.-lb.	in.-oz.	16

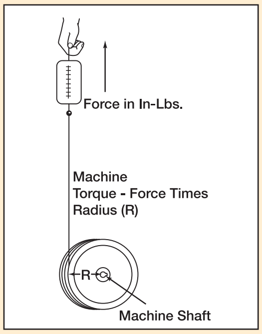
How To Measure Torque
Caution: Disconnect Power Before Proceeding

Torque required to drive a machine may be measured by using a flat grooved pulley, a cord and a spring scale rated in lbs. Pulley must be rigidly attached to machine's drive shaft, with cord wrapped several times around pulley. Do not allow cord to overlap. The other end is tied to the scale. When the scale is pulled, it will turn the pulley. When the pulley first starts to turn, the scale will register starting force required in pounds.

Force registered on scale, in pounds, when multiplied by radius of pulley (radius is measured from the center of machine shaft to center of cord), in inches, yields the starting torque, in in.-lbs. required by machine.

If torque characteristics of the machine (load) vary during its operating cycle, torque must be determined at the point in the cycle where it is the greatest.

If pulley can be turned (by pulling on cord) at a rate equal to normal speed of driven equipment, an indication of running torque can be obtained. If load of machine is almost entirely due to friction, running requirement will be essentially the same regardless of speed. However, if load is primarily the result of inertia or windage (air drag), characteristics of the inertia or windage elements must be known.



Electrical Considerations

Before you can select the best gearmotor for your application, you need to identify your intended power supply. AC and DC input gearmotors from 12VDC to 460VAC are available. This chart provides typical characteristics of different motor types as a guide for your selection.

Type	Starting Torque	Reversible	Speed Controllable	Features
Shaded Pole	Low	No	No	Rugged, Relative Low Cost
PSC	Medium	Yes	No	Reversible, Quiet Operation
Split-Phase	Med/High	Yes	No	Fairly High Start Torque
Capacitor-Start	High	Yes	No	Heavy-Duty Start-Ups, Dual Voltage
3-Phase	High	Yes	No*	Simple, Reliable, High Start Power and Efficiency
DC	High	Yes	Yes†	Speed Controllable, High Start Torque
Universal AC/DC	High	Yes	Yes†	Speed Controllable, Relatively Low Cost, Simple Operation

Inverter-Duty motors can be controlled with an inverter. † Performance matched speed controls are available for many catalog gearmotor listings.

Loads

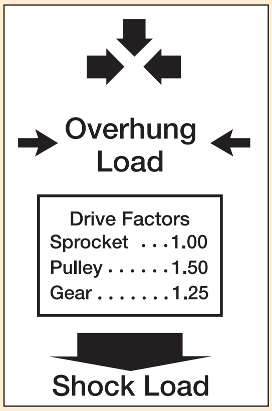
Driven items connected to and driven by the gearmotor output shaft constitute the load. Not all loads coupled to gearmotors have steady speed and torque requirements. Some loads demand power surges from the gearmotor during running cycle. This can be abusive to gears. Also, environmental conditions and space restrictions need to be taken into account. Two types of loads that require careful consideration before selecting a gearmotor are Overhung (Radial) Load and Shock Load.

Overhung (Radial) Load (OHL) is the perpendicular force pushing against the side of an output shaft. This force is either from a weight hanging on the output shaft or from a sprocket, pulley or gear being used on the shaft. Every gearmotor has an OHL specification which should not be exceeded.

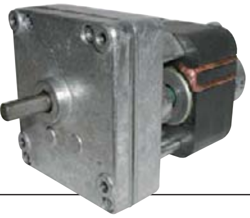
If you plan to use a sprocket, pulley, gear or any weight suspended directly on the shaft, calculate OHL to aid selection of the gearmotor. First, use the formula below to determine the pounds of load. Second, multiply pounds of load by the appropriate drive factor at right to determine actual OHL ratings in pounds on center of output shaft.

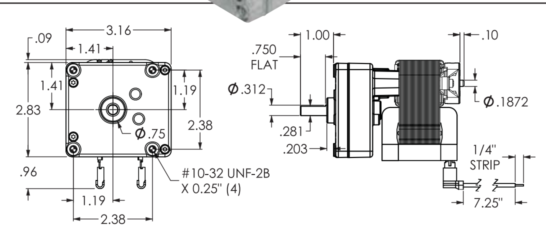
$$\frac{\text{Full-Load Torque (Requirement of Gearmotor)} \times 2}{\text{Pitch Dia. of Sprocket, Pulley or Gear}} = \text{Lbs. of Load}$$

Shock Load. Some applications subject gearmotors to loads that transmit shock or abrupt peak loads back to the gearmotor. Shock load can create peak loads several times greater than gearmotor torque rating. For example, when a heavy object accidentally is dropped on a running conveyor, this causes shock to gears and may even break them. Be sure the gearmotor is rated high enough to handle maximum anticipated shock load conditions.



1MBF3





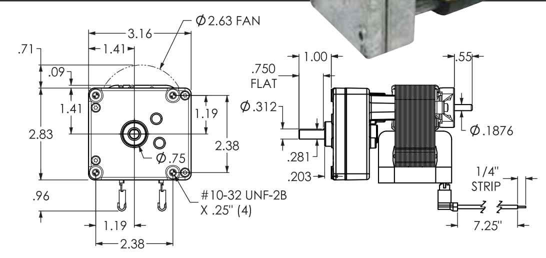
115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated cut steel and acetal
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: impedance

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1 RPM	50 in-lb	41 lb	1/670 hp	3231:1	0.38	4 in	**1MBF3**
2.2 RPM	32 in-lb	41 lb	1/476 hp	1526:1	0.38	4 in	**1MBF4**
6.6 RPM	25 in-lb	41 lb	1/229 hp	504:1	0.38	4 in	**1MBF5**
11.5 RPM	26 in-lb	41 lb	1/138 hp	294:1	0.57	3 ⅞ in	**1MBF6**
20 RPM	15 in-lb	41 lb	1/139 hp	168:1	0.57	3 ⅞ in	**1MBF7**
30.6 RPM	12 in-lb	41 lb	1/112 hp	107:1	0.57	3 ⅞ in	**1MBF8**
66 RPM	4.7 in-lb	41 lb	1/148 hp	51:1	0.57	3 ⅞ in	**1MBF9**
130 RPM	2.7 in-lb	41 lb	1/145 hp	26:1	0.57	3 ⅞ in	**1MBG1**
197 RPM	2.2 in-lb	41 lb	1/195 hp	16:1	0.38	3 ½ in	**1MBG2**

1MBG3



115VAC Shaded Pole Parallel-Shaft Gearmotors

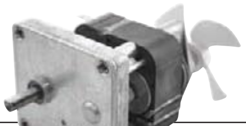
Dayton

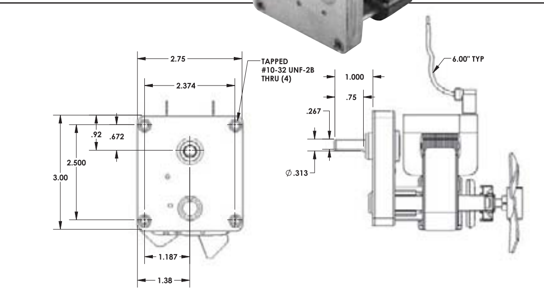
- Enclosure: open
- Gearcase: gasketed die-cast zinc with screws
- Lubrication: grease filled
- Gears: hardened steel and phenolic
- Bearings: roller on case; ball and porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class B

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1 RPM	100 in-lb	54 lb	1/316 hp	3231:1	0.62	4 ¾ in	**1MBG3**
6.7 RPM	50 in-lb	41 lb	1/111 hp	504:1	0.62	4 ¾ in	**1MBG4**
13 RPM	50 in-lb	18 lb	1/64 hp	252:1	1.2	4 ⅝ in	**1MBG5**
214 RPM	5 in-lb	2 lb	1/43 hp	16:1	1.4	4 ⅞ in	**1MBG6**
368 RPM	3.3 in-lb	1 lb	1/42 hp	9:1	1.4	4 ⅞ in	**1MBG7**

52JD91





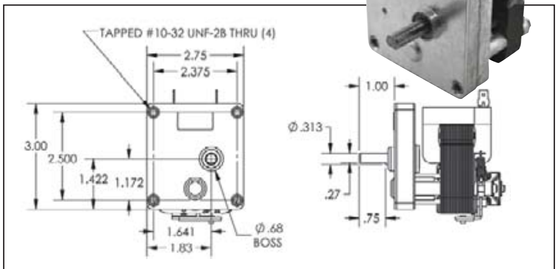
115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C

Nameplate RPM	Starting Torque	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Gearmotor Mounting Position	Item No.
Magnetic Brake									
25 RPM	11 in-lb	13 in-lb	30 lb	1/70 hp	125.5:1	0.75	4 ⅛ in	All Angle	**52JD92**
50 RPM	4.5 in-lb	6 in-lb	30 lb	1/70 hp	69.2:1	0.75	4 ⅛ in		**52JD93**
Cone Brake									
25 RPM	11 in-lb	13 in-lb	30 lb	1/70 hp	125.5:1	0.75	4 ⅛ in	Horizontal	**52JD91**
50 RPM	4.5 in-lb	6 in-lb	30 lb	1/70 hp	69.2:1	0.75	4 ⅛ in		**52JD94**

52JE19



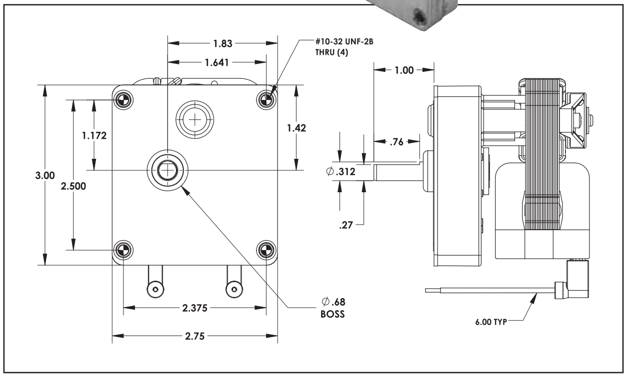
115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Brake	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
7 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Magnetic	0.52	3 ¼ in	**52JE19**
7 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Cone	0.52	3 ½ in	**52JE20**
230V AC, 50 Hz (3 leads)								
5.8 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Magnetic	0.26	3 ¼ in	**52JE18**

A.



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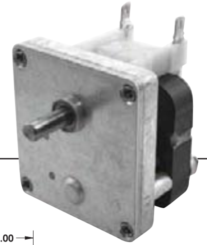
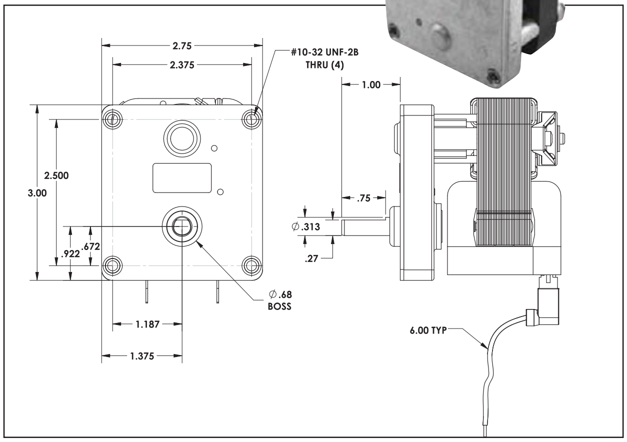




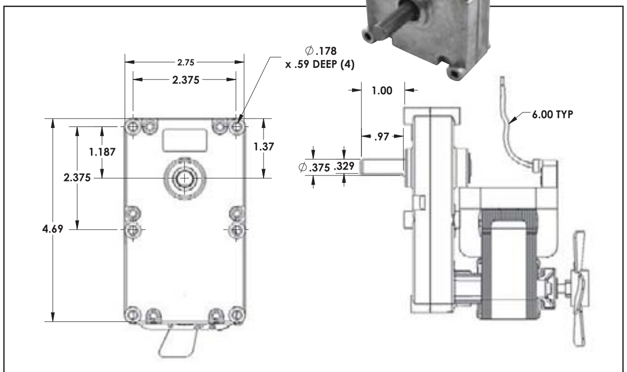
115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
A	1.1 RPM	50 in-lb	30 lb	1/250 hp	2847:1	0.38	2 3/8 in	**52JE26**
A	6.9 RPM	35 in-lb	30 lb	1/100 hp	439.3:1	0.52	2 3/8 in	**52JE27**
B	18 RPM	13 in-lb	30 lb	1/100 hp	172:1	0.50	2 3/4 in	**52JE29**
B	25 RPM	9.3 in-lb	30 lb	1/100 hp	114.3:1	0.50	2 3/8 in	**52JE30**
B	35 RPM	8.3 in-lb	30 lb	1/100 hp	86.8:1	0.50	2 3/8 in	**52JE31**
B	50 RPM	4.2 in-lb	30 lb	1/100 hp	69.15:1	0.50	2 3/8 in	**52JE28**
230V AC, 50 Hz								
A	0.9 RPM	50 in-lb	30 lb	1/250 hp	2847:1	0.25	2 5/8 in	**52JE21**
A	5.8 RPM	35 in-lb	30 lb	1/100 hp	439.3:1	0.26	2 3/4 in	**52JE22**
B	16 RPM	13 in-lb	30 lb	1/100 hp	167.4:1	0.25	2 3/8 in	**52JE24**
B	21 RPM	9.3 in-lb	30 lb	1/100 hp	114.3:1	0.25	2 3/8 in	**52JE25**
B	41 RPM	4.2 in-lb	30 lb	1/100 hp	69.15:1	0.26	2 3/8 in	**52JE23**

A.



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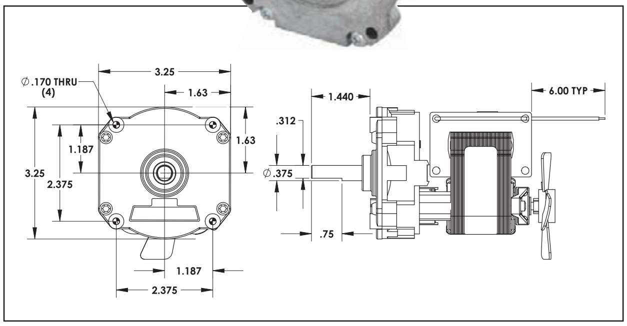


115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

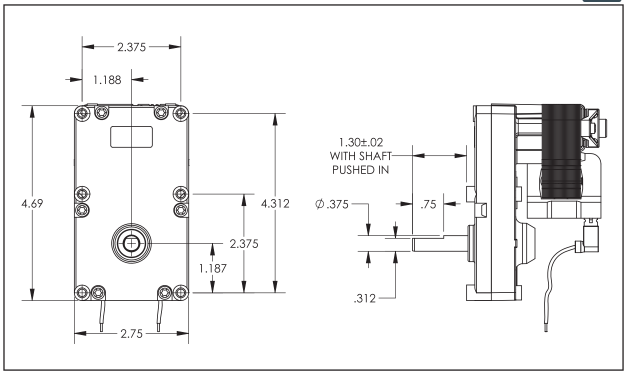
- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
A	6 RPM	72 in-lb	30 lb	1/60 hp	529.2:1	1.0	4 5/8 in	**52JE02** *
A	6.3 RPM	120 in-lb	30 lb	1/60 hp	529.2:1	1.5	4 1/4 in	**52JD98**
A	25 RPM	22 in-lb	30 lb	1/60 hp	145:1	1.3	4 5/8 in	**52JD99**
A	22 RPM	21 in-lb	30 lb	1/60 hp	145:1	1.3	4 5/8 in	**52JE03** *
A	50 RPM	12 in-lb	30 lb	1/60 hp	63.4:1	1.3	4 1/4 in	**52JE01**
A	50 RPM	12 in-lb	30 lb	1/60 hp	63.4:1	1.3	4 5/8 in	**52JE04** *
B	10 RPM	65 in-lb	30 lb	1/60 hp	294:1	1.9	4 25/32 in	**52JD97**
230V AC, 50 Hz (3 leads)								
A	5 RPM	120 in-lb	30 lb	1/60 hp	529.2:1	0.75	4 1/4 in	**52JD95**
230V AC, 60/50 Hz (3 leads)								
A	5 RPM	72 in-lb	30 lb	1/60 hp	529.2:1	0.55	4 5/8 in	**52JD96** *†

** Includes magnetic clapper brake. † Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.*

52JE05

Commonly used in pellet and corn stoves and other appliances requiring higher torque



115VAC Shaded Pole Parallel-Shaft Gearmotors

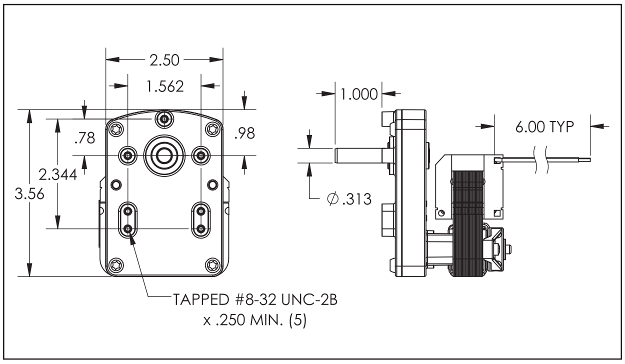
Dayton®

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: Delrin and sintered steel
- Bearings: needle on case; porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Thermal Protection	CW ROTATION Item No.	CCW ROTATION Item No.
1 RPM	150 in-lb	30 lb	1⁄200 hp	2851.8:1	0.45	3 ⅜ in	Impedance	**52JE10**	**52JE05**
2 RPM	135 in-lb	30 lb	1⁄30 hp	1428.7:1	0.45	3 ⅜ in	Impedance	**52JE09**	**52JE06**
4 RPM	70 in-lb	30 lb	1⁄60 hp	823.4:1	0.45	3 ⅜ in	Impedance	**52JE11**	—
4 RPM	75 in-lb	30 lb	1⁄60 hp	823.4:1	0.45	3 ⅜ in	Impedance	—	**52JE07**
6 RPM	100 in-lb	30 lb	1⁄50 hp	525:1	1.30	3 ⅝ in	Auto	**52JE12**	**52JE08**
10 RPM	100 in-lb	30 lb	1⁄50 hp	333.6:1	1.30	3 ⅜ in	Auto	**52JE13**	—
25 RPM	45 in-lb	30 lb	1⁄50 hp	145:1	1.30	3 ⅜ in	Auto	**52JE14**	—
50 RPM	25 in-lb	30 lb	1⁄50 hp	63.4:1	1.30	3 ⅜ in	Auto	**52JE15**	—

52JE16

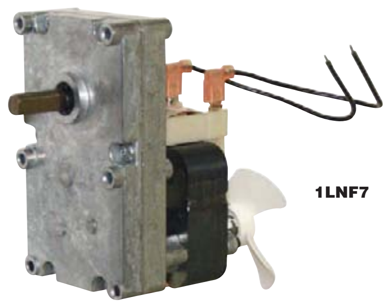


115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

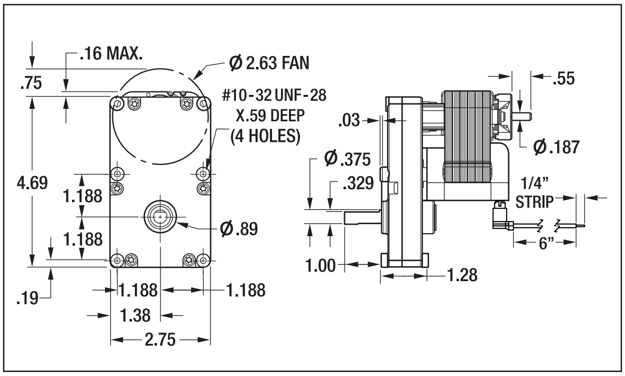
Dayton®

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz							
4.6 RPM	18 in-lb	30 lb	1⁄250 hp	709.17:1	0.32	2 ⅞ in	**52JE17**
230V AC, 50 Hz (3 leads)							
4.1 RPM	18 in-lb	30 lb	1⁄250 hp	709.17:1	0.32	2 ⅞ in	**52JE16**



1LNF7



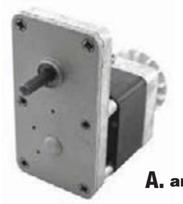
115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton®

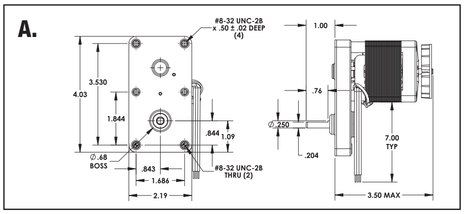
- Enclosure: open
- Gearcase: die-cast zinc with screws and gasketed cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: needle on cover; ball bearing and bronze on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class A

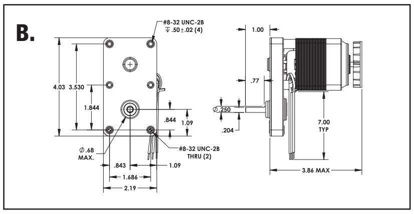
Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1 RPM	100 in-lb	56 lb	1⁄80 hp	2976:1	0.5	4 ¼ in	**1LNG2**
4 RPM	130 in-lb	56 lb	1⁄80 hp	762:1	0.7	4 ¼ in	**1LNF7**
6 RPM	150 in-lb	65 lb	1⁄50 hp	529:1	1.3	4 ⅝ in	**1LNF8**
26 RPM	45 in-lb	15 lb	1⁄50 hp	126:1	1	4 ⅝ in	**1LNF9**
52 RPM	25 in-lb	10 lb	1⁄50 hp	63:1	1.3	4 ⅝ in	**1LNG1**



A. and B.





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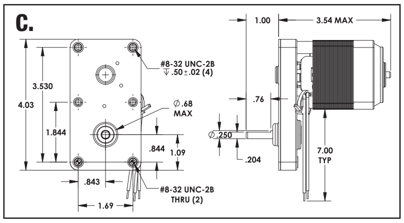

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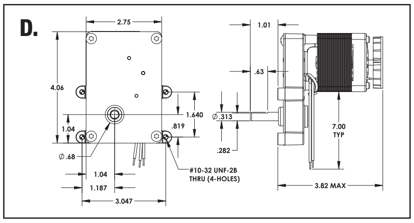


115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position (**A.** and **D.** only); output shaft horizontal (**B.** and **C.** only)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: auto
- Capacitor: 2MDV3 required (sold separately on Grainger.com)
- Brake: friction (**B.** and **C.** only)
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
A	4 RPM	30 in-lb	30 lb	1/100 hp	643.5:1	0.35	3 1/2 in	**52JE32** *
	20 RPM	13 in-lb	30 lb	1/100 hp	123:1	0.35	3 1/2 in	**52JE36**
	30 RPM	7.5 in-lb	30 lb	1/100 hp	99.8:1	0.35	3 1/2 in	**52JE33**
	60 RPM	4 in-lb	30 lb	1/100 hp	49.9:1	0.35	3 1/2 in	**52JE34**
	100 RPM	2 in-lb	30 lb	1/100 hp	30.6:1	0.35	3 1/2 in	**52JE35**
B	1 RPM	42 in-lb	30 lb	1/100 hp	2541:1	0.35	3 7/8 in	**52JE38**
	4 RPM	26 in-lb	30 lb	1/100 hp	654.2:1	0.35	3 7/8 in	**52JE39**
	7 RPM	18 in-lb	30 lb	1/100 hp	360:1	0.35	3 7/8 in	**52JE40**
C	12 RPM	11 in-lb	30 lb	1/100 hp	256:1	0.35	3 7/8 in	**52JE41**
	18 RPM	8 in-lb	30 lb	1/100 hp	174.7:1	0.35	3 7/8 in	**52JE42**
	25 RPM	6 in-lb	30 lb	1/100 hp	124:1	0.35	3 7/8 in	**52JE43**
	55 RPM	2.6 in-lb	30 lb	1/100 hp	57:1	0.35	3 7/8 in	**52JE44**
	98 RPM	1.5 in-lb	30 lb	1/100 hp	30.6:1	0.35	3 7/8 in	**52JE45**
D	10 RPM	30 in-lb	30 lb	1/100 hp	281:1	0.35	4 in	**52JE37**

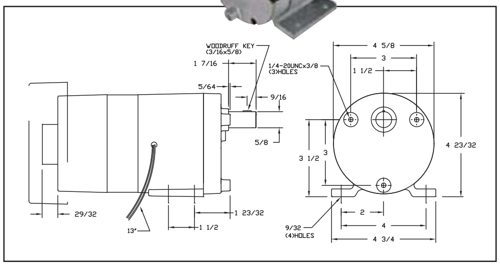
*** Shaft dia.: 0.313".*

115VAC Shaded Pole Parallel-Shaft Gearmotors

- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: acetal and steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: none
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Open, Fan-Cooled, No Brake							
7 RPM	113 in-lb	150 lb	1/10 hp	250:1	2.6	7 7/8 in	**1LPN5**
13 RPM	113 in-lb	150 lb	1/10 hp	128:1	2.6	7 7/8 in	**1LPN2**
30 RPM	113 in-lb	150 lb	1/10 hp	52:1	2.6	7 7/8 in	**1LPL8**
60 RPM	59 in-lb	150 lb	1/10 hp	27:1	2.6	7 7/8 in	**1LPL6**
Open, Fan-Cooled, Power Off Disc Brake							
2 RPM	113 in-lb	150 lb	1/10 hp	750:1	2.6	8 7/8 in	**1LPN7**
7 RPM	113 in-lb	150 lb	1/10 hp	250:1	2.6	8 7/8 in	**1LPN4**
13 RPM	113 in-lb	150 lb	1/10 hp	128:1	2.6	8 7/8 in	**1LPN1**
30 RPM	113 in-lb	150 lb	1/10 hp	52:1	2.6	8 7/8 in	**1LPL7**
60 RPM	59 in-lb	150 lb	1/10 hp	27:1	2.6	8 7/8 in	**1LPL2**
TEFC, No Brake							
2 RPM	113 in-lb	150 lb	1/20 hp	750:1	1.6	7 1/2 in	**1LPN8**
7 RPM	113 in-lb	150 lb	1/20 hp	250:1	1.6	7 1/2 in	**1LPN6**
13 RPM	113 in-lb	150 lb	1/20 hp	128:1	1.6	7 1/2 in	**1LPN3**
30 RPM	42 in-lb	150 lb	1/20 hp	52:1	1.6	7 1/2 in	**1LPL9**

1LPL2



115/230 and 115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

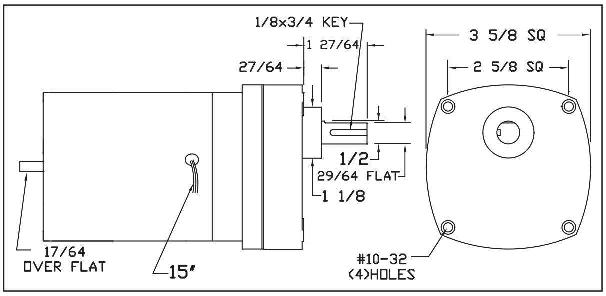
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel
- Bearings: needle throughout; ball on motor
- Mounting: all-position, optional mounting bracket 2A754 (sold separately on Grainger.com)
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (sold separately on Grainger.com) using 1 disc in brake

Note: Ratings shown are at 60 Hz. Gearmotors 2H604 and 2H602 are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV, 115/230V AC, 60/50 Hz							
4.6 RPM	160 in-lb	115 lb	1/20 hp	362:1	0.38/0.22	7 1/2 in	**2H604**
17 RPM	150 in-lb	150 lb	1/20 hp	96:1	0.56/0.29	6 3/4 in	**2H602**
Open, 115V AC, 60 Hz							
33 RPM	165 in-lb	130 lb	1/10 hp	49:1	1.05	7 1/2 in	**2H600**
63 RPM	90 in-lb	230 lb	1/10 hp	25:1	1.05	7 1/2 in	**2H598**
124 RPM	47 in-lb	220 lb	1/10 hp	13:1	1.05	7 1/2 in	**2H596**

2H604

2H600

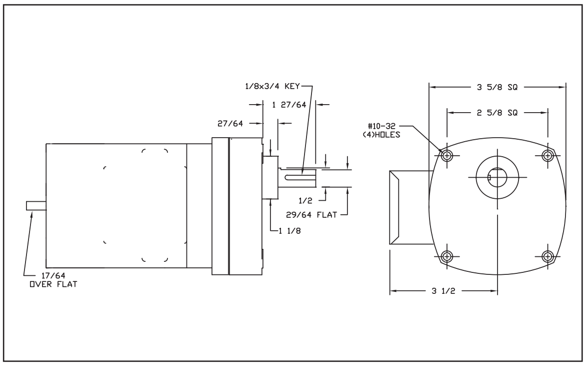


115, 230, and 115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

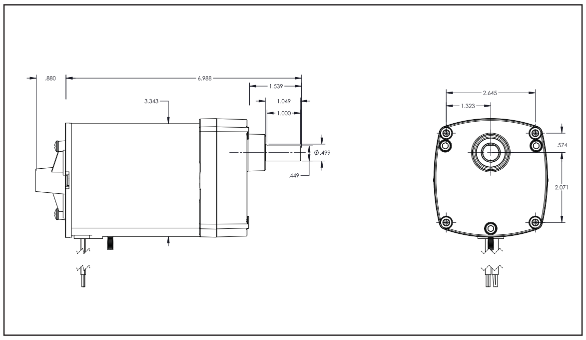
Note: Ratings shown are at 60 Hz. 60/50-Hz gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating. 6Z081, 6Z082, 6Z083, 6A197, 6Z084, and 6A196 are operable at 60 Hz only.

A.
Shown with conduit box accessory



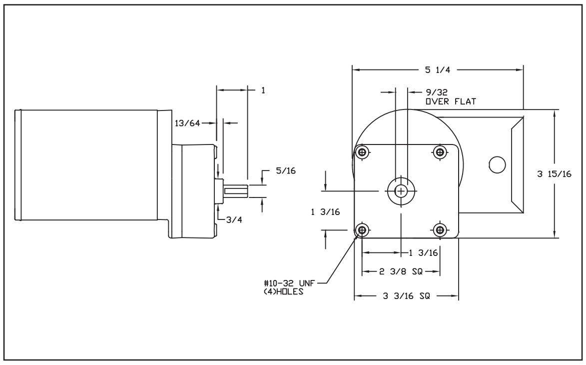
A.
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: 1st stage steel, subsequent stages steel or heat-treated powdered metal
- Bearings: Heavy-duty needle on case; ball on motor
- Mounting: all-position (optional mounting bracket 2A754)
- Rotation: reversible
- Thermal protection: none; impedance on 6Z073 to 6Z076
- Ambient: 40°C
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

B.



B.
- Enclosure: totally enclosed, nonventilated
- Gearcase: CNC machined, die-cast aluminum
- Lubrication: grease-filled
- Gears: first stage high-strength polymer and powdered metal
- Bearings: ball bearings for motor, needle for output shaft
- Mounting: all-position (optional mounting bracket 2A754)
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

C.



C.
- Enclosure: totally enclosed, nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: steel, 1st stage acetal
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
Open, 115V AC, 60/50 Hz									
A	1.2 RPM	100 in-lb	90 lb	1/80 hp	1369:1	0.3	7 ¼ in	2MDV3	**6Z073**
	2.3 RPM	100 in-lb	90 lb	1/80 hp	702:1	0.3	7 ¼ in	2MDV3	**6Z074**
	4.5 RPM	100 in-lb	90 lb	1/80 hp	361:1	0.3	7 ¼ in	2MDV3	**6Z075**
	8.8 RPM	76 in-lb	90 lb	1/80 hp	186:1	0.3	7 ¼ in	2MDV3	**6Z076**
	16 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.62	7 ⅜ in	2MDV6	**6Z077**
	32 RPM	96 in-lb	90 lb	1/20 hp	49:1	0.62	7 ⅜ in	2MDV6	**6Z078**
	63 RPM	49 in-lb	90 lb	1/20 hp	25:1	0.62	7 ⅜ in	2MDV6	**6Z079**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.62	7 ⅜ in	2MDV6	**6A195**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.62	7 ⅜ in	2MDV6	**6Z080**
Open, 230V AC, 60/50 Hz									
A	1.2 RPM	100 in-lb	90 lb	1/80 hp	1369:1	0.2	7 ⅞ in	Included	**1L532**
	2.3 RPM	100 in-lb	90 lb	1/80 hp	702:1	0.2	7 ⅞ in	Included	**1L525**
	4.5 RPM	100 in-lb	90 lb	1/80 hp	362:1	0.2	7 ⅞ in	Included	**1L522**
	8.8 RPM	76 in-lb	90 lb	1/80 hp	186:1	0.2	7 ⅞ in	Included	**1L519**
	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.3	8 ¼ in	Included	**1L526**
	32 RPM	86 in-lb	90 lb	1/20 hp	49:1	0.3	8 ¼ in	Included	**1L524**
	63 RPM	46 in-lb	90 lb	1/20 hp	25:1	0.3	8 ¼ in	Included	**1L521**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.3	8 ¼ in	Included	**1L518**
TENV, 115V AC, 60 Hz									
A	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.6	7 ⅜ in	2MDV6	**6Z081**
	33 RPM	96 in-lb	90 lb	1/20 hp	49:1	0.6	7 ⅜ in	2MDV6	**6Z082**
	63 RPM	49 in-lb	90 lb	1/20 hp	25:1	0.6	7 ⅜ in	2MDV6	**6Z083**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.6	7 ⅜ in	2MDV6	**6A197**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.6	7 ⅜ in	2MDV6	**6Z084**
	154 RPM	20 in-lb	90 lb	1/20 hp	10:1	0.6	7 ⅜ in	2MDV6	**6A196**

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
TENV, 230V AC, 60/50 Hz									
A	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.3	8 in	Included	**1L527**
	32 RPM	86 in-lb	90 lb	1/20 hp	49:1	0.3	8 in	Included	**1L523**
	63 RPM	46 in-lb	90 lb	1/20 hp	25:1	0.3	8 in	Included	**1L520**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.3	8 in	Included	**1L517**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.3	8 in	Included	**1L530**
	154 RPM	18 in-lb	90 lb	1/20 hp	10:1	0.3	8 in	Included	**1L528**
TENV, 115V AC, 60/50 Hz									
B	16 RPM	67 in-lb	50 lb	1/25 hp	106:1	0.52	6 ⅓ in	2MDV4	**453R93**
	29 RPM	50 in-lb	50 lb	1/25 hp	58.5:1	0.51	6 ⅓ in	2MDV4	**453R94**
	60 RPM	30 in-lb	50 lb	1/25 hp	28.3:1	0.52	6 ⅓ in	2MDV4	**453R95**
	105 RPM	20 in-lb	50 lb	1/25 hp	15.9:1	0.53	6 ⅓ in	2MDV4	**453R96**
	139 RPM	14 in-lb	50 lb	1/25 hp	12.1:1	0.52	6 ⅓ in	2MDV4	**453R97**
	164 RPM	12 in-lb	50 lb	1/25 hp	10.2:1	0.52	6 ⅓ in	2MDV4	**453R98**
TENV, 115/230V AC, 60/50 Hz									
C	4 RPM	50 in-lb	50 lb	1/20 hp	491:1	0.62/0.33	6 ⅛ in	Included	**1LPU6**
	7 RPM	50 in-lb	50 lb	1/20 hp	239:1	0.62/0.33	6 ⅛ in	Included	**1LPU7**
	36 RPM	50 in-lb	50 lb	1/20 hp	47:1	0.62/0.33	5 ¾ in	Included	**1LPU8**
	68 RPM	30 in-lb	50 lb	1/20 hp	26:1	0.62/0.33	5 ¾ in	Included	**1LPU9**
	96 RPM	20 in-lb	50 lb	1/20 hp	18:1	0.62/0.33	5 ¾ in	Included	**1LPV1**
	181 RPM	12 in-lb	50 lb	1/20 hp	10:1	0.62/0.33	5 ¾ in	Included	**1LPV2**

Description	For Use With	Item No.
Accessories		
L-Shaped Mounting Bracket	A and B Gearmotors	**2A754**
Conduit Box	A and B Gearmotors	**4JV45**

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

A.

B.

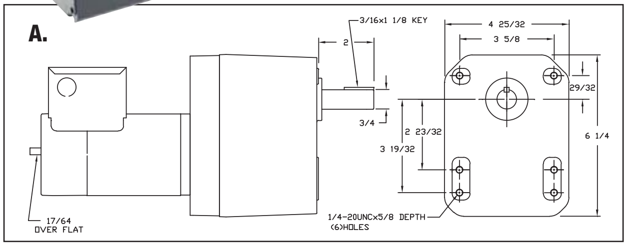
C.

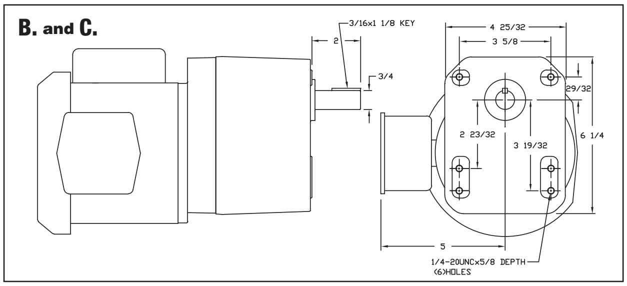
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: needle throughout with thrust ball on case and ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (**A.** and **B.** units), sold separately on Grainger.com

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
TENV									
A	1.2 RPM	710 in-lb	900 lb	1/58 hp	1427:1	0.36/0.21	9 15/16 in	**2H618**	
TEFC									
B	6 RPM	710 in-lb	900 lb	1/6 hp	276:1	2.1/1.1	11 5/8 in	**2H616**	*
	12 RPM	700 in-lb	900 lb	1/6 hp	138:1	2.1/1.1	11 5/8 in	**2H614**	*
	14 RPM	630 in-lb	900 lb	1/6 hp	116:1	2.1/1.1	11 5/8 in	**2H612**	*
C	30 RPM	660 in-lb	650 lb	1/2 hp	54:1	5.2/2.8	16 in	**2H610**	†
	58 RPM	490 in-lb	600 lb	1/2 hp	28:1	5.2/2.8	16 in	**2H608**	†
	81 RPM	345 in-lb	550 lb	1/2 hp	20:1	5.2/2.8	16 in	**2H606**	†

** Capacitor remotely mounted. † No rear-shaft extension.*





115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

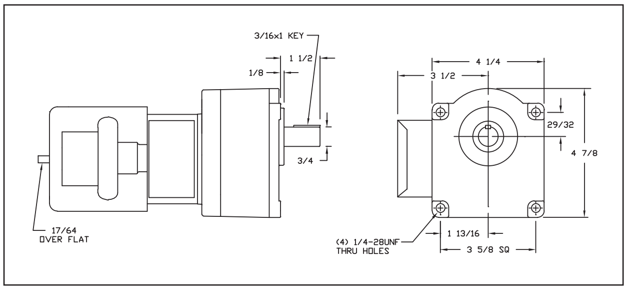
A.

B.

- Enclosure: totally enclosed fan cooled
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball and needle on case, ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Motor dia.: **A.** 4", **B.** 5.5"
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	6 RPM	500 in-lb	300 lb	1/12 hp	266:1	1.2/0.63	9 1/2 in	1	**1LPX6**
	10 RPM	500 in-lb	300 lb	1/12 hp	164:1	1.2/0.63	9 1/2 in	1	**1LPX5**
	14 RPM	340 in-lb	300 lb	1/12 hp	114:1	1.2/0.63	9 1/2 in	1	**1LPX3**
B	15 RPM	500 in-lb	400 lb	1/5 hp	108:1	2.05/1.05	10 in	2	**1LPX4**
	20 RPM	500 in-lb	400 lb	1/5 hp	80:1	2.05/1.05	10 in	2	**1LPX2**
	30 RPM	360 in-lb	400 lb	1/5 hp	54:1	2.05/1.05	10 in	2	**1LPX1**
	43 RPM	265 in-lb	400 lb	1/5 hp	38:1	2.05/1.05	10 in	2	**1LPW9**
	63 RPM	180 in-lb	400 lb	1/5 hp	26:1	2.05/1.05	10 in	2	**1LPW8**
	91 RPM	130 in-lb	400 lb	1/5 hp	18:1	2.05/1.05	10 in	2	**1LPW7**
	156 RPM	77 in-lb	400 lb	1/5 hp	10:1	2.05/1.05	10 in	2	**1LPW6**



115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

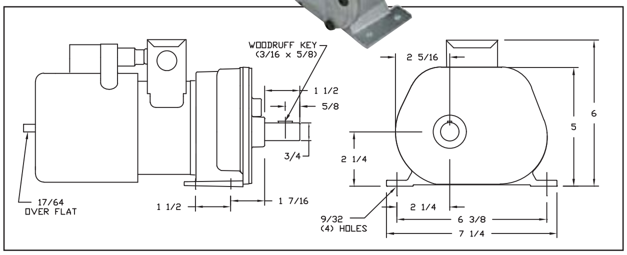
Dayton

1LPL3

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated steel/phenolic
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor included
- Brake: adaptable to 5X400 using 1 disc in brake (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	600 in-lb	250 lb	1/12 hp	267:1	1.2/0.63	9 7/8 in	**1LPL5**
12 RPM	400 in-lb	250 lb	1/12 hp	135:1	1.2/0.63	9 7/8 in	**1LPL4**
20 RPM	250 in-lb	250 lb	1/12 hp	81:1	1.2/0.63	9 7/8 in	**1LPL3**



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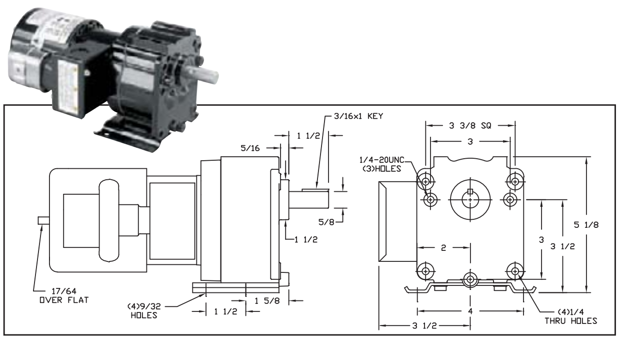

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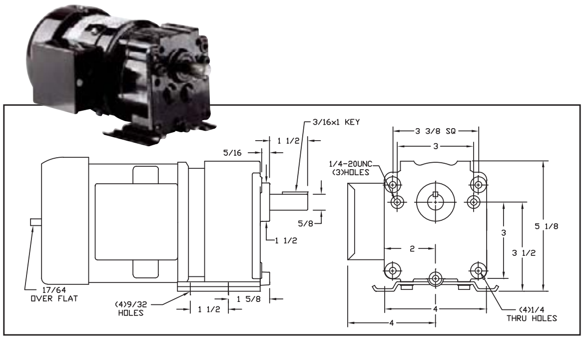


115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 using number of discs shown in table (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	15 RPM	202 in-lb	175 lb	1/15 hp	107:1	1.2/0.63	8 3/4 in	1	**4Z518**
	30 RPM	135 in-lb	175 lb	1/15 hp	53:1	1.2/0.63	8 3/4 in	1	**4Z519**
	45 RPM	92 in-lb	175 lb	1/15 hp	35:1	1.2/0.63	8 3/4 in	1	**4Z520**
	70 RPM	61 in-lb	175 lb	1/15 hp	23:1	1.2/0.63	8 3/4 in	1	**4Z521**
	97 RPM	43 in-lb	175 lb	1/15 hp	17:1	1.2/0.63	8 3/4 in	1	**4Z522**
	139 RPM	30 in-lb	175 lb	1/15 hp	12:1	1.2/0.63	8 3/4 in	1	**4Z523**
B	7.8 RPM	320 in-lb	175 lb	1/12 hp	216:1	2.0/1.0	9 9/16 in	1	**6Z816**
	16 RPM	385 in-lb	175 lb	1/6 hp	102:1	2.1/1.1	9 9/16 in	1	**6Z817**
	30 RPM	278 in-lb	175 lb	1/6 hp	58:1	2.1/1.1	9 9/16 in	2	**6Z818**
	41 RPM	210 in-lb	175 lb	1/6 hp	43:1	2.1/1.1	9 9/16 in	2	**6Z819**
	60 RPM	157 in-lb	175 lb	1/6 hp	28:1	2.1/1.1	9 9/16 in	2	**6Z820**
	93 RPM	100 in-lb	175 lb	1/6 hp	19:1	2.1/1.1	9 9/16 in	2	**6Z821**
	161 RPM	60 in-lb	175 lb	1/6 hp	11:1	2.1/1.1	9 9/16 in	2	**6Z822**

115/230VAC Permanent Split Capacitor and 230/460VAC 3-Phase Parallel-Shaft Gearmotors

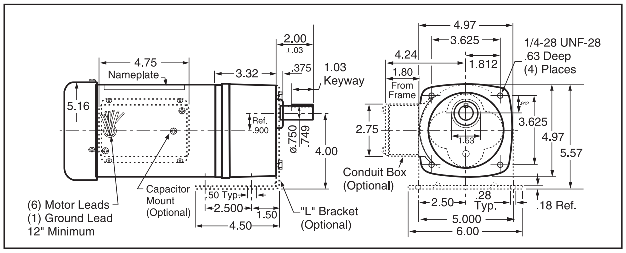
Dayton

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened, AGMA Class 9
- Bearings: motor has ball bearings; gearbox has needle bearings and thrust ball bearings throughout
- Oversized output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up (optional bracket 6XF03 for base mounting)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- 3/16" x 1" key

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

6MK74

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Permanent Split Capacitor, TENV, 115/230V AC, Capacitor Included							
5 RPM	310 in-lb	565 lb	1/12 hp	336:1	1.30/0.65	9 3/4 in	**6MK70**
9 RPM	341 in-lb	491 lb	1/12 hp	180:1	1.30/0.65	9 3/4 in	**6MK71**
14 RPM	330 in-lb	459 lb	1/12 hp	124:1	1.30/0.65	9 3/4 in	**6MK72**
19 RPM	250 in-lb	374 lb	1/12 hp	91:1	1.30/0.65	9 3/4 in	**6MK73**
Permanent Split Capacitor, TEFC, 115/230V AC, Capacitor Included							
29 RPM	270 in-lb	327 lb	1/6 hp	58:1	2.90/1.45	11 3/4 in	**6MK74**
34 RPM	250 in-lb	330 lb	1/6 hp	50:1	2.90/1.45	11 3/4 in	**6MK75**
40 RPM	180 in-lb	303 lb	1/6 hp	43:1	2.90/1.45	11 3/4 in	**6MK76**
59 RPM	135 in-lb	267 lb	1/6 hp	29:1	2.90/1.45	11 3/4 in	**6MK77**
75 RPM	90 in-lb	256 lb	1/6 hp	23:1	2.90/1.45	11 3/4 in	**6MK78**
113 RPM	68 in-lb	222 lb	1/6 hp	15:1	2.90/1.45	11 3/4 in	**6MK79**
160 RPM	45 in-lb	196 lb	1/6 hp	10:1	2.90/1.45	11 3/4 in	**6MK80**
340 RPM	25 in-lb	190 lb	1/6 hp	5:1	2.90/1.45	11 3/4 in	**6MK81**
3-Phase, TEFC, 230/460V AC, Conduit Box Included							
58 RPM	320 in-lb	300 lb	1/3 hp	30:1	1.60/0.80	11 7/8 in	**6MK82**
85 RPM	218 in-lb	300 lb	1/3 hp	20:1	1.60/0.80	11 7/8 in	**6MK83**
173 RPM	109 in-lb	300 lb	1/3 hp	10:1	1.60/0.80	11 7/8 in	**6MK84**
345 RPM	55 in-lb	300 lb	1/3 hp	5:1	1.60/0.80	11 7/8 in	**6MK85**

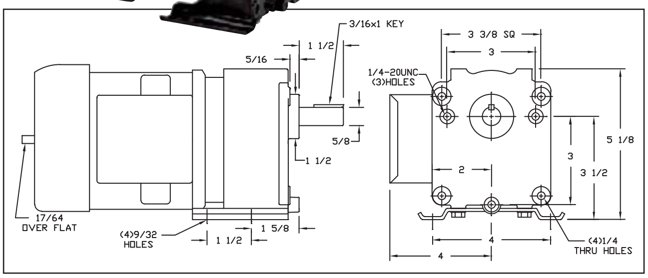


Description	Item No.
Accessories	
L-Shaped Mounting Bracket	**6XF03**
Conduit Box	**6XF01**

115VAC Split-Phase Parallel-Shaft Gearmotors

Dayton

6K331



- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 brake using number of discs shown in table (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
14 RPM	350 in-lb	175 lb	1/12 hp	127:1	1.75	9 3/8 in	1	**6K325**
27 RPM	275 in-lb	175 lb	1/6 hp	65:1	3.8	9 7/8 in	2	**6K328**
40 RPM	225 in-lb	175 lb	1/6 hp	43:1	3.8	9 7/8 in	2	**6K329**
60 RPM	150 in-lb	175 lb	1/6 hp	28:1	3.8	9 7/8 in	2	**6K331**
90 RPM	100 in-lb	175 lb	1/6 hp	19:1	3.8	9 7/8 in	2	**6K332**
135 RPM	65 in-lb	175 lb	1/6 hp	13:1	3.8	9 7/8 in	2	**6K334**

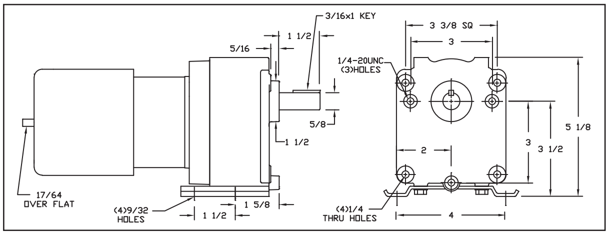
115VAC Shaded Pole and Split-Phase Parallel-Shaft Gearmotors

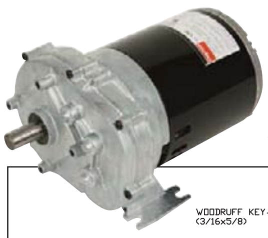
Dayton®

3M326

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft on shaded pole models; reversible on split-phase models
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400. 1 brake disk required for all units (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Shaded Pole							
4.1 RPM	200 in-lb	175 lb	1⁄40 hp	396:1	1.5	8 3⁄8 in	**3M326**
6.1 RPM	200 in-lb	175 lb	1⁄40 hp	265:1	1.5	8 3⁄8 in	**3M327**
14 RPM	200 in-lb	175 lb	1⁄20 hp	118:1	1.9	8 1⁄2 in	**3M328**
30 RPM	126 in-lb	175 lb	1⁄15 hp	53:1	2.3	8 7⁄8 in	**3M329**
70 RPM	55 in-lb	175 lb	1⁄15 hp	23:1	2.3	8 7⁄8 in	**3M330**
Split-Phase							
14 RPM	200 in-lb	175 lb	1⁄15 hp	118:1	1.5	9 7⁄8 in	**2Z817**
30 RPM	125 in-lb	175 lb	1⁄15 hp	53:1	1.5	9 7⁄8 in	**6K303**
68 RPM	55 in-lb	175 lb	1⁄15 hp	23:1	1.5	9 7⁄8 in	**2Z818**
100 RPM	38 in-lb	175 lb	1⁄15 hp	17:1	1.5	9 7⁄8 in	**2Z841**





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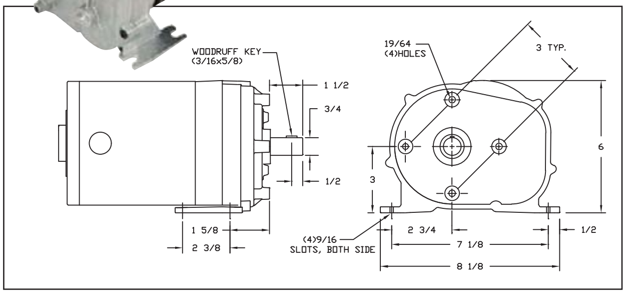
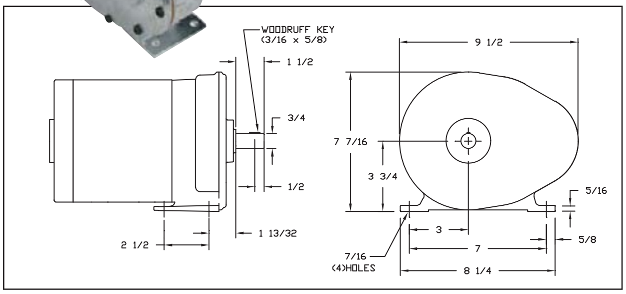




115VAC Split-Phase Parallel-Shaft Gearmotors

Dayton®

- Enclosure: open dripproof
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: cut steel and phenolic
- Bearings: **A.** porous bronze sleeve on case; ball on motor **B.** ball on case and motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

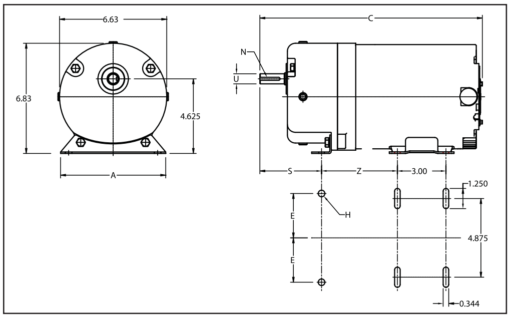
Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
A	6 RPM	600 in-lb	300 lb	1⁄4 hp	286:1	3.1	9 7⁄8 in	**1LPP7** *
	12 RPM	600 in-lb	300 lb	1⁄7 hp	144:1	3.3	9 5⁄8 in	**1LPP6** *
	18 RPM	550 in-lb	300 lb	1⁄5 hp	97:1	3.6	9 5⁄8 in	**1LPP5** *
	30 RPM	400 in-lb	190 lb	1⁄4 hp	57:1	3.9	9 5⁄8 in	**1LPP4**
	40 RPM	330 in-lb	190 lb	1⁄4 hp	43:1	4.1	9 5⁄8 in	**1LPP3**
	60 RPM	200 in-lb	190 lb	1⁄4 hp	29:1	3.9	9 5⁄8 in	**1LPP2**
	90 RPM	150 in-lb	150 lb	1⁄4 hp	19:1	4.1	9 5⁄8 in	**1LPP1**
	120 RPM	100 in-lb	110 lb	1⁄4 hp	14:1	3.9	9 5⁄8 in	**1LPN9**
B	31 RPM	800 in-lb	400 lb	1⁄2 hp	56:1	8.3	10 in	**1LPU5**
	62 RPM	400 in-lb	400 lb	1⁄2 hp	28:1	8.3	10 in	**1LPU4**
	92 RPM	287 in-lb	400 lb	1⁄2 hp	19:1	8.3	10 in	**1LPU3**

**** Output torque is gear limited.***

Dayton®

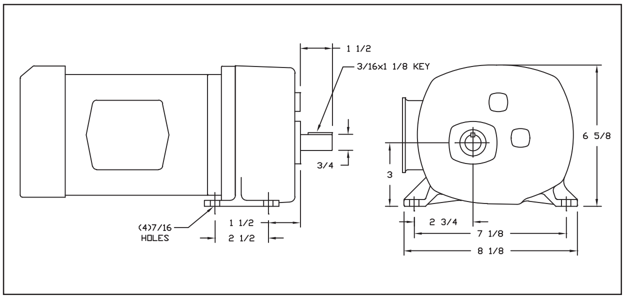
115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

4FDY9



- Enclosure: open dripproof
- Gearcase: cast-iron
- Lubrication: factory filled with AGMA4 oil
- Gears: steel
- Bearings: ball on case; ball on motor
- Mounting: horizontal
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Dimensions (in.) A	C	E	H	N	S	U	Z	Shaft Length	Item No.
Split-Phase, 115V AC															
45 RPM	438 in-lb	385 lb	1⁄3 hp	38:1	5.9	7.13	14.27	3.125	0.410	.2500 x 1.375	4.375"	1"	4.750	2.25"	**4FDY9**
89 RPM	219 in-lb	245 lb	1⁄3 hp	19:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5⁄8"	4.688	1.63"	**4FDZ1**
157 RPM	125 in-lb	245 lb	1⁄3 hp	11:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812"	5⁄8"	4.688	1.63"	**4FDZ2**
288 RPM	69 in-lb	245 lb	1⁄3 hp	6:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812 in	5⁄8 in	4.688	1.63 in	**4FDZ3**
3-Phase, 208-230/460V AC															
157 RPM	125 in-lb	245 lb	1⁄3 hp	11:1	1.4-1.3/0.7	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5⁄8"	5.125	1.63"	**4FDZ4**



Dayton

115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty ball and needle roller, and thrust balls on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: for split-phase adaptable to 4Z447; for 3-phase adaptable to 2LYV2 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
Split-Phase, 115V AC, Overhung Load 325 lb							
5.4 RPM	1,087 in-lb	¼ hp	316:1	4	12 5/16 in	**6Z399**	
8.5 RPM	974 in-lb	¼ hp	210:1	4	12 5/16 in	**6Z400**	
12 RPM	992 in-lb	¼ hp	143:1	4	12 5/16 in	**6K351**	
18 RPM	800 in-lb	¼ hp	95:1	4	12 5/16 in	**6Z401**	
18 RPM	1,017 in-lb	⅓ hp	95:1	5.5	12 5/16 in	**6Z402**	
22 RPM	1,105 in-lb	½ hp	80:1	7.8	12 ¾ in	**6Z403**	
27 RPM	500 in-lb	¼ hp	64:1	4	12 5/16 in	**6K352**	
27 RPM	700 in-lb	⅓ hp	64:1	5.5	12 5/16 in	**6K396**	
39 RPM	450 in-lb	⅓ hp	43:1	5.5	12 5/16 in	**2Z842**	
41 RPM	700 in-lb	½ hp	43:1	7.8	12 ¾ in	**6K375**	
59 RPM	240 in-lb	¼ hp	29:1	4	12 5/16 in	**6K353**	
59 RPM	320 in-lb	⅓ hp	29:1	5.5	12 5/16 in	**6K369**	
61 RPM	480 in-lb	½ hp	29:1	7.8	12 ¾ in	**6K583**	
89 RPM	220 in-lb	⅓ hp	19:1	5.5	12 5/16 in	**2Z843**	
91 RPM	320 in-lb	½ hp	19:1	7.8	12 ¾ in	**6K383**	
134 RPM	100 in-lb	¼ hp	13:1	4	12 5/16 in	**6K354**	
137 RPM	215 in-lb	½ hp	13:1	7.8	12 ¾ in	**6K506**	
153 RPM	125 in-lb	⅓ hp	11:1	5.5	12 5/16 in	**2Z844**	
276 RPM	70 in-lb	⅓ hp	6:1	5.5	12 5/16 in	**2Z845**	
3-Phase, 208-230/460V AC, Overhung Load 325 lb							
18 RPM	1,028 in-lb	⅓ hp	95:1	1.32/0.66	12 5/16 in	**6Z404**	*
21 RPM	1,017 in-lb	½ hp	80:1	1.79/0.89	12 5/16 in	**6Z405**	
27 RPM	687 in-lb	⅓ hp	64:1	1.32/0.66	12 5/16 in	**4Z384**	*
40 RPM	483 in-lb	⅓ hp	43:1	1.32/0.66	12 5/16 in	**4Z385**	*
40 RPM	737 in-lb	½ hp	43:1	1.79/0.89	12 5/16 in	**4Z390**	
59 RPM	493 in-lb	½ hp	29:1	1.79/0.89	12 5/16 in	**4Z391**	
60 RPM	322 in-lb	⅓ hp	29:1	1.32/0.66	12 5/16 in	**4Z386**	*
89 RPM	327 in-lb	½ hp	19:1	1.79/0.89	12 5/16 in	**4Z392**	
90 RPM	214 in-lb	⅓ hp	19:1	1.32/0.66	12 5/16 in	**4Z387**	*
133 RPM	219 in-lb	½ hp	13:1	1.79/0.89	12 5/16 in	**4Z393**	
155 RPM	124 in-lb	⅓ hp	11:1	1.32/0.66	12 5/16 in	**4Z388**	*
276 RPM	105 in-lb	½ hp	6:1	1.79/0.89	12 5/16 in	**4Z394**	
279 RPM	69 in-lb	⅓ hp	6:1	1.32/0.66	12 5/16 in	**4Z389**	*

** Operable on 190/380V, 50 Hz at 5/6 of 60 Hz ratings for HP and RPM.*

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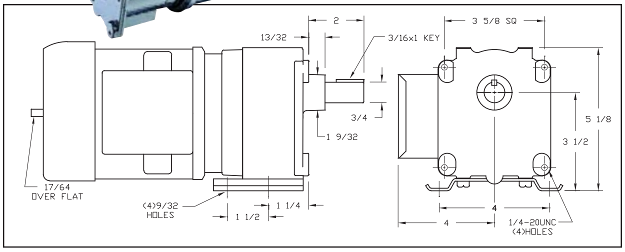

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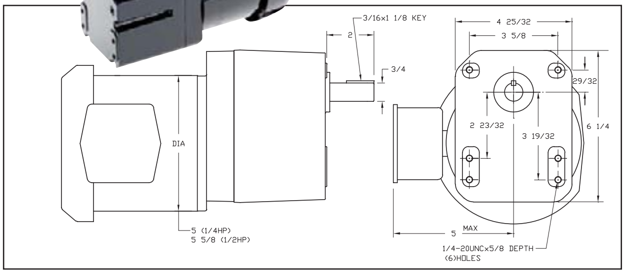

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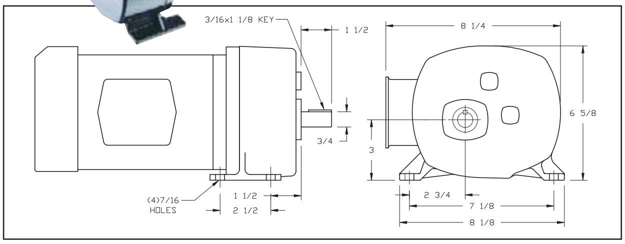


Dayton

230VAC Inverter-Duty 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Operating range: 6 to 90 Hz
- Constant torque: 6 to 60 Hz
- Constant HP: 60 to 90 Hz
- No gear-limited ratios
- Lubrication: lifetime oil sealed
- Gears: hardened steel, AGMA Class 9
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: thermostat
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
A	60 RPM	244 in-lb	257 lb	¼ hp	28:1	0.75	11 9/32 in	**4ZJ52**	*
A	90 RPM	165 in-lb	238 lb	¼ hp	19:1	0.75	11 9/32 in	**4ZJ54**	*
A	155 RPM	91.7 in-lb	206 lb	¼ hp	11:1	0.75	11 9/32 in	**4ZJ55**	*
B	19 RPM	717 in-lb	900 lb	¼ hp	90:1	0.75	10 ¾ in	**4ZJ49**	
B	24 RPM	580 in-lb	750 lb	¼ hp	70:1	0.75	10 ¾ in	**4ZJ50**	
B	63.1 RPM	440 in-lb	600 lb	½ hp	28:1	1.6	14 5/8 in	**4ZJ53**	
C	29 RPM	941 in-lb	600 lb	½ hp	59:1	1.6	13 7/8 in	**4ZJ51**	
C	282 RPM	100 in-lb	491 lb	½ hp	6:1	1.6	13 7/8 in	**4ZJ56**	

** Unit has rear shaft extension.*

230/460VAC Helical Inverter-Duty 3-Phase Inline Gearmotors

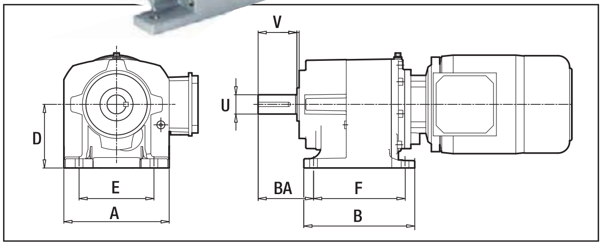
NORD DRIVESYSTEMS

- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- 60/50 Hz
- Mounting: factory-filled with oil for horizontal foot mount, other mounting positions obtainable by field modifications
- Finish: cast-aluminum

NordBloc motors have 20:1 variable torque (VT) and 5:1 constant torque (CT). Unicase 1-pc. housing is dimensionally interchangeable with SEW Eurodrive.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

5NUA2



Series	Mounting Dim. (in.) A	B	E	F	Outline Dim. (in.) BA	D	V
SK172.1	5.31	5.45	4.33	4.33	2.28	2.95	1.57
SK372.1	5.71	6.3	4.33	5.12	2.95	3.54	1.97
SK572.1/SK573.1	7.48	7.87	5.31	6.5	3.94	4.53	2.75
SK673.1	8.27	9.25	5.91	7.68	3.94	5.12	2.75
SK772.1/SK773.1	9.06	9.65	6.69	8.07	4.53	5.51	3.15
SK873.1	11.42	12.2	8.46	10.24	5.51	7.09	3.94

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Shaft Dia. (Dim. U)	Keyway Size	Length Less Shaft	Mfr. Model	Item No.
28 RPM	1,328 in-lb	1,311 lb	½ hp	60.8:1	1.90/0.95	1"	¼ in x ⅛ in x 1¼ in	15 9⁄10 in	SK372.1-71L/4, 60.83	**5NUA2**
28 RPM	3,983 in-lb	2,271 lb	1 hp	60.9:1	1.57	1 ⅜ in	5⁄16 in x 5⁄32 in x 2⅛ in	17 31⁄32 in	SK573.1-80LP/4, 60.97, 1.25	**39RK85**
28 RPM	3,983 in-lb	2,271 lb	1 hp	60.9:1	1.57	1 ⅜ in	5⁄16 in x 5⁄32 in x 2⅛ in	17 31⁄32 in	SK573.1-80LP/4, 60.97	**39RK79**
29 RPM	15,045 in-lb	3,766 lb	5 hp	61:1	6.5	2 ⅛ in	½ in x ¼ in x 2⅝ in	24 ⅛ in	SK873.1-112MP/4, 61.07	**39RL04**
31 RPM	7,523 in-lb	2,111 lb	3 hp	57.6:1	3.84	1 ⅝ in	⅜ in x 3⁄16 in x 2¼ in	20 45⁄64 in	SK773.1-100LP/4, 57.64	**39RK83**
40 RPM	1,505 in-lb	1,189 lb	1 hp	43.2:1	1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29⁄32 in	SK372.1-80LP/4, 43.26	**39RL01**
40 RPM	7,700 in-lb	1,389 lb	5 hp	43.4:1	6.5	1 ⅝ in	⅜ in x 3⁄16 in x 2¼ in	22 37⁄64 in	SK773.1-112MP/4, 43.43	**39RK98**
43 RPM	5,664 in-lb	2,241 lb	3 hp	41.5:1	3.84	1 ⅜ in	5⁄16 in x 5⁄32 in x 2⅛ in	21 17⁄32 in	SK673.1-100LP/4, 41.54	**39RK94**
44 RPM	752 in-lb	629 lb	½ hp	38.7:1	1.90/0.95	¾"	3⁄16 in x 3⁄32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 38.75	**5NUA5**
51 RPM	761 in-lb	629 lb	½ hp	34.5:1	1.90/0.95	¾ in	3⁄16 in x 3⁄32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 34.52	**5NUA9**
51 RPM	1,682 in-lb	1,224 lb	1 hp	33.8:1	1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29⁄32 in	SK372.1-80LP/4, 33.84	**39RK87**
57 RPM	3,894 in-lb	1,561 lb	3 hp	30.9:1	3.84	1 ¼ in	5⁄16 in x 5⁄32 in x 2⅛ in	20 49⁄64 in	SK573.1-100LP/4, 30.93	**39RL02**
65 RPM	7,257 in-lb	1,639 lb	5 hp	26.8:1	6.5	1 ⅝ in	⅜ in x 3⁄16 in x 2¼ in	22 37⁄64 in	SK772.1-112MP/4, 26.86	**39RK82**
71 RPM	814 in-lb	629 lb	½ hp	24.8:1	1.90/0.95	¾"	3⁄16 in x 3⁄32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 24.8	**5NUC3**
75 RPM	1,770 in-lb	1,237 lb	1 hp	23:1	3.14/1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29⁄32 in	SK372.1-80LP/4, 23	**39RK99**
90 RPM	3,540 in-lb	1,846 lb	3 hp	19.5:1	3.84	1 ¼ in	5⁄16 in x 5⁄32 in x 2⅛ in	20 49⁄64 in	SK572.1-100LP/4, 19.57, 1.25	**39RK97**
90 RPM	3,540 in-lb	1,846 lb	3 hp	19.5:1	3.84	1 ⅜ in	5⁄16 in x 5⁄32 in x 2⅛ in	20 49⁄64 in	SK572.1-100LP/4, 19.57	**39RK86**
90 RPM	3,540 in-lb	1,109 lb	5 hp	19.5:1	6.5	1 ⅜"	5⁄16 in x 5⁄32 in x 2⅛ in	22 ⅝ in	SK572.1-112MP/4, 19.57	**39RK77**
110 RPM	752 in-lb	630 lb	1 hp	15.7:1	1.57	¾ in	3⁄16 in x 3⁄32 in x 1¼ in	14 15⁄64 in	SK172.1-80LP/4, 15.76	**39RL03**
111 RPM	289 in-lb	629 lb	½ hp	15.7:1	1.90/0.95	¾"	3⁄16 in x 3⁄32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 15.76	**5NUC8**
114 RPM	3,806 in-lb	1,209 lb	5 hp	15.3:1	6.5	1 ¼ in	5⁄16 in x 5⁄32 in x 2⅛ in	22 ⅝ in	SK572.1-112MP/4, 15.38	**39RL07**
130 RPM	3,629 in-lb	1,796 lb	3 hp	13.6:1	3.84	1 ¼ in	5⁄16 in x 5⁄32 in x 2⅛ in	20 49⁄64 in	SK572.1-100LP/4, 13.67, 1.25	**39RK93**
130 RPM	3,629 in-lb	1,796 lb	3 hp	13.6:1	3.84	1 ¼ in	5⁄16 in x 5⁄32 in x 2⅛ in	20 49⁄64 in	SK572.1-100LP/4, 13.67	**39RK90**

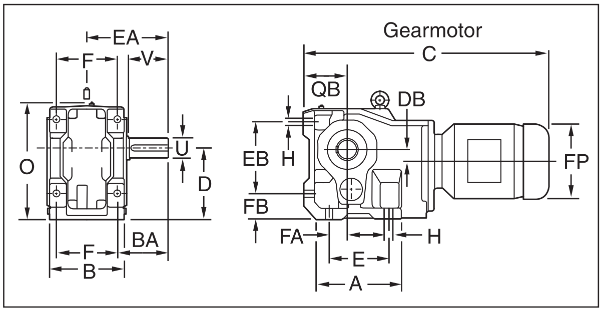
230/460VAC Helical Bevel Inverter-Duty 3-Phase Right-Angle Gearmotors

NORD DRIVESYSTEMS

- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- Mounting: factory-filled with oil for the horizontal foot mount; other mounting positions obtainable by field modification
- 60/50 Hz
- Finish: stainless steel paint, USDA H1 Compliant

20:1 variable torque and 5:1 constant torque. Dimensionally interchangeable with SEW Eurodrive. Unicase 1-piece housing.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60-Hz rating.



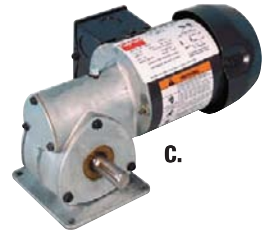
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Mfr. Model	Item No.
17 RPM	931 in-lb	1,607 lb	¼ hp	97:1	1.1/0.56	SK9012.1-63L/4-97.36-A	**5YW26**
17 RPM	1,770 in-lb	1,530 lb	½ hp	97:1	1.9/0.95	SK9012.1-71L/4-97.36-A	**5YW37**
18 RPM	3,540 in-lb	1,076 lb	1 hp	97.3:1	1.57	SK9012.1-80LP/4-97.36-A	**39RK89**
19 RPM	13,722 in-lb	2,504 lb	3 hp	95.5:1	3.84	SK9032.1-100LP/4-93.5-A	**39RK92**
23 RPM	3,540 in-lb	1,319 lb	1 hp	76.5:1	1.57	SK9012.1-80LP/4-76.53-A	**39RL05**
23 RPM	13,720 in-lb	1,694 lb	5 hp	75.9:1	6.5	SK9032.1-112MP/4-75.91-A	**39RK95**
24 RPM	13,719 in-lb	2,502 lb	3 hp	75.1:1	3.84	SK9032.1-100LP/4-75.16-A	**39RK88**
41 RPM	757 in-lb	1,616 lb	½ hp	42:1	1.9/0.95	SK9012.1-71L/4-41.65-A	**5YW35**
42 RPM	3,540 in-lb	592 lb	3 hp	41.6:1	3.84	SK9012.1-100LP/4-41.65-A	**39RK91**
42 RPM	3,540 in-lb	1,438 lb	½ hp	41.6:1	2.10	SK9012.1-90SP/4-41.65-A	**39RL06**
43 RPM	13,718 in-lb	1,949 lb	5 hp	40.3:1	6.5	SK9032.1-112MP/4-40.36-A	**39RK78**
137 RPM	117 in-lb	1,321 lb	¼ hp	12:1	1.1/0.56	SK9012.1-63L/4-12.23-A	**5YW22**
137 RPM	222 in-lb	1,296 lb	½ hp	12:1	1.9/0.95	SK9012.1-71L/4-12.23-A	**5YW33**
142 RPM	1,947 in-lb	1,629 lb	1 hp	12.2:1	1.57	SK9012.1-80LP/4-12.23-A	**39RK96**
144 RPM	1,947 in-lb	1,575 lb	3 hp	12.2:1	3.84	SK9012.1-100LP/4-12.23-A	**39RK81**
144 RPM	1,947 in-lb	1,460 lb	5 hp	12.2:1	6.5	SK9012.1-112MP/4-12.23-A	**39RK84**

Gearmotor Series	FP	SK9012.1 C	SK9032.1 C
63L	5.12	17.09	—
71L	5.71	18.66	—
80LP	6.5	19.65	—
90SP	7.2	21.26	—
100LP	7.91	22.44	25.39
112MP	8.87	23.35	26.30

5YW26

Series	Mounting Dim. (in.) A	B	E	EB	F	FA	FB	H	Outline Dim. (in.) BA	D	DB	EA	O	QB	Output Shaft Dim. (in.) U	V	Key
SK9012.1	6.77	5.51	5.12	5.12	4.72	1.38	1.46	0.43	2.95	4.41	0.39	5.32	7.64	2.8	1.25	2.36	¼ x ¼ x 2
SK9032.1	9.06	7.68	5.91	7.48	6.5	1.57	2.56	0.71	4.47	7.09	0.94	7.72	11.61	4.41	1.75	3.54	⅜ x ⅜ x 2 ¾

A. & B.



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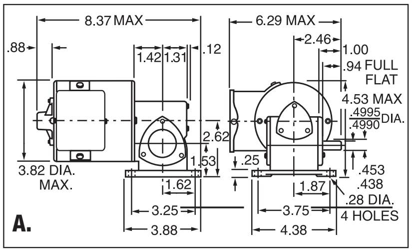
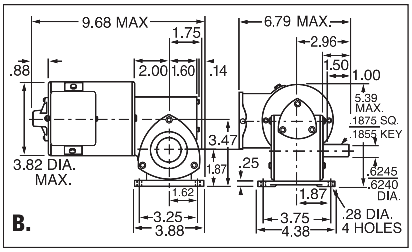
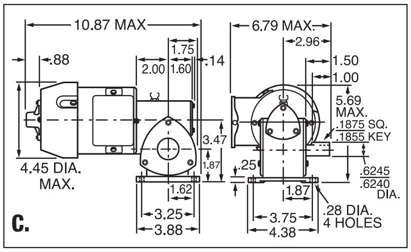






115VAC Permanent Split Capacitor Right-Angle Gearmotors

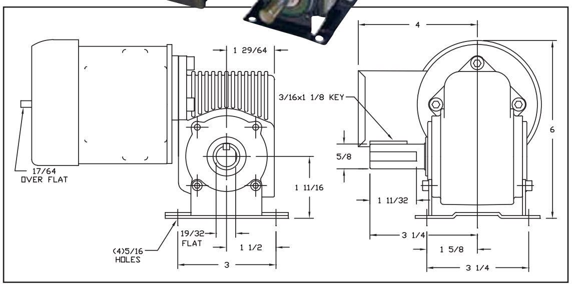
Dayton

- Gearcase: zinc alloy
- Lubrication: TENV models grease-filled; TEFC models oil-filled
- Gears: TENV models hardened-steel worm, phenolic output gear; TEFC models hardened-steel worm, forged-bronze output gear
- Bearings: ball on case and motor
- Mounting: all-position except input motor shaft up
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 using 1 disc with 1/20-HP, 2 discs with 1/12- and ⅛-HP models (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Capacitor Req.	Item No.
TENV								
A	43 RPM	21 in-lb	70 lb	1/20 hp	40:1	1	2MDV3	**1XFY2**
A	86 RPM	22 in-lb	60 lb	1/20 hp	20:1	1	2MDV3	**1XFY3**
A	173 RPM	13 in-lb	50 lb	1/20 hp	10:1	1	2MDV3	**1XFY4**
B	43 RPM	55 in-lb	110 lb	1/12 hp	40:1	1.3	2MDV5	**1XFY5**
B	86 RPM	41 in-lb	90 lb	1/12 hp	20:1	1.3	2MDV5	**1XFY6**
B	173 RPM	23 in-lb	70 lb	1/12 hp	10:1	1.3	2MDV5	**1XFY7**
TEFC								
C	29 RPM	85 in-lb	130 lb	1/8 hp	60:1	2	2MDV9	**1XFY8**
C	43 RPM	77 in-lb	110 lb	1/8 hp	40:1	2	2MDV9	**1XFY9**
C	57 RPM	68 in-lb	100 lb	1/8 hp	30:1	2	2MDV9	**1XFZ1**
C	86 RPM	55 in-lb	90 lb	1/8 hp	20:1	2	2MDV9	**1XFZ2**
C	173 RPM	31 in-lb	70 lb	1/8 hp	10:1	2	2MDV9	**1XFZ3**

3XA87



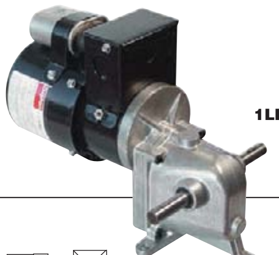
115/230VAC Permanent Split Capacitor Right-Angle Gearmotors

Dayton

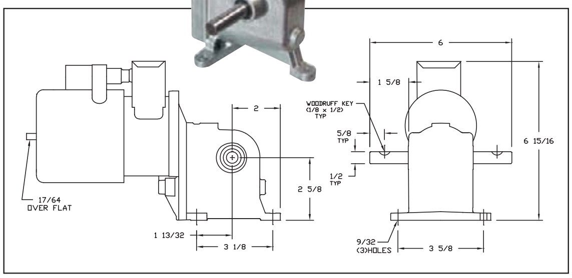
- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened steel worm, bronze output gear
- Bearings: needle bearing on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Reversible shaft output
- Rotation: reversible
- Thermal protection: none
- Dual output shafts
- Ambient: 40°C
- Capacitor: included
- Overall depth 9¾"
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM @ 60 Hz	Nameplate RPM @ 50 Hz	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
55 RPM	48	130 in-lb	200 lb	¼ hp	30:1	2.35/1.25	**3XA90**
80 RPM	71	108 in-lb	200 lb	¼ hp	20:1	2.35/1.25	**3XA89**
160 RPM	138	62 in-lb	200 lb	¼ hp	10:1	2.35/1.25	**3XA88**
330 RPM	276	15 in-lb	200 lb	¼ hp	5:1	2.35/1.25	**3XA87**



1LPZ3



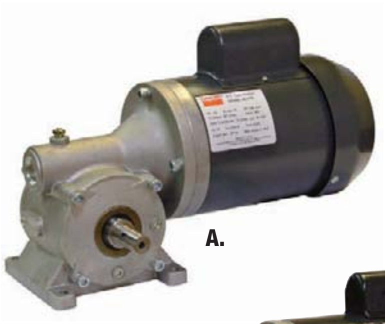
115/230VAC Dual Shaft Permanent Split Capacitor Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 using 1 disc (sold separately on Grainger.com)
- Overall depth 11⅝"
- Capacitor included

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
1.5 RPM	250 in-lb	100 lb	1/12 hp	1205:1	1.2/0.63	**1LPZ3**
3 RPM	200 in-lb	100 lb	1/12 hp	525:1	1.2/0.63	**1LPZ2**
5.6 RPM	200 in-lb	100 lb	1/12 hp	275:1	1.2/0.63	**1LPY9**
9.5 RPM	200 in-lb	100 lb	1/12 hp	161:1	1.2/0.63	**1LPZ1**
21 RPM	170 in-lb	100 lb	1/12 hp	70:1	1.2/0.63	**1LPY8**
40 RPM	89 in-lb	100 lb	1/12 hp	37:1	1.2/0.63	**1LPY5**



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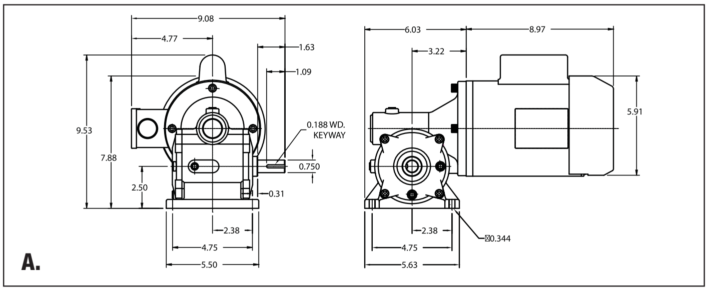

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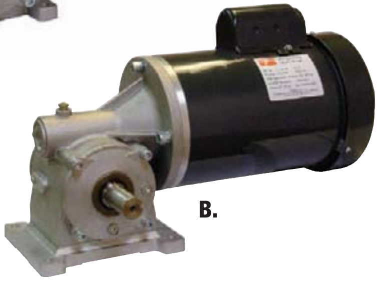

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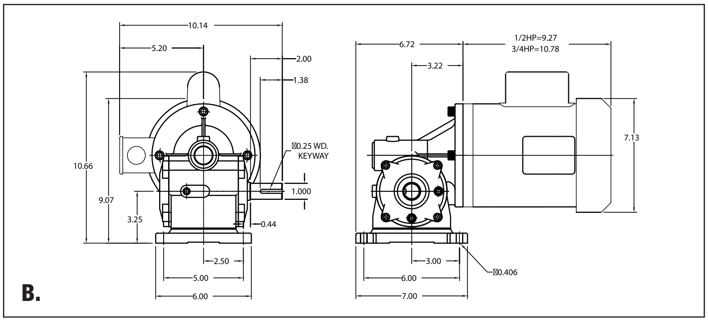

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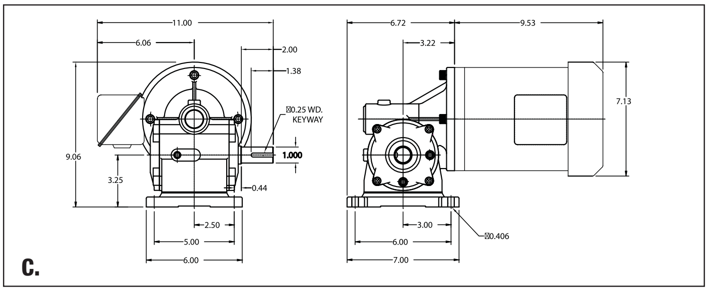

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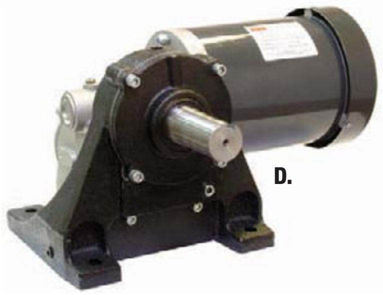

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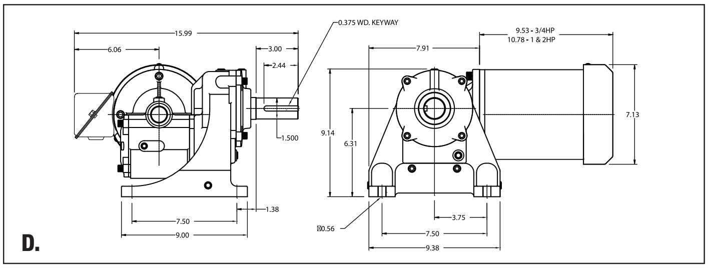


D.

Dayton®

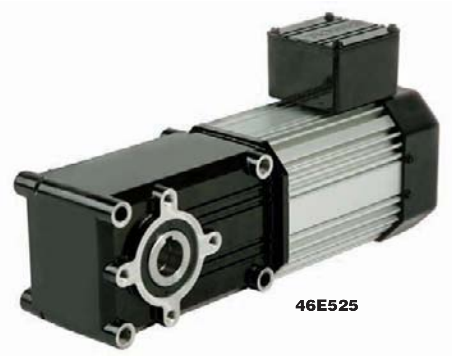
115/208-230VAC Capacitor-Start and 230/460VAC 3-Phase Right-Angle Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened-steel worm, forged-bronze output gear
- Bearings: roller bearings on case; ball on motor
- Mounting: horizontal, vertical, or at 90° angles
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
Capacitor-Start, 115/208-230V AC, 60 Hz						
Key A						
30 RPM	381 in-lb	670 lb	⅓ hp	58:1	5.6/2.8	**4CVT9**
45 RPM	299 in-lb	670 lb	⅓ hp	39:1	5.6/2.8	**4CVU1**
	456 in-lb	670 lb	½ hp	39:1	6.6/3.3	**4CVU3**
56 RPM	390 in-lb	670 lb	½ hp	31:1	6.6/3.3	**4CVT7**
100 RPM	163 in-lb	670 lb	⅓ hp	18:1	5.6/2.8	**4CUK7**
	254 in-lb	670 lb	½ hp	18:1	6.6/3.3	**4CVU5**
155 RPM	173 in-lb	670 lb	½ hp	11:1	6.6/3.3	**4CVU6**
Capacitor-Start, 115/208-230V AC, 60/50 Hz						
Key B						
30 RPM	680 in-lb	980 lb	½ hp	58:1	8.4/4.2	**4CVZ3**
45 RPM	743 in-lb	980 lb	¾ hp	39:1	11.2/5.6	**4CVZ4**
84 RPM	456 in-lb	882 lb	¾ hp	21:1	11.2/5.6	**4CVZ2**

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3-Phase, 208-230/460V AC, 60/50 Hz*						
Key C						
30 RPM	680 in-lb	980 lb	½ hp	58:1	2.0-1.9/0.95	**4CVU7**
37 RPM	855 in-lb	980 lb	¾ hp	47:1	2.7-3.0/1.5	**4CVY1**
45 RPM	507 in-lb	980 lb	½ hp	39:1	2.0-1.9/0.95	**4CVU8**
	743 in-lb	980 lb	¾ hp	39:1	2.7-3.0/1.5	**4CVY6**
	966 in-lb	980 lb	1 hp	39:1	3.4-3.4/1.7	**4CVX5**
56 RPM	633 in-lb	980 lb	¾ hp	31:1	2.7-3.0/1.5	**4CVY2**
	835 in-lb	980 lb	1 hp	31:1	3.4-3.4/1.7	**4CVY4**
68 RPM	367 in-lb	932 lb	½ hp	26:1	2.0-1.9/0.95	**4CVU9**
	537 in-lb	932 lb	¾ hp	26:1	2.7-3.0/1.5	**4CVY7**
	796 in-lb	882 lb	1 hp	26:1	3.4-3.4/1.7	**4CVX2**
84 RPM	605 in-lb	882 lb	1 hp	21:1	3.4-3.4/1.7	**4CVY5**
100 RPM	265 in-lb	831 lb	½ hp	18:1	2.0-1.9/0.95	**4CVX1**
	522 in-lb	831 lb	1 hp	18:1	3.4-3.4/1.7	**4CVX3**
155 RPM	269 in-lb	723 lb	¾ hp	11:1	2.7-3.0/1.5	**4CVY9**
	357 in-lb	723 lb	1 hp	11:1	3.4-3.4/1.7	**4CVX4**
	711 in-lb	723 lb	2 hp	11:1	6.4-6.4/3.2	**4CVX6**
Key D						
30 RPM	876 in-lb	883 lb	¾ hp	57:1	2.7-3.0/1.5	**4FDY8**
	1,168 in-lb	883 lb	1 hp	57:1	3.4-3.4/1.7	**4FDY4**
45 RPM	2,410 in-lb	894 lb	2 hp	37:1	6.4-6.3/3.2	**4FDY5**
68 RPM	1,143 in-lb	827 lb	2 hp	25:1	6.4-6.4/3.2	**4FDY6**

** Operable on 190/380V, 50 Hz, with HP and rpm at 5/6 of the 60-Hz ratings.*



46E525

115VAC and 230VAC Hypoid Hollow-Shaft Right-Angle Gearmotors

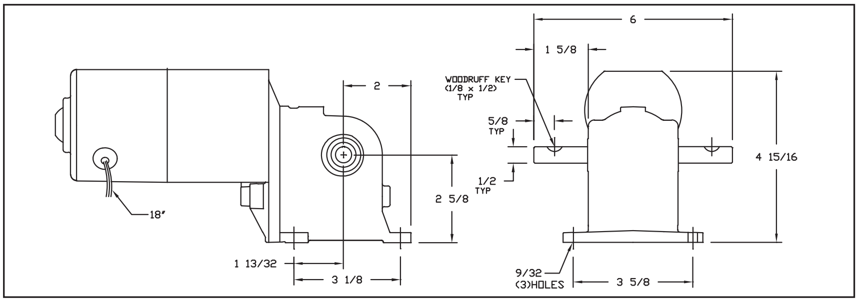
PowerSTAR BISON

- Enclosure: TEFC
- Gearcase: die-cast aluminum
- Lubrication: extreme-pressure grease
- Gears: hardened steel; 1st stage hypoid AGMA Class 10, subsequent stages are helical AGMA Class 9
- 60 Hz for 115VAC; 6-90 Hz for 230VAC
- Bearings: ball
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Max. ambient: 40°C
- IP-54 rating

PowerSTAR design delivers higher torque at improved efficiencies for packaging and light- to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low-backlash operation. Compact profile and mounting is dimensionally interchangeable with Brother F3 series and many European gearmotors. Flange version also available on Grainger.com. For PowerSTAR accessories, see page 85.

Nameplate RPM*	Max. Torque	Input HP	Gear Ratio	115VAC, 1 PHASE Full Load Amps*	Overall Length	Capacitor Req.	Mfr. Model	Item No.	230VAC, 3 PHASE, INVERTER DUTY Full Load Amps*	Overall Length	Mfr. Model	Item No.
720 Series												
7 RPM	470 in-lb	1/15 hp	240:1	1	13.12 in	24MA47	026-720A0240	46E563	0.39	13.09 in	027-720G0240	46E576
9.3 RPM	355 in-lb	1/15 hp	180:1	1	13.12 in		026-720A0180	46E562	0.39	13.09 in	027-720G0180	46E575
16.8 RPM	365 in-lb	⅛ hp	100:1	1.70	14.14 in		026-720A0100	46E559	0.63	13.09 in	027-720G0100	46E572
21 RPM	295 in-lb	⅛ hp	80:1	1.70	14.14 in		026-720A0080	46E558	0.63	13.09 in	027-720G0080	46E571
33.6 RPM	180 in-lb	⅛ hp	50:1	1.70	14.14 in		026-720A0050	46E556	0.63	13.09 in	027-720G0050	46E569
42.2 RPM	145 in-lb	⅛ hp	40:1	1.70	14.14 in	24MA48	026-720A0040	46E555	0.63	13.09 in	027-720G0040	46E568
56.2 RPM	105 in-lb	⅛ hp	30:1	1.70	14.14 in		026-720A0030	46E554	0.63	13.09 in	027-720G0030	46E567
84.3 RPM	73 in-lb	⅛ hp	20:1	1.70	14.14 in		026-720A0020	46E553	0.63	13.09 in	027-720G0020	46E566
112.4 RPM	55 in-lb	⅛ hp	15:1	1.70	14.14 in		026-720A0015	46E552	0.63	13.09 in	027-720G0015	46E565
168.6 RPM	35 in-lb	⅛ hp	10:1	1.70	14.14 in		026-720A0010	46E551	0.63	13.09 in	027-720G0010	46E564
725 Series												
9.3 RPM	680 in-lb	⅛ hp	180:1	1.86	13.62 in		026-725A0180	41C218	0.85	13.62 in	027-725G0180	41C231
11.2 RPM	570 in-lb	⅛ hp	150:1	1.86	13.62 in	41C241	026-725A0150	41C217	0.85	13.62 in	027-725G0150	41C230
14 RPM	450 in-lb	⅛ hp	120:1	1.86	13.62 in		026-725A0120	41C216	0.85	13.62 in	027-725G0120	41C229
21 RPM	480 in-lb	⅕ hp	80:1	2.6	15.37 in		026-725A0080	41C227	1.1	13.62 in	027-725G0080	41C240
28 RPM	360 in-lb	⅕ hp	60:1	2.6	15.37 in		026-725A0060	41C226	1.1	13.62 in	027-725G0060	41C239
33.6 RPM	300 in-lb	⅕ hp	50:1	2.6	15.37 in		026-725A0050	41C225	1.1	13.62 in	027-725G0050	41C238
56.2 RPM	180 in-lb	⅕ hp	30:1	2.6	15.37 in	41C242	026-725A0030	41C223	1.1	13.62 in	027-725G0030	41C236
84.3 RPM	120 in-lb	⅕ hp	20:1	2.6	15.37 in		026-725A0020	41C222	1.1	13.62 in	027-725G0020	41C235
112.4 RPM	90 in-lb	⅕ hp	15:1	2.6	15.37 in		026-725A0015	41C221	1.1	13.62 in	027-725G0015	41C234
168.6 RPM	60 in-lb	⅕ hp	10:1	2.6	15.37 in		026-725A0010	41C220	1.1	13.62 in	027-725G0010	41C233
730 Series												
11.2 RPM	1,090 in-lb	¼ hp	150:1	3.35	14.34 in		026-730A0150	46E535	1.55	14.34 in	027-730G0150	46E548
14 RPM	871 in-lb	¼ hp	120:1	3.35	14.34 in	24MA49	026-730A0120	46E534	1.55	14.34 in	027-730G0120	46E547
16.8 RPM	725 in-lb	¼ hp	100:1	3.35	14.34 in		026-730A0100	46E533	1.55	14.34 in	027-730G0100	46E546
21 RPM	766 in-lb	⅓ hp	80:1	4.84	16.09 in		026-730A0080	46E532	1.70	14.34 in	027-730G0080	46E545
33.6 RPM	479 in-lb	⅓ hp	50:1	4.84	16.09 in		026-730A0050	46E530	1.70	14.34 in	027-730G0050	46E543
42.2 RPM	382 in-lb	⅓ hp	40:1	4.84	16.09 in		026-730A0040	46E529	1.70	14.34 in	027-730G0040	46E542
56.2 RPM	286 in-lb	⅓ hp	30:1	4.84	16.09 in	24MA50	026-730A0030	46E528	1.70	14.34 in	027-730G0030	46E541
84.3 RPM	191 in-lb	⅓ hp	20:1	4.84	16.09 in		026-730A0020	46E527	1.70	14.34 in	027-730G0020	46E540
112.4 RPM	143 in-lb	⅓ hp	15:1	4.84	16.09 in		026-730A0015	46E526	1.70	14.34 in	027-730G0015	46E539
168.6 RPM	95 in-lb	⅓ hp	10:1	4.84	16.09 in		026-730A0010	46E525	1.70	14.34 in	027-730G0010	46E538

** @60 Hz.*



Right-Hand Output

Dayton

Universal 115VAC/DC Right-Angle Gearmotors

- Enclosure: vented
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: input gear steel; output gear cast iron
- Bearings: bronze sleeve on case and motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Brushes: replaceable; approx. 300-hr. life
- Ambient: 40°C
- Overall depth: 8⅞"
- Input power: 1/15 HP

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

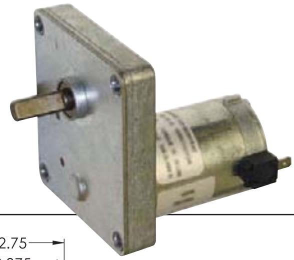
Description	Item No.
Replacement Parts	
AC/DC Input Motor, 115V, 5000 rpm	**1MDU9**
Brushes, Pkg. of 6	**1YNR3**

Nameplate RPM	Full Load Torque	Overhung Load	Gear Ratio	Full Load Amps	LEFT HAND OUTPUT Item No.*	RIGHT HAND OUTPUT Item No.	DUAL OUTPUT Item No.
4.5 RPM	250 in-lb	100 lb	1714:1	1.1 A	**1LRA6**	**1LRA7**	—
8 RPM	150 in-lb	100 lb	747:1	1.3 A	**1LRA4**	**1LRA5**	—
13 RPM	84 in-lb	100 lb	391:1	1.3 A	**1LRA2**	**1LRA3**	—
24 RPM	85 in-lb	100 lb	229:1	1.3 A	**1LPZ8**	**1LPZ9**	**1LRA1** †
55 RPM	39 in-lb	100 lb	100:1	1.3 A	**1LPZ5**	**1LPZ7**	—
90 RPM	18 in-lb	100 lb	52:1	1.3 A	**1LPZ4**	**1LPZ6**	—

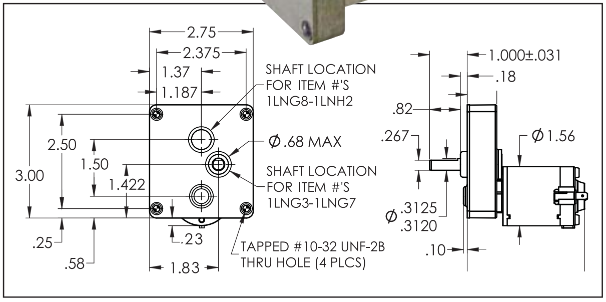
**Output shaft viewed facing lead end of motor. †Double output shaft.*

12VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

Dayton



1LNG7

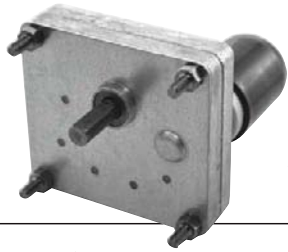


- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C

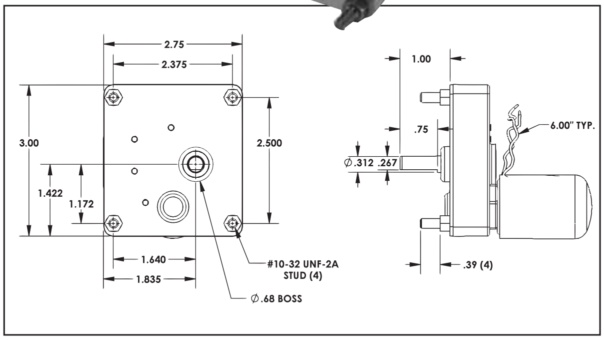
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
0.5 RPM	50 in-lb	40 lb	1/2000	2476:1	0.15 A	3 ¼ in	**1LNG3**
1.5 RPM	25 in-lb	40 lb	1/1000	931:1	0.16 A	3 ¼ in	**1LNG4**
4.5 RPM	38.1 in-lb	40 lb	1/200	530:1	0.6 A	3 ¼ in	**1LNG6**
9 RPM	35 in-lb	40 lb	1/120	492:1	1.0 A	3 ¼ in	**1LNG7**
12 RPM	40 in-lb	40 lb	1/90	254:1	1.1 A	3 ¼ in	**1LNG8**
17 RPM	16 in-lb	13 lb	1/160	254:1	0.75 A	3 in	**1LNG9**
25 RPM	16 in-lb	13 lb	1/150	172:1	1.0 A	3 ¼ in	**1LNH1**
50 RPM	10 in-lb	13 lb	1/90	74:1	1.1 A	3 ¼ in	**1LNH2**

12VDC and 24VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

Dayton



52JE46



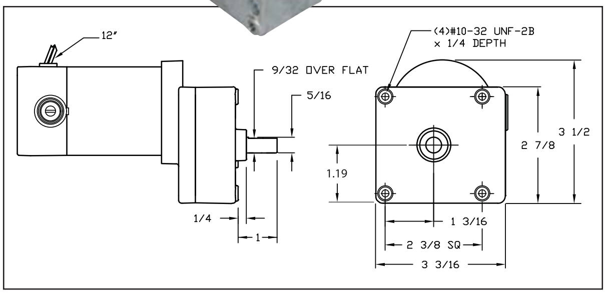
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur, power metal and steel
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12V DC							
0.5 RPM	50 in-lb	30 lb	1/2800	4672:1	0.1 A	3 in	**52JE46**
1.5 RPM	46 in-lb	30 lb	1/2800	3822:1	0.3 A	3 in	**52JE47**
3.4 RPM	44 in-lb	30 lb	1/425	1575:1	0.5 A	3 in	**52JE48**
4.5 RPM	43 in-lb	30 lb	1/325	2027:1	0.7 A	3 in	**52JE49**
8.8 RPM	41 in-lb	30 lb	1/175	938.2:1	1.0 A	3 in	**52JE50**
12 RPM	40 in-lb	30 lb	1/125	594.4:1	1.3 A	3 in	**52JE51**
17 RPM	30 in-lb	30 lb	1/125	384:1	1.4 A	3 in	**52JE52**
25 RPM	20 in-lb	30 lb	1/125	273.8:1	1.3 A	3 in	**52JE53**
50 RPM	10 in-lb	30 lb	1/125	139.8:1	1.1 A	3 in	**52JE54**
24V DC							
1.3 RPM	50 in-lb	30 lb	1/230	4672:1	0.16 A	3 in	**52JE55**
4.4 RPM	50 in-lb	30 lb	1/230	2478:1	0.35 A	3 in	**52JE56**
8 RPM	34 in-lb	30 lb	1/200	1430.8:1	0.38 A	3 in	**52JE57**
12 RPM	24 in-lb	30 lb	1/200	938.2:1	0.38 A	3 in	**52JE58**
22 RPM	50 in-lb	30 lb	1/50	300:1	1.4 A	3 39/64 in	**52JE59**
45 RPM	28 in-lb	30 lb	1/50	78.6:1	1.4 A	3 39/64 in	**52JE60**

12VDC and 90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

1LPV8

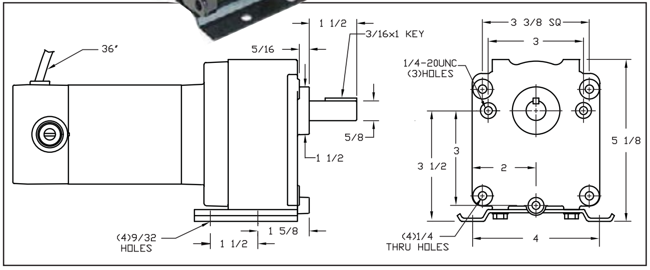


- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel and acetal
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft
- 90VDC models accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12V DC							
6 RPM	50 in-lb	50 lb	1/30	430:1	2.1 A	6 ⅛ in	**1LPV8**
9 RPM	50 in-lb	50 lb	1/30	273:1	2.1 A	6 ⅛ in	**1LPV7**
17 RPM	50 in-lb	50 lb	1/30	141:1	2.1 A	5 ⅝ in	**1LPV6**
24 RPM	40 in-lb	50 lb	1/30	100:1	2.1 A	5 ⅝ in	**1LPV5**
39 RPM	26 in-lb	50 lb	1/30	62:1	2.1 A	5 ⅝ in	**1LPV4**
76 RPM	13 in-lb	50 lb	1/30	32:1	2.1 A	5 ⅝ in	**1LPV3**
90V DC							
7 RPM	50 in-lb	50 lb	1/30	430:1	0.35 A	6 ⅛ in	**1LPV9**
11 RPM	50 in-lb	50 lb	1/30	273:1	0.35 A	6 ⅛ in	**1LPW1**
21 RPM	50 in-lb	50 lb	1/30	141:1	0.35 A	5 ⅝ in	**1LPW2**
29 RPM	40 in-lb	50 lb	1/30	100:1	0.35 A	5 ⅝ in	**1LPW3**
47 RPM	26 in-lb	50 lb	1/30	62:1	0.35 A	5 ⅝ in	**1LPW4**
93 RPM	13 in-lb	50 lb	1/30	32:1	0.35 A	5 ⅝ in	**1LPW5**
Replacement Motor Brush Sets							
12VDC							**6YHY4**
90VDC							**6YHY3**

Scan. Order. Done.
Details on page A1.

1Z820



12VDC Permanent-Magnet Parallel-Shaft Gearmotors

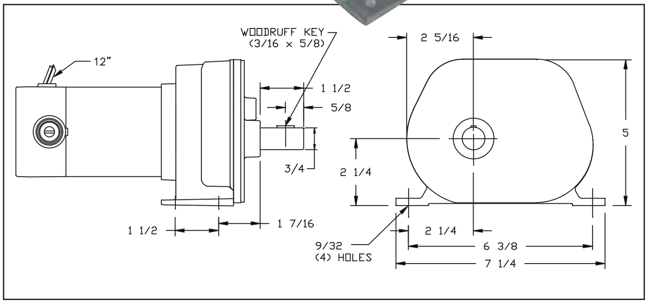
Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- Accept pulse generators 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
23 RPM	280 in-lb	150 lb	1/6	82:1	9.75 A	10 1/8 in	**1Z820** *
31 RPM	278 in-lb	150 lb	1/6	58:1	14.5 A	10 1/8 in	**1Z822**
50 RPM	183 in-lb	150 lb	1/6	36:1	14.5 A	10 1/8 in	**1Z824**
64 RPM	150 in-lb	150 lb	1/6	28:1	14.5 A	10 1/8 in	**1Z826**
94 RPM	102 in-lb	150 lb	1/6	19:1	14.5 A	10 1/8 in	**1Z831**
170 RPM	57 in-lb	150 lb	1/6	11:1	14.5 A	10 1/8 in	**1Z833**
Replacement Part							
Motor Brush Set							**6YHY5**

**** Gear limited.***

1LPK1



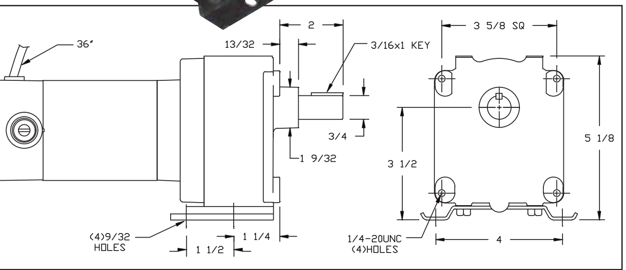
Dayton

12VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	500 in-lb	250 lb	1/15	267:1	6.2 A	8 1/2 in	**1LPK9**
12 RPM	250 in-lb	250 lb	1/15	135:1	6.2 A	8 1/2 in	**1LPK7**
20 RPM	150 in-lb	250 lb	1/15	81:1	6.2 A	8 1/2 in	**1LPK4**
42 RPM	75 in-lb	250 lb	1/15	38:1	6.2 A	8 1/2 in	**1LPK3**
58 RPM	75 in-lb	250 lb	1/10	55:1	9.0 A	8 1/2 in	**1LPK2**
84 RPM	50 in-lb	250 lb	1/10	38:1	9.0 A	8 1/2 in	**1LPK1**
Replacement Part							
Motor Brush Set							**6YHY5**

4ZJ45

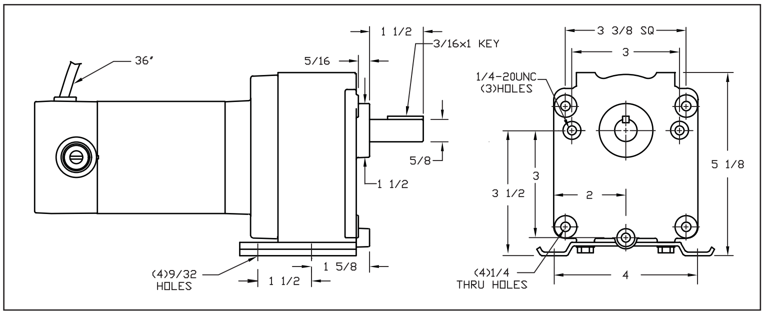


Dayton

24VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle with thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shafts
- Gear limited
- Accept pulse generators 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
8.3 RPM	310 in-lb	695 lb	1/8	216:1	2.5 A	10 3/8 in	**4ZJ45**
20 RPM	254 in-lb	500 lb	1/8	88:1	4.5 A	10 3/8 in	**4ZJ46**
30 RPM	254 in-lb	291 lb	1/8	60:1	5.45 A	10 3/8 in	**1L848**
64 RPM	113 in-lb	291 lb	1/8	28:1	5.45 A	10 3/8 in	**4ZJ47**
120 RPM	60 in-lb	250 lb	1/8	15:1	5.45 A	10 3/8 in	**4ZJ48**
Replacement Part							
Motor Brush Set							**6YHY5**



90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

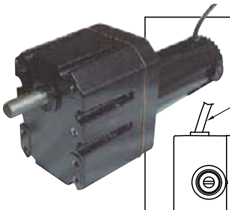
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- 1/20- and 1/8-HP units accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

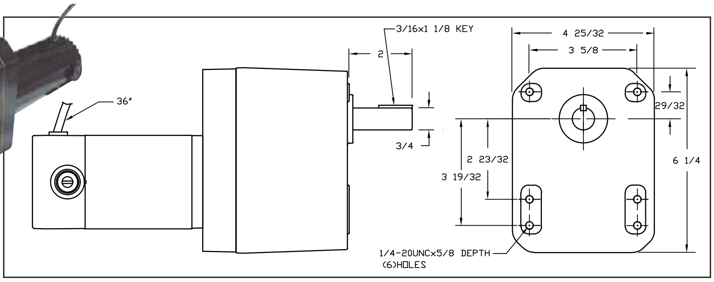
Nameplate RPM	Max. Torque	Overhung Load	Gear Ratio	Full Load Amps	Length Less Shaft	Replacement Brushes	Item No.	
1/20 Input HP								
5.4 RPM	227 in-lb	150 lb	336:1	0.4 A	8 5/8 in	6YHY3	**6A193**	*
8.7 RPM	250 in-lb	150 lb	208:1	0.53 A	8 5/8 in	6YHY3	**6A194**	*
18 RPM	150 in-lb	150 lb	101:1	0.62 A	8 5/8 in	6YHY3	**4Z134**	
34 RPM	82 in-lb	150 lb	53:1	0.62 A	8 5/8 in	6YHY3	**4Z133**	
51 RPM	55 in-lb	150 lb	35:1	0.62 A	8 5/8 in	6YHY3	**4Z132**	
109 RPM	27 in-lb	150 lb	17:1	0.62 A	8 5/8 in	6YHY3	**4Z131**	
1/8 Input HP								
22 RPM	280 in-lb	150 lb	82:1	1.41 A	10 1/8 in	6YHY6	**4Z130**	*
31 RPM	220 in-lb	150 lb	58:1	1.41 A	10 1/8 in	6YHY6	**4Z383**	
50 RPM	138 in-lb	150 lb	36:1	1.41 A	10 1/8 in	6YHY6	**4Z129**	
64 RPM	113 in-lb	150 lb	28:1	1.41 A	10 1/8 in	6YHY6	**4Z382**	
94 RPM	77 in-lb	150 lb	19:1	1.41 A	10 1/8 in	6YHY6	**4Z381**	
170 RPM	43 in-lb	150 lb	11:1	1.41 A	10 1/8 in	6YHY6	**4Z128**	
1/4 Input HP								
42 RPM	280 in-lb	215 lb	43:1	2.3 A	12 1/8 in	6YHZ0	**2H579**	
62 RPM	235 in-lb	235 lb	29:1	2.51 A	12 1/8 in	6YHZ0	**2H577**	
90 RPM	160 in-lb	200 lb	19:1	2.51 A	12 1/8 in	6YHZ0	**2H575**	
165 RPM	90 in-lb	200 lb	11:1	2.51 A	12 1/8 in	6YHZ0	**2H573**	
350 RPM	40 in-lb	170 lb	5:1	2.51 A	12 1/8 in	6YHZ0	**2H571**	

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton





- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needles throughout with thrust balls on case, ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Optional mounting bracket 2H630 is sold separately on Grainger.com
- Seals: spring-loaded lip-type on input and output shafts
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

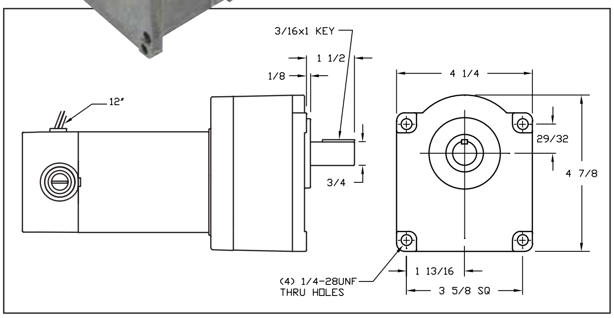
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.		REPLACEMENT MOTOR BRUSH SETS Item No.
1.3 RPM	710 in-lb	900 lb	1/20	1413:1	0.36 A	9 7/8 in	**2H594**		**6YHY3**
6.5 RPM	710 in-lb	900 lb	1/6	276:1	1.0 A	12 1/2 in	**2H592**	*	**6YHY6**
13 RPM	660 in-lb	900 lb	1/6	138:1	1.7 A	12 1/2 in	**2H590**		**6YHY6**
15 RPM	570 in-lb	900 lb	1/6	116:1	1.7 A	12 1/2 in	**2H588**		**6YHY6**

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel
- Bearings: ball and needle on case; ball on motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)



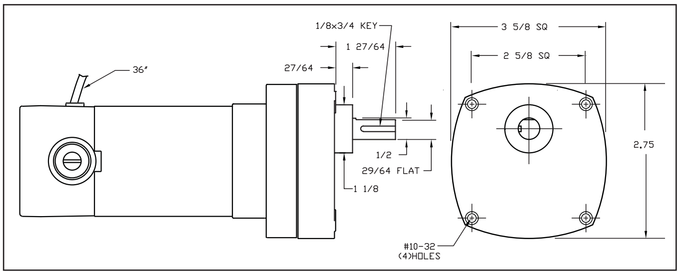
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	500 in-lb	300 lb	1/11	264:1	1.1 A	8 7/8 in	**1LPY4**
12 RPM	350 in-lb	300 lb	1/10	131:1	1.1 A	8 7/8 in	**1LPY3**
29 RPM	156 in-lb	300 lb	1/10	55:1	1.1 A	8 7/8 in	**1LPY2**
42 RPM	105 in-lb	300 lb	1/10	37:1	1.1 A	8 7/8 in	**1LPY1**
61 RPM	78 in-lb	300 lb	1/10	26:1	1.1 A	8 7/8 in	**1LPX9**
152 RPM	30 in-lb	300 lb	1/10	10:1	1.1 A	8 7/8 in	**1LPX8**
Replacement Motor Brush Set							
Motor Brush Set							**6YHY6**

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton®

6Z913

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: 1st stage steel, helical; subsequent stages steel or heat-treated powdered metal spur
- Bearings: needle on case output shaft; ball on motor
- Mounting: all-position; for optional base mounting bracket 2A754, available on Grainger.com®
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shaft
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)



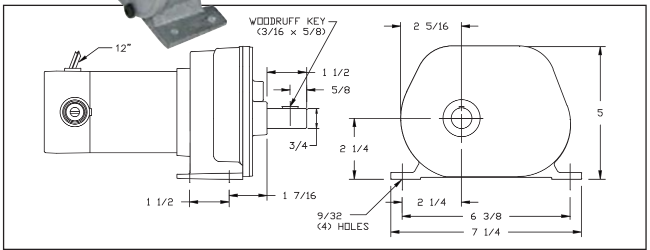
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	Replacement Motor Brush Sets Item No.
2.6 RPM	100 in-lb	90 lb	1/40	702:1	0.36 A	7 3/8 in	6Z910	6YHY3
5 RPM	100 in-lb	90 lb	1/40	362:1	0.36 A	7 3/8 in	6Z911	6YHY3
	160 in-lb	115 lb	1/20	362:1	0.26 A	8 in	2H569 *	6YHY3
9.6 RPM	100 in-lb	90 lb	1/40	186:1	0.36 A	7 3/8 in	6Z912	6YHY3
19 RPM	150 in-lb	150 lb	1/20	96:1	0.58 A	7 3/8 in	2H567 *	6YHY3
20 RPM	100 in-lb	90 lb	1/20	96:1	0.62 A	7 1/2 in	6Z913	6YHY3
37 RPM	74 in-lb	90 lb	1/20	49:1	0.62 A	7 1/2 in	6Z914	6YHY3
	150 in-lb	130 lb	1/10	49:1	1.08 A	8 3/4 in	2H565	6YHY6
71 RPM	40 in-lb	90 lb	1/20	25:1	0.62 A	7 1/2 in	6Z915	6YHY3
	83 in-lb	230 lb	1/10	25:1	1.08 A	8 3/4 in	2H563	6YHY6
139 RPM	20 in-lb	90 lb	1/20	13:1	0.62 A	7 1/2 in	6Z916	6YHY3
	42 in-lb	220 lb	1/10	13:1	1.08 A	8 3/4 in	2H561	6YHY6

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton®

1LPL1



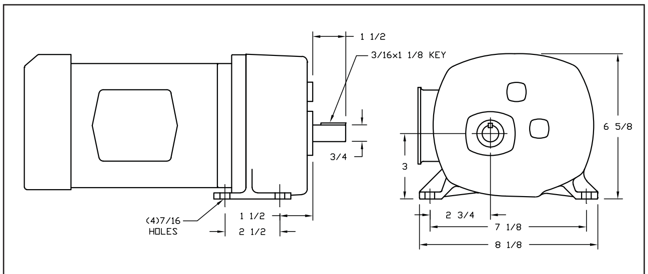
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6.5 RPM	500 in-lb	250 lb	1/15	267:1	0.84 A	8 1/2 in	1LPL1
13 RPM	250 in-lb	250 lb	1/15	135:1	0.84 A	8 1/2 in	1LPK8
21 RPM	150 in-lb	250 lb	1/15	81:1	0.84 A	8 1/2 in	1LPK5
46 RPM	75 in-lb	250 lb	1/15	38:1	0.84 A	8 1/2 in	1LPK6
Replacement Motor Brush Set							
Motor Brush Set							6YHY6

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton®

6Z406



- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel; 1st stage helical, subsequent stages spur
- Bearings: heavy-duty ball and thrust balls on case, ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts

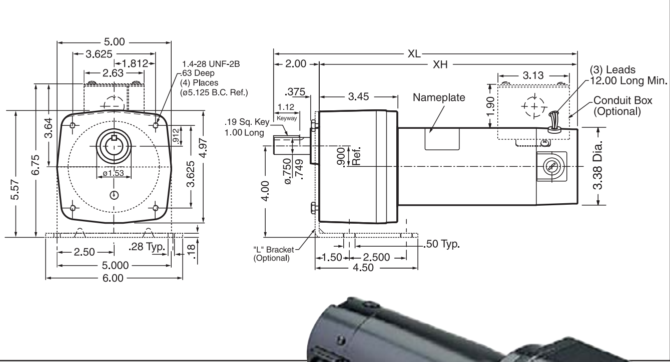
Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV							
9 RPM	1,087 in-lb	325 lb	1/4	196:1	2.0 A	11 3/4 in	6Z406
14 RPM	960 in-lb	325 lb	1/4	131:1	2.6 A	11 3/4 in	6Z407
20 RPM	727 in-lb	325 lb	1/4	87:1	2.7 A	11 3/4 in	6Z408
43 RPM	353 in-lb	325 lb	1/4	41:1	2.7 A	11 3/4 in	6Z409
63 RPM	238 in-lb	325 lb	1/4	28:1	2.7 A	11 3/4 in	6Z410
91 RPM	152 in-lb	325 lb	1/4	19:1	2.7 A	11 3/4 in	6Z411
148 RPM	101 in-lb	325 lb	1/4	12:1	2.7 A	11 3/4 in	6Z412
TEFC							
20 RPM	1,112 in-lb	325 lb	1/2	87:1	4.2 A	14 in	6Z413
34 RPM	822 in-lb	325 lb	1/2	50:1	5.0 A	14 in	6Z414
40 RPM	664 in-lb	325 lb	1/2	41:1	5.0 A	14 in	6Z415
60 RPM	464 in-lb	325 lb	1/2	28:1	5.0 A	14 in	6Z416
90 RPM	305 in-lb	325 lb	1/2	19:1	5.0 A	14 in	6Z417
144 RPM	202 in-lb	325 lb	1/2	12:1	5.0 A	14 in	6Z418

Description	For Use With	Item No.
Replacement Parts		
Motor Brush Set	6Z406, 6Z407, 6Z408, 6Z409, 6Z410, 6Z411, 6Z412, 6Z413B, 6Z414B, 6Z415B, 6Z416B, 6Z417B, 6Z418B	6YHY9
Motor Brush and Spring Set	6Z406A,6Z407A,6Z408A,6Z409A, 6Z410A,6Z411A 6Z412A,6Z413,6Z414,6Z415,6Z416,6Z417,6Z418, 6Z413A,6Z414A,6Z415A,6Z416A,6Z417A,6Z418A	11N180

90 and 180VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball on motor, needle on gearbox, thrust balls throughout; oversize output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up; for base mount, use optional mounting bracket 6XF03
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded, heavy-duty industrial



6ML51

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Dim. XL	Dim. XH	90V DC Full Load Amps	90V DC Item No.	180V DC Full Load Amps	180V DC Item No.
7 RPM	330 in-lb	565 lb	⅛	336:1	11.31"	9.31"	0.7 A	**6ML63**	0.35 A	**6ML64**
14 RPM	341 in-lb	465 lb	⅛	180:1	11.31"	9.31"	1.0 A	**6ML65**	0.5 A	**6ML66**
21 RPM	371 in-lb	413 lb	¼	124:1	13.31"	11.31"	1.1 A	**6ML67**	0.55 A	**6ML68**
27 RPM	305 in-lb	374 lb	¼	91:1	13.31"	11.31"	1.5 A	**6ML69**	0.75 A	**6ML70**
42 RPM	280 in-lb	327 lb	¼	58:1	13.31"	11.31"	2.3 A	**6ML71**	1.2 A	**6ML72**
50 RPM	250 in-lb	315 lb	¼	50:1	13.31"	11.31"	2.3 A	**6ML73**	1.2 A	**6ML74**
62 RPM	220 in-lb	303 lb	¼	43:1	13.31"	11.31"	2.3 A	**6ML51**	1.2 A	**6ML52**
83 RPM	155 in-lb	267 lb	¼	29:1	13.31"	11.31"	2.3 A	**6ML53**	1.2 A	**6ML54**
125 RPM	100 in-lb	256 lb	¼	23:1	13.31"	11.31"	2.0 A	**6ML55**	1.0 A	**6ML56**
165 RPM	70 in-lb	232 lb	¼	15:1	13.31"	11.31"	2.0 A	**6ML57**	1.0 A	**6ML58**
250 RPM	45 in-lb	201 lb	¼	10:1	13.31"	11.31"	2.0 A	**6ML59**	1.0 A	**6ML60**
500 RPM	25 in-lb	194 lb	¼	5:1	13.31"	11.31"	2.0 A	**6ML61**	1.0 A	**6ML62**

Description	Item No.
Accessories	
L-Shaped Mounting Bracket	**6XF03**
Conduit Box	**6XF02**

Motor-Mounted Speed Control

Dayton

- IP30 enclosure
- 4A max.
- Operating temp: 104°F (40°C)
- Accepts tach feedback

For 90VDC permanent magnet motors and gearmotors up to 1/6 HP. SCR controller direct-mounts to motor endbell. Features adjustable current/torque limit and maximum and minimum speed pots. Easy assembly.

Voltage Output	HP	AC Input Voltage	Speed Range	Speed Regulation	Item No.
0 to 90V DC	1/35 to ⅙	120V AC	15:1	10 to 30%	**2PUX3**

Units Compatible with No. 2PUX3			
1LPK5	1LRA8	2H594	4Z381
1LPK6	1LRA9	3XA77	4Z382
1LPK8	1LRB1	3XA78	4Z383
1LPL1	1LRB2	3XA79	4Z528
1LPV9	1LRB3	3XA80	6A193
1LPW1	1LRB4	3XA81	6A194
1LPW2	1Z854	3XA82	6Z910
1LPW3	1Z856	4Z128	6Z911
1LPW4	2H561	4Z129	6Z912
1LPW5	2H563	4Z130	6Z913
1LPX8	2H565	4Z131	6Z914
1LPX9	2H567	4Z132	6Z915
1LPY1	2H569	4Z133	6Z916
1LPY2	2H588	4Z134	—
1LPW3	2H590	4Z140	—
1LPY4	2H592	4Z141	—

2PUX3

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Overall Length	Mfr. Model	Item No.
720 Series, For Shaft Dia. 3/4"								
8 RPM	442 in-lb	725 lb	1/15	240:1	1.0 A	11 29/32 in	021-720D0240	**35TV25**
10 RPM	332 in-lb	670 lb	1/15	180:1	1.0 A	11 29/32 in	021-720D0180	**35TV24**
12 RPM	277 in-lb	635 lb	1/15	150:1	1.0 A	11 29/32 in	021-720D0150	**35TV23**
15 RPM	415 in-lb	550 lb	⅛	120:1	1.45 A	13 37/64 in	021-720D0120	**35TV22**
18 RPM	346 in-lb	525 lb	⅛	100:1	1.45 A	13 37/64 in	021-720D0100	**35TV21**
22 RPM	277 in-lb	490 lb	⅛	80:1	1.45 A	13 37/64 in	021-720D0080	**35TV20**
30 RPM	208 in-lb	455 lb	⅛	60:1	1.45 A	13 37/64 in	021-720D0060	**35TV19**
35 RPM	173 in-lb	430 lb	⅛	50:1	1.45 A	13 37/64 in	021-720D0050	**35TV18**
44 RPM	139 in-lb	400 lb	⅛	40:1	1.45 A	13 37/64 in	021-720D0040	**35TV17**
59 RPM	104 in-lb	370 lb	⅛	30:1	1.45 A	13 37/64 in	021-720D0030	**35TV16**
89 RPM	70 in-lb	330 lb	⅛	20:1	1.45 A	13 37/64 in	021-720D0020	**35TV15**
118 RPM	52 in-lb	305 lb	⅛	15:1	1.45 A	13 37/64 in	021-720D0015	**35TV14**
177 RPM	35 in-lb	270 lb	⅛	10:1	1.45 A	13 37/64 in	021-720D0010	**35TV13**
725 Series, For Shaft Dia. 1"								
10 RPM	623 in-lb	870 lb	⅛	180:1	1.6 A	15 21/64 in	021-725D0180	**35TV83**
12 RPM	519 in-lb	820 lb	⅛	150:1	1.45 A	15 21/64 in	021-725D0150	**35TV82**
15 RPM	415 in-lb	780 lb	⅛	120:1	1.45 A	15 21/64 in	021-725D0120	**35TV81**
18 RPM	346 in-lb	740 lb	⅛	100:1	1.45 A	15 21/64 in	021-725D0100	**35TV80**
22 RPM	443 in-lb	620 lb	⅕	80:1	2.24 A	14 1/64 in	021-725D0080	**35TV79**
29 RPM	332 in-lb	580 lb	⅕	60:1	2.24 A	14 1/64 in	021-725D0060	**35TV78**
35 RPM	277 in-lb	550 lb	⅕	50:1	2.24 A	14 1/64 in	021-725D0050	**35TV77**
43 RPM	222 in-lb	510 lb	⅕	40:1	2.24 A	14 1/64 in	021-725D0040	**35TV76**
58 RPM	166 in-lb	475 lb	⅕	30:1	2.24 A	14 1/64 in	021-725D0030	**35TV75**
86 RPM	111 in-lb	430 lb	⅕	20:1	2.24 A	14 1/64 in	021-725D0020	**35TV74**
115 RPM	83 in-lb	400 lb	⅕	15:1	2.24 A	14 1/64 in	021-725D0015	**35TV73**
173 RPM	55 in-lb	355 lb	⅕	10:1	2.24 A	14 1/64 in	021-725D0010	**35TV72**
730 Series, For Shaft Dia. 1-1/4"								
8 RPM	1,638 in-lb	1,120 lb	¼	240:1	3.0 A	16 13/32 in	021-730D0240	**35TW37**
11 RPM	1,228 in-lb	1,050 lb	¼	180:1	3.0 A	16 13/32 in	021-730D0180	**35TW36**
13 RPM	1,024 in-lb	1,010 lb	¼	150:1	3.0 A	16 13/32 in	021-730D0150	**35TW35**
16 RPM	819 in-lb	965 lb	¼	120:1	3.0 A	16 49/64 in	021-730D0120	**35TW34**
20 RPM	682 in-lb	910 lb	¼	100:1	3.0 A	16 13/32 in	021-730D0100	**35TW33**
25 RPM	546 in-lb	820 lb	⅓	80:1	3.0 A	16 13/32 in	021-730D0080	**35TW32**
33 RPM	409 in-lb	760 lb	⅓	60:1	3.0 A	16 13/32 in	021-730D0060	**35TW31**
39 RPM	341 in-lb	720 lb	⅓	50:1	3.0 A	16 13/32 in	021-730D0050	**35TW30**
49 RPM	273 in-lb	675 lb	⅓	40:1	3.0 A	16 13/32 in	021-730D0040	**35TW29**
65 RPM	205 in-lb	625 lb	⅓	30:1	3.0 A	16 13/32 in	021-730D0030	**35TW28**
98 RPM	136 in-lb	565 lb	⅓	20:1	3.0 A	16 13/32 in	021-730D0020	**35TW27**
131 RPM	102 in-lb	520 lb	⅓	15:1	3.0 A	16 13/32 in	021-730D0015	**35TW26**
196 RPM	68 in-lb	465 lb	⅓	10:1	3.0 A	16 13/32 in	021-730D0010	**35TW25**

35TV25

BISON PowerSTAR

90VDC Hypoid Hollow-Shaft Right-Angle Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: extreme pressure grease
- Gears: hardened steel hypoid
- Bearings: ball
- Mounting: all position
- Rotation: reversible
- Brushes: externally replaceable
- Max. ambient: 40°C

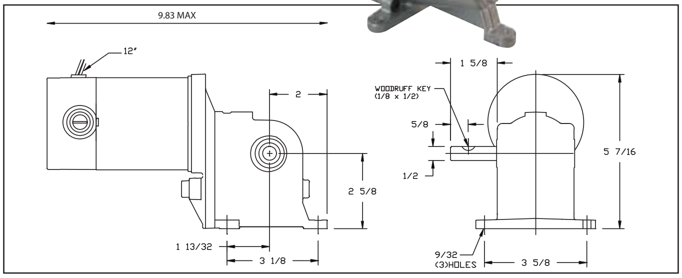
PowerSTAR compact design delivers higher torque at improved efficiencies for packaging and light-to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low backlash operation. 12 and 24VDC gearmotors are available on Grainger.com.

Description	720 Series Mfr. Model	720 Series Item No.	725 Series Mfr. Model	725 Series Item No.	730 Series Mfr. Model	730 Series Item No.
Accessories						
Output Shaft Cover	P171-720-1000W	**24MA51**	P171-725-1020W	**24MA52**	P171-730-1000W	**24MA53**
Mounting Plate	P125-720-1000W	**24MA54**	P125-725-1000W	**24MA55**	P125-730-1000W	**24MA56**
Torque Arm	P125-720-1030W	**24MA57**	P125-725-1030W	**24MA58**	P125-730-1030W	**24MA59**
Output Shaft Insert	P108-720-5000W	**24MA60**	P108-725-5000W	**24MA61**	P108-730-5000W	**24MA62**

90VDC Permanent-Magnet Right-Angle Gearmotors

Dayton

1LRA8



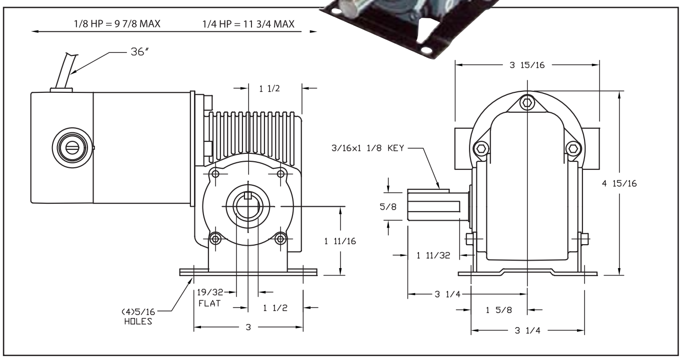
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease packed
- Gears: input gear steel; worm hardened steel; output gear cast iron
- Bearings: bronze sleeve on case, ball on motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on output shaft
- Gear limited
- Units are compatible with speed control 2PUX3 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3 RPM	250 in-lb	100 lb	1/20	525:1	0.59 A	**1LRA8**
6 RPM	177 in-lb	100 lb	1/20	275:1	0.59 A	**1LRA9**
10 RPM	228 in-lb	100 lb	1/20	161:1	0.59 A	**1LRB1**
24 RPM	102 in-lb	100 lb	1/20	70:1	0.59 A	**1LRB2**
45 RPM	56 in-lb	100 lb	1/20	37:1	0.59 A	**1LRB4**
90 RPM	34 in-lb	100 lb	1/10	37:1	1.14 A	**1LRB3**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**

90VDC Permanent-Magnet Hollow-Shaft Right-Angle Gearmotors

Dayton

3XA77

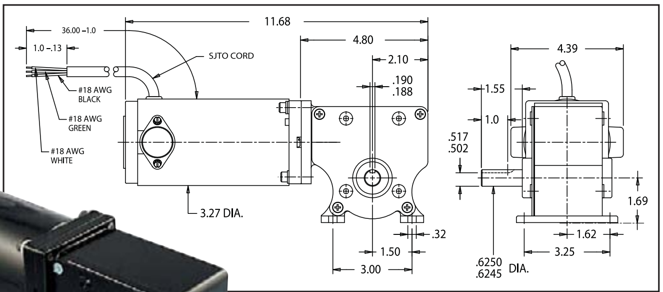


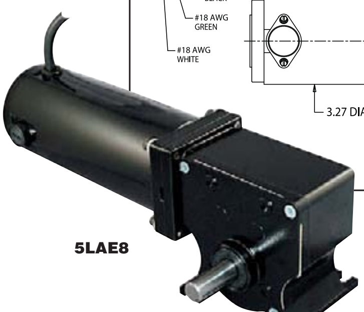
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: worm-hardened steel, output gear bronze alloy
- Bearings: ball on output and motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Reversible shaft output
- Seals: lip-type on input and output shafts
- ⅛-HP units accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
30 RPM	94 in-lb	175 lb	⅛	60:1	1.28 A	**3XA82**
40 RPM	82 in-lb	175 lb	⅛	45:1	1.28 A	**3XA81**
60 RPM	60 in-lb	175 lb	⅛	30:1	1.28 A	**3XA80**
	120 in-lb	175 lb	¼	30:1	2.33 A	**3XA86**
90 RPM	49 in-lb	175 lb	⅛	20:1	1.28 A	**3XA79**
	100 in-lb	175 lb	¼	20:1	2.33 A	**3XA85**
180 RPM	27 in-lb	175 lb	⅛	10:1	1.28 A	**3XA78**
	55 in-lb	175 lb	¼	10:1	2.33 A	**3XA84**
360 RPM	14 in-lb	175 lb	⅛	5:1	1.28 A	**3XA77**
	30 in-lb	175 lb	¼	5:1	2.33 A	**3XA83**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**

12, 24, and 90VDC Right-Angle Gearmotors

Dayton





5LAE8

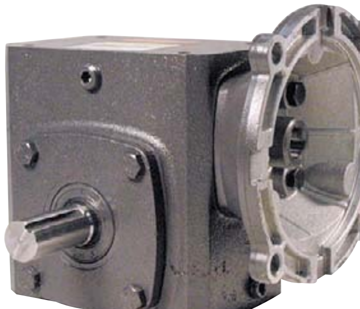
- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: heavy gear oil
- Gears: metal
- Bearings: needle roller
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts

Description	For Use With	Item No.
Motor Brush		
12 and 24VDC Motor Brush Set	5LAF4 thru 5LAF9, 5LAG0 thru 5LAG5	**33K907**
90VDC Motor Brush Set	5LAE8, 5LAE9, 5LAF0 thru 5LAF3	**33K906**

					GEARMOTOR VOLTAGE 12V DC			24V DC			90V DC		
Max. Torque	Overhung Load	Input HP	Gear Ratio	Length Less Shaft	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.
280 in-lb	175 lb	⅛	82:1	11 ¾ in	20 RPM	10.4 A	**5LAF4**	20 RPM	5.2 A	**5LAG0**	22 RPM	1.41 A	**5LAE8**
266 in-lb	175 lb	⅛	60:1	11 ¾ in	—	—	—	26 RPM	6.3 A	**5LAG1**	30 RPM	1.72 A	**5LAE9**
196 in-lb	175 lb	⅛	44:1	11 ¾ in	—	—	—	36 RPM	6.3 A	**5LAG2**	40 RPM	1.72 A	**5LAF0**
165 in-lb	175 lb	⅛	28:1	11 ¾ in	54 RPM	16 A	**5LAF7**	54 RPM	8 A	**5LAG3**	—	—	—
123 in-lb	175 lb	⅛	28:1	11 ¾ in	—	—	—	—	—	—	64 RPM	1.72 A	**5LAF1**
137 in-lb	175 lb	⅛	23:1	11 ¾ in	—	—	—	65 RPM	8 A	**5LAG4**	—	—	—
103 in-lb	175 lb	⅛	23:1	11 ¾ in	—	—	—	—	—	—	77 RPM	1.73 A	**5LAF2**
63 in-lb	175 lb	⅛	10:1	11 ¾ in	150 RPM	16 A	**5LAF9**	150 RPM	8 A	**5LAG5**	—	—	—
47 in-lb	175 lb	⅛	10:1	11 ¾ in	—	—	—	—	—	—	177 RPM	2.01 A	**5LAF3**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
29	56C	1.33 in	60:1	0.25 hp	309.0 in-lb	4Z284	4RN71	4Z001
	56C	1.54 in	60:1	0.25 hp	280.0 in-lb	4RN80	4RN88	4RN96
	56C	1.75 in	60:1	0.3 hp	415 in-lb	4Z292	3GD39	4RP05
	56C	2.06 in	60:1	0.5 hp	636 in-lb	4Z300	4RP13	4Z008
	56C	2.37 in	60:1	0.5 hp	663 in-lb	4RP21	4RP28	4RP35
	56C	2.62 in	60:1	0.75 hp	1,021 in-lb	4Z730	3GD47	4RP42
	56C	3.0 in	60:1	0.75 hp	1,034 in-lb	4RP50	4RP58	4RP66
	56C	3.25 in	60:1	1 hp	1,371 in-lb	3GD55	4RP74	4Z015
35	56C	1.33 in	50:1	0.25 hp	225.0 in-lb	4Z285	4RN72	4RN79
	56C	1.54 in	50:1	0.25 hp	267.0 in-lb	4RN81	4RN89	4RN97
	56C	1.75 in	50:1	0.5 hp	449 in-lb	4Z293	3GD40	4RP06
	56C	2.06 in	50:1	0.5 hp	581 in-lb	4Z301	4RP14	—
	56C	2.37 in	50:1	0.5 hp	582 in-lb	4RP22	4RP29	4RP36
	56C	2.62 in	50:1	0.75 hp	895 in-lb	4Z731	3GD48	4RP43
	56C	3.0 in	50:1	1 hp	1,233 in-lb	4RP51	4RP59	4RP67
	56C	3.25 in	50:1	1.5 hp	1,857 in-lb	3GD56	4RP75	6Z130
44	56C	1.33 in	40:1	0.25 hp	220.0 in-lb	4Z286	4RN73	4Z002
	56C	1.54 in	40:1	0.3 hp	310.0 in-lb	4RN82	4RN90	4RN98
	56C	1.75 in	40:1	0.5 hp	477 in-lb	4Z294	3GD41	4RP07
	56C	2.06 in	40:1	0.5 hp	492 in-lb	4Z302	4RP15	4Z009
	56C	2.37 in	40:1	0.75 hp	758 in-lb	4RP23	4RP30	4RP37
	56C	2.62 in	40:1	1 hp	1,028 in-lb	4Z732	3GD49	4RP44
	56C	3.0 in	40:1	1 hp	1,011 in-lb	4RP52	4RP60	4RP68
	56C	3.25 in	40:1	1.5 hp	1,563 in-lb	3GD57	4RP76	4Z016
58	56C	1.33 in	30:1	0.3 hp	233.0 in-lb	4Z287	4RN74	4Z003
	56C	1.54 in	30:1	0.3 hp	248.0 in-lb	4RN83	4RN91	4RN99
	56C	1.75 in	30:1	0.5 hp	401 in-lb	4Z295	3GD42	4RP08
	56C	2.06 in	30:1	0.75 hp	610 in-lb	4Z303	4RP16	4Z010
	56C	2.37 in	30:1	1 hp	809 in-lb	4RP24	4RP31	4RP38
	56C	2.62 in	30:1	1.5 hp	983 in-lb	4Z733	3GD50	4RP45
	56C	3.0 in	30:1	1.5 hp	1,245 in-lb	4RP53	4RP61	4RP69
	56C	3.25 in	30:1	2 hp	1,689 in-lb	3GD58	4RP77	4Z017
88	56C	1.33 in	20:1	0.5 hp	212.0 in-lb	4Z288	4RN75	4Z004
	56C	1.54 in	20:1	0.5 hp	280.0 in-lb	4RN84	4RN92	4RP01
	56C	1.75 in	20:1	0.75 hp	436 in-lb	4Z296	3GD43	4RP09
	56C	2.06 in	20:1	1 hp	586 in-lb	4Z304	4RP17	4Z011
	56C	2.37 in	20:1	1.5 hp	892 in-lb	4RP25	4RP32	4RP39
	56C	2.62 in	20:1	1.5 hp	891 in-lb	4Z734	3GD51	4RP46
	140TC/180C	3.0 in	20:1	2 hp	1,204 in-lb	4RP54	4RP62	4RP70
	180TC/210C	3.25 in	20:1	3 hp	1,816 in-lb	3GD59	4RP78	4Z018
117	56C	1.33 in	15:1	0.5 hp	203.0 in-lb	4Z289	4RN76	4Z005
	56C	1.54 in	15:1	0.5 hp	218.0 in-lb	4RN85	4RN93	4RP02
	56C	1.75 in	15:1	1 hp	430 in-lb	4Z297	3GD44	4RP10
	56C	2.06 in	15:1	1.5 hp	614 in-lb	4Z305	4RP18	4Z012
	56C	2.37 in	15:1	1.5 hp	686 in-lb	4RP26	4RP33	4RP40
	56C	2.62 in	15:1	2 hp	925 in-lb	4Z735	3GD52	4RP47
	140TC/180C	3.0 in	15:1	3 hp	1,405 in-lb	4RP55	4RP63	4RP71
	180TC/210C	3.25 in	15:1	3 hp	1,407 in-lb	3GD60	4RP79	4Z019
175	56C	1.33 in	10:1	0.75 hp	182.0 in-lb	4Z290	4RN77	4Z006
	56C	1.54 in	10:1	0.75 hp	233.0 in-lb	4RN86	4RN94	4RP03
	56C	1.75 in	10:1	1.5 hp	407 in-lb	4Z298	3GD45	4RP11
	56C	2.06 in	10:1	2 hp	554 in-lb	4Z306	4RP19	4Z013
	56C	2.37 in	10:1	2 hp	651 in-lb	4RP27	4RP34	4RP41
	56C	2.62 in	10:1	3 hp	972 in-lb	4Z736	3GD53	4RP48
	180TC/210C	3.0 in	10:1	3 hp	970 in-lb	4RP56	4RP64	4RP72
	180TC/210C	3.25 in	10:1	5 hp	1,629 in-lb	3GD61	4RP80	4Z020

** @ 1750 rpm.*



Left Shaft Assembly 4Z292

Dayton

C-Face Right-Angle Speed Reducers and Bases

- 29 to 350 rpm, continuous duty
- All-position mounting with optional bases, except input motor shaft up
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Double-lipped and spring-loaded shaft seals; large oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) reducers. Thread-rolled and hardened alloy steel worm for higher strength and lower power loss; forged bronze and hardened worm gear. Ball bearings on input shaft, tapered roller bearings on output shaft. Cast-iron housing. For low-speed/high-torque applications when coupled to a NEMA 56C-Face, 1750-rpm motor (not included).

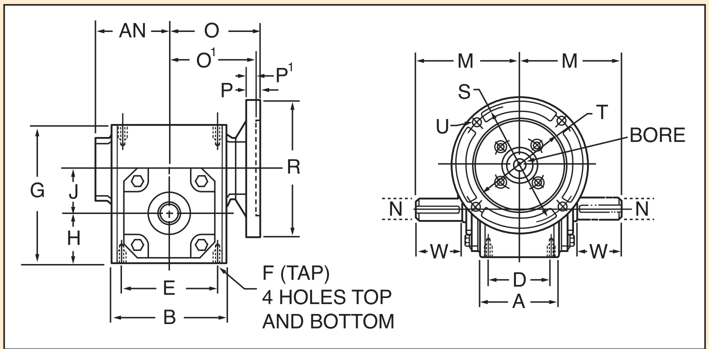
Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
350	56C	1.33 in	5:1	1 hp	163.0 in-lb	4Z291	4RN78	4Z007
	56C	1.54 in	5:1	1 hp	163.0 in-lb	4RN87	4RN95	4RP04
	56C	1.75 in	5:1	2 hp	276.0 in-lb	4Z299	3GD46	4RP12
	56C	2.06 in	5:1	2 hp	329.0 in-lb	4Z307	4RP20	4Z014
	56C	2.62 in	5:1	3 hp	496 in-lb	4Z737	3GD54	4RP49
	180TC/210C	3.0 in	5:1	5 hp	834 in-lb	4RP57	4RP65	4RP73
	210TC/250UC	3.25 in	5:1	7.5 hp	1,260 in-lb	3GD62	4RP81	4Z021

Worm Center Distance	Bolt Hole Dia.	HORIZONTAL Item No.	VERTICAL Item No.
Mounting Bases			
1.33 in	0.34 in	6X499	6X502
1.54 in	0.41 in	4RN65	4RN68
1.75 in	0.41 in	6X093	6X094
2.06 in	0.47 in	6X500	6X503
2.37 in	0.47 in	4RN66	4RN69
2.62 in	0.53 in	1A507	1A508
3 in	0.53 in	4RN67	4RN70
3.25 in	0.53 in	6X501	6X504

Dayton

Dayton C-Face Right-Angle Speed Reducer Dimensional Drawings

Right- and left-hand shafts are determined while facing reducer C-Face input.



Motor Frame No.	Dimensions P	P1	R	S	T	U	Input Shaft Bore	Keyway
56C	0.44"	Ñ"	6.62"	5.88"	4.5"	0.41"	0.625"	0.188 x 1.38"
140TC	0.44"	Ñ"	6.62"	5.88"	4.5"	0.41"	0.875"	0.188 x 1.38"
180TC	Ñ"	0.56"	9.26"	7.25"	8.5"	0.53"	1.125"	0.250 x 1.13"
210TC	Ñ"	0.56"	9.00"	7.25"	8.5"	0.53"	1.375"	0.313 x 1.38"

Worm Center Distance	Overhung Load	Dimensions A	B	D	E	F	G	H	J	AN	M	Output Shaft N	W	Keyway	56C/ 140TC O	182TC/184TC 213TC/215TC O1
1.33"	275"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	4.38"	0.625"	2.00"	0.188 x 1.25"	3.94	—
1.54"	388"	3.69"	5.13"	2.75"	4.19"	5⁄16-18"	5.38"	1.91"	1.54"	2.56"	4.31"	0.750"	1.78"	0.188 x 1.14"	4.50	—
1.75"	700"	3.69"	5.50"	2.75"	4.19"	5⁄16-18"	5.75"	2.06"	1.75"	2.75"	4.31"	0.875"	1.78"	0.188 x 1.14"	4.69	—
2.06"	875"	3.81"	6.00"	3.00"	4.75"	5⁄16-18"	6.38"	2.28"	2.06"	3.00"	4.69"	1.000"	2.09"	0.250 x 1.32"	5.06	—
2.37"	845"	4.06"	6.38"	2.88"	5.00"	⅜-16"	6.94"	2.50"	2.37"	3.19"	5.08"	1.125"	2.37"	0.250 x 1.64"	5.25	—
2.62"	1300"	4.44"	7.38"	3.38"	6.38"	⅜-16"	8.00"	2.94"	2.63"	3.69"	5.63"	1.250"	2.63"	0.250 x 1.93"	5.75	—
3.00"	967"	5.25"	8.12"	4.00"	7.00"	7⁄16-14"	8.88"	3.25"	3.00"	4.06"	6.75"	1.250"	3.25"	0.250 x 2.31"	6.20	—
3.25"	1500"	5.88"	9.00"	4.00"	7.50"	7⁄16-14"	9.38"	3.50"	3.25"	5.03"	7.06"	1.500"	3.25"	0.375 x 2.50"	6.56	7.00

1L295

Boston Gear

C-Face Right-Angle Speed Reducers and Bases

- Left output shaft
- All-position mounting (mounting bases sold separately)
- Shipped without oil, use 34K212 (sold separately on Grainger.com)

Heavy-duty worm gear speed reducers with long-life seals have value-engineered features for flexible installation and simplified maintenance. Integral input worm and shaft of case-hardened alloy steel. Oversize ball and roller bearings for maximum performance. Fine-grain cast-iron housing.

Note: Models with stainless steel housing are available on Grainger.com.

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
29	56C	1.75 in	60:1	0.3 hp	440 in-lb	F718-60-B5-G	**1L295**
	56C	2.06 in	60:1	0.5 hp	670 in-lb	F721-60-B5-G	**1L324**
	56C	2.38 in	60:1	0.5 hp	670 in-lb	F724-60-B5-G	**1L329**
	56C	2.62 in	60:1	0.75 hp	1,004 in-lb	F726-60-B5-G	**1L370**
	140TC/180C	3.75 in	60:1	2 hp	2,678 in-lb	F738-60E-B7-G	**1L869**
	180TC/210C	5.15 in	60:1	5 hp	7,392 in-lb	RF752-60E-B9-G	**1L878**
35	42CZ	1.0 in	50:1	0.16 hp	120.0 in-lb	F710-50-B4-G	**1L237**
	56C	1.0 in	50:1	0.16 hp	120.0 in-lb	F710-50-B5-G	**1L251**
	56C	1.33 in	50:1	0.16 hp	205.0 in-lb	F713-50-B5-G	**1L269**
	56C	1.54 in	50:1	0.25 hp	315.0 in-lb	F715-50-B5-G	**1L282**
	56C	1.75 in	50:1	0.3 hp	420 in-lb	F718-50-B5-G	**1L296**
	56C	2.06 in	50:1	0.5 hp	630 in-lb	F721-50-B5-G	**1L325**
	56C	2.62 in	50:1	1 hp	1,260 in-lb	F726-50-B5-G	**1L363**
	56C	3.25 in	50:1	2 hp	2,520 in-lb	F732-50E-B5-G	**1L858**

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
44	42CZ	1.0 in	40:1	0.16 hp	128.0 in-lb	F710-40-B4-G	**1L238**
	56C	1.0 in	40:1	0.16 hp	128.0 in-lb	F710-40-B5-G	**1L252**
	56C	1.33 in	40:1	0.16 hp	178.0 in-lb	F713-40-B5-G	**1L270**
	56C	1.54 in	40:1	0.3 hp	355.0 in-lb	F715-40-B5-G	**1L283**
	56C	1.75 in	40:1	0.3 hp	355.0 in-lb	F718-40-B5-G	**1L297**
	56C	2.06 in	40:1	0.5 hp	533 in-lb	F721-40-B5-G	**1L326**
	56C	2.38 in	40:1	1 hp	1,206 in-lb	F724-40-B5-G	**1L331**
	56C	2.62 in	40:1	1 hp	1,066 in-lb	F726-40-B5-G	**1L364**
	140TC/180C	3.25 in	40:1	2 hp	2,131 in-lb	F732-40E-B7-G	**1L857**
58	42CZ	1.0 in	30:1	0.16 hp	139.0 in-lb	F710-30-B4-G	**1L239**
	56C	1.33 in	30:1	0.25 hp	208.0 in-lb	F713-30-B5-G	**1L271**
	56C	1.54 in	30:1	0.3 hp	277.0 in-lb	F715-30-B5-G	**1L284**
	56C	1.75 in	30:1	0.5 hp	416 in-lb	F718-30-B5-G	**1L298**
	56C	2.06 in	30:1	0.75 hp	624 in-lb	F721-30-B5-G	**1L327**
	56C	2.38 in	30:1	1 hp	832 in-lb	F724-30-B5-G	**1L332**
	56C	2.62 in	30:1	1.5 hp	1,247 in-lb	F726-30-B5-G	**1L366**
	140TC/180C	2.62 in	30:1	1.5 hp	1,247 in-lb	F726-30-B7-G	**1L365**
70	56C	1.33 in	25:1	0.3 hp	234.0 in-lb	F713-25-B5-G	**1L272**
	56C	1.54 in	25:1	0.5 hp	350.0 in-lb	F715-25-B5-G	**1L285**
	56C	1.75 in	25:1	0.5 hp	350.0 in-lb	F718-25-B5-G	**1L299**
	56C	2.06 in	25:1	1 hp	702 in-lb	F721-25-B5-G	**1L328**
	56C	2.38 in	25:1	1.5 hp	1,056 in-lb	F724-25-B5-G	**1L333**
	140TC/180C	2.38 in	25:1	1.5 hp	1,056 in-lb	F724-25-B7-G	**1L349**
88	42CZ	1.0 in	20:1	0.25 hp	130.0 in-lb	F710-20-B4-G	**1L240**
	56C	1.0 in	20:1	0.25 hp	130.0 in-lb	F710-20-B5-G	**1L254**
	56C	1.33 in	20:1	0.5	308 in-lb	F713-20-B5-G	**1L273**
	56C	1.54 in	20:1	0.5 hp	295.0 in-lb	F715-20-B5-G	**1L286**
	56C	1.75 in	20:1	0.75 hp	443 in-lb	F718-20-B5-G	**1L300**
	56C	2.06 in	20:1	1 hp	590 in-lb	F721-20-B5-G	**1L318**

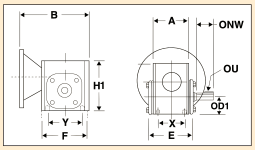
** @ 1750 rpm.*

Reducer Model	Worm Center Distance	Base Mounting Hole Pattern Width	Base Mounting Hole Pattern Length	Base Width	Base Length	Item No.
Cast Iron Mounting Bases						
710	1.0 in	2.88 in	3.75 in	3.69 in	4.63 in	**4NY17**
713	1.33 in	3.31 in	4.38 in	4.19 in	5.38 in	**4YA78**
715	1.54 in	4.31 in	5.25 in	5.44 in	6.44 in	**4YA79**
718	1.75 in	4.5 in	5.75 in	5.69 in	7.0 in	**4YA80**
721	2.06 in	4.69 in	6.38 in	5.94 in	7.75 in	**4YA81**
724	2.38 in	4.88 in	7.06 in	6.19 in	8.5 in	**4YA82**
726	2.62 in	5.25 in	8.0 in	6.66 in	9.63 in	**4YA83**

Boston Gear C-Face Right-Angle Speed Reducer Dimensional Drawings

Boston Gear

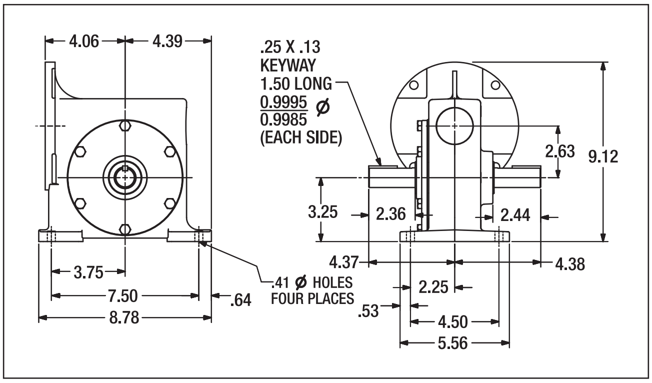
Right- and left-hand shafts are determined while facing reducer C-Face input.



Reducer Model	Worm Center Distance	Overhung Load	A	B: 42CZ	B: 56C 140TC	B: 180TC 210TC	B: 180TC 210TC 250TC	E	F	H1	X	Y	Tap Size	Depth	Output Shaft: OD1	OU	ONW	Keyway
710	1.00"	150 lb.	2.50"	4.78"	5.56"	—	—	3.34"	3.25"	3.63"	1.69"	2.63"	¼-20"	0.44"	1.31"	0.500"	1.19"	⅛ x ⅝"
713	1.33"	200 lb.	2.88"	—	6.06"	—	—	4.30"	4.25"	4.64"	2.00"	3.25"	5⁄16-18"	0.50"	1.72"	0.625"	2.00"	3⁄16 x 1"
715	1.54"	300 lb.	3.69"	—	7.06"	—	—	5.06"	5.13"	5.38"	2.75"	4.19"	5⁄16-18"	0.50"	1.91"	0.750"	1.78"	3⁄16 x 1"
718	1.75"	600 lb.	3.69"	—	7.44"	—	—	5.03"	5.50"	5.75"	2.75"	4.19"	5⁄16-18"	0.50"	2.06"	0.875"	1.78"	3⁄16 x 1"
721	2.06"	700 lb.	3.81"	—	8.06"	—	—	5.19"	6.00"	6.38"	2.88"	5.00"	⅜-16"	0.56"	2.28"	1.000"	2.09"	¼ x 1¼"
724	2.38"	900 lb.	4.06"	—	8.44"	8.88"	—	5.43"	6.38"	6.94"	2.88"	5.00"	⅜-16"	0.56"	2.50"	1.125"	2.38"	¼ x 1¼"
726	2.62"	1000 lb.	4.44"	—	9.44"	9.88"	—	5.90"	7.38"	8.00"	3.38"	6.38"	⅜-16"	0.56"	2.94"	1.125"	2.63"	¼ x 1 15⁄16"
732	3.25"	1300 lb.	5.88"	—	11.06"	11.50"	—	7.56"	9.00"	9.38"	4.00"	7.50"	7⁄16-14"	0.66"	3.50"	1.375"	3.25"	5⁄16 x 2 7⁄16"
738	3.75"	2000 lb.	6.38"	—	12.06"	12.50"	—	8.38"	10.00"	10.44"	4.75"	8.50"	½-13"	0.81"	3.88"	1.625"	3.50"	⅜ x 2¼"
752	5.16"	2200 lb.	7.38"	—	—	—	22.56"	9.65"	13.13"	13.75"	5.81"	11.00"	⅝-11"	1.00"	5.31"	2.000"	4.16"	½ x 2 15⁄16"

(Columns E through Depth are under "Speed Reducer Dimensions".)

2Z154



Dayton

C-Face Right-Angle Speed Reducers

- 29 to 173 output rpm, continuous duty
- Double-output shaft
- Horizontal floor or ceiling mount
- 2.63" worm center distance
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Ball bearings

For use with ¼ to ¾ HP, NEMA 56C, 1725 rpm motors. Case-hardened, ball bearing-supported worm. High-strength bronze, tapered roller bearing-supported output gear. Cast-iron housing.

Nominal Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
29	1,117 lb	60:1	0.5 hp	537 in-lb	**6Z128**
35	986 lb	50:1	0.5 hp	498 in-lb	**2Z151**
43	870 lb	40:1	0.5 hp	431 in-lb	**6Z129**
69	679 lb	25:1	0.75 hp	492 in-lb	**2Z152**
86	629 lb	20:1	0.75 hp	422 in-lb	**2Z153**
138	487 lb	12.5:1	0.75 hp	292.0 in-lb	**2Z154**
173	432 lb	10:1	0.75 hp	226.0 in-lb	**2Z936**

** @ 1725 rpm.*

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nominal Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
17	56C	2.38 in	1,025 lb	100:1	0.25 hp	533 in-lb	E24MWNS	**4GAN8**
	56C	2.63 in	1,025 lb	100:1	0.3 hp	744 in-lb	E26MWNS	**4GAN9**
	56C	3.5 in	2,130 lb	100:1	0.5 hp	1,243 in-lb	E35MWNS	**4GAP1**
22	56C	2.38 in	1,025 lb	80:1	0.3 hp	638 in-lb	E24MWNS	**4GAP2**
	56C	2.63 in	1,025 lb	80:1	0.5 hp	979 in-lb	E26MWNS	**4GAP3**
	56C	3.5 in	2,130 lb	80:1	1 hp	2,146 in-lb	E35MWNS	**4GAP4**
29	56C	1.33 in	290 lb	60:1	0.16 hp	181.0 in-lb	E13MWNS	**4GAP5**
	56C	1.75 in	650 lb	60:1	0.25 hp	386.0 in-lb	E17MWNS	**4GAP6**
	56C	2.0 in	650 lb	60:1	0.3 hp	528 in-lb	E20MWNS	**4GAP7**
	56C	2.38 in	1,025 lb	60:1	0.5 hp	810 in-lb	E24MWNS	**4GAP8**
	56C/140TC	2.63 in	1,025 lb	60:1	0.75 hp	1,268 in-lb	E26MWNS	**4GAP9**
	56C/140TC	3.0 in	1,350 lb	60:1	1 hp	1,766 in-lb	E30MWNS	**4GAR1**
	140TC	3.5 in	2,130 lb	60:1	2 hp	3,573 in-lb	E35MWNS	**4GAR2**
35	56C	1.33 in	290 lb	50:1	0.16 hp	209.0 in-lb	E13MWNS	**4GAR3**
	56C	1.75 in	650 lb	50:1	0.3 hp	449 in-lb	E17MWNS	**4GAR4**
	56C	2.0 in	650 lb	50:1	0.5 hp	706 in-lb	E20MWNS	**4GAR5**
	56C	2.38 in	1,025 lb	50:1	0.75 hp	1,083 in-lb	E24MWNS	**4GAR6**
	56C/140TC	2.63 in	1,025 lb	50:1	1 hp	1,481 in-lb	E26MWNS	**4GAR7**
	56C/140TC	3.0 in	1,350 lb	50:1	1.5 hp	2,305 in-lb	E30MWNS	**4GAR8**
	140TC	3.5 in	2,130 lb	50:1	2 hp	3,076 in-lb	E35MWNS	**4GAR9**
43	56C	1.33 in	290 lb	40:1	0.25 hp	256.0 in-lb	E13MWNS	**4GAT1**
	56C	1.75 in	650 lb	40:1	0.5 hp	580 in-lb	E17MWNS	**4GAT2**
	56C	2.0 in	650 lb	40:1	0.5 hp	585 in-lb	E20MWNS	**4GAT3**
	56C	2.38 in	1,025 lb	40:1	1 hp	1,203 in-lb	E24MWNS	**4GAT4**
	56C/140TC	2.63 in	1,025 lb	40:1	1 hp	1,223 in-lb	E26MWNS	**4GAT5**
	56C/140TC	3.0 in	1,350 lb	40:1	2 hp	2,516 in-lb	E30MWNS	**4GAT6**
	56C/140TC	3.5 in	2,130 lb	40:1	3 hp	3,787 in-lb	E35MWNS	**4GAT7**
58	56C	1.33 in	290 lb	30:1	0.3 hp	276.0 in-lb	E13MWNS	**4GAT8**
	56C	1.75 in	650 lb	30:1	0.5 hp	452 in-lb	E17MWNS	**4GAT9**
	56C	2.0 in	650 lb	30:1	0.75 hp	687 in-lb	E20MWNS	**4GAU1**
	56C	2.38 in	1,025 lb	30:1	1 hp	938 in-lb	E24MWNS	**4GAU2**
	56C/140TC	2.63 in	1,025 lb	30:1	1.5 hp	1,427 in-lb	E26MWNS	**4GAU3**
	56C/140TC	3.0 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30MWNS	**4GAU4**
	140TC	3.5 in	2,130 lb	30:1	3 hp	2,906 in-lb	E35MWNS	**4GAU6**
	180TC	3.0 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30MWNS	**4GAU5**
	180TC	3.5 in	2,130 lb	30:1	3 hp	2,906 in-lb	E35MWNS	**4GAU7**
86	56C	1.33 in	290 lb	20:1	0.3 hp	202.0 in-lb	E13MWNS	**4GAU8**
	56C	1.75 in	650 lb	20:1	0.75 hp	482 in-lb	E17MWNS	**4GAU9**
	56C/140TC	2.0 in	650 lb	20:1	1 hp	650 in-lb	E20MWNS	**4GAV1**
	56C/140TC	2.38 in	1,025 lb	20:1	2 hp	1,311 in-lb	E24MWNS	**4GAV2**
	56C/140TC	2.63 in	1,025 lb	20:1	2 hp	1,322 in-lb	E26MWNS	**4GAV3**
	56C/140TC	3.0 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30MWNS	**4GAV4**
	180TC	3.0 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30MWNS	**4GAV5**
	180TC	3.5 in	2,130 lb	20:1	5 hp	3,334 in-lb	E35MWNS	**4GAV6**
115	56C	1.33 in	290 lb	15:1	0.5 hp	238.0 in-lb	E13MWNS	**4GAV7**
	56C/140TC	1.75 in	650 lb	15:1	1 hp	494 in-lb	E17MWNS	**4GAV8**
	56C/140TC	2.0 in	650 lb	15:1	1.5 hp	749 in-lb	E20MWNS	**4GAV9**
	56C/140TC	2.38 in	1,025 lb	15:1	2 hp	1,003 in-lb	E24MWNS	**4GAW1**
	56C/140TC	2.63 in	1,025 lb	15:1	3 hp	1,512 in-lb	E26MWNS	**4GAW2**
	56C/145TC	3.0 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30MWNS	**4GAW3**
	180TC	3.0 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30MWNS	**4GAW4**
	180TC	3.5 in	2,130 lb	15:1	5 hp	2,542 in-lb	E35MWNS	**4GAW5**
172	56C	1.33 in	290 lb	10:1	0.75 hp	248.0 in-lb	E13MWNS	**4GAW6**
	56C/140TC	1.75 in	650 lb	10:1	1.5 hp	507 in-lb	E17MWNS	**4GAW7**
	56C/140TC	2.0 in	650 lb	10:1	2 hp	687 in-lb	E20MWNS	**4GAW8**
	56C/140TC	2.38 in	895 lb	10:1	3 hp	1,021 in-lb	E24MWNS	**4GAW9**
	56C/140TC	2.63 in	895 lb	10:1	3 hp	1,027 in-lb	E26MWNS	**4GAX1**
	180TC	3.0 in	1,298 lb	10:1	5 hp	1,722 in-lb	E30MWNS	**4GAX2**
345	56C	1.33 in	290 lb	5:1	1 hp	171.0 in-lb	E13MWNS	**4GAX3**
	56C/140TC	1.75 in	572 lb	5:1	2 hp	344.0 in-lb	E17MWNS	**4GAX4**
	56C/140TC	2.0 in	572 lb	5:1	3 hp	518 in-lb	E20MWNS	**4GAX5**
	56C/140TC	2.38 in	748 lb	5:1	5 hp	863 in-lb	E24MWNS	**4GAX6**
	180TC	2.63 in	748 lb	5:1	7.5 hp	1,299 in-lb	E26MWNS	**4GAX7**

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*

4GAP6

1L382

C-Face Right-Angle Speed Reducers and Bases

WINSMITH HIGH QUALITY SPEED REDUCERS

- Interchangeable with Winsmith MDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle 460 synthetic lubricant

Black coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

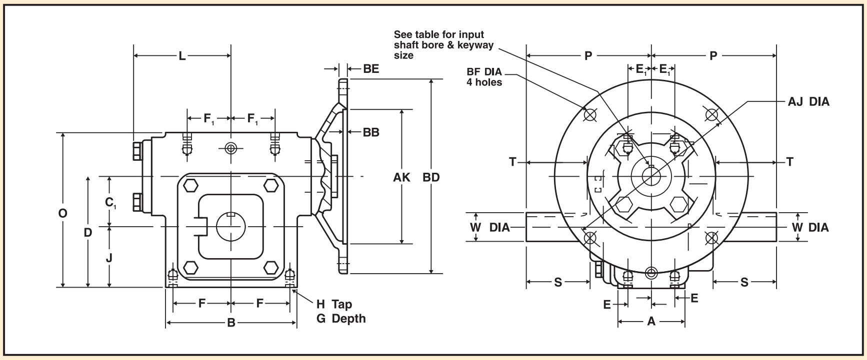
Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern Length	Width	Base Thickness	Mfr. Model	Item No.
Top Bases						
1.33 in	0.41 in	4.0 in	2.5 in	0.25 in	E13WB	**1L382**
1.75 in	0.41 in	4.0 in	3.5 in	0.5 in	E17WB	**1L402**
2 in	0.41 in	4.0 in	3.5 in	0.25 in	E20WB	**1L383**
2.38 in	0.56 in	5.75 in	4.5 in	0.75 in	E24WB	**1L399**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	E26WB	**1L397**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	E35WB	**1L396**
Top and Bottom Base						
3 in	0.56 in	6.5 in	5.25 in	0.5 in	E30WT	**1L381**
Bottom Bases						
1.33 in	0.41 in	4.0 in	2.5 in	0.375 in	E13WT	**1L379**
1.75 in	0.41 in	3.81 in	3.5 in	0.5 in	E17WT	**1L401**
2 in	0.41 in	3.81 in	3.5 in	0.5 in	E20WT	**1L380**
2.38 in	0.56 in	5.75 in	4.5 in	0.625 in	E24WT	**1L400**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	E26WT	**1L398**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	E35WT	**1L395**

Winsmith C-Face Right-Angle Speed Reducer Dimensional Drawings

WINSMITH HIGH QUALITY SPEED REDUCERS

Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3/16 x 3/32"	3/16 x 3/32"	1/4 x 1/8"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*



Reducer Model	Worm Center Dist.	A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	O	P	W†	S	T	Keyway
E13MWNS	1.33"	2.00"	3.88"	1.333"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5/16-18"	1.75"	2.83"	4.33"	4.00"	0.750"	2.06"	1.88"	0.19 x 0.09"
E17MWNS	1.75"	2.38"	4.63"	1.750"	3.88"	0.88"	0.88"	1.94"	1.69"	0.56"	3/8-16"	2.13"	3.44"	5.38"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E20MWNS	2.00"	2.38"	5.25"	2.000"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3/8-16"	2.13"	3.44"	5.63"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E24MWNS	2.37"	3.13"	5.38"	2.375"	5.25"	1.13"	1.13"	2.19"	2.19"	0.63"	1/2-13"	2.88"	4.50"	7.25"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E26MWNS	2.63"	3.13"	5.88"	2.625"	5.75"	1.13"	1.13"	2.44"	2.44"	0.63"	1/2-13"	3.13"	4.50"	7.88"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30MWNS	3.00"	3.50"	6.62"	3.000"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	1/2-13"	3.50"	4.63"	9.00"	5.88"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35MWNS	3.50"	3.75	7.69"	3.500"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5/8-11"	4.00"	5.46"	10.13"	7.00"	1.750"	3.75"	3.63"	0.38 x 0.19"

(Columns A through P are grouped under "Dimensions"; W†, S, T and Keyway under "Output Shaft".)

† Shaft dia. tolerances +0.000, -0.001.

C-Face Right-Angle Hollow-Shaft Speed Reducers

3XJC5

- Interchangeable with Winsmith MDSS models
- Symmetric hollow output shaft for flexibility in mounting
- Filled with Mobil Glygoyle 460 synthetic lubricant

White coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Open/close vent. Predrilled and tapped holes on top and bottom for bracket attachment. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

Note: Additional sizes are available on Grainger.com.

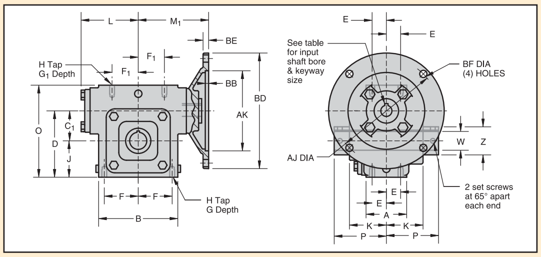
Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
29 RPM	56C	2 in	1,345 lb	60:1	0.3 hp	528 in-lb	E20MWSS	**3XJD2**
	56C	2.63 in	1,823 lb	60:1	0.75 hp	1,268 in-lb	E26MWSS	**3XJD7**
	56C/140TC	3 in	2,020 lb	60:1	1 hp	1,766 in-lb	E30MWSS	**3XJE5**
	56C/140TC	3.5 in	3,186 lb	60:1	2 hp	3,573 in-lb	E35MWSS	**3XJF1**
35 RPM	56C/140TC	2.63 in	1,823 lb	50:1	1 hp	1,481 in-lb	E26MWSS	**3XJD6**
	56C/140TC	3 in	2,020 lb	50:1	1.5 hp	2,305 in-lb	E30MWSS	**3XJE4**
43 RPM	56C	2 in	1,345 lb	40:1	0.5 hp	585 in-lb	E20MWSS	**3XJC9**
	56C/140TC	3 in	2,020 lb	40:1	2 hp	2,516 in-lb	E30MWSS	**3XJE3**
58 RPM	56C/140TC	2.63 in	1,823 lb	30:1	1.5 hp	1,427 in-lb	E26MWSS	**3XJD4**
	56C	2 in	1,345 lb	30:1	0.75 hp	687 in-lb	E20MWSS	**3XJC8**
86 RPM	56C/140TC	2 in	1,345 lb	20:1	1 hp	650 in-lb	E20MWSS	**3XJC7**
	56C/140TC	2.63 in	1,823 lb	20:1	2 hp	1,322 in-lb	E26MWSS	**3XJD3**
172 RPM	56C/140TC	2 in	1,345 lb	10:1	2 hp	687 in-lb	E20MWSS	**3XJC6**
345 RPM	180TC	3 in	1,175 lb	5:1	7.5 hp	1,301 in-lb	E30MWSS	**3XJD8**
	56C/140TC	2 in	1,265 lb	5:1	3 hp	518 in-lb	E20MWSS	**3XJC5**

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*

Reducer Model No.	Worm Center Distance	Item No.
Torque Arm Kits		
E20MWSS	2.0 in	**3XJF9**
E26MWSS	2.63 in	**3XJG1**
E30MWSS	3.0 in	**3XJG2**

Reducer Model No.	Worm Center Distance	Driven Shaft O.D.	Driven Shaft Keyway	Item No.
Bronze Bushing Kits				
E20MWSS	2.0 in	1 ¼ in	¼ x ⅛"	**3XJF2**
E26MWSS	2.63 in	1 in	¼ x ⅛"	**3XJF3**
E26MWSS	2.63 in	1 ¼ in	¼ x ⅛"	**3XJF4**
E30MWSS	3.0 in	1 7⁄16 in	⅜ x 3⁄16"	**3XJF6**

Winsmith C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings



Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3⁄16 x 3⁄32"	3⁄16 x 3⁄32"	¼ x ⅛"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*

Reducer Model	Worm Center Dist.	Dimensions A	B	C1	D	E	F	F1	G Depth	H Tap	J	L	M1	O	Output Shaft W†	K	P	Z	Keyway
E20MWSS	2.00"	2.38"	5.25"	2.00"	4.13"	0.88"	2.19"	1.69"	0.63"	⅜-16"	2.13"	3.44"	4.06"	5.63"	1.438"	2.63"	3.31"	2.00"	⅜ x ⅛"
E26MWSS	2.63"	3.13"	5.88"	2.63"	5.75"	1.13"	2.44"	2.44"	0.69"	½-13"	3.13"	4.50"	5.38"	7.88"	1.688"	2.81"	3.50"	2.50"	⅜ x 3⁄16"
E30MWSS	3.00"	3.50"	6.62"	3.00"	6.50"	1.31"	2.75"	2.75"	0.75"	½-13"	3.50"	4.63"	5.56"	9.00"	1.938"	3.00"	3.69"	2.63"	½ x 3⁄16"

† Shaft dia. tolerances +0.000, +0.002.

FLEXBLOC C-Face Right-Angle Hollow-Shaft Speed Reducers

29TL62

- Universal gear housing
- Adaptable to any mounting position
- Filled with food grade synthetic lubricant
- Includes single and double output shafts with standard keys

Motor coupling provides accurate motor shaft alignment, minimizes fretting, and creates a low backlash/high-strength connection.

Fine-grained bronze alloy worm gear and hardened alloy steel worm pinion gear for durability. Oversize output ball bearings provide high radial and axial load capacities and long service life. Double-lip oil seals. Aluminum alloy housing.

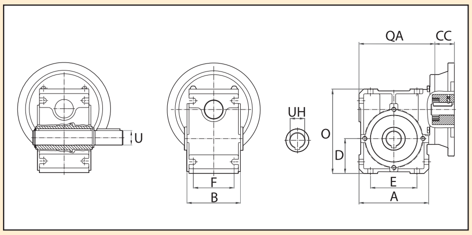
Note: Additional sizes are available on Grainger.com.

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
18	56C	1.57 in	720 lb	100:1	0.25 hp	301.0 in-lb	SK1SI40Y	**29TL62**
	56C	1.97 in	1,080 lb	100:1	0.37 hp	549 in-lb	SK1SI50Y	**29TL63**
	56C	2.48 in	1,415 lb	100:1	0.63 hp	974 in-lb	SK1SI63Y	**29TL64**
22	56C	1.57 in	720 lb	80:1	0.25 hp	327.0 in-lb	SK1SI50Y	**29TL67**
	56C	1.97 in	1,080 lb	80:1	0.44 hp	593 in-lb	SK1SI50Y	**29TL68**
	56C	2.48 in	1,415 lb	80:1	0.75 hp	1,044 in-lb	SK1SI63Y	**29TL69**
	56C	2.95 in	2,250 lb	80:1	1.06 hp	1,779 in-lb	SK1SI75Y	**29TL70**
29	56C	1.22 in	405 lb	60:1	0.25 hp	212.0 in-lb	SK1SI31Y	**29TL71**
	56C	1.57 in	720 lb	60:1	0.37 hp	354.0 in-lb	SK1SI40Y	**29TL72**
	56C	1.97 in	1,080 lb	60:1	0.5 hp	646 in-lb	SK1SI50Y	**29TL73**
	56C	2.48 in	1,415 lb	60:1	0.88 hp	1,150 in-lb	SK1S163Y	**29TL74**
	56C	2.95 in	2,250 lb	60:1	1.37 hp	1,956 in-lb	SK1SI75Y	**29TL75**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
44	56C	1.22 in	405 lb	40:1	0.37 hp	248.0 in-lb	SK1SI31Y	**29TL83**
	56C	1.57 in	720 lb	40:1	0.5 hp	407 in-lb	SK1SI40Y	**29TL84**
	56C	1.97 in	1,080 lb	40:1	0.88 hp	735 in-lb	SK1SI50Y	**29TL85**
	56C	2.95 in	2,250 lb	40:1	2.25 hp	2,212 in-lb	SK1SI75Y	**29TL88**
88	56C	1.22 in	405 lb	20:1	0.5 hp	239.0 in-lb	SK1SI31Y	**29TM09**
	56C	1.57 in	720 lb	20:1	0.75 hp	398.0 in-lb	SK1SI40Y	**29TM10**
117	56C	1.57 in	720 lb	15:1	1.06 hp	434 in-lb	SK1SI40Y	**29TM19**
	56C	1.97 in	1,080 lb	15:1	1.75 hp	770 in-lb	SK1SI50Y	**29TM21**
	56C	2.48 in	1,415 lb	15:1	3.06 hp	1,372 in-lb	SK1SI63Y	**29TM23**
175	56C	1.22 in	405 lb	10:1	0.75 hp	230.0 in-lb	SK1SI31Y	**29TM29**
	56C	1.57 in	720 lb	10:1	1.25 hp	372.0 in-lb	SK1SI40Y	**29TM30**
233	56C	2.48 in	1,415 lb	7.5:1	5.06 hp	1,230 in-lb	SK1SI63Y	**29TM45**
	140TC	2.48 in	1,415 lb	7.5:1	5.06 hp	1,230 in-lb	SK1SI63Y	**29TM46**

**@ 1750 rpm. †To complete Mfr. Model include NEMA Frame and Nominal Ratio values.*

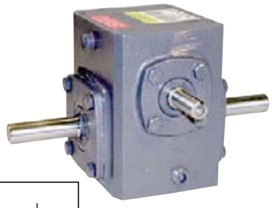
Nord FLEXBLOC C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings



Reducer Model	Worm Center Distance	Dimensions A	B	D	E	F	O	QA	U	UH	Motor Frame Dimensions CC 56C	140TC
SK1SI31	1.22"	3.15"	2.48"	1.57"	2.13"	1.73"	3.82"	3.82"	0.625"	0.6250"	1.89"	—
SK1SI40	1.57"	3.94"	3.07"	1.97"	2.76"	2.36"	4.78"	4.69"	0.750"	1.0000"	1.46"	1.93"
SK1SI50	1.97"	4.72"	3.62"	2.36"	3.15"	2.76"	5.67"	5.16"	1.000"	1.1250"	1.46"	1.93"
SK1SI63	2.48"	5.67"	4.41"	2.83"	3.94"	3.35"	6.85"	6.22"	1.125"	1.4375"	1.46"	1.93"
SK1SI75	2.95"	6.77"	5.12"	3.39"	4.72"	3.54"	8.08"	7.87"	1.375"	1.9375"	1.61"	1.61"

Indirect-Drive Right-Angle Speed Reducers

Dayton



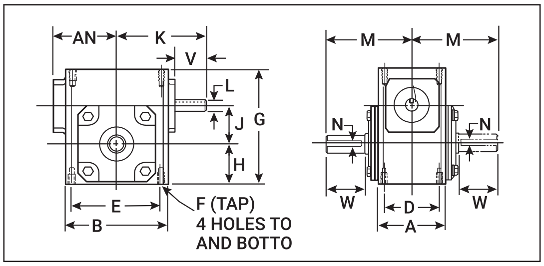
6Z419

- Reversible rotation
- All-position mounting, except input shaft down; optional bases available on page 87
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Double-lip, spring-loaded oil seals; large, prefilled oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) models. The output shaft on single-output models can be field-converted from standard left-hand to right-hand extension. Worm is thread-rolled and alloy-hardened for higher strength and low power loss. Left-hand facing input shaft. Input shaft has ball bearings and output shaft has tapered roller bearings. Cast-iron housing. Flange coupling kits to adapt NEMA 56C-145TC motors to Dayton right-angle speed reducers sold separately; see below.

FLANGE COUPLING KITS

- Bolt circle dia.: 5.88"
- Mounting hardware and shaft coupling included



Worm Center Distance	Dimensions A	B	D	E	F	G	H	J	AN	K	Input Shaft L	V	Keyway	Output Shaft M	N	W	Keyway
1.00"	2.50"	3.25"	1.69"	2.62"	¼-20"	3.63"	1.31"	1.00"	1.63"	2.88"	0.375"	0.81"	0.093 x 0.75"	2.88"	0.499"	1.19"	0.125 x 0.64"
1.33"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	3.91"	0.500"	1.31"	0.125 x 1.38"	4.38"	0.625"	2.08"	0.188 x 1.25"
1.75"	3.69"	5.50"	2.75"	4.19"	5⁄16-18"	5.75"	2.06"	1.75"	2.75"	4.88"	0.625"	1.56"	0.188 x 1.50"	4.31"	0.875"	1.78"	0.188 x 1.14"
2.06"	3.81"	6.00"	3.00"	4.75"	5⁄16-18"	6.38"	2.28"	2.06"	3.00"	5.13"	0.625"	1.56"	0.188 x 1.50"	4.69"	1.000"	2.09"	0.250 x 1.32"
2.62	4.44"	7.38"	3.38"	6.38"	⅜-16"	8.00"	2.94"	2.63"	3.69"	6.31"	0.750"	2.00"	0.188 x 1.63"	5.63"	1.250"	2.62"	0.250 x 1.93"

Nom. Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	DOUBLE OUTPUT Item No.	SINGLE OUTPUT Item No.
29	1.33 in	275 lb	60:1	0.25 hp	209.0 in-lb	**6Z419**	**6Z439**
	1.75 in	700 lb	60:1	0.3 hp	415 in-lb	**6Z420**	**6Z440**
	2.06 in	875 lb	60:1	0.5 hp	636 in-lb	**6Z421**	**6Z441**
	2.62 in	1,300 lb	60:1	0.75 hp	1,021 in-lb	**6Z422**	**6Z442**
44	2.06 in	875 lb	40:1	0.5 hp	492 in-lb	**6Z424**	**6Z449**
	2.62 in	1,300 lb	40:1	1 hp	1,028 in-lb	**6Z425**	**6Z450**
58	1.75 in	700 lb	30:1	0.5 hp	401 in-lb	**6Z426**	**6Z453**
	2.06 in	875 lb	30:1	0.75 hp	610 in-lb	**6Z427**	**6Z454**
	2.62 in	1,300 lb	30:1	1.5 hp	983 in-lb	**6Z428**	**6Z455**
88	1.75 in	700 lb	20:1	0.75 hp	436 in-lb	**6Z429**	**6Z457**
	2.06 in	875 lb	20:1	1 hp	586 in-lb	**6Z430**	**6Z458**
350	1.0 in	150 lb	5:1	0.5 hp	79.0 in-lb	**6Z436**	**6Z469**

** @ 1750 rpm.*

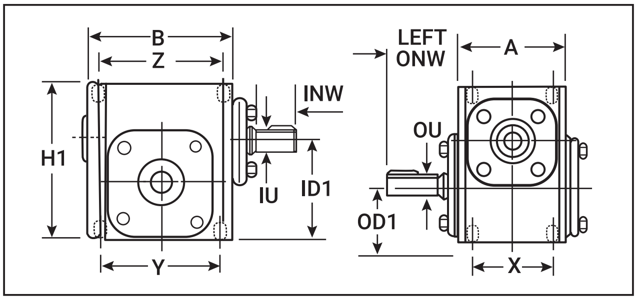
Worm Center Distance	Input Motor Frame Size	Overall Length Reducer & Flange	Motor Coupling Bore	Reducer Coupling Bore	Reducer Coupling Keyway	Item No.
Flange Coupling Kits						
1.33 in	56C	7.34 in	0.63 in	0.5 in	0.13 x 0.06"	**3A701**
1.75 in	56C	10.28 in	0.63 in	0.63 in	0.19 x 0.09"	**6HJ79**
	143TC/145TC	10.28 in	0.88 in	0.63 in	0.19 x 0.09"	**6HJ80**
2.06 in	56C	11.31 in	0.63 in	0.63 in	0.19 x 0.09"	**6HJ81**
	143TC/145TC	11.31 in	0.88 in	0.63 in	0.19 x 0.09"	**6HJ82**
2.62 in	56C	13.16 in	0.63 in	0.75 in	0.19 x 0.09"	**3A706**
	143TC/145TC	13.16 in	0.88 in	0.75 in	0.19 x 0.09"	**3A707**

Indirect-Drive Right-Angle Single-Shaft Speed Reducers

Boston Gear

- All-position mounting (bases sold separately)
- Shipped without oil, use 34K212

Heavy-duty worm gear speed reducers have value-engineered features for flexible installation, long life, and simplified maintenance. Integral input worm and shaft are made from case-hardened alloy steel. Oversized ball and roller bearings assure maximum performance. Fine-grained cast-iron housing and output shaft (left-hand facing input shaft).



1L244

Worm Center Dist.	Overhung Load	Dimensions A	B	H1	X	Y	Z	ID1	Input Shaft INW	IU	Keyway	Output Shaft OD1	ONW	OU	Keyway
1.00"	150 lbs.	2.50"	3.25"	3.63"	1.69"	2.63"	2.63"	2.31"	0.81"	0.375"	3⁄32 x ⅜"	1.31"	1.19"	0.500"	⅛ x ⅝"
1.33"	200 lbs.	2.88"	4.25"	4.66"	2.00"	3.25"	3.25"	3.05"	1.31"	0.500"	⅛ x ⅝"	1.72"	2.00"	0.625"	3⁄16 x 1"
1.54"	300 lbs.	3.69"	5.13"	5.38"	2.75"	4.19"	4.19"	3.45"	1.56"	0.625"	3⁄16 x 13⁄16"	1.91"	1.78"	0.750"	3⁄16 x 1"
1.75"	500 lbs.	3.69"	5.50"	5.75"	2.75"	4.19"	4.19"	3.81"	1.56"	0.625"	3⁄16 x 13⁄16"	2.06"	1.78"	0.875"	3⁄16 x 1"
2.06"	700 lbs.	3.81"	6.00"	6.38"	2.88"	5.00"	5.00"	4.34"	1.56"	0.625"	3⁄16 x 13⁄16"	2.28"	2.09"	1.000"	¼ x 1¼"
2.38"	900 lbs.	4.06"	6.38"	6.94"	2.88"	5.00"	5.00"	4.88"	2.00"	0.750"	3⁄16 x 1"	2.50"	2.37"	1.125"	¼ x 1¼"
2.62"	1000 lbs.	4.44"	7.38"	8.00"	3.38"	6.38"	6.38"	5.56"	2.00"	0.750"	3⁄16 x 1"	2.94"	2.62"	1.125"	¼ x 1 15⁄16"

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
29	2.38 in	60:1	0.5 hp	772 in-lb	724-60-G	**1L347**
35	1.0 in	50:1	0.16 hp	153.0 in-lb	710-50-G	**1L244**
	1.33 in	50:1	0.16 hp	198.0 in-lb	713-50-G	**1L265**
	1.54 in	50:1	0.25 hp	306.0 in-lb	715-50-G	**1L275**
	2.38 in	50:1	0.75 hp	1,014 in-lb	724-50-G	**1L348**
44	1.0 in	40:1	0.16 hp	148.0 in-lb	710-40-G	**1L245**
	1.33 in	40:1	0.16 hp	165.0 in-lb	713-40-G	**1L259**
	1.54 in	40:1	0.3 hp	342.0 in-lb	715-40-G	**1L276**
	2.38 in	40:1	0.75 hp	837 in-lb	724-40-G	**1L343**
58	1.54 in	30:1	0.3 hp	274.0 in-lb	715-30-G	**1L277**
	2.38 in	30:1	1 hp	902 in-lb	724-30-G	**1L344**
70	1.33 in	25:1	0.3 hp	238.0 in-lb	713-25-G	**1L261**

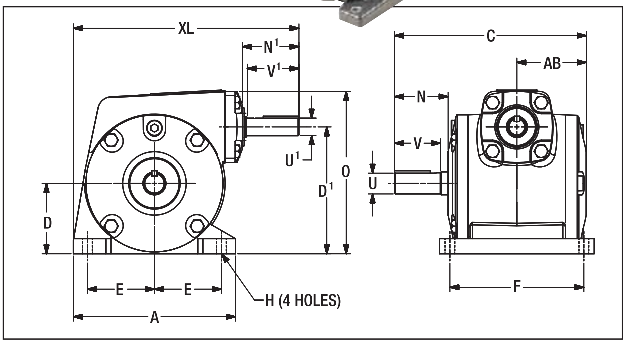
** @ 1750 rpm.*

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
88	1.0 in	20:1	0.25 hp	138.0 in-lb	710-20-G	**1L247**
	1.33 in	20:1	0.3 hp	197.0 in-lb	713-20-G	**1L262**
	1.54 in	20:1	0.5 hp	302.0 in-lb	715-20-G	**1L278**
	2.38 in	20:1	1.5 hp	948 in-lb	724-20-G	**1L341**
117	1.54 in	15:1	0.75 hp	353.0 in-lb	715-15-G	**1L279**
	2.38 in	15:1	2 hp	990 in-lb	724-15-G	**1L342**
	2.62 in	15:1	2 hp	994 in-lb	726-15-G	**1L353**
175	1.54 in	10:1	1 hp	330.0 in-lb	715-10-G	**1L280**
	1.75 in	10:1	1.5 hp	499 in-lb	718-10-G	**1L301**
	2.38 in	10:1	2 hp	672 in-lb	724-10-G	**1L345**
	2.62 in	10:1	3 hp	1,024 in-lb	726-10-G	**1L354**
350	1.54 in	5:1	1.5 hp	254.0 in-lb	715-5-G	**1L281**
	1.75 in	5:1	2 hp	338.0 in-lb	718-5-G	**1L302**
	2.06 in	5:1	2 hp	338.0 in-lb	721-5-G	**1L310**
	2.38 in	5:1	3 hp	508 in-lb	724-5-G	**1L346**
	2.62 in	5:1	3 hp	508 in-lb	726-5-G	**1L355**

Worm Center Distance	Base Width	Base Length	Mfr. Model	Item No.
Cast Iron Mounting Bases, Horizontal				
1.0 in	3.69 in	4.63 in	87874	**4NY17**
1.33 in	4.19 in	5.38 in	56437	**4YA78**
1.54 in	5.44 in	6.44 in	56438	**4YA79**
1.75 in	5.69 in	7.0 in	56439	**4YA80**
2.06 in	5.94 in	7.75 in	56440	**4YA81**
2.38 in	6.19 in	8.5 in	56441	**4YA82**
2.62 in	6.66 in	9.63 in	56442	**4YA83**

Description	Mfr. Model	Item No.
Gear Oil		
Synthetic Gear Oil, H1 Food Grade, 1 qt	65159	**34K212**

2Z306



Indirect-Drive Right-Angle Single-Shaft Continuous-Duty Speed Reducers

Dayton

- 2" worm center distance
- 700 lb. overhung load
- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Double-lip oil seals on input and output shafts; spring-loaded inner lip

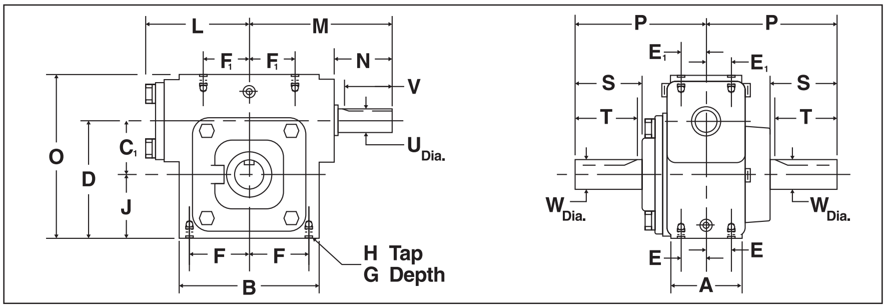
For high-torque, low-speed applications. Tapered roller bearings. Hardened steel worm gear. Forged bronze worm wheel.

Dimensions (in.)															
A	C	D	D1	E	F	H	N	N1	O	U	U1	V	V1	AB	XL
5.75	6.79	2.5	4.5	2.38	4.75	0.34	1.89	2	5.81	0.7500-0.7490	0.6250-0.6245	1.62	1.88	2.46	8

Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30	58:1	0.3 hp	285.0 in-lb	**2Z306**
45	39:1	0.5 hp	337.0 in-lb	**2Z307**
67	26:1	0.75 hp	385.0 in-lb	**2Z308**
96	18:1	1 hp	360.0 in-lb	**2Z309**
157	11:1	1 hp	302.0 in-lb	**2Z310**

** @ 1725 rpm.*

4GAX8



Indirect-Drive Right-Angle Double-Shaft Speed Reducers and Bases

WINSMITH HIGH QUALITY SPEED REDUCERS

- Interchangeable with Winsmith XDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle 460 synthetic lubricant

Black coating system is scratch-resistant and suitable for washdown and outdoor applications. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas. Exceeds ASTM B-117, 1000 hour salt spray test.

Reducer Model	Dimensions														Shaft Dimensions: Input Shaft				Shaft Dimensions: Output Shaft			
	A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	M	O	P	U**	N	V	Keyway	W**	S	T	Keyway
E13XWNS	2.00"	3.88"	1.33"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5⁄16-18"	1.75"	2.83"	4.12"	4.33"	4.00"	0.625"	1.81"	1.63"	0.19 x 0.09"	0.750"	2.06"	1.88"	0.19 x 0.09"
E20XWNS	2.38"	5.25"	2.00"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3⁄8-16"	2.13"	3.44"	5.00"	5.63"	4.75"	0.750"	2.19"	1.75"	0.19 x 0.09"	1.000"	2.56"	2.31"	0.25 x 0.13"
E26XWNS	3.13"	5.88"	2.63"	5.75"	1.13"	1.13"	2.44"	2.44"	0.69"	½-13"	3.13"	4.50"	6.50"	7.88"	5.50"	1.000"	2.75"	2.38"	0.25 x 0.13"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30XWNS	3.50"	6.62"	3.00"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	½-13"	3.50"	4.63"	7.00"	9.00"	5.88"	1.000"	3.06"	2.38"	0.25 x 0.13"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35XWNS	3.75"	7.69"	3.50"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5⁄8-11"	4.00"	5.06"	7.38"	10.13"	7.00"	1.000"	2.31"	2.50"	0.25 x 0.13"	1.750"	3.75"	3.63"	0.38 x 0.19"

*** Shaft diameter tolerance +0.000, -0.001.*

Nominal Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Input HP	Max. Output Torque	Mfr. Model	Item No.
29	2.0 in	650 lb	60:1	0.3 hp	528 in-lb	E20XWNS†	**4GAX8**
	2.63 in	1,025 lb	60:1	0.75 hp	1,268 in-lb	E26XWNS†	**4GAX9**
	3.0 in	1,350 lb	60:1	1 hp	1,766 in-lb	E30XWNS†	**4GAZ1**
35	2.0 in	650 lb	50:1	0.5 hp	706 in-lb	E20XWNS†	**4GAZ2**
	3.0 in	1,350 lb	50:1	1.5 hp	2,305 in-lb	E30XWNS†	**4GAZ3**
43	1.33 in	290 lb	40:1	0.25 hp	256.0 in-lb	E13XWNS†	**4GAZ4**
	2.0 in	650 lb	40:1	0.5 hp	585 in-lb	E20XWNS†	**4GAZ5**
	2.63 in	1,025 lb	40:1	1 hp	1,223 in-lb	E26XWNS†	**4GAZ6**
	3.0 in	1,350 lb	40:1	2 hp	2,516 in-lb	E30XWNS†	**4GAZ7**
58	1.33 in	290 lb	30:1	0.3 hp	276.0 in-lb	E13XWNS†	**4GAZ8**
	2.0 in	650 lb	30:1	0.75 hp	687 in-lb	E20XWNS†	**4GAZ9**
	2.63 in	1,025 lb	30:1	1.5 hp	1,427 in-lb	E26XWNS†	**4GCA1**
	3.0 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30XWNS†	**4GCA2**
86	1.33 in	290 lb	20:1	0.3 hp	202.0 in-lb	E13XWNS†	**4GCA3**
	2.0 in	650 lb	20:1	1 hp	650 in-lb	E20XWNS†	**4GCA4**
	2.63 in	1,025 lb	20:1	2 hp	1,322 in-lb	E26XWNS†	**4GCA5**
	3.0 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30XWNS†	**4GCA6**
115	1.33 in	290 lb	15:1	0.5 hp	238.0 in-lb	E13XWNS†	**4GCA7**
	2.0 in	650 lb	15:1	1.5 hp	749 in-lb	E20XWNS†	**4GCA8**
	3.0 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30XWNS†	**4GCA9**
	3.5 in	2,130 lb	15:1	5 hp	2,542 in-lb	E35XWNS†	**4GCC1**
172	1.33 in	290 lb	10:1	0.75 hp	248.0 in-lb	E13XWNS†	**4GCC2**
	2.0 in	650 lb	10:1	2 hp	687 in-lb	E20XWNS†	**4GCC3**
	3.0 in	1,298 lb	10:1	5 hp	1,722 in-lb	E30XWNS†	**4GCC4**
345	1.33 in	290 lb	5:1	1 hp	171.0 in-lb	E13XWNS†	**4GCC5**
	2.0 in	572 lb	5:1	3 hp	518 in-lb	E20XWNS†	**4GCC6**
	3.0 in	1,116 lb	5:1	7.5 hp	1,301 in-lb	E30XWNS†	**4GCC7**

** @ 1750 rpm. † To complete Mfr. Model No., add Nominal Ratio.*

Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern Length	Base Mounting Hole Pattern Width	Base Thickness	Item No.
Top Bases					
1.33 in	0.41 in	4.0 in	2.5 in	0.25 in	**1L382**
1.75 in	0.41 in	4.0 in	3.5 in	0.5 in	**1L402**
2 in	0.41 in	4.0 in	3.5 in	0.25 in	**1L383**
2.38 in	0.56 in	5.75 in	4.5 in	0.75 in	**1L399**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	**1L397**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	**1L396**
Top and Bottom Base					
3 in	0.56 in	6.5 in	5.25 in	0.5 in	**1L381**
Bottom Bases					
1.33 in	0.41 in	4.0 in	2.5 in	0.375 in	**1L379**
1.75 in	0.41 in	3.81 in	3.5 in	0.5 in	**1L401**
2 in	0.41 in	3.81 in	3.5 in	0.5 in	**1L380**
2.38 in	0.56 in	5.75 in	4.5 in	0.625 in	**1L400**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	**1L398**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	**1L395**

2Z932

56C-Face Parallel-Shaft Speed Reducers

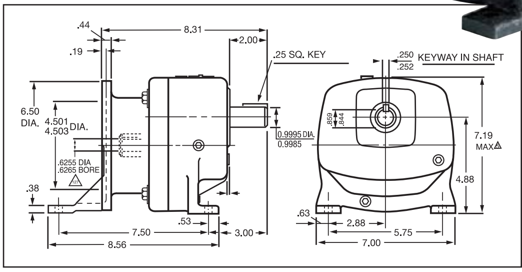
Dayton

- 660 lb. overhung load
- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Spring-loaded double lip seals on input and output shaft

Precision machined cast-iron housing for accurate alignment of gears. Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Input shaft is ball bearing supported. Output shaft has deep-grooved ball bearings.

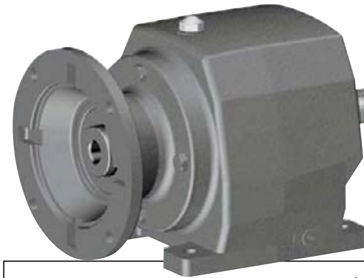
Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30	57.5:1	0.5 hp	955 in-lb	**2Z932**
44	39:1	0.5 hp	651 in-lb	**2Z933**
60	29:1	0.5 hp	478 in-lb	**2Z934**
91	19:1	0.5 hp	326.0 in-lb	**2Z935**

*** @ 1725 rpm.***



C-Face Parallel-Shaft Speed Reducers

Boston Gear



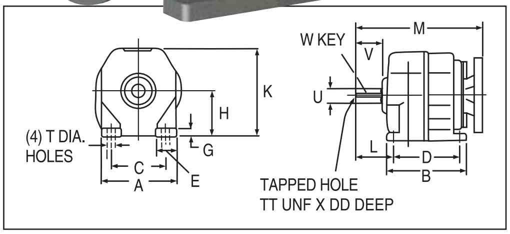
1F880

- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212

Powdered epoxy paint. Dimensionally interchangeable with SEW Eurodrive inline helical reducers. Ratios up to 71:1 in only 2 stages; increases efficiency and reduces case size.

Nominal Output RPM*	NEMA Frame	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
24	56C	1,600 lb	71:1	1 hp	2,303 in-lb	F862B-71K-B5-M1	**1F828**
	56C	770 lb	71:1	0.5 hp	1,186 in-lb	F842B-71K-B5-M1	**1F846**
27	140TC/180C	1,360 lb	63:1	1.5 hp	3,027 in-lb	F862B-63K-B7-M1	**1F830**
31	56C	1,360 lb	56:1	1 hp	2,018 in-lb	F862B-56K-B5-M1	**1F832**
	56C	770 lb	56:1	0.5 hp	970 in-lb	F842B-56K-B5-M1	**1F850**
35	56C	770 lb	50:1	0.75 hp	1,280 in-lb	F842B-50K-B5-M1	**1F852**
38	56C	770 lb	45:1	0.75 hp	1,180 in-lb	F842B-45K-B5-M1	**1F854**
48	56C	770 lb	36:1	1 hp	1,254 in-lb	F842B-36K-B5-M1	**1F856**
62	56C	620 lb	28:1	1 hp	994 in-lb	F842B-28K-B5-M1	**1F858**
	56C	385 lb	28:1	0.5 hp	491 in-lb	F832B-28K-B5-M1	**1F876**
79	140TC/180C	620 lb	22:1	1.5 hp	1,158 in-lb	F842B-22K-B7-M1	**1F860**
	56C	385 lb	22:1	0.75 hp	574 in-lb	F832B-22K-B5-M1	**1F878**
97	140TC/180C	620 lb	18:1	2 hp	1,192 in-lb	F842B-18K-B7-M1	**1F862**
	56C	385 lb	18:1	1 hp	483 in-lb	F832B-18K-B5-M1	**1F880**

*** @ 1725 rpm.***



Reducer Model	Dimensions A	B	C	D	E	G	H	K	L	U	V	TT (UNF)	DD (DEEP)	M 56C	M 140TC	M 180TC	M 210TC	W - Key SQ	W - Key Length
F832B	5.44"	4.33"	4.33"	3.35"	1.05"	0.48"	2.95"	5.79"	2.28"	0.75"	1.57"	0.25"	0.63"	9.82"	9.82"	10.65"	—	0.19"	1.28"
F842B	5.71"	6.30"	4.33"	5.12"	1.48"	0.67"	3.54"	6.99"	2.95"	1.00"	1.97"	0.25"	0.63"	10.73"	10.73"	11.55"	—	0.25"	1.75"
F862B	7.48"	7.87"	5.31"	6.50"	2.19"	0.81"	4.53"	9.06"	3.54"	1.25"	2.36"	0.38"	0.87"	12.26"	12.26"	14.61"	14.61"	0.25"	2.00"

BISON

56C-Face Parallel-Shaft Speed Reducers

35FT35

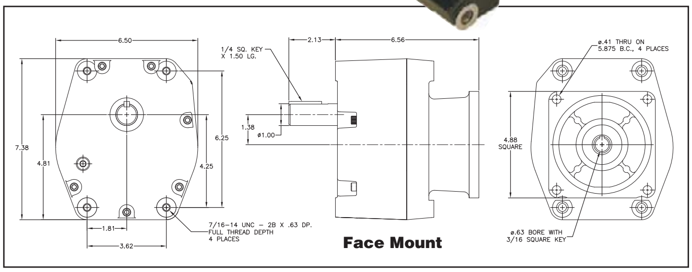
Provide the power required for applications in many different industries. Designed with a precision machined die-cast aluminum housing, these reducers can be aligned seamlessly to drive most OEM equipment. Equipped with high quality helical and spur gearing. Factory lubricated for life.

Note: Additional sizes are available on Grainger.com.

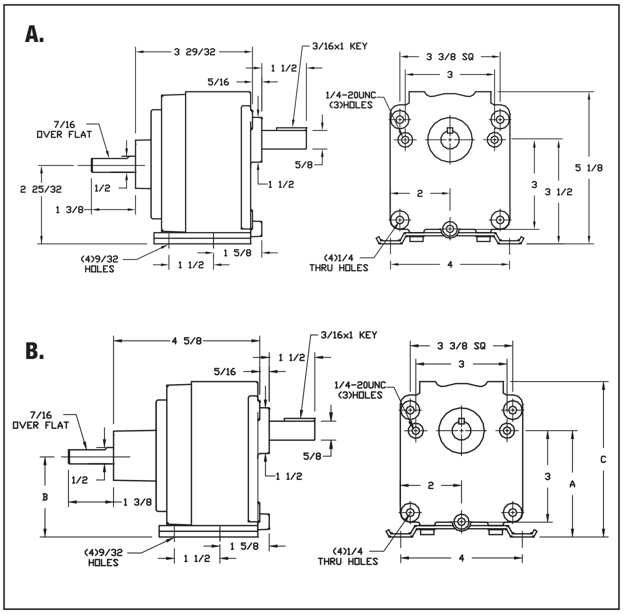
Item	Mfr. Model	Item No.
Mounting Brackets		
Mounting L Bracket	P125-880-0003	**35FT55**
Mounting Footplate	P125-880-0004	**35FT56**

Nom. Output RPM*	Overhung Load	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
12	1,383 lb	142.9:1	3	0.25 hp	992 in-lb	060-881-2143	**35FT53**
22	1,165 lb	79:1	3	0.5 hp	1,195 in-lb	060-881-2079	**35FT51**
60	838 lb	27.8:1	3	1 hp	1,137 in-lb	060-881-2029	**35FT45**
97	680 lb	17.8:1	2	1.25 hp	902 in-lb	060-881-2018	**35FT43**
253	506 lb	6.8:1	2	1.5 hp	399.0 in-lb	060-881-2007	**35FT39**
339	467 lb	5:1	2	1.5 hp	275.0 in-lb	060-881-2005	**35FT37**
457	425 lb	3.8:1	2	1.5 hp	204.0 in-lb	060-881-2004	**35FT35**

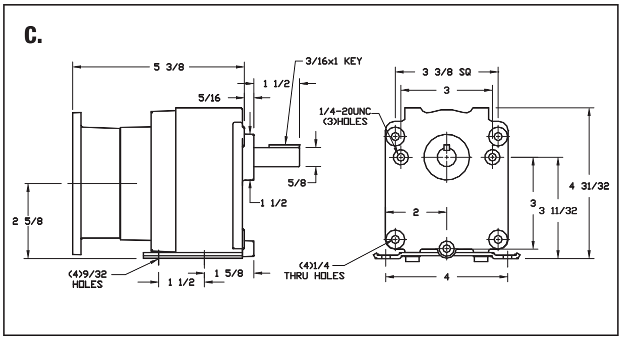
*** @ 1725 rpm.***



A. and B.
Indirect Drive



C.
42CZ/48C-Face



Dayton®

Indirect-Drive and 42CZ/48C-Face Parallel-Shaft Speed Reducers with Base

- All-position mounting using face, base, and top
- Shipped with heavy-duty SAE 80W-90 oil lubricant in gearcase
- Spring-loaded lip oil seals on input and output shafts

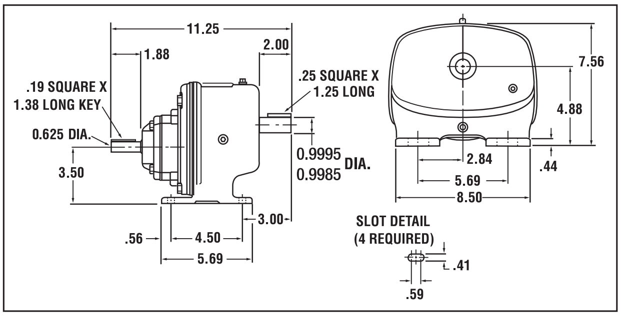
Base allows high or low positioning of output shaft; face-mounting holes on output side of reducer. Heat-treated steel pinion with helical first stage gearing. Heavy-duty needle and ball bearings with thrust balls. Die-cast aluminum gearcase housing.

Item No.	Key	Dimensions (in.) A	B	C
4Z498	B	3.328	2.625	4.953
4Z499 to 4Z503	B	3.718	3.000	5.344

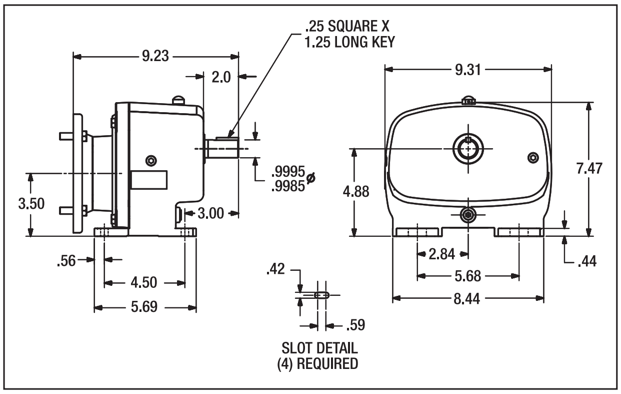
Key	Nom. Output RPM*	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers						
A	15	118.5:1	3	0.05 hp	200.0 in-lb	**2Z819**
A	33	52.9:1	2	0.1 hp	175.0 in-lb	**2Z820**
A	72	23.4:1	2	0.1667 hp	100.0 in-lb	**2Z821**
B	19	92:1	3	0.1 hp	290.0 in-lb	**4Z498**
B	34	51:1	3	0.1667 hp	260.0 in-lb	**4Z499**
B	48	36:1	3	0.25 hp	295.0 in-lb	**4Z500**
B	61	28.1:1	2	0.25 hp	225.0 in-lb	**4Z501**
B	90	19:1	2	0.3333 hp	225.0 in-lb	**4Z502**
B	135	13:1	2	0.3333 hp	175.0 in-lb	**4Z503**
42CZ/48C-Face Speed Reducers †						
C	20	87.8:1	3	0.1 hp	254.0 in-lb	**1L515**
C	30	58.3:1	3	0.125 hp	278 in-lb	**1L537**
C	49	35.8:1	3	0.25 hp	295.0 in-lb	**1L514**
C	62	28.1:1	2	0.25 hp	240.0 in-lb	**1L513**
C	77	22.7:1	2	0.25 hp	184.0 in-lb	**1L512**
C	92	19.1:1	2	0.3333 hp	226.0 in-lb	**1L511**
C	138	12.7:1	2	0.3333 hp	176 in-lb	**1L516**

***** @ 1725 rpm. Maximum input speed is 1750 rpm. † C-Face units contain a 0.500" dia. bore with 0.125 x 0.062" keyway.***

Indirect-Drive



56C-Face



Dayton®

Indirect-Drive and 56C-Face Parallel-Shaft Speed Reducers

- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Spring-loaded double-lip seals on input and output shafts

Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Ball bearing-supported input shaft; deep-grooved ball bearing output shaft. Cast-aluminum gearcase.

Nom. Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers					
20	1,192 lb	87:1	0.3 hp	998 in-lb	**4Z856**
30	885 lb	57.5:1	0.5 hp	998 in-lb	**4Z857**
45	863 lb	38.5:1	0.5 hp	665 in-lb	**4Z858**
56	712 lb	31:1	0.75 hp	816 in-lb	**4Z859**
100	773 lb	17.5:1	0.75 hp	454 in-lb	**4Z860**
140	709 lb	12.5:1	1 hp	427 in-lb	**4Z861**
56C-Face Speed Reducers					
20	1,192 lb	87:1	0.3 hp	998 in-lb	**4Z720**
30	885 lb	57.5:1	0.5 hp	998 in-lb	**4Z614**
45	863 lb	38.5:1	0.5 hp	665 in-lb	**4Z615**
56	712 lb	31:1	0.75 hp	816 in-lb	**4Z616**
100	773 lb	17.5:1	0.75 hp	454 in-lb	**4Z617**
140	709 lb	12.5:1	1 hp	427 in-lb	**4Z719**

***** @ 1725 rpm.***

Double C-Face Magnetic Disc Brakes

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"
- 60/50 Hz
- Mounting: horizontal

Direct-acting spring-set brakes use 1 moving part to engage and hold load under power-off conditions. Brake is designed to convert C-face motors and gearmotors to brake motors or brake gearmotors. Models with 56C/140TC NEMA frame have ⅞" O.D. x ⅝" I.D. shaft bushing.

Standard Dripproof—Used in indoor applications such as conveyors and door openers.

Waterproof/Dust-tight—Used in indoor and outdoor applications where dirt and moisture are present.

Washdown—Used in food and dairy applications. Comply with 3A dairy standards pertaining to nonproduct-contact surfaces and with NEMA DEF.MG1-1.26.6 for waterproof machines. USDA-approved white epoxy paint. BISSC Certified.

Dayton®

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

6K233

1L388

Static Torque	NEMA Frame	Max. HP @ 1725 rpm	Max. HP @ 3450 rpm	STANDARD DRIPPROOF Item No.	WATERPROOF/ DUST-TIGHT Item No.	WASHDOWN Item No.
115/208-230V AC Or 110/208-220V AC, 60/50 Hz						
3 ft.-lb.	56C	1 hp	2 hp	**6K233**	**2LYU1**	**1L388**
6 ft.-lb.	56C/140TC	2 hp	3 hp	**3M366**	**2LYU2**	**1L389**
115/208-230V AC Or 95/174-190V AC, 60/50 Hz						
10 ft.-lb.	56C/140TC	3 hp	5 hp	**2LYT6**	**2LYU3**	**2LYU7**
208-230/460V AC Or 174-190/380V AC, 60/50 Hz						
3 ft.-lb.	56C	1 hp	2 hp	**2LYT7**	**2LYU4**	**2LYU8**
6 ft.-lb.	56C/140TC	2 hp	3 hp	**2LYT8**	**2LYU5**	**2LYU9**
10 ft.-lb.	56C/140TC	3 hp	5 hp	**2LYT9**	**2LYU6**	**2LYV1**

Dayton®

End-Mount Standard Dripproof Magnetic Disc Brakes

5URA0

- Service factor: 1.4
- Max. ambient: 40°C
- Coil lead length: 18"
- 60/50 Hz
- Mounting: horizontal
- Interchangeable with Stearns Series 56,000

Direct-acting spring-set brakes have single-point air gap adjustment, factory set for plug-and-run assembly for easy maintenance. Have no linkage to wear, which helps extend service life. Knockout hole in cover accommodates through-shaft brake motors with fans. Suitable for use in conveyors, packaging machines, hoist end-trucks, security/toll booth gates, and sorting machines.

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

Static Torque	NEMA Frame	HP @ 1725 rpm	HP @ 3450 rpm	Item No.
115-208/230V AC or 95/174-190V AC, 60/50 Hz				
3 ft.-lb.	56C	½ hp	1 hp	**5URA0**
6 ft.-lb.	56C	1 hp	2 hp	**5URA1**
10 ft.-lb.	143/145TC	2 hp	3 hp	**5URA2**
15 ft.-lb.	143/145TC	3 hp	5 hp	**5URA3**
208-230/460V AC or 174-190/380V AC, 60/50 Hz				
3 ft.-lb.	56C	½ hp	1 hp	**5URA4**
6 ft.-lb.	56C	1 hp	2 hp	**5URA5**
10 ft.-lb.	143/145TC	2 hp	3 hp	**5URA6**
15 ft.-lb.	143/145TC	3 hp	5 hp	**5URA7**

Dayton®

Magnetic Disc Brakes, 1- and 2-Disc Design

4Z447

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"

1-Disc—Includes replacement fan and endbell for converting TEFC gearmotors to brake gearmotors. To see which gearmotors use this brake, go to Grainger.com.

2-Disc—Factory set to provide ¾ ft.-lb. stopping and holding torque. To reduce torque to ⅜ ft.-lbs., remove 1 disc. Use with shaded-pole, split-phase and permanent split-capacitor gearmotors.

- Max. ¼ HP for ¾ ft.-lb., 2-disc use
- Max. $^{1}/_{15}$ HP for ⅜ ft.-lb., 1-disc use

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

5X400

Description	Static Torque	Item No.
1-Disc		
115/230V AC, 60 Hz	1.5	**4Z447**
230/460V AC, 60 Hz	1.5	**2LYV2**
2-Disc		
115V AC, 60 Hz	0.375 ft-lb, 0.75 ft-lb	**5X400**

Warner® Electric

C-Face Clutches and Brakes

Patented Autogaps technology allows clutch and brake to automatically adjust for wear, requiring no lubrication or maintenance.

Packaged NEMA C-face clutch/brake modules offer high-performance starting and stopping of loads, with the motor running, in an easy-to-install package. Mount to NEMA C-face motor or between motor and reducer. Power on engagement of the brake and clutch. Use the HP vs. Shaft Speed Selection Table to select the proper unit for your application.

Note: Brake is not intended for accurate positioning applications or vertical holding applications, such as vertical conveyors or hoists.

Clutch/Brake Controls—Mount on standard module conduit boxes. Green LED indicates power to clutch; red LED indicates power to brake.

HP vs. SHAFT SPEED SELECTION TABLE
CAUTION: RPM refers to shaft speed at clutch or brake.
Based on 2.75 service factor.

RPM x 100 HP	2	4	6	8	10	12	15	18	20	24	30	36
¼												
⅓												
½										16 Ft.-Lbs. Torque		
¾												
1												
1½						30 Ft.-Lbs. Torque						
2												
3						95 Ft.-Lbs. Torque (210 Series)						
5												
7½									95 Ft.-Lbs. Torque			
10									(215 Series)			

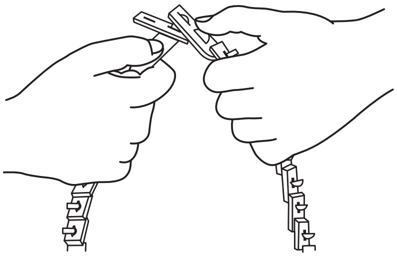
2DBN1

2DBK6

Series	Static Torque	Shaft Dia.	Enclosure	Max. rpm	NEMA/IEC Frame	Length	Width	Mfr. Model	Item No.
C-Face Brakes									
24 Volts (DC)									
EM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 ¾ in	EM180-20-24	**2DBN6**
90 Volts (DC)									
EM-50	16	⅝ in	Vented	3,600 RPM	56C	5.1875 in	6 ¾ in	EM50-20-90	**2DBN1**
EM-100	30	⅝ in	Vented	3,600 RPM	56C	5.1875 in	6 ¾ in	EM100-20-90	**2DBN3**
EM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 ¾ in	EM180-20-90	**2DBN5**
C-Face Clutches									
90 Volts (DC)									
UM-50	16	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM50-1040	**2DBL5**
UM-100	30	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM100-1040	**2DBL6**
Clutch/Brakes									
90 Volts (DC)									
UM-50	16	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM50-1020-90	**2DBK6**
UM-100	30	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM100-1020-90	**2DBK8**
UM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	6.75 in	6 ¾ in	UM180-1020-90	**2DBL1**

Description	Length	Width	Mfr. Model	Item No.
Clutch/Brake Controls, For Use with All Series 90V Clutch/Brakes				
120V AC Input, 90V DC Output	3 ⅓ in	2 ³⁄₁₆ in	CBC-150-1	**2DBN9**
220-240VAC Input, 90V DC Output	3 ⅓ in	2 ³⁄₁₆ in	CBC-150-2	**2DBP1**
Motor Mounting Kits				
For Use With Series UM-50/UM-100	11 in	9 ¼ in	5370-101-078	**2DBP2**
For Use With Series UM-180	11 in	9 ¼ in	5370-101-079	**2DBP3**
Accessories				
Cover Kit, to Convert Vented Housing to Enclosed Housing, For Use With Series UM-50/UM-100/UM-180	2 ²⁹⁄₃₂ in	2 ¹³⁄₁₆ in	5370-101-076	**2DBP5**
Conduit Box Kit, For Use with Series 50, 100, and 180 Models	3 ¼ in	2 ³⁄₁₆ in	5370-101-042	**2DBP6**

48ZY73



401P91

49YL74

49YL81

Fenner Drives® POWERTWIST DRIVE POWERTWIST

Premium Link Belts

- Composite polyurethane/polyester construction
- Superior resistance to oil, water, and chemicals
- Temp. range: -40° to 240°F

Belts can be easily installed without dismantling drives.

PowerTwist Drive V-Belts—This long-lasting, permanent upgrade for V-belt drives offers reduced drive vibration and fit-and-forget installation with no need to re-tension. The belts assemble to any length so you need not stock multiple belt sizes.

PowerTwist Wedge Belts—Heavy-duty abrasive-resistant belts are a drop-in upgrade for your rubber wedge belts in big shock-loaded applications with multi-belt drives. Easily adjust to any length within seconds.

PowerTwist Standard V-Belts—Quick replacement for failed rubber V-belts can be assembled to any length so you always have the right belt on hand.

PowerTwist Roller Drive Belts—Quickly and permanently replace belts on live roller conveyors. Drop-in replacement for B section V-belts on any live roller conveyor or 9⁄16" round profile belts on Rapistan Conveyor Systems.

Outside L	V-Belt Section	Top Width	Color	Mfr. Model	Item No.
PowerTwist Drive V-Belts					
25 ft	3L	⅜ in	Red	0405010	**48ZY71**
	4L, A	½ in	Red	0405030	**48ZY73**
	5L, B	⅝ in	Red	0405050	**48ZY75**
	C	⅞ in	Red	0405070	**48ZY77**
100 ft	3L	⅜ in	Red	0408010	**48ZY72**
	4L, A	½ in	Red	0408030	**48ZY74**
	5L, B	⅝ in	Red	0408050	**48ZY76**
	C	⅞ in	Red	0408070	**48ZY78**
PowerTwist Wedge Belts					
25 ft	3V	⅜ in	Blue	0460025	**401P89**
	5V	⅝ in	Blue	0460125	**401P91**
100 ft	3V	⅜ in	Blue	0460000	**401P90**
	5V	⅝ in	Blue	0460100	**401P92**

PowerTwist Standard Round Belts—Round-profile belts drop right into your existing equipment and are extremely flexible, making them ideally suited for use with small pulley/idler diameters. Replace round rubber or urethane belts.

Outside L	V-Belt Section	Top Width	Color	Mfr. Model	Item No.
PowerTwist Standard V-Belts					
5 ft	4L, A	½ in	Gray	0428035	**49YL73**
6 ft	5L, B	⅝ in	Gray	0428056	**49YL76**
25 ft	3L	⅜ in	Gray	0450025	**49YL71**
	4L, A	½ in	Gray	0450125	**49YL74**
	5L, B	⅝ in	Gray	0450225	**49YL77**
	C	⅞ in	Gray	0450325	**49YL79**
100 ft	3L	⅜ in	Gray	0450000	**49YL72**
	4L, A	½ in	Gray	0450100	**49YL75**
	5L, B	⅝ in	Gray	0450200	**49YL78**
	C	⅞ in	Gray	0450300	**49YL80**
PowerTwist Roller Drive V-Belts					
25 ft	B	⅝ in	Red	0410300-25	**19RU04**
100 ft	B	⅝ in	Red	0410300	**19RU05**

Overall Length	Dia.	Min. Pulley Dia.	Color	Mfr. Model	Item No.
PowerTwist Standard Round Belts					
25 ft	9⁄16 in	5 ⅝ in	Gray	0451225	**49YL81**
100 ft	9⁄16 in	5 ⅝ in	Gray	0451200	**49YL82**

3PEA7

3PEA8

Continental ContiTech

Electronic Alignment and Tension Diagnostic Tools

Laser Alignment Tool—Confirms horizontal and vertical sheave alignment. Designed for sheaves 60mm dia. or greater. CE Certified.

TensionRite Belt Frequency Meter—Optical sensor indicates belt tension. Use on all rubber compound belts. CE Certified.

Description	Includes	Item No.
Laser Alignment Tool	(2) Magnet Targets, AA Battery	**3PEA7**
TensionRite® Belt Frequency Meter	(4) AA Batteries, Calibration Tuning Fork, Protective Case	**3PEA8**

31CD50

BANDO

Tension Meter

Tension Master measures the vibration frequency of the actual belt, not the air around the belt, for a more accurate reading than competitive systems. The free downloadable app includes all the required belt parameters, requiring much less data input by the end user than other systems require. Can also be used to measure vibration frequency in any type of equipment. Includes tension meter, batteries, sensor, and adhesive pads.

Description	Mfr. Model	Item No.
Belt Tensioning Kit	BUI 4006	**31CD50**
Replacement Sensor with Cord	BUI 4009	**30NX23**
Replacement Adhesive Tabs, Pkg. of 30	BUI 4010	**30NX24**

Selection Guidelines

FOR DIRECT REPLACEMENT WHEN ORIGINAL BELT PART NUMBER IS AVAILABLE
Match ARPM (Association of Rubber Products Manufacturers) number/manufacturer's part number (from your existing V-belt), then make selection from the following pages. Dayton V-belts conform to ARPM standards.

WHEN ORIGINAL BELT PART NUMBER IS NOT AVAILABLE
When replacing V-belts with worn markings, use the belt cross-sections at the top of each page to identify the belt type. Belt length can be determined by using either V-Belt Rule 6AGK6 (sold separately on Grainger.com), or by using the Belt Length Formula calculation on this page.

ARPM Belt Size	BELT INTERCHANGE* BROWNING	CONTITECH/ GOODYEAR	GATES	DAYCO
3L, 4L, 5L	FHP	Fractional HP	Truflex	Durapower FHP
A, B, C	Super Gripbelts	Hy-T	Hi-Power	Super Blue Ribbon
AX, BX, CX	Gripnotch	Torque-Flex	Tri-Power	Gold Label Cog Belt
3VX, 5VX	358	HY-T Wedge	HY-T Wedge	Power Wedge Vee Cog-Belt

* Call 1-800-GRAINGER (472-4643) for assistance with cross-referencing specific part numbers.
Additional V-belt lengths are available on Grainger.com

Sheave Pitch Diameters

TO CALCULATE MOTOR SHEAVE PITCH DIAMETER
Multiply driven sheave rpm by driven sheave pitch diameter and divide by motor sheave rpm.

TO CALCULATE DRIVEN SHEAVE PITCH DIAMETER
Multiply motor sheave rpm by motor sheave pitch diameter and divide by driven sheave rpm.

FORMULA
(Motor Sheave P.D.) x (Motor Sheave rpm) = (Driven Sheave P.D.) x (Driven Sheave rpm)

V-Belt Length Formula

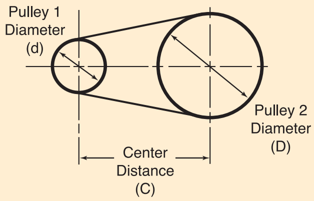
Dayton V-belts interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others.

BELT LENGTH FORMULA

exact / approximate

$$L = 2C + 1.57\,(D + d) + \frac{(D - d)^2}{4C}$$

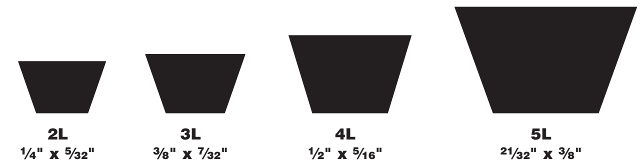
L = Pitch Length of Belt
C = Center Distance
D = Pitch Diameter of Large Sheave
d = Pitch Diameter of Small Sheave



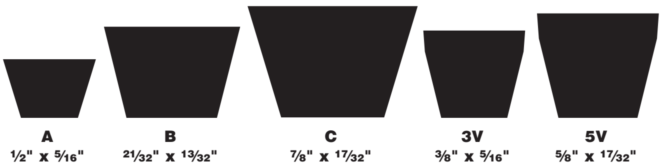
2L, 3L, 4L, and 5L Fractional Horsepower V-Belts

Dayton

All belts are oil- and heat-resistant. 3L, 4L, and 5L belts are static-conductive. 2L belts are cogged. These Dayton V-belts interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others. They are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).



Industry No.	Outside L	Item No.
2L (1/4" Top Width by 5/32" Thick)		
2L100	10 in	**13V770**
2L110	11 in	**13V771**
2L120	12 in	**13V772**
2L130	13 in	**13V773**
2L140	14 in	**13V774**
2L150	15 in	**13V775**
2L160	16 in	**13V776**
2L170	17 in	**13V777**
2L180	18 in	**13V778**
2L190	19 in	**13V779**
2L200	20 in	**13V780**
2L240	24 in	**13V781**
2L260	26 in	**13V782**
2L280	28 in	**13V783**
2L340	34 in	**13V784**
3L (3/8" Top Width by 7/32" Thick)		
3L110	11 in	**3GWD2**
3L120	12 in	**3GWD3**
3L130	13 in	**3GWD4**
3L140	14 in	**3GWD5**
3L150	15 in	**3L150**
3L160	16 in	**3L160**
3L170	17 in	**3L170**
3L180	18 in	**3L180**
3L190	19 in	**3L190**
3L200	20 in	**3L200**
3L210	21 in	**3L210**
3L220	22 in	**3L220**
3L230	23 in	**3L230**
3L240	24 in	**3L240**
3L250	25 in	**3L250**
3L260	26 in	**3L260**
3L270	27 in	**3L270**
3L280	28 in	**3L280**
3L290	29 in	**3L290**
3L300	30 in	**3L300**
3L310	31 in	**3L310**
3L320	32 in	**3L320**
3L330	33 in	**3L330**
3L340	34 in	**3L340**
3L350	35 in	**3L350**
3L360	36 in	**3L360**
3L370	37 in	**3L370**
3L380	38 in	**3L380**
3L390	39 in	**3L390**
3L400	40 in	**3L400**
3L410	41 in	**3L410**
3L420	42 in	**3L420**
3L430	43 in	**3L430**
3L440	44 in	**3L440**
3L (3/8" Top Width by 7/32" Thick) (Cont.)		
3L450	45 in	**3L450**
3L460	46 in	**3L460**
3L470	47 in	**3L470**
3L480	48 in	**3L480**
3L490	49 in	**3L490**
3L500	50 in	**3L500**
3L510	51 in	**3L510**
3L520	52 in	**3L520**
3L530	53 in	**3L530**
3L540	54 in	**3L540**
3L550	55 in	**3L550**
3L560	56 in	**3L560**
3L570	57 in	**3L570**
3L580	58 in	**3L580**
3L590	59 in	**3L590**
3L600	60 in	**3L600**
3L610	61 in	**3L610**
3L620	62 in	**13V785**
3L630	63 in	**13V786**
3L640	64 in	**13V787**
3L650	65 in	**13V788**
3L660	66 in	**13V789**
3L670	67 in	**13V790**
3L680	68 in	**13V791**
3L690	69 in	**13V792**
3L700	70 in	**13V793**
3L710	71 in	**13V794**
3L720	72 in	**13V795**
3L730	73 in	**13V796**
3L740	74 in	**13V797**
4L (1/2" Top Width by 5/16" Thick)		
4L150	15 in	**3GWD6**
4L160	16 in	**3GWD7**
4L170	17 in	**4L170**
4L180	18 in	**4L180**
4L190	19 in	**4L190**
4L200	20 in	**4L200**
4L210	21 in	**4L210**
4L220	22 in	**4L220**
4L230	23 in	**4L230**
4L240	24 in	**4L240**
4L250	25 in	**4L250**
4L260	26 in	**4L260**
4L270	27 in	**4L270**
4L280	28 in	**4L280**
4L290	29 in	**4L290**
4L300	30 in	**4L300**
4L310	31 in	**4L310**
4L320	32 in	**4L320**
4L330	33 in	**4L330**
4L (1/2" Top Width by 5/16" Thick) (Cont.)		
4L340	34 in	**4L340**
4L350	35 in	**4L350**
4L360	36 in	**4L360**
4L370	37 in	**4L370**
4L380	38 in	**4L380**
4L390	39 in	**4L390**
4L400	40 in	**4L400**
4L410	41 in	**4L410**
4L420	42 in	**4L420**
4L430	43 in	**4L430**
4L440	44 in	**4L440**
4L450	45 in	**4L450**
4L460	46 in	**4L460**
4L470	47 in	**4L470**
4L480	48 in	**4L480**
4L490	49 in	**4L490**
4L500	50 in	**4L500**
4L510	51 in	**4L510**
4L520	52 in	**4L520**
4L530	53 in	**4L530**
4L540	54 in	**4L540**
4L550	55 in	**4L550**
4L560	56 in	**4L560**
4L570	57 in	**4L570**
4L580	58 in	**4L580**
4L590	59 in	**4L590**
4L600	60 in	**4L600**
4L610	61 in	**4L610**
4L620	62 in	**4L620**
4L630	63 in	**4L630**
4L640	64 in	**4L640**
4L650	65 in	**4L650**
4L660	66 in	**4L660**
4L670	67 in	**4L670**
4L680	68 in	**4L680**
4L690	69 in	**4L690**
4L700	70 in	**4L700**
4L710	71 in	**4L710**
4L720	72 in	**4L720**
4L730	73 in	**4L730**
4L740	74 in	**4L740**
4L750	75 in	**4L750**
4L760	76 in	**4L760**
4L770	77 in	**4L770**
4L780	78 in	**4L780**
4L790	79 in	**4L790**
4L800	80 in	**4L800**
4L810	81 in	**3GWD8**
4L820	82 in	**4L820**
4L (1/2" Top Width by 5/16" Thick) (Cont.)		
4L830	83 in	**3GWD9**
4L840	84 in	**4L840**
4L850	85 in	**3GWE1**
4L860	86 in	**4L860**
4L870	87 in	**3GWE2**
4L880	88 in	**4L880**
4L890	89 in	**3GWE3**
4L900	90 in	**4L900**
4L910	91 in	**3GWE4**
4L920	92 in	**4L920**
4L930	93 in	**3GWE5**
4L940	94 in	**4L940**
4L950	95 in	**3GWE6**
4L960	96 in	**4L960**
4L970	97 in	**3GWE7**
4L980	98 in	**4L980**
4L990	99 in	**3GWE8**
4L1000	100 in	**3X543**
5L (21/32" Top Width by 3/8" Thick)		
5L230	23 in	**5L230**
5L240	24 in	**5L240**
5L250	25 in	**5L250**
5L260	26 in	**5L260**
5L270	27 in	**5L270**
5L280	28 in	**5L280**
5L290	29 in	**5L290**
5L300	30 in	**5L300**
5L310	31 in	**5L310**
5L320	32 in	**5L320**
5L330	33 in	**5L330**
5L340	34 in	**5L340**
5L350	35 in	**5L350**
5L360	36 in	**5L360**
5L370	37 in	**5L370**
5L380	38 in	**5L380**
5L390	39 in	**5L390**
5L400	40 in	**5L400**
5L410	41 in	**5L410**
5L420	42 in	**5L420**
5L430	43 in	**5L430**
5L440	44 in	**5L440**
5L450	45 in	**5L450**
5L460	46 in	**5L460**
5L470	47 in	**5L470**
5L480	48 in	**5L480**
5L490	49 in	**5L490**
5L500	50 in	**5L500**
5L510	51 in	**5L510**
5L520	52 in	**5L520**
5L (21/32" Top Width by 3/8" Thick) (Cont.)		
5L530	53 in	**5L530**
5L540	54 in	**5L540**
5L550	55 in	**5L550**
5L560	56 in	**5L560**
5L570	57 in	**5L570**
5L580	58 in	**5L580**
5L590	59 in	**5L590**
5L600	60 in	**5L600**
5L610	61 in	**5L610**
5L620	62 in	**5L620**
5L630	63 in	**5L630**
5L640	64 in	**5L640**
5L650	65 in	**5L650**
5L660	66 in	**5L660**
5L670	67 in	**5L670**
5L680	68 in	**5L680**
5L690	69 in	**5L690**
5L700	70 in	**5L700**
5L710	71 in	**5L710**
5L720	72 in	**5L720**
5L730	73 in	**5L730**
5L740	74 in	**5L740**
5L750	75 in	**5L750**
5L760	76 in	**5L760**
5L770	77 in	**5L770**
5L780	78 in	**5L780**
5L790	79 in	**5L790**
5L800	80 in	**5L800**
5L810	81 in	**3GWE9**
5L820	82 in	**5L820**
5L830	83 in	**3GWF1**
5L840	84 in	**5L840**
5L850	85 in	**3GWF2**
5L860	86 in	**5L860**
5L870	87 in	**3GWF3**
5L880	88 in	**5L880**
5L890	89 in	**3GWF4**
5L900	90 in	**5L900**
5L910	91 in	**3GWF5**
5L920	92 in	**5L920**
5L930	93 in	**3GWF6**
5L940	94 in	**5L940**
5L950	95 in	**3GWF7**
5L960	96 in	**5L960**
5L970	97 in	**3GWF8**
5L980	98 in	**5L980**
5L990	99 in	**3GWF9**
5L1000	100 in	**3X544**



Dayton

A, B, C, 3V, and 5V V-Belts

All belts are oil- and heat-resistant, and static-conductive, and interchange with brands such as Browning, Carlisle, ContiTech, Dayco, Gates, and Goodyear. These Dayton V-belts are built to matching specifications, so all belts of the same size are within the tolerences set by the ARPM (Association of Rubber Products Manufacturers).

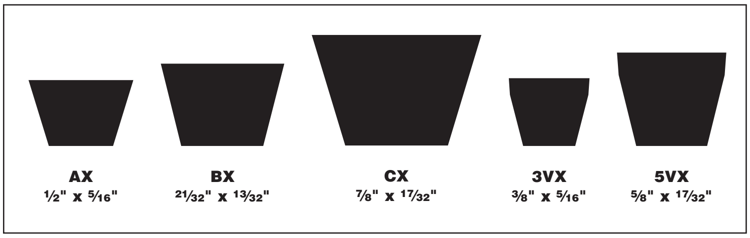
Industry No.	Outside L	Item No.
A (½" Top Width by 5⁄16" Thick)		
A18	20 in	3GWG1
A19	21 in	3GWG2
A20	22 in	3GWG3
A21	23 in	3GWG4
A22	24 in	3GWG5
A23	25 in	3GWG6
A24	26 in	3GWG7
A25	27 in	3GWG8
A26	28 in	3X697
A27	29 in	6A139
A28	30 in	6A140
A29	31 in	6A141
A30	32 in	1A095
A31	33 in	3X654
A32	34 in	6A142
A33	35 in	5X995
A34	36 in	6A143
A35	37 in	3X620
A36	38 in	6A144
A37	39 in	6A145
A38	40 in	3X545
A39	41 in	6A146
A40	42 in	1A109
A41	43 in	1A100
A42	44 in	3X621
A43	45 in	3X699
A44	46 in	6A147
A45	47 in	1A105
A46	48 in	3X471
A47	49 in	1A098
A48	50 in	3X472
A49	51 in	1A096
A50	52 in	3X546
A51	53 in	3X473
A52	54 in	3X702
A53	55 in	6X565
A54	56 in	3X700
A55	57 in	3X622
A56	58 in	3X704
A57	59 in	6A148
A58	60 in	3X547
A59	61 in	6A149
A60	62 in	3X623
A61	63 in	6A150
A62	64 in	3X624
A63	65 in	5A290
A64	66 in	3X625
A65	67 in	5A291
A66	68 in	6X569
A67	69 in	6L182
A68	70 in	3X626
A69	71 in	6L183
A70	72 in	6A151
A71	73 in	3X627
A72	74 in	5A292
A73	75 in	6L184
A74	76 in	5A293
A75	77 in	3X628
A76	78 in	6L185
A77	79 in	6L186
A78	80 in	6X570
A79	81 in	6L187
A80	82 in	3X629
A81	83 in	6L188
A82	84 in	6L189
A83	85 in	6L190
A84	86 in	5A294
A85	87 in	3X630
A86	88 in	6L318
A87	89 in	6L191
A88	90 in	5A295
A89	91 in	6L192
A90	92 in	3X631
A91	93 in	6L193
A92	94 in	6A152
A93	95 in	6L194
A94	96 in	6L195
A95	97 in	6L196
A96	98 in	3X632
A97	99 in	6L197
A98	100 in	6L198
A100	102 in	6L199
A101	103 in	3GWG9
A102	104 in	3GWH1
A103	105 in	6L200
A (½" Top Width by 5⁄16" Thick) (Cont.)		
A105	107 in	3X351
A106	108 in	3GWH2
A110	112 in	6L201
A112	114 in	3X352
A115	117 in	3GWH3
A120	122 in	3X371
A128	130 in	3X633
A133	135 in	3GWH4
A136	138 in	6L202
A144	146 in	6L203
A152	154 in	45A157
A158	160 in	6L204
A173	175 in	6L205
A180	182 in	6L206
B (21⁄32" Top Width by 13⁄32" Thick)		
B25	28 in	3GWH5
B26	29 in	3GWH6
B27	30 in	3GWH7
B28	31 in	6L207
B29	32 in	6L208
B30	33 in	1A103
B31	34 in	6L209
B32	35 in	6A153
B33	36 in	1A099
B34	37 in	6A154
B35	38 in	3X634
B36	39 in	6A155
B37	40 in	6L210
B38	41 in	3X635
B39	42 in	6L211
B40	43 in	3X698
B41	44 in	6A156
B42	45 in	3X636
B43	46 in	1A107
B44	47 in	6X571
B45	48 in	1A094
B46	49 in	3X637
B47	50 in	1A106
B48	51 in	3X474
B49	52 in	1A097
B50	53 in	3X475
B51	54 in	3X638
B52	55 in	6X874
B53	56 in	3X611
B54	57 in	6X875
B55	58 in	3X612
B56	59 in	6X876
B57	60 in	3X706
B58	61 in	6X998
B59	62 in	1A108
B60	63 in	3X639
B61	64 in	1A104
B62	65 in	3X613
B63	66 in	3X703
B64	67 in	3X614
B65	68 in	6X999
B66	69 in	3X640
B67	70 in	6A157
B68	71 in	3X641
B69	72 in	1A102
B70	73 in	5X475
B71	74 in	3X642
B72	75 in	3X615
B73	76 in	3X705
B74	77 in	6A158
B75	78 in	3X643
B76	79 in	6A159
B77	80 in	6A160
B78	81 in	3X644
B79	82 in	6A161
B80	83 in	5X476
B81	84 in	3X645
B82	85 in	1A101
B83	86 in	3X646
B84	87 in	6A162
B85	88 in	3X647
B86	89 in	6A163
B87	90 in	6A164
B88	91 in	3X701
B89	92 in	6L212
B90	93 in	3X648
B91	94 in	6L213
B92	95 in	6A165
B93	96 in	5X477
B94	97 in	6L214
B (21⁄32" Top Width by 13⁄32" Thick) (Cont.)		
B95	98 in	5X478
B96	99 in	5X479
B97	100 in	3X649
B98	101 in	6L215
B99	102 in	6A166
B100	103 in	5X480
B101	104 in	6L216
B102	105 in	3GWH8
B103	106 in	5X481
B104	107 in	3GWH9
B105	108 in	3X650
B106	109 in	13V798
B107	110 in	3GXD8
B108	111 in	5X482
B110	113 in	3GXD9
B111	114 in	6L217
B112	115 in	3X353
B114	117 in	3GWJ1
B115	118 in	3GWJ2
B116	119 in	6A167
B117	120 in	3GWJ3
B118	121 in	3GWJ4
B120	123 in	3X354
B122	125 in	3GWJ5
B123	126 in	3GWJ6
B124	127 in	6A168
B126	129 in	3GWJ7
B128	131 in	3X372
B130	133 in	3GWJ8
B131	134 in	3GWJ9
B133	136 in	6A169
B134	137 in	3GWK1
B135	138 in	13V799
B136	139 in	5X483
B137	140 in	13V801
B138	141 in	13V802
B140	143 in	6L218
B141	144 in	13V803
B142	145 in	3GWK2
B144	147 in	3X651
B147	150 in	3GWK3
B148	151 in	6L219
B149	152 in	3GWK4
B150	153 in	6L220
B152	155 in	3GWK5
B153	156 in	3GWK6
B154	157 in	6L221
B156	159 in	13V804
B158	161 in	3X374
B160	163 in	13V805
B162	165 in	6A170
B165	168 in	13V806
B168	171 in	3GWK7
B170	173 in	13V807
B172	175 in	13V808
B173	176 in	5X484
B175	178 in	3GWK8
B180	183 in	6A171
B185	188 in	3GWK9
B190	193 in	6L222
B195	198 in	6A172
B205	208 in	6L223
B206	209 in	3GWL1
B210	213 in	6L224
B225	226 in	6L225
B224	227 in	13V809
B237	238 in	3GWL2
B240	241 in	6L226
B255	256 in	6L227
B270	271 in	6L228
B285	286 in	13V810
B290	291 in	13V811
B293	294 in	13V813
B300	301 in	13V814
B315	316 in	13V815
B330	331 in	13V816
B345	346 in	13V817
B360	361 in	13V818
B433	434 in	13V819
C (7⁄8" Top Width by 17⁄32" Thick)		
C38	42 in	3GWL3
C42	46 in	3GWL4
C48	52 in	13V821
C50	54 in	13V822
C (7⁄8" Top Width by 17⁄32" Thick) (Cont.)		
C51	55 in	4FJ14
C53	57 in	3GWL5
C54	58 in	13V823
C55	59 in	4FJ15
C56	60 in	13V824
C57	61 in	13V825
C58	62 in	13V826
C59	63 in	13V827
C60	64 in	4FJ16
C62	66 in	3GWL6
C63	67 in	13V828
C64	68 in	3GWL7
C65	69 in	3GWL8
C68	72 in	4FJ17
C70	74 in	3GWL9
C71	75 in	3GWN1
C72	76 in	4FJ18
C73	77 in	3GWN2
C75	79 in	4FJ19
C76	80 in	3GWN3
C78	82 in	3GWN4
C79	83 in	3GWN5
C80	84 in	13V829
C81	85 in	4FJ20
C82	86 in	3GWN6
C83	87 in	3GWN7
C84	88 in	13V830
C85	89 in	4FJ21
C86	90 in	3GWN8
C87	91 in	13V831
C89	93 in	13V832
C90	94 in	4FJ22
C91	95 in	13V833
C93	97 in	3GWN9
C94	98 in	13V834
C95	99 in	13V835
C96	100 in	4FJ23
C97	101 in	4FJ24
C98	102 in	3GWP1
C99	103 in	4FJ25
C100	104 in	4FH83
C101	105 in	13V836
C103	107 in	3GWP2
C104	108 in	3GWP3
C105	109 in	4FH84
C106	110 in	3GWP4
C107	111 in	3GWP5
C108	112 in	4FH85
C109	113 in	4FH86
C110	114 in	3GWP6
C111	115 in	3GWP7
C112	116 in	4FH87
C115	119 in	4FH88
C117	121 in	3GWP8
C118	122 in	3GWP9
C120	124 in	4FH89
C122	126 in	13V837
C124	128 in	4FH90
C125	129 in	3GWR1
C126	130 in	13V838
C128	132 in	4FH91
C130	134 in	3GWR2
C131	135 in	3GWR3
C132	136 in	3GWR4
C135	139 in	3GWR5
C136	140 in	4FH92
C140	144 in	3GWR6
C141	145 in	3GWR7
C144	148 in	4FH93
C147	151 in	3GWR8
C148	152 in	3GWR9
C150	154 in	4FH94
C151	155 in	3GWT1
C152	156 in	3GWT2
C156	160 in	3GWT3
C158	162 in	4FH95
C160	164 in	13V839
C162	166 in	4FH96
C169	173 in	3GWT4
C170	174 in	3GWT5
C173	177 in	4FH97
C175	179 in	3GWT6
C177	181 in	3GWT7
C180	184 in	4FH98
C (7⁄8" Top Width by 17⁄32" Thick) (Cont.)		
C185	189 in	3GWT8
C187	191 in	13V842
C190	194 in	3GWT9
C195	199 in	4FH99
C206	210 in	3GWU1
C210	214 in	4FJ01
C220	224 in	13V844
C225	227 in	4FJ02
C240	242 in	4FJ03
C255	257 in	4FJ04
C270	272 in	13V845
C285	287 in	13V846
C300	302 in	13V847
C315	317 in	13V848
C330	332 in	13V849
3V (3⁄8" Top Width by 5⁄16" Thick)		
3V250	25 in	13V704
3V265	26.5 in	13V705
3V280	28 in	13V706
3V300	30 in	13V707
3V315	31.5 in	13V708
3V335	33.5 in	13V709
3V355	35.5 in	13V710
3V375	37.5 in	13V711
3V400	40 in	13V712
3V425	42.5 in	13V713
3V450	45 in	13V714
3V475	47.5 in	13V715
3V500	50 in	13V716
3V530	53 in	13V717
3V560	56 in	13V718
3V600	60 in	13V719
3V630	63 in	13V720
3V670	67 in	13V721
3V710	71 in	13V722
3V750	75 in	13V723
3V800	80 in	13V724
3V850	85 in	13V725
3V900	90 in	13V726
3V950	95 in	13V727
3V1000	100 in	13V728
3V1060	106 in	13V729
3V1120	112 in	13V730
3V1180	118 in	13V731
3V1250	125 in	13V732
3V1320	132 in	13V733
3V1400	140 in	13V734
5V (5⁄8" Top Width by 17⁄32" Thick)		
5V500	50 in	13V735
5V530	53 in	13V736
5V560	56 in	13V737
5V600	60 in	13V738
5V630	63 in	13V739
5V670	67 in	13V740
5V710	71 in	13V741
5V750	75 in	13V742
5V800	80 in	13V743
5V850	85 in	13V744
5V900	90 in	13V745
5V950	95 in	13V746
5V1000	100 in	13V747
5V1060	106 in	13V748
5V1120	112 in	13V749
5V1180	118 in	13V750
5V1250	125 in	13V751
5V1320	132 in	13V752
5V1400	140 in	13V753
5V1500	150 in	13V754
5V1600	160 in	13V755
5V1700	170 in	13V756
5V1800	180 in	13V757
5V1900	190 in	13V758
5V2000	200 in	13V759
5V2120	212 in	13V760
5V2240	224 in	13V761
5V2360	236 in	13V762
5V2500	250 in	13V763
5V2650	265 in	13V764
5V2800	280 in	13V765
5V3000	300 in	13V766
5V3150	315 in	13V767
5V3350	335 in	13V768

Find more information on V-Belts on page 97.

Dayton

AX, BX, CX, 3VX, and 5VX Raw Edge Cogged V-Belts

For medium/high HP industrial applications that require single or multiple V-belt drives. Belts resist oil and heat, and are static conductive. Belts interchange with brands such as Browning, Carlisle, ContiTech, Dayco, Gates, and Goodyear. These Dayton V-belts are built to matching specifications, so all belts of the same size are within the tolerances set by the ARPM (Association of Rubber Products Manufacturers).



Industry No.	Outside L	Item No.
AX (1/2" Top Width by 5/16" Thick)		
AX19	21 in	**3VU38**
AX20	22 in	**3VU39**
AX21	23 in	**3VU40**
AX22	24 in	**3VU41**
AX23	25 in	**3VU42**
AX24	26 in	**3VU43**
AX25	27 in	**3VU44**
AX26	28 in	**6A115**
AX27	29 in	**3GWU2**
AX28	30 in	**6L233**
AX29	31 in	**3GWU3**
AX30	32 in	**3GWU4**
AX31	33 in	**6A116**
AX32	34 in	**1YVU7**
AX33	35 in	**6A117**
AX34	36 in	**6L234**
AX35	37 in	**6A118**
AX36	38 in	**6A119**
AX37	39 in	**6L235**
AX38	40 in	**6A120**
AX39	41 in	**3GWU6**
AX40	42 in	**1YVU8**
AX41	43 in	**1YVU9**
AX42	44 in	**6A121**
AX43	45 in	**6L236**
AX44	46 in	**3GWU9**
AX45	47 in	**1YVX1**
AX46	48 in	**6A122**
AX47	49 in	**3GWX2**
AX48	50 in	**6L237**
AX49	51 in	**1YVX2**
AX50	52 in	**3GWX4**
AX51	53 in	**6L238**
AX52	54 in	**3GWX5**
AX53	55 in	**6L239**
AX54	56 in	**6L240**
AX55	57 in	**6L241**
AX56	58 in	**6L242**
AX57	59 in	**3GWX6**
AX58	60 in	**3GWX7**
AX59	61 in	**3GWX8**
AX60	62 in	**6L243**
AX61	63 in	**3GWX9**
AX62	64 in	**6L244**
AX63	65 in	**3GWY1**
AX64	66 in	**6L245**
AX65	67 in	**3GWY2**
AX66	68 in	**6L246**
AX67	69 in	**3GWY3**
AX68	70 in	**6L247**
AX69	71 in	**3GWY4**
AX70	72 in	**6L248**
AX71	73 in	**6L249**
AX72	74 in	**3GWY5**
AX73	75 in	**3GWY6**
AX75	77 in	**6L250**
AX77	79 in	**3GWY7**
AX78	80 in	**6L251**
AX79	81 in	**3GWY8**
AX80	82 in	**6L252**
AX82	84 in	**3GWY9**
AX83	85 in	**3GWZ1**
AX85	87 in	**6L253**
AX86	88 in	**3GWZ2**
AX87	89 in	**3GWZ3**
AX88	90 in	**3GWZ4**
AX89	91 in	**52LD57**
AX90	92 in	**6L254**
AX92	94 in	**6L255**
AX94	96 in	**3GWZ5**
AX95	97 in	**3GWZ6**
AX96	98 in	**6L256**
AX98	100 in	**3GWZ7**
AX100	102 in	**13W525**
AX (1/2" Top Width by 5/16" Thick) (Cont.)		
AX105	107 in	**6L257**
AX110	112 in	**6L258**
AX112	114 in	**6L259**
AX120	122 in	**6L260**
AX128	130 in	**6L261**
AX136	138 in	**6L262**
AX144	146 in	**6L263**
AX158	160 in	**13W526**
AX173	175 in	**13W527**
AX180	182 in	**13W528**
BX (21/32" Top Width by 13/32" Thick)		
BX25	28 in	**5TXL1**
BX27	30 in	**5TXL2**
BX28	31 in	**5TXL3**
BX29	32 in	**5TXL4**
BX30	33 in	**5TXL5**
BX31	34 in	**5TXL6**
BX32	35 in	**3GWZ8**
BX33	36 in	**5TXL7**
BX34	37 in	**3GWZ9**
BX35	38 in	**6L267**
BX36	39 in	**6A123**
BX37	40 in	**3GXA1**
BX38	41 in	**6A124**
BX39	42 in	**3GXA2**
BX40	43 in	**3GXA3**
BX41	44 in	**3GXA4**
BX42	45 in	**6A125**
BX43	46 in	**3GXA5**
BX44	47 in	**3GXA6**
BX45	48 in	**5TXL8**
BX46	49 in	**6A126**
BX47	50 in	**13W529**
BX48	51 in	**6A127**
BX49	52 in	**13W530**
BX50	53 in	**6L268**
BX51	54 in	**6L269**
BX52	55 in	**6L270**
BX53	56 in	**6L271**
BX54	57 in	**6L272**
BX55	58 in	**6A128**
BX56	59 in	**6A129**
BX57	60 in	**6L273**
BX58	61 in	**6L274**
BX59	62 in	**6L275**
BX60	63 in	**6A130**
BX61	64 in	**6L276**
BX62	65 in	**6L277**
BX63	66 in	**6L278**
BX64	67 in	**6L279**
BX65	68 in	**6A131**
BX66	69 in	**6L280**
BX67	70 in	**6L281**
BX68	71 in	**6A132**
BX70	73 in	**6L282**
BX71	74 in	**6A133**
BX72	75 in	**3GXA7**
BX73	76 in	**3GXA8**
BX74	77 in	**3GXA9**
BX75	78 in	**6A134**
BX76	79 in	**3HFC9**
BX77	80 in	**6L283**
BX78	81 in	**6L284**
BX79	82 in	**6L285**
BX80	83 in	**6L286**
BX81	84 in	**6L287**
BX82	85 in	**6L288**
BX83	86 in	**6L289**
BX84	87 in	**3GXC1**
BX85	88 in	**6A135**
BX86	89 in	**3GXC2**
BX87	90 in	**3GXC3**
BX88	91 in	**13W531**
BX89	92 in	**3GXC4**
BX90	93 in	**6A136**
BX91	94 in	**3HFD1**
BX (21/32" Top Width by 13/32" Thick) (Cont.)		
BX92	95 in	**3GXC5**
BX93	96 in	**6L290**
BX94	97 in	**13W532**
BX95	98 in	**6L291**
BX96	99 in	**6L292**
BX97	100 in	**6L293**
BX99	102 in	**6L294**
BX100	103 in	**6L295**
BX103	106 in	**3VU45**
BX105	108 in	**6L296**
BX106	109 in	**3GXC6**
BX108	111 in	**6L297**
BX112	115 in	**6A137**
BX113	116 in	**6L298**
BX115	118 in	**6L299**
BX116	119 in	**6L300**
BX120	123 in	**6L301**
BX124	127 in	**6L302**
BX126	129 in	**3GXC7**
BX128	131 in	**6L303**
BX133	136 in	**6L304**
BX136	139 in	**6L305**
BX144	147 in	**6L306**
BX150	153 in	**6L307**
BX158	161 in	**6L308**
BX162	165 in	**6L309**
BX173	176 in	**6L310**
BX180	183 in	**6L311**
BX195	198 in	**6L312**
BX210	213 in	**6L313**
BX225	226 in	**3GXC8**
BX240	241 in	**6L314**
CX (7/8" Top Width by 17/32" Thick)		
CX51	55 in	**4FJ43**
CX55	59 in	**13W533**
CX60	64 in	**4FJ44**
CX68	72 in	**4FJ45**
CX70	74 in	**13W534**
CX75	79 in	**4FJ46**
CX81	85 in	**4FJ47**
CX85	89 in	**4FJ48**
CX90	94 in	**4FJ49**
CX96	100 in	**4FJ50**
CX101	105 in	**4FJ26**
CX105	109 in	**4FJ27**
CX109	113 in	**4FJ28**
CX111	115 in	**3GXC9**
CX112	116 in	**4FJ29**
CX115	119 in	**3GXD1**
CX120	124 in	**4FJ30**
CX123	127 in	**3GXD2**
CX128	132 in	**4FJ31**
CX133	137 in	**3GXD3**
CX136	140 in	**4FJ32**
CX144	148 in	**4FJ33**
CX150	154 in	**4FJ34**
CX158	162 in	**4FJ35**
CX162	166 in	**4FJ36**
CX173	177 in	**4FJ37**
CX180	184 in	**4FJ38**
CX190	194 in	**3GXD5**
CX195	199 in	**4FJ39**
CX210	214 in	**4FJ40**
CX225	227 in	**3GXD6**
CX240	242 in	**4FJ41**
3VX (3/8" Top Width by 5/16" Thick)		
3VX235	23.5 in	**13W535**
3VX250	25 in	**2L377**
3VX265	26.5 in	**2L378**
3VX280	28 in	**2L379**
3VX300	30 in	**2L380**
3VX315	31.5 in	**2L381**
3VX335	33.5 in	**2L382**
3VX355	35.5 in	**2L383**
3VX360	36 in	**13W536**
3VX375	37.5 in	**2L384**
3VX400	40 in	**2L385**
3VX (3/8" Top Width by 5/16" Thick) (Cont.)		
3VX425	42.5 in	**2L386**
3VX450	45 in	**2L387**
3VX475	47.5 in	**2L388**
3VX500	50 in	**2L389**
3VX530	53 in	**2L390**
3VX560	56 in	**2L391**
3VX600	60 in	**2L392**
3VX630	63 in	**2L393**
3VX670	67 in	**2L394**
3VX710	71 in	**2L395**
3VX750	75 in	**2L396**
3VX800	80 in	**2L397**
3VX830	83 in	**13W537**
3VX850	85 in	**2L398**
3VX900	90 in	**2L399**
3VX950	95 in	**2L400**
3VX1000	100 in	**2L401**
3VX1060	106 in	**2L402**
3VX1120	112 in	**2L403**
3VX1180	118 in	**2L404**
3VX1250	125 in	**2L405**
3VX1320	132 in	**2L406**
3VX1400	140 in	**2L407**
5VX (5/8" Top Width by 17/32" Thick)		
5VX450	45 in	**2L408**
5VX470	47 in	**2L409**
5VX490	49 in	**2L410**
5VX500	50 in	**2L411**
5VX510	51 in	**2L412**
5VX530	53 in	**2L413**
5VX540	54 in	**2L414**
5VX550	55 in	**2L415**
5VX560	56 in	**2L416**
5VX570	57 in	**2L417**
5VX580	58 in	**2L418**
5VX590	59 in	**2L419**
5VX600	60 in	**2L420**
5VX610	61 in	**2L421**
5VX630	63 in	**2L422**
5VX650	65 in	**2L423**
5VX660	66 in	**2L424**
5VX670	67 in	**2L425**
5VX680	68 in	**2L426**
5VX690	69 in	**2L427**
5VX710	71 in	**2L428**
5VX730	73 in	**2L429**
5VX740	74 in	**2L430**
5VX750	75 in	**2L431**
5VX780	78 in	**2L432**
5VX800	80 in	**2L433**
5VX810	81 in	**2L434**
5VX830	83 in	**2L435**
5VX840	84 in	**2L436**
5VX850	85 in	**2L437**
5VX860	86 in	**2L438**
5VX880	88 in	**2L439**
5VX900	90 in	**2L440**
5VX930	93 in	**2L441**
5VX950	95 in	**2L442**
5VX960	96 in	**2L443**
5VX1000	100 in	**2L444**
5VX1030	103 in	**2L445**
5VX1060	106 in	**2L446**
5VX1080	108 in	**2L447**
5VX1120	112 in	**2L448**
5VX1150	115 in	**2L449**
5VX1180	118 in	**2L450**
5VX1230	123 in	**2L451**
5VX1250	125 in	**2L452**
5VX1320	132 in	**2L453**
5VX1400	140 in	**2L454**
5VX1500	150 in	**2L455**
5VX1600	160 in	**2L456**
5VX1700	170 in	**2L457**
5VX1800	180 in	**2L458**
5VX1900	190 in	**2L459**
5VX2000	200 in	**2L460**

Dayton

3HEY5

Banded V-Belts

Top cover protects belt from oil and heat, and maintains dimensional stability. Durable transverse tensile cords create a permanent connection between individual belts. For use with multiple belt systems where shock loads, pulsation, or misalignment cause belts to whip, flip over, or jump off of the sheave. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). Additional banded V-belts are available on Grainger.com.

Industry No.	Outside L	Item No.
B 2 Rib (1 ⅓" Top Width by ½" Thick)		
2/B46	49.75 in	**13G875**
2/B48	51.75 in	**3HEX5**
2/B50	53.75 in	**13G876**
2/B51	54.75 in	**13G877**
2/B52	55.75 in	**13G878**
2/B53	56.75 in	**13G879**
2/B54	57.75 in	**13G880**
2/B55	58.75 in	**13G881**
2/B56	59.75 in	**13G882**
2/B57	60.75 in	**13G883**
2/B58	61.75 in	**13G884**
2/B59	62.75 in	**13G885**
2/B60	63.75 in	**13G886**
2/B61	64.75 in	**13G887**
2/B62	65.75 in	**3HEZ2**
2/B63	66.75 in	**13G888**
2/B64	67.75 in	**13G889**
2/B65	68.75 in	**13G890**
2/B66	69.75 in	**13G891**
2/B67	70.75 in	**13G892**
2/B68	71.75 in	**13G893**
2/B70	73.75 in	**3HFC4**
2/B71	74.75 in	**13G894**
2/B72	75.75 in	**3HEY9**
2/B73	76.75 in	**3HFA7**
2/B74	77.75 in	**3HFA3**
2/B75	78.75 in	**13G895**
2/B77	80.75 in	**13G896**
2/B78	81.75 in	**13G897**
2/B79	82.75 in	**3HEX7**
2/B80	83.75 in	**3HEY3**
2/B81	84.75 in	**13G898**
2/B82	85.75 in	**13G899**
2/B83	86.75 in	**3HEX6**
2/B85	88.75 in	**3HEY1**
2/B87	90.75 in	**13G901**
2/B90	93.75 in	**3HEX9**
2/B93	96.75 in	**13G902**
2/B95	98.75 in	**3HEZ6**
2/B96	99.75 in	**13G903**
2/B97	100.75 in	**13G904**
2/B99	102.75 in	**13G905**
2/B100	103.75 in	**13G906**
2/B103	106.75 in	**3HEX8**
2/B105	108.75 in	**13G907**
2/B108	111.75 in	**13G908**
2/B112	115.75 in	**3HFC7**
2/B116	119.75 in	**13G909**
2/B120	123.75 in	**3HEY2**
2/B124	127.75 in	**3HEZ4**
2/B126	129.75 in	**13G910**
2/B128	131.75 in	**3HEY7**
2/B133	136.75 in	**3HEZ1**
2/B136	139.75 in	**3HEY8**
2/B144	147.75 in	**3HEZ3**
2/B148	151.75 in	**13G911**
2/B150	153.75 in	**3HEY6**
2/B157	160.75 in	**13G912**
2/B158	161.75 in	**13G913**
2/B173	176.75 in	**13G915**
2/B195	198.75 in	**13V462**
2/B210	213.75 in	**13V463**
2/B225	226.75 in	**13V464**
2/B240	241.75 in	**13V465**
B 3 Rib (2" Top Width by ½" Thick)		
3/B46	49.75 in	**13V466**
3/B48	51.75 in	**13V467**
3/B50	53.75 in	**13V468**
3/B51	54.75 in	**13V469**
3/B52	55.75 in	**13V470**
3/B53	56.75 in	**13V471**
3/B54	57.75 in	**13V472**
3/B55	58.75 in	**13V473**
3/B56	59.75 in	**13V474**
3/B57	60.75 in	**13V475**
3/B58	61.75 in	**13V476**
3/B59	62.75 in	**13V477**
3/B60	63.75 in	**3HFC1**
3/B61	64.75 in	**13V478**
3/B62	65.75 in	**13V479**
3/B63	66.75 in	**13V480**
3/B64	67.75 in	**3HFA8**
3/B65	68.75 in	**13V481**
3/B66	69.75 in	**13V482**
3/B67	70.75 in	**13V483**
3/B68	71.75 in	**13V484**
3/B70	73.75 in	**3HEY5**
3/B71	74.75 in	**13V485**
3/B72	75.75 in	**13V486**
3/B73	76.75 in	**13V487**
3/B74	77.75 in	**13V488**
3/B75	78.75 in	**3HEZ9**
3/B77	80.75 in	**13V489**
3/B78	81.75 in	**13V490**
3/B79	82.75 in	**13V491**
3/B80	83.75 in	**13V492**
3/B81	84.75 in	**13V493**
3/B82	85.75 in	**13V494**
B 3 Rib (2" Top Width by ½" Thick) (Cont.)		
3/B83	86.75 in	**13V495**
3/B85	88.75 in	**3HFC6**
3/B87	90.75 in	**13V496**
3/B90	93.75 in	**13V497**
3/B93	96.75 in	**13V498**
3/B95	98.75 in	**13V499**
3/B96	99.75 in	**13V501**
3/B97	100.75 in	**13V502**
3/B99	102.75 in	**13V503**
3/B100	103.75 in	**3HFA4**
3/B103	106.75 in	**13V504**
3/B105	108.75 in	**3HFA2**
3/B108	111.75 in	**13V505**
3/B112	115.75 in	**3HEZ5**
3/B116	119.75 in	**13V506**
3/B120	123.75 in	**3HFA1**
3/B124	127.75 in	**13V507**
3/B126	129.75 in	**13V508**
3/B128	131.75 in	**13V509**
3/B133	136.75 in	**13V510**
3/B136	139.75 in	**13V511**
3/B144	147.75 in	**13V512**
3/B148	151.75 in	**3HEZ8**
3/B150	153.75 in	**13V513**
3/B157	160.75 in	**13V514**
3/B158	161.75 in	**13V515**
3/B162	165.75 in	**13V516**
3/B173	176.75 in	**13V517**
3/B180	183.75 in	**13V518**
3/B195	198.75 in	**13V519**
3/B210	213.75 in	**13V520**
B 4 Rib (2 ⅔" Top Width by ½" Thick)		
4/B46	49.75 in	**13V523**
4/B48	51.75 in	**13V524**
4/B50	53.75 in	**13V525**
4/B51	54.75 in	**13V526**
4/B52	55.75 in	**13V527**
4/B53	56.75 in	**13V528**
4/B54	57.75 in	**13V529**
4/B55	58.75 in	**3HEY4**
4/B56	59.75 in	**13V530**
4/B57	60.75 in	**13V531**
4/B58	61.75 in	**13V532**
4/B59	62.75 in	**13V533**
4/B60	63.75 in	**13V534**
4/B61	64.75 in	**13V535**
4/B62	65.75 in	**3HFC5**
4/B63	66.75 in	**13V536**
4/B64	67.75 in	**13V537**
4/B65	68.75 in	**13V538**
4/B66	69.75 in	**13V539**
4/B67	70.75 in	**13V540**
4/B68	71.75 in	**13V541**
4/B70	73.75 in	**13V542**
4/B71	74.75 in	**13V543**
4/B72	75.75 in	**13V544**
4/B73	76.75 in	**13V545**
4/B74	77.75 in	**13V546**
4/B75	78.75 in	**13V547**
4/B77	80.75 in	**13V548**
4/B78	81.75 in	**13V549**
4/B79	82.75 in	**13V550**
4/B80	83.75 in	**13V551**
4/B81	84.75 in	**13V552**
4/B82	85.75 in	**13V553**
4/B83	86.75 in	**13V554**
4/B85	88.75 in	**13V555**
4/B87	90.75 in	**13V556**
4/B90	93.75 in	**3HFC3**
4/B93	96.75 in	**13V557**
4/B95	98.75 in	**13V558**
4/B96	99.75 in	**13V559**
4/B97	100.75 in	**13V560**
4/B99	102.75 in	**13V561**
4/B100	103.75 in	**3HFC8**
4/B103	106.75 in	**13V562**
4/B105	108.75 in	**3HFC2**
4/B108	111.75 in	**13V563**
4/B112	115.75 in	**13V564**
4/B116	119.75 in	**13V565**
4/B120	123.75 in	**13V566**
4/B124	127.75 in	**13V567**
4/B126	129.75 in	**13V568**
4/B128	131.75 in	**3HEZ7**
4/B133	136.75 in	**3HFA9**
4/B136	139.75 in	**3HFA5**
4/B144	147.75 in	**13V569**
4/B148	151.75 in	**13V570**
4/B150	153.75 in	**13V571**
4/B157	160.75 in	**13V572**
4/B158	161.75 in	**3HFA6**
4/B162	165.75 in	**13V573**
4/B173	176.75 in	**13V574**
4/B180	183.75 in	**13V575**
4/B195	198.75 in	**13V576**
4/B210	213.75 in	**13V577**
4/B225	226.75 in	**13V578**
4/B240	241.75 in	**13V579**
B 5 Rib (3 ⅓" Top Width by ½" Thick)		
5/B46	49.75 in	**13V580**
5/B48	51.75 in	**13V581**
5/B50	53.75 in	**13V582**
5/B51	54.75 in	**13V583**
5/B52	55.75 in	**13V584**
5/B53	56.75 in	**13V585**
5/B54	57.75 in	**13V586**
5/B55	58.75 in	**13V587**
5/B56	59.75 in	**13V588**
5/B57	60.75 in	**13V589**
5/B58	61.75 in	**13V590**
5/B59	62.75 in	**13V591**
5/B60	63.75 in	**13V592**
5/B61	64.75 in	**13V593**
5/B62	65.75 in	**13V594**
5/B63	66.75 in	**13V595**
5/B64	67.75 in	**13V596**
5/B65	68.75 in	**13V597**
5/B66	69.75 in	**13V598**
5/B67	70.75 in	**13V599**
5/B68	71.75 in	**13W269**
5/B70	73.75 in	**13W270**
5/B71	74.75 in	**13W271**
5/B72	75.75 in	**13W272**
5/B73	76.75 in	**13W273**
5/B74	77.75 in	**13W274**
5/B75	78.75 in	**13W275**
5/B77	80.75 in	**13W276**
5/B78	81.75 in	**13W277**
5/B79	82.75 in	**13W278**
5/B80	83.75 in	**13W279**
5/B81	84.75 in	**13W280**
5/B82	85.75 in	**13W281**
5/B83	86.75 in	**13W282**
5/B85	88.75 in	**13W283**
5/B87	90.75 in	**13W284**
5/B90	93.75 in	**13W285**
5/B93	96.75 in	**13W286**
5/B95	98.75 in	**13W287**
5/B96	99.75 in	**13W288**
5/B97	100.75 in	**13W289**
5/B99	102.75 in	**13W290**
5/B100	103.75 in	**13W291**
5/B103	106.75 in	**13W292**
5/B105	108.75 in	**13W293**
5/B108	111.75 in	**13W294**
5/B112	115.75 in	**13W295**
5/B116	119.75 in	**13W296**
5/B120	123.75 in	**13W297**
5/B124	127.75 in	**13W298**
5/B126	129.75 in	**13W299**
5/B128	131.75 in	**13W301**
5/B133	136.75 in	**13W302**
5/B136	139.75 in	**13W303**
5/B144	147.75 in	**13W304**
5/B148	151.75 in	**13W305**
5/B150	153.75 in	**13W306**
5/B157	160.75 in	**13W307**
5/B158	161.75 in	**13W308**
5/B162	165.75 in	**13W309**
5/B173	176.75 in	**13W310**
5/B180	183.75 in	**13W311**
5/B195	198.75 in	**13W312**
5/B210	213.75 in	**13W313**
5/B225	226.75 in	**13W314**
5/B240	241.75 in	**13W315**
B 6 Rib (4" Top Width by ½" Thick)		
6/B46	49.75 in	**13W316**
6/B48	51.75 in	**13W317**
6/B50	53.75 in	**13W318**
6/B51	54.75 in	**13W319**
6/B52	55.75 in	**13W320**
6/B53	56.75 in	**13W321**
6/B54	57.75 in	**13W322**
6/B55	58.75 in	**13W323**
6/B56	59.75 in	**13W324**
6/B57	60.75 in	**13W325**
6/B58	61.75 in	**13W326**
6/B59	62.75 in	**13W327**
6/B60	63.75 in	**13W328**
6/B61	64.75 in	**13W329**
6/B62	65.75 in	**13W330**
6/B63	66.75 in	**13W331**
6/B64	67.75 in	**13W332**
6/B65	68.75 in	**13W333**
6/B66	69.75 in	**13W334**
6/B67	70.75 in	**13W335**
6/B68	71.75 in	**13W336**
6/B70	73.75 in	**13W337**
6/B71	74.75 in	**13W338**
6/B72	75.75 in	**13W339**
6/B73	76.75 in	**13W340**
6/B74	77.75 in	**13W341**
6/B75	78.75 in	**13W342**
6/B77	80.75 in	**13W343**
6/B78	81.75 in	**13W344**
6/B79	82.75 in	**13W345**
6/B80	83.75 in	**13W346**
B 6 Rib (4" Top Width by ½" Thick) (Cont.)		
6/B81	84.75 in	**13W347**
6/B82	85.75 in	**13W348**
6/B83	86.75 in	**13W349**
6/B85	88.75 in	**13W350**
6/B87	90.75 in	**13W351**
6/B90	93.75 in	**13W352**
6/B93	96.75 in	**13W353**
6/B95	98.75 in	**13W354**
6/B96	99.75 in	**13W355**
6/B97	100.75 in	**13W356**
6/B99	102.75 in	**13W357**
6/B100	103.75 in	**13W358**
6/B103	106.75 in	**13W359**
6/B105	108.75 in	**13W360**
6/B108	111.75 in	**13W361**
6/B112	115.75 in	**13W362**
6/B116	119.75 in	**13W363**
6/B120	123.75 in	**13W364**
6/B124	127.75 in	**13W365**
6/B126	129.75 in	**13W366**
6/B128	131.75 in	**13W367**
6/B133	136.75 in	**13W368**
6/B136	139.75 in	**13W369**
6/B144	147.75 in	**13W370**
6/B148	151.75 in	**13W371**
6/B150	153.75 in	**13W372**
6/B157	160.75 in	**13W373**
6/B158	161.75 in	**13W374**
6/B162	165.75 in	**13W375**
6/B173	176.75 in	**13W376**
6/B180	183.75 in	**13W377**
6/B195	198.75 in	**13W378**
6/B210	213.75 in	**13W379**
6/B225	226.75 in	**13W380**
6/B240	241.75 in	**13W381**
C 2 Rib (1 ¾" Top Width by ⅝" Thick)		
2/C85	89.875 in	**13W382**
2/C90	94.875 in	**13W383**
2/C100	104.875 in	**13W384**
2/C105	109.875 in	**13W385**
2/C108	112.875 in	**13W386**
2/C109	113.875 in	**13W387**
2/C112	116.875 in	**13W388**
2/C120	124.875 in	**13W389**
2/C123	127.875 in	**13W390**
2/C124	128.875 in	**13W391**
2/C126	130.875 in	**13W392**
2/C128	132.875 in	**13W393**
2/C136	140.875 in	**13W394**
2/C144	148.875 in	**13W395**
2/C158	162.875 in	**13W396**
2/C162	166.875 in	**13W397**
2/C173	177.875 in	**13W398**
2/C180	184.875 in	**13W399**
2/C195	199.875 in	**13W401**
2/C210	214.875 in	**13W402**
2/C225	227.875 in	**13W403**
2/C230	232.875 in	**13W404**
2/C240	242.875 in	**13W405**
2/C255	257.875 in	**13W406**
2/C270	272.875 in	**13W407**
2/C285	287.875 in	**13W408**
2/C300	302.875 in	**13W409**
2/C315	317.875 in	**13W410**
2/C330	332.875 in	**13W411**
2/C345	347.875 in	**13W412**
2/C360	362.875 in	**13W413**
2/C375	377.875 in	**13W414**
2/C390	392.875 in	**13W415**
2/C420	422.875 in	**13W416**
C 3 Rib (2 ⅔" Top Width by ⅝" Thick)		
3/C85	89.875 in	**13W417**
3/C90	94.875 in	**13W418**
3/C100	104.875 in	**13W419**
3/C105	109.875 in	**13W420**
3/C108	112.875 in	**13W421**
3/C109	113.875 in	**13W422**
3/C112	116.875 in	**13W423**
3/C120	124.875 in	**13W424**
3/C123	127.875 in	**13W425**
3/C124	128.875 in	**13W426**
3/C126	130.875 in	**13W427**
3/C128	132.875 in	**13W428**
3/C136	140.875 in	**13W429**
3/C144	148.875 in	**13W430**
3/C158	162.875 in	**13W431**
3/C162	166.875 in	**13W432**
3/C173	177.875 in	**13W433**
3/C180	184.875 in	**13W434**
3/C195	199.875 in	**13W435**
3/C210	214.875 in	**13W436**
3/C225	227.875 in	**13W437**
3/C230	232.875 in	**13W438**
3/C240	242.875 in	**13W439**
3/C255	257.875 in	**13W440**
3/C270	272.875 in	**13W441**

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Dayton

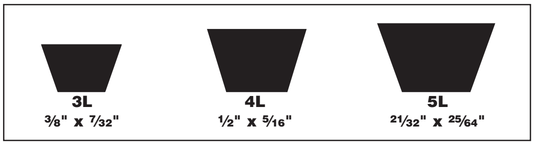
Banded V-Belts

Industry No.	Outside L	Item No.
C 3 Rib (2 ⅔" Top Width by ⅝" Thick) (Cont.)		
3/C285	287.875 in	**13W442**
3/C300	302.875 in	**13W443**
3/C315	317.875 in	**13W444**
3/C330	332.875 in	**13W445**
3/C345	347.875 in	**13W446**
3/C360	362.875 in	**13W447**
3/C375	377.875 in	**13W448**
3/C390	392.875 in	**13W449**
3/C420	422.875 in	**13W450**
C 4 Rib (3 ½" Top Width by ⅝" Thick)		
4/C85	89.875 in	**13W451**
4/C90	94.875 in	**13W452**
4/C100	104.875 in	**13W453**
4/C105	109.875 in	**13W454**
4/C108	112.875 in	**13W455**
4/C109	113.875 in	**13W456**
4/C112	116.875 in	**13W457**
4/C120	124.875 in	**13W458**
4/C123	127.875 in	**13W459**
4/C124	128.875 in	**13W460**
4/C126	130.875 in	**13W461**
4/C128	132.875 in	**13W462**
4/C136	140.875 in	**13W463**
4/C144	148.875 in	**13W464**
4/C158	162.875 in	**13W465**
4/C162	166.875 in	**13W466**
4/C173	177.875 in	**13W467**
4/C180	184.875 in	**13W468**
4/C195	199.875 in	**13W469**
4/C210	214.875 in	**13W470**
4/C225	227.875 in	**13W471**
4/C230	232.875 in	**13W472**
4/C240	242.875 in	**13W473**
4/C255	257.875 in	**13W474**
4/C270	272.875 in	**13W475**
4/C285	287.875 in	**13W476**
4/C300	302.875 in	**13W477**
4/C315	317.875 in	**13W478**
4/C330	332.875 in	**13W479**
4/C345	347.875 in	**13W480**
4/C360	362.875 in	**13W481**
4/C375	377.875 in	**13W482**
4/C390	392.875 in	**13W483**
4/C420	422.875 in	**13W484**
C 5 Rib (4 ⅖" Top Width by ⅝" Thick)		
5/C85	89.875 in	**13W485**
5/C90	94.875 in	**13W486**
5/C100	104.875 in	**13W487**
5/C105	109.875 in	**13W488**
5/C108	112.875 in	**13W489**
5/C109	113.875 in	**13W490**
5/C112	116.875 in	**13W491**
5/C120	124.875 in	**13W492**
5/C123	127.875 in	**13W493**
5/C124	128.875 in	**13W494**
5/C126	130.875 in	**13W495**
5/C128	132.875 in	**13W496**
5/C136	140.875 in	**13W497**
5/C144	148.875 in	**13W498**
5/C158	162.875 in	**13W499**
5/C162	166.875 in	**13W501**
5/C173	177.875 in	**13W502**
5/C180	184.875 in	**13W503**
5/C195	199.875 in	**13W504**
5/C210	214.875 in	**13W505**
5/C225	227.875 in	**13W506**
5/C230	232.875 in	**13W507**
5/C240	242.875 in	**13W508**
5/C255	257.875 in	**13W509**
5/C270	272.875 in	**13W510**
5/C285	287.875 in	**13W511**
5/C300	302.875 in	**13W512**
5/C315	317.875 in	**13W513**
5/C330	332.875 in	**13W514**
5/C345	347.875 in	**13W515**
5/C360	362.875 in	**13W516**
5/C375	377.875 in	**13W517**
5/C390	392.875 in	**13W518**
5/C420	422.875 in	**13W519**
C 6 Rib (5 ⅓" Top Width by ⅝" Thick)		
6/C85	89.875 in	**13W520**
6/C90	94.875 in	**13W521**
6/C100	104.875 in	**11X740**
6/C105	109.875 in	**11X741**
6/C108	112.875 in	**11X742**
6/C109	113.875 in	**11X743**
6/C112	116.875 in	**11X744**
6/C120	124.875 in	**11X745**
6/C123	127.875 in	**11X746**
6/C124	128.875 in	**11X747**
6/C126	130.875 in	**11X748**
6/C128	132.875 in	**11X749**
6/C136	140.875 in	**11X750**
6/C144	148.875 in	**11X751**
6/C158	162.875 in	**11X752**
6/C162	166.875 in	**11X753**
6/C173	177.875 in	**11X754**
6/C180	184.875 in	**11X755**
6/C195	199.875 in	**11X756**
6/C210	214.875 in	**11X757**
6/C225	227.875 in	**11X758**
6/C230	232.875 in	**11X759**
6/C240	242.875 in	**11X760**

Industry No.	Outside L	Item No.
C 6 Rib (5 ⅓" Top Width by ⅝" Thick) (Cont.)		
6/C255	257.875 in	**11X761**
6/C270	272.875 in	**11X762**
6/C285	287.875 in	**11X763**
6/C300	302.875 in	**11X764**
6/C315	317.875 in	**11X765**
6/C330	332.875 in	**11X766**
6/C345	347.875 in	**11X767**
6/C360	362.875 in	**11X768**
6/C375	377.875 in	**11X769**
6/C390	392.875 in	**11X770**
6/C420	422.875 in	**11X771**
3V 2 Rib (¾" Top Width by ⅜" Thick)		
2/3V400	40.625 in	**11X898**
2/3V425	43.125 in	**11X899**
2/3V450	45.625 in	**11X901**
2/3V475	48.125 in	**11X902**
2/3V500	50.625 in	**11X903**
2/3V530	53.625 in	**11X904**
2/3V560	56.625 in	**11X905**
2/3V600	60.625 in	**11X906**
2/3V630	63.625 in	**11X907**
2/3V670	67.625 in	**11X908**
2/3V710	71.625 in	**11X909**
2/3V750	75.625 in	**11X910**
2/3V800	80.625 in	**11X911**
2/3V850	85.625 in	**11X912**
2/3V900	90.625 in	**11X913**
2/3V950	95.625 in	**11X914**
2/3V1000	100.625 in	**11X915**
2/3V1060	106.625 in	**11X916**
2/3V1120	112.625 in	**11X917**
2/3V1180	118.625 in	**11X918**
2/3V1250	125.625 in	**11X919**
2/3V1320	132.625 in	**11X920**
2/3V1400	140.625 in	**11X921**
3V 3 Rib (1 ⅛" Top Width by ⅜" Thick)		
3/3V400	40.625 in	**11X922**
3/3V425	43.125 in	**11X923**
3/3V450	45.625 in	**11X924**
3/3V475	48.125 in	**11X925**
3/3V500	50.625 in	**11X926**
3/3V530	53.625 in	**11X927**
3/3V560	56.625 in	**11X928**
3/3V600	60.625 in	**11X929**
3/3V630	63.625 in	**11X930**
3/3V670	67.625 in	**11X931**
3/3V710	71.625 in	**11X932**
3/3V750	75.625 in	**11X933**
3/3V800	80.625 in	**11X934**
3/3V850	85.625 in	**11X935**
3/3V900	90.625 in	**11X936**
3/3V950	95.625 in	**11X937**
3/3V1000	100.625 in	**11X938**
3/3V1060	106.625 in	**11X939**
3/3V1120	112.625 in	**11X940**
3/3V1180	118.625 in	**11X941**
3/3V1250	125.625 in	**11X942**
3/3V1320	132.625 in	**11X943**
3/3V1400	140.625 in	**11X944**
3V 4 Rib (1 ½" Top Width by ⅜" Thick)		
4/3V400	40.625 in	**11X945**
4/3V425	43.125 in	**11X946**
4/3V450	45.625 in	**11X947**
4/3V475	48.125 in	**11X948**
4/3V500	50.625 in	**11X949**
4/3V530	53.625 in	**11X950**
4/3V560	56.625 in	**11X951**
4/3V600	60.625 in	**11X952**
4/3V630	63.625 in	**11X953**
4/3V670	67.625 in	**11X954**
4/3V710	71.625 in	**11X955**
4/3V750	75.625 in	**11X956**
4/3V800	80.625 in	**11X957**
4/3V850	85.625 in	**11X958**
4/3V900	90.625 in	**11X959**
4/3V950	95.625 in	**11X960**
4/3V1000	100.625 in	**11X961**
4/3V1060	106.625 in	**11X962**
4/3V1120	112.625 in	**11X963**
4/3V1180	118.625 in	**11X964**
4/3V1250	125.625 in	**11X965**
4/3V1320	132.625 in	**11X966**
4/3V1400	140.625 in	**11X967**
3V 5 Rib (1 ⅞" Top Width by ⅜" Thick)		
5/3V400	40.625 in	**11X968**
5/3V425	43.125 in	**11X969**
5/3V450	45.625 in	**11X970**
5/3V475	48.125 in	**11X971**
5/3V500	50.625 in	**11X972**
5/3V530	53.625 in	**11X973**
5/3V560	56.625 in	**11X974**
5/3V600	60.625 in	**11X975**
5/3V630	63.625 in	**11X976**
5/3V670	67.625 in	**11X977**
5/3V710	71.625 in	**11X978**
5/3V750	75.625 in	**11X979**
5/3V800	80.625 in	**11X980**
5/3V850	85.625 in	**11X981**
5/3V900	90.625 in	**11X982**
5/3V950	95.625 in	**11X983**
5/3V1000	100.625 in	**11X984**
5/3V1060	106.625 in	**11X985**
5/3V1120	112.625 in	**11X986**
5/3V1180	118.625 in	**11X987**

Industry No.	Outside L	Item No.
3V 5 Rib (1 ⅞" Top Width by ⅜" Thick) (Cont.)		
5/3V1250	125.625 in	**11X988**
5/3V1320	132.625 in	**11X989**
5/3V1400	140.625 in	**11X990**
3V 6 Rib (2 ¼" Top Width by ⅜" Thick)		
6/3V400	40.625 in	**11X991**
6/3V425	43.125 in	**13F881**
6/3V450	45.625 in	**13F882**
6/3V475	48.125 in	**13F883**
6/3V500	50.625 in	**13F884**
6/3V530	53.625 in	**13F885**
6/3V560	56.625 in	**13F886**
6/3V600	60.625 in	**13F887**
6/3V630	63.625 in	**13F888**
6/3V670	67.625 in	**13F889**
6/3V710	71.625 in	**13F890**
6/3V750	75.625 in	**13F891**
6/3V800	80.625 in	**13F892**
6/3V850	85.625 in	**13F893**
6/3V900	90.625 in	**13F894**
6/3V950	95.625 in	**13F895**
6/3V1000	100.625 in	**13F896**
6/3V1060	106.625 in	**13F897**
6/3V1120	112.625 in	**13F898**
6/3V1180	118.625 in	**13F899**
6/3V1250	125.625 in	**13F901**
6/3V1320	132.625 in	**13F902**
6/3V1400	140.625 in	**13F903**
5V 2 Rib (1 ¼" Top Width by ⅝" Thick)		
2/5V500	50.75 in	**13F904**
2/5V530	53.75 in	**13F905**
2/5V560	56.75 in	**13F906**
2/5V600	60.75 in	**13F907**
2/5V630	63.75 in	**13F908**
2/5V670	67.75 in	**13F909**
2/5V710	71.75 in	**13F910**
2/5V750	75.75 in	**13F911**
2/5V800	80.75 in	**13F912**
2/5V850	85.75 in	**13F913**
2/5V900	90.75 in	**13F914**
2/5V950	95.75 in	**13F915**
2/5V1000	100.75 in	**13F916**
2/5V1060	106.75 in	**13F917**
2/5V1120	112.75 in	**13F918**
2/5V1180	118.75 in	**13F919**
2/5V1250	125.75 in	**13F920**
2/5V1320	132.75 in	**13F921**
2/5V1400	140.75 in	**13F922**
2/5V1500	150.75 in	**13F923**
2/5V1600	160.75 in	**13F924**
2/5V1700	170.75 in	**13F925**
2/5V1800	180.75 in	**13F926**
2/5V1900	190.75 in	**13F927**
2/5V2000	200.75 in	**13F928**
2/5V2120	212.75 in	**13F929**
2/5V2240	224.75 in	**13F930**
2/5V2360	236.75 in	**13F931**
2/5V2500	250.75 in	**13F932**
2/5V2650	265.75 in	**13F933**
2/5V2800	280.75 in	**13F934**
2/5V3000	300.75 in	**13F935**
2/5V3150	315.75 in	**13F936**
2/5V3350	335.75 in	**13F937**
2/5V3550	355.75 in	**13F938**
5V 3 Rib (1 ⅞" Top Width by ⅝" Thick)		
3/5V500	50.75 in	**13F939**
3/5V530	53.75 in	**13F940**
3/5V560	56.75 in	**13F941**
3/5V600	60.75 in	**13F942**
3/5V630	63.75 in	**13F943**
3/5V670	67.75 in	**13F944**
3/5V710	71.75 in	**13F945**
3/5V750	75.75 in	**13F946**
3/5V800	80.75 in	**13F947**
3/5V850	85.75 in	**13F948**
3/5V900	90.75 in	**13F949**
3/5V950	95.75 in	**13F950**
3/5V1000	100.75 in	**13F951**
3/5V1060	106.75 in	**13F952**
3/5V1120	112.75 in	**13F953**
3/5V1180	118.75 in	**13F954**
3/5V1250	125.75 in	**13F955**
3/5V1320	132.75 in	**13F956**
3/5V1400	140.75 in	**13F957**
3/5V1500	150.75 in	**13F958**
3/5V1600	160.75 in	**13F959**
3/5V1700	170.75 in	**13F960**
3/5V1800	180.75 in	**13F961**
3/5V1900	190.75 in	**13F962**
3/5V2000	200.75 in	**13F963**
3/5V2120	212.75 in	**13F964**
3/5V2240	224.75 in	**13F965**
3/5V2360	236.75 in	**13F966**
3/5V2500	250.75 in	**13F967**
3/5V2650	265.75 in	**13F968**
3/5V2800	280.75 in	**13F969**
3/5V3000	300.75 in	**13F970**
3/5V3150	315.75 in	**13F971**
3/5V3350	335.75 in	**13F972**
3/5V3550	355.75 in	**13F973**
5V 4 Rib (2 ½" Top Width by ⅝" Thick)		
4/5V500	50.75 in	**13F974**
4/5V530	53.75 in	**13F975**
4/5V560	56.75 in	**13F976**

Industry No.	Outside L	Item No.
5V 4 Rib (2 ½" Top Width by ⅝" Thick) (Cont.)		
4/5V600	60.75 in	**13F977**
4/5V630	63.75 in	**13F978**
4/5V670	67.75 in	**13F979**
4/5V710	71.75 in	**13F980**
4/5V750	75.75 in	**13F981**
4/5V800	80.75 in	**13F982**
4/5V850	85.75 in	**13F983**
4/5V900	90.75 in	**13F984**
4/5V950	95.75 in	**13F985**
4/5V1000	100.75 in	**13F986**
4/5V1060	106.75 in	**13F987**
4/5V1120	112.75 in	**13F988**
4/5V1180	118.75 in	**13F989**
4/5V1250	125.75 in	**13F990**
4/5V1320	132.75 in	**13F991**
4/5V1400	140.75 in	**13F992**
4/5V1500	150.75 in	**13F993**
4/5V1600	160.75 in	**13F994**
4/5V1700	170.75 in	**13F995**
4/5V1800	180.75 in	**13F996**
4/5V1900	190.75 in	**13F997**
4/5V2000	200.75 in	**13F998**
4/5V2120	212.75 in	**13F999**
4/5V2240	224.75 in	**13G001**
4/5V2360	236.75 in	**13G002**
4/5V2500	250.75 in	**13G003**
4/5V2650	265.75 in	**13G004**
4/5V2800	280.75 in	**13G005**
4/5V3000	300.75 in	**13G006**
4/5V3150	315.75 in	**13G007**
4/5V3350	335.75 in	**13G008**
4/5V3550	355.75 in	**13G009**
5V 5 Rib (3 ⅛" Top Width by ⅝" Thick)		
5/5V500	50.75 in	**13G010**
5/5V530	53.75 in	**13G011**
5/5V560	56.75 in	**13G012**
5/5V600	60.75 in	**13G013**
5/5V630	63.75 in	**13G014**
5/5V670	67.75 in	**13G015**
5/5V710	71.75 in	**13G016**
5/5V750	75.75 in	**13G017**
5/5V800	80.75 in	**13G018**
5/5V850	85.75 in	**13G019**
5/5V900	90.75 in	**13G020**
5/5V950	95.75 in	**13G021**
5/5V1000	100.75 in	**13G022**
5/5V1060	106.75 in	**13G023**
5/5V1120	112.75 in	**13G024**
5/5V1180	118.75 in	**13G025**
5/5V1250	125.75 in	**13G026**
5/5V1320	132.75 in	**13G027**
5/5V1400	140.75 in	**13G028**
5/5V1500	150.75 in	**13G029**
5/5V1600	160.75 in	**13G030**
5/5V1700	170.75 in	**13G031**
5/5V1800	180.75 in	**13G032**
5/5V1900	190.75 in	**13G033**
5/5V2000	200.75 in	**13G034**
5/5V2120	212.75 in	**13G035**
5/5V2240	224.75 in	**13G036**
5/5V2360	236.75 in	**13G037**
5/5V2500	250.75 in	**13G038**
5/5V2650	265.75 in	**13G039**
5/5V2800	280.75 in	**13G040**
5/5V3000	300.75 in	**13G041**
5/5V3150	315.75 in	**13G042**
5/5V3350	335.75 in	**13G043**
5/5V3550	355.75 in	**13G044**
5V 6 Rib (3 ¾" Top Width by ⅝" Thick)		
6/5V500	50.75 in	**13G045**
6/5V530	53.75 in	**13G046**
6/5V560	56.75 in	**13G047**
6/5V600	60.75 in	**13G048**
6/5V630	63.75 in	**13G049**
6/5V670	67.75 in	**13G050**
6/5V710	71.75 in	**13G051**
6/5V750	75.75 in	**13G052**
6/5V800	80.75 in	**13G053**
6/5V850	85.75 in	**13G054**
6/5V900	90.75 in	**13G055**
6/5V950	95.75 in	**13G056**
6/5V1000	100.75 in	**13G057**
6/5V1060	106.75 in	**13G058**
6/5V1120	112.75 in	**13G059**
6/5V1180	118.75 in	**13G060**
6/5V1250	125.75 in	**13G061**
6/5V1320	132.75 in	**13G062**
6/5V1400	140.75 in	**13G063**
6/5V1500	150.75 in	**13G064**
6/5V1600	160.75 in	**13G065**
6/5V1700	170.75 in	**13G066**
6/5V1800	180.75 in	**13G067**
6/5V1900	190.75 in	**13G068**
6/5V2000	200.75 in	**13G069**
6/5V2120	212.75 in	**13G070**
6/5V2240	224.75 in	**13G071**
6/5V2360	236.75 in	**13G072**
6/5V2500	250.75 in	**13G073**
6/5V2650	265.75 in	**13G074**
6/5V2800	280.75 in	**13G075**
6/5V3000	300.75 in	**13G076**
6/5V3150	315.75 in	**13G077**
6/5V3350	335.75 in	**13G078**
6/5V3550	355.75 in	**13G079**

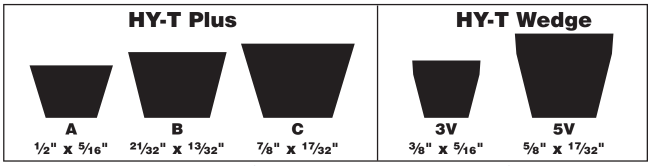


3L, 4L, and 5L Fractional Horsepower V-Belts

Continental ContiTech

Static conductive, plus heat-, ozone-, and abrasion-resistant. 4L and 5L belts are cogged. All are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com.

Industry No.	Outside L	Item No.
3L (3/8" Top Width by 7/32" Thick)		
3L150	15 in	459H76
3L160	16 in	459H77
3L170	17 in	459H78
3L180	18 in	459H79
3L190	19 in	459H80
3L200	20 in	459H81
3L210	21 in	459H82
3L220	22 in	459H83
3L230	23 in	459H84
3L240	24 in	459H85
3L250	25 in	459H86
3L260	26 in	459H87
3L270	27 in	459H88
3L280	28 in	459H89
3L290	29 in	459H90
3L300	30 in	459H91
3L310	31 in	459H92
3L320	32 in	459H93
3L330	33 in	459H94
3L340	34 in	459H95
3L350	35 in	459H96
3L360	36 in	459H97
3L370	37 in	459H98
3L380	38 in	459H99
3L390	39 in	459J01
3L400	40 in	459J02
3L410	41 in	459J03
3L420	42 in	459J04
3L430	43 in	459J05
3L (3/8" Top Width by 7/32" Thick) (Cont.)		
3L440	44 in	459J06
3L450	45 in	459J07
3L460	46 in	459J08
3L470	47 in	459J09
3L480	48 in	459J10
3L490	49 in	459J11
3L500	50 in	459J12
3L510	51 in	459J13
3L520	52 in	459J14
3L530	53 in	459J15
3L550	55 in	459J16
3L560	56 in	459J17
3L590	59 in	459J18
3L600	60 in	459J19
3L610	61 in	459J20
4L (1/2" Top Width by 5/16" Thick)		
4L160	16 in	459J38
4L170	17 in	459J39
4L180	18 in	459J40
4L190	19 in	459J41
4L200	20 in	459J42
4L210	21 in	459J43
4L220	22 in	459J44
4L230	23 in	459J45
4L240	24 in	459J46
4L250	25 in	459J47
4L260	26 in	459J48
4L270	27 in	459J49
4L280	28 in	459J50
4L (1/2" Top Width by 5/16" Thick) (Cont.)		
4L290	29 in	459J51
4L300	30 in	459J52
4L310	31 in	459J53
4L320	32 in	459J54
4L330	33 in	459J55
4L340	34 in	459J56
4L350	35 in	459J57
4L360	36 in	459J58
4L370	37 in	459J59
4L380	38 in	459J60
4L390	39 in	459J61
4L400	40 in	459J62
4L410	41 in	459J63
4L420	42 in	459J64
4L430	43 in	459J65
4L440	44 in	459J66
4L450	45 in	459J67
4L460	46 in	459J68
4L470	47 in	459J69
4L480	48 in	459J70
4L490	49 in	459J71
4L500	50 in	459J72
4L510	51 in	459J73
4L520	52 in	459J74
4L530	53 in	459J75
4L540	54 in	459J76
4L550	55 in	459J77
4L560	56 in	459J78
4L570	57 in	459J79
4L (1/2" Top Width by 5/16" Thick) (Cont.)		
4L580	58 in	459J80
4L590	59 in	459J81
4L600	60 in	459J82
4L610	61 in	459J83
4L620	62 in	459J84
4L630	63 in	459J85
4L640	64 in	459J86
4L650	65 in	459J87
4L660	66 in	459J88
4L670	67 in	459J89
4L680	68 in	459J90
4L690	69 in	459J91
4L730	73 in	459J92
4L780	78 in	459J93
4L790	79 in	459J94
4L800	80 in	459J95
4L820	82 in	459J96
4L880	88 in	459J97
4L920	92 in	459J98
4L980	98 in	459J99
5L (21/32" Top Width by 25/64" Thick)		
5L260	26 in	459K01
5L270	27 in	459K02
5L280	28 in	459K03
5L290	29 in	459K04
5L300	30 in	459K05
5L310	31 in	459K06
5L320	32 in	459K07
5L330	33 in	459K08
5L (21/32" Top Width by 25/64" Thick) (Cont.)		
5L340	34 in	459K09
5L350	35 in	459K10
5L360	36 in	459K11
5L370	37 in	459K12
5L380	38 in	459K13
5L390	39 in	459K14
5L400	40 in	459K15
5L410	41 in	459K16
5L420	42 in	459K17
5L430	43 in	459K18
5L440	44 in	459K19
5L450	45 in	459K20
5L460	46 in	459K21
5L470	47 in	459K22
5L480	48 in	459K23
5L490	49 in	459K24
5L500	50 in	459K25
5L510	51 in	459K26
5L520	52 in	459K27
5L530	53 in	459K28
5L540	54 in	459K29
5L550	55 in	459K30
5L560	56 in	459K31
5L570	57 in	459K32
5L580	58 in	459K33
5L590	59 in	459K34
5L600	60 in	459K35
5L650	65 in	459K36
5L820	82 in	459K37

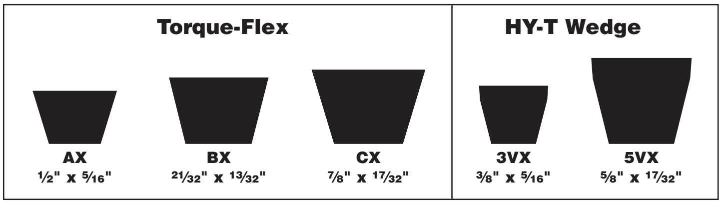


A, B, C, 3V, and 5V V-Belts

Continental ContiTech

HY-T Plus and HY-T Wedge wrapped belts are engineered with high-grade rubber for static conductivity and resistance to heat, ozone, oil, and abrasion. Built to Matchmaker specifications so all belts of the same size are within the matching tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com.

Industry No.	Outside L	Item No.
A (1/2" Top Width by 5/16" Nom. Thickness)		
A19	21 in	459K62
A20	22 in	459K63
A21	23 in	459K64
A22	24 in	459K65
A23	25 in	459K66
A24	26 in	459K67
A25	27 in	459K68
A26	28 in	459K69
A27	29 in	459K70
A28	30 in	459K71
A29	31 in	459K72
A30	32 in	459K73
A31	33 in	459K74
A32	34 in	459K75
A33	35 in	459K76
A34	36 in	459K77
A35	37 in	459K78
A36	38 in	459K79
A37	39 in	459K80
A38	40 in	459K81
A39	41 in	459K82
A40	42 in	459K83
A41	43 in	459K84
A42	44 in	459K85
A43	45 in	459K86
A44	46 in	459K87
A45	47 in	459K88
A46	48 in	459K89
A47	49 in	459K90
A48	50 in	459K91
A49	51 in	459K92
A50	52 in	459K93
A51	53 in	459K94
A52	54 in	459K95
A53	55 in	459K96
A54	56 in	459K97
A55	57 in	459K98
A56	58 in	459K99
A57	59 in	459L01
A58	60 in	459L02
A59	61 in	459L03
A60	62 in	459L04
A61	63 in	459L05
A62	64 in	459L06
A63	65 in	459L07
A64	66 in	459L08
A65	67 in	459L09
A66	68 in	459L10
A67	69 in	459L11
A68	70 in	459L12
A69	71 in	459L13
A70	72 in	459L14
A (1/2" Top Width by 5/16" Nom. Thickness) (Cont.)		
A71	73 in	459L15
A72	74 in	459L16
A73	75 in	459L17
A74	76 in	459L18
A75	77 in	459L19
A76	78 in	459L20
A77	79 in	459L21
A78	80 in	459L22
A79	81 in	459L23
A80	82 in	459L24
A81	83 in	459L25
A82	84 in	459L26
A83	85 in	459L27
A84	86 in	459L28
A85	87 in	459L29
A86	88 in	459L30
A87	89 in	459L31
A88	90 in	459L32
A89	91 in	459L33
A90	92 in	459L34
A92	94 in	459L36
A93	95 in	459L37
A94	96 in	459L38
A95	97 in	459L39
A96	98 in	459L40
A97	99 in	459L41
A98	100 in	459L42
A100	102 in	459K52
A103	105 in	459K54
A105	107 in	459K55
A110	112 in	459K56
A112	114 in	459K57
A120	122 in	459K58
A128	130 in	459K59
A136	138 in	459K60
A144	146 in	459K61
B (21/32" Top Width by 13/32" Nom. Thickness)		
B26	29 in	459L82
B28	31 in	459L84
B30	33 in	459L86
B31	34 in	459L87
B32	35 in	459L88
B33	36 in	459L89
B34	37 in	459L90
B35	38 in	459L91
B36	39 in	459L92
B37	40 in	459L93
B38	41 in	459L94
B39	42 in	459L95
B40	43 in	459L96
B41	44 in	459L97
B42	45 in	459L98
B (21/32" Top Width by 13/32" Thick) (Cont.)		
B43	46 in	459L99
B44	47 in	459M01
B45	48 in	459M02
B46	49 in	459M03
B47	50 in	459M04
B48	51 in	459M05
B49	52 in	459M06
B50	53 in	459M07
B51	54 in	459M08
B52	55 in	459M09
B53	56 in	459M10
B54	57 in	459M11
B55	58 in	459M12
B56	59 in	459M13
B57	60 in	459M14
B58	61 in	459M15
B59	62 in	459M16
B60	63 in	459M17
B61	64 in	459M18
B62	65 in	459M19
B63	66 in	459M20
B64	67 in	459M21
B65	68 in	459M22
B66	69 in	459M23
B67	70 in	459M24
B68	71 in	459M25
B69	72 in	459M26
B70	73 in	459M27
B71	74 in	459M28
B72	75 in	459M29
B73	76 in	459M30
B74	77 in	459M31
B75	78 in	459M32
B76	79 in	459M33
B77	80 in	459M34
B78	81 in	459M35
B79	82 in	459M36
B80	83 in	459M37
B81	84 in	459M38
B82	85 in	459M39
B83	86 in	459M40
B84	87 in	459M41
B85	88 in	459M42
B86	89 in	459M43
B87	90 in	459M44
B88	91 in	459M45
B89	92 in	459M46
B90	93 in	459M47
B91	94 in	459M48
B92	95 in	459M49
B93	96 in	459M50
B94	97 in	459M51
B (21/32" Top Width by 13/32" Thick) (Cont.)		
B95	98 in	459M52
B96	99 in	459M53
B97	100 in	459M54
B98	101 in	459M55
B99	102 in	459M56
B100	103 in	459L43
B101	104 in	459L44
B102	105 in	459L45
B103	106 in	459L46
B104	107 in	459L47
B105	108 in	459L48
B106	109 in	459L49
B108	111 in	459L50
B110	113 in	459L51
B111	114 in	459L52
B112	115 in	459L53
B114	117 in	459L54
B115	118 in	459L55
B116	119 in	459L56
B118	121 in	459L57
B120	123 in	459L58
B123	126 in	459L59
B124	127 in	459L60
B126	129 in	459L61
B128	131 in	459L62
B130	133 in	459L63
B133	136 in	459L64
B135	138 in	459L65
B136	139 in	459L66
B138	141 in	458U02
B140	143 in	459L67
B142	145 in	459L68
B144	147 in	459L69
B148	151 in	459L70
B150	153 in	459L71
B154	157 in	459L72
B158	161 in	459L73
B162	165 in	459L74
B166	169 in	488Z75
B173	176 in	459L75
B180	183 in	459L76
B190	193 in	459L77
B195	198 in	459L78
B210	213 in	459L79
B240	242 in	459L80
C (7/8" Top Width by 17/32" Nom. Thickness)		
C75	79 in	459M76
C85	89 in	459M78
C90	94 in	459M79
C96	100 in	459M80
C105	109 in	459M60
C109	113 in	459M61
C (7/8" Top Width by 17/32" Nom. Thickness) (Cont.)		
C112	116 in	459M62
C115	119 in	459M63
C120	124 in	459M64
C124	128 in	459G70
C128	132 in	459M65
C136	140 in	459M66
C144	148 in	459M67
C150	154 in	459M68
C158	162 in	459M69
C162	166 in	459M70
C173	177 in	459M71
C180	184 in	459M72
C210	214 in	459M74
C240	242 in	459G91
C255	257 in	459G92
3V (3/8" Top Width by 5/16" Nom. Thickness)		
3V315	31 in	459J21
3V335	33 in	459J22
3V355	35 in	459J23
3V375	37 in	459J24
3V475	47 in	459J27
3V500	50 in	459J28
3V530	53 in	459J29
3V560	56 in	459J30
3V600	60 in	459J31
3V630	63 in	459J32
3V670	67 in	459J33
3V710	71 in	459J34
3V750	75 in	459J35
3V800	80 in	459J36
3V900	90 in	459J37
5V (5/8" Top Width by 17/32" Nom. Thickness)		
5V710	71 in	459K47
5V750	75 in	459K48
5V850	85 in	459K49
5V900	90 in	459K50
5V950	95 in	459K51
5V1000	100 in	459K38
5V1060	106 in	459K39
5V1120	112 in	459K40
5V1180	118 in	458T68
5V1250	125 in	459K41
5V1320	132 in	459K42
5V1400	140 in	459K43
5V1500	150 in	459K44
5V1600	160 in	458T69
5V1700	170 in	459K45
5V2120	212 in	459K46
5V2360	236 in	458T74
5V2500	250 in	458T75
5V2800	280 in	458T77



Continental
ContiTech

AX, BX, CX, 3VX, and 5VX Raw Edge Cogged V-Belts

Torque-Flex and HY-T Wedge belts are fully cogged to provide the flexibility needed to keep their high-traction rubber edges in contact with the sheave grooves, helping you achieve the horsepower you need at a lower total drive cost. Produced with highly engineered oil- and heat-resistant and static-conductive EPDM, providing a broader temperature range than ever before (-40° to 230°F). Built to Matchmaker specifications so all belts of the same size are within the matching tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com.

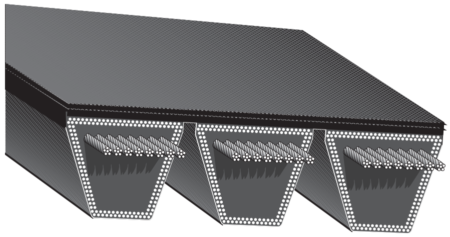
Industry No.	Outside L	Item No.
AX (1/2" Top Width by 5/16" Thick)		
AX20	22 in	**459N66**
AX21	23 in	**459N67**
AX22	24 in	**459N68**
AX23	25 in	**459N69**
AX24	26 in	**459N70**
AX25	27 in	**459N71**
AX26	28 in	**459N72**
AX27	29 in	**459N73**
AX28	30 in	**459N74**
AX29	31 in	**459N75**
AX30	32 in	**459N76**
AX31	33 in	**459N77**
AX32	34 in	**459N78**
AX33	35 in	**459N79**
AX34	36 in	**459N80**
AX35	37 in	**459N81**
AX36	38 in	**459N82**
AX37	39 in	**459N83**
AX38	40 in	**459N84**
AX39	41 in	**459N85**
AX40	42 in	**459N86**
AX41	43 in	**459N87**
AX42	44 in	**459N88**
AX43	45 in	**459N89**
AX44	46 in	**459N90**
AX45	47 in	**459N91**
AX46	48 in	**459N92**
AX47	49 in	**459N93**
AX48	50 in	**459N94**
AX49	51 in	**459N95**
AX50	52 in	**459N96**
AX51	53 in	**459N97**
AX52	54 in	**459N98**
AX53	55 in	**459N99**
AX54	56 in	**459P01**
AX55	57 in	**459P02**
AX56	58 in	**459P03**
AX57	59 in	**459P04**
AX58	60 in	**459P05**
AX59	61 in	**459P06**
AX60	62 in	**459P07**
AX61	63 in	**459P08**
AX62	64 in	**459P09**
AX63	65 in	**459P10**
AX64	66 in	**459P11**
AX65	67 in	**459P12**
AX66	68 in	**459P13**
AX67	69 in	**459P14**
AX68	70 in	**459P15**
AX69	71 in	**459P16**
AX70	72 in	**459P17**
AX71	73 in	**459P18**
AX72	74 in	**459P19**
AX73	75 in	**459P20**
AX74	76 in	**488Z77**
AX75	77 in	**459P21**
AX77	79 in	**459P22**
AX78	80 in	**459P23**
AX79	81 in	**459P24**
AX80	82 in	**459P25**
AX81	83 in	**485D36**
AX82	84 in	**459P26**
AX83	85 in	**459P27**
AX85	87 in	**459P28**
AX86	88 in	**459P29**
AX87	89 in	**459P30**
AX88	90 in	**459P31**
AX90	92 in	**459P32**
AX93	95 in	**485D37**
AX95	97 in	**459P33**
AX96	98 in	**459P34**
AX105	107 in	**459N64**
AX120	122 in	**459N65**

Industry No.	Outside L	Item No.
BX (21/32" Top Width by 13/32" Thick)		
BX27	30 in	**459P57**
BX28	31 in	**459P58**
BX29	32 in	**459P59**
BX30	33 in	**459P60**
BX31	34 in	**459P61**
BX32	35 in	**459P62**
BX33	36 in	**459P63**
BX34	37 in	**459P64**
BX35	38 in	**459P65**
BX36	39 in	**459P66**
BX37	40 in	**459P67**
BX38	41 in	**459P68**
BX39	42 in	**459P69**
BX40	43 in	**459P70**
BX41	44 in	**459P71**
BX42	45 in	**459P72**
BX43	46 in	**459P73**
BX44	47 in	**459P74**
BX45	48 in	**459P75**
BX46	49 in	**459P76**
BX47	50 in	**459P77**
BX48	51 in	**459P78**
BX49	52 in	**459P79**
BX50	53 in	**459P80**
BX51	54 in	**459P81**
BX52	55 in	**459P82**
BX53	56 in	**459P83**
BX54	57 in	**459P84**
BX55	58 in	**459P85**
BX56	59 in	**459P86**
BX57	60 in	**459P87**
BX58	61 in	**459P88**
BX59	62 in	**459P89**
BX60	63 in	**459P90**
BX61	64 in	**459P91**
BX62	65 in	**459P92**
BX63	66 in	**459P93**
BX64	67 in	**459P94**
BX65	68 in	**459P95**
BX66	69 in	**459P96**
BX67	70 in	**459P97**
BX68	71 in	**459P98**
BX70	73 in	**459P99**
BX71	74 in	**459R01**
BX72	75 in	**459R02**
BX73	76 in	**459R03**
BX74	77 in	**459R04**
BX75	78 in	**459R05**
BX76	79 in	**459R06**
BX77	80 in	**459R07**
BX78	81 in	**459R08**
BX79	82 in	**459R09**
BX80	83 in	**459R10**
BX81	84 in	**459R11**
BX82	85 in	**459R12**
BX83	86 in	**459R13**
BX84	87 in	**459R14**
BX85	88 in	**459R15**
BX86	89 in	**459R16**
BX87	90 in	**459R17**
BX88	91 in	**459R18**
BX89	92 in	**459R19**
BX90	93 in	**459R20**
BX91	94 in	**459R21**
BX92	95 in	**459R22**
BX93	96 in	**459R23**
BX94	97 in	**459R24**
BX95	98 in	**459R25**
BX96	99 in	**459R26**
BX97	100 in	**459R27**
BX98	101 in	**485D41**
BX99	102 in	**459R28**
BX100	103 in	**459P35**
BX103	106 in	**459P36**
BX105	108 in	**459P37**
BX106	109 in	**459P38**
BX108	111 in	**459P39**
BX112	115 in	**459P40**

Industry No.	Outside L	Item No.
BX (21/32" Top Width by 13/32" Thick) (Cont.)		
BX113	116 in	**459P41**
BX115	118 in	**459P42**
BX116	119 in	**459P43**
BX120	123 in	**459P44**
BX123	126 in	**485D38**
BX124	127 in	**459P45**
BX126	129 in	**459P46**
BX128	131 in	**459P47**
BX133	136 in	**459P48**
BX136	139 in	**459P49**
BX144	147 in	**459P50**
BX148	151 in	**485D39**
BX150	153 in	**459P51**
BX154	157 in	**485D40**
BX158	161 in	**459P52**
BX162	165 in	**459P53**
BX173	176 in	**459P54**
BX180	183 in	**459P55**
BX195	198 in	**459P56**
BX240	243 in	**459H55**
CX (7/8" Top Width by 17/32" Thick)		
CX90	94 in	**459R35**
CX105	109 in	**459R29**
CX112	116 in	**459R30**
CX120	124 in	**459R31**
CX128	132 in	**459R32**
CX136	140 in	**459R33**
CX144	148 in	**459R34**
3VX (3/8" Top Width by 5/16" Thick)		
3VX250	25 in	**459M86**
3VX265	26.5 in	**459M87**
3VX280	28 in	**459M88**
3VX300	30 in	**459M89**
3VX315	31.5 in	**459M90**
3VX335	33.5 in	**459M91**
3VX355	35.5 in	**459M92**
3VX375	37.5 in	**459M93**
3VX400	40 in	**459M94**
3VX425	42.5 in	**459M95**
3VX450	45 in	**459M96**
3VX475	47.5 in	**459M97**
3VX500	50 in	**459M98**
3VX530	53 in	**459M99**
3VX560	56 in	**459N01**
3VX600	60 in	**459N02**
3VX630	63 in	**459N03**
3VX670	67 in	**459N04**
3VX710	71 in	**459N05**
3VX750	75 in	**459N06**
3VX800	80 in	**459N07**
3VX850	85 in	**459N08**
3VX900	90 in	**459N09**
3VX950	95 in	**459N10**
3VX1000	100 in	**459M81**
3VX1060	106 in	**459M82**
3VX1120	112 in	**459M83**
3VX1180	118 in	**459M84**
3VX1250	125 in	**459M85**

Industry No.	Outside L	Item No.
5VX (5/8" Top Width by 17/32" Thick)		
5VX450	45 in	**459N28**
5VX470	47 in	**459N29**
5VX490	49 in	**459N30**
5VX500	50 in	**459N31**
5VX510	51 in	**459N32**
5VX530	53 in	**459N33**
5VX540	54 in	**459N34**
5VX550	55 in	**459N35**
5VX560	56 in	**459N36**
5VX570	57 in	**459N37**
5VX580	58 in	**459N38**
5VX590	59 in	**459N39**
5VX600	60 in	**459N40**
5VX610	61 in	**459N41**
5VX630	63 in	**459N42**
5VX650	65 in	**459N43**
5VX660	66 in	**459N44**
5VX670	67 in	**459N45**
5VX680	68 in	**459N46**
5VX690	69 in	**459N47**
5VX710	71 in	**459N48**
5VX730	73 in	**459N49**
5VX740	74 in	**459N50**
5VX750	75 in	**459N51**
5VX780	78 in	**459N52**
5VX800	80 in	**459N53**
5VX810	81 in	**459N54**
5VX830	83 in	**459N55**
5VX840	84 in	**459N56**
5VX850	85 in	**459N57**
5VX860	86 in	**459N58**
5VX880	88 in	**459N59**
5VX900	90 in	**459N60**
5VX930	93 in	**459N61**
5VX950	95 in	**459N62**
5VX960	96 in	**459N63**
5VX1000	100 in	**459N11**
5VX1030	103 in	**459N12**
5VX1060	106 in	**459N13**
5VX1080	108 in	**459N14**
5VX1120	112 in	**459N15**
5VX1150	115 in	**459N16**
5VX1180	118 in	**459N17**
5VX1230	123 in	**459N18**
5VX1250	125 in	**459N19**
5VX1320	132 in	**459N20**
5VX1400	140 in	**459N21**
5VX1500	150 in	**459N22**
5VX1600	160 in	**459N23**
5VX1700	170 in	**459N24**
5VX1800	180 in	**459N25**
5VX1900	190 in	**459N26**
5VX2000	200 in	**459N27**

Find more information on V-Belts on page 97.



Continental ContiTech

Banded Cogged V-Belts

HY-T Torque Team belts are designed and built to deliver superior performance. Belts provide high-strength and high-horsepower capacity. The tough fabric backing provides the maximum longitudinal flexibility and lateral strength to withstand the dynamic forces acting on the belt. Static conductive and resistant to heat, oil, ozone, and abrasion. Ideal for pulsating loads, high-capacity drives, and short center heavy-duty drives. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). For additional sizes, go to Grainger.com.

Industry No.	Outside L	Item No.
BX 2 Rib (1 21/64" Top Width by 13/32" Thick)		
2/BX46	49 in	**458V37**
2/BX48	51 in	**458V38**
2/BX50	53 in	**458V39**
2/BX51	54 in	**458V40**
2/BX52	55 in	**458V41**
2/BX53	56 in	**458V42**
2/BX54	57 in	**458V43**
2/BX57	60 in	**458V46**
2/BX58	61 in	**458V47**
2/BX59	62 in	**458V48**
2/BX61	64 in	**458V49**
2/BX63	66 in	**458V51**
2/BX64	67 in	**458V52**
2/BX65	68 in	**458V53**
2/BX67	70 in	**458V54**
2/BX68	71 in	**458V55**
2/BX70	73 in	**458V56**
2/BX71	74 in	**458V57**
2/BX72	75 in	**458V58**
2/BX73	76 in	**458V59**
2/BX74	77 in	**458V60**
2/BX75	78 in	**458V61**
2/BX77	80 in	**458V62**
2/BX78	81 in	**458V63**
2/BX79	82 in	**458V64**
2/BX80	83 in	**458V65**
2/BX81	84 in	**458V66**
2/BX82	85 in	**458V67**
2/BX83	86 in	**458V68**
2/BX85	88 in	**458V69**
2/BX87	90 in	**458V70**
2/BX88	91 in	**458V71**
2/BX90	93 in	**458V72**
2/BX93	96 in	**458V73**
2/BX95	98 in	**458V74**
2/BX99	102 in	**458V76**
2/BX100	103 in	**458V12**
2/BX108	111 in	**459G57**
2/BX110	113 in	**458V15**
2/BX112	115 in	**459G58**
2/BX120	123 in	**459G59**
2/BX128	131 in	**459G60**

Industry No.	Outside L	Item No.
BX 3 Rib (1 63/64" Top Width by 13/32" Thick)		
3/BX46	49 in	**458X38**
3/BX48	51 in	**458X39**
3/BX50	53 in	**458X40**
3/BX52	55 in	**458X41**
3/BX53	56 in	**458X42**
3/BX54	57 in	**458X43**
3/BX57	60 in	**458X46**
3/BX58	61 in	**458X47**
3/BX59	62 in	**458X48**
3/BX61	64 in	**458X50**
3/BX63	66 in	**458X52**
3/BX64	67 in	**458X53**
3/BX66	69 in	**458X54**
3/BX67	70 in	**458X55**
3/BX68	71 in	**458X56**
3/BX70	73 in	**458X57**
3/BX71	74 in	**458X58**
3/BX72	75 in	**458X59**
3/BX73	76 in	**458X60**
3/BX74	77 in	**458X61**
3/BX75	78 in	**458X62**
3/BX77	80 in	**458X63**
3/BX78	81 in	**458X64**
3/BX79	82 in	**458X65**
3/BX80	83 in	**458X66**
3/BX81	84 in	**458X67**
3/BX82	85 in	**458X68**
3/BX87	90 in	**458X69**
3/BX88	91 in	**458X70**
3/BX90	93 in	**458X71**
3/BX93	96 in	**458X72**
3/BX99	102 in	**458X74**
BX 4 Rib (2 41/64" Top Width by 13/32" Thick)		
4/BX46	49 in	**458Z43**
4/BX48	51 in	**458Z44**
4/BX50	53 in	**458Z45**
4/BX51	54 in	**458Z46**
4/BX52	55 in	**458Z47**
4/BX53	56 in	**458Z48**
4/BX54	57 in	**458Z49**
4/BX57	60 in	**458Z52**
4/BX58	61 in	**458Z53**
4/BX59	62 in	**458Z54**

Industry No.	Outside L	Item No.
BX 4 Rib (2 41/64" Top Width by 13/32" Thick) (Cont.)		
4/BX60	63 in	**458Z55**
4/BX61	64 in	**458Z56**
4/BX63	66 in	**458Z58**
4/BX64	67 in	**458Z59**
4/BX65	68 in	**458Z60**
4/BX66	69 in	**458Z61**
4/BX67	70 in	**458Z62**
4/BX68	71 in	**458Z63**
4/BX70	73 in	**458Z64**
4/BX71	74 in	**458Z65**
4/BX72	75 in	**458Z66**
4/BX73	76 in	**458Z67**
4/BX74	77 in	**458Z68**
4/BX75	78 in	**458Z69**
4/BX77	80 in	**458Z70**
4/BX78	81 in	**458Z71**
4/BX79	82 in	**458Z72**
4/BX80	83 in	**458Z73**
4/BX81	84 in	**458Z74**
4/BX82	85 in	**458Z75**
4/BX83	86 in	**458Z76**
4/BX85	88 in	**458Z77**
4/BX87	90 in	**458Z78**
4/BX90	93 in	**458Z79**
4/BX93	96 in	**458Z80**
4/BX95	98 in	**458Z81**
4/BX99	102 in	**458Z83**
4/BX100	103 in	**458Z19**
4/BX108	111 in	**458Z22**
4/BX110	113 in	**458Z23**
BX 5 Rib (3 19/64" Top Width by 13/32" Thick)		
5/BX46	49 in	**459C52**
5/BX48	51 in	**459C53**
5/BX50	53 in	**459C54**
5/BX51	54 in	**459C55**
5/BX52	55 in	**459C56**
5/BX53	56 in	**459C57**
5/BX54	57 in	**459C58**
5/BX55	58 in	**459C59**
5/BX56	59 in	**459C60**
5/BX57	60 in	**459C61**
5/BX58	61 in	**459C62**
5/BX59	62 in	**459C63**
5/BX60	63 in	**459C64**
5/BX61	64 in	**459C65**

Industry No.	Outside L	Item No.
BX 5 Rib (3 19/64" Top Width by 13/32" Thick) (Cont.)		
5/BX62	65 in	**459C66**
5/BX63	66 in	**459C67**
5/BX64	67 in	**459C68**
5/BX65	68 in	**459C69**
5/BX66	69 in	**459C70**
5/BX67	70 in	**459C71**
5/BX68	71 in	**459C72**
5/BX70	73 in	**459C73**
5/BX71	74 in	**459C74**
5/BX72	75 in	**459C75**
5/BX73	76 in	**459C76**
5/BX74	77 in	**459C77**
5/BX75	78 in	**459C78**
5/BX77	80 in	**459C79**
5/BX78	81 in	**459C80**
5/BX79	82 in	**459C81**
5/BX80	83 in	**459C82**
5/BX81	84 in	**459C83**
5/BX82	85 in	**459C84**
5/BX83	86 in	**459C85**
5/BX85	88 in	**459C86**
5/BX87	90 in	**459C87**
5/BX90	93 in	**459C88**
5/BX93	96 in	**459C89**
5/BX95	98 in	**459C90**
5/BX97	100 in	**459C92**
5/BX99	102 in	**459C93**
5/BX100	103 in	**459C28**
5/BX108	111 in	**459C31**
5/BX110	113 in	**459C32**
BX 6 Rib (3 31/32" Top Width by 13/32" Thick)		
6/BX46	49 in	**459F57**
6/BX48	51 in	**459F58**
6/BX50	53 in	**459F59**
6/BX51	54 in	**459F60**
6/BX52	55 in	**459F61**
6/BX54	57 in	**459F62**
6/BX55	58 in	**459F63**
6/BX57	60 in	**459F64**
6/BX58	61 in	**459F65**
6/BX60	63 in	**459F66**
6/BX61	64 in	**459F67**
6/BX62	65 in	**459F68**
6/BX63	66 in	**459F69**
6/BX64	67 in	**459F70**

Industry No.	Outside L	Item No.
BX 6 Rib (3 31/32" Top Width by 13/32" Thick) (Cont.)		
6/BX65	68 in	**459F71**
6/BX66	69 in	**459F72**
6/BX67	70 in	**459F73**
6/BX68	71 in	**459F74**
6/BX70	73 in	**459F75**
6/BX71	74 in	**459F76**
6/BX72	75 in	**459F77**
6/BX73	76 in	**459F78**
6/BX74	77 in	**459F79**
6/BX75	78 in	**459F80**
6/BX77	80 in	**459F81**
6/BX78	81 in	**459F82**
6/BX79	82 in	**459F83**
6/BX80	83 in	**459F84**
6/BX81	84 in	**459F85**
6/BX82	85 in	**459F86**
6/BX83	86 in	**459F87**
6/BX85	88 in	**459F88**
6/BX87	90 in	**459F89**
6/BX90	93 in	**459F90**
6/BX93	96 in	**459F91**
6/BX95	98 in	**459F92**
6/BX97	100 in	**459F93**
6/BX99	102 in	**459F94**
6/BX100	103 in	**459F36**
6/BX108	111 in	**459F39**
3VX 3 Rib (1 9/64" Top Width by 5/16" Thick)		
3/3VX750	75 in	**458W46**
3/3VX950	95 in	**458W49**
3VX 4 Rib (1 33/64" Top Width by 5/16" Thick)		
4/3VX800	80 in	**458Y48**
4/3VX1120	112 in	**458Y31**
3VX 6 Rib (2 9/32" Top Width by 5/16" Thick)		
6/3VX1000	100 in	**459D49**
5VX 2 Rib (1 15/64" Top Width by 17/32" Thick)		
2/5VX530	53 in	**458U70**
2/5VX600	60 in	**458U72**
2/5VX630	63 in	**458U73**
5VX 3 Rib (1 7/8" Top Width by 17/32" Thick)		
3/5VX560	56 in	**458W75**

Continental ContiTech

Banded V-Belts

Constructed of multiple V-belts fused together to create ribs in a V-belt with reinforced backing. They offer more stability than multiple, single V-belts, and provide additional protection against heat and oil. Belts are used in applications where multiple V-belts are needed but speed fluctuations, misalignment, and vibration might cause single belts to whip, turn over, or slide off the pulley.

B Section—Have a classical design and are for use with drive systems that require power transmission of 1 HP or greater.

5V Section and 8V Section—Belts have a wedge design and have a smaller top width and a deeper profile than classical V-belts. They can transfer higher power than classical V-belts of the same size.

Industry No.	Outside L	Item No.
B 2 Rib (1 21/64" Top Width by 13/32" Thick)		
2/B124	127 in	**458V20**
2/B136	139 in	**458V23**
2/B148	151 in	**458V26**
2/B150	153 in	**458V27**
B 3 Rib (1 63/64" Top Width by 13/32" Thick)		
3/B116	119 in	**458X20**
3/B148	151 in	**458X28**
3/B158	161 in	**458X30**
B 4 Rib (2 41/64" Top Width by 13/32" Thick)		
4/B128	131 in	**458Z28**
4/B136	139 in	**458Z30**
4/B158	161 in	**458Z35**
B 5 Rib (3 19/64" Top Width by 13/32" Thick)		
5/B158	161 in	**459C44**
B 6 Rib (3 31/32" Top Width by 13/32" Thick)		
6/B136	139 in	**459F45**
6/B144	147 in	**459F47**
6/B148	151 in	**459M58**
6/B158	161 in	**459F49**
6/B173	176 in	**459F51**

Industry No.	Outside L	Item No.
B 8 Rib (5 29/32" Top Width by 13/32" Thick)		
8/B195	198 in	**459G56**
5V 4 Rib (2 31/64" Top Width by 17/32" Thick)		
4/5V1400	140 in	**458Y58**
4/5V1800	180 in	**458Y62**
5V 5 Rib (3 7/64" Top Width by 17/32" Thick)		
5/5V1900	190 in	**459A72**
5/5V2360	236 in	**459A76**
8V 2 Rib (2" Top Width by 29/32" Thick)		
2/8V2360	236 in	**458U96**
2/8V2500	250 in	**458U97**
8V 3 Rib (3" Top Width by 29/32" Thick)		
3/8V1060	106 in	**458W86**
8V 5 Rib (5" Top Width by 29/32" Thick)		
5/8V1060	106 in	**459A97**
8V 6 Rib (6" Top Width by 29/32" Thick)		
6/8V1120	112 in	**459F07**
6/8V1800	180 in	**459F15**
6/8V2240	224 in	**459F19**
6/8V2500	250 in	**459F21**

Metric Raw-Edge Cogged V-Belts

Suitable for industrial applications such as textile mills, machine applications, and food processing, where metric cross sections are required. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). SPA, SPB, SPC, and XPC belt types are available on Grainger.com.

Industry No.	Outside L	Item No.
XPZ (10mm Top Width by 8mm Thick)		
XPZ787	787 mm	**1NJU4**
XPZ850	850 mm	**1NKB4**
XPZ862	862 mm	**1NKG6**
XPZ925	925 mm	**1NJZ4**
XPZ950	950 mm	**1NJP8**
XPZ987	987 mm	**1NJX3**
XPZ1012	1,012 mm	**1NJW5**
XPZ1060	1,060 mm	**1NJW6**
XPZ1087	1,087 mm	**1NKE5**
XPZ1120	1,120 mm	**1NJV8**
XPZ1137	1,137 mm	**1NJY1**
XPZ1150	1,150 mm	**1NKC8**
XPZ1180	1,180 mm	**1NJR4**
XPZ1202	1,202 mm	**1NKB5**
XPZ1212	1,212 mm	**1NJY8**
XPZ1250	1,250 mm	**1NKA8**
XPZ1270	1,270 mm	**1NKA2**
XPZ1287	1,287 mm	**1NKG3**
XPZ1312	1,312 mm	**1NJR3**
XPZ1320	1,320 mm	**1NJX8**
XPZ1340	1,340 mm	**1NKE4**
XPZ1400	1,400 mm	**1NJT3**
XPZ1450	1,450 mm	**1NKC6**
XPZ1500	1,500 mm	**1NKD5**
XPZ1512	1,512 mm	**1NKC3**
XPZ1562	1,562 mm	**1NJY4**
XPZ1587	1,587 mm	**1NKA6**
XPZ1700	1,700 mm	**1NJP5**
XPZ1750	1,750 mm	**1NKE2**
XPZ1800	1,800 mm	**1NJZ3**
XPZ1900	1,900 mm	**1NJU2**
XPZ1950	1,950 mm	**1NJR9**
XPZ2000	2,000 mm	**1NJT2**
XPZ2120	2,120 mm	**1NJT9**
XPZ2240	2,240 mm	**1NKB1**
XPZ2500	2,500 mm	**1NKG7**
XPA (13mm Top Width by 10mm Thick)		
XPA1000	1,000 mm	**1NJV4**
XPA1032	1,032 mm	**1NJV7**
XPA1060	1,060 mm	**1NJN8**
XPA1120	1,120 mm	**1NJV2**
XPA1150	1,150 mm	**1NJV5**
XPA1157	1,157 mm	**1NKJ4**
XPA1180	1,180 mm	**1NKA4**
XPA1207	1,207 mm	**1NJZ5**
XPA1232	1,232 mm	**1NJZ6**
XPA1250	1,250 mm	**1NJV9**
XPA1307	1,307 mm	**1NJW8**
XPA1320	1,320 mm	**1NKC1**
XPA1357	1,357 mm	**1NKB2**
XPA1400	1,400 mm	**1NJU1**
XPA1432	1,432 mm	**1NJU9**
XPA1457	1,457 mm	**1NJW1**
XPA1500	1,500 mm	**1NJV3**
XPA1532	1,532 mm	**1NKA1**
XPA1550	1,550 mm	**1NKF7**
XPA1600	1,600 mm	**1NJT4**
XPA1632	1,632 mm	**1NJN7**
XPA1700	1,700 mm	**1NJR6**
XPA1732	1,732 mm	**1NKF4**
XPA1757	1,757 mm	**1NKG2**
XPA1800	1,800 mm	**1NJR7**
XPA1832	1,832 mm	**1NJU7**
XPA1857	1,857 mm	**1NKG1**
XPA1900	1,900 mm	**1NJT5**
XPA1950	1,950 mm	**1NKH1**
XPA2000	2,000 mm	**1NJU6**
XPA2120	2,120 mm	**1NJT7**
XPA2182	2,182 mm	**1NKB9**
XPA2240	2,240 mm	**1NKC7**
XPA2300	2,300 mm	**1NKB3**
XPA2360	2,360 mm	**1NJP3**
XPA2382	2,382 mm	**1NKK2**
XPA (13mm Top Width by 10mm Thick) (Cont.)		
XPA2650	2,650 mm	**1NJX9**
XPA2682	2,682 mm	**1NKE1**
XPA2800	2,800 mm	**1NJY9**
XPB (17mm Top Width by 13mm Thick)		
XPB1250	1,250 mm	**1NJZ8**
XPB1320	1,320 mm	**1NKF9**
XPB1340	1,340 mm	**1NKH9**
XPB1400	1,400 mm	**1NJZ9**
XPB1500	1,500 mm	**1NJU8**
XPB1590	1,590 mm	**1NJZ1**
XPB1627	1,627 mm	**1NKJ9**
XPB1700	1,700 mm	**1NJP6**
XPB1800	1,800 mm	**1NJR2**
XPB1900	1,900 mm	**1NJR5**
XPB2000	2,000 mm	**1NJT6**
XPB2020	2,020 mm	**1NKD1**
XPB2120	2,120 mm	**1NJR1**
XPB2150	2,150 mm	**1NKB6**
XPB2180	2,180 mm	**1NKF5**
XPB2240	2,240 mm	**1NJP9**
XPB2280	2,280 mm	**1NKG4**
XPB2360	2,360 mm	**1NJP4**
XPB2410	2,410 mm	**1NJX1**
XPB2500	2,500 mm	**1NJP2**
XPB2530	2,530 mm	**1NKA7**
XPB2650	2,650 mm	**1NJP1**
XPB2680	2,680 mm	**1NKD2**
XPB2800	2,800 mm	**1NJP7**
XPB3000	3,000 mm	**1NJR8**
XPC (22mm Top Width by 18mm Thick)		
XPC2800	2,800 mm	**1NJW4**

Metric V-Belts

- Wrapped construction for wear and oil resistance

These heat-, oil-, ozone-, and flame-resistant V-belts help transfer motion between pulleys with metric cross sections. Suitable for use in industrial applications such as textile mills, machine applications, and food processing plants. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Outside L	Item No.
SPB 1 Rib (17mm Top Width by 13mm Thick)		
SPB3150	3,150 mm	**1NJW2**
SPB3350	3,350 mm	**1NJU3**
SPB3550	3,550 mm	**1NJY7**
SPB3750	3,750 mm	**1NJN9**
SPB3800	3,800 mm	**1NKJ1**
SPB4000	4,000 mm	**1NJW7**
SPB4250	4,250 mm	**1NJY6**
SPB4500	4,500 mm	**1NKC5**
SPC 1 Rib (22mm Top Width by 18mm Thick)		
SPC3350	3,350 mm	**1NJY5**
SPC3550	3,550 mm	**1NJX5**
SPC3750	3,750 mm	**1NKC9**
SPC4000	4,000 mm	**1NJU5**
SPC4250	4,250 mm	**1NJX4**
SPC4750	4,750 mm	**1NJV6**
SPC5300	5,300 mm	**1NKJ7**
SPC5600	5,600 mm	**1NJZ7**
SPC6000	6,000 mm	**1NJW3**
SPC6700	6,700 mm	**1NKB7**
SPC7500	7,500 mm	**1NJT8**
SPC8500	8,500 mm	**1NKG5**

3HEU3

Variable Speed Belts

Oil- and heat-resistant top cover for dimensional stability. Use with belt systems that have smaller pulleys, wide speed ranges, high-horsepower demands, or high-heat applications. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Top Width	Outside L	Groove Angle	Item No.
1228V255	¾"	26"	28 °	**3HEU3**
1422V290	⅞"	29½"	22 °	**3HEU4**
1626V290	1"	29½"	26 °	**3HEU5**
1922V277	1³⁄₁₆"	28¹³⁄₃₂"	22 °	**3HEU6**
1922V298	1³⁄₁₆"	30¹³⁄₃₂"	22 °	**3HEU7**
1922V338	1³⁄₁₆"	34¹³⁄₃₂"	22 °	**3HEU8**
1922V363	1³⁄₁₆"	36²⁹⁄₃₂"	22 °	**3HEU9**
1922V386	1³⁄₁₆"	39¼"	22 °	**3HEV1**
1922V403	1³⁄₁₆"	40²⁹⁄₃₂"	22 °	**3HEV2**
1922V426	1³⁄₁₆"	43¼"	22 °	**3HEV3**
1922V443	1³⁄₁₆"	44²⁹⁄₃₂"	22 °	**3HEV4**
1922V454	1³⁄₁₆"	46"	22 °	**3HEV5**
1922V484	1³⁄₁₆"	49"	22 °	**3HEV6**
1922V526	1³⁄₁₆"	53¼"	22 °	**3HEV7**
1922V544	1³⁄₁₆"	55"	22 °	**3HEV8**
1922V604	1³⁄₁₆"	61"	22 °	**3HEV9**
2230V273	1⅜"	28"	30 °	**3HEW1**
2230V275	1⅜"	28¼"	30 °	**3HEW2**
2230V345	1⅜"	35⁹⁄₃₂"	30 °	**3HEW3**
2322V441	1⁷⁄₁₆"	44¾"	22 °	**3HEW4**
2322V481	1⁷⁄₁₆"	48²⁹⁄₃₂"	22 °	**3HEW5**
2322V541	1⁷⁄₁₆"	54¾"	22 °	**3HEW6**
2322V601	1⁷⁄₁₆"	60²⁹⁄₃₂"	22 °	**3HEW7**
2426V343	1½"	35"	26 °	**3HEW8**
2428V345	1½"	35¼"	28 °	**3HEW9**
2430V345	1½"	35¼"	30 °	**3HEX1**
2430V354	1½"	36⁹⁄₃₂"	30 °	**3HEX2**
2830V363	1¾"	37¼"	30 °	**3HEX3**

Micro Ribbed V-Belts for Compressors

These 6-rib belts are for many Dayton, Speedaire, and other brand compressors. High tensile strength; oil and heat resistant. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Top Width	Outside L	Item No.
410J6	⁹⁄₁₆ in	41 in	**3X707**
460J6	⁹⁄₁₆ in	46 in	**3X655**
490J6	⁹⁄₁₆ in	49 in	**3X542**

V-Belt Accessories

6AGK5

6AGK6

6AGK7

10Y311

Wall Rack—36"L with mounting holes and includes six 6" hooks. Not for V-belts over 72"L.

Rule—Aluminum slide adjustment and measures (3L, 4L, 5L, A, B, 3V, and 5V) V-belts up to 100". With mounting holes.

Tension Checker—Compact, spring-loaded. Adjustable for 10" to 170" belt span and up to 35 lb. of tension.

Sheave Groove Gauge—Handy tool lets you quickly check belt section and sheave groove wear.

Description	Brand	Item No.
Wall Rack	Power Drive	**6AGK5**
Rule	Power Drive	**6AGK6**
Tension Checker	Power Drive	**6AGK7**
Sheave Groove Gauge	TB Woods	**10Y311**

1DHH8

Timing Belts

- XL, L, H, and HT Series
- For timing belt pulleys, see page 114

Quiet operating, low-maintenance synchronous timing belts ensure nonslip, positive performance with low tension requirements.

XL Series—Fiberglass cords have seamless construction for smooth operation and to reduce vibration. They can be installed on trapezoidal tooth pulleys, but the style (or series), pitch, and width of the belt must be compatible with the pulley. For general purpose applications requiring low to moderate amounts of torque.

L Series—Strong fiberglass cords won't stretch for long life and they can be installed on trapezoidal tooth pulleys, but the style (or series), pitch, and width of the belt must be compatible with the pulley. For general purpose applications requiring low to moderate amounts of torque.

L Series (Double-Sided)—Provide power from both sides in serpentine drives and have neoprene teeth that engage the pulley grooves for precise synchronization from both sides of the belt for long life. For general-purpose applications requiring low to moderate amounts of torque.

H Series—Heat-resistant neoprene teeth provide full surface contact between belt and pulley for smooth operation and the seamless construction reduces vibration. For general purpose applications requiring low to moderate amounts of torque.

HT Series—Belts have teeth with a curved profile that provides more strength and produces less backlash (the clearance between the timing belt teeth and timing belt pulley grooves) than trapezoidal-tooth timing belts. For use on power tools, postal equipment, sewing machines, ticket dispensers, vacuum cleaners, and vending machines.

Note: 50mm, 85mm, and 115mm wide timing belts are available on Grainger.com; search for "timing belts" and Filter Results by desired width.

Industry No.	Pitch Length	Brand	Item No.
XL Series, ⅕ in Pitch, ¼ in Wide, Single Sided			
60XL025	6 in	Dayton	**1DHE7**
70XL025	7 in	Dayton	**1DHE8**
80XL025	8 in	Dayton	**1DHE9**
90XL025	9 in	Dayton	**1DHF1**
100XL025	10 in	Dayton	**1DHF2**
110XL025	11 in	Dayton	**1DHF3**
120XL025	12 in	Dayton	**1DHF4**
130XL025	13 in	Dayton	**1DHF5**
140XL025	14 in	Dayton	**1DHF6**
150XL025	15 in	Dayton	**1DHF7**
160XL025	16 in	Dayton	**1DHF8**
170XL025	17 in	Dayton	**1DHF9**
180XL025	18 in	Dayton	**1DHG1**
190XL025	19 in	Dayton	**1DHG2**
200XL025	20 in	Dayton	**1DHG3**
210XL025	21 in	Dayton	**1DHG4**
220XL025	22 in	Dayton	**1DHG5**
230XL025	23 in	Dayton	**1DHG6**
240XL025	24 in	Dayton	**1DHG7**
250XL025	25 in	Dayton	**1DHG8**
260XL025	26 in	Dayton	**1DHG9**

Industry No.	Pitch Length	Brand	Item No.
XL Series, ⅕ in Pitch, ⅜ in Wide, Single Sided			
60XL037	6 in	Dayton	**1DHH1**
70XL037	7 in	Dayton	**1DHH2**
80XL037	8 in	Dayton	**1DHH3**
90XL037	9 in	Dayton	**1DHH4**
100XL037	10 in	Dayton	**1DHH5**
110XL037	11 in	Dayton	**1DHH6**
120XL037	12 in	Dayton	**1DHH7**
130XL037	13 in	Dayton	**1DHH8**
140XL037	14 in	Dayton	**1DHH9**
150XL037	15 in	Dayton	**1DHJ1**
160XL037	16 in	Dayton	**1DHJ2**
170XL037	17 in	Dayton	**1DHJ3**
180XL037	18 in	Dayton	**1DHJ4**
190XL037	19 in	Dayton	**1DHJ5**
200XL037	20 in	Dayton	**1DHJ6**
210XL037	21 in	Dayton	**1DHJ7**
220XL037	22 in	Dayton	**1DHJ8**
230XL037	23 in	Dayton	**1DHJ9**
240XL037	24 in	Dayton	**1DHK1**
250XL037	25 in	Dayton	**1DHK2**
260XL037	26 in	Dayton	**1DHK3**
L Series, ⅜ in Pitch, ½ in Wide, Single Sided			
124L050	12.375 in	Dayton	**1DHK4**
150L050	15 in	Dayton	**1DHK5**
187L050	18.75 in	Dayton	**1DHK6**
210L050	21 in	Dayton	**1DHK7**
225L050	22.5 in	Dayton	**1DHK8**
240L050	24 in	Dayton	**1DHK9**
255L050	25.5 in	Dayton	**1DHL1**
270L050	27 in	Dayton	**1DHL2**
285L050	28.5 in	Dayton	**1DHL3**
300L050	30 in	Dayton	**1DHL4**
322L050	32.25 in	Dayton	**1DHL5**
345L050	34.5 in	Dayton	**1DHL6**
367L050	36.75 in	Dayton	**1DHL7**
390L050	39 in	Dayton	**1DHL8**
420L050	42 in	Dayton	**1DHL9**
450L050	45 in	Dayton	**1DHN1**
480L050	48 in	Dayton	**1DHN2**
510L050	51 in	Dayton	**1DHN3**
540L050	54 in	Dayton	**1DHN4**
600L050	60 in	Dayton	**1DHN5**
L Series, ⅜ in Pitch, ¾ in Wide, Single Sided			
150L075	15 in	Bando	**56KR67**
187L075	18.7 in	Bando	**56KR01**
210L075	21 in	Bando	**56KP96**
225L075	22.5 in	Bando	**56KP92**
240L075	24 in	Bando	**56KP79**
255L075	25.5 in	Bando	**56KP66**
270L075	27 in	Bando	**56KP44**
285L075	28.5 in	Bando	**56KP23**
322L075	32.2 in	Bando	**56KN88**
345L075	34.5 in	Bando	**56KN84**
420L075	42 in	Bando	**56KN72**
L Series, ⅜ in Pitch, 1 in Wide, Single Sided			
124L100	12.375 in	Dayton	**1DHN6**
150L100	15 in	Dayton	**1DHN7**
187L100	18.75 in	Dayton	**1DHN8**
210L100	21 in	Dayton	**1DHN9**
225L100	22.5 in	Dayton	**1DHP1**
240L100	24 in	Dayton	**1DHP2**
255L100	25.5 in	Dayton	**1DHP3**
270L100	27 in	Dayton	**1DHP4**
285L100	28.5 in	Dayton	**1DHP5**
300L100	30 in	Dayton	**1DHP6**
322L100	32.25 in	Dayton	**1DHP7**
345L100	34.5 in	Dayton	**1DHP8**
367L100	36.75 in	Dayton	**1DHP9**
390L100	39 in	Dayton	**1DHR1**
420L100	42 in	Dayton	**1DHR2**
450L100	45 in	Dayton	**1DHR3**
480L100	48 in	Dayton	**1DHR4**
510L100	51 in	Dayton	**1DHR5**
540L100	54 in	Dayton	**1DHR6**
600L100	60 in	Dayton	**1DHR7**
L Series, ⅜ in Pitch, ½ in Wide, Double Sided			
TP187L050	18.75 in	Bando	**56KL47**
TP480L050	48 in	Bando	**56KK98**
L Series, ⅜ in Pitch, ¾ in Wide, Double Sided			
TP240L075	24 in	Bando	**56KK61**
TP480L075	48 in	Bando	**56KK44**
L Series, ⅜ in Pitch, 1 in Wide, Double Sided			
TP345L100	34.5 in	Bando	**56KK31**
TP420L100	42 in	Bando	**56KK26**
TP480L100	48 in	Bando	**56KK23**
TP510L100	51 in	Bando	**56KK21**
TP540L100	54 in	Bando	**56KK20**
H Series, ½ in Pitch, 1 in Wide, Single Sided			
240H100	24 in	Dayton	**1DHR8**
270H100	27 in	Dayton	**1DHR9**
300H100	30 in	Dayton	**1DHT1**
330H100	33 in	Dayton	**1DHT2**
360H100	36 in	Dayton	**1DHT3**
370H100	37 in	Bando	**56KM97**
390H100	39 in	Dayton	**1DHT4**
420H100	42 in	Dayton	**1DHT5**
450H100	45 in	Dayton	**1DHT6**
480H100	48 in	Dayton	**1DHT7**
510H100	51 in	Dayton	**1DHT8**
540H100	54 in	Dayton	**1DHT9**
570H100	57 in	Dayton	**1DHU1**
600H100	60 in	Dayton	**1DHU2**
630H100	63 in	Dayton	**1DHU3**
660H100	66 in	Dayton	**1DHU4**
700H100	70 in	Dayton	**1DHU5**
750H100	75 in	Bando	**56KM30**

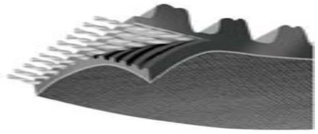
Industry No.	Pitch Length	Brand	Item No.
H Series, ½ in Pitch, 1 in Wide, Single Sided (Cont.)			
800H100	80 in	Bando	**56KM06**
900H100	90 in	Bando	**56KL01**
1700H100	170 in	Bando	**56KK40**
H Series, ½ in Pitch, 1 ½ in Wide, Single Sided			
240H150	24 in	Bando	**56KN55**
270H150	27 in	Bando	**56KN19**
300H150	30 in	Bando	**56KN08**
360H150	36 in	Bando	**56KM09**
390H150	39 in	Bando	**56KL98**
420H150	42 in	Bando	**56KL87**
450H150	45 in	Bando	**56KL77**
480H150	48 in	Bando	**56KL72**
510H150	51 in	Bando	**56KL67**
540H150	54 in	Bando	**56KL62**
570H150	57 in	Bando	**56KL63**
1700H150	170 in	Bando	**56KK16**
H Series, ½ in Pitch, 2 in Wide, Single Sided			
420H200	42 in	Bando	**56KL27**
450H200	45 in	Bando	**56KL16**
480H200	48 in	Bando	**56KL14**
540H200	54 in	Bando	**56KK97**
570H200	57 in	Bando	**56KK99**
700H200	70 in	Bando	**56KK73**
750H200	75 in	Bando	**56KK74**
800H200	80 in	Bando	**56KK63**
900H200	90 in	Bando	**56KK24**
1000H200	100 in	Bando	**56KK14**
1100H200	110 in	Bando	**56KK13**
1250H200	125 in	Bando	**56KK11**
HT Series, 5 mm Pitch, 15 mm Wide, Single Sided			
400-5M-15	400 mm	Bando	**56KP19**
425-5M-15	425 mm	Bando	**56KP15**
450-5M-15	450 mm	Bando	**56KP09**
500-5M-15	500 mm	Bando	**56KN97**
535-5M-15	535 mm	Bando	**56KN89**
565-5M-15	565 mm	Bando	**56KN85**
HT Series, 5 mm Pitch, 25 mm Wide, Single Sided			
565-5M-25	565 mm	Bando	**56KJ64**
HT Series, 8 mm Pitch, 20 mm Wide, Single Sided			
4808M20	480 mm	Dayton	**1DHU6**
5608M20	560 mm	Dayton	**1DHV1**
6008M20	600 mm	Dayton	**1DHV5**
6408M20	640 mm	Dayton	**1DHV9**
7208M20	720 mm	Dayton	**1DHW4**
8008M20	800 mm	Dayton	**1DHW8**
8808M20	880 mm	Dayton	**1LVR7**
9608M20	960 mm	Dayton	**1LVT2**
10408M20	1,040 mm	Dayton	**1LVT6**
11208M20	1,120 mm	Dayton	**1LVU1**
12008M20	1,200 mm	Dayton	**1LVU5**
12808M20	1,280 mm	Dayton	**1LVU9**
14408M20	1,440 mm	Dayton	**1LVX4**
16008M20	1,600 mm	Dayton	**1LVX8**
17608M20	1,760 mm	Dayton	**1LVZ3**
18008M20	1,800 mm	Dayton	**1LVZ7**
20008M20	2,000 mm	Dayton	**1LWA2**
HT Series, 8 mm Pitch, 30 mm Wide, Single Sided			
4808M30	480 mm	Dayton	**1DHU7**
5608M30	560 mm	Dayton	**1DHV2**
6008M30	600 mm	Dayton	**1DHV6**
6408M30	640 mm	Dayton	**1DHW1**
7208M30	720 mm	Dayton	**1DHW5**
8008M30	800 mm	Dayton	**1DHW9**
8808M30	880 mm	Dayton	**1LVR8**
9608M30	960 mm	Dayton	**1LVT3**
10408M30	1,040 mm	Dayton	**1LVT7**
11208M30	1,120 mm	Dayton	**1LVU2**
12008M30	1,200 mm	Dayton	**1LVU6**
12808M30	1,280 mm	Dayton	**1LVX1**
14408M30	1,440 mm	Dayton	**1LVX5**
16008M30	1,600 mm	Dayton	**1LVX9**
17608M30	1,760 mm	Dayton	**1LVZ4**
18008M30	1,800 mm	Dayton	**1LVZ8**
20008M30	2,000 mm	Dayton	**1LWA3**
HT Series, 8 mm Pitch, 50 mm Wide, Single Sided			
920-8M-50	920 mm	Bando	**56KL03**
HT Series, 14 mm Pitch, 40 mm Wide, Single Sided			
119014M40	1,190 mm	Dayton	**1LWB5**
140014M40	1,400 mm	Dayton	**1LWB9**
161014M40	1,610 mm	Dayton	**1LWC4**
177814M40	1,778 mm	Dayton	**1LWC8**
189014M40	1,890 mm	Dayton	**1LWD3**
210014M40	2,100 mm	Dayton	**1LWD7**
231014M40	2,310 mm	Dayton	**1LWE2**
245014M40	2,450 mm	Dayton	**1LWE6**
259014M40	2,590 mm	Dayton	**1LWF1**
280014M40	2,800 mm	Dayton	**1LWF5**
315014M40	3,150 mm	Dayton	**1LWF9**
350014M40	3,500 mm	Dayton	**1LWG4**
385014M40	3,850 mm	Dayton	**1LWG8**
HT Series, 14 mm Pitch, 55 mm Wide, Single Sided			
119014M55	1,190 mm	Dayton	**1LWB6**
140014M55	1,400 mm	Dayton	**1LWC1**
1400-14M-55	1,400 mm	Bando	**56KJ49**
161014M55	1,610 mm	Dayton	**1LWC5**
210014M55	2,100 mm	Dayton	**1LWD8**
231014M55	2,310 mm	Dayton	**1LWE3**
245014M55	2,450 mm	Dayton	**1LWE7**
259014M55	2,590 mm	Dayton	**1LWF2**
280014M55	2,800 mm	Dayton	**1LWF6**
315014M55	3,150 mm	Dayton	**1LWG1**
385014M55	3,850 mm	Dayton	**1LWG9**
HT Series, 14 mm Pitch, 85 mm Wide, Single Sided			
245014M85	2,450 mm	Dayton	**1LWE8**
385014M85	3,850 mm	Dayton	**1LWH1**

Continental ContiTech

Timing Belts

- For timing belt pulleys, see page 114

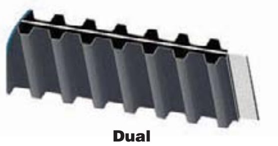
Versatile positive drive belts combine the advantages of V-belts with chain and gear for power transmission belting that is efficient and precisely accurate. They are engineered to be adaptable to almost any type of drive, from printers to heavy industrial milling machines and grinders.



Falcon Pd

Hawk Pd

Conti Synchrochain Carbon



Dual Hi-Performance Pd

FALCON PD

Designed to handle applications with increased horsepower and low torque, as well as those requiring backside idlers. High-grade rubber blend compound is formulated to resist tooth deformity, increase tooth rigidity, and withstand much higher temperatures than polyurethane belts.

CONTI SYNCHROCHAIN CARBON

Developed for extreme applications that require reliable transmission of large power outputs, high torques, and high speeds, or with high dynamic stressing. Belts allow reverse flexing in multipulley drives. Compatible with other heavy-duty profiles.

HAWK PD

Universal-profile belts made with advanced compounded materials are designed to fit the majority of high-capacity synchronous drive requirements.

Note: 85mm Hawk Pd timing belts are available on Grainger.com.

DUAL HI-PERFORMANCE PD

Double-sided belts provide compactness and greater horsepower capacity in precision drives with synchronized reverse-rotation drive shafts. Specialty rubber compound has excellent oil, heat, ozone, and abrasion resistance, for extended belt life.

SILENTSYNC SERIES

Self-tracking timing belts feature an aramid cord so they don't need retensioning and have helical teeth for quiet operation and less vibration in low noise and low vibration drive systems. These industrial timing belts are suitable for use in horizontal drives and the nitrile rubber construction resists coolants, oil, and ozone.

Note: Additional size Continental ContiTech timing belts are available on Grainger.com.

Abbreviated Industry Number*	Pitch Length	No. of Teeth	12 mm Width Item No.	21 mm Width Item No.	36 mm Width Item No.
Falcon Pd Series, 8 mm Pitch, Single Sided					
8GTR-640	640 mm	80	**2UVY8**	**2UVY9**	**2UVZ1**
8GTR-720	720 mm	90	**2UVZ2**	**2UVZ3**	**2UVZ4**
8GTR-800	800 mm	100	**2UVZ5**	**2UVZ6**	**2UVZ7**
8GTR-896	896 mm	112	**2UVZ8**	**2UVZ9**	**2UWA1**
8GTR-1000	1,000 mm	125	**2UVP6**	**2UVP7**	**2UVP8**
8GTR-1120	1,120 mm	140	**2UVP9**	**2UVR1**	**2UVR2**
8GTR-1200	1,200 mm	150	**2UVR3**	**2UVR4**	**2UVR5**
8GTR-1280	1,280 mm	160	**2UVR6**	**2UVR7**	**2UVR8**
8GTR-1440	1,440 mm	180	**2UVR9**	**2UVT1**	**2UVT2**
8GTR-1600	1,600 mm	200	**2UVT3**	**2UVT4**	**2UVT5**
8GTR-1792	1,792 mm	224	**2UVT6**	**2UVT7**	**2UVT8**
8GTR-2000	2,000 mm	250	**2UVT9**	**2UVU1**	**2UVU2**
8GTR-2240	2,240 mm	280	**2UVU3**	**2UVU4**	**2UVU5**
8GTR-2400	2,400 mm	300	**2UVU6**	**2UVU7**	**2UVU8**
8GTR-2520	2,520 mm	315	**2UVU9**	**2UVX1**	**2UVX2**
8GTR-2840	2,840 mm	355	**2UVX3**	**2UVX4**	**2UVX5**
8GTR-3200	3,200 mm	400	**2UVX6**	**2UVX7**	**2UVX8**
8GTR-3600	3,600 mm	450	**2UVX9**	**2UVY1**	**2UVY2**
8GTR-4000	4,000 mm	500	**2UVY3**	**2UVY4**	**2UVY5**
8GTR-4480	4,480 mm	560	**2UVY6**	**2UVY7**	—

Abbreviated Industry Number*	Pitch Length	No. of Teeth	12 mm Width Item No.	21 mm Width Item No.	36 mm Width Item No.
Conti Synchrochain Carbon Series, 8 mm Pitch, Single Sided					
CTD8M-640	640 mm	80	**39GC56**	**39GD55**	**39GC15**
CTD8M-720	720 mm	90	**39GC66**	**39GC64**	**39GC45**
CTD8M-800	800 mm	100	**39GD03**	**39GC80**	**39GC53**
CTD8M-896	896 mm	112	**39GC40**	**39GD46**	**39GC31**
CTD8M-1000	1,000 mm	125	**39GC41**	**39GC29**	**39GD23**
CTD8M-1120	1,120 mm	140	**39GD39**	**39GD41**	**39GD26**
CTD8M-1200	1,200 mm	150	**39GD91**	**39GC81**	**39GD12**
CTD8M-1280	1,280 mm	160	**39GD06**	**39GC96**	**39GD57**
CTD8M-1440	1,440 mm	180	**39GD80**	**39GC57**	**39GD44**
CTD8M-1600	1,600 mm	200	**39GC86**	**39GD77**	**39GD69**
CTD8M-1792	1,792 mm	224	**39GD27**	**39GC59**	**39GD97**
CTD8M-2000	2,000 mm	250	**39GC89**	**39GC62**	**39GD61**
CTD8M-2240	2,240 mm	280	**39GD92**	**39GC92**	**39GD90**
CTD8M-2400	2,400 mm	300	**39GD30**	**39GC39**	**39GC99**
CTD8M-2520	2,520 mm	315	**39GD67**	**39GC42**	**39GD36**
CTD8M-2840	2,840 mm	355	**39GC28**	**39GD49**	**39GC60**
CTD8M-3200	3,200 mm	400	**39GD79**	**39GC13**	**39GC20**
CTD8M-3600	3,600 mm	450	**39GC73**	**39GD56**	**39GD21**
CTD8M-4000	4,000 mm	500	**39GC69**	**39GD73**	**39GD66**

Abbreviated Industry Number*	Pitch Length	No. of Teeth	20 mm Width Item No.	30 mm Width Item No.	50 mm Width Item No.
Hawk Pd Series, 8 mm Pitch, Single Sided					
6008M	600 mm	75	**2UVL4**	**2UVL5**	**2UVL6**
6408M	640 mm	80	**2UVL8**	**2UVL9**	**2UVN1**
7208M	720 mm	90	**2UVN3**	**2UVN4**	**2UVN5**
8008M	800 mm	100	**2UVN7**	**2UVN8**	**2UVN9**
8808M	880 mm	110	**2UVP2**	**2UVP3**	**2UVP4**
9608M	960 mm	120	**2UWA2**	**2UWA3**	**2UWA4**
10408M	1,040 mm	130	**2UVF3**	**2UVF4**	**2UVF5**
11208M	1,120 mm	140	**2UVF7**	**2UVF8**	**2UVF9**
12008M	1,200 mm	150	**2UVG2**	**2UVG3**	**2UVG4**
12808M	1,280 mm	160	**2UVG6**	**2UVG7**	**2UVG8**
14408M	1,440 mm	180	**2UVH1**	**2ZRU5**	**2UVH2**
16008M	1,600 mm	200	**2UVH4**	**2UVH5**	**2UVH6**
17608M	1,760 mm	220	**2UVH8**	**2UVH9**	**2UVJ1**
18008M	1,800 mm	225	**2UVJ3**	**2UVJ4**	**2UVJ5**
20008M	2,000 mm	250	**2UVJ7**	**2UVJ8**	**2UVJ9**
24008M	2,400 mm	300	**2UVK2**	**2UVK3**	**2UVK4**
2600 8M	2,600 mm	325	**2UVK6**	**2UVK7**	**2UVK8**
2800 8M	2,800 mm	350	**2UVL1**	**2UVL2**	**2UWP7**

Abbreviated Industry Number*	Pitch Length	No. of Teeth	20 mm Width Item No.	30 mm Width Item No.	50 mm Width Item No.
Dual Hi-Performance Pd Series, 8 mm Pitch, Double Sided					
D720 8M	720 mm	90	**2UWF1**	—	—
D800 8M	800 mm	100	—	**2UWF2**	—
D960 8M	960 mm	120	—	**2UWF3**	—
D1040 8M	1,040 mm	130	**2UWA6**	—	—
D1120 8M	1,120 mm	140	—	**2UWA7**	—
D1200 8M	1,200 mm	150	—	**2UWA8**	—
D1280 8M	1,280 mm	160	—	**2UWA9**	—
D1440 8M	1,440 mm	180	**2UWC1**	**2UWC2**	**2UWC3**
D1600 8M	1,600 mm	200	**2UWC4**	**2UWC5**	**2UWC6**
D1760 8M	1,760 mm	220	—	**2UWC8**	**2UWC9**
D1800 8M	1,800 mm	225	**2UWD2**	**2UWD3**	—
D2000 8M	2,000 mm	250	—	**2UWD5**	—
D2400 8M	2,400 mm	300	**2UWD6**	**2UWD7**	**2UWD8**
D2600 8M	2,600 mm	325	—	**2UWD9**	**2UWE1**
D2800 8M	2,800 mm	350	**2UWE2**	**2UWE3**	**2UWE4**
D3048 8M	3,048 mm	381	—	—	**2UWE5**
D3280 8M	3,280 mm	410	—	—	**2UWE7**
D3600 8M	3,600 mm	450	—	**2UWE8**	**2UWE9**

Industry Number	Width	Pitch Length	No. of Teeth	Item No.
SilentSync Series, 8 mm Pitch, Single Sided				
Y-720	16 mm	720 mm	90	**45PL36**
Y-800	16 mm	800 mm	100	**45PL37**
Y-896	16 mm	896 mm	112	**45PL38**
Y-1120	16 mm	1,120 mm	140	**45PL40**
Y-1200	16 mm	1,200 mm	150	**45PL41**
W-800	32 mm	800 mm	100	**45PL51**
W-896	32 mm	896 mm	112	**45PL52**
W-1000	32 mm	1,000 mm	125	**45PL53**
W-1120	32 mm	1,120 mm	140	**45PL54**
W-1200	32 mm	1,200 mm	150	**45PL55**
W-1280	32 mm	1,280 mm	160	**45PL56**
W-1440	32 mm	1,440 mm	180	**45PL57**
W-1600	32 mm	1,600 mm	200	**45PL58**
W-1792	32 mm	1,792 mm	224	**45PL59**
W-2000	32 mm	2,000 mm	250	**45PL60**
W-2400	32 mm	2,400 mm	300	**45PL62**
SilentSync Series, 14 mm Pitch, Single Sided				
B-1568	35 mm	1,568 mm	112	**45PL68**
B-1750	35 mm	1,750 mm	125	**45PL69**
B-1960	35 mm	1,960 mm	140	**45PL70**
B-2100	35 mm	2,100 mm	150	**45PL71**
B-2240	35 mm	2,240 mm	160	**45PL72**
B-2380	35 mm	2,380 mm	170	**45PL73**
B-2800	35 mm	2,800 mm	200	**45PL76**
G-1400	52.5 mm	1,400 mm	100	**45PL81**
G-1750	52.5 mm	1,750 mm	125	**45PL83**
G-2660	52.5 mm	2,660 mm	190	**45PL89**
G-3500	52.5 mm	3,500 mm	250	**45PM26**
O-1400	70 mm	1,400 mm	100	**45PL94**
O-2380	70 mm	2,380 mm	170	**45PM01**
O-2660	70 mm	2,660 mm	190	**45PM03**
O-2800	70 mm	2,800 mm	200	**45PM04**
R-2100	105 mm	2,100 mm	150	**45PM10**
R-2240	105 mm	2,240 mm	160	**45PM11**

** To complete Mfr. Model No., add millimeter width.*

Hollow Core
15V470

Solid Core
15V482

Solid Core
Metal-Detectable
30D659

Connector
15V476

Fenner Drives® EAGLE POLYURETHANE BELTING & O-RINGS

Eagle Round Belting

- Temp. range: -22° to 150°F
- Sold in 100-ft. lengths

Polyurethane belts can be cut to required length; weld endless or use connectors for hollow-core belts to extend length. Smooth belts are FDA compliant. Solid-core metal-detectable belting is used in food processing and pharmaceutical applications.

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Hollow Core			
Clear, Smooth, Shore A 85			
3⁄16 in	2 in	4934009	**15V470**
¼ in	2 ½ in	4934012	**15V471**
5⁄16 in	3 in	4934015	**15V472**
⅜ in	3 ½ in	4934018	**15V473**
½ in	4 ½ in	4934024	**15V474**
⅝ in	5 ½ in	4934030	**15V475**
Yellow, Smooth, Shore A 85			
3⁄16 in	2 in	4934021	**15V465**
¼ in	2 ½ in	4934022	**15V466**
5⁄16 in	3 in	4934023	**15V467**
⅜ in	3 ½ in	4934025	**15V468**
½ in	4 ½ in	4934026	**15V469**
Solid Core			
Orange, Smooth, Shore A 85			
3⁄32 in	¾ in	1032003	**15V482**
⅛ in	15⁄16 in	1032004	**15V483**
3⁄16 in	1 ½ in	1032006	**15V484**
¼ in	2 in	1032008	**15V485**
5⁄16 in	2 ½ in	1032010	**15V486**
⅜ in	3 in	1032012	**15V487**
½ in	4 in	1032016	**15V488**
9⁄16 in	4 ½ in	1032018	**15V489**
⅝ in	5 in	1032020	**15V490**
¾ in	6 in	1032024	**15V491**
Clear, Smooth, Shore A 95			
3⁄32 in	1 in	4907003	**15V492**
⅛ in	1 ¼ in	4907006	**15V493**
3⁄16 in	1 ⅞ in	4907009	**15V494**
¼ in	2 ½ in	4907012	**15V495**
5⁄16 in	3 ⅛ in	4907015	**15V496**
⅜ in	3 ¾ in	4907018	**15V497**
½ in	5 in	4907024	**15V498**
9⁄16 in	5 ⅝ in	4907027	**15V499**
⅝ in	6 ¼ in	4907030	**15V501**
¾ in	7 ½ in	4907033	**15V502**

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Green, Rough, Shore A 89			
2 mm	¾ in	4905302	**15V506**
3 mm	1 in	4905303	**15V507**
4 mm	1 7⁄16 in	4905304	**15V508**
5 mm	1 ¾ in	4905305	**15V509**
6 mm	2 ⅛ in	4905306	**15V510**
7 mm	2 ½ in	4905307	**15V511**
8 mm	2 53⁄64 in	4905308	**15V512**
10 mm	3 ½ in	4905310	**15V513**
12 mm	4 ¼ in	4905312	**15V514**
15 mm	5 ¼ in	4905315	**15V515**
Solid Core Reinforced			
Orange, Smooth, Shore A 85			
¼ in	2 ½ in	4940058	**15V503**
5⁄16 in	3 ⅛ in	4940059	**15V504**
⅜ in	3 ¾ in	4940060	**15V505**
Solid Core Metal-Detectable			
Blue, Smooth, Shore A 80			
3⁄16 in	1 5⁄16 in	4941100	**30D659**
¼ in	1 ¾ in	4941101	**30D660**
5⁄16 in	2 3⁄16 in	4941102	**30D661**
⅜ in	2 ⅝ in	4941103	**30D662**

Dia.	Pkg. Qty.	Mfr. Model	Item No.
Aluminum Round Belt Connectors, For Use with Hollow Core Belts			
3⁄16 in	25	4935009	**15V476**
¼ in	25	L04CON6S	**15V477**
5⁄16 in	25	L04CON8S	**15V478**
⅜ in	20	L04CON10S	**15V479**
½ in	20	L04CON13S	**15V480**
⅝ in	15	4935030	**15V481**

Fenner Drives®

EAGLE POLYURETHANE BELTING & O-RINGS

Eagle Twisted O-Rings

- Clear, smooth texture, Shore A 85 hardness
- Sold in packages of 50

Quick-connect polyurethane twisted O-rings are a great fast-fit solution for live roller conveyors. No need to dismantle drive components, providing an easy way to avoid system downtime. Metal hooks are included.

Dia.	Overall Length	Mfr. Model	Item No.
3⁄16 in	6 in	5050003	**19RT86**
	10 ½ in	5050015	**19RT98**
	10 ⅝ in	5050004	**19RT94**
	11 in	5050012	**19RT95**
	11 ½ in	5050911	**19RT97**
	12 in	5050016	**19RT99**
	12 ½ in	5050005	**19RT87**
	12 ¾ in	5050002	**19RT92**
	12 ⅞ in	5050006	**19RT88**
	13 in	5050007	**19RT89**
	13 ¼ in	5050017	**19RU01**
	13 ½ in	5050009	**19RT90**
	13 ¾ in	5050014	**19RT96**
	14 in	5050008	**19RT93**
	14 ½ in	5050010	**19RT91**

Gates®

1NKK4

Round Endless Belts

- Temp. Range: -30° to 140°F

Allow minimal stretch and have no splice, making them extra durable and efficient. Made from rubber with nylon reinforcement cords and designed for 1-quarter turn or twisted drives where more than an O-ring is required. Also suitable for serpentine drives, power turn and line shaft conveyors, and commercial sewing machines.

Dia.	Inside Length	Min. Pulley Dia.	Mfr. Model	Item No.
Reinforced Gum Rubber, Black, Shore A 80				
⅜ in	36 in	3 in	88201234	**1NKL7**
	98 in		88201486	**1NKK4**
7⁄16 in	34 in		88201835	**1NKL4**
	77 ¼ in		88202008	**1NKL9**
9⁄16 in	166 in	5 13⁄32 in	88203491	**1NKN4**
	176 in		88203492	**1NKN5**
	190 in		88203493	**1NKN2**
	200 in		88203469	**1NKL8**
	210 in		88203486	**1NKL3**
	233 in		88203470	**1NKK7**
	250 in		88203494	**1NKK5**
	270 in		88203471	**1NKK6**
	308 in		88203472	**1NKK9**
	331 in		88203473	**1NKL2**
	345 in		88203495	**1NKL5**
	386 in		88203474	**1NKL1**
	416 in		88203475	**1NKL6**
	447 in		88203484	**1NKN1**
	465 in		88203476	**1NKN3**
	564 in		88203477	**1NKK8**
	660 in		88203478	**1NKN6**

Fenner Drives® EAGLE POLYURETHANE BELTING & O-RINGS

Eagle Cordless Belt Welding Kit

Freestyle cordless welder is powered by 2 rechargeable batteries to complete up to 30 welds per charge. Features built-in profile clamping dies for both round and V belt profiles. Kit includes cordless welder, flat plate adapters, battery charger, 4 NiMH D batteries, cutting shears, flash cutters, blade release tape, and tool bag.

Description	Mfr. Model	Item No.
Used for Round and V-Belts	5700539	**5HYN7**

Fenner Drives® EAGLE POLYURETHANE BELTING & O-RINGS

Eagle Belt Heating Tool

This belt heating tool can join all Eagle non-reinforced belting and some reinforced polyurethane belting. Device allows you to apply heat to the 2 ends of a length of belting, and then join the belt ends for a completed belt. Tool comes with a holder and 2" blade. 120V.

Description	Item No.
Heat Iron Complete, Tip And Paddle, For Use With Butt Welding Kit	**33Z789**

Congress DRIVES

Variable-Pitch Adjustable Die-Cast V-Belt Pulleys

- Zamak/zinc alloy
- Solid construction

Precision-machined threaded mating sections provide as much as 30% downward adjustment in pitch diameter for setting precise speed. Zamak/zinc alloy resists wear and corrosion. Include socket-head setscrews.

54XM75

Outside Dia.	4L or A Belt Pitch Dia.	5L or B Belt Pitch Dia.	Mfr. Model*	½ in Item No.	⅝ in Item No.
3.25 in	2.10 in to 3.10 in	2.4 in to 3.2 in	VP325	**54XM75**	**54XM74**
3.5 in	2.40 in to 3.40 in	2.9 in to 3.5 in	VP350	**54XM79**	**54XM78**
3.75 in	2.60 in to 3.60 in	3.1 in to 3.7 in	VP375	**54XM77**	—
4 in	2.90 in to 3.90 in	3.2 in to 4.0 in	VP400	**54XM94**	**54XM95**
4.5 in	3.30 in to 4.30 in	3.7 in to 4.5 in	VP450	**54XM96**	**54XM97**

** To complete Mfr. Model, add X050 for ½" bore dia. and X062KW for ⅝" bore dia.*

6FFH8

6FFH5

ESSICK AIR

Air Variable Pitch Fixed Bore Cast-Iron V-Belt Pulleys

- Solid construction

Adjust by loosening the included setscrews in hubs, turning threaded flange to the desired setting, and then retightening setscrews. Standard keyway, see chart on page 119.

No. of Grooves	Outside Dia.	Bore Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Item No.
1	3.5 in	⅝ in	2.70 in to 3.50 in	2.9 in to 3.9 in	3 in to 4 in	**6FFH7**
1	4 in	⅝ in	3.10 in to 3.90 in	3.3 in to 4.3 in	3.4 in to 4.4 in	**6FFH8**
2	3.25 in	⅞ in	2.20 in to 3.00 in	2.8 in to 3.4 in	—	**6FFH5**
2	3.5 in	1 ⅛ in	2.70 in to 3.50 in	2.9 in to 3.9 in	3 in to 4 in	**6FFH6**

TB Wood's Incorporated

Variable-Pitch Fixed-Bore Cast-Iron V-Belt Pulleys

- Solid construction

Adjust by loosening the included setscrews in hubs, turning threaded flange to desired setting, and then retightening setscrews. Standard keyway, see chart on page 119. ½" bore dia. has no keyway.

5UHP5

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	5V Belt Pitch Dia.	Mfr. Model*	BORE DIA. ½ in Item No.	⅝ in Item No.	¾ in Item No.	⅞ in Item No.	1 in Item No.	1 ⅛ in Item No.	1 ⅜ in Item No.	1 ⅝ in Item No.
Single Groove													
2.58 in	1.79 in to 2.44 in	—	—	—	1VP25	**5UHP5**	**5UHP6**	—	—	—	—	—	—
2.87 in	1.87 in to 2.69 in	—	—	—	1VP30	**5UHP7**	**5UHP8**	—	—	—	—	—	—
3.15 in	2.08 in to 2.90 in	2.32 in to 3.04 in	2.78 in to 3.19 in	—	1VP34	**5UHP9**	**5UHR1**	**5UHR0**	**5UHR2**	—	—	—	—
3.75 in	2.26 in to 3.18 in	2.39 in to 3.62 in	2.95 in to 3.77 in	—	1VP40	**5UHR3**	**5UHR5**	**5UHR4**	**5UHR6**	—	—	—	—
4.15 in	2.66 in to 3.58 in	2.79 in to 4.02 in	3.35 in to 4.17 in	—	1VP44	**5UHR9**	**5UHT1**	**5UHT0**	**5UHT2**	**5UHR7**	**5UHR8**	—	—
4.75 in	3.26 in to 4.18 in	3.39 in to 4.62 in	3.95 in to 4.77 in	—	1VP50	**5UHT5**	**5UHT7**	**5UHT6**	**5UHT8**	**5UHT3**	**5UHT4**	—	—
5.35 in	3.86 in to 4.78 in	3.49 in to 5.22 in	4.55 in to 5.37 in	—	1VP56	**5UHU1**	**5UHU3**	**5UHU2**	**5UHU4**	**5UHT9**	**5UHU0**	—	—
5.95 in	4.46 in to 5.38 in	4.59 in to 5.82 in	5.15 in to 5.97 in	5.07 in to 5.87 in	1VP62	—	**5UHV1**	—	**5UHV2**	**5UHU8**	**5UHU9**	**5UHV0**	—
6 in	—	4.12 in to 5.85 in	4.68 in to 5.91 in	—	1VP60	—	**52YP80**	—	**5UHU7**	—	**5UHU5**	**5UHU6**	—
6.5 in	—	4.62 in to 5.85 in	5.18 in to 6.41 in	5.10 in to 6.33 in	1VP65	—	—	—	**5UHV5**	—	**5UHV3**	**5UHV4**	—
6.55 in	5.06 in to 5.98 in	5.19 in to 6.42 in	5.75 in to 6.57 in	5.67 in to 6.49 in	1VP68	—	—	—	**5UHV9**	**5UHV6**	**5UHV7**	**5UHV8**	—
7.1 in	—	5.22 in to 6.45 in	5.78 in to 7.01 in	5.70 in to 6.93 in	1VP71	—	—	—	**5UHW2**	—	**5UHW0**	**5UHW1**	—
7.5 in	—	5.62 in to 6.85 in	6.18 in to 7.41 in	6.10 in to 7.33 in	1VP75	—	—	—	**5UHW5**	—	**5UHW3**	**5UHW4**	—
2 Groove													
3.35 in	2.27 in to 2.78 in	2.50 in to 3.22 in	2.76 in to 3.37 in	—	2VP36	—	**5UHW7**	**5UHW6**	**5UHW8**	—	—	—	—
3.35 in	2.58 in to 2.78 in	3.02 in to 3.22 in	3.17 in to 3.37 in	—	2VP36	—	—	—	—	—	**52YP81**	—	—
3.95 in	2.46 in to 3.38 in	2.70 in to 3.82 in	3.15 in to 3.97 in	—	2VP42	—	**5UHX1**	—	**5UHX2**	**5UHW9**	**5UHX0**	—	—
4.75 in	3.26 in to 4.18 in	3.37 in to 4.62 in	3.95 in to 4.77 in	—	2VP50	—	**5UHX5**	—	**5UHX6**	**5UHX3**	**5UHX4**	—	—
5.35 in	3.86 in to 4.78 in	3.99 in to 5.22 in	4.55 in to 5.37 in	—	2VP56	—	—	—	**5UHX9**	**5UHX7**	**5UHX8**	—	—
5.95 in	4.46 in	4.59 in to 5.82 in	5.15 in to 5.97 in	5.07 in to 5.89 in	2VP62	—	—	—	—	—	**5UHY0**	**5UHY1**	—
6.5 in	—	4.62 in to 5.85 in	5.18 in to 6.41 in	5.10 in to 6.33 in	2VP65	—	—	—	—	—	**5UHY2**	**5UHY3**	**5UHY4**
6.55 in	5.06 in	5.19 in to 6.42 in	5.75 in to 6.57 in	5.67 in to 6.48 in	2VP68	—	—	—	—	—	**6PFH6**	**5UHY5**	—
7.1 in	—	5.22 in to 6.45 in	5.78 in to 7.01 in	5.70 in to 6.93 in	2VP71	—	—	—	—	—	**5UHY6**	**5UHY7**	**5UHY8**
7.5 in	—	5.62 in to 6.85 in	6.18 in to 7.41 in	6.10 in to 7.33 in	2VP75	—	—	—	—	—	**5UHY9**	**5UHZ0**	**5UHZ1**

** To complete Mfr. Model, add Bore Dia.*

Outside Dia.	3L Belt Pitch Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	BORE DIA. ⅜ in Item No.	½ in Item No.	⅝ in Item No.	¾ in Item No.	⅞ in Item No.	1 in Item No.	1 3⁄16 in Item No.
Solid Construction										
1.5 in	1.05 in	1.35 in	CA0150	**54XN20**	**54XN21**	**54XN22**	—	—	—	—
2 in	1.55 in	1.85 in	CA0200	**54XN23**	**54XN24**	**54XN25**	**54XN26**	—	—	—
2.25 in	1.8 in	2.1 in	CA0225	—	**54XN27**	**54XN28**	—	—	—	—
2.5 in	2.05 in	2.35 in	CA0250	—	**54XM31**	**54XM32**	**54XM33**	—	—	—
2.75 in	2.3 in	2.6 in	CA0275	**54XM70**	**54XM86**	**54XM85**	—	—	—	—
3 in	2.55 in	2.85 in	CA0300	**54XM68**	**54XM34**	**54XM35**	**54XM98**	**54XM67**	**54XM69**	—
3.5 in	3.05 in	3.35 in	CA0350	**54XM65**	**54XN10**	**54XN11**	**54XN12**	**54XM64**	**54XM66**	—
4 in	3.55 in	3.85 in	CA0400	**54XM57**	**54XN13**	**54XN14**	**54XN15**	**54XM58**	**54XM63**	—
4.5 in	4.05 in	4.35 in	CA0450	—	**54XN16**	**54XN17**	**54XN18**	**54XM60**	**54XM59**	—
5 in	4.55 in	4.85 in	CA0500	—	**54XN19**	**54XM99**	**54XN01**	**54XM62**	**54XM61**	—
Spoked Construction										
6 in	5.55 in	5.85 in	CA0600	—	**54XN02**	**54XN03**	**54XN04**	**54XM87**	**54XN05**	—
7 in	6.55 in	6.85 in	CA0700	—	**54XN06**	**54XN07**	**54XN08**	**54XM88**	**54XN09**	—
8 in	7.55 in	7.85 in	CA0800	—	**54XM36**	**54XM37**	**54XM38**	**54XM89**	**54XM39**	—
9 in	8.55 in	8.85 in	CA0900	—	**54XM40**	**54XM41**	**54XM42**	**54XM90**	**54XM43**	—
10 in	9.55 in	9.85 in	CA1000	—	**54XM44**	**54XM45**	**54XM46**	**54XM73**	**54XM47**	—
11 in	10.55 in	10.85 in	CA1100	—	—	**54XM84**	**54XM83**	—	**54XM82**	—
12 in	11.55 in	11.85 in	CA1200	—	**54XM48**	**54XM49**	**54XM50**	**54XM72**	**54XM51**	—
14 in	13.55 in	13.85 in	CA1400	—	—	**54XM76**	**54XM52**	**54XM71**	**54XM53**	**54XM54**

** To complete Mfr. Model, add X037 for ⅜", add X050 for ½", add X062KW for ⅝" (except 3X893 add X062), add X075KW for ¾", add X087KW for ⅞", add X100KW for 1", and add X118KW for 1 3⁄16".*

Solid Construction
54XN20

Spoked Construction
54XN02

Congress DRIVES

Fixed-Bore Die-Cast V-Belt Pulleys

- Zamak/zinc alloy

Precision sheaves have machined grooves and bores for high concentricity. Zamak/zinc alloy resists wear and corrosion. Include hollow-head setscrews. Pulleys 6" dia. and larger are spoke construction to further reduce weight. All bores above ½" (except 54XN22) have keyways, see chart on page 119.

Find more information on Standard Keyway and Setscrew Machining on page 119.

54XM91

Congress DRIVES

3- and 4-Step Fixed-Bore Die-Cast V-Belt Pulleys

- Zamak/zinc alloy
- Reducer bushing included
- Solid construction

Bore and grooves are machined together to provide high concentricity. Use in pairs (1 inverted), in any combination, for effective speed regulation. Will fit a ⅝" or ½" dia. shaft. Designed for use with 4L or A Type V-belts. Pitch dia. is 0.15" less than outside dia.

Pulley Outside Dia.	Mfr. Model	Item No.
3 Step		
1.87 in, 2.5 in, 3.31 in	SCA300-3X062KW	**54XM91**
2 in, 3 in, 4 in	SCA400-3X062KW	**54XM55**
3 in, 4 in, 5 in	SCA500-3X062KW	**54XM81**
4 in, 5 in, 6 in	SCA600-3X062KW	**54XM92**
4 Step		
2 in, 2.62 in, 3.37 in, 4 in	SCA400-4X062KW	**54XM56**
2 in, 3 in, 4 in, 5 in	SCA500-4X062KW	**54XM80**
3 in, 4 in, 5 in, 6 in	SCA600-4X062KW	**54XM93**

Solid Construction
5RHY3
AK Series

Arm Construction
5RHX2
AK Series

Web Construction
5UHL3
BK Series

TB Wood's Incorporated

Fixed-Bore Light-Duty Cast-Iron V-Belt Pulleys

- Efficient and lightweight
- Standard keyway with setscrew
- ½" bore dia. has no keyway but has setscrew

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model*	BORE DIA. ½ in Item No.	⅝ in Item No.	¾ in Item No.	⅞ in Item No.	1 in Item No.	1 ⅛ in Item No.	1 ⅜ in Item No.
AK Series Single Groove												
1.75 in	—	1.5 in	—	Solid	AK17	**5RHY3**	**5RHY4**	—	—	—	—	—
2.05 in	1.46 in	1.8 in	—	Solid	AK20	**5RHY5**	**5RHY7**	**5RHY6**	—	—	—	—
2.25 in	1.66 in	2 in	—	Solid	AK22	**5RHY8**	**5RHZ0**	**5RHY9**	—	—	—	—
2.55 in	1.96 in	2.3 in	—	Web	AK25	**5RHZ1**	**5RHZ3**	**5RHZ2**	**5RHZ4**	—	—	—
2.85 in	2.26 in	2.6 in	—	Web	AK28	**5RHZ5**	**5RHZ7**	**5RHZ6**	**5RHZ8**	—	—	—
3.05 in	2.46 in	2.8 in	—	Web	AK30	—	**5RHZ9**	—	**5RJA0**	—	—	—
3.25 in	2.66 in	3 in	—	Web	AK32	**14A165**	**14A166**	**14A167**	**14A168**	**14A169**	—	—
3.45 in	2.86 in	3.2 in	—	Web	AK34	**5RJA1**	**5RJA3**	**5RJA2**	**5RJA4**	—	—	—
3.75 in	3.16 in	3.5 in	—	Web	AK39	**5RJA6**	**5RJA8**	**5RJA7**	**5RJA9**	**5RJA5**	—	—
3.95 in	3.36 in	3.7 in	—	Web	AK41	**5RJC1**	**5RJC3**	**5RJC2**	**5RJC4**	**5RJC0**	—	—
4.25 in	3.66 in	4 in	—	Arm	AK44	—	—	**52YP82**	**5RJC5**	—	—	—
4.45 in	3.86 in	4.2 in	—	Arm	AK46	**5RJC7**	**5RJC9**	**5RJC8**	**5RJD0**	**5RJC6**	—	—
4.75 in	4.16 in	4.5 in	—	Arm	AK49	—	—	—	**5RJD1**	—	—	—
4.95 in	4.36 in	4.7 in	—	Arm	AK51	**5RJD3**	**5RJD5**	**5RJD4**	**5RJD6**	**5RJD2**	—	—
5.25 in	4.66 in	5 in	—	Arm	AK54	—	—	—	**5RJD7**	—	—	—
5.45 in	4.86 in	5.2 in	—	Arm	AK56	**5RJD9**	**5RJE1**	**5RJE0**	**5RJE2**	**5RJD8**	—	—
5.75 in	5.16 in	5.5 in	—	Arm	AK59	—	—	—	**5RJE3**	—	—	—
5.95 in	5.36 in	5.7 in	—	Arm	AK61	—	—	—	—	**52YP83**	—	—
6.25 in	5.66 in	6 in	—	Arm	AK64	—	**5RJE6**	**5RJE5**	**5RJE7**	**5RJE4**	—	—
6.45 in	5.86 in	6.2 in	—	Arm	AK66	—	—	—	—	**52YP84**	—	—
7.25 in	6.66 in	7 in	—	Arm	AK74	—	**5RJF0**	**5RJE9**	**5RJF1**	**5RJE8**	—	—
7.75 in	7.16 in	7.5 in	—	Arm	AK79	—	—	—	—	**52YP85**	—	—
8.25 in	7.66 in	8 in	—	Arm	AK84	—	**5RJF4**	**5RJF3**	**5RJF5**	**5RJF2**	—	—
9.25 in	8.66 in	9 in	—	Arm	AK94	—	**5RJF8**	**5RJF7**	**5RJF9**	**5RJF6**	—	—
10.25 in	9.66 in	10 in	—	Arm	AK104	—	—	**5RHX3**	**5RHX4**	**5RHX2**	—	—
11.25 in	10.66 in	11 in	—	Arm	AK114	—	—	**5RHX6**	**5RHX7**	**5RHX5**	—	—
12.25 in	11.66 in	12 in	—	Arm	AK124	—	—	—	**5RHX9**	**5RHX8**	—	—
13.25 in	12.66 in	13 in	—	Arm	AK134	—	—	—	—	**5RHY0**	—	—
14.25 in	13.66 in	14 in	—	Arm	AK144	—	—	—	**5RHY2**	**5RHY1**	—	—
AK Series 2 Groove												
2.25 in	1.66 in	2 in	—	Solid	2AK22	**5UHG0**	**5UHG1**	—	—	—	—	—
2.55 in	1.96 in	2.3 in	—	Solid	2AK25	**5UHG2**	**5UHG3**	—	—	—	—	—
2.85 in	2.26 in	2.6 in	—	Solid	2AK28	—	**5UHG4**	—	—	—	—	—
3.45 in	2.86 in	3.2 in	—	Solid	2AK34	—	**5UHG5**	—	—	—	—	—
4.75 in	4.16 in	4.5 in	—	Web	2AK49	—	—	—	—	**52YP86**	—	—
7.25 in	6.66 in	7 in	—	Arm	2AK74	—	—	—	—	**52YP87**	—	—
BK Series Single Groove												
2.15 in	—	—	1.8 in	Solid	BK20	—	**5RJH1**	**5RJH0**	—	—	—	—
2.65 in	—	1.9 in	2.3 in	Solid	BK25	**5RJH2**	**5RJH4**	**5RJH3**	**5RJH5**	—	—	—
2.85 in	—	2.1 in	2.5 in	Web	BK27	—	**5RJH7**	**5RJH6**	**5RJH8**	—	—	—
2.95 in	—	2.2 in	2.6 in	Web	BK28	—	**5RJJ0**	**5RJH9**	**5RJJ1**	—	—	—
3.15 in	—	2.4 in	2.8 in	Web	BK30	**5RJJ3**	**5RJJ5**	**5RJJ4**	**5RJJ6**	—	—	—
3.35 in	—	2.6 in	3 in	Web	BK32	—	**5RJK0**	**5RJJ9**	**5RJK1**	**5RJJ8**	—	—
3.55 in	—	2.8 in	3.2 in	Web	BK34	—	**5RJK5**	**5RJK4**	**5RJK6**	**5RJK3**	—	—
3.75 in	—	3 in	3.4 in	Web	BK36	—	**5RJL1**	**5RJL0**	**5RJL2**	**5RJK8**	**5RJK9**	—
3.95 in	—	3.2 in	3.6 in	Web	BK40	—	**5RJL7**	**5RJL6**	**5RJL8**	**5RJL4**	**5RJL5**	—
4.25 in	—	3.5 in	3.9 in	Web	BK45	—	**5UHD3**	**5UHD2**	**5UHD4**	**5RJN0**	**5UHD1**	—
4.75 in	—	4 in	4.4 in	Arm	BK50	—	**5UHE0**	**5UHD9**	—	**5UHD7**	**5UHD8**	—
4.95 in	—	4.2 in	4.6 in	Arm	BK52	—	**5UHE5**	**5UHE4**	**5UHE6**	**5UHE2**	**5UHE3**	—
BK Series 2 Groove												
2.65 in	—	1.9 in	2.3 in	Solid	2BK25	—	**5UHH4**	**5UHH3**	**5UHH5**	—	—	—
2.85 in	—	2.1 in	2.5 in	Solid	2BK27	—	**5UHH7**	—	**5UHH8**	**5UHH6**	—	—
2.95 in	—	2.2 in	2.6 in	Solid	2BK28	—	**5UHJ1**	—	—	**5UHH9**	**5UHJ0**	—
2.95 in	—	—	2.6 in	Solid	2BK28	—	—	—	**5UHJ2**	—	—	—
3.15 in	—	2.4 in	2.8 in	Solid	2BK30	—	**5UHJ6**	**5UHJ5**	**5UHJ7**	**5UHJ3**	**5UHJ4**	—
3.35 in	—	2.6 in	3 in	Solid	2BK32	—	—	—	**5UHK1**	**5UHJ9**	**5UHK0**	—
3.55 in	—	2.8 in	3.2 in	Solid	2BK34	—	**5UHK5**	**5UHK4**	**5UHK6**	—	**5UHK3**	—
3.75 in	—	3 in	3.4 in	Solid	2BK36	—	**5UHL0**	—	**5UHL1**	—	**5UHK8**	**5UHK9**
3.95 in	—	3.2 in	3.6 in	Web	2BK40	—	—	—	—	**5UHL3**	**5UHL4**	—
4.25 in	—	3.5 in	3.9 in	Web	2BK45	—	—	—	—	**5UHL6**	**5UHL7**	**5UHL8**
4.45 in	—	3.7 in	4.1 in	Web	2BK47	—	—	—	—	**5UHN0**	**5UHN1**	—
4.75 in	—	4 in	4.4 in	Web	2BK50	—	—	—	—	—	**5UHN3**	—
4.95 in	—	4.2 in	4.6 in	Web	2BK52	—	—	—	—	—	**5UHN5**	—

** To complete Mfr. Model, add Bore Dia.*

Find more information on Standard Keyway and Setscrew Machining on page 119.

Fenner Drives®

Fixed-Bore Composite V-Belt Pulleys

- Spoke construction
- Sintered metal drive hub
- Standard keyway with 5/16-18 setscrew
- Directly interchangeable with industry standard AK sheaves

High-strength corrosion-resistant PowerMax DriveN V-Pulleys are molded of lightweight glass-reinforced nylon.

Outside Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	BORE DIA. 5/8 in Item No.	3/4 in Item No.	1 in Item No.
5.75 in	5.5 in	AFD59	**6VPF3**	**6VPF4**	**6VPF5**
7.25 in	7 in	AFD74	**6VPF6**	**6VPF7**	**6VPF8**
8.25 in	8 in	AFD84	**6VPF9**	**6VPG0**	**6VPG1**
9.25 in	9 in	AFD94	**6VPG2**	**6VPG3**	**6VPG4**
10.25 in	10 in	AFD104	**6VPG5**	**6VPG6**	**6VPG7**
10.98 in	10.73 in	AFD112	**6VPG8**	**6VPG9**	**6VPH0**
12.25 in	12 in	AFD124	**6VPH1**	**6VPH2**	**6VPH3**

** To complete Mfr. Model, add Bore Dia.*

6VPF3

Web Construction
5UHD5

Solid Construction
5UHJ8

Arm Construction
5RJG0

TB Wood's® Incorporated

Bushed-Bore Light-Duty Cast-Iron V-Belt Pulleys

- Efficient and lightweight
- Require QT quick-detachable bushings; order separately on page 115

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model	Item No.
AK Series Single Groove					
6.45 in	6.2 in	—	Arm	AK66	**6YRD4**
6.75 in	6.5 in	—	Arm	AK69	**6YRD3**
7.25 in	7 in	—	Arm	AK74	**6YRD1**
7.75 in	7.5 in	—	Arm	AK79	**6YRD0**
9.25 in	9 in	—	Arm	AK94	**6YRD2**
BK Series Single Groove					
3.15 in	2.4 in	2.8 in	Solid	BK30	**5RJJ2**
3.35 in	2.6 in	3 in	Solid	BK32	**5RJJ7**
3.55 in	2.8 in	3.2 in	Solid	BK34	**5RJK2**
3.75 in	3 in	3.4 in	Web	BK36	**5RJK7**
3.95 in	3.2 in	3.6 in	Web	BK40	**5RJL3**
4.25 in	3.5 in	3.9 in	Web	BK45	**5RJL9**
4.45 in	3.7 in	4.1 in	Web	BK47	**5UHD5**
4.75 in	4 in	4.4 in	Web	BK50	**5UHD6**
4.95 in	4.2 in	4.6 in	Web	BK52	**5UHE1**
5.25 in	4.5 in	4.9 in	Web	BK55	**5UHE7**
5.45 in	4.7 in	5.1 in	Web	BK57	**5UHE8**
5.75 in	5 in	5.4 in	Web	BK60	**5UHE9**
5.95 in	5.2 in	5.6 in	Web	BK62	**5UHF0**

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model	Item No.
BK Series Single Groove (Cont.)					
6.25 in	5.5 in	5.9 in	Web	BK65	**5UHF1**
6.45 in	5.7 in	6.1 in	Web	BK67	**5UHF2**
6.75 in	6 in	6.4 in	Arm	BK70	**5UHF3**
6.95 in	6.2 in	6.6 in	Arm	BK72	**5UHF4**
7.25 in	6.5 in	6.9 in	Arm	BK75	**5UHF5**
7.75 in	7 in	7.4 in	Arm	BK80	**5UHF6**
8.25 in	7.5 in	7.9 in	Arm	BK85	**5UHF7**
8.75 in	8 in	8.4 in	Arm	BK90	**5UHF8**
9.25 in	8.5 in	8.9 in	Arm	BK95	**5UHF9**
9.75 in	9 in	9.4 in	Arm	BK100	**5RJG0**
10.25 in	9.5 in	9.9 in	Arm	BK105	**5RJG1**
10.75 in	10 in	10.4 in	Arm	BK110	**5RJG2**
11.25 in	10.5 in	10.9 in	Arm	BK115	**5RJG3**
11.75 in	11 in	11.4 in	Arm	BK120	**5RJG4**
12.75 in	12 in	12.4 in	Arm	BK130	**5RJG5**
13.75 in	13 in	13.4 in	Arm	BK140	**5RJG6**
14.75 in	14 in	14.4 in	Arm	BK150	**5RJG7**
15.75 in	15 in	15.4 in	Arm	BK160	**5RJG8**
18.75 in	18 in	18.4 in	Arm	BK190	**5RJG9**

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model	Item No.
BK Series 2 Groove					
3.35 in	2.6 in	3 in	Solid	2BK32	**5UHJ8**
3.55 in	2.8 in	3.2 in	Solid	2BK34	**5UHK2**
3.75 in	3 in	3.4 in	Solid	2BK36	**5UHK7**
3.95 in	3.2 in	3.6 in	Solid	2BK40	**5UHL2**
4.25 in	3.5 in	3.9 in	Solid	2BK45	**5UHL5**
4.45 in	3.7 in	4.1 in	Web	2BK47	**5UHL9**
4.75 in	4 in	4.4 in	Web	2BK50	**5UHN2**
4.95 in	4.2 in	4.6 in	Web	2BK52	**5UHN4**
5.25 in	4.5 in	4.9 in	Web	2BK55	**5UHN6**
5.45 in	4.7 in	5.1 in	Web	2BK57	**5UHN7**
5.75 in	5 in	5.4 in	Web	2BK60	**5UHN8**
5.95 in	5.2 in	5.6 in	Web	2BK62	**5UHN9**
6.25 in	5.5 in	5.9 in	Arm	2BK65	**5UHP0**
6.45 in	5.7 in	6.1 in	Arm	2BK67	**5UHP1**
6.75 in	6 in	6.4 in	Arm	2BK70	**5UHP2**
7.75 in	7 in	7.4 in	Arm	2BK80	**5UHP3**
8.75 in	8 in	8.4 in	Arm	2BK90	**5UHP4**
9.75 in	9 in	9.4 in	Arm	2BK100	**5UHG6**
10.75 in	10 in	10.4 in	Arm	2BK110	**5UHG7**
11.75 in	11 in	11.4 in	Arm	2BK120	**5UHG8**
12.75 in	12 in	12.4 in	Arm	2BK130	**5UHG9**
13.75 in	13 in	13.4 in	Arm	2BK140	**5UHH0**
15.75 in	15 in	15.4 in	Arm	2BK160	**5UHH1**
18.75 in	18 in	18.4 in	Arm	2BK190	**5UHH2**

TB Wood's Incorporated

Quick-Detachable Classical Cast-Iron V-Belt Pulleys

Solid Construction 5YKE1

Arm Construction 5YKC5

- Fine-grain, high-tensile cast-iron
- Require bushings, sold separately on page 115

For use with single or banded V-belts with either wrapped or cogged construction. Not for use with banded A belts.

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Bushing Req.	Construction	Mfr. Model	Item No.
For 4L, 5L, A, AX, B, BX V-Belt Section						
1 Groove						
3.75 in	3 in	3.4 in	SH	Solid	341B	**5YKD9**
3.95 in	3.2 in	3.6 in	SH	Solid	361B	**5YKE3**
4.55 in	3.8 in	4.2 in	SH	Solid	421B	**6YRD9**
4.75 in	4 in	4.4 in	SH	Solid	441B	**5YKE9**
4.95 in	4.2 in	4.6 in	SDS	Solid	461B	**5YKF1**
5.15 in	4.4 in	4.8 in	SDS	Solid	481B	**5YKF5**
5.35 in	4.6 in	5 in	SDS	Solid	501B	**5YKF8**
5.55 in	4.8 in	5.2 in	SDS	Solid	521B	**10Y268**
5.75 in	5 in	5.4 in	SDS	Solid	541B	**10Y269**
5.95 in	5.2 in	5.6 in	SDS	Solid	561B	**5YKG8**
6.15 in	5.4 in	5.8 in	SDS	Solid	581B	**10Y271**
11.35 in	10.6 in	11 in	SDS	Arm	1101B	**5YJZ9**
12.75 in	12 in	12.4 in	SDS	Arm	1241B	**6YRD5**
13.95 in	13.2 in	13.6 in	SDS	Arm	1361B	**6YRD6**
15.75 in	15 in	15.4 in	SK	Arm	1541B	**5YKC5**
16.35 in	15.6 in	16 in	SK	Arm	1601B	**6YRD7**
18.75 in	18 in	18.4 in	SK	Arm	1841B	**6YRD8**
25.35 in	24.6 in	25 in	SF	Arm	2501B	**10Y264**
2 Groove						
3.75 in	3 in	3.4 in	SH	Solid	342B	**5YKE0**
3.95 in	3.2 in	3.6 in	SH	Solid	362B	**5YKE4**
4.15 in	3.4 in	3.8 in	SH	Solid	382B	**5YKE5**
4.35 in	3.6 in	4 in	SH	Solid	402B	**5YKE6**
4.55 in	3.8 in	4.2 in	SH	Solid	422B	**5YKE8**
4.75 in	4 in	4.4 in	SH	Solid	442B	**5YKF0**
4.95 in	4.2 in	4.6 in	SDS	Solid	462B	**5YKF2**
5.15 in	4.4 in	4.8 in	SDS	Solid	482B	**5YKF6**
5.35 in	4.6 in	5 in	SDS	Solid	502B	**5YKF9**
5.55 in	4.8 in	5.2 in	SDS	Solid	522B	**5YKG3**
5.75 in	5 in	5.4 in	SDS	Solid	542B	**5YKG6**
5.95 in	5.2 in	5.6 in	SDS	Solid	562B	**5YKG9**
6.15 in	5.4 in	5.8 in	SDS	Solid	582B	**5YKH2**
11.35 in	10.6 in	11 in	SK	Arm	1102B	**5YKA0**
12.75 in	12 in	12.4 in	SK	Arm	1242B	**5YKA8**
13.95 in	13.2 in	13.6 in	SK	Arm	1362B	**5YKC1**
15.75 in	15 in	15.4 in	SK	Arm	1542B	**5YKC6**
16.35 in	15.6 in	16 in	SK	Arm	1602B	**5YKC8**
18.75 in	18 in	18.4 in	SK	Arm	1842B	**5YKD3**
20.4 in	19.6 in	20.0 in	SF	Arm	2002B	**5YKD4**
23.75 in	23 in	23.4 in	SF	Arm	2342B	**38X840**
25.35 in	24.6 in	25 in	SF	Arm	2502B	**5YKD7**
3 Groove						
3.75 in	3 in	3.4 in	SH	Solid	343B	**5YKE1**
3.95 in	3.2 in	3.6 in	SH	Solid	363B	**6YRF1**
4.15 in	3.4 in	3.8 in	SH	Solid	383B	**6YRF2**
4.35 in	3.6 in	4 in	SH	Solid	403B	**5YKE7**
4.55 in	3.8 in	4.2 in	SH	Solid	423B	**6UDR4**
4.75 in	4 in	4.4 in	SH	Solid	443B	**6UDR5**
4.95 in	4.2 in	4.6 in	SD	Solid	463B	**5YKF3**
5.15 in	4.4 in	4.8 in	SD	Solid	483B	**5YKF7**
5.35 in	4.6 in	5 in	SD	Solid	503B	**5YKG0**
5.55 in	4.8 in	5.2 in	SD	Solid	523B	**5YKG4**
5.75 in	5 in	5.4 in	SD	Solid	543B	**5YKG7**
5.95 in	5.2 in	5.6 in	SD	Solid	563B	**5YKH0**
6.15 in	5.4 in	5.8 in	SD	Solid	583B	**5YKH3**
11.35 in	10.6 in	11 in	SK	Arm	1103B	**5YKA1**
12.75 in	12 in	12.4 in	SK	Arm	1243B	**5YKA9**
13.95 in	13.2 in	13.6 in	SK	Arm	1363B	**5YKC2**
15.75 in	15 in	15.4 in	SK	Arm	1543B	**6YRE9**
16.35 in	15.6 in	16 in	SK	Arm	1603B	**10Y261**
18.75 in	18 in	18.4 in	SK	Arm	1843B	**6YRF0**
4 Groove						
3.75 in	3 in	3.4 in	SD	Solid	344B	**39P329**
4.15 in	3.4 in	3.8 in	SD	Solid	384B	**39P330**
4.55 in	3.8 in	4.2 in	SD	Solid	424B	**10Y265**
4.75 in	4 in	4.4 in	SD	Solid	444B	**10Y266**
4.95 in	4.2 in	4.6 in	SD	Solid	464B	**5YKF4**
5.15 in	4.4 in	4.8 in	SD	Solid	484B	**6YRE7**
5.35 in	4.6 in	5 in	SD	Solid	504B	**10Y267**
5.55 in	4.8 in	5.2 in	SD	Solid	524B	**5YKG5**
5.75 in	5 in	5.4 in	SD	Solid	544B	**10Y270**
5.95 in	5.2 in	5.6 in	SD	Solid	564B	**5YKH1**
6.15 in	5.4 in	5.8 in	SD	Solid	584B	**10Y272**
11.35 in	10.6 in	11 in	SK	Arm	1104B	**10Y259**
12.75 in	12 in	12.4 in	SK	Arm	1244B	**5YKC0**
13.95 in	13.2 in	13.6 in	SK	Arm	1364B	**10Y260**
15.75 in	15 in	15.4 in	SF	Arm	1544B	**5YKC7**
16.35 in	15.6 in	16 in	SF	Arm	1604B	**10Y262**
18.75 in	18 in	18.4 in	SF	Arm	1844B	**10Y263**
For 4L, A, AX, B, BX V-Belt Section						
1 Groove						
6.35 in	5.6 in	6 in	SDS	Solid	601B	**6YRE0**
6.55 in	5.8 in	6.2 in	SDS	Solid	621B	**6YRE1**
6.75 in	6 in	6.4 in	SDS	Solid	641B	**6YRE2**
6.95 in	6.2 in	6.6 in	SDS	Solid	661B	**6YRE3**
7.15 in	6.4 in	6.8 in	SDS	Solid	681B	**5YKJ7**
7.35 in	6.6 in	7 in	SDS	Web	701B	**6YRE4**
7.75 in	7 in	7.4 in	SDS	Web	741B	**5YKK6**
8.35 in	7.6 in	8 in	SDS	Web	801B	**6YRE5**
8.95 in	8.2 in	8.6 in	SDS	Web	861B	**6YRE6**
9.75 in	9 in	9.4 in	SDS	Arm	941B	**5YKP0**
2 Groove						
6.35 in	5.6 in	6 in	SDS	Solid	602B	**5YKH4**
6.55 in	5.8 in	6.2 in	SDS	Solid	622B	**5YKJ0**
6.75 in	6 in	6.4 in	SDS	Solid	642B	**5YKJ3**
6.95 in	6.2 in	6.6 in	SDS	Solid	662B	**5YKJ5**
7.15 in	6.4 in	6.8 in	SDS	Solid	682B	**5YKJ8**
7.35 in	6.6 in	7 in	SK	Solid	702B	**5YKK0**
7.75 in	7 in	7.4 in	SK	Web	742B	**5YKK7**
8.35 in	7.6 in	8 in	SK	Web	802B	**5YKL3**
8.95 in	8.2 in	8.6 in	SK	Web	862B	**5YKN3**
9.35 in	8.6 in	9 in	SK	Arm	902B	**6UDR6**
9.75 in	9 in	9.4 in	SK	Arm	942B	**5YKP1**
3 Groove						
6.35 in	5.6 in	6 in	SD	Solid	603B	**5YKH5**
6.55 in	5.8 in	6.2 in	SD	Solid	623B	**5YKJ1**
6.75 in	6 in	6.4 in	SD	Solid	643B	**5YKJ4**
6.95 in	6.2 in	6.6 in	SD	Web	663B	**5YKJ6**
7.15 in	6.4 in	6.8 in	SD	Web	683B	**5YKJ9**
7.35 in	6.6 in	7 in	SK	Solid	703B	**5YKK2**
7.75 in	7 in	7.4 in	SK	Solid	743B	**5YKK8**
8.35 in	7.6 in	8 in	SK	Web	803B	**5YKL5**
8.95 in	8.2 in	8.6 in	SK	Web	863B	**5YKN4**
9.35 in	8.6 in	9 in	SK	Arm	903B	**6UDR7**
9.75 in	9 in	9.4 in	SK	Arm	943B	**5YKP2**
4 Groove						
6.35 in	5.6 in	6 in	SD	Solid	604B	**5YKH7**
6.55 in	5.8 in	6.2 in	SD	Solid	624B	**5YKJ2**
6.75 in	6 in	6.4 in	SD	Solid	644B	**6YRE8**
6.95 in	6.2 in	6.6 in	SD	Solid	664B	**10Y292**
7.15 in	6.4 in	6.8 in	SD	Solid	684B	**10Y293**
7.35 in	6.6 in	7 in	SK	Solid	704B	**10Y294**
7.75 in	7 in	7.4 in	SK	Web	744B	**5YKK9**
8.35 in	7.6 in	8 in	SK	Web	804B	**5YKL7**
8.95 in	8.2 in	8.6 in	SK	Web	864B	**10Y295**
9.35 in	8.6 in	9 in	SK	web	904B	**10Y297**
9.75 in	9 in	9.4 in	SK	Web	944B	**5YKP3**

Outside Dia.	C or CX Belt Pitch Dia.	Bushing Req.	Construction	Mfr. Model	Item No.
For C, CX V-Belt Section					
2 Groove					
8.4 in	8.0 in	SF	Solid	802C	**5YKL4**
9.4 in	9.0 in	SF	Web	902C	**5YKN5**
3 Groove					
5.4 in	5.0 in	SD	Solid	503C	**5YKG1**
7.4 in	7.0 in	SF	Solid	703C	**5YKK3**
7.9 in	7.5 in	SF	Solid	753C	**5YKL0**
8.4 in	8.0 in	E	Solid	803C	**5YKL6**
9.4 in	9.0 in	E	Solid	903C	**5YKN6**
10.4 in	10.0 in	E	Solid	1003C	**5YJZ4**
11.4 in	11.0 in	E	Web	1103C	**5YKA2**
12.4 in	12.0 in	E	Web	1203C	**5YKA5**
16.4 in	16.0 in	E	Arm	1603C	**5YKD0**
24.4 in	24.0 in	E	Arm	2403C	**5YKD6**
4 Groove					
8.4 in	8.0 in	E	Solid	804C	**5YKL8**
9.9 in	9.5 in	E	Solid	954C	**5YKP4**
10.4 in	10.0 in	E	Solid	1004C	**5YJZ5**
10.9 in	10.5 in	E	Web	1054C	**5YJZ8**
12.4 in	12.0 in	E	Web	1204C	**5YKA6**
14.4 in	14.0 in	E	Arm	1404C	**5YKC4**
20.4 in	20.0 in	E	Arm	2004C	**5YKD5**
30.4 in	30.0 in	F	Arm	3004C	**5YKD8**
36.4 in	36.0 in	F	Arm	3604C	**5YKE2**
5 Groove					
10.4 in	10.0 in	E	Solid	1005C	**5YJZ6**

TB Wood's Incorporated · Gates

Quick-Detachable Wedge Cast-Iron V-Belt Pulleys

- Cast iron, except TB Woods are fine-grain, high-tensile cast iron
- Require bushings; order separately on page 115

Utilize single or banded V-belts with either wrapped or cogged construction.

Solid Construction 5YKR4

Web Construction 5YLE2

Outside Dia.	Bushing Req.	Construction	Max. Bore Dia.	Min. Bore Dia.	Brand	Mfr. Model	Item No.
For 3V, 3VX V-Belt Section							
1 Groove							
2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2651	**5YKR4**
3 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V301	**6UDP0**
3.15 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3151	**6UDP2**
3.35 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3.351	**5YKR6**
3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3651	**6UDP4**
4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4121	**6UDP5**
4.5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V451	**6UDP6**
4.75 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4751	**6UDP7**
5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V501	**6UDP8**
5.3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V531	**5YKU8**
5.6 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V561	**6UDP9**
6 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V601	**6UDR0**
6.5 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V651	**6UDR1**
6.9 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V691	**6UDR2**
8 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V801	**6UDR3**
10.6 in	SDS	Arm	1 15/16 in	½ in	TB Woods	3V1061	**6YRF3**
14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1401	**6YRF4**
19 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1901	**6YRF6**
2 Groove							
2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2652	**5YKR5**
3 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V302	**5YKT0**
3.15 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3152	**5YKT2**
3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.352	**5YKR7**
3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3652	**5YKT3**
4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4122	**5YKT6**
4.5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V452	**5YKT9**
4.75 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4752	**5YKU2**
5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V502	**5YKU4**
5.3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V532	**5YKU9**
5.6 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V562	**5YKV2**
6 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V602	**5YKV5**
6.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V652	**5YKV9**
6.9 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V692	**5YKW2**
8 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V802	**5YKW4**
10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1062	**5YKP7**
14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1402	**5YKR0**
19 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1902	**5YKR2**
25 in	SF	Arm	2 15/16 in	½ in	TB Woods	3V2502	**6UDN8**
3 Groove							
2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2653	**6UDN9**
3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V303	**6UDP1**
3.15 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3153	**6UDP3**
3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.353	**5YKR8**
3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3653	**5YKT4**
4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4123	**5YKT7**
4.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V453	**5YKU0**
4.75 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V4753	**5YKU3**
5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V503	**5YKU5**
5.3 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V533	**5YKV0**
5.6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V563	**5YKV3**
6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V603	**5YKV6**
6.5 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V653	**5YKW0**
6.9 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V693	**5YKW3**
8 in	SK	Web	2 ½ in	½ in	TB Woods	3V803	**5YKW5**
10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1063	**5YKP8**
14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1403	**6YRF5**
4 Groove							
3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V304	**5YKT1**
3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.354	**5YKR9**
3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3654	**5YKT5**
4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4124	**5YKT8**
4.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V454	**5YKU1**
5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V504	**5YKU6**
5.3 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V534	**5YKV1**
5.6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V564	**5YKV4**
6 in	SK	Solid	2 ½ in	½ in	TB Woods	3V604	**5YKV7**
6.5 in	SK	Solid	2 ½ in	½ in	TB Woods	3V654	**5YKW1**
8 in	SK	Web	2 ½ in	½ in	TB Woods	3V804	**5YKW6**
10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1064	**5YKP9**
14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1404	**5YKR1**
19 in	SF	Arm	2 15/16 in	½ in	TB Woods	3V1904	**5YKR3**
5 Groove							
5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V505	**5YKU7**
6 in	SK	Solid	2 ½ in	½ in	TB Woods	3V605	**5YKV8**
For 5V, 5VX V-Belt Section							
2 Groove							
4.4 in	SH	Solid	1 ⅝ in	½ in	TB Woods	5V442	**10Y277**
4.65 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V4652	**10Y280**
4.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V492	**5YLA9**
5.2 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V522	**10Y285**
5.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V552	**5YLC0**
5.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V592	**10Y289**
6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V632	**5YLC3**
6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V672	**5YLC6**
7.1 in	SK	Solid	2 ½ in	½ in	TB Woods	5V712	**5YLC8**
7.5 in	SK	Solid	2 ½ in	½ in	TB Woods	5V752	**5YLD3**
8 in	SK	Solid	2 ½ in	½ in	Gates	QD2/5V8.00	**1NGU4**
8 in	SK	Solid	2 ½ in	½ in	TB Woods	5V802	**5YLD7**
8.5 in	SK	Web	2 ½ in	½ in	TB Woods	5V852	**5YLE2**
9 in	SK	Web	2 ½ in	½ in	TB Woods	5V902	**5YLE6**
9.25 in	SK	Web	2 ½ in	½ in	TB Woods	5V9252	**5YLF0**

Outside Dia.	Bushing Req.	Construction	Max. Bore Dia.	Min. Bore Dia.	Brand	Mfr. Model	Item No.
For 5V, 5VX V-Belt Section (Cont.)							
2 Groove (Cont.)							
9.75 in	SK	Arm	2 ½ in	½ in	TB Woods	5V9752	**5YLF3**
10.3 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1032	**5YKW7**
10.9 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1092	**5YKX1**
11.3 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1132	**5YKX6**
11.8 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1182	**5YKY0**
12.5 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1252	**10Y273**
13.2 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1322	**5YKY7**
14 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1402	**5YKZ2**
15 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1502	**39P331**
16 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1602	**10Y274**
18.7 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1872	**10Y275**
3 Groove							
4.4 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V443	**10Y278**
4.65 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V4653	**10Y281**
4.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V493	**10Y283**
5.2 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V523	**10Y286**
5.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V553	**5YLC1**
5.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V593	**5YLC2**
6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V633	**5YLC4**
6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V673	**5YLC7**
7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V713	**5YLC9**
7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V753	**5YLD4**
8 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V803	**5YLD8**
8.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V853	**5YLE3**
9 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V903	**5YLE7**
9.25 in	SF	Web	2 15/16 in	½ in	TB Woods	5V9253	**5YLF1**
9.75 in	SF	Web	2 15/16 in	½ in	TB Woods	5V9753	**5YLF4**
10.3 in	SF	Web	2 15/16 in	½ in	TB Woods	5V1033	**5YKW8**
10.9 in	SF	Web	2 15/16 in	½ in	TB Woods	5V1093	**5YKX2**
11.3 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1133	**5YKX7**
11.8 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1183	**5YKY1**
12.5 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1253	**5YKY4**
13.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1323	**5YKY8**
14 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1403	**5YKZ3**
15 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1503	**39P332**
16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1603	**5YKZ6**
18.7 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1873	**5YLA0**
21.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2123	**5YLA1**
28 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2803	**5YLA5**
4 Groove							
4.4 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V444	**10Y279**
4.65 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V4654	**10Y282**
4.9 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V494	**10Y284**
5.2 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V524	**10Y287**
5.5 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V554	**10Y288**
5.9 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V594	**10Y290**
6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V634	**5YLC5**
6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V674	**10Y291**
7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V714	**5YLD0**
7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V754	**5YLD5**
8 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V804	**5YLD9**
8.5 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V854	**5YLE4**
9 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V904	**5YLE8**
9.25 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V9254	**5YLF2**
9.75 in	E	Web	3 ½ in	⅞ in	TB Woods	5V9754	**5YLF5**
10.3 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1034	**5YKW9**
10.9 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1094	**5YKX3**
11.3 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1134	**5YKX8**
11.8 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1184	**5YKY2**
12.5 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1254	**5YKY5**
13.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1324	**5YKY9**
14 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1404	**5YKZ4**
15 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1504	**39P333**
16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1604	**5YKZ7**
18.7 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1874	**10Y276**
21.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2124	**5YLA2**
23.6 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2364	**5YLA3**
28 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2804	**5YLA6**
31.5 in	F	Arm	3 15/16 in	1 in	TB Woods	5V3154	**5YLA8**
5 Groove							
11.8 in	E	Web	3 ½ in	⅞ in	Gates	QD5/5V11.80	**1NHD3**
16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1605	**5YKZ8**
18.7 in	E	Arm	3 15/16 in	1 in	Gates	QD5/5V18.70	**1NHD9**
23.6 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2365	**5YLA4**
7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V715	**5YLD1**
7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V755	**5YLD6**
9.75 in	E	Solid	3 ½ in	⅞ in	Gates	QD5/5V9.75	**1NHF1**
9.75 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V9755	**5YLF6**
6 Groove							
7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V716	**5YLD2**
8 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V806	**5YLE1**
13.2 in	F	Web	3 15/16 in	1 in	TB Woods	5V1326	**5YKZ1**

PowerDrive

Web Construction 6FFT6

Timing Belt Pulleys

- For XL, L, and H timing belts, see page 106

No-slip positive drive pulleys with wide belt speed and load capacity ranges maintain a constant speed ratio.

Plain Bore—For light-duty applications up to ¼ HP. Aluminum material. Each includes 2 hollow head setscrews; no keyway.

- Standard keyway and setscrew machining guide located on page 119

Bushed Bore—Steel material. Select ⅜" pulleys for applications up to 4 HP, ½" pulleys for applications up to 20 HP.

- Require bushings; order separately on page 115

No. of Grooves	Bore Dia.	Max. Bore Dia.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Construction	Item No.
Plain Bore, ⅕ in Pitch for ¼ in, ⅜ in Wide XL Timing Belts								
10	3/16 in	¼ in	0.637 in	0.617 in	⅞ in	9/16 in	Solid	**6FFR3**
12	3/16 in	5/16 in	0.764 in	0.744 in	1 in	9/16 in	Solid	**6FFR5**
14	¼ in	⅜ in	0.891 in	0.871 in	1 ⅛ in	9/16 in	Solid	**6FFR6**
15	¼ in	⅜ in	0.955 in	0.935 in	1 3/16 in	9/16 in	Solid	**6FFR7**
16	¼ in	7/16 in	1.019 in	0.999 in	1 ¼ in	9/16 in	Solid	**6FFR8**
18	¼ in	½ in	1.146 in	1.126 in	1 ⅜ in	9/16 in	Solid	**6FFR9**
20	¼ in	9/16 in	1.273 in	1.253 in	1 ½ in	9/16 in	Solid	**6FFT0**
21	¼ in	⅝ in	1.337 in	1.317 in	1 9/16 in	9/16 in	Solid	**6FFT1**
22	¼ in	⅝ in	1.401 in	1.318 in	1 ⅝ in	9/16 in	Solid	**6FFT2**
24	¼ in	⅝ in	1.528 in	1.508 in	1 ¾ in	9/16 in	Solid	**6FFT3**
28	¼ in	¾ in	1.783 in	1.763 in	2 in	9/16 in	Solid	**6FFT4**
30	5/16 in	13/16 in	1.91 in	1.89 in	2 ⅛ in	9/16 in	Solid	**6FFT5**
32	5/16 in	1 in	2.037 in	2.017 in	—	9/16 in	Web	**6FFT6**
36	5/16 in	1 in	2.295 in	2.272 in	—	9/16 in	Web	**6FFT7**
40	5/16 in	1 in	2.456 in	2.526 in	—	9/16 in	Web	**6FFT8**
44	5/16 in	1 in	2.801 in	2.781 in	—	9/16 in	Web	**6FFV0**
48	5/16 in	1 in	3.056 in	3.036 in	—	9/16 in	Web	**6FFV1**
60	⅜ in	1 in	3.82 in	3.8 in	—	9/16 in	Web	**6FFV2**
72	⅜ in	1 in	4.584 in	4.564 in	—	9/16 in	Web	**6FFV3**

No. of Grooves	Bushing Req.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Construction	Item No.
Bushed Bore, ⅜ in Pitch for ½ in Wide L Timing Belts							
18	G	2.149 in	2.119 in	2 ⅜ in	¾ in	Solid	**6FFV4**
19	G	2.268 in	2.238 in	2 ⅝ in	¾ in	Solid	**6FFV5**
20	G	2.387 in	2.357 in	2 ⅝ in	¾ in	Solid	**6FFV6**
21	G	2.507 in	2.477 in	2 ¾ in	¾ in	Solid	**6FFV7**
22	G	2.626 in	2.596 in	3 in	¾ in	Solid	**6FFV8**
24	H, QT	2.865 in	2.835 in	3 ¼ in	¾ in	Solid	**6FFV9**
26	H, QT	3.104 in	3.074 in	3 5/16 in	¾ in	Solid	**6GEG6**
28	H, QT	3.342 in	3.312 in	3 9/16 in	¾ in	Solid	**6GEG7**
30	H, QT	3.581 in	3.551 in	3 ¾ in	¾ in	Solid	**6GEG8**
32	H, QT	3.82 in	3.79 in	4 1/16 in	¾ in	Solid	**6GEG9**
36	H, QT	4.297 in	4.267 in	4 17/32 in	¾ in	Solid	**6GEH0**
40	H, QT	4.775 in	4.745 in	5 in	¾ in	Solid	**6GEH1**
44	H, QT	5.252 in	5.222 in	5 ½ in	¾ in	Solid	**6GEH2**
48	H, QT	5.73 in	5.7 in	6 in	¾ in	Solid	**6GEH3**
Bushed Bore, ⅜ in Pitch for 1 in Wide L Timing Belts							
18	G	2.149 in	2.119 in	2 ⅜ in	1 ¼ in	Solid	**6GEH5**
19	G	2.268 in	2.238 in	2 ⅝ in	1 ¼ in	Solid	**6GEH6**
20	G	2.387 in	2.357 in	2 ⅝ in	1 ¼ in	Solid	**6GEH7**
21	G	2.507 in	2.477 in	2 ¾ in	1 ¼ in	Solid	**6GEH8**
22	G	2.626 in	2.596 in	3 in	1 ¼ in	Solid	**6GEH9**
24	H, QT	2.865 in	2.835 in	3 ¼ in	1 ¼ in	Solid	**6GEJ0**
26	H, QT	3.104 in	3.074 in	3 5/16 in	1 ¼ in	Solid	**6GEJ1**
28	H, QT	3.342 in	3.312 in	3 9/16 in	1 ¼ in	Solid	**6GEJ2**
30	H, QT	3.51 in	3.551 in	3 ¾ in	1 ¼ in	Solid	**6GEJ3**
32	H, QT	3.82 in	3.79 in	4 1/16 in	1 ¼ in	Solid	**6GEJ4**
36	H, QT	4.297 in	4.267 in	4 17/32 in	1 ¼ in	Solid	**6GEJ5**
40	H, QT	4.775 in	4.745 in	5 in	1 ¼ in	Solid	**6GEJ7**
44	H, QT	5.252 in	5.222 in	5 ½ in	1 ¼ in	Solid	**6GEJ8**
48	H, QT	5.73 in	5.7 in	6 in	1 ¼ in	Solid	**6GEJ9**
60	H, QT	7.162 in	7.132 in	—	1 ¼ in	Web	**6GEK0**
Bushed Bore, ½ in Pitch for 1 in Wide H Timing Belts							
14	G	2.228 in	2.174 in	2 ⅜ in	1 ¼ in	Solid	**6GEK1**
16	G	2.546 in	2.492 in	2 ¾ in	1 ¼ in	Solid	**6GEK2**
18	H, QT	2.856 in	2.811 in	3 ¼ in	1 ¼ in	Solid	**6GEK3**
20	H, QT	3.183 in	3.129 in	3 5/16 in	1 ¼ in	Solid	**6GEK4**
22	H, QT	3.501 in	3.447 in	3 ¾ in	1 ¼ in	Solid	**6GEK5**
22	P1	3.501 in	3.447 in	3 ¾ in	1 ¼ in	Solid	**6GEK6**
24	H, QT	3.82 in	3.766 in	4 1/16 in	1 ¼ in	Solid	**6GEK7**
26	H, QT	4.138 in	4.084 in	4 ⅜ in	1 ¼ in	Solid	**6GEK9**
28	H, QT	4.456 in	4.402 in	4 11/16 in	1 ¼ in	Solid	**6GEL0**
30	H, QT	4.775 in	4.721 in	5 in	1 ¼ in	Solid	**6GEL1**
30	P1	4.775 in	4.721 in	5 in	1 ¼ in	Solid	**6GEL2**
32	Q1	5.093 in	5.093 in	5 5/16 in	1 ¼ in	Solid	**6GEL3**
40	Q1	6.366 in	6.312 in	6 9/16 in	1 ¼ in	Solid	**6GEL5**
44	Q1	7.003 in	6.949 in	7 3/16 in	1 ¼ in	Solid	**6GEL6**
48	Q1	7.639 in	7.585 in	8 in	1 ¼ in	Solid	**6GEL7**
60	Q1	9.549 in	9.495 in	—	1 ¼ in	Web	**6GEL8**
72	Q1	11.459 in	11.405 in	—	1 ¼ in	Web	**6GEL9**

Continental ContiTech

Timing Belt Pulleys

- 8mm pitch
- Timing belts sold separately on page 107
- Bushings sold separately on page 115

Positive drive-tooth engagement eliminates slippage and speed variation. Cast-iron pulleys provide uniform speed transfer.

Note: Additional sizes of Continental ContiTech Drive Timing Belt Pulleys are available on Grainger.com.

No. of Grooves	Pitch Dia.	Outside Dia.	12 mm WIDE Bushing Required	12 mm WIDE Item No.	21 mm WIDE Bushing Required	21 mm WIDE Item No.	36 mm WIDE Bushing Required	36 mm WIDE Item No.
Bushed Bore For Use With Falcon HTC Pd and ContiTech Synchrochain Timing Belts								
22	56.023 mm	54.42 mm	—	—	1008	**3PDV4**	—	—
30	76.395 mm	74.79 mm	—	—	—	—	1615	**3PDW4**
Bushed Bore For Use With Falcon Pd and ContiTech Synchrochain Timing Belts								
22	56.023 mm	54.42 mm	1008	**2UWF4**	—	—	—	—
25	63.662 mm	62.06 mm	1108	**2UWF5**	1108	**2UWF6**	—	—
28	71.302 mm	69.7 mm	1108	**2UWG1**	1108	**2UWG2**	—	—
30	76.395 mm	74.79 mm	1108	**2UWG3**	1610	**2UWG4**	—	—
32	81.488 mm	79.89 mm	1210	**2UWG7**	1610	**2UWG8**	1615	**2UWG9**
34	86.581 mm	84.98 mm	1610	**2UWH2**	1610	**2UWH3**	1615	**2UWH4**
36	91.674 mm	90.07 mm	1610	**2UWH6**	1610	**2UWH7**	1615	**2UWH8**
38	96.767 mm	95.17 mm	1610	**2UWJ1**	1610	**2UWJ2**	1615	**2UWJ3**
40	101.86 mm	100.26 mm	1610	**2UWJ4**	1610	**2UWJ5**	2012	**2UWJ6**
45	114.592 mm	112.99 mm	2012	**2UWJ9**	2012	**2UWK1**	2012	**2UWK2**
48	122.231 mm	120.63 mm	2012	**2UWK3**	2012	**2UWK4**	2012	**2UWK5**
50	127.324 mm	127.32 mm	2012	**2UWK6**	2012	**2UWK7**	2012	**2UWK8**
53	134.964 mm	133.59 mm	—	—	2012	**2UWK9**	—	—
56	142.603 mm	141 mm	2012	**2UWL1**	2012	**2UWL2**	2517	**2UWL3**
60	152.789 mm	151.19 mm	2012	**2UWL4**	2517	**2UWL5**	2517	**2UWL6**
75	190.986 mm	189.39 mm	2012	**2UWL8**	2517	**2UWL9**	3020	**2UWN1**
80	203.719 mm	202.12 mm	2012	**2UWN2**	3020	**2UWN3**	3020	**2UWN4**

No. of Grooves	Pitch Dia.	Outside Dia.	20 mm WIDE Bushing Required	20 mm WIDE Item No.	30 mm WIDE Bushing Required	30 mm WIDE Item No.	50 mm WIDE Bushing Required	50 mm WIDE Item No.
Bushed Bore For Use With Hawk Pd and Dual Hi-Performance Pd Timing Belts								
24	61.12 mm	59.74 mm	JA	**3PEC1**	JA	**3PED1**	—	—
30	76.39 mm	75.13 mm	H, QT	**3PEC3**	H, QT	**2UWN5**	—	—
34	86.58 mm	85.22 mm	SH	**3PEC4**	SH	**2UWN7**	SH	**3PED4**
36	91.67 mm	90.3 mm	SH	**3PEC5**	SH	**2UWN8**	SH	**3PED5**
38	96.774 mm	95.4 mm	—	—	SH	**2UWN9**	—	—
40	101.86 mm	100.48 mm	SH	**3PEC6**	SH	**2UWP1**	SH	**3PED6**
44	112.04 mm	110.67 mm	—	—	SDS	**2UWP2**	—	—
48	122.23 mm	120.85 mm	SDS	**3PEC7**	SDS	**3PED2**	SD	**3PED7**
56	142.6 mm	141.22 mm	SDS	**3PEC8**	SDS	**2UWP3**	SK	**3PED8**
64	162.967 mm	161.59 mm	—	—	SK	**2UWP4**	SK	**3PED9**
72	183.35 mm	181.97 mm	SDS	**3PEC9**	SK	**2UWP5**	SK	**3PEF1**
80	203.708 mm	202.34 mm	—	—	SK	**2UWP6**	SF	**3PEF2**

No. of Grooves	Pitch Dia.	Outside Dia.	33 mm WIDE Bushing Required	33 mm WIDE Item No.
Bushed Bore For Use With SilentSync Timing Belts				
32	81.49 mm	80.12 mm	H, QT	**45PN34**
45	114.59 mm	113.22 mm	SDS	**45PN45**
80	203.72 mm	202.35 mm	SF	**45PN60**

No. of Grooves	Bore Dia.	Max. Bore Dia.	Pitch Dia.	Outside Dia.	Flange Dia.	Width	Item No.
Plain Bore For Use With Falcon HTC Pd and ContiTech Synchrochain Timing Belts							
25	½ in	1 ¼ in	63.662 mm	62.06 mm	—	36 mm	**3PDV5**
28	½ in	1 ¼ in	71.302 mm	69.7 mm	—	36 mm	**3PDV9**
Plain Bore For Use With Hawk Pd and Dual Hi-Performance Pd Timing Belts							
22	½ in	1 3/16 in	56.02 mm	54.66 mm	65.0 mm	28.6 mm	**3PEA9**
28	¾ in	1 ⅜ in	71.3 mm	70.08 mm	80.0 mm	60.5 mm	**3PED3**
Plain Bore For Use With SilentSync Timing Belts							
24	½ in	—	61.12 mm	59.75 mm	—	33 mm	**45PN17**
30	½ in	—	76.4 mm	75.03 mm	—	33 mm	**45PN33**
60	½ in	—	152.79 mm	151.42 mm	—	33 mm	**45PN54**
60	½ in	—	152.79 mm	151.42 mm	—	17 mm	**45PM87**

QT Series

F Series

TB Wood's Incorporated

Quick-Detachable Bushings

- Taper: 3/4" per ft.

Split through flange and taper to provide a true clamp. All series except for JA and QT have a setscrew over the key to help maintain the bushing's position until the screws are tightened. For use with sheaves, sprockets, and pulleys.

Bushing Series/ Bore Dia.	Item No.
QT	
1/2 in	5UHZ6
5/8 in	5UJA4
3/4 in	5UJA2
7/8 in	5UJA5
15/16 in	5UHZ9
1 in	5UHZ2
1 1/8 in	5UHZ5
1 3/16 in	5UHZ7
1 1/4 in	5UHZ4
1 3/8 in	5UHZ8
1 7/16 in	5UJA0
1 1/2 in	5UHZ3
14 mm	41D905
19 mm	41D906
24 mm	5UJA1
28 mm	41D907
35 mm	5UJA3
38 mm	41D908
JA	
9/16 in	5YLG6
5/8 in	5YLG4
3/4 in	5YLG3
7/8 in	5YLG5
1 in	5YLF7
1 1/8 in	5YLF9
1 3/16 in	5YLG0
1 1/4 in	5YLF8
19 mm	41D909
20 mm	5YLG1
24 mm	41D910
25 mm	5YLG2
28 mm	41D911
SH	
1/2 in	41D896
5/8 in	10Y307
3/4 in	5YLK9
7/8 in	5YLL0
15/16 in	41D897
1 in	5YLK1
1 1/8 in	5YLK4
1 1/4 in	5YLK3
1 3/8 in	5YLK5
1 7/16 in	5YLK7
1 1/2 in	5YLK2
1 5/8 in	5YLK6
24 mm	5YLK8
28 mm	41D912
SDS	
1/2 in	41D885
5/8 in	10Y305
3/4 in	5YLH8
7/8 in	10Y306
15/16 in	41D887
1 in	5YLH1
1 1/8 in	5YLH4
1 3/16 in	41D886
1 1/4 in	5YLH3
1 3/8 in	5YLH5
1 7/16 in	5YLH7
1 1/2 in	5YLH2
1 5/8 in	5YLH6
1 11/16 in	10Y302
1 7/8 in	10Y304
1 15/16 in	10Y303
24 mm	41D913
28 mm	41D914
38 mm	41D915
42 mm	41D916

Bushing Series/ Bore Dia.	Item No.
SD	
1/2 in	41D876
5/8 in	41D883
3/4 in	41D882
7/8 in	41D884
15/16 in	41D880
1 in	41D875
1 1/8 in	41D879
1 3/16 in	10Y301
1 1/4 in	41D878
1 3/8 in	5YLG7
1 7/16 in	5YLG9
1 1/2 in	41D877
1 9/16 in	41D881
1 5/8 in	5YLG8
1 11/16 in	10Y298
1 7/8 in	5YLH0
1 15/16 in	10Y299
28 mm	41D918
38 mm	41D919
42 mm	41D920
SK	
3/4 in	41D903
7/8 in	41D904
15/16 in	41D899
1 in	10Y308
1 1/8 in	41D898
1 3/16 in	10Y309
1 1/4 in	5YLL3
1 5/16 in	10Y310
1 3/8 in	5YLL6
1 7/16 in	5YLL8
1 1/2 in	5YLL2
1 9/16 in	41D901
1 5/8 in	5YLL7
1 11/16 in	5YLL1
1 3/4 in	5YLL5
1 7/8 in	5YLL9
1 15/16 in	5YLL4
2 in	41D902
2 1/8 in	5YLN0
2 3/16 in	5YLN1
2 7/16 in	5YLN2
2 1/2 in	20LU82
24 mm	41D921
28 mm	41D922
38 mm	41D923
42 mm	41D924
48 mm	41D925
55 mm	41D926
SF	
15/16 in	41D892
1 in	41D888
1 1/8 in	41D890
1 3/16 in	41D891
1 1/4 in	41D889
1 3/8 in	5YLJ3
1 7/16 in	38H450
1 1/2 in	5YLJ0
1 9/16 in	41D894
1 5/8 in	41D893
1 11/16 in	5YLH9
1 3/4 in	5YLJ2

Bushing Series/ Bore Dia.	Item No.
SF (Cont.)	
1 7/8 in	5YLJ4
1 15/16 in	5YLJ1
2 in	5YLJ5
2 1/8 in	5YLJ6
2 3/16 in	5YLJ7
2 1/4 in	41D895
2 3/8 in	5YLJ8
2 7/16 in	5YLJ9
2 7/8 in	5YLK0
38 mm	41D928
42 mm	41D929
48 mm	41D930
55 mm	41D931
E	
1 5/8 in	5YLN6
1 11/16 in	5YLN3
1 3/4 in	5YLN5
1 7/8 in	5YLN7
1 15/16 in	5YLN4
2 in	5YLN8
2 1/8 in	5YLP3
2 3/16 in	5YLP4
2 1/4 in	5YLP1
2 3/8 in	5YLP6
2 7/16 in	5YLP7
2 1/2 in	5YLP0
2 11/16 in	5YLN9
2 3/4 in	5YLP5
2 7/8 in	5YLP8
2 15/16 in	5YLP2
3 3/8 in	5YLP9
3 7/16 in	5YLR0
42 mm	41D933
48 mm	41D934
F	
1 1/4 in	41D860
1 3/8 in	41D863
1 5/8 in	41D864
1 7/8 in	41D866
2 in	1NGJ1
2 1/8 in	5YLR7
2 3/8 in	5YLT0
2 7/16 in	5YLT2
2 1/2 in	1NGJ2
2 5/8 in	5YLT1
2 11/16 in	5YLR3
2 3/4 in	5YLR9
2 7/8 in	5YLT3
2 15/16 in	5YLR6
2 15/16 in	1NGJ7
3 in	5YLT4
3 1/8 in	41D869
3 3/16 in	41D871
3 1/4 in	5YLT6
3 3/8 in	5YLT8
3 7/16 in	5YLT9
3 7/16 in	1NGL7
3 1/2 in	5YLT5
3 7/8 in	41D874
3 15/16 in	5YLT7
55 mm	41D937
60 mm	5YLU0
80 mm	5YLU1

Gates TRITAN

Taper-Lock Bushing

For use with taper-lock style sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. **Gates** bushings include cap screws; **Titan** bushings include set screws.

1008 Series

Bushing Series/ Bore Dia.	Brand	Item No.
1008		
5/8 in	Gates	1NHX1
5/8 in	Tritan	45PX04
3/4 in	Gates	1NHW9
3/4 in	Tritan	45PX03
1 in	Tritan	45PW97
1108		
5/8 in	Gates	1NHX9
5/8 in	Tritan	45PX15
3/4 in	Gates	1NHX8
7/8 in	Gates	1NHY1
1 in	Tritan	45PX09
1 1/8 in	Tritan	45PX08
1210		
5/8 in	Gates	1NHZ4
3/4 in	Gates	1NHZ3
7/8 in	Gates	1NHZ5
1 in	Gates	1NHY3
1 1/8 in	Gates	1NHY6
1 3/16 in	Gates	1NHY7
1 1/4 in	Gates	1NHY5
1215		
1 1/4 in	Tritan	45PX32
1610		
5/8 in	Gates	1NJB6
5/8 in	Tritan	45PX60
3/4 in	Gates	1NJB5
3/4 in	Tritan	45PX59
7/8 in	Gates	1NJB7
7/8 in	Tritan	45PX61
1 in	Gates	1NHZ7
1 in	Tritan	45PX54
1 1/8 in	Gates	1NJA2
1 1/8 in	Tritan	45PX47
1 3/16 in	Gates	1NJA4
1 3/16 in	Tritan	45PX48
1 1/4 in	Gates	1NJA1
1 1/4 in	Tritan	45PX46
1 3/8 in	Gates	1NJA5
1 7/16 in	Gates	1NJA8
1 1/2 in	Gates	1NHZ9
1 1/2 in	Tritan	45PX45
1 5/8 in	Gates	1NJA7
1 11/16 in	Gates	1NJA3

Bushing Series/ Bore Dia.	Brand	Item No.
1615		
1 in	Gates	6FLY2
1 1/8 in	Gates	6FLY4
1 1/4 in	Gates	6FLY6
1 3/8 in	Gates	6FLY8
1 1/2 in	Gates	6FLZ0
1 5/8 in	Gates	6FLZ2
2012		
5/8 in	Gates	1NJE4
3/4 in	Gates	1NJE3
7/8 in	Gates	1NJE5
1 in	Gates	1NJB9
1 in	Tritan	45PX96
1 1/8 in	Gates	1NJC4
1 1/8 in	Tritan	45PX85
1 3/16 in	Gates	1NJC8
1 3/16 in	Tritan	45PX89
1 1/4 in	Gates	1NJC3
1 1/4 in	Tritan	45PX84
1 3/8 in	Gates	1NJD1
1 3/8 in	Tritan	45PX91
1 7/16 in	Gates	1NJD4
1 7/16 in	Tritan	45PX94
1 1/2 in	Gates	1NJC2
1 1/2 in	Tritan	45PX83
1 5/8 in	Gates	1NJD3
1 5/8 in	Tritan	45PX93
1 11/16 in	Gates	1NJC5
1 11/16 in	Tritan	45PX86
1 3/4 in	Gates	1NJC9
1 3/4 in	Tritan	45PX90
1 7/8 in	Gates	1NJD5
1 15/16 in	Gates	1NJC7
1 15/16 in	Tritan	45PX88
2 in	Gates	1NJD7
2 in	Tritan	45PY02
2517		
1 in	Gates	1NJE7
1 in	Tritan	45PY22
1 1/8 in	Gates	1NJF2
1 1/8 in	Tritan	45PY10
1 1/4 in	Gates	1NJF1
1 1/4 in	Tritan	45PY09
1 3/8 in	Gates	1NJF8
1 3/8 in	Tritan	45PY16
1 7/16 in	Gates	1NJG2

Bushing Series/ Bore Dia.	Brand	Item No.
2517 (Cont.)		
1 7/16 in	Tritan	45PY19
1 1/2 in	Gates	1NJE9
1 1/2 in	Tritan	45PY08
1 5/8 in	Gates	1NJG1
1 5/8 in	Tritan	45PY18
1 11/16 in	Gates	1NJF3
1 3/4 in	Tritan	45PY15
1 7/8 in	Gates	1NJG3
1 7/8 in	Tritan	45PY20
1 15/16 in	Gates	1NJF5
1 15/16 in	Tritan	45PY13
2 in	Gates	1NJG5
2 in	Tritan	45PY35
2 1/8 in	Gates	1NJG9
2 1/8 in	Tritan	45PY30
2 3/16 in	Tritan	45PY31
2 1/4 in	Gates	1NJG8
2 1/4 in	Tritan	45PY29
2 3/8 in	Gates	1NJH2
2 3/8 in	Tritan	45PY32
2 7/16 in	Gates	1NJH4
2 7/16 in	Tritan	45PY34
2 1/2 in	Tritan	45PY28
3020		
1 1/2 in	Gates	1NJJ1
1 11/16 in	Tritan	45PY72
1 7/8 in	Gates	1NJK4
1 15/16 in	Gates	1NJJ6
1 15/16 in	Tritan	45PY74
2 in	Gates	1NJK6
2 in	Tritan	45PZ01
2 1/8 in	Gates	1NJL1
2 3/16 in	Tritan	45PY92
2 1/4 in	Gates	1NJK9
2 1/4 in	Tritan	45PY87
2 3/8 in	Tritan	45PY94
2 7/16 in	Gates	1NJN1
2 1/2 in	Tritan	45PY86
2 11/16 in	Gates	1NJL2
2 15/16 in	Gates	1NJL4
2 15/16 in	Tritan	45PY91
3 in	Gates	1NJN3
3030		
2 1/4 in	Tritan	45PZ22
2 3/4 in	Tritan	45PZ28

PowerDrive

Split-Taper Bushings

- Taper: 3/4" per ft.

Solid flange and an external key on the bushing provides positive drive, except series G. For use with sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. Include cap screws.

B Series

Bushing Series/ Bore Dia.	Item No.
B	
1/2 in	6PTT4
5/8 in	6PTU3
3/4 in	6PTU2
13/16 in	6PTT5
7/8 in	6PTU4
15/16 in	6PTT6
1 in	6PTP9
1 1/16 in	6PTR0
1 1/8 in	6PTR3
1 3/16 in	6PTR6
1 1/4 in	6PTR2
1 5/16 in	6PTR9
1 3/8 in	6PTR8
1 7/16 in	6PTT1
1 1/2 in	6PTR1
1 9/16 in	6PTT3
1 5/8 in	6PTT0
1 11/16 in	6PTR4
1 3/4 in	6PTR7
1 7/8 in	6PTT2
1 15/16 in	6PTR5
2 in	6PTT7
2 1/8 in	6PTT9
2 3/16 in	6PTU0
2 1/4 in	6PTT8
2 3/8 in	6PTU1

Bushing Series/ Bore Dia.	Item No.
G	
3/8 in	6PTU9
1/2 in	6PTU6
5/8 in	6PTV0
3/4 in	6PTU8
7/8 in	6PTV1
15/16 in	6PTU7
1 in	6PTU5
P1	
5/8 in	6PTV9
3/4 in	6PTV8
7/8 in	6PTW0
1 in	6PTV2
1 1/8 in	6PTW1
1 3/16 in	6PTV5
1 1/4 in	6PTV4
1 3/8 in	6PTW2
1 7/16 in	6PTV7
1 1/2 in	6PTV3
1 5/8 in	6PTV6
P2	
1 1/8 in	6PTW3
1 3/8 in	6PTW4

Bushing Series/ Bore Dia.	Item No.
Q1	
3/4 in	6PTX4
7/8 in	6PTX5
1 in	6PTW5
1 1/8 in	6PTX6
1 3/16 in	6PTX8
1 1/4 in	6PTW7
1 3/8 in	6PTX9
1 7/16 in	6PTY1
1 1/2 in	6PTW6
1 9/16 in	6PTX1
1 5/8 in	6PTY0
1 11/16 in	6PTX7
1 3/4 in	6PTW9
1 7/8 in	6PTX0
1 15/16 in	6PTW8
2 1/8 in	6PTX2
2 3/8 in	6PTX3

Standard
2YDW8

Heavy
1YGT2

Conveyor
2YDY3

Roller Chain and Individual Links

Dayton TSUBAKI

Hardened carbon steel construction. Fully interchangeable with other ANSI roller chains. Factory preloading, lube-grooved bushings, and prelubrication minimize wear elongation. 1 connecting link included for every 10 ft. of chain. Meets or exceeds all ANSI requirements.

Additional sizes and styles of roller chain are available on Grainger.com.

Lube-Free Lambda—Oil-impregnated bushings, coated pins, and solid rollers. Maximum allowable load is the same as standard roller chain.

British Standard—Conforms to ISO 606, DIN 8187, and BS 2280 dimensions.

Heavy—Chain features thicker side plates for increased working load and fatigue resistance.

Conveyor—Designed specifically for transport applications such as material handling, packaging, road building machinery, commercial bakeries, bottlers, and farm equipment.

Connecting, Offset, and Roller Links—
Connecting links join 2 ends of chain together. Sizes 25 to 60 assemble with spring clips. Size 80 and higher, as well as Heavy and Curved connecting links, assemble with cotter pins.

Offset links are used for strands when an odd number of chain links is required.

Roller links serve as replacements for damaged roller links.

ANSI Chain Size	Pitch	Roller Bushing Width	Roller Dia.	Overall Width	Max. Allowable Load	Tensile Strength	L	CHAIN Item No.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.	ROLLER LINKS Item No.	ROLLER LINKS Pkg. Qty.
Standard Riveted, 1 Strand														
Dayton														
35	⅜ in	0.188 in	0.2 in	0.514"	480 lb	1,760 lb	10 ft	**2YDW4**	**2YEA5**	5	**2YEA6**	5	**2YEA7**	5
35	⅜ in	0.188 in	0.2 in	0.514"	480 lb	1,760 lb	100 ft	**2YDX5**	**2YEA5**	5	**2YEA6**	5	**2YEA7**	5
40	½ in	0.312 in	0.312 in	0.695"	810 lb	3,125 lb	10 ft	**2YDW5**	**2YEA8**	5	**2YEA9**	5	**2YEC1**	5
40	½ in	0.312 in	0.312 in	0.695"	810 lb	3,125 lb	100 ft	**2YDX6**	**2YEA8**	5	**2YEA9**	5	**2YEC1**	5
41	½ in	0.25 in	0.306 in	0.587"	470 lb	1,500 lb	10 ft	**2YDW6**	**2YEC2**	5	**2YEC3**	5	**2YEC4**	5
41	½ in	0.25 in	0.306 in	0.587"	470 lb	1,500 lb	100 ft	**2YDX7**	**2YEC2**	5	**2YEC3**	5	**2YEC4**	5
50	⅝ in	0.375 in	0.4 in	0.851"	1,430 lb	4,880 lb	10 ft	**2YDW7**	**2YEC5**	5	**2YEC6**	5	**2YEC7**	5
50	⅝ in	0.375 in	0.4 in	0.851"	1,430 lb	4,880 lb	100 ft	**2YDX8**	**2YEC5**	5	**2YEC6**	5	**2YEC7**	5
60	¾ in	0.5 in	0.469 in	1.049"	1,980 lb	7,030 lb	10 ft	**2YDW8**	**2YEC8**	5	**2YEC9**	5	**2YED1**	5
60	¾ in	0.5 in	0.469 in	1.049"	1,980 lb	7,030 lb	100 ft	**2YDX9**	**2YEC8**	5	**2YEC9**	5	**2YED1**	5
80	1 in	0.625 in	0.625 in	0.386"	3,300 lb	12,500 lb	10 ft	**2YDW9**	**2YED2**	1	**2YED3**	1	**2YED4**	1
100	1 ¼ in	0.75 in	0.75 in	1.704"	5,070 lb	19,531 lb	10 ft	**2YDX1**	**2YED5**	1	**2YED6**	1	**2YED7**	1
120	1 ½ in	1 in	0.875 in	2.122"	6,790 lb	28,125 lb	10 ft	**2YDX2**	**2YED8**	1	**2YEE2**	1	**2YEE5**	1
140	1 ¾ in	1 in	1 in	2.269"	8,900 lb	38,280 lb	10 ft	**2YDX3**	**2YED9**	1	**2YEE3**	1	**2YEE6**	1
160	2 in	1.25 in	1.125 in	2.691"	11,880 lb	50,000 lb	10 ft	**2YDX4**	**2YEE1**	1	**2YEE4**	1	**2YEE7**	1
Tsubaki														
35	⅜ in	0.188 in	0.2 in	0.500"	480 lb	2,530 lb	10 ft	**2W092**	**5X290**	5	**5X291**	5	**5X292**	5
35	⅜ in	0.188 in	0.2 in	0.500"	480 lb	2,530 lb	100 ft	**2W192**	**5X290**	5	**5X291**	5	**5X292**	5
40	½ in	0.312 in	0.312 in	0.717"	810 lb	4,290 lb	10 ft	**2W093**	**5X293**	5	**5X294**	5	**5X295**	5
40	½ in	0.312 in	0.312 in	0.717"	810 lb	4,290 lb	100 ft	**2W193**	**5X293**	5	**5X294**	5	**5X295**	5
41	½ in	0.25 in	0.306 in	0.579"	500 lb	2,640 lb	10 ft	**2W094**	**5X296**	5	**5X297**	5	**5X298**	5
41	½ in	0.25 in	0.306 in	0.579"	500 lb	2,640 lb	100 ft	**2W194**	**5X296**	5	**5X297**	5	**5X298**	5
50	⅝ in	0.375 in	0.4 in	0.878"	1,430 lb	7,050 lb	10 ft	**2W095**	**5X299**	5	**5X300**	5	**5X301**	5
50	⅝ in	0.375 in	0.4 in	0.878"	1,430 lb	7,050 lb	100 ft	**2W195**	**5X299**	5	**5X300**	5	**5X301**	5
60	¾ in	0.5 in	0.469 in	1.087"	1,980 lb	9,920 lb	10 ft	**2W096**	**5X302**	5	**5X303**	5	**5X304**	5
60	¾ in	0.5 in	0.469 in	1.087"	1,980 lb	9,920 lb	100 ft	**3W098**	**5X302**	5	**5X303**	5	**5X304**	5
80	1 in	0.625 in	0.625 in	1.398"	3,300 lb	17,640 lb	10 ft	**2W221**	**6X529**	1	**6X530**	1	**6X531**	1
100	1 ¼ in	0.75 in	0.75 in	1.678"	5,070 lb	26,460 lb	10 ft	**2W222**	**6X532**	1	**6X533**	1	**6X534**	1
120	1 ½ in	1 in	0.875 in	2.118"	6,830 lb	37,480 lb	10 ft	**6L481**	**6L490**	1	**6L493**	1	**6L496**	1
140	1 ¾ in	1 in	1 in	2.307"	9,040 lb	48,510 lb	10 ft	**6L482**	**6L491**	1	**6L494**	1	**6L497**	1
160	2 in	1.25 in	1.125 in	2.705"	11,900 lb	60,630 lb	10 ft	**6L483**	**6L492**	1	**6L495**	1	**6L498**	1
Standard Riveted, 2 Strand														
Dayton														
35-2	⅜ in	0.188 in	0.2 in	0.898"	805 lb	3,520 lb	10 ft	**2YDY5**	**2YEE8**	5	**2YEF5**	5	—	—
40-2	½ in	0.312 in	0.312 in	1.247"	1,360 lb	6,250 lb	10 ft	**2YDY6**	**2YEE9**	5	**2YEF6**	5	—	—
50-2	⅝ in	0.375 in	0.4 in	1.571"	2,360 lb	9,770 lb	10 ft	**2YDY7**	**2YEF1**	5	**2YEF7**	5	—	—
60-2	¾ in	0.5 in	0.469 in	1.961"	3,300 lb	14,060 lb	10 ft	**2YDY8**	**2YEF2**	5	**2YEF8**	5	—	—
80-2	1 in	0.625 in	0.625 in	2.543"	5,600 lb	25,000 lb	10 ft	**2YDY9**	**2YEF3**	1	**2YEF9**	1	—	—
100-2	1 ¼ in	0.75 in	0.75 in	3.075"	8,570 lb	39,062 lb	10 ft	**2YDZ1**	**2YEF4**	1	**2YEG1**	1	—	—
Tsubaki														
35-2	⅜ in	0.188 in	0.2 in	0.898"	810 lb	5,060 lb	10 ft	**6L484**	**6L499**	5	**6L505**	5	—	—
40-2	½ in	0.312 in	0.312 in	1.283"	1,370 lb	8,580 lb	10 ft	**6L485**	**6L500**	5	**6L506**	5	—	—
50-2	⅝ in	0.375 in	0.4 in	1.595"	2,430 lb	14,100 lb	10 ft	**6L486**	**6L501**	5	**6L507**	5	—	—
60-2	¾ in	0.5 in	0.469 in	1.988"	3,360 lb	19,840 lb	10 ft	**6L487**	**6L502**	5	**6L508**	5	—	—
80-2	1 in	0.625 in	0.625 in	2.552"	5,610 lb	35,280 lb	10 ft	**6L488**	**6L503**	1	**6L509**	1	—	—
100-2	1 ¼ in	0.75 in	0.75 in	3.090"	8,610 lb	52,920 lb	10 ft	**6L489**	**6L504**	1	**6L510**	1	—	—
Lube-Free Lambda														
Tsubaki														
40	½ in	0.297 in	0.312 in	0.755"	816 lb	4,300 lb	10 ft	**1YGP9**	**1YJK8**	5	**1YJK9**	5	—	—
50	⅝ in	0.365 in	0.4 in	0.913"	1,430 lb	7,050 lb	10 ft	**1YGR4**	**1YJX4**	5	**1YJX5**	5	—	—
British Standard														
Tsubaki														
06B	⅜ in	0.225 in	0.25 in	0.551"	—	2,310 lb	10 ft	**1YGZ8** *	**1YGN3**	5	**1YGN4**	5	—	—
08B	½ in	0.305 in	0.335 in	0.724"	—	4,410 lb	10 ft	**1YGZ9**	**1YGN5**	5	—	—	—	—
10B	⅝ in	0.38 in	0.4 in	0.819"	—	5,840 lb	10 ft	**1YHA1**	**1YGN7**	5	**1YGN8**	5	—	—
12B	¾ in	0.46 in	0.475 in	0.953"	—	7,500 lb	10 ft	**1YHA2**	**1YGN9**	5	**1YGP1**	5	—	—
Heavy Riveted														
Tsubaki														
60H	¾ in	0.5 in	0.469 in	1.252"	2,200 lb	9,920 lb	10 ft	**1YGT2**	**1YKK8**	5	**1YKK9**	5	**1YKL1**	5
80H	1 in	0.625 in	0.625 in	1.543"	3,630 lb	17,640 lb	10 ft	**1YGT7**	**1YKV8**	1	**1YKV9**	1	**1YKW1**	1
Conveyor														
Dayton														
C2040	1 in	0.312 in	0.312 in	0.697"	534 lb	3,125 lb	10 ft	**2YDY1**	**2YEG2**	1	**2YEG6**	1	**2YEH1**	1
C2050	1 ¼ in	0.375 in	0.4 in	0.856"	721 lb	4,880 lb	10 ft	**2YDY2**	**2YEG3**	1	**2YEG7**	1	**2YEH2**	1
C2060H	1 ½ in	0.5 in	0.469 in	1.248"	1,032 lb	7,227 lb	10 ft	**2YDY3**	**2YEG4**	1	**2YEG8**	1	**2YEH3**	1
C2080H	2 in	0.625 in	0.625 in	1.512"	1,610 lb	12,886 lb	10 ft	**2YDY4**	**2YEG5**	1	**2YEG9**	1	**2YEH4**	1
Tsubaki														
C2040	1 in	0.312 in	0.312 in	0.717"	595 lb	3,750 lb	10 ft	**6L511**	**6L515**	1	**6L519**	1	**6L523**	1
C2050	1 ¼ in	0.375 in	0.4 in	0.878"	970 lb	6,170 lb	10 ft	**6L512**	**6L516**	1	**6L520**	1	**6L524**	1
C2060H	1 ½ in	0.5 in	0.469 in	1.225"	1,410 lb	9,040 lb	10 ft	**6L513**	**6L517**	1	**6L521**	1	**6L525**	1
C2080H	2 in	0.625 in	0.625 in	1.543"	2,400 lb	15,400 lb	10 ft	**6L514**	**6L518**	1	**6L522**	1	**6L526**	1

***** 06B chain has conveyor-style flat side bar.*

Corrosion-Resistant Roller Chain and Individual Links

Each 10-ft. length includes 1 connecting link.

Neptune—Resists corrosion in difficult environments including seawater spray. Chromium-free topcoat protects chain from impact and provides superior rust resistance. Zinc-and-aluminum undercoating ensures maximum corrosion resistance with the same strength as standard ANSI chain.

Nickel-Plated—Useful for decorative applications or in moderately corrosive environments and outdoor conditions. Not suggested for direct food contact.

304 Stainless Steel—Excellent for corrosive conditions involving food, saltwater, chemicals, and pharmaceuticals.

1YGP6

1YJH1

1YJH2

ANSI Chain Size	Pitch	Roller Bushing Width	Roller Dia.	Overall Width	Max. Allowable Load	Tensile Strength	L	CHAIN Item No.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.
Neptune												
Tsubaki												
35NT	⅜"	0.188 in	0.200"	0.500"	480 lb	2530 lb.	10 ft.	**1YGP6**	**1YJH1**	5	**1YJH2**	5
40NT	½"	0.312 in	0.312"	0.717"	810 lb	4290 lb.	10 ft.	**1YGR2**	**1YJP2**	5	**1YJP3**	5
50NT	⅝"	0.375 in	0.400"	0.878"	1,430 lb	7050 lb.	10 ft.	**1YGR6**	**1YJZ6**	5	**1YJZ7**	5
60NT	¾"	0.5 in	0.200"	1.087"	1,980 lb	9920 lb.	10 ft.	**1YGT1**	**1YKG6**	5	**1YKG7**	5
Nickel-Plated												
Dayton												
40NP	½"	0.312 in	0.851"	0.695"	648 lb	3700 lb.	10 ft.	**2YDZ2**	**2YDZ8**	5	**2YEA2**	5
50NP	⅝"	0.375 in	0.400"	0.851"	1,144 lb	6100 lb.	10 ft.	**2YDZ3**	**2YDZ9**	5	**2YEA3**	5
60NP	¾"	0.5 in	0.469"	1.049"	1,584 lb	8500 lb.	10 ft.	**2YDZ4**	**2YEA1**	5	**2YEA4**	5
Tsubaki												
40NP	½"	0.312 in	0.312"	0.717"	660 lb	4250 lb.	10 ft.	**6L073**	**6L091**	5	**6L082**	5
50NP	⅝"	0.375 in	0.400"	0.878"	1,140 lb	7050 lb.	10 ft.	**6L074**	**6L092**	5	**6L083**	5
60NP	¾"	0.5 in	0.469"	1.087"	1,630 lb	9900 lb.	10 ft.	**6L075**	**6L093**	5	**6L084**	5
304 Stainless Steel												
Dayton												
40SS	½"	0.312 in	0.851"	0.695"	100 lb	2750 lb.	10 ft.	**2YDZ5**	—	—	—	—
50SS	⅝"	0.375 in	0.851"	0.851"	152 lb	4950 lb.	10 ft.	**2YDZ6**	—	—	—	—
60SS	¾"	0.5 in	0.469"	1.049"	230 lb	6050 lb.	10 ft.	**2YDZ7**	—	—	—	—
Tsubaki												
25SS	¼"	0.125 in	0.130"	0.339"	26 lb	—	10 ft.	**1YGP4**	**1YJF9**	5	**1YJG1**	5
35SS	⅜"	0.188 in	0.200"	0.500"	60 lb	—	10 ft.	**1YGP7**	**1YJJ9**	5	**1YJK1**	5
40SS	½"	0.312 in	0.312"	0.717"	100 lb	—	10 ft.	**6L076**	**6L094**	5	**6L085**	5
50SS	⅝"	0.375 in	0.400"	0.878"	154 lb	—	10 ft.	**6L077**	**6L095**	5	**6L086**	5
60SS	¾"	0.5 in	0.469"	1.087"	231 lb	—	10 ft.	**6L078**	**6L096**	5	**6L087**	5
80SSRB	1"	0.625 in	0.625"	1.398"	397 lb	—	10 ft.	**1YGT9**	**1YKW9**	1	**1YKX1**	1

A-1

D-1

D-3

K-1

SA-1

SK-1

WA-1

WK-1

Chain Attachment Links

- Carbon steel links

Fixtures can be mounted to attachments for smoother transfer. Sold in pkg. of 5, except single-pitch size 80. Spring clips standard on sizes 35 to 60. Cotter pins standard on sizes 80. Additional styles and sizes are available on Grainger.com.

ANSI Chain Size	A-1 Item No.	D-1 Item No.	D-3 Item No.	K-1 Item No.	SA-1 Item No.	SK-1 Item No.	WA-1 Item No.	WK-1 Item No.
35	**1YJG3**	**1YJG6**	**1YJG7**	**1YJG9**	**1YJH4**	**1YJH6**	**1YJH7**	—
40	**1YJK3**	**1YJK6**	**1YJK7**	**1YJL4**	**1YJP6**	**1YJP8**	**1YJR1**	**1YJR2**
41	**1YJV9**	—	—	**1YJW2**	**1YJW4**	**1YJW6**	—	—
50	**1YJW8**	**1YJX2**	**1YJX3**	**1YJX9**	**1YKA3**	**1YKA5**	**1YKA6**	**1YKA7**
60	**1YKD8**	**1YKE3**	**1YKE4**	**1YKE9**	**1YKH2**	**1YKH4**	**1YKH5**	**1YKH6**
80	**1YKN7**	**1YKP2**	**1YKP3**	**1YKP6**	**1YKT4**	**1YKT6**	**1YKT8**	**1YKT9**

Roller Chain Tools

Chain Detachers allow you to disassemble the roller chain to add or remove links to the length of chain. **Chain Pullers** can pull the open ends of the roller chain close enough together to ease the insertion of connecting links.

ANSI Size	Brand	Mfr. Model	Item No.
Chain Detacher			
25-60	Tsubaki	D-35	**1A911**
25-60	Fenner Drives	5810100	**38ZD44**
35-50	Dayton	2YEH5	**2YEH5**
60-100	Dayton	2YEH6	**2YEH6**
60-100	Tsubaki	D-60	**1A912**
60-100	Fenner Drives	5810200	**38ZD45**
Chain Puller			
25-35	Fenner Drives	5800250	**54XX39**
35-60	Fenner Drives	5800350	**5TZL3**
40-80	Fenner Drives	5800500	**33Z791**
80-240	Fenner Drives	5800800	**5TZL4**

Chain Detacher
1A911

Chain Puller
5TZL3

ANSI 40
1L104

ANSI 41
6L889

TSUBAKI

Single-Strand Fixed-Bore Sprockets

ANSI standard sprockets for use with standard roller chain. Constructed of high-carbon and heat-treated steel alloy. Standard keyway (see page 119 for more info.) and 2 setscrews included. Setscrews are directly over keyway and 90° from keyway, unless noted. The 3/8" and 1/2" bore sizes have no keyway. Additional sprockets available on Grainger.com.

O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	BORE DIA. 3/8" Item No.	1/2" Item No.	5/8" Item No.	3/4" Item No.	1" Item No.
ANSI Sprocket No. 35								
1.260"	1.097"	9	35B9F	6L774	—	—	—	—
1.380"	1.214"	10	35B10F	6L775	6L776	6L777 *	—	—
1.500"	1.331"	11	35B11F	6L778	6L779	6L780	6L781 *	—
1.630"	1.449"	12	35B12F	—	6L782	6L783	6L784	—
1.750"	1.567"	13	35B13F	—	6L785	6L786	6L787	—
1.870"	1.685"	14	35B14F	—	6L788	6L789	6L790	—
1.990"	1.804"	15	35B15F	—	6L791	6L792	6L793	6L794 *
2.110"	1.922"	16	35B16F	—	6L795	6L796	6L797	6L798 *
2.230"	2.041"	17	35B17F	—	6L799	6L800	6L801	6L802
2.350"	2.160"	18	35B18F	—	6L803	6L804	6L805	6L806
2.470"	2.279"	19	35B19F	—	6L807	6L808	6L809	6L810
2.590"	2.397"	20	35B20F	—	6L811	6L812	6L813	6L814
2.830"	2.635"	22	35B22F	—	—	—	6L821	—
3.070"	2.873"	24	35B24F	—	6L827	6L828	6L829	6L830
3.190"	2.992"	25	35B25F	—	6L831	6L832	6L833	6L834

** Setscrew located 90° and 180° from keyway.*

O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	BORE DIA. 1/2" Item No.	5/8" Item No.	3/4" Item No.	7/8" Item No.	1" Item No.	1-1/8" Item No.	1-3/16" Item No.	1-1/4" Item No.	1-7/16" Item No.	1-1/2" Item No.
ANSI Sprocket No. 40													
1.674"	1.462"	9	40B09F	6L835	6L836	—	—	—	—	—	—	—	—
1.839"	1.618"	10	40B10F	1L104	1L105	1L106	—	—	—	—	—	—	—
2.000"	1.775"	11	40B11F	6L837	6L838	6L839	6L840	—	—	—	—	—	—
2.170"	1.932"	12	40B12F	1L108	1L109	1L110	1L111	1L112	—	—	—	—	—
2.330"	2.089"	13	40B13F	6L841	1L113	1L114	1L115	1L116	—	—	—	—	—
2.490"	2.247"	14	40B14F	1L117	1L118	1L119	1L120	1L121	—	—	—	—	—
2.650"	2.405"	15	40B15F	6L842	1L122	1L123	1L124	1L125	20UF10	20UF11 *	6L843 *	—	—
2.810"	2.563"	16	40B16F	—	1L126	1L127	1L128	1L129	20UF12	20UF13	6L844	—	—
2.980"	2.721"	17	40B17F	—	1L130	1L131	1L132	1L133	20UF14	20UF15	6L845	—	—
3.140"	2.879"	18	40B18F	—	1L134	1L135	1L136	1L137	20UF16	20UF17	6L846	—	—
3.300"	3.038"	19	40B19F	—	6L847	1L138	6L848	1L139	20UF19	20UF20	6L849	20UF21	20UF22
3.460"	3.196"	20	40B20F	—	6L850	1L140	1L141	1L142	20UF23	20UF24	6L851	20UF25	20UF26
3.620"	3.355"	21	40B21F	—	20UF30	6L853	20UF31	6L855	20UF27	—	20UF28	20UF29	—
3.780"	3.513"	22	40B22F	—	20UF35	6L858	20UF36	6L860	20UF32	—	20UF33	20UF34	—
3.940"	3.672"	23	40B23F	—	20UF40	6L863	20UF41	6L865	20UF37	—	20UF38	20UF39	—
4.100"	3.831"	24	40B24F	—	—	1L143	20UF42	1L144	—	—	—	—	—
4.260"	3.989"	25	40B25F	—	—	6L871	—	6L873	—	—	—	—	—
4.420"	4.148"	26	40B26F	—	—	6L876	—	6L878	—	—	—	—	—
4.740"	4.465"	28	40B28F	—	6L880	6L881	—	6L883	—	—	—	—	—
5.060"	4.783"	30	40B30F	—	6L885	6L886	—	1L145	—	—	—	—	—
5.860"	5.578"	35	40B35F	—	—	—	—	1L146	—	—	—	—	—

** Setscrew located 90° and 180° from keyway.*

O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	BORE DIA. 1/2 Item No.	5/8 Item No.	3/4 Item No.	1 Item No.
ANSI Sprocket No. 41							
1.670"	1.462"	9	41B9F	6L889	6L890	—	—
1.840"	1.618"	10	41B10F	6L891	6L892	6L893	—
2.000"	1.775"	11	41B11F	—	—	6L896	—
2.170"	1.932"	12	41B12F	—	6L898	6L899	—
2.330"	2.089"	13	41B13F	—	—	—	6L903
2.490"	2.247"	14	41B14F	—	—	—	6L907
2.650"	2.405"	15	41B15F	6L908	—	6L910	—
2.810"	2.563"	16	41B16F	—	—	6L913	—
3.140"	2.879"	18	41B18F	—	6L918	—	6L920
3.460"	3.196"	20	41B20F	—	6L924	6L925	6L926

O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	BORE DIA. 5/8" Item No.	3/4" Item No.	7/8" Item No.	1" Item No.	1-1/8" Item No.	1-3/16" Item No.	1-1/4" Item No.	1-7/16" Item No.	1-1/2" Item No.	1-5/8" Item No.
ANSI Sprocket No. 50													
2.090"	1.828"	9	50B09F	—	6L927	—	—	—	—	—	—	—	—
2.300"	2.023"	10	50B10F	—	1L147	6L928	6L929 *	—	—	—	—	—	—
2.500"	2.219"	11	50B11F	20UF44	1L148	20UF45	6L931	—	—	—	—	—	—
2.710"	2.415"	12	50B12F	20UF48	1L149	6L932	1L150	1L151	6L933	6L934	—	—	—
2.910"	2.612"	13	50B13F	20UF51	1L152	20UF52	1L153	20UF50	6L936	6L937	—	—	—
3.110"	2.809"	14	50B14F	20UF56	1L155	20UF57	1L156	20UF54	20UF55	1L230	—	—	—
3.320"	3.006"	15	50B15F	20UF61	1L157	6L941	1L158	1L159	6L942	1L160	20UF60	—	—
3.520"	3.204"	16	50B16F	20UF67	1L161	6L943	1L162	1L163	20UF64	1L164	20UF65	20UF66	—
3.720"	3.401"	17	50B17F	—	20UF74	20UF75	1L166	20UF69	20UF70	1L168	20UF71	20UF72	20UF73
3.920"	3.599"	18	50B18F	—	6L947	20UF80	6L949	20UF76	20UF77	6L952	20UF78	20UF79	—
4.120"	3.798"	19	50B19F	—	—	20UF86	6L955	20UF82	20UF83	—	20UF84	20UF85	—
4.320"	3.995"	20	50B20F	—	1L169	20UF93	1L170	20UF88	20UF89	6L962	20UF91	20UF92	—
4.520"	4.194"	21	50B21F	—	—	—	6L965	—	—	—	—	—	—
4.720"	4.392"	22	50B22F	—	—	—	6L971	—	—	—	—	—	—
4.920"	4.590"	23	50B23F	—	—	—	—	—	—	6L980	—	—	—
5.120"	4.788"	24	50B24F	—	—	—	1L171	—	—	6L985	—	—	—
5.520"	5.185"	26	50B26F	—	—	—	6L994	—	—	—	—	—	—
6.320"	5.979"	30	50B30F	—	—	—	6G019	—	6G021	6G022	—	—	—

** Setscrew located 90° and 180° from keyway.*

O.D.	Pitch Dia.	No. of Teeth	Mfr. Model	BORE DIA. 3/4" Item No.	7/8" Item No.	1" Item No.	1-1/8" Item No.	1-3/16" Item No.	1-1/4" Item No.	1-3/8" Item No.	1-7/16" Item No.	1-1/2" Item No.	1-5/8" Item No.	1-3/4" Item No.	1-15/16" Item No.
ANSI Sprocket No. 60															
2.510"	2.193"	9	60B09F	20UG50	—	6G023	—	—	—	—	—	—	—	—	—
2.760"	2.427"	10	60B10F	1L172	20UF94	6G024	—	—	—	—	—	—	—	—	—
3.000"	2.663"	11	60B11F	20UF95	—	1L173	1L174	—	1L175 *	—	—	—	—	—	—
3.250"	2.898"	12	60B12F	20UF98	20UF99	1L176	20UF96	20UF97	1L177 *	—	—	—	—	—	—
3.490"	3.134"	13	60B13F	—	—	1L178	20UG01	20UG02	1L180	—	20UG03 *	6G028 *	—	—	—
3.740"	3.371"	14	60B14F	—	—	1L181	20UG04	20UG05	1L182	—	20UG06 *	6G032 *	—	—	—
3.980"	3.608"	15	60B15F	20UG12	20UG13	1L183	20UG07	20UG08	1L185	—	—	20UG09	20UG11	20UG10 *	—
4.220"	3.845"	16	60B16F	20UG20	20UG21	1L186	20UG14	20UG15	20UG16	—	20UG17	20UG18	20UG19	—	—
4.460"	4.082"	17	60B17F	—	—	20UG22	20UG23	20UG24	20UG25	20UG26	20UG27	20UG28	20UG29	—	—
4.700"	4.319"	18	60B18F	—	—	1L189	20UG31	20UG32	20UG33	—	20UG34	20UG35	20UG36	—	20UG30
4.950"	4.557"	19	60B19F	—	—	—	20UG37	20UG38	20UG39	20UG40	20UG41	20UG42	20UG43	—	20UG44
5.190"	4.794"	20	60B20F	—	—	—	20UG45	20UG46	20UG47	20UG48	20UG49	6G057	—	—	—
5.910"	5.508"	23	60B23F	—	—	6G070	—	—	6G072	—	—	—	—	—	—
6.150"	5.746"	24	60B24F	—	—	6G076	—	—	6G078	—	—	6G081	—	—	—

** Setscrew located 90° and 180° from keyway.*

TSUBAKI

Single-Strand Bushed-Bore Sprockets

- Bushing required, see page 115 or Grainger.com

ANSI standard sprockets for use with standard roller chain.
Constructed of hardened high-carbon, heat-treated steel alloy.

Quick Detachable 5XXW9

Taper-Lock 5XXN1

Split Taper 5PTW5

OD.	Pitch Dia.	No. of Teeth	QUICK DETACHABLE Bushing Req.	QUICK DETACHABLE Mfr. Model	QUICK DETACHABLE Item No.	TAPER-LOCK Bushing Req.	TAPER-LOCK Mfr. Model	TAPER-LOCK Item No.	SPLIT TAPER Bushing Req.	SPLIT TAPER Mfr. Model	SPLIT TAPER Item No.
ANSI Sprocket No. 40											
2.49 in	2.247 in	14	—	—	—	1008	40BTL14	**5XXN1** *	—	—	—
2.65 in	2.405 in	15	JA	40JA15	**5XXW9** *	1008	40BTL15	**5XXN2**	H or QT	40H15	**5PTZ7**
2.81 in	2.563 in	16	JA	40JA16	**5XXY0** *	1008	40BTL16	**5XXN3**	H or QT	40H16	**5PTZ8**
2.98 in	2.721 in	17	JA	40JA17	**5XXY1** *	1210	40BTL17	**5XXN4** *	H or QT	40H17	**5PTZ9** *
3.14 in	2.879 in	18	JA	40JA18	**5XXY2** *	1210	40BTL18	**5XXN5** *	H or QT	40H18	**5PTW5** *
3.3 in	3.038 in	19	JA	40JA19	**5XXY3** *	1210	40BTL19	**5XXN6**	H or QT	40H19	**5PTW6**
3.46 in	3.196 in	20	SH	40SH20	**5XXY4** *	1610	40BTL20	**5XXN7** *	H or QT	40H20	**5PTW7** *
3.62 in	3.355 in	21	SH	40SH21	**5XXY5** *	1610	40BTL21	**5XXN8**	P1	40P21	**5PVA0**
3.78 in	3.513 in	22	SH	40SH22	**5XXY6**	1610	40BTL22	**5XXN9**	H or QT	40H22	**5PVA1**
3.94 in	3.672 in	23	SH	40SH23	**5XXY7**	1610	40BTL23	**5XXP0**	P1	40P23	**5PVA2**
4.1 in	3.831 in	24	SH	40SH24	**5XXY8**	1610	40BTL24	**5XXP1**	H or QT	40H24	**5PTW8**
4.26 in	3.989 in	25	SH	40SH25	**5XXY9**	1610	40BTL25	**5XXP2**	—	—	—
4.42 in	4.148 in	26	SH	40SH26	**5XXZ0**	1610	40BTL26	**5XXP3**	—	—	—
4.74 in	4.465 in	28	SH	40SH28	**5XXZ1**	1610	40BTL28	**5XXP4**	H or QT	40H28	**5PVA3**
5.06 in	4.783 in	30	SH	40SH30	**5XXZ2**	1610	40BTL30	**5XXP5**	P1	40P30	**5PTW9**
5.38 in	5.101 in	32	SH	40SH32	**5XXZ3**	1610	40BTL32	**5XXP6**	P1	40P32	**5PVA4**
5.86 in	5.578 in	35	SH	40SH35	**5XXZ4**	1610	40BTL35	**5XXP7**	P1	40P35	**5PVA5**
6.02 in	5.737 in	36	SDS	40SDS36	**5XXZ5**	1610	40BTL36	**5XXP8**	P1	40P36	**5PTX0**
6.66 in	6.373 in	40	SDS	40SDS40	**5XXZ6**	1610	40BTL40	**5XXP9**	P1	40P40	**5PTX1**
6.97 in	6.691 in	42	SDS	40SDS42	**20UE85**	1610	40BTL42	**20UE88**	P1	40P42	**5PVA6**
7.45 in	7.168 in	45	SDS	40SDS45	**5XXZ7**	1610	40BTL45	**5XXR0**	P1	40P45	**5PTX2**
7.93 in	7.645 in	48	SDS	40SDS48	**5XXZ8**	1610	40BTL48	**5XXR1**	P1	40P48	**5PTX3**
8.89 in	8.599 in	54	SDS	40SDS54	**20UE86**	1610	40BTL54	**20UE89**	P1	40P54	**5PVA7**
9.84 in	9.554 in	60	SDS	40SDS60	**5XXZ9**	1610	40BTL60	**5XXR2**	Q1	40Q60	**5PTX4**
11.43 in	11.145 in	70	SK	40SK70	**20UE87**	2012	40BTL70	**20UE90**	Q1	40Q70	**5PTX5**
ANSI Sprocket No. 50											
2.71 in	2.415 in	12	JA	50JA12	**5XYA0**	1008	50BTL12	**5XXR3** *	—	—	—
2.91 in	2.612 in	13	JA	50JA13	**5XYA1**	1008	50BTL13	**5XXR4**	H or QT	50H13	**20UE99**
3.11 in	2.809 in	14	JA	50JA14	**5XYA2**	1008	50BTL14	**5XXR5**	H or QT	50H14	**20UF01**
3.32 in	3.006 in	15	JA	50JA15	**5XYA3**	1210	50BTL15	**5XXR6** *	P1	50P15	**5PVA8**
3.52 in	3.204 in	16	JA	50JA16	**5XYA4**	1610	50BTL16	**5XXR7** *	P1	50P16	**5PVA9**
3.72 in	3.401 in	17	SH	50SH17	**5XYA5**	1610	50BTL17	**5XXR8** *	P1	50P17	**5PVC0**
3.92 in	3.599 in	18	SH	50SH18	**5XYA6**	1610	50BTL18	**5XXR9**	H or QT	50H18	**5PTX6**
4.12 in	3.798 in	19	SH	50SH19	**5XYA7**	1610	50BTL19	**5XXT0**	P1	50P19	**5PVC1**
4.32 in	3.995 in	20	SDS	50SDS20	**5XYA8**	1610	50BTL20	**5XXT1**	P1	50P20	**5PTX7**
4.52 in	4.194 in	21	SDS	50SDS21	**5XYA9**	1610	50BTL21	**5XXT2**	P1	50P21	**20UF02**
4.72 in	4.392 in	22	SDS	50SDS22	**5XYC0**	1610	50BTL22	**5XXT3**	P1	50P22	**5PVC2**
4.92 in	4.59 in	23	SDS	50SDS23	**5XYC1**	2012	50BTL23	**5XXT4**	Q1	50Q23	**5PVC3**
5.12 in	4.788 in	24	SDS	50SDS24	**5XYC2**	2012	50BTL24	**5XXT5**	P1	50P24	**5PTX8**
5.32 in	4.987 in	25	SDS	50SDS25	**5XYC3**	2012	50BTL25	**5XXT6**	Q1	50Q25	**5PVC4**
5.52 in	5.185 in	26	SDS	50SDS26	**5XYC4**	2012	50BTL26	**5XXT7**	—	—	—
5.92 in	5.582 in	28	SDS	50SDS28	**5XYC5**	2012	50BTL28	**5XXT8**	P1	50P28	**20UF03**
6.32 in	5.979 in	30	SDS	50SDS30	**5XYC6**	2012	50BTL30	**5XXT9**	Q1	50Q30	**5PVC5**
6.72 in	6.376 in	32	SDS	50SDS32	**5XYC7**	2012	50BTL32	**5XXU0**	Q1	50Q32	**5PVC6**
7.32 in	6.973 in	35	SDS	50SDS35	**5XYC8**	2012	50BTL35	**5XXU1**	—	—	—
7.52 in	7.171 in	36	SDS	50SDS36	**5XYC9**	2012	50BTL36	**5XXU2**	Q1	50Q36	**5PTX9**
8.32 in	7.966 in	40	SDS	50SDS40	**5XYD0**	2012	50BTL40	**5XXU3**	Q1	50Q40	**5PTY0**
8.72 in	8.363 in	42	SDS	50SDS42	**20UE91**	2012	50BTL42	**20UE93**	Q1	50Q42	**5PVC7**
9.31 in	8.96 in	45	SDS	50SDS45	**5XYD1**	2012	50BTL45	**5XXU4**	Q1	50Q45	**5PTY1**
9.91 in	9.556 in	48	SDS	50SDS48	**5XYD2**	2012	50BTL48	**5XXU5**	Q1	50Q48	**5PTY2**
11.11 in	10.749 in	54	SK	50SK54	**20UE92**	2012	50BTL54	**20UE94**	Q1	50Q54	**5PVC8**
12.3 in	11.942 in	60	SK	50SK60	**5XYD3**	2012	50BTL60	**5XXU6**	Q1	50Q60	**5PTY3**
ANSI Sprocket No. 60											
3.25 in	2.898 in	12	JA	60JA12	**5XYD4**	1008	60BTL12	**20UE96**	—	—	—
3.49 in	3.134 in	13	JA	60JA13	**5XYD5**	1210	60BTL13	**20UE97**	P1	60P13	**5PTY4**
3.74 in	3.371 in	14	SH	60SH14	**5XYD6**	1210	60BTL14	**5XXU7**	P1	60P14	**5PTY5**
3.98 in	3.608 in	15	SH	60SH15	**5XYD7**	1610	60BTL15	**5XXU8**	P1	60P15	**5PTY6**
4.22 in	3.845 in	16	SH	60SH16	**5XYD8**	1610	60BTL16	**5XXU9**	P1	60P16	**5PVC9**
4.46 in	4.082 in	17	SDS	60SDS17	**5XYD9**	1610	60BTL17	**5XXV0**	P1	60P17	**5PVD0**
4.7 in	4.319 in	18	SDS	60SDS18	**5XYE0**	1610	60BTL18	**5XXV1**	P1	60P18	**5PTY7**
4.95 in	4.557 in	19	SDS	60SDS19	**5XYE1**	1610	60BTL19	**5XXV2**	P1	60P19	**5PVD1**
5.19 in	4.794 in	20	SDS	60SDS20	**5XYE2**	2012	60BTL20	**5XXV3**	Q1	60Q20	**5PTY8**
5.43 in	5.033 in	21	SDS	60SDS21	**5XYE3**	2012	60BTL21	**5XXV4**	Q1	60Q21	**20UF05**
5.67 in	5.27 in	22	SDS	60SDS22	**5XYE4**	2012	60BTL22	**5XXV5**	Q1	60Q22	**5PTY9**
5.91 in	5.508 in	23	SDS	60SDS23	**5XYE5**	2012	60BTL23	**5XXV6**	Q1	60Q23	**20UF06**
6.15 in	5.746 in	24	SDS	60SDS24	**5XYE6**	2012	60BTL24	**5XXV7**	Q1	60Q24	**5PTZ0**
6.39 in	5.984 in	25	SDS	60SDS25	**5XYE7**	2012	60BTL25	**5XXV8**	Q1	60Q25	**5PTZ1**
6.63 in	6.222 in	26	SK	60SK26	**5XYE8**	2012	60BTL26	**5XXV9**	Q1	60Q26	**20UF07**
6.87 in	6.46 in	27	SK	60SK27	**20UE95**	—	—	—	Q1	60Q27	**5PVD2**
7.11 in	6.698 in	28	SK	60SK28	**5XYE9**	2012	60BTL28	**5XXW0**	Q1	60Q28	**5PVD3**
7.59 in	7.175 in	30	SK	60SK30	**5XYF0**	2012	60BTL30	**5XXW1**	Q1	60Q30	**5PTZ2**
8.07 in	7.652 in	32	SK	60SK32	**5XYF1**	2012	60BTL32	**5XXW2**	Q1	60Q32	**5PVD4**
8.78 in	8.367 in	35	SK	60SK35	**5XYF2**	2012	60BTL35	**5XXW3**	Q1	60Q35	**20UF08**
9.02 in	8.606 in	36	SK	60SK36	**5XYF3**	2012	60BTL36	**5XXW4**	Q1	60Q36	**20UF09**
9.98 in	9.56 in	40	SK	60SK40	**5XYF4**	2012	60BTL40	**5XXW5**	Q1	60Q40	**5PTZ3**
11.18 in	10.752 in	45	SF	60SF45	**5XYF5**	2012	60BTL45	**5XXW6**	Q1	60Q45	**5PTZ4**
11.89 in	11.468 in	48	SF	60SF48	**5XYF6**	2012	60BTL48	**5XXW7**	Q1	60Q48	**5PVD5**
14.76 in	14.33 in	60	SF	60SF60	**5XYF7**	2517	60BTL60	**5XXW8**	Q1	60Q60	**5PTZ5**
17.63 in	17.194 in	72	—	—	—	2517	60BTL72	**20UE98**	Q1	60Q72	**5PTZ6**

** Has recessed groove in hub for chain clearance.*

Standard Keyway and Setscrew Machining Guide

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
5⁄16 - 7⁄16"	3⁄32 x 3⁄64"	#8-32"
½ - 9⁄16"	⅛ x 1⁄16"	#10-24"
⅝ - ⅞"	3⁄16 x 3⁄32"	¼"
15⁄16 - 1 ¼"	¼ x ⅛"	5⁄16"
1 5⁄16 - 1 ⅜"	5⁄16 x 5⁄32"	5⁄16"
1 7⁄16 - 1 ¾"	⅜ x 3⁄16"	⅜"
1 13⁄16 - 2 ¼"	½ x ¼"	½"
2 5⁄16 - 2 ¾"	⅝ x 5⁄16"	⅝"
2 13⁄16 - 3 ¼"	¾ x ⅜"	¾"
3 5⁄16 - 3 ¾"	⅞ x 7⁄16"	¾"
3 13⁄16 - 4 ½"	1 x ½"	¾"
4 9⁄16 - 5 ½"	1 ¼ x ⅝"	¾"
5 9⁄16 - 6 ½"	1 ½ x ¾"	1"
6 9⁄16 - 7 ½"	1 ¾ x ⅞"	1"
7 9⁄16 - 8 15⁄16"	2 x 1"	1"
9 - 10 15⁄16"	2 ½ x 1 ¼"	1"

† Setscrew size may vary depending on hub wall thickness. As a general rule, the hub wall over the keyway should be equal to or greater than the dia. of the setscrew.
Note: Maximum bore guidelines should be adhered to in order to ensure maximum product quality standards.

TSUBAKI

Single-Stranded Plain-Bore Sprockets

5GVF2

- For more sprocket sizes, go to Grainger.com

Type B plain bore ANSI standard sprockets are for use with standard roller chain and have 1-sided hub extension.

Outside Dia.	No. of Teeth	Bore Dia.	Material	Brand	Mfr. Model	Item No.	
ANSI Sprocket No. 35"							
1.130"	8	⅜ in	Carbon Steel	Tsubaki	35B8	**5WDY2**	*
1.630"	12	½ in	Carbon Steel	Tsubaki	35B12	**5WDY6**	*
1.990"	15	½ in	Stainless Steel	Tsubaki	35B15SS	**5GVF2**	
1.990"	15	½ in	Carbon Steel	Tsubaki	35B15	**5WDY9**	
2.352"	18	½ in	Carbon Steel	Tsubaki	35B18	**5WDZ2**	
4.990"	40	½ in	Stainless Steel	Tsubaki	35B40SS	**5GVG8**	
ANSI Sprocket No. 40"							
1.510"	8	½ in	Carbon Steel	Tsubaki	40B8	**5WEA8**	*
1.670"	9	½ in	Carbon Steel	Tsubaki	40B9	**5WEA9**	*
2.330"	13	½ in	Carbon Steel	Tsubaki	40B13	**5WEC3**	
2.810"	16	⅝ in	Carbon Steel	Tsubaki	40B16	**5WEC6**	
2.980"	17	⅝ in	Carbon Steel	Tsubaki	40B17	**5WEC7**	
3.780"	22	⅝ in	Stainless Steel	Tsubaki	40B22SS	**5GVJ2**	
ANSI Sprocket No. 50"							
2.710"	12	⅝ in	Carbon Steel	Tsubaki	50B12	**5XXD0**	*
3.110"	14	⅝ in	Carbon Steel	Tsubaki	50B14	**5XXD2**	
3.720"	17	⅝ in	Carbon Steel	Tsubaki	50B17	**5XXD5**	
3.920"	18	⅝ in	Carbon Steel	Tsubaki	50B18	**5XXD6**	
4.920"	23	¾ in	Carbon Steel	Tsubaki	50B23	**5XXE1**	
ANSI Sprocket No. 60"							
4.460"	17	¾ in	Carbon Steel	Tsubaki	60B17	**5XXG4**	
5.670"	22	¾ in	Stainless Steel	Tsubaki	60B22SS	**5GVP4**	
7.590"	30	1 in	Carbon Steel	Tsubaki	60B30	**5XXH6**	
ANSI Sprocket No. 80"							
5.300"	15	1 in	Carbon Steel	Tsubaki	80B15	**5XXK3**	
5.950"	17	1 in	Carbon Steel	Tsubaki	80B17	**5XXK5**	
6.270"	18	1 in	Carbon Steel	Tsubaki	80B18	**5XXK6**	
7.240"	21	1 in	Carbon Steel	Tsubaki	80B21	**5XXK9**	
7.880"	23	1 in	Carbon Steel	Tsubaki	80B23	**5XXL1**	
8.520"	25	1 in	Carbon Steel	Tsubaki	80B25	**5XXL3**	
8.840"	26	1 ⅜ in	Carbon Steel	Tsubaki	80B26	**5XXL4**	

** Has recessed groove in hub for chain clearance.*

Fenner Drives®

Composite Idler Sprockets

Quiet, lightweight idlers require no lubrication and are corrosion-resistant, with wear-resistant glass-reinforced nylon and insertion-molded ABEC-1 6203-2RS bearing with ½" bore adapter. Compatible with tensioners on page 121; order separately.

ANSI Chain Size	No. of Teeth	Outside Dia.	Bore Dia.	Mfr. Model	Item No.
40	17	2.98"	1¹⁄₁₆ in	CS4002/CB0004	**3ZP37**
50	15	3.40"	1¹⁄₁₆ in	CS5002/CB0004	**3ZP38**
60	13	3.52"	1¹⁄₁₆ in	CS6002/CB0004	**3ZP39**

Single-Stranded Plain-Bore No Hub Sprockets

TRITAN

These plain-bore sprockets have a starting bore, or center hole, that can be machined to the correct size of the shaft. They are steel construction with a black oxide finish for corrosion resistance. Sprockets offer more mounting options and are often used in applications that require customization. For our larger assortment, go to Grainger.com and search for "plain-bore roller chain sprockets".

Chain Number	For Chain Pitch	No. of Teeth	Pitch Diameter	Outside Diameter	Bore Diameter	Maximum Bore Diameter	Item No.
25	¼ in	18	1.44 in	2 in	¼ in	¾ in	**55VX32**
25	¼ in	20	1.598 in	2 in	¼ in	⅞ in	**55VX33**
25	¼ in	60	4.777 in	5 in	½ in	1 ⅜ in	**55VX40**
40	½ in	30	4.783 in	5 in	⅝ in	2 ¼ in	**55VY45**
50	⅝ in	12	2.415 in	3 in	⅝ in	1 ¼ in	**55WA04**
60	¾ in	24	5.746 in	6 in	1 in	2 ¾ in	**55WC32**

6AGN0

6AGN4

PowerDrive

Steel Idler Sprockets

Maintain proper chain tension, guide chain around obstacles and prevent excessive chain wear and vibration. Hardened steel teeth. Special tightener shaft not required on ball bearing sprocket idlers. Required shafts for needle bearing models sold separately on page 121.

ANSI Chain Size	No. of Teeth	Outside Dia. (In.)	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
Ball Bearing Idler Sprockets						
40	17	2³¹⁄₃₂	⅝ in	—	HB40A17X5/8	**6AGN0**
50	15	3⁵⁄₁₆	⅝ in	—	HB50A15X5/8	**6AGN1**
60	13	3½	⅝ in	—	HB60A13X5/8	**6AGN2**
80	12	4⅓	¾ in	—	HB80A12X3/4	**6AGN3**
Needle Bearing Idler Sprockets						
35	13	1¾	½ in	6AGL5	HN35B13	**6AGN4**
40	19	3⁹⁄₃₂	1 in	6AGL6	HN40B19	**6AGN5**
50	17	3²³⁄₃₂	1 in	6AGL6	HN50B17	**6AGN6**
60	17	4¹⁵⁄₃₂	1 in	6AGL6	HN60B17	**6AGN7**
80	13	4²¹⁄₃₂	1 in	6AGL6	HN80B13	**6AGN8**

PowerDrive

V-Belt Idler Pulleys

6AGP4

Prevent belt slippage and position belt away from obstacles. Needle bearings. Required tightener shafts sold separately on page 121.

Belt Type	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
4L, A	2.5 in	½ in	6AGL5	NAK25	**6AGP4**
	3.05 in	½ in	6AGL5	NAK30	**6AGP5**
5L, B	4.96 in	1 in	6AGL6	NBK52	**6AGP8**

PowerDrive

Flat-Face Idler Pulleys

6AGP0

Prevent belt slippage. Can be used with flat belts, gearbelts, or the back side of V-belts. Include needle bearings. For use with drive tighteners and tightener shafts, sold separately on page 121.

Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
1.75 in	½ in	6AGL5	N1D05F	**6AGP0**
4.375 in	1 in	6AGL6	N4D1F	**6AGP2**
	1 in	6AGL7	N4D2F	**6AGP3**

PowerDrive

Timing Belt Idler Pulleys

6AGN9

Position belt away from obstacles. Prevent belt slippage. Include needle bearings. For use with drive tighteners and tightener shafts, sold separately on page 121.

Belt Type	No. of Grooves	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
H	16	2.5 in	1 in	6AGL6	N16H100	**6AGN9**
L	22	2.6 in	1 in	6AGL6	N22L100	**6AGP1**

PowerDrive

Drive Tighteners and Shafts

DRIVE TIGHTENERS

Provide controlled tensioning in drives to eliminate shock loading through excessive chain vibration and horsepower loss through belt slippage.

TIGHTENER SHAFTS

Hardened and ground for maximum life. Use with idlers and drive tighteners. Include set collar and grease fitting.

6AGK9

6AGL5

6AGL9

Description	Tightener Shaft Req.	Use With V-Belt Idler Pulley	Use With Idler Sprocket	Use With Flat Face Idler	Use with Timing Belt Pulley Idler	Mfr. Model	Item No.
Drive Tighteners							
Adjusting Tightener	Included	6AGP4, 6AGP5	6AGN4	6AGP0	—	ATN1	**6AGK9**
	6AGL6	6AGP8	6AGN5 to 6AGN8	6AGP2, 6AGP3	6AGN9, 6AGP1	ATQ	**6AGL0**
Single Adjusting Tightener	6AGL6	6AGP8	6AGN5 to 6AGN8	6AGP2, 6AGP3	6AGN9, 6AGP1	SATQ	**6AGL9**

Overall Length	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
Tightener Shafts				
2 5⁄16 in	½ in	1 ½ in	N1	**6AGL5**
3 ⅜ in	1 in	2 ⅛ in	N2	**6AGL6**

2ZRT1

2ZRT2

Fenner Drives®

Glass-Reinforced Nylon Idler Pulleys

- 17mm bore dia.

Excellent for washdown applications and corrosive environments. ABEC-1 6203-2RS bearings.

Belt Type	Outside Dia.	Mfr. Model	Item No.
⅝ in Flat	3.5 in	FA3501	**2ZRT1**
⅞ in Flat	5.56 in	FA5501	**2ZRT2**
A	3 in	VA3001	**2ZRT3**
	3.98 in	VA4001	**2ZRT5**
B	3.1 in	VA3002	**2ZRT6**
	4 in	VA4002	**2ZRT7**
	5.04 in	VA5001	**2ZRT4**

19RU06

19RU12

Fenner Drives®

Linear Chain Tensioners

- Die-cast aluminum construction
- Single bolt for mounting and tension adjustment
- Built-in spring mechanism absorbs momentary overloads and reduces vibration
- UHMW head is self-lubricating

Offer fully automatic straight-line take up for single chain applications.

ANSI Chain Size	Force Range (lb.)	LARGE ARCH UHMW HEAD Mfr. Model	LARGE ARCH UHMW HEAD Item No.	SMALL ARCH UHMW HEAD Mfr. Model	SMALL ARCH UHMW HEAD Item No.
35	15 to 40	CT1101	**19RU06**	CT1201	**19RU12**
40	15 to 40	CT1102	**19RU07**	CT1202	**19RU13**
50	20 to 60	CT2101	**19RU08**	CT2201	**19RU14**
60	20 to 60	CT2102	**19RU09**	CT2202	**19RU15**
80	45 to 100	CT3101	**19RU10**	CT3201	**19RU16**
100	45 to 100	CT3102	**19RU11**	CT3202	**19RU17**

2ZRT8

2ZRU1

16A171

Fenner Drives®

Self-Adjusting V-Belt and Chain Tensioners

- Tensioning arm deflects up to 45° either side of neutral for wound springs; 70° for torsional wrapped springs
- Alloy steel springs

Maintain correct tension on belt and chain drives without requiring manual retensioning. Reduce resonant frequency of chain drives.

2ZRT8, 2ZRU1, 2ZRU2, and 16A169 feature accurately wound compression springs for constant tensioning force. 16A170, 2ZRT9, 2ZRU3, and 2ZRU4 feature reversible torsional wrapped spring for bidirectional use.

Description	Idler OD.	Force Range	Mfr. Model	Item No.
Tensioner for V-Belt Size				
A	3 in	0 to 30 lb.	FS0127	**2ZRT8**
B	5.04 in	0 to 30 lb.	FS0209	**16A169**
B	5.04 in	0 to 42 lb.	FS0566	**2ZRT9**
2-B	4 in	0 to 42 lb.	FS0608	**16A170**
Tensioner for ANSI Chain Size				
35	2.48 in	0 to 30 lb.	FS0072	**2ZRU1**
40	2.98 in	0 to 30 lb.	FS0071	**2ZRU2**
50	3.34 in	0 to 42 lb.	FS0567	**2ZRU4**
60	3.52 in	0 to 42 lb.	FS0568	**2ZRU3**
Mounting Bracket				
Compatible with NEMA 48, 56, and 143T Designs			B1265	**16A171**

Coupling Sprocket

Coupling Cover (½ Shown)

Coupling Chain

Complete Coupling Assembly

Chain Couplings

PowerDrive

- Operating temp.: -25° to 150°F
- Max. parallel misalignment: 0.005"

Complete unit consists of 2 coupling sprockets, double-strand roller chain, and coupling cover. Split-taper bushings required for 50 and 60 pitch couplings, see page 115. Coupling sprockets are steel construction with fixed-bore versions having standard keyway and set screw. Coupling covers are cast-aluminum with seals, grease fitting, and hardware for installation.

Bore Dia.	HP Rating @ 100 RPM	COUPLING SPROCKETS (2 REQUIRED)* Bushing Req.	Mfr. Model	Item No.	COUPLING CHAIN (1 REQUIRED) Mfr. Model	Item No.	COUPLING COVER (OPTIONAL) Mfr. Model	Item No.
Fixed Bore*								
⅝ in	0.9 hp	—	C4016X5/8	**6AGR7**	C40-16	**6AGR2**	AL40	**6AGP9**
¾ in	0.9 hp	—	C4016X3/4	**6AGR6**	C40-16	**6AGR2**	AL40	**6AGP9**
⅞ in	0.9 hp	—	C4016X7/8	**6AGR8**	C40-16	**6AGR2**	AL40	**6AGP9**
1 in	0.9 hp	—	C4016X1	**6AGR4**	C40-16	**6AGR2**	AL40	**6AGP9**
1 ⅛ in	0.9 hp	—	C4016X1 ⅛	**6AGR5**	C40-16	**6AGR2**	AL40	**6AGP9**
1 ¼ in	0.9 hp	—	C4016X 1 ¼	**6AGR3**	C40-16	**6AGR2**	AL40	**6AGP9**
Bushed Bore								
½ - 1½ in	0.9 hp	QT or H	C5016XH	**6AGT0**	C50-16	**6AGR9**	AL50	**6AGR0**
½ - 2 7/16 in	3.86 hp	B	C6020XB	**6AGT2**	C60-20	**6AGT1**	AL60	**6AGR1**

** Sprockets work with Delrin coupling chain, this page.*

Cut-to-Length 6AGT3

Delrin Coupling Chain

PowerDrive

- Operating temp.: -25° to 150°F
- Angular misalignment tolerance: 1° (10T-19T), ½° (20T-24T)
- Max. parallel misalignment: 0.005"
- End float tolerance: 0.060"

Complete coupling consists of 2 sprockets (sold separately) and one coupling chain. Corrosion-resistant. Use with stainless steel sprockets for washdown applications. No lubrication required. Slip-fit coupler pin included with 6AGT4 through 6AGT6.

For Use With	HP Rating @ 100 RPM*	Chain Coupling Dim. O.D.	W	Mfr. Model	Item No.
Chain					
(2) 40 Pitch 12-Tooth Sprockets	0.51 hp	2.37 in	1.25 in	N412CPLG	**6AGT4**
(2) 40 Pitch 16-Tooth Sprockets	0.9 hp	3 in	1.25 in	N416CPLG	**6AGT5**
(2) 40 Pitch 24-Tooth Sprockets	2.02 hp	4.27 in	1.25 in	N424CPLG	**6AGT6**
Chain, Cut-to-Length					
40 Pitch Delrin Coupling Chain, 10 Ft.				N4 10FTCPLG CHAIN	**6AGT3**

** Based on 1.0 service factor.*

Dayton Stainless Steel

Climax Metal Products Zinc Plated Steel

Climax Metal Products Black Oxide Steel

Set Screw Shaft Collars

Dayton · Climax Metal Products Company

For soft or predrilled shafts, and they lock onto the shaft by tightening the cup point socket set screw. Zinc-plated and black oxide-coated steel collars have alloy screws; stainless steel has stainless steel screws.

Bore Dia.	Outside Dia.	W	Screw Size	ZINC PLATED STEEL Item No.	Pkg. Qty.	STAINLESS STEEL Item No.	Pkg. Qty.
Dayton							
⅛ in	⅜ in	¼ in	#6-32	**1L625**	3	**1L630**	1
3/16 in	7/16 in	¼ in	#8-32	**1L626**	3	**1L631**	1
¼ in	½ in	5/16 in	#10-32	**2X735**	3	**1L632**	1
5/16 in	⅝ in	5/16 in	#10-32	**2X736**	3	**1L633**	1
⅜ in	¾ in	⅜ in	¼"-20	**2X737**	3	**1L634**	1
7/16 in	⅞ in	7/16 in	¼"-20	**1L627**	3	**1L635**	1
½ in	1 in	7/16 in	¼"-20	**2X568**	3	**1L636**	1
9/16 in	1 in	7/16 in	¼"-20	**3ZN88**	3	—	—
⅝ in	1 ⅛ in	½ in	5/16"-18	**2X569**	3	**1L637**	1
11/16 in	1 ¼ in	9/16 in	5/16"-18	**3ZN89**	3	—	—
¾ in	1 ¼ in	9/16 in	5/16"-18	**2X570**	3	**1L638**	1
13/16 in	1 ½ in	9/16 in	5/16"-18	**3ZN90**	3	—	—
⅞ in	1 ½ in	9/16 in	5/16"-18	**2X738**	3	**1L639**	1
15/16 in	1 ⅝ in	⅝ in	5/16"-18	**3ZN91**	3	—	—
1 in	1 ⅝ in	⅝ in	5/16"-18	**2X571**	3	**1L640**	1
1 1/16 in	1 ¾ in	⅝ in	5/16"-18	**3ZN92**	1	—	—
1 ⅛ in	1 ¾ in	⅝ in	5/16"-18	**2X739**	1	**1L641**	1
1 3/16 in	2 in	11/16 in	⅜"-16	**5X643**	1	**1L642**	1
1 ¼ in	2 in	11/16 in	⅜"-16	**2X740**	1	**1L643**	1
1 5/16 in	2 ⅛ in	11/16 in	⅜"-16	**1L628**	1	**1L644**	1
1 ⅜ in	2 ⅛ in	¾ in	⅜"-16	**5X644**	1	**1L645**	1
1 7/16 in	2 ¼ in	¾ in	⅜"-16	**5X645**	1	**1L646**	1
1 ½ in	2 ¼ in	¾ in	⅜"-16	**4X228**	1	**1L647**	1
1 9/16 in	2 ½ in	13/16 in	⅜"-16	**3ZN81**	1	—	—
1 ⅝ in	2 ½ in	13/16 in	⅜"-16	**1L629**	1	**1L648**	1
1 11/16 in	2 ½ in	13/16 in	⅜"-16	**5X646**	1	**1L649**	1
1 ¾ in	2 ¾ in	⅞ in	½"-13	**4X229**	1	**1L650**	1
1 13/16 in	2 ¾ in	⅞ in	½"-13	**3ZN82**	1	—	—
1 ⅞ in	2 ¾ in	⅞ in	½"-13	**4X230**	1	—	—
1 15/16 in	3 in	⅞ in	½"-13	**4X231**	1	**1L652**	1
2 in	3 in	⅞ in	½"-13	**4X232**	1	**1L653**	1
2 ¼ in	3 ¼ in	15/16 in	½"-13	**3ZN83**	1	—	—
2 7/16 in	3 ½ in	1 in	½"-13	**3ZN84**	1	—	—
2 ½ in	3 ½ in	1 in	½"-13	**3ZN85**	1	—	—
2 15/16 in	4 ¼ in	1 ⅛ in	½"-13	**3ZN86**	1	—	—
3 in	4 ¼ in	1 ⅛ in	½"-13	**3ZN87**	1	—	—

Bore Dia.	Outside Dia.	W	Screw Size	BLACK OXIDE STEEL Item No.	Pkg. Qty.	ZINC PLATED STEEL Item No.	Pkg. Qty.
Climax Metal Products							
⅛ in	⅜ in	¼ in	6-32 x ⅛ in	**36WX91**	1	**36WX89**	1
3/16 in	7/16 in	¼ in	8-32 x ⅛ in	**36WX94**	1	**36WX92**	1
¼ in	½ in	5/16 in	10-32 x ⅛ in	**36WX97**	1	**36WX95**	1
5/16 in	⅝ in	5/16 in	10-32 x ⅛ in	**36WY01**	1	**36WX98**	1
⅜ in	¾ in	⅜ in	¼"-20 x 3/16	**36WY04**	1	**36WY02**	1
7/16 in	⅞ in	7/16 in	¼"-20 x ¼ in	**36WY07**	1	**36WY05**	1
½ in	1 in	7/16 in	¼"-20 x ¼ in	**36WY10**	1	**36WY08**	1
⅝ in	1 ⅛ in	½ in	5/16"-18 x ¼ in	**36WY13**	1	**36WY11**	1
¾ in	1 ¼ in	9/16 in	5/16"-18 x ¼ in	**36WY16**	1	**36WY14**	1
⅞ in	1 ½ in	9/16 in	5/16"-18 x 5/16 in	**36WY19**	1	**36WY17**	1
15/16 in	1 ½ in	9/16 in	5/16"-24 x ¼ in	**36WY22**	1	**36WY20**	1
1 in	1 ½ in	⅝ in	5/16"-24 x ¼ in	**36WY25**	1	**36WY23**	1
1 ⅛ in	1 ¾ in	⅝ in	5/16"-18	**29NW87**	1	—	—
1 3/16 in	2 in	11/16 in	⅜"-16	**29NW88**	1	—	—
1 ¼ in	2 in	11/16 in	⅜"-16	**29NW89**	1	—	—
1 5/16 in	2 ⅛ in	11/16 in	⅜"-16	**29NW90**	1	—	—
1 ⅜ in	2 ⅛ in	¾ in	⅜"-16	**29NW91**	1	—	—
1 7/16 in	2 ¼ in	¾ in	⅜"-16	**29NW92**	1	—	—
1 ½ in	2 ¼ in	¾ in	⅜"-16	**29NW93**	1	—	—
1 ⅝ in	2 ¼ in	13/16 in	⅜"-16	**29NW94**	1	—	—
1 11/16 in	2 ¼ in	13/16 in	⅜"-16	**29NW95**	1	—	—
1 ¾ in	2 ⅝ in	⅞ in	½"-13	**29NW96**	1	—	—
1 ⅞ in	2 ¾ in	⅞ in	½"-13	**29NW97**	1	—	—
1 15/16 in	3 in	⅞ in	½"-13	**29NW98**	1	—	—
2 in	3 in	⅞ in	½"-13	**29NW99**	1	—	—
2 ¼ in	3 ¼ in	15/16 in	½"-13	**29NX01**	1	—	—
2 7/16 in	3 ½ in	1 in	½"-13	**29NX02**	1	—	—
2 ½ in	3 ½ in	1 in	½"-13	**29NX03**	1	—	—
2 15/16 in	4 in	1 ⅛ in	½"-13	**29NX04**	1	—	—
3 in	4 in	1 ⅛ in	½"-13	**29NX05**	1	—	—

Ruland
Black Oxide 1215
Lead-Free Steel

Ruland
Threaded 303
Stainless Steel

Adjustable Drill
Depth Stop
Collar Set

Bore Dia.
Collar Sets Include Sizes:
1/8"
3/16"
1/4"
5/16"
3/8"
7/16"
1/2"

Dayton RULAND

1-Pc. Clamp Shaft Collars and Collar Sets

- Ruland: TIR <0.002" (0.05mm)
- Ruland collars are RoHS2 and REACH compliant

Design wraps tightly around the shaft for even distribution of clamping forces without the shaft damage caused by set screws, and with greater holding power. Forged clamp screws meet or exceed ANSI standards. Black oxide-coated steel and aluminum have alloy socket cap screws. Stainless steel has stainless steel socket cap screws. Threaded collars offer superior axial holding power compared with smooth bore units and are easier to install and adjust. Ruland collar materials are sourced exclusively from North American mills.

Adjustable Drill Depth Stop Collar Sets—Include seven 1-pc. clamp-style shaft collars (from ⅛" to ½" in 1⁄16" increments) with hex wrenches in a sturdy plastic box.

Bore Dia.	Outside Dia.	W	Screw Size	BLACK OXIDE STEEL Item No.	STAINLESS STEEL Item No.
Dayton					
⅛ in	½ in	¼ in	#4-40	**1L654**	—
3⁄16 in	⅝ in	5⁄16 in	#4-40	**1L655**	**1L674**
¼ in	11⁄16 in	5⁄16 in	#4-40	**1L656**	**1L675**
5⁄16 in	11⁄16 in	5⁄16 in	#4-40	**1L657**	**1L676**
⅜ in	⅞ in	11⁄32 in	#6-32	**1L658**	**1L677**
7⁄16 in	15⁄16 in	⅜ in	#6-32	**1L659**	**1L678**
½ in	1 ⅛ in	13⁄32 in	#8-32	**1L660**	**1L679**
⅝ in	1 5⁄16 in	7⁄16 in	#10-32	**1L661**	**1L680**
¾ in	1 ½ in	½ in	¼"-28	**1L662**	**1L681**
⅞ in	1 ⅝ in	½ in	¼"-28	**1L663**	**1L682**
1 in	1 ¾ in	½ in	¼"-28	**1L664**	**1L683**
1 ⅛ in	1 ⅞ in	½ in	¼"-28	**1L665**	**1L684**
1 3⁄16 in	2 1⁄16 in	½ in	¼"-28	**3ZP02**	—
1 ¼ in	2 1⁄16 in	½ in	¼"-28	**1L666**	**1L685**
1 ⅜ in	2 ¼ in	9⁄16 in	¼"-28	**1L667**	**1L686**
1 7⁄16 in	2 ¼ in	9⁄16 in	¼"-28	**3ZN93**	—
1 ½ in	2 ⅜ in	9⁄16 in	¼"-28	**1L668**	**1L687**
1 ⅝ in	2 ⅝ in	11⁄16 in	5⁄16"-24	**1L669**	—
1 11⁄16 in	2 ¾ in	11⁄16 in	5⁄16"-24	**3ZN94**	—
1 ¾ in	2 ¾ in	11⁄16 in	5⁄16"-24	**1L670**	**1L689**
1 ⅞ in	2 ⅞ in	11⁄16 in	5⁄16"-24	**1L671**	—
1 15⁄16 in	3 in	11⁄16 in	5⁄16"-24	**3ZN95**	—
2 in	3 in	11⁄16 in	5⁄16"-24	**1L672**	**1L691**
2 ¼ in	3 ¼ in	¾ in	5⁄16"-24	**3ZN96**	—
2 7⁄16 in	3 ½ in	¾ in	5⁄16"-24	**3ZN97**	—
2 ½ in	3 ¾ in	⅞ in	⅜"-24	**3ZN98**	—
2 15⁄16 in	4 ¼ in	⅞ in	⅜"-24	**3ZN99**	—
3 in	4 ¼ in	⅞ in	⅜"-24	**3ZP01**	—

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	2024 ALUMINUM Item No.	303 STAINLESS STEEL Item No.
Ruland							
⅛ in	⅝ in	9⁄32 in	#4-40	CL-2-*	**2AKN5**	**2AKN4**	**2AKN6**
3⁄16 in	⅝ in	9⁄32 in	#4-40	CL-3-*	**2AKU2**	**2AKU1**	**2AKU3**
¼ in	⅝ in	9⁄32 in	#4-40	CL-4-*	**2AKW4**	**2AKW2**	**2AKW6**
5⁄16 in	11⁄16 in	9⁄32 in	#4-40	CL-5-*	**2AKX1**	**2AKW8**	**2AKX3**
⅜ in	⅞ in	11⁄32 in	#6-32	CL-6-*	**2AKX7**	**2AKX5**	**2AKX9**
7⁄16 in	15⁄16 in	11⁄32 in	#6-32	CL-7-*	**2AKY4**	**2AKY2**	**2AKY6**
½ in	1 ⅛ in	13⁄32 in	#8-32	CL-8-*	**2AKZ1**	**2AKY8**	**2AKZ3**
9⁄16 in	1 ¼ in	7⁄16 in	#10-32	CL-9-*	**2AKZ7**	**2AKZ5**	**2AKZ9**
⅝ in	1 5⁄16 in	7⁄16 in	#10-32	CL-10-*	**2AKF8**	**2AKF7**	**2AKF9**
11⁄16 in	1 ⅜ in	7⁄16 in	#10-32	CL-11-*	**2AKG2**	**2AKG1**	**2AKG3**
¾ in	1 ½ in	½ in	¼"-28	CL-12-*	**2AKG5**	**2AKG4**	**2AKG6**
13⁄16 in	1 ⅝ in	½ in	¼"-28	CL-13-*	**2AKG8**	**2AKG7**	**2AKG9**
⅞ in	1 ⅝ in	½ in	¼"-28	CL-14-*	**2AKH2**	**2AKH1**	**2AKH3**
15⁄16 in	1 ¾ in	½ in	¼"-28	CL-15-*	**2AKH5**	**2AKH4**	**2AKH6**
1 in	1 ¾ in	½ in	¼"-28	CL-16-*	**2AKH8**	**2AKH7**	**2AKH9**
1 1⁄16 in	1 ⅞ in	½ in	¼"-28	CL-17-*	**2AKJ2**	**2AKJ1**	**2AKJ3**
1 ⅛ in	1 ⅞ in	½ in	¼"-28	CL-18-*	**2AKJ5**	**2AKJ4**	**2AKJ6**
1 3⁄16 in	2 1⁄16 in	½ in	¼"-28	CL-19-*	**2AKJ8**	**2AKJ7**	**2AKJ9**
1 ¼ in	2 1⁄16 in	½ in	¼"-28	CL-20-*	**2AKK2**	**2AKK1**	**2AKK3**
1 5⁄16 in	2 ⅛ in	9⁄16 in	¼"-28	CL-21-*	**2AKK5**	**2AKK4**	**2AKK6**
1 ⅜ in	2 ¼ in	9⁄16 in	¼"-28	CL-22-*	**2AKK8**	**2AKK7**	**2AKK9**
1 7⁄16 in	2 ¼ in	9⁄16 in	¼"-28	CL-23-*	**2AKL2**	**2AKL1**	**2AKL3**
1 ½ in	2 ⅜ in	9⁄16 in	¼"-28	CL-24-*	**2AKL5**	**2AKL4**	**2AKL6**
1 9⁄16 in	2 ⅜ in	9⁄16 in	¼"-28	CL-25-*	**2AKL8**	**2AKL7**	**2AKL9**
1 ⅝ in	2 ⅝ in	11⁄16 in	5⁄16"-24	CL-26-*	**2AUU8**	**2AUU7**	**2AUU9**
1 11⁄16 in	2 ¾ in	11⁄16 in	5⁄16"-24	CL-27-*	**2AUV2**	**2AUV1**	**2AUV3**
1 ¾ in	2 ¾ in	11⁄16 in	5⁄16"-24	CL-28-*	**2AUV5**	**2AUV4**	**2AUV6**
Ruland (Cont.)							
1 13⁄16 in	2 ⅞ in	11⁄16 in	5⁄16"-24	CL-29-*	**2AKN2**	**2AKN1**	**2AKN3**
1 ⅞ in	2 ⅞ in	11⁄16 in	5⁄16"-24	CL-30-*	**2AKN8**	**2AKN7**	**2AKN9**
1 15⁄16 in	3 in	11⁄16 in	5⁄16"-24	CL-31-*	**2AKP2**	**2AKP1**	**2AKP3**
2 in	3 in	11⁄16 in	5⁄16"-24	CL-32-*	**2AKP5**	**2AKP4**	**2AKP6**
2 1⁄16 in	3 ⅛ in	¾ in	5⁄16"-24	CL-33-*	**2AKP8**	**2AKP7**	**2AKP9**
2 ⅛ in	3 ¼ in	¾ in	5⁄16"-24	CL-34-*	**2AKR2**	**2AKR1**	**2AKR3**
2 3⁄16 in	3 ¼ in	¾ in	5⁄16"-24	CL-35-*	**2AKR5**	**2AKR4**	**2AKR6**
2 ¼ in	3 ¼ in	¾ in	5⁄16"-24	CL-36-*	**2AKR8**	**2AKR7**	**2AKR9**
2 5⁄16 in	3 ⅜ in	¾ in	5⁄16"-24	CL-37-*	**2AKT2**	**2AKT1**	**2AKT3**
2 ⅜ in	3 ½ in	¾ in	5⁄16"-24	CL-38-*	**2AKT5**	**2AKT4**	**2AKT6**
2 7⁄16 in	3 ½ in	¾ in	5⁄16"-24	CL-39-*	**2AKT8**	**2AKT7**	**2AKT9**
2 ½ in	3 ¾ in	⅞ in	⅜"-24	CL-40-*	**2AHV1**	**2AKU4**	**2ARE9**
2 9⁄16 in	3 ⅞ in	⅞ in	⅜"-24	CL-41-*	**2ARF1**	—	**2ARF2**
2 ⅝ in	3 ⅞ in	⅞ in	⅜"-24	CL-42-*	**2ARF3**	—	**2ARF4**
2 11⁄16 in	4 in	⅞ in	⅜"-24	CL-43-*	**2ARF5**	—	**2AKU5**
2 ¾ in	4 in	⅞ in	⅜"-24	CL-44-*	**2AKU7**	**2AKU6**	**2AKU8**
2 13⁄16 in	4 ¼ in	⅞ in	⅜"-24	CL-45-*	**2AKU9**	—	**2AKV1**
2 ⅞ in	4 ¼ in	⅞ in	⅜"-24	CL-46-*	**2AKV3**	**2AKV2**	**2AKV4**
2 15⁄16 in	4 ¼ in	⅞ in	⅜"-24	CL-47-*	**2AKV6**	**2AKV5**	**2AKV7**
3 in	4 ¼ in	⅞ in	⅜"-24	CL-48-*	**2AKV9**	**2AKV8**	**2AKW1**

***** To complete manufacturer model number, substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.*

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	303 STAINLESS STEEL Item No.
Ruland Threaded						
¼"-20	⅝ in	9⁄32 in	#4-40	TCL-4-20-*	**2ALC1**	**2ALC3**
¼"-28	⅝ in	9⁄32 in	#4-40	TCL-4-28-*	**2ALC5**	**2ALC7**
5⁄16"-18	11⁄16 in	9⁄32 in	#4-40	TCL-5-18-*	**2ALC9**	**2ALD2**
5⁄16"-24	11⁄16 in	9⁄32 in	#4-40	TCL-5-24-*	**2ALD4**	**2ALD6**
⅜"-16	⅞ in	11⁄32 in	#6-32	TCL-6-16-*	**2ALD8**	**2ALE1**
⅜"-24	⅞ in	11⁄32 in	#6-32	TCL-6-24-*	**2ALE3**	**2ALE5**
7⁄16"-14	15⁄16 in	11⁄32 in	#6-32	TCL-7-14-*	**2ALE7**	**2ALE9**
7⁄16"-20	15⁄16 in	11⁄32 in	#6-32	TCL-7-20-*	**2ALF2**	**2ALF4**
½"-13	1 ⅛ in	13⁄32 in	#8-32	TCL-8-13-*	**2ALF6**	**2ALF8**
½"-20	1 ⅛ in	13⁄32 in	#8-32	TCL-8-20-*	**2ALG1**	**2ALG3**
⅝"-11	1 5⁄16 in	7⁄16 in	#10-32	TCL-10-11-*	**2ADC8**	**2ADD2**
⅝"-18	1 5⁄16 in	7⁄16 in	#10-32	TCL-10-18-*	**2ADD5**	**2ADD8**
¾"-10	1 ½ in	½ in	¼"-28	TCL-12-10-*	**2ADE2**	**2ADE5**
¾"-16	1 ½ in	½ in	¼"-28	TCL-12-16-*	**2AKW3**	**2AKW5**
⅞"-14	1 ⅝ in	½ in	¼"-28	TCL-14-14-*	**2AKW7**	**2AKW9**
⅞"-9	1 ⅝ in	½ in	¼"-28	TCL-14-9-*	**2AKX2**	**2AKX4**
1"-12	1 ¾ in	½ in	¼"-28	TCL-16-12-*	**2AKX6**	**2AKX8**
1"-14	1 ¾ in	½ in	¼"-28	TCL-16-14-*	**2AKY1**	**2AKY3**
1"-8	1 ¾ in	½ in	¼"-28	TCL-16-8-*	**2AKY5**	**2AKY7**
1⅛"-12	1 ⅞ in	½ in	¼"-28	TCL-18-12-*	**2AKY9**	**2AKZ2**
1¼"-12	2 1⁄16 in	½ in	¼"-28	TCL-20-12-*	**2AKZ4**	**2AKZ6**
1¼"-7	2 1⁄16 in	½ in	¼"-28	TCL-20-7-*	**2AKZ8**	**2ALA1**
1⅜"-12	2 ¼ in	9⁄16 in	¼"-28	TCL-22-12-*	**2ALA3**	**2ALA5**
1½"-12	2 ⅜ in	9⁄16 in	¼"-28	TCL-24-12-*	**2ALA7**	**2ALA9**
1¾"-16	2 ¾ in	11⁄16 in	5⁄16"-24	TCL-28-16-*	**2ALB2**	**2ALB4**
2"-12	3 in	11⁄16 in	5⁄16"-24	TCL-32-12-*	**2ALB6**	**2ALB8**

***** To complete manufacturer model number, substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.*

Description	DAYTON Item No.	RULAND Item No.
Adjustable Drill Depth Stop Collar Sets	**1F616**	**2ADN8**

Scan. Order. Done.
Details on page A1.

Ruland Black Oxide 1215 Lead-Free Steel

Ruland 2024 Aluminum

Ruland 303 Stainless Steel

Dayton RULAND Carefully Made Shaft Collars and Couplings

2-Pc. Clamp Shaft Collars

Wrap around hard or soft shafts without marring. Easy to install without having to disassemble machinery or components. Black oxide-coated steel and aluminum have alloy socket cap screws; stainless steel has stainless steel socket cap screws.

Ruland—Collars are made exclusively from North American bar stock and mated throughout the manufacturing process to assure a proper fit. Machined to a burr-free finish. High-grade forged screws meet or exceed ANSI standards.

- TIR <0.002" (0.05mm)
- RoHS2 and REACH compliant

Bore Dia.	Outside Dia.	W	Screw Size	BLACK OXIDE STEEL Item No.	STAINLESS STEEL Item No.
Dayton					
1/8 in	1/2 in	1/4 in	#4-40	**1L692**	**1L711**
3/16 in	5/8 in	5/16 in	#4-40	**1L693**	**1L712**
1/4 in	11/16 in	5/16 in	#4-40	**1L694**	**1L713**
5/16 in	11/16 in	5/16 in	#4-40	**1L695**	**1L714**
3/8 in	7/8 in	11/32 in	#6-32	**1L696**	**1L715**
7/16 in	15/16 in	3/8 in	#6-32	**1L697**	**1L716**
1/2 in	1 1/8 in	13/32 in	#8-32	**1L698**	**1L717**
5/8 in	1 5/16 in	7/16 in	#10-32	**1L699**	**1L718**
3/4 in	1 1/2 in	1/2 in	1/4"-28	**1L700**	**1L719**
7/8 in	1 5/8 in	1/2 in	1/4"-28	**1L701**	**1L720**
1 in	1 3/4 in	1/2 in	1/4"-28	**1L702**	**1L721**
1 1/8 in	1 7/8 in	1/2 in	1/4"-28	**1L703**	**1L722**
1 1/4 in	2 1/16 in	1/2 in	1/4"-28	**1L704**	**1L723**
1 3/16 in	2 1/16 in	1/2 in	1/4"-28	**3ZN80**	—
1 3/8 in	2 1/4 in	9/16 in	1/4"-28	**1L705**	**1L724**
1 7/16 in	2 1/4 in	9/16 in	1/4"-28	**3ZN72**	—
1 1/2 in	2 3/8 in	9/16 in	1/4"-28	**1L706**	**1L725**
1 5/8 in	2 5/8 in	11/16 in	5/16"-24	**1L707**	**1L726**
1 3/4 in	2 3/4 in	11/16 in	5/16"-24	**1L708**	**1L727**
1 11/16 in	2 3/4 in	11/16 in	5/16"-24	**3ZN73**	—
1 7/8 in	2 7/8 in	11/16 in	5/16"-24	**1L709**	**1L728**
1 15/16 in	3 in	11/16 in	5/16"-24	**3ZN74**	—
2 in	3 in	11/16 in	5/16"-24	**1L710**	**1L729**
2 1/4 in	3 1/4 in	3/4 in	5/16"-24	**3ZN75**	—
2 7/16 in	3 1/2 in	3/4 in	5/16"-24	**3ZN76**	—
2 1/2 in	3 3/4 in	7/8 in	3/8"-24	**3ZN77**	—
2 15/16 in	4 1/4 in	7/8 in	3/8"-24	**3ZN78**	—
3 in	4 1/4 in	7/8 in	3/8"-24	**3ZN79**	—

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	BLACK OXIDE 1215 LEAD-FREE STEEL Item No.	2024 ALUMINUM Item No.	303 STAINLESS STEEL Item No.
Ruland							
1/8 in	5/8 in	9/32 in	#4-40	SP-2-*	**2APP5**	**2APP2**	**2APP8**
3/16 in	5/8 in	9/32 in	#4-40	SP-3-*	**2ARC3**	**2ARB9**	**2ARC6**
1/4 in	5/8 in	9/32 in	#4-40	SP-4-*	**2ACT5**	**2ACT2**	**2ACT8**
5/16 in	11/16 in	9/32 in	#4-40	SP-5-*	**2ACW6**	**2ACW3**	**2ACW9**
3/8 in	7/8 in	11/32 in	#6-32	SP-6-*	**2ACZ3**	**2ACY9**	**2ACZ6**
7/16 in	15/16 in	11/32 in	#6-32	SP-7-*	**2ADA3**	**2ACZ9**	**2ADA6**
1/2 in	1 1/8 in	13/32 in	#8-32	SP-8-*	**2ADB2**	**2ADA9**	**2ADB5**
9/16 in	1 1/4 in	7/16 in	#10-32	SP-9-*	**2ADC2**	**2ADB8**	**2ADC5**
5/8 in	1 5/16 in	7/16 in	#10-32	SP-10-*	**2ANT5**	**2ANT2**	**2ANT8**
11/16 in	1 3/8 in	7/16 in	#10-32	SP-11-*	**2ANU5**	**2ANU2**	**2ANU8**
3/4 in	1 1/2 in	1/2 in	1/4"-28	SP-12-*	**2ANV5**	**2ANV2**	**2ANV8**
13/16 in	1 5/8 in	1/2 in	1/4"-28	SP-13-*	**2ANW5**	**2ANW2**	**2ANW8**
7/8 in	1 5/8 in	1/2 in	1/4"-28	SP-14-*	**2ANX5**	**2ANX2**	**2ANX8**
15/16 in	1 3/4 in	1/2 in	1/4"-28	SP-15-*	**2ANY5**	**2ANY2**	**2ANY8**
1 in	1 3/4 in	1/2 in	1/4"-28	SP-16-*	**2ANZ5**	**2ANZ2**	**2ANZ8**
1 1/16 in	1 7/8 in	1/2 in	1/4"-28	SP-17-*	**2APA5**	**2APA2**	**2APA8**
1 1/8 in	1 7/8 in	1/2 in	1/4"-28	SP-18-*	**2APB5**	**2APB2**	**2APB8**
1 3/16 in	2 1/16 in	1/2 in	1/4"-28	SP-19-*	**2APC5**	**2APC2**	**2APC8**
1 1/4 in	2 1/16 in	1/2 in	1/4"-28	SP-20-*	**2APD5**	**2APD2**	**2APD8**
1 5/16 in	2 1/8 in	9/16 in	1/4"-28	SP-21-*	**2APE5**	**2APE2**	**2APE8**
1 3/8 in	2 1/4 in	9/16 in	1/4"-28	SP-22-*	**2APF5**	**2APF2**	**2APF8**
1 7/16 in	2 1/4 in	9/16 in	1/4"-28	SP-23-*	**2APG5**	**2APG2**	**2APG8**
1 1/2 in	2 3/8 in	9/16 in	1/4"-28	SP-24-*	**2APH5**	**2APH2**	**2APH8**
1 9/16 in	2 3/8 in	9/16 in	1/4"-28	SP-25-*	**2APJ5**	**2APJ2**	**2APJ8**
1 5/8 in	2 5/8 in	11/16 in	5/16"-24	SP-26-*	**2APK5**	**2APK2**	**2APK8**
1 11/16 in	2 3/4 in	11/16 in	5/16"-24	SP-27-*	**2APL5**	**2APL2**	**2APL8**
1 3/4 in	2 3/4 in	11/16 in	5/16"-24	SP-28-*	**2AUZ2**	**2AUY8**	**2AUZ5**
1 13/16 in	2 7/8 in	11/16 in	5/16"-24	SP-29-*	**2APN5**	**2APN2**	**2APN8**
1 7/8 in	2 7/8 in	11/16 in	5/16"-24	SP-30-*	**1BEZ4**	**1BBE3**	**1CEZ9**
1 15/16 in	3 in	11/16 in	5/16"-24	SP-31-*	**2APT5**	**2APT2**	**2APT8**
2 in	3 in	11/16 in	5/16"-24	SP-32-*	**2APU5**	**2APU2**	**2ARF6**
2 1/16 in	3 1/8 in	3/4 in	5/16"-24	SP-33-*	**2APV3**	**2APU9**	**2APV6**
2 1/8 in	3 1/4 in	3/4 in	5/16"-24	SP-34-*	**2APW3**	**2APV9**	**2APW6**
2 3/16 in	3 1/4 in	3/4 in	5/16"-24	SP-35-*	**2APX3**	**2APW9**	**2APX6**
2 1/4 in	3 1/4 in	3/4 in	5/16"-24	SP-36-*	**2APY3**	**2APX9**	**2APY6**
2 5/16 in	3 3/8 in	3/4 in	5/16"-24	SP-37-*	**2APZ3**	**2APY9**	**2APZ6**
2 3/8 in	3 1/2 in	3/4 in	5/16"-24	SP-38-*	**2ARA3**	**2APZ9**	**2ARA6**
2 7/16 in	3 1/2 in	3/4 in	5/16"-24	SP-39-*	**2ARB3**	**2ARA9**	**2ARB6**
2 1/2 in	3 3/4 in	7/8 in	3/8"-24	SP-40-*	**2AUF4**	**2AUF1**	**2AUF7**
2 9/16 in	3 7/8 in	7/8 in	3/8"-24	SP-41-*	**2AUH1**	—	**2AUH3**
2 5/8 in	3 7/8 in	7/8 in	3/8"-24	SP-42-*	**2ACK2**	—	**2AVJ9**
2 11/16 in	4 in	7/8 in	3/8"-24	SP-43-*	**2AUH6**	—	**2ACL2**
2 3/4 in	4 in	7/8 in	3/8"-24	SP-44-*	**2ACL8**	**2ACL5**	**2AUK8**
2 13/16 in	4 1/4 in	7/8 in	3/8"-24	SP-45-*	**2AUL2**	—	**2AUL5**
2 7/8 in	4 1/4 in	7/8 in	3/8"-24	SP-46-*	**2ACN5**	**2ACN2**	**2ACN8**
2 15/16 in	4 1/4 in	7/8 in	3/8"-24	SP-47-*	**2ACP5**	**2ACP2**	**2ACP8**
3 in	4 1/4 in	7/8 in	3/8"-24	SP-48-*	**2ACR5**	**2ACR2**	**2ACR8**

** To complete manufacturer model number substitute "F" for black oxide, "A" for aluminum, and "SS" for stainless steel.*

5DFH1

RULAND Carefully Made Shaft Collars and Couplings

Quick-Clamping Shaft Collars

- TIR <0.002" (0.05mm)
- RoHS2 and REACH compliant

Designed for quick and easy installation or repositioning with no tools required. Constructed of lightweight anodized aluminum, with stainless steel screws. All materials sourced exclusively from North American mills.

Bore Dia.	Outside Dia.	W	Screw Size	Mfr. Model	Item No.
3/8 in	1 1/2 in	197/500 in	M3	QCL-6-A	**5DFH1**
1/2 in	1 1/2 in	197/500 in	M3	QCL-8-A	**5DFH2**
5/8 in	1 1/2 in	197/500 in	M3	QCL-10-A	**5DFH3**
3/4 in	1 63/64 in	64/125 in	M4	QCL-12-A	**5DFH4**
1 in	1 63/64 in	64/125 in	M4	QCL-16-A	**5DFH5**
1 1/8 in	1 63/64 in	64/125 in	M4	QCL-18-A	**5DFH6**
1 1/4 in	2 61/64 in	591/1000 in	M5	QCL-20-A	**5DFH7**
1 3/8 in	2 61/64 in	591/1000 in	M5	QCL-22-A	**5DFH8**
1 1/2 in	2 61/64 in	591/1000 in	M5	QCL-24-A	**5DFH9**

Set Screw Rigid Couplings

For soft or predrilled shafts in applications where alignment is critical, no backlash is desired, and flexibility is not required. Lock onto shaft by tightening alloy cup point socket set screws. Dayton brand has 2 screws. Ruland brand rigid shaft couplings are precision honed with 4 screws.

Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Max. Torque	Max. RPM	Mfr. Model	Item No.
Dayton Zinc-Plated Steel								
Without Keyway								
¼ in	½ in	¾ in	#10-32	—	70 in-lb	3,500 RPM	6L012	**6L012**
5/16 in	⅝ in	1 in	#10-32	—	90 in-lb	3,500 RPM	6L013	**6L013**
⅜ in	¾ in	1 in	¼"-28	—	180 in-lb	3,500 RPM	6L014	**6L014**
With Keyway								
½ in	1 in	1 ½ in	¼"-28	⅛ in	240 in-lb	3,500 RPM	6L015	**6L015**
⅝ in	1 ¼ in	2 in	5/16"-18	3/16 in	475 in-lb	3,500 RPM	6L016	**6L016**
¾ in	1 ½ in	2 in	5/16"-18	3/16 in	575 in-lb	3,500 RPM	6L017	**6L017**
⅞ in	1 ¾ in	2 in	5/16"-18	3/16 in	660 in-lb	1,800 RPM	6L018	**6L018**
1 ⅛ in	2 ⅛ in	3 in	⅜"-16	¼ in	1,200 in-lb	1,800 RPM	3ZN53	**3ZN53**
1 ¼ in	2 ¼ in	4 in	⅜"-16	¼ in	1,300 in-lb	1,800 RPM	3ZN50	**3ZN50**
1 ½ in	2 ½ in	4 ½ in	⅜"-16	⅜ in	1,600 in-lb	1,800 RPM	3ZN52	**3ZN52**
1 ⅜ in	2 ⅜ in	4 ½ in	⅜"-16	5/16 in	1,500 in-lb	1,800 RPM	3ZN51	**3ZN51**
1 in	2 in	3 in	5/16"-18	¼ in	750 in-lb	1,800 RPM	6L019	**6L019**
Ruland 1215 Black Oxide Lead Free Steel								
Without Keyway								
¼ in	⅝ in	1 in	#10-32	—	80 in-lb	4,000 RPM	SCX-4-4-F	**2AEK6**
5/16 in	⅞ in	1 ⅜ in	¼"-20	—	150 in-lb	4,000 RPM	SCX-5-5-F	**2AEK7**
⅜ in	⅞ in	1 ⅜ in	¼"-20	—	200 in-lb	4,000 RPM	SCX-6-6-F	**2AEK8**
With Keyway								
½ in	1 ⅛ in	1 ¾ in	¼"-20	⅛ in	240 in-lb	4,000 RPM	SCC-8-8-F	**2AEK5**
⅝ in	1 5/16 in	2 in	5/16"-18	3/16 in	475 in-lb	4,000 RPM	SCC-10-10-F	**2ARD3**
¾ in	1 ½ in	2 ¼ in	5/16"-18	3/16 in	600 in-lb	4,000 RPM	SCC-12-12-F	**2ARD4**
⅞ in	1 ⅝ in	2 ½ in	5/16"-18	3/16 in	675 in-lb	4,000 RPM	SCC-14-14-F	**2ARD5**
1 in	1 ¾ in	3 in	5/16"-18	¼ in	750 in-lb	4,000 RPM	SCC-16-16-F	**2ARD6**
1 ⅛ in	1 ⅞ in	3 ⅛ in	⅜"-16	¼ in	1,200 in-lb	4,000 RPM	SCC-18-18-F	**2ARD7**
1 ¼ in	2 1/16 in	3 ¼ in	⅜"-16	¼ in	1,350 in-lb	4,000 RPM	SCC-20-20-F	**2ARD8**
1 ⅜ in	2 ½ in	3 ⅝ in	⅜"-16	5/16 in	1,450 in-lb	4,000 RPM	SCC-22-22-F	**2AEK3**
1 ½ in	2 ⅝ in	3 ⅞ in	⅜"-16	⅜ in	1,600 in-lb	4,000 RPM	SCC-24-24-F	**2AEK4**

Dayton Zinc-Plated Steel without Keyway

Ruland 1215 Black Oxide Lead-Free Steel with Keyway

1- and 2-Pc. Clamp Rigid Couplings

- Max. rpm: 4000
- Black oxide steel

For applications where alignment is critical, no backlash is desired, and flexibility is not required. Wrap around hard or soft shafts without marring. Utilize vibration-resistant socket cap screws. The 2-pc. designs are easy to install; no need to disassemble machinery or components.

Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Max. Torque	Item No.
1-pc. Without Keyway						
¼ in	⅝ in	1 ⅛ in	#4-40	—	25 in-lb	**3ZN29**
5/16 in	11/16 in	1 ⅛ in	#4-40	—	60 in-lb	**3ZN30**
⅜ in	⅞ in	1 ⅜ in	#6-32	—	190 in-lb	**3ZN31**
½ in	1 ⅛ in	1 ¾ in	#8-32	—	480 in-lb	**3ZN32**
⅝ in	1 5/16 in	2 in	#10-32	—	940 in-lb	**3ZN33**
¾ in	1 ½ in	2 ¼ in	¼"-28	—	1,950 in-lb	**3ZN34**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	2,280 in-lb	**3ZN35**
1 in	1 ¾ in	3 in	¼"-28	—	2,600 in-lb	**3ZN36**
1-pc. With Keyway						
½ in	1 ⅛ in	1 ¾ in	#8-32	⅛ in	480 in-lb	**3ZN57**
⅝ in	1 5/16 in	2 in	#10-32	3/16 in	940 in-lb	**3ZN58**
¾ in	1 ½ in	2 ¼ in	¼"-28	3/16 in	1,950 in-lb	**3ZN59**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	3/16 in	2,280 in-lb	**3ZN60**
1 in	1 ¾ in	3 in	¼"-28	¼ in	2,600 in-lb	**3ZN61**
2-pc. Without Keyway						
⅜ in	⅞ in	1 ⅜ in	#6-32	—	190 in-lb	**3ZN43**
½ in	1 ⅛ in	1 ¾ in	#8-32	—	480 in-lb	**3ZN44**
⅝ in	1 5/16 in	2 in	#10-32	—	940 in-lb	**3ZN45**
¾ in	1 ½ in	2 ¼ in	¼"-28	—	1,950 in-lb	**3ZN46**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	2,280 in-lb	**3ZN47**
1 in	1 ¾ in	3 in	¼"-28	—	2,600 in-lb	**3ZN48**
2-pc. With Keyway						
½ in	1 ⅛ in	1 ¾ in	#8-32	⅛ in	480 in-lb	**3ZN66**
⅝ in	1 5/16 in	2 in	#10-32	3/16 in	940 in-lb	**3ZN67**
¾ in	1 ½ in	2 ¼ in	¼"-28	3/16 in	1,950 in-lb	**3ZN68**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	3/16 in	2,280 in-lb	**3ZN69**
1 in	1 ¾ in	3 in	¼"-28	¼ in	2,600 in-lb	**3ZN70**

1-pc. Without Keyway

2-pc. With Keyway

RULAND
Carefully Made Shaft Collars and Couplings

1- and 2-Pc. Clamp Rigid Couplings

- Max. rpm: 4000
- Tolerance: +0.002"/0.0005"

For applications in which alignment is critical, no backlash is desired, and flexibility is not required. The couplings wrap around hard or soft shafts without marring. Honed straight bores improve accuracy. Nypatch-coated hardware resists loosening caused by vibration. Utilize vibration-resistant socket cap screws. Black oxide-coated steel couplings have alloy screws; stainless steel couplings have stainless steel screws. All are RoHS2 and REACH compliant.

1-pc. couplings are machined from solid bar stock sourced exclusively from North American mills.

2-pc. couplings are easy to install without having to disassemble machinery or components. An opposing screw design improves balance and allows operation at higher speeds.

1-pc. 1215 Black Oxide Lead-Free Steel Without Keyway

1-pc. 303 Stainless Steel Without Keyway

2-pc.1215 Black Oxide Lead-Free Steel With Keyway

2-pc. 303 Stainless Steel With Keyway

						1215 BLACK OXIDE LEAD FREE STEEL		303 STAINLESS STEEL	
Bore Dia.	Outside Dia.	Overall Length	Screw Size	Keyway Width	Mfr. Model	Max. Torque	Item No.	Max. Torque	Item No.
1-pc. Without Keyway									
⅛ in	½ in	13⁄16 in	#2-56	—	CLX-2-2-*	60 in-lb	**2ALX4**	20 in-lb	**2ALX7**
3⁄16 in	9⁄16 in	⅞ in	#2-56	—	CLX-3-3-*	60 in-lb	**2AMB1**	20 in-lb	**2AMB4**
3⁄16 in x ¼ in	⅝ in	1 in	#4-40	—	CLX-4-3-*	200 in-lb	**2AMC1**	60 in-lb	**2AMC4**
¼ in	⅝ in	1 in	#4-40	—	CLX-4-4-*	200 in-lb	**2AMD1**	60 in-lb	**2AMD4**
¼ in x ⅜ in	⅞ in	1 ⅜ in	#6-32	—	CLX-6-4-*	475 in-lb	**2AME1**	145 in-lb	**2AME4**
5⁄16 in	⅞ in	1 ⅜ in	#6-32	—	CLX-5-5-*	450 in-lb	**2ADN6**	—	—
⅜ in	⅞ in	1 ⅜ in	#6-32	—	CLX-6-6-*	475 in-lb	**2AMF1**	145 in-lb	**2AMF4**
½ in x ⅜ in	1 ⅛ in	1 ¾ in	#8-32	—	CLX-8-6-*	950 in-lb	**2AMF7**	275 in-lb	**2AMG1**
½ in	1 ⅛ in	1 ¾ in	#8-32	—	CLX-8-8-*	950 in-lb	**2AMG7**	275 in-lb	**2AMH1**
½ in x ⅝ in	1 5⁄16 in	2 in	#10-32	—	CLX-10-8-*	1,600 in-lb	**2ALN3**	475 in-lb	**2ALN5**
½ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	—	CLX-12-8-*	3,200 in-lb	**2ALP6**	950 in-lb	**2ALP8**
½ in x 1 in	1 ¾ in	3 in	¼"-28	—	CLX-16-8-*	4,000 in-lb	**2ALT8**	1,200 in-lb	**2ALU1**
⅝ in	1 5⁄16 in	2 in	#10-32	—	CLX-10-10-*	1,600 in-lb	**2AUW5**	475 in-lb	**2ALN1**
⅝ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	—	CLX-12-10-*	3,200 in-lb	**2ALN7**	950 in-lb	**2ALN9**
⅝ in x ⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	CLX-14-10-*	3,600 in-lb	**2ALR1**	1,100 in-lb	**2ALR3**
¾ in	1 ½ in	2 ¼ in	¼"-28	—	CLX-12-12-*	3,200 in-lb	**2ALP2**	950 in-lb	**2ALP4**
¾ in x 1 in	1 ¾ in	3 in	¼"-28	—	CLX-16-12-*	4,000 in-lb	**2ALR9**	1,200 in-lb	**2ALT2**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	CLX-14-14-*	3,600 in-lb	**2ALR5**	1,100 in-lb	**2ALR7**
1 in	1 ¾ in	3 in	¼"-28	—	CLX-16-16-*	4,000 in-lb	**2ALT4**	1,200 in-lb	**2ALT6**
1 in x 1⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	—	CLX-18-16-*	4,400 in-lb	**2ALU3**	1,325 in-lb	**2ALU5**
1 in x 1¼ in	2 1⁄16 in	3 ¼ in	¼"-28	—	CLX-20-16-*	5,000 in-lb	**2ALV2**	1,500 in-lb	**2ALV4**
1 in x 1⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	—	CLX-22-16-*	9,600 in-lb	**2ALW1**	2,900 in-lb	**2ALW3**
1 in x 1½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	—	CLX-24-16-*	10,250 in-lb	**2ALY1**	3,100 in-lb	**2ALY4**
1 ⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	—	CLX-18-18-*	4,400 in-lb	**2ALU7**	1,325 in-lb	**2ALU9**
1 ¼ in	2 1⁄16 in	3 ¼ in	¼"-28	—	CLX-20-20-*	5,000 in-lb	**2ALV6**	1,500 in-lb	**2ALV8**
1 ⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	—	CLX-22-22-*	9,600 in-lb	**2ALW5**	2,900 in-lb	**2ALW7**
1 ½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	—	CLX-24-24-*	10,250 in-lb	**2ALY7**	3,100 in-lb	**2ALZ1**
1 ¾ in	3 ⅛ in	4 ½ in	⅜"-24	—	CLX-28-28-*	18,500 in-lb	**2ALZ4**	5,500 in-lb	**2ALZ7**
2 in	3 ⅜ in	4 ⅞ in	⅜"-24	—	CLX-32-32-*	20,250 in-lb	**2AMA1**	6,100 in-lb	**2AMA4**
1-pc. With Keyway									
⅜ in	⅞ in	1 ⅜ in	#6-32	3⁄32 in	CLC-6-6-*	475 in-lb	**2ALL9**	145 in-lb	**2AUV8**
½ in	1 ⅛ in	1 ¾ in	#8-32	⅛ in	CLC-8-8-*	950 in-lb	**2AUW1**	275 in-lb	**2AUW3**
⅝ in	1 5⁄16 in	2 in	#10-32	3⁄16 in	CLC-10-10-*	1,600 in-lb	**2ALG5**	475 in-lb	**2ALG7**
¾ in	1 ½ in	2 ¼ in	¼"-28	3⁄16 in	CLC-12-12-*	3,200 in-lb	**2ALG9**	950 in-lb	**2ALH2**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	3⁄16 in	CLC-14-14-*	3,600 in-lb	**2ALH4**	1,100 in-lb	**2ALH6**
1 in	1 ¾ in	3 in	¼"-28	¼ in	CLC-16-16-*	4,000 in-lb	**2ALH8**	1,200 in-lb	**2ALJ1**
1 ⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	¼ in	CLC-18-18-*	4,400 in-lb	**2ALJ3**	1,325 in-lb	**2ALJ5**
1 ¼ in	2 1⁄16 in	3 ¼ in	¼"-28	¼ in	CLC-20-20-*	5,000 in-lb	**2ALJ7**	1,500 in-lb	**2ALJ9**
1 ⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	5⁄16 in	CLC-22-22-*	9,600 in-lb	**2ALK2**	2,900 in-lb	**2ALK4**
1 ½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	⅜ in	CLC-24-24-*	10,250 in-lb	**2ALK6**	3,100 in-lb	**2ALK8**
1 ¾ in	3 ⅛ in	4 ½ in	⅜"-24	⅜ in	CLC-28-28-*	18,500 in-lb	**2ALL1**	5,500 in-lb	**2ALL3**
2 in	3 ⅜ in	4 ⅞ in	⅜"-24	½ in	CLC-32-32-*	20,250 in-lb	**2ALL5**	6,100 in-lb	**2ALL7**
2-pc. Without Keyway									
¼ in	⅝ in	1 in	#4-40	—	SPX-4-4-*	200 in-lb	**2ACP1**	60 in-lb	**2ACP4**
¼ in x ⅜ in	⅞ in	1 ⅜ in	#6-32	—	SPX-6-4-*	475 in-lb	**2ACP7**	145 in-lb	**2ACR1**
⅜ in	⅞ in	1 ⅜ in	#6-32	—	SPX-6-6-*	475 in-lb	**2ACR4**	145 in-lb	**2ACR7**
½ in x ⅜ in	1 ⅛ in	1 ¾ in	#8-32	—	SPX-8-6-*	950 in-lb	**2ACT1**	275 in-lb	**2ACT4**
½ in	1 ⅛ in	1 ¾ in	#8-32	—	SPX-8-8-*	950 in-lb	**2ACT7**	275 in-lb	**2ACU1**
½ in x ⅝ in	1 5⁄16 in	2 in	#10-32	—	SPX-10-8-*	1,600 in-lb	**2APV7**	475 in-lb	**2APW1**
½ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	—	SPX-12-8-*	3,200 in-lb	**2APX7**	950 in-lb	**2APY1**
½ in x 1 in	1 ¾ in	3 in	¼"-28	—	SPX-16-8-*	4,000 in-lb	**2ARB2**	1,200 in-lb	**2ARB5**
⅝ in	1 5⁄16 in	2 in	#10-32	—	SPX-10-10-*	1,600 in-lb	**2APV1**	475 in-lb	**2APV4**
⅝ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	—	SPX-12-10-*	3,200 in-lb	**2APW4**	950 in-lb	**2APW7**
⅝ in x ⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	SPX-14-10-*	3,600 in-lb	**2APY4**	1,100 in-lb	**2APY7**
¾ in	1 ½ in	2 ¼ in	¼"-28	—	SPX-12-12-*	3,200 in-lb	**2APX1**	950 in-lb	**2APX4**
¾ in x 1 in	1 ¾ in	3 in	¼"-28	—	SPX-16-12-*	4,000 in-lb	**2APZ8**	1,200 in-lb	**2ARA2**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	—	SPX-14-14-*	3,600 in-lb	**2APZ1**	1,100 in-lb	**2APZ5**
1 in	1 ¾ in	3 in	¼"-28	—	SPX-16-16-*	4,000 in-lb	**2ARA5**	1,200 in-lb	**2ARA8**
1 in x 1⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	—	SPX-22-16-*	9,600 in-lb	**2AUH5**	2,900 in-lb	**2AVJ8**
1 in x 1½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	—	SPX-24-16-*	10,250 in-lb	**2ACL4**	3,100 in-lb	**2ACL7**
1 in x 1⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	—	SPX-18-16-*	4,400 in-lb	**2ARB8**	1,325 in-lb	**2ARC2**
1 in x 1¼ in	2 1⁄16 in	3 ¼ in	¼"-28	—	SPX-20-16-*	5,000 in-lb	**2AUF3**	1,500 in-lb	**2AUF6**
1 ⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	—	SPX-18-18-*	4,400 in-lb	**2ARC5**	1,325 in-lb	**2ARC8**
1 ¼ in	2 1⁄16 in	3 ¼ in	¼"-28	—	SPX-20-20-*	5,000 in-lb	**2AUF9**	1,500 in-lb	**2ACJ7**
1 ⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	—	SPX-22-22-*	9,600 in-lb	**2AVK2**	2,900 in-lb	**2ACL1**
1 ½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	—	SPX-24-24-*	10,250 in-lb	**2AUK7**	3,100 in-lb	**2AUL1**
1 ¾ in	3 ⅛ in	4 ½ in	⅜"-24	—	SPX-28-28-*	18,500 in-lb	**2AUL4**	5,500 in-lb	**2ACN1**
2 in	3 ⅜ in	4 ⅞ in	⅜"-24	—	SPX-32-32-*	20,250 in-lb	**2ACN4**	6,100 in-lb	**2ACN7**
2-pc. With Keyway									
¼ in x ⅜ in	⅞ in	1 ⅜ in	#6-32	3⁄32 in x 3⁄64 in	SPC-6-4-*	475 in-lb	**1DYF2**	145 in-lb	**1DYF4**
⅜ in	⅞ in	1 ⅜ in	#6-32	3⁄32 in	SPC-6-6-*	475 in-lb	**2APT3**	145 in-lb	**2APT6**
½ in x ⅝ in	1 5⁄16 in	2 in	#10-32	3⁄16 in x ⅛ in	SPC-10-8-*	1,600 in-lb	**2APB9**	475 in-lb	**2APC3**
½ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	3⁄16 in x ⅛ in	SPC-12-8-*	3,200 in-lb	**2APD9**	950 in-lb	**2APE3**
½ in x 1 in	1 ¾ in	3 in	¼"-28	¼ in x ⅛ in	SPC-16-8-*	4,000 in-lb	**2APH3**	1,200 in-lb	**2APH6**
½ in x ⅜ in	1 ⅛ in	1 ¾ in	#8-32	⅛ in x 3⁄32 in	SPC-8-6-*	950 in-lb	**2APT9**	275 in-lb	**2APU3**
½ in	1 ⅛ in	1 ¾ in	#8-32	⅛ in	SPC-8-8-*	950 in-lb	**2APU6**	275 in-lb	**2ARF7**
⅝ in	1 5⁄16 in	2 in	#10-32	3⁄16 in	SPC-10-10-*	1,600 in-lb	**2APB3**	475 in-lb	**2APB6**
⅝ in x ¾ in	1 ½ in	2 ¼ in	¼"-28	3⁄16 in	SPC-12-10-*	3,200 in-lb	**2APC6**	950 in-lb	**2APC9**
⅝ in x ⅞ in	1 ⅝ in	2 ½ in	¼"-28	3⁄16 in	SPC-14-10-*	3,600 in-lb	**2APE6**	1,100 in-lb	**2APE9**
¾ in	1 ½ in	2 ¼ in	¼"-28	3⁄16 in	SPC-12-12-*	3,200 in-lb	**2APD3**	950 in-lb	**2APD6**
¾ in x 1 in	1 ¾ in	3 in	¼"-28	¼ in x 3⁄16 in	SPC-16-12-*	4,000 in-lb	**2APF9**	1,200 in-lb	**2APG3**
⅞ in	1 ⅝ in	2 ½ in	¼"-28	3⁄16 in	SPC-14-14-*	3,600 in-lb	**2APF3**	1,100 in-lb	**2APF6**
1 in	1 ¾ in	3 in	¼"-28	¼ in	SPC-16-16-*	4,000 in-lb	**2APG6**	1,200 in-lb	**2APG9**
1 in x 1⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	¼ in	SPC-18-16-*	4,400 in-lb	**2APH9**	1,325 in-lb	**2APJ3**
1 in x 1¼ in	2 1⁄16 in	3 ¼ in	¼"-28	¼ in	SPC-20-16-*	5,000 in-lb	**2APK3**	1,500 in-lb	**2APK6**
1 in x 1⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	5⁄16 in x ¼ in	SPC-22-16-*	9,600 in-lb	**2APL6**	2,900 in-lb	**2APL9**
1 in x 1½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	⅜ in x ¼ in	SPC-24-16-*	10,250 in-lb	**2AUZ6**	3,100 in-lb	**2APN3**
1 ⅛ in	1 ⅞ in	3 ⅛ in	¼"-28	¼ in	SPC-18-18-*	4,400 in-lb	**2APJ6**	1,325 in-lb	**2APJ9**
1 ¼ in	2 1⁄16 in	3 ¼ in	¼"-28	¼ in	SPC-20-20-*	5,000 in-lb	**2APK9**	1,500 in-lb	**2APL3**
1 ⅜ in	2 ½ in	3 ⅝ in	5⁄16"-24	5⁄16 in	SPC-22-22-*	9,600 in-lb	**2AUY9**	2,900 in-lb	**2AUZ3**
1 ½ in	2 ⅝ in	3 ⅞ in	5⁄16"-24	⅜ in	SPC-24-24-*	10,250 in-lb	**2APN6**	3,100 in-lb	**2APN9**
1 ¾ in	3 ⅛ in	4 ½ in	⅜"-24	⅜ in	SPC-28-28-*	18,500 in-lb	**2APP3**	5,500 in-lb	**2APP6**
2 in	3 ⅜ in	4 ⅞ in	⅜"-24	½ in	SPC-32-32-*	20,250 in-lb	**2APP9**	6,100 in-lb	**1CFD3**

** To complete manufacturer model number substitute "F" for black oxide and "SS" for stainless steel.*

TB Wood's Incorporated

Sure-Flex Plus Sleeve Couplings

- Max. angular misalignment: 1° with EPDM sleeves, ¼° with Hytrel sleeves
- EPDM temp range: -30° to 275°F (-34° to 135°C)
- Hytrel temp. range: -65° to 250°F (-54° to 121°C)

Elastomer-in-shear design offers exceptional torsional flexibility to help protect equipment from misalignment, vibration, and shock loads. No lubrication required.

Note: A complete coupling consists of 2 flanges and 1 sleeve, sold separately.

Coupling Flanges

- Type 3J, 4J, and 5J: sintered carbon steel
- Type 6J and all S: cast iron
- Each has a keyway and 2 set screws

Coupling Sleeves

- JE: 1-pc. solid EPDM rubber
- JES: split 1-pc. EPDM
- E: 2-pc. EPDM rubber with retaining ring
- H: 1-pc. molded Hytrel
- HS: 2-pc. molded Hytrel

Complete Coupling Assembly

Flange

Sleeve

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled Coupling Dim. O.D.	Length
Couplings Assembled with Sleeve Type JE, JES								
3	78 in-lb	9,200 RPM	0.12 hp	1.49 hp	2.23 hp	4.46 hp	2.062 in	1.97"
4	156 in-lb	7,600 RPM	0.25 hp	2.97 hp	4.46 hp	8.91 hp	2.5 in	2.39"
Couplings Assembled with Sleeve Type E, JE, JES								
5	312 in-lb	7,600 RPM	0.5 hp	5.94 hp	8.91 hp	17.82 hp	3.25 in	2.84"
6	585 in-lb	6,000 RPM	0.93 hp	11.14 hp	16.71 hp	33.42 hp	4 in	3.50"
7	940 in-lb	5,250 RPM	1.49 hp	17.9 hp	26.85 hp	53.69 hp	4.625 in	3.94"
8	1,475 in-lb	4,500 RPM	2.34 hp	28.08 hp	42.13 hp	84.25 hp	5.45 in	4.44"
9	2,340 in-lb	3,750 RPM	3.71 hp	44.55 hp	66.83 hp	133.66 hp	6.35 in	5.06"
10	3,735 in-lb	3,600 RPM	5.93 hp	71.11 hp	106.67 hp	213.34 hp	7.5 in	5.69"
Couplings Assembled with Sleeve Type H, HS								
6	1,800 in-lb	6,000 RPM	2.9 hp	34.27 hp	51.41 hp	98.53 hp	4 in	3.50"
7	2,875 in-lb	5,250 RPM	4.6 hp	54.74 hp	82.11 hp	157.38 hp	4.625 in	3.94"
8	4,530 in-lb	4,500 RPM	7.2 hp	86.25 hp	129.38 hp	247.97 hp	5.45 in	4.44"
9	7,200 in-lb	3,750 RPM	11.4 hp	137.09 hp	205.63 hp	394.13 hp	6.35 in	5.06"
10	11,350 in-lb	3,600 RPM	18 hp	216.1 hp	324.16 hp	621.3 hp	7.5 in	5.69"

Coupling Size	Bore Dia. ½ in	⅝ in	¾ in	⅞ in	1 in	1 ⅛ in	1 ¼ in	1 ⅜ in	1 ½ in	1 ⅝ in	1 ⅞ in	2 ⅛ in	JE Sleeves Item No.	JES Sleeves Item No.	E Sleeves Item No.	H Sleeves Item No.	HS Sleeves Item No.
Coupling Flange (Complete Assembly Requires 2 Coupling Flanges and 1 Sleeve, Sold Separately)																	
Type J Flanges																	
3	**32ZR12**	**32ZR13**	**32ZR14**	**32ZR15**	—	—	—	—	—	—	—	—	**32ZP54**	**32ZP62**	—	—	—
4	**32ZR16**	**32ZR17**	**32ZR18**	**32ZR19**	**32ZR20**	—	—	—	—	—	—	—	**32ZP55**	**32ZP63**	**32ZP70**	—	—
5	**32ZR21**	**32ZR22**	**32ZR23**	**32ZR24**	**32ZR25**	**32ZR26**	—	—	—	—	—	—	**32ZP56**	**32ZP64**	**32ZP71**	—	—
6	—	**32ZR27**	**32ZR28**	**32ZR29**	**32ZR30**	**32ZR31**	**32ZR32**	**32ZR33**	—	—	—	—	**32ZP57**	**32ZP65**	**32ZP72**	—	—
Type S Flanges																	
6	—	—	—	—	**49EP53**	**49EP54**	**49EP55**	**49EP56**	**49EP57**	**49EP58**	—	—	**32ZP57**	**32ZP65**	**32ZP72**	**32ZP98**	**32ZR05**
7	—	—	—	**32ZR35**	**32ZR36**	**32ZR37**	**32ZR38**	**32ZR39**	**32ZR40**	**32ZR41**	—	—	**32ZP58**	**32ZP66**	**32ZP73**	**32ZP99**	**32ZR06**
8	—	—	—	**32ZR44**	**32ZR45**	**32ZR46**	**32ZR47**	**32ZR48**	**32ZR49**	**32ZR50**	**32ZR52**	**32ZR53**	**32ZP59**	**32ZP67**	**32ZP74**	**32ZR01**	**32ZR07**
9	—	—	—	—	—	**32ZR55**	**32ZR56**	**32ZR57**	**32ZR58**	**32ZR59**	**32ZR61**	**32ZR63**	**32ZP60**	**32ZP68**	**32ZP75**	**32ZR02**	**32ZR08**
10	—	—	—	—	—	—	—	**32ZR67**	**32ZR68**	**48VF31**	**32ZR69**	**32ZR71**	**32ZP61**	**32ZP69**	**32ZP76**	**32ZR03**	**32ZR09**

Taper Lock Coupling Hub
15E696

Coupling Hub
15E635

Standard Element

Spacer Element

TB Wood's Incorporated

Dura-Flex Shaft Couplings

- Temp. range: -40° to 200°F

Split-in-half design allows easy element installation without disturbing shaft connection; no need to move connected equipment. 100% part-for-part interchangeable with popular bonded tire couplings, with design, materials, and construction that are superior to common orange polyurethane coupling elements. The couplings accommodate shaft misalignment and minimize vibration to help prevent damage to connected equipment, and offer a large range of spacing with few parts.

Note: A complete coupling assembly consists of 2 hubs and 1 element, sold separately. Taper-Lock® coupling hubs require Taper-Lock® bushings.

Coupling Size	Taper-Lock® Coupling Hub	Taper-Lock® Required Bushing	FIXED BORE HUB Bore Dia. ⅝ in	⅞ in	1 ⅛ in	1 in	1 ⅜ in	1 ⅝ in	1 ⅞ in	2 ⅛ in	2 ⅜ in	2 ⅞ in	3 ⅜ in
Coupling Hubs (Complete Assembly Requires 2 Coupling Hubs and 1 Element)													
WE2	—	—	**15E635**	**15E637**	**15E636**	**15E638**	—	—	—	—	—	—	—
WE3	**15E696**	1008	**15E639**	**15E640**	**15E642**	**15E641**	**15E644**	—	—	—	—	—	—
WE4	**15E697**	1008	—	**15E645**	**15E646**	—	**15E648**	**15E649**	—	—	—	—	—
WE5	**15E698**	1108	—	**15E650**	**15E652**	**15E651**	**15E653**	**15E654**	**15E655**	—	—	—	—
WE10	**15E699**	1310	—	—	**15E657**	**15E656**	**15E658**	**15E659**	**15E660**	—	—	—	—
WE20	**15E701**	1610	—	—	**15E662**	—	**15E663**	**15E664**	—	**15E666**	**15E667**	—	—
WE30	**15E702**	2012	—	—	—	—	**15E668**	**15E669**	—	**15E671**	**15E672**	**15E673**	—
WE40	**15E703**	2517	—	—	—	—	—	**15E674**	—	**15E675**	**15E676**	**15E677**	**15E678**
WE50	**15E704**	2517	—	—	—	—	—	—	—	**15E680**	**15E681**	—	**15E682**
WE60	**15E705**	3020	—	—	—	—	—	—	—	**15E683**	**15E684**	—	**15E685**

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled O.D.	Standard Element Item No.	Spacer Element Item No.
Coupling Elements									
WE2	190 in.-lb.	7500	.30	3.5	5.3	11	3.7"	**15E615**	**15E625**
WE3	365 in.-lb.	7500	.58	6.7	10	20	4.2"	**15E616**	**15E626**
WE4	550 in.-lb.	7500	.88	10	15	31	4.5"	**15E617**	**15E627**
WE5	925 in.-lb.	7500	1.5	17	26	51	5.4"	**15E618**	**15E628**
WE10	1450 in.-lb.	7500	2.3	27	40	81	6.5"	**15E619**	**15E629**
WE20	2300 in.-lb.	6600/4800*	3.6	42	64	128	7.4"	**15E620**	**15E630**
WE30	3650 in.-lb.	5800/4200*	5.8	67	101	203	8.4"	**15E621**	**15E631**
WE40	5500 in.-lb.	5000/3600*	8.8	101	153	305	9.7"	**15E622**	**15E632**
WE50	7650 in.-lb.	4200/3100*	12	141	212	425	11.3"	**15E623**	**15E633**
WE60	12500 in.-lb.	3800/2800*	19	230	347	694	12.5"	**15E624**	**15E634**

** Max. rpm for spacer elements. The higher max. rpm is applicable for spacer elements when using high-speed rings.*

Find information on Keyways and Spiders on page 129.

Sintered Iron Coupling Hub

Hytrel Spider Insert

Dayton

Jaw Couplings

L-type couplings are designed for close-coupling applications.

Coupling Hubs—Maintenance-free couplings connect to drive shafts to provide dependable power transfer, even in high-temperature applications. Plated metal construction requires no lubrication. Simple design helps assure easy installation and consistent performance. Coupling keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967, GB 1095-1979 standards.

- Max. angular misalignment: 1°
- Max. parallel misalignment: 0.015"

Spider Inserts—Oil- and high temperature-resistant inserts conform to the sintered alloy couplings to help them maintain position and structure for equal power transfer.

- Temp. range: -40° to 100°C (Buna N); -51° to 121°C (Hytrel)

Note: a complete assembly requires 2 hubs and 1 spider, sold separately.

Size	Rated Torque	HP Rating @ Listed RPM 100	1200	1800	3600	Item No.
Buna N Spider Inserts (Black Color)						
L050	26 in-lb	0.04	0.49	0.73	1.47	**29HZ10**
L070	44 in-lb	0.07	0.83	1.25	2.51	**29HZ09**
L075	90 in-lb	0.14	1.67	2.51	5.03	**29HZ11**
L090/L095	315 in-lb	0.23/0.30	2.74/3.69	4.11/5.54	8.23/11.08	**29HZ08**
L099/L100	415 in-lb	0.49/0.65	5.99/7.9	8.99/11.85	17.99/23.7	**29HZ07**
L110	788 in-lb	1.25	15	22.5	45.01	**29HZ12**
L150	1,260 in-lb	1.99	23.99	35.98	71.97	**29HZ05**
L190	1,702 in-lb	2.70	32.4	48.6	97.22	**29HZ06**

Size	Rated Torque	HP Rating @ Listed RPM 100	1200	1800	3600	Item No.
Hytrel Spider Inserts (Tan Color)						
L070	114 in-lb	0.18	2.17	3.25	6.51	**29HZ16**
L075	227 in-lb	0.36	4.32	6.48	12.97	**29HZ17**
L090/L095	561 in-lb	0.63/0.89	7.63/10.68	11.45/16.02	22.90/32.04	**29HZ18**
L099/L100	1,134 in-lb	1.36/1.80	16.37/21.59	24.56/32.39	49.12/64.78	**29HZ15**
L110	2,268 in-lb	3.59	43.18	64.77	129.55	**29HZ14**
L150	3,708 in-lb	5.88	70.6	105.9	211.8	**29HZ13**
L190	4,680 in-lb	7.42	89.1	133.66	267.3	**29HZ19**

Size	Outside Dia.	Overall Length**	Bore Dia. ¼ in	5⁄16 in	⅜ in	7⁄16 in	½ in	⅝ in	¾ in	⅞ in	1 ⅛ in	1 ¼ in	1 ⅜ in	1 ½ in	1 ⅝ in	1 ¾ in	1 ⅞ in	1 in
Sintered Iron Coupling Hubs																		
L050	1.08 in	1.71 in	**29HY94** *	**29HY57** *	**29HY74** *	**29HY97** *	**29HY75** *	**29HY76** *	—	—	—	—	—	—	—	—	—	—
L095	2.1 in	2.48 in	—	—	—	**29HY59**	**29HY98** *	**29HY99**	**29HY88**	**29HY89**	**29HZ01** *	—	—	—	—	—	—	**29HY90**
L070	1.36 in	1.98 in	—	—	—	**29HY95** *	**29HY77** *	**29HY78**	**29HY79**	—	—	—	—	—	—	—	—	—
L075	1.75 in	2.12 in	—	—	—	**29HY96** *	**29HY80** *	**29HY81**	**29HY82**	**29HY83**	—	—	—	—	—	—	—	—
L090	2.1 in	2.12 in	—	—	—	—	**29HY84** *	**29HY85**	**29HY86**	**29HY87**	—	—	—	—	—	—	—	—
L110	3.31 in	4.26 in	—	—	—	—	—	—	**29HY58**	**29HY67**	**29HY69**	**29HY70**	**29HY71**	**29HY72**	**29HY73**	—	—	**29HY68**
L100	2.53 in	3.46 in	—	—	—	—	—	—	**29HZ02**	**29HZ03**	**29HY91**	**29HY92**	**29HY93**	—	—	—	—	**29HZ04**
L150	3.75 in	4.5 in	—	—	—	—	—	—	—	**29HY49**	**29HY50**	**29HY51**	**29HY52**	**29HY53**	**29HY54**	**29HY55**	**29HY56**	—
Steel Coupling Hubs																		
L190	4.5 in	4.9 in	—	—	—	—	—	—	—	—	**29HY61**	**29HY62**	**29HY63**	**29HY64**	**29HY65**	—	**29HY66**	**29HY60**

** No Keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Bost-Bronze Spider Insert

Steel Coupling Hub

Boston Gear

Jaw Couplings

Coupling Hubs—3-jaw insert design is complete with keyway and set screw. No lubrication required.

- Standard tolerance: +0.001/-0.000", all bore dimensions

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Bost-Bronz Spider Inserts—Recommended for high-torque loads, particularly at slower speeds.

- Oil-impregnated
- Temp. range: -60° to 250°F (-51° to 121°C)

Synthetic Rubber Spider Inserts—Recommended where minimal noise is desired, particularly at motor speeds.

- Oil-resistant
- Temp. range: -32° to 200°F (-35° to 93°C)

Polyurethane Spider Inserts—Recommended where moderate-to-heavy shock loads are encountered.

- Temp. range: -32° to 200°F (-35° to 93°C)

Size	Shaft Dia. Range	Rated Torque	HP Rating @ Listed RPM 100	300	690	870	1750	Item No.
Bost-Bronze Spider Inserts								
FC12	⅜ to ⅝"	200 in-lb	0.30	1.0	2.2 hp	2.8 hp	5.6 hp	**2L064**
FC15	½ to ⅞"	500 in-lb	0.80	2.4	5.5 hp	6.9 hp	13.9 hp	**2L067**
FC20	½ to 1⅛"	1,000 in-lb	1.60	4.8	10.9 hp	13.8 hp	—	**2L070**
FC25	¾ to 1⅜"	1,800 in-lb	2.90	8.6	19.7 hp	24.8 hp	—	**2L073**
FC30	1 to 1⅝"	3,200 in-lb	5.10	15.2	35.0 hp	—	—	**2L076**
FC38	1¼ to 1⅞"	7,000 in-lb	11.10	33.3	—	—	—	**2L079**
FC45	1¾ to 2⅛"	11,000 in-lb	17.50	—	—	—	—	**2L082**
Synthetic Rubber Spider Inserts								
FC12	⅜ to ⅝"	65 in-lb	0.10	0.3	0.7 hp	0.9 hp	1.8 hp	**2L065**
FC15	½ to ⅞"	125 in-lb	0.20	0.6	1.4 hp	1.7 hp	3.5 hp	**2L068**
FC20	½ to 1⅛"	250 in-lb	0.40	1.2	2.7 hp	3.5 hp	6.9 hp	**2L071**
FC25	¾ to 1⅜"	450 in-lb	0.70	2.1	4.9 hp	6.2 hp	12.5 hp	**2L074**
FC30	1 to 1⅝"	800 in-lb	1.30	3.8	8.8 hp	11.0 hp	22.2 hp	**2L077**
FC38	1¼ to 1⅞"	1,600 in-lb	2.50	7.6	17.5 hp	22.1 hp	44.4 hp	**2L080**
FC45	1¾ to 2⅛"	2,800 in-lb	4.40	13.3	30.7 hp	38.7 hp	77.7 hp	**2L083**

Size	Shaft Dia. Range	Rated Torque	HP Rating @ Listed RPM 100	300	690	870	1750	Item No.
Polyurethane Spider Inserts								
FC12	⅜ to ⅝"	125 in-lb	0.19	0.56	1.2 hp	1.6 hp	3.0 hp	**2L066**
FC15	½ to ⅞"	250 in-lb	0.37	1.1	2.5 hp	3.1 hp	6.0 hp	**2L069**
FC20	½ to 1⅛"	470 in-lb	0.70	2.1	4.6 hp	5.7 hp	11.1 hp	**2L072**
FC25	¾ to 1⅜"	845 in-lb	1.20	3.7	8.1 hp	10.1 hp	19.3 hp	**2L075**
FC30	1 to 1⅝"	1,500 in-lb	2.20	6.5	14.4 hp	17.9 hp	34.3 hp	**2L078**
FC38	1¼ to 1⅞"	3,000 in-lb	4.30	12.9	28.4 hp	35.3 hp	67.3 hp	**2L081**
FC45	1¾ to 2⅛"	5,250 in-lb	7.50	22.4	49.2 hp	61.0 hp	115.9 hp	**2L084**

Size	Outside Dia.	Overall Length*	Bore Dia. ⅜ in	7⁄16 in	½ in	9⁄16 in	⅝ in	¾ in	⅞ in	15⁄16 in	1 in	1 ⅛ in	1 3⁄16 in	1 ¼ in	1 ⅜ in	1 7⁄16 in	1 ½ in	1 9⁄16 in	1 ⅝ in	1 ¾ in	1 ⅞ in	2 in	2 ⅛ in
Steel Coupling Hubs																							
FC12	1.25 in	2.31 in	**2L028**	**2L029**	**2L030**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC15	1.5 in	2.75 in	—	—	**2L031**	**2L032**	**2L033**	**2L034**	**2L035**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC20	2 in	3.69 in	—	—	**2L036**	**2L037**	**2L038**	**2L039**	**2L040**	**2L041**	**6G234**	—	—	—	—	—	—	—	—	—	—	—	—
FC25	2.5 in	4.13 in	—	—	—	—	—	**2L042**	**2L043**	—	**2L044**	**2L045**	**2L046**	**2L047**	—	—	—	—	—	—	—	—	—
FC30	3 in	5.47 in	—	—	—	—	—	—	—	—	**2L048**	**2L049**	—	**2L050**	**2L051**	**2L052**	**2L053**	—	—	—	—	—	—
FC38	3.75 in	6.31 in	—	—	—	—	—	—	—	—	—	—	—	**2L054**	—	—	**2L055**	**2L056**	**2L057**	**2L058**	**2L059**	—	—
FC45	4.5 in	7.19 in	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**2L061**	**2L062**	**2L063**
Stainless Steel Coupling Hubs																							
SSFC12	1.25 in	2.31 in	**36GG27**	—	**36GG28**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC15	1.5 in	2.75 in	—	—	**36GG30**	—	**36GG31**	**36GG32**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SSFC20	2 in	3.69 in	—	—	—	—	**36GG34**	**36GG35**	**36GG36**	—	**36GG37**	—	—	—	—	—	—	—	—	—	—	—	—
SSFC25	2.5 in	4.13 in	—	—	—	—	—	**36GG39**	—	—	**36GG40**	—	—	**36GG41**	—	—	—	—	—	—	—	—	—
SSFC30	3 in	5.47 in	—	—	—	—	—	—	—	—	**36GG43**	—	—	**36GG44**	**36GG45**	—	—	—	—	—	—	—	—

** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

How to Determine Keyways and Spiders for Jaw Couplings

Spider Selection Procedure

1. Select a Service Factor (SF) based upon the load classification.
- Uniform = SF of 1.00
- Moderate Shock = SF of 1.75
- Heavy Shock = SF of 2.50

2. Determine design load.
- Design Torque = Application Torque (T) x SF or Design HP = Application HP x SF
- T = [HP(63025)]/rpm

3. Select coupling size that has a HP rating equal to or greater than the design load.

Keyway Chart

Use the coupling's bore diameter to determine the required keyway.

Bore	Keyway	Bore	Keyway	Bore	Keyway
½"	⅛ x ¹⁄₁₆"	1¼"	¼ x ⅛"	2⅛"	½ x ¼"
⅝"	³⁄₁₆ x ³⁄₃₂"	1⅜"	⁵⁄₁₆ x ⁵⁄₃₂"	2¼"	½ x ¼"
¾"	³⁄₁₆ x ³⁄₃₂"	1½"	⅜ x ³⁄₁₆"	2⅜"	⅝ x ⁵⁄₁₆"
⅞"	³⁄₁₆ x ³⁄₃₂"	1⅝"	⅜ x ³⁄₁₆"	2½"	⅝ x ⁵⁄₁₆"
1"	¼ x ⅛"	1¾"	⅜ x ³⁄₁₆"	2¾"	⅝ x ⁵⁄₁₆"
1⅛"	¼ x ⅛"	1⅞"	½ x ¼"	2⅞"	¾ x ⅜"
—	—	2"	½ x ¼"	3⅜"	⅞ x ⁷⁄₁₆"

Jaw Couplings

An economical choice that's 100% interchangeable with industry-standard L-jaw couplings. No lubrication required. Standard keyway on ⅝" and larger bore sizes; 4X177, 3KX86, and ¼" to ½" coupling hubs have no keyway (except where footnoted). Spiders have 0.015" max. parallel misalignment. Buna N and urethane spiders have 1° max. angular misalignment and Hytrel have ½°.

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

TB Wood's® Incorporated

Buna N Spider Inserts—Made of oil-resistant, long-life material with excellent flexibility.
- Temp. range: -40° to 212°F (-40° to 100°C)

Urethane Spider Inserts—Provide 1.5-times greater torque capability than Buna N but with less dampening. Good resistance to oil and chemicals.
- Temp. range: -30° to 160°F (-34° to 71°C)

Hytrel Spider Inserts—Provide 2.5-times greater torque capability with excellent oil and chemical resistance compared with Buna N and urethane.
- Temp. range: -60° to 250°F (-51° to 121°C)

Jaw Coupling Hub

Buna N Spider Insert

Size	Outside Dia.	Overall Length**	Bore Dia. ¼ in	⁵⁄₁₆ in	⅜ in	⁷⁄₁₆ in	½ in	⅝ in	¾ in	⅞ in	1 in	1 ⅛ in	1 ¼ in	1 ⅜ in	1 ½ in	1 ⅝ in	1 ¾ in	1 ⅞ in
Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																		
Sintered Iron																		
L050	1.08 in	1.72 in	**4X236** ‡	**1A417** ‡	**4X175** ‡	**6X070** ‡	**4X176** ‡	**4X177** ‡	—	—	—	—	—	—	—	—	—	—
L070	1.36 in	2 in	—	—	—	**5X401** ‡	**4X178** ‡	**4X179**	**4X180**	—	—	—	—	—	—	—	—	—
L075	1.75 in	2.13 in	—	—	—	**5X402** ‡	**4X181** ‡	**4X182**	**4X183**	**4X184**	—	—	—	—	—	—	—	—
L075	1.75 in	2.13 in	—	—	—	**1A073** *	**5X447** *	—	—	—	—	—	—	—	—	—	—	—
L090	2.11 in	2.13 in	—	—	—	**6JAW6** †	**4X185** ‡	**4X186**	**4X187**	**4X188**	—	—	—	—	—	—	—	—
L095	2.11 in	2.5 in	—	—	—	**1A914** †	**6X071** ‡	**6X072**	**4X191**	**4X192**	**4X193**	**6X073**	—	—	—	—	—	—
L100	2.54 in	3.5 in	—	—	—	—	—	—	**6X074**	**6X075**	**6X076**	**4X194**	**4X195**	**4X196**	—	—	—	—
L110	3.32 in	4.23 in	—	—	—	—	—	—	**1A418**	**3X708**	**3X709**	**3X710**	**3X711**	**3X712**	**3X713**	**3X714**	—	—
L150	3.75 in	4.5 in	—	—	—	—	—	—	—	**1A405**	**6JAW7**	**1A406**	**1A407**	**1A408**	**1A409**	**1A410**	**1A411**	**1A412**
L190	4.5 in	4.88 in	—	—	—	—	—	—	—	—	**1A916**	**1A917**	**1A918**	**1A919**	**1A920**	**1A921**	**6JAW8**	**1A922**
Aluminum																		
AL050	1.08 in	1.72 in	**3KX82** ‡	**3KX83** ‡	**3KX84** ‡	—	**3KX85** ‡	**3KX86** ‡	—	—	—	—	—	—	—	—	—	—
AL070	1.36 in	2 in	—	—	—	**3KX88** ‡	**3KX89** ‡	**3KX90**	**3KX91**	—	—	—	—	—	—	—	—	—
AL075	1.75 in	2.13 in	—	—	—	—	**3KX93** ‡	**3KX95**	**3KX96**	**3KX97**	—	—	—	—	—	—	—	—
AL075	1.75 in	2.13 in	—	—	—	—	**3KX94** *	—	—	—	—	—	—	—	—	—	—	—
AL090	2.11 in	2.13 in	—	—	—	—	**3KX98** ‡	**3KX99**	**3KZ01**	**3KZ02**	—	—	—	—	—	—	—	—
AL095	2.11 in	2.5 in	—	—	—	—	**3KZ10** ‡	**3KZ11**	**3KZ12**	**3KZ13**	**3KZ14**	**3KZ15**	—	—	—	—	—	—
AL100	2.54 in	3.5 in	—	—	—	—	—	—	**3KZ16**	**3KZ17**	**3KZ18**	**3KZ19**	**3KZ20**	**3KZ21**	—	—	—	—
AL110	3.32 in	4.23 in	—	—	—	—	—	—	—	—	**3KZ22**	**3KZ23**	**6JAW9**	**3KZ24**	**6JAX0**	**3KZ25**	—	—
L150	3.75 in	4.5 in	—	—	—	—	—	—	—	—	—	**48VF26**	**48VF25**	**48VF27**	**48VF24**	**48VF28**	**48VF30**	**48VF29**
Stainless Steel																		
SS075	1.75 in	2.13 in	—	—	—	—	**3KA91** *	**3KA93**	**3KA95**	—	—	—	—	—	—	—	—	—
SS095	2.11 in	2.5 in	—	—	—	—	**3KA98** *	**3KA99**	**3KB10**	**3KB11**	**3KB12**	**3KB13**	—	—	—	—	—	—
SS100	2.54 in	3.5 in	—	—	—	—	—	—	**3KB14**	**3KB15**	**3KB16**	**3KB17**	—	**3KB18**	—	—	—	—
SS110	3.32 in	4.23 in	—	—	—	—	—	—	—	—	—	—	—	**3KB21**	**3KB22**	—	—	—

** 1/8" x 1/16" keyway. † 3/32 x 3/64 keyway. ‡ No keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Size	Outside Dia.	Overall Length**	Bore Dia. 9 mm	10 mm	11 mm	12 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm	22 mm	24 mm	25 mm	28 mm	30 mm	32 mm	35 mm	38 mm	40 mm	42 mm	45 mm	48 mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																									
Sintered Iron																									
L050	27 mm	44 mm	**1CXN8**	**1CXN9**	**1CXP1**	**1CXP2**	**1CXP3**	**1CXP4**	**1CXP5**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L070	35 mm	51 mm	—	**1CXP6**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L075	44 mm	54 mm	—	—	—	—	—	—	—	—	—	**1CXP7**	**1CXP8**	**1CXP9**	—	—	—	—	—	—	—	—	—	—	—
L090	54 mm	54 mm	—	—	—	**1CXR1**	**1CXR2**	**1CXR3**	**1CXR4**	—	**1CXR5**	**1CXR6**	**1CXR7**	**1CXR8**	**1CXR9**	—	—	—	—	—	—	—	—	—	—
L095	54 mm	64 mm	—	—	—	—	**1CXT1**	**1CXT2**	**1CXT3**	**1CXT4**	**1CXT5**	**1CXT6**	**1CXT7**	**1CXT8**	**1CXT9**	**1CXU1**	**1CXU2**	—	—	—	—	—	—	—	—
L099	65 mm	73 mm	—	—	—	—	—	—	**1CXU4**	—	**1CXU5**	**1CXU6**	**1CXU7**	**1CXU8**	**1CXU9**	**1CXW1**	**1CXW2**	**1CXW3**	—	—	—	—	—	—	—
L100	65 mm	89 mm	—	—	—	—	**1CXW4**	**1CXW5**	**1CXW6**	—	**1CXW7**	**1CXW8**	**1CXW9**	**1CXY1**	**1CXY2**	**1CXY3**	**1CXY4**	**1CXY5**	**1CXY6**	**1CXY7**	—	—	—	—	—
L110	84 mm	107 mm	—	—	—	—	—	—	—	—	—	**1CXY8**	**1CXY9**	**1CXZ1**	**1CXZ2**	**1CXZ3**	**1CXZ4**	**1CXZ5**	**1CXZ6**	**1CXZ7**	**1CXZ8**	**1CXZ9**	**1CYA1**	—	—
L150	95 mm	114 mm	—	—	—	—	—	—	—	—	—	—	—	—	**1CYA2**	**1CYA3**	—	**1CYA5**	—	**1CYA6**	**1CYA7**	**1CYA8**	**1CYA9**	**1CYB1**	**1CYB2**
Cast Iron																									
L190	114 mm	124 mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**1CYB7**	—	—

Size	Outside Dia.	Overall Length**	Bore Dia. 38 mm	40 mm	42 mm	45 mm	48 mm	50 mm	55 mm	60 mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)										
Cast Iron										
L225	127 mm	137 mm	**1CYB9**	**1CYC1**	**1CYC2**	**1CYC3**	**1CYC4**	**1CYC5**	**1CYC6**	**1CYC7**

Size	Rated Torque	HP Rating @ Listed RPM 300	1200	1800	3600	Item No.
Spider Inserts						
Buna N (Black Color)						
L050	26 in-lb	0.1	0.5	0.8	1.5	**1X409**
L070	43 in-lb	0.2	0.8	1.2	2.5	**1X408**
L075	90 in-lb	0.4	1.7	2.6	5.0	**2X814**
L090/L095	144 in-lb	0.7/0.9	2.8/3.7	4.1/5.5	8.3/11	**1X407**
L099/L100	318 in-lb	2.0	7.9	12	24	**1X406**
L110	792 in-lb	3.8	15	23	46	**3X715**
L150	1,240 in-lb	6.0	24	36	72	**1A413**
L190	1,726 in-lb	8.1	32	49	98	**1A928**
L225	2,340 in-lb	11	44	67	133	**3EMN9**
Urethane (Blue Color)						
L050	39 in-lb	0.2	0.8	1.1	2.3	**3KZ67**
L070	65 in-lb	0.3	1.3	1.8	3.7	**3KX87**
L075	135 in-lb	0.6	2.5	3.9	7.7	**3KX92**
L090/L095	216 in-lb	1.0/1.4	4.1/5.6	6.2/8.3	12/17	**3KZ03**

Size	Rated Torque	HP Rating @ Listed RPM 300	1200	1800	3600	Item No.
Spider Inserts (Cont.)						
Urethane (Blue Color) (Cont.)						
L099/L100	477 in-lb	3.0	12	18	36	**3KZ04**
L110	1,188 in-lb	5.7	23	35	69	**3KZ05**
L150	1,860 in-lb	9.0	36	54	108	**3KZ06**
L190	2,592 in-lb	12	49	74	147	**3KZ07**
L225	3,510 in-lb	16	66	100	200	**3EMP1**
Hytrel (Tan Color)						
L070	114 in-lb	0.5	2.1	3.3	6.5	**1A923**
L075	227 in-lb	1.1	4.2	6.4	13	**1A924**
L090/L095	401 in-lb	1.9/2.7	7.7/11	12/16	23/32	**1A925**
L099/L100	792 in-lb	5.0	22	32	65	**1A416**
L110	2,268 in-lb	11	43	65	130	**1A415**
L150	3,708 in-lb	18	71	106	212	**1A414**
L190	4,680 in-lb	20	89	134	266	**1A927**
L225	6,228 in-lb	29	118	178	356	**3EMP2**

Selection Guide for Universal Joints

Step 1: Find the appropriate correction value for your particular application using the Correction Factor table on the the right. The table is based on "intermittent" application—more than 1 start/stop per hr., with sufficient time for cooling before starting. If your application is continuous—sustained operation with less than 1 stop/start per hr. for up to 8 hr. per day—multiply the value in the table by 2.

Step 2: Multiply your specific torque requirements by the correction value found in Step 1. (Be sure to use in.-lb.)

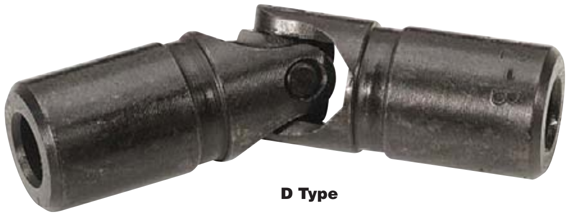
Step 3: Refer to the "Static Breaking Torque" column in the Universal Joints table to select a joint (solid type or bored type) with the same or greater torque than the in.-lb. number you calculated in Step 2.

Part Number Cross Reference Guide

Outside Dia.	SOLID TYPE Manufacturer's Model: Lovejoy	Curtis	Boston	Browning	Alves	Apex
½"	D-2	C-642	J-50	UJ-4S	S-500	300-8
⅝"	D-3	C-643	J-62	UJ-5S	S-625	300-10
¾"	D-4	C-644	J-75	UJ-6S	S-750	300-12
⅞"	D-5	C-645	J-87	UJ-7S	S-875	300-14
1"	D-6	C-646	J-100	UJ-8S	S-1000	300-16
1⅛"	D-7	C-647	—	UJ-9S	S-1125	—
1¼"	D-8	C-648	J-125	UJ-10S	S-1250	300-20
1½"	D-10	C-650	J-150	UJ-12S	S-1500	300-24
1¾"	D-11	C-651	J-175	UJ-14S	S-1750	300-28
2"	D-12	C-652	J-200	UJ-16S	S-2000	300-32
2½"	D-13	C-653	J-250	UJ-20S	S-2500	400-40
3"	D-14	C-654	J-300	UJ-24S	S-3000	400-48

Correction Factor Table

Operating RPM	Angle of Operation in Degrees: 0°	3°	5°	7°	10°	15°	20°	25°
1800	9	20	34	45	—	—	—	—
1500	8	16	28	39	—	—	—	—
1200	7	13	22	32	40	—	—	—
900	6	11	16	23	34	—	—	—
600	5	8	11	15	22	34	40	—
300	4	5	7	8	11	16	22	28
100	3	4	4	5	6	8	9	11



D Type

Needle Bearing Type

Lovejoy

Universal Joints

Special tapered shape of yokes provides exceptional strength, while allowing full free movement of joint. Standard industrial-type universal joints have pin-and-block design as well as boot-retaining grooves. For applications with angles up to 25° and speeds up to 1750 rpm (6000 rpm for needle-bearing units). Stainless Steel is grade 303.

Outside Dia.	Overall Length	Static Breaking Torque	Keyway	BORED TYPE Max. Bore *	Std. Bore	Mfr. Model	Item No.	SOLID TYPE Max. Bore *	Std. Bore	Mfr. Model	Item No.
Steel, D Type with Keyway and Setscrew											
1 in	3 ⅜ in	1,560 in-lb	⅛ x 1⁄16 in	¾ in	½ in	D-6Bkw/ss	**1CYP6**	—	—	—	—
1 ⅛ in	3 ½ in	2,880 in-lb	3⁄16 x 3⁄32 in	⅞ in	⅝ in	D-7Bkw/ss	**1CYP7**	—	—	—	—
1 ¼ in	3 ¾ in	5,220 in-lb	3⁄16 x 3⁄32 in	1 in	⅝ in	D-8B 5/8BE kw/ss	**1CYP8**	—	—	—	—
1 ¼ in	3 ¾ in	5,220 in-lb	3⁄16 x 3⁄32 in	1 in	⅝ x ¾ in	D-8B ⅝ x ¾ kw/ss	**1CYP9**	—	—	—	—
1 ¼ in	3 ¾ in	5,220 in-lb	3⁄16 x 3⁄32 in	1 in	¾ in	D-8B 3/4BE kw/ss	**1CYR1**	—	—	—	—
1 ½ in	4 ¼ in	7,920 in-lb	3⁄16 x 3⁄32 in	1 ⅛ in	⅝ in	D-10B 5/8BE kw/ss	**1CYR2**	—	—	—	—
1 ½ in	4 ¼ in	7,920 in-lb	3⁄16 x 3⁄32 in	1 ⅛ in	¾ in	D-10B 3/4BE kw/ss	**1CYR3**	—	—	—	—
Steel, D Type, No Keyway or Setscrew											
½ in	2 in	378 in-lb	—	⅜ in	¼ in	D-2B	**1L742**	⅜ in	Solid	D-2	**1L730**
⅝ in	2 ¼ in	540 in-lb	—	½ in	5⁄16 in	D-3B	**1L743**	½ in	Solid	D-3	**1L731**
¾ in	2 11⁄16 in	768 in-lb	—	⅝ in	⅜ in	D-4B	**1A929**	⅝ in	Solid	D-4	**1L732**
⅞ in	3 in	1,176 in-lb	—	11⁄16 in	7⁄16 in	D-5B	**1L744**	11⁄16 in	Solid	D-5	**1L733**
1 in	3 ⅜ in	1,560 in-lb	—	¾ in	½ in	D-6B	**1A930**	¾ in	Solid	D-6	**1L734**
1 ⅛ in	3 ½ in	2,880 in-lb	—	⅞ in	9⁄16 in	D-7B	**1L745**	⅞ in	Solid	D-7	**1L735**
1 ¼ in	3 ¾ in	5,220 in-lb	—	1 in	⅝ in	D-8B	**1A931**	1 in	Solid	D-8	**1L736**
1 ½ in	4 ¼ in	7,920 in-lb	—	1 ⅛ in	¾ in	D-10B	**1A932**	1 ⅛ in	Solid	D-10	**1L737**
1 ¾ in	5 in	10,680 in-lb	—	1 ¼ in	⅞ in	D-11B	**1L746**	1 ¼ in	Solid	D-11	**1L738**
2 in	5 7⁄16 in	15,600 in-lb	—	1 ½ in	1 in	D-12B	**1A933**	1 ½ in	Solid	D-12	**1L739**
Steel, Needle Bearing Type, No Keyway or Setscrew											
1 in	3 ⅜ in	1,150 in-lb	—	¾ in	½ in	NB-6B	**1CYR4**	—	—	—	—
1 ¼ in	3 ¾ in	2,500 in-lb	—	1 in	⅝ in	NB-8B	**1CYR5**	—	—	—	—
1 ½ in	4 ¼ in	4,400 in-lb	—	1 ⅛ in	¾ in	NB-10B	**1CYR6**	—	—	—	—
2 in	5 7⁄16 in	10,500 in-lb	—	1 ½ in	1 in	NB-12B	**1CYR7**	—	—	—	—
Stainless Steel, D Type, No Keyway or Setscrew											
¾ in	2 11⁄16 in	512 in-lb	—	⅝ in	⅜ in	D-4BSS	**1CYT4**	⅝ in	Solid	D-4SS	**1CYR8**
1 in	3 ⅜ in	1,040 in-lb	—	¾ in	½ in	D-6BSS	**1CYT5**	¾ in	Solid	D-6SS	**1CYR9**
1 ¼ in	3 ¾ in	3,480 in-lb	—	1 in	⅝ in	D-8BSS	**1CYT6**	1 in	Solid	D-8SS	**1CYT1**
1 ½ in	4 ¼ in	5,280 in-lb	—	1 ⅛ in	¾ in	D-10BSS	**1CYT7**	1 ⅛ in	Solid	D-10SS	**1CYT2**
2 in	5 7⁄16 in	10,400 in-lb	—	1 ½ in	1 in	D-12BSS	**1CYT8**	1 ½ in	Solid	D-12SS	**1CYT3**

**** Units may be re-bored to maximum diameter shown.***

Dia.	Keyway	Length 3 in Item No.	6 in Item No.	9 in Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.	48 in Item No.	60 in Item No.	72 in Item No.
304 Stainless Steel											
3/8 in	3/32 in x 3/64 in	30F850	30F851	30F852	30F853	—	30F854	30F855	30F856	30F857	30F858
1/2 in	1/8 in x 1/16 in	30F859	30F860	30F861	30F862	—	30F863	30F864	30F865	30F866	30F867
5/8 in	3/16 in x 3/32 in	30F868	30F869	30F870	30F871	—	30F872	30F873	30F874	30F875	30F876
3/4 in	3/16 in x 3/32 in	30F877	30F878	30F879	30F880	—	30F881	30F882	30F883	30F884	30F885
1 in	1/4 in x 1/8 in	30F886	30F887	30F888	30F889	—	30F890	30F891	30F892	30F893	30F894
1 3/16 in	1/4 in x 1/8 in	—	—	—	30F895	—	30F896	30F897	30F898	30F899	30F901
1 1/4 in	1/4 in x 1/8 in	30F902	30F903	30F904	30F905	—	30F906	30F907	30F908	30F909	30F910
1 7/16 in	3/8 in x 3/16 in	—	—	—	30F911	—	30F912	30F913	30F914	30F915	30F916
1 1/2 in	3/8 in x 3/16 in	30F917	30F918	30F919	30F920	—	30F921	30F922	30F923	30F924	30F925
2 in	1/2 in x 1/4 in	30F926	30F927	30F928	30F929	—	30F930	30F931	30F932	30F933	30F934
2 3/16 in	1/2 in x 1/4 in	30F935	30F936	30F937	30F938	—	30F939	30F940	30F941	30F942	30F943
2 7/16 in	5/8 in x 5/16 in	30F944	30F945	30F946	30F947	—	30F948	30F949	30F950	30F951	30F952
316 Stainless Steel											
3/8 in	3/32 in x 3/64 in	30F953	30F954	30F955	30F956	—	30F957	30F958	30F959	30F960	30F961
1/2 in	1/8 in x 1/16 in	30F962	30F963	30F964	30F965	—	30F966	30F967	30F968	30F969	30F970
5/8 in	3/16 in x 3/32 in	30F971	30F972	30F973	30F974	—	30F975	30F976	30F977	30F978	30F979
3/4 in	3/16 in x 3/32 in	30F980	30F981	30F982	30F983	—	30F984	30F985	30F986	30F987	30F988
1 in	1/4 in x 1/8 in	30F989	30F990	30F991	30F992	—	30F993	30F994	30F995	30F996	30F997
1 3/16 in	1/4 in x 1/8 in	—	—	—	30F998	—	30F999	30G001	30G002	30G003	30G004
1 1/4 in	1/4 in x 1/8 in	30G005	30G006	30G007	30G008	—	30G009	30G010	30G011	30G012	30G013
1 7/16 in	3/8 in x 3/16 in	—	—	—	30G014	—	30G015	30G016	30G017	30G018	30G019
1 1/2 in	3/8 in x 3/16 in	30G020	30G021	30G022	30G023	—	30G024	30G025	30G026	30G027	30G028
2 in	1/2 in x 1/4 in	30G029	30G030	30G031	30G032	—	30G033	30G034	30G035	30G036	30G037
2 3/16 in	1/2 in x 1/4 in	30G038	30G039	30G040	30G041	—	30G042	30G043	30G044	30G045	30G046
2 7/16 in	5/8 in x 5/16 in	30G047	30G048	30G049	30G050	—	30G051	30G052	30G053	30G054	30G055
Aluminum											
5/16 in	3/32 in x 3/64 in	—	30G056	—	30G057	—	30G058	—	—	—	—
3/8 in	3/32 in x 3/64 in	—	30G059	—	30G060	—	30G061	—	—	—	—
1/2 in	1/8 in x 1/16 in	—	30G062	—	30G063	—	30G064	—	—	—	—
5/8 in	3/16 in x 3/32 in	—	30G065	—	30G066	—	30G067	—	—	—	—
3/4 in	3/16 in x 3/32 in	—	30G068	—	30G069	—	30G070	—	—	—	—
1 in	1/4 in x 1/8 in	—	30G071	—	30G072	—	30G073	—	—	—	—
Carbon Steel Grade 1045											
5/16 in	3/32 in x 3/64 in	30F543	30F544	30F545	30F546	30F547	30F548	30F549	30F550	30F551	30F552
3/8 in	3/32 in x 3/64 in	30F553	30F554	30F555	30F556	30F557	30F558	30F559	30F560	30F561	30F562
1/2 in	1/8 in x 1/16 in	30F563	30F564	30F565	30F566	30F567	30F568	30F569	30F570	30F571	30F572
5/8 in	3/16 in x 3/32 in	30F573	30F574	30F575	30F576	30F577	30F578	30F579	30F580	30F581	30F582
11/16 in	3/16 in x 3/32 in	30F583	30F584	30F585	30F586	30F587	30F588	30F589	30F590	30F591	30F592
3/4 in	3/16 in x 3/32 in	30F593	30F594	30F595	30F596	30F597	30F598	30F599	30F601	30F602	30F603
13/16 in	3/16 in x 3/32 in	30F604	30F605	30F606	30F607	30F608	30F609	30F610	30F611	30F612	30F613
7/8 in	3/16 in x 3/32 in	30F614	30F615	30F616	30F617	30F618	30F619	30F620	30F621	30F622	30F623
15/16 in	1/4 in x 1/8 in	30F624	30F625	30F626	30F627	30F628	30F629	30F630	30F631	30F632	30F633
1 in	1/4 in x 1/8 in	30F634	30F635	30F636	30F637	30F638	30F639	30F640	30F641	30F642	30F643
1 1/8 in	1/4 in x 1/8 in	30F644	30F645	30F646	30F647	30F648	30F649	30F650	30F651	30F652	30F653
1 3/16 in	1/4 in x 1/8 in	30F654	30F655	30F656	30F657	30F658	30F659	30F660	30F661	30F662	30F663
1 1/4 in	1/4 in x 1/8 in	30F664	30F665	30F666	30F667	30F668	30F669	30F670	30F671	30F672	30F673
1 5/16 in	5/16 in x 5/32 in	30F674	30F675	30F676	30F677	30F678	30F679	30F680	30F681	30F682	30F683
1 3/8 in	5/16 in x 5/32 in	30F684	30F685	30F686	30F687	30F688	30F689	30F690	30F691	30F692	30F693
1 7/16 in	3/8 in x 3/16 in	30F694	30F695	30F696	30F697	30F698	30F699	30F701	30F702	30F703	30F704
1 1/2 in	3/8 in x 3/16 in	30F705	30F706	30F707	30F708	30F709	30F710	30F711	30F712	30F713	30F714
1 5/8 in	3/8 in x 3/16 in	30F715	30F716	30F717	30F718	30F719	30F720	30F721	30F722	30F723	30F724
1 3/4 in	3/8 in x 3/16 in	30F725	30F726	30F727	30F728	30F729	30F730	30F731	30F732	30F733	30F734
1 15/16 in	1/2 in x 1/4 in	30F735	30F736	30F737	30F738	30F739	30F740	30F741	30F742	30F743	30F744
2 in	1/2 in x 1/4 in	30F745	30F746	30F747	30F748	30F749	30F750	30F751	30F752	30F753	30F754
2 3/16 in	1/2 in x 1/4 in	30F755	30F756	30F757	30F758	30F759	30F760	30F761	30F762	30F763	30F764
2 1/4 in	1/2 in x 1/4 in	30F765	30F766	30F767	30F768	30F769	30F770	30F771	30F772	30F773	30F774
2 7/16 in	5/8 in x 5/16 in	30F775	30F776	30F777	30F778	30F779	30F780	30F781	30F782	30F783	30F784
2 1/2 in	5/8 in x 5/16 in	30F785	30F786	30F787	30F788	30F789	30F790	30F791	30F792	30F793	30F794

Dia.	Keyway	Length 300 MM Item No.	500 MM Item No.	1,000 MM Item No.	1,200 MM Item No.	1,500 MM Item No.	1,800 MM Item No.
Carbon Steel Grade 1045							
8 mm	2 mm x 1.2 mm	30F795	30F796	30F797	30F798	30F799	30F801
10 mm	3 mm x 1.8 mm	30F802	30F803	30F804	30F805	30F806	30F807
12 mm	4 mm x 2.5 mm	30F808	30F809	30F810	30F811	30F812	30F813
15 mm	5 mm x 3 mm	30F814	30F815	30F816	30F817	30F818	30F819
20 mm	6 mm x 3.5 mm	30F820	30F821	30F822	30F823	30F824	30F825
24 mm	8 mm x 4 mm	30F826	30F827	30F828	30F829	30F830	30F831
25 mm	8 mm x 4 mm	30F832	30F833	30F834	30F835	30F836	30F837
40 mm	12 mm x 5 mm	30F838	30F839	30F840	30F841	30F842	30F843
50 mm	14 mm x 5.5 mm	30F844	30F845	30F846	30F847	30F848	30F849

30F543

KEYSHAFT™

Keyed Shafting

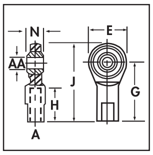
- Dia. tolerance: -0.0005"/-0.0035"
- Key width tolerance: +0.003"/-0.000"
- Straightness tolerance: 0.012" per ft.

All material is furnished as cold-drawn, ground, and polished. Manufactured to ANSI B17.1-1967, R1973 standards.

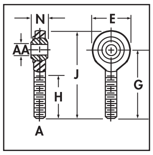
Stainless Steel, Type 304/316—Corrosion-resistant shafting is suitable for use in food processing applications. Meet ASTM A-276/479, cond. A and QQ-S-763, cond. A specifications.

Aluminum—Lightweight, screw machine-grade aluminum is ideal for robotic applications.

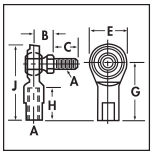
Carbon Steel, Grade 1045—Grade 1045 steel is tougher than basic low-carbon steel, but can still be easily machined for secondary operations. Meet ASTM A-108.



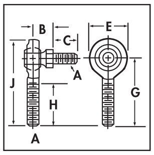
Female, Plain Ball



Male, Plain Ball



Female, Studded Ball



Male, Studded Ball

Steel Spherical Rod Ends

Rod ends allow pivoting in the housing to compensate for misalignment in industrial applications. Metric sizes are available on Grainger.com.

Note: Not for automotive or aircraft use.

Economical—Feature a precision-ground, chrome-plated hardened 52100 steel spherical ball and 1045 carbon steel body.

Stainless Steel—Feature a precision-ground, hardened 440C stainless steel ball and 300 Series stainless steel body with bonded PTFE fabric race. Excellent for low to moderate load applications where lubricating the parts is not desirable.

Self-Lubricating—Feature a precision-ground, chrome-plated hardened 52100 steel spherical ball, 1045 carbon steel body, and nylon/PTFE compound molded race. Ideal for low to moderate load applications where parts lubrication is not desirable.

Thread Size A	AA	E	Dimensions G	H	J	N	ECONOMICAL Static Radial Load	ECONOMICAL Left Hand Item No.	ECONOMICAL Right Hand Item No.	STAINLESS STEEL Static Radial Load	STAINLESS STEEL Left Hand Item No.	STAINLESS STEEL Right Hand Item No.
Female Plain Ball												
#10-32	0.190/0.192 in	0.625 in	1.062 in	0.5 in	1.375 in	0.312 in	2,079 lb	**20F960**	**20F959**	1,190 lb	**20G025**	**20G024**
¼"-28	0.250/0.252 in	0.75 in	1.312 in	0.687 in	1.687 in	0.375 in	4,197 lb	**20F962**	**20F961**	2,165 lb	**20G027**	**20G026**
5⁄16"-24	0.3125/0.3145 in	0.875 in	1.375 in	0.687 in	1.813 in	0.437 in	5,110 lb	**20F964**	**20F963**	3,278 lb	**20G029**	**20G028**
⅜"-24	0.375/0.377 in	1.0 in	1.625 in	0.812 in	2.125 in	0.5 in	6,323 lb	**20F966**	**20F965**	4,527 lb	**20G031**	**20G030**
7⁄16"-20	0.4375/0.4395 in	1.125 in	1.812 in	0.937 in	2.375 in	0.562 in	7,897 lb	**20F968**	**20F967**	5,689 lb	**20G033**	**20G032**
½"-20	0.500/0.502 in	1.312 in	2.125 in	1.062 in	2.781 in	0.625 in	10,046 lb	**20F970**	**20F969**	7,352 lb	**20G035**	**20G034**
⅝"-18	0.625/0.627 in	1.5 in	2.5 in	1.375 in	3.25 in	0.75 in	11,385 lb	**20F972**	**20F971**	8,200 lb	**20G037**	**20G036**
¾"-16	0.750/0.752 in	1.75 in	2.875 in	1.562 in	3.75 in	0.875 in	15,894 lb	**20F974**	**20F973**	11,595 lb	**20G039**	**20G038**
Male Plain Ball												
#10-32	0.190/0.192 in	0.625 in	1.25 in	0.75 in	1.563 in	0.312 in	1,558 lb	**20F976**	**20F975**	1,190 lb	**20G041**	**20G040**
¼"-28	0.250/0.252 in	0.75 in	1.562 in	1.0 in	1.937 in	0.375 in	2,835 lb	**20F978**	**20F977**	2,165 lb	**20G043**	**20G042**
5⁄16"-24	0.3125/0.3145 in	0.875 in	1.875 in	1.25 in	2.313 in	0.437 in	4,517 lb	**20F980**	**20F979**	3,278 lb	**20G045**	**20G044**
⅜"-24	0.375/0.377 in	1.0 in	1.938 in	1.25 in	2.438 in	0.5 in	6,323 lb	**20F982**	**20F981**	4,527 lb	**20G047**	**20G046**
7⁄16"-20	0.4375/0.4395 in	1.125 in	2.125 in	1.375 in	2.688 in	0.562 in	7,897 lb	**20F984**	**20F983**	5,689 lb	**20G049**	**20G048**
½"-20	0.500/0.502 in	1.312 in	2.438 in	1.5 in	3.094 in	0.625 in	10,046 lb	**20F986**	**20F985**	7,352 lb	**20G051**	**20G050**
⅝"-18	0.625/0.627 in	1.5 in	2.625 in	1.625 in	3.375 in	0.75 in	11,385 lb	**20F988**	**20F987**	8,200 lb	**20G053**	**20G052**
¾"-16	0.750/0.752 in	1.75 in	2.875 in	1.75 in	3.75 in	0.875 in	15,894 lb	**20F990**	**20F989**	11,595 lb	**20G055**	**20G054**

Thread Size A	B	C	Dimensions E	G	H	J	ECONOMICAL Static Radial Load	ECONOMICAL Left Hand Item No.	ECONOMICAL Right Hand Item No.	STAINLESS STEEL Static Radial Load	STAINLESS STEEL Left Hand Item No.	STAINLESS STEEL Right Hand Item No.
Female Studded Ball (Female With Stud)												
#10-32	0.5 in	0.5 in	0.625 in	1.062 in	0.5 in	1.375 in	2,079 lb	**20F992**	**20F991**	1,190 lb	**20G057**	**20G056**
¼"-28	0.469 in	0.562 in	0.75 in	1.312 in	0.687 in	1.687 in	4,197 lb	**20F994**	**20F993**	2,165 lb	**20G059**	**20G058**
5⁄16"-24	0.532 in	0.687 in	0.875 in	1.375 in	0.687 in	1.813 in	5,110 lb	**20F996**	**20F995**	3,278 lb	**20G061**	**20G060**
⅜"-24	0.656 in	0.906 in	1.0 in	1.625 in	0.812 in	2.125 in	6,323 lb	**20F998**	**20F997**	4,527 lb	**20G063**	**20G062**
7⁄16"-20	0.688 in	1.062 in	1.125 in	1.812 in	0.937 in	2.375 in	7,897 lb	**20G001**	**20F999**	—	—	—
½"-20	0.875 in	1.125 in	1.312 in	2.125 in	1.062 in	2.781 in	10,046 lb	**20G003**	**20G002**	7,352 lb	**20G067**	**20G066**
⅝"-18	1.0 in	1.5 in	1.5 in	2.5 in	1.375 in	3.25 in	11,385 lb	**20G005**	**20G004**	8,200 lb	**20G069**	**20G068**
¾"-16	1.188 in	1.812 in	1.75 in	2.875 in	1.562 in	3.75 in	15,894 lb	**20G007**	**20G006**	11,595 lb	**20G071**	**20G070**
Male Studded Ball (Male With Stud)												
#10-32	0.5 in	0.5 in	0.625 in	1.25 in	0.75 in	1.563 in	1,558 lb	**20G009**	**20G008**	1,190 lb	**20G073**	**20G072**
¼"-28	0.469 in	0.562 in	0.75 in	1.562 in	1.0 in	1.937 in	2,835 lb	**20G011**	**20G010**	2,165 lb	**20G075**	**20G074**
5⁄16"-24	0.532 in	0.687 in	0.875 in	1.875 in	1.25 in	2.313 in	4,517 lb	**20G013**	**20G012**	—	—	**20G076**
⅜"-24	0.656 in	0.906 in	1.0 in	1.938 in	1.25 in	2.438 in	6,323 lb	**20G015**	**20G014**	4,527 lb	**20G079**	**20G078**
7⁄16"-20	0.688 in	1.062 in	1.125 in	2.125 in	1.375 in	2.688 in	7,897 lb	**20G017**	**20G016**	5,689 lb	**20G081**	**20G080**
½"-20	0.875 in	1.125 in	1.312 in	2.438 in	1.5 in	3.094 in	10,046 lb	**20G019**	**20G018**	7,352 lb	**20G083**	**20G082**
⅝"-18	1.0 in	1.5 in	1.5 in	2.625 in	1.625 in	3.375 in	11,385 lb	**20G021**	**20G020**	8,200 lb	**20G085**	**20G084**
¾"-16	1.188 in	1.812 in	1.75 in	2.875 in	1.75 in	3.75 in	15,894 lb	**20G023**	**20G022**	—	—	**20G086**

Thread Size A	AA	E	Dimensions G	H	J	N	SELF-LUBRICATING Static Radial Load	SELF-LUBRICATING Left Hand Item No.	SELF-LUBRICATING Right Hand Item No.
Female Plain Ball									
#10-32	0.190/0.192 in	0.625 in	1.062 in	0.562 in	1.375 in	0.312 in	—	—	**20F894**
¼"-28	0.250/0.252 in	0.75 in	1.312 in	0.75 in	1.687 in	0.375 in	2,470 lb	**20F897**	**20F896**
5⁄16"-24	0.3125/0.3145 in	0.875 in	1.375 in	0.75 in	1.813 in	0.437 in	2,740 lb	**20F899**	**20F898**
⅜"-24	0.375/0.377 in	1.0 in	1.625 in	0.937 in	2.125 in	0.5 in	4,100 lb	**20F902**	**20F901**
7⁄16"-20	0.4375/0.4395 in	1.125 in	1.812 in	1.062 in	2.375 in	0.562 in	5,350 lb	**20F904**	**20F903**
½"-20	0.500/0.502 in	1.312 in	2.125 in	1.187 in	2.781 in	0.625 in	6,430 lb	**20F906**	**20F905**
⅝"-18	0.625/0.627 in	1.5 in	2.5 in	1.5 in	3.25 in	0.75 in	8,300 lb	**20F908**	**20F907**
¾"-16	0.750/0.752 in	1.75 in	2.875 in	1.75 in	3.75 in	0.875 in	10,900 lb	**20F910**	**20F909**
Male Plain Ball									
#10-32	0.190/0.192 in	0.625 in	1.25 in	0.75 in	1.563 in	0.312 in	1,210 lb	**20F912**	**20F911**
¼"-28	0.250/0.252 in	0.75 in	1.562 in	1.0 in	1.937 in	0.375 in	2,470 lb	**20F914**	**20F913**
5⁄16"-24	0.3125/0.3145 in	0.875 in	1.875 in	1.25 in	2.313 in	0.437 in	2,740 lb	**20F916**	**20F915**
⅜"-24	0.375/0.377 in	1.0 in	1.938 in	1.25 in	2.438 in	0.5 in	4,210 lb	**20F918**	**20F917**
7⁄16"-20	0.4375/0.4395 in	1.125 in	2.125 in	1.375 in	2.688 in	0.562 in	5,350 lb	**20F920**	**20F919**
½"-20	0.500/0.502 in	1.312 in	2.438 in	1.5 in	3.094 in	0.625 in	6,430 lb	**20F922**	**20F921**
⅝"-18	0.625/0.627 in	1.5 in	2.625 in	1.625 in	3.375 in	0.75 in	8,300 lb	**20F924**	**20F923**
¾"-16	0.750/0.752 in	1.75 in	2.875 in	1.75 in	3.75 in	0.875 in	10,900 lb	**20F926**	**20F925**

Thread Size A	B	C	Dimensions E	G	H	J	SELF-LUBRICATING Static Radial Load	SELF-LUBRICATING Left Hand Item No.	SELF-LUBRICATING Right Hand Item No.
Female Studded Ball (Female With Stud)									
#10-32	0.5 in	0.5 in	0.625 in	1.062 in	0.562 in	1.375 in	1,210 lb	**20F928**	**20F927**
¼"-28	0.469 in	0.562 in	0.75 in	1.312 in	0.75 in	1.687 in	2,470 lb	**20F930**	**20F929**
5⁄16"-24	0.532 in	0.687 in	0.875 in	1.375 in	0.75 in	1.813 in	2,740 lb	**20F932**	**20F931**
⅜"-24	0.656 in	0.906 in	1.0 in	1.625 in	0.937 in	2.125 in	4,100 lb	**20F934**	**20F933**
7⁄16"-20	0.688 in	1.062 in	1.125 in	1.812 in	1.062 in	2.375 in	5,350 lb	**20F936**	**20F935**
½"-20	0.875 in	1.125 in	1.312 in	2.125 in	1.187 in	2.781 in	6,430 lb	**20F938**	**20F937**
⅝"-18	1.0 in	1.5 in	1.5 in	2.5 in	1.5 in	3.25 in	8,300 lb	**20F940**	**20F939**
¾"-16	1.188 in	1.812 in	1.75 in	2.875 in	1.75 in	3.75 in	10,900 lb	**20F942**	**20F941**
Male Studded Ball (Male With Stud)									
#10-32	0.5 in	0.5 in	0.625 in	1.25 in	0.75 in	1.563 in	1,210 lb	**20F944**	**20F943**
¼"-28	0.469 in	0.562 in	0.75 in	1.562 in	1.0 in	1.937 in	2,470 lb	**20F946**	**20F945**
5⁄16"-24	0.532 in	0.687 in	0.875 in	1.875 in	1.25 in	2.313 in	2,740 lb	**20F948**	**20F947**
⅜"-24	0.656 in	0.906 in	1.0 in	1.938 in	1.25 in	2.438 in	4,210 lb	**20F950**	**20F949**
7⁄16"-20	0.688 in	1.062 in	1.125 in	2.125 in	1.375 in	2.688 in	5,350 lb	**20F952**	**20F951**
½"-20	0.875 in	1.125 in	1.312 in	2.438 in	1.5 in	3.094 in	6,430 lb	**20F954**	**20F953**
⅝"-18	1.0 in	1.5 in	1.5 in	2.625 in	1.625 in	3.375 in	8,300 lb	**20F956**	**20F955**
¾"-16	1.188 in	1.812 in	1.75 in	2.875 in	1.75 in	3.75 in	10,900 lb	**20F958**	**20F957**

Bearing Selection Guide

Factors to consider include unit costs, desired life, load ratings, operating environment, maintenance, and mounting configurations. Testing in the actual operating environment is recommended to determine if a particular bearing unit is suitable for a given application.

LOAD RATINGS FOR BALL BEARING UNITS

Dynamic load capacity is the max. constant radial load that a bearing can support for 1 million revolutions (at 33⅓ rpm for 500 hr.). **Static load capacity** is the max. static load (nonrotating shaft) that a bearing can support without causing permanent deformation. **Max. speed ratings** are based on light loads and expressed by bore size: ½" = 6000 rpm, ⅝" = 5000 rpm, ¾" = 4500 rpm, 1" = 3500 rpm.

LOAD RATINGS FOR BRONZE AND UHMW-PE BEARING UNITS

Bronze and UHMW-PE bearings do not have moving parts and allow for smooth, low-friction motion between 2 solid surfaces. Their load capacities are expressed as a PV factor, which is calculated by multiplying P, the max. pressure in psi on the bearing surface, by V, the max. sliding velocity in surface ft. per min. on the shaft. Actual **PV factor** should not exceed rated max. PV. P and V are calculated using the following formulas:

$$P = \frac{\text{Bearing Load}}{\text{Bearing Dia. X Bearing Length}}$$

V = Shaft Diameter x Shaft rpm x 0.262*

* 0.262 is the constant used for sleeve bearings (dimensions in inches).

Dayton

Pillow Block and Flange Mount Bearings

BALL BEARINGS

Prelubricated ABEC-1 tolerances. Wide inner race with setscrews. Neoprene seal. Temp. range: -30° to 200°F.

Rigid Type—Strong load support in limited mounting area.

Self-Aligning Type—Corrects misalignment up to 2°. Rustproof plated finish. Base mount is 2-pc. and flange mount is 1-pc.

BRONZE BEARINGS

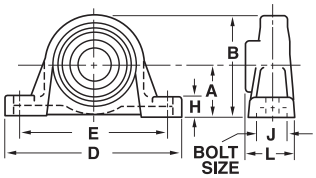
Porous for continuous lubrication. Use in lighter-duty mounted bearing applications. Temp. range: -5° to 220°F.

Rigid Type (Pillow Block Only)—Press-fit plain sleeve bearings. Oiler hole for lubrication.

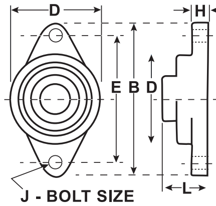
Self-Aligning Type—Press-fit flanged sleeve bearings. Rustproof plated finish. Large, felt-lined oil reservoir. Oil fillers on base-mount models can be rotated to 4 different positions. Flange-mount models have oil filler at 45° from bolt holes.

UHMW-PE BEARINGS

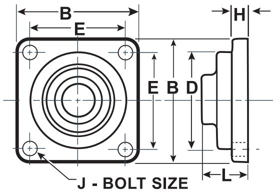
For washdown applications in wet/harsh environments. Self-lubricating. Interchangeable with most metal units. Temp. range: -60° to 180°F. USDA and FDA approved.



Pillow Block



2-Bolt Flange Mount



4-Bolt Flange Mount

A.

B.

C.

D.

E.

F.

G.

H.

I.

J.

K.

L.

M.

N.

Bore Dia.	Dynamic Load Cap.†	Static Load Cap.	Dimensions A	B	D	E	H	J	L	Item No.
A. Pillow Block Ball Bearing, Die Cast Housing, Rigid Type										
½ in	2,877 lb	1,479 lb	1 ⅛ in	2 5⁄16 in	4 ¼ in	3 ⅜ in	7⁄16 in	⅜ in	1 5⁄16 in	**4X723**
⅝ in	2,877 lb	1,479 lb	1 ⅛ in	2 5⁄16 in	4 ¼ in	5 ⅛ in	7⁄16 in	⅜ in	1 5⁄16 in	**4X724**
¾ in	2,877 lb	1,479 lb	1 ⅛ in	2 5⁄16 in	4 ¼ in	3 ⅜ in	7⁄16 in	⅜ in	1 5⁄16 in	**4X725**
1 in	3,153 lb	1,768 lb	1 ¼ in	2 ½ in	4 ⅝ in	3 ⅝ in	½ in	⅜ in	1 ⅜ in	**4X726**
B. Pillow Block Ball Bearing, Pressed Steel Housing, Self-Aligning Type, Standard										
½ in	2,152 lb	1,075 lb	15⁄16 in	1 ⅞ in	4 3⁄16 in	3 3⁄16 in	7⁄64 in	7⁄16 in	1 3⁄16 in	**2X897**
⅝ in	2,152 lb	1,075 lb	15⁄16 in	1 ⅞ in	4 3⁄16 in	3 3⁄16 in	7⁄64 in	7⁄16 in	1 3⁄16 in	**2X898**
¾ in	2,877 lb	1,479 lb	1 3⁄16 in	2 5⁄16 in	4 9⁄16 in	3 7⁄16 in	⅛ in	7⁄16 in	1 ⅜ in	**2X899**
1 in	3,153 lb	1,768 lb	1 3⁄16 in	2 5⁄16 in	4 9⁄16 in	3 7⁄16 in	⅛ in	7⁄16 in	1 7⁄16 in	**2X900**
C. Pillow Block Ball Bearing, Pressed Steel Housing, Self-Aligning Type, Heavy Gauge										
½ in	2,877 lb	1,479 lb	1 5⁄16 in	2 ⅝ in	4 7⁄16 in	3 7⁄16 in	9⁄64 in	7⁄16 in	1 11⁄16 in	**2X403**
⅝ in	2,877 lb	1,479 lb	1 5⁄16 in	2 ⅝ in	4 7⁄16 in	3 7⁄16 in	9⁄64 in	7⁄16 in	1 11⁄16 in	**2X404**
¾ in	2,877 lb	1,479 lb	1 5⁄16 in	2 ⅝ in	4 7⁄16 in	3 7⁄16 in	9⁄64 in	7⁄16 in	1 11⁄16 in	**2X405**
1 in	3,153 lb	1,768 lb	1 ½ in	2 ⅞ in	5 3⁄16 in	4 in	9⁄64 in	½ in	1 ⅞ in	**2X406**
D. Pillow Block Bronze Bearing, Die Cast Housing, Rigid Type										
½ in	50,000 lb	—	1 in	1 ⅞ in	3 9⁄16 in	2 13⁄16 in	⅝ in	5⁄16 in	1 ⅛ in	**1F630** * ‡
⅝ in	50,000 lb	—	1 in	1 ⅞ in	3 9⁄16 in	2 13⁄16 in	⅝ in	5⁄16 in	1 ⅛ in	**1F628** * ‡
¾ in	50,000 lb	—	1 in	1 ⅞ in	3 9⁄16 in	2 13⁄16 in	⅝ in	5⁄16 in	1 ⅛ in	**1F626** * ‡
E. Pillow Block Bronze Bearing, Pressed Steel Housing, Self-Aligning Type										
½ in	50,000 lb	—	1 in	2 3⁄32 in	4 in	3 in	9⁄64 in	7⁄16 in	1 ⅛ in	**2X567** * ‡
⅝ in	50,000 lb	—	1 in	2 3⁄32 in	4 in	3 in	9⁄64 in	7⁄16 in	1 ⅛ in	**2X529** * ‡
¾ in	50,000 lb	—	1 in	2 3⁄32 in	4 in	3 in	9⁄64 in	7⁄16 in	1 ⅛ in	**2X530** * ‡
1 in	50,000 lb	—	1 in	2 3⁄32 in	4 in	3 in	9⁄64 in	7⁄16 in	1 ⅛ in	**2X531** * ‡
F. Pillow Block UHMW-PE Bearing, Solid Housing, Rigid Type										
⅝ in	3000 lb	—	1 3⁄16 in	2 3⁄16 in	4 ¾ in	3 ⅜ in	⅝ in	7⁄16 in	1 ½ in	**1F622** * ‡
¾ in	3000 lb	—	1 5⁄16 in	2 ½ in	5 ¼ in	3 ¾ in	⅝ in	7⁄16 in	1 ½ in	**1F620** * ‡
1 in	3000 lb	—	1 7⁄16 in	2 ¾ in	5 ½ in	4 in	¾ in	7⁄16 in	1 ½ in	**1F618** * ‡
G. Pillow Block UHMW-PE Bearing, Pressed Steel Housing, Self-Aligning Type										
½ in	3000 lb	—	1 in	2 in	4 in	3 in	⅛ in	⅜ in	1 ⅛ in	**1F638** * ‡
⅝ in	3000 lb	—	1 in	2 in	4 in	3 in	⅛ in	⅜ in	1 ⅛ in	**1F636** * ‡
¾ in	3000 lb	—	1 in	2 in	4 in	3 in	⅛ in	⅜ in	1 ⅛ in	**1F634** * ‡
1 in	3000 lb	—	1 in	2 in	4 in	3 in	⅛ in	⅜ in	1 ⅛ in	**1F632** * ‡

** To calculate PV factor, see bearing selection guide. † Load capacities are based on the ball bearing inserts in each unit. ‡ Max PV Dynamic Load Cap.*

Bore Dia.	Dynamic Load Cap.†	Static Load Cap.	Dimensions A	B	D	E	H	J	L	Item No.
H. 2-Bolt Flange Mount Ball Bearing, Die Cast Housing, Rigid Type										
½ in	2,152 lb	1,075 lb	—	3 ¼ in	2 in	2 ½ in	½ in	9⁄32 Sq.	1 1⁄16 in	**1A396**
⅝ in	2,152 lb	1,075 lb	—	3 ¼ in	2 in	2 ½ in	½ in	9⁄32 Sq.	1 1⁄16 in	**1A397**
¾ in	2,877 lb	1,479 lb	—	3 ⅝ in	2 ¼ in	2 13⁄16 in	½ in	11⁄32 Sq.	1 ⅛ in	**1A398**
1 in	3,153 lb	1,768 lb	—	3 ⅞ in	2 ½ in	3 in	½ in	11⁄32 Sq.	1 3⁄16 in	**1A399**
I. 2-Bolt Flange Mount Ball Bearing, Pressed Steel Housing, Self-Aligning Type										
½ in	2,152 lb	1,075 lb	—	4 in	2 in	3 in	1⁄16 in	⅜ in	1 in	**4X727**
⅝ in	2,152 lb	1,075 lb	—	4 in	2 in	3 in	1⁄16 in	⅜ in	1 in	**4X728**
¾ in	2,877 lb	1,479 lb	—	4 ½ in	2 ½ in	3 ⅜ in	1⁄16 in	7⁄16 in	1 ⅛ in	**4X729**
1 in	3,153 lb	1,768 lb	—	4 ½ in	2 ½ in	3 ⅜ in	1⁄16 in	7⁄16 in	1 ⅛ in	**4X730**
J. 2-Bolt Flange Mount Ball Bearing, Pressed Steel Housing, Self-Aligning Type, Heavy Gauge										
½ in	2,877 lb	1,479 lb	—	5 in	3 in	4 in	3⁄32 in	7⁄16 in	1 ¾ in	**1A400**
⅝ in	2,877 lb	1,479 lb	—	5 in	3 in	4 in	3⁄32 in	7⁄16 in	1 ¾ in	**1A401**
¾ in	2,877 lb	1,479 lb	—	5 in	3 in	4 in	3⁄32 in	7⁄16 in	1 ¾ in	**1A402**
1 in	3,153 lb	1,768 lb	—	5 in	3 in	4 in	3⁄32 in	7⁄16 in	1 ¾ in	**1A403**
K. 2-Bolt Flange Mount Bronze Bearing, Pressed Steel Housing, Self-Aligning Type										
½ in	50,000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**4X815** * ‡
⅝ in	50,000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**4X816** * ‡
¾ in	50,000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**4X817** * ‡
1 in	50,000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**4X818** * ‡
L. 2-Bolt Flange Mount UHMW-PE Bearing, Pressed Steel Housing, Self-Aligning Type										
½ in	3000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**1F576** * ‡
⅝ in	3000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**1F574** * ‡
¾ in	3000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**1F572** * ‡
1 in	3000 lb	—	—	4 ⅜ in	2 ¾ in	3 ⅜ in	⅛ in	7⁄16 in	1 ⅛ in	**1F570** * ‡
M. 4-Bolt Flange Mount Ball Bearing, Die Cast Housing, Rigid Type										
½ in	2,152 lb	1,075 lb	—	3 in	1 ⅞ in	2 ⅛ in	⅜ in	⅜ in	1 1⁄32 in	**1F552** *
⅝ in	2,152 lb	1,075 lb	—	3 in	1 ⅞ in	2 ⅛ in	⅜ in	⅜ in	1 1⁄32 in	**1F550** *
¾ in	2,877 lb	1,479 lb	—	3 ⅜ in	2 3⁄16 in	2 ½ in	7⁄16 in	⅜ in	1 ⅛ in	**1F548** *
1 in	3,153 lb	1,768 lb	—	3 ¾ in	2 ⅜ in	2 ¾ in	7⁄16 in	7⁄16 in	1 ¼ in	**1F546** *
N. 4-Bolt Flange Mount UHMW-PE Bearing, Solid Housing, Rigid Type										
½ in	3000 lb	—	—	3 in	—	2 ⅛ in	—	7⁄16 in	1 ¼ in	**1F560** * ‡
⅝ in	3000 lb	—	—	3 in	—	2 ⅛ in	—	7⁄16 in	1 ¼ in	**1F558** * ‡
¾ in	3000 lb	—	—	3 ⅜ in	—	2 ½ in	—	7⁄16 in	1 ¼ in	**1F556** * ‡
1 in	3000 lb	—	—	3 ¾ in	—	2 ¾ in	—	7⁄16 in	1 ¼ in	**1F554** * ‡

Pillow Block

4-Bolt Flange

2-Bolt Flange

Mounted Ball Bearings

NTN

- Temp. range: -20° to 250°F

Feature cast-iron housings. Elastomeric seal with "flinger" preserves lubricant and keeps contaminants out. Ultra-Class units have solid base construction for optimum load and shock stability and black oxide coating for superior environmental protection.

Bore Dia.	Mounting Surface-to-Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. H	W	L	Mfr. Model	Item No.
Pillow Block, Set Screw								
Light Duty Ultra-Class™								
1/2 in	1 3/16 in	3 5/8 in	3/8 in	2 7/16 in	1 1/2 in	5 in	ARP-1/2	**5ZMX1**
5/8 in	1 3/16 in	3 5/8 in	3/8 in	2 7/16 in	1 1/2 in	5 in	ARP-5/8	**5ZMX3**
3/4 in	1 5/16 in	3 25/32 in	3/8 in	2 9/16 in	1 1/2 in	5 in	ARP-3/4	**5ZMX2**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	ARP-1	**5ZMW9**
1 1/4 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	ARP-1.1/4S	**5ZMX0**
Standard Duty General Line								
1/2 in	1 3/16 in	3 3/4 in	3/8 in	2 7/16 in	1 1/2 in	5 in	UCP201-008D1	**5ZUF7**
5/8 in	1 3/16 in	3 3/4 in	3/8 in	2 7/16 in	1 1/2 in	5 in	UCP202-010D1	**5ZUF8**
3/4 in	1 5/16 in	3 3/4 in	3/8 in	2 9/16 in	1 1/2 in	5 in	UCP204-012D1	**5ZUF9**
7/8 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP205-014D1	**5ZUG0**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP205-100D1	**5ZUG1**
1 1/8 in	1 11/16 in	4 3/4 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP206-102D1	**5ZUG2**
1 3/16 in	1 11/16 in	4 3/4 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP206-103D1	**5ZUG3**
1 1/4 in	1 11/16 in	4 3/4 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP206-104D1	**5ZUG4**
1 1/4 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP207-104D1	**5ZUG5**
1 3/8 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP207-106D1	**5ZUG6**
1 7/16 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP207-107D1	**5ZUG7**
1 1/2 in	1 15/16 in	5 13/32 in	1/2 in	3 27/32 in	2 1/8 in	1 15/16 in	UCP208-108D1	**5ZUG8**
1 5/8 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP209-110D1	**5ZUG9**
1 11/16 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP209-111D1	**5ZUH0**
1 3/4 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP209-112D1	**5ZUH1**
1 15/16 in	2 1/4 in	6 1/4 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCP210-115D1	**5ZUH2**
2 in	2 1/2 in	6 23/32 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCP211-200D1	**5ZUH3**
2 3/16 in	2 1/2 in	6 23/32 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCP211-203D1	**5ZUH4**
2 7/16 in	2 3/4 in	7 1/4 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UCP212-207D1	**5ZUH5**
Standard Duty Ultra-Class								
1/2 in	1 3/16 in	3 5/8 in	3/8 in	2 7/16 in	1 1/2 in	5 in	UCP-1/2M	**5RYT8**
5/8 in	1 3/16 in	3 5/8 in	3/8 in	2 7/16 in	1 1/2 in	5 in	UCP-5/8M	**5RYU8**
3/4 in	1 5/16 in	3 25/32 in	3/8 in	2 9/16 in	1 1/2 in	5 in	UCP-3/4M	**5RYU7**
7/8 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP-7/8M	**5RYU9**
15/16 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP-15/16M	**5RYT9**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP-1M	**5RYR3**
1 1/8 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP-1.1/8M	**5RYR7**
1 3/16 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP-1.3/16M	**5RYT0**
1 1/4 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP-1.1/4SM	**5RYR6**
1 1/4 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP-1.1/4M	**5RYR5**
1 5/16 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP-1.5/16M	**5RYT3**
1 3/8 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP-1.3/8M	**5RYT2**
1 7/16 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP-1.7/16M	**5RYT5**
1 1/2 in	1 15/16 in	5 3/8 in	1/2 in	3 27/32 in	2 1/8 in	7 1/4 in	UCP-1.1/2M	**5RYR4**
1 5/8 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP-1.5/8M	**5RYT4**
1 11/16 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP-1.11/16M	**5RYR8**
1 3/4 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCP-1.3/4M	**5RYT1**
1 7/8 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCP-1.7/8M	**5RYT6**
1 15/16 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCP-1.15/16M	**5RYR9**
2 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCP-2SM	**5RYU5**
2 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCP-2M	**5RYU0**
2 3/16 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCP-2.3/16M	**5RYU2**
2 3/8 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UCP-2.3/8M	**5RYU3**
2 7/16 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UCP-2.7/16M	**5RYU4**
2 15/16 in	3 1/4 in	8 1/2 in	3/4 in	6 13/32 in	2 29/32 in	10 13/16 in	UCP-2.15/16M	**5RYU1**
3 in	3 1/4 in	8 1/2 in	3/4 in	6 13/32 in	2 29/32 in	10 13/16 in	UCP-3M	**5RYU6**
20 mm	1 5/16 in	3 25/32 in	3/8 in	2 9/16 in	1 1/2 in	5 in	UCP-20	**46E583**
25 mm	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UCP-25	**46E584**
30 mm	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCP-30	**46E585**
35 mm	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCP-35	**46E586**
Pillow Block, Low Base, Set Screw								
Standard Duty Ultra-Class								
1/2 in	1 1/16 in	3 5/8 in	3/8 in	2 1/8 in	1 3/8 in	4 3/4 in	UCPL-1/2M	**5RYW2**
5/8 in	1 1/16 in	3 5/8 in	3/8 in	2 1/8 in	1 3/8 in	4 3/4 in	UCPL-5/8M	**5RYX2**
3/4 in	1 1/4 in	3 25/32 in	3/8 in	2 17/32 in	1 1/2 in	5 in	UCPL-3/4M	**5RYX1**
7/8 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UCPL-7/8M	**5RYX3**
1 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UCPL-1M	**5RYV0**
1 1/8 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UCPL-1.1/8M	**5RYV3**
1 3/16 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UCPL-1.3/16M	**5RYV6**
1 1/4 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UCPL-1.1/4SM	**5RYV2**
1 1/4 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UCPL-1.1/4M	**5RYV1**
1 5/16 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UCPL-1.5/16M	**5RYV9**
1 3/8 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UCPL-1.3/8M	**5RYV8**
1 7/16 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UCPL-1.7/16M	**5RYW0**
Pillow Block, Low Base, Set Screw (Cont.)								
Standard Duty Ultra-Class (Cont.)								
1 11/16 in	2 1/8 in	5 7/8 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UCPL-1.11/16M	**5RYV4**
1 3/4 in	2 1/8 in	5 7/8 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UCPL-1.3/4M	**5RYV7**
1 15/16 in	2 3/16 in	6 7/32 in	5/8 in	4 13/32 in	2 3/8 in	8 1/8 in	UCPL-1.15/16M	**5RYV5**
2 in	2 7/16 in	6 15/16 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	UCPL-2M	**5RYW4**
2 3/16 in	2 7/16 in	6 15/16 in	5/8 in	4 7/8 in	2 3/4 in	8 5/8 in	UCPL-2.3/16M	**5RYW8**
2 7/16 in	2 11/16 in	7 13/32 in	5/8 in	5 11/32 in	2 3/4 in	9 1/2 in	UCPL-2.7/16M	**5RYX0**
2 15/16 in	3 5/16 in	9 1/2 in	3/4 in	6 1/2 in	2 29/32 in	12 in	UCPL-2.15/16M	**5RYW7**
Pillow Block, Eccentric Locking Collar								
Standard Duty Ultra-Class								
3/4 in	1 5/16 in	3 25/32 in	3/8 in	2 9/16 in	1 1/2 in	5 in	UELP-3/4M	**5RZH6**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 25/32 in	1 1/2 in	5 1/2 in	UELP-1M	**5RZF2**
1 1/8 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UELP-1.1/8M	**5RZF6**
1 3/16 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UELP-1.3/16M	**5RZF9**
1 1/4 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UELP-1.1/4M	**5RZF4**
1 3/8 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UELP-1.3/8M	**5RZG1**
1 7/16 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UELP-1.7/16M	**5RZG3**
1 1/2 in	1 15/16 in	5 3/8 in	1/2 in	3 27/32 in	2 1/8 in	7 1/4 in	UELP-1.1/2M	**5RZF3**
1 9/16 in	1 15/16 in	5 3/8 in	1/2 in	3 27/32 in	2 1/8 in	7 1/4 in	UELP-1.9/16M	**5RZG5**
1 5/8 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UELP-1.5/8M	**5RZG2**
1 11/16 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UELP-1.11/16M	**5RZF7**
1 15/16 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UELP-1.15/16M	**5RZF8**
2 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UELP-2SM	**5RZH4**
2 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UELP-2M	**5RZG8**
2 3/16 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UELP-2.3/16M	**5RZH1**
2 3/8 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UELP-2.3/8M	**5RZH2**
2 7/16 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UELP-2.7/16M	**5RZH3**
2 15/16 in	3 1/4 in	8 1/2 in	3/4 in	6 13/32 in	2 29/32 in	10 13/16 in	UELP-2.15/16M	**5RZH0**
3 in	3 1/4 in	8 1/2 in	3/4 in	6 13/32 in	2 29/32 in	10 13/16 in	UELP-3M	**5RZH5**
Pillow Block, Low Base, Eccentric Locking Collar								
Standard Duty General Line								
3/4 in	1 1/4 in	3 3/4 in	3/8 in	2 17/32 in	1 1/2 in	5 in	UELPL204-012D1W3	**5ZUT4**
1 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UELPL205-100D1W3	**5ZUT5**
1 1/8 in	1 9/16 in	4 3/4 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UELPL206-102D1W3	**5ZUT6**
1 3/16 in	1 9/16 in	4 3/4 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UELPL206-103D1W3	**5ZUT7**
1 1/4 in	1 13/16 in	5 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELP207-104D1W3	**5ZUT8**
1 3/8 in	1 13/16 in	5 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELPL207-106D1W3	**5ZUT9**
1 7/16 in	1 13/16 in	5 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELPL207-107D1W3	**5ZUU0**
1 1/2 in	1 15/16 in	5 13/32 in	1/2 in	3 27/32 in	2 1/8 in	7 1/4 in	UELPL208-108D1W3	**5ZUU1**
1 11/16 in	2 1/16 in	5 3/4 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UELPL209-111D1W3	**5ZUU2**
1 3/4 in	2 1/16 in	5 3/4 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UELPL209-112D1W3	**5ZUU3**
1 15/16 in	2 3/16 in	6 1/4 in	5/8 in	4 13/32 in	2 3/8 in	8 1/8 in	UELPL210-115D1W3	**5ZUU4**
2 in	2 7/16 in	6 23/32 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	UELPL211-200D1W3	**5ZUU5**
2 3/16 in	2 7/16 in	6 23/32 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	UELPL211-203D1W3	**5ZUU6**
2 7/16 in	2 11/16 in	7 1/4 in	5/8 in	5 11/32 in	2 3/4 in	9 1/2 in	UELPL212-207D1W3	**5ZUU7**
Standard Duty Ultra-Class								
5/8 in	1 1/16 in	3 5/8 in	3/8 in	2 1/8 in	1 3/8 in	4 3/4 in	UELPL-5/8M	**5RZL4**
3/4 in	1 1/4 in	3 25/32 in	3/8 in	2 17/32 in	1 1/2 in	5 in	UELPL-3/4M	**5RZL3**
7/8 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UELPL-7/8M	**5RZL5**
15/16 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UELPL-15/16M	**5RZK3**
1 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 1/2 in	5 1/2 in	UELPL-1M	**5RZH9**
1 1/8 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UELPL-1.1/8M	**5RZJ2**
1 3/16 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UELPL-1.3/16M	**5RZJ5**
1 1/4 in	1 9/16 in	4 5/8 in	1/2 in	3 5/32 in	1 7/8 in	6 1/2 in	UELPL-1.1/4SM	**5RZJ1**
1 1/4 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELPL-1.1/4M	**5RZJ0**
1 3/8 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELPL-1.3/8M	**5RZJ7**
1 7/16 in	1 13/16 in	5 1/8 in	1/2 in	3 19/32 in	1 7/8 in	6 9/16 in	UELPL-1.7/16M	**5RZK0**
1 5/8 in	2 1/8 in	5 7/8 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UELPL-1.5/8M	**5RZJ9**
1 11/16 in	2 1/8 in	5 7/8 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UELPL-1.11/16M	**5RZJ3**
1 3/4 in	2 1/8 in	5 7/8 in	1/2 in	4 3/32 in	2 1/8 in	7 15/32 in	UELPL-1.3/4M	**5RZJ6**
1 7/8 in	2 3/16 in	6 7/32 in	5/8 in	4 13/32 in	2 3/8 in	8 1/8 in	UELPL-1.7/8M	**5RZK1**
1 15/16 in	2 3/16 in	6 7/32 in	5/8 in	4 13/32 in	2 3/8 in	8 1/8 in	UELPL-1.15/16M	**5RZJ4**
2 in	2 7/16 in	6 15/16 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	UELPL-2M	**5RZK4**
2 3/16 in	2 7/16 in	6 15/16 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	UELPL-2.3/16M	**5RZK9**
2 1/4 in	2 11/16 in	7 13/32 in	5/8 in	5 11/32 in	2 3/4 in	9 1/2 in	UELPL-2.1/4M	**5RZK5**
2 3/8 in	2 11/16 in	7 13/32 in	5/8 in	5 11/32 in	2 3/4 in	9 1/2 in	UELPL-2.3/8M	**5RZL0**
2 7/16 in	2 11/16 in	7 13/32 in	5/8 in	5 11/32 in	2 3/4 in	9 1/2 in	UELPL-2.7/16M	**5RZL1**
2 11/16 in	3 in	8 in	3/4 in	6 1/16 in	2 27/32 in	10 15/32 in	UELPL-2.11/16M	**5RZK7**
2 15/16 in	3 5/16 in	9 1/2 in	3/4 in	6 1/2 in	2 29/32 in	12 in	UELPL-2.15/16M	**5RZK8**
Pillow Block, Set Screw								
Medium Duty General Line								
1 in	1 3/4 in	4 11/16 in	1/2 in	3 11/32 in	2 in	6 1/4 in	UCPX05-100D1	**5ZUH6**
1 3/16 in	1 7/8 in	5 in	1/2 in	3 21/32 in	2 1/4 in	6 7/8 in	UCPX06-103D1	**5ZUH7**
1 7/16 in	2 1/8 in	5 21/32 in	1/2 in	4 1/8 in	2 1/4 in	8 in	UCPX07-107D1	**5ZUH8**
1 1/2 in	2 5/16 in	6 5/32 in	5/8 in	4 3/8 in	2 5/8 in	8 3/4 in	UCPX08-108D1	**5ZUH9**
1 11/16 in	2 5/16 in	6 5/32 in	5/8 in	4 9/16 in	2 5/8 in	8 3/4 in	UCPX09-111D1	**5ZUJ0**
1 3/4 in	2 5/16 in	6 5/32 in	5/8 in	4 9/16 in	2 5/8 in	8 3/4 in	UCPX09-112D1	**5ZUJ1**
1 15/16 in	2 1/2 in	6 23/32 in	5/8 in	4 31/32 in	2 7/8 in	9 1/2 in	UCPX10-115D1	**5ZUJ2**
2 in	2 1/2 in	6 23/32 in	5/8 in	4 31/32 in	2 7/8 in	9 1/2 in	UCPX10-200D1	**5ZUJ3**
2 3/16 in	2 3/4 in	7 1/4 in	3/4 in	5 13/32 in	3 1/8 in	10 1/4 in	UCPX11-203D1	**5ZUJ4**
2 7/16 in	3 in	8 in	3/4 in	5 15/16 in	3 9/32 in	11 1/4 in	UCPX12-207D1	**5ZUJ5**
2 1/2 in	3 in	8 in	3/4 in	6 1/16 in	3 9/32 in	11 1/4 in	UCPX13-208D1	**5ZUJ6**
2 15/16 in	3 1/2 in	9 1/32 in	7/8 in	6 7/8 in	3 1/2 in	13 in	UCPX15-215D1	**5ZUJ7**
Medium Duty Ultra-Class								
15/16 in	1 11/16 in	4 5/8 in	5/8 in	3 9/32 in	1 7/8 in	6 1/2 in	UCPX-15/16M	**5RYY2**
1 in	1 11/16 in	4 5/8 in	1/2 in	3 9/32 in	1 7/8 in	6 1/2 in	UCPX-1M	**5RYX4**
1 3/16 in	1 7/8 in	5 1/8 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	UCPX-1.3/16M	**5RYX9**
1 1/4 in	2 1/8 in	5 3/8 in	1/2 in	4 1/8 in	1 7/8 in	7 11/16 in	UCPX-1.1/4M	**5RYX6**
1 7/16 in	2 1/8 in	5 3/8 in	1/2 in	4 1/8 in	1 7/8 in	7 11/16 in	UCPX-1.7/16M	**5RYY1**
1 1/2 in	2 1/8 in	5 7/8 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	UCPX-1.1/2M	**5RYX5**
1 11/16 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCPX-1.11/16M	**5RYX7**
1 3/4 in	2 1/4 in	6 7/32 in	5/8 in	4 1/2 in	2 3/8 in	8 1/8 in	UCPX-1.3/4M	**5RYY0**
1 15/16 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCPX-1.15/16M	**5RYX8**
2 in	2 1/2 in	6 15/16 in	5/8 in	4 31/32 in	2 3/8 in	8 5/8 in	UCPX-2M	**5RYY3**
2 3/16 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UCPX-2.3/16M	**5RYY8**
2 1/4 in	2 3/4 in	7 13/32 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	UCPX-2.1/4M	**5RYY5**
2 7/16 in	3 in	8 in	3/4 in	6 1/16 in	2 27/32 in	10 15/32 in	UCPX-2.7/16M	**5RYY9**
2 1/2 in	3 in	8 in	3/4 in	6 1/16 in	2 27/32 in	10 15/32 in	UCPX-2.1/2M	**5RYY4**
2 11/16 in	3 1/2 in	9 in	3/4 in	7 in	3 1/2 in	13 in	UCPX-2.11/16M	**5RYY6**
2 15/16 in	3 1/2 in	9 in	3/4 in	7 in	3 1/2 in	13 in	UCPX-2.15/16M	**5RYY7**
3 in	3 1/2 in	9 in	3/4 in	7 in	3 1/2 in	13 in	UCPX-3M	**5RYZ0**
3 7/16 in	4 in	10 31/32 in	3/4 in	8 in	4 3/8 in	14 in	UCPX-3.7/16M	**5RYZ2**
3 1/2 in	4 in	10 31/32 in	3/4 in	8 in	4 3/8 in	14 in	UCPX-3.1/2M	**5RYZ1**

CONTINUED

CONTINUED

Mounted Ball Bearings

NTN

Bore Dia.	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. H	Overall Dim. W	Overall Dim. L	Mfr. Model	Item No.
2-Bolt Flange, Set Screw							
Light Duty Ultra-Class™							
1/2 in	3 in	3/8 in	1 19/64 in	2 13/32 in	3 27/32 in	ARFLU-1/2	**5ZMW6**
5/8 in	3 in	3/8 in	1 19/64 in	2 13/32 in	3 27/32 in	ARFLU-5/8	**5ZMW8**
3/4 in	3 17/32 in	3/8 in	1 29/64 in	2 13/32 in	4 7/16 in	ARFLU-3/4	**5ZMW7**
1 in	3 57/64 in	7/16 in	1 33/64 in	2 3/4 in	4 29/32 in	ARFLU-1	**5ZMW2**
1 3/16 in	4 19/32 in	7/16 in	1 39/64 in	3 9/32 in	5 19/32 in	ARFLU-1.3/16	**5ZMW4**
1 1/4 in	4 19/32 in	7/16 in	1 39/64 in	3 9/32 in	5 19/32 in	ARFLU-1.1/4S	**5ZMW3**
1 7/16 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	ARFLU-1.7/16	**5ZMW5**
Standard Duty General Line							
1/2 in	3 35/64 in	3/8 in	1 5/16 in	2 3/8 in	4 7/16 in	UCFL201-008D1	**5ZUC9**
5/8 in	3 35/64 in	3/8 in	1 5/16 in	2 3/8 in	4 7/16 in	UCFL202-010D1	**5ZUD0**
3/4 in	3 35/64 in	3/8 in	1 5/16 in	2 3/8 in	4 7/16 in	UCFL204-012D1	**5ZUD1**
7/8 in	3 57/64 in	1/2 in	1 13/32 in	2 11/16 in	5 1/8 in	UCFL205-014D1	**5ZUD2**
15/16 in	3 57/64 in	1/2 in	1 13/32 in	2 11/16 in	5 1/8 in	UCFL205-015D1	**5ZUD3**
1 in	3 57/64 in	1/2 in	1 13/32 in	2 11/16 in	5 1/8 in	UCFL205-100D1	**5ZUD4**
1 1/8 in	4 39/64 in	3/8 in	1 37/64 in	3 5/32 in	5 13/16 in	UCFL206-102D1	**5ZUD5**
1 3/16 in	4 39/64 in	3/8 in	1 37/64 in	3 5/32 in	5 13/16 in	UCFL206-103D1	**5ZUD6**
1 1/4 in	5 1/8 in	1/2 in	1 3/4 in	3 17/32 in	6 11/32 in	UCFL207-104D1	**5ZUD7**
1 3/8 in	5 1/8 in	1/2 in	1 3/4 in	3 17/32 in	6 11/32 in	UCFL207-106D1	**5ZUD8**
1 7/16 in	5 1/8 in	1/2 in	1 3/4 in	3 17/32 in	6 11/32 in	UCFL207-107D1	**5ZUD9**
1 1/2 in	5 43/64 in	1/2 in	2 1/64 in	3 15/16 in	6 7/8 in	UCFL208-108D1	**5ZUE0**
1 11/16 in	5 53/64 in	5/8 in	2 1/16 in	4 1/4 in	7 13/32 in	UCFL209-111D1	**5ZUE1**
1 3/4 in	5 53/64 in	5/8 in	2 1/16 in	4 1/4 in	7 13/32 in	UCFL209-112D1	**5ZUE2**
1 15/16 in	6 3/16 in	5/8 in	2 5/32 in	4 17/32 in	7 3/4 in	UCFL210-115D1	**5ZUE3**
2 in	7 1/4 in	5/8 in	2 19/64 in	5 1/8 in	8 13/16 in	UCFL211-200D1	**5ZUE4**
Standard Duty Ultra-Class							
1/2 in	3 in	3/8 in	1 19/64 in	2 13/32 in	3 27/32 in	UCFLU-1/2M	**5RYG8**
5/8 in	3 in	3/8 in	1 19/64 in	2 13/32 in	3 27/32 in	UCFLU-5/8M	**5RYH4**
3/4 in	3 17/32 in	3/8 in	1 15/32 in	2 13/32 in	4 7/16 in	UCFLU-3/4M	**5RYH3**
15/16 in	3 57/64 in	3/8 in	1 17/32 in	2 3/4 in	4 29/32 in	UCFLU-15/16M	**5RYG9**
1 in	3 57/64 in	3/8 in	1 17/32 in	2 3/4 in	4 29/32 in	UCFLU-1M	**5RYF3**
1 1/8 in	4 19/32 in	3/8 in	1 21/32 in	3 9/32 in	5 19/32 in	UCFLU-1.1/8M	**5RYF7**
1 3/16 in	4 19/32 in	3/8 in	1 21/32 in	3 9/32 in	5 19/32 in	UCFLU-1.3/16M	**5RYG0**
1 1/4 in	4 19/32 in	3/8 in	1 21/32 in	3 9/32 in	5 19/32 in	UCFLU-1.1/4SM	**5RYF6**
1 1/4 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	UCFLU-1.1/4M	**5RYF5**
1 3/8 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	UCFLU-1.3/8M	**5RYG2**
1 7/16 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	UCFLU-1.7/16M	**5RYG5**
1 1/2 in	5 21/32 in	7/16 in	2 9/64 in	4 1/8 in	6 25/32 in	UCFLU-1.1/2M	**5RYF4**
1 9/16 in	5 21/32 in	7/16 in	2 9/64 in	4 1/8 in	6 25/32 in	UCFLU-1.9/16M	**5RYG7**
1 5/8 in	5 27/32 in	7/16 in	2 9/64 in	4 3/8 in	7 3/32 in	UCFLU-1.5/8M	**5RYG4**
1 11/16 in	5 27/32 in	7/16 in	2 9/64 in	4 3/8 in	7 3/32 in	UCFLU-1.11/16M	**5RYF8**
1 3/4 in	5 27/32 in	7/16 in	2 9/64 in	4 3/8 in	7 3/32 in	UCFLU-1.3/4M	**5RYG1**
1 15/16 in	6 3/16 in	5/8 in	2 25/64 in	4 9/16 in	7 15/32 in	UCFLU-1.15/16M	**5RYF9**
2 in	6 3/16 in	5/8 in	2 25/64 in	4 9/16 in	7 15/32 in	UCFLU-2SM	**5RYH2**
2 in	7 1/4 in	5/8 in	2 17/32 in	5 9/32 in	8 17/32 in	UCFLU-2M	**5RYH0**
2 3/16 in	7 1/4 in	5/8 in	2 17/32 in	5 9/32 in	8 17/32 in	UCFLU-2.3/16M	**5RYH1**
20 mm	3 17/32 in	3/8 in	1 15/32 in	4 7/16 in	2 13/32 in	UCFLU-20	**46E588**
25 mm	3 57/64 in	3/8 in	1 17/32 in	4 29/32 in	2 3/4 in	UCFLU-25	**46E589**
30 mm	4 19/32 in	7/16 in	1 21/32 in	5 19/32 in	3 9/32 in	UCFLU-30	**46E590**
35 mm	5 1/8 in	7/16 in	1 53/64 in	6 5/32 in	3 25/32 in	UCFLU-35	**46E591**
40 mm	5 21/32 in	7/16 in	2 9/64 in	6 25/32 in	4 1/8 in	UCFLU-40	**46E592**
2-Bolt Flange, Eccentric Locking Collar							
Standard Duty General Line							
1 in	3 57/64 in	3/8 in	1 13/16 in	2 3/4 in	4 29/32 in	UELFLU205-100D1W3	**5ZUR7**
1 3/16 in	4 19/32 in	3/8 in	1 31/32 in	3 9/32 in	5 19/32 in	UELFLU206-103D1W3	**5ZUR8**
1 1/4 in	5 1/8 in	1/2 in	2 3/32 in	3 25/32 in	6 5/32 in	UELFLU207-104G-6#02	**5ZUR9**
1 3/8 in	5 1/8 in	1/2 in	2 3/32 in	3 25/32 in	6 5/32 in	UELFLU207-106D1W3	**5ZUT0**
1 7/16 in	5 1/8 in	1/2 in	2 3/32 in	3 25/32 in	6 5/32 in	UELFL207-107D1W3	**5ZUT1**
1 3/4 in	5 27/32 in	1/2 in	2 5/16 in	4 3/8 in	7 3/32 in	UELFLU209-112D1W3	**5ZUT3**
Standard Duty Ultra-Class							
1/2 in	3 in	3/8 in	1 21/32 in	2 13/32 in	3 27/32 in	UELFLU-1/2M	**5RZA7**
5/8 in	3 in	3/8 in	1 21/32 in	2 13/32 in	3 27/32 in	UELFLU-5/8M	**5RZC2**
15/16 in	3 57/64 in	3/8 in	1 13/16 in	2 3/4 in	4 29/32 in	UELFLU-15/16M	**5RZA8**
1 in	3 57/64 in	3/8 in	1 13/16 in	2 3/4 in	4 29/32 in	UELFLU-1M	**5RYZ3**
1 3/16 in	4 19/32 in	7/16 in	1 31/32 in	3 9/32 in	5 19/32 in	UELFLU-1.3/16M	**5RZA0**
1 1/4 in	4 19/32 in	3/8 in	1 31/32 in	3 9/32 in	5 19/32 in	UELFLU-1.1/4SM	**5RYZ6**
1 1/4 in	5 1/8 in	1/2 in	2 3/32 in	3 25/32 in	6 5/32 in	UELFLU-1.1/4M	**5RYZ5**
1 7/16 in	5 1/8 in	1/2 in	2 3/32 in	3 25/32 in	6 5/32 in	UELFLU-1.7/16M	**5RZA5**
1 1/2 in	5 21/32 in	1/2 in	2 5/16 in	4 1/8 in	6 25/32 in	UELFLU-1.1/2M	**5RYZ4**
1 11/16 in	5 27/32 in	1/2 in	2 5/16 in	4 3/8 in	7 3/32 in	UELFLU-1.11/16M	**5RYZ8**
1 3/4 in	5 27/32 in	1/2 in	2 5/16 in	4 3/8 in	7 3/32 in	UELFLU-1.3/4M	**5RZA1**
1 7/8 in	6 3/16 in	5/8 in	2 39/64 in	4 9/16 in	7 15/32 in	UELFLU-1.7/8M	**5RZA6**
1 15/16 in	6 3/16 in	5/8 in	2 39/64 in	4 9/16 in	7 15/32 in	UELFLU-1.15/16M	**5RYZ9**
2 in	7 1/4 in	5/8 in	2 15/16 in	5 9/32 in	8 17/32 in	UELFLU-2M	**5RZA9**
2 3/16 in	7 1/4 in	5/8 in	2 15/16 in	5 9/32 in	8 17/32 in	UELFLU-2.3/16M	**5RZC0**
2-Bolt Flange, Set Screw							
Medium Duty Ultra-Class							
15/16 in	4 19/32 in	3/8 in	1 21/32 in	3 9/32 in	5 19/32 in	UCFLUX-15/16M	**5RYJ4**
1 in	4 19/32 in	3/8 in	1 21/32 in	3 9/32 in	5 19/32 in	UCFLUX-1M	**5RYH6**
1 3/16 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	UCFLUX-1.3/16M	**5RYJ1**
1 1/4 in	5 1/8 in	7/16 in	1 53/64 in	3 25/32 in	6 5/32 in	UCFLUX-1.1/4M	**5RYH8**
1 7/16 in	5 21/32 in	7/16 in	2 9/64 in	4 1/8 in	6 25/32 in	UCFLUX-1.7/16M	**5RYJ3**
1 1/2 in	5 27/32 in	7/16 in	2 9/64 in	4 3/8 in	7 3/32 in	UCFLUX-1.1/2M	**5RYH7**
1 11/16 in	6 3/16 in	9/16 in	2 25/64 in	4 9/16 in	7 15/32 in	UCFLUX-1.11/16M	**5RYH9**
1 3/4 in	6 3/16 in	9/16 in	2 25/64 in	4 9/16 in	7 15/32 in	UCFLUX-1.3/4M	**5RYJ2**
1 15/16 in	7 1/4 in	9/16 in	2 17/32 in	5 9/32 in	8 17/32 in	UCFLUX-1.15/16M	**5RYJ0**
2 in	7 1/4 in	9/16 in	2 17/32 in	5 9/32 in	8 17/32 in	UCFLUX-2M	**5RYJ5**
4-Bolt Flange, Set Screw							
Standard Duty General Line							
5/8 in	2 33/64 in	3/8 in	1 5/16 in	3 3/8 in	3 3/8 in	UCF202-010D1	**5RGV8**
3/4 in	2 33/64 in	3/8 in	1 5/16 in	3 3/8 in	3 3/8 in	UCF204-012D1	**5RGV9**
7/8 in	2 3/4 in	3/8 in	1 13/32 in	3 3/4 in	3 3/4 in	UCF205-014D1	**5RGW0**
1 in	2 3/4 in	3/8 in	1 13/32 in	3 3/4 in	3 3/4 in	UCF205-100D1	**5RGW1**
1 1/8 in	3 17/64 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	UCF206-102D1	**5RGW2**
1 3/16 in	3 17/64 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	UCF206-103D1	**5RGW3**
1 1/4 in	3 5/8 in	7/16 in	1 3/4 in	4 19/32 in	4 19/32 in	UCF207-104D1	**5RGW4**
1 3/8 in	3 5/8 in	7/16 in	1 3/4 in	4 19/32 in	4 19/32 in	UCF207-106D1	**5RGW5**
1 7/16 in	3 5/8 in	7/16 in	1 3/4 in	4 19/32 in	4 19/32 in	UCF207-107D1	**5RGW6**
1 1/2 in	4 1/64 in	1/2 in	2 1/64 in	5 1/8 in	5 1/8 in	UCF208-108D1	**5RGW7**
1 11/16 in	4 9/64 in	1/2 in	2 1/16 in	5 13/32 in	5 13/32 in	UCF209-111D1	**5RGW8**
1 3/4 in	4 9/64 in	1/2 in	2 1/16 in	5 13/32 in	5 13/32 in	UCF209-112D1	**5RGW9**
1 15/16 in	4 3/8 in	1/2 in	2 5/32 in	5 5/8 in	5 5/8 in	UCF210-115D1	**5RGX0**
2 in	5 1/8 in	5/8 in	2 19/64 in	6 3/8 in	6 3/8 in	UCF211-200D1	**5RGX1**
2 3/16 in	5 1/8 in	5/8 in	2 19/64 in	6 3/8 in	6 3/8 in	UCF211-203D1	**5RGX2**
2 7/16 in	5 5/8 in	5/8 in	2 45/64 in	6 7/8 in	6 7/8 in	UCF212-207D1-8	**5ZUC8**
Standard Duty Ultra-Class							
1/2 in	2 1/8 in	3/8 in	1 19/64 in	3 in	3 in	UCFU-1/2M	**5RYL1**
5/8 in	2 1/8 in	3/8 in	1 19/64 in	3 in	3 in	UCFU-5/8M	**5RYN4**
3/4 in	2 1/2 in	3/8 in	1 15/32 in	3 3/8 in	3 3/8 in	UCFU-3/4M	**5RYN3**
7/8 in	2 3/4 in	3/8 in	1 17/32 in	3 25/32 in	3 25/32 in	UCFU-7/8M	**5RYN5**
1 in	2 3/4 in	3/8 in	1 17/32 in	3 25/32 in	3 25/32 in	UCFU-1M	**5RYJ6**
1 1/8 in	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFU-1.1/8M	**5RYK0**
1 3/16 in	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFU-1.3/16M	**5RYK3**
1 1/4 in	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFU-1.1/4SM	**5RYJ9**
1 1/4 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFU-1.1/4M	**5RYJ8**
1 5/16 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFU-1.5/16M	**5RYK6**
1 3/8 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFU-1.3/8M	**5RYK5**
1 7/16 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFU-1.7/16M	**5RYK8**
1 1/2 in	4 in	7/16 in	2 9/64 in	5 5/32 in	5 5/32 in	UCFU-1.1/2M	**5RYJ7**
1 9/16 in	4 in	7/16 in	2 9/64 in	5 5/32 in	5 5/32 in	UCFU-1.9/16M	**5RYL0**
1 5/8 in	4 1/8 in	7/16 in	2 9/64 in	5 13/32 in	5 13/32 in	UCFU-1.5/8M	**5RYK7**
1 11/16 in	4 1/8 in	7/16 in	2 9/64 in	5 13/32 in	5 13/32 in	UCFU-1.11/16M	**5RYK1**
1 3/4 in	4 1/8 in	7/16 in	2 9/64 in	5 13/32 in	5 13/32 in	UCFU-1.3/4M	**5RYK4**
1 7/8 in	4 3/8 in	5/8 in	2 25/64 in	5 21/32 in	5 21/32 in	UCFU-1.7/8M	**5RYK9**
1 15/16 in	4 3/8 in	5/8 in	2 25/64 in	5 21/32 in	5 21/32 in	UCFU-1.15/16M	**5RYK2**
2 in	4 3/8 in	5/8 in	2 25/64 in	5 21/32 in	5 21/32 in	UCFU-2SM	**5RYN1**
2 in	5 1/8 in	5/8 in	2 17/32 in	6 13/32 in	6 13/32 in	UCFU-2M	**5RYL3**
2 1/8 in	5 1/8 in	5/8 in	2 17/32 in	6 13/32 in	6 13/32 in	UCFU-2.1/8M	**5RYL5**
2 3/16 in	5 1/8 in	5/8 in	2 17/32 in	6 13/32 in	6 13/32 in	UCFU-2.3/16M	**5RYL8**
2 1/4 in	5 5/8 in	5/8 in	2 29/32 in	6 7/8 in	6 7/8 in	UCFU-2.1/4M	**5RYL4**
2 3/8 in	5 5/8 in	5/8 in	2 29/32 in	6 7/8 in	6 7/8 in	UCFU-2.3/8M	**5RYL9**
2 7/16 in	5 5/8 in	5/8 in	2 29/32 in	6 7/8 in	6 7/8 in	UCFU-2.7/16M	**5RYN0**
2 11/16 in	5 7/8 in	5/8 in	3 1/4 in	7 19/32 in	7 19/32 in	UCFU-2.11/16M	**5RYL6**
2 15/16 in	6 in	3/4 in	3 23/64 in	7 7/8 in	7 7/8 in	UCFU-2.15/16M	**5RYL7**
3 in	6 in	3/4 in	3 23/64 in	7 7/8 in	7 7/8 in	UCFU-3M	**5RYN2**
20 mm	2 1/2 in	3/8 in	1 15/32 in	3 3/8 in	3 3/8 in	UCFU-20	**46E578**
25 mm	2 3/4 in	3/8 in	1 17/32 in	3 25/32 in	3 25/32 in	UCFU-25	**46E579**
30 mm	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFU-30	**46E580**
35 mm	3 5/8 in	7/16 in	1 53/64 in	4 21/32 in	4 21/32 in	UCFU-35	**46E581**
40 mm	4 in	7/16 in	2 9/64 in	5 5/32 in	5 5/32 in	UCFU-40	**46E582**
4-Bolt Flange, Eccentric Locking Collar							
Standard Duty General Line							
3/4 in	2 1/2 in	3/8 in	1 51/64 in	3 3/8 in	3 3/8 in	UELFU204-012D1W3	**5ZUP4**
1 in	2 3/4 in	3/8 in	1 13/16 in	3 25/32 in	3 25/32 in	UELFU205-100D1W3	**5ZUP5**
1 3/16 in	3 17/64 in	3/8 in	1 57/64 in	4 1/4 in	4 1/4 in	UELF206-103D1	**5ZUP6**
1 1/4 in	3 5/8 in	1/2 in	2 9/16 in	4 21/32 in	4 21/32 in	UELFU207-104D1W3	**5ZUP8**
1 1/4 in	3 3/4 in	3/8 in	1 57/64 in	1 31/32 in	4 1/4 in	UELFU206-104D1W3	**5ZUP7**
1 3/8 in	3 5/8 in	1/2 in	2 1/64 in	4 21/32 in	4 21/32 in	UELFU207-106D1W3	**5ZUP9**
1 7/16 in	3 5/8 in	7/16 in	2 1/64 in	4 19/32 in	4 19/32 in	UELF207-107D1W3	**5ZUR0**
1 1/2 in	4 in	1/2 in	2 13/64 in	5 1/8 in	5 1/8 in	UELFU208-108D1W3	**5ZUR1**
1 11/16 in	4 9/64 in	1/2 in	2 15/64 in	5 13/32 in	5 13/32 in	UELFU209-111D1W3	**5ZUR2**
1 15/16 in	4 3/8 in	1/2 in	2 23/64 in	5 5/8 in	5 5/8 in	UELF210-115D1W3	**5ZUR3**
2 in	5 1/8 in	5/8 in	2 45/64 in	6 3/8 in	6 3/8 in	UELF211-200D1W3	**5ZUR4**
2 3/16 in	5 1/8 in	5/8 in	2 45/64 in	6 3/8 in	6 3/8 in	UELF211-203D1W3	**5ZUR5**
2 7/16 in	5 5/8 in	5/8 in	2 63/64 in	6 7/8 in	6 7/8 in	UELF212-207D1W3	**5ZUR6**
Standard Duty Ultra-Class							
3/4 in	2 1/2 in	3/8 in	1 51/64 in	3 3/8 in	3 3/8 in	UELFU-3/4M	**5RZE9**
15/16 in	2 3/4 in	3/8 in	1 13/16 in	3 25/32 in	3 25/32 in	UELFU-15/16M	**5RZD9**
1 in	2 3/4 in	3/8 in	1 13/16 in	3 25/32 in	3 25/32 in	UELFU-1M	**5RZC4**
1 3/16 in	3 1/4 in	3/8 in	1 31/32 in	4 9/32 in	4 9/32 in	UELFU-1.3/16M	**5RZD1**
1 1/4 in	3 1/4 in	3/8 in	1 31/32 in	4 9/32 in	4 9/32 in	UELFU-1.1/4SM	**5RZC7**
1 1/4 in	3 5/8 in	3/8 in	2 3/32 in	4 3/8 in	4 21/32 in	UELFU-1.1/4M	**5RZC6**
1 3/8 in	3 5/8 in	3/8 in	2 3/32 in	4 3/8 in	4 21/32 in	UELFU-1.3/8M	**5RZD3**
1 7/16 in	3 5/8 in	3/8 in	2 3/32 in	4 3/8 in	4 21/32 in	UELFU-1.7/16M	**5RZD5**
1 1/2 in	4 in	3/8 in	2 5/16 in	5 5/32 in	5 5/32 in	UELFU-1.1/2M	**5RZC5**
1 9/16 in	4 in	3/8 in	2 5/16 in	5 5/32 in	5 5/32 in	UELFU-1.9/16M	**5RZD7**
1 5/8 in	4 1/8 in	3/8 in	2 5/16 in	5 13/32 in	5 13/32 in	UELFU-1.5/8M	**5RZD4**
1 11/16 in	4 1/8 in	3/8 in	2 5/16 in	5 13/32 in	5 13/32 in	UELFU-1.11/16M	**5RZC9**
1 3/4 in	4 1/8 in	3/8 in	2 5/16 in	5 13/32 in	5 13/32 in	UELFU-1.3/4M	**5RZD2**
1 7/8 in	4 3/8 in	5/8 in	2 39/64 in	5 21/32 in	5 21/32 in	UELFU-1.7/8M	**5RZD6**
1 15/16 in	4 3/8 in	5/8 in	2 39/64 in	5 21/32 in	5 21/32 in	UELFU-1.15/16M	**5RZD0**
2 in	4 3/8 in	5/8 in	2 39/64 in	5 21/32 in	5 21/32 in	UELFU-2SM	**5RZE7**
2 3/16 in	5 1/8 in	5/8 in	2 15/16 in	6 13/32 in	6 13/32 in	UELFU-2.3/16M	**5RZE4**
2 1/4 in	5 5/8 in	5/8 in	3 3/16 in	6 7/8 in	6 7/8 in	UELFU-2.1/4M	**5RZE1**
2 3/8 in	5 5/8 in	5/8 in	3 3/16 in	6 7/8 in	6 7/8 in	UELFU-2.3/8M	**5RZE5**
2 7/16 in	5 5/8 in	5/8 in	3 3/16 in	6 7/8 in	6 7/8 in	UELFU-2.7/16M	**5RZE6**
2 11/16 in	5 63/64 in	3/4 in	3 17/32 in	7 19/32 in	7 19/32 in	UELFU-2.11/16M	**5RZE2**
2 15/16 in	6 in	3/4 in	3 49/64 in	7 7/8 in	7 7/8 in	UELFU-2.15/16M	**5RZE3**
4-Bolt Flange, Set Screw							
Medium Duty General Line							
1 in	3 17/64 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	UCFX05-100D1	**5ZUE5**
1 3/16 in	3 5/8 in	1/2 in	1 3/4 in	4 19/32 in	4 19/32 in	UCFX06-103D1	**5ZUE6**
1 7/16 in	4 1/64 in	1/2 in	2 1/64 in	5 1/8 in	5 1/8 in	UCFX07-107D1	**5ZUE7**
1 1/2 in	4 9/64 in	5/8 in	2 1/16 in	5 13/32 in	5 13/32 in	UCFX08-108D1	**5ZUE8**
1 11/16 in	4 3/8 in	5/8 in	2 3/16 in	5 5/8 in	5 5/8 in	UCFX09-111D1	**5ZUE9**
1 3/4 in	4 3/8 in	5/8 in	2 3/16 in	5 5/8 in	5 5/8 in	UCFX09-112D1	**5ZUF0**
1 15/16 in	5 1/8 in	5/8 in	2 11/32 in	6 3/8 in	6 3/8 in	UCFX10-115D1	**5ZUF1**
2 in	5 1/8 in	5/8 in	2 11/32 in	6 3/8 in	6 3/8 in	UCFX10-200D1	**5ZUF2**
2 3/16 in	5 5/8 in	5/8 in	2 45/64 in	6 7/8 in	6 7/8 in	UCFX11-203D1	**5ZUF3**
2 1/2 in	5 55/64 in	5/8 in	3 3/32 in	7 3/8 in	7 3/8 in	UCFX13-208D1	**5ZUF4**
2 11/16 in	5 63/64 in	3/4 in	3 13/64 in	7 3/4 in	7 3/4 in	UCFX14-211D1	**5ZUF5**
2 15/16 in	5 63/64 in	3/4 in	3 33/64 in	7 3/4 in	7 3/4 in	UCFX15-215D1	**5ZUF6**
Medium Duty Ultra-Class							
15/16 in	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFUX-15/16M	**5RYP4**
1 in	3 1/4 in	3/8 in	1 21/32 in	4 9/32 in	4 9/32 in	UCFUX-1M	**5RYN6**
1 3/16 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFUX-1.3/16M	**5RYP1**
1 1/4 in	3 5/8 in	7/16 in	1 53/64 in	4 3/8 in	4 21/32 in	UCFUX-1.1/4M	**5RYN8**
1 7/16 in	4 in	7/16 in	2 9/64 in	5 5/32 in	5 5/32 in	UCFUX-1.7/16M	**5RYP3**
1 1/2 in	4 1/8 in	7/16 in	2 9/64 in	5 13/32 in	5 13/32 in	UCFUX-1.1/2M	**5RYN7**
1 11/16 in	4 3/8 in	5/8 in	2 25/64 in	5 21/32 in	5 21/32 in	UCFUX-1.11/16M	**5RYN9**
1 3/4 in	4 3/8 in	5/8 in	2 25/64 in	5 21/32 in	5 21/32 in	UCFUX-1.3/4M	**5RYP2**
1 15/16 in	5 1/8 in	5/8 in	2 17/32 in	6 13/32 in	6 13/32 in	UCFUX-1.15/16M	**5RYP0**
2 in	5 1/8 in	5/8 in	2 17/32 in	6 13/32 in	6 13/32 in	UCFUX-2M	**5RYP5**
2 3/16 in	5 5/8 in	5/8 in	2 29/32 in	6 7/8 in	6 7/8 in	UCFUX-2.3/16M	**5RYR0**
2 1/4 in	5 5/8 in	5/8 in	2 29/32 in	6 7/8 in	6 7/8 in	UCFUX-2.1/4M	**5RYP7**
2 7/16 in	5 7/8 in	5/8 in	3 1/4 in	7 19/32 in	7 19/32 in	UCFUX-2.7/16M	**5RYR1**
2 1/2 in	5 7/8 in	5/8 in	3 1/4 in	7 19/32 in	7 19/32 in	UCFUX-2.1/2M	**5RYP6**
2 11/16 in	6 in	3/4 in	3 23/64 in	7 7/8 in	7 7/8 in	UCFUX-2.11/16M	**5RYP8**
2 15/16 in	6 in	3/4 in	3 9/16 in	7 7/8 in	7 7/8 in	UCFUX-2.15/16M	**5RYP9**
3 in	6 in	3/4 in	3 9/16 in	7 7/8 in	7 7/8 in	UCFUX-3M	**5RYR2**

Dayton

Pillow Block Mount
3FCP4

2-Bolt Flange Mount
3FCV3

4-Bolt Flange Mount
3FCX4

Rubber Mount
3FDF1

Mounted Ball Bearings

- Temp. range: -20° to 200°F
- 52100 Grade 10 chrome steel ball bearings

Pillow block and flange-mount bearings are prelubricated and regreaseable with a rubber seal and cast-iron housing. Rubber-mounted bearings are lubricated, not regreaseable, and feature a rubber seal and housing.

Nickel-Plated Bearings—For corrosive environments or where a decorative finish is preferred.

Air Handling and Rubber-Mounted Bearings—Designed to reduce noise and vibration in HVAC applications. Rubber mounted 52100 chrome steel ball bearing features rubber seals and is designed to reduce noise and vibration in HVAC applications.

Bore Dia.	Mounting Surface to Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall H	Overall W	Overall L	Item No.
Pillow Block, Light Duty, Set Screw							
1/2 in	1 3/16 in	3 5/8 in	3/8 in	2 1/4 in	1 7/32 in	4 7/8 in	**3CUR1**
5/8 in	1 3/16 in	3 5/8 in	3/8 in	2 1/4 in	1 7/32 in	4 7/8 in	**3CUR2**
3/4 in	1 5/16 in	3 3/4 in	7/16 in	2 31/64 in	1 1/2 in	5 in	**3FGA3**
1 in	1 7/16 in	4 1/8 in	7/16 in	2 3/4 in	1 1/2 in	5 1/2 in	**3FGA4**
1 1/4 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FCN1**
Pillow Block, Standard Duty, Set Screw							
1/2 in	1 3/16 in	3 3/4 in	3/8 in	2 15/32 in	1 1/2 in	5 in	**3FCN9**
5/8 in	1 3/16 in	3 3/4 in	3/8 in	2 15/32 in	1 1/2 in	5 in	**3FCP1**
3/4 in	1 5/16 in	3 3/4 in	3/8 in	2 31/64 in	1 1/2 in	5 in	**3FCP2**
7/8 in	1 7/16 in	4 1/8 in	3/8 in	2 3/4 in	1 1/2 in	5 in	**3FCP3**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 3/4 in	1 1/2 in	5 1/2 in	**3FCP4**
1 1/8 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FCP5**
1 3/16 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FCP6**
1 1/4 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FCP8**
1 1/4 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	**3FCP7**
1 3/8 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	**3FCP9**
1 7/16 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	**3FCR1**
1 1/2 in	1 15/16 in	5 13/32 in	1/2 in	3 27/32 in	2 1/8 in	7 1/4 in	**3FCR2**
1 5/8 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	**3FCR3**
1 11/16 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	**3FCR4**
1 3/4 in	2 1/8 in	5 3/4 in	1/2 in	4 3/16 in	2 1/8 in	7 15/32 in	**3FCR5**
1 15/16 in	2 1/4 in	6 1/4 in	5/8 in	4 7/16 in	2 3/8 in	8 1/8 in	**3FCR6**
2 in	2 1/2 in	6 23/32 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	**3FCR8**
2 3/16 in	2 1/2 in	6 23/32 in	5/8 in	4 7/8 in	2 3/8 in	8 5/8 in	**3FCR7**
2 7/16 in	2 3/4 in	7 1/4 in	5/8 in	5 7/16 in	2 3/4 in	9 1/2 in	**3FCR9**
Pillow Block, Nickel-Plated Standard Duty, Set Screw							
5/8 in	1 3/16 in	3 3/4 in	3/8 in	2 31/64 in	1 1/2 in	5 in	**3FDD5**
3/4 in	1 5/16 in	3 3/4 in	3/8 in	2 31/64 in	1 1/2 in	5 in	**3FDD6**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 3/4 in	1 1/2 in	5 1/2 in	**3FDD7**
1 3/16 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FDD8**
Pillow Block, Air Handling Standard Duty, Set Screw							
5/8 in	1 5/16 in	3 3/4 in	3/8 in	2 31/64 in	1 1/2 in	5 in	**3FDA3**
3/4 in	1 5/16 in	3 3/4 in	3/8 in	2 31/64 in	1 1/2 in	5 in	**3FDA4**
1 in	1 7/16 in	4 1/8 in	3/8 in	2 3/4 in	1 1/2 in	5 1/2 in	**3FDA5**
1 3/16 in	1 11/16 in	4 3/4 in	1/2 in	3 5/16 in	1 7/8 in	6 1/2 in	**3FDA1**
1 1/4 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	**3FDA2**
1 7/16 in	1 7/8 in	5 in	1/2 in	3 21/32 in	1 7/8 in	6 9/16 in	**3FDA6**
1 15/16 in	2 1/4 in	6 1/4 in	1/2 in	4 7/16 in	2 3/8 in	8 1/8 in	**3FDA7**
Pillow Block, Standard Duty, Eccentric Locking Collar							
5/8 in	1 1/4 in	3 3/4 in	3/8 in	2 17/32 in	1 3/4 in	5 in	**3FCT1**
3/4 in	1 1/4 in	3 3/4 in	3/8 in	2 17/32 in	1 3/4 in	5 in	**3FCT2**
1 in	1 5/16 in	4 1/8 in	3/8 in	2 11/16 in	1 3/4 in	5 1/2 in	**3FCT3**
1 1/8 in	1 9/16 in	4 3/4 in	1/2 in	3 3/16 in	2 in	6 1/2 in	**3FCT4**
1 3/16 in	1 9/16 in	4 3/4 in	1/2 in	3 3/16 in	2 in	6 1/2 in	**3FCT5**
1 1/4 in	1 13/16 in	5 3/8 in	1/2 in	3 11/16 in	2 in	7 in	**3FCT6**
1 3/8 in	1 13/16 in	5 3/8 in	1/2 in	3 11/16 in	2 in	7 in	**3FCT7**
1 7/16 in	1 13/16 in	5 3/8 in	1/2 in	3 11/16 in	2 in	7 in	**3FCT8**
1 1/2 in	1 15/16 in	5 13/32 in	1/2 in	3 27/32 in	2 7/32 in	7 1/4 in	**3FCT9**
1 11/16 in	2 1/16 in	5 3/4 in	1/2 in	4 11/64 in	2 7/32 in	7 3/4 in	**3FCU1**
1 3/4 in	2 1/16 in	5 3/4 in	1/2 in	4 11/64 in	2 7/32 in	7 3/4 in	**3FCU2**
1 15/16 in	2 3/16 in	6 1/2 in	1/2 in	4 7/16 in	2 15/32 in	8 3/8 in	**3FCU3**
2 in	2 7/16 in	7 1/8 in	5/8 in	4 15/16 in	2 13/16 in	9 1/4 in	**3FCU4**
2 3/16 in	2 7/16 in	7 1/8 in	5/8 in	4 15/16 in	2 13/16 in	9 1/4 in	**3FCU5**
2 7/16 in	2 11/16 in	7 5/8 in	5/8 in	5 7/16 in	3 1/16 in	9 3/4 in	**3FCU6**
Pillow Block, Medium Duty, Set Screw							
1 in	1 3/4 in	4 11/16 in	1/2 in	3 3/8 in	2 in	6 1/4 in	**3FDC3**
1 3/16 in	1 7/8 in	5 in	1/2 in	3 11/16 in	2 1/4 in	6 7/8 in	**3FDC4**
1 7/16 in	2 1/8 in	5 21/32 in	1/2 in	4 1/8 in	2 1/4 in	8 in	**3FDC5**
1 1/2 in	2 5/16 in	6 5/32 in	5/8 in	4 1/2 in	2 5/8 in	8 3/4 in	**3FDC6**
1 11/16 in	2 5/16 in	6 5/32 in	5/8 in	4 9/16 in	2 5/8 in	8 3/4 in	**3FDC7**
1 3/4 in	2 5/16 in	6 5/32 in	5/8 in	4 9/16 in	2 5/8 in	8 3/4 in	**3FDC8**
1 15/16 in	2 1/2 in	6 25/32 in	5/8 in	4 31/32 in	2 7/8 in	9 1/2 in	**3FDC9**
2 in	2 3/4 in	7 1/4 in	3/4 in	5 15/32 in	3 1/8 in	10 1/4 in	**3FDD1**
2 3/16 in	2 3/4 in	7 1/4 in	3/4 in	5 15/32 in	3 1/8 in	10 1/4 in	**3FDD2**
2 7/16 in	3 in	8 in	3/4 in	5 31/32 in	3 9/32 in	11 1/4 in	**3FDD3**
2 15/16 in	3 1/2 in	9 1/32 in	7/8 in	6 7/8 in	3 1/2 in	13 in	**3FDD4**

Bore Dia.	Bolt Hole Center-to-Center	Bolt Size	Overall H	Overall W	Overall L	Item No.
2-Bolt Flange, Light Duty, Set Screw						
1/2 in	3 in	3/8 in	1 9/64 in	2 1/8 in	3 7/8 in	**3FCN2**
5/8 in	3 in	3/8 in	1 9/64 in	2 1/8 in	3 7/8 in	**3FCN3**
3/4 in	3 17/32 in	3/8 in	1 3/8 in	2 3/8 in	4 7/16 in	**3FCN4**
1 in	3 57/64 in	7/16 in	1 25/64 in	2 3/4 in	5 1/8 in	**3FCN5**
1 3/16 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 13/16 in	**3FCN6**
1 1/4 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 13/16 in	**3FCN7**
1 7/16 in	5 1/8 in	1/2 in	1 11/16 in	3 17/32 in	6 11/32 in	**3FCN8**
2-Bolt Flange, Standard Duty, Set Screw						
1/2 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FCU7**
5/8 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FCU8**
3/4 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FCU9**
7/8 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FCV1**
15/16 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FCV2**
1 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FCV3**
1 1/8 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 9/16 in	**3FCV4**
1 3/16 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 9/16 in	**3FCV5**
1 1/4 in	5 1/8 in	1/2 in	1 3/4 in	3 3/4 in	6 1/8 in	**3FCV6**
1 3/8 in	5 1/8 in	1/2 in	1 3/4 in	3 3/4 in	6 1/8 in	**3FCV7**
1 7/16 in	5 1/8 in	1/2 in	1 3/4 in	3 3/4 in	6 1/8 in	**3FCV8**
1 1/2 in	5 21/32 in	1/2 in	2 1/64 in	4 1/8 in	6 5/8 in	**3FCV9**
1 11/16 in	5 27/32 in	9/16 in	2 3/64 in	4 3/8 in	7 1/16 in	**3FCW1**
1 3/4 in	5 27/32 in	9/16 in	2 3/64 in	4 3/8 in	7 1/16 in	**3FCW2**
1 15/16 in	6 3/16 in	9/16 in	2 5/32 in	4 9/16 in	7 7/16 in	**3FCW3**
2 in	7 1/4 in	5/8 in	2 5/16 in	5 1/4 in	8 1/2 in	**3FCW4**
2-Bolt Flange, Nickel-Plated Standard Duty, Set Screw						
5/8 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FDD9**
3/4 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FDE1**
1 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FDE2**
1 3/16 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 9/16 in	**3FDE3**
2-Bolt Flange, Air Handling Standard Duty, Set Screw						
3/4 in	3 17/32 in	3/8 in	1 9/32 in	2 3/8 in	4 13/32 in	**3FDA8**
15/16 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FDA9**
1 in	3 57/64 in	7/16 in	1 13/32 in	2 3/4 in	4 7/8 in	**3FDC1**
1 3/16 in	4 19/32 in	7/16 in	1 37/64 in	3 1/4 in	5 9/16 in	**3FDC2**
2-Bolt Flange, Standard Duty, Eccentric Locking Collar						
1 in	3 57/64 in	3/8 in	1 13/16 in	2 3/4 in	4 7/8 in	**3FCW5**
1 3/16 in	4 19/32 in	3/8 in	2 in	3 1/8 in	5 9/16 in	**3FCW6**
1 1/4 in	5 1/8 in	1/2 in	2 9/64 in	3 5/8 in	6 1/8 in	**3FCW7**
1 7/16 in	5 1/8 in	1/2 in	2 11/64 in	3 5/8 in	6 1/8 in	**3FCW8**
1 1/2 in	5 21/32 in	1/2 in	2 3/8 in	4 1/8 in	6 3/4 in	**3FCW9**
4-Bolt Flange, Standard Duty, Set Screw						
5/8 in	2 1/2 in	3/8 in	1 5/16 in	3 3/8 in	3 3/8 in	**3FCX1**
3/4 in	2 1/2 in	3/8 in	1 5/16 in	3 3/8 in	3 3/8 in	**3FCX2**
7/8 in	2 3/4 in	3/8 in	1 13/32 in	3 3/4 in	3 3/4 in	**3FCX3**
1 in	2 3/4 in	3/8 in	1 13/32 in	3 3/4 in	3 3/4 in	**3FCX4**
1 1/8 in	3 1/4 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	**3FCX5**
1 3/16 in	3 1/4 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	**3FCX6**
1 1/4 in	3 5/8 in	1/2 in	1 3/4 in	4 5/8 in	4 5/8 in	**3FCX7**
1 3/8 in	3 5/8 in	1/2 in	1 3/4 in	4 5/8 in	4 5/8 in	**3FCX8**
1 7/16 in	3 5/8 in	1/2 in	1 3/4 in	4 5/8 in	4 5/8 in	**3FCX9**
1 1/2 in	4 in	1/2 in	2 1/64 in	5 1/8 in	5 1/8 in	**3FCY3**
1 11/16 in	4 1/8 in	1/2 in	2 1/16 in	5 3/8 in	5 3/8 in	**3FCY1**
1 3/4 in	4 1/8 in	1/2 in	2 1/16 in	5 3/8 in	5 3/8 in	**3FCY2**
1 15/16 in	4 3/8 in	1/2 in	2 9/64 in	5 5/8 in	5 5/8 in	**3FCY6**
2 in	5 1/8 in	5/8 in	2 3/8 in	6 3/8 in	6 3/8 in	**3FCY4**
2 3/16 in	5 1/8 in	5/8 in	2 3/8 in	6 3/8 in	6 3/8 in	**3FCY5**
2 7/16 in	5 5/8 in	3/4 in	2 3/4 in	6 7/8 in	6 7/8 in	**3FCY7**
4-Bolt Flange, Nickel-Plated Standard Duty, Set Screw						
3/4 in	2 1/2 in	3/8 in	1 5/16 in	3 3/8 in	3 3/8 in	**3FDE4**
1 in	2 3/4 in	3/8 in	1 13/32 in	3 3/4 in	3 3/4 in	**3FDE5**
1 3/16 in	3 1/4 in	3/8 in	1 37/64 in	4 1/4 in	4 1/4 in	**3FDE6**
4-Bolt Flange, Standard Duty, Eccentric Locking Collar						
3/4 in	2 1/2 in	3/8 in	1 7/8 in	3 3/8 in	3 3/8 in	**3FCY8**
1 in	2 3/4 in	7/16 in	1 57/64 in	3 3/4 in	3 3/4 in	**3FCY9**
1 3/16 in	3 1/4 in	7/16 in	2 1/64 in	4 1/4 in	4 1/4 in	**3FCZ1**
1 1/4 in	3 1/4 in	7/16 in	2 1/64 in	4 1/4 in	4 1/4 in	**3FCZ3**
1 1/4 in	3 5/8 in	7/16 in	2 11/64 in	4 5/8 in	4 5/8 in	**3FCZ2**
1 3/8 in	3 5/8 in	7/16 in	2 11/64 in	4 5/8 in	4 5/8 in	**3FCZ4**
1 7/16 in	3 5/8 in	1/2 in	2 11/64 in	4 5/8 in	4 5/8 in	**3FCZ5**
1 1/2 in	4 in	1/2 in	2 3/8 in	5 1/8 in	5 1/8 in	**3FCZ6**
1 11/16 in	4 1/8 in	1/2 in	2 3/8 in	5 1/8 in	5 1/8 in	**3FCZ7**
1 15/16 in	4 3/8 in	9/16 in	2 5/8 in	5 5/8 in	5 5/8 in	**3FCZ8**
2 in	5 1/8 in	5/8 in	2 15/16 in	6 3/8 in	6 3/8 in	**3FCZ9**

Bore Dia.	Overall Width	Outside Dia.	Item No.
Rubber Mounted, Set Screw			
1/2 in	1 9/64 in	2 17/32 in	**3FDF2**
5/8 in	1 9/64 in	2 17/32 in	**3FDF3**
3/4 in	1 7/32 in	2 17/32 in	**3FDF4**
1 in	1 9/32 in	2 17/32 in	**3FDF5**
Rubber Mounted, Eccentric Locking Collar			
1/2 in	1 3/8 in	2 17/32 in	**3FDE7**
5/8 in	1 3/8 in	2 17/32 in	**3FDE8**
3/4 in	1 13/32 in	2 17/32 in	**3FDE9**
1 in	1 13/32 in	2 17/32 in	**3FDF1**

A. 5ZMX4 | B. 5TPW4 | C. 49C721 | D. 5TPV8 | E. 406U46 | F. 406U52 | G. 406U58 | H. 46N874

Corrosion-Resistant Mounted Ball Bearings

NTN

- Setscrew locking
- Temp. range: -4° to 230°F for thermoplastic (PBT) housing units
- Temp. range: -4° to 248°F for stainless steel housing units

Solid, flat base construction prevents buildup of particles in difficult to clean areas. Self-aligning design provides optimal performance under high rotational speeds. Replacement inserts are interchangeable; stainless steel inserts offer superior corrosion resistance compared with zinc-plated inserts.

Note: See the extended product offering on Grainger.com. For additional end caps, search for "bearing accessories." For additional stainless steel items, search for "stainless steel" and the product category, such as "stainless steel insert bearings."

Key	Bore Dia.	Mounting Surface to Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. (mm) H	W	L	Mfr. Model	Item No.
PBT Housing and Zinc Chromate Insert with USDA-H1 Grease									
Pillow Block									
A	¾ in	33.3 mm	95 mm	M8	65	38	127	ZUCPPL204-12	**46N892**
A	1 in	36.5 mm	105 mm	M8	71	38	140	ZUCPPL205-16	**46N893**
A	1 3⁄16 in	42.9 mm	119 mm	M10	83	46	162	ZUCPPL206-19	**46N894**
A	1 ¼ in	42.9 mm	119 mm	M10	83	46	162	ZUCPPL206-20	**46N895**
A	1 7⁄16 in	47.6 mm	127 mm	M10	94	48	167	ZUCPPL207-23	**46N896**
A	1 ½ in	49.2 mm	137 mm	M10	98	54	184	ZUCPPL208-24	**46N897**
2-Bolt Flange									
B	¾ in	—	90 mm	M10	64.8	33.7	130	ZUCNFL204-12	**46N880**
B	1 in	—	99 mm	M10	70	36.7	130	ZUCNFL205-16	**46N881**
B	1 3⁄16 in	—	117 mm	M10	80	41.2	148	ZUCNFL206-19	**46N882**
B	1 ¼ in	—	117 mm	M10	80	41.2	148	ZUCNFL206-20	**46N883**
B	1 7⁄16 in	—	130 mm	M12	90	43.4	163	ZUCNFL207-23	**46N884**
B	1 ½ in	—	144 mm	M12	100	51.7	175	ZUCNFL208-24	**46N885**
3-Bolt Flange									
C	¾ in	—	1 ½ in	M10	108	33.7	62	ZUCFBL204-12	**49C727**
C	1 in	—	1 ⅝ in	M10	120.6	41.2	63.5	ZUCFBL205-16	**49C728**
C	1 3⁄16 in	—	1 ⅞ in	M10	138.5	41.5	76	ZUCFBL206-19	**49C729**
C	1 ¼ in	—	1 ⅞ in	M10	138.5	41.5	76	ZUCFBL206-20	**49C730**
C	1 7⁄16 in	—	2 in	M12	157	47.1	89	ZUCFBL207-23	**49C731**
4-Bolt Flange									
D	¾ in	—	63.5 mm	M10	86	36.3	86	ZUCFPL204-12	**46N886**
D	1 in	—	70 mm	M10	95	36.8	95	ZUCFPL205-16	**46N887**
D	1 3⁄16 in	—	83 mm	M10	107	41.4	107	ZUCFPL206-19	**46N888**
D	1 ¼ in	—	83 mm	M10	107	41.4	107	ZUCFPL206-20	**46N889**
D	1 7⁄16 in	—	92 mm	M12	118	46.9	118	ZUCFPL207-23	**46N890**
D	1 ½ in	—	102 mm	M12	130	53.2	130	ZUCFPL208-24	**46N891**
PBT Housing and Stainless Steel Insert with USDA-H1 Grease									
Pillow Block									
A	⅝ in	33.3 mm	95 mm	M8	65	38	127	SUCPPL202-10	**5TPT9**
A	¾ in	33.3 mm	95 mm	M8	65	38	127	SUCPPL204-12	**5ZMX4**
A	1 in	36.5 mm	105 mm	M8	71	38	140	SUCPPL205-16	**5ZMX5**
A	1 3⁄16 in	42.9 mm	119 mm	M10	83	46	162	SUCPPL206-19	**5TPV2**
A	1 ¼ in	42.9 mm	119 mm	M10	83	46	162	SUCPPL206-20	**5TPV3**
A	1 ¼ in	47.6 mm	127 mm	M10	94	48	167	SUCPPL207-20	**5ZMX8**
A	1 7⁄16 in	47.6 mm	127 mm	M10	94	48	167	SUCPPL207-23	**5TPV5**
A	1 ½ in	49.2 mm	137 mm	M10	98	54	184	SUCPPL208-24	**5TPV7**
A	20 mm	33.3 mm	95 mm	M8	65	38	127	SUCPPL204	**5TPT8**
A	25 mm	36.5 mm	105 mm	M8	71	38	140	SUCPPL205	**5TPV0**
A	30 mm	42.9 mm	119 mm	M10	83	46	162	SUCPPL206	**5TPV1**
A	35 mm	47.6 mm	127 mm	M10	94	48	167	SUCPPL207	**5TPV4**
A	40 mm	49.2 mm	137 mm	M10	98	54	184	SUCPPL208	**5TPV6**
2-Bolt Flange									
B	⅝ in	—	90 mm	M10	64.8	33.7	130	SUCNFL202-10	**5TPW5**
B	¾ in	—	90 mm	M10	64.8	33.7	130	SUCNFL204-12	**5TPW6**
B	1 in	—	99 mm	M10	70	36.7	130	SUCNFL205-16	**5ZMY6**
B	1 3⁄16 in	—	117 mm	M10	80	41.2	148	SUCNFL206-19	**5ZMY7**
B	1 ¼ in	—	117 mm	M10	80	41.2	148	SUCNFL206-20	**5TPW9**
B	1 ¼ in	—	130 mm	M12	90	43.4	163	SUCNFL207-20	**5ZMY8**
B	1 7⁄16 in	—	130 mm	M12	90	43.4	163	SUCNFL207-23	**5TPX0**
B	1 ½ in	—	144 mm	M12	100	51.7	175	SUCNFL208-24	**5TPX2**
B	20 mm	—	90 mm	M10	64.8	33.7	130	SUCNFL204	**5TPW4**
B	25 mm	—	99 mm	M10	70	36.7	130	SUCNFL205	**5TPW7**
B	30 mm	—	117 mm	M10	80	41.2	148	SUCNFL206	**5TPW8**
B	40 mm	—	144 mm	M12	100	51.7	175	SUCNFL208	**5TPX1**
3-Bolt Flange									
C	¾ in	—	1 ½ in	M10	62	33.7	108	SUCFBL204-12	**49C721**
C	1 in	—	1 ⅝ in	M10	63.5	41.2	120.6	SUCFBL205-16	**49C722**
C	1 3⁄16 in	—	1 ⅞ in	M10	76	41.5	138.5	SUCFBL206-19	**49C723**
C	1 ¼ in	—	1 ⅞ in	M10	76	41.5	138.5	SUCFBL206-20	**49C724**
C	1 7⁄16 in	—	2 in	M12	89	47.1	157	SUCFBL207-23	**49C725**
C	20 mm	—	38.1 mm	M10	62	33.7	108	SUCFBL204	**49C716**
C	25 mm	—	41.3 mm	M10	63.5	41.2	120.6	SUCFBL205	**49C717**
C	30 mm	—	47.6 mm	M10	76	41.5	138.5	SUCFBL206	**49C718**
C	35 mm	—	50.8 mm	M12	89	47.1	157	SUCFBL207	**49C719**
4-Bolt Flange									
D	¾ in	—	63.5 mm	M10	86	36.3	86	SUCFPL204-12	**5TPV9**
D	1 in	—	70 mm	M10	95	36.8	95	SUCFPL205-16	**5ZMY1**
D	1 3⁄16 in	—	83 mm	M10	107	41.4	107	SUCFPL206-19	**5TPW2**
D	1 ¼ in	—	83 mm	M10	107	41.4	107	SUCFPL206-20	**5ZMY2**
D	1 ¼ in	—	92 mm	M12	118	46.9	118	SUCFPL207-20	**5ZMY3**
D	1 7⁄16 in	—	92 mm	M12	118	46.9	118	SUCFPL207-23	**5ZMY4**

Key	Bore Dia.	Mounting Surface to Shaft Center	Bolt Hole Center-to-Center	Bolt Size	Overall Dim. (mm) H	W	L	Mfr. Model	Item No.
PBT Housing and Stainless Steel Insert with USDA-H1 Grease (Cont.)									
4-Bolt Flange (Cont.)									
D	1 ½ in	—	102 mm	M12	130	53.2	130	SUCFPL208-24	**5ZMY5**
D	20 mm	—	63.5 mm	M10	86	36.3	86	SUCFPL204	**5TPV8**
D	25 mm	—	70 mm	M10	95	36.8	95	SUCFPL205	**5TPW0**
D	30 mm	—	83 mm	M10	107	41.1	107	SUCFPL206	**5TPW1**
D	40 mm	—	102 mm	M12	130	53.2	130	SUCFPL208	**5TPW3**
PBT Housing and Stainless Steel Insert with USDA-H1 Solid Grease and Closed End Cap									
Pillow Block									
A	¾ in	1 5⁄16 in	3 ¾ in	⅜ in	2 9⁄16 in	2 ½ in	5 in	SUCPPL204-12CCFG1	**406U28**
A	1 in	1 7⁄16 in	4 ⅛ in	⅜ in	2 13⁄16 in	2 11⁄16 in	5 ½ in	SUCPPL205-16CCFG1	**406U29**
A	1 3⁄16 in	1 11⁄16 in	4 11⁄16 in	½ in	3 ¼ in	3 3⁄16 in	6 ⅜ in	SUCPPL206-19CCFG1	**406U30**
A	1 ¼ in	1 ⅞ in	5 in	½ in	3 11⁄16 in	3 9⁄16 in	6 9⁄16 in	SUCPPL207-20CCFG1	**406U31**
A	1 7⁄16 in	1 ⅞ in	5 in	½ in	3 11⁄16 in	3 9⁄16 in	6 9⁄16 in	SUCPPL207-23CCFG1	**406U32**
A	1 ½ in	1 15⁄16 in	5 ⅜ in	½ in	3 ⅞ in	4 1⁄16 in	7 ¼ in	SUCPPL208-24CCFG1	**406U33**
2-Bolt Flange									
B	¾ in	—	3 17⁄32 in	⅜ in	4 7⁄16 in	1 13⁄16 in	2 9⁄16 in	SUCNFL204-12CCFG1	**406U34**
B	1 in	—	3 ¾ in	⅜ in	5 ⅛ in	2 in	2 ¾ in	SUCNFL205-16CCFG1	**406U35**
B	1 3⁄16 in	—	4 ⅝ in	⅜ in	5 13⁄16 in	2 ¼ in	3 ⅛ in	SUCNFL206-19CCFG1	**406U36**
B	1 ¼ in	—	5 ⅛ in	½ in	6 7⁄16 in	2 7⁄16 in	3 9⁄16 in	SUCNFL207-20CCFG1	**406U37**
B	1 7⁄16 in	—	5 ⅛ in	½ in	6 7⁄16 in	2 7⁄16 in	3 9⁄16 in	SUCNFL207-23CCFG1	**406U38**
B	1 ½ in	—	5 11⁄16 in	½ in	6 ⅞ in	2 13⁄16 in	3 15⁄16 in	SUCNFL208-24CCFG1	**406U39**
4-Bolt Flange									
D	¾ in	—	2 ½ in	⅜ in	3 ⅜ in	1 ⅞ in	3 ⅜ in	SUCFPL204-12CCFG1	**406U40**
D	1 in	—	2 ¾ in	⅜ in	3 ¾ in	2 in	3 ¾ in	SUCFPL205-16CCFG1	**406U41**
D	1 3⁄16 in	—	3 ¼ in	⅜ in	4 3⁄16 in	2 5⁄16 in	4 3⁄16 in	SUCFPL206-19CCFG1	**406U42**
D	1 ¼ in	—	3 ⅝ in	½ in	4 ⅝ in	2 ½ in	4 ⅝ in	SUCFPL207-20CCFG1	**406U43**
D	1 7⁄16 in	—	3 ⅝ in	½ in	4 ⅝ in	2 ½ in	4 ⅝ in	SUCFPL207-23CCFG1	**406U44**
D	1 ½ in	—	4 in	½ in	5 ⅛ in	2 13⁄16 in	5 ⅛ in	SUCFPL208-24CCFG1	**406U45**
Stainless Steel Housing and Insert with USDA-H1 Solid Grease and Closed End Cap									
Pillow Block									
E	¾ in	1 5⁄16 in	3 ¾ in	⅜ in	2 9⁄16 in	1 ¾ in	4 15⁄16 in	SUCP204-12CCFG1	**406U46**
E	1 in	1 7⁄16 in	4 ⅛ in	⅜ in	2 ¾ in	1 ⅞ in	5 ½ in	SUCP205-16CCFG1	**406U47**
E	1 3⁄16 in	1 11⁄16 in	4 ¾ in	½ in	3 ¼ in	2 1⁄16 in	6 ½ in	SUCP206-19CCFG1	**406U48**
E	1 ¼ in	1 ⅞ in	5 in	½ in	3 11⁄16 in	2 5⁄16 in	6 9⁄16 in	SUCP207-20CCFG1	**406U49**
E	1 7⁄16 in	1 ⅞ in	5 in	½ in	3 11⁄16 in	2 5⁄16 in	6 9⁄16 in	SUCP207-23CCFG1	**406U50**
E	1 ½ in	1 15⁄16 in	5 ⅜ in	½ in	3 15⁄16 in	2 ¾ in	7 ¼ in	SUCP208-24CCFG1	**406U51**
2-Bolt Flange									
F	¾ in	—	3 17⁄32 in	⅜ in	4 7⁄16 in	1 7⁄16 in	2 5⁄16 in	SUCFL204-12CCFG1	**406U52**
F	1 in	—	3 57⁄64 in	½ in	4 15⁄16 in	1 9⁄16 in	2 11⁄16 in	SUCFL205-16CCFG1	**406U53**
F	1 3⁄16 in	—	4 ⅝ in	½ in	5 9⁄16 in	1 ¾ in	3 ⅛ in	SUCFL206-19CCFG1	**406U54**
F	1 ¼ in	—	5 ⅛ in	½ in	6 ⅛ in	1 ⅞ in	3 9⁄16 in	SUCFL207-20CCFG1	**406U55**
F	1 7⁄16 in	—	5 ⅛ in	½ in	6 ⅛ in	1 ⅞ in	3 9⁄16 in	SUCFL207-23CCFG1	**406U56**
F	1 ½ in	—	5 11⁄16 in	½ in	6 ¾ in	2 ⅛ in	3 15⁄16 in	SUCFL208-24CCFG1	**406U57**
4-Bolt Flange									
G	¾ in	—	3 17⁄32 in	⅜ in	3 ⅜ in	1 7⁄16 in	3 ⅜ in	SUCF204-12CCFG1	**406U58**
G	1 in	—	3 57⁄64 in	⅜ in	3 ¾ in	1 9⁄16 in	3 ¾ in	SUCF205-16CCFG1	**406U59**
G	1 3⁄16 in	—	4 ⅝ in	⅜ in	4 ¼ in	1 ¾ in	4 ¼ in	SUCF206-19CCFG1	**406U60**
G	1 ¼ in	—	5 ⅛ in	½ in	4 9⁄16 in	1 ⅞ in	4 9⁄16 in	SUCF207-20CCFG1	**406U61**
G	1 7⁄16 in	—	5 ⅛ in	½ in	4 9⁄16 in	1 ⅞ in	4 9⁄16 in	SUCF207-23CCFG1	**406U62**
G	1 ½ in	—	5 11⁄16 in	½ in	5 ⅛ in	2 ⅛ in	5 ⅛ in	SUCF208-24CCFG1	**406U63**

Key	Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Bearing Inserts with USDA-H1 Grease					
Zinc Chromate					
H	¾ in	47 mm	31 mm	ZUC204-12	**46N874**
H	1 in	52 mm	34.1 mm	ZUC205-16	**46N875**
H	1 3⁄16 in	62 mm	38.1 mm	ZUC206-19	**46N876**
H	1 ¼ in	62 mm	38.1 mm	ZUC206-20	**46N877**
H	1 7⁄16 in	72 mm	42.9 mm	ZUC207-23	**46N878**
H	1 ½ in	80 mm	49.2 mm	ZUC208-24	**46N879**
Stainless Steel					
H	1 3⁄16 in	62 mm	38.1 mm	SUC206-19	**5ZMZ1**
H	1 7⁄16 in	72 mm	42.9 mm	SUC207-23	**5ZMZ4**
H	1 ½ in	80 mm	49.2 mm	SUC208-24	**5ZMZ5**
Bearing Inserts with USDA-H1 Solid Grease					
Stainless Steel					
H	¾ in	47 mm	31 mm	SUC204-12FG1	**46N985**
H	1 in	52 mm	34.1 mm	SUC205-16FG1	**46N986**
H	1 3⁄16 in	62 mm	38.1 mm	SUC206-19FG1	**46N987**
H	1 ¼ in	62 mm	38.1 mm	SUC207-20FG1	**46N988**
H	1 7⁄16 in	72 mm	42.9 mm	SUC207-23FG1	**46N989**
H	1 ½ in	80 mm	49.2 mm	SUC208-24FG1	**46N990**

NTN

Insert Ball Bearings

- Relube type: prelubricated at factory
- Setscrew locking
- Include snap ring and groove
- Wide inner ring and protective flinger included

Bore Dia.	Outside Dia.	W	Dynamic Load Cap.	Mfr. Model	Item No.
½ in	47 mm	31 mm	2,890 lb	UCS201-008LD1NR	**5ZUJ8**
⅝ in	47 mm	31 mm	2,890 lb	UCS202-010LD1NR	**5ZUJ9**
¾ in	47 mm	31 mm	2,890 lb	UCS204-012LD1NR	**5ZUK0**
⅞ in	52 mm	34 mm	3,150 lb	UCS205-014LD1NR	**5ZUK1**
1 in	52 mm	34 mm	3,150 lb	UCS205-100LD1NR	**5ZUK2**
1 3/16 in	62 mm	38.1 mm	4,400 lb	UCS206-103LD1NR	**5ZUK3**
1 ¼ in	62 mm	38.1 mm	4,400 lb	UCS206-104LD1NR	**5ZUK4**
1 7/16 in	72 mm	42.9 mm	5,750 lb	UCS207-107LD1NR	**5ZUK5**
1 ½ in	80 mm	49.2 mm	6,550 lb	UCS208-108LD1NR	**5ZUK6**
2 in	100 mm	55.6 mm	9,750 lb	UCS211-200LD1NR	**5ZUK7**

Cone
1YTV2

Cup
1YTV3

NTN

Tapered Roller Bearings

Carry maximum combinations of radial and thrust loads simultaneously. Feature roller guiding inner ring construction. Roller bearing cones have steel cages and are nonlubricated. Use in lower-speed applications where there is a high degree of thrust or radial load, shock loads, and/or alternating thrust and radial loads.

Note: When replacing bearings, replace both cone and cup to ensure optimum performance and longer life.

Bore Dia.	Cone Width	Max. Shaft Fillet Radius	Dynamic Load Cap.	Static Load Cap.	Mfr. Model	Item No.
Cone						
0.75 in	0.875 in	0.05 in	6,300 lb	6,500 lb	4T-LM11949V1	**1YTV2**
1 in	0.875 in	0.05 in	6,450 lb	7,650 lb	4T-L44643	**1YTV6**
1 in	0.8125 in	0.14 in	10,500 lb	12,100 lb	4T-15100	**1YTU9**
1.25 in	0.78 in	—	7,750 lb	9,200 lb	4T-LM67048V2	**1YTV8**
1.375 in	0.78 in	0.005 in	10,500 lb	12,600 lb	4T-LM48548	**1YTV4**
1.375 in	0.875 in	0.09 in	14,600 lb	19,000 lb	4T-HM88649PX1	**1YTW1**
1.3775 in	0.78 in	—	8,000 lb	10,700 lb	4T-L68149V1	**1YTW3**
1.75 in	1.193 in	0.14 in	24,500 lb	33,500 lb	3782	**1YTW9**
1.7812 in	0.78 in	0.14 in	12,100 lb	17,100 lb	4T-LM102949	**1YTU7**
2 in	0.875 in	0.14 in	15,600 lb	21,100 lb	4T-LM104949	**1YTU5**
2.625 in	1.51 in	0.14 in	46,500 lb	62,500 lb	HM212049	**1YTX8**
2.625 in	1.1875 in	0.14 in	34,500 lb	50,000 lb	39590	**1YTX4**
2.875 in	1.1875 in	0.14 in	28,100 lb	43,500 lb	33287	**1YTX6**
3.25 in	1.3125 in	0.14 in	38,500 lb	61,500 lb	47686	**1YTX2**
3.25 in	1.4212 in	0.14 in	42,500 lb	64,500 lb	580	**1YTW5**
3.5 in	1.5625 in	0.25 in	61,000 lb	90,000 lb	HM518445	**1YTY3**
3.5423 in	1.5748 in	0.28 in	56,000 lb	87,500 lb	HM218248	**1YTY1**
3.75 in	1.43 in	0.2 in	44,500 lb	71,000 lb	594A	**1YTW7**

Outside Dia.	Cup Width	Bearing Width	Max. House Fillet Radius	Min. Housing Shoulder Dia.	Max. Housing Shoulder Dia.	Mfr. Model	Item No.
Cup							
1.57 in	0.42 in	0.545 in	0.05 in	1.34 in	1.46 in	4T-LM11910	**1YTV3**
1.781 in	0.475 in	0.61 in	0.05 in	1.56 in	1.63 in	4T-15245	**1YTV1**
1.781 in	0.475 in	0.61 in	0.05 in	2.953 in	3.071 in	4T-LM104911	**1YTU6**
1.8504 in	0.4375 in	0.5662 in	0.05 in	1.59 in	1.67 in	3720	**1YTX1**
1.9687 in	0.375 in	0.5313 in	0.04 in	1.75 in	1.85 in	4T-L44610	**1YTV7**
1.9687 in	0.55 in	0.69 in	0.05 in	1.73 in	1.81 in	HM518410	**1YTY4**
1.98 in	0.42 in	0.56 in	0.05 in	1.75 in	1.85 in	4T-LM67010	**1YTV9**
2.047 in	0.5 in	0.591 in	0.05 in	1.77 in	1.89 in	HM218210	**1YTY2**
2.328 in	0.465 in	0.625 in	0.05 in	2.05 in	2.2 in	4T-L68110	**1YTW4**
2.3612 in	0.47 in	0.625 in	0.05 in	2.09 in	2.2 in	4T-LM102910	**1YTU8**
2.4409 in	0.5625 in	0.75 in	0.05 in	2.17 in	2.28 in	39520	**1YTX5**
2.5625 in	0.55 in	0.71 in	0.05 in	2.28 in	2.4 in	47620	**1YTX3**
2.5625 in	0.55 in	0.71 in	0.05 in	2.32 in	2.44 in	592A	**1YTW8**
2.563 in	0.55 in	0.71 in	0.05 in	2.28 in	2.4 in	4T-LM48510	**1YTV5**
3.125 in	0.5313 in	0.6875 in	0.06 in	2.8 in	2.91 in	33472	**1YTX7**
5.7864 in	1.2795 in	1.5748 in	0.14 in	5.236 in	5.551 in	4T-HM88610PX1	**1YTW2**
6 in	1.1875 in	1.5625 in	0.13 in	5.315 in	5.669 in	HM212011	**1YTX9**

55PX43

NTN

Tapered Roller Bearing Assemblies

Commonly used in vehicles where the wheel bearings must handle large vertical (radial) and horizontal (axial) forces at the same time. Held together by an inner race that has a tapered surface for the bearings to roll against, and a flat inner radial surface to slide over a shaft. The outer race is the opposite design with the inner surface that's tapered, and the outer surface being flat. These tapered roller bearing assemblies are case-hardened steel construction and resist heat, heavy loads, humidity, and shocks. Suitable for use in hydraulic engines, gear motor transmissions, and locomotive axles.

Bore Dia. (mm)	Outside Dia. (mm)	Cone Width (mm)	Dynamic Load Cap. (lb.)	Static Load Cap. (lb.)	Mfr. Model	Item No.
15 mm	35 mm	10 mm	3,000 lb	2,770 lb	30202	**55PX43**
20 mm	42 mm	12 mm	5,600 lb	6,250 lb	32004X	**55PX54**
20 mm	47 mm	12 mm	6,350 lb	6,450 lb	30204	**55PX44**
20 mm	52 mm	13 mm	7,950 lb	7,600 lb	30304	**55PX51**
20 mm	52 mm	13 mm	8,000 lb	7,650 lb	30304A	**55PX52**
25 mm	47 mm	11.5 mm	6,250 lb	7,600 lb	32005X	**55PX55**
25 mm	52 mm	13 mm	7,100 lb	7,650 lb	30205	**55PX45**
25 mm	52 mm	18 mm	10,700 lb	12,900 lb	33205	**55PX65**
30 mm	55 mm	13 mm	8,400 lb	10,400 lb	32006X	**55PX56**
30 mm	62 mm	14 mm	9,800 lb	10,800 lb	30206	**55PX46**
30 mm	62 mm	17 mm	12,300 lb	14,400 lb	32206	**55PX61**
30 mm	62 mm	19.5 mm	14,600 lb	17,300 lb	33206	**55PX66**
30 mm	72 mm	23 mm	18,200 lb	20,200 lb	32306	**55PX62**
31.75 mm	59.13 mm	11.81 mm	7,750 lb	9,200 lb	LM67048/LM67010	**55PZ11**
35 mm	72 mm	15 mm	12,500 lb	13,800 lb	30207	**55PX47**
40 mm	68 mm	14.5 mm	11,300 lb	14,700 lb	32008X	**55PX57**
40 mm	80 mm	16 mm	13,800 lb	15,100 lb	30208	**55PX48**
40 mm	90 mm	27 mm	27,500 lb	33,500 lb	32308	**55PX63**
55 mm	90 mm	17.5 mm	18,100 lb	26,400 lb	32011X	**55PX58**
55 mm	100 mm	18 mm	20,900 lb	24,900 lb	30211	**55PX49**
65 mm	100 mm	17.5 mm	18,600 lb	28,700 lb	32013X	**55PX59**
95 mm	170 mm	27 mm	51,000 lb	65,000 lb	30219	**55PX50**
120 mm	180 mm	29 mm	55,000 lb	94,500 lb	32024X	**55PX60**

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Stud Type and Heavy Stud Type—Stud Type models are for loads and shock that are moderate. Heavy Stud Type is for applications with high loads and/or heavy shock and where deflection is low.

Yoke Type—Features an inner race made for shaft or clevis mounting.

Screwdriver Slot Head, Unsealed 13W661

Hex Socket Head, Sealed 13W746

Yoke Type, Unsealed 11Y167

Roller Dia.	Roller Width	Stud Dia.	Stud Length	Thread Size	SCREWDRIVER SLOT HEAD, UNSEALED Mfr. Model	Item No.	SCREWDRIVER SLOT HEAD, SEALED Mfr. Model	Item No.	HEX SOCKET HEAD, UNSEALED Mfr. Model	Item No.	HEX SOCKET HEAD, SEALED Mfr. Model	Item No.
Stud Type												
0.5 in	0.375 in	0.19 in	0.625 in	10-32	CR-1/2	**13W661**	CR-1/2-X	**13W682**	CR-1/2-B	**13W704**	CR-1/2-XB	**13W725**
0.5625 in	0.375 in	0.19 in	0.625 in	10-32	CR-9/16	**13W662**	CR-9/16-X	**13W683**	CR-9/16-B	**13W705**	CR-9/16-XB	**13W726**
0.625 in	0.4375 in	0.25 in	0.75 in	¼-28	CR-5/8	**13W663**	CR-5/8-X	**13W684**	CR-5/8-B	**13W706**	CR-5/8-XB	**13W727**
0.75 in	0.5 in	0.375 in	0.875 in	⅜-24	CR-3/4	**13W664**	CR-3/4-X	**13W685**	CR-3/4-B	**13W707**	CR-3/4-XB	**13W728**
0.875 in	0.5 in	0.375 in	0.875 in	⅜-24	CR-7/8	**13W665**	CR-7/8-X	**13W686**	CR-7/8-B	**13W708**	CR-7/8-XB	**13W729**
1 in	0.625 in	0.4375 in	1 in	7⁄16-20	CR-1	**13W666**	CR-1-X	**13W687**	CR-1-B	**13W709**	CR-1-XB	**13W730**
1.125 in	0.625 in	0.4375 in	1 in	7⁄16-20	CR-1-1/8	**13W667**	CR-1-1/8-X	**13W688**	CR-1-1/8-B	**13W710**	CR-1-1/8-XB	**13W731**
1.25 in	0.75 in	0.5 in	1.25 in	½-20	CR-1-1/4	**13W668**	CR-1-1/4-X	**13W689**	CR-1-1/4-B	**13W711**	CR-1-1/4-XB	**13W732**
1.375 in	0.75 in	0.5 in	1.25 in	½-20	CR-1-3/8	**13W669**	CR-1-3/8-X	**13W690**	CR-1-3/8-B	**13W712**	CR-1-3/8-XB	**13W733**
1.5 in	0.875 in	0.625 in	1.5 in	⅝-18	CR-1-1/2	**13W670**	CR-1-1/2-X	**13W691**	CR-1-1/2-B	**13W713**	CR-1-1/2-XB	**13W734**
1.625 in	0.875 in	0.625 in	1.5 in	⅝-18	CR-1-5/8	**13W671**	CR-1-5/8-X	**13W692**	CR-1-5/8-B	**13W714**	CR-1-5/8-XB	**13W735**
1.75 in	1 in	0.75 in	1.75 in	¾-16	CR-1-3/4	**13W672**	CR-1-3/4-X	**13W693**	CR-1-3/4-B	**13W715**	CR-1-3/4-XB	**13W736**
1.875 in	1 in	0.75 in	1.75 in	¾-16	CR-1-7/8	**13W673**	CR-1-7/8-X	**13W694**	CR-1-7/8-B	**13W716**	CR-1-7/8-XB	**13W737**
2 in	1.25 in	0.875 in	2 in	⅞-14	CR-2	**13W674**	CR-2-X	**13W695**	CR-2-B	**13W717**	CR-2-XB	**13W738**
2.25 in	1.25 in	0.875 in	2 in	⅞-14	CR-2-1/4	**13W675**	CR-2-1/4-X	**13W696**	CR-2-1/4-B	**13W718**	CR-2-1/4-XB	**13W739**
2.5 in	1.5 in	1 in	2.25 in	1-14	CR-2-1/2	**13W676**	CR-2-1/2-X	**13W697**	CR-2-1/2-B	**13W719**	CR-2-1/2-XB	**13W740**
2.75 in	1.5 in	1 in	2.25 in	1-14	CR-2-3/4	**13W677**	CR-2-3/4-X	**13W698**	CR-2-3/4-B	**13W720**	CR-2-3/4-XB	**13W741**
3 in	1.75 in	1.25 in	2.5 in	1¼-12	CR-3	**13W678**	CR-3-X	**13W699**	CR-3-B	**13W721**	CR-3-XB	**13W742**
3.25 in	1.75 in	1.25 in	2.5 in	1¼-12	CR-3-1/4	**13W679**	CR-3-1/4-X	**13W701**	CR-3-1/4-B	**13W722**	CR-3-1/4-XB	**13W743**
3.5 in	2 in	1.375 in	2.75 in	1⅜-12	CR-3-1/2	**13W680**	CR-3-1/2-X	**13W702**	CR-3-1/2-B	**13W723**	CR-3-1/2-XB	**13W744**
4 in	2.225 in	1.5 in	3.5 in	1½-12	CR-4	**13W681**	CR-4-X	**13W703**	CR-4-B	**13W724**	CR-4-XB	**13W745**
Heavy Stud Type												
0.5 in	0.375 in	0.25 in	0.625 in	¼-28	HR-1/2	**13W767**	HR-1/2-X	**11Y006**	HR-1/2-B	**11Y026**	HR-1/2-XB	**11Y046**
0.625 in	0.437 in	0.3125 in	0.75 in	5⁄16-24	HR-5/8	**13W768**	HR-5/8-X	**11Y007**	HR-5/8-B	**11Y027**	HR-5/8-XB	**11Y047**
0.75 in	0.5 in	0.4375 in	0.875 in	7⁄16-20	HR-3/4	**13W769**	HR-3/4-X	**11Y008**	HR-3/4-B	**11Y028**	HR-3/4-XB	**11Y048**
0.875 in	0.5 in	0.4375 in	0.875 in	7⁄16-20	HR-7/8	**13W770**	HR-7/8-X	**11Y009**	HR-7/8-B	**11Y029**	HR-7/8-XB	**11Y049**
1 in	0.625 in	0.625 in	1 in	⅝-18	HR-1	**13W771**	HR-1-X	**11Y010**	HR-1-B	**11Y030**	HR-1-XB	**11Y050**
1.125 in	0.625 in	0.625 in	1 in	⅝-18	HR-1-1/8	**13W772**	HR-1-1/8-X	**11Y011**	HR-1-1/8-B	**11Y031**	HR-1-1/8-XB	**11Y051**
1.25 in	0.75 in	0.75 in	1.25 in	¾-16	HR-1-1/4	**13W773**	HR-1-1/4-X	**11Y012**	HR-1-1/4-B	**11Y032**	HR-1-1/4-XB	**11Y052**
1.375 in	0.75 in	0.75 in	1.25 in	¾-16	HR-1-3/8	**11X992**	HR-1-3/8-X	**11Y013**	HR-1-3/8-B	**11Y033**	HR-1-3/8-XB	**11Y053**
1.5 in	0.875 in	0.875 in	1.5 in	⅞-14	HR-1-1/2	**11X993**	HR-1-1/2-X	**11Y014**	HR-1-1/2-B	**11Y034**	HR-1-1/2-XB	**11Y054**
1.625 in	0.875 in	0.875 in	1.5 in	⅞-14	HR-1-5/8	**11X994**	HR-1-5/8-X	**11Y015**	HR-1-5/8-B	**11Y035**	HR-1-5/8-XB	**11Y055**
1.75 in	1 in	1 in	1.75 in	1-14	HR-1-3/4	**11X995**	HR-1-3/4-X	**11Y016**	HR-1-3/4-B	**11Y036**	HR-1-3/4-XB	**11Y056**
1.875 in	1 in	1 in	1.75 in	1-14	HR-1-7/8	**11X996**	HR-1-7/8-X	**11Y017**	HR-1-7/8-B	**11Y037**	HR-1-7/8-XB	**11Y057**
2 in	1.25 in	1.125 in	2 in	1⅛-12	HR-2	**11X997**	HR-2-X	**11Y018**	HR-2-B	**11Y038**	HR-2-XB	**11Y058**
2.25 in	1.25 in	1.125 in	2 in	1⅛-12	HR-2-1/4	**11X998**	HR-2-1/4-X	**11Y019**	HR-2-1/4-B	**11Y039**	HR-2-1/4-XB	**11Y059**
2.5 in	1.5 in	1.25 in	2.25 in	1¼-12	HR-2-1/2	**11X999**	HR-2-1/2-X	**11Y020**	HR-2-1/2-B	**11Y040**	HR-2-1/2-XB	**11Y060**
2.75 in	1.5 in	1.25 in	2.25 in	1¼-12	HR-2-3/4	**11Y001**	HR-2-3/4-X	**11Y021**	HR-2-3/4-B	**11Y041**	HR-2-3/4-XB	**11Y061**
3 in	1.75 in	1.5 in	2.5 in	1½-12	HR-3	**11Y002**	HR-3-X	**11Y022**	HR-3-B	**11Y042**	HR-3-XB	**11Y062**
3.25 in	1.75 in	1.5 in	2.5 in	1½-12	HR-3-1/4	**11Y003**	HR-3-1/4-X	**11Y023**	HR-3-1/4-B	**11Y043**	HR-3-1/4-XB	**11Y063**
3.5 in	2 in	1.75 in	2.75 in	1¾-12	HR-3-1/2	**11Y004**	HR-3-1/2-X	**11Y024**	HR-3-1/2-B	**11Y044**	HR-3-1/2-XB	**11Y064**
4 in	2.25 in	2 in	3.5 in	2-12	HR-4	**11Y005**	HR-4-X	**11Y025**	HR-4-B	**11Y045**	HR-4-XB	**11Y065**

Roller Dia.	Roller Width	Stud Dia.	Stud Length	Thread Size	HEX SOCKET HEAD, SEALED Mfr. Model	Item No.
Stud Type, Eccentric						
0.5 in	0.375 in	0.19 in	0.625 in	10-32	CR-1/2-XBE	**13W746**
0.5625 in	0.375 in	0.19 in	0.625 in	10-32	CR-9/16-XBE	**13W747**
0.625 in	0.4375 in	0.25 in	0.75 in	¼-28	CR-5/8-XBE	**13W748**
0.75 in	0.5 in	0.375 in	0.875 in	⅜-24	CR-3/4-XBE	**13W749**
0.875 in	0.5 in	0.375 in	0.875 in	⅜-24	CR-7/8-XBE	**13W750**
1 in	0.625 in	0.4375 in	1 in	7⁄16-20	CR-1-XBE	**13W751**
1.125 in	0.625 in	0.4375 in	1 in	7⁄16-20	CR-1-1/8-XBE	**13W752**
1.25 in	0.75 in	0.5 in	1.25 in	½-20	CR-1-1/4-XBE	**13W753**
1.375 in	0.75 in	0.5 in	1.25 in	½-20	CR-1-3/8-XBE	**13W754**
1.5 in	0.875 in	0.625 in	1.5 in	⅝-18	CR-1-1/2-XBE	**13W755**
1.625 in	0.875 in	0.625 in	1.5 in	⅝-18	CR-1-5/8-XBE	**13W756**
1.75 in	1 in	0.75 in	1.75 in	¾-16	CR-1-3/4-XBE	**13W757**
1.875 in	1 in	0.75 in	1.75 in	¾-16	CR-1-7/8-XBE	**13W758**
2 in	1.25 in	0.875 in	2 in	⅞-14	CR-2-XBE	**13W759**
2.25 in	1.25 in	0.875 in	2 in	⅞-14	CR-2-1/4-XBE	**13W760**
2.5 in	1.5 in	1 in	2.25 in	1-14	CR-2-1/2-XBE	**13W761**
2.75 in	1.5 in	1 in	2.25 in	1-14	CR-2-3/4-XBE	**13W762**
3 in	1.75 in	1.25 in	2.5 in	1¼-12	CR-3-XBE	**13W763**
3.25 in	1.75 in	1.25 in	2.5 in	1¼-12	CR-3-1/4-XBE	**13W764**
3.5 in	2 in	1.375 in	2.75 in	1⅜-12	CR-3-1/2-XBE	**13W765**
4 in	2.225 in	1.5 in	3.5 in	1½-12	CR-4-XBE	**13W766**

Bore Dia.	Roller Dia.	Roller Width	UNSEALED Mfr. Model	Item No.	SEALED Mfr. Model	Item No.
Yoke Type						
0.25 in	0.75 in	0.5 in	YR-3/4	**11Y167**	YR-3/4-X	**11Y185**
0.25 in	0.875 in	0.5 in	YR-7/8	**11Y168**	YR-7/8-X	**11Y186**
0.3125 in	1 in	0.625 in	YR-1	**11Y169**	YR-1-X	**11Y187**
0.3125 in	1.125 in	0.625 in	YR-1-1/8	**11Y170**	YR-1-1/8-X	**11Y188**
0.375 in	1.25 in	0.75 in	YR-1-1/4	**11Y171**	YR-1-1/4-X	**11Y189**
0.375 in	1.375 in	0.75 in	YR-1-3/8	**11Y172**	YR-1-3/8-X	**11Y190**
0.4375 in	1.5 in	0.875 in	YR-1-1/2	**11Y173**	YR-1-1/2-X	**11Y191**
0.4375 in	1.625 in	0.875 in	YR-1-5/8	**11Y174**	YR-1-5/8-X	**11Y192**
0.5 in	1.75 in	1 in	YR-1-3/4	**11Y175**	YR-1-3/4-X	**11Y193**
0.5 in	1.875 in	1 in	YR-1-7/8	**11Y176**	YR-1-7/8-X	**11Y194**
0.625 in	2 in	1.25 in	YR-2	**11Y177**	YR-2-X	**11Y195**
0.625 in	2.25 in	1.25 in	YR-2-1/4	**11Y178**	YR-2-1/4-X	**11Y196**
0.75 in	2.5 in	1.5 in	YR-2-1/2	**11Y179**	YR-2-1/2-X	**11Y197**
0.75 in	2.75 in	1.5 in	YR-2-3/4	**11Y180**	YR-2-3/4-X	**11Y198**
1 in	3 in	1.75 in	YR-3	**11Y181**	YR-3-X	**11Y199**
1 in	3.25 in	1.75 in	YR-3-1/4	**11Y182**	YR-3-1/4-X	**11Y201**
1.125 in	3.5 in	2 in	YR-3-1/2	**11Y183**	YR-3-1/2-X	**11Y202**
1.25 in	4 in	2.25 in	YR-4	**11Y184**	YR-4-X	**11Y203**

Double Shielded 1ZGD8

Double Sealed 1ZGE4

Dayton

Single-Row Radial Ball Bearings

- Operating temp. range: -65° to 250°F

Motor-quality low-friction, 52100 chrome steel industrial ball bearings are suitable for radial and thrust load applications that require precise low-torque rotation. Use flanged bearings for easier plate mounting. Noncontact, stainless steel shields reduce contamination without adding drag. Light-contact rubber seals protect the bearing, but with slightly higher drag. All are lubricated with general-purpose grease. Meet industry standard ABEC specifications.

Bore Dia.	Outside Dia.	W	Flange Dia.	Flange Thickness	Dynamic Load Cap.	Static Load Cap.	DOUBLE SHIELDED Industry No.	DOUBLE SHIELDED Item No.	DOUBLE SEALED Industry No.	DOUBLE SEALED Item No.
Inch Series										
0.125 in	0.375 in	0.1562 in	—	—	142 lb	49 lb	R2-ZZ	**1ZGB8**	R2-2RS	**1ZGC8**
0.125 in	0.5 in	0.1719 in	—	—	292 lb	51 lb	R2A-ZZ	**1ZGB9**	R2A-2RS	**1ZGC9**
0.1875 in	0.5 in	0.196 in	—	—	292 lb	110 lb	R3ZZ	**1ZGC1**	R3-2RS	**1ZGD1**
0.25 in	0.625 in	0.196 in	—	—	333 lb	140 lb	R4ZZ	**1ZGC2**	R4-2RS	**1ZGD2**
0.25 in	0.75 in	0.2812 in	—	—	526 lb	199 lb	R4AZZ	**1ZGC3**	R4A-2RS	**1ZGD3**
0.375 in	0.875 in	0.2812 in	—	—	742 lb	315 lb	R6ZZ	**1ZGC4**	R6-2RS	**1ZGD4**
0.5 in	1.125 in	0.3125 in	—	—	879 lb	504 lb	R8ZZ	**1ZGC5**	R8-2RS	**1ZGD5**
0.625 in	1.375 in	0.3438 in	—	—	1,035 lb	624 lb	R10ZZ	**1ZGC6**	R10-2RS	**1ZGD6**
0.75 in	1.625 in	0.4375 in	—	—	1,628 lb	1,003 lb	R12ZZ	**1ZGC7**	R12-2RS	**1ZGD7**
1 in	2 in	0.5 in	—	—	2,261 lb	1,364 lb	R16-ZZ	**21XU35**	R16-2RS	**21XU40**
Inch Series With Flange										
0.125 in	0.375 in	0.1562 in	0.44 in	0.031 in	142 lb	49 lb	FR2-ZZ	**1ZGD8**	FR2-2RS	**1ZGE4**
0.1875 in	0.5 in	0.196 in	0.565 in	0.042 in	292 lb	110 lb	FR3ZZ	**1ZGD9**	FR3-2RS	**1ZGE5**
0.25 in	0.625 in	0.196 in	0.69 in	0.042 in	333 lb	140 lb	FR4ZZ	**1ZGE1**	FR4-2RS	**1ZGE6**
0.375 in	0.875 in	0.2812 in	0.969 in	0.062 in	749 lb	320 lb	FR6ZZ	**1ZGE2**	FR6-2RS	**1ZGE7**
0.5 in	1.125 in	0.3125 in	1.225 in	0.062 in	884 lb	501 lb	FR8ZZ	**1ZGE3**	FR8-2RS	**1ZGE8**
Special Standard Bore Series										
0.5 in	32 mm	10 mm	—	—	—	—	6201ZZ/12.7-C3	**21XU45**	—	—
0.625 in	40 mm	12 mm	—	—	—	—	6203ZZ/15.875-C3	**21XU41**	—	—

Bore Dia.	Outside Dia.	W	DOUBLE SHIELDED Dynamic Load Cap. lb.	DOUBLE SHIELDED Static Load Cap.	DOUBLE SHIELDED Industry No.	DOUBLE SHIELDED Item No.	DOUBLE SEALED Dynamic Load Cap. lb.	DOUBLE SEALED Static Load Cap.	DOUBLE SEALED Industry No.	DOUBLE SEALED Item No.
Metric Series										
6 mm	19 mm	6 mm	—	—	—	—	525 lb.	201 lb.	626-2RS-C3	**21XU46**
7 mm	19 mm	6 mm	—	—	—	—	525 lb.	201 lb.	607-2RS-C3	**21XU48**
	22 mm	7 mm	739 lb.	310 lb.	627ZZ-C3	**21XU34**	—	—	—	—
8 mm	22 mm	7 mm	740 lb.	310 lb.	608ZZ-C3	**21XU33**	740 lb.	310 lb.	608-2RS-C3	**21XU39**
9 mm	24 mm	7 mm	754 lb.	324 lb.	609ZZ	**21XU44**	—	—	—	—
10 mm	19 mm	5 mm	234 lb.	169 lb.	6800ZZ	**1ZGH6**	—	—	—	—
	22 mm	6 mm	605 lb.	286 lb.	6900ZZ	**1ZGJ7**	—	—	—	—
	26 mm	8 mm	1030 lb.	445 lb.	6000ZZ	**1ZGE9**	1030 lb.	440 lb.	6000-2RS	**1ZGF6**
	30 mm	9 mm	1147 lb.	535 lb.	6200ZZ	**1ZGG3**	1150 lb.	540 lb.	6200-2RS	**1ZGG9**
12 mm	21 mm	5 mm	315 lb.	202 lb.	6801ZZ	**1ZGH7**	—	—	—	—
	24 mm	6 mm	650 lb.	328 lb.	6901ZZ	**1ZGJ8**	—	—	—	—
	28 mm	8 mm	1147 lb.	—	6001ZZ	**1ZGF1**	1147 lb.	535 lb.	6001-2RS	**1ZGF7**
	32 mm	10 mm	1533 lb.	686 lb.	6201ZZ	**1ZGG4**	1370 lb.	615 lb.	6201-2RS	**1ZGH1**
15 mm	24 mm	5 mm	432 lb.	—	6802ZZ	**1ZGH8**	—	—	—	—
	28 mm	7 mm	971 lb.	506 lb.	6902ZZ	**1ZGJ9**	—	—	—	—
	32 mm	9 mm	1254 lb.	641 lb.	6002ZZ	**1ZGF2**	1254 lb.	641 lb.	6002-2RS	**1ZGF8**
	35 mm	11 mm	1720 lb.	836 lb.	6202ZZ	**1ZGG5**	1720 lb.	836 lb.	6202-2RS	**1ZGH2**
	42 mm	13 mm	—	—	—	—	2563 lb.	1225 lb.	6302-2RS-C3	**21XU47**
17 mm	26 mm	5 mm	490 lb.	288 lb.	6803ZZ	**1ZGH9**	—	—	—	—
	30 mm	7 mm	1032 lb.	573 lb.	6903ZZ	**1ZGK1**	—	—	—	—
	35 mm	10 mm	1349 lb.	751 lb.	6003ZZ	**1ZGF3**	1349 lb.	751 lb.	6003-2RS	**1ZGF9**
	40 mm	12 mm	2159 lb.	1005 lb.	6203ZZ	**1ZGG6**	2159 lb.	1005 lb.	6203-2RS	**1ZGH3**
	47 mm	14 mm	3057 lb.	1494 lb.	6303ZZ-C3	**21XU52**	3057 lb.	1494 lb.	6303-2RS-C3	**21XU56**
20 mm	32 mm	7 mm	776 lb.	506 lb.	6804ZZ	**1ZGJ1**	—	—	—	—
	37 mm	9 mm	1432 lb.	627 lb.	6904ZZ	**1ZGK2**	—	—	—	—
	42 mm	12 mm	2109 lb.	1129 lb.	6004ZZ	**1ZGF4**	2109 lb.	1129 lb.	6004-2RS	**1ZGG1**
	47 mm	14 mm	2221 lb.	1394 lb.	6204ZZ	**1ZGG7**	2221 lb.	1394 lb.	6204-2RS	**1ZGH4**
	52 mm	15 mm	—	—	—	—	3574 lb.	1764 lb.	6304-2RS-C3	**21XU57**
25 mm	47 mm	12 mm	2271 lb.	1315 lb.	6005ZZ	**1ZGF5**	2271 lb.	—	6005-2RS	**1ZGG2**
	52 mm	15 mm	2429 lb.	1569 lb.	6205ZZ	**1ZGG8**	2429 lb.	1569 lb.	6205-2RS	**1ZGH5**
	62 mm	17 mm	—	—	—	—	5782 lb.	2491 lb.	6305-2RS-C3	**21XU58**
30 mm	55 mm	13 mm	—	—	—	—	2967 lb.	1854 lb.	6006-2RS-C3	**21XU42**
	62 mm	16 mm	4384 lb.	2540 lb.	6206ZZ-C3	**21XU36**	4392 lb.	2538 lb.	6206-2RS-C3	**21XU49**
	72 mm	19 mm	5957 lb.	3370 lb.	6306ZZ-C3	**21XU53**	6002 lb.	3372 lb.	6306-2RS-C3	**21XU59**
35 mm	62 mm	14 mm	—	—	—	—	3640 lb.	2322 lb.	6007-2RS-C3	**21XU43**
	72 mm	17 mm	5793 lb.	3482 lb.	6207ZZ-C3	**21XU37**	5778 lb.	3462 lb.	6207-2RS-C3	**21XU50**
	80 mm	21 mm	7509 lb.	4338 lb.	6307ZZ-C3	**21XU54**	7509 lb.	4338 lb.	6307-2RS-C3	**21XU60**
40 mm	80 mm	18 mm	6542 lb.	4001 lb.	6208ZZ-C3	**21XU38**	6542 lb.	4001 lb.	6208-2RS-C3	**21XU51**
45 mm	100 mm	25 mm	10,993 lb.	6631 lb.	6309ZZ-C3	**21XU55**	10,993 lb.	6631 lb.	6309-2RS-C3	**21XU61**

Bore Dia.	Outside Dia.	W	Flange Dia.	Flange Thickness	DOUBLE SHIELDED Dynamic Load Cap. lb.	DOUBLE SHIELDED Static Load Cap.	DOUBLE SHIELDED Industry No.	DOUBLE SHIELDED Item No.
Metric Series With Flange								
10 mm	19 mm	5 mm	21.0 mm	1.0 mm	382 lb.	188 lb.	F6800ZZ	**1ZGJ2**
	22 mm	6 mm	25.0 mm	1.5 mm	587 lb.	275 lb.	F6900ZZ	**1ZGK3**
12 mm	21 mm	5 mm	23.0 mm	1.1 mm	429 lb.	234 lb.	F6801ZZ	**1ZGJ3**
	24 mm	6 mm	26.5 mm	1.5 mm	636 lb.	317 lb.	F6901ZZ	**1ZGK4**
15 mm	24 mm	5 mm	26.0 mm	1.1 mm	466 lb.	282 lb.	F6802ZZ	**1ZGJ4**
	28 mm	7 mm	30.5 mm	1.5 mm	971 lb.	508 lb.	F6902ZZ	**1ZGK5**
17 mm	26 mm	5 mm	28.0 mm	1.1 mm	502 lb.	327 lb.	F6803ZZ	**1ZGJ5**
	30 mm	7 mm	32.5 mm	1.5 mm	1031 lb.	577 lb.	F6903ZZ	**1ZGK6**

54DD78

NTN

Single-Row Radial Ball Bearings with Food Grade Solid Lubrication

440C stainless steel cage. Double sealed. Temp. range: 14° to 212°F. FDA/USDA Approved H1 Solid Grease.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
6000 Series				
10 mm	26 mm	8 mm	S6000 2RS FG1	**54DD78**
12 mm	28 mm	8 mm	S6001 2RS FG1	**54DD79**
15 mm	32 mm	9 mm	S6002 2RS FG1	**54DD81**
17 mm	35 mm	10 mm	S6003 2RS FG1	**54DD83**
20 mm	42 mm	12 mm	S6004 2RS FG1	**54DD85**
25 mm	47 mm	12 mm	S6005 2RS FG1	**54DD87**
30 mm	55 mm	13 mm	S6006 2RS FG1	**54DD89**
35 mm	62 mm	14 mm	S6007 2RS FG1	**54DD91**
6200 Series				
12 mm	32 mm	10 mm	S6201 2RS FG1	**54DD80**
15 mm	35 mm	11 mm	S6202 2RS FG1	**54DD82**
17 mm	40 mm	12 mm	S6203 2RS FG1	**54DD84**
20 mm	47 mm	14 mm	S6204 2RS FG1	**54DD86**
25 mm	52 mm	15 mm	S6205 2RS FG1	**54DD88**
30 mm	62 mm	16 mm	S6206 2RS FG1	**54DD90**
35 mm	72 mm	17 mm	S6207 2RS FG1	**54DD92**

4YVY6

FAG

Self-Aligning Double-Row Radial Ball Bearings

Provide support for radial and axial loads on shafts that are constantly misaligning and deflecting. Double contact sealed with a glass fiber-reinforced polyamide cage.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
12 mm	32 mm	14 mm	2201-2RS-TVH	**4YVY6**
15 mm	35 mm	14 mm	2202-2RS-TVH	**4YVY7**
17 mm	40 mm	16 mm	2203-2RS-TVH	**4YVY8**
20 mm	47 mm	18 mm	2204-2RS-TVH	**4YVY9**
25 mm	52 mm	18 mm	2205-2RS-TVH	**4YVZ1**
30 mm	62 mm	20 mm	2206-2RS-TVH	**4YVZ2**
35 mm	72 mm	23 mm	2207-2RS-TVH	**4YVZ3**
40 mm	80 mm	23 mm	2208-2RS-TVH	**4YVZ4**

Single-Row Radial Ball Bearings

NTN

Prelubricated, permanently sealed bearings offer a lifetime of quiet, maintenance-free operation. Seal is made of synthetic rubber molded to a steel plate. V-shaped groove acts as a "flinger" to keep dirt out. Shielded bearings have a shield made of rust-resistant metal. Cages constructed of pressed steel. Bearings are individually wrapped and boxed to protect from contaminants during shipping and storage. Meet or exceed industry standards.

Double Sealed

Double Shielded

Bore Dia.	Outside Dia.	W	OPEN Mfr. Model	OPEN Item No.	DOUBLE SHIELDED Mfr. Model	DOUBLE SHIELDED Item No.	DOUBLE SEALED Mfr. Model	DOUBLE SEALED Item No.	DOUBLE CONTACT SEALED Mfr. Model	DOUBLE CONTACT SEALED Item No.
600 Series										
4 mm	13 mm	5 mm	—	—	624ZZ/1K	**5U557**	—	—	—	—
5 mm	16 mm	5 mm	—	—	625ZZC3/5K	**5U592**	—	—	—	—
6 mm	19 mm	6 mm	—	—	626ZZC3/L627	**5U593**	626LLBC3/L627	**5U558**	—	—
7 mm	19 mm	6 mm	—	—	607ZZC3/1K	**5U526**	607LLBC3/L627	**5U591**	—	—
7 mm	22 mm	7 mm	—	—	627ZZC3/L627	**1L002**	627LLB/1K	**1L036**	—	—
8 mm	22 mm	7 mm	—	—	608ZZC3/L627	**1L001**	608LLBC3/5C	**1L035**	—	—
8 mm	24 mm	8 mm	—	—	628ZZ/1K	**5U560**	628LLB/1K	**5U559**	—	—
9 mm	24 mm	7 mm	—	—	609JX2ZZ/1K	**5U530**	—	—	—	—
9 mm	26 mm	8 mm	—	—	629X50ZZC3/L627	**1L003**	629X50LLBC3/L627	**1L037**	—	—
6000 Series										
10 mm	26 mm	8 mm	6000C3	**4ZXA3**	6000ZZC3/L627	**1L010**	6000LLBC3/L627	**1L044**	6001JRXUC3	**4ZXA4**
12 mm	28 mm	8 mm	6001JRXUC3	**4ZXA5**	6001ZZC3/L627	**1L011**	6001LLBC3/L627	**1L045**	6001LLUC3/L627	**4ZXA6**
15 mm	32 mm	9 mm	6002C3	**4ZXA7**	6002ZZC3/L627	**5U494**	6002LLBC3/L627	**5U493**	6002LLUC3/L627	**4ZXA8**
17 mm	35 mm	10 mm	6003C3	**4ZXA9**	6003ZZC3/L627	**5U496**	6003LLBC3/L627	**5U495**	6003LLUC3/L627	**4ZXC1**
20 mm	42 mm	12 mm	6004C3	**4ZXC2**	6004ZZC3/L627	**5U498**	6004LLBC3/L627	**5U497**	6004LLUC3/L627	**4ZXC3**
25 mm	47 mm	12 mm	6005C3	**4ZXC4**	6005ZZC3/L627	**1L012**	6005LLBC3/L627	**1L046**	6005LLUC3/L627	**4ZXC5**
30 mm	55 mm	13 mm	6006C3	**4ZXC6**	6006ZZC3/L627	**5U500**	6006LLBC3/L627	**5U499**	6006LLUC3/L627	**4ZXC7**
35 mm	62 mm	14 mm	6007C3	**4ZXC8**	6007ZZC3/L627	**5U502**	6007LLBC3/L627	**5U501**	6007LLUC3/L627	**4ZXC9**
40 mm	68 mm	15 mm	6008C3	**4ZXD1**	6008ZZC3/L627	**5U504**	6008LLBC3/L627	**5U503**	6008LLUC3/L627	**4ZXD2**
45 mm	75 mm	16 mm	6009C3	**4ZXD3**	6009ZZC3/L627	**5U506**	6009LLBC3/L627	**5U505**	6009LLUC3/5C	**4ZXD4**
50 mm	80 mm	16 mm	6010C3	**4ZXD5**	6010ZZC3/L627	**5U508**	6010LLBC3/L627	**5U507**	6010LLUC3/L627	**4ZXD6**
55 mm	90 mm	18 mm	6011C3	**4ZXD7**	—	—	6011LLBC3/L627	**5U582**	6011LLUC3/L627	**4ZXD8**
60 mm	95 mm	18 mm	6012C3	**4ZXD9**	6012ZZC3/L627	**5U511**	6012LLBC3/L627	**5U510**	6012LLUC3/L627	**4ZXE1**
6200 Series										
10 mm	30 mm	9 mm	6200C3	**4ZXE2**	6200ZZC3/L627	**1L013**	6200LLBC3/L627	**6L022**	6200LLUC3/L627	**4ZXE3**
12 mm	32 mm	10 mm	6201C3	**4ZXE4**	6201ZZC3/L627	**1L014**	6201LLBC3/L627	**6L023**	6201LLUC3/L627	**4ZXE5**
15 mm	35 mm	11 mm	6202C3	**4ZXE6**	6202ZZC3/L627	**1L015**	6202LLBC3/L627	**6L024**	6202LLUC3/L627	**4ZXE7**
17 mm	40 mm	12 mm	6203C3	**4ZXE8**	6203ZZC3/L627	**1L016**	6203LLBC3/L627	**6L025**	6203LLUC3/L627	**4ZXE9**
20 mm	47 mm	14 mm	6204C3	**4ZXF1**	6204ZZC3/L627	**1L017**	6204LLBC3/L627	**6L026**	6204LLUC3/L627	**4ZXF2**
25 mm	52 mm	15 mm	6205C3	**4ZXF3**	6205ZZC3/L627	**1L018**	6205LLBC3/L627	**6L027**	6205LLUC3/L627	**4ZXF4**
30 mm	62 mm	16 mm	6206C3	**4ZXF5**	6206ZZC3/L627	**1L019**	6206LLBC3/L627	**6L028**	6206LLUC3/L627	**4ZXF6**
35 mm	72 mm	17 mm	6207C3	**4ZXF7**	6207ZZC3/L627	**1L020**	6207LLBC3/L627	**6L029**	6207LLUC3/L627	**4ZXF8**
40 mm	80 mm	18 mm	6208C3	**4ZXF9**	6208ZZC3/L627	**1L021**	6208LLBC3/L627	**6L030**	6208LLUC3/L627	**4ZXG1**
45 mm	85 mm	19 mm	6209C3	**4ZXG2**	6209ZZC3/L627	**1L022**	6209LLBC3/L627	**6L031**	6209LLUC3/L627	**4ZXG3**
50 mm	90 mm	20 mm	6210C3	**4ZXG4**	6210ZZC3/L627	**1L023**	6210LLBC3/L627	**6L032**	6210LLUC3/L627	**4ZXG5**
55 mm	100 mm	21 mm	6211C3	**4ZXG6**	6211ZZC3/L627	**1L024**	6211LLBC3/L627	**6L033**	6211LLUC3/L627	**4ZXG7**
60 mm	110 mm	22 mm	6212C3	**4ZXG8**	6212ZZC3/L627	**1L025**	6212LLBC3/L627	**6L034**	6212LLUC3/L627	**4ZXG9**
6300 Series										
10 mm	35 mm	11 mm	—	—	6300ZZC3/L627	**5U562**	6300LLBC3/L627	**5U561**	6300LLUC3/L627	**4ZXH1**
12 mm	37 mm	12 mm	6301C3	**4ZXH2**	6301ZZC3/L627	**5U564**	6301LLBC3/L627	**5U563**	6301LLUC3/L627	**4ZXH3**
15 mm	42 mm	13 mm	6302C3	**4ZXH4**	6302ZZC3/L627	**5U566**	6302LLBC3/L627	**5U565**	6302LLUC3/L627	**4ZXH5**
17 mm	47 mm	14 mm	6303C3	**4ZXH6**	6303ZZC3/L627	**6L035**	6303LLBC3/5C	**6L052**	6303LLUC3/L627	**4ZXH7**
20 mm	52 mm	15 mm	6304C3	**4ZXH8**	6304ZZC3/L627	**6L036**	6304LLBC3/L627	**6L053**	6304LLUC3/L627	**4ZXH9**
25 mm	62 mm	17 mm	6305C3	**4ZXJ1**	6305ZZC3/L627	**6L037**	6305LLBC3/L627	**6L054**	6305LLUC3/L627	**4ZXJ2**
30 mm	72 mm	19 mm	6306C3	**4ZXJ3**	6306ZZC3/L627	**6L038**	6306LLBC3/L627	**6L055**	6306LLUC3/L627	**4ZXJ4**
35 mm	80 mm	21 mm	6307C3	**4ZXJ5**	6307ZZC3/L627	**6L039**	6307LLBC3/L627	**6L056**	6307LLUC3/L627	**4ZXJ6**
40 mm	90 mm	23 mm	6308C3	**4ZXJ7**	6308ZZC3/L627	**6L040**	6308LLBC3/L627	**6L057**	6308LLUC3/L627	**4ZXJ8**
45 mm	100 mm	25 mm	6309C3	**4ZXJ9**	6309ZZC3/L627	**6L041**	6309LLBC3/L627	**6L058**	6309LLUC3/L627	**4ZXK1**
50 mm	110 mm	27 mm	6310C3	**4ZXK2**	6310ZZC3/L627	**6L042**	6310LLBC3/L627	**6L059**	6310LLUC3/L627	**4ZXK3**
55 mm	120 mm	29 mm	6311C3	**4ZXK4**	6311ZZC3/L627	**6L043**	6311LLBC3/L627	**6L060**	6311LLUC3/L627	**4ZXK5**
60 mm	130 mm	31 mm	6312C3	**4ZXK6**	6312ZZC3/L627	**6L044**	6312LLBC3/L627	**5U567**	6312LLUC3/L627	**4ZXK7**

Bore Dia.	Outside Dia.	W	DOUBLE SHIELDED Mfr. Model	DOUBLE SHIELDED Item No.	DOUBLE SEALED Mfr. Model	DOUBLE SEALED Item No.
R Series						
0.1875 in	0.5 in	0.196 in	RA3ZZ/2AS	**5U482**	RA3LL/L627	**5U481**
0.25 in	0.625 in	0.196 in	R4ZZC3/2AS	**5U490**	R4LL/2AS	**5U489**
0.375 in	0.875 in	0.2812 in	R6ZZC3/L627	**1L004**	R6LLBC3/5C	**1L038**
0.5 in	1.125 in	0.3125 in	R8ZZC3/5C	**1L005**	R8LLBC3/5C	**1L039**
0.625 in	1.375 in	0.3437 in	R10ZZC3/L627	**1L006**	R10LLBC3/L627	**1L040**
0.75 in	1.625 in	0.4375 in	R12ZZC3/L627	**1L007**	R12LLBC3/L627	**1L041**
0.875 in	1.875 in	0.5 in	R14ZZ/2AS	**1L008**	R14LLB/2AS	**1L042**
1 in	2 in	0.5 in	R16ZZ/2AS	**1L009**	R16LLB/2AS	**1L043**
1.125 in	2.125 in	0.5 in	R18ZZ/2AS	**5U486**	R18LLU/2AS	**5U485**
1.25 in	2.25 in	0.5 in	R20ZZ/2AS	**5U488**	R20LL/2AS	**5U487**
Special Standard Bore Series						
0.3125 in	22 mm	7 mm	608ZZ/7.938PX2/5C	**5U528**	608LLB/7.938PX2/5C	**5U527**
0.5 in	32 mm	10 mm	6201ZZ/12.7C3/L627	**5U532**	6201LLB/12.7C3/L627	**5U531**
0.625 in	1.375 in	0.4375 in	—	—	SC0228LLUC3/L627	**5U491**
0.625 in	35 mm	11 mm	—	—	6202LLB/15.875C3/L627	**5U533**
0.625 in	40 mm	12 mm	6203ZZ/15.875C3/L627	**1L097**	6203LLB/15.875C3/L627	**5U537**
16 mm	35 mm	11 mm	6202ZZ/16C3/L627	**5U536**	6202LLB/16C3/L627	**5U534**

Cartridge Single-Row Radial Ball Bearings

NTN

Identical to NTN Single-Row Radial Ball Bearings above, except wider.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Double Shielded				
35 mm	72 mm	27 mm	63207ZZC3/L627	**4ZXL2**
35 mm	80 mm	34.9 mm	63307ZZC3/L627	**4ZXN9**
40 mm	80 mm	30.2 mm	63208ZZC3/L627	**4ZXL4**
45 mm	85 mm	30.2 mm	63209ZZC3/L627	**4ZXL7**
45 mm	100 mm	39.7 mm	63309ZZC3/L627	**4ZXP4**
50 mm	90 mm	30.2 mm	63210ZZC3/L627	**4ZXL9**
70 mm	125 mm	39.7 mm	63214ZZC3/L627	**4ZXN2**
Double Sealed				
20 mm	52 mm	22.2 mm	63304LLBC3/L627	**4ZXN3**
25 mm	62 mm	25.4 mm	63305LLBC3/L627	**4ZXN4**
30 mm	62 mm	23.8 mm	63206LLBC3/L627	**4ZXK9**
30 mm	72 mm	30.2 mm	63306LLBC3/L627	**4ZXN6**
35 mm	72 mm	27 mm	63207LLBC3/L627	**4ZXL1**
35 mm	80 mm	34.9 mm	63307LLBC3/L627	**4ZXN8**
40 mm	80 mm	30.2 mm	63208LLBC3/L627	**4ZXL3**
40 mm	90 mm	36.5 mm	63308LLBC3/L627	**4ZXP1**
45 mm	85 mm	30.2 mm	63209LLBC3/L627	**4ZXL5**
45 mm	100 mm	39.7 mm	63309LLBC3/L627	**4ZXP3**
50 mm	90 mm	30.2 mm	63210LLBC3/L627	**4ZXL8**
50 mm	110 mm	44.4 mm	63310LLBC3/L627	**4ZXP5**
55 mm	100 mm	33.3 mm	63211LLBC3/L627	**4ZXN1**
60 mm	130 mm	54 mm	63312LLBC3/L627	**4ZXP8**
65 mm	140 mm	58.7 mm	63313LLBC3/L627	**4ZXR1**
Double Contact Sealed				
17 mm	40 mm	17.5 mm	63203LLUC3/L627	**4ZXK8**
25 mm	62 mm	25.4 mm	63305LLUC3/L627	**4ZXN5**
30 mm	72 mm	30.2 mm	63306LLUC3/L627	**4ZXN7**
45 mm	85 mm	30.2 mm	63209LLUC3/L627	**4ZXL6**

Double Shielded

4ZZP5

Banded Ball Thrust Bearings

Support axial forces in a single direction. Grooved race and steel cage.

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
0.5 in	1.219 in	0.563 in	3,850 lb	5,600 lb	7,000 RPM	D1	**4ZZP5**
0.625 in	1.344 in	0.563 in	4,100 lb	6,700 lb	6,000 RPM	D3	**4ZZP6**
0.688 in	1.344 in	0.563 in	4,100 lb	6,700 lb	6,000 RPM	D4	**4ZZP7**
0.75 in	1.469 in	0.563 in	4,250 lb	7,300 lb	5,500 RPM	D5	**4ZZP8**
0.813 in	1.469 in	0.563 in	4,250 lb	7,300 lb	5,500 RPM	D6	**4ZZP9**
0.875 in	1.844 in	0.625 in	6,600 lb	12,200 lb	4,100 RPM	D7	**4ZZR1**
0.938 in	1.844 in	0.625 in	6,600 lb	12,200 lb	4,100 RPM	D8	**4ZZR2**
1 in	1.969 in	0.625 in	6,700 lb	13,100 lb	3,800 RPM	D9	**4ZZR3**
1.063 in	1.969 in	0.625 in	6,700 lb	13,100 lb	3,800 RPM	D10	**4ZZR4**
1.125 in	2.094 in	0.625 in	6,900 lb	14,000 lb	3,600 RPM	D11	**4ZZR5**
1.188 in	2.094 in	0.625 in	6,900 lb	14,000 lb	3,600 RPM	D12	**4ZZR6**
1.25 in	2.344 in	0.625 in	7,200 lb	15,700 lb	3,200 RPM	D13	**4ZZR7**
1.313 in	2.344 in	0.625 in	7,200 lb	15,700 lb	3,200 RPM	D14	**4ZZR8**
1.375 in	2.469 in	0.625 in	7,300 lb	16,600 lb	3,000 RPM	D15	**4ZZR9**
1.5 in	2.594 in	0.625 in	7,700 lb	18,300 lb	2,800 RPM	D17	**4ZZT1**
1.625 in	2.969 in	0.813 in	10,300 lb	25,000 lb	2,400 RPM	D19	**4ZZT3**
1.75 in	3.094 in	0.813 in	10,600 lb	26,500 lb	2,300 RPM	D21	**4ZZT4**
2 in	3.344 in	0.813 in	10,800 lb	29,000 lb	2,100 RPM	D25	**4ZZT5**
2.5 in	3.969 in	0.813 in	11,500 lb	34,000 lb	1,800 RPM	D33	**4ZZT7**
2.563 in	3.969 in	0.813 in	11,500 lb	34,000 lb	1,800 RPM	D34	**4ZZT8**

4XFF9

Drawn Cup Needle Roller Bearings

Provide maximum capacity in minimal radial space. Caged with open ends for through shafts. Mount with press fit in housing.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Inch				
0.187 in	0.344 in	0.375 in	SCE36	**4XFF9**
0.25 in	0.437 in	0.25 in	SCE44	**4XFG1**
	0.437 in	0.313 in	SCE45	**4XFG2**
	0.437 in	0.437 in	SCE47	**4XFG3**
0.313 in	0.5 in	0.563 in	SCE59	**4XFG6**
0.375 in	0.563 in	0.313 in	SCE65	**4XFG7**
	0.563 in	0.5 in	SCE68	**4XFG8**
	0.563 in	0.625 in	SCE610	**4XFG9**
0.437 in	0.625 in	0.5 in	SCE78	**4XFH1**
0.5 in	0.687 in	0.37 in	SCE86	**4XFH4**
	0.687 in	0.5 in	SCE88	**4XFH5**
	0.687 in	0.625 in	SCE810	**4XFH2**
	0.687 in	0.75 in	SCE812	**4XFH3**
0.625 in	0.813 in	0.437 in	SCE107	**4XFH7**
	0.813 in	0.5 in	SCE108	**4XFH8**
	0.813 in	0.625 in	SCE1010	**4XFH9**
0.687 in	0.875 in	0.5 in	SCE118	**4XFJ1**
0.75 in	1 in	0.5 in	SCE128	**4XFJ2**
	1 in	0.625 in	SCE1210	**4XFJ3**
	1 in	0.75 in	SCE1212	**4XFJ4**
0.875 in	1.125 in	0.5 in	SCE148	**4XFJ5**
	1.125 in	0.75 in	SCE1412	**4XFJ6**
1 in	1.25 in	0.5 in	SCE168	**4XFJ7**
	1.25 in	0.75 in	SCE1612	**4XFJ8**
1.125 in	1.375 in	0.75 in	SCE1812	**4XFJ9**
Inch (Cont.)				
1.25 in	1.5 in	0.75 in	SCE2012	**4XFK1**
	1.5 in	1 in	SCE2016	**4XFK2**
1.375 in	1.625 in	0.5 in	SCE228	**4XFK3**
	1.625 in	0.75 in	SCE2212	**4XFK4**
1.5 in	1.875 in	0.75 in	SCE2412	**4XFK6**
1.75 in	2.125 in	1 in	SCE2816	**4XFK7**

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
Metric				
4 mm	8 mm	8 mm	HK0408	**4ZZW1**
5 mm	9 mm	9 mm	HK0509	**4ZZW2**
6 mm	10 mm	9 mm	HK0609	**4ZZW3**
7 mm	11 mm	9 mm	HK0709	**4ZZW4**
8 mm	12 mm	8 mm	HK0808	**4ZZW5**
8 mm	12 mm	10 mm	8665453	**4ZZW6**
9 mm	13 mm	10 mm	HK0910	**4ZZW7**
10 mm	14 mm	10 mm	HK1010	**4ZZW8**
12 mm	18 mm	12 mm	HK1212	**4ZZW9**
14 mm	20 mm	12 mm	HK1412	**4ZZX1**
15 mm	21 mm	12 mm	HK1512	**4ZZX2**
20 mm	26 mm	20 mm	HK2020	**4ZZX3**
25 mm	32 mm	12 mm	HK2512	**4ZZX4**
30 mm	37 mm	12 mm	HK3012	**4ZZX5**
35 mm	42 mm	20 mm	HK3520	**4ZZX6**
40 mm	47 mm	12 mm	HK4012	**4ZZX7**
45 mm	52 mm	20 mm	HK4520	**4ZZX8**
60 mm	68 mm	12 mm	HK6012	**4ZZY2**

4XFL8

4XFP6

Needle Roller Thrust Bearings

Needle Roller and Cage Assemblies—Consist of an axial cage with needle rollers. Support axial loads in 1 direction. Use directly with surrounding hardened faces or separate thrust washers to provide the most compact thrust solution.

Thrust Washers—Use as fatigue liners for soft housing faces. Combine with needle roller and cage assembly to form a complete needle roller thrust bearing.

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
Inch Needle Roller and Cage Assemblies							
0.25 in	0.687 in	0.078 in	1,370 lb	3,000 lb	20,000 RPM	TC411	**4XFL8**
0.375 in	0.812 in	0.078 in	1,620 lb	4,000 lb	16,000 RPM	TC613	**4XFN1**
0.5 in	0.937 in	0.078 in	1,920 lb	5,300 lb	13,000 RPM	TC815	**4XFN2**
0.625 in	1.125 in	0.078 in	2,170 lb	6,600 lb	11,000 RPM	TC1018	**4XFN3**
0.75 in	1.25 in	0.078 in	2,410 lb	8,000 lb	9,500 RPM	TC1220	**4XFN4**
0.875 in	1.437 in	0.078 in	2,900 lb	10,500 lb	8,000 RPM	TC1423	**4XFN5**
1 in	1.562 in	0.078 in	3,150 lb	12,100 lb	7,500 RPM	TC1625	**4XFN6**
1.125 in	1.75 in	0.078 in	3,850 lb	16,300 lb	6,500 RPM	TC1828	**4XFN7**
1.25 in	1.937 in	0.078 in	4,500 lb	20,500 lb	6,000 RPM	TC2031	**4XFN8**
1.375 in	2.062 in	0.078 in	4,600 lb	21,600 lb	5,500 RPM	TC2233	**4XFN9**
1.5 in	2.187 in	0.078 in	4,850 lb	23,700 lb	5,000 RPM	TC2435	**4XFP1**
1.75 in	2.5 in	0.078 in	5,600 lb	30,000 lb	4,400 RPM	TC2840	**4XFP2**
2 in	2.75 in	0.078 in	5,800 lb	32,500 lb	4,000 RPM	TC3244	**4XFP3**
2.5 in	3.25 in	0.078 in	6,200 lb	37,500 lb	3,300 RPM	TC4052	**4XFP5**

Inside Dia.	Outside Dia.	1⁄32 in WIDTH Mfr. Model	1⁄32 in WIDTH Item No.	1⁄16 in WIDTH Mfr. Model	1⁄16 in WIDTH Item No.	3⁄32 in WIDTH Mfr. Model	3⁄32 in WIDTH Item No.	1⁄8 in WIDTH Mfr. Model	1⁄8 in WIDTH Item No.
Inch Thrust Washers									
0.25 in	0.688 in	TWA411	**4XFP6**	—	—	TWC411	**4XFU4**	—	—
0.313 in	0.75 in	TWA512	**4XFP7**	—	—	—	—	—	—
0.375 in	0.813 in	TWA613	**4XFP8**	TWB613	**4XFT4**	—	—	—	—
0.5 in	0.938 in	TWA815	**4XFP9**	TWB815	**4XFT5**	TWC815	**4XFU5**	—	—
0.625 in	1.125 in	TWA1018	**4XFR1**	TWB1018	**4XFT6**	TWC1018	**4XFU6**	—	—
0.75 in	1.25 in	TWA1220	**4XFR2**	TWB1220	**4XFT7**	TWC1220	**4XFU7**	TWD1220	**4XFV3**
0.875 in	1.438 in	TWA1423	**4XFR3**	—	—	TWC1423	**4XFU8**	TWD1423	**4XFV4**
1.0 in	1.563 in	TWA1625	**4XFR4**	TWB1625	**4XFT8**	TWC1625	**4XFU9**	TWD1625	**4XFV5**
1.125 in	1.75 in	TWA1828	**4XFR5**	TWB1828	**4XFT9**	TWC1828	**4XFV1**	TWD1828	**4XFV6**
1.25 in	1.938 in	TWA2031	**4XFR6**	TWB2031	**4XFU1**	—	—	8666030	**4XFV7**
1.375 in	2.063 in	TWA2233	**4XFR7**	—	—	TWC2233	**4XFV2**	—	—
1.5 in	2.188 in	TWA2435	**4XFR8**	TWB2435	**4XFU2**	—	—	TWD2435	**4XFV8**
1.75 in	2.5 in	TWA2840	**4XFR9**	TWB2840	**4XFU3**	—	—	TWD2840	**4XFV9**
2.0 in	2.75 in	TWA3244	**4XFT1**	—	—	—	—	—	—
2.25 in	3.0 in	TWA3648	**4XFT2**	—	—	—	—	—	—
2.5 in	3.25 in	TWA4052	**4XFT3**	—	—	—	—	—	—

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
Metric Needle Roller and Cage Assemblies							
8 mm	21 mm	2 mm	7,800 N	19,400 N	18,000 RPM	AXK0821-TV	**4ZZN3**
10 mm	24 mm	2 mm	9,200 N	25,500 N	17,000 RPM	AXK1024	**4ZZN4**
12 mm	26 mm	2 mm	9,900 N	29,000 N	15,000 RPM	AXK1226	**4ZZN5**
15 mm	28 mm	2 mm	11,300 N	36,000 N	13,000 RPM	AXK1528	**4ZZN6**
17 mm	30 mm	2 mm	11,900 N	39,500 N	12,000 RPM	AXK1730	**4ZZN7**
20 mm	35 mm	2 mm	13,100 N	46,500 N	10,000 RPM	AXK2035	**4ZZN8**
25 mm	42 mm	2 mm	14,700 N	58,000 N	8,500 RPM	AXK2542	**4ZZN9**
30 mm	47 mm	2 mm	16,300 N	70,000 N	7,500 RPM	AXK3047	**4ZZP1**
35 mm	52 mm	2 mm	17,800 N	81,000 N	6,500 RPM	AXK3552	**4ZZP2**
40 mm	60 mm	3 mm	28,000 N	114,000 N	6,000 RPM	8665484	**4ZZP3**
45 mm	65 mm	3 mm	30,000 N	128,000 N	5,000 RPM	AXK4565	**4ZZP4**

Inside Dia.	Outside Dia.	Mfr. Model	Item No.
Metric Thrust Washers, 1mm Wide			
8 mm	21 mm	AS0821	**4ZZL1**
10 mm	24 mm	AS1024	**4ZZL2**
12 mm	26 mm	AS1226	**4ZZL3**
15 mm	28 mm	AS1528	**4ZZL4**
17 mm	30 mm	AS1730	**4ZZL5**
20 mm	35 mm	AS2035	**4ZZL6**
25 mm	42 mm	AS2542	**4ZZL7**
30 mm	47 mm	AS3047	**4ZZL8**
35 mm	52 mm	AS3552	**4ZZL9**
40 mm	60 mm	AS4060	**4ZZN1**
45 mm	65 mm	AS4565	**4ZZN2**

INA

Spherical Plain Bearings

4ZZT9

ELGES double-sealed, spherical plain bearings support high radial loads with shocks that would damage rolling element bearings. Transmit motion and loads, but allow pivoting to prevent stress on adjacent structure. Suitable for supporting hydraulic cylinder connections to structures that can warp or twist. Maintenance type has lubrication holes and grooves on inner and outer components allowing grease to be pumped through the shaft or housing.

			MAINTENANCE TYPE				MAINTENANCE-FREE TYPE			
Bore (mm)	Outside Dia. (mm)	Width (mm)	Dynamic Load Cap. (N)	Static Load Cap. (N)	Mfr. Model	Item No.	Dynamic Load Cap. (N)	Static Load Cap. (N)	Mfr. Model	Item No.
17	30 mm	14 mm	21,200 N	106,000 N	GE17-DO-2RS	**4ZZT9**	48,700 N	81,200 N	GE17-UK-2RS	**4ZZU1**
20	35 mm	16 mm	30,000 N	146,000 N	GE20-DO-2RS	**4ZZU2**	67,500 N	112,000 N	GE20-UK-2RS	**4ZZU3**
25	42 mm	20 mm	48,000 N	240,000 N	GE25-DO-2RS	**4ZZU4**	127,000 N	212,000 N	GE25-UK-2RS	**4ZZU5**
30	47 mm	22 mm	62,000 N	310,000 N	GE30-DO-2RS	**4ZZU6**	165,000 N	275,000 N	GE30-UK-2RS	**4ZZU7**
35	55 mm	25 mm	—	—	—	**—**	210,000 N	350,000 N	GE35-UK-2RS	**4ZZU9**
40	62 mm	28 mm	100,000 N	500,000 N	GE40-DO-2RS	**4ZZV1**	277,000 N	462,000 N	GE40-UK-2RS	**4ZZV2**
45	68 mm	32 mm	—	—	—	**—**	360,000 N	600,000 N	GE45-UK-2RS	**4ZZV3**
50	75 mm	35 mm	156,000 N	780,000 N	GE50-DO-2RS	**4ZZV4**	442,000 N	737,000 N	GE50-UK-2RS	**4ZZV5**
60	90 mm	44 mm	245,000 N	1,220,000 N	GE60-DO-2RS	**4ZZV6**	690,000 N	1,150,000 N	GE60-UK-2RS	**4ZZV7**
70	105 mm	49 mm	315,000 N	1,560,000 N	GE70-DO-2RS	**4ZZV8**	885,000 N	1,475,000 N	GE70-UK-2RS	**4ZZV9**

Dayton

Steel Reducer Bushings

6L100

- Pkg. qty. 3

Instantly adapt larger bores of various tools (pulleys, gears, sprockets) to smaller dia. shafts. Galvanized steel. 3⁄16" open slot for keyway and setscrew.

Inside Dia.	Outside Dia.	L	Item No.
¼ in	5⁄16 in	1 in	**6L100**
	⅜ in	1 1⁄16 in	**6L101**
5⁄16 in	⅜ in	1 1⁄16 in	**6L102**
⅜ in	7⁄16 in	1 1⁄16 in	**6L103**
	½ in	1 in	**4X664**
½ in	⅝ in	1 ¼ in	**2X773**
⅝ in	¾ in	1 ¼ in	**2X774**
¾ in	1 in	1 ¼ in	**2X775**
⅞ in	1 in	1 5⁄16 in	**2X653**

Dayton

UHMW-PE Sleeve Bearings

3ZN23

- Max. PV: 3000
- Temp. range: -60° to 180°F

UHMW-PE (ultra-high molecular weight polyethylene) provides excellent durability and low friction. Self-lubricating bearings. Great for applications involving slow rotational or linear motion. White color. USDA/FDA approved.

Inside Dia.	Outside Dia.	L	Item No.
¼ in	⅜ in	½ in	**3ZN23**
⅜ in	½ in	½ in	**3ZN24**
½ in	⅝ in	1 in	**3ZN20**
	¾ in	1 in	**3ZN21**
⅝ in	¾ in	¾ in	**3ZN22**
¾ in	1 in	1 in	**3ZN18**
1 in	1 ¼ in	1 in	**3ZN19**

1X868

1X968

Dayton

Bronze Sleeve Bearings/Bushings

- Maximum PV: 50,000.
- Temperature range: -5° to 220°F.

Oil-impregnated and self-lubricating bearings are high-quality sintered bronze alloy.

Inside Dia.	Outside Dia.	L	Item No.
¼ in	5⁄16 in	¾ in	**2X355**
¼ in	⅜ in	½ in	**3ZM99**
¼ in	⅜ in	1 in	**2X380**
⅜ in	½ in	½ in	**3ZN01**
⅜ in	½ in	1 in	**1X871**
½ in	⅝ in	⅝ in	**3ZN02**
½ in	⅝ in	1 ⅛ in	**1X868**
½ in	11⁄16 in	1 ⅛ in	**1X866**
½ in	¾ in	1 ⅛ in	**1X870**
⅝ in	¾ in	1 in	**1X867**
⅝ in	¾ in	1 ⅛ in	**1X869**
¾ in	1 in	1 ⅞ in	**1X872**
56-Pc. Bronze Sleeve Bearing Kit			**1X968**

Kit No. 1X968 Contains:

Qty.	Inside Dia.	Outside Dia.	L
10	¼"	5⁄16"	¾"
5	¼"	⅜"	1"
5	⅜"	½"	1"
12	½"	⅝"	1⅛"
5	½"	11⁄16"	1⅛"
5	½"	¾"	1⅛"
5	⅝"	¾"	1"
5	⅝"	¾"	1⅛"
4	¾"	1"	1⅞"

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Bearing Tool Set 1X351

Portable Arbor Press 3ZM98

Dayton

Bushing Driver Set 4X083

Flanged

Bronze Sleeve Bearings/Bushings

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SAE 841: Oil-Impregnated—Sintered bronze bearings conform to ASTM chemical and physical properties. Vacuum-impregnated with SAE 30 oil that provides lubricant which is metered from the bearing to the shaft during rotation.

- Max. PV: 50,000
- Temp. range: 10° to 220°F

SAE 660: Cast-Bronze—Machined from continuous-cast C93200 bronze. Provide a uniform bronze structure throughout the bearing, free from porosity and hard particle inclusions.

- Max. PV: 75,000
- Temp. range: -40° to 500°F

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 841					
3/16 in	5/16 in	1/4 in	EP030504	3	**12R701**
3/16 in	5/16 in	3/8 in	EP030506	3	**12R702**
3/16 in	5/16 in	1/2 in	EP030508	3	**12R703**
1/4 in	5/16 in	1/4 in	EP040504	3	**12R704**
1/4 in	3/8 in	1/4 in	EP040604	3	**12R705**
1/4 in	3/8 in	3/8 in	EP040606	3	**12R706**
1/4 in	3/8 in	1/2 in	EP040608	3	**12R707**
1/4 in	3/8 in	5/8 in	EP040610	3	**12R708**
1/4 in	3/8 in	3/4 in	EP040612	3	**12R709**
1/4 in	1/2 in	1/2 in	EP040808	3	**12R710**
1/4 in	1/2 in	3/4 in	EP040812	3	**12R711**
1/4 in	1/2 in	1 in	EP040816	3	**12R712**
5/16 in	7/16 in	3/8 in	EP050706	3	**12R713**
5/16 in	7/16 in	1/2 in	EP050708	3	**12R714**
5/16 in	7/16 in	5/8 in	EP050710	3	**12R715**
5/16 in	7/16 in	3/4 in	EP050712	3	**12R716**
5/16 in	7/16 in	1 in	EP050716	3	**12R717**
5/16 in	1/2 in	3/8 in	EP050806	3	**12R718**
5/16 in	1/2 in	1/2 in	EP050808	3	**12R719**
5/16 in	1/2 in	3/4 in	EP050812	3	**12R720**
5/16 in	1/2 in	1 in	EP050816	3	**12R721**
5/16 in	1/2 in	1 1/4 in	EP050820	3	**12R722**
3/8 in	1/2 in	1/4 in	EP060804	3	**12R723**
3/8 in	1/2 in	3/8 in	EP060806	3	**12R724**
3/8 in	1/2 in	1/2 in	EP060808	3	**12R725**
3/8 in	1/2 in	5/8 in	EP060810	3	**12R726**
3/8 in	1/2 in	3/4 in	EP060812	3	**12R727**
3/8 in	1/2 in	1 in	EP060816	3	**12R728**
3/8 in	5/8 in	1/2 in	EP061008	3	**12R729**
3/8 in	5/8 in	5/8 in	EP061010	3	**12R730**
3/8 in	5/8 in	3/4 in	EP061012	3	**12R731**
3/8 in	5/8 in	1 in	EP061016	3	**12R732**
1/2 in	5/8 in	3/8 in	EP081006	3	**12R733**
1/2 in	5/8 in	1/2 in	EP081008	3	**12R734**
1/2 in	5/8 in	5/8 in	EP081010	3	**12R735**
1/2 in	5/8 in	3/4 in	EP081012	3	**12R736**
1/2 in	5/8 in	1 in	EP081016	3	**12R737**
1/2 in	5/8 in	1 1/4 in	EP081020	3	**12R738**
1/2 in	3/4 in	1/2 in	EP081208	3	**12R739**
1/2 in	3/4 in	5/8 in	EP081210	3	**12R740**
1/2 in	3/4 in	3/4 in	EP081212	3	**12R741**
1/2 in	3/4 in	1 in	EP081216	3	**12R742**
9/16 in	11/16 in	3/4 in	EP091112	3	**12R743**
5/8 in	3/4 in	1/2 in	EP101208	3	**12R744**
5/8 in	3/4 in	5/8 in	EP101210	3	**12R745**
5/8 in	3/4 in	3/4 in	EP101212	3	**12R746**
5/8 in	3/4 in	1 in	EP101216	3	**12R747**
5/8 in	3/4 in	1 1/2 in	EP101224	3	**12R748**
5/8 in	7/8 in	1/2 in	EP101408	3	**12R749**
5/8 in	7/8 in	5/8 in	EP101410	3	**12R750**
5/8 in	7/8 in	3/4 in	EP101412	3	**12R751**
5/8 in	7/8 in	1 in	EP101416	3	**12R752**
5/8 in	7/8 in	1 1/4 in	EP101420	3	**12R753**
3/4 in	7/8 in	1/2 in	EP121408	3	**12R754**
3/4 in	7/8 in	3/4 in	EP121412	3	**12R755**
3/4 in	15/16 in	3/4 in	EP121512	3	**12R756**
3/4 in	1 in	1/2 in	EP121608	3	**12R757**
3/4 in	1 in	5/8 in	EP121610	3	**12R758**
3/4 in	1 in	3/4 in	EP121612	3	**12R759**
3/4 in	1 in	1 in	EP121616	3	**12R760**
3/4 in	1 in	1 1/4 in	EP121620	3	**12R761**
3/4 in	1 in	1 1/2 in	EP121624	3	**12R762**
7/8 in	1 1/8 in	3/4 in	EP141812	3	**12R763**
7/8 in	1 1/8 in	1 in	EP141816	3	**12R764**
1 in	1 1/8 in	1 in	EP161816	3	**12R765**
1 in	1 1/4 in	1/2 in	EP162008	3	**12R766**
1 in	1 1/4 in	3/4 in	EP162012	3	**12R767**
1 in	1 1/4 in	1 in	EP162016	3	**12R768**
1 in	1 1/4 in	1 1/4 in	EP162020	3	**12R769**
1 in	1 1/4 in	1 1/2 in	EP162024	3	**12R770**
1 1/4 in	1 1/2 in	1 in	EP202416	1	**12R771**
1 1/4 in	1 1/2 in	1 1/4 in	EP202420	1	**12R772**
1 1/2 in	1 3/4 in	1 1/2 in	EP242824	1	**12R773**

Inside Dia.	Outside Dia.	L	Flange Dia.	Flange Thickness	Mfr. Model	Pkg. Qty.	Item No.
SAE 841 Flanged							
3/16 in	5/16 in	1/4 in	7/16 in	1/16 in	EF030504	3	**12R645**
3/16 in	5/16 in	3/8 in	7/16 in	1/16 in	EF030506	3	**12R646**
3/16 in	5/16 in	1/2 in	7/16 in	1/16 in	EF030508	3	**12R647**
1/4 in	3/8 in	1/4 in	1/2 in	1/16 in	EF040604	3	**12R648**
1/4 in	3/8 in	3/8 in	1/2 in	1/16 in	EF040606	3	**12R649**
1/4 in	3/8 in	1/2 in	1/2 in	1/16 in	EF040608	3	**12R650**
1/4 in	3/8 in	5/8 in	1/2 in	1/16 in	EF040610	3	**12R651**
1/4 in	3/8 in	3/4 in	1/2 in	1/16 in	EF040612	3	**12R652**
5/16 in	7/16 in	3/8 in	9/16 in	1/16 in	EF050706	3	**12R653**
5/16 in	7/16 in	1/2 in	9/16 in	1/16 in	EF050708	3	**12R654**
5/16 in	7/16 in	3/4 in	9/16 in	1/16 in	EF050712	3	**12R655**
5/16 in	1/2 in	3/8 in	11/16 in	1/16 in	EF050806	3	**12R656**
3/8 in	1/2 in	1/4 in	11/16 in	1/16 in	EF060804	3	**12R657**
3/8 in	1/2 in	3/8 in	11/16 in	1/16 in	EF060806	3	**12R658**
3/8 in	1/2 in	1/2 in	11/16 in	1/16 in	EF060808	3	**12R659**
3/8 in	1/2 in	3/4 in	11/16 in	1/16 in	EF060812	3	**12R660**
3/8 in	1/2 in	1 in	11/16 in	1/16 in	EF060816	3	**12R661**
3/8 in	5/8 in	1/2 in	7/8 in	1/16 in	EF061008	3	**12R662**
3/8 in	5/8 in	3/4 in	7/8 in	1/16 in	EF061012	3	**12R663**
3/8 in	5/8 in	1 in	7/8 in	1/16 in	EF061016	3	**12R664**
1/2 in	5/8 in	3/8 in	7/8 in	1/8 in	EF081006	3	**12R665**
1/2 in	5/8 in	1/2 in	7/8 in	1/8 in	EF081008	3	**12R666**
1/2 in	5/8 in	5/8 in	7/8 in	1/8 in	EF081010	3	**12R667**
1/2 in	5/8 in	3/4 in	7/8 in	1/8 in	EF081012	3	**12R668**
1/2 in	5/8 in	1 in	7/8 in	1/8 in	EF081016	3	**12R669**
1/2 in	5/8 in	1 1/4 in	7/8 in	1/8 in	EF081020	3	**12R670**
1/2 in	3/4 in	1/2 in	1 in	1/8 in	EF081208	3	**12R671**
1/2 in	3/4 in	5/8 in	1 in	1/8 in	EF081210	3	**12R672**
1/2 in	3/4 in	3/4 in	1 in	1/8 in	EF081212	3	**12R673**
1/2 in	3/4 in	1 in	1 in	1/8 in	EF081216	3	**12R674**
5/8 in	3/4 in	5/8 in	1 in	1/8 in	EF101210	3	**12R675**
5/8 in	3/4 in	3/4 in	1 in	1/8 in	EF101212	3	**12R676**
5/8 in	3/4 in	1 in	1 in	1/8 in	EF101216	3	**12R677**
5/8 in	7/8 in	1/2 in	1 1/8 in	1/8 in	EF101408	3	**12R678**
5/8 in	7/8 in	5/8 in	1 1/8 in	1/8 in	EF101410	3	**12R679**
5/8 in	7/8 in	3/4 in	1 1/8 in	1/8 in	EF101412	3	**12R680**
5/8 in	7/8 in	1 in	1 1/8 in	1/8 in	EF101416	3	**12R681**
5/8 in	7/8 in	1 1/4 in	1 1/8 in	1/8 in	EF101420	3	**12R682**
3/4 in	7/8 in	1/2 in	1 1/8 in	1/8 in	EF121408	3	**12R683**
3/4 in	7/8 in	3/4 in	1 1/8 in	1/8 in	EF121412	3	**12R684**
3/4 in	15/16 in	3/4 in	1 1/4 in	1/8 in	EF121512	3	**12R685**
3/4 in	1 in	5/8 in	1 1/4 in	3/16 in	EF121610	3	**12R686**
3/4 in	1 in	3/4 in	1 1/4 in	3/16 in	EF121612	3	**12R687**
3/4 in	1 in	1 in	1 1/4 in	3/16 in	EF121616	3	**12R688**
3/4 in	1 in	1 1/4 in	1 1/4 in	3/16 in	EF121620	3	**12R689**
3/4 in	1 in	1 1/2 in	1 1/4 in	3/16 in	EF121624	3	**12R690**
7/8 in	1 1/8 in	3/4 in	1 1/2 in	1/8 in	EF141812	3	**12R691**
7/8 in	1 1/8 in	1 in	1 1/2 in	1/8 in	EF141816	3	**12R692**
1 in	1 1/4 in	3/4 in	1 1/2 in	1/8 in	EF162012	3	**12R693**
1 in	1 1/4 in	1 in	1 1/2 in	1/8 in	EF162016	3	**12R694**
1 in	1 1/4 in	1 1/4 in	1 1/2 in	1/8 in	EF162020	3	**12R695**
1 in	1 1/4 in	1 1/2 in	1 1/2 in	1/8 in	EF162024	3	**12R696**
1 1/4 in	1 1/2 in	1 in	1 3/4 in	3/16 in	EF202416	1	**12R697**
1 1/4 in	1 1/2 in	1 1/4 in	1 3/4 in	3/16 in	EF202420	1	**12R698**
1 1/2 in	1 3/4 in	1 1/2 in	2 in	3/16 in	EF242824	1	**12R699**

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660					
3/16 in	5/16 in	1 in	CB030508	3	**13T437**
1/4 in	3/8 in	1 in	CB040608	3	**13T442**
1/4 in	3/8 in	1 1/4 in	CB040610	3	**13T443**
5/16 in	7/16 in	1/2 in	CB050704	3	**13T448**
5/16 in	7/16 in	3/4 in	CB050706	3	**13T449**
5/16 in	7/16 in	1 1/4 in	CB050710	3	**13T451**
5/16 in	1/2 in	3/4 in	CB050806	3	**13T452**
5/16 in	1/2 in	1 in	CB050808	3	**13T453**
3/8 in	1/2 in	1/2 in	CB060804	3	**13T456**
3/8 in	1/2 in	3/4 in	CB060806	3	**13T457**
3/8 in	1/2 in	1 in	CB060808	3	**13T458**
3/8 in	1/2 in	1 1/4 in	CB060810	3	**13T459**
3/8 in	1/2 in	1 1/2 in	CB060812	3	**13T460**
3/8 in	9/16 in	3/4 in	CB060906	3	**13T461**
3/8 in	9/16 in	1 1/4 in	CB060910	3	**13T463**
3/8 in	5/8 in	3/4 in	CB061006	3	**13T464**
3/8 in	5/8 in	1 in	CB061008	3	**13T465**
3/8 in	5/8 in	1 1/2 in	CB061012	3	**13T467**
7/16 in	9/16 in	1 in	CB070908	3	**13T468**
7/16 in	5/8 in	1 1/2 in	CB071012	3	**13T475**
7/16 in	5/8 in	2 in	CB071016	3	**13T476**
7/16 in	3/4 in	1 1/4 in	CB071210	3	**13T479**
1/2 in	5/8 in	5/8 in	CB081005	3	**13T482**
1/2 in	5/8 in	3/4 in	CB081006	3	**13T483**
1/2 in	5/8 in	1 in	CB081008	3	**13T485**
1/2 in	5/8 in	1 1/4 in	CB081010	3	**13T486**
1/2 in	5/8 in	1 3/8 in	CB081011	3	**13T487**
1/2 in	5/8 in	1 1/2 in	CB081012	3	**13T488**
1/2 in	5/8 in	1 3/4 in	CB081014	3	**13T489**
1/2 in	5/8 in	2 in	CB081016	3	**13T490**
1/2 in	5/8 in	2 1/4 in	CB081018	3	**13T491**
1/2 in	11/16 in	3/4 in	CB081106	3	**13T492**
1/2 in	11/16 in	2 in	CB081116	3	**13T497**
1/2 in	11/16 in	2 1/2 in	CB081120	3	**13T499**
1/2 in	3/4 in	3/4 in	CB081206	3	**13T501**
1/2 in	3/4 in	1 in	CB081208	3	**13T502**
1/2 in	3/4 in	1 1/4 in	CB081210	3	**13T503**
1/2 in	3/4 in	1 1/2 in	CB081212	3	**13T504**
1/2 in	3/4 in	1 3/4 in	CB081214	3	**13T505**
1/2 in	3/4 in	2 in	CB081216	3	**13T506**
1/2 in	3/4 in	2 1/2 in	CB081220	3	**13T508**
1/2 in	3/4 in	2 3/4 in	CB081222	3	**13T509**
1/2 in	13/16 in	1 in	CB081308	3	**13T510**
1/2 in	13/16 in	1 1/2 in	CB081312	3	**13T511**
1/2 in	7/8 in	1 in	CB081408	3	**13T513**
1/2 in	7/8 in	2 in	CB081416	3	**13T517**
1/2 in	1 in	1 in	CB081608	3	**13T518**
1/2 in	1 in	1 1/2 in	CB081612	3	**13T519**
9/16 in	11/16 in	1 1/2 in	CB091112	3	**13T524**

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660 (Cont.)					
9/16 in	11/16 in	1 3/4 in	CB091114	3	**13T525**
9/16 in	3/4 in	1 3/4 in	CB091214	3	**13T532**
5/8 in	3/4 in	1/2 in	CB101204	3	**13T545**
5/8 in	3/4 in	1 in	CB101208	3	**13T547**
5/8 in	3/4 in	1 1/4 in	CB101210	3	**13T549**
5/8 in	3/4 in	1 1/2 in	CB101212	3	**13T550**
5/8 in	3/4 in	1 3/4 in	CB101214	3	**13T551**
5/8 in	3/4 in	2 in	CB101216	3	**13T552**
5/8 in	3/4 in	2 1/2 in	CB101220	3	**13T554**
5/8 in	3/4 in	3 in	CB101224	3	**13T555**
5/8 in	13/16 in	1 in	CB101308	3	**13T556**
5/8 in	13/16 in	1 1/4 in	CB101310	3	**13T557**
5/8 in	7/8 in	1 in	CB101408	3	**13T565**
5/8 in	7/8 in	2 in	CB101416	3	**13T570**
5/8 in	7/8 in	2 1/2 in	CB101420	3	**13T572**
5/8 in	7/8 in	3 in	CB101424	3	**13T573**
5/8 in	15/16 in	1 in	CB101508	3	**13T574**
5/8 in	1 in	1 in	CB101608	3	**13T578**
5/8 in	1 in	1 1/2 in	CB101612	3	**13T579**
5/8 in	1 1/8 in	1 1/2 in	CB101812	3	**13T584**
5/8 in	1 1/8 in	2 1/4 in	CB101818	3	**13T586**
11/16 in	1 in	1 1/4 in	CB111610	3	**13T607**
3/4 in	7/8 in	1 in	CB121408	3	**13T611**
3/4 in	7/8 in	1 1/4 in	CB121410	3	**13T612**
3/4 in	7/8 in	1 1/2 in	CB121412	3	**13T613**
3/4 in	7/8 in	2 in	CB121416	3	**13T615**
3/4 in	15/16 in	1 in	CB121508	3	**13T618**
3/4 in	15/16 in	2 in	CB121516	3	**13T623**
3/4 in	1 in	3/4 in	CB121606	3	**13T629**
3/4 in	1 in	7/8 in	CB121607	3	**13T630**
3/4 in	1 in	1 in	CB121608	3	**13T631**
3/4 in	1 in	1 1/8 in	CB121609	3	**13T632**
3/4 in	1 in	1 1/4 in	CB121610	3	**13T633**
3/4 in	1 in	1 1/2 in	CB121612	3	**13T635**
3/4 in	1 in	1 3/4 in	CB121614	3	**13T636**
3/4 in	1 in	2 in	CB121616	3	**13T638**
3/4 in	1 in	2 1/2 in	CB121620	3	**13T641**
3/4 in	1 in	3 in	CB121624	3	**13T643**
3/4 in	1 1/16 in	1 in	CB121708	3	**13T645**
3/4 in	1 1/8 in	1 in	CB121808	3	**13T651**
3/4 in	1 1/8 in	1 1/2 in	CB121812	3	**13T652**
3/4 in	1 1/8 in	2 in	CB121816	3	**13T653**
3/4 in	1 1/4 in	1 3/4 in	CB122014	3	**13T659**
7/8 in	1 in	1 in	CB141608	3	**13T680**
7/8 in	1 in	1 1/4 in	CB141610	3	**13T681**
7/8 in	1 in	1 1/2 in	CB141612	3	**13T683**
7/8 in	1 in	1 5/8 in	CB141613	3	**13T684**
7/8 in	1 in	2 in	CB141616	3	**13T685**
7/8 in	1 1/16 in	2 in	CB141716	3	**13T690**
7/8 in	1 1/8 in	1 in	CB141808	3	**13T695**
7/8 in	1 1/8 in	1 1/4 in	CB141810	3	**13T696**
7/8 in	1 1/8 in	2 in	CB141816	3	**13T701**
7/8 in	1 1/4 in	1 1/2 in	CB142012	3	**13T713**
7/8 in	1 1/4 in	2 1/2 in	CB142020	3	**13T717**
7/8 in	1 3/8 in	1 1/2 in	CB142212	3	**13T721**
1 in	1 1/8 in	1 in	CB161808	3	**13T742**
1 in	1 1/8 in	1 3/8 in	CB161811	3	**13T743**
1 in	1 1/8 in	1 1/2 in	CB161812	3	**13T744**
1 in	1 1/8 in	1 3/4 in	CB161814	3	**13T745**
1 in	1 1/8 in	2 in	CB161816	3	**13T746**
1 in	1 1/8 in	2 1/2 in	CB161820	3	**13T747**
1 in	1 3/16 in	7/8 in	CB161907	3	**13T748**
1 in	1 3/16 in	1 in	CB161908	3	**13T749**
1 in	1 3/16 in	1 1/2 in	CB161912	3	**13T751**
1 in	1 1/4 in	1 in	CB162008	3	**13T756**
1 in	1 1/4 in	1 1/2 in	CB162012	3	**13T760**
1 in	1 1/4 in	1 3/4 in	CB162014	3	**13T762**
1 in	1 1/4 in	2 in	CB162016	3	**13T764**
1 in	1 1/4 in	2 1/4 in	CB162018	3	**13T765**
1 in	1 1/4 in	2 1/2 in	CB162020	3	**13T766**
1 in	1 1/4 in	3 in	CB162024	3	**13T768**
1 in	1 1/4 in	3 1/2 in	CB162028	3	**13T769**
1 in	1 1/4 in	4 in	CB162032	3	**13T771**
1 in	1 1/4 in	4 1/2 in	CB162036	3	**13T772**
1 in	1 5/16 in	1 1/2 in	CB162112	3	**13T773**
1 in	1 5/16 in	2 in	CB162116	3	**13T774**
1 in	1 3/8 in	1 in	CB162208	3	**13T780**
1 in	1 3/8 in	1 1/4 in	CB162210	3	**13T781**
1 in	1 3/8 in	2 in	CB162216	3	**13T784**
1 in	1 3/8 in	3 in	CB162224	3	**13T787**
1 in	1 1/2 in	1 1/2 in	CB162412	3	**13T792**
1 in	1 1/2 in	2 in	CB162416	3	**13T794**
1 in	1 1/2 in	2 1/2 in	CB162420	3	**13T795**
1 in	1 1/2 in	3 in	CB162424	3	**13T796**
1 in	2 in	3 in	CB163224	3	**13T804**
1 1/16 in	1 3/8 in	2 in	CB172216	1	**13T812**
1 1/8 in	1 1/4 in	1 1/2 in	CB182012	1	**13T817**
1 1/8 in	1 1/4 in	1 3/4 in	CB182014	1	**13T818**
1 1/8 in	1 1/4 in	2 in	CB182016	1	**13T819**
1 1/8 in	1 5/16 in	2 1/2 in	CB182120	1	**13T821**
1 1/8 in	1 3/8 in	1 in	CB182208	1	**13T822**
1 1/8 in	1 3/8 in	1 1/4 in	CB182210	1	**13T823**
1 1/8 in	1 3/8 in	1 1/2 in	CB182212	1	**13T824**
1 1/8 in	1 3/8 in	2 in	CB182216	1	**13T826**
1 1/8 in	1 3/8 in	2 1/2 in	CB182220	1	**13T828**
1 1/8 in	1 7/16 in	1 1/2 in	CB182312	1	**13T833**
1 1/8 in	1 1/2 in	1 1/2 in	CB182412	1	**13T837**
1 1/8 in	1 1/2 in	2 in	CB182416	1	**13T838**
1 1/8 in	1 1/2 in	3 in	CB182424	1	**13T840**
1 1/8 in	1 1/2 in	4 in	CB182432	1	**13T842**
1 1/8 in	1 5/8 in	1 3/4 in	CB182614	1	**13T843**
1 1/8 in	1 5/8 in	2 in	CB182616	1	**13T844**
1 3/16 in	1 3/8 in	1 3/4 in	CB192214	1	**13T853**
1 3/16 in	1 3/8 in	2 in	CB192216	1	**13T854**
1 3/16 in	1 3/8 in	2 1/2 in	CB192220	1	**13T855**

CONTINUED

CONTINUED

Bronze Sleeve Bearings/Bushings

Inside Dia.	Outside Dia.	L	Mfr. Model	Pkg. Qty.	Item No.
SAE 660 (Cont.)					
1 3⁄16 in	1 7⁄16 in	1 ¼ in	CB192310	1	**13T856**
1 3⁄16 in	1 7⁄16 in	3 in	CB192324	1	**13T860**
1 3⁄16 in	1 11⁄16 in	2 in	CB192716	1	**13T872**
1 ¼ in	1 7⁄16 in	2 in	CB202316	1	**13T876**
1 ¼ in	1 7⁄16 in	3 in	CB202324	1	**13T878**
1 ¼ in	1 ½ in	1 in	CB202408	1	**13T879**
1 ¼ in	1 ½ in	1 ⅛ in	CB202409	1	**13T880**
1 ¼ in	1 ½ in	1 ¼ in	CB202410	1	**13T881**
1 ¼ in	1 ½ in	1 ⅜ in	CB202411	1	**13T882**
1 ¼ in	1 ½ in	1 ½ in	CB202412	1	**13T883**
1 ¼ in	1 ½ in	1 ¾ in	CB202414	1	**13T885**
1 ¼ in	1 ½ in	2 in	CB202416	1	**13T886**
1 ¼ in	1 ½ in	2 ¾ in	CB202422	1	**13T889**
1 ¼ in	1 ½ in	3 in	CB202424	1	**13T890**
1 ¼ in	1 ½ in	4 ½ in	CB202436	1	**13T895**
1 ¼ in	1 ½ in	5 in	CB202440	1	**13T896**
1 ¼ in	1 9⁄16 in	2 in	CB202516	1	**13T898**
1 ¼ in	1 ⅝ in	1 ¾ in	CB202614	1	**13T904**
1 ¼ in	1 ⅝ in	2 in	CB202616	1	**13T905**
1 ¼ in	1 ⅝ in	2 ½ in	CB202620	1	**13T906**
1 ¼ in	1 ⅝ in	3 ½ in	CB202628	1	**13T909**
1 ¼ in	1 ¾ in	1 ¼ in	CB202810	1	**13T917**
1 ¼ in	1 ¾ in	1 ¾ in	CB202814	1	**13T918**
1 ¼ in	1 ¾ in	3 in	CB202824	1	**13T923**
1 5⁄16 in	1 ½ in	1 ¾ in	CB212414	1	**13T935**
1 ⅜ in	1 ½ in	1 ¾ in	CB222414	1	**13T952**
1 ⅜ in	1 ½ in	2 ½ in	CB222420	1	**13T954**
1 ⅜ in	1 ⅝ in	1 ¼ in	CB222610	1	**13T955**
1 ⅜ in	1 ⅝ in	1 ½ in	CB222612	1	**13T956**
1 ⅜ in	1 ⅝ in	2 in	CB222616	1	**13T957**
1 ⅜ in	1 ⅝ in	3 in	CB222624	1	**13T958**
1 ⅜ in	1 ¾ in	2 in	CB222816	1	**13T964**
1 ⅜ in	1 ¾ in	3 in	CB222824	1	**13T967**
1 ⅜ in	1 ¾ in	4 in	CB222832	1	**13T969**
1 7⁄16 in	1 ⅝ in	1 ¾ in	CB232614	1	**13T977**
1 7⁄16 in	1 ⅝ in	3 in	CB232624	1	**13T979**
1 7⁄16 in	1 ¾ in	2 ¼ in	CB232818	1	**13T985**
1 7⁄16 in	1 ¾ in	3 in	CB232824	1	**13T986**
1 7⁄16 in	1 ¾ in	4 in	CB232832	1	**13T987**
1 7⁄16 in	1 ⅞ in	3 in	CB233024	1	**13T994**
1 7⁄16 in	1 15⁄16 in	3 in	CB233124	1	**13T999**
1 7⁄16 in	2 in	4 in	CB233232	1	**13U006**
1 ½ in	1 ⅝ in	2 in	CB242616	1	**13U007**
1 ½ in	1 11⁄16 in	2 ¾ in	CB242722	1	**13U008**
1 ½ in	1 ¾ in	1 in	CB242808	1	**13U009**
1 ½ in	1 ¾ in	1 ¼ in	CB242810	1	**13U010**
1 ½ in	1 ¾ in	1 ½ in	CB242812	1	**13U011**
1 ½ in	1 ¾ in	2 in	CB242816	1	**13U013**
1 ½ in	1 ¾ in	3 in	CB242824	1	**13U016**
1 ½ in	1 ⅞ in	1 ½ in	CB243012	1	**13U023**
1 ½ in	1 ⅞ in	2 in	CB243016	1	**13U024**
1 ½ in	2 in	2 in	CB243216	1	**13U033**
1 ½ in	2 in	3 in	CB243224	1	**13U035**
1 ⅝ in	1 ⅞ in	2 ¼ in	CB263018	1	**13U051**
1 ⅝ in	2 in	1 ¾ in	CB263214	1	**13U054**
1 ¾ in	2 in	1 ½ in	CB283212	1	**12D340**
1 ¾ in	2 in	2 in	CB283216	1	**12D341**
1 ¾ in	2 in	2 ¼ in	CB283218	1	**12D342**
1 ¾ in	2 in	3 in	CB283224	1	**12D344**
1 ¾ in	2 ⅛ in	2 ½ in	CB283420	1	**12D349**
1 ¾ in	2 ¼ in	3 in	CB283624	1	**12D360**
1 ⅞ in	2 ⅛ in	2 ½ in	CB303420	1	**12D373**
2 in	2 ¼ in	2 in	CB323616	1	**12D403**
2 in	2 ½ in	2 in	CB324016	1	**12D416**
2 in	2 ½ in	2 ½ in	CB324020	1	**12D417**
2 in	2 ½ in	3 in	CB324024	1	**12D418**
2 in	2 ½ in	5 in	CB324040	1	**12D422**
2 3⁄16 in	2 ⅝ in	5 in	CB354240	1	**12D434**
2 ¼ in	2 ½ in	3 in	CB364024	1	**12D443**
2 7⁄16 in	2 15⁄16 in	5 in	CB394740	1	**12D471**
2 7⁄16 in	3 in	3 ¾ in	CB394830	1	**12D473**
2 ½ in	2 ¾ in	3 in	CB404424	1	**12D476**
2 ½ in	3 in	3 in	CB404824	1	**12D481**
3 in	3 ½ in	9 in	CB485672	1	**11Y938**
4 in	4 ½ in	4 in	CB647232	1	**11Y961**

BESSEY

4TDJ6

39F028

45ZM98

Induction Bearing Heaters

- 60 Hz

Can be used on bearings, sprockets, gears, couplings, and sleeves. Raising blocks lift bearing heater crossbar to accommodate larger diameter bearings. 45ZM98 includes heat protective gloves rated to 300°F.

Voltage	Amps	Bearing Max. OD	Bearing Width	Max. Temp.	Crossbars Included	Mfr. Model	Item No.
Bearing Heaters							
120 V	17 A	11 in	4 in	250 °F	¾", 2"	SC 110V	**4TDJ6**
240 V	30 A	22 in	7 ½ in	250 °F	1¼", 3"	BC 220V	**4TDJ7**
240 V	30 A	22 in	11 ½ in	250 °F	1¼", 3"	BCS 220V	**39F028**
480 V	20 A	22 in	7 ½ in	250 °F	1¼", 3"	BC 440V	**4TDJ8**
480 V	20 A	22 in	11 ½ in	250 °F	1¼", 3"	BCS 440V	**39F029**
Portable Bearing Heater with Magnetic Probe and Temperature/Time Control Digital Display							
120 V	15 A	240 mm	120 mm, 4 ¾ in	302 °F	¼", ⅜", ½", ¾", 1⅝"	PV2412	**45ZM98**

Description	For Use With	W	H	Mfr. Model	Pkg. Qty.	Item No.
Optional Bearing Heater Raising Blocks						
Increases Bearing Max. OD to 14"	SC Model Bearing Heaters	2 ⅝ in	2 ⅜ in	SCRB	2	**4TDJ9**
Increases Bearing Max. OD to 32"	BC & BCS Model Bearing Heaters	3 ⅝ in	5 in	BCRB	2	**4TDK1**

BESSEY

Cone Bearing Heaters

- 120V, 60/50 Hz
- 6A, 725W
- Max. temp.: 248°F
- cCSAus and CE Certified

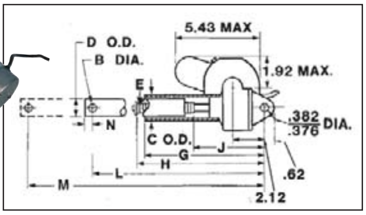
Use heaters on bearings, sprockets, gears, couplings, and sleeves.

Bearing ID Range	Bearing Max. Weight	Width	Height	Mfr. Model	Item No.
Includes: Heat Sensitive Marking Crayon and Heat Protective Gloves Rated to 300°F.					
⅜ in to 8¼ in	15.43 lb	8 ⅝ in	9 ½ in	GCS-NCB	**52HZ27**
Includes: Temperature Control Box and Heat Protective Gloves Rated to 300°F.					
⅜ in to 8¼ in	15.43 lb	8 ⅝ in	9 ½ in	GCS-CB	**52HZ28**

52HZ27

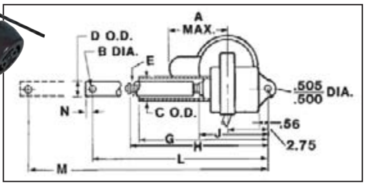
52HZ28

Totally Enclosed Nonventilated 1XFY1



TENV

Totally Enclosed Fan-Cooled 1XFX8



TEFC

Dayton

General Purpose Linear Actuators

- Linear motion: 10" to 12"; can be modified to shorter stroke lengths
- 115VAC, 60 Hz PSC motor
- Automatic thermal protection
- Limit switches: adjustable
- Duty cycle: 25%, 1 min. On/3 min. Off max.
- Single right-hand Acme screw

Adjustable internal limit switches provide control in positioning applications. For additional stroke modification, remove outer and translator tubes and replace with included driver nut. Single-lead, rolled-thread lifting screw for long life and smooth operation. Built-in worm gear is set for quiet gear reduction. Outer tube protects screw and nut from dust. Includes capacitor.

Item No.	Dimensions A	B	C	D	E	G	H	J	L	M	N
1XFY1	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFX9	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFX8	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20 ½"	32 ½"	½"
1XFX7	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20 ½"	32 ½"	½"
1XFX6	3.94"	0.505/0.500"	2.5"	2"	1 to 5"	19"	19.2"	5.3"	20 ½"	30 ½"	¾"

Rated Load	Stroke Length	Speed @ Rated Load	Full Load Amps	Item No.
Totally Enclosed Nonventilated				
300 lb	12 in	19.4 in/min	1.4 A	**1XFY1**
400 lb	12 in	8.4 in/min	1.4 A	**1XFX9**
Totally Enclosed Fan-Cooled				
1,000 lb	12 in	8.9 in/min	1.8 A	**1XFX8**
1,000 lb	12 in	20 in/min	4.2 A	**1XFX7**
1,300 lb	10 in	8.9 in/min	4.2 A	**1XFX6**

Duff-Norton

Compact Linear Actuators

5FTD8

- Die-cast aluminum housing
- Aluminum inner and outer tubes; inner tube is keyed and polished
- Limit switches: nonadjustable
- Duty cycle: 20%
- Self-locking Acme screw gear drive
- Clevis mount
- IP66 sealing protection

Internal limit switches are factory-preset.

CONTROLLER/POWER SUPPLY

Use for AC applications. Features 120VAC input and 3 x 24VDC outputs. Use with 5FTF2 to 5FTF8 actuators only. Battery backup. 6-ft. AC cable. Use 5FTJ5 to connect actuator to controller/power supply. Actuator movement is not synchronized. If using multiple actuators on 1 controller, load must not exceed capacity of a single actuator.

HANDSET

Features 2 buttons with up/down arrows and snap-on hook. For use with Controller/Power Supply 5FTJ2 only. 5-ft. cable.

Rated Load	Stroke Length	Speed @ Rated Load	Full Load Amps	Retracted Length	Mfr. Model	Item No.
12V DC						
27 lb	2 in	78 in/min	2.5 A	6 in	LT25-1-50	**5FTD3**
	3 29⁄32 in	78 in/min	2.5 A	8 in	LT25-1-100	**5FTD4**
	5 29⁄32 in	78 in/min	2.5 A	10 in	LT25-1-150	**5FTD5**
	7 29⁄32 in	78 in/min	2.5 A	12 in	LT25-1-200	**5FTD6**
	9 13⁄16 in	78 in/min	2.5 A	14 in	LT25-1-250	**5FTD7**
	11 13⁄16 in	78 in/min	2.5 A	16 in	LT25-1-300	**5FTD8**
112 lb	1 in	30 in/min	3.5 A	5 in	LT100-1-25	**5FTD9**
	2 in	30 in/min	3.5 A	6 in	LT100-1-50	**5FTE0**
	4 in	30 in/min	3.5 A	8 in	LT100-1-100	**5FTE1**
	5 29⁄32 in	30 in/min	3.5 A	10 in	LT100-1-150	**5FTE2**
	7 29⁄32 in	30 in/min	3.5 A	12 in	LT100-1-200	**5FTE3**
	9 13⁄16 in	30 in/min	3.5 A	14 in	LT100-1-250	**5FTE4**
	11 13⁄16 in	30 in/min	3.5 A	16 in	LT100-1-300	**5FTE5**
225 lb	2 in	12 in/min	3.5 A	6 in	LT225-1-50	**5FTE6**
	4 in	12 in/min	3.5 A	8 in	LT225-1-100	**5FTE7**
	5 29⁄32 in	12 in/min	3.5 A	10 in	LT225-1-150	**5FTE8**
	7 29⁄32 in	12 in/min	3.5 A	12 in	LT225-1-200	**5FTE9**
	9 13⁄16 in	12 in/min	3.5 A	14 in	LT225-1-250	**5FTF0**
	11 13⁄16 in	12 in/min	3.5 A	16 in	LT225-1-300	**5FTF1**
24V DC						
112 lb	1 in	30 in/min	2 A	5 in	LT100-2-25	**5FTF2**
	2 in	30 in/min	2 A	6 in	LT100-2-50	**5FTF3**
	4 in	30 in/min	2 A	8 in	LT100-2-100	**5FTF4**
	5 29⁄32 in	30 in/min	2 A	10 in	LT100-2-150	**5FTF5**
	7 29⁄32 in	30 in/min	2 A	12 in	LT100-2-200	**5FTF6**
	9 13⁄16 in	30 in/min	2 A	14 in	LT100-2-250	**5FTF7**
	11 13⁄16 in	30 in/min	2 A	16 in	LT100-2-300	**5FTF8**

Description	Mfr. Model	Item No.
Accessories		
Controller/Power Supply	LC2B-223112	**5FTJ2**
39" Extension Cable with DIN Plug	LTEC	**5FTJ5**
Handset	LH1-111-1016	**5FTJ3**

Linear Actuators

K2 Series

M-Track Series

Warner Linear

- Aluminum alloy housing
- Totally enclosed nonventilated motor
- 25% duty cycle
- Clevis mount

M-Track 1 Series—Compact, self-contained design is excellent for use in small spaces. Typical uses include throttle control, air vent opening, remote window/mirror positioning, and gate opening.

- Max. ambient temp.: 150°F
- Limit switch: nonadjustable

K2 Series—Hybrid nut and screw design requires no brake. Intended for severe applications such as fertilizer gate control, mower decks, and implement lifts.

- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable

K2X Series—Ball screw with load control wrap spring brake. Excellent for severe, high-load applications such as commercial mower decks, spray booms, and construction equipment.

- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable

Rated Load	Stroke Length	Speed @ Rated Load	Retracted Length	12V DC Full Load Amps	12V DC Item No.	24V DC Full Load Amps	24V DC Item No.
M-Track 1 Series							
100 lb	2 in	27 in/min	6 ¼ in	4.5 A	**18G681**	—	—
	2 in	30 in/min	6 ¼ in	—	—	2.3 A	**18G684**
	4 in	30 in/min	8 ¼ in	4.5 A	**18G682**	2.3 A	**18G685**
	6 in	30 in/min	10 ¼ in	4.5 A	**18G683**	2.3 A	**18G686**

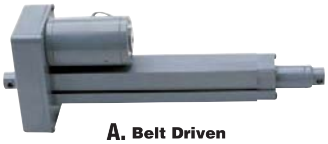
Rated Load	Stroke Length	Speed @ Rated Load	12V DC Retracted Length	12V DC Full Load Amps	12V DC Item No.	24V DC Retracted Length	24V DC Full Load Amps	24V DC Item No.	115V AC Retracted Length	115V AC Full Load Amps	115V AC Item No.
K2 SERIES											
600 lb	4 in	60 in/min	10 ¼ in	25 A	**18G641**	10 ¼ in	13 A	**18G651**	15 in	5 A	**18G661**
	6 in	60 in/min	12 ¼ in	25 A	**18G642**	12 ¼ in	13 A	**18G652**	17 in	5 A	**18G662**
	8 in	60 in/min	14 ¼ in	25 A	**18G643**	14 ¼ in	13 A	**18G653**	19 in	5 A	**18G663**
	12 in	60 in/min	18 ¼ in	25 A	**18G644**	18 ¼ in	13 A	**18G654**	23 in	5 A	**18G664**
	18 in	60 in/min	24 ¼ in	25 A	**18G645**	24 ¼ in	13 A	**18G655**	29 in	5 A	**18G665**
1,200 lb	4 in	30 in/min	10 ¼ in	25 A	**18G646**	10 ¼ in	13 A	**18G656**	15 in	5 A	**18G666**
	6 in	30 in/min	12 ¼ in	25 A	**18G647**	12 ¼ in	13 A	**18G657**	17 in	5 A	**18G667**
	8 in	30 in/min	14 ¼ in	25 A	**18G648**	14 ¼ in	13 A	**18G658**	19 in	5 A	**18G668**
	12 in	30 in/min	18 ¼ in	25 A	**18G649**	18 ¼ in	13 A	**18G659**	23 in	5 A	**18G669**
	18 in	30 in/min	24 ¼ in	25 A	**18G650**	24 ¼ in	13 A	**18G660**	29 in	5 A	**18G670**
K2X SERIES											
1,200 lb	4 in	54 in/min	12 in	25 A	**18G750**	12 in	13 A	**18G760**	15 in	5 A	**18G770**
	6 in	54 in/min	14 in	25 A	**18G751**	14 in	13 A	**18G761**	17 in	5 A	**18G771**
	8 in	54 in/min	16 in	25 A	**18G752**	16 in	13 A	**18G762**	19 in	5 A	**18G772**
	12 in	54 in/min	20 in	25 A	**18G753**	20 in	13 A	**18G763**	23 in	5 A	**18G773**
	18 in	54 in/min	26 in	25 A	**18G754**	26 in	13 A	**18G764**	29 in	5 A	**18G774**
2,200 lb	4 in	30 in/min	12 in	25 A	**18G755**	12 in	13 A	**18G765**	15 in	5 A	**18G775**
	6 in	30 in/min	14 in	25 A	**18G756**	14 in	13 A	**18G766**	17 in	5 A	**18G776**
	8 in	30 in/min	16 in	25 A	**18G757**	16 in	13 A	**18G767**	19 in	5 A	**18G777**
	12 in	30 in/min	20 in	25 A	**18G758**	20 in	13 A	**18G768**	23 in	5 A	**18G778**
	18 in	30 in/min	26 in	25 A	**18G759**	26 in	13 A	**18G769**	29 in	5 A	**18G779**

Duff-Norton

Industrial-Duty Linear Actuators

- Higher speeds and duty cycles
- Aluminum housing
- Can replace pneumatic and hydraulic cylinders
- Limit switches and clutch: adjustable
- Double male clevis mount

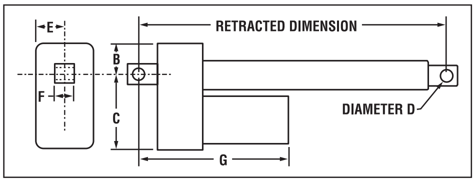
Dependable systems are designed to handle the rated load in tension and compression applications. Fast installation. Belt-driven models have a stainless steel translating tube. Gear-driven actuators have a zinc-plated translating tube. 12VDC models have permanent magnet motors. 115VAC thermally protected actuators have 60-Hz permanent split capacitor motors.



A. Belt Driven
5ZC47

B. Gear Driven
5ZC29

C. Gear Driven
5ZC41



Key	Rated Load	Stroke Length	Speed @ Rated Load	Duty Cycle*	Voltage	Full Load Amps	Retracted Length	Dimensions B	C	D	E	F	G	Mfr. Model	Item No.
Double Clevis Mount, Belt Driven with 2 External Adjustable Reed Limit Switches															
A	100 lb	4 in	42 in/min	25 %	12V DC	7 A	8 ¾ in	1 in	2.15 in	0.25 in	1.08 in	0.63 in	5.25 in	TMD01-1906-4	**5ZC45**
A	100 lb	8 in	42 in/min	25 %	12V DC	7 A	12 ¾ in	1 in	2.15 in	0.25 in	1.08 in	0.63 in	5.25 in	TMD01-1906-8	**5ZC46**
A	100 lb	12 in	42 in/min	25 %	12V DC	7 A	16 ¾ in	1 in	2.15 in	0.25 in	1.08 in	0.63 in	5.25 in	TMD01-1906-12	**5ZC44**
A	250 lb	4 in	24 in/min	25 %	12V DC	7 A	9 in	1.8 in	2.88 in	0.25 in	1.59 in	0.75 in	6.06 in	TMD02-1906-4	**5ZC48**
A	250 lb	8 in	24 in/min	25 %	12V DC	7 A	13 in	1.8 in	2.88 in	0.25 in	1.59 in	0.75 in	6.06 in	TMD02-1906-8	**5ZC49**
A	250 lb	12 in	24 in/min	25 %	12V DC	7 A	17 in	1.8 in	2.88 in	0.25 in	1.59 in	0.75 in	6.06 in	TMD02-1906-12	**5ZC47**
Double Clevis Mount, Gear Driven with Adjustable Travel/Load Limiting Friction-Disc Clutch															
B	500 lb	6 in	42 in/min	18 %	12V DC	11 A	14 ¼ in	1.38 in	7.69 in	0.51 in	1.32 in	0.75 in	3.27 in	MPD6405-6	**5ZC34**
B	500 lb	12 in	42 in/min	18 %	12V DC	11 A	20 ¼ in	1.38 in	7.69 in	0.51 in	1.32 in	0.75 in	3.27 in	MPD6405-12	**5ZC32**
B	500 lb	18 in	42 in/min	18 %	12V DC	11 A	26 ¼ in	1.38 in	7.69 in	0.51 in	1.32 in	0.75 in	3.27 in	MPD6405-18	**5ZC33**
Double Clevis Mount, Gear Driven with 2 Internal Adjustable Limit Switches															
B	500 lb	6 in	35 in/min	28 %	115V AC	2.2 A	14 ¼ in	1.75 in	8.19 in	0.51 in	1.72 in	0.75 in	5.69 in	GMPB6905-6	**5ZC31**
B	500 lb	12 in	35 in/min	28 %	115V AC	2.2 A	20 ¼ in	1.75 in	8.19 in	0.51 in	1.72 in	0.75 in	5.69 in	GMPB6905-12	**5ZC29**
B	500 lb	18 in	35 in/min	28 %	115V AC	2.2 A	26 ¼ in	1.75 in	8.19 in	0.51 in	1.72 in	0.75 in	5.69 in	GMPB6905-18	**5ZC30**
C	1,500 lb	6 in	50 in/min	17 %	115V AC	6.5 A	20 in	2.12 in	5.75 in	0.75 in	2.3 in	1 in	15.75 in	SPA6415-6	**5ZC43**
C	1,500 lb	12 in	50 in/min	17 %	115V AC	6.5 A	26 in	2.12 in	5.75 in	0.75 in	2.3 in	1 in	15.75 in	SPA6415-12	**5ZC41**
C	1,500 lb	18 in	50 in/min	17 %	115V AC	6.5 A	32 in	2.12 in	5.75 in	0.75 in	2.3 in	1 in	15.75 in	SPA6415-18	**5ZC42**

** Duty cycle is based on 75°F ambient temperature. To prevent motor overheating, the actual operating time should be equally spaced throughout any period of elapsed time.*

Duff-Norton

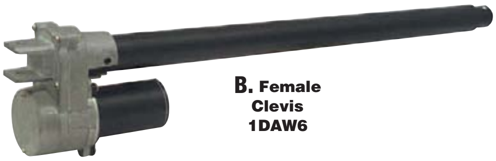
Commercial-Duty Linear Actuators

- Lower duty cycles
- Die-cast aluminum housing
- Can replace pneumatic and hydraulic cylinders
- Limit switches: adjustable

Clevis-mount models have nonventilated enclosures. They feature a cross hole in the extension tube to speed installation. AC models have totally enclosed, permanent split capacitor motors with auto thermal protection and onboard capacitor. DC models have permanent magnet motors without thermal protection.

2DGF8 motor is totally enclosed nonventilated. The actuator installs easily with pipe mount on the housing and a spherical rod end on the extension tube.

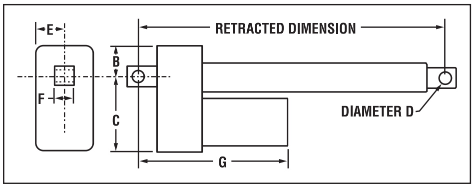
A. Male Clevis
1DAV6



B. Female Clevis
1DAW6

C. Female Clevis
1DAW8

D. Pipe and Rod End
2DGF8



Key	Rated Load	Stroke Length	Speed @ Rated Load	Duty Cycle*	Voltage	Full Load Amps	Retracted Length	Dimensions B	C	D	E	F	G	Item No.
Male Clevis Mount, Gear Driven														
A	450 lb	4 in	16 in/min	17 %	115V AC	1.4 A	11 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAV6**
A	450 lb	8 in	16 in/min	17 %	115V AC	1.4 A	15 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAV7**
A	450 lb	12 in	16 in/min	17 %	115V AC	1.4 A	19 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAV8**
A	560 lb	4 in	13 in/min	17 %	115V AC	1.4 A	11 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAV9**
A	560 lb	8 in	13 in/min	17 %	115V AC	1.4 A	15 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAW1**
A	560 lb	12 in	13 in/min	17 %	115V AC	1.4 A	19 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAW2**
A	675 lb	4 in	9 in/min	17 %	115V AC	1.4 A	11 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAW3**
A	675 lb	8 in	9 in/min	17 %	115V AC	1.4 A	15 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAW4**
A	675 lb	12 in	9 in/min	17 %	115V AC	1.4 A	19 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	0.79 in	6.72 in	**1DAW5**
Female Clevis Mount, Gear Driven														
B	675 lb	12 in	13 in/min	17 %	12V DC	10 A	19 ½ in	1.46 in	4.54 in	0.39 in	1.67 in	1.73 in	7.04 in	**1DAW6**
B	675 lb	24 in	13 in/min	17 %	12V DC	10 A	31 ½ in	1.46 in	4.54 in	0.39 in	1.67 in	1.73 in	7.04 in	**1DAW7**
C	675 lb	12 in	16 in/min	17 %	115V AC	1.6 A	19 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	1.73 in	6.72 in	**1DAW8**
C	675 lb	24 in	16 in/min	17 %	115V AC	1.6 A	31 ½ in	1.46 in	4.54 in	0.39 in	1.77 in	1.73 in	6.72 in	**1DAW9**
Pipe and Rod End Mount, Gear Driven														
D	660 lb	24 in	9 in/min	17 %	115V AC	1.4 A	38 ¾ in	1.46 in	4.54 in	0.512 in	1.67 in	1.43 in	7.7 in	**2DGF8**

** Duty cycle is based on 75°F ambient temperature. To prevent motor overheating, the actual operating time should be equally spaced throughout any period of elapsed time.*

Find Mounting Brackets and more Vibrator Accessories on Grainger.com.

Dayton
1DYN1

2P Series
6L740

SPRT Series
4HR16

SPWT Series
4HR18

Dayton VIBCO VIBRATORS

Electric Vibrators

Dayton—Quiet-operating units have a pressurized aluminum housing and feature prelubricated bearings; oversize vacuum-impregnated windings that withstand vibration and high centrifugal force; and steel end caps. Use in bins, chutes, hoppers, screens, feeders, compaction tables, and concrete pumping.

Dayton Micro models are compact for use in small spaces.

- Force adjustable with eccentric weights (except 1DYN5 is not adjustable)
- Continuous duty at 100% output force

VIBCO 2P and 4P Series—High-heat-resistant winding and oversize bearings help improve safety and extend service life. Terminal box offers easy connection and change of voltage. Meet ASTM and ASME standards.

2P models are designed for use on bins containing fine to granular materials, to pack coarse materials, and to consolidate concrete.

4P models are designed for bins containing lumpy or sticky materials, to pack light fluffy materials, and for typical screen vibrator uses.

- Adjustable eccentrics for easy change of force
- Continuous duty motor
- Oversize electric motor for higher safety factor (watts/lb. impact)

VIBCO Small-Impact Line—Designed to activate small hoppers, screens, chutes, tables and filling machines where a small shake is needed. Compact, noiseless vibrators help provide controlled flow of all materials, including fine powders, flakes, pills, bottle caps, and jars. Meet ASTM and ASME standards.

Heavy-duty 4HR13, 4HR14, 4HR16, and 4HR17 have oversize bearing, and the end bell is cast iron for extra-long life.

- Speed and force can be adjusted with rheostats or speed adjusters
- 4HR18 and 4HR19 have a continuous-duty motor with convenient 115V plugin

Force Rating	Voltage VAC	Phase	Amps	Speed	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
Dayton Micro with TENV Motor											
20 lb	115V AC	1	0.8	3600 vpm	76	5 ¾ in	3 ½ in	3 in	132 lb	1DYN5	**1DYN5**
64 lb	115V AC	1	0.8	3600 vpm	76	5 ¾ in	4 ⅜ in	3 in	704 lb	1DYN6	**1DYN6**
143 lb	115V AC	1	0.5	3600 vpm	60	6 ⅜ in	4 5⁄16 in	3 ⅛ in	1,433 lb	23Y181	**23Y181**
Dayton with TENV Motor											
157 lb	115V AC	1	1.03	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,300 lb	1DYN1	**1DYN1**
	230/460V AC	3	0.36/0.18	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,300 lb	1DYL3	**1DYL3**
209 lb	115V AC	1	1.3	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	2,430 lb	1DYN2	**1DYN2**
	230/460V AC	3	0.36/0.18	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	2,430 lb	1DYL4	**1DYL4**
417 lb	115V AC	1	2.62	3600 vpm	76	9 7⁄64 in	5 ⅛ in	6 ¼ in	4,170 lb	1DYN3	**1DYN3**
	230/460V AC	3	0.70/0.35	3600 vpm	76	8 ½ in	5 ⅛ in	6 ¼ in	4,170 lb	1DYL5	**1DYL5**
712 lb	115V AC	1	3.43	3600 vpm	76	10 in	6 ⅛ in	7 in	7,120 lb	1DYN4	**1DYN4**
	230/460V AC	3	0.90/0.45	3600 vpm	76	10 in	6 ⅛ in	7 in	7,120 lb	1DYL6	**1DYL6**
1177 lb	230/460V AC	3	1.94/0.97	3600 vpm	76	13 ¼ in	6 ⅝ in	8 in	11,770 lb	1DYL7	**1DYL7**
1766 lb	230/460V AC	3	3.00/1.50	3600 vpm	76	12 ⅝ in	9 ¼ in	8 ¼ in	17,640 lb	1DYL8	**1DYL8**
2233 lb	230/460V AC	3	3.90/1.95	3600 vpm	76	15 ⅝ in	8 ¼ in	8 ¼ in	22,330 lb	1DYL9	**1DYL9**
VIBCO 2P & 4P Series with TENV Motor											
50 to 100 lb	115V AC	1	0.5	3600 vpm	60 @ 3 ft	7 ⅞ in	4 ⅛ in	5 in	750 lb	2P-75-1	**6L738**
50 to 200 lb	230/460V AC	3	1.0/0.5	1800 vpm	60	11 ½ in	5 ¾ in	6 ¾ in	3,000 lb	4P-350-3	**4HR70**
100 to 175 lb	115V AC	1	0.5	3600 vpm	63 @ 3 ft	8 3⁄16 in	4 ⅛ in	5 in	1,500 lb	2P-100-1	**4HR27**
	460V AC	3	0.7	3600 vpm	63 @ 3 ft	8 3⁄16 in	4 ⅛ in	5 in	1,500 lb	2P-100-3-460V	**4HR29**
100 to 500 lb	115/230V AC	1	6.0/3.0	1800 vpm	63	13 ⅛ in	6 ½ in	7 ½ in	7,000 lb	4P-700-1	**4HR77**
	230/460V AC	3	1.2/0.6	1800 vpm	63	13 ⅛ in	6 ½ in	7 ½ in	7,000 lb	4P-700-3	**6L745**
100 to 1100 lb	115/230V AC	1	5.0/2.5	3600 vpm	64 @ 3 ft	13 ½ in	6 ½ in	7 ½ in	9,000 lb	2P-450-1	**6L743**
	230/460V AC	3	1.2/0.6	3600 vpm	64 @ 3 ft	12 ⅜ in	6 ½ in	7 ½ in	9,000 lb	2P-450-3	**6L744**
100 to 1750 lb	115/230V AC	1	8.0/4.0	3600 vpm	70 @ 3 ft	15 ¼ in	7 ½ in	8 ½ in	17,000 lb	2P-800-1	**4HR46**
	230/460V AC	3	2.0/1.0	3600 vpm	70 @ 3 ft	14 ⅜ in	7 ½ in	8 ½ in	17,000 lb	2P-800-3	**4HR47**
130 to 250 lb	115V AC	1	1.80	3600 vpm	63 @ 3 ft	10 ¾ in	4 ⅞ in	6 ¼ in	3,000 lb	2P-150-1	**6L739**
	230/460V AC	3	0.6/0.3	3600 vpm	63 @ 3 ft	10 ¾ in	4 ⅞ in	6 ¼ in	3,000 lb	2P-150-3	**6L740**
180 to 400 lb	115/230V AC	1	3.0/1.5	3600 vpm	62 @ 3 ft	11 ½ in	5 ¾ in	6 ¾ in	4,500 lb	2P-200-1	**6L741**
	230/460V AC	3	1.0/0.5	3600 vpm	62 @ 3 ft	11 ½ in	5 ¾ in	6 ¾ in	4,500 lb	2P-200-3	**6L742**
250 to 800 lb	230/460V AC	3	1.2/0.6	1800 vpm	63	15 ½ in	6 ½ in	7 ⅝ in	10,000 lb	4P-1000-3	**4HR60**
VIBCO SPR Small-Impact Line with Open Motor											
20 lb	115V AC	1	0.4	1600 vpm	60	5 in	5 in	3 ½ in	150 lb	SPR-20	**4HR12**
	115V AC	1	0.7/3.2	3200 vpm	60	5 in	5 in	3 ½ in	200 lb	SPR-21	**6L727**
VIBCO SPR Small-Impact Line with TEFC Motor											
25 lb	115V AC	1	1.12	1600 vpm	60	7 in	6 in	4 ¼ in	250 lb	SPR-40	**6L728**
60 lb	115V AC	1	1.27/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	600 lb	SPR-60	**6L729**
	115V AC	1	1.27/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	600 lb	SPR-60HD	**4HR13**
80 lb	115V AC	1	1.36/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	800 lb	SPR-80	**6L730**
	115V AC	1	1.36/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	800 lb	SPR-80HD	**4HR14**
VIBCO SPRT Small-Impact Line with TENV Motor											
20 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 in	5 in	3 ½ in	200 lb	SPRT-21	**4HR15**
60 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	600 lb	SPRT-60	**6L731**
	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	600 lb	SPRT-60HD	**4HR16**
80 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	800 lb	SPRT-80	**6L732**
	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	800 lb	SPRT-80HD	**4HR17**
VIBCO SPWT Small-Impact Line with Non-Ventilated, Totally Enclosed, Watertight Motor											
20 lb	115V AC	1	0.7/0.32	3200 vpm	60	5 ⅜ in	5 ½ in	6 ½ in	200 lb	SPWT-21	**4HR18**
80 lb	115V AC	1	0.7/0.32	3200 vpm	60	5 ⅜ in	5 ½ in	6 ½ in	800 lb	SPWT-80	**4HR19**

6L736

VIBCO VIBRATORS

Electric Vibrators with Adjustable Speed and Force

- Continuous duty 950 to 2500 vpm
- Intermittent duty 2500 to 4000 vpm
- 1 phase

Heavy-duty vibrators' easy speed/impact dial control helps keep even hard-to-move materials in motion. The 115V plug fits standard outlets; with the TENV housing, these vibrators are great for outdoor and indoor use.

Force Rating	Amps	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
100 lb	1.3	68 @ 3 ft	6 ¾ in	6 in	4 ¼ in	1,000 lb	SCR-100	**6L734**
200 lb	2.60	70 @ 3 ft	8 1⁄16 in	4 ⅞ in	4 ⅛ in	2,000 lb	SCR-200	**6L735**
500 lb	3.5	70 @ 3 ft	13 3⁄16 in	5 ¾ in	6 ¾ in	5,000 lb	SCR-500	**6L736**
1000 lb	6.50	72 @ 3 ft	14 ¼ in	6 ½ in	7 ½ in	10,000 lb	SCR-1000	**6L737**

12VDC Vibrators

Battery-operated units are great for mobile applications. They are totally enclosed, watertight, and weather-resistant for use on farm equipment, heavy dump trucks, tailgate spreaders and salters, concrete pumps, and screens. Also for cleaning and to aid the flow of material from bins and chutes. Big Bertha standard dump truck vibrator 6L765 comes with a wiring and mounting kit.

1DYN7

6L765

Force Rating	Amps	Speed	dBA	Overall Dim. L	Overall Dim. W	Overall Dim. H	Bin Wt. Cap.	Mfr. Model	Item No.	
Dayton Continuous Duty										
110 lb	6.60	3000 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,100 lb	1DYN7	**1DYN7**	
437 lb	13.30	3000 vpm	76	8 ⅝ in	6 ½ in	5 ½ in	4,370 lb	1DYN8	**1DYN8**	
VIBCO DC Series Continuous Duty										
100 lb	12/6	4000 vpm	72	6 ¾ in	6 in	4 1⁄16 in	1,000 lb	DC-100	**4HP57**	
300 lb	14/7	4000 vpm	73	8 ⅝ in	4 1⁄16 in	4 ⅝ in	2,000 lb	DC-200	**6L769**	
350 lb	16/8	4000 vpm	74	9 in	4 1⁄16 in	5 1⁄16 in	3,000 lb	DC-300	**4HP59**	
400 lb	22/11	7000 vpm	75	8 ¼ in	4 ⅞ in	4 3⁄16 in	4,000 lb	DC-450T	**6L768**	
VIBCO DC Series Intermittent Duty										
700 lb	25/13	6000 vpm	75	7 ¾ in	5 ⅝ in	5 9⁄16 in	7,000 lb	DC-700	**4HP60**	*
1000 lb	32/16	5000 vpm	82	11 ⅛ in	5 ⅝ in	6 ¼ in	10,000 lb	DC-1600	**6L766**	*
3500 lb	105/75	4000 vpm	70	11 ½ in	10 ⅛ in	9 1⁄16 in	35,000 lb	DC-3500	**6L765**	†

Duty based on 30 min./hr. † Duty based on 15 sec./min.

488H55

Internal Concrete Vibrators

- 115VAC, 15A, 3 HP

Motors can drive any head and shaft combination, for a convenient, consolidated solution. Square-head technology provides consistent, outstanding finishes with easy-to-use operation. Rugged, highly durable construction.

Force Rating	Speed	Head Size	Shaft Length	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Electric Vibrators						
300 lbf	10,500 vpm	1 in	7 ft	7	W995G1T-100-7	**488H55**
			10 ft		W995G1T-100-10	**488H56**
			14 ft		W995G1T-100-14	**488H57**
1,100 lbf		1⅜ in	7 ft	12	W995G1T-138-7	**488H58**
			10 ft		W995G1T-138-10	**488H59**
			14 ft		W995G1T-138-14	**488H60**
		1¾ in	7 ft	16	W995G1T-175-7	**488H61**
			10 ft		W995G1T-175-10	**488H62**
			14 ft		W995G1T-175-14	**488H63**
2,500 lbf		2 in	7 ft	20	W995G1T-200-7	**488H64**
			10 ft		W995G1T-200-10	**488H65**
			14 ft		W995G1T-200-14	**488H66**

Description	Mfr. Model	Item No.
Internal Concrete Vibrator Motor		
Square Heads and Flexible Shafts Sold Separately	W995G1T	**488H67**
Square Vibrator Heads		
1 in Sq.	W877-526	**20CL38**
1⅜ in Sq.	W878-533	**20CL39**
1¾ in Sq.	W878-540	**20CL40**
2 in Sq.	W878-563	**20CL41**
Vibrator Flexible Shafts For Use With 1 in Square Heads		
7 ft	W988-907	**20CL42**
10 ft	W988-910	**20CL43**
14 ft	W988-914	**20CL44**
Vibrator Flexible Shafts For Use With 1⅜ in to 2 in Square Heads		
7 ft	W989-507	**20CL45**
10 ft	W989-510	**20CL46**
14 ft	W989-514	**20CL47**

Pneumatic 4HP68

Electric 4HP70

Internal Concrete Vibrators

Pneumatic—Low-maintenance vibrators offer high force performance with low air consumption and only 1 moving part. Each includes 10-ft. hose.

Electric—Portable, lightweight, and easy-to-carry machines come with a shoulder pack for extra convenience.

- 11,000 vpm
- 115VAC plug-in with waterproof switch

Force Rating	CFM @ 80 psi	Speed @ 80 psi	Head Size (Dia. x Length)	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Pneumatic						
450 lbf	21.5	18,000 vpm	1⅜ in x 10¾ in	20	KA-1-3/8	**4HP67**
800 lbf	26	17,000 vpm	1¾ in x 11½ in	35	KA-1-3/4	**4HP66**
2,100 lbf	36	16,000 vpm	2½ in x 13 in	40	KA-2-1/2	**4HP68**
3,200 lbf	40	16,000 vpm	3 in x 15 in	42	KA-3	**4HP69**

Force Rating	Head Size (Dia. x Length)	Shaft Length	Max. Cubic Yd. per Hr.	Mfr. Model	Item No.
Electric 1 ½ hp, 15 AMP					
430 lbf	1¼ in x 14 in	7 ft	8	JVS7-1-1/4	**4HR11**
		10 ft		JVS10-1-1/4	**4HP96**
760 lbf	1½ in x 14 in	7 ft	12	JVS7-1-1/2	**4HR10**
		10 ft		JVS10-1-1/2	**4HP95**
Electric 2 ½ hp, 17 AMP					
760 lbf	1½ in x 14 in	10 ft	12	ACE10-1-1/2	**4HP70**
1,100 lbf	1¾ in x 14 in	7 ft	24	ACE7-1-3/4	**4HP91**
		10 ft		ACE10-1-3/4	**4HP71**

Fluidization Nozzles and Vibrating Bin Aerators

Fluidization Nozzle—Emits a continuous low-pressure air flow to keep dry powders and granular products moving efficiently through bins or silos.

Bin Aerators—Devices combine product aeration with an additional slight vibration on the silo wall to aid flow of fine powdery materials inside silos or bins. Will not damage silos. 24A968 stainless steel construction is for use in more demanding applications.

- FDA 177-2600 Approved

24A965

24A967

Air Consumption	Material	Inlet Port	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
Low Pressure Fluidization Nozzle						
0.03 cfm @ 2.9 PSI	Polymer	½"	1 9⁄16	1 9⁄16	2¾	**24A965**
Vibrating Bin Aerators						
8.82 cfm @ 87 psi	Aluminum	⅜"	4⅛	4⅛	2¾	**24A967**
8.82 cfm @ 87 psi	Stainless Steel	⅜"	4⅛	4⅛	2¾	**24A968**

Find Mounting Brackets and more Vibrator Accessories on Grainger.com.

4HT14

VIBCO VIBRATORS

Hydraulic Vibrators

- Adjustable speed

Unaffected by dirty, muddy, or wet locations, hydraulic vibrators offer a low-cost solution for OEM applications. They produce high-frequency vibration with low noise levels and can be mounted in any position.

Force Rating @ 1000 psi	GPM @ 1000 psi	Speed @ 1000 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet/Outlet Port NPT	Mfr. Model	Item No.
488 lb	6.5	7,400 vpm	5 ¼ in	3 ¼ in	4 ⅜ in	3,320 lb	⅜ in	B-190	**4HT14**
534 lb	6.5	5,800 vpm	7 in	3 ⅜ in	5 ⅜ in	3,970 lb	½ in	B-250	**4HT15**
617 lb	7	5,300 vpm	6 ⅞ in	3 ⅝ in	5 ⅞ in	4,450 lb	½ in	B-320	**4HT16**

6L764

Pneumatic Railroad Carshakers

VIBCO VIBRATORS

- Max. 100 psi
- 1" NPT inlet port

Heavy-duty rotary vibrators can move even the most stubborn materials, with 30% less air consumption than comparable piston vibrators. Lightweight, portable, and easy to handle, they fit all standard wedge brackets on railroad cars. Virtually noiseless operation.

6L764 is designed for unloading grain, cement, and similar materials. It includes an 18" flex hose with muffler and quick-disconnect fittings.

4HV43 handles materials with moisture content as well as salts, clay-lime lumps, and like materials.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Mfr. Model	Item No.
7000 lb	48	7,200 vpm	78	8 ⅝ in	8 ⅝ in	9 ¾ in	CCW-5000	**6L764**
7200 lb	58	8,800 vpm	85	8 ⅝ in	8 ⅝ in	9 ⅞ in	SVRWS-6500	**4HV43**

1DYP6

Dayton

Silent Pneumatic Turbine Vibrators

Turbine has integrated flyweights that rotate on 2 oversize ball bearings. Units provide high-frequency, controllable speed, and low-amplitude, gentle vibration. Aluminum housing. For use with applicators, silos, hoppers, piping, and chutes.

Force Rating	Speed @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Item No.
581 lb	20,000 vpm	10.1	21,000 vpm	64	4 ½ in	1 ⅝ in	2 ½ in	5,810 lb	¼ in NPT	¼ in BSPP	Included	**1DYP6**
659 lb	28,500 vpm	10.1	31,000 vpm	61	4 ½ in	1 ⅝ in	2 ½ in	6,590 lb	¼ in NPT	¼ in BSPP	Included	**1DYP5**
1157 lb	19,000 vpm	16	23,000 vpm	66	5 in	2 ¼ in	3 ⅛ in	11,570 lb	¼ in NPT	¼ in BSPP	Included	**1DYP7**
1718 lb	12,500 vpm	26.5	14,500 vpm	67	6 ¼ in	2 ⅞ in	4 in	17,180 lb	⅜ in NPT	⅜ in BSPP	Included	**1DYP9**

18K887

CLEVELAND VIBRATOR COMPANY

Silent Pneumatic Turbine Vibrators

Acetal plastic and stainless steel body construction. Great for use in cleanroom and other sterile environments. Have very low air consumption to force ratio. Grade 5 mounting, fasteners included. No lubrication required.

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
11 lb	0.61	19,250 vpm	74	0.81	20,000 vpm	78	1 ¼ in	23/32 in	⅞ in	100 lb	#10-32 UNF	#10-32 UNF	Included	CVT-P-1	**18K887**
25 lb	1.1	20,500 vpm	64	1.4	20,900 vpm	85	1 ½ in	31/32 in	1 9/32 in	200 lb	#10-32 UNF	#10-32 UNF	Included	CVT-P-10	**18K888**
47 lb	2.2	10,580 vpm	79	2.8	11,300 vpm	90	2 ¾ in	1 ¼ in	1 ¾ in	300 lb	⅛ in NPT	⅛ in NPT	Included	CVT-P-30	**18K889**
147 lb	2.8	6,280 vpm	74.5	3.6	6,560 vpm	76	4 ⅛ in	2 1/16 in	2 11/16 in	2,000 lb	¼ in NPT	¼ in NPT	Included	CVT-P-60	**18K890**

Find Mounting Brackets and more Vibrator Accessories on Grainger.com.

VIBCO VIBRATORS

Silent Pneumatic Turbine Vibrators

Vibrators make no more noise than an electric motor. Maintenance-free, no lubrication required. Use 30% less air than comparable pneumatic vibrators and outlast ball and piston vibrators 3 to 1.

VS Series—For rough applications or where exhausted air will not affect production. Simple, compact design.

BVS Series—Threaded exhaust for closed-air environments and other applications where exhausted air must be remotely discharged.

BBS Series—For continuous duty in small applications such as parts feeders, tracks, and foundry matchplates. Versatile 1-bolt mount.

CCF/CCL Series—For heavy-duty applications on large bins, hoppers, chutes, packing tables, screens, and concrete forms.

GIO Series—Can be used with all types of bins that contain fine to granular materials, or for packing coarse materials and unjamming parts in conveyor lines, chutes, and pipes. Corrosion-resistant housing has excellent resistance to solvents. Single-bolt mount for maximum flexibility.

MLT Series—Prelubricated for continuous duty and maintenance-free operation in sanitary applications or where harsh chemicals are present. Threaded exhaust ports seal the system to help you maintain a clean environment. MLTSS HA model vibrator 30FW99 features high amplitude, and is better suited for lumpy or sticky applications. MLTSS HT model vibrator 30FX02 and MLT HT vibrator 30FW95 are suited for higher temperature applications.

MHI Series—Same as MLT Series but designed for intermittent duty, to produce high frequency and maximum forces. MLI HT model vibrator 30FW88 designed for higher temperature applications. Washdown-safe.

VS Series 6L747

BVS Series 6L752

BBS Series 6L759

CCF/CCL Series 6L763

GIO Series 14K260

MLT Series 30FW93

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	Overall Dim. W	Overall Dim. H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
VS Series, Cast Iron Housing															
20 lb	2	12,000 vpm	66	—	—	—	3 7/8 in	1 7/8 in	2 in	200 lb	1/8 in NPT	—	Included	VS-100	**4HV35**
75 lb	2	8,000 vpm	—	2	10,500 vpm	67	4 7/8 in	2 in	2 5/16 in	750 lb	1/8 in NPT	—	Included	VS-130	**6L746**
160 lb	2.3	10,000 vpm	—	2.5	12,000 vpm	70	5 1/8 in	2 7/8 in	3 in	1,600 lb	1/4 in NPT	—	Included	VS-160	**4HV36**
270 lb	3	4,200 vpm	—	3.5	12,000 vpm	70	5 7/16 in	3 1/4 in	3 1/16 in	5,000 lb	1/4 in NPT	—	Included	VS-190	**6L747**
500 lb	3	5,500 vpm	—	3.5	12,000 vpm	70	5 1/2 in	3 5/8 in	3 11/16 in	5,000 lb	1/4 in NPT	—	Included	VS-250	**6L748**
600 lb	4.5	5,200 vpm	—	5.5	6,800 vpm	69	5 1/2 in	4 in	4 3/4 in	7,000 lb	3/8 in NPT	—	Included	VS-320	**6L749**
725 lb	8	4,600 vpm	—	10	5,200 vpm	72	6 7/8 in	4 3/4 in	4 7/8 in	7,250 lb	3/8 in NPT	—	Included	VS-380	**6L750**
900 lb	18	4,000 vpm	—	21	4,500 vpm	77	6 15/16 in	4 3/4 in	5 3/8 in	9,000 lb	1/2 in NPT	—	Included	VS-510	**6L751**
1000 lb	18	4,000 vpm	—	21	4,500 vpm	77	7 3/8 in	4 13/16 in	8 in	10,000 lb	1/2 in NPT	—	Included	VSP-510	**4HV37** *
BVS Series, Cast Iron Housing															
20 lb	2	12,000 vpm	66	—	—	—	3 13/16 in	1 5/8 in	2 7/16 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	BVS-60	**4HV01**
75 lb	2	8,000 vpm	—	2	10,500 vpm	67	4 7/8 in	1 7/8 in	2 5/8 in	750 lb	1/8 in NPT	1/4 in NPT	1A326	BVS-130	**6L752**
160 lb	2.3	9,500 vpm	—	2.5	11,000 vpm	70	5 1/2 in	2 7/8 in	3 5/8 in	1,600 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-160	**4HT96**
270 lb	3	5,500 vpm	—	3.5	7,200 vpm	71	5 1/4 in	3 1/16 in	3 7/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-190	**6L753**
480 lb	3	5,200 vpm	—	3.5	7,200 vpm	72	6 3/4 in	3 9/16 in	3 15/16 in	4,800 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-250	**6L754**
600 lb	4.5	5,500 vpm	—	5.5	6,800 vpm	70	6 3/4 in	4 in	4 7/8 in	5,300 lb	3/8 in NPT	1/2 in NPT	1A328	BVS-320	**6L755**
670 lb	8	4,500 vpm	—	10	5,000 vpm	74	7 15/16 in	4 3/4 in	5 13/16 in	6,700 lb	3/8 in NPT	1/2 in NPT	1A328	BVS-380	**6L756**
900 lb	12	4,000 vpm	—	13	4,500 vpm	77	8 15/16 in	4 3/4 in	5 3/4 in	9,000 lb	1/2 in NPT	3/4 in NPT	6F600	BVS-510	**6L757**
1050 lb	21	3,600 vpm	—	26	4,000 vpm	83	10 3/16 in	5 7/16 in	7 1/4 in	10,500 lb	3/4 in NPT	1 in NPT	6F601	BVS-570	**6L758**
BBS Series, Aluminum Housing															
20 lb	2	10,000 vpm	66	—	—	—	3 1/4 in	1 5/8 in	2 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	BBS-100	**6L759**
75 lb	2	12,000 vpm	—	5.5	17,000 vpm	67	3 1/16 in	1 7/8 in	2 1/4 in	750 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-130	**6L760**
160 lb	2	10,000 vpm	—	7	12,000 vpm	67	4 1/8 in	2 in	2 9/16 in	1,600 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-160	**6L761**
250 lb	2	10,000 vpm	—	7	15,000 vpm	70	4 1/8 in	2 in	2 9/16 in	2,500 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-190	**4HT88**
CCF/CCL Series, Cast Iron Housing															
2000 lb	30	4,000 vpm	—	40	6,000 vpm	78	7 1/2 in	8 1/16 in	7 1/8 in	20,000 lb	3/4 in NPT	3/4 in NPT	Included	CCF-2000	**6L762**
5000 lb	35	4,000 vpm	—	50	6,000 vpm	75	10 1/4 in	8 5/8 in	8 7/8 in	50,000 lb	1 in NPT	1 in NPT	Included	CCF-5000	**6L763**
5000 lb	35	4,000 vpm	—	50	6,000 vpm	75	9 3/4 in	8 5/8 in	8 5/8 in	50,000 lb	1 in NPT	1 in NPT	Included	CCL-5000	**4HV03**
GIO Series, High Density Plastic Housing															
20 lb	3.5	12,000 vpm	66	—	—	—	3 1/4 in	1 5/8 in	2 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	GIO-100	**14K260**
75 lb	4.5	8,000 vpm	67	5.5	10,500 vpm	67	3 3/4 in	1 7/8 in	2 1/4 in	750 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-130	**14K261**
160 lb	5	5,500 vpm	67	7	9,000 vpm	67	4 1/8 in	2 in	2 9/16 in	1,600 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-160	**14K262**
250 lb	5	8,500 vpm	70	7	10,000 vpm	70	4 1/8 in	2 in	2 9/16 in	2,500 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-190	**14K263**
MLT Series, Aluminum Housing															
20 lb	4	12,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	200 lb	1/8 in NPT	1/8 in NPT	Optional	MLT-100	**30FW92**
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 1/2 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLT-130	**30FW93**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	4 1/2 in	1 13/16 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-190	**30FW94**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	4 1/2 in	1 13/16 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-190HT	**30FW95**
480 lb	8	5,200 vpm	72	9	7,200 vpm	72	5 in	3 1/2 in	3 3/8 in	4,800 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-250	**30FW96**
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 3/8 in	4 in	4 1/4 in	5,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLT-320	**30FW97**
MLT Series, 303 Stainless Steel Housing															
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 9/16 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLTSS-130	**30FW98**
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 9/16 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLTSS-130HA	**30FW99**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	5 1/8 in	3 3/8 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLTSS-190	**30FX01**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	5 1/8 in	3 3/8 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLTSS-190HT	**30FX02**
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 in	4 in	3 3/16 in	6,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLTSS-320	**30FX03**
MLT Series, 316L Stainless Steel Housing															
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 in	4 in	3 3/16 in	6,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLTSS-320-316L	**30FX04**
MHI Series, Aluminum Housing															
80 lb	4	24,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	—	1/8 in NPT	1/8 in NPT	Optional	MHI-100	**30FW82**
80 lb	4	24,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	—	1/8 in NPT	1/8 in NPT	Optional	MHI-100S	**30FW83** †
300 lb	4.5	17,200 vpm	68	5.5	21,000 vpm	68	3 1/2 in	1 7/8 in	2 3/8 in	—	1/8 in NPT	1/4 in NPT	Optional	MHI-130	**30FW84**
575 lb	7.5	8,000 vpm	71	8.5	10,500 vpm	71	4 1/2 in	3 3/8 in	3 3/16 in	—	1/4 in NPT	3/8 in NPT	Optional	MHI-190	**30FW85**
965 lb	8	7,400 vpm	72	9	10,200 vpm	72	5 in	3 1/2 in	3 3/8 in	—	1/4 in NPT	3/8 in NPT	Optional	MHI-250	**30FW86**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 in	4 in	4 1/4 in	—	3/8 in NPT	1/2 in NPT	Optional	MHI-320	**30FW87**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 3/8 in	4 in	4 1/4 in	—	3/8 in NPT	1/2 in NPT	Optional	MHI-320HT	**30FW88**
MHI Series, 303 Stainless Steel Housing															
300 lb	4.5	17,200 vpm	68	5.5	21,000 vpm	68	3 1/2 in	1 7/8 in	2 3/8 in	—	1/8 in NPT	1/4 in NPT	Optional	MHISS-130	**30FW89**
575 lb	7.5	8,000 vpm	71	8.5	10,500 vpm	71	4 1/2 in	3 3/8 in	3 1/16 in	—	1/4 in NPT	3/8 in NPT	Optional	MHISS-190	**30FW90**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 in	4 in	4 9/16 in	—	3/8 in NPT	1/2 in NPT	Optional	MHISS-320	**30FW91**

** For portable mounting; requires Bracket 4HW67, sold separately on Grainger.com. † Stainless steel turbine wheel.*

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Dayton
1DYN9

VIBCO V Series
4HV27

VIBCO BV Series
4HT93

VIBCO BB Series
4HT84

Pneumatic Ball Vibrators

DAYTON

Suitable for continuous operation in harsh outdoor conditions with small- to medium-size hoppers, bins, chutes, and pipes. Anodized aluminum housing. Maintenance-free when used with filtered/lubricated air.

VIBCO

Simple ball design is built for rough use and continuous operation on a wide variety of hoppers, bins, and chutes. Clean air and lubrication are recommended for longer life. Threaded exhaust ports.

V and BV Series—V series units are built to fit in minimal space locations. BV series vibrators are designed with industry-standard bolt pattern for easy interchange.

BB Series—Built for small to medium amounts of vibration on laboratory equipment, small hoppers, parts feeders, chutes, and match plates.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
242 lb	9.9	19,500 vpm	76	4 ½ in	2 in	2 ½ in	2,420 lb	¼ in NPT	¼ in BSPP	Included	1DYN9	**1DYN9**
378 lb	12	16,500 vpm	76	5 in	2 ⅜ in	3 ⅛ in	3,780 lb	¼ in NPT	¼ in BSPP	Included	1DYP1	**1DYP1**
451 lb	15.0	14,000 vpm	80	5 in	2 ⅜ in	3 ⅛ in	4,510 lb	¼ in NPT	¼ in BSPP	Included	1DYP2	**1DYP2**
706 lb	20.1	12,500 vpm	80	6 ¼ in	3 ⅛ in	4 in	7,060 lb	⅜ in NPT	⅜ in BSPP	Included	1DYP3	**1DYP3**
891 lb	23.8	10,000 vpm	86	6 ¼ in	3 ⅛ in	4 in	8,910 lb	⅜ in NPT	⅜ in BSPP	Included	1DYP4	**1DYP4**
Force Rating	**CFM @ 60 psi**	**Speed @ 60 psi**	**dB @ 60 psi**	**Overall Dim. L**	**W**	**H**	**Bin Wt. Cap.**	**Inlet Port**	**Outlet Port**	**Muffler**	**Mfr. Model**	**Item No.**
VIBCO												
V Series												
55 lb	6	24,000 vpm	75	3 ⅞ in	1 ¹¹⁄₁₆ in	2 in	550 lb	⅛ in NPT	⅛ in NPT	Included	V-100	**4HV27**
80 lb	7.5	19,000 vpm	72	4 ⅞ in	1 ¹⁵⁄₁₆ in	2 ⁵⁄₁₆ in	800 lb	⅛ in NPT	⅛ in NPT	Included	V-130	**4HV28**
260 lb	10	14,000 vpm	73	5 ¹⁄₁₆ in	2 ³⁄₁₆ in	3 ³⁄₁₆ in	2,600 lb	¼ in NPT	¼ in NPT	1A326	V-190	**4HV29**
380 lb	11	10,500 vpm	72	5 ⁹⁄₁₆ in	2 ⁷⁄₁₆ in	3 ½ in	3,800 lb	¼ in NPT	¼ in NPT	1A326	V-250	**4HV30**
600 lb	15	6,200 vpm	78	6 ⅞ in	2 ¹⁵⁄₁₆ in	4 ⅞ in	6,000 lb	⅜ in NPT	⅜ in NPT	1A327	V-380	**4HV32**
650 lb	14	8,900 vpm	78	5 ⁹⁄₁₆ in	2 ¾ in	4 ⅞ in	6,500 lb	⅜ in NPT	⅜ in NPT	1A327	V-320	**4HV31**
BV Series												
55 lb	6	24,000 vpm	74	3 ⅞ in	1 ¹¹⁄₁₆ in	2 ½ in	550 lb	⅛ in NPT	⅛ in NPT	1A325	BV-60	**4HT95**
80 lb	7.5	19,000 vpm	76	4 ⅞ in	1 ¹⁵⁄₁₆ in	2 ¾ in	800 lb	⅛ in NPT	¼ in NPT	1A326	BV-130	**4HT90**
260 lb	10	14,000 vpm	77	5 ½ in	2 ¼ in	3 ⁹⁄₁₆ in	2,600 lb	¼ in NPT	¼ in NPT	1A326	BV-190	**4HT91**
380 lb	11	10,500 vpm	79	6 ¾ in	2 ⁷⁄₁₆ in	3 ¹⁵⁄₁₆ in	3,800 lb	¼ in NPT	¼ in NPT	1A326	BV-250	**4HT92**
480 lb	14	7,500 vpm	80	6 ¹¹⁄₁₆ in	2 ¾ in	4 ⅞ in	4,800 lb	⅜ in NPT	⅜ in NPT	1A327	BV-320	**4HT93**
600 lb	15	6,200 vpm	82	7 ⅞ in	2 ¹⁵⁄₁₆ in	5 ¾ in	6,000 lb	⅜ in NPT	⅜ in NPT	1A327	BV-380	**4HT94**
BB Series												
55 lb	6	24,000 vpm	75	3 ¼ in	1 ⁹⁄₁₆ in	2 in	550 lb	⅛ in NPT	⅛ in NPT	1A325	BB-100	**4HT84**
80 lb	7.5	19,000 vpm	72	3 ¾ in	1 ¹⁵⁄₁₆ in	2 ¼ in	800 lb	¼ in NPT	¼ in NPT	1A326	BB-130	**4HT85**
140 lb	8	15,000 vpm	76	4 ⅛ in	2 in	2 ⁹⁄₁₆ in	1,400 lb	¼ in NPT	¼ in NPT	1A326	BB-160	**4HT86**
250 lb	11	15,500 vpm	77	4 ⅛ in	2 in	2 ⁹⁄₁₆ in	2,500 lb	¼ in NPT	¼ in NPT	1A326	BB-190	**4HT87**

Dayton
1DYR1

VIBCO 10
Series
4HT24

VIBCO 50
Series
4HT46

VIBCO 55
Series
4HT74

Cleveland
18K850

Pneumatic Piston Vibrators

DAYTON

Cast-iron vibrators are maintenance-free when used with filtered/lubricated air. Start in every mounting orientation to keep material flowing from bins, hoppers, chutes, and pipes. For sticky, coarse, or high-moisture materials.

VIBCO

High-impact and efficient energy transfer ensure a smooth flow of material through bins, chutes, and weigh batchers. Can be used in any mounting orientation. Lubrication required. For industry, mining, chemical plants, plastics, manufacturing, foundries, and paper plants.

10 Series—Basic vibrators for foundry match-plate applications feature all-steel construction with end-mounted single attaching head.

50 Series—All-steel construction withstands abuse and handles tough flow applications including sticky, high-moisture, and coarse materials. Hardened ground piston for long life. 4HT60 long-stroke, low-frequency version is great for material packing applications.

55 Series—Low-cost, 1-pc. cast-iron housing, and only 3 parts, total.

CLEVELAND

Dual-diameter piston allows units to be mounted at any angle without use of springs. Excellent for automatic parts track vibration, packaging/filling machine, and small bin and hopper applications. Include mounting fasteners and push-fit hose connections for quick setup.

All models have a 304 stainless steel housing. 18K850 and 18K852 have mild steel end caps; for use in manufacturing and packaging industries. 18K851 has 304 stainless steel end caps; well-suited for chemical and pharmaceutical industries.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
19.3 lb	2.8	2,340 vpm	87	2 in	2 in	4 ½ in	193 lb	⅛ in NPT	⅛ in BSPP	1A325	23Y178	**23Y178**
33.9 lb	3.7	2,220 vpm	90	2 ⅜ in	2 ⅜ in	4 ½ in	339 lb	¼ in NPT	¼ in BSPP	1A326	23Y179	**23Y179**
397 lb	7.1	3,500 vpm	91	5 ¾ in	3 ⅝ in	3 ⅝ in	3,970 lb	¼ in NPT	¼ in BSPP	Included	1DYR1	**1DYR1**
1323 lb	10.6	3,000 vpm	96	5 ¾ in	3 ⅝ in	4 ¾ in	13,230 lb	⅜ in NPT	⅜ in BSPP	Included	1DYR2	**1DYR2**
VIBCO												
10 Series												
148 lb	4.5	14,500 vpm	90	5 ½ in	1 ⅛ in	1 ⅞ in	100 lb	⅛ in NPT	⅛ in NPT	1A325	10⅝	**4HT28**
182 lb	5	13,000 vpm	91	5 ½ in	1 ¼ in	1 ¹⁵⁄₁₆ in	200 lb	⅛ in NPT	⅛ in NPT	1A325	10¾	**4HT27**
242 lb	5	11,000 vpm	93	5 ⁹⁄₁₆ in	1 ⅝ in	1 ¹⁵⁄₁₆ in	400 lb	⅛ in NPT	⅛ in NPT	1A325	10-1	**4HT24**
325 lb	9	7,000 vpm	95	9 ¼ in	2 ¼ in	2 ¹⁵⁄₁₆ in	1,000 lb	¼ in NPT	¼ in NPT	1A326	10-1-1/4	**4HT26**
50 Series												
242 lb	5	11,000 vpm	90	4 ½ in	2 in	4 ⁹⁄₁₆ in	400 lb	⅛ in NPT	⅛ in NPT	1A325	50-1	**4HT46**
325 lb	9	7,000 vpm	92	6 in	2 ½ in	6 ½ in	1,000 lb	¼ in NPT	¼ in NPT	1A326	50-1-1/4	**4HT51**
585 lb	11	5,200 vpm	95	7 ½ in	3 in	7 ¹⁵⁄₁₆ in	4,000 lb	¼ in NPT	¼ in NPT	1A326	50-1-1/2	**4HT47**
610 lb	15	5,000 vpm	99	9 in	3 ½ in	7 ¹⁵⁄₁₆ in	10,000 lb	¼ in NPT	¼ in NPT	1A326	50-2	**4HT58**
770 lb	31	2,400 vpm	99	9 in	3 ½ in	9 ⁷⁄₁₆ in	20,000 lb	¼ in NPT	¼ in NPT	1A326	50-2L	**4HT60**
55 Series												
242 lb	5	11,000 vpm	91	4 ½ in	2 in	3 ⅞ in	400 lb	¼ in NPT	⁹⁄₁₆ in NPT	1A326	55-1	**4HT74**
325 lb	9	7,000 vpm	94	6 in	2 ½ in	5 ⅝ in	1,000 lb	¼ in NPT	¼ in NPT	1A326	55-1-1/4	**4HT77**
585 lb	11	5,200 vpm	96	9 in	3 ½ in	7 ¼ in	4,000 lb	¼ in NPT	¼ in NPT	1A326	55-1-1/2	**4HT75**
610 lb	15	5,000 vpm	99	9 in	3 ½ in	7 ¼ in	10,000 lb	¼ in NPT	¼ in NPT	1A326	55-2	**4HT80**
1900 lb	30	3,800 vpm	99	10 ½ in	5 in	9 ⁷⁄₁₆ in	30,000 lb	⅜ in NPT	⅜ in NPT	1A327	55-3	**4HT82**
Cleveland												
15 lb	2	16,000 vpm	95	2 ³⁄₁₆ in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-25	**18K850**
15 lb	2	16,000 vpm	95	2 ³⁄₁₆ in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-25 SS	**18K851**
21 lb	2.1	11,400 vpm	101	2 ⅞ in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-38	**18K852**

Fuji Electric Variable Frequency Drives

Fuji Electric

FRENIC-Mini C2 have dynamic torque vector control that calculates the appropriate power based on the motor's load. **FRENIC-EcoPAK** are enclosed drives that are housed with monitoring, bypass, and control options to minimize motor downtime. Packaged solutions communicate with multiple networks. **FRENIC-Eco** fit into tight spaces and feature multiple network compatibility options. **FRENIC-Ace** have dynamic torque vector control that calculates the appropriate power based on the motor's load. OEM drives are customizable to match the configuration of the original manufacturer and ensure consistent performance and proper installation. **FRENIC-5000** have dynamic torque vector control that calculates the appropriate power based on the motor's load. G11 series drives are designed for constant-torque applications in industrial machines, such as conveyance and packaging machinery. P11 series are designed for variable-torque applications such as fans and pumps.

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Item No.
Fuji FRENIC Mini C2							
115V - Single Phase 50/60 Hz Input							
⅛ hp	0.7 A	200 to 240V	Three	NEMA 1	No	No	**3XA37**
¼ hp	1.4 A	200 to 240V	Three	NEMA 1	No	No	**3XA38**
½ hp	2.5 A	200 to 240V	Three	NEMA 1	No	No	**3XA39**
1 hp	4.2 A	200 to 240V	Three	NEMA 1	No	No	**3XA45**
230V - Single Phase 50/60 Hz Input							
¼ hp	1.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG30**
½ hp	3.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG31**
1 hp	5.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG32**
2 hp	9.2 A	200 to 240V	Three	NEMA 1	No	No	**4RG33**
3 hp	12 A	200 to 240V	Three	NEMA 1	No	No	**5HT20**
230V - Three Phase 50/60 Hz Input							
⅛ hp	0.8 A	200 to 240V	Three	NEMA 1	No	No	**5HT22**
¼ hp	1.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG34**
½ hp	3.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG35**
1 hp	5.5 A	200 to 240V	Three	NEMA 1	No	No	**4RG36**
2 hp	9.2 A	200 to 240V	Three	NEMA 1	No	No	**4RG37**
3 hp	12 A	200 to 240V	Three	NEMA 1	No	No	**4RG38**
5 hp	19.1 A	200 to 240V	Three	NEMA 1	No	No	**4RG39**
7 ½ hp	25 A	200 to 240V	Three	NEMA 1	No	No	**482J39**
10 hp	33 A	200 to 240V	Three	NEMA 1	No	No	**482J40**
15 hp	47 A	200 to 240V	Three	NEMA 1	No	No	**482J41**
20 hp	60 A	200 to 240V	Three	NEMA 1	No	No	**482J42**
460V - Three Phase 50/60 Hz Input							
½ hp	1.8 A	380 to 480V	Three	NEMA 1	No	No	**3XA40**
1 hp	3.1 A	380 to 480V	Three	NEMA 1	No	No	**3XA41**
2 hp	4.3 A	380 to 480V	Three	NEMA 1	No	No	**3XA42**
3 hp	6.3 A	380 to 480V	Three	NEMA 1	No	No	**3XA43**
5 hp	10.5 A	380 to 480V	Three	NEMA 1	No	No	**3XA44**
7 ½ hp	13 A	380 to 480V	Three	NEMA 1	No	No	**482J43**
10 hp	18 A	380 to 480V	Three	NEMA 1	No	No	**482J44**
15 hp	24 A	380 to 480V	Three	NEMA 1	No	No	**482J45**
20 hp	30 A	380 to 480V	Three	NEMA 1	No	No	**482J46**
Fuji FRENIC EcoPAK							
208V AC - Three Phase 60 Hz Input							
2 hp	7.5 A	208V AC	Three	NEMA 1	Yes	Yes	**4UAK8**
3 hp	10.6 A	208V AC	Three	NEMA 1	Yes	Yes	**4UAK9**
5 hp	16.7 A	208V AC	Three	NEMA 1	Yes	Yes	**4UAL1**
7 ½ hp	25 A	208V AC	Three	NEMA 1	Yes	Yes	**4UAL2**
230V - Three Phase 60 Hz Input							
10 hp	31 A	240V AC	Three	NEMA 1	Yes	Yes	**4UAL3**
15 hp	47 A	240V AC	Three	NEMA 1	Yes	Yes	**4UAL4**
20 hp	60 A	240V AC	Three	NEMA 1	Yes	Yes	**4UAL5**
480V AC - Three Phase 60 Hz Input							
2 hp	3.7 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAL6**
3 hp	5 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAL7**
5 hp	7.6 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAL8**
7 ½ hp	11 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAL9**
10 hp	14 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN1**
15 hp	21 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN2**
20 hp	28 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN3**
25 hp	34 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN4**
30 hp	40 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN5**
40 hp	54 A	480V AC	Three	NEMA 1	Yes	Yes	**4UAN6**
Fuji FRENIC Eco							
208V AC - Three Phase 50/60 Hz Input							
1 hp	4.6 A	240V AC	Three	NEMA 1	No	No	**4UAG6**
2 hp	7.5 A	240V AC	Three	NEMA 1	No	No	**4UAG7**
3 hp	10.6 A	240V AC	Three	NEMA 1	No	No	**4UAG8**
5 hp	16.7 A	240V AC	Three	NEMA 1	No	No	**4UAG9**
7 ½ hp	25 A	240V AC	Three	NEMA 1	No	No	**4UAH1**
10 hp	31 A	240V AC	Three	NEMA 1	No	No	**4UAH2**
15 hp	47 A	240V AC	Three	NEMA 1	No	No	**4UAH3**
20 hp	60 A	240V AC	Three	NEMA 1	No	No	**4UAH4**
25 hp	75 A	240V AC	Three	NEMA 1	No	No	**4UAH5**
30 hp	88 A	240V AC	Three	NEMA 1	No	No	**4UAH6**
40 hp	114 A	230V AC	Three	NEMA 1	No	No	**4UAH7**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Item No.
460V AC - Three Phase 50/60 Hz Input							
1 hp	2.5 A	480V AC	Three	NEMA 1	No	No	**4UAH8**
2 hp	3.7 A	480V AC	Three	NEMA 1	No	No	**4UAH9**
3 hp	5.5 A	480V AC	Three	NEMA 1	No	No	**4UAJ1**
5 hp	9 A	480V AC	Three	NEMA 1	No	No	**4UAJ2**
7 ½ hp	12.5 A	480V AC	Three	NEMA 1	No	No	**4UAJ3**
10 hp	16.5 A	480V AC	Three	NEMA 1	No	No	**4UAJ4**
15 hp	23 A	480V AC	Three	NEMA 1	No	No	**4UAJ5**
20 hp	30 A	480V AC	Three	NEMA 1	No	No	**4UAJ6**
25 hp	37 A	480V AC	Three	NEMA 1	No	No	**4UAJ7**
30 hp	44 A	480V AC	Three	NEMA 1	No	No	**4UAJ8**
40 hp	59 A	480V AC	Three	NEMA 1	No	No	**4UAJ9**
50 hp	72 A	480V AC	Three	NEMA 1	No	No	**4UAK1**
60 hp	85 A	480V AC	Three	NEMA 1	No	No	**4UAK2**
75 hp	105 A	480V AC	Three	NEMA 1	No	No	**4UAK3**
100 hp	139 A	480V AC	Three	NEMA 1	No	No	**4UAK4**
125 hp	168 A	480V AC	Three	NEMA 1	No	No	**4UAK5**
150 hp	203 A	480V AC	Three	NEMA 1	No	No	**4UAK6**
200 hp	240 A	480V AC	Three	NEMA 1	No	No	**4UAK7**
Fuji FRENIC Ace							
230V AC - Single Phase 50/60 Hz Input							
⅛ hp	0.8 A	240V AC	Three	NEMA 1	No	No	**482J62**
¼ hp	1.6 A	240V AC	Three	NEMA 1	No	No	**482J63**
½ hp	3 A	240V AC	Three	NEMA 1	No	No	**482J64**
1 hp	5 A	240V AC	Three	NEMA 1	No	No	**482J65**
2 hp	8 A	240V AC	Three	NEMA 1	No	No	**482J66**
3 hp	11 A	240V AC	Three	NEMA 1	No	No	**482J67**
230V AC - Three Phase 50/60 Hz Input							
¼ hp	1.3 A	240V AC	Three	NEMA 1	No	No	**482J49**
½ hp	2 A	240V AC	Three	NEMA 1	No	No	**482J50**
1 hp	3.5 A	240V AC	Three	NEMA 1	No	No	**482J51**
2 hp	6 A	240V AC	Three	NEMA 1	No	No	**482J52**
3 hp	9.6 A	240V AC	Three	NEMA 1	No	No	**482J53**
5 hp	12 A	240V AC	Three	NEMA 1	No	No	**482J54**
7 ½ hp	19.6 A	240V AC	Three	NEMA 1	No	No	**482J55**
10 hp	30 A	240V AC	Three	NEMA 1	No	No	**482J56**
15 hp	40 A	240V AC	Three	NEMA 1	No	No	**482J57**
20 hp	56 A	240V AC	Three	NEMA 1	No	No	**482J58**
25 hp	69 A	240V AC	Three	NEMA 1	No	No	**482J59**
30 hp	88 A	240V AC	Three	NEMA 1	No	No	**482J60**
40 hp	115 A	240V AC	Three	NEMA 1	No	No	**482J61**
460V AC - Three Phase 50/60 Hz Input							
1 hp	1.8 A	240V AC	Three	NEMA 1	No	No	**482J68**
2 hp	3.4 A	240V AC	Three	NEMA 1	No	No	**482J69**
3 hp	5 A	240V AC	Three	NEMA 1	No	No	**482J70**
5 hp	6.3 A	240V AC	Three	NEMA 1	No	No	**482J71**
7 ½ hp	11 A	240V AC	Three	NEMA 1	No	No	**482J72**
10 hp	17.5 A	240V AC	Three	NEMA 1	No	No	**482J73**
15 hp	23 A	240V AC	Three	NEMA 1	No	No	**482J74**
20 hp	31 A	240V AC	Three	NEMA 1	No	No	**482J75**
25 hp	38 A	240V AC	Three	NEMA 1	No	No	**482J76**
30 hp	45 A	240V AC	Three	NEMA 1	No	No	**482J77**
40 hp	60 A	240V AC	Three	NEMA 1	No	No	**482J78**
Fuji FRENIC 5000							
230V AC - Three Phase 50/60 Hz Input G11 Series							
1 hp	5 A	230V AC	Three	NEMA 1	No	No	**5HV37**
2 hp	8 A	230V AC	Three	NEMA 1	No	No	**5HV38**
3 hp	11 A	230V AC	Three	NEMA 1	No	No	**5HV39**
230V AC - Three Phase 50/60 Hz Input P11 Series							
7 ½ hp	22 A	230V AC	Three	NEMA 1	No	No	**5HV41**
15 hp	42 A	230V AC	Three	NEMA 1	No	No	**5HV43**
480V AC - Three Phase 50/60 Hz Input G11 Series							
1 hp	2.5 A	460V AC	Three	NEMA 1	No	No	**5HV44**
2 hp	2.9 A	460V AC	Three	NEMA 1	No	No	**5HV45**
3 hp	4.4 A	460V AC	Three	NEMA 1	No	No	**5HV46**
5 hp	7.2 A	460V AC	Three	NEMA 1	No	No	**5HV47**
480V AC - Three Phase 50/60 Hz Input P11 Series							
10 hp	16.5 A	460V AC	Three	NEMA 1	No	No	**5HV49**

3XA37

4UAK8

4UAJ3

482J61

Fuji Electric Variable Frequency Drive Accessories

Fuji Electric

Compatible with Fuji series VFDs and include components and kits to support remote keypads, enhanced communication, and housing options such as NEMA-rated enclosures.

For Use With Grainger Item Number	Mfr. Model	Item No.
FRENIC-Ace Series		
AC Drive NEMA 1 Kit		
482J49, 482J50, 482J63	NEMA1-02E2-27	**482J79**
482J51	NEMA1-04E2-2	**482J80**
482J52	NEMA1-06E2-2	**482J81**
482J53, 482J54, 482J69, 482J70, 482J71	NEMA1-12E2-24	**482J82**
482J55, 482J67, 482J72	NEMA1-20E2-247	**482J83**
482J56, 482J57, 482J73, 482J74	NEMA1-40E2-24	**482J84**
482J56, 482J57, 482J74	NEMA1-40E2-24	**482J47**
482J58, 482J59, 482J75, 482J76	NEMA1-69E2-24	**482J48**
	NEMA1-69E2-24	**482J85**
FRENIC-Mini Series		
AC Drive DIN Rail Kit		
3XA37, 3XA38, 3XA39, 4RG30, 4RG31, 4RG32, 4RG34, 4RG35, 4RG36, 5HT22	RMA-C_-0.75	**3XA58**
3XA44, 4RG39, 5HT20	RMA-C_-3.7	**3XA60**
4RG37, 4RG38	RMA-C_-2.2	**3XA59**
AC Drive NEMA 1 Kit		
3XA37, 3XA38	NEMA1-C2-105	**3XA56**
3XA39	NEMA1-C2-106	**3XA61**
3XA40	NEMA1-C2-202	**3XA51**
3XA43, 3XA44, 4RG37, 4RG38	NEMA1-C2-201	**3XA49**
3XA45	NEMA1-C2-205	**3XA62**
4RG30, 4RG34, 5HT22	NEMA1-C2-101	**3XA46**
4RG31, 4RG35	NEMA1-C2-102	**3XA47**
4RG32	NEMA1-C2-104	**3XA54**
4RG33	NEMA1-C2-204	**3XA55**
4RG36	NEMA1-C2-103	**3XA48**
4RG38, 5HT20	NEMA1-C2-301	**3XA50**
—	NEMA1-0.75C1-4	**3XA52**

3XA49

Altivar ATV12
5WJK2

Altivar ATV212
6MVC4

S-Flex 212
14H032

Altivar ATV320
443L57

Altivar ATV340
55WR91

Altivar ATV600
53RF78

Schneider Variable Frequency Drives

Schneider Electric

Altivar ATV12 are compact and fit into limited space. Baseplate-mounted models dissipate heat into the machine frame. Heat-sink-mounted models dissipate heat through a heat exchanger. **Altivar ATV212** OEM drives are customizable to match the configuration of the original manufacturer and ensure consistent performance and proper installation. **S-Flex 212** are enclosed drives that are housed with bypass configuration options to minimize motor downtime. Preassembled and prewired OEM drives are customizable to match the configuration of the original manufacturer and ensure consistent performance and proper installation. **Altivar ATV320** have two formats: compact and book. Compact drives install into electrical cabinets or mount directly on the machine frame. Book drives have a slim profile and mount side by side with other devices to save space. OEM drives are customizable to match the configuration of the original manufacturer and ensure consistent performance and proper installation. **Altivar ATV340** come in two formats: modular and ethernet. Modular drives support commonly used communication protocols, while ethernet versions support multi-ethernet protocols. Drives are customizable and match the configuration of the original manufacturer to ensure consistent performance and proper installation. **Altivar ATV600** are enclosed drives that are housed with monitoring, bypass, and control options to minimize motor downtime.

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Style	Item No.
Schneider Altivar ATV12								
100 to 120V AC - Single Phase 50/60 Hz Input								
¼ hp	1.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**5WJJ5**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJJ8**
1 hp	4.2 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK2**
200 to 240V AC - Single Phase 50/60 Hz Input								
¼ hp	1.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM69**
¼ hp	1.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**5WJJ6**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**55WM70**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WP16**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJJ9**
¾ hp	3.5 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**55WM71**
¾ hp	3.5 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM76**
¾ hp	3.5 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK1**
1 hp	4.2 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**55WM72**
1 hp	4.2 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK3**
2 hp	7.5 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**55WM73**
2 hp	7.5 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK5**
3 hp	10 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**55WM74**
3 hp	10 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK7**
200 to 240V AC - Three Phase 50/60 Hz Input								
¼ hp	1.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**5WJJ7**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM75**
11/20 hp	2.4 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK0**
1 hp	4.2 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK4**
2 hp	7.5 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM77**
2 hp	7.5 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK6**
3 hp	10 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM78**
3 hp	12.2 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM79**
3 hp	10 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK8**
4 hp	12.2 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJK9**
5 hp	16.7 A	200 to 240V AC	Three	NEMA 1	No	No	Base Plate	**55WM80**
5 hp	16.7 A	200 to 240V AC	Three	NEMA 1	No	No	Heat Sink	**5WJL0**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	With Line Contactor	With Bypass	NEMA 1 Item No.	NEMA 12 Item No.
Schneider Altivar ATV212							
200 to 240V AC - Three Phase 50/60 Hz Input							
1 hp	4.6 A	170 to 264V AC	Three	No	No	**6MUZ6**	—
2 hp	7.5 A	170 to 264V AC	Three	No	No	**6MUZ7**	—
3 hp	10.6 A	170 to 264V AC	Three	No	No	**6MUZ8**	—
4 hp	13.7 A	170 to 264V AC	Three	No	No	**6MUZ9**	—
5 hp	17.5 A	170 to 264V AC	Three	No	No	**6MVA0**	—
7 ½ hp	24.2 A	170 to 264V AC	Three	No	No	**6MVA1**	—
10 hp	32 A	170 to 264V AC	Three	No	No	**6MVA2**	—
15 hp	46.2 A	170 to 264V AC	Three	No	No	**6MVA3**	—
20 hp	61 A	170 to 264V AC	Three	No	No	**6MVA4**	—
25 hp	74.8 A	170 to 264V AC	Three	No	No	**6MVA5**	—
30 hp	88 A	170 to 264V AC	Three	No	No	**6MVA6**	—
40 hp	117 A	170 to 264V AC	Three	No	No	**6MVA7**	—
380 to 480V AC - Three Phase 50/60 Hz Input							
1 hp	2.2 A	323 to 528V AC	Three	No	No	**6MVA8**	**13E168**
2 hp	3.7 A	323 to 528V AC	Three	No	No	**6MVA9**	**13E169**
3 hp	5.1 A	323 to 528V AC	Three	No	No	**6MVC0**	**13E170**
4 hp	7.2 A	323 to 528V AC	Three	No	No	**6MVC1**	**13E171**
5 hp	9.1 A	323 to 528V AC	Three	No	No	**6MVC2**	**13E172**
7 ½ hp	12 A	323 to 528V AC	Three	No	No	**6MVC3**	**13E173**
10 hp	16 A	323 to 528V AC	Three	No	No	**6MVC4**	**13E174**
15 hp	22.5 A	323 to 528V AC	Three	No	No	**6MVC5**	**13E175**
20 hp	30.5 A	323 to 528V AC	Three	No	No	**6MVC6**	**13E176**
25 hp	37 A	323 to 528V AC	Three	No	No	**6MVC7**	**13E177**
30 hp	43.5 A	323 to 528V AC	Three	No	No	**6MVC8**	**13E178**
40 hp	58.5 A	323 to 528V AC	Three	No	No	**6MVC9**	**13E179**
50 hp	79 A	323 to 528V AC	Three	No	No	**6MVD0**	**48R272**
60 hp	94 A	323 to 528V AC	Three	No	No	**6MVD1**	**48R273**
75 hp	116 A	323 to 528V AC	Three	No	No	**6MVD2**	**48R274**
100 hp	160 A	323 to 528V AC	Three	No	No	**6MVD3**	**48R275**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	No Line Contactor: With Bypass Item No.	No Line Contactor: No Bypass Item No.	With Line Contactor: With Bypass Item No.
Schneider S-Flex 212							
208V AC - Three Phase 50/60 Hz Input							
1 hp	4.8 A	208V AC	Three	NEMA 1	**14H043**	**14H032**	**14H054**
2 hp	7.8 A	208V AC	Three	NEMA 1	**14H044**	**14H033**	**14H055**
3 hp	11 A	208V AC	Three	NEMA 1	**14H045**	**14H034**	**14H056**
5 hp	17.5 A	208V AC	Three	NEMA 1	**14H046**	**14H035**	**14H057**
7 ½ hp	25.3 A	208V AC	Three	NEMA 1	—	**14H036**	**14H058**
7 ½ hp	25.5 A	208V AC	Three	NEMA 1	**14H047**	—	—
10 hp	32.2 A	208V AC	Three	NEMA 1	**14H048**	**14H037**	**14H059**
15 hp	48.3 A	208V AC	Three	NEMA 1	**14H049**	**14H038**	**14H060**
20 hp	62.1 A	208V AC	Three	NEMA 1	**14H050**	**14H039**	**14H061**
25 hp	78.2 A	208V AC	Three	NEMA 1	**14H051**	**14H040**	**14H062**
30 hp	92 A	208V AC	Three	NEMA 1	**14H052**	**14H041**	**14H063**
40 hp	120 A	208V AC	Three	NEMA 1	**14H053**	**14H042**	**14H064**
460V AC - Three Phase 50/60 Hz Input							
1 hp	2.1 A	460V AC	Three	NEMA 1	**14H076**	**14H065**	**14H087**
2 hp	3.4 A	460V AC	Three	NEMA 1	**14H077**	**14H066**	**14H088**
3 hp	4.8 A	460V AC	Three	NEMA 1	**14H078**	**14H067**	**14H089**
5 hp	7.6 A	460V AC	Three	NEMA 1	**14H079**	**14H068**	**14H090**
7 ½ hp	11 A	460V AC	Three	NEMA 1	**14H080**	**14H069**	**14H091**
10 hp	14 A	460V AC	Three	NEMA 1	**14H081**	**14H070**	**14H092**
15 hp	21 A	460V AC	Three	NEMA 1	**14H082**	**14H071**	**14H093**
20 hp	27 A	460V AC	Three	NEMA 1	**14H083**	**14H072**	**14H094**
25 hp	34 A	460V AC	Three	NEMA 1	**14H084**	**14H073**	**14H095**
30 hp	40 A	460V AC	Three	NEMA 1	**14H085**	**14H074**	**14H096**
40 hp	52 A	460V AC	Three	NEMA 1	**14H086**	**14H075**	**14H097**
50 hp	65 A	460V AC	Three	NEMA 1	—	—	**48R259**
60 hp	77 A	460V AC	Three	NEMA 1	—	—	**48R260**
75 hp	96 A	460V AC	Three	NEMA 1	—	—	**48R261**
100 hp	124 A	460V AC	Three	NEMA 1	—	—	**48R262**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Compact Item No.	Book Item No.
Schneider Altivar ATV320								
240V AC - Single Phase 50/60 Hz Input								
¼ hp	1.5 A	240V AC	Three	NEMA 1	No	No	**443L19**	**443L18**
½ hp	3.3 A	240V AC	Single	NEMA 1	No	No	**443L22**	**443L21**
¾ hp	3.7 A	240V AC	Three	NEMA 1	No	No	**443L27**	**443L26**
1 hp	4.8 A	240V AC	Single	NEMA 1	No	No	**443L32**	**443L31**
1 ½ hp	6.9 A	240V AC	Single	NEMA 1	No	No	**443L38**	**443L37**
2 hp	8 A	240V AC	Single	NEMA 1	No	No	**443L43**	**443L42**
3 hp	11 A	240V AC	Single	NEMA 1	No	No	**443L49**	**443L48**
240V AC - Three Phase 50/60 Hz Input								
¼ hp	1.5 A	240V AC	Three	NEMA 1	No	No	**443L20**	—
½ hp	3.3 A	240V AC	Three	NEMA 1	No	No	**443L23**	—
¾ hp	3.7 A	240V AC	Three	NEMA 1	No	No	**443L28**	—
1 hp	4.8 A	240V AC	Three	NEMA 1	No	No	**443L33**	—
1 ½ hp	6.9 A	240V AC	Three	NEMA 1	No	No	**443L39**	—
2 hp	8 A	240V AC	Three	NEMA 1	No	No	**443L44**	—
3 hp	11 A	240V AC	Three	NEMA 1	No	No	**443L50**	—
3 hp	13.7 A	240V AC	Three	NEMA 1	No	No	**443L54**	—
5 hp	17.5 A	240V AC	Three	NEMA 1	No	No	**443L57**	—
7 ½ hp	27.5 A	240V AC	Three	NEMA 1	No	No	**443L61**	—
10 hp	33 A	240V AC	Three	NEMA 1	No	No	**443L64**	—
15 hp	54 A	240V AC	Three	NEMA 1	No	No	**443L12**	—
20 hp	66 A	240V AC	Three	NEMA 1	No	No	**443L15**	—
500V AC - Three Phase 50/60 Hz Input								
½ hp	1.5 A	500V AC	Three	NEMA 1	No	No	**443L25**	**443L24**
¾ hp	1.9 A	500V AC	Three	NEMA 1	No	No	**443L30**	**443L29**
1 hp	2.3 A	500V AC	Three	NEMA 1	No	No	—	**443L34**
1 ½ hp	3 A	500V AC	Three	NEMA 1	No	No	**443L41**	**443L40**
2 hp	4.1 A	500V AC	Three	NEMA 1	No	No	**443L46**	**443L45**
3 hp	5.5 A	500V AC	Three	NEMA 1	No	No	**443L52**	**443L51**
4 hp	7.1 A	500V AC	Three	NEMA 1	No	No	**443L56**	**443L55**

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Schneider Variable Frequency Drives

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Compact Item No.	Book Item No.
5 hp	9.5 A	500V AC	Three	NEMA 1	No	No	443L59	443L58
7 ½ hp	14.3 A	500V AC	Three	NEMA 1	No	No	—	443L62
10 hp	17 A	500V AC	Three	NEMA 1	No	No	—	443L65
15 hp	27.7 A	500V AC	Three	NEMA 1	No	No	—	443L13
20 hp	33 A	500V AC	Three	NEMA 1	No	No	—	443L16
600V AC - Three Phase 50/60 Hz Input								
1 hp	1.7 A	600V AC	Three	NEMA 1	No	No	443L36	—
2 hp	2.7 A	600V AC	Three	NEMA 1	No	No	443L47	—
3 hp	3.9 A	600V AC	Three	NEMA 1	No	No	443L53	—
5 hp	6.1 A	600V AC	Three	NEMA 1	No	No	443L60	—
7 ½ hp	9 A	600V AC	Three	NEMA 1	No	No	443L63	—
10 hp	11 A	600V AC	Three	NEMA 1	No	No	443L66	—
15 hp	17 A	500V AC	Three	NEMA 1	No	No	443L14	—
20 hp	22 A	500V AC	Three	NEMA 1	No	No	443L17	—

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Modular Item No.	Ethernet Item No.
Schneider Altivar ATV340								
480V AC - Three Phase 50/60 Hz Input								
1 ½ hp	2.8 A	480V AC	Three	NEMA 1	Yes	No	55WR85	55WR86
3 hp	5.6 A	480V AC	Three	NEMA 1	Yes	No	55WR87	55WR88
3 hp	7.2 A	480V AC	Three	NEMA 1	Yes	No	55WR89	55WR90
5 hp	9.3 A	480V AC	Three	NEMA 1	Yes	No	55WR91	55WR92
7 hp	12.7 A	480V AC	Three	NEMA 1	Yes	No	55WR93	55WR94
10 hp	16.5 A	480V AC	Three	NEMA 1	Yes	No	55WR95	55WR96
15 hp	24 A	480V AC	Three	NEMA 1	Yes	No	55WR97	55WR98
20 hp	32 A	480V AC	Three	NEMA 1	Yes	No	55WR72	55WR73
25 hp	39 A	480V AC	Three	NEMA 1	Yes	No	55WR74	55WR75
30 hp	46 A	480V AC	Three	NEMA 1	Yes	No	55WR76	55WR77
40 hp	62 A	480V AC	Three	NEMA 1	Yes	No	55WR78	55WR79
50 hp	74.5 A	480V AC	Three	NEMA 1	Yes	No	—	55WR80
60 hp	88 A	480V AC	Three	NEMA 1	Yes	No	—	55WR81
75 hp	106 A	480V AC	Three	NEMA 1	Yes	No	—	55WR82
100 hp	145 A	480V AC	Three	NEMA 1	Yes	No	—	55WR83
125 hp	173 A	480V AC	Three	NEMA 1	Yes	No	—	55WR84

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Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Item No.
Schneider Altivar ATV600							
240V AC - Three Phase 50/60 Hz Input							
1 hp	4.6 A	240V AC	Three	NEMA 1	Yes	No	53RF78
2 hp	8 A	240V AC	Three	NEMA 1	Yes	No	53RF80
3 hp	11.2 A	240V AC	Three	NEMA 1	Yes	No	53RF82
4 hp	13.7 A	240V AC	Three	NEMA 1	Yes	No	53RF84
5 hp	18.7 A	240V AC	Three	NEMA 1	No	No	53RF86
7 ½ hp	25.4 A	240V AC	Three	NEMA 1	No	No	53RF88
10 hp	32.7 A	240V AC	Three	NEMA 1	No	No	53RF90
15 hp	46.8 A	240V AC	Three	NEMA 1	Yes	No	53RF62
20 hp	63.4 A	240V AC	Three	NEMA 1	Yes	No	53RF64
25 hp	78.4 A	240V AC	Three	NEMA 1	Yes	No	53RF66
30 hp	92.6 A	240V AC	Three	NEMA 1	Yes	No	53RF68
40 hp	123 A	240V AC	Three	NEMA 1	Yes	No	53RF70
50 hp	149 A	240V AC	Three	NEMA 1	Yes	No	53RF72
60 hp	176 A	240V AC	Three	NEMA 1	Yes	No	53RF74
75 hp	211 A	240V AC	Three	NEMA 1	Yes	No	55WT01
480V AC - Three Phase 50/60 Hz Input							
1 hp	2.2 A	480V AC	Three	NEMA 1	Yes	No	53RF79
2 hp	4 A	480V AC	Three	NEMA 1	Yes	No	53RF81
3 hp	5.6 A	480V AC	Three	NEMA 1	Yes	No	53RF83
4 hp	7.2 A	480V AC	Three	NEMA 1	Yes	No	53RF85
5 hp	9.3 A	480V AC	Three	NEMA 1	Yes	No	53RF87
7 ½ hp	12.7 A	480V AC	Three	NEMA 1	Yes	No	53RF89
10 hp	16.5 A	480V AC	Three	NEMA 1	Yes	No	53RF91
15 hp	23.5 A	480V AC	Three	NEMA 1	Yes	No	53RF63
20 hp	31.7 A	480V AC	Three	NEMA 1	Yes	No	53RF65
25 hp	39.2 A	480V AC	Three	NEMA 1	Yes	No	53RF67
30 hp	46.3 A	480V AC	Three	NEMA 1	Yes	No	53RF69
40 hp	61.5 A	480V AC	Three	NEMA 1	Yes	No	53RF71
50 hp	74.5 A	480V AC	Three	NEMA 1	Yes	No	53RF73
60 hp	88 A	480V AC	Three	NEMA 1	Yes	No	53RF75
75 hp	106 A	480V AC	Three	NEMA 1	Yes	No	53RF76
100 hp	145 A	480V AC	Three	NEMA 1	Yes	No	53RF77
125 hp	173 A	480V AC	Three	NEMA 1	Yes	No	55WP20
150 hp	211 A	480V AC	Three	NEMA 1	Yes	No	55WP17
174 hp	250 A	480V AC	Three	NEMA 1	Yes	No	55WR99
250 hp	302 A	480V AC	Three	NEMA 1	Yes	No	55WP18
500 hp	616 A	480V AC	Three	NEMA 1	Yes	No	55WP19

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Schneider Variable Frequency Drive Accessories

Compatible with Schneider series VFDs and include components and kits to support remote keypads, enhanced communication, and additional connection options.

Item	For Use With	Mfr. Model	Item No.
Motor Drive Connecting Cables and Adapters			
Cable	All ATV Drives	VW3CANCARR03	48R287
	All ATV Drives	VW3CANCARR1	48R288
CANopen Communication Card	Altivar 32, Altivar Machine ATV320, ATV340, Altivar Process ATV600, ATV900, Lexium 32	VW3A3618	443L75
	Altivar Process Modular	VW3A3628	48R292
CANopen Daisy Chain CommunicationCard	Altivar 32, Altivar Machine ATV320, ATV340, Altivar Process ATV600, ATV900, Lexium 32	VW3A3608	443L73
Connection Cable	Altivar and Altistart	TCSMCNAM3M002P	5WJL1
Control Panel CPU Board Motherboard ATS48 Q/Y	Altistart	VX4G481	55WY53
DC Bus Cable	ATV320B, ATV320C @ 0.18 to 2.2kW, 200 To 240V, 1-Phase, ATV320C @ 0.37 To 4kW, 380 To 500V, ATV320C @ 0.75 To 15kW, 525 to 600V, 3-Phase, ATV340 @ 0.75 To 7.5kW	VW3M7102R150	443L92
DC Bus Connector Kit	Altivar Machine ATV320, Lexium 28, 32	VW3M2207	443L90
DC Bus Cord Set	ATV320B @ 0.18 To 2.2kW, 200 to 240V, ATV320B @ 0.37 To 4kW, 380 to 500V, ATV340 @ 0.75 To 7.5kW	VW3M7101R01	443L91
DeviceNet Communication Module	Altivar Process Modular	VW3A3609	48R291
Dual Port Module	Altivar Process Modular	VW3A3720	55WT84
	Altivar Process Modular	VW3A3721	55WT85
EtherCAT Communication Module	Altivar 32, Altivar Machine ATV320, ATV340, Altivar Process ATV900, Lexium 32	VW3A3601	443L71
Ethernet Communication Card	Altivar 32, Altivar Machine ATV320	VW3A3619	443L76
Flashing Cordset	Multiloader	VW3A8126	5WJN1
Flashing Cord Set	Variable Speed Drive	VW3A8122	55WJ68

55WT81

Item	For Use With	Mfr. Model	Item No.
Graphic Term Adapter	Altivar 212, 312, 61, 71	VW3A1105	13E222
Modbus TCP and EtherNet/IP NetworkCard	Altivar 32, Altivar Machine ATV320, Lexium 32	VW3A3616	443L74
Multi Loader Tool	ATV12, 312, 61, 71 Drives	VW3A8121	5WJN0
PC Serial Port Connection Kit	CANopen, TeSys T, Twido	VW3A8106	6UKW8
Profibus DP V1 Communication Card	Altivar 32, Altivar Easy 610, Altivar Machine ATV320, ATV340, Altivar Process ATV600, ATV900, Lexium 32	VW3A3607	443L72
ProfiNet Communication Card	Altivar 32, Altivar Machine ATV320, ATV340, Altivar Process ATV600, ATV900	VW3A3627	443L78
Remote Cable	Altivar 212, 312, 61, 71	VW3A1104R10	13E223
	Altivar 212, 312, 61, 71	VW3A1104R30	13E224
	Altivar 212, 312, 61, 71	VW3A1104R50	13E225
Simple Loader Tool	ATV12, 312, 61, 71 Drives	VW3A8120	5WJL9
Speed Monitoring Card	Altivar 32, Altivar Machine ATV320	VW3A3620	443L77

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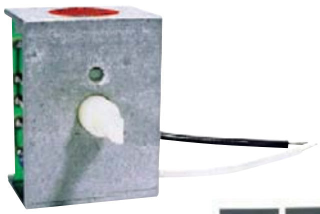
Schneider Variable Frequency Drive Accessories

Schneider Electric

Item	For Use With	Mfr. Model	Item No.
Motor Drive EMC Filters			
EMC Filter	ATV312, ATV31C	VW3A31404	**48R280**
	ATV312, ATV31C	VW3A31406	**48R285**
	ATV312, ATV31C	VW3A31407	**48R286**
	ATV312H018M3; ATV312H037M3; ATV312H055M3; ATV312H075M3; LXM05AD10M3X; LXM05BD10M3X; Variable speed drive ATV320...C motor	VW3A31402	**55WN59**
	ATV312HU22M2; ATV31CU22M2; LXM05AD28F1; LXM05AD28M2; LXM05BD28F1; LXM05BD28M2; LXM05CD28M2; Variable speed drive ATV320...C motor; Variable speed drive ATV320...W/ATV320...WS motor	VW3A31405	**55WN60**
	ATV212HD11M3X; ATV212HD15M3X; ATV212HD18M3X; ATV312HD11M3; ATV312HD15M3; Variable speed drive ATV320...C motor; Variable speed drive ATV320...C motor	VW3A31408	**55WN61**
	ATV212HD15N4; ATV212HD18N4; ATV31CD11N4; ATV31CD15N4; ATV312HD11N4; ATV312HD15N4	VW3A31409	**55WN62**
	Servo Drive LXM23 Motor, Variable Speed Drive ATV320.C Motor, Variable Speed Drive ATV320.W Motor, Variable Speed Drive ATV320.WS Motor	VW3A31401	**55WP31**
	Servo Drive LXM23 Motor, ATV312HU11M2, ATV312HU15M2, ATV31CU11M2, ATV31CU15M2, LXM05AD17F1, LXM05AD17M2, LXM05BD17F1, LXM05BD17M2, LXM05CD17M2, Variable Speed Drive ATV320..C Motor	VW3A31403	**55WZ19**
	ATV12 Drives H018F1 to H037F1, ATV12 Drives H018M2 to H075M2	VW3A4416	**5WJL4**
	ATV12 Drive H075F1, ATV12 Drives HU15M2, to HU22M2	VW3A4417	**5WJL5**
	ATV12 Drives H018M3 to H075M3	VW3A4418	**5WJL6**
	ATV12 Drive HU15M3, ATV12 Drive HU22M3	VW3A4419	**5WJL7**
Motor Drive Input/Output Cards			
Communication Adaptor Card	Altivar Machine ATV320	VW3A3600	**443L70**
Motor Drive Keypad Mounting and Protection			
Graphic Keypad Door Mounting Kit	Altivar	VW3A1112	**443L69**
Keypad Door Mounting Kit	Altivar	VW3A1114	**55WT82**
Remote Mount Kit Door	Altivar	VW3A1103	**13E221**
Motor Drive Keypads			
Display Terminal	I/O, Motor, RJ45 port	VW3A1113	**55WT81**
Graphic Keypad Terminal	Altivar Machine ATV340, Altivar Process ATV600, ATV900	VW3A1111	**443L68**
LCD Graphic Keypad	312, 61, 71, Altivar 212	VW3A1101	**13E219**
Remote Keypad	Altistart 22	VW3G22101	**13E226**
	Altistart 22	VW3G22102	**13E227**
Remote Key Pad	ATV12 Drives	VW3A1006	**5WJL2**
	ATV12 Drives	VW3A1007	**5WJL3**
Remote Key Pad Kit	ATV31H037M2, ATV31H075M2, ATV31H075N4, ATV31HD11N4, ATV31HD15N4, ATV31HU15M2, ATV31HU15N4, ATV31HU22M2, ATV31HU22N4, ATV31HU30M3X, ATV31HU40M3X, ATV31HU40N4, ATV31HU55M3X, ATV31HU55N4, ATV31HU75M3X, ATV31HU75N4	VW3A31101	**4RA62**

Item	For Use With	Mfr. Model	Item No.
Motor Drive Voltage Converters			
Voltage Converter	ATV12H018F1, ATV12H018M2, ATV12H018M3, ATV12H037F1, ATV12H037M2, ATV12H037M3, ATV12H055M2, ATV12H075F1, ATV12H075M2, ATV12H075M3, ATV12HU15M2, ATV12HU15M3, ATV12HU22M2, ATV12HU22M3, ATV12HU30M3, ATV12HU40M3, ATV12P037F1, ATV12P037M2, ATV12P037M3, ATV12P055M2, ATV12P075M2, ATV12P075M3, ATV12PU15M3, ATV12PU22M3, ATV12PU30M3, ATV12PU40M3	VW3A9317	**5WJN2**
Soft Start Accessories			
Adaptor Plate	Variable Speed Drive ATV320B @ 0.18 to 2.20kW, 200 to 240V, single-phase, ATV320B @ 0.37 to 4.00kW, 380 to 500V, three-phase, ATV32 @ 0.18 to 2.20kW, 200 to 240V, single-phase, ATV32 @ 0.37 to 4.00kW, 380 to 500V, three-phase	VW3A9920	**443L88**
Drive Flush Mounting Kit	Altivar Variable Speed Drive ATV630, Altivar Variable Speed Drive ATV930, Spacial S3D Enclosure 15.75 in (400 mm) x 11.81 in (300 mm), Spacial SF and SM Enclosures 15.75 in (400 mm) x 11.81 in (300 mm)	NSYPTDS1	**55WT05**
	Altivar Variable Speed Drive ATV630, Altivar Variable Speed Drive ATV930, Spacial S3D Enclosure 19.69 in (500 mm) x 11.81 in (300 mm), Spacial SF and SM Enclosures 19.69 in (500 mm) x 11.81 in (300 mm)	NSYPTDS2	**55WT06**
	Altivar Variable Speed Drive ATV630, Altivar Variable Speed Drive ATV930, Spacial S3D Enclosure 23.62 in (600 mm) x 11.81 in (300 mm), Spacial SF and SM Enclosures 23.62 in (600 mm) x 11.81 in (300 mm)	NSYPTDS3	**55WT07**
	Altivar Variable Speed Drive ATV340, Altivar Variable Speed Drive ATV630, Altivar Variable Speed Drive ATV930, Spacial SF and SM Enclosures	NSYPTDS4	**55WT08**
	Altivar Variable Speed Drive ATV340, Altivar Variable Speed Drive ATV630, Altivar Variable Speed Drive ATV930, Spacial SF and SM Enclosures	NSYPTDS5	**55WT09**
EMC Conformity Kit	ATV12 Drives H018F1, H037F1, H018M2 to H075M2, H018M3 to H075M3	VW3A9523	**5WJN3**
	ATV12 Drives H075F1, HU15M2, HU22M2, HU15M3, HU22M3	VW3A9524	**5WJN4**
Mounting DIN Rail Kit	Mfr. No. ATV31HU15M2, ATV31H075N4, ATV31HU15N4	VW3A31852	**4RA61**
Mounting Plate	ATV12 Drives H018F1, H037F1, H018M2 to H075M2, H018M3 to H075M3	VW3A9804	**5WJN6**
	ATV12 Drives H075F1, HU15M2, HU22M2, HU15M3, HU22M3	VW3A9805	**5WJN7**
Variable Frequency Drive Accessories			
Graphic Term Adapter	Altivar 212, 312, 61, 71	VW3A1105	**28J659**
Junction Box	All ATV Drives	VW3CANTAP2	**48R282**
LCD Graphic Keypad	Altivar 212, 312, 61, 71	VW3A1101	**28J654**
LCD Keypad Remote Mounting Kit	Altivar 212, 312, 61, 71	VW3A1102	**28J655**
Remote LCD Keypad Cable	Altivar 212, 312, 61, 71	VW3A1104R10	**28J657**
	Altivar 212, 312, 61, 71	VW3A1104R30	**28J658**
Remote Mount Kit Door	Altivar 212, 312, 61, 71	VW3A1103	**28J656**



5JJ60

5JPF3

Adjustable AC Voltage Supplies

DART CONTROLS

Operable on 60/50 Hz at ±10% rated line voltage. For universal, shaded pole, and PSC (permanent split capacitor) 1-phase AC motors. Suitable for use in fans, blowers, pumps, vibratory feeders, and heating and lighting applications.

Note: Check with motor manufacturer before using. Not for use with split-phase or capacitor-start motors.

CHASSIS

Supplied with speed pot, knob, and dial plate.

NEMA 1

Feature rugged housing, power On/Off switch, power indicator lamp, front-access fuse protection, and input and output cords and plugs.

120VAC

Include a standard male wall plug with 18" cord and female output connector integral to housing.

240VAC

Include 6-ft. input and output cords. Cord leads are prepped for wiring to suitable connector.

Description	HP	Input Voltage	Max. Amps	Voltage Output	W (in.)	L (in.)	D (in.)	Mfr. Model	Item No.
Chassis	¼ hp	120 V AC	2.5 A	0 to 120V AC	1 ½ in	2 in	13⁄32 in	AC03-05S	**5JJ60**
NEMA 1	1 hp	120 V AC	10 A	0 to 120V AC	4 in	5 53/100 in	3 ⅘ in	55AC10E	**5JPF3**
NEMA 1	1 ½ hp	120 V AC	15 A	0 to 120V AC	4 in	5 53/100 in	3 ⅘ in	55AC15E	**5JPF4**
NEMA 1	2 hp	240 V AC	10.0 A	0 to 240V AC	4 in	5 53/100 in	3 ⅘ in	57AC10E	**5JPF5**
NEMA 1	2 ½ hp	240 V AC	15.0 A	0 to 240V AC	4 in	5 53/100 in	3 ⅘ in	57AC15E	**5JPF6**

PowerXL DG1 40HY76

PowerXL DC1 20RA39

SVX 32WN92

H-Max 32WP26

H-Max IntelliPass & IntelliDisconnect 32WP52

Eaton Variable Frequency Drives

PowerXL DG1 are designed for more demanding general purpose industrial applications such as wastewater treatment and machinery. **PowerXL DC1** are customizable to match the configuration of the original manufacturers and ensure consistent performance and proper installation. More compact than the DA1 and DG1 drives. **PowerXL DA1** are customizable to match the configuration of the original manufacturers and ensure consistent performance and proper installation. **SVX** enclosed drives are housed with monitoring, bypass, and control options to minimize motor downtime. Designed for multiple motor drive systems and high-speed industrial applications. **H-Max** enclosed drives are housed with monitoring, bypass, and control options to minimize motor downtime. Designed for fans, pumps, and fluid-control processes in HVAC. **H-Max Intellipass and IntelliDisconnect** enclosed drives are housed with monitoring, bypass, and control options to minimize motor downtime. Used in demanding fan, pump, and fluid-control processes in HVAC.

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Item No.
Eaton PowerXL DG1							
240V AC - Three Phase 50/60 Hz Input							
1 hp	4.8 A	240V AC	Three	NEMA 1	No	No	**40HY82**
2 hp	7.8 A	240V AC	Three	NEMA 1	No	No	**40HZ35**
3 hp	11 A	240V AC	Three	NEMA 1	No	No	**40HY86**
5 hp	17.5 A	240V AC	Three	NEMA 1	No	No	**40HY83**
7 ½ hp	25 A	240V AC	Three	NEMA 1	No	No	**40HZ29**
10 hp	31 A	240V AC	Three	NEMA 1	No	No	**40HZ12**
15 hp	48 A	240V AC	Three	NEMA 1	No	No	**40HZ30**
20 hp	61 A	240V AC	Three	NEMA 1	No	No	**40HZ25**
30 hp	88 A	240V AC	Three	NEMA 1	No	No	**40HY99**
40 hp	114 A	240V AC	Three	NEMA 1	No	No	**40HZ15**
50 hp	143 A	240V AC	Three	NEMA 1	No	No	**40HY91**
480V AC - Three Phase 50/60 Hz Input							
1 ½ hp	3.3 A	480V AC	Three	NEMA 1	No	No	**40HY81**
1 hp	2.2 A	480V AC	Three	NEMA 1	No	No	**40HZ08**
2 hp	4.3 A	480V AC	Three	NEMA 1	No	No	**40HY84**
3 hp	5.6 A	480V AC	Three	NEMA 1	No	No	**40HZ18**
5 hp	7.6 A	480V AC	Three	NEMA 1	No	No	**40HY75**
7 ½ hp	12 A	480V AC	Three	NEMA 1	No	No	**40HY76**
10 hp	16 A	480V AC	Three	NEMA 1	No	No	**40HZ21**
15 hp	23 A	480V AC	Three	NEMA 1	No	No	**40HY95**
20 hp	61 A	480V AC	Three	NEMA 1	No	No	**40HZ04**
20 hp	31 A	480V AC	Three	NEMA 1	No	No	**40HZ33**
25 hp	38 A	480V AC	Three	NEMA 1	No	No	**40HZ02**
30 hp	46 A	480V AC	Three	NEMA 1	No	No	**40HZ01**
50 hp	72 A	480V AC	Three	NEMA 1	No	No	**40HY92**
60 hp	87 A	480V AC	Three	NEMA 1	No	No	**40HZ23**
100 hp	140 A	480V AC	Three	NEMA 1	No	No	**40HZ07**
Eaton PowerXL DC1							
115V AC - Single Phase 50/60 Hz Input							
½ hp	7 A	115V AC	Single	NEMA 0	No	No	**20RA39**
½ hp	2.3 A	230V AC	Three	NEMA 0	No	No	**20RA44**
¾ hp	10.5 A	115V AC	Single	NEMA 0	No	No	**20RA40**
1 hp	4.3 A	230V AC	Three	NEMA 0	No	No	**20RA45**
1 ½ hp	5.8 A	230V AC	Three	NEMA 0	No	No	**20RA46**
240V AC - Single Phase 50/60 Hz Input							
½ hp	4.3 A	240V AC	Single	NEMA 0	No	No	**20RA41**
½ hp	2.3 A	240V AC	Three	NEMA 0	No	No	**20RA61**
1 hp	7 A	240V AC	Single	NEMA 0	No	No	**20RA42**
1 ½ hp	10.5 A	240V AC	Single	NEMA 0	No	No	**20RA43**
1 hp	4.3 A	240V AC	Three	NEMA 0	No	No	**20RA62**
2 hp	7 A	240V AC	Three	NEMA 0	No	No	**20RA63**
2 hp	7 A	240V AC	Three	NEMA 0	No	No	**20RA64**
3 hp	10.5 A	240V AC	Three	NEMA 0	No	No	**20RA65**
5 hp	15 A	240V AC	Three	NEMA 0	No	No	**20RA66**
240V AC - Three Phase 50/60 Hz Input							
½ hp	2.3 A	240V AC	Three	NEMA 0	No	No	**20RA47**
1 hp	4.3 A	240V AC	Three	NEMA 0	No	No	**20RA48**
1 ½ hp	10.5 A	240V AC	Three	NEMA 0	No	No	**20RA51**
2 hp	7 A	240V AC	Three	NEMA 0	No	No	**20RA49**
5 hp	18 A	240V AC	Three	NEMA 0	No	No	**20RA52**
480V AC - Three Phase 50/60 Hz Input							
1 hp	2.2 A	480V AC	Three	NEMA 0	No	No	**20RA53**
2 hp	4.1 A	480V AC	Three	NEMA 0	No	No	**20RA54**
2 hp	4.1 A	480V AC	Three	NEMA 0	No	No	**20RA55**
2 hp	14 A	480V AC	Three	NEMA 0	No	No	**20RA58**
3 hp	5.8 A	480V AC	Three	NEMA 0	No	No	**20RA56**
5 hp	9.5 A	480V AC	Three	NEMA 0	No	No	**20RA57**
10 hp	18 A	480V AC	Three	NEMA 0	No	No	**20RA59**
15 hp	24 A	480V AC	Three	NEMA 0	No	No	**20RA60**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	With Line Contactor	With Bypass	NEMA 1 Item No.	NEMA 12 Item No.
Eaton SVX							
240V AC - Three Phase 50/60 Hz Input							
1 hp	4.8 A	240V AC	Three	No	No	**32WN66**	**32WN76**
2 hp	7.8 A	240V AC	Three	No	No	**32WN67**	**32WN77**
3 hp	11 A	240V AC	Three	No	No	**32WN68**	**32WN78**
5 hp	17.5 A	240V AC	Three	No	No	**32WN69**	**32WN79**
7 ½ hp	25 A	240V AC	Three	No	No	**32WN70**	**32WN80**
10 hp	31 A	240V AC	Three	No	No	**32WN71**	**32WN81**
15 hp	48 A	240V AC	Three	No	No	**32WN72**	**32WN82**
20 hp	61 A	240V AC	Three	No	No	**32WN73**	**32WN83**
25 hp	75 A	240V AC	Three	No	No	**32WN74**	**32WN84**
30 hp	88 A	240V AC	Three	No	No	**32WN75**	**32WN85**
480V AC - Three Phase 50/60 Hz Input							
1 hp	2.2 A	500V AC	Three	No	No	**32WN86**	**32WP03**
2 hp	4.3 A	500V AC	Three	No	No	**32WN87**	**32WP04**
3 hp	5.6 A	500V AC	Three	No	No	**32WN88**	**32WP05**
5 hp	7.6 A	500V AC	Three	No	No	**32WN89**	**32WP06**
5 hp	9 A	500V AC	Three	No	No	**32WN90**	**32WP07**
7 ½ hp	12 A	500V AC	Three	No	No	**32WN91**	**32WP08**
10 hp	16 A	500V AC	Three	No	No	**32WN92**	**32WP09**
15 hp	23 A	500V AC	Three	No	No	**32WN93**	**32WP10**
20 hp	31 A	500V AC	Three	No	No	**32WN94**	**32WP11**
25 hp	38 A	500V AC	Three	No	No	**32WN95**	**32WP12**
30 hp	46 A	500V AC	Three	No	No	**32WN96**	**32WP13**
40 hp	61 A	500V AC	Three	No	No	**32WN97**	**32WP14**
50 hp	72 A	500V AC	Three	No	No	**32WN98**	**32WP15**
60 hp	87 A	500V AC	Three	No	No	**32WN99**	**32WP16**
75 hp	105 A	500V AC	Three	No	No	**32WP01**	**32WP17**
100 hp	140 A	500V AC	Three	No	No	**32WP02**	**32WP18**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	With Line Contactor	With Bypass	Item No.
Eaton H-Max							
240V AC - Three Phase 50/60 Hz Input							
1 hp	4.8 A	240V AC	Three	NEMA 1	No	Yes	**32WP26**
2 hp	8 A	240V AC	Three	NEMA 1	No	No	**32WP27**
3 hp	11 A	240V AC	Three	NEMA 1	No	Yes	**32WP28**
5 hp	18 A	240V AC	Three	NEMA 1	No	Yes	**32WP29**
7 ½ hp	24 A	240V AC	Three	NEMA 1	No	Yes	**32WP30**
10 hp	31 A	240V AC	Three	NEMA 1	No	Yes	**32WP31**
15 hp	48 A	240V AC	Three	NEMA 1	No	Yes	**32WP32**
20 hp	62 A	240V AC	Three	NEMA 1	No	Yes	**32WP33**
25 hp	75 A	240V AC	Three	NEMA 1	No	Yes	**32WP34**
30 hp	88 A	240V AC	Three	NEMA 1	No	Yes	**32WP35**
480V AC - Three Phase 50/60 Hz Input							
1 ½ hp	3.4 A	480V AC	Three	NEMA 1	No	Yes	**32WP36**
2 hp	4.8 A	480V AC	Three	NEMA 1	No	Yes	**32WP37**
3 hp	5.6 A	480V AC	Three	NEMA 1	No	Yes	**32WP38**
4 hp	8 A	480V AC	Three	NEMA 1	No	Yes	**32WP39**
5 hp	9.6 A	480V AC	Three	NEMA 1	No	Yes	**32WP40**
7 ½ hp	12 A	480V AC	Three	NEMA 1	No	Yes	**32WP41**
10 hp	16 A	480V AC	Three	NEMA 1	No	Yes	**32WP42**
15 hp	23 A	480V AC	Three	NEMA 1	No	Yes	**32WP43**
20 hp	31 A	480V AC	Three	NEMA 1	No	Yes	**32WP44**
25 hp	38 A	480V AC	Three	NEMA 1	No	Yes	**32WP45**
30 hp	46 A	480V AC	Three	NEMA 1	No	Yes	**32WP46**
40 hp	61 A	480V AC	Three	NEMA 1	No	Yes	**32WP47**
50 hp	72 A	480V AC	Three	NEMA 1	No	Yes	**32WP48**
60 hp	87 A	480V AC	Three	NEMA 1	No	Yes	**32WP49**
75 hp	105 A	480V AC	Three	NEMA 1	No	Yes	**32WP50**
100 hp	140 A	480V AC	Three	NEMA 1	No	No	**32WP51**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	No Line Contactor: With Bypass Item No.	No Line Contactor: No Bypass Item No.	With Line Contactor: With Bypass Item No.
Eaton H-Max IntelliPass and IntelliDisconnect							
208V AC - Three Phase 50/60 Hz Input							
1 hp	4.6 A	208V AC	Three	NEMA 1	**32WP86**	**32WP52**	**32WR21**
2 hp	7.5 A	208V AC	Three	NEMA 1	**32WP87**	**32WP53**	**32WR22**
3 hp	11 A	208V AC	Three	NEMA 1	**32WP88**	**32WP54**	**32WR23**
5 hp	17 A	208V AC	Three	NEMA 1	**32WP89**	**32WP55**	**32WR24**
7 ½ hp	25 A	208V AC	Three	NEMA 1	**32WP90**	**32WP56**	**32WR25**
10 hp	31 A	208V AC	Three	NEMA 1	**32WP91**	**32WP57**	**32WR26**
15 hp	47 A	208V AC	Three	NEMA 1	**32WP92**	**32WP58**	**32WR27**
20 hp	60 A	208V AC	Three	NEMA 1	**32WP93**	**32WP59**	**32WR28**
25 hp	75 A	208V AC	Three	NEMA 1	**32WP94**	**32WP60**	**32WR29**
30 hp	88 A	208V AC	Three	NEMA 1	**32WP95**	**32WP61**	**32WR30**
230V AC - Three Phase 50/60 Hz Input							
1 hp	4.2 A	230V AC	Three	NEMA 1	**32WP96**	**32WP62**	**32WR31**
1 ½ hp	6.8 A	230V AC	Three	NEMA 1	**32WP97**	**32WP63**	**32WR32**
3 hp	9.6 A	230V AC	Three	NEMA 1	**32WP98**	**32WP64**	**32WR33**
5 hp	16 A	230V AC	Three	NEMA 1	**32WP99**	**32WP65**	**32WR34**
7 ½ hp	22 A	230V AC	Three	NEMA 1	**32WR01**	**32WP66**	**32WR35**
10 hp	28 A	230V AC	Three	NEMA 1	**32WR02**	**32WP67**	**32WR36**
15 hp	42 A	230V AC	Three	NEMA 1	**32WR03**	**32WP68**	**32WR37**
20 hp	54 A	230V AC	Three	NEMA 1	**32WR04**	**32WP69**	**32WR38**
25 hp	68 A	230V AC	Three	NEMA 1	**32WR05**	**32WP70**	**32WR39**
30 hp	80 A	230V AC	Three	NEMA 1	**32WR06**	**32WP71**	**32WR40**
480V AC - Three Phase 50/60 Hz Input							
1 hp	2.1 A	480V AC	Three	NEMA 1	**32WR07**	**32WP72**	**32WR41**
2 hp	3.4 A	480V AC	Three	NEMA 1	**32WR08**	**32WP73**	**32WR42**
2 hp	7.5 A	480V AC	Three	NEMA 1	**32WR10**	**32WP75**	**32WR44**
3 hp	5.6 A	480V AC	Three	NEMA 1	**32WR09**	**32WP74**	**32WR43**
7 ½ hp	11 A	480V AC	Three	NEMA 1	**32WR11**	**32WP76**	**32WR45**
10 hp	14 A	480V AC	Three	NEMA 1	**32WR12**	**32WP77**	**32WR46**
15 hp	21 A	480V AC	Three	NEMA 1	**32WR13**	**32WP78**	—
20 hp	27 A	480V AC	Three	NEMA 1	**32WR14**	**32WP79**	**32WR48**
25 hp	34 A	480V AC	Three	NEMA 1	**32WR15**	**32WP80**	**32WR49**
30 hp	40 A	480V AC	Three	NEMA 1	**32WR16**	**32WP81**	**32WR50**
40 hp	52 A	480V AC	Three	NEMA 1	**32WR17**	**32WP82**	**32WR51**
50 hp	65 A	480V AC	Three	NEMA 1	**32WR18**	**32WP83**	**32WR52**
60 hp	77 A	480V AC	Three	NEMA 1	**32WR19**	**32WP84**	**32WR53**
75 hp	96 A	480V AC	Three	NEMA 1	**32WR20**	**32WP85**	**32WR54**

Item	For Use With	Mfr. Model	Item No.
PowerXL Series			
Motor Drive Connecting Cables and Adapters			
Remote Keypad Cable	DG1 Drives	DXG-CBL-3M0	**40HZ10**
Remote Keypad Cable	DG1 Drives	DXG-CBL-1M0	**40HZ32**
Motor Drive Cooling			
Fan Kit	DG1 Drives	DXG-SPR-FR1FAN	**40HY79**
Fan Kit	DG1 Drives	DXG-SPR-FR4FAN	**40HY88**
Fan Kit	DG1 Drives	DXG-SPR-FR2FAN	**40HZ06**
Fan Kit	DG1 Drives	DXG-SPR-FR3FAN	**40HZ14**
Fan Kit	DG1 Drives	DXG-SPR-FR5FAN	**40HZ31**
Frame Kit	DG1 Drives	DXG-ACC-FR3N12KIT	**40HZ16**
Motor Drive Enclosures			
Conversion Kit	Variable Frequency Drives	DXG-ACC-4FR1N12KIT	**40HY89**
Motor Drive Input/Output Cards			
Control Board	Variable Frequency Drives	DXG-SPR-CTRLKIT	**40HZ17**
Input Option Card	Variable Frequency Drives	DXG-EXT-THER1	**40HY94**
Input Option Card	Variable Frequency Drives	DXG-EXT-6DI	**40HY98**
Option Card	Variable Frequency Drives	DXG-EXT-3RO	**40HZ03**
Option Card	Variable Frequency Drives	DXG-EXT-1AI2AO	**40HZ05**
Option Card	Variable Frequency Drives	DXG-EXT-3DI3DO1T	**40HZ24**
Motor Drive Keypad Mounting and Protection			
Flange Kit with Frame	DG1 Drives	DXG-ACC-FR2N12KIT	**40HY93**
Keypad Hole Plug	DG1 Drives	DXG-KEY-N12PLUG	**40HY85**
Remote Keypad Kit	DG1 Drives	DXG-KEY-RMTKIT	**40HZ11**
Remote Keypad Mounting Holder	DG1 Drives	DXG-KEY-HOLDER	**40HY96**
Motor Drive Keypads			
Standard Keypad	DG1 Drives	DXG-KEY-LCD	**40HY77**
Motor Drive Mounts and Mounting Adapters			
Flange Kit	Frame 5, PowerXL DG1 General Purpose Variable Frequency Drives	DXG-ACC-FR5N12FK	**40HY80**
Flange Kit	Frame 1, PowerXL DG1 General Purpose Variable Frequency Drives	DXG-ACC-FR1N12FK	**40HZ19**
Flange Kit	Frame 3, PowerXL DG1 General Purpose Variable Frequency Drives	DXG-ACC-FR3N12FK	**40HZ26**
Flange Kit	Frame 2, PowerXL DG1 General Purpose Variable Frequency Drives	DXG-ACC-FR2N12FK	**40HZ28**
Flange Kit	Frame 4, PowerXL DG1 General Purpose Variable Frequency Drives	DXG-ACC-FR4N12FK	**40HZ34**
SVX Series Series			
Motor Drive Input/Output Cards			
AC Drive Communication Card	SVX AC Drives	OPTCI	**32WP20**
BACnet Communication Card	HVX9000 Adjustable Frequency Drives	OPTCJ	**4LRX5**
Communication Card	Variable Frequency Drives	OPTC2	**32WP19**
Communication Card	Variable Frequency Drives	OPTCQ	**32WP22**

40HZ17

EATON

Eaton Variable Frequency Drive Accessories

Compatible with Eaton series VFDs and include components and kits to support remote keypads, enhanced communication, flange-mounting adapters, and enclosure options.

Item	For Use With	Mfr. Model	Item No.
Communication Card	Variable Frequency Drives	OPTC3	**32WP23**
Communication Card	SVX AC Drives	OPTC7	**32WP24**
Communication Card	Variable Frequency Drives	OPTC2	**4LRX2**
Communication Card	Adjustable Frequency Drives	OPTC4	**4LRX3**
Communication Card	Variable Frequency Drives	OPTCB	**4LRX4**
Input/Output Card	Variable Frequency Drives	OPTA2	**4LRW7**
Option Board	Variable Frequency Drives	OPTCJ	**32WP21**
Option Board	Adjustable Frequency Drives	OPTB4	**4LRX1**
Standard Input/Output Card	Variable Frequency Drives	OPTA9	**4LRW8**
Standard Input/Output Card	Variable Frequency Drives	OPTB5	**4LRW9**
Motor Drive Keypads			
AC Drive Keypad	SVX AC Drives	KEYPAD-LOC/REM	**32WP25**

13E632

32J571

Dayton Variable Frequency Drives

Dayton

- No line contactor
- No bypass

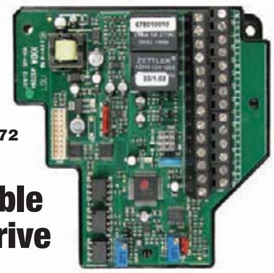
Hybrid Drives have internal digital microprocessors but are programmed using an analog interface and manual controls. **Digital Drives** are programmed using a keypad with LED status indicators and are compatible with GFCI circuits.

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	Black/ Gray Item No.	White FDA Approved Item No.
Dayton Hybrid Drives						
240V AC - Single, Three Phase 50/60 Hz Input						
3 hp	9 A	240V AC	Three	NEMA 4X	**13E638**	**13E639**
240V AC - Single Phase 50/60 Hz Input						
½ hp	2.4 A	240V AC	Three	NEMA 1	**13E660**	—
1 hp	3.6 A	240V AC	Three	NEMA 4X	**13E632**	**13E633**
1 hp	3.6 A	240V AC	Three	NEMA 1	**13E661**	—
2 hp	6.7 A	240V AC	Three	NEMA 4X	**13E634**	**13E635**
3 hp	9 A	240V AC	Three	NEMA 4X	**13E636**	**13E637**
480V AC - Three Phase 50/60 Hz Input						
3 hp	4.6 A	480V AC	Three	NEMA 4X	**13E640**	**13E641**
5 hp	8.3 A	480V AC	Three	NEMA 4X	**13E642**	**13E643**

Maximum Output Power	Maximum Output Current	Output Voltage	Output Phase AC	Encl. Rating	Black/ Blue/Gray Item No.	White FDA Approved Item No.
Dayton Digital Drives						
240V AC - Single Phase 50/60 Hz Input						
½ hp	2.4 A	240V AC	Three	IP20	**32J570**	—
1 hp	3.6 A	240V AC	Three	NEMA 4X	**13E644**	**13E645**
1 hp	4 A	240V AC	Three	IP20	**32J571**	—
2 hp	6.7 A	240V AC	Three	NEMA 4X	**13E646**	**13E647**
2 hp	6.7 A	240V AC	Three	IP20	**32J572**	—
3 hp	9 A	240V AC	Three	NEMA 4X	**13E648**	**13E649**
240V AC - Three Phase 50/60 Hz Input						
1 hp	3.6 A	240V AC	Three	NEMA 4X	**13E650**	**13E651**
3 hp	9 A	240V AC	Three	NEMA 4X	**13E652**	**13E653**
3 hp	9 A	240V AC	Three	IP20	**32J576**	—
480V AC - Three Phase 50/60 Hz Input						
1 hp	2 A	480V AC	Three	NEMA 4X	**13E654**	**13E655**
1 hp	2 A	480V AC	Three	IP20	**32J577**	—
3 hp	4.6 A	480V AC	Three	NEMA 4X	**13E656**	**13E657**
3 hp	5.5 A	480V AC	Three	IP20	**32J578**	—
5 hp	8.3 A	480V AC	Three	NEMA 4X	**13E658**	**13E659**
5 hp	8.3 A	480V AC	Three	IP20	**32J579**	—

Dayton

13E672



Dayton Variable Frequency Drive Accessories

Compatible with Dayton series VFDs and include components and kits to provide more control options with switches, enhanced communication, and fittings to ensure liquid-tight housing.

Item	For Use With Grainger Item Number	Item No.
Motor Drive Input/Output Cards		
Input/Output Module	13E644, 13E645, 13E646, 13E647, 13E648, 13E649, 13E650, 13E651, 13E652, 13E653, 13E654, 13E655, 13E656, 13E657, 13E658, 13E659, 13E662	**13E672**
Motor Drive Sealing		
Liquid Tight Fitting	13E632, 13E633, 13E634, 13E635, 13E636, 13E637, 13E638, 13E639, 13E640, 13E641, 13E642, 13E643, 13E644, 13E645, 13E646, 13E647, 13E648, 13E649, 13E650, 13E651, 13E652, 13E653, 13E654, 13E655, 13E656, 13E657, 13E658, 13E659	**13E665**
Motor Drive Switches		
Forward Stop Reverse Switch Kit	13E632, 13E633, 13E634, 13E635, 13E636, 13E637, 13E638, 13E639, 13E640, 13E641, 13E642, 13E643	**13E663**
Forward Stop Reverse Switch Kit	13E661	**13E664**
On/Off AC Line Switch Kit	13E632, 13E633, 13E644, 13E645	**13E667**
On/Off AC Line Switch Kit	13E634, 13E635, 13E636, 13E637, 13E646, 13E647, 13E648, 13E649	**13E668**
On/Off AC Line Switch Kit	13E650, 13E651, 13E654, 13E655	**13E670**
On/Off AC Line Switch Kit for 3 phase Drive	13E638, 13E639, 13E640, 13E641, 13E642, 13E643, 13E652, 13E653, 13E656, 13E657, 13E658, 13E659	**13E669**

SCR DC Speed Controls 5JJ55

DC Motor Speed Controls

PWM DC Speed Controls—Pulse width modulation (PWM) devices adjust voltage pulses to regulate the speed of DC motors. Used for low-voltage devices such as truck-mounted equipment, portable conveyors, and agricultural feeders.

SCR DC Speed Controls— Silicon controlled rectifier (SCR) DC motor controls convert AC voltage to DC voltage, which provides variable speed control for DC motors. Used in applications such as conveyors, packaging equipment, and centrifuges.

Maximum Current	DC Input Voltage	Voltage Output	Rotation	Speed Range	External Switches	Current/ Torque Limit	Overall Width	Overall Height	Overall Depth	Brand	Item No.
PWM DC Speed Controls											
Open											
10 A	12 to 48V DC	12 to 48V DC	Single Direction	30:1	None	Adjustable	3.62 in	4.25 in	1.3 in	Dart Controls	**38EG40**
20 A	12 to 48V DC	12 to 48V DC	Single Direction	30:1	None	Adjustable	3.62 in	4.25 in	1.3 in	Dart Controls	**38EG41**
40 A	24 to 36V DC	24 to 36V DC	Single Direction	30:1	None	Adjustable	3.7 in	7 in	1.7 in	Dart Controls	**2LHT8**
40 A	12V DC	12V DC	Single Direction	30:1	None	Adjustable	3.7 in	7 in	1.7 in	Dart Controls	**2LHT9**
60 A	12V DC	12V DC	Single Direction	30:1	None	Adjustable	6.7 in	9 in	2.27 in	Dart Controls	**6YC43**
60 A	24 to 36V DC	24 to 36V DC	Single Direction	30:1	None	Adjustable	6.7 in	9 in	2.27 in	Dart Controls	**6YC44**
Enclosed NEMA 4X											
10 A	12 to 48V DC	12 to 48V DC	Single Direction	30:1	ON/OFF	Adjustable	5.53 in	7.3 in	4.78 in	Dart Controls	**38EG42**
15 A	12 to 24V DC	12 to 24V DC	Single Direction	30:1	FWD/OFF/REV	Adjustable	5.53 in	7.3 in	4.78 in	Dart Controls	**65TK12**
20 A	12 to 48V DC	12 to 48V DC	Single Direction	30:1	ON/OFF	Adjustable	5.53 in	7.3 in	4.78 in	Dart Controls	**38EG43**

Maximum Current	AC Input Voltage	Voltage Output	Rotation	Speed Range	External Switches	Current/ Torque Limit	Shunt Wound Voltage	Dynamic Braking	Overall Width	Overall Height	Overall Depth	Brand	Item No.
SCR DC Speed Controls													
Open													
1.2 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Controls	**5DYG9**
1.2 A	120V AC	90V DC	Reversible	50:1	None	Adjustable	100V DC	Yes	6.25 in	7 in	4.06 in	Dart Controls	**5HA32**
1.2 A	240V AC	180V DC	Reversible	50:1	None	Adjustable	200V DC	Yes	6.25 in	7 in	4.06 in	Dart Controls	**5HA34**
2 A	12/24V AC	12/24V DC	Single Direction	25:1	None	—	10/20V DC	—	2.8 in	3.3 in	1.3 in	Dart Controls	**5JJ53**
2 A	12/24V AC	12/24V DC	Single Direction	25:1	None	None	10/20V DC	No	2.8 in	3.3 in	1.5 in	Dart Controls	**5JJ54**
2 A	120/240V AC	0 to 90/180V DC	Single Direction	25:1	ON/OFF	None	100/200V DC	No	4.9 in	4 in	2 in	Dayton	**4Z827**
2 A	120/240V AC	90/180V DC	Single Direction	25:1	None	None	100/200V DC	No	2.8 in	3.3 in	1.3 in	Dart Controls	**5JJ56**
2 A	120/240V AC	90/180V DC	Single Direction	25:1	None	None	100/200V DC	No	2.8 in	3.3 in	1.5 in	Dart Controls	**5JJ57**
5.5 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Controls	**2LHT4**
5.5 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Controls	**2LHT5**
5.5 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	3.63 in	4.25 in	1.3 in	Dart Controls	**2M510**
5.5 A	120V AC	90V DC	Reversible	50:1	None	Adjustable	100V DC	Yes	6.25 in	7 in	4.06 in	Dart Controls	**5HA33**
5.5 A	240V AC	180V DC	Reversible	50:1	None	Adjustable	200V DC	Yes	6.25 in	7 in	4.06 in	Dart Controls	**5HA35**
10 A	120/240V AC	90/180V DC	Reversible	50:1	None	Adjustable	100/200V DC	No	5.53 in	7 in	1.63 in	Dart Controls	**6Z385**
10 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	6.7 in	9 in	2 in	Dart Controls	**6Z387**
15 A	120/240V AC	90/180V DC	Single Direction	50:1	None	Adjustable	100/200V DC	No	6.7 in	9 in	2 in	Dart Controls	**5JJ59**
Enclosed NEMA 4X													
1.2 A	120/240V AC	0 to 90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	**6X165**
5 A	120/240V AC	90/180V DC	Single Direction	100:1	None	None	—	No	3.62 in	1.66 in	4.63 in	Dart Controls	**1XC92**
10 A	120/240V AC	0 to 90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	**1F794**
10 A	120/240V AC	0 to 90/180V DC	Reversible	50:1	AUTO/MANUAL, FWD/ STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	**4Z829**
10 A	120/240V AC	0 to 90/180V DC	Single Direction	50:1	ON/OFF	Adjustable	100/200V DC	No	5 in	9.5 in	5.5 in	Dayton	**5X485**
10 A	120/240V AC	90/180V DC	Single Direction	100:1	ON/OFF	—	—	—	5.13 in	7.4 in	3.9 in	Dart Controls	**2LHU2**
10 A	120/240V AC	90/180V DC	Single Direction	100:1	None	—	—	—	3.62 in	3.5 in	4.63 in	Dart Controls	**2LHU3**
Enclosed NEMA 4													
3 A	12/24V AC	12/24V DC	Single Direction	25:1	ON/OFF	—	—	—	3.81 in	3.5 in	5.5 in	Dart Controls	**5JJ55**
3 A	120/240V AC	90/180V DC	Single Direction	25:1	ON/OFF	None	100/200V DC	No	3.81 in	3.5 in	5.5 in	Dart Controls	**5JJ58**
10 A	120/240V AC	90/180V DC	Single Direction	50:1	ON/OFF	Adjustable	100/200V DC	No	5.53 in	7.25 in	2.75 in	Dart Controls	**13A944**
10 A	120/240V AC	90/180V DC	Reversible	50:1	FWD/OFF/REV	Adjustable	100/200V DC	No	5.53 in	7.25 in	2.75 in	Dart Controls	**2LHT6**
10 A	120/240V AC	0 to 90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	5 in	9.5 in	5.5 in	Dayton	**2M171**
10 A	120/240V AC	90/180V DC	Reversible	50:1	FWD/STOP/REV, ON/OFF	Adjustable	100/200V DC	Yes	6.7 in	10 in	4.75 in	Dart Controls	**2M511**
10 A	120/240V AC	90/180V DC	Single Direction	50:1	ON/OFF	Adjustable	100/200V DC	No	5.53 in	7.25 in	2.75 in	Dart Controls	**6Z386**
10 A	120/240V AC	90/180V DC	Single Direction	50:1	ON/OFF	Adjustable	100/200V DC	Yes	6.7 in	10 in	4.75 in	Dart Controls	**6Z388**
Enclosed NEMA 1													
2 A	120/240V AC	0 to 90/180V DC	Single Direction	25:1	ON/OFF	None	100/200V DC	No	4.25 in	5 in	1.88 in	Dayton	**4Z527**
2 A	120V AC	0 to 90V DC	Single Direction	25:1	ON/OFF	None	—	No	6 in	6 in	6.38 in	Dayton	**5X412**
10 A	120/240V AC	0 to 90/180V DC	Reversible	50:1	FWD/OFF/REV	Adjustable	—	No	6.5 in	5.13 in	6.5 in	Dayton	**41D720**
Enclosed IP30													
3 A	120V AC	0 to 90V DC	Single Direction	15:1	None	Adjustable	—	—	2.61 in	3.6 in	3.19 in	Dayton	**2PUX3**

DC Tachometer and Pulse Generators

3VU57

Tachometer/Process Meter— Microprocessor-based digital system measure shaft speed lower than 1 rpm and operate as a digital rate meter, timer, or process counter. An onboard microcomputer equipped with sophisticated software, quartz crystal controlled reference frequency, and display updating on every pulse permits accuracy of ±0.04%

- 4-digit ½" LED
- NEMA 4X rating (faceplate with supplied gasket)
- Includes option board for proximity sensor input

Pulse Generators—Provide square-wave pulses with frequency proportional to shaft rpm of unit to which it is mounted. Stainless steel ball bearing, compact Santoprene rubber housing, and 6-ft. rubber-jacketed output cable with 3-wire 18 AWG conductors. Mount directly to motor shaft being monitored using single #10-32 screw.

- Operating temp. range: -10° to 45°C
- Max. shaft speed: 5000 rpm

Input Voltage	Pulses per Revolution	Mfr. Model	Item No.
Tachometer and Process Meter			
120/240VAC	—	DM8000	**3VU57**
Pulse Generator			
4.5 to 24V DC	1	PU-2E	**6Z392**
4.5 to 24V DC	10	PU-20E	**5JJ65**
4.5 to 24V DC	20	PU-40E	**38D074**

Potentiometer Kits

Digital

Type	Input Voltage	Voltage Output	Display	Includes	Item No.
5K Ohm	—	—	Dial Plate	Dial Plate; 8 ¾ in Leads; Knob; Speed Pot	**2LHT7**
Digital	85 to 265V AC	0 to 24V DC	LED	Gasket Kit for NEMA 4X Panel Installation	**2LHU1**

Class 8539 Circuit Breaker Starter 1H694

Class 8538 Fusible Starter 1H689

NEMA Combination Motor Starters and Accessories

SQUARE D by Schneider Electric

- 3-pole, 60/50 Hz, 600VAC max.
- Thermal units sold separately, see page 166
- Class RK5 (600V) fuses on page 178

Motor starter disconnect switches have a flange-operated visible blade switch. Fusible combination starters have a fusible disconnect switch and come complete with fuse blocks for RK5 type 600V fuses. Class R fuse clips sold separately. Circuit breaker combination starters feature a PowerPact motor circuit protector.

NEMA Size	Thermal Unit Code*	Enclosure NEMA Rating	Amps AC	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
NEMA Circuit Breaker Combination Starters							
Separate Control, 120V AC Coil							
0	D1	1	18 A	3 hp	5 hp	8539SBG43V02S	**1H695**
0	D1	12	18 A	3 hp	5 hp	8539SBA53V02S	**1H694**
1	D1	1	27 A	7 ½ hp	10 hp	8539SCG44V02S	**1H699**
1	D1	12	27 A	7 ½ hp	10 hp	8539SCA54V02S	**1H697**
2	D4	1	45 A	10 hp	25 hp	8539SDG43V02S	**1YDU3**
2	D4	12	45 A	10 hp	25 hp	8539SDA53V02S	**1YDU4**
With Hand/Off/Auto Switch, 1 Red Pilot Light, and 480V Control Transformer, 120V AC Coil, 1NO/1NC							
0	D1	12	18 A	3 hp	5 hp	8539SBG43V81CFF4P1TX11	**1YDW3**
NEMA Fusible Combination Starters							
Separate Control, 120V AC Coil							
0	D1	1	18	—	5 hp	8538SBG13V02S	**1H689**
0	D1	12	18	—	5 hp	8538SBA23V02S	**1H688**
1	D1	1	27	—	10 hp	8538SCG14V02S	**1H691**
1	D1	12	27	—	10 hp	8538SCA24V02S	**1H690**
2	D4	1	45	—	25 hp	8538SDG14V02S	**1H693**
2	D4	12	45	—	25 hp	8538SDA24V02S	**1H692**
3	D5	1	90	30 hp	50 hp	8538SEG13V02S	**2FL22**
With Hand/Off/Auto Switch, 1 Red Pilot Light, and 480V Control Transformer, 120V AC Coil, 1NO/1NC							
0	D1	1	18	—	5 hp	8538SBG13V81CFF4P1TX11	**1YDV3**
1	D1	1	27	7 ½ hp	10 hp	8538SCG14V81CFF4P1TX11	**1YDV5**
1	D1	12	27	—	10 hp	8538SCA24V81CFF4P1TX11	**1YDV6**
2	D4	1	45	—	25 hp	8538SDG14V81CFF4P1TX11	**1YDV7**
With Push-Button Start/Stop Switch, 1 Red Pilot Light, and 480V Control Transformer, 120V AC Coil, 1NO/1NC							
0	D1	12	18	3 hp	5 hp	8538SBA23V81AFF4P1TX11	**1YDU7**
1	D1	1	27	7 ½ hp	10 hp	8538SCG14V81AFF4P1TX11	**1YDU8**
1	D1	12	27	7 ½ hp	10 hp	8538SCA24V81AFF4P1TX11	**1YDU9**

Description/ Special Features	Type	Max. Voltage	Disconnect Switch Size	Mfr. Model	Item No.
Fuse Rejection Kits					
NEMA 0, 1	Class R	250	30A	RFK03	**1H715**
NEMA 0, 1, 2	Class R	600	30 and 60A	RFK06	**1H716**
NEMA 2	Class R	600	60A	RFK06H	**2CR85**
Control Transformer					
100VA, 240/480VAC Primary, 120VAC Secondary, 3.43 W x 5.82 H x 5.38" D				9070GO2D1	**1D644**

** See page 166.*

With Start/Stop Push Buttons and Transformer 4LVX6

With Hand/Off/Auto Switch 6PXK1

Hoffman

IEC Combination Motor Starters

- Short-circuit and motor overload protection
- 3-pole, 60/50 Hz
- 120VAC coil
- Self-protected, Type E
- 1NO auxiliary contact (GE includes 1NC)
- Hand/Off/Auto models have DIN rail-mount terminal blocks for external accessories
- 100VA transformer (where applicable)

Adjustable motor circuit protector eliminates the need for heater elements (thermal units). Starters have visual short-circuit indicator and LED pilot light. UL Listed, CSA Certified.

Amps AC	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Control Transformer	START/STOP PUSH BUTTON Item No.	HAND/ OFF/AUTO SELECTOR SWITCH Item No.
Enclosure NEMA Rating 1					
1 to 1.6	⅓ hp	¾ hp	No	**39N381**	**39N387**
	⅓ hp	¾ hp	Yes	**39N399**	**39N393**
1.5 to 2.5	½ hp	1 hp	No	**39N382**	**39N388**
	½ hp	1 hp	Yes	**39N401**	**39N394**
2.5 to 4	¾ hp	2 hp	No	**39N383**	**39N389**
	¾ hp	2 hp	Yes	**39N402**	**39N395**
4 to 6.3	1 ½ hp	3 hp	No	**39N384**	**39N390**
	1 ½ hp	3 hp	Yes	**39N403**	**39N396**
6.3 to 10	3 hp	5 hp	No	**39N385**	**39N391**
	3 hp	5 hp	Yes	**39N404**	**39N397**
9 to 13	3 hp	7 ½ hp	No	**39N386**	**39N392**
	3 hp	7 ½ hp	Yes	**39N405**	**39N398**
11 to 16	5 hp	10 hp	No	**6PXJ3**	**6PXJ7**
	5 hp	10 hp	Yes	—	**6PXK1**
14 to 20	5 hp	10 hp	No	**6PXJ4**	**6PXJ8**
	5 hp	10 hp	Yes	—	**6PXK2**
19 to 25	7 ½ hp	15 hp	No	**6PXJ5**	**6PXJ9**
	7 ½ hp	15 hp	Yes	—	**6PXK3**
24 to 32	10 hp	20 hp	No	**6PXJ6**	**6PXK0**
	10 hp	20 hp	Yes	—	**6PXK4**
Enclosure NEMA Rating 4X					
1 to 1.6	⅓ hp	¾ hp	Yes	**39N375**	**41H798**
	⅓ hp	¾ hp	No	**29HZ73**	**39N369**
1.5 to 2.5	½ hp	1 hp	Yes	**39N376**	**41H799**
	½ hp	1 hp	No	**29HZ74**	**39N370**
2.5 to 4	¾ hp	2 hp	Yes	**39N377**	**41H801**
	¾ hp	2 hp	No	**29HZ75**	**39N371**
4 to 6.3	1 ½ hp	3 hp	Yes	**39N378**	**41H802**
	1 ½ hp	3 hp	No	**29HZ76**	**39N372**
6.3 to 10	3 hp	5 hp	Yes	**39N379**	**41H803**
	3 hp	5 hp	No	**29HZ77**	**39N373**
9 to 13	3 hp	7 ½ hp	No	**29HZ78**	**39N374**
	3 hp	7 ½ hp	Yes	**39N380**	**41H804**
11 to 16	5 hp	10 hp	No	—	**29HZ79**
	5 hp	10 hp	Yes	**4LVX6**	**4LVX2**
	5 hp	10 hp	No	—	**4LVU7**
14 to 20	5 hp	10 hp	No	—	**29HZ80**
	5 hp	10 hp	Yes	**4LVX7**	**4LVX3**
	5 hp	10 hp	No	—	**4LVU8**
19 to 25	7 ½ hp	15 hp	Yes	**4LVX8**	**4LVX4**
	7 ½ hp	15 hp	No	—	**29HZ81**
	7 ½ hp	15 hp	No	—	**4LVU9**
24 to 32	10 hp	20 hp	Yes	**4LVX9**	**4LVX5**
	10 hp	20 hp	No	—	**29HZ82**
	10 hp	20 hp	No	—	**4LVX1**

NEMA Magnetic Motor Starters with Solid State Overload Relays

SQUARE D by Schneider Electric

- Class 10/20 selectable thermal protection
- 3-pole, 60/50 Hz, 600VAC max.
- Accessories and replacement parts on page 163

Full-voltage starters start and stop 3-phase AC motors. Manual push-to-test and visible trip indicator. Trip-free construction allows overload relay to trip even if reset lever is blocked or in the reset position. Overload relay has heaterless construction and adjustable full load amp setting.

Normally open holding circuit contact allows 3-wire control. Angled contacts provide high contact pressure and positive seating. Spring-assisted gravity dropout on de-energizing quickly extinguishes any arcing. UL Listed and CSA Certified.

Nonreversing, Open
5E748

Reversing, Open
2MMG7

NEMA Size	Amps AC	Coil Volts	
NEMA Style Magnetic Motor Starter, Nonreversing			
1 Enclosure NEMA Rating			
00	9	120V AC	**21ET51**
00	9	480V AC	**21ET53**
00	9	208V AC	**21ET54**
0	18	120V AC	**5E732**
0	18	240V AC	**5E734**
0	18	480V AC	**5E736**
0	18	208V AC	**5E738**
1	27	120V AC	**5F019**
1	27	240V AC	**5F021**
1	27	480V AC	**5F023**
1	27	208V AC	**5F025**
2	45	120V AC	**5F059**
2	45	240V AC	**5F061**
2	45	480V AC	**5F063**
2	45	208V AC	**5F065**
3	90	480V AC	**2MMA7**
3	90	120V AC	**5F099**
3	90	208V AC	**5F105**
4	135	120V AC	**2MMC6**
4	135	480V AC	**2MMC8**
12, 3R Enclosure NEMA Rating			
3	90	120V AC	**2MMA8**
No Enclosure NEMA Rating			
00	9	120V AC	**21ET55**
0	18	120V AC	**5E748**
0	18	240V AC	**5E750**
0	18	480V AC	**5E752**
0	18	208V AC	**5F001**
1	27	120V AC	**5F035**
1	27	240V AC	**5F037**
1	27	480V AC	**5F039**
1	27	208V AC	**5F041**
2	45	120V AC	**5F075**
2	45	240V AC	**5F077**
2	45	480V AC	**5F079**
2	45	208V AC	**5F081**
3	90	120V AC	**5F115**
3	90	240V AC	**5F117**
3	90	480V AC	**5F119**
3	90	208V AC	**5F121**
4	135	480V AC	**2MMD5**
4	135	208V AC	**2MMD6**
4	135	120V AC	**5F155**
4	135	240V AC	**5F157**
NEMA Style Magnetic Motor Starter, Reversing			
1 Enclosure NEMA Rating			
1	27	120V AC	**5F187**
No Enclosure NEMA Rating			
00	9	120V AC	**21ET58**
0	18	120V AC	**5F179**
1	27	120V AC	**5F195**
2	45	120V AC	**5F331**
3	90	120V AC	**2MMG4**†
4	135	120V AC	**2MMG7**

† 240VAC and 480VAC coil not available.

NEMA Magnetic Motor Starters with Standard Overload Relays

SQUARE D by Schneider Electric

- Melting alloy thermal overload relays
- Class 20 thermal protection
- 2- or 3-pole, 60/50 Hz, 600VAC max.
- Thermal units sold separately, page 166
- Accessories and replacement parts on page 163

Full-voltage starters start and stop 1- and 3-phase AC motors. Manual push-to-test and visible trip indicator. Trip-free construction allows overload relay to trip even if reset lever is blocked or in the reset position.

Normally open holding circuit contact for 3-wire control. Angled contacts provide high contact pressure and positive seating. Spring-assisted gravity dropout on de-energizing contacts quickly extinguishes any arcing. UL Listed and CSA Certified.

NEMA 1
1H481

Open
1H513

NEMA 12
1H477

NEMA Size	Amps AC	Coil Volts	HP @ 1-Phase 230V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Thermal Unit Code	
Square D Magnetic Motor Starter with Thermal Overload							
1 Enclosure NEMA Rating							
00	9 A	120V AC	1 hp	—	—	A1	**1H468**
00	9 A	240V AC	1 hp	—	—	A1	**1H469**
00	9 A	120V AC	—	1 ½ hp	2 hp	C1	**1H470**
00	9 A	240V AC	—	1 ½ hp	2 hp	C1	**1H471**
00	9 A	480V AC	—	1 ½ hp	2 hp	C1	**1H472**
00	9 A	208V AC	—	1 ½ hp	2 hp	C1	**1H473**
00	9 A	24V AC	—	1 ½ hp	2 hp	—	**2BX12**
00	9 A	120V AC	—	1 ½ hp	2 hp	D1	**2BX76**
0	18 A	208V AC	2 hp	—	—	D3	**19YA90**
0	18 A	120V AC	—	3 hp	5 hp	D3	**19YC50**
0	18 A	120V AC	2 hp	—	—	A2	**1H481**
0	18 A	240V AC	2 hp	—	—	A2	**1H482**
0	18 A	120V AC	—	3 hp	5 hp	C2	**1H483**
0	18 A	240V AC	—	3 hp	5 hp	C2	**1H484**
0	18 A	480V AC	—	3 hp	5 hp	C2	**1H485**
0	18 A	208V AC	—	3 hp	5 hp	C2	**1H486**
0	18 A	120V AC	—	3 hp	5 hp	D2	**1H554**
0	18 A	24V AC	—	3 hp	5 hp	—	**2BX18**
0	18 A	240V AC	—	3 hp	5 hp	D2	**2PXE9**
1	27 A	240V AC	3 hp	—	—	D3	**19YC12**
1	27 A	120V AC	3 hp	—	—	A3	**1H500**
1	27 A	240V AC	3 hp	—	—	A3	**1H501**
1	27 A	120V AC	—	7 ½ hp	10 hp	C3	**1H504**
1	27 A	240V AC	—	7 ½ hp	10 hp	C3	**1H505**
1	27 A	480V AC	—	7 ½ hp	10 hp	C3	**1H506**
1	27 A	208V AC	—	7 ½ hp	10 hp	C3	**1H507**
1	27 A	120V AC	—	7 ½ hp	10 hp	D3	**1H556**
1	27 A	24V AC	—	7 ½ hp	10 hp	—	**2BX34**
1P	36 A	120V AC	5 hp	—	—	A4	**1H502**
1P	36 A	240V AC	5 hp	—	—	A4	**1H503**
2	45 A	120V AC	—	15 hp	25 hp	C4	**1H520**
2	45 A	240V AC	—	15 hp	25 hp	C4	**1H521**
2	45 A	480V AC	—	15 hp	25 hp	C4	**1H522**
2	45 A	208V AC	—	15 hp	25 hp	C4	**1H523**
2	45 A	120V AC	—	15 hp	25 hp	D4	**1H558**
2	45 A	120V AC	7 ½ hp	—	—	A5	**2BX51**
2	45 A	240V AC	7 ½ hp	—	—	A5	**2BX52**
2	45 A	240V AC	—	15 hp	25 hp	D4	**2PXG2**
3	90 A	120V AC	—	30 hp	50 hp	C5	**1H535**
3	90 A	240V AC	—	30 hp	50 hp	C5	**1H536**
3	90 A	480V AC	—	30 hp	50 hp	C5	**1H537**
3	90 A	208V AC	—	30 hp	50 hp	C5	**1H538**
4	135 A	120V AC	—	50 hp	100 hp	C6	**1H545**
4	135 A	480V AC	—	50 hp	100 hp	C6	**1H547**
4	135 A	208V AC	—	50 hp	100 hp	C6	**1H548**
4	135 A	240V AC	—	50 hp	100 hp	C6	**2PXD8**
4, 4X Enclosure NEMA Rating							
0	18 A	120V AC	—	3 hp	5 hp	C2	**1H495**
1	27 A	120V AC	—	7 ½ hp	10 hp	C3	**5B616**
12, 3R Enclosure NEMA Rating							
0	18 A	120V AC	—	3 hp	5 hp	C2	**1H477**
0	18 A	480V AC	—	3 hp	5 hp	C2	**2PWZ3**
0	18 A	208V AC	—	3 hp	5 hp	C2	**2PWZ4**
1	27 A	120V AC	—	7 ½ hp	10 hp	C3	**1H496**
1	27 A	240V AC	—	7 ½ hp	10 hp	C3	**1H497**
1	27 A	480V AC	—	7 ½ hp	10 hp	C3	**1H498**
1	27 A	208V AC	—	7 ½ hp	10 hp	C3	**1H499**
2	45 A	120V AC	—	15 hp	25 hp	C4	**1H517**
2	45 A	240V AC	—	15 hp	25 hp	C4	**2PXA9**
2	45 A	480V AC	—	15 hp	25 hp	C4	**2PXC1**
2	45 A	208V AC	—	15 hp	25 hp	C4	**2PXC2**
3	90 A	120V AC	—	30 hp	50 hp	C5	**1H532**
3	90 A	240V AC	—	30 hp	50 hp	C5	**2PXC7**
3	90 A	208V AC	—	30 hp	50 hp	C5	**2PXC9**
4	135 A	120V AC	—	50 hp	100 hp	C6	**20AZ20**
No Enclosure NEMA Rating							
00	9 A	120V AC	—	1 ½ hp	2 hp	D1	**1H474**
00	9 A	240V AC	—	1 ½ hp	2 hp	D1	**1H475**
00	9 A	208V AC	—	1 ½ hp	2 hp	D1	**1H476**
00	9 A	120V AC	—	1 ½ hp	2 hp	D1	**2BX80**
00	9 A	120V AC	1 hp	—	—	B1	**2PWY9**
00	9 A	480V AC	—	1 ½ hp	2 hp	D1	**5B614**
0	18 A	120V AC	2 hp	—	—	D3	**19YA95**
0	18 A	120V AC	—	3 hp	5 hp	D3	**19YA98**
0	18 A	240V AC	—	3 hp	5 hp	D3	**19YC58**
0	18 A	120V AC	2 hp	—	—	B2	**1H490**
0	18 A	120V AC	—	3 hp	5 hp	D2	**1H491**
0	18 A	240V AC	—	3 hp	5 hp	D2	**1H492**
0	18 A	480V AC	—	3 hp	5 hp	D2	**1H493**
0	18 A	208V AC	—	3 hp	5 hp	D2	**1H494**
0	18 A	120V AC	—	3 hp	5 hp	D2	**1H555**
0	18 A	240V AC	2 hp	—	—	B2	**2BX25**
0	18 A	24V AC	—	3 hp	5 hp	—	**2BX26**
1	27 A	120V AC	—	7 ½ hp	10 hp	D3	**19YC21**
1	27 A	120V AC	3 hp	—	—	B3	**1H511**
1	27 A	120V AC	—	7 ½ hp	10 hp	D3	**1H513**
1	27 A	240V AC	—	7 ½ hp	10 hp	D3	**1H514**
1	27 A	480V AC	—	7 ½ hp	10 hp	D3	**1H515**
1	27 A	208V AC	—	7 ½ hp	10 hp	D3	**1H516**
1	27 A	120V AC	—	7 ½ hp	10 hp	D3	**1H557**
1	27 A	24V AC	—	7 ½ hp	10 hp	—	**2BX41**
1	27 A	240V AC	3 hp	—	—	B3	**2PXA3**
1P	36 A	240V AC	5 hp	—	—	B4	**20AZ19**
2	45 A	120V AC	—	15 hp	25 hp	D4	**1H527**
2	45 A	240V AC	—	15 hp	25 hp	D4	**1H528**
2	45 A	480V AC	—	15 hp	25 hp	D4	**1H529**
2	45 A	208V AC	—	15 hp	25 hp	D4	**1H530**
2	45 A	24V AC	—	15 hp	25 hp	—	**2BX53**
2	45 A	120V AC	—	15 hp	25 hp	D4	**2PXG5**
2	45 A	480V AC	—	15 hp	25 hp	D4	**2PXG7**
3	90 A	120V AC	—	30 hp	50 hp	D5	**1H541**
3	90 A	240V AC	—	30 hp	50 hp	D5	**1H542**
3	90 A	480V AC	—	30 hp	50 hp	D5	**1H543**
3	90 A	208V AC	—	30 hp	50 hp	D5	**1H544**
3	90 A	120V AC	—	30 hp	50 hp	D5	**2PXH3**
4	135 A	120V AC	—	50 hp	100 hp	D6	**1H549**
4	135 A	240V AC	—	50 hp	100 hp	D6	**1H550**
4	135 A	208V AC	—	50 hp	100 hp	D6	**1H551**
4	135 A	480V AC	—	50 hp	100 hp	D6	**5B617**
5	270 A	120V AC	—	100 hp	200 hp	—	**1H553**

Contactor NEMA Size 3

Motor Starter NEMA Size 0

NEMA Magnetic Contactors and Motor Starters

- 3 pole
- Include 1NO aux. contact

UL Listed.

CONTACTORS

For use with resistance heating and capacitor circuits; may be used to control AC motors where overload protection is provided separately.

MOTOR STARTERS

Protect against motor overload on 3-phase motor circuits. Manual weld check. Toolless disassembly. Class 20 overload protection with visible trip indicator and manual reset. Motor starters without electronic overload relays require 3 heaters, see below for selection.

NEMA Size	Amps AC	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	W	H	D	Mfr. Model	Item No.
Nonreversing Contactors, No Enclosure									
0	18 A		3 hp	5 hp	3.94	4.5	3.1	CR305B00	**H2444**
1	27 A		7 ½ hp	10 hp	3.94	4.5	3.1	CR305C00	**H2445**
2	45 A	120V AC; 240V AC; 480V AC	15 hp	25 hp	5.5	6.62	5.5	CR305D00	**H2446**
3	90 A		30 hp	50 hp	6.5	8.81	6.7	CR305E00	**H2447**
4	135 A		50 hp	100 hp	6.5	8.81	6.7	CR305F00	**H2448**
Nonreversing Motor Starters, No Enclosure									
00	9 A		1 ½ hp	2 hp	3.71	7.8	3.94	CR306A00	**H2440**
0	18 A		3 hp	5 hp	3.71	7.8	3.94	CR306B00	**H2441**
1	27 A	120V AC; 240V AC; 480V AC	7 ½ hp	10 hp	3.71	7.8	3.94	CR306C00	**H2442**
2	45 A		15 hp	25 hp	5.44	9.12	5.5	CR306D00	**H2443**
3	90 A		30 hp	50 hp	6.62	11.62	6.5	CR306E00	**H2423**
4	135 A		50 hp	100 hp	6.62	11.62	6.5	CR306F00	**H2424**
00	9 A	120V AC	1 ½ hp	2 hp	6	10	4.63	CR306A10	**H2429**
Nonreversing Motor Starters, Enclosed									
00	9 A	240V AC; 480V AC	1 ½ hp	2 hp	6	10	4.63	CR306A10	**H2429**
Nonreversing Motor Starters, No Enclosure									
0	18 A	120V AC; 240V AC; 480V AC	3 hp	5 hp	6	10	4.63	CR306B10	**H2430**
Nonreversing Motor Starters, Enclosed									
1	27 A	120V AC; 240V AC; 480V AC	7 ½ hp	10 hp	6	10	4.63	CR306C10	**H2431**
2	45 A		15 hp	25 hp	7.38	13.25	6.13	CR306D10	**H2432**
3	90 A	120V AC; 240V AC	30 hp	50 hp	8.75	20.25	7.31	CR306E10	**H2433**
Nonreversing Motor Starters, No Enclosure									
3	90 A	480V AC	30 hp	50 hp	8.75	20.25	7.31	CR306E10	**H2433**
Nonreversing Motor Starters, Enclosed									
4	135 A	120V AC; 240V AC	50 hp	100 hp	8.75	25	7.31	CR306F10	**H2434**
Nonreversing Motor Starters, No Enclosure									
4	135 A	480V AC	50 hp	100 hp	8.75	25	7.31	CR306F10	**H2434**
5	270 A	120V AC; 240V AC; 480V AC	100 hp	200 hp	17	45.12	11.0	CR306G10	**H2435**
Nonreversing Motor Starters with Electronic Overload Relay, No Enclosure									
1	6.5 to 13.5		1 ½ hp	10 hp	3.71	7	3.94	CR306C00 00XAAAAG	**H2425**
2	25 to 50	120V AC; 240V AC; 480V AC	15 hp	25 hp	5.44	9.12	5.5	CR306D00 00XAAAAJ	**H2426**
3	35 to 70		30 hp	50 hp	6.62	11.62	6.5	CR306E00 00XAAAAL	**H2427**
4	135		50 hp	100 hp	6.62	11.62	6.5	CR306F00 00XAAAAM	**H2428**
Nonreversing Motor Starters with Electronic Overload Relay, Enclosed									
1	6.5 to 13.5	120V AC; 240V AC; 480V AC	1 ½ hp	10 hp	3.71	7	3.94	CR306C10 00XAAAAG	**H2436**
Reversing Motor Starters, Enclosed									
0	18 A	120V AC; 240V AC; 480V AC	3 hp	5 hp	4.94	14	4.59	CR309B10	**H2438**
1	27 A		7 ½ hp	10 hp	4.94	14	4.59	CR309C10	**H2439**
2 Speed Motor Starters, Enclosed									
1	27 A	120V AC; 240V AC; 480V AC	7 ½ hp	10 hp	8.88	7	3.94	CR309C10 AKA	**H2437**

Heater

Replacement Coil

Auxiliary Contact Adder Block

Motor Starter Heaters and Accessories

- 3-pole starters require 3 heaters (thermal units)
- Amps shown are for motors with 1.15 to 1.25 service factor

Full-Load Amps @ 3-Phase NEMA Size 3 Regular Encl.	NEMA Size 3 Large Encl.	NEMA Size 4 Regular Encl.	NEMA Size 4 Large Encl.	Mfr. Model	Item No.
Heaters					
31.3	31.8	32	32.2	CR123F357B	**3HYX9**
33.3	33.9	34.2	34	CR123F395B	**3HYY1**
34.3	37.6	36.7	36.8	CR123F430B	**3HYY2**
40.9	41.9	43.9	44.6	CR123F487B	**3HYY3**
44.7	47.7	46.6	48.4	CR123F567B	**3HYY4**
51	52.1	52.6	53.9	CR123F614B	**3HYY5**
52	55.8	55.6	57.4	CR123F658B	**3HYY6**
55.4	59.7	58.7	60	CR123F719B	**3HYY7**
63.3	68.1	67.1	69.5	CR123F772B	**3HYY8**
66.1	71.5	70.6	71.7	CR123F848B	**3HYY9**
73.5	78.2	76.3	79.9	CR123F914B	**3HYZ1**
82.2	87.5	88.7	92.3	CR123F104C	**3HYW6**
90	90	93.4	97	CR123F114C	**3HYW7**
—	—	102	108	CR123F118C	**3HYW8**
—	—	110	118	CR123F133C	**3HYW9**
—	—	122	131	CR123F149C	**3HYX1**
—	—	131	135	CR123F161C	**3HYX2**
—	—	135	—	CR123F174C	**3HYX3**
18.4	19.3	—	—	CR123F233B	**3HYX4**
21.1	22.1	—	—	CR123F243B	**3HYX5**
22.1	23.4	—	—	CR123F270B	**3HYX6**
26.1	27	—	—	CR123F300B	**3HYX7**
28	29.1	—	—	CR123F327B	**3HYX8**

Starter Size	120VAC Item No.	277VAC Item No.	240VAC Item No.	480VAC Item No.
Replacement Coils				
0, 00, 1	**3AGH5**	—	—	—
2	**3AGH8**	**6AMR0**	**3AGH9**	**3HYN1**
00, 1	—	**6AMP8**	**3AGH6**	**3AGH7**
3	**3HYN2**	**6AMX3**	**3HYN3**	**3HYN4**
4	**3HYN5**	**6AMX5**	**3HYN6**	**3HYN7**
5	**6AMX6**	—	—	**6AMX8**

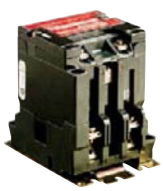
No. of NC Aux. Contacts	No. of NO Aux. Contacts	Starter Size	Mfr. Model	Item No.
NEMA Adder Auxiliary Contact Blocks				
0	1	00 to 4	CR305X100D	**3HWN3**
1	0	00 to 4	CR305X100E	**3HWN4**
NEMA Auxiliary Contact Blocks				
1	1	0, 00, 1	CR305X100C	**3HWN2**
1	1	2	CR305X200C	**3HWN5**
1	1	3, 4	CR305X300C	**3HWN6**

Legend	Starter Size	Mfr. Model	Item No.
Push Button Kits			
Start/Stop/Momentary Contact	00 to 1	CR305X120N	**3HYP1**
Start/Stop/Momentary Contact	2	CR305X220N	**6AND1**
Start/Stop/Momentary Contact	3, 4	CR305X320B	**6AND5**
Start/Stop/Momentary Contact	5	CR305X520B	**6AND9**
Selector Switch Kits			
Hand/Off/Auto	00 to 1	CR305X130N	**3HYP2**
Hand/Off/Auto	2	CR305X230N	**6AND3**
Hand/Off/Auto	3, 4	CR305X330B	**6AND6**

NEMA Size	Current Range	Mfr. Model	Item No.
Overload Relays			
0, 00, 1	—	CR324C360F	**6ANH5**
0, 00, 1	—	CR324C660F	**6ANH6**
NEMA Overload Relays			
0, 1	6.5 to 13.6A	CR324CXGS	**6ANH7**
0, 1	13.0 to 27.0A	CR324CXHS	**6ANH8**
Mount Adapters			
—	—	CR324CXPMA	**6ANH9**

Full-Load Amps @ 3-Phase NEMA Size 00, 0, or 1 Regular Encl.	NEMA Size 00, 0, or 1 Large Encl.	NEMA Size 2 Regular Encl.	NEMA Size 2 Large Encl.	Mfr. Model	Item No.
Heaters					
5.77	5.91	5.48 to 5.85	5.85	CR123C630A	**3HYW1**
6.35	6.47	5.86 to 6.47	6.47	CR123C695A	**3HYW2**
6.92	7.20	6.48 to 7.35	7.35	CR123C778A	**3HYW3**
7.99	8.22	7.36 to 8.06	8.06	CR123C867A	**3HYW4**
8.47	8.72	8.07 to 9.03	9.03	CR123C955A	**3HYW5**
9.19	9.67	9.04 to 9.61	9.61	CR123C104B	**3HYR1**
10.00	10.40	9.62 to 10.5	10.50	CR123C113B	**3HYR3**
10.70	11.00	10.6 to 11.6	11.60	CR123C125B	**3HYR5**
12.00	12.40	11.7 to 12.5	12.50	CR123C137B	**3HYR7**
12.9	13.2	12.6 to 13.6	13.6	CR123C151B	**3HYR9**
15.10	15.40	13.7 to 16.7	16.70	CR123C163B	**3HYT2**
16.30	17.10	16.8 to 17.9	17.90	CR123C180B	**3HYT3**
17.90	18.10	18.0 to 18.7	18.70	CR123C198B	**3HYT6**
19.70	20.00	18.8 to 20.4	20.40	CR123C214B	**3HYT7**
21.20	21.50	20.5 to 22.7	22.70	CR123C228B	**3HYT9**
22.30	22.50	22.8 to 24.7	24.70	CR123C250B	**3HYU2**
23.50	23.80	24.8 to 26.3	26.30	CR123C273B	**3HYU4**
25.50	26.30	26.4 to 29.5	29.50	CR123C303B	**3HYU6**
27.00	27.00	29.6 to 32.5	32.50	CR123C330B	**3HYU8**
—	—	32.6 to 36.7	36.70	CR123C366B	**3HYV1**
—	—	36.8 to 41.9	41.90	CR123C400B	**3HYV3**
—	—	42.0 to 43.2	43.20	CR123C440B	**3HYV5**
—	—	43.3 to 45.0	45.00	CR123C460B	**3HYV6**
0.43	0.45	—	—	CR123C054A	**3HYP3**
0.48	0.49	—	—	CR123C060A	**3HYP4**
0.53	0.53	—	—	CR123C066A	**3HYP5**
0.58	0.59	—	—	CR123C071A	**3HYP6**
0.64	0.65	—	—	CR123C078A	**3HYP7**
0.74	0.76	—	—	CR123C087A	**3HYP8**
0.84	0.84	—	—	CR123C097A	**3HYP9**
0.92	0.93	—	—	CR123C109A	**3HYR2**
1.02	1.04	—	—	CR123C118A	**3HYR4**
1.10	1.15	—	—	CR123C131A	**3HYR6**
1.23	1.27	—	—	CR123C148A	**3HYR8**
1.38	1.39	—	—	CR123C163A	**3HYT1**
1.49	1.55	—	—	CR123C184A	**3HYT4**
1.67	1.73	—	—	CR123C196A	**3HYT5**
1.79	1.89	—	—	CR123C220A	**3HYT8**
1.98	2.05	—	—	CR123C239A	**3HYU1**
2.24	2.28	—	—	CR123C268A	**3HYU3**
2.43	2.47	—	—	CR123C301A	**3HYU5**
2.75	2.79	—	—	CR123C326A	**3HYU7**
3.20	3.31	—	—	CR123C356A	**3HYU9**
3.43	3.70	—	—	CR123C379A	**3HYV2**
4.03	4.06	—	—	CR123C419A	**3HYV4**
4.43	4.47	—	—	CR123C466A	**3HYV7**
4.94	4.95	—	—	CR123C526A	**3HYV8**
5.36	5.49	—	—	CR123C592A	**3HYV9**

Electrically Held Type L



Electrically Held Type S

Mechanically Held Type LX

Multipole Lighting Contactors

SQUARE D by Schneider Electric

Open-type contactors have 120V coils operable on 50 Hz at 110V, 277V at 60 Hz. UL Listed and CSA Certified.

ELECTRICALLY HELD TYPE L AND MECHANICALLY HELD TYPE LX

Field-convertible contacts have normally open and normally closed indicators. Max. 8 normally closed contacts. Silver cadmium oxide double-break contacts.

ELECTRICALLY HELD TYPE S

Feature mixed load ratings (lighting and motors), factory-wired controls, and clearly marked termination points.

No. of Poles	Full Load Amps	▶CHOOSE: Coil Volts	H	W	D	Mfr. Model	Item No.
Electrically Held Type L							
2	30 A		5.0 in	2.88 in	3.12 in	8903LO20	**H5201**
3	30 A		5.0 in	2.88 in	3.12 in	8903LO30	**H5202**
4	30 A		5.0 in	2.88 in	3.12 in	8903LO40	**H5203**
6	30 A	120V AC 277V AC	5.0 in	4.25 in	3.12 in	8903LO60	**H5204**
8	30 A		5.0 in	5.63 in	3.12 in	8903LO80	**H5205**
10	30 A		5.0 in	5.63 in	3.12 in	8903LO1000	**H5206**
12	30 A		5.0 in	5.63 in	3.12 in	8903LO1200	**H5207**
Electrically Held Type S							
2	30 A		4.34 in	3.22 in	4.22 in	8903SMO1	**H5212**
2	60 A		5.33 in	4.31 in	4.94 in	8903SPO1	**H5213**
2	100 A		7.09 in	5.45 in	6.5 in	8903SQO1	**H5214**
3	30 A		4.34 in	3.22 in	4.22 in	8903SMO2	**H5215**
3	60 A	120V AC 277V AC	5.33 in	4.31 in	4.94 in	8903SPO2	**H5216**
3	100 A		7.09 in	5.45 in	6.5 in	8903SQO2	**H5217**
4	30 A		4.34 in	4.25 in	4.22 in	8903SMO3	**H5218**
4	60 A		6.22 in	5.61 in	4.94 in	8903SPO3	**H5219**
4	100 A		7.26 in	9.75 in	6.5 in	8903SQO3	**H5220**
Mechanically Held Type LX							
4	30 A		8.81 in	2.88 in	3.25 in	8903LXO40	**H5208**
6	30 A	120V AC 277V AC	8.81 in	4.25 in	3.25 in	8903LXO60	**H5209**
8	30 A		8.81 in	5.63 in	3.25 in	8903LXO80	**H5210**
12	30 A		8.81 in	5.63 in	3.25 in	8903LXO1200	**H5211**
Replacement Coils, 120V AC							
L Electrically Held			—	—	—	9998L44	**2FK33**
SM/SP Electrically Held Unlatch		120V AC	—	—	—	2959S13W30B	**2FJ89**
LX Mechanically Held Unlatch			—	—	—	9998LX44	**2FK39**

Open 4-Pole H5222

Enclosed 12-Pole H5432

Lighting Contactors

- Rated 30A inductive and resistive
- 7.4"H x 4.2"W x 3.9"D
- Electrically held

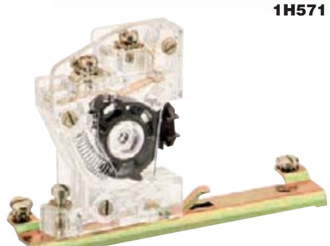
Design allows additional power poles to be added to a max. of six 1- or 2-pole blocks. Poles are supplied in the NO position on contactor. Up to 4 power pole blocks are field convertible to NC. UL Listed. Mechanically held contactors have built-in control module delays to minimize excessive operation from faulty control devices.

No. of Poles	▶CHOOSE: Coil Volts	Mfr. Model	NO ENCLOSURE Item No.	NEMA 1 Item No.
2		CR463L20A	**H5221**	**H5427**
4		CR463L40A	**H5222**	**H5428**
6	120V AC 277V AC	CR463L60A	**H5223**	**H5429**
8		CR463L80A	**H5224**	**H5430**
10		CR463LB0A	**H5225**	**H5431**
12		CR463LD0A	**H5226**	**H5432**

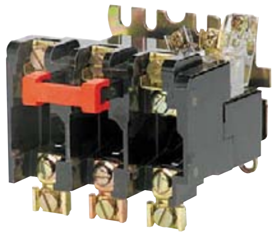
Type	Mfr. Model	Item No.
Power Poles, 30A		
	CR460XP31	**3HXY2**
2 Pole	CR460XP32	**3HXY3**
Auxiliary Contacts		
1	CR460XB1	**3HWN7**
2	CR460XB2	**3HWN8**

Type	Mfr. Model	Item No.
Enclosure		
NEMA 1	CR460XE1B	**3HXZ5**
Coil Kit		
115 to 120V	CR460XCJ	**3HYN8**
277V	CR460XCN	**3HYN9**

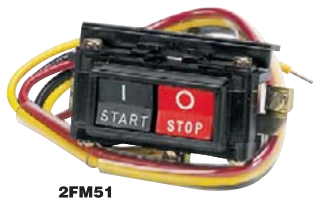
1H571



1H591



2BZ24



2FM51

SQUARE D by Schneider Electric

NEMA Motor Starter and Contactor Accessories and Replacement Parts

Description	Mfr. Model	Item No.
Contact Kits, Includes Movable and Stationary Contacts		
3-Pole, Fits Size 00	9998SJ1	**1H567**
3-Pole, Fits Size 0	9998SL2	**1H569**
3-Pole, Fits Size 1	9998SL3	**1H570**
3-Pole, Fits Size 2	9998SL4	**1H571**
3-Pole, Fits Size 3	9998SL7	**1H572**
3-Pole, Fits Size 4	9998SL9	**1H573**
3-Pole, Fits Size 5	9998SL11	**1H568**
Auxiliary Contacts		
1 NO, Fits Sizes 00 to 5	9999SX6	**1H591**
1 NC, Fits Sizes 00 to 5	9999SX7	**1H592**
1 NO/1 NC, Fits Sizes 00 to 5	9999SX8	**1H593**
Internal Nonconvertible Contacts		
1 NO, Fits Sizes 00 to 2	9999SX11	**1H589**
1 NC, Fits Sizes 00 to 2	9999SX12	**1H590**
Transient Suppression Modules, RC Circuit Suppresses Coil Transients up to Approx. 240V		
For Type S 120V Coils Only, Fits Sizes 00 to 2	9999ST1	**1H587**
For Type S 120V Coils Only, Fits Sizes 3 to 5	9999ST2	**1H588**
Separately Mounted Overload Relay, Melting Alloy Design with Trip-Free Reset		
3-Pole, Fits Sizes 00 to 1, 25A Max.	9065SEO5	**2BZ24**
Replacement Overload Relays for Class 8536 Starters		
3-Pole, Fits Sizes 00 to 1	9065SDO5	**2FK24**
3-Pole, Fits Size 2	9065SDO8	**2FK25**
External Overload Reset Mechanism		
NEMA 1 or 12, Fits Sizes 0 to 4 and Enclosures up to 9¼" D	9066RA1	**2CF48**
Control Circuit Fuse Holders, 600V Max.		
Two, Series KTK Fuse, Fits All Sizes	9999SF4	**1H578**
Push-Button Kits		
Start/Stop, NEMA 1, Fits Sizes 00 to 3	9999SA2	**2FM51**
Start/Stop, NEMA 1/3R/12, Fits Sizes 00 to 7	9999SA3	**1H574**
On/Off, NEMA 1, Fits Sizes 00 to 4	9999SA10	**2CC02**
Hand/Off/Auto Selector Switches		
NEMA 1, Fits Sizes 00 to 3	9999SC2	**1H575**
NEMA 1/3R/4/12, Fits All Sizes	9999SC8	**1H576**
On/Off Selector Switch		
NEMA 1, Fits Sizes 00 to 4	9999SC22	**2CC08**
Red Pilot Lights, 600V Max.		
NEMA 1, Fits Sizes 00 to 1 and 1P	9999SP2R	**1H583**
Red Pilot Light, 120VAC		
NEMA 3R/12, Fits Sizes 0 to 7	9999SP28R	**1H582**
Motor Logic™ Accessories (Type 9065)		
Remote Reset, Fits Sizes 0 to 4, 120VAC Signal up to 150 ft.	9999RR04	**5F596**
Isolated Auxiliary Contact, Fits Sizes 0 to 7, NO or NC, A600 Rated	9999AC04	**5F592**
Lug Extender Kit, Fits Sizes 0 to 1	9999LB0	**5F594**

21AM81

SQUARE D by Schneider Electric

Motor Logic™ Overload Relays

- 3-phase, 60/50 Hz, 600VAC
- 3:1 current adjustment range
- Class 10/20 selectable thermal protection

Heaterless construction with adjustable full-load amps. Relays are protected against phase loss and phase imbalance. Mount separately or use to retrofit an existing Square D Type S starter. Select overload relay by full load amp current range.

NEMA Size	Current Range	Mfr. Model	Item No.
For Retrofit of Square D Type S Motor Starters or Separate Mounting			
00B	1.5 to 4.5A	9065SFB20	**21TV77**
00C	3.0 to 9.0A	9065SFC20	**21TV78**
0	6.0 to 18.0A	9065SF020	**21AM84**
1	9.0 to 27.0A	9065SF120	**21AM85**
2	15.0 to 45.0A	9065SF220	**21AM86**
3	30.0 to 90.0A	9065SF320	**21AM87**
4	45.0 to 135.0A	9065SF420	**21TV76**
For Retrofit of Square D Type S Motor Starters			
2	15.0 to 45.0A	9065ST220	**21AM81**
3	30.0 to 90.0A	9065ST320	**21AM82**
4	45.0 to 135.0A	9065ST420	**21AM83**

1H424

Replacement Magnetic Coils

SQUARE D by Schneider Electric

Starter Size	For Use With	Mfr. Model	24V AC Item No.	120V AC Item No.	208V AC Item No.	240V AC Item No.	480V AC Item No.
00, 1	SA Series A, SB, SC, SM	31041400	**1H423**	—	**1H425**	**1H426**	**1H427**
0, 00, 1	SA Series A, SB, SC, SM	31041400	—	**1H424**	—	—	—
2	SD and SP	31063409	—	**1H431**	**1H432**	**1H433**	**1H434**
3	SE and SQ	31074400	—	**5B609**	—	—	**1H439**
3, 4	SE, SF, and SV	31091400	—	**1H441**	—	—	—
5	SG and SX	31096400	—	**1H446**	—	—	**1H449**
00	SA Series B	9998SAC	—	—	**1H563**	—	**1H565**
4	SE, SF, and SV	31091400	—	—	**1H442**	**2MNG8**	—

Open, Nonreversing

Open, Reversing

Enclosed NEMA 1

Enclosed NEMA 3R

Enclosed NEMA 4/4X

Enclosed NEMA 12

EATON

NEMA Motor Starters

- Eaton Freedom Series NEMA starter with C440 electronic overload
- Selectable Trip Class 10A, 10, 20 or 30
- 3-pole with 1NO aux. contact

UL Listed and CSA Certified. Accessories and replacement parts are available on Grainger.com®.

NEMA Size	Overload Relay Amp Setting	▶CHOOSE: Coil Volts	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 3R Item No.	NONREVERSING NEMA 4X Item No.	NONREVERSING NEMA 12 Item No.	REVERSING NO ENCLOSURE Item No.
00	0.33 to 1.65A	24V AC 120V AC 208V AC 240V AC 480V AC	**J0884**	**J0901**	**J0905**	**J0909**	**J0913**	**J0893**
00	1 to 5A		**H0472**	**H0484**	**J0906**	**H0498**	**H0505**	**H0478**
00	4 to 20A		**J0883**	**J0902**	**H0491**	**J0910**	**J0914**	**J0892**
0	0.33 to 1.65A		**J0886**	—	—	—	—	**J0895**
0	1 to 5A		**J0885**	**J0903**	**J0907**	**J0911**	**J0915**	**J0894**
0	4 to 20A		**H0473**	**H0485**	**H0492**	**H0499**	**H0506**	**H0479**
1	0.33 to 1.65A		**J0889**	—	—	—	—	**J0898**
1	1 to 5A		**J0887**	—	—	—	—	**J0896**
1	4 to 20A		**H0474**	**H0486**	**H0493**	**J0912**	**H0507**	**J0897**
1	9 to 45A		**J0888**	**J0904**	**J0908**	**H0500**	**J0916**	**H0480**
2	1 to 5A		**J0890**	—	—	—	—	**J0899**
2	4 to 20A		**J0891**	—	—	—	—	**J0900**
2	9 to 45A		**H0475**	**H0487**	**H0494**	**H0501**	**H0508**	**H0481**
3	20 to 100A		**H0476**	**H0488**	**H0495**	**H0502**	**H0509**	**H0482**
4	30 to 150A		**H3831**	**H0489**	**H0496**	**H0503**	**H0510**	**H3832**
5	60 to 300A		**H0477**	**H0490**	**H0497**	**H0504**	**H0511**	**H0483**

Open, Nonreversing

Open, Reversing

Enclosed NEMA 1

Enclosed NEMA 4/4X

Enclosed NEMA 12

SIEMENS

NEMA Motor Starters

- 600 VAC
- Selectable Trip Class 5, 10, 20 or 30
- 3-pole with 1NO aux. contact

UL Listed and CSA Certified.

NEMA Size	Overload Relay Amp Setting	▶CHOOSE: Coil Volts*	NONREVERSING NO ENCLOSURE Item No.	NONREVERSING NEMA 1 Item No.	NONREVERSING NEMA 4, 4X Item No.	NONREVERSING NEMA 12 Item No.	REVERSING NO ENCLOSURE Item No.
00	0.25 to 1A	24VAC 120 to 240VAC 120VAC 208VAC 240VAC 480VAC	**J0917**	**J0926**	—	—	**H3838**
00	0.75 to 3.4A		**J0918**	**J0927**	—	—	**J0954**
00	3 to 12A		**H0526**	**H0535**	—	—	**J0955**
0	0.25 to 1A		**J0919**	**J0928**	**J0943**	**J0935**	**J0951**
0	0.75 to 3.4A		**H0527**	**J0929**	**J0944**	**J0936**	**J0952**
0	3 to 12A		**J0920**	**H0536**	**H3776**	**H3767**	**J0953**
0	5.50 to 22A		**J0921**	**J0930**	**J0945**	**J0937**	**H3837**
1	0.25 to 1A		**J0922**	**J0931**	**J0946**	**J0938**	**J0956**
1	0.75 to 3.4A		**J0923**	**J0932**	**J0947**	**J0939**	**J0957**
1	3 to 12A		**J0924**	**J0933**	**J0948**	**J0940**	**J0958**
1	5.50 to 22A		**H0528**	**J0934**	**J0949**	**J0941**	**J0959**
1	10 to 40A		**J0925**	**H0537**	**J0950**	**J0942**	**H3839**
1¾	10 to 40A		**H0529**	**H0538**	**H3778**	**H3769**	**H3840**
2	13 to 52A		**H0530**	**H0539**	**H3779**	**H3770**	**H3841**
2½	25 to 100A		**H0531**	**H0540**	**H3780**	**H3771**	**H3842**
3	25 to 100A		**H0532**	**H0541**	**H3781**	**H3772**	**H3843**
3½	50 to 200A		**H0533**	**H0542**	**H3782**	**H3773**	**H3844**
4	50 to 200A		**H0534**	**H0543**	**H3783**	**H3774**	**H3845**
5	55 to 250A		—	**H3766** †	—	**H3775** †	—

** 24VAC coils only available on enclosed versions. † Dual voltage coils not available in NEMA Size 5.*

Enclosure NEMA Rating	NEMA Size M-0 1 hp HP @ 120VAC, 2 hp HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1 2 hp HP @ 120VAC, 3 hp HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1P 3 hp HP @ 120VAC, 5 hp HP @ 230VAC Thermal Unit Code	Mfr. Model	Item No.
1-Phase, 2 Pole									
No Enclosure	J1	2510MBO1	**2BW14**	—	—	—	L1	2510MCO2	**2PYE2**
1	J2	2510MBG1	**1H411**	K2	2510MCG1	**1H415**	L2	2510MCG2	**1H416**
12	J2	2510MBA1	**2BW07**	K2	2510MCA1	**2BW22**	L2	2510MCA2	**2BW23**
4, 4X	J2	2510MBW1	**2PYD9**	—	—	—	L2	2510MCW2	**2PYE8**
1-Phase, 2 Pole, Stainless Steel Enclosure									
4, 4X	J2	2510MBW11	**2BW20**	K2	2510MCW11	**2PYE6**	—	—	—

Enclosure NEMA Rating	NEMA Size M-0 3 hp HP @ 240VAC, 5 hp HP @ 480VAC Thermal Unit Code	Mfr. Model	Item No.	NEMA Size M-1 7 ½ hp HP @ 240VAC, 10 hp HP @ 480VAC Thermal Unit Code	Mfr. Model	Item No.
3-Phase, 3 Pole						
No Enclosure	M1	2510MBO2	**1H413**	N1	2510MCO3	**2BW31**
1	M2	2510MBG2	**1H412**	N2	2510MCG3	**1H417**
12	M2	2510MBA2	**1H410**	N2	2510MCA3	**2BW25**
4, 4X	M2	2510MBW2	**1H414** *	N2	2510MCW3	**2BW36** *
7, 9	M2	2510MBR2	**2BW18**	N2	2510MCR3	**2PYE5**
3-Phase, 3 Pole, Stainless Steel Enclosure						
4, 4X	M2	2510MBW12	**2BW21**	N2	2510MCW13	**2BW35**

Description	Mfr. Model	Item No.
Internal Lever for use with Type M Integral HP in NEMA 4, 4X, 7, 9, and 12 Enclosures	9998IL1	**1H418**
Replacement Contacts For 2- or 3-Pole M-0	9998ML1	**1H559**
Replacement Contacts For 2- or 3-Pole M-1 and M-1P	9998ML2	**1H560**

** Toggle switch operator.*

Open 1H413

NEMA 12 1H410

NEMA 4X 1H414

NEMA Manual Motor Starters

SQUARE D by Schneider Electric

- 600VAC max.; 250VDC max.
- Required thermal units sold separately, see page 166
- Auxiliary contacts 1H589 and 1H590 available on page 163

Push-button motor starters provide On/Off operation and overload protection for small 1-phase, 3-phase, or DC motors. For use on small machine tools, pumps, fans, and conveyors. UL Listed.

Note: NEMA Type 12 enclosures can be converted for 3R outdoor use by drilling two ⅛" holes in the bottom.

EATON

Manual Motor Starters

NEMA manual starters provide control and overload protection to single- and 3-phase motors. Feature straight-through wiring and field-mounted auxiliary contacts. Come standard with a lockout device to lock motor in Off position. NEMA rated 1, 4, 7, 9, and 12.

11Z488

11Z490

11Z492

11Z496

12M046

NEMA Size	HP @ 3-Phase 240V	HP @ 3-Phase 480V	No Enclosure Mfr. Model	Item No.	NEMA 1 Mfr. Model	Item No.	NEMA 4 Mfr. Model	Item No.	NEMA 7D, 9E, 9F, 9G Mfr. Model	Item No.	NEMA 12 Mfr. Model	Item No.
Toggle Operator												
M-0	2 hp	5 hp	B100M0C	**11Z488**	B100S0C	**11Z490**	B100W0C	**11Z492**	B100U0C	**11Z494**	B100J0C	**11Z496**
M-1	3 hp	10 hp	B100M1C	**11Z489**	B100S1C	**11Z491**	B100W1C	**11Z493**	B100U1C	**11Z495**	B100J1C	**11Z497**
Push Button Operator												
M-0	2 hp	5 hp	B100M0CA	**12M044**	B100S0CA	**12M046**	—	—	—	—	—	—
M-1	3 hp	10 hp	B100M1CA	**12M045**	B100S1CA	**12M047**	—	—	—	—	—	—

Description	Mfr. Model	Item No.
Accessories		
Auxiliary Contact, 1NO	B1A	**12M048**
Auxiliary Contact, 1NC	B1B	**12M049**
Red Pilot Light, 120VAC	LK-21	**12M050**
Red Pilot Light, 208-240VAC	LK-22	**12M051**
Red Pilot Light, 480-600VAC	LK-26	**12M052**

Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.
Thermal Units			1.05 to 1.14	FH16	**12M066**	4.04 to 4.40	FH30	**12M080**	13.60 to 14.90	FH44	**12M094**
0.28 to 0.29	FH03	**12M053**	1.15 to 1.25	FH17	**12M067**	4.41 to 4.81	FH31	**12M081**	15.00 to 16.00	FH45	**12M095**
0.30 to 0.33	FH04	**12M054**	1.26 to 1.39	FH18	**12M068**	4.82 to 5.26	FH32	**12M082**	16.10 to 17.10	FH46	**12M096**
0.34 to 0.36	FH05	**12M055**	1.40 to 1.54	FH19	**12M069**	5.27 to 5.74	FH33	**12M083**	17.20 to 18.30	FH47	**12M097**
0.37 to 0.40	FH06	**12M056**	1.55 to 1.71	FH20	**12M070**	5.75 to 6.26	FH34	**12M084**	18.40 to 19.70	FH48	**12M098**
0.41 to 0.45	FH07	**12M057**	1.72 to 1.89	FH21	**12M071**	6.27 to 6.83	FH35	**12M085**	19.80 to 21.20	FH49	**12M099**
0.46 to 0.50	FH08	**12M058**	1.90 to 2.10	FH22	**12M072**	6.84 to 7.45	FH36	**12M086**	21.30 to 22.80	FH50	**12M101**
0.51 to 0.56	FH09	**12M059**	2.11 to 2.32	FH23	**12M073**	7.46 to 8.11	FH37	**12M087**	22.90 to 24.50	FH51	**12M102**
0.57 to 0.63	FH10	**12M060**	2.33 to 2.54	FH24	**12M074**	8.12 to 8.81	FH38	**12M088**	24.60 to 26.40	FH52	**12M103**
0.64 to 0.70	FH11	**12M061**	2.55 to 2.79	FH25	**12M075**	8.82 to 9.58	FH39	**12M089**	26.50 to 28.50	FH53	**12M104**
0.71 to 0.78	FH12	**12M062**	2.80 to 3.07	FH26	**12M076**	9.59 to 10.40	FH40	**12M090**	28.60 to 30.80	FH54	**12M105**
0.79 to 0.86	FH13	**12M063**	3.08 to 3.36	FH27	**12M077**	10.41 to 11.30	FH41	**12M091**	30.90 to 33.30	FH55	**12M106**
0.87 to 0.95	FH14	**12M064**	3.37 to 3.68	FH28	**12M078**	11.40 to 12.20	FH42	**12M092**	33.40 to 36.00	FH56	**12M107**
0.96 to 1.04	FH15	**12M065**	3.69 to 4.03	FH29	**12M079**	12.30 to 13.50	FH43	**12M093**	36.10 to 38.90	FH57	**12M108**

NEMA Fractional Horsepower Manual Starters

SQUARE D by Schneider Electric

- 1-pole 277VAC max.; 2-pole 277VAC/230VDC max.
- Required thermal units sold separately

Provide overload protection and manual On/Off control for small motors. Toggle-operated fractional HP starter for single-phase motors up to 1 HP. 2-pole starters can also be used with DC motors to ¾ HP. Manual reset.

Binder head screw terminals are suitable for #10 or smaller copper wire and are accessible from the front. For use in fans, conveyors, pumps, and small machine tools.

1H385

Amps AC	Enclosure NEMA Rating	Operator	Pilot Light	Description/ Special Features	H	W	D	1-POLE Mfr. Model	Item No.	2-POLE Mfr. Model	Item No.
Manual Motor Starter											
16 A	1	Toggle	No	—	2.75 in	4.25 in	2.44 in	2510FG1	**1H385**	2510FG2	**1H387**
16 A	1	Toggle	Red: On	—	2.75 in	4.25 in	2.44 in	2510FG1P	**1H386**	2510FG2P	**1H388**
16 A	No Enclosure	Toggle	No	Stainless Steel Flush Plate	2.34 in	4.12 in	1.06 in	2510FS1	**1H396**	2510FS2	**1H397**
16 A	No Enclosure	Toggle	No	—	4.12 in	1.69 in	1.59 in	2510FO1	**1H392**	2510FO2	**1H393**
16 A	1	Toggle	No	Handle Guard Lock-Off	2.88 in	4.25 in	2.44 in	2510FG5	**1H389**	2510FG6	**1H390**
16 A	4	Rocker	No	Handle Guard Lock-Off	4.56 in	4.25 in	2.75 in	2510FW1	**1H398**	2510FW2	**1H399**
16 A	7, 9	Rocker	No	Handle Guard Lock-Off	4.38 in	6.38 in	3.94 in	2510FR1	**1H394**	2510FR2	**1H395**

Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.	Full Load Amps	Mfr. Model	Item No.
Thermal Units, 1 Required			1.30 to 1.37	A1.54	**5B631**	3.07 to 3.45	A4.32	**5B652**	8.16 to 8.98	A11.9	**5B637**
0.41 to 0.44	A.49	**5B619**	1.38 to 1.47	A1.63	**5B632**	3.46 to 3.70	A4.79	**5B653**	8.99 to 9.67	A13.2	**5B638**
0.50 to 0.53	A.59	**5B621**	1.48 to 1.56	A1.75	**5B633**	3.71 to 4.07	A5.30	**5B654**	9.68 to 9.95	A14.1	**5B639**
0.59 to 0.65	A.71	**5B623**	1.57 to 1.65	A1.86	**5B634**	4.08 to 4.32	A5.78	**5B655**	9.96 to 10.80	A14.8	**5B640**
0.66 to 0.71	A.78	**5B624**	1.66 to 1.79	A1.99	**5B635**	4.33 to 4.90	A6.20	**5B656**	10.90 to 12.10	A16.2	**5B641**
0.72 to 0.78	A.86	**5B625**	1.80 to 1.95	A2.15	**5B644**	4.91 to 5.35	A6.99	**5B657**	12.20 to 13.10	A17.9	**5B642**
0.79 to 0.85	A.95	**5B626**	1.96 to 2.15	A2.31	**5B645**	5.36 to 5.85	A7.65	**5B658**	13.20 to 13.90	A19.8	**5B643**
0.86 to 0.96	A1.02	**5B627**	2.16 to 2.38	A2.57	**5B646**	5.86 to 6.41	A8.38	**5B659**	14.00 to 15.00	A21.3	**5B648**
0.97 to 1.04	A1.16	**5B628**	2.39 to 2.75	A2.81	**5B647**	6.42 to 6.79	A9.25	**5B660**	15.10 to 16.00	A25.2	**5B649**
1.05 to 1.16	A1.25	**5B629**	2.76 to 2.84	A3.61	**5B650**	6.80 to 7.57	A9.85	**5B661**			
1.17 to 1.29	A1.39	**5B630**	2.85 to 3.06	A3.95	**5B651**	7.58 to 8.15	A11.0	**5B636**			

Thermal Unit Selection Guidelines

All thermal unit specifications are based on the motor and controller being operated in an ambient temp. of 40°C (104°F) or less.

A Regular Enclosure is defined as the standard-size enclosure that is included with an "enclosed" starter. The Large Enclosure column should be used when the starter is being installed in an oversized control panel or cabinet.

1. Determine motor full load current (amperage) rating and service factor.

2. Motor and controller in same ambient temp.:

For 1.15 to 1.25 service factor motors, use 100% of motor full load current for thermal unit selection. For 1.0 service factor motors, use 90% of motor full load current for thermal unit selection.

3. Motor and controller in different ambient temp.:

If motor ambient temp. is 18°F higher than motor starter's ambient temp., derate full load current value from step 2 by an additional 10%. If motor ambient temp. is 18°F lower than motor starter's ambient temp., increase full load current value from step 2 by an additional 5%. Use the resultant full load current value for thermal unit selection.

4. Locate the proper thermal unit selection column using the thermal unit code associated with the motor starter.

5. Match motor full load amperage to the closest thermal unit code without going over.

6. Do not exceed amp rating of motor starter.

7. 1-phase starters require 1 thermal unit. 3-phase starters require 3 thermal units.

1H600

1H669

SQUARE D by Schneider Electric

Thermal Units for NEMA Motor Starters

- 1-phase starters require 1 thermal unit
- 3-phase starters require 3 thermal units

THERMAL UNIT CODES

1-Phase Class 8536 Regular Enclosure			1-Phase Class 8536 Large Enclosure		3-Phase Class 8536 Regular Enclosure		3-Phase Class 8536 Large Enclosure		1-Phase Class 8911 Regular Enclosure			3-Phase Class 8911 Regular Enclosure			3-Phase Class 8911 Large Enclosure			1-Phase Class 2510M Regular Enclosure			1-Phase Class 2510M Large Enclosure			3-Phase Class 2510M Regular Enclosure		3-Phase Class 2510M Large Enclosure		Mfr.	Item
A1-A3	A4	A5	B1-B3	B4	C1-C3	C4	D1-D3	D4	E1-E3	E4	E5	F1-F3	F4	F5	G1-G3	G4	G5	J2	K2	L2	J1	K1	L1	M2	N2	M1	N1	Model	No.
0.31	—	—	0.33	—	0.30	—	0.31	—	—	—	—	—	—	—	—	—	—	0.36	0.36	0.36	0.38	0.38	0.38	0.32	0.32	0.32	0.32	B0.44	**1H594**
0.34	—	—	0.36	—	0.34	—	0.36	—	—	—	—	—	—	—	—	—	—	0.40	0.40	0.40	0.43	0.43	0.43	0.36	0.36	0.37	0.37	B0.51	**1H595**
0.38	—	—	0.40	—	0.37	—	0.38	—	—	—	—	—	—	—	—	—	—	0.45	0.45	0.45	0.48	0.48	0.48	0.39	0.39	0.39	0.39	B0.57	**1H596**
0.45	—	—	0.48	—	0.44	—	0.46	—	—	—	—	—	—	—	—	—	—	0.52	0.52	0.52	0.56	0.56	0.56	0.47	0.47	0.48	0.48	B0.63	**1H597**
0.54	—	—	0.57	—	0.53	—	0.55	—	—	—	—	—	—	—	—	—	—	0.59	0.59	0.59	0.63	0.63	0.63	0.56	0.56	0.57	0.57	B0.71	**1H598**
0.61	—	—	0.64	—	0.59	—	0.61	—	—	—	—	—	—	—	—	—	—	0.66	0.66	0.66	0.71	0.71	0.71	0.63	0.63	0.64	0.64	B0.81	**1H599**
0.66	—	—	0.70	—	0.64	—	0.66	—	—	—	—	—	—	—	—	—	—	0.73	0.73	0.73	0.78	0.78	0.78	0.69	0.69	0.70	0.70	B0.92	**1H600**
0.73	—	—	0.77	—	0.72	—	0.75	—	—	—	—	—	—	—	—	—	—	0.81	0.81	0.81	0.88	0.88	0.88	0.77	0.77	0.78	0.78	B1.03	**1H601**
0.81	0.92	—	0.85	0.92	0.80	—	0.83	—	—	—	—	—	—	—	—	—	—	0.91	0.91	0.91	0.99	0.99	0.99	0.86	0.86	0.87	0.87	B1.16	**1H602**
0.94	1.07	—	0.99	1.07	0.90	—	0.93	—	0.88	1.11	—	0.95	1.02	—	0.98	1.04	—	1.02	1.02	1.02	1.15	1.15	1.15	0.96	0.96	0.98	0.98	B1.30	**1H603**
1.05	1.14	—	1.10	1.14	1.03	—	1.06	—	1.02	1.27	—	1.09	1.15	—	1.13	1.18	—	1.14	1.14	1.14	1.23	1.23	1.23	1.11	1.11	1.13	1.13	B1.45	**1H604**
1.22	1.26	—	1.28	1.26	1.14	—	1.18	—	1.19	1.36	—	1.21	1.27	—	1.26	1.33	—	1.29	1.29	1.29	1.43	1.43	1.43	1.23	1.23	1.25	1.25	B1.67	**1H605**
1.34	1.49	—	1.41	1.49	1.27	—	1.31	—	1.37	1.53	—	1.35	1.39	—	1.38	1.43	—	1.42	1.42	1.42	1.51	1.51	1.51	1.37	1.37	1.40	1.40	B1.88	**1H606**
1.51	1.73	—	1.58	1.73	1.43	—	1.47	—	1.62	1.78	—	1.56	1.61	—	1.62	1.67	—	1.64	1.64	1.64	1.75	1.75	1.75	1.55	1.55	1.58	1.58	B2.10	**1H614**
1.71	1.89	—	1.80	1.89	1.62	—	1.67	—	1.90	2.02	—	1.76	1.84	—	1.82	1.88	—	1.80	1.80	1.80	1.93	1.93	1.93	1.75	1.75	1.79	1.79	B2.40	**1H615**
1.93	2.16	—	2.03	2.16	1.77	—	1.83	—	2.12	2.20	—	1.94	2.03	—	2.04	2.09	—	2.10	2.10	2.10	2.25	2.25	2.25	1.92	1.92	1.91	1.91	B2.65	**1H616**
2.14	2.37	—	2.25	2.37	1.97	—	2.04	—	2.46	2.52	—	2.22	2.34	—	2.36	2.41	—	2.30	2.30	2.30	2.47	2.47	2.47	2.16	2.16	2.20	2.20	B3.00	**1H620**
2.40	2.66	—	2.51	2.66	2.32	—	2.38	—	2.83	2.94	—	2.57	2.69	—	2.72	2.79	—	2.61	2.61	2.61	2.81	2.81	2.81	2.50	2.50	2.55	2.55	B3.30	**1H621**
2.72	2.99	—	2.83	2.99	2.51	—	2.60	—	3.19	3.30	—	2.87	3.02	—	3.07	3.15	—	2.99	2.99	2.99	3.20	3.20	3.2	2.81	2.81	2.87	2.87	B3.70	**1H622**
3.15	3.40	—	3.29	3.40	2.99	—	3.13	—	3.61	3.70	—	3.21	3.39	—	3.44	3.54	—	3.37	3.37	3.37	3.63	3.63	3.63	3.16	3.16	3.24	3.24	B4.15	**1H625**
3.55	3.94	3.74	3.75	3.94	3.42	3.40	3.59	3.51	3.89	4.02	—	3.50	3.65	—	3.69	3.75	—	3.94	3.94	3.94	4.19	4.19	4.19	3.40	3.40	3.48	3.48	B4.85	**1H626**
4.00	4.15	4.23	4.22	4.15	3.75	3.76	3.94	3.89	4.32	4.46	4.22	3.79	4.04	3.89	4.11	4.11	4.09	4.24	4.24	4.24	4.53	4.53	4.53	3.76	3.76	3.85	3.85	B5.50	**1H629**
4.40	4.49	4.68	4.65	4.49	3.98	4.00	4.19	4.14	4.57	4.69	4.49	4.04	4.28	4.15	4.34	4.46	4.35	4.54	4.54	4.54	4.89	4.89	4.89	4	4.00	4.10	4.10	B6.25	**1H632**
4.88	5.15	5.22	5.16	5.15	4.48	4.57	4.72	4.73	5.19	5.37	5.14	4.53	4.85	4.76	4.89	5.09	5.07	5.29	5.29	5.29	5.68	5.68	5.68	4.68	4.68	4.79	4.79	B6.90	**1H633**
5.19	5.77	5.67	5.53	5.77	4.93	5.03	5.21	5.22	5.79	5.94	5.78	5.03	5.38	5.30	5.44	5.61	5.79	5.73	5.73	5.73	6.27	6.27	6.27	5.18	5.18	5.31	5.31	B7.70	**1H635**
5.73	6.61	6.13	6.09	6.61	5.21	5.32	5.51	5.53	6.16	6.34	6.23	5.36	5.71	5.70	5.80	5.99	6.27	6.35	6.35	6.35	6.85	6.85	6.85	5.51	5.51	5.65	5.65	B8.20	**1H638**
6.39	7.14	6.91	6.80	7.14	5.84	5.97	6.17	6.21	6.94	7.09	7.03	5.97	6.39	6.46	6.47	6.70	7.16	7.08	7.08	7.08	7.73	7.73	7.73	6.19	6.19	6.35	6.35	B9.10	**1H640**
7.13	7.97	7.70	7.60	7.97	6.67	6.88	7.07	7.17	7.99	8.46	8.23	6.89	7.53	7.65	7.45	8.19	8.58	7.83	7.83	7.83	8.50	8.50	8.5	7.12	7.12	7.31	7.31	B10.2	**1H607**
7.90	8.15	8.56	8.35	8.15	7.54	7.82	8.05	8.19	8.99	9.32	9.31	7.79	8.34	8.55	8.49	8.79	9.55	8.47	8.47	8.47	9.29	9.29	9.29	8.15	8.15	8.34	8.34	B11.5	**1H608**
8.55	9.32	9.39	9.04	9.32	8.14	8.47	8.69	8.90	9.98	10.2	10.1	8.53	9.14	9.36	9.29	9.66	10.2	9.83	9.83	9.83	10.4	10.4	10.4	8.60	8.60	8.84	8.84	B12.8	**1H609**
9.53	9.97	10.4	9.99	9.97	8.72	9.15	9.32	9.47	10.6	10.9	10.7	9.09	9.74	9.90	9.99	10.2	10.9	10.5	10.5	10.5	11.3	11.3	11.3	9.21	9.21	9.47	9.47	B14.0	**1H610**
10.6	10.7	11.6	11.1	10.7	9.66	10.1	10.20	10.60	11.6	12.1	11.9	9.99	10.7	10.9	10.8	11.4	11.9	11.4	11.4	11.4	12.3	12.3	12.3	10.1	10.1	10.4	10.4	B15.5	**1H611**
11.8	12.0	12.9	12.3	12.0	10.50	11.2	11.30	11.80	13.1	13.4	13.1	10.9	11.8	12.0	12.1	12.6	13.1	12.8	12.8	12.8	13.9	13.9	13.9	11.2	11.2	11.5	11.5	B17.5	**1H612**
13.2	13.9	14.6	13.7	13.9	11.30	12.0	12.10	12.70	14.2	14.2	13.9	11.7	12.2	12.8	13.1	13.5	14.0	13.9	13.9	13.9	15.0	15	15	12	12.1	12.0	12.4	B19.5	**1H613**
14.9	15.7	16.5	15.4	15.7	12.00	13.6	13.70	14.40	15.4	16.0	15.9	13.4	14.4	14.2	14.6	15.1	14.8	16.1	16.0	16.0	18.0	17.4	17.4	—	13.6	—	14.0	B22.0	**1H617**
16.6	18.4	18.5	18.0	18.4	14.10	15.2	15.20	16.10	17.6	18.1	18.0	15.4	16.4	16.0	16.4	17.2	17.0	18.0	17.6	17.6	—	19.2	19.2	—	15.3	—	15.8	B25.0	**1H618**
18.9	21.6	21.0	19.4	21.6	15.90	17.1	17.20	18.20	20.0	20.5	20.8	17.9	18.9	18.5	18.9	19.9	19.6	—	20.6	20.6	—	22	22.0	—	17.3	—	17.8	B28.0	**1H619**
21.2	24.0	23.6	21.7	24.0	17.50	19.0	18.90	20.20	22.7	23.5	23.1	20.2	21.3	21.2	20.9	22.5	22.1	—	23.1	23.1	—	24.6	24.6	—	19.1	—	19.7	B32.0	**1H623**
23.0	28.6	26.3	23.9	28.6	19.70	21.5	21.40	22.80	26.1	27.2	26.9	23.2	23.3	24.9	24.1	26.2	26.0	—	26.0	27.1	—	26	29.1	—	21.7	—	22.4	B36.0	**1H624**
25.5	30.7	29.3	26.0	30.7	21.90	24.1	23.70	25.60	29.6	30.8	31.4	25.8	27.9	28.0	27.2	29.9	29.4	—	—	29.2	—	—	31.7	—	24.2	—	25.1	B40.0	**1H627**
26.0	33.5	35.1	—	33.5	24.40	27.0	26.00	28.80	30.0	35.0	36.0	28.6	31.4	31.7	30.0	34.0	34.0	—	—	33.0	—	—	36.0	—	26.0	—	26.0	B45.0	**1H628**
—	36.0	36.1	—	36.0	26.00	28.7	—	30.60	—	37.2	38.8	29.7	32.5	34.6	—	36.2	36.4	—	—	36.0	—	—	—	—	—	—	—	B50.0	**1H630**
—	—	39.1	—	—	—	30.4	—	32.40	—	40.0	41.7	30.0	36.5	37.4	—	38.7	39.2	—	—	—	—	—	—	—	—	—	—	B56.0	**1H631**
—	—	41.5	—	—	—	32.2	—	34.60	—	—	46.3	—	40.0	40.0	—	40.0	42.4	—	—	—	—	—	—	—	—	—	—	B62.0	**1H634**
—	—	45.00	—	—	—	35.4	—	38.60	—	—	50.0	—	—	46.4	—	—	49.3	—	—	—	—	—	—	—	—	—	—	B70.0	**1H636**
—	—	—	—	—	—	38.2	—	45.00	—	—	—	—	—	50.0	—	—	50.0	—	—	—	—	—	—	—	—	—	—	B79.0	**1H637**
—	—	—	—	—	—	45.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	B88.0	**1H639**

3-Phase Class 8536 Regular Enclosure Code C5	Regular Enclosure Code C6	Large Enclosure Code D5	Large Enclosure Code D6	Mfr. Model	Item No.
24.5	—	26.1	—	CC36.4	**1H659**
26.3	—	28.1	—	CC39.6	**1H660**
28.2	—	30	—	CC42.7	**1H661**
30	—	32.1	—	CC46.6	**1H662**
32.3	—	34.7	—	CC50.1	**1H663**
34.9	—	37.3	—	CC54.5	**1H664**
37.6	—	40.1	—	CC59.4	**1H665**
40	43.5	42.6	48.2	CC64.3	**1H666**

3-Phase Class 8536 Regular Enclosure Code C5	Regular Enclosure Code C6	Large Enclosure Code D5	Large Enclosure Code D6	Mfr. Model	Item No.
42.8	46.8	45.8	52.4	CC68.5	**1H667**
45.3	50	48.3	56.4	CC74.6	**1H668**
49.1	54.9	52.6	61.2	CC81.5	**1H669**
53.4	57.5	56.8	66.1	CC87.7	**1H670**
57.4	61.8	60.9	71.4	CC94.0	**1H671**
61.3	66.2	65.1	77	CC103.0	**1H641**
63.5	72.4	67.7	79	CC112.0	**1H642**
66.3	78.1	70.9	84.7	CC121.0	**1H643**

3-Phase Class 8536 Regular Enclosure Code C5	Regular Enclosure Code C6	Large Enclosure Code D5	Large Enclosure Code D6	Mfr. Model	Item No.
69	80.7	73.9	91.1	CC132.0	**1H644**
70.9	86.5	76.5	98.1	CC143.0	**1H645**
73.7	93.9	80.2	104	CC156.0	**1H646**
76.5	100	83.1	113	CC167.0	**1H647**
78.4	112	86	123	CC180.0	**1H648**
86	117	—	133	CC196.0	**1H649**
—	123	—	—	CC208.0	**1H651**
—	133	—	—	CC219.0	**1H652**

HUBBELL® Wiring Device-Kellems | SQUARE D by Schneider Electric

NEMA Manual Motor Switches

Nonreversing switches provide On/Off control of 1- or 3-phase AC motors where overload protection is not required or is provided separately. Open switches fit standard single-gang switch boxes and work with any cover plate that has a standard toggle cutout.

All switches rated 1, 1½, 2 HP at 90/115/230VDC respectively. 2-pole, 10 switches rated 2 HP at 115/230V. 3-pole, 30 switches are rated 7½ HP at 230V and 10 HP at 460 to 575V. For use in small machine tools, pumps, fans, conveyors, and electrical machinery. Also for nonmotor loads such as resistance heaters. UL Listed.

5HA30

1H408

1H405

1H406

Amps AC	Enclosure NEMA Rating	Description/ Special Features	Pilot Light	H	W	D	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
Hubbell										
30 A	1	Aluminum Enclosure	No	4.7 in	3.2 in	3.1 in	HBL1372D	**1MTD4**	HBL1379D	**1MTD6**
30 A	1	Thermoplastic Enclosure	No	4.52 in	3.97 in	3.43 in	HBL1392D	**1MTD5**	HBL1389D	**1MTD7**
30 A	3, 3R	—	No	4.75 in	3.0 in	4.55 in	HBL13R22D	**1MTD8**	HBL13R23D	**1MTD9**
30 A	No Enclosure	—	No	3.7 in	2.2 in	2.4 in	HBL7832D	**2EAV3**	HBL7810D	**5HA30**
40 A	No Enclosure	—	No	3.7 in	2.2 in	2.4 in	HBL7842D	**5HA31**	HBL7843D	**1MTE2**
50 A	No Enclosure	—	No	3.78 in	2.25 in	2.44 in	HBL7852D	**1MTE3**	HBL7853D	**1MTE4**
60 A	No Enclosure	—	No	3.7 in	2.2 in	2.4 in	HBL7862D	**1MTE5**	HBL7863D	**1MTE6**
85 A	No Enclosure	—	No	3.28 in	3.56 in	1.58 in	HBL7882D	**1MTE7**	HBL7883D	**1MTE8**
Square D										
30 A	1	General Purpose Surface Mount	No	4.25 in	2.44 in	2.75 in	2510KG1	**1H400**	2510KG2	**1H401**
30 A	1	Oversized Enclosure	No	4.25 in	2.88 in	2.75 in	—	—	2510KGJ2	**1H403**
30 A	1	Pilot Light	Yes	4.25 in	2.44 in	2.75 in	2510KG1B	**2MNH2** *	2510KG2C	**2BV90** †
30 A	1	Pilot Light	Yes	4.25 in	2.88 in	2.75 in	2510KG1A	**2BV87**	—	—
30 A	3R, 7, 9	Hazardous Location	No	6.36 in	3.95 in	4.25 in	2510KR1	**2BV96**	2510KR2	**2BV97**
30 A	3R, 7, 9	¾ in Pipe Tap on Top and Bottom	No	6.36 in	3.95 in	4.25 in	—	—	2510KR2H	**2BV98**
30 A	4	Water Tight and Dust Tight	No	4.25 in	3.0 in	4.25 in	2510KW1	**1H408**	2510KW2	**1H409**
30 A	4	Pilot Light	Yes	4.38 in	3.0 in	4.56 in	—	—	2510KW2C	**2BW05** *
30 A	4	¾ in Pipe Tap on Top and Bottom	No	4.38 in	3.0 in	4.25 in	2510KW1H	**2MNH4**	2510KW2H	**2BW06**
30 A	4	Pilot Light	No	4.38 in	3.0 in	4.56 in	2510KW1B	**2MNH3** †	—	—
30 A	4	Pilot Light	Yes	4.38 in	3.0 in	4.25 in	2510KW1A	**2BW03**	—	—
30 A	No Enclosure	Stainless Steel Flush Plate	No	4.5 in	2.75 in	1.44 in	2510KS1	**1H406**	2510KS2	**1H407**
30 A	No Enclosure	Gray Flush Plate	No	4.5 in	2.75 in	2.5 in	2510KF1	**2BV82**	2510KF2	**2BV84**
30 A	No Enclosure	Open Motor Switch	No	4.12 in	1.69 in	2.34 in	2510KO1	**1H404**	2510KO2	**1H405**

Description	Brand	Mfr. Model	Item No.
Accessories For Use with NEMA 1 Enclosures			
Handle Guard Kit w/Padlock Provision	Square D	2510FL1	**1H391**
Enclosure for Nos. 2EAV3 and 5HA30	Hubbell	HBL1390	**1GUD2**

**** 230VAC pilot light. † 440 to 600VAC pilot light.***

Dayton® | SQUARE D by Schneider Electric

Drum Switches

For starting and reversing of motors. Wiring diagram included. Should be used in conjunction with a motor that has overload protection or where no overload protection is required.

DAYTON®

Heavy copper drum contacts and metal enclosure with pressed steel case and frame.

SQUARE D®

Nonmetallic NEMA enclosure. 600VAC max. Field-convertible from maintained to momentary operation.

4UYE8

2X440

2BW44

NEMA Rating	HP @ 1-Phase 115V	HP @ 1-Phase 230V	HP @ 3-Phase 240V	HP @ 3-Phase 460V	HP @ 115VDC	HP @ 230VDC	Starter Type	Handle Material	H	W	D	Std.	Mfr. Model	Item No.
Drum Switches—For Motor Reversing Applications														
Dayton														
1	1 ½ hp	2	2 hp	1 hp	¼ hp	¼ hp	Momentary	Plastic	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	4UYE7	**4UYE7**
1	1 ½ hp	2	2 hp	1 hp	¼ hp	¼ hp	Momentary	Steel	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	4UYE8	**4UYE8**
1	1 ½ hp	2	—	—	¼ hp	¼ hp	Momentary	Plastic	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	5DJN3	**5DJN3**
1	1 ½ hp	2	—	—	¼ hp	¼ hp	Momentary	Steel	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	5DJN4	**5DJN4**
1	1 ½ hp	2	—	—	¼ hp	¼ hp	Maintained	Plastic	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	2X440	**2X440**
1	1 ½ hp	2	—	—	¼ hp	¼ hp	Maintained	Steel	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	4UYE9	**4UYE9**
1	1 ½ hp	2	2 hp	1 hp	¼ hp	¼ hp	Maintained	Plastic	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	2X441	**2X441**
1	1 ½ hp	2	2 hp	1 hp	¼ hp	¼ hp	Maintained	Steel	4.5 in	2.25 in	4 in	CSA Certified, UL Listed	4UYF1	**4UYF1**
1	1 ½ hp	2	2 hp	2 hp	1 hp	1 hp	Maintained	Plastic	5.5 in	3.5 in	5 in	—	2X442	**2X442**
1	2 hp	3	5 hp	7 ½ hp	2 hp	2 hp	Maintained	Plastic	5.75 in	3.5 in	6.25 in	CSA Certified, UL Listed	2X443	**2X443**
Square D														
1	1 ½ hp	2	2 hp	2 hp	¼ hp	¼ hp	Maintained/Momentary	Plastic	4.6 in	2.7 in	5.4 in	CSA Certified, UL Listed	2601AG2	**2BW44**
1	1 ½ hp	3	5 hp	7 ½ hp	2 hp	2 hp	Maintained/Momentary	Plastic	4.9 in	3.3 in	6.6 in	CSA Certified, UL Listed	2601BG1	**2BW46**
4	1 ½ hp	2	2 hp	2 hp	¼ hp	¼ hp	Maintained/Momentary	Plastic	4.6 in	2.7 in	5.4 in	CSA Certified, UL Listed	2601AW2	**2BW45**
4	1 ½ hp	3	5 hp	7 ½ hp	2 hp	2 hp	Maintained/Momentary	Plastic	4.9 in	3.3 in	6.6 in	CSA Certified, UL Listed	2601BW1	**2BW47**

Scan. Order. Done.
Details on page A1.

H2559

H2554

EATON

IEC Magnetic Motor Starters

- 3-phase applications, 600VAC max., 60/50 Hz
- Electronic overload with Class 10A, 10, 20, and 30 selectable protection
- IP20 rating, NEMA 1 metallic enclosure
- 5:1 overload adjustment range

Feature Eaton XT/DIL M Series motor starter and motor overload protection with Eaton C440 electronic overload. Enclosures are easily mountable, and accessible with only 1 screw to close the enclosure. Come with 1 normally open auxiliary contact for 3-wire control purposes. Feature both manual and automatic reset options as well as selectable trip class. Low-wattage coils. Provide phase loss and unbalance protection. Models with 24VAC and DC coils are available on Grainger.com®. UL Listed.

Amps AC	Overload Relay Amp Setting	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	WITHOUT CONTROLS Item No.	WITH HAND/OFF/ AUTO SELECTOR SWITCH Item No.	WITH HAND/OFF/ AUTO SELECTOR SWITCH AND RED RUN PILOT LIGHT Item No.	WITH START/ STOP PUSH BUTTON Item No.	WITH START/ STOP PUSH BUTTON AND RED RUN PILOT LIGHT Item No.
9.0 A	0.3 to 1.6	120V AC, 208V AC, 240V AC, 480V AC	3 hp	½ hp	**H2559**	**H2549**	**H2554**	**H2564**	**H2569**
9.0 A	1.0 to 5.0		1 hp	3 hp	**H2560**	**H2550**	**H2555**	**H2565**	**H2570**
9.0 A	4.0 to 20.0		2 hp	5 hp	**H2561**	**H2551**	**H2556**	**H2566**	**H2571**
25.0 A	9.0 to 45.0		7 ½ hp	15 hp	**H2562**	**H2552**	**H2557**	**H2567**	**H2572**
32.0 A	9.0 to 45.0		10 hp	20 hp	**H2563**	**H2553**	**H2558**	**H2568**	**H2573**

19YM23

Magnetic Motor Starters

SIEMENS

- 1NC/1NO
- Open enclosure type
- 24VDC

Starters provide prolonged service life and reduced heat losses thanks to hybrid switching technology. Offer the ideal solution for space-saving applications in the control cabinet.

Amps AC	Overload Relay Amp Setting	Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	SCREW TYPE CONNECTION Item No.	SPRING LOADED CONNECTION Item No.	MIXED CONNECTION Item No.
Nonreversing							
0.5 A	0.1 to 0.5	24V DC	—	—	**19YM23**	**19YM25**	**19YM27**
2.0 A	0.4 to 2.0		⅓ hp	¾ hp	**19YM29**	**19YM31**	**19YM33**
7.0 A	1.6 to 7.0		1 ½ hp	3 hp	**19YM35**	**19YM37**	**19YM39**
0.5 A	0.1 to 0.5	110 to 240V AC/DC	—	—	**19YM24**	**19YM26**	**19YM28**
2.0 A	0.4 to 2.0		⅓ hp	¾ hp	**19YM30**	**19YM32**	**19YM34**
7.0 A	1.6 to 7.0		1 ½ hp	3 hp	**19YM36**	**19YM38**	**19YM40**
Reversing							
0.5 A	0.1 to 0.5	24V DC	—	—	**19YM41**	**19YM43**	**19YM45**
2.0 A	0.4 to 2.0		⅓ hp	¾ hp	**19YM47**	**19YM49**	**19YM51**
7.0 A	1.6 to 7.0		1 ½ hp	3 hp	**19YM53**	**19YM55**	**19YM57**
0.5 A	0.1 to 0.5	110 to 240V AC/DC	—	—	**19YM42**	**19YM44**	**19YM46**
2.0 A	0.4 to 2.0		⅓ hp	¾ hp	**19YM48**	**19YM50**	**19YM52**
7.0 A	1.6 to 7.0		1 ½ hp	3 hp	**19YM54**	**19YM56**	**19YM58**

IEC Contactors and Overload Relays

SIEMENS

Modular design with screw terminals and plug-in accessories. Easy assembly of components to form motor starters. Energy efficient design. Only 2 groups of accessories for 5 frame sizes. UL Listed and CSA Certified.

Nonreversing Contactor

Reversing Contactor

Thermal Overload Relay

Frame/ Series Class/Code	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
Nonreversing IEC Magnetic Contactors, 3-Pole							
S00	7 A	1NC	24 V AC; 24 V DC; 110/120 V AC; 208 V AC; 220/240 V AC	2 hp	3 hp	3RT20151	**H2622**
S00	7 A	1NO		2 hp	3 hp	3RT20151	**H2575**
S00	9 A	1NC		3 hp	5 hp	3RT20161	**H2629**
S00	9 A	1NO		3 hp	5 hp	3RT20161	**H2576**
S00	12 A	1NC		3 hp	7 ½ hp	3RT20171	**H2630**
S00	12 A	1NO		3 hp	7 ½ hp	3RT20171	**H2577**
S00	16 A	1NC		5 hp	10 hp	3RT20181	**H2631**
S00	16 A	1NO		5 hp	10 hp	3RT20181	**H2578**
S0	12 A	1NO/1NC		3 hp	7 ½ hp	3RT20241	**H2579**
S0	16 A	1NO/1NC		5 hp	10 hp	3RT20251	**H2580**
S0	25 A	1NO/1NC		7 ½ hp	15 hp	3RT20261	**H2581**
S0	32 A	1NO/1NC		10 hp	20 hp	3RT20271	**H2582**
S0	38 A	1NO/1NC		10 hp	25 hp	3RT20281	**H2583**
S2	40	—	24V AC; 24V DC; 120V AC; 208V AC; 240V AC	15	30	3RT10351	**H2584**
S2	50	—		15	40	3RT10361	**H2585**
S3	65	—		25	50	3RT10441	**H2586**
S3	80	—		30	60	3RT10451	**H2587**
S3	95	—		30	75	3RT10461	**H2588**
S6	115 A	2NO/2NC	23 to 26 V AC/ DC; 110 to 127 V AC/DC; 220 to 240 V AC/DC	50 hp	100 hp	3RT10546	**H3806**
S6	150 A	2NO/2NC		60 hp	125 hp	3RT10556	**H3807**
S6	185 A	2NO/2NC		75 hp	150 hp	3RT10566	**H3808**
Nonreversing IEC Magnetic Contactors, 4-Pole							
S00	9 A	—	24 V AC; 24 V DC; 110/120 V AC; 110 V DC; 220/240 V AC	3 hp	5 hp	3RT25161	**H2607**
S00	12 A	—		3 hp	7 ½ hp	3RT25171	**H2608**
S00	16 A	—		5 hp	10 hp	3RT25181	**H2609**
S0	25 A	1NO/1NC		7 ½ hp	15 hp	3RT25261	**H2610**
Reversing IEC Magnetic Contactors, 3-Pole							
S00	7 A	2 NC	24 V DC; 110/120 V AC; 220/240 V AC	2 hp	3 hp	3RA23158	**H2611**
S00	9 A	2 NC		3 hp	5 hp	3RA23168	**H2612**
S00	12 A	2 NC		3 hp	7 ½ hp	3RA23178	**H2613**
S00	16 A	2 NC		5 hp	10 hp	3RA23188	**H2614**
S0	12 A	2NO/2NC		3 hp	7 ½ hp	3RA23258	**H2620**
S0	16 A	2NO/2NC		5 hp	10 hp	3RA23258	**H2621**
S0	25 A	2NO/2NC		7 ½ hp	15 hp	3RA23268	**H2623**
S0	32 A	2NO/2NC		10 hp	20 hp	3RA23278	**H2624**
S0	38 A	2NO/2NC		10 hp	25 hp	3RA23288	**H2625**
S2	40	2 NC	24V DC; 120V AC; 240V AC	15	30	3RA13358	**H2615**
S2	50	2 NC		15	40	3RA13368	**H2616**
S3	65	2 NC		25	50	3RA13448	**H2617**
S3	80	2 NC		30	60	3RA13458	**H2618**
S3	95	2 NC		30	75	3RA13468	**H2619**

Current Range	Item No.
Thermal Overload Relays, Trip Class 10	
S0 Frame/Series/Class/Code	
1.80 to 2.50A	**13A206**
2.20 to 3.20A	**13A207**
2.80 to 4.00A	**13A208**
3.50 to 5.00A	**13A209**
4.50 to 6.30A	**13A210**
5.50 to 8.00A	**13A211**
7.00 to 10.0A	**13A212**
9.00 to 12.5A	**13A213**
11.0 to 16.0A	**13A214**
14.0 to 20.0A	**13A215**
17.0 to 22.0A	**13A216**
20.0 to 25.0A	**13A217**
23.0 to 28.0A	**13A218**
27.0 to 32.0A	**13A219**
30.0 to 36.0A	**13A220**
34.0 to 40.0A	**13A221**
S00 Frame/Series/Class/Code	
0.11 to 0.16A	**13A184**
0.14 to 0.20A	**13A185**
0.18 to 0.25A	**13A186**
0.22 to 0.32A	**13A187**
0.28 to 0.40A	**13A188**
0.35 to 0.50A	**13A189**
0.45 to 0.63A	**13A190**
0.55 to 0.80A	**13A191**
0.70 to 1.00A	**13A192**
0.90 to 1.25A	**13A193**
1.10 to 1.60A	**13A194**
1.40 to 2.00A	**13A195**
1.80 to 2.50A	**13A196**
2.20 to 3.20A	**13A197**
2.80 to 4.00A	**13A198**
3.50 to 5.00A	**13A199**
4.50 to 6.30A	**13A201**
5.50 to 8.00A	**13A202**
7.00 to 10.0A	**13A203**
9.00 to 12.5A	**13A204**
11.0 to 16.0A	**13A205**

Nonreversing, 3-Pole
H2517

Nonreversing, 3-Pole
H2508

Nonreversing, 4-Pole
H2543

Reversing, 3-Pole
H2500

IEC Contactors and Overload Relays

- IP20 rated
- Contactors rated: -25° to 50°C
- Relays rated: -25° to 65°C

Designed for industrial applications, Eaton XT/DIL M Series heavy-duty contactors and reversing contactors can be combined with electronic overload relays to make a starter. All contactors are available for panel and DIN-rail mounting. 690VAC max., 50/60 Hz. Feature low-wattage coils, auxiliary contacts, front access coil terminals, toolless assembly, and dual clamps for multiwire. Electronic Overload Relays have selectable trip class and phase unbalance, to protect motor life. Feature 5:1 current adjustment, Class 10A, 10, 20, 30 selectable protection, and are self-powered. Status LED indicates the overload operational status. UL Listed, CE Approved, and CSA Certified. ATEX Listed and RoHS Compliant.

Overload Relay
5XHK7

Timer Module
4TZJ1

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
Nonreversing IEC Magnetic Contactors, 3-Pole							
A	7 A	1NO	24 V AC; 24 V DC;	2 hp	3 hp	XTCE007B10	**H2517**
A	7 A	1NC	120 V AC; 208 V AC; 240 V AC; 480 V AC	2 hp	3 hp	XTCE007B01	**H2536**
B	9 A	1NO	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 380 V AC; 480 V AC	3 hp	5 hp	XTCE009B10	**H2518**
B	9 A	1NC	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 480 V AC	3 hp	5 hp	XTCE009B01	**H2537**
C	12	1NC	240V AC	3	10	XTCE012B01	**H2538**
C	12 A	1NO	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 480 V AC	3 hp	10 hp	XTCE012B10	**H2519**
C	12 A	1NC	24 V AC; 24 V DC; 120 V AC; 208 V AC; 480 V AC	3 hp	10 hp	XTCE012B01	**H2538**
D	15 A	1NO	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 480 V AC	5 hp	10 hp	XTCE015B10	**H2520**
D	15 A	1NC		5 hp	10 hp	XTCE015B01	**H2539**
E	18 A	1NO		5 hp	10 hp	XTCE018C10	**H2521**
E	18 A	1NC		5 hp	10 hp	XTCE018C01	**H2540**
F	25 A	1NO		10 hp	15 hp	XTCE025C10	**H2522**
F	25 A	1NC		10 hp	15 hp	XTCE025C01	**H2541**
G	32 A	1NO		10 hp	20 hp	XTCE032C10	**H2523**
G	32 A	1NC		10 hp	20 hp	XTCE032C01	**H2542**
H	40 A	—		15 hp	30 hp	XTCE040D00	**H2508**
J	50 A	—		20 hp	40 hp	XTCE050D00	**H2509**
K	65 A	—		25 hp	50 hp	XTCE065D00	**H2510**
L	72 A	—		25 hp	50 hp	XTCE072D00	**H2511**
M	80 A	—		30 hp	60 hp	XTCE080F00	**H2512**
N	95 A	—		40 hp	75 hp	XTCE095F00	**H2513**
O	115 A	—	24 V AC; 24 V DC; 120 V AC; 240 V AC; 480 V AC	50 hp	100 hp	XTCE115G00	**H2514**
P	150 A	—		60 hp	125 hp	XTCE150G00	**H2515**
Q	170 A	—		60 hp	125 hp	XTCE170G00	**H2516**
Nonreversing IEC Magnetic Contactors, 4-Pole							
C	12 A	—	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 480 V AC	3 hp	10 hp	XTCF020B00	**H2524**
E	18 A	1NO		7 ½ hp	10 hp	XTCF032C10	**H2543**
F	25 A	1NO		10 hp	15 hp	XTCF045C10	**H2544**
H	40 A	—		15 hp	30 hp	XTCF063D00	**H2525**
J	50 A	—		20 hp	40 hp	XTCF080D00	**H2526**
M	80 A	—	24 V AC; 24 V DC; 120 V AC; 240 V AC; 480 V AC	30 hp	60 hp	XTCF125G00	**H2527**
N	95 A	—	24 V DC; 120 V AC; 240 V AC; 480 V AC	40 hp	75 hp	XTCF160G00	**H2528**
O	115 A	—	24 V AC; 24 V DC; 120 V AC; 240 V AC; 480 V AC	50 hp	100 hp	XTCF200G00	**H2529**
Reversing IEC Magnetic Contactors, 3-Pole							
A	7 A	2NO/1NC	24 V AC; 24 V DC; 120 V AC; 208 V AC; 240 V AC; 480 V AC	2 hp	3 hp	XTCR007B21	**H2530**
B	9 A	2NO/1NC		3 hp	5 hp	XTCR009B21	**H2531**
C	12 A	2NO/1NC		3 hp	10 hp	XTCR012B21	**H2532**
E	18 A	2NO/1NC		5 hp	10 hp	XTCR018C21	**H2533**
F	25 A	2NO/1NC		10 hp	15 hp	XTCR025C21	**H2534**
G	32 A	2NO/1NC		10 hp	20 hp	XTCR032C21	**H2535**
H	40 A	1NO/1NC		15 hp	30 hp	XTCR040D11	**H2500**
J	50 A	1NO/1NC		20 hp	40 hp	XTCR050D11	**H2501**
K	65 A	1NO/1NC		25 hp	50 hp	XTCR065D11	**H2502**
M	80 A	1NO/1NC		30 hp	60 hp	XTCR080F11	**H2503**
N	95 A	1NO/1NC		40 hp	75 hp	XTCR095F11	**H2504**
O	115 A	1NO/1NC	24 V AC; 24 V DC; 120 V AC; 240 V AC; 480 V AC	50 hp	100 hp	XTCR115G11	**H2505**
P	150 A	1NO/1NC		60 hp	100 hp	XTCR150G11	**H2506**
Q	170 A	1NO/1NC		60 hp	125 hp	XTCR170G11	**H2507**

Works with Key	Current Range	Mfr. Model	Standard Item No.	With Ground Fault Item No.
Electronic Overload Relays				
A to D	0.33 to 1.65A	XTOE1P6B_S	**5XHN5**	**5XHN6**
A to D	1.00 to 5.00A	XTOE005B_S	**5XHK1**	**5XHK2**
A to D	4.00 to 20.0A	XTOE020B_S	**5XHK7**	**5XHK8**
E to G	0.33 to 1.65A	XTOE1P6C_S	**5XHN7**	**5XHN9**
E to G	1.00 to 5.00A	XTOE005C_S	**5XHK3**	**5XHK5**
E to G	4.00 to 20.0A	XTOE020C_S	**5XHK9**	**5XHL1**
E to G	9.00 to 45.0A	XTOE045C_S	**5XHL3**	**5XHL5**
H to K	9.00 to 45.0A	XTOE045D_S	**5XHL7**	**5XHL8**
H to K	20.0 to 100A	XTOE100D_S	**5XHL9**	**5XHN0**
M to Q	20.0 to 100A	XTOE100G_S	**5XHN1**	**5XHN3**
Independently Mounted Electronic Overload Relays				
—	0.33 to 1.65A	XTOE1P6C_SS	**5XHN8**	**5XHP0**
—	1.00 to 5.00A	XTOE005C_SS	**5XHK4**	**5XHK6**
—	4.00 to 20.0A	XTOE020C_SS	**5XHL0**	**5XHL2**
—	9.00 to 45.0A	XTOE045C_SS	**5XHL4**	**5XHL6**
—	20.0 to 100A	XTOE100G_SS	**5XHN2**	**5XHN4**
Overload Relay Accessories				
Expansion Module, Remote Reset, 18 to 30V DC, Modbus RTU, RS485		C440-XCOM	**6PXK9**	—
Remote Reset Module, 120V AC		ZEB-XRR-120	**5XHP6**	—
Remote Reset Module, 24V AC		ZEB-XRR-24	**5XHP7**	—
Reset Bar		ZEB-XRB	**5XHP5**	—
Safety Cover		ZEB-XSC	**5XHP8**	—

Works with Key	Description	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contacts					
A to G	Front Mounting, Rated 16 AA	1	1	XTCEXFAC11	**4TZG3**
A to G	Front Mounting, Rated 16 AA	2	2	XTCEXFAC22	**4TZG4**
A to G	Front Mounting, Rated 16 AA	4	0	XTCEXFAC40	**4TZG5**
H to Q	Front Mounting, Rated 16 AA	1	1	XTCEXFBG11	**4TZG6**
H to Q	Front Mounting, Rated 16 AA	2	2	XTCEXFBG22	**4TZG7**
H to Q	Front Mounting, Rated 16 AA	4	0	XTCEXFBG40	**4TZG8**
G	Side Mounting, Rated 10 AA	1	1	XTCEXSCC11	**4TZH9**
IEC Timer Modules, Front Mounting					
A to G	Off Delay, 100-130VAC, 5.00 sec to 100.00 sec sec.	1	1	XTCEXTED100C11A	**4TZJ1**
A to G	Off Delay, 200-240VAC, 5.00 sec to 100.00 sec sec.	1	1	XTCEXTED100C11B	**4TZJ2**
A to G	Off Delay, 24VAC/DC, 5.00 sec to 100.00 sec sec.	1	1	XTCEXTED100C11T	**4TZJ3**
A to G	On Delay, 100-130VAC, 0.50 sec to 10.00 sec sec.	1	1	XTCEXTEEC11A	**4TZJ4**
A to G	On Delay, 200-240VAC, 15.00 sec to 100.00 sec sec.	1	1	XTCEXTEEC11B	**4TZJ5**
A to G	On Delay, 24VAC/DC, 0.05 sec to 1.00 sec sec.	1	1	XTCEXTEEC11T	**4TZJ6**
Mechanical Interlocks					
A to D	—	—	—	XTCEXMLB	**4TZG9**
E to G	—	—	—	XTCEXMLC	**4TZH1**
H to K	—	—	—	XTCEXMLD	**4TZH2**
M to Q	—	—	—	XTCEXMLG	**4TZH3**
Reversing Link Kits					
A to D	—	—	—	XTCEXRLB	**4TZH4**
E to G	—	—	—	XTCEXRLC	**4TZH5**
H to K	—	—	—	XTCEXRLD	**4TZH6**
M to Q	—	—	—	XTCEXRLG	**4TZH7**

IEC Contactors, Motor Starters, and Overload Relays

Dayton

3-Pole Contactor

Overload Relay

Time Delay Auxiliary Contact Block

CONTACTORS

- 3-yr. warranty
- DIN rail or panel mount

For industrial motor control. Mechanical life: 10 million cycles. 3-pole contactors should be paired with overload relays. 9 to 32A 3-pole contactors have 1NO auxiliary contact. 40 to 95A 3-pole contactors have 1NO/1NC auxiliary contacts. UL and C-UL Listed.

OVERLOAD RELAYS

- Bimetallic
- For 3-phase applications
- Compatible with Dayton® IEC contactors

Feature continuously readjustable current settings. Have temperature compensation, tripped indicator, test button, stop button, manual and automatic reset button, finger-safe terminals, and 1NO/1NC contacts. UL and C-UL Listed.

AUXILIARY CONTACT BLOCKS

- Front mount
- Compatible with Dayton® IEC contactors

Allow for additional indicator lights, signals, or alarms.

TIME DELAY AUXILIARY CONTACT BLOCKS

- Front mount
- Compatible with Dayton® IEC contactors

Timer combines with a contactor to create a time delay contactor.

REPLACEMENT COILS

- 60 Hz
- Compatible with Dayton® IEC contactors

Coil can be changed without replacing the entire block.

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Item No.	REVERSING Item No.
3-Pole IEC Magnetic Contactor							
A	9 A	1NO	24 V AC, 120 V AC, 240 V AC	2 hp	5 hp	**H2449**	—
A	9 A	1NO	24 V AC, 24 V DC, 120 V AC, 240 V AC	2 hp	5 hp	—	**H2459**
B	12 A	1NO	24 V AC, 120 V AC, 240 V AC	3 hp	7 ½ hp	**H2450**	—
B	12 A	1NO	24 V AC, 24 V DC, 120 V AC, 240 V AC	3 hp	7 ½ hp	—	**H2460**
C	18 A	1NO	24 V AC, 120 V AC, 240 V AC	5 hp	10 hp	**H2451**	—
C	18 A	1NO	24 V AC, 24 V DC, 120 V AC, 240 V AC	5 hp	10 hp	—	**H2461**
D	25 A	1NO	24 V AC, 120 V AC, 240 V AC	7 ½ hp	15 hp	**H2452**	—
D	25 A	1NO	24 V AC, 24 V DC, 120 V AC, 240 V AC	7 ½ hp	15 hp	—	**H2462**
E	32 A	1NO	24 V AC, 120 V AC, 240 V AC	10 hp	20 hp	**H2453**	—
F	32 A	1NO/1NC		10 hp	30 hp	**H2454**	—
G	50 A	1NO/1NC		15 hp	40 hp	**H2455**	—
H	65 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 240 V AC	20 hp	50 hp	**H2456**	—
J	80 A	1NO/1NC		25 hp	60 hp	**H2457**	—
K	95 A	1NO/1NC		25 hp	60 hp	**H2458**	—
4-Pole (2NO/2NC) IEC Magnetic Contactor							
A	9 A	—		—	—	**H2463**	—
B	12 A	—		—	—	**H2464**	—
D	25 A	—	24 V AC, 24 V DC, 120 V AC, 240 V AC	—	—	**H2465**	—
F	40 A	—		—	—	**H2466**	—
G	50 A	—		—	—	**H2467**	—

Works with Key	Current Range	Item No.	Works with Key	Current Range	Item No.
Overload Relays			A to C	9.00 to 13.0A	**6ECC4**
A to C	0.10 to 0.16A	**6ECA3**	A to C	12.0 to 18.0A	**6ECC5**
A to C	0.16 to 0.25A	**6ECA4**	D,E	17.0 to 25.0A	**6ECC6**
A to C	0.25 to 0.40A	**6ECA5**	F to K	23.0 to 32.0A	**6EAZ7**
A to C	0.40 to 0.63A	**6ECA6**	D,E	23.0 to 32.0A	**6ECC7**
A to C	0.63 to 1.00A	**6ECA7**	D,E	28.0 to 36.0A	**6ECC8**
A to C	1.00 to 1.60A	**6ECA8**	F to K	30.0 to 40.0A	**6EAZ8**
A to C	1.60 to 2.50A	**6ECA9**	F to K	37.0 to 50.0A	**6EAZ9**
A to C	2.50 to 4.00A	**6ECC0**	F to K	48.0 to 65.0A	**6ECA0**
A to C	4.00 to 6.00A	**6ECC1**	F to K	55.0 to 70.0A	**6ECA1**
A to C	5.50 to 8.00A	**6ECC2**	F to K	63.0 to 80.0A	**6ECA2**
A to C	7.00 to 10.0A	**6ECC3**	F to K	80.0 to 93.0A	**6ECC9**

Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Item No.
Auxiliary Contact Blocks, 3 Amps @ 240VAC, 1.5 Amps @ 120VAC			
All	1	1	**6EAR9**
All	2	0	**6EAT0**
All	0	2	**6EAT1**
All	2	2	**6EAT2**
All	1	3	**6EAT3**
All	4	0	**6EAT4**
All	0	4	**6EAT5**
All	3	1	**6EAT6**
A to E	Mechanical Interlock		**6FZJ1**

Works with Key	Contacts NC	Contacts NO	Range of Time Delay	ON DELAY Item No.	OFF DELAY Item No.
Time Delay Auxiliary Contact Blocks					
All	1	1	0.10 sec to 3.00 sec	**6EAT7**	**6EAU0**
All	1	1	0.10 sec to 30.00 sec	**6EAT8**	**6EAU1**
All	1	1	10.00 sec to 180.00 sec	**6EAT9**	**6EAU2**

Works with Key	Encl. Type	H	W	D	Item No.
Enclosures					
A	NEMA 4	7.32 in	4.72 in	5.11 in	**6FZJ4**
C	NEMA 4	7.32 in	4.72 in	5.11 in	**6FZJ5**
D	NEMA 4	8.48 in	5.66 in	5.31 in	**6FZJ6**
E	NEMA 4	8.48 in	5.66 in	5.31 in	**6FZJ7**
A	NEMA 12	6.37 in	3.42 in	5.51 in	**6FZJ2**
D	NEMA 12	7.08 in	3.81 in	6.1 in	**6FZJ3**

Works with Key	24V AC Item No.	120V AC Item No.	240V AC Item No.
Replacement Coils			
A to C	**6EAU3**	**6EAU5**	**6EAU7**
D,E	—	**6EAZ5**	**6EAZ6**
F to K	**6EAU4**	**6EAU6**	**6EAU8**

Schneider Electric

G3476

TeSys™ IEC Contactors and Overload Relays

For industrial motor control applications, combine a contactor with an overload relay to make a complete motor starter. Rated 600VAC. Saddle clamp terminals. DIN rail- or panel-mount. UL Listed, CSA and CE Certified.

CONTACTORS

Inclined wire guides and captive screws. 60/50 Hz coil. IP20 touch-safe with removable terminal cover.

OVERLOAD RELAYS

For 3-phase applications. Bimetallic elements. Class 10 trip characteristics with 1-phase sensitivity. Ambient compensated. Adjustable current range. Lockable, sealable, manual/auto reset, test trip. Mount to underside of contactor.

Key	Full Load Amps (Inductive)	Aux. Contact Config.	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Item No.	REVERSING Item No.
3-Pole IEC Magnetic Contactor							
A	9 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	2 hp	5 hp	**G3478**	—
A	9 A	1NO/1NC	24 V AC, 24 V DC, 115 V AC, 120 V AC, 240 V AC, 480 V AC	2 hp	5 hp	—	**G3486**
B	12 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	3 hp	7 ½ hp	**G3479**	—
B	12 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 240 V AC, 480 V AC	3 hp	7 ½ hp	—	**G3487** *
C	18 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	5 hp	10 hp	**G3480**	**G3488**
D	25 A	1NO/1NC		7 ½ hp	15 hp	**G3481**	—
D	25 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 240 V AC, 480 V AC	7 ½ hp	15 hp	—	**G3489** *
E	32 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	10 hp	20 hp	**G3482**	—
E	32 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 240 V AC	10 hp	20 hp	—	**G3490** *
E	32	1NO/1NC	480V AC	10	20	—	**G3490** *
F	40 A	1NO/1NC		10 hp	30 hp	**G3475**	—
G	50 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 200 V AC, 240 V AC, 480 V AC	15 hp	40 hp	**G3476**	—
H	65 A	1NO/1NC		20 hp	40 hp	**G3477**	—
J	80 A	1NO/1NC		30 hp	60 hp	**G3483**	—
K	115 A	1NO/1NC	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	40 hp	75 hp	**G3484**	—
L	150 A	1NO/1NC		50 hp	100 hp	**G3485**	—

Works with Key	Current Range	Mfr. Model	Item No.	Works with Key	Current Range	Mfr. Model	Item No.	Works with Key	Current Range	Mfr. Model	Item No.
IEC Style Overload Relay											
A to E	0.10 to 0.16A	LRD01	**3EA37**	A to E	4.00 to 6.00A	LRD10	**3EA45**	F to H	23.0 to 32.0A	LRD332	**6KYC5**
A to E	0.16 to 0.25A	LRD02	**3EA38**	A to E	5.50 to 8.00A	LRD12	**3EA46**	F to H	30.0 to 40.0A	LRD340	**6KYC6**
A to E	0.25 to 0.40A	LRD03	**3EA39**	A to E	7.00 to 10.0A	LRD14	**3DY99**	G to H	37.0 to 50.0A	LRD350	**6KYC7**
A to E	0.40 to 0.63A	LRD04	**3EA40**	B to E	9.00 to 13.0A	LRD16	**3EA10**	H	48.0 to 65.0A	LRD365	**6KYC8**
A to E	0.63 to 1.00A	LRD05	**3EA41**	C to E	12.0 to 18.0A	LRD21	**3EA11**	J	55.0 to 70.0A	LRD3361	**3DE30**
A to E	1.00 to 1.60A	LRD06	**3EA42**	D,E	16.0 to 24.0A	LRD22	**3EA12**	J	63.0 to 80.0A	LRD3363	**3DE31**
A to E	1.60 to 2.50A	LRD07	**3EA43**	D,E	23.0 to 32.0A	LRD32	**3EA13**	K,L	80.0 to 104A	LRD4365	**2MMY1**
A to E	2.50 to 4.00A	LRD08	**3EA44**	E	30.0 to 38.0A	LRD35	**3EA14**	K,L	95.0 to 120A	LRD4367	**2MMY2**
Terminal Block											
Square Series D, K, and F Overload Relays;LR3D01 to D35 and LRD01 to 35										LAD7B106	**2UWY3**
Overload Relay Mounting Kit											
Square D Overload Relay Series LRD3, LR3D3 and LR2D35										LA7D3064	**2UWY4**

Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.	Works with Key	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks, Front Mounting					All	2	0	LADN20	**3DB60**
All	2	2	LADN22	**3DB62**	All	0	2	LADN02	**3DB61**
All	1	3	LADN13	**3DB63**	J	1	0	LADN10	**3DB57**
All	4	0	LADN40	**3DB64**	J	0	1	LADN01	**3DB58**
All	0	4	LADN04	**3DB65**	**Auxiliary Contact Blocks, Side Mounting, 1 Max. 9-32A, 2 Max. 40-80A**				
All	3	1	LADN31	**3DB66**	All (AC Coils Only)	1	1	LAD8N11	**3DB68**
All	1	1	LADN11	**3DB59**	All (AC Coils Only)	2	0	LAD8N20	**3DB69**

** Not available with 208VAC coil.*

Works with Key	Contacts NC	Contacts NO	Range of Time Delay	ON DELAY Mfr. Model	ON DELAY Item No.	OFF DELAY Mfr. Model	OFF DELAY Item No.
Time Delay Auxiliary Contact Blocks, Front Mount							
All	1	1	0.10 sec to 3.00 sec	LADT0	**3DB73**	LADR0	**3DB77**
All	1	1	0.10 sec to 30.00 sec	LADT2	**3DB74**	LADR2	**3DB78**
All	1	1	10.00 sec to 180.00 sec	LADT4	**3DB75**	LADR4	**3DB79**

Works with Key	24VAC Item No.	120VAC Item No.	208VAC Item No.	240VAC Item No.	480VAC Item No.
Replacement Coils					
A, B, C, D, and E	**3DB96**	**3DB97**	**2MMY5**	**3DB98**	**3DB99**
J	**3DE10**	**3DE11**	—	**3DE12**	**2MMY4**

IEC Mini Contactors

- 3-pole
- 50/60 Hz
- Enclosures not included

Feature a modular design that permits various configurations. Dual-mounting system.

Mechanical life: 10 million operations, and electrical life: 1 million operations. Finger and back-of-hand protection. UL Listed and CSA Certified.

OVERLOAD RELAYS

- Trip Class 10

Feature phase loss sensitivity, ambient temperature compensation, automatic or manual reset, trip indication, and trip test.

AUXILIARY CONTACT BLOCKS

Contacts rated 10A, A600. Max. 600V.

Nonreversing

Reversing

Thermal Overload Relay

Auxiliary Contact

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Aux. Contact Config.	HP @ 3-Phase 240V	HP @ 3-Phase 480V	NONREVERSING Mfr. Model	NONREVERSING Item No.	REVERSING Mfr. Model	REVERSING Item No.
6 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC; 480 V AC	1NO	1 ⅕ hp	3 hp	MC1A-3-10	**H2474**	OBSOLETE	**H2490**
6 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC; 480 V AC	1NC	1 ⅕ hp	3 hp	MC1A-3-01	**H2468**	OBSOLETE	**H2483**
6 A	24 V AC	1NC	1 ⅕ hp	3 hp	AF38R-30-	**H2468**	—	—
9	480V AC	1NO	3	5	—	—	TLIE2T	**H2491**
9 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC	1NO	3 hp	5 hp	—	—	TLIE2T	**H2491**
9 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC; 480 V AC	1NO	3 hp	5 hp	MC1A-3-10	**H2475**	—	—
9 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC; 480 V AC	1NC	3 hp	5 hp	MC1A-3-01	**H2499**	TLIE2U	**H2484**
12 A	24 V AC; 120 V AC; 208 V AC; 240 to 277 V AC; 480 V AC	1NO	4 hp	7 ½ hp	MC2A-3-10	**H2477**	—	—
12 A	208 V AC; 240 to 277 V AC; 480 V AC	1NC	4 hp	7 ½ hp	MC2A-3-01	**H2469**	—	—

Current Range	Mfr. Model	Item No.
Overload Relays		
0.11 to 0.17A	TF16-0.13	**6CLA9**
0.17 to 0.26A	TF16-0.23	**6CLC0**
0.26 to 0.43A	TF16-0.31	**6CLC1**
0.40 to 0.65A	TF16-0.55	**6CLC2**
0.65 to 1.00A	TF16-0.74	**6CLC3**
0.85 to 1.30A	TF16-1.0	**6CLC4**
1.10 to 1.60A	T16-1.7	**6CLC5**
1.35 to 2.00A	T16-1.7	**6CLC6**
1.70 to 2.40A	T16-2.3	**6CLC7**
2.20 to 3.20A	T16-3.1	**6CLC8**
3.00 to 4.70A	T16-4.2	**6CLC9**
4.00 to 6.30A	T16-5.7	**6CLD0**
5.50 to 8.00A	T16-7.6	**6CLD1**
7.50 to 10.5A	T16-10	**6CLD2**
10.0 to 14.0A	T16-13	**6CLD3**

For Use With	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks				
Front Mount				
GE IEC MC/TL Contactors	0	2	MACN2-02-AT	**6CKY8**
GE IEC MC/TL Contactors	1	1	MACN2-11-AT	**6CKY9**
GE IEC MC/TL Contactors	1	3	MACN4-13-AT	**6CKZ0**
GE IEC MC/TL Contactors	2	2	MACN4-22-AT	**6CKZ1**
GE IEC MC/TL Contactors	3	1	MACN4-31-AT	**6CKZ2**
Side Mount				
GE IEC MC Contactors	0	1	MACL1-01-AT	**6CKY4**
GE IEC MC Contactors	1	0	MACL1-10-AT	**6CKY6**
GE IEC TL Reversing Contactors	0	1	MARL1-01-ATS	**6CKY5**
GE IEC TL Reversing Contactors	1	0	MARL1-10-ATS	**6CKY7**
GE IEC MC/TL Contactors, Not Used In Combination w/Top Aux. Contacts	0	1	MARL1-01-AT	**6CKZ3**
GE IEC MC/TL Contactors, Used In Combination w/Top Aux. Contacts	0	1	MARL1-01-ATS	**6CKZ4**
GE IEC MC/TL Contactors, Not Used In Combination w/Top Aux. Contacts	1	0	MARL1-10-AT	**6CKZ5**
GE IEC MC/TL Contactors, Used In Combination w/Top Aux. Contacts	1	0	MARL1-10-ATS	**6CKZ6**

Miniature IEC Contactors and Overload Relays

- 3- and 4-pole configurations
- IP20 rated
- 12 to 600VAC, 12 to 220VDC

Eaton XT/DIL M Series miniature contactors are available with screw or spring-cage terminals and panel or DIN-rail mounting. Miniature overload relays mount directly to mini-contactors. Feature phase failure sensitivity, manual and automatic reset by selector switch, Test/Off button, and trip-free release. Suitable for light-duty applications like hoisting, packaging, material handling, heating, lighting, and automation systems. Quiet operation. Contact dimensions: 2.28"H x 1.77"W x 2.05"D. UL Listed, CSA, and CE Approved.

H2545

4WXD6

4WXC4

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Aux. Contact Config.	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model	Item No.
3-Pole						
6 A	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	1NO	2 hp	3 hp	XTMC6A10	**H2547**
6 A	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	1NC	3 hp	3 hp	XTMC6A01	**H2545**
9 A	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	1NO	3 hp	5 hp	XTMC9A10	**H2548**
9 A	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	1NC	3 hp	5 hp	XTMC9A01	**H2546**
4-Pole						
9 A	24 V AC, 24 V DC, 120 V AC, 208 V AC, 240 V AC, 480 V AC	—	3 hp	5 hp	XTMF9A00	**H2574**

Current Range	Mfr. Model	Item No.
Overload Relays		
0.10 to 0.16A	XTOMP16AC1	**4WXE4**
0.16 to 0.24A	XTOMP24AC1	**4WXE5**
0.24 to 0.40A	XTOMP40AC1	**4WXE6**
0.40 to 0.60A	XTOMP60AC1	**4WXE7**
0.60 to 1.00A	XTOM001AC1	**4WXD6**
1.00 to 1.60A	XTOM1P6AC1	**4WXE2**
1.60 to 2.40A	XTOM2P4AC1	**4WXE3**
2.40 to 4.00A	XTOM004AC1	**4WXD7**
4.00 to 6.00A	XTOM006AC1	**4WXD8**
6.00 to 9.00A	XTOM009AC1	**4WXD9**
9.00 to 12.0A	XTOM012AC1	**4WXE1**

Amps	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact, Front Mounting				
10 A	1	1	XTMCXFA11	**4WXC4**
10 A	2	2	XTMCXFA22	**4WXC5**
10 A	4	0	XTMCXFA40	**4WXC6**
Accessories				
Mechanical Interlock			XTMCXML	**4WXC7**
Reversing Link Kit			XTMCXRL	**4WXC8**

TeSys™ Minicontactors and Overload Relays

DIN rail- or panel-mount general-duty TeSys minicontactors and overload relays fit into small spaces. Combine a minicontactor with an overload relay to make a complete motor starter. Rated 600VAC. Screw-clamp terminals. UL Listed and CSA Certified.

MINICONTACTORS

Mechanical life: contactors, 10 million operations; reversing contactors, 5 million operations. Inclined wire guides and captive screws. IP20 touch-safe with removable terminal cover.

OVERLOAD RELAYS

For 3-phase applications. Bimetallic elements. Class 10 trip characteristics with 1-phase sensitivity. Ambient compensated. Adjustable current range. Lockable, sealable, manual/auto reset, test trip. Mount to underside of contactor.

G3491

G3494

6B182

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Mfr. Model*	Item No.
Miniature IEC Magnetic Contactor					
Nonreversing, 1NO Auxiliary Contact					
6 A	120 V AC, 208 V AC, 240 V AC, 24 V AC, 24 V DC	1 ½ hp	3 hp	LC1K0610	**G3491**
9 A	120 V AC, 208 V AC, 240 V AC, 24 V AC, 24 V DC	3 hp	5 hp	LC1K0910	**G3492**
12 A	120 V AC, 208 V AC, 240 V AC, 24 V AC, 24 V DC	3 hp	7 ½ hp	LC1K1210	**G3493**
Reversing, 1NC Auxiliary Contact					
6 A	120 V AC, 208 V	1 ½ hp	3 hp	LC2K0601	**G3494**
9 A	AC, 240 V AC, 24 V AC, 24 V DC	3 hp	5 hp	LC2K0901	**G3495**
12 A	120 V AC, 240 V AC, 24 V AC, 24 V DC	3 hp	7 ½ hp	LC2K1201	**G3496**

Current Range	Mfr. Model	Item No.	Current Range	Mfr. Model	Item No.	Current Range	Mfr. Model	Item No.
Overload Relays								
0.11 to 0.16A	LR2K0301	**6B182**	0.54 to 0.80A	LR2K0305	**6B186**	2.60 to 3.70A	LR2K0310	**6B190**
0.16 to 0.23A	LR2K0302	**6B183**	0.80 to 1.20A	LR2K0306	**6B187**	3.80 to 5.50A	LR2K0312	**6B191**
0.23 to 0.36A	LR2K0303	**6B184**	1.20 to 1.80A	LR2K0307	**6B188**	5.50 to 8.00A	LR2K0314	**6B192**
0.36 to 0.54A	LR2K0304	**6B185**	1.80 to 2.60A	LR2K0308	**6B189**	8.00 to 11.5A	LR2K0316	**6B451**
Overload Relay Mounting Kit, 35mm DIN Rail or Panel Mount							LA7K0064	**6B405**

No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contact Blocks							
2	0	LA1KN20	**6B200**	2	2	LA1KN22	**6B201**
1	1	LA1KN11	**6B199**	4	0	LA1KN40	**6B202**

*** 24VDC models are Schneider Electric LP series.***

Push-Button
3CY82

Rotary
2MNH8

IEC Manual Motor Starters

Schneider Electric

- Bimetallic thermal overload relays
- 3-pole
- Trip test
- Phase loss sensitivity protection
- 35mm DIN rail mounting
- Class 10 overload protection

Can be used alone for local, manual control of a single motor. Operating current of instantaneous magnetic trip is approx. 13 times the max. thermal trip (nonadjustable setting). 10K AIR at 480V. Mechanical and electrical life: 100,000 operations, max. 25 operations per hr. UL Listed and CSA Certified.

Overload Relay Amp Setting	PUSH BUTTON Item No.	ROTARY KNOB Item No.
0.1 to 0.16A	2MNH5	2MNH8
0.16 to 0.25A	2MNH6	2MNH9
0.25 to 0.4A	3CY82	2MNJ1
0.4 to 0.63A	3CY83	2MNJ2
0.63 to 1A	3CY84	2MNJ3
1 to 1.6A	3CY85	2MNJ4
1.6 to 2.5A	3CY86	2MNJ5
2.5 to 4A	3CY87	2MNJ6
4 to 6.3A	3CY88	2MNJ7
6 to 10A	3CY89	2MNJ8
9 to 14A	3CY90	2MNJ9
13 to 18A	3CY91	2MNK1
17 to 23A	3CY92	2MNK2
20 to 25A	3CY93	2MNK3
24 to 32A	2MNH7	2MNK4

Mounting	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Item No.
Auxiliary Contact			
Front	1	1	3DA33
Front	2	0	3DA34
Side	1	1	3DA35

Push-Button
4WXG2

Rotary
4WXH7

IEC Manual Motor Starters

EATON

- Bimetallic thermal overload relays
- 3-pole
- Trip test
- Phase loss sensitivity protection
- 35mm DIN rail mounting
- Class 10 overload protection

XT/PKZ Series features push-button or rotary On/Off manual disconnect with lockout provision. Available with screw terminals. Built-in heater and magnetic trip protect motor. Suitable for applications requiring manual starting and stopping of motors. UL 508 Type E and F rated with use of line side adapter. UL Listed and CSA Certified. Meet IEC standards.

Amps AC	PUSH BUTTON Item No.	ROTARY KNOB Item No.
0.10 to 0.16A	4WXH3	— —
0.16 to 0.25A	4WXH4	— —
0.25 to 0.40A	4WXH5	— —
0.40 to 0.63A	4WXH6	— —
0.63 to 1.00A	4WXG2	4WXH7
1.00 to 1.60A	4WXG9	4WXK4
1.60 to 2.50A	4WXH1	4WXK5
2.50 to 4.00A	4WXG3	4WXH8
4.00 to 6.30A	4WXH2	4WXK6
6.30 to 10.00A	4WXG4	4WXH9
8.00 to 12.00A	4WXG5	4WXJ1
10.00 to 16.00A	4WXG6	4WXJ2
16.00 to 20.00A	4WXG7	4WXJ4
20.00 to 25.00A	4WXG8	4WXJ5
25.00 to 32.00A	— —	4WXJ7

Definite Purpose Contactors

Square D 8910DP Series—Quick-connect terminals and binder head screws enable easy straight-through wiring. Double-break contacts. Mechanical life: 500,000 operations. Compact design. Box lugs are standard on 40A and higher models. Auxiliary contact modules snap onto either side of standard models. Suitable for air compressors, agricultural equipment, pumps, food service equipment, and HVACR equipment. 277VAC and 480VAC coil voltages available on Grainger.com®. UL Recognized and CSA Certified.

- 600VAC max.
- Industry-standard mounting

Dayton®—Captive screw and quick-connect terminals for easy wiring. Double-break contacts. Suitable for HVACR equipment. UL Recognized.

- 3-year warranty
- 60/50 Hz
- Nonreversing

Eaton C25 Series—Feature a compact, efficient design with a low VA coil and straight-through wiring. Housing design limits dust and other contaminants from magnet structure and reduces noise. 3- and 4-pole contactors are dual-rated for inductive and resistive ratings. Quick connect terminals and box lugs come standard on all contactors. UL Recognized.

- Direct replacement to most HVAC contactors
- Mounting holes align to 60 amps
- 600VAC max.

Dayton H2664

Dayton H2669

Eaton H4827

Square D H2654

Square D 4B978

No. of Poles	Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Item No.
DAYTON			
Compact Definite Purpose Contactors			
2	40 A	24V AC	**H2667**
Compact Definite Purpose Magnetic Contactors			
2	20 A	24V AC, 120V AC, 208/240V AC	**H2664**
2	25 A	24V AC, 120V AC, 208/240V AC	**H2665**
2	30 A	24V AC, 120V AC	**H2666**
2	40 A	120V AC, 208/240V AC	**H2667**
Compact Definite Purpose Magnetic Contactors With Solid Neutral (Shunted)			
1+N	20 A	24V AC, 120V AC, 208/240V AC	**H2660**
1+N	25 A	24V AC, 120V AC, 208/240V AC	**H2661**
1+N	30 A	24V AC, 120V AC	**H2662**
1+N	40 A	120V AC, 208/240V AC	**H2663**
Standard Definite Purpose Magnetic Contactors			
2	20 A	24V AC, 120V AC, 208/240V AC	**H2668**
2	25 A	24V AC, 120V AC, 208/240V AC	**H2669**
2	32 A	24V AC, 120V AC, 208/240V AC	**H2670** †
2	40 A	24V AC, 120V AC, 208/240V AC	**H2671**
2	75 A	24V AC, 120V AC, 208/240V AC	**H2674**
2	90 A	24V AC, 208/240V AC	**H2675**
3	25 A	120V AC	**H2677**
3	90 A	24V AC	**H2683**
EATON			
Compact Definite Purpose Magnetic Contactors			
1	25 A	24V AC, 120V AC, 208/240V AC	**H4824**
1	30 A	24V AC, 120V AC, 208/240V AC	**H4825**
1	40 A	24V AC, 120V AC, 208/240V AC	**H4826**
2	20 A	24V AC, 120V AC, 208/240V AC	**H4827**
2	25 A	24V AC, 120V AC, 208/240V AC	**H4828**
2	30 A	24V AC, 120V AC, 208/240V AC	**H4829**
2	40 A	24V AC, 120V AC, 208/240V AC	**H4830**
Compact Definite Purpose Magnetic Contactors With Solid Neutral (Shunted)			
1+N	25 A	24V AC, 120V AC, 208/240V AC	**H4831**
1+N	30 A	24V AC, 120V AC, 208/240V AC	**H4832**
1+N	40 A	24V AC, 120V AC, 208/240V AC	**H4833**

No. of Poles	Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	Item No.
Standard Definite Purpose Magnetic Contactors			
3	25 A	24V AC, 120V AC, 208/240V AC	**H4834**
3	30 A	24V AC, 120V AC, 208/240V AC	**H4835**
3	40 A	24V AC, 120V AC, 208/240V AC	**H4836**
3	50 A	24V AC, 120V AC, 208/240V AC	**H4837**
3	60 A	24V AC, 120V AC, 208/240V AC	**H4840**
3	75 A	24V AC, 120V AC, 208/240V AC	**H4841**
3	90 A	24V AC, 120V AC, 208/240V AC	**H4842**
4	25 A	24V AC, 120V AC, 208/240V AC	**H4838**
4	30 A	24V AC, 120V AC, 208/240V AC	**H4839**
SQUARE D			
Compact Definite Purpose Magnetic Contactors			
2	30 A	24V AC, 120V AC, 208/240V AC, 480V AC	**H2637**
2	40 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2638**
Compact Definite Purpose Magnetic Contactors With Solid Neutral (Shunted)			
1+N	30 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2634**
1+N	40 A	24V AC, 208/240V AC, 277V AC	**H2647**
Standard Definite Purpose Magnetic Contactors			
2	30 A	24V AC, 120V AC, 208/240V AC, 277V AC	**H2650**
2	40 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2651**
2	50 A	24V AC, 120V AC, 208/240V AC	**H2639**
2	60 A	120V AC, 208/240V AC	**H2640**
2	75 A	24V AC, 120V AC, 208/240V AC	**H2641**
2	90 A	120V AC, 208/240V AC	**H2642**
3	30 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2654**
3	40 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2655**
3	50 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2643**
3	60 A	24V AC, 120V AC, 208/240V AC, 277V AC, 480V AC	**H2644**
3	75 A	24V AC, 120V AC, 208/240V AC, 480V AC	**H2645**
3	90 A	24V AC, 120V AC, 208/240V AC, 480V AC	**H2646**
4	30 A	24V AC, 120V AC, 208/240V AC, 277V AC	**H2658**
4	40 A	24V AC, 120V AC, 208/240V AC, 277V AC	**H2659**

Description	Brand	Mfr. Model	Item No.
NEMA 1 Enclosures and Accessory			
Fits: 2 and 3 Pole Definite Purpose Contactors, 20 to 40 Amps	Square D	9991DPG1	**4B978**
Fits: 2 and 3 Pole Definite Purpose Contactors 50 to 60 Amps, 4 Pole 20 to 40 Amps	Square D	9991DPG2	**2CG22**
35mm DIN Rail Mounting Bracket for 20 to 60 Amp Contactors	Square D	9999DMB1	**2CG39**

Description	Brand	Mfr. Model	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NO Item No.	2NC Item No.	2NO/2NC Item No.
Auxiliary Contacts*								
For Use with Standard Contactors 50 to 90A	Square D	9999D	**4B973**	**4B972**	**2CG37**	**2CG38**	—	—
For Use with Standard Contactors 2-Pole 50 to 90A, All 3-Pole	Dayton	—	—	—	—	**6GNT7**	**6GNZ8**	—
For Use with DP Contactors 15 to 75A	Eaton	C320	—	—	**49C108**	**49C106**	**49C107**	**49C109**

Description	▶CHOOSE: Voltage	Brand	Mfr. Model	Item No.
Replacement Coils For Standard Contactors*				
For 50 to 60A DP Contactors	24VAC; 120VAC; 208 to 240VAC; 480VAC	Square D	9998DA2	**H3829**
For 75 to 90A DP Contactors	120VAC; 208 to 240VAC	Square D	9998DA3	**H3830**
For 20 to 40A Contactors	24VAC; 120VAC; 208 to 240VAC	Dayton	—	**H3827**
For 50 to 63A Contactors	120VAC	Dayton	—	**H3825**
For 75 to 90A Contactors	24VAC	Dayton	—	**H3826**

** Brands are not interchangeable, match to brand of contactor. † Rated 32A. ‡ Rated 63A.*

H2686

H5238

Definite Purpose Motor Starters

- Melting alloy overload block
- 600VAC max.
- Industry-standard mounting
- 2-pole starters require 1 thermal unit
- 3-pole starters require 3 thermal units
- Match thermal unit code to thermal units on page 166

Quick-connect terminals and binder head screws enable easy straight-through wiring. Trip-free reset mechanism. Double-break contacts. Mechanical life: 500,000 operations. Compact design. Box lugs are standard on 40A and higher models. Auxiliary contact modules snap onto either side of standard models. Suitable for air compressors, agricultural equipment, pumps, food service equipment, and HVACR equipment. UL Recognized and CSA Certified.

							NO ENCLOSURE			NEMA 1 ENCLOSURE		
No. of Poles	Amps AC	▶CHOOSE: Coil Volts	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Thermal Unit Code*	Mfr. Model	Item No.	Thermal Unit Code*	Mfr. Model	Item No.
2	20	120V AC	1½	3	—	—	—	—	**—**	E1	8911DPSG12	**H5238**
2	25 A	120V AC; 208 to 240V AC	2 hp	5 hp	—	—	—	—	**—**	E2	8911DPSG22	**H2690**
2	30 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	2 hp	5 hp	—	—	G3	8911DPSO32	**H2684**	E3	8911DPSG32	**H2691**
2	40 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	3 hp	7 ½ hp	—	—	G4	8911DPSO42	**H2685**	E4	8911DPSG42	**H2692**
3	20 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	1 ½ hp	3 hp	7 ½ hp	7 ½ hp	G1	8911DPSO13	**H2686**	F1	8911DPSG13	**H2693**
3	25 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	2 hp	5 hp	10 hp	15 hp	—	—	**—**	F2	8911DPSG23	**H2694**
3	25 A	120V AC; 208 to 240V AC; 480V AC	2 hp	5 hp	10 hp	15 hp	G2	8911DPSO23	**H2687**	—	—	**—**
3	30 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	2 hp	5 hp	10 hp	15 hp	—	—	**—**	F3	8911DPSG33	**H2695**
3	40 A	24V AC; 120V AC; 208 to 240V AC; 480V AC	3 hp	7 ½ hp	10 hp	20 hp	G4	8911DPSO43	**H2689**	F4	8911DPSG43	**H2696**

Description	Mfr. Model	Item No.
Optional Control Kits		
Start/Stop Push-Button Kit (Requires 1 Normally Open Aux. Contact No. 11D184)	8911DPB1	**3KL81**
Isolated Overload Relay Alarm Contact	9999SO4	**3KK15**

***** See page 166 for codes.**

Contactor
H2702

Motor Starter
H2697

Eaton Enclosed Definite Purpose Contactors and Starters

Dual-rated with inductive and resistive ratings. Quick connect terminals are standard. Contactor design limits dust and other contaminants from magnetic coil. Reduce or eliminate noise. Feature compact design with low VA coil and straight-through wiring. Motor starters require 3 thermal units (1 pkg.), sold separately. UL Listed, CSA and CE Certified. RoHS Compliant.

Full Load Amps (Inductive)	▶CHOOSE: Coil Volts	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	H	W	D	Mfr. Model	Item No.
Enclosed Definite Purpose Contactors , 3-Pole										
15 A	24V AC 120V AC 208/240V AC 480V AC	¾ hp	2 hp	3 hp	5 hp	6.75 in	4.1 in	3.5 in	C25DGD315	**H2702**
25 A		2 hp	3 hp	7 ½ hp	10 hp	6.75 in	4.1 in	3.5 in	C25DGD325	**H2703**
30 A		2 hp	5 hp	10 hp	15 hp	6.75 in	4.1 in	3.5 in	C25DGD330	**H2704**
40 A		3 hp	7 ½ hp	10 hp	20 hp	6.75 in	4.1 in	3.5 in	C25DGF340	**H2705**
50 A		3 hp	10 hp	15 hp	30 hp	6.75 in	4.1 in	3.5 in	C25DGJ350	**H2706**
60 A		5 hp	10 hp	20 hp	40 hp	9.51 in	5.62 in	4.81 in	C25FGF360	**H2707**
Definite Purpose Magnetic Motor Starters , 3-Pole										
25 A	24V AC 120V AC 208 to 240V AC 480V AC	2 hp	3 hp	7 ½ hp	10 hp	10.17 in	5.63 in	5.81 in	A25CGC25	**H2697**
30 A		2 hp	5 hp	10 hp	15 hp	10.17 in	5.63 in	5.81 in	A25CGC30	**H2698**
40 A		3 hp	7 ½ hp	10 hp	20 hp	13.27 in	7.64 in	6.67 in	A25CGE40	**H2699**
50 A		—	—	15 hp	30 hp	13.27 in	7.64 in	6.67 in	A25CGE50	**H2700**
60 A		—	—	20 hp	40 hp	13.27 in	7.64 in	6.67 in	A25CGE60	**H2701**

Thermal Units
6GDX1

Auxiliary Contact
6GDW8

Full Load Amps	Mfr. Model	Item No.
Thermal Units, Freedom Series, For Use with Enclosed Starters Only, Pkg. of 3		
1.79 to 2.9	H2006B-3	**6GDX1**
2.15 to 3.49	H2007B-3	**6GDX2**
3.23 to 5.23	H2008B-3	**6GDX3**
4.55 to 7.4	H2009B-3	**6GDX4**
6.75 to 11	H2010B-3	**6GDX5**
9.14 to 14	H2011B-3	**6GDX6**
14 to 22.8	H2012B-3	**6GDX7**
18.7 to 30.7	H2013B-3	**6GDX8**
23.5 to 38.5	H2014B-3	**6GDX9**
29 to 44.1	H2015B-3	**6GDY0**
39.6 to 57.4	H2016B-3	**6GDY1**
53.9 to 74.9	H2017B-3	**6GDY2**

Amps	Voltage	No. of NO Aux. Contacts	No. of NC Aux. Contacts	Mfr. Model	Item No.
Auxiliary Contacts, Side Mounting					
10 A	600 V AC	1	0	C320KG1	**6GDW8**
10 A	600 V AC	0	1	C320KG2	**6GDW9**
10 A	600 V AC	1	1	C320KG3	**6GDX0**

Vibration Switches

5LUL1

5LUL6

Feature SPDT and DPDT switch options, and are available with or without remote reset and a variety of voltages for the reset coil. Aluminum switches do not require external power to operate, and are explosion-, flame-, and weatherproof. NEMA 4 and 4X. UL and C-UL Listed. Plastic switches feature a weatherproof NEMA 4 housing and are CSA Certified.

Amps	Voltage	Temp. Range (°F)	Frequency Range (Hz)	Horiz. Range	L	W	H	Mfr. Model	Item No.
Aluminum									
0.5-7 Max.	—	-13 to 140	0 to 300	0 to 4.5 G	6 in	6 in	5.13 in	365AA0	**5LUL1**
0.5-7 Max.	120V AC	-13 to 140	0 to 300	0 to 4.5 G	6 in	6 in	5.13 in	365AA8	**5LUL2**
0.5-7 Max.	24V DC	-13 to 140	0 to 300	0 to 4.5 G	6 in	6 in	5.13 in	365AA2	**5LUL3**
5 Max.	24V DC	-13 to 140	0 to 300	0 to 4.5 G	6 in	6 in	5.13 in	365AD2	**5LUL4**
5 Max.	120V AC	-13 to 140	0 to 300	0 to 4.5 G	6 in	6 in	5.13 in	365AD8	**5LUL5**
Aluminum Base, Plastic Cover									
0.5-7 Max.	—	-40 to 200	0 to 300	0 to 4.5 G	5.38 in	3.75 in	3.06 in	366A0	**5LUL6**
0.5-7 Max.	120V AC	-40 to 200	0 to 300	0 to 4.5 G	5.38 in	3.75 in	3.06 in	366A8	**5LUL7**
0.5-7 Max.	24V DC	-40 to 200	0 to 300	0 to 4.5 G	5.38 in	3.75 in	3.06 in	366A2	**5LUL8**
5 Max.	120V AC	-40 to 200	0 to 300	0 to 4.5 G	5.38 in	3.75 in	3.06 in	366D8	**5LUL9**

Amps AC	Voltage	No. of Poles	No. of Wires	NEMA 1 Siemens Mfr. Model	NEMA 1 Siemens Item No.	NEMA 1 Square D Mfr. Model	NEMA 1 Square D Item No.	NEMA 3R Siemens Mfr. Model	NEMA 3R Siemens Item No.	NEMA 3R Square D Mfr. Model	NEMA 3R Square D Item No.
Single-Phase, Fusible, Neutral Assembly Included											
30 A	240V AC	2	3	HF221N	**6GNC7**	H221N	**1H328**	HF221NR	**6GNC8**	H221NRB	**1H329**
60 A	240V AC	2	3	HF222N	**20RA99**	H222N	**1H330**	HF222NR	**20RC04**	H222NRB	**1H331**
100 A	240V AC	2	3	HF223N	**20RC01**	H223N	**1H332**	HF223NR	**20RC05**	H223NRB	**1H333**
200 A	240V AC	2	3	HF224N	**20RC02**	H224N	**1H334**	HF224NR	**20RC06**	H224NRB	**1H335**
Three-Phase, Fusible											
30 A	600V AC	3	3	HF361	**6GND3**	H361	**1H344**	HF361R	**6GND7**	H361RB	**1H349**
60 A	600V AC	3	3	HF362	**20RC23**	H362	**1H350**	HF362R	**20RC29**	H362RB	**1H355**
100 A	600V AC	3	3	HF363	**20RC24**	H363	**1H356**	HF363R	**6GNE2**	H363RB	**1H361**
200 A	600V AC	3	3	HF364	**20RC25**	H364	**1H362**	HF364R	**20RC30**	H364RB	**1H367**
Three-Phase, Fusible, Neutral Assembly Included											
30 A	240V AC	3	4	HF321N	**6GNC9**	H321N	**1H336**	HF321NR	**6GND0**	H321NRB	**1H337**
60 A	240V AC	3	4	HF322N	**6GND1**	H322N	**1H338**	HF322NR	**6GND2**	H322NRB	**1H339**
100 A	240V AC	3	4	HF323N	**20RC03**	H323N	**1H340**	HF323NR	**20RC07**	H323NRB	**1H341**
200 A	240V AC	3	4	HF324N	**31ED29**	H324N	**1H342**	HF324NR	**31ED30**	H324NRB	**1H343**
30 A	600V AC	3	4	HF361N	**6GND5**	H361N	**1H347**	HF361NR	**6GND6**	H361NRB	**1H348**
60 A	600V AC	3	4	HF362N	**6GND9**	H362N	**1H353**	HF362NR	**6GNE0**	H362NRB	**1H354**
100 A	600V AC	3	4	HF363N	**6GNE1**	H363N	**1H359**	HF363NR	**20RC31**	H363NRB	**1H360**
200 A	600V AC	3	4	HF364N	**20RC27**	H364N	**1H365**	HF364NR	**6GNE3**	H364NRB	**1H366**
Three-Phase, Nonfusible											
30 A	600V AC	3	3	HNF361	**6GNE7**	HU361	**1H373**	HNF361R	**6GNE9**	—	—
60 A	600V AC	3	3	HNF362	**6GNF1**	HU362	**1H376**	HNF362R	**20RC33**	HU362RB	**1H378**
100 A	600V AC	3	3	HNF363	**13Z538**	HU363	**1H379**	HNF363R	**6GNF2**	HU363RB	**1H381**
200 A	600V AC	3	3	HNF364	**13Z539**	HU364	**1H382**	HNF364R	**31ED51**	HU364RB	**1H384**
30 A	600V AC/DC	3	3	—	—	—	—	—	—	HU361RB	**1H375**

Amps AC	Voltage	No. of Poles	No. of Wires	NEMA 3R Square D Mfr. Model	NEMA 3R Square D Item No.	NEMA 12 Square D Mfr. Model	NEMA 12 Square D Item No.	NEMA 4, 4X, 5 Square D Mfr. Model	NEMA 4, 4X, 5 Square D Item No.
Three-Phase, Nonfusible									
30 A	600V AC	3	3	—	—	HU361AWK	**2CR39**	HU361DS	**1H374**
60 A	600V AC	3	3	—	—	HU362AWK	**2CR52**	HU362DS	**1H377**
100 A	600V AC	3	3	—	—	HU363AWK	**2CR60**	HU363DS	**1H380**
200 A	600V AC	3	3	—	—	HU364AWK	**2CR65**	HU364DS	**1H383**
400 A	600V AC	3	3	—	—	HU365AWK	**2JYD6**	HU365DS	**2JYD7**
Three-Phase, Nonfusible, Neutral Assembly Included									
30 A	600V AC	3	4	HU361NRB	**2JXV2**	HU361NAWK	**2JXX4**	—	—
60 A	600V AC	3	4	—	—	HU362NAWK	**2JYR8**	—	—
100 A	600V AC	3	4	HU363NRB	**2JWR1**	HU363NAWK	**2JWE5**	—	—
200 A	600V AC	3	4	HU364NRB	**2JXP9**	HU364NAWK	**2JXJ6**	—	—

Siemens
20RA99

Square D
1H344

SQUARE D by Schneider Electric SIEMENS

Heavy-Duty Safety Switches

Higher amp ratings and NEMA 4X and 12 enclosures are available on Grainger.com®.

NOTE: 600V 30 to 200A switches are field adjustable for Class J fuses.

SIEMENS

Designed with quick-make, quick-break switching action for severe applications. Feature highly visible self-aligning blades to ensure positive contact and highly visible On/Off handle indication. Padlockable cover latch and handle.

SQUARE D

Designed to withstand short circuits up to 200kA rating when used with, or protected by, Class R fuses with Class R kits installed (this page). See Class RK5 fuses on page 178. Switches meet NEMA Standards KS1-1990, Enclosed Switches, and UL 98. UL Listed.

SQUARE D by Schneider Electric

Safety Switch Accessories

Description	30 AMP Item No.	60 AMP Item No.	100 AMP Item No.	200 AMP Item No.
Interlock Kit, for All General Duty (30 to 200A) and Heavy-Duty Switches				
1NO/1NC	**5JV22**	**2CP56**	**2CP56**	**2CP56**
2NO/2NC	**5JV23**	**2CP57**	**2CP57**	**2CP57**
Ground Bar Kit				
General Duty	**5B717**	**5B717**	—	—
Equipment Ground Kit				
Heavy Duty	**2GND8**	**2BW64**	**2BW64**	**2DH17**
Double Throw	**1H313**	**Included**	**Included**	**1H312**
General Duty	—	—	**2BW64**	**2DH17**
Neutral Assembly For Double Throw and Heavy-Duty Switches				
Heavy Duty	**6NU11**	**2GNE5**	**2GNE5**	—
Double Throw	**2GNE3**	**2GNE3**	**2GNE3**	—
Fuse Kits				
Class R	**6NU10**	**2GNF1**	**2CR86**	**1H368**

½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Hubs, Chrome Plated Watertight for NEMA 4X and NEMA 12 Disconnect Switches					
1H324	**1H325**	**1H326**	—	—	—
Bolt-On Hubs for NEMA 3R Disconnect Switches					
—	**1H301**	**1H302**	**1H303**	**1H304**	**1H305**

2BW64

1H312

6NU11

2DH17

1H326

1H301

Amps	NEMA Encl. Type	W	H	D	Mfr. Model	Item No.
Switched Twist-Lock® Enclosure (Receptacles Not Included)						
30 A	12K, 3R	4.9 in	11.4 in	4.2 in	SETL3	**6C655**
Mechanical Interlock for Safety Shroud Twist-Locks						
30 A	12K, 4, 4X	4.9 in	11.4 in	4.2 in	HBLMITL	**4CV76**
Circuit-Lock Disconnect Switches, 3-Pole						
30 A	12K, 4, 4X	5.1 in	7.6 in	4.1 in	HBLDS3	**3D383**
30 A	12K, 4, 4X	5.1 in	7.6 in	4.1 in	HBLDS3AC	**2EAV9** *
30 A	12K, 4, 4X	5.1 in	7.6 in	4.1 in	HBLDS33ACNK	**2EAV8** *†
30 A	12K, 4, 4X	4.9 in	7 in	5.4 in	HBLDS3SS	**36L204**
60 A	12K, 4, 4X	6.9 in	10 in	5.9 in	HBLDS6	**4CV74**
60 A	12K, 4, 4X	6.9 in	10 in	5.9 in	HBLDS6AC	**2EAW3** *
100 A	12K, 4, 4X	6.9 in	10 in	5.9 in	HBLDS10	**2EAV6**
100 A	12K, 4, 4X	6.9 in	10 in	5.9 in	HBLDS10AC	**4CV73** *
Fused Switched Safety Enclosure, 3-Pole, Use with Class J Fuses						
30 A	12K, 4, 4X	11.5 in	15 in	7.3 in	FDS30	**3D340**
60 A	12K, 4, 4X	11.5 in	15 in	7.3 in	FDS60	**2EAU7**
Circuit-Lock® Accessories						
Auxiliary Contact; Break After Break; 30, 60, and 100 Amp; Max Voltage 600; For Use With 3D383, 4CV74, and 2EAV6					HBLAC1	**2EAV4**
Auxiliary Contact; Break Before Break; 30, 60, and 100 Amp; Max Voltage 600; For Use With 3D383, 4CV74, and HBLDS11					HBLAC2	**2EAV5**
NEMA 4X; Replacement Cover; Nonfused; 100 Amp					HBLDS10RC	**2EAV7**
NEMA 4X; Replacement Cover; Nonfused; 30 Amp					HBLDS3RC	**2EAW1**
NEMA 4X; Replacement Cover; Nonfused; 60 Amp					HBLDS6RC	**2EAW4**
Replacement Switch; Nonfused; 30 Amp; Max Voltage 600					HBLDS3RS	**2EAW2**

** Includes 3D305 Auxiliary Contact Kit preinstalled. † Without knockouts.*

HUBBELL® Wiring Device-Kellems

Switched Enclosures

TWIST-LOCK® ENCLOSURE

Nonmetallic enclosure has large, replaceable, gasketless door and hinge assembly for easy access and weatherproofing. Receptacle not included; order separately. Use with any NEMA rated 2-pole, 3-wire to 4-pole, 5-wire Twist-Lock® receptacle.

CIRCUIT-LOCK® DISCONNECT SWITCH ENCLOSURES

Nonmetallic enclosures have strong, galvanized steel internal frame that bonds grounds and a watertight conduit fitting. They enclose disconnect switches that provide On/Off switched control of direct-wired motor loads.

3D383

1H245

5XHP9

6HD95

Air Conditioning Disconnect Switches

For indoor or outdoor use.

Amps AC	Voltage	Short Circuit Protection	For Use With	Max. HP @ 240V	W	H	D	Brand	Mfr. Model	Item No.
Polycarbonate										
30 A	240V AC	Fuse	Class RK1 Fuse	3 hp	5 in	8 45/64 in	3 1/2 in	Eaton	ACD221RNM-A2	**5XHR5**
60 A	240V AC	None	—	10 hp	5 in	8 45/64 in	3 1/2 in	Eaton	ACD222URNM-A2	**5XHR3**
60 A	240V AC	Fuse	Class RK1 Fuse	10 hp	5 in	8 45/64 in	3 1/2 in	Eaton	ACD222RNM-A2	**5XHR4**
60 A	240V AC	Circuit Breaker	—	10 hp	6 1/2 in	8 4/5 in	3 29/32 in	Square D	QO200TRNM	**6HD95**
Galvanized Steel										
30 A	240V AC	Fuse	Class H Fuse	3 hp	5 13/32 in	8 45/64 in	3 13/64 in	Eaton	DPF221R	**5XHR1**
60 A	240V AC	None	—	10 hp	4 39/64 in	6 1/2 in	3 29/32 in	Square D	QO200TR	**1H245**
60 A	240V AC	None	—	10 hp	5 13/32 in	8 45/64 in	3 13/64 in	Eaton	DPU222R	**5XHP9**
60 A	240V AC	None	—	10 hp	6 39/64 in	11 39/64 in	4 13/32 in	Eaton	DPU222RGF20	**5XHR2** *
60 A	240V AC	Fuse	Class H Fuse	10 hp	5 13/32 in	8 45/64 in	3 13/64 in	Eaton	DPF222R	**5XHR0**

** Includes 20A GFCI receptacle.*

55CH38

2DP81

General-Duty Safety Switches

Fast and reliable switches are primarily intended for use with circuits where the available current is less than 100,000A when used with Class R or T fuses or 10,000A max. used with Class H fuses. Feature quick–make, quick-break, and visible blade switching action. Padlockable in OFF position and door in closed position. Suitable for use as service entrance equipment. Require equipment grounding kit; see page 175. Switches meet UL 98. UL Listed.

					NEMA 1				NEMA 3R			
					Siemens		Square D		Siemens		Square D	
Amps AC	Voltage	No. of Poles	No. of Wires	For Use With	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Single-Phase, Nonfusible												
30 A	240V AC	2	2	Class H, R, T Fuse	—	—	—	—	GNF221RA	**55CH54**	—	—
30 A	240V AC	2	2	—	GNF221A	**55CH43**	—	—	—	—	DU221RB	**1H259**
60 A	240V AC	2	2	Class H, R, T Fuse	GNF222A	**55CH53**	—	—	—	—	—	—
60 A	240V AC	2	2	—	—	—	—	—	LNF222RA	**55CH42**	DU222RB	**2CL85**
60 A	240V AC	2	2	—	—	—	—	—	GNF222RA	**55CH52**	—	—
Single-Phase, Fusible												
30 A	240V AC	2	3	Plug Style Fuse	—	—	D211N	**1H246**	—	—	D211NRB	**2JXU1**
30 A	240V AC	2	3	Class H, R, T Fuse	GF221NA	**55CH51**	—	—	GF221NRA	**55CH50**	—	—
30 A	240V AC	2	3	Class H, K, R, T Fuse	—	—	D221N	**1H247**	—	—	D221NRB	**1H248**
60 A	240V AC	2	3	Class H, R, T Fuse	GF222NA	**55CH49**	—	—	GF222NRA	**55CH48**	—	—
60 A	240V AC	2	3	Class H, K, R, T Fuse	—	—	D222N	**1H249**	—	—	D222NRB	**1H250**
100 A	240V AC	2	3	Class H, K, R, T Fuse	GF223N	**6FNF6**	D223N	**5B662**	GF223NR	**6FNF7**	D223NRB	**1H251**
200 A	240V AC	2	3	Class H, K, R Fuse	—	—	—	—	—	—	D224NRB	**2CL72**
200 A	240V AC	2	3	Class H, K, R, T Fuse	—	—	D224N	**2CL71**	—	—	—	—
Single-Phase with Circuit Breaker												
100 A	240V AC	2	2	—	—	—	QO2000NS	**2DP82** *	—	—	QO2000NRB	**2DP81** *
Three-Phase, Nonfusible												
30 A	240V AC	3	3	—	GNF321A	**55CH41**	DU321	**1H260**	GNF321RA	**55CH40**	DU321RB	**1H261**
60 A	240V AC	3	3	—	GNF322A	**55CH39**	DU322	**1H262**	GNF322RA	**55CH38**	DU322RB	**1H263**
100 A	240V AC	3	3	—	—	—	DU323	**1H264**	—	—	DU323RB	**1H265**
200 A	240V AC	3	3	—	—	—	DU324	**2JYW1**	—	—	DU324RB	**2CL87**
Three-Phase, Fusible												
30 A	240V AC	3	4	Class H, R, T Fuse	GF321NA	**55CH47**	—	—	GF321NRA	**55CH46**	—	—
30 A	240V AC	3	4	Class H, K, R, T Fuse	—	—	D321N	**1H252**	—	—	D321NRB	**1H253**
60 A	240V AC	3	4	Class H, R, T Fuse	GF322NA	**55CH45**	—	—	GF322NRA	**55CH44**	—	—
60 A	240V AC	3	4	Class H, K, R, T Fuse	—	—	D322N	**1H254**	—	—	D322NRB	**1H255**
100 A	240V AC	3	4	Class H, K, R, T Fuse	—	—	D323N	**1H256**	GF323NR	**6FNG2**	D323NRB	**1H257**
200 A	240V AC	3	4	Class H, K, R, T Fuse	GF324N	**6FNG3**	D324N	**1H258**	GF324NR	**6FNG4**	D324NRB	**2CL77**

Description	Voltage	Mfr. Model	Item No.
Siemens Safety Switch Accessories			
10 A Auxiliary Contact, 1NO/1NC	240V	HA161234	**6FNG9**
0.5 A Neutral Kit	600V	HN612	**6GNE4**
0.6 A Neutral Kit	600V	HN623	**6GNE5**
200 A Neutral Kit	600V	HN64	**6GNE6**
30A Fuse Rejection Kit, Class R	240V AC	HR21	**6GNF3**
30/60A Fuse Rejection Kit, Class R	240/600V AC	HR612	**6GNF4**
60A Fuse Rejection Kit, Class R	600V AC	HR62	**6GNF5**
100A Fuse Rejection Kit, Class R	600V AC	HR63	**6GNF6**
200A Fuse Rejection Kit, Class R	600V AC	HR64	**6GNF7**

** Includes circuit breaker.*

Double-Throw Safety Switches

Each switch is continuous-duty rated for its nameplate ampere value. Equipment grounding kits are available for service equipment and included in 30 to 100A DTU devices. NEMA Type 3R switches use bolt-on hubs; see page 175. All switches meet UL 98 Standard for Safety, Enclosed, and Dead Front Switches, and meet or exceed NEMA Standard KS1-1990.

1H299

			NONFUSIBLE				FUSIBLE			
			NEMA 1		NEMA 3R		NEMA 1		NEMA 3R	
Amps AC	HP	Voltage	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
2-Pole										
30 A	—	240V AC	92251	**1H299**	—	—	—	—	—	—
60 A	10 hp @ 240V AC	240V AC/DC	DTU222	**1MN30**	—	—	—	—	—	—
100 A	15 hp @ 240V AC	240V AC/DC	DTU223	**1MN31**	DTU223RB	**1MN40**	DT223	**2JWC3**	DT223RB	**2JWC5**
200 A	15 hp @ 240V AC	240V AC/DC	—	—	DTU224NRB	**2JYV9**	—	—	—	—
3-Pole										
30 A	10 hp @ 240V AC	240V AC	DTU321	**1MN32**	—	—	DT321	**2JXV8**	DT321RB	**2JXW1**
30 A	20 hp @ 600V AC	600V AC	—	—	—	—	DT361	**2JXW3**	DT361RB	**2JXW5**
30 A	30 hp @ 600V AC	600V AC	DTU361	**1MN35**	DTU361RB	**41V405**	—	—	—	—
60 A	15 hp @ 240V AC	240V AC	DTU322	**1MN33**	—	—	DT322	**2JYP7**	DT322RB	**2JYP8**
60 A	50 hp @ 600V AC	600V AC	DTU362	**1MN36**	DTU362RB	**1MN43**	DT362	**2JYP9**	—	—
100 A	30 hp @ 240V AC	240V AC	DTU323	**1MN34**	DTU323RB	**1MN41**	DT323	**2JWC7**	DT323RB	**2JWC9**
100 A	75 hp @ 600V AC	600V AC	DTU363	**1MN37**	DTU363RB	**1MN44**	DT363	**2JWD2**	DT363RB	**2JWD4**
200 A	15 hp @ 240V AC	240V AC	82354	**1H298**	DTU324NRB	**1H317**	—	—	—	—
200 A	15 hp @ 480V AC	480V AC	82344	**1H294**	82344RB	**1H295**	—	—	—	—
4-Pole										
100 A	75 hp @ 600V AC	600V AC	DTU463	**41V407**	—	—	—	—	—	—

35JF51

13E228

IEC Disconnect Switches

Switches are suitable for use as a motor disconnect. “On/Off” indicator and built-in handle interlock that prevents cover removal in “On” position. OSHA lockout/tagout compatible and accepts up to three 8mm padlocks. UL Listed.

Amps	No. of Poles	No. of Wires	NEMA Encl. Type	Brand	RED HANDLE Item No.	RED HANDLE WITH KNOCKOUTS Item No.	BLACK HANDLE Item No.	BLACK HANDLE WITH KNOCKOUTS Item No.
25 A	3	3	12, 3R	Hoffman	**35JF51**	**35JF55**	**35JF59**	**35JF63**
30 A	3	4	1, 12, 3R, 4, 4X	Square D	**13E228**	—	—	—
32 A	3	3	12, 3R	Hoffman	**35JF52**	**35JF56**	**35JF60**	**35JF64**
50 A	3	3	12, 3R	Hoffman	**35JF53**	**35JF57**	**35JF61**	**35JF65**
60 A	3	4	1, 12, 3R, 4, 4X	Square D	**13E229**	—	—	—
63 A	3	3	12, 3R	Hoffman	**35JF54**	**35JF58**	**35JF62**	**35JF66**

Class RK1

These fuses are more current-limiting than RK5 fuses to react more quickly to overcurrent. They have a rejection feature that prevents an accidental downgrade from a current-limiting system.

1DG46

Fuse Size Chart

Amps	Length (in.)	Dia. (in.)	Amps	Length (in.)	Dia. (in.)
250VAC			**600VAC**		
1/10-30	2	9/16	1/10-30	5	13/16
35-60	3	13/16	35-60	5 1/2	1 1/16
70-100	5 7/8	1 1/16	70-100	7 7/8	1 1/8
110-200	7 1/8	1 9/16	110-200	9 5/8	1 19/32
225-400	8 5/8	2 3/8	225-400	11 5/8	2 3/8
450-600	10 3/8	2 7/8	450-600	13 3/8	2 7/8

Amps	Series	Brand	Item No.
250V AC Time-Delay UL Class RK1 Fuses, Nonindicating			
Equivalent Series A2D-R, LLNRK, LPN-RK-SP			
Cylindrical Body Style			
1/10	A2D-R	Mersen	4TAV4
15/100	A2D-R	Mersen	4TAV5
2/10	A2D-R	Mersen	4TAV6
3/10	A2D-R	Mersen	4TAV7
4/10	A2D-R	Mersen	4TAV8
1/2	LPN-RK-SP	Bussmann	1DG98
1/2	A2D-R	Mersen	4TAV9
6/10	LPN-RK-SP	Bussmann	1DH16
6/10	A2D-R	Mersen	4TAW1
8/10	LPN-RK-SP	Bussmann	1DH19
8/10	A2D-R	Mersen	4TAW2
1 1/4	LPN-RK-SP	Bussmann	1DG92
1 6/10	LPN-RK-SP	Bussmann	1DG95
1	LPN-RK-SP	Bussmann	1DH01
1 1/8	LPN-RK-SP	Bussmann	49ZV03
1	A2D-R	Mersen	4TAW3
1 1/8	A2D-R	Mersen	4TAW4
1 1/4	A2D-R	Mersen	4TAW5
1 4/10	A2D-R	Mersen	4TAW6
1 6/10	A2D-R	Mersen	4TAW7
1 8/10	A2D-R	Mersen	4TAW8
1 8/10	LPN-RK-SP	Bussmann	4TWU8
1	LLNRK	Littelfuse	486N04
2 1/2	LPN-RK-SP	Bussmann	1DH02
2 8/10	LPN-RK-SP	Bussmann	1DH04
2	LPN-RK-SP	Bussmann	1DH06
2	A2D-R	Mersen	4TAW9
2 1/4	A2D-R	Mersen	4TAX1
2 1/2	A2D-R	Mersen	4TAX2
2 8/10	A2D-R	Mersen	4TAX3
2	LLNRK	Littelfuse	486N05
3 1/2	LPN-RK-SP	Bussmann	1DH07
3 2/10	LPN-RK-SP	Bussmann	1DH08
3	LPN-RK-SP	Bussmann	1DH09
3	A2D-R	Mersen	4TAX4
3 2/10	A2D-R	Mersen	4TAX5
3 1/2	A2D-R	Mersen	4TAX6
3	LLNRK	Littelfuse	486N06
4 1/2	LPN-RK-SP	Bussmann	1DH10
4	A2D-R	Mersen	4TAX7
4 1/2	A2D-R	Mersen	4TAX8
4	LPN-RK-SP	Bussmann	4TWX1
5 6/10	LPN-RK-SP	Bussmann	1DH13
5	LPN-RK-SP	Bussmann	1DH14
5	A2D-R	Mersen	4TAX9
5 6/10	A2D-R	Mersen	4TAY1
5	LLNRK	Littelfuse	486N07
6 1/4	LPN-RK-SP	Bussmann	1DH15
6	LPN-RK-SP	Bussmann	1DH18
6	A2D-R	Mersen	4TAY2
6 1/4	A2D-R	Mersen	4TAY3
6	LLNRK	Littelfuse	486N08
7	A2D-R	Mersen	4TAY4
8	LPN-RK-SP	Bussmann	1DH20
8	LLNRK	Littelfuse	486N09
9	LPN-RK-SP	Bussmann	1DH21
10	LPN-RK-SP	Bussmann	4XF52
10	LLNRK	Littelfuse	486N10
12	LPN-RK-SP	Bussmann	6F311
15	LPN-RK-SP	Bussmann	4XF53
15	LLNRK	Littelfuse	486N11
17 1/2	LPN-RK-SP	Bussmann	6F312
20	LPN-RK-SP	Bussmann	4XF54
20	LLNRK	Littelfuse	486N12
25	LPN-RK-SP	Bussmann	4XF55
25	LLNRK	Littelfuse	486N13
30	LPN-RK-SP	Bussmann	4XF56
30	LLNRK	Littelfuse	486N14
35	LPN-RK-SP	Bussmann	6F313
35	LLNRK	Littelfuse	486N15
40	LPN-RK-SP	Bussmann	6F314
40	LLNRK	Littelfuse	486N16
45	LPN-RK-SP	Bussmann	6F315
45	LLNRK	Littelfuse	486N17
50	LPN-RK-SP	Bussmann	4XF57
50	LLNRK	Littelfuse	486N18
60	LPN-RK-SP	Bussmann	4XF58
60	LLNRK	Littelfuse	486N19
Blade Body Style			
70	LPN-RK-SP	Bussmann	4XF59
70	LLNRK	Littelfuse	486N20
80	LPN-RK-SP	Bussmann	4XF60
80	LLNRK	Littelfuse	486N21
90	LPN-RK-SP	Bussmann	6F316
90	LLNRK	Littelfuse	486N22
100	LPN-RK-SP	Bussmann	4XF61
100	LLNRK	Littelfuse	486N23
110	LPN-RK-SP	Bussmann	6F317
110	LLNRK	Littelfuse	486N24
125	LPN-RK-SP	Bussmann	4XF62
125	LLNRK	Littelfuse	486N25
150	LPN-RK-SP	Bussmann	4XF63
150	LLNRK	Littelfuse	486N26
175	LPN-RK-SP	Bussmann	4XF64
175	LLNRK	Littelfuse	486N27
200	LPN-RK-SP	Bussmann	4XF65
200	LLNRK	Littelfuse	486N28
225	LPN-RK-SP	Bussmann	4XF66
250	LPN-RK-SP	Bussmann	6F318
250	LLNRK	Littelfuse	486N29
300	LPN-RK-SP	Bussmann	4XF67
300	LLNRK	Littelfuse	486N30
350	LPN-RK-SP	Bussmann	4TWU9
400	LPN-RK-SP	Bussmann	4XF68
400	LLNRK	Littelfuse	486N31
500	LPN-RK-SP	Bussmann	6F321
600	LPN-RK-SP	Bussmann	6F322
600	LLNRK	Littelfuse	486N32
600V AC Time-Delay UL Class RK1 Fuses, Nonindicating			
Equivalent Series A6D-R, LLSRK, LPS-RK-SP			
Cylindrical Body Style			
1/10	A6D-R	Mersen	4TCD1
15/100	A6D-R	Mersen	4TCD2
2/10	A6D-R	Mersen	4TCD3
3/10	A6D-R	Mersen	4TCD4
4/10	LPS-RK-SP	Bussmann	1CL68
4/10	A6D-R	Mersen	4TCD5
1/2	LPS-RK-SP	Bussmann	1BW73
1/2	A6D-R	Mersen	4TCD6
6/10	A6D-R	Mersen	4TCD7
8/10	A6D-R	Mersen	4TCD8
8/10	LPS-RK-SP	Bussmann	4TWX3
1 1/2	LPS-RK-SP	Bussmann	1BW66
1 1/4	LPS-RK-SP	Bussmann	1BW67
1 4/10	LPS-RK-SP	Bussmann	1BW69
1 6/10	LPS-RK-SP	Bussmann	1BW70
1 8/10	LPS-RK-SP	Bussmann	1BW71
1	LPS-RK-SP	Bussmann	1BW74
1	A6D-R	Mersen	4TCD9
1 1/8	A6D-R	Mersen	4TCE1
1 1/4	A6D-R	Mersen	4TCE2
1 4/10	A6D-R	Mersen	4TCE3
1 6/10	A6D-R	Mersen	4TCE4
1 8/10	A6D-R	Mersen	4TCE5
1 1/8	LPS-RK-SP	Bussmann	4TWX2
2 1/2	LPS-RK-SP	Bussmann	1CL58
2 1/4	LPS-RK-SP	Bussmann	1CL59
2 8/10	LPS-RK-SP	Bussmann	1CL60
2	LPS-RK-SP	Bussmann	1CL62
2	A6D-R	Mersen	4TCE6
2 1/4	A6D-R	Mersen	4TCE7
2 1/2	A6D-R	Mersen	4TCE8
2 8/10	A6D-R	Mersen	4TCE9
2	LLSRK	Littelfuse	486N33
3 1/2	LPS-RK-SP	Bussmann	1CL63
3 2/10	LPS-RK-SP	Bussmann	1CL64
3	LPS-RK-SP	Bussmann	1CL66
3	A6D-R	Mersen	4TCF1
3 2/10	A6D-R	Mersen	4TCF2
3 1/2	A6D-R	Mersen	4TCF3
3	LLSRK	Littelfuse	486N34
4 1/2	LPS-RK-SP	Bussmann	1CL67
4	LPS-RK-SP	Bussmann	1CL69
4	A6D-R	Mersen	4TCF4
4 1/2	A6D-R	Mersen	4TCF5
5	LPS-RK-SP	Bussmann	1BW75
5 6/10	LPS-RK-SP	Bussmann	1CL70
5	A6D-R	Mersen	4TCF6
5 6/10	A6D-R	Mersen	4TCF7
5	LLSRK	Littelfuse	486N35
6 1/4	LPS-RK-SP	Bussmann	1BW76
6	LPS-RK-SP	Bussmann	1BW77
6	A6D-R	Mersen	4TCF8
6 1/4	A6D-R	Mersen	4TCF9
6	LLSRK	Littelfuse	486N36
7	LPS-RK-SP	Bussmann	1BW78
7	A6D-R	Mersen	4TCG1
7	LLSRK	Littelfuse	486N37
8	LPS-RK-SP	Bussmann	1BW80
9	LPS-RK-SP	Bussmann	1EM24
10	LPS-RK-SP	Bussmann	4XF69
10	LLSRK	Littelfuse	486N38
12	LPS-RK-SP	Bussmann	4XF70
15	LPS-RK-SP	Bussmann	4XF71
15	LLSRK	Littelfuse	486N39
17 1/2	LPS-RK-SP	Bussmann	4XF72
20	LPS-RK-SP	Bussmann	4XF73
20	LLSRK	Littelfuse	486N40
25	LPS-RK-SP	Bussmann	4XF74
25	LLSRK	Littelfuse	486N41
30	LPS-RK-SP	Bussmann	4XF75
30	LLSRK	Littelfuse	486N42
35	LPS-RK-SP	Bussmann	6F323
35	LLSRK	Littelfuse	486N43
40	LPS-RK-SP	Bussmann	4XF76
40	LLSRK	Littelfuse	486N44
45	LPS-RK-SP	Bussmann	6F324
45	LLSRK	Littelfuse	486N45
50	LPS-RK-SP	Bussmann	4XF77
50	LLSRK	Littelfuse	486N46
60	LPS-RK-SP	Bussmann	4XF78
60	LLSRK	Littelfuse	486N47
Blade Body Style			
70	LPS-RK-SP	Bussmann	4XF79
70	LLSRK	Littelfuse	486N48
80	LPS-RK-SP	Bussmann	6F325
80	LLSRK	Littelfuse	486N49
90	LPS-RK-SP	Bussmann	6F326
90	LLSRK	Littelfuse	486N50
100	LPS-RK-SP	Bussmann	4XF80
100	LLSRK	Littelfuse	486N51
110	LPS-RK-SP	Bussmann	6F327
110	LLSRK	Littelfuse	486N52
125	LPS-RK-SP	Bussmann	4XF81
125	LLSRK	Littelfuse	486N53
150	LPS-RK-SP	Bussmann	6F328
150	LLSRK	Littelfuse	486N54
175	LPS-RK-SP	Bussmann	6F329
175	LLSRK	Littelfuse	486N55
200	LPS-RK-SP	Bussmann	4XF82
200	LLSRK	Littelfuse	486N56
225	LPS-RK-SP	Bussmann	6F330
225	LLSRK	Littelfuse	486N57
250	LPS-RK-SP	Bussmann	6F331
250	LLSRK	Littelfuse	486N58
300	LPS-RK-SP	Bussmann	6F332
300	LLSRK	Littelfuse	486N59
350	LPS-RK-SP	Bussmann	6F333
350	LLSRK	Littelfuse	486N60
400	LPS-RK-SP	Bussmann	4XF83
400	LLSRK	Littelfuse	486N61
450	LPS-RK-SP	Bussmann	6F334
500	LPS-RK-SP	Bussmann	6F335
600	LPS-RK-SP	Bussmann	4XF84
250V AC Time-Delay UL Class RK1 Fuses, Indicating			
Equivalent Series A2D-R, LLNRK, LPN-RK-SP			
Cylindrical Body Style			
8	A2D-R	Mersen	4TAY5
9	A2D-R	Mersen	4TAY6
10	A2D-R	Mersen	4TAY7
12	A2D-R	Mersen	4TAY8
15	A2D-R	Mersen	4TAY9
17 1/2	A2D-R	Mersen	4TAZ1
20	A2D-R	Mersen	4TAZ2
25	A2D-R	Mersen	4TAZ3
30	A2D-R	Mersen	4TAZ4
35	LPN-RK-SPI	Bussmann	2AAJ9
35	A2D-R	Mersen	4TAZ5
40	LPN-RK-SPI	Bussmann	1PVT3
40	A2D-R	Mersen	4TAZ6
45	LPN-RK-SPI	Bussmann	1PVT5
45	A2D-R	Mersen	4TAZ7
50	LPN-RK-SPI	Bussmann	1PVT7
50	A2D-R	Mersen	4TAZ8
60	LPN-RK-SPI	Bussmann	1PVU1
60	A2D-R	Mersen	4TAZ9
Blade Body Style			
70	A2D-R	Mersen	4TCA1
70	LPN-RK-SPI	Bussmann	5NLE4
75	A2D-R	Mersen	4TCA2
80	A2D-R	Mersen	4TCA3
80	LPN-RK-SPI	Bussmann	5NLE5
90	A2D-R	Mersen	4TCA4
90	LPN-RK-SPI	Bussmann	5NLE6
100	A2D-R	Mersen	4TCA5
100	LPN-RK-SPI	Bussmann	5NLE3
110	LPN-RK-SPI	Bussmann	2AAH9
110	A2D-R	Mersen	4TCA6
125	LPN-RK-SPI	Bussmann	2AAJ1
125	A2D-R	Mersen	4TCA7
150	LPN-RK-SPI	Bussmann	2AAJ2
150	A2D-R	Mersen	4TCA8
175	LPN-RK-SPI	Bussmann	2AAJ3
175	A2D-R	Mersen	4TCA9
200	LPN-RK-SPI	Bussmann	2AAJ4
200	A2D-R	Mersen	4TCC1
225	LPN-RK-SPI	Bussmann	2AAJ5
225	A2D-R	Mersen	4TCC2
250	LPN-RK-SPI	Bussmann	2AAJ6
250	A2D-R	Mersen	4TCC3
300	LPN-RK-SPI	Bussmann	2AAJ7
300	A2D-R	Mersen	4TCC4
350	LPN-RK-SPI	Bussmann	2AAJ8
350	A2D-R	Mersen	4TCC5
400	LPN-RK-SPI	Bussmann	1PVT1
400	A2D-R	Mersen	4TCC6
450	LPN-RK-SPI	Bussmann	1PVT4
450	A2D-R	Mersen	4TCC7
500	LPN-RK-SPI	Bussmann	1PVT6
500	A2D-R	Mersen	4TCC8
600	LPN-RK-SPI	Bussmann	1PVT9
600	A2D-R	Mersen	4TCC9
600V AC Time-Delay UL Class RK1 Fuses, Indicating			
Equivalent Series A6D-R, LLSRK, LPS-RK-SP			
Cylindrical Body Style			
6 1/4	LPS-RK-SPI	Bussmann	1PWB2
6	LPS-RK-SPI	Bussmann	1PWB3
7	LPS-RK-SPI	Bussmann	2ABU2
8	LPS-RK-SPI	Bussmann	2ABU4
8	A6D-R	Mersen	4TCG2
9	LPS-RK-SPI	Bussmann	2ABU6
9	A6D-R	Mersen	4TCG3
10	LPS-RK-SPI	Bussmann	1PVU7
10	A6D-R	Mersen	4TCG4
12	LPS-RK-SPI	Bussmann	1PVX2
12	A6D-R	Mersen	4TCG5
15	LPS-RK-SPI	Bussmann	1PVX4
15	A6D-R	Mersen	4TCG6
17 1/2	LPS-RK-SPI	Bussmann	1PVX5
17 1/2	A6D-R	Mersen	4TCG7
20	LPS-RK-SPI	Bussmann	1PVX9
20	A6D-R	Mersen	4TCG8
25	LPS-RK-SPI	Bussmann	1PVZ4
25	A6D-R	Mersen	4TCG9
30	LPS-RK-SPI	Bussmann	1PVZ6
30	A6D-R	Mersen	4TCH1
35	LPS-RK-SPI	Bussmann	1PVZ9
35	A6D-R	Mersen	4TCH2
40	LPS-RK-SPI	Bussmann	1PWA2
40	A6D-R	Mersen	4TCH3
45	LPS-RK-SPI	Bussmann	1PWA5
45	A6D-R	Mersen	4TCH4
50	LPS-RK-SPI	Bussmann	1PWA7
50	A6D-R	Mersen	4TCH5
60	LPS-RK-SPI	Bussmann	1PWB1
60	A6D-R	Mersen	4TCH6
Blade Body Style			
70	A6D-R	Mersen	4TCH7
70	LPS-RK-SPI	Bussmann	5NLE7
80	LPS-RK-SPI	Bussmann	2ABU3
80	A6D-R	Mersen	4TCH8
90	A6D-R	Mersen	4TCH9
90	LPS-RK-SPI	Bussmann	5NLE8
100	LPS-RK-SPI	Bussmann	1PVU6
100	A6D-R	Mersen	4TCJ1
110	LPS-RK-SPI	Bussmann	1PVU8
110	A6D-R	Mersen	4TCJ2
125	LPS-RK-SPI	Bussmann	1PVX1
125	A6D-R	Mersen	4TCJ3
150	LPS-RK-SPI	Bussmann	1PVX3
150	A6D-R	Mersen	4TCJ4
175	LPS-RK-SPI	Bussmann	1PVX7
175	A6D-R	Mersen	4TCJ5
200	LPS-RK-SPI	Bussmann	1PVX8
200	A6D-R	Mersen	4TCJ6
225	LPS-RK-SPI	Bussmann	1PVZ1
225	A6D-R	Mersen	4TCJ7
250	LPS-RK-SPI	Bussmann	1PVZ3
250	A6D-R	Mersen	4TCJ8
300	LPS-RK-SPI	Bussmann	1PVZ5
300	A6D-R	Mersen	4TCJ9
350	LPS-RK-SPI	Bussmann	1PVZ8
350	A6D-R	Mersen	4TCK1
400	LPS-RK-SPI	Bussmann	1PWA1
400	A6D-R	Mersen	4TCK2
450	LPS-RK-SPI	Bussmann	1PWA3
450	A6D-R	Mersen	4TCK3
500	LPS-RK-SPI	Bussmann	1PWA6
500	A6D-R	Mersen	4TCK4
600	LPS-RK-SPI	Bussmann	1PWA8
600	A6D-R	Mersen	4TCK5
250V AC Fast-Acting UL Class RK1 Fuses, Nonindicating			
Equivalent Series A2K-R, KLRN, KTN-R			
Cylindrical Body Style			
30	KTN-R	Bussmann	1DG40
50	KTN-R	Bussmann	1DG46
Blade Body Style			
250	KTN-R	Bussmann	1EM16
400	KTN-R	Bussmann	1DW47
600V AC Fast-Acting UL Class RK1 Fuses, Nonindicating			
Equivalent Series A6K-R, KLSR, KTS-R			
Cylindrical Body Style			
25	KTS-R	Bussmann	1CX05
45	KTS-R	Bussmann	1CX11
50	KTS-R	Bussmann	1CX13
60	KTS-R	Bussmann	1CX15
Blade Body Style			
70	KTS-R	Bussmann	1CX16
80	KTS-R	Bussmann	1EL32
100	KTS-R	Bussmann	1EL23
125	KTS-R	Bussmann	1EL25
200	KTS-R	Bussmann	1EL28
300	KTS-R	Bussmann	1EL31
600	KTS-R	Bussmann	1EP19

1A698

Class RK5 Fuses

These fuses provide moderate current limitation for general use applications where more current-limiting RK1 fuses aren't needed. They have an interrupting rating (IR) of 200kA and have a rejection feature that prevents an accidental downgrade from a current-limiting system.

Fuse Size Chart

Amps	Length (in.)	Dia. (in.)	Amps	Length (in.)	Dia. (in.)
250VAC			**600VAC**		
1/10-30	2	9/16	1/10-30	5	13/16
35-60	3	13/16	35-60	5 1/2	1 1/16
70-100	5 7/8	1 1/16	70-100	7 7/8	1 1/8
110-200	7 1/8	1 9/16	110-200	9 5/8	1 19/32
225-400	8 5/8	2 3/8	225-400	11 5/8	2 3/8
450-600	10 3/8	2 7/8	450-600	13 3/8	2 7/8

Amps	Series	Brand	Item No.
250VAC Time-Delay UL Class RK5 Fuses, Indicating			
Equivalent Series FLNR-ID, LRN-R-ID, TR-RID			
Blade Body Style			
70	TR-RID	Mersen	**4YZT8**
80	TR-RID	Mersen	**4YZT9**
90	TR-RID	Mersen	**4YZU1**
100	TR-RID	Mersen	**4YZU2**
110	TR-RID	Mersen	**4YZU3**
125	TR-RID	Mersen	**4YZU4**
150	TR-RID	Mersen	**4YZU5**
175	TR-RID	Mersen	**4YZU6**
200	TR-RID	Mersen	**4YZU7**
225	TR-RID	Mersen	**4YZU8**
250	TR-RID	Mersen	**4YZU9**
300	TR-RID	Mersen	**4YZV1**
350	TR-RID	Mersen	**4YZV2**
400	TR-RID	Mersen	**4YZV3**
450	TR-RID	Mersen	**4YZV4**
500	TR-RID	Mersen	**4YZV5**
600	TR-RID	Mersen	**4YZV6**
Cylindrical Body Style			
8	FRN-R-ID	Bussmann	**3FKH9**
8	TR-RID	Mersen	**4YZR4**
9	FRN-R-ID	Bussmann	**3FKJ1**
9	TR-RID	Mersen	**4YZR5**
10	FRN-R-ID	Bussmann	**3FKG6**
10	TR-RID	Mersen	**4YZR6**
12	FRN-R-ID	Bussmann	**3FKG7**
12	TR-RID	Mersen	**4YZR7**
15	FRN-R-ID	Bussmann	**3FKG8**
15	TR-RID	Mersen	**4YZR8**
17 1/2	FRN-R-ID	Bussmann	**3FKG9**
20	FRN-R-ID	Bussmann	**3FKH1**
20	TR-RID	Mersen	**4YZR9**
25	FRN-R-ID	Bussmann	**3FKH2**
25	TR-RID	Mersen	**4YZT1**
30	FRN-R-ID	Bussmann	**3FKH3**
30	TR-RID	Mersen	**4YZT2**
35	FRN-R-ID	Bussmann	**3FKH4**
35	TR-RID	Mersen	**4YZT3**
40	FRN-R-ID	Bussmann	**3FKH5**
40	TR-RID	Mersen	**4YZT4**
45	FRN-R-ID	Bussmann	**3FKH6**
45	TR-RID	Mersen	**4YZT5**
50	FRN-R-ID	Bussmann	**3FKH7**
50	TR-RID	Mersen	**4YZT6**
60	FRN-R-ID	Bussmann	**3FKH8**
60	TR-RID	Mersen	**4YZT7**
250VAC Time-Delay UL Class RK5 Fuses, Non-Indicating			
Equivalent Series ECNR, FLNR, FRN-R, TR-R			
Blade Body Style			
70	TR-R	Mersen	**4YZE7**
70	FRN-R	Bussmann	**6A828**
75	TR-R	Mersen	**4YZE8**
75	FRN-R	Bussmann	**6F214**
80	TR-R	Mersen	**4YZE9**
80	FRN-R	Bussmann	**6A829**
90	TR-R	Mersen	**4YZF1**
90	FRN-R	Bussmann	**6A830**
100	FRN-R	Bussmann	**2A157**
100	TR-R	Mersen	**4YZF2**
110	TR-R	Mersen	**4YZF3**
110	FRN-R	Bussmann	**6F215**
125	FRN-R	Bussmann	**4A454**
125	TR-R	Mersen	**4YZF4**
150	FRN-R	Bussmann	**4A455**
150	TR-R	Mersen	**4YZF5**
175	TR-R	Mersen	**4YZF6**
175	FRN-R	Bussmann	**6F216**
200	FRN-R	Bussmann	**4A456**
200	TR-R	Mersen	**4YZF7**
225	TR-R	Mersen	**4YZF8**
225	FRN-R	Bussmann	**6F217**
250	TR-R	Mersen	**4YZF9**
250	FRN-R	Bussmann	**6F218**
300	TR-R	Mersen	**4YZG1**
300	FRN-R	Bussmann	**6A831**
350	TR-R	Mersen	**4YZG2**
350	FRN-R	Bussmann	**6F219**
400	TR-R	Mersen	**4YZG3**
400	FRN-R	Bussmann	**6A832**
450	TR-R	Mersen	**4YZG4**
450	FRN-R	Bussmann	**6F220**
500	TR-R	Mersen	**4YZG5**
500	FRN-R	Bussmann	**6F221**
600	TR-R	Mersen	**4YZG6**
600	FRN-R	Bussmann	**6F222**
Cylindrical Body Style			
1/10	TR-R	Mersen	**4TCK6**
1/10	FRN-R	Bussmann	**6F201**
1/8	FRN-R	Bussmann	**1DF53**
15/100	TR-R	Mersen	**4TCK7**
15/100	FRN-R	Bussmann	**6F202**
2/10	TR-R	Mersen	**4TCK8**
2/10	FRN-R	Bussmann	**6F203**
1/4	FRN-R	Bussmann	**1DF52**
3/10	TR-R	Mersen	**4TCK9**
3/10	FRN-R	Bussmann	**6C172**
4/10	TR-R	Mersen	**4TCL1**
4/10	FRN-R	Bussmann	**6F204**
1/2	TR-R	Mersen	**4TCL2**
1/2	FRN-R	Bussmann	**6F205**
6/10	TR-R	Mersen	**4TCL3**
6/10	FRN-R	Bussmann	**6C173**
8/10	TR-R	Mersen	**4TCL4**
8/10	FRN-R	Bussmann	**6F206**
1 1/2	FRN-R	Bussmann	**1DF51**
1 6/10	FRN-R	Bussmann	**4A447**
1 8/10	FRN-R	Bussmann	**4A448**
1 1/4	FRN-R	Bussmann	**4A449**
1	TR-R	Mersen	**4TCL5**
1 1/8	TR-R	Mersen	**4TCL6**
1 1/4	TR-R	Mersen	**4TCL7**
1 4/10	TR-R	Mersen	**4TCL8**
1 6/10	TR-R	Mersen	**4TCL9**
1 8/10	TR-R	Mersen	**4TCN1**
1	FRN-R	Bussmann	**4TWL3**
1 1/8	FRN-R	Bussmann	**6F207**
1 4/10	FRN-R	Bussmann	**6F208**
2	FRN-R	Bussmann	**2A155**
2	TR-R	Mersen	**4TCN2**
2 1/4	TR-R	Mersen	**4TCN3**
2 1/2	TR-R	Mersen	**4TCN4**
2 8/10	TR-R	Mersen	**4TCN5**
2 1/4	FRN-R	Bussmann	**6F209**
2 1/2	FRN-R	Bussmann	**6F210**
2 8/10	FRN-R	Bussmann	**6F211**
3 2/10	FRN-R	Bussmann	**1A688**
3 1/2	FRN-R	Bussmann	**4A450**
3	TR-R	Mersen	**4TCN6**
3 2/10	TR-R	Mersen	**4TCN7**
3 1/2	TR-R	Mersen	**4TCN8**
3	FRN-R	Bussmann	**6C174**
4	FRN-R	Bussmann	**4A451**
4	TR-R	Mersen	**4TCN9**
4 1/2	TR-R	Mersen	**4TCP1**
4 1/2	FRN-R	Bussmann	**6F212**
5	FRN-R	Bussmann	**1A689**
5 6/10	FRN-R	Bussmann	**2A156**
5	TR-R	Mersen	**4TCP2**
5 6/10	TR-R	Mersen	**4TCP3**
6 1/4	FRN-R	Bussmann	**1A690**
6	TR-R	Mersen	**4TCP4**
6 1/4	TR-R	Mersen	**4TCP5**
6	FRN-R	Bussmann	**6C175**
7	FRN-R	Bussmann	**1A691**
7 1/2	FRN-R	Bussmann	**1DF54**
7	TR-R	Mersen	**4TCP6**
8	FRN-R	Bussmann	**1A692**
8	TR-R	Mersen	**4TCP7**
9	TR-R	Mersen	**4TCP8**
9	FRN-R	Bussmann	**6C205**
10	FRN-R	Bussmann	**1A693**
10	TR-R	Mersen	**4TCP9**
12	FRN-R	Bussmann	**1A694**
12	TR-R	Mersen	**4TCR1**
15	ECNR	Bussmann	**13M229**
15	FRN-R	Bussmann	**1A695**
15	TR-R	Mersen	**4TCR2**
17 1/2	TR-R	Mersen	**4TCR3**
17 1/2	FRN-R	Bussmann	**6F213**
20	ECNR	Bussmann	**13M230**
20	FRN-R	Bussmann	**1A696**
20	TR-R	Mersen	**4YZD8**
25	FRN-R	Bussmann	**1A697**
25	TR-R	Mersen	**4YZD9**
30	ECNR	Bussmann	**12W254**
30	FRN-R	Bussmann	**1A698**
30	TR-R	Mersen	**4YZE1**
35	FRN-R	Bussmann	**4A452**
35	TR-R	Mersen	**4YZE2**
40	FRN-R	Bussmann	**1A699**
40	TR-R	Mersen	**4YZE3**
45	TR-R	Mersen	**4YZE4**
45	FRN-R	Bussmann	**6C206**
50	FRN-R	Bussmann	**4A453**
50	TR-R	Mersen	**4YZE5**
60	ECNR	Bussmann	**12W260**
60	FRN-R	Bussmann	**1A700**
60	TR-R	Mersen	**4YZE6**
70	ECNR	Bussmann	**12W261**
100	ECNR	Bussmann	**13M228**
600VAC Time-Delay Class RK5 Fuses, Non-Indicating			
Equivalent Series ECSR, FLSR, FRS-R, TRS-R			
Blade Body Style			
65	FRS-R	Bussmann	**1DP87**
70	TRS-R	Mersen	**4YZN4**
70	FRS-R	Bussmann	**6A835**
75	TRS-R	Mersen	**4YZN5**
75	FRS-R	Bussmann	**6F237**
80	TRS-R	Mersen	**4YZN6**
80	FRS-R	Bussmann	**6A836**
90	TRS-R	Mersen	**4YZN7**
90	FRS-R	Bussmann	**6A837**
100	FRS-R	Bussmann	**2A163**
100	TRS-R	Mersen	**4YZN8**
110	TRS-R	Mersen	**4YZN9**
110	FRS-R	Bussmann	**6F238**
125	FRS-R	Bussmann	**4A465**
125	TRS-R	Mersen	**4YZP1**
150	FRS-R	Bussmann	**4A466**
150	TRS-R	Mersen	**4YZP2**
175	TRS-R	Mersen	**4YZP3**
175	FRS-R	Bussmann	**6F239**
200	FRS-R	Bussmann	**4A467**
200	TRS-R	Mersen	**4YZP4**
225	TRS-R	Mersen	**4YZP5**
225	FRS-R	Bussmann	**6F240**
250	TRS-R	Mersen	**4YZP6**
250	FRS-R	Bussmann	**6F241**
300	TRS-R	Mersen	**4YZP7**
300	FRS-R	Bussmann	**6A838**
350	TRS-R	Mersen	**4YZP8**
350	FRS-R	Bussmann	**6C204**
400	TRS-R	Mersen	**4YZP9**
400	FRS-R	Bussmann	**6A839**
450	TRS-R	Mersen	**4YZR1**
450	FRS-R	Bussmann	**6F242**
500	TRS-R	Mersen	**4YZR2**
500	FRS-R	Bussmann	**6F243**
600	TRS-R	Mersen	**4YZR3**
600	FRS-R	Bussmann	**6F244**
Cylindrical Body Style			
1/10	TRS-R	Mersen	**4YZG7**
1/10	FRS-R	Bussmann	**6F223**
15/100	TRS-R	Mersen	**4YZG8**
15/100	FRS-R	Bussmann	**6F224**
2/10	TRS-R	Mersen	**4YZG9**
2/10	FRS-R	Bussmann	**6F225**
1/4	FRS-R	Bussmann	**1EM07**
3/10	TRS-R	Mersen	**4YZH1**
3/10	FRS-R	Bussmann	**6F226**
4/10	TRS-R	Mersen	**4YZH2**
4/10	FRS-R	Bussmann	**6F227**
1/2	TRS-R	Mersen	**4YZH3**
1/2	FRS-R	Bussmann	**6F228**
6/10	TRS-R	Mersen	**4YZH4**
6/10	FRS-R	Bussmann	**6F229**
8/10	TRS-R	Mersen	**4YZH5**
8/10	FRS-R	Bussmann	**6F230**
1 1/4	FRS-R	Bussmann	**1A701**
1 1/2	FRS-R	Bussmann	**1EM06**
1	FRS-R	Bussmann	**4A457**
1 4/10	FRS-R	Bussmann	**4A458**
1 8/10	FRS-R	Bussmann	**4A459**
1	TRS-R	Mersen	**4YZH6**
1 1/8	TRS-R	Mersen	**4YZH7**
1 1/4	TRS-R	Mersen	**4YZH8**
1 4/10	TRS-R	Mersen	**4YZH9**
1 6/10	TRS-R	Mersen	**4YZJ1**
1 8/10	TRS-R	Mersen	**4YZJ2**
1 6/10	FRS-R	Bussmann	**6C212**
1 1/8	FRS-R	Bussmann	**6F231**
2	FRS-R	Bussmann	**2A158**
2 1/2	FRS-R	Bussmann	**2A159**
2 8/10	FRS-R	Bussmann	**4A460**
2	TRS-R	Mersen	**4YZJ3**
2 1/4	TRS-R	Mersen	**4YZJ4**
2 1/2	TRS-R	Mersen	**4YZJ5**
2 8/10	TRS-R	Mersen	**4YZJ6**
2 1/4	FRS-R	Bussmann	**6F232**
3 1/2	FRS-R	Bussmann	**4A461**
3	TRS-R	Mersen	**4YZJ7**
3 2/10	TRS-R	Mersen	**4YZJ8**
3 1/2	TRS-R	Mersen	**4YZJ9**
3	FRS-R	Bussmann	**6C213**
3 2/10	FRS-R	Bussmann	**6F233**
4	FRS-R	Bussmann	**4A462**
4	TRS-R	Mersen	**4YZK1**
4 1/2	TRS-R	Mersen	**4YZK2**
4 1/2	FRS-R	Bussmann	**6F234**
5	FRS-R	Bussmann	**1A702**
5 6/10	FRS-R	Bussmann	**3W686**
5	TRS-R	Mersen	**4YZK3**
5 6/10	TRS-R	Mersen	**4YZK4**
6 1/4	FRS-R	Bussmann	**4A463**
6	TRS-R	Mersen	**4YZK5**
6 1/4	TRS-R	Mersen	**4YZK6**
6	FRS-R	Bussmann	**6C214**
7 1/2	FRS-R	Bussmann	**1EM08**
7	FRS-R	Bussmann	**2A160**
7	TRS-R	Mersen	**4YZK7**
8	TRS-R	Mersen	**4YZK8**
8	FRS-R	Bussmann	**6C215**
9	TRS-R	Mersen	**4YZK9**
9	FRS-R	Bussmann	**6F235**
10	FRS-R	Bussmann	**2A161**
10	TRS-R	Mersen	**4YZL1**
12	FRS-R	Bussmann	**2A162**
12	TRS-R	Mersen	**4YZL2**
15	FRS-R	Bussmann	**1A703**
15	TRS-R	Mersen	**4YZL3**
17 1/2	TRS-R	Mersen	**4YZL4**
17 1/2	FRS-R	Bussmann	**6F236**
20	FRS-R	Bussmann	**1A704**
20	TRS-R	Mersen	**4YZL5**
25	FRS-R	Bussmann	**1A705**
25	TRS-R	Mersen	**4YZL6**
30	ECSR	Bussmann	**12W262**
30	FRS-R	Bussmann	**1A706**
30	TRS-R	Mersen	**4YZL7**
35	TRS-R	Mersen	**4YZL8**
35	FRS-R	Bussmann	**6A833**
40	FRS-R	Bussmann	**4A464**
40	TRS-R	Mersen	**4YZL9**
45	FRS-R	Bussmann	**3W685**
45	TRS-R	Mersen	**4YZN1**
50	TRS-R	Mersen	**4YZN2**
50	FRS-R	Bussmann	**6A834**
60	FRS-R	Bussmann	**1A707**
60	TRS-R	Mersen	**4YZN3**
600VAC Time-Delay UL Class RK5 Fuses, Indicating			
Equivalent Series FLSR-ID, FRS-R-ID, TRS-RID			
Blade Body Style			
70	TRS-RID	Mersen	**4YZX3**
80	TRS-RID	Mersen	**4YZX4**
90	TRS-RID	Mersen	**4YZX5**
100	TRS-RID	Mersen	**4YZX6**
110	TRS-RID	Mersen	**4YZX7**
125	TRS-RID	Mersen	**4YZX8**
150	TRS-RID	Mersen	**4YZX9**
175	TRS-RID	Mersen	**4YZY1**
200	TRS-RID	Mersen	**4YZY2**
225	TRS-RID	Mersen	**4YZY3**
250	TRS-RID	Mersen	**4YZY4**
300	TRS-RID	Mersen	**4YZY5**
350	TRS-RID	Mersen	**4YZY6**
400	TRS-RID	Mersen	**4YZY7**
450	TRS-RID	Mersen	**4YZY8**
500	TRS-RID	Mersen	**4YZY9**
600	TRS-RID	Mersen	**4YZZ1**
Cylindrical Body Style			
6	FRS-R-ID	Bussmann	**3FKK5**
6 1/2	FRS-R-ID	Bussmann	**3FKK7**
7	FRS-R-ID	Bussmann	**3FKK8**
7 1/2	FRS-R-ID	Bussmann	**3FKK9**
8	FRS-R-ID	Bussmann	**3FKL1**
8	TRS-RID	Mersen	**4YZV7**
9	FRS-R-ID	Bussmann	**3FKL2**
9	TRS-RID	Mersen	**4YZV8**
10	FRS-R-ID	Bussmann	**3FKJ2**
10	TRS-RID	Mersen	**4YZV9**
12	FRS-R-ID	Bussmann	**3FKJ3**
12	TRS-RID	Mersen	**4YZW1**
15	FRS-R-ID	Bussmann	**3FKJ4**
15	TRS-RID	Mersen	**4YZW2**
17 1/2	FRS-R-ID	Bussmann	**3FKJ5**
17 1/2	TRS-RID	Mersen	**4YZW3**
20	FRS-R-ID	Bussmann	**3FKJ6**
20	TRS-RID	Mersen	**4YZW4**
25	FRS-R-ID	Bussmann	**3FKJ7**
25	TRS-RID	Mersen	**4YZW5**
30	FRS-R-ID	Bussmann	**3FKJ8**
30	TRS-RID	Mersen	**4YZW6**
35	FRS-R-ID	Bussmann	**3FKJ9**
35	TRS-RID	Mersen	**4YZW7**
40	FRS-R-ID	Bussmann	**3FKK2**
40	TRS-RID	Mersen	**4YZW8**
45	FRS-R-ID	Bussmann	**3FKK3**
45	TRS-RID	Mersen	**4YZW9**
50	FRS-R-ID	Bussmann	**3FKK4**
50	TRS-RID	Mersen	**4YZX1**
60	FRS-R-ID	Bussmann	**3FKK6**
60	TRS-RID	Mersen	**4YZX2**

Midget Fuses

EATON BUSSMANN SERIES · FERRAZ SHAWMUT IS NOW MERSEN · MERSEN

- Fuse Size 1 1/2"L x 13/32" dia.
- These fuses supplement the primary branch-circuit fuse or breaker to provide backup overcurrent protection for lighting, solenoid, motor, and transformer circuits. They are noncurrent-limiting, so they won't limit exposure to the full magnitude and duration of an overcurrent.

1CR95

Amps	AC Volt Rating	Series	Brand	Item No.
Fast Acting Midget Fuses, Nonindicating				
Equivalent Series ATM, KLK, KTK				
1/10	600V AC	KTK	Bussmann	6F125
	600V AC	ATM	Mersen	4ZCG5
1/8	600V AC	KTK	Bussmann	6F126
	600V AC	ATM	Mersen	4ZCG6
2/10	600V AC	KTK	Bussmann	6F127
	600V AC	ATM	Mersen	4ZCG7
1/4	600V AC	KTK	Bussmann	6F128
	600V AC	ATM	Mersen	4ZCG8
3/10	600V AC	KTK	Bussmann	1CW81
4/10	600V AC	KTK	Bussmann	1CW83
1/2	600V AC	KTK	Bussmann	6F129
	600V AC	ATM	Mersen	4ZCG9
6/10	600V AC	KTK	Bussmann	1CW87
3/4	600V AC	KTK	Bussmann	6F130
	600V AC	ATM	Mersen	4ZCH1
1	600V AC	KTK	Bussmann	4XC37
1 1/2	600V AC	KTK	Bussmann	6F131
1 1/4	600V AC	KTK	Bussmann	1CW78
1	600V AC	ATM	Mersen	4ZCH2
1 1/2	600V AC	ATM	Mersen	4ZCH3
2 1/2	600V AC	KTK	Bussmann	1CW79
2	600V AC	KTK	Bussmann	4XC38
	600V AC	ATM	Mersen	4ZCH4
3 1/2	600V AC	KTK	Bussmann	1CW80
3	600V AC	KTK	Bussmann	4XC39
	600V AC	ATM	Mersen	4ZCH5
4	600V AC	KTK	Bussmann	6F132
	600V AC	ATM	Mersen	4ZCH6
5	600V AC	KTK	Bussmann	4XC40
	600V AC	ATM	Mersen	4ZCH7
6	600V AC	KTK	Bussmann	4XC41
	600V AC	ATM	Mersen	4ZCH8
7	600V AC	KTK	Bussmann	1CW88
7 1/2	600V AC	KTK	Bussmann	1CW89
7	600V AC	ATM	Mersen	4ZCH9
8	600V AC	KTK	Bussmann	6F133
	600V AC	ATM	Mersen	4ZCJ1
9	600V AC	KTK	Bussmann	1CW90
10	600V AC	KTK	Bussmann	4XC42
	600V AC	ATM	Mersen	4ZCJ2
12	600V AC	KTK	Bussmann	6F134
	600V AC	ATM	Mersen	4ZCJ3
15	600V AC	KTK	Bussmann	4XC43
	600V AC	ATM	Mersen	4ZCJ4
20	600V AC	KTK	Bussmann	4XC44
	600V AC	ATM	Mersen	4ZCJ5
25	600V AC	KTK	Bussmann	4XC45
	600V AC	ATM	Mersen	4ZCJ6
30	600V AC	KTK	Bussmann	4XC46
	600V AC	ATM	Mersen	4ZCJ7
35	600V AC	KTK	Bussmann	1CW82
	600V AC	ATM	Mersen	4ZCJ8
40	600V AC	KTK	Bussmann	1CW84
	600V AC	ATM	Mersen	4ZCJ9
50	600V AC	KTK	Bussmann	1CW86
	600V AC	ATM	Mersen	4ZCK1
Equivalent Series ATM, KLKD, KLM				
1/10	600V AC	KLM	Bussmann	49ZU73
1/4	600V AC	KLM	Bussmann	49ZU74
3/10	600V AC	KLM	Bussmann	4TWT7
1/2	600V AC	KLM	Bussmann	4TWT3
1	600V AC	KLM	Bussmann	4TWT2
1 1/2	600V AC	KLM	Bussmann	4TWT4
2	600V AC	KLM	Bussmann	1CW66
2 1/2	600V AC	KLM	Bussmann	49ZU77
3	600V AC	KLM	Bussmann	4TWT6
4	600V AC	KLM	Bussmann	4TWT8
5	600V AC	KLM	Bussmann	1CW75
6	600V AC	KLM	Bussmann	1CW76
7	600V AC	KLM	Bussmann	49ZU79
8	600V AC	KLM	Bussmann	4TWT9
10	600V AC	KLM	Bussmann	1CW64
12	600V AC	KLM	Bussmann	4TWT5
15	600V AC	KLM	Bussmann	1CW65
20	600V AC	KLM	Bussmann	1CW68
25	600V AC	KLM	Bussmann	1CW69
30	600V AC	KLM	Bussmann	1CW73
Equivalent Series BAF, BLF, OTM				
1/4	250V AC	BAF	Bussmann	4TWH2
1/2	250V AC	BAF	Bussmann	1CR71
6/10	250V AC	BAF	Bussmann	4TWH3
1 1/2	250V AC	BAF	Bussmann	1CR70
1	250V AC	BAF	Bussmann	6F159
2 1/2	250V AC	BAF	Bussmann	1CR73
2	250V AC	BAF	Bussmann	6F160
3	250V AC	BAF	Bussmann	6C167
4	250V AC	BAF	Bussmann	6F161
5	250V AC	BAF	Bussmann	6C168
6 1/4	250V AC	BAF	Bussmann	1CR77
6	250V AC	BAF	Bussmann	6C169
7	250V AC	BAF	Bussmann	1CR78
8	250V AC	BAF	Bussmann	6F162
9	250V AC	BAF	Bussmann	1CR79
10	250V AC	BAF	Bussmann	6C170
12	250V AC	BAF	Bussmann	1CR72
15	250V AC	BAF	Bussmann	6C171
20	250V AC	BAF	Bussmann	1CR74
25	250V AC	BAF	Bussmann	1CR75
30	250V AC	BAF	Bussmann	1CR76
Equivalent Series BBS, BLS, SBS				
1/10	600V AC	BBS	Bussmann	1CR98
2/10	600V AC	BBS	Bussmann	1CT05
1/4	600V AC	BBS	Bussmann	1CT01
4/10	600V AC	BBS	Bussmann	1CT12
1/2	600V AC	BBS	Bussmann	1CR99
6/10	600V AC	BBS	Bussmann	1CT15
3/4	600V AC	BBS	Bussmann	1CT09
8/10	600V AC	BBS	Bussmann	1CT18
1	600V AC	BBS	Bussmann	1CR94
1 1/2	600V AC	BBS	Bussmann	1CR95
1 6/10	600V AC	BBS	Bussmann	1CR96
2	600V AC	BBS	Bussmann	1CT04
3	600V AC	BBS	Bussmann	1CT08
4	600V AC	BBS	Bussmann	1CT11
5	600V AC	BBS	Bussmann	1CT13
6	600V AC	BBS	Bussmann	1CT14
7	250V AC	BBS	Bussmann	1CT16
8	250V AC	BBS	Bussmann	1CT17
10	250V AC	BBS	Bussmann	1CT02
15	48V AC	BBS	Bussmann	1CT03
20	48V AC	BBS	Bussmann	1CT06
30	48V AC	BBS	Bussmann	1CT10
Time-Delay Midget Fuses, Indicating				
Equivalent Series FLA, FNA, GFN				
1/10	250V AC	FNA	Bussmann	4TWH7
2/10	250V AC	FNA	Bussmann	1CT39
1/4	250V AC	FNA	Bussmann	1CT29
3/10	250V AC	FNA	Bussmann	4TWJ7
4/10	250V AC	FNA	Bussmann	1CT50
1/2	250V AC	FNA	Bussmann	1CT28
6/10	250V AC	FNA	Bussmann	1CT55
3/4	250V AC	FNA	Bussmann	4TWJ8
8/10	250V AC	FNA	Bussmann	4TWK3
1	250V AC	FNA	Bussmann	1CT20
1 1/2	250V AC	FNA	Bussmann	1CT21
1 1/4	250V AC	FNA	Bussmann	1CT22
1 6/10	250V AC	FNA	Bussmann	1CT25
1 1/8	250V AC	FNA	Bussmann	4TWH8
1 4/10	250V AC	FNA	Bussmann	4TWH9
1 8/10	250V AC	FNA	Bussmann	4TWJ1
2	250V AC	FNA	Bussmann	1CT35
2 1/2	250V AC	FNA	Bussmann	4TWJ3
2 1/4	250V AC	FNA	Bussmann	4TWJ4
2 8/10	250V AC	FNA	Bussmann	4TWJ6
3	250V AC	FNA	Bussmann	1CT42
3 2/10	250V AC	FNA	Bussmann	4TWJ9
4	250V AC	FNA	Bussmann	1CT48
4 1/2	250V AC	FNA	Bussmann	4TWK1
5	250V AC	FNA	Bussmann	1CT51
6	250V AC	FNA	Bussmann	1CT53
6 1/4	125V AC	FNA	Bussmann	4TWK2
7	125V AC	FNA	Bussmann	1CT56
8	125V AC	FNA	Bussmann	1CT57
9	125V AC	FNA	Bussmann	4TWK4
10	125V AC	FNA	Bussmann	1CT31
12	125V AC	FNA	Bussmann	1CT32
15	125V AC	FNA	Bussmann	1CT33
20	32V AC	FNA	Bussmann	4TWJ2
25	32V AC	FNA	Bussmann	4TWJ5
Time-Delay Midget Fuses, Nonindicating				
Equivalent Series ATQ, FLQ, FNQ, HC10S				
1/10	500V AC	FNQ	Bussmann	6F135
	500V AC	ATQ	Mersen	4ZWY9
1/8	500V AC	FNQ	Bussmann	6F136
	500V AC	ATQ	Mersen	4ZWZ1
15/100	500V AC	FNQ	Bussmann	6F137
	500V AC	ATQ	Mersen	4ZWZ2
3/16	500V AC	FNQ	Bussmann	6F138
	500V AC	ATQ	Mersen	4ZWZ3
2/10	500V AC	FNQ	Bussmann	6F139
	500V AC	ATQ	Mersen	4ZWZ4
1/4	500V AC	FNQ	Bussmann	6F140
	500V AC	ATQ	Mersen	4ZWZ5
3/10	500V AC	FNQ	Bussmann	6F141
	500V AC	ATQ	Mersen	4ZWZ6
4/10	500V AC	FNQ	Bussmann	6F142
	500V AC	ATQ	Mersen	4ZWZ7
1/2	500V AC	FNQ	Bussmann	4XC47
	500V AC	ATQ	Mersen	4ZWZ8
6/10	500V AC	FNQ	Bussmann	6F143
	500V AC	ATQ	Mersen	4ZWZ9
8/10	500V AC	FNQ	Bussmann	6F144
	500V AC	ATQ	Mersen	4ZXA1
1	500V AC	FNQ	Bussmann	4XC48
1 4/10	500V AC	FNQ	Bussmann	4XC49
1 1/8	500V AC	FNQ	Bussmann	6F145
1 1/4	500V AC	FNQ	Bussmann	6F146
1 1/2	500V AC	FNQ	Bussmann	6F148
1	500V AC	ATQ	Mersen	4ZCK2
1 1/8	500V AC	ATQ	Mersen	4ZCK3
1 1/4	500V AC	ATQ	Mersen	4ZCK4
1 4/10	500V AC	ATQ	Mersen	4ZCK5
1 1/2	500V AC	ATQ	Mersen	4ZCK6
1 6/10	500V AC	ATQ	Mersen	4ZCK7
1 8/10	500V AC	ATQ	Mersen	4ZCK8
2	500V AC	FNQ	Bussmann	4XC50
2 1/2	500V AC	FNQ	Bussmann	4XC51
2 1/4	500V AC	FNQ	Bussmann	6F151
2	500V AC	ATQ	Mersen	4ZCK9
2 1/8	500V AC	ATQ	Mersen	4ZCL1
2 1/4	500V AC	ATQ	Mersen	4ZCL2
2 1/2	500V AC	ATQ	Mersen	4ZCL3
2 8/10	500V AC	ATQ	Mersen	4ZCL4
3	500V AC	FNQ	Bussmann	4XC52
3 2/10	500V AC	FNQ	Bussmann	4XC53
3 1/2	500V AC	FNQ	Bussmann	6F153
3	500V AC	ATQ	Mersen	4ZCL5
3 2/10	500V AC	ATQ	Mersen	4ZCL6
3 1/2	500V AC	ATQ	Mersen	4ZCL7
4 1/2	500V AC	FNQ	Bussmann	1CT87
4	500V AC	FNQ	Bussmann	4XC54
	500V AC	ATQ	Mersen	4ZCL8
4 1/2	500V AC	ATQ	Mersen	4ZCL9
5	500V AC	FNQ	Bussmann	4XC55
5 6/10	500V AC	FNQ	Bussmann	6F155
5	500V AC	ATQ	Mersen	4ZCN1
5 6/10	500V AC	ATQ	Mersen	4ZCN2
6	500V AC	FNQ	Bussmann	4XC56
6 1/4	500V AC	FNQ	Bussmann	6F156
6	500V AC	ATQ	Mersen	4ZCN3
6 1/4	500V AC	ATQ	Mersen	4ZCN4
7	500V AC	FNQ	Bussmann	4XC57
	500V AC	ATQ	Mersen	4ZCN5
8	500V AC	FNQ	Bussmann	4XC58
	500V AC	ATQ	Mersen	4ZCN6
9	500V AC	FNQ	Bussmann	6F157
	500V AC	ATQ	Mersen	4ZCN7
10	500V AC	FNQ	Bussmann	4XC59
	500V AC	ATQ	Mersen	4ZCN8
12	500V AC	FNQ	Bussmann	4XC60
	500V AC	ATQ	Mersen	4ZCN9
14	500V AC	FNQ	Bussmann	6F158
	500V AC	ATQ	Mersen	4ZCP1
15	500V AC	FNQ	Bussmann	4XC61
	500V AC	ATQ	Mersen	4ZCP2
20	500V AC	FNQ	Bussmann	4XC62
	500V AC	ATQ	Mersen	4ZCP3
25	500V AC	FNQ	Bussmann	4XC63
	500V AC	ATQ	Mersen	4ZCP4
30	500V AC	FNQ	Bussmann	4XC64
	500V AC	ATQ	Mersen	4ZCP5
Equivalent Series FLM, FNM, TRM				
1/10	250V AC	FNM	Bussmann	6F166
15/100	250V AC	FNM	Bussmann	6F167
2/10	250V AC	FNM	Bussmann	6F168
1/4	250V AC	FNM	Bussmann	1CT79
3/10	250V AC	FNM	Bussmann	6F169
4/10	250V AC	FNM	Bussmann	6F170
1/2	250V AC	FNM	Bussmann	6F171
6/10	250V AC	FNM	Bussmann	4XC09
3/4	250V AC	FNM	Bussmann	4TWK5
8/10	250V AC	FNM	Bussmann	6F172
1 1/2	250V AC	FNM	Bussmann	1CT78
1	250V AC	FNM	Bussmann	6C207
1 1/8	250V AC	FNM	Bussmann	6F173
1 1/4	250V AC	FNM	Bussmann	6F174
1 4/10	250V AC	FNM	Bussmann	6F175
1 6/10	250V AC	FNM	Bussmann	6F176
1 8/10	250V AC	FNM	Bussmann	6F177
2	250V AC	FNM	Bussmann	4XC10
2 1/4	250V AC	FNM	Bussmann	6F178
2 1/2	250V AC	FNM	Bussmann	6F179
2 8/10	250V AC	FNM	Bussmann	6F180
3	250V AC	FNM	Bussmann	4XC11
3 2/10	250V AC	FNM	Bussmann	6F181
3 1/2	250V AC	FNM	Bussmann	6F182
4	250V AC	FNM	Bussmann	6F183
4 1/2	250V AC	FNM	Bussmann	6F184
5	250V AC	FNM	Bussmann	4XC12
5 6/10	250V AC	FNM	Bussmann	6F185
6 1/4	250V AC	FNM	Bussmann	6C208
6	250V AC	FNM	Bussmann	6F186
7	250V AC	FNM	Bussmann	6C209
8	250V AC	FNM	Bussmann	6C210
9	250V AC	FNM	Bussmann	6F187
10	250V AC	FNM	Bussmann	4XC13
12	250V AC	FNM	Bussmann	1CT80
15	250V AC	FNM	Bussmann	1CT81
20	250V AC	FNM	Bussmann	1CT82
25	250V AC	FNM	Bussmann	1CT83
30	250V AC	FNM	Bussmann	1CT84
35	32V AC	FNM	Bussmann	1CT85
40	250V AC	FNM	Bussmann	1CT86

6F338

EATON BUSSMANN SERIES

Class T Fuses

These are very small fuses that protect electrical feeders and branch circuits from overcurrent. They have an interrupting rating (IR) of 200kA and are not interchangeable with any other UL fuse class.

Amps	AC Volt Rating	Series	Item No.
Fact-Acting UL Class T Fuses, Nonindicating			
Equivalent Series A3T, JJN, JLLN, TJN			
Bolt-On Body Style			
1,000	300V AC	JJN	4TWP6
1,200	300V AC	JJN	4TWP7
Cylindrical Body Style			
1	300V AC	JJN	49ZU63
3	300V AC	JJN	6F337
6	300V AC	JJN	4XH17
10	300V AC	JJN	6F338
15	300V AC	JJN	6F339
20	300V AC	JJN	6F340
25	300V AC	JJN	6F341
30	300V AC	JJN	4XH18
35	300V AC	JJN	6F342
40	300V AC	JJN	4XH19
45	300V AC	JJN	6F343
50	300V AC	JJN	4XH20
60	300V AC	JJN	4XH21
Bolt-On Body Style			
70	300V AC	JJN	4XH22
80	300V AC	JJN	4XH23
90	300V AC	JJN	4XH24
100	300V AC	JJN	4XH25
110	300V AC	JJN	4XH26
125	300V AC	JJN	4XH27
150	300V AC	JJN	4XH28
175	300V AC	JJN	4TWP8
200	300V AC	JJN	4XH29
225	300V AC	JJN	4TWP9
250	300V AC	JJN	6F346
300	300V AC	JJN	4XH30
350	300V AC	JJN	4XH31
400	300V AC	JJN	4XH32
450	300V AC	JJN	4TWR1
500	300V AC	JJN	4XH33
600	300V AC	JJN	4XH34
700	300V AC	JJN	4TWR2
800	300V AC	JJN	4TWR3
Equivalent Series A6T, JJS, JLLS			
Cylindrical Body Style			
1	600V AC	JJS	6F473
2	600V AC	JJS	1DF89
3	600V AC	JJS	6F474
6	600V AC	JJS	6F475
10	600V AC	JJS	6F476
15	600V AC	JJS	6F477
20	600V AC	JJS	6F478
25	600V AC	JJS	6F479
30	600V AC	JJS	6F480
35	600V AC	JJS	6F481
40	600V AC	JJS	6F482
45	600V AC	JJS	6F483
50	600V AC	JJS	6F484
60	600V AC	JJS	6F485
Bolt-On Body Style			
70	600V AC	JJS	6F486
80	600V AC	JJS	6F487
90	600V AC	JJS	6F488
100	600V AC	JJS	6F489
110	600V AC	JJS	6F490
125	600V AC	JJS	6F491
150	600V AC	JJS	6F492
175	600V AC	JJS	6F493
200	600V AC	JJS	6F494
225	600V AC	JJS	6F495
250	600V AC	JJS	6F528
300	600V AC	JJS	6F496
350	600V AC	JJS	6F497
400	600V AC	JJS	4TWR4
450	600V AC	JJS	4TWR5
500	600V AC	JJS	4TWR6
600	600V AC	JJS	4TWR7
800	600V AC	JJS	4TWR8

4ZAU3

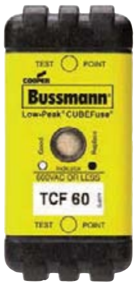
FERRAZ SHAWMUT IS NOW MERSEN

UL Class CC Fuses

- Fuse Size 1½"L x13/32" dia.

These fuses provide a high interrupting rating and current limitation for overcurrent protection. Their rejection feature ensures a match with Class CC rejection fuse blocks and holders. These 600VAC fuses have an interrupting rating (IR) of 200kA.

Amps	Mersen Series	Mersen Item No.	Littelfuse Series	Littelfuse Item No.	Bussmann Series	Bussmann Item No.
Fast Acting UL Class CC Fuses						
Equivalent Series ATMR, KLKR, KTK-R						
1/10	ATMR	**4ZAX9**	KLKR	**486M60**	KTK-R	**6F189**
1/8	ATMR	**4ZAY1**	—	—	KTK-R	**6F190**
2/10	ATMR	**4ZAY2**	—	—	KTK-R	**6F191**
1/4	ATMR	**4ZAY3**	KLKR	**486M61**	KTK-R	**6F192**
3/10	ATMR	**4ZAY4**	KLKR	**486M62**	KTK-R	**6F193**
4/10	—	—	—	—	KTK-R	**1CW91**
1/2	ATMR	**4ZAY5**	KLKR	**486M63**	KTK-R	**4XC17**
6/10	—	—	—	—	KTK-R	**4TWU3**
3/4	ATMR	**4ZAY6**	KLKR	**486M64**	KTK-R	**4XC18**
1	ATMR	**4ZAY7**	KLKR	**486M65**	KTK-R	**4XC19**
1 1/4	ATMR	**4ZAY8**	—	—	—	—
1 1/2	ATMR	**4ZAY9**	KLKR	**486M74**	KTK-R	**4XC20**
2	ATMR	**4ZAZ1**	KLKR	**486M66**	KTK-R	**4XC21**
2 1/2	ATMR	**4ZAZ2**	KLKR	**486M78**	KTK-R	**6F194**
3	ATMR	**4ZAZ3**	KLKR	**486M67**	KTK-R	**4XC22**
3 1/2	ATMR	**4ZAZ4**	KLKR	**486M81**	KTK-R	**6F195**
4	ATMR	**4ZAZ5**	KLKR	**486M68**	KTK-R	**4XC23**
5	ATMR	**4ZAZ6**	KLKR	**486M69**	KTK-R	**4XC24**
6	ATMR	**4ZAZ7**	KLKR	**486M70**	KTK-R	**6F196**
7	ATMR	**4ZAZ8**	KLKR	**486M71**	KTK-R	**1CW92**
8	ATMR	**4ZAZ9**	KLKR	**486M72**	KTK-R	**6F197**
9	ATMR	**4ZCA1**	KLKR	**486M73**	KTK-R	**6F198**
10	ATMR	**4ZCA2**	KLKR	**486M75**	KTK-R	**4XC25**
12	ATMR	**4ZCA3**	KLKR	**486M76**	KTK-R	**6F199**
15	ATMR	**4ZCA4**	KLKR	**486M77**	KTK-R	**4XC26**
20	ATMR	**4ZCA5**	KLKR	**486M79**	KTK-R	**4XC27**
25	ATMR	**4ZCA6**	KLKR	**486M80**	KTK-R	**6F200**
30	ATMR	**4ZCA7**	KLKR	**486M82**	KTK-R	**4XC28**
Time Delay UL Class CC Fuses						
Equivalent Series ATDR, CCMR, LP-CC						
1/4	ATDR	**4ZWY8**	—	—	—	—
1/2	ATDR	**4ZAU3**	CCMR	**486K39**	LP-CC	**1CX45**
6/10	ATDR	**4ZAW4**	CCMR	**486K40**	LP-CC	**1CX65**
8/10	ATDR	**4ZAU4**	CCMR	**486K41**	LP-CC	**1CX69**
1	ATDR	**4ZAU5**	CCMR	**486K42**	LP-CC	**1CX41**
1 1/8	ATDR	**4ZAU6**	—	—	LP-CC	**1CX43**
1 1/4	ATDR	**4ZAU7**	CCMR	**486K67**	LP-CC	**1CX42**
1 4/10	ATDR	**4ZAU8**	CCMR	**486K51**	LP-CC	**1CX44**
1 1/2	ATDR	**4ZAU9**	CCMR	**486K52**	LP-CC	**3HZ64**
1 6/10	ATDR	**4ZAV1**	CCMR	**486K53**	LP-CC	**3HZ65**
1 8/10	ATDR	**4ZAV2**	CCMR	**486K54**	LP-CC	**3HZ66**
2	ATDR	**4ZAV3**	CCMR	**486K43**	LP-CC	**1CX49**
2 1/4	ATDR	**4ZAV4**	CCMR	**486K68**	LP-CC	**1CX51**
2 1/2	ATDR	**4ZAV5**	CCMR	**486K58**	LP-CC	**1CX50**
2 8/10	ATDR	**4ZAV6**	—	—	LP-CC	**1CX52**
3	ATDR	**4ZAV7**	CCMR	**486K44**	LP-CC	**1CX55**
3 2/10	ATDR	**4ZAV8**	CCMR	**486K61**	LP-CC	**1CX57**
3 1/2	ATDR	**4ZAV9**	CCMR	**486K62**	LP-CC	**1CX56**
4	ATDR	**4ZAW1**	CCMR	**486K45**	LP-CC	**1CX59**
4 1/2	ATDR	**4ZAW2**	CCMR	**486K64**	LP-CC	**1CX60**
5	ATDR	**4ZAW3**	CCMR	**486K46**	LP-CC	**1CX61**
5 6/10	—	—	CCMR	**486K65**	LP-CC	**1CX62**
6	ATDR	**4ZAW5**	CCMR	**486K47**	LP-CC	**1CX63**
6 1/4	ATDR	**4ZAW6**	CCMR	**486K69**	LP-CC	**1CX64**
7	ATDR	**4ZAW7**	CCMR	**486K48**	LP-CC	**1CX66**
7 1/2	ATDR	**4ZAW8**	CCMR	**486K66**	LP-CC	**1CX67**
8	ATDR	**4ZAW9**	CCMR	**486K49**	LP-CC	**1CX68**
9	ATDR	**4ZAX1**	CCMR	**486K50**	LP-CC	**3KT37**
10	ATDR	**4ZAX2**	CCMR	**486K55**	LP-CC	**1CX46**
12	ATDR	**4ZAX3**	CCMR	**486K56**	LP-CC	**1CX47**
15	ATDR	**4ZAX4**	CCMR	**486K57**	LP-CC	**1CX48**
17 1/2	ATDR	**4ZAX5**	—	—	—	—
20	ATDR	**4ZAX6**	CCMR	**486K59**	LP-CC	**1CX53**
25	ATDR	**4ZAX7**	CCMR	**486K60**	LP-CC	**1CX54**
30	ATDR	**4ZAX8**	CCMR	**486K63**	LP-CC	**1CX58**
Equivalent Series ATQR, FNQ-R, KLDR						
1/10	ATQR	**4ZCA8**	—	—	—	—
1/8	ATQR	**4ZCA9**	—	—	—	—
3/16	ATQR	**4ZCC1**	—	—	—	—
2/10	ATQR	**4ZCC2**	—	—	—	—
1/4	ATQR	**4ZCC3**	KLDR	**486M17**	FNQ-R	**1CT94**
3/10	ATQR	**4ZCC4**	KLDR	**486M18**	FNQ-R	**1CT99**
4/10	ATQR	**4ZCC5**	KLDR	**486M19**	FNQ-R	**1CV02**
1/2	ATQR	**4ZCC6**	KLDR	**486M20**	FNQ-R	**1CT93**
6/10	ATQR	**4ZCC7**	KLDR	**486M21**	FNQ-R	**1CV04**
3/4	ATQR	**4ZCC8**	KLDR	**486M22**	FNQ-R	**1CV01**
8/10	ATQR	**4ZCC9**	KLDR	**486M23**	FNQ-R	**1CV06**
1	ATQR	**4ZCD1**	KLDR	**486M24**	FNQ-R	**6F111**
1 1/8	ATQR	**4ZCD2**	—	—	FNQ-R	**1CT89**
1 1/4	ATQR	**4ZCD3**	KLDR	**486M46**	FNQ-R	**6F112**
1 3/10	—	—	—	—	FNQ-R	**1CT90**
1 4/10	ATQR	**4ZCD4**	KLDR	**486M33**	FNQ-R	**1CT91**
1 1/2	ATQR	**4ZCD5**	KLDR	**486M34**	FNQ-R	**1CT88**
1 6/10	ATQR	**4ZCD6**	KLDR	**486M35**	FNQ-R	**6F113**
1 8/10	ATQR	**4ZCD7**	KLDR	**486M36**	FNQ-R	**1CT92**
2	ATQR	**4ZCD8**	KLDR	**486M25**	FNQ-R	**6F114**
2 1/4	ATQR	**4ZCD9**	—	—	FNQ-R	**1CT95**
2 1/2	ATQR	**4ZCE1**	KLDR	**486M40**	FNQ-R	**6F115**
2 8/10	ATQR	**4ZCE2**	—	—	FNQ-R	**1CT96**
3	ATQR	**4ZCE3**	KLDR	**486M26**	FNQ-R	**6F116**
3 2/10	ATQR	**4ZCE4**	KLDR	**486M43**	FNQ-R	**1CT98**
3 1/2	ATQR	**4ZCE5**	KLDR	**486M44**	FNQ-R	**1CT97**
4	ATQR	**4ZCE6**	KLDR	**486M27**	FNQ-R	**6F117**
4 1/2	ATQR	**4ZCE7**	—	—	FNQ-R	**49ZU36**
5	ATQR	**4ZCE8**	KLDR	**486M28**	FNQ-R	**6F118**
5 6/10	ATQR	**4ZCE9**	—	—	FNQ-R	**49ZU37**
6	ATQR	**4ZCF1**	KLDR	**486M29**	FNQ-R	**6F119**
6 1/4	ATQR	**4ZCF2**	KLDR	**486M47**	FNQ-R	**1CV03**
7	ATQR	**4ZCF3**	KLDR	**486M30**	FNQ-R	**4TWL2**
7 1/2	ATQR	**4ZCF4**	KLDR	**486M45**	FNQ-R	**1CV05**
8	ATQR	**4ZCF5**	KLDR	**486M31**	FNQ-R	**6F121**
9	ATQR	**4ZCF6**	KLDR	**486M32**	FNQ-R	**1CV07**
10	ATQR	**4ZCF7**	KLDR	**486M37**	FNQ-R	**6F122**
12	ATQR	**4ZCF8**	KLDR	**486M38**	FNQ-R	**4TWK6**
15	ATQR	**4ZCF9**	KLDR	**486M39**	FNQ-R	**4TWK7**
17 1/2	ATQR	**4ZCG1**	—	—	FNQ-R	**4TWK8**
20	ATQR	**4ZCG2**	KLDR	**486M41**	FNQ-R	**4TWK9**
25	ATQR	**4ZCG3**	KLDR	**486M42**	FNQ-R	**4TWL1**
30	ATQR	**4ZCG4**	—	—	FNQ-R	**49ZU35**



2AAN6

Safe-Touch (Plug-In Cube) Time-Delay UL Class J Fuses

- AC Voltage Rating 600VAC
- Plug In Body Style
- These are finger-safe time-delay fuses that tolerate temporary inrush currents without opening, which prevents nuisance-blowing. They have a square shape that provides a small footprint for limited-space applications and makes them compatible with finger-safe Class J fuse blocks and holders. They have a visual indicator to make it easier to identify blown fuses.

Amps	Series	Item No.
Safe-Touch (Plug-In Cube) Time-Delay UL Class J Fuses, Indicating		
Equivalent Series TCF		
6	TCF	**2AAN5**
10	TCF	**2AAN4**
15	TCF	**2ABZ7**
17 1/2	TCF	**2ABZ8**
20	TCF	**2ABZ9**
25	TCF	**2ACA1**
30	TCF	**2ACA3**
40	TCF	**2ACA4**
45	TCF	**2ACA5**
50	TCF	**2ACA6**
60	TCF	**2AAN6**
70	TCF	**2AAN7**
80	TCF	**2AAN8**
90	TCF	**2AAN9**
100	TCF	**2ABZ6**

30YD94

Class J Fuses

- AC Voltage Rating 600VAC
- These fuses have a high interrupting rating for protecting against short circuits and are ideal for IEC motor starter applications. These fuses are not interchangeable with any other UL fuse class.

Amps	Series	Item No.
Fast-Acting UL Class J Fuses, Nonindicating		
Equivalent Series A4J, JKS, JLS		
Cylindrical Body Style		
1	JKS	**1DR85**
3	JKS	**4XF08**
4	JKS	**1DR86**
5	JKS	**1DR87**
6	JKS	**4XF09**
10	JKS	**4XF10**
15	JKS	**4XF11**
20	JKS	**4XF12**
25	JKS	**4XF13**
30	JKS	**4XF14**
35	JKS	**4XF15**
40	JKS	**6F351**
45	JKS	**4XF16**
50	JKS	**4XF17**
60	JKS	**4XF18**
Bolt-On Body Style		
70	JKS	**4XF19**
80	JKS	**4XF20**
90	JKS	**6F352**
100	JKS	**4XF21**
110	JKS	**6F353**
125	JKS	**4XF22**
150	JKS	**6F354**
175	JKS	**6F355**
200	JKS	**4XF23**
225	JKS	**6F356**
250	JKS	**6F357**
300	JKS	**6F358**
350	JKS	**6F359**
400	JKS	**4XF24**
450	JKS	**6F360**
600	JKS	**6F362**
Equivalent Series DFJ, HSJ, LDFJ		
Cylindrical Body Style		
1	DFJ	**30YD94**
2	DFJ	**30YD95**
3	DFJ	**30YD96**
4	DFJ	**30YD97**
5	DFJ	**30YD98**
6	DFJ	**30YD99**
8	DFJ	**30YE01**
10	DFJ	**30YE02**
12	DFJ	**30YE03**
15	DFJ	**30YE04**
20	DFJ	**30YE05**
25	DFJ	**30YE06**
30	DFJ	**30YE07**
35	DFJ	**30YE08**
40	DFJ	**30YE09**
45	DFJ	**30YE10**
50	DFJ	**30YE11**
60	DFJ	**30YE12**
Blade Body Style		
70	DFJ	**30YE13**
80	DFJ	**30YE14**
90	DFJ	**30YE15**
100	DFJ	**30YE16**
110	DFJ	**30YE17**
125	DFJ	**30YE18**
150	DFJ	**30YE19**
175	DFJ	**30YE20**
200	DFJ	**30YE21**
225	DFJ	**30YE22**
250	DFJ	**30YE23**
300	DFJ	**30YE24**
350	DFJ	**30YE25**
400	DFJ	**30YE26**
450	DFJ	**30YE27**
500	DFJ	**30YE28**
600	DFJ	**30YE29**
Time-Delay UL Class J Fuses, Indicating		
Equivalent Series AJT, JTD-ID, LPJ-I		
Cylindrical Body Style		
6	LPJ-I	**1VXZ7**
7	LPJ-I	**1VXZ8**
8	LPJ-I	**2AAH5**
9	LPJ-I	**2AAH7**
10	LPJ-I	**2ABR2**
12	LPJ-I	**2ABR5**
15	LPJ-I	**2ABR7**
17 1/2	LPJ-I	**2ABR8**
20	LPJ-I	**2ABT2**
25	LPJ-I	**2ABT5**
30	LPJ-I	**2ABT7**
35	LPJ-I	**2ABT9**
40	LPJ-I	**1PWE4**
45	LPJ-I	**1VXZ1**
50	LPJ-I	**1VXZ3**
60	LPJ-I	**1VXZ6**
Blade Body Style		
70	LPJ-I	**4TWU7**
80	LPJ-I	**2AAH4**
90	LPJ-I	**2AAH6**
100	LPJ-I	**2ABR1**
110	LPJ-I	**2ABR3**
125	LPJ-I	**2ABR4**
150	LPJ-I	**2ABR6**
175	LPJ-I	**2ABR9**
200	LPJ-I	**2ABT1**
225	LPJ-I	**2ABT3**
250	LPJ-I	**2ABT4**
300	LPJ-I	**2ABT6**
350	LPJ-I	**2ABT8**
400	LPJ-I	**1MAH4**
450	LPJ-I	**1VXY9**
500	LPJ-I	**1VXZ2**
600	LPJ-I	**1VXZ5**
Time-Delay UL Class J Fuses, Nonindicating		
Equivalent Series AJT, JTD, LPJ		
Cylindrical Body Style		
1 1/4	LPJ	**1DG79**
1 6/10	LPJ	**1DG80**
1 8/10	LPJ	**1DG81**
1	LPJ	**6F363**
2	LPJ	**4XF25**
2 1/4	LPJ	**1DG83**
2 1/2	LPJ	**1DG82**
2 8/10	LPJ	**1DG84**
3	LPJ	**4XF26**
3 2/10	LPJ	**1DG86**
3 1/2	LPJ	**1DG85**
4	LPJ	**4XF27**
4 1/2	LPJ	**1DG87**
5	LPJ	**4XF28**
5 6/10	LPJ	**1DG88**
6	LPJ	**4XF29**
7	LPJ	**1DG89**
8	LPJ	**4XF30**
9	LPJ	**1DG91**
10	LPJ	**4XF31**
12	LPJ	**6F365**
15	LPJ	**4XF32**
17 1/2	LPJ	**6F366**
20	LPJ	**4XF33**
25	LPJ	**4XF34**
30	LPJ	**4XF35**
35	LPJ	**4XF36**
40	LPJ	**4XF37**
45	LPJ	**6F367**
50	LPJ	**4XF38**
60	LPJ	**4XF39**
Blade Body Style		
70	LPJ	**4XF40**
80	LPJ	**4XF41**
90	LPJ	**6F368**
100	LPJ	**4XF42**
110	LPJ	**6F369**
125	LPJ	**6F370**
150	LPJ	**6F371**
175	LPJ	**6F372**
200	LPJ	**6F373**
225	LPJ	**6F374**
250	LPJ	**6F375**
300	LPJ	**6F376**
350	LPJ	**6F377**
400	LPJ	**6F378**
450	LPJ	**6F379**
500	LPJ	**6F380**
600	LPJ	**6F381**

4XC87

EATON
BUSSMANN SERIES

Semiconductor Fuses

These fuses provide overcurrent protection for solid-state components in power electronics applications. Also known as rectifier fuses, they are extremely current-limiting to prevent electrical damage by disconnecting circuits before they're exposed to the full magnitude and duration of an overcurrent.

Amps	AC Volt Rating	L	Series	Item No.
Fast-Acting Semiconductor Fuses, Indicating				
Equivalent Series 170M, PC, PSR: Bolt-On Body				
350	700V AC	1 31/32 in	170M	**14L635**
Equivalent Series 170N: Bolt-On Body				
65	660V AC	3 9/64 in	170N	**14L650**
Fast-Acting Semiconductor Fuses, Nonindicating				
Equivalent Series A15QS, FWA, L15S: Bolt-On Body				
1,000	150V AC	3 ½ in	FWA-A	**1DL11**
70	150V AC	2 21/32 in	FWA-B	**4XC79**
80	150V AC	2 21/32 in	FWA-B	**4XC80**
100	150V AC	2 21/32 in	FWA-B	**6F254**
150	150V AC	2 21/32 in	FWA-B	**4XC81**
200	150V AC	2 21/32 in	FWA-B	**4XC82**
250	150V AC	2 21/32 in	FWA-B	**4XC83**
300	150V AC	2 21/32 in	FWA-B	**4XC84**
400	150V AC	2 21/32 in	FWA-B	**4XC85**
Equivalent Series A15QS, FWA, L15S: Cylindrical Body				
1,000	130V AC	1 7/8 in	FWA-AH	**1EH41**
1,500	130V AC	1 7/8 in	FWA-AH	**1EH44**
2,000	130V AC	1 7/8 in	FWA-AH	**1EH45**
3,000	130V AC	1 7/8 in	FWA-AH	**1EH47**
4,000	130V AC	1 7/8 in	FWA-AH	**1EH49**
5	150V AC	1 ½ in	FWA-A10F	**4XC71**
10	150V AC	1 ½ in	FWA-A10F	**4XC73**
15	150V AC	1 ½ in	FWA-A10F	**4XC74**
20	150V AC	1 ½ in	FWA-A10F	**4XC75**
25	150V AC	1 ½ in	FWA-A10F	**4XC76**
30	150V AC	1 ½ in	FWA-A10F	**4XC77**
35	150V AC	2 in	FWA-A21F	**6F251**
40	150V AC	2 in	FWA-A21F	**4XC78**
45	150V AC	2 in	FWA-A21F	**1EH50**
50	150V AC	2 in	FWA-A21F	**6F252**
60	150V AC	2 in	FWA-A21F	**6F253**
250	150V AC	2 21/32 in	FWA-ASI4	**4TWL4**
Equivalent Series A30QS, FWX, L25S: Bolt-On Body				
35	250V AC	3 3/16 in	FWX-A	**1DM19**
40	250V AC	3 3/16 in	FWX-A	**4XC94**
50	250V AC	3 3/16 in	FWX-A	**4XC95**
60	250V AC	3 3/16 in	FWX-A	**4XC96**
70	250V AC	3 1/8 in	FWX-A	**4XC97**
80	250V AC	3 1/8 in	FWX-A	**4XC98**
100	250V AC	3 1/8 in	FWX-A	**4XC99**
125	250V AC	3 1/8 in	FWX-A	**6F268**
150	250V AC	3 1/8 in	FWX-A	**4XF00**
175	250V AC	3 1/8 in	FWX-A	**4TWN3**
200	250V AC	3 1/8 in	FWX-A	**4XF01**
225	250V AC	3 27/32 in	FWX-A	**1DL19**
250	250V AC	3 27/32 in	FWX-A	**4XF02**
300	250V AC	3 27/32 in	FWX-A	**4XF03**
350	250V AC	3 27/32 in	FWX-A	**4XF04**
400	250V AC	3 27/32 in	FWX-A	**4XF05**
500	250V AC	3 27/32 in	FWX-A	**4XF06**
600	250V AC	3 27/32 in	FWX-A	**4XF07**
Equivalent Series A30QS, FWX, L25S: Cylindrical Body				
5	250V AC	2 in	FWX-A14F	**4XC87**
10	250V AC	2 in	FWX-A14F	**4XC89**
12	250V AC	2 in	FWX-A14F	**6F267**
15	250V AC	2 in	FWX-A14F	**4XC90**
20	250V AC	2 in	FWX-A14F	**4XC91**
25	250V AC	2 in	FWX-A14F	**4XC92**
30	250V AC	2 in	FWX-A14F	**4XC93**
Equivalent Series A50P, A50QS, FWH, L50S: Bolt-On Body				
1,200	500V AC	6 31/32 in	FWH-A	**4TWL9**
1,400	500V AC	10 7/32 in	FWH-A	**1EH60**
1,600	500V AC	10 7/32 in	FWH-A	**1EH61**
35	500V AC	3 3/16 in	FWH-A	**1BZ87**
35	500V AC	3 3/16 in	FWH-B	**6F387**
40	500V AC	3 3/16 in	FWH-A	**1BZ88**
45	500V AC	3 3/16 in	FWH-B	**1BZ91**
50	500V AC	3 3/16 in	FWH-B	**6F389**
60	500V AC	3 3/16 in	FWH-B	**6F390**
60	500V AC	3 3/16 in	FWH-A	**1CV34**
70	500V AC	3 5/8 in	FWH-A	**1DX46**
70	500V AC	3 5/8 in	FWH-B	**6F391**
80	500V AC	3 5/8 in	FWH-A	**4TWN2**
80	500V AC	3 5/8 in	FWH-B	**6F392**
90	500V AC	3 5/8 in	FWH-B	**6F393**
100	500V AC	3 5/8 in	FWH-A	**1DX45**
100	500V AC	3 5/8 in	FWH-B	**6F394**
125	500V AC	3 5/8 in	FWH-A	**1DF55**
125	500V AC	3 5/8 in	FWH-B	**6F395**
150	500V AC	3 5/8 in	FWH-B	**6F396**
175	500V AC	3 5/8 in	FWH-B	**6F397**
200	500V AC	3 5/8 in	FWH-B	**6F398**
225	500V AC	4 11/32 in	FWH-A	**6F399**
250	500V AC	4 11/32 in	FWH-A	**6F400**
275	500V AC	4 11/32 in	FWH-A	**1DL17**
300	500V AC	4 11/32 in	FWH-A	**6F401**
325	500V AC	4 11/32 in	FWH-A	**1EM09**
350	500V AC	4 11/32 in	FWH-A	**6F403**
400	500V AC	4 11/32 in	FWH-A	**6F404**
450	500V AC	4 11/32 in	FWH-A	**4TWN1**
500	500V AC	4 11/32 in	FWH-A	**6F406**
600	500V AC	4 11/32 in	FWH-A	**6F407**
700	500V AC	6 11/32 in	FWH-A	**6F408**
800	500V AC	6 11/32 in	FWH-A	**6F409**
Equivalent Series A50P, A50QS, FWH, L50S: Cylindrical Body				
5	500V AC	1 ¼ in	FWH-A6F	**4TWL7**
10	500V AC	2 in	FWH-A14F	**6F382**
15	500V AC	2 in	FWH-A14F	**6F383**
16	500V AC	1 ¼ in	FWH-A6F	**4TWL8**
20	500V AC	2 in	FWH-A14F	**6F384**
25	500V AC	2 in	FWH-A14F	**6F385**
30	500V AC	2 in	FWH-A14F	**6F386**
Equivalent Series A60Q, FWC: Cylindrical Body				
6	600V AC	1 ½ in	FWC-A10F	**4TWL6**
10	600V AC	1 ½ in	FWC-A10F	**4TWL5**
12	600V AC	1 ½ in	FWC-A10F	**1EH53**
16	600V AC	1 ½ in	FWC-A10F	**1EH54**
20	600V AC	1 ½ in	FWC-A10F	**1EH55**
25	600V AC	1 ½ in	FWC-A10F	**1EH56**
32	600V AC	1 ½ in	FWC-A10F	**1EH57**
Equivalent Series A60X, KAC, KLC: Bolt-On Body				
20	600V AC	2 7/8 in	KAC	**1DK16**
25	600V AC	2 7/8 in	KAC	**4TWR9**
30	600V AC	2 7/8 in	KAC	**1DK19**
60	600V AC	4 3/8 in	KAC	**4TWT1**
70	600V AC	5 in	KAC	**1EM13**
100	600V AC	5 in	KAC	**1EM12**
125	600V AC	5 9/64 in	KAC	**1DM65**
150	600V AC	5 9/64 in	KAC	**2GWC6**
175	600V AC	5 9/64 in	KAC	**2GWC7**
200	600V AC	5 9/64 in	KAC	**1DM68**
250	600V AC	6 3/16 in	KAC	**2GWC8**
300	600V AC	6 3/16 in	KAC	**2GWC9**
400	600V AC	6 3/16 in	KAC	**1EN68**
500	600V AC	6 ¼ in	KAC	**1EV21**
600	600V AC	6 ¼ in	KAC	**2GWD1**
Equivalent Series A70P, A70QS, FWP, L70QS: Bolt-On Body				
1,000	700V AC	7 5/8 in	FWP-A	**1EH90**
70	700V AC	4 13/32 in	FWP-B	**6F422**
80	700V AC	4 13/32 in	FWP-B	**6F423**
90	700V AC	4 13/32 in	FWP-B	**6F424**
100	700V AC	4 13/32 in	FWP-B	**6F425**
100	700V AC	4 7/16 in	FWP-A	**1DJ80**
125	700V AC	5 3/32 in	FWP-A	**6F426**
150	700V AC	5 3/32 in	FWP-A	**6F427**
175	700V AC	5 3/32 in	FWP-A	**6F428**
200	700V AC	5 3/32 in	FWP-A	**6F429**
225	700V AC	5 3/32 in	FWP-A	**6F430**
250	700V AC	5 3/32 in	FWP-A	**6F431**
300	700V AC	5 3/32 in	FWP-A	**6F432**
350	700V AC	5 3/32 in	FWP-A	**6F433**
400	700V AC	5 3/32 in	FWP-A	**6F434**
500	700V AC	7 3/32 in	FWP-A	**6F435**
600	700V AC	7 3/32 in	FWP-A	**6F436**
800	700V AC	6 5/8 in	FWP-A	**1EP02**
Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
10	700V AC	2 in	FWP-A14F	**6F410**
15	700V AC	2 in	FWP-A14F	**6F411**
20	700V AC	2 in	FWP-A14F	**6F413**
25	700V AC	2 in	FWP-A14F	**6F415**
30	700V AC	2 in	FWP-A14F	**6F417**
32	700V AC	2 in	FWP-A14F	**1EH96**
40	700V AC	2 in	FWP-A14F	**1EH99**
50	700V AC	2 in	FWP-A14F	**1EJ02**
50	700V AC	2 9/32 in	FWP-A22F	**1EJ03**
63	700V AC	2 9/32 in	FWP-A22F	**1EJ05**
80	700V AC	2 9/32 in	FWP-A22F	**1EJ07**
100	700V AC	2 9/32 in	FWP-A22F	**1EH91**
Equivalent Series A70QS, FWJ: Bolt-On Body				
2,000	1000V AC	6 13/16 in	FWJ	**1EH71**
50	1000V AC	5 in	FWJ	**1EH84**
80	1000V AC	4 15/16 in	FWJ	**1EH88**
150	1000V AC	5 11/16 in	FWJ	**1EH67**
200	1000V AC	5 11/16 in	FWJ	**1EH72**
300	1000V AC	5 ¾ in	FWJ	**1EH76**
Equivalent Series A70QS, FWJ: Cylindrical Body				
25	1000V AC	2 5/8 in	FWJ-A14F	**1EH75**
30	1000V AC	2 5/8 in	FWJ-A14F	**1EH77**
Equivalent Series AFX: Blade Body				
70	125V AC	3 ½ in	AFX	**1EN15**
100	125V AC	3 ½ in	AFX	**1EN07**
Equivalent Series KAJ: Cylindrical Body				
60	600V AC	3 in	KAJ	**1DZ67**
Very Fast-Acting Semiconductor Fuses, Indicating				
Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
50	700V AC	2 19/32 in	FWP	**49ZU47**
Very Fast-Acting Semiconductor Fuses, Nonindicating				
Equivalent Series A15QS, FWA, L15S: Bolt-On Body				
125	150V AC	2 21/32 in	FWA	**49ZU38**
600	150V AC	3 ¾ in	FWA	**49ZU39**
Equivalent Series A30QS, FWX, L25S: Bolt-On Body				
90	250V AC	3 1/8 in	FWX	**49ZU51**
700	250V AC	3 27/32 in	FWX	**49ZU49**
800	250V AC	3 27/32 in	FWX	**49ZU50**
Equivalent Series A50P, A50QS, FWH, L50S: Bolt-On Body				
40	500V AC	3 3/16 in	FWH	**49ZU43**
Equivalent Series A60Q, FWC: Cylindrical Body				
8	600V AC	1 ½ in	FWC	**49ZU42**
30	600V AC	1 ½ in	FWC	**49ZU41**
Equivalent Series A60X, KAC, KLC: Bolt-On Body				
35	600V AC	4 3/8 in	KAC	**49ZU66**
50	600V AC	4 3/8 in	KAC	**49ZU67**
80	600V AC	5 in	KAC	**49ZU68**
Equivalent Series A70P, A70QS, FWP, L70QS: Bolt-On Body				
15	700V AC	2 7/8 in	FWP	**49ZU45**
Equivalent Series A70P, A70QS, FWP, L70QS: Cylindrical Body				
40	700V AC	2 9/32 in	FWP	**49ZU46**

6F518

EATON
BUSSMANN SERIES

Class L Fuses

- AC Voltage Rating 600VAC
- Bolt-On Body Style

These fuses protect electrical feeders and service equipment from overcurrent. These fuses are not interchangeable with any other UL fuse class. Class L fuses bolt onto their mountings for a secure hold.

Amps	Series	Item No.
Fast-Acting UL Class L Fuses, Nonindicating		
Equivalent Series A4BY, KLPC, KTU		
1,000	KTU	**1EX15**
1,200	KTU	**1EX16**
1,600	KTU	**1FF40**
2,000	KTU	**4TWU5**
601	KTU	**4TWU6**
800	KTU	**1EX20**
Time-Delay UL Class L Fuses, Nonindicating		
Equivalent Series A4BQ, A4BY, KLPC, KRP-C		
1,000	KRP-C	**6F519**
1,200	KRP-C	**6F520**
1,600	KRP-C	**6F521**
1,100	KRP-C	**49ZU82**
1,350	KRP-C	**49ZU83**
1,400	KRP-C	**49ZU84**
1,500	KRP-C	**49ZU85**
1,800	KRP-C	**49ZU86**
1,900	KRP-C	**49ZU87**
2,000	KRP-C	**6F522**
2,500	KRP-C	**49ZU89**
2,001	KRP-C	**49ZU88**
3,000	KRP-C	**6F524**
4,000	KRP-C	**6F525**
601	KRP-C	**49ZU93**
650	KRP-C	**49ZU94**
700	KRP-C	**1EW37**
750	KRP-C	**49ZU95**
800	KRP-C	**6F518**
801	KRP-C	**49ZU96**
900	KRP-C	**49ZU97**
Equivalent Series A4BQ, A4BY, KLPC, KRP-CL		
600	KRP-CL	**49ZV01**
Equivalent Series A4BY, KLLU, KLPC, KLU		
1,000	KLU	**4XC66**
1,200	KLU	**4XC67**
1,600	KLU	**4XC68**
1,800	KLU	**49ZU81**
2,000	KLU	**4XC69**
2,500	KLU	**6F526**
3,000	KLU	**4TWU1**
4,000	KLU	**4TWU2**
601	KLU	**1EW32**
650	KLU	**1EW33**
700	KLU	**1EW34**
800	KLU	**4XC65**

1CP16

EATON
BUSSMANN SERIES

Class G Fuses

- Cylindrical Body Style

These fuses protect against overcurrent in nondemanding applications. Each Class G fuse size will only fit its matching Class G fuse block or holder to prevent the wrong size fuse from being installed. They are not interchangeable with any other UL fuse class. These fuses have an interrupting rating (IR) of 100kA.

Amps	AC Volt Rating	Series	Item No.
Fast-Acting UL Class G Fuses, Nonindicating			
Equivalent Series AG, SC, SLC			
½	600V AC	SC	**1CP18**
1	600V AC	SC	**1CP16**
1 ½	600V AC	SC	**1CP17**
2	600V AC	SC	**1CP22**
3	600V AC	SC	**1CP23**
4	600V AC	SC	**1CP24**
5	600V AC	SC	**1CP25**
6	600V AC	SC	**1CP26**
Time-Delay UL Class G Fuses, Nonindicating			
Equivalent Series AG, SC, SLC			
8	600V AC	SC	**1CP27**
10	600V AC	SC	**1CP19**
12	600V AC	SC	**1CP20**
15	600V AC	SC	**1CP21**
20	600V AC	SC	**1CZ45**
25	480V AC	SC	**1BW84**
30	480V AC	SC	**1BW85**
35	480V AC	SC	**1DH42**
40	480V AC	SC	**1DH43**
45	480V AC	SC	**1DH44**
50	480V AC	SC	**1DH45**
60	480V AC	SC	**1DH46**

1DH28

EATON
BUSSMANN SERIES

Class K5 and H Fuses

These fuses are for general purpose use. They're highly sensitive to changes in current flow and open within seconds of being exposed to overloads and short circuits. They have no indicator for identifying a blown fuse. Class H fuses have an interrupting rating (IR) of 10kA. Class K5 fuses have an IR of 50kA and are current-limiting to prevent electrical damage.

Amps	AC Volt Rating	Fuse Size	Series	Item No.
Fast-Acting UL Class H & K5 Fuses, Nonindicating				
Equivalent Series NLN, NON, OT				
Cylindrical Body Style				
⅛	250V AC	2 in L x 9/16 in dia	NON	**1DH27**
½	250V AC	2 in L x 9/16 in dia	NON	**1DH26**
¾	250V AC	2 in L x 9/16 in dia	NON	**1DH35**
1 ½	250V AC	2 in L x 9/16 in dia	NON	**1DH25**
1	250V AC	2 in L x 9/16 in dia	NON	**4XF85**
2 ½	250V AC	2 in L x 9/16 in dia	NON	**1DH33**
2	250V AC	2 in L x 9/16 in dia	NON	**6C164**
3	250V AC	2 in L x 9/16 in dia	NON	**4XF86**
4	250V AC	2 in L x 9/16 in dia	NON	**6C165**
5	250V AC	2 in L x 9/16 in dia	NON	**6C166**
6	250V AC	2 in L x 9/16 in dia	NON	**4XF87**
6 ¼	250V AC	2 in L x 9/16 in dia	NON	**1DH36**
7	250V AC	2 in L x 9/16 in dia	NON	**6F271**
8	250V AC	2 in L x 9/16 in dia	NON	**4XF88**
10	250V AC	2 in L x 9/16 in dia	NON	**4XF89**
12	250V AC	2 in L x 9/16 in dia	NON	**6F272**
15	250V AC	2 in L x 9/16 in dia	NON	**4XF90**
20	250V AC	2 in L x 9/16 in dia	NON	**4XF91**
25	250V AC	2 in L x 9/16 in dia	NON	**4XF92**
30	250V AC	2 in L x 9/16 in dia	NON	**4XF93**
35	250V AC	3 in L x 13/16 in dia	NON	**4XF94**
40	250V AC	3 in L x 13/16 in dia	NON	**4XF95**
45	250V AC	3 in L x 13/16 in dia	NON	**6F273**
50	250V AC	3 in L x 13/16 in dia	NON	**4XF96**
60	250V AC	3 in L x 13/16 in dia	NON	**4XF97**
Blade Body Style				
70	250V AC	5⅞ in L x 1 1/16 in dia	NON	**1DX82**
80	250V AC	5⅞ in L x 1 1/16 in dia	NON	**1DX83**
90	250V AC	5⅞ in L x 1 1/16 in dia	NON	**1DX84**
100	250V AC	5⅞ in L x 1 1/16 in dia	NON	**1DH28**
125	250V AC	7⅛ in L x 1 9/16 in dia	NON	**1DH30**
150	250V AC	7⅛ in L x 1 9/16 in dia	NON	**1DH31**
175	250V AC	7⅛ in L x 1 9/16 in dia	NON	**1DH32**
200	250V AC	7⅛ in L x 1 9/16 in dia	NON	**1DR08**
300	250V AC	8⅝ in L x 2 1/16 in dia	NON	**1EM27**
350	250V AC	8⅝ in L x 2 1/16 in dia	NON	**1EM28**
400	250V AC	8⅝ in L x 2 1/16 in dia	NON	**1EM29**
600	250V AC	10⅜ in L x 2 19/32 in dia	NON	**1ET97**
Equivalent Series NLS, NOS, OTS				
Cylindrical Body Style				
1	600V AC	5 in L x 13/16 in dia	NOS	**1EM30**
2	600V AC	5 in L x 13/16 in dia	NOS	**1EM31**
3	600V AC	5 in L x 13/16 in dia	NOS	**1EM32**
4	600V AC	5 in L x 13/16 in dia	NOS	**1EM33**
5	600V AC	5 in L x 13/16 in dia	NOS	**4XH02**
6	600V AC	5 in L x 13/16 in dia	NOS	**4XH03**
7	600V AC	5 in L x 13/16 in dia	NOS	**1EM34**
8	600V AC	5 in L x 13/16 in dia	NOS	**6F293**
10	600V AC	5 in L x 13/16 in dia	NOS	**4XH04**
12	600V AC	5 in L x 13/16 in dia	NOS	**6F294**
15	600V AC	5 in L x 13/16 in dia	NOS	**4XH05**
20	600V AC	5 in L x 13/16 in dia	NOS	**4XH06**
25	600V AC	5 in L x 13/16 in dia	NOS	**4XH07**
30	600V AC	5 in L x 13/16 in dia	NOS	**4XH08**
35	600V AC	5½ in L x 1 1/16 in dia	NOS	**4XH09**
40	600V AC	5½ in L x 1 1/16 in dia	NOS	**4XH10**
45	600V AC	5½ in L x 1 1/16 in dia	NOS	**4XH11**
50	600V AC	5½ in L x 1 1/16 in dia	NOS	**4XH12**
60	600V AC	5½ in L x 1 1/16 in dia	NOS	**4XH13**
Blade Body Style				
70	600V AC	7 15/16 in L x 1 5/16 in dia	NOS	**1DR15**
80	600V AC	7 15/16 in L x 1 5/16 in dia	NOS	**1DR16**
90	600V AC	7 15/16 in L x 1 5/16 in dia	NOS	**1DR17**
100	600V AC	7 15/16 in L x 1 5/16 in dia	NOS	**1DR09**
110	600V AC	9⅝ in L x 1 13/16 in dia	NOS	**1DR10**
125	600V AC	9⅝ in L x 1 13/16 in dia	NOS	**1DR11**
150	600V AC	9⅝ in L x 1 13/16 in dia	NOS	**1DR12**
175	600V AC	9⅝ in L x 1 13/16 in dia	NOS	**1DR13**
200	600V AC	9⅝ in L x 1 13/16 in dia	NOS	**1DR14**
250	600V AC	11⅝ in L x 2 19/32 in dia	NOS	**1DT01**
300	600V AC	11⅝ in L x 2 19/32 in dia	NOS	**1DT02**
400	600V AC	11⅝ in L x 2 19/32 in dia	NOS	**1DT04**

1CR56

EATON
BUSSMANN SERIES

Forklift Limiter Fuses

These fuses provide overcurrent protection for heavy-duty loads in lift trucks, scissor lifts, pallet movers, and other DC battery-powered equipment. They bolt onto their mountings for a secure hold. **ACK, ACL, and ALS Series fuses** have no indicator for identifying a blown fuse, so they're sometimes used with an indicating fuse block or cover. **ANL Series fuses** are time-delay and have a see-through window that reveals whether the fuse wire is intact or has melted. **ANN series fuses** are fast-acting and have a see-through window. The **fuse block** holds flat-body series ANL and ANN fuses.

Amps	DC Volt Rating	Body Style	Fuse Size	Series	Item No.
Fast-Acting Forklift Fuses, Indicating					
Equivalent Series ANN, CNN					
50 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC85**
60 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC87**
80 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC90**
100 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC71**
125 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC72**
150 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC73**
175 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC74**
200 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC75**
225 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC76**
250 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC77**
275 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC78**
300 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC79**
325 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC80**
350 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC82**
400 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC84**
500 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC86**
600 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**5KDK5**
800 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANN	**1DC91**
General Purpose Forklift Fuses, Nonindicating					
Equivalent Series ALS					
500 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**1EW67**
550 A	48V DC	Bolt-On	4¼ in L x 1 19/32 in dia	ALS	**1EW68**
250 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**38C732**
300 A	80V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**38C733**
400 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**38C734**
175 A	130V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**49ZT91**
200 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**49ZT92**
225 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**49ZT93**
350 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**49ZT94**
450 A	48V DC	Bolt-On	3¾ in L x 1 1/16 in dia	ALS	**49ZT95**
Time-Delay Forklift Fuses, Indicating					
Equivalent Series ANL, CNL					
35 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC62**
40 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC64**
50 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC66**
60 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC68**
80 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC69**
100 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC51**
125 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC52**
130 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC53**
150 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC54**
175 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC55**
200 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC56**
225 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC57**
250 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC58**
275 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC59**
300 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC60**
325 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC61**
350 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC63**
400 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC65**
500 A	80V DC	Bolt-On	3 3/16 in L x ⅞ in dia	ANL	**1DC67**
Time-Delay Forklift Fuses, Nonindicating					
Equivalent Series ACK, CCK					
30 A	130V DC	Bolt-On	2½ in L x 9/16 in dia	ACK	**1CR56**
60 A	130V DC	Bolt-On	3 in L x ⅞ in dia	ACK	**1CR61**
140 A	72V DC	Bolt-On	3¾ in L x 1 5/32 in dia	ACK	**1EM94**
200 A	72V DC	Bolt-On	3¾ in L x 1 5/32 in dia	ACK	**1EM98**
300 A	48V DC	Bolt-On	3¾ in L x 1⅛ in dia	ACK	**1EN02**
80 A	130V DC	Bolt-On	3½ in L x 1⅛ in dia	ACK	**1EN05**
175 A	72V DC	Bolt-On	3¾ in L x 1 5/32 in dia	ACK	**49ZT88**
Equivalent Series ACL, CCL					
50 A	72V DC	Bolt-On	2½ in L x 9/16 in dia	ACL	**49ZT89**
60 A	72V DC	Bolt-On	2½ in L x 9/16 in dia	ACL	**49ZT90**

Amp Range	DC Volt Rating	Compatible Fuse Series	Series	Item No.
Fuse Blocks for Forklift Limiter Fuses				
10 to 800 A	80VDC	ANL, ANN, CNL, CNN	4164	**1DK98**

4YEY4

EATON
BUSSMANN SERIES

Medium Voltage Fuses

These fuses provide overcurrent protection at voltages greater than 600VAC for use in medium-voltage transformers, feeder circuits, motor circuits, and fused switches. They meet American National Standards Institute (ANSI) design standards. **E-rated fuses** are for general purpose use. **R-rated fuses** are for backup applications. **PT-rated fuses** are for protecting potential transformers.

Amps	AC Volt Rating	Visual Indication	Fuse Size	Item No.
E-Rated Medium-Voltage Fuses				
Equivalent Series ABWNA				
½ A	5,500V AC	Nonindicating	5 19/32 in L x 1 in dia	**4YEX2**
1 A	5,500V AC	Nonindicating	5 19/32 in L x 1 in dia	**4YEX5**
2 A	5,500V AC	Nonindicating	5 19/32 in L x 1 in dia	**4YEY3**
3 A	5,500V AC	Nonindicating	5 19/32 in L x 1 in dia	**4YEY2**
5 A	5,500V AC	Nonindicating	5 19/32 in L x 1 in dia	**4YEZ6**
Equivalent Series CAVH				
½ A	15,500V AC	Indicating	12⅞ in L x 1⅝ in dia	**4YEV2**
1 A	15,500V AC	Nonindicating	12⅞ in L x 1⅝ in dia	**4YEW4**
2 A	15,500V AC	Nonindicating	12⅞ in L x 1⅝ in dia	**4YEY6**
Equivalent Series JCU				
400 A	5,500V AC	Indicating	17⅞ in L x 3 in dia	**4YEX8**
Equivalent Series JCW				
½ A	2750/5500V AC	Nonindicating	7 5/16 in L x 1 9/16 in dia	**4YEX6**
1 A	2750/5500V AC	Nonindicating	7 5/16 in L x 1 9/16 in dia	**4YEX3**
2 A	2750/5500V AC	Nonindicating	7 5/16 in L x 1 9/16 in dia	**4YEW2**
3 A	2750/5500V AC	Nonindicating	7 5/16 in L x 1 9/16 in dia	**4YEW7**
Equivalent Series JCY				
200 A	5,500V AC	Indicating	15⅞ in L x 3 in dia	**1FG16**
PT Medium-Voltage fuses				
Equivalent Series A240T, JCD				
2 A	2750V AC	Nonindicating	4½ in L x 51/64 in dia	**4YEW5**
Equivalent Series A480T, AMWNA				
½ A	5,500V AC	Nonindicating	5 19/32 in L x 51/64 in dia	**4YEW3**
1 A	5,500V AC	Nonindicating	5 19/32 in L x 51/64 in dia	**4YEW6**
2 A	5,500V AC	Nonindicating	5 19/32 in L x 51/64 in dia	**4YEV9**
3 A	5,500V AC	Nonindicating	5 19/32 in L x 51/64 in dia	**4YEY5**
5 A	5,500V AC	Nonindicating	5 19/32 in L x 51/64 in dia	**4YEV5**
Equivalent Series ABFNA				
3 3/20 A	15,500V AC	Nonindicating	10 in L x 1 in dia	**4YEY4**
Equivalent Series JCQ				
5 A	5,500V AC	Indicating	9½ in L x 1 39/64 in dia	**4YEZ7**
R-Rated Medium-Voltage Fuses				
Equivalent Series A240R, JCK				
70 A	2540V AC	Indicating	11¼ in L x 3 in dia	**1FG56**
100 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEX1**
130 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEV6**
150 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEZ1**
200 A	2540V AC	Indicating	11¼ in L x 3 in dia	**1FG61**
230 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEW9**
390 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEW8**
450 A	2540V AC	Indicating	11 15/64 in L x 3 in dia	**4YEX4**
Equivalent Series JCR				
130 A	8300V AC	Indicating	15 27/32 in L x 3 in dia	**4YEY7**
170 A	8300V AC	Indicating	15 27/32 in L x 3 in dia	**4YEY1**

Glass Fuses

EATON BUSSMANN SERIES | FERRAZ SHAWMUT IS NOW MERSEN MERSEN

These fuses provide overcurrent protection for low-current circuits. They're used for applications where they won't be exposed to high heat that could shatter the glass. Their small, cylindrical body is see-through for checking whether the fuse wire is intact or has melted.

1CC56

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
Fast-Acting Glass Fuses					
Equiv. Series 217, GDB, GSB, S500, Size 20mm L x 5mm dia					
1 ¼	250V AC	GDB	Bussmann	**1CC56**	5
1 6/10	250V AC	GDB	Bussmann	**1CC57**	5
1	250V AC	GDB	Bussmann	**1CC62**	5
1 ¼	250V AC	S500	Bussmann	**2ABU7**	5
1 6/10	250V AC	S500	Bussmann	**2ABU8**	5
1	250V AC	S500	Bussmann	**2ABV4**	5
2.5	250V AC	GDB	Bussmann	**1CC63**	5
2	250V AC	GDB	Bussmann	**1CC66**	5
2.5	250V AC	S500	Bussmann	**2ABV5**	5
2	250V AC	S500	Bussmann	**2ABV8**	5
3 15/100	250V AC	GDB	Bussmann	**1CC67**	5
3 15/100	250V AC	S500	Bussmann	**2ABV9**	5
4	250V AC	GDB	Bussmann	**1CC72**	5
4	250V AC	S500	Bussmann	**2ABW5**	5
5	250V AC	GDB	Bussmann	**1CC75**	5
5	250V AC	S500	Bussmann	**2ABW8**	5
6 3/10	250V AC	GDB	Bussmann	**1CC76**	5
6 3/10	250V AC	S500	Bussmann	**2ABW9**	5
8	250V AC	GDB	Bussmann	**1CD03**	5
8	250V AC	S500	Bussmann	**2ABX5**	5
10	250V AC	GDB	Bussmann	**1CC59**	5
10	250V AC	S500	Bussmann	**2ABV1**	5
32 m	250V AC	S500	Bussmann	**2ABW2**	5
32 m	250V AC	GDB	Bussmann	**4TWN8**	5
50 m	250V AC	S500	Bussmann	**2ABW7**	5
63 m	250V AC	GDB	Bussmann	**1CC78**	5
63 m	250V AC	S500	Bussmann	**2ABX2**	5
80 m	250V AC	S500	Bussmann	**2ABX4**	5
100 m	250V AC	GDB	Bussmann	**1CC58**	5
100 m	250V AC	S500	Bussmann	**2ABU9**	5
125 m	250V AC	GDB	Bussmann	**1CC60**	5
125 m	250V AC	S500	Bussmann	**2ABV2**	5
160 m	250V AC	GDB	Bussmann	**1CC61**	5
160 m	250V AC	S500	Bussmann	**2ABV3**	5
200 m	250V AC	GDB	Bussmann	**1CC64**	5
200 m	250V AC	S500	Bussmann	**2ABV6**	5
250 m	250V AC	GDB	Bussmann	**1CC65**	5
250 m	250V AC	S500	Bussmann	**2ABV7**	5
315 m	250V AC	GDB	Bussmann	**1CC68**	5
315 m	250V AC	S500	Bussmann	**2ABW1**	5
400 m	250V AC	GDB	Bussmann	**1CC70**	5
400 m	250V AC	S500	Bussmann	**2ABW3**	5
500 m	250V AC	GDB	Bussmann	**1CC73**	5
500 m	250V AC	S500	Bussmann	**2ABW6**	5
630 m	250V AC	GDB	Bussmann	**1CC77**	5
630 m	250V AC	S500	Bussmann	**2ABX1**	5
800 m	250V AC	GDB	Bussmann	**1CC79**	5
800 m	250V AC	S500	Bussmann	**2ABX3**	5
Equiv. Series 235, GGM, GMA, Size 20mm L x 5mm dia					
1 ¼	250V AC	GMA	Bussmann	**1CJ35**	5
1	250V AC	GMA	Bussmann	**6F097**	5
1.5	250V AC	GMA	Bussmann	**6F099**	5
1 6/10	250V AC	GMA	Bussmann	**6F100**	5
2	250V AC	GMA	Bussmann	**6F101**	5
2.5	250V AC	GMA	Bussmann	**6F102**	5
3 15/100	125V AC	GMA	Bussmann	**1CJ39**	5
3 ½	125V AC	GMA	Bussmann	**1CJ40**	5
3	250V AC	GMA	Bussmann	**6F103**	5
4	125V AC	GMA	Bussmann	**6F104**	5
5	125V AC	GMA	Bussmann	**6F105**	5
6	125V AC	GMA	Bussmann	**6F106**	5
7	125V AC	GMA	Bussmann	**1CJ45**	5
8	125V AC	GMA	Bussmann	**1CJ46**	5
10	125V AC	GMA	Bussmann	**1CJ36**	5
15	125V AC	GMA	Bussmann	**1CJ37**	5
63 m	250V AC	GMA	Bussmann	**6F087**	5
100 m	250V AC	GMA	Bussmann	**6F088**	5
125 m	250V AC	GMA	Bussmann	**6F089**	5
200 m	250V AC	GMA	Bussmann	**6F090**	5
250 m	250V AC	GMA	Bussmann	**6F091**	5
300 m	250V AC	GMA	Bussmann	**1CJ41**	5
315 m	250V AC	GMA	Bussmann	**4CX54**	5
500 m	250V AC	GMA	Bussmann	**6F093**	5
600 m	250V AC	GMA	Bussmann	**4CX55**	5
750 m	250V AC	GMA	Bussmann	**6F094**	5
800 m	250V AC	GMA	Bussmann	**6F096**	5
Equiv. Series 311, 312, 3AG, AGC, GGC, MMB, Size 1¼ in L x ¼ in dia					
0.25	250V AC	AGC	Bussmann	**4XH37**	5
0.5	250V AC	AGC	Bussmann	**4XH38**	5
0.5	250V AC	GGC	Mersen	**5LAW2**	5
0.25	250V AC	GGC	Mersen	**5LAW3**	5
1/200	250V AC	AGC	Bussmann	**1BZ02**	5
1/20	250V AC	AGC	Bussmann	**1BZ01**	5
1/10	250V AC	AGC	Bussmann	**6F003**	5
⅛	250V AC	AGC	Bussmann	**4XH36**	5
⅛	250V AC	GGC	Mersen	**5LAW4**	5
15/100	250V AC	AGC	Bussmann	**6F002**	5
3/16	250V AC	AGC	Bussmann	**6F005**	5
2/10	250V AC	GGC	Mersen	**5LAX2**	5
2/10	250V AC	AGC	Bussmann	**6F006**	5
3/10	250V AC	GGC	Mersen	**5LAX7**	5
3/10	250V AC	AGC	Bussmann	**6F007**	5
⅜	250V AC	GGC	Mersen	**5LAX9**	5

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
⅜	250V AC	AGC	Bussmann	**6F008**	5
4/10	250V AC	AGC	Bussmann	**6F009**	5
6/10	250V AC	GGC	Mersen	**5LAY5**	5
6/10	250V AC	AGC	Bussmann	**6F010**	5
¾	250V AC	AGC	Bussmann	**4XH39**	5
¾	250V AC	GGC	Mersen	**5LAX8**	5
8/10	250V AC	AGC	Bussmann	**6F011**	5
1	250V AC	AGC	Bussmann	**4XH40**	5
1.5	250V AC	AGC	Bussmann	**4XH41**	5
1	250V AC	GGC	Mersen	**5LAW0**	5
1.5	250V AC	GGC	Mersen	**5LAW6**	5
1 ¼	250V AC	GGC	Mersen	**5LAW7**	5
1 6/10	250V AC	GGC	Mersen	**5LAX0**	5
1 ¼	250V AC	AGC	Bussmann	**6F012**	5
1 6/10	250V AC	AGC	Bussmann	**6F013**	5
2	250V AC	AGC	Bussmann	**4XH42**	5
2.5	250V AC	AGC	Bussmann	**4XH43**	5
2	250V AC	GGC	Mersen	**5LAX1**	5
2.5	250V AC	GGC	Mersen	**5LAX4**	5
2 ¼	250V AC	AGC	Bussmann	**6F014**	5
3 ½	250V AC	AGC	Bussmann	**1BZ08**	5
3	250V AC	AGC	Bussmann	**4XH44**	5
3	250V AC	GGC	Mersen	**5LAX6**	5
3 2/10	250V AC	GGC	Mersen	**5LAY1**	5
3 2/10	250V AC	AGC	Bussmann	**6F015**	5
4	250V AC	AGC	Bussmann	**4XH45**	5
4	250V AC	GGC	Mersen	**5LAY2**	5
5	250V AC	AGC	Bussmann	**4XH46**	5
5	250V AC	GGC	Mersen	**5LAY3**	5
6.25	250V AC	AGC	Bussmann	**1BZ13**	5
6	250V AC	AGC	Bussmann	**4XH47**	5
6	250V AC	GGC	Mersen	**5LAY4**	5
6 3/10	250V AC	GGC	Mersen	**5LAY6**	5
7	250V AC	AGC	Bussmann	**1BZ14**	5
7	250V AC	GGC	Mersen	**5LAY7**	5
7 ½	250V AC	GGC	Mersen	**5LAY8**	5
7 ½	250V AC	AGC	Bussmann	**6F018**	5
8	250V AC	AGC	Bussmann	**4XH48**	5
8	250V AC	GGC	Mersen	**5LAY9**	5
9	250V AC	AGC	Bussmann	**1BZ15**	5
10	250V AC	AGC	Bussmann	**4XH49**	5
10	250V AC	GGC	Mersen	**5LAW5**	5
12	32V AC	AGC	Bussmann	**1BZ05**	5
12	125V AC	GGC	Mersen	**5LAW8**	5
14	32V AC	AGC	Bussmann	**1BZ06**	5
15	32V AC	AGC	Bussmann	**1BZ07**	5
15	125V AC	GGC	Mersen	**5LAW9**	5
20	32V AC	AGC	Bussmann	**4XH51**	5
20	32V AC	GGC	Mersen	**5LAX3**	5
25	32V AC	AGC	Bussmann	**4XH52**	5
25	32V AC	GGC	Mersen	**5LAX5**	5
30	32V AC	AGC	Bussmann	**4XH53**	5
30	32V AC	GGC	Mersen	**5LAY0**	5
35	32V AC	AGC	Bussmann	**1BZ09**	5
40	32V AC	AGC	Bussmann	**1BZ10**	5
50	32V AC	AGC	Bussmann	**1BZ12**	5
Equiv. Series 361, 362, AGX, GGX, Size 1 in L x ¼ in dia					
0.5	250V AC	GGX	Mersen	**5LAZ1**	5
0.25	250V AC	AGX	Bussmann	**6F051**	5
0.5	250V AC	AGX	Bussmann	**6F053**	5
1/10	250V AC	AGX	Bussmann	**6F048**	5
⅛	250V AC	AGX	Bussmann	**6F049**	5
1	250V AC	GGX	Mersen	**5LAZ0**	5
1	250V AC	AGX	Bussmann	**6F055**	5
1.5	250V AC	AGX	Bussmann	**6F056**	5
2	250V AC	GGX	Mersen	**5LAZ2**	5
2	250V AC	AGX	Bussmann	**6F057**	5
2.5	125V AC	AGX	Bussmann	**6F058**	5
3	125V AC	GGX	Mersen	**5LAZ3**	5
3	250V AC	AGX	Bussmann	**6F059**	5
4	250V AC	AGX	Bussmann	**6F060**	5
5	125V AC	GGX	Mersen	**5LAZ4**	5
5	250V AC	AGX	Bussmann	**6F061**	5
6	125V AC	AGX	Bussmann	**1DJ63**	5
10	250V AC	AGX	Bussmann	**1DJ53**	5
15	250V AC	AGX	Bussmann	**1DJ54**	5
20	250V AC	AGX	Bussmann	**1DJ56**	5
Equiv. Series AGU, BLN, GGU, Size 1½ in x 13/32 in					
2	250V AC	AGU	Bussmann	**1DJ21**	1
5	32V AC	AGU	Bussmann	**1DJ29**	1
10	32V AC	AGU	Bussmann	**1DJ19**	1
20	32V AC	AGU	Bussmann	**1DJ22**	1
25	32V AC	AGU	Bussmann	**1DJ23**	1
30	32V AC	AGU	Bussmann	**1DJ25**	1
50	32V AC	AGU	Bussmann	**1DJ30**	1
One-Piece Fast-Acting Glass Fuses with Knob					
Equiv. Series GLQ, Size 2¼ in L x ⅝ in dia					
1	300V AC	GLQ	Bussmann	**1CH97**	1
1.5	300V AC	GLQ	Bussmann	**1CH98**	1
3	300V AC	GLQ	Bussmann	**1CJ03**	1
5	300V AC	GLQ	Bussmann	**1CJ04**	1
10	300V AC	GLQ	Bussmann	**1CJ01**	1
Equiv. Series GLR, LGR, SLR, Size 1 29/32 in L x ¼ in dia					
0.5	300V AC	SLR	Mersen	**5LCC3**	5
1	300V AC	SLR	Mersen	**5LCC2**	5
1.5	300V AC	SLR	Mersen	**5LCC5**	5

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
1 6/10	300V AC	SLR	Mersen	**5LCC8**	5
2	300V AC	SLR	Mersen	**5LCC9**	5
3	300V AC	SLR	Mersen	**5LCD0**	5
4	300V AC	SLR	Mersen	**5LCD1**	5
5	300V AC	SLR	Mersen	**5LCD2**	5
6	300V AC	SLR	Mersen	**5LCD3**	5
7	300V AC	SLR	Mersen	**5LCD4**	5
8	300V AC	SLR	Mersen	**5LCD5**	5
10	300V AC	SLR	Mersen	**5LCC4**	5
12	300V AC	SLR	Mersen	**5LCC6**	5
15	300V AC	SLR	Mersen	**5LCC7**	5
Equiv. Series GLR, LGR, SLR, Size 2¼ in L x ⅝ in dia					
0.5	300V AC	GLR	Bussmann	**1CJ10**	1
1	300V AC	GLR	Bussmann	**1CJ06**	1
1.5	300V AC	GLR	Bussmann	**1CJ08**	1
1 6/10	300V AC	GLR	Bussmann	**1CJ09**	1
2	300V AC	GLR	Bussmann	**1CJ14**	1
3	300V AC	GLR	Bussmann	**1CJ16**	1
4	300V AC	GLR	Bussmann	**1CJ17**	1
5	300V AC	GLR	Bussmann	**1CJ18**	1
6	300V AC	GLR	Bussmann	**1CJ19**	1
7	300V AC	GLR	Bussmann	**1CJ20**	1
8	300V AC	GLR	Bussmann	**1CJ21**	1
10	300V AC	GLR	Bussmann	**1CJ11**	1
12	300V AC	GLR	Bussmann	**1CJ12**	1
15	300V AC	GLR	Bussmann	**1CJ13**	1
One-Piece Time-Delay Glass Fuses with Knob					
Equiv. Series GMF, LMF, SMF, Size 1 29/32 in L x ¼ in dia					
0.5	300V AC	SMF	Mersen	**5LCD7**	5
8/10	300V AC	SMF	Mersen	**5LCE6**	5
1	300V AC	SMF	Mersen	**5LCD6**	5
1 ¼	300V AC	SMF	Mersen	**5LCD9**	5
1 6/10	300V AC	SMF	Mersen	**5LCE0**	5
2	300V AC	SMF	Mersen	**5LCE1**	5
3	300V AC	SMF	Mersen	**5LCE2**	5
3 2/10	300V AC	SMF	Mersen	**5LCE3**	5
4	300V AC	SMF	Mersen	**5LCE4**	5
5	300V AC	SMF	Mersen	**5LCE5**	5
10	300V AC	SMF	Mersen	**5LCD8**	5
Equiv. Series GMF, LMF, SMF, Size 2¼ in L x ⅝ in dia					
0.5	300V AC	GMF	Bussmann	**1CK34**	1
3/10	300V AC	GMF	Bussmann	**1CK41**	1
6/10	300V AC	GMF	Bussmann	**1CK45**	1
8/10	300V AC	GMF	Bussmann	**1CK46**	1
1	300V AC	GMF	Bussmann	**1CK31**	1
1 ¼	300V AC	GMF	Bussmann	**1CK32**	1
1 6/10	300V AC	GMF	Bussmann	**1CK33**	1
2	300V AC	GMF	Bussmann	**1CK36**	1
2.5	300V AC	GMF	Bussmann	**1CK37**	1
2 8/10	300V AC	GMF	Bussmann	**1CK38**	1
3	300V AC	GMF	Bussmann	**1CK39**	1
3 2/10	300V AC	GMF	Bussmann	**1CK40**	1
4	300V AC	GMF	Bussmann	**1CK42**	1
5	300V AC	GMF	Bussmann	**1CK43**	1
6.25	300V AC	GMF	Bussmann	**1CK44**	1
10	300V AC	GMF	Bussmann	**1CK35**	1
Equiv. Series GMQ, Size 2¼ in L x ⅝ in dia					
0.5	300V AC	GMQ	Bussmann	**1CK50**	1
6/10	300V AC	GMQ	Bussmann	**1CK58**	1
1	300V AC	GMQ	Bussmann	**1CK47**	1
1 6/10	300V AC	GMQ	Bussmann	**1CK49**	1
3	300V AC	GMQ	Bussmann	**1CK53**	1
3 2/10	300V AC	GMQ	Bussmann	**1CK54**	1
5	300V AC	GMQ	Bussmann	**1CK56**	1
6.25	300V AC	GMQ	Bussmann	**1CK57**	1
Time-Delay Glass Fuses					
Equiv. Series 218, GDC, GDG, S506, Size 20mm L x 5mm dia					
1 ¼	250V AC	GDC	Bussmann	**1CD04**	5
1 6/10	250V AC	GDC	Bussmann	**1CD05**	5
1	250V AC	GDC	Bussmann	**1CD09**	5
1 ¼	250V AC	S506	Bussmann	**1XFF5**	5
1 6/10	250V AC	S506	Bussmann	**2AAL4**	5
1	250V AC	S506	Bussmann	**2AUH7**	5
2.5	250V AC	GDC	Bussmann	**1CD10**	5
2	250V AC	GDC	Bussmann	**1CD13**	5
2	250V AC	S506	Bussmann	**2ABY7**	5
2.5	250V AC	S506	Bussmann	**2AUH8**	5
3 15/100	250V AC	GDC	Bussmann	**1CD14**	5
3 15/100	250V AC	S506	Bussmann	**2ABY8**	5
4	250V AC	GDC	Bussmann	**1CD19**	5
4	250V AC	S506	Bussmann	**2ABZ4**	5
5	250V AC	GDC	Bussmann	**1CD22**	5
5	250V AC	S506	Bussmann	**2AUJ1**	5
6 3/10	250V AC	GDC	Bussmann	**1CD23**	5
6 3/10	250V AC	S506	Bussmann	**2AUJ2**	5
8	250V AC	S506	Bussmann	**2AAN1**	5
10	250V AC	S506	Bussmann	**2AAL6**	5
12 ½	250V AC	S506	Bussmann	**2AAL7**	5
32 m	250V AC	S506	Bussmann	**2ABZ1**	5
50 m	250V AC	S506	Bussmann	**1VNE1**	5
50 m	250V AC	GDC	Bussmann	**4TWP3**	5
100 m	250V AC	GDC	Bussmann	**1CD06**	5
100 m	250V AC	S506	Bussmann	**2AAL5**	5
125 m	250V AC	GDC	Bussmann	**1CD07**	5
125 m	250V AC	S506	Bussmann	**2AAL8**	5
160 m	250V AC	GDC	Bussmann	**1CD08**	5

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EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN — MERSEN

Glass Fuses

Amps	AC Volt Rating	Series	Brand	Item No.	Pkg. Qty.
160 m	250V AC	S506	Bussmann	**2AAL9**	5
200 m	250V AC	GDC	Bussmann	**1CD11**	5
200 m	250V AC	S506	Bussmann	**2AUH9**	5
250 m	250V AC	GDC	Bussmann	**1CD12**	5
250 m	250V AC	S506	Bussmann	**2ABY6**	5
315 m	250V AC	GDC	Bussmann	**1CD15**	5
315 m	250V AC	S506	Bussmann	**2ABY9**	5
400 m	250V AC	S506	Bussmann	**2ABZ2**	5
500 m	250V AC	GDC	Bussmann	**1CD20**	5
500 m	250V AC	S506	Bussmann	**2ABZ5**	5
630 m	250V AC	GDC	Bussmann	**1CD24**	5
630 m	250V AC	S506	Bussmann	**2AUJ3**	5
800 m	250V AC	GDC	Bussmann	**1CD26**	5
800 m	250V AC	S506	Bussmann	**2AUJ5**	5
Equiv. Series 239, GMC, GSC, Size 20mm L x 5mm dia					
1.5	250V AC	GMC	Bussmann	**1CJ47**	5
1 6/10	250V AC	GMC	Bussmann	**1CJ48**	5
1	250V AC	GMC	Bussmann	**1CJ52**	5
1 ¼	250V AC	GMC	Bussmann	**2ABN8**	5
2.5	250V AC	GMC	Bussmann	**1CJ53**	5
2	250V AC	GMC	Bussmann	**1CK02**	5
3 ½	125V AC	GMC	Bussmann	**1CK03**	5
3	250V AC	GMC	Bussmann	**1CK06**	5
3 15/100	250V AC	GMC	Bussmann	**4CX57**	5
4	125V AC	GMC	Bussmann	**1CK08**	5
5	125V AC	GMC	Bussmann	**1CK10**	5
6	125V AC	GMC	Bussmann	**1CK13**	5
6 3/10	125V AC	GMC	Bussmann	**2ABN9**	5
7	125V AC	GMC	Bussmann	**4CX59**	5
8	125V AC	GMC	Bussmann	**1CK16**	5
10	125V AC	GMC	Bussmann	**1CJ50**	5
63 m	250V AC	GMC	Bussmann	**2ABP2**	5
100 m	250V AC	GMC	Bussmann	**1CJ49**	5
125 m	250V AC	GMC	Bussmann	**1CJ51**	5
150 m	250V AC	GMC	Bussmann	**4CX56**	5
200 m	250V AC	GMC	Bussmann	**1CJ54**	5
250 m	250V AC	GMC	Bussmann	**1CK01**	5
300 m	250V AC	GMC	Bussmann	**1CK04**	5
315 m	250V AC	GMC	Bussmann	**1CK05**	5
400 m	250V AC	GMC	Bussmann	**4TWP4**	5
500 m	250V AC	GMC	Bussmann	**1CK09**	5
600 m	250V AC	GMC	Bussmann	**2ABP1**	5
750 m	250V AC	GMC	Bussmann	**1CK14**	5
800 m	250V AC	GMC	Bussmann	**1CK15**	5
Equiv. Series 239, GMD, GSC, Size 20mm L x 5mm dia					
1.5	250V AC	GMD	Bussmann	**1CK17**	5
1 6/10	250V AC	GMD	Bussmann	**1CK18**	5
1	250V AC	GMD	Bussmann	**1CK20**	5
1 ¼	250V AC	GMD	Bussmann	**2ABP4**	5
2.5	250V AC	GMD	Bussmann	**1CK21**	5
2	250V AC	GMD	Bussmann	**1CK24**	5
3	250V AC	GMD	Bussmann	**1CK26**	5
4	250V AC	GMD	Bussmann	**2ABP5**	5
125 m	250V AC	GMD	Bussmann	**1CK19**	5
250 m	250V AC	GMD	Bussmann	**1CK23**	5
300 m	250V AC	GMD	Bussmann	**1CK25**	5
315 m	250V AC	GMD	Bussmann	**4CX62**	5
400 m	250V AC	GMD	Bussmann	**4CX63**	5
500 m	250V AC	GMD	Bussmann	**1CK27**	5
630 m	250V AC	GMD	Bussmann	**2ABP7**	5
750 m	250V AC	GMD	Bussmann	**2ABP8**	5
800 m	250V AC	GMD	Bussmann	**2ABP9**	5
Equiv. Series 313, 315, GDL, GDV, MDL, MDQ, MDV, MDX, Size 1¼ in L x ¼ in dia					
0.5	250V AC	MDQ	Bussmann	**1CM66**	5
0.25	250V AC	MDQ	Bussmann	**1CM67**	5
0.25	250V AC	MDL	Bussmann	**4XH54**	5
0.5	250V AC	MDL	Bussmann	**4XH55**	5
0.5	250V AC	GDL	Mersen	**5LAT1**	5
0.25	250V AC	GDL	Mersen	**5LAT2**	5
1/100	250V AC	MDL	Bussmann	**1CM27**	5
1/32	250V AC	MDL	Bussmann	**1CM28**	5
1/16	250V AC	GDL	Mersen	**5LAT0**	5
1/16	250V AC	MDL	Bussmann	**6F020**	5
1/10	250V AC	GDL	Mersen	**5LAR9**	5
1/10	250V AC	MDL	Bussmann	**6F021**	5
⅛	250V AC	MDQ	Bussmann	**1CM68**	5
⅛	250V AC	GDL	Mersen	**5LAT3**	5
⅛	250V AC	MDL	Bussmann	**6F022**	5
15/100	250V AC	MDL	Bussmann	**1CM32**	5
2/10	250V AC	GDL	Mersen	**5LAU1**	5
2/10	250V AC	MDL	Bussmann	**6F023**	5
3/10	250V AC	GDL	Mersen	**5LAU6**	5
3/10	250V AC	MDL	Bussmann	**6F024**	5
⅜	250V AC	MDQ	Bussmann	**1CM86**	5
⅜	250V AC	GDL	Mersen	**5LAU8**	5
⅜	250V AC	MDL	Bussmann	**6F025**	5
4/10	250V AC	GDL	Mersen	**5LAV2**	5
4/10	250V AC	MDL	Bussmann	**6F026**	5
6/10	250V AC	GDL	Mersen	**5LAV5**	5
6/10	250V AC	MDL	Bussmann	**6F027**	5
7/10	250V AC	MDL	Bussmann	**1CM40**	5
¾	250V AC	MDL	Bussmann	**4XH56**	5
¾	250V AC	GDL	Mersen	**5LAU7**	5
8/10	250V AC	GDL	Mersen	**5LAV9**	5
8/10	250V AC	MDL	Bussmann	**6F028**	5
1 8/10	250V AC	MDL	Bussmann	**1CM26**	5
1	250V AC	MDQ	Bussmann	**1CM59**	5
1.5	250V AC	MDQ	Bussmann	**1CM60**	5
1	250V AC	MDL	Bussmann	**4XH57**	5
1.5	250V AC	MDL	Bussmann	**4XH58**	5
1	250V AC	GDL	Mersen	**5LAR8**	5
1.5	250V AC	GDL	Mersen	**5LAT5**	5
1 ¼	250V AC	GDL	Mersen	**5LAT6**	5
1 6/10	250V AC	GDL	Mersen	**5LAT9**	5
1 2/10	250V AC	MDL	Bussmann	**6F029**	5
1 ¼	250V AC	MDL	Bussmann	**6F030**	5
1 6/10	250V AC	MDL	Bussmann	**6F031**	5
2 ¼	250V AC	MDL	Bussmann	**1CM34**	5
2	250V AC	MDQ	Bussmann	**1CM74**	5
2.5	250V AC	MDQ	Bussmann	**1CM75**	5
2	250V AC	MDL	Bussmann	**4XH59**	5
2.5	250V AC	MDL	Bussmann	**4XH60**	5
2	250V AC	GDL	Mersen	**5LAU0**	5
2.5	250V AC	GDL	Mersen	**5LAU3**	5
2 8/10	250V AC	MDL	Bussmann	**6F032**	5
3 ½	250V AC	MDL	Bussmann	**1CM37**	5
3	250V AC	MDQ	Bussmann	**1CM80**	5
3 ½	250V AC	MDQ	Bussmann	**1CM81**	5
3 2/10	250V AC	MDQ	Bussmann	**1CM82**	5
3	250V AC	MDL	Bussmann	**4XH61**	5
3	250V AC	GDL	Mersen	**5LAU5**	5
3 2/10	250V AC	GDL	Mersen	**5LAV0**	5
3 2/10	250V AC	MDL	Bussmann	**6F033**	5
4	250V AC	MDQ	Bussmann	**1CM87**	5
4	250V AC	MDL	Bussmann	**4XH62**	5
4	250V AC	GDL	Mersen	**5LAV1**	5
5	250V AC	MDQ	Bussmann	**1CM89**	5
5	250V AC	MDL	Bussmann	**4XH63**	5
5	250V AC	GDL	Mersen	**5LAV3**	5
6	250V AC	MDQ	Bussmann	**1CM90**	5
6.25	250V AC	MDQ	Bussmann	**1CM91**	5
6	250V AC	GDL	Mersen	**5LAV4**	5
6.25	250V AC	GDL	Mersen	**5LAV6**	5
6	250V AC	MDL	Bussmann	**6F034**	5
6.25	250V AC	MDL	Bussmann	**6F035**	5
7 ½	250V AC	MDL	Bussmann	**1CM39**	5
7	250V AC	MDQ	Bussmann	**1CM93**	5
7	250V AC	MDL	Bussmann	**5C774**	5
7	250V AC	GDL	Mersen	**5LAV7**	5
8	250V AC	MDL	Bussmann	**4XH64**	5
8	250V AC	GDL	Mersen	**5LAV8**	5
9	32V AC	MDL	Bussmann	**1CM41**	5
9	32V AC	MDQ	Bussmann	**1CM97**	5
10	32V AC	MDL	Bussmann	**1CM29**	5
10	32V AC	MDQ	Bussmann	**1CM69**	5
10	125V AC	GDL	Mersen	**5LAT4**	5
12	32V AC	MDL	Bussmann	**1CM30**	5
12	32V AC	MDQ	Bussmann	**1CM70**	5
12	125V AC	GDL	Mersen	**5LAT7**	5
15	32V AC	MDL	Bussmann	**1CM31**	5
15	32V AC	MDQ	Bussmann	**1CM71**	5
15	125V AC	GDL	Mersen	**5LAT8**	5
20	32V AC	MDL	Bussmann	**1CM35**	5
20	32V AC	GDL	Mersen	**5LAU2**	5
25	32V AC	MDL	Bussmann	**1CM36**	5
25	32V AC	GDL	Mersen	**5LAU4**	5
30	32V AC	MDL	Bussmann	**1CM38**	5
30	32V AC	GDL	Mersen	**5LAU9**	5

5LAP0

EATON BUSSMANN SERIES — FERRAZ SHAWMUT IS NOW MERSEN — MERSEN

Ceramic Fuses

- AC Voltage Rating 250VAC

These fuses protect against overcurrent in high-current circuits found in AC or DC electronics, appliances, and electrical equipment. They have higher interrupting ratings and withstand higher temperatures than glass fuses. Ceramic fuses shows no outward signs when the fuse has blown, so they're typically tested with a multimeter or ohmmeter to check their function. **Fast-acting fuses** open within seconds of being exposed to overloads and short circuits. They are sensitive to changes in current flow and power surges. **Time-delay fuses** tolerate temporary inrush currents without opening to prevent nuisance-blowing, but they open when exposed to sustained loads and short circuits.

Amps	Series	Brand	Item No.	Pkg. Qty.
Fast-Acting Ceramic Fuses				
Equiv. Series 216, GDA, GSD, S501, Size 20mm L x 5mm dia				
1	GDA	Bussmann	**1CC39**	5
1 ¼	GDA	Bussmann	**1CC34**	5
1 6/10	GDA	Bussmann	**1CC35**	5
2	GDA	Bussmann	**1CC43**	5
2.5	GDA	Bussmann	**1CC40**	5
2	S501	Bussmann	**2AAK3**	5
2.5	S501	Bussmann	**1VXR7**	5
3 15/100	GDA	Bussmann	**1CC44**	5
3 15/100	S501	Bussmann	**2AAK4**	5
4	GDA	Bussmann	**1CC47**	5
4	S501	Bussmann	**2AAK5**	5
5	GDA	Bussmann	**1CC50**	5
5	S501	Bussmann	**2AAK8**	5
6 3/10	GDA	Bussmann	**1CC51**	5
6 3/10	S501	Bussmann	**2AAK9**	5
8	S501	Bussmann	**2ABX6**	5
10	S501	Bussmann	**1VXR3**	5
50 m	GDA	Bussmann	**4TWN6**	5
63 m	GDA	Bussmann	**1CC53**	5
100 m	GDA	Bussmann	**4TWN4**	5
160 m	GDA	Bussmann	**1CC38**	5
200 m	GDA	Bussmann	**1CC41**	5
200 m	S501	Bussmann	**2AAK1**	5
250 m	GDA	Bussmann	**4TWN5**	5
250 m	S501	Bussmann	**2AAK2**	5
400 m	GDA	Bussmann	**1CC46**	5
500 m	GDA	Bussmann	**1CC48**	5
500 m	S501	Bussmann	**2AAK6**	5
630 m	GDA	Bussmann	**1CC52**	5
800 m	GDA	Bussmann	**4TWN7**	5
Equiv. Series 314, ABC, GAB, Size 1¼ in L x ¼ in dia				
0.25	ABC	Bussmann	**1BX42**	5
0.5	ABC	Bussmann	**1BX41**	5
0.25	GAB	Mersen	**5LAP2**	5
0.5	GAB	Mersen	**5LAP1**	5
⅛	ABC	Bussmann	**1BX43**	5
¾	ABC	Bussmann	**6F037**	5
¾	GAB	Mersen	**5LAR1**	5
1	ABC	Bussmann	**6F038**	5
1.5	ABC	Bussmann	**1BX40**	5
1	GAB	Mersen	**5LAP0**	5
2	ABC	Bussmann	**6F039**	5
2.5	ABC	Bussmann	**6F040**	5
2	GAB	Mersen	**5LAP6**	5
2.5	GAB	Mersen	**5LAP8**	5
3	ABC	Bussmann	**6F041**	5
3	GAB	Mersen	**5LAR0**	5
4	ABC	Bussmann	**6F042**	5
4	GAB	Mersen	**5LAR3**	5
5	ABC	Bussmann	**6F043**	5
5	GAB	Mersen	**5LAR4**	5
6	ABC	Bussmann	**6F044**	5
6	GAB	Mersen	**5LAR5**	5
7	ABC	Bussmann	**6F045**	5
7	GAB	Mersen	**5LAR6**	5
8	ABC	Bussmann	**6F046**	5
8	GAB	Mersen	**5LAR7**	5
9	ABC	Bussmann	**1BX50**	5
10	ABC	Bussmann	**6F047**	5
10	GAB	Mersen	**5LAP3**	5
12	ABC	Bussmann	**1BX44**	5
12	GAB	Mersen	**5LAP4**	5
15	ABC	Bussmann	**1BX45**	5
15	GAB	Mersen	**5LAP5**	5
20	ABC	Bussmann	**1BX46**	5
20	GAB	Mersen	**5LAP7**	5
25	ABC	Bussmann	**1BX47**	5
25	GAB	Mersen	**5LAP9**	5
30	ABC	Bussmann	**1BX49**	5
30	GAB	Mersen	**5LAR2**	5
Equiv. Series 322, GBB, Size 1¼ in L x ¼ in dia				
12	GBB	Bussmann	**1CC12**	5
15	GBB	Bussmann	**1CC13**	5
25	GBB	Bussmann	**1CC16**	5
30	GBB	Bussmann	**1CC18**	5
Time-Delay Ceramic Fuses				
Equiv. Series 215, GSF, S505, Size 20mm L x 5mm dia				
1	S505	Bussmann	**2ABY1**	5
1 ¼	S505	Bussmann	**2ABX7**	5
1 6/10	S505	Bussmann	**2ABX8**	5
2	S505	Bussmann	**2ABY3**	5
2.5	S505	Bussmann	**2ABY2**	5
3 15/100	S505	Bussmann	**2ABY4**	5
4	S505	Bussmann	**2ABY5**	5
5	S505	Bussmann	**1TEH1**	5
6 3/10	S505	Bussmann	**1XFF2**	5
8	S505	Bussmann	**1XFF4**	5
10	S505	Bussmann	**2ABX9**	5
500 m	S505	Bussmann	**1TEG9**	5
Equiv. Series 326, GSA, MDA, Size 1¼ in L x ¼ in dia				
0.25	MDA	Bussmann	**1CL92**	5
0.5	MDA	Bussmann	**1CL90**	5
0.5	GSA	Mersen	**5LAZ6**	5
¾	MDA	Bussmann	**1CM08**	5
8/10	MDA	Bussmann	**1CM19**	5
1	MDA	Bussmann	**1CL85**	5
1 ¼	MDA	Bussmann	**1CL87**	5
1.5	MDA	Bussmann	**1CL86**	5
1	GSA	Mersen	**5LAZ5**	5
1 ¼	GSA	Mersen	**5LCA0**	5
1.5	GSA	Mersen	**5LAZ9**	5
2	MDA	Bussmann	**1CL98**	5
2.5	MDA	Bussmann	**1CL99**	5
2	GSA	Mersen	**5LCA3**	5
2.5	GSA	Mersen	**5LCA5**	5
3	MDA	Bussmann	**1CM05**	5
3	GSA	Mersen	**5LCA6**	5
4	MDA	Bussmann	**1CM11**	5
4	GSA	Mersen	**5LCA7**	5
5	MDA	Bussmann	**1CM13**	5
5	GSA	Mersen	**5LCA8**	5
6	MDA	Bussmann	**1CM14**	5
6.25	MDA	Bussmann	**1CM15**	5
6	GSA	Mersen	**5LCA9**	5
7	MDA	Bussmann	**1CM17**	5
7	GSA	Mersen	**5LCC0**	5
8	MDA	Bussmann	**1CM18**	5
8	GSA	Mersen	**5LCC1**	5
10	MDA	Bussmann	**1CL94**	5
10	GSA	Mersen	**5LAZ8**	5
12	MDA	Bussmann	**1CL95**	5
12	GSA	Mersen	**5LCA1**	5
15	MDA	Bussmann	**1CL96**	5
15	GSA	Mersen	**5LCA2**	5
20	MDA	Bussmann	**1CM03**	5
20	GSA	Mersen	**5LCA4**	5
25	MDA	Bussmann	**1CM04**	5
30	MDA	Bussmann	**1CM10**	5

EATON
BUSSMANN SERIES

Telecom Protection Fuses

These fuses open within seconds of being exposed to overloads and short circuits. They are highly sensitive to changes in current flow and don't tolerate temporary overload currents or power surges. Sometimes called alarm fuses, they trigger an LED or audio alarm when they've blown to aid fuse replacement.

Amps	AC Volt Rating	DC Volt Rating	Body Style	Color Code	Series	Item No.
Fast-Acting Telecom Fuses, Indicating						
Equivalent Series 481, GMS, GMT						
1 ⅓ A	125V AC	60V DC	Pin	White	GMT	**1CK62**
1 A	125V AC	60V DC	Pin	Gray	GMT	**1CK60**
2 A	125V AC	60V DC	Pin	Orange	GMT	**1CK67**
3 A	125V AC	60V DC	Pin	Blue	GMT	**1CK68**
5 A	125V AC	60V DC	Pin	Green	GMT	**1CK72**
7 ½ A	125V AC	60V DC	Pin	Black/White	GMT	**1CK74**
10 A	125V AC	60V DC	Pin	Red/White	GMT	**1CK65**
Equivalent Series TPA						
20 A	Not Rated	65V DC	Cylindrical	No Color Code	TPA	**4CX91**

1CK60

EATON
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Time-Delay Plug Fuses

- AC Voltage Rating 125VAC
- Screw-In Body Style

These are medium- to heavy-duty fuses for protecting residential or industrial electrical circuits with motors, relays, or solenoids. These slow-blow plug fuses tolerate temporary inrush currents without opening.

3W757

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Time-Delay Plug Fuses				
Equivalent Series GSL, SL				
15	Rejection	SL	**6F462**	4
20	Rejection	SL	**6F463**	4
30	Rejection	SL	**6F465**	4
Equivalent Series GT, T, T00				
3⁄10	Nonrejection	T	**1CZ64**	4
8⁄10	Nonrejection	T	**1CZ75**	4
1	Nonrejection	T	**1CZ46**	4
1 8⁄10	Nonrejection	T	**1CZ51**	4
2	Nonrejection	T	**1CZ57**	4
2 ½	Nonrejection	T	**1CZ58**	4
3	Nonrejection	T	**1CZ61**	4
3 2⁄10	Nonrejection	T	**1CZ63**	4
3 ½	Nonrejection	T	**1CZ62**	4
4	Nonrejection	T	**1CZ65**	4
4 ½	Nonrejection	T	**1CZ66**	4
5	Nonrejection	T	**1CZ68**	4
5 6⁄10	Nonrejection	T	**1CZ69**	4
6	Nonrejection	T	**1CZ70**	4
6 ¼	Nonrejection	T	**1CZ71**	4
7	Nonrejection	T	**1CZ73**	4
8	Nonrejection	T	**1CZ74**	4
9	Nonrejection	T	**1CZ76**	4
10	Nonrejection	T	**1CZ54**	4
12	Nonrejection	T	**1CZ55**	4
14	Nonrejection	T	**1CZ56**	4
15	Nonrejection	T	**3W757**	4
20	Nonrejection	T	**3W758**	4
25	Nonrejection	T	**3W759**	4
30	Nonrejection	T	**3W760**	4

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Equivalent Series GTL, TL, TLO				
20	Nonrejection	TL	**6F459**	4
25	Nonrejection	TL	**6F460**	4
30	Nonrejection	TL	**6F461**	4
Equivalent Series S, SLO, SOO				
1 6⁄10	Rejection	S	**1CZ07**	4
1 ¼	Rejection	S	**1CZ04**	4
2	Rejection	S	**1CZ15**	4
3 2⁄10	Rejection	S	**1CZ23**	4
3 ½	Rejection	S	**1CZ22**	4
4	Rejection	S	**1CZ26**	4
4 ½	Rejection	S	**1CZ27**	4
5	Rejection	S	**1CZ29**	4
5 6⁄10	Rejection	S	**1CZ30**	4
6 ¼	Rejection	S	**1CZ32**	4
7	Rejection	S	**1CZ34**	4
8	Rejection	S	**1CZ35**	4
10	Rejection	S	**1CZ11**	4
12	Rejection	S	**1CZ12**	4
14	Rejection	S	**1CZ13**	4
15	Rejection	S	**1CZ14**	4
20	Rejection	S	**1CZ19**	4
25	Rejection	S	**1CZ20**	4
30	Rejection	S	**1CZ25**	4
Equivalent Series TC				
25	Nonrejection	TC	**1DC02**	4

Fast Acting Plug Fuses

EATON
BUSSMANN SERIES

- AC Voltage Rating 125VAC
- Screw-In Body Style

These are Type W fuses for protecting lighting, heating, and other residential and industrial circuits without motors. They open within seconds of being exposed to overloads and short circuits. Also called fast-blow plug fuses, they are highly sensitive to changes in current flow and don't tolerate temporary overload currents or power surges.

1DC08

Amps	Fits Fuse Block Style	Series	Item No.	Pkg. Qty.
Fast Acting Plug Fuses				
Equivalent Series GW, W, WOO				
1A	Nonrejection	W	**1DC08**	4
2A	Nonrejection	W	**1DC10**	4
3A	Nonrejection	W	**6F466**	4
5A	Nonrejection	W	**1DC12**	4
6A	Nonrejection	W	**6F467**	4
8A	Nonrejection	W	**1DC13**	4
10A	Nonrejection	W	**6F468**	4

EATON
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Plug Fuse Holders

These carry screw-in plug fuses for overcurrent protection of motor circuits and supplemental protection of residential and industrial branch circuits. They have a threaded receptacle for the fuse and a lid that covers the fuse to protect against accidental contact with live clips. They're commonly used in equipment such as pumps, power tools, and HVAC blowers.

Cover Unit Configuration	No. of Fuse Holders	No. of On/Off Switches	No. of 125V Receptacles	Max. HP	Item No.
Plug Fuse Holders					
2¼ in Handy Box Type					
Integrated Receptacle	1	0	1	½ hp	**1DH48**
Integrated Switch	1	1	0	½ hp	**1DH49**
Plain	1	0	0	¾ hp	**1DD98**
2¾ in Switch Box Type					
Integrated Receptacle	1	0	1	½ hp	**1DK48**
4 in Square Box Type					
Integrated Switch	1	1	0	½ hp	**1DL58**
Plain	2	0	0	¾ hp	**1DN02**
Plain	1	0	0	¾ hp	**1DL56**

1DH48

Total # of Fuses Incl.	Fuse Kit Amp Range	Fuses Included	Tool Included	Item No.
Glass Fuse Kits				
Fuse Series Included ABC, AGC, GJV, GMA, GMC, MDA, MDL, MDV				
270	⅛ to 30 A	(5) MDL ⅛, ¼, ½, ¾, 1, 1½, 2, 3, 4, 5, 6; (5) MDA 8, 10, 15, 20, 30; (5) MDV ½, 1, 2, 3; (5) AGC ⅛, ¼, ½, ¾, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8; (5) ABC 10, 15, 20, 30; (5) GMA ¼, ½, 1, 2, 3, 4, 6; (5) GMC 1, 2, 3, 4, 6; (5) GJV ½, 1, 2, 3; (1) S-8202-2 Fuse Block; (1) HTB-26I Fuse Holder; (1) HTB-28M Fuse Holder; (2) 4121 Fuse Clips; (1) HHB Fuse Holder	None	**1EJ86**
Fuse Series Included ABC, AGC, GLH, GMA, MDL				
205	½ to 20 A	(5) AGC ½, 1½, 4, 6, 7, 8, 10; (10) AGC 1, 2, 3, 5; (5) ABC 10, 20; (15) ABC 15; (5) MDL ½, 1½, 4, 5, 6, 7, 8; (10) MDL 1, 2, 3; (15) GLH 7; (5) GMA ½, 1, 2, 3, 5	None	**1DW56**
Fuse Series Included ABC, AGC, GMA, GMC, MDA, MDL				
260	¼ to 20 A	(5) GMA ½, 1, 2, 3, 4, 5, 6, 10, 15; (5) GMC 2, 5, 10; (5) MDL ¼, ½, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8, 10, 15, 20; (5) MDA 5, 10, 12, 15, 20; (5) AGC ¼, ½, 1, 1½, 2, 2½, 3, 4, 5, 6, 7, 8, 10, 15, 20; (5) ABC 5, 10, 12, 15, 20	(1) FT-3 Fuse Puller; (1) 6 in Wire Strippers	**4YY88**

Total # of Fuses Incl.	Fuse Kit Amp Range	Fuses Included	Tool Included	Item No.
Midget & CC Class Fuse Kits				
Fuse Series Included FNQ, FNQ-R, KTK-R				
36	½ to 30 A	(2) FNQ-R ½, 1, 2, 3, 4, 5; (2) FNQ, 10, 15, 20; (2) KTK-R 1, 2, 3, 5, 6, 10, 15, 20, 30	(1) FP-2 Fuse Puller	**1EJ87**
Fuse Series Included FNQ-R, KTK-R, LP-CC				
45	½ to 30 A	(3) FNQ-R ½, 3, 5, 10; (3) LP-CC 5, 10, 15, 20, 30; (3) KTK-R 5, 10, 15, 20, 30	(1) 6 in Wire Strippers, (1) Fuse Tester/ Puller	**4YY90**
UL Class Fuse Kits				
Fuse Series Included FRN-R				
28	3 2/10 to 100 A	(2) FRN-R 3-2/10, 6¼, 10, 15, 25, 35, 40, 50, 100; (3) FRN-R 20, 60; (4) FRN-R 30; (2) 263-R Reducers	(2) No. 1 Clip Clamps; (2) No. 2 Clip Clamps; (1) Fuse Puller	**1FF19**
Fuse Series Included FRN-R, FRS-R				
39	10 to 100 A	(3) FRN-R 10, 15, 20, 25, 30, 60, 100; (3) FRS-R 10, 15, 20, 30, 60, 100; (1) 263-R Reducer; (1) 663-R Reducer	(1) FP-2 Fuse Puller; (1) 6 in Wire Strippers	**4YY91**
Fuse Series Included LPJ				
36	5 to 100 A	(3) LPJ-SP 3, 5, 6, 10, 15, 20, 25, 30, 40, 50, 60, 100	(1) 8⅝ in Lineman Pliers, (1) Fuse Puller	**4YY93**
Fuse Series Included LPN-RK, LPS-RK				
39	10 to 100 A	(3) LPN-RK-10SP, 15, 20, 25, 30, 60, 100; (3) LPS-RK-10SP, 15, 20, 30, 60, 100; (1) 263-R Reducer; (1) 663-R Reducer	(1) FP-2 Fuse Puller; (1) 8⅝ in Lineman Pliers	**4YY92**

4YY88

EATON
BUSSMANN SERIES

Fuse Assortment Kits

These kits include multiple fuses of different styles, series, or amperage ratings for use in new installations or as replacements for blown or faulty fuses. They help reduce downtime by providing a supply of commonly used fuses for maintaining overcurrent protection on electrical systems and equipment.

EATON
BUSSMANN SERIES

Finger-Safe Fuse Blocks

These are IP20-rated blocks that enclose fuses to protect against accidental contact with live wires, clips, and terminals. Indicating-style fuse blocks have a visual indicator to make it easier to identify blown fuses for replacement.

13M216

Amp Range	Voltage Rating	Connector Type	Visual Indication	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Finger-Safe Fuse Blocks for Midget Fuses							
Fuse UL Class Midget, Compatible Fuse Series A60Q, AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, FWC, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM							
0 to 30 A	600V AC/DC	Clamp/ Spade Lug	Nonindicating	CHM	**13M221**	**13M223**	**13M225**
0 to 30 A	600V AC/DC	Clamp/ Spade Lug	Indicating	CHM	**13M222**	**13M224**	**13M226**
0 to 30 A	600V AC/DC	Box Lug	Indicating	OPM-1038	—	—	**4CX73**
Finger-Safe Fuse Blocks for UL Class CC Fuses							
Fuse UL Class CC, Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC							
0 to 30 A	600V AC/300V DC	Clamp/ Spade Lug	Nonindicating	CHCC	—	**13M217**	**13M219**
0 to 30 A	600V AC/DC	Clamp/ Spade Lug	Nonindicating	CHCC	**49ZU26**	—	—
0 to 30 A	600V AC/300V DC	Clamp/ Spade Lug	Indicating	CHCC	**13M216**	**13M218**	**13M220**
0 to 30 A	600V AC/DC	Box Lug	Indicating	OPM-1038	—	—	**4CX75**
0 to 30 A	600V AC/DC	Box Lug	Indicating	OPM-1038	—	—	**4CX76**

Amp Range	Voltage Rating	Connector Type	Visual Indication	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Finger-Safe Fuse Blocks for UL Class J Fuses							
Fuse UL Class J, Compatible Fuse Series A4J, AJT, DFJ, HSJ, JKS, JLS, JTD, JTD-ID, LDFJ, LPJ, LPJ-I							
0 to 30 A	600V AC/DC	Box Lug	Indicating	CH	**49ZU14**	**49ZU16**	**49ZU18**
0 to 30 A	600V AC/DC	Box Lug	Nonindicating	JT	**5KK55**	—	—
0 to 30 A	600V AC/DC	Box Lug	Indicating	JT	**5KK57**	—	—
0 to 30 A	600V AC/DC	Box Lug	Nonindicating	CH	**49ZU13**	**49ZU15**	**49ZU17**
31 to 60 A	600V AC/DC	Box Lug	Indicating	CH	**49ZU20**	**49ZU22**	**49ZU24**
31 to 60 A	600V AC/DC	Box Lug	Nonindicating	JT	**5KK56**	—	—
31 to 60 A	600V AC/DC	Box Lug	Indicating	JT	**5KK58**	—	—
31 to 60 A	600V AC/DC	Box Lug	Nonindicating	CH	**49ZU19**	**49ZU21**	**49ZU23**
Fuse UL Class J, Compatible Fuse Series FCF, TCF							
0 to 30 A	600V AC/300V DC	Box Lug	Nonindicating	TCFH	**5CFK0**	—	—
31 to 60 A	600V AC/DC	Box Lug	Nonindicating	TCFH	**2AAP3**	—	—
61 to 100 A	600V AC/DC	Box Lug	Nonindicating	TCFH	**2AAP1**	—	—
Finger-Safe Fuse Blocks with Disconnect Switches							
Fuse UL Class CC, Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC							
0 to 30 A	600V AC/300V DC	Box Lug	Indicating	OPM-1038	—	—	**4CX78**
0 to 30 A	600V AC	Box Lug	Indicating	CCP	**14L599**	**14L601**	**14L602**
0 to 30 A	80V DC	Box Lug	Indicating	CCP	**14L606**	—	—
0 to 30 A	600V AC/300V DC	Box Lug	Indicating	OPM-1038	—	—	**4CX77**
Fuse UL Class CF, Compatible Fuse Series TCF							
61 to 100 A	600V AC	Box Lug	Indicating	CCP	—	—	**14L616**
Fuse UL Class J, Compatible Fuse Series TCF							
0 to 30 A	600V AC	Box Lug	Indicating	CCP	**14L608**	**14L609**	**14L610**
31 to 60 A	600V AC	Box Lug	Indicating	CCP	**14L611**	**14L612**	**14L613**
61 to 100 A	600V AC	Box Lug	Indicating	CCP	**14L614**	**14L615**	—
Fuse UL Class Midget, Compatible Fuse Series A60Q, AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, FWC, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM							
0 to 30 A	80V DC	Box Lug	Indicating	CCP	**14L607**	—	—
0 to 30 A	240V AC	Box Lug	Indicating	CCP	**14L603**	**14L604**	**14L605**

EATON
BUSSMANN SERIES

Fuse Blocks

Provide a single unit for holding one or more fuses. They have an open top for access to fuses, clips or studs for securing fuses within the block, and terminals for connecting to the circuit.

1CP54

Amp Range	Voltage Rating	Connector Type	Mounting Style	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Fuse Blocks for Class CC Fuses						
Compatible Fuse Series ATDR, ATMR, ATQR, CCMR, FNQ-R, KLDR, KLKR, KTK-R, LP-CC						
0 to 30 A	600V AC/300V DC	Pressure Plate	Bolt-Down; DIN Rail	**40LH16**	**40LH14**	**40LH08**
0 to 30 A	600V AC/DC	Box Lug	Bolt-Down; DIN Rail	**49ZT96**	**49ZT99**	—
0 to 30 A	600V AC/DC	Pressure Plate with Quick Connect	Bolt-Down; DIN Rail	**49ZT97**	**49ZU01**	**49ZU03**
0 to 30 A	600V AC/DC	Screw with Quick Connect	Bolt-Down; DIN Rail	**49ZT98**	**49ZU02**	**49ZU04**
0 to 30 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	—	—	**40LG68**
Fuse Blocks for Class G Fuses						
Compatible Fuse Series AG, SC, SLC						
0 to 15 A	600V AC/170V DC	Screw with Quick Connect	Bolt-Down	**1DP74**	**1DZ15**	**1EK92**
20 A	600V AC/170V DC	Screw with Quick Connect	Bolt-Down	**1DP77**	—	**1EK95**
25 to 30 A	480V AC/300V DC	Screw with Quick Connect	Bolt-Down	**1DP80**	**1DZ21**	**1EK98**
31 to 60 A	480V AC/300V DC	Box Lug with Retaining Clip	Bolt-Down	—	—	**1DP89**
Fuse Blocks for Class H & K Fuses						
Compatible Fuse Series NLN, NON, OT, REN, RF, RLN						
0 to 30 A	250V AC/125V DC	Box Lug	Bolt-Down; DIN Rail	**40LG59**	**40LH10**	**40LH20**
0 to 30 A	250V AC/125V DC	Screw with Quick Connect	Bolt-Down; DIN Rail	**40LG72**	—	—
0 to 30 A	250V AC/125V DC	Pressure Plate	Bolt-Down; DIN Rail	**40LH11**	**40LG76**	**40LH18**
0 to 30 A	250V AC/125V DC	Screw	Bolt-Down; DIN Rail	**40LH22**	**40LG67**	**40LH09**
31 to 60 A	250V AC/125V DC	Box Lug	Bolt-Down; DIN Rail	**40LG95**	**40LG84**	**40LH12**
61 to 100 A	250V AC	Box Lug	Bolt-Down	**39P334**	—	—
61 to 100 A	250V AC/125V DC	Box Lug	Bolt-Down	—	**39P335**	**39P336**
101 to 200 A	250V AC	Box Lug	Bolt-Down	**39P337**	**39P338**	**39P339**
201 to 400 A	250V AC	Box Lug	Bolt-Down	**39P340**	—	**39P342**
401 to 600 A	250V AC	Box Lug	Bolt-Down	—	—	**39P345**
Compatible Fuse Series NLS, NOS, OTS, RES, RFS, RLS						
0 to 30 A	600V AC	Pressure Plate	Bolt-Down; DIN Rail	**40LG75**	**40LH30**	**40LG96**
0 to 30 A	600V AC	Box Lug	Bolt-Down; DIN Rail	**40LH26**	**40LH17**	**40LG81**
0 to 30 A	600V AC	Screw	Bolt-Down; DIN Rail	**40LH28**	**49ZU58**	**40LG91**
31 to 60 A	600V AC	Box Lug	Bolt-Down; DIN Rail	**40LG62**	**40LG92**	**40LH36**
61 to 100 A	600V AC	Box Lug	Bolt-Down	**39P366**	**39P367**	**39P368**
101 to 200 A	600V AC	Box Lug	Bolt-Down	**39P369**	—	**39P371**
201 to 400 A	600V AC	Box Lug	Bolt-Down	**39P372**	—	**39P374**
401 to 600 A	600V AC	Box Lug	Bolt-Down	**39P375**	—	—

Amp Range	Voltage Rating	Connector Type	Mounting Style	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Fuse Blocks for Class J Fuses						
Compatible Fuse Series A4J, AJT, DFJ, HSJ, JKS, JLS, JTD, JTD-ID, LDFJ, LPJ, LPJ-I						
0 to 30 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**40LG78**	**40LG79**	—
0 to 30 A	600V AC/300V DC	Pressure Plate	Bolt-Down; DIN Rail	**40LH04**	**40LG99**	**40LH23**
0 to 30 A	600V AC/300V DC	Screw	Bolt-Down; DIN Rail	**40LH05**	**49ZU64**	**40LG64**
31 to 60 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**40LG90**	**40LG88**	**40LG97**
61 to 100 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P398**	**39P399**	**39P401**
101 to 200 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P402**	**39P403**	**39P404**
201 to 400 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P405**	**39P406**	**39P407**
401 to 600 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P408**	**39P409**	**39P410**
Fuse Blocks for Class RK1 & RK5 Fuses						
Compatible Fuse Series A2D-R, A2K-R, FLNR, FRN-R, KLNR, KTN-R, KWN-R, LLNRK, LPN-RK, TR-R						
0 to 30 A	250V AC/125V DC	Pressure Plate	Bolt-Down; DIN Rail	**40LG83**	**40LG69**	**40LG73**
0 to 30 A	250V AC/125V DC	Box Lug	Bolt-Down; DIN Rail	**40LH34**	**40LG74**	**40LH25**
0 to 30 A	250V AC	Screw	Bolt-Down; DIN Rail	**49ZV33**	**49ZV34**	**49ZV35**
31 to 60 A	250V AC/125V DC	Box Lug	Bolt-Down; DIN Rail	**40LH32**	**40LG94**	**40LH19**
61 to 100 A	250V AC/DC	Box Lug	Bolt-Down; DIN Rail	**39P346**	**39P347**	**39P348**
101 to 200 A	250V AC/DC	Box Lug	Bolt-Down; DIN Rail	**39P349**	**39P350**	**39P351**
201 to 400 A	250V AC/DC	Box Lug	Bolt-Down; DIN Rail	**39P352**	**39P353**	**39P354**
401 to 600 A	250V AC/DC	Box Lug	Bolt-Down; DIN Rail	**39P355**	**39P356**	**39P357**
Compatible Fuse Series A6D-R, A6K-R, FRS-R, KLSR, KTS-R, KWS-R, LLSRK, LPS-RK, TRS-R						
0 to 30 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**40LG61**	**40LG77**	**40LG60**
0 to 30 A	600V AC	Screw	Bolt-Down; DIN Rail	**49ZV36**	—	**49ZV37**
0 to 30 A	600V AC/300V DC	Pressure Plate	Bolt-Down; DIN Rail	**40LG71**	**40LH21**	**40LG82**
31 to 60 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**40LG89**	**40LH01**	**40LG87**
61 to 100 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P378**	**39P379**	**39P380**
101 to 200 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P381**	**39P382**	**39P383**
201 to 400 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P384**	**39P385**	**39P386**
401 to 600 A	600V AC/300V DC	Box Lug	Bolt-Down; DIN Rail	**39P387**	—	**39P389**
Fuse Blocks for Class T Fuses						
Compatible Fuse Series A3T, JJN, JLLN, TJN						
0 to 30 A	300V AC/DC	Box Lug	Bolt-Down	—	**2GWA5**	**2GWA6**
31 to 60 A	300V AC/DC	Box Lug	Bolt-Down	—	**1DT31**	—
31 to 60 A	300V AC/160V DC	Box Lug	Bolt-Down	—	—	**1DX10**
61 to 100 A	300V AC/DC	Box Lug	Bolt-Down	**2GWA9**	**2GWC1**	**49ZV38**
101 to 200 A	300V AC/DC	Box Lug	Bolt-Down	**2GWC4**	—	**2GWC5**
401 to 600 A	300V AC/DC	Box Lug	Bolt-Down	**1CP53**	—	—
Compatible Fuse Series A6T, JJS, JLLS, LPT						
0 to 30 A	600V AC/DC	Screw	Bolt-Down	**49ZV39**	**49ZV40**	**49ZV41**
0 to 30 A	600V AC/DC	Box Lug	Bolt-Down	**1CP54**	**2GWA4**	**1CP58**
31 to 60 A	600V AC/DC	Box Lug	Bolt-Down	**2GWA7**	**2GWA8**	**1DT33**
61 to 100 A	600V AC/DC	Box Lug	Bolt-Down	**2GWC2**	**2GWC3**	**1EM61**
101 to 200 A	600V AC/DC	Box Lug	Bolt-Down	**1EK69**	—	—
Fuse Blocks for Midget Fuses						
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM						
0 to 30 A	600V AC/300V DC	Screw with Quick Connect	Bolt-Down; DIN Rail	**40LG86**	—	**40LH13**
0 to 30 A	600V AC/DC	Screw with Quick Connect	Bolt-Down; DIN Rail	—	**49ZU09**	—
0 to 30 A	600V AC/DC	Box Lug	Bolt-Down; DIN Rail	**49ZU07**	**49ZU08**	**49ZU10**
0 to 30 A	600V AC/300V DC	Pressure Plate with Quick Connect	Bolt-Down; DIN Rail	**40LG58**	—	**40LH15**
Glass & Ceramic Fuse Blocks						
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB						
0 to 30 A	300V AC/DC	Screw	Bolt-Down	**1CZ43**	**1DK46**	**1DL55**
0 to 30 A	300V AC/DC	Quick Connect	Bolt-Down	**1CZ42**	—	—

EATON BUSSMANN SERIES

1CV50

In-Line Fuse Holders

These are wire-mounted holders that connect anywhere along a circuit to protect specific lines. They allow these lines to be isolated in the event of a fault so that the rest of the wiring system won't be affected.

No. of Poles	Amp Range	Voltage Rating	Connector Type	Fuse Block Design	Item No.
In-Line Fuse Holders for Class CC & Midget Fuses					
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM					
1	0 to 30 A	600V AC/DC	Crimp	Non-Breakaway	**1BW56**
1	0 to 30 A	600V AC/DC	Crimp/Setscrew	Breakaway with Boots	**1CV50**
1	0 to 30 A	600V AC/DC	Crimp	Breakaway with Boots	**6F453**
1	0 to 30 A	600V AC/DC	Crimp/Setscrew	Non-Breakaway	**49ZU52**
2	0 to 30 A	600V AC/DC	Crimp	Non-Breakaway	**49ZU55**
2	0 to 30 A	600V AC/DC	Crimp	Breakaway with Boots	**49ZU56**
In-Line Fuse Holders for Glass & Ceramic Fuses					
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB					
1	0 to 15 A	32V AC/DC	Wire Leads	Non-Breakaway	**1DL30**
1	0 to 20 A	250V AC/125V DC	Crimp	Non-Breakaway	**1DD10**
Compatible Fuse Series SFE-20					
1	0 to 20 A	32V AC	Wire Leads	Non-Breakaway	**1DL29**

EATON BUSSMANN SERIES

1CV80

Panel-Mount Fuse Holders

These fuse holders have a cylindrical body that houses fuses and fits into electrical control panels and enclosures.

Amp Range	Voltage Rating	Connector Type	Fuse Cap Style	Mounting Hole	Item No.
Panel-Mount Fuse Holders for Class CC & Midget Fuses					
Compatible Fuse Series AGU, ATM, ATQ, BAF, BLF, BLN, FLM, FLQ, FNM, FNQ, GGU, HC10S, KLK, KLKD, KLM, KTK, OTM, TRM					
0 to 15 A	600V AC	¼ in Quick Connect	Screw Knob	1 1⁄64 in dia	**49ZU62**
0 to 30 A	600V AC/DC	¼ in Quick Connect	Screw Knob	⅞ in x 13⁄16 in	**1DW14**
0 to 30 A	600V AC/DC	¼ in Quick Connect	Screw Knob	1 1⁄64 in dia	**6F455**
0 to 30 A	600V AC	¼ in Quick Connect	Screw Knob	1 1⁄64 in dia	**49ZU60**
Panel-Mount Fuse Holders for Glass & Ceramic Fuses					
Compatible Fuse Series 215, 216, 217, 218, 235, 239, GDA, GDB, GDC, GDG, GGM, GMA, GMC, GMD, GSB, GSC, GSD, GSF, S500-506					
0 to 16 A	250V AC/32V DC	3⁄16 in Quick Connect	Knob Style	½ in x 29⁄64 in dia	**6F456**
Compatible Fuse Series 311, 312, 313, 314, 315, 322, 326, 3AG, ABC, ACG, GAB, GBB, GDL, GDV, GGC, GSA, MDA, MDL, MDQ, MDV, MDX, MMB					
0 to 15 A	250V AC/125V DC	Solder	Bayonet Knob	⅝ in x 37⁄64 in	**1CV80**
0 to 15 A	250V AC/125V DC	¼ in Quick Connect	Bayonet Knob	½ in x 15⁄32 in dia	**1CV90**
0 to 20 A	250V AC/125V DC	¼ in Quick Connect	Bayonet Knob	½ in x 15⁄32 in dia	**1CV89**
0 to 20 A	250V AC/125V DC	3⁄16 in Quick Connect	Screw Knob	½ in x 29⁄64 in dia	**1DD27**
0 to 20 A	250V AC/125V DC	Right Angle ¼ in Quick Connect	Screw Knob	½ in x 29⁄64 in dia	**1DD33**
0 to 20 A	250V AC/125V DC	¼ in Quick Connect	Screw Knob	½ in x 15⁄32 in dia	**1DD47**
0 to 30 A	250V AC/125V DC	Solder	Bayonet Knob	½ in x 15⁄32 in dia	**6F457**
Panel-Mount Holders for Glass & Ceramic Fuses with Knob					
Compatible Fuse Series GLQ, GMQ					
0 to 1 6/10 A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW02**
0 to 3 ½ A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW05**
0 to 5 A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW06**
0 to 6 ¼ A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW07**
0 to 10 A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW04**
0 to ½ A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW03**
Compatible Fuse Series GLR, GMF, GRF, LGR, LMF, SLR, SMF					
0 to 12 A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**1CW08**
0 to 15 A	300V AC	Wire Leads	—	⅞ in x 47⁄64 in dia	**49ZU57**

Fuse Reducers

EATON BUSSMANN SERIES

6F448

Adapt lower-rated fuses to fit higher-rated fuse blocks, fuse holders, and fused disconnect switches. They're used on fuses of the same class and voltage when switching from higher amperage to lower amperage ratings. These reducers maintain a strong electrical contact to help ensure proper fuse operation. UL Listed and CSA Certified.

Amp Range	Max. Amps	Max. Voltage	Fits Fuse Block Style	Item No.
Fuse Reducers				
For Fuse Class H, K				
0 to 30 A	60 A	250V AC	Nonrejection	**6F448**
0 to 30 A	60 A	600V AC	Nonrejection	**6F451**
31 to 60 A	100 A	250V AC	Nonrejection	**6F450**
31 to 60 A	100 A	600V AC	Nonrejection	**6F452**
For Fuse Class RK1, RK5				
0 to 30 A	100 A	600V AC	Rejection	**1EN80**
0 to 30 A	60 A	250V AC	Rejection	**1DH24**
0 to 30 A	60 A	600V AC	Rejection	**1DX81**
31 to 60 A	100 A	600V AC	Rejection	**1EP28**
31 to 60 A	200 A	600V AC	Rejection	**1EV68**

2G462

EATON BUSSMANN SERIES

Fuse Block Covers

These covers fit over fuses in open fuse blocks to protect against accidental contact with live wires, clips, and terminals.

Amp Range	For Use With	Nonindicating H	Nonindicating Item No.	Indicating H	Indicating Item No.
CVR Fuse Block Covers					
For Fuse Class CC and Midget					
0 to 30 A	Bussmann Blocks with Quick-Connect Terminals	3.7 in	**40LG80**	3.7 in	**40LH31**
0 to 30 A	Bussmann Blocks without Quick-Connect Terminals	3.7 in	**40LH02**	3.7 in	**40LG85**
For Fuse Class H, RK5 and RK1					
0 to 30 A	Most Brands of Fuse Blocks	3.9 in	**40LG66**	3.9 in	**40LH06**
0 to 30 A	Most Brands of Fuse Blocks	7.2 in	**40LG63**	7.2 in	**40LH29**
31 to 60 A	Most Brands of Fuse Blocks	4.2 in	**40LH03**	4.2 in	**40LG65**
31 to 60 A	Most Brands of Fuse Blocks	7.2 in	**40LH35**	7.2 in	**40LH27**
61 to 100 A	HM60100-1CR, HM60100-2CR, HM60100-3CR, RM60100-1CR, RM60100-2CR, RM60100-3CR	2.9 in	**39P390**	2.9 in	**39P394**
61 to 100 A	HM25100-1CR, HM25100-2CR, HM25100-3CR, RM25100-1CR, RM25100-2CR, RM25100-3CR	2.8 in	**39P358**	2.8 in	**39P362**
101 to 200 A	HM25200-1CR, HM25200-2CR, HM25200-3CR, RM25200-1CR, RM25200-2CR, RM25200-3CR	3.7 in	**39P359**	3.7 in	**39P363**
101 to 200 A	HM60200-1CR, HM60200-2CR, HM60200-3CR, RM60200-1CR, RM60200-2CR, RM60200-3CR	3.6 in	**39P391**	3.6 in	**39P395**
201 to 400 A	HM60400-1CR, HM60400-2CR, HM60400-3CR, RM60400-1CR, RM60400-2CR, RM60400-3CR	4.6 in	**39P392**	4.6 in	**39P396**
201 to 400 A	HM25400-1CR, HM25400-2CR, HM25400-3CR, RM25400-1CR, RM25400-2CR, RM25400-3CR	4.6 in	**39P360**	4.6 in	**39P364**
401 to 600 A	HM60600-1CR, HM60600-2CR, HM60600-3CR, RM60600-1CR, RM60600-2CR, RM60600-3CR	6.0 in	**39P393**	6.0 in	**39P397**
For Fuse Class J					
0 to 30 A	Most Brands of Fuse Blocks	4.3 in	**40LG70**	4.3 in	**40LH07**
31 to 60 A	Most Brands of Fuse Blocks	7.2 in	**40LH33**	7.2 in	**40LG98**
61 to 100 A	JM60100-1CR, JM60100-2CR, JM60100-3CR	2.9 in	**39P411**	2.9 in	**39P415**
101 to 200 A	JM60200-1CR, JM60200-2CR, JM60200-3CR	3.6 in	**39P412**	3.6 in	**39P416**
201 to 400 A	JM60400-1CR, JM60400-2CR, JM60400-3CR	4.6 in	**39P413**	4.6 in	**39P417**
401 to 600 A	JM60600-1CR, JM60600-2CR, JM60600-3CR	6.0 in	**39P414**	6.0 in	**39P418**
SAMI Fuse Block Covers					
For Fuse Class CC and Midget					
0 to 100 A	Most Brands of Fuse Blocks	3.82 in	**2G464**	3.82 in	**2G462**
For Fuse Class H, J (600V AC), K5, RK5 and RK1 (250V AC)					
0 to 60 A	Most Brands of Fuse Blocks	—	—	5.02 in	**2F986**
For Fuse Class H, K5, RK5 and RK1					
0 to 30 A	Most Brands of Fuse Blocks	2.07 in	**2G444**	7.03 in	**2G442**
31 to 60 A	Most Brands of Fuse Blocks	2.18 in	**2G456**	8.2	**2G454**
For Fuse Class H, K5, RK5 and RK1 (250V AC), T (600V AC)					
0 to 30 A	Most Brands of Fuse Blocks	3.82 in	**2G472**	3.82 in	**2G470**

6F446

1HCH1

EATON BUSSMANN SERIES — IDEAL®

Fuse Pullers

Safely remove fuses from blocks and holders without breaking them.

Overall Length	Color	For Use With	Material	Brand	Item No.
Small Fuse Pullers					
2 in	Yellow	Glass Tube and ATC Fuses	Nylon	Bussmann	**5KK54**
5 in	Blue	Fuse Types 0-30, 600V or 0-60, 250V, 13⁄32 in to 13⁄16 in dia Fuses	Nylon	Bussmann	**6F446**
7 ¼ in	White	For 0 to 60A T-Tron Fuses	Nylon	Bussmann	**1BZ81**
5 in	Yellow	For 250V, 9⁄32 in to ½ in dia Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**39N412**
5 in	Yellow	For 0 to 30A/250V, ¼ in to ½ in dia Fuses	Nylon	IDEAL	**39N415**
Medium Fuse Pullers					
7 ¼ in	Gray	1 in to 1¾ in dia 0 to 100/0 to 60 Amperes Fuses	Nylon	Bussmann	**6F447**
7 ½ in	Yellow	½ in to 1 in dia Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**3KUU6**
Medium Fuse Pullers w/Test Lights					
7 ¼ in	Yellow	Pulls 9⁄16 in to 1 in dia Fuses , 100A/250V and 60A/600V Fuses	Nylon	IDEAL	**39N414**
Large Fuse Pullers					
7 ¼ in	Gray	1¾ in to 2½ in dia Fuses	Nylon	Bussmann	**1BZ80**
11 ¾ in	Yellow	¾ in to 2½ in dia Fuses	High-Dielectric, Glass-Filled Polypropylene	IDEAL	**1HCH1**
7 ¼ in	Yellow	9⁄16 in to 1 in dia Fuses	Nylon	IDEAL	**3KUU8**

30YA79

SIEMENS · EATON BUSSMANN SERIES · Schneider Electric

UL 489 Circuit Protectors

- B curve = magnetic trip between 3.2 and 4.8 times rated current (computer, electronic, and generator applications)
- C curve = magnetic trip between 7 and 10 times rated current (general purpose applications)
- D curve = magnetic trip between 10 and 14 times rated current (motors, transformers, and similar applications)

These miniature circuit breakers are UL489 listed for use as branch circuit protection or as supplementary electrical protection. Also known as branch circuit overcurrent devices, they open the circuit upon overload or in the event of a short circuit to protect equipment from damage. Mount these circuit breakers on standard 35mm DIN rail in control panels, motor control centers, panelboards, and other low-voltage electrical applications.

Amps	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
B-Curve					
6 A	Siemens	5SJ4	30XZ56	—	—
10 A	Siemens	5SJ4	30XZ60	—	—
13 A	Siemens	5SJ4	30XZ65	—	—
15 A	Siemens	5SJ4	30XZ74	—	—
16 A	Siemens	5SJ4	30XZ72	—	—
20 A	Siemens	5SJ4	30XZ77	—	—
25 A	Siemens	5SJ4	30XZ80	—	—
30 A	Siemens	5SJ4	30XZ83	—	—
32 A	Siemens	5SJ4	30XZ86	—	—
35 A	Siemens	5SJ4	30XZ88	—	—
40 A	Siemens	5SJ4	30XZ91	—	—
45 A	Siemens	5SJ4	30XZ94	—	—
50 A	Siemens	5SJ4	30XZ97	—	—
60 A	Siemens	5SJ4	30YA01	—	—
63 A	Siemens	5SJ4	30YA04	—	—

Amps	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
C-Curve					
0.03 A	Siemens	5SJ4	—	30YC78	—
0.3 A	Siemens	5SJ4	30YC47	—	30YC27
0.3 A	Siemens	5SJ4	—	—	30YD16
0.5 A	Siemens	5SJ4	30XZ54	30YA79	30YD54
0.5 A	Siemens	5SJ4	30YC41	30YC74	30YD10
0.5 A	Schneider Electric	C60BP	482M29	—	—
1 A	Eaton	FAZ-NA	19YF81	19YG18	19YG54
1 A	Siemens	5SJ4	30YD52	30YA75	30YA93
1 A	Siemens	5SJ4	30YC37	30YC70	—
1 A	Schneider Electric	C60BP	482M12	482M30	482M47
1.6 A	Siemens	5SJ4	30YC48	30YC79	30YD17
1.6 A	Siemens	5SJ4	30XZ70	30YA82	30YC28
2 A	Siemens	5SJ4	30XZ48	30YC71	30YA94
2 A	Eaton	FAZ-NA	19YF82	19YG19	19YG55
2 A	Siemens	5SJ4	30YC38	—	—
2 A	Schneider Electric	C60BP	482M13	482M31	482M48
3 A	Eaton	FAZ-NA	19YF83	19YG20	19YG56
3 A	Siemens	5SJ4	30XZ51	30YA77	30YA95
3 A	Siemens	5SJ4	30YC39	30YC72	—
3 A	Schneider Electric	C60BP	482M14	482M32	482M49
4 A	Eaton	FAZ-NA	19YF84	19YG21	19YG57
4 A	Siemens	5SJ4	30XZ45	30YC73	30YA96
4 A	Siemens	5SJ4	30YC40	—	—
4 A	Schneider Electric	C60BP	482M15	482M33	482M50
5 A	Eaton	FAZ-NA	19YF85	19YG22	19YG58
5 A	Schneider Electric	C60BP	482M16	482M34	482M51
5 A	Siemens	5SJ4	30YC45	—	—
5 A	Siemens	5SJ4	30XZ63	30YC76	30YA99
6 A	Eaton	FAZ-NA	19YF86	19YG23	19YG59
6 A	Siemens	5SJ4	30XZ47	—	30YA97
6 A	Siemens	5SJ4	30YC42	—	—
6 A	Schneider Electric	C60BP	482M17	482M35	482M52
7 A	Eaton	FAZ-NA	19YF87	19YG24	19YG60
8 A	Eaton	FAZ-NA	19YF88	19YG25	19YG61
8 A	Siemens	5SJ4	30YC43	—	—
8 A	Siemens	5SJ4	30XZ58	—	30YC26
8 A	Schneider Electric	C60BP	482M18	482M36	482M53
10 A	Eaton	FAZ-NA	19YF89	19YG26	19YG62
10 A	Siemens	5SJ4	30XZ61	30YC75	30YA98
10 A	Siemens	5SJ4	30YC44	—	—
10 A	Schneider Electric	C60BP	482M19	482M37	482M54
13 A	Eaton	FAZ-NA	19YF90	19YG27	19YG63
13 A	Siemens	5SJ4	30XZ66	30YC77	30YA26
13 A	Siemens	5SJ4	30YC46	—	—
15 A	Siemens	5SJ4	30XZ75	30YC81	30YA28
15 A	Eaton	FAZ-NA	19YF91	19YG28	19YG64
15 A	Siemens	5SJ4	30YC50	—	30YD19
15 A	Schneider Electric	C60BP	482M20	482M38	482M55
16 A	Siemens	5SJ4	30YC49	—	—
16 A	Siemens	5SJ4	30XZ46	30YA16	30YA27
16 A	Siemens	5SJ4	30YA08	30YC80	—
16 A	Eaton	FAZ-NA	19YF92	19YG29	19YG65
20 A	Siemens	5SJ4	30YC51	—	30YD20
20 A	Eaton	FAZ-NA	19YF93	19YG30	19YG66
20 A	Siemens	5SJ4	30XZ78	30YC82	30YA29
20 A	Schneider Electric	C60BP	482M21	482M39	482M56
25 A	Siemens	5SJ4	30YC52	—	—
25 A	Siemens	5SJ4	30YD43	—	30YA30
25 A	Eaton	FAZ-NA	19YF94	19YG31	19YG67
25 A	Schneider Electric	C60BP	482M22	482M40	482M57
30 A	Siemens	5SJ4	30YC53	—	30YD22
30 A	Siemens	5SJ4	30XZ84	30YC83	30YA31
30 A	Eaton	FAZ-NA	19YF95	19YG32	19YG68
30 A	Schneider Electric	C60BP	482M23	482M41	482M58
32 A	Eaton	FAZ-NA	19YF96	19YG33	19YG69
32 A	Siemens	5SJ4	30YD44	30YA19	30YA32
32 A	Siemens	5SJ4	30YC54	30YC84	30YD23
35 A	Siemens	5SJ4	30XZ89	30YC85	30YA45
35 A	Siemens	5SJ4	30YC55	—	30YD24
35 A	Eaton	FAZ-NA	19YF97	19YG34	19YG70
35 A	Schneider Electric	C60BP	482M24	482M42	482M59
40 A	Siemens	5SJ4	30YA10	30YC86	30YA33
40 A	Siemens	5SJ4	30YC56	—	30YD25
40 A	Eaton	FAZ-NA	19YF98	19YG35	19YG71
40 A	Schneider Electric	C60BP	482M25	482M43	482M60
45 A	Siemens	5SJ4	30XZ95	—	30YA44
45 A	Schneider Electric	C60BP	482M26	482M44	482M61
50 A	Schneider Electric	C60BP	482M27	482M45	482M62
50 A	Siemens	5SJ4	30XZ98	—	30YC01
60 A	Siemens	5SJ4	30YA02	30YC20	30YC29
63 A	Siemens	5SJ4	30YA05	—	30YC02
63 A	Schneider Electric	C60BP	482M28	482M46	482M63
D-Curve					
0.3 A	Siemens	5SJ4	30XZ69	—	—
0.3 A	Siemens	5SJ4	30YC64	—	—
0.5 A	Siemens	5SJ4	30XZ55	30YA87	30YC31
0.5 A	Siemens	5SJ4	30YC59	30YC91	30YD30
0.5 A	Schneider Electric	C60BP	482M81	—	—
1 A	Siemens	5SJ4	30XZ49	—	30YD26
1 A	Eaton	FAZ-NA	19YF99	19YG36	19YG72
1 A	Siemens	5SJ4	30YD45	—	—
1 A	Schneider Electric	C60BP	482M64	482M82	482M99
1.6 A	Siemens	5SJ4	30XZ71	30YA91	30YD37
1.6 A	Siemens	5SJ4	30YC65	—	—
2 A	Schneider Electric	C60BP	482M65	482M83	482N01
2 A	Siemens	5SJ4	30XZ50	—	30YD27
2 A	Eaton	FAZ-NA	19YG01	19YG37	19YG73
2 A	Siemens	5SJ4	30YD46	—	—
3 A	Siemens	5SJ4	30XZ52	—	30YD28
3 A	Schneider Electric	C60BP	482M66	482M84	482N02
3 A	Eaton	FAZ-NA	19YG02	19YG38	19YG74
3 A	Siemens	5SJ4	30YC57	—	—
4 A	Siemens	5SJ4	30XZ53	—	30YD29
4 A	Schneider Electric	C60BP	482M67	482M85	482N03
4 A	Eaton	FAZ-NA	19YG03	19YG39	19YG75
4 A	Siemens	5SJ4	30YC58	—	—
5 A	Siemens	5SJ4	30XZ64	—	30YD34
5 A	Eaton	FAZ-NA	19YG04	19YG40	19YG76
5 A	Schneider Electric	C60BP	482M68	482M86	482N04
5 A	Siemens	5SJ4	30YC62	—	—
6 A	Siemens	5SJ4	30XZ57	—	30YD31
6 A	Eaton	FAZ-NA	19YG05	19YG41	19YG77
6 A	Schneider Electric	C60BP	482M69	482M87	482N05
7 A	Eaton	FAZ-NA	19YG06	19YG42	19YG78
8 A	Eaton	FAZ-NA	19YG07	19YG43	19YG79
8 A	Siemens	5SJ4	30XZ59	—	30YD32
8 A	Schneider Electric	C60BP	482M70	482M88	482N06
10 A	Schneider Electric	C60BP	482M71	482M89	482N07
10 A	Eaton	FAZ-NA	19YG08	19YG44	19YG80
10 A	Siemens	5SJ4	30XZ62	—	30YD33
10 A	Siemens	5SJ4	30YC61	—	—
13 A	Siemens	5SJ4	30XZ67	—	30YD35
13 A	Eaton	FAZ-NA	19YG09	19YG45	19YG81
13 A	Siemens	5SJ4	30YC63	—	—
15 A	Siemens	5SJ4	30XZ76	—	30YD38
15 A	Eaton	FAZ-NA	19YG10	19YG46	19YG82
15 A	Schneider Electric	C60BP	482M72	482M90	482N08
15 A	Siemens	5SJ4	30YC66	—	—
16 A	Eaton	FAZ-NA	19YG11	19YG47	19YG83
16 A	Siemens	5SJ4	30XZ73	—	30YD51
20 A	Siemens	5SJ4	30XZ79	—	30YD39
20 A	Eaton	FAZ-NA	19YG12	19YG48	19YG84
20 A	Siemens	5SJ4	30YC67	—	—
20 A	Schneider Electric	C60BP	482M73	482M91	482N09
25 A	Eaton	FAZ-NA	19YG13	19YG49	19YG85
25 A	Schneider Electric	C60BP	482M74	482M92	482N10
25 A	Siemens	5SJ4	30XZ82	—	30YD40
25 A	Siemens	5SJ4	30YD48	—	—
30 A	Eaton	FAZ-NA	19YG14	19YG50	19YG86
30 A	Siemens	5SJ4	30XZ85	—	30YD41
30 A	Schneider Electric	C60BP	482M75	482M93	482N11
30 A	Siemens	5SJ4	30YC68	—	—
32 A	Eaton	FAZ-NA	19YG15	19YG51	19YG87
32 A	Siemens	5SJ4	30XZ87	—	30YD42
35 A	Siemens	5SJ4	30XZ90	—	—
35 A	Schneider Electric	C60BP	482M76	482M94	482N12
35 A	Eaton	FAZ-NA	19YG16	19YG52	19YG88
40 A	Siemens	5SJ4	30XZ93	—	—
40 A	Schneider Electric	C60BP	482M77	482M95	482N13
40 A	Eaton	FAZ-NA	19YG17	19YG53	19YG89
45 A	Schneider Electric	C60BP	482M78	482M96	482N14
45 A	Siemens	5SJ4	30XZ96	—	—
50 A	Schneider Electric	C60BP	482M79	482M97	482N15
50 A	Siemens	5SJ4	30XZ99	—	—
60 A	Siemens	5SJ4	30YA03	30YC24	30YC35
63 A	Schneider Electric	C60BP	482M80	482M98	482N16
63 A	Siemens	5SJ4	30YA06	30YC25	—

Amps	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.	4-POLE Item No.
A-Curve						
0.5 A	Siemens	5SY4	30XT80	—	—	—
1 A	Siemens	5SY4	30XU27	30XU74	30XV23	30XV74
1.6 A	Siemens	5SY4	30XT82	30XU94	30XV45	30XW06
2 A	Siemens	5SY4	30XU43	30XU77	30XV25	30XV77
3 A	Siemens	5SY4	30XU52	30XU79	30XV28	30XV80
4 A	Siemens	5SY4	30XU60	30XU81	30XV29	30XV83
6 A	Siemens	5SY4	30XU73	30XU85	30XV32	30XV88
8 A	Siemens	5SY4	30XZ35	30XU87	30XV34	30XV92
10 A	Siemens	5SY4	30XT85	30XU26	30XV36	30XV95
13 A	Siemens	5SY4	30XU05	30XU89	30XV39	30XV99
16 A	Siemens	5SY4	30XU16	30XU97	30XV47	30XW09
20 A	Siemens	5SY4	30XU30	30XV01	30XV52	30XW13
25 A	Siemens	5SY4	30XU39	30XV03	30XU36	30XW17
32 A	Siemens	5SY4	30XU47	30XV07	30XV58	30XW21
40 A	Siemens	5SY4	30XU55	30XV11	30XV61	30XW25
50 A	Siemens	5SY4	30XU63	30XV15	30XV65	30XW29
63 A	Siemens	5SY4	30XU69	30XV19	30XV70	30XW33
B-Curve						
0.5 A	Schneider Electric	C60SP	482K44	—	—	—
1 A	Schneider Electric	C60SP	482K27	482K45	—	—
1 A	Eaton	FAZ	19YE45	19YF10	—	—
2 A	Siemens	5SY6	30XZ11	—	—	—
2 A	Eaton	FAZ	19YE46	19YF11	—	—
2 A	Schneider Electric	C60SP	482K28	482K46	482K62	482K75
3 A	Schneider Electric	C60SP	482K29	482K47	—	—
3 A	Eaton	FAZ	19YE47	19YF12	—	—
4 A	Siemens	5SY6	30XX91	—	—	—
4 A	Eaton	FAZ	19YE48	19YF13	—	—
4 A	Schneider Electric	C60SP	482K30	482K48	—	—
5 A	Eaton	FAZ	19YE49	19YF14	—	—
5 A	Schneider Electric	C60SP	482K31	482K49	—	—
6 A	Siemens	5SY6	30XX78	—	—	—
6 A	Siemens	5SY4	30XX81	30XU86	—	30XV89
6 A	Eaton	FAZ	19YE50	19YF15	—	—
6 A	Schneider Electric	C60SP	482K32	482K50	482K63	482K76
8 A	Eaton	FAZ	19YE51	19YF16	—	—
8 A	Schneider Electric	C60SP	482K33	482K51	482K64	482K77
10 A	Siemens	5SY6	30XX94	—	—	—
10 A	Siemens	5SY4	30XU01	30XU88	—	30XV96
10 A	Schneider Electric	C60SP	482K34	482K52	482K65	482K78
10 A	Eaton	FAZ	19YE52	19YF17	—	—
13 A	Eaton	FAZ	19YE53	19YF18	—	—
13 A	Siemens	5SY6	30XZ12	—	—	—
13 A	Siemens	5SY4	30XU09	30XU90	—	30XW01
13 A	Schneider Electric	C60SP	482K35	482K53	482K66	482K79
15 A	Eaton	FAZ	19YE54	19YF19	—	—
16 A	Siemens	5SY6	30XX92	—	—	—
16 A	Siemens	5SY4	30XU17	30XU98	—	30XW10
16 A	Eaton	FAZ	19YE55	19YF20	—	—
16 A	Schneider Electric	C60SP	482K36	482K54	482K67	482K80
20 A	Eaton	FAZ	19YE56	19YF21	—	—
20 A	Siemens	5SY6	30XY09	—	—	—
20 A	Siemens	5SY4	30XU32	30XV02	—	30XW14
20 A	Schneider Electric	C60SP	482K37	482K55	482K68	482K81
25 A	Siemens	5SY4	30XU40	30XV04	—	30XW18
25 A	Eaton	FAZ	19YE57	19YF22	—	—
25 A	Siemens	5SY6	30XZ15	—	—	—
25 A	Schneider Electric	C60SP	482K38	482K56	482K69	482K82
32 A	Eaton	FAZ	19YE58	19YF23	—	—
32 A	Siemens	5SY6	30XZ16	—	—	—
32 A	Siemens	5SY4	30XU48	30XV08	—	30XW22
32 A	Schneider Electric	C60SP	482K39	482K57	482K70	482K83
40 A	Siemens	5SY4	30XU56	30XV12	—	30XW26
40 A	Siemens	5SY6	30XY10	—	—	—
40 A	Eaton	FAZ	19YE59	—	—	—
40 A	Schneider Electric	C60SP	482K40	482K58	482K71	482K84
45 A	Schneider Electric	C60SP	482K41	482K59	482K72	482K85
50 A	Siemens	5SY6	30XZ17	—	—	—
50 A	Schneider Electric	C60SP	482K42	482K60	482K73	482K86
50 A	Siemens	5SY4	30XU64	30XV16	—	30XW30
63 A	Siemens	5SY6	30XZ18	—	—	—
63 A	Siemens	5SY4	30XU70	30XV20	—	30XW34
63 A	Schneider Electric	C60SP	482K43	482K61	482K74	482K87
63 A	Siemens	5SY6	30XY11	—	—	—
C-Curve						
0.3 A	Siemens	5SY4	30XT77	—	30XV43	30XW04
0.3 A	Siemens	5SY6	30XZ13	30XY20	—	—
0.5 A	Siemens	5SY4	30XT79	—	30XV31	30XV86
0.5 A	Siemens	5SY6	30XX83	—	—	—
0.5 A	Schneider Electric	C60SP	482L06	—	—	—
1 A	Eaton	FAZ	19YE60	19YE92	19YF41	—
1 A	Siemens	5SY4	30XU28	—	30XV24	30XV75
1 A	Siemens	5SY6	30XX54	30XX66	—	—
1 A	Schneider Electric	C60SP	482K88	482L07	—	—
1.6 A	Siemens	5SY4	30XT83	—	30XV46	30XW07
1.6 A	Siemens	5SY6	30XZ14	30XY21	—	—
2 A	Siemens	5SY4	30XU44	—	30XV26	30XV78
2 A	Siemens	5SY6	30XX55	30XX67	—	—
2 A	Eaton	FAZ	19YE61	19YE93	19YF42	—
2 A	Schneider Electric	C60SP	482K89	482L08	482L24	482L37
3 A	Eaton	FAZ	19YE62	19YE94	19YF43	—
3 A	Siemens	5SY4	30XU53	—	30XU22	30XV81
3 A	Siemens	5SY6	30XX56	30XY12	—	—
3 A	Schneider Electric	C60SP	482K90	482L09	—	—
4 A	Siemens	5SY4	30XU61	—	30XV30	30XV84

SIEMENS · EATON BUSSMANN SERIES · Schneider Electric

UL 1077 Circuit Protectors

- B curve = magnetic trip between 3.2 and 4.8 times rated current (computer, electronic, and generator applications)
- C curve = magnetic trip between 7 and 10 times rated current (general purpose applications)
- D curve = magnetic trip between 10 and 14 times rated current (motors, transformers, and similar applications)

UL1077 listed supplementary protectors are used as extra protection for devices with branch circuit protection that is not sensitive enough for downstream components or where branch protection isn't required. They open the circuit upon overload or in the event of a short circuit to protect equipment from damage. They mount on standard 35mm DIN rail to protect sensitive equipment, like luminaires, appliances, control circuits, control power transformers, and other electrical equipment.

19YE45

Amps	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.	4-POLE Item No.
4 A	Eaton	FAZ	19YE63	19YE95	19YF44	—
4 A	Siemens	5SY6	30XZ26	30XZ32	—	—
4 A	Schneider Electric	C60SP	482K91	482L10	—	—
5 A	Siemens	5SY4	30XU67	—	30XV38	—
5 A	Schneider Electric	C60SP	482K92	482L11	—	—
5 A	Eaton	FAZ	19YE64	19YE96	19YF45	—
5 A	Siemens	5SY6	—	30XX68	—	—
6 A	Eaton	FAZ	19YE65	19YE97	19YF46	—
6 A	Siemens	5SY6	30XX57	30XX69	—	—
6 A	Siemens	5SY4	30XZ28	—	30XZ23	30XV90
6 A	Schneider Electric	C60SP	482K93	482L12	482L25	482L38
8 A	Siemens	5SY6	30XX58	30XY17	—	—
8 A	Siemens	5SY4	30XZ42	—	30XV35	30XV93
8 A	Eaton	FAZ	19YE66	19YE98	19YF47	—
8 A	Schneider Electric	C60SP	482K94	482L13	482L26	482L39
10 A	Eaton	FAZ	19YE67	19YE99	19YF48	—
10 A	Siemens	5SY4	30XU03	—	30XU07	30XV97
10 A	Siemens	5SY6	30XZ27	30XX70	—	—
10 A	Schneider Electric	C60SP	482K95	482L14	482L27	482L40
13 A	Siemens	5SY6	30XX59	30XX71	—	—
13 A	Siemens	5SY4	30XU10	—	30XV41	30XW02
13 A	Eaton	FAZ	19YE68	19YF01	19YF49	—
13 A	Schneider Electric	C60SP	482K96	—	482L28	482L41
15 A	Siemens	5SY4	30XU15	—	30XV51	—
15 A	Eaton	FAZ	19YE69	19YF02	19YF50	—
16 A	Siemens	5SY6	30XX60	30XZ22	—	—
16 A	Siemens	5SY4	30XU18	—	30XV49	30XW11
16 A	Eaton	FAZ	19YE70	19YF03	19YF51	—
16 A	Schneider Electric	C60SP	482K97	482L16	482L29	482L42
20 A	Siemens	5SY6	30XX61	30XZ31	30XX98	—
20 A	Eaton	FAZ	19YE71	19YF04	19YF52	—
20 A	Schneider Electric	C60SP	482K98	482L17	482L30	482L43
20 A	Siemens	5SY4	30XU37	—	30XU06	30XW15
25 A	Siemens	5SY6	30XX62	30XX96	—	—
25 A	Eaton	FAZ	19YE72	19YF05	19YF53	—
25 A	Schneider Electric	C60SP	482K99	482L18	482L31	482L44
25 A	Siemens	5SY4	30XU41	—	30XU14	30XW19
30 A	Siemens	5SY4	30XU46	30XV06	30XV57	—
32 A	Siemens	5SY4	30XU49	—	30XU08	30XW23
32 A	Siemens	5SY6	30XX63	30XY03	—	—
32 A	Eaton	FAZ	19YE73	19YF06	19YF54	—
32 A	Schneider Electric	C60SP	482L01	482L19	482L32	482L45
35 A	Siemens	5SY4	30XU51	30XV10	30XV60	—
40 A	Siemens	5SY4	30XU57	—	30XV63	30XW27
40 A	Siemens	5SY6	30XX64	30XX90	—	—
40 A	Eaton	FAZ	19YE74	19YF07	19YF55	—
40 A	Schneider Electric	C60SP	482L02	482L20	482L33	482L46
45 A	Siemens	5SY4	30XU59	30XV14	30XV64	—
45 A	Schneider Electric	C60SP	482L03	482L21	482L34	482L47
50 A	Eaton	FAZ	19YE75	19YF08	19YF56	—
50 A	Siemens	5SY4	30XU65	—	30XV67	30XW31
50 A	Schneider Electric	C60SP	482L04	482L22	482L35	482L48
50 A	Siemens	5SY6	30XX99	30XY14	—	—
60 A	Siemens	5SY4	30XU68	—	30XV69	—
63 A	Siemens	5SY6	30XX65	30XY15	—	—
63 A	Schneider Electric	C60SP	482L05	482L23	482L36	482L49
63 A	Eaton	FAZ	19YE76	19YF09	19YF57	—
63 A	Siemens	5SY4	30XU71	—	30XV72	30XW35
80 A	Siemens	5SY4	30XZ33	—	30XZ20	—

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CONTINUED

UL 1077 Circuit Protectors

Amps	Brand	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.	4-POLE Item No.
D-Curve						
0.3 A	Siemens	5SY4	30XT78	30XU93	30XV44	30XW05
0.5 A	Siemens	5SY4	30XT81	30XU84	30XT87	30XV87
0.5 A	Schneider Electric	C60SP	482L67	—	—	—
1 A	Siemens	5SY4	30XU29	30XU76	30XT86	30XV76
1 A	Schneider Electric	C60SP	482L50	482L68	—	—
1 A	Eaton	FAZ	19YE77	19YF24	19YF58	—
1.6 A	Siemens	5SY4	30XT84	30XU96	30XT98	30XW08
2 A	Eaton	FAZ	19YE78	19YF25	19YF59	—
2 A	Siemens	5SY4	30XU45	30XU78	30XV27	30XV79
2 A	Schneider Electric	C60SP	482L51	482L69	482L85	482L98
3 A	Eaton	FAZ	19YE79	19YF26	19YF60	—
3 A	Siemens	5SY4	30XU54	30XU80	30XT91	30XV82
3 A	Schneider Electric	C60SP	482L52	482L70	—	—
4 A	Siemens	5SY4	30XU62	30XU82	30XT96	30XV85
4 A	Schneider Electric	C60SP	482L53	482L71	—	—
4 A	Eaton	FAZ	19YE80	19YF27	19YF61	—
5 A	Eaton	FAZ	19YE81	19YF28	19YF62	—
5 A	Schneider Electric	C60SP	482L54	482L72	—	—
6 A	Siemens	5SY4	30XZ30	30XU31	30XT92	30XV91
6 A	Eaton	FAZ	19YE82	19YF29	19YF63	—
6 A	Schneider Electric	C60SP	482L55	482L73	482L86	482L99
8 A	Siemens	5SY4	30XZ43	30XU13	30XT88	30XV94
8 A	Schneider Electric	C60SP	482L56	482L74	482L87	482M01
8 A	Eaton	FAZ	19YE83	19YF30	19YF64	—
10 A	Siemens	5SY4	30XU04	30XU33	30XU02	30XV98
10 A	Eaton	FAZ	19YE84	19YF31	19YF65	—
10 A	Schneider Electric	C60SP	482L57	482L75	482L88	482M02
13 A	Siemens	5SY4	30XU11	30XU92	30XV42	30XW03
13 A	Eaton	FAZ	19YE85	19YF32	19YF66	—
13 A	Schneider Electric	C60SP	482L58	482L76	482L89	482M03
15 A	Eaton	FAZ	19YE86	19YF33	19YF67	—
16 A	Siemens	5SY4	30XU25	30XU99	30XV50	30XW12
16 A	Eaton	FAZ	19YE87	19YF34	19YF68	—
16 A	Schneider Electric	C60SP	482L59	482L77	482L90	482M04
20 A	Schneider Electric	C60SP	482L60	482L78	482L91	482M05
20 A	Eaton	FAZ	19YE88	19YF35	19YF69	—
20 A	Siemens	5SY4	30XU38	30XU34	30XV54	30XW16
25 A	Siemens	5SY4	30XU42	30XV05	30XV56	30XW20
25 A	Schneider Electric	C60SP	482L61	482L79	482L92	482M06
25 A	Eaton	FAZ	19YE89	19YF36	19YF70	—
32 A	Eaton	FAZ	19YE90	19YF37	19YF71	—
32 A	Schneider Electric	C60SP	482L62	482L80	482L93	482M07
32 A	Siemens	5SY4	30XU50	30XV09	30XZ21	30XW24
40 A	Schneider Electric	C60SP	482L63	482L81	482L94	482M08
40 A	Siemens	5SY4	30XU58	30XV13	30XT95	30XW28
40 A	Eaton	FAZ	19YE91	19YF38	19YF72	—
45 A	Schneider Electric	C60SP	482L64	482L82	482L95	482M09
50 A	Siemens	5SY4	30XU66	30XV17	30XV68	30XW32
50 A	Schneider Electric	C60SP	482L65	482L83	482L96	482M10
50 A	Eaton	FAZ	—	19YF39	19YF73	—
63 A	Schneider Electric	C60SP	482L66	482L84	482L97	482M11
63 A	Eaton	FAZ	—	19YF40	19YF74	—
63 A	Siemens	5SY4	—	30XV22	30XV73	30XW36

Eaton Circuit Breakers and Load Centers

These miniature circuit breakers are compatible with Eaton Cutler-Hammer panelboards and load centers in low-voltage lighting applications and interrupt the flow of current when faults are detected. They prevent damage caused by overcurrents and short circuits.

60JL40

60JL51

60JL64

60JL19

60JL67

Amps	Phase	Max. AIR Rating	Series	Item No.
For Use With Type BR Loadcenters				
1-Pole, 120/240V AC, Ground Fault Circuit Interrupter				
20 A	1	10kA at 120/240V AC	BR	60JL43
1-Pole, 120/240V AC, Standard				
15 A	1	10 kA at 120/240 V AC	BR	60JL25
20 A	1	10kA at 120/240V AC	BR	60JL26
30 A	1	10kA at 120/240V AC	BR	60JL27
1-Pole, 120/240V AC, Tandem				
15 A	1	10kA at 120/240V AC	BR	60JL28
1-Pole, 120V AC, Arc & Ground Fault Circuit Interrupter				
15 A	1	10kA at 120V AC	BR	60JL40
15 A	1	10kA at 120V AC	BR	60JL45
20 A	1	10kA at 120V AC	BR	60JL42
1-Pole, 120V AC, Arc & Ground Fault Circuit Interrupter with Plug-On Neutral				
20 A	1	10kA at 120V AC	BR	60JL47
1-Pole, 120V AC, Arc Fault Circuit Interrupter				
15 A	1	10kA at 120V AC	BR	60JL39
20 A	1	10kA at 120V AC	BR	60JL41
1-Pole, 120V AC, Combination Arc Fault Circuit Interrupter				
15 A	1	10kA at 120V AC	BR	60JL44
1-Pole, 120V AC, Combination Arc Fault Circuit Interrupter with Plug-On Neutral				
20 A	1	10kA at 120V AC	BR	60JL46
1-Pole, 120V AC, Tandem				
15/20 A	1	10kA at 120V AC	BD	60JL23
15 A	1	10 kA at 120 V AC	BD	60JL22
2-Pole, 120/240V AC, Standard				
10 A	1	10kA at 120/240V AC	BR	60JL30
15 A	1	10kA at 120/240V AC	BR	60JL32
20 A	1	10kA at 120/240V AC	BR	60JL33
25 A	1	10kA at 120/240V AC	BR	60JL34
30 A	1	10kA at 120/240V AC	BR	60JL35
40 A	1	10kA at 120/240V AC	BR	60JL36
50 A	1	10kA at 120/240V AC	BR	60JL37
60 A	1	10kA at 120/240V AC	BR	60JL38
100 A	1	10kA at 120/240V AC	BR	60JL31
2-Pole, 120V AC, Tandem				
20 A	1	10kA at 120V AC	BD	60JL24
20 A	1	10kA at 120V AC	BR	60JL29
For Use With Type CH Loadcenters				
1-Pole, 120/240V AC, Arc & Ground Fault Circuit Interrupter with Plug-On Neutral				
20 A	1	10kA at 120/240V AC	CH	60JL59
1-Pole, 120/240V AC, Arc Fault Circuit Interrupter with Plug-On Neutral				
15 A	1	10kA at 120/240V AC	CH	60JL56
20 A	1	10kA at 120/240V AC	CH	60JL58
1-Pole, 120/240V AC, Combination Arc Fault Circuit Interrupter				
15 A	1	10kA at 120/240V AC	CH	60JL55
20 A	1	10kA at 120/240V AC	CH	60JL57
1-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	CH	60JL49
20 A	1	10kA at 120/240V AC	CH	60JL50
1-Pole, 120/240V AC, Tandem				
20 A	1	10kA at 120/240V AC	CH	60JL60
2-Pole, 120/240V AC, Standard				
20 A	1	10kA at 120/240V AC	CH	60JL51
30 A	1	10kA at 120/240V AC	CH	60JL52
40 A	1	10kA at 120/240V AC	CH	60JL53
50 A	1	10kA at 120/240V AC	CH	60JL54
60 A	1	10kA at 120/240V AC	CH	60JL48

Amps	Voltage	No. of Spaces	SCCR	Enclosure NEMA Rating	Included Enclosure Cover	H	W	D	Item No.
Single-Phase, Eaton BR - Main Lug Load Centers									
125 A	120/240V AC	8	10kA	3R	Cover	13 in	11 in	3 14/25 in	60JL63
125 A	120/240V AC	24	10kA	1	Flush, Surface	3.88 in	14.31 in	23 in	60JL64
Single-Phase, Eaton CH - Main Lug Load Centers									
125 A	120/240V AC	24	25kA	1	Order Separately	4 in	14.3 in	21 in	60JL65
225 A	120/240V AC	42	10kA	1	Order Separately	3.88 in	14.31 in	34 3/25 in	60JL66

Description	Item No.
Circuit Breaker and Panelboard Locking Devices	
Handle Lockoff, For Use With Single, Two, Three Pole BR and BD Circuit Breaker	60JL20
Handle Lockoff, For Use With Single, Two, Three Pole CH and BD Circuit Breaker	60JL21
Circuit Breaker and Panelboard Lugs	
Lug, Amps 125 A, Number of Lugs Included 1	60JL19
Ground Bar Kits	
Ground Bar Kit, Number of Terminals 10, For Use With BR Loadcenters and Circuit Breaker	60JL67
Ground Bar Kit, Number of Terminals 21, For Use With BR Loadcenters and Circuit Breaker	60JL68
Load Center and Panelboard Accessories	
Cover Screw, For Use With Type CH Loadcenter and Breaker	60JL62
Filler Plate, For Use With WMB Style Meter Breaker	60JL61
Panelboard Covers, Enclosures and Kits	
Cover, Amps 225 A, Number of Spaces 24, Mounting Style Flush, For Use With CH Breakers	60JL17
Cover, Amps 225 A, Number of Spaces 32, Mounting Style Flush, For Use With CH Breakers	60JL18

GHB Series Bolt-On Circuit Breakers

Breakers are suitable for low-voltage fluorescent lighting applications and interrupt currents when faults are detected in the circuit. They have a lug orientation to allow for straight-in wiring through bus bars, which eliminates the need to pigtail wires and helps organize the load center. UL Listed and CSA Certified.

	1-Pole, 277V AC			2-Pole, 277/480V AC			3-Pole, 277/480V AC		
Amps	Phase	Max. AIR Rating	Item No.	Phase	Max. AIR Rating	Item No.	Phase	Max. AIR Rating	Item No.
For Use With Eaton Powerline Panelboards									
15 A	Single	14kA at 277V AC	**46MX30**	Single	14kA at 277/480V AC	**46MX37**	Three	14kA at 277/480V AC	**46MX48**
20 A	Single	14kA at 277V AC	**46MX31**	Single	14kA at 277/480V AC	**46MX38**	Three	14kA at 277/480V AC	**46MX49**
25 A	Single	14kA at 277V AC	**46MX32**	Single	14kA at 277/480V AC	**46MX39**	Three	14kA at 277/480V AC	**46MX50**
30 A	Single	14kA at 277V AC	**46MX33**	Single	14kA at 277/480V AC	**46MX40**	Three	14kA at 277/480V AC	**46MX51**
35 A	Single	14kA at 277V AC	**46MX34**	—	—	—	Three	14kA at 277/480V AC	**46MX52**
40 A	Single	14kA at 277V AC	**46MX35**	Single	14kA at 277/480V AC	**46MX41**	Three	14kA at 277/480V AC	**46MX53**
45 A	—	—	—	—	—	—	Three	14kA at 277/480V AC	**46MX54**
50 A	Single	14kA at 277V AC	**46MX36**	Single	14kA at 277/480V AC	**46MX42**	Three	14kA at 277/480V AC	**46MX55**
60 A	—	—	—	Single	14kA at 277/480V AC	**46MX43**	Three	14kA at 277/480V AC	**46MX56**
70 A	—	—	—	Single	14kA at 277/480V AC	**46MX44**	Three	14kA at 277/480V AC	**46MX57**
80 A	—	—	—	Single	14kA at 277/480V AC	**46MX45**	Three	14kA at 277/480V AC	**46MX58**
90 A	—	—	—	Single	14kA at 277/480V AC	**46MX46**	Three	14kA at 277/480V AC	**46MX59**
100 A	—	—	—	Single	14kA at 277/480V AC	**46MX47**	Three	14kA at 277/480V AC	**46MX60**

46MX30

Molded Case Series C Circuit Breakers

Designed with standard load terminals and suitable for reverse-feed use. Thermal magnetic trip type. UL Listed and CSA Certified.

Amps	Max. Wire Size	Mfr. Model	Item No.
EHD Series			
1-Pole, 277V AC			
15 A	1/0 AWG	EHD1015	**46MW70**
20 A	1/0 AWG	EHD1020	**46MW71**
25 A	1/0 AWG	EHD1025	**46MW72**
30 A	1/0 AWG	EHD1030	**46MW73**
40 A	1/0 AWG	EHD1040	**46MW74**
50 A	1/0 AWG	EHD1050	**46MW75**
2-Pole, 480V AC			
15 A	1/0 AWG	EHD2015	**46MW76**
20 A	1/0 AWG	EHD2020	**46MW77**
25 A	1/0 AWG	EHD2025	**46MW78**
30 A	1/0 AWG	EHD2030	**46MW79**
35 A	1/0 AWG	EHD2035	**46MW80**
40 A	1/0 AWG	EHD2040	**46MW81**
50 A	1/0 AWG	EHD2050	**46MW82**
60 A	1/0 AWG	EHD2060	**46MW83**
70 A	1/0 AWG	EHD2070	**46MW84**
80 A	1/0 AWG	EHD2080	**46MW85**
3-Pole, 480V AC			
15 A	1/0 AWG	EHD3015	**46MW86**
20 A	1/0 AWG	EHD3020	**46MW87**
25 A	1/0 AWG	EHD3025	**46MW88**
30 A	1/0 AWG	EHD3030	**46MW89**
35 A	1/0 AWG	EHD3035	**46MW90**
40 A	1/0 AWG	EHD3040	**46MW91**
50 A	1/0 AWG	EHD3050	**46MW92**
60 A	1/0 AWG	EHD3060	**46MW93**
70 A	1/0 AWG	EHD3070	**46MW94**
80 A	1/0 AWG	EHD3080	**46MW95**
90 A	1/0 AWG	EHD3090	**46MW96**
100 A	1/0 AWG	EHD3100	**46MW97**
FD Series			
1-Pole, 347V AC			
20 A	1/0 AWG	FD1020	**46MW98**
30 A	1/0 AWG	FD1030	**46MW99**
2-Pole, 600V AC			
15 A	1/0 AWG	FD2015	**46MX01**
20 A	1/0 AWG	FD2020	**46MX02**
25 A	1/0 AWG	FD2025	**46MX03**
30 A	1/0 AWG	FD2030	**46MX04**
40 A	1/0 AWG	FD2040	**46MX05**
50 A	1/0 AWG	FD2050	**46MX06**
60 A	1/0 AWG	FD2060	**46MX07**
70 A	1/0 AWG	FD2070	**46MX08**
80 A	1/0 AWG	FD2080	**46MX09**
90 A	1/0 AWG	FD2090	**46MX10**
100 A	1/0 AWG	FD2100	**46MX11**
3-Pole, 600V AC			
15 A	1/0 AWG	FD3015	**46MX12**
20 A	1/0 AWG	FD3020	**46MX13**
25 A	1/0 AWG	FD3025	**46MX14**
30 A	1/0 AWG	FD3030	**46MX15**
35 A	1/0 AWG	FD3035	**46MX16**
40 A	1/0 AWG	FD3040	**46MX17**
45 A	1/0 AWG	FD3045	**46MX18**
50 A	1/0 AWG	FD3050	**46MX19**
60 A	1/0 AWG	FD3060	**46MX20**
70 A	1/0 AWG	FD3070	**46MX21**
80 A	1/0 AWG	FD3080	**46MX22**
90 A	1/0 AWG	FD3090	**46MX23**
100 A	1/0 AWG	FD3100	**46MX24**
125 A	1/0 AWG	FD3125	**46MX25**
150 A	1/0 AWG	FD3150	**46MX26**
175 A	1/0 AWG	FD3175	**46MX27**
200 A	1/0 AWG	FD3200	**46MX28**
225 A	1/0 AWG	FD3225	**46MX29**
HFD Series			
1-Pole, 277V AC			
20 A	1/0 AWG	HFD1020	**46MX63**
30 A	1/0 AWG	HFD1030	**46MX64**
2-Pole, 600V AC			
15 A	1/0 AWG	HFD2015	**46MX65**
20 A	1/0 AWG	HFD2020	**46MX66**
30 A	1/0 AWG	HFD2030	**46MX67**
3-Pole, 600V AC			
15 A	1/0 AWG	HFD3015	**46MX68**
20 A	1/0 AWG	HFD3020	**46MX69**
25 A	1/0 AWG	HFD3025	**46MX70**
30 A	1/0 AWG	HFD3030	**46MX71**
40 A	1/0 AWG	HFD3040	**46MX72**
50 A	1/0 AWG	HFD3050	**46MX73**
60 A	1/0 AWG	HFD3060	**46MX74**
70 A	1/0 AWG	HFD3070	**46MX75**
80 A	1/0 AWG	HFD3080	**46MX76**
90 A	1/0 AWG	HFD3090	**46MX77**
100 A	1/0 AWG	HFD3100	**46MX78**
125 A	1/0 AWG	HFD3125	**46MX79**
150 A	1/0 AWG	HFD3150	**46MX80**
175 A	1/0 AWG	HFD3175	**46MX81**
200 A	1/0 AWG	HFD3200	**46MX82**
225 A	1/0 AWG	HFD3225	**46MX83**

46MW70

46MX01

46MX68

Molded Case Series G Circuit Breakers

These 3-pole breakers are suitable for global applications and feature the ability to add alarm circuits and auxiliary contacts easily to the unit. Thermal magnetic trip type. UL Listed and CSA Certified.

46MY68

Amps	Max. AIR Rating	Mfr. Model	Item No.	Max. AIR Rating	Mfr. Model	Item No.
EG Series						
15 A	35kA at 240V AC	EGE3015FFG	**46MY17**	100kA at 240V AC	EGH3015FFG	**46MY29**
20 A	35kA at 240V AC	EGE3020FFG	**46MY18**	100kA at 240V AC	EGH3020FFG	**46MY30**
25 A	35kA at 240V AC	EGE3025FFG	**46MY19**	100kA at 240V AC	EGH3025FFG	**46MY31**
30 A	35kA at 240V AC	EGE3030FFG	**46MY20**	100kA at 240V AC	EGH3030FFG	**46MY32**
35 A	35kA at 240V AC	EGE3035FFG	**46MY21**	—	—	—
40 A	35kA at 240V AC	EGE3040FFG	**46MY22**	100kA at 240V AC	EGH3040FFG	**46MY33**
50 A	35kA at 240V AC	EGE3050FFG	**46MY23**	100kA at 240V AC	EGH3050FFG	**46MY34**
60 A	35kA at 240V AC	EGE3060FFG	**46MY24**	100kA at 240V AC	EGH3060FFG	**46MY35**
70 A	35kA at 240V AC	EGE3070FFG	**46MY25**	100kA at 240V AC	EGH3070FFG	**46MY36**
80 A	35kA at 240V AC	EGE3080FFG	**46MY26**	—	—	—
100 A	35kA at 240V AC	EGE3100FFG	**46MY27**	100kA at 240V AC	EGH3100FFG	**46MY37**
125 A	35kA at 240V AC	EGE3125FFG	**46MY28**	100kA at 240V AC	EGH3125FFG	**46MY38**
JG Series						
100 A	25kA at 240V AC	JGE3100FAG	**46MY53**	100kA at 480V AC	JGH3100FAG	**46MY58**
150 A	25kA at 240V AC	JGE3150FAG	**46MY54**	100kA at 480V AC	JGH3150FAG	**46MY59**
175 A	25kA at 240V AC	JGE3175FAG	**46MY55**	100kA at 480V AC	JGH3175FAG	**46MY60**
200 A	25kA at 240V AC	JGE3200FAG	**46MY56**	100kA at 480V AC	JGH3200FAG	**46MY61**
250 A	25kA at 240V AC	JGE3250FAG	**46MY57**	100kA at 480V AC	JGH3250FAG	**46MY62**
LG Series						
350 A	65kA at 240V AC	LGE3350FAG	**46MY68**	100kA at 480V AC	LGH3350FAG	**46MY72**
400 A	65kA at 240V AC	LGE3400FAG	**46MY69**	100kA at 480V AC	LGH3400FAG	**46MY73**
500 A	65kA at 240V AC	LGE3500FAG	**46MY70**	100kA at 480V AC	LGH3500FAG	**46MY74**
600 A	65kA at 240V AC	LGE3600FAG	**46MY71**	100kA at 480V AC	LGH3600FAG	**46MY75**

Push-to-Reset Style 10C603

Push-Button Style 4VA62

Rocker Style 4VA66

Toggle Style 3XC62

Front Panel-Mount Miniature Circuit Breakers

Carling Technologies®

Miniature circuit breakers interrupt current overloads and mount on the front panel of equipment. They're typically used with simple systems that don't have separate electrical panels or enclosures, like power supplies, medical equipment, control panels, and telecommunications equipment.

Amps	AC Volt Rating	DC Volt Rating	Mounting Type	D	Terminal Connec.	Item No.
Push Button Style, Front Panel-Mount Miniature Circuit Breakers						
1-Pole						
2 A	250V AC	80V DC	Snap-In	1.85 in	¼ in Tab	**10C603**
5 A	125/250V AC	32V DC	⅜ in Collar	1.78 in	¼ in Tab	**4VA62**
5 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA75**
5 A	125/250V AC	32V DC	11mm Collar	1.78 in	¼ in Tab	**4VA71**
5 A	250V AC	80V DC	Snap-In	1.85 in	¼ in Tab	**10C604**
10 A	125/250V AC	32V DC	⅜ in Collar	1.78 in	¼ in Tab	**4VA63**
10 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA76**
10 A	125/250V AC	32V DC	11mm Collar	1.78 in	¼ in Tab	**4VA72**
15 A	125/250V AC	32V DC	⅜ in Collar	1.78 in	¼ in Tab	**4VA64**
15 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA78**
15 A	125/250V AC	32V DC	11mm Collar	1.78 in	¼ in Tab	**4VA73**
20 A	125/250V AC	32V DC	⅜ in Collar	1.78 in	¼ in Tab	**4VA65**
20 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA77**
20 A	125/250V AC	32V DC	11mm Collar	1.78 in	¼ in Tab	**4VA74**
30 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA79**
40 A	125/250V AC	32V DC	⅜ in Collar	2.31 in	¼ in Tab	**4VA80**
2-Pole						
10 A	250V AC	80V DC	Snap-In	1.85 in	¼ in Tab	**10C605**
Rocker Style, Front Panel-Mount Miniature Circuit Breakers						
1-Pole						
5 A	125/250V AC	50V DC	Snap-In Bezel	2.23 in	¼ in Tab	**4VA66**
5 A	250V AC	32V DC	Snap-In	1.9 in	¼ in Tab	**10C598**
7 A	125/250V AC	50V DC	Snap-In Bezel	2.23 in	¼ in Tab	**4VA67**
10 A	125/250V AC	50V DC	Snap-In Bezel	2.23 in	¼ in Tab	**4VA68**
10 A	250V AC	32V DC	Snap-In	1.9 in	¼ in Tab	**10C599**
12 A	125/250V AC	50V DC	Snap-In Bezel	2.23 in	¼ in Tab	**4VA69**
15 A	125/250V AC	50V DC	Snap-In Bezel	1.9 in	¼ in Tab	**4VA70**
2-Pole						
7.5 A	250V AC	32V DC	Snap-In	1.9 in	¼ in Tab	**10C601**
Toggle Style, Front Panel-Mount Miniature Circuit Breakers						
1-Pole						
5 A	250V AC	80V DC	Snap-In	1.77 in	¼ in Tab	**10C602**

Amps	AC Volt Rating	DC Volt Rating	Mounting Type	D	Terminal Connec.	Item No.
5 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C588**
7.5 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C589**
10 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC62**
10 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C590**
10 A	250V AC	65V DC	Threaded Insert	2.69 in	#10-32 Screw	**10C594**
15 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC63**
15 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C591**
15 A	250V AC	80V DC	Threaded Insert	2.69 in	#10-32 Screw	**10C595**
20 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC64**
20 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C592**
25 A	277V AC	80V DC	Threaded Insert	2.09 in	¼ in Tab	**10C606**
30 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC65**
30 A	240/277V AC	125V DC	Threaded Insert	2.48 in	#10-32 Stud	**3XC70**
30 A	250/277V AC	80V DC	Threaded Insert	2.03 in	#10-32 Screw	**10C593**
30 A	250V AC	65V DC	Threaded Insert	2.69 in	#10-32 Screw	**10C596**
40 A	240/277V AC	125V DC	Threaded Insert	2.48 in	#10-32 Stud	**3XC71**
40 A	277V AC	80V DC	Threaded Insert	2.12 in	#10-32 Screw	**10C607**
50 A	125V AC	65V DC	Threaded Insert	2.69 in	#10-32 Screw	**10C597**
50 A	250V AC	80V DC	Threaded Insert	2.52 in	#10-32 Stud	**10C610**
60 A	240/277V AC	125V DC	Threaded Insert	2.48 in	#1/4-20 Stud	**3XC72**
70 A	240/277V AC	125V DC	Threaded Insert	2.52 in	#1/4-20 Stud	**10C611**
100 A	250V AC	80V DC	Threaded Insert	2.52 in	#1/4-20 Stud	**10C612**
2-Pole						
10 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC66**
15 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC67**
20 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC68**
30 A	277V AC	80V DC	Threaded Insert	2.12 in	¼ in Tab	**3XC69**
30 A	240/277V AC	125V DC	Threaded Insert	2.48 in	#10-32 Stud	**3XC73**
40 A	240/277V AC	125V DC	Threaded Insert	2.48 in	#10-32 Stud	**3XC74**
40 A	277V AC	80V DC	Threaded Insert	2.12 in	#10-32 Screw	**10C608**
50 A	277V AC	80V DC	Threaded Insert	2.12 in	#10-32 Screw	**10C609**
50 A	250V AC	80V DC	Threaded Insert	2.52 in	#10-32 Stud	**10C613**
60 A	250V AC	80V DC	Threaded Insert	2.53 in	#1/4-20 Screw	**3XC75**
70 A	240/277V AC	125V DC	Threaded Insert	2.52 in	#1/4-20 Stud	**10C614**

3YMR7

Connecticut Electric
Quality Electrical Products • Since 1906

Obsolete Miniature Circuit Breakers for Panelboards & Load Centers

- 1-phase
- 10kA IR

Miniature circuit breakers are used with panelboards and load centers that are no longer in production. They interrupt the flow of current when low-level faults are detected. They prevent damage caused by overcurrents and short circuits in residential, light commercial, and industrial applications.

Amps	AC Volt Rating	W	Series	Brand	Item No.
For Use With Challenger and Thomas and Betts Load Centers Miniature Circuit Breaker					
1-Pole, Plug In					
15 A	120V AC	0.5 in	UBITBA Left	Challenger	**3RAL4**
15 A	120V AC	0.5 in	UBITBA Right	Challenger	**3YMN3**
20 A	120V AC	0.5 in	UBITBA Left	Challenger	**3YMN4**
20 A	120V AC	0.5 in	UBITBA Right	Challenger	**3YMN5**
30 A	120V AC	0.5 in	UBITBA Left	Challenger	**15F782**
30 A	120V AC	0.5 in	UBITBA Right	Challenger	**15F783**
2-Pole, Plug In					
15 A	120/240V AC	1 in	UBITBA	Challenger	**3YMN6**
20 A	120/240V AC	1 in	UBITBA	Challenger	**3YMN7**
30 A	120/240V AC	1 in	UBITBA	Challenger	**3YMN8**
40 A	120/240V AC	1 in	UBITBA	Challenger	**3YMN9**
50 A	120/240V AC	1 in	UBITBA	Challenger	**3YMP1**
For Use With Federal Pacific Load Centers Miniature Circuit Breaker					
1-Pole, Plug In					
15 A	120V AC	0.5 in	UBIF	Federal Pacific	**3YMP2**
15 A	120V AC	1 in	UBIF	Federal Pacific	**3YMP9**
20 A	120V AC	0.5 in	UBIF	Federal Pacific	**3YMP3**
20 A	120V AC	1 in	UBIF	Federal Pacific	**3YMR1**
30 A	120V AC	0.5 in	UBIF	Federal Pacific	**6YEY0**
30 A	120V AC	1 in	UBIF	Federal Pacific	**6YEY4**
40 A	120V AC	0.5 in	UBIF	Federal Pacific	**6YEY1**
40 A	120V AC	1 in	UBIF	Federal Pacific	**6YEY5**
50 A	120V AC	0.5 in	UBIF	Federal Pacific	**6YEY2**
50 A	120V AC	1 in	UBIF	Federal Pacific	**6YEY6**
2-Pole, Plug In					
15 A	120/240V AC	1 in	UBIF	Federal Pacific	**3YMP4**
15 A	120/240V AC	2 in	UBIF	Federal Pacific	**3YMR2**
20 A	120/240V AC	1 in	UBIF	Federal Pacific	**3YMP5**
20 A	120/240V AC	2 in	UBIF	Federal Pacific	**3YMR3**
30 A	120/240V AC	1 in	UBIF	Federal Pacific	**3YMP6**
30 A	120/240V AC	2 in	UBIF	Federal Pacific	**3YMR4**
40 A	120/240V AC	1 in	UBIF	Federal Pacific	**3YMP7**
40 A	120/240V AC	2 in	UBIF	Federal Pacific	**3YMR5**
50 A	120/240V AC	1 in	UBIF	Federal Pacific	**3YMP8**
50 A	120/240V AC	2 in	UBIF	Federal Pacific	**3YMR6**
60 A	120/240V AC	2 in	UBIF	Federal Pacific	**15F790**
For Use With Federal Pacific NBLP Commercial Panels Miniature Circuit Breaker					
1-Pole, Bolt On					
15 A	120V AC	1.0 in	UBIF	Federal Pacific	**56DY23**
20 A	120V AC	1.0 in	UBIF	Federal Pacific	**56DY24**
30 A	120V AC	1.0 in	UBIF	Federal Pacific	**56DY30**
2-Pole, Bolt On					
20 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY25**
30 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY26**
40 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY27**
50 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY28**
60 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY29**
70 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY45**
80 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY46**
90 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY47**
100 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY48**
125 A	120/240V AC	2.0 in	UBIF	Federal Pacific	**56DY49**
For Use With Pushmatic and Bulldog Load Centers Miniature Circuit Breaker					
1-Pole, Bolt On					
15/15 A	120V AC	1.5 in	UBIP	Pushmatic	**3YMT6**
15 A	120V AC	1.5 in	UBIP	Pushmatic	**3YMR7**
20/20 A	120V AC	1.5 in	UBIP	Pushmatic	**3YMT7**
20 A	120V AC	1.5 in	UBIP	Pushmatic	**3YMR8**
2-Pole, Bolt On					
15 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMR9**
20 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMT1**
30 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMT2**
40 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMT3**
50 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMT4**
2-Pole, Plug In					
100 A	120/240V AC	1.5 in	UBIP	Pushmatic	**3YMT5**
For Use With Pushmatic Load Centers Miniature Circuit Breaker					
1-Pole, Bolt On					
30 A	120V AC	1.81 in	UBIP	Pushmatic	**6YEY3**

Amps	AC Volt Rating	W	Series	Brand	Item No.
For Use With Wadsworth Load Centers Miniature Circuit Breaker					
1-Pole, Plug In					
15 A	120V AC	1 in	UBIA	Wadsworth	**3YMX9**
20 A	120V AC	1 in	UBIA	Wadsworth	**3YMY1**
30 A	120V AC	1 in	UBIA	Wadsworth	**15F784**
40 A	120V AC	1 in	UBIA	Wadsworth	**15F785**
2-Pole, Plug In					
15 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY2**
20 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY3**
30 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY4**
40 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY5**
50 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY6**
70 A	120/240V AC	2 in	UBIA	Wadsworth	**15F787**
100 A	120/240V AC	2 in	UBIA	Wadsworth	**3YMY7**
For Use With Zinsco Load Centers Miniature Circuit Breaker					
1-Pole, Bolt On					
15 A	120V AC	0.75 in	UBI	Zinsco	**56DY31**
20 A	120V AC	0.75 in	UBI	Zinsco	**56DY32**
30 A	120V AC	0.75 in	UBI	Zinsco	**56DY33**
1-Pole, Plug In					
15/15 A	120V AC	0.75 in	UBIZ	Zinsco	**3YMW9**
15 A	120V AC	0.75 in	UBIZ	Zinsco	**3YMV9**
20/20 A	120V AC	0.75 in	UBIZ	Zinsco	**3YMX1**
20 A	120V AC	0.75 in	UBIZ	Zinsco	**3YMW1**
30 A	120V AC	0.75 in	UBIZ	Zinsco	**6YEY9**
40 A	120V AC	0.75 in	UBIZ	Zinsco	**6YEZ0**
50 A	120V AC	0.75 in	UBIZ	Zinsco	**6YEZ1**
2-Pole, Bolt On					
15 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY34**
20 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY35**
30 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY36**
40 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY37**
50 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY38**
60 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY39**
70 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY40**
80 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY41**
90 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY42**
100 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY43**
125 A	120/240V AC	1.5 in	UBI	Zinsco	**56DY44**
2-Pole, Plug In					
15 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW2**
15 A	120/240V AC	0.75 in	UBIZ	Zinsco	**3YMX2**
20 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW3**
20 A	120/240V AC	0.75 in	UBIZ	Zinsco	**3YMX3**
30 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW4**
30 A	120/240V AC	0.75 in	UBIZ	Zinsco	**3YMX4**
35 A	120/240V AC	0.75 in	UBIZ	Zinsco	**6YEY7**
40 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW5**
40 A	120/240V AC	0.75 in	UBIZ	Zinsco	**3YMX5**
45 A	120/240V AC	0.75 in	UBIZ	Zinsco	**6YEY8**
50 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW6**
50 A	120/240V AC	0.75 in	UBIZ	Zinsco	**3YMX6**
100 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW7**
125 A	120/240V AC	1.5 in	UBIZ	Zinsco	**3YMW8**
150 A	120/240V AC	3 in	UBITBFP	Zinsco	**3YMX7**
200 A	120/240V AC	3 in	UBITBFP	Zinsco	**3YMX8**

1-Pole QO® Plug-In

1-Pole QOB Bolt-On

1-Pole Tandem

2-Pole QO Plug-In

2-Pole GFCI

3-Pole QO® Plug-In

SQUARE D by Schneider Electric

QO® (Plug-In) and QOB (Bolt-On) Circuit Breakers

- 120/240VAC
- Visi-Trip® indicator
- Standard and VH breakers are UL Listed as HACR type

Qwik-Open® (QO) breakers are for use only with QO load centers and NQ/NQOD panelboards. QOB breakers are for use only with NQ/NQOD panelboards. Rated for aluminum and copper conductors.

	1-POLE				2-POLE				3-POLE			
	QO Plug-In		QOB Bolt-On		QO Plug-In		QOB Bolt-On		QO Plug-In		QOB Bolt-On	
Amps	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Standard 10kA at 120/240V AC IR												
10 A	QO110	**5B720**	QOB110	**1H822**	QO210	**5B738**	QOB210	**2DM53**	QO310	**1D320**	QOB310	**2DM79**
15 A	QO115	**1D230** *	QOB115	**1H823**	QO215	**1D254**	QOB215	**1H884**	QO315	**1D321**	QOB315	**1H893**
20 A	QO120	**1D234** *	QOB120	**1H824**	QO220	**1D301**	QOB220	**1H885**	QO320	**1D322**	QOB320	**1H894**
25 A	QO125	**5B723**	QOB125	**2DM46**	QO225	**5B741**	QOB225	**2DM65**	QO325	**5B760**	QOB325	**2GNF6**
30 A	QO130	**1D239**	QOB130	**1H825**	QO230	**1D307**	QOB230	**1H886**	QO330	**1D324**	QOB330	**1H895**
35 A	QO135	**5B726**	QOB135	**2GNE9**	QO235	**5B743**	QOB235	**2DM70**	QO335	**5B761**	QOB335	**2GNF9**
40 A	QO140	**1D243**	QOB140	**1H826**	QO240	**1D311**	QOB240	**1H887**	QO340	**1D326**	QOB340	**1H896**
45 A	—	—	QOB145	**2GNF3**	QO245	**5B744**	QOB245	**2DM72**	QO345	**5B762**	QOB345	**2DM95**
50 A	QO150	**1D244**	QOB150	**1H879**	QO250	**1D313**	QOB250	**1H888**	QO350	**1D327**	QOB350	**1H897**
60 A	QO160	**1D246**	QOB160	**1H880**	QO260	**1D315**	QOB260	**1H889**	QO360	**1D328**	QOB360	**1H898**
70 A	QO170	**1D247**	QOB170	**2GLE4**	QO270	**1D317**	QOB270	**1H890**	QO370	**1D329**	QOB370	**2DN01**
80 A	—	—	—	—	QO280	**1D318**	QOB280	**2GLJ6**	QO380	**1D330**	QOB380	**2DN04**
90 A	—	—	—	—	QO290	**1D319**	QOB290	**2GLJ8**	QO390	**1D331**	QOB390	**2GLN7**
100 A	—	—	—	—	QO2100	**1D251**	QOB2100	**1H881**	QO3100	**5A539**	QOB3100	**1H891**
110 A	—	—	—	—	QO2110	**1D252**	QOB2110	**2DM56**	—	—	—	—
125 A	—	—	—	—	QO2125	**1D253**	QOB2125	**1H882**	—	—	—	—
VH (High Interrupting Capacity), 22kA at 120/240V AC IR												
15 A	QO115VH	**2GLP4**	QOB115VH	**2GLC4**	QO215VH	**2GLR4**	QOB215VH	**2GLF3**	QO315VH	**2DG81**	QOB315VH	**2GNH2**
20 A	QO120VH	**1D238**	QOB120VH	**2DM45**	QO220VH	**1D306**	QOB220VH	**2GLF8**	QO320VH	**2GLX2**	QOB320VH	**2GLL1**
30 A	QO130VH	**1D242**	QOB130VH	**2DM48**	QO230VH	**1D310**	QOB230VH	**2GLG6**	QO330VH	**1D325**	QOB330VH	**2GLL5**
40 A	—	—	—	—	QO240VH	**2DH30**	QOB240VH	**2GLH2**	QO340VH	**2DG87**	QOB340VH	**2GLL8**
50 A	—	—	—	—	QO250VH	**2GLV5**	QOB250VH	**2GLH7**	QO350VH	**2GLY2**	QOB350VH	**2GLN2**
60 A	—	—	—	—	QO260VH	**2GLV8**	QOB260VH	**2GLJ2**	QO360VH	**5B764**	QOB360VH	**2DM99**
80 A	—	—	—	—	QO280VH	**2GLW3**	QOB280VH	**2GLJ7**	QO380VH	**2GNG6**	QOB380VH	**2GLN6**
100 A	—	—	—	—	QO2100VH	**2GNG3**	QOB2100VH	**2GLE7**	QO3100VH	**2DG78**	QOB3100VH	**2GLK4**
125 A	—	—	—	—	QO2125VH	**2DG53**	QOB2125VH	**2GNG8**	—	—	QOB3125VH	**2DM83**
150 A	—	—	—	—	QO2150VH	**2GLR6**	QOB2150VH	**2GLF4**	—	—	QOB3150VH	**2DM84**
Shunt Trip, Type 1021 Provide Remote Trip from a Separate Circuit, 120/208/240VAC Control, 10kA at 120/240V AC IR												
15 A	QO1151021	**2GLP5**	QOB1151021	**2GLC5**	QO2151021	**2GLR7**	QOB2151021	**2GLF5**	—	—	QOB3151021	**2GLK8**
20 A	QO1201021	**2CT17**	QOB1201021	**2GLC8**	QO2201021	**2DG56**	QOB2201021	**2GLF9**	QO3201021	**2GLX3**	QOB3201021	**2GLL2**
30 A	—	—	QOB1301021	**2GLD7**	QO2301021	**2DG61**	QOB2301021	**2DM66**	QO3301021	**2DG84**	QOB3301021	**2GLL6**
40 A	—	—	QOB1401021	**2GLD9**	QO2401021	**2GLV2**	QOB2401021	**2GLH3**	QO3401021	**2GLX9**	QOB3401021	**2GLL9**
50 A	—	—	—	—	QO2501021	**2GLV6**	QOB2501021	**2GLH8**	QO3501021	**2DG88**	QOB3501021	**2GLN3**
60 A	—	—	—	—	QO2601021	**2GLV9**	QOB2601021	**2GLJ3**	QO3601021	**2GLY3**	QOB3601021	**2GLN4**
70 A	—	—	—	—	QO2701021	**2GLW2**	QOB2701021	**2GLJ5**	QO3701021	**2GLY4**	QOB3701021	**2DN02**
80 A	—	—	—	—	QO2801021	**2GLW4**	—	—	QO3801021	**2GLY5**	QOB3801021	**2DN05**
100 A	—	—	—	—	QO21001021	**2DG50**	QOB21001021	**2GLE8**	QO31001021	**2DG77**	QOB31001021	**2DM80**
HID (High Intensity Discharge), For Use In Lighting Panels, Switch Rated, 10kA IR												
15 A	—	—	—	—	QO215HID	**1D256**	QOB215HID	**2GLF2**	—	—	QOB315HID	**2GLK6**
20 A	QO120HID	**1D236**	QOB120HID	**2DM43**	QO220HID	**1D305**	QOB220HID	**2GLF7**	QO320HID	**2GLW9**	QOB320HID	**2GLK9**
30 A	—	—	QOB130HID	**2GLD6**	QO230HID	**1D309**	QOB230HID	**2GLG4**	—	—	—	—
HM (High Magnetic), Recommended For High Initial Inrush Loads, 10 kA IR												
15 A	QO115HM	**1D233** *	—	—	—	—	—	—	—	—	—	—
20 A	QO120HM	**1D237**	QOB120HM	**2DM44**	—	—	—	—	—	—	—	—
H (UL Listed 5kA IR on 3-Phase Corner Grounded Delta Systems), 10kA at 120/240V AC IR												
100 A	—	—	—	—	—	—	QOB2100H	**2GLE6**	—	—	—	—
SWN (Switch Neutral), 2 Pole Breakers Have 1 Hot, 1 Neutral, 3 Pole Breakers Have 2 Hot, 1 Neutral), 10kA IR												
15 A	—	—	—	—	QO215SWN	**5B739**	QOB215SWN	**2DM59**	—	—	—	—
20 A	—	—	—	—	QO220SWN	**5B740**	QOB220SWN	**2GNJ2**	—	—	QOB320SWN	**2DM87**
GFCI (Ground Fault Circuit Interrupter), 6mA Trip, Used Where Personal Protection is Required, 10kA IR												
15 A	QO115GFI	**1D231**	QOB115GFI	**2GLC1**	QO215GFI	**1D255**	QOB215GFI	**2GLF1**	QO315GFI	**6RHG1**	QOB315GFI	**6PHL6**
20 A	QO120GFI	**1D235**	QOB120GFI	**2DG99**	QO220GFI	**1D304**	QOB220GFI	**2DH05**	QO320GFI	**6RHG3**	QOB320GFI	**6PHL8**
30 A	QO130GFI	**1D240**	QOB130GFI	**2DH03**	QO230GFI	**1D308**	QOB230GFI	**2DH06**	QO330GFI	**6RHG5**	QOB330GFI	**6RHF5**
40 A	—	—	—	—	QO240GFI	**1D312**	QOB240GFI	**2GLG8**	QO340GFI	**6RHG7**	QOB340GFI	**6RHF7**
50 A	—	—	—	—	QO250GFI	**1D314**	QOB250GFI	**2GLH5**	QO350GFI	**6RHG9**	QOB350GFI	**6RHF9**
60 A	—	—	—	—	QO260GFI	**1D316**	QOB260GFI	**2GLJ1**	—	—	—	—
EPD (Equipment Protection Device), 30mA Trip, Used Where Equipment Ground Fault Protection is Required, 10kA IR												
15 A	QO115EPD	**2GLP3**	QOB115EPD	**2GLA9**	QO215EPD	**2DM35**	QOB215EPD	**2GLE9**	—	—	QOB315EPD	**6PHL5**
20 A	QO120EPD	**2DM33**	QOB120EPD	**2GLC7**	QO220EPD	**2DM36**	QOB220EPD	**2GLF6**	QO320EPD	**6RHG2**	QOB320EPD	**6PHL7**
30 A	QO130EPD	**2DM34**	QOB130EPD	**2GLD5**	QO230EPD	**2DM37**	QOB230EPD	**2DM67**	—	—	QOB330EPD	**6RHF4**
40 A	—	—	—	—	—	—	QOB240EPD	**2GLG7**	—	—	QOB340EPD	**6RHF6**
50 A	—	—	—	—	QO250EPD	**2GLV3**	QOB250EPD	**2GLH4**	QO350EPD	**6RHG8**	QOB350EPD	**6RHF8**
60 A	—	—	—	—	QO260EPD	**2GLV7**	QOB260EPD	**2GLH9**	—	—	—	—
AFI (Arc Fault Interrupter), Meets NEC Code Section 210-12 Requirements (Consult Local Codes for Required Locations), 10kA IR												
15 A	QO115PCAFI	**30YE76** †‡	—	—	—	—	—	—	—	—	—	—
15 A	QO115AFI	**3XE17**	QOB115CAFI	**12R458** †	—	—	—	—	—	—	—	—
15 A	QO115CAFI	**12R454** †	QOB115AFI	**2GLA8**	—	—	—	—	—	—	—	—
20 A	QO120CAFI	**12R455** †	QOB120AFI	**2GLC6**	—	—	—	—	—	—	—	—
20 A	QO120PCAFI	**30YE78** †‡	—	—	—	—	—	—	—	—	—	—
20 A	QO120AFI	**3XE18**	QOB120CAFI	**12R459** †	—	—	—	—	—	—	—	—
AFI (Arc Fault Interrupter), Meets NEC Code Section 210-12 Requirements (Consult Local Codes for Required Locations), 22kA IR												
15 A	QO115VHCAFI	**12R456** †	QOB115VHCAFI	**12R460** †	—	—	—	—	—	—	—	—
20 A	QO120VHCAFI	**12R457** †	QOB120VHCAFI	**12R461** †	—	—	—	—	—	—	—	—
20 A	QO120VHPCAFI	**30YE79** †‡	—	—	—	—	—	—	—	—	—	—
QO Tandem, Used on Older Non-CTL QO Load Centers, 10kA at 120/240V AC IR												
15 A	QO1515	**1D245**	—	—	—	—	—	—	—	—	—	—
20 A	QO1520	**5B728**	—	—	—	—	—	—	—	—	—	—
20 A	QO2020	**1D250**	—	—	—	—	—	—	—	—	—	—
30 A	—	—	—	—	QO20303020	**2DG49**	—	—	—	—	—	—
QOT Tandem, Used on Newer QO Load Centers that have a Mounting Rail Slot 10kA at 120/240V AC IR												
15/20 A	QOT1520	**5B778**	—	—	—	—	—	—	—	—	—	—
15 A	QOT1515	**1D336**	—	—	—	—	—	—	—	—	—	—
20 A	QOT2020	**1D337**	—	—	—	—	—	—	—	—	—	—
SB Surge Suppressor, 27kAkA IR												
—	—	—	—	—	QO2175SB	**3XB84**	—	—	—	—	—	—

** UL Listed as SWD (switching duty) rated. † Combination arc fault interrupter senses both parallel and series arcing. ‡ Plug-on neutral.*

Square D Load Center Selection

To choose the proper Load Center for your needs, start by asking yourself the following:

- Do you need a Load Center (14½"W residential enclosure) or a panelboard (20"W commercial enclosure)?
- What type of service do you need: single-phase or 3-phase?
- Do you need an indoor or outdoor Load Center?
- What type of Load Center is required, Main Breaker or Main Lug? (Main Lug has no main disconnect in the load center.)
- What is the max. amperage size of the service?
- How many total spaces does the Load Center require?
- If QO is selected, will you require a Plug-On Neutral arc fault breaker Load Center?
- Verify the Short Circuit Current Rating (SCCR) of the voltage system to ensure correct Load Center for the application

60UM09

QO® Load Centers

SQUARE D by Schneider Electric

- Use only QO circuit breakers (see page 193)

Main Lug Load Centers are used when all the circuit slots in the main breaker load center are full or when a remote panel is desired. **Main Lug, Convertible, Plug-On Neutral Load Centers** can be converted to a main breaker load center, so they can be used to distribute the main supply of power if needed. With a neutral bar on either side of the bus bars, so compatible AFCI (arc fault circuit interrupter) or GFCI (ground fault circuit interrupter) breakers can plug directly onto the bus and neutral bars without requiring a pigtail connection. **Main Breaker Load Centers** can be converted to a main lug load center with a required lug kit, so they can be used when a remote panel is desired. **Main Breaker, Convertible, Plug-On Neutral Load Center** can be converted to a main lug load center with a required lug kit, so they can be used when a remote panel is desired. These load centers have a neutral bar on either side of the bus bars, so compatible AFCI (arc fault circuit interrupter) or GFCI (ground fault circuit interrupter) breakers can plug directly onto the bus and neutral bars without requiring a pigtail connection.

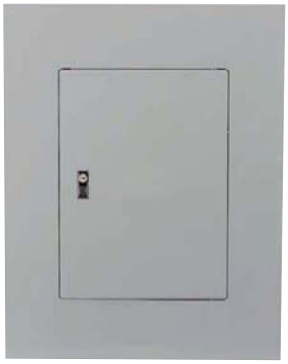
Amps	No. of Spaces	Max. No. of Tandem Breakers	Enclosure NEMA Rating	W	H	D	Included Enclosure Cover	Item No.
Square D QO - Main Lug Load Centers								
Indoor, 1-Phase 120/240V AC								
30 A	2	0	1	3.81 in	6.73 in	3 in	Surface Cover	**5B755**
70 A	2	2	1	4.8 in	9.3 in	3 ¼ in	Surface Cover	**1D390**
70 A	2	2	1	4.8 in	9.3 in	3 ¼ in	Flush Cover	**1D388**
100 A	6	6	1	8.91 in	12.56 in	3 ¾ in	Surface Cover	**1D420**
100 A	6	6	1	8.91 in	12.56 in	3 ¾ in	Surface Cover	**5B767**
100 A	8	8	1	8.91 in	12.56 in	3 ¾ in	Surface Cover	**5B770**
100 A	8	8	1	8.91 in	12.56 in	3 ¾ in	Flush Cover	**5B769**
100 A	8	8	1	8.91 in	12.56 in	3 ¾ in	Surface Cover	**1D424**
100 A	6	6	1	8.91 in	12.56 in	3 ¾ in	Flush Cover	**5B766**
Indoor, 3-Phase 208Y/120/240V AC								
60 A	3	0	1	5.88 in	13.11 in	3 ½ in	Surface Cover	**1D413**
60 A	3	0	1	5.88 in	13.11 in	3 ½ in	Flush Cover	**1D411**
125 A	12	0	1	14.25 in	17.91 in	3 ¾ in	Order Separately	**1D400**
125 A	20	0	1	14.25 in	20.91 in	3 ¾ in	Order Separately	**1D405**
125 A	24	0	1	14.25 in	20.91 in	3 ¾ in	Order Separately	**6B460**
200 A	18	0	1	14.25 in	29.84 in	3 ¾ in	Order Separately	**1D402**
200 A	30	0	1	14.25 in	29.84 in	3 ¾ in	Order Separately	**1D407**
225 A	42	0	1	14.25 in	37.98 in	3 ¾ in	Order Separately	**1D409**
Outdoor, 1-Phase 120/240V AC								
40 A	2	0	3R	4.88 in	9.38 in	4 in	Surface Cover	**5B756**
60 A	2	2	3R	6.55 in	8.78 in	4 in	Surface Cover	**1GEG4**
70 A	2	2	3R	4.88 in	9.38 in	4 in	Surface Cover	**1D389**
100 A	6	6	3R	8.91 in	12.64 in	4 ¼ in	Surface Cover	**1D419**
100 A	8	8	3R	8.91 in	12.64 in	4 ¼ in	Surface Cover	**1D423**
Outdoor, 3-Phase 208Y/120/240V AC								
60 A	3	0	3R	6.94 in	13.19 in	4 in	Surface Cover	**1D412**
125 A	12	0	3R	14.77 in	18.94 in	4 ½ in	Surface Cover	**1D401**
125 A	20	0	3R	14.77 in	22.5 in	4 ½ in	Surface Cover	**1D406**
200 A	18	0	3R	14.77 in	29.84 in	4 ½ in	Surface Cover	**1D403**
200 A	30	0	3R	14.77 in	29.84 in	4 ½ in	Surface Cover	**1D408**
225 A	42	0	3R	14.77 in	37.98 in	4 ½ in	Surface Cover	**1D410**
Square D QO - Main Lug, Convertible, Plug-On Neutral Load Centers								
Indoor, 1-Phase 120/240V AC								
125 A	24	0	1	14.25 in	20.91 in	4 ¼ in	Order Separately	**30YE80**
125 A	12	12	1	14.25 in	17.94 in	3 ¾ in	Order Separately	**60UM06**
125 A	12	12	1	14.25 in	17.94 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM07**
125 A	16	8	1	14.25 in	20.94 in	3 ¾ in	Order Separately	**60UM11**
125 A	20	4	1	14.25 in	17.94 in	3 ¾ in	Order Separately	**60UM14**
125 A	20	4	1	14.25 in	17.94 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM15**
125 A	32	6	1	14.25 in	26 in	3 ¾ in	Order Separately	**60UM26**
200 A	30	10	1	14.25 in	29.84 in	3 ¾ in	Order Separately	**30YE82**
200 A	12	12	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM08**
200 A	24	12	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM20**
200 A	30	10	1	14.25 in	29.88 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM24**
200 A	40	20	1	14.25 in	33.75 in	3 ¾ in	Order Separately	**60UM29**
225 A	42	0	1	14.25 in	37.98 in	3 ¾ in	Order Separately	**30YE84**
225 A	54	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**30YE86**
225 A	42	0	1	14.25 in	38 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM33**
225 A	54	18	1	14.25 in	39.38 in		Combination Flush/ Surface Cover	**60UM36**
225 A	54	18	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**60UM37**

Amps	No. of Spaces	Max. No. of Tandem Breakers	Enclosure NEMA Rating	W	H	D	Included Enclosure Cover	Item No.
Indoor, 3-Phase 208Y/120/240V AC								
100 A	27	0	1	14.25 in	29.84 in	3 ¾ in	Order Separately	**1D772**
125 A	30	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**2GNU7**
150 A	30	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**3XB89**
200 A	30	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**3XB90**
200 A	42	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**3XB91**
225 A	42	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**3XB92**
Outdoor, 3-Phase 208Y/120/240V AC								
100 A	27	0	3R	14.77 in	29.84 in	4 ½ in	Surface Cover	**1D769**
125 A	30	0	3R	14.77 in	39.38 in	4 ½ in	Surface Cover	**2GNW4**
150 A	30	0	3R	14.77 in	39.38 in	4 ½ in	Surface Cover	**2GNW7**
200 A	30	0	3R	14.77 in	39.38 in	4 ½ in	Surface Cover	**2GNX1**
200 A	42	0	3R	14.77 in	39.38 in	4 ½ in	Surface Cover	**2GNX6**
225 A	42	0	3R	14.77 in	39.38 in	4 ½ in	Surface Cover	**2GNX4**
Square D QO - Main Breaker Load Centers								
Outdoor, 1-Phase 120/240V AC								
125 A	6	6	3R	14.77 in	18.94 in	4 ½ in	Surface Cover	**5F706**
200 A	8	8	3R	14.77 in	29.84 in	4 ½ in	Surface Cover	**5F708**
Square D QO - Main Breaker, Convertible, Plug-On Neutral Load Centers								
Indoor, 1-Phase 120/240V AC								
100 A	24	0	1	14.25 in	20.91 in	4 ¼ in	Order Separately	**30YE81**
100 A	12	12	1	14.25 in	14.94 in	3 ¾ in	Order Separately	**60UM09**
100 A	12	12	1	14.25 in	14.94 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM10**
100 A	16	8	1	14.25 in	17.94 in	3 ¾ in	Order Separately	**60UM12**
100 A	16	8	1	14.25 in	17.94 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM13**
100 A	20	4	1	14.25 in	17.94 in	3 ¾ in	Order Separately	**60UM16**
100 A	20	4	1	14.25 in	17.94 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM17**
100 A	32	6	1	14.25 in	26 in	3 ¾ in	Order Separately	**60UM27**
125 A	24	10	1	14.25 in	20.94 in	3 ¾ in	Order Separately	**60UM21**
125 A	32	6	1	14.25 in	26 in	3 ¾ in	Order Separately	**60UM28**
150 A	20	10	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM18**
150 A	24	12	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM22**
150 A	42	0	1	14.25 in	38 in		Combination Flush/ Surface Cover	**60UM34**
200 A	30	0	1	14.25 in	29.84 in	3 ¾ in	Order Separately	**30YE83**
200 A	42	0	1	14.25 in	37.98 in	3 ¾ in	Order Separately	**30YE85**
200 A	54	0	1	14.25 in	39.38 in	3 ¾ in	Order Separately	**30YE87**
200 A	60	0	1	14.25 in	43.16 in	3 ¾ in	Flush Cover	**30YE88**
200 A	20	10	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM19**
200 A	24	12	1	14.25 in	29.88 in	3 ¾ in	Order Separately	**60UM23**
200 A	30	0	1	14.25 in	29.88 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM25**
200 A	40	20	1	14.25 in	33.75 in	3 ¾ in	Order Separately	**60UM30**
200 A	40	20	1	14.25 in	33.75 in	3 ¾ in	Combination Flush/ Surface Cover	**60UM31**
225 A	40	20	1	14.25 in	37.98 in	3 ¾ in	Order Separately	**60UM32**
225 A	42	10	1	14.25 in	37.98 in	3 ¾ in	Order Separately	**60UM35**

Type	FLUSH Item No.	SURFACE Item No.
Covers		
16 Spaces	**1D427**	**1D428**
24 Spaces	**1D433**	**1D434**
30 Spaces	**1D435**	**1D436**
42 Spaces	**1D441**	**1D442**
42 Spaces	**3XB93**	**3XB94**

Interior
4HGX5

Enclosure
1D687



Flush Cover
3TX77

SQUARE D by Schneider Electric

NQ/NF Panelboards

- Complete panelboard requires interior, enclosure, and flush or surface cover
- NQ panelboards are for use with QO (plug-in) or QOB (bolt-on) breakers; see page 197
- NF panelboards are for use with EDB (bolt-on) breakers; see page 197
- Tin-plated aluminum or silver-plated copper construction
- Use with ground bar kit 5B716 (not included)
- Use NQ adapter kits with Q and L frame breakers, available on Grainger.com®
- Use NF adapter kits with H and J frame breakers; see page 197

Preassembled main lugs save installation time. Convertible to main breaker. End-mounted split neutrals put neutral connections on the mains end of the panelboard, away from the high-density wiring area of the panel-side gutters. UL Listed.

Amps	No. of Spaces	Rec. Enclosure	Rec. Flush Cover	Rec. Surface Cover	ALUMINUM BUS Item No.	COPPER BUS Item No.
Panelboard Interior, 1-Phase, 120/240V AC						
100 A	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	4HGW8	4HGW9
100 A	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	4HGX1	4HGX2
225 A	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	4HGX3	4HGX4
225 A	42	1D700 for Main Breaker 6B429 for Main Lug	3TX91 for Main Breaker 4HHA1 for Main Lug	3TX84 for Main Lug 3TX92 for Main Breaker	4HGX5	—
225 A	42	1D700 for Main Breaker 6B429 for Main Lug	3TX91 for Main Breaker 4HHA1 for Main Lug	3TX82	—	4HGX6
400 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	4HGX7	4HGX8
400 A	42	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	4HGX9	4HGY1
600 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	—	4HGY2
600 A	42	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	—	4HGY3
Panelboard Interior, 3-Phase, 120/208 to 240V AC						
100 A	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	4HGY4	4HGY5
100 A	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	4HGY6	4HGY7
225 A	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	4HGY8	4HGY9
225 A	42	1D700 for Main Breaker 6B429 for Main Lug	3TX91 for Main Breaker 4HHA1 for Main Lug	3TX84 for Main Lug 3TX92 for Main Breaker	4HGZ1	—
225 A	42	1D700 for Main Breaker 6B429 for Main Lug	3TX91 for Main Breaker 4HHA1 for Main Lug	3TX84 for Main Lug 3TX86 for Main Breaker	—	4HGZ2
400 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	4HGZ3	4HGZ4
400 A	42	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	4HGZ5	4HGZ6
600 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	—	4HGZ7
600 A	42	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	—	4HGZ8
Panelboard Interior, 3-Phase, 277/480YV AC						
125 A	18	1D687 for Main Lug 6B429 for Main Breaker	3TX77 for Main Lug 3TX81 for Main Breaker	3TX78 for Main Lug 3TX82 for Main Breaker	3TZ01	3TZ02
125 A	30	1D691 for Main Lug 1D698 for Main Breaker	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	3TZ03	3TZ04
250 A	30	1D700 for Main Breaker 6B429 for Main Lug	4HGZ9 for Main Lug 4HHA1 for Main Breaker	3TX80 for Main Lug 3TX84 for Main Breaker	3TZ05	3TZ06
250 A	42	1D698 for Main Lug 22P067 for Main Breaker	3TX91 for Main Breaker 4HHA1 for Main Lug	3TX84 for Main Lug 3TX92 for Main Breaker	3TZ08	3TZ09
400 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	3TZ07	22P072
400 A	42	22P067 for Main Lug 22P068 for Main Breaker	3TX91 for Main Lug 3TX96 for Main Breaker	3TX92 for Main Lug 3TX97 for Main Breaker	22P074	—
600 A	30	12N640 for Main Breaker 1D700 for Main Lug	3TX94 for Main Breaker 4HHA2 for Main Lug	12N641 for Main Breaker 3TX88 for Main Lug	—	22P073
600 A	42	22P067 for Main Lug 22P068 for Main Breaker	3TX91 for Main Lug 3TX96 for Main Breaker	3TX92 for Main Lug 3TX97 for Main Breaker	—	22P075

L	W	D (in.)	Mfr. Model	Item No.
Panelboard Enclosures, NEMA 1, Indoor				
26 in	20 in	5¾	MH26	**1D687**
32 in	20 in	5¾	MH32	**1D691**
38 in	20 in	5¾	MH38	**6B429**
44 in	20 in	5¾	MH44	**1D698**
50 in	20 in	5¾	MH50	**1D700**
56 in	20 in	5¾	MH56	**22P067**
62 in	20 in	5¾	MH62	**12N640**
68 in	20 in	5¾	MH68	**22P068**

Description	Mfr. Model	FLUSH Item No.	SURFACE Item No.
Covers			
Nonventilated, 26"H x 23"W x 5¾"D	NC26	**3TX77**	**3TX78**
Nonventilated, 32"H x 20"W x 5¾"D	NC32	**4HGZ9**	**3TX80**
Nonventilated, 38"H x 20"W x 5¾"D	NC38	**3TX81**	**3TX82**
Nonventilated, 44"H x 20"W x 5¾"D	NC44	**4HHA1**	**3TX84**
Ventilated, 50"H x 20"W x 5¾"D	NC50V	**4HHA2**	**3TX88**
Ventilated, 56"H x 20"W x 5¾"D	NC56V	**3TX91**	**3TX92**
Ventilated, 62"H x 20"W x 5¾"D	NC62V	**3TX94**	**12N641**
Ventilated, 68"H x 20"W x 5¾"D	NC68V	**3TX96**	**3TX97**

Description	Mfr. Model	Item No.
Accessories		
NQ Neutral Bar, Copper, 100A	NQN1CU	**4HHA6**
NQ Neutral Bar, Copper, 225A	NQN2CU	**4HHA7**
NQ Neutral Bar, Copper, 600A	NQN6CU	**4HHA8**
NF Neutral Bar, Copper, 125A	NFN1CU	**22P077**
NF Neutral Bar, Copper, 225A	NFN2CU	**22P078**
NF Neutral Bar, Copper, 600A	NFN6CU	**22P079**
Ground Bar Kit, 27-Terminal, Aluminum	PK27GTA	**5B716**
NQ Filler Plate, Pkg. of 15	NQFP15	**4HHA9**
NF Filler Plate, Pkg. of 15	NFFP15	**22P076**
NQ Main Circuit Breaker Adapter Kit, 250A, H and J Frame Breakers	NQMB2HJ	**4HHA3**
NQ Main Circuit Breaker Adapter Kit, 250A, Q Frame Breakers	NQMB2Q	**4HHA4**
NQ Main Circuit Breaker Adapter Kit, 400A, L Frame Breakers	NQMB4LA	**4HHA5**
NF Main Circuit Breaker Adapter Kit, 150A, H Frame Breakers	N150MH	**22P069**
NF Main Circuit Breaker Adapter Kit, 250A, J Frame Breakers	N250MJ	**22P070**
NF Main Circuit Breaker Adapter Kit, 400A, L Frame Breakers	N400M	**22P071**

HomeLine® Load Centers and Circuit Breakers

SQUARE D by Schneider Electric

NEMA 3R
1D520

- 120/240VAC 1-phase
- 10K AIR with main lugs
- Split-branch neutral
- 3 ground bar-mounting locations
- UL Listed as HACR type

Amps	No. of Spaces	Max. No. of Tandem Breakers	Rec. Flush Cover	Rec. Surface Cover	Rec. Ground Bar Kit	NEMA 1 H	NEMA 1 W	NEMA 1 D	NEMA 1 Item No.	NEMA 3R H	NEMA 3R W	NEMA 3R D	NEMA 3R Item No.
Load Centers													
70 A	2	2	—	Included	5B717	9.3 in	4.8 in	3 ¼ in	**1D512**	9.38 in	4.88 in	4 in	**1D511**
100 A	6	6	Included	—	1D374	12.56 in	8.91 in	4 ¼ in	**1D519**	—	—	—	—
100 A	6	6	—	Included	1D374	12.56 in	8.91 in	4 ¼ in	**1D521**	12.64 in	8.91 in	4 ¼ in	**1D520**

1-Pole Standard
1D340

Amps	No. of Poles	AC Volt Rating	Item No.
Miniature Circuit Breaker, Standard			
15 A	1	120V AC	**1D340** *
15 A	2	120/240V AC	**1D350**
20 A	1	120V AC	**1D342** *
20 A	2	120/240V AC	**1D352**
25 A	1	120V AC	**2KDF4**
25 A	2	120/240V AC	**5B684**
30 A	1	120V AC	**1D344**
30 A	2	120/240V AC	**1D354**
35 A	2	120/240V AC	**5B685**
40 A	1	120V AC	**1D345**
40 A	2	120/240V AC	**1D356**
45 A	2	120/240V AC	**5B686**
50 A	1	120V AC	**1D346**
50 A	2	120/240V AC	**1D358**
60 A	2	120/240V AC	**1D359**
70 A	2	120/240V AC	**1D360**

Amps	No. of Poles	AC Volt Rating	Item No.
80 A	2	120/240V AC	**1D361**
90 A	2	120/240V AC	**1D362**
100 A	2	120/240V AC	**1D349**
110 A	2	120/240V AC	**2GNX8**
125 A	2	120/240V AC	**5B681**
150 A	2	120/240V AC	**5B682** ‡
200 A	2	120/240V AC	**22P066** ‡
Miniature Circuit Breaker, Arc Fault Circuit Interrupter			
15 A	1	120V AC	**3XE15**
15 A	1	120V AC	**12R452** †
20 A	1	120V AC	**3XE16**
20 A	1	120V AC	**12R453** †
Miniature Circuit Breaker, Ground Fault Circuit Interrupter (Class A - 5mA)			
15 A	1	120V AC	**1D341**
15 A	2	120/240V AC	**1D351**

Amps	No. of Poles	AC Volt Rating	Item No.
20 A	1	120V AC	**1D343**
20 A	2	120/240V AC	**1D353**
25 A	2	120/240V AC	**2GNY1**
30 A	2	120/240V AC	**1D355**
40 A	2	120/240V AC	**1D357**
50 A	2	120/240V AC	**2GNY3**
Miniature Circuit Breaker, Tandem			
15/20 A	1	120/240V AC	**5B709**
15/30 A	2	120/240V AC	**5B708**
15 A	1	120/240V AC	**1D364**
20/30 A	2	120/240V AC	**1D366**
20 A	1	120/240V AC	**1D365**
20 A	2	120/240V AC	**5B710**
Surge Protection Device			
5 A	2	—	**3XB85**

** UL Listed as SWD (switching duty) rated. † Combination arc fault interrupter senses both parallel and series arcing. ‡ Requires 4 spaces.*

LAL 3-Pole

Adjustable Molded Case Circuit Breakers

SQUARE D by Schneider Electric

Adjustment is set at the front of the breaker.

MOTOR CIRCUIT PROTECTORS (MAG-GARD®)

- Magnetic trip only—provides no overload protection
- For supplementary protection within equipment
- Trip setting tolerances are ±20% of nominal values

Provide adjustable instantaneous trip when used in combination with motor starters with overload relays.

Amps	AC Volt Rating	Low Amp Trip Setting	High Amp Trip Setting	2-POLE Item No.	3-POLE Item No.
Standard					
LAL Series, 42kA at 240V AC					
125 A	600V AC	625 A	1,250 A	**2GMD1**	—
150 A	600V AC	750 A	1,500 A	—	**5B912**
200 A	600V AC	1,000 A	2,000 A	**2GMD4**	**5B913**
225 A	600V AC	1,125 A	2,250 A	**2GMD5**	**5B914**
250 A	600V AC	1,250 A	2,500 A	**2GMD6**	**5B915**
300 A	600V AC	1,500 A	3,000 A	**5B910**	**5B916**
350 A	600V AC	1,750 A	3,500 A	**2GMD7**	**5B917**
400 A	600V AC	2,000 A	4,000 A	**2GMD8**	**5B918**
Q4 Series, 25kA at 120/240V AC					
250 A	240V AC	1,250 A	2,500 A	**2GMD9**	**5B962**
300 A	240V AC	1,500 A	3,000 A	**5B960**	**2KDF1**
350 A	240V AC	1,750 A	3,500 A	**2GME1**	**2KDF2**
400 A	240V AC	2,000 A	4,000 A	**5B961**	**5B965**
Motor Circuit Protector					
LAL Series, 42kA at 240V AC					
400 A	600V AC	1,250 A	2,500 A	—	**5B919**
400 A	600V AC	1,500 A	3,000 A	—	**2JWX5**
400 A	600V AC	1,750 A	3,500 A	—	**5B920**
400 A	600V AC	2,000 A	4,000 A	—	**5B921**

1D249

2DM13

2DH55

1D374

2DJ87

5B719

5B777

SQUARE D by Schneider Electric

Load Center and Panelboard Accessories

UL Listed.

Description	Mfr. Model	Item No.
Circuit Breaker and Panelboard Locking Devices		
Handle Clamp, Clip for Fixing QO and QOU Breaker Handle in "ON" or "OFF" Position (1-, 2-, and 3-Pole)	HLO1	**1H235**
Handle Lockoff, Clip for Fixing QO Breaker Handle in "ON" or "OFF" Position (1-Pole)	QO1LO	**5B735**
Handle Padlock Attachment, Fixed, For 1-Pole QO Breakers in "ON" or "OFF" Position - Fixed	QO1PA	**1D249**
Handle Padlock Attachment, Fixed, For 2- and 3-Pole QO Breakers in "ON" or "OFF" Position - Fixed	QO1PL	**1D384**
Handle Padlock Attachment, Loose, For 1-Pole QO Breakers in "ON" or "OFF" Position - Loose	QOHPL	**2DH09**
Handle Padlock Attachment, Loose, For 2- and 3-Pole QO Breakers in "ON" or "OFF" Position - Loose	QO1HPL	**1D248**
Interlock Attachment, For Use With Square D QO and QOB Miniature Circuit Breakers	QO2DTI	**2DH32**
Load Center Lock Kit, For Use With Square D QO and Homeline Load Centers	PK6FL	**1D373**
Panelboard Lock Kit, For Use With Square D NQOD Mono-Flat Fronts	PK4FL	**2DJ87**
Trim Clamps, For Use With Square D NQOD Panelboards	LP9501	**3KJ18**

Description	Mfr. Model	Item No.
Circuit Breaker and Panelboard Lugs		
Neutral Lug Kit, For Use With Homeline and QO Load Centers	LK70AN	**1D421**
Neutral Lug Kit, For Use With Homeline and QO Load Centers	LK100AN	**2DM13**
Circuit Breaker and Panelboard Mounting Accessories		
Mounting Base, 1-Pole, QO Plug In, 70 Amp	QOMB1	**2DH47**
Mounting Base, 2-Pole, QO Plug In, 70 Amp	QON24L70	**2DH55**
Mounting Base, 3-Pole, QOB Bolt On, 100 Amp	QON3B	**2DH58**
Retaining Kit - For QO612, L100 F/S, RB, DF/S, QO816L 100F/S, RB, DFS	PK2MB	**1D372**
Circuit Breaker Handle Ties		
Handle Tie, Converts Any 2 Adjacent 120/240VAC, Single-Pole QO Breakers to Independent Trip 2-Pole	QO1HT	**5B734**
Handle Tie, Converts Any 2 Adjacent 120/240VAC, Single-Pole Side-by-Side QOT Breakers to Independent Trip 2-Pole	QOTHT	**1D339**
Ground Bar Kits		
4-Terminal, for #14 to 4 Cu or #12 to 4 Al Wire	PK4GTA	**5B718**
7-Terminal, for #14 to 4 Cu or #12 to 4 Al Wire	PK7GTA	**1D374**
9-Terminal, Aluminum	PK9GTA	**1D375**
12-Terminal, Aluminum	PK12GTA	**5B711**
15-Terminal, Aluminum	PK15GTA	**1D369**
16-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK15GTAL	**5B713**
18-Terminal, Aluminum	PK18GTA	**1D370**
19-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK18GTAL	**5B714**
23-Terminal, Aluminum	PK23GTA	**1D371**
24-Terminal Plus 1 Terminal with a 1-4/0 Al/Cu Lug	PK23GTAL	**5B715**
Insulator Kit, For Use With Square D PK9GTA thru PK27GTA Ground Kits	PKGTAB	**5B719**
Load Center and Panelboard Accessories		
Fusible Switch, For Use With QMB Panelboards	QMB364W	**2DK43**
Miniature Circuit Breakers		
70 A Amps, For Use With Homeline Load Center, QO Load Center	QOM70VH	**5B777**
100 A Amps, For Use With Square D 125 Amp Single Phase Convertible Load Centers (QOM1 Frame Size)	QOM100VH	**1D332**
125 A Amps, For Use With Homeline Load Center, QO Load Center	QOM2125VH	**5B776**
125 A Amps, For Use With Homeline Load Center, QO Load Center	QOM125VH	**5B774**
150 A Amps, For Use With Homeline Load Center, QO Load Center	QOM2150VH	**1D333**
200 A Amps, For Use With Homeline Load Center, QO Load Center	QOM2200VH	**1D334**
Panelboard Covers, Enclosures and Kits		
Filler Plate, For Use With Square D HOM Load Centers	HOMFP	**1D525**
Filler Plate, For Use With Square D NF Panelboards	EFP	**3TW52**
Filler Plate, For Use With Square D NQOD Lightning and Appliance Panelboards	QOFP	**1D443**
Filler Plate, For Use With Square D QO Load Centers	QOM1FP	**1D445**
Load Center Cover, For Use With Square D HOM Load Centers	HOMC30UFL	**6PHC8**
Spray Paints		
Gray Touch-Up Paint, 16-oz. Aerosol Can	PK49SP	**2CR83**

Amps	Max. Wire Size	25kA IR @ 240V, 18.0kA IR @ 480V, 14kA IR @ 600V 2-Pole Mfr. Model	2-Pole Item No.	3-Pole Mfr. Model	3-Pole Item No.	65kA IR @ 240V, 35.0kA IR @ 480V, 18kA IR @ 600V 2-Pole Mfr. Model	2-Pole Item No.	3-Pole Mfr. Model	3-Pole Item No.
HDL/HGL Series, Replaces FAL Series									
15 A	3 AWG	HDL26015	**1MAJ5**	HDL36015	**1MAU2**	HGL26015	**1MAK8**	HGL36015	**1MAV7**
20 A	3 AWG	HDL26020	**1MAJ6**	HDL36020	**1MAU3**	HGL26020	**1MAK9**	HGL36020	**1MAV8**
25 A	3 AWG	HDL26025	**1MAJ7**	HDL36025	**1MAU4**	HGL26025	**1MAL1**	HGL36025	**1MAV9**
30 A	3 AWG	HDL26030	**1MAJ8**	HDL36030	**1MAU5**	HGL26030	**1MAL2**	HGL36030	**1MAW1**
35 A	3 AWG	—	—	HDL36035	**1MAU6**	—	—	HGL36035	**1MAW2**
40 A	3 AWG	HDL26040	**1MAJ9**	HDL36040	**1MAU7**	HGL26040	**1MAL3**	HGL36040	**1MAW3**
45 A	3 AWG	—	—	HDL36045	**1MAU8**	—	—	HGL36045	**1MAW4**
50 A	3 AWG	HDL26050	**1MAK1**	HDL36050	**1MAU9**	HGL26050	**1MAL4**	HGL36050	**1MAW5**
60 A	3 AWG	HDL26060	**1MAK2**	HDL36060	**1MAJ4**	HGL26060	**1MAL5**	HGL36060	**1MAW6**
70 A	3 AWG	HDL26070	**1MAK3**	HDL36070	**1MAV1**	HGL26070	**1MAL6**	HGL36070	**1MAW7**
80 A	3 AWG	HDL26080	**1MAK4**	HDL36080	**1MAV2**	HGL26080	**1MAL7**	HGL36080	**1MAW8**
90 A	3 AWG	—	—	HDL36090	**1MAV3**	HGL26090	**2JWN5**	HGL36090	**1MAW9**
100 A	3 AWG	HDL26100	**1MAK5**	HDL36100	**1MAV4**	HGL26100	**1MAL8**	HGL36100	**1MAX1**
125 A	3 AWG	HDL26125	**1MAK6**	HDL36125	**1MAV5**	HGL26125	**1MAL9**	HGL36125	**1MAX2**
150 A	3 AWG	HDL26150	**1MAK7**	HDL36150	**1MAV6**	HGL26150	**1MAU1**	HGL36150	**1MAX3**
JDL/JGL Series, Replaces KAL Series									
150 A	4/0 AWG	JDL26150	**1MAX4**	—	—	—	—	—	—
150 A	4 AWG	—	—	JDL36150	**1MAZ5**	JGL26150	**1MAX9**	JGL36150	**1MBB1**
175 A	4/0 AWG	JDL26175	**1MAX5**	—	—	—	—	—	—
175 A	4 AWG	—	—	JDL36175	**1MAZ6**	JGL26175	**1MAZ1**	JGL36175	**1MBB2**
200 A	300 MCM	JDL26200	**1MAX6**	—	—	—	—	—	—
200 A	350 MCM	—	—	JDL36200	**1MAZ7**	JGL26200	**1MAZ2**	JGL36200	**1MBB3**
225 A	300 MCM	JDL26225	**1MAX7**	—	—	—	—	—	—
225 A	350 MCM	—	—	JDL36225	**1MAZ8**	JGL26225	**1MAZ3**	JGL36225	**1MBB4**
250 A	300 MCM	JDL26250	**1MAX8**	—	—	—	—	—	—
250 A	350 MCM	—	—	JDL36250	**1MAZ9**	JGL26250	**1MAZ4**	JGL36250	**1MBB5**

H-Frame 2-Pole

J-Frame 3-Pole

SQUARE D by Schneider Electric

H- and J-Frame Circuit Breakers

- 600VAC, 250VDC max.
- Lug in/lug out
- Mounting height: 3.4"
- Box lug terminals

H-frame: 6.4"L; J-frame: 7.5"L. Accessories are available to customize H- and J-frame breakers for individual needs; call 1-800-GRAINGER (472-4643). On Grainger.com®, search by Grainger Item Number and click to "Optional Accessories."

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
QOU Series, Standard, 240V Max., 10kA at 120/240V AC IR				
10 A	2 AWG	**5B966**	**5B982**	**5B996**
15 A	2 AWG	**5B968**	**5B984**	**5B998**
20 A	2 AWG	**5B970**	**5B985**	**5B999**
25 A	2 AWG	**5B972**	**5B986**	**5U993**
30 A	2 AWG	**5B973**	**5B987**	**5U994**
35 A	2 AWG	**5B974**	**5B988**	**5U995**
40 A	2 AWG	**5B975**	**5B989**	**5U996**
45 A	2 AWG	—	**5B990**	**5U997**
50 A	2 AWG	**5B977**	**5B991**	**5U998**
60 A	2 AWG	**5B978**	**5B992**	**5U999**
70 A	2 AWG	**5B979**	—	—
70 A	2/0 AWG	—	**5B993**	**6B008**
80 A	2/0 AWG	**2JWX2**	**5B994**	**6B009**
90 A	2/0 AWG	—	**2JXK4**	**6B010**
100 A	2/0 AWG	**5B967**	**5B983**	**5B997**
125 A	2/0 AWG	—	**2JWZ3**	—
QOU Series, High Magnetic, 240V Max., 10kA at 120/240V AC IR				
15 A	2 AWG	**5B969**	—	—
20 A	2 AWG	**5B971**	—	—
QOU Series, VH (High Interrupting Capacity), 240V Max., 22kA at 120/240V AC IR				
15 A	2 AWG	**2JWJ4**	**2JXA6**	—
20 A	2 AWG	**2JWK3**	**2JXC7**	—
25 A	2 AWG	**2JWL2**	—	—
30 A	2 AWG	**2JWN1**	**2JXE9**	—
50 A	2 AWG	**2JWR2**	**2JXH1**	—
60 A	2 AWG	**2JWT2**	**2JXH9**	—
QOU Series, VH (High Interrupting Capacity), 240V Max., 22kA at 240V AC IR				
20 A	2 AWG	—	—	**2JXN1**
30 A	2 AWG	—	—	**2JXP4**

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
QOU Series, Shunt Trip, Type 1021 (120VAC Control), Normally Open, 240V Max., 10kA at 120/240V AC IR				
10 A	2 AWG	—	**2JWY6**	—
15 A	2 AWG	—	—	**2JXL7**
20 A	2 AWG	**2JWK7**	**2JXD3**	—
30 A	2 AWG	**2JWN6**	—	—
50 A	2 AWG	—	**2JXH5**	**2JXR1**
60 A	2 AWG	—	**2JXJ4**	**2JXR4**
100 A	2/0 AWG	—	—	**2JXL1**
125 A	2/0 AWG	—	**2JWZ9**	—
QDL Series, Standard, 240V Max., 25kA at 240V AC IR				
70 A	300 MCM	—	**2JWR9**	**2JXC8**
80 A	300 MCM	—	**2JWT5**	**2JXD4**
90 A	300 MCM	—	**2JWU1**	**2JXD9**
100 A	300 MCM	—	**2JWU7**	**2JXE5**
110 A	300 MCM	—	**2JWX4**	**2JXF1**
125 A	300 MCM	—	**2JWY1**	**2JXF6**
150 A	300 MCM	—	**2JWY7**	**2JXG2**
175 A	300 MCM	—	**2JWZ4**	**2JXG7**
200 A	300 MCM	—	**2JXA1**	**2JXH2**
225 A	300 MCM	—	**2JXA7**	**2JXH6**
250 A	300 MCM	—	**2JXC3**	**2JXJ1**
QBL Series, Standard, 240V Max., 10kA at 240V AC IR				
125 A	300 MCM	—	**3XB95**	**3XE10**
150 A	300 MCM	—	**3XB96**	**3XE11**
175 A	300 MCM	—	**3XB97**	**3XE12**
200 A	300 MCM	—	**3XB98**	**3XE13**
225 A	300 MCM	—	**3XB99**	**3XE14**

Description	Mfr. Model	Item No.
Square D QOU Circuit Breaker Circuit Breaker Accessories (10 to 100A Only)		
2-Pole Mounting Foot	QOUMF2B	**2DN37**
Enclosures for 2 or 3 Pole, 100 to 225A QBL and DQL Breakers		
Indoor, NEMA 1, Surface Mount	Q23225NS	**4B257**
Indoor, NEMA 1, Flush Mount	Q23225NF	**2JXF8**
Outdoor, NEMA 3R, Surface Mount	Q23225NRB	**4B256**

1-Pole QOU

SQUARE D by Schneider Electric

QOU, QDL, and QBL Circuit Breakers

QOU

- UL Listed as HACR type (except 10A)
- 48VDC rated at 5K AIR

Reversible line and load lugs for flush- or surface-mount wiring on 10 to 70A units. 35mm DIN/EN 50022 mountable. 4.05"L (4.45"L on 80 to 125A) x 0.75"W per pole x 2.98"D.

QDL

250A Q-frame. 2-pole models are 6.47"L x 3"W x 3.93"D; 3-pole models are 6.47"L x 4.5"W x 3.93"D.

QBL

- AC magnetic trip setting: hold 1400A; trip 2400A

250A Q-frame. 2-pole models are 6.44"L x 3"W x 3.16"D; 3-pole models are 6.44"L x 4.5"W x 3.16"D.

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Standard, 18kA at 120/240V AC IR				
15 A	6 AWG	**3TW12**	—	—
20 A	6 AWG	**3TW13**	—	—
25 A	6 AWG	**2JWD1**	—	—
30 A	6 AWG	**3TW15**	—	—
35 A	2 AWG	**2JWK8**	—	—
40 A	2 AWG	**3TW17**	—	—
45 A	2 AWG	**2JWL3**	—	—
50 A	2 AWG	**2JWE4**	—	—
60 A	2 AWG	**3TW20**	—	—
70 A	2 AWG	**2JWF2**	—	—
Standard, 18kA at 277/480V AC IR				
15 A	6 AWG	—	**3TW22**	**3TW37**
20 A	6 AWG	—	**3TW23**	**3TW38**
25 A	6 AWG	—	**2JWG2**	**3TW39**
30 A	6 AWG	—	**3TW25**	**3TW40**
35 A	2 AWG	—	**2JWL7**	**3TW41**
40 A	2 AWG	—	**3TW27**	**3TW42**
45 A	2 AWG	—	**2KDF5**	**3TW43**
50 A	2 AWG	—	**3TW29**	**3TW44**
60 A	2 AWG	—	**3TW30**	**3TW45**
70 A	2 AWG	—	**3TW31**	**3TW46**
80 A	2 AWG	—	**3TW32**	**3TW47**
90 A	2 AWG	—	**2JWJ5**	**3TW48**
100 A	2 AWG	—	**3TW34**	**3TW49**

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
110 A	2 AWG	—	**3TW35**	**3TW50**
125 A	2 AWG	—	**2JWK4**	**3TW51**
EPD (Equipment Protection Device), 30mA Trip, 18kA at 120/240V AC IR				
15 A	4 AWG (Al), 6 AWG (Cu)	**2JWC2**	—	—
20 A	4 AWG (Al), 6 AWG (Cu)	**2JWC6**	—	—
30 A	4 AWG (Al), 6 AWG (Cu)	**2JWD5**	—	—
40 A	4 AWG (Al), 6 AWG (Cu)	**2JWD9**	—	—
50 A	2 AWG (Cu), 4 AWG (Al)	**2JWE6**	—	—
Shunt Trip, Type 1021 (120VAC Control), Normally Open, 18kA at 120/240V AC IR				
20 A	6 AWG	**2JWC8**	—	—
40 A	2 AWG	**2JWE2**	—	—
Shunt Trip, Type 1021 (120VAC Control), Normally Open, 18kA at 277/480V AC IR				
15 A	6 AWG	—	**2JWF8**	**2JWN7**
20 A	6 AWG	—	**2JWN2**	**2JWP3**
25 A	6 AWG	—	—	**2JWP7**
30 A	6 AWG	—	—	**2JWR3**
40 A	2 AWG	—	**2JWG8**	**2JWR8**
50 A	2 AWG	—	**2JWH2**	**2JWT3**
60 A	2 AWG	—	—	**2JWT9**
70 A	2 AWG	**2JWF5**	**2JWH6**	**2JWU6**
80 A	2 AWG	—	—	**2JWX3**
90 A	2 AWG	—	—	**2JWX9**
100 A	2 AWG	—	—	**2JWY5**

1-Pole Standard

SQUARE D by Schneider Electric

EDB (Bolt-On) Circuit Breakers

- UL Listed as HACR type
- 480/277VAC

Used with NF panelboards.

THQL (Plug-In) and THQB (Bolt-On) Circuit Breakers

Standard Plug-In 1-Pole

Standard Bolt-On 2-Pole

Standard Bolt-On 3-Pole

Switching Neutral Plug-In 2-Pole

- 1-pole 120VAC; 2-pole 120/240VAC; 3-pole 240VAC
- Screw clamp connection up to 30A; box lug connection 35A and higher

Bolt-on breakers are for use in 120/240V AQ lighting panels. Plug-in breakers are for use in AQL lighting panels and Power Mark Gold load centers.

Amps	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
Standard, 10kA at 120/240V AC Max. AIR Rating				
15 A	THQL	3HXH4	3HXK5	3AGG8
15 A	THQB	3HXR3	3HXU2	3HXW2
20 A	THQL	3HXH8	3HXK8	3AGG9
20 A	THQB	3HXR6	3HXU5	3HXW3
25 A	THQL	3HXJ3	3HXL2	3HXN1
25 A	THQB	3HXR9	3HXU8	3HXW4
30 A	THQL	3HXJ4	3HXL3	3HXN2
30 A	THQB	3HXT1	3HXU9	3HXW5
35 A	THQL	3HXJ7	3HXL6	3HXN3
35 A	THQB	3HXT4	3HXV3	3HXW6
40 A	THQL	3HXJ8	3HXL7	3HXN4
40 A	THQB	3HXT5	3HXV4	3HXW7
45 A	THQL	3HXJ9	3HXL8	3HXN5
45 A	THQB	3HXT6	3HXV5	3HXW8
50 A	THQL	3HXK1	3HXL9	3HXN6
50 A	THQB	3HXT7	3HXV6	3HXW9
60 A	THQL	3HXK2	3AGG1	3HXN7
60 A	THQB	3HXT8	3HXV7	3HXX1
70 A	THQL	3HXK3	3AGG2	3HXN8
70 A	THQB	3HXT9	3HXV8	3HXX2
80 A	THQL	—	3AGG3	3HXN9
80 A	THQB	—	3HXV9	3HXX3
90 A	THQL	—	3AGG4	3HXP1
90 A	THQB	—	3HXW1	3HXX4
100 A	THQL	—	3HXK4	3HXP2
100 A	THQB	—	3HXU1	3HXX5
High Interrupting Capacity, 22kA at 120/240V AC Max. AIR Rating				
20 A	THHQL	3HXG2	3HXG6	3HXG9
20 A	THHQB	3HXP3	3HXP6	3HXP9
30 A	THHQL	3HXG3	3HXG7	3HXH1
30 A	THHQB	3HXP4	3HXP7	3HXR1
60 A	THHQL	3HXG4	3HXG8	3HXH2

Amps	Series	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
60 A	THHQB	3HXP5	3HXP8	3HXR2
100 A	THHQL	—	3HXG5	3HXH3
HID (High Intensity Discharge Lighting Loads), 10kA at 120/240V AC Max. AIR Rating				
15 A	THQL	3HXH6	3HXK7	—
15 A	THQB	3HXR5	3HXU4	—
20 A	THQL	3HXJ1	3HXL1	—
20 A	THQB	3HXR8	3HXU7	—
30 A	THQL	3HXJ6	3HXL5	—
30 A	THQB	3HXT3	3HXV2	—
Switching Neutral (Thermal Magnetic Pole and Nonautomatic Pole for Switching Neutral), 10kA at 120/240V AC Max. AIR Rating				
15 A	THQL	—	3AGG5	—
20 A	THQL	—	3AGG6	—
30 A	THQL	—	3AGG7	—
High Magnetic (High Inrush Loads), 10kA at 120/240V AC Max. AIR Rating				
15 A	THQL	3HXH7	—	—
20 A	THQL	3HXJ2	—	—
Arc Fault Circuit Interrupter, 10kA at 120/240V AC Max. AIR Rating				
15 A	THQB	32HY01	—	—
15 A	THQL	32HY05	—	—
20 A	THQB	32HY02	—	—
20 A	THQL	32HY06	—	—
Accessories				
Bolt-On Mounting Base		—	—	3HWP3
Main Breaker Retainer, RK1		—	—	32WR76
Main Breaker Retainer, RK2		—	—	32WR77
Main Breaker Retainer, RK3		—	—	32WR78
Main Breaker Retainer, RK4		—	—	32WR79
Surge Arrester		—	—	32WR80

THQL Load Centers

32WR97

Designed with sturdy copper bus and galvanized box to increase durability and reliability. Reduce total cost through faster, easier installation. Enhanced application flexibility and reduced inventory requirements. Side mounted main breaker allows top or bottom feed. Maintain optimum wire-bending space. Load center accessories available, see Grainger.com®.

Amps	No. of Spaces	NEMA 1 INDOOR H	W	D	Mfr. Model	Item No.	NEMA 3R OUTDOOR H	W	D	Mfr. Model	Item No.
1-Phase, 120/240V AC, Tin Plated Copper Bus											
Convertible, Main Lug											
125 A	8	12.36 in	12.59 in	3 23/64 in	TLM812FCUD	32WR94 *	11.34 in	11.75 in	4 15/16 in	TLM812RCU	32WR95
125 A	8	11.33 in	11.58 in	3 23/64 in	TLM812SCUD	32WR96 †	—	—	—	—	—
125 A	24	26.05 in	15.36 in	3 7/8 in	TLM2412CCU	32WR88	30.19 in	14.86 in	5 7/32 in	TLM2412RCU	32WR89
200 A	40	40.55 in	15.36 in	3 7/8 in	TLM4020CCU	32WR90	43.22 in	14.86 in	6 13/32 in	TLM4020RCU	32WR91
225 A	42	44.8 in	15.36 in	3 7/8 in	TLM4222CCU	32WR92	43.22 in	14.86 in	6 13/32 in	TLM4222RCU	32WR93
Main Circuit Breaker											
125 A	24	26.05 in	15.36 in	3 7/8 in	TM2412CCU	32WR99	30.19 in	14.86 in	5 7/32 in	TM2412RCU	32WT01
200 A	40	40.55 in	15.36 in	3 7/8 in	TM4020CCU	32WT04	43.22 in	14.84 in	6 13/32 in	TM4020RCU	32WT05
225 A	42	44.8 in	15.36 in	3 7/8 in	TM4222CCU	32WT06	43.22 in	14.84 in	6 13/32 in	TM4222RCU	32WT07
3-Phase, 120/208V AC, Aluminum Bus											
100 A	18	24.38 in	15.36 in	3 7/8 in	TM18410C	32WR97	27 in	13.25 in	5 1/2 in	TM18410R	32WR98
200 A	30	36.8 in	15.36 in	3 7/8 in	TM30420C	32WT02	36.25 in	12.88 in	5 1/2 in	TM30420R	32WT03
3-Phase, 208Y/120V AC, Aluminum Bus											
225 A	42	44.81 in	15.36 in	4 3/4 in	TM42422C	32WT08	41.34 in	13.25 in	6 41/64 in	TM42422R	32WT09
Main Lug											
125 A	12	20.38 in	15.36 in	3 7/8 in	TL12412C	32WR81	21.75 in	13.25 in	5 33/64 in	TL12412R	32WR82
225 A	30	44.81 in	15.36 in	4 3/4 in	TL30422C	32WR83	—	—	—	—	—
225 A	42	44.81 in	15.36 in	4 3/4 in	TL42422C	32WR84	41.34 in	13.25 in	6 41/64 in	TL42422R	32WR85

** Flush enclosure. † Surface enclosure.*

TEY (Bolt-On) Circuit Breakers

1-Pole

2-Pole

3-Pole

- 1-pole 277VAC; 2- and 3-pole 277/480VAC
- 14K AIR
- Screw clamp connection up to 30A; box lug connection 35A and higher

Molded-case breakers for use in 1" pole spacings in 480/277V AE lighting panels.

Amps	Max. Wire Size	1-POLE Item No.	2-POLE Item No.	3-POLE Item No.
15 A	10 AWG	3HXA9	3HXD4	3HXE8
20 A	10 AWG	3HXC1	3HXD5	3HXE9
25 A	10 AWG	3HXC2	3HXD6	3HXF1
30 A	10 AWG	3HXC3	3HXD7	3HXF2
35 A	4 AWG	3HXC4	3HXD8	3HXF3
40 A	4 AWG	3HXC5	3HXD9	3HXF4
45 A	4 AWG	3HXC6	3HXE1	3HXF5
50 A	4 AWG	3HXC7	3HXE2	3HXF6
60 A	4 AWG	3HXC8	3HXE3	3HXF7
70 A	1/0 AWG	3HXC9	3HXE4	3HXF8
80 A	1/0 AWG	3HXD1	3HXE5	3HXF9
90 A	1/0 AWG	3HXD2	3HXE6	3HXG1
100 A	1/0 AWG	3HXA8	3HXD3	3HXE7
Bolt-On Mounting Base		—	—	3HWP3

Plug In and Bolt On Circuit Breakers

Amps	Phase	Max. AIR Rating	Series	Item No.
GE Main Breakers, THQMV Series				
2-Pole, 120/240V AC, Standard				
100 A	1	22kA at 240V AC	THQMV	**6AXU6**
125 A	1	22kA at 240V AC	THQMV	**6AXU7**
150 A	1	22kA at 240V AC	THQMV	**6AXU8**
175 A	1	22kA at 240V AC	THQMV	**6AXU9**
200 A	1	22kA at 240V AC	THQMV	**6AXV0**
225 A	1	22kA at 240V AC	THQMV	**6AXV1**
TED-, TEHD-Frame GE Molded Case Circuit Breakers				
2 A	1	14kA at 277V AC	THED	**6AXL7**
15 A	1	14kA at 277V AC	THED	**6AXL6**
15 A	1	14kA at 277V AC	THED	**6AXN0**
15 A	1	14kA at 120/240/277V AC	TED	**6CPN7**
15 A	1	18kA at 120/240/277/480V AC	TED	**6CPR0**
20 A	1	14kA at 277V AC	THED	**6AXN1**
20 A	3	14kA at 277V AC	THED	**6AXN5**
20 A	1	14kA at 120/240/277V AC	TED	**6CPN8**
20 A	1	18kA at 120/240/277/480V AC	TED	**6CPR1**
20 A	3	18kA at 120/240/277/480V AC	TED	**6CPT7**
25 A	1	14kA at 277V AC	THED	**6AXL8**
25 A	1	14kA at 277V AC	THED	**6AXN2**
25 A	3	14kA at 277V AC	THED	**6AXN6**
25 A	1	14kA at 120/240/277V AC	TED	**6CPN9**
25 A	1	18kA at 120/240/277/480V AC	TED	**6CPR2**
25 A	3	18kA at 120/240/277/480V AC	TED	**6CPT8**
30 A	1	14kA at 277V AC	THED	**6AXL9**
30 A	1	14kA at 277V AC	THED	**6AXN3**
30 A	3	14kA at 277V AC	THED	**6AXN7**
30 A	1	14kA at 120/240/277V AC	TED	**6CPP0**
30 A	1	18kA at 120/240/277/480V AC	TED	**6CPR3**
30 A	3	18kA at 120/240/277/480V AC	TED	**6CPT9**
35 A	1	14kA at 120/240/277V AC	TED	**6CPP1**
35 A	1	18kA at 120/240/277/480V AC	TED	**6CPR4**
35 A	3	18kA at 120/240/277/480V AC	TED	**6CPV0**
40 A	1	14kA at 120/240/277V AC	TED	**6CPP2**
40 A	1	18kA at 120/240/277/480V AC	TED	**6CPR5**
40 A	3	18kA at 120/240/277/480V AC	TED	**6CPV1**
45 A	1	14kA at 120/240/277V AC	TED	**6CPP3**
45 A	1	18kA at 120/240/277/480V AC	TED	**6CPR6**
45 A	3	18kA at 120/240/277/480V AC	TED	**6AXH5**
50 A	1	14kA at 120/240/277V AC	TED	**6CPP4**
50 A	1	18kA at 120/240/277/480V AC	TED	**6CPR7**
50 A	3	18kA at 120/240/277/480V AC	TED	**6AXH6**
60 A	1	14kA at 120/240/277V AC	TED	**6CPP5**
60 A	1	18kA at 120/240/277/480V AC	TED	**6CPR8**
60 A	3	18kA at 120/240/277/480V AC	TED	**6AXH7**
70 A	1	14kA at 120/240/277V AC	TED	**6CPP6**
70 A	1	18kA at 120/240/277/480V AC	TED	**6CPR9**
70 A	3	18kA at 120/240/277/480V AC	TED	**6AXH8**
80 A	1	14kA at 120/240/277V AC	TED	**6CPP7**
80 A	1	18kA at 120/240/277/480V AC	TED	**6CPT0**
80 A	3	18kA at 120/240/277/480V AC	TED	**6AXH9**
90 A	1	14kA at 120/240/277V AC	TED	**6CPP8**
90 A	1	18kA at 120/240/277/480V AC	TED	**6CPT1**
90 A	3	18kA at 120/240/277/480V AC	TED	**6AXJ0**
100 A	1	14kA at 120/240/277V AC	TED	**6CPP9**
100 A	1	18kA at 120/240/277/480V AC	TED	**6CPT2**
100 A	3	18kA at 120/240/277/480V AC	TED	**6AXJ1**
110 A	1	18kA at 120/240/277/480V AC	TED	**6CPT3**
110 A	3	18kA at 120/240/277/480V AC	TED	**6AXJ2**
125 A	1	18kA at 120/240/277/480V AC	TED	**6CPT4**
125 A	3	18kA at 120/240/277/480V AC	TED	**6AXJ3**
150 A	1	18kA at 120/240/277/480V AC	TED	**6CPT5**
150 A	3	18kA at 120/240/277/480V AC	TED	**6AXJ4**
THQC & THHQC Series, Unit-Mount GE Miniature Circuit Breakers				
1-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	THQC	**6AXR8**
15 A	1	22kA at 120/240V AC	THHQC	**6AXN8**
20 A	1	10kA at 120/240V AC	THQC	**6AXR9**
20 A	1	22kA at 120/240V AC	THHQC	**6AXN9**
25 A	1	10kA at 120/240V AC	THQC	**6AXT0**
25 A	1	22kA at 120/240V AC	THHQC	**6AXP0**
30 A	1	10kA at 120/240V AC	THQC	**6AXT1**
30 A	1	22kA at 120/240V AC	THHQC	**6AXP1**
35 A	1	10kA at 120/240V AC	THQC	**6AXT2**
35 A	1	22kA at 120/240V AC	THHQC	**6AXP2**
40 A	1	10kA at 120/240V AC	THQC	**6AXT3**
40 A	1	22kA at 120/240V AC	THHQC	**6AXP3**
45 A	1	10kA at 120/240V AC	THQC	**6AXT4**
45 A	1	22kA at 120/240V AC	THHQC	**6AXP4**
50 A	1	10kA at 120/240V AC	THQC	**6AXT5**
50 A	1	22kA at 120/240V AC	THHQC	**6AXP5**
60 A	1	10kA at 120/240V AC	THQC	**6AXT6**
60 A	1	22kA at 120/240V AC	THHQC	**6AXP6**
2-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	THQC	**6AXT7**
15 A	1	22kA at 120/240V AC	THHQC	**6AXP7**
20 A	1	10kA at 120/240V AC	THQC	**6AXT8**
20 A	1	22kA at 120/240V AC	THHQC	**6AXP8**
25 A	1	10kA at 120/240V AC	THQC	**6AXT9**
30 A	1	10kA at 120/240V AC	THQC	**6AXU0**
30 A	1	22kA at 120/240V AC	THHQC	**6AXP9**
35 A	1	10kA at 120/240V AC	THQC	**6AXU1**
35 A	1	22kA at 120/240V AC	THHQC	**6AXR0**
40 A	1	10kA at 120/240V AC	THQC	**6AXU2**
40 A	1	22kA at 120/240V AC	THHQC	**6AXR1**
45 A	1	10kA at 120/240V AC	THQC	**6AXU3**
45 A	1	22kA at 120/240V AC	THHQC	**6AXR2**
50 A	1	10kA at 120/240V AC	THQC	**6AXU4**
50 A	1	22kA at 120/240V AC	THHQC	**6AXR3**
60 A	1	10kA at 120/240V AC	THQC	**6AXU5**
60 A	1	22kA at 120/240V AC	THHQC	**6AXR4**
THQP, THQL & THHQL Series, Plug-In GE Miniature Circuit Breakers				
1-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	THQP	**6AXV2**
20 A	1	10kA at 120/240V AC	THQP	**6AXV3**
25 A	1	10kA at 120/240V AC	THQP	**6AXV4**
30 A	1	10kA at 120/240V AC	THQP	**6AXV5**
35 A	1	10kA at 120/240V AC	THQP	**6AXV6**
40 A	1	10kA at 120/240V AC	THQP	**6AXV7**
45 A	1	10kA at 120/240V AC	THQP	**6AXV8**
50 A	1	10kA at 120/240V AC	THQP	**6AXV9**
2-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	THQP	**6AXW0**
20 A	1	10kA at 120/240V AC	THQP	**6AXW1**
25 A	1	10kA at 120/240V AC	THQP	**6AXW2**
30 A	1	10kA at 120/240V AC	THQP	**6AXW3**
35 A	1	10kA at 120/240V AC	THQP	**6AXW4**
40 A	1	10kA at 120/240V AC	THQP	**6AXW5**
45 A	1	10kA at 120/240V AC	THQP	**6AXW6**
50 A	1	10kA at 120/240V AC	THQP	**6AXW7**

6CPN7

6CNU5

6CYV8

32WR68

32WR71

Circuit Breaker Accessories

For Use With	Voltage	Amps	Mfr. Model	Item No.
Lug Kit				
GE Spectra Series SK800 Circuit Breakers	600V AC	20 A	FCALK12	**6CNU4**
GE Spectra Series SK800 Circuit Breakers	600V AC	60 A	FCALK13	**6CNU5**
GE Spectra Series SK800 Circuit Breakers	600V AC	100 A	FCALK14	**6CNU6**
Panel Mounting Kit				
GE TED, THED4 and SE Circuit Breakers	—	—	ASPTED3P	**6CYV8**
Replacement Trip Coil				
GE Spectra Series Circuit Breakers	—	15 A, 1,200 A	SACTUATOR	**3HWP2**
Raintight Hub Closing Cap				
GE PowerMark Gold and Plus Load Centers Circuit Breakers	—	—	TCCP	**32WR64**
Ground Kit				
PowerMark Gold and Plus Load Centers	—	225 A	TGK24	**32WR68**
PowerMark Gold and Plus Load Centers	—	225 A	TGK42	**32WR71**
Screw Hardware Kit				
GE PowerMark Gold and Plus Load Centers Circuit Breakers	—	—	THDWRKIT	**32WR75**
Neutral and Ground Lug Kit				
PowerMark Gold and Plus Load Centers	120/240V AC	125 A	TLK20	**32WR86**
Filler Plate				
PowerMark Gold and Plus Load Centers	—	—	TQLFP1	**32WT13**
Handle Tie				
GE TEYD, TEYH and TEYL Circuit Breakers	—	125 A	TEYXHT2	**32HY45**
GE TEYD, TEYH and TEYL Circuit Breakers	—	125 A	TEYXHT3	**32HY46**

32WR75

32WR86

32WT13

32HY45

SIEMENS

QP (Plug-In) and BL (Bolt-On) Circuit Breakers for Siemens Load Centers

- Fixed lug
- UL Listed and CSA Certified

These miniature circuit breakers are compatible with Siemens panelboards and load centers and interrupt the flow of current when low-level faults are detected. They prevent damage caused by overcurrents and short circuits in residential, light commercial, and industrial applications where sensitive circuit protection is needed.

- NOTE: QP and BL breakers are UL Approved replacements for ITE breakers.

Amps	Phase	Max. AIR Rating	Series	Item No.
B Series, Bolt-On Siemens Miniature Circuit Breakers				
1-Pole, 120/240V AC, Shunt Trip				
15 A	1	10kA at 120V AC	BL	**6EUY5**
	1	22kA at 120V AC	BL	**6EUY9**
	1	65kA at 120V AC	BL	**6EUZ1**
20 A	1	10kA at 120V AC	BL	**6EUZ2**
	1	22kA at 120V AC	BL	**6EUZ6**
	1	65kA at 120V AC	BL	**6EUZ8**
25 A	1	10kA at 120V AC	BL	**6EVA0**
30 A	1	10kA at 120/240V AC	BL	**6EVA5**
	1	22kA at 120V AC	BL	**6EVA7**
	1	65kA at 120V AC	BL	**6EVA9**
35 A	1	10kA at 120V AC	BL	**6EVC1**
40 A	1	10kA at 120V AC	BL	**6EVC4**
45 A	1	10kA at 120V AC	BL	**6EVD0**
50 A	1	10kA at 120V AC	BL	**6EVD3**
	1	22kA at 120V AC	BL	**6EVD5**
	1	65kA at 120V AC	BL	**6EVD7**
60 A	1	10kA at 120V AC	BL	**6EVE0**
70 A	1	10kA at 120V AC	BL	**6EVE4**
1-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	BL	**3CMX8**
	1	22kA at 120/240V AC	BL	**6EUY8**
	1	65kA at 120V AC	BL	**6EUZ0**
20 A	1	10kA at 120/240V AC	BL	**3CMY1**
	1	22kA at 120/240V AC	BL	**6EUZ5**
25 A	1	10kA at 120/240V AC	BL	**6EUZ9**
	1	22kA at 120/240V AC	BL	**6EVA1**
	1	65kA at 120V AC	BL	**6EVA3**
30 A	1	10kA at 120/240V AC	BL	**3CMY4**
	1	22kA at 120/240V AC	BL	**6EVA6**
	1	65kA at 120V AC	BL	**6EVA8**
35 A	1	10kA at 120/240V AC	BL	**6EVC0**
	1	65kA at 120V AC	BL	**6EVC3**
40 A	1	10kA at 120/240V AC	BL	**3CMY5**
	1	22kA at 120/240V AC	BL	**6EVC5**
	1	65kA at 120V AC	BL	**6EVC7**
45 A	1	10kA at 120/240V AC	BL	**6EVC9**
50 A	1	10kA at 120/240V AC	BL	**3CMY6**
	1	22kA at 120/240V AC	BL	**6EVD4**
	1	65kA at 120V AC	BL	**6EVD6**
55 A	1	10kA at 120/240V AC	BL	**6EVD8**
60 A	1	10kA at 120/240V AC	BL	**3CMY7**
	1	22kA at 120/240V AC	BL	**6EVE1**
	1	65kA at 120V AC	BL	**6EVE2**
70 A	1	10kA at 120/240V AC	BL	**6EVE3**
	1	22kA at 120/240V AC	BL	**6EVE5**
1-Pole, 120V AC, Ground Fault Circuit Interrupter				
15 A	1	10kA at 120V AC	BF	**3HZN4**
	1	22kA at 120V AC	BFH	**6FMG1**
20 A	1	10kA at 120V AC	BF	**3HZN5**
	1	22kA at 120V AC	BFH	**6FMG2**
25 A	1	10kA at 120V AC	BF	**6FMG4**
30 A	1	10kA at 120V AC	BF	**3HZN6**
1-Pole, 120V AC, Ground Fault Equipment Protection				
15 A	1	10kA at 120/240V AC	BLE	**3HZL4**
	1	22kA at 120V AC	BLE	**6FMF2**
20 A	1	10kA at 120V AC	BLE	**3HZL5**
	1	22kA at 120V AC	BLE	**6FMF3**
30 A	1	10kA at 120V AC	BLE	**3HZL6**
2-Pole, 120/240V AC, Ground Fault Circuit Interrupter				
15 A	1	10kA at 120/240V AC	BF	**3HZN7**
20 A	1	10kA at 120/240V AC	BF	**3HZN8**
30 A	1	10kA at 120/240V AC	BF	**3HZN9**
	1	22kA at 120/240V AC	BFH	**6FMG9**
40 A	1	10kA at 120/240V AC	BF	**3HZP1**
	1	22kA at 120/240V AC	BFH	**6FMH0**
50 A	1	10kA at 120/240V AC	BF	**3HZP2**
	1	22kA at 120/240V AC	BFH	**6FMH1**
60 A	1	10kA at 120/240V AC	BF	**3HZP3**
	1	22kA at 120/240V AC	BFH	**6FMH2**
2-Pole, 120/240V AC, Ground Fault Equipment Protection				
15 A	1	10kA at 120/240V AC	BLE	**3HZL7**
	1	22kA at 120/240V AC	BLE	**6FMF5**
20 A	1	10kA at 120/240V AC	BLE	**3HZL8**
	1	22kA at 120/240V AC	BLE	**6FMF6**
30 A	1	10kA at 120/240V AC	BLE	**3HZL9**
	1	22kA at 120/240V AC	BLE	**6FMF7**
40 A	1	10kA at 120/240V AC	BLE	**3AGJ1**
	1	22kA at 120/240V AC	BLE	**6FMF8**
50 A	1	10kA at 120/240V AC	BLE	**3AGJ2**
	1	22kA at 120/240V AC	BLE	**6FMF9**
60 A	1	10kA at 120/240V AC	BLE	**3AGJ3**
	1	22kA at 120/240V AC	BLE	**6FMG0**
2-Pole, 120/240V AC, Shunt Trip				
15 A	1	10kA at 120/240V AC	BL	**6EVF9**
	1	65kA at 120/240V AC	BL	**6EVG4**
20 A	1	10kA at 120/240V AC	BL	**6EVG6**
	1	22kA at 120/240V AC	BL	**6EVH0**
	1	65kA at 120/240V AC	BL	**6EVH2**
25 A	1	10kA at 120/240V AC	BL	**6EVH6**
30 A	1	10kA at 120/240V AC	BL	**6EVJ2**
	1	22kA at 120/240V AC	BL	**6EVJ4**
	1	65kA at 120/240V AC	BL	**6EVJ6**
35 A	1	10kA at 120/240V AC	BL	**6EVK0**
40 A	1	10kA at 120/240V AC	BL	**6EVK5**
	1	22kA at 120/240V AC	BL	**6EVK7**
	1	65kA at 120/240V AC	BL	**6EVK9**
45 A	1	10kA at 120/240V AC	BL	**6EVL3**
	1	22kA at 120/240V AC	BL	**6EVL5**
50 A	1	10kA at 120/240V AC	BL	**6EVL8**
	1	22kA at 120/240V AC	BL	**6EVN0**
	1	65kA at 120/240V AC	BL	**6EVN2**
60 A	1	10kA at 120/240V AC	BL	**6EVN5**
	1	22kA at 120/240V AC	BL	**6EVN7**
	1	65kA at 120/240V AC	BL	**6EVN9**
70 A	1	10kA at 120/240V AC	BL	**6EVP3**
	1	22kA at 120/240V AC	BL	**6EVP5**
	1	65kA at 120/240V AC	BL	**6EVP7**
80 A	1	10kA at 120/240V AC	BL	**6EVR0**
	1	65kA at 120/240V AC	BL	**6EVR4**
90 A	1	10kA at 120/240V AC	BL	**6EVR7**
	1	22kA at 120/240V AC	BL	**6EVR9**
	1	65kA at 120/240V AC	BL	**6EVT1**
100 A	1	10kA at 120/240V AC	BL	**6EVE6**
	1	22kA at 120/240V AC	BL	**6EVE8**
	1	65kA at 120/240V AC	BL	**6EVF0**
2-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120/240V AC	BL	**3CMZ3**
	1	22kA at 120/240V AC	BL	**6EVG2**
	1	65kA at 120/240V AC	BL	**6EVG3**
20 A	1	10kA at 120/240V AC	BL	**3CMZ4**
	1	22kA at 120/240V AC	BL	**6EVG9**
	1	65kA at 120/240V AC	BL	**6EVH1**
25 A	1	10kA at 120/240V AC	BL	**6EVH5**
	1	22kA at 120/240V AC	BL	**6EVH7**
30 A	1	10kA at 120/240V AC	BL	**3CMZ6**
	1	22kA at 120/240V AC	BL	**6EVJ3**
	1	65kA at 120/240V AC	BL	**6EVJ5**
35 A	1	10kA at 120/240V AC	BL	**6EVJ9**
	1	22kA at 120/240V AC	BL	**6EVK1**
	1	65kA at 120/240V AC	BL	**6EVK3**
40 A	1	10kA at 120/240V AC	BL	**3CMZ8**
	1	22kA at 120/240V AC	BL	**6EVK6**
	1	65kA at 120/240V AC	BL	**6EVK8**
45 A	1	10kA at 120/240V AC	BL	**6EVL2**
	1	22kA at 120/240V AC	BL	**6EVL4**
	1	65kA at 120/240V AC	BL	**6EVL6**
50 A	1	10kA at 120/240V AC	BL	**3CNA1**
	1	22kA at 120/240V AC	BL	**6EVL9**
	1	65kA at 120/240V AC	BL	**6EVN1**
60 A	1	10kA at 120/240V AC	BL	**3CNA2**
	1	22kA at 120/240V AC	BL	**6EVN6**
	1	65kA at 120/240V AC	BL	**6EVN8**
70 A	1	10kA at 120/240V AC	BL	**6EVP2**
	1	22kA at 120/240V AC	BL	**6EVP4**
	1	65kA at 120/240V AC	BL	**6EVP6**
80 A	1	10kA at 120/240V AC	BL	**6EVP9**
	1	22kA at 120/240V AC	BL	**6EVR1**
	1	65kA at 120/240V AC	BL	**6EVR3**
90 A	1	10kA at 120/240V AC	BL	**6EVR6**
	1	22kA at 120/240V AC	BL	**6EVR8**
	1	65kA at 120/240V AC	BL	**6EVT0**
100 A	1	10kA at 120/240V AC	BL	**3CMZ1**
	1	22kA at 120/240V AC	BL	**6EVE7**
	1	65kA at 120/240V AC	BL	**6EVE9**
110 A	1	10kA at 120/240V AC	BL	**6EVF2**
	1	22kA at 120/240V AC	BL	**6EVF3**
125 A	1	10kA at 120/240V AC	BL	**6EVF5**
	1	22kA at 120/240V AC	BL	**6EVF7**
	1	65kA at 120/240V AC	BL	**6EVF8**
3-Pole, 120/240V AC, Shunt Trip				
15 A	3	10kA at 240V AC	BL	**6EVT8**
	3	22kA at 240V AC	BL	**6EVU0**
	3	65kA at 240V AC	BL	**6EVU2**
20 A	3	10kA at 240V AC	BL	**6EVU3**
	3	22kA at 240V AC	BL	**6EVU5**
	3	65kA at 240V AC	BL	**6EVU7**
25 A	3	10kA at 240V AC	BL	**6EVU9**
	3	22kA at 240V AC	BL	**6EVX1**
30 A	3	10kA at 240V AC	BL	**6EVX4**
	3	22kA at 240V AC	BL	**6EVX6**
	3	65kA at 240V AC	BL	**6EVX8**
35 A	3	10kA at 240V AC	BL	**6EVY0**
	3	22kA at 120/240V AC	BL	**6EVY2**
	3	65kA at 240V AC	BL	**6EVY4**
40 A	3	10kA at 240V AC	BL	**6EVY5**
	3	22kA at 120/240V AC	BL	**6EVY7**
45 A	3	10kA at 240V AC	BL	**6FMA9**
	3	22kA at 240V AC	BL	**6FMC1**
50 A	3	10kA at 240V AC	BL	**6FMC4**
	3	22kA at 240V AC	BL	**6FMC6**
	3	65kA at 240V AC	BL	**6FMC8**
60 A	3	10kA at 240V AC	BL	**6FMC9**
	3	22kA at 240V AC	BL	**6FMD1**
	3	65kA at 240V AC	BL	**6FMD3**
70 A	3	10kA at 240V AC	BL	**6FMD5**
	3	22kA at 240V AC	BL	**6FMD7**
80 A	3	22kA at 240V AC	BL	**6FME3**
	3	65kA at 240V AC	BL	**6FME5**
90 A	3	10kA at 240V AC	BL	**6FME7**
	3	22kA at 240V AC	BL	**6FME9**
	3	65kA at 240V AC	BL	**6FMF1**
100 A	3	10kA at 240V AC	BL	**6EVT3**
	3	22kA at 240V AC	BL	**6EVT5**
	3	65kA at 240V AC	BL	**6EVT7**
3-Pole, 240V AC, Standard				
15 A	3	10kA at 240V AC	BL	**3CNA6**
	3	22kA at 240V AC	BL	**6EVT9**
	3	65kA at 240V AC	BL	**6EVU1**
20 A	3	10kA at 240V AC	BL	**3CNA7**
	3	22kA at 240V AC	BL	**6EVU4**
	3	65kA at 240V AC	BL	**6EVU6**
25 A	3	10kA at 240V AC	BL	**6EVU8**
	3	22kA at 240V AC	BL	**6EVX0**
	3	65kA at 240V AC	BL	**6EVX2**
30 A	3	10 kA	B	**3CNA8**
	3	22kA at 240V AC	BL	**6EVX5**
	3	65kA at 240V AC	BL	**6EVX7**
35 A	3	10kA at 240V AC	BL	**6EVX9**
	3	22kA at 120/240V AC	BL	**6EVY1**
	3	65kA at 120/240V AC	BL	**6EVY3**
40 A	3	10kA at 240V AC	BL	**3CNA9**
	3	22kA at 120/240V AC	BL	**6EVY6**
	3	65kA at 120/240V AC	BL	**6FMA6**
45 A	3	10kA at 240V AC	BL	**6FMA8**
	3	22kA at 240V AC	BL	**6FMC0**
	3	65kA at 240V AC	BL	**6FMC2**
50 A	3	10kA at 240V AC	BL	**3CNC1**
	3	22kA at 240V AC	BL	**6FMC5**
	3	65kA at 240V AC	BL	**6FMC7**
60 A	3	10kA at 240V AC	BL	**3CNC2**
	3	22kA at 240V AC	BL	**6FMD0**
	3	65kA at 240V AC	BL	**6FMD2**
70 A	3	10kA at 240V AC	BL	**6FMD4**
	3	22kA at 240V AC	BL	**6FMD6**
	3	65kA at 240V AC	BL	**6FMD8**
80 A	3	10kA at 240V AC	BL	**6FME0**
	3	22kA at 240V AC	BL	**6FME2**
	3	65kA at 240V AC	BL	**6FME4**
90 A	3	10kA at 240V AC	BL	**6FME6**
	3	22kA at 240V AC	BL	**6FME8**
	3	65kA at 240V AC	BL	**6FMF0**
100 A	3	10kA at 240V AC	BL	**3CNA4**
	3	22kA at 240V AC	BL	**6EVT4**
	3	65kA at 240V AC	BL	**6EVT6**
Q Series, Plug-In Siemens Miniature Circuit Breakers				
1-Pole, 120V AC, Combination Arc Fault Circuit Interrupter				
15 A	1	10kA at 120V AC	QA	**34AN31**
20 A	1	10kA at 120V AC	QA	**34AN33**
1-Pole, 120V AC, Duplex				
15/15 A	1	10kA at 120V AC	Q	**6DNR5**
15/20 A	1	10kA at 120V AC	Q	**6DNR7**
20/20 A	1	10kA at 120V AC	Q	**6DNR8**
1-Pole, 120V AC, Duplex, Non CTL				
15/15 A	1	10kA at 120V AC	Q	**6DNR6**
20/20 A	1	10kA at 120V AC	Q	**6DNR9**
1-Pole, 120V AC, Ground Fault Circuit Interrupter (Class A - 5mA)				
15 A	1	10kA at 120V AC	QF	**3CNL3**
20 A	1	10kA at 120V AC	QF	**3CNL4**
30 A	1	10kA at 120V AC	QF	**3CNL5**
1-Pole, 120V AC, Standard				
15 A	1	10kA at 120V AC	Q	**3CNE5**
20 A	1	10kA at 120V AC	Q	**3CNE8**
30 A	1	10kA at 120V AC	Q	**3CNF3**
40 A	1	10kA at 120V AC	Q	**3CNF6**
50 A	1	10kA at 120V AC	Q	**3CNF7**
2-Pole, 120/240V AC, Ground Fault Circuit Interrupter (Class A - 5mA)				
20 A	1	10kA at 120V AC	QF	**3CNL7**
40 A	1	10kA at 120V AC	QF	**3CNL9**
50 A	1	10kA at 120/240V AC	QF	**3AFL1**
60 A	1	10kA at 120/240V AC	QF	**3AFL2**
2-Pole, 120/240V AC, High Intensity Discharge				
15 A	1	10kA at 120V AC	Q	**3CNG9**
20 A	1	10kA at 120V AC	Q	**3CNH4**
30 A	1	10kA at 120V AC	Q	**3CNH8**
2-Pole, 120/240V AC, Standard				
15 A	1	10kA at 120V AC	Q	**3CNG7**
20 A	1	10kA at 120V AC	Q	**3CNH1**
25 A	1	10kA at 120V AC	Q	**6DNR0**
30 A	1	10kA at 120V AC	Q	**3CNH6**
40 A	1	10kA at 120V AC	Q	**3CNH9**
50 A	1	10kA at 120V AC	Q	**3CNJ1**
60 A	1	10kA at 120V AC	Q	**3CNJ2**
70 A	1	10kA at 120V AC	Q	**6DNR2**
80 A	1	10kA at 120V AC	Q	**6DNR3**
90 A	1	10kA at 120V AC	Q	**6DNR4**
100 A	1	10kA at 120V AC	Q	**3CNG5**
125 A	1	10kA at 120V AC	Q	**6DNR1**
3-Pole, 240V AC, Standard				
15 A	3	10kA at 120V AC	QP	**3CNJ7**
20 A	3	10kA at 120V AC	Q	**3CNJ8**
30 A	3	10kA at 120V AC	Q	**3CNK1**
40 A	3	10kA at 120V AC	Q	**3CNK4**
50 A	3	10kA at 120V AC	Q	**3CNK6**
60 A	3	10kA at 120V AC	QP	**3CNK7**
100 A	3	10kA at 120V AC	QP	**3CNJ6**

BQ (Bolt-On) Circuit Breakers

SIEMENS

These BQ and BQH series miniature circuit breakers are bolted into place in panelboards, so they're more stable than plug-in breakers. They interrupt currents when low-level faults are detected in the circuit. They have a lug orientation to allow for straight-in wiring through bus bars, which eliminates the need to pigtail wires and helps organize the panelboard.

Amps	Phase	Max. AIR Rating	Series	Item No.
BQ & BQH Series, Bolt-On Siemens Miniature Circuit Breakers				
1-Pole, 120V AC, High Interrupting Capacity				
15 A	1	22kA at 120V AC	BQH	**6FMH4**
20 A	1	22kA at 120V AC	BQH	**3HZW4**
30 A	1	22kA at 120V AC	BQH	**3HZW5**
40 A	1	22kA at 120V AC	BQH	**3HZW6**
50 A	1	22kA at 120V AC	BQH	**3HZW7**
60 A	1	22kA at 120V AC	BQH	**3HZW8**
70 A	1	22kA at 120V AC	BQH	**3HZW9**
1-Pole, 120V AC, Shunt Trip				
15 A	1	10kA at 120V AC	BQ	**3HZZ3**
20 A	1	10kA at 120V AC	BQ	**3HZZ4**
20 A	1	22kA at 120V AC	BQH	**6FMH5**
30 A	1	10kA at 120V AC	BQ	**3HZZ5**
30 A	1	22kA at 120V AC	BQH	**6FMH8**
40 A	1	10kA at 120V AC	BQ	**3HZZ6**
1-Pole, 120V AC, Standard				
10 A	1	10kA at 120V AC	BQ	**6FMH3**
15 A	1	10kA at 120V AC	BQ	**3HZT2**
20 A	1	10kA at 120V AC	BQ	**3HZT3**
25 A	1	10kA at 120V AC	BQ	**6FMH6**
30 A	1	10kA at 120V AC	BQ	**3HZT4**
35 A	1	10kA at 120V AC	BQ	**6FMH9**
40 A	1	10kA at 120V AC	BQ	**3HZT5**
45 A	1	10kA at 120V AC	BQ	**6FMJ1**
50 A	1	10kA at 120V AC	BQ	**3HZT6**
55 A	1	10kA at 120V AC	BQ	**6FMJ2**
60 A	1	10kA at 120V AC	BQ	**3HZT7**
70 A	1	10kA at 120V AC	BQ	**6FMJ4**
2-Pole, 120/240V AC, High Interrupting Capacity				
20 A	1	22kA at 120/240V AC	BQH	**3HZX2**
30 A	1	22kA at 120/240V AC	BQH	**3HZX3**
40 A	1	22kA at 120/240V AC	BQH	**3HZX4**
50 A	1	22kA at 120/240V AC	BQH	**3HZX5**
60 A	1	22kA at 120/240V AC	BQH	**3HZX6**
70 A	1	22kA at 120/240V AC	BQH	**3HZX7**
80 A	1	22kA at 120/240V AC	BQH	**6FMK9**
100 A	1	22kA at 120/240V AC	BQH	**3HZY1**
2-Pole, 120/240V AC, Shunt Trip				
15 A	1	10kA at 120/240V AC	BQ	**3CMA4**
20 A	1	10kA at 120/240V AC	BQ	**3CMA5**
20 A	1	22kA at 120/240V AC	BQH	**6FMJ7**
25 A	1	10kA at 120/240V AC	BQ	**6FMJ9**
30 A	1	10kA at 120/240V AC	BQ	**3CMA6**
30 A	1	22kA at 120/240V AC	BQH	**6FMK1**
40 A	1	10kA at 120/240V AC	BQ	**3CMA7**
50 A	1	10kA at 120/240V AC	BQ	**3CMA8**
60 A	1	10kA at 120/240V AC	BQ	**3CMA9**
70 A	1	10kA at 120/240V AC	BQ	**6FMK6**
80 A	1	10kA at 120/240V AC	BQ	**6FMK8**
90 A	1	10kA at 120/240V AC	BQ	**6FML1**
100 A	1	10kA at 120/240V AC	BQ	**3CMC3**
100 A	1	22kA at 120/240V AC	BQH	**6FML2**
125 A	1	10kA at 120/240V AC	BQ	**6FML5**
2-Pole, 120/240V AC, Standard				
10 A	1	10kA at 120/240V AC	BQ	**6FMJ5**
15 A	1	10kA at 120/240V AC	BQ	**3HZU1**
20 A	1	10kA at 120/240V AC	BQ	**3HZU2**
25 A	1	10kA at 120/240V AC	BQ	**6FMJ8**
30 A	1	10kA at 120/240V AC	BQ	**3HZU3**
35 A	1	10kA at 120/240V AC	BQ	**6FMK2**
40 A	1	10kA at 120/240V AC	BQ	**3HZU4**
45 A	1	10kA at 120/240V AC	BQ	**6FMK4**
50 A	1	10kA at 120/240V AC	BQ	**3HZU5**
60 A	1	10kA at 120/240V AC	BQ	**3HZU6**
70 A	1	10kA at 120/240V AC	BQ	**6FMK5**
80 A	1	10kA at 120/240V AC	BQ	**6FMK7**
90 A	1	10kA at 120/240V AC	BQ	**6FML0**
100 A	1	10kA at 120/240V AC	BQ	**3HZV1**
125 A	1	10kA at 120/240V AC	BQ	**6FML4**
2-Pole, 240V AC, Standard				
15 A	1	10kA at 240V AC	BQH	**6FML7**
20 A	1	10kA at 240V AC	BQH	**6FML8**
30 A	1	10kA at 240V AC	BQH	**6FMN0**
3-Pole, 240V AC, High Interrupting Capacity				
15 A	3	22kA at 240V AC	BQH	**6FMN8**
20 A	3	22kA at 240V AC	BQH	**3HZY3**
25 A	3	22kA at 240V AC	BQH	**6FMP2**
30 A	3	22kA at 240V AC	BQH	**3HZY4**
35 A	3	22kA at 240V AC	BQH	**6FMP4**
40 A	3	22kA at 240V AC	BQH	**3HZY5**
45 A	3	22kA at 240V AC	BQH	**6FMP8**
50 A	3	22kA at 240V AC	BQH	**3HZY6**
60 A	3	22kA at 240V AC	BQH	**3HZY7**
70 A	3	22kA at 240V AC	BQH	**3HZY8**
80 A	3	22kA at 240V AC	BQH	**6FMR6**
90 A	3	22kA at 240V AC	BQH	**6FMT0**
100 A	3	22kA at 240V AC	BQH	**3HZZ2**
3-Pole, 240V AC, Shunt Trip				
15 A	3	10kA at 240V AC	BQ	**3CLZ2**
15 A	3	22kA at 240V AC	BQH	**6FMN9**
20 A	3	10kA at 240V AC	BQ	**3CLZ3**
20 A	3	22kA at 240V AC	BQH	**6FMP0**
30 A	3	10kA at 240V AC	BQ	**3CLZ4**
40 A	3	10kA at 240V AC	BQ	**3CLZ5**
45 A	3	10kA at 240V AC	BQ	**6FMP7**
50 A	3	10kA at 240V AC	BQ	**3CLZ6**
50 A	3	22kA at 240V AC	BQH	**6FMP9**
60 A	3	10kA at 240V AC	BQ	**3CLZ7**
60 A	3	22kA at 240V AC	BQH	**6FMR0**
70 A	3	10kA at 240V AC	BQ	**6FMR2**
70 A	3	22kA at 240V AC	BQH	**6FMR3**
80 A	3	10kA at 240V AC	BQ	**6FMR5**
80 A	3	22kA at 240V AC	BQH	**6FMR7**
90 A	3	10kA at 240V AC	BQ	**6FMR9**
100 A	3	10kA at 240V AC	BQ	**3CMA1**
3-Pole, 240V AC, Standard				
15 A	3	10kA at 240V AC	BQ	**3HZV2**
20 A	3	10kA at 240V AC	BQ	**3HZV3**
25 A	3	10kA at 240V AC	BQ	**6FMP1**
30 A	3	10kA at 240V AC	BQ	**3HZV4**
40 A	3	10kA at 240V AC	BQ	**3HZV5**
45 A	3	10kA at 240V AC	BQ	**6FMP6**
50 A	3	10kA at 240V AC	BQ	**3HZV6**
60 A	3	10kA at 240V AC	BQ	**3HZV7**
70 A	3	10kA at 240V AC	BQ	**6FMR1**
80 A	3	10kA at 240V AC	BQ	**6FMR4**
90 A	3	10kA at 240V AC	BQ	**6FMR8**
100 A	3	10kA at 240V AC	BQ	**3HZW2**

BQ 1-Pole Shunt Trip 3HZZ3

BQ 1-Pole 6FMH3

SIEMENS

BQD (Bolt-On) Circuit Breakers

Amps	Phase	Max. AIR Rating	Item No.
BQD Series, Bolt-On Siemens Miniature Circuit Breakers			
1-Pole, 277V AC, Standard			
15 A	1	14kA at 277V AC	**6FMT3**
20 A	1	14kA at 277V AC	**6FMT4**
25 A	1	14kA at 277V AC	**6FMT5**
30 A	1	14kA at 277V AC	**6FMT6**
35 A	1	14kA at 277V AC	**6FMT7**
40 A	1	14kA at 277V AC	**6FMT8**
45 A	1	14kA at 277V AC	**6FMT9**
50 A	1	14kA at 277V AC	**6FMU0**
60 A	1	14kA at 277V AC	**6FMU1**
70 A	1	14kA at 277V AC	**6FMU2**
80 A	1	14kA at 277V AC	**6FMU3**
90 A	1	14kA at 277V AC	**6FMU4**
100 A	1	14kA at 277V AC	**6FMT2**
2-Pole, 480V AC, Standard			
15 A	1	14kA at 480V AC	**6FMU6**
20 A	1	14kA at 480V AC	**6FMU7**
25 A	1	14kA at 480V AC	**6FMU8**
30 A	1	14kA at 480V AC	**6FMU9**
35 A	1	14kA at 480V AC	**6FMV0**
40 A	1	14kA at 480V AC	**6FMV1**
45 A	1	14kA at 480V AC	**6FMV2**
50 A	1	14kA at 480V AC	**6FMV3**
60 A	1	14kA at 480V AC	**6FMV4**
70 A	1	14kA at 480V AC	**6FMV5**
80 A	1	14kA at 480V AC	**6FMV6**
90 A	1	14kA at 480V AC	**6FMV7**
100 A	1	14kA at 480V AC	**6FMU5**
3-Pole, 480V AC, Standard			
15 A	3	14kA at 480V AC	**6FMV9**
20 A	3	14kA at 480V AC	**6FMW0**
25 A	3	14kA at 480V AC	**6FMW1**
30 A	3	14kA at 480V AC	**6FMW2**
35 A	3	14kA at 480V AC	**6FMW3**
40 A	3	14kA at 480V AC	**6FMW4**
45 A	3	14kA at 480V AC	**6FMW5**
50 A	3	14kA at 480V AC	**6FMW6**
60 A	3	14kA at 480V AC	**6FMW7**
70 A	3	14kA at 480V AC	**6FMW8**
80 A	3	14kA at 480V AC	**6FMW9**
90 A	3	14kA at 480V AC	**6FMX0**
100 A	3	14kA at 480V AC	**6FMV8**

BQD 3-Pole 6FMV8

Amps	Max. Wire Size (AWG)	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Mfr. Model	2-POLE Item No.	3-POLE Mfr. Model	3-POLE Item No.
ED, 120/240VAC, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	ED21B015	**6FMY1**	—	—	—	—
20 A	10	—	—	—	—	ED23B020	**6FNA1**
25 A	10	ED21B025	**6FMY2**	ED22B025	**6FMZ1**	ED23B025	**6FNA2**
30 A	4	ED21B030	**6FMY3**	—	—	ED23B030	**6FNA3**
35 A	4	ED21B035	**6FMY4**	ED22B035	**6FMZ2**	—	—
40 A	4	ED21B040	**6FMY5**	ED22B040	**6FMZ3**	ED23B040	**6FNA4**
45 A	4	—	—	ED22B045	**6FMZ4**	ED23B045	**6FNA5**
50 A	4	ED21B050	**6FMY6**	ED22B050	**6FMZ5**	ED23B050	**6FNA6**
60 A	4	ED21B060	**6FMY7**	ED22B060	**6FMZ6**	ED23B060	**6FNA7**
70 A	1/0	ED21B070	**6FMY8**	ED22B070	**6FMZ7**	ED23B070	**6FNA8**
80 A	1/0	ED21B080	**6FMY9**	ED22B080	**6FMZ8**	ED23B080	**6FNA9**
90 A	1/0	—	—	ED22B090	**6FMZ9**	ED23B090	**6FNC0**
100 A	1/0	ED21B100	**6FMZ0**	ED22B100	**6FNA0**	ED23B100	**6FNC1**
ED, 277/480VAC, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	ED41B015	**3CMG4**	ED42B015	**3CMH5**	ED43B015	**3CMJ6**
20 A	10	ED41B020	**3CMG5**	ED42B020	**3CMH6**	ED43B020	**3CMJ7**
25 A	10	ED41B025	**6FNC2**	—	—	ED43B025	**6FNC9**
30 A	4	ED41B030	**3CMG6**	ED42B030	**3CMH7**	ED43B030	**3CMJ8**
35 A	4	ED41B035	**6FNC3**	—	—	ED43B035	**6FND0**
40 A	4	ED41B040	**3CMG7**	ED42B040	**3CMH8**	ED43B040	**3CMJ9**
45 A	4	ED41B045	**6FNC4**	ED42B045	**6FNC6**	ED43B045	**6FND1**
50 A	4	ED41B050	**3CMG8**	ED42B050	**3CMH9**	ED43B050	**3CMK1**
60 A	4	ED41B060	**3CMG9**	ED42B060	**3CMJ1**	ED43B060	**3CMK2**
70 A	1/0	ED41B070	**3CMH1**	ED42B070	**3CMJ2**	ED43B070	**3CMK3**
80 A	1/0	ED41B080	**3CMH2**	ED42B080	**3CMJ3**	ED43B080	**3CMK4**
90 A	1/0	ED41B090	**3CMH3**	ED42B090	**3CMJ4**	ED43B090	**3CMK5**
100 A	1/0	ED41B100	**3CMH4**	ED42B100	**3CMJ5**	ED43B100	**3CMK6**
110 A	2/0	—	—	ED42B110	**6FNC7**	ED43B110	**6FND2**
125 A	2/0	—	—	ED42B125	**6FNC8**	ED43B125	**6FND3**
HED, For Use With SB Switchboards, Sentron Panelboards							
15 A	10	HED41B015	**3AFK9**	HED42B015	**3CMP1**	HED43B015	**3CMR2**
20 A	10	HED41B020	**3CMN1**	HED42B020	**3CMP2**	HED43B020	**3CMR3**
25 A	10	HED41B025	**6FNH0**	—	—	HED43B025	**6GNC2**
30 A	4	HED41B030	**3CMN2**	HED42B030	**3CMP3**	HED43B030	**3CMR4**
35 A	4	HED41B035	**6FNH1**	HED42B035	**6FNH3**	HED43B035	**6GNC3**
40 A	4	HED41B040	**3CMN3**	HED42B040	**3CMP4**	HED43B040	**3CMR5**
45 A	4	HED41B045	**6FNH2**	HED42B045	**6FNH4**	HED43B045	**6GNC4**
50 A	4	HED41B050	**3CMN4**	HED42B050	**3CMP5**	HED43B050	**3CMR6**
60 A	4	HED41B060	**3CMN5**	HED42B060	**3CMP6**	HED43B060	**3CMR7**
70 A	1/0	HED41B070	**3CMN6**	HED42B070	**3CMP7**	HED43B070	**3CMR8**
80 A	1/0	HED41B080	**3CMN7**	HED42B080	**3CMP8**	HED43B080	**3CMR9**
90 A	1/0	HED41B090	**3CMN8**	HED42B090	**3CMP9**	HED43B090	**3CMT1**
100 A	1/0	HED41B100	**3CMN9**	HED42B100	**3CMR1**	HED43B100	**3CMT2**
110 A	—	—	—	HED42B110	**6GNC0**	HED43B110	**6GNC5**
125 A	—	—	—	HED42B125	**6GNC1**	HED43B125	**6GNC6**
FXD, For Use With SB Switchboards Without Lugs, Sentron Panelboards							
100 A	—	—	—	—	—	FXD63B100	**6FNE5**
125 A	—	—	—	FXD62B125	**6FNE1**	FXD63B125	**6FNE6**
150 A	—	—	—	FXD62B150	**6FNE2**	FXD63B150	**6FNE7**
175 A	—	—	—	FXD62B175	**6FNE3**	FXD63B175	**6FNE8**
200 A	—	—	—	—	—	FXD63B200	**6FNE9**
250 A	—	—	—	FXD62B250	**6FNE4**	FXD63B250	**6FNF1**
JXD, For Use With SB Switchboards Without Lugs, Sentron Panelboards							
200 A	500 kcmil	—	—	JXD22B200	**6GNF8**	JXD23B200	**6GNG4**
225 A	500 kcmil	—	—	JXD22B225	**6GNF9**	JXD23B225	**6GNG5**
250 A	500 kcmil	—	—	JXD22B250	**6GNG0**	JXD23B250	**6GNG6**
300 A	500 kcmil	—	—	JXD22B300	**6GNG1**	JXD23B300	**6GNG7**
350 A	500 kcmil	—	—	JXD22B350	**6GNG2**	JXD23B350	**6GNG8**
400 A	500 kcmil	—	—	JXD22B400	**6GNG3**	JXD23B400	**6GNG9**

ED 1-Pole

HED 2-Pole

SIEMENS

Circuit Breakers for Siemens Panelboards and Switchboards

- Box lug

ED
- 1-pole: 10kA IR at 120/240VAC; 1-pole: 22kA at 277VAC
- 2- and 3-pole: 18kA at 480VAC

HED
- 1-pole: 65kA IR at 277VAC, 12 to 30A; 1-pole: 25kA IR at 277VAC, 35 to 100A
- 2- and 3-pole: 42kA IR at 480VAC

FXD
- 2- and 3-pole: 22kA IR at 600V

JXD
- 2- and 3-pole: 65kA IR at 240VAC

6DNT0

6DNT1

6DNT2

6DNT3

6DNT4

6DNT5

Siemens Circuit Breaker Accessories

SIEMENS

Description	For Use With	Mfr. Model	Item No.
Padlocking Device	Siemens BL, BLF, BE, BEF Circuit Breakers	ECPLD1	**6DNT0**
Padlocking Device	Siemens BL, BLF, BE, BEF, BQ Circuit Breakers	ECPLD2	**6DNT1**
Handle Blocking Device	Siemens BQXD, BL, BQ, BQH, HBQ, BLH, HBL Circuit Breakers	ECQL1	**6DNT2**
Locking Device	Siemens BQXD, BL, BQ, BQH, HBQ, BLH, HBL Circuit Breakers	ECQLD3	**6DNT3**
Mechanical Interlock	Siemens BQ Circuit Breakers	ECQML12	**6DNT4**
Handle Tie	BQ, BQH, HBQ, BLH, HBL Circuit Breakers	ECQTH3	**6DNT5**
Handle Blocking Device	Siemens BQD, CQD, NGG Breakers	BQDHBD	**6FMX1**
Padlocking Device	Siemens BQD, CQD Breakers	BQDPLD	**6FMX2**

6FMX1

6FMX2

Surge Protection Devices (SPDs)

SolaHD

- Compact and narrow design
- Low clamping levels

Provide point-of-use, all-mode protection against damaging transients at the dedicated equipment level. Install in electronic control cabinets on the factory floor or at remote locations. Provide sine wave tracking, LED status indication, form C dry contacts.

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Item No.
Internal Surface-Mount SPDs							
120V AC	Single	L-G, L-N, N-G	150 V AC	—	2.5 A	STFV02510N	**19L426**
120V AC	Single	L-G, L-N, N-G	150 V AC	—	5 A	STFV05010N	**19L428**
120V AC	Single	L-G, L-N, N-G	150 V AC	—	7.5 A	STFV07510N	**19L430**
120V AC	Single	L-G, L-N, N-G	150 V AC	—	15 A	STFV15010N	**19L432**
240V AC	Single	L-G, L-L, L-N, N-G	275 V AC	—	5 A	STFV05024L	**19L429**
DIN Rail Internal-Mount SPDs							
120V AC	Single	L-G, L-N, N-G	150 V AC	500V (L-G, L-N, N-G)	3 kA	STV25K-10S	**6NN78**
120V AC	Single	L-G, L-N, N-G	150 V AC	400V (L-N), 600V (L-G, N-G)	5 A	STFE05010N	**19L422**
120V AC	Single	L-G, L-N, N-G	150 V AC	400V (L-N), 500V (L-G, N-G)	10 A	STFE10010N	**19L424**
120V AC	Single	L-G, L-N, N-G	150 V AC	400V (L-N), 500V (L-G, N-G)	20 A	STFE20010N	**19L425**
240V AC	Single	L-G, L-L	275 V AC	900V (L-L, L-G)	3 kA	STV25K-24S	**6NN79**
Chase-Nipple External-Mount SPDs							
480V AC Delta	Three	L-G, L-L	575/640 V AC	2000V (L-G, L-L)	20 kA	STV100K48D	**19L440**

6NN78

SQUARE D by Schneider Electric

Surge Protection Devices (SPDs)

19H479

Enclosure NEMA Rating	Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Mfr. Model	Item No.
SPD Type 1									
4X	120/240V AC	Single	L-L, L-N	150 V AC	1200V (L-L), 700V (L-N)	10 kA	36 kA	SDSA1175	**3XB86**
4X	120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L, N-G), 600V (L-N), 700V (L-G)	10 kA	80 kA	HEPD80	**22P065**
4X	347/600V AC Wye	Three	L-L, L-N	510 V AC	1800V (L-N), 3000V (L-L)	10 kA	40 kA	SDSA3650	**3XB87**
4X	600V AC Delta	Three	L-L	1020 V AC	3000V (L-L)	10 kA	40 kA	SDSA3650D	**19H479**

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Max. Surge Current per Phase: 50 kA Item No.	80 kA Item No.	100 kA Item No.
SPD Hardwired, NEMA 4X, Includes Audible Alarm, Dry Contacts, LED Status Indicator									
120/240V AC High Leg Delta	Three	H-G, H-L, H-N, L-G, L-L, L-N, N-G	150/270 V AC	1000V (L-N), 1200V (H-N, L-G), 1500V (H-G, L-L), 1800V (H-L), 700V (N-G)	20 kA	TVS3HWA_X	**30EG13**	**30EG14**	**30EG12**
240V AC Delta	Three	L-G, L-L	300 V AC	1500V (L-G, L-L)	20 kA	TVS6HWA_X	**30EG22**	—	**30EG21**
480V AC Delta	Three	L-G, L-L	640 V AC	2500V (L-G, L-L)	20 kA	TVS5HWA_X	**30EG19**	**30EG20**	**30EG18**
600V AC Delta	Three	L-G, L-L	840 V AC	3000V (L-G, L-L)	20 kA	TVS9HWA_X	—	—	**30EG27**
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1200V (L-G), 1500V (L-L), 700V (N-G), 900V (L-N)	20 kA	TVS2HWA_X	**30EG10**	**30EG11**	**30EG09**
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-G), 1500V (L-L), 700V (N-G), 900V (L-N)	20 kA	TVS1HWA_X	**30EG07**	**30EG08**	**30EG06**
347/600V AC Wye	Three	L-G, L-L, L-N, N-G	420 V AC	1500V (L-N, N-G), 2500V (L-G), 3000V (L-L)	20 kA	TVS8HWA_X	**30EG25**	—	**30EG24**
480/277V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1000V (N-G), 1200V (L-N), 2000V (L-G), 2500V (L-L)	20 kA	TVS4HWA_X	—	**30EG17**	—
480/277V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1000V (N-G), 1200V (L-N), 2000V (L-G), 2500V (L-L)	20 kA	TVS4HWA_X	**30EG16**	—	**30EG15**

EATON

Surge Protection Devices (SPDs)

Service entrance surge protection provides AC power protection, and LED status indication for indoor/outdoor applications. Connect to the outside of any UL-approved loadcenter. Base Mount feature thermally-protected metal oxide varistors for high energy capacity. Small size allows device to be installed close to the equipment being protected.

30UJ07

6YTP2

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Mfr. Model	Item No.
Panelboard Mount, NEMA 1								
24V DC	Single	—	30 V AC/DC	—	3 kA	6 kA	AGCF02410-DIN	**30UJ08**
120V AC	Single	L-G, L-N, N-G	150 V AC	500V (L-G, L-N, N-G)	5 kA	40 kA	AGCF12010-DIN2	**30UJ07**
240V AC	Single	L-G, L-N, N-G	275 V AC	800V (L-N), 900V (L-G, N-G)	3 kA	30 kA	AGCF24010-DIN2	**30UJ09**
Mount, NEMA 4X, Includes ¾ in Conduit Fitting								
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-G, L-L), 700V (L-N), 800V (N-G)	20 kA	50 kA	CVX050-240S	**5RAA5**
120/240V AC	Single	L-G, L-L	150 V AC	1200V (L-L), 700V (L-N), 800V (L-G), N-G)	20 kA	100 kA	CVX100-240S	**5RAC0**
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 600V (L-N), 700V (L-G, N-G)	20 kA	100 kA	CVX100-208Y	**5RAA8**
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G), 1800V (L-L)	20 kA	100 kA	CVX100-240D	**5RAA9**
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-G, L-N, N-G), 1800V (L-L)	20 kA	100 kA	CVX100-480Y	**5RAC2**
480V AC Delta	Three	L-G, L-L	550 V AC	1800V (L-G), 3000V (L-L)	20 kA	50 kA	CVX050-480D	**5RAA6**
Loadcenter Mount, NEMA 4								
120/240V AC	Single	L-G, L-L, L-N, N-G	150/300 V AC	1000V (L-L), 600V (L-G, L-N), 800V (N-G)	5 kA	36 kA	CHSPT2SURGE	**6YTP2**
120/240V AC	Single	L-G, L-L, L-N, N-G	150/300 V AC	1000V (L-L), 600V (L-G, L-N), 800V (N-G)	20 kA	108 kA	CHSPT2ULTRA	**6YTP4**
DIN Rail Mount, NEMA 1								
120V AC	Single	L-G, L-N, N-G	150 V AC	330V (L-G, N-G), 400V (L-N)	10 A	60 kA	AGPH12010	**30UJ04**
120V AC	Single	L-G, L-N, N-G	150 V AC	330V (L-G, N-G), 400V (L-N)	15 A	60 kA	AGPH12015	**30UJ05**
120V AC	Single	L-G, L-N, N-G	150 V AC	330V (L-G, N-G), 400V (L-N)	20 A	60 kA	AGPH12020	**30UJ06**

Hardwired Surge Protection Devices (SPDs)

SENTREX® Power & Data Quality Systems

- NEMA rated 4X
- 80kA (PA) or 160kA (PB) max. surge current protection per phase
- Short circuit rating of 10kA
- UL 1449 3rd Edition

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Mfr. Model	Item No.
120/240V AC	Single	L-G, L-L, L-N, N-G	150/300 V AC	1200V (L-G), 1500V (L-L), 700V (N-G), 800V (L-N)	5 kA	PB120T	**19D592**
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150/300 V AC	1500V (L-L), 700V (N-G), 800V (L-G, L-N)	5 kA	PB120Y	**19D591**
120/240V AC High Leg Delta	Three	H-G, H-L, H-N, L-G, L-L, L-N, N-G	150/300 V AC	1200V (H-N, L-G), 1500V (H-G, L-L), 1800V (H-L), 800V (L-N, N-G)	5 kA	PB240DCT	**19D593**
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320/640 V AC	1200V (L-L, L-N, N-G), 2000V (L-G)	5 kA	PB277Y	**19D594**

19D592

18K874

18K853

18K864

6DNY4

19T319

19T311

13W846

ERICO SIEMENS

Surge Protection Devices (SPDs)

SIEMENS, UL 3RD EDITION

Siemens Transient Protection System (TPS3) is a complete line of hard wired surge protection solutions designed to provide robust surge protection for your electrical and electronic equipment. Most SPDs carry UL's highest I-n rating of 20kA with surge current capacities ranging from 50 to 300kA. Suitable for commercial, industrial, and residential SPDs. See the table below for surge current ranges based upon the average ratings specified by US consulting engineers.

ERICO

Compact models can be directly mounted to panel and installed in small spaces. LED status monitoring. Modular models allow individual modules and fuses to be field-replaceable. Built-in disconnect and fusing eliminates the need for external fusing.

Voltage	Phase	Modes of Protection	MCOV	VPR	Nominal Discharge Current	Max. Surge Current Per Phase	Brand	Mfr. Model	Item No.
NEMA 1, 12, 3R, 4, Surge Counter, Audible Alarm, Dry Contacts, EMI/RFI Filters, Protection Status LEDs									
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	200 kA	Siemens	TPS3A12200X02	19T307
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	300 kA	Siemens	TPS3A12300XD2	19T308
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	200 kA	Siemens	TPS3C12200X02	19T303
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	300 kA	Siemens	TPS3C12300XD2	19T304
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	150/320 V AC	1800V (L-L), 700/1200V (L-G, L-N), 700V (N-G)	20 kA	200 kA	Siemens	TPS3B12200X02	19T305
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	150/320 V AC	1800V (L-L), 700/1200V (L-G, L-N), 700V (N-G)	20 kA	300 kA	Siemens	TPS3B12300XD2	19T306
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G, L-L)	20 kA	200 kA	Siemens	TPS3D12200X02	19T298
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G, L-L)	20 kA	300 kA	Siemens	TPS3D12300XD2	19T299
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-N, L-G, N-G), 2000V (L-L)	20 kA	200 kA	Siemens	TPS3E12200X02	19T309
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-N, L-G, N-G), 2000V (L-L)	20 kA	300 kA	Siemens	TPS3E12300XD2	19T310
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G, L-L)	20 kA	200 kA	Siemens	TPS3F12200X02	19T301
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G, L-L)	20 kA	300 kA	Siemens	TPS3F12300XD2	19T302
NEMA 1, Chase Nipple/Panel									
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1200V (L-L), 700V (N-G), 800V (L-G, L-N)	120 kA	300 kA	Nvent Erico	TDX300S120/240	18K872 *
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1200V (L-L), 700V (N-G), 800V (L-G, L-N)	160 kA	400 kA	Nvent Erico	TDX400S120/240	18K875 *
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1200V (L-L), 700V (N-G), 800V (L-G, L-N)	120 kA	300 kA	Nvent Erico	TDX300S120/208	18K871 *
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1200V (L-L), 700V (N-G), 800V (L-G, L-N)	160 kA	400 kA	Nvent Erico	TDX400S120/208	18K874 *
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320/550 V AC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	120 kA	300 kA	Nvent Erico	TDX300S277/480	18K873 *
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320/550 V AC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	160 kA	400 kA	Nvent Erico	TDX400S277/480	18K876 *
NEMA 4, Chase Nipple/Panel									
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-N, N-G), 700V (L-G)	40 kA	100 kA	Nvent Erico	TDX100C120/240	18K855
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-N, N-G), 700V (L-G)	50 kA	100 kA	Nvent Erico	TDX100M120/240	18K859 *
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-G, L-N, N-G)	20 kA	200 kA	Nvent Erico	TDX200C120/240	18K865
120/240V AC	Single	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-G, L-N, N-G)	20 kA	200 kA	Nvent Erico	TDX200S120/240	18K868 *
120V AC	Single	L-G, L-N, N-G	170 V AC	600V (L-G, L-N, N-G)	40 kA	100 kA	Nvent Erico	TDX100C120	18K853
240V AC	Single	L-G, L-N, N-G	275 V AC	1000V (L-G, L-N, N-G)	40 kA	100 kA	Nvent Erico	TDX100C240	18K856
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-N, N-G), 700V (L-G)	40 kA	100 kA	Nvent Erico	TDX100C120/208	18K854
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-N, N-G), 700V (L-G)	50 kA	100 kA	Nvent Erico	TDX100M120/208	18K858 *
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-G, L-N, N-G)	20 kA	200 kA	Nvent Erico	TDX200C120/208	18K864
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-G, L-N, N-G)	20 kA	200 kA	Nvent Erico	TDX200S120/208	18K867 *
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	170/276 V AC	1000V (L-L), 600V (L-G, L-N, N-G)	50 kA	100 kA	Nvent Erico	TDX100M120/240D	18K860 *
240V AC Delta	Three	L-G, L-L	275/550 V AC	1000V (L-G, L-L)	40 kA	100 kA	Nvent Erico	TDX100M240D	18K861 *
277/480V AC Wye	Three	L-L, L-N, N-G	320/550 V AC	1200V (L-L, L-N, N-G), 1800V (L-L)	40 kA	100 kA	Nvent Erico	TDX100C277/480	18K857
277/480V AC Wye	Three	L-L, L-N, N-G	320/550 V AC	1200V (L-L, L-N, N-G), 1800V (L-L)	40 kA	100 kA	Nvent Erico	TDX100M277/480	18K862 *
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320/550 V AC	1000V (L-N), 1200V (L-G, N-G), 1800V (L-L)	20 kA	200 kA	Nvent Erico	TDX200C277/480	18K866
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320/550 V AC	1000V (L-N), 1200V (L-G, N-G), 1800V (L-L)	20 kA	200 kA	Nvent Erico	TDX200S277/480	18K869 *
480V AC Delta	Three	L-G, L-L	610/1220 V AC	1800V (L-G, L-L)	40 kA	100 kA	Nvent Erico	TDX100M480D	18K863 *
480V AC Delta	Three	L-G, L-L	610/1220 V AC	1800V (L-G, L-L)	20 kA	200 kA	Nvent Erico	TDX200S480D	18K870 *
NEMA 4X, Audible Alarm, Dry Contacts, EMI/RFI Filters, Protection Status LEDs									
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G), 2000V (L-L)	10 kA	200 kA	Siemens	TPS3F1120D2	19T313
NEMA 4X, Audible Alarm, Dry Contacts, LED Status Indicator									
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 500V (N-G), 600V (L-N), 700V (L-G)	20 kA	100 kA	Siemens	TPS3A0910D00	6DNY4
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 500V (N-G), 600V (L-N), 700V (L-G)	20 kA	100 kA	Siemens	TPS3C0910D00	6DNY6
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1000V (N-G), 1200V (L-G, L-N), 1800V (L-L)	20 kA	100 kA	Siemens	TPS3E0910D00	6DNY8
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G, L-L)	10 kA	100 kA	Siemens	TPS3F0910D00	6DNY9
NEMA 4X, Bracket, DIN RAIL Mount, LED Status Indicator									
120/240V AC	Single	L-L, L-N	150 V AC	1000V (L-L), 600V (L-N)	20 kA	50 kA	Siemens	TPS3A03050	13W834
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	150/320 V AC	1000V/1500V (L-L), 1200V (L-G), 600V (L-N)	20 kA	50 kA	Siemens	TPS3B030500	19T320
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G), 1500V (L-L)	20 kA	50 kA	Siemens	TPS3D030500	19T319
480V AC Delta	Three	L-L, L-N	552 V AC	1800V (L-G), 3000V (L-L)	10 kA	50 kA	Siemens	TPS3F030500	13W837
NEMA 4X, Dry Contacts, EMI/RFI Filters, Protection Status LEDs									
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 600V (N-G), 700V (L-G, L-N)	20 kA	150 kA	Siemens	TPS3A1115D2	13W838
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 500V (N-G), 600V (L-N), 700V (L-G)	20 kA	200 kA	Siemens	TPS3A1120D2	19T317
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 600V (N-G), 700V (L-G, L-N)	20 kA	150 kA	Siemens	TPS3C1115D2	13W839
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1000V (L-L), 600V (N-G), 700V (L-G, L-N)	20 kA	200 kA	Siemens	TPS3C1120D2	19T314
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	150/320 V AC	1000V (L-L), 600V (N-G), 700/1200V (L-G, L-N)	20 kA	150 kA	Siemens	TPS3B1115D2	19T315
120/240V AC High Leg Delta	Three	L-G, L-L, L-N, N-G	150/320 V AC	1000V (L-L), 600V (N-G), 700/1200V (L-G, L-N)	20 kA	200 kA	Siemens	TPS3B1120D2	19T316
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G), 2000V (L-L)	20 kA	150 kA	Siemens	TPS3D1115D2	19T311
240V AC Delta	Three	L-G, L-L	320 V AC	1200V (L-G), 2000V (L-L)	20 kA	200 kA	Siemens	TPS3D1120D2	19T312
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-G, L-N, N-G), 2000V (L-L)	20 kA	150 kA	Siemens	TPS3E1115D2	13W840
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-N, L-G, N-G), 2000V (L-L)	20 kA	200 kA	Siemens	TPS3E1120D2	19T318
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G), 2000V (L-L)	10 kA	150 kA	Siemens	TPS3F1115D2	13W841
NEMA 4X, Surge Counter, Audible Alarm, Dry Contacts, EMI/RFI Filters, Protection Status LEDs									
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	200 kA	Siemens	TPS3A1220VX02	13W842
120/240V AC	Single	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	300 kA	Siemens	TPS3A1230VXD2	13W846
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	200 kA	Siemens	TPS3C1220VX02	13W843
120/208V AC Wye	Three	L-G, L-L, L-N, N-G	150 V AC	1200V (L-L), 700V (L-G, L-N, N-G)	20 kA	300 kA	Siemens	TPS3C1230VXD2	13W847
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-N, L-G, N-G), 2000V (L-L)	20 kA	200 kA	Siemens	TPS3E1220VX02	13W844
277/480V AC Wye	Three	L-G, L-L, L-N, N-G	320 V AC	1200V (L-N, L-G, N-G), 2000V (L-L)	20 kA	300 kA	Siemens	TPS3E1230VXD2	13W848
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G, L-L)	20 kA	200 kA	Siemens	TPS3F1220VX02	13W845
480V AC Delta	Three	L-G, L-L	552 V AC	1800V (L-G, L-L)	20 kA	300 kA	Siemens	TPS3F1230VXD2	13W849

** Modular design includes internal fusing.*

Class 2 Transformers

JOHNSON CONTROLS

Designed for use on digital controllers, gas controls, ignition systems, motor actuators, staging controls, and most other 24VAC HVACR control systems. UL 1585, UL 506, and CSA C22.2 No. 66.

DAYTON

- 1-phase, 60/50 Hz

100VA models and 4TGX7 and 4VZF1 are UL and C-UL Listed. Most others are UL and C-UL Recognized, except 50VA models are UL Recognized and CSA Certified.

VA Rating	Input Voltage	Output Voltage	Includes	Brand	Item No.
½ in Hub, Foot Mount					
20 VA	24V AC	24V AC	Inherently Isolated	RIB	**2ETC5**
	120V AC	24V AC	Inherently Isolated	RIB	**2ETC4**
	277V AC	24V AC	Inherently Isolated	RIB	**2ETC6**
40 VA	24V AC	24V AC	Inherently Isolated	RIB	**2ETC8**
	120/208/240V AC	24V AC	Inherently Isolated	RIB	**2ETC9**
	120/208/240V AC	24V AC	Internal Thermal	RIB	**41D382**
	120V AC	24V AC	Inherently Isolated	RIB	**2ETC7**
	120V AC	24V AC	Inherently Isolated	RIB	**6ZEP2**
	208/240/277/480V AC	120V AC	—	RIB	**41D381**
50 VA	120/208/240/277/480V AC	24V AC	Circuit Breaker	RIB	**2ETD3**
	120/208/240V AC	24V AC	Circuit Breaker	RIB	**41D391**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD1**
	120V AC	24V AC	Fuse	RIB	**41D383**
	120V AC	24V AC	Fuse	RIB	**6ZEP4**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP6**
	208/240/277/480V AC	120V AC	—	RIB	**41D393** *
	208/277/480V AC	24V AC	Circuit Breaker	RIB	**41D392**
	277V AC	24V AC	Circuit Breaker	RIB	**2ETD2**
	277V AC	24V AC	Fuse	RIB	**41D387**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	RIB	**2ETD6**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD4**
	277V AC	24V AC	Circuit Breaker	RIB	**2ETD5**
100 VA	120/208/240/277/480V AC	24V AC	—	RIB	**45DR93**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D399**
	120V AC	24V AC	Circuit Breaker	RIB	**2ETD7**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP7**
150 VA	120V AC	24V AC	—	RIB	**41D401** *
	208/240/277/480V AC	120V AC	—	RIB	**41D403** *
175 VA	120V AC	24V AC	—	RIB	**41D406** *
240 VA	120V AC	24V AC	—	RIB	**41D407** *
375 VA	120V AC	24V AC	—	RIB	**41D409** *
Dual ½ in Hub, Foot Mount					
20 VA	120/208/240/277V AC	24V AC	Inherently Limited	RIB	**41D378**
	208V AC	24V AC	Inherently Limited	RIB	**41D377**
40 VA	120/208/240/277V AC	24V AC	Inherently Limited	RIB	**2ETD8**
	120V AC	24V AC	Inherently Limited	RIB	**41D379**
	120V AC	24V AC	—	RIB	**23NT19**
50 VA	120/208/240/277/480V AC	24V AC	None	RIB	**45DR71**
	120/208/240V AC	24V AC	Circuit Breaker	RIB	**41D390**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D386**
	120V AC	24V AC	Fuse	RIB	**41D384**
	208/240/277/480V AC	120V AC	—	RIB	**41D389**
	208/240V AC	24V AC	Fuse	RIB	**41D385**
	277V AC	24V AC	Fuse	RIB	**41D388**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	RIB	**41D396**
	120V AC	24V AC	Circuit Breaker	RIB	**41D395**
100 VA	120/208/240/277/480V AC	24V AC	—	RIB	**45DR91**
	120/208/240/277/480V AC	24V AC	—	RIB	**45DR92**
	120/240/277/480V AC	24V AC	Circuit Breaker	RIB	**41D398**
	120V AC	24V AC	Circuit Breaker	RIB	**41D397**
	120V AC	24V AC	Circuit Breaker	RIB	**6ZEP8**
	208/240/277/480V AC	120V AC	—	RIB	**23NT20**

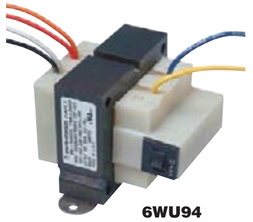
WHITE RODGERS

Energy limiting to power 24VAC control systems, and step down available line voltage.

RIB® 20 TO 100VA

- Class 2 rated, except where footnoted
- 1-phase, 60/50 Hz

Designed with split-bobbin construction and pigtail wires. UL and C-UL Listed, CE Certified.



6WU94

VA Rating	Input Voltage	Output Voltage	Includes	Brand	Item No.
150 VA	120V AC	24V AC	—	RIB	**41D402** *
175 VA	120V AC	24V AC	—	RIB	**41D405** *
Foot, Universal (½ in Hub Plate) Mount					
40 VA	120/208/240V AC	24V AC	Multi Mount Plate	WR	**6WU93**
	120V AC	24V AC	Thermal Breaker	Dayton	**4VZE5**
	120V AC	24V AC	Multi Mount Plate	WR	**6WU92**
Foot Mount					
5 VA	120V AC	10V AC	—	Edwards	**14W012**
10 VA	120V AC	16V AC	—	Edwards	**14W013**
10 VA @ 6V AC, 15 VA @ 12V AC, 15 VA @ 18V AC	120V AC	12V AC, 18V AC, 6V AC	—	Edwards	**14W015**
10 VA @ 16V AC, 10 VA @ 8V AC, 20 VA @24V AC	120V AC	16V AC, 24V AC, 8V AC	—	Edwards	**14W014**
20 VA	120/208/240V AC	24V AC	—	Dayton	**4VZE2**
	120V AC	24V AC	—	Dayton	**4VZE1**
20 VA @ 8V AC, 30 VA @ 16V AC, 30 VA @ 24 V AC	120V AC	16V AC, 24V AC, 8V AC	—	Edwards	**14W016**
40 VA	24V AC	24V AC	—	Johnson	**29YK06**
	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YK07**
	120/208/240V AC	24V AC	Thermal Breaker	Dayton	**4VZE4**
	120/208/240V AC	24V AC	—	WR	**6WU91**
	120V AC	24V AC	—	Johnson	**29YK03**
	120V AC	24V AC	—	Edwards	**14W017**
50 VA	120/208/240V AC	24V AC	—	Dayton	**4VZE8**
	120/277V AC	24V AC	—	RIB	**41D394**
60 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF2**
	120/208/240V AC	24V AC	Circuit Breaker	Dayton	**4VZF1**
	120/208/240V AC	24V AC	—	WR	**6WU94**
75 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF5**
	120/208/240V AC	24V AC	—	WR	**6WU95**
92 VA	120/208/240V AC	24V AC	—	Johnson	**29YK01**
96 VA	120/208/240/480V AC	24V AC	Circuit Breaker	Dayton	**4VZF8**
175 VA	208/240V AC	24V AC	—	RIB	**41D404** *
300 VA	120/208/240/480V AC	24V AC	—	RIB	**41D408** *
Plate Mount					
40 VA	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YK08**
	120V AC	24V AC	4" x 4" Plate	Johnson	**29YK04**
	120V AC	24V AC	Thermal Breaker	Dayton	**4TGX7**
	120V AC	25V AC	—	WR	**3A358**
	277/480V AC	24V AC	4" x 4" Plate	Johnson	**29YK05**
50 VA	120/208/240V AC	24V AC	4" x 4" Plate	Johnson	**29YJ99**
92 VA	120/208/240V AC	24V AC	Mounting Plate	Johnson	**29YK02**

** Non-Class 2 rated.*

23NT01

23NT12

Prepackaged Control Transformers

- 24VAC Output
- 1-Phase, 60/50 Hz
- Includes circuit breaker
- 40VA to 500VA

Feature On/Off control, overcurrent protection, LED power indicator, high/low separation, 120VAC convenience outlets, and fully-enclosed finger-safe terminals.

VA Rating	Enclosure Style	Primary Connection	H	W	D	Item No.
120V AC Input Voltage						
40 VA	Enclosed	Pigtails	4.5 in	5.43 in	4.5 in	**23NT01**
40 VA	Enclosed	3 ft Cord with Plug	4.5 in	5.43 in	4.5 in	**23NT03**
100 VA	Enclosed	Screw Terminals	6.25 in	4.25 in	5.62 in	**23NT07**
100 VA	Enclosed	Pigtails	4.5 in	5.44 in	4.5 in	**23NT08**
100 VA	Enclosed	3 ft Cord with Plug	4.5 in	5.44 in	4.5 in	**23NT09**
(2) 100 VA	Enclosed	Pigtails	4.5 in	8.62 in	4.5 in	**23NT10**
100 VA	Open	Screw Terminals	5.2 in	3.75 in	5.25 in	**23NT06**
120V AC, 208V AC, 240V AC, 277V AC, 480V AC Input Voltage						
75 VA	Enclosed	Pigtails	4.5 in	5.43 in	4.5 in	**23NT04**
(2) 75 VA	Enclosed	Pigtails	4.5 in	8.62 in	4.5 in	**23NT05**
120V AC, 240V AC, 277V AC, 347V AC, 480V AC Input Voltage						
(5) 40 VA	Enclosed	Screw Terminals	4.5 in	5.44 in	4.5 in	**23NT11**
(5) 40 VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT12**
120V AC, 240V AC, 277V AC, 480V AC Input Voltage						
(3) 100 VA	Enclosed	Screw Terminals	12.13 in	12.12 in	6.0 in	**23NT13**
(5) 100 VA	Enclosed	Screw Terminals	12.13 in	12.12 in	6.0 in	**23NT15**
(3) 100 VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT14**
(5) 100 VA	Open	Screw Terminals	11.33 in	11.4 in	4.5 in	**23NT16**

6NW04

SolaHD

Power Conditioners

- 1-phase, 60 Hz
- Hardwired, panel-mount
- 25-yr. typical mean time before failure (MTBF)

Constant-voltage transformers regulate voltage, filter noise, and suppress surges to protect connected equipment. They utilize patented ferroresonant transformer technology to function as both step-up and step-down transformers. For use where a constant voltage level is required to help reduce unscheduled downtime, incorrect data, or scrapped production. UL Listed.

Power Rating	Input Voltage	Output Voltage	W	H	D	Mfr. Model	Item No.
+/-1% Voltage Regulation, CVS Series							
30VA	120V	120V	4 in	7 in	5 in	23-13-030-2	**6NW04**
60VA	120V	120V	4 in	7 in	5 in	23-13-060-2	**6NW05**
120VA	120/240	120V	4 in	8 in	5 in	23-22-112-2	**6NW06**
250VA	120/240/480V	120V	6 in	11 in	8 in	23-23-125-8	**6NW07**
500VA	120/208/240/480	120/240V	9 in	13 in	7 in	23-23-150-8	**6NW08**
1kVA	120/208/240/480V	120/240	9 in	17 in	7 in	23-23-210-8	**6NW09**
2kVA	120/208/240/480V	120/240	13 in	18 in	10 in	23-23-220-8	**6NW10**
3kVA	120/208/240/480V	120/240	13 in	19 in	10 in	23-23-230-8	**6NW11**
+/-3% Voltage Regulation, MCR Series							
250VA	120/208/240/480V	120V	6 in	10 in	8 in	63-23-125-4	**5EU14**
500VA	120/208/240/480V	120/208/240V	9 in	13 in	7 in	63-23-150-8	**5EU15**
1kVA	120/208/240/480V	120/208/240V	9 in	17 in	7 in	63-23-210-8	**5EU16**
2kVA	120/208/240/480V	120/208/240V	13 in	18 in	9 in	63-23-220-8	**5EU17**
3kVA	120/208/240/480V	120/208/240V	13 in	19 in	9 in	63-23-230-8	**5EU18**

VA Rating	Input Voltage	Output Voltage	DAYTON ENCAPSULATED Item No.	DAYTON FINGER SAFE Item No.	SQUARE D Item No.	ACME ELECTRIC Item No.
Without Primary Fuse Blocks						
50 VA	120/240VAC	24V AC	31EH75 *	—	4R886	491Z50
	120V AC	12/24VAC	31EH93	4JWU1	4R876	—
	208/240/480VAC	120V AC	—	—	4R884	—
	208/277VAC	120V AC	31EH11 *	—	—	—
	208V AC	24V AC	—	—	4R878	—
	208V AC	120V AC	—	—	4R888	—
	240/480VAC	120V AC	31EG82 *	—	4R874	491W86
	240/480VAC	24V AC	31EH39 *	—	4R882	491Y88
	277V AC	120V AC	—	4MTL9	4R890	—
	277V AC	24V AC	31EH57 *	—	—	—
	480V AC	120V AC	—	—	2CT23 ‡	—
75 VA	120/240VAC	24V AC	31EH76 *	—	4R900	491Z51
	120V AC	12/24VAC	31EH94	4MTN1	4R896	—
	208/277VAC	120V AC	31EH12 *	—	—	491Y55
	208V AC	120V AC	—	—	22LR91	—
	240/480VAC	24V AC	31EH40 *	—	4R898	491Y89
	240/480VAC	120V AC	31EG83 *	—	4R894	491W87
	277V AC	120V AC	—	4MTN7	22LR92	—
	277V AC	24V AC	31EH58 *	4MTN6	—	—
100 VA	120/240VAC	24V AC	31EH77 *	—	4R832	491Z52
	120V AC	12/24VAC	31EH95	—	4R824	—
	208/240/480VAC	120V AC	—	—	1YUR2	—
	208/277VAC	120V AC	31EH13 *	—	—	491Y56
	208V AC	24V AC	—	—	4R826	—
	208V AC	120V AC	—	—	4R834	—
	240/480VAC	24V AC	31EH41 *	—	4R830	491Y90
	240/480VAC	120V AC	31EG84 *	—	4R822	491W88
	240/480VAC	120V AC	—	—	4R828 *	491Z26
	277V AC	24V AC	31EH59 *	4MTP4	—	—
	277V AC	120V AC	—	4MTP5	4R836	—
	480V AC	120V AC	—	—	2CT24 ‡	—
150 VA	120/240VAC	24V AC	31EH78 *	—	4R850	491Z53
	120V AC	12/24VAC	31EH96	4MTP6	4R842	—
	208/240/480VAC	120V AC	—	—	4R848	—
	208/277VAC	120V AC	31EH14 *	—	—	491Y57
	208V AC	120V AC	—	—	1YUR4	—
	208V AC	24V AC	—	—	1YUR6	—
	240/480VAC	24V AC	31EH42 *	4MTP9	4R846	491Y91
	240/480VAC	120V AC	31EG85 *	—	4R840	491W89
	277V AC	120V AC	—	4MTR3	4R852	—
	277V AC	24V AC	31EH60 *	4MTR2	—	—
200 VA	120/240VAC	24V AC	31EH79 *	—	1YUR3	491Z54
	120V AC	12/24VAC	31EH97	—	1YUR7	—
	208/277VAC	120V AC	31EH15 *	—	—	—
	208V AC	120V AC	—	—	1YUR5	—
	208V AC	24V AC	—	—	22LR65	—
	240/480VAC	120V AC	31EG86 *	—	4R856	491W90
	240/480VAC	24V AC	31EH43 *	—	1YUR1	491Y92
	277V AC	120V AC	—	—	22LR67	—
	277V AC	24V AC	31EH61 *	—	—	—
250 VA	120/240VAC	24V AC	31EH80 *	4MTR5	1YUT2	491Z55
	120V AC	12/24VAC	31EH98	—	4R860	—
	208/240/480VAC	120V AC	—	—	1YUR9	—
	208/277VAC	120V AC	31EH16 *	—	—	491Y58
	208/277VAC	120V AC	—	—	—	491Y59
	208V AC	120V AC	—	—	1YUT3	—
	208V AC	24V AC	—	—	1YUT4	—
	240/480VAC	24V AC	31EH44 *	4MTR7	2CV18	491Y93
	240/480VAC	120V AC	31EG87 *	—	4R858	491W91
	277V AC	120V AC	—	—	1YUT1	—
	277V AC	24V AC	31EH62 *	—	—	—
300 VA	120/240VAC	24V AC	31EH81 *	—	22LR74	491Z56
	120V AC	12/24VAC	31EH99	—	4R866	—
	208/277VAC	120V AC	31EH17 *	—	—	491Y60
	208V AC	120V AC	—	—	22LR75	—
	240/480VAC	24V AC	31EH45 *	—	22LR72	491Y94
	240/480VAC	120V AC	31EG88 *	—	4R864	491W92
	277V AC	24V AC	31EH63 *	—	—	—
350 VA	120/240VAC	24V AC	31EH82 *	4MTT3	1YUT5	491Z57
	120V AC	12/24VAC	31EJ01	—	22LR77	—
	208/277VAC	120V AC	31EH18 *	—	—	491Y61
	208V AC	120V AC	—	—	1YUT6	—
	240/480VAC	120V AC	31EG89 *	—	4R868	491W93
	240/480VAC	24V AC	31EH46 *	4MTT5	22LR79	491Y95
	277V AC	24V AC	31EH64 *	4MTT7	—	—
	277V AC	120V AC	—	—	22LR81	—
500 VA	120/240VAC	24V AC	31EH83 *	—	1YUT9	491Z58
	120V AC	12/24VAC	31EJ02	4MTT9	4R872	—
	208/277VAC	120V AC	31EH19 *	—	—	491Y62
	208V AC	120V AC	—	—	1YUV1	—
	240/480VAC	24V AC	31EH47 *	—	1YUR8	491Y96
	240/480VAC	120V AC	31EG90 *	—	4R870	491W94
	277V AC	24V AC	31EH65 *	—	—	—
	277V AC	120V AC	—	—	1YUT8	—
750 VA	120/240VAC	24V AC	—	4MTU8	22LR88	491Z59
	120V AC	12/24VAC	31EJ03	—	22LR85	—
	208/277VAC	120V AC	31EH20 *	—	—	—
	208V AC	120V AC	—	—	1YUV4	—
	208V AC	24V AC	—	—	22LR86	—
	240/480VAC	24V AC	—	4MTV1	22LR87	491Y97
	240/480VAC	120V AC	31EG91 *	4MTV2	4R892	491W95
	277V AC	120V AC	—	—	1YUV3	—
1kVA	120/240VAC	24V AC	—	—	22LR60	491Z60
	120V AC	12/24VAC	31EJ04	4MTV5	22LR57	—
	208/240/480VAC	120V AC	31EJ44 *	—	—	—
	208/277VAC	120V AC	31EH21 *	—	—	—
	208V AC	120V AC	—	—	22LR61	—
	240/480VAC	24V AC	—	4MTV8	22LR59	491Z49
	240/480VAC	120V AC	31EG92 *	—	2F456	491W96
	277V AC	120V AC	—	4MTW2	1YUV5	—
1.5kVA	120/240VAC	24V AC	—	4MTW4	—	—
	120V AC	12/24VAC	31EJ05	—	—	—
	208/277VAC	120V AC	31EH22 *	—	—	—
	208V AC	120V AC	—	—	1YUV7	—
	240/480VAC	120V AC	31EG93 *	—	4RM77	491W97
	277V AC	120V AC	—	—	22LR62	—

Control Transformers

Square D Nonfused

Additional transformers are available, see Grainger.com®. 60/50 Hz.

Dayton® Encapsulated—Fully-encapsulated coil eases wire routing around transformer, and provides durable construction. 55°C temp. rise. Panel mounting. Include secondary fuse clips. 3-yr. warranty.

Dayton® Finger Safe—Open 1-phase isolating/control transformers feature separate insulated windings with heat-tempered varnish that protects against dust, humidity, and corrosion. For fixed installation in cabinets or switchboards. Require separate overload and short-circuit protection. Handle high inrush currents associated with contactors and relays. 50°C temp. rise, 45°C ambient.

Square D—Copper wound, vacuum impregnated. 50 to 150VA models: 55°C temp. rise; 200 to 350VA models: 80°C temp. rise; 500 to 2000VA models: 115°C temp. rise, meet NOM requirements. Fused models include 2 primary fuse clips to accommodate Class CC time delay, rejection type fuses; see page 180. 1 secondary fuse clip uses a 1½" x 13⁄32" midget fuse; see page 179. 10-year warranty.

Acme Electric—Constructed of silicon steel lamination to minimize core losses and increase efficiency. Feature precision wound coils, copper windings, and series-parallel connecting links. 80°C temp. rise.

VA Rating	Input Voltage	Output Voltage	DAYTON ENCAPSULATED Item No.	DAYTON FINGER SAFE Item No.	SQUARE D Item No.	ACME ELECTRIC Item No.
2kVA	208/277VAC	120V AC	31EH23 *	—	—	—
	240/480VAC	120V AC	31EG94 *	—	4RM78	491W98
With Primary Fuse Blocks						
50 VA	120/240VAC	24V AC	31EH84	—	—	—
	120V AC	12/24VAC	31EJ06	—	—	—
	208/277VAC	120V AC	31EH26 *	—	—	491Y64
	208V AC	120V AC	—	—	1YUW3 *	—
	240/480VAC	24V AC	31EH48	—	1YUW1 *	491Y98
	240/480VAC	120V AC	31EG97	—	4R924 *	491X02
	277V AC	24V AC	31EH66 *	—	—	—
75 VA	120/240VAC	24V AC	31EH85	—	—	—
	120V AC	12/24VAC	31EJ07	—	—	—
	208/277VAC	120V AC	31EH27 *	—	—	491Y65
	240/480VAC	120V AC	31EG98	—	4R930 *	491X03
	240/480VAC	24V AC	31EH49	—	—	491Y99
	277V AC	24V AC	31EH67 *	—	—	—
100 VA	120/240VAC	24V AC	31EH86	—	—	—
	120V AC	12/24VAC	31EJ08	—	—	—
	208/240/480VAC	120V AC	—	—	4R906 *	—
	208/277VAC	120V AC	31EH28 *	—	—	491Y66
	208V AC	120V AC	—	—	1YUW6 *	—
	240/480VAC	24V AC	31EH50	—	1YUW5 *	491Z01
	240/480VAC	120V AC	31EG99	—	4R904 *	491X04
	277V AC	24V AC	31EH68 *	—	—	—
150 VA	120/240VAC	24V AC	31EH87	—	—	—
	120V AC	12/24VAC	31EJ09	—	—	—
	208/240/480VAC	120V AC	—	—	4R912 *	—
	208/277VAC	120V AC	31EH29 *	—	—	491Y67
	208V AC	120V AC	—	—	1YUW8 *	—
	240/480VAC	24V AC	31EH51	—	1YUW7 *	491Z02
	240/480VAC	120V AC	31EH01	—	4R910 *	491X05
	277V AC	24V AC	31EH69 *	—	—	—
200 VA	120/240VAC	24V AC	31EH88	—	—	—
	120V AC	12/24VAC	31EJ10	—	—	—
	208/277VAC	120V AC	31EH30 *	—	—	491Y68
	240/480VAC	120V AC	31EH02	—	4R914 *	491X06
	240/480VAC	24V AC	31EH52	—	—	491Z03
250 VA	120/240VAC	24V AC	31EH89	—	—	—
	120V AC	12/24VAC	31EJ11	—	—	—
	208/277VAC	120V AC	31EH31 *	—	—	491Y69
	240/480VAC	120V AC	31EH03	—	4R916 *	—
	240/480VAC	24V AC	31EH53	—	—	491Z04
300 VA	120/240VAC	24V AC	31EH90	—	—	—
	120V AC	12/24VAC	31EJ12	—	—	—
	208/277VAC	120V AC	31EH32 *	—	—	491Y70
	208V AC	120V AC	—	—	1YUX2 *	—
	240/480VAC	120V AC	31EH04	—	4R918 *	491X08
	240/480VAC	24V AC	31EH54	—	—	491Z05
350 VA	120V AC	12/24VAC	31EJ13	—	—	—
	208/277VAC	120V AC	31EH33 *	—	—	491Y71
	240/480VAC	120V AC	31EH05	—	4R920 *	491X09
	240/480VAC	24V AC	—	—	—	491Z06
500 VA	120/240VAC	24V AC	31EH92	—	—	—
	120V AC	12/24VAC	31EJ14	—	—	—
	208/277VAC	120V AC	31EH34 *	—	—	491Y72
	208V AC	120V AC	—	—	1YUX5 *	—
	240/480VAC	24V AC	31EH56	—	—	491Z07
	240/480VAC	120V AC	31EH06	—	4R922 *	491X10
	277V AC	24V AC	31EH74 *	—	—	—
750 VA	120V AC	12/24VAC	31EJ15	—	—	—
	208/277VAC	120V AC	31EH35 *	—	—	491Y73
	240/480VAC	120V AC	31EH07	—	4R928 *	491X11
1kVA	120V AC	12/24VAC	31EJ16	—	—	—
	208/277VAC	120V AC	31EH36 *	—	—	—
	208V AC	120V AC	—	—	1YUX6 *	—
	240/480VAC	120V AC	31EH08	—	4R902 *	491X12
1.5kVA	120V AC	12/24VAC	31EJ17	—	—	—
	208/277VAC	120V AC	31EH37 *	—	—	—
	240/480VAC	120V AC	31EH09	—	1YUX7 *	491X13
2kVA	208/277VAC	120V AC	31EH38 *	—	—	—
	240/480VAC	120V AC	31EH10	—	1YUX8 *	491X14

*** Includes secondary fuse block. ‡ Wire lead connections.***

SQUARE D by Schneider Electric   Acme Electric®

1-Phase Transformers

1H727

- 120/240VAC output
- 60 Hz, except 60/50 Hz where noted
- Wall mount, except where noted

NEMA 3R enclosures, except NEMA 2 where footnoted. Weather shields to adapt indoor NEMA 2 enclosures for outdoor NEMA 3R use are available; call 1-800-GRAINGER (472-4643) or search Grainger.com®. UL Listed and CSA Certified.

VA Rating	SQUARE D Temp. Rise	SQUARE D Mfr. Model	SQUARE D Item No.	ACME ELECTRIC Temp. Rise	ACME ELECTRIC Mfr. Model	ACME ELECTRIC Item No.
120V AC, 208V AC, 240V AC, 277V AC Input						
1 kVA	—	—	—	115°C	T279740S	**4WUD5**
1.5 kVA	—	—	—	115°C	T279741S	**4WUD6**
2 kVA	—	—	—	115°C	T279742S	**4WUD7**
3 kVA	—	—	—	115°C	T279743S	**4WUD8**
5 kVA	—	—	—	115°C	T279744S	**4WUD9**
7.5 kVA	—	—	—	115°C	T279745S	**4WUE1**
120V AC, 240V AC Input						
1 kVA	180°C	1S6FIS	**2CT06**	—	—	—
2 kVA	115°C	2S6FIS	**2CT11**	—	—	—
5 kVA	115°C	5S6FIS	**2CN50**	—	—	—
7.5 kVA	115°C	7S6FIS	**2CN76**	—	—	—
190V AC, 200V AC, 208V AC, 220V AC, 380V AC, 400V AC, 416V AC, 440V AC Input						
2 kVA	115°C	2S67F	**2CT10** *	—	—	—
5 kVA	115°C	5S67F	**2CN49** *	—	—	—
7.5 kVA	115°C	7S67F	**2CN75** *	—	—	—
190V AC, 208V AC, 220 V AC, 240V AC, 380V AC, 416V AC, 440V AC, 480V AC Input						
1 kVA	115°C	1S67F	**2CT05** *	115°C	TF279260S	**4WUC6** *
2 kVA	—	—	—	115°C	TF279261S	**4WUC7** *
3 kVA	115°C	3S67F	**2CN20**	115°C	TF279262S	**4WUC8** *
5 kVA	—	—	—	115°C	TF279263S	**4WUC9** *
7.5 kVA	—	—	—	115°C	TF279264S	**4WUD1** *
10 kVA	—	—	—	115°C	TF279265S	**4WUD2** *
15 kVA	—	—	—	115°C	TF279266S	**4WUD3** *
25 kVA	—	—	—	115°C	TF279267S	**4WUD4** *
208V AC Input						
1 kVA	115°C	1S7F	**2CT07**	—	—	—
3 kVA	105°C	3S7FIS	**2CT20**	—	—	—
5 kVA	115°C	5S7FIS	**2CN51**	—	—	—
240V AC, 480V AC Input						
1 kVA	115°C	1S1F	**1H721**	115°C	T253010S	**4WUA5**
1.5 kVA	115°C	1.5S1F	**1H718**	115°C	T253011S	**4WUA6**
2 kVA	115°C	2S1F	**1H723**	115°C	T253012S	**4WUA7**
3 kVA	115°C	3S1F	**1H724**	115°C	T253013S	**4WUA8**
5 kVA	115°C	5S1F	**1H277**	115°C	T253014S	**4WUA9**
7.5 kVA	115°C	7S1F	**5B613**	115°C	T2535153S	**4WUC1**
10 kVA	115°C	10S1F	**5B605**	115°C	T2535163S	**4WUC2**
15 kVA	—	—	—	115°C	T2535173S	**4WUC3**
25 kVA	150°C	EE25S3H	**1TBP7** †	115°C	T2535183S	**4WUC4**
37.5 kVA	150°C	EE37S3H	**1TBP8** †	150°C	TP530193S	**4LCY7** †
50 VA	55°C	50SV1A	**1H727**	80°C	T153004	**4WTZ8**
50 kVA	150°C	EE50S3H	**1TBP9** †	150°C	TP530203S	**4LCY8** †
100 VA	55°C	100SV1A	**1H719**	80°C	T153005	**4WTZ9**
150 VA	55°C	150SV1A	**1H720**	80°C	T153006	**4WUA1**
250 VA	80°C	250SV1B	**1H722**	115°C	T253007S	**4WUA2**
500 VA	80°C	500SV1B	**1H726**	115°C	T253008S	**4WUA3**
750 VA	115°C	750SV1F	**1H728**	115°C	T253009S	**4WUA4**
480V AC Input						
3 kVA	115°C	3S40F	**2CN16**	—	—	—
5 kVA	115°C	5S40F	**2CN47**	—	—	—
7.5 kVA	115°C	7S40F	**2CN73**	—	—	—
10 kVA	115°C	10S40F	**2CL96**	—	—	—
15 kVA	115°C	15S40F	**2CM35**	—	—	—
25 kVA	115°C	25S40F	**2CM75** †	—	—	—
600V AC Input						
1 kVA	115°C	1S51F	**22LR47**	—	—	—
1.5 kVA	115°C	1.5S51F	**2CT02**	—	—	—
2 kVA	115°C	2S51F	**22LR49**	—	—	—
3 kVA	115°C	3S4F	**2CN19**	—	—	—
5 kVA	115°C	5S4F	**22LR55**	—	—	—
10 kVA	115°C	10S4F	**2CL97**	—	—	—
25 kVA	150°C	EE25S3534H	**1TBR1** †	—	—	—
50 VA	55°C	50SV51A	**22LR54**	—	—	—
50 kVA	150°C	EE50S3534H	**1TBR2** †	—	—	—
100 VA	55°C	100SV51A	**22LR45**	—	—	—
150 VA	55°C	150SV51A	**22LR46**	—	—	—
250 VA	80°C	250SV51B	**22LR48**	—	—	—
500 VA	80°C	500SV51B	**22LR53**	—	—	—
750 VA	115°C	750SV51F	**22LR56**	—	—	—

** 60/50 Hz. † NEMA 2 enclosures and floor mount.*

Harmonic Mitigating Transformers

Acme Electric®

49NR92

- 3Ø 480VAC input, 208Y/120VAC output
- Floor mount
- NEMA 3R enclosure
- 150°C temp. rise

Eliminates harmonics to improve power and energy efficiency. Reduce supply voltage flat-topping, transformer heat, and voltage distortion. For use where nonlinear loads generate high levels of harmonic currents that feed back into the distribution system.

VA Rating	Mfr. Model	Item No.
30kVA	H3030K0014BCS	**49NR92**
45kVA	H3045K0014BCS	**49NR93**
75kVA	H3075K0014BCS	**49NR94**
112.5kVA	H3112K0014BCS	**49NR95**

SQUARE D by Schneider Electric   Acme Electric®

1H270

4LEF5

Buck-Boost Transformers

- 120/240VAC Input
- 1-phase, 60 Hz
- Wall mount
- Enclosure type: indoor/outdoor

Protect connected equipment from damage by reducing (bucking) or raising (boosting) line voltage 5% to 20%. Primary and secondary lead wires can be interconnected for use as an autotransformer. For use in induction motors and air conditioning, lighting, and heating systems. 24/48VAC output models are available on Grainger.com®. UL Listed and CSA Certified.

VA Rating	Square D Temp. Rise	Square D Mfr. Model	Square D Item No.	Acme Electric Temp. Rise	Acme Electric Mfr. Model	Acme Electric Item No.
12V AC, 24V AC Output						
1 kVA	115°C	1S43F	**1H270**	115°C	T111683	**4LEG2**
1.5 kVA	115°C	1.5S43F	**2CL92**	115°C	T111684	**4LEG3**
2 kVA	115°C	2S43F	**2CM81**	115°C	T111685	**4LEG4**
3 kVA	115°C	3S43F	**2CN17**	115°C	T111686	**4LEG5**
5 kVA	—	—	—	115°C	T111687	**4LEG6**
7.5 kVA	—	—	—	115°C	T211688	**4LEG7**
10 kVA	—	—	—	115°C	T211689	**4LEG8**
50 VA	115°C	50SV43A	**2CN44**	80°C	T181047	**4LEF5**
100 VA	55°C	100SV43A	**1H266**	80°C	T181048	**4LEF6**
150 VA	55°C	150SV43A	**1H268**	80°C	T181049	**4LEF7**
250 VA	80°C	250SV43B	**1H271**	115°C	T181050	**4LEF8**
500 VA	80°C	500SV43B	**1H275**	115°C	T181051	**4LEF9**
750 VA	115°C	750SV43F	**1H279**	115°C	T181052	**4LEG1**
16V AC, 32V AC Output						
1 kVA	115°C	1S46F	**2CM61**	115°C	T113073	**4LEH6**
1.5 kVA	115°C	1.5S46F	**2CL93**	115°C	T113074	**4LEH7**
2 kVA	115°C	2S46F	**2CM82**	115°C	T113075	**4LEH8**
3 kVA	115°C	3S46F	**2CN18**	115°C	T113076	**4LEH9**
5 kVA	—	—	—	115°C	T113077	**4LEJ1**
7.5 kVA	—	—	—	115°C	T213078	**4LEJ2**
10 kVA	—	—	—	115°C	T213079	**4LEJ3**
50 VA	115°C	50SV46A	**2CN45**	80°C	T181054	**4LEG9**
100 VA	55°C	100SV46A	**2CL95**	80°C	T181055	**4LEH1**
150 VA	55°C	150SV46A	**2CM18**	80°C	T181056	**4LEH2**
250 VA	80°C	250SV46B	**1H272**	115°C	T181057	**4LEH3**
500 VA	80°C	500SV46B	**1H276**	115°C	T181058	**4LEH4**
750 VA	115°C	750SV46F	**1H280**	115°C	T181059	**4LEH5**
24V AC, 48V AC Output						
1 kVA	115°C	1S82F	**22LP78**	115°C	T137920	**4LEK1**
1.5 kVA	115°C	1.5S82F	**22LP75**	115°C	T137921	**4LEK2**
2 kVA	115°C	2S82F	**22LP80**	115°C	T137922	**4LEK3**
3 kVA	115°C	3S82F	**22LP81**	115°C	T137923	**4LEK4**
5 kVA	—	—	—	115°C	T137924	**4LEK5**
7.5 kVA	—	—	—	115°C	T243570	**4LEK6**
10 kVA	—	—	—	115°C	T243571	**4LEK7**
50 VA	115°C	50SV82A	**22LP83**	80°C	T181061	**4LEJ4**
100 VA	115°C	100SV82A	**22LP76**	80°C	T181062	**4LEJ5**
150 VA	55°C	150SV82A	**22LP77**	80°C	T181063	**4LEJ6**
250 VA	80°C	250SV82B	**22LP79**	115°C	T181064	**4LEJ7**
500 VA	80°C	500SV82B	**22LP82**	115°C	T181065	**4LEJ8**
750 VA	115°C	750SV82F	**22LP84**	115°C	T181066	**4LEJ9**

TRIPP·LITE

Isolation Transformers

3RY96

- 120VAC input/output
- Enhanced common mode surge suppression

Transformers offer line isolation and continuous line filtering to protect sensitive electronic equipment against electrical noise disturbances. Include circuit breaker. UL and C-UL Listed.

VA Rating	No. of Outlets	H	W	D	Mfr. Model	Item No.
Isolation Transformer						
250 VA	2	4.5 in	4.75 in	7.75 in	IS-250	**2KGD2**
500 VA	4	5.5 in	6.25 in	8.5 in	IS-500	**2KGD3**
1 kVA	4	7.25 in	7.25 in	10.5 in	IS-1000	**2KGD4**
Hospital Grade Isolation Transformer						
250 VA	2	4.5 in	4.75 in	7.75 in	IS250HG	**3RY96**
500 VA	4	5.75 in	6.25 in	9.25 in	IS500HG	**3RY97**
1 kVA	4	7.75 in	7.75 in	10.5 in	IS1000HG	**3RY98**
1.8 kVA	6	7.75 in	8.25 in	12.2 in	IS1800HG	**1AYB2**

Dayton Wall Mount 44YU98

3-Phase Transformers

The Department of Energy (DOE) has mandated new, more stringent efficiency standards for 15 to 1000kVA transformers. Transformers 15kVA and higher in these tables meet this new legislation, DOE 2016, and will help lower operating costs, lower cost of ownership, increase profitability, and reduce overall greenhouse gas emissions. Addtional transformers are available, call 1-800-GRAINGER (472-4643) or see Grainger.com®.

DAYTON

These transformers are designed for indoor locations and feature a 220°C insulation system (150°C rise) that is self-extinguishing.

ACME ELECTRIC

Acme's low voltage distribution transformers are designed for industrial and commercial applications. All of Acme's general purpose transformers are rated for 600V and below. Encapsulated units are offered in ratings up to 15kVA. Ventilated units are available in ratings from 30kVA to 300kVA.

SQUARE D

Transformers NEC minimum clearance side and rear is ½". All units designed to operate at least 3dB below ST-20 sound level. The terminals are sized to handle lug kits, increasing ease of installation. Designed with increased wiring compartments that provide a bending radius for 250% primary cables and multiple feeds on the secondary. Feature 200% neutral to allow customers to feed standard and nonlinear panels.

VA Rating	Input Voltage	Output Voltage	Mounting	Encl. Rating ‡	Temp. Rise	Brand	Item No.
Miscellaneous Voltages							
6kVA	480V AC Delta	240V AC Delta	Wall	NEMA 3R	115 °C	Square D	**5B611**
7.5kVA	460V AC Delta	133V AC, 230V AC Wye	Wall	NEMA 3R	115 °C	Acme Electric	**3AFL5**
7.5kVA	460V AC Delta	266V AC, 460V AC Wye	Wall	NEMA 3R	115 °C	Acme Electric	**3CNN1**
9kVA	480V AC Delta	240V AC Delta	Wall	NEMA 3R	115 °C	Square D	**5B618**
11kVA	460V AC Delta	133V AC, 230V AC Wye	Floor	NEMA 3R	115 °C	Acme Electric	**3AFL6**
11kVA	460V AC Delta	266V AC, 460V AC Wye	Floor	NEMA 3R	115 °C	Acme Electric	**3CNN2**
14kVA	460V AC Delta	133V AC, 230V AC Wye	Floor	NEMA 3R	115 °C	Acme Electric	**3AFL7**
14kVA	460V AC Delta	266V AC, 460V AC Wye	Floor	NEMA 3R	115 °C	Acme Electric	**3CNN3**
30kVA	190 V AC Delta, 200V AC Delta, 208V AC Delta, 220V AC Delta, 240V AC Delta	231V AC, 400V AC Wye	Floor	NEMA 3R	150 °C	Acme Electric	**49NT19**
45kVA	240V AC Delta	231V AC, 400V AC Wye	Floor	NEMA 3R	150 °C	Acme Electric	**49NT20**
45kVA	480V AC Delta	277V AC, 480V AC Wye	Floor	NEMA 3R	150 °C	Acme Electric	**49NR96**
75kVA	480V AC Delta	277V AC, 480V AC Wye	Floor	NEMA 3R	150 °C	Acme Electric	**49NT02**
225kVA	208V AC Delta	120V AC, 208V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ31**
225kVA	480V AC Delta	277V AC, 480V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ30**
225kVA	600V AC Delta	120V AC, 208V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ36**
300kVA	208V AC Delta	120V AC, 208V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ39**
300kVA	480V AC Delta	277V AC, 480V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ38**
300kVA	600V AC Delta	120V AC, 208V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ44**
500kVA	600V AC Delta	120V AC, 208V AC Wye	Floor	NEMA 1	150 °C	Square D	**45NZ63**

VA Rating	Mounting	Temp. Rise	DAYTON Item No.	ACME ELECTRIC Item No.	SQUARE D Item No.
208V AC Delta Input Voltage					
277V AC, 480V AC Wye Output Voltage					
15 kVA	Wall	115 °C	**44YV20**	—	—
30 kVA	Floor	150 °C	**44YV16**	**49NT21**	—
45 kVA	Floor	150 °C	**44YV21**	**49NT22**	—
75 kVA	Floor	150 °C	**44YV17**	**49NT23**	—
112.5 kVA	Floor	150 °C	—	**49NT24**	—
150 kVA	Floor	150 °C	—	**49NT25**	—
225 kVA	Floor	150 °C	—	**49NT26**	**45NZ32**
300 kVA	Floor	150 °C	—	**49NT27**	**45NZ40**
500 kVA	Floor	150 °C	—	—	**45NZ62**
240V AC Delta Input Voltage					
120V AC, 208V AC Wye Output Voltage					
9 kVA	Wall	115 °C	**44YV03**	**31XG71**	—
15 kVA	Wall	115 °C	**44YV12**	—	—
15 kVA	Floor	115 °C	—	**31XG72**	—
30 kVA	Floor	150 °C	**44YV06**	**49NT13**	—
45 kVA	Floor	150 °C	**44YV23**	**49NT14**	—
75 kVA	Floor	150 °C	**44YV26**	**49NT15**	—
112.5 kVA	Floor	150 °C	—	**49NT16**	—
150 kVA	Floor	150 °C	—	**49NT17**	—
225 kVA	Floor	150 °C	—	**49NT18**	**45NZ33**
300 kVA	Floor	150 °C	—	—	**45NZ41**
277V AC, 480V AC Wye Output Voltage					
30 kVA	Floor	150 °C	—	**49NT38**	—
45 kVA	Floor	150 °C	—	**49NT28**	—
75 kVA	Floor	150 °C	—	**49NT29**	—
112.5 kVA	Floor	150 °C	—	**49NT30**	—
150 kVA	Floor	150 °C	—	**49NT31**	—
480V AC Delta Input Voltage					
120V AC, 208V AC Wye Output Voltage					
3 kVA	Wall	115 °C	**44YV25**	**4WTY8**	**1H725**
6 kVA	Wall	115 °C	**44YV22**	**4WTZ1**	**1H278**
9 kVA	Wall	115 °C	**44YV11**	**4WTZ3**	**1H282**
15 kVA	Wall	115 °C	**44YV18**	—	—
30 kVA	Floor	150 °C	**44YV24**	**49NT35**	—
30 kVA	Floor	115 °C	—	**49NT03**	—
30 kVA	Floor	80 °C	—	**49NT04**	—
45 kVA	Floor	150 °C	**44YV09**	**49NT36**	—
45 kVA	Floor	115 °C	—	**49NT05**	—
45 kVA	Floor	80 °C	—	**49NT06**	—
75 kVA	Floor	150 °C	**44YU99**	**49NT37**	—
75 kVA	Floor	115 °C	—	**49NT07**	—
75 kVA	Floor	80 °C	—	**49NT08**	—
112 kVA	Floor	150 °C	**44YV13**	—	—
112.5 kVA	Floor	115 °C	—	**49NT09**	—
112.5 kVA	Floor	150 °C	—	**49NT10**	—
150 kVA	Floor	150 °C	**44YV14**	**49NT11**	—
225 kVA	Floor	150 °C	**44YV02**	**49NR97**	**45NZ35** †
225 kVA	Floor	150 °C	—	—	**45NZ34**
300 kVA	Floor	150 °C	—	**49NT12**	**45NZ42**
300 kVA	Floor	150 °C	—	—	**45NZ43** †
120V AC Center Tap, 240V AC Delta Output Voltage					
3 kVA	Wall	115 °C	—	**4WTY9**	—
6 kVA	Wall	115 °C	—	**4WTZ2**	—
9 kVA	Wall	115 °C	—	**4WTZ4**	—
30 kVA	Floor	150 °C	**44YV10**	**49NT32**	—
45 kVA	Floor	150 °C	**44YV04**	**49NT33**	—
75 kVA	Floor	150 °C	**44YV07**	**49NT34**	—
112 kVA	Floor	150 °C	**44YV15**	—	—
112.5 kVA	Floor	150 °C	—	**49NR98**	—
150 kVA	Floor	150 °C	**44YV27**	**49NR99**	—
225 kVA	Floor	150 °C	**44YV19**	**49NT01**	**45NZ37**
300 kVA	Floor	150 °C	—	—	**45NZ45**
240V AC Delta Output Voltage					
3 kVA	Wall	115 °C	**44YV05**	—	—
6 kVA	Wall	115 °C	**44YU98**	—	—
9 kVA	Wall	115 °C	**44YV08**	—	—
15 kVA	Wall	115 °C	**44YV01**	—	—

† Copper windings, all others are aluminum. ‡ NEMA 1 enclosures convertible to NEMA 3R with field installed weathershield, sold separately.

5JK13

5JK11

Line Conditioners

- Complete surge and line noise protection

By automatically regulating incoming voltage from 89 to 140VAC to provide nominal 120VAC power, conditioners keep equipment working through low-voltage (i.e., brownout) and high-voltage conditions.

Output Watts	No. of Outlets	NEMA Plug Config.	Cord Length	W	H	D	Foot-notes	Mfr. Model	Item No.
600 W	6	5-15P	6 ft	4 ¾ in	5 ½ in	4 ¾ in	1	LS 606M	**5JK13**
1,200 W	4	5-15P	7 ft	6 in	7 ¼ in	7 in	3	LC 1200	**5JK08**
1,800 W	6	5-15P	7 ft	6 in	7 in	7 in	3	LC 1800	**5JK10**
2,400 W	6	5-15P	6 ft	6 in	7 in	9 ½ in	3, 6	LC 2400	**5JK11**
2,400 W	14	5-15P	12 ft	19 in	5 ¼ in	5 in	2, 5	LCR 2400	**5JK12**

1—Has 3 LEDs (High Voltage, Normal Voltage, Low Voltage). 2—Has 5 LEDs (Very High Voltage, High Voltage, Normal Voltage, Low Voltage, Very Low Voltage). 3—Has 7 LEDs (Very High Voltage, High Voltage, Normal Voltage, Low Voltage, Very Low Voltage, Line Fault, Line OK). 5—Rack mount model. 6—Has 4 NEMA 5-15R; 2 NEMA 5-20R.

PHASE-A-MATIC

Static Phase Converters

2MV45

- No moving parts to wear out
- For light to moderate loads only
- Knockout size: ½"

Quiet, easy-to-install units run 220V, 3-phase AC motors from a 220V, 1-phase power source at ⅔ of the rated horsepower. When used with a belt-driven air compressor, the motor pulley dia. must be reduced by ⅓. For full- or near-full-horsepower applications, the converter can be used to start an additional idler motor, producing even greater horsepower. Can be used for lathes, mills, grinders, drills, saws, metalworking and woodworking equipment, printing equipment, sewing machines, food blenders, mixers, processors, meat grinders, etc.

Note: Not recommended for use in damp or wet locations. The largest motor on your machine must fall within the minimum and maximum ranges of the converter. Please call 1-800-GRAINGER (472-4643) before ordering.

HP Range	Output Amps	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
⅓ to ¾	2.8 A	5 ⅛ in	9 ½ in	2 ⅝ in	PAM-100HD	**2MV45**
¾ to 1½	5.2 A	5 ⅛ in	9 ½ in	2 ⅝ in	PAM-200HD	**2MV46**
1 to 3	9.6 A	5 ⅛ in	9 ½ in	2 ⅝ in	PAM-300HD	**2MV47**
3 to 5	15.2 A	5 ⅛ in	9 ½ in	2 ⅝ in	PAM-600HD	**2MV48**
4 to 8	22 A	5 ⅛ in	9 ½ in	2 ⅝ in	PAM-900HD	**2MV49**
8 to 12	33.6 A	5 ⅛ in	12 ¾ in	2 ⅝ in	PAM-1200HD	**2MV50**

PHASE-A-MATIC

Rotary Phase Converters

Rotary Phase Converter 3EDX1

- For heavy-load applications
- Knockout size: 1"

Provide full running 3-phase power to 220V 3-phase motors, normally with full running torque, in multiple-motor, multiple-speed, and resistive applications. Quiet operation. Easy to install. For use in metalworking, woodworking, farm, food processing, and printing equipment; pumps; air conditioners; compressors; elevators; transmitters; lasers; mills; sewing machines; etc. For multiple-motor applications, contact Grainger technical support.

Note: 460V phase converters and voltage stabilizers are available on Grainger.com®.

Output HP*	Input (Amps)	Output Amps	W (in.)	H (in.)	D (in.)	Mfr. Model	Item No.
1 hp	15 A	4.2 A	10 in	10 in	15 in	R-1	**3EDX2**
2 hp	15 A	6.7 A	10 in	10 in	15 in	R-2	**3EDX3**
3 hp	20 A	9.1 A	12 in	13 in	19 in	R-3	**3EDX4**
5 hp	30 A	13.9 A	12 in	13 in	19 in	R-5	**3EDX1**
7 hp	50 A	23 A	16 in	16 in	16 in	R-7	**3EDX5**
10 hp	60 A	28 A	16 in	16 in	16 in	R-10	**3EDX6**
15 hp	100 A	42 A	24 in	21 in	31 in	R-15	**3EDX7**
20 hp	125 A	55 A	24 in	21 in	31 in	R-20	**3EDX8**
25 hp	160 A	70 A	24 in	21 in	31 in	R-25	**3EDY1**
30 hp	200 A	82 A	24 in	21 in	31 in	R-30	**3EDY3**
40 hp	250 A	102 A	24 in	25 in	32 in	R-40	**3EDY5**
50 hp	300 A	126 A	24 in	25 in	32 in	R-50	**3EDY7**
100 hp	600 A	235 A	48 in	50 in	64 in	R-100	**3EDZ4**

***** *Typically requires sizing the converter 50% larger or more than the largest HP motor on your machine.*

6LM57

5KB73

TRIPP·LITE

Inverters and Inverter/Chargers

Hardwired units provide consistent, computer-grade AC power output from a DC source. Instantaneous peak output provides up to 200% of continuous output for short durations to start motors.

Pure Sine Wave Inverter/Chargers—Provide stable, microprocessor-controlled output and the pure sine wave power required by equipment such as variable-speed power tools and devices with PFC power supplies. Help your equipment run cooler and last longer, and help prevent the malfunctions and reduced performance that can be caused by substandard power.

Inverter/Chargers—Pass 120VAC power to equipment, keep user-supplied batteries charged, and function as automatic UPS systems when utility power is not available. Frequency control helps equipment perform at its peak. Battery charger is 3-stage selectable. Feature electronic overload shutdown and input polarity protection. Backup time is based on size of user-supplied batteries.

Utility Work Truck Inverters—Ideal for powering lights, tools, and electronic devices from your vehicle battery system. GFCI outlets. 4HHH7 is remote controllable (remote included).

Utility Work Truck Inverters/Chargers—Provide quiet mobile power directly from work truck batteries. Can be used as an alternative to portable generators as a backup power source for sump pumps and in other emergency applications. GFCI outlets. Have a built-in charger to maintain supplied batteries. Remote control included. UL Listed.

Input Voltage	Output Voltage	Output Watts	Peak Output Power	No. of Outlets	H	W	D	Mfr. Model	Item No.
Heavy-Duty Inverters with Low-Battery Auto-Off									
12VDC	115VAC	1250W	1,250 W	2	7.0 in	8.75 in	9.0 in	PV1250FC	**1ZE20**
12VDC	115VAC	2000W	4,000 W	2	7.25 in	8.5 in	16.25 in	PV2000FC	**6LM57**
24VDC	115VAC	2400W	4,800 W	2	7.25 in	8.5 in	16.25 in	PV2400FC	**5JK24**
Pure Sine Wave Inverter/Chargers									
24VDC	230VAC	3000W	6,000 W	—	10.10"	8.90"	12.40"	APSX3024SW	**19N905**
Inverter/Chargers									
12VDC	115VAC	750W	1,500 W	—	7.00"	8.75"	9.00"	RV750ULHW	**19N906**
12VDC	115VAC	750W	1,500 W	2	7.00"	8.75"	9.00"	APS750	**5KB73**
12VDC	115VAC	1250W	2,500 W	—	7.00"	8.75"	9.00"	RV1250ULHW	**19N907**
12VDC	115VAC	1250W	2,500 W	2	7.00"	8.75"	9.00"	APS1250	**5KB74**
12VDC	115VAC	1250W	2,500 W	2	7.00"	8.75"	9.00"	EMS1250UL	**19N910**
12VDC	115VAC	1500W	3,000 W	—	8.00"	10.50"	17.50"	RV1512UL	**19N908**
12VDC	115VAC	2000W	4,000 W	—	8.00"	10.50"	17.50"	MRV2012UL	**19N909**
12VDC	115VAC	2000W	4,000 W	—	7.25"	8.50"	16.25"	APS2012	**5JJ86**
24VDC	115VAC	2400W	4,800 W	—	7.25"	8.50"	16.25"	APS2424	**2GZU5**
36VDC	115VAC	3600W	7,200 W	—	7.25"	8.50"	16.25"	APS3636VR	**1AYB1**
48VDC	115VAC	2400W	4,800 W	—	7.25"	8.50"	16.75"	APS2448UL	**2GZR7**
Utility Work Truck Inverters									
12VDC	115VAC	1800W	3,600 W	2	4.0 in	6.0 in	15.0 in	PV1800GFCI	**6RHW6**
12VDC	115VAC	3000W	6,000 W	4	4.3 in	12.5 in	14.8 in	PV3000GFCI	**4HHH7**
Utility Work Truck Inverter/Chargers									
12VDC	115VAC	750W	1,500 W	2	7.00"	8.75"	9.00"	UT750UL	**4HHH8**
12VDC	115VAC	2000W	4,000 W	2	7.25"	8.50"	16.25"	UT2012UL	**4HHJ1**
Remote Control Module									
For Use With Tripp-Lite Inverters, Includes 25 ft Master Override Cord, 50 ft Remote Control Cord, Face Plate, LED Labels and Instruction Manual, Remote Control Module								APSRM4	**2GZU6**

SL Silver Line Series Power Supplies

SOLAHD

- Adjustable input voltages from 100, 120, 200, 230, or 240VAC
- 60/50 Hz
- Operating temp. range: 0° to 50°C
- Short-circuit and overvoltage protection on 5V outputs
- Low output noise: 3mV

Industry-standard footprint has easy screw terminal connection. Linear, low-noise technology provides quiet, smooth DC performance. Tight load and line regulation at 0.05%. Suitable for industrial control and process systems. UL and C-UL Recognized, and CE Certified.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
5V DC	3	100/120/220/230/240 V AC	4.84 in	3.99 in	1.62 in	SLS-05-030-1T	**5JV98**
5V DC	6	100/120/220/230/240 V AC	4.87 in	5.62 in	2.5 in	SLS050601T	**10G801**
5V DC	9	100/120/220/230/240 V AC	7 in	4.87 in	2.75 in	SLS-05-090-1T	**3TA29**
12/15V DC	1.7/1.5	100/120/220/230/240 V AC	4.84 in	3.99 in	1.62 in	SLS-12-017T	**5JV99**
12V DC	3.4	100/120/220/230/240 V AC	4.87 in	5.62 in	2.5 in	SLS-12-034T	**5JW01**
12V DC	5.1	100/120/220/230/240 V AC	7 in	4.87 in	2.75 in	SLS12051T	**10G802**
12V DC	6.8	100/120/220/230/240 V AC	9 in	4.87 in	2.75 in	SLS-12-068T	**3TA30**
15V DC	4.5	100/120/220/230/240 V AC	7 in	4.87 in	2.75 in	SLS15045T	**10G803**
15V DC	6	100/120/220/230/240 V AC	9 in	4.87 in	2.75 in	SLS15060T	**10G804**
24V DC	1.2	100/120/220/230/240 V AC	4.84 in	3.99 in	1.62 in	SLS-24-012T	**5JW02**
24V DC	2.4	100/120/220/230/240 V AC	4.87 in	5.62 in	2.5 in	SLS-24-024T	**5JW03**
24V DC	3.6	100/120/220/230/240 V AC	7 in	4.87 in	2.75 in	SLS-24-036T	**5JW04**
24V DC	4.8	100/120/220/230/240 V AC	9 in	4.87 in	2.75 in	SLS-24-048T	**5JW05**
24V DC	7.2	100/120/220/230/240 V AC	13.98 in	4.87 in	2.75 in	SLS-24-072T	**5JW06**
24V DC	12	100/120/220/230/240 V AC	16.85 in	4.92 in	3.46 in	SLS-24-120T	**5JW07**

5JV98

33NT16

33NT10

Dayton

Power Supplies

Designed with narrow width that conserves valuable space on DIN rail. Adjustable output voltage compensates for voltage drop. Touch-safe enclosure and terminals. Capable of parallel connection to provide redundancy for critical load applications.

Output Voltage	Output Amps	Input Voltage	W	H	D	Item No.
Plastic Case						
12V DC	1.25	90 to 264 V AC	0.9 in	3.54 in	4.02 in	**33NT15**
12V DC	2.5	90 to 264 V AC	0.9 in	3.54 in	4.02 in	**33NT16**
12V DC	4.17	90 to 264 V AC	1.26 in	3.54 in	4.02 in	**33NT17**
24V DC	0.63	90 to 264 V AC	0.9 in	3.54 in	4.02 in	**33NT18**
24V DC	1.25	90 to 264 V AC	0.9 in	3.54 in	4.02 in	**33NT19**
24V DC	2.1	90 to 264 V AC	1.26 in	3.54 in	4.02 in	**33NT20**
48V DC	1	90 to 264 V AC	1.26 in	3.54 in	4.02 in	**33NT21**
Metal Case						
24V DC	2.5	90 to 264 V AC	1.97 in	4.88 in	4.13 in	**33NT10**
24V DC	3.3	90 to 264 V AC	1.26 in	4.88 in	4.02 in	**33NT11**
24V DC	5	90 to 264 V AC	1.57 in	4.88 in	4.45 in	**33NT12**
24V DC	10	90 to 264 V AC	2.36 in	4.88 in	4.45 in	**33NT13**
24V DC	20	90 to 264 V AC	6.14 in	4.96 in	5.12 in	**33NT14**

10G785

SDN Series DC Power Supplies (DIN Mounted)

SolaHD

- Can be connected in parallel
- 24VDC output models are adjustable from 22.5 to 28VDC
- C-series: ATEX, class 2/zone 2 per NEC codes and IECEx

Feature narrow width on DIN rail for space-critical applications, rugged metal case, and DIN connector. Large, sturdy, multiple-point screw terminations for quick connection. High-efficiency >88%, switching power supply. Extra boost capacity for high inrush loads without foldback or shutdown. Auto-select voltage input. For industrial control and process control applications including DC input solenoids, valves, switches (prox switches), relays, PLCs, and sensors. UL and C-UL Listed, and CE Certified. Meet SEMI F47 SAG Immunity.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
C Series							
24V DC	5	85 to 264 V AC	1.97 in	4.85 in	4.36 in	SDN5-24-100C	**5DJL8**
24V DC	10	85 to 264 V AC	2.36 in	4.85 in	4.36 in	SDN10-24-100C	**5DJL9**
24V DC	10	380 to 480 V AC	2.36 in	4.85 in	4.36 in	SDN10-24-480C	**10G785**
24V DC	20	85 to 264 V AC	3.42 in	4.85 in	4.98 in	SDN20-24-100C	**5DJN0**
24V DC	40	380 to 480 V AC	7.09 in	4.85 in	4.66 in	SDN40-24-480C	**10G790**
P Series							
12V DC	9	115 to 230 V AC	2.56 in	4.88 in	4.55 in	SDN9-12-100P	**5DJL5**
12V DC	16	115 to 230 V AC	3.23 in	4.88 in	4.55 in	SDN16-12-100P	**5DJL7**
24V DC	2.5	85 to 264 V AC	1.97 in	4.88 in	4.55 in	SDN2.5-24-100P	**3WY62**
24V DC	3.8	115 to 230 V AC	2.56 in	4.88 in	4.55 in	SDN4-24-100LP	**3WY63**
24V DC	5	115 to 230 V AC	2.56 in	4.88 in	4.55 in	SDN5-24-100P	**3WY64**
24V DC	10	115 to 230 V AC	3.26 in	4.88 in	4.55 in	SDN10-24-100P	**3WY65**
48V DC	5	115 to 230 V AC	3.23 in	4.88 in	4.55 in	SDN5-48-100P	**5DJL6**
Redundant Modules							
24V DC	20	24V DC	1.97 in	4.88 in	4.55 in	SDN 2.5-20RED	**10G787**

4FB82

1GYK4

SDP Series DC Power Supplies (DIN Mounted)

SolaHD

- Class 2 limited power source
- Adjustable output voltage
- Operating temp. range: -10° to 60°C, full power
- Short-circuit protection
- Low output noise: <50mV p/p
- DC OK signal

Easy-to-install units provide clean, stable DC power with a special industrial overload design that can start high inrush loads without oversizing. Compact and lightweight, with no derating necessary until above 60°C. DIN rail mount. cULus Recognized Component. Meet UL, C-UL, CE, and Class 2 NFPA 70, except 1GYK4 meets UL, C-UL, and CE standards.

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
5 to 6V DC	5	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP5-5-100T	**4FB83**
10 to 12V DC	2.5 to 3	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP2-12-100T	**4DA92**
12 to 15V DC	3.4 to 4.2	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP3-15-100T	**4FB84**
24 to 28V DC	0.6	85 to 264 V AC	0.9 in	2.95 in	3.8 in	SDP06-24-100T	**4FB82**
24 to 28V DC	1.3	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP1-24-100T	**4DA90**
24 to 28V DC	2.1	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP2-24-100T	**4DA91**
24 to 28V DC	3.8	176 to 264 V AC, 85 to 132 V AC	2.85 in	2.95 in	3.8 in	SDP4-24-100LT	**1GYK4**
24 to 28V DC	4.2	176 to 264 V AC, 85 to 132 V AC	2.85 in	2.95 in	3.8 in	SDP4-24-100RT	**10G792**
48 to 56V DC	1	85 to 264 V AC	1.77 in	2.95 in	3.58 in	SDP1-48-100T	**4FB85**

31HL47

DC Power Supplies (DIN Mounted)

EATON

- 60/50 Hz
- Operating temp. range: -20° to 80°C
- Short-circuit and overvoltage protection
- Low output noise: <50mV
- DC OK signal

Switching-style units provide clean, stable DC power for a variety of industrial applications. Simple screw terminal connections allow easy installation, and the narrow footprint permits installation in applications where space is at a premium. Hold up time: >22 msec. UL Listed. CSA and CE Certified. IEC, EN.

Output Voltage	Output Amps	Peak Amps	Input Voltage	Case Material	W	H	D	Mfr. Model	Item No.	
1-Phase										
12V DC	1.25	1.88	100 to 240 V AC	Plastic Case	1.26 in	3.94 in	4.76 in	PSG15E12SP	**31HL49**	
12V DC	2.50	3.75	100 to 240 V AC	Plastic Case	1.26 in	3.98 in	4.76 in	PSG30E12SP	**31HL53**	
12V DC	5	7.50	100 to 240 V AC	Aluminum Case	1.26 in	4.53 in	4.76 in	PSG60E12SM	**31HL60**	
12V DC	8.30	12.49	100 to 240 V AC	Aluminum Case	1.97 in	4.69 in	4.76 in	PSG100E12SM	**31HL45**	
24V DC	2.50	3.75	100 to 240 V AC	Aluminum Case	1.26 in	4.72 in	4.76 in	PSG60E	**31HL59**	
24V DC	2.50	3.75	100 to 240 V AC	Plastic Case	1.26 in	4.45 in	4.76 in	PSG60E24SP	**31HL62**	
24V DC	3.75	3.75	100 to 240 V AC	Aluminum Case	1.26 in	4.92 in	4.76 in	PSG60E24RM	**31HL61**	*
24V DC	5	7.5	100 to 240 V AC	Aluminum Case	1.97 in	4.84 in	4.76 in	PSG120E24RM	**31HL47**	*
24V DC	5	7.50	100 to 240 V AC	Aluminum Case	1.26 in	4.72 in	4.76 in	PSG120E	**31HL46**	
24V DC	10	15	100 to 240 V AC	Aluminum Case	3.35 in	4.69 in	4.76 in	PSG240E	**31HL50**	
24V DC	10	15	100 to 240 V AC	Aluminum Case	3.35 in	4.88 in	4.76 in	PSG240E24RM	**31HL51**	*
24V DC	20	30	100 to 240 V AC	Aluminum Case	6.3 in	4.53 in	4.76 in	PSG480E	**31HL55**	
24V DC	20	30	100 to 240 V AC	Aluminum Case	5.67 in	4.88 in	4.76 in	PSG480E24RM	**31HL56**	*
3-Phase										
24V DC	2.50	3.75	320 to 600 V AC	Aluminum Case	1.97 in	4.61 in	4.76 in	PSG60F24RM	**31HL63**	*
24V DC	5	7.50	320 to 600 V AC	Aluminum Case	1.97 in	4.61 in	4.76 in	PSG120F24RM	**31HL48**	*
24V DC	10	15	320 to 600 V AC	Aluminum Case	2.76 in	4.61 in	4.76 in	PSG240F24RM	**31HL52**	*
24V DC	20	30	320 to 600 V AC	Aluminum Case	5.51 in	4.61 in	4.76 in	PSG480F24RM	**31HL57**	*
24V DC	40	60	320 to 600 V AC	Aluminum Case	10.04 in	4.61 in	4.76 in	PSG960F24RM	**31HL65**	*
Buffer Module										
24V DC	20	20	24 V DC	Aluminum Case	1.97 in	4.8 in	4.76 in	PSG480B24RM	**31HL54**	*
NEC Class 2										
24V DC	2.50	2.50	100 to 240 V AC	Plastic Case	1.26 in	4.69 in	4.76 in	PSG60N24RP	**31HL64**	*
Redundancy Module										
24V DC	20	20	24 to 48 V DC	Aluminum Case	1.97 in	4.8 in	4.76 in	PSG480R24RM	**31HL58**	*
24V DC	40	40	24 to 48 V DC	Aluminum Case	1.97 in	4.8 in	4.76 in	PSG960R24RM	**31HL66**	*

** Finger safe terminals.*

PULS

Switching Power Supplies

C-SERIES

These power supplies are highly reliable in a compact metal housing with a power range from 80 to 480W. Additional features include high efficiency, long life, 20% current reserves, extremely low AC inrush, screw terminals, Class I, Div. 2 approval and a temperature range of -25° to 70°C. Units are available in single or 3-phase with output voltages from 12 to 56VDC.

MINILINE

These compact, lightweight power supplies in a robust plastic housing cover low-power requirements from 15 to 100W. Additional features include a wide temperature range with select models rated down to -40°C, spring clamp terminals on standard models, and screw terminals on the compact models. These units are available with output voltages from 5 to 56VDC with a single-phase input or select models with 380-480VAC.

Q-SERIES

With state-of-the-art technology and flexibility for demanding tasks, these power supplies are highly reliable in a compact metal housing with a power range from 80 to 960W. Additional features include outstanding efficiency, long life, 50% current reserves, extremely low AC inrush, DC OK contact and a temperature range of -25° to 70°C. Units are available in single or 3-phase input with output voltages from 12 to 55VDC and an extensive agency approval package.

SILVERLINE

Designed for general applications with a proven track record for over 20 years, the SilverLine model offers reliability in a metal housing. Additional features include high efficiency, long life, 20% current reserves, screw terminals and a temperature range of -10° to 70°C. Units are available in single or 3-phase input with output voltages from 12 to 56VDC.

45ET77

45ET70

45ET86

Output Voltage	Output Amps	Input Voltage	W	H	D	Mfr. Model	Item No.
C-Series							
24 to 28V DC	3.3	100 to 240 V AC	32 mm	124 mm	102 mm	CS3.241	**45ET79**
24 to 28V DC	5.0	100 to 120 V AC, 200 to 240 V AC	32 mm	124 mm	117 mm	CS5.241	**45ET80**
24 to 28V DC	10.0	100 to 120 V AC, 200 to 240 V AC	60 mm	124 mm	117 mm	CS10.241	**45ET77**
24 to 28V DC	10.0	380 to 480 V AC	62 mm	124 mm	117 mm	CT10.241	**45ET81**
24 to 28V DC	20.0	100 to 240 V AC	65 mm	124 mm	127 mm	CPS20.241	**45ET76**
48 to 52V DC	5.0	100 to 120 V AC, 200 to 240 V AC	60 mm	124 mm	117 mm	CS10.481	**45ET78**
MiniLine							
+/-12/15V DC	1.4-2.8	100 to 240 V AC	45 mm	75 mm	91 mm	ML30.106	**45ET89**
5 to 5.5V DC	3.0	100 to 240 V AC	22.5 mm	75 mm	91 mm	ML15.051	**45ET70**
5 to 5.5V DC	5.0	100 to 240 V AC	45 mm	75 mm	91 mm	ML30.101	**45ET87**
10 to 12V DC	3.0	100 to 240 V AC	45 mm	75 mm	91 mm	ML30.102	**45ET88**
12 to 15V DC	1.3	100 to 240 V AC	22.5 mm	75 mm	91 mm	ML15.121	**45ET71**
12 to 15V DC	4.5	100 to 240 V AC	45 mm	75 mm	91 mm	ML60.121	**45ET74**
12 to 15V DC	7.5	100 to 120 V AC, 200 to 240 V AC	72.5 mm	75 mm	103 mm	ML100.102	**45ET86**
24 to 28V DC	0.63	100 to 240 V AC	22.5 mm	75 mm	91 mm	ML15.241	**45ET72**
24 to 28V DC	1.3	100 to 240 V AC	22.5 mm	75 mm	91 mm	ML30.241	**45ET73**
24 to 28V DC	2.5	100 to 240 V AC	45 mm	75 mm	91 mm	ML60.241	**45ET75**
24 to 28V DC	3.9	100 to 120 V AC, 200 to 240 V AC	72.5 mm	75 mm	103 mm	ML95.100	**45ET91**
24 to 28V DC	4.2	100 to 120 V AC, 200 to 240 V AC	72.5 mm	75 mm	103 mm	ML100.100	**45ET85**
48 to 56V DC	1.05	100 to 240 V AC	45 mm	75 mm	91 mm	ML50.105	**45ET90**
Q-Series							
12 to 15V DC	15.0	100 to 240 V AC	60 mm	124 mm	117 mm	QS10.121	**45ET82**
24 to 28V DC	20	380 to 480 V AC	65 mm	124 mm	127 mm	QT20.241	**45ET83**
24 to 28V DC	40.0	380 to 480 V AC	110 mm	124 mm	127 mm	QT40.241	**45ET84**
SilverLine							
24V DC	4.0	100 to 120 V AC, 200 to 240 V AC	65 mm	124 mm	102 mm	SL4.100	**45ET92**

OMRON
INDUSTRIAL AUTOMATION

Switching Power Supplies

- 100-240VAC, 60 Hz
- DIN rail mount
- Temp. range: -13° to 149°F

Versatile units provide a wide range of power ratings, output voltages, and styles, matching most design and performance requirements. UL Listed (508), and CE Certified. S8VS and S8VM models are also C-UL Listed. S8JX models are also CSA and EN/VDE Approved.

S8VK SERIES

- Class 2 output on 15, 30, and 60W models

This compact class has a robust design and construction to withstand harsh environments and provide stable operation over a wide operating temperature range: -40° to 158°F. Minimal wiring requirements and easy 1-handed mounting with enhanced DIN rail mounting clips.

COMPACT PLASTIC CASE, S8VS SERIES

- Class 2 output on 60W models
- SEMI F47

Feature LED display maintenance forecast monitor, which shows output voltage, current, peak current, and lifetime in years.

Compact Case
21XP04

Compact Plastic Case with Maintenance Monitor
2REJ8

Output Voltage	Output Amps	Input Voltage	Power Rating	W	H	D	Mfr. Model	Item No.
S8VK, Compact Case								
5V DC	3	100 to 240 V AC	15W	22 mm	90 mm	90 mm	S8VK-G015	**21XP02**
5V DC	5	100 to 240 V AC	30W	32 mm	90 mm	90 mm	S8VK-G030	**21XP05**
12V DC	1.2	100 to 240 V AC	15W	22 mm	90 mm	90 mm	S8VK-G015	**21XP03**
12V DC	2.5	100 to 240 V AC	30W	32 mm	90 mm	90 mm	S8VK-G030	**21XP06**
12V DC	4.5	100 to 240 V AC	60W	32 mm	90 mm	110 mm	S8VK-G060	**21XP08**
24V DC	0.65	100 to 240 V AC	15W	22 mm	90 mm	90 mm	S8VK-G015	**21XP04**
24V DC	1.3	100 to 240 V AC	30W	32 mm	90 mm	90 mm	S8VK-G030	**21XP07**
24V DC	2.5	100 to 240 V AC	60W	32 mm	90 mm	110 mm	S8VK-G060	**21XP09**
24V DC	5	100 to 240 V AC	120W	40 mm	125 mm	122 mm	S8VK-G120	**21XP10**
24V DC	10	100 to 240 V AC	240W	60 mm	125 mm	150 mm	S8VK-G240	**21XP11**
24V DC	20	100 to 240 V AC	480W	95 mm	125 mm	150 mm	S8VK-G480	**21XP13**
48V DC	5	100 to 240 V AC	240W	60 mm	125 mm	150 mm	S8VK-G240	**21XP12**
48V DC	10	100 to 240 V AC	480W	95 mm	125 mm	150 mm	S8VK-G480	**21XP14**
S8VS Series, Compact Plastic Case with Maintenance Monitor								
24V DC	2.5	100 to 240 V AC	60W	40 mm	95 mm	108 mm	S8VS-060A	**2REJ8**
24V DC	3.75	100 to 240 V AC	90W	50 mm	115 mm	121 mm	S8VS-090A	**2REK1**
24V DC	5	100 to 240 V AC	120W	50 mm	115 mm	121 mm	S8VS-120A	**2REK3**
24V DC	7.5	100 to 240 V AC	180W	75 mm	115 mm	125 mm	S8VS-180A	**2REK5**
24V DC	10	100 to 240 V AC	240W	3.94 in	115 mm	125 mm	S8VS-240A	**2REK7**
24V DC	20	100 to 240 V AC	480W	150 mm	115 mm	127 mm	S8VS-480A	**21XN77**

Plastic Case
36T736

Phaseo Power Supplies

Schneider Electric

- 60/50 Hz
- DIN rail mount

Feature LED status indicator light. UL Listed, CSA and CE Certified.

Output Voltage	Output Amps	Phase	Input Voltage	W	H	D	Mfr. Model	Item No.
Plastic Case								
24V DC	3	Single	100 to 120 V AC, 200 to 500 V AC	4.72 in	5.27 in	1.73 in	ABL8RPS24030	**36T736**
24V DC	5	Single	100 to 120 V AC, 200 to 500 V AC	4.72 in	5.27 in	2.2 in	ABL8RPS24050	**36T737**
24V DC	10	Single	100 to 120 V AC, 200 to 500 V AC	5.51 in	5.27 in	3.35 in	ABL8RPS24100	**5AET6**
24V DC	20	Single	100 to 120 V AC, 200 to 240 V AC	5.51 in	5.63 in	5.71 in	ABL8RPM24200	**5AET8**
24V DC	20	Three	380 to 500 V AC	6.1 in	5.63 in	3.74 in	ABL8WPS24200	**36T738**
24V DC	40	Three	380 to 500 V AC	6.1 in	5.63 in	6.5 in	ABL8WPS24400	**36T739**

5JK22

Precision-Regulated DC Power Supplies

TRIPP·LITE

Efficiently convert 120VAC to 13.8VDC while protecting against overcurrent. Crowbar protection on units larger than 15A prevents damage to connected equipment. Regulated output voltage maintains up to 95% of no-load value. A heavy-duty power transformer provides complete isolation from noise on incoming AC power. Chassis-mount fuse included. 30EF37 is programmable and includes instruction manual with warranty information.

Output Volts (DC)	Output Current (A)	Input Voltage	W	H	D	Mfr. Model	Item No.
13.8V	3 A	120	3.5 in	5.5 in	7.0 in	PR3UL	**30EF37**
13.8V	7 A	120V AC	6.5 in	3.75 in	7.5 in	PR 7	**5JK22**
13.8V	9.5 A	120V AC	6.75 in	4.5 in	7.75 in	PR 12	**5JK18**
13.8V	20 A	120V AC	6.75 in	6.75 in	10.25 in	PR 25	**5JK19**
13.8V	40 A	120V AC	10.5 in	6.75 in	11.5 in	PR 40	**5JK20**
13.8V	60	120V AC	10.5 in	6.75 in	11.5 in	PR 60	**5JK21**

12A051

12A042

SIEMENS

SITOP Power Supplies

Feature a slim, space-saving design with high efficiencies across the entire load range. The Compact models reduce temperature dissipation in a cabinet and save energy costs. These switched-mode power supplies have plug-in terminals for simple electrical connection and minimized connection time. Ideal for low-power applications. The Modular models feature power boost functionality that supplies up to 3 times the rated current, allowing free start-up of loads with high inrush current. They also offer a robust metal design, and a comprehensive set of certifications. Ideal for demanding and complex applications.

Output Voltage	Power Rating	Input Voltage	Mounting	Output Amps	Peak Amps	Hold Up Time	H	W	D	Mfr. Model	Item No.
Compact Switching, Metal Case											
	140W	176 to 550 V AC, 85 to 264 V AC	DIN Rail	5	15	25 msec	4.92 in	2.75 in	4.76 in	6EP13333BA10	**38UZ91**
	240W	176 to 550 V AC, 85 to 264 V AC	DIN Rail	10	30	—	—	—	—	6EP13343BA10	**38UZ92**
24V DC	480W	85 to 275 V AC, 88 to 350 V DC	DIN Rail	20	60	>20 msec	125 mm	90 mm	125 mm	6EP1336-3BA10	**12A048**
	960W	176 to 264 V AC, 85 to 132 V AC	DIN Rail	40	120	>20 msec	125 mm	240 mm	125 mm	6EP1337-3BA00	**12A049**
	960W	320 to 575 V AC	DIN Rail	40	120	>15 msec	125 mm	150 mm	150 mm	6EP1437-3BA10	**12A051**
48V DC	960W	320 to 575 V AC	DIN Rail	20	60	>6 msec	125 mm	240 mm	125 mm	6EP1457-3BA00	**12A053**
Compact Switching, Plastic Case											
12V DC	78W	110 to 300 V DC, 120 to 230 V AC	DIN Rail	6.5	31	>20 msec	80 mm	52 mm	100 mm	6EP13225BA10	**20AZ53**
	14W	110 to 300 V DC, 85 to 264 V AC	DIN Rail	0.6	1	>20 msec	80 mm	22 mm	100 mm	6EP1331-5BA00	**12A042**
	30W	110 to 300 V DC, 85 to 264 V AC	DIN Rail	1.3	3.1	>20 msec	80 mm	30 mm	100 mm	6EP1331-5BA10	**12A043**
	60W	110 to 300 V DC, 85 to 264 V AC	DIN Rail	2.5	3	>20 msec	80 mm	45 mm	100 mm	6EP1332-5BA00	**12A044**
24V DC	60W	120 to 230 V AC	DIN Rail	2.5	27	>20 msec	125 mm	32 mm	120 mm	6EP13321LB00	**20AZ55**
	96W	110 to 300 V DC, 85 to 264 V AC	DIN Rail	4	4.8	>20 msec	80 mm	52 mm	100 mm	6EP1332-5BA10	**12A045**
	120W	132 to 264 V AC, 93 to 187 V AC	DIN Rail	5	32	>20 msec	125 mm	50 mm	120 mm	6EP13331LB00	**20AZ56**
	240W	132 to 264 V AC, 93 to 187 V AC	DIN Rail	10	65	>20 msec	125 mm	70 mm	120 mm	6EP13341LB00	**20AZ57**
Harsh Environment, Switching, Aluminum Case, IP Rating 67											
24V DC	120W	120 to 230 V AC	Wall	5	15	40 msec	181 mm	120 mm	60.5 mm	6EP13337CA00	**32UL18**
	192W	120 to 230 V AC	Wall	8	15	40 msec	181 mm	120 mm	60.5 mm	6EP13347CA00	**32UL19**
Modular Switching, Aluminum Case											
12V DC	36W	85 to 264 V AC	Wall	3	60	>15 msec	98 mm	97 mm	38 mm	6EP13211LD00	**20AZ58**
	100W	85 to 264 V AC	Wall	8.3	75	>15 msec	158 mm	97 mm	38 mm	6EP13221LD00	**20AZ59**
	50W	100 to 240 V AC	Wall	2.1	60	>15 msec	128 mm	97 mm	38 mm	6EP13311LD00	**20AZ60**
	75W	85 to 264 V AC	Wall	3.1	60	>15 msec	128 mm	97 mm	38 mm	6EP13321LD00	**20AZ61**
24V DC	100W	85 to 264 V AC	Wall	4.1	75	>15 msec	158 mm	97 mm	38 mm	6EP13321LD10	**20AZ62**
	150W	85 to 264 V AC	Wall	6.2	75	>15 msec	178 mm	97 mm	38 mm	6EP13331LD00	**20AZ63**
	300W	85 to 264 V AC	Wall	12.5	60	>15 msec	199 mm	105 mm	41 mm	6EP13341LD00	**20AZ64**

UPS Systems

Provide cost-effective backup power and power protection for critical equipment. Agency approved.

STANDBY

For basic battery backup to support individual computers and PLC applications. ECO high-efficiency models 4HHH4, 4HHH5, and 4HHH6 support green energy savings with select surge-only outlets that can be configured to automatically power off.

LINE INTERACTIVE

Provide nominal, conditioned 120VAC for applications in which fluctuating voltage (low/high) affects equipment operation. Units also provide backup power during power blackout conditions.

SMART TRUE-ON-LINE

For mission-critical applications. Double-conversion online operation with zero transfer time to battery isolates sensitive equipment from every power problem.

LINE INTERACTIVE

Meet strict leakage requirements for medical equipment used in nonlife-support applications (UL 60601-1). Keep computers working through routine emergency power checks, low voltage (brownout), and high voltage conditions without using battery power. Also provide portable power for computers on carts.

Standby, ECO High-Efficiency 4HHH4

Intelligent Line Interactive 5JK33

Smart True-Online 3WA13

VA Rating	Watts	Input Voltage	Backup Time (Half/Full Load)	NEMA Plug Config.	No. of Outlets	W	H	D	Footnotes	Mfr. Model	Item No.
Standby											
350.0 VA	180.0 W	120V AC	10 min/2.5 min	5-15P	6	8.0 in	3.0 in	6 in	4,6	BC350	**30UJ37**
350.0 VA	180.0 W	120V AC	11 min/3 min	5-15P	6	8.0 in	3.0 in	6 in	4,6	ECO350UPS	**4HHH4**
350.0 VA	180.0 W	120V AC	12 min/4 min	5-15P	6	4 in	4 in	7 in	4,6	INTERNET350U	**4GU32**
550.0 VA	300.0 W	120V AC	10 min/3.5 min	5-15P	10	11 in	3 in	6 in	4,6	ECO550UPS	**4HHH5**
550.0 VA	300.0 W	120V AC	10 min/3.5 min	5-15P	8	11 in	3 in	6 in	4,6,9	ECO550UPSTAA	**6FXL7**
550.0 VA	300.0 W	120V AC	10 min/3.5 min	5-15P	8	11 in	3 in	6 in	4,6	INTERNET550U	**4GU33**
600.0 VA	375.0 W	120V AC	11.1 min/3 min	5-15P	6	5 in	11 in	8 in	4,8	BC600SINE	**13J033**
650.0 VA	325.0 W	120V AC	10 min/3 min	5-15P	8	11 in	4 in	6 in	4,6,8	ECO650LCD	**13J028**
750.0 VA	450.0 W	120V AC	11.4 min/2.4 min	5-15P	12	12 in	3 in	7 in	4,6	INTERNET750U	**30UJ42**
750.0 VA	450.0 W	120V AC	11.5 min/2.5 min	5-15P	12	12 in	3 in	7 in	4,6	ECO750UPS	**4HHH6**
750.0 VA	450.0 W	120V AC	11.5 min/2.5 min	5-15P	12	12 in	3 in	7 in	4,6,9	ECO750UPSTAA	**6FXL8**
850.0 VA	425.0 W	120V AC	13 min/2.8 min	5-15P	12	12.0 in	4 in	7.0 in	4,6,8	ECO850LCD	**13J029**
Line Interactive with Voltage Regulation											
1.0 kVA	500.0 W	120V AC	14 min/3.5 min	5-15P	8	5 in	11 in	8 in	4,6	OMNIVS1000	**30UJ44**
1.5 kVA	940.0 W	120V AC	13 min/4.5 min	5-15P	8	7 in	14 in	8 in	4,6,9	OMNIVS1500XLTAA	**6FXL9**
1.5 kVA	810.0 W	120V AC	24 min/7.5 min	5-15P	10	6 in	8.0 in	15 in	4,6	OMNI1500LCDT	**36HV95**
2.2 kVA	1.92 kW	120V AC, 230V AC	30 min/12 min	5-20P/C20	8	18 in	5 in	25 in	3,4,8	SM2200RMDVTAA	**14A327**
500.0 VA	300.0 W	120V AC	11 min/5 min	5-15P	3	5 in	11 in	8 in	4	OMNI500ISO	**2GZR2**
500.0 VA	300.0 W	120V AC	14.6 min/4 min	5-15P	6	5 in	9 in	7.0 in	—	OMNISMART500	**36HV94**
550.0 VA	300.0 W	120V AC	9 min/3 min	5-15P	8	11 in	4 in	6.0 in	4,6	AVR550U	**1AYA4**
650.0 VA	350.0 W	120V AC	12 min/3.5 min	5-15P	8	4 in	12.0 in	7 in	4	OMNI650LCD	**15D973**
700 VA	480 W	120 V AC	16.5 min/3 min		8	140 mm	191 mm	381 mm	—	OMNISMART700TSU	**783X66**
750.0 VA	450.0 W	120V AC	10 min/3 min	5-15P	12	12.0 in	4.0 in	7.0 in	4	AVR750U	**9FG79**
900.0 VA	475.0 W	120V AC	10 min/3 min	5-15P	8	4 in	12.0 in	7 in	4	OMNI900LCD	**2GZR1**
Intelligent Line Interactive											
1.0 kVA	500.0 W	120V AC	9 min/3 min	5-15P	8	4 in	12.0 in	7 in	4,6,9	SMART1000LCDTAA	**6FXN4**
1.0 kVA	500.0 W	120V AC	10 min/3 min	5-15P	8	4 in	12.0 in	7 in	4,6,15	Smart1000LCD	**1AYA6**
1.05 kVA	705.0 W	120V AC	23 min/8 min	5-15P	6	7 in	14 in	7 in	4,12	SMART 1050 NET	**5JK30**
1.5 kVA	900.0 W	120V AC	13 min/3.5 min	5-15P	8	4 in	17 in	11 in	3,4,6	Smart1500LCD	**1AYA5**
1.5 kVA	900.0 W	120V AC	20 min/8 min	5-15P	8	7 in	10 in	13 in	4,6,8	SMART1500SLT	**30UJ52**
2.2 kVA	1.6 kW	120V AC	13 min/5 min	5-20P	7	9 in	11 in	13 in	3,4,7,8	SMART2200SLT	**6FXP6**
2.2 kVA	1.6 kW	120V AC	13 min/5 min	5-20P	7	9 in	11 in	13 in	3,4,7,8,9	SMART2200SLTAA	**6FXN7**
2.2 kVA	1.77 kW	120V AC	27 min/11 min	5-15P	6	9.0 in	17.0 in	13 in	1,3,10,12	SMART 2200 NET	**5JK33**
550.0 VA	300.0 W	120V AC	15 min/4 min	5-15P	6	6 in	5.0 in	7 in	4,6	SMART550USB	**3WA17**
700.0 VA	450.0 W	120V AC	55 min/22 min	5-15P	6	9.0 in	10 in	13 in	3,4,7,8,9	SMART700DV	**6FXP0**
750.0 VA	450.0 W	120V AC	11 min/3 min	5-15P	6	5 in	11 in	8 in	4,6	SMART750USB	**6FXP7**
750.0 VA	450.0 W	120V AC	11 min/3 min	5-15P	6	5 in	11 in	8 in	4,6,9	SMART750USBTAA	**6FXP1**
Intelligent Line Interactive, Rack Mount											
1.0 kVA	640.0 W	120V AC	14 min/4 min	5-15P	6	18 in	2 in	17 in	3,4,10,12	SMART1000RM1U	**5JK31**
1.0 kVA	700.0 W	120V AC	17 min/7 min	5-15P	6	18 in	4 in	14 in	3,4,7,8,9	SM1000RM2UTAA	**6FXN0**
1.5 kVA	900.0 W	120V AC	12 min/4 min	5-15P	8	17 in	4 in	11 in	3,4,6	SMART1500LCDXL	**15D972**
1.5 kVA	1.0 kW	120V AC	19 min/7 min	5-15P	8	18 in	4 in	14 in	3,4,10,12	Smart1500RM2U	**1AYA8**
1.5 kVA	1.0 kW	120V AC	21 min/7.5 min	5-15P	8	18 in	4 in	14 in	3,4,7,8,9	SM1500RMXL2UTAA	**6FXN1**
2.2 kVA	1.92 kW	120V AC	12 min/4.5 min	5-15P	4	17 in	3 in	20 in	4,8	SMART2200RM2U	**30UJ55**
2.2 kVA	1.6 kW	120V AC	16 min/6 min	5-20P	8	18 in	4 in	19.0 in	3,4,7,8,9	SM2200RMXL2UTAA	**6FXN2**
2.2 kVA	1.6 kW	120V AC	16 min/6 min	5-20P	8	18 in	4 in	19.0 in	1,2,3,4,10,12	Smart2200RMXL2U	**1AYA9**
3.0 kVA	2.88 kW	120V AC	10 min/3 min	L5-30P	9	18 in	4 in	19.0 in	3,4,7,8,9	SM3000RMXL2UTAA	**6FXN3**
3.0 kVA	2.25 kW	120V AC	11 min/4 min	L5-30P	9	17.0 in	4 in	19.0 in	1,3,4,10,12	SMART3000RM2U	**5JK35**
5.0 kVA	4.0 kW	208V AC	38 min/16 min	L6-30P	14	18 in	5 in	23 in	3,4,9	SMART5000RT3U	**6FXN8**
500.0 VA	300.0 W	120V AC	8 min/3 min	5-15P	7	18 in	2 in	12 in	3,4,10,12	SMART500RT1U	**4GU31**
750.0 VA	450.0 W	120V AC	13 min/5 min	5-15P	6	18 in	2 in	17 in	3,4,10,12	Smart750RM1U	**1AYA7**
Smart True-On-Line/Double Conversion											
1.5 kVA	1.2 kW	120V AC	14 min/4.5 min	5-15P	6	9.0 in	10 in	20 in	4,6,8	SU1500XL	**30UJ70**
3.0 kVA	2.4 kW	110V AC, 120V AC	14 min/5 min	L5-30P	9	9.0 in	10 in	21 in	1,2,3,4,6,10,12	SU3000XL	**2GZR5**
Smart True-On-Line/Double Conversion, Rack Mount											
1.0 kVA	800.0 W	100V AC, 110V AC, 120V AC	14 min/4.5 min	5-15P	6	18 in	4 in	14 in	1,2,3,4,6,10,12	SU1000RTXL2UA	**3WA13**
1.5 kVA	1.2 kW	100V AC, 110V AC, 120V AC	14 min/5 min	5-15P	6	18 in	4 in	19.0 in	3,4,6,7,8	SU1500RTXL2Ua	**6FXP9**
2.2 kVA	1.6 kW	110V AC, 120V AC	14 min/4.5 min	5-20P	7	18 in	4 in	19.0 in	1,2,3,4,10,12	SU2200RTXL2UA	**3WA14**
3.0 kVA	2.5 kW	120V AC	15 min/6 min	L5-30P	7	17 in	4 in	26.0 in	4,8	SU3000RTXL2U	**30UJ72**
3.0 kVA	2.5 kW	230V AC	15 min/6 min	5-15P	10	17 in	4 in	26.0 in	4,8	SUINT3000RTXL2U	**30UJ84**
3.0 kVA	2.4 kW	110V AC, 120V AC	30 min/12 min	L5-30P	9	18 in	5 in	26.0 in	1,2,3,4,6,8,10,12	SU3000RTXL3U	**3WA18**
8.0 kVA	6.4 kW	208V AC	13.5 min/5.5 min	Hardwire	18	18 in	5 in	26 in	1,2,3,12	SU8000RT3U1TF	**2GZT9**
8.0 kVA	6.4 kW	208V AC	13.5 min/5.5 min	50A (CS8265C)	18	18 in	5 in	26 in	1,2,3,12,20	SU8000RT3UN50TF	**3ACG1**
10.0 kVA	8.0 kW	208V AC	12.5 min/4.3 min	Hardwire	30	18 in	5 in	26 in	1,2,3,12	SU10000RT3U2TF	**2GZT8**
10.0 kVA	8.0 kW	208V AC, 240V AC	12.5 min/4.3 min	Hardwire	0	18 in	5 in	26 in	1,2,3,12	SU10KRT3U	**2GZT7**
12.0 kVA	10.8 kW	200V AC, 208V AC, 220V AC, 230V AC, 240V AC	8.5 min/2 min	Hardwire	0	18 in	7 in	21 in	2,3,4,8	SU12KRT4UHW	**14A328**
16.0 kVA	11.2 kW	120V AC, 208V AC, 240V AC	12 min/5 min	Hardwire	13	18 in	7.0 in	41 in	1,3,4,12,20	SU16000RT4U	**3ACF9**
16.0 kVA	14.4 kW	200V AC, 208V AC, 220V AC, 230V AC, 240V AC	13.5 min/5.5 min	Hardwire	8	18 in	5 in	26 in	2,3,4,8	SU16KRTG	**14A329**
16.0 kVA	14.4 kW	200V AC, 208V AC, 220V AC, 230V AC, 240V AC	13.5 min/5.5 min	Hardwire	0	18 in	5 in	26 in	2,3,4,8	SU16KRTHW	**14A330**
20.0 kVA	18.0 kW	200V AC, 208V AC, 220V AC, 230V AC, 240V AC	12.5 min/4.3 min	Hardwire	8	18 in	5 in	26 in	2,3,4,8	SU20KRTG	**14A331**
20.0 kVA	18.0 kW	200V AC, 208V AC, 220V AC, 230V AC, 240V AC	12.5 min/4.3 min	Hardwire	0	18 in	5 in	26 in	2,3,4,8	SU20KRTHW	**14A332**
Line Interactive											
1.0 kVA	750.0 W	120V AC	27.5 min/11 min	5-15P	4	8 in	13 in	9.0 in	1,3,4,12,14	SMART1200XLHG	**3RY93**
330.0 VA	225.0 W	120V AC	46 min/18 min	5-15P	4	5 in	11 in	7 in	3,6,14	OMNISMART350HG	**3RY95**
700.0 VA	450.0 W	120V AC	42 min/18 min	5-15P	4	8 in	13 in	9.0 in	3,4,14	SMART 700 HG	**5JK37**
Accessories, TAA-GSA Compliant											
UPS Battery, For Use With Tripp Lite Model Numbers: SM2200RMXL2UTAA, SM3000RMXL2UTAA										BP48V242UTAA	**6FXL5**
UPS Battery, For Use With Tripp Lite Model Numbers: SM2200RMXL2UTAA, SM3000RMXL2UTAA										BP48V60RT3UTAA	**6FXL6**

Footnotes: 1—Expandable with external battery pack. 2—50/60 Hz compatible. 3—DB9 serial port. 4—USB port. 6—Fax/modem line surge suppression. 7—Emergency power off. 8—SNMP/Web interface slot. 9—TAA-GSA compliant. 10—Remote rebootable receptacles. 12—Includes full featured software with voltage and battery monitoring capability. 14—Hospital grade plug and receptacles. 15—Coax protection. 20—Contact Grainger Technical Support before ordering.

5AHD4

426P45

426N96

UPS Systems

Provide backup power and power protection for critical electronic equipment.

Back-UPS—Provide backup power and power protection for individual computers. They allow the computers to run for a short time to help facilitate a controlled shut-down.

Online UPS Systems—High performance uninterruptible power supply (UPS) for electronic equipment. The systems offer reliable protection from power interruptions such as utility power blackouts, brownouts, sags, surges, small utility power fluctuations, and large disturbances.

Smart-UPS®—Helps to provide nominal, conditioned 120VAC for applications in which fluctuating voltage (low/high) affects equipment operation. The units can also help provide backup power and power protection for critical equipment during power blackout conditions. UL Listed and CSA Certified. FCC Part 15 Class A.

VA Rating	Watts	Input Voltage	Backup Time (Half/Full Load)	NEMA Plug Config.	No. of Outlets	Outlet Type	Mfr. Model	Item No.
Line Interactive								
DB9 Serial, RS232, Smart-Slot, USB Ports								
1.0 kVA	640.0 W	120V AC	14 min/5 min	5-15P	4	UPS/Surge	SUA1000RM1U	**4NZT9**
750.0 VA	480.0 W	120V AC	23 min/7 min	5-15P	4	UPS/Surge	SUA750RM1U	**4NZT8**
DB9 Serial, RS232 Ports								
450.0 VA	280.0 W	120V AC	19 min/5 min	5-15P	4	UPS/Surge	SC450RM1U	**4NZT7**
620.0 VA	390.0 W	120V AC	15 min/5 min	5-15P	4	UPS/Surge	SC620	**4NZT4**
EPO, RJ45 10/100Base-T, RJ45 Serial, Smart Slot, USB Ports								
1.92 kVA	1.8 kW	120V AC	27.6 min/11 min	5-20P	7	(3) UPS (1) UPS (3) UPS	SMX2000RMLV2U	**426P23**
1.92 kVA	1.8 kW	120V AC	27.6 min/11 min	5-20P	7	(3) UPS (3) UPS (1) UPS	SMX2000RMLV2UNC	**426P24**
2.88 kVA	2.7 kW	120V AC	18 min/6.3 min	L5-30P	10	(3) UPS (1) UPS (6) UPS	SMX3000LV	**426P25**
2.88 kVA	2.7 kW	120V AC	18 min/6.3 min	L5-30P	10	(6) UPS (1) Ups (3) UPS	SMX3000LVNC	**426P26**
3.0 kVA	2.7 kW	208V AC, 220V AC, 230V AC, 240V AC	14 min/5 min	L5-30P	11	(2)UPS (8)UPS (1)UPS	SMX3000RMHV2UNC	**426P27**
3.0 kVA	2.7 kW	120V AC	18 min/6.3 min	L5-30P	7	(3)UPS (3)UPS (1)UPS	SMX3000RMLV2U	**426P28**
3.0 kVA	2.7 kW	120V AC	18 min/6.3 min	L5-30P	7	(1)UPS (3)UPS (3)UPS	SMX3000RMLV2UNC	**426P29**
EPO, RJ45 Serial, Smart Slot, USB Ports								
5.0 kVA	4.0 kW	208V AC, 240V AC	26.7 min/9.4 min	L6-30P	4	(2)UPS (2)UPS	SUA5000RMT5U	**426P41**
No Ports								
1.0 kVA	700.0 W	120V AC	19 min/5.8 min	5-15P	8	(8) UPS	SMT1000C	**426P10**
1.0 kVA	700.0 W	120V AC	31.3 min/8.7 min	5-15P	6	(6) UPS	SMT1000RM2UC	**426P11**
1.92 kVA	1.8 kW	120V AC	27.6 min/11 min	5-20P	10	(3) UPS (1) UPS (6) UPS	SMX2000LVNC	**426P22**
5.0 kVA	4.0 kW	208V AC, 240V AC	26.7 min/9.4 min	L6-30P	12	(2)UPS (1)UPS (12)UPS	SUA5000R5TXFMR	**426P40**
RJ45 10/100Base-T, RJ45 Serial, Smart Slot, USB Ports								
1.92 kVA	1.8 kW	120V AC	15.8 min/5.4 min	5-20P	8	(6)UPS/(2)UPS	SMT2200RM2UC	**426P13**
2.88 kVA	2.7 kW	120V AC	11.7 min/3.4 min	L5-30P	8	(6)UPS/(2)UPS	SMT3000RM2UC	**426P14**
RJ45 Serial, Smart Slot, USB Ports								
1.0 kVA	600.0 W	120V AC	16.3 min/6 min	5-15P	6	(6) UPS	SMC10002UC	**426P08**
1.4 kVA	1.0 kW	120V AC	16.6 min/4.8 min	5-15P	4	5-15R	SMT1500RM1U	**31XF61**
1.44 kVA	1.0 kW	120V AC	23.1 min/6.5 min	5-15P	8	—	SMT1500C	**426P12**
3.0 kVA	2.7 kW	208V AC	11.7 min/3.4 min	L6-20P	2	(2)UPS	SMT3000RMT2U	**426P15**
RJ45 Serial, USB Ports								
1.0 kVA	600.0 W	120V AC	19 min/7 min	5-15P	8	UPS/Surge	SMC1000C	**39A359**
1.44 kVA	900.0 W	120V AC	20 min/7 min	5-15P	8	UPS/Surge	SMC1500C	**39A360**
Smart Slot, USB Ports								
1.5 kVA	1.0 kW	120V AC	35 min/10 min	5-15P	6	UPS/Surge	SMT1500RM2UC	**43Y978**
750.0 VA	500.0 W	120V AC	15 min/5 min	5-15P	6	UPS/Surge	SMT750C	**43Y979**
USB Ports								
700.0 VA	420.0 W	120V AC	15 min/5 min	5-15P	6	(3) UPS/Surge, (3) Surge	BR700G	**5AHD4**
Online UPS Systems								
EPO, RJ45 10/100Base-T, RJ45 Serial, Smart Slot Ports								
6.0 kVA	6.0 kW	208V AC, 240V AC	8.3 min/2.3 min	—	12	(2)UPS (12)UPS (1)UPS (2)UPS	SRT6KRMXLT5KTF	**426P37**
6.0 kVA	6.0 kW	208V AC, 240V AC	8.3 min/2.3 min	—	10	(2)UPS (6)UPS (1)UPS (4)UPS	SRT6KRMXLTIEC	**426P38**
EPO, RJ45 Serial, Smart Slot, USB Ports								
6.0 kVA	6.0 kW	208V AC, 240V AC	8.3 min/2.3 min	—	6	(1) UPS (2) UPS (3) UPS	SRT6KRMXLT	**426P36**
No Ports								
5.0 kVA	4.25 kW	208V AC, 240V AC	12.6 min/4.4 min	L6-30P	4	(2) UPS (2) UPS	SRT5KXLT	**426P35**
5.0 kVA	4.0 kW	208V AC, 240V AC	14.1 min/4.8 min	L14-30P	6	(4)UPS (1)UPS (1)UPS	SURTD5000RMXLP3U	**426P45**
6.0 kVA	4.2 kW	208V AC, 240V AC	14.1 min/4.4 min	L14-30P	6	(1)UPS (1)UPS (4)UPS	SURTD6000RMXLP3U	**426P46**
8.0 kVA	8.0 kW	208V AC, 240V AC	14.4 min/5.2 min	—	7	(1)UPS (4)UPS (2)UPS	SRT8KRMXLT	**426P39**
RJ45 10Base-T, RS-232, Smart Slot Ports								
5.0 kVA	4.25 kW	208V AC, 240V AC	12.6 min/4.4 min	L6-30P	10	(2)UPS (4)UPS (4)UPS	SRT5KRMXLTIEC	**426P34**
10.0 kVA	10.0 kW	208V AC, 240V AC	11.4 min/3.7 min	—	7	(1)UPS (4)UPS (2)UPS	SRT10KRMXLT	**426P31**
Standby UPS Systems								
RJ45 Serial, Smart Slot, USB Ports								
600.0 VA	330.0 W	120V AC	11.5 min/2.5 min	5-15P	7	(5) UPS/(2) Surge	BE600M1	**426N95**
650.0 VA	390.0 W	120V AC	12.1 min/3.3 min	5-15P	8	(4) UPS/(4) Surge	BE650G1	**426N96**
USB Ports								
500.0 VA	300.0 W	120V AC	15 min/4 min	5-15P	6	(3) UPS/Surge, (3) Surge	BK500BLK	**4NZT2**

Socket Code*	No. of Pins	Contact Form	Status Indicator	Push To Test	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
Octal Base								
A	8	DPDT	Flag	No	10A	6V AC; 6V DC; 12V AC; 12V DC; 24V AC; 24V DC; 48V DC; 110V DC; 120V AC; 240V AC	Dayton	**H7955**
A	8	DPDT	LED/Flag	Lockable	10A	12V AC; 12V DC; 24V AC;	Dayton	**H7956**
A	8	DPDT	Flag	Lockable	10A	24V DC; 48V DC; 110V DC; 120V AC; 240V AC	Omron	**H7946**
A	8	DPDT	LED/Flag	Lockable	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H7942**
A	8	DPDT	LED/Flag	No	10A		Omron	**H7943**
A	8	DPDT	LED/Flag	Lockable	10A		Schneider	**J2409**
A	8	DPDT	Flag	No	10A		Omron	**H7945**
A	8	DPDT	Flag	No	10A		Dayton	**H7954**
A	8	DPDT	Flag	No	10A		Schneider	**J2410**
A	8	DPDT	No	No	10A	12V DC; 24V DC	Square D	**H8114**
A	8	DPDT	No	No	10A	24V AC; 120V AC; 240V AC	Square D	**H7953**
A	8	DPDT	LED	No	10A	24V DC; 120V AC	Square D	**H7952**
B	11	3PDT	LED/Flag	Lockable	10A	12V DC; 24V AC; 24V DC; 110V DC; 120V AC; 240V AC	Dayton	**H7974**
B	11	3PDT	LED/Flag	Lockable	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H7960**
B	11	3PDT	LED/Flag	No	10A		Omron	**H7961**
B	11	3PDT	LED/Flag	No	10A		Dayton	**H7973**
B	11	3PDT	LED/Flag	Lockable	10A		Schneider	**J2412**
B	11	3PDT	Flag	No	10A		Omron	**H7963**
B	11	3PDT	Flag	Lockable	10A		Omron	**H7964**
B	11	3PDT	Flag	No	10A		Dayton	**H7966**
B	11	3PDT	Flag	No	10A		Schneider	**J2411**
B	11	3PDT	No	No	10A	24V AC; 24V DC; 120V AC	Square D	**H7972**
B	11	3PDT	LED	No	10A	24V AC; 120V AC	Square D	**H7971**
Square Base								
C	5	SPDT	No	Manual	10A	12V DC; 24V AC;	Omron	**H8004**
C	5	SPDT	LED	Manual	10A	24V DC; 120V AC	Omron	**H8003**
C	8	DPDT	No	Manual	10A	12V DC; 24V AC; 24V DC; 110V DC; 120V AC; 240V AC	Omron	**H7992**
C	8	DPDT	LED/Flag	Lockable	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	**H8002**
C	8	DPDT	LED/Flag	Lockable	10A		Schneider	**J2415**
C	8	DPDT	LED	Manual	10A		Omron	**H7989**
C	8	DPDT	Flag	No	10A		Dayton	**H7996**
C	8	DPDT	Flag	No	10A		Schneider	**J2413**
C	8	DPDT	No	No	12A	24V DC; 120V AC	Square D	**H7995**
C	11	3PDT	LED/Flag	Lockable	10A	12V DC; 24V AC; 24V DC; 110V DC; 120V AC; 240V AC	Dayton	**H7987**
C	11	3PDT	LED/Flag	No	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	**H7986**
C	11	3PDT	LED/Flag	Lockable	10A		Schneider	**J2418**
C	11	3PDT	Flag	No	10A		Dayton	**H7982**
C	11	3PDT	Flag	Manual	10A		Schneider	**J2416**
C	11	3PDT	LED	Manual	10A	12V DC; 24V AC; 24V DC; 240V AC	Omron	**H7978**
C	11	3PDT	No	Manual	10A	12V DC; 24V AC; 110V DC; 120V AC; 240V AC	Omron	**H7980**
C	11	3PDT	No	No	10A	24V AC; 24V DC	Square D	**H7981**
C	11	3PDT	No	No	10A	24V DC	Omron	**H7980**
C	11	3PDT	LED	No	10A	120V AC	Omron	**H7978**
D	8	SPDT	No	Manual	15A	12V DC; 24V AC; 24V	Omron	**H8019**
D	8	SPDT	LED	Manual	15A	DC; 120V AC; 240V AC	Omron	**H8021**
D	8	DPDT	No	Manual	10A	12V AC; 12V DC; 24V DC; 120V AC; 240V AC	Omron	**H8009**
D	8	DPDT	LED	No	10A	12V DC; 24V AC	Omron	**H8011**
D	8	DPDT	No	Manual	5A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8007**
D	8	DPDT	Flag	No	12A		Schneider	**H8016**
D	8	DPDT	LED/Flag	Lockable	15A		Schneider	**H8013**
D	8	DPDT	No	No	10A	24V AC	Omron	**H8009**
D	8	DPDT	No	Manual	15A	24V AC; 120V AC	Square D	**H7991**

Dayton H7955 | Square D H7971 | Omron H8009

Socket Mount Relays

Socket Code*	No. of Pins	Contact Form	Status Indicator	Push To Test	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
D	8	DPDT	LED	Manual	10A	24V DC; 120V AC; 240V AC	Omron	**H8011**
E	11	3PDT	LED	Manual	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8024**
E	11	3PDT	LED/Flag	Lockable	12A		Schneider	**H8027**
E	11	3PDT	Flag	No	12A		Schneider	**H8029**
E	11	3PDT	No	Manual	10A	12V DC; 24V AC; 24V DC; 240V AC	Omron	**H8025**
E	11	3PDT	No	No	10A	120V AC	Omron	**H8025**
F	14	4PDT	No	Manual	10A	12V AC; 12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8031**
F	14	4PDT	LED	Manual	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8032**
F	14	4PDT	LED/Flag	Lockable	12A		Schneider	**H8036**
F	14	4PDT	Flag	No	12A		Schneider	**H8037**
F	14	4PDT	No	No	15A	24V DC; 120V AC	Square D	**H8033**
F	14	4PDT	LED	No	15A	120V AC	Dayton	**H8039**
G	14	4PDT	No	Manual	5A	12V AC; 12V DC; 24V AC; 24V DC; 110V DC; 120V AC; 240V AC	Omron	**H8058**
G	14	4PDT	LED	Lockable	5A	12V DC; 24V AC; 24V DC; 120V AC	Omron	**H8056**
G	14	4PDT	No	Manual	3A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8041**
G	14	4PDT	LED/Flag	Lockable	3A		Schneider	**J2423**
G	14	4PDT	Flag	No	3A		Schneider	**J2422**
G	14	4PDT	LED/Flag	Lockable	6A		Schneider	**J2425**
G	14	4PDT	Flag	No	6A		Schneider	**J2424**
G	14	4PDT	LED	Manual	5A	12V DC; 24V DC; 120V AC; 240V AC	Omron	**H8057**
G	14	4PDT	LED	No	5A	24V AC	Omron	**H8057**
G	14	4PDT	No	No	5A	24V DC; 120V AC	Square D	**H8059**
H	5	SPDT	LED/Flag	Manual	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8069**
H	5	SPDT	Flag	Manual	10A		Omron	**H8070**
J	8	DPDT	LED/Flag	Manual	5A		Omron	**H8071**
J	8	DPDT	Flag	Manual	5A		Omron	**H8072**
K	8	DPDT	No	Manual	5A	12V DC; 24V AC; 24V DC; 120V AC	Omron	**H8073**
K	8	DPDT	No	Manual	5A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8076**
K	8	DPDT	No	Manual	12A		Schneider	**J2420**
K	8	DPDT	LED/Flag	Lockable	12A		Schneider	**J2421**
K	8	DPDT	LED	Manual	5A	12V DC; 24V AC; 120V AC	Omron	**H8075**
K	8	DPDT	LED	Manual	10A	24V DC; 240V AC	Omron	**H8075**
L	5	SPDT	LED/Flag	No	15A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	**H8084**
L	5	SPDT	LED/Flag	Lockable	15A		Dayton	**H8085**
L	5	SPDT	LED/Flag	Lockable	15A		Schneider	**J2419**
L	5	SPDT	Flag	No	15A		Dayton	**H8083**
L	5	SPDT	Flag	No	15A		Schneider	**J2426**
L	5	SPDT	No	No	12A	24V AC; 24V DC; 120V AC	Square D	**H8078**
R	11	3PDT	No	Manual	5A	12V DC; 24V AC; 24V	Omron	**H8023**
R	11	3PDT	LED	Manual	5A	DC; 120V AC; 240V AC	Omron	**H8022**

** See page 216 for sockets.*

Latching Relays

Contacts hold position after energy is applied momentarily to the coil.

Socket Code*	No. of Pins	Contact Form	AC Contact Rating	▶CHOOSE: Coil Volts	Item No.
Octal Base					
B	11	DPDT	10A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	**H7975**
Square Base					
C	9	DPDT	10A	12V DC; 24V AC; 24V DC; 120V AC	**H7988**
G	10	DPDT	3A	12V DC; 120V AC	**H8066**

** See page 216 for sockets.*

H7975

Top Flange Mount H8010

Flange Mount Relays

No. of Pins	Contact Form	AC Contact Rating	Status Indicator	Push To Test	▶CHOOSE: Coil Volts	Brand	Item No.
Side Flange							
5	SPDT	10A	No	—	24V AC; 120V AC; 240V AC	Omron	**H8100**
8	DPDT	10A	No	—	12V DC; 24V AC;	Dayton	**H8097**
8	DPDT	10A	No	—	24V DC; 120V AC; 240V AC	Omron	**H8095**
8	DPDT	12A	No	—	24V AC; 120V AC	Square D	**H8096**
11	3PDT	10A	No	—	12V DC; 24V AC;	Dayton	**H8091**
11	3PDT	10A	No	—	24V DC; 120V AC; 240V AC	Omron	**H8090**
Top Flange							
4	SPST-NO	10A	No	—	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Omron	**H8109**
5	SPDT	10A	No	—		Omron	**H8108**
8	SPDT	15A	No	Manual		Omron	**H8020**
8	DPDT	5A	No	—		Omron	**H8107**
8	DPDT	10A	No	Manual		Omron	**H8010**
11	3PDT	5A	No	—		Omron	**H8103**
11	3PDT	10A	No	Manual		Omron	**H8104**
14	4PDT	3A	No	—		Omron	**H8105**
14	4PDT	10A	No	Manual		Omron	**H8106**

H7949

Hermetically Sealed Relays

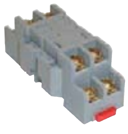
Socket Code*	No. of Pins	Contact Form	AC Contact Rating	▶CHOOSE: Coil Volts	Brand	Item No.
Octal Base						
A	8	DPDT	12A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H7948**
A	8	DPDT	12A	24V AC; 24V DC; 120V AC	Dayton	**H7949**
B	11	3PDT	12A	12V DC; 24V DC; 120V AC; 240V AC	Dayton	**H7968**
B	11	3PDT	12A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H7967**
Square Base						
G	14	4PDT	3A	12V DC; 24V AC; 24V DC; 120V AC	Dayton	**H8044**
G	14	4PDT	3A		Omron	**H8042**
G	14	4PDT	3A	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8043**
G	14	4PDT	5A	24V DC; 120V AC	Square D	**H8060**

** See page 216 for sockets.*

A. 5X852

B. 6X156

C. 5B583


D. 2DT94

G. 2DT97

M. 6AGT8

A. 1EGP5

E. 6CVE6

F. 6CVE7

R. 1EGP9

Relay Sockets and Accessories

UL Recognized and CSA Certified.

Socket Code*	Socket Style	No. of Pins	Mounting	Contact Rating	Terminals	Voltage	Contact Rating	L	W	D	Brand	Mfr. Model	Item No.
A	Octal	8	DIN Rail	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	2.20"	1.61"	0.83"	Omron	PF083A-E	**1YAX4**
A	Octal	8	DIN Rail	15A @ 300VAC, 10A @ 600VAC	Screw Clamp	300/600VAC	15A @ 300VAC, 10A @ 600VAC	2.12"	1.60"	0.97"	Schneider Electric	70-464-1	**6CVD6**
A	Octal	8	DIN Rail/Surface	15A @ 300VAC, 10A @ 600VAC	Screw	300/600VAC	15A @ 300VAC, 10A @ 600VAC	2.12"	1.60"	0.97"	Dayton	5X852	**5X852**
A	Octal	8	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	2.40"	1.60"	0.86"	Square D	8501NR51	**5B586**
A	Octal	8	DIN Rail/Surface	16A @ 250VAC	Screw Clamp	250VAC	16A @ 250VAC	2.02"	1.60"	1.13"	Square D	8501NR52	**2DW02**
B	Octal	11	DIN Rail	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	2.21"	1.69"	0.83"	Omron	PF113A-E	**1YAX5**
B	Octal	11	DIN Rail	15A @ 300VAC, 5A @ 600VAC	Screw Clamp	300/600VAC	15A @ 300VAC, 5A @ 600VAC	2.32"	2.16"	0.97"	Schneider Electric	70-465-1	**6CVD7**
B	Octal	11	DIN Rail/Surface	15A @ 300VAC	Screw	300VAC	15A @ 300VAC	2.33"	2.16"	0.97"	Dayton	6X156	**6X156**
B	Octal	11	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	2.37"	2.33"	0.86"	Square D	8501NR61	**5B585**
B	Octal	11	DIN Rail/Surface	16A @ 300VAC	Screw	250VAC	16A @ 300VAC	2.20"	1.50"	1.44"	Square D	8501NR62	**5B584**
C	Square	11	DIN Rail/Surface	15A @ 300VAC	Screw	300VAC	15A @ 300VAC	3.15"	1.70"	1.03"	Dayton	5X853	**5X853**
C	Square	11	DIN Rail/Surface	15A @ 300VAC	Screw	250VAC	15A @ 300VAC	3.13"	1.70"	1.03"	Square D	8501NR82	**5B583**
C	Square	11	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.00"	1.70"	1.03"	Omron	PTF11PC	**5ZJ16**
C	Square	11	Surface	10A @ 600VAC	Screw	600VAC	10A @ 600VAC	3.15"	1.89"	0.88"	Omron	PTF21PC	**5ZJ18**
D	Square	8	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	2.73"	1.17"	1.02"	Schneider Electric	70-459-1	**6CVD3**
D	Square	8	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	2.73"	1.17"	1.02"	Dayton	10E075	**10E075**
D	Square	8	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.33"	1.18"	1.18"	Dayton	1FC13	**1FC13**
D	Square	8	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	1.18"	1.00"	Square D	8501NR42	**2DT94**
E	Square	11	DIN Rail/Surface	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.09"	1.46"	1.18"	Omron	PTF11A	**2XC08**
E	Square	11	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	1.58"	1.00"	Square D	8501NR43	**2DT96**
E	Square	11	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.33"	1.57"	1.18"	Dayton	1FC14	**1FC14**
F	Square	14	DIN Rail/Surface	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.14"	1.96"	1.18"	Dayton	1FC15	**1FC15**
F	Square	14	DIN Rail/Surface	10A @ 250VAC	Screw	250VAC	10A @ 250VAC	3.09"	1.79"	1.18"	Omron	PTF14A	**2XC09**
F	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.75"	2.00"	1.00"	Square D	8501NR34	**2DT92**
G	Square	14	DIN Rail	5A @ 250VAC	Screwless Clamp	250VAC	5A @ 250VAC	3.35"	1.22"	1.28"	Omron	PYF14S	**1YAW8**
G	Square	14	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	2.71"	1.20"	1.00"	Schneider Electric	70-461-1	**6CVD4**
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	2.50"	1.19"	1.00"	Dayton	2A584	**2A584**
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw Clamp	250VAC	10A @ 300VAC	2.65"	1.20"	1.00"	Square D	8501NR45	**2DT97**
H	Square	5	DIN Rail	10A @ 250VAC	Screwless Clamp	250VAC	10A @ 250VAC	3.62"	0.71"	1.50"	Omron	P2RF-05-S	**1YAW5**
J	Square	8	DIN Rail	5A @ 250VAC	Screwless Clamp	250VAC	5A @ 250VAC	3.62"	0.71"	1.50"	Omron	P2RF-08-S	**1YAW6**
K	Square	8	DIN Rail	10A @ 250VAC	Screwless Clamp	250VAC	10A @ 250VAC	3.35"	1.22"	1.28"	Omron	PYF08S	**1YAW7**
L	Square	5	DIN Rail/Surface	15A @ 300VAC	Screw Clamp	250VAC	15A @ 300VAC	2.75"	1.50"	1.00"	Square D	8501NR41	**2DT93**
M	Square	6	DIN Rail	30A @ 300VAC	Screw Clamp	300VAC	30A @ 300VAC	2.79"	2.13"	0.93"	Schneider Electric	70-725-1	**6AGT8**
R	Square	11	DIN Rail	5A @ 250VAC	Screw	250VAC	5A @ 250VAC	2.83"	1.16"	1.18"	Omron	PYF11A	**1YAX2**
Module Compatible - Accepts Expansion Modules													
A	Octal	8	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Dayton	1EGP3	**1EGP3**
A	Octal	8	DIN Rail	16A @ 300VAC	Screw	300VAC	16A @ 300VAC	3.77"	1.40"	1.77"	Dayton	1EGP5	**1EGP5**
A	Octal	8	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Schneider Electric	70-750E8-1	**6CVD9**
A	Octal	8	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.77"	1.40"	1.77"	Schneider Electric	70-750EL8-1	**6CVE1** †
B	Octal	11	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Dayton	1EGP2	**1EGP2**
B	Octal	11	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	2.95"	1.49"	1.06"	Schneider Electric	70-750E11-1	**6CVD8**
B	Octal	11	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.77"	1.40"	2.48"	Schneider Electric	70-750EL11-1	**6CVE0** †
C	Square	11	DIN Rail	25A @ 300VAC	Screw	300VAC	25A @ 300VAC	3.70"	1.40"	2.48"	Dayton	1EGR3	**1EGR3**
C	Square	11	DIN Rail	25A @ 300VAC	Screw Clamp	300VAC	25A @ 300VAC	3.70"	1.40"	2.48"	Schneider Electric	70-788EL11-1	**6CVE8** †
D	Square	8	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.18"	1.18"	Schneider Electric	70-782D8-1A	**6CVE4** †
E	Square	11	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.57"	1.18"	Schneider Electric	70-783D11-1A	**6CVE6** †
F	Square	14	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	1.96"	1.18"	Schneider Electric	70-784D14-1	**6CVE7** †
G	Square	14	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.12"	1.06"	1.69"	Dayton	1EGP8	**1EGP8**
G	Square	14	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGR1	**1EGR1**
G	Square	14	DIN Rail	10A @ 300VAC	Screw Clamp	300VAC	10A @ 300VAC	3.30"	1.18"	1.57"	Schneider Electric	70-782D14-1	**6CVE3** †
G	Square	14	DIN Rail/Surface	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.11"	1.18"	1.57"	Dayton	1EGP7	**1EGP7**
K	Square	8	DIN Rail	12A @ 300VAC	Screw	300VAC	12A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGR2	**1EGR2**
K	Square	8	DIN Rail	12A @ 300VAC	Screw Clamp	300VAC	12A @ 300VAC	3.34"	1.06"	2.40"	Schneider Electric	70-782EL8-1	**6CVE5**
L	Square	5	DIN Rail	16A @ 300VAC	Screw Clamp	300VAC	16A @ 300VAC	3.33"	0.82"	1.18"	Schneider Electric	70-781D5R-1A	**6CVE2** †
R	Square	11	DIN Rail	10A @ 300VAC	Screw	300VAC	10A @ 300VAC	3.34"	1.06"	2.40"	Dayton	1EGP9	**1EGP9**
Expansion Modules													
Diode, 6-250V DC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3 in	0.5 in	1.1 in	Dayton	1EGT1	**1EGT1**
LED, 24V AC/V DC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3 in	0.5 in	1.1 in	Dayton	1EGT3	**1EGT3**
Metal Oxide Varistor, 120V AC/V DC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3 in	0.5 in	1.1 in	Dayton	1EGT4	**1EGT4**
Metal Oxide Varistor, 240V AC/V DC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3 in	0.5 in	1.1 in	Dayton	1EGT6	**1EGT6**
Metal Oxide Varistor, 24V AC/V DC Expansion Module, For Use With G, L, Q, R Module Sockets								0.3 in	0.5 in	1.1 in	Dayton	1EGT5	**1EGT5**
Socket Accessories													
35mm DIN Rail Mounting Track								12.0 in	1.38 in	0.31 in	—	18Z759	**18Z759**
35mm DIN Rail Mounting Track								24.0 in	1.38 in	0.31 in	—	18Z760	**18Z760**
35mm DIN Rail Mounting Track								39.37 in	1.38 in	0.31 in	—	18Z758	**18Z758**
35mm DIN Rail Mounting Track								39.37 in	1.38 in	0.3 in	Schneider Electric	16-700DIN	**6CUR2**
Clip, Metal, For Use With 1EGP2, 1EGP3, 1EGP4, 1EGP5, 1EGR3, 5X852, 6X156, Nos. 5X853								—	—	—	Dayton	1TND8	**1TND8**
Clip, Metal, For Use With 1EGP8, 1EGP9, 1EGR1, 1EGR2, Nos. 1EGP7								—	—	—	Dayton	1EGA7	**1EGA7**
Clip, Plastic, For Use With 1EGP8, 1EGP9, 1EGR1, 1EGR2, Nos. 1EGP7								—	—	—	Dayton	1EGA6	**1EGA6**
DIN Rail Adapter, For Use With Schneider/Magnecraft W9A Series Power Relays (Nos. H8128, H8130)								—	—	—	Schneider Electric	16-9ADIN-1	**6AGT9**

***** *Like letters have same pin configuration.* † *Finger safe.*

Heavy-Duty Power Relays

SQUARE D by Schneider Electric · Schneider Electric · Dayton

- Screw-head terminals
- Silver alloy, self-wiping contacts
- Molded thermoset plastic base

Use for switching motor loads in applications such as elevators, machine tools, air handling, and HVAC equipment. Minimum operating voltage for AC relays is 85% of nominal voltage. 0.75 power factor. Relays with magnetic blowout feature suppress arcing.

H8162

H8151

No. of Pins	Contact Form	Features	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Mfr. Model	Item No.
Power Relays									
4	SPST-NO	—	40A @ 300V	2	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	—	**H8153**
4	SPST-NO	Riveted Construction	40A @ 300V	2	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	199DX	**H8146**
4	SPST-NO	—	40A @ 300V	2	2	120V AC; 277V AC; 480V AC	Square D	8501C06	**H8162**
5	SPDT	—	40A @ 300V	1 ½	Not Rated	12V DC; 24V AC; 24V DC; 120V AC	Dayton	—	**H8143**
5	SPDT	—	40A @ 300V	2	2	120V AC	Square D	8501CO15	**2DR55**
6	DPST-NO	—	40A @ 300V	1 ½	1 ½	12V DC; 24V AC; 24V DC; 120V AC; 208V AC; 240V AC	Dayton	—	**H8156**
6	DPST-NO	Riveted Construction	40A @ 300V	2	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	199X	**H8150**
8	DPDT	—	40A @ 300V	1 ½	1 ½	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	—	**H8151**
8	DPDT	Auxiliary Switch	40A @ 300V	1 ½	1 ½	24V DC; 120V AC	Dayton	—	**H8155** *
8	DPDT	—	40A @ 300V	2	2	120V AC	Square D	8501CO16	**H8137**
8	DPDT	—	30A @ 277V	2	2	480V AC	Square D	8501CO16	**H8137**
Power Relays with Magnetic Blowout									
4	SPST-NO	Magnetic Blowout	40A @ 300V	—	—	24V DC; 120V AC	Dayton	—	**H8154**
4	SPST-NO	Magnetic Blowout	40A @ 300V	—	—	24V DC; 120V AC; 240V AC	Schneider Electric	199DBX	**H8147**
8	DPDT	Magnetic Blowout	40A @ 300V	—	—	12V DC; 24V DC; 120V AC; 240V AC	Schneider Electric	199BX	**H8148**
8	DPDT	Magnetic Blowout	40A @ 300V	—	—	24V DC; 120V AC	Dayton	—	**H8152**
Enclosures for Power Relays									
For Use With 199 Series Power Relays							Schneider Electric	5089	**6CVA2**
NEMA 1 Indoor Rating, 5.31L x 3.38W x 3.13"D, Knockouts for ½" Conduit							Dayton	1EGH7	**1EGH7**

***** *Includes auxiliary switch.*

Schneider Electric · Dayton · OMRON®

Enclosed Power Relays

Flange-type mounting bracket.

DAYTON®

Bottom-mounted ¼" quick-connect terminals. Silver cadmium oxide contacts. Operating temp. -30° to 50°C DC; -30° to 65°C AC. Pull-in at 85% of nominal voltage for AC coils or 80% for DC coils.

OMRON

Top-mounted terminals. Dielectric strength: 4000VAC at 1 min. G7L series has push-to-test buttons.

SCHNEIDER ELECTRIC

Feature top-mounted terminals and locating slot for DIN rail mounting. Silver tin oxide contacts. 50/60 Hz. UL Listed.

Dayton® H8139

Schneider Electric H8138

Schneider Electric H8130

Omron H8123

No. of Pins	Contact Form	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Item No.
Bottom Flange, Din Rail Mount, ¼ in Tab Terminals							
4	SPST-NO	30A @ 277V	1 ½	3	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8131**
6	DPST-NO	30A @ 277V	1	3	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	**H8139**
6	DPST-NO	30A @ 277V	1	3	12V DC; 24V AC; 120V AC; 230V AC	Schneider Electric	**H8138**
6	DPST-NO	25A @ 277V	1	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8118**
6	DPST-NO	30A @ 277V	1	3	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8140**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Dayton	**H8134**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12V DC; 24V AC; 24V DC; 120V AC; 230V AC	Schneider Electric	**H8135**
8	DPDT	30A @ 277V (NO), 3A @ 277V (NC)	1	3	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8136**
Bottom Flange, Din Rail Mount, Screw Terminals							
6	DPST-NO	25A @ 277V	1	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8121**
Bottom Flange Mount, ¼ in Tab Terminals							
4	SPST-NO	30A @ 240V	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8129**
4	SPST-NO	30A @ 240V	1	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8130**
5	SPDT	15A @ 240V (NC), 30A @ 240V (NO)	1	2	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	Schneider Electric	**H8128**
6	DPST-NO	25A @ 240V	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8117**
Bottom Flange Mount, Screw Terminals							
4	SPST-NO	30A @ 240V	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8133**
6	DPST-NO	25A @ 240V	1	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8120**
Bracket Mount, ¼ in Tab Terminals							
6	DPST-NO	25A @ 240V	1 ½	3	12V DC; 24V DC	Omron	**H8116**
6	DPST-NO	25A @ 240V	1	2	24V AC; 100/120V AC; 200/240V AC	Omron	**H8116**
10	3PST-NO, SPST-NC	25A @ 240V (NO), 8A @ 240V (NC)	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8125**
10	4PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8127**
Bracket Mount, Screw Terminals							
4	SPST-NO	30A @ 240V	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8132**
6	DPST-NO	25A @ 240V	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8119**
10	DPST-NC, DPST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8123**
10	3PST-NO, SPST-NC	25A @ 240V (NO), 8A @ 240V (NC)	1 ½	3	12V DC; 24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8124**
10	4PST-NO	25A @ 240V (NO), 8A @ 240V (NC)	1 ½	3	24V AC; 24V DC; 100/120V AC; 200/240V AC	Omron	**H8126**

Flange-Mount Power Relays

Schneider Electric · OMRON® · Dayton

- 60/50 Hz

Feature side flange and silver alloy contact material.

No. of Pins	Contact Form	AC Contact Rating	HP @ 120V	HP @ 240V	▶CHOOSE: Coil Volts	Brand	Mfr. Model	Item No.
5	SPDT	25A @ 300V	1	1 ½	12V DC, 24V AC, 24V DC	Dayton	—	**H8158**
5	SPDT	25A @ 300V	1 ½	1 ½		Schneider Electric	389FXAXC1	**H8160**
8	DPDT	25A @ 300V	1 ½	1 ½		Dayton	—	**H8159**
8	DPDT	25A @ 300V	1 ½	1 ½	12V DC, 24V AC, 24V DC, 120V AC, 240V AC	Schneider Electric	389FXBXC1	**H8161**
8	DPDT	10A @ 480/600V	¾	1 ½		Omron	MJN2CE	**H8099**
11	3PDT	20A @ 150V	½	½		Dayton	—	**H8094**
11	3PDT	20A @ 150V	½	½		Schneider Electric	389FXCXC1	**H8093**
5	SPDT	25A @ 300V	1	1½	120V AC	Dayton	—	**H8158**

H8161

Compact, CA2/3 Series H2709

CAD Series H2714

Schneider Electric

TeSys IEC Control Relays

- 600V, 10A rating (A600)
- DIN rail mounting capability

UL Listed and CSA Certified.

COMPACT

Great for OEM and panel builders. A built-in cavity simplifies insertion of a transient suppressor.

CAD SERIES

Serrated contacts provide a wiping action to ensure excellent performance with low control voltage (24V). Basic 5-pole relay can be installed with a snap-on adder cartridge. Built to a design specification of 30 million mechanical operations. Standard instantaneous auxiliary contact blocks are available. See listing on page 170.

Contact Form	▶CHOOSE: Coil Volts	Item No.
Compact, CA2/3 Series		
1NO/1NC	24V AC, 24V DC, 120V AC, 240V AC, 480V AC	**H2709**
2NO	24V AC, 24V DC, 120V AC, 240V AC, 480V AC	**H2708**
2NO/2NC	24V AC, 24V DC, 120V AC, 240V AC, 480V AC	**H2712**
3NO/1NC	24V AC, 24V DC, 120V AC, 240V AC	**H2711**
4NO	24V AC, 24V DC, 120V AC, 240V AC, 480V AC	**H2710**
CAD Series		
3NO/2NC	24V AC, 24V DC, 120V AC, 240V AC, 480V AC	**H2714**
5NO	24V AC, 24V DC, 120V AC, 240V AC	**H2713**

Mini H2733

Control H2730

EATON

IEC Control Relays

- DIN rail mount
- Front access contact and coil terminals

XT/DIL M Series feature positively driven contacts between the relay and auxiliary contact modules, and within the auxiliary contact modules.

Provide AC control from 12V to 550V 50 Hz, 600V 60 HZ, and DC control from 12V to 220V. Silver tin oxide alloy contact material. Screw or spring-cage terminals and 4-pole configurations. Nonlatching type. UL Listed, CSA and CE Certified.

Contact Form	▶CHOOSE: Coil Volts	Mfr. Model	Item No.
IEC Mini Control Relays, 10A			
2NO/2NC	24V AC, 120V AC, 208V AC, 240V AC, 480V AC	XTRM10A	**H2733**
4NO	24V AC, 120V AC, 208V AC, 240V AC, 480V AC	XTRM10A	**H2732**
IEC Control Relays, 16A			
2NO/2NC	24V AC, 120V AC, 208V AC, 240V AC, 480V AC	XTRE10B	**H2730**
4NO	24V AC, 120V AC, 208V AC, 240V AC, 480V AC	XTRE10B	**H2731**

Class 8501 X0 Control Relay H2715

Mechanical AC Latch 4B518

SQUARE D by Schneider Electric

NEMA Control Relay

- Operating temp. range: -40° to 71°C (-40° to 160°F)
- Mechanical tie between all cartridges

Rugged, heavy-duty design ensures improved performance, reliability, and long life. Feature field convertible color-coded contact cartridges and replaceable coils. Average operating time in milliseconds: AC is 15 pickup, 16 dropout; DC is 37 pickup, 21 dropout. UL Listed and CSA Certified.

NEMA CONTROL RELAY

- 600V, 10A rating (A600)

All contact poles are usable since no overlapping contacts are needed. Relays have plug-in contact cartridges for easy contact conversion, from Normally Open to Normally Closed, and replacement; removal of terminal screws or wires is not necessary. Self-lifting pressure wire connectors. Straight-through wiring.

Note: A maximum of 8 NC contacts is allowed on 12-pole relays.

MASTER NEMA CONTROL RELAY

- 600V, 20A rating (A600)

Note: Attachments are not permitted on this relay.

Contact Form	▶CHOOSE: Coil Volts	Accessory Group	Mfr. Model	Item No.
NEMA Control Relay				
2NO	24V DC, 24V AC, 240V AC, 480V AC, 120V AC	A	8501X020	**H2715**
3NO	24V AC, 240V AC, 480V AC, 120V AC	A	8501X030	**H2716**
4NO	24V DC, 24V AC, 120V AC, 240V AC, 480V AC	A	8501X040	**H2717**
6NO	24V DC, 24V AC, 240V AC, 120V AC	B	8501X060	**H2718**
8NO	24V DC, 24V AC, 240V AC, 480V AC, 120V AC	C	8501X080	**H2719**
10NO	120V AC	E	8501X01000	**H2720**
12NO	24V AC, 240V AC, 120V AC	D	8501X01200	**H2721**
Latching NEMA Control Relay				
2NO	24V DC, 24V AC, 120V AC, 240V AC	G	8501X020XL	**H2725**
3NO	120V AC	G	8501X030XL	**H2726**
4NO	24V DC, 120V AC	G	8501X040XL	**H2727**
6NO	120V AC, 480V AC	H	8501X060XL	**H2728**
8NO	24V DC, 120V AC	H	8501X080XL	**H2729**
Master NEMA Control Relay				
2NO	24V AC, 120V AC	F	8501XMO20	**H2722**
4NO	24V AC, 240V AC, 120V AC	F	8501XMO40	**H2723**
6NO	120V AC, 480V AC, 240V AC	F	8501XMO60	**H2724**

Description	Accessory Group	Mfr. Model	Item No.
Accessories for Class 8501 Relays			
Mechanical AC Latch	A, B, C	8501XLV02	**4B518**
On Delay Pneumatic Timer, 0.2 to 60 sec., 1 NO, 1 NC	A	8501XTE1	**4B532**
Off Delay Pneumatic Timer, 1NO, 1NC	A	8501XTD1	**4B531**
Adder Deck with 2 Convertible Contacts	A, F	8501XB20	**4B512**
Adder Deck with 4 Convertible Contacts	A, F	8501XB40	**4B513**
NEMA 1 Enclosure	All	9991UE7	**4B533**
Contact Cartridge Standard (Break Before Make), 10A, Black	A, B, C	8501XC1	**4B514**
Master Contact Cartridge, 20A, Blue	F	8501XC4	**4B516**

H2626

13A182

SIEMENS

IEC Control Relays

- 10A
- UL Listed and CSA and CE Certified

Control output signals and interlock switching devices in control and auxiliary circuits. Cross-ribbing technique ensures high contact reliability as low as 1mA and 17V.

Contact Form	Mfr. Model	AC COIL ▶CHOOSE: Coil Volts	AC COIL Item No.	DC COIL ▶CHOOSE: Coil Volts	DC COIL Item No.
2NO/2NC	3RH21221	24V AC, 120V AC, 220V AC, 240V AC	**H2626**	24V DC, 110V DC, 125V DC	**H3802**
3NO/1NC	3RH21311	24V AC, 120V AC, 220V AC, 240V AC	**H2627**	24V DC, 110V DC, 125V DC, 220V DC	**H3803**
4NO	3RH21401	24V AC, 120V AC, 240V AC	**H2628**	24V DC, 110V DC	**H3804**
With Permanent Mounted Auxiliary Contacts					
6NO/2NC	3RH22621	120V AC	**44P008**	24V DC	**44P009**
4NO/4NC	3RH22441	120V AC	**13A182**	24V DC	**13A183**

Solid-State Relays

Dayton

Fast response and long service life, with no moving parts to wear out or arcing contacts to deteriorate. Feature heavy-duty SCR for high inrush loads, a standard, light-duty resistive triac, and medium-duty alernistor triac.

1EJG5

1EJK1

1EGH8

Max. Output Amps w/ Heat Sink	Switch Type	Heat Sink	Relay Turns On At	Mounting	3 to 32V DC INPUT			90 to 280V AC INPUT		
					24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 660V AC Output Item No.	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 660V AC Output Item No.
8 A	Triac	Integral	Zero Crossing	DIN Rail	—	—	—	—	**1EJG5**	—
10 A	SCR	Not Included	Zero Crossing	Surface	**1EGH9**	**1EGL2**	—	**1EGH8**	**1EGL1**	—
10 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	**1EJK2**	—	—	**1EJK1**	—	**1EJK7** *
10 A	Triac	Not Included	Instantaneous/Random	Surface	**1EGJ3**	—	—	—	—	—
10 A	Triac	Not Included	Zero Crossing	Surface	**1EGJ1**	**1EGL3**	—	—	—	—
10 A	Triac	Not Included	Zero Crossing	Surface	**1EGJ2**	—	—	—	—	—
25 A	SCR	Not Included	Zero Crossing	Surface	**1EGJ5**	**1EGL5**	—	**1EGJ4**	**1EGL4**	—
25 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	**1EJK4**	—	**1EJL1** *	**1EJK3**	—	**1EJK9** *
40 A	SCR	Not Included	Zero Crossing	Surface	**1EGJ9**	**1EGL8**	—	**1EGJ8**	**1EGL7**	—
40 A	SCR	Integral	Zero Crossing	DIN Rail/Flange	**1EJK6**	—	**1EJL3** *	**1EJK5**	—	—
40 A	Triac	Not Included	Zero Crossing	Surface	—	**1EGL9**	—	—	—	—
50 A	SCR	Not Included	Zero Crossing	Surface	**1EGK4**	**1EGN2**	—	**1EGK3**	**1EGN1**	—
75 A	SCR	Not Included	Zero Crossing	Surface	**1EGK6**	**1EGN4**	—	**1EGK5**	**1EGN3**	—
90 A	SCR	Not Included	Zero Crossing	Surface	—	—	**1EGN6** *	—	—	**1EGN5** *

** 48 to 660VAC output.*

1DTE9

1DTK6

crydom

Solid-State Relays

Reliable performance even in harsh environments. Quiet operation and great flexibility.

Note: Heat sink required to achieve max. amp capacity. Sold separately, this page.

Max. Output Amps w/ Heat Sink	Relay Turns On At	DC INPUT 24 to 280V AC Output Input or Control Voltage Range	Item No.	DC INPUT 48 to 530V AC Output Input or Control Voltage Range	Item No.	AC INPUT 24 to 280V AC Output Input or Control Voltage Range	Item No.	AC INPUT 48 to 530V AC Output Input or Control Voltage Range	Item No.	AC INPUT 24 to 530V AC Output Input or Control Voltage Range	Item No.
1-Pole, SCR Normally Closed Output											
25 A	Zero Crossing	3 to 32V DC	**1DTJ7**	—	—	—	—	—	—	—	—
1-Pole, SCR Output											
10 A	Zero Crossing	3 to 32V DC	**1DTE9**	—	—	90 to 280V AC	**1DTG1**	—	—	—	—
12 A	Zero Crossing	—	—	4 to 32V DC	**1DTF5**	—	—	90 to 280V AC	**1DTG6**	—	—
18 A	Zero Crossing	3 to 15V DC	**1DTK4**	—	—	—	—	—	—	—	—
25 A	Zero Crossing	—	—	—	—	90 to 280V AC	**1DTG2**	90 to 280V AC	**1DTG7**	—	—
25 A	Zero Crossing	3 to 32V DC	**1DTF1**	4 to 32V DC	**1DTF6**	18 to 36V AC	**1DTH6**	18 to 36V AC	**1DTH8**	—	—
25 A	Instantaneous/Random	3 to 32V DC	**1DTJ1**	4 to 32V DC	**1DTJ4**	—	—	—	—	—	—
50 A	Zero Crossing	—	—	—	—	90 to 280V AC	**1DTG3**	90 to 280V AC	**1DTG8**	—	—
50 A	Zero Crossing	3 to 32V DC	**1DTF2**	4 to 32V DC	**1DTF7**	18 to 36V AC	**1DTH7**	18 to 36V AC	**1DTH9**	—	—
50 A	Instantaneous/Random	3 to 32V DC	**1DTJ2**	4 to 32V DC	**1DTJ5**	—	—	—	—	—	—
75 A	Zero Crossing	3 to 32V DC	**1DTF3**	4 to 32V DC	**1DTF8**	90 to 280V AC	**1DTG4**	90 to 280V AC	**1DTG9**	—	—
90 A	Zero Crossing	3 to 32V DC	**1DTF4**	4 to 32V DC	**1DTF9**	90 to 280V AC	**1DTG5**	90 to 280V AC	**1DTH1**	—	—
90 A	Instantaneous/Random	3 to 32V DC	**1DTJ3**	4 to 32V DC	**1DTJ6**	—	—	—	—	—	—
1-Pole, SCR Output, Includes Integral Heat Sink, DIN Rail/Flange											
10 A	Zero Crossing	4 to 32V DC	**1DTN3**	4 to 32V DC	**1DTN7**	—	—	—	—	—	—
20 A	Zero Crossing	4 to 32V DC	**1DTN4**	4 to 32V DC	**1DTN8**	110 to 280V AC	**1DTP2**	—	—	110 to 280V AC	**1DTP4** *
30 A	Zero Crossing	4 to 32V DC	**1DTN5**	4 to 32V DC	**1DTN9**	110 to 280V AC	**1DTP3**	—	—	110 to 280V AC	**1DTP5** *
30 A	Instantaneous/Random	4 to 32V DC	**1DTN6**	4 to 32V DC	**1DTP1**	—	—	—	—	—	—
45 A	Zero Crossing	—	—	4 to 32V DC	**1DTP6**	—	—	90 to 140V AC	**1DTR1**	—	—
65 A	Zero Crossing	—	—	3 to 32V DC	**1DTP8**	—	—	90 to 140V AC	**1DTR2**	—	—
2-Pole, SCR Output											
25 A	Zero Crossing	4 to 15V DC	**1DTH2**	4 to 15V DC	**1DTH4**	—	—	—	—	—	—
40 A	Zero Crossing	4 to 15V DC	**1DTH3**	4 to 15V DC	**1DTH5**	—	—	—	—	—	—
3-Pole, SCR Output											
50 A	Zero Crossing	—	—	4 to 32V DC	**1DTK6**	—	—	90 to 280V AC	**1DTK8**	—	—
50 A	Instantaneous/Random	—	—	4 to 32V DC	**1DTK7**	—	—	90 to 280V AC	**1DTK9**	—	—

** 24 to 530VAC output.*

Description	Item No.
Accessories	
Fingersafe Cover, 1-Phase	**1DTR3**
Fingersafe Cover, 3-Phase	**1DTR4**

Schneider Electric

Solid-State Relays

6CWZ6

6CVA3

6CWX3

Panel mount and DIN rail mount SSRs with standard LED indicator, internal snubber (AC output versions), zero-cross switching, and finger safe (IP20) terminals. DIN rail mount models come with integrated heat sinks. Ideal solutions for industrial automation, heating elements, lighting controls, packaging equipment, conveyors, plastic extrusion equipment, and commercial ovens.

Max. Output Amps w/ Heat Sink	3 to 32V DC INPUT			90 to 280V AC INPUT			4 to 32V DC INPUT		
	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.	24 to 280V AC Output Item No.	48 to 480V AC Output Item No.	48 to 600V AC Output Item No.
SCR, Includes Integral Heat Sink, Relay Turns On At Zero Crossing									
10 A	—	—	—	**6CWZ6**	—	**6CXA2** *	**6CWZ7**	—	**6CXA3** *
30 A	—	—	—	**6CWZ8**	—	**6CXA4** *	**6CWZ9**	—	**6CXA5** *
45 A	**6CXA1**	—	**6CXA7** *	**6CXA0** †	—	—	—	—	—
SCR, Relay Turns On At Zero Crossing									
10 A	**6CVA4**	**6CVC4**	—	**6CVA3**	**6CVC3**	—	—	—	—
25 A	**6CVA6**	**6CVC6**	—	**6CVA5**	**6CVC5**	—	—	—	—
40 A	**6CVA8**	**6CVC8**	—	**6CVA7**	**6CVC7**	—	—	—	—
50 A	**6CVC0**	**6CVD0**	—	**6CVA9**	**6CVC9**	—	—	—	—
75 A	**6CVC2**	—	—	**6CVC1**	**6CVD1**	—	—	**6CVD2**	—
Triac, Includes Internal Heat Sink, Relay Turns On At Zero Crossing									
8 A	**6CWX3**	**6CWX5**	—	**6CWX2**	**6CWX4**	—	—	—	—

Description	Mfr. Model	Item No.	Pkg. Qty.
Accessories for SCR Type Relays			
Heat Sink, Aluminum	SSR-HS	**6CXA8**	1
Thermal Pad, Mounts On Relay & Heat Sink, Eliminates the Need for Thermal Grease	SSR-TP	**6CXA9**	10

** Output rated 48 to 600VAC. † Input rated 90 to 140VAC.*

56GL24

OMRON®

Solid-State Relays

Feature zero cross isolation device. Built-in varistor effectively absorbs external surges. Include protective cover.

Note: Heat sink required to achieve max. amp capacity, sold separately.

Max. Output Amps w/ Heat Sink	Input or Control Voltage Range	Output or Controlled Voltage Range	Switch Type	Item No.
5 A	5 to 24V DC	24 to 240V AC	Phototriac	**56GL29**
10 A	5 to 24V DC	24 to 240V AC	Phototriac	**56LU49**
10 A	10 to 30V AC/DC	200 to 480V AC	Phototriac	**56GL27**
10 A	20 to 28V DC	100 to 240V AC	Phototriac	**5ZH24**
20 A	5 to 24V DC	24 to 240V AC	Phototriac	**56GL24**
25 A	5 to 24V DC	24 to 240V AC	Phototriac	**56LU51**
40 A	5 to 24V DC	24 to 240V AC	Phototriac	**56LU52**
50 A	100 to 240V AC	400 to 600V AC	Photocoupler	**1YDP1**
Accessories				
Heat Sink, 20 Amps or Less				**6C911**
Heat Sink, 25 Amps and Greater				**6C912**

SPST
12N665

DPST
12N667

3PST
12N676

STRUTHERS-DUNN

Mercury Displacement Contactors

- Normally open contacts
- Matching footprint to DP contactors
- Hermetically sealed

Sealed liquid-mercury contactors have frictionless plunger that eliminates metal-to-metal wear. Ambient temp. range: -30° to 165°F under continuous load. Vertical mounting only. Suitable for heating and motor loads with frequent On/Off cycles. UL Listed and CSA Certified.

Contact Amp Rating (Resistive)	Contact Form	H	W	D	Mfr. Model	24V AC COIL Item No.	120V AC COIL Item No.	240V AC COIL Item No.
35 A	SPST	5.05 in	1.94 in	2.3 in	M35A	—	**12N665**	—
35 A	DPST	4.95 in	3.51 in	2.54 in	M35AA	—	**12N667**	**12N668**
35 A	3PST	4.98 in	3.75 in	3.39 in	M35AAA	**12N669**	**12N670**	**12N671**
60 A	SPST	5.05 in	1.94 in	2.3 in	M60A	—	**12N672**	**12N673**
60 A	DPST	4.95 in	3.51 in	2.54 in	M60AA	—	**12N674**	**12N675**
60 A	3PST	4.98 in	3.75 in	3.39 in	M60AAA	—	**12N676**	**12N677**

5LE35

RIB Functional Devices, Inc.

RIB Relay in a Box

- NEMA 1 enclosure with ½" NPT nipple, except ¾" on 2ERZ6 and 2ERZ7
- General purpose; ready to install
- LED indicators
- 16" leads

Prewired; multivoltage coil inputs enable 1 relay to replace many different types of relays. Easy to mount. Use for controlling high-voltage appliances with low-voltage signals, such as exhaust fans, vacuums, and motors. UL and C-UL Listed.

Contact Form	Coil Volts	Description	HP @ 120V	HP @ 240V	Dim.	Mfr. Model	Item No.
Emergency Lighting Relay, 20A							
SPDT	120V AC, 24V AC/DC	Bypass/Shunt	1 hp	—	2.3"H x 3.2"W x 1.8"D	ESR2401B	**21GP48**
SPDT	208 to 277V AC, 24V AC/DC	Bypass/Shunt	1 hp	—	2.3"H x 3.2"W x 1.8"D	ESR2402B	**21GP49**
DPDT	120V AC	Bypass/Shunt	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	ESR01P	**21GP53**
DPDT	208 to 277V AC	Bypass/Shunt	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	ESR02P	**21GP54**
Emergency Lighting Relay, UL924, 10A							
DPDT	208 to 277V AC, 24V AC/DC	Bypass/Shunt	⅓ hp, ½ hp	⅓ hp, ½ hp	1.7"H x 2.8"W x 1.5"D	ESR2402D	**21GP50**
Pilot Duty, 10A							
SPST	10 to 30V AC/DC, 120V AC	Override Switch	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	2.3"H x 3.2"W x 1.8"D	RIBU1S	**2ERZ9**
SPST	10 to 30V AC/DC, 208 to 277V AC	Override Switch	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	2.3"H x 3.2"W x 1.8"D	RIBH1S	**2ERZ8**
SPDT	10 to 30V AC/DC, 120V AC	—	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	1.7"H x 2.8"W x 1.5"D	RIBU1C	**5LE35**
SPDT	10 to 30V AC/DC, 120V AC	NEMA 4X Enclosure	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	1.7"H x 2.8"W x 1.5"D	RIBU1C-N4	**2ERZ5**
SPDT	10 to 30V AC/DC, 208 to 277V AC	—	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	1.7"H x 2.8"W x 1.5"D	RIBH1C	**5LE34**
SPDT	120 to 277V AC	Dry Contact Relay	½ hp	1 hp	1.7"H x 2.8"W x 1.5"D	RIB21CDC	**2ETA5**
SPDT	120 to 277V AC, 24V AC/DC	—	½ hp	1 hp	1.7"H x 2.8"W x 1.5"D	RIB2421C	**2ETA6**
DPDT	120V AC, 24V AC/DC	—	⅓ hp, ½ hp	⅓ hp, ½ hp	1.7"H x 2.8"W x 1.5"D	RIB2401D	**2ETA3**
DPDT	208 to 277V AC, 24V AC/DC	—	⅓ hp, ½ hp	⅓ hp, ½ hp	1.7"H x 2.8"W x 1.5"D	RIB2402D	**2ETA4**
(3) SPST, SPDT	10 to 30V AC/DC	3 Relays	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	4.0"H x 4.0"W x 1.8"D	RIBL3C	**2ETA1**
(3) SPST, SPDT	10 to 30V AC/DC	4 Relays	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	4.0"H x 4.0"W x 1.8"D	RIBL4C	**2ETA2**
(2) SPDT	10 to 30V AC/DC, 120V AC	2 Relays	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	2.3"H x 3.2"W x 1.8"D	RIBU2C	**2ERZ6**
(2) SPDT	10 to 30V AC/DC, 208 to 277V AC	2 Relays	1/6 hp, ⅓ hp	1/6 hp, ⅓ hp	2.3"H x 3.2"W x 1.8"D	RIBH2C	**2ERZ7**
Pilot Duty, 20A							
SPST	120/208 to 277V AC, 24V AC/DC	Override Switch	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2421SB	**21GP32**
SPST	120V AC, 24V AC/DC	Override Switch	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2401SB	**2ETA7**
SPST	208 to 277V AC, 24V AC/DC	Override Switch	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2402SB	**2ETA8**
SPDT	120/208 to 277V AC, 24V AC/DC	—	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2421B	**21GP31**
SPDT	120V AC	Dry Contact Relay	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB01BDC	**21GP41**
SPDT	120V AC, 24V AC/DC	—	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2401B	**5LE36**
SPDT	208 to 277V AC	Dry Contact Relay	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB02BDC	**21GP42**
SPDT	208 to 277V AC, 24V AC/DC	—	1 hp	—	2.3"H x 3.2"W x 1.8"D	RIB2402B	**5LE37**
DPDT	24V AC/DC	—	1 hp	2 hp	2.3"H x 3.2"W x 1.8"D	RIB24P	**2ETA9**
DPDT	120V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB01P	**2ETC1**
DPDT	208 to 277V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB02P	**2ETC2**
DPDT	480V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB04P	**2ETC3**
3PST	24V AC/DC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB243P	**21GP33**
3PST	120V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB013P	**21GP34**
3PST	208 to 277V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB023P	**21GP35**
3PST	480V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB043P	**21GP36**
Pilot Duty, 30A							
DPST	120V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB01P30	**21GP39**
DPST	208 to 277V AC	—	1 hp	2 hp	4.0"H x 4.0"W x 1.8"D	RIB02P30	**21GP40**
DPDT	12V AC/DC	—	1 hp	2 hp	2.3"H x 3.2"W x 1.8"D	RIB12P30	**21GP37**
DPDT	24V AC/DC	—	1 hp	2 hp	2.3"H x 3.2"W x 1.8"D	RIB24P30	**21GP38**

39F066

EATON

Current Sensors

Solid-state adjustable current switch is self-powered and able to sense current and provide output above and below setpoint. Suitable for applications such as jam detection, overload protection, and critical loads.

Core Type	Sensing Amp Range	Status Indicator	1NC Mfr. Model	1NC Item No.	1NO Mfr. Model	1NO Item No.
Solid	1.00 to 150.00A	LED	ECSNCFSC	**39F064**	ECSNOASC	**39F063**
Solid	1.00 to 150.00A	LED	ECSNCASC	**39F062**	ECSNOFSC	**39F065**
Split	1.75 to 150.00A	LED	ECSNCASP	**39F067**	ECSNOASP	**39F068**
Split	1.75 to 150.00A	LED	ECSNCFSP	**39F069**	ECSNOFSP	**39F066**

Universal AC Current Sensors

Sensors detect locked rotor, loss of current, open heater, or lamp load. Dayton and Schneider models feature switch-selectable overcurrent or undercurrent sensing. Toroidal sensor has 0.36" through hole on Dayton models.

Contact Amps	Input Voltage	Contact Form	Trip Point	Trip Delay	Electrical Connection	Mfr. Model	Item No.
Airotronics							
1.00A	3 to 50VDC	1NO	Adjustable 3.00 to 45.00A	0.30 sec	Quick Connect Tabs	HCSDC045A	**21EU16**
1.00A	Self Powered	1NO	Adjustable 6.00 to 30.00A	0.30 sec	Quick Connect Tabs	HCSDC030A	**21EU15**
20.00A	Self Powered	LED	Adjustable 1.00 to 20.00A	None	Wire Leads	CSW/LED	**21EU14**
Dayton							
10.00A	24VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C054	**6C054**
10.00A	24VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V826	**15V826**
10.00A	120VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C055	**6C055**
10.00A	120VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V827	**15V827**
10.00A	240VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C057	**6C057**
10.00A	240VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V828	**15V828**
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec	Terminal Strip	1EJF3	**1EJF3**
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec	Terminal Strip	1EJF4	**1EJF4**
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec	Terminal Strip	1EJF5	**1EJF5**
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec	Terminal Strip	1EJF6	**1EJF6**
Macromatic							
10.00A	24VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec	Terminal Strip	CAP10AD68	**485R28**
10.00A	120VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec	Terminal Strip	CAP10AD62	**485R27**
RIB							
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec	Terminal Strip	RIBXKTF	**21AJ42**
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec	16 in Wire Leads	RIBXKF	**21AJ44**
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec	Terminal Strip	RIBXGTF	**21AJ45**
0.40A	30VAC/DC	1NO	Adjustable 0.75 to 150.00A	Less than 1 sec	Terminal Strip	RIBXGTA	**21AJ46**
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec	16 in Wire Leads	RIBXGF	**21AJ47**
0.80A	30VAC/DC	1NO	Adjustable 0.50 to 150.00A	Less than 1 sec	Terminal Strip	RIBXKTA	**21AJ43**
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec	Terminal Strip	RIBXGHTF	**21AJ48**
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec	16 in Wire Leads	RIBXGHF	**21AJ49**
Schneider Electric							
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec	Terminal Strip	841CS1-UNI	**6CWU0**
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec	Terminal Strip	841CS2-UNI	**6CWU1**
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec	Terminal Strip	841CS5-UNI	**6CWU2**
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec	Terminal Strip	841CS8-UNI	**6CWU3**

21EU16

6C054

6CWU3

1-Phase Voltage Sensing Relays

- Field adjustable for pull-up and dropout
- LED status indicators
- 0.1- to 10-sec. activation delay

Solid-state sensor works as an overvoltage or undervoltage detecting relay to prevent equipment burnout and offer brownout protection.

Input Voltage	Contact Form	Contact Amp Rating (Resistive)	Pick-Up Range	Drop-Out Range	Base Type	Socket	Mfr. Model	Item No.
12VDC	DPDT	10	9 to 15V DC	7 to 14V DC	Octal	5X852, 1EGP3, 1EGP5	VAKP012D	**45LV06**
24VDC	DPDT	10	18 to 30V DC	14 to 28V DC	Octal	5X852, 1EGP3, 1EGP5	VAKP024D	**45LV07**
120VAC	SPDT	15	80 to 150V AC	30% to 95%	DIN Rail	—	VWKE120A	**23NV46**
120VAC	DPDT	10	90 to 150V AC	68 to 142V AC	Octal	5X852, 1EGP3, 1EGP5	VAKP120A	**45LV08**
240VAC	SPDT	10	180 to 300V AC	135 to 285V AC	Octal	5X852	VAKP240A	**45LV09**
240VAC	SPDT	15	160 to 276V AC	30% to 95%	DIN Rail	—	VWKE240A	**23NV47**

23NV46

45LV09

3-Phase Line Monitors/ Phase Failure Relays

- Automatic reset
- LED indicator signals normal operation
- Wye or delta 3-wire hookup

Units protect against phase loss, phase unbalance (except 5WMJ4, 5WMJ5, and 5WMJ6), phase reversal, and undervoltage. Adjustable undervoltage setting. 12N828 and 5WMJ3 also detect overvoltage.

Input Voltage	Contact Form	Voltage Unbalance	Socket	Brand	Mfr. Model	Item No.
190 to 500VAC	SPDT	2 to 10	5X852	Dayton	PMPU-B18	**31EE08**
190 to 500VAC	SPDT	2 to 10	5X852	Macromatic	PMPU	**5WMJ3**
190 to 500VAC	SPDT	6	5X852	Dayton	PMPU-FA8B18	**31EE09**
190 to 500VAC	SPDT	6	5X852	Macromatic	PMPU-FA8	**6MPP2**
190 to 500VAC	SPDT	—	5X852	Macromatic	PCPU	**45LU83**
190 to 500VAC	DPDT	—	—	Macromatic	PMDU	**45LU85**
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TA00	**12N827**
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TE00	**12N828**
208 to 480VAC	DPDT	2	—	Schneider Electric	RM35TF30	**12N826**
208VAC	SPDT	—	5X852	Macromatic	PAP208	**5WMJ4**
240VAC	SPDT	—	5X852	Macromatic	PAP240	**5WMJ5**
480 to 600VAC	SPDT	—	5X852	Macromatic	PMP575	**45LU84**
480 to 600VAC	DPDT	—	—	Macromatic	PMD575	**45LU86**
480VAC	SPDT	—	5X852	Macromatic	PAP480	**5WMJ6**

5WMJ3

12N826

Alternating Relays

- Octal Base
- LED status indicators

Relays alternate the operation of 2 loads, sharing their run time. Selector switch allows alternating or individual operation of either load. Dual-stage load capacity permits simultaneous operation of 2 motors, solenoids, compressors, pumps, valves, or heaters. The relays return to load "A" after power outage. UL Recognized and CSA Certified.

Contact Form	Pins	Socket	Amps	Brand	24V AC Mfr. Model	24V AC Item No.	120V AC Mfr. Model	120V AC Item No.	240V AC Mfr. Model	240V AC Item No.
SPDT	8	5X852	10	Macromatic	—	—	ARP120A6R	**6MPP1**	—	—
DPDT Cross-Wired	8	5X852	10	Macromatic	ARP024A3R	**6MPN8**	ARP120A3R	**6MPN9**	ARP240A3R	**6MPP0**
DPDT Cross-Wired	8	5X852, 1EGP3, 1EGP5	10	Dayton	6C051	**6C051**	6C052	**6C052**	6C053	**6C053**

(Coil volts: 24V AC, 120V AC, 240V AC)

6MPN9

Pump Seal Failure Relay

- 8-pin octal base
- LED status indicator

Designed to monitor shaft seals in submersible pumps, and to provide an early warning of seal leak. 5WMJ7 is a single-channel unit, and 5WMJ8 is a dual-channel unit capable of monitoring 2 pumps.

Voltage	Switch Type	Max. Amps	Mfr. Model	Item No.
120VAC	SPDT	10	SFP120A100	**5WMJ7**
120VAC	(2) SPNO	10	SFP120C100	**5WMJ8**

5WMJ7

Time-Delay Relay Selection Guide

Description of Time Delay Operation	Operation	Timing Periods					Function Code
ON DELAY: When power is APPLIED to the coil, the ON DELAY timing period begins. The contacts do not transfer at this time. At the end of the ON DELAY time period the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. The contacts stay in the transferred state until power is REMOVED from the coil. They then return to their original state and the unit is ready for a new cycle.	Power	On	On	On	On	Off	1
	Load	Off	On	On	On	Off	
OFF DELAY I: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the start switch is OPENED, the OFF DELAY timing period begins. The contacts stay in the transferred position until the OFF DELAY timing period ends. They then return to their original position and the unit is ready for a new cycle.	Power	On	On	On	On	On	2
	Switch	Off	On	On	Off	Off	
	Load	Off	On	On	On	Off	
OFF DELAY II: Power is applied to the coil at all times. Upon the MAKE and RELEASE of the start switch (a "dry" external contact), the OFF DELAY timing period begins and the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the timing period ends, the contacts return to their original position and the unit is ready for a new cycle.	Power	On	On	On	On	On	3
	Switch	Off	On	Off	Off	Off	
	Load	Off	Off	On	On	Off	
INTERVAL DELAY: When power is APPLIED to the coil (the start switch must be jumped in multifunction timers), the INTERVAL timing period begins and the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When the INTERVAL timing period ends, the contacts return to their original position. The unit resets when power is removed from the coil, making the unit ready for a new cycle.	Power	On	On	On	On	Off	4
	Load	On	On	Off	Off	Off	
CYCLE 1 SHOT (EQUAL TIME OFF/ON): Upon application of power to the timer, timing starts. The output relay is OFF for the set time and then ON for the set time for 1 cycle only. The timer is reset when power is removed or a reset input is applied.	Power	On	On	On	On	On	5
	Switch	Off	Off	Off	On	On	
	Load	Off	On	Off	Off	On	
REPEAT CYCLE (EQUAL ON AND OFF DELAY TIME PERIODS): When power is APPLIED to the coil, the OFF time period is initiated; the contacts do not transfer. At the end of the OFF time period the ON time period begins. The contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. At the end of the ON period, the contacts transfer and the cycle continues until power is removed from the coil.	Power	On	On	On	On	On	6
	Load	Off	On	Off	On	Off	
REPEAT CYCLE (INDEPENDENT ON AND OFF DELAY TIME PERIODS): When power is APPLIED to the coil, the ON period is initiated by contact transfer (normally open contacts close, normally closed contacts open). At the end of the OFF period, contacts release and the ON period begins. The cycle continues until power is removed from the coil.	Power	On	On	On	On	On	7
	Load	On	Off	On	Off	On	
SIGNAL INTERVAL/OFF DELAY: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the INTERVAL cycle begins; the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. At the end of the INTERVAL cycle, the OFF DELAY cycle begins and the contacts stay transferred until the OFF DELAY cycle ends. The contacts then return to their original positions and the unit is ready for a new cycle.	Power	On	On	On	On	On	8
	Switch	On	On	Off	Off	Off	
	Load	On	On	On	Off	Off	
SIGNAL ON DELAY/OFF DELAY: Power is applied to the coil at all times. Upon CLOSURE of the start switch (a "dry" external contact), the ON DELAY cycle begins; the contacts do not transfer. At the end of the ON DELAY cycle the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. Upon RELEASE of the start switch, the OFF DELAY cycle begins; the contacts remain transferred. At the end of the OFF DELAY cycle, the contacts return to their original positions and the unit is ready for a new cycle.	Power	On	On	On	On	On	9
	Switch	On	On	Off	Off	Off	
	Load	Off	On	On	Off	Off	
POWER OFF DELAY: When power is APPLIED to the coil, the contacts transfer, either connecting (normally open contacts) or disconnecting (normally closed contacts) the load. When power is removed from the coil, the OFF DELAY timing period begins; contacts remain transferred. At the end of the OFF DELAY cycle, the contacts return to their original positions and the unit is ready for a new cycle.	Power	On	On	On	Off	Off	10
	Load	On	On	On	On	Off	
WATCHDOG (RETRIGGERABLE SINGLE SHOT): Upon application of input voltage, the time delay relay is ready to accept trigger signals. Upon application of the trigger signal, the relay is energized and the preset time begins. At the end of the preset time, the relay is de-energized unless the trigger signal is closed and opened prior to time out (before preset time elapses). Continuous cycling of the trigger signal at a rate faster than the preset time will cause the relay to remain energized.	Power	On	On	On	On	On	11
	Switch	Off	On	Off	Off	On	
	Load	Off	On	On	Off	On	

6A857

21EW83

21EP67

Dayton® AIROTRONICS Timers & Controls MACROMATIC

Encapsulated Time-Delay Relays

Solid-state technology provides a long service life, reducing maintenance costs and production loss due to downtime. ¼" quick-connect.

Function	Pins	Contact Form	Amps	Input Voltage	Timer Range	Item No.
Solid-State Output, Dayton						
Off Delay	5	SPST-NO	1A	24-240VAC	0.50 sec.-10.00 sec.	**6A857**
	5	SPST-NO	1A	24-240VAC	3.00 sec.-60.00 sec.	**6A858**
	5	SPST-NO	1A	24-240VAC	15.00 sec.-300.00 sec.	**6A859**
	5	SPST-NO	1A	24VAC	0.05 sec.-1.00 sec.	**5WML4**
	5	SPST-NO	1A	12-125VDC	0.05 sec.-1.00 sec.	**5WML7**
	5	SPST-NO	1A	12-125VDC	0.50 sec.-10.00 sec.	**5WML8**
	5	SPST-NO	1A	12-125VDC	3.00 sec.-60.00 sec.	**5WML9**
On Delay	2	SPST-NO	1A	24-240VAC/12-48VDC	0.05 sec.-1.00 sec.	**2A559**
	2	SPST-NO	1A	24-240VAC/12-48VDC	0.25 sec.-5.00 sec.	**2A560**
	2	SPST-NO	1A	24-240VAC/12-48VDC	0.50 sec.-10.00 sec.	**2A561**
	2	SPST-NO	1A	24-240VAC/12-48VDC	3.00 sec.-60.00 sec.	**2A562**
Relay Output, Airotronics						
Interval/Watchdog	6	SPDT	10A	120VAC	1.00 sec.-100.00 sec.	**21EW97**
	6	SPDT	10A	24VAC	1.00 sec.-100.00 sec.	**21EW98**
	6	SPDT	10A	24-28VDC	1.00 sec.-100.00 sec.	**21EW99**
	6	SPDT	10A	12VDC	1.00 sec.-100.00 sec.	**21EX01**
On Delay	2	SPST-NO	1A	19-265VAC/10-120VDC	0.01 sec.-102.30 sec.	**21EW87**
	2	SPST-NO	1A	19-265VAC/10-120VDC	1.00 sec.-1023.00 sec.	**21EW88**
	2	SPST-NO	1A	19-265VAC/10-120VDC	10.00 sec.-10,230.00 sec.	**21EW89**
On Delay, Off Delay, 1-Shot, Interval, Reset 1-Shot/Watchdog	6	SPDT	10A	120VAC	0.10 sec.-1023 min.	**21EW77**
	6	SPDT	10A	230VAC	0.10 sec.-1023 min.	**21EW78**
	6	SPDT	10A	24VAC	0.10 sec.-1023 min.	**21EW79**
	6	SPDT	10A	12VDC	0.10 sec.-1023 min.	**21EW80**
	6	SPDT	10A	24VDC	0.10 sec.-1023 min.	**21EW81**
On Delay, Off Delay, 1-Shot On Make, Interval On, 1-Shot On Break, Retrigger Interval, Retrigger 1-Shot, Delay On Make w/ Initiate, Repeat Cycle On/Off Delay	6	SPDT	10A	120VAC	1.00 sec.-100 min.	**21EW82**
	6	SPDT	10A	230VAC	1.00 sec.-100 min.	**21EW83**
	6	SPDT	10A	24VAC	1.00 sec.-100 min.	**21EW84**
	6	SPDT	10A	12VDC	1.00 sec.-100 min.	**21EW85**
	6	SPDT	10A	24VDC	1.00 sec.-100 min.	**21EW86**
Repeat Cycle	5	SPDT	10A	120VAC	0.10 sec.-102.30 sec.	**21EW91**
	5	SPDT	10A	120VAC	1.00 sec.-1023.00 sec.	**21EW92**
	5	SPDT	10A	24VAC	0.10 sec.-102.30 sec.	**21EW93**
	5	SPDT	10A	24VAC	1.00 sec.-1023.00 sec.	**21EW94**
	5	SPDT	10A	12VDC	0.10 sec.-102.30 sec.	**21EW95**
	5	SPDT	10A	12VDC	1.00 sec.-1023.00 sec.	**21EW96**
Repeat Cycle Equal Time	2	SPST-NO	1A	24-240VAC/12-48VDC	Fixed 0.80 sec.	**21EW90**
Relay Output, Macromatic						
On Delay, Off Delay, Interval, 1-Shot	9	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-100 min.	**21EP67**
Repeat Cycle Equal Time, Watchdog, 1-Shot Falling Edge	9	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-100 min.	**21EP68**
Repeat Cycle Independent On and Off Delay Time Periods, Delayed Interval, Triggered Delayed Interval	7	SPDT	10A	24-240VAC/12-125VDC	0.10 sec.-1000 min.	**21EP69**

** See this page for operating function information.*

H7851

Extended Time-Delay Relays

Dayton® Schneider Electric

Pins	Base Type	Contact Form	Contact Amp Rating (Resistive)	Operating Functions	Socket Code†	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	DAYTON Item No.	SCHNEIDER ELECTRIC Item No.
On Delay										
8	Square	DPDT	5A	1	Q	12V DC; 24V AC; 24V DC; 120V AC; 240V AC	0.10 sec.	100 hr.	**H7851**	**H7849**
14	Square	4PDT	3A	1	G		0.10 sec.	100 hr.	**H7850**	**H7848**

† See page 216 for sockets.

SQUARE D by Schneider Electric · Dayton · EATON · OMRON · MACROMATIC · Schneider Electric · Autonics Sensors & Controllers

Multifunction Time-Delay Relays

H7785

1EJN6

H7781

H7793

1A983

2A179

Function	Pins	Contact Form	Contact Amp Rating (Resistive)	Function Code*	Socket Code†	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	Item No.
Dayton									
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, On/Off Delay, Latching Relay, Pulse Generator, Watchdog	6	SPDT	15A	1, 2, 3, 4, 6, 8, 9	—	12 to 240V AC/DC	0.1 sec.	240 hr.	**31EE11**
	9	DPDT	15A	1, 2, 3, 4, 6, 8, 9	—	12 to 240V AC/DC	0.1 sec.	240 hr.	**31EE12**
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, Watchdog (Retriggerable Single Shot), Single Shot (Falling Edge), Triggered On Delay, Repeat Cycle (Off First), Repeat Cycle (On First), Delayed Interval, Triggered Delayed Interval, On/Off Delay, Single Shot/Flasher, On Delay/Flasher	8	SPDT	10A	1, 2, 3, 4, 5, 6, 7, 8, 9, 11	A	120V AC/DC	50 msec	10,230 hr.	**31EE10**
On Delay, Interval On, Off Delay, Single Shot, Flasher (Off First), Flasher (On First), On/Off Delay, Single Shot Falling Edge, Watchdog, Triggered On Delay	11	DPDT	10A	1, 2, 3, 4, 6, 7, 9, 11	B	12V DC; 24V AC/DC; 120V AC; 240V AC	0.05 sec.	999 hr.	**H7785**
On Delay, Off Delay, Interval Delay, Cycle 1 Shot, Repeat Cycle, Signal Interval/Off Delay, Signal On Delay/Off Delay	8	SPDT	12A	1, 2, 4, 5, 6, 8, 9	A	12 to 240V AC/DC	0.1 sec.	9990 hr.	**1EJN7**
	11	DPDT	12A	1, 2, 4, 5, 6, 8, 9	B	12 to 240V AC/DC	0.1 sec.	9990 hr.	**1EJN6**
Eaton									
ON Delay, Interval, Cycle (Off First), Cycle (On First)	8	DPDT	10A	1, 2, 3, 4	A	24V AC/DC; 120V AC	0.1 sec.	600 hr.	**H7786**
	11	DPDT	10A	1, 2, 3, 4	C	24V AC/DC	0.1 sec.	600 hr.	**H7784**
	11	DPDT	10A	1, 2, 3, 4	B	120V AC	0.1 sec.	600 hr.	**H7784**
ON Delay (Voltage Controlled), OFF Delay (with Control Input), Single Shot Leading Edge (Voltage Controlled), Symmetric Pulse Generator	8	SPDT	8A	8, 9, 10 + 1 Others	—	24 to 240V AC/DC	0.5 sec.	100 hr.	**20XF98**
Macromatic									
On Delay, Interval On, Flasher(Off First), Flasher(On First), Off Delay, Single Shot, On/Off Delay, Latching Relay, Pulse Generator(Pulse=0.5 Sec.),Watchdog	6	SPDT	15A	1, 2, 4, 6, 9, 11	—	12 to 240V AC/DC	0.1 sec.	240 hr.	**23NV42**
	9	DPDT	15A	1, 2, 4, 6, 9, 11	—	12 to 240V AC/DC	0.1 sec.	240 hr.	**23NV43**
On Delay, Interval On, Flasher (Off First), Flasher (On First), Off Delay, Single Shot, Watchdog, Single Shot (Trailing Edge), Triggered On Delay, Repeat Cycle (Off First), Repeat Cycle (On First), Delayed Interval, Triggered Delayed Interval, On Delay/Off Delay, Single Shot-Flasher & On Delay/Flasher	8	SPDT	10A	1, 2, 3, 4, 5, 6, 7, 9, + 8 Others	A	24V AC/DC; 120V AC/DC; 240V AC	50 msec	10,230 hr.	**H7781**
Omron									
On Delay, Interval Delay, Cycle 1 Shot	8	DPDT	5A	1, 4, 5, 6	A	24 to 48V AC/12 to 48V DC	0.05 sec.	300 hr.	**H7806**
On Delay, Interval Delay, Repeat Cycle Equal On/Off Times	8	DPDT	5A	1, 4, 6	K	24V AC; 120V AC; 200 to 240V AC	0.1 sec.	10 min.	**H7793**
	14	4PDT	3A	1, 4, 6	G	120V AC	0.1 sec.	10 min.	**4KN17**
On Delay, Interval Delay, Repeat Cycle Equal On/Off Times, Cycle 1 Shot	8	DPDT	5A	1, 4, 5, 6	A	100 to 125V DC, 100 to 240V AC	0.05 sec.	300 hr.	**H7806**
On Delay, Off Delay 1, Off Delay 2, Interval Delay, Cycle 1 Shot, Repeat Cycle Equal On/Off Time, Signal Interval/Off Delay, Signal On Delay/Off Delay	11	SPDT	3A	1, 2, 3, 4, 5, 6, 8, 9	B	24 to 240V AC/12 to 240V DC	0.1 sec.	9990 hr.	**1A983**
Power Off Delay	8	DPDT	5A	10	A	120V AC	0.05 sec.	12 sec.	**6C759**
	8	DPDT	5A	10	A	120V AC	3 sec.	12 min.	**2A436**
Repeat Cycle	8	DPDT	5A	7	A	100 to 125V DC, 100 to 240V AC	0.05 sec.	30 hr.	**2A179**
Schneider Electric									
On Delay, Off Delay, Interval Delay, Cycle 1 Shot, Repeat Cycle	11	DPDT	12A	1, 2, 4, 5, 6	B	12 to 240V AC/DC	0.1 sec.	9990 hr.	**6AGT7**
On Delay (Power On), Repeat Cycle (Starting Off), Interval (Power On)	8	DPDT	12A	1, 2, 4, 5	A	12 to 240V AC/DC	0.1 sec.	9990 hr.	**6CXD1**
On Delay (Power On), Repeat Cycle (Starting Off), Interval (Power On), Off Delay (S Break), Retriggerable One Shot, Repeat Cycle (Starting On), Pulse Generator, One Shot, On/Off Delay (S Make/Break), Memory Hold (S Make)	8	SPDT	12A	1, 2, 4, 5	A	12 to 240V AC/DC	0.1 sec.	9990 hr.	**6CXD0**
Square D									
Off Delay, On Delay, Interval, One shot, Repeat Cycle	11	DPDT	10A	1, 2, 4, 5, 6	B	24V AC/DC; 120V AC; 240V AC	0.05 sec.	999 min.	**H7788**

** See page 222 for timing functions. † See page 216 for sockets.*

Dayton · MACROMATIC

Time-Delay Relays

H7800

H7827

H7812

H7840

Pins	Base Type	Contact Form	Contact Amp Rating (Resistive)	Operating Functions†	Socket Code‡	▶CHOOSE: Coil Volts	Min. Time Setting	Max. Time Setting	DAYTON Item No.	MACROMATIC Item No.
Interval On										
8	Octal	DPDT	10A	4	A	12V DC; 24V AC/DC; 120V AC/DC; 240V AC	0.10 sec.	10 sec.	**H7811**	**H8234**
							0.60 sec.	60 sec.	**H7822**	**H7794**
							1.80 sec.	3 min.	**H7820**	**H7795**
							3.00 sec.	5 min.	**H7821**	**H7796**
Off Delay										
11	Octal	DPDT	10A	2	B	12V DC; 24V AC/DC; 120V AC/DC; 240V AC	0.10 sec.	10 sec.	**H7824**	**H7797**
							0.60 sec.	60 sec.	**H7800**	**H7801**
							1.80 sec.	3 min.	**H7826**	**H7802**
							3.00 sec.	5 min.	**H7827**	**H7803**
							9.00 sec.	15 min.	**H7825**	**H7804**
On Delay										
8	Octal	DPDT	10A	1	A	12V DC; 24V AC/DC; 120V AC/DC; 240V AC	0.01 sec.	1 sec.	**H7805**	—
							0.05 sec.	5 sec.	**H7808**	**H7829**
							0.05 sec.	999 hr.	**H7809**	—
							0.10 sec.	10 sec.	**H7810**	**H7830**
							0.60 sec.	60 sec.	**H7816**	**H7831**
							1.80 sec.	3 min.	**H7815**	**H7832**
							3.00 sec.	5 min.	**H7823**	**H7833**
						12V DC; 24V AC/DC; 120V AC; 240V AC	9.00 sec.	15 min.	**H7813**	—
						12V DC; 24V AC/DC; 120V AC/DC; 240V AC	9.00 sec.	15 min.	—	**H7834**
Power Off Delay (True Off Delay)										
8	Octal	DPDT	10A	10	A	12V DC; 24V AC/DC; 120V AC/DC; 240V AC	0.05 sec.	30 min.	**H7807**	**H7840**
Repeat Cycle (On First)										
8	Octal	DPDT	10A	7	A	12V DC; 24V AC/DC; 120V AC/DC; 240V AC	0.10 sec.	10 sec.	**H7812**	**H7835**
							0.60 sec.	60 sec.	**H7819**	**H7836**
							1.80 sec.	3 min.	**H7817**	**H7837**
							3.00 sec.	5 min.	**H7818**	**H7838**
							9.00 sec.	15 min.	**H7814**	**H7839**

† See page 222 for timing functions. ‡ See page 216 for sockets.

1CNL2

1CNL4

Accessories		
CD-ROM Programming Software	SR2SFT01	**1CNL6**
PC Connection Cable, RS-32 Connector	SR2CBL01	**1CNL7**
PC Connection Cable, PC USB to 1CNL7	SR2CBL06	**2GNW5**
PC Connection Cable, PC USB to Relay	SR2USB01	**2GNW8**
Memory Cartridge, EEPROM	SR2MEM02	**2GNX2**
Add-In Memory, EEPROM	SR2MEM01	**1CNL8**

Logic Relays and Extension Modules

Schneider Electric

- 16 counters and timers
- Integral display

Expandable design allows users to manage a simple automation system with multiple inputs and outputs, without the need for a complex programmable controller. 6-button navigation allows direct programming in any of several computer languages. Compact, space-saving design. Extension modules add inputs and outputs to customize systems for specific needs. Programming software 1CNL6 and PC connection cable 1CNL7 permit uploading programs from a PC, directly to multiple relays. Use for small machinery and supplemental large machinery automation systems, lighting management, security systems management, and HVAC management.

No. of Inputs	No. of Outputs	W	H	D	Mfr. Model	24V DC Item No.	100 to 240V AC Item No.	24V AC Item No.
Relay Output								
6	4	2.8 in	4.24 in	2.34 in	SR2D101	**2GNK4**	**2GNL4**	—
12	8	4.91 in	4.24 in	2.34 in	SR2E201	**2GNL1**	—	—
Relay Output with Clock								
8	4	2.8 in	4.24 in	2.34 in	SR2E121	**2GNK7**	**2GNL7**	—
12	8	4.91 in	4.24 in	2.34 in	SR2E201	—	**2GNN1**	—
Relay Output with Display								
12	8	4.91 in	4.24 in	2.34 in	SR2A201	**2GNH3**	**2GNJ7**	—
6	4	2.5 in	3.5 in	3.9 in	SR2A101	—	**1CNL2**	—
Relay Output with Display and Clock								
6	4	2.8 in	4.24 in	2.34 in	SR3B101	**2GNN5**	**2GNR8**	**2GNR1**
8	4	2.8 in	4.24 in	2.34 in	SR2B121	**1CNL1**	**1CNL3**	**2GNJ3**
12	8	4.91 in	4.24 in	2.34 in	SR2B201	**2GNH6**	**2GNK1**	**2GNJ5**
16	10	4.91 in	4.24 in	2.34 in	SR3B261	**2GNP4**	**2GNT2**	**2GNR4**
Transistor Output with Display and Clock								
6	4	2.8 in	4.24 in	2.34 in	SR3B102	**2GNN9**	—	—
8	4	2.8 in	4.24 in	2.34 in	SR2B122	**2GNG9**	—	—
12	8	4.91 in	4.24 in	2.34 in	SR2B202	**2GNH9**	—	—
16	10	4.91 in	4.24 in	2.34 in	SR3B262	**2GNP7**	—	—
Discrete Inputs/Outputs Extension Modules, For Use With SR3B Series Above								
4	2	—	—	—	SR3XT61	**2GNT8**	**2GNU5**	**2GNU2**
6	4	—	—	—	SR3XT101	**1CNL4**	**2GNV2**	**2GNU8**
8	6	—	—	—	SR3XT141	**2GNV5**	**1CNL5**	**2GNV8**
Analog Inputs/Outputs Extension Module, For Use With SR3B Series Above								
2	2	—	—	—	SR3XT43	**2GNW2**	—	—
Communications Extension Module, For Use With SR3B Series Above								
0	0	—	—	—	SR3MBU01	**2GNT5**	—	—

55PK29

Programmable Relays

EATON

Easy to use Programmable Relays feature expandable design that allows you to manage a simple automation system with multiple inputs and outputs, without the need for a complex programmable controller. Compact, space-saving design with extension modules that add inputs and outputs to customize systems for specific needs. They are also easy to connect via Ethernet or Profibus to other PLC's or automation systems. Use for small machinery and supplemental large machinery automation systems, lighting management, security systems management, and HVAC systems.

For Use With	Includes	No. of Inputs	No. of Outputs	Power Req.	Features	Item No.
Input/Output Module						
Easy E4 Control Relays	Screw Terminals	4	4 Relay	100 to 240V AC	Easy E4 Expansion I/O	**55PK26**
Easy E4 Control Relays	Screw Terminals	4	0	24V DC	Easy E4 Expansion I/O	**55PK28**
Easy E4 Control Relays	Screw Terminals	4	2	24V DC	Easy E4 Expansion I/O	**55PK29**
Easy E4 Control Relays	Screw Terminals	4	4	24V DC	Easy E4 Expansion I/O	**55PK30**
Easy E4 Control Relays	Screw Terminals	4	4	12 to 24V DC	Easy E4 Expansion I/O	**55PK32**
Easy E4 Control Relays	Screw Terminals	8	8 Relay	100 to 240V AC	Easy E4 Expansion I/O	**55PK25**
Easy E4 Control Relays	Screw Terminals	8	8	24V DC	Easy E4 Expansion I/O	**55PK27**
Easy E4 Control Relays	Screw Terminals	8	8	12 to 24V DC	Easy E4 Expansion I/O	**55PK31**
LCD						
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	100 to 240V AC	Diagnostic LED Display, Easy E4 Nano PLC	**55PK33**
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	24V DC	Diagnostic LED Display, Easy E4 Nano PLC	**55PK35**
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	12 to 24V DC	Diagnostic LED Display, Easy E4 Nano PLC	**55PK37**
No Display						
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	100 to 240V AC	Easy E4 Nano PLC	**55PK34**
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	24V DC	Easy E4 Nano PLC	**55PK36**
EasySoft PLC Software	Screw Terminals	4 Digital, 4 Digital or Analog	4	12 to 24V DC	Easy E4 Nano PLC	**55PK38**

2REP7

2REP1

OMRON INDUSTRIAL AUTOMATION

Programmable Relays

- 56 timers and 17 counters
- LCD with calendar and clock

Provide relay, timer, counter, and time switch functions; easily programmable in ladder-view format. With weekly and calendar timers, flexible mounting expansion via 8-point I/O units, twin-timer operation, and multilanguage display. DC models have analog inputs. For use in time-controlled and small-scale applications such as lighting and air conditioning.

Input Voltage	Output Type	Amps	No. of Inputs	No. of Outputs	W	H	D	Mfr. Model	Item No.
Expandable									
100 to 240V AC	Relay	4.5 A	6	4	2.75 in	3.54 in	2.2 in	ZEN-10C1AR-A-V2	**2REN9**
100 to 240V AC	Relay	4.5 A	12	8	4.82 in	3.54 in	2.2 in	ZEN-20C1AR-A-V2	**2REP7**
12 to 24V AC/DC	Relay	30.0 A	6	4	2.75 in	3.54 in	2.2 in	ZEN-10C1DR-D-V2	**2REP1**
12 to 24V AC/DC	Transistor	30.0 A	6	4	2.75 in	3.54 in	2.2 in	ZEN-10C1DT-D-V2	**2REP2**
12 to 24V AC/DC	Transistor	30.0 A	12	8	4.82 in	3.54 in	2.2 in	ZEN-20C1DT-D-V2	**2REP8**
Nonexpandable									
100 to 240V AC	Relay	4.5 A	6	4	2.75 in	3.54 in	2.2 in	ZEN-10C3AR-A-V2	**2REP3**
100 to 240V AC	Relay	4.5 A	12	8	4.82 in	3.54 in	2.2 in	ZEN-20C3AR-A-V2	**2REP9**
12 to 24V AC/DC	Relay	30.0 A	6	4	2.75 in	3.54 in	2.2 in	ZEN-10C3DR-D-V2	**2REP4**
12 to 24V AC/DC	Relay	30.0 A	12	8	4.82 in	3.54 in	2.2 in	ZEN-20C3DR-D-V2	**2RER1**
With RS-485 Communication									
100 to 240V AC	Relay	4.5 A	6	3	2.75 in	3.54 in	2.2 in	ZEN-10C4AR-A-V2	**2REP5**
12 to 24V AC/DC	Relay	30.0 A	6	3	2.75 in	3.54 in	2.2 in	ZEN-10C4DR-D-V2	**2REP6**
Extension Modules									
100-240VAC	Relay	—	4	4	—	—	—	ZEN-8E1AR	**2RER2**
12-24VDC	Relay	—	4	4	—	—	—	ZEN-8E1DR	**2RER3**
12-24VDC	Transistor	—	4	4	—	—	—	ZEN-8E1DT	**2RER4**
Accessories									
Support Software								ZEN-SOFT01V4	**2RER5**
Connecting Cable								ZEN-CIF01	**2RER6**
Memory Cassette								ZEN-ME01	**2RER7**
Battery Unit								ZEN-BAT01	**2RER8**

CUB4 Series
13C874

CUB5 Series
13C888

CUB Series Miniature Panel Meters

- NEMA 4X/IP65 sealed front bezel

Backlight units require external power, typically 12/24VDC.

CUB4 Series have 0.46"H (12mm) digits, a large display, and a NEMA 4X front panel with a faster count rate and push buttons that can be displayed.

CUB7 Series have 0.35"H (9mm) digits with a NEMA 4X front panel, and faster count rate and push buttons that can be displayed.

CUB5 Series have 0.46"H (12mm) digits, and are designed to include option cards for setpoints and communications.

Description	No. of Digits	Item No.
Counter, CUB4 Series		
Electronic Counter, Backlit Red LCD	6	**13C874**
Electronic Counter, Backlit Red LCD	8	**13C877**
Electronic Counter, Backlit Yellow-Green LCD	6	**13C873**
Electronic Counter, Backlit Yellow-Green LCD	8	**13C876**
Electronic Counter, LCD	6	**13C872**
Electronic Counter, LCD	8	**13C875**
Counter, Fit Standard 1/32 DIN Panel Cutout, Internal Lithium Battery Powered, CUB7 Series		
28VDC Max. Input, 10 KHz, Backlit Red LCD	8	**13C902**
28VDC Max. Input, 10 KHz, Backlit Yellow-Green LCD	8	**13C901**
28VDC Max. Input, 10 KHz, LCD	8	**13C903**
50 to 250VAC/DC Input, 1 Hz, Backlit Red LCD	8	**13C905**
50 to 250VAC/DC Input, 1 Hz, Backlit Yellow-Green LCD	8	**13C904**
50 to 250VAC/DC Input, 1 Hz, LCD	8	**13C906**
Counter/Rate, CUB5 Series		
20 KHz Input, Backlit Red/Green LCD	8	**13C881**
20 KHz Input, LCD	8	**13C888**
DC Current, CUB4 Series		
0 to 200mADC Input, Backlit Red LCD	3½	**13C871**
0 to 200mADC Input, Backlit Yellow-Green LCD	3½	**13C870**
0 to 200mADC Input, LCD	3½	**13C869**
DC Current, CUB5 Series		
0 to 200mADC Input, Backlit Red/Green LCD	5	**13C884**
0 to 200mADC Input, LCD	5	**13C885**
DC Process, CUB5 Series		
0 to 10VDC, 0 to 50mADC Input, Backlit Red/Green LCD	5	**13C886**
0 to 10VDC, 0 to 50mADC Input, LCD	5	**13C887**
DC Voltage, CUB4 Series		
0 to 200V DC Input, Backlit Red LCD	3½	**13C880**
0 to 200V DC Input, Backlit Yellow-Green LCD	3½	**13C879**
0 to 200V DC Input, LCD	3½	**13C878**
DC Voltage, CUB5 Series		
0 to 200V DC Input, Backlit Red/Green LCD	5	**13C898**
0 to 200V DC Input, LCD	5	**13C899**
Temperature, CUB5 Series		
RTD Input, Backlit Red/Green LCD	5	**13C890**
RTD Input, LCD	5	**13C891**
Thermocouple Input, Backlit Red/Green LCD	5	**13C894**
Thermocouple Input, LCD	5	**13C895**
Timer, CUB5 Series		
Preset Timer and Cycle Counter, Backlit Red/Green LCD	7	**13C893**
Preset Timer and Cycle Counter, LCD	7	**13C896**
Timer, Fit Standard 1/32 DIN Cutout, Internal Lithium Battery Powered, CUB7 Series		
28VDC Max. Programmable Input, Times on High Input, Backlit Red LCD	8	**13C922**
28VDC Max. Programmable Input, Times on High Input, Backlit Yellow-Green LCD	8	**13C920**
28VDC Max. Programmable Input, Times on High Input, LCD	8	**13C924**
28VDC Max. Programmable Input, Times on Low Input, Backlit Red LCD	8	**13C921**
28VDC Max. Programmable Input, Times on Low Input, Backlit Yellow-Green LCD	8	**13C919**
28VDC Max. Programmable Input, Times on Low Input, LCD	8	**13C923**
50 to 250VAC/DC Programmable Input, Backlit Red LCD	8	**13C926**
50 to 250VAC/DC Programmable Input, Backlit Yellow-Green LCD	8	**13C925**
50 to 250VAC/DC Programmable Input, LCD	8	**13C927**
Accessories for Use with CUB4, CUB5 Panel Meters		
Plastic Enclosure For Single Units		**13C944**
Accessories for Use with CUB5 Panel Meters		
CUB5 or MLPS DIN Rail Base Mount Kit		**12N114**
CUB5 Single Relay Option Card, Form C Output		**13C889**
Dual Sinking Open Collector Output Card, NPN Output		**13C892**
Micro Line/Sensor Power Supply +12VDC, 12V DC Output		**13C978**
Micro Line/Sensor Power Supply +24VDC, 24V DC Output		**13C979**
Plastic Enclsoure for Units with an MLPS1 attached		**13C945**
RS232 Serial Communication Card, RS232 Cards Output		**13C883**
RS485 Serial Communication Card, RS485 Cards Output		**13C882**
USB Serial Communication Card, USB Output		**13C897**

13D034

13D001

Digital Panel Meters

- NEMA 4X, IP65 rated

⅛ DIN cutout with LED display. 4.1" deep; screw terminal connection.

Power Req.	Input Range	Display Digits	Excitation	Mfr. Model	Item No.
AC Current					
115/230V AC	0 to 2AAC	3½	—	PAXLIA00	**13D032**
115/230V AC	0 to 5AAC	3½	—	PAXLIT00	**13D034**
AC Voltage					
115/230V AC	0 to 300V AC	3½	—	PAXLVA00	**13D040**
115/230V AC	0 to 600V AC	3	—	PAXLHV00	**13D031**
AC Voltage/AC Current					
85 to 250V AC	0-300V AC/0-5AAC	5	—	PAXH0000	**13D022**
Clock/Timer					
85 to 250V AC	Programmable	6	12V DC	PAXCK000	**13D016**
18 to 36V DC/24V AC	Programmable	6	12V DC	PAXCK010	**13D017**
DC Current					
115/230V AC	0 to 2ADC	3½	—	PAXLID00	**13D033**
DC Voltage					
85 to 250V AC	+/-25V DC	3½	24V DC	PAXLPV00	**13D036**
115/230V AC	0 to 300V DC	3½	—	PAXLVD00	**13D041**
DC Voltage/DC Current					
85 to 250V AC	+/-300V DC/ +/-2ADC	5	24V DC	PAXD0000	**13D018**
18 to 36V DC/24V AC	+/-300V DC/ +/-2ADC	5	24V DC	PAXD0010	**13D019**
50 to 250V AC/22 to 250V DC	0-200V DC/0-200mADC	5	24V DC	PAXLA0U0	**13D025**
Electronic Counter					
11 to 14V DC, 115/230V AC	25,000	8	9 to 17V DC	PAXLC800	**13D028**
85 to 250V AC	34,000	6	12V DC	PAXC0020	**13D001**
18 to 36V DC/24V AC	34,000	6	12V DC	PAXC0030	**13D002**
Electronic Counter Rate Meter					
50 to 250V AC/22 to 250V DC	25,000	6	24V DC	PAXLCRU0	**13D030**
85 to 250V AC	34,000	6	12V DC	PAXI0020	**13D023**
18 to 36V DC/24V AC	34,000	6	12V DC	PAXI0030	**13D024**
Process					
85 to 250V AC	(2) +/-10V DC or (2) +/-20mADC	5	18V DC	PAXDP000	**13D020**
18 to 36V DC/24V AC	(2) +/-10V DC or (2) +/-20mADC	5	18V DC	PAXDP010	**13D021**
85 to 250V AC	0 to 50mADC	3½	24V DC	PAXLCL00	**13D029**
85 to 250V AC	0-10V DC/0-20mADC	5	24V DC	PAXP0000	**13D042**
18 to 36V DC/24V AC	0-10V DC/0-20mADC	5	24V DC	PAXP0010	**13D043**
Process Time					
115/230V AC/10 to 16V DC	25 KHz	6	9 to 17V DC	PAXLPT00	**13D035**
Rate					
115/230V AC/10 to 16V DC	25 KHz	6	9 to 17V DC	PAXLR000	**13D037**
85 to 250V AC	34 KHz	6	12V DC	PAXR0020	**13D044**
18 to 36V DC/24V AC	34 KHz	6	12V DC	PAXR0030	**13D045**
Strain Gauge					
85 to 250V AC	+/-2V DC	3½	5V DC / 10V DC	PAXLSG00	**13D038**
85 to 250V AC	0-240mV DC	5	5V DC / 10V DC	PAXS0000	**13D046**
18 to 36V DC/24V AC	0-240mV DC	5	5V DC / 10V DC	PAXS0010	**13D047**
Temperature					
50 to 250V AC/22 to 250V DC	TC/RTD	5	24V DC	PAXLT0U0	**13D039**
85 to 250V AC	TC/RTD	5	—	PAXT0000	**13D048**
18 to 36V DC/24V AC	TC/RTD	5	—	PAXT0010	**13D049**
Timer					
85 to 250V AC	Programmable	6	12V DC	PAXTM000	**13D050**
18 to 36V DC/24V AC	Programmable	6	12V DC	PAXTM010	**13D051**
Universal Digital Input					
50-250V AC/22-250V DC	Universal	6/9	18V DC	PAX2D000	**18G530**
Universal Process					
40-250V AC/21.6-250V DC	Universal	6/9	18V DC	PAX2A000	**18G529**
Universal Strain Gauge					
50-250V AC/22-250V DC	Universal	6/9	18V DC	PAX2S000	**18G531**
PAX Meter Accessories					
DIN Rail Pax Base Mount Kit				BMK90000	**12N115**
Fiberglass Enclsoure for 1 Pax Unit				ENC5B000	**13C942**
Fiberglass Enclosure for 2 Pax Units				ENC5C000	**13C943**
RS485 Serial Communications Output Card with Terminal Block, RS485 Output				PAXCDC10	**13D003**
Extended RS485 Serial Communications Output Card with Dual RJ11 Connector, RS485 Output				PAXCDC1C	**13D004**
RS232 Serial Communications Output Card with Terminal Block, RS232 Output				PAXCDC20	**13D005**
Extended RS232 Serial Communications Output Card with 9 Pin D Connector, RS232 Output				PAXCDC2C	**13D006**
PAXCDC DeviceNet Output Option Card, DeviceNet Output				PAXCDC30	**13D007**
PAXCDC MODBUS Output Option Card, RS485 Modbus Output				PAXCDC40	**13D008**
PAXCDC MODBUS Output Option Card with RJ11 Connector, RS485 Modbus Output				PAXCDC4C	**13D009**
PAXCDC PROFIBUS-DP Communications Card, Profibus Output				PAXCDC50	**13D010**
PAXCDL Analog Output Plug-In Option Card, 0-20mA/0-10V Output				PAXCDL10	**13D011**
PAXCDS Quad Relay Output Plug-In Option Card, (2) Form C Relay Output				PAXCDS10	**13D012**
PAXCDS Dual Relay Output Plug-In Option Card, (4) Form A Relay Output				PAXCDS20	**13D013**
PAXCDS Quad Sinking Open Collector Output Card, (4) NPN Output				PAXCDS30	**13D014**
PAXCDS Quad Sourcing Open Collector Output Card, (4) PNP Output				PAXCDS40	**13D015**
Label Kit for PAX Meters 189 labels				PAXLBK10	**13D026**
Label Kit for PAX Lite Analog Meters				PAXLBK30	**13D027**
PAX USB Programming Option Card, USB Output				PAXUSB00	**13D052**

793J61

793J72

793J83

Large Display Panel Meters

red lion

- NEMA 4X/IP65 rated

Power required; bracket mounting.

Connector Type	Power Req.	No. of Digits	Style	Display	Mfr. Model	Item No.
Counter						
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	4	—	Red LED	LD200400	**793JF9**
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	4	—	Red LED	LD400400	**793JG0**
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	6	—	Red LED	LD400600	**793JG5**
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	6	—	Red LED	LD4006P0	**793JG6**
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	6	—	Red LED	LD200600	**793JG7**
Plug-In Terminal Block	21.6 to 250 V DC, 50 to 250 V AC	6	—	Red LED	LD2006P0	**793JH1**
Digital Panel Meters						
Internal Removable Terminal	21.6 to 250 V DC, 50 to 250 V AC	—	LD	Red LED	LD4T06P0	**793J61**
Internal Removable Terminal	21.6 to 250 V DC, 50 to 250 V AC	—	LDA	Red LED	LD2A05P0	**793J72**
Internal Removable Terminal	21.6 to 250 V DC, 50 to 250 V AC	—	LDA	Red LED	LD4A05P0	**793J83**
Internal Removable Terminal	21.6 to 250 V DC, 50 to 250 V AC	—	LD	Red LED	LD2T06P0	**793J95**

E5 Series
2RET4

Encoder
3KTD2

EATON

Electronic Totalizers and Count Controls

Panel mounted. CE Certified. AC-supplied units are UL and C-UL Recognized.

E5 Series—IP65 front panel for use in moist environments. NPN or PNP inputs accept almost any 3-wire DC sensor. Totalizers have rear screw terminal connections. 2MRU6 accepts direct AC/DC count input.

Encoders—Quadrature output signal provides extremely accurate position indication, ensuring that count is correct regardless of which direction the shaft is rotating. ABEC 3 double-sealed ball bearings keep foreign matter out. Housing is sealed against dust, oil, vapor, and moisture.

Description	Input Voltage	No. of Digits	Max. Counts per Sec.	Output Rating		L	W	D	Mfr. Model	Item No.
E5 Series										
Counter, 1/16 DIN, 2 Presets	90 to 260V AC	6	55,000	3A @ 110V DC, 3A @ 250V AC	Multifunction Counters	1.89 in	1.89 in	3.58 in	E5-648-C2421	**10D289**
Counter, 1/16 DIN, 2 Presets	10 to 30V DC	6	55,000	3A @ 110V DC, 3A @ 250V AC	Multifunction Counters	1.89 in	1.89 in	3.58 in	E5-648-C2422	**10D290**
Counter, 1/32 DIN, Multifunction	10 to 30V DC	6	20,000	—	Multifunction Counters	1.89 in	0.94 in	2.32 in	E5-424-E0402	**2RET8**
Counter, 1/8 DIN, Multifunction	90 to 260V AC	6	60,000	24V DC	Multifunction Counters	3.78 in	1.89 in	3.25 in	E5-496-E0401	**2REU1**
Counter, 1/8 DIN, Multifunction	10 to 30V DC	6	60,000	—	Multifunction Counters	3.78 in	1.89 in	3.25 in	E5-496-E0402	**2REU2**
Digital Panel Meter, Electronic	10-30VDC	5	—	—	Digital Panel Meters	1.89"	0.94"	2.32 in	E5-324-E0402	**2RET9**
Totalizer, 1/32 DIN	4 to 30V DC	8	12,000	—	Multifunction Counters	0.94 in	1.89 in	1.88 in	E5-024-C0400	**2MRU1**
Totalizer, 1/32 DIN	10 to 260V DC	8	12,000	—	Multifunction Counters	0.94 in	1.89 in	1.88 in	E5-024-C0408	**2MRU6**
Totalizer, 1/32 DIN	4 to 30V DC	8	12,000	—	Multifunction Counters	1.89 in	0.94 in	1.88 in	E5-024-C0410	**2RET4**
Totalizer, 1/32 DIN, Single Function	10 to 30V DC	6	20,000	—	Multifunction Counters	1.89 in	0.94 in	2.32 in	E5-024-E0402	**2RET7**
Encoders										
12" Circum. Measuring Wheel, Aluminum w/Rubber Rim				—	Encoder Accessories	—	—	—	20154300	**10E074**
12" Circum. Measuring Wheel, Aluminum w/ Urethane Rim				—	Encoder Accessories	—	—	—	20144303	**3KTD4**
Aluminum Encoder Bracket				—	Encoder Accessories	—	—	—	40460402	**3KTD5**
Quadrature Encoder, 120 Pulses/Rev., 6000 rpm Max., 5 to 28V DC				—	Shaft Encoder Transducers	—	—	—	38151120	**3KTD3**
Quadrature Encoder, 60 Pulses/Rev., 6000 rpm Max., 5 to 28V DC				—	Shaft Encoder Transducers	—	—	—	38151060	**3KTD2**

5FYG0

Preset Digital Counter and Counter/Tachometer

OMRON®

- Reset: External/manual/automatic
- Input signal: No voltage/voltage switchable
- PNP/NPN selectable input

These high-speed response, electronic preset units have 6 digits and 11 (5FY60) or 12 (5FYG1) operating modes. Enhanced features allow configurations as a 1-stage or 2-stage total, batch, or dual counter. (5FYG1 can also be used as a tachometer.) Display color is programmable to alert change in output status. All parameters can be set via front membrane keys or DIP switches. Units provide 12VDC output for external sensors. Negative transmissive LCD and EEPROM memory backup, sustained and 1-shot outputs. Key protect function. 1/16 DIN panel mount (includes adapter). NEMA 4/IP66 front panel. 1⅞" square x 4³⁄₁₆" long. UL Listed and CE Certified.

Item	Switch Output Rating	Input Voltage	Prescaling Range	Mfr. Model	Item No.
Digital Counter	SPDT, 3A 250V AC/30V DC Resistive	100 to 240V AC	0.001 to 9.999	H7CX-A-N AC100-240	**5FYG0**
Digital Counter/Tachometer	SPDT, 3A 250V AC/30V DC Resistive	24V AC/12 to 24V DC	0.001 to 9.999	H7CXAWD1NDC1224AC24	**5FYG1**

Hand-Held Hand Tally 6X164

Bench Top Hand Tally 1A189

Mechanically Operated, Lever Arm 6X596

Mechanically Operated, Rotating 2REU5

Electromechanically Operated 20XG41

Electronically Operated 2PAT7

Electronically Operated 20XG38

Counters

Input Type	No. of Digits	Mounting	Max. Counts per Sec.	Reset Type	H	W	D	Brand	Mfr. Model	Item No.
Mechanical Tally Counter										
Hand Operated	4	Hand Held	—	Knob	1.75 in	1.38 in	—	Dayton	6X164	**6X164**
Hand Operated	4	Hand Held	—	Knob	1.81 in	1.55 in	1.81 in	ENM	M45	**2PAU4**
Hand Operated	4	Bench Top	—	Knob	2.66 in	1.14 in	—	Dayton	1A189	**1A189**
Hand Operated	4	Bench Top	—	Knob	2.76 in	1.55 in	1.81 in	ENM	M4501NF	**2PAU5**
Hand Operated	4	Bench Top	—	Knob/Side	2.76 in	2.68 in	2.36 in	ENM	M4502	**5AAK7** *
Hand Operated	4	Bench Top	—	Knob/Side	2.76 in	6.26 in	2.36 in	ENM	M4505	**5AAL0** †
Hand Operated	4	Hand Held	—	Knob	1.75 in	1.125 in	—	Control Company	3125	**9PX59**
Digital Tally Counter										
Hand Operated	5	Hand Held	—	Push Button	1.875 in	0.5 in	0.5 in	Control Company	3129	**9GGF0**
Mechanical Counter										
Ratchet with Stop, Right Hand, Top Coming	5	Base	8.3	Knob	2.25 in	2.75 in	1.73 in	ENM	M3CA50A	**2PAU1**
Ratchet with Stop, Right Hand, Top Coming	6	Base	8.3	None	2.25 in	2.19 in	1.69 in	ENM	M2BA60A	**2PAV3**
Lever Arm, Right Hand, Top Coming	5	Base	16	Manual	1.44 in	2.53 in	1.25 in	Dayton	6X157	**6X157**
Lever Arm, Right Hand, Top Coming	5	Base	16	Manual	1.44 in	3.13 in	1.38 in	Dayton	6X158	**6X158**
Lever Arm, Right Hand, Top Coming	6	Base	16	Manual	1.81 in	5.57 in	2.15 in	Dayton	6X596	**6X596**
Rotary Shaft, Clockwise, Front and Rear, Worm Drive	5	Base	13	Wing Nut	2.0 in	3.69 in	2.0 in	Eaton	5-D-6-1-CL	**2REU5**
Rotary Shaft, Counter Clockwise, Front and Rear, Worm Drive	5	Base	13	Wing Nut	2.0 in	3.69 in	2.0 in	Eaton	5-D-6-1-AC	**2REU6**
Rotary Shaft, Clockwise, Right Hand, Spur Drive	5	Base	13	Wing Nut	1.72 in	3.8 in	1.62 in	Eaton	5-D-7-1-R-CL	**2REU7**
Rotary Shaft, Counter Clockwise, Right Hand, Spur Drive	5	Base	13	Wing Nut	1.72 in	3.8 in	1.62 in	Eaton	5-D-7-1-R-AC	**2REU8**
Electromechanical Counter										
24V DC	6	Base	10	Non Resettable	0.9 in	1.36 in	2.18 in	Dayton	32UJ97	**32UJ97**
115V AC	4	Panel	10	Push Button	1.8 in	1.8 in	2.99 in	Dayton	6X594	**6X594**
115V AC	6	Panel	15	Push Button	1.97 in	3.54 in	3.39 in	Dayton	32UJ95	**32UJ95**
115V AC	6	Base	10	Non Resettable	0.9 in	1.36 in	2.18 in	Dayton	32UJ96	**32UJ96**
115V AC	6	Base	10	Non Resettable	2.38 in	1.63 in	2.37 in	Dayton	32UJ98	**32UJ98**
24V DC	6	Panel	10	Non Resettable	1 in	1.45 in	1.4 in	ENM	E6B65GM36	**20XG40**
24V DC	8	Base	25	Non Resettable	2.34 in	1.5 in	1.6 in	ENM	E8B85GN	**20XG36**
24V AC	6	Base	10	Non Resettable	1 in	1.45 in	1.4 in	ENM	E6B64GN	**2PAT1**
115V AC	5	Panel	10	Wheel	1.19 in	2.75 in	2.25 in	ENM	P3B52A	**2PAW3**
115V AC	6	Panel	10	Non Resettable	1 in	1.45 in	1.4 in	ENM	E6B62GM36	**20XG41**
115V AC	6	Base	10	Non Resettable	1 in	1.45 in	1.4 in	ENM	E6B62GN	**2PAV7**
115V AC	8	Base	25	Non Resettable	2.34 in	1.5 in	1.6 in	ENM	E8B82GN	**20XG37**
Electronic Counter										
4.5 to 28V DC	6	2-Hole Rectangular	50	Remote Signal	0.94 in	1.42 in	0.82 in	ENM	C1121BB	**2PAT7**
4.5 to 28V DC	6	Rectangular- Snap-In	50	Remote Signal	2 in	1.42 in	0.82 in	ENM	C1141BB	**2PAT8**
4.5 to 16V DC	6	PCB	50	Remote Signal	0.73 in	1.3 in	1.58 in	ENM	C1101BB	**20XG35**
4.5 to 60V AC/DC (50/60 Hz)	6	Panel	50	None	2.81 in	—	1.35 in	ENM	C44B65B	**20XG38**
115 to 275V AC/DC (50/60 Hz)	6	Panel	50	None	2.81 in	—	1.35 in	ENM	C44B69B	**20XG39**
10 to 40V DC	6	Panel	20	Remote Signal	2.31 in	—	1.51 in	ENM	PC1210F0	**49Y067**
85 to 265V AC/90 to 360V DC	6	Panel	20	Remote Signal	2.31 in	—	1.51 in	ENM	PC1210G0	**49Y068**
265V AC	6	Panel	20	Remote Signal	2.31"	—	1.51 in	ENM	T39FB48	**20XG42**
Hour Meter/Counter										
4.5 to 28V DC	6	Round	100	Electrical		—	2 in	ENM	T39AC	**2PAX8**
85 to 265V AC/90 to 360V DC	6	Panel	20	Front Panel Push Button or Remote	2.58"	—	1.51 in	ENM	T39FC48	**20JN05**

** 2-gang. † 5-gang.*

C48 Counters

red lion

Units include bidirectional counting, up/down control, programmable user inputs, and front-panel function key. Status indicators for outputs.

Fits	Output	Power Req.	No. of Digits	Mfr. Model	Item No.
2 LINE BACKLIGHT LCD					
1⁄16 DIN	PNP Open Collector	—	6	C48CS104	**793JJ5**
1⁄16 DIN	PNP Open Collector	—	6	C48CS114	**793JJ6**
2 LINE RED/GREEN BACKLIGHT LCD					
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	NPN Open Collector, Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CS103	**793JF7**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	NPN Open Collector, Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CS003	**793JG1**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(2) Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CD102	**793JG2**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(1) NPN Open Collector, (2) Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CB103	**793JH3**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(2) Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CD107	**793JH4**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	NPN Open Collector, Relay	18 to 36 V DC, 24 V AC	6	C48CS013	**793JH5**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	NPN Open Collector, Relay	18 to 36 V DC, 24 V AC	6	C48CS113	**793JH7**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(1) NPN Open Collector, (2) Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CB108	**793JH9**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(2) Relay	11 to 14 V DC, 85 to 250 V AC	6	C48CD002	**793JJ0**
1⁄16 DIN; 1.772 in x 1.772 in Panel Cutout	(2) NPN Open Collector	11 to 14 V DC, 85 to 250 V AC	6	C48CD005	**793JJ2**
2 LINE REFLECTIVE LCD					
1⁄16 DIN	PNP Open Collector	—	6	C48CS004	**793JJ3**
1⁄16 DIN	PNP Open Collector	—	6	C48CS014	**793JJ7**
BACKLIT					
—	PNP Open Collector, Relay	—	—	C48CB104	**793JJ4**

793JG2

Electrically Operated Counters

Dayton · REDINGTON

- High-impact styrene housing
- White digits; black background

Sturdy bases enable fast, convenient mounting. 6X159 has a die-cast frame. 6X160 is a universal replacement, panel, or base mount. 1A124 is front or rear panel mount. CE Certified. 6X159 to 6X161, and 1A124 are UL Recognized; 6X159 to 6X161 are also CSA Certified.

Reset Type	Input Signal	No. of Digits	Mounting	Max. Counts per Sec.	Min. On/Off Pulse	Mfr. Model	Item No.
Dayton							
Non Resettable	24V DC	6	Rear	10	50 / 50 msec	1A788	**1A788**
Non Resettable	24V AC	6	Rear	10	50 / 50 msec	1A789	**1A789**
Non Resettable	115V AC	6	Rear	10	50 / 50 msec	1A188	**1A188**
Push Button	115V AC	6	Panel	10	50 / 50 msec	1A124	**1A124**
Trumeter							
Knob	115V AC	6	Base	16.6	30 / 30 msec	2-1006	**6X159**
Knob	115V AC	6	Panel	16.6	30 / 30 msec	P2-1006-115AC	**6X160**
Key	115V AC	6	Panel	16.6	30 / 30 msec	P32-1026-115AC	**6X161**

Redington Hour Meters and Counters

REDINGTON

Description	No. of Digits	Bezel Face Size	10 to 80V DC Item No.	120 to 240V AC Item No.	90 - 264V AC Item No.
Electromechanical Hour Meters, 722/732 Series, 0.93H x 1.43W x 2.17"D					
2-Hole Rectangular	6	2.05 in x 1.03 in	**3AE15**	**3AB98**	—
Flush Rectangular	6	1.60 in x 1.10 in	**3AE13**	**3AB99**	—
Flush Round	6	2.24 in dia	**3AE14**	—	**3AE10**
3-Hole Round	6	2.80 in dia	**3AE12**	**3AE11**	—
Round Cup Mount S.S. Bezel	6	2.50 in dia	**2PPU5**	—	—
Square Panel Mount	6	1.89 in x 1.89 in	**2PPU4**	**2PPU3**	—
Round Stirrup Mount S.S. Bezel	6	2.50 in dia	**2PPU6**	—	—

Description	No. of Digits	Dry Contact Item No.	3 to 30V DC Item No.	10 to 300V DC, 20 to 300V AC Item No.
LCD Electronic Counters, 63 Series, Panel Cutout: 1.79W x 0.89"H, 2.0W x 1.10"H Flange				
Counter, Dual Range, 40/500 Hz, Resettable	8	**2PPW3**	**2PPW4**	**2PPW5**
LCD Hour Meters, 63 Series, Panel Cutout: 1.79W x 0.89"H, 2.0W x 1.10"H Flange				
Hour Meter, Hours and Tenths, Nonresettable	8	**2PPW6**	**2PPX7**	**2PPW7**
Hour Meter, Hours and Tenths, Remote Reset	8	**4XKH9**	**4XKJ1**	—

For Use With	Item No.
Gaskets	
2PPW3, 2PPW4, 2PPW5, 2PPW6, 2PPW7, 2PPX2, 2PPX3, 2PPX4, 2PPX7, 4XKH9, 4XKJ1	**4ETE7**
2PPU8, 2PPV6	**4ETF3**
3AE11, 3AE12	**4ETF5**
3AB99, 3AE13	**4ETF6**
3AB98, 3AE15	**4ETF8**

Input Type	No. of Digits	Mfr. Model	2-Hole Rectangular 1.10" Flange Item No.	3-Hole Round 2.87" Flange Item No.	Mini Flush Rectangular 1.60" Flange Item No.	SAE Flush Round 2.21" Flange Item No.	Snap In 1.10" Flange Item No.
LCD Hour Meters, 3410 Series, 0.95H x 1.45W x 0.75"D, ¼" Spade Terminals							
10 to 300 V DC or 20 to 300 V AC	8	3410	**2PPV5**	**2PPV6**	**2PPV7**	**2PPV8**	**2PPW1**
Electronic Counters, 3400 Series, 0.93H x 1.3W x 0.75"D, ¼" Spade Terminals							
10 to 300V DC, 20 to 300V AC (50/60 Hz)	8	3400	**2PPU7**	**2PPU8**	—	—	—

ENM

Hour Meters

2PAN6 · 2PAT3 · 2PAN9 · 2PAR5 · 2PAR7 · 2PAT2 · 20JN03 · 2PAZ6 · 2PAU9 · 2PAX6

Most display hours and 10ths. 2PAT2 displays hours and minutes. 2PAV1 and 2PAZ6 display hours and 10ths. 2PAT3 and 2PAT4 display hours and 100ths.

Input Type	Operating Voltage	Reset Type	Bezel Face Size	Bezel Face Type	No. of Digits	Mounting Method	Fits Panel Cut Out	Mfr. Model	Item No.
Electromechanical									
Electrical	10 to 80V DC	Non Resettable	2.75 in dia	Flange Mount	6	3-Screw	2.00 in dia	T40B45	**2PAN7**
Electrical	10 to 80V DC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T40A45	**2PAN6**
Electrical	10 to 80V DC	Non Resettable	1.77 in x 1.25 in	Flange Mount	6	Retainer	1.45 in x 0.95 in	T41D45	**2PAR3**
Electrical	10 to 80V DC	Non Resettable	2.12 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T41E45	**2PAR4**
Electrical	10 to 80V DC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T40A4507	**2PAR8**
Electrical	24V AC	—	2.80 in dia	Flange Mount	6	3-Screw	2.00 in dia	T50B4	**2PAY7**
Electrical	24V AC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T50A4	**2PAY5**
Electrical	24V AC	—	1.77 in x 1.25 in	Flush Mount	6	Clip	1.45 in x 0.95 in	T51D4	**2PAY9**
Electrical	24V AC	Non Resettable	2.13 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T51E4	**2PAZ2**
Electrical	24V AC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T50A479	**2PAZ4**
Electrical	115/230V AC	Non Resettable	2.80 in dia	Flange Mount	6	3-Screw	2.00 in dia	T50B52	**2PAR2**
Electrical	120 to 240V AC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T50A52	**2PAR1**
Electrical	120V AC	Non Resettable	2.70 in dia	Flange Mount	6	3-Screw	2.22 in dia	T55B2A	**2PAT3**
Electrical	120V AC	Manual	2.70 in dia	Flange Mount	6	3-Screw	2.22 in dia	T55A2A	**2PAT4**
Electrical	120V AC	Manual	3.50 in dia	Flange Mount	6	3-Screw	2.22 in dia	T55A2B	**6LVT2**
Electrical	240V AC	Non Resettable	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T50A5279	**2PAZ5**
Electrical	240V AC	—	2.13 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T51E52	**2PAN8**
Electrical	240V AC	Non Resettable	1.77 in x 1.25 in	Flush Mount	6	Clip	1.45 in x 0.95 in	T51D52	**2PAN9**
LCD									
Electrical	5 to 28V DC	Non Resettable	2.13 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T1121BB	**2PAR5**
Electrical	5 to 28V DC	Non Resettable	1.72 in x 1.22 in	Flush Mount	6	Retainer	1.45 in x 0.95 in	T1141BB	**2PAR6**
Electrical	5 to 28V DC	Non Resettable	2.20 in dia	Flush Mount	6	Retainer	2.00 in dia	T1161BB	**2PAR7**
Electrical	10 to 240V AC, 5 to 110V DC	Front Panel Push Button or Remote	1.88 in x 0.94 in	Flush Mount	7	Retainer	1.77 in x 0.89 in	L6C	**2PAT2**
Electrical	120V AC	Non Resettable	2.13 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T1120EB	**2PAW9**
Electrical	120V AC	Non Resettable	1.72 in x 1.22 in	Flush Mount	6	Retainer	1.45 in x 0.95 in	T1140EB	**2PAX2**
Electrical	120V AC	Non Resettable	2.20 in dia	Flush Mount	6	Retainer	2.00 in dia	T1160EB	**2PAX4**
Electrical	240V AC	Non Resettable	2.20 in dia	Flush Mount	6	Retainer	2.00 in dia	T1160FB	**2PAX5**
Electrical	—	Non Resettable	2.80 in dia	Flange Mount	6	3-Screw	2.00 in dia	TB44B69A	**20JN03**
Electrical	—	Non Resettable	2.80 in dia	Flange Mount	6	3-Screw	2.00 in dia	TB44B65A	**20JN04**
Inductive	—	Manual	2.89 in x 1.82 in	Flange Mount	5	2-Screw		MT101R	**2PAZ6**
Vibration	—	Remote	2.13 in x 1.25 in	Flange Mount	6	2-Screw	1.45 in x 0.95 in	T54C1	**2PAU8**
Vibration	—	Non Resettable	2.13 in x 1.40 in	Panel Mount	6	2-Screw	1.45 in x 0.95 in	T54D1	**2PAU9**
LCD, Dual Display									
Electrical	8 to 32V DC	Remote	2.33 in dia	Flush Mount	6	Retainer	2.00 in dia	T39AA	**2PAX6**
LCD, Hourmeter/Tachometer									
Inductive	—	Non Resettable	2.13 in x 1.40 in	Surface Mount	5	2-Screw		PT15E2	**2PAV1**

Temperature Controllers

Designed to monitor and control heating and/or cooling process applications. Thermocouple input, no calibration required. Hardware included for panel mounting.

E5C2 Series—Manual dial setting; Type J thermocouple input. 8-pin octal relay socket mountable; order 5X852 on page 216.

E5CS Series—Easy setting through internal DIP and rotary switches. On-demand auto-tune. Multiple input. Deviation indicator for easy monitoring. 8-mode alarm output and sensor error detection. Input shift function adjusts display to reflect known sensor offsets. CE Certified.

4A482

1BEF8

DIN Size	Input Voltage	Switch Function	Output	Control Mode*	D	Mfr. Model	Item No.
E5C2 Series							
1⁄16	100 to 240V AC	SPDT	(1) 3A Relay	On/Off	4 in	E5C2R20JWAC10024032392	**4A481**
1⁄16	100 to 240V AC	SPDT	(1) 3A Relay	PD	4 in	E5C2R40JWAC10024032392	**4A482**
E5CS Series							
1⁄16	100 to 240V AC	SPST NO	(1) Relay	On/Off or PID	3.31 in	E5CSVR1TF AC100-240	**1BEF8**
1⁄16	100 to 240V AC	SPST NO	12V DC	On/Off or PID	3.31 in	E5CSVQ1TF AC100-240	**1BEH2**

PID=Proportional-integral-derivative. PD=Proportional-derivative.

Analog Temperature Controllers

Proportioning controls feature dial/potentiometer setpoint. 5A output relay. 20-sec. cycle time. Temp. range: 50° to 850°F. UL Recognized, CSA and CE Certified.

3FXJ3

3FXJ7

DIN Size	Description/ Special Features	Input Voltage	Output	D	J TYPE Mfr. Model	J TYPE Item No.	K TYPE Mfr. Model	K TYPE Item No.
1⁄16	Dial Setpoint	100 to 130V AC	(1) 5A Relay	3.75 in	TEC17112	**3FXJ3**	TEC17126	**3FXJ4**
1⁄4	Deviation Meter Display, Dial Setpoint	120/240V AC	(1) 5A Relay	2.56 in	TEC57201	**3FXJ5**	TEC57203	**3FXJ6**
1⁄4	Dial Setpoint, Single Red LED Digital Display	90 to 264V AC	(1) 5A Relay	2.56 in	TEC57401	**3FXJ7**	TEC57403	**3FXJ8**

Temperature Control Boxes

Include 6-ft. cord. All components are UL Listed or Recognized, CSA and CE Certified.

PCT Series—Feature pilot light and 15A straight-blade heater receptacle. For indoor use. Analog boxes have blue metal housing, mounting slots, and 4° typical hysteresis. Digital boxes have plastic housing, TEC-220 electronic temp. controller, and red illuminated On/Off rocker switch. 5FYL4 to 5FYL7 have Invensys-type mechanical thermostat with 4" bulb and 48" capillary.

PCM Series—NEMA 12 enclosure. Feature TEC-9100 electronic temp. control. 5FYN6 to 5FYN9 have 20A straight-blade heater receptacle and standard thermocouple jacks. 5FYP0 to 5FYP3 have internal blocks and can be used on single or 3 phase.

Analog Control Box

Digital Control Box

Control Mode	Amps	Temp. Range	Sensor Type	Output	Input Voltage	Mfr. Model	Item No.	Input Voltage	Mfr. Model	Item No.
Analog										
On/Off	15	60° to 250°F	Bulb	—	120V AC	PCT10001	**5FYL4**	240V AC	PCT10003	**5FYL6**
On/Off	15	150° to 550°F	Bulb	—	120V AC	PCT10002	**5FYL5**	240V AC	PCT10004	**5FYL7**
On/Off	15	32° to 1000°F	J	—	120V AC	PCT20001	**5FYL8**	240V AC	PCT20003	**5FYN0**
On/Off	15	32° to 1000°F	K	—	120V AC	PCT20002	**5FYL9**	240V AC	PCT20004	**5FYN1**
Digital										
PID	15	0° to 1200°F	J	(1) Relay	120V AC	PCT30001	**5FYN2**	240V AC	PCT30002	**5FYN3**
PID	15	0° to 2400°F	K	(1) Relay	120V AC	PCT30003	**5FYN4**	240V AC	PCT30004	**5FYN5**
PID	16	0° to 1200°F	J	(1) Relay	120V AC	PCM10001	**5FYN6**	240V AC	PCM10002	**5FYN7**
PID	16	0° to 2400°F	K	(1) Relay	120V AC	PCM10003	**5FYN8**	240V AC	PCM10004	**5FYN9**
PID	24	Dependent on Sensor Type	Universal	Contactor	240V AC	PCM10005	**5FYP0**	480V AC	PCM10006	**5FYP1**
PID	48	Dependent on Sensor Type	Universal	Contactor	240V AC	PCM10007	**5FYP2**	480V AC	PCM10008	**5FYP3**

Digital Temperature Controllers

Microcontroller-based controls with autotuning fuzzy logic PID are designed for industrial and commercial heating and cooling applications. Universal thermocouple or RTD programmable. 90 to 250VAC power input. NEMA 4X front.

Single Display

Dual Display

DIN Size	Output	D	Std.	Mfr. Model	Item No.
Single Red LED Digital Display					
1⁄32	(1) 4 to 20mA and (1) 2A Relay	4.37 in	UL,CSA,CE	TEC03030	**3FXK2**
1⁄32	(1) Solid State Relay Drive-5V DC and (1) 2A Relay	4.37 in	UL,CSA,CE	TEC03013	**3FXK1**
1⁄32	(2) 2A Relay	4.37 in	UL,CSA,CE	TEC03002	**3FXJ9**
1⁄16	(1) 4 to 20mA and (1) 2A Relay	3.75 in	UL,CSA,CE	TEC15023	**3FXK5**
1⁄16	(1) Solid State Relay Drive-5V DC and (1) 2A Relay	3.75 in	UL,CSA,CE	TEC15011	**3FXK4**
1⁄16	(2) 2A Relay	3.75 in	UL,CSA,CE	TEC15002	**3FXK3**
High Limit, Single Red LED Digital Display					
1⁄16	(1) 2A Relay	3.75 in	UL,CSA,CE,FM	TEC16001	**3FXK6**
Dual Red LED Digital Display					
1⁄16	(1) 2A Relay	4.96 in	UL,CSA,CE	TEC14044	**3FXK7**
1⁄16	(1) 4 to 20mA	4.96 in	UL,CSA,CE	TEC14092	**3FXK9**
1⁄16	(1) Solid State Relay Drive-5V DC	4.96 in	UL,CSA,CE	TEC14040	**3FXK8**
1⁄16	(2) 2A Relay	4.96 in	CE, CSA, UL	TEC18002	**5FYK7**
1⁄8	(1) 2A Relay	3.12 in	UL,CSA,CE	TEC34034	**3FXL1**
1⁄8	(1) 4 to 20mA	3.12 in	CE, CSA, UL	TEC34018	**5FYJ4**
1⁄8	(1) 4 to 20mA and (1) 2A Relay	3.12 in	CE, CSA, UL	TEC34026	**5FYJ5**
1⁄8	(1) Solid State Relay Drive-5V DC	3.12 in	CE, CSA, UL	TEC34016	**5FYJ3**
1⁄8	(1) Solid State Relay Drive-5V DC and (1) 2A Relay	3.12 in	CE, CSA, UL	TEC34015	**5FYJ2**
1⁄8	(2) 2A Relay	3.12 in	UL,CSA,CE	TEC34025	**3FXL2**
1⁄4	(1) 2A Relay	2.56 in	UL,CSA,CE	TEC56025	**3FXL3**
1⁄4	(1) 4 to 20mA	2.56 in	CE, CSA, UL	TEC56019	**5FYJ7**
1⁄4	(1) Solid State Relay Drive-5V DC	2.56 in	CE, CSA, UL	TEC56013	**5FYJ6**

PXU Series Temperature Controllers

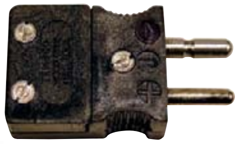
- Programmable
- 2 alarms
- 100 to 240VAC or 24VDC

Accept a wide variety of thermocouple and RTD sensor inputs to meet varying application requirements. Designed for simultaneous viewing of temperature/process, and setpoint values. Features on demand auto-tuning for easy set up and provides 2 control outputs, which can be individually configured for reverse or direct applications using front panel push-button or Crimson® software. Large dual line, 4-digit displays. IP65 ingress protection. UL Listed, 61010-1 approved.

793J18

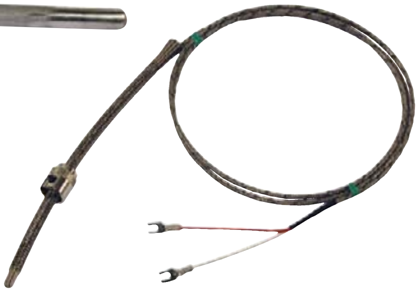
DIN Size	Output	D	Mfr. Model	100 to 240V AC Item No.	24V DC Item No.
1⁄16	(1) 4 to 20mA	3.4 in	PXU300	**793J17**	**793J29**
1⁄16	(1) 4 to 20mA, (1) Relay	3.4 in	PXU31A	**793J18**	**793J33**
1⁄16	(1) Logic/SSR	3.4 in	PXU200	**793J24**	**793J35**
1⁄16	(1) Logic/SSR, (1) Relay	3.4 in	PXU21A	**793J21**	**793J37**
1⁄16	(1) Relay	3.4 in	PXU100	**793J16**	**793J26**
1⁄16	(2) Relay	3.4 in	PXU11A	**793J15**	**793J27**
1⁄8	(1) 4 to 20mA, (1) Relay	3.27 in	PXU31A	**793J23**	**793J36**
1⁄8	(1) Logic/SSR	3.27 in	PXU200	**793J32**	—
1⁄8	(1) Logic/SSR, (1) Relay	3.27 in	PXU21A	**793J31**	—
1⁄8	(1) Relay	3.27 in	PXU100	**793J22**	—
1⁄8	(2) Relay	3.27 in	PXU11A	**793J20**	**793J34**
1⁄4	(1) 4 to 20mA, (1) Relay	3.27 in	PXU31A	**793J25**	**793J28**
1⁄4	(2) Relay	3.27 in	PXU11A	**793J19**	**793J30**

Bendable Thermocouple
5ZY12



Standard Plug
5ZY31

Heavy-Duty Thermocouple
5ZY26



Adjustable Depth Thermocouple
5ZY15

Thermocouple Wire
3AGF4

Standard Jack
5ZY34

Thermocouples, RTDs, Lead Wire, and Accessories

TEMPCO

THERMOCOUPLES

Bendable, Mineral Insulated

Plug and jack connectors allow probe to measure temperature in hard-to-reach areas.

Heavy-Duty

Rugged, pipe-protected thermocouple element is for use in heavier industrial applications. Easy field wiring of enclosed terminals found inside protected head.

Adjustable Depth

Thermocouples adjust to immersion well depth. For extruders and platens. Spade terminals and adjustable bayonet cap.

Lug Type

¼"-hole thermocouples are held in place by a bolt to measure surface temperatures.

RTD

Resistance temperature detectors (RTDs) offer greater repeatability and interchangeability than thermocouples or thermistors over the standard temperature scale.

Thermocouple Wire

Senses temperature of an object and feeds that information to a temperature control device that regulates power to the heating source or to a measuring instrument or temperature monitoring device.

Description	Temp. Limit (°F)	Length	Item No.	Length	Item No.	Length	Item No.	Length	Item No.
Thermocouples, Mineral Insulated, Bendable									
⅛" OD Probe Mini Plug/Jack, Type J	1,300	—	—	12" Probe	3AEY1	—	—	24" Probe	3AEY3
⅛" OD Probe Mini Plug/Jack, Type K	2,100	—	—	12" Probe	3AEY4	18" Probe	3AEY5	—	—
3/16" OD Probe, Plug/Jack, Type J	1,300	—	—	12" Probe	5ZY10	18" Probe	5ZY11	24" Probe	3AEX8
3/16" OD Probe, Plug/Jack, Type K	2,100	—	—	12" Probe	5ZY12	18" Probe	5ZY13	24" Probe	3AEX9
Thermocouples, Mineral Insulated w/AL Connection Head									
¼" OD, ½" NPT, 316 SS, Type J	1,400	6" Probe	3AEY7	12" Probe	3AEY8	18" Probe	3AEY9	24" Probe	3AEZ1
¼" OD, ½" NPT, Alloy 600, Type K	2,100	6" Probe	3AEZ2	12" Probe	3AEZ3	18" Probe	3AEZ4	24" Probe	3AEZ5
Thermocouples, Heavy-Duty Construction									
½" Pipe, 304 SS Sheath, Type J	1,300	—	—	12" Probe	5ZY22	18" Probe	5ZY23	—	—
½" Pipe, 601 Inconel Sheath, Type K	2,100	—	—	—	—	18" Probe	5ZY26	24" Probe	5ZY27
½" Pipe, Carbon Steel Sheath, Type J	1,200	—	—	12" Probe	5ZY24	18" Probe	5ZY25	—	—
Thermocouples, Adjustable Depth, 3/16" OD									
Bayonet, Spring, SS Overbraid, Type J	900	4' Leads	5ZY15	6' Leads	5ZY16	8" Probe	5ZY17	10' Leads	5ZY18
Compression Fitting, SS Armor, Type J	900	—	—	6' Leads	3AAA5	8" Probe	3AAA6	10' Leads	3AAA7
Thermocouples, Lug Type, ¼" Hole									
SS Overbraid, Spade Terminals, Type J	900	—	—	—	—	12' Leads	3AEZ7	—	—
SS Overbraid, Spade Terminals, Type K	900	4' Leads	3AEZ6	—	—	12' Leads	3AEZ8	—	—
Thermocouples, General Purpose									
Tube and Wire, 3/16" OD Probe, Type J	900	—	—	—	—	12" Probe, 6' Leads	3AAA1	—	—
Tube and Wire, 3/16" OD Probe, Type K	900	3" Probe, 3' Leads	3AAA2	6" Probe, 6' Leads	3AAA3	12" Probe, 6' Leads	3AAA4	—	—
RTD, Std. Tube, 316 SS									
¼" OD, 3-Wire, 100Ω	0° to 392°	—	—	6" Probe, 6' Leads	5ZY14	—	—	—	—
3/16" OD, 2-Wire, 1000Ω	0° to 900°	—	—	6" Probe, 6' Leads	3FWX4	—	—	—	—
3/16" OD, 3-Wire, 100Ω	0° to 392°	—	—	—	—	12" Probe, 8' Leads	K3176	—	—
Plug w/Jack, 3/16" OD, 100Ω	0° to 392°	12" Probe	3FWX8	—	—	24" Probe	3FWY1	—	—
Thermocouple Wire, Fiberglass Jacket									
20-Ga. Solid	900°F	—	—	Type J, 250'	3HWL5	—	—	Type K, 250'	3HWL2
20-Ga. Stranded	900°F	Type J, 100'	3HWL6	Type J, 250'	3HWL8	Type K, 100'	3HWL7	Type K, 250'	3HWL9
24-Ga. Solid	900°F	Type J, 100'	3AGF1	—	—	Type K, 100'	3AGF3	—	—
24-Ga. Stranded	900°F	—	—	—	—	Type K, 100'	3AGF4	—	—
Thermocouple Extension Wire, PVC jacket									
20-Ga. Solid	221°F	—	—	—	—	—	—	Type KX, 250'	3HWL3
Plugs/Jacks									
Miniature Bezel Panel Jack	—	J Type, 2-Pin	3FXR4	K Type, 2-Pin	3FXR5	—	—	—	—
Miniature Jack	—	J Type, 2-Pin	3FXN5	K Type, 2-Pin	3FXN6	—	—	—	—
Miniature Plug	—	J Type, 2-Pin	3FXN3	K Type, 2-Pin	3FXN4	—	—	—	—
Standard Bezel Panel Jack	—	J Type, 2-Pin	3FXR1	K Type, 2-Pin	3FXR2	—	—	—	—
Standard Jack	—	J Type, 2-Pin	5ZY33	K Type, 2-Pin	5ZY34	—	—	—	—
Standard Plug	—	J Type, 2-Pin	5ZY31	K Type, 2-Pin	5ZY32	—	—	—	—
Bayonet Adapters									
⅛-27 NPT	—	⅞" Length	5ZY30	1⅜" Length	3AGA8	1½" Length	3AGA9	2" Length	3FXN1
Compression Fittings ⅛" (M)NPT									
Adjustable Brass, For Use With:	—	⅛" OD Probes	3FXP7	3/16" OD Probes	3FXP8	¼" OD Probes	3FXP9	—	—
Non-Adjustable Brass, For Use With:	—	⅛" OD Probes	3FXP5	3/16" OD Probes	5ZY28	¼" OD Probes	3FXP6	—	—
Cable Clamps									
SS Construction, For Use With:	—	Standard Plugs/ Jacks Ea.	5ZY29	—	—	—	—	Grommets-Mini 2-Pin, Pk/10	3FXP4

TEMPCO

Types MG, TGGT, and PTFE High-Temp. Lead Wires

For commercial or industrial applications, heaters, furnaces, kilns, and food service equipment.

TYPE MG

- Rated for 600V

Mica glass composite insulation over stranded nickel-clad copper conductors. Covered by fiberglass overbraid with high-temp. finish for superior insulation and dielectric strength. UL 5335/5107, CSA AWM Class 1 Group A/B FT-1.

TYPE PTFE

- Rated for 300V

PTFE insulation is extruded over silver-plated copper conductors for high-temp. performance. UL 1180, CSA AWM Class 1 Group A/B FT-1.

TYPE TGGT

- Rated for 600V

Insulated with PTFE tape over stranded nickel-plated copper conductors, then 2 layers of fiberglass insulation. Covered by PTFE-treated fiberglass overbraid for safe, high-temp. applications. UL 5256, CSA AWM Class 1 Group A/B.

Type MG
2KE36

Spool Length	Jacket Color	Max. Temp. (°F)	22 AWG Item No.	20 AWG Item No.	18 AWG Item No.	16 AWG Item No.	14 AWG Item No.	12 AWG Item No.	10 AWG Item No.
MG									
100 ft	Natural	842°	—	—	**2KE36**	**2KE37**	**2KE38**	**2KE39**	**2KE40**
250 ft	Natural	842°	—	—	**3GRK2**	**3GRK3**	**3GRK4**	**3GRK5**	**3GRK6**
PTFE									
100 ft	Black	392°	**3GRN8**	**3GRN7**	**3GRN6**	**3GRN5**	**3GRN4**	—	—
100 ft	Red	392°	**3GRL7**	**3GRL6**	**3GRL5**	**3GRL4**	**3GRL3**	—	—
100 ft	White	392°	**3GRN3**	**3GRN2**	**3GRN1**	**3GRL9**	**3GRL8**	—	—
250 ft	Black	392°	**3GRR5**	**3GRR4**	**3GRR3**	**3GRR2**	**3GRR1**	—	—
250 ft	Red	392°	**3GRP4**	**3GRP3**	**3GRP2**	**3GRP1**	**3GRN9**	—	—
250 ft	White	392°	**3GRP9**	**3GRP8**	**3GRP7**	**3GRP6**	**3GRP5**	—	—
TGGT									
100 ft	Natural	482°	—	—	**2KE41**	**2KE42**	**2KE43**	**2KE44**	**2KE45**
250 ft	Natural	482°	—	—	**3GRK7**	**3GRK8**	**3GRK9**	**3GRL1**	**3GRL2**

41A072

Honeywell

Temperature Probes

Maximize your component and product performance for many applications. These probes provide enhanced reliability, repeatability, precision, and responsiveness. Feature wide operating temperature.

Temp. Range (F)	Probe Temp. Measuring Element	Probe Connection	Probe Contact Material	Mfr. Model	Item No.
Immersion Temperature Probe					
-76° to 257°	100 Ohm NTC Thermistor	Bare Wire	300 Stainless Steel	590-53AD33-104	**41A072**

36GL12

Probe Length	Plug or Connector Type	TYPE Type J 304 Stainless Steel Item No.	TYPE Type K Inconel 600 Item No.
0.125 in O.D., Grounded			
6 in	Mini Plug	**36GL10**	**36GL14**
6 in	Standard Plug	**36GL12**	**36GL16**
12 in	Mini Plug	**36GK68**	**36GK71**
18 in	Mini Plug	**36GK69**	**36GK72**
24 in	Mini Plug	**36GK70**	**36GK73**
0.125 in O.D., Ungrounded			
6 in	Mini Plug	**36GL09**	**36GL13**
6 in	Standard Plug	**36GL11**	**36GL15**
12 in	Mini Plug	**36GK74**	**36GK77**
18 in	Mini Plug	**36GK75**	**36GK78**
24 in	Mini Plug	**36GK76**	**36GK79**
0.188 in O.D., Grounded			
12 in	Standard Plug	**36GK92**	**36GK94**
18 in	Standard Plug	**36GK93**	**36GK95**
24 in	Standard Plug	**36GL05**	**36GL06**
0.188 in O.D., Ungrounded			
12 in	Standard Plug	**36GK96**	**36GK98**
18 in	Standard Plug	**36GK97**	**36GK99**
24 in	Standard Plug	**36GL07**	**36GL08**

Plug or Connector Type	Characteristics	TYPE J Black Item No.	TYPE K Yellow Item No.
Thermocouple Jack			
Miniature	Flat Pins	**36GK87**	**36GK90**
Miniature	Flat Pins, No Logo	**36GK88**	**36GK91**
Miniature	Flat Pins, Single Screw Design	**36GK86**	**36GK89**
Standard	2-Pin	**36GL03**	**36GL04**
Thermocouple Plug			
Miniature	Flat Pins	**36GK81**	**36GK84**
Miniature	Flat Pins, No Logo	**36GK82**	**36GK85**
Miniature	Flat Pins, Single Screw Design	**36GK80**	**36GK83**
Standard	2-Pin	**36GL01**	**36GL02**

36GL03

36GK84

Dayton

Thermocouples and Accessories

- Type J: 32° to 1380°F
- Type K: -325° to 2280°F

These MgO-insulated thermocouples are made using the highest purity MgO for temperatures up to 2300°F (1260°C). Thermo elements are all ANSI special limits of error to give your measurements the best possible results.

Looking for additional Dayton components? See Grainger.com for even more Illuminated and Nonilluminated Push Buttons, Selector Switches, LED Modules, and Contact Blocks.

30G082

H7743

30G154

30G294

22mm Illuminated Push Buttons—Complete Units

- LED
- 1NO/1NC contact
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Feature flush head and momentary action. Chrome construction. UL Listed. CSA and CE Certified.

▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Color	Item No.
24V AC/DC, 125V AC/DC	Green, Red, Yellow	**H6943**

30G234

22mm Nonilluminated Push Buttons—Complete Units

- Momentary action
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Round shape. UL Listed. CSA and CE Certified.

			PLASTIC			CHROME DIE CAST ALUMINUM			
Type of Operator	Contact Form	Legend	Black Item No.	Green Item No.	Red Item No.	Black Item No.	Green Item No.	Red Item No.	Yellow Item No.
Flush Button	1NO/1NC	No Legend	**30G232**	**30G233**	**30G234**	**30G236**	**30G237**	**30G238**	—
Flush Button	1NO	No Legend	**30G224**	**30G225**	—	**30G227**	**30G228**	—	—
Flush Button	1NO	I	—	—	—	—	**30G240**	—	—
Flush Button	1NC	No Legend	—	—	**30G230**	—	—	—	—
Flush Booted Button	1NO	No Legend	**32UK43**	—	—	**30G242**	**30G243**	—	**30G244**
Extended Button	1NC	No Legend	—	—	**32UK48**	—	—	**30G246**	—
40mm Mushroom Head	1NO	No Legend	—	**32UK29**	—	**30G247**	**32UK32**	**32UK34**	—

30G262

22mm Selector Switches—Complete Units

- 10A
- NEMA 1, 2, 3, 4 and 4X rated

Chrome construction. Black Lever. UL Listed. CSA and CE Certified.

Position	Action	Type of Operator	Key Removal	Contact Form	PLASTIC Item No.	METAL Item No.
2	Maintained / Momentary	Keyed	Left	1NO	—	**30G259**
2	Maintained / Maintained	Keyed	Left	1NO	—	**30G269**
2	Maintained / Maintained	Keyed	Left/Right	1NO	**30G270**	**30G271**
2	Maintained / Maintained	Lever	No Key	1NO	**30G264**	**30G265**
2	Maintained / Maintained	Extended Lever	No Key	1NO	**30G266**	**30G267**
3	Momentary / Maintained / Momentary	Lever	No Key	2NO	**30G260**	**30G261**
3	Momentary / Maintained / Momentary	Extended Lever	No Key	2NO	**30G262**	—
3	Maintained / Maintained / Maintained	Keyed	Any Position	2NO	—	**30G277**
3	Maintained / Maintained / Maintained	Keyed	Center	2NO	**30G278**	**30G279**
3	Maintained / Maintained / Maintained	Lever	No Key	2NO	**30G272**	**30G273**
3	Maintained / Maintained / Maintained	Extended Lever	No Key	2NO	**30G274**	**30G275**

30G209

22mm LED Pilot Lights—Complete Units

- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Designed with screw-clamp terminal connection. Round shape. LED lamps provide 10,000 hr. of average life. UL Listed. CSA and CE Certified.

	PLASTIC				METAL	
Voltage	Green Item No.	Red Item No.	White Item No.	Yellow Item No.	Green Item No.	Red Item No.
24V AC/DC	**30G209**	**30G210**	**30G208**	**30G211**	**30G213**	**30G214**
120V AC	**30G217**	**30G218**	**30G216**	**30G219**	**30G221**	**30G222**

32W267

32W274

32W275

32W278

22mm Push-Button Control Stations—Complete Units

- ABS NEMA 4X enclosures
- 600VAC
- Station contact rating: 3A at 240VAC, 6A at 120VAC, 0.27A at 250VDC, 0.55A at 125VDC

Surface-mount stations are 600VAC/DC. Gray enclosures. UL Listed, IEC, CSA and CE Certified. 32W279 is UL Listed, IEC and CSA Certified.

Action	No. of Operators	Legend	Contact Form	Operator Color	Encl. Material	H	W	D	Item No.
Push Button Control Stations									
Momentary	1	Start	1NO	Black	ABS	1.98 in	2.92 in	2.69 in	**32W265**
Momentary	1	Stop	1NC	Red	ABS	1.98 in	2.92 in	2.69 in	**32W266**
Momentary	2	Start/Stop	1NO/1NC	Black/Red	ABS	1.98 in	4.09 in	2.69 in	**32W267**
Momentary	2	For/Rev	2NO	Black	ABS	1.98 in	4.09 in	2.69 in	**32W268**
Momentary	3	Open/Stop/Close	2NO/1NC	Black/Red	ABS	1.98 in	5.27 in	2.69 in	**32W271**
Momentary	3	Forward/Stop/Reverse	2NO/1NC	Black/Red	ABS	1.98 in	5.27 in	2.69 in	**32W272**
Momentary	3	Up/Stop/Down	2NO/1NC	Black/Red	ABS	1.98 in	5.27 in	2.69 in	**32W273**
Momentary	1	Stop	1NC	Red	ABS	1.98 in	2.92 in	2.69 in	**32W274**
Twist-to-Release	1	Twist to Release Arrows	1NC	Red	ABS	1.98 in	2.92 in	2.69 in	**32W275**
Key Release	1	Emergency Stop	1NC	Red	ABS	1.98 in	2.92 in	2.69 in	**32W276**
Push / Pull	1	No Legend	1NC	Red	ABS	1.98 in	2.92 in	2.69 in	**32W277**
Pushbutton Enclosures									
—	1	—	—	—	Plastic	1.98 in"	2.68 in"	2.91 in"	**32W279**
—	1	—	—	—	Die-Cast Aluminum	2.91 in"	2.68 in"	2.1 in"	**32W278**
Contact Block									
1NO, For Use With 32W267, 32W268, 32W271, 32W272, 32W273, 32W278, 32W279, Mfr. No. 32W265									**32W280**
1NC, For Use With 32W267, 32W271, 32W272,32W273,32W274,32W275, 32W276,32W277, 32W278,32W279, Mfr. No. 32W266									**35V483**

22mm Illuminated Push Buttons—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

These push buttons feature an all-in-one design. They also help you reduce inventory and increase functionality. Maintained push buttons are field-convertible to momentary.

Type of Operator	Contact Form	Legend	Legend/Back Ground Color	IP Rating	120V AC Blue Item No.	120V AC Green Item No.	120V AC Red Item No.	120V AC White Item No.	24V AC/DC Blue Item No.	24V AC/DC Green Item No.	24V AC/DC Red Item No.	24V AC/DC White Item No.
Momentary												
Extended Button	1NC	—	—	67, 69K	—	—	20AX66	—	—	—	20AX67	—
Extended Button	1NC	O	White/Red	67, 69K	—	—	20AX68	—	—	—	20AX69	—
Extended Button	1NO	—	—	67, 69K	20AX60	20AX62	—	20AX70	20AX61	20AX63	—	20AX71
Extended Button	1NO	I	Black/Green	67, 69K	—	20AX64	—	—	—	—	—	—
Extended Button	1NO	I	White/Green	67, 69K	—	—	—	—	—	20AX65	—	—
Extended Button	1NO	O	Black/White	67, 69K	—	—	—	20AX72	—	—	—	20AX73
Flush Button	1NC	—	—	67, 69K	—	—	20AX74	—	—	—	20AX75	—
Flush Button	1NC	O	Black/Red	67, 69K	—	—	20AX76	—	—	—	20AX77	—
Flush Button	1NO	—	—	67, 69K	20AX54	20AX56	—	20AX78	20AX55	20AX57	—	20AX79
Flush Button	1NO	I	White/Green	67, 69K	—	20AX58	—	—	—	20AX59	—	—
Flush Button	1NO	I	Black/White	67, 69K	—	—	—	—	—	—	—	20AX81
Flush Button	1NO	O	Black/White	67, 69K	—	—	—	20AX80	—	—	—	—
Maintained (Field Convertible)												
Extended Button	1NC	—	—	67, 69K	—	—	20AW82	—	—	—	20AW83	—
Extended Button	1NO	—	—	67, 69K	20AY20	20AY22	—	20AW84	—	20AW81	—	20AW85
Flush Button	1NC	—	—	67, 69K	—	—	20AW86	—	—	—	20AW87	—
Flush Button	1NO	—	—	67, 69K	20AY16	20AY18	—	20AW88	20AY17	20AY19	—	20AY31
Maintained												
Extended Button	1NO	—	—	67, 69K	—	—	—	—	20AY21	—	—	—

20AX54

20AW82

20AX39

20AX27

22mm Nonilluminated Push Buttons—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

These units help you reduce inventory and increase functionality with their all-in-one design.

Legend	Color	Legend/Back Ground Color	IP Rating	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NC Item No.	2NO Item No.
Momentary, Extended Button								
I	Green	White/Green	67, 69K	—	20AX33	20AX34	—	20AX35
No Legend	Black	—	67, 69K	20AX42	—	20AX44	20AX43	—
No Legend	Green	—	67, 69K	—	20AX30	20AX31	—	20AX32
No Legend	Red	—	67, 69K	20AX36	—	20AX38	20AX37	—
No Legend	White	—	67, 69K	—	20AX48	20AX49	—	20AX50
O	Black	White/Black	67, 69K	20AX45	—	20AX47	20AX46	—
O	Red	White/Red	67, 69K	20AX39	—	20AX41	20AX40	—
O	White	Black/White	67, 69K	—	20AX51	20AX52	—	20AX53
Momentary, Flush Button								
I	Green	White/Green	67, 69K	—	20AX27	20AX28	—	20AX29
No Legend	Green	—	67, 69K	—	20AX24	20AX25	—	20AX26
No Legend	Red	—	67, 69K	20AY13	—	20AY15	20AY14	—
Maintained (Field Convertible), Extended Button								
I	Green	White/Green	67, 69K	—	20AX91	20AX92	—	20AX93
No Legend	Black	—	67, 69K	20AY01	—	20AY03	20AY02	—
No Legend	Green	—	67, 69K	—	20AX88	20AX89	—	20AX90
No Legend	Red	—	67, 69K	20AX94	—	20AX96	20AX95	—
No Legend	White	—	67, 69K	—	20AY07	20AY08	—	20AY09
O	Black	White/Black	67, 69K	20AY04	—	20AY06	20AY05	—
O	Red	White/Red	67, 69K	20AX97	—	20AX99	20AX98	—
O	White	Black/White	67, 69K	—	20AY10	20AY11	—	20AY12
Maintained (Field Convertible), Flush Button								
I	Green	White/Green	67, 69K	—	20AX85	20AX86	—	20AX87
No Legend	Black	—	67, 69K	20AY35	—	20AY37	20AY36	—
No Legend	Green	—	67, 69K	—	20AX82	20AX83	—	20AX84
No Legend	No Cap	—	67, 69K	20AY41	20AY43	20AY44	20AY42	20AY45
No Legend	Red	—	67, 69K	20AY32	—	20AY34	20AY33	—
No Legend	White	—	67, 69K	—	20AY38	20AY39	—	20AY40

22mm LED Pilot Lights—Complete Units

- NEMA 4X and 13

These units combine a durable bright LED unit and modern lenses designed to create a bright and visible indicating light.

20AX11

Voltage	IP Rating	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
Raised Indicator Light						
24V AC/DC	67, 69K	20AW90	20AW92	20AW94	20AW96	20AX11
120V AC	67, 69K	20AW89	20AW91	20AW93	20AW95	20AX10
Raised Indicator Light Without Lens						
24V AC/DC	67, 69K	20AW99	20AX03	20AX06	20AX09	—
120V AC	67, 69K	20AW97	20AX01	20AX04	20AX07	—
230V AC	67, 69K	20AW98	20AX02	20AX05	20AX08	—

22mm Emergency Stop Push Buttons—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

Durable and reliable solution to a variety of e-stop applications. They help eliminate the need for self-monitoring contact blocks.

20AX20

20AX12

Type of Operator	Includes	IP Rating	1NO/1NC Item No.	2NC Item No.
Maintained Push / Turn To Release				
45mm Mushroom Head	—	67, 69K	20AX21	20AX20
60mm Mushroom Head	—	67, 69K	20AX23	20AX22
Maintained Push / Key Release				
45mm Mushroom Head	MS1 Coded Key	66	20AX13	20AX12
45mm Mushroom Head	MS2 Coded Key	66	20AX15	20AX14
60mm Mushroom Head	MS1 Coded Key	66	20AX17	20AX16
60mm Mushroom Head	MS2 Coded Key	66	20AX19	20AX18

22mm Selector Switches—Complete Units

- NEMA 1, 3, 4X, 12, and 13 rated

These switches are rated for 1 million mechanical operations. Field-convertible from momentary to maintained, and maintained to momentary.

Position	Type of Operator	Key Removal	Bezel Color	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	IP Rating	1NC Item No.	1NO Item No.	1NO/1NC Item No.	2NC Item No.	2NO Item No.
Maintained / Momentary												
2	Knob with 60° Rotation	No Key	Silver	X	X	—	65	20AY54	20AY56	20AY57	20AY55	20AY58
2	Knob with 40° Rotation	No Key	Silver	X	X	—	65	20AY49	20AY51	20AY52	20AY50	20AY53
2	Keyed, Number MS1	Left	Silver	X	X	—	65	20AY93	20AY95	20AY96	20AY94	20AY97
Maintained / Maintained												
2	Knob with 60° Rotation	No Key	Silver	X	X	—	65	20AY67	20AY69	20AY70	20AY68	20AY71
2	Knob with 40° Rotation	No Key	Silver	X	X	—	65	20AY62	20AY64	20AY65	20AY63	20AY66
2	Keyed, Number MS2	Left and Right	Silver	X	X	—	65	20AY85	20AY87	20AY88	20AY86	20AY89
2	Keyed, Number MS1	Left	Silver	X	X	—	65	20AY75	20AY77	20AY78	20AY76	20AY79
2	Keyed, Number MS1	Left and Right	Silver	X	X	—	65	20AY80	20AY82	20AY83	20AY81	20AY84
Momentary / Maintained / Momentary												
3	Knob with 40° Rotation	No Key	Silver	XO	OO	OX	65	—	—	20AY47	20AY46	20AY48
3	Keyed, Number MS1	Center	Silver	XO	OO	OX	65	—	—	20AY91	20AY90	20AY92
Maintained / Maintained / Maintained												
3	Knob with 40° Rotation	No Key	Silver	XO	OO	OX	65	20AY59	—	20AY60	—	20AY61
3	Keyed, Number MS1	No Key	Silver	XO	OO	OX	65	20AY72	—	20AY73	—	20AY74

20AY47

20AY73

SIEMENS

22mm LED Illuminated Push Buttons—Complete Units

- Flush button operator
- Contact rating 10A @ 600VAC, 5A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action

Include 1NO/1NC contact block. UL Listed, CSA and CE Certified.

411K24

Voltage	Basic Material	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Nickel Plated Brass and Zinc Die Cast Bezel						
24V AC/DC	Metal	411K65	411K25	411K24	411K26	411K64
120V AC	Metal	411K69	411K68	411K66	411K70	411K67
Plastic Bezel						
24V AC/DC	Plastic	411K44	411K31	411K30	411K32	411K43
120V AC	Plastic	411K48	411K47	411K45	411K49	411K46

411J10

411H64

411K08

SIEMENS

22mm Illuminated Push Buttons

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Action	Basic Material	Amber Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.
Nickel Plated Brass and Zinc Die Cast Bezel							
Extended Button	Momentary	Metal	411J07	411J10	411J09	411J08	411J11
Flush Button	Momentary	Metal	411H99	411J03	411J02	411J01	411J04
Flush Button	Maintained	Metal	—	411J39	411J38	411J37	411J40
Polyamide Bezel							
40mm Mushroom Head	Maintained	Plastic	—	—	—	411K08	—
Extended Button	Momentary	Plastic	—	411H82	411H81	411H80	—
Flush Button	Momentary	Plastic	411H62	411H65	411H64	411H63	411H66
Flush Button	Maintained	Plastic	—	411J23	411J22	411J21	411J24

411K09

411H97

SIEMENS

22mm Selector Switches—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12 UL Listed, CSA and CE Certified.

Action	Type of Operator	Key Removal	Basic Material	Position	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Item No.
Illuminated Selector Switch Operator								
Maintained / Maintained / Maintained	Lever	—	Plastic	3	X	0	X	411H98
Key-Operated Switch								
Maintained / Maintained	Keyed	All Positions	Metal	2	X	0	—	411K11
Maintained / Maintained / Maintained	Keyed	Right	Plastic	3	X	0	X	411K07
	Keyed	Center and Right	Metal	3	X	0	X	411K09
Maintained / Maintained / Momentary	Keyed	Left/Center	Metal	3	X	0	X	411K10
Non-Illuminated Selector Switch Operator								
Maintained / Maintained	Keyed	Any Position	Metal	2	0	X	—	411K03
	Keyed	Left	Metal	2	0	X	—	411K04
	Keyed	Left	Metal	2	0	X	—	411K12
	Keyed	Right	Metal	2	0	X	—	411K13
Maintained / Maintained / Maintained	Lever	No Key	Plastic	3	X	0	X	411H97
	Keyed	Left	Metal	3	X	0	X	411K06
	Keyed	Left	Metal	3	X	0	X	411K15
	Keyed	Right	Metal	3	X	0	X	411K16
Maintained / Maintained / Momentary	Lever	No Key	Plastic	3	X	0	X	411J28
Maintained / Momentary	Lever	No Key	Plastic	2	X	0	—	411J25
	Keyed	Left	Metal	2	0	X	—	411K05
	Keyed	Left	Metal	2	0	X	—	411K14
Momentary / Maintained / Maintained	Lever	No Key	Plastic	3	X	0	X	411J27
Momentary / Maintained / Momentary	Lever	No Key	Plastic	3	X	0	X	411J26

411J99

411K34

SIEMENS

22mm Selector Switches

- 10A @ 600VAC, 1A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Position	Contact Form	Key Removal	Basic Material	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Item No.
Maintained / Maintained								
Keyed	2	1NO	Any Position	Plastic	0	X	—	411J98
Keyed	2	1NO	Any Position	Metal	0	X	—	411J99
Keyed	2	1NO/1NC	Any Position	Plastic	XO	OX	—	411K35
Keyed	2	1NO/1NC	Any Position	Metal	XO	OX	—	411K63
Lever	2	1NO	No Key	Plastic	0	X	—	411J56
Lever	2	1NO/1NC	No Key	Metal	XO	OX	—	411K60
Maintained / Maintained / Maintained								
Keyed	3	2NO	Any Position	Plastic	XX	OO	XX	411K01
Lever	3	2NO	No Key	Plastic	XX	OO	XX	411J62
Lever	3	2NO/2NC	No Key	Plastic	XOXO	OXOX	XOXO	411K34
Lever	3	2NO/2NC	No Key	Metal	XOXO	OXOX	XOXO	411K61
Momentary / Maintained / Momentary								
Lever	3	2NO	No Key	Plastic	XX	OO	XX	411J73
Lever	3	2NO/2NC	No Key	Plastic	XOXO	OXOX	XOXO	411K42
Lever	3	2NO/2NC	No Key	Metal	XOXO	OXOX	XOXO	411K62

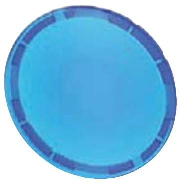
SIEMENS

Push Button Cap

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12 UL Listed, CSA and CE Certified.

411H41

411H51



For Use With	Connec. Type	Black Item No.	Blue Item No.	Clear Item No.	Color Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Non-Illuminated								
Siemens Flat Push Button 3SU1 Series	Snap On	411H45	411H39	—	411H41	411H42	411H46	411H44
Illuminated								
Siemens Raised Push Button 3SU1 Series	Snap On	—	411H27	—	411H28	411H29	—	411H30
Siemens Flat Push Button 3SU1 Series	Snap On	—	411H51	411H40	411H47	411H48	411H43	411H49

411J66

SIEMENS

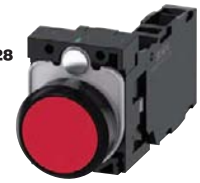
22mm Lamp Modules

UL Listed, CSA and CE Certified.

Lamp Module Voltage	Mfr. Model	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
LED						
24V AC/DC	3SU1401-1BB	411J77	411J76	411J75	411J78	411J74
120V AC	3SU1401-1BC	411J66	411J65	411J64	411J67	411J63
240V AC	3SU1401-1BF	411J71	411J70	411J69	411J72	411J68

411K56

411K28



SIEMENS

22mm Nonilluminated Push Buttons—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Action	Basic Material	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Metal Bezel								
Extended Button	Momentary	Zinc Alloy	411K54	411K57	411K56	411K55	—	—
Flush Button	Momentary	Zinc Alloy	411K22	411K52	411K51	411K23	411K53	411K50
Plastic Bezel								
Extended Button	Momentary	Polyamide	411K39	—	—	411K40	—	—
Flush Button	Momentary	Polyamide	411K27	411K37	411K29	411K28	411K38	411K36

411K17

411J32

411H57

SIEMENS

22mm Nonilluminated Push Button Operators

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12

UL Listed, CSA and CE Certified.

Type of Operator	Basic Material	Black Item No.	Red Item No.
Maintained			
40mm Mushroom Head	Metal	—	411J60
40mm Mushroom Head	Plastic	—	411J51
Maintained / Key Release			
40mm Mushroom Head Ronis SB30 Key	Metal	—	411K02
40mm Mushroom Head CES SSG10 Key	Metal	—	411K17
40mm Mushroom Head Ronis SB30 Key	Plastic	—	411J97
Maintained / Trigger Action / Turn to Release			
40mm Mushroom Head	Metal	—	411J59
40mm Mushroom Head	Plastic	—	411J50
Momentary			
60mm Mushroom Head	Metal	411J45	411J46
40mm Mushroom Head	Metal	411J43	411J44
35mm Mushroom Head	Metal	411J41	411J42
35mm Mushroom Head	Plastic	411J29	411J30
60mm Mushroom Head	Plastic	411J35	411J36
40mm Mushroom Head	Plastic	411J31	411J32

Type of Operator	Basic Material	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Maintained							
Flush Button	Metal	411J13	411J17	411J16	411J14	411J18	411J15
Flush Button	Plastic	411H91	411H95	411H94	411H92	411H96	411H93
Momentary							
Extended Button	Metal	411H85	411H89	411H88	411H86	411H90	411H87
Extended Button	Plastic	411H74	411H78	411H77	411H75	411H79	411H76
Flush Button	Metal	411H68	411H72	411H71	411H69	411H73	411H70
Flush Button	Plastic	411H53	411H57	411H56	411H54	411H58	411H55

411J82

SIEMENS

22mm LED Pilot Lights

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
  UL Listed, CSA and CE Certified.

Voltage	Basic Material	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
24V AC/DC	Polyamide	411J82	411J81	411J79	411J83	411J80
120V AC	Zinc Alloy	411J91	411J90	411J88	—	411J89

SIEMENS

22mm Multihead Operators

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action UL Listed, CSA and CE Certified.

Type of Operator	No. of Heads	Color	Item No.
Illuminated Multi-Head Operator			
(1) Extended Button, (1) Flush Button	2	White/Black	411J53
	2	Green/Red	411J54
	2	Black/White	411J55
(2) Flush Buttons	2	Green/Red	411J52
Non-Illuminated Multihead Operator			
(1) Extended Button, (1) Flush Button	2	Green/Red	411J49
	2	White/Black	411J57
(2) Flush Buttons	2	Green/Red	411J47
	2	White/Black	411J48

411J52

SIEMENS

22mm Emergency Stop Push Button

- 10A @ 600VAC, 1A @ 600VDC
- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
  UL Listed, CSA and CE Certified.

Contact Form	Material	Item No.
Maintained Push / Pull		
1NC	Metal	411J87
1NO/1NC	Plastic	411K41
1NO/1NC	Metal	411K58
Maintained Push / Twist		
1NC	Metal	411J86
1NO/1NC	Metal	411K59

411J86

SIEMENS

22mm Joystick Operators—Complete Units

- NEMA rated 1, 2, 3, 3R, 4, 4X, and 12
- Momentary action

Include contact blocks. UL Listed, CSA and CE Certified.

No. of Directions	Item No.
Polycarbonate Bezel	
2	411K18
4	411K20
Nickel Plated Brass and Zinc Die Cast Bezel	
2	411K19
4	411K21

411K18

22mm Illuminated Push Buttons—Complete Units

Schneider Electric

- LED
- Momentary operation
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with contact block, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

▶CHOOSE: Type of Operator	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Color	Basic Material	Item No.
Round Button; Round Guarded Button	24V AC/DC; 120V AC	Red; Green; Blue; Yellow; White	Metal	**H6941**

Chrome/Full Guard

Plastic/Full Guard

22mm Nonilluminated Push Buttons—Complete Units

Schneider Electric

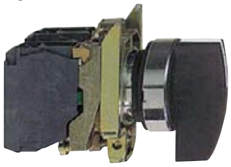
- Momentary action
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with contact block, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

▶CHOOSE: Type of Operator	▶CHOOSE: Head Material	▶CHOOSE: Color	Contact Form	Legend	Item No.
Flush Button	Plastic, Metal	Black, Green, Yellow, Blue	1NO	No Legend	**H7077**
Flush Button	Plastic, Metal	Black, Green, Red, Yellow	1NO/1NC	No Legend	**H7079**
Flush Button	Plastic, Metal	Green	1NO	I	**H7075**
Flush Button	Plastic, Metal	Red	1NC	0	**H7075**
Flush Button, Extended Button	Plastic, Metal	Red	1NC	No Legend	**H7076**
40mm Mushroom Head	Plastic	Black	1NO	No Legend	**6HL41**
40mm Mushroom Head	Metal	Black	1NO	No Legend	**6HK58**

Keyed Lever

Standard Lever



Extended Lever

22mm Selector Switches—Complete Units

Schneider Electric

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Complete with contact block for fast, easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

Position	Type of Operator	Key Removal	Contact Form	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	IP Rating	PLASTIC Item No.	METAL Item No.
Maintained / Momentary									
2	Keyed	Left	1NO	0	X	—	65	—	**6HK66**
Maintained / Maintained									
2	Keyed	Left	1NO	0	X	—	65	**2UZC7**	**6HK63**
2	Keyed	Left/Right	1NO	0	X	—	65	**6HL48**	**6HK65**
2	Lever	No Key	1NO	0	X	—	65	**6HL42**	**6HK59**
2	Extended Lever	No Key	1NO	0	X	—	65	**2UZC8**	**6HK67**
Momentary / Maintained / Momentary									
3	Lever	No Key	2NO	XO	OO	OX	65	**2UZD1**	**6HK61**
3	Extended Lever	No Key	2NO	XO	OO	OX	65	**2UZD2**	**6HK69**
Maintained / Maintained / Maintained									
3	Keyed	Any Position	2NO	XO	OO	OX	65	**6HL45**	**6HK62**
3	Keyed	Center	2NO	XO	OO	OX	65	**6HL47**	**6HK64**
3	Lever	No Key	2NO	XO	OO	OX	65	**2UZD3**	**6HK60**
3	Extended Lever	No Key	2NO	XO	OO	OX	65	**6HL51**	**6HK68**
Selector Switch Key									
For Use With Schneider XB4 and XB5 Series Selector Switches								—	**6HZ23**

Schneider Electric

6HM22

22mm Chrome Joystick Controllers—Complete Units

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

1-step, 1NO contact per direction. Complete with contact block for fast, easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

Action	No. of Directions	Bezel	Item No.
Momentary	2	Chromium Plated Metal	**6HM17**
	4	Plastic	**6HM22**
	4	Chromium Plated Metal	**6HM18**
Maintained	2	Plastic	**6HM19**
	2	Chromium Plated Metal	**6HM15**
	4	Chromium Plated Metal	**6HM16**

Schneider Electric

6HK93

22mm LED Pilot Lights—Complete Units

- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Come complete with lamp module, ready for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

	PLASTIC				METAL			
Voltage	White Item No.	Green Item No.	Red Item No.	Yellow Item No.	White Item No.	Green Item No.	Red Item No.	Yellow Item No.
24V AC	**2UZC1**	**2UZC3**	**2UZC4**	**2UZC5**	**6HK91**	**6HK92**	**6HK93**	**6HK94**
110 to 120V AC	**2UZC2**	**6HL81**	**6HL82**	**2UZC6**	**6HK96**	**6HK97**	**6HK98**	**6HK99**

Chrome Flush

Chrome Extended

Base 6HR01

Base 6HW41

22mm Illuminated Push Buttons and Incandescent BA9s Modules

Schneider Electric

- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

A complete push button requires an operator, mounting base, contact block, and incandescent module. Some lamps sold separately, see page 238. UL Listed, CSA Certified, and CE Certified.

		PLASTIC, ZB5 SERIES					CHROME, ZB4 SERIES				
Type of Operator	Action	White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.	White Item No.	Green Item No.	Red Item No.	Yellow Item No.	Blue Item No.
Illuminated Push Button Operators											
Flush Button	Momentary	**6HW94**	**6HW96**	**6HW98**	**6HX01**	**6HX03**	**6HR55**	**6HR57**	**6HR59**	**6HR61**	**6HR63**
Extended Button	Momentary	**6HW84**	**6HW86**	**6HW88**	—	—	**6HR45**	**6HR47**	**6HR48**	**6HR50**	**6HR52**

Description	Voltage	1NO Item No.	1NC Item No.	2NO Item No.	1NO/1NC Item No.
Mounting Base, Contact Block, and Incandescent Module, For Use with Plastic, ZB5 Series Operators					
Lamp Module and Contact Block, Includes 6V Lamp	120VAC	—	—	—	**6HW38**
Lamp Module and Contact Block, Includes 6V Lamp	240VAC	—	—	—	**6HW39**
Lamp Module and Contact Block (Lamp Required)	Max. 250V	**6HW40**	**6HW41**	**6HW42**	**6HW43**
Mounting Base, Contact Block, and Incandescent Module, For Use with Chrome, ZB4 Series Operators					
Lamp Module and Contact Block, Includes 6V Lamp	120VAC	**6HP98**	—	—	**6HP99**
Lamp Module and Contact Block (Lamp Required)	Max. 250V	**6HR01**	**6HR02**	**6HR03**	**6HR04**

22mm Illuminated Push Buttons and LED Modules

Schneider Electric

- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

A complete push button requires an operator, mounting base, contact block, and LED module. UL Listed, CSA Certified, and CE Certified.

Chrome Flush

Chrome Extended

Chrome Booted

Type of Operator	Action	PLASTIC, ZB5A SERIES White Item No.	PLASTIC, ZB5A SERIES Green Item No.	PLASTIC, ZB5A SERIES Red Item No.	PLASTIC, ZB5A SERIES Yellow Item No.	PLASTIC, ZB5A SERIES Blue Item No.	CHROME, ZB4 SERIES White Item No.	CHROME, ZB4 SERIES Green Item No.	CHROME, ZB4 SERIES Red Item No.	CHROME, ZB4 SERIES Yellow Item No.	CHROME, ZB4 SERIES Blue Item No.
Illuminated Push Button Operators											
Flush Button	Momentary	**6HW95**	**6HW97**	**6HW99**	**6HX02**	**6HX04**	**6HR56**	**6HR58**	**6HR60**	**6HR62**	**6HR64**
Flush Booted Button	Momentary	**6HX06**	**6HX07**	**6HX08**	**6HX09**	**6HX10**	**6HR66**	**6HR67**	**6HR68**	**6HR69**	**6HR70**
Extended Button	Momentary	**6HW85**	**6HW87**	**6HW89**	**6HW90**	**6HW92**	**6HR46**	—	**6HR49**	**6HR51**	**6HR53**
Flush Button	Maintained	**6HT96**	**6HT99**	**6HV02**	**6HV04**	**6HV06**	**6HN59**	**6HN62**	**6HN64**	**6HN66**	**6HN68**
Extended Button	Maintained	—	**6HV11**	**6HV13**	**6HV15**	—	**6HN70**	**6HN73**	**6HN75**	**6HN77**	**6HN79**
Extended Button	Maintained	—	—	—	—	**6HV17**	—	—	—	—	—

Voltage	Contact Form	PLASTIC, ZB5 SERIES White Item No.	PLASTIC, ZB5 SERIES Green Item No.	PLASTIC, ZB5 SERIES Red Item No.	PLASTIC, ZB5 SERIES Yellow Item No.	PLASTIC, ZB5 SERIES Blue Item No.	CHROME, ZB4 SERIES White Item No.	CHROME, ZB4 SERIES Green Item No.	CHROME, ZB4 SERIES Red Item No.	CHROME, ZB4 SERIES Yellow Item No.	CHROME, ZB4 SERIES Blue Item No.
Mounting Base, Contact Block, and LED Module											
24VAC/DC	1NC	—	—	**6HW53**	**6HW57**	—	—	—	**6HR14**	—	—
24VAC/DC	1NO	**6HW44**	**6HW48**	**6HW52**	**6HW56**	**6HW60**	**6HR05**	**6HR09**	**6HR13**	**6HR17**	**6HR21**
24VAC/DC	1NO/1NC	**6HW47**	**6HW51**	**6HW55**	**6HW59**	**6HW63**	**6HR08**	**6HR12**	**6HR16**	**6HR20**	**6HR24**
24VAC/DC	2NO	**6HW46**	**6HW50**	**6HW54**	—	—	**6HR07**	**6HR11**	**6HR15**	**6HR19**	—
120VAC	1NC	—	**6HW69**	**6HW73**	—	—	**6HR26**	**6HR30**	**6HR34**	—	—
120VAC	1NO	—	**6HW68**	**6HW72**	**6HW76**	**6HW80**	**6HR25**	**6HR29**	**6HR33**	**6HR37**	**6HR41**
120VAC	1NO/1NC	**6HW67**	**6HW71**	**6HW75**	**6HW79**	**6HW83**	**6HR28**	**6HR32**	**6HR36**	**6HR40**	**6HR44**
120VAC	2NO	—	**6HW70**	**6HW74**	—	—	**6HR27**	**6HR31**	**6HR35**	**6HR39**	—

Base 6HW48

Base 6HR08

22mm Nonilluminated Push Buttons

Schneider Electric

- No-notch mounting
- NEMA rated: 1, 2, 3, 4, 4X, 12, and 13

Plastic models are for applications that require chemical resistance and/or double electrical insulation. Contact blocks sold separately, see page 238. UL Listed, CSA Certified, and CE Certified.

Toggle

Booted

Extended Guard

Full Guard

No Guard

40mm Push-Pull

30mm Turn-to-Release

60mm Turn-to-Release

▶CHOOSE: Type of Operator	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Maintained			
2-Position Toggle Switch	Plastic, Metal	Black	**H7004**
Maintained Push			
Extended Button, Flush Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow	**H6990**
Maintained Push / Maintained Pull			
30mm dia Mushroom Head	Plastic	Black	**H7020**
40mm Mushroom Head	Plastic, Metal	Black, Blue, Green	**H6954**
40mm Mushroom Head	Plastic, Metal	Red	**H6977**
60mm Mushroom Head	Plastic, Metal	Black	**H6976**
Maintained Push / Turn To Release			
30mm dia Mushroom Head	Plastic, Metal	Black	**H6981**
40mm Mushroom Head	Plastic, Metal	Black, Yellow	**H6982**
40mm Mushroom Head	Plastic, Metal	Red	**H6983**
60mm Mushroom Head	Plastic, Metal	Black	**H6984**

▶CHOOSE: Type of Operator	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary Push			
2-Position Toggle Switch	Plastic, Metal	Black	**H7005**
30mm dia Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	**H6951**
40mm Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	**H6952**
60mm Mushroom Head	Plastic, Metal	Black, Blue, Green, Red, Yellow	**H6953**
Booted Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow	**H6995**
Extended Button, Flush Button	Plastic, Metal	Black, Blue, Green, Red, White, Yellow, Multi	**H6993**
Recessed Button	Metal	Black, Blue, Green, Red, White, Yellow	**H6999**

Type of Operator	Legend	Legend/Back Ground Color	PLASTIC Item No.	METAL Item No.
Non-Illuminated Multihead Operator				
(2) Flush Buttons	No Legend	White/Black	**23V774**	**6UDN2**
(2) Flush Buttons	No Legend	Green/Red	**6XTG3**	**6UDN3**
(2) Flush Buttons	I/O	White/Green, White/Red	**6XTG4**	**6UDN4**
(2) Flush Buttons	I/O	Black/White, White/Black	**23V775**	**23V768**
(2) Flush Buttons	No Legend	Black	**48K824**	—
(1) Extended Button, (2) Flush Buttons	Up Arrow/Down Arrow/Stop	White/Green, White/Red	**48K818**	**48K702**
(1) Extended Button, (2) Flush Buttons	Up Arrow/Down Arrow/Stop	White/Green, White/Red	—	**48K753**
(1) Extended Button, (2) Flush Buttons	Blank/Blank/Stop	Black/Red	—	**48K756**
(1) Extended Button, (1) Flush Button	No Legend	Green/Red	**23V780**	—
(1) Extended Button, (1) Flush Button	I/O	White/Green, White/Red	**6XTG5**	**6UDN6**
(1) Extended Button, (1) Flush Button	No Legend	White/Green, White/Red	—	**6UDN5**
Multihead Operators with Contacts				
(2) Flush Buttons	I/O	White/Green, White/Red	—	**48K767** *
(1) Extended Button, (1) Flush Button	I/O	White/Green, White/Red	**6UDN1** *	**6UDN0** *
Illuminated Multi-Head Operator				
(2) Flush Buttons	No Legend	Black/White, White/Black	**23V781**	—
(2) Flush Buttons	I/O	Black/White, White/Black	—	**48K711**
(2) Flush Buttons	Blank	Black	—	**48K757**
(2) Flush Buttons	No Legend	White/Green, White/Red	**23V783**	**6UDN7**
(2) Flush Buttons	I/O	White/Green, White/Red	**6XTG6**	**6XTG0**
(2) Flush Buttons	I/O	Black/White, White/Black	**23V782**	**23V772**
(2) Flush Buttons	No Legend	White/Green, White/Red	—	**23V771**
(1) Light, (2) Flush Buttons	+/-	Black/White	**48K776**	**48K657**
(1) Light, (2) Flush Buttons	Blank	Black	**48K777**	—
(1) Light, (2) Flush Buttons	Up Arrow/Down Arrow	Black/White, White/Black	**48K775**	**48K656**
(1) Extended Button, (2) Flush Buttons	Up Arrow/Down Arrow/Stop	White/Green, White/Red	**48K820**	—
(1) Extended Button, (2) Flush Buttons	Stop	White/Red	**48K823**	—
(1) Extended Button, (2) Flush Buttons	+/-/Stop	Black/White, White/Red	—	**48K755**
(1) Extended Button, (2) Flush Buttons	Up Arrow/Down Arrow/Stop	Black/White, White/Black, White/Red	**48K821**	**48K754**
(1) Extended Button, (1) Flush Button	I/O	White/Green, White/Red	—	**48K710**
(1) Extended Button, (1) Flush Button	No Legend	White/Green, White/Red	**23V784**	**6XTG1**
(1) Extended Button, (1) Flush Button	I/O	White/Green, White/Red	**6XTG7**	**6XTG2**

** Includes 1NO/1NC contact block.*

6UDN2

6UDN0

Schneider Electric

22mm 2-Head Momentary Push Buttons

- NEMA rated: 1, 2, 3, 4, 4X, 12, and 13
- IP66 and 69K

For contact blocks and lamp modules see page 238; both sold separately. UL Listed, CSA Certified, and CE Certified.

Standard Plastic

Keyed Chrome

Extended Chrome

Illuminated Chrome

Schneider Electric

22mm Selector Switches

Choose 1 selector switch and a contact block sold separately, depending on the action required (see selector codes, this page).

Keyed selector switches are keyed alike. An illuminated switch requires a lamp module and base assembly, sold separately, see page 237. UL Listed, CSA Certified, and CE Certified.

Desired Contact Configuration L	R	Mounting Position Plastic L	R	Chrome L	R	Wiring Directions 2-Position Selector Switches
Off	On	—	6HX27	—	6HR88	Wire Individually
On	Off	6HX29	—	6HR88	—	Wire Individually
On	On	6HX27	6HZ09	6HR88	6HZ09	Wire Individually

Desired Contact Configuration L	C	R	Mounting Position Plastic L	R	Chrome L	R	Wiring Directions 3-Position Selector Switches
On	Off	On	6HX27	6HZ06	6HR88	6HZ06	Wire Individually
Off	On	Off	6HX29	6HZ09	6HR90	6HZ09	Wire in Series
Off	Off	On	—	6HX27	—	6HR88	Wire Individually
On	Off	Off	6HX27	—	6HR88	—	Wire Individually
On	On	Off	6HX35	6HZ09	6HR96	6HZ09	Wire NO individually; NC in series

Position	Type of Operator	Action*	Operator Color	Key Removal	PLASTIC Mfr. Model	PLASTIC Item No.	METAL Mfr. Model	METAL Item No.
Non-Illuminated Operator								
2	Lever	M / M	Black	No Key	ZB5AD2	**6HT55**	ZB4BD2	**6HN36**
3	Lever	M / M / M	Black	No Key	ZB5AD3	**6HT60**	ZB4BD3	**6HN38**
3	Lever	M / M / S	Black	No Key	ZB5AD8	**6HT77**	ZB4BD8	**6HN43**
2	Lever	M / S	Black	No Key	ZB5AD4	**6HT64**	ZB4BD4	**6HN39**
3	Lever	S / M / M	Black	No Key	ZB5AD7	**6HT73**	ZB4BD7	**6HN42**
3	Lever	S / M / S	Black	No Key	ZB5AD5	**6HT69**	ZB4BD5	**6HN41**
2	Keyed	M / M	Black	Left	ZB5AG2	**6HT87**	ZB4BG2	**6HN50**
2	Keyed	M / M	Black	Left and Right	ZB5AG4	**6HT89**	ZB4BG4	**6HN52**
3	Keyed	M / M / M	Black	Any Position	ZB5AG0	**6HT83**	ZB4BG0	**6HN46**
3	Keyed	M / M / M	Black	Center	ZB5AG3	**6HT88**	ZB4BG3	**6HN51**
3	Keyed	M / M / M	Black	Left	ZB5AG9	**2UYW5**	ZB4BG9	**6HN57**
3	Keyed	M / M / M	Black	Left/Right	ZB5AG5	**2UYW7**	ZB4BG5	**6HN53**
3	Keyed	M / M / M	Black	Right	ZB5AG09	**2UYW6**	ZB4BG09	**6HN48**
3	Keyed	M / M / S	Black	Center	ZB5AG8	**2UYW8**	ZB4BG8	**6HN56**
3	Keyed	M / M / S	Black	Left	ZB5AG08	**2UYW9**	ZB4BG08	**6HN47**
2	Keyed	M / S	Black	Left	ZB5AG6	**6HT91**	ZB4BG6	**6HN54**
3	Keyed	S / M / M	Black	Right	ZB5AG1	**6HT86**	ZB4BG1	**6HN49**
3	Keyed	S / M / S	Black	Center	ZB5AG7	**6HT92**	ZB4BG7	**6HN55**
2	Extended Lever	M / M	Black	No Key	ZB5AJ2	**6HV18**	ZB4BJ2	**6HN80**
3	Extended Lever	M / M / M	Black	No Key	ZB5AJ3	**6HV19**	ZB4BJ3	**6HN81**
3	Extended Lever	M / M / S	Black	No Key	ZB5AJ8	**6HV23**	ZB4BJ8	**6HN85**
2	Extended Lever	M / S	Black	No Key	—	—	ZB4BJ4	**6HN82**
3	Extended Lever	S / M / M	Black	No Key	ZB5AJ7	**6HV22**	ZB4BJ7	**6HN84**
3	Extended Lever	S / M / S	Black	No Key	ZB5AJ5	**6HV21**	ZB4BJ5	**6HN83**
Illuminated Operator (Order Lamp Modules Separately)								
2	Lever	M / M	Green	—	ZB5AK1233	**6HV25**	ZB4BK1233	**6HN87**
2	Lever	M / M	Red	—	ZB5AK1243	**6HV26**	ZB4BK1243	**6HN88**
2	Lever	M / M	Yellow	—	ZB5AK1253	**6HV27**	ZB4BK1253	**6HN89**
3	Lever	M / M / M	Green	—	ZB5AK1333	**6HV30**	ZB4BK1333	**6HN92**
3	Lever	M / M / M	Red	—	ZB5AK1343	**6HV31**	ZB4BK1343	**6HN93**
3	Lever	M / M / M	Yellow	—	ZB5AK1353	**6HV32**	ZB4BK1353	**6HN94**
3	Lever	M / M / S	Red	—	ZB5AK1843	**2UYX1**	ZB4BK1843	**6HP14**
3	Lever	M / M / S	Green	—	ZB5AK1833	**6HV50**	ZB4BK1833	**6HP13**
3	Lever	M / M / S	Yellow	—	—	—	ZB4BK1853	**6HP15**
2	Lever	M / S	Yellow	—	—	—	ZB4BK1453	**6HN99**
2	Lever	M / S	Green	—	ZB5AK1433	**6HV35**	ZB4BK1433	**6HN97**
2	Lever	M / S	Red	—	—	—	ZB4BK1443	**6HN98**
3	Lever	S / M / M	Green	—	ZB5AK1733	**6HV45**	ZB4BK1733	**6HP08**
3	Lever	S / M / M	Yellow	—	—	—	ZB4BK1753	**6HP10**
3	Lever	S / M / S	Orange	—	—	—	ZB4BK1553	**6HP05**
3	Lever	S / M / S	Green	—	ZB5AK1533	**6HV40**	ZB4BK1533	**6HP03**
3	Lever	S / M / S	Red	—	ZB5AK1543	**6HV41**	ZB4BK1543	**6HP04**
3	Lever	S / M / S	Yellow	—	ZB5AK1553	**6HV42**	—	—

** M=maintained contact, S=spring return momentary contact.*

LumaPro®

Replacement Lamps for 22mm Illuminated Operators

- Incandescent
- T3-1/4 bulb shape
- Miniature bayonet base
- Fits BA9 style modules

Voltage	Trade No.	Item No.
6V AC	6VMB-1	**4VDX9**
12V AC	12VMB-1	**4VDY1**
24V AC	24VMB-1	**4VDY2**
130V AC	130VMB-1	**4VDY3**
240V AC	240V/MB-1	**5GED5**

4VDY2

Plastic

Chrome

Light Module (Quick-Connect Terminals)

Light Module (Screw Terminals)

Schneider Electric

22mm LED Pilot Lights

- NEMA 1, 2, 3, 4, 4X, 12 and 13 rated

A complete pilot light consists of a head and light module with mounting base. UL Listed, CSA Certified, and CE Certified.

Material	Lamp Module Voltage	WHITE Item No.	GREEN Item No.	RED Item No.	YELLOW Item No.	BLUE Item No.
Pilot Light Head						
Plastic	—	**6HW15**	**6HW17**	**6HW19**	**6HW21**	**6HW23**
Chrome	—	**6HP75**	**6HP77**	**6HP79**	**6HP81**	**6HP83**
Pilot Light Lens						
Plastic	—	—	**6YEN8**	**6YEP0**	—	—
Lamp Module With Bulb						
Chrome	24 to 120V AC/DC	**2UYY2**	**2UYY3**	**2UYY4**	**2UYY5**	**2UYY6**
Chrome	24V AC/DC	**6HP88**	**6HP89**	**6HP90**	**6HP91**	**6HP92**
Plastic	24V AC/DC	**6HT43**	**6HW28**	**6HW29**	**6HW30**	**6HW31**
Chrome	120V AC	**6HP93**	**6HP94**	**6HP95**	**6HP96**	**6HP97**
Plastic	120V AC	**6HW32**	**6HW33**	**6HW34**	**6HW35**	**6HW36**

6HZ06

6HR88

6HX27

Schneider Electric

Contact Blocks for 22mm Operators

- Rated 10A continuous

Description	Base Only Item No.	1NO Item No.	1NC Item No.	2NO Item No.	2NC Item No.	1NC/1NO Item No.
Add On Block For ZB4 and ZB5 Operators	—	**6HZ06**	**6HZ09**	**6HZ12**	**6HZ13**	**6HZ14**
Contact Block with Mounting Base for Chrome ZB4 Operators	—	**6HR88**	**6HR90**	**6HR92**	**6HR94**	**6HR96**
Contact Block with Mounting Base for Plastic ZB5 Operators	—	**6HX27**	**6HX29**	**6HX31**	**6HX33**	**6HX35**
Metal Mounting Base For ZB4	**6HR86**	—	—	—	—	—
Plastic Mounting Base For ZB5 and Plug In Connectors	**6HX25**	**6HX28**	—	—	—	—

22mm Nonilluminated Selector Switches

Black knob. Keyed operators are keyed alike. Contact blocks sold separately, this page. UL Listed and CSA Certified.

49A832

Position	Action	Bezel Material	Key Removal	Cam	Mfr. Model	Item No.
Knob						
2	Maintained / Maintained	Metal	No Key	D	P9M-SMD0N	**6AMK8**
2	Maintained / Maintained	Metal	No Key	I	P9M-SMI0N	**6AMN1** *
3	Momentary / Maintained / Momentary	Metal	No Key	Z	P9M-SMZ5N	**6AMN3**
4	Maintained / Maintained / Maintained / Maintained	Metal	No Key	X	P9M-SMX0N	**49A832**
Keyed						
2	Maintained / Maintained	Metal	Left and Right	D	P9M-SCD0K95	**6AMK7**
2	Maintained / Maintained	Metal	Left	D	P9M-SCD0A95	**6AMP5**
3	Momentary / Maintained / Maintained	Plastic	Left	Z	P9M-SCZ5A95	**6AMP6**

*** Operates from center to right, 45° travel.***

22mm Illuminated Push-Button Operators

- LED lamp modules
- NEMA rated 1, 3, 3R, 4, 4X, 12, and 13
- Type C-2000

Round shape. Contact Blocks and Lamp Modules available separately. UL Listed and CSA Certified.

H7058

Type of Operator	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary				
No Guard	120V AC, 24V AC/DC	Plastic, Metal	Blue, Red, Green, Yellow, White, Orange	**H7058**
40mm Mushroom Head	120V AC, 24V AC/DC	Metal	Red, Green, Yellow, Blue, White, Orange	**H7057**
Maintained Push / Pull				
40mm Mushroom Head	120V AC, 24V AC/DC	Metal	Red, Green, Yellow, Blue, White, Orange	**H7056**

22mm Nonilluminated Push-Button Operators

- NEMA rated 1, 3, 3R, 4, 4X, 12, and 13
- Type C-2000

Round shape. Contact blocks available separately. UL Listed and CSA Certified.

H7001

▶CHOOSE: Type of Operator	▶CHOOSE: Contact Form	▶CHOOSE: Basic Material	▶CHOOSE: Color	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull				
40mm Mushroom Head	—	Metal	Red	**6AMK2**
Momentary Push				
Flush Button, Extended Button	—	Plastic, Metal	Green, Yellow, Blue, White, Black, Red	**H7001**
Flush Button, Extended Button	1NC, 1NO	Metal	Red, Green, Yellow, Blue, White, Black	**H7078**
Flush Button, Extended Button	1NO/1NC	Metal	Red, Green, Yellow, Blue, White, Black	**H7081**
40mm Mushroom Head	—	Metal	Red	**H7016**
Maintained Push / Turn To Release				
40mm Mushroom Head	—	Plastic	Red	**6AMP1**
40mm Mushroom Head	1NC	Plastic	Red	**49A602**
Maintained Push / Maintained Pull				
40mm Mushroom Head	—	Metal	Red	**H6979**
Maintained Push / Key Release				
40mm Mushroom Head	—	Metal	Red	**6AMJ7**

Contact Blocks for 22mm Operators

6AMJ6

- 10A, 600V

For use with GE operators. UL Listed and CSA Certified.

Contact Form	Terminal Connec.	Mfr. Model	Item No.
1NC	Quick-Connect	P9B-01FN	**6AMJ0**
1NC/1NO	Screw	P9B-11VN	**6AMJ6**
1NO	Screw	P9B-10VN	**6AMJ5**
1NO	Quick-Connect	P9B-10FN	**6AMJ3**
1NO	Quick Connect	P9B-10FN-AA	**6AMJ4**
2NC	Screw	P9B-02VN	**6AMJ2**
Accessory/Modification Kit			
Printed Circuit Board Adapter, Pkg. of 5		P9A-CA6	**6AMH8**

22mm Multihead and Joystick Operators

- Plastic construction
- Momentary operation

Plastic construction. Contact blocks and lamp modules both sold separately. UL Listed and CSA Certified.

6AML0

6AMP4

Type of Operator	Legend	WHITE/GREEN, WHITE/RED Mfr. Model	WHITE/GREEN, WHITE/RED Item No.	WHITE/BLACK, WHITE/RED Mfr. Model	WHITE/BLACK, WHITE/RED Item No.
Illuminated Multi-Head Operator					
(2) Flush Buttons	No Legend	MPD1-11C & MCBH-00	**6AML0**	—	—
(2) Flush Buttons	I/O	P9M-PLVRG01	**6AML1**	—	—
(1) Extended Button, (1) Flush Button	No Legend	MPD12-11C & MCBH-00	**49A846**	—	—
(1) Extended Button, (1) Flush Button	I/O	MPD13-11C + MCBH-00	**49A847**	—	—
Joystick Operator					
5 Positions, 4 Directions	—	—	—	MJS6-40B	**6AMP4**

22mm LED Pilot Lights

- NEMA rated 4X

Rated for 100,000-hr. operation. Pilot light heads require lamp modules sold separately at Grainger.com®. All are UL Listed, CSA Certified.

49A805

49A676

Voltage	Lamp Type	PLASTIC Blue Item No.	PLASTIC Green Item No.	PLASTIC Red Item No.	METAL Blue Item No.	METAL Green Item No.	METAL Orange Item No.	METAL Red Item No.	METAL White Item No.	METAL Yellow Item No.
Pilot Lights										
24V AC/DC	Refracted LED	**49A710**	**49A708**	**49A707**	—	—	**49A706**	—	**49A705**	**49A703**
24V AC/DC	Diffused LED	—	—	—	**49A679**	**49A677**	**49A681**	**49A676**	**49A680**	**49A678**
120V AC	Refracted LED	—	**49A720**	**49A719**	**49A716**	—	**49A718**	—	**49A717**	**49A715**
120V AC	Diffused LED	—	**49A695**	—	**49A691**	—	**49A693**	**49A688**	**49A692**	**49A690**
Pilot Light Heads (Lamp Module Sold Separately)										
—	LED	—	—	—	**49A807**	**49A805**	**49A809**	**49A804**	**49A808**	**49A806**
—	LED	—	—	—	**49A819**	**49A817**	**49A821**	**49A816**	**49A820**	**49A818**

Indicator Lights

Nylon bodies include self-locking ears. For use in machine and equipment control panels.

Note: LED flat versions are available in blue and white on Grainger.com®.

Item	Voltage	Mounting Dia.	Electrical Connection	RED Item No.	YELLOW Item No.	GREEN Item No.
Incandescent, Nylon Body With Polycarbonate Lens and Stainless Steel Bezel						
Flush	12V AC/DC	½ in Mounting dia	6 in Wire Leads	20C840	—	—
Flush	24V AC/DC	½ in Mounting dia	6 in Wire Leads	20C841	—	—
Raised	12V AC/DC	½ in Mounting dia	6 in Wire Leads	20C844	—	—
Raised	24V AC/DC	½ in Mounting dia	6 in Wire Leads	20C845	20C842 *	20C843
Raised	24V AC/DC	½ in Mounting dia	0.187 in Tab	20C846	—	—
LED, Brass Plated Chrome, Plastic (ABS)						
Flat	12V DC	6mm Mounting dia	Lead for Soldering	24M032	24M033	24M034
Flat	12V DC	8mm Mounting dia	Male .110 Connector	24M060	24M061	24M062
Flat	12V DC	10mm Mounting dia	Male .110 Connector	24M093	24M094	24M095
Flat	12V DC	12mm Mounting dia	Male .110 Connector	24M127	24M128	24M129
Flat	12V DC	16mm Mounting dia	Male .110 Connector	24M163	24M164	24M165
Flat	24V DC	6mm Mounting dia	Lead for Soldering	24M037	24M038	24M039
Flat	24V DC	8mm Mounting dia	Male .110 Connector	24M065	24M066	24M067
Flat	24V DC	10mm Mounting dia	Male .110 Connector	24M098	24M099	24M101
Flat	24V DC	12mm Mounting dia	Male .110 Connector	24M132	24M133	24M134
Flat	24V DC	16mm Mounting dia	Male .110 Connector	24M168	24M169	24M170
Flat	110V AC	8mm Mounting dia	Male .110 Connector	24M070	24M071	24M072
Flat	110V AC	10mm Mounting dia	Male .110 Connector	24M104	24M105	24M106
Flat	110V AC	12mm Mounting dia	Male .110 Connector	24M137	24M138	24M139
Flat	110V AC	16mm Mounting dia	Male .110 Connector	24M173	24M174	24M175
Protruding	12V DC	6mm Mounting dia	Lead for Soldering	24M026	24M027	24M028
Protruding	12V DC	8mm Mounting dia	Male .110 Connector	24M051	24M052	24M053
Protruding	12V DC	10mm Mounting dia	Male .110 Connector	24M084	24M085	24M086
Protruding	12V DC	12mm Mounting dia	Male .110 Connector	24M118	24M119	24M120
Protruding	12V DC	16mm Mounting dia	Male .110 Connector	24M154	24M155	24M156
Protruding	24V DC	6mm Mounting dia	Lead for Soldering	24M029	24M030	24M031
Protruding	24V DC	8mm Mounting dia	Male .110 Connector	24M054	24M055	24M056
Protruding	24V DC	10mm Mounting dia	Male .110 Connector	24M087	24M088	24M089
Protruding	24V DC	12mm Mounting dia	Male .110 Connector	24M121	24M122	24M123
Protruding	24V DC	16mm Mounting dia	Male .110 Connector	24M157	24M158	24M159
Protruding	110V AC	8mm Mounting dia	Male .110 Connector	24M057	24M058	24M059
Protruding	110V AC	10mm Mounting dia	Male .110 Connector	24M090	24M091	24M092
Protruding	110V AC	12mm Mounting dia	Male .110 Connector	24M124	24M125	24M126
Protruding	110V AC	16mm Mounting dia	Male .110 Connector	24M160	24M161	24M162
Round	12V DC	6mm Mounting dia	Lead for Soldering	24M020	24M021	24M022
Round	12V DC	8mm Mounting dia	Male .110 Connector	24M042	24M043	24M044
Round	12V DC	10mm Mounting dia	Male .110 Connector	24M075	24M076	24M077
Round	12V DC	12mm Mounting dia	Male .110 Connector	24M109	24M110	24M111
Round	12V DC	16mm Mounting dia	Male .110 Connector	24M145	24M146	24M147
Round	24V DC	6mm Mounting dia	Lead for Soldering	24M023	24M024	24M025
Round	24V DC	8mm Mounting dia	Male .110 Connector	24M045	24M046	24M047
Round	24V DC	10mm Mounting dia	Male .110 Connector	24M078	24M079	24M080
Round	24V DC	12mm Mounting dia	Male .110 Connector	24M112	24M113	24M114
Round	24V DC	16mm Mounting dia	Male .110 Connector	24M148	24M149	24M150
Round	110V AC	8mm Mounting dia	Male .110 Connector	24M048	24M049	24M050
Round	110V AC	10mm Mounting dia	Male .110 Connector	24M081	24M082	24M083
Round	110V AC	12mm Mounting dia	Male .110 Connector	24M115	24M116	24M117
Round	110V AC	16mm Mounting dia	Male .110 Connector	24M151	24M152	24M153
Neon, Nylon Body With Polycarbonate Lens						
Miniature Flush	120V AC	5⁄16 in Mounting dia	6 in Wire Leads	20C859	20C857 *	20C858
Neon, Nylon Body With Polycarbonate Lens and Stainless Steel Bezel						
Flush	120V AC	½ in Mounting dia	6 in Wire Leads	20C849	20C847 *	20C848
Raised	120V AC	½ in Mounting dia	0.187 in Tab	20C855	—	20C852
Raised	120V AC	½ in Mounting dia	6 in Wire Leads	20C854	20C850 *	20C851
Raised	240V AC	½ in Mounting dia	6 in Wire Leads	20C856	—	20C853

** Amber color.*

Dayton

LED Indicator Lights

Nylon body with polycarbonate lens. UL Listed.

Voltage	RED Item No.	GREEN Item No.	AMBER Item No.
½ in Mounting dia Flush, 6 in Wire Leads			
12V AC/DC	22NY41	—	—
24V AC/DC	22NY44	—	—
120V AC/DC	22NY49	22NY52	22NY54
½ in Mounting dia Raised, 0.187 in Tab			
24V AC/DC	22NY43	—	—
120V AC/DC	22NY48	22NY51	—
½ in Mounting dia Raised, 6 in Wire Leads			
12V AC/DC	22NY40	—	—
24V AC/DC	22NY42	22NY45	22NY46
120V AC/DC	22NY47	22NY50	22NY53
240V AC/DC	22NY55	22NY56	—
8mm Mounting dia Flush, 0.110 in Tab			
6V AC/DC	22NY69	22NY68	22NY70
12V AC/DC	22NY72	—	22NY73
24V AC/DC	22NY75	22NY74	—
120V AC/DC	22NY78	22NY77	22NY79
240V AC/DC	22NY81	22NY80	22NY82

Voltage	RED Item No.	GREEN Item No.	AMBER Item No.
12mm Mounting dia Raised, M2.5 Screw			
6V AC/DC	22NY84	—	22NY85
12V AC/DC	22NY87	22NY86	22NY88
24V AC/DC	22NY90	22NY89	—
120V AC/DC	22NY93	22NY92	22NY94
240V AC/DC	22NY96	22NY95	22NY97
18mm Mounting dia Raised, 0.187 in Tab			
120V AC	22NY60	22NY61	22NY63
240V AC	22NY64	22NY65	22NY67
22mm Mounting dia Raised, M3.5 Screw			
24V AC/DC	22NZ01	22NY98	22NZ03
120V AC	22NZ06	22NZ04	22NZ08
240V AC	22NZ11	22NZ09	22NZ13

Schneider Electric

Enclosures for 22mm Operators

- Plastic NEMA rated 1, 4X, 12, 13
- Metal NEMA rated 4, 13

6HK19

4B588

No. of Holes	Material	Contact Block Depth	Conduit Size	H	W	D	Item No.
1	Plastic	—	—	2.68 in	2.68 in	2 in	6HK19
1	Metal	1.93 in	¾ in	2.03 in	3.15 in	3.15 in	4B588
1	Metal	2.93 in	¾ in	3.03 in	3.15 in	3.15 in	4B589
2	Plastic	—	½ in	4.1 in	2.68 in	2 in	6HK20
2	Metal	1.93 in	¾ in	2.03 in	3.15 in	5.12 in	4B590
2	Metal	2.93 in	¾ in	3.03 in	3.15 in	5.12 in	4B591
3	Plastic	—	½ in	5.27 in	2.68 in	2 in	6HK21
3	Metal	1.93 in	¾ in	2.03 in	3.15 in	6.9 in	4B592
3	Metal	2.93 in	¾ in	3.03 in	3.15 in	6.9 in	4B593
4	Plastic	—	½ in	6.46 in	2.68 in	2 in	6HK22
4	Metal	1.93 in	¾ in	6.9 in	3.15 in	2.03 in	2UYY7
4	Metal	2.93 in	¾ in	3.03 in	3.15 in	8.66 in	4B594
5	Plastic	—	½ in	7.72 in	2.68 in	2 in	6HK23
5	Metal	2.93 in	¾ in	12.2 in	3.35 in	3.03 in	2UYY8
Contact Blocks and Accessories							
Blanking Plug, Closes 22mm Hole, Gray, Nonmetallic							6HX77
Contact Block, 1NC For Use With Schneider Empty Enclosure							6JC92
Contact Block, 1NO For Use With Schneider Empty Enclosure							6JC91

HUBBELL® WIEGMANN®

Oiltight Enclosures for 22mm Operators

- NEMA rated 12 and 13
- JIC Standard EL-1-71

2VB59

2VB64

Neoprene gasket and mounting flange ensure oiltight seal. Captive cover screws are threaded into deep-well hubs. Carbon steel with ANSI 61 gray polyester powder-coated finish. Seam welded and ground smooth. Grounding stud included. UL Listed and CSA Certified.

No. of Holes	No. of Columns	H	W	D	Mfr. Model	Item No.
1	1	3.25 in	2.75 in	3.5 in	PBGX1	2VB59
2	1	5.13 in	2.75 in	3.5 in	PBGX2	2VB60
3	1	7 in	2.75 in	3.5 in	PBGX3	2VB61
4	1	8.88 in	2.75 in	3.5 in	PBGX4	2VB62
6	2	8.5 in	5 in	4.25 in	PBGX6	2VB63
9	3	8.5 in	6.5 in	4.25 in	PBGX9	2VB64

2HRW6

Enclosures for 22mm Operators

Plastic enclosures are made of impact- and corrosion-resistant Valox® crystalline thermoplastic polyester. Molded internal bosses for back panel, component mounting, and DIN rails. Silicone gasket; no hinge. Cover and base meet with tongue-and-groove design for tight seal. Include nonmetallic cover screws. UL Listed and CSA Certified. Plastic enclosures are rated IP66.

No. of Holes	No. of Columns	H	W	D	Item No.
Plastic					
1	1	4.02 in	2.84 in	3.31 in	2HRW1
2	1	4.69 in	2.72 in	2.72 in	2HRW2
3	1	6.38 in	2.84 in	3.31 in	2HRW3
4	1	8.74 in	2.84 in	3.31 in	2HRW4
6	2	6.65 in	4.69 in	4.72 in	2HRW5
9	3	6.65 in	6.65 in	4.72 in	2HRW6

NEMA 4X Push-Button Pendant Stations

- NEMA 4X Push-Button Pendant Stations

Ergonomical design for one-handed operation. These stations feature high-impact ABS enclosure, 2-pc. design for easy wiring with shock- and vibration-resistant construction. Ideal for overhead cranes and hoists, conveyor/elevator control, assembly lines, workstations, and monorail control. UL and C-UL Listed.

No. of Operators	Action	No. of Speeds	Mechanical Interlock	1NO Mfr. Model	1NO Item No.	1NO/1NC Mfr. Model	1NO/1NC Item No.
Up/Down Legend							
2	Mom.	1	No	CPC02-C00-000A	**30PL52**	—	—
	Mom.	1	Yes	CPA02-A4C-000A	**30PL73**	—	—
	Mom.	1	Yes	CPE02-C00-000A	**30PL75**	—	—
	Mom.	2	Yes	CPE02-D00-000A	**30PL74**	—	—
User Configurable Legend							
2	Main.	1	No	—	—	CPH02-B00-000A	**30PL54**
	Mom.	1	No	—	—	CPH02-A00-000A	**30PL53**
	Mom.	1	Yes	CPH02-C02-000A	**30PL55**	—	—
	Mom.	2	Yes	CPH02-D00-000A	**30PL56**	—	—
4	Main. / Mom.	1	Yes	—	—	CPH04-B1C-000A	**30PL58**
	Main. / Mom.	2	Yes	—	—	CPH04-B1D-000A	**30PL59**
	Mom. / Mom.	1	Yes	CPH04-C1C-000A	**30PL60**	CPH04-A1C-000A	**30PL57**
	Mom. / Mom.	2	Yes	CPH04-D1D-000A	**30PL61**	—	—
6	Main. / Mom. / Mom.	1	Yes	—	—	CPH06-B2C-000A	**30PL63**
	Main. / Mom. / Mom.	2	Yes	—	—	CPH06-B2D-000A	**30PL65**
	Mom. / Mom. / Mom.	1	Yes	CPH06-C2C-000A	**30PL66**	CPH06-A2C-000A	**30PL62**
	Mom. / Mom. / Mom.	2	Yes	CPH06-D2D-000A	**30PL67**	CPH06-A2D-000A	**30PL64**
8	Main. / Mom. / Mom. / Mom.	1	Yes	—	—	CPH08-B3C-000A	**30PL69**
	Main. / Mom. / Mom. / Mom.	2	Yes	—	—	CPH08-B3D-000A	**30PL71**
	Mom. / Mom. / Mom.	1	Yes	—	—	CPH08-A3C-000A	**30PL68**
	Mom. / Mom. / Mom. / Mom.	1	Yes	CPH08-C3C-000A	**30PL72**	—	—
	Mom. / Mom. / Mom. / Mom.	2	Yes	—	—	CPH08-A3D-000A	**30PL70**

30PL75

30PL54

20C813

20C806

Pendant Stations

- 600VAC/DC UL Listed. CSA and CE Certified.

Legend	No. of Operators	Contact Form	Housing Color	NEMA Rating	H	W	D	Item No.
Momentary with Nylon Cord Grip (0.375" to 0.625" Cord dia.)								
Start/Stop	2	1NO/1NC	Yellow	4X	7.56 in	1.73 in	2.83 in	**20C815**
Up/Down	2	2NO	Yellow	4X	7.56 in	1.73 in	2.83 in	**20C814**
Momentary, ½" 14 NPT Entrance								
Forward/Reverse	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C806**
Start/Stop	2	1NO/1NC	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C808**
Up/Down	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C809**
Up/Down	2	2NO	Red	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C810**
Up/Down	2	2NO	Black	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C811**
Up/Down	2	2NO	Yellow	1, 3, 3R, 4, 4X	8 in	2.19 in	2.98 in	**20C812**
Up/Down	2	2NO	Yellow	4, 4X, 5	9.25 in	2.08 in	2.91 in	**20C813**
User Configurable	2	2NO/2NC	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C804**
User Configurable	2	2NO	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C805**
Maintained, ½" 14 NPT Entrance								
On/Off	2	1NO/1NC	Yellow	1, 3, 3R, 4, 4X	4.62 in	2.19 in	2.98 in	**20C807**
Contact Blocks								
1 Speed	—	1NO	—	—	—	—	—	**20C816**
1 Speed	—	1NC	—	—	—	—	—	**20C817**

5FTP6

5FTP7

Push-Button Pendant Stations—Assembled

- NEMA rated 1, 3, 3R, 4, 4X, and 13 plastic enclosures
- ½" conduit entry
- 5A contact rating

Include strain relief. 600VAC/DC max. Rated NEMA B600-P600. UL Listed, CSA Certified, and CE Certified.

Legend	Type of Operator	Contact Form	Mechanical Interlock	Housing Color	Mfr. Model	Item No.
Up/Down	Push Button	2NO	Yes	Black	9001BW92B	**5FTP5**
Up/Down	Push Button	2NO	Yes	Red	9001BW92R	**5FTP6**
Up/Down	Push Button	2NO	Yes	Yellow	9001BW92Y	**5FTP7**
Start/Stop	Push Button	1NO/1NC	No	Yellow	9001BW95Y	**5FTP8**
Start/Stop	Push Button	2NO	Yes	Yellow	9001BW96Y	**12N831**
Forward/Reverse	Push Button	2NO	Yes	Yellow	9001BW93Y	**5FTP9**
On/Off	Push Button	1NO/1NC	Yes	Yellow	9001BW94Y	**5FTR0**
User Configurable	Push Button	2NO	Yes	Yellow	9001BW90YU	**12N832**
User Configurable	Push Button	2NO/2NC	No	Yellow	9001BW91YU	**5FTR1**
User Configurable	Push Button	2NO	Yes	Yellow	9001BW100YU	**5FTR2**

Push-Button Pendant Stations

Come unassembled, except for 2-button pendant stations 2EV30 and 2EV31. UL Listed, CSA Certified, and CE Certified.

30MM

- NEMA rated 1, 3, 4, 4X, and 13 plastic enclosures
- ¾" NPT conduit entry

Use with any 30mm corrosion-resistant, nonilluminated operators. Interlocked push buttons include contact blocks; rated NEMA A-600.

22MM

- NEMA Type 1, 4, 4X, and 5 plastic enclosures
- 8 to 26mm cable entry

Use with a variety of 22mm corrosion-resistant, nonmetallic, nonilluminated operators. Contact blocks; rated NEMA A-600, Q-150DN.

30mm Enclosure 2ER81

Description	Mfr. Model	Item No.
30mm Components		
2-Hole Enclosure	9001SKYP2	**2ER80**
4-Hole Enclosure	9001SKYP4	**2ER81**
6-Hole Enclosure	9001SKYP6	**2ER82**
8-Hole Enclosure	9001SKYP8	**2ER83**
10-Hole Enclosure	9001SKYP10	**2ER79**
2 Momentary Push Buttons, 2 NO, Interlocked	9001SKRU1	**2ER60**
2 Maintained Push Buttons, 1 NO, 1 NC, Interlocked	9001SKRU11	**2ER62**
2 Maintained Push Buttons, Interlocked w/o Contacts, Universal Color, Includes Black, Red, Green, Yellow, Orange, Blue and White	9001KR11U	**H5315**
2 Momentary Push Buttons, 2 NO, Interlocked 2-Speed	9001SKRU2	**2ER63**
2 Momentary Push Buttons, 2 NO, Interlocked 5-Speed	9001SKRU5	**2ER66**
Legend Plate (Hoist Up/Down)	9001SKN201	**2ER36**
22mm Components		
2-Hole Enclosure	XACA02H7	**2EV25**
3-Hole Enclosure	XACA03H7	**24J875**
4-Hole Enclosure	XACA04H7	**2EV26**
6-Hole Enclosure	XACA06H7	**2EV27**
8-Hole Enclosure	XACA08H7	**2EV28**
12-Hole Enclosure	XACA12H7	**2EV29**
Push Buttons, Booted Single Black Button	XACA9412	**2EV34**
1 NO/Spring Return/1 Speed Contact Block	ZB2BE101	**4B696**
1 NC/Spring Return/1 Speed Contact Block	ZB2BE102	**4B699**
1 NO Early Close + 1 NC and 1 NO/Spring Return/2 Speed Contact Block	XENG1191	**2EW17**
Interlock for Contact Block	XACA009	**2EV24**
22mm Assembled Pistol Grip Pendant Station		
2 Button, Up/Down, 2NO	XACA201	**2EV30**
2 Button, Up/Down, 1NO/1NC	XACA205	**2EV31**

22mm Enclosure 2EV30

NEMA Type 4X Pendant Stations

- Rated 6A at 120V and 3A at 240V
- Max. voltage: 240V

Nylon cord grip and sealing ring keep out dust and moisture. Momentary operation; for control circuit operation of electric motor hoists and other machinery. 5C317 has mechanical interlock to prevent activating both buttons simultaneously. 9.2"L x 1.1"W x 2.4"D. UL Listed and CSA Certified.

Legend	Type of Operator	Contact Form	Housing Color	Mfr. Model	Item No.
Up/Down	Push Button	2NO	Yellow	CPB21	**5C317**
Start/Stop	Push Button	1NO/1NC	Yellow	CPB20	**3D319**

5C317

NEMA 1
2EK13

NEMA 4
2EK34

NEMA 1, 3, 4, and 13
2NMC8

Assembled Control Stations

SQUARE D by Schneider Electric

- Metal NEMA enclosures
- 600VAC/DC max.

Surface-mount stations for use with magnetic motor starters to control functions of electric motors. Not for direct starting or stopping of motors. UL Listed.

NEMA 1 AND NEMA 4 (INDOOR)

Contact blocks rated 0.6A at 600VAC, 0.75A at 480VAC, 1.5A at 240VAC, 3.75A at 120VAC. Grainger 2XV series are also CSA Recognized, CE Certified, and NEMA B600-P600.

NEMA 1, 3, 4, AND 13

Contact blocks rated 1.2A at 600VAC, 1.5A at 480VAC, 3A at 240VAC, 6A at 120VAC.

				NEMA RATING 1			NEMA RATING 4			NEMA RATING 1, 13, 3, 4		
No. of Operators	Legend	Type of Operator	Action*	Contact Form	Mfr. Model	Item No.	Contact Form	Mfr. Model	Item No.	Contact Form	Mfr. Model	Item No.
1	Emergency Stop	Mushroom Head	Push / Pull	—	—	—	1NC	9001KYG1Y1	**5GEL0**	—	—	—
1	Emergency Stop	Mushroom Head	Twist-to-Release	—	—	—	1NC	9001KYG1Y2	**5GEL1**	—	—	—
1	Hand/Off/Auto	Selector Switch	M	2NO	9001BG112	**2EK12**	—	—	—	1NO/1NC	9001KYK111	**2NMC5**
1	Off/On	Selector Switch	M	1NO/1NC	9001BG111	**2XVF6**	—	—	—	1NO/1NC	9001KYK110	**2NMC4**
1	Start	Push Button	S	1NO	9001BG101	**2XVF3**	—	—	—	1NO/1NC	9001KYK11	**2NMC3**
1	Stop	Mushroom Head	S	1NC	9001BG103	**2XVF5**	—	—	—	1NO/1NC	9001KYK14	**2NMC7**
1	Stop	Push Button	S	—	—	—	—	—	—	1NO/1NC	9001KYK13	**2NMC6**
2	For/Rev	Push Buttons	S / S	2NO	9001BG206	**2EK16**	2NO	9001BW242	**2XVG7**	—	—	—
2	Open/Close	Push Buttons	S / S	2NO	9001BG207	**2XVF8**	2NO	9001BW244	**2XVG8**	2NO/2NC	9001KYK26	**2NMD4**
2	Raise/Lower	Push Buttons	S / S	2NO	9001BG209	**2XVF9**	—	—	—	—	—	—
2	Start/Stop	Push Buttons	M / M	2NO	9001BG215	**2EK19**	2NO	9001BW255	**2XVH2**	1NO/1NC	9001KYK27	**2NMD5**
2	Start/Stop	Push Buttons	S / S	1NO/1NC	9001BG204	**2XVF7**	1NO/1NC	9001BW241	**2EK35**	2NO/2NC	9001KYK23	**2NMD1**
2	Start/Stop	Mushroom Head	S / S	1NO/1NC	9001BG203	**2EK14**	1NO/1NC	9001BW250	**2XVG9**	2NO/2NC	9001KYK22	**2NMC9**
2	Start/Stop	Push Buttons	S / S	1NO/1NC	9001BG201	**2EK13**	1NO/1NC	9001BW240	**2EK34**	2NO/2NC	9001KYK21	**2NMC8**
2	Up/Down	Push Buttons	S / S	2NO	9001BG208	**2EK17**	2NO	9001BW243	**2EK36**	2NO/2NC	9001KYK25	**2NMD3**
3	Forward/ Reverse/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG302	**2EK22**	—	—	—	3NO/3NC	9001KYK31	**2NMD6**
3	Open/Close/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG303	**2EK23**	—	—	—	3NO/3NC	9001KYK33	**2NMD8**
3	Raise/Lower/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG304	**2XVG2**	—	—	—	—	—	—
3	Start/Jog/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG316	**2XVG3**	—	—	—	—	—	—
3	Up/Down/Stop	Push Buttons	S / S / S	2NO/3NC	9001BG305	**2EK24**	—	—	—	3NO/3NC	9001KYK32	**2NMD7**

** M = maintained contact, S = spring return momentary contact.*

20C797

Dayton®

Control Stations

- 600VAC/DC
- Surface mount

No. of Operators	Legend	Contact Form	NEMA Rating	H	W	D	Item No.
Momentary							
3	Forward/Reverse/Stop	1NC, 2NO/2NC	1	2.19 in	3.69 in	2.06 in	**20C796**
2	Open/Close	2NO	1	2.19 in	3.69 in	2.06 in	**20C792**
3	Open/Close/Stop	1NC, 2NO/2NC	1	2.19 in	5 in	2.06 in	**20C797**
3	Raise/Lower/Stop	1NC, 2NO/2NC	1	2.19 in	5 in	2.06 in	**20C798**
2	Start/Stop	1NO/1NC	1	2.34 in	3.69 in	2.06 in	**20C794**
2	Start/Stop	1NO/1NC	4	3.27 in	2.75 in	2.76 in	**20C801**
2	Start/Stop	1NO/1NC	4	3.27 in	2.75 in	2.76 in	**20C802** *
2	Up/Down	2NO	1	2.19 in	3.69 in	2.06 in	**20C795**
2	Up/Down	2NO	4	3.27 in	2.75 in	2.76 in	**20C803**
3	Up/Down/Stop	1NC, 2NO/2NC	1	2.19 in	3.69 in	2.06 in	**20C799**
Maintained							
1	Hand/Off/Auto	2NO	1	2.19 in	3.69 in	2.06 in	**20C789**
2	Start/Stop	1NO/1NC	1	2.19 in	3.69 in	2.06 in	**20C793**

** Lockout on stop.*

NEMA 4X
6EXD1

30mm Control Stations

SIEMENS

UL Listed and CSA Certified.

No. of Operators	Legend	Type of Operator	Contact Form	NEMA Rating	Item No.
Maintained					
1	Hand/Off/Auto	3-Position Selector Switch	1NO/1NC	4X	**6EXC5**
1	Off/On	2-Position Selector Switch	1NO/1NC	4X	**6EXC9**
Momentary					
1	Start	Flush Button	1NO/1NC	4X	**6EXC6**
1	Stop	Raised Button	1NO/1NC	4X	**6EXC7**
1	Stop	Push Button with Mushroom Head	1NO/1NC	4X	**6EXC8**
Momentary / Momentary					
2	Up/Down	Flush Button/Flush Button	1NO/1NC	4X	**6EXD0**
2	Start/Stop	Flush Button/Raised Button	2NO/2NC	4X	**6EXD1**
Momentary / Momentary / Momentary					
3	Forward/Reverse/Stop	Flush Button/Raised Button	1NO/1NC	4X	**6EXD2**
3	Open/Close/Stop	Flush Button/Raised Button	1NO/1NC	4X	**6EXD3**
3	Up/Down/Stop	Flush Button/Raised Button	1NO/1NC	4X	**6EXD4**

2AV95

2AY16

Hazardous Area Control Stations

HUBBELL KILLARK®

- For locations defined as hazardous in NEC Class I, Div. 1 or 2; Class II; or Class III, Div. 1 or 2
- Cast-aluminum cover and body
- Stainless steel bolts are captivated to prevent loss

For use in areas where flammable gases or combustible dusts may exist. Raintight NEMA 3 factory-sealed sealing plate has a molded gasket and is attached to the operator cover for easy wiring and assembly. UL Listed and CSA Certified.

Note: 2AV81, 2AV91, 2AY16, and 2AV85 are not for direct starting or stopping of motors. 2AV95, 2AV98, 2AY11, and 2AY14 are used to start and stop small horsepower electric motors.

			HUB SIZE ½ in		HUB SIZE ¾ in	
Legend	Contact Form	Amps	Mfr. Model	Item No.	Mfr. Model	Item No.
Toggle						
On/Off	1-Pole	20 A	FXS-41C	**2AV95**	FXS-51C	**2AV98**
Start/Stop	2-Pole	20 A	—	—	FXSX52	**2AY11**
Start/Stop	3-Pole	20 A	—	—	FXSX53	**2AY14**
Push Button						
Blank	2NO/2NC	10A @ 600V AC, 2.5A @ 250V DC	FXCS-4B7	**2AV81**	FXCS-5B7	**2AV91**
Start/Stop	1NO/1NC	10A @ 600V AC, 2.5A @ 250V DC	FXCS-4B4	**2AY16**	FXCS-5B4	**2AV85**

Find more Dayton® 30mm Operators and Accessories at Grainger.com®.

Dayton

30mm Nonilluminated Push Buttons—Complete Units

- NEMA 4 and 13 rated

Direct-acting operation. UL Listed. CSA and CE Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Head Material	Contact Form	Item No.
Momentary Push				
Flush Button; Extended Button	Red; Green; Universal; Black	Metal	1NO/1NC	**H7067**
		Plastic	1NO/1NC	**H7071**
57mm Mushroom Head; 40mm Mushroom Head	Green; Black; Red	Metal; Plastic	1NC	**H7085**
Maintained Push / Maintained Pull				
40mm Mushroom Head	Red; Green; Black	Metal; Plastic	1NO/1NC	**H7094**

H7067

H7071

Dayton

30mm Selector Switches, Complete Units

- NEMA 4 and 13 rated

Include operator, key, and contact block. UL Listed. CSA and CE Certified.

Position	Action*	Contact Form	Cam	Key Removal	Switch Operation @ Position† @ Pos. A	@ Pos. B	@ Pos. C	13, 4, 4X Item No.	13, 4 Item No.
Lever									
2	M / M	1NO/1NC	E	No Key	XO	OX	—	**30G297**	**30G296**
2	M / M	2NO/2NC	E	No Key	XOXO	OXOX	—	**31XH91**	**30G298**
2	M / S	1NO/1NC	D	No Key	OX	XO	—	—	**30G299**
3	M / M / M	1NO/1NC	F	No Key	OO	OX	XO	—	**30G302**
3	M / M / M	1NO/1NC	D	No Key	OO	OX	XO	**31XH92**	—
3	M / M / S	1NO/1NC	C	No Key	XO	OO	OX	**30G306**	**30G305**
3	S / M / S	1NO/1NC	C	No Key	XO	OO	OX	**30G304**	**30G303**
Extended Lever									
2	M / M	1NO/1NC	E	No Key	XO	OX	—	**32UK01**	**30G308**
2	M / S	1NO/1NC	D	No Key	OX	XO	—	—	**30G310**
3	M / M / S	1NO/1NC	C	No Key	XO	OO	OX	—	**30G314**
3	S / M / S	1NO/1NC	C	No Key	XO	OO	OX	—	**30G312**
Keyed									
2	M / M	1NO/1NC	E	Left	XO	OX	—	—	**30G316**
2	M / M	1NO/1NC	E	Left/Right	XO	OX	—	—	**30G315**
2	S / M	1NO/1NC	D	Right	OX	XO	—	—	**30G317**

** M=maintained contact, S=spring return momentary contact. † X=Closed/On, O=Open/Off.*

30G296

30G315

Dayton

30mm Joystick Operators

Chrome-plated zinc die-cast construction. UL Listed. CSA and CE Certified.

No. of Directions	Action	Direction of Operation	Item No.
4	Momentary	Vertical and Horizontal	**30G490**

Dayton

30mm Contact Blocks

- 10A @ 600VAC/DC
- Direct-acting

Contact Form	Item No.
1NC	**30G318**
1NO	**30G319**
1NC/1NO	**30G320**

30G318

Dayton

30mm Potentiometers

- 4mA
- 500VAC
- 2W

Feature a heavy-duty dial plate with graduation from 0% to 100%.

Ohms	NEMA Rating	Item No.
1,000	13, 4	**30G484**
2,500	13, 4	**30G485**
5,000	13, 4	**30G486**
5,000	13, 4, 4X	**30G489**
10,000	13, 4	**30G487**

30G484

H7014

H6967

30G321

Dayton

30mm Nonilluminated Push Buttons

- NEMA 4 and 13 rated

Direct-acting operation. Contact blocks sold separately, this page.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	Item No.
Momentary Push			
Flush Button; Extended Button	Green; Red	Metal; Plastic	**H7014**
Flush Button; Extended Button	Multi	Metal; Plastic	**H7015**
40mm Mushroom Head	Black	Metal	**H6966**
60mm Mushroom Head	Red; Green	Metal; Plastic	**H6967**
Maintained Push / Maintained Pull			
40mm Mushroom Head	Red	Metal; Plastic	**H7009**
Maintained Push			
Emergency Break Glass Operator	Yellow	Plastic	**30G321**

H4396

H4386

EATON

30mm Illuminated Push Buttons, Complete Units

- Heavy-duty metal operators
- HT800 series has anodized aluminum mounting rings
- Momentary action, except mushroom head are maintained push/pull
- UL Listed, CE, and CSA Certified
- NEMA 3, 3R, 4, 4X, 12, and 13 rated

Lamp Type	▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Contact Form	Item No.
10250T Series					
Full Voltage					
Incandescent	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO; 1NC	**H4389**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO/1NC	**H4385**
LED	Round Button	Amber; Blue; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO; 1NC	**H4396**
LED	Round Button	Amber; Blue; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO/1NC; 2NO	**H4397**
Transformer					
LED	40mm Mushroom Head	Red	24V AC; 120V AC/DC	1NC	**H4432**
LED	Round Button	Amber; Blue; Green; Red; White; Yellow	120V AC	1NO; 1NC	**H4383**
LED	Round Button	Amber; Blue; Green; Red; White; Yellow	120V AC	1NO/1NC	**H4384**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO; 1NC	**H4386**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO/1NC	**H4387**
HT800 Series					
Full Voltage					
LED	41mm Mushroom Head	Green; Red	24V AC/DC; 120V AC	1NO; 1NC	**H4184**
LED	41mm Mushroom Head	Green; Red	24V AC/DC; 120V AC	1NO/1NC	**H4189**
LED	41mm Mushroom Head	Red	24V AC/DC; 120V AC	1NO/1NC	**H6948**
LED	41mm Mushroom Head	Red	24V AC/DC; 120V AC	1NO/1NC	**H6949** *
LED	41mm Mushroom Head	Red	24V AC/DC; 120V AC	1NO; 1NC	**H6950**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NC	**H5317**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	2NO/2NC	**H4191**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO	**H5298**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NC	**H5319**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	2NO/2NC	**H5300**
LED	Round Extended Guarded Button; Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	1NO/1NC	**H4187**
Transformer					
LED	41mm Mushroom Head	Green; Red	120V AC	1NO; 1NC	**H4186**
LED	41mm Mushroom Head	Green; Red	120V AC	1NO/1NC	**H4190**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NC	**H5303**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO	**H5304**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO/1NC	**H5305**
LED	Round Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	2NO/2NC	**H5306**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO	**H5302**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NC	**H4182**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	1NO/1NC	**H4188**
LED	Round Extended Guarded Button	Amber; Blue; Clear; Green; Red; White; Yellow	120V AC	2NO/2NC	**H4192**

** Finger safe terminals.*

H4402

H7064

EATON

30mm Nonilluminated Push Buttons, Complete Units

- 10A, 660VAC/VDC
- HT800 series has anodized aluminum mounting rings
- UL Listed, CE, and CSA Certified
- Momentary action

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Contact Form	▶CHOOSE: Action	Legend	Item No.
10250T Series					
40mm Mushroom Head	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4402**
40mm Mushroom Head	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4405**
65mm Mushroom Head	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4404**
65mm Mushroom Head	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4407**
65mm Mushroom Head	Red	1NO; 1NC	Momentary Push	Emergency Stop	**H4406**
65mm Mushroom Head	Red	1NO/1NC; 2NO; 2NC	Momentary Push	Emergency Stop	**H4409**
Flush Button; Extended Button	Black; Green; Red; Yellow	1NO; 1NC	Momentary Push	No Legend	**H4399**
Flush Button; Extended Button	Black; Green; Red; Yellow	1NO/1NC; 2NO; 2NC	Momentary Push	No Legend	**H4400**
HT800 Series					
40mm Domed Mushroom Head	Black; Green; Red	1NO; 1NC	Maintained Push / Maintained Pull	No Legend	**H7087**
40mm Domed Mushroom Head	Black; Green; Red	1NO/1NC	Maintained Push / Maintained Pull	No Legend	**H7091**
40mm Mushroom Head	Black; Green; Red	1NO; 1NC	Momentary Push	No Legend	**H7083**
40mm Mushroom Head	Black; Green; Red	1NO; 1NC	Maintained Push / Maintained Pull	No Legend	**H7088**
40mm Mushroom Head	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7089**
40mm Mushroom Head	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7095**
Extended Button	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7070**
Extended Button	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7074**
Flush Button	Black; Green; Red	1NO/1NC	Momentary Push	No Legend	**H7069**
Flush Button	Black; Green; Red	2NO/2NC	Momentary Push	No Legend	**H7073**
Flush Button; Extended Button	Black; Green; Red	1NO; 1NC	Momentary Push	No Legend	**H7064**

12Y206

EATON

30mm Selector Switches, Complete Units

- 600VAC
- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Switches are rated NEMA 1, 2, 3, 4, 4X, 12, and 13. Red units are illuminated, 120V incandescent lamp included.

Position	Action*	Contact Form	Color	KNOB Item No.	LEVER Item No.
10250T Series					
2 Position	M / M	1NO/1NC	Black	**39P805**	**39P806**
2 Position	M / M	1NO/1NC	Red	**39P807**	**39P808**
3 Position	M / M / M	2NO	Black	**39P809**	**39P810**
3 Position	M / M / M	2NO	Red	**39P811**	**39P812**
3 Position	M / M / M	2NO/2NC	Black	**39P813**	**39P814**
3 Position	M / M / M	2NO/2NC	Red	**39P815**	**39P816**
4 Position	M / M / M / M	2NO/2NC	Black	**39P817**	**39P818**
4 Position	M / M / M / M	2NO/2NC	Red	**39P819**	**39P820**
HT800 Series					
2 Position	M / M	1NO	Black	**12Y188**	**12Y201**
2 Position	S / M	1NO	Black	**12Y189**	**12Y202**
2 Position	M / S	1NO	Black	**12Y190**	**12Y203**
2 Position	M / M	2NO	Black	**12Y191**	**12Y204**
2 Position	S / M	2NO	Black	**12Y192**	**12Y205**
2 Position	M / S	2NO	Black	**12Y193**	**12Y206**
2 Position	M / M	2NO/2NC	Black	**12Y194**	**12Y207**
2 Position	S / M	2NO/2NC	Black	**12Y195**	**12Y208**
2 Position	M / S	2NO/2NC	Black	**12Y196**	**12Y209**
3 Position	M / M / M	2NO	Black	**12Y214**	**12Y226**
3 Position	S / M / M	2NO	Black	**12Y215**	**12Y227**
3 Position	M / M / S	2NO	Black	**12Y216**	**12Y228**
3 Position	S / M / S	2NO	Black	**12Y217**	**12Y229**
3 Position	M / M / M	2NO/2NC	Black	**12Y218**	**12Y230**
3 Position	S / M / M	2NO/2NC	Black	**12Y219**	**12Y231**
3 Position	M / M / S	2NO/2NC	Black	**12Y220**	**12Y232**
3 Position	S / M / S	2NO/2NC	Black	**12Y221**	**12Y233**
4 Position	M / M / M / M	2NO/2NC	Black	**12Y237**	**12Y243**
4 Position	S / M / M / M	2NO/2NC	Black	**12Y238**	**12Y244**
4 Position	M / M / M / S	2NO/2NC	Black	**12Y239**	**12Y245**

** M=maintained contact, S=spring return momentary contact.*

Find more Eaton 30mm Operators and Accessories at Grainger.com®.

EATON

30mm Illuminated Push Buttons

- Heavy-duty metal operators
- LED lamp
- Momentary action, except mushroom head are maintained push/pull
- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Rated NEMA 3, 3R, 4, 4X, 12, and 13. Contact blocks sold separately.

Extended

Extended/Guarded

Mushroom Push-Pull

Lamp Type	▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Lamp Module Voltage	Item No.
10250T Series				
Full Voltage				
Incandescent	Extended Button	No Cap	6V AC/DC; 12V AC/DC; 24V AC/DC; 32V AC/DC; 48V AC/DC; 120V AC; 240V AC	**H4390**
Transformer				
Incandescent	Extended Button	No Cap	24V AC; 120V AC; 240V AC; 277V AC; 380V AC; 480V AC; 600V AC	**H4382**
LED				**H4381**
HT800 Series				
Full Voltage				
LED	40mm Mushroom Head	Green; Red	24V AC/DC; 120V AC	**H4183**
		Red	24V AC	**12K626** *
			24V AC/DC; 120V AC	**H7061** †
			120V AC	**12K624** *
	Extended Guarded Button; Extended Button	Amber; Blue; Clear; Green; Red; White; Yellow	24V AC/DC; 120V AC	**H4179**
Transformer				
LED	40mm Mushroom Head	Green; Red	120V AC	**H4185**
	Full Guarded Button; Extended Button	Amber; Blue; Clear; Green; Red; White; Yellow		**H4181**

** Finger safe terminals. † Low profile version.*

EATON

30mm Nonilluminated Operators

- HT800 series has anodized aluminum mounting rings
- UL Listed and CSA Certified

Rated NEMA 1, 2, 3, 3R, 4, 4X, 12, and 13.

H4398

H7007

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Action	Item No.
10250T Series			
Half Shroud Button; Flush Button; Extended Button	Black; Red; Green; Yellow; Gray; White; Blue; Orange	Momentary Push	**H4398**
Flush Button/Flush Button; Flush Button/Extended Button	Black/Green; Green/Black; Black/Red; Green/Red	Maintained	**H4408**
65mm Mushroom Head	Black; Red; Green; Yellow	Momentary Push	**H4403**
40mm Mushroom Head	Black; Red; Green; Yellow; Blue	Momentary Push	**H4401**
HT800 Series			
Flush Button; Extended Button	Black; Red; Green	Momentary Push	**H7011**
40mm Mushroom Head		Momentary Push	**H7006**
		Maintained Push / Maintained Pull	**H7007**
		Maintained Push / Maintained Pull	**H7008**

EATON

30mm Selector Switches

- NEMA 3, 3R, 4, 4X, 12, and 13 rated
- Black knob/lever

Designed with chrome-plated housing and mounting nut on 10250T series and anodized aluminum on HT800 series. Contact blocks sold separately.

Position	Cam	Action*	KNOB Item No.	LEVER Item No.
10250T Series				
2	1	M / M	**39P984**	**39P995**
2	1	M / S	**39P985**	**39P996**
3	2	M / M / M	**39P986**	**39P997**
3	2	M / M / S	**39P992**	**39R004**
3	2	S / M / M	**39P988**	**39P999**
3	2	S / M / S	**39P990**	**39R002**
3	3	M / M / M	**39P987**	**39P998**
3	3	M / M / S	**39P993**	**39R005**
3	3	S / M / M	**39P989**	**39R001**
3	3	S / M / S	**39P991**	**39R003**
4	7	M / M / M / M	**39P994**	**39R006**
HT800 Series				
2	3A	M / M	**12Y185**	**12Y197**
2	3A	M / S	**12Y187**	**12Y199**
2	3A	S / M	**12Y186**	**12Y198**
3	1D	M / M / M	**12Y210**	**12Y222**
3	1D	M / M / S	**12Y212**	**12Y224**
3	1D	S / M / M	**12Y211**	**12Y223**
3	1D	S / M / S	**12Y213**	**12Y225**
4	8E	M / M / M / M	**12Y234**	**12Y240**
4	8E	M / M / M / S	**12Y236**	**12Y242**
4	8E	S / M / M / M	**12Y235**	**12Y241**

** M=maintained contact, S=spring return momentary contact.*

39P995

12Y185

EATON

30mm Contact Blocks

Designed with posidrive saddle clamp-type screw terminals.

Contact Form	Color	Contact Rating	Mfr. Model	Item No.
For Use With Eaton HT800 Operators				
1NC	Clear	12A @ 600V AC	HT8B	**14A136**
1NC Late Break	Clear	12A @ 600V AC	HT8D	**14A138**
1NO	Clear	12A @ 600V AC	HT8A	**14A135**
1NO Early Make	Clear	12A @ 600V AC	HT8C	**14A137**
For Use With Eaton 10250T Operators				
(1) Standard, 2NO (1) Early Make	Black	10A @ 660V AC/DC	10250T57	**39R045**
1NC	Gray	10A @ 660V AC/DC	10250T51	**H4379**
1NC/1NO	Gray	10A @ 660V AC/DC	10250T1	**H4380**
1NC Late Break	Black	10A @ 660V AC/DC	10250T71	**39R043**
1NC Late Break/1NO Early Make	Black	10A @ 660V AC/DC	10250T55	**39R047**
1NC Logic Level	Gray	0.5A @ 120V AC	10250T51E	**39R028**
1NC Standard/1NO Early Make	Black	10A @ 660V AC/DC	10250T47	**39R044**
1NO	Gray	10A @ 660V AC/DC	10250T53	**H4379**
1NO/1NC Logic Level	Gray	0.5A @ 120V AC	10250T1E	**39R030**
1NO Logic Level	Gray	0.5A @ 120V AC	10250T53E	**39R029**
2NC	Gray	10A @ 660V AC/DC	10250T3	**H4380**
2NC Logic Level	Gray	0.5A @ 120V AC	10250T3E	**39R031**
2NO	Gray	10A @ 660V AC/DC	10250T2	**H4380**
2NO Logic Level	Gray	0.5A @ 120V AC	10250T2E	**39R032**

Find more Siemens 30mm Operators and Accessories at Grainger.com®.

H6930

H5390

30mm Illuminated Push Buttons—Complete Units SIEMENS

- Include 1NO/1NC contact block
- Material: chrome-plated zinc die-cast

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. UL Listed and CSA Certified.

Type of Operator	▶CHOOSE: Color	▶CHOOSE: Contact Form	▶CHOOSE: Lamp Module Voltage	Lamp Module Type	INCANDESCENT Item No.	LED Item No.
Maintained / Momentary						
Round Button	Amber; Green; Red; White	1NO/1NC	24V AC/DC	Full Voltage	**H6930**	**H6935**
			120V AC	Transformer	**H6932**	**H6937**
Maintained Pull / Maintained Push						
44mm Mushroom Head	Amber; Green; Red; White	1NO/1NC; 2NC	24V AC/DC; 120V AC	Full Voltage	—	**H5373**
			24V AC/DC; 120V AC	Full Voltage	—	**H5391**
			120V AC; 24V AC/DC	Full Voltage	**H5390**	—
			120V AC; 240V AC; 480V AC	Transformer	**H5392**	**H5393**
Turn to Release						
45mm Mushroom Head	Amber; Green; Red	1NO/1NC; 2NC	24V AC/DC; 120V AC	Full Voltage	**H5376**	**H5376**

No Guard

Full Guard

30mm Nonilluminated Push Buttons SIEMENS

- Round shape

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. Contact blocks sold separately, this page. UL Listed and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	Bezel Material	Head Material	Mfr. Model	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull					
45mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PP3	**6EWP9**
Momentary Push					
63mm Mushroom Head	Green	Chrome Plated Zinc Die Cast	Plastic	52PM9	**32GG35**
44mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PM9	**32GG07**
		Black Epoxy Coated Zinc Die Cast	Plastic	52BM9	**32GG52**
Maintained Push / Maintained Pull					
45mm Mushroom Head	Red	Chrome Plated Zinc Die Cast	Plastic	52PP2	**6EWR1**
		Chrome Plated Zinc Die Cast	Metal	52PP2	**6EWR2**
		Epoxy Coated Zinc Die Cast	Plastic	US2:5	**41H193**
		Black Epoxy Coated Zinc Die Cast	Metal	52BP2	**41H060**

6EXF0

30mm Selector Switches SIEMENS

Rated NEMA 1, 3, 3R, 4, 4X, 12, and 13. Include operator and knob. UL Listed and CSA Certified.

Action*	Cam	LEVER Item No.	EXTENDED LEVER Item No.
2 Position			
M / M	A	**6EXF0**	**6EXE9**
M / S	A	**6EXF2**	**6EXF1**
3 Position			
M / M / M	B	**6EXF5**	**6EXF3**
M / M / M	C	**6EXF6**	**6EXF4**
M / M / S	C	**6EXF8**	**6EXF7**
S / M / S	B	**6EXG0**	**6EXF9**
4 Position			
M / M / M / M	H	**6EXG2**	**6EXG1**

** M=maintained contact, S=spring return momentary contact.*

6EXD5

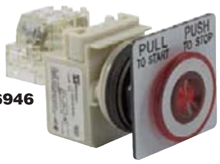
SIEMENS Contact Blocks for 30mm Operators

- 600VAC/DC
- 10A AC/5A DC

Feature screw terminal type. For use with Siemens 30mm pushbuttons and selector switches. UL Listed and CSA Certified.

Contact Form	Mfr. Model	Item No.
1NO	52BAK	**6EXD5**
1NC	52BAJ	**6EXD6**
1NC Late Break	52BAU	**6EXD7**
1NC/1NO	52BJK	**6EXD8**

H6931



H6946

30mm Illuminated Push Buttons, Complete Units Schneider Electric

Complete push buttons include interchangeable operators, contact blocks, and light modules. Oiltight, watertight, and dust-tight. Ring nuts are interchangeable. Lamp included. NEMA 4 operators are chrome-plated die-cast zinc for rugged installations. NEMA 4X operators are black plastic for corrosion resistance. UL Listed, CE and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	▶CHOOSE: Lamp Module Voltage	Lamp Type	Lamp Module Type	Contact Form	Item No.
Momentary							
Round Guarded Button; Round Extended Guarded Button; Round Button	Amber; Green; Red; Yellow	Plastic; Metal	120V AC	Incandescent	Transformer	1NO/1NC	**H6931**
	Amber; Green; Red; White; Yellow	Metal; Plastic	24V AC/DC	Incandescent	Full Voltage	1NO/1NC	**H6929**
	Green; Red; White; Amber; Yellow	Plastic; Metal	24V AC/DC; 120V AC	LED	Full Voltage	1NO/1NC	**H6934**
Maintained Pull / Maintained Push							
41mm Mushroom Head	Green; Red	Plastic; Metal	120V AC	Incandescent	Transformer	1NO/1NC	**H6946**

H7072

H7068

30mm Nonilluminated Push Buttons, Complete Units Schneider Electric

Complete push buttons include interchangeable operators, contact blocks, and light modules. Oiltight, watertight, and dust-tight operators with interchangeable ring nuts and color inserts make design changes easy. NEMA 4 operators are chrome-plated die-cast zinc for rugged installations. NEMA 4X operators are black plastic for corrosion resistance. UL Listed, CE and CSA Certified.

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Head Material	▶CHOOSE: Contact Form	Item No.
Momentary Push				
No Guard; Flush Button; Extended Button	Universal	Plastic; Metal	1NO/1NC	**H7072**
Flush Button; Extended Button	Black; Green; Red	Metal; Plastic	1NO; 1NC	**H7062**
	Universal	Plastic; Metal	1NO; 1NC	**H7066**
Flush Button; Extended Guard; Extended Button	Red; Black; Green; Yellow	Metal; Plastic	1NO/1NC	**H7068**
57mm Mushroom Head; 35mm Mushroom Head	Green; Red; Black	Plastic	1NC	**H7084**
	Red	Plastic	1NC	**H7086**
Maintained Push / Maintained Pull				
40mm Mushroom Head	Red; Black; Green	Plastic	1NO/1NC	**H7093**

Position	Action*	Contact Form	Cam	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Switch @ Pos. D	METAL Item No.	PLASTIC Item No.
Lever									
2	M / M	1NO/1NC	E	OX	XO	—	—	2EN52	5GEV1
2	M / M	1NO/1NC	E	OX	XO	—	—	2EN53	45J160
2	M / M	1NO/1NC	E	OX	XO	—	—	7A161 †	—
2	M / M	2NO/2NC	E	OXOX	XOXO	—	—	2EN54	45J161
2	M / S	1NO/1NC	D	XO	OX	—	—	5GET0	—
2	S / M	1NO/1NC	E	OX	XO	—	—	5GER8	5EAV7
3	M / M / M	1NO/1NC	B	OX	XO	XO	—	45C539	—
3	M / M / M	1NO/1NC	B	XO	XO	OX	—	5GET3	45J168
3	M / M / M	2NO/2NC	B	XOOX	XOXO	OXXO	—	45C540	45J169
3	M / M / M	1NO/1NC	C	OX	OO	XO	—	5GET5	5CFJ3
3	M / M / M	1NO/1NC	C	OX	OO	XO	—	2EN61	45J170
3	M / M / M	2NO/2NC	C	OXOX	OOOO	XOXO	—	—	45J171
3	M / M / M	1NO/1NC	D	OO	XO	OX	—	5GET8	—
3	M / M / M	1NO/1NC	D	OO	XO	OX	—	7A163 †	—
3	M / M / M	2NO/2NC	F	OOOX	OXOO	XOXO	—	45C542	45J174
3	M / M / M	1NO/2NC	F	OOX or OOX	XOO or OXO	OXO or XOO	—	7A164 †	—
3	M / M / M	1NO/1NC	F	OX	OO	XO	—	—	45J173
3	M / M / M	1NO/1NC	F	OX or OO	OO or OX	XO or XO	—	7A162 †	—
3	M / M / M	2NO/2NC	J	OXOX	XOXO	OXXO	—	45C544	45J175
3	M / M / S	1NO/1NC	C	OX	OO	XO	—	5GEU6	5CFJ5
3	S / M / M	1NO/1NC	C	OX	OO	XO	—	5GEU3	—
3	S / M / S	1NO/1NC	C	OX	OO	XO	—	45C545	—
3	S / M / S	1NO/1NC	C	OX	OO	XO	—	5GEU0	5GEP8
3	S / M / S	2NO/2NC	C	OXOX	OOOO	XOXO	—	45C546	—
4	M / M / M / M	1NO/1NC	H	OOO or OXO	XOO or OOX	OOX or XOO	OXO or OOO	7A165 †	—
4	M / M / M / M	1NO/1NC	H	OO or OX	XO or OO	OO or XO	OX or OO	7A166 †	—
4	M / M / M / M	2NO/2NC	H	OOOX	XOOO	OOXO	OXOO	5GEU8	5CFJ6
Extended Lever									
2	M / M	1NO/1NC	E	OX	XO	—	—	5GER3	45J164
2	M / M	1NO/1NC	E	OX	XO	—	—	5GER2	45J163
2	M / M	2NO/2NC	E	OXOX	XOXO	—	—	5GER4	45J165
2	M / S	1NO/1NC	D	XO	OX	—	—	5GET1	—
2	S / M	1NO/1NC	E	OX	XO	—	—	5GER9	—
3	M / M / M	1NO/1NC	B	XO	XO	OX	—	5GET4	—
3	M / M / M	1NO/1NC	C	OX	OO	XO	—	5GET6	5CFJ4
3	M / M / M	1NO/1NC	C	OX	OO	XO	—	45C541	—
3	M / M / S	1NO/1NC	C	OX	OO	XO	—	5GEU7	—
3	S / M / M	1NO/1NC	C	OX	OO	XO	—	5GEU4	5GER1
3	S / M / S	1NO/1NC	C	OX	OO	XO	—	5GEU1	5GEP9
3	S / M / S	1NO/1NC	C	OX	OO	XO	—	45C547	45J178
3	S / M / S	2NO/2NC	C	OXOX	OOOO	XOXO	—	45C548	—
4	M / M / M / M	1NO/1NC	H	OOOX	XOOO	OOXO	OXOO	5GEU9	—

*Note: X=Closed/On, O=Open/Off. * M=maintained contact, S=spring return momentary contact. † Unassembled versions.*

Extended
5GER2

Standard
5GET3

Keyed
5GER5

30mm Selector Switch Combinations, Complete Units

Oiltight, watertight, and dust-tight. Include operator and contact block. NEMA rated: 3,3R,4,4X,6,13, plastic models also 4X. UL Listed, CSA and CE Certified. RoHS compliant and ABS Certified.

Position	Action	Contact Form	Cam	Key Removal	Switch @ Pos. A	Switch @ Pos. B	Switch @ Pos. C	Switch @ Pos. D	METAL Item No.
Keyed									
2	M / M	1NO/1NC	E	Left	OX	XO	—	—	5GER5
2	M / M	1NO/1NC	E	Right	OX	XO	—	—	5GER6
2	M / M	1NO/1NC	E	Left/Right	OX	XO	—	—	5GER7
2	M / M	2NO/2NC	E	Left and Right	OXOX	XOXO	—	—	45C538
2	M / S	1NO/1NC	D	Left	XO	OX	—	—	5GET2
3	M / M / M	1NO/1NC	C	Any Position	OX	OO	XO	—	5GET7
3	S / M / M	1NO/1NC	C	Center and Right	OX	OO	XO	—	5GEU5
3	S / M / S	1NO/1NC	C	Center	OX	OO	XO	—	5GEU2
4	M / M / M / M	1NO/1NC	H	Any Position	OOOX	XOOO	OOXO	OXOO	5GEV0

30mm Illuminated Operators

- Momentary operators
- Caps not included
- NEMA rated 4 and 13 without boots
- Plastic operators are NEMA 4X rated (corrosion-resistant)

Oiltight, watertight, and dust-tight. Ring nuts are interchangeable. Premium long-life, incandescent lamp included. A complete push button requires a contact block (see page 248) and cap, sold separately. UL Listed, CE and CSA Certified.

H4484

H4530

▶CHOOSE: Lamp Module Voltage	▶CHOOSE: Type of Operator	▶CHOOSE: Bezel	Item No.
Full Voltage			
24V AC/DC; 120V AC	No Guard; Full Guarded Button	Plastic; Metal	H4484
Transformer			
120V AC; 240V AC	No Guard; Full Guarded Button	Plastic; Metal	H4530
Push Button Cap			
For Use With Schneider Illuminated Push Buttons K1L, K2L, K3L, SK1L and SK2L Series		Yellow; White; Red; Green; Clear; Blue; Amber	H7108

▶CHOOSE: Type of Operator	▶CHOOSE: Color	▶CHOOSE: Basic Material	Item No.
Momentary Push / Maintained Intermediate / Momentary Pull			
40mm Mushroom Head	Black; Green; Red; Yellow	Metal; Plastic	H4522
40mm Mushroom Head	No Cap	Metal; Plastic	H4528
Momentary Push			
40mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red	Metal	H4527
Extended Button; Flush Button	Black; Green; Red	Metal; Plastic	H4518
Extended Button; Flush Button	Multi	Metal; Plastic	H4517
Maintained Push / Turn To Release			
30mm dia Mushroom Head; 40mm Mushroom Head	Red	Plastic; Metal	H7010
Maintained Push / Maintained Pull			
40mm Mushroom Head; 60mm Mushroom Head	Black; Green; Red; Amber; Blue; White; Yellow	Metal; Plastic	H4526
40mm Mushroom Head	Black; Green; Red	Metal	H4539 *
40mm Mushroom Head	No Cap	Metal; Plastic	H4533
60mm Mushroom Head	Red	Metal	H4540
Maintained Push / Maintained Intermediate / Maintained Extended Key Lockable			
Flush Button	No Cap	Metal	2EN06
Maintained Push			
Emergency Break Glass Operator	Black	Metal	2EL29
Interlocked, Maintained 2 Position			
Full Guard	Black/Red; Green/Red	Metal	H4531

** Metal head.*

H4522

H4518

H4517

30mm Nonilluminated Operators

- Notch-mount with contact blocks, sold separately
- NEMA rated 4 and 13 without boots
- Plastic models are NEMA 4X rated (corrosion-resistant)

Oiltight, watertight, and dusttight operators with interchangeable ring nuts and color inserts make design changes easy. A complete push button requires a contact block, sold separately, see page 248

EMERGENCY BREAK GLASS OPERATOR

Glass disc holds operator in depressed position. When disc is broken, button returns to normal extended position. Includes hammer and 5 discs.

Extended Knob
NEMA 4, 13
2NLT8

Standard Knob
NEMA 4, 4X, 13
5B445

Standard
Switch Knob
5B576

Extended Handle
Switch Knob
5B580

30mm Selector Switches

- Notch-mount
- NEMA 4X operators are corrosion-resistant
- NEMA rated 4 and 13 without boots

Multiple cam/contact block arrangement provides maximum flexibility. Knob or key is included, unless otherwise indicated. UL Listed, CSA Certified and CE Certified.

Cam	Type of Operator	Key Removal	Maintained Item No.	NEMA 12, 13, 3, 3R, 4 Momentary R Item No.	NEMA 12, 13, 3, 3R, 4 Momentary L Item No.	NEMA 12, 13, 3, 3R, 4 Momentary L/R Item No.	NEMA 12, 13, 3, 3R, 4, 4X Maintained Item No.
2 Position							
D	Operator Not Included	No Key	**2NLR8**	**2NLT4**	—	—	—
D	Lever	No Key	**2EN56**	**5B504**	—	—	**2NMN2**
D	Keyed	Left and Right	**2NLT2**	—	—	—	—
D	Keyed	Left	**2NLR9**	**2EN59**	—	—	—
E	Operator Not Included	No Key	**5B510**	—	**2NLT3**	—	**5B449**
E	Lever	No Key	**5B509**	—	**5B505**	—	**5B448**
E	Keyed	Left/Right	**5B506**	—	—	—	—
E	Keyed	Left	**5B508**	—	—	—	—
E	Keyed	Right	**5B507**	—	**2EN57**	—	—
3 Position							
B	Operator Not Included	No Key	**5B502**	**5B486**	**5B488**	**5B491**	**6B328**
B	Lever	No Key	**5B501**	**2NLY6**	**2NLW6**	**2EN72**	**5B447**
B	Keyed	Center	**2NLT9**	—	—	**2NLV2**	—
B	Extended Lever	No Key	**2NLT8**	**2NLY7**	**2NLW7**	**2NLV1**	**2NMN5**
C	Operator Not Included	No Key	**5B499**	**5B485**	**5B487**	**5B490**	**5B446**
C	Lever	No Key	**5B498**	**2NLY9**	**2EN80**	**2EN74**	**5B445**
C	Keyed	Any Position	**2EN64**	—	—	—	—
C	Keyed	Center	**2EN65**	**2NLZ2**	—	**2EN76**	—
C	Extended Lever	No Key	**2EN63**	**2NLZ1**	**2NLW9**	**2EN75**	**2NMN6**
F	Operator Not Included	No Key	**5B495**	—	—	**5B489**	**2NMN8**
F	Lever	No Key	**5B494**	—	—	**2NLV4**	**6B326**
F	Keyed	Any Position	**2EN70**	—	—	—	—
F	Keyed	Center	—	—	—	**2NLV5**	—
G	Operator Not Included	No Key	—	—	—	**2NLV6**	—
G	Lever	No Key	**5B493**	**2NLZ7**	—	—	**2NMP1**
G	Keyed	Center	—	—	—	**2NLV8**	—
J	Operator Not Included	No Key	**2NLU5**	—	—	**2NLV9**	—
J	Lever	No Key	**5B492**	**2NMA1**	—	**2NLW1**	**2NMP3**
J	Keyed	Center	**2NLU7**	—	—	**2NLW2**	—
J	Keyed	Any Position	**2NLU6**	—	—	—	—
L	Operator Not Included	No Key	**2NLT5**	—	—	**2NLU8**	—
L	Lever	No Key	**5B503**	—	—	**2EN71**	**2NMN4**
L	Keyed	Center	—	—	—	**2NLU9**	—
4 Position							
H	Operator Not Included	No Key	**5B484**	—	—	—	**5B444**
H	Lever	No Key	**5B483**	—	—	—	**6B325**
H	Keyed	Any Position	**5B482**	—	—	—	—

Style	Amber Item No.	Black Item No.	Blue Item No.	Clear Item No.	Green Item No.	Orange Item No.	Red Item No.	White Item No.	Yellow Item No.
Selector Switch Knobs									
Lever	**5B576**	**5B574**	**5B470**	**5B568**	**5B560**	**2NME4**	**5B462**	**5B438**	**5B432**
Extended Lever	**5B580**	**5B573**	**5B474**	**5B572**	**5B564**	**5B459**	**5B466**	**5B442**	**5B436**

30mm Schneider Electric Selector Switch/Contact Block Configurations

Contact Block Descriptions:

5B535 = 1 Normally Closed; 5B536 = 1 Normally Open; 5B537 = 1 Normally Open and 1 Normally Closed

When viewed from the back, bottom side is side 1, and top side is side 2.

2-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:		When mounting it to:
5B535	D	Off	On	Side 2
5B536	D	On	Off	Side 2
5B537	D	Off	On	Side 1
	D	On	Off	Side 1
5B535	E	On	Off	Side 2
5B536	E	Off	On	Side 2
5B537	E	On	Off	Side 1
	E	Off	On	Side 1

4-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:				When mounting it to:
5B535	H	On	Off	Off	Off	Side 2
5B536	H	Off	Off	On	Off	Side 2
5B537	H	Off	Off	Off	On	Side 1
	H	Off	On	Off	Off	Side 1

3-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:			When mounting it to:
5B535	B	On	Off	Off	Side 2
5B536	B	Off	On	On	Side 2
5B537	B	Off	Off	On	Side 1
	B	On	On	Off	Side 1
5B535	C	On	Off	Off	Side 2
5B536	C	Off	Off	On	Side 2
5B537	C	On	Off	Off	Side 1
	C	Off	Off	On	Side 1
5B535	D	Off	Off	On	Side 2
5B536	D	Off	On	Off	Side 2
5B537	D	Off	Off	On	Side 1
	D	Off	On	Off	Side 1
5B535	E	On	Off	Off	Side 2
5B536	E	Off	On	Off	Side 2
5B537	E	On	Off	Off	Side 1
	E	Off	On	Off	Side 1

3-POSITION SELECTOR SWITCHES

Putting a contact block:	On a selector switch with Cam:	Will give a contact configuration of:			When mounting it to:
5B535	F	On	Off	Off	Side 2
5B536	F	Off	Off	On	Side 2
5B537	F	Off	On	Off	Side 1
	F	Off	Off	On	Side 1
5B535	G	On	Off	Off	Side 2
5B536	G	Off	On	On	Side 2
5B537	G	Off	Off	On	Side 1
	G	On	Off	Off	Side 1
5B535	J	On	Off	Off	Side 2
5B536	J	Off	On	On	Side 2
5B537	J	On	Off	On	Side 1
	J	Off	On	Off	Side 1
5B535	L	Off	On	Off	Side 2
5B536	L	On	Off	Off	Side 2
5B537	L	Off	Off	On	Side 1
	L	Off	On	Off	Side 1

5B537

30mm Contact Blocks

- NEMA rated A600-P600
- #12 to 24 AWG wire range allows use of more common small wire sizes

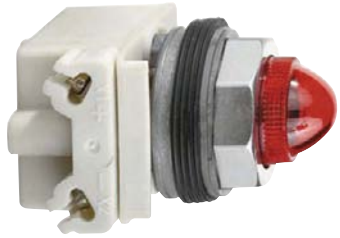
Finger-safe terminals are at 20° angle to eliminate interference with other contact blocks mounted in tandem. Feature double-break fine silver contacts with wiping action.

Description	Contact Rating	1NO Mfr. Model	1NO Item No.	1NC Mfr. Model	1NC Item No.	1NC/1NO Mfr. Model	1NC/1NO Item No.
Standard Direct Acting	10A @ 600V AC	9001KA2	**5B536**	9001KA3	**5B535**	9001KA1	**5B537**
Early Closing	10A @ 600V AC	—	—	—	—	9001KA4	**5B534**
Late Opening	10A @ 600V AC	—	—	9001KA5	**5B533**	—	—
Hermetically Sealed, Low Energy Reed Switch	0.5A @ 120V AC	9001KA42	**2EL93**	9001KA43	**2XVK5**	9001KA41	**2EL92**
Hermetically Sealed, Power Reed	3A @ 240V AC	9001KA52	**2XVK6**	9001KA53	**2EL98**	9001KA51	**2EL96**
Alternate Action (Push-On/Push-Off) Module, Holds Contacts in Maintained Position, Use w/Max. of 2 Contact Blocks						9001K85	**5B539**

Siemens
H5398

Dayton
H6726

Eaton
H6724



Schneider
H4506

30mm Pilot Lights

- Round shape
- Plastic lens
- Screw clamp terminals

Models with LED lamps provide 100,000 hr. of life. Rated NEMA 1, 3, 3R, 4, 12, and 13. Plastic versions also NEMA 4X. UL Listed and CSA Certified.

Lamp Module Type	Lamp Type	▶CHOOSE: Voltage	▶CHOOSE: Basic Material	▶CHOOSE: Color	Brand/Series	Item No.
Pilot Light Complete						
Full Voltage	Incandescent	24V AC/DC; 120V AC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4429**
		24V AC/DC; 120V AC	Metal	Amber; Green; Red; White	Siemens	**H5398**
	LED	12V AC/DC; 24V AC/DC; 120V AC	Plastic; Metal	Red; Amber; Blue; Green; Yellow; White	Schneider Electric	**H4515**
		24V AC/DC; 120V AC	Plastic; Metal	Amber; Blue; Green; Red	Dayton	**H6726**
		24V AC/DC; 120V AC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton HT800 Series	**H6724**
		24V AC/DC; 120V AC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4426**
		24V AC/DC; 120V AC	Metal	Amber; Green; Red; White	Siemens	**H5402**
Transformer	Incandescent	120V AC	Plastic; Metal	Amber; Green; Red; White	Schneider Electric	**H4506**
		120V AC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4427**
		120V AC; 240V AC; 480V AC	Metal	Amber; Green; Red; White	Siemens	**H5400**
	LED	120V AC	Metal; Plastic	Blue; Green; Red	Dayton	**H6729**
		120V AC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton HT800 Series	**H6727**
		120V AC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4423**
		120V AC; 240V AC; 480V AC	Metal	Amber; Green; Red; White	Siemens	**H5404**
Pilot Light Without Lens						
Full Voltage	Incandescent	6V AC/DC; 12V AC/DC; 24V AC/DC; 32V AC/DC; 48V AC/DC; 120V AC; 240V AC	Metal	—	Eaton 10250T Series	**H4392**
		6V AC/DC; 12V AC/DC; 24V AC/DC; 120V AC	Plastic; Metal	—	Schneider Electric	**H4477**
Transformer		120V AC; 208V AC; 240V AC; 480V AC	Plastic; Metal	—	Schneider Electric	**H4495**
		120V AC; 240V AC; 277V AC; 380V AC; 480V AC; 600V AC	Metal	—	Eaton 10250T Series	**H4393**
	LED	120V AC; 240V AC; 277V AC; 380V AC; 480V AC; 600V AC	Metal	—	Eaton 10250T Series	**H4391**
Push to Test Pilot Light Complete						
Full Voltage	LED	12V AC/DC; 24V AC/DC; 120V AC	Metal; Plastic	Red; Amber; Blue; Green; Yellow	Schneider Electric	**H4513**
		24V AC/DC; 120V AC	Metal; Plastic	Amber; Blue; Green; Red	Dayton	**H6736**
		24V AC/DC; 120V AC	Metal	Amber; Blue; Clear; Green	Eaton HT800 Series	**H6735**
		24V AC/DC; 120V AC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4420**
Transformer	Incandescent	120V AC	Plastic; Metal	Green; Red	Schneider Electric	**H4510**
		120V AC	Metal	Amber; Blue; Clear; Green; Red; White; Yellow	Eaton 10250T Series	**H4421**
	LED	120V AC	Metal	Amber; Blue; Clear; Green	Eaton HT800 Series	**H6737**
		120V AC	Metal	Amber; Blue; Green; Red; White; Yellow	Eaton 10250T Series	**H4418**
		120V AC	Metal	Green; Red; White; Yellow	Dayton	**H6738**
Push to Test Pilot Light Without Lens						
Full Voltage	Incandescent	6V AC/DC; 12V AC/DC; 24V AC/DC; 32V AC/DC; 48V AC/DC; 120V AC; 240V AC	Metal	—	Eaton 10250T Series	**H4395**
		24V AC/DC; 120V AC	Plastic; Metal	—	Schneider Electric	**H4497**
Transformer		120V AC; 240V AC; 380V AC; 480V AC; 600V AC	Metal	—	Eaton 10250T Series	**H4394**
	LED	120V AC; 240V AC; 380V AC; 480V AC; 600V AC	Metal	—	Eaton 10250T Series	**H4419**

Slimline
2VB70

Standard
2W836

Extra Deep
2VB69

304 Stainless Steel
4KP15

30mm JIC and NEMA 12 and 13 Oiltight Push-Button Enclosures

HUBBELL WIEGMANN

- JIC Standard EL-1-71
- 14-ga. carbon steel
- ANSI 61 gray polyester powder-coated finish, except stainless steel
- Seam welded and ground smooth

Neoprene gasket and mounting flange ensure oiltight seal. Captive cover screws are threaded into deep-well hubs. Grounding stud included. UL Listed and CSA Certified.

No. of Holes	No. of Columns	H	W	D	Mfr. Model	Item No.
Slimline						
1	1	4 in	2.5 in	2.5 in	PSL1	**2VB70**
2	1	6.25 in	2.5 in	2.5 in	PSL2	**2VB72**
3	1	8.5 in	2.5 in	2.5 in	PSL3	**2VB74**
4	1	10.75 in	2.5 in	2.5 in	PSL4	**2VB76**
Standard						
1	1	3.5 in	3.25 in	2.81 in	PB1	**2W834**
2	1	5.75 in	3.25 in	2.81 in	PB2	**2W835**
3	1	8 in	3.25 in	2.81 in	PB3	**2W836**
4	1	10.25 in	3.25 in	2.81 in	PB4	**3A934**
6	2	9.5 in	6.25 in	3.09 in	PB6	**2W837**
9	3	9.5 in	8.5 in	3.09 in	PB9	**3A935**
12	3	11.75 in	8.5 in	3.09 in	PB12	**3A936**
Extra Deep						
1	1	4 in	4 in	4.81 in	PBXD1	**2VB65**
2	1	6 in	4 in	4.81 in	PBXD2	**2VB66**
3	1	8 in	4 in	4.81 in	PBXD3	**2VB67**
4	1	10 in	4 in	4.81 in	PBXD4	**2VB68**
6	2	9.5 in	8.5 in	4.81 in	PBXD6	**2VB69**
304 Stainless Steel						
1	1	3.5 in	3.25 in	2.81 in	PBSS1	**4KP15**
2	1	5.75 in	3.25 in	2.81 in	PBS2	**4KP16**
3	1	8 in	3.25 in	2.81 in	PBS3	**4KP17**
4	1	10.25 in	3.25 in	2.81 in	PBSS4	**4KP18**
6	2	9.5 in	6.25 in	3.09 in	PBS6	**4KP19**

Metal Enclosure
2EP71

Die-Cast Zinc Enclosure with Guard
5GCD9

Die-Cast Zinc Enclosure
5B478

Metal Enclosure
2EP86

Schneider Electric

30mm Push-Button Enclosures

- ¾" NPT conduit entry

Surface mounted. Type KN-1, KN-6, and KN-7 legend plates will not fit on these enclosures.

No. of Holes	Color	NEMA Rating	H	W	D	Mfr. Model	Item No.
Metal Enclosures							
1	Gray	1, 13, 3	5.24 in	4.18 in	3.63 in	9001KYAF1	**2NMA9**
2	Gray	1, 13, 3	7.74 in	4.18 in	3.63 in	9001KYAF2	**2EP71**
3	Gray	1, 13, 3	10.24 in	4.18 in	3.63 in	9001KYAF3	**2NMC1**
4	Gray	1, 13, 3	12.74 in	4.18 in	3.63 in	9001KYAF4	**2NMC2**
Die-Cast Aluminum Enclosures with Guard							
1	Gray	4	3.63 in	5.5 in	4 in	9001KYG1	**5GCD8**
1	Gray and Yellow	4	3.63 in	5.5 in	4 in	9001KYG1Y	**5GCD9**
Die-Cast Aluminum Enclosures							
1	Gray	1, 13, 3, 4	4 in	3.63 in	3.53 in	9001KY1	**5B478**
2	Gray	1, 13, 3, 4	5.75 in	3.63 in	3.53 in	9001KY2	**5B477**
3	Gray	1, 13, 3, 4	7.5 in	3.63 in	3.53 in	9001KY3	**5B476**
4	Gray	1, 13, 3, 4	9.25 in	3.63 in	3.53 in	9001KY4	**5B475**
Metal Enclosures							
1	—	1, 13, 3, 4, 4X	5.24 in	4.18 in	3.63 in	9001KYSS1	**2EP86**
304 Stainless Steel Enclosures							
2	—	1, 13, 3, 4, 4X	7.74 in	4.18 in	3.63 in	9001KYSS2	**2NME1**
Plastic Enclosures							
1	Gray	1, 13, 3, 4, 4X	6.63 in	3.81 in	3.88 in	9001SKY1	**2ER70**
2	Gray	1, 13, 3, 4, 4X	6.63 in	3.81 in	3.88 in	9001SKY2	**2NMR3**
3	Gray	1, 13, 3, 4, 4X	8.88 in	3.81 in	3.88 in	9001SKY3	**2NMR4**
Blanking Plugs							
—	Gray	—	—	—	—	9001K51	**5B543**
—	Black	—	—	—	—	9001K52	**5B542**

Enclosure
2AAR9

Push-Button Enclosure
2VB54

Base
2VB99

Column
2VE11

HUBBELL WIEGMANN

JIC and NEMA 12 and 13 Sloped Enclosures

- Carbon steel
- ANSI 61 gray polyester powder-coated finish
- Seam welded and ground smooth

UL Listed, CSA Certified.

ENCLOSURES

Angled face ensures all installed devices face operator. Enclosures have grounding provision. Captive cover screws are threaded into deep-well hubs.

Sloped Top

Enclosure can be mounted to create either a 30° or 60° angle for the control surface. Continuously hinged cover along bottom edge.

Push-Button

Accept all standard 30mm 4-way push buttons, switches, and pilot lights. Top and bottom mounting plate.

PEDESTAL COLUMNS AND BASES

Supports sloped-top enclosures.

Columns

Pedestal columns provide passage-way for wiring. Flanged at both ends with a gasketed cover plate. Include access plate, gaskets, screws, and box connective fittings. Angled pedestal has a 45° angle at top.

Bases

Floor-mounted with a square pattern of holes to fit a wiring column or other flanged device. Include leveling screws.

Description	H	W	D	Item No.
Sloped Top Enclosure	8.0 in	8.0 in	7.0 in	**2VB90**
Sloped Top Enclosure	8.0 in	12.0 in	7.0 in	**2VB91**
Sloped Top Enclosure	8.0 in	16.0 in	7.0 in	**2VB92**
Sloped Top Enclosure	8.0 in	20.0 in	7.0 in	**2AAR9**
Sloped Top Enclosure	12.0 in	12.0 in	9.0 in	**2VB93**
Sloped Top Enclosure	12.0 in	16.0 in	9.0 in	**2VB94**
Sloped Top Enclosure	12.0 in	20.0 in	9.0 in	**2VB95**
Sloped Top Enclosure	12.0 in	24.0 in	9.0 in	**2AAT1**
Sloped Top Enclosure	16.0 in	16.0 in	11.0 in	**2VB96**
Sloped Top Enclosure	16.0 in	20.0 in	11.0 in	**2VB97**
Sloped Top Enclosure	16.0 in	24.0 in	11.0 in	**2AAT2**
Sloped Top Enclosure	16.0 in	30.0 in	11.0 in	**2AAT3**
Sloped Top Enclosure	20.0 in	20.0 in	13.0 in	**2VB98**
Sloped Top Enclosure	20.0 in	24.0 in	13.0 in	**2ACB7**
Sloped Top Enclosure	20.0 in	30.0 in	13.0 in	**2AUB4**
Sloping Front Pushbutton Enclosure, 1 Column, 1 Hole	3.5 in	3.25 in	4.78 in	**2VB54**
Sloping Front Pushbutton Enclosure, 1 Column, 2 Hole	3.5 in	5.5 in	4.78 in	**2VB55**
Sloping Front Pushbutton Enclosure, 1 Column, 3 Hole	3.5 in	7.75 in	4.78 in	**2VB56**
Sloping Front Pushbutton Enclosure, 1 Column, 4 Hole	3.5 in	10 in	4.78 in	**2VB57**
Sloping Front Pushbutton Enclosure, 3 Column, 6 Hole	7.25 in	8.5 in	6.66 in	**2VB58**
Straight Pedestal Column	35.0 in	4.0 in	4.00"	**2VE11**
Angled Pedestal Column	41.0 in	4.0 in	4.00"	**2VE12**
Straight Pedestal Column	35.0 in	6.0 in	6.00"	**2VE13**
Pedestal Base	1.0 in	18.0 in	18.00"	**2VB99**
Pedestal Base	1.0 in	24.0 in	24.00"	**2VE10**

Screw Terminals 2VLN5

2-Pole 2VLU1

Quick Connect Tab Terminals 2VLT8

Push Switch 2VLN3

Rotary Switch 2VLR8

POWER 1 FIRST

Panel-Mount Switches

- Bat toggle: 11⁄16"L on 2VLN2, 2VLP4, and 2VLU1; ¾"L on all others
- Toggle switch stem is ½" dia. x ½"L

Applications include appliances, equipment, power tools, lighting control, and other switching functions. UL Listed. Toggle switches include mounting nut. Tabs are ¼" quick-connect.

Switch Function	AC Contact Rating	HP	1-POLE Terminals	1-POLE Contact Form	1-POLE Item No.	2-POLE Terminals	2-POLE Contact Form	2-POLE Item No.	3-POLE Terminals	3-POLE Contact Form	3-POLE Item No.
Toggle Switches, 0.50 in dia Mounting Hole											
Momentary On/Off	15A @ 277V AC, 20A @ 125V AC	1 ½ hp	Quick Connect	SPST	**2LMZ1**	—	—	—	—	—	—
Momentary On/Off/Momentary On	15A @ 277V AC, 20A @ 125V AC	1 ½ hp	Screw	SPDT	**2VLT2**	—	—	—	—	—	—
On/Momentary Off	15A @ 277V AC, 20A @ 125V AC	1 ½ hp	Quick Connect	SPST	**2LMZ2**	—	—	—	—	—	—
On/Off	3A @ 250V AC, 6A @ 125V AC	—	Screw	SPST	**2VLN2**	—	—	—	—	—	—
On/Off	15A @ 277V AC, 20A @ 125V AC	2 hp	Screw	SPST	**2VLN5**	Quick Connect	DPST	**2VLU1**	Screw	3PST	**2VLT3**
On/Off	15A @ 277V AC, 20A @ 125V AC	2 hp	Quick Connect	SPST	**2VLT7**	—	—	—	—	—	—
On/Off/On	15A @ 277V AC, 20A @ 125V AC	2 hp	Screw	SPDT	**2VLN7**	—	—	—	—	—	—
On/On	15A @ 277V AC, 20A @ 125V AC	2 hp	Quick Connect	SPDT	**2VLT8**	—	—	—	Screw	3PDT	**2VLP6**

Description	AC Contact Rating	Contact Form	Terminals	Item No.	Pkg. Qty.
Miniature Push Button Switches, ½" Mounting Hole					
On/Off	3A @ 250V AC, 6A @ 125V AC	SPST	Screw	**2VLN3**	1
Off/Momentary On	10A @ 250V AC, 16A @ 125V AC	SPST	Screw	**2VLP7**	1

Description	AC Contact Rating	Contact Form	Terminals	Item No.	Pkg. Qty.
Rotary Switches, ½" Mounting Hole					
Off/On/On/On	13A @ 125V, 6.5A @ 250V	SP3T	Solder Lug	**2VLR8**	1
Off/On/On/On/On	13A @ 125V, 6.5A @ 250V	SP4T	Solder Lug	**2VLT6**	1

Honeywell

TL Series Toggle Switches

- Rated 10A up to 277V
- Temp. range: -85° to 160°F
- ½" dia. hole mounting

Feature thermoset phenolic case and silver cadmium oxide contacts. UL Listed and CSA Certified.

24D313

24D347

Switch Function	Terminals	HP	1-POLE Contact Form	1-POLE Mfr. Model	1-POLE Item No.	2-POLE Contact Form	2-POLE Mfr. Model	2-POLE Item No.	4-POLE Contact Form	4-POLE Mfr. Model	4-POLE Item No.
Standard Lever											
Momentary On/Off	Screw	½ hp	SPST	1TL1-6	**24D311**	DPST	2TL1-6	**24D344**	—	—	—
Momentary On/Off/Momentary On	Screw	½ hp	SPDT	1TL1-7	**24D313**	DPDT	2TL1-7	**24D347**	—	—	—
Momentary On/Off/On	Screw	½ hp	SPDT	1TL1-5	**24D309**	DPDT	2TL1-5	**24D337**	—	—	—
Momentary On/On	Screw	½ hp	SPDT	1TL1-8	**24D316**	—	—	—	—	—	—
Momentary On/On/Momentary On	Screw	1 hp	—	—	—	DPDT	2TL1-70	**24D348**	—	—	—
Momentary On/On/On	Screw	½ hp	—	—	—	DPDT	2TL1-56	**24D342**	—	—	—
On/Momentary Off	Screw	½ hp	SPST	1TL1-4	**24D308**	—	—	—	—	—	—
On/Momentary On	Screw	½ hp	—	—	—	DPDT	2TL1-51	**24D341**	—	—	—
On/Off	Screw	1 hp	SPST	1TL1-2	**24D298**	DPST	2TL1-2	**24D328**	—	—	—
On/Off	Screw	1 hp	SPST	1TL1-21	**24D299**	DPST	2TL1-21	**24D329**	—	—	—
On/Off/On	Screw	1 hp	SPDT	1TL1-1	**24D295**	DPDT	2TL1-1	**24D321**	—	—	—
On/On	Screw	1 hp	SPDT	1TL1-3	**24D303**	DPDT	2TL1-3	**24D331**	4PDT	4TL1-3	**24D358**
On/On/On	Screw	1 hp	—	—	—	DPDT	2TL1-10	**24D322**	—	—	—
Lever-Lock											
On/Off	Screw	1 hp	SPST	1TL1-2G	**24D302**	—	—	—	—	—	—
On/Off	Screw	1 hp	SPST	1TL1-2D	**24D301**	—	—	—	—	—	—
On/Off/On	Screw	1 hp	SPDT	1TL1-1L	**24D297**	—	—	—	—	—	—
On/On	Screw	1 hp	—	—	—	DPDT	2TL1-3D	**24D334**	4PDT	4TL1-3D	**24D360**

1XWT3

1XWT5

1XWR1

1XWT1

Tool and Motor Control Switches

- Brass/nickel-plated bushings

Excellent for power tool and motor control switch applications.

Contact Form	Switch Function	No. of Connec.	Terminals	Mounting Hole	HP	Mfr. Model	Item No.
Pull Chain Lever Switch, 3A @ 250V, 6A @ 120V							
SPST	On/Off	2	Wire Lead	$\frac{15}{32}$ in dia	—	774035	**1XWT3**
Toggle Switch, 10A @ 250V AC, 20A @ 125V AC							
SPST	On/Off	2	Screw	0.50 in dia	¾ hp	774019	**1XWT5**
SPST	On/Off	2	Screw	0.50 in dia	¾ hp	774011	**4FRL6**
SPDT	On/Off/On	3	Quick Connect	0.50 in dia	¾ hp	774027	**4FRL7** *
DPST	On/Off	4	Quick Connect	0.50 in dia	1 ½ hp	774005	**1XWR1**
DPDT	On/On	6	Screw	0.50 in dia	1 ½ hp	774015	**1XWR4**
DPDT	On/Off/On	6	Quick Connect	0.50 in dia	1 ½ hp	774003	**1XWR8**
DPDT	Momentary On/Off/Momentary On	6	Screw	0.50 in dia	1 ½ hp	774000	**1XWT1**
DPDT	On/Off/On	6	Screw	0.50 in dia	1 ½ hp	774016	**1XWR7**
Toggle Switch Boot, Screw-On, Pkg. of 2						774020	**4FRL8**

**** Includes On/Off faceplate.***

3XC60

4X216

1X692

1A823

10C582

4X087

2X464

1X878

10C560

2X488

10C569

Panel-Mount Switches

Applications include electric motors, appliances, power tools, light fixtures, and instruments.

Note: Toggle switches have $\frac{15}{32}$-32UNS-2A threads.

Switch Function	Mounting Hole	AC Contact Rating	1-POLE Contact Form	1-POLE Terminals	1-POLE Item No.	2-POLE Contact Form	2-POLE Terminals	2-POLE Item No.
Lighted Rocker								
On/Off	0.830 in x 1.450 in	—	SPST	0.250 in Quick Connect Tab	**10C587**	—	—	—
Lighted Rocker with 120V Light								
On/Off	0.470 in x 1.070 in	10A @ 250V AC, 16A @ 125V AC	SPST	0.250 in Quick Connect Tab	**1A824**	—	—	—
On/Off	0.860 in x 1.070 in	15A @ 250V AC, 20A @ 125V AC	—	—	—	DPST	0.250 in Quick Connect Tab	**3XC58**
On/Off	0.830 in x 1.450 in	10A @ 250V AC, 15A @ 125V AC	SPST	0.250 in Quick Connect Tab	**3XC59**	—	—	—
On/Off	0.830 in x 1.450 in	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**3XC60**	—	—	—
On/Off	0.625 in x 1.625 in	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**4X216**	—	—	—
Lighted Rocker with 12V Light								
On/Off/On	0.830 in x 1.450 in	20A @ 12V	SPDT	0.250 in Quick Connect Tab	**10C585**	—	—	—
On/Off/On	0.830 in x 1.450 in	—	—	—	—	DPDT	0.250 in Quick Connect Tab	**10C586**
Miniature Push Button								
On/Off	½ in dia	3A @ 250V AC, 6A @ 125V AC	SPST	Screw	**1X692**	—	—	—
On/Off	½ in dia	10A @ 250V AC, 20A @ 125V AC	SPST	Screw	**10C568**	—	—	—
On/Mom. Off	½ in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**2X901**	—	—	—
On/Mom. Off	½ in dia	3A @ 277V AC, 6A @ 125V AC	SPST	Wire Lead	**10C567**	—	—	—
Off/Mom. On	½ in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**2X894**	—	—	—
Off/Mom. On	½ in dia	3A @ 250V AC, 6A @ 125V AC	SPST	Wire Lead	**10C566**	—	—	—
Polarity Reversing								
On/Off/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C576**
Reversing Toggle								
On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C577**
Mom. On/Off/Mom. On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C580**
Rocker								
On/Off	0.830 in x 1.450 in	10A @ 250V AC, 15A @ 125V AC	SPST	0.250 in Quick Connect Tab	**3XC53**	DPST	0.250 in Quick Connect Tab	**3XC55**
On/Off	0.830 in x 1.450 in	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**3XC54**	DPST	Screw	**3XC56**
On/Off	0.860 in x 1.070 in	15A @ 250V, 20A @ 125V	SPST	0.250 in Quick Connect Tab	**3XC57**	—	—	—
On/Off	0.470 in x 1.070 in	10A @ 250V AC, 16A @ 125V AC	SPST	0.250 in Quick Connect Tab	**1A822**	—	—	—
On/Off	0.470 in x 1.070 in	10A @ 250V AC, 16A @ 125V AC	SPST	0.250 in Quick Connect Tab	**1A823**	—	—	—
On/Off	0.830 in x 1.450 in	20A @ 12V	SPST	0.250 in Quick Connect Tab	**10C582**	—	—	—
Mom. On/Off/Mom. On	0.830 in x 1.450 in	20A @ 12V	—	—	—	DPDT	0.250 in Quick Connect Tab	**10C583**
Mom. On/Off	0.830 in x 1.450 in	10A @ 250V AC, 15A @ 125V AC	SPST	0.250 in Quick Connect Tab	**10C584**	—	—	—
Rotary								
On/Off	⅜ in	3A @ 125V AC	SPST	6 in Wire Lead	**4X215**	—	—	—
Off/On/On/On/On	$\frac{15}{32}$ in	6A @ 125V AC	SP4T	Solder Lug	**4X739**	—	—	—
Off/On/On/On	$\frac{15}{32}$ in	4A @ 125V AC	SP3T	Solder Lug	**4X087**	—	—	—
Toggle								
On/On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SP3T	Quick Connect	**10C575**	—	—	—
On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Quick Connect	**4X847**	DPDT	Quick Connect	**4X850**
On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C570**
On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Screw	**2X465**	DPDT	Screw	**2X468**
On/Off/On	0.50 in dia	10A @ 250V AC, 20A @ 125V AC	—	—	—	DPDT	Screw	**10C563**
On/Off/On	0.50 in dia	10A @ 250V AC, 20A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C561**
On/Off/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C571**
On/Off/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Quick Connect	**4X848**	DPDT	Quick Connect	**4X851**
On/Off/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Screw	**2X466**	DPDT	Screw	**2X469**
On/Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Quick Connect	**4X846**	DPST	Quick Connect	**4X849**
On/Off	0.50 in dia	10A @ 250V AC, 20A @ 125V AC	SPST	Quick Connect	**10C565**	DPST	Quick Connect	**10C560**
On/Off	0.50 in dia	16A @ 125V AC, 8A @ 250V AC	—	—	—	DPST	Screw	**2X488**
On/Off	0.50 in dia	3A @ 250V AC, 6A @ 125V AC	SPST	Screw	**1X687**	—	—	—
On/Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**2X464**	DPST	Screw	**2X467**
On/Off	0.50 in dia	10A @ 250V AC, 20A @ 125V AC	—	—	—	DPST	Screw	**10C562**
On/Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPST	Quick Connect	**10C569**
On/Off	0.50 in dia	10A @ 250V AC, 20A @ 125V AC	SPST	Quick Connect	**10C564**	DPST	Screw	**2X633**
On/Off	0.50 in dia	3A @ 250V AC, 6A @ 125V AC	SPST	Wire	**1X878**	—	—	—
On/Mom. Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**4X201**	—	—	—
Off/Circuit 1 On/ Circuit 1&2 Mom. On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	—	—	—	DPDT	Quick Connect	**10C581**
Mom. On/Off/Mom. On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Screw	**4X203**	—	—	—
Mom. On/Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPST	Screw	**4X200**	—	—	—
Circuit 1 On, Circuit 1&2 On, Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	SPDT	Quick Connect	**10C579**	—	—	—
3 Position, Circuit 1 On, Circuit 2 On, Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	DPDT	Quick Connect	**10C578**	—	—	—
Toggle with 12V Light								
On/Off/On	0.50 in dia	20A @ 12V	SPDT	Quick Connect	**10C573**	DPDT	Quick Connect	**10C574**
On/Off	0.50 in dia	20A @ 12V	SPST	Quick Connect	**10C572**	—	—	—

Contact Form	Terminals	Switch Function	Mounting Hole	AC Contact Rating	Item No.
3-Pole Toggle Switches					
3PST	Screw	On/Off	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	**4X208**
3PDT	Screw	On/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	**2X650**
3PDT	Screw	On/Off/On	0.50 in dia	10A @ 250V AC, 15A @ 125V AC	**2X594**
Accessory For Toggle Switches					
On/Off Legend Plate, Nickel Finish					**2X642**

24D392

24D415

24D433

24D451

Honeywell

NT Series Toggle Switches

- ½" dia. hole mounting
- Temp. range: -85° to 160°F

Feature a movable seal between the toggle lever and bushing and a sealed case to meet NEMA 3, 3R, 4, 13 and IP67/IP68 seal ratings. Suitable for aerial and scissor lifts, truck-mounted telehandlers, cranes and construction, agriculture and material handling equipment, factory-floor control units, and machine tool equipment manufacturers. UL Recognized. CSA Certified and CE Approved.

Contact Form	Switch Function	HP	SCREW TERMINALS, STEP BASE Mfr. Model	Item No.	QUICK CONNECT TERMINALS, STEP BASE Mfr. Model	Item No.	QUICK CONNECT TERMINALS Mfr. Model	Item No.
SPST	Mom. On/Off	½ hp	1NT1-6	**24D390**	—	—	—	—
	On/Off	1 hp	1NT1-2	**24D383**	—	—	31NT91-2	**24D429**
SPDT	Mom. On/Off/Mom. On	½ hp	1NT1-7	**24D392**	—	—	31NT91-7	**24D437**
	Mom. On/Off/On	½ hp	1NT1-5	**24D388**	—	—	31NT91-5	**24D433**
	Mom. On/On	½ hp	1NT1-8	**24D393**	—	—	—	—
	On/Off/On	1 hp	1NT1-1	**24D382**	—	—	31NT91-1	**24D428**
	On/On	1 hp	1NT1-3	**24D385**	—	—	31NT91-3	**24D431**
DPST	Mom. On/Off	½ hp	2NT1-6	**24D413**	—	—	—	—
	On/Off	1 hp	2NT1-2	**24D405**	—	—	—	—
DPDT	Mom. On/Off/Mom. On	½ hp	2NT1-7	**24D415**	2NT91-7	**24D425**	32NT91-7	**24D451**
	Mom. On/Off/On	½ hp	2NT1-5	**24D410**	—	—	32NT91-5	**24D447**
	Mom. On/On	½ hp	2NT1-8	**24D417**	2NT91-8	**24D427**	32NT91-8	**24D453**
	Mom. On/On/Mom. On	½ hp	2NT1-70	**24D416**	—	—	32NT91-70	**24D452**
	Mom. On/On/On	½ hp	2NT1-50	**24D411**	—	—	—	—
	On/Off/On	1 hp	2NT1-1	**24D402**	—	—	—	—
	On/On	1 hp	2NT1-3	**24D407**	—	—	—	—
	On/On/On	1 hp	2NT1-10	**24D403**	—	—	—	—
	On/On/On	1 hp	2NT1-12	**24D404**	—	—	—	—
4PDT	On/Off/On	1 hp	4NT1-1	**24D454**	—	—	—	—
	On/On	1 hp	4NT1-3	**24D458**	—	—	—	—
	On/On/On	1 hp	4NT1-10	**24D455**	—	—	—	—

EATON

Toggle Switches

Include panel mounting. XT-Series are easy to install and have 0.48" dia. hole mounting. 7000-Series feature design flexibility to meet a variety of applications.

21EV90

21EW16

Contact Form	Switch Function	HP	SCREW TERMINALS Mfr. Model	Item No.	QUICK CONNECT TERMINALS Mfr. Model	Item No.	SOLDER LUG TERMINALS Mfr. Model	Item No.
SPST	On/Off	¾ hp	7500K14	**21EV88**	7501K15	**21EV90**	7546K38	**21EV98**
	On/Off	¾ hp	7546K36	**21EV97**	XTD1A1A2	**21EW16**	7501K13	**21EV89**
	On/Off	¾ hp	XTD1A2A2	**21EW17**	7546K40	**21EV99**	XTD1A3A2	**21EW18**
	Mom. On/Off	¾ hp	XTD1F2A2	**21EW20**	XTD1F1A2	**21EW19**	XTD1F3A2	**21EW21**
SPDT	On/On	¾ hp	7504K4	**21EV94**	XTD2C1A	**21EW25**	7505K4	**21EV95**
	On/On	¾ hp	XTD2C2A	**21EW26**	—	—	XTD2C3A	**21EW27**
	On/Off/On	¾ hp	7502K13	**21EV91**	XTD2B1A	**21EW22**	7503K13	**21EV92**
	On/Off/On	¾ hp	XTD2B2A	**21EW23**	7503K15	**21EV93**	XTD2B3A	**21EW24**
	On/Off/Mom. On	¾ hp	XTD2G2A	**21EW35**	XTD2G1A	**21EW34**	XTD2G3A	**21EW36**
	On/Mom. On	¾ hp	XTD2D2A	**21EW29**	XTD2D1A	**21EW28**	XTD2D3A	**21EW30**
	Mom. On/Off/Mom. On	½ hp	7509K5	**21EV96**	—	—	—	—
	Mom. On/Off/Mom. On	¾ hp	XTD2E2A	**21EW32**	XTD2E1A	**21EW31**	XTD2E3A	**21EW33**
DPST	On/On	¾ hp	7564K6	**21EW07**	—	—	7565K5	**21EW08**
	On/Off	¾ hp	7560K5	**21EW01**	7561K6	**21EW03**	7561K4	**21EW02**
	On/Off	¾ hp	7803K31	**21EW10**	—	—	7803K11	**21EW11**
	On/Off	5 hp	7818K1	**21EW40**	—	—	—	—
	Off/On	¾ hp	—	—	7565K7	**21EW09**	—	—
DPDT	On/Off/On	¾ hp	7562K4	**21EW04**	7563K6	**21EW06**	7563K4	**21EW05**
	On/Off/On	1 ½ hp	XTD4B2A	**21EW38**	XTD4B1A	**21EW37**	—	—
3PDT	On/On	¾ hp	7702K2	**21EW13**	—	—	—	—
4PST	On/Off	¾ hp	7690K8	**21EW14**	—	—	—	—
4PDT	On/On	¾ hp	7694K4	**21EW15**	—	—	—	—
3PST	On/Off	¾ hp	7700K2	**21EW12**	—	—	—	—

Honeywell

TS Series Toggle Switches

- Rated 20A at 125VAC, 10A at 277VAC
- HP rating: 1-pole ¾ HP, 2-pole ½ HP
- ½" dia. hole mounting

24D501

Switch Function	Contact Form	SCREW TERMINALS Mfr. Model	Item No.	QUICK CONNECT TERMINALS Mfr. Model	Item No.
Momentary On/Off	SPST	11TS15-6	**24D488**	—	—
Momentary On/Off	DPST	12TS15-6	**24D498**	—	—
Momentary On/Off/Momentary On	SPDT	11TS15-7	**24D489**	11TS95-7	**24D491**
Momentary On/Off/Momentary On	DPDT	12TS15-7	**24D499**	—	—
Momentary On/Off/On	SPDT	11TS15-5	**24D487**	—	—
On/Off	SPST	11TS15-2	**24D486**	11TS95-2	**24D490**
On/Off	DPST	12TS15-2	**24D496**	—	—
On/Off/On	SPDT	11TS15-1	**24D485**	—	—
On/Off/On	DPDT	12TS15-1	**24D495**	—	—
On/On	DPDT	12TS15-3	**24D497**	12TS95-3	**24D501**

2VLP9

2LND7

2LNA5

Rocker Switches

Panel-mount switches are for appliances, equipment, power tools, motor and lighting control, and other uses. UL Listed. Tabs are ¼" quick-connect.

Contact Form	No. of Connec.	Switch Function	AC Contact Rating	BLACK Screw Terminals Item No.	BLACK Tab Terminals Item No.	RED Screw Terminals Item No.	RED Tab Terminals Item No.	IVORY Screw Terminals Item No.	IVORY Tab Terminals Item No.
0.540 in x 1.140 in Mounting Hole									
SPDT	3	On/Off/On	12A @ 250V, 16A @ 125V	—	**2LNA1**	—	**2LNA2**	—	—
0.830 in x 1.450 in Mounting Hole									
SPST	2	Momentary On/Off	15A @ 250V, 20A @ 125V	**2LNC2**	**2LNC3**	**2LNC4**	**2LNC5**	**2LNC6**	**2LNC7**
SPST	2	On/Off	15A @ 277V, 20A @ 125V	—	**2VLP9**	—	—	—	—
SPST	2	On/Off	15A @ 250V, 20A @ 125V	**2VLR1**	—	**2LNA6**	**2LNA7**	**2LNA8**	—
SPST	3	On/Off Lighted	15A @ 250V, 20A @ 125V	**2VLR7**	—	—	—	—	—
SPDT	3	Momentary On/Off/ Momentary On	15A @ 250V, 20A @ 125V	**2LND5**	—	**2LND7**	—	—	—
SPDT	3	On/Off/On	15A @ 250V, 20A @ 125V	**2LNC8**	**2LNC9**	**2LND1**	**2LND2**	**2LND3**	—
SPDT	3	On/On	15A @ 250V, 20A @ 125V	**2LNE2**	—	—	**2LNE5**	**2LNE6**	**2LNE7**
DPST	4	Momentary On/Off	15A @ 250V, 20A @ 125V	**2LNF3**	**2LNF4**	**2LNF5**	**2LNF6**	**2LNF7**	**2LNF8**
DPST	4	On/Off	15A @ 250V, 20A @ 125V	**2VLR3**	—	**2LNE8**	—	**2LNF1**	**2LNF2**
DPST	4	On/Off	15A @ 277V, 20A @ 125V	—	**2VLR2**	—	—	—	—
DPDT	6	Momentary On/Off/ Momentary On	15A @ 250V, 20A @ 125V	**2LNH3**	—	**2LNH5**	**2LNH6**	**2LNH7**	—
DPDT	6	On/Momentary On	15A @ 250V, 20A @ 125V	**2LNH9**	**2LNJ1**	**2LNJ2**	**2LNJ3**	**2LNJ4**	**2LNJ5**
DPDT	6	On/Off/Momentary On	15A @ 277V, 20A @ 125V	**29FG39**	—	—	**29FG42**	**29FG43**	—
DPDT	6	On/Off/On	15A @ 250V, 20A @ 125V	**2LNF9**	—	**2LNG2**	—	**2LNG4**	**2LNG5**
DPDT	6	On/On	15A @ 250V, 20A @ 125V	**2LNG6**	**2LNG7**	**2LNG8**	**2LNG9**	**2LNH1**	**2LNH2**
0.870 in x 1.160 in Mounting Hole									
SPST	2	On/Off	20A @ 125/250V	—	—	—	**2LNA5**	—	—
DPST	4	On/Off	20A @ 125/250V	—	**29FG25**	—	**29FG26**	—	—
DPDT	6	Momentary On/Off/ Momentary On	20A @ 125/250V	—	**29FG35**	—	—	—	—
DPDT	6	On/Off/On	20A @ 125/250V	—	**29FG29**	—	—	—	—
DPDT	6	On/On	20A @ 125/250V	—	**29FG31**	—	—	—	—

21EV72

NGR Series Illuminated Rocker Switches

- Rated ¾ HP
- ¼" tab terminals

Durable and ergonomic design with a matte finish. Suitable for a variety of vehicle and mobile applications. Illuminated models require rocker switch, 2 lenses, switch cover, and connector available separately.

Contact Form	Switch Function	Mfr. Model	Item No.
SPST	Off/On	NGR15061BNAAN	**21EV72**
	On/On	NGR15481BNAAN	**21EV73**
SPDT	On/Off/On	NGR15681BNAAN	**21EV74**
	Momentary On/Off/Momentary On	NGR15881BNAAN	**21EV75**
DPST	Off/On	NGR25061BNAAN	**21EV77**
DPDT	On/On	NGR25481BNAAN	**21EV78**
	On/Off/On	NGR25681BNAAN	**21EV79**
	Momentary On/Off/Momentary On	NGR25881BNAAN	**21EV80**

Description	GREEN Item No.	RED Item No.	AMBER Item No.	BLACK Item No.
Accessories For Illuminated Switches				
Rocker Switch Lens	**21EV84**	**21EV85**	**21EV86**	—
Rocker Switch Cover, Top and Bottom Opening	—	—	—	**21EV83**
Rocker Switch Connector	—	—	—	**21EV87**

Lighted Rocker
3JC04

Lighted Toggle
3HZ81

Panel-Mount DC Toggle and Rocker Switches

Popular replacement switches for marine applications. 12VDC rated, 5A lamp load, 15A inductive load. Toggle switches fit panels to 3⁄16" thick with provided backup nut, to ¼" thick without that nut. Toggle switches require a ½" mounting hole. Rocker switches require a 1½" x ⅞" rectangular opening.

Description	Contact Form	Switch Function	Mfr. Model	Item No.
Rocker	SPST	On/Off	MR11SP	**3JC02**
Rocker	SPST	Momentary On/Off	MR11MSP	**3JC01**
Rocker	SPDT	On/Off/On	MR123SP	**3JC07**
Rocker	SPDT	Momentary On/Off/On	MR123MSP	**3JC06**
Rocker	SPDT	Momentary On/Off/Momentary On	MR123MMSP	**3JC05**
Rocker	DPST	On/Off	MR21SP	**3JC08**
Rocker	DPDT	On/Off/On	MR223SP	**3JC11**
Rocker	DPDT	Momentary On/Off/Momentary On	MR223MMSP	**3JC10**
Lighted Rocker (Red)	SPST	On/Off	MR11LRSP	**3HZ99**
Lighted Rocker (Red)	SPDT	On/Off/On	MR123LRSP	**3JC04**
Toggle	SPST	Momentary On/Off	M11MSP	**3HZ85**
Toggle	SPDT	On/Off/On	M123SP	**3HZ92**
Toggle	SPDT	Momentary On/Off/On	M123MSP	**3HZ91**
Toggle	SPDT	Momentary On/Off/Momentary On	M123MMSP	**3HZ90**
Toggle	DPST	On/Off	M21SP	**3HZ93**
Toggle	DPDT	On/Off/On	M223SP	**3HZ96**
Toggle	DPDT	On/Off/On	M223JSP	**3HZ94**
Toggle	DPDT	Momentary On/Off/Momentary On	M223MMSP	**3HZ95**
Lighted Toggle (Green)	SPST	On/Off	M11LRGSP	**3HZ81**
Lighted Toggle (Red)	SPST	On/Off	M11LRSP	**3HZ82**
Lighted-Tip Toggle (Red)	SPST	On/Off	M11LTR	**3HZ83**
Push Button	SPST	Off/Momentary On	MH11	**3HZ97**

Description	Mfr. Model	Item No.
Black Silicone Rubber Boot Bonded to Brass Nut, Fits Any Nonlighted Toggle Switch	MSB1	**3JC12**
Black Push Button (Horn) Boot, Fits No. 3HZ97 Horn Push Button	MHB11	**3HZ98**

Push Button
3HZ97

Rubber Boot
3JC12

5KX03

2W809

2W810

1AGR4

2W463

1AGP3

1AGP2

2W807

LINEMASTER®
AMERICA'S FOOT SWITCH LEADER

Linemaster® Foot Switches

Series	Contact Form	Current Rating	HP	Voltage Rating	NEMA Rating	Foot-notes	Cord Type	Cord Length	Material	Color	L	W	D	Mfr. Model	Item No.
Light Duty Foot Switch, Momentary Action															
Air-Seal - Air	SPDT	20	1, 2	125/250V AC	4	8	Air Switch	10 ft	Steel	Black	2 ⅞ in	2 ¾ in	1 ¼ in	41SH12	**5KX03**
Compact	SPDT-NO	10	½	125/250V AC	1	—	16/3	6 ft	Steel	Black	2 ⅞ in	2 ½ in	1 9/32 in	491-SC36MP	**1AGP5**
Compact	SPDT-NO	10	½	125V AC	1	1	16/3	8 ft	Steel	Black	2 ⅞ in	2 ½ in	1 ¼ in	491-SC3	**2A190**
Compact	SPDT	10	½	125/250V AC	1	10	—	—	Steel	Black	2 ⅞ in	2 ½ in	1 ¼ in	491-S	**2W809**
Executive	(2) SPDT	10	½	125/250V AC	1	3	—	—	Die Cast Zinc	Gray	4 ¾ in	4 ¼ in	1 ⅝ in	72	**4A714**
Treadlite II	SPDT-NO	15	½	125V AC	1	1	14/3	8 ft	Steel	Black	3 ½ in	2 ⅝ in	1 in	T-91-SC3-A	**2A191**
Treadlite II	SPDT	15	½	125/250V AC	1	10	—	—	Steel	Black	3 ½ in	2 ⅝ in	1 in	T-91-S	**2W810**
Treadlite II - Stainless Steel	SPST	3	—	125/250V AC	1, 4X, 6, 6P	—	18/3	8 ft	Stainless Steel	SS	3 ½ in	2 ⅝ in	1 in	T-91-SWANO38S	**5KX08**
Treadlite II - Stainless Steel	SPDT-NO	3	—	125V AC	1, 4X, 6, 6P	1	18/3	8 ft	Stainless Steel	SS	3 ½ in	2 ⅝ in	1 in	T-91-SWANO3S	**1AGP6**
Vanguard - Air	SPDT	20	(1)/(2)	125/250V AC	1	8	Air Switch	10 ft	PVC	Black	2 ¾ in	4 ⅝ in	1 ¼ in	81SH12	**1AGP7**
General Purpose Foot Switch, Maintained Action															
Clipper - Single	SPDT	20/10	1½	125/250V AC	1	10	—	—	Cast Iron	Black	4 ½ in	3 ½ in	1 ½ in	632-DA	**2W808**
General Purpose Foot Switch, Momentary Action															
Aquiline® - Metal	(2) SPDT-NO	13	½	125/250V AC	1	9	16/4	8 ft	Die Cast Zinc	Black	5 ½ in	7 15/16 in	1 ⅜ in	TWIN 971-SMC48	**1AGP4**
Classic IV - Guarded	SPDT	16	½	125/250V AC	13, 2, 4, 6, 6P	4	—	—	Aluminum	Orange	7 in	6 in	4 ½ in	88SH1-05	**1AGR3**
Classic IV - Guarded	(2) SPDT	16	½	125/250V AC	13, 2, 4, 6, 6P	49	—	—	Aluminum	Org/Blk	7 in	11 in	4 ½ in	TWIN 88SH1-05	**1AGR4**
Classic IV - No Guard	SPDT-NO	16	½	125/250V AC	13, 2, 4, 6, 6P	—	14/3	8 ft	Aluminum	Black	7 in	4 ½ in	2 ⅝ in	88SN1B-05	**1AGR2**
Classic IV - No Guard	SPDT	16	½	125/250V AC	13, 2, 4, 6, 6P	—	—	—	Aluminum	Black	7 in	4 ½ in	2 ⅝ in	88SN1-05	**1AGP9**
Classic IV - No Guard	(2) SPDT	16	½	125/250V AC	13, 2, 4, 6, 6P	9	—	—	Aluminum	Black	7 in	7 ⅜ in	2 ⅝ in	TWIN 88SN1-05	**1AGR1**
Clipper - Single	SPST-NO	15	¾	125V AC	1	1	14/3	8 ft	Cast Iron	Black	4 ½ in	3 ½ in	1 ½ in	632-SC3	**2W463**
Clipper - Single	SPDT	20	1	125/250V AC	1	10	—	—	Cast Iron	Black	4 ½ in	3 ½ in	1 ½ in	632-S	**5X361**
Clipper - Single	(2) SPDT	15/10	½	125/250V AC	1	710	—	—	Cast Iron	Black	4 ½ in	3 ½ in	1 ½ in	636-S	**4A713**
Clipper - Twin & Wide Treadle	SPDT	20	1	125/250V AC	1	10	—	—	Cast Iron	Black	5 ½ in	7 in	1 ¾ in	642-S	**5WB13**
Clipper - Twin & Wide Treadle	(2) SPDT	20	1	125/250V AC	1	9	—	—	Cast Iron	Black	4 ½ in	8 ⅜ in	1 ⅞ in	TWIN 632-S	**1AGP3**
Explosion Proof - Industrial 500	SPDT	15 (10)	¾ (1)	125/250V AC	2, 7D, 9F	4	—	—	Aluminum	Org/Blk	10 ¼ in	11 in	4 ⅜ in	592-EX	**1AGP1**
Explosion Proof - Industrial 500	(2) SPDT	15 (10)	¾ (1)	125/250V AC	2, 7D, 9F	49	—	—	Aluminum	Org/Blk	10 ¼ in	11 in	4 ⅜ in	597-EX	**1AGP2**
Medium Duty Foot Switch, Momentary Action															
Varior - Potentiometer	N/A	15	—	125 to 250V AC	1	—	18/6	25 ft	Steel	Black	12 ¾ in	4 ½ in	4 in	OHASAA-1K	**4KA16**
Varior - Potentiometer	—	—	—	—	1	—	18/6	25 ft	Steel	Black	10 ¼ in	4 ½ in	4 in	OHASAB-10K	**4KA17**
Varior - Potentiometer	—	—	—	—	1	—	18/6	30 ft	Steel	Black	10 ¼ in	4 ½ in	4 in	OHASAD-10K	**4KA18**
Heavy Duty Foot Switch, Momentary Action															
Hercules Anti-Trip	SPDT	20	1	125/250V AC	13, 2, 4	45	—	—	Cast Iron	Orange	10 in	6 in	5 ½ in	511-BG	**3X680**
Hercules - Full Shield	SPDT	20	1	125/250V AC	13, 2, 4	4	—	—	Cast Iron	Orange	9 in	6 in	4 ½ in	531-SWH	**2W807**
Hercules - Full Shield	DPDT	20	1	125/250V AC	13, 2, 4	4	—	—	Cast Iron	Orange	9 in	6 in	4 ½ in	532-SWH	**4A712**
Hercules - OX Shield	SPDT	20	1	125/250V AC	13, 2, 4	46	—	—	Cast Iron	Orange	9 in	6 in	6 in	531-SWHOX	**5KX05**
Foot Switch Guards															
For use with general purpose and light-duty foot switches									Steel	Orange	6 in	6 in	4 ½ in	522-B14	**2W811**
For use with general purpose and light-duty foot switches, oversized									Steel	Orange	6 in	6 in	6 ¼ in	522-F28	**4KA15**
For use with twin foot switches									Steel	Orange	6 in	11 in	4 ½ in	522-B12	**4KA19**
For use with twin foot switches, oversized									Formed Steel	Orange	6 in	11 in	6 ¼ in	522-D28	**1AGP8**

Footnotes: 1—Includes piggy-back plug and connector. 3—Reversing with mechanical interlock. 4—Includes foot guard. 5—Antitrip and gate help prevent accidental actuation. 6—Extra-large opening. 7—Two-stage switching. 8—Air bulb/electric snap switch. 9—Two pedal operation. 10—Includes integral strain relief.

SQUARE D
by Schneider Electric

Square D Foot Switches

- 120-600V
- Yellow
- NEMA 2,4,13 rating

2ET95

2ET87

2ET85

Features	Contact Form	Action	Current Rating	Voltage Rating	NEMA Rating	Color	Material	L	W	D	Mfr. Model	Item No.
Heavy Duty Foot Switch												
Fully Shielded	SPDT	Momentary	10	120/240/480V AC	13, 2, 4	Orange	Cast Aluminum	—	—	—	9002AW119	**2ET88**
Guarded	SPST	Maintained	6/3	120V AC	13, 2, 4	Yellow	Cast Aluminum	9 in	5 17/32 in	4 27/32 in	9002AW12	**2ET89**
Guarded	SPDT	Momentary	15	120 to 600V AC	13, 2, 4	Yellow	Steel	9 in	5 17/32 in	4 27/32 in	9002AW2	**2ET95**
Guarded	DPDT	Momentary	3	120 to 600V AC	13, 2, 4	Yellow	Steel	9 in	5 17/32 in	4 27/32 in	9002AW14	**2ET94**
Oversized Guard	SPDT	Momentary	15	120 to 600V AC	13, 2, 4	Yellow	Steel	11 ⅛ in	6 13/32 in	6 17/64 in	9002AW132	**2ET92**
Oversized Guard with Safety Door	SPDT	Momentary	15	120 to 600V AC	13, 2, 4	Yellow	Steel	11 ⅛ in	6 13/32 in	6 17/64 in	9002AW117	**2ET87**
Oversized Guard with Safety Door	DPDT	Momentary	10	120 to 600V AC	13, 2, 4	Yellow	Steel	11 ⅛ in	6 13/32 in	6 17/64 in	9002AW124	**2ET90**
Shielded	DPDT	Momentary	—	120/240V AC	13, 2, 4	Orange	Cast Aluminum	—	—	—	9002AW133	**2ET93**
Shielded	(2) DPDT	Momentary	10	120/240/480V AC	13, 2, 4	Orange	Cast Aluminum	4 21/25 in	5 19/50 in	—	9002AW6	**2ET97**
Shielded	SPDT	Spring Return	10	120/240/480V AC	13, 2, 4	Orange	Cast Aluminum	—	—	—	9002AW7	**2ET98**
Unguarded	SPDT	Momentary	15	120 to 600V AC	13, 2, 4	Yellow	Cast Aluminum	8 9/16 in	4 ½ in	3 ⅞ in	9002AW1	**2ET85**
Unguarded	DPDT	Momentary	3	120 to 600V AC	13, 2, 4	Yellow	Steel	8 9/16 in	4 ½ in	3 ⅞ in	9002AW13	**2ET91**
Unshielded	SPST	Maintained	—	120/240V AC	13, 2, 4	Orange	Cast Aluminum	8 14/25 in	4 ½ in	3 22/25 in	9002AW11	**2ET86**
Unshielded	(2) DPDT	Momentary	10	120/240/480V AC	13, 2, 4	Orange	Cast Aluminum	9 21/25 in	10 87/100 in	5 ¾ in	9002AW5	**2ET96**

Foot Switch Safety

It is the responsibility of the foot switch user to determine the suitability of a particular foot switch for its intended use and to be certain that it complies with all federal, state, and local safety and health regulations. Using foot switches on machinery that lacks effective point-of-operation safeguards can cause serious injury. Foot switches should be used only where point-of-operation and pinch-point guarding devices have been properly installed and are utilized to protect the operator's hands.

SQUARE D by Schneider Electric

Class 9007 Heavy-Duty Limit Switches

- Enclosures: NEMA 1, 2, 4, 6, 6P, 12, and 13 (IP65, IP66, IP67)
- Contacts rated 10A, 600V
- Limit switch arm required
- ½" NPT conduit entry

Bodies and heads are die-cast zinc alloy. Oiltight for efficient operation. For additional limit switch replacement parts, see Grainger.com®. UL Listed and CSA and CE Certified. Hazardous location units are UL Listed for Class I Div. 1 Groups B, C, D and Class II Groups E, F, G.

Lever Arm
5B087

Side Plunger
5B083

Wobble Stick
5B081

Adjustable Lever Arm
5B065

Standard Lever Arm
5B058

Forked Lever Arm
5B060

Replacement Contact Body
2EG11

Replacement Receptacle
2EG22

Looped Arm
5B066

Stainless Steel Rod
5B069

Description	Contact Form	Mfr. Model	Item No.	Item No	Item No	Item No
Lever Arm Types Adjustable CW and CCW, Spring Return, Lever Arm Required			**Standard 10° Travel**	**Low Differential 5° Travel**	**Light Torque 25 oz./in. 10° Travel**	**Maintained Lever Arms**
Standard Box Plug-In	1NC/1NO	9007C54	**5B087**	**5B088**	**5B080**	**5B086**
Standard Box Plug-In	2NC/2NO	9007C62	**5B078**	**5B079**	**2UYH3**	**5B077**
Standard Box Plug-In, 2-Stage	2NC/2NO	9007C66	**2EF92**	—	**2UYH4**	—
Compact Box Plug-In	1NC/1NO	9007C52	**2EF74**	**2EF73**	**2EF80**	**2UYH7**
Hazardous Location	1NC/1NO	9007CR53	**2EG17**	—	**2UYH5**	**2UYH8**
Hazardous Location	2NC/2NO	9007CR61	**2EG19**	—	**2UYH6**	**2UYH9**
Replacement Heads for Above	—	9007	**2EF50**	**2EF27**	**2EG92**	**2EF71**
Neutral (Off)	2NC/2NO	9007C68T	**5B071**	**5B070**	—	—
Side Plunger Types Spring Return			**Side Roller Vertical**	**Side Push Rod**	**Adj. Side Push Rod**	**Maintained Push Rod**
Standard Box Plug-In	1NC/1NO	9007C54	**5B083**	**5B082**	**6B407**	**2UYJ9**
Standard Box Plug-In	2NC/2NO	9007C62	**5B074**	**5B073**	**6B408**	**2UYK1**
Compact Box Plug-In	1NC/1NO	9007C52	**2EF77**	—	**2UYJ7**	**2UYK2**
Hazardous Location	1NC/1NO	9007CR53	**2UYJ3**	**2UYJ5**	—	**2UYK3**
Hazardous Location	2NC/2NO	9007CR61	**2UYJ4**	**2UYJ6**	**2UYJ8**	**2UYK4**
Replacement Heads for Above	—	9007	**2EG54**	**2EG61**	**2EG62**	**2UYK5**
Top Plunger Types Spring Return			**Roller**	**Push Rod**	**Adj. Push Rod**	**Palm Operated**
Standard Box Plug-In	1NC/1NO	9007C54	**5B085**	**5B084**	**2EF85**	**2UYL4**
Standard Box Plug-In	2NC/2NO	9007C62	**5B076**	**5B075**	**2UYK9**	—
Compact Box Plug-In	1NC/1NO	9007C52	**2EF75**	**2EF76**	**2UYL1**	**2UYL6**
Hazardous Location	1NC/1NO	9007CR53	**2EG18**	**2UYK7**	**2UYL2**	—
Hazardous Location	2NC/2NO	9007CR61	**2UYK6**	**2UYK8**	**2UYL3**	**2UYL8**
Replacement Heads for Above	—	9007	**2EG24**	**2EG35**	**2EG53**	**2UYL9**
Wobble Stick Types			**Wire Extensions**	**Delrin® Extensions**	**Coil Spring Extensions**	**Cat Whiskers**
Standard Box Plug-In	1NC/1NO	9007C54	**2EF86**	**5B081**	**2F990**	**2F992**
Standard Box Plug-In	2NC/2NO	9007C62	**2UYN2**	**5B072**	**2UYN6**	**2UYP1**
Compact Box Plug-In	1NC/1NO	9007C52	**2UYN3**	**2EF79**	**2UYN7**	—
Hazardous Location	1NC/1NO	9007CR53	**2UYN4**	—	**2UYN8**	**2UYP3**
Hazardous Location	2NC/2NO	9007CR61	**2UYN5**	**2UYN1**	**2UYN9**	**2UYP4**
Replacement Heads for Above	—	9007	**2EG75**	**2EG74**	**2EG82**	**2EG83**

Actuator Type	Roller Material	Arm Length	ROLLER DIA. x WIDTH 0.63 in x 0.25 in Item No.	0.63 in x 0.63 in Item No.	0.75 in x 0.25 in Item No.	0.75 in x 0.63 in Item No.	1.0 in x 0.63 in Item No.
Lever Arms for Rotary Heads							
Standard Roller	Oil Impregnated Sintered Iron	1.38 in	**2EF62**	**2EF67**	**2EF63**	**2UYP6**	—
Standard Roller	Oil Impregnated Sintered Iron	1.5 in	**2EG86**	**2UYP5**	**5B059**	**2EG87**	—
Standard Roller	Oil Impregnated Sintered Iron	2 in	**2EF94**	**2EG02**	**2EF95**	**2UYP7**	—
Standard Roller	Oil Impregnated Sintered Iron	2.5 in	**2EG26**	—	**2EG27**	**2EG28**	—
Standard Roller	Oil Impregnated Sintered Iron	3 in	**2EG38**	—	**2EG39**	**2EG40**	—
Standard Roller	Nylon	1.38 in	**2UYP8**	**2UYR4**	**2UYR9**	—	**2UYT1**
Standard Roller	Nylon	1.5 in	**2UYP9**	**2UYR5**	**5B058**	—	**2UYT2**
Standard Roller	Nylon	2.5 in	—	**2UYR7**	—	—	—
Standard Roller	Nylon	3 in	—	**2UYR8**	—	—	—
Forked Roller	Oil Impregnated Sintered Iron	1.5 in	**2EG84**	—	**5B060**	—	—
Bendable Roller	Oil Impregnated Sintered Iron	0.88 in to 4.00 in	**5B063**	**2EG72**	—	—	—
Adjustable Roller	Oil Impregnated Sintered Iron	0.88 in to 4.00 in	**5B065**	**2EG64**	—	—	—
Adjustable Roller	Nylon	0.88 in to 4.00 in	**5B064**	—	—	—	**2EG67**

Description	Contact Form	Mfr. Model	Item No.
Replacement Contact Bodies			
Standard Body	1NO/1NC	9007CO54	**2EG11**
Standard Body	2NO/2NC	9007CO62	**2EG13**
Compact Body	1NO/1NC	9007CO52	**2EG10**
Standard Body 2-Stage	2NO/2NC	9007CO66	**2UYJ1**
Standard Body Neutral Off	2NO/2NC	9007CO68	**2UYJ2**
Replacement Receptacles			
For Use With Standard Body, 1NO/1NC Units	1NO/1NC	9007CT54	**2EG22**
For Use With Standard Body, 2NO/2NC Units	2NO/2NC	9007CT62	**2EG23**
For Use With Compact Body, 1NO/1NC Units	1NO/1NC	9007CT52	**2EG21**

Description	Arm Length	Item No.
Replacement Rods		
Stainless Steel	10 in	**5B069**
Steel Spring	12 in	**5B068**
2" Looped Arm	5.5 in	**5B066**
Delrin® Spring	12 in	**5B067**
Delrin® Extension	3.5 in	**2EH12**
Coil Spring Extension	3.5 in	**2EH13**

Looking for more Dayton and Honeywell Heavy-Duty Switches? See Grainger.com for even more options.

Dayton
Honeywell

Top Push Rod Plunger Adjustable
11X452

12V052

Type AW Limit Switches

SQUARE D by Schneider Electric

- 600V max.
- 15A
- Enclosures: NEMA 1, 2, 4, 12, and 13
- Plunger types feature a micrometer adjustment

Precision switches are oiltight and dust-tight and can be used in extremely low ambient temps.: -65°F for lever types, 0°F for plunger types. Die-cast zinc housing. Lever arms sold separately; see page 256. UL Listed, CSA and CE Certified.

2EF40

Actuator Style	Actuator Location	Travel	Movement	Contact Form Switches	Operating Force	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
Compact Limit Switch Body, Non-Plug In										
Rotary, No Lever	Side	Total Travel 90°	CW, CCW	1NC/1NO	2.75 in.-lb.	2.38 in	3.47 in	1.38 in	9007AO16	**2FL89** †
Compact Limit Switch Body, Plug In										
Rotary, No Lever	Side	Total Travel 90°	CW, CCW	1NC/1NO	2.75 in.-lb.	2.28 in	3.47 in	1.38 in	9007AO12	**2FL88** †
General Purpose Limit Switch										
Plunger, Roller	Top	0.25 in	Horizontal	1NC/1NO	3.0 lb	2.22 in	3.68 in	1.44 in	9007AW32	**2EF45**
Heavy Duty Limit Switch										
No Lever, Rotary	Side	Total Travel 300°	CCW, CW	1NC/1NO	2.75 in-lb	3.0 in	3.68 in	1.44 in	9007AW16	**2EF42** †
No Lever, Rotary	Side	Total Travel 300°	CCW, CW	1NC/1NO	2.75 in-lb	2.39 in	3.68 in	1.44 in	9007AW12	**2EF40** †
No Lever, Rotary	Side	Total Travel 300°	CCW, CW	1NC/1NO	2.75 in-lb	3.0 in	3.68 in	1.44 in	9007AW14	**2EF41** †
No Lever, Rotary	Side	Total Travel 300°	CCW, CW	2NC/2NO	2.75 in-lb	3.0 in	3.68 in	1.44 in	9007AW18	**2EF43** †
Plunger, Roller	Top	0.25 in	Horizontal	1NC/1NO	3.0 lb	2.53 in	3.68 in	1.44 in	9007AW36	**2EF46**
Plunger	Top	0.25 in	Vertical	1NC/1NO	3.0 lb	2.53 in	3.68 in	1.44 in	9007AW46	**2EF49**

† Field convertible to CW operation.

Severe-Duty Oiltight Limit Switches

SQUARE D by Schneider Electric

UL Listed, CSA and CE Certified.

5B056

5B090

Movement	Operating Force	Contact Form Switches	Mfr. Model	Item No.
Severe Duty Limit Switches, Rotary, No Lever				
CW	12.0 in-lb	SPDT	9007TUB1	**5B056**
CCW	12.0 in-lb	SPDT	9007TUB5	**5B053**
CCW, CW	12.0 in-lb	SPDT	9007TUB4	**5B054**
CCW Maintained, CW Maintained	8 in-lb	SPDT	9007TUB12	**5B055**
Foundry Duty Limit Switches, Rotary, No Lever				
CCW	12.0 in-lb	SPDT	9007FTUD5	**21HK24**
CCW, CW	12.0 in-lb	SPDT	9007FTUB4	**2EG60**

Actuator Type	Arm Length	Roller Position	Roller Dia.	Roller Width	Mfr. Model	Item No.
SQUARE D Limit Switch Lever Arms						
For Use With: 9007C, Mfr. No. 9007T/FT						
Standard Roller	1.5 in	Outside Offset	0.75 in	0.25 in	9007B1	**5B090**
Standard Roller	2.5 in	Outside Offset	0.75 in	0.5 in	9007B22	**5B089**
Standard Roller	2.5 in	Front	1.63 in	0.5 in	9007B24	**2EF55**
Forked Roller, 90°	1.5 in	Same Side	0.75 in	0.25 in	9007X1	**5B052**
Forked Roller, 120°	1.5 in	Same Side	1.0 in	0.25 in	9007J2	**5B062**
Conveyor Edge Guide	8.4375 in	Vertical Mount	1.5 in	3.75 in	9007R21	**5B057**

Series D4A Limit Switches

OMRON®

- ½"-14 NPT conduit entry, terminal screw connection
- Operating temp.: side rotary, -40° to 238°F; except 2CLR9; all top plungers and flexible rods, 21° to 238°F
- Enclosures: NEMA 3, 4, 4X, 6P, 12, and 13; IP67
- Load rating: SPDT double break, 10A max. at 125VAC; DPDT double break: 5A max. at 125VAC
- Mechanical life: SPDT double break, 50 million operations; DPDT double break, 30 million operations

Heavy-duty plug-in switches have a double seal on the head and complete gasket cover. Provide Class 1 protection against electrical shock.

Side rotary switches are user-selectable CW, CCW, or both. UL Listed and CSA Certified.

Side Rotary

Top Plunger, Standard

Top Plunger, Roller

Description	STANDARD Item No.	HIGH SENSITIVITY Item No.	LOW TORQUE Item No.	MAINTAINED Item No.
Side Rotary				
SPDT	2CLP9	2CLR1	2CLR2	2CLR3
DPDT	2CLR9	—	—	—
DPDT, Sequential	2CLT3	—	—	—
DPDT, Center Neutral	2CLT4	—	—	—
Replacement Heads	2CLU2	2CLU3	2CLU4	2CLU5

Description	STANDARD Item No.	ROLLER Item No.	ADJUSTABLE Item No.
Top Plungers			
SPDT	2CLR4	2CLR5	2CLR6
DPDT	2CLT1	2CLT2	—
Replacement Heads	2CLU6	2CLU7	2CLU8

Description	PLASTIC ROD Item No.	COIL SPRING Item No.
Flexible Rods		
SPDT	2CLR7	2CLR8
Replacement Heads	2CLU9	2CLV1

Description	RECEPTACLE Item No.	SWITCH BOX Item No.
D4A Replacement Plug-In Units		
1 NO/1 NC	2CLT5	2CLT7
2 NO/2 NC	2CLT6	2CLT8
2 NO/2 NC, Sequential	—	2CLT9
2 NO/2 NC, Center Neutral	—	2CLU1
Optional Levers		
Front-Mount	—	2CLV2
Back-Mount	—	2CLV3
Adjustable	—	2CLV4

Top Plunger, Adjustable

Flexible Rod, Coil Spring

49A926

49A927

49A922

49A932

EATON

E50 Series Limit Switches

- Rated NEMA 3, 3S, 4X, 6P, and IP67
- 10A
- Operating temp. range: 14° to 250°F
- ½"-14 NPT conduit entry

Switches feature modular, plug-in components that provide application flexibility, reduced inventory, and less downtime. Rugged construction withstands harsh cutting fluids and chemicals. Designed with terminal identification on the nameplate for a visual wiring checkout without guesswork. Heads and switch bodies can be replaced without rewiring. UL Listed and CSA Certified.

		STANDARD				SEALED			
		1NC/1NO		2NC/2NO		1NC/1NO		2NC/2NO	
Description	Actuator Location	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Plunger	Side	E50AH1	**49A921**	E50BS1	**49A982**	E50AS16P	**49A995**	E50BS16P	**49C001**
Plunger	Top	E50AT1	**49A928**	E50BT1	**49A986**	E50AT16P	**49C005**	E50BT16P	**49C009**
Plunger, Adjustable	Side	E50AS2	**49A926**	E50BS2	**49A983**	E50AS26P	**49A996**	E50BS26P	**49C002**
Plunger, Adjustable	Top	E50AT2	**49A929**	E50BT2	**49A987**	E50AT26P	**49C006**	E50BT26P	**49C010**
Plunger, Maintained	Side	E50AS1	**49A925**	E50BH1	**49A985**	E50AH16P	**49C004**	E50BH16P	**49C008**
Plunger, Roller	Side	E50AS3	**49A927**	E50BS3	**49A984**	E50AS36P	**49C003**	E50BS36P	**49C007**
Plunger, Roller	Top	E50AT3	**49A930**	E50BT3	**49A988**	E50AT36P	**49C011**	E50BT36P	**49C014**
Rotary Head, No Lever, 15° Travel	Side	E50AL1	**49A922**	E50BL1	**49A980**	E50AL16P	**49A993**	E50BL16P	**49A998**
Rotary Head, No Lever, 5° Travel	Side	E50AR1	**49A924**	E50BR1	**49A979**	E50AR16P	**49A992**	E50BR16P	**49A997**
Rotary Head, No Lever, Maintained	Side	E50AM1	**49A923**	E50BM1	**49A981**	E50AM16P	**49A994**	E50BM16P	**49A999**
Rotary Head, No Lever, Neutral Position, 15° Travel	Side	—	—	E50NN2	**49A967**	—	—	—	—
Rotary Head, No Lever, Neutral Position, 5° Travel	Side	—	—	E50NN1	**49A965**	—	—	—	—
Rotary Head, No Lever, Neutral Position, SS Shaft, 5° Travel	Side	—	—	E50NN1SPL	**49A966**	—	—	—	—
Wobble Stick Head	Top	E50AW1	**49A931**	E50BW1	**49A989**	E50AW16P	**49C012**	E50BW16P	**49C015**
Wobble Stick Head, Heavy Duty	Top	E50AW2	**49A932**	E50BW2	**49A990**	E50AW26P	**49C013**	E50BW26P	**49C016**

Arm Length	Arm Depth	Arm Material	Roller Dia.	Roller Width	Mfr. Model	Item No.
Limit Switch Lever Arm Clamp, Rod Actuator						
1.5 in	0.19 in	Metal or Nylon	—	—	E50KL35	**49A945**
—	0.12 in	Metal or Nylon	—	—	E50KL36	**49A947**
—	0.25 in	Metal or Nylon	—	—	E50KL41	**49A951**
Limit Switch Lever Arm, Standard Roller Actuator						
1.5 in	0.12 in	Metal	0.69 in	0.25 in	E50KL26	**49A943**
1.5 in	0.12 in	Metal	0.75 in	0.32 in	E50KL25	**49A942**
1.5 in	0.12 in	Nylatron	0.75 in	0.32 in	E50KL24	**49A941**
1.5 in	0.2 in	Nylatron	0.75 in	0.32 in	E50KL204	**49A938**
1.5 in	0.32 in	Nylatron	0.75 in	0.32 in	E50KL200	**49A934**
1.5 in	0.32 in	Nylatron	0.75 in	1.0 in	E50KL377	**49A949**
1.5 in	0.5 in	Metal	0.69 in	0.25 in	E50KL545	**49A960**
1.5 in	0.5 in	Metal	0.75 in	0.32 in	E50KL544	**49A959**
1.5 in	0.5 in	Nylatron	0.85 in	0.85 in	E50KL37	**49A948**
1.5 in	0.64 in	Metal	0.75 in	0.32 in	E50KL355	**49A946**
Limit Switch Lever Arm, Rod Actuator						
5.5 in	0.12 in	Metal	—	—	E50KL202	**49A937**
5.5 in	0.19 in	Nylon	—	—	E50KL399	**49A950**
8.75 in	0.12 in	Metal	—	—	E50KL581	**49A962**
8.75 in	0.19 in	Stainless Steel	—	—	E50KL220	**49A939**
11.6 in	0.25 in	Stainless Steel	—	—	E50KL421	**49A952**
12 in	0.12 in	Metal	—	—	E50KL226	**49A940**
12.12 in	0.25 in	Nylon	—	—	E50KL556	**49A961**
12.12 in	0.5 in	Nylon	—	—	E50KL533	**49A954**
Limit Switch Lever Arm, Flexible Loop Rod Actuator						
6 in	0.15 in	Nylatron	—	—	E50KL142	**49A933**
Limit Switch Lever Arm, Adjustable Roller Actuator						
0.50 in to 3.25 in	0.19 in	Nylatron	0.75 in	0.75 in	E50KL31	**49A944**
0.50 in to 3.25 in	0.5 in	Nylatron	0.75 in	1.0 in	E50KL543	**49A958**
0.50 in to 3.25 in	0.5 in	Nylatron	4.0 in	0.11 in	E50KL598	**49A963**
1.00 in to 3.75 in	0.5 in	Metal	0.69 in	0.25 in	E50KL539	**49A957**
1.00 in to 3.75 in	0.5 in	Metal	0.75 in	0.32 in	E50KL538	**49A956**
1.00 in to 3.75 in	0.5 in	Nylatron	0.75 in	0.32 in	E50KL201	**49A935**
1.00 in to 3.75 in	0.5 in	Nylatron	0.75 in	0.32 in	E50KL201SPL	**49A936**
1.00 in to 3.75 in	0.5 in	Nylatron	0.75 in	1.0 in	E50KL537	**49A955**
1.00 in to 3.75 in	0.75 in	Nylatron	0.75 in	0.5 in	E50KL599	**49A964**
1.63 in to 3.75 in	0.5 in	Nylatron	1.5 in	0.29 in	E50KL443	**49A953**

49A871

49A870

49A867

49A880

49A878

49A872

49A873

49A874

EATON

LS Series Limit Switches

- 1NO/1NC
- 4A
- Operating temp. range: -13° to 158°F

Modular switches are suitable for use in safety applications designed to protect persons or processes. Feature plug-in system, positive opening NC contacts, and operating heads that can be rotated 90° to suit a specific direction. LSM Series are designed with metal bodies, and LS Series feature more economical, plastic bodies. UL Listed. CSA and CE Certified.

Description	Mfr. Model	Item No.
LSM Series		
Horizontal Roller Lever, Angled	LSM-11S-LA	**49A883**
Horizontal Roller Lever, Long	LSM-11S-L	**49A882**
Plunger, Roller	LSM-11S-P	**49A881**
Rod Lever, Metal	LSM-11S-RRM	**49A887**
Rod Lever, Plastic	LSM-11S-RR	**49A886**
Rotary Lever	LSM-11S-RL	**49A884**
Rotary Lever, Adjustable	LSM-11S-RLA	**49A885**
Wobble Stick	LSM-11S-S	**49A888**
LS Series		
Horizontal Roller Lever, Angled	LS-S11S-LA	**49A871**
Horizontal Roller Lever, Large	LS-S11S-LB	**49A870**
Horizontal Roller Lever, Long	LS-S11S-L	**49A868**
Horizontal Roller Lever, Short	LS-S11S-LS	**49A869**
Plunger, Roller	LS-S11S-P	**49A867**
Rod Lever	LS-S11S-OR	**49A880**
Rod Lever, Adjustable, Metal	LS-S11S-RRM	**49A878**
Rod Lever, Adjustable, Plastic	LS-S11S-RR	**49A877**
Rotary Lever	LS-S11S-RL	**49A872**
Rotary Lever, Adjustable, 18.0 mm dia. Roller	LS-S11S-RLA	**49A873**
Rotary Lever, Adjustable, 30.0 mm dia. Roller	LS-S11S-RLA30	**49A874**
Rotary Lever, Adjustable, 40.0 mm dia. Roller	LS-S11S-RLA40	**49A875**
Rotary Lever, Adjustable, 40.0 mm dia. Roller, Rubber	LS-S11S-RLA40R	**49A876**
Wobble Stick	LS-S11S-S	**49A879**

Honeywell

MICRO SWITCH™ Global Limit Switches

- Enclosures: NEMA 1, 4, 12, and 13
- Operating temp. range: -13° to 185°F
- ½"-14 NPT conduit entry

12U934

12U936

12U916

Actuator Style	Actuator Location	Movement	Contact Form Switches	AC Contact Rating	Mfr. Model	Item No.
GLA/GLS Series						
Adjustable Rod, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLAA01A4J	**12U920**
Adjustable Rod, Rotary	Side	CCW, CW	2NC/2NO	10A @ 600V	GLAA20A4J	**12U927**
Cat Whisker, Wobble Stick	Top	Wobble	1NC/1NO	10A @ 600V	GLAA01K8B	**12U922**
Cat Whisker, Wobble Stick	Top	Wobble	1NC/1NO	10A @ 600V	GLAA01K8C	**12U923**
Cat Whisker, Wobble Stick	Top	Wobble	2NC/2NO	10A @ 600V	GLAA20K8C	**12U931**
Plunger	Top	Linear	1NC/1NO	10A @ 600V	GLAA01B	**12U227**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 600V	GLAA01C	**12U228**
Plunger, Roller	Top	Linear	2NC/2NO	10A @ 600V	GLAA20C	**12U929**
Plunger, Roller Lever	Top	Linear	1NC/1NO	10A @ 600V	GLAA01D	**12U229**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLAA01A1A	**12U223**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLAA01A1B	**12U224**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLAA01A2A	**12U225**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLAA01A2B	**12U226**
Roller Lever, Rotary	Side	CCW, CW	2NC/2NO	10A @ 600V	GLAA20A2B	**12U231**
Roller Lever, Rotary	Side	CCW, CW	2NC/2NO	10A @ 600V	GLAA20A1B	**12U925**
Roller Lever, Rotary	Side	CCW, CW	2NC/2NO	10A @ 600V	GLAA20A2A	**12U926**
GLC/GLS Series						
Adjustable Rod, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLCA01A4J	**12U933**
Plunger	Top	Linear	1NC/1NO	10A @ 300V	GLCA01B	**12U235**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 300V	GLCA01C	**12U236**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLCA01A1B	**12U232**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLCA01A2A	**12U233**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLCA01A2B	**12U234**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLCA01A1A	**12U932**
Roller Lever, Rotary	Top	Linear	1NC/1NO	10A @ 300V	GLCA01D	**12U934**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLCA01E7B	**12U237**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLCA01K8A	**12U238**
GLD/GLS Series						
Adjustable Rod, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLDA01A4J	**12U241**
Plunger	Top	Linear	1NC/1NO	10A @ 600V	GLDA01B	**12U937**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 600V	GLDA01C	**12U938**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLDA01A1A	**12U239**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLDA01A1B	**12U240**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLDA01A2A	**12U935**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 600V	GLDA01A2B	**12U936**
Roller Lever, Rotary	Top	Linear	1NC/1NO	10A @ 600V	GLDA01D	**12U939**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 600V	GLDA01E7B	**12U940**
GLE/GLS Series						
Plunger, Roller	Top	Linear	2NC/2NO	10A @ 300V	GLEA24C	**12U246**
Roller Lever, Rotary	Side	CCW, CW	2NC/2NO	10A @ 300V	GLEA24A1B	**12U245**
Roller Lever, Rotary	Side	CCW, CW	2NC/2NO	10A @ 300V	GLEA24A2A	**12U948**
Wobble Stick	Top	Wobble	1NC/1NO	10A @ 300V	GLEA01E7B	**12U947**
GLL/GLS Series						
Plunger	Top	Linear	1NC/1NO	10A @ 300V	GLLA01B	**12U918**
Plunger, Roller	Top	Linear	1NC/1NO	10A @ 300V	GLLA01C	**12U919**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLLA01A1B	**12U916**
Roller Lever, Rotary	Side	CCW, CW	1NC/1NO	10A @ 300V	GLLA01A2B	**12U917**

12U991

12U985

12U977

Honeywell

Hazardous Location Limit Switches

- Aluminum construction
- NEMA rated 1, 7
- 2.56" H x 2.78" W x 2.02" D
- ½" NPT conduit entry
- Operating temp.: -40° to 160°F (except 12U990 and 12V003 are rated to 400°F)

Designed with flame paths in the housing that cool exploding gases below the kindling temperature before they reach the explosive gases surrounding the housing. Applications include control valves and actuators, petrochemical plants, conveyors, and material handling. ATEX, IEC Ex, Div. 1, & 2, Class I, Groups C, & D; Div. 1 & 2, Class II, Groups, E, F, & G; II 2 G, EEx d IIB + H2 T6. UL, CSA, ATEX, IEC Ex.

Description	Movement	Contact Form Switches	AC Contact Rating	Mfr. Model	Item No.
Paddle	Manual	1NC/1NO	15A @ 480V	EX-AR50	**12U991**
Plunger	Linear	1NC/1NO	15A @ 480V	EX-Q	**12V002**
Plunger, Boot Sealed	Linear	1NC/1NO	10A @ 480V	EX-N15	**12V001**
Plunger, Class 1 Group B	Linear	1NC/1NO	15A @ 480V	EX-Q800	**12V005**
Plunger, High Temp.	Linear	1NC/1NO	5A @ 480V	EX-Q400	**12V003**
Plunger w/ 3 ft. Leads	Linear	2NC/2NO	10A @ 250V	EXD-Q-3	**12U996**
Rod Lever w/o Mounting Bracket	CW	1NC/1NO	15A @ 600V	EX-AR1613	**12U985**
Roller Lever	CW	1NC/1NO	15A @ 600V	EX-AR	**12U982**
Roller Lever w/o Mounting Bracket	CW	1NC/1NO	15A @ 600V	EX-AR141	**12U983**
Roller Lever w/o Mounting Bracket	CCW, CW	1NC/1NO	15A @ 600V	EX-AR16	**12U984**
Rotary Head, w/o Lever	CW	1NC/1NO	15A @ 600V	EX-AR20	**12U987**
Rotary Lever Arm	CW	1NC/1NO	20A @ 480V	EXA-AR	**12U977**
Rotary Lever Arm	CCW	1NC/1NO	15A @ 600V	EX-AR30	**12U989**
Rotary Lever Arm, 2 Conduit Openings	CW	1NC/1NO	15A @ 480V	1EX1	**12U974**
Rotary Lever Arm, Class 1 Group B	CW	1NC/1NO	15A @ 480V	EX-AR800	**12U992**
Rotary Lever Arm, High Temp.	CW	1NC/1NO	15A @ 600V	EX-AR400	**12U990**
Rotary Lever Arm, Maintained Contact	CW	1NC/1NO	10A @ 250V	EX-XR3	**12V006**
Rotary Lever Arm w/3 ft. Leads	CW	2NC/2NO	10A @ 250V	EXD-AR-3	**12U994**
Rotary Lever Arm w/3 ft. Leads	CCW	2NC/2NO	10A @ 250V	EXD-AR30-3	**12U995**
Rotary Lever Arm w/Nylon Roller	CW	1NC/1NO	15A @ 480V	EX-AR182	**12U986**
Rotary Lever Arm w/o Mounting Bracket	CW	1NC/1NO	20A @ 480V	EXA-AR62	**12U979**

Waterproof Limit Switches

CPI Switches & Sensors

- Temp. range: -40° to 185°F

Submersible with proper wire sealing. For the harshest environments.

E-SERIES SWITCHES

Large overtravel capability and adjustable mounting brackets. Feature 1-way vertical and horizontal movement. Stainless steel bracket included. 5DKF7 has an ultralong actuating lever for extreme overtravel flexibility.

J-SERIES SWITCHES

Each includes stainless steel bracket. Plunger-style 5DKG0 and 5DKG1 feature omnidirectional movement. Patented ball design eliminates actuator jamming for precise control. Plunger-style 5DKG5 has a rugged, long-plunger actuator and vertical movement. Includes a Deutsche connector.

5DKF4

5DKF6

5DKG0

5DKG5

Actuator Style	Contact Form Switches	Actuator Length	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
E Series							
Leaf, Lever	SPDT	0.81 in	1.75 in	1.53 in	0.97 in	E1092-555	**5DKF4**
Lever, Roller	SPDT	0.81 in	1.75 in	1.53 in	0.97 in	E1117-553	**5DKF5**
Lever, Roller	SPDT	0.56 in	1.75 in	1.53 in	0.97 in	E1134-505	**5DKF6**
Leaf, Lever	SPDT	1.04 in	1.75 in	1.53 in	0.97 in	E1264-503	**5DKF7**
J Series							
Plunger, Roller	1NO	0.12 in	0.87 in	0.89 in	0.87 in	J4001-522	**5DKG0**
Plunger, Roller	1NC	0.12 in	0.87 in	0.89 in	0.87 in	J4002-518	**5DKG1**
Plunger, Roller	1NO	0.56 in	0.87 in	2.85 in	0.87 in	J4401-517	**5DKG5**

12T957

12T958

12T959

12T960

12T961

12T962

Compact Limit Switches

Dayton

- Enclosures: NEMA 1 (IP65)
- 10A, 300VAC/DC
- Operating temp.: -14° to 158°F
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

Actuator Style	Body Height	Body Width	Body Depth	Item No.
Plunger	2.41 in	1.12 in	1.01 in	**12T957**
Plunger, Roller	2.41 in	1.12 in	1.01 in	**12T958**
Roller Lever, Rotary	2.41 in	1.12 in	1.01 in	**12T959**
Adjustable Rod, Rotary	2.41 in	1.12 in	1.01 in	**12T960**
Roller Lever, Rotary	2.41 in	1.12 in	1.01 in	**12T961** *
Coil Spring, Wobble Stick	2.41 in	1.12 in	1.01 in	**12T962**

*** Adjustable lever arm.***

5WJH0

5WJJ1

Telemecanique Sensors

XCMD Series Miniature Limit Switches

- 1NO/1NC
- Enclosures: NEMA 1, 2, 4, 12, and 13 (IP67, IP68)
- 6A, 240VAC
- Operating temp. range: -25° to 70°F

Modular limit switches have integral snap-action contacts. Bodies are Zamak® zinc alloy. Class I protection against electric shock. 5 gn vibration resistance, and 25 gn shock resistance. For short-circuit protection, use 6A cartridge fuses, type gG. UL Listed and CSA Certified.

Description	Mfr. Model	Item No.
XCMD Replacement Parts		
Miniature Limit Switch Body, 1NO/1NC	ZCMD21	**21HK59**
Miniature Limit Switch Body, M12 Connection, 1NO/1NC	ZCMD21M12	**21HK60**
Miniature Limit Switch Body, 1NO/1NC	ZCMD25	**21HK61**
Limit Switch Head Steel Roller Plunger, Roller Plunger	ZCE02	**4AJ59**
Limit Switch Lever Arm, Wobble Stick	ZCE06	**21HK36**
Limit Switch Head Metal End Plunger, Plunger	ZCE10	**4AJ58**
Limit Switch Head, Rotary	ZCE01	**4AJ57**
Limit Switch Head, Roller Lever Plunger	ZCE24	**21HK62**
Limit Switch Head, Plunger	ZCEF0	**21HK63**
Limit Switch Head, Roller Plunger	ZCEF2	**21HK64**
Limit Switch Lever Arm, Standard Roller	ZCY15	**21HK65**
Limit Switch Lever Arm, Standard Roller	ZCY17	**2RVU7**
Limit Switch Lever Arm, Adjustable Roller	ZCY44	**2RVU8**
Limit Switch Lever Arm, Rod	ZCY91	**2RVU9**
Limit Switch Lever Arm, Plunger	ZCE14	**2RVX2**
Limit Switch Base w/1m Cable	ZCMC21L1	**21HK66**
Limit Switch Base w/2m Cable	ZCMC21L2	**21HK67**
Limit Switch Base w/3m Cable	ZCMC21L3	**21HK68**
Limit Switch Base w/5m Cable	ZCMC21L5	**21HK69**
Booted Steel Plunger Head	ZCE11	**2RVX1**
Wobble Stick Head	ZCE08	**2RVX3**

Actuator Style	Threaded Stem	Roller Material	Mfr. Model	1m Cable, 5 Wire Item No.	2m Cable, 5 Wire Item No.	3m Cable, 5 Wire Item No.	5m Cable, 5 Wire Item No.	M12 4-Pin Connector Item No.
Cat Whisker, Wobble Stick	No	—	XCMD2106	**21HK44**	—	—	—	**5WJH4**
No Lever, Rotary	No	—	XCMD2101	**2RVU5**	—	—	—	—
Plunger	No	—	XCMD2110	**5WJH5**	**2RVU6**	**5WJH6**	**21HK45**	**5WJH7**
Plunger	Yes	—	XCMD21F0	**5WJJ2**	**21HK55**	**21HK56**	**21HK57**	**21HK58**
Plunger, Roller	No	Steel	XCMD2102	**5WJH0**	**21HK43**	—	**5WJH2**	**5WJH3**
Plunger, Roller	Yes	Steel	XCMD21F2	**5WJJ3**	**21HK51**	**21HK52**	**21HK53**	**21HK54**
Plunger, Roller Lever	No	Thermoplastic	XCMD2124	**5WJJ0**	—	—	**21HK50**	**5WJJ1**
Roller Lever, Rotary	No	Thermoplastic	XCMD2115	**5WJH8**	**21HK46**	—	**21HK48**	**21HK49**
Roller Lever, Rotary	No	Thermoplastic	XCMD2515	**5WJJ4** *	—	—	—	—
Roller Lever, Rotary	No	Steel	XCMD2116	**5WJH9**	—	—	—	—

*** Slow-break contact.***

XCKP Series 5WJG1

XCKP Series 5WJG6

XCKD Series 5WJD1

XCKD Series 5WJD8

XCK Series Limit Switches

Telemecanique Sensors

- 1NO/1NC
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F

XCKP SERIES

- Enclosures: NEMA 1, 4, and 12 (IP66, IP67)
- Mechanical life: 10 million operations

Complete switches are double insulated with no grounding required. Lever-operated CW and CCW in 5° and 90° increments. Slim body with metal head and plastic enclosure.

XCKD SERIES

- Enclosures: NEMA 1, 2, 4, 6, 12, and 13 (IP66, IP67)

Compact metal enclosure protects switches. Head, body, lever, and connector modularity.

WATERPROOF LIMIT SWITCHES

- Temp. range: -40° to 185ºF

Submersible with proper wire sealing. For the harshest environments.

Actuator Style	Movement	Body Height	Body Width	Body Depth	Mfr. Model	½ IN NPT Item No.	M12 CONNECTOR Item No.	G11 METRIC Item No.
XCKP Series								
Plunger, Roller	Horizontal	2.56 in	1.22 in	1.18 in	XCKP2102	**1MDY9**	**5WJF9**	**5WJF8**
Cat Whisker, Wobble Stick	Any Direction	2.56 in	1.22 in	1.18 in	XCKP2106	**1MDZ1**	**5WJG0**	**21HK32**
Plunger	Vertical	2.56 in	1.22 in	1.18 in	XCKP2110	**1MDZ2**	**5WJG1**	**21HK33**
Roller Lever, Rotary	CCW, CW	2.56 in	1.22 in	1.18 in	XCKP2118	**3DZR8**	**5WJG3**	**5WJG2**
Plunger, Roller Lever	Horizontal, One Way	2.56 in	1.22 in	1.18 in	XCKP2121	**1MDZ3**	**5WJG4**	**21HK34**
Plunger, Roller Lever	One Way, Vertical	2.56 in	1.22 in	1.18 in	XCKP2127	**1MDZ4**	—	—
Adjustable Roller Lever, Rotary	CCW, CW	2.56 in	1.22 in	1.18 in	XCKP2145	**1MDZ5**	**5WJG6**	**5WJG5**
XCKD Series								
Plunger, Roller	Horizontal	2.56 in	1.22 in	1.18 in	XCKD2102	**5WJD2**	**5WJD1**	—
Cat Whisker, Wobble Stick	Any Direction	2.56 in	1.22 in	1.18 in	XCKD2106	**5WJD4**	**5WJD3**	—
Plunger	Vertical	2.56 in	1.22 in	1.18 in	XCKD2110	**5WJD6**	**5WJD5**	—
Roller Lever, Rotary	CCW, CW	2.56 in	1.22 in	1.18 in	XCKD2118	**5WJD8**	**5WJD7**	—
Plunger, Roller Lever	Horizontal, One Way	2.56 in	1.22 in	1.18 in	XCKD2121	**5WJE0**	**5WJD9**	—
Plunger, Roller Lever	One Way, Vertical	2.56 in	1.22 in	1.18 in	XCKD2127	—	**21HK41**	—
Adjustable Roller Lever, Rotary	CCW, CW	2.56 in	1.22 in	1.18 in	XCKD2145	**5WJE2**	**5WJE1**	—

Description	Mfr. Model	Item No.
XCKP/XCKD Replacement Parts		
Compact Limit Switch Body, 1NO/1NC	ZCP21	**4AE97**
Compact Limit Switch Body, M12 Connection, 1NO/1NC	ZCP21M12	**21HK35**
Limit Switch Head, Roller Lever Plunger	ZCE27	**21HK37**
Plastic Cable Entry, ½ in NPT	ZCPEN12	**4AJ45**
Plastic Cable Entry, Pg 11 Connection	ZCPEG11	**21HK39**
Plastic Cable Entry, Pg 13.5 Connection	ZCPEG13	**4AJ39**
Compact Limit Switch Body, 1NO/1NC	ZCD21	**4AJ16**
Compact Limit Switch Body, M12 Connection, 1NO/1NC	ZCD21M12	**21HK42**
Limit Switch Head Steel Roller Plunger, Roller Plunger	ZCE02	**4AJ59**
Limit Switch Lever Arm, Wobble Stick	ZCE06	**21HK36**
Limit Switch Head Metal End Plunger, Plunger	ZCE10	**4AJ58**
Limit Switch Head, Rotary	ZCE01	**4AJ57**
Limit Switch Lever Arm, Roller Lever Plunger	ZCE21	**4AJ53**
Limit Switch Lever Arm, Standard Roller	ZCY18	**4AJ54**
Limit Switch Lever Arm, Adjustable Roller	ZCY45	**21HK38**
Metal Conduit Entry, ½ in NPT Conduit	ZCDEN12	**4AJ52**

4B805

4B801

Telemecanique Sensors

XCKL Series Compact Limit Switches

- 1NO/1NC, snap action
- Enclosures: NEMA 1, 2, 3, 4, and 12 (IP66)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F
- ½" NPT conduit thread

General-duty switches offer greater versatility for applications such as machine tools, material handling, etc. Feature positive opening contact and Finger Guard™ protection and captive screws and gaskets.

Actuator Style	Body Height	Body Width	Body Depth	Mfr. Model	Item No.
Plunger, Roller	2.83 in	2.04 in	1.18 in	XCKL102H7	**4B805**
Wobble Stick	2.83 in	2.04 in	1.18 in	XCKL106H7	**4B804**
Plunger	2.83 in	2.04 in	1.18 in	XCKL110H7	**4B803**
Roller Lever, Rotary	2.83 in	2.04 in	1.18 in	XCKL115H7	**4B802**
Plunger, Roller	2.83 in	2.04 in	1.18 in	XCKL121H7	**4B801**
Roller Lever, Rotary	2.83 in	2.04 in	1.18 in	XCKL10041H7	**2EH73**
Roller Lever, Rotary	2.83 in	2.04 in	1.18 in	XCKL141H7	**5WJF3**
XCKL Replacement Parts					
Body, 1NO/1NC				ZCKL1H7	**2EJ31**
Roller Plunger - Head				ZCKD02	**2EH96**
Cat Whisker - Head				ZCKD06	**2EH97**
Rod Plunger - Head				ZCKD10	**2EH99**
Offset Lever Arm - Head				ZCKD15	**2EJ02**
One-Way Lever Arm - Head				ZCKD21	**2EJ05**
Rotary - Head, CW and CCW				ZCKD41	**21HK25**
Adjustable Lever Arm - Head				ZCKG00	**2EJ19**
Steel Roller Lever - Head				ZCKD16	**2EJ03**
Wobble Spring, Steel - Head				ZCKD08	**2EH98**
Limit Switch Lever Arm, Adjustable Roller, Delrin				ZCKY41	**2EJ34**
Limit Switch Lever Arm, Rod, Plastic				ZCKY59	**2EJ38**
2-Pole NO+NC Snap Action				XE2SP2151	**4AJ31**

1MDZ6

1MDZ8

Telemecanique Sensors

XCKT Series Limit Switches

- 1NO/1NC
- Enclosures: NEMA 1, 2, 4, 6, 12, and 13 (IP66 and IP67)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F

Compact plastic design features 2 side cable entries and modular head.

Actuator Style	Body Height	Body Width	Body Width	Mfr. Model	Item No.
Plunger, Roller	2.0 in	2.28 in	2.28 in	XCKT2102N12	**1MDZ6**
Wobble Stick	2.0 in	2.28 in	2.28 in	XCKT2106N12	**5WJG7**
Plunger	2.0 in	2.28 in	2.28 in	XCKT2110N12	**1MDZ7**
Roller Lever, Rotary	2.0 in	2.28 in	2.28 in	XCKT2118N12	**1MDZ8**
Roller Lever, Rotary	2.0 in	2.28 in	2.28 in	XCKT2145N12	**5WJG9**
XCKT Replacement Parts					
Compact Limit Switch Body, ½" NPT Connection, 2 Pole NO/NC, Snap Action, ½" NPT Connection				ZCT21N12	**21HK40**
Limit Switch Head Steel Roller Plunger, Roller Plunger				ZCE02	**4AJ59**
Limit Switch Lever Arm, Wobble Stick				ZCE06	**21HK36**
Limit Switch Head Metal End Plunger, Plunger				ZCE10	**4AJ58**
Limit Switch Head, Rotary				ZCE01	**4AJ57**
Limit Switch Lever Arm, Roller Lever Plunger				ZCE21	**4AJ53**
Limit Switch Lever Arm, Standard Roller				ZCY18	**4AJ54**
Limit Switch Lever Arm, Adjustable Roller				ZCY45	**21HK38**

Telemecanique Sensors

XCKM Series Limit Switches

- 1NO/1NC, snap action
- Enclosures: NEMA 1, 2, 4, 12, and 13 (IP66)
- 10A, 240VAC
- Operating temp. range: -13° to 158°F
- ½" NPT cable entry port
- Max. wire size: 2 x #16 AWG per terminal

Feature 4-position indexing rotary head (field convertible) and captive saddle clamp terminals in convenient ready-to-wire position. 25 gn (10 to 500 Hz) vibration resistance, 50 gn shock resistance, and max. 25 m contact resistance. For short-circuit protection, use 10A fuses, type SC. UL Listed, CSA and CE Certified.

5WJF4

5WJF7

Actuator Style	Body Height	Body Width	Body Depth	Mfr. Model	Item No.
Plunger, Roller	2.48 in	2.52 in	1.18 in	XCKM102H7	**5WJF4**
Wobble Stick	2.48 in	2.52 in	1.18 in	XCKM106H7	**5WJF5**
Plunger	2.48 in	2.52 in	1.18 in	XCKM110H7	**5WJF6**
Roller Lever, Rotary	2.48 in	2.52 in	1.18 in	XCKM115H7	**5WJF7**
XCKM Replacement Parts					
Body, 1NO/1NC				ZCKM1	**2FM18**
Roller Plunger - Head				ZCKD02	**2EH96**
Cat Whisker - Head				ZCKD06	**2EH97**
Rod Plunger - Head				ZCKD10	**2EH99**
Offset Lever Arm - Head				ZCKD15	**2EJ02**

Telemecanique Sensors

XCKJ Series Limit Switches

- Enclosures: NEMA 1, 2, 3, 4, and 12 (IP66)
- 10A, 240VAC/250VDC
- Operating temp. range: -13° to 158°F
- Mechanical life: lever types, 30 million operations; neutral positions, 5 million operations

Complete switches have die-cast zinc enclosures. Field convertible: CW, CCW, or both. Delrin roller is adjustable in 5° or 90° increments for 4B811 and 4B810.

5WJE3

5WJE7

Actuator Style	Actuator Length	Contact Form Switches	Body Width	Body Depth	Mfr. Model	SCREW TERMINALS Body Height	SCREW TERMINALS Item No.	M12 5-PIN CONNECTOR Body Height	M12 5-PIN CONNECTOR Item No.
Roller Lever, Rotary	1.61 in	1NC/1NO	1.57 in	2.36 in	XCKJ10511	4.01 in	**5WJE3**	4.01 in	**21HK27**
Adjustable Roller Lever, Rotary	1.57 in to 3.35 in	1NC/1NO	1.57 in	2.36 in	XCKJ10541	4.01 in	**4B811**	4.01 in	**21HK28**
Adjustable Roller Lever, Rotary	1.57 in to 3.35 in	2NC/2NO	1.57 in	2.36 in	XCKJ20541	4.01 in	**4B810**	—	—
Adjustable Rod, Rotary	8.35 in	1NC/1NO	1.57 in	2.36 in	XCKJ10559	4.01 in	**21HK29**	4.01 in	**5WJE5**
Plunger	0.28 in	1NC/1NO	1.57 in	2.36 in	XCKJ161	4.01 in	**5WJE6**	4.01 in	**21HK30**
Plunger, Roller	0.79 in	1NC/1NO	1.57 in	2.36 in	XCKJ167	4.01 in	**5WJE7**	—	—
No Lever, Rotary	—	2NC/2NO	1.57 in	2.36 in	ZCKJ404	4.01 in	**4B777**	—	—

Description	Mfr. Model	Item No.
XCKJ Replacement Parts		
Limit Switch Body, 1NO/1NC	ZCKJ1H7	**2EJ20**
Limit Switch Body,M12 Connection, 1NO/1NC	ZCKJ1D	**21HK31**
Limit Switch Body, 2NO/2NC	ZCKJ2H7	**2EJ22**
Limit Switch Head, Rotary	ZCKE05	**2EJ07**
Limit Switch Head, Plunger	ZCKE61	**2EJ14**
Limit Switch Head, Roller Plunger	ZCKE67	**2FM17**
Limit Switch Lever Arm, Standard Roller, Delrin	ZCKY11	**4B773**
Limit Switch Lever Arm, Standard Roller, Steel	ZCKY13	**4B772**
Limit Switch Lever Arm, Adjustable Roller, Delrin	ZCKY41	**2EJ34**
Limit Switch Lever Arm, Adjustable Roller, Steel	ZCKY43	**2EJ35**
Limit Switch Lever Arm, Rod, Plastic	ZCKY59	**2EJ38**
Limit Switch Lever Arm, Rod, Steel	ZCKY91	**2EJ42**
2-Pole NO+NC Snap Action	XE2SP2151	**4AJ31**

13F515

13F516

Miniature Precision Limit Switch

Dayton

- NEMA 1 and IP67
- Operating temp.: -14° to 158°F
- Strain relief series: 5A, 250VAC
- Connector series: 1A, 250VAC
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

Actuator Style	Body Height	Body Width	Body Depth	Electrical Connection	Item No.
Plunger, Roller	1.27 in	2.29 in	0.71 in	Screw Terminals	**13F513**
Plunger	1.27 in	2.29 in	0.71 in	Screw Terminals	**13F515**
Plunger, Roller Lever	1.27 in	2.29 in	0.71 in	Screw Terminals	**13F516**

12T917

12T930

12T914

12T908

12T906

12T909

Enclosed Limit Switches

Dayton

- ½" NPT conduit entry
- Operating temp.: -14° to 176°F
- 15A, 480VAC/DC max.
- SPDT
- 3-yr. warranty

UL Listed. CSA and CE Certified.

				STANDARD		WITH FLANGE BASE	
Actuator Style	Operating Force	Body Height	Body Width	Body Depth	Item No.	Body Depth	Item No.
NEMA 13, 3, 4 with Diagonal Side Mounting Holes							
Cross Roller, Plunger	18 oz	1.76 in	3.39 in	1.01 in	**12T917**	—	—
Wobble Stick	5 oz	1.76 in	3.39 in	1.01 in	**12T924**	—	—
NEMA 13, 3, 4 with Inline Side Mounting Holes							
Cross Roller, Plunger	18 oz	1.76 in	3.39 in	—	—	1.01 in	**12T919**
Plunger	28 oz	1.76 in	3.39 in	1.01 in	**12T910**	—	—
Plunger, Roller	18 oz	1.76 in	3.39 in	1.01 in	**12T912**	—	—
Plunger, Roller Lever	22.66 in-oz	1.76 in	3.39 in	—	—	1.01 in	**12T930**
Wobble Stick	5 oz	1.76 in	3.39 in	1.01 in	**12T914**	1.01 in	**12T929**
NEMA 1 with Inline Side Mounting Holes							
Cross Roller, Plunger	9 oz to 12 oz	1.76 in	3.39 in	1.01 in	**12T908**	—	—
Plunger	9 oz to 12 oz	1.76 in	3.39 in	1.01 in	**12T906**	—	—
Plunger, Roller Lever	20 oz	1.76 in	3.39 in	1.01 in	**12T909**	1.01 in	**12T928**

Plunger

Roller Plunger

Roller Arm Lever

Cross Roller Plunger

Coil Spring

Series ZE, ZV2, and ZV Limit Switches

OMRON®

- Standard unit enclosures: NEMA 1; IP60
- Sealed (booted) unit enclosures: NEMA 1, 2, 3, 4, and 5; IP65

Large, easy-to-wire switch cavity. Die-cast housing. Sealed units feature a rubber boot and clamping band on head to seal out dirt. UL Listed and CSA Certified.

ZE SERIES

- ½"-14 NPSM conduit opening and side mounting bolts
- 15A, 480VAC/250VDC
- Operating temp.: 39.6° to 201.6°F

ZV2 AND ZV SERIES

- Screw terminals on internal switch face forward when cover is opened
- 15/15/10A, 125/250/480VAC
- Operating temp.: 39.6° to 201.6°F

ZV2 units are gang-mountable.

Actuator Style	Boot Sealed Actuator	Item No.
ZE Series, Side Mounted Switches		
Plunger	No	**3XG56**
Plunger, Roller	No	**3XG58**
Cross Roller, Plunger	No	**3XG57**
Plunger, Roller Lever	No	**3XG59**
Lever, Plunger	No	**3XG60**
Plunger	Yes	**2W938**
Plunger, Roller	Yes	**2W939**
Cross Roller, Plunger	Yes	**3XG55**
Plunger, Roller Lever	Yes	**3A095**
Coil Spring, Wobble Stick	Yes	**3A096**
ZV2 Series, Diagonal Side Mounted Switches		
Plunger	Yes	**2CMA8**
Plunger, Roller	Yes	**2CMA9**
Plunger, Roller Lever	Yes	**2CMC1**
ZV Series, Flange Base-Mounted Switches		
Plunger	Yes	**2CMC2**
Plunger, Roller	Yes	**2CMC3**
Plunger, Roller Lever	Yes	**2CMC4**

12U162

12U176

12U175

12U165

12U167

12U166

MICRO SWITCH™ Enclosed Basic Switches

Honeywell

- IP40, NEMA 1, except Seal Boot models are IP66, NEMA 1, 3, 4, and 12
- ½" NPT conduit entry
- Operating temp.: -25° to 160°F
- SPDT rated up to 600VAC and up to 15A
- DPDT rated up to 250VAC and up to 10A

Silver contacts with zinc, die-cast housing. Side mount models include mounting hardware. Models without Seal Boot are UL Listed and CSA Certified.

	SIDE MOUNT		SIDE MOUNT W/SEAL BOOT		FLANGE MOUNT		FLANGE MOUNT W/SEAL BOOT	
Actuator Style	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
1NC/1NO								
Coil Spring, Wobble Stick	—	—	BZE6-2RN18	**12U162**	—	—	BZV6-2RN18	**12U169**
Cross Roller, Plunger	BZE6-2RQ81	**12U176**	BZE6-2RN81	**12U174**	—	—	—	—
Lever, Plunger	BZE6-2RQ62	**12U175**	BZE6-2RN62	**12U163**	—	—	BZV6-2RN62	**12U177**
Plunger	—	—	BZE6-2RN	**12U161** *	—	—	—	—
Plunger	BZE6-2RQ	**12U165**	BZE6-2RN7	**12U173**	BZV6-2RQ	**12U180**	BZV6-2RN	**12U168**
Plunger, Roller	BZE6-2RQ8	**12U167**	BZE6-2RN80	**12U164**	BZV6-2RQ8	**12U183**	BZV6-2RN80	**12U178**
Plunger, Roller Lever	BZE6-2RQ2	**12U166**	BZE6-2RN2	**12U172**	BZV6-2RQ2	**12U181**	BZV6-2RN2	**12U170**
2NC/2NO								
Plunger	—	—	DTE6-2RN	**12U185**	—	—	—	—
Plunger, Roller Lever	—	—	DTE6-2RN2	**12U171**	—	—	DTV6-2RN2	**12U187**

** Installed with #8 screws, all others use #6 screws.*

OMRON®

Series D4C and D4CC Compact Limit Switches

- D4C are prewired; D4CC have M12 single-keyway 4-pin connector
- Operating temp.: 40° to 184°F
- Enclosure: NEMA 3, 4, and 13; IP67
- Load rating: D4C 5A max. at 250VAC; D4CC 1A max. at 125VAC and 30VDC
- Mechanical life: 10 million operations

Switches have triple-sealed construction.

D4C and 2CLX6 can be gang-mounted up to 6 switches. UL Listed, CSA and CE Certified.

Description	General-Purpose Item No.	Sealed (Booted) Item No.
D4C Series, SPDT		
Plunger, Roller with 3m Cable	**2CLV6**	**2CLW1**
Plunger, Roller with 3m Cable	**2CLW4**	**2CLW2**
Plunger, Roller Replacement Head	**2CLW7**	**2CLX2**
Plunger, Roller with 3m Cable	**2CLV7**	—
Cross Roller Plunger Replacement Head	**2CLW8**	**2CLX3**
Plunger with 3m Cable	**2CLV5**	**2CLV9**
Pin Plunger Replacement Head	**2CLW6**	**2CLX1**
Roller Lever 38mm with 3m Cable	**2CLV8**	—
Roller Lever 38mm with 5m Cable	**2CLW5**	—
Roller Lever Replacement Head	**2CLW9**	—
Wobble Stick with 3m Cable	**2CLW3**	—
Wobble Stick Replacement Head	**2CLX4**	—
D4CC Series, SPDT		
Plunger, Roller, AC 4-pin	**2CLX5**	**2CLX8**
Plunger, Roller, DC 4-pin	**2CLX9**	**2CLY1**
Plunger, Roller, AC 4-pin	**2CLX6**	—
Plunger, AC 4-pin	—	**2CLX7**

Roller Plunger

Plastic Rod

Roller Lever

Compact Enclosed Limit Switches

SQUARE D by Schneider Electric

- Enclosure: NEMA 1, 2, 4, 6, 6P, 12, and 13
- SPDT
- Temp. range: -4° to 221°F (-20° to 105°C)
- Completely sealed
- 40mm mounting holes

For use in limited access areas, these dependable switches feature a die-cast zinc housing and bottom cable exit. Similar to Honeywell MICRO SWITCH™ 914CE. UL Listed, CSA and CE Certified.

2G434

2G432

Actuator Style	Boot Sealed Actuator	Threaded Stem	Electrical Connection	AC Contact Rating	Body Width	Body Height	Body Depth	Mfr. Model	Item No.
Cat Whisker, Wobble Stick	No	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS05S0300	**2G434**
Cross Roller, Plunger	No	No	3 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS03S0100	**6HCG6**
Cross Roller, Plunger	No	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS03S0300	**2G430**
No Lever, Rotary	No	No	3 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS04S0100	**4B833**
No Lever, Rotary	No	No	6 ft Cable, 4 Wire, 16 AWG	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS04S0202	**6HCG8**
No Lever, Rotary	No	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS04S0300	**2G432**
No Lever, Rotary	No	No	12 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS04S0400	**6HCG9**
No Lever, Rotary	No	No	M12 4-Pin Connector	6A @ 240V	1.58 in	1.75 in	0.62 in	9007MS04S0084	**6HCG7**
Plunger	No	No	3 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS01S0100	**3KL68**
Plunger	No	No	6 ft Cable, Side Exit, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS01S0206	**6HCG1**
Plunger	No	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS01S0300	**2F996**
Plunger	No	No	18 ft Cable, 4 Wire, 16 AWG	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS01S0502	**6HCG2**
Plunger	Yes	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS10S0300	**2G436**
Plunger	Yes	No	18 ft Cable, Side Exit, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS10S0506	**6HCH3**
Plunger, Roller	No	No	3 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS02S0100	**3KL72**
Plunger, Roller	No	No	6 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS02S0200	**6HCG4**
Plunger, Roller	No	No	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS02S0300	**2F998**
Plunger, Roller	No	No	M12 4-Pin Connector	3A @ 240V	1.58 in	1.75 in	0.62 in	9007MS02S0054	**6HCG5**
Plunger, Roller	No	No	M12 4-Pin Connector	6A @ 240V	1.58 in	1.75 in	0.62 in	9007MS02S0084	**6HCG3**
Plunger, Roller	No	Yes	3 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS07S0100	**6HCH1**
Plunger, Roller	No	Yes	9 ft Cable, 4 Wire	10A @ 300V	1.58 in	1.75 in	0.62 in	9007MS07S0300	**6HCH0**

2F996

2G436

2EF10

Description	Mfr. Model	Item No.
Levers		
Nylon Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7A1N	**2EF10**
Steel Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7A1	**2EF09**
Steel Roller Lever, 1.5" Radius, ¾" Dia. x ¼" W Wheel, Back Mount	7XA1	**2F988**
Nylon Adjustable Radius Lever, 1⅜ to 3" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7DN	**2EF20**
Steel Adjustable Radius Lever, 1⅜ to 3" Radius, ¾" Dia. x ¼" W Wheel, Front Mount	7D	**2EF19**
Delrin Rod with Spring, 12" Radius, 0.3" Dia.	7S	**2EF24**

Compact Prewired Limit Switches

Dayton®

- Enclosure: NEMA 4, 6, 6P, 12, 13, and IP67
- Operating temp.: -14° to 185°F
- 10A, 300VAC/DC
- SPDT
- 3-yr. warranty

UL Listed, CSA and CE Certified.

Actuator Style	Boot Sealed Actuator	Threaded Stem	Mounting Hole Spacing	Body Width	Body Depth	PREWIRED CABLE Body Height	PREWIRED CABLE Item No.	M12 4-PIN CONNECTOR Body Height	M12 4-PIN CONNECTOR Item No.
Cat Whisker, Wobble Stick	No	No	25mm	1.57 in	0.63 in	1.97 in	**12T938**	—	—
Cross Roller, Plunger	No	No	25mm	1.57 in	0.63 in	1.97 in	**12T934**	—	—
Cross Roller, Plunger	No	Yes	25mm	1.57 in	0.63 in	—	—	1.97 in	**12T953**
Cross Roller, Plunger	Yes	No	25mm	1.57 in	0.63 in	—	—	1.97 in	**12T949**
Plunger	No	No	20mm	1.18 in	0.63 in	1.97 in	**12T944**	—	—
Plunger	No	Yes	20mm	1.18 in	0.63 in	1.97 in	**12T956**	—	—
Plunger	No	Yes	25mm	1.57 in	0.63 in	1.97 in	**12T931**	—	—
Plunger	No	Yes	25mm	1.57 in	0.63 in	1.97 in	**12T946**	—	—
Plunger	Yes	No	25mm	1.57 in	0.63 in	1.97 in	**12T932**	—	—
Plunger, Roller	No	No	20mm	1.18 in	0.63 in	1.97 in	**12T955**	—	—
Plunger, Roller	No	No	25mm	1.57 in	0.63 in	1.97 in	**12T933**	1.97 in	**12T941**
Plunger, Roller	Yes	No	25mm	1.57 in	0.63 in	1.97 in	**12T935**	—	—
Roller Lever, Rotary	No	No	25mm	1.57 in	0.63 in	1.97 in	**12T937**	1.97 in	**12T943**
Wobble Stick	Yes	No	25mm	1.57 in	0.63 in	1.97 in	**12T939**	1.97 in	**12T951**

12T934

12T931

12T946

12T932

12T933

12T937

12T939

MICRO SWITCH™ 914CE Series Compact Limit Switches

Honeywell

- Enclosure: NEMA 1, 2, 3, 3R, 4, 6, 6P, and 13; IP66/67/68
- 5A, 250VAC
- Operating temp.: 35° to 160°F
- SPDT

Mechanical life up to 10 million operations. Precabled wiring. Zinc die-cast housing with bottom exit. UL Listed, CSA and CE Certified.

Actuator Style	Boot Sealed Actuator	Threaded Stem	Mfr. Model	3 FT CABLE Item No.	6 FT CABLE Item No.	9 FT CABLE Item No.	3 FT CABLE, SIDE EXIT Item No.	9 FT CABLE, SIDE EXIT Item No.
Plunger	No	No	914CE1	**12U188**	**12U189**	**12U210**	**12U201**	—
Plunger	Yes	No	914CE18	**12U190**	**12U207**	**12U208**	—	**12U209** †
No Lever, Rotary	No	No	914CE16	**12U202** *	**12U204** *	**12U205** *	—	—
Wobble Stick	No	No	914CE20	**12U212**	**12U213**	**12U214**	—	—
Cross Roller, Plunger	No	No	914CE3	**12U216**	**12U217**	**12U219**	—	—
Ball Bearing, Plunger	No	No	914CE66	**12U221**	**12U222**	—	—	—

** Requires lever, sold separately, see Grainger.com®. † 9 ft. Cable.*

12U188

12U190

12U212

12U202

12U216

MICRO SWITCH™ Snap-Action Switches

Honeywell

24A083

24A112

6DXC4

6DXA7

6DXA6

- SPDT
- Screw terminal type, except 6DXD0 has solder terminals
- 1" on center mounting holes
- Overall dim.: 1"H x 2"L x 0.7"D

BZ, BA, and BE Series feature wide operating characteristics and enhanced mechanical life up to 20,000,000 cycles. They meet 125, 250, and 480VAC, regardless of amperage. Rugged construction, low operating force, and differential travel with momentary or mechanical contact action. Elongated mounting holes allow easy and accurate mounting. Compact and lightweight with accurate repeatability. Suitable for building controls and fire suppression systems, communication systems, machine tools, door latching mechanisms, and most simple On/Off actions. UL Listed and CSA Certified. BZ and BA Series are ENEC Certified.

Actuator Type	Lever Actuator Length	Operating Force	Mfr. Model	Item No.
BZ Series, 1 A @ 240 V				
Lever, Roller	1.05 in	6 oz	BZ-2RW82272-A2	**24A078**
BZ Series, 15 A @ 120 V				
Hinge, Lever	6 in	1 oz	BZ-2RW863-A2	**24A091**
Hinge, Lever	1.03 in	6 oz	BZ-2RW80147-A2	**24A068**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RN702	**24A042**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ-A2	**24A062**
Pin, Plunger	—	2.5 N	BZ-R178	**24A107**
Pin, Plunger	—	13 oz	BZ-2R72-A2	**24A031**
BZ Series, 15 A @ 240 V				
Hinge, Lever	2.5 in	2.47 oz	BZ-2RW805551-A2	**24A070**
Hinge, Lever	2.5 in	2.5 oz	BZ-2RW80	**24A067**
Hinge, Lever	6.31 in	—	BZ-2RW53-A2	**24A066**
Hinge, Lever, Long	2.5 in	0.7 N	BZ-2RW824-A2	**24A083**
Lever, Long, Roller	1.9 in	8 oz	BZ-2RW825551-A2	**24A084**
Lever, Roller, Short	1.05 in	6 oz	BZ-2RW82212-A2	**24A073**
Lever, Roller, Short	1.03 in	6 oz	BZ-2RW8225551-A2	**24A076**
Lever, Roller, Short	1.05 in	6 oz	BZ-2RW82255-A2-S	**24A077**
Overtravel Roller, Plunger	—	14.0 to 20.0 oz	BZ-3RQ1-A2	**24A097**
Overtravel Roller, Plunger, Short	—	19 oz	BZ-2RDS5551-A2	**24A034**
Panel Mount, Plunger	—	6 to 9.5 oz	BZ-RQ1-A2	**24A112**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ1T	**24A054**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ66	**24A056**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ68	**24A057**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ77	**24A059**
Panel Mount, Plunger	—	9 to 13 oz	BZ-2RQ784	**24A060**
Pin, Plunger	—	9 oz	BZ-R-A2	**24A111**
Pin, Plunger	—	9 to 13 oz	BZ-2R-P4	**24A048**
BZ Series, 15 A @ 480 V				
Hinge, Lever	2.5 in	1 oz	BZ-2RW84-A2	**6DXD4**
Hinge, Lever	2.5 in	2.5 oz	BZ-2RW80-A2	**6DXC9**
Lever, Long, Roller	1.9 in	3.5 oz	BZ-2RW82-A2	**6DXD3**
Lever, Long, Roller	1.26 in	6 oz	BZ-2RW826-A2	**6DXD2**
Lever, Roller	1.95 in	5 oz	BZ-2RL2-A2	**6DXC3**
Lever, Roller	1.03 in	6 oz	BZ-2RW822	**6DXD0**
Lever, Roller	1.03 in	6 oz	BZ-2RW822-A2	**6DXD1**
Overtravel Roller, Plunger	—	9 to 13 oz	BZ-2RD-A2	**6DXC2**
Overtravel Roller, Plunger	—	9 to 13 oz	BZ-2RQ181-A2	**6DXC4**
Overtravel Roller, Plunger	—	9 to 13 oz	BZ-2RQ18-A2	**6DXC5**
Overtravel Roller, Plunger	—	9 to 13 oz	BZ-2RQ1-A2	**6DXC6**
Overtravel Roller, Plunger	—	9 to 13 oz	BZ-2RS-A2	**6DXC8**
Pin, Plunger	—	9 to 13 oz	BZ-2R-A2	**6DXC1**
BA Series, 20 A @ 480 V				
Hinge, Lever	2.5 in	2.5 oz	BA-2RV-A4	**24A017**
Hinge, Lever	2.5 in	2.5 oz	BA-2RV-A2	**6DXA9**
Lever, Roller	1.9 in	3.5 oz	BA-2RV2-A2	**6DXA8**
Lever, Roller	1.05 in	6 oz	BA-2RV22-A2	**6DXA7**
Overtravel Roller, Plunger	—	14.0 to 22.0 oz	BA-2RB-A2	**6DXA5**
Overtravel Roller, Plunger	—	14.0 to 22.0 oz	BA-2RQ1-A2	**6DXA6**
Pin, Plunger	—	14.0 to 22.0 oz	BA-2R-A2	**6DXA4**
BE Series, 25 A @ 480 V				
Hinge, Lever	2.5 in	3.5 oz	BE-2RV-A4	**24A023**
Overtravel Roller, Plunger	—	2.5 oz	BE-2RB-A4	**24A019**
Overtravel Roller, Plunger	—	14.0 to 22.0 oz	BE-2RQ1-A4	**6DXC0**

24A293

24A297

24A316

24A275

24A286

24A244

24A268

24A265

Honeywell

MICRO SWITCH™ Miniature Switches

- 0.63"H x 1.14"L x 0.4"D
- Quick-connect terminals
- ⅞" mounting centers
- Temp. range: -40° to 180°F

Contact Form Switches	Lever Actuator Length	AC Contact Rating	Operating Force	Mfr. Model	Item No.
Lever, Long					
SPDT	0.09 in	3 A @ 240 V	1.94 oz	V7-6B19D8-057	**24A299**
SPDT	0.09 in	15 A @ 240 V	3 oz	V7-6C17D8-057	**24A306**
SPDT	1.29 in	15 A @ 240 V	0.912 N	V7-6C13D8-132	**24A302**
SPDT	1.41 in	0.1 A @ 120 V	3 oz	V7-1S17D8-022	**24A266**
SPDT	1.41 in	3 A @ 240 V	1.41	V7-2B17D8-022	**24A277**
SPDT	1.41 in	10 A @ 240 V	0.29 N	V7-3E17E9-022	**24A290**
SPDT	1.41 in	15 A @ 240 V		V7-1C17D8-022	**24A252**
SPDT	2 in	3 A @ 240 V	60 gf max	V7-7B17D8-048	**24A312**
SPDT	2.02 in	5 A @ 240 V	0.45 N	V7-1A17D8-048	**24A236**
SPDT	2.34 in	0.1 A @ 120 V	0.16 N	V7-3S17D8-048	**24A293**
SPDT	2.34 in	3 A @ 240 V	1.7 oz	V7-1B17D8-048	**24A242**
SPDT	2.34 in	3 A @ 240 V	0.71 oz	V7-2B17D8-048	**24A278**
SPDT	2.34 in	15 A @ 240 V	1.59 oz	V7-1C17D8-048	**24A253**
SPDT	2.34 in	21 A @ 240 V	1.94 oz	V7-1V19E9-048	**24A270**
SPDT	2.44 in	5 A @ 240 V	0.37 N	V7-1A17D8-057	**24A237**
SPDT	4 in	3 A @ 240 V	0.1 N	V7-2B17D8-162	**24A279**
SPDT	4 in	15 A @ 240 V	0.83 N	V7-6C17D8-162	**24A307**
1NO	1.41 in	11 A @ 125 V	0.4 N	V7-2B27D8-022	**24A284**
1NC	1.75 in	15 A @ 240 V	1.67 N	V7-6C37E9-036	**24A310**
Lever, Long, Paddle					
SPDT	2.55 in	3 A @ 240 V	0.1 oz	V7-5F17D8-336	**24A297**
Lever, Long, Roller					
SPDT	1.35 in	1 A @ 120 V	5 oz	V7-7D17D8-207	**24A316**
SPDT	1.35 in	3 A @ 240 V	1.59 oz	V7-2B17D8-207	**24A282**
SPDT	1.35 in	15 A @ 240 V	3.17 oz	V7-1C17D8-207	**24A255**
Lever, Roller					
SPDT	1.35 in	5 A @ 240 V	0.42 N	V7-2A17D8-207	**24A275**
Lever, Roller, Short					
SPDT	0.82 in	0.1 A @ 120 V	0.88 N	V7-2S17D8-201	**24A286**
SPDT	0.82 in	3 A @ 240 V	3.1 oz	V7-2B17D8-201	**24A281**
SPDT	0.82 in	3 A @ 240 V	10 oz	V7-7B17D8-201	**24A313**
SPDT	0.82 in	15 A @ 240 V	6.1 oz	V7-1C13D8-201	**24A249**
SPDT	0.82 in	15 A @ 240 V	6.1 oz	V7-1C17D8-201	**24A254**
SPDT	0.82 in	15 A @ 240 V	6.1 oz	V7-1C17E9-201	**24A260**
Lever, Short					
SPDT	0.87 in	15 A @ 240 V	5.5 oz	V7-1C17D8-002	**24A251**
SPDT	1.41 in	3 A @ 240 V		V7-1B17D8-022	**24A241**
SPDT	1.41 in	3 A @ 240 V		V7-1B19D8-022	**24A247**
SPDT	1.63 in	3 A @ 240 V	0.42 N	V7-1B17D8-122	**24A244**
Lever, Simulated Roller					
SPDT	0.97 in	10 A @ 240 V	33 gf max	V7-3E19E9-263	**24A291**
SPDT	1.15 in	3 A @ 240 V	0.3 oz	V7-5F17D8-289	**24A296**
SPDT	1.29 in	0.1 A @ 120 V	3.17 oz	V7-1S17D8-263	**24A268**
SPDT	1.29 in	11 A @ 240 V	5 oz	V7-7B19D8-263	**24A314**
SPDT	1.29 in	11 A @ 277 V	3.17 oz	V7-1B17D8-263	**24A246**
SPDT	1.29 in	15 A @ 240 V	3.2 oz	V7-1C17D8-263	**24A256**
SPDT	1.29 in	15 A @ 240 V	8 oz	V7-6C17D8-263	**24A308**
Pin, Plunger					
SPDT		0.1 A @ 120 V	5 oz	V7-1S17D8	**24A265**
SPDT		3 A @ 240 V	5.3 oz	V7-1B17D8	**24A240**
SPDT		3 A @ 240 V	2.63 oz	V7-2B17D8	**24A276**
SPDT		3 A @ 240 V	0.74 N	V7-2B17E9	**24A283**
SPDT		3 A @ 240 V	0.53 oz	V7-5F17D8	**24A295**
SPDT		3 A @ 240 V	6 to 14 oz	V7-6B19D8	**24A298**
SPDT		5 A @ 240 V	0.25 N	V7-4A17D8	**24A294**
SPDT		10 A @ 240 V	1.7 oz	V7-3E17D8	**24A288**
SPDT		10 A @ 240 V	0.49 N	V7-3E17E9	**24A289**
SPDT		15 A @ 240 V	5.3 oz	V7-1C17D8	**24A250**
SPDT		15 A @ 240 V	5.3 oz	V7-1C17E9	**24A259**
SPDT		15 A @ 240 V	6 to 14 oz	V7-6C17D8	**24A303**
SPDT		21 A @ 240 V	7.9 oz	V7-1V19E9	**24A269**
SPDT		25 A @ 240 V	7.9 oz	V7-1Z19E9	**24A273**
1NO		15 A @ 240 V	1.47 N	V7-1C27E9	**24A262**
1NO		21 A @ 240 V	2.22 N	V7-1V29E9	**24A272**
1NC		3 A @ 240 V	1.47 N	V7-1B37D8	**24A248**
1NC		15 A @ 240 V	5.3 oz	V7-1C37D8	**24A263**

OMRON®

Snap-Action Switches

Functionally interchangeable with Unimax 2HB series. UL Recognized and CSA Certified.

Series A—For heavy-duty applications.

Series Z—High-precision general-purpose switches. 3XG49 is dripproof (IP62).

Series X—For DC applications.

Series DZ—Switches have 2 circuits.

Series TZ—High-temperature switches with max. ambient and operating temp. of 752°F (400°C).

3XG30

6X284

6X285

2XC12

3XG53

6X286

2XC11

6X283

3XG52

3XG50

Actuator Type	Lever Actuator Length	SERIES A, SPDT, 20 A @ 480 VAC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.	SERIES Z, SPDT, 15 A @ 480 VAC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.	SERIES X, SPDT, 10 A @ 120 VDC Screw Terminal Operating Force	Item No.	Solder Lug Terminal Operating Force	Item No.
Hinge, Lever	2.5 in	2.5 oz	**6X289**	2.47 oz	**2KRK6**	2.5 oz	**6X284**	2.47 oz	**2KRN1**	3.88 oz	**2KRP4**	3.88 oz	**2KRR6**
Hinge, Lever	2.5 in	—	—	—	—	0.99 oz	**3XG54**	0.99 oz	**2KRN3**	0.88 oz	**2KRP6**	—	—
Hinge, Lever, Short	1.12 in	5.65 oz	**2KRJ9**	5.65 oz	**2KRK8**	—	—	—	—	—	—	—	—
Hinge, Lever, Short	1.11 in	—	—	—	—	5.65 oz	**2KRL1**	—	—	—	—	8.83 oz	**2KRR9**
Hinge Roller, Lever	1.91 in	3.2 oz	**6X290**	3.18 oz	**2KRK7**	3.5 oz	**6X285**	—	—	5.12 oz	**2KRP5**	5.12 oz	**2KRR7**
Hinge Roller, Lever	1.05 in	—	—	—	—	—	—	4.59 oz	**2KRN2**	—	—	—	—
Hinge Roller, Lever, Short	1.03 in	5.6 oz	**2XC10**	5.65 oz	**2KRK9**	—	—	—	—	—	—	—	—
Hinge Roller, Lever, Short	1.05 in	—	—	—	—	5.6 oz	**2XC12**	7.06 oz	**2KRN5**	7.77 oz	**2KRP8**	7.77 oz	**2KRT1**
Lever, Roller	1.26 in	—	—	—	—	6 oz	**3XG53**	6.35 oz	**2KRN6**	—	—	—	—
Panel Mount, Plunger	—	14.1 to 22.0 oz	**6X288**	14.12 to 22.06 oz	**2KRK3**	8.8 to 12.3 oz	**6X286**	19.06 oz	**2KRL7**	18 oz	**2KRP1**	—	—
Panel Mount, Plunger, Roller	—	22.24 oz	**2KRJ8**	22.24 oz	**2KRK5**	8.8 to 12.3 oz	**2XC11**	8.83 to 12.36 oz	**2KRL9**	18 oz	**2KRP3**	—	—
Pin, Plunger	—	14.1 to 22.0 oz	**6X287**	14.12 to 22.06 oz	**2KRK1**	8.8 to 12.3 oz	**6X283**	8.83 to 12.36 oz	**2KRL2**	18 oz	**2KRN7**	18 oz	**2KRP9**
Plunger	—	—	—	—	—	19.1 oz	**3XG52**	8.83 to 12.36 oz	**2KRL4**	—	—	—	—
Plunger	—	—	—	—	—	8.8 to 12.3 oz	**3XG51**	8.83 to 12.36 oz	**2KRL3**	—	—	18 oz	**2KRR1**
Plunger, Short	—	—	—	—	—	19.1 oz	**3XG49**	19.1 oz	**2KRL6**	—	—	—	—
Plunger, Short	—	14.1 to 22.0 oz	**3XG30**	14.12 to 22.06 oz	**2KRK2**	8.8 to 12.3 oz	**3XG48**	8.83 to 12.36 oz	**2KRL5**	18 oz	**2KRN9**	—	—
Roller, Panel Mount, Plunger	—	22.24 oz	**2KRJ7**	22.24 oz	**2KRK4**	8.8 to 12.3 oz	**3XG50**	19.06 oz	**2KRL8**	18 oz	**2KRP2**	18 oz	**2KRR5**

Actuator Type	Over Travel	SERIES DZ, DPDT, 10 A @ 240 VAC Screw Terminal Item No.	Solder Lug Terminal Item No.	SERIES TZ, SPDT, 1 A @ 240 VAC Screw Terminal Item No.
Hinge, Lever	0.016 in	**3XG31**	**2KRT4**	—
Hinge, Lever	0.063 in	**6C917**	**2KRT7**	—
Hinge, Lever	0.181 in	—	—	**2KRU2**
Hinge Roller, Lever	0.005 in	**3XG32**	**2KRT6**	—
Hinge Roller, Lever	0.035 in	**6C918**	**2KRT9**	—

Actuator Type	Over Travel	SERIES DZ, DPDT, 10 A @ 240 VAC Screw Terminal Item No.	Solder Lug Terminal Item No.	SERIES TZ, SPDT, 1 A @ 240 VAC Screw Terminal Item No.
Hinge Roller, Lever	0.047 in	**6C919**	**2KRT8**	—
Hinge Roller, Lever	0.138 in	—	—	**2KRU3**
Hinge Roller, Lever, Short	0.075 in	—	—	**2KRU4**
Pin, Plunger	0.005 in	**6C916**	**2KRT3**	**2KRU1**

Snap-Action Switches

Designed with 10, 15, 20, 25A ratings and a wide variety of actuators for differen applications. Provide high precision with long mechanical life. V Series feature low operating force and miniature size. Z Series have a high motor-load rating. For use with direct-to-switch loads like motors, halogen lamps, and solenoids; also for use with foot switches, flow switches, door interlocks, and applications requiring compact or miniature switches. UL and C-UL Listed. RoHS compliant.

6A887

6X292

5JEE4

5JEE9

Actuator Type	AC Contact Rating	Lever Actuator Length	Operating Force	Height	Width	Depth	Item No.
S Series, ¼ in Quick Connect Terminals, 1.00 in Centers, DPDT							
Hinge, Lever	15 A @ 240 V	1.5 in	7.48 oz	1.12 in	1.82 in	0.64 in	**5JEH2**
Hinge Roller, Lever	15 A @ 240 V	1.39 in	7.48 oz	1.12 in	1.82 in	0.64 in	**5JEH3**
Hinge Roller, Lever	20 A @ 240 V	1.39 in	14.98 oz	1.12 in	1.82 in	0.64 in	**5JEH8**
S Series, ¼ in Quick Connect Terminals, 1.00 in Centers, SPDT							
Panel Mount, Plunger	15 A @ 240 V	—	14.98 oz	0.64 in	1.82 in	0.64 in	**6A887**
V Series, 3/16 in Quick Connect Terminals, 0.87 in Centers, SPDT							
Hinge, Lever	10 A @ 125/250 V	1.07 in	1.31 oz	0.62 in	1.09 in	—	**6X292**
Hinge, Lever, Long	10 A @ 240 V	2.01 in	0.72 oz	0.62 in	1.09 in	0.41 in	**5JDZ9**
Hinge, Lever, Short	10 A @ 240 V	1.09 in	7.05 oz	0.62 in	1.09 in	—	**5JEA4**
Lever, Long, Roller	15 A @ 240 V	1 in	4.41 oz	0.62 in	1.09 in	0.41 in	**5JEC6**
Plunger	15 A @ 240 V	—	7.05 oz	0.62 in	1.09 in	—	**5JEC0**
Z Series, Screw Terminals, 1.00 in Centers, SPDT							
Hinge, Lever	15 A @ 480 V	2.5 in	0.99 oz	1.51 in	1.94 in	0.69 in	**5JEE1**
Hinge, Lever	25 A @ 480 V	1.5 in	3.53 oz	0.64 in	1.82 in	0.64 in	**5JEG2**
Hinge Roller, Lever	15 A @ 480 V	1.04 in	5.64 oz	1.66 in	1.94 in	0.69 in	**5JEE4**
Hinge Roller, Lever	20 A @ 480 V	1.91 in	3.53 oz	2.02 in	1.94 in	0.69 in	**5JEF2**
Hinge Roller, Lever	25 A @ 480 V	1.39 in	3.53 oz	0.64 in	1.82 in	0.64 in	**5JEG3**
Leaf, Lever	15 A @ 480 V	1.94 in	5.29 oz	1.18 in	0.69 in	—	**5JEE6**
Leaf Roller, Lever	15 A @ 480 V	1.94 in	5.29 oz	1.62 in	1.94 in	—	**5JEE7**
Panel Mount, Plunger	20 A @ 480 V	—	22.03 oz	1.28 in	1.94 in	—	**5JEF0**
Panel Mount, Plunger	25 A @ 480 V	—	22.03 oz	1.28 in	1.94 in	—	**5JEF8**
Panel Mount, Plunger, Roller	15 A @ 480 V	—	12.34 oz	1.7 in	1.94 in	—	**5JED9**
Pin, Plunger	15 A @ 480 V	—	12.34 oz	0.95 in	1.94 in	—	**5JED4**
Pin, Plunger	25 A @ 480 V	—	14.98 oz	0.64 in	1.82 in	—	**5JEG0**
Plunger, Short	15 A @ 480 V	—	12.34 oz	1.23 in	1.94 in	—	**5JED5**
Plunger, Short	20 A @ 480 V	—	22.03 oz	1.45 in	1.94 in	—	**5JEE9**

Cable Pull Emergency Stop Switch

Cable Kit 10N099

Cable Pull Emergency Stop Switch and Cable Tension Kits

STI SAFETY, TECHNOLOGY & INNOVATION / OMRON

- Die-cast alloy case
- Vibration tolerant—no nuisance tripping
- NEMA 6 (IP66)

Combination cable and push button-actuated switch handles cable spans up to 246 ft. (75m). Built-in tension status indicator eases installation and troubleshooting. Heavy-duty housing stands up to demanding industrial applications and withstands water washdown cleaning. An integral E-stop button provides emergency stopping capability at the end of a cable run. Lid-mounted status indicator allows easy setup and maintenance. Designed for a minimum of 1 million actuations. Cable tension kit required, sold separately. UL and C-UL Listed and CE Certified.

AC Contact Rating	Operating Force	Reset	Contact Form	Mfr. Model	Item No.
Cable Pull Emergency Cable Pull Switch Switch					
3A @ 240V AC, 6A @ 120V AC	28 lb	Push Button	2NC/1NO	44506-5220	**10N118**

For Use With	Mfr. Model	Item No.
Cable Kits		
Mfr. No. ER6022-021NE	44506-2705	**10N099**
Mfr. No. ER6022-021NE	44506-2710	**10N101**
Mfr. No. ER6022-021NE	44506-2720	**10N104**
Mfr. No. ER6022-021NE	44506-2730	**10N111**

Description	Mfr. Model	Item No.
Mounting Accessories		
Eyebolt	44506-0720	**2LCE5**
Spring Tension	44506-0730	**2LCE6**

11CPSA Series 11T746

2CPSA Series 11T762

Emergency Cable Pull Switches

Honeywell

- 15A, 300VAC/DC
- Maintained contacts

NEMA rated 1, 4, 12, 13, and IP67. Rotary knob reset. ½" NPT conduit entry.

Contact Form	NONE Mfr. Model	NONE Item No.	INDICATOR 24V DC RED LED Mfr. Model	24V DC RED LED Item No.	120V AC RED LED Mfr. Model	120V AC RED LED Item No.
1CPSA Series, Single Cable, Left or Right Side Actuated, 250 ft Cable Span						
1NC/1NO, Gold-Plated	1CPSA5	**11T756**	—	—	—	—
1NC/1NO, Silver	1CPSA1	**11T746**	1CPSA1A	**11T747**	1CPSA1B	**11T748**
2NC/2NO, Gold-Plated	—	—	1CPSA6A	**11T758**	—	—
2NC/2NO, Silver	1CPSA2	**11T749**	1CPSA2A	**11T750**	1CPSA2B	**11T751**
2CPSA Series, Dual Cable, Left and Right Side Actuated, 500 ft Cable Span						
2NC/2NO, Gold-Plated	2CPSA1A1	**11T762**	2CPSA2A1A	**11T781** *	2CPSA1A1B	**11T764**
3NC/1NO, Gold-Plated	2CPSA1B1	**11T771**	—	—	—	—
2CPSA Series, Single Cable, Left Side Actuated, 250 ft Cable Span						
2NC/2NO, Gold-Plated	—	—	—	—	2CPSA1A2B	**11T767**

** Includes removable contact blocks.*

L1 Series 2FM01

XY2CE Series 4B785

Cable Kit 4B778

Cable Pull Switches

SQUARE D by Schneider Electric / Telemecanique Sensors

Switches signal an emergency or normal stop at any point along a 165-ft. cable. Taut-cable principle ensures switch will activate if the cable is broken. Positive latching, force, and adjustment indicators. UL Listed and CSA Certified.

Emergency cable pull features latching contact (reset by push button) and positive opening contacts. Normal cable pull provides momentary action (no reset) and snap-action contact. 4B787 and 4B784 are recommended for outdoor applications where icy conditions are likely. 2FM01 provides 600VAC max. service for industrial applications.

CABLE KITS

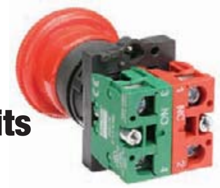
Contain 1 galvanized steel cable with red jacket, 1 turnbuckle, 4 cable grip clamps, 1 fixed cable support, 1 end spring, and 3 wire end protective guards.

Switch Function	Cable Connection Location	Reset	Contact Form	Indicator	Brand	Mfr. Model	Item No.
L1 Series Cable Pull Switches							
Maintained	Right	Not Applicable	1NC/1NO	None	Square D	L1432M	**2FM01** *
XY2CE Series Cable Pull Switches							
Maintained	Right	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE1A150H7	**4B789**
Maintained	Right	Booted Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE1A250H7	**4B787**
Maintained	Right	Push Button	2NC/2NO	24/120V AC LED	Telemecanique Sensors	XY2CE1A196H7	**4B788**
Maintained	Left	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE2A150H7	**4B786**
Maintained	Left	Booted Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE2A250H7	**4B784**
Maintained	Left	Push Button	2NC/2NO	24/120V AC LED	Telemecanique Sensors	XY2CE2A196H7	**4B785**
Momentary	Right	Push Button	1NC/1NO	None	Telemecanique Sensors	XY2CE3A010H7	**4B783**
Momentary	Left	—	1NC/1NO	None	Telemecanique Sensors	XY2CE4A010H7	**4B782**
Cable Kits and Accessories							
Cable Kit, 82 ft					Telemecanique Sensors	XY2CZ9325	**4B779**
Cable Kit, 164 ft					Telemecanique Sensors	XY2CZ9350	**4B778**
Cable Grip, Single, For 0.118 in to 0.196 in Cable Dia.					Telemecanique Sensors	XY2CZ503	**4B781**
Cable Support, 0.35" Deep, 5⁄16" Coarse Thread					Telemecanique Sensors	XY2CZ601	**4B780**

** Requires lever arm 2EH37, sold separately.*

Dayton

22mm E-Stops, Mushroom-Head Push Buttons—Complete Units



30G254

- Red, 40mm-dia. head
- Maintained contact
- NEMA 1, 2, 3, 4, 4X, 12, and 13 rated

Action	Contact Form	PLASTIC Item No.	CHROME DIE CAST ALUMINUM Item No.
Push / Turn To Release	1NC	**30G252**	**30G253**
Push / Turn To Release	1NO/1NC	**30G254**	**30G255**
Push / Pull - Trigger Release	1NO/1NC	**30G250**	**30G251**
Push / Pull	1NC	**30G248**	**30G249**
Push / Key Release	1NC	**30G256**	**30G257**
Push / Key Release	1NO/1NC	**32UK35**	**30G258**

Schneider Electric

22mm Emergency Stop Mushroom-Head Push Buttons—Complete Units

2UZD4

- Red, 40mm dia. trigger-action operator
- No-notch mounting
- NEMA rated 1, 2, 3, 4, 4X, 12, and 13

Include operator, cap, and contact block for easy installation. UL Listed, CSA Certified, and CE Certified. Meet IEC standards.

Description	Contact Form	PLASTIC Item No.	CHROME Item No.
Turn to Release, Maintained, Trigger Release	1NO/1NC	**6HL63**	**6HK79**
Turn to Release, Maintained, Trigger Release	1NC	**33HP37**	—
Push-Pull, Maintained, Trigger Release	1NO/1NC	**2UZD4**	**6HK82**
Push-Pull, Maintained	1NC	**33HP38**	**33HP36**
Key Release, Maintained, Trigger Release	1NO/1NC	**2UZD6**	**6HK80**

Emergency Stop Switches, Enclosure, and Legend Plates

Sti SAFETY, TECHNOLOGY & INNOVATION

OMRON

2LCB1

SWITCHES
- Plastic construction
- Red operator

Switches allow direct disconnect of circuit contacts in emergency situations. Easy to spot, access, and use. On/Off operation, push to lock, turn to reset. Safety lock mechanism prevents operating errors; finger protection mechanism for added safety. Easy mounting and removal of switch blocks, using a lever. Oil-resistant to IP65. UL Listed and CE Certified.

Contact Type	NONLIGHTED Size	NONLIGHTED Mfr. Model	NONLIGHTED Item No.	LIGHTED Size	LIGHTED Voltage	LIGHTED Mfr. Model	LIGHTED Item No.
16mm Mount, 5A at 125VAC, 3A at 250VAC							
SPST-NC	16 mm	A165E-S-01	**2LCB3**	16 mm	24V AC/DC	A165E-LS-24D-01	**2LCB1**
DPST-NC	16 mm	A165E-S-02	**2LCB4**	16 mm	24V AC/DC	A165E-LS-24D-02	**2LCB2**
22mm Mount, 10A at 110VAC, 6A at 220VAC							
DPST-NC	22 mm	A22E-M-02	**2LCB8**	22 mm	24V AC/DC	A22ELM24A02	**2LCB7**
DPST-NC	22 mm	A22EM02B	**2LCB9** *	—	—	—	—
DPST-NC, SPST-NO	22 mm	A22E-M-12	**2LCC1**	—	—	—	—
DPST-NC	22 mm	A22E-L-02	**2LCB6**	—	—	—	—

** With integrated control box.*

2LCB6

No. of Holes	Hole Size	H (in.)	W (in.)	D (in.)	Contact Block Depth (in.)	Mfr. Model	Item No.
Control Box Pushbutton Enclosure, NEMA 4X, Yellow Plastic							
1	22 mm	2.67	2.67	2.73	2.15	A22Z-B101Y	**2LCC2**

Description	Mfr. Model	Item No.
Legend Plates		
Blank, For Use with 16mm Push-Buttons, Yellow Field	A16Z-5070	**2LCB5**
"Emergency Stop", For Use with 22mm Push-Buttons, Black Letters on Yellow Field	A22Z-3466-1	**2LCC3**
"Emergency Off", For Use with 22mm Push-Buttons, Black Letters on Yellow Field	A22Z-3466-2	**2LCC4**

EATON

22mm and 30mm Emergency Stop Push Buttons

30XF73

39P798

- Red mushroom head
- Nonilluminated

Action	Contact Form	Legend	Head Material	Mfr. Model	Item No.
22 mm Hole Dia., 45mm Mushroom Head					
Main. Push / Main. Pull	1NC	No Legend	Plastic	M22-PV-K01	**30XF74**
Main. Push / Turn To Release	1NC	No Legend	Plastic	M22-PVT-K01	**30XF75**
Main. Push / Turn To Release	2NC	No Legend	Plastic	M22-PVT-K02	**30XF73**
30 mm Hole Dia., 40mm Mushroom Head					
Main. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T9B62-3X	**39P798**
Main. Push / Main. Pull	1NC	Emergency Stop	Metal	10250T5B63-71X	**39P790**
Main. Push / Main. Pull	1NC	No Legend	Plastic	10250T5B62-71X	**39P789**
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Metal	10250T5B63-1X	**39P794**
Main. Push / Main. Pull	1NO/1NC	No Legend	Metal	10250T5B62-1X	**39P793**
Mom. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T4B62-3X	**39P802** †
Mom. Push / Main. Inter. / Mom. Pull	1NC	No Legend	Metal	10250T10B62-1X	**39P804** ‡
30 mm Hole Dia., 65mm Mushroom Head					
Main. Push / Main. Pull	1NC	Emergency Stop	Metal	10250T5J63-71X	**39P792**
Main. Push / Main. Pull	1NC	No Legend	Metal	10250T5J62-71X	**39P791**
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Aluminum	10250T5J63-1X	**39P795**
Main. Push / Main. Pull	1NO/1NC	Emergency Stop	Aluminum	10250ED1080-2	**39P796** *

** Special security jumbo mushroom head. † Contact configuration: XX OX OO*
‡ Contact configuration: OX OO XO

Emergency Push-Button Stations

GE

29YK60

- 600VAC
- Contact: 1NC
- Contact rating: 10A, A600/Q300

Designed with red operator. Wall-mountable. Metallic series includes legend. UL Listed, CSA Certified.

Type of Operator	H	W	D	Mfr. Model	Item No.
Non-Metallic, NEMA 4X					
Push Button with Mushroom Head	2.83 in	2.83 in	2.1 in	ESNM	**29YK51**
Push Button with Flag	2.83 in	2.83 in	2.1 in	ESNMF	**29YK52**
Mushroom Head with Key	2.83 in	2.83 in	2.1 in	ESNMK	**29YK53**
Cast Aluminum, NEMA 4X					
Push Button with Mushroom Head	3.43 in	3.43 in	2.95 in	ESCA	**29YK60**
Mushroom Head with Flag	3.43 in	3.43 in	2.95 in	ESCAF	**29YK61**
Mushroom Head with Key	3.43 in	3.43 in	2.95 in	ESCAK	**29YK62**
Stainless Steel, NEMA 4X					
Push Button with Mushroom Head	5 in	3.5 in	4.25 in	ESSS	**29YK57**
Push Button with Flag	5 in	3.5 in	4.25 in	ESSSF	**29YK58**
Push Button with Key	5 in	3.5 in	4.25 in	ESSSK	**29YK59**
Carbon Steel, NEMA 12					
Push Button with Mushroom Head	5 in	3.5 in	4.25 in	ESCS	**29YK54**
Push Button with Flag	5 in	3.5 in	4.25 in	ESCSF	**29YK55**
Mushroom Head with Key	5 in	3.5 in	4.25 in	ESCSK	**29YK56**

Dayton

Emergency Push-Button Stations

- Contact: 1NC
- Contact rating: 10A at 600VAC
- Maintained operators are push/pull action

Gray enclosures. Red plastic operator heads have imprinted "Emergency Stop." UL Listed and CSA Certified.

Description	H	W	D	Momentary Item No.	Maintained Item No.
Stainless Steel, NEMA 4X					
40mm Dia. Head	5.5 in	3.5 in	4.25 in	**36UX17**	**36UX18**
65mm Dia. Head	5.5 in	3.5 in	4.25 in	**36UX19**	**36UX20**
40mm Dia. Illum. Head, 24VAC/DC	5.5 in	3.5 in	4.25 in	**36UX21**	**36UX22**
40mm Dia. Illum. Head, 120VAC/DC	5.5 in	3.5 in	4.25 in	**36UX23**	**36UX24**
Carbon Steel, NEMA 12					
40mm Dia. Head	5.5 in	3.5 in	4.25 in	**36UX25**	**36UX26**
65mm Dia. Head	5.5 in	3.5 in	4.25 in	**36UX27**	**36UX28**
40mm Dia. Illum. Head, 24VAC/DC	5.5 in	3.5 in	4.25 in	**36UX29**	**36UX30**
40mm Dia. Illum. Head, 120VAC/DC	5.5 in	3.5 in	4.25 in	**36UX31**	**36UX32**
Valox, NEMA 4X					
40mm Dia. Head	4.36 in	3.18 in	3.66 in	**36UX33**	**36UX34**
65mm Dia. Head	4.36 in	3.18 in	3.66 in	**36UX35**	**36UX36**
40mm Dia. Illum. Head, 24VAC/DC	4.36 in	3.18 in	3.66 in	**36UX37**	**36UX38**
40mm Dia. Illum. Head, 120VAC/DC	4.36 in	3.18 in	3.66 in	**36UX39**	**36UX40**

36UX17

20LE98

2LCC7

2LCC9

2LCE8

2LCH6

Safety Interlock Switches

STI SAFETY, TECHNOLOGY & INNOVATION · OMRON

TONGUE-OPERATED

Heads can be rotated in 4 directions, 8 for T2007 Series. Rated 5A at 100VAC, 2A at 250VAC, 1A at 500VAC, 2A at 24VDC, 0.5A at 250VDC. Includes ½" NPT conduit adapter.

D4NS Series—Switches handle both standard loads and micro-loads. Actuation keys sold separately.

D4BS Series—Actuation key (sold separately) prevents malfunctions and false operation. Switches conform to EN (TUV), BIA, and SUVA standards. UL Listed and CSA Certified.

TL4019 Series—Withstand water washdown cleaning. Feature 4 contacts and rear manual release. Narrow profile with rotatable head. Optional key release and optional slide bolt.

T2007 Series—Withstand water washdown cleaning. Min. 1 million actuations. Fit on 1" square tubing.

MAGNETICALLY ACTUATED, MA-16 SERIES

Completely encapsulated for use in harsh or wet environments. Tolerate guard door misalignment up to 10mm (0.39"). Min. 1 million actuations. UL and C-UL Listed and CE Certified.

W	H	D	1NO/1NC Item No.	1NO/2NC Item No.	2NC Item No.
Tongue-Operated, D4NS Series, 250VDC/500VAC, IP67, -30° to 70°C, M20 Conduit Size, Requires Key					
1.2188 in	4.7656 in	1.1875 in	**20LF01**	**20LF03**	**20LF02**
Tongue-Operated, D4BS Series, 250VDC/500VAC, IP67, -40° to 80°C, M20 Conduit Size, Requires Key					
1.5625 in	4.375 in	1.6875 in	**20LE98**	—	**20LE99**

Straight Item No.	Adjustable Straight Item No.	Right Angle Item No.
Actuation Keys		
2LCC7	2LCC9	2LCC8
Actuation Keys		
2LCD4	2LCD6	2LCD5

Description	W	H	D	1NC Item No.	1NO/1NC Item No.	1NO/2NC Item No.	2NC Item No.	2NO/2NC Item No.
Tongue-Operated, TL4019 Series, 250VDC/500VAC, NEMA 6, -4° to 131°F, M20 Conduit Size, Include Flat Key								
24VAC Solenoid, Flat Actuator	1.57 in	7.56 in	1.57 in	—	—	—	—	**10N125**
Tongue-Operated, T2007 Series, 250VDC/500VAC, NEMA 6, -4° to 176°F, M16 Conduit Size, Include Flat Key								
90° Actuator	0.98 in	1.14 in	2.95 in	—	**2LCH8**	—	**2LCH6**	—
Flat Actuator	0.98 in	1.14 in	2.95 in	—	**2LCH9**	—	**2LCH7**	—
Magnetically Actuated, MA-16 Series, ABS Body, NEMA 6, 14° to 131°F, Includes Actuator								
12 to 240VAC, 3m Cable	0.75"	0.75"	3.31"	**2LCE8**	**2LCF1**	**2LCF5**	**2LCF3**	—
12 to 240VAC, 5m Cable	0.75"	0.75"	3.31"	**2LCE9**	**2LCF2**	**2LCF6**	**2LCF4**	—
12 to 24VDC, 3m Cable	0.75"	0.75"	3.31"	**2LCF7**	**2LCF9**	**2LCG4**	**2LCG2**	—
12 to 24VDC, 5m Cable	0.75"	0.75"	3.31"	**2LCF8**	**2LCG1**	**2LCG5**	**2LCG3**	—

10D242

10D243

10D245

10D285

14L743

14L754

10D253

Safety Interlock Switches

Telemecanique Sensors

XCS models are used for packaging, food and beverage, automotive/machine tool, and material handling applications. XCSLE and XCSLF models are used for cutting, slicing, shredding, grinding, mixing, packaging, and other processes where chemicals or fumes may be dangerous. IP67 rated.

Item	For Use With XCSA, XCSB, XCSC, XCSE Mfr. Model	Item No.	XCSPA, XCSTE Mfr. Model	Item No.	XCSMP Mfr. Model	Item No.
Actuating Keys						
Straight Actuating Key	XCSZ01	**10D260**	XCSZ11	**10D264**	XCSZ81	**10D269**
Wide Mounting Actuating Key	XCSZ02	**10D261**	XCSZ12	**10D265**	—	—
Pivoting Actuating Key	XCSZ03	**10D262**	XCSZ13	**10D266**	—	—
Sliding Bolt Actuating Key	XCSZ05	**10D263**	—	—	—	—
Right Angle Actuating Key	—	—	XCSZ14	**10D267**	XCSZ84	**10D271**
Pivoting Actuating Key for Right-Hand Door	—	—	—	—	XCSZ83	**10D270**
Pivoting Actuating Key for Left Hand Door	—	—	—	—	XCSZ85	**10D272**
Guard Retaining Device	—	—	XCSZ21	**10D268**	—	—

Description	Actuator Length	Solenoid Voltage	H	W	D	Contact Form	Mfr. Model	Item No.	Contact Form	Mfr. Model	Item No.
Actuating Key											
½ in NPT Conduit	Key Dependent	—	1.73 in	1.57 in	4.47 in	1NO/2NC	XCSA703	**10D242**	—	—	—
½ in NPT Conduit	Key Dependent	—	1.18 in	1.18 in	4.21 in	2NC	XCSPA793	**10D252**	1NO/1NC	XCSPA593	**10D251**
6.6 ft Dead End Cable	Key Dependent	—	0.59 in	1.18 in	3.42 in	1NO/1NC	XCSMP59L2	**10D247**	1NO/2NC	XCSMP70L2	**10D248**
6.6 ft Dead End Cable	Key Dependent	—	0.59 in	1.18 in	3.42 in	2NC	XCSMP79L2	**10D249**	3NC	XCSMP80L2	**10D250**
Actuating Key, Push Button Release											
½ in NPT Conduit	Key Dependent	—	1.73 in	2.05 in	4.47 in	1NO/2NC	XCSB703	**10D243**	—	—	—
Actuating Key, Solenoid Locking											
½ in NPT Conduit	Key Dependent	24V	1.73 in	3.86 in	5.75 in	1NO/2NC	XCSE7313	**10D245**	—	—	—
½ in NPT Conduit	Key Dependent	120V	1.73 in	3.86 in	5.75 in	—	—	—	1NO/2NC	XCSE7333	**10D246**
½ in NPT Conduit	Key Dependent	24V AC/DC	1.3 in	4.33 in	3.68 in	2NC	XCSTE7313	**10D258**	—	—	—
½ in NPT Conduit	Key Dependent	120V AC	1.3 in	4.33 in	3.68 in	—	—	—	2NC	XCSTE7333	**10D259**
Actuating Key, Tubular Key Unlock											
½ in NPT Conduit	Key Dependent	—	1.73 in	2.05 in	4.47 in	1NO/2NC	XCSC703	**10D244**	—	—	—
Elbowed Lever Operated											
½ in NPT Conduit	2.85 in	—	1.18 in	1.18 in	7.06 in	1NO/1NC	XCSPL583	**10D254**	2NC	XCSPL783	**10D256**
Magnetically Actuated Safety Interlock Switch											
Compact Rectangular, 6.6 ft Cable			2.01 in	0.63 in	0.28 in	1NO/1NC	XCSDMC5902	**10D277**	2NC	XCSDMC7902	**10D279**
Compact Rectangular, 6.6 ft Cable			2.01 in	0.63 in	0.28 in	1NO/1NC	XCSDMC5912	**10D278**	2NC	XCSDMC7912	**10D280**
Cylindrical, 30mm, 6.6 ft Cable			1.52 in	—	—	1NO/1NC	XCSDMR5902	**10D285**	2NC	XCSDMR7902	**10D287**
Rectangular, 6.6 ft Cable			3.46 in	0.98 in	0.52 in	2NO/1NC	XCSDMP5002	**10D281**	1NO/2NC	XCSDMP7002	**10D283**
With LED, Cylindrical, 30mm, 6.6 ft Cable			1.52 in	—	—	1NO/1NC	XCSDMR5912	**10D286**	2NC	XCSDMR7912	**10D288**
With LED, Rectangular, 6.6 ft Cable			3.46 in	0.98 in	0.52 in	2NO/1NC	XCSDMP5012	**10D282**	1NO/2NC	XCSDMP7012	**10D284**
Metal Locking											
½ in NPT Conduit	—	24V AC/DC	8.07 in	1.71 in	2.01 in	1NO/2NC	XCSLF3737313	**14L749**	3NC	XCSLF3838313	**14L753**
½ in NPT Conduit	—	120V AC	8.07 in	1.71 in	2.01 in	—	—	—	1NO/2NC	XCSLF3737333	**14L750**
½ in NPT Conduit	—	24V AC/DC	8.07 in	1.71 in	2.01 in	2NC	XCSLF2727313	**14L743**	2NO/1NC	XCSLF3535313	**14L745**
½ in NPT Conduit	—	120V AC	8.07 in	1.71 in	2.01 in	2NC	XCSLF2727333	**14L744**	2NO/1NC	XCSLF3535333	**14L746**
Metal Locking with Power											
½ in NPT Conduit	—	120V AC	8.07 in	1.71 in	2.01 in	2NO/1NC	XCSLF3535533	**14L748**	1NO/2NC	XCSLF3737533	**14L752**
½ in NPT Conduit	—	24V AC/DC	8.07 in	1.71 in	2.01 in	2NO/1NC	XCSLF3535513	**14L747**	1NO/2NC	XCSLF3737513	**14L751**
Plastic Locking											
½ in NPT Conduit	—	24V AC/DC	8.07 in	1.71 in	2.01 in	2NC	XCSLE2727313	**14L755**	—	—	—
½ in NPT Conduit	—	120V AC	8.07 in	1.71 in	2.01 in	2NC	XCSLE2727333	**14L756**	—	—	—
Plastic Locking with Power											
½ in NPT Conduit	—	24V AC/DC	8.07 in	1.71 in	2.01 in	1NO/1NC	XCSLE2525513	**14L754**	—	—	—
Rotary Shaft											
½ in NPT Conduit	1.18 in	—	2.36 in	1.18 in	4.61 in	1NO/1NC	XCSPR553	**10D257**	—	—	—
Straight Lever Operated											
½ in NPT Conduit	2.95 in	—	1.18 in	1.18 in	7.06 in	1NO/1NC	XCSPL553	**10D253**	—	—	—
½ in NPT Conduit	2.85 in	—	1.18 in	1.18 in	7.06 in	2NC	XCSPL753	**10D255**	—	—	—

Honeywell

MICRO SWITCH™ Safety Interlocked Switches

- 10A
- NEMA 12,13
- Silver contacts

Description	Mfr. Model	Item No.	
Safety Interlock Switches, ½ in NPT			
Front and Top Open, 90° Key, 1NC/1NO	GKBA1L7	**11T849**	*
Front and Top Open, 90° Key, 1NC/1NO	GKBA3L7	**11T854**	
Front and Top Open, 90° Key, 2NC/2NO	GKBA14L7	**11T846**	
Front and Top Open, 90° Key, 4NC	GKBA10L7	**11T844**	
Front and Top Open, Strt. Key, 2NC/2NO	GKBA14L6	**11T845**	
Front and Top Open, Strt. Key, 3NC/1NO	GKBA16L6	**11T847**	
Multi-entry Key Operated (Strt., 90°, or Spring Key), 2NC/1NO	GKNA21	**11T872**	
Multi-entry Key Operated (Strt., 90°, or Spring Key), 3NC	GKNA30	**11T873**	
Rotating Head, Front and Top Open, 90° or Strt. Key, 1NC/1NO	GKEA01L	**11T869**	*
Rotating Head, Front and Top Open, 90° or Strt. Key, 1NC/1NO	GKEA03L	**11T870**	
Rotating Head, Front and Top Open, 90° or Strt. Key, 2NC	GKEA06L	**11T871**	
Safety Interlock Switches, Prewired			
Strt. or 90° Key, Bottom Exit 2m Cable, 1NC/1NO	GKMB23	**11T909**	
Strt. or 90° Key, Bottom Exit 3m Cable, 1NC/1NO	GKMB33	**11T910**	

Item	Mfr. Model	Item No.
Accessories For GKE and GKM Series		
Straight Actuating Key	GKZ51M	**11X201**
Right Angle Actuating Key	GKZ52M	**11X202**
Accessories For GKN Series		
Right Angle Actuating Key	GKZ42	**11T875**

** Snap-action contacts.*

11T844

11T872

11T870

11X202

EATON

Safety Interlock Switches

- NEMA 1, 12, and 13
- Contact rating: 6A at 24V, 4A at 400V
- Metal contact material
- DC rating 300mA at 24V
- IP65

Movement	Description/ Special Features	Solenoid Voltage	Contact Form	Actuator Length	H	W	D	Mfr. Model	Item No.
Lateral	Miniature Din	—	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-ZB	**45MZ38**
Lateral	Locking by Solenoid, Power to Unlock	120V AC	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-120AFT-ZBZ-X	**45MZ39**
Lateral	Locking by Solenoid, Power to Unlock	240V AC	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-230AFT-ZBZ-X	**45MZ41**
Lateral	Locking by Solenoid, Power to Unlock	24V DC	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-24DFT-ZBZ-X	**45MZ42**
Lateral	Locking by Solenoid, Power to Lock	120V AC	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-120AMT-ZBZ-X	**45MZ40**
Lateral	Locking by Solenoid, Power to Lock	24V DC	1NO/1NC	1.42 in	5.37 in	2.36 in	1.21 in	LS-S11-24DMT-ZBZ-X	**45MZ43**
Lateral	Din Door Switch	—	1NO/1NC	1.42 in	3.78 in	1.18 in	1.31 in	LS4-S11-1-I-ZB	**45MZ48**
Rotation	Flap Door Switch	—	2NC	2.83 in	3.15 in	1.18 in	1.26 in	LSR-S02-1-I-TKG	**45MZ44**
Rotation	Flap Door Switch	—	1NO/1NC	2.83 in	3.15 in	1.18 in	1.26 in	LSR-S11-1-I-TKG	**45MZ46**
Rotation	Hinge Operated Switch	—	2NC	2.32 in	3.15 in	1.18 in	1.26 in	LSR-S02-1-I-TS	**45MZ45**
Rotation	Hinge Operated Switch	—	1NO/1NC	2.32 in	3.15 in	1.18 in	1.26 in	LSR-S11-1-I-TS	**45MZ47**

45MZ38

45MZ44

Sti SAFETY, TECHNOLOGY & INNOVATION
OMRON

Force-Guided Relays and Sockets

Compact relays with force-guided contacts help avoid hazardous machine status when used as part of an interlock circuit. Designed for use where it is necessary to monitor relay contacts for safety purposes and to support the CE marking of machinery. Reinforced insulation between inputs and outputs. Terminal arrangement simplifies PCB pattern. Conform to EN standards (EN50205 Class A, approved by VDE). UL Recognized and CSA Certified.

Contact Config.	Contact Load Rating	For Use With	Input Voltage	Response Time	H	W	Mfr. Model	Item No.
Force Guided Relays								
2NO/2NC	6.0A	2LCL6 or 2LCL7 Socket	24VDC	10 msec	0.94"	1.57"	G7SA-2A2B DC24	**2LCL1**
3NO/1NC	6.0A	2LCL6 or 2LCL7 Socket	24VDC	10 msec	0.94"	1.57"	G7SA-3A1B DC24	**2LCL2**

No. of Pins	Mounting	Terminals	Voltage	Contact Rating	L	W	D	Mfr. Model	Item No.
Force Guided Relay Sockets									
10	DIN Rail	Screw	24VDC	6A	3.54"	0.88"	2.38"	P7SA-10F	**2LCL6**
14	DIN Rail	Screw	24VDC	6A	3.54"	1.18"	2.38"	P7SA-10F-ND DC24	**2LCL8**
Force Guided, LED Relay Sockets									
10	DIN Rail	Screw	24VDC	6A	3.54"	0.88"	2.38"	P7SA-10F-ND DC24	**2LCL7**
14	DIN Rail	Screw	24VDC	6A	3.54"	1.18"	2.38"	P7SA-14F-ND DC24	**2LCL9**

2LCL1

2LCL6

52RR12

61UX59

Light Curtains

These Safety Light Curtains consist of an emitter and receiver pair that create a multi-beam barrier of infrared light in front of, or around, unsafe work areas. If any of the beams are blocked by personnel, the light curtain sends a signal to the machine to place it in a safe state. They meet the highest achievable safety level requirements: Type 4, SIL 3, and PLe. Available in both finger (14 mm) and hand (30 mm) resolutions and are simple to wire and install.

Protected Height	Max. Sensing Distance	Beam Spacing	Input Voltage	Mfr. Model	Item No.
ifm					
2A Inductive @ 24V DC, 6A @ 230V AC, 6A Resistive @ 24V DC Safety Output Ratings					
6.3 in	19.7 ft	0.551 in	24V DC	OY001S	**52RR12**
	39.4 ft	1.181 in	24V DC	OY041S	**52RR22**
12.2 in	19.7 ft	0.551 in	24V DC	OY002S	**52RR13**
	39.4 ft	1.181 in	24V DC	OY042S	**52RR23**
18.11 in	19.7 ft	0.551 in	24V DC	OY003S	**52RR14**
	39.4 ft	1.181 in	24V DC	OY043S	**52RR24**
24.02 in	19.7 ft	0.551 in	24V DC	OY004S	**52RR15**
	39.4 ft	1.181 in	24V DC	OY044S	**52RR25**
29.92 in	19.7 ft	0.551 in	24V DC	OY005S	**52RR16**
	39.4 ft	1.181 in	24V DC	OY045S	**52RR26**
35.83 in	19.7 ft	0.551 in	24V DC	OY006S	**52RR17**
	39.4 ft	1.181 in	24V DC	OY046S	**52RR27**
41.73 in	19.7 ft	0.551 in	24V DC	OY007S	**52RR18**
	39.4 ft	1.181 in	24V DC	OY047S	**52RR28**
47.64 in	19.7 ft	0.551 in	24V DC	OY008S	**52RR19**
	39.4 ft	1.181 in	24V DC	OY048S	**52RR29**
53.54 in	19.7 ft	0.551 in	24V DC	OY009S	**52RR20**
	39.4 ft	1.181 in	24V DC	OY049S	**52RR30**
59.45 in	19.7 ft	0.551 in	24V DC	OY010S	**52RR21**
	39.4 ft	1.181 in	24V DC	OY050S	**52RR31**
Omron					
300 mA @ 24V DC Safety Output Ratings					
6.3 in	32.8 ft	0.394 in	24V DC	F3SG4RA016014	**55JA64**
12.6 in	32.8 ft	0.394 in	24V DC	F3SG4RA032014	**55JA65**
13.8 in	65.6 ft	0.787 in	24V DC	F3SG4RA035030	**55JA66**
15.7 in	32.8 ft	0.394 in	24V DC	F3SG4RA040014	**55JA67**
16.9 in	65.6 ft	0.787 in	24V DC	F3SG4RA043030	**55JA68**
17.32 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA0440-25-F	**61UX59**
18.9 in	32.8 ft	0.394 in	24V DC	F3SG4RA048014	**55JA69**
22 in	32.8 ft	0.394 in	24V DC	F3SG4RA056014	**55JA70**
23.2 in	65.6 ft	0.787 in	24V DC	F3SG4RA059030	**55JA71**
23.62 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA0600-25-F	**61UX60**
25.2 in	32.8 ft	0.394 in	24V DC	F3SG4RA064014	**55JA72**
26.4 in	65.6 ft	0.787 in	24V DC	F3SG4RA067030	**55JA73**
28.3 in	32.8 ft	0.394 in	24V DC	F3SG4RA072014	**55JA74**
29.5 in	65.6 ft	0.787 in	24V DC	F3SG4RA075030	**55JA75**
29.92 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA0760-25-F	**61UX61**
32.7 in	65.6 ft	0.787 in	24V DC	F3SG4RA083030	**55JA76**
35.51 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA0920-25-F	**61UX62**
35.8 in	65.6 ft	0.787 in	24V DC	F3SG4RA091030	**55JA77**
39 in	65.6 ft	0.787 in	24V DC	F3SG4RA099030	**55JA78**
40.9 in	32.8 ft	0.394 in	24V DC	F3SG4RA104014	**55JA79**
40.94 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA1040-25	**61UX63**
47.2 in	32.8 ft	0.394 in	24V DC	F3SG4RA120014	**55JA80**
47.24 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA1200-25	**61UX64**
48.4 in	65.6 ft	0.787 in	24V DC	F3SG4RA123030	**55JA81**
54.7 in	65.6 ft	0.787 in	24V DC	F3SG4RA139030	**55JA82**
56.69 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA1440-25	**61UX65**
57.9 in	65.6 ft	0.787 in	24V DC	F3SG4RA147030	**55JA83**
59.84 in	65.6 ft	0.787 in	24V DC	F3SG-4SRA1520-25	**61UX66**
61 in	65.6 ft	0.787 in	24V DC	F3SG4RA155030	**55JA84**
73.6 in	65.6 ft	0.787 in	24V DC	F3SG4RA187030	**55JA85**

5FZE7

Rotating Mirror Beacons

- 20 flashes per minute
- 100,000-hr. lamp life
- Dome lens design
- Temp. range: 14° to 122ºF
- IP23 ABS housing with CR polychloroprene rubber gaskets

Provide long-distance, high visibility for machines and industrial vehicles. LED lamps for long life. Prewired for easy installation; screw mount. UL Listed, CSA and CE Certified.

Description	Item No.
Accessories	
Mounting Tube and Base For 106mm Rotating Mirror Beacons	**5FZG3**
L-Shape Mounting Bracket For 84mm, 106mm Rotating Mirror Beacons	**5FZG4**
Warning Light Rubber Base, For Use With Mfr. No. XVR08	**30N621**
Warning Light Rubber Base, For Use With Mfr. No. XVR10	**30N622**

Power Source	Mfr. Model	RED Item No.	ORANGE Item No.	GREEN Item No.	BLUE Item No.
84 mm Diameter					
12V AC/DC	XVR08J	**5FZE7**	—	—	—
24V AC/DC	XVR08B	**5FZF1**	**5FZF2**	**5FZF3**	**5FZF4**
106 mm Diameter					
24V AC/DC	XVR10B	**5FZF9**	**5FZG0**	—	**5FZG2**
120 mm Diameter					
24V AC/DC	XVR12B	**30N596**	**30N598**	**30N594**	**30N601**
120 mm Diameter, Includes Buzzer					
24V AC/DC	XVR12B S	**30N597**	**30N599**	—	**30N602**
130 mm Diameter					
12V DC	XVR13J	—	**30N618**	—	—
24V AC/DC	XVR13B	**30N611**	**30N613**	—	—
130 mm Diameter, Includes Prewired Cable					
24V AC/DC	XVR13B L	**30N612**	**30N614**	—	—
120V AC	XVR13G L	**30N615**	**30N616**	—	—
230V AC	XVR13M L	**30N619**	**30N620**	—	—

50mm and 56mm Dia. Tower and 86mm Dia. Warning Lights

Dayton

- IP65 polycarbonate housing
- Lead wire type

56mm dia. tower lights feature steady and flashing stackable LED modular components. Available pole with surface, or wall mounting bracket, or direct mounting. Optional modular buzzer kits. 86mm dia. warning lights feature high-intensity LED lights, selectable steady/flashing/rotating modes. Available pole mounting or wall-mount bracket. UL Listed and CSA Certified.

26ZT21

26ZT50

Voltage	Watts	Color	Item No.
Tower Light Module Flashing; 50 mm Diameter			
24V AC/DC	1.5 W	Blue	30XT70
120V AC	0.8 W	Red	30XT72

Mounting	Voltage	RED Item No.	RED, GREEN Item No.	RED, YELLOW, GREEN Item No.	RED, YELLOW, GREEN, BLUE Item No.	RED, YELLOW, GREEN, BLUE, CLEAR Item No.	RED, YELLOW Item No.
Tower Light LED Assembly, Steady, Flashing, 20 in Cord Length, 56mm Diameter							
Support Tube	24V AC/DC	**26ZT20**	**26ZT21**	**26ZT23**	**26ZT24**	**26ZT25**	—
Support Tube	90 to 240V AC	**26ZT26**	**26ZT27**	**26ZT29**	**26ZT30**	—	—
Direct	24V AC/DC	**26ZT33**	**26ZT34**	**26ZT36**	**26ZT37**	—	—
Direct	90 to 240V AC	**26ZT39**	**26ZT40**	**26ZT42**	**26ZT43**	**26ZT44**	**26ZT41**

Power Source	RED Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.	CLEAR Item No.
Warning Light, Stud Mounting, 86mm Diameter					
12-24	**26ZT50**	**26ZT51**	**26ZT52**	—	—
90-240	**26ZT55**	—	—	**26ZT58**	**26ZT59**
Warning Light, Includes Buzzer, Stud Mounting, 86mm Diameter					
90-240	**26ZT65**	—	—	—	**26ZT69**

Description	For Use With	Item No.
Tower Light Accessories		
Tower Light Sounder Tier, 100 dB	26ZT20-26ZT24, 26ZT26-30, 26ZT33-37, 26ZT39-43	**26ZT19**
Surface Mount, luminum Base, luminum, 10 ¼ in H	26ZT20-26ZT31	**26ZT17**
Wall Mount, Steel Base, luminum, 9 ½ in H	26ZT20-26ZT31	**26ZT16**
Wall Mount Bracket, Steel, 3 in H	26ZT33-26ZT44	**26ZT32**
Terminal Holder, White, Nylon, 2 13/64 in H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT49**
Terminal Holder, Black, Nylon, 2 13/64 in H	30XT46, 30XT47,30XT53 to 30XT76, 30XT51, 30XT52	**30XT50**
Base Unit, Black, Nylon, 4 13/32 in H	30XT48, 30XT49, 30XT50	**30XT51**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT46**
Tower Light Sounder Tier, 75dB to 85dB	30XT48 to 30XT50 and 30XT51, 30XT52	**30XT47**

Modular Tower Lights, 40mm and 70mm Diameter

EATON

- IP66 polycarbonate housing
- For outdoor or indoor use

Indicate machine states with high-performance LEDs that are designed to be used in adverse conditions. UL Listed, CSA and CE Certified.

Description	Voltage	Mfr. Model	RED Item No.	AMBER Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.	WHITE Item No.
SL4 Series, 40 mm Diameter								
Flashing Light	24V AC/DC	SL4-BL24	**20PZ10**	**20PZ07**	**20PZ12**	**20PZ09**	**20PZ08**	**20PZ11**
	120V AC	SL4-BL120	**20PZ04**	**20PZ01**	**20PZ06**	**20PZ03**	**20PZ02**	**20PZ05**
Steady Light	24V AC/DC	SL4-L24	**20PZ46**	**20PZ43**	**20PZ48**	**20PZ45**	**20PZ44**	**20PZ47**
	120V AC	SL4-L120	**20PZ39**	**20PZ36**	**20PZ41**	**20PZ38**	**20PZ37**	**20PZ40**
Strobe Light	24V AC/DC	SL4-FL24	—	**20PZ19**	**20PZ29**	**20PZ23**	**20PZ21**	**20PZ27**
	120V AC	SL4-FL120	**20PZ16**	**20PZ13**	**20PZ18**	**20PZ15**	**20PZ14**	**20PZ17**
Strobe Light, Multiple Sequences	24V AC/DC	SL4-FL24-M	**20PZ26**	**20PZ20**	**20PZ30**	**20PZ24**	**20PZ22**	**20PZ28**
SL7 Series, 70 mm Diameter								
Flashing Light	24V AC/DC	SL7-BL24	**20PZ81**	**20PZ78**	**20PZ83**	**20PZ80**	**20PZ79**	**20PZ82**
	120V AC	SL7-BL120	**20PZ75**	**20PZ72**	**20PZ77**	**20PZ74**	**20PZ73**	**20PZ76**
Steady Light	24V AC/DC	SL7-L24	**20RA23**	**20RA20**	**20RA25**	**20RA22**	**20RA21**	**20RA24**
	120V AC	SL7-L120	**20RA16**	**20RA13**	**20RA18**	**20RA15**	**20RA14**	**20RA17**
Strobe Light	24V AC/DC	SL7-FL24	**20RA05**	**20RA02**	**20RA07**	**20RA04**	**20RA03**	**20RA06**
	120V AC	SL7-FL120	—	**20PZ95**	**20RA01**	**20PZ97**	**20PZ96**	**20PZ99**
	120V AC	SL7-FL120	**20PZ98**	—	—	—	—	—

20PZ72

20PY94

Dia.	Voltage	Mfr. Model	RED, GREEN Item No.	RED, YELLOW, GREEN Item No.
Tower Light Assemblies				
40 mm	24V AC/DC	SL4-100-L-24LED	**20PY94**	—
40 mm	24V AC/DC	SL4-100-L-RAG-24LED	—	**20PY95**
70 mm	24V AC/DC	SL7-100-L-24LED	**20PZ63**	—
70 mm	24V AC/DC	SL7-100-L-RAG-24LED	—	**20PZ64**

Description	Mfr. Model	Item No.
Audible Sounders		
For Use With SL4 Tower Lights		
120V AC	SL4-AP120	**20PY96**
24V AC/DC	SL4-AP24	**20PY98**
For Use With SL7 Tower Lights		
120V AC	SL7-AP120	**20PZ65**
120V AC, External Actuation	SL7-AP120-E	**20PZ66**
120V AC, Multi-Tone	SL7-AP120-M	**20PZ67**
24V AC/DC	SL7-AP24	**20PZ68**
24V AC/DC, External Actuation	SL7-AP24-E	**20PZ69**
24V AC/DC, Multi-Tone	SL7-AP24-M	**20PZ70**
Mounting Bases		
For Use With SL4 Tower Lights		
Rapid Mount with Aluminum Pole, Base Cover, 6 3/16 in	SL4-FMS-100	**20PZ31**
Rapid Mount with Aluminum Pole, 12 3/32 in	SL4-FMS-250	**20PZ32**
Rapid Mount with Aluminum Pole, 18 in	SL4-FMS-400	**20PZ33**
100mm Aluminum Tube Base Unit, Plastic Belt	SL4-PIB-100	**20PZ49**
250mm Aluminum Tube Base Unit, Plastic Belt	SL4-PIB-250	**20PZ50**
400mm Aluminum Tube Base Unit Plastic Belt	SL4-PIB-400	**20PZ51**
2-Side Base, Ext Fix Holes, Vertical Mount	SL4-PIB-D	**20PZ52**
1-Side Base, Bracket, Vertical Mount	SL4-PIB-FW	**20PZ53**
Aluminum Tube Base Unit, Fixing Holes	SL4-PIB-IMH	**20PZ54**
Aluminum Tube Base Unit, Fixing Screws	SL4-PIB-IMS	**20PZ55**
100mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-100	**20PZ56**
250mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-250	**20PZ57**
400mm Aluminum Tube Base Unit, Banjo Belt	SL4-PIB-T-400	**20PZ58**
Aluminum Tube Base Unit, Fixing Holes Push-In	SL4-PII-EMH	**20PZ59**
For Use With SL4, SL7 Tower Lights		
Plastic Bracket, Vertical Mount	SL7/4-FW	**20PZ61**
For Use With SL7 Tower Lights		
Metal Bracket, Vertical Mount	SL7/4-FW-T	**20PZ62**
100mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-100	**20PZ84**
250mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-250	**20PZ85**
400mm Aluminum Tube Base Unit, Plastic Feet	SL7-CB-400	**20PZ86**
2-Side Base, Ext Fix Holes, Vertical Mount	SL7-CB-D-GR1	**20PZ87**
Base, Ext Fix Holes, Horizontal Mount	SL7-CB-EMH	**20PZ88**
1-Side Base, Bracket, Vertical Mount	SL7-CB-FW	**20PZ89**
Base, Int Fix Hole, Horizontal Mount	SL7-CB-IMH	**20PZ90**
Base, Built In Fix Screws, Horizontal Mount	SL7-CB-IMS	**20PZ91**
100mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-100	**20PZ92**
250mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-250	**20PZ93**
400mm Aluminum Tube Base Unit, Banjo Belt	SL7-CB-T-400	**20PZ94**
100mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-100	**20RA08**
250mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-250	**20RA09**
400mm Aluminum Tube Base Unit, Rapid Mount	SL7-FMS-400	**20RA10**
Base Adapter For SW-DT	SL7-SWD	**20RA26**
Accessories		
For Use With SL4, SL7 Tower Lights		
Lamp Mounting and Removal Tool	SL7/4-BET	**20PZ60**

5FTJ6

5FTN2

Tower Lights, 40, 60, and 100mm Diameter

Schneider Electric

- IP54 polybutylene housing
- For outdoor or indoor use

Towers have up to 5 super-bright LEDs for optimum luminosity. Assembled and prewired. For long-distance indication of the operating states or sequences of a machine. 1 9/16" lights are primarily used in the food-processing and medical sectors. 2 3/8" lights are used in semiconductor factories or on conveyor belts. UL Listed, CSA and CE Certified.

Mode	Voltage	Mfr. Model	RED Item No.	RED, ORANGE Item No.	RED, ORANGE, GREEN Item No.	RED, ORANGE, GREEN, BLUE Item No.	RED, ORANGE, GREEN, BLUE, CLEAR Item No.
40mm Diameter, Base Mounting							
Steady	24V AC/DC	XVC4B	**5FTK6**	**5FTK7**	**5FTK8**	**5FTK9**	**5FTL0**
40mm Diameter, Support Tube Mounting							
Steady	24V AC/DC	XVC4B	**5FTJ6**	**5FTJ7**	**5FTJ8**	**5FTJ9**	**5FTK0**
Steady	100 to 240V AC	XVC4M	—	**34D589**	**34D593**	—	—
Steady, Flashing with Buzzer	24V AC/DC	XVC4B	**5FTK1**	**5FTK2**	**5FTK3**	**5FTK4**	**5FTK5**
Steady, Flashing with Buzzer	100 to 240V AC	XVC4M	**34D594**	—	**34D604**	—	—
60mm Diameter, Base Mounting							
Steady	24V AC/DC	XVC6B	—	—	**5FTN5**	—	**5FTN7**
Steady	100 to 240V AC	XVC6M	**34D585**	—	**34D592**	—	—
Steady, Flashing with Buzzer	24V AC/DC	XVC6B	**5FTN8**	**5FTN9**	**5FTP0**	**5FTP1**	**5FTP2**
Steady, Flashing with Buzzer	100 to 240V AC	XVC6M	**34D590**	—	**34D601**	—	**34D613**
60mm Diameter, Support Tube Mounting							
Steady	24V AC/DC	XVC6B	—	—	**5FTL5**	**5FTL6**	**5FTL7**
Steady	100 to 240V AC	XVC6M	**34D588**	—	**34D597**	**34D603**	—
Steady, Flashing with Buzzer	24V AC/DC	XVC6B	—	**5FTL9**	**5FTN0**	**5FTN1**	**5FTN2**
Steady, Flashing with Buzzer	100 to 240V AC	XVC6M	**34D595**	—	**34D605**	**34D610**	—
100mm Diameter, Base Mounting							
Steady, Flashing	100 to 240V AC	XVC1M	—	—	**34D619**	—	**34D623**

Description	Item No.
Accessories	
Die-Cast Mounting Base For Pole-Mount Style 40mm Tower Light	**5FTL1**
Die-Cast Mounting Base For Pole-Mount Style 60mm Tower Light	**5FTP3**
Stamped Metal Plate For Base-Mount Style 60mm Tower Light	**5FTP4**

70mm Nonstackable Illuminated Beacon w/Base 6HM55

70mm Stackable Lens Unit 6HM33

60mm Audible Sounder 30EF30

Side Entry for Cable Only 6HM29

Rear Conduit Adapter 6HM23

Illuminated Beacons, 60 and 70mm Diameter

Schneider Electric LumaPro

Highly visible 360° beacons provide instant communication within work groups and across factory floors, enabling factory personnel to monitor and control production quality in large automated areas. NEMA 1, 4X, 12, and IP65. For indoor use only. UL Listed, CE and CSA Certified.

Description	Voltage	Mfr. Model	RED Item No.	AMBER/ ORANGE Item No.	YELLOW Item No.	GREEN Item No.	BLUE Item No.	CLEAR/WHITE Item No.
60mm Stackable Lens Units without Base or Cover								
Steady w/Lamp	24V AC/DC	XVUC2	**30EF24**	**30EF25**	—	**30EF23**	**30EF26**	**30EF27**
Flashing, Steady, Blinking, Rotating, w/Multi-Color Lamp	24V AC/DC	XVUC29	**30EF28**	**30EF28**	**30EF28**	**30EF28**	**30EF28**	**30EF28**
70mm Nonstackable Illuminated Beacons with Base								
Strobe w/Lamp	24V AC/DC	XVBL8B	**6KX89**	**5GAD9**	**5GAE2**	—	**5GAE0**	**5GAE1**
Strobe w/Lamp	120V AC	XVBL8G	**6KX95**	**6KX62**	**6KX98**	—	**6KX96**	**6KX97**
Steady w/o Lamp	250V AC/DC	XVBL3	**6HM55**	**6HM56**	**6HM59**	**6HM54**	**6HM57**	**6HM58**
Flashing w/o Lamp	24V AC/24 to 48V DC	XVBL4B	**6KX77**	**6KX78**	**6KX81**	**6KX76**	**6KX79**	—
Flashing w/o Lamp	48 to 230V AC	XVBL4M	—	—	**6KX87**	—	—	—
70mm Stackable Lens Units without Base or Cover								
Steady w/Lamp	240V AC	XVBC3	**6HM32**	**6HM33**	**6HM36**	**6HM31**	**6HM34**	**6HM35**
Flashing w/o Lamp	48V AC/DC	XVBC4B	**6HM38**	—	**6HM42**	**6HM37**	**6HM40**	—
Flashing w/o Lamp	240V AC	XVBC4M	**6HM44**	**6HM45**	—	—	**6HM46**	—
LED Lamps for 70mm Beacons								
Steady	24V AC/24V DC	DL1BDB	**6HJ97**	—	**6HJ99**	—	—	—
Steady	120V AC	DL1BDG	**6HK03**	—	**6HK05**	**6HK02**	**6HK04**	**6HK01**
Flashing	24V AC/24V DC	DL1BKB	—	—	—	—	—	**3XB56**

Description	Mfr. Model	Item No.
Audible Sounders		
60 mm, 24V AC/DC, 85 dB, Black	XVUC9S	**30EF29**
60 mm, 24V AC/DC, 85 dB, Silver	XVUC9SQ	**30EF30**
70mm, 12 to 48VAC/DC, 90 dB Nonadjustable	XVBC9B	**6HM52**
70mm, 120 to 230VAC, 70-90 dB Adjustable	XVBC9M	**6HM53**
60mm Accessories		
Body Extender, Black	XVUC020	**30EF16**
Tower Body, Black, 3 19/64 in H, 24VAC/DC	XVUC21B	**30EF18**
Tower Body, Silver, 3 19/64 in H, 24VAC/DC	XVUC21BQ	**30EF19**
Tower Body, Black, 5 57/64 in H, 100-240VAC, NPN	XVUC21M	**30EF20**
Tower Body, Black, 5 57/64 in H, 100-240VAC, PNP	XVUC21MP	**30EF21**
Mounting Plate, Black	XVUZ01	**30EF31**
Mounting Plate, Silver	XVUZ01Q	**30EF32**
Fixing Plate, Black	XVUZ02	**30EF33**

Description	Mfr. Model	Item No.
Fixing Plate, Silver	XVUZ02Q	**30EF34**
Adjustment Pole, Black	XVUZ05	**30EF35**
70mm Accessories		
Side Entry for Cable Only	XVBC14	**6HM29**
Rear Conduit Adapter	XVBC00	**6HM23**
Stackable Base and Cover for Component Lenses	XVBC21	**6HM30**
Beacon Support Base, 2¾"H, Black Aluminum	XVBZ02	**1CNP2**

Watts	12V ACVAC/DC Item No.	24V ACVAC/DC Item No.	48V ACVAC/DC Item No.	120V ACVAC/DC Item No.	230V ACVAC/DC Item No.
Incandescent Lamps for 50, 60, or 70mm, T6 Lamp Shape, LumaPro Brand					
5W	—	**4VCW7**	—	—	—
7W	**4VCX1**	**4VCW6**	**4VCW8**	**4VCW9**	**4VCX2**
10W	**4VCX6**	**4VCX3**	**4VCX4**	**4VCX5**	**4VCX7**

5JV43

20RD69

4A339

1DU38

4A334

2A183

Telemecanique Sensors   OMRON INDUSTRIAL AUTOMATION

Photoelectric and Fiber Optic Sensors

Width	Height	Depth	Power Requirement	Foot-notes	Photoelectric Operating Mode	Output Circuit Type	Max. Load Current	Brand	RETROREFLECTIVE Max. Sensing Distance	RETROREFLECTIVE Item No.	DIFFUSE Max. Sensing Distance	DIFFUSE Item No.	THROUGH BEAM SET Max. Sensing Distance	THROUGH BEAM SET Item No.
Cylindrical Photoelectric Sensors														
18 mm	18 mm	—	24 to 240V AC/DC	—	Light On	Solid State Relay, SPST	200 mA	Telemecanique	3.0 m	**5JV46**	—	—	20.0 m	**5JV44**
18 mm	45 mm	—	5 to 30V DC	4, 5	Selectable Light On/Dark On	NPN	100 mA	Omron	—	—	100 mm	**20RD60**	20.0 m	**20RD59**
18 mm	18 mm	—	24 to 240V AC/DC	—	Dark On	Solid State Relay, SPST	200 mA	Telemecanique	—	—	—	—	20.0 m	**5JV43**
18 mm	18 mm	—	24 to 240V AC/DC	4	Dark On	Solid State Relay, SPST	200 mA	Telemecanique	3.0 m	**5JV45**	—	—	—	—
18 mm	45 mm	—	5 to 30V DC	—	Selectable Light On/Dark On	PNP	100 mA	Omron	—	—	100 mm	**20RD65**	100 mm	**20RD63**
18 mm	45 mm	—	5 to 30V DC	—	Selectable Light On/Dark On	PNP	100 mA	Omron	—	—	100 mm	**20RD66**	100 mm	**20RD64**
18 mm	45 mm	—	10 to 30V DC	—	Selectable Light On/Dark On	NPN	100 mA	Omron	—	—	—	—	100 mm	**20RD69**
18 mm	45 mm	—	5 to 30V DC	—	Selectable Light On/Dark On	NPN	100 mA	Omron	—	—	100 mm	**20RD70**	—	—
Fiber Optic														
6-Ft. Fiber Optic Sensor Cable								Omron	—	—	—	**4A339**	—	**4A340**
Rectangular Photoelectric Sensors														
10 mm	30 mm	20 mm	12 to 24V DC	4	Selectable Light On/Dark On	NPN	100 mA	Omron	500 mm	**1DU39**	100 mm	**1DU40**	15 m	**1DU38**
10 mm	30 mm	20 mm	12 to 24V DC	4	Selectable Light On/Dark On	PNP	100 mA	Omron	100 mm	**1DU44**	200 mm	**1DU47**	15 m	**1DU45**
23 mm	20 mm	50 mm	10 to 30V DC	3,4	Selectable Light On/Dark On	NPN/PNP	100 mA	Omron	—	—	700 mm	**4A334**	30 m	**6C770**
23 mm	20 mm	57 mm	10 to 30V DC	3,4	Selectable Light On/Dark On	NPN/PNP	100 mA	Omron	—	—	700 mm	**6C769**	30 m	**6C771**
23 mm	20 mm	50 mm	10 to 30V DC	2,3,4	Selectable Light On/Dark On	NPN/PNP	100 mA	Omron	3 m	**4A335**	500 mm	**2UUK9**	—	—
89 mm	185 mm	64 mm	42 to 240V AC/24 to 240V DC	1,3,7,8,9	Selectable Light On/Dark On	DPDT	10 A	Omron	10 m	**2A183**	—	—	—	—

***Footnotes:** 1—Reflector included. 2—Polarized. 3—NEMA 4X. 4—Prewired with 6.5 ft. of cable. 5—NEMA 4. 6—On-delay, Off-delay, 1-shot 0.1-5 seconds. 7—Conduit connection. 8—Opaque objects only. 9—Sensitivity adjustment.*

Telemecanique Sensors

Osisense™ Photoelectric Sensors

32J334

4AJ36

- LED status indicator
- NEMA rated 4X
- Smaller, compact body saves machine space

Multimode sensor adapts to numerous sensing applications with the touch of a button. M12 and Mini-connector cables are sold separately at Grainger.com®. UL Listed; CSA and CE Certified.

Sensing Method	Circuit Type	Max. Sensing Distance	Power Requirement	Max. Load Current	Mfr. Model	CONNECTION TYPE Electrical Connection	Item No.	Electrical Connection	Item No.
Cylindrical, 18 mm Diameter									
Diffuse	NC, NPN	800 mm	12 to 24V DC	100 mA	XUB5ANBN	2m Cable	**32J331**	4-Pin M12 Male Connector	**32J339**
	NC, PNP	800 mm	12 to 24V DC	100 mA	XUB5APBN	2m Cable	**32J333**	4-Pin M12 Male Connector	**32J341**
	NPN	800 mm	12 to 24V DC	100 mA	XUB5ANAN	2m Cable	**32J330**	4-Pin M12 Male Connector	**32J338**
	PNP	800 mm	12 to 24V DC	100 mA	XUB5APAN	2m Cable	**32J332**	4-Pin M12 Male Connector	**32J340**
Retroreflective	NC, NPN	3.0 m	12 to 24V DC	100 mA	XUB9ANBN	2m Cable	**32J327**	4-Pin M12 Male Connector	**32J335**
	NC, PNP	3.0 m	12 to 24V DC	100 mA	XUB9APBN	—	—	4-Pin M12 Male Connector	**32J337**
	NPN	3.0 m	12 to 24V DC	100 mA	XUB9ANAN	2m Cable	**32J326**	4-Pin M12 Male Connector	**32J334**
	PNP	3.0 m	12 to 24V DC	100 mA	XUB9APAN	2m Cable	**32J328**	4-Pin M12 Male Connector	**32J336**
Rectangular									
Multimode	NO/NC, NPN/PNP	60 m	12 to 24V DC	100 mA	XUX0AKSA	Screw Terminal	**4AJ29**	4-Pin M12 Male Connector	**4AJ36**
	NO/NC, Relay	60 m	24 to 240V AC/DC	3,000 mA	XUX0ARCT	Screw Terminal	**4AJ46**	—	—
Through Beam Transmitter	Transmitter	60 m	12 to 24V DC	—	XUX0AKSAT	Screw Terminal	**4AJ32**	4-Pin M12 Male Connector	**4AJ41**
	Transmitter	60 m	24 to 240V AC/DC	3,000 mA	XUX0ARCTT	Screw Terminal	**4AJ48**	—	—

Comet Thru-Beam Receiver with Cable 2XCA8

SM Series Retro-Reflective, Background Rejection with Cable 2XDL4

Enhanced 50 Series Polarized Retro-Reflective with 4-Pin Micro 2XCK1

EATON

Photoelectric Sensors

COMET SERIES

- IP69K rating
- Solid-state AC/DC models rated for 300mA; DC-only models rated for 250mA NPN and 100mA PNP
- Light/dark operation
- Temp. range: -4° to 158°F thru-beam source 2UUT5, 2UUT6, 2XCA1, and 2XCA2, and -13° to 151°F for 2XCA3 to 2XCA7
- Temp. range: -40° to 158°F all others

Industry-standard 18mm threaded flat tubular body can be mounted like a tubular sensor or against any flat surface. Visible sensing beam simplifies setup and alignment. Solid polyurethane housing is highly resistant to shock and vibration. Adaptable modulation circuit protects against crosstalk. Background rejection models reliably detect targets regardless of color, reflectance, contrast, and surface shape. UL and C-UL Listed and CE Certified, except UL 508 Certified thru-beam source 2XCA3 to 2XCA7 and polarized retroreflective 2XCG3 are CSA and CE Certified.

ENHANCED 50 SERIES

- Light/dark operation
- Temp. range: -13° to 151°F

Fully potted construction for use in areas subject to washdown, high shock, or high vibration. High optical performance. Adjustable gain pots allow precise adjustment. CSA, CE, and UL 508 Certified.

SM SERIES

- Visible positioning aid
- Threaded barrel
- 18mm lens snout
- Miniature size fits small spaces
- Temp. range: -13° to 151°F

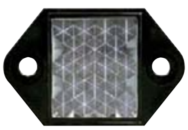
Visible sensing beam simplifies setup and alignment. TargetLock™ ensures reliable operation. LEDs indicate output/power/TargetLock.

Description	Item No.
Accessories	
For Use With Enhanced 50, 30mm Photoelectric Sensors	
Nickel-Plated Short Right Angle Mounting Bracket	**2XCK4**
Nickel-Plated Tall Right Angle Mounting Bracket	**2XCK5**
Plastic Ball Swivel Mounting Bracket	**2XCK6**
For Use With 18mm Photoelectric Sensors	
Plastic Ball Swivel Mounting Bracket	**2XDG3**
Aluminum Right Angle Mounting Bracket	**2XCK7**
Aluminum Flat Mounting Bracket	**2XCK8**

Description	Power Requirement	Circuit Type	Max. Load Current	Max. Sensing Distance	Dia.	2-METER CABLE Item No.	4-PIN MICRO Item No.
Cylindrical Photoelectric Sensor							
Diffuse							
Comet	10 to 30V DC	NPN/PNP	250 mA	610 mm	18 mm	**2XCD1**	**2XCD3**
Comet	10 to 30V DC	NPN/PNP	250 mA	100 mm	18 mm	**2XCD9**	**2XCE2**
Comet	10 to 30V DC	NPN/PNP	250 mA	50 mm	18 mm	**2XCE4**	**2XCE6**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	100 mm	18 mm	**2XCD8**	**2XCE1**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	50 mm	18 mm	**2XCE3**	**2XCE5**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	610 mm	18 mm	**2XCC9**	**2XCD2**
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	610 mm	18 mm	**2XCD5**	**2XCD7**
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	50 mm	18 mm	**2XCE8**	**2XCF1**
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	100 mm	18 mm	**2XCF5**	**2XCF3**
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	50 mm	18 mm	**2XCE7**	**2XCE9**
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	100 mm	18 mm	**2XCF4**	**2XCF2**
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	610 mm	18 mm	**2XCD4**	**2XCD6**
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	50 mm	18 mm	**2XDL8**	**2XDL9**
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	100 mm	18 mm	**2XDN7**	**2XDN8**
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	200 mm	18 mm	**2XDR5**	**2XDR6**
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	50 mm	18 mm	**2XDL4**	**2XDL5**
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	100 mm	18 mm	**2XDN3**	**2XDN4**
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	200 mm	18 mm	**2XDR1**	**2XDR2**
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	50 mm	18 mm	**2XDN1**	**2XDN2**
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	100 mm	18 mm	**2XDN9**	**2XDP1**
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	200 mm	18 mm	**2XDR7**	**2XDR8**
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	50 mm	18 mm	**2XDL6**	**2XDL7**
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	100 mm	18 mm	**2XDN5**	**2XDN6**
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	200 mm	18 mm	**2XDR3**	**2XDR4**
Retroreflective							
Comet	10 to 30V DC	NPN/PNP	250 mA	4.5 m	18 mm	**2XCG4**	**2XCG6**
Comet	10 to 30V DC	NPN/PNP	250 mA	7.6 m	18 mm	**2XCH3**	**2XCH5**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	7.6 m	18 mm	**2XCH2**	**2XCH4**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	4.5 m	18 mm	**2XCG3**	**2XCG5**
Comet, 90° View	10 to 30V DC	NPN/PNP	250 mA	4.5 m	18 mm	**2XCH7**	**2XCH9**
Comet, 90° View	15 to 30V DC	NPN/PNP	250 mA	3.0 m	18 mm	**2XCG8**	**2XCH1**
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	3.0 m	18 mm	**2XCG7**	**2XCG9**
Comet, 90° View	20 to 264V AC/15 to 30V DC	NPN	300 mA	4.5 m	18 mm	**2XCH6**	**2XCH8**
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	3.0 m	18 mm	**2XDP6**	**2XDP7**
SM, Dark On	18 to 264V AC/18 to 50V DC	NPN	200 mA	3.0 m	18 mm	**2XDP2**	**2XDP3**
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	3.0 m	18 mm	**2XDP8**	**2XDP9**
SM, Light On	18 to 264V AC/18 to 50V DC	NPN	200 mA	3.0 m	18 mm	**2XDP4**	**2XDP5**
Cylindrical Photoelectric Sensor Receiver							
Through Beam Receiver							
Comet	10 to 30V DC	NPN/PNP	250 mA	24.0 m	18 mm	**2XCA9**	**2XCC2**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	24.0 m	18 mm	**2XCA8**	**2XCC1**
SM, Dark On	10 to 30V DC	NPN/PNP	100 mA	15.0 m	18 mm	**2XDR9**	**2XDT1**
SM, Light On	10 to 30V DC	NPN/PNP	100 mA	15.0 m	18 mm	**2XDT2**	**2XDT3**
Cylindrical Photoelectric Sensor Transmitter							
Through Beam Transmitter							
Comet	10 to 30V DC	NPN/PNP	250 mA	Transmitter	18 mm	**2UUT6**	**2XCA2**
Comet	20 to 264V AC/15 to 30V DC	NPN	300 mA	Transmitter	18 mm	**2UUT5**	**2XCA1**
SM	10 to 30V DC	NPN/PNP	100 mA	Transmitter	18 mm	**2XDT4**	**2XDT5**
Photoelectric Sensor							
Diffuse							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	3 m	46 mm	**2XCF8**	**2XCG2**
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	3 m	46 mm	**2XCF7**	**2XCF9**
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	3 m	46 mm	**2XCF6**	**2XCG1**
Retroreflective							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	4.9 m	46 mm	**2XCJ9**	**2XCK3**
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	9 m	46 mm	**2XCJ3**	**2XCJ6**
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	4.9 m	46 mm	**2XCJ7**	**2XCK2**
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	4.9 m	46 mm	**2XCJ8**	**2XCK1** †
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	9 m	46 mm	**2XCJ1**	**2XCJ5**
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	9 m	46 mm	**2XCJ2**	**2XCJ4** †
Through Beam Receiver							
Enhanced 50	10 to 40V DC	NPN/PNP	250 mA	152 m	46 mm	**2XCC5**	**2XCC8**
Enhanced 50	24 to 240V AC/12 to 240V DC	SPDT	3 A	152 m	46 mm	**2XCC4**	**2XCC6**
Enhanced 50	24 to 240V AC/12 to 240V DC	SSR SPST	300 mA	152 m	46 mm	**2XCC3**	**2XCC7**
Through Beam Transmitter							
Enhanced 50	10 to 40V DC	—	—	152 m	46 mm	**2XCA4**	**2XCA7**
Enhanced 50	24 to 240V AC/12 to 240V DC	—	—	152 m	46 mm	**2XCA3**	**2XCA5**
Enhanced 50	24 to 240V AC/12 to 240V DC	—	—	152 m	46 mm	**—**	**2XCA6**

† 5-pin micro style connector.

5B319



5B151

5B317

Reflectors

Telemecanique Sensors · EATON · ifm efector

CORNER CUBE REFLECTORS

Retroreflector prisms return a beam in the same direction it came from—even if the reflector and the source are skewed—for a high degree of reliability. For use with retroreflective photoelectric sensors. The only reflective surface that works with polarized photoelectric sensors. Select reflector smaller than your target.

Item	Shape	Color	Material	Mounting Hole	Luminance Factor	Max. Temp.	Dia.	L	W	D	Brand	Mfr. Model	Item No.
For Use With Polarized Retroreflective Photoelectric Sensors													
Corner Cube Reflector	Rectangular	Amber	Acrylic	—	4000X	150 °F	—	3.25 in	1.5 in	—	Telemecanique	RF13	**5B319**
	Rectangular	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	1.3 in	1.1 in	—	Telemecanique	XUZC24	**5B151**
	Square	Black/Silver	Acrylic	Right/Left	6000X	150 °F	—	2 in	2 in	—	Telemecanique	XUZC50	**5B150**
Flat Reflector	Round	Silver	Acrylic	Center	4000X	150 °F	3 in	—	—	—	Telemecanique	RF30	**5B317**
	Round	Silver	Acrylic	Center	4000X	150 °F	2 in	—	—	—	Telemecanique	RF20	**5B318**
	Round	Silver	Acrylic	—	4000X	150 °F	1 in	—	—	—	Telemecanique	RF10	**5B320**
	Round	Silver	Plastic	Center	3000X	158 °F	3 in	—	—	0.125 in	Eaton	E51KR84	**2XCK9**
Reflective Tape	Rectangular	Silver	Paper	—	2000X	140 °F	—	39 in	0.9063 in	0.0156 in	Telemecanique	XUZB11	**2DC01**
	Rectangular	Silver	Paper	—	2000X	140 °F	—	196 in	0.9063 in	0.0156 in	Telemecanique	XUZB15	**2DC02**
For Use With Retroreflective Sensors													
Flat Reflector	Round	White/clear	Plastic	—	—	140 °F	1 in	—	—	0.1875 in	ifm	E20003	**35T436**
	Round	White/clear	Plastic	—	—	140 °F	1.5 in	—	—	0.1875 in	ifm	E20004	**35T437**
	Round	White/clear	Plastic	Center	—	140 °F	3 in	—	—	0.3125 in	ifm	E20005	**35T438**
Reflective Tape	Rectangular	White	Paper	—	200X	200 °F	—	12 in	3 in	0.0156 in	Telemecanique	RF7590	**2CW09**
	Rectangular	White	Paper	—	670X	150 °F	—	12 in	3 in	0.0156 in	Telemecanique	RF3930	**2CW08**
	Rectangular	White	Paper	—	900X	175 °F	—	12 in	2 in	0.0156 in	Telemecanique	RF7610	**2CW10**

18mm Diameter Photoelectric Sensors

ifm efector

- Long sensing ranges
- Visible red light enables easy setup

Sensing Method	Power Requirement	Circuit Type	Max. Load Current	Photoelectric Operating Mode	Max. Sensing Distance	Mfr. Model	Item No.
3-Pin ½ in Male Connector							
Diffuse	20 to 250V AC/DC	AC	180 mA	Light On	600 mm	OG0035	**35T392**
Diffuse	20 to 250V AC/DC	AC	180 mA	Dark On	600 mm	OG0041	**35T393**
Retroreflective	20 to 250V AC/DC	AC	180 mA	Light On	3.0 m	OG0044	**35T394**
Retroreflective	20 to 250V AC/DC	AC	180 mA	Dark On	3.0 m	OG0033	**35T395**
Through Beam Receiver	20 to 250V AC/DC	AC	180 mA	Light On	15.0 m	OG0031	**35T396**
Through Beam Receiver	20 to 250V AC/DC	AC	180 mA	Dark On	15.0 m	OG0039	**35T397**
Through Beam Transmitter	20 to 250V AC/DC	AC	—	Light On	Transmitter	OG0030	**35T398**
4-Pin M12 Male Connector							
Diffuse	10 to 36V DC	PNP	200 mA	Selectable Light On/Dark On	300 mm	OGH500	**35T399**
Diffuse	10 to 36V DC	NPN	200 mA	Selectable Light On/Dark On	300 mm	OGH502	**35T401**
Retroreflective	10 to 36V DC	PNP	200 mA	Selectable Light On/Dark On	5.0 m	OGP500	**35T402**
Retroreflective	10 to 36V DC	NPN	200 mA	Selectable Light On/Dark On	5.0 m	OGP503	**35T403**
Through Beam Receiver	10 to 36V DC	PNP	200 mA	Selectable Light On/Dark On	25.0 m	OGE500	**35T404**
Through Beam Receiver	10 to 36V DC	NPN	200 mA	Selectable Light On/Dark On	25.0 m	OGE503	**35T405**
Through Beam Transmitter	10 to 36V DC	NPN/PNP	—	Selectable Light On/Dark On	Transmitter	OGS500	**35T406**
Mounting Brackets							
Die Cast Zinc Short Swivel Bracket, For Use With 18mm dia Series Photoelectric Sensors						E20718	**35T434**
Stainless Steel Short Swivel Bracket, For Use With 18mm dia Series Photoelectric Sensors						E20870	**35T435**

Designed and tested to withstand industrial automation applications. Integrated microprocessor-based electronics offer high performance and are completely sealed in compact housings. Background suppression versions reliably differentiate between target and background regardless of background color. Reliable position detection in conveying, material handling, packaging, and automotive applications.

35T392

35T399

Rectangular Photoelectric Sensors

ifm efector

- Max. load rating: 200mA

Sensing Method	Power Requirement	Output Circuit Type	Photoelectric Operating Mode	Max. Sensing Distance	Mfr. Model	Item No.
Right Angle, 4-Pin M12 Male Connector						
Diffuse	10 to 30V DC	PNP	Light On	100 mm	OGH280	**35T414**
Diffuse	10 to 30V DC	NPN	Light On	100 mm	OGH282	**35T415**
Diffuse	10 to 30V DC	PNP	Light On	200 mm	OGH281	**35T416**
Diffuse	10 to 30V DC	NPN	Light On	200 mm	OGH283	**35T417**
Diffuse	10 to 30V DC	PNP	Selectable Light On/Dark On	200 mm	OGH580	**35T418**
Diffuse	10 to 30V DC	NPN	Selectable Light On/Dark On	200 mm	OGH581	**35T419**
Retroreflective	10 to 30V DC	PNP	Dark On	4 m	OGP280	**35T420**
Retroreflective	10 to 30V DC	PNP	Light On	4 m	OGP281	**35T421**
Retroreflective	10 to 30V DC	NPN	Dark On	4 m	OGP282	**35T422**
Through Beam Receiver	10 to 30V DC	PNP	Dark On	20 m	OGE280	**35T423**
Through Beam Receiver	10 to 30V DC	PNP	Light On	20 m	OGE281	**35T424**
Through Beam Receiver	10 to 30V DC	NPN	Dark On	20 m	OGE282	**35T425**
Through Beam Transmitter	10 to 30V DC	Transmitter	Selectable Light On/Dark On	20 m	OGS280	**35T426**
Rectangular, 4-Pin M12 Male Connector						
Diffuse	10 to 36V DC	PNP	Selectable Light On/Dark On	1.8 m	O5H500	**35T427**
Diffuse	10 to 36V DC	NPN	Selectable Light On/Dark On	1.8 m	O5H504	**35T428**
Retroreflective	10 to 36V DC	PNP	Selectable Light On/Dark On	10 m	O5P500	**35T429**
Retroreflective	10 to 36V DC	NPN	Selectable Light On/Dark On	10 m	O5P502	**35T430**
Through Beam Receiver	10 to 36V DC	PNP	Selectable Light On/Dark On	25 m	O5E500	**35T431**
Through Beam Receiver	10 to 36V DC	NPN	Selectable Light On/Dark On	25 m	O5E502	**35T432**
Through Beam Transmitter	10 to 36V DC	Transmitter	Selectable Light On/Dark On	25 m	O5S500	**35T433**
Mounting Bracket						
For Use With O5 Series Photoelectric Sensors					E21087	**35T439**

RIGHT ANGLE

- Max. range: 65-ft.
- AC version has 2 wires for quick installation
- 18mm dia. mounting thread

Cube sensor occupies less space than traditional tubular sensors and is ideal for applications with limited mounting space. Polarized retro-reflective models contain a filter that eliminates false triggers from shiny targets and a 13 ft. range with a 80mm dia. reflector. Metal body.

RECTANGULAR

- Max. range: 82-ft.
- Rugged housing

Connector rotates 270° for versatile mounting options. Protective metal frame withstands mechanical damage in applications.

35T420

35T430

Capacitive Proximity Sensors

ifm efector

Ideal for noncontact detection of nonmetallic targets. NEMA IP67.

Prox. Sensor Dia.	Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Prox. Sensor Elec. Connection	Case Material	Mfr. Model	Item No.
Cylindrical Proximity Sensor								
18 mm	10 to 36V DC	3 Wire PNP	12 mm	NO/NC	4 Pin M12 Connector	PBT	KG5066	**35T516**
18 mm	20 to 250V AC/DC	2 Wire	8 mm	NO	2m Cable	PBT	KG0009	**35T522**
18 mm	20 to 250V AC/DC	2 Wire	8 mm	NC	2m Cable	PBT	KG0010	**35T523**
18 mm	20 to 250V AC/DC	2 Wire	12 mm	NO/NC	2 Pin ½ in UNF Connector	PBT	KG0016	**35T529**
30 mm	10 to 36V DC	3 Wire NPN	15 mm	NO/NC	2m Cable	PBT	KI5208	**35T518**
30 mm	10 to 36V DC	3 Wire PNP	15 mm	NO/NC	2m Cable	PBT	KI5207	**35T517**
30 mm	10 to 36V DC	3 Wire PNP/NPN	20 mm	NO/NC	4 Pin M12 Connector	PBT	KI5082	**35T519**
30 mm	10 to 36V DC	3 Wire PNP/NPN	8 mm	NO/NC	4 Pin M12 Connector	316L Stainless Steel	KI5084	**35T520**
30 mm	10 to 36V DC	3 Wire PNP/NPN	15 mm	NO/NC	4 Pin M12 Connector	316L Stainless Steel	KI5086	**35T521**
30 mm	20 to 250V AC/DC	2 Wire	15 mm	NO	2m Cable	PBT	KI0202	**35T524**
30 mm	20 to 250V AC/DC	2 Wire	15 mm	NC	2m Cable	PBT	KI0203	**35T525**
30 mm	20 to 250V DC, 30 to 250V AC	2 Wire	20 mm	NO/NC	2 Pin ½ in UNF Connector	PBT	KI0054	**35T530**
Rectangular Proximity Sensor								
—	10 to 30V DC	PNP	12.0 mm	NO/NC	M12 Connector	PBT	KQ6005	**35T528**
—	10 to 30V DC	PNP/NPN	12.0 mm	NO/NC	2m Cable	PBT	KQ6001	**35T526**
—	10 to 30V DC	PNP/NPN	12.0 mm	NO/NC	M8 Connector	PBT	KQ6003	**35T527**
—	24 to 240V AC/DC	PNP/NPN	60.0 mm	NO/NC	⅞-16 UN Connector	PPE	KD3500	**35T533**
Rectangular Proximity Sensor Accessories								
Fixing Strap, Set of 5							E10880	**35T532**
Mounting Adapter							E12153	**35T531**

35T529

35T526

M8, M12, and ½" Cordsets

ifm efector

- Female connector to flying leads

Deliver high quality and excellent value. Designed with a lock-in-place coupling nut that secures the cordset to a quick disconnect sensor and resists high levels of shock and vibration. High-flex, PUR-jacketed cable is rated to over 5 million flex cycles. Features a special insert that acts as a mechanical end-stop preventing damage to the O-ring. Designed to resist harsh conditions in industrial automation and oils and coolants. Silicon and halogen free.

No. of Cond.	End 1 Thread	Jacket Color	Max. Voltage	CABLE LENGTH 2 m Item No.	5 m Item No.	10 m Item No.
Straight						
3	½"-20	Yellow	300 V AC, 300 V DC	**35T482**	**35T483**	—
3	M8	Black	50 V AC, 60 V DC	**35T466**	**35T467**	—
4	M8	Black	50 V AC, 60 V DC	**35T470**	**35T471**	—
4	M12	Black	250 V AC, 300 V DC	**35T474**	**35T475**	—
4	M12	Orange	250 V AC, 300 V DC	—	**35T478**	**35T479**
Right Angle						
3	½"-20	Yellow	300 V AC, 300 V DC	**35T484**	**35T485**	—
3	M8	Black	50 V AC, 60 V DC	**35T468**	**35T469**	—
4	M8	Black	50 V AC, 60 V DC	**35T472**	**35T473**	—
4	M12	Black	250 V AC, 300 V DC	**35T476**	**35T477**	—
4	M12	Orange	250 V AC, 300 V DC	—	**35T480**	**35T481**

35T466

35T468

Unshielded, Brass Case
1EWJ3

Shielded, Brass Case
1EVL6

Food and Beverage Unshielded, Plastic Case
1EWX9

Telemecanique Cylindrical Inductive Proximity Sensors

Telemecanique Sensors

- Temp. range: -13° to 158° F; except food and beverage, -13° to 185°F

NEMA 4X rated. UL Listed, CSA and CE Certified, RoHS compliant.

Food and beverage sensors are rated IP69K for high-pressure, high-temp. washdown applications.

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	8 mm Dia. Max. Detecting Distance	8 mm Dia. Item No.	12 mm Dia. Max. Detecting Distance	12 mm Dia. Item No.	18 mm Dia. Max. Detecting Distance	18 mm Dia. Item No.	30 mm Dia. Max. Detecting Distance	30 mm Dia. Item No.
XS6 Series, Shielded, Nickel Plated Brass Case, Long Barrel, Increased Range											
24 to 240V AC/DC	2 Wire	NO	2m Cable	—	—	4 mm	1EXJ5	8 mm	1EXK3	15 mm	1EXL1
24 to 240V AC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	4 mm	1EXJ6	8 mm	4AJ18	15 mm	1EXL2
24 to 240V AC/DC	2 Wire	NC	2m Cable	—	—	4 mm	1EXJ7	8 mm	1EXK4	15 mm	1EXL3
24 to 240V AC/DC	2 Wire	NC	3 Pin ½-20 UNF Male Connector	—	—	—	—	8 mm	1EXK5	—	—
12 to 48V DC	3 Wire NPN	NO	2m Cable	2.5 mm	1EXJ2	4 mm	1EXJ8	8 mm	1EXK6	15 mm	1EXL4
12 to 48V DC	3 Wire NPN	NO	4 Pin M12 Connector	2.5 mm	1EXJ3	4 mm	1EXJ9	8 mm	1EXK7	15 mm	1EXL5
12 to 48V DC	3 Wire PNP	NO	2m Cable	2.5 mm	1EXN5	4 mm	1EXK1	8 mm	1EXK8	15 mm	1EXL6
12 to 48V DC	3 Wire PNP	NO	4 Pin M12 Connector	2.5 mm	1EXN6	4 mm	1EXK2	8 mm	1EXK9	—	—
XS5 Series, Shielded, Nickel Plated Brass Case, Short Barrel, Standard Range											
24 to 240V AC/DC	2 Wire	NO	2m Cable	—	—	2 mm	30UH36	5 mm	30UH42	10 mm	30UH48
12 to 48V DC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	2 mm	30UH40	—	—	10 mm	30UH50
12 to 24V DC	3 Wire NPN	NO	2m Cable	1.5 mm	1WVN6	2 mm	1WVN9	5 mm	1WVP3	10 mm	1WVP6
12 to 24V DC	3 Wire NPN	NO	4 Pin M12 Connector	1.5 mm	32J323	2 mm	1EXH6	5 mm	1EXH8	10 mm	1WVP9
12 to 24V DC	3 Wire PNP	NO	2m Cable	1.5 mm	1WVN7	2 mm	1WVP1	5 mm	1WVP4	10 mm	1WVP7
12 to 24V DC	3 Wire PNP	NO	4 Pin M12 Connector	1.5 mm	32J324	2 mm	1EXH7	5 mm	1WVP8	10 mm	32J325
XS2 Series, Unshielded, Nickel Plated Brass Case											
12 to 24V DC	3 Wire NPN	NO	2m Cable	2 mm	1EVZ2	4 mm	1EWC8	8 mm	1EWH4	15 mm	1EWL9
12 to 24V DC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	—	—	8 mm	1EWH6	15 mm	1EWN2
12 to 24V DC	3 Wire PNP	NO	2m Cable	2.5 mm	1EWA1	4 mm	1EWD7	8 mm	1EWJ3	15 mm	1EWN8
12 to 24V DC	3 Wire PNP	NO	4 Pin M12 Connector	2.5 mm	1EWA3	4 mm	1EWD9	8 mm	1EWJ5	—	—
XS1 Series, Shielded, Nickel Plated Brass Case											
12 to 24V DC	3 Wire NPN	NO	2m Cable	1.5 mm	1EVJ2	2 mm	1EVL4	—	—	10 mm	1EVT6
12 to 24V DC	3 Wire NPN	NO	4 Pin M12 Connector	1.5 mm	1EVJ4	2 mm	1EVL6	5 mm	1EVP7	—	—
12 to 24V DC	3 Wire PNP	NO	2m Cable	1.5 mm	1EVK1	2 mm	1EVN3	—	—	10 mm	1EVU5
12 to 24V DC	3 Wire PNP	NO	4 Pin M12 Connector	1.5 mm	1EVK3	2 mm	1EVN5	5 mm	1EVR6	10 mm	1EVU7
Food and Beverage Sensors, XS2 Series, Unshielded, Plastic Case											
24 to 240V AC/DC	2 Wire	NO	2m Cable	—	—	—	—	12 mm	1EWY8	22 mm	1EWZ3
24 to 240V AC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	—	—	12 mm	1EWZ2	22 mm	1EWZ6
12 to 24V DC	3 Wire NPN	NO	2m Cable	—	—	7 mm	1EWX5	12 mm	1EWX9	22 mm	1EWY4
12 to 24V DC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	7 mm	1EWX8	12 mm	1EWY3	22 mm	1EWY7
12 to 24V DC	3 Wire PNP	NO	2m Cable	—	—	7 mm	1EWV2	12 mm	1EWV6	22 mm	1EWX1
12 to 24V DC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	7 mm	1EWV5	12 mm	1EWV9	22 mm	1EWX4
Food and Beverage Sensors, XS2 Series, Unshielded, 316L Stainless Steel Case											
24 to 240V AC/DC	2 Wire	NO	2m Cable	—	—	—	—	12 mm	1EWU3	22 mm	1EWU7
24 to 240V AC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	—	—	—	—	12 mm	1EWU6	22 mm	1EWV1
12 to 24V DC	3 Wire NPN	NO	2m Cable	—	—	7 mm	1EWR9	12 mm	1EWT4	22 mm	1EWT8
12 to 24V DC	3 Wire NPN	NO	4 Pin M12 Connector	—	—	7 mm	1EWT3	12 mm	1EWT7	22 mm	1EWU2
12 to 24V DC	3 Wire PNP	NO	2m Cable	—	—	7 mm	1EWP6	12 mm	1EWR1	22 mm	1EWR5
12 to 24V DC	3 Wire PNP	NO	4 Pin M12 Connector	—	—	7 mm	1EWP9	12 mm	1EWR4	22 mm	1EWR8

18mm
2XCT1

30mm
2XCU4

EATON

Eaton Cylindrical Inductive Proximity Sensors

Stainless steel sensors for use with metallic targets. NEMA rated 4, 4X, 6, 6P, 12, and 13 (IP67, IP69K). C-UL Listed. Models with NPN and PNP circuits also CE Certified.

IPROX®
- AC models rated for 250mA max. load
- DC models rated for 300mA max. load
- Temp. range: -40° to 158°F

Extended sensing ranges. Shock-resistant front cap. Wired NO; advanced features can be configured using optional software 2XDL3, sold separately. For automotive, machine tool, material handling, and metal-working applications.

E57 SERIES
- AC and DC models rated for 250mA max. load
- Temp. range: -13° to 158°F
- 360° LED status indicator

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	12 mm Dia. Max. Detecting Distance	12 mm Dia. Item No.	18 mm Dia. Max. Detecting Distance	18 mm Dia. Item No.	30 mm Dia. Max. Detecting Distance	30 mm Dia. Item No.	8 mm Dia. Max. Detecting Distance	8 mm Dia. Item No.
iProx®, Unshielded											
20 to 132V AC	2 Wire	NO	2m Cable	10 mm	2XDJ2	18 mm	2XDK3	29 mm	2XDK9	—	—
20 to 132V AC	2 Wire	NO	3 Pin Micro AC Connector	10 mm	2XDJ1	18 mm	2XDK2	29 mm	2XDK8	—	—
6 to 48V DC	Programmable	NO	2m Cable	10 mm	2XDJ3	16 mm	2XDJ9	29 mm	2XDL1	—	—
6 to 48V DC	Programmable	NO	4 Pin Micro DC Connector	10 mm	2XDJ4	16 mm	2XDK1	29 mm	2XDL2	—	—
iProx®, Shielded											
20 to 132V AC	2 Wire	NO	2m Cable	—	—	8 mm	2XDJ8	15 mm	2XDK5	—	—
20 to 132V AC	2 Wire	NO	3 Pin Micro AC Connector	4 mm	2XDH7	8 mm	2XDJ7	15 mm	2XDK4	—	—
6 to 48V DC	Programmable	NO	2m Cable	4 mm	2XDH8	8 mm	2XDJ5	15 mm	2XDK6	—	—
6 to 48V DC	Programmable	NO	4 Pin Micro DC Connector	4 mm	2XDH9	8 mm	2XDJ6	15 mm	2XDK7	—	—
E57 Long Range Series, Unshielded											
20 to 250V AC	2 Wire	NO	2m Cable	—	—	—	—	15 mm	2XCV7 *	—	—
20 to 250V AC	2 Wire	NO	3 Pin Micro AC Connector	—	—	—	—	15 mm	2XCV8 *	—	—
20 to 250V AC	2 Wire	NC	2m Cable	—	—	—	—	15 mm	2XCW4 *	—	—
20 to 250V AC	2 Wire	NC	3 Pin Micro AC Connector	—	—	—	—	15 mm	2XCW5 *	—	—
20 to 132V AC	2 Wire	NO	2m Cable	10 mm	2XCN4	20 mm	2XCT1	—	—	—	—
20 to 132V AC	2 Wire	NO	3 Pin Micro AC Connector	10 mm	2XCN7	20 mm	2XCT4	—	—	—	—
20 to 132V AC	2 Wire	NC	2m Cable	10 mm	2XCN5	20 mm	2XCT2	—	—	—	—
20 to 132V AC	2 Wire	NC	3 Pin Micro AC Connector	10 mm	2XCN6	20 mm	2XCT3	—	—	—	—
10 to 30V DC	3 Wire NPN	NO	2m Cable	4 mm	40HX87	8 mm	40HX67	15 mm	40HX42	2 mm	39F034
10 to 30V DC	3 Wire NPN	NO	4 Pin Micro DC Connector	4 mm	40HX75	8 mm	40HX47	15 mm	40HX78	2 mm	39F035
10 to 30V DC	3 Wire PNP	NO	2m Cable	4 mm	40HX63	8 mm	40HX57	15 mm	40HX66	2 mm	39F036
10 to 30V DC	3 Wire PNP	NO	4 Pin Micro DC Connector	4 mm	40HX59	8 mm	40HX44	15 mm	40HX62	2 mm	39F037
6 to 48V DC	3 Wire NPN	NO	2m Cable	10 mm	2XCP3	20 mm	2XCT9	—	—	—	—
6 to 48V DC	3 Wire NPN	NO	4 Pin Micro DC Connector	10 mm	2XCP6	20 mm	2XCU3	—	—	—	—
6 to 48V DC	3 Wire PNP	NO	2m Cable	10 mm	2XCN8	20 mm	2XCT5	—	—	—	—
6 to 48V DC	3 Wire PNP	NO	4 Pin Micro DC Connector	10 mm	2XCP2	20 mm	2XCT8	—	—	—	—
E57 Long Range Series, Shielded											
10 to 30V DC	3 Wire NPN	NO	2m Cable	2 mm	40HX79	5 mm	40HX84	10 mm	40HX85	1 mm	39F030
10 to 30V DC	3 Wire NPN	NO	4 Pin Micro DC Connector	2 mm	40HX49	5 mm	40HX64	10 mm	40HX45	1 mm	39F031
10 to 30V DC	3 Wire PNP	NO	2m Cable	2 mm	40HX83	5 mm	40HX70	10 mm	40HX73	1 mm	39F032
10 to 30V DC	3 Wire PNP	NO	4 Pin Micro DC Connector	2 mm	40HX69	5 mm	40HX41	10 mm	40HX72	1 mm	39F033
E57 Long Range Series, Semi-Shielded											
20 to 132V AC	2 Wire	NO	2m Cable	6 mm	2XCL1	12 mm	2XCP7	22 mm	2XCU4	—	—
20 to 132V AC	2 Wire	NO	3 Pin Micro AC Connector	6 mm	2XCL4	12 mm	2XCR1	22 mm	2XCU7	—	—
20 to 132V AC	2 Wire	NC	2m Cable	6 mm	2XCL2	12 mm	2XCP8	22 mm	2XCU5	—	—
20 to 132V AC	2 Wire	NC	3 Pin Micro AC Connector	6 mm	2XCL3	12 mm	2XCP9	22 mm	2XCU6	—	—
6 to 48V DC	3 Wire NPN	NO	2m Cable	6 mm	2XCL9	12 mm	2XCR6	22 mm	2XCV3	—	—
6 to 48V DC	3 Wire NPN	NO	4 Pin Micro DC Connector	6 mm	2XCN3	12 mm	2XCR9	22 mm	2XCV6	—	—
6 to 48V DC	3 Wire PNP	NO	2m Cable	6 mm	2XCL5	12 mm	2XCR2	22 mm	2XCU8	—	—
6 to 48V DC	3 Wire PNP	NO	4 Pin Micro DC Connector	6 mm	2XCL8	12 mm	2XCR5	22 mm	2XCV2	—	—

Description	For Use With	Mfr. Model	Item No.
Accessories			
Programming Software, Includes ProxView Software, RS-232 Programming Cable	iProx(R) E59 Proximity Sensor	E59RP1	2XDL3
Right Angle Proximity Sensor Mount, Stainless Steel	12mm dia Proximity Sensor	E57KM12	2XDT6
Right Angle Proximity Sensor Mount, Stainless Steel	18mm dia Proximity Sensor	E57KM18	2XDT7

** Rated 20-250V.*

ifm efector

Inductive Proximity Sensors

Ideal for noncontact detection of metal targets in position sensing applications and part presence application. Extended sensing ranges reduce failure from mechanical damage. Robust housing is designed for industrial applications. 4 visible LED outputs indicate status, making troubleshooting quick and easy. NEMA IP67.

35T376

35T311

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Output Mode	Prox. Sensor Elec. Connection	Case Material	SHIELDED Max. Detecting Distance	SHIELDED Mfr. Model	SHIELDED Item No.	UNSHIELDED Max. Detecting Distance	UNSHIELDED Mfr. Model	UNSHIELDED Item No.
8 mm Dia.										
10 to 36V DC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	1 mm	IE5207	**35T375**	—	—	—
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	1 mm	IE5123	**35T368**	—	—	—
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	1 mm	IE5121	**35T361**	—	—	—
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	2 mm	IE5312	**35T307**	4 mm	IE5288	**35T308**
12 mm Dia.										
10 to 30V DC	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS242	**40KH14**	7 mm	IFS243	**40KH18**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS249	**40KH16**	7 mm	IFS251	**40KH20**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	4 mm	IFS254	**40KH38**	7 mm	IFS255	**40KH40**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS246	**40KH50**	7 mm	IFS247	**40KH54**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS262	**40KH52**	7 mm	IFS263	**40KH56**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	4 mm	IFS258	**40KH74**	7 mm	IFS259	**40KH76**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS204	**35T309**	7 mm	IFS205	**35T310**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS212	**35T313**	7 mm	IFS213	**35T314**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS240	**40KH13**	7 mm	IFS241	**40KH17**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS248	**40KH15**	7 mm	IFS250	**40KH19**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	4 mm	IFS252	**40KH37**	7 mm	IFS253	**40KH39**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS244	**40KH49**	7 mm	IFS245	**40KH53**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	4 mm	IFS260	**40KH51**	7 mm	IFS261	**40KH55**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	4 mm	IFS256	**40KH73**	7 mm	IFS257	**40KH75**
10 to 36V DC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	2 mm	IF5720	**35T376**	4 mm	IF5719	**20XG34**
15 to 30V DC	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	2 mm	IF7102	**35T311**	4 mm	IF7103	**35T312**
	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	2 mm	IF7106	**35T369**	4 mm	IF7107	**35T370**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	2 mm	IF7104	**35T362**	4 mm	IF7105	**35T363**
20 to 140V AC/DC	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	4 mm	IF0311	**35T329**	7 mm	IF0312	**35T330**
20 to 250V AC	2 Wire	NO	2m Cable	Brass White Bronze Coated	2 mm	IF0303	**35T349**	4 mm	IF0302	**35T351**
	2 Wire	NC	2m Cable	Brass White Bronze Coated	2 mm	IF0006	**35T350**	4 mm	IF0008	**35T352**
18 mm Dia.										
10 to 30V DC	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	5 mm	IG7102	**35T317**	8 mm	IG7103	**35T318**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS234	**40KH22**	12 mm	IGS235	**40KH26**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS241	**40KH24**	12 mm	IGS243	**40KH28**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	8 mm	IGS246	**40KH42**	12 mm	IGS247	**40KH44**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS238	**40KH58**	12 mm	IGS239	**40KH62**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS254	**40KH60**	12 mm	IGS255	**40KH64**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	8 mm	IGS250	**40KH78**	12 mm	IGS251	**40KH80**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS232	**40KH21**	12 mm	IGS233	**40KH25**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS240	**40KH23**	12 mm	IGS242	**40KH27**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS212	**35T319**	12 mm	IGS213	**35T320**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	8 mm	IGS244	**40KH41**	12 mm	IGS245	**40KH43**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS236	**40KH57**	12 mm	IGS237	**40KH61**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS252	**40KH59**	12 mm	IGS253	**40KH63**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	8 mm	IGS248	**40KH77**	12 mm	IGS249	**40KH79**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	8 mm	IGS204	**35T315**	12 mm	IGS205	**35T316**
10 to 36V DC	2 Wire PNP/NPN	NO	2m Cable	Brass White Bronze Coated	5 mm	IG5717	**35T378**	—	—	—
15 to 30V DC	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	—	—	—	8 mm	IG7107	**35T372**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	5 mm	IG7104	**35T364**	8 mm	IG7105	**35T365**
20 to 250V AC/DC	2 Wire	NO	2m Cable	316L Stainless Steel	5 mm	IG0328	**35T353**	—	—	—
	2 Wire	NC	2m Cable	Brass White Bronze Coated	5 mm	IG0327	**35T354**	8 mm	IG0313	**35T356**
	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	8 mm	IG0344	**35T331**	12 mm	IG0345	**35T332**
	2 Wire	NO	2m Cable	Brass White Bronze Coated	—	—	—	8 mm	IG0307	**35T355**
30 mm Dia.										
10 to 30V DC	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	15 mm	IIS240	**40KH46**	22 mm	IIS241	**40KH48**
	3 Wire NPN	NO	4 Pin M12 Connector	Nickel Plated Brass	10 mm	II7102	**35T323**	—	—	—
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS235	**40KH32**	22 mm	IIS237	**40KH36**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS232	**40KH66**	22 mm	IIS233	**40KH70**
	3 Wire NPN	NC	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS248	**40KH68**	22 mm	IIS249	**40KH72**
	3 Wire NPN	NO	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS228	**40KH30**	22 mm	IIS229	**40KH34**
	3 Wire NPN	NO	2m Cable	Brass White Bronze Coated	15 mm	IIS244	**40KH82**	22 mm	IIS245	**40KH84**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS230	**40KH65**	22 mm	IIS231	**40KH69**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS246	**40KH67**	22 mm	IIS247	**40KH71**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	15 mm	IIS238	**40KH45**	22 mm	IIS239	**40KH47**
	3 Wire PNP	NO	4 Pin M12 Connector	316L Stainless Steel	15 mm	IIS210	**35T325**	22 mm	IIS211	**35T326**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS226	**40KH29**	22 mm	IIS227	**40KH33**
	3 Wire PNP	NO	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS204	**35T321**	22 mm	IIS205	**35T322**
	3 Wire PNP	NO	2m Cable	Brass White Bronze Coated	15 mm	IIS242	**40KH81**	22 mm	IIS243	**40KH83**
	3 Wire PNP	NC	4 Pin M12 Connector	Brass White Bronze Coated	15 mm	IIS234	**40KH31**	22 mm	IIS236	**40KH35**
15 to 30V DC	3 Wire NPN	NO	2m Cable	Nickel Plated Brass	—	—	—	15 mm	II7107	**35T374**
	3 Wire PNP	NO	2m Cable	Nickel Plated Brass	10 mm	II7104	**35T366**	—	—	—
20 to 250V AC/DC	2 Wire	NC	2m Cable	Brass White Bronze Coated	—	—	—	15 mm	II0275	**35T360**
	2 Wire	NO	3 Pin ½-20 UNF Male Connector	Brass White Bronze Coated	15 mm	II0340	**35T333**	22 mm	II0341	**35T334**
Rectangular Proximity Sensor										
10 to 36V DC	3 Wire PNP	NO	M12 Connector	Polyamide	20.0 mm	IM5115	**35T327**	35.0 mm	IM5116	**35T328**
24 to 240V AC/DC	3 Wire	NC	3 Pin ½-20 UNF Male Connector	PPE, PPS	—	—	—	35.0 mm	IM0057	**35T336**
	3 Wire	NO	3 Pin ½-20 UNF Male Connector	PPE, PPS	20.0 mm	IM0054	**20XG33**	—	—	—

Inductive Proximity Sensors

ifm efector

- NEMA rated IP67
- Operating temp. range: -13° to 176°F
- 0.40" W x 1.09" L x 0.63" D

Feature 2m cable connection, PBT case, shielded body, and 1 yellow LED for output state.

24JY94

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	OUTPUT MODE NO Mfr. Model	NO Item No.	NC Mfr. Model	NC Item No.
10 to 30V DC	PNP	2.0 mm	IS5001	**24JY94**	IS5002	**24JY95**
10 to 36V DC	NPN	2.0 mm	IS5003	**24JY96**	IS5004	**24JY97**

6C796

3XC05

6C803

1EA75

3XC02

Tubular Proximity Sensors

OMRON®

- LED status indicator(s), unless noted in table
- Inductive sensors: for ferrous-metal targets
- Capacitive sensors: for metallic and nonmetallic targets

Prox. Sensor Dia.	Max. Detecting Distance	Prox. Sensor Elec. Connection	Mfr. Model	24 to 240V AC, 2 Wire, NO Item No.	24 to 240V AC, 2 Wire, NC Item No.	12 to 24V DC, 3 Wire NPN, NO Item No.	12 to 24V DC, 3 Wire PNP, NO Item No.	12 to 24V DC, 2 Wire, NO Item No.	12 to 24V DC, 3 Wire NPN, NC Item No.
Shielded, Inductive, Nickel Plated Brass Case									
8 mm	1.5 mm	2m Cable	E2E	—	—	—	**6C809**	—	—
8 mm	1.5 mm	4 Pin M12 Connector	E2E	—	—	—	**2AKC7**	—	—
8 mm	2 mm	2m Cable	E2E	—	—	—	—	**6C817**	—
12 mm	2 mm	2m Cable	E2E	**2A186**	**6C810**	**2A264**	**2A189**	—	—
12 mm	2 mm	2m Cable	E2E2	**6C796**	**6C797**	**6C798**	**2AJZ8**	—	—
12 mm	2 mm	4 Pin M12 Connector	E2E	**1EA58**	—	—	—	—	—
12 mm	2 mm	4 Pin M12 Connector	E2E	**1EA56**	—	**1EA54**	**2AKC6**	—	—
12 mm	2 mm	4 Pin M12 Connector	E2E2	**1EA68**	—	**1EA64**	**2AKA5**	—	—
12 mm	3 mm	2m Cable	E2E	—	—	—	—	**6C818**	—
12 mm	3 mm	2m Cable	E2E2	—	—	—	—	**1EA60**	—
18 mm	5 mm	2m Cable	E2E	**3XC05**	—	**3XC06**	**6C806**	—	—
18 mm	5 mm	2m Cable	E2E2	**6C799**	**6C800**	**6C801**	**2AJZ9**	—	—
18 mm	5 mm	4 Pin M12 Connector	E2E	**1EA59**	—	—	—	—	—
18 mm	5 mm	4 Pin M12 Connector	E2E	**1EA57**	—	**1EA55**	**2AKC5**	—	—
18 mm	5 mm	4 Pin M12 Connector	E2E2	**1EA69**	—	**1EA65**	**2AKA4**	—	—
18 mm	7 mm	2m Cable	E2E	—	—	—	—	**6C819**	—
18 mm	7 mm	2m Cable	E2E2	—	—	—	—	**1EA61**	—
30 mm	10 mm	2m Cable	E2E	**2AKB2**	—	**4A332**	**6C805**	**2AKB9**	—
30 mm	10 mm	2m Cable	E2E2	**6C803**	**6C804**	**6C802**	**2AKA1**	**2AKA9**	—
30 mm	10 mm	3 Pin M12 Connector	E2E	**2AKB5**	—	—	—	—	—
30 mm	10 mm	3 Pin M12 Connector	E2E2	**2AJZ6**	—	—	—	—	—
30 mm	10 mm	4 Pin M12 Connector	E2E	**2AKB6**	—	**2AKC3**	**2AKC4**	—	—
30 mm	10 mm	4 Pin M12 Connector	E2E2	—	—	**2AKA3**	—	—	—
Shielded, Inductive, Plastic Case									
8 mm	1.5 mm	2m Cable	E2F	**6C824**	—	**6C825**	**1EA75**	—	**2AKF4**
12 mm	2 mm	2m Cable	E2F	**6C823**	**2AKE7**	**3XC02**	**1EA76**	—	**2AKF3**
18 mm	5 mm	2m Cable	E2F	**1EA78**	**2AKE6**	**6C826**	**1EA77**	—	**2AKF2**
30 mm	10 mm	2m Cable	E2F	—	—	**6C827**	**2AKF1**	—	**2AKE9**
Shielded, Inductive, Stainless Steel Case									
8 mm	1.5 mm	2m Cable	E2E	**6C811**	**6C812**	**6C807**	—	—	—
8 mm	1.5 mm	4 Pin M12 Connector	E2E	—	—	**1EA53**	—	—	—
Unshielded, Capacitive, Plastic Case									
12 mm	4 mm	2m Cable	E2K	**6C837** *#	**6C838** *#	**6C840** *	—	—	—
18 mm	8 mm	2m Cable	E2K	**2AKD3** #	**2AKD4** #	**6C841** *	**2AKD8**	—	—
30 mm	15 mm	2m Cable	E2K	**6C839** *#	**3XC03** *#	**6C843** *	**2AKD6** *	—	—
34 mm	25 mm	2m Cable	E2K	**4A331** *†#	**4A341** *†#	**6C835** *†	**2AKF5** *†	—	**6C836** *†
Unshielded, Inductive, Nickel Plated Brass Case									
8 mm	2 mm	2m Cable	E2E	—	—	**1EA50**	—	—	—
12 mm	5 mm	2m Cable	E2E	**2AKB3**	—	**1EA51**	—	—	—
12 mm	5 mm	2m Cable	E2E2	**1EA73**	—	—	—	—	—
12 mm	8 mm	2m Cable	E2E2	—	—	—	—	**1EA62**	—
18 mm	10 mm	2m Cable	E2E	—	—	**1EA52**	—	—	—
18 mm	10 mm	2m Cable	E2E2	**1EA74**	—	—	—	—	—
18 mm	10 mm	4 Pin M12 Connector	E2E2	—	—	**1EA67**	—	—	—
18 mm	14 mm	2m Cable	E2E2	—	—	—	—	**1EA63**	—
30 mm	20 mm	2m Cable	E2E2	—	—	—	—	**2AKB1**	—
Unshielded, Inductive, Stainless Steel Case									
8 mm	2 mm	2m Cable	E2E	**2AKB4**	—	—	—	—	—

** No LED status indicator. † Includes L-shaped bracket. ‡ 90-140VAC only. # 90-250VAC only.*

6C829

Inductive Proximity Sensors

OMRON®

- -13° to 158°F

CE Certified.

Note: Mounting brackets are available; call 1-800-GRAINGER (472-4643).
On Grainger.com®, search for "proximity sensor mounting brackets."

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Max. Current Load	L	W	D	Mfr. Model	Item No.
Subminiature Flat-Pack Style									
10 to 30V DC	3 Wire NPN	3.0 mm	NO	100mA	27 mm	10 mm	6 mm	TL-W3MC1	**6C829**
10 to 30V DC	3 Wire NPN	5.0 mm	NO	100mA	31 mm	18 mm	10 mm	TL-W5MC1	**6C830**
10 to 30V DC	3 Wire NPN	5.0 mm	NO	200mA	52 mm	25 mm	10 mm	TL-W5E1	**6C831**
10 to 30V DC	3 Wire NPN	5.0 mm	NC	200mA	52 mm	25 mm	10 mm	TL-W5E2	**6C832**
10 to 30V DC	3 Wire NPN	20.0 mm	NO	200mA	53 mm	40 mm	23 mm	TL-W20ME1	**6C833**
10 to 30V DC	3 Wire NPN	20.0 mm	NC	200mA	73 mm	40 mm	23 mm	TL-W20ME2	**6C834**

32J303

32J306

Telemecanique XS Series Proximity Sensors

Telemecanique Sensors

- 40mm square body
- Plastic case
- -13° to 158°F

UL Listed, CSA and CE Certified.

Prox. Sensor Power Reqd.	Prox. Sensor Output Circuit Type	Max. Detecting Distance	Output Mode	Max. Current Load	Mfr. Model	Item No.
Cubic C2 Shielded						
12 to 48V DC	3 Wire PNP	20.0 mm	NO/NC	200mA	XS8C2A1PCM12	**32J310**
24 to 240V AC/DC	2 Wire	15.0 mm	NO	200mA	XS7C2A1MAU20	**32J303**
24 to 240V AC/DC	2 Wire	20.0 mm	NO	200mA	XS8C2A1MAU20	**32J304**
Cubic C2 Unshielded						
12 to 48V DC	3 Wire PNP	40.0 mm	NO/NC	200mA	XS8C2A4PCM12	**32J312**
24 to 240V AC/DC	2 Wire	40.0 mm	NO	200mA	XS8C2A4MAU20	**32J305**
12 to 24V DC	2 Wire Analog	25.0 mm	4 to 20mA	20mA	XS9C2A2A2M12	**32J318**
12 to 24V DC	3 Wire Analog	25.0 mm	4 to 20mA	10mA	XS9C2A2A1M12	**32J317**
Rectangular C4 Shielded						
12 to 48V DC	4 Wire PNP	20.0 mm	NO/NC	200mA	XS8C4A1PCN12	**32J314**
24 to 240V AC/DC	2 Wire	15.0 mm	NO/NC	300/200mA	XS7C4A1MPN12	**32J306**
24 to 240V AC/DC	2 Wire	20.0 mm	NO/NC	300/200mA	XS8C4A1MPN12	**32J308**
Rectangular C4 Unshielded						
12 to 48V DC	4 Wire PNP	40.0 mm	NO/NC	200mA	XS8C4A4PCN12	**32J316**
24 to 240V AC/DC	2 Wire	40.0 mm	NO/NC	300/200mA	XS8C4A4MPN12	**32J309**
12 to 24V DC	2 Wire Analog	25.0 mm	4 to 20mA	20mA	XS9C4A2A2N12	**32J321**
12 to 24V DC	3 Wire Analog	25.0 mm	0 to 10V	10mA	XS9C4A2A1N12	**32J319**

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 60/80 psi Range: 20-100 psi Item No.	80/100 psi Range: 20-100 psi Item No.	95/125 psi Range: 40-150 psi Item No.	105/135 psi Range: 40-150 psi Item No.	120/150 psi Range: 40-150 psi Item No.	135/175 psi Range: 60-200 psi Item No.
(1) Port, ¼ in FNPS, Series 9013FHG									
No	Auto/Off	1 ½ hp	2 hp	**2PXL5**	**1V628**	**1V624**	**2PXJ1**	**2PXJ4**	**3AY91**
¼ in Compression	Auto/Off	1 ½ hp	2 hp	**2PXL6**	**3TV98**	**3AY90**	**2PXJ2**	**2PXJ5**	**3AY92**
No	None	1 ½ hp	2 hp	**2PXL4**	**5B418**	**5B419**	**2PXH9**	**2FG80**	—
¼ in Compression	None	1 ½ hp	2 hp	**2PXL7**	**5B417**	**2FG79**	**2PXJ3**	**2FG81**	**2FG90**
No	Auto/Off	2 hp	3 hp	**2PXK8**	**3AY93**	**2PXN4**	**2PXL9**	**2PXN7**	**2PXR1**
¼ in Compression	Auto/Off	2 hp	3 hp	**2PXK9**	—	**2PXN5**	**2PXN1**	—	—
No	None	2 hp	3 hp	**2PXK7**	**2FG84**	**2PXN3**	**2PXL8**	**2FG87**	**2DC08**
¼ in Compression	None	2 hp	3 hp	**2PXL1**	**2FG85**	**2PXN6**	**2PXN2**	**2FG88**	**2DC09**
(1) Port, ¼ in MNPT, Series 9013FHG									
¼ in Compression	None	1 ½ hp	2 hp	**2PXR5**	**2FG83** *	**2PXK4**	**2PXK2**	**2PXK6**	**2PXH7**
No	None	1 ½ hp	2 hp	**2PXR4**	**2FG82** *	**2PXK3**	**2PXK1**	**2PXK5**	**2FG91**
No	None	2 hp	3 hp	**2PXL3**	**2FG86**	**2PXP6**	**2PXP5**	**2PXP7**	**2PXH8**
(4) Port, ¼ in FNPS, Series 9013FHG									
¼ in Compression	Auto/Off	1 ½ hp	2 hp	—	**5A018**	**5A020**	**2PXJ6**	**2PXJ8**	**2PXP8**
¼ in Compression	None	1 ½ hp	2 hp	—	**5A301**	**5A537**	**2PXJ7**	**2PXJ9**	**2PXP9**
¼ in Compression	Auto/Off	2 hp	3 hp	—	**1V626**	**2PXP1**	**2PXN8**	**2PXP3**	**2PXR2**
¼ in Compression	None	2 hp	3 hp	—	**2PXL2**	**2PXP2**	**2PXN9**	**2PXP4**	**2PXR3**
Pressure Switch									
No	None	1 ½ hp	2 hp	—	—	—	—	—	**2FG89**

** Factory On/Off Setting = 70/100 psi, Range: 40-150 psi.*

5B418

Pumptrol® Air Pressure Switches—Fixed Differential

- 2-pole, HP rated
- Diaphragm actuated
- Contacts open on pressure rise
- NEMA 1 enclosure

Control electrically driven air compressors. Unloader models feature a small valve that opens at shutoff, releasing air pressure from the compressor head. Temp. range: -22° to 257°F. UL Listed and CSA Certified.

Pumptrol® Air and Water Pressure Switches—Adjustable Differential

- 2-pole, HP rated
- Diaphragm actuated
- Contacts open on pressure rise
- NEMA 1 enclosure

Control electrically driven air compressors or pumps. Unloader models feature a small valve that opens at shutoff, releasing air pressure from the compressor head. Temp. range: -22° to 257°F. UL Listed and CSA Certified.

2FH17

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 60/80 psi Item No.	75/100 psi Item No.	80/100 psi Item No.	100/125 psi Item No.	125/150 psi Item No.	140/175 psi Item No.	145/175 psi Item No.
(1) Port, ¼ in FNPS, Series 9013GHG, Pressure Switch Range: 40 to 200 psi, Pressure Switch Differential 20 to 40 psi										
No	None	2 hp	3 hp	**2FH17**	**6B438**	**6B441**	**2FH22**	**2FH26**	**2FH28**	**5B409**
No	Auto/Off/On	2 hp	3 hp	**2PXR6**	**6B440**	**6B443**	**2PXR7**	**2PXR8**	**2PXR9**	**2PXT2**
¼ in Compression	None	2 hp	3 hp	—	—	**6B442**	**2FH23**	—	**2PXT1**	**5B408**
(1) Port, ⅜ in FNPS, Series 9013GHG, Pressure Switch Range: 40 to 200 psi, Pressure Switch Differential 20 to 40 psi										
No	None	2 hp	3 hp	**2PXT3**	**2PXT6**	**2FH32**	—	**2PXU4**	**2PXU7**	—
No	Auto/Off/On	2 hp	3 hp	**2PXT4**	**2PXT7**	**2PXT9**	**2PXU2**	**2PXU5**	**2PXU8**	—
¼ in Compression	None	2 hp	3 hp	**2PXT5**	**2PXT8**	**2PXU1**	**2PXU3**	**2PXU6**	**2PXU9**	—

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 130/175 psi Item No.	145/175 psi Item No.	215/250 psi Item No.
(1) Port, ¼ in FNPS, Series 9013GHG, Pressure Switch Range: 32 to 250 psi, Pressure Switch Differential 24 to 45 psi						
No	None	2 hp	3 hp	**6B444**	—	—
No	Auto/Off/On	2 hp	3 hp	**2PXV1**	—	**2PXV2**
¼ in Compression	None	2 hp	3 hp	—	—	**2PXV3**

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	FACTORY ON/OFF SETTING 130/175 psi Item No.	145/175 psi Item No.	215/250 psi Item No.
(1) Port, ⅜ in FNPS, Series 9013GHG, Pressure Switch Range: 32 to 250 psi, Pressure Switch Differential 24 to 45 psi						
No	None	2 hp	3 hp	**2PXV4**	**1V632**	**2PXV8**
No	Auto/Off/On	2 hp	3 hp	**2PXV5**	**2PXV7**	—
¼ in Compression	None	2 hp	3 hp	—	**1V634**	—

Pumptrol® Water Pump Pressure Switches

- 1- and 2-pole, HP Rated
- ¼" female connection
- Diaphragm actuated
- NEMA 1 enclosure

Designed for direct control of electrically driven pumps. Can be used with motor starters to control higher horsepower motors. Low pressure cutoff switches operate at approximately 10 psi below the cut-in setting and will turn the pump off. Switches with a pulsation plug sense change over a longer interval and does not respond to spikes. Temp. range: -22° to 257°F. UL Listed and CSA Certified.

1V630

Manual Switch Action	Pressure Switch Range	Pressure Switch Differential	Pressure Switch Contact Form	HP @ 1-Phase 120V	HP @ 1-Phase 240V	Series	FACTORY ON/OFF SETTING 20/40 psi Item No.	30/50 psi Item No.	40/60 psi Item No.	50/70 psi Item No.	60/80 psi Item No.
Standard Action (Open on Rise)											
None	5 to 65 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	**5B415**	**2FH02**	**2FH08**	—	—
None	5 to 80 psi	15 to 30 psi	DPST	2 hp	3 hp	9013GSG	**6B446**	**2FH38**	**2FH40**	**2PYD4**	—
None	5 to 80 psi	20 to 30 psi	DPST	2 hp	3 hp	9013FYG	**5B411**	**5B410**	**2PYA2**	**2PYA9**	**2FH15**
None	10 to 80 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	—	—	—	**2PXZ3**	**2PXY8**
Auto/Off	5 to 65 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	**2FG98**	**2FH05**	**2PXY6**	—	—
Auto/Off	5 to 80 psi	15 to 30 psi	DPST	2 hp	3 hp	9013GSG	**6B449**	**2PYC4**	**2PYC7**	—	**2PYC9**
Auto/Off	5 to 80 psi	20 to 30 psi	DPST	2 hp	3 hp	9013FYG	**2PXZ7**	**2PXZ9**	**2PYA3**	**2PYC1**	**2PYA6**
Auto/Off	10 to 80 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	—	—	—	**2PXZ4**	**2PXY9**
Standard Action (Open on Rise), With Low Pressure Cut-Off											
Auto/Off/Start	5 to 65 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	**5B414**	**2FH06**	—	—	—
Auto/Off/Start	5 to 80 psi	20 to 30 psi	DPST	2 hp	3 hp	9013FYG	**2PXZ8**	**2PYA1**	**2PYA4**	**2PYC2**	**2PYA7**
Auto/Off/Start	10 to 80 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	—	—	—	—	**2PXZ1**
Standard Action (Open on Rise), With Pulsation Plug											
None	5 to 65 psi	15 to 30 psi	DPST	1 ½ hp	2 hp	9013FSG	**5B413**	**5B412**	**2PXY7**	—	—
None	5 to 80 psi	15 to 30 psi	DPST	2 hp	3 hp	9013GSG	**6B447**	**6B448**	**2PYC8**	**2PYD6**	**2PYD1**
None	5 to 80 psi	20 to 30 psi	DPST	2 hp	3 hp	9013FYG	**2DC10**	**2DC11**	**2PYA5**	**2PYC3**	**2PYA8**

Pressure Switch Range	Pressure Switch Differential	Pressure Switch Contact Form	HP @ 1-Phase 120V	HP @ 1-Phase 240V	Series	FACTORY ON/OFF SETTING 10/5 psi Item No.	22/16 psi Item No.	40/20 psi Item No.	50/30 psi Item No.	80/60 psi Item No.
Reverse Action (Close on Rise)										
4 to 45 psi	6 to 20 psi	SPST	1 hp	1 hp	9013FRG	**2PXX8**	**2PXX4**	**2PXX6**	—	—
4 to 45 psi	6 to 20 psi	DPST	1 hp	1 hp	9013FRG	**6B452**	**2FG93**	**2PXW7**	—	—
8 to 65 psi	15 to 30 psi	SPST	1 hp	1 hp	9013FRG	—	—	**2PXW2**	**2PXW4**	—
8 to 65 psi	15 to 30 psi	DPST	1 hp	1 hp	9013FRG	—	—	**5B416**	**2PXX2**	—
40 to 100 psi	20 to 30 psi	DPST	1 hp	1 hp	9013FRG	—	—	**1V630**	**2PXY4**	**2PXY2**
5 to 80 psi	15 to 30 psi	DPST	2 hp	3 hp	9013GSG	—	—	**2PYC6**	**6B437**	—
Reverse Action (Close on Rise), With Pulsation Plug										
5 to 80 psi	15 to 30 psi	DPST	2 hp	3 hp	9013GSG	—	—	**2PYC5**	—	**2PYD2**

5B340

Description	Mfr. Model	Item No.
Replacement Contact Kits		
For All FSG Series and FRG (20 to 100 psi range) Series Switches	9998PC241	**5B340**
For All FYG Series Switches	9998PC242	**5B339**
For All GSG Series Switches	9998PC205	**3AY95**

Description	Mfr. Model	Item No.
Replacement Unloaders		
9013 GHG Form X Only	9049A12	**2FJ18**
9013 FHG Form X Only	9049A56	**2FJ24**

12T081 12T084

Dayton® Water Pump Pressure Switches

- Diaphragm actuated
- Pressure range: 10 to 100 psi
- Differential pressure range: 15 to 50 psi
- 20/12A at 120/240V
- DPST
- ¼" FNPT
- NEMA 1 enclosure
- 3-yr. warranty

Rated 1½ HP at 1-phase, 120V; 2 HP at 1-phase, 230V. Temp. range: -22° to 250°F. Switches with low pressure cutoff will turn the pump off at approximately 10 psi below the cut-in setting. UL Listed and CSA Certified.

Manual Switch Action	Special Features	PRESSURE SWITCH FACTORY ON/OFF SETTING 20/40 psi Item No.	30/50 psi Item No.	40/60 psi Item No.
None	—	12T081	12T082	12T083
Auto/Off	—	12T087	12T088	12T089
Auto/Off/Reset	Low Pressure Cut-Off	12T084	12T085	12T086

MDR11 Series w/Unloader and Auto/Off Switch 3AFU8

MDR3 Series w/Unloader and Auto/Off Switch 3FWE3

Air Compressor Pressure Switches

For all global air compressor and water applications. Rotatable unloader valve simplifies retrofit onto compressors. Diaphragm actuated.

MDR11 SERIES

- DPST switch
- Rated 26A
- Temp. range: -22° to 257°F

UL Listed and CSA Certified.

MDR3 AND MDR3/OL SERIES

- 3PST Switch
- Rated 30A, 1-phase/24A, 3-phase
- Temp. range: -22° to 257°F

MDR-3/OL Series combines the function of a pressure switch and magnetic starter into 1 unit. Built-in overload protection. All are UL Listed, CSA and CE Certified.

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	RANGE: 20 to 105 psi Diff.: 20 to 45 psi Factory Preset 60/80 psi Item No.	80/100 psi Item No.	RANGE: 80 to 100 psi Diff.: 20 to 45 psi Factory Preset 80/100 psi Item No.	RANGE: 25 to 160 psi Diff.: 25 to 65 psi Factory Preset 60/80 psi Item No.	100/125 psi Item No.	105/135 psi	120/150 psi Item No.	RANGE: 40 to 175 psi Diff.: 30 to 65 psi Factory Preset 140/175 psi Item No.	160/200 psi Item No.
MDR11 Series, (1) Port, ¼ in FNPT												
No	None	2 hp	3 hp	3AFU5	3EYN4		Δ	3EYP3	3EYR2	3EYT1	3EYT9	3FWC5
No	Auto/Off	2 hp	3 hp	3AFU6	3EYN5		Δ	3EYP4	3EYR3	3EYT2	3EYU1	3FWC6
¼ in Compression	None	2 hp	3 hp	3AFU7	3EYN6		Δ	3EYP5	3EYR4	3EYT3	3EYU5	3FWC7
¼ in Compression	Auto/Off	2 hp	3 hp	3AFU8	3EYN7		Δ	3EYP6	3EYR5	3EYT4	3EYU6	3FWC8
MDR11 Series, (4) Port, ¼ in FNPT												
No	None	2 hp	3 hp	3AFU9	3EYN8		Δ	3EYP7	3EYR6	3EYT5	3EYU7	3FWC9
No	Auto/Off	2 hp	3 hp	3EYN1		3EYN9	Δ	3EYP8	3EYR7	3EYT6	3FWC2	3FWD1
¼ in Compression	None	2 hp	3 hp	3EYN2	3EYP1		Δ	3EYP9	3EYR8	3EYT7	3FWC3	3FWD2
¼ in Compression	Auto/Off	2 hp	3 hp	3EYN3	3EYP2		Δ	3EYR1	3EYR9	3EYT8	3FWC4	3FWD3

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	RANGE: 45 to 160 psi Diff.: 15 to 70 psi Factory Preset 60/80 psi Item No.	80/100 psi Item No.	100/125 psi Item No.	120/150 psi Item No.	RANGE: 60 to 232 psi Diff.: 30 to 110 psi Factory Preset 140/175 psi Item No.	160/200 psi Item No.	RANGE: 40 to 360 psi Diff.: 40 to 105 psi Factory Preset 215/250 psi Item No.	310/360 psi Item No.
MDR3 Series, (1) ⅜ in FNPT, (3) ¼ in FNPT, (4) Port													
No	None	2 hp	5 hp	7 ½ hp	15 hp	3FWE4	3FWF1	3FWF7	3FWG4	3FWH1	3FWH7	3FWJ4	3FWK1
¼ in Compression	None	2 hp	5 hp	7 ½ hp	15 hp	3FWE5	3FWF2	3FWF8	3FWG5	3FWH2	3FWH8	3FWJ5	3FWK2
¼ in Compression	Auto/Off	2 hp	5 hp	7 ½ hp	15 hp	3FWE6	3FWF3	3FWF9	3FWG6	3FWH3	3FWH9	3FWJ6	3FWK3
MDR3 Series, (1) Port, ⅜ in FNPT													
No	None	2 hp	5 hp	7 ½ hp	15 hp	3FWE1	3FWE7	3FWF4	3FWG1	3FWG7	3FWH4	3FWJ1	3FWJ7
¼ in Compression	None	2 hp	5 hp	7 ½ hp	15 hp	3FWE2	3FWE8	3FWF5	3FWG2	3FWG8	3FWH5	3FWJ2	3FWJ8
¼ in Compression	Auto/Off	2 hp	5 hp	7 ½ hp	15 hp	3FWE3	3FWE9	3FWF6	3FWG3	3FWG9	3FWH6	3FWJ3	3FWJ9

Pressure Switch Unloader	Manual Switch Action	HP @ 1-Phase 120V	HP @ 1-Phase 240V	HP @ 3-Phase 240V	HP @ 3-Phase 480V	Overload Protection	RANGE: 45 to 160 psi Diff.: 15 to 70 psi Factory Preset 80/100 psi Item No.	100/125 psi Item No.	120/150 psi Item No.	RANGE: 60 to 232 psi Diff.: 30 to 110 psi Factory Preset 140/175 psi Item No.	160/200 psi Item No.	RANGE: 40 to 360 psi Diff.: 40 to 105 psi Factory Preset 215/250 psi Item No.	310/360 psi Item No.
MDR3/OL Series with Oveload Protection, (1) ⅜ in FNPT, (3) ¼ in FNPT, (4) Port													
¼ in Compression	Auto/Off/Reset	⅛ hp	⅓ hp	1 hp	2 hp	2.5 to 4A	3FWK4	3FWL2	3FWL9	3AFZ7	3FWN5	3FWP3	3FWR1
¼ in Compression	Auto/Off/Reset	¼ hp	½ hp	1 ½ hp	3 hp	4 to 6.3A	3FWK5	3FWL3	3AFZ1	3AFZ8	3FWN6	3FWP4	3FWR2
¼ in Compression	Auto/Off/Reset	½ hp	1 ½ hp	3 hp	5 hp	6.3 to 10A	3FWK6	3FWL4	3AFZ2	3AFZ9	3FWN7	3FWP5	3FWR3
¼ in Compression	Auto/Off/Reset	1 hp	2 hp	5 hp	10 hp	10 to 16A	3FWK7	3FWL5	3AFZ3	3FWN1	3FWN8	3FWP6	3FWR4
¼ in Compression	Auto/Off/Reset	1 ½ hp	3 hp	—	—	16 to 20A	3FWK8	3FWL6	3AFZ4	3FWN2	3FWN9	3FWP7	3FWR5
¼ in Compression	Auto/Off/Reset	2 hp	—	7 ½ hp	15 hp	20 to 24A	3FWK9	3FWL7	3AFZ5	3FWN3	3FWP1	3FWP8	3FWR6
¼ in Compression	Auto/Off/Reset	2 hp	5 hp	—	—	22 to 30A	3FWL1	3FWL8	3AFZ6	3FWN4	3FWP2	3FWP9	3FWR7

Description	120V AC Item No.	208V AC Item No.	240V AC Item No.	277V AC Item No.	480V AC Item No.	600V AC Item No.
MDR3 Series Auxiliary Attachments						
Low Voltage Protection (Trips at <70% Rated Voltage)	3FWR8	3FWT1	3FWT3	3FWT5	3FWT7	3FWT9
Shunt Trip (Trips when Rated Voltage is Supplied)	3FWR9	3FWT2	3FWT4	3FWT6	3FWT8	3FWU1

Description	FOR MDR11 SERIES Item No.	FOR MDR3 AND MDR3/OL SERIES Item No.
Accessories		
Quick-Connect Unloader Valve (For ¼" Plastic Tubing Only)	3FWD4	3FWU2
Delayed Unloader Valve for Compressors with Difficulty Starting, ¼" Compression Fitting	3FWD5	3FWU3
Standard Replacement Unloader Valve, ¼" Compression Fitting	3FWD7	3FWU4
Replacement Cover, Standard	3FWD8	3FWU5
Replacement Cover, with Auto/Off Feature	3FWD9	3FWU6
Quick-Connect Electrical Terminal, ¼", Pkg. of 50	3FWD6	—
Compression Nut for 6mm Unloader Fitting, Pkg. of 10	3FWU7	3FWU7
Pipe Plugs, ¼" NPT (For Sealing Unused Manifold Ports), Pkg. of 10	3FWU8	3FWU8
Pipe Nipple, 2 x ¼" NPT (For Mounting Switch), Pkg. of 5	3FWU9	3FWU9

Description	Item No.
MDR3 Series Contact Blocks	
24 Amps, Standard Replacement	12T090
24 Amps, Standard Replacement with Auto/Off	12T091
MDR3 Series Thermal Overload Block	
0.63 to 1 Amps	12T092
1 to 1.6 Amps	12T093
1.6 to 2.5 Amps	12T094
2.5 to 4 Amps	12T095
4 to 6.3 Amps	12T096
6.3 to 10 Amps	12T097
10 to 16 Amps	12T098
16 to 20 Amps	12T099
20 to 24 Amps	12T101
30 Amps, 2-Pole	12T102

SQUARE D by Schneider Electric

Machine Tool, Dual Stage, and Differential Pressure Switches

- ¼" NPT female inlet, except male 3FJZ8
- Rated 10A
- Temp. range: -10° to 185°F

Can be applied to a wide variety of pneumatic and hydraulic machine and process applications to control or monitor system pressure and protect equipment. UL Listed and CSA Certified.

6B450

1V620

Range	Differential*	Actuation Type	NEMA Rating	Contact Form	Mfr. Model	Item No.
Pressure Switches						
1.5 to 75 psi	4.5 to 15 psi	Diaphragm	7, 9	SPDT	9012GAR4	**3FJZ6**
3 to 150 psi	9 to 35 psi	Diaphragm	7, 9	SPDT	9012GAR5	**3FJZ7**
0.2 to 10 psi	0.6 to 2 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW1	**6B450**
0.2 to 10 psi	0.6 to 2 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW1Z	**3FJZ8** †
1 to 40 psi	1.6 to 8 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW2	**5B427**
1.5 to 75 psi	3.5 to 15 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW4	**5B426**
3 to 150 psi	6 to 30 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW5	**5B425**
3 to 150 psi	6 to 30 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW5G17	**3FKA1** ‡
3 to 150 psi	6 to 30 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW5G18	**1V620** **
3 to 150 psi	6 to 30 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW5K1	**3FKA2** #
5 to 250 psi	10 to 49 psi	Diaphragm	13, 4, 4X	SPDT	9012GAW6	**5B423**
1.5 to 75 psi	3.5 to 15 psi	Diaphragm	13, 4, 4X	DPDT	9012GAW24	**3FJZ9**
3 to 150 psi	6 to 30 psi	Diaphragm	13, 4, 4X	DPDT	9012GAW25	**3KL86**
13 to 425 psi	16 to 90 psi	Diaphragm	13, 4, 4X	SPDT	9012GBW1	**5B422**
20 to 675 psi	27 to 130 psi	Diaphragm	13, 4, 4X	SPDT	9012GBW2	**3FKA3**
20 to 1000 psi	59 to 200 psi	Piston	13, 4, 4X	SPDT	9012GCW1	**5B421**
20 to 1000 psi	59 to 200 psi	Piston	13, 4, 4X	SPDT	9012GCW1G18	**1V622** **
90 to 2900 psi	170 to 560 psi	Piston	13, 4, 4X	SPDT	9012GCW2	**5B420**
170 to 5600 psi	289 to 1260 psi	Piston	13, 4, 4X	SPDT	9012GCW3	**3FKA4**
0.2 to 10 psi	0.6 to +/-0.1 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW1	**3FKA5**
1 to 40 psi	1.6 to 0.4 psi	Piston	13, 4, 4X	SPDT	9012GDW2	**3FKA6**
1.5 to 75 psi	3 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW4	**3FKA7**
3 to 150 psi	6 to 0.8 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW5	**3FKA8**
3 to 150 psi	6 to 0.8 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW5E3	**3FKA9** ††
3 to 150 psi	6 to 0.8 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW5K1	**3FKC2** #
5 to 250 psi	10 to 1.5 psi	Diaphragm	13, 4, 4X	SPDT	9012GDW6	**3FKC3**
20 to 1000 psi	59 psi	Diaphragm	13, 4, 4X	SPDT	9012GFW1	**3FKC4**
90 to 2900 psi	170 to 15 psi	Diaphragm	13, 4, 4X	SPDT	9012GFW2	**3FKC5**
90 to 2900 psi	170 to 15 psi	Diaphragm	13, 4, 4X	DPDT	9012GFW22	**3FKC6**
Dual Stage Pressure Switches						
1.5 to 75 psi	6 to 30 psi	Diaphragm	13, 4, 4X	SPDT	9012GKW4	**3FKC9**
3 to 150 psi	12 to 75 psi	Diaphragm	13, 4, 4X	SPDT	9012GKW5	**3FKD1**
5 to 250 psi	22 to 110 psi	Diaphragm	13, 4, 4X	SPDT	9012GKW6	**3FKD2**
Differential Pressure Switches						
0 to 175 psi	0.5 to 36 psi	Diaphragm	13, 4, 4X	SPDT	9012GGW4	**3FKC8**
0 to 175 psi	0.5 to 36 psi	Diaphragm	13, 4, 4X	DPDT	9012GGW24	**3FKC7**

Description	For Use With	Mfr. Model	Item No.
Repair Kits			
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GB, GE, GH Series Pressure Switches	9998PC178	**3CTT3**
Diaphragm Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GN Series Pressure Switches	9998PC265	**3CTT4**
Diaphragm Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC267	**3CTT5**
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC268	**3CTT6**
Actuator Assembly, Nitrile (Buna-N) Diaphragm	Square D 9012GA, GD, GG, GK, GN Series Pressure Switches	9998PC269	**3CTT7**
Piston Assembly, Stainless Steel Piston, Fluorocarbon (VITON) Diaphragm and O Ring	Square D 9012GC, GF, GJ, GQ Series Pressure Switches	9998PC271	**3CTT8**
Piston Assembly, Stainless Steel Piston, Fluorocarbon (VITON) Diaphragm and O Ring	Square D 9012GC, GF, GJ, GQ Series Pressure Switches	9998PC273	**3CTT9**
DPDT Snap Switch	Square D 9012GA, GB, GC, GD, GE, GF, GG, GJ Series Pressure Switches	9998PC314	**3CTU1**

** Differential adds to range setting and determines operating point on rising pressure. † ¼"-18 NPT external thread (male). ‡ With 120V neon pilot light. # External range adjustment slotted for a screwdriver. ** With 120VAC/DC red neon pilot light. †† Locks on rising pressure; manual reset only. ‡‡ With 24VDC LED pilot light.*

Condor

Pressure Control Switches

- NEMA B300 (5A/300V)
- 6A, 12VDC; 15A/250VAC resistive
- ½ HP at 120/240V
- Temp. range: -40° to 160°F
- ¼" FNPT
- IP54 enclosure (CE)
- NEMA 1 (UL)

Feature a clear cover with visible pressure scale. UL and C-UL Listed. CE Certified.

12T103

Range	Factory On/ Off Setting	Differential	Mfr. Model	Item No.
0.6 to 29 psi	8/20 psi	1 to 28 psi	MDR-F 2H-S UL	**12T103**
1 to 58 psi	15/40 psi	2.2 to 54 psi	MDR-F 4H-S UL	**12T104**
2.9 to 116 psi	30/60 psi	4.4 to 112 psi	MDR-F 8H-S UL	**12T105**
4.4 to 145 psi	60/75 psi	5.8 to 138 psi	MDR-F 10H-S UL	**12T106**
5.8 to 232 psi	80/160 psi	8.7 to 225 psi	MDR-F 16H-S UL	**12T107**
11.6 to 464 psi	145/290 psi	17.4 to 450 psi	MDR-F 32H-S UL	**12T108**
58 to 870 psi	290/580 psi	58 to 810 psi	MDR-F 60HH-S UL	**12T109**
116 to 1740 psi	580/1160 psi	116 to 1610 psi	MDR-F 120HH-S UL	**12T110**
203 to 3625 psi	1450/1900 psi	174 to 3450 psi	MDR-F 250HH-S UL	**12T111**

5LB44

ASHCROFT

Harsh Environment Pressure Switches

- ¼" FNPT inlet port
- Stainless steel pressure connection
- Viton® actuator seal
- Temp. range: 20° to 300°F

For harsh environments using pumps, compressors, hydraulic systems, and HVAC equipment. Watertight enclosure meets NEMA 3, 4, 4X, and 13, and IP66. Fixed deadband. Switch rated 15A at 125/250VAC; 0.5A at 125VDC.

Range	Contact Form	Mfr. Model	Item No.
1.5 to 15 psi	SPDT	B424VXCYLM15	**5LB41**
3 to 30 psi	SPDT	B424VXCYLM30	**5LB42**
6 to 60 psi	SPDT	B424VXCYLM60	**5LB43**
10 to 100 psi	SPDT	B424VXCYLM100	**5LB44**
20 to 200 psi	SPDT	B424VXCYLM200	**5LB45**
40 to 400 psi	SPDT	B424VXCYLM400	**5LB46**
60 to 600 psi	SPDT	B424VXCYLM600	**36K013**
100 to 1000 psi	SPDT	B424BXCYLM1000	**36K014**
300 to 3000 psi	SPDT	B424BXCYLM3000	**36K015**

1A352

SQUARE D by Schneider Electric

Industrial Pressure Switches

- SPDT switch
- ¼" female inlet, except male 3FJY9
- Rated 10A
- Ambient temp. range: -10° to 185°F
- Media temp. range: -40° to 250°F

Designed to control or monitor pressure using air, oil, water, or other compatible fluids. Easily adjustable range and differential. Buna N diaphragms. UL Listed and CSA Certified.

Range	Differential	Actuation Type	NEMA Rating	Mfr. Model	Item No.
0.2 to 10 psi	0.4 to 0.9 psi	Diaphragm	1	9012GNG1	**3FJY6**
1 to 40 psi	1.2 to 3.6 psi	Diaphragm	1	9012GNG3	**3FJY7**
1.5 to 75 psi	2.2 to 6.6 psi	Diaphragm	1	9012GNG4	**3FJY8**
1.5 to 75 psi	2.2 to 6.6 psi	Diaphragm	1	9012GNG4Z	**3FJY9**
3 to 150 psi	4.2 to 13.2 psi	Diaphragm	1	9012GNG5	**1A352**
5 to 250 psi	7.4 to 33.6 psi	Diaphragm	1	9012GNG6	**1A353**
5 to 250 psi	7.4 to 33.6 psi	Diaphragm	1	9012GNO6	**3FJZ1**
20 to 675 psi	19 to 58.8 psi	Diaphragm	1	9012GPG2	**3FKD3**
90 to 2900 psi	141 to 455 psi	Piston	1	9012GQG2	**3FJZ2**
170 to 5600 psi	200 to 950 psi	Piston	1	9012GQG3	**3FJZ3**
3 to 150 psi	4.2 psi	Diaphragm	1	9012GRG5	**3FJZ4**
1.5 to 75 psi	2.2 to 0.4 psi	Diaphragm	1	9012GRO4	**3FJZ5**

23Z333

Honeywell

Pressure Switches

- 5000 series
- ⅛-27" MNPT Port
- Temp. range: -40° to 250°F
- Glass reinforced polyester enclosure
- Screw terminal connection

Range	Factory On/ Off Setting	Contact Form	NEMA Rating	Mfr. Model	Item No.
1.1 to 3 psi	1.5/3 psi	SPST-NO	Not Rated	76051	**23Z327**
	1.5/3 psi	SPST-NC	Not Rated	76061	**23Z333**
3.1 to 7 psi	3.1/7 psi	SPST-NO	Not Rated	76575	**23Z336**
	4 psi	SPST-NC	Not Rated	76577	**23Z337**
8 to 13 psi	10 psi	SPST-NO	Not Rated	76576	**23Z343**
	8/13 psi	SPDT-NO/NC	Not Rated	76580	**23Z345**
14 to 24 psi	14/23 psi	SPST-NO	Not Rated	76052	**23Z328**
	15/24 psi	SPDT-NO/NC	Not Rated	76072	**23Z341**
25 to 50 psi	35 psi	SPST-NO	Not Rated	76053	**23Z329**
51 to 90 psi	60/90 psi	SPST-NO	Not Rated	76054	**23Z330**
	60 psi	SPST-NC	Not Rated	76064	**23Z335**
	60 psi	SPDT-NO/NC	Not Rated	76074	**23Z342**
91 to 150 psi	100 psi	SPST-NO	Not Rated	76055	**23Z346**
Pressure Switch Boot Direct Action Blade Contact				79380	**23Z347**

35T575

ifm efector

Pressure Transmitters

- ¼" NPT port

Provide high-burst and overpressure protection and exceptional reliability. Feature stainless steel housing. 0.15% of full range repeatability. Models available for vacuum, pneumatic, hydraulic, and hydrostatic level applications.

Range	9.6 to 32V DC, 4 to 20mA DC Output Mfr. Model	Item No.	16 to 32V DC, 0 to 10V DC Output Mfr. Model	Item No.
¼ in MNPT				
-14.5 psi to 0 psi	PX3229	**35T575**	PX9119	**35T587**
0 to 100 in wc	PX3228	**35T576**	PX9118	**35T588**
0 to 15 psi	PX3227	**35T577**	PX9117	**35T589**
0 to 30 psi	PX3226	**35T578**	PX9116	**35T590**
0 to 100 psi	PX3224	**35T579**	PX9114	**35T591**
0 to 150 psi	PX3244	**35T580**	—	—
0 to 200 psi	PX3234	**35T581**	PX9134	**35T592**
0 to 250 psi	PX3233	**35T582**	—	—
0 to 500 psi	PX3223	**35T583**	—	—
0 to 1000 psi	PX3222	**35T584**	PX9112	**35T593**
0 to 3000 psi	PX3111	**35T585**	PX9111	**35T594**
0 to 5000 psi	PX3220	**35T586**	PX9110	**35T595**

Float Switches

SQUARE D by Schneider Electric

- Rated up to 5 HP at 230VAC
- 2-pole
- Rated 10A, 600VAC
- Ambient temp. range: -22° to 220°F
- Conduit entry: NEMA 1, ½"; NEMA 4, 7, 9, ¾"

Designed to control small motor loads directly. HP rating: 2 HP at 115V, 3 HP at 230V 1-phase, 5 HP at 230V 3-phase. Side-mount switches include external pointer, nameplate, rod, and float. Class 9036 switches are single-lever operated.

2FH59

Description	NEMA 1 Close On Rise Mfr. Model	Item No.	NEMA 1 Open On Rise Mfr. Model	Item No.	NEMA 4 Close On Rise Mfr. Model	Item No.	NEMA 7, 9 Close On Rise Mfr. Model	Item No.
Class 9036 Open Tank Float Switches								
Top Mount	9036DG2	**2FH59**	9036DG2R	**2FH61**	9036DW31	**2FH65**	9036DR31	**2FH62**
Top Mount, Compensating Spring	9036DG2C	**2FH60**	9036DG2CR	**3DZR9**	9036DW31C	**3DZU1**	9036DR31C	**3DZT9**
Top Mount, Flange Mount	9036DG2S1	**2FP39**	—	—	—	—	—	—
High Force, Top Mount	9036GG2	**2FH68**	9036GG2R	**2FH70**	9036GW1	**2FH72**	9036GR1	**3DZU6**
High Force, Top Mount, Compensating Spring	9036GG2C	**2FH69**	—	—	—	—	—	—
Class 9038 Open Tank Alternators								
Single Lever	9038AG1	**2FJ01**	—	—	9038AW1	**2FJ05**	9038AR1	**3DZY1**
Single Lever, Compensating Spring	9038AG1C	**3DZX5**	—	—	—	—	—	—
Class 9038 Closed Tank Alternators								
Top Mount, 2⅝" Hinge Post, Min. Water Level	9038DG7	**2FJ15**	—	—	—	—	—	—
Top Mount, 2⅝" Hinge Post, Max. Water Level	9038DG8	**2FJ16**	—	—	9038DW8	**3EAA1**	9038DR8	**3DZZ9**
Top Mount, 4¹¹⁄₁₆" Hinge Post, Min. Water Level	9038DG9	**2FJ17**	—	—	—	—	—	—
Class 9037 Closed Tank Float Switches								
Top Mount, 2⅝" Hinge Post, Min. Water Level	9037EG8	**2FH77**	9037EG8R1F1	**3DZV3**	—	—	—	—
Top Mount, 4¹¹⁄₁₆" Hinge Post, Min. Water Level	9037EG10	**3DZV2**	—	—	—	—	—	—
Top Mount, 2⅝" Hinge Post, Max. Water Level	9037EG9	**2FH78**	—	—	9037EW9	**3DZV4**	—	—
Accessories								
Float Kit, 7" Tapped 304SS Float, 5' Brass Rod, 2 Stops							9049A6	**2FJ26**
Float Kit, 7" Center Hole 304SS Float, 5' Brass Rod, 4 Stops							9049A6C	**3EAA5**
Float Kit, 7" Center Hole 316SS Float, 5' SS Rod, 4 Stops							9049A6CS	**2FJ28**
Float Kit, 7" Center Hole 316SS Float, 5' Brass Rod, 2 Stops							9049A6S	**3EAA6**

2FH90

Float Rod Angle	Min. Water Level Adjustment	Max. Water Level Adjustment	NEMA 1 Close On Rise Mfr. Model	Item No.	NEMA 1 Open On Rise Mfr. Model	Item No.	NEMA 4 Close On Rise Mfr. Model	Item No.
Class 9037 Closed Tank Float Switches, Right Float Position								
45°	2	5	9037HG33	**2FH90**	—	—	—	—
90 °	2	5	9037HG35	**2FH93**	—	—	9037HW35	**3DZX4**
90 °	2	7	9037HG37	**2FH96**	—	—	—	—
90 °	2	11½	9037HG31	**2FH85**	9037HG31R	**3DZV8**	—	—
Class 9038 Closed Tank Alternators, Right Float Position								
90 °	6½	13	9038CG31	**2FJ08**	—	—	9038CW31	**3DZZ5**
90 °	4	7¾	9038CG33	**2FJ10**	—	—	9038CW33	**3DZZ6**
Class 9037 Closed Tank Float Switches, Left Float Position								
45 °	2	5	9037HG34	**2FH92**	9037HG34R	**3DZW5**	9037HW34	**3DZX3**
90 °	2	5	9037HG36	**2FH94**	—	—	—	—
90 °	2	7	9037HG38	**3DZX1**	—	—	—	—
90 °	2	8¼	9037HG30	**2FH83**	9037HG30R	**3DZV6**	9037HW30	**3DZX2**
90 °	2	11½	9037HG32	**2FH86**	—	—	—	—
Class 9038 Closed Tank Alternators, Left Float Position								
90 °	6½	13	9038CG32	**2FJ09**	—	—	9038CW32	**2FJ14**
90 °	4	7¾	9038CG34	**3DZY8**	—	—	—	—
Class 9037 Closed Tank Float Switches, Right Float Position								
45 °	2	5	—	—	9037HG33R	**2FH91**	9037HW33	**2FH98**
Class 9038 Closed Tank Alternators, Left Float Position								
90 °	4¾	9¼	9038CG36	**2FJ11**	—	—	—	—
Accessories								
Rod, SS, 1¾" Long							9049ER1	**3EAA7**
Rod, SS, 12¼" Long							9049ER12	**3EAA8**
Rod, SS, 3¼" Long							9049ER3	**3EAA9**
Rod, SS, 5¼" Long							9049ER5	**3EAC1**
Float 2.5" dia., Length 7", 304SS							9049HF3	**3EAC3**
Float 3.62" dia., Length 4½", 304SS							9049EF1	**2FJ35**

Vacuum Switches

SQUARE D by Schneider Electric

- Diaphragm actuated
- Rated 10A, 600VAC
- Ambient temp. range: -10° to 185°F
- Media temp. range: -40° to 250°F

Monitor and control vacuum conditions in sensitive control applications. UL Listed, CSA Certified. GAW series is CE Certified.

SERIES GVG

Designed as companions to Class 9036 and Class 9037 Type GG float switches commonly used on vacuum heating pumps. HP rating: 2 HP at 110VAC, 3 HP at 220VAC, 5 HP at 440-550VAC.

GAW Series

GVG Series

Range	Differential	Port Type	Features	Contact Form	Mfr. Model	Item No.
Series 9013GAW						
0 to 25 in Hg	5 to 20 in Hg	1-Port ¼-18 in FNPT	—	SPDT	9016GAW2	**2FH46**
0 to 28.3 in Hg	0.8 to 9 in Hg	1-Port ¼-18 in FNPT	—	DPDT	9016GAW21	**2FH47**
0 to 28.3 in Hg	1 to 9 in Hg	1-Port ¼-18 in FNPT	Mounting Feet	DPDT	9016GAW21F	**3HAM1**
0 to 28.7 in Hg	0.8 to 9 in Hg	1-Port ¼-18 in FNPT	—	SPDT	9016GAW1	**2FH45**
0 to 28.7 in Hg	0.8 to 9 in Hg	1-Port ¼-18 in FNPT	Mounting Feet	SPDT	9016GAW1F	**3HAL7**
0 to 28.7 in Hg	0.8 to 9 in Hg	1-Port ½-14 in MNPT, 1-Port ¼-18 in FNPT	½"-14 NPT external, ¼"-18 NPT internal	SPDT	9016GAW1Z16	**3HAL9**
Series 9013GVG						
0 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	—	DPST	9016GVG1J09	**2FH48**
0 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	—	DPST	9016GVG1J10	**2FP36**
0 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	—	DPST	9016GVG1J13	**2FP38**
5 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	3 Way Lever, Continuous, Namplate Marked: Float Only, Vacuum and Float	DPST	9016GVG1J09E	**3HAM3**
5 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	3 Way Lever, Continuous, Marked: Float Only, Vacuum and Float, With Mounting Bracket	DPST	9016GVG1J09EF	**3HAM4**
5 to 25 in Hg	5 to 10 in Hg	2-Port ¼-18 in MNPT	¼ in male pipe thread on pressure connection	DPST	9016GVG1J09Z	**3HAM5**
5 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	With Mounting Bracket	DPST	9016GVG1J10F	**3HAM6**
5 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	—	DPST	9016GVG1J12	**3HAM7**
5 to 25 in Hg	5 to 10 in Hg	1-Port ¼-18 in FNPS	3 Way Lever, Continuous, Namplate Marked: Float Only, Vacuum and Float	DPST	9016GVG1J13E	**3HAM8**

Screw Cover Pull Boxes

Suitable for use as a junction or pull box in commercial and industrial applications. UL Listed and CSA Certified.

NEMA 1

Feature mounting holes on back of box. Cover design allows easy removal without extracting cover screws.

NEMA 3R

Provide protection in outdoor applications against rain, sleet, and snow, or indoors against dripping water. Use as wiring box or junction box. Feature slip-on cover that is securely fastened with screws. Drip shield top and smooth seamless sides and front.

NEMA 1
Galvanized
6JYU7

NEMA 3R
Painted
1ZHH6

			NO KNOCKOUTS				WITH KNOCKOUTS			
			Painted		Galvanized		Painted		Galvanized	
H	W	D	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.	Wiegmann Item No.	Hoffman Item No.
NEMA 1										
4.0 in	4.0 in	3.0 in	—	—	—	—	—	—	—	32FG37
4.0 in	4.0 in	4.0 in	1ZHK7	32FG35	6JYU7	32FG34	4KP26	32FG32	6JZA5	32FG33
6.0 in	6.0 in	3.0 in	—	—	—	—	—	32FG36	—	—
6.0 in	4.0 in	4.0 in	4DMU2	32FG39	6JYX9	32FG38	4DMU1	—	6JYX8	—
6.0 in	6.0 in	4.0 in	1ZHK8	32FG43	6JYU8	32FG42	4KP27	32FG40	6JZA6	32FG41
6.0 in	6.0 in	6.0 in	4DMU3	32FG47	6JYY0	32FG46	1ZHK9	32FG44	6JYU9	32FG45
8.0 in	6.0 in	4.0 in	4DMU6	32FG50	6JYY3	—	4DMU4	32FG48	6JYY1	32FG49
8.0 in	8.0 in	4.0 in	1ZHL1	32FG57	6JYV0	32FG56	4KP28	32FG54	6JZA7	32FG55
8.0 in	6.0 in	6.0 in	4DMU7	32FG53	6JYY4	32FG52	4DMU5	32FG51	6JYY2	—
8.0 in	8.0 in	6.0 in	—	32FG61	6JYV1	32FG60	4KP29	32FG58	6JZA8	32FG59
8.0 in	8.0 in	8.0 in	4DMT6	32FG64	6JYX6	32FG63	4DMT1	32FG62	6JYX1	—
8.13 in	8.13 in	6 in	1ZHL2	—	—	—	—	—	—	—
10.0 in	8.0 in	4.0 in	4DMU8	32FG67	6JYY5	32FG66	4DMR6	32FH41	6JYW7	32FG65
10.0 in	10.0 in	4.0 in	1ZHL3	32FG75	6JYV2	32FG74	4KP30	32FG72	6JZA9	32FG73
10.0 in	8.0 in	6.0 in	4DMU9	32FG71	6JYY6	32FG70	4DMR9	32FG68	6JYX0	32FG69
10.0 in	10.0 in	6.0 in	1ZHL4	32FG79	6JYV3	32FG78	4KP31	32FG76	6JZC0	32FG77
12.0 in	8.0 in	4.0 in	—	—	—	—	—	32FH42	—	—
12.0 in	10.0 in	4.0 in	4DMV2	—	6JYY8	32FG82	4DMR7	32FG80	6JYW8	32FG81
12.0 in	12.0 in	4.0 in	1ZHL5	32FG89	6JYV4	32FG88	4KP32	32FG86	6JZC1	32FG87
12.0 in	10.0 in	6.0 in	4DMV3	32FG85	6JYY9	32FG84	4DMV1	—	6JYY7	32FG83
12.0 in	12.0 in	6.0 in	1ZHL6	32FG93	6JYV5	32FG92	4KP33	32FG90	6JZC2	32FG91
12.0 in	12.0 in	8.0 in	4DMV5	32FG97	6JYZ1	32FG96	4DMV4	32FG94	6JYZ0	32FG95
15.0 in	12.0 in	4.0 in	4DMV8	—	6JYZ4	—	4DMV6	—	6JYZ2	—
15.0 in	15.0 in	4.0 in	4DMT3	32FH06	6JYX3	32FH05	4DMR8	—	6JYW9	—
15.0 in	12.0 in	6.0 in	4DMV9	—	6JYZ5	—	4DMV7	—	6JYZ3	—
15.0 in	15.0 in	6.0 in	1ZHL8	—	6JYV7	—	1ZHL7	—	6JYV6	—
16.0 in	12.0 in	4.0 in	—	32FH10	—	32FG99	—	32FH43	—	32FG98
16.0 in	16.0 in	4.0 in	6HYF8	—	6HYG0	—	6HYF7	—	6HYF9	—
16.0 in	12.0 in	6.0 in	—	32FH04	—	32FH03	—	32FH01	—	32FH02
16.0 in	15.0 in	6.0 in	—	—	—	—	—	—	—	32FH08
16.0 in	16.0 in	6.0 in	—	32FH44	—	32FH09	—	32FH07	—	—
18.0 in	12.0 in	4.0 in	—	—	—	—	—	32FH45	—	—
18.0 in	18.0 in	4.0 in	1ZHN1	32FH13	6JYV9	32FH59	1ZHL9	32FH11	6JYV8	32FH12
18.0 in	12.0 in	6.0 in	—	32FH47	—	—	—	32FH46	—	—
18.0 in	18.0 in	6.0 in	1ZHN3	32FH17	6JYW1	32FH16	1ZHN2	32FH14	6JYW0	32FH15
18.0 in	18.0 in	8.0 in	4DMW2	32FH20	6JYZ7	32FH19	4DMW1	—	6JYZ6	—
18.0 in	18.0 in	10.0 in	—	—	—	—	—	32FH18	—	—
24.0 in	12.0 in	4.0 in	—	32FH22	—	—	—	—	—	—
24.0 in	18.0 in	4.0 in	4DMW6	—	6JZA1	—	4DMW3	—	6JYZ8	—
24.0 in	24.0 in	4.0 in	4DMT4	32FH28	6JYX4	32FH27	—	32FH21	—	—
24.0 in	18.0 in	6.0 in	4DMW7	32FH24	6JZA2	—	4DMW4	32FH48	6JYZ9	32FH23
24.0 in	24.0 in	6.0 in	1ZHN5	32FH30	6JYW3	32FH29	1ZHN4	32FH51	6JYW2	—
24.0 in	18.0 in	8.0 in	4DMW8	—	6JZA3	32FH26	4DMW5	32FH25	6JZA0	—
24.0 in	20.0 in	8.0 in	—	32FH32	—	—	—	—	—	—
24.0 in	24.0 in	8.0 in	1ZHN7	32FH52	6JYW5	32FH61	1ZHN6	32FH31	6JYW4	—
24.0 in	24.0 in	10.0 in	—	32FH49	—	—	—	—	—	—
24.0 in	24.0 in	12.0 in	—	32FH50	—	32FH60	—	—	—	—
30.0 in	24.0 in	6.0 in	4DMT5	32FH35	6JYX5	32FH34	4DMW9	32FH33	6JZA4	—
30.0 in	24.0 in	8.0 in	4DMT7	32FH37	6JYX7	32FH36	4DMT2	—	6JYX2	—
30.0 in	30.0 in	8.0 in	1ZHN8	32FH54	6JYW6	32FH38	—	—	—	—
30.0 in	30.0 in	12.0 in	—	32FH53	—	—	—	—	—	—
36.0 in	36.0 in	6.0 in	—	32FH56	—	—	—	—	—	—
36.0 in	24.0 in	8.0 in	—	32FH39	—	—	—	—	—	—
36.0 in	36.0 in	8.0 in	—	32FH57	—	32FH63	—	—	—	—
36.0 in	36.0 in	12.0 in	—	32FH55	—	32FH62	—	—	—	—
48.0 in	48.0 in	12.0 in	—	32FH58	—	—	—	—	—	—
NEMA 3R										
4.0 in	4.0 in	4.0 in	—	—	6HYG1	—	1ZHH5	32FH66	6JZC3	32FG03
6.0 in	4.0 in	4.0 in	—	—	6HYG2	—	3A909	—	6JZE4	32FG04
6.0 in	6.0 in	4.0 in	—	32FH96	6HYG3	32FG18 *	1ZHH6	32FH67	6JZC4	—
6.0 in	6.0 in	6.0 in	—	32FH97	6HYG5	—	1ZHH7	32FH68	6JZC5	32FG05
8.0 in	6.0 in	4.0 in	—	—	6HYG4	—	6C725	32FH98	6JZF2	—
8.0 in	8.0 in	4.0 in	—	32FH99	6HYG7	32FG19 *	3A910	32FH69	6JZE5	32FG06
8.0 in	6.0 in	6.0 in	—	—	6HYG6	—	6C727	—	6JZF4	—
8.0 in	8.0 in	6.0 in	—	32FJ01	6HYH0	32FG20 *	1ZHH8	32FH70	6JZC6	32FG07
10.0 in	8.0 in	4.0 in	—	—	6HYG8	—	3A911	32FH80	6JZE6	—
10.0 in	10.0 in	4.0 in	—	32FH78	6HYH2	—	1ZHH9	32FH71	6JZC7	32FG08
10.0 in	8.0 in	6.0 in	—	—	6HYG9	—	6C728	32FH81	6JZF5	—
10.0 in	10.0 in	6.0 in	—	32FH79	6HYH3	—	1ZHJ1	32FH72	6JZC8	32FG09
12.0 in	10.0 in	4.0 in	—	—	6JYR8	—	6C726	—	6JZF3	—
12.0 in	12.0 in	4.0 in	—	32FH83	6JYT0	32FG14 *	1ZHJ2	32FH73	6JZC9	32FG10
12.0 in	8.0 in	6.0 in	—	—	6HYH1	—	—	—	—	—
12.0 in	10.0 in	6.0 in	—	—	6JYR9	—	3A912	32FH82	6JZE7	—
12.0 in	12.0 in	6.0 in	—	32FH85	6JYT1	32FG15 *	1ZHJ3	32FH84	6JZD0	32FG11
12.0 in	12.0 in	8.0 in	4DMR4	32FH86	—	—	—	32FH74	6JZE8	32FG12
15.0 in	12.0 in	4.0 in	—	—	6JYT3	—	2W833	—	6JZE3	—
15.0 in	12.0 in	6.0 in	—	—	6JYT4	—	4DMT8	—	6JZF0	—
16.0 in	12.0 in	6.0 in	—	—	—	—	—	32FH87	—	—
18.0 in	18.0 in	4.0 in	—	—	6JYT7	—	—	—	—	—
18.0 in	12.0 in	6.0 in	—	—	6JYT5	—	—	32FH88	—	—
18.0 in	15.0 in	6.0 in	—	—	6JYT6	—	6C729	—	6JZF6	—
18.0 in	18.0 in	6.0 in	—	32FH89	6JYT8	32FG16 *	1ZHJ4	32FH75	6JZD1	32FG13
18.0 in	15.0 in	8.0 in	4DMR5	—	—	—	—	—	6JZE9	—
18.0 in	18.0 in	8.0 in	—	32FH90	—	—	4DMT9	32FH76	6JZF1	—
24.0 in	18.0 in	6.0 in	—	—	6JYT9	—	—	—	—	—
24.0 in	24.0 in	6.0 in	—	32FH94	6JYU0	—	—	32FH93	—	—
24.0 in	24.0 in	8.0 in	6HYC1	32FH95	—	32FG17 *	—	32FH77	—	—
24.0 in	24.0 in	12.0 in	—	32FH92	—	—	—	32FH91	—	—
30.0 in	30.0 in	12.0 in	—	—	—	—	—	32FH64	—	—
36.0 in	36.0 in	12.0 in	—	—	—	—	—	32FH65	—	—

** Rated NEMA 3, 12*

		NEMA 1						NEMA 3R					
		Wiegmann			Hoffman			Wiegmann			Hoffman		
H	W	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.	Interior Panel*	D	Item No.
Without Knockouts													
6.0 in	6.0 in	1ZHF9	4.0 in	**1ZHF6**	32FT21	4.0 in	**32FA83**	—	—	—	—	—	—
8.0 in	6.0 in	2W821	4.0 in	**2W818**	32FT22	4.0 in	**32FA84**	—	—	—	—	—	—
8.0 in	6.0 in	2W821	6.0 in	**6HXY6**	—	—	—	—	—	—	—	—	—
8.0 in	8.0 in	6C754	4.0 in	**6HXY7**	32FT23	4.0 in	**32FA85**	—	—	—	—	—	—
8.0 in	8.0 in	6C754	6.0 in	**6HXY8**	32FT23	6.0 in	**32FA86**	—	—	—	—	—	—
10.0 in	8.0 in	3A904	4.0 in	**3A903**	32FT05	4.0 in	**32FA73**	—	—	—	—	—	—
10.0 in	8.0 in	3A904	6.0 in	**6HXY9**	32FT05	6.0 in	**32FA74**	—	—	—	—	—	—
10.0 in	10.0 in	31LA20	4.0 in	**6HXZ0**	32FT04	4.0 in	**32FA71**	—	—	—	—	—	—
10.0 in	10.0 in	31LA20	6.0 in	**1ZHF7**	32FT04	6.0 in	**32FA72**	—	—	—	—	—	—
12.0 in	10.0 in	3A937	4.0 in	**6HXZ1**	32FT06	6.0 in	**32FA75**	—	—	—	—	—	—
12.0 in	10.0 in	3A937	6.0 in	**3A905**	—	—	—	—	—	—	—	—	—
12.0 in	12.0 in	2W822	4.0 in	**2W819**	32FT07	4.0 in	**32FA76**	—	—	—	—	—	—
12.0 in	12.0 in	2W822	6.0 in	**1ZHF8**	32FT07	6.0 in	**32FA70**	—	—	—	—	—	—
12.0 in	12.0 in	2W822	8.0 in	**6HXZ2**	32FT07	8.0 in	**32FA77**	—	—	—	—	—	—
14.0 in	12.0 in	2W823	6.0 in	**2W820**	32FT08	4.0 in	**32FA78**	—	—	—	—	—	—
14.0 in	12.0 in	2W823	8.0 in	**3A940**	32FT08	6.0 in	**32FA79**	—	—	—	—	—	—
14.0 in	12.0 in	—	—	—	32FT08	8.0 in	**32FA80**	—	—	—	—	—	—
16.0 in	12.0 in	31LA17	6.0 in	**6HXZ3**	32FT09	8.62 in	**32FA54**	2W827	6.0 in	**3A921**	32FT25	6.0 in	**32FC28**
16.0 in	12.0 in	Included	6.0 in	**3A906**	32FT10	6.0 in	**32FA81**	—	—	—	—	—	—
16.0 in	12.0 in	—	—	—	32FT09	6.62 in	**32FA53**	—	—	—	—	—	—
16.0 in	16.0 in	Included	6.0 in	**6HXZ4**	32FT11	6.62 in	**32FA55**	31LA18	6.0 in	**6HYA7**	32FT28	6.0 in	**32FC29**
18.0 in	18.0 in	—	—	—	—	—	—	—	—	—	32FT30	6.0 in	**32FC37**
18.0 in	18.0 in	—	—	—	—	—	—	—	—	—	32FT30	10.0 in	**32FC36**
20.0 in	12.0 in	—	—	—	Mfr. No. A20N12P	6.0 in	**32FA82**	—	—	—	—	—	—
20.0 in	16.0 in	Included	6.0 in	**3A907**	32FT12	6.62 in	**32FA56**	2W828	6.0 in	**6C718**	32FT31	6.0 in	**32FC30**
20.0 in	16.0 in	Included	8.0 in	**3A908**	32FT12	8.62 in	**32FA57**	—	—	—	—	—	—
20.0 in	20.0 in	Included	6.0 in	**6HXZ5**	32FT13	6.62 in	**32FA51**	3A922	8.0 in	**5W278**	32FT35	8.0 in	**32FC31**
20.0 in	20.0 in	Included	8.0 in	**6HXZ6**	32FT13	8.62 in	**32FA58**	—	—	—	—	—	—
24.0 in	16.0 in	—	—	—	32FT14	6.62 in	**32FA59**	—	—	—	—	—	—
24.0 in	20.0 in	Included	6.0 in	**6C714**	32FT15	6.62 in	**32FA60**	2W829	8.0 in	**6HYA8**	32FT40	8.0 in	**32FC32**
24.0 in	20.0 in	Included	8.0 in	**5W275**	32FT15	8.62 in	**32FA61**	—	—	—	—	—	—
24.0 in	24.0 in	34C523	6.0 in	**6HXZ7**	32FT16	6.62 in	**32FA62**	2W829	8.0 in	**4KP25**	32FT44	10.0 in	**32FC38**
24.0 in	24.0 in	Included	8.0 in	**6HXZ8**	32FT16	8.62 in	**32FA63**	—	—	—	32FT44	8.0 in	**32FC33**
30.0 in	24.0 in	Included	8.0 in	**6C715**	32FT17	6.62 in	**32FA64**	3A924	8.0 in	**6C719**	32FT50	8.0 in	**32FC34**
30.0 in	24.0 in	Included	10.0 in	**5W276**	32FT17	8.62 in	**32FA65**	—	—	—	—	—	—
30.0 in	30.0 in	—	—	—	32FT18	8.62 in	**32FA66**	31LA19	12.0 in	**6HYA9**	32FT54	12.0 in	**32FC39**
36.0 in	24.0 in	Included	8.0 in	**6C716**	32FT19	6.62 in	**32FA67**	3A932	12.0 in	**6C720**	32FT55	12.0 in	**32FC35**
36.0 in	24.0 in	—	—	—	32FT19	8.62 in	**32FA52**	—	—	—	—	—	—
36.0 in	30.0 in	None	12.0 in	**5W277**	32FT20	6.62 in	**32FA68**	—	—	—	32FT57	12.0 in	**32FC40**
36.0 in	30.0 in	—	—	—	32FT20	8.62 in	**32FA69**	—	—	—	—	—	—
36.0 in	36.0 in	—	—	—	—	—	—	34C493	12.0 in	**6HYC0**	32FT61	12.0 in	**32FC41**
With Knockouts													
6.0 in	6.0 in	—	4.0 in	**4KN71**	—	—	—	—	—	—	32FT21	4.0 in	**32FC52**
8.0 in	6.0 in	—	—	—	—	—	—	2W821	4.0 in	**3A913**	32FT22	4.0 in	**32FC53**
8.0 in	8.0 in	—	4.0 in	**4KN72**	—	—	—	6C754	4.0 in	**6HYA5**	32FT23	6.0 in	**32FC47**
8.0 in	8.0 in	—	—	—	—	—	—	6C754	6.0 in	**6C717**	—	—	—
10.0 in	8.0 in	—	—	—	—	—	—	3A904	6.0 in	**1ZHH4**	32FT05	6.0 in	**32FC49**
12.0 in	10.0 in	—	4.0 in	**6HXV6**	—	—	—	3A937	6.0 in	**3A939**	32FT06	6.0 in	**32FC50**
12.0 in	12.0 in	—	4.0 in	**4KN73**	—	—	—	2W822	6.0 in	**6HYA6**	32FT07	10.0 in	**32FC51**
12.0 in	12.0 in	—	6.0 in	**1ZGY7**	—	—	—	—	—	—	32FT07	6.0 in	**32FC48**
18.0 in	12.0 in	—	4.0 in	**6HXV7**	—	—	—	—	—	—	—	—	—
18.0 in	15.0 in	—	4.0 in	**6HXV8**	—	—	—	—	—	—	—	—	—
18.0 in	18.0 in	—	6.0 in	**6HXV9**	—	—	—	—	—	—	—	—	—
24.0 in	18.0 in	—	6.0 in	**6HXW0**	—	—	—	—	—	—	—	—	—

** Panel ordering information for Wiegmann is on page 292; ordering information for Hoffman is on page 289.*

HUBBELL WIEGMANN Hoffman

Hinged Cover NEMA 1 and 3R Enclosures

Steel with ANSI 61 gray polyester powder-coated finish inside and out. NEMA 1 enclosures include a flush style latch and NEMA 3R enclosures have a padlockable hasp. Optional interior panels are available, see table below. UL Listed and CSA Certified.

NEMA 1
2W818

NEMA 1
4KN71

NEMA 3R
32FC28

2VE20

NEMA 1 Wireway Duct and Fittings

HUBBELL WIEGMANN

- 16-ga. carbon steel bodies
- ANSI 61 gray polyester powder-coated finish

Straight wireway duct protects electrical wiring in locations where dust, dirt, oil, and water are not serious problems. Hinged covers allow easy lay-in of wires. Doors can be hung in open position or removed from tub. UL Listed and CSA Certified.

	4 in x 4 in WIREWAY		6 in x 6 in WIREWAY	
L	No Item No.	Yes Item No.	No Item No.	Yes Item No.
12 in	**2VE22**	**2VE20**	**2VE36**	**2VE35**
24 in	**2VE24**	**2VE23**	**2VE38**	**2VE37**
36 in	**2VE26**	**2VE25**	**2VE40**	**2VE39**
48 in	**2VE28**	**2VE27**	**2VE42**	**2VE41**
60 in	**2VE30**	**2VE29**	**2VE44**	**2VE43**
72 in	**2VE32**	**2VE31**	**2VE46**	**2VE45**
10 ft	**2VE34**	**2VE33**	**2VE48**	**2VE47**

Item	4 in x 4 in WIREWAY FITTINGS Item No.	6 in x 6 in WIREWAY FITTINGS Item No.
Telescope Fitting, Adjustable 9.50 to 15.00 in Length	**2VE49**	**2VE50**
Bracket Hanger, Hangs From Overhead	**2VE51**	**2VE52**
Connector	**2VE53**	**2VE54**
End Cap	**2VE55**	**2VE56**
45° Elbow	**2VE57**	**2VE59**
90° Elbow	**2VE58**	**2VE60**
Panel Adapter	**2VE61**	**2VE62**
90° Sweep Elbow	**2VE64**	**2VE65**
Tee	**2VE66**	**2VE67**
Cross	**2VE68**	**2VE69**
Reducer, Reduces From 6x6 Sq In To 4x4 Sq In	—	**2VE63**

6HYD5

HUBBELL WIEGMANN

NEMA 3R Wiring Troughs

Protect wiring in outdoor installations from rain, sleet, and snow, or indoors against dripping water. Feature drip shield top and smooth seamless sides that prevent rain, snow, and sleet from entering enclosure. Embossed mounting holes on back. Slip-on removable cover is fastened with screws located along the bottom edge. Knockouts are located on bottom of enclosure. Gray polyester powder-coated finish or unpainted galvanized steel. UL Listed and CSA Certified.

			ANSI 61 POLYESTER POWDER		GALVANIZED	
H	W	D	No Knockouts Item No.	With Knockouts Item No.	No Knockouts Item No.	With Knockouts Item No.
4.0 in	4.0 in	12.0 in	**6HYE6**	**1ZHJ5**	**6HYD5**	**6JZD2**
4.0 in	4.0 in	24.0 in	**6HYE7**	**1ZHJ6**	**6HYD6**	**6JZD3**
4.0 in	4.0 in	36.0 in	**6HYE8**	**1ZHJ7**	**6HYD7**	**6JZD4**
4.0 in	4.0 in	48.0 in	**6HYE9**	**1ZHJ8**	**6HYD8**	**6JZD5**
4.0 in	4.0 in	60.0 in	**6HYF0**	**1ZHJ9**	**6HYD9**	**6JZD6**
6.0 in	6.0 in	12.0 in	**6HYF1**	**1ZHK1**	**6HYE0**	**6JZD7**
6.0 in	6.0 in	24.0 in	**6HYF2**	**1ZHK2**	**6HYE1**	**6JZD8**
6.0 in	6.0 in	36.0 in	**6HYF3**	**1ZHK3**	**6HYE2**	**6JZD9**
6.0 in	6.0 in	48.0 in	**6HYF4**	**1ZHK4**	**6HYE3**	**6JZE0**
6.0 in	6.0 in	60.0 in	**6HYF5**	**1ZHK5**	**6HYE4**	**6JZE1**
6.0 in	6.0 in	72.0 in	**6HYF6**	**1ZHK6**	**6HYE5**	**6JZE2**

1ZHP7

4KN97

2W830

HUBBELL WIEGMANN

NEMA 4 and 4X Enclosures

- 14-ga. carbon steel and 16-ga. stainless steel
- ANSI 61 gray polyester powder-coated finish on painted steel units
- Neoprene gasket on NEMA 4 (JIC)
- Polyurethane foam-in-place seamless gasket on NEMA Type 4

Provide nonsubmersible watertight protection indoors and outdoors where splashing, dripping, or hose-down of noncorrosive liquids can occur. Cover is mounted to box with a sturdy continuous hinge. All hardware, door clamps, and hinges are stainless steel. Interior panels sold separately (see page 292). UL Listed and CSA Certified.

H	W	D	Interior Panel*	PAINTED STEEL NEMA 4, 12, 13 Item No.	304 STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item No.	316L STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item No.
Screw Cover Junction Boxes						
6.0 in	6.0 in	4.0 in	—	**1ZHP7** †	—	—
8.0 in	8.0 in	4.0 in	—	**1ZHP8** †	—	—
12.0 in	12.0 in	6.0 in	—	**1ZHR1** †	—	—
Hinged Cover Enclosures (JIC)						
6.0 in	4.0 in	3.5 in	4LV58	**6HXX3**	—	—
6.0 in	4.0 in	4.0 in	4LV58	—	**6HXX4**	—
6.0 in	6.0 in	4.0 in	6XC20	**4KN97**	**6XC06**	**4KN96**
8.0 in	6.0 in	3.5 in	3A926	**4KN98**	—	—
8.0 in	6.0 in	4.0 in	3A926	—	**6XC07**	—
10.0 in	8.0 in	4.0 in	3A928	**4KP01**	**6XC08**	**4KN99**
10.0 in	8.0 in	6.0 in	3A928	**4KP02**	—	—
12.0 in	10.0 in	5.0 in	6XC22	**4KP03**	—	—
12.0 in	10.0 in	6.0 in	6XC22	—	**4KP05**	**4KP04**
12.0 in	12.0 in	6.0 in	4KP36	**4KP06**	**1ZHA3**	—
14.0 in	12.0 in	6.0 in	1TDM5	—	**6XC09**	—
14.0 in	12.0 in	6.0 in	6XC23	**4KP08**	—	**4KP07**
16.0 in	14.0 in	6.0 in	3A930	**4KP10**	**6XC10**	**4KP09**
Hinged Cover Enclosures, Includes Padlockable Hasp and Print Pocket						
16.0 in	12.0 in	6.0 in	2W827	**2W830**	**6XC24**	—
16.0 in	12.0 in	8.0 in	2W827	**6XC16**	**6XC26**	—
16.0 in	16.0 in	6.0 in	31LA18	**6HXZ9**	**6HYC2**	—
20.0 in	16.0 in	6.0 in	2W828	**2W831**	**6C734**	—
20.0 in	16.0 in	8.0 in	2W828	**6C732**	**1ZHP3**	—
20.0 in	16.0 in	10.0 in	2W828	**6HYA0**	**6HYC3**	—
20.0 in	20.0 in	6.0 in	3A922	**6HYA1**	**6HYC4**	—
20.0 in	20.0 in	8.0 in	3A922	**3A923**	—	**6HYC5**
24.0 in	20.0 in	6.0 in	6XC19	**6XC15**	**6XC25**	—
24.0 in	20.0 in	8.0 in	6XC19	**6HYA2**	**1ZHP4**	—
24.0 in	24.0 in	8.0 in	2W829	**2W832**	**6XC27**	—
24.0 in	24.0 in	12.0 in	2W829	—	**6HYC6**	—
30.0 in	24.0 in	8.0 in	3A924	**6C733**	**1ZHP5**	—
30.0 in	24.0 in	10.0 in	3A924	**5W279**	—	—
30.0 in	24.0 in	12.0 in	3A924	—	**1ZHP6**	—
36.0 in	24.0 in	8.0 in	3A932	**6XC17**	**6XC28**	—
36.0 in	30.0 in	8.0 in	3A933	**1ZHG7**	—	—
36.0 in	30.0 in	10.0 in	3A933	**6HYA3**	—	—
36.0 in	30.0 in	12.0 in	3A933	**6HYA4**	**6XC29**	—
36.0 in	36.0 in	12.0 in	34C493	—	**6HYC7**	—
Accessory						
Replacement Clamp				—	—	**4KP42**

** Panel ordering information is on page 292. † Rated NEMA 3, 4 only.*

Painted Steel
32FC54

Stainless Steel
32FE43

Hoffman

Hinged-Cover NEMA 4 and 4X Enclosures

- ANSI 61 gray polyester powder-coated finish on painted steel units
- Continuous hinge
- IP66 rated

Covers feature screw-down clamp latches for reliable seal. UL Listed and CSA Certified.

H	W	D	Interior Panel*	PAINTED STEEL NEMA 4, 12, 13 Series	PAINTED STEEL NEMA 4, 12, 13 Item No.	304 STAINLESS STEEL NEMA 3R, 4, 4X, 12 Series	304 STAINLESS STEEL NEMA 3R, 4, 4X, 12 Item No.	304 STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Series	304 STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Item No.	316L STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Series	316L STAINLESS STEEL NEMA 3, 3R, 3RX, 4, 4X, 12, 13 Item No.
4.0 in	4.0 in	3.0 in	—	A51NF	**32FE39**	—	—	—	—	—	—
6.0 in	4.0 in	3.0 in	32FR89	A51NF	**32FE27**	—	—	—	—	—	—
6.0 in	4.0 in	3.0 in	32FR89	A51NF	**32FE40**	—	—	—	—	—	—
6.0 in	4.0 in	4.0 in	32FR89	—	—	A51S	**32FE44**	—	—	—	—
6.0 in	6.0 in	4.0 in	32FR66	A51NF	**32FE28**	A51S	**32FE43**	—	—	—	—
6.0 in	6.0 in	4.0 in	32FR66	A51NF	**32FE41**	—	—	—	—	—	—
8.0 in	6.0 in	3.5 in	32FR93	A51NF	**32FE29**	—	—	—	—	—	—
8.0 in	6.0 in	3.5 in	32FR93	A51NF	**32FE42**	—	—	—	—	—	—
8.0 in	6.0 in	4.0 in	32FR93	—	—	A51S	**32FE46**	—	—	—	—
10.0 in	8.0 in	4.0 in	32FR67	A51NF	**32FE30**	A51S	**32FE47**	—	—	—	—
10.0 in	8.0 in	4.0 in	32FR67	A51NF	**32FE36**	—	—	—	—	—	—
10.0 in	8.0 in	6.0 in	32FR67	A51NF	**32FE31**	—	—	—	—	—	—
12.0 in	10.0 in	5.0 in	32FR63	A51NF	**32FE32**	—	—	—	—	—	—
12.0 in	10.0 in	5.0 in	32FR63	A51NF	**32FE37**	—	—	—	—	—	—
12.0 in	10.0 in	6.0 in	32FR63	—	—	A51S	**32FE49**	—	—	—	—
12.0 in	12.0 in	6.0 in	32FR68	A51NF	**32FE33**	A51S	**32FE51**	—	—	—	—
14.0 in	12.0 in	6.0 in	32FR80	A51NF	**32FE34**	A51S	**32FE52**	—	—	—	—
14.0 in	12.0 in	6.0 in	32FR80	A51NF	**32FE38**	—	—	—	—	—	—
16.0 in	12.0 in	6.0 in	32FT25	A4	**32FC54**	—	—	A4SW3	**32FD07**	A4SW3	**32FD09**
16.0 in	12.0 in	8.0 in	32FT25	A4	**32FC55**	—	—	A4SW3	**32FD08**	A4SW3	**32FD10**
16.0 in	14.0 in	6.0 in	32FR69	A51NF	**32FE35**	A51S	**32FE54**	—	—	—	—
16.0 in	16.0 in	6.0 in	32FT28	A4	**32FC56**	—	—	A4SW3	**32FD12**	A4SW3	**32FD11**
20.0 in	16.0 in	6.0 in	32FT31	A4	**32FC57**	—	—	A4SW3	**32FD13**	—	—
20.0 in	16.0 in	8.0 in	32FT31	A4	**32FC58**	—	—	A4SW3	**32FD15**	A4SW3	**32FD14**
20.0 in	16.0 in	10.0 in	32FT31	A4	**32FC59**	—	—	A4SW3	**32FD16**	—	—
20.0 in	20.0 in	6.0 in	32FT35	A4	**32FC60**	—	—	A4SW3	**32FD17**	—	—
20.0 in	20.0 in	8.0 in	32FT35	A4	**32FC61**	—	—	A4SW3	**32FD19**	A4SW3	**32FD18**
24.0 in	16.0 in	8.0 in	32FT37	—	—	—	—	A4SW3	**32FD20**	—	—
24.0 in	20.0 in	6.0 in	32FT40	A4	**32FC62**	—	—	A4SW3	**32FD21**	—	—
24.0 in	20.0 in	8.0 in	32FT40	A4	**32FC63**	—	—	A4SW3	**32FD23**	A4SW3	**32FD22**
24.0 in	20.0 in	10.0 in	32FT40	A4	**32FC69**	—	—	A4SW3	**32FD24**	—	—
24.0 in	24.0 in	6.0 in	32FT44	A4	**32FC70**	—	—	A4SW3	**32FD25**	—	—
24.0 in	24.0 in	8.0 in	32FT44	A4	**32FC71**	—	—	A4SW3	**32FD27**	A4SW3	**32FD26**
24.0 in	24.0 in	12.0 in	32FT44	—	—	—	—	A4SW3	**32FD28**	—	—
30.0 in	24.0 in	8.0 in	32FT50	A4	**32FC64**	—	—	A4SW3	**32FD30**	A4SW3	**32FD29**
30.0 in	24.0 in	10.0 in	32FT50	A4	**32FC65**	—	—	A4SW3	**32FD31**	—	—
30.0 in	24.0 in	12.0 in	32FT50	A4	**32FC72**	—	—	A4SW3	**32FD32**	—	—
30.0 in	30.0 in	8.0 in	32FT54	A4	**32FC73**	—	—	A4SW3	**32FD33**	—	—
36.0 in	24.0 in	8.0 in	32FT55	A4	**32FC66**	—	—	A4SW3	**32FD34**	—	—
36.0 in	30.0 in	8.0 in	32FT57	A4	**32FC74**	—	—	A4SW3	**32FD35**	—	—
36.0 in	30.0 in	10.0 in	32FT57	A4	**32FC67**	—	—	A4SW3	**32FD36**	—	—
36.0 in	30.0 in	12.0 in	32FT57	A4	**32FC68**	A4SW3	**32FD42**	A4SW3	**32FD37**	—	—
36.0 in	36.0 in	12.0 in	32FT61	—	—	—	—	A4SW3	**32FD39**	A4SW3	**32FD38**
48.0 in	36.0 in	10.0 in	32FT70	A4	**32FC75**	—	—	—	—	—	—
48.0 in	36.0 in	12.0 in	32FT70	A4	**32FC76**	A4SW3	**32FD43**	A4SW3	**32FD40**	—	—
48.0 in	36.0 in	16.0 in	32FT70	A4	**32FC77**	—	—	—	—	—	—
60.0 in	36.0 in	12.0 in	32FT73	—	—	A4SW3	**32FD44**	A4SW3	**32FD41**	—	—
60.0 in	36.0 in	16.0 in	32FT73	A4	**32FC78**	—	—	—	—	—	—

** Panel ordering information is on page 289.*

HUBBELL
WIEGMANN

Wiegmann N412C ULTIMATE Series Enclosures

Protect electrical and electronic components form harsh environments. Designed with a 20° sloped-top and feature fabricated bodies and doors from 14- or 16-ga. steel with continuously plasma welded seams. Doors are interchangeable, easily removable and have flush latching. Have concealed hinges and doors are sealed with a closed cell neoprene gasket. Increased tub opening provides better access. Smooth grain finish.

2NE71

2HAY1

H	W	D	Interior Panel	Carbon Steel NEMA 3R, 4, 12 Item No.	Carbon Steel NEMA 3R, 4, 12, 13 Item No.	304 Stainless Steel NEMA 3R, 4, 4X, 12 Item No.
Enclosure						
12.0 in	12.0 in	6.0 in	2NJ26 or 2NJ27	**2NE71**	—	**2NE72**
16.0 in	12.0 in	6.0 in	2NJ28 or 2NJ29	**2NE73**	—	**2NE74**
16.0 in	12.0 in	8.0 in	2NJ28 or 2NJ29	**2NE75**	—	**2NE76**
16.0 in	16.0 in	6.0 in	2NJ30 or 2NJ31	**2NE77**	—	**2NE78**
16.0 in	16.0 in	8.0 in	2NJ30 or 2NJ31	**2NE79**	—	**2NE80**
16.0 in	20.0 in	8.0 in	2NJ32 or 2NJ33	**2NE81**	—	**2NE82**
20.0 in	16.0 in	6.0 in	2NJ32 or 2NJ33	**2NE83**	—	**2NE84**
20.0 in	16.0 in	8.0 in	2NJ32 or 2NJ33	**2NE85**	—	**2NE86**
20.0 in	20.0 in	6.0 in	2NJ34 or 2NJ35	**2NE87**	—	**2NE88**
20.0 in	20.0 in	8.0 in	2NJ34 or 2NJ35	**2NE89**	—	**2NE90**
20.0 in	20.0 in	12.0 in	2NJ34 or 2NJ35	**2NE91**	—	**2NE92**
24.0 in	16.0 in	8.0 in	2NJ36 or 2NJ37	**2NE93**	—	**2NE94**
24.0 in	20.0 in	8.0 in	2NJ38 or 2NJ39	**2NE95**	—	**2NE96**
24.0 in	24.0 in	8.0 in	2NJ40 or 2NJ41	**2NE97**	—	**2NE98**
24.0 in	24.0 in	12.0 in	2NJ40 or 2NJ41	**2NE99**	—	**2NJ10**
30.0 in	24.0 in	8.0 in	2NJ42 or 2NJ43	**2NJ11**	—	**2NJ12**
30.0 in	24.0 in	12.0 in	2NJ42 or 2NJ43	**2NJ13**	—	**2NJ14**
30.0 in	30.0 in	8.0 in	2NJ44 or 2NJ45	**2NJ15**	—	**2NJ16**
36.0 in	24.0 in	8.0 in	2NJ46 or 2NJ47	**2NJ17**	—	**2NJ18**
36.0 in	30.0 in	8.0 in	2NJ48 or 2NJ49	**2NJ20**	—	**2NJ22**
36.0 in	30.0 in	12.0 in	2NJ48 or 2NJ49	**2NJ24**	—	**2NJ25**

H	W	D	Interior Panel	Carbon Steel NEMA 3R, 4, 12 Item No.	Carbon Steel NEMA 3R, 4, 12, 13 Item No.	304 Stainless Steel NEMA 3R, 4, 4X, 12 Item No.
Sloped Top Enclosure						
12.0 in	12.0 in	6.0 in	2NJ26	—	**2HAX1**	—
16.0 in	12.0 in	6.0 in	2NJ28	—	**2HAX2**	—
16.0 in	12.0 in	8.0 in	2NJ28	—	—	**2HCA8**
16.0 in	16.0 in	8.0 in	2NJ30	—	**2HAX3**	**2HCA2**
20.0 in	16.0 in	6.0 in	2NJ32	—	**2HAX4**	—
20.0 in	16.0 in	8.0 in	2NJ32	—	**2HAX5**	**2HAZ8**
20.0 in	16.0 in	12.0 in	2NJ32	—	—	**2HCC3**
20.0 in	20.0 in	6.0 in	2NJ34	—	**2HAX6**	—
20.0 in	20.0 in	8.0 in	2NJ34	—	**2HAX7**	**2HCA1**
20.0 in	20.0 in	12.0 in	2NJ35	—	—	**2HCC1**
24.0 in	20.0 in	8.0 in	2NJ38	—	**2HAX8**	**2HCA3**
24.0 in	24.0 in	8.0 in	2NJ40	—	**2HAY2**	**2HAZ9**
24.0 in	24.0 in	10.0 in	2NJ40	—	**2HAX9**	—
24.0 in	24.0 in	12.0 in	2NJ40	—	**2HAY1**	**2HCA6**
30.0 in	24.0 in	8.0 in	2NJ42	—	**2HAY6**	**2HCA4**
30.0 in	24.0 in	12.0 in	2NJ42	—	**2HAY4**	**2HCA5**
30.0 in	24.0 in	20.0 in	2NJ42	—	**2HAY5**	—
30.0 in	30.0 in	8.0 in	2NJ44	—	—	**2HCA7**
30.0 in	30.0 in	8.0 in	2NJ42	—	**2HAY7**	—
36.0 in	30.0 in	8.0 in	2NJ48	—	**2HAZ2**	—
36.0 in	30.0 in	10.0 in	2NJ48	—	**2HAY8**	—
36.0 in	30.0 in	12.0 in	2NJ48	—	**2HAY9**	**2HCC2**
36.0 in	30.0 in	16.0 in	2NJ48	—	**2HAZ1**	**2HCC5**
36.0 in	36.0 in	12.0 in	34C492	—	**2HAZ3**	**2HCA9**
48.0 in	36.0 in	10.0 in	34C483	—	**2HAZ4**	—
48.0 in	36.0 in	12.0 in	34C483	—	**2HAZ5**	—
48.0 in	36.0 in	16.0 in	34C483	—	**2HAZ6**	—
60.0 in	36.0 in	12.0 in	34C472	—	**2HAZ7**	—
60.0 in	36.0 in	16.0 in	34C472	—	—	**2HCC7**

Hoffman

Aluminum Enclosures, NEMA 12 and 13

Lightweight enclosures protect components and controls in indoor applications. Designed with seams that are continuously welded and ground smooth. Stainless steel screws and clamps secure cover that is removed by pulling stainless steel continuous hinge pin. Weldnuts are furnished for mounting optional panels and terminal block kit. Oil-resistant gasket. Enclosures are unpainted; cover and sides of body have smooth, brushed finish.

H	W	D	Item No.
6.0 in	6.0 in	4.0 in	**32FD74**
8.0 in	6.0 in	4.0 in	**32FD75**
10.0 in	8.0 in	4.0 in	**32FD70**
12.0 in	10.0 in	6.0 in	**32FD71**
14.0 in	12.0 in	6.0 in	**32FD72**
16.0 in	14.0 in	6.0 in	**32FD73**

32FD71

Hoffman

Sloped-Top Enclosures

Designed with a 20° sloped-top, these enclosures feature 14- or 16-ga. steel with continuously welded and ground seams. Carbon steel versions have gray polyester powder paint inside and out. Ideal for smaller control cabinets for applications requiring the mounting of controls at an ergonomic height. NEMA 12 and 13 for carbon steel and NEMA 3R,4,4X, and 12 for stainless steel.

H	W	D	CARBON STEEL Item No.	304 STAINLESS STEEL Item No.
Wall Mount, Hinged Cover				
12.0 in	12.0 in	6.0 in	**32FJ89**	—
16.0 in	12.0 in	8.0 in	—	**32FK76**
16.0 in	16.0 in	8.0 in	**32FJ90**	**32FK77**
20.0 in	16.0 in	8.0 in	**32FJ91**	**32FK78**
20.0 in	20.0 in	8.0 in	**32FJ92**	**32FK79**
20.0 in	20.0 in	12.0 in	—	**32FK82**
24.0 in	20.0 in	8.0 in	**32FJ93**	**32FK83**
24.0 in	24.0 in	8.0 in	**32FJ94**	—
24.0 in	24.0 in	10.0 in	**32FJ95**	—
24.0 in	24.0 in	12.0 in	**32FJ96**	**32FK84**
30.0 in	24.0 in	8.0 in	—	**32FK86**
30.0 in	24.0 in	12.0 in	**32FJ97**	**32FK85**
30.0 in	30.0 in	8.0 in	—	**32FK80**
36.0 in	30.0 in	10.0 in	**32FJ98**	—
36.0 in	30.0 in	12.0 in	**32FJ99**	**32FK87**
36.0 in	36.0 in	12.0 in	—	**32FK88**
60.0 in	36.0 in	16.0 in	—	**32FK81**

H	W	D	CARBON STEEL Item No.
Pedestal/Table Mount, Screw On Cover			
8.0 in	8.0 in	7.09 in	**32FJ07**
8.0 in	12.0 in	7.09 in	**32FJ08**
8.0 in	16.0 in	7.09 in	**32FJ09**
8.0 in	20.0 in	7.09 in	**32FJ10**
12.0 in	12.0 in	9.09 in	**32FJ11**
12.0 in	16.0 in	9.09 in	**32FJ12**
12.0 in	20.0 in	9.09 in	**32FJ13**
12.0 in	24.0 in	9.09 in	**32FJ14**
16.0 in	16.0 in	11.09 in	**32FJ15**
16.0 in	20.0 in	11.09 in	**32FJ16**
16.0 in	24.0 in	11.09 in	**32FJ17**
16.0 in	30.0 in	11.09 in	**32FJ18**
16.0 in	36.0 in	11.09 in	**32FJ22**
20.0 in	20.0 in	13.09 in	**32FJ19**
20.0 in	24.0 in	13.09 in	**32FJ20**
20.0 in	30.0 in	13.09 in	**32FJ21**

32FJ89

32FJ08

1ZHD4

3A927

HUBBELL
WIEGMANN

JIC and NEMA 12 and 13 Enclosures

- ANSI 61 gray polyester powder-coated finish
- 14-ga. steel

Screw-cover models have a removable cover fastened at the corners with captive, plated screws. Hinged-cover models have continuous hinged door with plated screw-fastened clamps or keyed handle. UL Listed and CSA Certified.

H	W	D	Interior Panel*	Mfr. Model	Item No.
Screw-Cover JIC Enclosures, Neoprene Gasket					
4.0 in	2.0 in	2.0 in	—	JIC040202	**1ZHD5**
4.0 in	3.0 in	2.5 in	—	JIC0403025	**1ZHD4**
4.0 in	4.0 in	3.0 in	—	JIC040403	**1ZHD6**
4.0 in	4.0 in	4.0 in	—	B040404SC	**1ZGY8**
6.0 in	4.0 in	4.0 in	4LV58	B060404SC	**1ZGZ1**
6.0 in	6.0 in	4.0 in	6XC20	B060604SC	**1ZGZ2**
8.0 in	6.0 in	3.5 in	3A926	B080603SC	**3A925**
8.0 in	8.0 in	4.0 in	6XC21	B080804SC	**1ZGZ3**
10.0 in	8.0 in	4.0 in	3A928	B100804SC	**1ZGZ4**
10.0 in	8.0 in	6.0 in	3A928	B100806SC	**3A927**
12.0 in	10.0 in	5.0 in	6XC22	B121005SC	**1ZGZ5**
12.0 in	12.0 in	6.0 in	4KP36	B121206SC	**1ZGZ6**
14.0 in	12.0 in	6.0 in	6XC23	B141206SC	**1ZGZ7**
16.0 in	14.0 in	6.0 in	3A930	B161406SC	**3A929**
Hinged-Cover JIC Enclosures, Neoprene Gasket					
4.0 in	4.0 in	3.5 in	—	B040403CH	**6C730**
6.0 in	4.0 in	3.5 in	4LV58	B060403CH	**4KN93**
6.0 in	4.0 in	4.0 in	4LV58	B060404CH	**1ZGY9**
6.0 in	6.0 in	4.0 in	6XC20	B060604CH	**6XC00**
8.0 in	6.0 in	3.5 in	3A926	B080603CH	**6C731**
8.0 in	8.0 in	4.0 in	6XC21	B080804CH	**6XC01**
10.0 in	8.0 in	4.0 in	3A928	B100804CH	**4KN94**
10.0 in	8.0 in	6.0 in	3A928	B100806CH	**6XC02**
12.0 in	10.0 in	5.0 in	6XC22	B121005CH	**6XC03**
12.0 in	12.0 in	6.0 in	4KP36	B121206CH	**4KN95**
14.0 in	12.0 in	6.0 in	6XC23	B141206CH	**6XC04**
16.0 in	14.0 in	6.0 in	3A930	B161406CH	**6XC05**
20.0 in	16.0 in	7.0 in	2W828	B201607CH	**6C721**
20.0 in	16.0 in	9.0 in	2W828	B201609CH	**1ZGZ8**
20.0 in	20.0 in	7.0 in	3A922	B202007CH	**6C722**
20.0 in	20.0 in	9.0 in	3A922	B202009CH	**1ZGZ9**
24.0 in	20.0 in	7.0 in	6XC19	B242007CH	**6C723**
24.0 in	20.0 in	9.0 in	6XC19	B242009CH	**1ZHA1**
24.0 in	24.0 in	9.0 in	2W829	B242409CH	**6C724**
30.0 in	24.0 in	9.0 in	3A924	B302409CH	**1ZHA2**
Hinged-Cover, Wall-Mount with Padlockable Hasp, Polyurethane Seamless Gasket					
16.0 in	12.0 in	6.0 in	2W827	N12161206	**2W824**
16.0 in	16.0 in	8.0 in	31LA18	N12161608	**1ZHD7**
20.0 in	16.0 in	6.0 in	2W828	N12201606	**2W825**
20.0 in	16.0 in	8.0 in	2W828	N12201608	**6XC12**
20.0 in	20.0 in	8.0 in	3A922	N12202008	**3A931**
24.0 in	16.0 in	8.0 in	6XC18	N12241608	**6XC13**
24.0 in	20.0 in	6.0 in	6XC19	N12242006	**1ZHD8**
24.0 in	20.0 in	8.0 in	6XC19	N12242008	**1ZHD9**
24.0 in	24.0 in	6.0 in	2W829	N412242406C	**6XC11**
24.0 in	24.0 in	8.0 in	2W829	N12242408	**2W826**
24.0 in	24.0 in	10.0 in	2W829	N12242410	**1ZHE1**
30.0 in	24.0 in	6.0 in	3A924	N12302406	**1ZHE2**
30.0 in	24.0 in	8.0 in	3A924	N12302408	**6C748**
30.0 in	24.0 in	10.0 in	3A924	N12302410	**5W280**
30.0 in	30.0 in	8.0 in	31LA19	N12303008	**1ZHE3**
36.0 in	24.0 in	8.0 in	3A932	N12362408	**6XC14**
36.0 in	24.0 in	10.0 in	3A932	N12362410	**5W281**
36.0 in	24.0 in	12.0 in	3A932	N12362412	**1ZHE4**
36.0 in	30.0 in	12.0 in	3A933	N12363012	**5W282**
48.0 in	36.0 in	12.0 in	2VB87	N12483612	**1ZHE5**
Enclosure Accessories					
Key Lock Kit for JIC Enclosures				WACLJIC	**4KP38**
Key Lock Kit for NEMA 12 Enclosures				WACLSN12	**3A938**
Latch Kit for NEMA 12 Enclosures, Single-Point Key Locking				WAL2A	**2W839**
Padlock Kit for JIC Enclosures				WAPLKJIC	**4KP43**
Replacement Clamp Assembly for JIC Enclosures				WAJICRA	**4KP39**
Replacement Clamp Assembly for NEMA 12 Enclosures				WAN12RA	**4KP41**

** Interior panels sold separately; see page 292.*

32FD78

32EZ48

Hoffman

NEMA 12 and 13 Enclosures

Constructed of 16- or 14-ga. steel, and feature seams continuously welded and ground smooth. Bonding provision on door. A51SC Series have ANSI 61 gray polyester powder paint inside and out. Designed with screw cover and is secured in each corner for a positive seal that is easily removed for modifications. A51CH Series have ANSI 61 gray polyester powder paint inside and out. Designed with screw-down clamps for secure closure and can be used in a wide variety of applications. A12 Series have a white inside with ANSI 61 gray finish on the outside. Designed for applications requiring a bright white interior to increase visibility; includes a padlocking hasp and staple for security and screw-down clamps for secure closure.

H	W	D	Interior Panel*	Mfr. Model	Item No.
Screw On Cover, A51SC Series					
4.0 in	4.0 in	3.0 in	—	A404SC	**32FE77**
4.0 in	4.0 in	4.0 in	—	A4044SC	**32FE64**
6.0 in	4.0 in	3.0 in	32FR89	A604SC	**32FE78**
6.0 in	4.0 in	4.0 in	32FR89	A6044SC	**32FE65**
6.0 in	6.0 in	4.0 in	32FR66	A606SC	**32FE66**
8.0 in	6.0 in	3.5 in	32FR93	A806SC	**32FE67**
8.0 in	6.0 in	6.0 in	32FR93	A8066SC	**32FE79**
8.0 in	8.0 in	4.0 in	32FR96	A808SC	**32FE68**
10.0 in	8.0 in	4.0 in	32FR67	A1008SC	**32FE69**
10.0 in	8.0 in	6.0 in	32FR67	A10086SC	**32FE70**
10.0 in	10.0 in	4.0 in	32FR70	A1010SC	**32FE76**
10.0 in	10.0 in	6.0 in	32FR70	A10106SC	**32FE75**
12.0 in	10.0 in	5.0 in	32FR63	A1210SC	**32FE71**
12.0 in	12.0 in	6.0 in	32FR68	A1212SC	**32FE72**
14.0 in	12.0 in	6.0 in	32FR80	A1412SC	**32FE73**
16.0 in	14.0 in	6.0 in	32FR69	A1614SC	**32FE74**
Hinged Cover, A51CH Series					
4.0 in	4.0 in	3.0 in	—	A404CH	**32FD76**
4.0 in	4.0 in	4.0 in	—	A4044CH	**32FD77**
6.0 in	4.0 in	3.0 in	32FR89	A604CH	**32FD78**
6.0 in	4.0 in	4.0 in	32FR89	A6044CH	**32FD79**
6.0 in	6.0 in	4.0 in	32FR66	A606CH	**32FD80**
8.0 in	6.0 in	3.5 in	32FR93	A806CH	**32FD81**
8.0 in	6.0 in	6.0 in	32FR93	A8066CH	**32FD82**
8.0 in	8.0 in	4.0 in	32FR96	A808CH	**32FD83**
10.0 in	8.0 in	4.0 in	32FR67	A1008CHS	**32FD94**
10.0 in	8.0 in	4.0 in	32FR67	A1008CH	**32FD84**
10.0 in	8.0 in	6.0 in	32FR67	A10086CH	**32FD85**
10.0 in	10.0 in	6.0 in	32FR70	A10106CH	**32FD86**
12.0 in	6.0 in	4.0 in	32FR79	A12064CH	**32FD95**
12.0 in	10.0 in	5.0 in	32FR63	A1210CH	**32FD87**
12.0 in	10.0 in	8.0 in	32FR63	A12108CH	**32FD88**
12.0 in	12.0 in	6.0 in	32FR68	A1212CH	**32FD89**
14.0 in	8.0 in	6.0 in	32FR82	A14086CH	**32FD96**
14.0 in	12.0 in	6.0 in	32FR80	A1412CH	**32FD90**
14.0 in	12.0 in	8.0 in	32FR80	A14128CH	**32FD91**
16.0 in	10.0 in	6.0 in	32FR83	A16106CH	**32FD97**
16.0 in	14.0 in	6.0 in	32FR69	A1614CH	**32FD92**
16.0 in	14.0 in	6.0 in	32FR69	A1614CHS	**32FD99**
16.0 in	14.0 in	8.0 in	32FR69	A16148CH	**32FD93**
16.0 in	14.0 in	10.0 in	32FR69	A161410CH	**32FD98**
Hinged Cover, A12 Series					
16.0 in	12.0 in	6.0 in	32FT25	A161206LP	**32EZ48**
16.0 in	12.0 in	8.0 in	32FT25	A161208LP	**32EZ49**
16.0 in	16.0 in	6.0 in	32FT28	A161606LP	**32EZ50**
16.0 in	16.0 in	8.0 in	32FT28	A161608LP	**32EZ51**
16.0 in	20.0 in	6.0 in	32FT31	A162006LP	**32EZ80**
16.0 in	20.0 in	8.0 in	32FT31	A162008LP	**32EZ81**
20.0 in	16.0 in	6.0 in	32FT31	A201606LP	**32EZ52**
20.0 in	16.0 in	8.0 in	32FT31	A201608LP	**32EZ53**
20.0 in	16.0 in	10.0 in	32FT31	A201610LP	**32EZ54**
20.0 in	16.0 in	12.0 in	32FT31	A201612LP	**32EZ82**
20.0 in	20.0 in	6.0 in	32FT35	A202006LP	**32EZ55**
20.0 in	20.0 in	8.0 in	32FT35	A202008LP	**32EZ56**
20.0 in	20.0 in	10.0 in	32FT35	A202010LP	**32EZ83**
20.0 in	24.0 in	8.0 in	32FT40	A202408LP	**32EZ84**
24.0 in	16.0 in	6.0 in	32FT37	A241606LP	**32EZ85**
24.0 in	16.0 in	8.0 in	32FT37	A241608LP	**32EZ57**
24.0 in	20.0 in	6.0 in	32FT40	A242006LP	**32EZ58**
24.0 in	20.0 in	8.0 in	32FT40	A242008LP	**32EZ59**
24.0 in	20.0 in	10.0 in	32FT40	A242010LP	**32EZ60**
24.0 in	20.0 in	12.0 in	32FT40	A242012LP	**32EZ86**
24.0 in	24.0 in	6.0 in	32FT44	A242406LP	**32EZ61**
24.0 in	24.0 in	8.0 in	32FT44	A242408LP	**32EZ62**
24.0 in	24.0 in	10.0 in	32FT44	A242410LP	**32EZ63**
24.0 in	24.0 in	12.0 in	32FT44	A242412LP	**32EZ64**
24.0 in	30.0 in	8.0 in	32FT50	A243008LP	**32EZ65**
24.0 in	42.0 in	8.0 in	32FT63	A244208WFLP	**32EZ78**
24.0 in	48.0 in	8.0 in	32FT68	A244808WFLP	**32EZ79**
30.0 in	20.0 in	8.0 in	32FT48	A302008LP	**32EZ66**
30.0 in	20.0 in	10.0 in	32FT48	A302010LP	**32EZ87**
30.0 in	24.0 in	6.0 in	32FT50	A302406LP	**32EZ67**
30.0 in	24.0 in	8.0 in	32FT50	A302408LP	**32EZ68**
30.0 in	24.0 in	10.0 in	32FT50	A302410LP	**32EZ69**
30.0 in	24.0 in	12.0 in	32FT50	A302412LP	**32EZ70**
30.0 in	30.0 in	8.0 in	32FT54	A303008LP	**32EZ71**
30.0 in	30.0 in	12.0 in	32FT54	A303012LP	**32EZ88**
30.0 in	36.0 in	8.0 in	32FT57	A303608LP	**32EZ89**
30.0 in	42.0 in	10.0 in	32FT64	A304210WFLP	**32EZ90**
30.0 in	48.0 in	10.0 in	32FT69	A304810WFLP	**32EZ91**
30.0 in	60.0 in	10.0 in	Mfr. No. A60P30	A306010WFLP	**32EZ92**
36.0 in	24.0 in	8.0 in	32FT55	A362408LP	**32EZ72**
36.0 in	24.0 in	10.0 in	32FT55	A362410LP	**32EZ73**
36.0 in	24.0 in	12.0 in	32FT55	A362412LP	**32EZ74**
36.0 in	30.0 in	8.0 in	32FT57	A363008LP	**32EZ75**
36.0 in	30.0 in	10.0 in	32FT57	A363010LP	**32EZ93**
36.0 in	30.0 in	12.0 in	32FT57	A363012LP	**32EZ94**
36.0 in	30.0 in	16.0 in	32FT57	A363016LP	**32EZ95**
36.0 in	36.0 in	8.0 in	32FT61	A363608LP	**32EZ96**
36.0 in	36.0 in	12.0 in	32FT61	A363612LP	**32EZ76**
36.0 in	42.0 in	12.0 in	32FT66	A364212WFLP	**32EZ97**
36.0 in	48.0 in	12.0 in	32FT70	A364812WFLP	**32EZ98**
42.0 in	30.0 in	8.0 in	32FT64	A423008LP	**32EZ99**
42.0 in	30.0 in	10.0 in	32FT64	A423010LP	**32FA01**
42.0 in	30.0 in	12.0 in	32FT64	A423012LP	**32FA02**
42.0 in	36.0 in	8.0 in	32FT66	A423608LP	**32FA03**
42.0 in	36.0 in	10.0 in	32FT66	A423610LP	**32FA04**
42.0 in	36.0 in	12.0 in	32FT66	A423612LP	**32FA05**
42.0 in	36.0 in	16.0 in	32FT66	A423616LP	**32FA06**
42.0 in	60.0 in	12.0 in	Mfr. No. A60BFP42	A426012WFALP	**32FA07**
48.0 in	30.0 in	10.0 in	32FT69	A483010LP	**32FA08**
48.0 in	36.0 in	8.0 in	32FT70	A483608LP	**32FA09**
48.0 in	36.0 in	10.0 in	32FT70	A483610LP	**32FA10**
48.0 in	36.0 in	12.0 in	32FT70	A483612LP	**32EZ77**
48.0 in	36.0 in	16.0 in	32FT70	A483616LP	**32FA11**
48.0 in	48.0 in	12.0 in	32FT72	A484812WFLP	**32FA12**
60.0 in	36.0 in	10.0 in	32FT73	A603610LP	**32FA13**
60.0 in	36.0 in	12.0 in	32FT73	A603612LP	**32FA14**
60.0 in	36.0 in	16.0 in	32FT73	A603616LP	**32FA15**
72.0 in	36.0 in	12.0 in	Mfr. No. A72P36G	A723612LP	**32FA16**
Locking Accessories					
Replacement Clamp For Clamp-cover Enclosures				AL23SS	**32FF40**

** Interior panels sold separately; see page 289.*

CONCEPT™ NEMA 12 Wall-Mount Enclosures Hoffman

32FJ27

- NEMA rated: 4, 12, 13
- Hinged cover
- CW1 Series

These enclosures are ideal for machine control applications. Designed with streamlined styling, flush quarter-turn latches, and an attractive, durable finish. Gray, ANSI 61 polyester powder-coated finish except where noted. Stainless steel versions are available on Grainger.com®.

H	W	D	Interior Panel*	Mfr. Model	Item No.
12.0 in	12.0 in	6.0 in	32FK08	CSD12126	**32FJ23**
12.0 in	12.0 in	6.0 in	32FK08	CSD12126LG	**32FJ47** †
16.0 in	12.0 in	6.0 in	32FK10	CSD16126	**32FJ24**
16.0 in	12.0 in	8.0 in	32FK10	CSD16128	**32FJ25**
16.0 in	12.0 in	10.0 in	32FK10	CSD161210	**32FJ48**
16.0 in	16.0 in	6.0 in	32FK12	CSD16166	**32FJ26**
16.0 in	16.0 in	6.0 in	32FK12	CSD16166LG	**32FJ43** †
16.0 in	16.0 in	8.0 in	32FK12	CSD16168	**32FJ27**
16.0 in	16.0 in	8.0 in	32FK12	CSD16168LG	**32FJ50** †
16.0 in	16.0 in	10.0 in	32FK12	CSD161610	**32FJ49**
16.0 in	20.0 in	6.0 in	32FK14	CSD16206	**32FJ51**
16.0 in	20.0 in	8.0 in	32FK14	CSD16208	**32FJ28**
20.0 in	16.0 in	6.0 in	32FK14	CSD20166	**32FJ29**
20.0 in	16.0 in	8.0 in	32FK14	CSD20168	**32FJ30**
20.0 in	16.0 in	8.0 in	32FK14	CSD20168LG	**32FJ44** †
20.0 in	16.0 in	10.0 in	32FK14	CSD201610	**32FJ52**
20.0 in	20.0 in	6.0 in	32FK16	CSD20206	**32FJ31**
20.0 in	20.0 in	8.0 in	32FK16	CSD20208	**32FJ32**
20.0 in	20.0 in	8.0 in	32FK16	CSD20208LG	**32FJ45** †
20.0 in	20.0 in	10.0 in	32FK16	CSD202010	**32FJ53**
20.0 in	20.0 in	12.0 in	32FK16	CSD202012	**32FJ33**
20.0 in	24.0 in	8.0 in	32FK20	CSD20248	**32FJ55**
20.0 in	24.0 in	10.0 in	32FK20	CSD202410	**32FJ54**
24.0 in	16.0 in	6.0 in	32FK18	CSD24166	**32FJ57**
24.0 in	16.0 in	8.0 in	32FK18	CSD24168	**32FJ34**
24.0 in	16.0 in	10.0 in	32FK18	CSD241610	**32FJ56**
24.0 in	20.0 in	6.0 in	32FK20	CSD24206	**32FJ60**
24.0 in	20.0 in	8.0 in	32FK20	CSD24208	**32FJ61**
24.0 in	20.0 in	10.0 in	32FK20	CSD242010	**32FJ58**
24.0 in	20.0 in	12.0 in	32FK20	CSD242012	**32FJ59**
24.0 in	24.0 in	6.0 in	32FK22	CSD24246	**32FJ64**
24.0 in	24.0 in	8.0 in	32FK22	CSD24248	**32FJ35**
24.0 in	24.0 in	8.0 in	32FK22	CSD24248LG	**32FJ46** †
24.0 in	24.0 in	10.0 in	32FK22	CSD242410	**32FJ62**
24.0 in	24.0 in	12.0 in	32FK22	CSD242412	**32FJ36**
24.0 in	24.0 in	16.0 in	32FK22	CSD242416	**32FJ63**
24.0 in	30.0 in	8.0 in	32FK26	CSD24308	**32FJ66**
24.0 in	30.0 in	10.0 in	32FK26	CSD243010	**32FJ65**
24.0 in	42.0 in	8.0 in	32FK24	CTD24428	**32FJ87** ‡
30.0 in	20.0 in	8.0 in	32FK25	CSD30208	**32FJ68**
30.0 in	20.0 in	10.0 in	32FK25	CSD302010	**32FJ67**
30.0 in	24.0 in	8.0 in	32FK26	CSD30248	**32FJ37**
30.0 in	24.0 in	10.0 in	32FK26	CSD302410	**32FJ69**
30.0 in	24.0 in	12.0 in	32FK26	CSD302412	**32FJ38**
30.0 in	30.0 in	8.0 in	32FK28	CSD30308	**32FJ39**
30.0 in	30.0 in	10.0 in	32FK28	CSD303010	**32FJ70**
30.0 in	30.0 in	12.0 in	32FK28	CSD303012	**32FJ71**
36.0 in	24.0 in	8.0 in	32FK30	CSD36248	**32FJ40**
36.0 in	24.0 in	10.0 in	32FK30	CSD362410	**32FJ72**
36.0 in	24.0 in	12.0 in	32FK30	CSD362412	**32FJ73**
36.0 in	30.0 in	8.0 in	32FK32	CSD36308	**32FJ41**
36.0 in	30.0 in	10.0 in	32FK32	CSD363010	**32FJ74**
36.0 in	30.0 in	12.0 in	32FK32	CSD363012	**32FJ42**
36.0 in	30.0 in	16.0 in	32FK32	CSD363016	**32FJ75**
36.0 in	36.0 in	8.0 in	32FK34	CSD36368	**32FJ78**
36.0 in	36.0 in	10.0 in	32FK34	CSD363610	**32FJ76**
36.0 in	36.0 in	12.0 in	32FK34	CSD363612	**32FJ77**
36.0 in	48.0 in	12.0 in	32FK39	CTD364812	**32FJ88** ‡
42.0 in	36.0 in	10.0 in	32FK37	CSD423610	**32FJ79**
42.0 in	36.0 in	12.0 in	32FK37	CSD423612	**32FJ80**
48.0 in	24.0 in	12.0 in	32FK38	CSD482412	**32FJ81**
48.0 in	36.0 in	10.0 in	32FK39	CSD483610	**32FJ82**
48.0 in	36.0 in	12.0 in	32FK39	CSD483612	**32FJ83**
48.0 in	36.0 in	16.0 in	32FK39	CSD483616	**32FJ84**
60.0 in	36.0 in	10.0 in	32FK41	CSD603610	**32FJ85**
60.0 in	36.0 in	12.0 in	32FK41	CSD603612	**32FJ86**

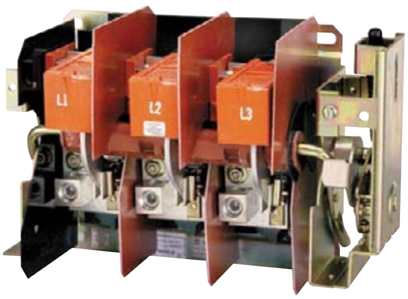
** Interior panels sold separately, this page. † Light gray, RAL 7035 textured polyester powder finish. ‡ 2-door model.*

Interior Panels Hoffman

32FR62

Install inside enclosure to allow mounting of components.
Panel mounting hardware included.

H	W	Mfr. Model	Item No.
Aluminum			
4.88 in	4.88 in	A6P6AL	**32FR91**
6.75 in	4.88 in	A8P6AL	**32FR94**
8.75 in	6.75 in	A10P8AL	**32FR72**
10.75 in	8.75 in	A12P10AL	**32FR75**
12.75 in	10.75 in	A14P12AL	**32FR81**
13.0 in	9.0 in	A16P12AL	**32FT26**
14.75 in	12.88 in	A16P14AL	**32FR85**
16.75 in	14.88 in	A18P16AL	**32FR88**
17.0 in	13.0 in	A20P16AL	**32FT32**
21.0 in	17.0 in	A24P20AL	**32FT41**
21.0 in	21.0 in	A24P24AL	**32FT45**
27.0 in	21.0 in	A30P24AL	**32FT51**
33.0 in	27.0 in	A36P30AL	**32FT58**
Stainless Steel			
6.75 in	4.88 in	A8P6SS	**32FR95**
8.75 in	6.75 in	A10P8SS	**32FR74**
10.75 in	8.75 in	A12P10SS	**32FR77**
10.75 in	10.75 in	A12P12SS	**32FR78**
13.0 in	9.0 in	A16P12SS6	**32FT27**
14.75 in	12.88 in	A16P14SS	**32FR87**
17.0 in	13.0 in	A20P16SS6	**32FT34**
21.0 in	13.0 in	A24P16SS6	**32FT39**
21.0 in	17.0 in	A24P20SS6	**32FT43**
21.0 in	21.0 in	A24P24SS6	**32FT47**
27.0 in	21.0 in	A30P24SS6	**32FT53**
33.0 in	27.0 in	A36P30SS6	**32FT60**
Steel, Galvanized			
4.88 in	2.88 in	A6P4G	**32FR90**
4.88 in	4.88 in	A6P6G	**32FR92**
6.75 in	4.88 in	A8P6G	**32FR62**
8.25 in	6.25 in	A10N8P	**32FT05**
8.25 in	8.25 in	A10N10P	**32FT04**
8.75 in	6.88 in	A10P8G	**32FR73**
8.75 in	8.88 in	A10P10G	**32FR71**
10.2 in	10.2 in	CP1212G	**32FK09**
10.25 in	8.25 in	A12N10P	**32FT06**
10.25 in	10.25 in	A12N12PP	**32FR97**
10.25 in	10.25 in	A12N12P	**32FT07**
10.75 in	8.88 in	A12P10G	**32FR76**
10.75 in	10.88 in	A12P12G	**32FR64**
12.0 in	12.0 in	PB1212PP	**32FT03**
12.25 in	10.25 in	A14N12P	**32FT08**
12.75 in	10.88 in	A14P12G	**32FR65**
13.0 in	10.5 in	A16N12MP	**32FT09**
13.0 in	14.5 in	A16N16MP	**32FT11**
14.2 in	10.2 in	CP1612G	**32FK11**
14.25 in	10.25 in	A16N12P	**32FT10**
14.5 in	17.0 in	A20N16MPP	**32FR98**
14.75 in	8.88 in	A16P10G	**32FR84**
14.75 in	12.88 in	A16P14G	**32FR86**
17.0 in	13.0 in	A20P16G	**32FT33**
17.0 in	14.5 in	A20N16MP	**32FT12**
17.0 in	17.0 in	A20P20G	**32FT36**
17.0 in	18.5 in	A20N20MP	**32FT13**
18.2 in	14.2 in	CP2016G	**32FK15**
18.2 in	18.2 in	CP2020G	**32FK17**
18.5 in	21.0 in	A24N20MPP	**32FR99**
21.0 in	13.0 in	A24P16G	**32FT38**
21.0 in	14.5 in	A24N16MP	**32FT14**
21.0 in	17.0 in	A24P20G	**32FT42**
21.0 in	18.5 in	A24N20MP	**32FT15**
21.0 in	21.0 in	A24P24G	**32FT46**
21.0 in	22.5 in	A24N24MP	**32FT16**
22.2 in	14.2 in	CP2416G	**32FK19**
22.2 in	18.2 in	CP2420G	**32FK21**
22.5 in	21.0 in	A24N24MPP	**32FT01**
22.5 in	32.0 in	A36N24MPP	**32FT02**
26.0 in	22.5 in	A30N24MP	**32FT17**
26.0 in	28.5 in	A30N30MP	**32FT18**
27.0 in	17.0 in	A30P20G	**32FT49**
27.0 in	21.0 in	A30P24G	**32FT52**
32.0 in	22.5 in	A36N24MP	**32FT19**
32.0 in	28.5 in	A36N30MP	**32FT20**
33.0 in	21.0 in	A36P24G	**32FT56**
33.0 in	27.0 in	A36P30G	**32FT59**
39.0 in	27.0 in	A42P30G	**32FT65**
39.0 in	33.0 in	A42P36G	**32FT67**
45.0 in	33.0 in	A48P36G	**32FT71**
56.0 in	44.0 in	A60P48G	**32FR57**
56.0 in	56.0 in	A60P60G	**32FR59**
57.0 in	33.0 in	A60P36G	**32FT74**
68.0 in	56.0 in	A72P60G	**32FR61**
Steel, White			
4.25 in	4.25 in	A6N6P	**32FT21**
4.88 in	2.88 in	A6P4	**32FR89**
4.88 in	4.88 in	A6P6	**32FR66**
6.25 in	4.25 in	A8N6P	**32FT22**
6.25 in	6.25 in	A8N8P	**32FT23**
6.75 in	4.88 in	A8P6	**32FR93**
6.75 in	6.88 in	A8P8	**32FR96**
8.75 in	6.88 in	A10P8	**32FR67**
8.75 in	8.88 in	A10P10	**32FR70**
9.0 in	21.0 in	A12P24	**32FT24**
10.2 in	10.2 in	CP1212	**32FK08**
10.75 in	4.88 in	A12P6	**32FR79**
10.75 in	8.88 in	A12P10	**32FR63**
10.75 in	10.88 in	A12P12	**32FR68**
12.75 in	6.88 in	A14P8	**32FR82**
12.75 in	10.88 in	A14P12	**32FR80**
13.0 in	9.0 in	A16P12	**32FT25**
13.0 in	13.0 in	A16P16	**32FT28**
14.2 in	10.2 in	CP1612	**32FK10**
14.2 in	14.2 in	CP1616	**32FK12**
14.75 in	8.88 in	A16P10	**32FR83**
14.75 in	12.88 in	A16P14	**32FR69**
15.0 in	15.0 in	A18P18	**32FT30**
16.75 in	14.88 in	A18P16	**32FT29**
17.0 in	13.0 in	A20P16	**32FT31**
17.0 in	17.0 in	A20P20	**32FT35**
18.2 in	14.2 in	CP2016	**32FK14**
18.2 in	18.2 in	CP2020	**32FK16**
21.0 in	13.0 in	A24P16	**32FT37**
21.0 in	17.0 in	A24P20	**32FT40**
21.0 in	21.0 in	A24P24	**32FT44**
22.2 in	14.2 in	CP2416	**32FK18**
22.2 in	18.2 in	CP2420	**32FK20**
22.2 in	22.2 in	CP2424	**32FK22**
27.0 in	17.0 in	A30P20	**32FT48**
27.0 in	21.0 in	A30P24	**32FT50**
27.0 in	27.0 in	A30P30	**32FT54**
28.2 in	18.2 in	CP3020	**32FK25**
28.2 in	22.2 in	CP3024	**32FK26**
28.2 in	28.2 in	CP3030	**32FK28**
33.0 in	21.0 in	A36P24	**32FT55**
33.0 in	27.0 in	A36P30	**32FT57**
33.0 in	33.0 in	A36P36	**32FT61**
34.2 in	22.2 in	CP3624	**32FK30**
34.2 in	28.2 in	CP3630	**32FK32**
34.2 in	34.2 in	CP3636	**32FK34**
37.0 in	29.0 in	A40P30	**32FT62**
39.0 in	21.0 in	A42P24	**32FT63**
39.0 in	27.0 in	A42P30	**32FT64**
39.0 in	33.0 in	A42P36	**32FT66**
40.2 in	34.2 in	CP4236	**32FK37**
44.0 in	44.0 in	A48P48	**32FT72**
45.0 in	21.0 in	A48P24	**32FT68**
45.0 in	27.0 in	A48P30	**32FT69**
45.0 in	33.0 in	A48P36	**32FT70**
46.2 in	22.2 in	CP4824	**32FK38**
46.2 in	34.2 in	CP4836	**32FK39**
56.0 in	44.0 in	A60P48	**32FR56**
56.0 in	56.0 in	A60P60	**32FR58**
57.0 in	33.0 in	A60P36	**32FT73**
58.2 in	34.2 in	CP6036	**32FK41**
68.0 in	56.0 in	A72P60	**32FR60**
69.0 in	33.0 in	A72P36	**32FT75**



Disconnect Switch
4B983

SQUARE D by Schneider Electric

Flange-Mounted Disconnect Switches

Complete kit requires a disconnect switch, handle, and door-closing mechanism.

NONFUSIBLE AND FUSIBLE MECHANISMS

- Include disconnect switch and operating mechanism; handle sold separately

UL 98 Listed and suitable as the main disconnect switch for a control panel. Ship assembled for right-hand operation, but can be easily converted to left-hand with no additional parts.

DOOR-CLOSING MECHANISMS

- Operating mechanism only; disconnect switch and handle sold separately

Primarily for flange-mounted disconnect switches and circuit breaker operating mechanisms, but can be used independently. For small- and medium-size single-door control enclosures.

30 AA		60 AA		100 AA		200 AA	
Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Nonfusible Mechanisms							
9422TCN30	**3KK34**	9422TDN60	**2ETH7**	9422TEN10	**2ETH8**	9422TF1	**4B983**
Fusible Mechanisms (Class H,K,J,R Fuses)							
9422TCF30	**2VRN5**	9422TDF63	**3KK37**	9422TEF10	**3KK38**	9422TF2	**4B982**

Description	Mfr. Model	Item No.
6" Handles For Use With All NEMA Enclosures		
For Use With NEMA Steel Enclosures	9422A1	**4B989**
For Use With NEMA SS Enclosures	9422A2	**4B988**
Door Closing Mechanisms Hinged Left		
For Use With NEMA 4, 12	9423M4	**4B980**
For Use With 6 in Door Latch Handle	9423M9	**4B979**
Optional 3 Point Locking for Nos. 4B980 and 4B979 Door Latches	9423M3	**4B981**

4B995

Schneider Electric

Door-Mount, Nonfusible Load Break Switches

- 3-pole

For applications where motor branch circuit protection is provided upstream of the switch. UL 508 nonfusible load break switches; UL 508 Listed as manual motor controllers. Complete with mounting handle operator, 13" shaft, door interlock plate, and line terminal shroud.

Amps AC	HP @ 240V	HP @ 480V	HP @ 600V	Mfr. Model	Item No.
Mechanisms					
20 A	5 hp	10 hp	10 hp	VCCF1	**4B996**
25 A	5 hp	10 hp	15 hp	VCCF2	**4B995**
45 A	15 ½ hp	30 hp	40 hp	VCCF3	**4B994**

Description	For Use With	Mfr. Model	Item No.
Add-On Contact Modules			
Main Pole	Vario Model V1	VZ1	**4B993**
Main Pole	Vario Model V2	VZ2	**4B992**
Auxiliary Contact, 1NO/1NC	Vario Motor Control Switch	VZ7	**4B990**

6UUJ9

RITTAL Hoffman

Oiltight Hole Seals

Provide a seal for unused push-button or conduit holes.
Carbon Steel have a gray powder-coat finish. Rated NEMA 12.

Conduit Size (in.)	Hole Dia. (in.)	CARBON STEEL Item No.	STAINLESS STEEL Item No.	Conduit Size (in.)	Hole Dia. (in.)	CARBON STEEL Item No.	STAINLESS STEEL Item No.
Rittal				**Hoffman**			
½	⅞	**6UUK0**	—	½	⅞	**32FF56**	**32FF57**
¾	1¹⁄₁₆	**6UUK1**	—	¾	1¹⁄₁₆	**32FF58**	**32FF59**
1	1⅜	**6UUK3**	—	1	1⅜	**32FF60**	**32FF61**
1¼	1¹¹⁄₁₆	**6UUK4**	—	1¼	1¹¹⁄₁₆	**32FF62**	**32FF63**
1½	2	**6UUK5**	—	1½	2	**32FF64**	**32FF65**
2	2½	**6UUK6**	—	2	2½	**32FF66**	**32FF67**
2½	3	**6UUK7**	—	2½	3	**32FF68**	—
3	3⅝	**6UUK8**	—	3	3⅝	**32FF69**	—
3½	4⅛	**6UUK9**	—	3½	4⅛	**32FF70**	—
4	4⅝	**6UUL0**	—	4	4⅝	**32FF71**	—
22mm	⅞	**6UUJ9**	—	22mm	⅞	**32FF73**	**32FF74**
30mm	1¼	**6UUK2**	—	30mm	1¼	**32FF72**	**32FF75**
Condensate Drain		**6UUL1**	—				

32FC79

Hoffman

Fiberglass Enclosures

- NEMA 4, 4X, 12, and 13
- IP66

These enclosures are durable in corrosive environments. Compression-molded fiberglass has outstanding chemical- and temperature-resistance, and is easily punched, drilled, filed, or sawed. Gasket assures water-tight and dust-tight seal. Corner latches provide unobstructed access. The continuous hinge provides a secure seal, and double-latching creates added security. Fiberglass material is light-gray inside and out.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel*	SOLID COVER WITH QUICK RELEASE LATCH Mfr. Model	SOLID COVER WITH QUICK RELEASE LATCH Item No.	COVER WITH QUICK RELEASE LATCH Mfr. Model	COVER WITH QUICK RELEASE LATCH Item No.	SOLID COVER WITH SCREW COVER Mfr. Model	SOLID COVER WITH SCREW COVER Item No.
6 in	6 in	4 in	32FR66	A664CHQRFG	**32FC94**	—	—	A664CHSCFG	**32FC95**
8 in	6 in	4 in	32FR93	A864CHQRFG	**32FC96**	A864CHQRFGW	**32FC97**	A864CHSCFG	**32FC98**
10 in	8 in	6 in	32FR67	A1086CHQRFG	**32FC79**	A1086CHQRFGW	**32FC80**	A1086CHSCFG	**32FC81**
12 in	10 in	6 in	32FR63	A12106CHQRFG	**32FC82**	A12106CHQRFGW	**32FC83**	A12106CHSCFG	**32FC84**
14 in	12 in	8 in	32FR80	A14128CHQRFG	**32FC85**	A14128CHQRFGW	**32FC86**	A14128CHSCFG	**32FC87**
16 in	14 in	8 in	32FR69	A16148CHQRFG	**32FC88**	A16148CHQRFGW	**32FC89**	A16148CHSCFG	**32FC90**
18 in	16 in	10 in	32FT29	A181610CHQRFG	**32FC91**	A181610CHQRFGW	**32FC92**	A181610CHSCFG	**32FC93**

** Interior panels sold separately; see page 289.*

J Series Nonmetallic Enclosures

- Fiberglass
- Rated: NEMA 4X, 6P, 12
- Hinged covers

Designed for general electrical and electronic applications and any application that has associated environmental concerns. Built-in mounting capabilities and the strength characteristics associated with a protective wraparound cover. They enhance any instrument installation.

52XE79

52XC04

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	SCREW-DOWN CLOSURE Light Gray Mfr. Model	Item No.	SCREW-DOWN CLOSURE White Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE Light Gray Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE White Mfr. Model	Item No.
6 in	4 in	4 in	None	—	—	HW-WHJ60404CHSCWW	**52XE81**	—	—	HW-WHJ60404CHQRWW	**52XE80**
6 in	6 in	4 in	52XC69, 52XC70 or 52XC71	HW-J60604CHSCWW	**52XC34**	HW-WHJ60604CHSCWW	**52XE83**	HW-J60604CHQRWW	**52XC32**	HW-WHJ60604CHQRWW	**52XE82**
8 in	6 in	4 in	52XC72, 52XC73 or 52XC74	HW-J80604CHSCWW	**52XC42**	HW-WHJ80604CHSCWW	**52XE85**	HW-J80604CHQRWW	**52XC40**	HW-WHJ80604CHQRWW	**52XE84**
10 in	8 in	4 in	52XC50, 52XC51 or 52XC52	HW-J100804CHSCWW	**52XA77**	HW-WHJ100804CHSCWW	**52XE69**	HW-J100804CHQRWW	**52XA75**	HW-WHJ100804CHQRWW	**52XE68**
12 in	10 in	4 in	included in following items 52XC53, 52XC54 or 52XC55	—	—	—	—	—	—	HW-WHJ121005CHQRWW	**52XE70**
12 in	10 in	4 in	52XC53, 52XC54 or 52XC55	—	—	HW-WHJ121005CHSCWW	**52XE71**	—	—	—	—
12 in	10 in	5 in	52XC53, 52XC54 or 52XC55	—	—	—	—	HW-J121005CHQRWW	**52XA83**	—	—
12 in	10 in	6 in	52XC53, 52XC54 or 52XC55	HW-J121005CHSCWW	**52XA85**	—	—	—	—	—	—
14 in	12 in	6 in	52XC56, 52XC57 or 52XC58	HW-J141206CHSCWW	**52XA94**	HW-WHJ141206CHSCWW	**52XE73**	HW-J141206CHQRWW	**52XA92**	HW-WHJ141206CHQRWW	**52XE72**
16 in	14 in	6 in	52XC59, 52XC60 or 52XC61	HW-J161406CHSCWW	**52XC06**	HW-WHJ161406CHSCWW	**52XE75**	HW-J161406CHQRWW	**52XC04**	HW-WHJ161406CHQRWW	**52XE74**
18 in	16 in	8 in	52XC62, 52XC63 or 52XC64	HW-J181608CHSCWW	**52XC15**	HW-WHJ181608CHSCWW	**52XE77**	HW-J181608CHQRWW	**52XC13**	HW-WHJ181608CHQRWW	**52XE76**
20 in	16 in	8 in	52XC65, 52XC66 or 52XC68	HW-J201608CHSCWW	**52XC23**	HW-WHJ201608CHSCWW	**52XE79**	HW-J201608CHQRWW	**52XC21**	HW-WHJ201608CHQRWW	**52XE78**

J Series Nonmetallic Enclosures With Window

- Fiberglass
- NEMA 4X, 6P, and 12
- Hinged covers

These enclosures are ideal for general electrical and electronic applications and any applications that are associated with environmental concerns. They feature window and built-in mounting capabilities with the strength characteristics associated with a protective wraparound cover.

52XC12

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	LIFT OFF COVER, 4 SCREWS Mfr. Model	Item No.	SCREW-DOWN CLOSURE Mfr. Model	Item No.	TWIST-LATCH CLOSURE Mfr. Model	Item No.	PADLOCKABLE LATCH CLOSURE Mfr. Model	Item No.
6 in	6 in	4 in	52XC69, 52XC70 or 52XC71	HW-J60604SCWWW	**52XC39**	HW-J60604CHSCWWW	**52XC35**	HW-J60604CHTLWWW	**52XC37**	HW-J60604CHQRWWW	**52XC33**
8 in	6 in	4 in	52XC72, 52XC73 or 52XC74	HW-J80604SCWWW	**52XC48**	HW-J80604CHSCWWW	**52XC43**	HW-J80604CHTLWWW	**52XC45**	HW-J80604CHQRWWW	**52XC41**
10 in	8 in	4 in	52XC50, 52XC51 or 52XC52	HW-J100804SCWWW	**52XA82**	HW-J100804CHSCWWW	**52XA78**	HW-J100804CHTLWWW	**52XA80**	HW-J100804CHQRWWW	**52XA76**
12 in	10 in	6 in	52XC53, 52XC54 or 52XC55	HW-J121005SCWWW	**52XA91**	HW-J121005CHSCWWW	**52XA86**	HW-J121005CHTLWWW	**52XA88**	HW-J121005CHQRWWW	**52XA84**
14 in	12 in	6 in	52XC53, 52XC54 or 52XC55	—	—	HW-J141206CHSCWWW	**52XA95**	—	—	—	—
14 in	12 in	6 in	52XC56, 52XC57 or 52XC58	HW-J141206SCWWW	**52XC03**	—	—	HW-J141206CHTLWWW	**52XA97**	HW-J141206CHQRWWW	**52XA93**
16 in	14 in	6 in	52XC59, 52XC60 or 52XC61	HW-J161406SCWWW	**52XC12**	HW-J161406CHSCWWW	**52XC07**	HW-J161406CHTLWWW	**52XC09**	HW-J161406CHQRWWW	**52XC05**
18 in	16 in	8 in	52XC62, 52XC63 or 52XC64	HW-J181608SCWWW	**52XC20**	HW-J181608CHSCWWW	**52XC16**	HW-J181608CHTLWWW	**52XC18**	HW-J181608CHQRWWW	**52XC14**
20 in	16 in	8 in	52XC65, 52XC66 or 52XC68	HW-J201608SCWWW	**52XC31**	HW-J201608CHSCWWW	**52XC24**	HW-J201608CHTLWWW	**52XC25**	HW-J201608CHQRWWW	**52XC22**

RJ Series Nonmetallic Enclosures

- Fiberglass
- NEMA 4X, 6P, and 12
- Hinged covers
- Light Gray

These enclosures are engineered with a poured polyurethane seamless gasket that provides a watertight and dust-tight environmental seal. Molded-in panel flange.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	Mfr. Model	Item No.
6 in	4 in	6 in	None	HW-RHJ60405CHQRWW	**52XE64**
6 in	6 in	6 in	52XC69, 52XC70 or 52XC71	HW-RHJ60606CHQRWW	**52XE65**
8 in	6 in	6 in	52XC72, 52XC73 or 52XC74	HW-RHJ80606CHQRWW	**52XE66**
8 in	8 in	6 in	HW-MP808CSWW, HW-MP808FGWW, Mfr. No. HW-MP808AWW	HW-RHJ80806CHQRWW	**52XE67**
10 in	8 in	6 in	52XC50, 52XC51 or 52XC52	HW-RHJ100806CHQRWW	**52XE57**
12 in	10 in	6 in	52XC53, 52XC54 or 52XC55	HW-RHJ121006CHQRWW	**52XE58**
12 in	12 in	8 in	None	HW-RHJ121207CHQRWW	**52XE59**
14 in	12 in	8 in	52XC56, 52XC57 or 52XC58	HW-RHJ141207CHQRWW	**52XE60**
16 in	14 in	8 in	52XC59, 52XC60 or 52XC61	HW-RHJ161407CHQRWW	**52XE61**
18 in	16 in	10 in	52XC62, 52XC63 or 52XC64	HW-RHJ181610CHQRWW	**52XE62**
20 in	16 in	10 in	52XC65, 52XC66 or 52XC68	HW-RHJ201610CHQRWW	**52XE63**

52XE63

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	OPAQUE COVER Mfr. Model	Item No.	CLEAR COVER Mfr. Model	Item No.
2 in	2 in	2 in	HW-S605055WW	**52XD74**	HW-S605055SWW	**52XD75**
3 in	3 in	2 in	HW-S808005WW	**52XD84**	HW-S808005CCWW	**52XD85**
3 in	3 in	3 in	HW-S808009WW	**52XD86**	—	—
3 in	3 in	4 in	HW-S808010WW	**52XD89**	—	—
4 in	2 in	2 in	—	—	HW-S906003CCWW	**52XD92**
4 in	3 in	1 in	HW-S906003WW	**52XD91**	—	—
5 in	3 in	2 in	HW-S1208055WW	**52XD02**	HW-S1208055CWW	**52XD03**
5 in	3 in	2 in	—	—	HW-S1208055CCWW	**52XD04**
5 in	3 in	3 in	HW-S1208080WW	**52XD05**	—	—
5 in	5 in	2 in	HW-S12012055WW	**52XC97**	—	—
5 in	5 in	3 in	HW-S12012075WW	**52XC99**	HW-S12012075CCWW	**52XD01**
5 in	5 in	4 in	HW-S120120110WW	**52XC95**	HW-S120120110CCWW	**52XC96**
6 in	3 in	2 in	HW-S1608055WW	**52XD22**	—	—
6 in	3 in	4 in	HW-S1608090WW	**52XD24**	HW-S1608090CCWW	**52XD25**
6 in	5 in	2 in	HW-S16012055WW	**52XD16**	HW-S16012055CCWW	**52XD17**
6 in	5 in	3 in	HW-S16012090WW	**52XD20**	HW-S16012090CCWW	**52XD21**
6 in	5 in	5 in	HW-S160120140WW	**52XD14**	HW-S160120140CCWW	**52XD15**
8 in	5 in	3 in	HW-S20012075WW	**52XD28**	HW-S20012075CCWW	**52XD29**
8 in	5 in	4 in	HW-S20012090WW	**52XD30**	—	—
8 in	6 in	4 in	HW-S200150100WW	**52XD32**	HW-S200150100CCWW	**52XD33**
8 in	6 in	5 in	HW-S200150130WW	**52XD34**	HW-S200150130CCWW	**52XD35**
10 in	6 in	3 in	HW-S25016090WW	**52XD54**	—	—
10 in	6 in	4 in	HW-S250160110WW	**52XD48**	—	—
10 in	6 in	5 in	HW-S250160120WW	**52XD50**	HW-S250160120CCWW	**52XD51**
10 in	6 in	6 in	HW-S250160150WW	**52XD52**	HW-S250160150CCWW	**52XD53**
12 in	10 in	3 in	HW-S30023085WW	**52XD70**	—	—
12 in	10 in	4 in	HW-S300230110WW	**52XD68**	—	—

Clear Cover

S Series Nonmetallic Enclosures

- Polycarbonate
- Screw-on covers

Constructed with foam gasket, these enclosures are lightweight and watertight. They include accessory hardware bag and are designed for wall mounting.

52XC75

52XC77

N Series NEMA 4X Nonmetallic Control Enclosures

STAHLIN

- Fiberglass
- NEMA 4X, 12
- Stainless steel hinge
- Latch down cover

Designed to accommodate electrical, electronic, instrumentation, and mechanical controls indoors and outdoors to provide protection against windblown dust and rain, splashing and hose directed water.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Interior Panel	OPAQUE COVER Mfr. Model	OPAQUE COVER Item No.	CLEAR COVER Mfr. Model	CLEAR COVER Item No.
20 in	16 in	8 in	52XD93 or 52XD94	HW-N4X201608CHWW	52XC75	—	—
20 in	16 in	10 in	52XD93 or 52XD94	HW-N4X201610CHWW	52XC76	HW-N4X201610CHWWW	52XC77
24 in	20 in	8 in	52XD95 or 52XD96	HW-N4X242008CHWW	52XC78	HW-N4X242008CHWWW	52XC79
30 in	20 in	8 in	52XD97 or 52XD98	HW-N4X302008CHWW	52XC80	—	—
30 in	20 in	10 in	52XD97 or 52XD98	HW-N4X302010CHWW	52XC81	HW-N4X302010CHWWW	52XC82
36 in	30 in	10 in	52XD99 or 52XE01	HW-N4X363010CHWW	52XC83	—	—
36 in	30 in	12 in	52XD99 or 52XE01	HW-N4X363012CHWW	52XC84	HW-N4X363012CHWWW	52XC85
48 in	36 in	12 in	52XE02 or 52XE03	HW-N4X483612CHWW	52XC86	HW-N4X483612CHWWW	52XC87

52XA72

STAHLIN

DuraBoxx® Series Nonmetallic Enclosures

- Fiberglass
- NEMA 4X, 6P, and 12
- Screw-on covers

Designed for durable performance in both commercial and industrial indoor and outdoor environments like mining, oil, gas, wastewater treatment, and petro-chem. Sleek design with shallow depths and flush cover construction makes them well suited for high-end electronic applications like wireless communications and operator interfaces.

Nominal Enclosure Height	Nominal Enclosure Width	Nominal Enclosure Depth	Enclosure Cover Features	Mfr. Model	Item No.
5 in	5 in	4 in	Opaque	HW-D554SCWW	52XA70
5 in	5 in	4 in	Clear	HW-DCC554WWW	52XA72
5 in	9 in	3 in	Clear	HW-DCC593WWW	52XA73
5 in	9 in	3 in	Clear	HW-DCC594WWW	52XA74
6 in	6 in	4 in	Opaque	HW-D774SCWW	52XA71

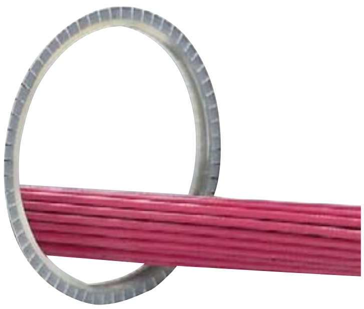
6C739

HUBBELL WIEGMANN

Electrical Enclosure Window and Louver Plate Kits

Easy to install: Simply make a cutout in the enclosure and attach the window or louver and frame. All necessary hardware included.

Window Height (in.)	Window Width (in.)	Frame Height	Frame Width	Cut Out Height	Cut Out Width	Item No.
Steel Window Kits, For NEMA 12 Enclosures, ANSI 61 Polyester Powder Finish, Fully Gasketed						
5.00	3.00	7.5 in	5 ½ in	6.69 in	4.69 in	4KP44
9.00	5.50	11.5 in	8 ½ in	10.69 in	7.19 in	4KP46
13.0	8.00	15.5 in	10 ½ in	14.69 in	9.69 in	4KP48
Type 304 Stainless Steel Window Kit, For NEMA 12 and 13 Enclosures, Fully Gasketed						
13.0	8.00	15.5 in	10 ½ in	14.69 in	9.69 in	4KP49
14-Ga. Steel Louver Plate Kits, ANSI Enamel Finish						
—	—	4.75 in	4 ½ in	3.5 in	3.25 in	2AAR6
3.00	4.00	4.5 in	5 ½ in	3.5 in	4.25 in	6C739
—	—	5.62 in	5 ½ in	4.37 in	4.25 in	2AAR7
4.00	6.00	5.63 in	7 ½ in	4.37 in	6.25 in	6C740
—	—	7.87 in	7 ½ in	6.62 in	6.25 in	2AAR8
6.00	8.00	8.19 in	9 ½ in	6.93 in	8.25 in	6C741



1LLJ8

PANDUIT

Adhesive-Lined Grommet Edging

- Sold in 100-ft. lengths

Pressure-sensitive adhesive secures edging in place to protect wires and cables against chafing. Slotted-wall items are for irregularly shaped and round panel holes. Solid-wall items are for straight edges. Natural color.

Min. Panel Thickness	Max. Panel Thickness	SLOTTED Mfr. Model	SLOTTED Item No.	SOLID Mfr. Model	SOLID Item No.
0.04 in	0.062"	GEE62F-A-C	1LLJ8	GES62F-A-C	1LLJ9
0.06 in	0.099"	GEE99F-A-C	1LLK1	GES99F-A-C	1LLK2

3A922

HUBBELL WIEGMANN

Interior Panels

For use with JIC and NEMA enclosures.

H	L	Item No.	H	L	Item No.	H	L	Item No.
4.25 in	4.25 in	1ZHF9	10.25 in	10.25 in	2W822	21.0 in	17.0 in	6XC19
4.88 in	2.88 in	4LV58	10.88 in	8.88 in	6XC22	21.0 in	21.0 in	2W829
4.88 in	4.88 in	6XC20	10.88 in	10.88 in	4KP36	27.0 in	17.0 in	6C755
6.25 in	4.25 in	2W821	12.25 in	—	2W823	27.0 in	21.0 in	3A924
6.25 in	—	6C754	12.88 in	10.88 in	6XC23	33.0 in	21.0 in	3A932
6.88 in	4.88 in	3A926	13.0 in	9.0 in	2W827	33.0 in	27.0 in	3A933
6.88 in	6.88 in	6XC21	14.88 in	12.88 in	3A930	50.0 in	38.0 in	1ZHG8
8.25 in	6.25 in	3A904	17.0 in	13.0 in	2W828	60.0 in	48.0 in	1ZHG9
8.88 in	6.88 in	3A928	17.0 in	17.0 in	3A922	60.0 in	60.0 in	1ZHH1
10.25 in	8.25 in	3A937	21.0 in	13.0 in	6XC18	72.0 in	72.0 in	1ZHH3

Enclosure Air Conditioners

Hoffman

These units feature head pressure control for low ambient operation, compressor heater, coated condenser coil, malfunction switch, and thermostat and heater package. They are ideal for industrial automation, telecommunications equipment, package handing equipment, and security and defense systems.

32FP61

32FP71

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
Enclosures Rated NEMA 12						
Three-Phase						
4600/4900 BtuH	400/460	1.7/1.9	28.55 in	16.97 in	10.1 in	**32FP63**
5400/6000 BtuH	400/460	1.3/1.4	28.55 in	16.97 in	10.1 in	**32FP69**
8800/9800 BtuH	400/460	3.1/3.2	52.69 in	17.12 in	11.66 in	**32FP75**
11,100/12,000 BtuH	400/460	3.6/3.5	52.69 in	17.12 in	11.66 in	**32FP81**
21,400/23,400 BtuH	400/460	6.0/6.8	57.69 in	20.87 in	15.28 in	**32FP83**
Single-Phase						
908/1023 BtuH	110/115	4.1/3.9	17.64 in	12 in	8.4 in	**32FP57**
969/1184 BtuH	220/208-230	2.3/2.1	17.64 in	12 in	8.4 in	**32FP56**
969/1184 BtuH	400/460	1.2/1.2	22.14 in	12 in	8.4 in	**32FP87**
1500/1800 BtuH	110/115	7.0/7.1	17.64 in	12 in	8.4 in	**32FP59**
1513/1727 BtuH	220/208-230	4.0/3.6 to 3.5	17.64 in	12 in	8.4 in	**32FP58**
1513/1727 BtuH	400/460	2.0/2.0	22.14 in	12 in	8.4 in	**32FP88**
2200/2200 BtuH	115	9.8/9.0	10.25 in	17 in	21.08 in	**32FP29**
2200/2200 BtuH	220/230	5.5/4.6	10.25 in	17 in	21.08 in	**32FP28**
3300/4000 BtuH	110/115	14.7/13.6	10.25 in	17 in	21.08 in	**32FP31**
3300/4000 BtuH	220/230	8.0/7.5	10.25 in	17 in	21.08 in	**32FP30**
3800/4000 BtuH	115	11.7/10.3	28.55 in	16.97 in	10.1 in	**32FP61**
4600/4900 BtuH	230	4.6/5.8	28.55 in	16.97 in	10.1 in	**32FP84**
6000/6400 BtuH	115	9.9/11.4	28.55 in	16.97 in	10.1 in	**32FP67**
6000/6400 BtuH	230	4.6/5.8	28.55 in	16.97 in	10.1 in	**32FP65**
7075/8133 BtuH	230	9.4/10.2	15.25 in	17 in	25.19 in	**32FP33**
7300/8200 BtuH	115	11.2/12.3	52.69 in	17.12 in	11.66 in	**32FP73**
7300/8200 BtuH	230/208-230	5.6/7.0 to 6.2	52.69 in	17.12 in	11.66 in	**32FP71**
12,000/12,500 BtuH	115	16.1/21	52.69 in	17.12 in	11.66 in	**32FP79**
12,000/12,500 BtuH	230/208-230	9.1/10.6 to 9.5	52.69 in	17.12 in	11.66 in	**32FP77**
19,000/20,500 BtuH	230	19.0/22.0	57.69 in	20.87 in	15.28 in	**32FP85**

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
Enclosures Rated NEMA 4X						
Three-Phase						
4600/4900 BtuH	400/460	1.7/1.9	28.55 in	16.97 in	10.1 in	**32FP64**
5400/6000 BtuH	400/460	1.7/1.9	28.55 in	16.97 in	10.1 in	**32FP70**
8800/9800 BtuH	400/460	3.1/3.2	52.69 in	17.12 in	11.66 in	**32FP76**
11,100/12,000 BtuH	400/460	3.6/3.5	52.69 in	17.12 in	11.66 in	**32FP82**
21,400/23,400 BtuH	400/460	6.0/6.8	57.69 in	20.87 in	15.28 in	**32FP86**
Single-Phase						
1800/2000 BtuH	115	7	20 in	10 in	9.9 in	**32FP27**
3800/4000 BtuH	115	11.7/10.3	28.55 in	16.97 in	10.1 in	**32FP62**
4600/4900 BtuH	230	4.6/5.8	28.55 in	16.97 in	10.1 in	**32FP60**
6000/6400 BtuH	115	9.9/11.4	28.55 in	16.97 in	10.1 in	**32FP68**
6000/6400 BtuH	230	4.6/5.8	28.55 in	16.97 in	10.1 in	**32FP66**
7300/8200 BtuH	115	11.2/12.3	52.69 in	17.12 in	11.66 in	**32FP74**
7300/8200 BtuH	230/208-230	5.6/7.0 to 6.2	52.69 in	17.12 in	11.66 in	**32FP72**
12,000/12,500 BtuH	115	16.1/21.0	52.69 in	17.12 in	11.66 in	**32FP80**
12,000/12,500 BtuH	230/208-230	9.1/10.6 to 9.5	52.69 in	17.12 in	11.66 in	**32FP78**

Enclosure Air Conditioners—NEMA 12 and 4X

RITTAL

- Adjustable temp. setpoint: 68° to 131°F (except 2PUX6 and 2PUX7)
- Status display includes enclosure temperature
- Terminal-block connection

Condenser coil is coated to stay cleaner for consistent performance even in harsh environments. Feature icing protection, startup delay, and connection for a door limit switch. Side-mount models feature air inlets and outlets positioned for optimal heat dissipation.

Wall-mount units greater than 3600 BtuH and all top-mount units have an integrated condensate evaporator. Roof-mount models feature 4 cold-air outlets and a central hot-air inlet.

2PUX6 and 2PUX7 have basic display and controls with overtemperature alarm, and can only be set down to 86°F. All others feature configurable alarm, logging capability, master-slave operation for up to 10 units. 3-phase units include phase monitoring.

2PUX8

2PUZ7

2PVA8

2PVD5

Cooling Cap.	Voltage	Phase	Amps	H	W	D	Item No.
Enclosure Air Conditioners, NEMA 12							
Wall Mount							
1093 BtuH	115	Single	3.3	22 in	11 in	6 in	**2PUX6** *†‡
1093 BtuH	230	Single	1.6/1.7	22 in	11 in	6 in	**2PUX7** †‡
2083 BtuH	115	Single	5.7	22 in	11 in	8 in	**2PUX8** *†
2083 BtuH	230	Single	2.6	22 in	11 in	8 in	**2PUX9** †
2664 BtuH	115	Single	5.3	22 in	11 in	11 in	**2PUY1** *†
2664 BtuH	230	Single	2.7/2.7	22 in	11 in	11 in	**2PUY2** †
3620 BtuH	115	Single	10.6/11.1	37 in	16 in	10 in	**2PUY3**
3620 BtuH	230	Single	5.4/5	37 in	16 in	10 in	**2PUY4**
3620 BtuH	400/460	Three	2.5/2.6	37 in	16 in	10 in	**2PUY5**
5119 BtuH	110-240/380-480V AC	—	—	37 in	16 in	12 in	**56DY99**
5157 BtuH	115	Single	11.5/12.5	37 in	16 in	10 in	**2PUY6**
5157 BtuH	230	Single	5.5/5.8	37 in	16 in	10 in	**2PUY7**
5157 BtuH	400/460	Three	2.8/2.9	37 in	16 in	10 in	**2PUY8**
6824 BtuH	110-240/380-480V AC	—	—	63 in	18 in	12 in	**56DZ01**
8026 BtuH	115	Single	13.4/14.8	62 in	16 in	11 in	**2PUY9**
8026 BtuH	230	Single	6.1/6.6	62 in	16 in	11 in	**2PUZ1**
8026 BtuH	400/460	Three	2.8/3.3	62 in	16 in	11 in	**2PUZ2**
9392 BtuH	115	Single	17/22	62 in	16 in	11 in	**2PUZ3**
9392 BtuH	230	Single	8.2/9.3	62 in	16 in	11 in	**2PUZ4**
9392 BtuH	400/460	Three	3.7/3.8	62 in	16 in	11 in	**2PUZ5**
9553 BtuH	110-240/380-480V AC	—	—	63 in	18 in	12 in	**56DZ02**
14,343 BtuH	380-480V AC	—	—	63 in	18 in	15 in	**56DZ03**
15,027 BtuH	400/460	Three	4.2/4.2	62 in	20 in	13 in	**2PUZ6**
19,808 BtuH	380-480V AC	—	—	63 in	18 in	15 in	**56DZ04**
Roof Mount							
1742 BtuH	115	Single	4.7/5.4	16 in	24 in	15 in	**2PUZ7**
1742 BtuH	230	Single	2.3/2.6	16 in	24 in	15 in	**2PUZ8**
3688 BtuH	115	Single	6.2/8.4	16 in	24 in	19 in	**2PUZ9**
3688 BtuH	230	Single	2.9/3.9	16 in	24 in	19 in	**2PVA1**
5191 BtuH	115	Single	8.5/15.3	16 in	24 in	19 in	**2PVA2**
5191 BtuH	230	Single	3.9/4.8	16 in	24 in	19 in	**2PVA3**
7274 BtuH	115	Single	14.2/15.4	16 in	24 in	19 in	**2PVA4**
7274 BtuH	230	Single	5.9/6.3	16 in	24 in	19 in	**2PVA5**
11,270 BtuH	400/460	Three	3.4/3.4	19 in	31 in	23 in	**2PVA6**
14,346 BtuH	400/460	Three	3.9/3.9	19 in	31 in	23 in	**2PVA7**

** 60 Hz only. † No condensate evaporator. ‡ Basic controller.*

Cooling Cap.	Voltage	Phase	Amps	H	W	D	Item No.
Enclosure Air Conditioners, NEMA 4X							
Wall Mount							
2252 BtuH	115	Single	5.7	24 in	11 in	12 in	**2PVA8** *†
2252 BtuH	230	Single	2.6/2.6	24 in	11 in	12 in	**2PVA9** †
3753 BtuH	115	Single	10.6/11.1	40 in	16 in	14 in	**2PVC1**
3753 BtuH	230	Single	3.9/4.3	40 in	16 in	14 in	**2PVC2**
3753 BtuH	400/460	Three	2.2/2.1	40 in	16 in	14 in	**2PVC3**
5459 BtuH	115	Single	12.1/13.6	40 in	16 in	14 in	**2PVC4**
5459 BtuH	400/460	Three	2.6/2.8	40 in	16 in	14 in	**2PVC6**
7506 BtuH	230	Single	6.1/6.6	65 in	16 in	15 in	**2PVC8**
7506 BtuH	400/460	Three	2.8/3.3	65 in	16 in	15 in	**2PVC9**
8701 BtuH	230	Single	8.2/9.3	65 in	16 in	15 in	**2PVD2**
8701 BtuH	400/460	Three	3.7/3.8	65 in	16 in	15 in	**2PVD3**
Heat Exchangers, NEMA 12							
2047/2388 BtuH	230V DC	—	—	20 in	8 in	4 in	**56DZ06**
10,236 BtuH	115V DC	—	—	37 in	16 in	6 in	**56DZ05**
17,060 BtuH	230V DC	—	—	55 in	18 in	9 in	**56DZ07**

For Use With	Material	Mfr. Model	Item No.
Electrical Enclosure Air Conditioners Accessories			
Filters			
2PUX6, 2PUX7, 2PUX8, 2PUX9, 2PUY1, 2PUY2	Aluminum	3286310	**2PVD5**
	Polyurethane	3286300	**2PVD4**
2PUY3, 2PUY4, 2PUY5, 2PUY6, 2PUY7, 2PUY8, 2PUY9, 2PUZ1, 2PUZ2, 2PUZ3, 2PUZ4, 2PUZ5, 2PUZ6	Aluminum	3286410	**2PVD7**
	Polyurethane	3286400	**2PVD6**
2PUZ7, 2PUZ8, 2PUZ9, 2PVA1, 2PVA2, 2PVA3, 2PVA4, 2PVA5	Aluminum	3286510	**2PVD9**
	Polyurethane	3286500	**2PVD8**
—	—	3285900	**56DY95**
	—	3285910	**56DY96**
Door-Operated Switches			
2PUX6, 2PUX7, 2PUX8, 2PUX9, 2PUY1, 2PUY2, 2PUY3, 2PUY4, 2PUY5, 2PUY6, 2PUY7, 2PUY8, 2PUY9, 2PUZ1, 2PUZ2, 2PUZ3, 2PUZ4, 2PUZ5, 2PUZ6, 2PUZ7, 2PUZ8, 2PUZ9, 2PVA1, 2PVA2, 2PVA3, 2PVA4, 2PVA5, 2PVA6, 2PVA7, 2PVA8, 2PVA9, 2PVD3, PVC1, PVC2, PVC3, PVC4, PVC5, PVC6, PVC7, PVC8, PVC9, PVD1, PVD2	—	4127010	**2PVG5**

Enclosure Filter Fans

Hoffman

Feature click-fit design to quickly install into enclosure wall with no tools or screws required. They open with a flick of the finger for easy filter replacement.

53DD94

CFM @ 0.000" SP	Fan Height	Fan Width	Fan Depth	115 V AC Mfr. Model	115 V AC Item No.	24 V DC Mfr. Model	24 V DC Item No.	230 V AC Mfr. Model	230 V AC Item No.	230VAC Mfr. Model	230VAC Item No.
Wet-Location Square Axial Fan											
21	4 27⁄64"	4 27⁄64"	3⅝"	HF0416414	**53DE04**	—	—	HF0426414	**53DD99**	—	—
35	6 9⁄64"	6 9⁄64"	4"	HF0516414	**53DE03**	HF0524414	**53DD93**	HF0526414	**53DE07**	—	—
70	8 3⁄16"	8 3⁄16"	4 3⁄16"	HF0916414	**53DD98**	—	—	HF0926414	**53DE05**	—	—
159	10⅛"	10⅛"	4 11⁄16"	HF1016414	**53DD94**	—	—	HF1026414	**53DE06**	—	—
395	12 51⁄64"	12 51⁄64"	6⅜"	HF1316414R	**53DD97**	—	—	HF1326414R	**53DD95**	—	—
484	12 51⁄64"	12 51⁄64"	6⅜"	HF1316424	**53DD90**	—	—	—	—	—	—
Exhaust Grill and Filter											
—	12.8 in	1.75 in	12.82 in	—	—	—	—	—	—	HG1300404	**53DD91**
—	10.13 in	1.69 in	10.14 in	—	—	—	—	—	—	HG1000404	**53DD92**
—	8.19 in	1.65 in	8.21 in	—	—	—	—	—	—	HG0900404	**53DD96**
—	6.15 in	1.53 in	6.16 in	—	—	—	—	—	—	HG0500404	**53DE01**
—	4.42 in	1.6 in	4.44 in	—	—	—	—	—	—	HG0400404	**53DE02**

Hoffman

Thermo-Electric Enclosure Coolers

32FP91

Minimize downtime and component loss by removing heat around critical components within an enclosure. Compact and low-profile coolers use the Peltier effect to allow cooling of small indoor and outdoor enclosures without a compressor.

Cooling Cap.	Voltage	Amps	H	W	D	Item No.
321 BtuH	24V DC	8.5	12.01 in	6.18 in	7.17 in	**32FP91**
321 BtuH	48V DC	4.4	12.01 in	6.18 in	7.17 in	**32FP92**
567 BtuH	24V DC	14.7	15.94 in	7.36 in	7.01 in	**32FP93**

Hoffman

Enclosure Heaters

Enclosure Heaters

Provide freeze and condensation protection in cabinets, control panels, and other enclosures.

Watts	H	W	L	120V AC Item No.	240V AC Item No.
100 W	5 ½ in	4 in	4 13⁄16 in	**32FL34**	—
200 W	5 ½ in	4 in	4 13⁄16 in	**32FK99**	**32FK96**
400 W	7 ½ in	4 ¼ in	5 3⁄16 in	**32FL01**	**32FK97**
800 W	7 ½ in	4 ¼ in	5 3⁄16 in	**32FL02**	**32FK98**

VORTEC

Coolers for Industrial Enclosures

13M181

6XT27

Quick Install models are 78% quieter and can be top-, side-, or front-mounted. Hazardous Location models include cold air check valve and require a separate purge system. Class I, Div.2; Groups A-D Class II, Div.2; Groups F and G Class III. All models include thermostat, 5-micron auto-drain filter, and cold air ducting kit.

BtuH	SCFM @ 100 psi	NEMA TYPE 12 Item No.	NEMA TYPE 4 Item No.	NEMA TYPE 4X Item No.	NEMA TYPE Haz. Loc. Item No.
Mechanical Thermostat, Quick Install					
1,500	25 scfm	**13M182**	**13M186**	**13M186**	**13M178**
2,500	35 scfm	**13M183**	**13M187**	**13M187**	**13M179**
5,000	70 scfm	**13M184**	**13M188**	**13M188**	**13M180**
900	15 scfm	**13M181**	**13M185**	**13M185**	**13M177**
Electric Thermostat					
1,500	25 scfm	**6XT28**	**6XT27** *	—	—
1,700	25 scfm	—	**6XT30**	**6XT32**	—
2,500	35 scfm	**6XT29**	**6XT31**	**6XT33**	—
400	8 scfm	**6XT26**	—	—	—
900	15 scfm	**6XT23**	**6XT24**	**6XT25**	—

**** Mechanical thermostat controlled.***

HUBBELL WIEGMANN

Enclosure Heaters

1ZHC1

- Anodized, extruded aluminum body
- 35mm DIN rail clip count

Heaters maintain minimum temperatures in enclosures and help prevent condensation.

WARNING: Do not mount on wooden structures. Avoid placement near heat-sensitive components.

RADIANT (15 TO 150W)

Positive temperature coefficient heaters maintain stable enclosure temperatures, promoting reliable performance and extending component life. Fitted with push-type terminal connections. Black color. Class 1 Protection; tested for grounding at 1600V.

Type	Watts	Volts/Phase	H	L	W	Mfr. Model	Item No.
Radiant	75 W	110-250 / 1	5 ½ in	7 in	2 ⅞ in	EHG075	**1ZHC1**

1ZHR3

1ZHR9

Enclosure Fans

HUBBELL WIEGMANN

- Vertical mount
- 1-phase, 50/60 Hz

MUFFIN FANS

Designed for reliable cooling of enclosures where space is limited. Glass-reinforced plastic impeller; black, die-cast aluminum housing, 24" lead wire with 90° attached plug, and wire mesh guard.

Fan Dia.	Shape	Voltage	CFM @ 0.000" SP	Watts	dBA	H	W	D	Housing Material	Item No.
Muffin Fans										
—	Square	115V AC	88/110	17/15	37	4 23⁄32 in	4 5/7 in	1 ½ in	Plastic/Steel	**1ZHR3**
—	Square	230V AC	88/110	17/15	37	4 23⁄32 in	4 5/7 in	1 ½ in	Plastic/Steel	**1ZHR4**
6"	Round	115V AC	190/235	26/35	46	6 25⁄32 in	6 7/9 in	2 in	Plastic/Steel	**1ZHR9**
6"	Round	230V AC	190/235	26/35	46	6 25⁄32 in	6 7/9 in	2 in	Plastic/Steel	**1ZHT1**
10"	Round	115V AC	547	35	55	10 in	10 in	3 ½ in	Plastic/Steel	**1ZHP9**

Radiator Connection	Material	Item No.
Replacement Muffin Fan Finger Guards, Mountable on Either Side of Fan		
4 23⁄32 in	Electroplated Nickel Chrome Steel	**1ZHV8**
6 25⁄32 in	Electroplated Nickel Chrome Steel	**1MDU5**
10 in	Electroplated Nickel Chrome Steel	**1ZHV7**

Thomas&Betts A Member of the ABB Group PANDUIT®

Wiring Ducts

- 72-in length
- PVC material

Troughs route and organize short runs of wire and cable in tight spaces. They provide a neat appearance for wiring and allow for configuration changes. They often have fingers on the sides that create slots for cables to be added, removed, or rerouted. Wiring ducts are commonly mounted inside electrical enclosures, control panels, and machines.

Screw Mount Mounting Wide Slot 53UH84

Screw Mount/ Adhesive Back Mounting Wide Slot 3EXV8

Wiring Duct Cover 3EYE3

Corner One-Piece Slotted Wiring Ducts 1LEP6

Flexible One-Piece Slotted Wiring Ducts 1LEL7

Slotted Divider Wall 2ETW4

Screw Mount Mounting Solid Wall 5ZXD1

Wiring Duct Rivet 3EYF7

Wiring Duct Cutting Tool 2ETW9

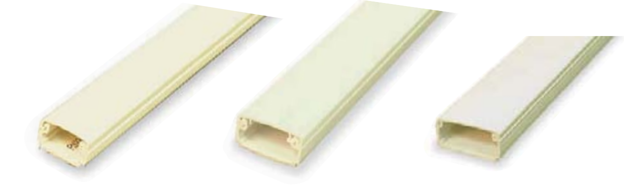
		WIDE SLOT				NARROW SLOT				WIRING DUCT COVER			
		GRAY		WHITE		GRAY		WHITE		GRAY		WHITE	
Nom. W	Nom. H	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.
Thomas & Betts													
Screw Mount Mounting Style Wiring Ducts with Snap-On Covers													
1"	2"	0.3 in	**53UH76**	0.3 in	**53UH93**	0.2 in	**53UJ11**	0.2 in	**53UJ23**	—	**53UH79**	—	**53UH96**
	3"	0.3 in	**53UH77**	0.3 in	**53UH94**	0.2 in	**53UJ12**	0.2 in	**53UJ24**	—	**53UH79**	—	**53UH96**
	4"	0.3 in	**53UH78**	0.3 in	**53UH95**	0.2 in	**53UJ13**	0.2 in	**53UJ25**	—	**53UH79**	—	**53UH96**
1½"	2"	0.3 in	**53UH80**	0.3 in	**53UH97**	0.2 in	**53UJ14**	0.2 in	**53UJ26**	—	**53UH83**	—	**53UJ01**
	3"	0.3 in	**53UH81**	0.3 in	**53UH98**	0.2 in	**53UJ15**	0.2 in	**53UJ27**	—	**53UH83**	—	**53UJ01**
	4"	0.3 in	**53UH82**	0.3 in	**53UH99**	0.2 in	**53UJ16**	0.2 in	**53UJ28**	—	**53UH83**	—	**53UJ01**
2"	2"	0.3 in	**53UH84**	0.3 in	**53UJ02**	0.2 in	**53UJ17**	0.2 in	**53UJ29**	—	**53UH87**	—	**53UJ05**
	3"	0.3 in	**53UH85**	0.3 in	**53UJ03**	0.2 in	**53UJ18**	0.2 in	**53UJ30**	—	**53UH87**	—	**53UJ05**
	4"	0.3 in	**53UH86**	0.3 in	**53UJ04**	0.2 in	**53UJ19**	0.2 in	**53UJ31**	—	**53UH87**	—	**53UJ05**
3"	3"	0.3 in	**53UH88**	0.3 in	**53UJ06**	0.2 in	**53UJ20**	0.2 in	**53UJ32**	—	**53UH90**	—	**53UJ08**
	4"	0.3 in	**53UH89**	0.3 in	**53UJ07**	0.2 in	**53UJ21**	0.2 in	**53UJ33**	—	**53UH90**	—	**53UJ08**
4"	4"	0.3 in	**53UH91**	0.3 in	**53UJ09**	0.2 in	**53UJ22**	0.2 in	**53UJ34**	—	**53UH92**	—	**53UJ10**
Panduit													
Screw Mount/Adhesive Back Mounting Style Wiring Ducts with Snap-On Covers													
1"	1"	0.3 in	**3EXV8**	—	—	0.2 in	**3EYC8**	—	—	—	**3EYE3**	—	—
	1½"	0.3 in	**3EXV7**	—	—	0.2 in	**3EYC7**	—	—	—	**3EYE3**	—	—
	2"	0.3 in	**3EXV9**	—	—	0.2 in	**3EYC9**	—	—	—	**3EYE3**	—	—
	3"	0.3 in	**3EXW1**	—	—	0.2 in	**3EYD1**	—	—	—	**3EYE3**	—	—
	4"	0.3 in	**3EXW2**	—	—	0.2 in	**3EYD2**	—	—	—	**3EYE3**	—	—
1½"	1½"	0.3 in	**3EXV3**	—	—	0.2 in	**3EYC3**	—	—	—	**3EYE1**	—	—
	2"	0.3 in	**3EXV4**	—	—	0.2 in	**3EYC4**	—	—	—	**3EYE1**	—	—
	3"	0.3 in	**3EXV5**	—	—	0.2 in	**3EYC5**	—	—	—	**3EYE1**	—	—
	4"	0.3 in	**3EXV6**	—	—	0.2 in	**3EYC6**	—	—	—	**3EYE1**	—	—
2"	2"	0.3 in	**3EXW3**	—	—	0.2 in	**3EYD3**	—	—	—	**3EYE5**	—	—
	3"	0.3 in	**3EXW4**	—	—	0.2 in	**3EYD4**	—	—	—	**3EYE5**	—	—
	4"	0.3 in	**3EXW5**	—	—	0.2 in	**3EYD5**	—	—	—	**3EYE5**	—	—
3"	3"	0.3 in	**3EXW6**	—	—	0.2 in	**3EYD6**	—	—	—	**3EYE7**	—	—
	4"	0.4 in	**3EXW7**	—	—	0.2 in	**3EYD7**	—	—	—	**3EYE7**	—	—
4"	4"	0.3 in	**3EXW8**	—	—	0.2 in	**3EYD8**	—	—	—	**3EYE9**	—	—
	5"	0.3 in	**3EXW9**	—	—	0.2 in	**3EYD9**	—	—	—	**3EYE9**	—	—
Screw Mount Mounting Style Wiring Ducts with Hinged Covers													
1½"	2"	0.3 in	**1LEN1**	0.3 in	**1LEN2**	0.2 in	**2ETX2**	0.2 in	**2ETX3**	—	**1LEN5**	—	**1LEN6**
	3"	0.3 in	**1LEN3**	—	—	0.2 in	**2ETX4**	0.2 in	**2ETX5**	—	**1LEN5**	—	**1LEN6**
2"	2"	0.3 in	**1LEN7**	0.3 in	**1LEN8**	0.2 in	**2ETX6**	—	—	—	**1LEP4**	—	**1LEP5**
	3"	0.3 in	**1LEN9**	0.3 in	**1LEP1**	0.2 in	**2ETX8**	—	—	—	**1LEP4**	—	**1LEP5**
	4"	0.3 in	**1LEP2**	0.3 in	**1LEP3**	0.2 in	**2ETY1**	—	—	—	**1LEP4**	—	**1LEP5**
3"	3"	0.3 in	**1LEP6**	0.3 in	**1LEP7**	0.2 in	**2ETY3**	—	—	—	**1LER1**	—	**1LER2**
	4"	—	—	—	—	0.2 in	**2ETY5**	—	—	—	**1LER1**	—	**1LER2**
4"	4"	0.3 in	**1LER3**	0.3 in	**1LER4**	0.2 in	**2ETY7**	—	—	—	**1LER5**	—	**1LER6**
Screw Mount Mounting Style Wiring Ducts with Snap-On Covers													
1"	1"	0.3 in	**3FVK2**	0.3 in	**3FVK4**	0.2 in	**3EXY2**	0.2 in	**3EXY3**	—	**3EYE3**	—	**3EYE4**
	1½"	0.3 in	**3FVJ8**	0.3 in	**3FVK1**	0.2 in	**3EXX9**	0.2 in	**3EXY1**	—	**3EYE3**	—	**3EYE4**
	2"	0.3 in	**3FVK5**	0.3 in	**3FVK7**	0.2 in	**3EXY4**	0.2 in	**3EXY5**	—	**3EYE3**	—	**3EYE4**
	3"	0.3 in	**3FVK9**	0.3 in	**3FVL2**	0.2 in	**3EXY6**	0.2 in	**3EXY7**	—	**3EYE3**	—	**3EYE4**
	4"	0.3 in	**3FVL4**	0.3 in	**3FVL6**	0.2 in	**3EXY8**	0.2 in	**3EXY9**	—	**3EYE3**	—	**3EYE4**
1½"	1½"	0.3 in	**3FVH2**	0.3 in	**3FVH4**	0.2 in	**3EXX1**	0.2 in	**3EXX2**	—	**3EYE1**	—	**3EYE2**
	2"	0.3 in	**3FVH6**	0.3 in	**3FVH8**	0.2 in	**3EXX3**	0.2 in	**3EXX4**	—	**3EYE1**	—	**3EYE2**
	3"	0.3 in	**3FVJ1**	0.3 in	**3FVJ2**	0.2 in	**3EXX5**	0.2 in	**3EXX6**	—	**3EYE1**	—	**3EYE2**
	4"	0.3 in	**3FVJ4**	0.3 in	**3FVJ6**	0.2 in	**3EXX7**	0.2 in	**3EXX8**	—	**3EYE1**	—	**3EYE2**
2"	2"	0.3 in	**3FVL8**	0.3 in	**3AFY1**	0.2 in	**3EXZ1**	0.2 in	**3EXZ2**	—	**3EYE5**	—	**3EYE6**
	3"	0.3 in	**3AFY3**	0.3 in	**3AFY5**	0.2 in	**3EXZ3**	0.2 in	**3EXZ4**	—	**3EYE5**	—	**3EYE6**
	4"	0.3 in	**3EXT5**	0.3 in	**3EXT6**	0.2 in	**3EXZ5**	0.2 in	**3EXZ6**	—	**3EYE5**	—	**3EYE6**
	5"	0.4 in	**3EXT7**	0.4 in	**3EXT8**	—	—	—	—	—	**3EYE5**	—	**3EYE6**
3"	3"	0.3 in	**3EXT9**	0.3 in	**3EXU1**	0.2 in	**3EXZ9**	0.2 in	**3EYA1**	—	**3EYE7**	—	**3EYE8**
	4"	0.3 in	**3EXU2**	0.4 in	**3EXU3**	0.2 in	**3EYA2**	0.2 in	**3EYA3**	—	**3EYE7**	—	**3EYE8**
	5"	0.4 in	**3EXU4**	0.4 in	**3EXU5**	0.2 in	**3EYA4**	0.2 in	**3EYA5**	—	**3EYE7**	—	**3EYE8**
4"	3"	0.3 in	**3EXU6**	0.3 in	**3EXU7**	0.2 in	**3EYA6**	0.2 in	**3EYA7**	—	**3EYE9**	—	**3EYF1**
	4"	0.3 in	**3EXU8**	0.3 in	**3EXU9**	0.2 in	**3EYA8**	0.2 in	**3EYA9**	—	**3EYE9**	—	**3EYF1**
	5"	0.4 in	**3EXV1**	0.3 in	**3EXV2**	0.2 in	**3EYC1**	0.2 in	**3EYC2**	—	**3EYE9**	—	**3EYF1**

				SLOTTED				WIRING DUCT COVER			
				GRAY		WHITE		GRAY		WHITE	
W	H	L	Pkg. Qty.	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.	Slot Width	Item No.
Panduit											
Panduit Corner Duct											
4⅜"	3 9/16"	72"	1	0.2 in	**3EYF2**	0.2 in	**3EYF4**	—	**3EYE5**	—	**3EYE6**
5 5/16"	4 9/16"	72"	1	0.2 in	**3EYF3**	0.2 in	**3EYF5**	—	**3EYE5**	—	**3EYE6**
Flexible Wiring Duct, No Cover Required											
½"	½"	19 7/10"	5	0.2 in	**1LEL7**	—	—	—	—	—	—
1"	1"	19 7/10"	5	0.2 in	**1LEL8**	—	—	—	—	—	—
2"	2"	19 7/10"	1	0.2 in	**1LEL9**	—	—	—	—	—	—

For Nominal Duct Height	L	Color	Item No.
Panduit Wiring Duct Divider Wall			
Solid			
2 in	72"	Gray	**2ETW1**
3 in	72"	Gray	**2ETW2**
4 in	72"	Gray	**2ETW3**
Slotted			
2 in	72"	Gray	**2ETW4**
3 in	72"	Gray	**2ETW5**
4 in	72"	Gray	**2ETW6**

		SOLID WALL		WIRING DUCT COVER	
		GRAY	WHITE	GRAY	WHITE
Nom. W	Nom. H	Item No.	Item No.	Item No.	Item No.
Panduit					
Screw Mount Mounting Style Wiring Ducts with Hinged Covers					
1½"	2"	**1LER7**	**1LER8**	**1LEN5**	**1LEN6**
	3"	**1LER9**	**1LET1**	**1LEN5**	**1LEN6**
2"	2"	**1LET2**	**1LET3**	**1LEP4**	**1LEP5**
	3"	**1LET4**	—	**1LEP4**	**1LEP5**
3"	3"	**1LET8**	**1LET9**	**1LER1**	**1LER2**
	4"	**1LEU1**	**1LEU2**	**1LER1**	**1LER2**
4"	4"	**1LEU3**	**1LEU4**	**1LER5**	**1LER6**
Screw Mount Mounting Style Wiring Ducts with Snap-On Covers					
2"	3"	**5ZXD4**	—	**3EYE5**	—
3"	2"	**5ZXD1**	—	**3EYE7**	—
	3"	**5ZXD2**	—	**3EYE7**	—
	4"	**5ZXD3**	—	**3EYE7**	—

Item	For Use With	Material	Color	Item No.	Pkg. Qty.
Panduit Accessories					
Divider Wall Mounting Clip	Divider Walls	Polycarbonate	Black	**2ETW7**	100
Wiring Duct Rivet	TNR Rivet Tool	Nylon	Natural	**3EYF7**	100
Nylon Rivet Installation Tool	Installing and Removing Nylon Rivets	Nylon	Black	**3EYF6**	1
Wiring Duct Cutting Tool	All Wide-Slotted Duct Types	Steel	—	**2ETW8**	1
Wiring Duct Cutting Tool	Panduct® Wiring Duct and Cover	Plastic	Silver	**2ETW9**	1
Wiring Duct Notching Tool	All Wide-Slotted Duct Types	Steel	Black	**2ETX1**	1
Thomas & Betts Accessories					
Universal Mounting Clip	Wiring Duct	Polycarbonate	Black	**1GVL4**	25



PN03 Series PN05 Series PN10 Series

legrand®

Eclipse Nonmetallic Raceway Systems

- Ivory color
- PN03 Series: 0.5"H x 0.81"W
- PN05 Series: 0.63"H x 1.13"W
- PN10 Series: 0.81"H x 1.69"W

1-pc. raceways conceal wires without tearing into existing walls. Dropceiling connectors slip over suspended ceiling grids.

Description	No. of Channels	Item No.
PN03 Series		
Raceways		
Raceway 96 in Length	1	3YE22
Raceway Fittings		
90 Degrees External Elbow	1	3YE27
90 Degrees External Elbow 1"Bend Radius	1	3YE28
90 Degrees Flat Elbow	1	3YE24
90 Degrees Internal Elbow	1	3YE26
Blank End Fitting	1	3YE29
Tee	1	3YE25
Raceway Covers		
Cover Clip	1, 2	3YE23
PN05 Series		
Raceways		
Raceway 96 in Length	1	3YE38
Raceway Fittings		
90 Degrees External Elbow	1	3YE35
90 Degrees Flat Elbow	1	3YE32
Blank End	1	3YE37
Tee	1	3YE33
Raceway Covers		
Cover Clip	1, 2	3YE31
PN10 Series		
Raceways		
Raceway 96 in Length	1	3YE40
Raceway Fittings		
90 Degrees External Elbow	1	3YE45
90 Degrees External Elbow 1"Bend Radius	1	3YE46
90 Degrees Flat Elbow	1	3YE42
Blank End	1	3YE47
Entrance End Fitting	1	3YE50
Internal Elbow	1	3YE44
Tee	1	3YE43
Raceway Covers		
Cover Clip	1, 2	3YE41
PN03, PN05, PN10 Series		
Raceway Boxes and Plates		
Data Box	2	3YU36
Device Box	2	3YE53
Power Box	2	3YE52
Small Data Box	2	3YU35

HUBBELL®

1MBK6

BaseTrak PB3 Series Nonmetallic Raceway Systems

- White Color
- 1 ⅝"H x 4 ½"W

Single and two channel latching raceways are dual-rated for both power and data applications.

UL Listed and CSA Certified to 600V.

Description	Item No.
BaseTrak PB3 Series	
Raceways	
Raceway 10 ft	1MBK6
Raceway Fittings	
External Elbow Base and Cover	1MBK9
Flat Elbow Base and Cover	1MBL3
Internal Elbow Base and Cover	1MBL4
Tee Base and Cover	1MBL6
Wire Clip	1MBL7
Raceway Boxes and Plates	
Full Capacity Box 1 Gang	1MBL1
Full Capacity Box 2 Gang	1MBL2

3YE72

legrand®

CableSmart Series Nonmetallic Raceway Systems

- White
- 2.0"H x 4.0"W

PVC systems are extremely tamper-resistant. Corner drop feed helps feed horizontal runs. Paintable.

Description	No. of Channels	Item No.
CableSmart 40N2 Series		
Raceways		
Raceway 96 in Length	2	3YE72
Raceway Fittings		
Base Seam Clip	1	3YE76
Flat Elbow	1	3YE80
Tee	1	3YE82
Internal Elbow	1	3YE84
External Elbow	1	3YE86
End Cap	1	3YE88
Divided Entrance End	1	3YE90
Wire Clip	1	3YE94
Raceway Covers		
Cover	2	3YE74
Cover Clip	2	3YE78
Raceway Boxes and Plates		
Device Box	—	3YE93

PANDUIT®

Pan-Way Surface Raceways

T-70 Series

T-45 Series

LD5 Series

- T-70 Series: 1 ¾"H x 4 1/16"W
- T-45 Series: 1 ¼"H x 1.13"W
- LD5 Series: ⅝"H x 1"W

Provides solutions for routing low voltage, fiber optic, and/or power cabling along perimeter walls. .

Description	Color	Item No.
T-70 Series		
Raceways		
Raceway 96 in Length	Off White	5ZXA1
Raceway Fittings		
Inside Corner	Off White	5ZXA3
Outside Corner	Off White	5ZXA4
Right Angle	Off White	5ZXA5
Tee	Off White	5ZXA6
Entrance End	Off White	5ZXA9
End Cap	Off White	5ZXC0
Wire Retainer	Gray	5ZXC5
Raceway Covers		
Cover Coupler	White	5ZWU7
Cover	Off White	5ZXA2
Raceway Boxes and Plates		
Plate	White	5ZWX7
T-45 Series		
Raceways		
Raceway 96 in Length	Off White	5ZWX8
Raceway Fittings		
Inside Corner	Off White	5ZWY1
Outside Corner	Off White	5ZWY2
Right Angle	Off White	5ZWY3
Tee	Off White	5ZWY4
Entrance End	Off White	5ZWY7
End Cap	Off White	5ZWY8
Raceway Covers		
Cover	Off White	5ZWX9
Cover Coupler	White	5ZWY6
Raceway Boxes and Plates		
Plate	White	5ZWX6
Offset Box	White	5ZWY9
Junction Box 1 Gang	White	5ZWZ3
Fast-Snap Box 2 Gang	White	5ZWZ5
Deep Junction Box 1 Gang	White	5ZWZ6
Deep Junction Box 2 Gang	White	5ZWZ7
LD5 Series		
Raceways		
Raceway 96 in Length	Off White	5ZXD5
Raceway Fittings		
Coupling	Off White	5ZXD6
Inside Corner	Off White	5ZXD7
Outside Corner	Off White	5ZXD8
Right Angle	Off White	5ZXD9
Tee	Off White	5ZXE0
End Cap	Off White	5ZXE1
Drop Ceiling/Entrance End	Off White	5ZXE3
LD5, T-45 Series		
Raceway Boxes and Plates		
Divided Junction Box 2 Gang	White	5ZWZ8

legrand®

400, 800 and 2300 Series Nonmetallic Raceway

4GVN6

4GVN8

800 Series

- Ivory color
- 2300 Series: 11/16"H x 2 ¼"W
- 400 Series: 7/16"H x ⅞"W
- 800 Series: 7/16"H x 1 5/16"W

Item	No. of Channels	Length	Raceway Height	Raceway Width	Item No.	Pkg. Qty.
2300 Series						
Raceways						
Raceway	1	60 in	11/16 in	2 ¼ in	4GVN8	1
Raceway Covers						
Cover Clip	1, 2	5 ½ in	11/16 in	2 ¼ in	4YER7	1
Raceway Boxes and Plates						
Device Box	2	4 ¾ in	1 ⅜ in	3 in	4GVT7	1
Device Box	2	4 ¾ in	1 ⅜ in	4 ⅞ in	4GVT8	1
Deep Device Box	2	4 ¾ in	1 ¾ in	3 in	4GVT9	1
Deep Device Box	2	4 ¾ in	1 ¾ in	4 ⅞ in	4GVU1	1
Raceway Fittings						
Entrance End	1	4 ½ in	¾ in	2 ¼ in	4GVR8	1
90 Degrees Flat Elbow	1	4 ¼ in	¾ in	2 ¼ in	4GVT1	1
Tee	1	6 in	¾ in	2 ¼ in	4GVT2	1
Internal Elbow	1	2 ½ in	¾ in	2 ¼ in	4GVT3	1
External Elbow	1	2 ½ in	¾ in	2 ¼ in	4GVT4	1
Wire Clip	1	1 in	¾ in	2 ¼ in	4YER6	1
Blank End	1	2 ¼ in	¾ in	2 ¼ in	4YER8	1
400 Series						
Raceways						
Raceway	1	60 in	7/16 in	⅞ in	4GVN6	1
Raceway Covers						
Cover Clip	1, 2	13/16 in	7/16 in	⅞ in	4YEP9	1
Raceway Fittings						
90 Degrees Flat Elbow	1	2 in	½ in	1 in	4GVP3	1
Tee	1	3 ¼ in	½ in	1 in	4GVP4	1
Internal Elbow	1	1 ½ in	½ in	1 in	4GVP6	1
90 Degrees External Elbow	1	1 ½ in	½ in	1 in	4GVP7	1
Wire Clip	1	½ in	½ in	1 in	4YEP8	1
Blank End	1	¾ in	½ in	1 in	4YER1	1
800 Series						
Raceways						
Raceway	1	60 in	7/16 in	1 5/16 in	4GVN7	1
Raceway Covers						
Cover Clip	1, 2	1 in	7/16 in	1 5/16 in	4YER3	1
Raceway Fittings						
Entrance End	1	4 ¼ in	½ in	1 ¼ in	4GVP5	1
Tee	1	4 ¼ in	½ in	1 ¼ in	4GVR3	1
Internal Elbow	1	2 in	½ in	1 ¼ in	4GVR4	1
External Elbow	1	2 in	½ in	1 ¼ in	4GVR5	1
Wire Clip	1	1 in	½ in	1 ¼ in	4YER2	1
Blank End	1	1 ¼ in	½ in	1 ¼ in	4YER4	1
90 Degrees Flat Elbow	1	2 ½ in	½ in	1 ¼ in	4YER5	1

Half & Quarter Round Cable Concealers

- White
- Self-adhesive

Fast-fit decorative raceway conceals wires where time and appearance matter. Designed with hinge and click-lock lid. Self-adhesive and paintable. Cable Tidy products help organize and hide cable clutter.

Item	Item No.	Pkg. Qty.
Raceway Fittings		
¼ Round Raceway Series		
Quarter Round End Cap	**19RZ73**	2
Single ¼-Round Connector	**60WA23**	1
Single External Bend	**60WA22**	1
Single Internal Bend	**60WA21**	1
Maxi Raceway Series		
Single Clip-Over Equal Tee	**60WA35**	1
Single Clip-Over External Bend	**60WA33**	1
Single Clip-Over Flat Bend	**60WA34**	1
Single Clip-Over Internal Bend	**60WA32**	1
Single Clip-Over Unequal Tee	**60WA38**	1
Single Smooth-Fit Coupler Connecting	**60WA36**	1
Single Smooth-Fit End Cap	**60WA37**	1
Micro+ Raceway Series		
Single Clip-Over Equal Tee	**60WA28**	1
Single Clip-Over External Bend	**60WA26**	1
Single Clip-Over Flat Bend	**60WA25**	1
Single Clip-Over Internal Bend	**60WA27**	1
Single Smooth-Fit Coupler Connecting	**60WA29**	1
Single Smooth-Fit End Cap	**60WA30**	1
Mini Raceway Series		
90 Degree Internal Elbow	**38G174**	1
Mini Raceway Circular Adapter	**38G178**	1
Mini Raceway Connector	**38G180**	1
Mini Raceway Door Top Bend	**38G176**	1
Mini Raceway End Cap	**38G181**	1
Mini Raceway Equal Tee	**38G177**	1
Mini Raceway External Bend	**38G175**	1
Mini Raceway Flat Bend	**38G173**	1

L	W	H	Item No.	Pkg. Qty.
Half- & Quarter-Round Cable Concealer Strips				
Maxi Series				
60 in	2 in	1 in	**38G165**	1
Micro+ Raceway Series				
60 in	13⁄16 in	3⁄8 in	**60WA61**	1
79 in	13⁄16 in	3⁄8 in	**60WA67**	1
Micro Series				
79 in	5⁄8 in	5⁄16 in	**38G169**	1
Mini Raceway Series				
60 in	1 3⁄16 in	9⁄16 in	**60WA63**	1
79 in	1 3⁄16 in	9⁄16 in	**38G171**	1
118 in	1 3⁄16 in	9⁄16 in	**38G172**	1
Quarter Round Series				
60 in	7⁄8 in	7⁄8 in	**60WA65**	1
79 in	7⁄8 in	7⁄8 in	**38G183**	1

Item	Includes	Item No.	Pkg. Qty.
Raceway Accessory Pack			
¼ Round Raceway Series			
Clip Over Accessory Pack	2-Internal Bend, 2-External Bend, 1-Cable Outlet, 2-Connector, 1-End Cap Right, 1-End Cap Left	**60WA39**	1
Maxi Raceway Series			
Clip Over Accessory Pack	1-Flat Bend, 1-Internal Bend, 1-External Bend, 2-End Cap	**60WA19**	1
Micro+ Raceway Series			
Clip Over Accessory Pack	2-Internal Bend, 2-External Bend, 2-Flat Bend, 2-Equal tee, 3-Connector, 2-End Cap	**60WA24**	1
Raceway	Clip-Over Accessories	**60WA62**	1
Micro Raceway Series			
Micro Raceway Accessory Pack	(2) End Cap, (3) Equal Tee, (4) External Bend, (4) Flat Bend, (4) Internal Bend, (7) Connector	**38G170**	1
Mini Raceway Series			
Clip Over Accessory Pack	1-Flat Bend, 2-Internal Bend, 2-External Bend, 1-Equal tee, 2-Connector, 2-End Cap	**60WA31**	1
Raceway	Clip-Over Accessories	**60WA64**	1
Quarter Round Series			
Hinge and Click Lock	Clip-Over Corner Bends	**60WA66**	1

Cablofil Wire Mesh Cable Trays

- Lightweight steel

Mesh cable trays allows air to flow through to keep cable ventilated and cool. Also known as basket trays, wire mesh trays may be cut or bent in configurations like curves, slopes, and tees to accommodate complex cable runs. Trays mount on walls, overhead, or under floors in whole-facility installations, and they're ideal for hiding cable in spaces without paneled ceilings.

4GVX1

1ATR4

Description	Item No.	Pkg. Qty.
Cable Tray Supports and Mounting Accessories		
4 in, 6 in, 8 in, 12 in, 18 in, 20 in, 22 in, 24 in For Tray Width		
Cable Guide 6 11⁄16 in Length	**1ATR7**	1
Cable Tray Clamp Washer ¼ in Width	**4JWT1**	50
Cable Tray Clamp Washer ¾ in Width	**4JWR9**	50
Cable Tray Connector 2 15⁄16 in Length	**4JWT6**	50
Cable Tray Cutter Offset	**1ATR8**	1
Cable Tray Screw And Flange Nut ¾ in Length	**4JWT2**	50
Cable Tray Splice 1 ⅛ in Width	**4JWT5**	50
Cable Tray Support Floor Mounting	**1ATR5**	1
Cable Tray Washer 2 in Width	**4JWT4**	25
4 in For Tray Width		
C Bracket 7 in Length	**60RD03**	1
Profile Support Bracket 7 ⅝ in Length	**60RC93**	1
Universal Bracket 5 ⅛ in Length	**60RC89**	1
6 in For Tray Width		
Cable Tray Support 6 in Length	**1ATP4**	1
C Bracket 9 in Length	**60RD04**	1
Universal Bracket 8 in Length	**1ATR1**	1
8 in For Tray Width		
C Bracket 10 15⁄16 in Length	**60RD05**	1
Center Hanger 7 ⅝ in Length	**60RC97**	1
Universal Bracket 9 1⁄16 in Length	**60RC90**	1
12 in For Tray Width		
Cable Tray Support 12 in Length	**1ATP6**	1
Cable Tray Support Center Hanging	**1ATR4**	1
Cable Tray Support Post Mounting	**1ATR6**	1
C Bracket 14 ⅞ in Length	**60RD06**	1
Universal Bracket 14 in Length	**1ATR3**	1
16 in For Tray Width		
Cable Tray Support 16 in Length	**1ATP8**	1
Center Hanger 15 ½ in Length	**60RC98**	1
Profile Support Bracket 19 7⁄16 in Length	**60RC94**	1
Universal Bracket 18 in Length	**60RC91**	1
18 in For Tray Width		
C Bracket 20 13⁄16 in Length	**60RD07**	1
Center Hanger 17 ½ in Length	**60RC99**	1
Profile Support Bracket 21 7⁄16 in Length	**60RC95**	1
20 in For Tray Width		
Center Hanger 19 7⁄16 in Length	**60RD01**	1
Profile Support Bracket 23 ⅜ in Length	**60RC96**	1
Universal Bracket 21 1⁄16 in Length	**60RC92**	1
24 in For Tray Width		
Center Hanger 23 ⅜ in Length	**60RD02**	1

W	L	2 in HEIGHT Cap.	2 in HEIGHT Item No.	4 in HEIGHT Cap.	4 in HEIGHT Item No.	6 in HEIGHT Cap.	6 in HEIGHT Item No.
Wire Mesh Cable Tray							
4 in	10 ft	22 lb	**4GVX1**	—	—	—	—
6 in	10 ft	27 lb	**4GVX2**	60 lb	**4GVX7**	—	—
8 in	10 ft	36 lb	**4GVX3**	76 lb	**4GVX8**	—	—
12 in	10 ft	47 lb	**4GVX4**	126 lb	**4GVX9**	155 lb	**4GVY3**
18 in	10 ft	91 lb	**4GVX5**	129 lb	**4GVY1**	155 lb	**4GVY4**
20 in	10 ft	95 lb	**4GVX6**	129 lb	**4GVY2**	165 lb	**4GVY5**
24 in	10 ft	95 lb	**60RC87**	129 lb	**60RC88**	—	—

Cable Ladder Trays

- 4" load depth
- 5¼" side rail height

Rigid aluminum trays have high load capacity and resist stress, camber, and warping. Flange-out side rails ease cable installation. Splice plates are slightly curved, for a spring-fit on straight sections or contour-fit on fittings. Meet NEMA VE1. Include splice plates and mounting hardware.

Ladder Tray

Horizontal Elbow

Item	Cap.	Ladder Tray Width 6 in Item No.	12 in Item No.	18 in Item No.	24 in Item No.
Cable Trays					
Ladder Tray	75 lb	**784FA3**	**2HCL2**	**784FA4**	**2HCL3**
Ladder Tray	100 lb	—	**2HCL4**	—	**2HCL5**
Cable Tray Fittings					
90 Degree Vertical Elbow Inside	75 lb, 100 lb	**784FA7**	**2HCL8**	**784FA9**	**2HCL9**
90 Degree Horizontal Elbow	75 lb, 100 lb	**784FA5**	**2HCL6**	**784FA6**	**2HCL7**
90 Degree Vertical Elbow Outside	75 lb, 100 lb	**784FA8**	**2HCN1**	**784FC0**	**2HCN2**
Horizontal Tee	75 lb, 100 lb	**784FC1**	**2HCN3**	**784FC2**	**2HCN4**
Cable Tray Supports and Mounting Accessories					
Tray Drop Out	75 lb, 100 lb	**784FD6**	**784FD7**	**784FD8**	**784FD9**
Straight Ladder Cover, No Flange 72 in Length	75 lb, 100 lb	**784FC8**	**784FD0**	**784FD2**	**784FD4**
Straight Ladder Cover, No Flange 144 in Length	75 lb, 100 lb	**784FC9**	**784FD1**	**784FD3**	**784FD5**

Description	For Tray Width	Item No.
Cable Tray Supports and Mounting Accessories		
Cable Ladder Connectors		
Expansion Connector	12 in, 24 in	**2HCN9**
Horizontal Adjustable Connector	12 in, 24 in	**2HCN8**
Universal Connector	12 in, 24 in	**2HCN6**
Vertical Adjustable Connector	12 in, 24 in	**2HCN7**
Cable Ladder Reducers		
Straight Reducers	6 in, 12 in	**784FC7**
Straight Reducers	6 in, 18 in	**784FC6**
Straight Reducers	6 in, 24 in	**784FC4**
Straight Reducers	12 in, 18 in	**784FC5**
Straight Reducers	12 in, 24 in	**2HCN5**
Straight Reducers	18 in, 24 in	**784FC3**
Hold Down Clamps for Cable Ladders		
Hold Down Clamp	12 in, 24 in	**2HCP1**

800 Series

500 Series
3YY43

700 Series
3YY50

3000 Series
3YY96

4000 Series
3ZA34

Metallic Surface Raceway Systems

legrand

- 500 Series: ½"H x ¾"W
- 700 Series: 11/16"H x 7/4"W
- 2400 Series: ⅞"H x 1 ⅞"W
- 3000 Series: 1 ½"H x 2 ¾"W
- 4000 Series: 1 ¾"H x 4 ¾"W

Steel Raceway provides wiring capacities for small to medium size installations. Power or data/communication devices can be wired into the raceway for a flush appearance satisfying both aesthetic and functional requirements.

Description	Color	No. of Channels	Item No.
500 Series			
Raceways			
Raceway 10 ft Length	Ivory	1	3YY43
Raceway Covers			
Connection Cover	Ivory	1, 2	3YY46
Raceway Fittings			
90 Degrees Flat Elbow	Ivory	1	3YY47
External Elbow	Ivory	1	3YY49
700 Series			
Raceways			
Raceway 10 ft Length	Ivory	1	3YY50
Raceway Covers			
Connection Cover	Ivory	1, 2	3YY53
Raceway Fittings			
90 Degrees Flat Elbow	Ivory	1	3YY54
External Elbow	Ivory	1	3YY56
500, 700 Series			
Raceway Boxes and Plates			
Deep Device Box 1 Gang	Ivory	2	3YY63
Deep Switch and Receptacle Box 1 Gang	Ivory	2	3YY61
Device Box 2 Gang	Ivory	2	4JA47
Distribution Box 1 Gang	Ivory	2	4YET1
Extra Deep Device Box 2 Gang	Ivory	2	4JA46
Fixture Box 1 Gang	Ivory	2	3YY58
Round Fan Box 1 Gang	Ivory	2	3YY59
Shallow Gang Device Box 1 Gang	Ivory	2	3YY62
Shallow Switch and Receptacle Box 1 Gang	Ivory	2	3YY64
Shallow Switch Device Box 1 Gang	Ivory	2	3YY60
Raceway Fittings			
Support Clip	Ivory	1	4YER9
Tee	Ivory	1	3YY57
3000 Series			
Raceways			
Raceway 10 ft Length	Gray	1	3YY96

Description	Color	No. of Channels	Item No.
Raceway 10 ft Length	Ivory	1	3ZA21
Raceway Covers			
Cover 60 in Length	Gray	1, 2	3YY97
Cover 60 in Length	Ivory	1, 2	3ZA22
Cover Clip	Gray	1, 2	3ZA11
Cover Clip	Ivory	1, 2	3ZA24
Duplex Receptacle Cover	Gray	1, 2	3ZA20
Single Receptacle Cover	Gray	1, 2	3ZA19
Single Receptacle Cover	Ivory	1, 2	3ZA31
Raceway Fittings			
90 Degrees Flat Elbow	Gray	1	3ZA15
90 Degrees Flat Elbow	Ivory	1	3ZA27
Blank End	Gray	1	4YET9
Blank End	Ivory	1	4YEU1
Coupling	Gray	1	4YET7
Entrance End	Gray	1	3ZA13
Entrance End	Gray	1	3ZA14
Entrance End	Ivory	1	3ZA25
Support Clip	Gray	1	3ZA10
Support Clip	Ivory	1	3ZA23
Tee	Gray	1	3ZA16
Tee	Ivory	1	3ZA28
Wire Clip	White	1	3YY98
4000 Series			
Raceways			
Raceway 10 ft Length	Gray	1	3ZA34
Raceway Covers			
Cover Plate	Ivory	1, 2	5KY83
Single Round Opening	Ivory	1, 2	3NYR1
Raceway Fittings			
Blank End	Gray	1	3ZA42
Blank End	Ivory	1	3ZA53
Coupling	Ivory	1	3ZA37
Device Plate 1 Gang	Ivory	1	3NYP6
Device Plate 2 Gang	Ivory	2	3NYP8
Entrance End	Ivory	1	4TLC3

Description	Color	No. of Channels	Item No.
External Elbow	Ivory	1	3ZA58
Flat Elbow	Gray	1	3ZA43
Flat Elbow	Ivory	1	3ZA54
Full Capacity Tee	Ivory	1	3ZA55
Full Capacity Tee	Gray	1	3ZA66
Internal Elbow	Gray	1	3ZA45
Internal Elbow	Ivory	1	3ZA57
Transition	Black	1	15A809
Wire Clip	Ivory	1	3ZA39
2400D Series			
Raceways			
Raceway 10 ft Length	Ivory	2	3YY87
Raceway Boxes and Plates			
Divided Device Box 1 Gang	Ivory	2	3YY94
Divided Device Box 2 Gang	Ivory	2	3YY95
Raceway Fittings			
Divided Coupling	Ivory	2	3YY88
Fiber-Ready Divided Entrance End	Ivory	2	3YY89
Full Capacity External Elbow	Ivory	2	3YY92
Full Capacity Flat Elbow	Ivory	2	3YY90
Full Capacity Internal Elbow	Ivory	2	3YY91
2400 Series			
Raceways			
Raceway 5 ft Length	Ivory	1	3YY73
Raceway Covers			
Connection Cover	Ivory	1, 2	3YY77
Cover 60 in Length	Ivory	1, 2	3YY74
Raceway Boxes and Plates			
Extra Deep Device Box 1 Gang	Ivory	2	3YY83
Raceway Fittings			
90 Degrees Flat Elbow	Ivory	2	3YY80
Blank End	Ivory	2	3YY79
Coupling	Ivory	2	3YY76
External Elbow	Ivory	2	3YY82
Internal Elbow	Ivory	2	3YY81
Wire Clip	Ivory	2	3YY75

1500 Series

2600 Series

OFR Series

legrand

1500, 2600, and OFR Series Steel Overfloor Raceways

They have a low profile that prevents tripping while keeping wire and cable concealed. Raceways are often installed in open areas like office conference rooms and halls. Individual components in raceway systems must be purchased from the same brand and series to ensure compatibility.

Description	Color	No. of Channels	Raceway Height	Raceway Width	Item No.	Pkg. Qty.
1500 Series						
Raceways						
Raceway 10 ft Length	Gray	1	5/16 in	1 9/16 in	3YY66	1
Raceway Covers						
Wire Clip	Gray	1, 2	⅜ in	1 9/16 in	3YY67	1
Raceway Boxes and Plates						
Duplex Receptacle Box	Gray	2	1 ⅜ in	3 ⅛ in	26X818	1
Junction Box	Gray	2	¾ in	4 in	26Y156	1
Raceway Fittings						
90 Degrees Flat Elbow	Gray	1	¼ in	1 ½ in	3YY68	1
Combination Connector	Gray	1	¼ in	1 ½ in	3YY70	1
Internal Elbow	Ivory	1	¼ in	1 ½ in	3YY69	1
2600 Series						
Raceways						
Raceway 10 ft Length	Gray	1	¾ in	2 ¼ in	3YY71	1
Raceway Fittings						
90 Degrees Flat Elbow	Gray	1	¾ in	2 ¼ in	3YY72	1
OFR Series						
Raceways						
Raceway 96 in Length	Black	4	½ in	6 ⅞ in	15A802	1
Raceway Boxes and Plates						
Blank Cover Plate	Gray	0	—	2 in	40JZ83	1
Communications Plate	Gray	4	2 in	2 in	40JZ80	1
Device Box 2 Gang	Black	4	2 ¼ in	7 in	15A804	1
Device Box 4 Gang	Black	4	2 ¼ in	7 in	15A805	1
Duplex Faceplate Fitting	Gray	4	2 in	2 in	40JZ84	1
Raceway Fittings						
Entrance End	Black	1	½ in	7 in	15A803	1
Flat Elbow	Black	4	½ in	7 in	15A810	1
Grounding Clip	Gray	0	½ in	7 in	40JZ82	1
Transition	Black	1	½ in	7 in	15A808	1
Raceway Mounting Accessories						
Wire Clip Fitting	Gray	4	½ in	6 ⅞ in	40JZ81	12

Prewired Outlet Raceways Strips

Brings power to new spaces or modify wiring in existing areas. They're prewired and include multiple outlets, so they don't require installing separate wiring, raceway, or outlet components. Strips surface-mount on walls and hardwire to existing electrical systems or larger raceway systems.

19NH68

1MBW2

No. of Outlets	Amps	NEMA Receptacle Type	No. of Circuits	Outlet Center Distance	L	2 USB Ports	Color	Material	Number of Wire Leads	Item No.
Metallic Prewired Outlet Raceway Strips										
Hubbell Wiring Device-Kellems PlugTrak® Series										
5	20 A	5-20R	1	12 in	5 ft	No	Ivory	Steel	3	**1RZB5**
6	15 A	5-15R	1	6 in	3 ft	No	Ivory	Aluminum	3	**1MBX4**
6	15 A	5-15R	2	12 in	6 ft	No	Ivory	Steel	4	**1MBX8**
6	20 A	5-20R	1	6 in	3 ft	No	Ivory	Steel	3	**1RZB3**
6	20 A	5-20R	2	12 in	6 ft	No	Ivory	Steel	4	**1RZB6**
10	20 A	5-20R	1	6 in	5 ft	No	Ivory	Steel	3	**1RZB4**
12	15 A	5-15R	1	6 in	6 ft	No	Ivory	Steel	3	**1MBX7**
12	20 A	5-20R	1	6 in	6 ft	No	Ivory	Steel	3	**1MBX9**
Legrand Plugmold® Series										
5	15 A	5-15R	1	6 in	3 ft	No	Ivory	Steel	3	**19NH64**
5	15 A	5-15R	1	6 in	3 ft	Yes	Ivory	Steel	3	**19NH67**
5	15 A	5-15R	1	12 in	5 ft	No	Ivory	Steel	3	**2W604**
5	15 A	5-15R	1	12 in	5 ft	No	White	Steel	3	**3KYJ2**
5	15 A	5-15R	1	12 in	5 ft	No	Silver	Stainless Steel	3	**3KYK5**
6	15 A	5-15R	1	6 in	3 ft	No	Ivory	Steel	3	**2W603**
6	15 A	5-15R	1	12 in	6 ft	No	Ivory	Steel	3	**2W606**
6	15 A	5-15R	1	6 in	3 ft	No	White	Steel	3	**3KYH8**
6	15 A	5-15R	1	12 in	6 ft	No	White	Steel	3	**3KYJ5**
6	15 A	5-15R	1	6 in	3 ft	No	Silver	Stainless Steel	3	**3KYK2**
6	15 A	5-15R	2	12 in	6 ft	No	Ivory	Steel	4	**5HN64**
9	15 A	5-15R	1	6 in	5 ft	No	Ivory	Steel	3	**19NH65**
9	15 A	5-15R	1	6 in	5 ft	Yes	Ivory	Steel	3	**19NH68**
10	15 A	5-15R	1	6 in	5 ft	No	Ivory	Steel	3	**2W605**
11	15 A	5-15R	1	6 in	6 ft	No	Ivory	Steel	3	**19NH66**
11	15 A	5-15R	1	6 in	6 ft	Yes	Ivory	Steel	3	**19NH69**
12	15 A	5-15R	1	6 in	6 ft	No	Ivory	Steel	3	**2W607**
Nonmetallic Prewired Outlet Raceway Strips										
Hubbell Wiring Device-Kellems PlugTrak® Series										
8	15 A	5-15R	1	18 in	6 ft	No	White	PVC	3	**1MBU6**
8	20 A	5-20R	1	18 in	6 ft	No	White	PVC	3	**1MBW1**
10	15 A	5-15R	1	12 in	5 ft	No	White	PVC	3	**1MBU3**
10	20 A	5-20R	1	12 in	5 ft	No	White	PVC	3	**1MBV6**
10	20 A	5-20R	2	12 in	5 ft	No	White	PVC	3	**1MBV8**
12	15 A	5-15R	1	12 in	6 ft	No	White	PVC	3	**1MBU5**
12	20 A	5-20R	1	12 in	6 ft	No	White	PVC	3	**1MBV9**
12	20 A	5-20R	2	12 in	6 ft	No	White	PVC	3	**1MBW2**
Legrand Plugmold® Series										
4	15 A	5-15R, 5-20R	1	18 in	6 ft	No	Ivory	PVC	3	**5HN40**
4	20 A	5-15R, 5-20R	1	18 in	6 ft	No	Ivory	PVC	3	**5HN44**
5	15 A	5-15R, 5-20R	1	12 in	5 ft	No	Ivory	PVC	3	**5HN38**
5	20 A	5-15R, 5-20R	1	12 in	5 ft	No	Ivory	PVC	3	**5HN42**
5	20 A	5-15R, 5-20R	2	12 in	5 ft	No	Ivory	PVC	3	**5HN45**
6	15 A	5-15R, 5-20R	1	12 in	6 ft	No	Ivory	PVC	3	**5HN39**
6	20 A	5-15R, 5-20R	2	12 in	6 ft	No	Ivory	PVC	3	**5HN46**
6	20 A	5-15R, 5-20R	1	12 in	6 ft	No	Ivory	PVC	3	**5HN48**
8	20 A	5-15R, 5-20R	2	18 in	6 ft	No	Ivory	PVC	3	**5HN47**

Outlet Power Poles

- 2 channel
- 5-20R NEMA outlets

Bring power and communications wiring from the ceiling down to workstations and equipment. They're ideal when there isn't a wall nearby to bring in a surface-mounted raceway. They're typically placed in offices, manufacturing facilities, and labs.

L	Total Number of Outlets	Includes	Material	D	W	Clear Item No.	Gray Item No.	Ivory Item No.
Power Poles with Outlets								
Hubbell Wiring Device-Kellems								
10 ft 2 in	4	(2) 20A 125V Duplex Receptacles	Aluminum	2 ⅛ in	2 ⅛ in	**1MXR4**	**4LM32**	**4WX77**
10 ft 2 in	4	20A 125V Duplex Receptacle, Orange Isolated Ground 20A 125V Duplex Receptacle	Aluminum	2 ⅛ in	2 ⅛ in	—	**4LM33**	**4WX78**
10 ft 2 in	6	(2) Orange Isolated Ground 20A 125V Duplex Receptacles, Isolated Ground Surge Suppression 20A 125V Duplex Receptacle	Aluminum	2 ⅛ in	2 ⅛ in	—	**4LM34**	**4WX79**
12 ft 2 in	4	(2) 20A 125V Duplex Receptacles	Aluminum	2 ⅛ in	2 ⅛ in	**1MXR5**	**4LM35**	**4WX80**
15 ft 2 in	4	(2) 20A 125V Duplex Receptacles	Aluminum	2 ⅛ in	2 ⅛ in	**1MXR6**	**4LM36**	**4WX81**
Wiremold								
10 ft 5 in	6	(1) Circuit, (2) 20A 125V Duplex Receptacles	Steel	1 ½ in	2 ¾ in	—	—	**26Y060**
10 ft 5 in	6	(1) Circuit, (2) 20A 125V Duplex Receptacles	Aluminum	2 ⅜ in	2 ¼ in	—	**26Y062**	—
10 ft 5 in	6	(1) Circuit, (2) 20A 125V Duplex Receptacles	Steel	2 ¾ in	3 in	—	—	**26Y074**
10 ft 5 in	6	(2) 20A 125V Duplex Receptacles	Steel	2 ¼ in	2 ¼ in	—	—	**26Y029**
10 ft 5 in	6	(2) 20A 125V Duplex Receptacles, (3) Blank Inserts, Communications Insert Mounting Adapter	Steel	2 ¼ in	2 ¼ in	—	—	**26Y033**

L	Number of Knockouts	Includes	Material	D	W	Clear Item No.	Gray Item No.	Ivory Item No.
Blank Power Poles								
Hubbell Wiring Device-Kellems								
10 ft 2 in	4	Divider	Aluminum	2 ⅛ in	2 ⅛ in	**1MXR7**	**4LM37**	**4WX82**
12 ft 2 in	4	Divider	Aluminum	2 ⅛ in	2 ⅛ in	**1MXT1**	**1MXR8**	**1MXR9**
15 ft 2 in	4	Divider	Aluminum	2 ⅛ in	2 ⅛ in	**1MXT4**	**1MXT2**	**1MXT3**
Wiremold								
12 ft 5 in	—	—	Steel	2 ¼ in	2 ¼ in	—	—	**26Y030**
12 ft 5 in	2	2 Device Knockout	Steel	3 in	2 ¾ in	—	—	**26Y082**

Service Pole Trim Plate Kit	Clear Item No.	Gray Item No.	Ivory Item No.
Hubbell Wiring Device-Kellems			
(2) Mounting Brackets, Screws, Top Cap	—	—	**24X784**

4WX77

1MXR9

Switch Box
6XC72

Switch Box
6XC73

Handy Box
4A238

Handy Box Cover, Blank
4A240

Handy Box Cover
4YF17

Masonry Box
3KF68

"3½" Round Ceiling Pan Box
6XC84"

Nailing Plate
2DCN4

Conduit Boxes, Covers, and Accessories

HUBBELL RACO A Division of Hubbell Incorporated (Delaware)

UL Listed.

Description	Bracket Type	Nom. D	Mfr. Model	Item No.
Switch Box, 3" H x 2" W, Single Gang				
Gangable, ½" Knockouts	Ears, Old Work	2 ½ in	509	**1RVX6**
Gangable, ½" Knockouts	Ears	2 ¾ in	560	**3KF63**
Gangable, ½" Knockouts	Ears	3 ½ in	590	**3KF65**
Gangable, ¾" End Knockouts	Ears	3 ½ in	591	**29AH22**
Switch Box, 3" H x 2" W, Single Gang, for Armored Cable				
Gangable, ½" Knockouts	Ears	2 ½ in	518	**1XC34**
Gangable, ½" Knockouts	Ears, Old Work Clips	2 ½ in	523	**6XC78**
Gangable, ½" Knockouts	Ears	3 ½ in	600	**20LN61**
Switch Box, 3" H x 2" W, Single Gang, for NM-B Cable				
Nongangable	Flat D, ¼ in Setback	1 in	404	**6XC72**
Nongangable	Ears	1 ½ in	410	**6XC73**
Gangable	Ears	2 ¼ in	471	**1XC35**
Gangable	Ears	2 ½ in	519	**5A056**
Gangable	Ears	2 ¾ in	567	**3KF64**
Gangable	Ears	3 ½ in	601	**6XC66**
Gangable	Ears, Old Work Clips	2 ½ in	517	**1XC36**
Gangable	TS, ½ in Setback	2 ½ in	531	**6XC77**
Handy Box, 4" H x 2" W, Single Gang, for Conduit				
½" Knockouts	—	1 ½ in	650	**6XC56**
¾" Knockouts	—	1 ⅞ in	663	**2DDB6**
Switch Box, 3" H x 2" W, Single Gang				
Gangable, ½" Knockouts	Ears	2 ½ in	500	**3XK13**
Handy Box, 4" H x 2" W, Single Gang, for Conduit				
½" Knockouts	—	1 ⅞ in	660	**4A238**
½" Knockouts	TS, ½ in Setback	1 ⅞ in	662	**6XC57**
Handy Box Accessories				
Extension Ring, Welded Corners	—	1 ½ in	653	**2DDA7**
Handy Box Cover, Blank	—	—	860	**4A240**
Handy Box Cover, ½" KO	—	—	861	**3KF48**
Handy Box Cover, Toggle Switch	—	—	865	**4A242**
Handy Box Cover, Receptacle	—	—	864	**4A241**
Handy Box Cover, 1.4" Dia.	—	—	863	**4YF18**
Handy Box Cover, 1.6" Dia.	—	—	867	**4YF17**
Switch Box Support, Grip-Lok; Madison Straps, Pkg. of 1	—	—	977	**30EJ95**
Masonry Boxes				
Nongangable, 1 Gang	—	2 ½ in	690	**3KF68**
Nongangable, 1 Gang	—	3 ½ in	695	**3KF69**
Nongangable, 2 Gang	—	3 ½ in	696	**3KF70**
Nongangable, 3 Gang	—	3 ½ in	697	**2DDA2**
Nongangable, 4 Gang	—	3 ½ in	698	**2DDA3**
Round Ceiling Pan Boxes				
3½" Round, NM-B	—	½ in	292	**6XC84**
4" Round, Conduit	—	½ in	293	**6XC85**
Multigang Boxes, Corner Edges				
½" & ¾" Knockouts, 2 Gang	—	1 ⅝ in	951	**2DCX3**
½" & ¾" Knockouts, 3 Gang	—	1 ⅝ in	952	**2DCX4**
¾" & 1" Knockouts, 2 Gang	—	2 ½ in	941	**2DCX8**
¾" & 1" Knockouts, 3 Gang	—	2 ½ in	942	**2DCX9**
¾" & 1" Knockouts, 4 Gang	—	2 ½ in	943	**2DCY1**
¾" & 1" Knockouts, 6 Gang	—	2 ½ in	945	**2DCY3**
4" Square/1900 Boxes, Rounded Edges				
½" Knockouts	—	1 ½ in	190	**5A050**
½" Knockouts, Extension Ring	—	1 ½ in	201	**6XC71**
½" Knockouts	—	2 ⅛ in	680	**2DDC9**
½" & ¾" Knockouts	—	1 ½ in	192	**5A051**
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	203	**1RVU4**
½" & ¾" Knockouts	—	2 ⅛ in	683	**2DDD1**
½" & ¾" Knockouts, Plenum	—	2 ⅛ in	239	**2DDE2**
4" Square/1900 Boxes, Corner Edges				
½" & ¾" Knockouts	—	1 ½ in	189	**6XC65**
½" & ¾" Knockouts	—	2 ⅛ in	232	**5A052**
¾" Knockouts	—	2 ⅛ in	231	**2DDA6**
NM-B	FM	1 ½ in	223	**2DDD7**
Armored	FM	1 ½ in	218	**6XC64**
Armored	BOX-LOC Flush	1 ½ in	229	**3KF35**
½" & ¾" Knockouts, w/Grounding Pigtail	H Style	1 ½ in	189H	**2NYF2**
½" & ¾" Knockouts, w/Grounding Pigtail	H Style	2 ⅛ in	232H	**2NYF3**
½" & ¾" Knockouts	BOX-LOC Flush	1 ½ in	227	**3KF34**
½" & ¾" Knockouts	BOX-LOC Flush	2 ⅛ in	238	**1RVX1**
½" & ¾" Knockouts	TS, Flush	2 ⅛ in	235	**1RVU5**
½" & ¾" Knockouts	FM	1 ½ in	196	**3KF32**
½" & ¾" Knockouts	W	1 ½ in	208	**3KF33**
Red, ½" & ¾" Knockouts	—	3 ½ in	911-2	**2DCT4**
4" Square/1900 Box Covers				
Flat, Blank	—	—	752	**5A053**
Flat, Blank with ½" Knockout in Center	—	—	753	**3KF44**
1 Toggle Switch	—	—	800C	**5AA23**
2 Toggle Switch	—	—	803C	**5AA25**
2 GFCI	—	—	809C	**2DDC7**
1 Duplex Receptacle	—	—	902C	**5AA31**
2 Duplex Receptacle	—	—	907C	**5AA33**

Description	Bracket Type	Nom. D	Mfr. Model	Item No.
Combination 1 Duplex, 1 Toggle Switch	—	—	906C	**5AA32**
1 GFCI	—	—	808C	**5AA26**
5-15R, 5-20R, 6-15R, 6-20R, 1 Hole 1.40" Dia.	—	—	801C	**5AA24**
Twist Lock 20A, 1 Hole 1.60" Dia.	—	—	812C	**5AA29**
Twist Lock 30A, 1 Hole 1.70" Dia.	—	—	811C	**5AA28**
Straight Blade, 30 and 50A, 3-Wire, 1 Hole 2.15" Dia.	—	—	810C	**5AA27**
4" Square/1900, 1 Gang Plaster (Mud)/Tile Rings				
Ceiling Fixture Plaster Ring, 2¾" Centers, ½" Raised	—	—	767	**1XC29**
Ceiling Fixture Plaster Ring, 2¾" Centers, ⅝" Raised	—	—	756	**6XC70**
1 Gang Plaster Ring, ¼" Raised	—	—	771	**3KF45**
1 Gang Plaster Ring, ½" Raised	—	—	772	**5A054**
1 Gang Plaster Ring, ⅝" Raised	—	—	768	**1XC32**
1 Gang Plaster Ring, ¾" Raised	—	—	773	**3KF36**
1 Gang Plaster Ring, 1" Raised	—	—	774	**3KF37**
1 Gang Plaster Ring, 1¼" Raised	—	—	775	**3KF38**
1 Gang Plaster Ring, 1½" Raised	—	—	785	**3KF42**
1 Gang Plaster Ring, 2" Raised	—	—	786	**3KF43**
1 Gang Tile Ring, ½" Raised	—	—	782	**3KF41**
2 Gang Plaster Ring, ½" Raised	—	—	778	**1XC33**
2 Gang Plaster Ring, ⅝" Raised	—	—	769	**3KF40**
2 Gang Plaster Ring, ¾" Raised	—	—	779	**3KF39**
3 Gang Plaster Ring, ⅝" Raised	—	—	792	**19L561**
3 Gang Plaster Ring, ¾" Raised	—	—	793	**19L562**
3 Gang Plaster Ring, 1⅜" Raised	—	—	794	**19L563**
4$\frac{11}{16}$" Square/11B Boxes, Rounded Edges				
½" & ¾" Knockouts	—	1 ½ in	247	**3LN23**
4$\frac{11}{16}$" Square/11B Boxes, Corner Edges				
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	250	**2DDC2**
½" & ¾" Knockouts	—	2 ⅛ in	257	**3LN25**
½" & ¾" Knockouts	H Style	2 ⅛ in	257H	**2NYF4**
1" Knockouts	—	2 ⅛ in	258	**3LN24**
½" & ¾" Knockouts, Extension Ring	—	2 ⅛ in	262	**2DDC3**
¾" thru 2" Knockouts	—	3 ¼ in	260	**19L559**
Data Box, SU Bracket, Flat 4" sq. Cover, ¾ thru 2" Knockouts	—	3 ¼ in	263	**19L560**
4$\frac{11}{16}$" Square/11B Box Covers and Plastic Rings				
Flat, Blank	—	—	832SP	**3LN26**
1 Toggle Switch	—	—	870RAC	**3LT02**
1 Duplex Receptacle	—	—	972	**3LR93**
2 Duplex Receptacle	—	—	979	**3LT01**
Twist Lock 20A, 1 Hole 1.60" Dia.	—	—	887	**3LR98**
Straight Blade, 30 and 50A, 3-Wire, 1 Hole 2.15" Dia.	—	—	878	**3LR94**
Straight Blade, 30 and 50A, 4-Wire, 1 Hole 2.60" Dia.	—	—	888	**3LR95**
1 Gang Plaster Ring, ½" Raised	—	—	837	**3LN27**
2 Gang Plaster Ring ½" Raised	—	—	841	**3LN28**
Low Voltage Data Box Partition Plate for 3¼" Deep Boxes	—	—	981	**19L564**
4" Octagon/8B Boxes				
½" Knockouts	—	1 ½ in	125	**5A047**
½" & ¾" Knockouts	—	1 ½ in	127	**6XC79**
½" & ¾" Knockouts, Extension Ring	—	1 ½ in	130	**1RVU1**
NM-B	—	1 ½ in	146	**5A048**
½" & ¾" Knockouts	—	2 ⅛ in	167	**2DDB4**
NM-B, Ceiling Fan Brace	—	1 ½ in	296-1	**6XC54**
½" Knockouts, Extension Ring	—	1 ½ in	128	**6XC81**
NM-B	TS	1 ½ in	164	**6XC80**
NM-B, Ceiling Fan with Brace	FA ½ in Setback	2 ⅛ in	294	**3KF47**
4" Octagon/8B Box Covers and Accessories				
Flat Blank	—	—	722	**5A049**
Flat Blank with ½" Knockout	—	—	724	**6XC82**
Flat Duplex Receptacle	—	—	731	**6XC83**
5" Round Steel Closure Plate, White	—	—	5653-1	**3KF62**
Adjustable Bar Hanger, Range 14¼" to 22½"	—	—	920	**6XC55**
Nailing Plates				
2.56"L x 1.5"W	—	—	2709	**2DCN4**
2.75"L x 1.5"W, Puzzle-Plate	—	—	2712R	**19L542**
5"L x 1.5"W, Puzzle-Plate	—	—	2713R	**19L543**
Service Entrance Caps for RMC/IMCs				
½ in, Aluminum Construction	—	—	2402	**19L547**
¾ in, Aluminum Construction	—	—	2403	**19L548**
1 in, Aluminum Construction	—	—	2404	**19L549**
1 ¼ in, Aluminum Construction	—	—	2405	**19L550**
1 ½ in, Aluminum Construction	—	—	2406	**19L551**
2 in, Aluminum Construction	—	—	2408	**19L552**
2 ½ in, Aluminum Construction	—	—	2410	**19L553**
3 in, Aluminum Construction	—	—	2412	**19L554**
3 ½ in, Aluminum Construction	—	—	2414	**19L555**
4 in, Aluminum Construction	—	—	2416	**19L556**

No. of Gangs	Description	Item No.
Copper-Free Aluminum		
Receptacle Covers for Wet Locations, NEMA 3R (Includes Flip Cover and Gasket)		
1	Cover with Receptacle, 5-15R Duplex	**10H398**
1	Cover with Receptacle, 6-20R Duplex	**10H402**
1	Cover with Receptacle, 5-15R, Single 1⅜" Device Opening	**10H403**
1	Cover with Receptacle, 5-20R, Single 1⅜" Device Opening	**10H404**
1	Cover with Receptacle, 6-20R, Single 1⅜" Device Opening	**10H406**
1	Receptacle, GFCI	**10H411**
1	Receptacle, Single 1⅜" Device Opening	**10H412**
1	Receptacle, Single 1 19/32" Device Opening, Locking Devices	**10H413**
1	Switch, 1 19/32" Device Opening with Switch Plate	**10H415**
Covers For Dry Locations (Without Gasket)		
1	Receptacle, Single 1 13/32" Hole Diameter, Box Mount	**10H359**
1	Switch	**10H365**
1	Pilot Lamp, Amber Jewel	**10L154**
1	Switch with Toggle Guard, Cast	**10H369**
Cast Covers for Wet Locations, NEMA 3R (Includes Gasket)		
1	Pilot Lamp Flush Receptacle, Green Jewel	**10H349**
1	Switch, Operating Type for Square Handle Tumbler or Toggle	**10H377**
1	Blank	**10L149**
1	Pilot Lamp Flush Receptacle, Amber Jewel	**10L156**
1	Pilot Lamp Flush Receptacle, Red Jewel	**10L158**
Malleable Iron		
Receptacle Covers for Wet Locations, NEMA 3R (Includes Flip Cover and Gasket)		
1	Cover with Receptacle, L5-15R, Single 1⅜" Device Opening	**10H407**
1	Cover with Receptacle, L6-15R, Single 1⅜" Device Opening	**10H408**
1	Cover with Receptacle, L7-15R, Single 1⅜" Device Opening	**10H409**
1	Receptacle, Duplex, 1⅜" Device Opening	**10H414**
Covers For Dry Locations (Without Gasket)		
1	Extension	**10L110**
2	Extension	**10L116**
2	Blank, Cast	**10H384**
1	Receptacle, Single 1 7/16 Hole Diameter, Cast	**10H363**
1	Receptacle, Duplex, Cast	**10L152**
Cast Covers for Wet Locations, NEMA 3R (Includes Gasket)		
1	Pilot Lamp Flush Receptacle, Green Jewel	**10H348**
1	Switch, Double Push Button	**10H354**
1	Switch, Rocker Type for Square Handle Tumbler or Toggle	**10H370**
1	Receptacle, Duplex with Spring Cover	**10H372**
1	Receptacle, Single 1 7/16" Hole Diameter with Spring Cover	**10H374**
1	Switch, Operating Type for Square Handle Tumbler or Toggle	**10H376**
1	Pilot Lamp Flush Receptacle, Amber Jewel	**10L155**
1	Pilot Lamp Flush Receptacle, Red Jewel	**10L157**
Steel		
Covers For Dry Locations (Without Gasket)		
1	Pilot Lamp, Green Jewel	**10H347**
1	Switch, Double Push Button	**10H353**
1	Receptacle, Single 1 13/32" Hole Diameter with Lift Cover	**10H357**

10H416

10L109

10L094

10L096

10L099

10L119

Appleton Group

Cast Device Boxes and Covers

Boxes feature accurately tapped and tapered threads for tight, rigid joints and ground continuity. A smooth, rounded integral bushing in each hub protects conductor insulation. Openings provide room to make splices and for general maintenance. Accommodate wiring devices like switches and receptacles. Corrosion resistant. Covers for Dry and Wet Locations mount directly on box. Covers for Wet Locations feature a gasket that seals around the plug to keep dirt and moisture out.

No. of Gangs	Description	Item No.
1	Receptacle, Single 1⅝" Hole Diameter	**10H361**
1	Switch, Up to 3 Interchangeable Devices	**10H380**
2	Blank	**10H381**
2	Receptacle, 2 Duplex	**10H385**
2	Receptacle, Single 1 13/32" Hole Diameter and Duplex	**10H387**
2	Receptacle, Single 2 15/32" Hole Diameter	**10H388**
2	Receptacle and Switch, Switch/Duplex	**10H390**
1	Blank	**10L146**
1	Receptacle, Duplex	**10L150**
1	Pilot Lamp, Red Jewel	**10L153**

No. of Gangs	Description	Item No.
Accessories		
1	Adapter and Gasket, Mounts Receptacle Covers for Wet Locations to Standard Steel Switch Boxes	**10H410**

No. of Gangs	No. of Inlets	Box Type	Item No.
Aluminum Boxes			
¾ in Hubs			
2	2	FSS	**10H422**
1 in Hubs			
1	1	FDC	**10L079**
Malleable Iron Boxes			
½ in Hubs			
1	3	FSLA	**10H416**
1	3	FDCC	**10L091**
1	3	FDT	**10L097**
1	4	FDX	**10L101**
1	1	FS	**10L108**
1	4	FSCD	**10L137**
2	2	FSS	**10H420**
2	1	FS	**10L117**
2	2	FSC	**10L131**
½ in ¾ in Hubs			
2	3	FSD	**10L142**
¾ in Hubs			
1	4	FDX	**10L102**
1	1	FS	**10L109**
1	2	FSC	**10L127**
2	2	FSS	**10H421**
2	2	FDS	**10L095**
2	1	FS	**10L118**
2	2	FSC	**10L132**
3	3	FSS	**10H423**
1 in Hubs			
1	3	FDCC	**10L090**
1	2	FDS	**10L094**
1	3	FDT	**10L096**
1	4	FDX	**10L099**
1	3	FSCT	**10L139**
2	2	FSS	**10H419**
2	1	FD	**10L074**
2	2	FDC	**10L086**
3	1	FS	**10L119**

Weatherproof Boxes and Covers

HUBBELL®
KILLARK®

Use with standard flush switches and receptacles. Suitable for outdoor, high-abuse areas and wet locations when used with cover and gasket, sold separately. Malleable iron boxes with NPT-tapered threads, integral bushings, and easily accessible internal grounding screws. Triple-coat Duraloy finish for high corrosion resistance. Lug brackets on all models except 2NA21, and 2NA28. FB-1 NEMA/IEC frame. Silver color.

2NA17

2MY67

2NA28

For Use With	Cover Material	1 Gang		2 Gang	
		Mfr. Model	Item No.	Mfr. Model	Item No.
Weatherproof Covers					
Blank	Aluminum	—	—	2FBC	**49ZX83**
Blank	Aluminum	—	—	2FB	**49ZY20**
Duplex Receptacles	Aluminum	FCLA	**2NA14**	2FA	**2MY65**
Duplex Receptacles	Aluminum	1FA	**2MY62**	2FAC	**49ZX84**
Duplex Receptacles	Aluminum	FCLA2	**2NA15**	—	—
Duplex Receptacles	Aluminum	1FAC	**49ZX85**	—	—
GFCI Receptacles	Aluminum	FCL-GF	**2NA16**	—	—
Outdoor On-Off Toggle Switches	Aluminum	1FT	**2MY64**	2FT	**2MY69**
Single Gang Boxes	Aluminum	1FB	**2MY63**	2FR	**49ZY11**
Single Gang Boxes	Aluminum	1FG	**49ZX94**	—	—
Single Gang Boxes	Iron	1FR	**49ZX90**	—	—
Single Gang Boxes	Iron	1FRC	**49ZX95**	—	—
Single Gang Boxes	Malleable Iron	FSBCM	**2NA24**	—	—
Standard Toggle Switches or Manual Motor Starters	Aluminum	FZ8647	**2NA29**	—	—
Toggle Switch	Aluminum	FST	**49ZY02**	1FTC	**49ZX88**
Toggle Switch	Aluminum	FCLT	**49ZY15**	—	—
Gaskets					
Appleton FS/FD Series Cast Boxes	—	—	—	3FSRG	**49ZX82** *
Hubbell 2F Series Box Covers	—	FSRG	**2NA27**	2FSRG	**2MY68**

Box Type	No. of Inlets	No. of Gangs	Cap.	½ in Hubs		¾ in Hubs		1 in Hubs	
				Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Aluminum Boxes									
Deep	1	1	45 cu in	—	—	VLJDX-2	**49ZX60**	VLJDX-3	**49ZX58**
FD	1	1	28 cu in	—	—	FD-2	**49ZX92**	—	—
FD	1	1	47 cu in	FD-1	**49ZX86**	—	—	FD-3	**49ZX91**
FD	1	2	47 cu in	2FD-1	**49ZY14**	2FD-2	**49ZY01**	—	—
FDC	2	1	50 cu in	FDC-1	**49ZY03**	FDC-2	**49ZY04**	—	—
FDC	2	2	50 cu in	2FDC-1	**49ZY25**	2FDC-2	**49ZX89**	—	—
FDCC	3	1	28 cu in	—	—	FDCC-2	**49ZY05**	—	—
FS	1	1	18 cu in	FS-1	**4TZT5**	FS-2	**4TZT6**	—	—
FS	1	2	32 cu in	2FS-1	**49ZX99**	—	—	2FS-3	**49ZY13**
FSC	2	1	18 cu in	FSC-1	**4TZT8**	FSC-2	**4TZT9**	—	—
FSC	2	2	32 cu in	2FSC-1	**49ZY16**	—	—	—	—
FSOC	2	1	29 cu in	FSOC-1	**49ZY30**	—	—	—	—
FSS	2	1	18 cu in	—	—	FSS-2	**49ZY17**	—	—
FST	3	1	18 cu in	—	—	FST-2	**49ZY28**	—	—
Shallow	1	1	17 cu in	VLJSX-1	**49ZW66**	VLJSX-2	**49ZX61**	—	—
Malleable Iron Boxes									
FD	1	1	28 cu in	FD-1M	**2NA17**	FD-2M	**2NA18**	—	—
FD	1	1	47 cu in	—	—	—	—	FD-3M	**49ZX87**
FD	1	2	47 cu in	2FD-1M	**49ZX96**	2FD-2M	**49ZX98**	—	—
FDC	2	1	28 cu in	FDC-1M	**2NA19**	FDC-2M	**2NA20**	—	—
FDC	2	1	50 cu in	—	—	—	—	FDC-3M	**49ZX93**
FDC	2	2	50 cu in	2FDC-1M	**49ZX97**	2FDC-2M	**49ZY06**	—	—
FDS	2	1	28 cu in	—	—	FDS-2M	**2NA21**	—	—
FS	1	1	18 cu in	FS-1M	**2NA22**	FS-2M	**2NA23**	—	—
FS	1	1	32 cu in	—	—	—	—	FS-3M	**49ZY10**
FS	1	2	32 cu in	—	—	2FS-2M	**2MY66**	2FS-3M	**49ZY07**
FSC	2	1	18 cu in	FSC-1M	**2NA25**	FSC-2M	**2NA26**	—	—
FSC	2	1	32 cu in	—	—	—	—	FSC-3M	**49ZY19**
FSC	2	2	32 cu in	2FSC-1M	**49ZY08**	2FSC-2M	**2MY67**	—	—
FSCA	3	1	18 cu in	FSCA-1M	**49ZY31**	FSCA-2M	**49ZY27**	—	—
FSCC	2	1	18 cu in	FSCC-1M	**49ZY24**	—	—	—	—
FSCC	3	1	18 cu in	—	—	FSCC-2M	**49ZY21**	—	—
FSCT	3	1	18 cu in	FSCT-1M	**49ZY29**	FSCT-2M	**49ZY23**	—	—
FSS	2	1	18 cu in	FSS-1M	**49ZY12**	FSS-2M	**2NA28**	—	—
FST	3	1	18 cu in	FST-1M	**49ZY22**	FST-2M	**49ZY09**	—	—
FSX	4	1	18 cu in	FSX-1M	**49ZY18**	FSX-2M	**49ZY26**	—	—

** For 3-gang boxes.*

3KG84

4YF70

52HF24

Weatherproof Outlet Boxes

Boxes are supplied with closure plugs and self-threading ground screw.

No. of Gangs	Description	No. of Inlets	Material	Color	L	W	D	½ in HUBS Mfr. Model	½ in HUBS Item No.	¾ in HUBS Mfr. Model	¾ in HUBS Item No.
1	Standard	3	Aluminum	Gray	4.5 in	2.75 in	2.0 in	5320-0	**3KG83**	5324-0	**3KG85**
1	Standard	4	Aluminum	Gray	4.5 in	2.75 in	2.0 in	5321-0	**3KG84**	5330-0	**2DCV4**
1	Standard	5	Aluminum	Gray	4.5 in	2.75 in	2.0 in	5323-0	**2DCV3** *	5332-0	**2DCV6** *
1	Standard	5	Aluminum	Gray	4.5 in	2.75 in	2.0 in	5322-0	**4YF70** †	5331-0	**2DCV5** †
1	Extra Deep	3	Aluminum	Gray	4.5 in	2.75 in	2.63 in	5385-0	**2DCW1**	5386-0	**2DCW2**
1	Extension	0	Aluminum	Gray	—	2.75 in	1.0 in	5406-0	**2DCW7**	5406-0	**2DCW7**
1	Extension	6	Aluminum	Gray	5.25 in	3.5 in	1.5 in	5400-0	**3KF67**	—	—
2	Standard	3	Aluminum	Gray	4.56 in	4.58 in	2.0 in	5333-0	**4A243**	5341-0	**3KF89**
2	Standard	4	Aluminum	Gray	4.56 in	4.58 in	2.0 in	5335-0	**3KF88**	5343-0	**3KF90**
2	Standard	5	Aluminum	Gray	4.56 in	4.58 in	2.0 in	5337-0	**4A244** †	5345-0	**4A245** †
2	Standard	5	Aluminum	Gray	4.56 in	4.56 in	2.0 in	—	—	5342-0	**2DCV8** *
2	Standard	7	Aluminum	Gray	4.56 in	4.56 in	2.0 in	5340-0	**2DCV7**	5346-0	**2DCV9**
2	Extra Deep	5	Aluminum	Gray	4.5 in	4.5 in	2.78 in	—	—	5388-0	**2DCW4**
2	Extension	0	Aluminum	Gray	—	4.65 in	1.03 in	5407-0	**4YF23**	5407-0	**4YF23**
3	Extra Deep	7	Aluminum	Gray	6.38 in	4.5 in	2.63 in	—	—	5390-0	**2DCW6**
—	4 Closure Plugs	5	Aluminum	Gray	4.0 in	4.0 in	1.5 in	5361-0	**2V567**	—	—
1	Round with 4 Closure Plugs	5	Aluminum	Gray	4.0 in	4.0 in	1.5 in	—	—	5372-0	**3KG86**
0	Closure Plugs	—	Zinc	Gray	—	0.5	—	5269-0	**30UJ94**	—	—
0	Closure Plugs	—	Die-Cast Zinc	Gray	—	0.75	—	—	—	5270-0	**30UJ95**
1	Marine-Rated, FD	2	Thermoplastic	Yellow	5.92 in	2.77 in	3.53 in	—	—	HBL60CM83A	**52HF24**
1	Marine-Rated, FD	2	Thermoplastic Elastomer	Gray	5.9531 in	2.7656 in	3.5313 in	—	—	HBL6083	**3D939**

** Inlets on ends, sides, and back. † Inlets on ends and back.*

Weatherproof Covers and Plates

Protect outdoor switches or receptacles. Covers are self-closing. Gray color. Thermoplastic plates have stainless steel metallic parts and are corrosion-resistant. 3D249 has fiber shield to weatherproof toggle and lock switches. All are UL Listed and CSA Certified—Plates with model numbers ending in "WO" are UL Listed for wet and damp locations, cover open. All other plates are UL Listed for wet and damp locations, cover closed.

2DCV2

4YF68

6C595

Description	Lid Style	No. of Gangs	Mounting Orientation	Cover Material	Mfr. Model	Item No.
Bell						
Rectangular, 1-Hole	—	1	—	—	5186-0	**3KF60**
Rectangular, 3-Hole	—	1	—	—	5189-0	**2V626**
4 in Round Cluster - Covers						
Round, 3-Hole	No Lid	1	Vertical	Cast Aluminum	5197-0	**2V627**
FS Cast Hub Device Boxes						
Single Receptacles, 1.406" dia.	(3) Self Closing	3	Vertical	Cast Zinc	5093-0	**19L545**
Blank-Box Mount	No Lid	3	Vertical	Cast Zinc	5177-0	**19L546**
FS or FD Weatherproof Boxes						
Lever Switch and Cover	No Lid	1	Vertical	Cast Zinc	5121-0	**2DCV2**
Duplex Receptacle	(2) Self Closing	1	Horizontal	Cast Zinc	5180-0	**2V705**
Duplex Receptacle	Self Closing	1	Vertical	Cast Aluminum	5146-0	**3KH41**
Duplex Cover, Padlockable	Self Closing	1	Vertical	Cast Aluminum	5027-0	**4YF74**
Single Receptacle, 1.406" dia.	Self Closing	1	Horizontal	Cast Aluminum	5152-0	**3KH42**
Single Receptacle, 1.406" dia.	Self Closing	1	Vertical	Cast Zinc	5155-0	**2V704**
GFCI Receptacle	Self Closing	1	Horizontal	Cast Aluminum	5101-0	**3KH39**
GFCI Receptacle	Self Closing	1	Vertical	Cast Aluminum	5103-0	**3KH40**
GFCI Receptacle, 9/32" Hole for Padlock	Self Closing	1	Vertical	Cast Aluminum	5028-0	**5X914**
Cover w/20A 120/277V DPST Switch	No Lid	1	Vertical	Cast Aluminum	5137-0	**4YF69**
Blank-Box Mount	No Lid	1	Horizontal or Vertical	Stamped Steel Construction	5173-0	**2V706**
Lever Cover w/Two 10A, 125V SPST Switches	No Lid	2	Vertical	Cast Aluminum	5124-0	**4YF68**
Duplex Receptacles	(2) Self Closing	2	Vertical	Cast Aluminum	5148-0	**4A247**
Duplex and GFCI Receptacle	Self Closing	2	Vertical	Cast Aluminum	5033-0	**4LV83**
GFCI Receptacle, Padlockable	Self Closing	2	Vertical	Cast Aluminum	5045-0	**4LV84**
Blank-Box Mount	No Lid	2	Horizontal	Cast Aluminum	5175-0	**4A246**
Hubbell Wiring Device-Kellems						
Duplex and GFCI Receptacle	—	1	Horizontal	Cast Zinc	RW51020	**24X917**
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL5222	**6C595**
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL5221	**6C594**
Duplex	Self Closing	1	Horizontal	Cast Aluminum	HBL5205WO	**6C592**
Duplex	Self Closing	1	Horizontal	Cast Aluminum	HBL5206WO	**6C593**
Single (1.40)	Self Closing	1	Vertical	Thermoplastic	HBL7423WO	**6C615**
Single (1.59)	Self Closing	1	Vertical	Thermoplastic	HBL7425WOA	**5C991**
Single (1.59)	Self Closing	1	Vertical	Cast Aluminum	HBL7420	**3D249**
Single (1.72)	Self Closing	1	Vertical	Thermoplastic	HBL7424WO	**3D250**
Single (2.15)	Self Closing	1	Vertical	Cast Aluminum	HBL9420	**3D297**
Single (2.15)	Self Closing	2	Vertical	Thermoplastic	HBL7777A	**3D279**
Flanged 15/20A Straight Blade Inlets/Outlets	Self Closing	1	Vertical	Reinforced Thermoplastic Polyester	WP1	**3D463**
20/30A Twist-Lock	Self Closing	1	Vertical	Thermoplastic	WP2	**3D464**
GFCI	Self Closing	1	Vertical	PVC	CWP26CR	**2EAU6**
Duplex	Self Closing	1	Vertical	Thermoplastic	HBL52CM21	**3D194**
GFCI, Surge Receptacles and Style Line Devices						
Surge Receptacles	—	1	Vertical	Zinc	RW51470	**61UH98**
Surge Receptacles	—	1	Horizontal	Zinc	RW51810	**61UH99**
Portable Outlet Box						
Duplex	Self Closing	1	Vertical	PBT Resin	HBL3056	**39EA01**
GFCI	Self Closing	1	Vertical	PBT Resin	HBL3061	**39EA05**

1YVX3

While-In-Use Weatherproof Covers

Snap-fit design speeds installation. Padlockable. Corner drill points for box mounting. All have easy-to-remove cordset exit ports and adhered gasket. Single-gang has 16 possible configurations. Double-gang has 70 possible configurations. All are UL Listed and CSA Certified for wet locations while in use [NEC Article 406.8(B)]. Extra-Duty rated models (XD Suffix) comply with NEC requirements [NEC Article 406.9(B)(1)] for extra-duty applications and wet locations.

No. of Gangs	Receptacle Type	Mounting Orientation	Color	W	D	H	Mfr. Model	Item No.
Polycarbonate Body								
1	Duplex, GFCI, Toggle or Round	Horizontal or Vertical	Clear	3 13/16 in	2 ¾ in	5 49/64 in	WP3100C	**1YVX3**
2	Duplex, GFCI, Toggle or Round	Vertical	Clear	5 in	2 ⅝ in	5 ½ in	WP1220C/8	**4CAZ5**
Die-Cast Aluminum Body								
1	Duplex, GFCI, Toggle or Round	Vertical	Gray	3 ⅞ in	3 ⅛ in	3 ¼ in	WP1010MXD	**29TH97**
1	Duplex, GFCI, Toggle or Round	Horizontal	Gray	5 ¾ in	3 ⅛ in	3 ¼ in	WP1010HMXD	**29TH98**
2	Duplex, GFCI, Toggle or Round	Vertical	Gray	5 ¾ in	3 ⅛ in	3 ¼ in	WP1030MXD	**29TH99**

Weatherproof Outlet Covers

HUBBELL TAYMAC

NEMA 3R covers install quickly using the Quick-Fit keyhole mounting system.

Plastic in-use covers can be custom-fit with Knock-Out technology. Durable high-impact polycarbonate construction features attached gasket and lockable tab. Include mounting hardware. 38R662 to 38R664 and 38R666 are deep design.

Metal in-use covers feature commercial-quality die-cast metal construction that meets or exceeds extra-duty specifications. Lockable open or closed. Universal-Fit technology with included gasket and mounting hardware.

All are UL Listed.

38R684

38R681

38R657

38R660

No. of Gangs	Product Type	Mounting Orientation	Color	W	D	Mfr. Model	Item No.
1	In Use	Horizontal or Vertical	Gray	3 ¾ in	5 in	MM710G	**38R666**
1	In Use	Horizontal or Vertical	Clear	4 3/16 in	2 ¾ in	MM420C	**52AX55**
1	Low Profile	Horizontal or Vertical	Gray	3 ⅝ in	1 in to 3 ½ in	ML450G	**38R678**
1	Low Profile	Horizontal or Vertical	White	3 ⅝ in	1 in to 3 ½ in	ML450W	**38R680**
1	Low Profile	Horizontal or Vertical	Bronze	3 ⅝ in	1 in to 3 ½ in	ML450Z	**38R681**
1	Low Profile	Horizontal or Vertical	Gray	4 3/64 in	1 35/64 in	ML500G	**491W41**
2	Flat Cover	Vertical	Clear	5 7/16 in	1 7/16 in	MM1410C	**38R675**
2	Flat Cover	Vertical	Gray	5 7/16 in	1 7/16 in	MM1410G	**38R676**
2	Flat Cover	Vertical	White	5 7/16 in	1 7/16 in	MM1410W	**38R677**
2	In Use	Horizontal or Vertical	Clear	5 7/16 in	3 in	MM2410C	**38R667**
2	In Use	Horizontal or Vertical	Gray	5 7/16 in	3 in	MM2410G	**38R668**
2	In Use	Vertical	Clear	5 ⅜ in	4 ¾ in	MM7440C	**38R669**
2	In Use	Horizontal or Vertical	Gray	5 ⅜ in	5 ½ in	MM7440G	**38R670**
2	In Use	Vertical	Clear	5 27/64 in	4 ¾ in	MM7420C	**491W42**
2	In Use	Vertical	Gray	5 27/64 in	4 ¾ in	MM7420G	**491W43**

No. of Gangs	Product Type	Mounting Orientation	Color	W	D	Mfr. Model	Item No.
Die-Cast Metal							
1	In Use	Vertical	Gray	3 ⅜ in	3 ½ in	MX3200	**38R682**
1	In Use	Horizontal	Gray	5 ⅛ in	3 ½ in	MX3300	**38R683**
1	Low Profile	Vertical	Gray	3 ½ in	2 ¼ in	MX4280S	**38R685**
1	Low Profile	Horizontal	Gray	5 ¼ in	2 ¼ in	MX4380S	**38R686**
1	Low Profile	Vertical	Gray	2 ½ in	2 ¾ in	MX5280S	**38R687**
2	In Use	Vertical	Gray	5 ⅛ in	3 ½ in	MX6200	**38R684**
Polycarbonate							
1	Flat Cover	Horizontal or Vertical	Clear	3 ¾ in	1 7/16 in	MM110C	**38R671**
1	Flat Cover	Horizontal or Vertical	Gray	3 ¾ in	1 7/16 in	MM110G	**38R672**
1	Flat Cover	Horizontal or Vertical	White	3 ¾ in	1 7/16 in	MM110W	**38R674**
1	In Use	Horizontal or Vertical	Clear	3 ¾ in	3 in	MM410C	**38R657**
1	In Use	Horizontal or Vertical	Gray	3 ¾ in	3 in	MM410G	**38R660**
1	In Use	Horizontal or Vertical	White	3 ¾ in	3 in	MM410W	**38R661**
1	In Use	Horizontal or Vertical	Clear	3 ¾ in	3 ¼ in	MM510C	**38R662**
1	In Use	Horizontal or Vertical	Gray	3 ¾ in	3 ⅝ in	MM510G	**38R663**
1	In Use	Horizontal or Vertical	Clear	3 ¾ in	5 in	MM710C	**38R664**

Stainless Steel Outlet Boxes and Covers

Calbrite™
Stainless Steel Conduit Systems

These boxes and covers are designed to be used in wiring devices, such as switches and receptacles. 316 stainless steel, and polished with standard "brite" finish to increase corrosion resistance. Feature machined standard NPT threads. Internal grounding screw included and manufactured with mounting feet.

Box Type	No. of Gangs	No. of Inlets	Cap.	D	Item No.
FS	1	1	18.0 cu in	1.8 in	**38AX90**
FD	1	1	25.0 cu in	2.5 in	**38AX91**
FDCS	1	2	25.0 cu in	2.5 in	**38AX92**
FDCD	2	2	45.0 cu in	2.5 in	**38AX93**
FSCC	1	3	18.0 cu in	1.8 in	**38AX94**
FDCC	1	3	25.0 cu in	2.5 in	**38AX95**
FSCT	1	3	18.0 cu in	1.8 in	**38AX96**
FDCT	1	3	25.0 cu in	2.5 in	**38AX97**
FSX	1	4	18.0 cu in	1.8 in	**38AX98**
FDX	1	4	25.0 cu in	2.5 in	**38AX99**

Box Type	No. of Gangs	No. of Inlets	Cap.	D	Item No.
FDCS	1	2	25.0 cu in	2.5 in	**38AY01**
FDCD	2	2	45.0 cu in	2.5 in	**38AY02**
Electrical Box Covers	1	—	—	⅛ in	**36LM18**
	2	—	—	⅛ in	**36LM19**
While In Use	1	1	1.90 cu.in	3 ½ in	**38AY03**
Weatherproof Covers	1	1	1.90 cu.in	5 ½ in	**38AY04**
Weatherproof Boxes	2	—	—	3 ½ in	**61LT62**
	1	—	—	3 ½ in	**61LT63**
	1	—	—	5 ½ in	**61LT64**

38AX91

38AX93

38AY03

Description	Material	For Use With	Mfr. Model	Item No.
Floor Boxes				
Concealed Service, 2 Compartments, 90 cu. in.	Steel	—	664-SC	**2TEC3**
For Wood Floor Applications, 31 cu. in.	Steel	—	61 W	**2TEC7**
Poke-Through, Duplex Receptacle, Prewired Pigtail End in Junction Box, 27 cu. in.	Steel	—	FPT449	**2TEC8**
Shallow	Steel	—	664 S	**30EC66**
Multi-Gang, Rectangular, Power/ Data/Communications	PVC	—	E976RFB	**30EC67**
Adjust-A-Box, Residential, Tamper-Resistant Duplex Receptacle	Non-Metallic with Brass Cover	—	B121BFBB	**30EC69**
Floor Box Covers and Carpet Flanges				
Carpet Flange, Rectangular, 1 Gang	Brass	61W, 62W, 640, 640P, 840 and 740 Series Floor Boxes	P 64 CP	**2TDZ5**
Round Floor Box Covers with Integral Carpet Flange				
1 Pc., Duplex, Aluminum	Aluminum	68 and 600 Series Floor Boxes	P 60 CACP-AL	**2TDZ8**
Duplex, Brown	Polycarbonate	68 Series Floor Boxes	P 68 DRC BRN	**2TDZ9**
Recessed, Black, For Power and Communications	PVC	68 P Series Floor Boxes	68R-CST-BLK	**2TEC1**
Recessed, Brown, For Power and Communications	PVC	68 P Series Floor Boxes	68R-CST-BRN	**2TEC2**
Floor Box Covers				
Concealed, Scrub-Water, Black	PVC with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BLK	**2TEC4**
Concealed, Scrub-Water, Gray	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-GRY	**2TEC5**
Non-Metallic, Beige	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BGE	**30EC71**
Non-Metallic, Brown	Polycarbonate with Steel Reinforcement Plate	664 Series Floor Boxes	664-CST-SW-BRN	**30EC72**
Brass Finish	Brass	664 Series Floor Boxes	664-CST-M-BRS	**30EC73**
Floor Box Trim Rings				
Tile Trim Ring, Aluminum	Aluminum	68-P Floor Boxes	68PFLAL	**2TEE1**
Floor Box Activation Kits				
Multi-Gang, Rectangular Floor Box Kit, Power/Data/Communications	PVC	30EC67	E976AK2	**30EC68**
Floor Plate Plugs				
Replacement Plug for ½" Floor Cover	Brass	P64 Floor Plate Covers	690-SC	**30EC74**
Replacement Plug for ¾" Floor Cover	Brass	P64 Floor Plate Covers	691-SC	**30EC75**
Replacement Plug for 1" Floor Cover	Brass	P64 Floor Plate Covers	692-SC	**30EC76**
Replacement Plug for 1¼" Floor Cover	Brass	P64 Floor Plate Covers	693-SC	**30EC77**
Replacement Plug for 2½" Floor Cover	Brass	P64 Floor Plate Covers	695	**30EC79**
Replacement Plug for 2¾" Floor Cover	Brass	P64 Floor Plate Covers	696-SC	**30EC80**
Replacement Plug for 2⅝" Floor Cover	Brass	P64 Floor Plate Covers	697	**30EC81**
Replacement Plug for DU Floor Cover	Brass	P64 Floor Plate Covers	698	**30EC82**

2TEC3

2TEC8

30EC69

2TDZ9

2TEC5

30EC73

2TEE1

30EC79

Thomas&Betts
A Member of the ABB Group

Multiple-Service Floor Boxes

Open-office planning options abound with boxes that deliver power, communications, and data service from standard conduit with no exposed service fittings. Quick leveling to desired concrete depth. All are UL Listed (E2969). 2TEC3 and 2TEC7 are CSA Certified.

Step 1
3D308

Step 2
3D444

Step 3
3D440

Traditional Flush Floor Boxes

Satisfy a variety of office, retail, and commercial applications. Feature Scrubshield™ gasketing technology to exceed UL scrubwater exclusion requirements. Floor boxes are fully adjustable for height and leveling. Cast-iron and nonmetallic floor boxes provide corrosion resistance for slab-on-grade applications.

Description	Material	Mfr. Model	Item No.
Round Floor Boxes			
Step 1: Select Box			
Shallow, 33.0 cu in	Cast Iron	B2537	**2EML6**
Shallow, 37.3 cu in	Steel	B2529	**3D308**
Step 2: Select Cover			
Duplex Flap	Brass	S3925	**3D444**
Duplex Flap	Aluminum	SA3925	**4D541**
Duplex Screw	Brass	S3725	**3D442**
Duplex Screw	Aluminum	SA3725	**2EML7**
2⅛" Single Receptacle	Brass	S2925	**4D508**
Combination 2⅛" x ¾"	Brass	S2525	**3D439**
Combination 2⅛" x ¾"	Aluminum	SA2525	**2EML8**
2⅛" Single Receptacle	Aluminum	SA2925	**2EML9**
Step 3: Select Flange (Carpeted Areas Only)			
6¼" Dia.	Brass	S3082	**3D440**
5¼" Dia.	Brass	S3182	**4D513**
5¼" Dia.	Aluminum	SA3182	**4D537**
5¼" Dia.	Polycarbonate	S3079	**4D509**
Step 2 & 3 Combinations: 1-Pc. Cover and Flange			
Cover and Carpet Flange 2⅛" x ¾" Combination	Brass	SF2525	**2EMN1**
Duplex Cover and Carpet Flange	Brass	SF3925	**2DDX6**
Rectangular Floor Boxes			
Step 1: Select Floor Box			
1-Gang, Deep, Brass Collar, 33 cu. in.	Cast Iron	B2436	**4D140**
2-Gang, Deep, Brass Collar, 36.5 cu. in.	Cast Iron and Brass	B4233	**2EMR7**
1-Gang, Deep, Aluminum Collar, 33 cu. in.	Cast Iron	BA2436	**2EMR6**
2-Gang, Deep, Aluminum Collar, 36.5 cu. in.	Cast Iron and Aluminum	BA4233	**2EMR8**
1-Gang, 14.3 cu. in.	PVC	PFBRG1	**2EMN2**
2-Gang, 14.3 cu. in.	PVC	PFBRG2	**2EMN3**
1-Gang, Shallow, Brass Collar, 39.5 cu. in.	Steel	B2421	**2EMR2**
1-Gang, Shallow, Aluminum Collar, 39.5 cu. in.	Steel	BA2421	**2EMR3**
2-Gang, Shallow, Brass Collar, 35 cu. in.	Steel and Brass	B2422	**2EMR4**
2-Gang, Shallow, Aluminum Collar, 35 cu. in.	Steel and Aluminum	BA2422	**2EMR5**
Step 2: Select Cover(s)			
Duplex Flap	Brass	S3825	**3D443**
Duplex Flap	Aluminum	SA3825	**2DDX3**
Duplex Screw	Brass	S3625	**3D441**
Duplex Screw	Aluminum	SA3625	**2EMT2**
Combination 2⅛" x ¾"	Brass	S2425	**3D438**
Combination 2⅛" x ¾"	Aluminum	SA2425	**2EMT3**
StyleLine® Decorator Flap	Brass	S3826	**2DDX1**
StyleLine® Decorator Flap	Aluminum	SA3826	**2DDX4**
StyleLine® Decorator or Duplex Receptacle, Gray (For PVC Boxes Only)	PVC	PFBR826GYA	**2EMN6**
Step 3: Select Flange (Carpeted Areas Only)			
1-Gang (For PVC Boxes Only), Gray	PVC	PFBRFGY1	**2EMN4**
1-Gang (For Metal or PVC Boxes)	Aluminum	SA3083	**2DDX2**
1-Gang (For Metal or PVC Boxes)	Brass	SB3083	**2DDX5**
2-Gang (For PVC Boxes Only), Gray	PVC	PFBRFGY2	**2EMN5**
2-Gang (For Metal or PVC Boxes)	Aluminum	SA3084	**2EMT1**
2-Gang (For Metal or PVC Boxes)	Brass	SB3084	**2EMR9**
Accessories			
Mounting Collar, Required for Tile Applications Only on PVC Boxes	PVC	PFBRMC	**2EMN7**
Cover Frame, Required for Tile Applications Only on PVC Boxes	PVC	PFBRFRA	**2EMN8**
Adapter Collar, For Use With Metal Covers and Flanges in Carpet and Tile Applications	PVC	PFBRAC	**2EMN9***
Adapter Frame With Ground Lug, For Use With Metal Covers and Flanges in Carpet and Tile Applications	Brass	S5017G	**2EMR1***
Flush Replacement Plug, 2⅛" Fine Thread	Brass	S5020	**4D522**

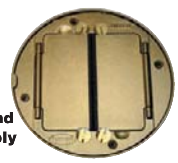
*** Required when using a PVC rectangular floor box and a metal cover.***

Assembled Poke-Through
2DZL8

Step 1
Floor Box
2DZL7

Step 2
Subplate
2DZN5

Step 3
Carpet Flange and Cover Assembly
2DZL5



Step 3
Tile Flange and Cover Assembly
2DZP4

Multiservice Flush Floor Boxes and Fire-Rated Poke-Throughs

- Floor box is for min. 3" to 5" concrete pours, depending on application subplate
- Poke-throughs are for use in concrete floors from 2¼" to 7" thick
- 4" core hole

SystemOne floor box and fire-rated poke-throughs use a universal cover and various application subplates for consistent aesthetics.

Round, flush, nonmetallic floor box has a 1½" data conduit hub for higher capacity and bend radius suitable for Cat 6/6a, coax, and fiber cables. PVC construction can be saw-cut for easy after-pour adjustment.

Poke-throughs expand during a fire to create a fire seal and prevent heat transfer. Step-down clips allow removal from above. UL Listed for use in 1- to 4-hr. rated floors.

Universal cover with Scrubshield™ gasketing technology exceeds UL 514A scrubwater exclusion requirements.

Description	Material	Conduit Size	Hole Dia.	Mfr. Model	Item No.
Assembled 1-Pc. Fire Poke-Throughs, Includes Cover and Subplate					
4 x 4, Aluminum Finish	Steel	(3) ¾ in	4 in	S1PT4X4AL	**2DZL8**
4 x 4, Black	Steel and Aluminum	(3) ¾ in	4 in	S1PT4X4BL	**2DZL9**
4 x 4, Brass Finish	Steel and Brass	(3) ¾ in	4 in	S1PT4X4BRS	**2DZN1**
Dual Style Line, Aluminum Finish	Steel and Aluminum	(2) 1 in	4 in	S1PTAL	**2DZN2**
Dual Style Line, Black	Steel	(2) 1 in	4 in	S1PTBL	**2DZN3**
Dual Style Line, Brass Finish	Steel and Brass	(2) 1 in	4 in	S1PTBRS	**2DZN4**
Step 1: Select Floor Box or Fire-Rated Poke-Through					
Floor Box					
Round, Multi Service	PVC	(2) 1 in, (2) 1½ in	—	S1PFB	**2DZL7**
Fire-Rated Poke-Through Systems					
Fire-Rated Poke-Through, Audio/Visual	Steel	(1)1-1/2 in, (1)3/4 in	4 in	S1PTAVFIT	**2EMT6**
Fire-Rated Poke-Through, Dual Channel	Steel	(2) 1 in	4 in	S1PTFIT	**2EMT7**
Fire-Rated Poke-Through, 4 x 4	Steel	(3) ¾ in	4 in	S1PT4X4FIT	**2EMT8**

Description	Finish	Mfr. Model	Item No.
Step 2: Select Subplate			
Style Line/GFCI Subplate	—	S1SP	**2DZN5**
4 x 4 Subplate	—	S1SP4X4	**2DZN6***
Furniture Feed Sub-plate, Aluminum Finish	—	S1SPFFAL	**2DZN7**
Furniture Feed Subplate, Black Finish	—	S1SPFFBL	**2DZN8**
Furniture Feed Subplate, Brass Finish	—	S1SPFFBRS	**2DZN9**
Twist-Lock and Data Subplate	—	S1SPTL	**2DZP1***
Step 3: Select Carpet Flange or Tile Flange			
Carpet Flange and Cover Assembly			
Universal Cover for Carpet	Aluminum	S1CFCAL	**2DZL4**
Universal Cover for Carpet	Black	S1CFCBL	**2DZL5**
Universal Cover for Carpet	Brass	S1CFCBRS	**2DZL6**
Tile Flange and Cover Assembly			
Universal Cover for Tile	Aluminum	S1TFCAL	**2DZP2**
Universal Cover for Tile	Black	S1TFCBL	**2DZP3**
Universal Cover for Tile	Brass	S1TFCBRS	**2DZP4**
Accessories			
Side by Side Divider for No. 2DZL7	—	S1DIV1	**2EMT4**
Universal Cover Mounting Clips for No. 2DZL7	—	S1FBCLIP	**2EMT5**
Power Junction Box for Fire-Rated Poke-Throughs, 27 cu. in.	—	S1FRPTJB	**4FUA1**

*** Must be used with No. 2EMT8 when installed in fire rated poke-through.***

52AW86

52AW80

52AW83

Floor Boxes

Ideally suited for heavy floor traffic applications, such as shopping malls, retail stores, banks and schools. These floor boxes are installed in poured concrete floors and are fed with conduit. Floor box covers and carpet flanges are offered in brushed brass.

Item	Cap.	Conduit Size	Material	Shape	For Use With	Mfr. Model	Item No.
Floor Box	19.5 cu in	¾ in	PVC	—	—	5511	**52AW85**
Floor Box	54.0 cu in	¾ in	Steel	—	—	6255	**52AW86**
Floor Box	37.3 cu in	¾ in	Steel	—	—	6257	**52AW87**
Tile Flange	—	—	Brass	Round	PVC Floor Boxes	6298	**52AW80**
Carpet Flange	—	—	Brass	Round	PVC Floor Boxes	6235	**52AW81**
Flush Replacement Plug	—	—	Brass	Round	6288, Mfr. No. 6284	6226	**52AW84**
Floor Box Cover	—	—	Brass	Rectangular	Floor Boxes	6250	**52AW82**
Floor Box Cover	—	—	Brass	Round	Floor Box	RAC5500KIT	**52AW83**

Metal Conduit, Elbows, and Nipples

UL Listed.

Electrical Metallic Tubing (Thin Wall)—Unthreaded metallic tubing provides easy bending, cutting, and joining. Resists flattening, kinking, and splitting to help create smooth continuous raceways for faster wire pulling.

Intermediate Metal Conduit (IMC)—Threaded conduit (unless noted) is as strong as rigid conduit, and weighs up to 30% less. Suitable for use in hazardous locations. Larger interior diameter enables faster wire pulling.

Rigid Steel Conduit (GRC) (Heavy Wall)—Threaded conduit resists impact and provides radiation protection and magnetic shielding.

Rigid Aluminum Conduit—Approximately ⅓ the weight of rigid steel conduit. Resists most corrosive atmospheres; won't leave discoloring stains or streaks. Cuts, bends, and threads easily without special tools.

EMT
6XC30

45° Elbow
36LJ25

90° Elbow
36LJ07

Nipple
52AX79

Description	Material	Nom. L	Brand	TRADE SIZE ½ in Item No.	¾ in Item No.	1 in Item No.	1 ¼ in Item No.	1 ½ in Item No.	2 in Item No.	2 ½ in Item No.	3 in Item No.	4 in Item No.
Conduit												
EMT	Steel	5 ft	Allied	**6MPR9**	**6MPT0**	—	—	—	—	—	—	—
EMT	Steel	10 ft	Allied	**6XC30**	**6XC31**	**6XC32**	**5ZM14**	**5ZM12**	**5ZM23**	**5GUH8**	**5GUH9**	**5GUJ1**
EMT	304 Stainless Steel	10 ft	Calbrite	**36LM37**	**36LM38**	**36LM39**	**36LM40**	**36LM41**	**36LM42**	—	—	—
EMT, Green	Steel	10 ft	Allied	**1YTF7**	**1YTF8**	—	—	—	—	—	—	—
EMT, Red	Steel	10 ft	Allied	**1YTF5**	**1YTF6**	—	—	—	—	—	—	—
IMC	Steel	10 ft	Allied	**6XC33**	**6XC34**	**6XC35**	**5ZM15**	**5ZM13**	**5GUJ2**	**5GUJ3**	—	**5GUJ6**
IMC	316 Stainless Steel	10 ft	Calbrite	**36LL63**	**36LL64**	**36LL65**	—	**36LL66**	**36LL67**	—	—	—
IMC	304 Stainless Steel	10 ft	Calbrite	**36LL58**	**36LL59**	**36LL60**	—	**36LL61**	**36LL62**	—	—	—
IMC Without Thread w/o Threads	316 Stainless Steel	10 ft	Calbrite	**36LL53**	**36LL54**	**36LL55**	—	**36LL56**	**36LL57**	—	—	—
IMC Without Thread w/o Threads	304 Stainless Steel	10 ft	Calbrite	**36LL48**	**36LL49**	**36LL50**	—	**36LL51**	**36LL52**	—	—	—
RMC	Steel	10 ft	Allied	**5ZM19**	**5ZM30**	**5ZM17**	**5GUJ7**	**5GUJ8**	**5ZM25**	**5GUJ9**	**5GUK0**	**5GUK2**
RMC	Aluminum	10 ft	Allied	**5ZM18**	**5ZM29**	**5ZM16**	**5GUK7**	**5GUK8**	**5ZM22**	**5GUK9**	**5GUL0**	**5GUL2**
RMC	316 Stainless Steel	10 ft	Calbrite	**36LL39**	**36LL40**	**36LL41**	**36LL42**	**36LL43**	**36LL44**	**36LL45**	**36LL46**	**36LL47**
RMC	304 Stainless Steel	10 ft	Calbrite	**36LL30**	**36LL31**	**36LL32**	**36LL33**	**36LL34**	**36LL35**	**36LL36**	**36LL37**	**36LL38**

Description	Material	Brand	CONDUIT SIZE ½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
EMT Conduit Elbows								
90°	Steel	Raco	**52AX90**	**52AX91**	**52AV06**	**52AV03**	**52AV05**	**52AV04**
90°	316 Stainless Steel	Calbrite	**36LK75**	**36LK76**	**36LK77**	—	—	—
90°	304 Stainless Steel	Calbrite	**36LK72**	**36LK73**	**36LK74**	—	—	—
Rigid Conduit Elbows								
45°	316 Stainless Steel	Calbrite	**36LJ34**	**36LJ35**	**36LJ36**	**36LJ37**	**36LJ38**	**36LJ39**
45°	304 Stainless Steel	Calbrite	**36LJ25**	**36LJ26**	**36LJ27**	**36LJ28**	**36LJ29**	**36LJ30**
90°	Steel	Raco	**52AX75**	**52AU84**	**52AV19**	**52AX76**	**52AV41**	**52AV24**
90°	316 Stainless Steel	Calbrite	**36LJ16**	**36LJ17**	**36LJ18**	**36LJ19**	**36LJ20**	**36LJ21**
90°	304 Stainless Steel	Calbrite	**36LJ07**	**36LJ08**	**36LJ09**	**36LJ10**	**36LJ11**	**36LJ12**
Rigid Conduit Nipples								
2" Length	Steel	Raco	**52AX77**	**52AX78**	—	—	—	—
3" Length	Steel	Raco	—	—	—	**52AX85**	—	**52AX82**
5" Length	Steel	Raco	—	—	—	—	—	**52AX84**
6" Length	Steel	Raco	—	**52AX86**	**52AX87**	**52AX88**	**52AX89**	—
Chase Closed	Zinc	Raco	**3LP48**	**3LP49**	**3LP50**	**3LP51**	**3LP52**	**3LP53**
Close Length	Steel	Raco	**52AU68**	**52AU73**	**52AX79**	**52AX80**	**52AX81**	**52AX83**
Close Length	316 Stainless Steel	Calbrite	**36LL21**	**36LL22**	**36LL23**	**36LL24**	**36LL25**	**36LL26**
Close Length	304 Stainless Steel	Calbrite	**36LL12**	**36LL13**	**36LL14**	**36LL15**	**36LL16**	**36LL17**
Offset Nipples	Zinc	Raco	**30EJ92** ‡	**30EJ93** †	**30EJ94** *	—	—	—

** Pkg. of 15. † Pkg. of 20. ‡ Pkg. of 50.*

90° Pulling Elbows

Threaded UB body style.

52AW04

36LK14

Conduit Outlet Body Hub Size	Special Features	Brand	Mfr. Model	Item No.
Zinc				
½ in	EMT to Box 90°	Raco	2762	**6XC48**
½ in	Rigid	Raco	2662	**52AW04**
¾ in	EMT to Box 90°	Raco	2763	**6XC49**
¾ in	Rigid	Raco	2663	**52AW11**
1 in	Rigid	Raco	2654	**52AW14**
1 in	Male/Female, Rigid	Raco	2664RAC	**52AW22**
316 Stainless Steel				
¾ in	Rigid	Calbrite	S60700P900	**36LK14**
1 in	Rigid	Calbrite	S61000P900	**36LK15**

RACO® A Division of Hubbell Incorporated (Delaware)

Calbrite Stainless Steel Conduit Systems

Conduit Fittings

Use to couple, connect, fasten, or ground conduit or cables.

Item	Conduit Fitting Material	For Use With	Brand	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Bushing									
Bushing	Malleable Iron	Fittings, Threaded RMC	Raco	52AX73	52AV43	52AV61	52AV89	52AV91	52AV83
Grounding Bushing	Malleable Iron	Fittings, Threaded RMC	Raco	—	—	—	52AX63	52AX64	52AX65
Grounding Bushing	Die Cast Zinc	Threaded RMC	Raco	52AV17	52AU89	52AV09	—	—	—
Grounding Bushing	316 SS	RMC	Calbrite	—	36LK16	36LK17	—	—	—
Insulating Bushing	Plastic	Fittings, Threaded RMC	Raco	52AU51	52AU53	52AU60	52AU81	52AU80	52AU70
Non-Metallic Bushing	Plastic	EMT	Raco	52AU90	52AU86	52AV18	52AV63	52AV38	52AV33
Cap									
End Caps	316 SS	Threaded Metallic Conduit	Calbrite	36LK42	36LK43	36LK44	36LK45	36LK46	36LK47
Knockout Plug	Steel	Electrical Boxes and Enclosures	Raco	52AW71	52AW72	52AW73	52AW74	52AW75	52AW76
Connector									
Compression Conduit Connector	Steel	EMT	Raco	52AU75	52AU82	52AV21	52AV57	52AV72	52AV74
Compression Conduit Connector	Steel	EMT	Raco	52AU97	52AU91	52AV52	52AV69	52AV90	52AV82
Compression Conduit Connector	Steel	EMT	Raco	52AU55	52AU57	52AU74	52AV31	52AV42	52AV30
Compression Conduit Connector	Die Cast Zinc	EMT	Raco	52NE11	52NE12	52AU95	52AV36	—	—
Compression Conduit Connector	316 SS	EMT	Calbrite	36LK48	36LK49	36LK50	36LK51	36LK52	36LK53
Conduit Connector, Two-Piece	Die Cast Zinc	EMT	Raco	52AV60	52AV75	—	—	—	—
Rigid Compression Connector	316 SS	RMC	Calbrite	36LK23	36LK24	36LK25	—	36LK26	36LK27
Rigid Set Screw Connector	Steel	Unthreaded RMC	Raco	52AV39	—	52AV66	52AV40	52AV94	52AV92
Set Screw Conduit Connector	Steel	EMT	Raco	52AU49	52AU61	52AU94	52AV32	52AV62	52AV50
Set Screw Conduit Connector	Steel	EMT	Raco	—	52AU83	—	—	—	52AV70
Set Screw Conduit Connector	Die Cast Zinc	EMT	Raco	52AU85	52AV10	52AV35	52AV45	52AV48	52AV71
Set Screw Conduit Connector	Die Cast Zinc	EMT	Raco	52AU43	52AU46	52AU76	52AV14	52AU98	52AV15
Set Screw Conduit Connector	316 SS	EMT	Calbrite	36LK60	36LK61	36LK62	36LK63	36LK64	36LK65
Threaded Chase Nipple	316 SS	Threaded Metallic Conduit	Calbrite	36LK05	36LK06	36LK07	36LK08	36LK09	36LK10
Coupling									
Combination Conduit Coupling	Steel	Unthreaded EMT	Raco	52AV93	52AV79	—	—	—	—
Combination Conduit Coupling	Steel	IMC, RMC, Unthreaded EMT	Raco	—	—	52AV99	—	—	—
Combination Conduit Coupling	Malleable Iron	EMT Conduit to Flexible Conduit	Raco	52AV28 *	52AV27	—	—	—	—
Combination Conduit Coupling	Die Cast Zinc	EMT Conduit to Flexible Conduit	Raco	52AV08	—	—	—	—	—
Compression Conduit Coupling	Steel	EMT	Raco	52AU67	52AU62	52AU99	52AV47	52AV67	52AV56
Compression Conduit Coupling	Steel	EMT	Raco	—	52AU79	52AV12	52AV51	52AV73	52AV68
Compression Conduit Coupling	Die Cast Zinc	EMT	Raco	—	52AU65	52AV02	52AV25	52AV34	—
Compression Conduit Coupling	316 SS	EMT	Calbrite	36LK54	36LK55	36LK56	36LK57	36LK58	36LK59
Compression Coupling	Steel	Unthreaded RMC	Raco	52AV23	52AV16	52AV53	52AV84	52AV81	52AV87
Compression Coupling	316 SS	RMC	Calbrite	36LK18	36LK19	36LK20	—	36LK21	36LK22
Set Screw Conduit Coupling	Steel	EMT	Raco	52AU58	52AU59	52AU96	52AV37	52AV64	52AV44
Set Screw Conduit Coupling	Die Cast Zinc	EMT	Raco	52AU44	52AU52	52AU77	52AV13	52AV22	52AV07
Set Screw Conduit Coupling	316 SS	EMT	Calbrite	36LK66	36LK67	36LK68	36LK69	36LK70	36LK71
Set Screw Coupling	Steel	Unthreaded RMC	Raco	—	52AV49	—	52AV98	52AV55	52AV95
Set Screw Coupling	Steel	IMC, Unthreaded RMC	Raco	—	—	52AV77	—	—	—
Threaded Coupling	Steel	Threaded RMC	Raco	52AU48	52AU50	52AU66	—	52AV01	52AX74
Threaded Coupling	316 SS	Threaded Metallic Conduit	Calbrite	36LJ61	36LJ62	36LJ63	36LJ64	36LJ65	36LJ66
Threaded Coupling - Three-Piece	Malleable Iron	Threaded RMC	Raco	52AU93	52AU78	52AV26	52AV65	52AV78	52AV85
Threaded Coupling - Three-Piece	316 SS	Threaded Metallic Conduit	Calbrite	36LJ95	36LJ96	36LJ97	36LJ98	36LJ99	36LK01
Threaded Plugs	316 SS	Threaded Metallic Conduit	Calbrite	36LJ71	36LJ72	36LJ73	36LJ74	36LJ75	36LJ76
Elbow									
Short Elbow	Malleable Iron	Threaded RMC	Raco	52AV20	52AV29	—	—	—	—
Escutcheon Plate									
Wall Grommets for RMC/IMC	304 SS	RMC	Calbrite	36LK82	36LK83	36LK84	36LK85	36LK86	36LK87
Hub									
Grounding Lug Hubs for RMC/IMC	316 SS	Threaded Metallic Conduit	Calbrite	36LJ52	36LJ53	36LJ54	36LJ55	36LJ56	36LJ57
Hubs (Myers) for RMC/IMC	Die Cast Zinc	Threaded RMC	Raco	52AU56	52AU47	52AU63	52AU92	52NE21	52AU87
Hubs (Myers) for RMC/IMC	316 SS	Threaded Metallic Conduit	Calbrite	36LJ43	36LJ44	36LJ45	36LJ46	36LJ47	36LJ48
Locknut									
Grounding LockNut for Threaded RMC/IMC	Steel	Fittings, Threaded RMC	Raco	52AV54	—	52AV76	52AV80	52AV88	52AV86
LockNut for Threaded RMC/IMC	Steel	Fittings, Threaded RMC	Raco	52AU42	52AU45	52AU54	52AU72	52AU71	52AU64
LockNut for Threaded RMC/IMC	316 SS	Threaded Metallic Conduit	Calbrite	36LL03	36LL04	36LL05	36LL06	36LL07	36LL08

Conduit Size	Material	Brand	REDUCING BUSHING Item No.	REDUCING WASHER Item No.
Reducing Bushings & Washers				
¾" to ½"	Steel	Raco	52AW35	52AW36
1" to ½"	Steel	Raco	52AW39	—
1" to ½"	316 SS	Calbrite	36LJ81	—
1" to ¾"	Steel	Raco	52AW38	52AW37
1" to ¾"	316 SS	Calbrite	36LJ82	—
1¼" to ½"	Steel	Raco	52AW56	52AW45
1¼" to ½"	316 SS	Calbrite	36LJ83	—
1¼" to ¾"	Steel	Raco	52AW47	52AW40
1¼" to ¾"	316 SS	Calbrite	36LJ84	—
1¼" to 1"	Steel	Raco	52AW44	52AW41
1¼" to 1"	316 SS	Calbrite	36LJ85	—
1½" to ½"	Steel	Raco	52AW61	52AW49
1½" to ½"	316 SS	Calbrite	36LJ86	—
1½" to ¾"	Steel	Raco	52AW46	52AW42
1½" to ¾"	316 SS	Calbrite	36LJ87	—
1½" to 1"	Steel	Raco	52AW48	52AW43
1½" to 1"	316 SS	Calbrite	36LJ88	—
1½" to 1¼"	Steel	Raco	52AW50	52AW51
1½" to 1¼"	316 SS	Calbrite	36LJ89	—
2" to ½"	Steel	Raco	52AW70	52AW59
2" to ½"	316 SS	Calbrite	36LJ90	—
2" to ¾"	Steel	Raco	52AW66	52AW54
2" to ¾"	316 SS	Calbrite	36LJ91	—
2" to 1"	Steel	Raco	52AW60	52AW52
2" to 1"	316 SS	Calbrite	36LJ92	—
2" to 1¼"	Steel	Raco	52AW63	52AW57
2" to 1¼"	316 SS	Calbrite	36LJ93	—
2" to 1½"	Steel	Raco	52AW55	52AW53
2" to 1½"	316 SS	Calbrite	36LJ94	—
2½" to 1"	Steel	Raco	—	52AW65
2½" to 1¼"	Steel	Raco	—	52AW69
2½" to 1½"	Steel	Raco	—	52AW64
2½" to 2"	Steel	Raco	—	52AW62
3" to 1¼"	Steel	Raco	—	52AW68
3" to 1½"	Steel	Raco	—	52AW67
3" to 2"	Steel	Raco	—	52AW58

Item	Conduit Fitting Material	For Use With	Brand	2 ½ in Item No.	3 in Item No.	3 ½ in Item No.	4 in Item No.
Large Diameter Fittings							
Compression Conduit Connector	Die Cast Zinc	EMT	Raco	20VE11	20VE12	20VE13	20VE14
Compression Conduit Coupling	Die Cast Zinc	EMT	Raco	20VE15	20VE16	20VE17	20VE18
Compression Coupling	Steel/Malleable Iron	RMC	Raco	20VE35	20VE36	20VE37	20VE38
Grounding LockNut for Threaded RMC/IMC	Steel	Fittings, Threaded RMC	Raco	52AV97	—	—	—
Grounding Lug Hubs for RMC/IMC	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ58	36LJ59	—	36LJ60
Hubs (Myers) for RMC/IMC	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ49	36LJ50	—	36LJ51
LockNut for Threaded RMC/IMC	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LL09	36LL10	—	36LL11
Rigid Compression Connector	Steel/Malleable Iron	RMC	Raco	20VE31	20VE32	20VE33	20VE34
Set Screw Conduit Connector	Steel	EMT	Raco	20VE23	20VE24	20VE21	20VE26
Set Screw Conduit Connector	Steel	EMT	Raco	20VE19	20VE20	20VE25	20VE22
Set Screw Conduit Coupling	Steel	EMT	Raco	20VE27	20VE28	20VE29	20VE30
Threaded Chase Nipple	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LK11	36LK12	—	36LK13
Threaded Coupling	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ67	36LJ68	36LJ69	36LJ70
Threaded Coupling - Three-Piece	Steel	Threaded Metallic Conduit	Raco	20VE39	20VE40	20VE41	20VE42
Threaded Coupling - Three-Piece	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LK02	36LK03	—	36LK04
Threaded Plugs	316 Stainless Steel	Threaded Metallic Conduit	Calbrite	36LJ77	36LJ78	—	36LJ79
Wall Grommets for RMC/IMC	304 Stainless Steel	RMC	Calbrite	36LK88	36LK89	—	—

** 1/2" EMT to 3/8" FMC.*

Pull Elbows

Pull elbows have a removable cover that allows users to pull wire and cable or perform maintenance.

Compatible Conduit Type	Thread Gender	Material	Brand	Item No.
½ in Size				
IMC, RMC	Female to Female	Zinc	Bell	**35U165**
IMC, RMC	Male to Female	Zinc	Raco	**52AW04**
¾ in Size				
IMC, RMC	Female to Female	Zinc	Bell	**35U137**
IMC, RMC	Male to Female	Zinc	Raco	**52AW11**
RMC	Female to Female	316 Stainless Steel	Calbrite	**36LK14**
1 ¼ in Size				
EMT, RMC	Female to Female	Zinc	Arlington	**4JWK8**
EMT, RMC	Male to Female	Zinc	Arlington	**4JWK4**
IMC, RMC	Female to Female	Iron	Appleton Electric	**6RUR1**
1 ½ in Size				
IMC, RMC	Female to Female	Iron	Appleton Electric	**6RUR3**
1 in Size				
IMC, RMC	Female to Female	Zinc	Raco	**52AW14**
IMC, RMC	Male to Female	Zinc	Raco	**52AW22**
RMC	Female to Female	316 Stainless Steel	Calbrite	**36LK15**

4JWK8

Style T Raco Aluminum 52AW03

Style LB Killark Duraloy®7 2NA56

Conduit Bodies

- For a NEMA 3 seal, use with cover and neoprene gasket (both sold separately) except as noted

Provides access to conductors for pulling, splitting, and maintenance. Flat-back design increases wiring capacity and mounting stability. Covers include stainless steel screws. Larger sizes available on Grainger.com®.

Description	½ in Mfr. Model	½ in Item No.	¾ in Mfr. Model	¾ in Item No.	1 in Mfr. Model	1 in Item No.	1 ¼ in Mfr. Model	1 ¼ in Item No.	1 ½ in Mfr. Model	1 ½ in Item No.	2 in Mfr. Model	2 in Item No.
Raco Aluminum, Form 85												
LB	LB050	**52AW01**	LB075	**52AW02**	LB100	**52AW08**	LB125	**52AW16**	LB150	**52AW18**	LB200	**52AW17**
LR	LR050	**52AW06**	LR075	**52AW09**	LR0100	**52AW20**	LR125	**52AW29**	LR150	**52AW28**	LR200	**52AW25**
LL	LL050	**52AW10**	LL075	**52AW13**	LL0100	**52AW19**	LL125	**52AW31**	LL150	**52AW27**	LL200	**52AW34**
T	T050	**52AW03**	T075	**52AW05**	T100	**52AW15**	T125	**52AW23**	T150	**52AW24**	T200	**52AW32**
C	RC050	**52AW07**	RC075	**52AW12**	RC100	**52AW21**	RC125	**52AW26**	RC150	**52AW30**	RC200	**52AW33**
Cover	CSC050	**52AU31**	CSC075	**52AU33**	CSC100	**52AU35**	CSC125	**52AU37**	CSC150	**52AU39**	CSC200	**52AU38**
Gasket	CRG050	**52AU32**	CRG075	**52AU34**	CRG100	**52AU36**	CRG125	**52AU40**	CRG125	**52AU40**	CRG200	**52AU41**
Appleton Electric Copper Free Aluminum, Form 85, Setscrew												
LB	LB50T-A	**10V967**	LB75T-A	**10V977**	LB100T-A	**10V931**	LB125T-A	**10V937**	LB150T-A	**10V940**	LB200T-A	**10V946**
LL	LL50T-A	**10W024**	LL75T-A	**10W033**	LL100T-A	**10V989**	LL125T-A	**10V994**	LL150T-A	**10V997**	LL200T-A	**10W004**
T	T50T-A	**10W130**	T75T-A	**10W139**	T100T-A	**10W098**	—	—	—	—	—	—
C	C50T-A	**10Y698**	C75T-A	**10V895**	C100T-A	**10Y667**	C125T-A	**10Y670**	C150T-A	**10Y673**	—	—
Cover	K50-A	**10V925**	K75-A	**10V928**	K100-A	**10V912**	—	—	—	—	K200-A	**10V918**
Gasket	GK50-N	**10V908**	GK75-N	**10V910**	GK100-N	**10V902**	GK125-150-N	**10V903**	GK125-150-N	**10V903**	GK200-N	**10V904**
Power First Iron, Form 5												
Cover	SSC050	**52AX94**	SSC075	**52AX95**	SSC100	**52AX96**	SSC125	**52AX97**	—	—	SSC200	**52AX98**
Hubbell Killark 5 Aluminum												
LB	OLB-1CG	**4TZR1**	OLB-2CG	**4TZR2**	OLB-3CG	**4TZR3**	OLB-4CG	**4TZR4**	OLB-5CG	**4TZR5**	OLB-6CG	**4TZR6**
X	OX-1	**49ZW31**	OX-2	**49ZW26**	OX-3	**49ZW47**	—	—	—	—	—	—
Hubbell Killark 5 Copper Free Aluminum												
LB	OLB-1	**2NA99**	OLB-2	**2NB11**	OLB-3	**2NB13**	OLB-4	**2NB15**	OLB-5	**2NB17**	OLB-6	**2NB19**
LR	OLR-1	**2NB36**	OLR-2	**2NB38**	OLR-3	**2NB40**	OLR-4	**2NB42**	—	—	OLR-6	**2NB46**
LL	OLL-1	**2NB24**	OLL-2	**2NB26**	OLL-3	**2NB28**	OLL-4	**2NB30**	OLL-5	**2NB32**	OLL-6	**2NB34**
T	OT-1	**2NB48**	OT-2	**2NB51**	OT-3	**2NB55**	OT-4	**2NB59**	OT-5	**2NB63**	OT-6	**2NB67**
C	OC-1	**2NA75**	OC-2	**2NA77**	OC-3	**2NA79**	OC-4	**2NA81**	OC-5	**2NA83**	OC-6	**2NA85**
Cover	OL-10	**2NA87**	OL-20	**2NA89**	OL-30	**2NA91**	OL-450	**2NA93**	OL-450	**2NA93**	OL-60	**2NA96**
Hubbell Killark Duraloy®5 Iron												
LB	OLB-1M	**2NB10**	OLB-2M	**2NB12**	OLB-3M	**2NB14**	OLB-4M	**2NB16**	OLB-5M	**2NB18**	OLB-6M	**2NB20**
LR	OLR-1M	**2NB37**	OLR-2M	**2NB39**	OLR-3M	**2NB41**	OLR-4M	**2NB43**	OLR-5M	**2NB45**	OLR-6M	**2NB47**
LL	OLL-1M	**2NB25**	OLL-2M	**2NB27**	OLL-3M	**2NB29**	OLL-4M	**2NB31**	OLL-5M	**2NB33**	OLL-6M	**2NB35**
T	OT-1M	**2NB49**	OT-2M	**2NB53**	OT-3M	**2NB57**	OT-4M	**2NB61**	OT-5M	**2NB65**	OT-6M	**2NB69**
C	OC-1M	**2NA76**	OC-2M	**2NA78**	OC-3M	**2NA80**	OC-4M	**2NA82**	OC-5M	**2NA84**	OC-6M	**49ZW71**
TB	OTB-1M	**2NB73**	OTB-2M	**2NB77**	OTB-3M	**2NB81**	OTB-4M	**2NB85**	OTB-5M	**2NB89**	OTB-6M	**2NB93**
X	OX-1M	**49ZW29**	OX-2M	**49ZW24**	OX-3M	**49ZW36**	OX-4M	**49ZX19**	OX-5M	**49ZW88**	OX-6M	**49ZW72**
Cover	OL-10M	**2NA88**	OL-20M	**2NA90**	OL-30M	**2NA92**	OL-45M	**2NA94**	OL-45M	**2NA94**	OL-60	**2NA98**
Gasket	OLK-1RG	**2NB21**	OLK-2RG	**2NB22**	OLK-3RG	**2NB23**	OL-45-RG	**2NA95**	OL-45-RG	**2NA95**	OL-6-RG	**2NA97**
Hubbell Killark Duraloy®7 Gray Iron												
LB	LB17	**2NA56**	LB27	**2NA57**	LB37	**2NA58**	LB47	**2NA59**	LB57	**2NA60**	LB67	**2NA61**
LR	LR17	**2NA68**	LR27	**2NA69**	LR37	**2NA70**	LR47	**2NA71**	LR57	**2NA72**	LR67	**2NA73**
LL	LL17	**2NA62**	LL27	**2NA63**	LL37	**2NA64**	LL47	**2NA65**	LL57	**2NA66**	LL67	**2NA67**
T	T17	**2NE39**	T27	**2NE40**	T37	**2NE41**	T47	**2NE42**	T57	**2NE43**	T67	**2NE44**
C	C17	**2MY76**	C27	**2MY77**	C37	**2MY78**	C47	**2MY79**	C57	**2MY80**	C67	**2MY81**
TB	TB17	**2NE45**	TB27	**2NE46**	TB37	**2NE47**	TB47	**2NE48**	TB57	**2NE49**	TB67	**2NE50**
X	X17	**49ZW28**	X27	**49ZW23**	X37	**49ZW33**	X47	**49ZW70**	X57	**49ZX53**	—	—
Cover	170	**2MY56**	270	**2MY57**	370	**2MY58**	470	**2MY59**	570	**2MY60**	670	**2MY61**
Gasket	GASK571	**2NA30**	GASK572	**2NA31**	GASK573	**2NA32**	GASK574	**2NA33**	GASK575	**2NA34**	GASK576	**2NA35**
Hubbell Killark Duraloy®8 Gray Iron												
LB	LB18	**49ZW43**	LB28	**49ZW38**	LB38	**49ZW59**	LB448	**49ZW61**	LB58	**49ZW67**	LB68	**49ZW49**
LR	LR18	**49ZW92**	LR28	**49ZW73**	LR38	**49ZX09**	—	—	LR58	**49ZX15**	LR68	**49ZW58**
LL	LL18	**49ZW46**	LL28	**49ZX07**	LL38	**49ZW89**	—	—	LL58	**49ZW83**	LL68	**49ZW79**
T	T18	**49ZW75**	T28	**49ZW34**	T38	**49ZW64**	T448	**49ZX22**	T58	**49ZX31**	T68	**49ZX29**
C	C18	**49ZW48**	C28	**49ZW44**	C38	**49ZW96**	C448	**49ZX34**	—	—	—	—
X	X18	**49ZX44**	X28	**49ZW63**	X38	**49ZW52**	X448	**49ZX37**	X58	**49ZW98**	X68	**49ZX57**
Calbrite 316 Stainless Steel, Includes Cover and Gasket, Form 8												
LB	S60500LB00	**36LL74**	S60700LB00	**36LL75**	S61000LB00	**36LL76**	S61200LB00	**36LL77**	S61500LB00	**36LL78**	S62000LB00	**36LL79**
LR	S60500LR00	**36LL88**	S60700LR00	**36LL89**	S61000LR00	**36LL90**	—	—	S61500LR00	**36LL91**	S62000LR00	**36LL92**
LL	S60500LL00	**36LL83**	S60700LL00	**36LL84**	S61000LL00	**36LL85**	—	—	S61500LL00	**36LL86**	S62000LL00	**36LL87**
T	S60500TE00	**36LL93**	S60700TE00	**36LL94**	S61000TE00	**36LL95**	S61200TE00	**36LL96**	S61500TE00	**36LL97**	S62000TE00	**36LL98**
C	S60500CE00	**36LL68**	S60700CE00	**36LL69**	S61000CE00	**36LL70**	S61200CE00	**36LL71**	S61500CE00	**36LL72**	S62000CE00	**36LL73**
TB	S60500TB00	**36LM03**	S60700TB00	**36LM04**	S61000TB00	**36LM05**	—	—	S61500TB00	**36LM06**	S62000TB00	**36LM07**
XB	S60500XB00	**36LM08**	S60700XB00	**36LM09**	S61000XB00	**36LM10**	—	—	S61500XB00	**36LM11**	S62000XB00	**36LM12**
Cover & Gasket	S60500CG00	**36LM13**	S60700CG00	**36LM14**	S61000CG00	**36LM15**	—	—	S61500CG00	**36LM16**	S62000CG00	**36LM17**

RACO ALUMINUM

Durable die-cast aluminum construction with premium powder-coated finish. Combination head screw and stamped aluminum cover (sold separately).

APPLETON ELECTRIC ALUMINUM

Provide greater cubic content for easier wire pulling, and additional room for splicing. Fit flush and snug against flat surfaces for stable installation.

POWER FIRST® IRON

Features chrome powdered finish with zinc-plating for corrosion resistance. Works with Raco gaskets.

KILLARK® 5 ALUMINUM

Tapered threaded hubs. Raintight when used with gasketed covers. Use with the same gasket as Duraloy 5.

KILLARK® DURALOY®5 IRON

Excellent for high-abuse areas. Suitable for concrete burial. Duraloy® tricoat finish provides superior corrosion protection.

KILLARK DURALOY®7 GRAY IRON

Spring-clip cover ensures easy installation. Duraloy® tricoated finish provides superior corrosion protection. Smooth, integral wire bushings to protect against damage while wire-pulling.

KILLARK DURALOY®8 GRAY IRON

Flat back design provides greater cubic capacity for easier wire pulling and more room for splicing and maintenance. Feature interchangeable competitive bodies, gaskets, and covers with smooth integral wire bushings.

CALBRITE™ STAINLESS STEEL

Designed to connect and change direction of conduit runs; can also be used as pulling fittings. Feature 316 stainless steel construction polished with standard "brite" finish to increase corrosion resistance and aesthetic appearance.

Scan. Order. Done.
Details on page A1.

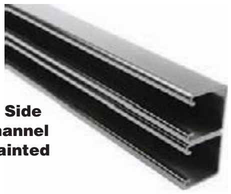
Superstrut®
Metal Framing

Solid Channel Pre-Galvanized Steel

Slotted Channel Stainless Steel

Long Slotted Channel Zinc-Plated Steel

Back to Back Slotted Channel Green Painted



Side to Side Solid Channel Black Painted

Angle Plate

Post Base Squared

Channel Cover

Jr. Top Beam C-Clamp

Thread Rod Coupling

Universal Pipe Clamp

Clevis Hanger

Channel Cushioned Pipe Clamp

Strut Channel Size	L	Gauge	ZINC-PLATED STEEL Item No.	WHITE PAINTED STEEL Item No.	PRE-GALVANIZED STEEL Item No.	GREEN PAINTED STEEL Item No.	BLACK PAINTED STEEL Item No.	ALUMINUM Item No.	304 STAINLESS STEEL Item No.
Back to Back Slotted Channel									
1⅝ in x 1⅝ in	1 ft	14 ga	—	45YX11	45YX04	45YW96	45YX18	—	45YX25
	1 ft 6 in	14 ga	—	45YX12	45YX05	45YW97	45YX19	—	45YX26
	2 ft	14 ga	—	45YX13	45YX06	45YW98	45YX20	—	45YX27
	3 ft	14 ga	—	45YX14	45YX07	45YW99	45YX21	—	45YX28
	4 ft	14 ga	—	45YX15	45YX08	45YX01	45YX22	—	45YX29
	5 ft	14 ga	—	45YX16	45YX09	45YX02	45YX23	—	45YX30
	10 ft	14 ga	—	45YX17	45YX10	45YX03	45YX24	—	45YX31
1⅝ in x 3¼ in	1 ft	12 ga	—	45YW75	45YW68	45YW61	45YW82	—	45YW89
	1 ft 6 in	12 ga	—	45YW76	45YW69	45YW62	45YW83	—	45YW90
	2 ft	12 ga	—	45YW77	45YW70	45YW63	45YW84	—	45YW91
	3 ft	12 ga	—	45YW78	45YW71	45YW64	45YW85	—	45YW92
	4 ft	12 ga	—	45YW79	45YW72	45YW65	45YW86	—	45YW93
	5 ft	12 ga	—	45YW80	45YW73	45YW66	45YW87	—	45YW94
	10 ft	12 ga	—	45YW81	45YW74	45YW67	45YW88	—	45YW95
Side to Side Solid Channel									
1⅝ in x 3¼ in	10 ft	12 ga	—	45YX35	45YX32	45YX33	45YX36	—	45YX34
Single Solid Channel									
1⅝ in x 1⅝ in	1 ft	12 ga	—	45YW01	45YV95	45YV90	45YW07	45YW19	45YW13
	1 ft 6 in	12 ga	—	45YW02	45YV96	45YV91	45YW08	45YW20	45YW14
	2 ft	12 ga	—	45YW03	45YV97	45YV92	45YW09	45YW21	45YW15
	3 ft	12 ga	—	45YW04	45YV98	45YV93	45YW10	45YW22	45YW16
	4 ft	12 ga	—	45YW05	45YV99	45YV94	45YW11	45YW23	45YW17
	5 ft	12 ga	—	45YW06	—	—	45YW12	45YW24	45YW18
	10 ft	12 ga	2HAL5	—	5YB82	4A975	—	45YW25	2HAN3
1⅝ in x 13⁄16 in	1 ft	14 ga	—	45YW36	45YW31	45YW26	45YW42	45YW54	45YW48
	1 ft 6 in	14 ga	—	45YW37	45YW32	45YW27	45YW43	45YW55	45YW49
	2 ft	14 ga	—	45YW38	45YW33	45YW28	45YW44	45YW56	45YW50
	3 ft	14 ga	—	45YW39	45YW34	45YW29	45YW45	45YW57	45YW51
	4 ft	14 ga	—	45YW40	45YW35	45YW30	45YW46	45YW58	45YW52
	5 ft	14 ga	—	45YW41	—	—	45YW47	45YW59	45YW53
	10 ft	14 ga	2HAN2	—	5YB83	5YB84	—	45YW60	2HAL6
Single Slotted Channel									
1⅝ in x 1⅝ in	1 ft	12 ga	—	45YV30	45YV25	45YV20	45YV36	45YV48	45YV42
	1 ft 6 in	12 ga	—	45YV31	45YV26	45YV21	45YV37	45YV49	45YV43
	2 ft	12 ga	—	45YV32	45YV27	45YV22	45YV38	45YV50	45YV44
	3 ft	12 ga	—	45YV33	45YV28	45YV23	45YV39	45YV51	45YV45
	4 ft	12 ga	—	45YV34	45YV29	45YV24	45YV40	45YV52	45YV46
	5 ft	12 ga	—	45YV35	—	—	45YV41	45YV53	45YV47
	10 ft	12 ga	2HAL8	—	5YB79	4A974	—	45YV54	2HAL9
	20 ft	12 ga	3ULX2 *	—	3ULW9	—	—	—	—
1⅝ in x 13⁄16 in	1 ft	14 ga	—	45YV65	45YV60	45YV55	45YV71	45YV83	45YV77
	1 ft 6 in	14 ga	—	45YV66	45YV61	45YV56	45YV72	45YV84	45YV78
	2 ft	14 ga	—	45YV67	45YV62	45YV57	45YV73	45YV85	45YV79
	3 ft	14 ga	—	45YV68	45YV63	45YV58	45YV74	45YV86	45YV80
	4 ft	14 ga	—	45YV69	45YV64	45YV59	45YV75	45YV87	45YV81
	5 ft	14 ga	—	45YV70	—	—	45YV76	45YV88	45YV82
	10 ft	14 ga	2HAN5	—	5YB80	5YB81	—	45YV89	2HAL3
	20 ft	14 ga	3ULX3 *	—	3ULX1 *	—	—	—	—
Single Long Slotted Channel									
1⅝ in x 1⅝ in	10 ft	12 ga	2HAN6	—	3ULW4	3ULW5	—	45YV18	3ULW8 *
1⅝ in x 13⁄16 in	10 ft	14 ga	2HAN9	—	3ULW6	3ULW7	—	45YV19	—

Description	SILVER Item No.	GOLD Item No.	Description	SILVER Item No.	GOLD Item No.
Fittings and Brackets			Flat Plate, Corner, 3-Hole	2HAK4	2HAK1
Angle Plate, 90°, 2-Hole	5YE32	2HAE9	Flat Plate, Corner, 5-Hole, Webbed	5YE39	2HAJ5
Angle Plate, 90°, 3-Hole	2HAJ1	2HAF7	Post Base Angled	2HZD7	—
Angle Plate, 90°, 4-Hole	5YE33	2HAF2	Post Base Squared	2HZD8	—
Angle Bracket 90°, 3-Hole	5YE25	—	2-Hole 90° Angle Plate w/Tabs	—	2HAE3
U Style with Plate	—	2HCJ4	Angle Bracket, Long Adj. Slot	—	2HAE4
Z Style with Set Screw	—	2HCJ5	Angle Bracket, Short Adj. Slot	—	2HAE5
Notched Hold Down	—	2HCJ6	45° Angle Fitting	—	2HAE6
Strut Through Clamp, For 12-ga.	—	2HCJ7	135° Angle Fitting	—	2HAE7
Channel Z Bracket, For 12-ga.	5YB93	2HAU8	Wing Shape Fitting, 3 Tabs	—	2HAE8
Channel Z Bracket, For 14-ga.	5YE46	2HAU9	Wing Shape Fitting, Tab Left	—	2HAF1
Channel U Bracket, For 12-ga.	5YE15	2HAU6	Wing Shape Fitting, Tab Right	—	2HAF3
Channel U Bracket, For 14-ga.	5YE48	2HAU7	Wing Shape Fitting, 180° Tabs	—	2HAF5
Flat Plate, Straight, 2-Hole	2HAJ7	2HAJ4	Channel Joiner Fitting, 4-Hole	2HAL1	2HAK7
Flat Plate, Straight, 3-Hole	5YE34	2HAF4	Channel Joiner Strap	5YE17	—
Flat Plate, Straight, 4-Hole	5YE56	2HAJ8	Junction Box, 2-Angle Bracket	5YE24 *	—
Flat Plate Tee, 4-Hole	5YE23	2HAF6	Channel Cover	5YE42 *	2HAK2 *
Flat Plate Tee, 5-Hole, Webbed	5YE37	2HAJ2	End Cap for 1⅝" sq. Channel	2HAK9 †	—
Flat Plate Cross, 5-Hole	5YE35	2HAF8	End Cap for 1⅝" x 13⁄16" Channel	2HAL4 †	—

Description	¼" Item No.	¼" Pkg. Qty.	⅜" Item No.	⅜" Pkg. Qty.	½" Item No.	½" Pkg. Qty.	Description	¼" Item No.	¼" Pkg. Qty.	⅜" Item No.	⅜" Pkg. Qty.	½" Item No.	½" Pkg. Qty.
Hardware							Hex Head Cap Screw	—	—	2HAK3	50	4A987	25
Spring Nuts, Silver, For 14-ga.	5YE44	25	5YE45	25	5YE43	25	Flat Round Washer	—	—	2HAK6	100	—	—
Spring Nuts, Silver, For 12-ga.	5YE10	25	5YE11	25	4A985	25	Saddle Washer for Threaded Rod	—	—	2HAF9 *	50	2HAF9 *	50
Spring Nuts, SS, For 12-ga.	2HAL7	25	2HAN1	25	2HAN4	25							
Springless Nuts, Silver	5YE28	25	5YE29	25	4A986	25	Threaded Rods, 10 Ft.	2HAP3 *	1	2HAP6 *	1	2HAP8 *	1
Channel Hex Nuts, Silver	5YE51	25	5YE52	25	5YE50	25	Threaded Rod, 12-Ft. Stainless Steel	—	—	2HAR3 *	1	2HAR5 *	1
Channel Square Washer, Silver	5YE58	25	5YE59	25	5YE57	25							
Channel Square Washer, Gold	2HAK5	25	2HAK8	25	2HAL2	25	Jr. Top Beam C-Clamp	—	—	2HCK1	1	2HCJ9	1
Square Washer, Stainless Steel	—	—	2HAP1	25	2HAP4	25	Top Beam C-Clamp	—	—	2HCK3	1	2HCK2	1
							C-Clamp with Locknut	—	—	2HCJ8	1	—	—
Trapnut, Gold	4KFU8 *	1	4KFU9 *	1	4KFV1 *	1	Thread Rod Coupling	5YE54	25	5YE55	25	5YE53	25

Description	Pkg. Qty.	½ in Item No.	¾ in Item No.	1 in Item No.	1 ¼ in Item No.	1 ½ in Item No.	2 in Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Strut Straps/Clamps, Small Diameter													
Universal Pipe Clamps, Silver	10	4A982	4A983	4A984	5YB98	5YB97	5YB99	—	—	—	—	—	—
Universal Pipe Clamps, Gold	10	—	—	—	—	—	—	2HAN8	2HAP2	2HAP5	2HAP7	2HAP9	2HAR2
Rigid Pipe Straps, Stainless Steel	10	2HCH7	2HCH8	2HCH9	2HCJ1	2HCJ2	2HCJ3	—	—	—	—	—	—
Angler Pipe Clamps, Gold	10	2HAR9 *	2HAU1 *	2HAU2 *	2HAU3 *	2HAU4 *	2HAU5 *	—	—	—	—	—	—

Strut Straps/Clamps, Large Diameter		2 IN	2 ½ IN	3 IN	3 ½ IN	4 IN
Clevis Hanger	1	2HCK4	2HCK5	2HCK6	—	2HCK7
Riser Clamp	1	2HCK8	—	2HCK9	—	2HCL1
Conduit Strap Clamp, Silver	10	—	5YB94	5YB95	2HCH6	5YB96
Conduit Strap Clamp, Gold	10	—	2HAR4	2HAR6	2HAR7	2HAR8

Cushioned Pipe Clamps		⅜ IN	⅝ IN	⅞ IN	1 ⅛ IN	1 ⅝ IN	2 ⅛ IN
O.D. Tubing Straps	1	2HCG6	2HCG9	2HCH1	2HCH2	2HCH4	2HCH5
Channel Cushioned Clamp	1	—	5YE21	5YE22	5YE18	5YE19	5YE20

** Superstrut brand. † Painted white.*

Conduit and Cable Clamps, Hangers, and Clips

B-Line series

Description	B-LINE BY EATON Mfr. Model	B-LINE BY EATON Item No.	NVENT CADDY Mfr. Model	NVENT CADDY Item No.
Strut Clamps, Attach Conduit or Cable to Standard Strut Channels; Unique 1-pc. Design Eliminates Handling of Hardware				
⅜" EMT, Saddle	B1506S	**4RHF2**	SCH6B	**2KWU9**
½" EMT, 200-lb. Rating	B1508	**4RHF3**	SCH8	**2KWU5**
½" EMT, 200-lb. Rating, Saddle	B1508S	**4RHF4**	SCH8B	**2KWV1**
¾" EMT, 200-lb. Rating	B1512	**4RHF5**	SCH12	**2KWU6**
¾" EMT, ½" Rigid, 200-lb. Rating, Saddle	B1512S	**4RHF6**	SCH12B	**2KWV2**
1" EMT, ¾" Rigid, 300-lb. Rating	B1516	**4RHF7**	SCH16	**2KWU7**
1" EMT, ¾" Rigid, 300-lb. Rating, Saddle	B1516S	**4RHF8**	SCH16B	**2KWV3**
1¼" EMT, 1" Rigid, 300-lb. Rating	B1520	**4RHF9**	SCH20	**2KWU8**
1¼" EMT, 1" Rigid, 300-lb. Rating, Saddle	B1520S	**4RHG1**	SCH20B	**2KWV4**
1½" EMT, 1¼" Rigid, 400-lb. Rating, Saddle	B1524S	**4RHG2**	SCH24B	**2KWV5**
2" EMT, 1½" Rigid, 400-lb. Rating, Saddle	B1532S	**4RHG3**	SCH32B	**2KWV6**
2½" EMT, 2½" Rigid, 400-lb. Rating, Saddle	B1540S	**4RHG4**	SCH48B	**2KWV7**
3" EMT, 3" Rigid, 400-lb. Rating, Saddle	B1548S	**4RHG5**	SCH56B	**2KWV8**
4" EMT, 4" Rigid, 400-lb. Rating, Saddle	B1564S	**4RHG6**	SCH72B	**2KWV9**
Conduit Hangers for EMT or Rigid Conduit, Include Captive Bolt and Built-In Nut; 400-lb. Rating				
½"	BL1400	**4RHZ3**	CD0B	**2KWP4**
¾"	BL1410	**4RHZ4**	CD1B	**2KWP5**
1"	BL1420	**4RHZ5**	CD2B	**2KWP6**
2"	BL1450	**4RHZ6**	CD5B	**2KWP7**
EMT and Rigid Snap-Close Conduit Clips, Load Rating: 100 lb. for Vertical; 25 lb. for Horizontal				
½" and ¾" Conduit with ¼" Hole	BG-8-12	**4RHV2**	812M	**2KWP2**
½" and ¾" Conduit with ¼" Thread Impression	BG-8-12-4T	**4RHV3**	—	—
EMT and Rigid Snap-Close Conduit Clips to Stud Fastener				
⅜" Conduit and MC/AC Cable	BG-6-B5	**4RHU7**	—	—
½" and ¾" Conduit	BG-8-12-B5	**4RHV6**	812MF	**2KXB7**
1" Conduit	BG-16-B5	**4RHT4**	16MF	**2KXB5**
EMT and Rigid Snap-Close Conduit Clips with Hammer-On Edge Clip Fastener				
⅜" Conduit/Cable, ⅛ to ¼" Beam Thickness	BG-6-E-2-4	**4RHU8**	—	—
½" and ¾" Conduit, ⅛ to ¼" Beam Thickness	BG-8-12-E-2-4	**4RHV8**	812M24SM	**2KWP9**
½" and ¾" Conduit, 5⁄16 to ½" Beam Thickness	BG-8-12-E-5-8	**4RHV9**	812M58SM	**2KWR2**
1" Conduit, ⅛ to ¼" Beam Thickness	BG-16-E-2-4	**4RHT5**	16M24SM	**2KWR5**
1¼" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-20-E-2-4	**4RHT9**	20M24SM	**2KWR8**
1¼" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	BG-20-U-2-4	**4RHU1**	20M24	**2KWR7**
1½" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-24-E-2-4	**4RHU2**	24M24SM	**2KWT1**
1½" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	BG-24-U-2-4	**4RHU3**	24M24	**2KWR9**
2" Conduit, ⅛ to ¼" Beam Thickness, Side Support	BG-32-E-2-4	**4RHU4**	32M24SM	**2KWT3**
2" Conduit, ⅛ to ¼" Beam Thickness, Bottom Support	—	—	32M24	**2KWT2**
EMT and Rigid Snap-Close Conduit Clips with Hammer-On Universal Beam Fastener				
⅜" Conduit, 5⁄16" to ½" Beam Thickness	BG-6-U-5-8	**4RHV1**	6M58	**2KWT6**
⅜" Conduit, ⅛ to ¼" Beam Thickness	BG-6-U-2-4	**4RHU9**	6M24	**2KWT4**
½" and ¾" Conduit, ⅛ to ¼" Beam Thickness	BG-8-12-U-2-4	**4RHW7**	812M24	**2KWP8**
½" and ¾" Conduit, 5⁄16 to ½" Beam Thickness	BG-8-12-U-5-8	**4RHW8**	812M58	**2KWR1**
½" and ¾" Conduit, 9⁄16 to ¾" Beam Thickness	BG-8-12-U-9-12	**4RHW9**	812M912	**2KWR3**
1" Conduit, ⅛ to ¼" Beam Thickness	BG-16-U-2-4	**4RHT7**	—	—
1" Conduit, 5⁄16 to ½" Beam Thickness	BG-16-U-5-8	**4RHT8**	16M58	**2KWR6**
Bat Wing Conduit/Cable Hanger, Max Load: 50 lb. for Wire/Rod; 25 lb. for Vertical Flange; 100 lb. for Horizontal Flange				
Fits #12 Wire through ¼" ATR	BW2	**4RJD3**	4Z34	**2KWU4**
14/2 to 12/2 Cable Support	BW4	**4RJD5**	KX	**2KWU2**
½" EMT Support	BW-8	**4RJD6**	K8	**2KWT7**
¾" EMT and ½" Rigid Conduit Support	BW-12	**4RJD1**	K12	**2KWT8**
1" EMT and ¾" Rigid Conduit Support	BW-16	**4RJD2**	K16	**2KWT9**
1¼" EMT and 1" Rigid Conduit Support	BW-20	**4RJD4**	K20	**2KWU1**
Cable Flange Clip Supports				
0.42 to 0.70" dia. Cable, Up to 5⁄32" Flange	BX9	**4RJE5**	449	**2KWX3**
0.444 to 0.560" dia. Cable, 1⁄16 to 5⁄32" Flange	BXS-1214	**4RJE8**	SC2D	**2KWX4**
0.444 to 0.560" dia. Cable, 5⁄32 to 9⁄32" Flange	BXM-1214	**4RJE6**	SC4D	**2KWX6**
0.444 to 0.718" dia. Cable, 5⁄32 to 9⁄32" Flange	BXM-1519	**4RJE7**	SC4E	**2KWX7**
0.500 to 0.718" dia. Cable, 1⁄16 to 5⁄32" Flange	BXS-1519	**4RJE9**	SC2E	**2KWX5**
Cable Clips and Support Brackets				
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Cable Clip	BX4M	**4RJD8**	MAC2	**2KWW1**
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Cable Clip for T-Bar Ceilings	BX4M-A6	**4RJD9**	MAC2ATA	**2KWW3**
2-Run Clip for MC/AC (14/2 to 10/3) or ⅜" FMC, Hammer On Cable Clip for Flanges ⅛" to ¼"	—	—	MAC224	**2KWW2**
Multiple Conduit Mounting Plate, Holds up to 3 Conduit Clips	—	—	SBT18	**6PFP7**
Flared Edges Prevent Damage to the Cable Jacket	—	—	CER4	**6PFP3**
Nonmetallic Cable Support Bracket, Secures Cable to Wood Studs	BRC1	**4RJC1**	CG4	**2KXC2**
Conduit and MC/AC Cable Support Bracket, For 1½" Deep Boxes, Attach Cable or ½ to ¾" EMT	BB38	**4RHJ8**	CS812	**2KXB9**
Conduit and MC/AC Cable Support Bracket, For 2⅛" Deep Boxes, Attach Cable or ½ to 1" EMT	BB38D	**4RHJ9**	CS812D	**2KXC1**
Nonmetallic Cable and FMC Support Bracket, Secures Up To ¾" FMC to Metal or Wood Studs	—	—	CJ6	**2KXC3**
Combination Outlet Box and Conduit Mounting Bracket; Mounts 4" Square Box and ½" to ¾" Conduit (Except No. 4RHT6 is 1")				
Combination Support Bar with Center Hole	BG812-S18	**4RHW2**	812MB18A	**2KWW9**
Combination Support Bar with ¼" Threaded Stud	BG812-S18S	**4RHW3**	812MB18S	**2KWW6**
Combination Support Bar with Bat Wing	BG812-S18-W6	**4RHW6**	812MB186	**2KWW5**
Combination Support Bar with Hammer On Beam Clamp for ⅛" to ¼" Flange	BG812-S18-U24	**4RHW4**	812MB1824	**2KWW7**
Combination Support Bar with Bat Wing	BG812-S18-W2	**4RHW5**	—	—
Combination Support Bar For 1" Conduit Using Plain Center Hole for Screw or Threaded Rod	BG16-S18	**4RHT6**	—	—
Outlet Box Mounting Brackets				
Telescoping Box Mounting Bracket, 11 to 18" Stud Spacing	BB2-16T	**4RHJ5**	TSGB16	**2KXA9**
Telescoping Box Mounting Bracket, 15½ to 26" Stud Spacing	BB2-24T	**4RHJ6**	—	—
Telescoping Box Mounting Bracket, 17 to 26" Stud Spacing	—	—	TSGB24	**2KXB1**
Single Side Box Mounting Bracket, 2½" and 3½" Stud Depth	BB4-23	**4RHK2**	—	—
Single Side Box Mounting Bracket, 2½", 3½", and 4" Stud Depth	BB4-4	**4RHK3**	—	—
Single Side Box Mounting Bracket, 2½", 3½", 5½", and 6" Stud Depth	BB4-6	**4RHK4**	—	—
Electrical Box, Supports 35 to 50 Pounds with a Single Brace	—	—	512HDFM35	**6PFN9**
Electrical Box, Supports 70 to 90 Pounds with a Double Brace	—	—	512HDFM70	**6PFP0**
Box Support, Prevents Box from Pushing Away From Drywall	—	—	766PM	**6PFP1**
Multiple Box Mounting Bracket, 16" Stud Spacing, Mounts up to 3 Outlet Boxes	BB8-16	**4RHK6**	RBS16	**2KXA7**
Multiple Box Mounting Bracket, 24" Stud Spacing, Mounts up to 4 Outlet Boxes	BB8-24	**4RHK7**	RBS24	**2KXA8**
Adjustable Far-Side Support Clip for Outlet Boxes, Suitable For 2½", 3½", and 4" Stud Depth	BB12	**4RHJ2**	—	—
Wiring Device Retainer, Adds Rigidity in Oversize Wall Openings	BB32	**4RHJ7**	RLC	**2KXD1**
T-Bar Ceiling Box Mounting Bracket for 4" or 4 11⁄16" Boxes, 1½" or 2⅛" Deep, 50-lb. Rating	BA50	**4RHH5**	512HD	**2KXK7**
T-Bar Ceiling Box Mounting Bracket, Adj. from 1½" to 8¾" Height, 25 lb. Rating	BA50A	**4RHH6**	512A	**2KXK6**
T-Bar Ceiling Preassembled Fan Mounting Kit, 70-lb. Rating	BA50F	**4RHH7**	—	—
Nail Protection Plate, Press On, Protects Electrical and Plumbing, For Metal or Wood Studs	—	—	304B2	**2KXA3**
Self Tapping Screw, Mounts Boxes or Brackets to Metal Studs, Low Profile Head, Pkg. of 100	—	—	SMS8	**2KXA4**
1 Gang, Mounting Plate for Class 2 Low Voltage Devices in ¼ to 1¼" Drywall	—	—	MPLS	**2KXD5**
Fixture Hanger, Side Mount, Supported from S-Hooks and Jack Chain, 50 lb. Limit	—	—	LFC	**2KXK1**
Fixture Hanger, Top Mount, Supported from S-Hooks and Jack Chain, 50 lb. Limit	—	—	LFC90	**2KXK2**
Electrical Box Hanger, Dual Height, Snaps Onto Ceiling T-Bar, Load Limit 20 Lbs., Pkg. of 10	—	—	512	**2KXK5**
Box Support, Ideal For Supporting and Positioning 4" Square or 4 11⁄16" Electrical Boxes	—	—	TSRBS1625	**6PFR2**
Bracket for 1 or 2 Gang Mud Rings, Mounts Plaster Rings for Low Volt App., 3.51" D	—	—	C23	**52JH49**
Bracket for 1 or 2 Gang Mud Rings, Mounts Plaster Rings for Low Volt App., 3.89" D	—	—	C4	**52JH51**

4RHF3

4RHZ4

4RHV2

4RHT4

4RHT5

4RHW7

4RJD1

4RJE6

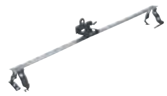
4RJC1

4RHJ8

4RHJ9

2KXC3

4RHW3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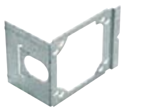
4RHW5

4RHJ5

4RHJ6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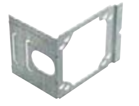
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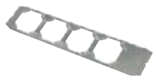
4RHK6


4RHK7

4RHJ2

4RHJ7

4RHH5

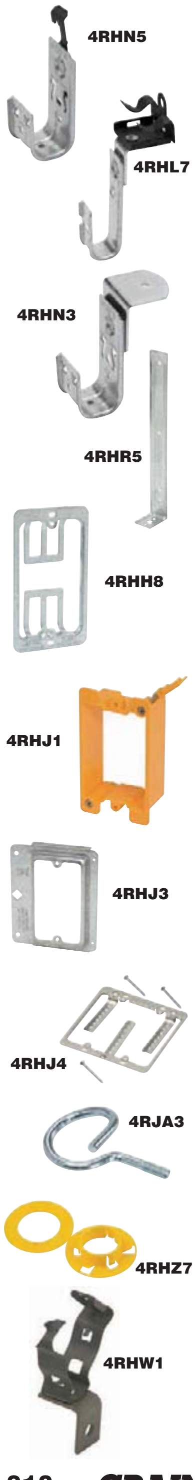
4RHH6

4RHH7

EATON B-Line series

nVent CADDY

Conduit and Cable Clamps, Hangers, and Clips



Description	B-LINE BY EATON Mfr. Model	B-LINE BY EATON Item No.	NVENT CADDY Mfr. Model	NVENT CADDY Item No.
KwikWire™—Adjustable Wire Rope System; Replaces Jack Chain or ATR for Support				
KwikWire™ Clamps For ⅛" or 3/16" Wire Rope	BKC200	**4RHY3**	—	—
KwikWire™ 1/16" Wire Rope, 500-ft. Spool, 75-lb. Rating When Used with BKC100 Clamps	BKW063	**4RHY8**	—	—
KwikWire™ 3/32" Wire Rope, 500-ft. Spool, 150-lb. Rating When Used with BKC100 or BKC150 Clamps	BKW094	**4RHY9**	—	—
KwikWire™ ⅛" Wire Rope, 500-ft. Spool, 250-lb. Rating When Used with BKC150 or BKC200 Clamps	BKW125	**4RHZ1**	—	—
KwikWire™ 3/16" Wire Rope, 250-ft. Spool, 640-lb. Rating When Used with BKC200 Clamps	BKW188	**4RHZ2**	—	—
KwikPak™ Dispenser Box - Includes 100 Clamps (No. 4RHY1) and 500-ft. Spool (No. 4RHY8), 75-lb. Rating	BKP10063	**4RHY5**	—	—
KwikPak™ Dispenser Box - Includes 100 Clamps (No. 4RHY2) and 500-ft. Spool (No. 4RHY9), 150-lb. Rating	BKP10094	**4RHY6**	—	—
KwikPak™ Dispenser Box - Includes 50 Clamps (No. 4RHY3) and 250-ft. Spool (No. 4RHZ1), 250-lb. Rating	BKP20125	**4RHY7**	—	—
KwikWire™ Wire Rope Cable Cutter	BKCC	**4RHY4**	—	—
Acoustical T-Bar Ceiling Fasteners				
T-Bar Support Clip, Allows for Independent Support of Fixtures, 65-lb. Rating, Fits 15/16" T-Bar, Stud Size ¼" x ⅝"	BA1	**4RHG7**	IDS	**2KXJ6**
T-Bar Support Clip, Allows for Independent Support of Fixtures, 65-lb. Rating, Fits 9/16" T-Bar, Stud Size ¼" x ⅝"	BA1-95	**4RHH1**	—	—
T-Bar Twist Fastener, Supports Electrical Boxes from 15/16" T-Bar with ¼" x ⅝" Stud, 50-lb. Rating, Black Finish	BA-4-16	**4RHH4**	4G16	**2KXJ9**
T-Bar Twist Fastener, Supports Electrical Boxes from 15/16" T-Bar with #8 x ⅝" Stud, 25-lb. Rating, White Finish	BA-2-16-W	**4RHH2**	4G8WH	**2KXJ8**
Drop Wire Clip for #12 to #8 Wire Prevents Sway of Dedicated Electrical Drop Wire	BA311	**4RHH3**	—	—
Conduit T-Bar Clip Attaches ½ and ¾" Conduit to T-Bar	BG-8-12-A6	**4RHV4**	—	—
Hurricane Clip Troffer Fastener Provides Positive Support for Troffers and Lay-In Light Fixtures	BA15	**4RHG9**	515	**2KXJ4**
Beam Clamps				
Hammer-On Beam Clamp, Provides ¼"-20 Thread to Hang Electrical Boxes, 75-lb. Rating, ⅛" to ¼" Flange	BU-2-4	**4RJC6**	M24	**2KWY7**
Hammer-On Beam Clamp, Provides ¼"-20 Thread to Hang Electrical Boxes, 5/16" to ½" Flange	BU-5-8	**4RJC8**	M58	**2KWY9**
Hammer-On Beam Clamp, Provides ¼" Stud to Hang Electrical Boxes, 100-lb. Rating, ⅛" to ¼" Flange	BU-2-4-S	**4RJC7**	M24S	**2KWY8**
Hammer-On Beam Clamp, Provides ¼" Stud to Hang Electrical Boxes, 5/16" to ½" Flange	BU-5-8-S	**4RJC9**	M58S	**2KWZ1**
Standard Beam Clamp, 100-lb. Rating, Up to ½" Flange	BC1	**4RHK8**	BC	**2KWY1**
Standard Beam Clamp, 100-lb. Rating, Up to ½" Flange with ½" and ¾" Conduit Clip	BG-8-12-C2	**4RHV7**	BC812M	**2KWY2**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., 1/16" to ⅛" Flange	BE-1-2	**4RHR6**	2H4	**2KWY3**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., ⅛" to ¼" Flange	BE-2-4	**4RHR7**	4H24	**2KWY4**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., 200-lb. Rating, 5/16" to ½" Flange	BE-5-8	**4RHR8**	4H58	**2KWY5**
Hammer-On Flange Beam Fastener, Provides ¼" Hole to Hang Chain, Drop Wire, S-Hooks, Etc., 200-lb. Rating, 9/16" to ¾" Flange	BE-9-12	**4RHR9**	4H912	**2KWY6**
Iron, ⅛ in to 5/16 in Jaw Opening, For Use With ⅜ in Threaded Rod, 250 lb Load Rating	—	—	CRLB37EG	**6PFR4**
Wall Mount Cable Hooks, 30-lb. Rating				
¾" Cable Hook	BCH12	**4RHK9**	CAT12	**2KXD7**
1 5/16" Cable Hook	BCH21	**4RHN1**	—	—
2" Cable Hook	BCH32	**4RHN6**	—	—
4" Cable Hook	BCH64	**4RHR1**	—	—
Cable Hook/Beam Clamp Assemblies, 30-lb. Rating				
¾" Hook, Up to ½" Flange Thickness	BCH12-C2	**4RHL2**	CAT12BCB	**2KXE4**
1 5/16" Hook, Up to ½" Flange Thickness	BCH21-C2	**4RHN2**	—	—
2" Hook, Up to ½" Flange Thickness	BCH32-C2	**4RHN9**	—	—
4" Hook, Up to ½" Flange Thickness	BCH64-C2	**4RHR2**	—	—
Cable Hook To Wire/Rod Assemblies, 30-lb. Rating				
¾" Hook, #12 Wire to ¼" Rod	BCH12-W2	**4RHL8**	CAT124Z34	**2KXE9**
1 5/16" Hook, #12 Wire to ¼" Rod	BCH21-W2	**4RHN5**	—	—
2" Hook, #12 Wire to ¼" Rod	BCH32-W2	**4RHP8**	—	—
Cable Hook/Hammer-On Beam Clamp Assemblies, 30-lb. Rating				
¾" Hook, ⅛" to ¼" Flange Thickness	BCH12-U-2-4	**4RHL7**	CAT1224	**2KXE8**
1 5/16" Hook, ⅛" to ¼" Flange Thickness	BCH21-U-2-4	**4RHN4**	—	—
2" Hook, ⅛" to ¼" Flange Thickness	BCH32-U-2-4	**4RHP6**	—	—
4" Hook, ⅛" to ¼" Flange Thickness	BCH64-U-2-4	**4RHR4**	—	—
Cable Hook/Angle Bracket Assemblies, 30-lb. Rating				
¾" Hook to ¼" Threaded Rod	BCH12-RB	**4RHL6**	CAT12AB	**2KXF2**
1 5/16" Hook to ¼" Threaded Rod	BCH21-RB	**4RHN3**	—	—
2" Hook to ¼" Threaded Rod	BCH32-RB	**4RHP5**	—	—
4" Hook to ¼" Threaded Rod	BCH64-RB	**4RHR3**	—	—
Angle Bracket Hanger, 180-lb. Rating, Supports up to 3 Cable Hooks per Side	BCH-HBA	**4RHR5**	CATHBA	**2KXE2**
Cable and Conduit Brackets				
Cable Bracket, Fits 0.430 to 0.560" MC/AC Cable up to 4 Runs, 50-lb. Rating	BRC5-1	**4RJC4**	MCS50	**2KWX8**
Cable Bracket, Fits 0.430 to 0.560" MC/AC Cable up to 9 Runs, 50-lb. Rating	—	—	MCS100	**2KWX9**
Staple-Lok Cable Support, Fits up to ½" OD Cable	—	—	CJ6S	**2KXC4**
Cable Bracket, Fits 14/2 to 10/3 AWG Cable, Supports Horizontal Runs Of MC/AC/FMC Cable Through Metal Studs	—	—	459	**2KXC7**
Low Voltage Cover Plate Mounting Brackets—Replace Electrical Box In Class 2, Low Voltage Outlets				
Single-Gang Old Work Support Bracket	BB10	**4RHH8**	MP1	**2KXD4**
Single-Gang Old Work Support Bracket, Plastic Design	BB10P	**4RHJ1**	MP1P	**2KXD2**
Single-Gang New Work Support Bracket	BB15	**4RHJ3**	MP1S	**2KXB2**
2-Gang Old Work Support Bracket with Screws	BB20L	**4RHJ4**	MPLS2	**2KXD6**
Bridle Rings				
¾" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-12-T	**4RJA2**	2BRT12	**2KXH4**
1¼" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-20-T	**4RJA4**	2BRT20	**2KXH5**
1¼" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-20-4T	**4RJA3**	4BRT20	**2KXH6**
2" Bridle Ring, #10-24 Thread, 50-lb. Rating	BR-32-T	**4RJA8**	2BRT32	**2KXH8**
2" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-32-4T	**4RJA6**	4BRT32	**2KXH9**
4" Bridle Ring, ¼" Thread, 50-lb. Rating	BR-64-4T	**4RJA9**	4BRT64	**2KXJ2**
1½" Bridle Ring, ¼" Lag Screw for Wood Beams, 50-lb. Rating	BR-24-4W	**4RJA5**	—	—
2" Bridle Ring, ¼" Lag Screw for Wood Beams, 50-lb. Rating	BR-32-4W	**4RJA7**	4BRT32WS	**2KXJ1**
Miscellaneous				
Flange Clip to Support Wire, Rod, S-Hooks, or Bolting Straps, 1/16" to ¼" Vertical Flange, 160-lb. Rating	BF3	**4RHT2**	VF14	**2KWZ2**
Flange Clip to Support Wire, Rod, S-Hooks, or Bolting Straps, 1/16" to ¼" Z-Purlin Flange, 160-lb. Rating	BF4	**4RHT3**	AF14	**2KWZ3**
Angle Bracket Attachment, Attaches #8 Wire or ¼" Plain Rod to Ceiling, 160-lb. Rating	BH1-H7	**4RHX4**	708AB	**2KWZ5**
Angle Bracket Attachment, Attaches ¼" ATR or Stud to Ceiling, 160-lb. Rating	BH4-H7	**4RHX6**	4TIB	**2KWZ4**
Rod Attachment with Hammer-On Beam Clamp, ⅛" to ¼" Flange, 160-lb. Rating, Attaches ¼" ATR or Stud	BH4-E-2-4	**4RHX5**	4TI24	**2KWX1**
Rod Attachment with Hammer-On Beam Clamp, ⅛" to ¼" Flange, 160-lb. Rating, Attaches ⅜" ATR or Stud	BH6-E-2-4	**4RHX7**	—	—
Metal Stud Grommet, Provides 360° Protection, Universal Design Fits All Factory Punched Metal Stud Holes	BM2	**4RHZ7**	ESG1	**2KXC6**
Conduit and Cable Antirattle Support for FMC, EMT or ENT Conduit Size up to 1" Dia.	—	—	781	**2KXC9**
Angle Bracket, 0.281 Dia. Holes, 25-lb. Rating	BH7	**4RHX8**	AB	**2KXL2**
Signal Reference Grid Wire Clamp, Attaches #8 to #4 AWG Stranded Wire to ¾ to 1" Round or Square Computer Floor Posts	BM5	**4RHZ9**	RGC	**2KXL3**
Cable to Drop Wire Hanger, Fits 0.375 to 0.706" MC/AC Cable, ⅜" FMC, or ½" EMT, 20-lb. Rating	—	—	PCS1	**2KWU3**
Conduit Angle Bracket, Supports Horizontal Runs of ½ or ¾" EMT/Rigid/ENT Conduit Through Metal Studs	BG-8-12-H7	**4RHW1**	—	—
S Hook, #11 Gauge, 29-lb. Rating; For Support of Lighting, Speakers and Other Fixtures	BH10	**4RHX1**	771	**2KXK4**
Jack Chain, #12 Single, 100-ft., 29-lb. Rating; For Support of Lighting, Speakers and Other Fixtures	BH9	**5GAR0**	—	—
Fixture Hanger, Side Mount, For Use With: Jack Chain, S-Hooks, and Fluorescent Fixtures; 29-lb. Rating	BH15	**4RHX2**	—	—
Fixture Hanger, Top Mount, For Use With: Jack Chain, S-Hooks, and Fluorescent Fixtures; 29-lb. Rating	BH16	**4RHX3**	—	—

One-Hole Conduit Strap Clamps

Two-Hole Conduit Strap Clamps

Conduit Clamps

Screw-On Conduit & Cable Hangers

Split-Ring Conduit Hanger Clamps

Right Angle Conduit-to-Beam Clamps

Nail Straps

Conduit Support

RACO A Division of Hubbell Incorporated (Delaware) | Calbrite Stainless Steel Conduit Systems

Compatible Conduit Type	Material	Brand	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.	2½" Item No.	3" Item No.	4" Item No.
One-Hole Conduit & Pipe Strap Clamps											
IMC, RMC	Steel	Raco	206F24	206F25	206F26	206F27	206F28	206F30	—	—	—
EMT	Steel	Raco	206F89	206F90	206F91	206F92	206F93	206F94	—	—	—
IMC	Stainless Steel	Calbrite	36HX46	36HX47	36HX48	36HX49	36HX50	36HX51	36HX52	36HX53	36HX55
EMT	Stainless Steel	Calbrite	36HX56	36HX57	36HX58	36HX59	36HX60	36HX61	—	—	—
Two-Hole Conduit & Pipe Strap Clamps											
EMT	Steel	Raco	206F95	206F96	206F97	206F98	206F99	206G01	—	—	—
IMC, RMC	Steel	Raco	206G25	206G26	206G27	206G28	206G29	206G30	—	—	—
IMC	Stainless Steel	Calbrite	36HX62	36HX63	36HX64	36HX65	36HX66	36HX67	36HX68	36HX69	36HX70
Conduit & Pipe Clamps											
IMC, Rigid, RMC	Iron	Raco	206F14	206F15	206F16	206F17	206C37	206F19	206C53	206F21	206F23
Screw-On Conduit & Cable Hangers											
EMT, IMC, RMC	Steel	Raco	55YF19	55YF20	55YF21	—	55YF23	55YF24	—	—	—
IMC	Stainless Steel	Calbrite	36HX14	36HX15	36HX16	36HX17	36HX18	36HX19	36HX20	36HX21	36HX22
EMT, ENT	Stainless Steel	Calbrite	36HX23	36HX24	36HX25	36HX26	36HX27	36HX28	—	—	—
Split-Ring Conduit Hanger Clamps											
IMC, RMC	Stainless Steel	Calbrite	36HX29	36HX30	36HX31	36HX32	36HX33	36HX34	36HX35	36HX36	36HX37
Right Angle Conduit-to-Beam Clamps											
EMT, IMC, PVC, RMC	316 Stainless Steel	Calbrite	36HW97	36HW98	36HW99	36HX01	36HX02	36HX03	36HX04	36HX05	36HX06
Nail Straps											
EMT	Steel	Raco	206G34	206G35	206G36	—	—	—	—	—	—

Beam Clamps

Superstrut | Calbrite Stainless Steel Conduit Systems

Beam clamps suspend threaded rod from a metal beam, steel girder, or strut channel. The rod can then connect to conduit or a pipe hanger to support conduit runs.

Thread Size	Load Capacity	Jaw Opening	Material	Brand	Item No.
¼"-20	250 lb	15/16 in	Iron	Superstrut	20LA58
5/16"-18	500 lb	⅞ in	Iron	Superstrut	20LA59
5/16"-18	150 lb	1 5/32 in	316 Stainless Steel	Calbrite	36HX91
⅜"-16	750 lb	1 in	Iron	Superstrut	20LA60
½"-13	750 lb	1 ½ in	316 Stainless Steel	Calbrite	36HX92
⅝"-11	1,100 lb	1 37/64 in	316 Stainless Steel	Calbrite	36HX93

20LA60

Conduit Body Tee—Type T
4FYL5

Conduit Body 90°—Type LB
4FYN5

Conduit Body Straight—Type C
4FYP5

Conduit Body—Type E
4FYR5

Expansion Coupling
4FXZ3

Female Adapter
4FYA3

CANTEX

PVC Conduit and Fittings

Rust- and corrosion-resistant and easy to install. Belled end eliminates the need for special coupling. May be used in underground applications. Schedule 40 can be used in walls, floors, and ceilings under NEC Article 352. Schedule 80 is for above-ground and entrance applications. Schedule 40 and Schedule 80 conform to UL 651; Fed. and Mil. Spec. compliant.

Standard Coupling
4FXY3

Schedule 80 Elbow
4FYH9

Schedule 40 Elbow
4FYE3

Male Adapter
4FYC3

Box Adapter
4FYD3

Insulated Bushing
4FYK8

Entrance Service Cap
4FYU9

Schedule 80 Conduit
4EUC5

Schedule 40 Conduit
4EUA5

Reducing Bushing
4FYJ9

Description	½ in Item No.	¾ in Item No.	1 in Item No.	1 ¼ in Item No.	1 ½ in Item No.	2 in Item No.	2 ½ in Item No.	3 in Item No.	4 in Item No.
Conduit Outlet Body									
Type LL	4WMF1	4WMF2	4WMF3	4WMF4	—	—	—	—	—
Type LR	4WMF5	4WMF6	4WMF7	4WMF8	—	—	—	—	—
Type T	4FYL5	4FYL6	4FYL7	4FYL8	4FYL9	4FYN1	4FYN2	4FYN3	4FYN4
Type LB	4FYN5	4FYN6	4FYN7	4FYN8	4FYN9	4FYP1	4FYP2	4FYP3	4FYP4
Type C	4FYP5	4FYP6	4FYP7	4FYP8	4FYP9	4FYR1	4FYR2	4FYR3	4FYR4
Type E	4FYR5	4FYR6	4FYR7	4FYR8	4FYR9	4FYT1	4FYT2	4FYT3	4FYT4
Conduit Straps									
2-Hole	4FYT5	4FYT6	4FYT7	4FYT8	4FYT9	4FYU1	4FYU2	4FYU3	—
Couplings and Adapters, For Use With Schedule 40 PVC Conduit									
Conduit Coupling	—	4FXY4	4FXY5	4FXY6	4FXY7	4FXY8	4FXY9	4FXZ1	4FXZ2
Expansion Conduit Coupling	4FXZ3	4FXZ4	4FXZ5	4FXZ6	4FXZ7	4FXZ8	4FXZ9	4FYA1	4FYA2
Threaded Conduit Adapter	4FYA3	4FYA4	4FYC5	4FYA6	4FYC7	4FYA8	4FYC9	4FYC1	4FYD2
Threaded Conduit Adapter	4FYC3	4FYC4	4FYA5	4FYC6	4FYA7	4FYC8	4FYA9	—	4FYC2
Threaded Conduit Adapter	—	—	—	—	—	—	—	4FYD1	—
Conduit Adapter	4FYD3	4FYD4	4FYD5	4FYD6	4FYD7	4FYD8	4FYD9	4FYE1	4FYE2
Bushing for PVC Conduit	4FYK8	4FYK9	4FYL1	4FYL2	4FYL3	4FYL4	—	—	—
Service Entrance Caps for PVC Conduit	—	—	—	—	4FYU9	4FYV1	4FYV2	4FYV3	—
Offset Threaded Conduit Adapter	—	—	—	4FYV4	—	4FYV5	—	—	—
Couplings and Adapters, For Use With Schedule 40 PVC Conduit, Schedule 80 PVC Conduit									
Conduit Coupling	4FXY3	—	—	—	—	—	—	—	—
Elbow, For Use With Schedule 40 PVC Conduit									
Conduit Elbow, 90 Degrees	4FYE3	4FYE4	4FYE5	4FYE6	4FYE7	4FYE8	4FYG4	4FYF1	4FYF2
Conduit Elbow, 90 Degrees	—	—	—	—	—	4FYG3	4FYE9	4FYG8	—
Conduit Elbow, 45 Degrees	4FYF3	4FYF4	4FYF5	4FYF6	4FYF7	4FYF8	4FYF9	4FYG1	4FYG2
Conduit Elbow, 90 Degrees	—	—	—	—	—	4FYG6	4FYG7	4FYG5	—
Elbow, For Use With Schedule 80 PVC Conduit									
Conduit Elbow, 90 Degrees	4FYG9	4FYH1	4FYH2	4FYH3	4FYH4	4FYH5	4FYH6	4FYH7	4FYH8
Conduit Elbow, 45 Degrees	4FYH9	4FYJ1	4FYJ2	4FYJ3	4FYJ4	4FYJ5	4FYJ6	4FYJ7	4FYJ8
Pull Elbow									
Type LB	4FYV8	4FYV9	—	—	—	—	—	—	—
PVC Conduit									
10 ft, Schedule 80	4EUC5	4EUC6	4EUC7	4EUC8	4EUC9	4EUD1	4EUD2	4EUD3	4EUD4
10 ft, Schedule 40	4EUA5	4EUA6	4EUA7	4EUA8	4EUA9	4EUC1	4EUC2	4EUC3	4EUC4

Reducer, For Use With Schedule 40 PVC Conduit			¾ in" x ½ in	1 in" x ¾ in	1 ¼ in" x 1 in	1 ½ in" x 1 ¼ in	2 in" x 1 ½ in	2 ½ in" x 2 in	3 in" x 2 in	4 in" x 3 in
Reducing Bushings	—	—	4FYJ9	4FYK1	4FYK2	4FYK3	4FYK4	4FYK5	4FYK6	4FYK7

Weatherproof Electrical Box	½ in	¾ in	1 in
1-Gang, FSE	4FYW1	4FYW2	4FYW3
1-Gang, FSC	4FYW7	4FYW8	4FYW9
1-Gang, FSS	4FYX4	4FYX5	4FYX6
1-Gang, FSCC	4FYY1	4FYY2	4FYY3
2-Gang, FSE	4FYW4	4FYW5	4FYW6
2-Gang, FSC	4FYX1	4FYX2	4FYX3
2-Gang, FSS	4FYX7	4FYX8	4FYX9
2-Gang, FSCC	4FYY4	4FYY5	4FYY6
Weatherproof Junction Box			
4 in Round Junction Box	—	4FYY7	—

FSE
4FYW1

4" Round
4FYY7

Bar Hanger
4FZC9

4" Square Shallow Box w/Nails
4FZC1

2-Gang
4FZA8

Ceiling Box w/ Nails & Ground
4FZC6

Description	Item No.	
Sheathed Cable Boxes		
1 Gang, Red Fire Alarm w/Nails, 20 cu. in.	4FZE3	*
2 Gang, w/Nails, 32 cu. in.	4FZA4	
3 Gang, w/Nails, 44 cu. in.	4FZA5	
4 Gang, w/Nails, 55 cu. in.	4FZA6	
2 Gang, w/Nails and Bracket, 48 cu. in.	4FZA8	
3 Gang, w/Nails and Bracket, 74 cu. in.	4FZA9	
Surface-Mounted Junction Boxes		
4L x 4W x 4H"	4FYU5	
6L x 6W x 4H"	4FYU6	
8L x 8W x 4H"	4FYU7	
12L x 12W x 6H"	4FYU8	

*** Polycarbonate.***

Description	Item No.	
Specialty Boxes		
Ceiling Box, w/Nails, 18 cu. in.	4FZC5	*
Ceiling Box w/Nails and Ground, 18 cu. in.	4FZC6	*
Ceiling Box, w/Nails, 20 cu. in.	4FZC7	*
Ceiling Box w/Nails and Ground, 20 cu. in.	4FZC8	*
Old Work, 18 cu. in.	4FZD5	*
Old Work w/Ground, 18 cu. in.	4FZD6	*
Bar Hanger, 20 cu. in.	4FZC9	*
Bar Hanger w/Ground, 20 cu. in.	4FZD1	*
3½ Round Fire Alarm (Red), 20 cu. in.	4FZE2	*
1 Gang w/Bracket, 20 cu. in.	4FZA7	
4 Sq. Shallow Box w/Nails, 18 cu. in.	4FZC1	
4 Sq. Shallow Box w/Nails, 32 cu. in.	4FZC2	
Flanged Shallow Box, Old Work, 8 cu. in.	4FZC3	
Bracketed Shallow Box, 8 cu. in.	4FZC4	
1 Gang Old Work, 14 cu. in.	4FZD2	
1 Gang Old Work, 21 cu. in.	4FZD3	
2 Gang Old Work, 25 cu. in.	4FZD4	
Floor Box Base, Round w/4 Hubs	4FYV6	

Description	Item No.
Standard Covers	
2 Gang, Blank	4FZD8
2 Gang, 1 Device Plaster Ring, ½" Raised	4FZD9
2 Gang, 2 Device Plaster Ring, ½" Raised	4FZE1
4½" Round, Blank	4FZD7
Floor Box Cover, Duplex, Bronze	4FYV7
Weatherproof Covers	
1 Gang, Blank	4FYY8
1 Gang, GFCI Receptacle	4FYZ4
1 Gang, Duplex Receptacle	4FYZ3
1 Gang, Switch	4FYZ5
1 Gang, Switch w/Lever	4WMF9
2 Gang, Blank	4FYY9
2 Gang, GFCI and Toggle	4FYZ1
2 Gang, Duplex and Toggle Switch	4FYZ2
2 Gang, Double Duplex Receptacle	4FYZ6
2 Gang, Switch w/Levers	4WMG1
Primer and Cement	
1 Pt. PVC Conduit Primer and Cleaner	4FYZ8
1 Pt. PVC Conduit Cement (Low VOC)	4FYZ7

Liquid-Tight Flexible Conduit

Built for a variety of applications ranging from computer room floors to high-temperature areas.

SERIES 160

Built with a circular cross section with a smooth, corrugated flame-resistant polyvinyl chloride (PVC) inner surface and integral reinforcing member within the conduit wall. Used to help protect insulated wire in assemblies or consoles of electrical apparatus.

SERIES 6000

Designed for use in wet, dry, or oily locations as a flame-resistant, nonmetallic raceway for power, control, and communications cables.

SERIES 6100

Designed for use in specific applications where Underwriters Laboratories (UL) or other agency approvals are not required, but flexibility is.

SERIES 6200

Designed for use in wet, dry, or oily locations as a flame-resistant, galvanized steel core raceway for power, control, and communications cables.

SERIES 6400

Offered in Data Comm blue and designed for use as a raceway for power, control, and communication cables.

SERIES 6500

Designed for use in wet, dry, or oily locations as a flame-resistant, nonmetallic raceway for power, control, and communications cables where repetitive motion and constant flexing is required. Ideal for applications where abrasion and physical abuse may occur.

SERIES 6750

Designed for use where limiting smoke and toxic materials of combustion are important considerations. They can also be used outdoors at -40°F and is sunlight-resistant.

SERIES 6800

Designed for use where operation at a high temperature is required. Feature Extreme Temperature jacket that is halogen-free.

SERIES 6900

UL Listed product is designed for use in raceway areas exposed to extreme temperatures.

SERIES SZ

Designed for use as a raceway for NSF® 169 Component Special Purpose Food Equipment and Devices, meat packing, restaurants, food processing, poultry packing, and pharmaceutical facilities.

Series 160
53CJ95

Series 6000
4JC63

Flexible Conduit Nominal Length	Flexible Conduit Color	⅜ in Item No.	½ in Item No.	¾ in Item No.	1 in Item No.	1 ½ in Item No.	1 ¼ in Item No.	2 in Item No.	2 ½ in Item No.	3 in Item No.	4 in Item No.
Series 160, Rigid PVC Core, 0° to 140°F, Flame Retardant PVC Jacket											
100 ft	Black	53CJ98	53CJ96	53CJ97	53CJ95	—	—	—	—	—	—
Series 6000, Rigid PVC Core, -2° to 176°F, Flame Retardant PVC Jacket											
50 ft	Gray	4JC62	4JC63	4JC64	4JC65	3FLH5	—	3FLH6	—	—	—
100 ft	Gray	1YPF7	1YPF8	1YPF9	1YPG1	—	3FLH4	—	—	—	—
Series 6100, Hot Dipped Galvanized Steel Core, -22° to 165°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FLC5	—	3FLC9	3FLD2	—	—	—	—	—	—
50 ft	Gray	4JC58	4JC59	4JC60	4JC61	3FLD4	—	3FLD5	—	—	—
100 ft	Gray	5YH68	5YH69	5YH70	5YH71	—	—	16R059	—	—	—
150 ft	Gray	—	—	—	—	16R058	—	—	—	—	—
400 ft	Gray	—	—	—	3FLD3	—	—	—	—	—	—
500 ft	Gray	3FLC6	3FLC8	3FLD1	—	—	—	—	—	—	—
Series 6100, Hot Dipped Galvanized Steel Core, -4° to 140°F, Flame Retardant PVC Jacket											
25 ft	Gray	—	3FLC7	—	—	—	—	—	—	—	—
Series 6200, Hot Dipped Galvanized Steel Core, -30° to 176°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FKT7	3FKT9	3FKV2	—	—	—	—	3FKV8	3FKV9	3FKW1
25 ft	Red	—	16R020	16R023	—	—	—	—	—	—	—
25 ft	Green	—	16R029	16R032	—	—	—	—	—	—	—
25 ft	Yellow	—	16R038	16R041	—	—	—	—	—	—	—
25 ft	Orange	—	16R047	16R050	—	—	—	—	—	—	—
50 ft	Red	—	16R021	16R024	—	—	—	—	—	—	—
50 ft	Green	—	16R030	16R033	—	—	—	—	—	—	—
50 ft	Yellow	—	16R039	16R042	—	—	—	—	—	—	—
50 ft	Orange	—	16R048	16R051	—	—	—	—	—	—	—
50 ft	Gray	1YPF5	2W279	2W280	—	3FKV6	—	3FKV7	—	—	—
100 ft	Red	—	16R022	16R025	—	—	—	—	—	—	—
100 ft	Green	—	16R031	16R034	—	—	—	—	—	—	—
100 ft	Yellow	—	16R040	16R043	—	—	—	—	—	—	—
100 ft	Orange	—	16R049	16R052	—	—	—	—	—	—	—
100 ft	Gray	1YPF6	5YH56	5YH57	—	—	—	16R057	—	—	—
150 ft	Gray	—	—	—	—	16R056	—	—	—	—	—
500 ft	Gray	3FKT8	3FKV1	3FKV3	—	—	—	—	—	—	—
Series 6400, Hot Dipped Galvanized Steel Core, -30° to 176°F, Flame Retardant PVC Jacket											
25 ft	Blue	3FKW2	3FKW6	3FKX1	3FKX5	—	—	—	3FKY2	3FKY3	3FKY4
50 ft	Blue	3FKW3	3FKW7	3FKX2	3FKX6	3FKX9	—	3FKY1	—	—	—
100 ft	Blue	3FKW4	3FKW8	3FKX3	3FKX7	—	—	—	—	—	—
400 ft	Blue	—	—	—	3FKX8	—	—	—	—	—	—
500 ft	Blue	3FKW5	3FKW9	3FKX4	—	—	—	—	—	—	—
Series 6500, Dual Layer of PVC with Nylon Braid Core, -2° to 176°F, Flame Retardant PVC Jacket											
50 ft	Orange	—	—	—	3FLL5	1YPG7	—	1YPG8	—	—	—
100 ft	Orange	—	3FLL3	3FLL4	1YPG5	—	1YPG6	—	—	—	—
Series 6750, Hot Dipped Galvanized Steel Core, -40° to 176°F, Flame Retardant, Low Smoke and Toxicity Generation Thermoplastic Polyurethane Jacket											
25 ft	Black	—	16P977	—	—	—	—	—	—	—	—
Series 6750, Hot Dipped Galvanized Steel Core, -40° to 176°F, Flame Retardant Jacket											
25 ft	Black	—	—	16P980	16P983	—	—	—	—	—	—
50 ft	Black	—	16P978	16P981	16P984	—	16P986	—	—	—	—
100 ft	Black	—	16P979	16P982	16P985	—	—	—	—	—	—
Series 6800, Hot Dipped Galvanized Steel Core, -76° to 302°F, Special Thermoplastic Elastomer Jacket											
25 ft	Black	16R005	16R008	16R011	16R014	—	—	—	—	—	—
50 ft	Black	16R006	16R009	16R012	16R015	16R018	16R017	16R019	—	—	—
100 ft	Black	16R007	16R010	16R013	16R016	—	—	—	—	—	—
Series 6900, Hot Dipped Galvanized Steel Core, -67° to 221°F, Flame Retardant PVC Jacket											
25 ft	Gray	3FKY5	3FKY9	3FKZ4	3FND5	—	—	—	3FLA2	3FLA3	3FKZ8
50 ft	Gray	3FKY6	3FKZ1	3FND3	3FND6	3FKZ9	—	3FLA1	—	—	—
100 ft	Gray	3FKY7	3FKZ2	3FKZ5	3FKZ6	—	—	—	—	—	—
400 ft	Gray	—	—	—	3FKZ7	—	—	—	—	—	—
500 ft	Gray	3FKY8	3FKZ3	3FND4	—	—	—	—	—	—	—
Series SZ, Corrosion Resistant Plated Steel Core, -30° to 176°F, FDA Splash Zone Approved PVC Jacket											
50 ft	White	6XWU3	6XWU6	6XWU9	6XWX2	6XWX6	6XWX5	6XWX7	—	—	—
100 ft	White	6XWU4	6XWU7	6XWX0	6XWX3	—	—	—	—	—	—
400 ft	White	—	—	—	6XWX4	—	—	—	—	—	—
500 ft	White	6XWU5	6XWU8	6XWX1	—	—	—	—	—	—	—

KILLARK
Another Hubbell Electrical Products Brand

Appleton Group

Right Angle
2LKU9

Parallel
2LKW9

6RUM5

6RUK9

Pulling Elbows, Conduit Clamps and Outlet Boxes

Hazardous location items are Class I, Div. 1 and 2, Groups C (capped elbows only), and D. Class II, Div. 1 and 2, Groups E, F, G. Class III. UL Recognized.

Note: 3" and 3½" conduit clamps are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "killark conduit clamps". Other sizes are available on Grainger.com®.

Description	½" Item No.	¾" Item No.	1" Item No.	1 ¼" Item No.	1 ½" Item No.	2" Item No.	1¼" Item No.	1½" Item No.
Hubbell Killark								
Right Angle Conduit Clamp	2LKU9	2LKV1	2LKV2	2LKV3	2LKV4	2LKV5	—	—
Parallel Conduit Clamp	2LKW9	2LKX1	2LKX2	2LKX3	2LKX4	2LKX5	—	—
Appleton Electric								
Pulling Elbow ELBD	6RUK5	6RUK7	6RUH9	—	—	6RUJ5	6RUJ1	6RUJ3
Capped Elbow - Haz Loc ELBY	6RUL3	6RUL5	6RUK9	—	—	—	6RUL1	—
Conduit Outlet Body T	6RUM5	6RUM6	—	—	—	—	—	—
Conduit Outlet Body C	6RUL7	6RUL8	—	—	—	—	—	—
Conduit Outlet Body LB	6RUL9	6RUM0	—	—	—	—	—	—
Conduit Outlet Body LL	6RUM1	—	—	—	—	—	—	—
Conduit Outlet Body LR	6RUM3	6RUM4	—	—	—	—	—	—
Conduit Outlet Body TB	6RUM7	6RUM8	—	—	—	—	—	—

Appleton Group

10R078

KILLARK
Another Hubbell Electrical Products Brand

2MY90

Hazardous Location Flexible Couplings

- Bronze with Brass Core

Class I, Div. 1 and 2, Groups A, B, C, D; Class II, Div. 1 and 2, Groups E, F, G. Class III.

Note: other sizes and lengths are available on Grainger.com®.

Flex Length	Brand	Mfr. Model	½" Item No.	¾" Item No.	1" Item No.
1 Removable Union, 1 Removable Male Nipple					
6 in	Appleton Electric	EXLK	10R088	10R102	10R114
12 in	Appleton Electric	EXLK	10R078	10R091	10R105
12 in	Hubbell Killark	ECFUF	2MY90	2MY93	—
18 in	Appleton Electric	EXLK	10R080	10R093	10R107
18 in	Hubbell Killark	ECFUF	2MY91	2MY94	—
24 in	Hubbell Killark	ECFUF	2MY92	2MY95	—
36 in	Appleton Electric	EXLK	10R086	10R099	10R113
2 Removable Male Nipples					
18 in	Appleton Electric	EXGJH	10P996	10R010	10R023

6D074

6D090

6D097

6D267

Flexible PVC Conduit and Fittings

Fused PVC materials form a rugged and tough, but flexible, conduit with no metal core. Nonconductive, lightweight, nonmetallic materials provide corrosion resistance. Conduit cuts easily and cleanly and resists crushing and crimping. Suitable for all standard-duty applications. Liquid-tight for inside or outside use. UL Listed (PolyTuff® II is UL Recognized), CSA Certified, NEC Article 351-B.

Description	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Gray PolyTuff® I Conduit, Type B, Nonmetallic, Flexible							
Conduit, 100 ft. ⅜" to 1¼", 50 ft. 1½" and 2"	6D074	6D075	6D076	6D077	2AXJ5	2AXJ6	2AXJ7
Straight Connectors	6D089	6D090	6D091	6D092	21VF90	21VF92	21VF94
90° Connectors	2DPG3	2DPG5	2DPG7	2DPG9	2DPH2	—	—
Swivellok™ Fittings, Straight to 90°	3JC15	6D097	6D098	6D099	—	—	—
Flexible Conduit Kits, Includes 6-Ft. Conduit and 2 Swivel Connectors	—	6D267	6D268	—	—	—	—
Black PolyTuff® II Conduit, Nonmetallic, Extra Flexible							
Conduit, 100 ft. ⅜" to 1¼", 50 ft. 1½" and 2"	6D082	6D083	6D084	6D085	2AXJ2	2AXJ3	2AXJ4
Straight Connectors	6D101	6D102	6D103	6D104	21VF89	21VF91	21VF93
90° Connectors	2DPG2	2DPG4	2DPG6	2DPG8	2DPH1	—	—
Swivellok™ Fittings, Straight to 90°	3JC16	6D109	6D110	6D111	—	—	—

4NPF2

3LL22

3LL25

6C113

3LK74

3LL04

52AU69

Liquid-Tight Conduit Fittings

Connection Orientation	Material	Insulated	External Grounding Lug	Brand	⅜ in Item No.	½ in Item No.	¾ in Item No.	1 in Item No.	1 ¼ in Item No.	1 ½ in Item No.	2 in Item No.	3 in Item No.	4 in Item No.
45° Hazardous Location Liquid-Tight Conduit Fittings													
45°	Iron, Steel	No	No	Raco	4A234	4A235	4A236	4A237	3LK80	3LK81	3LK82	—	—
45°	Iron, Steel	Yes	No	Raco	3LL14	3LL15	3LL16	3LL17	3LL18	3LL19	3LL20	—	—
45°	Thermoplastic	Yes	No	Thomas & Betts	4NPF2	—	—	—	—	4NPF7	4NPF8	—	—
90° Hazardous Location Liquid-Tight Conduit Fittings													
90°	Iron, Steel	No	No	Raco	6X921	6X773	6X774	6X775	3LK83	3LK84	3LK85	52AX36	—
90°	Iron, Steel	No	No	Thomas & Betts	—	—	—	—	2DDR6	—	—	—	—
90°	Iron, Steel	Yes	No	Raco	3LL21	3LL22	3LL24	3LL26	3LL28	3LL29	3LL31	3LL34	3LL35
90°	Thermoplastic	Yes	No	Thomas & Betts	—	—	—	—	4NPG4	4NPG5	4NPG6	—	—
Adjustable Angle Plastic Liquid-Tight Conduit Fittings													
0° to 90°	Nylon	No	No	Raco	52AX99	52AW94	52AW99	52AX19	—	—	—	—	—
Grounding Lug Hazardous Location Liquid-Tight Conduit Fittings													
90°	Iron, Steel	Yes	Yes	Raco	52AX37	3LL23	3LL25	3LL27	52AX38	52AX39	—	—	—
Straight	Iron, Steel	Yes	Yes	Raco	52AX30	4JC45	4JC46	52AX32	—	4JC47	4JC48	—	—
Straight	Steel	Yes	Yes	Thomas & Betts	—	—	—	—	2DDV4	—	—	—	—
Liquid-Tight Conduit Fittings with Strain Relief													
45°	Steel	Yes	No	Hubbell	—	6D209	6D210	—	2DDW5	—	2DDW7	—	—
90°	Steel	No	No	Hubbell	—	—	6D225	6D226	6D227	6D228	—	—	—
90°	Steel	Yes	No	Hubbell	6D202	6D203	6D204	6D205	6D206	2DDV9	—	2DDW2	—
Straight	Steel	No	No	Hubbell	—	5JML5	5JML6	5JML7	—	6D223	—	—	—
Straight	Steel	No	No	Hubbell	—	6D219	6D220	—	—	—	—	—	—
Straight	Steel	Yes	No	Hubbell	6C113	6C114	6C115	6C116	6D196	6D197	6D198	2DDV7	—
Straight	Steel	Yes	No	Hubbell	—	—	—	—	—	—	—	2DDV8	—
Plastic Liquid-Tight Conduit Fittings													
Straight	Nylon	No	No	Raco	52AX05	52AW91	—	52AX08	—	52AY01	52AX16	—	—
Straight	Nylon	No	No	Hubbell	—	49YK27	49YK28	—	—	—	—	—	—
Straight	Nylon	Yes	No	Bell	—	—	35U148	—	—	—	—	—	—
Straight Hazardous Location Liquid-Tight Conduit Fittings													
Straight	Aluminum	No	No	Appleton Electric	—	—	—	—	—	34D548	34D550	—	—
Straight	Aluminum	No	No	Hubbell Killark	—	49ZX76	49ZX78	49ZX77	49ZX79	—	—	—	—
Straight	Iron, Steel	No	No	Raco	6X920	6X770	6X771	6X772	3LK74	3LK75	3LK76	3LK78	52AX40
Straight	Iron, Steel	No	No	Thomas & Betts	—	—	—	—	—	—	—	2DDP2	—
Straight	Iron, Steel	Yes	No	Raco	3LL04	3LL05	3LL06	3LL07	3LL08	3LL09	3LL10	3LL12	3LL13
Straight	Nickel Plated Brass	No	No	Appleton Electric	—	10F982	10G019	34D552	34D553	34D554	34D555	—	—
Straight	Nickel Plated Brass	No	No	Appleton Electric	—	—	34D551	—	—	—	34D556	—	—
Straight	Steel	Yes	No	Thomas & Betts	—	—	—	—	—	—	—	2FLE4	2FLE5
Straight	Thermoplastic	Yes	No	Thomas & Betts	—	—	—	—	4NPE8	—	—	—	—
Tight Sealing Washers													
—	Stainless Steel/ Santoprene	—	—	Thomas & Betts	2DDT2	—	—	—	—	—	—	—	—
—	Steel/Neoprene	—	—	Raco	—	52AU69	52AU88	52AV11	52AV46	52AV59	52AV58	—	—

Description	Dia.	Material	Conductor Size	Mfr. Model	Item No.
Pointed End Ground Rods					
8 ft, 10 mil Copper Coating, 30-yr Service Life	½ in	Copper Bonded Steel	—	611380	4NHF8
4 ft, 10 mil Copper Coating, 30-yr Service Life	⅝ in	Copper Bonded Steel	—	615840	2KXL7
8 ft, 10 mil Copper Coating, 30-yr Service Life	⅝ in	Copper Bonded Steel	—	615880	2KXL8
10 ft, 10 mil Copper Coating, 30-yr Service Life	⅝ in	Copper Bonded Steel	—	615800	2KXL6
10 ft, 10 mil Copper Coating, 30-yr Service Life	¾ in	Copper Bonded Steel	—	613400	2KXL5
8 ft, 15-yr Service Life	⅝ in	Galvanized Steel	—	815880	2KXL9
Ground Rod Kit, (2) ⅝ in x 4 ft Ground Rods, ⅝ in Clamp, Drive Sleeve, Ground Rod Connector	⅝ in	Copper Bonded Steel	—	CGE5CP	2KXN1
Grounding Accessories					
Grounding Connector, Suitable for Direct Burial Applications	½" a ⅝"	Bronze	8 Solid to 2 Stranded	CP58	2KXN2
Grounding Connector, Suitable for Direct Burial Applications	¾"	Bronze	8 Solid to 2 Stranded	CP34	2KXN3
Grounding Connector	⅝"	Copper	6 Solid	EHL58C1K	2KXN4
Grounding Connector	⅝"	Copper	6 Solid	EHL58G1K	2KXN5
Ground Rod Coupling, Threadless Compression	—	Silicone Bronze	#8 SOL to #2 STR	CC58	2KXN6
Drive Sleeve, Slides on Top of Ground Rod to Prevent Mushrooming	—	Copper Coated Steel	#8 SOL to #2 STR	EDS58	2CNJ5
Grounding Connector, Copper Screw for Use In Direct Burial Applications	—	Silicone Bronze	10 Solid to 2 Stranded	CWP1JU	2CNJ2
Grounding Connector	—	Zinc	10 Solid to 6 Solid	ZWP1J	2CNJ4
Grounding Connector, Copper Screw for Use In Direct Burial Applications	—	Silicone Bronze	10 Solid to 2 Stranded	CWP2JU	2CNJ3
Grounding Connector, Parallel Burial, Parallel Burial	½" to 1"	Bronze Alloy	8 Solid to 2 Stranded	EK16	2CNJ6
Grounding Connector, Perpendicular Burial, Perpendicular Burial	½" to 1"	Bronze Alloy	8 Solid to 2 Stranded	EK17	2CNJ7

4NHF8

2CNJ4

ERICO

Ground Rods and Accessories

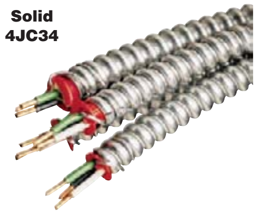
Pointed-end ground rod electrodes dissipate electric current directly into the earth. Meet NEMA GR-1 requirements. 2KXL5, 2KXL6, and 2KXL8 are UL Listed.

Wire Size	No. of Cond.	Spool Length	Jacket Material	Jacket Color	Wire Color	Brand	SOLID Item No.	STRANDED Item No.
MC Lite								
14 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/White	AFC	4JC34	—
14 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/Red/White	AFC	4JC35	—
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/White	AFC	4JC30	4JC31
12 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/Red/White	AFC	4JC32	4JC33
MC ap								
14 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/White	Southwire	2VGF3	—
14 AWG	2 with Bare AL Ground	1000 ft	Aluminum	Silver	Bare/Black/White	Southwire	2VGF4	—
14 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/Red/White	Southwire	2VGF5	—
12 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/White	Southwire	2VGF6	—
12 AWG	2 with Bare AL Ground	1000 ft	Aluminum	Silver	Bare/Black/White	Southwire	2VGF7	—
12 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/Red/White	Southwire	2VGF8	—
10 AWG	2 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/White	Southwire	2VGF9	—
10 AWG	3 with Bare AL Ground	250 ft	Aluminum	Silver	Bare/Black/Red/White	Southwire	2VGG1	—
HCF Lite								
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Green	Black/Green/White	AFC HCF	1YTF9	1YTG1
MC								
14 AWG	2 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black/Green/White	Southwire	20KZ44	—
14 AWG	3 with Insulated CU Ground	25 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ45	—
14 AWG	3 with Insulated CU Ground	50 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ46	—
14 AWG	3 with Insulated CU Ground	100 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ47	—
14 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ48	—
14 AWG	3 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ49	—
14 AWG	4 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Blue/Green/Red/White	Southwire	20KZ50	—
12 AWG	2 with Insulated CU Ground	25 ft	Aluminum	Silver	Black/Green/White	Southwire	20KZ51	—
12 AWG	2 with Insulated CU Ground	50 ft	Aluminum	Silver	Black/Green/White	Southwire	20KZ52	—
12 AWG	2 with Insulated CU Ground	100 ft	Aluminum	Silver	Black/Green/White	Southwire	20KZ53	20KZ57
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/White	Southwire	20KZ54	20KZ58
12 AWG	3 with Insulated CU Ground	100 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	—	20KZ59
12 AWG	3 with Insulated CU Ground	250 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ55	20KZ60
12 AWG	3 with Insulated CU Ground	1000 ft	Aluminum	Silver	Black/Green/Red/White	Southwire	20KZ56	20KZ61
MC FPLP Fire Alarm								
14 AWG	2 with Insulated CU Ground	250 ft	Galvanized Steel	Red	Black/Green/White	AFC Fire Alarm	1YTG2	—
MC HCF								
12 AWG	2 with Insulated CU Ground	250 ft	Aluminum	Green	Black/Green/White	Southwire	20KZ62	20KZ64
Antishort Bushing, Pkg. of 35						AFC	—	3CTT2

AFC CABLE SYSTEMS® A PART OF atkore

Southwire®

Solid 4JC34



Armored Type MC Cable

Cables are rated for 600V and rated 194°F dry. UL Listed, NEC compliant.

MC-LITE®

Designed with lightweight aluminum armor. UL Classified 1-, 2-, and 3-hr. through penetration

MCAP®

Constructed for superior grounding performance compared to regular MC and AC cables. Features integral grounding/bonding conductor.

MC

Fire Alarm®—For fire alarm systems from panels to devices. Features aluminum-bond ground, red armor, and dual-rated MC/FPLP. UL Listed for plenum use. NFPA compliant. UL Classified 1-, 2-, and 3-hr. through penetration

HCF—Designed for hospital and healthcare use. Armor and aluminum bond provides ground NEC 250.118 (8)

Armored Type MC Cable Whips

Southwire®

- MC Lite
- 6-ft. length
- 6" leads
- 600V

Interlocked steel armor with factory installed conductors.

Wire Size	No. of Cond.	Stranded/Solid	Wire Type	Wire Color	Max. Amps	Item No.
With Lock Nut Fittings						
12 AWG	3 with Insulated CU Ground	Stranded	MC, THHN	Black/Green/Red/White	20	25K880
14 AWG	2	Stranded	MC, THHN	Black/White	15	25K878
14 AWG	3 with Insulated CU Ground	Solid	MC, THHN	Black/Green/White	15	25K873
14 AWG	4 with Insulated CU Ground	Solid	MC, THHN	Black/Green/Red/White	15	25K874
18 AWG	3 with Insulated CU Ground	Solid	MC, TFFN, TFN	Black/Green/Red/White	7	25K870
With Snap In Fittings						
14 AWG	3 with Insulated CU Ground	Solid	MC, THHN	Black/Green/Red/White	15	25K876
14 AWG	3 with Insulated CU Ground	Stranded	MC, THHN	Black/Green/Red/White	15	25K881
18 AWG	3 with Insulated CU Ground	Solid	MC, TFFN, TFN	Black/Green/Red/White	7	25K875

25K875

L	Flexible Conduit Type	Brand	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Steel									
25 ft	Extra Flex	—	53CK01	—	—	—	—	—	—
25 ft	Reduced Wall	—	3FLE1	3FLE2	3FLE4	—	—	3FLE7	3FLE8
50 ft	Extra Flex	—	53CK02	—	—	53CJ99	—	—	—
50 ft	Reduced Wall	—	6A419	6A420	4JC52	4JC53	3FLE6	—	—
100 ft	Extra Flex	—	53CK03	—	—	—	—	—	—
100 ft	Reduced Wall	—	5YH59	5YH60	5YH61	—	—	—	—
500 ft	Reduced Wall	—	3FND7	3FLE3	3FLE5	—	—	—	—
Stainless Steel									
25 ft	Bare	Calbrite	—	40KG10	40KF98	40KG06	40KG04	40KG01	40KG09
Aluminum									
25 ft	Reduced Wall	—	3FLE9	3FLF2	3FLF4	—	—	3FLF7	3FLF8
50 ft	Reduced Wall	—	4JC54	4JC55	4JC56	4JC57	3FLF6	—	—
100 ft	Reduced Wall	—	5YH62	5YH63	5YH64	—	—	—	—
500 ft	Reduced Wall	—	3FLF1	3FLF3	3FLF5	—	—	—	—
316 Stainless Steel									
25 ft.	PVC Clear Coat	Calbrite	—	40KF99	40KG03	40KG12	—	40KG11	40KG02
25 ft.	PVC Coated	Calbrite	—	40KG07	40KG08	40KF97	40KG13	40KG14	40KG05

3FLE9

Calbrite™ Stainless Steel Conduit Systems

Flexible Metal Conduit

Easy to cut, no bending required—replaces EMT conduit in difficult or impractical locations. For dry locations only except PVC coated rated NEMA 4X.

90° Connectors Clamp Style

90° Connectors Saddle Style

Straight Connectors Saddle Style

Straight Connectors Set Screw Clamp Style

Straight Connectors Snap-In Style

Straight Connectors Squeeze Clamp Style

Straight Duplex Box Connectors

BELL A Division of Hubbell Incorporated (Delaware) · RACO A Division of Hubbell Incorporated (Delaware) · Thomas&Betts A Member of the ABB Group

Connectors for Flexible Metal Conduit, AC & MC Cable

Connectors join unthreaded flexible metal conduit (FMC), armored cable (AC), and metal clad cable (MC) to junction boxes and enclosures.

Trade Size	Compatible Knockout Trade Size	Connector	For Use With	Insulated	Material	Brand	Item No.
90° Connectors - Clamp Style							
⅜"	⅜ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GX36**
½"	½ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GY85**
½",-1-1/4"	1 ¼ in	Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206G93**
¾"	¾ in	Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206G91**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GY93**
1"	1 in	Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206D15**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GY92**
1¼"	1 ¼ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**206G64**
1½"	1 ½ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**206G65**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206G94**
2"	2 in	Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206D16**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Bell	**35U093**
90° Connectors - Saddle Style							
⅜"	½ in	Threaded End Box Connection	AC, Flexible Conduit, MC	Yes	Steel	Thomas & Betts	**2RET2**
		Threaded End Box Connection	AC, Flexible Conduit, MC	No	Steel	Thomas & Betts	**2RET3**
Straight Connectors - Saddle Style							
⅜"	⅜ in	Threaded End Box Connection	AC, Flexible Conduit, MC	No	Steel	Thomas & Betts	**2RER9**
	½ in	Threaded End Box Connection	AC, Flexible Conduit, MC	Yes	Steel	Thomas & Betts	**2RET1**
Straight Connectors - Set Screw Clamp Style							
½"	½ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Steel	Raco	**1RVU8**
Straight Connectors - Snap-In Style							
½"	½ in	Snap-In Box Connection	MCI	No	Steel	Raco	**3LV72**
Straight Connectors - Squeeze Clamp Style							
⅜"	⅜ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Iron	Raco	**2DDE4**
	½ in	Threaded End Box Connection	AC, Flexible Conduit, MC	No	Zinc	Bell	**35U191**
		Threaded End Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**4JC41**
½"		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Iron	Raco	**3LK38**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GY62**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**4JC42**
¾"	¾ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Iron	Raco	**3LK39**
		Threaded End Box Connection	AC, Flexible Conduit, MC	No	Zinc	—	**3LV68**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GY71**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**4JC43**
1"	1 in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Iron	Raco	**3LK40**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**43GZ02**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**4JC44**
1¼"	1 ¼ in	Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206H01**
		Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Bell	**35U145**
1½"	1 ½ in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Bell	**35U133**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Raco	**206G57**
2"	2 in	Snap-In Box Connection	AC, Flexible Conduit, MC	No	Zinc	Raco	**206D07**
		Snap-In Box Connection	AC, Flexible Conduit, MC	Yes	Iron	Bell	**35U107**
Straight Duplex Box Connectors							
½"	½ in	Snap-In Box Connection	MC, MCI	No	Steel	Raco	**3LV73**

52AX66

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2-Screw Connectors

Die-cast zinc plating connectors are used to connect NM sheathed and oval type SE or USE cable to box or enclosure. UL Listed for use with NM-B cable.

Box Connection	Use With - Nonmetallic Building Cable	Item No.
Threaded Metal Connectors		
½ in MNPT	(1) 10/2, (1) 12/2, (1) 12/3 with Ground; (1) 14/2, (1) 12/3 without Ground, (1) 14/3, Oval Cable: (1) 14/2	**52AX66**
¾ in MNPT	(1) 10/3, (1) 6/3, Round Cable: (1) 6/2	**52AX70**
1 in MNPT	(1) 4/3, Round Cable: (1) 6/3	**52AX71**
1 ¼ in MNPT	(1) 10/2, (1) 12/2, (1) 12/3 with Ground; (1) 14/2, (1) 12/3 without Ground, (1) 14/3, Oval Cable: (1) 14/2	**52AX67**
1 ½ in MNPT	(1) ⅔, Oval Cable: (1) 6/3	**52AX68**
2 in MNPT	(1) 0000/3, Oval Cable: (1) 000/3	**52AX69**

3FLE9

Calbrite Stainless Steel Conduit Systems

Flexible Metal Conduit

Easy to cut, no bending required—replaces EMT conduit in difficult or impractical locations. For dry locations only except PVC coated rated NEMA 4X.

L	Flexible Conduit Type	Brand	⅜" Item No.	½" Item No.	¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Steel									
25 ft	Extra Flex	—	**53CK01**	—	—	—	—	—	—
25 ft	Reduced Wall	—	**3FLE1**	**3FLE2**	**3FLE4**	—	—	**3FLE7**	**3FLE8**
50 ft	Extra Flex	—	**53CK02**	—	—	**53CJ99**	—	—	—
50 ft	Reduced Wall	—	**6A419**	**6A420**	**4JC52**	**4JC53**	**3FLE6**	—	—
100 ft	Extra Flex	—	**53CK03**	—	—	—	—	—	—
100 ft	Reduced Wall	—	**5YH59**	**5YH60**	**5YH61**	—	—	—	—
500 ft	Reduced Wall	—	**3FND7**	**3FLE3**	**3FLE5**	—	—	—	—
Stainless Steel									
25 ft	Bare	Calbrite	—	**40KG10**	**40KF98**	**40KG06**	**40KG04**	**40KG01**	**40KG09**
Aluminum									
25 ft	Reduced Wall	—	**3FLE9**	**3FLF2**	**3FLF4**	—	—	**3FLF7**	**3FLF8**
50 ft	Reduced Wall	—	**4JC54**	**4JC55**	**4JC56**	**4JC57**	**3FLF6**	—	—
100 ft	Reduced Wall	—	**5YH62**	**5YH63**	**5YH64**	—	—	—	—
500 ft	Reduced Wall	—	**3FLF1**	**3FLF3**	**3FLF5**	—	—	—	—
316 Stainless Steel									
25 ft.	PVC Clear Coat	Calbrite	—	**40KF99**	**40KG03**	**40KG12**	—	**40KG11**	**40KG02**
25 ft.	PVC Coated	Calbrite	—	**40KG07**	**40KG08**	**40KF97**	**40KG13**	**40KG14**	**40KG05**

5D884

5D899

5D724

5D798

5D924

5D971

HUBBELL® Wiring Device-Kellems

Liquid-Tight Cord Connectors

- Nylon: for washdown areas
- Aluminum: where lighter weight or better corrosion resistance is desired
- Zinc-plated steel: where higher impact resistance and tensile strength are desired

Proprietary split-hinge Gotcha® ring, color-coded by cord size, grips conductor through cord jacket. Factory-lubricated bushing provides even compression, ensures liquid-tight seal around cord, and minimizes tension on terminals. UL Listed, CSA Certified.

NYLON

Tough, durable, and highly resistant to corrosion.

MACHINED METAL

More durable and reliable than cast metal parts.

Note: Order locknuts on page 306.

		NYLON		ALUMINUM		ZINC-PLATED STEEL	
Conduit Size	Cord Dia. Range	Straight Item No.	90° Item No.	Straight Item No.	90° Item No.	Straight Item No.	90° Item No.
⅜"	0.19 in to 0.25 in	5D876	—	5D712	—	—	—
	0.25 in to 0.31 in	5D877	—	5D713	2XYJ4	2XYL8	—
	0.25 in to 0.38 in	2XYL9	—	5D714	—	—	—
	0.38 in to 0.44 in	2XYN1	—	5D715	2XYJ6	5D919	—
	0.31 in to 0.38 in	—	—	—	2XYJ5	—	—
½"	0.13 in to 0.19 in	5D881	2XYJ8	5D721	2XYJ7	2XYN3	—
	0.19 in to 0.25 in	5D882	2XYJ9	5D716 *	5D798	5D922	2XYK1
	0.25 in to 0.38 in	5D883	5D899	5D723	5D799	5D923	5D971
	0.38 in to 0.50 in	5D884	5D900	5D724	5D800	5D924	5D972
	0.50 in to 0.63 in	5D885	5D901	5D725	5D801	5D925	5D973
	0.06 in to 0.13 in	2XYN2	—	5D720	—	—	—
	0.63 in to 0.75 in	—	—	5D726	—	2XYN4	—
	0.75 in to 0.88 in	—	—	5D727	—	2XYN5	—
	0.25 in to 0.31 in	—	—	5D717	—	—	—
	0.31 in to 0.38 in	—	—	5D718	—	—	—
	0.38 in to 0.44 in	—	—	5D719	—	—	—
	0.19 in to 0.25 in	—	—	5D722	—	—	—
¾"	0.38 in to 0.50 in	5D886	2XYK3	5D732	2XYK2	5D932	2XYK4
	0.50 in to 0.63 in	5D887	5D903	5D733	2XYK5	5D933	2XYK6
	0.63 in to 0.75 in	5D888	5D904	5D735	5D804	5D934	2XYK7
	0.75 in to 0.88 in	5D889	2XYK8	5D736	5D805	5D935	5D977
	0.25 in to 0.38 in	—	—	5D731	—	5D931	—
1"	0.63 in to 0.75 in	5D892	—	5D739	2XYK9	5D966	5D978
	0.75 in to 0.88 in	5D893	5D909	5D740	2XYL2	5D967	—
	0.88 in to 1.00 in	5D894	5D910	5D741	2XYL3	5D936	—
	0.50 in to 0.63 in	2XYN6	—	5D738	5D807	2XYP2	—
	1.00 in to 1.13 in	2XYN7	—	5D742	2XYL4	—	—
1¼"	1.00 in to 1.13 in	—	—	5D749	2XYL5	5GTF8	—
	1.13 in to 1.25 in	—	—	5D750	2XYL6	—	—
	1.25 in to 1.38 in	—	—	2XYN8	2XYL7	—	—
1½"	1.00 in to 1.13 in	—	—	2XYN9	5D817	5GTG0	—
	1.25 in to 1.38 in	—	—	2XYP1	5D819	5GTG2	—
	1.13 in to 1.25 in	—	—	5D755	—	5GTG1	—
2"	1.38 in to 1.50 in	—	—	—	5D821	—	—

** Compact 1.45" vs. 1.65" length.*

HUBBELL® Wiring Device-Kellems

Liquid-Tight Cord Mesh Grips

Deluxe stainless steel cord/cable grips completely eliminate pull tension on terminals, indoors or outdoors, sealing out moisture and cutting oils. Grips control cable arc-of-bend and prevent cord pullout. Corrosion resistant with aluminum fitting that connects to box or hub, effectively sealing out contaminants. Useful in wiring enclosures, pendant stations, construction sites, processing and material handling equipment, pumps, motors, and machine tools.

Straight 6C101

90° 6D170

Trade Size	Cable Dia. Range	STRAIGHT Item No.	90° Item No.
⅜"	0.25 in to 0.31 in	6D124	2TGJ4
	0.31 in to 0.38 in	6D125	—
	0.38 in to 0.44 in	—	2TGJ6
½"	0.19 in to 0.25 in	6D126	6D170
	0.25 in to 0.38 in	6D127	6D171
	0.38 in to 0.50 in	6C101	6D172
	0.50 in to 0.63 in	6C102	6D173
	0.63 in to 0.75 in	6D128	—
¾"	0.25 in to 0.38 in	6D131	—
	0.38 in to 0.50 in	6D132	6D174
	0.50 in to 0.63 in	6C103	6D175
	0.63 in to 0.75 in	6C104	6D176
	0.75 in to 0.88 in	6D133	6D177
1"	0.50 in to 0.63 in	5C801	—
	0.63 in to 0.75 in	5C802	—
	0.75 in to 0.88 in	6C105	6D179
	0.87 in to 1.00 in	6C106	2VRV9
	1.00 in to 1.13 in	6D135	2TGK3
1¼"	0.87 in to 1.00 in	6D136	—
	1.00 in to 1.13 in	6D137	2TGK2
	1.13 in to 1.25 in	6D138	2TGJ7
	1.25 in to 1.38 in	6D139	—
1½"	1.00 in to 1.13 in	6D142	2TGJ8
	1.13 in to 1.25 in	6D143	2TGJ9
	1.25 in to 1.38 in	6D144	—
2"	1.44 in to 1.56 in	6D152	2TGK4
	1.56 in to 1.69 in	6D153	—

2A246

HUBBELL RACO® A Division of Hubbell Incorporated (Delaware)

Thomas&Betts A Member of the ABB Group

2DDK4

Liquid-Tight Cord Grip Connectors

Connectors can be tightened with pliers or screwdrivers when working in tight areas. Type 304 stainless steel connectors withstand harsh environments, including heat and UV.

Conduit Size	Cord Dia. Range	Brand	Item No.
Straight			
Aluminum			
½"	0.06 in to 0.13 in	Raco	52AY03
	0.25 in to 0.31 in	Raco	52AY07
	0.31 in to 0.38 in	Raco	52AY15
	0.50 in to 0.63 in	Raco	52AY10
¾"	0.19 in to 0.25 in	Raco	52AX42
	0.50 in to 0.63 in	Raco	52AY09
1"	0.38 in to 0.50 in	Raco	52AX52
	0.50 in to 0.63 in	Raco	52AX45
	0.63 in to 0.75 in	Raco	52AX46
	0.70 in to 0.95 in	T&B	2DDJ7
Malleable Iron/Steel			
½"	0.12 in to 0.25 in	Raco	2A246
	0.25 in to 0.38 in	Raco	2A247
Nylon			
½"	0.06 in to 0.13 in	Raco	52AY06
	0.25 in to 0.38 in	Raco	52AY08
	0.50 in to 0.63 in	Raco	52AY12
¾"	0.13 in to 0.38 in	T&B	2DDH2
	0.38 in to 0.50 in	Raco	52AY20
	0.50 in to 0.63 in	Raco	52AY14
1"	0.31 in to 0.56 in	T&B	2DDJ2
	0.63 in to 0.75 in	Raco	52AX49
Stainless Steel			
½"	0.13 in to 0.38 in	T&B	3EHV6
	0.36 in to 0.56 in	T&B	3EHV7
	0.50 in to 0.75 in	T&B	3EHV8
¾"	0.13 in to 0.38 in	T&B	3EHV9
	0.31 in to 0.56 in	T&B	3EHW1
	0.50 in to 0.75 in	T&B	3EHW2
1"	0.31 in to 0.56 in	T&B	3EHW3
	0.70 in to 0.95 in	T&B	3EHW4
Steel			
½"	0.25 in to 0.35 in	Raco	52AX47
	0.50 in to 0.75 in	T&B	2DDG6
¾"	0.25 in to 0.38 in	Raco	52AY13
	0.38 in to 0.50 in	Raco	52AY11
	0.45 in to 0.56 in	Raco	52AY05
1"	0.60 in to 0.70 in	Raco	52AX43
	0.70 in to 0.85 in	Raco	52AY18
90°			
Aluminum			
½"	0.13 in to 0.38 in	T&B	2DDK4
	0.31 in to 0.56 in	T&B	2DDK7
¾"	0.13 in to 0.38 in	T&B	2DDL2
	0.31 in to 0.56 in	T&B	2DDL5
	0.50 in to 0.75 in	T&B	2DDL8
1"	0.31 in to 0.56 in	T&B	2DDN2
Malleable Iron			
½"	0.15 in to 0.25 in	Raco	52AY16
	0.25 in to 0.38 in	Raco	52AY17
	0.45 in to 0.56 in	Raco	52AY19
¾"	0.25 in to 0.38 in	Raco	52AX44
	0.45 in to 0.56 in	Raco	52AY21
1"	0.45 in to 0.56 in	Raco	52AX53
Nylon			
½"	0.13 in to 0.38 in	T&B	2DDK5
	0.31 in to 0.56 in	T&B	2DDK8
¾"	0.13 in to 0.38 in	T&B	2DDL3
	0.31 in to 0.56 in	T&B	2DDL6
	0.50 in to 0.75 in	T&B	2DDL9
45°			
Malleable Iron			
½"	0.15 in to 0.25 in	Raco	52AX50
	0.25 in to 0.35 in	Raco	52AX51
	0.45 in to 0.56 in	Raco	52AX48

5D520

HUBBELL® Wiring Device-Kellems

Liquid-Tight Miniature Nylon Straight Connectors

Miniature version of full-size cord connectors. Resist corrosion. Hand-tightening installation. Complete with split-hinge Gotcha® ring and neoprene bushing. Include nylon locknut. Gray color. UL Listed (E54218(M)) and CSA Certified (LR27378).

Conduit Size	Cord Dia. Range	STANDARD Item No.	WITH SPIRAL Item No.
¼"	0.08 in to 0.14 in	5D520	5D544
¼"	0.14 in to 0.20 in	5D521	5D545
¼"	0.20 in to 0.27 in	5D522	5D546
⅜"	0.15 in to 0.21 in	5D523	—
⅜"	0.21 in to 0.28 in	5D524	5D548
⅜"	0.28 in to 0.34 in	5D525	5D549
½"	0.19 in to 0.25 in	5D528	6D058
½"	0.25 in to 0.31 in	5D529	6D059
½"	0.31 in to 0.38 in	5D530	6D060
½"	0.38 in to 0.44 in	5D531	6D061

2DPD9

HUBBELL® Wiring Device-Kellems

Low-Profile Euro Nylon Cord Connectors

Straight connectors provide excellent pullout strength and can be installed without disassembly. Resist saltwater, weak acids, gasoline, alcohol, oil, grease, and common solvents. Threaded body guards against skipping and speeds installation. Compression nut ratchet prevents unintentional loosening. Suitable for NEMA Type 4 and 6 enclosures. UL Listed and CSA Certified.

Hub Trade Size	Cord Dia. Range	GRAY Item No.	BLACK Item No.	LOCKNUTS Item No.
⅜"	0.18 in to 0.31 in	2DPE3	2DPE2	2DZG5
½"	0.17 in to 0.45 in	2DPE5	2DPE4	2DZG6
¾"	0.45 in to 0.71 in	2DPE7	2DPE6	2DZG7
1"	0.59 in to 1.00 in	2DPE1	2DPD9	2DZG8
PG7	0.11 in to 0.25 in	2DPF8	2DPF7	2DZH4
PG9	0.18 in to 0.31 in	2DPG1	2DPF9	2DZH5
PG11	0.23 in to 0.40 in	2DPE9	2DPE8	2DZG9
PG13.5	0.17 in to 0.47 in	2DPF2	2DPF1	2DZH1
PG16	0.23 in to 0.53 in	2DPF4	2DPF3	2DZH2
PG21	0.45 in to 0.71 in	2DPF6	2DPF5	2DZH3

6D018

HUBBELL® Wiring Device-Kellems

Non-Liquid-Tight Nylon Snap-in Connectors with Spiral

Provide arc-of-bend control to improve cord life and reduce conductor breakage. 6D018 and 5D513 fit chassis thickness up to 0.10"; 5D514 and 5D515 up to 0.13". Gray color. UL Listed (E96650) and CSA Certified (LR27378).

Cord Dia. Range	Item No.
0.22 in to 0.27 in	6D018
0.28 in to 0.32 in	5D513
0.30 in to 0.36 in	5D514
0.32 in to 0.43 in	5D515

Thomas&Betts A Member of the ABB Group

2HYA6

Compact Nylon Multicord Grips

Nonmetallic connectors are excellent for use in limited-space environments where multiple cables enter an enclosure. Nylon 6 construction provides excellent corrosion, chemical, and impact resistance. NEMA 4 and IP68 rated. Gray color. CSA Certified.

Conduit Size	No. of Cords	Cord Dia. Range	Item No.
⅜"	1	0.20 in to 0.39 in	2HYA6
½"	1	0.39 in to 0.55 in	2HYA5
½"	2	0.19 in to 0.25 in	2HXZ9
½"	3	0.19 in to 0.25 in	2HYA1
¾"	2	0.23 in to 0.29 in	2HYA2
¾"	3	0.23 in to 0.29 in	2HYA3
¾"	4	0.23 in to 0.29 in	2HYA4

2A246

HUBBELL RACO® A Division of Hubbell Incorporated (Delaware)

Liquid-Tight Strain Relief Cord Connectors

Note: Locknuts and seal rings are not included, see page 306 and 314.

Conduit Size	Cord Dia. Range	Item No.
Straight Connectors		
½"	0.12 in to 0.25 in	2A246
½"	0.25 in to 0.38 in	2A247
½"	0.38 in to 0.50 in	2A248
½"	0.50 in to 0.60 in	2A251
Underground Feeder Connector		
½"	0.22 in to 0.42 in	2A252

2FPF6

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Machined Aluminum Tray Cable and Cord Fittings

Silver Grip TCF Series nonmagnetic, corrosion-resistant straight aluminum fittings are designed for installation in Class 1 Gas and Vapor environments, without the use of tools. They provide efficient strain relief for cable entering enclosures and raceways in hazardous locations. Tapered neoprene bushing and O-ring seal out moisture and dirt. The chuck grip exceeds the pullout value required by NEC. CSA Certified.

Note: Tray cable and portable cord applications comply with IEC requirements for Class 1, Zone 2, and Zone 1 locations, respectively, when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF fittings must be used in combination with a certified Class 1 hazardous location sealing fitting.

Hub Trade Size	Cord Dia. Range	Item No.
½"	0.15 in to 0.27 in	2FPF6
½"	0.25 in to 0.40 in	2FPF7
½"	0.40 in to 0.54 in	2FPF8
½"	0.54 in to 0.67 in	2FPF9
½"	0.66 in to 0.78 in	2FPG1
¾"	0.25 in to 0.40 in	2FPG2
¾"	0.40 in to 0.54 in	2FPG3
¾"	0.54 in to 0.67 in	2FPG4
¾"	0.66 in to 0.78 in	2FPG5
¾"	0.77 in to 0.88 in	2FPG6
1"	0.87 in to 1.00 in	2FPG7
1"	0.66 in to 0.78 in	2FPG8
1"	0.77 in to 0.88 in	2FPG9
1¼"	0.80 in to 1.09 in	2FPH1
1¼"	1.08 in to 1.28 in	2FPH2
1¼"	1.27 in to 1.47 in	2FPH3
1½"	0.89 in to 1.15 in	2FPH4
1½"	1.14 in to 1.40 in	2FPH5
1½"	1.39 in to 1.65 in	2FPH6
2"	1.19 in to 1.53 in	2FPH7
2"	1.52 in to 1.86 in	2FPH8
2"	1.85 in to 2.19 in	2FPH9

HUBBELL® Wiring Device-Kellems

2AXJ8

Nylon Liquid-Tight Connectors with Strain Relief

Multiweave mesh gives these straight grips arc-of-bend control, minimizing damage and extending cable or conduit life. Stainless steel mesh is corrosion-resistant. For indoor or outdoor use. UL Listed and CSA Certified.

Trade Size	Cable Dia. Range	Item No.
½"	0.38 in to 0.50 in	2AXJ8
½"	0.50 in to 0.63 in	2AXJ9
¾"	0.38 in to 0.50 in	2AXK1
¾"	0.50 in to 0.63 in	2AXK2
¾"	0.63 in to 0.75 in	2DDV6

36HY35

36HY50

Stainless Steel Cord Grips

Calbrite
Stainless Steel Conduit Systems

Provide exceptional tensile strength and the highest levels of durability in harsh/corrosive environments. Polished with standard bright finish to increase corrosion resistance and aesthetic appearance. All connectors include an embedded Buna-A O-Ring. All connectors include a stainless steel Locknut. No package quantity required. Manufactured in type 304 stainless steel.

Hub Trade Size	Cord Dia. Range	WITHOUT MESH GRIP Item No.	WITH MESH GRIP Item No.
½"	0.12 in to 0.18 in	**36HY35**	—
½"	0.18 in to 0.25 in	**36HY36**	—
½"	0.25 in to 0.31 in	**36HY37**	**36HY50**
½"	0.31 in to 0.37 in	**36HY38**	**36HY51**
½"	0.37 in to 0.43 in	**36HY39**	—
½"	0.43 in to 0.50 in	**36HY40**	**36HY52**
½"	0.50 in to 0.56 in	**36HY41**	**36HY53**
½"	0.56 in to 0.62 in	**36HY42**	**36HY54**
¾"	0.43 in to 0.50 in	**36HY43**	—
¾"	0.50 in to 0.63 in	**36HY44**	**36HY55**
¾"	0.56 in to 0.68 in	**36HY45**	**36HY56**
¾"	0.62 in to 0.75 in	**36HY46**	—
¾"	0.68 in to 0.81 in	**36HY47**	**36HY57**
1"	0.56 in to 0.68 in	**36HY48**	—
1"	0.81 in to 0.93 in	**36HY49**	**36HY58**
1"	0.87 in to 1.00 in	—	**36HY59**

I-Grip
6D190

Bus Drop
6C095

Strain-Relief Devices and Cable Support Grips

HUBBELL Wiring Device-Kellems

UL Listed (except 6C095) and CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 10.

I-GRIPS FOR HUBBELL INSULGRIP® PLUGS AND CONNECTORS

Strain relief devices control cable arc-of-bend and reduce high pull tensions on cordsets from wiring terminals. Fit all 2-, 3-, 4-, and 5-wire Hubbell Insulgrip plugs and connector bodies. Eye tabs fit under nylon cord clamp and screws slide through eyelet holes, securing grip in place. Made of high-strength, plastic-coated galvanized steel strand. Indoor use only.

Note: Grip only; plug and connectors are not included. See page 326 for plugs.

BUS-DROP CABLE SUPPORT GRIPS

Safe, easy, and economical method to support flexible-cord or bus-drop cable. Galvanized wire mesh ensures holding power. Single eye easily attaches to any hanger. For indoor use only. Suitable for assembly equipment in manufacturing, processing, or material handling applications.

Cable Dia. Range	Mesh Length	I-GRIP Mfr. Model	I-GRIP Item No.	BUS DROP Mfr. Model	BUS DROP Item No.
0.24 in to 0.32 in	3 ½ in	—	—	073041276	**6C095**
0.32 in to 0.43 in	4 in	07310001	**6D190**	073041277	**6C096**
0.43 in to 0.56 in	4 ¾ in	07310002	**6D191**	073041278	**6C097**
0.56 in to 0.73 in	6 in	07310003	**6D192**	073041279	**6C098**
0.73 in to 0.85 in	6 ½ in	07310004	**6D193**	—	—
0.73 in to 0.85 in	6 ¾ in	—	—	073041280	**6C099**
0.85 in to 1.00 in	8 in	07310005	**6D194**	073041281	**6C100**
1.00 in to 1.25 in	10 in	07310006	**6D195**	—	—
1.00 in to 1.25 in	9 ½ in	—	—	073041282	**6D123**

Closed Mesh
6D229

Rod Closing
6D240

Lace Closing
6D251

Single-Eye Cable Support Grips

HUBBELL Wiring Device-Kellems

Hold the weight of electrical cables as they hang in a vertical, sloping, or horizontal position. The single eye simplifies attachment. Easy to install, reuse, and reposition. Split styles wrap around cable when cable end is not accessible. Tin-coated bronze. UL Listed and CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 10.

Cable Dia. Range	Breaking Strength	Eye Length	CLOSED MESH Mfr. Model	CLOSED MESH Item No.	ROD CLOSING Mfr. Model	ROD CLOSING Item No.	LACE CLOSING Mfr. Model	LACE CLOSING Item No.
0.50 in to 0.62 in	530 lb	7 in	02201013	**6D229**	—	—	02202013	**6D251**
0.50 in to 0.62 in	790 lb	7 in	—	—	02203013	**6D240**	—	—
0.63 in to 0.74 in	790 lb	8 in	02201014	**6D230**	02203014	**6D241**	02202014	**6D252**
0.75 in to 0.99 in	1,020 lb	8 in	02201015	**6D231**	02203015	**6D242**	02202015	**6D253**
1.00 in to 1.24 in	1,610 lb	9 in	02201017	**6D232**	02203017	**6D243**	02202017	**6D254**
1.25 in to 1.49 in	1,610 lb	10 in	02201018	**6D233**	02203018	**6D244**	02202018	**6D255**
1.50 in to 1.74 in	1,610 lb	12 in	02201019	**6D234**	02203019	**6D245**	02202019	**6D256**
1.75 in to 1.99 in	2,150 lb	14 in	02201020	**6D235**	02203020	**6D246**	02202020	**6D257**
2.00 in to 2.49 in	3,260 lb	16 in	02201021	**6D236**	02203021	**6D247**	02202021	**6D258**
2.50 in to 2.99 in	3,260 lb	18 in	02201022	**6D237**	02203022	**6D248**	—	—

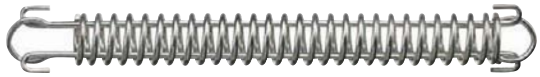
6C089

Mesh Grips for Cord and Cable

HUBBELL Wiring Device-Kellems

Strong strain-relief grips prevent cable pullout where a dust-tight seal is required. Galvanized steel. UL Listed and CSA Certified.

Trade Size	Cable Dia. Range	UNINSULATED Mfr. Model	UNINSULATED Item No.	INSULATED Mfr. Model	INSULATED Item No.
½"	0.24 in to 0.32 in	073031200	**6C089**	073031206	**6D113**
½"	0.32 in to 0.43 in	073031201	**6C090**	073031207	**6D114**
½"	0.43 in to 0.54 in	073031202	**6C091**	073031208	**6D115**
¾"	0.54 in to 0.73 in	073031203	**6C092**	073031209	**6D116**
1"	0.73 in to 0.97 in	073031204	**6C093**	073031210	**6D117**
1¼"	0.97 in to 1.25 in	073031205	**6C094**	073031211	**6D118**
1½"	1.25 in to 1.50 in	—	—	073031212	**6D119**
2"	1.50 in to 1.70 in	—	—	073031213	**6D120**



6D262

Safety Springs

HUBBELL Wiring Device-Kellems

High-quality zinc-plated steel springs relieve sudden tension on cable systems. Easy to install and use with bus-drop and strain-relief grips. UL Listed and CSA Certified.

Description	Approx. Breaking Strength	Length (No Load)	Dia.	Mfr. Model	Item No.
40-lb. Spring	500 lb	8 ¼ in	¾ in	20302001	**6D262**
80-lb. Spring	850 lb	8 ¼ in	1 in	20302002	**6D263**

55KR91

55KT34

55KU30

5C228

5C266

3D014

3KT99

1CFC5

Wall Plates

Plates may have openings that provide access to switches, push buttons, outlets, and other components on the devices inside the enclosure. The plates also hide the wiring inside the box from view to maintain an attractive appearance.

Item	Size	Material	GRAY Item No.	IVORY Item No.	LIGHT ALMOND Item No.	RED Item No.	WHITE Item No.
Pass & Seymour							
No. of Gangs 1							
Rocker Wall Plate	Standard	Plastic	56FM88	56FM79	56FM85	—	56FM82
No. of Gangs 2							
Rocker Wall Plate	Standard	Plastic	56FM89	—	56FM80	—	56FM83
No. of Gangs 3							
Rocker Wall Plate	Standard	Plastic	56FM90	—	56FM81	—	56FM84
Hubbell Wiring Device-Kellems							
No. of Gangs 1							
Blank Box Mount Wall Plate	Standard	Plastic	55KT96	55KU05	—	—	55KU06
Blank Box Mount Wall Plate	Mid Size	Plastic	55KU24	55KT50	55KU12	—	55KU41
Blank Strap Mount Wall Plate	Standard	Plastic	55KR84	55KR85	55KR83	55KU31	55KR86
Duplex Receptacle Wall Plate	Standard	Plastic	55KT42	55KT43	55KT34	55KT45	55KT46
Duplex Receptacle Wall Plate	Mid Size	Plastic	55KU22	55KT65	55KT61	55KT66	55KT68
Rocker Wall Plate	Mid Size	Plastic	55KU20	55KT56	55KT54	55KT57	55KT58
Rocker Wall Plate	Standard	Plastic	55KT10	55KT11	55KR96	55KT12	55KT13
Single Receptacle Wall Plate	Standard	Plastic	55KT30	55KT31	55KT28	55KT32	55KT33
Single Receptacle Wall Plate	Standard	Plastic	55KU17	55KU29	55KT29	55KU32	55KU36
Toggle Switch Wall Plate	Mid Size	Plastic	55KU18	55KT51	55KT47	55KU37	55KT52
Toggle Switch Wall Plate	Standard	Plastic	55KR91	55KR92	55KR82	55KR93	55KR94
No. of Gangs 2							
Blank Box Mount Wall Plate	Standard	Plastic	55KT84	55KT92	—	—	55KT93
Blank Box Mount Wall Plate	Mid Size	Plastic	—	55KU01	55KT81	—	—
Blank Strap Mount Wall Plate	Standard	Nylon	1LXT9	1LXU1	1LXT8	—	—
Duplex Receptacle Wall Plate	Standard	Plastic	55KT37	55KT38	55KT35	55KT39	55KT40
Duplex Receptacle Wall Plate	Mid Size	Plastic	55KU23	55KT62	55KU11	55KT63	55KT64
Rocker/Duplex Receptacle Wall Plate	Standard	Plastic	—	55KU43	—	—	55KU45
Rocker Wall Plate	Mid Size	Plastic	55KU21	55KT55	55KU10	55KU39	55KU40
Rocker Wall Plate	Standard	Plastic	55KR98	55KR99	55KR97	55KT01	55KT02
Toggle Switch/Blank Wall Plate	Standard	Plastic	—	55KT69	—	—	55KT94
Toggle Switch/Duplex Receptacle Wall Plate	Standard	Plastic	55KR88	55KR89	55KR87	55KU33	55KR90
Toggle Switch/Rocker Wall Plate	Mid Size	Plastic	55KU25	55KT48	55KU13	—	55KT49
Toggle Switch/Rocker Wall Plate	Standard	Plastic	—	55KU44	—	—	55KT98
Toggle Switch Wall Plate	Standard	Plastic	55KT14	55KT15	55KR95	55KT16	55KT17
Toggle Switch Wall Plate	Mid Size	Plastic	55KU19	55KT59	55KU09	55KU38	55KT60
No. of Gangs 3							
Blank Box Mount Wall Plate	Standard	Plastic	—	55KT82	—	—	55KT79
Duplex Receptacle Wall Plate	Standard	Plastic	—	55KT85	—	—	55KT86
Rocker Wall Plate	Standard	Plastic	55KT05	55KT06	55KT03	55KU30	55KT07
Toggle Switch/Rocker Wall Plate	Mid Size	Plastic	55KU26	55KT53	55KU14	—	55KU42
Toggle Switch Wall Plate	Standard	Plastic	55KU15	55KT19	55KT18	—	55KT20
No. of Gangs 4							
Rocker Wall Plate	Standard	Plastic	55KU16	55KU28	55KT08	—	55KU35
Toggle Switch Wall Plate	Standard	Plastic	55KT21	55KT22	55KU07	—	55KT23
No. of Gangs 5							
Rocker Wall Plate	Standard	Plastic	—	55KT88	55KT97	—	55KT89
Toggle Switch Wall Plate	Standard	Plastic	55KT24	55KU27	55KU08	—	55KU34
No. of Gangs 6							
Toggle Switch Wall Plate	Standard	Plastic	55KT25	55KT26	—	—	55KT27
Approved Vendor							
No. of Gangs 1							
Duplex Receptacle Wall Plate	Jumbo	Plastic	—	492P58	—	—	492P57

Description	No. of Gangs	Item No.
Hubbell Brushed Stainless Steel		
Toggle Switch	1	5Z994
Toggle Switch	2	5Z995
Toggle Switch	3	5Z996
GFCI (Style Line)	1	5C235
GFCI (Style Line)	2	5C236
Duplex Receptacle	1	5C228
Duplex Receptacle	2	5C229
Duplex Receptacle	3	5C230
Blank Box Mount	2	5C267
Telephone	1	3D435
Single Receptacle 1.40" Dia. Hole	1	5C231
Duplex Receptacle/Blank	2	3D436
Toggle Switch/Duplex Receptacle	2	3D437
Toggle Switch/GFCI (Style Line)	2	4D493
Toggle Switch/Blank	2	4D487
Hubbell Smooth Stainless Steel		
GFCI (Style Line)	3	4D501
Hubbell Matte Stainless Steel		
Blank Box Mount	1	5C266
Hubbell Smooth Stainless Steel		
Blank	1	2EAW7
Blank Box Mount	3	4D515
Single Receptacle 1.60" Dia.	1	5C268
Single Receptacle 1.72" Hole Dia.	1	3D465
Single Receptacle 2.15" Hole Dia.	1	6C120
Single Receptacle 2.15" Hole Dia.	2	6C154
Single Receptacle 2.48" Hole Dia.	2	3D445
Duplex Receptacle/Single 1.40" Dia.	2	4D533
Hubbell Brushed Brass		
Duplex Receptacle	1	5C227
Toggle Switch	1	5Z993
Hubbell Brushed Aluminum		
Duplex Receptacle	1	5C226
Toggle Switch	1	5Z992
Hubbell Steel, Chrome Plated		
Blank Box Mount	1	5LY82
Hubbell Weatherproof Plates for PresSwitches		
Neoprene	1	3D012
Neoprene with 120V Pilot Light	1	3D013
Neoprene with Silicone Bubble, Fits Toggle, Tamper-Resistant	1	3D014
Hubbell Steel, White, Security		
Blank	1	3KT92
Duplex Receptacle	1	3KT99
GFCI (Style Line)	1	3KT96
Toggle Switch	1	3KT90
Telephone/TV	1	3KT91
Toggle Switch	2	3KT94
Duplex Receptacle	2	3KV03
Toggle Switch/Duplex Receptacle	2	3KT93
GFCI (Style Line)	2	3KT97
Duplex Receptacle/Telephone	2	3KV01
Duplex Receptacle/Blank	2	3KV02
Blank	2	3KT95
2 Toggle Switch/Duplex Receptacle	3	3KT98
Cortech ABS, White, Tamper Resistant, Security		
Blank	1	1CFD1
Blank	2	1CFD2
Toggle Switch	1	1CFC4
Toggle Switch	2	1CFC7
Duplex Receptacle	1	1CFC5
Duplex Receptacle	2	1CFC8
GFCI	1	1CFC6
GFCI	2	1CFC9

3D384

Lockout Devices for Electrical Plugs

- Yellow

Accept up to ⅜"-dia. lock shackle and multiple padlocks. Nonkeyed units have holes to insert authorized user identification tags (not included). UV-stabilized polypropylene.

Description	Item No.
Plugout® to Accept 15A Molded Plugs	3D384
Plugout® to Accept up to 5W 30A Twist-Lock Devices	6C647
Plugout® to Accept up to 60A Pin & Sleeve Devices	6C648

Plastic Outlet Safety Cap

Insert into unused outlets to serve as a barrier. Easily removed by adults when needed for lights and appliances.

For Use With	Color	Item No.	Pkg. Qty.
15A Straight Blade Connectors	Clear	52NY39	10

52HF17 49YL48 52HE90 49YL57 1X969 49YZ42 1X970 52HE59 5Z809 49YZ68 49YZ76 5Z737

Wall Switches

BRYANT® HUBBELL® Wiring Device-Kellems

Switch Style	Amps AC	Switch Type	Brand	BROWN Mfr. Model	BROWN Item No.	GRAY Mfr. Model	GRAY Item No.	IVORY Mfr. Model	IVORY Item No.	RED Mfr. Model	RED Item No.	WHITE Mfr. Model	WHITE Item No.
General Purpose, Maintained, Push and Side Wire, 120V													
Toggle	15 A	1-Pole	Bryant	RS115	**49YZ74**	—	—	RS115I	**52HF15**	—	—	RS115W	**52HF16**
	15 A	3-Way	Bryant	RS315	**49YZ75**	—	—	RS315I	**52HF17**	—	—	RS315W	**52HF18**
Rocker	15 A	1-Pole	Bryant	RSD115	**52HF19**	—	—	RSD115I	**52HF20**	—	—	RSD115W	**52HF21**
	15 A	3-Way	Bryant	RSD315	**49YZ77**	—	—	—	—	—	—	RSD315W	**52HF22**
Commercial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Bryant	CSB115B	**49YZ69**	CSB115BGRY	**52HF02**	CSB115BI	**52HF03**	—	—	CSB115BW	**52HF04**
	15 A	1-Pole	Hubbell	CSB115	**49YL46**	CSB115GY	**49YL48**	CSB115I	**49YL41**	—	—	CSB115W	**49YL44**
	15 A	3-Way	Bryant	CSB315B	**49YZ72**	CSB315BGRY	**52HF09**	CSB315BI	**52HF10**	—	—	CSB315BW	**52HF11**
	15 A	3-Way	Hubbell	CSB315	**49YL55**	CSB315GY	**52HF30**	CSB315I	**49YL50**	—	—	CSB315W	**49YL53**
	20 A	1-Pole	Bryant	CSB120B	**49YZ70**	CSB120BGRY	**52HF05**	CSB120BI	**52HF06**	CSB120BRED	**52HF07**	CSB120BW	**52HF08**
	20 A	1-Pole	Hubbell	CSB120	**49YL42**	CSB120GY	**49YL47**	CSB120I	**49YL39**	CSB120R	**49YL61**	CSB120W	**49YL40**
	20 A	2-Pole	Bryant	CSB220B	**49YZ71**	—	—	—	—	—	—	—	—
	20 A	2-Pole	Hubbell	CSB220	**49YL56**	—	—	—	—	—	—	—	—
	20 A	3-Way	Hubbell	CSB320	**49YL51**	CSB320GY	**49YL52**	CSB320I	**49YL43**	—	—	CSB320W	**49YL49**
	20 A	3-Way	Bryant	CSB320B	**49YZ73**	CSB320BGRY	**52HF12**	BRYCSB320BI	**52HF13**	—	—	CSB320BW	**52HF14**
Rocker	15 A	1-Pole	Hubbell	DS115	**5Z778**	DS115GY	**5Z781**	DS115I	**5Z779**	—	—	RSD115PLW	**49YL58**
	15 A	1-Pole	Bryant	9801	**49YZ45**	9801GRY	**52HE82**	9801I	**52HE83**	—	—	9801W	**52HE84**
	15 A	1-Pole	Hubbell	—	—	—	—	—	—	—	—	DS115W	**5Z780**
	15 A	3-Way	Hubbell	DS315	**5Z782**	DS315GY	**2LBV2**	DS315I	**5Z783**	—	—	DS315W	**5Z784**
	15 A	3-Way	Bryant	9803	**49YZ46**	9803GRY	**52HE85**	9803I	**52HE86**	—	—	9803W	**52HE87**
	20 A	1-Pole	Hubbell	DS120	**5Z786**	DS120GY	**5Z789**	DS120I	**5Z787**	DS120R	**49YL57**	DS120W	**5Z788**
	20 A	1-Pole	Bryant	9901	**49YZ47**	9901GRY	**52HE90**	9901I	**52HE91**	—	—	9901W	**52HE92**
	20 A	3-Way	Bryant	9903	**49YZ48**	9903GRY	**52HE95**	9903I	**52HE96**	—	—	9903W	**52HE97**
	20 A	3-Way	Hubbell	—	—	—	—	DS320I	**5Z791**	DS320R	**49YL62**	DS320W	**5Z792**
	20 A	4-Way	Bryant	9904	**49YZ49**	9904GRY	**52HE98**	9904I	**52HE99**	—	—	9904W	**52HF01**
	20 A	4-Way	Hubbell	DS420	**49YL63**	DS420GY	**49YL65**	—	—	—	—	DS420W	**49YL60**
Commercial, Maintained, Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Hubbell	—	—	—	—	CS115I	**6A672**	—	—	—	—
Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Bryant	4801B	**49YZ52**	4801BGRY	**52HE44**	4801BI	**52HE45**	—	—	4801BW	**52HE47**
	15 A	1-Pole	Hubbell	HBL1201	**1X969**	HBL1201GY	**4D263**	HBL1201I	**6A699**	HBL1201R	**4D264**	HBL1201W	**4D265**
	15 A	2-Pole	Bryant	4802	**49YZ41**	4802GRY	**52HE48**	4802I	**52HE49**	—	—	4802W	**52HE50**
	15 A	2-Pole	Hubbell	HBL1202	**5Z718**	—	—	HBL1202I	**5Z721**	—	—	—	—
	15 A	3-Way	Bryant	4803B	**49YZ54**	4803BGRY	**52HE51**	4803BI	**52HE52**	—	—	4803BW	**52HE54**
	15 A	3-Way	Hubbell	HBL1203	**5Z719**	HBL1203GY	**2LBU3**	HBL1203I	**5Z722**	—	—	HBL1203W	**49YL54**
	15 A	4-Way	Hubbell	HBL1204	**5Z720**	HBL1204GY	**2LBU4**	HBL1204I	**5Z723**	—	—	HBL1204W	**49YL64**
	15 A	4-Way	Bryant	4804	**49YZ42**	4804GRY	**49YZ56**	4804I	**49YZ57**	—	—	4804W	**49YZ58**
	20 A	1-Pole	Bryant	BRY4901B	**49YZ59**	4901BGRY	**52HE58**	4901BI	**52HE59**	4901BRED	**52HE60**	4901BW	**52HE61**
	20 A	1-Pole	Hubbell	HBL1221	**1X970**	HBL1221GY	**6C540**	HBL1221I	**6A700**	HBL1221R	**3D362**	HBL1221W	**6C541**
	20 A	2-Pole	Bryant	4902B	**49YZ63**	4902BGRY	**52HE64**	4902BI	**52HE63**	4902BRED	**52HE65**	4902BW	**52HE66**
	20 A	2-Pole	Hubbell	HBL1222	**1X971**	HBL1222GY	**4D275**	HBL1222I	**1X972**	HBL1222R	**4D278**	HBL1222W	**4D279**
	20 A	3-Way	Bryant	4903B	**49YZ65**	4903BGRY	**52HE69**	4903BI	**52HE72**	4903BRED	**52HE70**	4903BW	**52HE71**
	20 A	3-Way	Hubbell	HBL1223	**1X973**	HBL1223GY	**6C542**	HBL1223I	**1X974**	HBL1223R	**3D365**	HBL1223W	**6C543**
	20 A	4-Way	Hubbell	HBL1224	**5Z726**	HBL1224GY	**4D284**	HBL1224I	**5Z727**	HBL1224R	**2LBU5**	HBL1224W	**4D286**
	20 A	4-Way	Bryant	4904B	**52HE75**	4904BGRY	**52HE76**	4904BI	**52HE77**	4904BRED	**52HE78**	4904BW	**49YZ68**
	30 A	1-Pole	Bryant	3001	**49YZ40**	—	—	3001I	**52HE40**	—	—	—	—
	30 A	1-Pole	Hubbell	HBL3031	**5Z806**	—	—	HBL3031I	**5Z809**	—	—	—	—
	30 A	2-Pole	Bryant	3002BRN	**52HE41**	—	—	3002I	**49YZ50**	—	—	—	—
	30 A	2-Pole	Hubbell	HBL3032	**5Z807**	—	—	HBL3032I	**5Z810**	—	—	HBL3032W	**52HF31**
	30 A	3-Way	Bryant	3003BRN	**52HE42**	—	—	3003I	**49YZ51**	—	—	—	—
	30 A	3-Way	Hubbell	HBL3033	**5Z808**	—	—	—	—	—	—	—	—
Industrial, Momentary, Back and Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Bryant	4821	**49YZ43**	4821GRY	**52HE56**	4821I	**52HE57**	—	—	—	—
	15 A	1-Pole, 3 Pos. Ctr. Off	Hubbell	HBL1556	**3D376**	HBL1556GY	**3D377**	HBL1556I	**3D378**	HBL1556R	**2LBU8**	HBL1556W	**49YL59**
	20 A	1-Pole	Bryant	4921	**49YZ44**	4921GRY	**52HE80**	4921I	**52HE81**	—	—	—	—
	20 A	1-Pole, 3 Pos. Ctr. Off	Hubbell	HBL1557	**3D380**	HBL1557GY	**2LBU9**	HBL1557I	**3D381**	—	—	HBL1557W	**2LBV1**
Illuminated, Commercial, Maintained, Back and Side Wire, 120V													
Rocker	20 A	1-Pole	Hubbell	—	—	—	—	DS120IL	**5Z794**	—	—	DS120ILW	**5Z795**
	20 A	1-Pole	Bryant	—	—	—	—	9901GLI	**52HE88**	—	—	9901GLW	**52HE89**
	20 A	3-Way	Hubbell	—	—	—	—	DS320IL	**5Z796**	—	—	DS320ILW	**5Z797**
	20 A	3-Way	Bryant	—	—	—	—	9903GLI	**52HE93**	—	—	9903GLW	**52HE94**
Illuminated, Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Hubbell	—	—	—	—	HBL1201IL	**5Z731**	—	—	—	—
	15 A	1-Pole	Bryant	—	—	—	—	4801GLI	**49YZ53**	—	—	—	—
	15 A	3-Way	Bryant	—	—	—	—	4803GLI	**49YZ55**	—	—	—	—
	15 A	3-Way	Hubbell	—	—	—	—	HBL1203IL	**5Z732**	—	—	—	—
	20 A	1-Pole	Bryant	—	—	—	—	4901GLI	**49YZ60**	—	—	—	—
	20 A	1-Pole	Hubbell	—	—	—	—	HBL1221IL	**5Z733**	HBL1221ILC	**4D272** *	—	—
	20 A	3-Way	Hubbell	—	—	—	—	HBL1223IL	**5Z734**	—	—	—	—
	20 A	3-Way	Bryant	—	—	—	—	4903GLI	**49YZ66**	—	—	—	—
Nightlight Commercial, Maintained, Back and Side Wire, 120V													
Rocker	20 A	1-Pole	Hubbell	—	—	—	—	DS120NLIV	**437K32**	—	—	DS120NLWH	**437K33**
Pilot Light, General Purpose, Maintained, Back and Side Wire, 120 to 277V													
Rocker	15 A	1-Pole	Bryant	—	—	—	—	RSD115PLI	**49YZ76**	—	—	—	—
Pilot Light, Industrial, Maintained, Back and Side Wire, 120 to 277V													
Toggle	15 A	1-Pole	Hubbell	—	—	—	—	—	—	HBL1201PL	**5Z735**	—	—
	15 A	3-Way	Hubbell	—	—	—	—	—	—	HBL1203PL	**5Z736**	—	—
	20 A	1-Pole	Bryant	—	—	—	—	—	—	4901PLC120	**49YZ62** *	—	—
	20 A	1-Pole	Bryant	—	—	—	—	—	—	4901PLR120	**52HE62**	—	—
	20 A	1-Pole	Hubbell	—	—	—	—	—	—	HBL1221PL	**5Z737**	—	—
	20 A	3-Way	Hubbell	—	—	—	—	—	—	HBL1223PL	**5Z738**	—	—
	20 A	3-Way	Bryant	—	—	—	—	—	—	4903PLR120	**52HE73**	—	—
	20 A	3-Way	Bryant	—	—	—	—	—	—	4903PLC120	**49YZ67** *	—	—

*** Clear toggle handle.***

5Z728

Locking Wall Switches

- 1 key included
- 120 to 277VAC
- Back and side wired

Amps AC	Switch Type	Color	Brand	Item No.
Maintained				
15 A	4-Way	Black	Bryant	**52HE55**
20 A	1-Pole	Black	Hubbell	**5Z728**
	1-Pole	Black	Bryant	**49YZ61**
	2-Pole	Black	Hubbell	**3D363**
	2-Pole	Black	Bryant	**49YZ64**
	2-Pole, 3 Pos.-Ctr. Off	Black	Hubbell	**4D287**
	3-Way	Black	Hubbell	**5Z729**
	4-Way	Black	Hubbell	**3D366**
Momentary				
20 A	1-Pole, 3 Pos.-Ctr. Off	Black	Hubbell	**3D382**
Replacement Key				
—	Key	—	Hubbell	**5Z730**

1-Pole 1TJW6

Barrel Key Locking Switches

1½ HP, 20A, 120/277V. Back- and side-wired with stainless steel face. Tamper-resistant. Authorized access only.

Description	Brand	Item No.
Wall Switch		
1-Pole	Bryant	**52JL80**
1-Pole	Hubbell	**1TJW6**
2-Pole	Bryant	**52HE67**
2-Pole	Hubbell	**1TJW7**
3-Way	Bryant	**52HE74**
3-Way	Hubbell	**1TJW8**
3-Way	Bryant	**52JL82**
4-Way	Hubbell	**1TJW9**
4-Way	Bryant	**52HE79**
Keys For Hbl1221Rkl		
Key For Hbl1221Rkl	Hubbell	**24X957**

Description	Brand	Item No.
Barrel Key Wall Plate		
1-Gang, Hole size .875"	Hubbell	**1TJX2**
1-Gang, Hole size .906"	Legrand	**53CX71**
1-Gang, with On/Off Marks, Hole size .875"	Hubbell	**1TJX1**
2-Gang, Hole size .875"	Hubbell	**1TJX4**
2-Gang, with On/Off Marks, Hole size .875"	Hubbell	**1TJX3**

Pull-Chain Switch

On/Off SPST function. For use with lamp fixtures. See Grainger.com® for more switch options.

Mounting Hole	AC Contact Rating	Item No.
¼ in dia	3A @ 250V AC, 6A @ 125V AC	**49YK47**

3D189 Flanged Inlet

3DZP6 Flanged Receptacle

Flanged Inlets and Receptacles for Panel Mounting

Amps	NEMA Recep. Config.	Voltage	Color	Weather Resistant	HP	Brand	Item No.
Flanged Inlets							
15 A	5-15P	125V AC	White	No	½ hp	Hubbell	**3D189**
15 A	5-15P	125V AC	Gray	Yes	½ hp	Hubbell	**3D235** *
15 A	5-15R	125V AC	White	No	½ hp	Bryant	**49YY60**
15 A	6-15R	250V AC	White	No	1 ½ hp	Hubbell	**3D931**
20 A	5-20P	125V AC	White	No	1 hp	Hubbell	**3D209**
20 A	6-20R	250V AC	White	No	2 hp	Hubbell	**3D911**
Flanged Receptacles							
15 A	5-15R	125V AC	White	No	½ hp	Hubbell	**5Z875**
15 A	5-15R	125V AC	Brown	No	½ hp	Hubbell	**3D186**
15 A	6-15R	250V AC	White	No	1 ½ hp	Bryant	**49YY62**
20 A	5-20R	125V AC	White	No	1 hp	Hubbell	**3DZP6**
20 A	6-20R	250V AC	White	No	2 hp	Hubbell	**3D912**

** Includes hinged cover.*

49YZ82

49YZ81

Straight-Blade Combination Devices

See Grainger.com® for more options.

Amps	Wiring Combination	BROWN Item No.	IVORY Item No.	WHITE Item No.
15 A	Switch/Receptacle	**49YZ79**	**49YZ80**	**49YZ81**
15 A	Switch/Pilot Light	**49YZ82**	**49YL67**	**49YL69**

39EA17

Self-Testing GFCI Receptacles

- 125VAC
- LED indicator

Devices protect personnel from shock hazards that can occur in electrical appliances and tools, especially in wet and damp locations. They meet new UL requirements by automatically monitoring ground fault circuit interrupting functionality every 3 hours or less. UL Listed (943 Class A for GFCIs, 498 for Receptacles) and CSA Certified.

Amps	NEMA Recep. Config.	Tamper Resistant	Weather Resistant	Special Features	Brand	Mfr. Model	Pkg. Qty.	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	LIGHT ALMOND Item No.	RED Item No.	WHITE Item No.
GFCI Receptacle, Commercial Environments														
15 A	5-15R	No	No	—	Bryant	GFRST153	3	—	—	—	**52HF43**	**52HF45**	—	**52HF44**
	5-15R	No	No	—	Bryant	GF15	1	—	—	—	**483P62**	**483P64**	—	**483P63**
	5-15R	No	No	—	Hubbell	GFSPST15	1	—	—	—	**45UE92**	—	—	**45UE94**
	5-15R	No	Yes	—	Hubbell	GFWRST15	1	**45UF45**	**45UF48**	**45UF46**	**45UF47**	—	**45UF50**	**45UF51**
	5-15R	Yes	No	—	Bryant	GFTRST153	3	—	—	—	**52HF49**	**52HF51**	—	**52HF50**
	5-15R	Yes	No	—	Bryant	GFT15	1	—	—	—	**483P68**	**483P70**	—	**483P69**
	5-15R	Yes	No	—	Hubbell	GFTRST15	1	**45UF29**	**45UF32**	**45UF30**	**45UF31**	—	**45UF34**	**45UF35**
	5-15R	Yes	Yes	—	Hubbell	GFTWRST15	1	**39EA72**	**39EA70**	**39EA73**	**39EA74**	—	**39EA76**	**39EA77**
	5-15R	Yes	Yes	—	Hubbell	GFTWRST15SNAP	1	—	**45UE28**	—	—	—	—	**45UE35**
20 A	5-20R	No	No	—	Bryant	GFRST203	3	—	—	—	**52HF46**	**52HF48**	—	**52HF47**
	5-20R	No	No	—	Bryant	GF20	1	—	—	—	**483P65**	**483P67**	—	**483P66**
	No Configuration	No	No	—	Hubbell	GFBFST20	1	**39EA27**	**39EA30**	**39EA28**	**39EA29**	—	**39EA31**	**39EA32**
	5-20R	No	Yes	—	Hubbell	GFWRST20	1	**45UF53**	**45UF56**	**45UF54**	—	—	**45UF58**	**45UF59**
	5-20R	Yes	No	—	Bryant	GFTRST203	3	—	—	—	**52HF40**	**52HF42**	—	**52HF41**
	5-20R	Yes	No	—	Bryant	GFT20	1	—	—	—	**483P59**	**483P61**	—	**483P60**
	5-20R	Yes	No	—	Hubbell	GFTRST20	1	**45UF37**	**45UF40**	**45UF38**	**45UF39**	—	**45UF42**	**45UF43**
	5-20R	Yes	No	Nightlight	Hubbell	GFTRST20NL	1	**45UE85**	—	—	**45UE87**	—	—	**45UE91**
	5-20R	Yes	Yes	—	Hubbell	GFTWRST20	1	**39EA80**	**39EA78**	**39EA81**	**39EA82**	—	**39EA84**	**39EA85**
GFCI Receptacle, General Purpose														
15 A	5-15R	No	No	—	—	—	1	—	—	—	**492P65**	—	—	**492P64**
	5-15R	Yes	No	—	—	—	1	—	—	—	**492P66**	—	—	**492P67**
20 A	5-15R	Yes	No	—	—	—	1	—	—	—	**492P68**	—	—	**492P69**
GFCI Receptacle, Industrial Environments														
15 A	5-15R	No	No	—	Hubbell	GFRST15	1	**39EA15**	**39EA18**	**39EA16**	**39EA17**	—	**39EA19**	**39EA20**
	5-15R	No	No	Nightlight	Hubbell	GFRST15NL	1	**45UE61**	**45UE64**	—	—	—	—	**45UE67**
	5-15R	Yes	Yes	1 Nylon and SS Wall Plate	Hubbell	GF5262SG	1	**21VK82**	**21VK81**	**21VK83**	**21VK84**	—	**21VK85**	**21VK86**
20 A	5-20R	No	No	—	Hubbell	GFRST20	1	**39EA21**	**39EA24**	**39EA22**	**39EA23**	—	**39EA25**	**39EA26**
	5-20R	Yes	Yes	1 Nylon and SS Wall Plate	Hubbell	GF5362SG	1	**21VK88**	**21VK87**	**21VK89**	**21VK90**	—	**21VK91**	**21VK92**

BRYANT® HUBBELL® Wiring Device-Kellems
legrand®

Straight-Blade 15 and 20A Receptacles

2HDZ9

1X988

6A667

5A079

Amps	NEMA Recep. Config.	Outlet Type	Tamper Resistant	Weather Resistant	Wiring Method	Voltage	Brand	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	RED Item No.	WHITE Item No.
Straight Blade Receptacle, Commercial Environments													
15 A	5-15R	Standard Duplex	No	No	Side	125V AC	Hubbell	**2LBR8**	**1XC03**	**5Z836**	**6A670**	—	**5Z834**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	**2HDW9**	**2HDW8**	**2HDX1**	**2HDX2**	**49YK90**	**2HDX3**
	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	**2HEA3**	**2HEA2**	**2HEA4**	**2HEA5**	—	**2HEA6**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	**52HD55**	**52HD54**	**52HD59**	**49YZ15**	—	**52HD65**
	5-15R	Standard Duplex	No	No	Side	125V AC	Bryant	**52HD81**	**49YZ20**	**52HD83**	**52HD85**	—	**52HD87**
	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Bryant	**52HD57**	**52HD66**	**52HD61**	**52HD63**	—	**52HD68**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	—	**49YL38**	**49YL35**	**49YL08**	—	**49YK77**
	5-15R	Standard Duplex	No	No	Side	125V AC	Bryant	—	—	**52HD75**	**52HD74**	—	**52HD76**
	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Legrand	—	—	**53CX51**	—	—	**53CX52**
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	**2HDZ2**	**2HDZ1**	**2HDZ3**	**2HDZ4**	**49YK82**	**2HDZ5**
	5-15R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Hubbell	**2HEC4**	—	**2HEC5**	**2HEC6**	—	**2HEC7**
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	**49YL30**	**49YL25**	**49YL37**	**49YL24**	—	**49YL06**
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	**49YK69**	**49YK78**	**49YK93**	**49YK71**	**49YK89**	**49YK72**
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	**49YL18**	**49YK80**	**49YL33**	**49YK74**	**49YL04**	**49YK91**
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Bryant	**52HD56**	**49YZ16**	**52HD60**	—	—	**52HD67**
	5-15R	Standard Duplex	Yes	No	Side	125V AC	Bryant	**52HD82**	**49YZ21**	**52HD84**	**52HD86**	—	**49YZ22**
	5-15R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Bryant	**52HD58**	—	**49YZ14**	**52HD64**	—	**52HD69**
	5-15R	Standard Duplex	Yes	No	Side	125V AC	Hubbell	**2HDY1**	**2HDX9**	—	**2HDY3**	—	—
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	—	—	**49YL27**	—	—	**49YK96**
	5-15R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	—	**49YL34**	**49YL15**
	5-15R	Single	Yes	No	Back and Side	125V AC	Legrand	—	**53CX72**	—	**53CX73**	—	**53CX74**
	5-15R	Quad	No	No	Back	125V AC	Hubbell	**3D744**	—	**3D745**	**6C562**	—	—
	5-15R	Quad	No	No	Back and Side	125V AC	Bryant	**52HC35**	**52HC39**	**52HC36**	**52HC42**	—	**52HC43**
	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	Bryant	**52HD97**	**49YZ25**	**52HD99**	**52HE02**	—	**52HE04**
	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	Hubbell	**3DVU3**	**3DVU1**	**3DVU4**	**3DVU5**	—	**3DVU7**
	5-15R	Decorator Duplex	Yes	No	Back and Side	125V AC	Bryant	**52HD98**	**49YZ26**	**52HE01**	**52HE03**	—	**52HE05**
	5-15R	Decorator Duplex	Yes	No	Back and Side	125V AC	Hubbell	—	—	—	**437K34**	—	**4FTZ4**
20 A	5-20R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	**2HEA8**	**2HEA7**	**2HEA9**	**2HEC1**	—	**2HEC2**
	5-20R	Standard Duplex	No	No	Side	125V AC	Hubbell	**2LBR9**	**1XC04**	**5Z837**	**6A671**	—	**5Z835**
	5-20R	Standard Duplex	No	No	Side	125V AC	Bryant	—	—	**52HD79**	**52HD78**	—	**52HD80**
	5-20R	Standard Duplex	No	No	Modular	125V AC	Hubbell	—	—	—	**49YL01**	**49YL22**	**49YL17**
	5-20R	Standard Duplex	No	No	Side	125V AC	Bryant	**52HD88**	**49YZ23**	**52HD90**	**52HD92**	—	**52HD94**
	5-20R	Standard Duplex	Yes	No	Side	125V AC	Bryant	**52HD89**	**49YZ24**	**52HD91**	**52HD93**	—	**52HD95**
	5-20R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Hubbell	**2HEC9**	**2HEC8**	**2HED1**	**2HED2**	—	**2HED3**
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	**49YL19**	**49YL03**	**49YK88**	**49YK70**	**49YK84**	**49YK76**
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	—	**49YL23**	**49YL07**	**49YL09**	—	**49YK98**
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Bryant	—	**49YZ17**	**52HD70**	**52HD72**	—	**52HD73**
	5-20R	Standard Duplex	Yes	Yes	Back and Side	125V AC	Bryant	—	**49YZ18**	**52HD71**	—	—	—
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	**49YK68**	**49YK83**	**49YK67**	**49YK63**	**49YK60**	**49YK62**
	5-20R	Standard Duplex	Yes	No	Side	125V AC	Hubbell	—	—	**2HDY7**	**2HDY8**	—	**2HDY9**
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	Hubbell	**49YL10**	**2HDZ6**	**2HDZ8**	**2HDZ9**	—	**2HEA1**
	5-20R	Standard Duplex	Yes	No	Modular	125V AC	Hubbell	—	—	—	**49YK73**	**49YK87**	**49YK94**
	5-20R	Single	Yes	No	Back and Side	125V AC	Legrand	—	**53CX75**	—	**53CX76**	—	**53CX77**
	5-20R	Quad	No	No	Back and Side	125V AC	Bryant	**52HC45**	**52HC44**	**52HC46**	—	—	**52HC52**
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	Bryant	**52HE07**	**49YZ27**	**52HE09**	**52HE11**	—	**52HE14**
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	Hubbell	**3DVX1**	**3DVU8**	**3DVX2**	**3DVX3**	—	**3DVX5**
	5-20R	Decorator Duplex	Yes	No	Back and Side	125V AC	Hubbell	**4FTZ5**	**4FTZ8**	**4FTZ6**	**4FTZ7**	—	**4FTZ9**
	5-20R	Decorator Duplex	Yes	No	Push and Side	125V AC	Legrand	**56FN07**	**56FN08**	**56FN09**	—	—	**56FN12**
	5-20R	Decorator Duplex	Yes	No	Back and Side	125V AC	Bryant	**52HE08**	**49YZ28**	**52HE10**	**52HE12**	—	**52HE15**
Straight Blade Receptacle, General Purpose													
15 A	5-15R	Standard Duplex	Yes	No	Push and Side	125V AC	Hubbell	—	**55MU59**	—	**55MU58**	—	**55MU56**
20 A	5-20R	Single	No	No	Side	125V AC	Bryant	—	**49YZ30**	—	**49YK61**	—	**52HE18**
Straight Blade Receptacle, Heavy Use Industrial/Harsh Environments													
15 A	5-15R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	**2HED6**	**2HEE1**	**2HED7**	**2HED8**	**2HED9**	**2HEE2**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	—	**6A666**	**6C599**	**6A667**	—	**6C600**
	5-15R	Single	No	No	Back and Side	125V AC	Hubbell	**2WMT4**	**1X987**	—	**5Z813**	—	—
20 A	5-20R	Standard Duplex	No	Yes	Back and Side	125V AC	Hubbell	**2HEE6**	**2HEF1**	**2HEE7**	**2HEE8**	**2HEE9**	**2HEF2**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	**2LBW2**	**6A668**	**6C606**	**6A669**	**3D902**	**6C607**
	5-20R	Single	No	Yes	Back and Side	125V AC	Hubbell	—	**2HEE5**	**2HEE3**	**2HEE4**	—	—
	5-20R	Single	No	No	Back and Side	125V AC	Hubbell	—	**1X988**	**2WMT3**	**5Z814**	—	**2WMT2**
	6-20R	Standard Duplex	No	No	Back and Side	250V AC	Hubbell	—	**1X990**	**2LBW5**	**3D212**	—	—
	6-20R	Single	No	No	Back and Side	250V AC	Hubbell	—	**1X989**	—	**5Z833**	—	—
Straight Blade Receptacle, Industrial Environments													
15 A	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	**52HC56**	**52HC58**	**52HC57**	**49YY70**	**52HC59**	**52HC60**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	**3D858**	**5A079**	**6C597**	**4A252**	**2LBV8**	**3D185**
	6-15R	Standard Duplex	No	No	Back and Side	250V AC	Hubbell	—	**1X994**	—	**3D220**	—	—
	6-15R	Single	No	No	Back and Side	250V AC	Hubbell	—	**1X993**	—	**5Z832**	—	—
20 A	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Bryant	**52HC68**	**52HC70**	**52HC69**	**49YY73**	**52HC71**	**52HC72**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Hubbell	**2LBV9**	**5A085**	**6C604**	**4A257**	**2LBW1**	**3D206**
	5-20R	Single	No	No	Back and Side	125V AC	Bryant	—	**52HC25**	**52HC62**	**49YY71**	**52HC65**	**52HC66**

** Arc fault rated.*

4-PLEX® Receptacles

HUBBELL® Wiring Device-Kellems

- 125VAC

Adapter plates flush mount 4-PLEX receptacles to 1- or 2-gang device boxes or 4"-square boxes. Portable boxes include cord grip for up to 0.66" dia. cord.

Amps	NEMA Recep. Config.	Surge Suppression	Mfr. Model	BROWN Item No.	WHITE Item No.	IVORY Item No.	RED Item No.	ORANGE Item No.
Commercial								
15 A	5-15R	No	HBL415	**6C559**	**3D134**	—	—	—
20 A	5-20R	No	HBL420	**6C565**	**3D142**	**6C568**	—	—
Hospital Grade								
15 A	5-15R	No	HBL415H	**6C560**	—	**6C561**	—	—
20 A	5-20R	No	HBL420H	**6C566**	—	**6C567**	**3D760**	—
Accessories								
Adapter Plates			HBL4AP	**6C586**	**3D172**	**6C587**	—	**6C588**
Adapter Boxs			HBL4PB	**6C589**	—	**6C590**	—	—

20-Amp Hospital Grade 6C567

Scan. Order. Done.
Details on page A1.

Surge Suppression Receptacles

HUBBELL Wiring Device-Kellems ® BRYANT®

6C132

- 125V
- Power On indicator light

Provide point-of-use protection that can cause premature electronic equipment failure. Audible alarm alerts occupants when device needs replacement. Features a high-impact, nylon face that resists damage. Isolated ground-grade models protect equipment from effects of noise on the ground circuit. For use in accordance with NEC/NFPA Article 250-74, Exception 2. UL Listed and CSA Certified.

Amps	NEMA Recep. Config.	Application Environment	Special Features	Mfr. Model	BLUE Item No.	IVORY Item No.	ORANGE Item No.
Hubbell Wiring Device-Kellems							
15 A	5-15R	Commercial	—	HBL5260SA	**3D184**	**3D183**	—
15 A	5-15R	Harsh and Heavy Use Industrial	Audible Alarm	HBL5262SA	**6C132**	—	—
15 A	5-15R	Industrial	Audible Alarm	IG5262SA	**6C134**	—	—
20 A	5-20R	Commercial	—	HBL5360SA	**3D205**	**3D204**	—
20 A	5-20R	Harsh and Heavy Use Industrial	Audible Alarm	HBL5362SA	**6C133**	**6C605**	—
20 A	5-20R	Hospital Grade	Audible Alarm	HBL8362SA	**6C136**	**3D287**	—
20 A	5-20R	Hospital Grade	Audible Alarm	IG8362SA	**3D407**	**4D331**	—
20 A	5-20R	Industrial	Audible Alarm	IG5362SA	**6C135**	—	—
Bryant							
15 A	5-15R	Commercial	Audible Alarm	SP52A	**49YZ33**	**52HE21**	—
15 A	5-15R	Hospital Grade	Audible Alarm	SP82A	**49YZ36**	**52HE25**	—
15 A	5-15R	Hospital Grade	Audible Alarm	SP82IGA	**49YZ37**	**52HE26**	**52HE27**
20 A	5-20R	Commercial	Audible Alarm	SP53A	**49YZ34**	**52HE23**	—
20 A	5-20R	Commercial	Audible Alarm	SP53IGA	**49YZ35**	**52HE24**	—
20 A	5-20R	Hospital Grade	Audible Alarm	SP83A	**49YZ38**	**52HE31**	—
20 A	5-20R	Hospital Grade	Audible Alarm	SP83IGA	**49YZ39**	**52HE33**	**52HE34**

Isolated Ground Receptacles

HUBBELL Wiring Device-Kellems ® BRYANT®

4FTW7

3D400

- 125V

Insulation-barrier construction isolates ground contacts from mounting strap for a noise-free ground. Reinforced thermoplastic polyester base with impact-resistant nylon face. For use in accordance with NEC/NFPA Article 250-74, Exception 4.

Amps	NEMA Recep. Config.	Outlet Type	Description	Brand	Mfr. Model	GRAY Item No.	IVORY Item No.	LIGHT ALMOND Item No.	ORANGE Item No.	RED Item No.	WHITE Item No.
Commercial											
15 A	5-15R	Standard Duplex	Smooth	Hubbell	IG15CR	—	**4ENH5**	—	**4ENH2**	—	**4ENH7**
15 A	5-15R	Standard Duplex	—	Bryant	CR15IG	—	—	—	**49YZ19**	—	—
15 A	5-15R	Decorator Duplex	—	Hubbell	IG15DR	**4ENJ1**	**4ENJ2**	—	—	—	**4ENJ4**
20 A	5-20R	Standard Duplex	Smooth	Hubbell	IG20CR	**4FTW5**	**4FTW6**	**4FTW7**	**4ENJ5**	—	**4FTW8**
20 A	5-20R	Decorator Duplex	—	Hubbell	IG20DR	—	**4FTX3**	—	—	—	**4FTX5**
Harsh and Heavy Use Industrial											
15 A	5-15R	Standard Duplex	—	Bryant	BRY5262G	**52HD11**	—	—	**49YZ03**	—	**52HD13**
15 A	5-15R	Standard Duplex	—	Bryant	BRY5262GI	—	**52HD12**	—	—	—	—
20 A	5-20R	Standard Duplex	—	Bryant	BRY5362IG	—	**52HD25**	—	**49YZ05**	—	—
Industrial											
15 A	5-15R	Standard Duplex	—	Hubbell	IG5262	**3D401**	—	—	**5A075**	**49YK86**	—
15 A	5-15R	Single	—	Hubbell	IG5261	—	—	—	**3D400**	—	—
15 A	5-15R	Single	—	Bryant	5261IG	—	—	—	**49YY68**	—	—
20 A	5-20R	Standard Duplex	—	Hubbell	IG5362	—	**3D406**	—	**5A083**	—	—
20 A	5-20R	Standard Duplex	Smooth	Hubbell	IG5352	**4FTY5**	**4FTY6**	**4FTY7**	**4FTY3**	—	**4FTY8**
20 A	5-20R	Single	—	Bryant	5361IG	—	—	—	**49YY72**	—	—
20 A	5-20R	Single	—	Hubbell	IG5361	—	—	—	**3D404**	—	—

USB Charger Tamper-Resistant Receptacles

HUBBELL Wiring Device-Kellems ® legrand®

437K89

437K70

- 125VAC
- LED indicates USB power
- USB charging 5.0A @ 5VDC

Devices combine USB DC power and tamper-resistant AC electrical power in a standard single-gang opening, so you can charge personal electronics and power appliances from the same receptacle. Back and side wire for solid or stranded wire. UL and C-UL Listed.

Amps	NEMA Recep. Config.	Outlet Type	No. of USB Ports	USB Connector	Brand	BROWN Item No.	BLACK Item No.	GRAY Item No.	IVORY Item No.	WHITE Item No.	RED Item No.
USB Charger Receptacle, Commercial Environments											
15	5-15R	Decorator Duplex	2	Type A	Hubbell	**437K36**	**437K37**	**437K38**	**437K39**	**437K40**	—
	5-15R	Decorator Duplex	2	Type A and C	Hubbell	**437K63**	**437K61**	**437K60**	**437K58**	**437K59**	—
	5-15R	Decorator Duplex	2	Type C	Hubbell	**437K87**	**437K85**	**437K84**	**437K82**	**437K83**	**437K86**
20	5-20R	Decorator Duplex	2	Type A	Hubbell	**437K41**	**437K42**	**437K43**	**437K44**	**437K45**	—
	5-20R	Decorator Duplex	2	Type A and C	Hubbell	**437K69**	**437K67**	**437K66**	**437K64**	**437K65**	—
	5-20R	Decorator Duplex	2	Type C	Hubbell	**437K93**	**437K91**	**437K90**	**437K88**	**437K89**	**437K92**
USB Charger Receptacle, General Purpose											
15	5-15R	Decorator Duplex	2	Type A and C	Legrand	**56FM95**	**56FM94**	**56FM96**	—	**56FM99**	—
USB Charger Receptacle, Hospital Grade											
15	5-15R	Decorator Duplex	2	Type A	Hubbell	**437K46**	**437K47**	**437K48**	**437K49**	**437K51**	**437K50**
	5-15R	Decorator Duplex	2	Type C	Hubbell	**437K99**	**437K97**	**437K96**	**437K94**	**437K95**	**437K98**
	5-15R	Decorator Duplex	2	Type A and C	Hubbell	**437K75**	**437K73**	**437K72**	**437K70**	**437K71**	**437K74**
20	5-20R	Decorator Duplex	2	Type A and C	Hubbell	**437K81**	**437K79**	**437K78**	**437K76**	**437K77**	**437K80**
	5-20R	Decorator Duplex	2	Type C	Hubbell	**437L06**	**437L04**	**437L03**	**437L01**	**437L02**	**437L05**
	5-20R	Decorator Duplex	2	Type A	Hubbell	**437K52**	**437K53**	**437K54**	**437K55**	**437K57**	**437K56**

5Z841

5Z893

HUBBELL Wiring Device-Kellems ® BRYANT®

High-Ampere Receptacles

UL Listed and CSA Certified.

* See page 326 for NEMA plug configurations.

Amps	NEMA Recep. Config.*	No. of Poles	No. of Wires	Voltage	HUBBELL Mfr. Model	HUBBELL Item No.	BRYANT Mfr. Model	BRYANT Item No.
20 A	10-20R	3	3	250V AC	HBL6810	**5Z839**	9326	**49YY66**
	14-20R	3	4	125/250V AC	HBL8410	**6C630**	—	—
	15-20R	3	4	250V AC	HBL8420	**5C793**	—	—
30 A	5-30R	2	3	125V AC	HBL9308	**5Z904**	9530FR	**49YY94**
	6-30R	2	3	250V AC	HBL9330	**5Z895**	9630FR	**49YY96**
	10-30R	3	3	125/250V AC	HBL9350	**5Z841**	9303	**49YY64**
	14-30R	3	4	125/250V AC	HBL9430A	**5Z883**	9430FR	**49YY92**
	15-30R	3	4	250V AC	HBL8430A	**5Z889**	8430FR	**49YY88**
	TT-30R	2	3	125V AC	HBLTT30R	**54DY13**	—	—
50 A	5-50R	2	3	125V AC	HBL9360	**5Z896**	9550FR	**49YY95**
	6-50R	2	3	250V AC	HBL9367	**5Z897**	9650FR	**49YY97**
	10-50R	3	3	125/250V AC	HBL7962	**5Z840**	9306	**49YY65**
	14-50R	3	4	125/250V AC	HBL9450A	**5Z885**	9450FR	**49YY93**
	15-50R	3	4	250V AC	HBL8450A	**5Z891**	8450FR	**49YY89**
60 A	14-60R	3	4	250V AC	HBL9460A	**5Z887**	—	—
	15-60R	3	4	250V AC	HBL8460A	**5Z893**	8460FR	**49YY90**
	18-60R	3	4	120/208V AC	HBL7301A	**3D240**	8360FR	**49YY87**

BRYANT® HUBBELL® Wiring Device-Kellems

Hospital Grade Receptacles

These hospital grade receptacles are designed to withstand the severe conditions unique to hospital environments. Nickel-plated bypass contacts help increase contact pressure and lower operating temperature. Four-point grounding system provides redundant grounding for low resistance ground continuity, and thermoplastic polyester (RTP) back is tough and heat-resistant.

Note: To quality for the hospital grade designation and use of the green dot symbol, UL requires product performance to specific levels. These levels form an established baseline below which no manufacturer can fall and still carry a green dot.

52HD38

5A078

Amps	NEMA Recep. Config.	Outlet Type	Tamper Resistant	Weather Resistant	Wiring Method	Voltage	Special Features	Brand	BLACK Item No.	BROWN Item No.	GRAY Item No.	IVORY Item No.	ORANGE Item No.	RED Item No.	WHITE Item No.
Straight Blade Receptacle, Hospital Grade															
15 A	5-15R	Standard Duplex	No	No	Back and Side	125V AC	—	Bryant	—	—	—	**52HC77**	—	**52HC79**	—
	5-15R	Standard Duplex	Yes	No	Back and Side	125V AC	—	Bryant	—	**52HC80**	—	**52HC78**	—	—	—
	5-15R	Single	No	No	Back and Side	125V AC	—	Bryant	—	**52HC32**	—	**49YY75**	—	—	—
	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	—	Bryant	—	**49YY63**	**52HC92**	**52HC93**	—	**52HC94**	**52HC95**
20 A	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Bryant	—	**49YY76**	**49YY77**	**49YY78**	**49YY91**	**49YY81**	**49YY84**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Illuminated	Bryant	—	—	—	**49YY79**	—	**49YY82**	**49YY85**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	—	—	—	**30CZ68** †	—
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	—	Bryant	—	**49YY83**	—	**52HC86**	—	**52HC87**	**52HC88**
	5-20R	Standard Duplex	Yes	No	Back and Side	125V AC	—	Hubbell	—	—	—	—	—	**30CZ73** †	—
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	**49YL02**	**52HF28**	—	**49YK59**	**49YK75**
Straight Blade Receptacle, Heavy Use Hospital Grade															
15 A	5-15R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	**1XC01**	**5Z825**	**5A078**	**5Z827**	**5Z823**	**3D285**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	—	Bryant	—	**49YZ06**	**52HD38**	**52HD41**	**49YZ07**	**52HD43**	**52HD46**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	Illuminated	Hubbell	—	—	**2LBX2**	**3D283**	—	**3D284**	**2LBX3**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	**4D035**	**4D036**	—	**4D038**	**4D040**
	5-15R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	—	—	—	**2LBY5**	—
	5-15R	Standard Duplex	Yes	No	Wire Lead	125V AC	—	Bryant	—	—	**52HD40**	—	—	**52HD45**	**52HD48**
	5-15R	Standard Duplex	Yes	No	Wire Lead	125V AC	—	Hubbell	—	**6C656**	**3D453**	**5Z829**	—	**3D454**	**3D455**
	5-15R	Single	No	No	Back and Side	125V AC	—	Hubbell	—	—	**2LBX4**	**3D286**	—	**4D045**	**2LBX5**
20 A	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Bryant	—	**49YZ09**	**52HD49**	—	**49YZ10**	—	**52HD52**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	**4D056**	**4D057**	**4D058**	—	**16R066**	**3D288**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	Illuminated	Hubbell	—	—	**2LBX7**	**3D289**	—	**3D290**	**2LBX8**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	**1XC02**	**5Z826**	**5A084**	**5Z828**	**5Z824**	**3D291**
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	—	—	—	**4D059** *	—
	5-20R	Standard Duplex	No	No	Back and Side	125V AC	—	Hubbell	—	—	—	—	—	**2LBY6**	—
	5-20R	Standard Duplex	Yes	No	Wire Lead	125V AC	—	Hubbell	—	**4CV77**	**4CV78**	**4CV79**	—	**4CV80**	**4CV81**
	5-20R	Single	No	No	Back and Side	125V AC	—	Hubbell	—	**5Z822**	**2LBX9**	**3D292**	—	**3D293**	**4D065**
	6-20R	Standard Duplex	No	No	Back and Side	250V AC	—	Hubbell	—	—	—	**4D076**	—	—	—
GFCI Receptacle, Heavy Use Hospital Grade															
15 A	5-15R	Decorator Duplex	No	No	Back and Side	125V AC	—	Hubbell	**39EA33**	**39EA36**	**39EA34**	**39EA35**	—	**39EA37**	**39EA38**
	5-15R	Decorator Duplex	No	No	Modular	125V AC	—	Hubbell	—	—	—	**45UD97**	—	**45UD99**	**45UE01**
	5-15R	Decorator Duplex	Yes	Yes	Modular	125V AC	—	Hubbell	—	—	—	**45UE48**	—	**45UE50**	—
	5-15R	Decorator Duplex	Yes	Yes	Back and Side	125V AC	—	Hubbell	**39EA46**	**39EA49**	**39EA47**	**39EA48**	—	**39EA51**	**39EA52**
	5-15R	Decorator Duplex	Yes	No	Back and Side	125V AC	Nightlight	Hubbell	**45UG10**	**45UG13**	**45UG11**	**45UG12**	—	**45UG15**	**45UG16**
20 A	5-20R	Decorator Duplex	No	No	Modular	125V AC	—	Hubbell	**45UE22**	**45UE20**	**45UE23**	**45UE24**	—	**45UE26**	**45UE27**
	5-20R	Decorator Duplex	No	No	Back and Side	125V AC	—	Hubbell	**39EA39**	**39EA42**	**39EA40**	**39EA41**	—	**39EA43**	**39EA44**
	5-20R	Decorator Duplex	Yes	No	Back and Side	125V AC	Nightlight	Hubbell	**45UG18**	**45UG21**	**45UG19**	**45UG20**	—	**45UG23**	**45UG24**
	5-20R	Decorator Duplex	Yes	Yes	Back and Side	125V AC	—	Hubbell	**39EA54**	**39EA57**	**39EA55**	**39EA56**	—	**39EA59**	**39EA60**

***** Slender/compact version. † Includes green LED power indicators.*

31A355

31A336

31A326

HUBBELL® Wiring Device-Kellems

SNAPConnect II Wiring Devices

Suitable for use in commercial construction and in healthcare applications. Great for installations with potential for frequent device change-outs. Additional hospital grade versions are available; see Grainger.com. UL Listed and CSA Certified.

Note: SNAPConnect II is not compatible with SNAPConnect. Please check Mfr. Model number before ordering.

SWITCHES

Feature an abuse-resistant thermoplastic rocker for heavy-duty applications. Design eliminates exposed energized parts. Stainless steel autoground clip. Illuminated Switches have light On with load Off. Pilot Light Switches have light On with load On. 120 to 277VAC.

RECEPTACLES

Abuse-resistant nylon for heavy-duty applications. SNAPConnect feature eliminates exposed energized parts. Stainless steel autoground clip. 120VAC.

PIGTAILED CONNECTORS

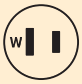
1-phase, 2-pole, 3-wire clear polycarbonate pigtails are made for use with the devices listed, and are required for all switches and receptacles.

Amps AC	Switch Type	Switch Style	Mfr. Model	WHITE Item No.	RED Item No.	IVORY Item No.	BLACK Item No.
Wall Switch							
15 A	1-Pole	Toggle	SNAP1201_NA	**31A352**	**31A413**	**31A350**	**31A410**
	3-Way	Toggle	SNAP1203_NA	**31A354**	—	**31A353**	**31A415**
20 A	1-Pole	Toggle	SNAP1221_NA	**31A357**	**31A422**	**31A355**	**31A420**
	1-Pole	Rocker	SNAP2121_NA	—	—	**31A468**	**31A465**
Pilot Light Wall Switch							
15 A	1-Pole	Toggle	SNAP1201PL_NA	**31A433**	**31A432**	**31A431**	**31A430**
	1-Pole	Rocker	SNAP2101PL_NA	—	—	—	**31A452**
20 A	1-Pole	Toggle	SNAP1221PL_NA	**31A447**	**31A446**	**31A445**	**31A444**
	1-Pole	Rocker	SNAP2121PL_NA	**31A479**	—	**31A477**	—
Illuminated Wall Switch							
15 A	1-Pole	Toggle	SNAP1201IL_NA	**31A362**	**31A429**	**31A361**	**31A428**
	1-Pole	Rocker	SNAP2101IL_NA	**31A451**	—	—	**31A448**
	3-Way	Toggle	SNAP1203IL_NA	**31A440**	—	—	—
20 A	1-Pole	Toggle	SNAP1221IL_NA	**31A460**	**31A443**	**31A442**	—

Amps	NEMA Recep. Config.	Tamper Resistant	Weather Resistant	Mfr. Model	WHITE Item No.	RED Item No.	IVORY Item No.	BROWN Item No.
Receptacles								
15 A	5-15R	No	No	SNAP5262A	**31A338**	—	**31A336**	—
Receptacles, Self Testing								
15 A	5-15R	No	No	GFRST15SNAP	**39EA64**	—	**39EA61**	**39EA63**
	5-15R	Yes	Yes	GFTWRST15SNAP	**45UE35**	—	—	**45UE28**
20 A	5-20R	No	No	GFRST20SNAP	**39EA68**	**45UD74**	**39EA65**	**39EA67**
Receptacles								
20 A	5-20R	No	No	SNAP5362A	—	—	**31A339**	**31A392**
	5-20R	Yes	No	SNAP8300ITA	—	—	**49YK63**	—
Receptacles, Self Testing								
20 A	5-20R	Yes	Yes	GFTWRST20SNAP	—	—	**45UE40**	**45UE36**

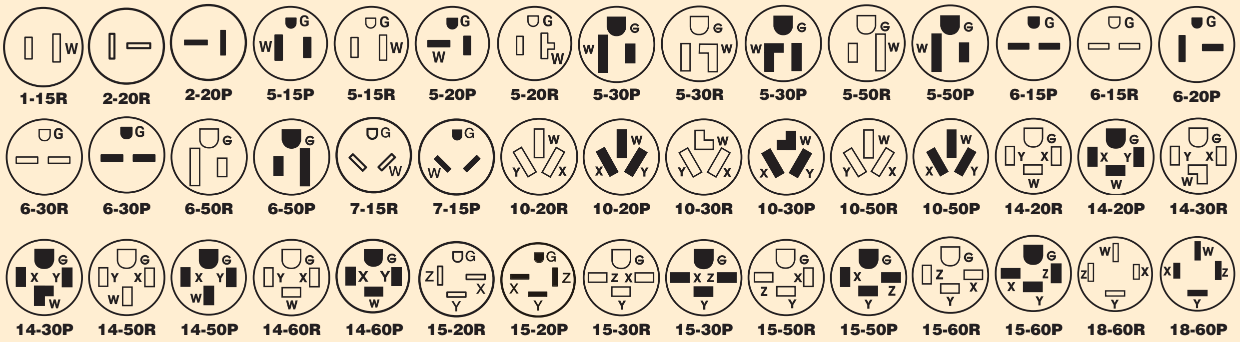
Description	Mfr. Model	SOLID WIRE Item No.	STRANDED WIRE Item No.
Pigtail Connectors for 15 or 20A Devices, 6" Leads			
Receptacles	SNAP_RA	**31A326**	—
Receptacles, Buy American Compliant	SNAP_RNA	**31A380**	**31A381**
Single Pole Switches	SNAPSP_NA	**31A348**	**31A349**
3-Way Switches	SNAP3W_NA	**31A334**	**31A335**
Single Pole Switch with Pilot Light	SNAPSPP_NA	**31A408**	**31A409**

Straight Blade NEMA Configurations



1-15P

The National Electrical Manufacturers Association (NEMA) standardized configurations for single-rated devices were created to minimize the possibility of unsafe mating of unmatched voltages and amperages. The standard also defines dimensional requirements to assist users in selection of the proper product for a particular need. Use the figures below to help identify the correct device for your specific application.



Valise®
1X997

Elastogrip®
1X977

Industrial
49YY48

Insulgrip®
Angle
6A665

Insulgrip®
4A250

Hospital-Grade
5A076

Marine-Rated
3D197

BRYANT® HUBBELL® Wiring Device-Kellems

NEMA 15A and 20A Straight-Blade Plugs and Connectors

NEMA Plug Config.	Amps	Voltage	No. of Poles	No. of Wires	Color	Material	Brand	PLUG Mfr. Model	PLUG Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.
General Grade											
1-15	15 A	125V AC	2	2	Yellow	Nylon	Hubbell	HBL5866VY	**1X997**	HBL5869VY	**5Z882**
5-15	15 A	125V AC	2	3	Yellow	PVC	Hubbell	HBL1447	**5Z867**	HBL1547	**5Z872**
5-15	15 A	125V AC	2	3	Yellow	PVC	Hubbell	HBL14W47	**1X976** *	HBL15W47	**1X977** *
5-20	20 A	125V AC	2	3	Yellow	PVC	Hubbell	HBL1433	**3D008**	HBL1533	**3D010**
5-20	20 A	125V AC	2	3	Yellow	PVC	Hubbell	HBL14W33	**3D009** *	HBL15W33	**3D011** *
7-15	15 A	277V AC	2	3	Brown	Nylon	Hubbell	—	—	HBL5324	**3D889**
Commercial Grade											
5-15	15 A	125V AC	2	3	Black	Nylon	Hubbell	HBL5965VBLK	**3D224**	HBL5969VBLK	**3D225**
5-15	15 A	125V AC	2	3	Gray	Nylon	Hubbell	HBL5965VGY	**3D934**	HBL5969VGY	**2LBX1**
5-15	15 A	125V AC	2	3	Yellow	Nylon	Hubbell	HBL5965VY	**4A253**	HBL5969VY	**4A254**
5-20	20 A	125V AC	2	3	Black	Nylon	Hubbell	HBL5364VBK	**2LBW3**	HBL5369VBK	**2LBW4**
6-15	15 A	250V AC	2	3	Yellow	Nylon	Hubbell	HBL5666VY	**3D221**	HBL5669VY	**2LBW8**
Industrial Grade											
1-15	15 A	125V AC	2	2	Black/White	Nylon	Bryant	9754NS	**49YY48**	—	—
1-15	15 A	125V AC	2	2	Yellow	Nylon	Hubbell	HBL5865VY	**5Z881**	—	—
2-20	20 A	250V AC	2	2	Yellow	Nylon	Hubbell	HBL9758VY	**3D299**	—	—
5-15	15 A	125V AC	2	3	Black	Nylon	Hubbell	HBL5921	**3D222**	—	—
5-15	15 A	125V AC	2	3	Black	Thermoplastic	Bryant	5266B	**49YY31**	5269B	**49YY19**
5-15	15 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL5266CA	**6A665** †	—	—
5-15	15 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL5280C	**3D190** ‡	—	—
5-15	15 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL5266C	**4A250**	HBL5269C	**4A251**
5-15	15 A	125V AC	2	3	Black/White	Nylon	Bryant	BRY5266NP	**49YY49**	BRY5269NC	**49YY22**
5-15	15 A	125V AC	2	3	Yellow	Nylon	Bryant	BRY5965Y	**49YY55**	BRY5969Y	**49YY28**
5-15	15 A	125V AC	2	3	Yellow/White	Nylon/Polymer	Bryant	BRY5266NPCR	**49YY50**	—	—
5-20	20 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL5366C	**4A255**	HBL5369C	**4A256**
5-20	20 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL5366CA	**5Z866** †	—	—
5-20	20 A	125V AC	2	3	Black/White	Nylon	Bryant	BRY5366NP	**49YY51**	BRY5369NC	**49YY24**
5-20	20 A	125V AC	2	3	Yellow	Nylon	Hubbell	HBL5364VY	**3D207**	HBL5369VY	**3D208**
5-20	20 A	125V AC	2	3	Yellow/White	Nylon/Polymer	Bryant	BRY5366NPCR	**49YY52**	—	—
6-15	15 A	250V AC	2	3	Black/White	Nylon	Hubbell	HBL5666C	**1X995**	HBL5669C	**1X996**
6-15	15 A	250V AC	2	3	Black/White	Nylon	Hubbell	HBL5666CA	**5Z879** †	—	—
6-15	15 A	250V AC	2	3	Black/White	Nylon	Bryant	BRY5666NP	**49YY54**	BRY5669NC	**49YY27**
6-15	15 A	250V AC	2	3	Yellow	Nylon	Hubbell	HBL56CM66C	**2LBW9**	—	—
6-20	20 A	250V AC	2	3	Black/White	Nylon	Hubbell	HBL5466CA	**5Z880** †	—	—
6-20	20 A	250V AC	2	3	Black/White	Nylon	Hubbell	HBL5466C	**1X991**	HBL5469C	**1X992**
6-20	20 A	250V AC	2	3	Black/White	Nylon	Bryant	BRY5466NP	**49YY53**	BRY5469NC	**49YY26**
6-20	20 A	250V AC	2	3	Yellow	Nylon	Hubbell	HBL5464VY	**2LBW6**	HBL5469VY	**3D910**
7-15	15 A	277V AC	2	3	Black	Insulprene	Hubbell	HBL5929	**3D223**	—	—
10-2	20 A	125/250V AC	3	3	Black/White	Nylon	Bryant	9151N	**49YY40**	—	—
Hospital Grade											
5-15	15 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL8215C	**5A076**	HBL8219C	**5A077**
5-15	15 A	125V AC	2	3	Transparent	Nylon	Hubbell	HBL8215CT	**6C627**	HBL8219CT	**6C628**
5-15	15 A	125V AC	2	3	Transparent	Polycarbonate	Bryant	8266T	**49YY33**	8269T	**49YY20**
5-15	15 A	125V AC	2	3	White	Nylon	Hubbell	HBL8115V	**5Z871**	HBL8119V	**5Z874**
5-15	15 A	125V AC	2	3	White	Nylon	Bryant	BRY8266NP	**49YY56**	BRY8269NC	**49YY29**
5-15	15 A	125V AC	2	3	White	Polycarbonate	Hubbell	HBL8215CAT	**5Z869** †	—	—
5-15	15 A	125V AC	2	3	White	Polycarbonate	Bryant	8295T	**49YY34** †	—	—
5-20	20 A	125V AC	2	3	Black/White	Nylon	Hubbell	HBL8315C	**5Z868**	HBL8319C	**5Z873**
5-20	20 A	125V AC	2	3	Transparent	Nylon	Hubbell	HBL8315CT	**6C629**	HBL8319CT	**2LBY1**
5-20	20 A	125V AC	2	3	Transparent	Polycarbonate	Bryant	8366T	**49YY36**	8369T	**49YY21**
5-20	20 A	125V AC	2	3	White	Nylon	Hubbell	HBL8364V	**2LBY2**	—	—
5-20	20 A	125V AC	2	3	White	Nylon	Bryant	BRY8366NP	**49YY57**	BRY8369NC	**49YY30**
5-20	20 A	125V AC	2	3	White	Polycarbonate	Hubbell	HBL8315CAT	**5Z870** †	—	—
6-15	15 A	250V AC	2	3	White	Nylon	Hubbell	HBL8666V	**4D080**	—	—
6-20	20 A	250V AC	2	3	White	Nylon	Hubbell	HBL8464V	**2LBY3**	HBL8469V	**2LBY4**
Marine Grade											
5-15	15 A	125V AC	2	3	Yellow	Nylon	Hubbell	HBL52CM66C	**3D197**	HBL52CM69C	**3D198**
5-15	15 A	125V AC	2	3	Yellow/White	Nylon	Bryant	—	—	BRY5269NCSY	**49YY23**
5-20	20 A	125V AC	2	3	Yellow	Nylon	Hubbell	HBL53CM66C	**3D905**	HBL53CM69C	**3D906**
5-20	20 A	125V AC	2	3	Yellow/White	Nylon	Bryant	—	—	BRY5369NCSY	**49YY25**

** Watertight. † Angle plug. ‡ Locking feature.*

High-Ampere Plugs

UL Listed and CSA Certified.

Note: See page 326 for NEMA configurations.

HUBBELL® PLUGS

Heavy-duty cord clamps handle a wide range of cable sizes and hold conductors securely in place. Nylon bodies withstand severe abuse.

4-position angle plugs allow cord to enter from top, bottom, or either side and stay close to wall.

BRYANT® PLUGS

Durable wall construction protects critical wiring from abusive environments. Reinforced thermoplastic polyester provides high impact and heat resistance.

						Straight Plug		Angle Plug	
Amps	No. of Poles	No. of Wires	Voltage	NEMA Plug Config.	Brand	Mfr. Model	Item No.	Mfr. Model	Item No.
20 A	3	3	125/250V AC	10-20P	Hubbell	HBL9977C	**5Z842**	—	—
20 A	3	4	125/250V AC	14-20P	Hubbell	—	—	HBL8411C	**6C631**
20 A	3	4	250V AC	15-20P	Hubbell	—	—	HBL8421C	**5C794**
30 A	2	3	125V AC	5-30P	Hubbell	—	—	HBL9309	**5Z911**
30 A	2	3	125V AC	5-30P	Bryant	9530NP	**49YY44**	—	—
30 A	2	3	250V AC	6-30P	Hubbell	—	—	HBL9331	**5Z985**
30 A	2	3	250V AC	6-30P	Bryant	—	—	9630ANPB	**49YY46**
30 A	3	3	125/250V AC	10-30P	Hubbell	HBL9337C	**5Z843**	HBL9333	**4D086**
30 A	3	4	125/250V AC	14-30P	Bryant	—	—	9432ANPB	**49YY41**
30 A	3	4	125/250V AC	14-30P	Hubbell	HBL9431C	**5Z884**	HBL9432C	**5C790**
30 A	3	4	250V AC	15-30P	Bryant	—	—	8432ANPB	**49YY37**
30 A	3	4	250V AC	15-30P	Hubbell	HBL8431C	**5Z890**	HBL8432C	**5C795**
50 A	2	3	125V AC	5-50P	Hubbell	—	—	HBL9361	**6C118**
50 A	2	3	125V AC	5-50P	Bryant	—	—	9550ANPB	**49YY45**
50 A	2	3	250V AC	6-50P	Hubbell	—	—	HBL9368	**6C119**
50 A	2	3	250V AC	6-50P	Bryant	—	—	9650ANPB	**49YY47**
50 A	3	3	125/250V AC	10-50P	Bryant	7513NP	**49YY32**	—	—
50 A	3	3	125/250V AC	10-50P	Hubbell	HBL7513C	**5Z844**	HBL7977	**3D282**
50 A	3	4	125/250V AC	14-50P	Bryant	—	—	9452ANPB	**49YY42**
50 A	3	4	125/250V AC	14-50P	Hubbell	HBL9451C	**5Z886**	HBL9452C	**5C791**
50 A	3	4	250V AC	15-50P	Hubbell	HBL8451C	**5Z892**	HBL8452C	**5C796**
50 A	3	4	250V AC	15-50P	Bryant	—	—	8452ANPB	**49YY38**
60 A	3	4	125/250V AC	14-60P	Bryant	—	—	9462ANPB	**49YY43**
60 A	3	4	125/250V AC	14-60P	Hubbell	HBL9461C	**5Z888**	HBL9462C	**5C792**
60 A	3	4	250V AC	15-60P	Bryant	—	—	8462ANPB	**49YY39**
60 A	3	4	250V AC	15-60P	Hubbell	HBL8461C	**5Z894**	HBL8462C	**5C797**
60 A	4	4	120/208V AC	18-60P	Hubbell	HBL7303C	**3D242**	HBL7302C	**3D241**
60 A	4	4	120/208V AC	18-60P	Bryant	—	—	8362ANPB	**49YY35**

NEMA 5-30P
49YY44

NEMA 10-30P
5Z843

NEMA 10-50P
49YY32

NEMA 5-30P
5Z911

NEMA 15-50P
5C796

NEMA 18-60P
49YY35

Plug Adapters

Warning: Where adapters have different ratings on blade and slot ends, the following precautions must be exercised in their use:

1. Overcurrent protection is determined by blade end.
2. Adapter use should be limited to lowest rated end of adapter to prevent overheating.

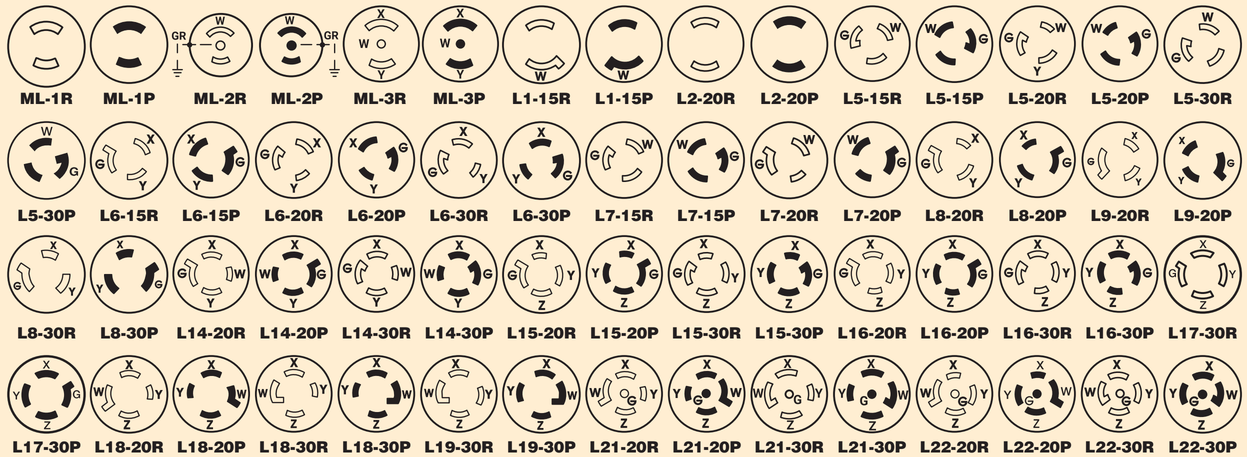
Slot End Rating	NEMA Connector	Slot End Style	Blade End Rating	Plug Configuration	Blade End Style	Mfr. Model	Item No.
3 Wire 15A 125V	—	Straight Blade	3 Wire 10A 250V 15A 125V	—	Twist-Lock(R)	9053A	**3D294**
20A 125V	5-20R	Straight Blade	20A 125V	L5-20P	Locking	HBL2129	**3D021**
15A 125V	L5-15R	Locking	15A 125V	5-15P	Straight Blade	HBL2271	**3D024**
20A 125V	5-20R	Straight Blade	30A 125V	L5-30P	Locking	HBL31CM29	**3D106**
10A 250V15A 125V	Non-NEMA	Locking	15A 125V	5-15P	Straight Blade	9054A	**3D295**
20A 125V	L5-20R	Locking	15A 125V	5-15P	Straight Blade	HBL21CM28	**3D536**
20A 125V	5-15R	Straight Blade	20A 125V	L5-20P	Locking	HBL21CM29	**3D537**
30A 125V	L5-30R	Locking	15A 125V	5-15P	Straight Blade	HBL31CM28	**1UKB5** *
30A 125V	L5-30R	Twist-Lock®	15A 125V	NEMA 5-15P	Straight Blade	HBL61CM22	**1UKB6** *†

***** Marine rated. † Straight adapter cord.***

3D294

3D295

Locking Blade NEMA Configurations



Receptacle
4A258

Connector
4A260

Plug
4A259

Flanged Inlet
3D034

Flanged Receptacle
3D035

Corrosion Resistant Plug
3D564

NEMA Twist-Lock® Devices

Premium-quality industrial wiring devices feature a powerful cord grip, 1-pc. integrated dust shield, tough nylon housing, visible product identification, and roomy wiring chamber.

Note: See page 327 for NEMA configurations.
For boots, see page 329.

Amps	NEMA Plug Config.	No. of Poles	No. of Wires	HP	Voltage	SINGLE RECEPTACLE (BLACK) Mfr. Model	Item No.	CONNECTOR BODY (BLACK AND WHITE) Mfr. Model	Item No.	PLUG (BLACK AND WHITE) Mfr. Model	Item No.
1-Phase											
15	L1-15	2	2	0.5	125V AC	HBL7535	**3D260**	HBL7506C	**3D258**	HBL7545C	**3D261**
15	L5-15	2	3	0.5	125V AC	HBL4710	**5A072**	HBL4729C	**5A074**	HBL4720C	**5A073**
15	L5-15	2	3	0.5	125V AC	—	—	HBL4729CBK	**1DJJ2** **	HBL4720CBK	**1DJJ1** **
15	L6-15	2	3	2.0	250V AC	HBL4560	**6C576**	HBL4579C	**6C579**	HBL4570C	**6C578**
15	L7-15	2	3	2.0	277V AC	HBL4750	**5Z899** *	—	—	—	—
15	L7-15	2	3	2.0	277V AC	HBL4760	**6C122**	HBL4779C	**1X986**	HBL4770C	**1X985**
20	L2-20	2	2	2.0	250V AC	HBL7210B	**3D239**	HBL7101C	**3D237**	HBL7102C	**3D238**
20	L5-20	2	3	1.0	125V AC	HBL2310	**4A258**	HBL2313	**4A260**	HBL2311	**4A259**
20	L5-20	2	3	1.0	125V AC	—	—	HBL2313BK	**1DJJ4** **	HBL2311BK	**1DJJ3** **
20	L5-20	2	3	1.0	125V AC	—	—	HBL23CM13	**3D046** ‡‡	HBL23CM11	**3D045** ‡‡
20	L6-20	2	3	2.0	250V AC	HBL2320	**5A080**	HBL2323	**5A082**	HBL2321	**5A081**
20	L6-20	2	3	2.0	250V AC	—	—	HBL2323BK	**1DJJ8** **	HBL2321BK	**1DJJ7** **
20	L7-20	2	3	2.0	277V AC	HBL2330	**1X978**	HBL2333	**5Z901**	HBL2331	**1X979**
20	L8-20	2	3	5.0	480V AC	HBL2340	**5Z902**	HBL2343	**6C124**	HBL2341	**6C123**
20	L9-20	2	3	5.0	600V AC	HBL2350	**3D040**	HBL2353	**3D042**	HBL2351	**3D041**
20	L14-20	3	4	1 Line to Neutral, 2 Line to Line	125/250V AC	HBL2410	**4A264**	HBL2413	**4A266**	HBL2411	**4A265**
20	L14-20	3	4	1 Line to Neutral, 2 Line to Line	125/250V AC	—	—	HBL2413BK	**1DJK7** **	HBL2411BK	**1DJK6** **
30	L5-30	2	3	1.0	125V AC	HBL2610	**4A261**	HBL2613	**4A263**	HBL2611	**4A262**
30	L5-30	2	3	1.0	125V AC	—	—	HBL2613BK	**1DJJ6** **	HBL2611BK	**1DJJ5** **
30	L5-30	2	3	1.0	125V AC	—	—	HBL26CM13	**3D089** ‡‡	HBL26CM11	**3D088** ‡‡
30	L6-30	2	3	2.0	250V AC	HBL2620	**5A086**	HBL2623	**5A088**	HBL2621	**5A087**
30	L6-30	2	3	2.0	250V AC	—	—	HBL2623BK	**1DJK1** **	HBL2621BK	**1DJJ9** **
30	L8-30	2	3	5.0	480V AC	HBL2640	**6C546**	HBL2643	**6C548**	HBL2641	**6C547**
30	L14-30	3	4	2.0	125/250V AC	HBL2710	**6A655**	HBL2713	**6A657**	HBL2711	**6A656**
30	L14-30	3	4	2.0	125/250V AC	—	—	HBL2713BK	**1DJK9** **	HBL2711BK	**1DJK8** **
3-Phase											
20	L15-20	3	4	3.0	250V AC	HBL2420	**4A267**	HBL2423	**4A269**	HBL2421	**4A268**
20	L16-20	3	4	5.0	480V AC	HBL2430	**6A661**	HBL2433	**6A663**	HBL2431	**6A662**
20	L18-20	4	4	2.0	120/208V AC	HBL2440	**3D053**	HBL2443	**5C972**	HBL2441	**5C971**
20	L21-20	4	5	2.0	120/208V AC	—	—	HBL2513	**5Z906**	HBL2511	**1X981**
20	L21-20	4	5	2.0	120/208V AC	—	—	HBL2513FC	**1DNW1** ††	HBL2511FC	**1DNV9** ††
20	L21-20	4	5	2.0	120/208V AC	—	—	HBL2513BK	**1DJK3** **	HBL2511BK	**1DJK2** **
20	L22-20	4	5	10.0	277/480V AC	HBL2520	**6C153**	HBL2523	**6C545**	HBL2521	**6C544**
30	L15-30	3	4	3.0	250V AC	HBL2720	**4A270**	HBL2723	**4A272**	HBL2721	**4A271**
30	L16-30	3	4	10.0	480V AC	HBL2730	**6A658**	HBL2733	**6A660**	HBL2731	**6A659**
30	L17-30	3	4	10.0	600V AC	HBL2740	**3D095**	HBL2743	**3D097**	HBL2741	**3D096**
30	L18-30	4	4	3.0	120/208V AC	HBL2750	**3D099**	HBL2753	**5C970**	HBL2751	**5C969**
30	L19-30	4	4	10.0	277/480V AC	HBL2760	**3D100**	HBL2763	**3D102**	HBL2761	**3D101**
30	L21-30	4	5	3.0	120/208V AC	HBL2810	**1X982**	HBL2813	**1X984**	HBL2811	**1X983**
30	L21-30	4	5	3.0	120/208V AC	—	—	HBL2813FC	**1DNW3** ††	HBL2811FC	**1DNW2** ††
30	L21-30	4	5	3.0	120/208V AC	—	—	HBL2813BK	**1DJK5** **	HBL2811BK	**1DJK4** **
30	L22-30	4	5	10.0	277/480V AC	HBL2820	**5Z908**	HBL2823	**6C549**	HBL2821	**5C789**
Three-Phase											
20	L21-20	4	5	2.0	120/208V AC	HBL2510	**1X980**	—	—	—	—

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	FLANGED INLET (WHITE NYLON) Mfr. Model	Item No.	FLANGED RECEPTACLE (WHITE NYLON) Mfr. Model	Item No.	PLUG (YELLOW, MARINE RATED) Mfr. Model	Item No.
1-Phase											
15	L5-15	2	3	0.5	125V AC	HBL4716C	**3D170**	HBL4715C	**3D168**	—	—
15	L6-15	2	3	2.0	250V AC	HBL4586	**3D785** †	HBL4585C	**3D153**	—	—
20	L2-20	2	2	2.0	250V AC	—	—	HBL3226	**3D693** †	—	—
20	L5-20	2	3	1.0	125V AC	HBL2315	**3D034**	HBL2316	**3D035**	HBL23CM11	**3D045** ‡‡
20	L6-20	2	3	2.0	250V AC	HBL2325	**3D036**	HBL2326	**3D037**	HBL23CM21	**3D564** ‡‡
20	L7-20	2	3	2.0	277V AC	—	—	HBL2336	**3D038**	—	—
20	L8-20	2	3	5.0	480V AC	—	—	HBL2346	**3D039**	—	—
20	L9-20	2	3	5.0	600V AC	—	—	HBL2356	**3D043**	—	—
20	L14-20	3	4	1 Line to Neutral, 2 Line to Line	125/250V AC	HBL2415	**3D047**	HBL2416	**3D048**	—	—
30	L5-30	2	3	—	125V AC	HBL303NM	**4D351** ‡	—	—	—	—
30	L5-30	2	3	—	125V AC	HBL303SS	**3D954** #	—	—	—	—
30	L5-30	2	3	1.0	125V AC	HBL2615	**3D072**	HBL2616	**3D073**	HBL26CM11	**3D088** ‡‡
30	L6-30	2	3	2.0	250V AC	HBL2625	**3D074**	HBL2626	**3D075**	HBL26CM21	**3D639** ‡‡
30	L8-30	2	3	5.0	480V AC	—	—	HBL2646	**3D632**	—	—
30	L14-30	3	4	2.0	125/250V AC	HBL2715	**3D090**	HBL2716	**3D091**	—	—
3-Phase											
20	L15-20	3	4	3.0	250V AC	HBL2425	**3D566**	HBL2426	**3D049**	—	—
20	L16-20	3	4	5.0	480V AC	HBL2435	**3D572**	HBL2436	**3D052**	—	—
20	L18-20	4	4	2.0	120/208V AC	—	—	HBL2446	**3D574**	—	—
20	L21-20	4	5	2.0	120/208V AC	HBL2515	**5C995**	HBL2516	**5C996**	—	—
30	L15-30	3	4	3.0	250V AC	HBL2725	**3D092**	HBL2726	**3D093**	—	—
30	L16-30	3	4	10.0	480V AC	HBL2735	**3D641**	HBL2736	**3D094**	—	—
30	L17-30	3	4	10.0	600V AC	HBL2745	**3D642**	HBL2746	**3D098**	—	—
30	L18-30	4	4	3.0	120/208V AC	HBL2755	**3D643**	HBL2756	**3D644**	—	—
30	L19-30	4	4	10.0	277/480V AC	HBL2765	**3D645**	HBL2766	**3D646**	—	—
30	L21-30	4	5	3.0	120/208V AC	HBL2815	**3D103**	HBL2816	**3D104**	—	—
30	L22-30	4	5	10.0	277/480V AC	HBL2825	**3D660**	HBL2826	**3D661**	—	—

** Flush duplex receptacle, brown. † Stainless steel housing. ‡ Nonmetallic housing and cover, marine rated. # Stainless steel housing and cover, marine rated.*
*** All black. †† Designed for use with flat cable. ‡‡ Yellow, marine rated.*

4D579

Insulgrip® Plug and Connector Twist-Lock® Latching Kit

Latch with locking slide provides double-locking feature for plug and connector bodies to prevent unintentional disconnection even under high vibration.

For Use With	Color	Mfr. Model	Item No.
All 3-Wire 20A or 30A Locking PlugsInsulgrip Plugs and Connectors	White	SK2	**6PFN8**
All 4- and 5-Wire 20A or 30A Twist-Lock Insulgrip Plugs and Connectors	White	SK3	**4D579**

Locking Devices

Note: For NEMA configurations, see page 327.

MIDGET DEVICES

Nylon plugs and connector bodies resist impact and abuse. 2-wire valise devices have bundling clamp screw terminals; 3-wire valise devices have insulation displacement (IDC) terminals. This allows easy and fast installation. Angle devices are low profile for use in limited spaces. Valise devices have offset jaw cord grips to prevent strain on terminals. UL Listed and CSA Certified.

HUBBELL NEMA DEVICES

Impact- and crush-resistant nylon construction withstands industrial chemicals and solvents. Plugs and connectors have 2-part offset jaw cord grips and totally insulated dead-front construction. Receptacles have a thermoplastic base, all-brass grounding system, and 1-pc. contact. UL Listed and CSA Certified.

HUBBELL ISOLATED GROUND RECEPTACLES

Insulation barrier construction isolates ground contacts from mounting strap for a noise-free ground. IG triangle on face of receptacle indicates isolated ground device. Green grounding screw is connected directly to grounding contacts. For use in accordance with NEC/NFPA Article 250-74, Exception 4. ANSI C73, NEMA WD-6. UL Listed to Standard 498 and CSA Certified, CSA C22.2 42.

1XC00 49YX75 3D167 3D268 6C577 3D055 3D265 6C632 4D319

			PLUG			CONNECTOR BODY			FLANGED RECEPTACLE			FLANGED INLET		
Amps	NEMA Config.	Voltage	Description	Mfr. Model	Item No.	Description	Mfr. Model	Item No.	Description	Mfr. Model	Item No.	Description	Mfr. Model	Item No.
Hubbell Midget Locking Devices														
15 A	ML-1	120V AC	Valise®	HBL7465V	**1X999**	Valise®	HBL7464V	**1X998**	SS Flange	HBL7468	**1XC00**	SS Flange	HBL7467	**6C616**
15 A	ML-2	120V AC	Valise®	HBL7594V	**6C146**	Valise®	HBL7593V	**6C145**	SS Flange	HBL7596	**5Z912**	SS Flange	HBL7595	**5C798**
15 A	ML-2	120V AC	Straight	HBL7594	**6C626**	Straight	HBL7593	**6C625**	Nylon Flange	HBL7596N	**3D271**	Nylon Flange	HBL7595N	**3D270**
15 A	ML-2	120V AC	Angle	HBL7570	**3D266**	Angle	HBL7571	**3D267**	—	—	—	—	—	—
15 A	ML-3	120/240V AC	Valise®	HBL7485V	**6C618**	Valise®	HBL7484V	**6C617**	SS Flange	HBL7487	**6C620**	—	—	—
15 A	ML-3	120/240V AC	Straight	HBL7485	**5Z909**	Straight	HBL7484	**5Z910**	—	—	—	—	—	—
Bryant Midget Locking Devices														
15 A	ML-1	125V AC	Triple Gripper®	7465N	**49YX69**	Triple Gripper®	7464N	**49YX68**	Nylon Flange	7468N	**49YX71**	Nylon Flange	7466N	**49YX70**
15 A	ML-2	125V AC	Triple Gripper®	7594NP	**49YX75**	Triple Gripper®	7593NC	**49YX74**	Nylon Flange	7596ER	**49YX77**	Nylon Flange	7595MB	**49YX76**
15 A	ML-3	125/250V AC	Triple Gripper®	7485NP	**49YX73**	Triple Gripper®	7484NC	**49YX72**	—	—	—	—	—	—

Description	Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	Color	Mfr. Model	Item No.
Hubbell Miscellaneous NEMA Locking Devices									
Duplex Receptacle	15	L5-15R	2	3	0.5	125V AC	Brown	HBL4700	**6A664**
Duplex, Combination 5-15R & L5-15R	15	L5-15R	2	3	0.5	125V AC	Brown	HBL4792	**3D171**
Flanged Receptacle, Metal	15	L5-15R	2	3	0.5	125V AC	Brown	HBL4715	**3D167**
Flanged Inlet, Metal	15	L5-15P	2	3	0.5	125V AC	Gray	HBL4716	**3D169**
Duplex Receptacle	15	L6-15R	2	3	2.0	250V AC	Brown	HBL4550	**6C575**
Single Receptacle, Panel Mount	15	L6-15R	2	3	2.0	250V AC	Black	HBL4563	**6C577**
Connector Body, Elastogrip	15	L5-15R	2	3	—	125V AC	Yellow	HBL2547	**3D060**
Connector Body, Watertight Elastogrip	15	L5-15R	2	3	—	125V AC	Yellow	HBL25W47	**3D071**
Plug, Elastogrip	15	L5-15P	2	3	0.5	125V AC	Yellow	HBL2447	**3D054**
Plug, Watertight Elastogrip	15	L5-15P	2	3	0.5	125V AC	Yellow	HBL24W47	**3D055**

				RECEPTACLE			PLUG		CONNECTOR BODY	
Amps	No. of Poles	No. of Wires	Voltage	Mfr. Model	Description	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Hubbell Non-NEMA Locking Devices (Replacement Use Only)										
15/10	3	3	125/250V AC	HBL7580	Duplex	**3D268**	HBL7567C	**3D265**	HBL7565C	**3D264**
15/10	3	3	125/250V AC	HBL7582	Single	**3D269**	—	—	—	—
20	2	3	250V AC	HBL7310BG	Single	**3D243**	HBL9965GCB	**3D300**	—	—
20	3	3	125/250V AC	HBL7310B	Single	**6C610**	HBL9965C	**6C632**	HBL7314C	**6C611**
20	3	4	250V AC	HBL7410BG	Single	**3D246**	HBL7411GCB	**3D247**	HBL7413GCB	**3D248**
20	4	4	120/208V AC	HBL7410B	Single	**6C612**	HBL7411C	**6C613**	HBL7413C	**6C614**
20/10	4	5	250/600V AC	HBL3520	Single	**3D117**	HBL3521C	**3D118**	HBL3523C	**3D119**
30	3	3	125/250V AC	HBL3330	Flush	**3D109**	HBL3331C	**3D110**	HBL3333C	**3D111**
30	3	4	250V AC	HBL3430G	Single	**6C550**	HBL3431GCB	**6C551**	HBL3433GCB	**6C552**
30	4	4	120/208V AC	HBL3430	Single	**3D114**	HBL3431C	**3D115**	HBL3433C	**3D116**

Amps	Voltage	NEMA Config.	No. of Poles	No. of Wires	Description	Mfr. Model	Item No.
Hubbell Isolated Ground Locking Receptacles, Orange							
15	125V AC	L5-15R	2	3	Duplex	IG4700A	**6C121**
15	240V AC	L6-15R	2	3	Duplex	IG4550A	**4D319**
20	125V AC	L5-20R	2	3	Single	IG2310	**5Z900**
20	240V AC	L6-20R	2	3	Single	IG2320	**6C649**
20	480V AC	L8-20R	2	3	Single	IG2340	**2XTF3**
20	240V AC	L15-20R	3	4	Single	IG2420	**2XTF4**
20	120/208V AC	L21-20R	4	5	Single	IG2510	**2XTF5**
30	125V AC	L5-30R	2	3	Single	IG2610	**5Z903**
30	240V AC	L6-30R	2	3	Single	IG2620	**6C650**
30	240V AC	L15-30R	3	4	Single	IG2720	**2XTF7**
30	125/250V AC	L14-30R	3	4	Single	IG2710	**2XTF6**
30	120/208V AC	L21-30R	4	5	Single	IG2810	**6C651**

Weatherproof Boots for Plugs and Connectors

Thermoplastic elastomer boots protect cord-connected devices from harmful UV rays and many chemicals. Graduated-step cord entry design accommodates a wide range of cord sizes. Closure plug, sold separately, slips over the connector boot to seal the front of the device when not plugged in.

Note: When selecting a boot for a connector that will be used with a flanged inlet, use a boot for a plug.

	FOR PLUGS		FOR CONNECTOR BODIES	
Description	Mfr. Model	Item No.	Mfr. Model	Item No.
Hubbell Wiring Device-Kellems				
Straight Blade, 15 and 20A Insulgrip	HBL6017	**3D226**	HBL6018	**3D227**
Twist-Lock®, 15A 2 and 3 Wire	HBL6023	**3D229**	HBL6024	**3D230**
Twist-Lock®, 20 and 30A, 3 Wire	HBL6031	**3D231**	HBL6032	**3D232**
Twist-Lock®, 20 and 30A, 4 and 5 Wire	HBL6035	**5C992**	HBL6036	**3D233**
Marine Rated, Straight Blade, 15 and 20A Insulgrip	HBL60CM17	**3D944**	HBL60CM18	**3D945**
Marine Rated, Twist-Lock®, 20 and 30A, 3 Wire	HBL60CM31	**3D949**	HBL60CM32	**3D950**
Bryant				
10A and 15A Locking Devices, 15A and 20A Straight Blade	5200BP	**49YY13**	5200BC	**49YY12**
20A and 30A Locking Devices	72002BP	**49YY15**	72002BC	**49YY14**
50A Locking Devices	7716B	**49YY16**	7717B	**49YY17**

3D231

Plug
49YX18

Connector
49YW89

Receptacle
49YX64

BRYANT®

Locking Plugs, Connectors, and Receptacles

Nylon devices are chemical and impact-resistant with a internal, self-centering Triple Gripper® cord grip with radius teeth design provide secure cord retention. Plugs and Connectors are polarized and moisture-resistant. Receptacles are single locking.

Amps	NEMA Config.	No. of Poles	No. of Wires	Voltage	LOCKING PLUG Mfr. Model	LOCKING PLUG Item No.	LOCKING CONNECTOR Mfr. Model	LOCKING CONNECTOR Item No.	LOCKING RECEPTACLE Mfr. Model	LOCKING RECEPTACLE Item No.
15	L5-15	2	3	125VAC	4721NP	**49YX18**	4732NC	**49YW89**	4710	**49YX46**
15	L6-15	2	3	250VAC	70615NP	**49YX25**	70615NC	**49YW96**	70615FR	**49YX53**
15	L7-15	2	3	277VAC	4770NP	**49YX19**	4779NC	**49YW90**	4760	**49YX47**
20	L5-20	2	3	125VAC	70520NP	**49YX22**	BRY70520NC	**49YW93**	70520FR	**49YX51**
20	L6-20	2	3	250VAC	70620NP	**49YX26**	70620NC	**49YW97**	70620FR	**49YX54**
20	L7-20	2	3	277VAC	70720NP	**49YX28**	70720NC	**49YW99**	70720FR	**49YX56**
20	L8-20	2	3	480VAC	70820NP	**49YX29**	70820NC	**49YX01**	70820FR	**49YX57**
20	L14-20	3	4	125/250VAC	71420NP	**49YX30**	71420NC	**49YX02**	71420FR	**49YX58**
20	L15-20	3	3	250VAC	—	—	—	—	71520FR	**49YX60**
20	L15-20	3	4	250VAC	71520NP	**49YX32**	71520NC	**49YX04**	—	—
20	L16-20	3	4	480VAC	BRY71620NP	**49YX34**	71620NC	**49YX06**	71620FR	**49YX62**
20	L21-20	4	5	120/208VAC	72120NP	**49YX36**	BRY72120NC	**49YX08**	72120FR	**49YX64**
20	L23-20	4	5	347/600VAC	72320NP	**49YX38**	72320NC	**49YX10**	72320FR	**49YX66**
30	L5-30	2	3	125VAC	70530NP	**49YX23**	70530NC	**49YW94**	70530FR	**49YX52**
30	L5-30	2	3	125VAC	70530NPCR	**49YX24** *	70530NCCR	**49YW95** *	—	—
30	L6-30	2	3	250VAC	70630NP	**49YX27**	70630NC	**49YW98**	70630FR	**49YX55**
30	L14-30	3	4	125/250VAC	71430NP	**49YX31**	71430NC	**49YX03**	71430FR	**49YX59**
30	L15-30	3	4	250VAC	71530NP	**49YX33**	71530NC	**49YX05**	71530FR	**49YX61**
30	L16-30	3	4	480VAC	71630NP	**49YX35**	71630NC	**49YX07**	71630FR	**49YX63**
30	L21-30	4	5	120/208VAC	72130NP	**49YX37**	72130NC	**49YX09**	BRY72130FR	**49YX65**
50	Non-NEMA	2	3	125VAC	6361CR	**49YX20**	6360CR	**49YW91**	6370CR	**49YX50**
50	Non-NEMA	2	3	600VAC/250VDC	3763	**49YX16**	3762	**49YW87**	3771	**49YX45**
50	Non-NEMA	3	4	125/250VAC	6365CR	**49YX21**	6364CR	**49YW92**	6369CR	**49YX49**
50	Non-NEMA	3	4	600VAC/250VDC	—	—	—	—	7379	**49YX48**
50	Non-NEMA	3	4	600VAC/250VDC	3765	**49YX17**	3764	**49YW88**	3769	**49YX44**

** Corrosion resistant.*

1PGL5

1PGN2

NEMA Locking Devices with Ground Continuity Monitoring

Pass & Seymour legrand

Dual-LED indicators provide immediate visual identification of potential upstream mis-wire conditions. Nylon housing provides superior chemical and impact resistance, with an integral dust seal. Single-plane wiring for easy installation. Black and white color. UL and C-UL Listed. Meet FSUL Standards.

Amps	NEMA Plug Config.	No. of Poles	No. of Wires	Voltage	PLUGS Mfr. Model	PLUGS Item No.	CONNECTORS Mfr. Model	CONNECTORS Item No.
15	L7-15	2	3	277VAC	—	—	PSL715CGCM	**1PGN1**
20	L5-20	2	3	125VAC	—	—	L520CGCM	**1PGL8**
20	L14-20	3	4	125/250VAC	L1420PGCM	**1PGL5**	L1420CGCM	**1PGN2**
30	L6-30	2	3	250VAC	L630PGCM	**1PGL3**	L630CGCM	**1PGL9**
30	L14-30	3	4	125/250VAC	—	—	L1430CGCM	**1PGN3**

Male Inlet
4CT67

Receptacle
4CV51

Plug
4CV53

Connector Body
4CV54

Watertight Safety-Shroud Twist-Locks®

HUBBELL® Wiring Device-Kellems

UL Type 4X-rated devices can prevent the ingress of water under hose-down conditions. Feature stainless steel hardware, closure caps, 1-pc. thermoplastic housing, and lockout-tagout hole.

Note: For Watertight Safety Shrouds, see page 334.

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	PLUG Mfr. Model	PLUG Item No.	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	MALE INLET Mfr. Model	MALE INLET Item No.
1-Phase													
20	L5-20	2	3	1.0	125VAC	HBL2310SW	**4CT63**	HBL2311SW	**4CT65**	HBL2313SW	**4CT66**	HBL2315SW	**4CT67**
20	L6-20	2	3	2.0	250VAC	HBL2320SW	**4CT71**	HBL2321SW	**4CT73**	HBL2323SW	**4CT74**	—	—
20	L7-20	2	3	2.0	277VAC	HBL2330SW	**4CT79**	HBL2331SW	**4CT81**	HBL2333SW	**4CT82**	—	—
20	L14-20	3	4	1 Line to Neutral, 2 Line to Line	125/250VAC	HBL2410SW	**4CT87**	HBL2411SW	**4CT89**	HBL2413SW	**4CT90**	—	—
30	L5-30	2	3	2.0	125VAC	HBL2610SW	**3HZ79**	HBL2611SW	**4CV21**	HBL2613SW	**4CV22**	HBL2615SW	**4CV23**
30	L6-30	2	3	2.0	250VAC	HBL2620SW	**4CV27**	HBL2621SW	**4CV29**	HBL2623SW	**4CV30**	—	—
30	L14-30	3	4	2.0	125/250VAC	HBL2710SW	**4CV35**	HBL2711SW	**4CV37**	HBL2713SW	**4CV38**	HBL2715SW	**4CV39**
3-Phase													
20	L15-20	3	4	3.0	250VAC	HBL2420SW	**4CT95**	HBL2421SW	**4CT97**	HBL2423SW	**4CT98**	—	—
20	L16-20	3	4	5.0	480VAC	HBL2430SW	**4CV04**	HBL2431SW	**4CV06**	HBL2433SW	**4CV07**	HBL2435SW	**4CV08**
20	L21-20	4	5	2.0	120/208VAC	HBL2510SW	**4CV12**	HBL2511SW	**4CV14**	HBL2513SW	**4CV15**	—	—
30	L15-30	3	4	3.0	250VAC	HBL2720SW	**4CV43**	HBL2721SW	**4CV45**	HBL2723SW	**4CV46**	HBL2725SW	**4CV47**
30	L16-30	3	4	10.0	480VAC	HBL2730SW	**4CV51**	HBL2731SW	**4CV53**	HBL2733SW	**4CV54**	—	—
30	L17-30	3	4	10.0	600VAC	HBL2740SW	**4CV59**	HBL2741SW	**4CV61**	HBL2743SW	**4CV62**	—	—
30	L21-30	4	5	3.0	120/208VAC	HBL2810SW	**4CV67**	HBL2811SW	**4CV69**	HBL2813SW	**4CV70**	HBL2815SW	**4CV71**

Receptacle
3D324

Connector Body
3D320

Plug
3D321

Flanged Inlet
4D206

50A Twist-Lock® Devices

HUBBELL® Wiring Device-Kellems

Box terminal with Allen-head threaded lug permits high clamping pressure on conductors without damaging the threads. Receptacles have zinc-plated steel nosepieces that cannot be distorted to mate with the wrong device. Connectors and plugs have a super-tough, ribbed-nylon housing for superior impact/crush resistance and secure gripping. Stainless steel shroud on plugs protects plug blades from damage.

No. of Poles	No. of Wires	Voltage	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	CONNECTOR BODY Mfr. Model	CONNECTOR BODY Item No.	PLUG Mfr. Model	PLUG Item No.	FLANGED INLET Mfr. Model	FLANGED INLET Item No.
Locking Devices										
2	3	125VAC	CS6370	**3D325**	CS6360C	**3D320**	CS6361C	**3D321**	—	—
2	3	250VAC	CS8269	**3D332**	CS8264C	**3D330**	CS8265C	**3D331**	—	—
2	3	480VAC	CS8469	**3D338**	CS8464C	**3D336**	CS8465C	**3D337**	—	—
2	3	600VAC/250VDC	HBL3771	**3D128**	HBL3762C	**3D123**	HBL3763C	**3D124**	—	—
3	4	125/250VAC	CS6369	**3D324**	CS6364C	**3D322**	CS6365C	**3D323**	CS6375	**3D326**
3	4	250VAC	CS8369	**3D335**	CS8364C	**3D333**	CS8365C	**3D334**	CS8375	**4D208**
3	4	480VAC	CS8169	**3D329**	CS8164C	**3D327**	CS8165C	**3D328**	CS8175	**4D206**
3	4	600VAC/250VDC	HBL3769	**3D127**	HBL3764C	**3D125**	HBL3765C	**3D126**	—	—
3	4	600VAC/250VDC	HBL7379	**3D245** ‡	HBL7764C	**3D274** ‡	HBL7765C	**3D275** ‡	—	—
Marine-Rated Locking Devices										
2	3	125VAC	HBL63CM70	**3D980**	HBL63CM60	**3D975**	HBL63CM61	**3D976**	HBL503NM	**4D352** *
3	4	125/250VAC	HBL63CM69	**3D979**	HBL63CM64	**3D977**	HBL63CM65	**3D978**	HBL504NM	**4D353**
3	4	125/250VAC	—	—	—	—	—	—	HBL504SS	**3D982** †

Description	Mfr. Model	Item No.
Accessories		
Plug Seal-Tite® Boot, Black, Elastomer Material Withstands UV Rays and Many Chemicals	HBL7716C	**3D272**
Connector Body Seal-Tite® Boot, Black, Elastomer Material Withstands UV Rays and Many Chemicals	HBL7717C	**3D273**
Receptacle Weatherproof Cast-Aluminum Cover for Single-Gang FS/FD Boxes	HBL7770	**3D276**
Receptacle Weatherproof Thermoplastic Gray Cover for Single-Gang FS/FD Boxes	HBL7774WO	**3D277**
Receptacle Weatherproof Thermoplastic Yellow Cover for Single-Gang FS/FD Boxes	HBL77CM74WO	**3D280**
Box Cover for 4" Square or 2-Gang	HBL50SC	**2EAV1**

** Nonmetallic housing and cover. † Stainless steel housing and cover. ‡ For replacement use only.*

Watertight Devices

Corrosion-resistant devices are suitable for dust-laden, damp, or wet (IP66) environments, including temporary submersion (IP67). Rated NEMA 4, 4X, 6, and 6P. UL Listed and CSA Certified.

HUBBELL®

Plugs and connectors feature keyed interior for easy installation and high conductivity brass termination. Also designed with Gotcha® ring and collapsible bushing strain relief. The strain relief nut seals on the body, eliminating areas of debris collection, and provides impact resistance. Unique cone seal prevents dirt and debris from collecting at cable entrance and adjusts to various cable ranges. All stainless steel hardware and corrosion-resistant connection points.

ERICSON®

Designed with antimicrobial additives, these watertight devices provide continual, long-lasting protection against the growth of bacteria, mold, mildew, and fungi. These NSF/UL/CSA rated wiring devices can be used for new and existing installations, and are suitable for a wide range of applications.

Ericson Plug 40LM93

Hubbell Receptacle & Cover 39AW91

Hubbell Connector 39AW86

Amps	NEMA Config.	No. of Poles	No. of Wires	Voltage	Color	Brand	PLUG Mfr. Model	PLUG Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.	RECEPTACLE WITH COVER Mfr. Model	RECEPTACLE WITH COVER Item No.
Straight-Blade Devices												
15	5-15	2	3	125VAC	Yellow	Hubbell	HBL14W47A	**39AW17**	HBL15W47A	**39AW22**	HBL60W47	**39AW60**
15	5-15	2	3	125VAC	Black	Hubbell	HBL14W47BK	**39AW18**	HBL15W47BK	**39AW23**	—	—
15	5-15	2	3	125VAC	Yellow	Ericson	1510-PW6P-AM	**40LN02**	1610-CW6P-AM	**40LN05**	—	—
15	6-15	2	3	250VAC	Yellow	Hubbell	HBL14W49	**39AW20**	HBL15W49	**39AW25**	HBL60W49	**39AW62**
15	6-15	2	3	250VAC	Yellow	Ericson	1514-PW6P-AM	**40LN15**	1614-CW6P-AM	**40LN19**	—	—
20	5-20	2	3	125VAC	Yellow	Hubbell	HBL14W33A	**39AW16**	HBL15W33A	**39AW21**	HBL60W33	**39AW61**
20	5-20	2	3	125VAC	Yellow	Ericson	1512-PW6P-AM	**40LN18**	1612-CW6P-AM	**40LM99**	—	—
20	6-20	2	3	250VAC	Yellow	Hubbell	HBL14W48	**39AW19**	HBL15W48	**39AW24**	HBL60W48	**39AW63**
20	6-20	2	3	250VAC	Yellow	Ericson	1516-PW6P-AM	**40LM93**	1616-CW6P-AM	**40LN06**	—	—
Locking Devices												
15	L5-15	2	3	125VAC	Black	Hubbell	HBL24W47BK	**39AW92**	HBL25W47BK	**39AW93**	—	—
15	L5-15	2	3	125V AC	Yellow	Hubbell	—	—	—	—	HBL65W47	**39AW64**
15	L5-15	2	3	125VAC	Yellow	Hubbell	HBL24W47A	**39AW26**	HBL25W47A	**39AW29**	—	—
15	L5-15	2	3	125VAC	Yellow	Ericson	1520-PW6P-AM	**40LM89**	1620-CW6P-AM	**40LM94**	—	—
15	L6-15	2	3	250V AC	Yellow	Hubbell	—	—	—	—	HBL65W49	**39AW65**
15	L6-15	2	3	250VAC	Yellow	Hubbell	HBL24W49	**39AW27**	HBL25W49	**39AW30**	—	—
15	L6-15	2	3	250VAC	Yellow	Ericson	1522-PW6P-AM	**40LN22**	1622-CW6P-AM	**40LM85**	—	—
15	L7-15	2	3	277V AC	Yellow	Hubbell	—	—	—	—	HBL65W34	**39AW66**
15	L7-15	2	3	277VAC	Yellow	Hubbell	HBL24W34	**39AW28**	HBL25W34	**39AW31**	—	—
15	L7-15	2	3	277VAC	Yellow	Ericson	1524-PW6P-AM	**40LN13**	1624-CW6P-AM	**40LM90**	—	—
20	L5-20	2	3	125VAC	Black	Hubbell	HBL26W47BK	**39AW95**	HBL27W47BK	**39AX03**	—	—
20	L5-20	2	3	125V AC	Yellow	Hubbell	—	—	—	—	HBL67W47	**39AW67**
20	L5-20	2	3	125VAC	Yellow	Hubbell	HBL26W47	**39AW32**	HBL27W47	**39AW39**	—	—
20	L5-20	2	3	125VAC	Yellow	Ericson	2310-PW6P-AM	**40LN03**	2410-CW6P-AM	**40LM87**	—	—
20	L6-20	2	3	250VAC	Yellow	Hubbell	HBL26W48	**39AW33**	HBL27W48	**39AW40**	—	—
20	L6-20	2	3	250V AC	Yellow	Hubbell	—	—	—	—	HBL67W48	**39AW68**
20	L6-20	2	3	250VAC	Yellow	Ericson	2312-PW6P-AM	**40LM86**	2412-CW6P-AM	**40LM97**	—	—
20	L7-20	2	3	277VAC	Yellow	Hubbell	HBL26W49	**39AW34**	HBL27W49	**39AW41**	—	—
20	L7-20	2	3	277V AC	Yellow	Hubbell	—	—	—	—	HBL67W49	**39AW69**
20	L7-20	2	3	277VAC	Yellow	Ericson	2314-PW6P-AM	**40LN04**	2414-CW6P-AM	**40LM96**	—	—
20	L14-20	3	4	125/250V AC	Yellow	Hubbell	—	—	—	—	HBL67W74	**39AW73**
20	L14-20	3	4	125/250VAC	Yellow	Hubbell	HBL26W74	**39AW35**	HBL27W74	**39AW42**	—	—
20	L14-20	3	4	125/250VAC	Yellow	Ericson	2320-PW6P-AM	**40LN12**	2420-CW6P-AM	**40LN11**	—	—
20	L15-20	3	4	250V AC	Yellow	Hubbell	—	—	—	—	HBL67W75	**39AW74**
20	L15-20	3	4	250VAC	Yellow	Hubbell	HBL26W75	**39AW36**	HBL27W75	**39AW43**	—	—
20	L15-20	3	4	250VAC	Black	Hubbell	HBL26W75BK	**39AW96**	HBL27W75BK	**39AX04**	—	—
20	L15-20	3	4	250VAC	Yellow	Ericson	2322-PW6P-AM	**40LM91**	2422-CW6P-AM	**40LN20**	—	—
20	L16-20	3	4	480VAC	Yellow	Hubbell	HBL26W76	**39AW37**	HBL27W76	**39AW44**	—	—
20	L16-20	3	4	480V AC	Yellow	Hubbell	—	—	—	—	HBL67W76	**39AW75**
20	L16-20	3	4	480VAC	Black	Hubbell	HBL26W76BK	**39AW38**	HBL27W76BK	**39AW45**	—	—
20	L16-20	3	4	480VAC	Yellow	Ericson	2324-PW6P-AM	**40LN08**	2424-CW6P-AM	**40LN17**	—	—
20	L21-20	4	5	120/208VAC	Yellow	Hubbell	HBL26W81	**39AW97**	HBL27W81	**39AX05**	—	—
20	L21-20	4	5	120/208VAC	Black	Hubbell	HBL26W81BK	**39AW98**	HBL27W81BK	**39AX06**	—	—
20	L22-20	4	5	277/480VAC	Yellow	Hubbell	HBL26W82	**39AW99**	HBL27W82	**39AX07**	—	—
20	L23-20	4	5	347/600VAC	Yellow	Hubbell	HBL26W83	**39AX01**	HBL27W83	**39AX08**	—	—
20	Non-NEMA*	3	3	125/250VAC	Yellow	Hubbell	HBL26W08	**39AW85**	HBL27W08	**39AW84**	—	—
20	Non-NEMA*	3	3	125/250V AC	Yellow	Hubbell	—	—	—	—	HBL67W08	**39AW90**
20	Non-NEMA*	4	4	120/208VAC	Yellow	Hubbell	HBL26W09	**39AW94**	HBL27W09	**39AX02**	—	—
30	L5-30	2	3	125V AC	Yellow	Hubbell	—	—	—	—	HBL69W47	**39AW70**
30	L5-30	2	3	125VAC	Yellow	Hubbell	HBL28W47	**39AW46**	HBL29W47	**39AW53**	—	—
30	L5-30	2	3	125VAC	Black	Hubbell	—	—	HBL29W47BK	**39AX14**	—	—
30	L5-30	2	3	125VAC	Yellow	Ericson	2510-PW6P-AM	**40LM88**	2610-CW6P-AM	**40LN07**	—	—
30	L6-30	2	3	250V AC	Yellow	Hubbell	—	—	—	—	HBL69W48	**39AW71**
30	L6-30	2	3	250VAC	Yellow	Hubbell	HBL28W48	**39AW47**	HBL29W48	**39AW54**	—	—
30	L6-30	2	3	250VAC	Yellow	Ericson	2512-PW6P-AM	**40LM95**	2612-CW6P-AM	**40LN16**	—	—
30	L7-30	2	3	277V AC	Yellow	Hubbell	—	—	—	—	HBL69W49	**39AW72**
30	L7-30	2	3	277VAC	Yellow	Hubbell	HBL28W49	**39AW48**	HBL29W49	**39AW55**	—	—
30	L7-30	2	3	277VAC	Yellow	Ericson	2514-PW6P-AM	**40LN10**	2614-CW6P-AM	**40LM82**	—	—
30	L14-30	3	4	125/250VAC	Yellow	Hubbell	HBL28W74	**39AW49**	HBL29W74	**39AW56**	—	—
30	L14-30	3	4	125/250V AC	Yellow	Hubbell	—	—	—	—	HBL69W74	**39AW76**
30	L14-30	3	4	125/250VAC	Yellow	Ericson	2520-PW6P-AM	**40LN01**	2620-CW6P-AM	**40LM83**	—	—
30	L15-30	3	4	250V AC	Yellow	Hubbell	—	—	—	—	HBL69W75	**39AW77**
30	L15-30	3	4	250VAC	Yellow	Hubbell	HBL28W75	**39AW50**	HBL29W75	**39AW57**	—	—
30	L15-30	3	4	250VAC	Yellow	Ericson	2522-PW6P-AM	**40LN14**	2622-CW6P-AM	**40LM84**	—	—
30	L16-30	3	4	480VAC	Black	Hubbell	HBL28W76BK	**39AX09**	—	—	—	—
30	L16-30	3	4	480VAC	Yellow	Hubbell	HBL28W76	**39AW51**	HBL29W76	**39AW58**	—	—
30	L16-30	3	4	480V AC	Yellow	Hubbell	—	—	—	—	HBL69W76	**39AW78**
30	L16-30	3	4	480VAC	Yellow	Ericson	2524-PW6P-AM	**40LM92**	2624-CW6P-AM	**40LN09**	—	—
30	L17-30	3	4	600VAC	Yellow	Hubbell	HBL28W77	**39AW52**	HBL29W77	**39AW59**	—	—
30	L17-30	3	4	600V AC	Yellow	Hubbell	—	—	—	—	HBL69W77	**39AW79**
30	L17-30	3	4	600VAC	Yellow	Ericson	2526-PW6P-AM	**40LN23**	2626-CW6P-AM	**40LM98**	—	—
30	L18-30	4	4	120/208VAC	Yellow	Hubbell	HBL28W78	**39AW89**	HBL29W78	**39AW88**	—	—
30	L18-30	4	4	120/208VAC	Yellow	Ericson	2530-PW6P-AM	**40LN24**	2630-CW6P-AM	**40LN21**	—	—
30	L21-30	4	5	120/208VAC	Black	Hubbell	HBL28W81BK	**39AX11**	HBL29W81BK	**39AX16**	—	—
30	L21-30	4	5	120/208VAC	Yellow	Hubbell	HBL28W81	**39AX10**	HBL29W81	**39AX15**	—	—
30	L22-30	4	5	277/480VAC	Yellow	Hubbell	HBL28W82	**39AX12**	HBL29W82	**39AX17**	—	—
30	L23-30	4	5	347/600VAC	Yellow	Hubbell	HBL28W83	**39AX13**	HBL29W83	**39AX18**	—	—
30	Non-NEMA*	3	3	125/250V AC	Yellow	Hubbell	—	—	—	—	HBL69W08	**39AW91**
30	Non-NEMA*	3	3	125/250VAC	Yellow	Hubbell	HBL28W08	**39AW87**	HBL29W08	**39AW86**	—	—
30	Non-NEMA*	4	4	120/208VAC	Yellow	Hubbell	HBL28W09	**39AW83**	HBL29W09	**39AW82**	—	—

** Not UL Listed, for replacement use only.*

Receptacle
3D017

Connector Body
3D018

Plug
3D019

Hubbellock Devices

Spring-loaded safety shutter ejects plug if not properly locked into connector/receptacle; shutter snuffs out arcs when devices are connected or disconnected under load. Key/detent ensures positive lock. UL Listed.

				RECEPTACLE			CONNECTOR BODY			PLUG		
Amps	No. of Poles	No. of Wires	Voltage	Color	Mfr. Model	Item No.	Color	Mfr. Model	Item No.	Color	Mfr. Model	Item No.
Industrial Hubbellock												
20	2	3	125VAC	—	—	—	—	—	—	Black	HBL23035B	**3D553**
20/10/10	2	3	125VAC/DC, 250VDC, 480VAC	—	—	—	Gray	HBL23002GB	**3D029**	Gray	HBL23005GB	**3D031**
20/10/10	2	3	125V AC/DC, 250V DC, 480V AC	Black	HBL23000G	**3D026**	—	—	—	—	—	—
30	3	4	480VAC	—	—	—	Red	HBL20444B	**3D018**	Red	HBL20445B	**3D019**
30	3	4	480V AC	Black	HBL20443	**3D017**	—	—	—	—	—	—
30/20	3	4	600VAC/250VDC	—	—	—	Black	HBL21414B	**5C993**	Black	HBL21415B	**5C994**
30/20	3	4	600V AC/250V DC	Black	HBL20403	**3D015**	—	—	—	—	—	—
30/20	4	5	600VAC/250VDC	—	—	—	Black	HBL25414B	**3D058** †	Black	HBL25415B	**3D059** †
30/20	4	5	600V AC/250V DC	Blue	HBL25403	**3D057** *†	—	—	—	—	—	—
60	3	4	600VAC	—	—	—	Yellow	HBL26418	**3D080**	Yellow	HBL26419	**3D081**
60	3	4	600V AC	Black	HBL26410	**3D079**	—	—	—	—	—	—
60	4	5	600VAC	—	—	—	Blue	HBL26516	**3D083**	Blue	HBL26519	**3D084**
60	4	5	600V AC	Blue	HBL26520	**2AXH9**	—	—	—	—	—	—
Hospital Hubbellock												
20	2	3	125VAC	—	—	—	Gray	HBL23001HGB	**3D028**	Gray	HBL23004HG	**3D030** **
20	2	3	125VAC	—	—	—	—	—	—	Gray	HBL23014HGB	**3D033**
20	2	3	125V AC	Black	HBL23000HG	**3D027** #	—	—	—	—	—	—
50	2	3	250VAC	—	—	—	—	—	—	Gray	HBL25525	**3D062**
50	2	3	250V AC	Black	HBL25503	**3D061**	—	—	—	—	—	—
Flanged Inlet												
30/20	3	4	600V AC/250V DC	—	—	—	—	—	—	Gray	HBL20418	**3D505** †
50	3	4	600V AC/250V DC	—	—	—	—	—	—	Gray	HBL3775	**3D735**
50	3	4	600V AC/250V DC	—	—	—	—	—	—	Gray	HBL3768	**3D734** ‡
Accessories and Other Hubbellock Devices												
Weatherproof Plate for No. 3D015 (for FS/FD box mounting)										Aluminum	HBL20405	**3D016**
Receptacle Box for Nos. 3D085 and 3D086 Only										Aluminum	HBL26401	**3D076**
Adapter Plate, For Use with Receptacle Box No. 3D076										Aluminum	HBL26402	**2AXJ1**
45° Adapter for Receptacle Box No. 3D076										Aluminum	HBL26404	**3D078**
Explosionproof Plug with Epoxy Kit, 2-Pole, 3-Wire, 20A, 125V, Hospital Rated										Gray	HBL24312	**3D051**

**** Includes FS/FD indoor cover. † 30A at 600VAC, 20A at 250VDC. ‡ Includes lift cover. ** Epoxy filled. # Weatherproof plate for FS/FD box mounting available, use 6C615, see page 301.***

Connector
49YX81

Plug
49YX91

Receptacle
49YY04

BRYANT®

IEC Nonmetallic Watertight Pin and Sleeve Devices

Feature a tough, nylon housing that protects against cracking, warping, corrosion, and chemical abrasion. Neoprene sealing glands provide a water-tight seal. Solid brass pins provide contact reliability and superior conductivity.

				CONNECTOR		PLUG		RECEPTACLE	
Amps	Color	Voltage	Phase	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
2 Pole, 3 Wire									
20	Blue	250VAC	1	—	—	BRY320P6W	**49YX88**	BRY320R6W	**49YY01**
3 Pole, 4 Wire									
20	Red	480VAC	3	BRY420C7W	**49YX81**	BRY420P7W	**49YX92**	BRY420R7W	**49YY05**
30	Blue	250VAC	3	—	—	BRY430P9W	**49YX94**	—	—
30	Red	480VAC	3	BRY430C7W	**49YX82**	BRY430P7W	**49YX93**	BRY430R7W	**49YY06**
60	Blue	250VAC	3	BRY460C9W	**49YX85**	BRY460P9W	**49YX97**	BRY460R9W	**49YY08**
60	Red	480VAC	3	BRY460C7W	**49YX84**	BRY460P7W	**49YX96**	—	—
60	Black	600VAC	3	BRY460C5W	**49YX83**	BRY460P5W	**49YX95**	—	—
100	Orange	125/250VAC	1	—	—	BRY4100P12W	**49YX89**	BRY4100R12W	**49YY02**
100	Blue	250VAC	3	BRY4100C9W	**49YX80**	BRY4100P9W	**49YX91**	BRY4100R9W	**49YY04**
100	Red	480VAC	3	BRY4100C7W	**49YX79**	BRY4100P7W	**49YX90**	BRY4100R7W	**49YY03**
4 Pole, 5 Wire									
60	Blue	120/208VAC	3Y	BRY560C9W	**49YX87**	BRY560P9W	**49YX99**	BRY560R9W	**49YY11**
100	Blue	120/208VAC	3Y	BRY5100C9W	**49YX86**	BRY5100P9W	**49YX98**	BRY5100R9W	**49YY10**

2XB31

2XB50

2XB45

2XB79

Hubbell Single-Pole Connectors

Nonmetallic retaining screw locks contacts in place so they don't move within the housing. Special screw thread prevents installation 180° out of rotation and requires fewer turns, reducing the chance of a conductive screw being substituted. Multiple guides ease cutting to correct cable size. Large raised alignment arrow eases mating of devices. 600VAC/250VDC. Rated NEMA 3R, 4X and 12K. UL and C-UL Listed.

			FEMALE					MALE				
Amps AC/DC	Cable Range	Terminal Connec.	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Black Item No.	Blue Item No.	Green Item No.	Red Item No.	White Item No.
Connectors												
300AC/DC	6 to 2/0	Double Set Screw	**2XB25**	**2XB26**	**2XB27**	**2XB28**	**2XB29**	**2XB30**	**2XB31**	**2XB32**	**2XB33**	**2XB34**
400AC/DC	2/0 to 4/0	Double Set Screw	**2XB35**	**2XB36**	**2XB37**	**2XB38**	**2XB39**	**2XB40**	**2XB41**	**2XB42**	**2XB43**	**2XB44**
Receptacles												
400AC/DC	4 to 4/0	Double Set Screw	**2XB50**	**2XB51**	**2XB52**	**2XB53**	**2XB59**	**2XB65**	**2XB66**	**2XB67**	**2XB68**	**2XB74**
400AC/DC	N/A	Threaded Stud	**2XB54**	**2XB55**	**2XB56**	**2XB57**	**2XB58**	**2XB69**	**2XB70**	**2XB71**	**2XB72**	**2XB73**
Accessories												
Protective Caps for Connectors			**2XB45**	**2XB46**	**2XB47**	**2XB48**	**2XB49**	**2XB60**	**2XB61**	**2XB62**	**2XB63**	**2XB64**
Snap Back Covers for Receptacles, Fits Male and Female			**2XB75**	**2XB76**	**2XB77**	**2XB78**	**2XB79**	**2XB75**	**2XB76**	**2XB77**	**2XB78**	**2XB79**

Receptacle 5Z940

Connector 5Z942

Plug 5Z941

Inlet 3D765

HUBBELL® Wiring Device-Kellems

IEC Nonmetallic Watertight Pin and Sleeve Devices

Non-metallic housings are non-conductive, color coded by voltage and impact- and corrosion-resistant. Patented mechanical cord grips secure both the cable jacket and internal conductors to help ensure stress free terminations. One piece all brass pins and multi-contact springs provide superior conductivity for long-term reliable connections. Individual neoprene glands provide IP67 watertight performance withstanding wet and harsh environments. Receptacle back boxes are also available; see page 334.

					RECEPTACLE		CONNECTOR		PLUG		INLET	
Amps	Color	Voltage	Phase	HP	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
2-Pole, 3-Wire												
20	Yellow	125V AC	1	—	HBL320R4W	**5Z930**	HBL320C4W	**5Z932**	HBL320P4W	**5Z931**	HBL320B4W	**1VCJ6**
20	Blue	250V AC	1	—	HBL320R6W	**5Z933**	HBL320C6W	**5Z935**	HBL320P6W	**5Z934**	HBL320B6W	**1VCJ7**
20	Red	480V AC	1	—	HBL320R7W	**1VCK1**	HBL320C7W	**1VCJ8**	HBL320P7W	**1VCJ9**	HBL320B7W	**3D689**
30	Yellow	125V AC	1	—	HBL330R4W	**1VCK4**	HBL330C4W	**1VCK2**	HBL330P4W	**1VCK3**	HBL330B4W	**3D694**
30	Blue	250V AC	1	2 hp	HBL330R6W	**6C150**	HBL330C6W	**6C149**	HBL330P6W	**6C148**	HBL330B6W	**1VCK5**
30	Red	480V AC	1	—	HBL330R7W	**1VCK9**	HBL330C7W	**1VCK7**	HBL330P7W	**1VCK8**	HBL330B7W	**1VCK6**
60	Yellow	125V AC	1	—	HBL360R4W	**1VCL3**	HBL360C4W	**3D718**	HBL360P4W	**1VCL2**	HBL360B4W	**1VCL1**
60	Blue	250V AC	1	—	HBL360R6W	**3D122**	HBL360C6W	**3D120**	HBL360P6W	**3D121**	HBL360B6W	**1VCL4**
60	Red	480V AC	1	—	HBL360R7W	**1VCL8**	HBL360C7W	**1VCL6**	HBL360P7W	**1VCL7**	HBL360B7W	**1VCL5**
100	Yellow	125V AC	1	—	HBL3100R4W	**1VCJ2**	HBL3100C4W	**1VCH9**	HBL3100P4W	**1VCJ1**	HBL3100B4W	**1VCH8**
100	Blue	250V AC	1	15 hp	HBL3100R6W	**5Z922**	HBL3100C6W	**1VCJ4**	HBL3100P6W	**5Z923**	HBL3100B6W	**1VCJ3**
3-Pole, 4-Wire												
20	Orange	125/250V AC	1	—	HBL420R12W	**3D139**	HBL420C12W	**6C151**	HBL420P12W	**6C152**	HBL420B12W	**1VCN4**
20	Blue	250V AC	3	2 hp	HBL420R9W	**3D141**	HBL420C9W	**3D136**	HBL420P9W	**3D138**	HBL420B9W	**1VCN3**
20	Red	480V AC	3	5 hp	HBL420R7W	**6C126**	HBL420C7W	**5Z936**	HBL420P7W	**6C125**	HBL420B7W	**3D755**
20	Black	600V AC	3	7 ½ hp	HBL420R5W	**3D140**	HBL420C5W	**3D135**	HBL420P5W	**3D137**	HBL420B5W	**1VCN2**
30	Orange	125/250V AC	1	—	HBL430R12W	**3D151**	HBL430C12W	**3D144**	HBL430P12W	**3D149**	HBL430B12W	**1VCN5**
30	Blue	250V AC	3	3 hp	HBL430R9W	**5Z937**	HBL430C9W	**5Z939**	HBL430P9W	**5Z938**	HBL430B9W	**1VCN7**
30	Red	480V AC	3	7 ½ hp	—	—	HBL430C7W	**5Z942**	HBL430P7W	**5Z941**	HBL430B7W	**3D765**
30	Red	480V AC	3	15	HBL430R7W	**5Z940**	—	—	—	—	—	—
30	Black	600V AC	3	10 hp	HBL430R5W	**3D152**	HBL430C5W	**3D145**	HBL430P5W	**3D150**	HBL430B5W	**1VCN6**
60	Orange	125/250V AC	1	—	HBL460R12W	**6C585**	HBL460C12W	**6C580**	HBL460P12W	**6C584**	HBL460B12W	**3D154**
60	Blue	250V AC	3	5 hp	HBL460R9W	**5Z913**	HBL460C9W	**5Z915**	HBL460P9W	**5Z914**	HBL460B9W	**3D156**
60	Red	480V AC	3	10 hp	HBL460R7W	**5Z916**	HBL460C7W	**5Z918**	HBL460P7W	**5Z917**	HBL460B7W	**1VCN8**
60	Black	600V AC	3	15 hp	HBL460R5W	**3D164**	HBL460C5W	**3D157**	HBL460P5W	**3D162**	HBL460B5W	**3D794**
100	Orange	125/250V AC	1	—	HBL4100R12W	**6C557**	HBL4100C12W	**6C553**	HBL4100P12W	**6C555**	HBL4100B12W	**3D129**
100	Blue	250V AC	3	10 hp	HBL4100R9W	**6C558**	HBL4100C9W	**6C554**	HBL4100P9W	**6C556**	HBL4100B9W	**3D130**
100	Red	480V AC	3	30 hp	HBL4100R7W	**5Z925**	HBL4100C7W	**5Z927**	HBL4100P7W	**5Z926**	HBL4100B7W	**1VCN1**
100	Black	600V AC	3	30 hp	HBL4100R5W	**3D133**	HBL4100C5W	**3D131**	HBL4100P5W	**3D132**	HBL4100B5W	**1VCL9**
4-Pole, 5-Wire												
20	Blue	120/208V AC	3Y	½ hp	HBL520R9W	**5C778**	HBL520C9W	**5C780**	HBL520P9W	**5C779**	HBL520B9W	**1VCR3**
20	Red	277/480V AC	3Y	5 hp	HBL520R7W	**3D179**	HBL520C7W	**1VCR2**	HBL520P7W	**3D178**	HBL520B7W	**1VCR1**
20	Black	347/600V AC	3Y	7 ½ hp	HBL520R5W	**1VCP9**	HBL520C5W	**3D851**	HBL520P5W	**1VCP8**	HBL520B5W	**3D848**
30	Blue	120/208V AC	3Y	2 hp	HBL530R9W	**1XC54**	HBL530C9W	**1VCR9**	HBL530P9W	**5C781**	HBL530B9W	**1VCR8**
30	Red	277/480V AC	3Y	7 ½ hp	—	—	HBL530C7W	**1VCR7**	HBL530P7W	**6C601**	HBL530B7W	**1VCR6**
30	Black	347/600V AC	3Y	10 hp	HBL530R5W	**3D888**	HBL530C5W	**3D881**	HBL530P5W	**1VCR5**	HBL530B5W	**1VCR4**
60	Blue	120/208V AC	3Y	3 hp	HBL560R9W	**5Z919**	HBL560C9W	**5Z921**	HBL560P9W	**5Z920**	HBL560B9W	**3D214**
60	Red	277/480V AC	3Y	10 hp	HBL560R7W	**3D217**	HBL560C7W	**1VCT6**	HBL560P7W	**3D216**	HBL560B7W	**1VCT5**
60	Black	347/600V AC	3Y	15 hp	HBL560R5W	**1VCT4**	HBL560C5W	**1VCT2**	HBL560P5W	**1VCT3**	HBL560B5W	**1VCT1**
100	Blue	120/208V AC	3Y	10 hp	HBL5100R9W	**5Z928**	HBL5100C9W	**6C129**	HBL5100P9W	**5Z929**	HBL5100B9W	**6C591**
100	Red	277/480V AC	3Y	30 hp	HBL5100R7W	**1VCP6**	HBL5100C7W	**1VCP4**	HBL5100P7W	**1VCP5**	HBL5100B7W	**1VCP3**
100	Black	347/600V AC	3Y	30 hp	HBL5100R5W	**1VCP2**	HBL5100C5W	**1VCN9**	HBL5100P5W	**1VCP1**	HBL5100B5W	**3D835**
125	Red	240/415V AC	3Y	—	HBL5100R6WP	**3D175**	HBL5100C6WP	**3D173**	—	—	HBL5100B6WP	**1VCP7**
Replacement Parts and Accessories												
Watertight Cover Assembly, For Use With 20A Female Watertight Pin And Sleeve Devices											CA420	**4D170**
Watertight Cover Assembly, For Use With 30A Female Watertight Pin And Sleeve Devices with Molded-In Mfr Model Number Beginning With CA											CA3430	**4D169**
Watertight Cover Assembly, For Use With 60A Female Watertight Pin And Sleeve Devices											CA60	**4D173**
Liquid Tight Adapter, For Use With 30A 5 Wire and all 60A Pin And Sleeve Devices											SAC100	**4D549**

HUBBELL® Wiring Device-Kellems

IEC Switch Rated Pin and Sleeve Devices

The Advantage Series Switch-Rated Devices are IEC 60309-2 compatible devices that are approved as a disconnecting means for motor and branch circuits. These devices feature an oversized spring-loaded disconnect button, superior horsepower ratings and UL witnessed IP69k and UL Type 4X water ingress protection.

					CONNECTOR		RECEPTACLE	
Amps	Color	Voltage	Phase	HP	Mfr. Model	Item No.	Mfr. Model	Item No.
2-Pole, 3-Wire								
30	Yellow	125V AC	1	2 hp	HBLS330C4W	**44ZD70**	HBLS330R4W	**44ZD80**
30	Blue	250V AC	1	5 hp	HBLS330C6W	**44ZD83**	HBLS330R6W	**44ZD72**
30	Red	480V AC	1	10 hp	HBLS330C7W	**44ZD60**	HBLS330R7W	**44ZD67**
32	Yellow	125V AC	1	2 hp	HBLS332C4W	**44ZD62**	HBLS332R4W	**44ZD64**
3-Pole, 4-Wire								
30	Orange	125/250V AC	1	2 hp	HBLS430C12W	**44ZD73**	HBLS430R12W	**44ZD61**
30	Blue	250V AC	3	10 hp	HBLS430C9W	**44ZD78**	HBLS430R9W	**44ZD74**
30	Red	380/415V AC	3	7 ½ hp	HBLS430C6W	**44ZD69**	HBLS430R6W	**44ZD59**
30	Red	480V AC	3	20 hp	HBLS430C7W	**44ZD56**	HBLS430R7W	**44ZD58**
30	Black	600V AC	3	30 hp	HBLS430C5W	**44ZD57**	HBLS430R5W	**44ZD71**
32	Red	380/440V AC	1	10 hp	HBLS432C3W	**44ZD79**	HBLS432R3W	**44ZD76**
4-Pole, 5-Wire								
30	Blue	120/208V AC	3	10 hp	HBLS530C9W	**44ZD66**	HBLS530R9W	**44ZD68**
30	Red	240/415V AC	3	7 ½ hp	HBLS530C6W	**44ZD63**	HBLS530R6W	**44ZD81**
30	Red	277/480V AC	3	20 hp	HBLS530C7W	**44ZD82**	HBLS530R7W	**44ZD65**
30	Black	347/600V AC	3	30 hp	HBLS530C5W	**44ZD77**	HBLS530R5W	**44ZD75**

44ZD70

44ZD61

Connector
5HJ20

Receptacle
5HJ25

Plug
5HJ23

Type 4X Pin and Sleeve Devices

HUBBELL® Wiring Device-Kellems

Interchangeable with traditional all-metallic pin and sleeve devices built to UL 1686-C1. Insulgrip® pin and sleeve plugs and connectors have a metallic shroud to provide ground and protect pins, and a watertight, nonmetallic housing for corrosion resistance and electrical safety. Style I plugs and connectors ground through their metallic shroud, and receptacles are grounded via ground lug in the aluminum back box. Style II devices have a dual-ground safety feature using dedicated ground pin. Receptacle back boxes available; see this page. Gray color.

Amps	No. of Poles	No. of Wires	Voltage	Phase	RECEPTACLE Mfr. Model	RECEPTACLE Item No.	CONNECTOR Mfr. Model	CONNECTOR Item No.	PLUG Mfr. Model	PLUG Item No.
Grounding Style 1										
30	3	4	600V AC/250V DC	3	HBL430RS1W	**5HJ24**	HBL430CS1W	**5HJ20**	HBL430PS1W	**5HJ22**
60	2	3	600V AC/250V DC	1	HBL360RS1W	**4TAD5**	HBL360CS1W	**4TAD2**	HBL360PS1W	**5HJ10**
60	3	4	600V AC/250V DC	3	HBL460RS1W	**5HJ30**	HBL460CS1W	**5HJ26**	HBL460PS1W	**5HJ28**
60	4	5	600V AC/250V DC	3	HBL560RS1W	**5HJ40**	HBL560CS1W	**5HJ38**	HBL560PS1W	**5HJ39**
100	3	4	600V AC/250V DC	3	HBL4100RS1W	**5HJ18**	HBL4100CS1W	**4TAD6**	HBL4100PS1W	**5HJ16**
100	4	5	600V AC/250V DC	3	HBL5100RS1W	**5HJ34**	HBL5100CS1W	**5HJ32**	HBL5100PS1W	**5HJ33**
Grounding Style 2										
30	3	4	600V AC/250V DC	3	HBL430RS2W	**5HJ25**	HBL430CS2W	**5HJ21**	HBL430PS2W	**5HJ23**
60	2	3	600V AC/250V DC	1	HBL360RS2W	**5HJ13**	HBL360CS2W	**4TAD3**	HBL360PS2W	**4TAD4**
60	3	4	600V AC/250V DC	3	HBL460RS2W	**5HJ31**	HBL460CS2W	**5HJ27**	HBL460PS2W	**5HJ29**
100	2	3	600V AC/250V DC	1	HBL3100RS2W	**5HJ01**	HBL3100CS2W	**4TAC9**	HBL3100PS2W	**4TAD1**
100	3	4	600V AC/250V DC	3	HBL4100RS2W	**5HJ19**	HBL4100CS2W	**5HJ15**	HBL4100PS2W	**5HJ17**

4CT37

5HJ41

Boxes for Pin and Sleeve Receptacles and Inlets

HUBBELL® Wiring Device-Kellems

Nonmetallic models are high-grade thermoplastic; they resist chemicals, abuse, and UV rays, and meet NEMA Type 4X when installed with watertight conduit hub. Metallic models are cast-aluminum with gray enamel paint for corrosion resistance.

Amps	Item	Material	Angle	Hub	Mfr. Model	Item No.
For Standard, IEC 309 Series*						
20/30	Angle Back Box	Metallic	15°	¾ in	BB201W	**6C127**
20/30	Angle Back Box	Metallic	15°	1 in	BB301W	**6C128**
20/30	Angle Back Box	Nonmetallic	15°	1 in	BB2030N	**4CT37**
20/30	Angle Adapter Box	Aluminum	—	—	AA2030PS	**3D301**
60	Angle Back Box	Metallic	15°	1 ¼ in	BB601W	**6C130**
60	Angle Back Box	Nonmetallic	15°	1 ¼ in	BB60N	**4CT38**
60/100	4-Way Angle Back Box	Metallic	15°	1 ½ in	FW60/100	**6C640**
100/125	Angle Back Box	Metallic	15°	1 ½ in	BB1001W	**6C131**
100/125	Angle Back Box	Nonmetallic	15°	1 ½ in	BB100N	**4CT36**
For Killark®, VersaMate®, and Hubbell®, Insulgrip®, NEC Devices†						
30	Angle Back Box	Metallic	15°	¾ in	MB301W	**5HJ41**
30	Angle Back Box	Metallic	15°	1 in	MB302W	**5HJ42**
30	Back Box	Metallic	Straight	¾ in	MB303W	**5HJ43**
60/100	4-Way Angle Back Box	Metallic	15°	1 ¼ in	MB601002W	**5HJ45**
60/100	4-Way Angle Back Box	Metallic	15°	1 ½ in	MB601003W	**5HJ46**
60/100	4-Way Angle Back Box	Metallic	15°	2 in	MB601004W	**5HJ47**
60/100	Angle Back Box	Metallic	15°	1 ¼ in	MB601006W	**5HJ48**
60/100	Angle Back Box	Metallic	15°	1 ½ in	MB601007W	**5HJ49**
60	Angle Back Box	Metallic	15°	1 in	MB601W	**5HJ51**
60	Angle Back Box	Metallic	15°	1 ¼ in	MB602W	**5HJ52**
60	Back Box	Metallic	Straight	1 in	MB604W	**5HJ54**

** See page 333 for IEC 309 Series. † See this page for NEC devices.*

Circuit-Lock Watertight Mechanical Interlock Devices

HUBBELL® Wiring Device-Kellems

3D147

- Lockable in Off position
- UL Type 4X, 12K watertight enclosures
- Use appropriate Class J time-delay fuse (see page 180)

Space-saving, nonmetallic units incorporate disconnect and receptacle. Meets NEC requirement for a separate disconnect means within sight of motor loads. Arc protection: The devices cannot be turned on without the proper plug fully inserted, and with power On, the plug cannot be removed.

Amps	No. of Poles	No. of Wires	HP	Voltage	Phase	Accepts Plug No.	Mfr. Model	Item No.
IEC 309 Series, Fused								
30 A	3	4	15 hp	480V AC	Three	5Z941	HBL430MIF7W	**3D147**
60 A	3	4	30 hp	480V AC	Three	5Z917	HBL460MIF7W	**3D160**
IEC 309 Series, Nonfused								
20 A	3	4	2 hp	120/240V AC	Single	6C152	HBL420MI12W	**1TJZ6**
20 A	3	4	5 hp	250V AC	Three	3D138	HBL420MI9W	**1TJZ4**
20 A	3	4	10 hp	480V AC	Three	6C125	HBL420MI7W	**1TJZ3**
20 A	3	4	10 hp	600V AC	Three	3D137	HBL420MI5W	**1TJZ5**
30 A	3	4	3 hp	120/240V AC	Three	3D149	HBL430MI12W	**21XL21**
30 A	3	4	7 ½ hp	250V AC	Three	5Z938	HBL430MI9W	**6C574**
30 A	3	4	15 hp	480V AC	Three	5Z941	HBL430MI7W	**6C573**
30 A	3	4	20 hp	600V AC	Three	3D150	HBL430MI5W	**6C572**
30 A	4	5	15 hp	480V AC	Three	6C601	HBL530MI7W	**21XL25**
60 A	3	4	7 ½ hp	120/240V AC	Three	6C584	HBL460MI12W	**21XL22**
60 A	3	4	15 hp	250V AC	Three	5Z914	HBL460MI9W	**2EAU9**
60 A	3	4	30 hp	480V AC	Three	5Z917	HBL460MI7W	**6C582**
60 A	3	4	40 hp	600V AC	Three	3D162	HBL460MI5W	**6C581**
60 A	4	5	15 hp	120/208V AC	Three	5Z920	HBL560MI9W	**6C609**
60 A	4	5	40 hp	347/600V AC	Three	—	HBL560MI5W	**6C608**
100 A	3	4	15 hp	120/240V AC	Single	6C555	HBL4100MI12W	**21XL19**
100 A	3	4	25 hp	250V AC	Three	6C556	HBL4100MI9W	**2EAU8**
100 A	3	4	50 hp	480V AC	Three	5Z926	HBL4100MI7W	**4CT27**
100 A	3	4	50 hp	600V AC	Three	3D132	HBL4100MI5W	**21XL20**
100 A	4	5	20 hp	250V AC	Three	5Z929	HBL5100MI9W	**21XL24**
Insulgrip UL1686 Series, Fused								
30 A	3	4	20 hp	600V AC/250V DC	Three	5HJ23	HBL430MIFS2W	**1TJZ7**
60 A	3	4	50 hp	600V AC/250V DC	Three	5HJ29	HBL460MIFS2W	**1TJZ8**
Insulgrip UL1686 Series, Nonfused								
30 A	3	4	20 hp	600V AC/250V DC	Three	5HJ23	HBL430MIS2W	**1TJZ9**
60 A	3	4	50 hp	600V AC/250V DC	Three	5HJ29	HBL460MIS2W	**1TKA1**

Plug
4CV28

Angle Receptacle
4CV48

Receptacle, Surface Mount
4CV49

Receptacle, Semi Flush Mount
4CV50

Safety-Shroud Twist-Locks®

HUBBELL® Wiring Device-Kellems

Molded thermoplastic shrouds eliminate any possible user contact with energized or partially connected plugs, and keep blades from bending.

Amps	NEMA Config.	No. of Poles	No. of Wires	HP	Voltage	PLUG Mfr. Model	PLUG Item No.	ANGLE RECEPTACLE, FLUSH MOUNT Mfr. Model	ANGLE RECEPTACLE, FLUSH MOUNT Item No.	RECEPTACLE, SURFACE MOUNT Mfr. Model	RECEPTACLE, SURFACE MOUNT Item No.	RECEPTACLE, SEMI FLUSH MOUNT Mfr. Model	RECEPTACLE, SEMI FLUSH MOUNT Item No.
1-Phase													
20	L5-20	2	3	1.0	125VAC	HBL2311S	**4CT64**	HBL2310AR	**4CT60**	HBL2310SR	**4CT61**	HBL2310SR2	**4CT62**
20	L6-20	2	3	2.0	250VAC	HBL2321S	**4CT72**	HBL2320AR	**4CT68**	HBL2320SR	**4CT69**	HBL2320SR2	**4CT70**
20	L14-20	3	4	1 Line to Neutral, 2 Line to Line	125/250VAC	HBL2411S	**4CT88**	—	—	HBL2410SR	**4CT85**	—	—
30	L5-30	2	3	1.0	125VAC	HBL2611S	**4CV20**	HBL2610AR	**4CV17**	HBL2610SR	**4CV18**	—	—
30	L6-30	2	3	2.0	250VAC	HBL2621S	**4CV28**	HBL2620AR	**4CV24**	HBL2620SR	**4CV25**	HBL2620SR2	**4CV26**
30	L14-30	3	4	2.0	125/250VAC	HBL2711S	**4CV36**	HBL2710AR	**4CV32**	HBL2710SR	**4CV33**	HBL2710SR2	**4CV34**
3-Phase													
20	L15-20	3	4	3.0	250VAC	HBL2421S	**4CT96**	HBL2420AR	**4CT92**	HBL2420SR	**4CT93**	HBL2420SR2	**4CT94**
20	L16-20	3	4	5.0	480VAC	HBL2431S	**4CV05**	HBL2430AR	**4CV01**	HBL2430SR	**4CV02**	HBL2430SR2	**4CV03**
20	L21-20	4	5	2.0	120/208VAC	HBL2511S	**4CV13**	HBL2510AR	**4CV09**	HBL2510SR	**4CV10**	—	—
30	L15-30	3	4	3.0	250VAC	HBL2721S	**4CV44**	HBL2720AR	**4CV40**	HBL2720SR	**4CV41**	HBL2720SR2	**4CV42**
30	L16-30	3	4	10.0	480VAC	HBL2731S	**4CV52**	HBL2730AR	**4CV48**	HBL2730SR	**4CV49**	HBL2730SR2	**4CV50**
30	L17-30	3	4	10.0	600VAC	HBL2741S	**4CV60**	—	—	HBL2740SR	**4CV57**	HBL2740SR2	**4CV58**
30	L21-30	4	5	3.0	120/208VAC	HBL2811S	**4CV68**	HBL2810AR	**4CV64**	HBL2810SR	**4CV65**	—	—

Southwire®

Building Wire

- PVC insulation with nylon jacket
- Rated for 600V

This wire carries electrical current from a power source to a device in a building, such as an outlet or light fixture. Building wire is typically used to run new circuits or extend old circuits inside walls and ceilings in commercial, industrial, and residential properties. **Solid** conductors are tougher and more rigid than stranded. **Stranded** conductors are more flexible than solid and can withstand vibrations and flexing. **THHN** (thermoplastic high-heat-resistant nylon) building wire is a coated wire typically run through conduit or cable trays. **XHHW** (cross-linked polyethylene high-heat-resistant water-resistant) building wire is a coated wire typically run through raceways.

3ZK49

Wire Size	Jacket Color	L	Item No.
THHN Building Wire			
Stranded			
14 AWG	Beige	500 ft	**4WZD1**
14 AWG	Beige	2,500 ft	**4WZE4**
14 AWG	Black	50 ft	**5FZY1**
14 AWG	Black	100 ft	**4WZC4**
14 AWG	Black	500 ft	**6X794**
14 AWG	Black	2,500 ft	**4WZD2**
14 AWG	Blue	500 ft	**6X797**
14 AWG	Blue	2,500 ft	**4WZD6**
14 AWG	Brown	500 ft	**5C982**
14 AWG	Brown	2,500 ft	**4WZD8**
14 AWG	Gray	500 ft	**5C984**
14 AWG	Gray	2,500 ft	**4WZE1**
14 AWG	Green	50 ft	**5FZY4**
14 AWG	Green	100 ft	**4WZC7**
14 AWG	Green	500 ft	**2W407**
14 AWG	Green	2,500 ft	**4WZD7**
14 AWG	Orange	500 ft	**5C983**
14 AWG	Orange	2,500 ft	**4WZD9**
14 AWG	Pink	500 ft	**4WZC8**
14 AWG	Pink	2,500 ft	**4WZE2**
14 AWG	Purple	500 ft	**4WZC9**
14 AWG	Purple	2,500 ft	**4WZE3**
14 AWG	Red	50 ft	**5FZY3**
14 AWG	Red	100 ft	**4WZC6**
14 AWG	Red	500 ft	**6X795**
14 AWG	Red	2,500 ft	**4WZD4**
14 AWG	White	50 ft	**5FZY2**
14 AWG	White	100 ft	**4WZC5**
14 AWG	White	500 ft	**6X793**
14 AWG	White	2,500 ft	**4WZD3**
14 AWG	Yellow	500 ft	**6X796**
14 AWG	Yellow	2,500 ft	**4WZD5**
12 AWG	Beige	500 ft	**4WZF2**
12 AWG	Beige	2,500 ft	**4WZG5**
12 AWG	Black	50 ft	**5FZY5**
12 AWG	Black	100 ft	**4WZE5**
12 AWG	Black	500 ft	**2W285**
12 AWG	Black	1,000 ft	**38NF51**
12 AWG	Black	2,500 ft	**4WZF3**
12 AWG	Black/Green/White	350 ft	**38NF44** *
12 AWG	Black/White	2,000 ft	**55CX59**
12 AWG	Blue	500 ft	**4W014**
12 AWG	Blue	1,000 ft	**55CX58**
12 AWG	Blue	2,500 ft	**4WZF7**
12 AWG	Blue/White	2,000 ft	**55CX61**
12 AWG	Brown	500 ft	**5C985**
12 AWG	Brown	1,000 ft	**55CX54**
12 AWG	Brown	2,500 ft	**4WZF9**
12 AWG	Gray	500 ft	**5C987**
12 AWG	Gray	1,000 ft	**55CX57**
12 AWG	Gray	2,500 ft	**4WZG2**
12 AWG	Green	50 ft	**5FZY8**
12 AWG	Green	100 ft	**4WZE8**
12 AWG	Green	500 ft	**2W406**
12 AWG	Green	1,000 ft	**38NF50**
12 AWG	Green	2,500 ft	**4WZF8**
12 AWG	Green/Yellow	2,000 ft	**55CX62**
12 AWG	Orange	500 ft	**5C986**
12 AWG	Orange	1,000 ft	**55CX55**
12 AWG	Orange	2,000 ft	**55CX63**
12 AWG	Orange	2,500 ft	**4WZG1**
12 AWG	Pink	500 ft	**4WZE9**
12 AWG	Pink	2,000 ft	**55CX66**
12 AWG	Pink	2,500 ft	**4WZG3**
12 AWG	Purple	500 ft	**4WZF1**
12 AWG	Purple	2,000 ft	**55CX65**
12 AWG	Purple	2,500 ft	**4WZG4**
12 AWG	Red	50 ft	**5FZY7**
12 AWG	Red	100 ft	**4WZE7**
12 AWG	Red	500 ft	**2W286**
12 AWG	Red	1,000 ft	**38NF49**
12 AWG	Red	2,500 ft	**4WZF5**
12 AWG	Red/White	2,000 ft	**55CX60**
12 AWG	White	50 ft	**5FZY6**
12 AWG	White	100 ft	**4WZE6**
12 AWG	White	500 ft	**2W284**
12 AWG	White	1,000 ft	**38NF52**
12 AWG	White	2,500 ft	**4WZF4**
12 AWG	Yellow	500 ft	**4W013**
12 AWG	Yellow	1,000 ft	**55CX56**
12 AWG	Yellow	2,000 ft	**55CX64**
12 AWG	Yellow	2,500 ft	**4WZF6**
10 AWG	Black	50 ft	**31HK02**
10 AWG	Black	100 ft	**4WZH1**
10 AWG	Black	500 ft	**4W008**
10 AWG	Black	1,250 ft	**55CX67**
10 AWG	Black	2,500 ft	**4WZH8**
10 AWG	Black/White	1,250 ft	**55CX71**
10 AWG	Blue	500 ft	**4W011**
10 AWG	Blue	1,250 ft	**55CX69**
10 AWG	Blue	2,500 ft	**4WZJ3**
10 AWG	Blue/White	1,250 ft	**55CX72**
10 AWG	Brown	500 ft	**5C988**
10 AWG	Brown	2,500 ft	**4WZJ5**
10 AWG	Gray	500 ft	**5C990**
10 AWG	Gray	2,500 ft	**4WZJ7**
10 AWG	Green	50 ft	**31HK04**
10 AWG	Green	100 ft	**4WZH4**
10 AWG	Green	500 ft	**4W012**
10 AWG	Green	1,250 ft	**55CX73**
10 AWG	Green	2,500 ft	**4WZJ4**
10 AWG	Green/Yellow	1,250 ft	**55CX74**
10 AWG	Orange	500 ft	**5C989**
10 AWG	Orange	1,250 ft	**55CX75**
10 AWG	Orange	2,500 ft	**4WZJ6**
10 AWG	Pink	500 ft	**4WZH5**
10 AWG	Pink	1,250 ft	**55CX78**
10 AWG	Pink	2,500 ft	**4WZJ8**
10 AWG	Purple	500 ft	**4WZH6**
10 AWG	Purple	1,250 ft	**55CX77**
10 AWG	Purple	2,500 ft	**4WZJ9**
10 AWG	Red	50 ft	**31HK05**
10 AWG	Red	100 ft	**4WZH3**
10 AWG	Red	500 ft	**4W009**
10 AWG	Red	1,250 ft	**55CX68**
10 AWG	Red	2,500 ft	**4WZJ1**
10 AWG	White	50 ft	**31HK03**
10 AWG	White	100 ft	**4WZH2**
10 AWG	White	500 ft	**4W007**
10 AWG	White	1,250 ft	**55CX70**
10 AWG	White	2,500 ft	**4WZH9**
10 AWG	Yellow	500 ft	**4W010**
10 AWG	Yellow	1,250 ft	**55CX76**
10 AWG	Yellow	2,500 ft	**4WZJ2**
8 AWG	Black	100 ft	**4WZK2**
8 AWG	Black	500 ft	**3ZK50**
8 AWG	Blue	500 ft	**4WZK8**
8 AWG	Brown	500 ft	**4WZL1**
8 AWG	Gray	500 ft	**4WZL3**
8 AWG	Green	100 ft	**55CX52**
8 AWG	Green	500 ft	**4WZK9**
8 AWG	Orange	500 ft	**4WZL2**
8 AWG	Purple	500 ft	**4WZL4**
8 AWG	Red	100 ft	**4WZK4**
8 AWG	Red	500 ft	**4WZK6**
8 AWG	White	100 ft	**4WZK3**
8 AWG	White	500 ft	**4WZK5**
8 AWG	Yellow	500 ft	**4WZK7**
6 AWG	Black	100 ft	**4WZL5**
6 AWG	Black	500 ft	**3ZK49**
6 AWG	Blue	500 ft	**4WZN2**
6 AWG	Brown	500 ft	**4WZN4**
6 AWG	Gray	500 ft	**4WZN6**
6 AWG	Green	100 ft	**55CX53**
6 AWG	Green	500 ft	**4WZN3**
6 AWG	Orange	500 ft	**4WZN5**
6 AWG	Purple	500 ft	**4WZN7**
6 AWG	Red	100 ft	**4WZL7**
6 AWG	Red	500 ft	**4WZL9**
6 AWG	White	100 ft	**4WZL6**
6 AWG	White	500 ft	**4WZL8**
6 AWG	Yellow	500 ft	**4WZN1**
4 AWG	Black	500 ft	**5ZG91**
4 AWG	Blue	500 ft	**4WZP2**
4 AWG	Brown	500 ft	**4WZP4**
4 AWG	Green	500 ft	**4WZP3**
4 AWG	Orange	500 ft	**4WZP5**
4 AWG	Red	500 ft	**4WZN9**
4 AWG	White	500 ft	**4WZN8**
4 AWG	Yellow	500 ft	**4WZP1**
3 AWG	Black	500 ft	**5ZG90**
3 AWG	Blue	500 ft	**4WZP8**
3 AWG	Green	500 ft	**4WZP9**
3 AWG	Red	500 ft	**4WZP7**
3 AWG	White	500 ft	**4WZP6**
2 AWG	Black	500 ft	**5ZG89**
2 AWG	Blue	500 ft	**4WZR3**
2 AWG	Brown	500 ft	**4WZR5**
2 AWG	Green	500 ft	**4WZR4**
2 AWG	Red	500 ft	**4WZR2**
2 AWG	White	500 ft	**4WZR1**
1 AWG	Black	500 ft	**5ZG88**
1 AWG	Red	500 ft	**4WZR7**
1 AWG	White	500 ft	**4WZR6**
1/0	Black	500 ft	**5ZG92**
1/0	Green	500 ft	**4WZT1**
1/0	White	500 ft	**4WZR9**
2/0	Black	500 ft	**5ZG93**
2/0	Green	500 ft	**4WZT2**
3/0	Black	500 ft	**5ZG94**
4/0	Black	500 ft	**5ZG95**
4/0	Green	500 ft	**4WZT3**
250 MCM	Black	500 ft	**5ZG96**
Solid			
14 AWG	Beige	2,500 ft	**4WYV8**
14 AWG	Black	50 ft	**5FZX3**
14 AWG	Black	100 ft	**4WYU2**
14 AWG	Black	500 ft	**4W187**
14 AWG	Black	2,500 ft	**4WYU6**
14 AWG	Blue	500 ft	**4W190**
14 AWG	Blue	2,500 ft	**4WYV1**
14 AWG	Brown	500 ft	**5C973**
14 AWG	Brown	2,500 ft	**4WYV3**
14 AWG	Gray	500 ft	**5C975**
14 AWG	Gray	2,500 ft	**4WYV5**
14 AWG	Green	50 ft	**5FZX6**
14 AWG	Green	100 ft	**4WYU5**
14 AWG	Green	500 ft	**4W191**
14 AWG	Green	2,500 ft	**4WYV2**
14 AWG	Orange	500 ft	**5C974**
14 AWG	Orange	2,500 ft	**4WYV4**
14 AWG	Pink	500 ft	**4WYV9**
14 AWG	Pink	2,500 ft	**4WYV6**
14 AWG	Purple	500 ft	**4WYW1**
14 AWG	Purple	2,500 ft	**4WYV7**
14 AWG	Red	50 ft	**5FZX5**
14 AWG	Red	100 ft	**4WYU4**
14 AWG	Red	500 ft	**4W188**
14 AWG	Red	2,500 ft	**4WYU8**
14 AWG	White	50 ft	**5FZX4**
14 AWG	White	100 ft	**4WYU3**
14 AWG	White	500 ft	**4W186**
14 AWG	White	2,500 ft	**4WYU7**
14 AWG	Yellow	500 ft	**4W189**
14 AWG	Yellow	2,500 ft	**4WYU9**
12 AWG	Beige	2,500 ft	**4WYY3**
12 AWG	Black	50 ft	**5FZX7**
12 AWG	Black	100 ft	**4WYW3**
12 AWG	Black	500 ft	**4W193**
12 AWG	Black	1,000 ft	**38NF47**
12 AWG	Black	2,500 ft	**4WYX1**
12 AWG	Black/Green/White	350 ft	**38NF43** *
12 AWG	Blue	500 ft	**4W196**
12 AWG	Blue	2,500 ft	**4WYX5**
12 AWG	Brown	500 ft	**5C976**
12 AWG	Brown	2,500 ft	**4WYX7**
12 AWG	Gray	500 ft	**5C978**
12 AWG	Gray	2,500 ft	**4WYX9**
12 AWG	Green	50 ft	**5FZY0**
12 AWG	Green	100 ft	**4WYW6**
12 AWG	Green	500 ft	**4W197**
12 AWG	Green	1,000 ft	**38NF46**
12 AWG	Green	2,500 ft	**4WYX6**
12 AWG	Orange	500 ft	**5C977**
12 AWG	Orange	2,500 ft	**4WYX8**
12 AWG	Pink	500 ft	**4WYW7**
12 AWG	Pink	2,500 ft	**4WYY1**
12 AWG	Purple	500 ft	**4WYW8**
12 AWG	Purple	2,500 ft	**4WYY2**
12 AWG	Red	50 ft	**5FZX9**
12 AWG	Red	100 ft	**4WYW5**
12 AWG	Red	500 ft	**4W194**
12 AWG	Red	1,000 ft	**38NF45**
12 AWG	Red	2,500 ft	**4WYX3**
12 AWG	White	50 ft	**5FZX8**
12 AWG	White	100 ft	**4WYW4**
12 AWG	White	500 ft	**4W192**
12 AWG	White	1,000 ft	**38NF48**
12 AWG	White	2,500 ft	**4WYX2**
12 AWG	Yellow	500 ft	**4W195**
12 AWG	Yellow	2,500 ft	**4WYX4**
10 AWG	Black	50 ft	**4WYY4**
10 AWG	Black	100 ft	**4WYY8**
10 AWG	Black	500 ft	**3ZK45**
10 AWG	Black	2,500 ft	**4WZA2**
10 AWG	Blue	500 ft	**4WYZ4**
10 AWG	Blue	2,500 ft	**4WZA6**
10 AWG	Brown	500 ft	**4WYZ5**
10 AWG	Brown	2,500 ft	**4WZA8**
10 AWG	Gray	500 ft	**4WYZ7**
10 AWG	Gray	2,500 ft	**4WZC1**
10 AWG	Green	50 ft	**4WYY7**
10 AWG	Green	100 ft	**4WYZ2**
10 AWG	Green	500 ft	**3ZK48**
10 AWG	Green	2,500 ft	**4WZA7**
10 AWG	Orange	500 ft	**4WYZ6**
10 AWG	Orange	2,500 ft	**4WZA9**
10 AWG	Pink	500 ft	**4WYZ8**
10 AWG	Pink	2,500 ft	**4WZC2**
10 AWG	Purple	500 ft	**4WYZ9**
10 AWG	Purple	2,500 ft	**4WZC3**
10 AWG	Red	50 ft	**4WYY6**
10 AWG	Red	100 ft	**4WYZ1**
10 AWG	Red	500 ft	**3ZK47**
10 AWG	Red	2,500 ft	**4WZA4**
10 AWG	White	50 ft	**4WYY5**
10 AWG	White	100 ft	**4WYY9**
10 AWG	White	500 ft	**3ZK46**
10 AWG	White	2,500 ft	**4WZA3**
10 AWG	Yellow	500 ft	**4WYZ3**
10 AWG	Yellow	2,500 ft	**4WZA5**
XHHW Building Wire			
Stranded			
14 AWG	Black	500 ft	**55CW97**
14 AWG	Blue	500 ft	**55CX01**
14 AWG	Brown	500 ft	**55CX05**
14 AWG	Green	500 ft	**55CX02**
14 AWG	Orange	500 ft	**55CX04**
14 AWG	Red	500 ft	**55CW99**
14 AWG	White	500 ft	**55CW98**
14 AWG	Yellow	500 ft	**55CX03**
12 AWG	Black	500 ft	**55CX06**
12 AWG	Blue	500 ft	**55CX09**
12 AWG	Brown	500 ft	**55CX13**
12 AWG	Green	500 ft	**55CX10**
12 AWG	Orange	500 ft	**55CX12**
12 AWG	Red	500 ft	**55CX08**
12 AWG	White	500 ft	**55CX07**
12 AWG	Yellow	500 ft	**55CX11**
10 AWG	Black	500 ft	**55CX14**
10 AWG	Blue	500 ft	**55CX17**
10 AWG	Brown	500 ft	**55CX21**
10 AWG	Green	500 ft	**55CX18**
10 AWG	Orange	500 ft	**55CX20**
10 AWG	Red	500 ft	**55CX16**
10 AWG	White	500 ft	**55CX15**
10 AWG	Yellow	500 ft	**55CX19**

*** Number of Conductors: 3**

CAROL BRAND

Bus Drop and Tray Cable

1YPX1

These are service cords that connect a power supply to a machine or device. They have two or more insulated conductors and a protective jacket that resists abrasion, water, sunlight, and lubricants. **Bus drop cable** is typically used as a branch connection from a ceiling cable. **Tray cable** is primarily used for wiring installations in open-air raceways and trays.

Wire Size	Jacket Color	Wire Color	L	Item No.
Bus Drop Cable Type, PVC Jacket Material				
3 Conductors				
14 AWG	Gray	Black, Red, White	250 ft	**1YPX1**
12 AWG	Gray	Black, Red, White	250 ft	**3ZK69**
10 AWG	Gray	Black, Red, White	250 ft	**3ZK68**
8 AWG	Gray	Black, Red, White	250 ft	**1YPX2**
6 AWG	Gray	Black, Red, White	250 ft	**1YPX3**
4 AWG	Gray	Black, Red, White	250 ft	**4DPE3**
2 AWG	Gray	Black, Red, White	250 ft	**4DPE4**
TC Cable Type, PVC Jacket Material				
3 Conductors				
12 AWG	Black	Black with White Numbers	500 ft	**1UNG9**
8 AWG	Black	Black with White Numbers	500 ft	**1UNH2**
6 AWG	Black	Black with White Numbers	500 ft	**1UNH3**
4 AWG	Black	Black with White Numbers	500 ft	**1UNH5**
2 AWG	Black	Black with White Numbers	500 ft	**1UNH6**
2/0	Black	Black with White Numbers	500 ft	**1UNH4**
TC - ER Cable Type, XLPE/PVC Jacket Material				
2 Conductors				
14 AWG	Black	Black, Red	500 ft	**4DNW7**
10 AWG	Black	Black, Red	500 ft	**4DNX8**
3 Conductors				
14 AWG	Black	Black, Red, White	500 ft	**4DNW8**
12 AWG	Black	Black, Red, White	500 ft	**4DNX4**
10 AWG	Black	Black, Red, White	500 ft	**4DNX9**
4 Conductors				
14 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNW9**
12 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNX5**
10 AWG	Black	Black, Blue, Orange, Red	500 ft	**4DNY1**
5 Conductors				
14 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNX1**
12 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNX6**
10 AWG	Black	Black, Blue, Orange. Red, Yellow	500 ft	**4DNY2**
7 Conductors				
14 AWG	Black	Black, Blue, Brown, Orange, Red, Red/Black, Yellow	500 ft	**4DNX2**

CAROL BRAND

Hookup Wire

5ZDK9

- PVC insulation
- Stranded conductor design

Small- to medium-gauge insulated wire used to make internal connections inside enclosed electrical or electronic devices. It resists acids, oils, and moisture.

Wire Size	Jacket Color	L	Nominal O.D.	Item No.
300 V, CSA TR-64, UL 1007, UL 1569 Designation				
24 AWG	Black	100 ft	0.06 in	**5ZDE4**
24 AWG	Blue	100 ft	0.06 in	**5ZDF0**
24 AWG	Red	100 ft	0.06 in	**5ZDE6**
24 AWG	Yellow	100 ft	0.06 in	**5ZDE8**
22 AWG	Black	100 ft	0.06 in	**5ZDF1**
22 AWG	Blue	100 ft	0.06 in	**5ZDF7**
22 AWG	Green	100 ft	0.06 in	**5ZDF6**
22 AWG	Orange	100 ft	0.06 in	**5ZDF4**
22 AWG	Red	100 ft	0.06 in	**5ZDF3**
22 AWG	White	100 ft	0.06 in	**5ZDF2**
22 AWG	Yellow	100 ft	0.06 in	**5ZDF5**
20 AWG	Black	100 ft	0.07 in	**5ZDF8**
20 AWG	Blue	100 ft	0.07 in	**5ZDG4**
20 AWG	Red	100 ft	0.07 in	**5ZDG0**
20 AWG	White	100 ft	0.07 in	**5ZDF9**
18 AWG	Black	100 ft	0.08 in	**5ZDG5**
18 AWG	Blue	100 ft	0.08 in	**5ZDH1**
18 AWG	Orange	100 ft	0.08 in	**5ZDG8**
18 AWG	Red	100 ft	0.08 in	**5ZDG7**
18 AWG	White	100 ft	0.08 in	**5ZDG6**
18 AWG	Yellow	100 ft	0.08 in	**5ZDG9**
16 AWG	Black	100 ft	0.09 in	**5ZDH2**
16 AWG	Red	100 ft	0.09 in	**5ZDH4**
16 AWG	White	100 ft	0.09 in	**5ZDH3**
600 V, CSA TEW, UL 1015 Designation				
20 AWG	Blue	100 ft	0.1 in	**5ZDJ5**
20 AWG	Red	100 ft	0.1 in	**5ZDJ1**
18 AWG	Black	100 ft	0.11 in	**5ZDJ6**
18 AWG	Blue	100 ft	0.11 in	**5ZDK2**
18 AWG	Red	100 ft	0.11 in	**5ZDJ8**
18 AWG	White	100 ft	0.11 in	**5ZDJ7**
16 AWG	Blue	100 ft	0.12 in	**5ZDK9**
16 AWG	White	100 ft	0.12 in	**5ZDK4**
14 AWG	Green	100 ft	0.14 in	**5ZJL6**
14 AWG	Red	100 ft	0.14 in	**5ZJL3**
14 AWG	White	100 ft	0.14 in	**5ZJL2**

CAROL BRAND Southwire

Machine Tool Wire

1YRA3

- PVC insulation
- Rated for 600V
- Stranded conductor design

This wire is typically used in the internal wiring of HVAC equipment, machine tools, circuits, and control panels. It has a durable jacket that is heat-, oil-, and moisture-resistant.

Wire Size	Wire Color	L	Nominal O.D.	Brand	Item No.
Machine Tool Wire					
18 AWG	Black	500 ft	0.11 in	Carol	**1YRA1**
18 AWG	Blue	500 ft	0.11 in	Southwire	**5LXA9**
18 AWG	Brown	500 ft	0.11 in	Southwire	**5LWZ9**
18 AWG	Gray	500 ft	0.11 in	Southwire	**5LXC0**
18 AWG	Green	500 ft	0.11 in	Carol	**1YRA6**
18 AWG	Light Blue	500 ft	0.11 in	Carol	**1YRB2**
18 AWG	Orange	500 ft	0.11 in	Southwire	**5LWZ8**
18 AWG	Purple	500 ft	0.11 in	Southwire	**5LXA8**
18 AWG	Red	500 ft	0.11 in	Carol	**1YRA3**
18 AWG	White	500 ft	0.11 in	Carol	**1YRA2**
18 AWG	Yellow	500 ft	0.11 in	Carol	**1YRA5**
16 AWG	Black	500 ft	0.12 in	Carol	**1YRB4**
16 AWG	Blue	500 ft	0.12 in	Southwire	**5LXC5**
16 AWG	Brown	500 ft	0.12 in	Southwire	**5LXC3**
16 AWG	Green	500 ft	0.12 in	Carol	**1YRB9**
16 AWG	Light Blue	500 ft	0.12 in	Carol	**1YRC5**
16 AWG	Orange	500 ft	0.12 in	Southwire	**5LXA7**
16 AWG	Pink	500 ft	0.12 in	Southwire	**5LXD4**
16 AWG	Purple	500 ft	0.12 in	Southwire	**5LXC4**
16 AWG	Red	500 ft	0.12 in	Carol	**1YRB6**
16 AWG	White	500 ft	0.12 in	Carol	**1YRB5**
16 AWG	Yellow	500 ft	0.12 in	Southwire	**5LXA0**
14 AWG	Black	500 ft	0.14 in	Southwire	**5LWZ1**
14 AWG	Blue	500 ft	0.14 in	Southwire	**5LXA5**
14 AWG	Brown	500 ft	0.14 in	Southwire	**5LXE2**
14 AWG	Gray	500 ft	0.14 in	Southwire	**5LXE0**
14 AWG	Green	500 ft	0.14 in	Southwire	**5LXA3**
14 AWG	Light Blue	500 ft	0.14 in	Carol	**1YRD8**
14 AWG	Orange	500 ft	0.14 in	Southwire	**5LXD7**
14 AWG	Pink	500 ft	0.14 in	Southwire	**5LXE9**
14 AWG	Purple	500 ft	0.14 in	Southwire	**5LXD5**
14 AWG	Red	500 ft	0.14 in	Southwire	**5LWZ0**
14 AWG	White	500 ft	0.14 in	Southwire	**5LWZ7**
14 AWG	Yellow	500 ft	0.14 in	Southwire	**5LXD2**
12 AWG	Black	500 ft	0.16 in	Carol	**1YRE1**
12 AWG	Blue	500 ft	0.15 in	Southwire	**5LXD0**
12 AWG	Brown	500 ft	0.15 in	Southwire	**5LXD6**
12 AWG	Gray	500 ft	0.16 in	Carol	**1YRE9**
12 AWG	Green	500 ft	0.15 in	Southwire	**5LXA4**
12 AWG	Orange	500 ft	0.15 in	Southwire	**5LXD8**
12 AWG	Pink	500 ft	0.16 in	Carol	**1YRF1**
12 AWG	Red	500 ft	0.15 in	Southwire	**5LXA6**
12 AWG	White	500 ft	0.15 in	Southwire	**5LXA2**
12 AWG	Yellow	500 ft	0.15 in	Southwire	**5LXD3**
10 AWG	Black	500 ft	0.18 in	Southwire	**5LXA1**
10 AWG	Blue	500 ft	0.18 in	Southwire	**5LXE6**
10 AWG	Brown	500 ft	0.18 in	Carol	**1YRG2**
10 AWG	Green	500 ft	0.18 in	Southwire	**5LXC6**
10 AWG	Orange	500 ft	0.18 in	Southwire	**5LXE7**
10 AWG	Red	500 ft	0.18 in	Southwire	**5LXC8**
10 AWG	White	500 ft	0.18 in	Southwire	**5LXC7**
10 AWG	Yellow	500 ft	0.18 in	Southwire	**5LXE4**
8 AWG	Black	500 ft	0.24 in	Carol	**1YRG7**
8 AWG	Green	500 ft	0.24 in	Carol	**1YRH3**
8 AWG	Red	500 ft	0.24 in	Carol	**1YRG9**
8 AWG	White	500 ft	0.24 in	Carol	**1YRG8**

34A214

Southwire

Fixture Wire

- PVC insulation with nylon jacket
- Rated for 600V

This is a coated wire that's typically run through raceways and is designed for fixture wiring.

Wire Size	Jacket Color	L	Item No.
TFFN Fixture Wire			
Stranded			
18 AWG	Black	500 ft	**5LWY5**
18 AWG	Blue	500 ft	**5LWY6**
18 AWG	Green	500 ft	**5LWZ3**
18 AWG	Red	500 ft	**5LWY4**
18 AWG	White	500 ft	**5LWY8**
18 AWG	Yellow	500 ft	**5LWZ5**
16 AWG	Beige	500 ft	**4WYU1**
16 AWG	Black	500 ft	**5LWY1**
16 AWG	Blue	500 ft	**5LWY2**
16 AWG	Brown	500 ft	**5LWZ6**
16 AWG	Green	500 ft	**5LWY9**
16 AWG	Orange	500 ft	**5LWZ2**
16 AWG	Pink	500 ft	**4WYT8**
16 AWG	Purple	500 ft	**4WYT9**
16 AWG	Red	500 ft	**5LWY0**
16 AWG	White	500 ft	**5LWY3**
16 AWG	Yellow	500 ft	**5LWY7**
Solid			
18 AWG	Black	500 ft	**34A212**
18 AWG	Green	500 ft	**34A215**
18 AWG	Red	500 ft	**34A214**
18 AWG	White	500 ft	**34A213**

NM-B Building Cable

Southwire · Southwire Romex SIMpull · IDEAL

- PVC insulation
- Rated for 600V
- Stranded conductor design
- Operating temp.: 140°F dry

Nonmetallic cable is commonly used in residential and commercial applications to provide power for outlets, lighting, and appliances. It is for indoor use only.

2VGA5

Wire Size	Jacket Color	Jacket Material	Wire Color	Brand	25 FT Item No.	50 FT Item No.	100 FT Item No.	125 FT Item No.	250 FT Item No.	500 FT Item No.
Stranded, NM-B Designation										
3 with Bare CU Ground										
8 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	**55CX32**	**55CX33**	—	**55CX25**	—	**55CX26**
6 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	**55CX34**	**55CX35**	—	**55CX27**	—	**55CX28**
4 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	—	—	—	**55CX29**	—	**55CX30**
2 AWG	Black	Nylon	Bare, Black, Red, White	Southwire	—	—	—	**55CX31**	—	—
Solid, NM-B Designation										
2 with Bare CU Ground										
14 AWG	White	PVC	Bare, Black, White	Romex	**2VGA2**	**2VGA3**	**2VGA4**	—	**4WZT4**	—
12 AWG	Yellow	PVC	Bare, Black, White	Romex	**2VGA5**	**2VGA6**	**2VGA7**	—	**4WZT5**	—
10 AWG	Orange	PVC	Bare, Black, White	Romex	**2VGA8**	**2VGA9**	**2VGC1**	—	**4WZT8**	—
3 with Bare CU Ground										
14 AWG	White	PVC	Bare, Black, Red, White	Romex	**2VGC2**	**2VGC3**	**2VGC4**	—	**4WZU2**	—
12 AWG	Yellow	PVC	Bare, Black, Red, White	Romex	**2VGC5**	**2VGC6**	**2VGC7**	—	**4WZU3**	—
10 AWG	Orange	PVC	Bare, Black, Red, White	Romex	**2VGC8**	**2VGC9**	—	—	**4WZT9**	—

3GXX1

Description	Brand	Item No.
Cable Stripper		
Lil' Ripper Stripper™ Cutting Tool	IDEAL	**3GXX1**

29HZ22

Southwire · Southwire Romex SIMpull

UF-B Underground Feeder Cable

- PVC insulation with nylon jacket
- Rated for 600V

UF-B wire can be buried directly in the ground, with or without conduit. It may be used in wet indoor settings because it resists moisture and fungus.

Wire Size	Jacket Color	L	Brand	Item No.
Solid, UF-B Designation				
3 with Bare CU Ground				
14 AWG	Gray	250 ft	Southwire	**55CX43**
14 AWG	Gray	1,000 ft	Southwire	**55CX44**
12 AWG	Gray	250 ft	Southwire	**55CX45**
12 AWG	Gray	1,000 ft	Southwire	**55CX46**
10 AWG	Gray	1,000 ft	Southwire	**55CX47**
2 with Bare CU Ground				
10 AWG	Gray	250 ft	Romex	**4WZU1**
14 AWG	Gray	250 ft	Romex	**4WZT6**
12 AWG	Gray	250 ft	Romex	**4WZT7**
3 with Bare CU Ground				
10 AWG	Gray	250 ft	Romex	**29HZ21**
8 AWG	Gray	25 ft	Romex	**29HZ22**
Stranded, UF-B Designation				
2 with Bare CU Ground				
14 AWG	Gray	1,000 ft	Southwire	**55CX36**
12 AWG	Gray	1,000 ft	Southwire	**55CX37**
10 AWG	Gray	1,000 ft	Southwire	**55CX38**
8 AWG	Gray	125 ft	Southwire	**55CX39**
8 AWG	Gray	500 ft	Southwire	**55CX40**
6 AWG	Gray	125 ft	Southwire	**55CX41**
6 AWG	Gray	500 ft	Southwire	**55CX42**
3 with Bare CU Ground				
8 AWG	Gray	125 ft	Southwire	**55CX48**
8 AWG	Gray	500 ft	Southwire	**55CX49**
6 AWG	Gray	125 ft	Southwire	**55CX50**
6 AWG	Gray	500 ft	Southwire	**55CX51**

Southwire

Armored Building Cable

- Rated for 600V

Also known as BX cable or metal-clad (MC) cable, armored cable prevents accidental penetration better than NM-B building cable, but it is heavier and harder to handle, rip back, and cut. Protective corrugated metal jacket (called a sheath or cord) serves as a conduit and provides grounding.

446P36

Wire Size	Jacket Color	Jacket Material	Wire Color	L	Item No.
Solid, MC Designation					
2 with Insulated CU Ground					
14 AWG	Silver	Aluminum	Black, Green, White	25 ft	**20KZ40**
14 AWG	Silver	Aluminum	Black, Green, White	50 ft	**20KZ41**
14 AWG	Silver	Aluminum	Black, Green, White	100 ft	**20KZ42**
14 AWG	Silver	Aluminum	Black, Green, White	250 ft	**20KZ43**
12 AWG	Silver	Aluminum	Blue, Green, White	250 ft	**446P37**
12 AWG	Silver	Aluminum	Brown, Gray, Green	250 ft	**446P38**
12 AWG	Silver	Aluminum	Gray, Green, Purple	250 ft	**446P40**
12 AWG	Silver	Aluminum	Gray, Green, Yellow	250 ft	**446P39**
12 AWG	Silver	Aluminum	Green, Red, White	250 ft	**446P36**
3 with Insulated CU Ground					
12 AWG	Silver	Aluminum	Black, Blue, Green, White	250 ft	**446P42**
12 AWG	Silver	Aluminum	Blue, Green, Red, White	250 ft	**446P41**
12 AWG	Silver	Aluminum	Brown, Gray, Green, Yellow	250 ft	**446P43**
4 with Insulated CU Ground					
12 AWG	Silver	Aluminum	Black, Blue, Green, Red, White	250 ft	**446P44**
Solid, MC FPLP Designation					
2 with Insulated CU Ground					
14 AWG	Red	Aluminum	Black, Green, White	250 ft	**20KZ66**
14 AWG	Red	Aluminum	Black, Green, White	1,000 ft	**20KZ67**
12 AWG	Red	Aluminum	Black, Green, White	250 ft	**20KZ68**
12 AWG	Red	Aluminum	Black, Green, White	1,000 ft	**20KZ69**
Solid, MC HCF Designation					
2 with Insulated CU Ground					
12 AWG	Green	Aluminum	Black, Green, White	1,000 ft	**20KZ63**
Stranded, MC HCF Designation					
2 with Insulated CU Ground					
12 AWG	Green	Aluminum	Black, Green, White	1,000 ft	**20KZ65**

KH INDUSTRIES

Pendant Drop Portable Cord

- Thermoplastic jacket
- Rated for 600V
- Temp. range: -10° to 90°C

This temporary service cord contains multiple conductors. It is installed as a branch off of ceiling cable and hangs down to provide power to a machine.

Without Strain Relief

With External Strain Relief

With Internal Strain Relief

Wire Size	Jacket Color	Jacket Material	L	Item No.
SOOW, Pendant Cable				
8 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL76**
12 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL77**
16 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL78**
24 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL79**
SOOW, Pendant Cable with External Strain Relief				
8 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL80**
12 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL81**
16 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL82**
24 Conductors				
16 AWG	Yellow	PVC	25 ft	**30PL83**
SOOW, Pendant Cable with Internal Strain Relief				
3 Conductors				
16 AWG	Black	PVC	25 ft	**30PL84**
5 Conductors				
16 AWG	Black	PVC	25 ft	**30PL85**
7 Conductors				
16 AWG	Black	PVC	25 ft	**30PL86**

3ENG2

CAROL BRAND

Super Vu-Tron® SOOW Types and W Portable Cord

- Rated for 600V

Heavy-duty service cord with oil-resistant insulation and a flexible thermoset rubber jacket is oil-, water-, and weather-resistant. This cable is typically used to power industrial applications.

Wire Size	Jacket Color	Jacket Material	ORDER BY THE FOOT Item No.
600 V, SOOW, Portable Cord			
9 Conductors			
16 AWG	Black	EPDM Rubber	**3ENF4**
12 AWG	Black	EPDM Rubber	**3ENG6**
10 Conductors			
16 AWG	Black	EPDM Rubber	**3ENF5**
12 Conductors			
18 AWG	Black	EPDM Rubber	**3ENE9**
16 AWG	Black	EPDM Rubber	**3ENF6**
14 AWG	Black	EPDM Rubber	**3ENG2**
14 Conductors			
12 AWG	Black	EPDM Rubber	**3ENG9**
16 Conductors			
16 AWG	Black	EPDM Rubber	**3ENF7**
14 AWG	Black	EPDM Rubber	**3ENG3**
12 AWG	Black	EPDM Rubber	**3ENH1**
20 Conductors			
16 AWG	Black	EPDM Rubber	**3ENF8**
14 AWG	Black	EPDM Rubber	**3ENG4**
24 Conductors			
18 AWG	Black	EPDM Rubber	**3ENF3**
16 AWG	Black	EPDM Rubber	**3ENF9**
12 AWG	Black	EPDM Rubber	**3ENH3**
2,000 V, W, Portable Cord			
1 Conductors			
2/0	Black	EPDM Rubber	**4DPP2**

3W478

Portable Cord

CAROL. BRAND

- Stranded conductor design

Flexible, moveable electrical cable. **SJOOW and SOOW cord** is heavy-duty service cord with a jacket that hardens under a direct application of heat, allowing the cord to be unaffected by aging, abrasion, water, sunlight, and ozone. **SJTOW and STOW cord** is less flexible than SEOW and SOOW portable cord and will degrade under extreme temperatures and exposure to oil and chemicals. **SEOW cord** is more resistant to water than SOOW portable cord and can be used at lower temperatures, but it is less durable.

Wire Size	Jacket Color	Jacket Material	L	Brand	Item No.
300 V, SJOOW, Portable Cord					
2 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX43
18 AWG	Black	Rubber	50 ft	Carol	20PX56
18 AWG	Black	Rubber	100 ft	—	20PX69
18 AWG	Yellow	EPDM	250 ft	Carol	2TKW4 *
16 AWG	Black	Rubber	25 ft	—	4KA53
16 AWG	Black	Rubber	50 ft	—	4KA54
16 AWG	Black	EPDM	100 ft	—	1YPW2
16 AWG	Black	EPDM	250 ft	Carol	1W312
16 AWG	Yellow	EPDM	250 ft	Carol	2TKW5 *
14 AWG	Black	Rubber	25 ft	—	4KA57
14 AWG	Black	Rubber	50 ft	—	4KA58
14 AWG	Black	EPDM	100 ft	—	1YPW4
14 AWG	Black	EPDM	250 ft	—	1W925
3 Conductors					
18 AWG	Black	Rubber	25 ft	—	20PX44
18 AWG	Black	Rubber	50 ft	—	20PX57
18 AWG	Black	Rubber	100 ft	—	20PX70
16 AWG	Black	Rubber	25 ft	—	4KA55
16 AWG	Black	Rubber	50 ft	—	4KA56
16 AWG	Black	CPE	100 ft	—	1YPW3
16 AWG	Black	CPE	250 ft	—	1W661
16 AWG	Yellow	EPDM	250 ft	Carol	2TKW3 *
14 AWG	Black	Rubber	25 ft	—	4KA59
14 AWG	Black	Rubber	50 ft	—	4KA60
14 AWG	Black	CPE	100 ft	—	1YPW5
14 AWG	Black	EPDM	250 ft	Carol	1W926
14 AWG	Yellow	EPDM	250 ft	Carol	2TKW7 *
14 AWG	Yellow	EPDM	250 ft	Carol	6XWR0
12 AWG	Black	Rubber	25 ft	—	4KA61
12 AWG	Black	Rubber	50 ft	—	4KA62
12 AWG	Black	EPDM	100 ft	Carol	1YPW6
12 AWG	Black	EPDM	250 ft	Carol	5W578
10 AWG	Black	Rubber	25 ft	—	20PX54
10 AWG	Black	Rubber	50 ft	—	20PX67
10 AWG	Black	Rubber	100 ft	—	20PX80
4 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX45
18 AWG	Black	Rubber	50 ft	—	20PX58
18 AWG	Black	Rubber	100 ft	—	20PX71
16 AWG	Black	Rubber	25 ft	—	20PX48
16 AWG	Black	Rubber	50 ft	—	20PX61
16 AWG	Black	Rubber	100 ft	—	20PX74
16 AWG	Black	CPE	250 ft	—	1UGT9
16 AWG	Yellow	EPDM	250 ft	Carol	2TKW6 *
14 AWG	Black	Rubber	25 ft	—	20PX51
14 AWG	Black	Rubber	50 ft	—	20PX64
14 AWG	Black	Rubber	100 ft	—	20PX77
14 AWG	Yellow	EPDM	250 ft	Carol	2TKW8 *
12 AWG	Black	Rubber	25 ft	—	20PX53
12 AWG	Black	Rubber	50 ft	—	20PX66
12 AWG	Black	Rubber	100 ft	—	20PX79
10 AWG	Black	Rubber	25 ft	—	20PX55
10 AWG	Black	Rubber	50 ft	—	20PX68
10 AWG	Black	Rubber	100 ft	—	20PX81
10 AWG	Black	EPDM	250 ft	Carol	1UGU2
300 V, SJTOW, Portable Cord					
3 Conductors					
18 AWG	Yellow	PVC	250 ft	—	2TYK5
16 AWG	Yellow	PVC	250 ft	—	2TYK7
14 AWG	Yellow	PVC	250 ft	—	2TYK9
12 AWG	Yellow	PVC	250 ft	—	2TYL2
10 AWG	Yellow	PVC	250 ft	—	2TYL4
4 Conductors					
18 AWG	Yellow	PVC	250 ft	—	2TYK6
16 AWG	Yellow	PVC	250 ft	—	2TYK8
14 AWG	Yellow	PVC	250 ft	—	2TYL1
12 AWG	Yellow	PVC	250 ft	—	2TYL3
10 AWG	Yellow	PVC	250 ft	—	2TYL5
600 V, SEOW, Portable Cord					
2 Conductors					
18 AWG	Black	TPE	250 ft	—	2TYF7
18 AWG	Yellow	TPE	250 ft	—	2TYH6
16 AWG	Black	TPE	250 ft	—	2TYG1
16 AWG	Yellow	TPE	250 ft	—	2TYH9
14 AWG	Black	TPE	250 ft	—	2TYG4
14 AWG	Yellow	TPE	250 ft	—	2TYJ3
3 Conductors					
18 AWG	Black	TPE	250 ft	—	2TYF8
18 AWG	Yellow	TPE	250 ft	—	2TYH7
16 AWG	Black	TPE	250 ft	—	2TYG2
16 AWG	Yellow	TPE	250 ft	—	2TYJ1
14 AWG	Black	TPE	250 ft	—	2TYG5
14 AWG	Yellow	TPE	250 ft	—	2TYJ4
12 AWG	Black	TPE	250 ft	—	2TYG7
12 AWG	Yellow	TPE	250 ft	—	2TYJ6
10 AWG	Black	TPE	250 ft	—	2TYG9
10 AWG	Yellow	TPE	250 ft	—	2TYJ8
8 AWG	Yellow	TPE	250 ft	—	2TYK1
8 AWG	Black	TPE	250 ft	—	2TYH2
6 AWG	Yellow	TPE	250 ft	—	2TYK3
6 AWG	Black	TPE	250 ft	—	2TYH4
4 Conductors					
18 AWG	Black	TPE	250 ft	—	2TYF9
18 AWG	Yellow	TPE	250 ft	—	2TYH8
16 AWG	Black	TPE	250 ft	—	2TYG3
16 AWG	Yellow	TPE	250 ft	—	2TYJ2
14 AWG	Black	TPE	250 ft	—	2TYG6
14 AWG	Yellow	TPE	250 ft	—	2TYJ5
12 AWG	Black	TPE	250 ft	—	2TYG8
12 AWG	Yellow	TPE	250 ft	—	2TYJ7
10 AWG	Black	TPE	250 ft	—	2TYH1
10 AWG	Yellow	TPE	250 ft	—	2TYJ9
8 AWG	Yellow	TPE	250 ft	—	2TYK2
8 AWG	Black	TPE	250 ft	—	2TYH3
6 AWG	Yellow	TPE	250 ft	—	2TYK4
6 AWG	Black	TPE	250 ft	—	2TYH5
600 V, SOOW, Portable Cord					
2 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX82
18 AWG	Black	Rubber	50 ft	Carol	20PY20
18 AWG	Black	Rubber	100 ft	—	20PY57
16 AWG	Black	Rubber	25 ft	Carol	20PX89
16 AWG	Black	Rubber	50 ft	Carol	20PY27
16 AWG	Black	Rubber	100 ft	—	20PY64
14 AWG	Black	Rubber	25 ft	Carol	20PX96
14 AWG	Black	Rubber	50 ft	Carol	20PY34
14 AWG	Black	Rubber	100 ft	Carol	20PY71
12 AWG	Black	Rubber	25 ft	Carol	20PY01
12 AWG	Black	Rubber	50 ft	Carol	20PY38
12 AWG	Black	Rubber	100 ft	—	20PY75
10 AWG	Black	Rubber	25 ft	Carol	20PY06
10 AWG	Black	Rubber	50 ft	Carol	20PY43
10 AWG	Black	Rubber	100 ft	—	20PY80
3 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX83
18 AWG	Black	Rubber	50 ft	Carol	20PY21
18 AWG	Black	Rubber	100 ft	—	20PY58
18 AWG	Black	EPDM	250 ft	Carol	3ZK64
16 AWG	Black	Rubber	25 ft	—	4KA63
16 AWG	Black	Rubber	50 ft	—	4KA64
16 AWG	Black	CPE	100 ft	—	1YPW7
16 AWG	Black	EPDM	250 ft	Carol	2W375
16 AWG	Yellow	EPDM	250 ft	Carol	2TKW9 *
14 AWG	Black	Rubber	25 ft	—	4KA65
14 AWG	Black	Rubber	50 ft	—	4KA66
14 AWG	Black	CPE	100 ft	—	1YPW8
14 AWG	Black	EPDM	250 ft	Carol	2W376
14 AWG	Yellow	EPDM	250 ft	Carol	2TKX2 *
14 AWG	Yellow	EPDM	250 ft	Carol	6XWT0
12 AWG	Black	Rubber	25 ft	—	4KA67
12 AWG	Black	Rubber	50 ft	—	4KA68
12 AWG	Black	CPE	100 ft	—	1YPW9
12 AWG	Black	EPDM	250 ft	Carol	2W378
12 AWG	Yellow	EPDM	250 ft	Carol	2TKX4 *
12 AWG	Yellow	EPDM	250 ft	Carol	6XWT2
10 AWG	Black	Rubber	25 ft	—	20PY07
10 AWG	Black	Rubber	50 ft	—	20PY44
10 AWG	Black	EPDM	100 ft	Carol	3W478
10 AWG	Black	EPDM	250 ft	Carol	3W477
10 AWG	Yellow	EPDM	250 ft	Carol	2TKX6 *
8 AWG	Black	Rubber	25 ft	—	20PY11
8 AWG	Black	Rubber	50 ft	—	20PY48
8 AWG	Black	Rubber	100 ft	Carol	20PY85
8 AWG	Black	EPDM	250 ft	Carol	5ZG84
6 AWG	Black	Rubber	25 ft	—	20PY14
6 AWG	Black	Rubber	50 ft	Carol	20PY51
6 AWG	Black	EPDM	100 ft	—	5ZG86
4 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX84
18 AWG	Black	Rubber	50 ft	—	20PY22
18 AWG	Black	Rubber	100 ft	Carol	20PY59
18 AWG	Black	EPDM	250 ft	Carol	5ZG77
18 AWG	Yellow	EPDM	250 ft	Carol	6XWR7
16 AWG	Black	Rubber	25 ft	—	20PX91
16 AWG	Black	Rubber	50 ft	—	20PY29
16 AWG	Black	Rubber	100 ft	—	20PY66
16 AWG	Black	EPDM	250 ft	Carol	3W479
16 AWG	Yellow	EPDM	250 ft	Carol	2TKX1 *
16 AWG	Yellow	EPDM	250 ft	Carol	6XWR9
14 AWG	Black	Rubber	25 ft	—	20PX98
14 AWG	Black	Rubber	50 ft	—	20PY36
14 AWG	Black	CPE	100 ft	—	20PY73
14 AWG	Black	EPDM	250 ft	Carol	2W377
14 AWG	Yellow	EPDM	250 ft	Carol	2TKX3 *
12 AWG	Black	Rubber	25 ft	—	20PY03
12 AWG	Black	Rubber	50 ft	—	20PY40
12 AWG	Black	CPE	100 ft	—	20PY77
12 AWG	Black	EPDM	250 ft	Carol	3W476
12 AWG	Yellow	EPDM	250 ft	Carol	2TKX5 *
12 AWG	Yellow	EPDM	250 ft	Carol	6XWT3
10 AWG	Black	Rubber	25 ft	—	20PY08
10 AWG	Black	Rubber	50 ft	—	20PY45
10 AWG	Black	Rubber	100 ft	—	20PY82
10 AWG	Yellow	EPDM	250 ft	Carol	2TKX7 *
10 AWG	Yellow	EPDM	250 ft	Carol	6XWT5
8 AWG	Black	Rubber	25 ft	—	20PY12
8 AWG	Black	Rubber	50 ft	—	20PY49
8 AWG	Black	Rubber	100 ft	—	20PY86
8 AWG	Black	EPDM	250 ft	Carol	5ZG85
6 AWG	Black	Rubber	25 ft	—	20PY15
6 AWG	Black	Rubber	50 ft	—	20PY52
6 AWG	Black	EPDM	100 ft	Carol	5ZG87
4 AWG	Black	Rubber	25 ft	Carol	20PY17
4 AWG	Black	Rubber	50 ft	Carol	20PY54
4 AWG	Black	Rubber	100 ft	Carol	20PY91
2 AWG	Black	Rubber	25 ft	Carol	20PY19
2 AWG	Black	Rubber	50 ft	Carol	20PY56
2 AWG	Black	Rubber	100 ft	Carol	20PY93
5 Conductors					
18 AWG	Black	Rubber	25 ft	Carol	20PX85
18 AWG	Black	Rubber	50 ft	Carol	20PY23
18 AWG	Black	Rubber	100 ft	Carol	20PY60
18 AWG	Black	EPDM	250 ft	—	5GED7
16 AWG	Black	Rubber	25 ft	—	20PX92
16 AWG	Black	Rubber	50 ft	—	20PY30
16 AWG	Black	Rubber	100 ft	Carol	20PY67
16 AWG	Black	EPDM	250 ft	—	5GEE0
14 AWG	Black	Rubber	25 ft	—	20PX99
14 AWG	Black	Rubber	50 ft	—	20PY37
14 AWG	Black	Rubber	100 ft	Carol	20PY74
14 AWG	Black	EPDM	250 ft	Carol	1UGV8
12 AWG	Black	Rubber	25 ft	—	20PY04
12 AWG	Black	Rubber	50 ft	Carol	20PY41
12 AWG	Black	Rubber	100 ft	Carol	20PY78
12 AWG	Black	EPDM	250 ft	Carol	1UGV9
10 AWG	Black	Rubber	25 ft	—	20PY09
10 AWG	Black	Rubber	50 ft	—	20PY46
10 AWG	Black	Rubber	100 ft	—	20PY83
10 AWG	Black	EPDM	250 ft	Carol	5GEE4
8 AWG	Black	Rubber	25 ft	Carol	20PY13
8 AWG	Black	Rubber	50 ft	Carol	20PY50
8 AWG	Black	Rubber	100 ft	Carol	20PY87
6 AWG	Black	Rubber	25 ft	Carol	20PY16
6 AWG	Black	Rubber	50 ft	Carol	20PY53
6 AWG	Black	Rubber	100 ft	Carol	20PY90
4 AWG	Black	Rubber	25 ft	Carol	20PY18
4 AWG	Black	Rubber	50 ft	Carol	20PY55
4 AWG	Black	Rubber	100 ft	Carol	20PY92
6 Conductors					
18 AWG	Black	Rubber	25 ft	—	20PX86
18 AWG	Black	Rubber	50 ft	Carol	20PY24
18 AWG	Black	Rubber	100 ft	—	20PY61
18 AWG	Black	EPDM	250 ft	—	5GED6
16 AWG	Black	Rubber	25 ft	—	20PX93
16 AWG	Black	Rubber	50 ft	—	20PY31
16 AWG	Black	Rubber	100 ft	Carol	20PY68
16 AWG	Black	EPDM	250 ft	—	5GED9
14 AWG	Black	EPDM	250 ft	—	5GEE6
12 AWG	Black	Rubber	25 ft	Carol	20PY05
12 AWG	Black	Rubber	50 ft	Carol	20PY42
12 AWG	Black	Rubber	100 ft	Carol	20PY79
12 AWG	Black	EPDM	250 ft	—	5GEF0
10 AWG	Black	Rubber	25 ft	Carol	20PY10
10 AWG	Black	Rubber	50 ft	Carol	20PY47
10 AWG	Black	Rubber	100 ft	Carol	20PY84
7 Conductors					
16 AWG	Black	EPDM	250 ft	—	5GEE3
14 AWG	Black	EPDM	250 ft	Carol	5GEE9
8 Conductors					
18 AWG	Black	Rubber	25 ft	—	20PX87
18 AWG	Black	Rubber	50 ft	Carol	20PY25
18 AWG	Black	Rubber	100 ft	—	20PY62
18 AWG	Black	EPDM	250 ft	—	5GED8
16 AWG	Black	Rubber	25 ft	—	20PX94
16 AWG	Black	Rubber	50 ft	—	20PY32
16 AWG	Black	Rubber	100 ft	Carol	20PY69
16 AWG	Black	EPDM	250 ft	—	5GEE1
12 AWG	Black	EPDM	250 ft	Carol	5GEF2
10 Conductors					
18 AWG	Black	Rubber	25 ft	—	20PX88
18 AWG	Black	Rubber	50 ft	Carol	20PY26
18 AWG	Black	Rubber	100 ft	Carol	20PY63
16 AWG	Black	Rubber	25 ft	—	20PX95
16 AWG	Black	Rubber	50 ft	Carol	20PY33
16 AWG	Black	Rubber	100 ft	Carol	20PY70
12 Conductors					
18 AWG	Black	EPDM	250 ft	Carol	5GEE5
16 AWG	Black	EPDM	250 ft	Carol	5GEF1
14 Conductors					
16 AWG	Black	EPDM	250 ft	Carol	5GEF5
16 Conductors					
16 AWG	Black	EPDM	250 ft	Carol	5GEE8
600 V, STOW, Portable Cord					
3 Conductors					
18 AWG	Black	PVC	250 ft	—	2TYL6
16 AWG	Black	PVC	250 ft	—	2TYL8
14 AWG	Black	PVC	250 ft	—	2TYN1
12 AWG	Black	PVC	250 ft	—	2TYN3
10 AWG	Black	PVC	250 ft	—	2TYN5
4 Conductors					
18 AWG	Black	PVC	250 ft	—	2TYL7
16 AWG	Black	PVC	250 ft	—	2TYL9
14 AWG	Black	PVC	250 ft	—	2TYN2
12 AWG	Black	PVC	250 ft	—	2TYN4
10 AWG	Black	PVC	250 ft	—	2TYN6

** Super Vu-Tron® Supreme premium jacket.*

Southwire®

4WZV1

Bare Copper Grounding Wire

- Rated for 600V
- Temp. rating: 167°F
- 6 AWG stranded: Class B stranding
- 4 AWG stranded: Class A and B stranding

This wire does not have insulation or a jacket and is used to connect a circuit to a grounding rod in the earth.

Wire Size	Nominal O.D.	L	Item No.
Solid			
10 AWG	0.1 in	800 ft	**4WZU9**
8 AWG	0.13 in	500 ft	**4WZU8**
6 AWG	0.16 in	25 ft	**4WZU6**
6 AWG	0.16 in	315 ft	**4WZU7**
4 AWG	0.2 in	25 ft	**4WZU4**
4 AWG	0.2 in	200 ft	**4WZU5**
Stranded			
6 AWG	0.18 in	315 ft	**4WZV2**
4 AWG	0.23 in	198 ft	**4WZV1**

CAROL BRAND

1W566

Lamp Cord

- Temp. range: -4° to 140°F

Flexible electrical cable used to connect small, portable appliances, like lamps, clocks, and radios, to a power source, usually via a wall socket. It does not include plugs on the ends of the cord.

Wire Size	Jacket Color	L	Brand	Item No.
300 V, SPT-1, Lamp Cord				
2 Conductors				
18 AWG	Brown	250 ft	—	**1W566**
18 AWG	White	250 ft	—	**2W374**
18 AWG	Black	250 ft	—	**4DPD6**
18 AWG	Clear	250 ft	—	**4DPD7**
18 AWG	Gold	250 ft	Carol	**4DPD8**
300 V, SPT-2, Lamp Cord				
2 Conductors				
16 AWG	Brown	250 ft	—	**4DPE2**
16 AWG	White	250 ft	—	**4DPE1**
16 AWG	Black	250 ft	—	**4DPD9**

6UTA2

Southwire®

Flat Submersible Pump Wire

- PVC insulation

Multiconductor cable connects a submersible pump controller to the motor of the pump. Also known as sub pump wire, it resists oil, lubricants, acids, ozone, and abrasion, making it ideal for wet or hostile environments.

Wire Size	L	Wire Color	Item No.
600 V, THW, Flat Submersible Pump Wire			
2 with Insulated CU Ground Conductors			
12 AWG	500 ft	Black, Green, Red	**6UTA4**
3 with Insulated CU Ground Conductors			
12 AWG	500 ft	Black, Green, Red, Yellow	**6UTA5**
10 AWG	500 ft	Black, Green, Red, Yellow	**6UTA7**
600 V, THW, Twisted Submersible Pump Wire			
2 with Insulated CU Ground Conductors			
12 AWG	500 ft	Black, Green, Red	**6UTA2**
10 AWG	500 ft	Black, Green, Red	**6UTA3**
3 with Insulated CU Ground Conductors			
12 AWG	500 ft	Black, Green, Red, Yellow	**6CGV8**

CAROL BRAND

1YPX4

SC Portable Cord

- Super Vu-Tron rubber jacket over copper conductors
- Temp. range: -58° to 221°F (-50° to 105°C)
- TRU-Mark sequential footage marking

Heavy-duty cable is commonly used to provide temporary power for entertainment industry activities. This cord can be coiled and stored when not in use, making it easy to move from location to location. It can withstand heat and flames, and it's resistant to liquids, solvents, ozone, crushing, and abrasion. UL Type SC, CSA Type PPC, RoHS compliant.

Wire Size	Jacket Color	Jacket Material	L	Item No.
600 V, SC, Portable Cord				
6 AWG	Black	EPDM Rubber	1000 ft	**1YPX9**
2 AWG	Black	EPDM Rubber	1000 ft	**1YPX7**
4/0	Black	EPDM Rubber	1000 ft	**1YPX4**

CAROL BRAND

Welding Cable

- EPDM rubber insulation
- Black, abrasion-resistant Carolprene jacket
- Rated for 600V
- Temp. rating: 221°F

1UGT2

Flexible, durable electrical cable supplies power to the secondary circuit of electric welders, which controls the electrode that releases the charge needed for the welding process. It has a single, finely stranded conductor, which gives welding cable more flexibility than other types of electrical wire.

Note: Do not use for in-line voltages, which could be hazardous. Designed for use with secondary voltages.

Wire Size	Stranding	Nominal O.D.	Length 50 ft Item No.	Length 100 ft Item No.	Length 250 ft Item No.
600 V, Welding Cable					
4 AWG	406 x 30	0.38 in	—	—	**1UGT2**
2 AWG	646 x 30	0.46 in	**6X777**	**6X778**	**1UGT3**
1 AWG	812 x 30	0.5 in	**6X779**	**6X780**	**1UGT4**
1/0	1025 x 30	0.56 in	**6X781**	**2W282**	**1UGT5**
2/0	1274 x 30	0.62 in	—	**2W283**	**1UGT6**
4/0	2029 x 30	0.75 in	—	—	**1UGT7**

22P236

22P237

22P207

22P230

BURNDY®

Cable Cutters

These cut ACSR, copper, and aluminum conductors.

Description	Mfr. Model	Item No.
Manual Cable Cutters		
Copper- 600 kcmil, Aluminum- 600 kcmil	RCC600E	**22P235**
Copper- 350 kcmil, Aluminum- 500 kcmil, ACSR- 336 kcmil	RCC336	**22P236**
Copper- 500 kcmil, Aluminum- 500 kcmil, ACSR- 556 kcmil	RCC556	**22P237**
Hydraulic Cable Cutter		
Copper and Aluminum Cable up to 1.29" Dia., ACSR up to 1113 ACSR, Ground Rod up to ⅝", Rebar up to ½", Soft Steel Bolts up to ⅝", Standard Guy Strand up to ½", EHS Guy Strand up to ⅜"	RHCC129ACSR	**22P207**
Battery Operated Cable Cutters		
For use on: Copper & Aluminum 1.29", ACSR 1113 Kcmil, Ground Rod ⅝", Rebar ½", Soft Steel Bolts ⅝", Standard Guy Wire ½", EHS Guy Wire ⅜"	PATCUT129LI	**22P215**
Copper and Aluminum up to 2.45"	PATCUT245LI	**22P230**
Compact Slide Calipers		
(¼ - 2½) for CU/AL IPS Tubing, Tubing Sizes 3⅛ Inside Max., and 2 15/16 Outside Max, Stranded 18 AWG, 2000 kcmil, Thin Wall Conduit ⅜ to 2½	WIREMIKE	**22P122**

2TYZ5

Continuous Flexing Cable

igus®

- Cut to length; sold in spools or by the foot

This is electrical cable that can withstand repetitive motion and constant bending without damage. It has one or more insulated conductors and a flexible jacket that is oil-, flame-, and coolant-resistant.

No. of Cond.	Wire Size	Nominal O.D.	Min. Bend Radius	Order by the Foot Item No.	25 ft. Item No.	100 ft. Item No.
Continuous Flexing Appliance Wiring Communication Cable						
PVC Jacket Material, Gray Jacket Color						
2	24 AWG	0.2 in	12 x O.D.	2TZH1	—	—
2	20 AWG	0.22 in	12 x O.D.	2TZJ1	—	—
4	24 AWG	0.28 in	12 x O.D.	2TZH2	—	—
4	20 AWG	0.31 in	12 x O.D.	2TZJ2	2TZX9	2WGX1
6	24 AWG	0.3 in	12 x O.D.	2TZH3	2TZX1	2WGW2
6	20 AWG	0.35 in	12 x O.D.	2TZJ3	2TZY1	2WGX2
8	24 AWG	0.31 in	12 x O.D.	2TZH4	2TZX2	—
8	20 AWG	0.37 in	12 x O.D.	2TZJ4	2TZY2	2WGX3
10	24 AWG	0.33 in	12 x O.D.	2TZH5	2TZX3	2WGW4
12	24 AWG	0.37 in	12 x O.D.	2TZH6	—	2WGW5
16	24 AWG	0.45 in	12 x O.D.	2TZH7	2TZX5	2WGW6
20	24 AWG	0.51 in	12 x O.D.	2TZH8	2TZX6	2WGW7
28	24 AWG	0.53 in	12 x O.D.	2TZH9	2TZX7	2WGW8
300 V, Shielded, Continuous Flexing Control Cable						
TPE Jacket Material, Dark Blue Jacket Color						
4	24 AWG	0.25 in	5 x OD	24C102	—	—
4	18 AWG	0.3 in	5 x OD	24C108	—	—
7	18 AWG	0.33 in	5 x OD	24C110	—	—
8	24 AWG	0.3 in	5 x OD	24C103	—	—
12	24 AWG	0.35 in	5 x OD	24C104	—	—
24	18 AWG	0.65 in	5 x OD	24C112	—	—
300 V, Unshielded, Continuous Flexing Control Cable						
TPE Jacket Material, Dark Blue Jacket Color						
2	20 AWG	0.2 in	5 x OD	24C080	—	—
3	24 AWG	0.18 in	5 x OD	24C074	—	—
3	20 AWG	0.22 in	5 x OD	24C081	—	—
4	22 AWG	0.2 in	5 x OD	24C077	—	—
4	20 AWG	0.22 in	5 x OD	24C082	—	—
4	16 AWG	0.3 in	5 x OD	24C090	—	—
5	22 AWG	0.22 in	5 x OD	24C078	—	—
5	20 AWG	0.24 in	5 x OD	24C083	—	—
5	18 AWG	0.26 in	5 x OD	24C086	—	—
7	20 AWG	0.28 in	5 x OD	24C084	—	—
8	24 AWG	0.26 in	5 x OD	24C075	—	—
8	22 AWG	0.26 in	5 x OD	24C079	—	—
12	24 AWG	0.31 in	5 x OD	24C076	—	—
12	20 AWG	0.37 in	5 x OD	24C085	—	—
12	18 AWG	0.43 in	5 x OD	24C088	—	—
12	16 AWG	0.55 in	5 x OD	24C093	—	—
12	14 AWG	0.67 in	5 x OD	24C099	—	—
600 V, Shielded, Continuous Flexing Control Cable						
PVC Jacket Material, Green Jacket Color						
3	18 AWG	0.33 in	7.5 x OD	2TYZ9	2TZN7	2WGK8
3	16 AWG	0.39 in	7.5 x OD	2TZA7	2TZP5	2WGL6
4	18 AWG	0.35 in	7.5 x OD	2TZA1	2TZN8	2WGK9
4	16 AWG	0.41 in	7.5 x OD	2TZA8	2TZP6	2WGL7
4	14 AWG	0.49 in	7.5 x OD	2TZC4	2TZR2	2WGP3
5	20 AWG	0.35 in	7.5 x OD	2TYZ5	2TZN3	2WGK4
5	18 AWG	0.39 in	7.5 x OD	2TZA2	2TZN9	2WGL1
5	16 AWG	0.43 in	7.5 x OD	2TZA9	2TZP7	2WGL8
7	20 AWG	0.43 in	7.5 x OD	2TYZ6	2TZN4	2WGK5
7	18 AWG	0.47 in	7.5 x OD	2TZA3	2TZP1	2WGL2
7	16 AWG	0.55 in	7.5 x OD	2TZC1	2TZP8	2WGL9
12	20 AWG	0.51 in	7.5 x OD	2TYZ7	2TZN5	2WGK6
12	18 AWG	0.55 in	7.5 x OD	2TZA4	2TZP2	2WGL3
12	16 AWG	0.71 in	7.5 x OD	2TZC2	2TZP9	2WGP1
18	20 AWG	0.59 in	7.5 x OD	2TYZ8	2TZN6	2WGK7
18	18 AWG	0.69 in	7.5 x OD	2TZA5	2TZP3	2WGL4
24	18 AWG	0.71 in	7.5 x OD	—	2TZP4	—
25	18 AWG	0.71 in	7.5 x OD	—	—	2WGL5
25	16 AWG	0.96 in	7.5 x OD	2TZC3	2TZR1	2WGP2
600 V, Shielded, Continuous Flexing Tray Cable						
PVC Jacket Material, Gray Jacket Color						
3	16 AWG	0.41 in	8 x OD	2TZF1	2TZU8	2WGT9
4	18 AWG	0.4 in	8 x OD	2TZE6	2TZU4	2WGT5
4	16 AWG	0.43 in	8 x OD	2TZF2	2TZU9	2WGU1
4	14 AWG	0.47 in	8 x OD	2TZF6	2TZV4	2WGU5
4	12 AWG	0.57 in	8 x OD	2TZF8	2TZV6	2WGU7
4	10 AWG	0.64 in	8 x OD	2TZF9	2TZV7	2WGU8
7	18 AWG	0.48 in	8 x OD	2TZE7	2TZU5	2WGT6
7	16 AWG	0.53 in	8 x OD	2TZF3	2TZV1	2WGU2
7	14 AWG	0.59 in	8 x OD	2TZF7	2TZV5	2WGU6
12	18 AWG	0.58 in	8 x OD	2TZE8	2TZU6	2WGT7
12	16 AWG	0.64 in	8 x OD	2TZF4	2TZV2	2WGU3
18	18 AWG	0.66 in	8 x OD	2TZE9	2TZU7	2WGT8
25	16 AWG	0.85 in	8 x OD	2TZF5	2TZV3	2WGU4
600 V, Unshielded, Continuous Flexing Control Cable						
PVC Jacket Material, Green Jacket Color						
3	20 AWG	0.24 in	7.5 x OD	2TYW8	2TZJ6	2WGG7
3	16 AWG	0.31 in	7.5 x OD	2TYY2	2TZK9	2WGJ1
4	18 AWG	0.28 in	7.5 x OD	2TYX3	2TZK1	2WGH2
4	16 AWG	0.35 in	7.5 x OD	2TYY3	2TZL1	2WGJ2
4	14 AWG	0.43 in	7.5 x OD	2TYY9	2TZL7	2WGJ8
5	18 AWG	0.31 in	7.5 x OD	2TYX4	2TZK2	2WGH3
5	16 AWG	0.39 in	7.5 x OD	2TYY4	2TZL2	2WGJ3
5	14 AWG	0.47 in	7.5 x OD	2TYZ1	2TZL8	2WGJ9
7	20 AWG	0.31 in	7.5 x OD	2TYW9	2TZJ7	2WGG8
7	18 AWG	0.35 in	7.5 x OD	2TYX5	2TZK3	2WGH4
7	16 AWG	0.51 in	7.5 x OD	2TYY5	2TZL3	2WGJ4
7	14 AWG	0.59 in	7.5 x OD	2TYZ2	2TZL9	2WGK1
12	20 AWG	0.45 in	7.5 x OD	2TYX1	2TZJ8	2WGG9
12	18 AWG	0.55 in	7.5 x OD	2TYX6	2TZK4	2WGH5
12	16 AWG	0.63 in	7.5 x OD	2TYY6	2TZL4	2WGJ5
18	20 AWG	0.53 in	7.5 x OD	2TYX2	2TZJ9	2WGH1

No. of Cond.	Wire Size	Nominal O.D.	Min. Bend Radius	Order by the Foot Item No.	25 ft. Item No.	100 ft. Item No.
18	18 AWG	0.71 in	7.5 x OD	2TYX7	2TZK5	2WGH6
18	16 AWG	0.87 in	7.5 x OD	2TYY7	2TZL5	2WGJ6
18	14 AWG	1.08 in	7.5 x OD	2TYZ3	2TZN1	2WGK2
25	18 AWG	0.75 in	7.5 x OD	2TYX8	2TZK6	2WGH7
25	16 AWG	0.94 in	7.5 x OD	2TYY8	2TZL6	2WGJ7
25	14 AWG	1.24 in	7.5 x OD	2TYZ4	2TZN2	2WGK3
36	18 AWG	0.87 in	7.5 x OD	2TYX9	2TZK7	2WGH8
42	18 AWG	0.91 in	7.5 x OD	2TYY1	2TZK8	2WGH9
600 V, Unshielded, Continuous Flexing Tray Cable						
PVC Jacket Material, Gray Jacket Color						
3	16 AWG	0.33 in	8 x OD	2TZD2	2TZR9	2WGR1
4	18 AWG	0.33 in	8 x OD	2TZC5	2TZR3	2WGP4
4	16 AWG	0.36 in	8 x OD	2TZD3	2TZT1	2WGR2
4	14 AWG	0.39 in	8 x OD	2TZE1	2TZT8	2WGR9
4	12 AWG	0.49 in	8 x OD	2TZE4	2TZU2	2WGT3
4	10 AWG	0.56 in	8 x OD	2TZE5	2TZU3	2WGT4
5	18 AWG	0.35 in	8 x OD	2TZC6	2TZR4	2WGP5
5	16 AWG	0.39 in	8 x OD	2TZD4	2TZT2	2WGR3
7	18 AWG	0.4 in	8 x OD	2TZC7	2TZR5	2WGP6
7	16 AWG	0.45 in	8 x OD	2TZD5	2TZT3	2WGR4
7	14 AWG	0.51 in	8 x OD	2TZE2	2TZT9	2WGT1
12	18 AWG	0.5 in	8 x OD	2TZC8	2TZR6	2WGP7
12	16 AWG	0.56 in	8 x OD	2TZD6	2TZT4	2WGR5
12	14 AWG	0.62 in	8 x OD	2TZE3	2TZU1	2WGT2
18	18 AWG	0.58 in	8 x OD	2TZC9	2TZR7	2WGP8
18	16 AWG	0.65 in	8 x OD	2TZD7	2TZT5	2WGR6
25	18 AWG	0.69 in	8 x OD	2TZD1	2TZR8	2WGP9
25	16 AWG	0.77 in	8 x OD	2TZD8	2TZT6	2WGR7
33	16 AWG	0.85 in	8 x OD	2TZD9	2TZT7	2WGR8
1,000 V, Shielded, Continuous Flexing Control Cable						
Polyurethane Jacket Material, Gray Jacket Color						
3	18 AWG	0.31 in	7.5 x OD	24C032	24C047	24C062
3	16 AWG	0.37 in	7.5 x OD	24C037	24C052	24C067
4	16 AWG	0.39 in	7.5 x OD	24C038	24C053	24C068
4	14 AWG	0.45 in	7.5 x OD	24C042	24C057	24C072
5	20 AWG	0.33 in	7.5 x OD	24C029	24C044	24C059
5	18 AWG	0.37 in	7.5 x OD	24C033	24C048	24C063
5	16 AWG	0.41 in	7.5 x OD	24C039	24C054	24C069
7	20 AWG	0.37 in	7.5 x OD	24C030	24C045	24C060
7	18 AWG	0.41 in	7.5 x OD	24C034	24C049	24C064
7	16 AWG	0.49 in	7.5 x OD	24C040	24C055	24C070
7	14 AWG	0.57 in	7.5 x OD	24C043	24C058	24C073
12	20 AWG	0.49 in	7.5 x OD	24C031	24C046	24C061
12	18 AWG	0.53 in	7.5 x OD	24C035	24C050	24C065
12	16 AWG	0.61 in	7.5 x OD	24C041	24C056	24C071
18	18 AWG	0.61 in	7.5 x OD	24C036	24C051	24C066
1,000 V, Shielded, Continuous Flexing Power Cable						
PVC Jacket Material, Black Jacket Color						
4	16 AWG	0.43 in	7.5 x OD	2TZG5	2TZW3	2WGV4
4	14 AWG	0.49 in	7.5 x OD	2TZG6	2TZW4	2WGV5
4	12 AWG	0.55 in	7.5 x OD	2TZG7	2TZW5	2WGV6
4	10 AWG	0.67 in	7.5 x OD	2TZG8	2TZW6	2WGV7
4	6 AWG	0.95 in	7.5 x OD	2TZG9	2TZW7	2WGV8
TPE Jacket Material, Black Jacket Color						
1	350 MCM	1.04 in	7.5 x OD	24C164	—	—
1	300 MCM	0.94 in	7.5 x OD	24C163	—	—
1	12 AWG	0.26 in	7.5 x OD	24C153	—	—
1	4/0	0.87 in	7.5 x OD	24C162	—	—
4	10 AWG	0.61 in	7.5 x OD	24C140	—	—
1,000 V, Unshielded, Continuous Flexing Control Cable						
Polyurethane Jacket Material, Gray Jacket Color						
3	18 AWG	0.24 in	7.5 x OD	24A975	24A994	24C014
3	16 AWG	0.28 in	7.5 x OD	24A981	24C001	24C020
4	20 AWG	0.24 in	7.5 x OD	24A971	24A990	24C010
4	18 AWG	0.26 in	7.5 x OD	24A976	24A995	24C015
4	16 AWG	0.29 in	7.5 x OD	24A982	24C002	24C021
4	14 AWG	0.35 in	7.5 x OD	24A988	24C008	24C027
5	20 AWG	0.26 in	7.5 x OD	24A972	24A991	24C011
5	18 AWG	0.28 in	7.5 x OD	24A977	24A996	24C016
5	16 AWG	0.31 in	7.5 x OD	24A983	24C003	24C022
7	18 AWG	0.31 in	7.5 x OD	24A978	24A997	24C017
7	16 AWG	0.39 in	7.5 x OD	24A984	24C004	24C023
7	14 AWG	0.49 in	7.5 x OD	24A989	24C009	24C028
12	20 AWG	0.39 in	7.5 x OD	24A973	24A992	24C012
12	18 AWG	0.45 in	7.5 x OD	24A979	24A998	24C018
12	16 AWG	0.55 in	7.5 x OD	24A985	24C005	24C024
18	20 AWG	0.47 in	7.5 x OD	24A974	24A993	24C013
18	16 AWG	0.67 in	7.5 x OD	24A986	24C006	24C025
20	18 AWG	0.55 in	7.5 x OD	24A980	24A999	24C019
25	16 AWG	0.77 in	7.5 x OD	24A987	24C007	24C026
1,000 V, Unshielded, Continuous Flexing Power Cable						
PVC Jacket Material, Black Jacket Color						
4	14 AWG	0.41 in	7.5 x OD	2TZG1	2TZV8	2WGU9
4	12 AWG	0.47 in	7.5 x OD	2TZG2	2TZV9	2WGV1
4	10 AWG	0.57 in	7.5 x OD	2TZG3	2TZW1	2WGV2
4	8 AWG	0.71 in	7.5 x OD	2TZG4	2TZW2	2WGV3
TPE Jacket Material, Black Jacket Color						
1	10 AWG	0.28 in	7.5 x OD	24C142	—	—
1	8 AWG	0.31 in	7.5 x OD	24C143	—	—
1	4 AWG	0.45 in	7.5 x OD	24C145	—	—
1	2 AWG	0.49 in	7.5 x OD	24C146	—	—
1	1 AWG	0.57 in	7.5 x OD	24C147	—	—
4	14 AWG	0.39 in	7.5 x OD	24C134	—	—
4	10 AWG	0.55 in	7.5 x OD	24C135	—	—
4	6 AWG	0.77 in	7.5 x OD	24C137	—	—

1ATJ4

5PA18

General Cable CAROL BRAND

Security and Alarm Cable

SOUND, ALARM, AND SECURITY CABLE, TYPES CMR AND CMP

For burglar alarms, intercoms, PA systems, and sound systems. Stranded or solid bare copper conductor. Jacket has sequential footage markings to facilitate installation. UL Listed and California State Fire Marshall Approved.

Shielded cable has an aluminum/polyester Flexfoil® shield with stranded, tinned-copper drain wire.

Riser

- Temp. range: -4° to 167°F, except 500-ft. 22-ga. unshielded are -4° to 140°F
- Rated for 300V

Ripcord included.

Plenum

- Temp. range: 32° to 167°F
- Rated for 300V

FIRE ALARM/LIFE SAFETY CABLE, TYPES FPLR AND FPLP

- Compliance: NEC Article 760-61
- Type FPLR meets UL 1666 Vertical Tray Flame Test
- 500-ft. Type FPLP meets UL 910 Test for Flame Propagation and Smoke Density
- 1000-ft. Type FPLP meets NFPA 262 Vertical Tray Flame Test
- Temp. range: -4° to 167°F, except 1000-ft. Type FPLP 32° to 167°F
- Rated for 300V

Ripcord included. California State Fire Marshall Approved. Shielded cable has foil shield with stranded tinned copper drain wire. For wiring fire alarms, smoke detectors, fire protective circuits, burglar alarms, and voice communications. Sequential footage markings to facilitate installation.

			UNSHIELDED		SHIELDED	
Conductor Size	No. of Cond.	L	Riser Rated Item No.	Plenum Rated Item No.	Riser Rated Item No.	Plenum Rated Item No.
Sound, Alarm, and Security Cable, PVC, Beige, Stranded						
22 AWG	2	500 ft.	**1ATG9**	—	—	—
Sound, Alarm, and Security Cable, PVC, Riser Cable Gray, Plenum Cable Natural, Stranded						
22 AWG	2	500 ft.	—	—	**1ATJ8**	—
22 AWG	2	1000 ft.	**4DPJ1**	—	**4DPK1**	**4DPL7**
22 AWG	4	500 ft.	—	—	**1ATJ9**	—
22 AWG	4	1000 ft.	**4DPJ2**	**4DPK8**	**4DPK2**	**4DPL8**
22 AWG	6	500 ft.	—	—	**1ATK6**	—
22 AWG	6	1000 ft.	**4DPJ3**	**4DPK9**	**4DPK3**	**4DPL9**
22 AWG	8	500 ft.	—	—	**1ATK7**	—
20 AWG	2	1000 ft.	—	—	**4DPK4**	**4DPN1**
18 AWG	2	500 ft.	**1ATJ3**	**1ATJ6**	**4DPN4**	**4DPN7**
18 AWG	4	500 ft.	**1ATJ4**	**1ATJ7**	**4DPN5**	**4DPN8**
18 AWG	6	500 ft.	—	—	**4DPN6**	—
18 AWG	6	1000 ft.	**4DPJ5**	**4DPL2**	—	**4DPN9**
16 AWG	2	1000 ft.	**4DPJ6**	**4DPL3**	**4DPK5**	**4DPN2**
16 AWG	4	1000 ft.	**4DPJ7**	**4DPL4**	**6UTX5**	—
14 AWG	2	1000 ft.	**4DPJ8**	**4DPL5**	**4DPK6**	**4DPN3**
14 AWG	4	1000 ft.	**4DPJ9**	—	—	—
Fire Alarm Cable, PVC, Red, Solid						
18 AWG	2	500 ft.	**5PA18**	—	**5PA24**	**5PA30**
18 AWG	4	500 ft.	—	—	**5PA25**	—
18 AWG	4	1000 ft.	—	**4DNZ6**	—	**4DPA7**
18 AWG	6	1000 ft.	—	**4DNZ7**	—	—
16 AWG	2	500 ft.	—	—	**5PA26**	—
16 AWG	2	1000 ft.	**4DNZ4**	**4DNZ8**	**4DPA4**	**4DPA8**
16 AWG	4	1000 ft.	**4DNZ5**	**4DNZ9**	**4DPA5**	**4DPA9**
14 AWG	2	500 ft.	**5PA22**	**5PA29**	—	—
14 AWG	2	1000 ft.	**6UTX8**	**6UTX7**	—	**4DPC1**
14 AWG	4	500 ft.	**5PA23**	—	—	—
14 AWG	4	1000 ft.	**6UTX9**	**4DPA1**	**4DPA6**	**4DPC2**
12 AWG	2	1000 ft.	**6UTX4**	—	—	—

3NXN5

3NXN6

3NXN7

CAROL BRAND General Cable

Sprinkler Wire and Irrigation Cable

- UL Listed for outdoor and direct burial use
- Operating temp.: -4° to 140°F
- Premium-grade, color-coded insulation
- Fully annealed, solid bare copper conductors

Ripcord included. For use in low-voltage commercial, golf course, and residential satellite or solenoid sprinkler control applications.

Wire Size	Jacket Material	Jacket Color	L	Item No.
30 V, Sprinkler Wire				
5 Conductors				
18 AWG	PVC	Black	500 ft	**3NXN5**
7 Conductors				
18 AWG	PVC	Black	500 ft	**3NXN6**
10 Conductors				
18 AWG	PVC	Black	500 ft	**3NXN7**
150 V, Irrigation Cable				
1 Conductors				
14 AWG	PVC	Red	500 ft	**5ZJR5**
14 AWG	PVC	White	500 ft	**5ZJR6**
14 AWG	PVC	Black	500 ft	**5ZJR9**

4A633

Electronic Power-Limited Tray Cable (PLTC)

General Cable CAROL BRAND

- Temp. range: -4° to 221°F
- Resists sunlight
- Stranded conductors
- Gray PVC jacket
- Rated for 300V

Shielded cable has aluminum/polyester Flexfoil® shield with a 25% overlap and outward-facing foil. PVC insulation is color-coded. Suitable for burglar alarms, intercom systems, cash registers, and equipment control circuits.

Conductor Size	Total No. of Conductors	100 ft. Item No.	500 ft. Item No.	1000 ft. Item No.
Multi-Conductor, Unshielded				
18 AWG	2 (0 Pair)	—	—	**5ZJL9**
18 AWG	3 (0 Pair)	**20KZ70**	—	**19G424**
18 AWG	4 (0 Pair)	**20KZ97**	—	—
16 AWG	2 (0 Pair)	**20KZ71**	**19G425**	—
14 AWG	2 (0 Pair)	**20KZ72**	—	—
Multi-Conductor, Shielded				
22 AWG	2 (0 Pair)	—	—	**4DPC3**
22 AWG	3 (0 Pair)	—	—	**4DPC4**
20 AWG	2 (0 Pair)	—	—	**4DPC5**
20 AWG	3 (0 Pair)	—	—	**4DPC6**
18 AWG	2 (0 Pair)	**20KZ73**	**4A633**	**4DPC7**
18 AWG	3 (0 Pair)	**20KZ74**	—	**4DPC8**
16 AWG	2 (0 Pair)	**20KZ75**	**4A648**	**4DPC9**
16 AWG	3 (0 Pair)	**20KZ76**	—	**4DPD1**
14 AWG	2 (0 Pair)	**20KZ98**	—	**4DPD2**
14 AWG	3 (0 Pair)	—	—	**4DPD3**
Multi-Paired, Shielded				
18 AWG	4 (2 Pair)	—	—	**19G438** *
18 AWG	4 (2 Pair)	**20LA01**	—	**19G434**
18 AWG	6 (3 Pair)	—	—	**19G435**
18 AWG	8 (4 Pair)	**20LA02**	—	—

** Individually shielded.*

2W799

1ATD9

Speaker Cable

General Cable CAROL BRAND

FLAT

- Compliance: UL Wires Misc.
- Stranded conductors and PVC insulation
- PVC jacket
- Rated for 120V

For general audio speaker use. Not for in-wall use.

ROUND

- Temp. range: -4° to 140°F (176°F on high-definition)
- Stranded bare copper conductors with premium color-coded polypropylene insulation
- PVC jacket

Designed for stereo systems, in-wall speakers, home theater, and remote control circuits.

No. of Cond.	Color	L	18 AWG Item No.	16 AWG Item No.	14 AWG Item No.	12 AWG Item No.
Flat						
2	Clear	500 ft.	**2W799**	**4DPD4**	**4DPD5**	—
2	Clear	100 ft.	—	—	**20LA27**	**20LA28**
Round						
2	Blue	500 ft.	—	**1ATD9**	—	—
4	Navy	100 ft.	—	**20LA32**	—	—

5LWR3

6CGV6

Type CL2 Thermostat Cable

Southwire

- Polypropylene insulation
- PVC conductors and jacket
- Rated for 150V; plenum rated are 300V
- Operating temp: -20° to 60°C

Solid cable for low-voltage wiring meets Article 725 and is UL Listed.

No. of Cond.	Spool/Coil Length	20 AWG Brown Jacket Item No.	18 AWG Brown Jacket Item No.	18 AWG White Jacket Item No.
Nonplenum				
2	500 ft.	**5LWR3**	**5LWP5**	**6CGV2**
3	500 ft.	—	**5LWP9**	**6CGV6**
4	250 ft.	**5LWR2**	**5LWP7**	—
5	250 ft.	**5LWR4**	**5LWP8**	**6CGV5**
6	250 ft.	**5LWR0**	**5LWP6**	**6CGV3**
8	250 ft.	**5LWR1**	**5LWP4**	—
Plenum				
2	500 ft.	—	—	**30C849**
3	500 ft.	—	—	**30C850**
4	250 ft.	—	—	**30C851**
5	250 ft.	—	—	**30C852**
6	250 ft.	—	—	**30C853**
8	250 ft.	—	—	**30C854**

CAROL BRAND | General Cable

1YPY5

19G597

Communication Cable

- Fully annealed, stranded tinned copper conductors
- Color coded
- 1000-ft. rolls

Cables facilitate cable pull-ins and single-site installations. These cables are typically used for industrial equipment control, electric valve actuation, and remote signaling. Also used for communications and broadcast applications. Multi-paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances, and a reduction of EMI interference currents.

Note: 100- and 500-ft. rolls are available on Grainger.com®.

Conductor Size	Total No. of Conductors	Jacket Material	Jacket Color	Nominal O.D.	Temp. Range	Item No.
Multi-Conductor, Shielded						
24 AWG	2 (0 Pair)	PVC	Gray	0.167 in	-4° to 167°F	**4DNY8**
	3 (0 Pair)	PVC	Gray	0.164 in	-4° to 176°F	**5ZJN0**
	4 (0 Pair)	PVC	Gray	0.175 in	-4° to 176°F	**5ZJN1**
	6 (0 Pair)	PVC	Gray	0.201 in	-4° to 176°F	**5ZJN2**
	15 (0 Pair)	PVC	Gray	0.276 in	-4° to 176°F	**19G454**
22 AWG	2 (0 Pair)	PVC	Gray	0.169 in	-4° to 176°F	**5ZJN3**
	2 (0 Pair)	PVC	Gray	0.167 in	-4° to 167°F	**19G550**
	3 (0 Pair)	PVC	Gray	0.177 in	-4° to 176°F	**5ZJN4**
	3 (0 Pair)	PVC	Gray	0.196 in	-4° to 167°F	**19G555**
	4 (0 Pair)	PVC	Gray	0.19 in	-4° to 176°F	**5ZJN5**
	4 (0 Pair)	PVC	Gray	0.213 in	-4° to 167°F	**19G553**
	6 (0 Pair)	PVC	Gray	0.219 in	-4° to 176°F	**5ZJN6**
20 AWG	2 (0 Pair)	PVC	Gray	0.183 in	-4° to 167°F	**2W594**
	2 (0 Pair)	Rubber	Black	0.27 in	-4° to 140°F	**1YPY4**
	3 (0 Pair)	Rubber	Black	0.285 in	-4° to 140°F	**1YPY5**
	4 (0 Pair)	Rubber	Black	0.3 in	-4° to 140°F	**1YPY6**
	4 (0 Pair)	PVC	Gray	0.236 in	-4° to 176°F	**5ZJN7**
	4 (0 Pair)	PVC	Gray	0.234 in	-4° to 167°F	**4DNY9**
18 AWG	2 (0 Pair)	PVC	Gray	0.203 in	-4° to 221°F	**5ZJP9**
	2 (0 Pair)	PVC	Gray	0.233 in	-4° to 167°F	**2W595**
	3 (0 Pair)	PVC	Natural	0.169 in	32° to 167°F	**5ZJP0**
	3 (0 Pair)	PVC	Gray	0.213 in	-4° to 167°F	**19G557**
	4 (0 Pair)	PVC	Gray	0.238 in	-4° to 176°F	**4DNZ1**
	4 (0 Pair)	PVC	Natural	0.185 in	32° to 167°F	**5ZJN9**
	6 (0 Pair)	Rubber	Black	0.37 in	-4° to 140°F	**1YPY2**
16 AWG	2 (0 Pair)	PVC	Gray	0.307 in	-4° to 167°F	**19G558**
	3 (0 Pair)	PVC	Gray	0.325 in	-4° to 167°F	**19G559**
	4 (0 Pair)	Rubber	Black	0.385 in	-4° to 140°F	**19G498**

Conductor Size	Total No. of Conductors	Jacket Material	Jacket Color	Nominal O.D.	Temp. Range	Item No.
Multi-Conductor, Unshielded						
24 AWG	8 (0 Pair)	PVC	Gray	0.214 in	-4° to 176°F	**19G545**
	10 (0 Pair)	PVC	Gray	0.244 in	-4° to 176°F	**19G548**
22 AWG	2 (0 Pair)	PVC	Gray	0.13 in	-4° to 176°F	**5ZJR0**
	3 (0 Pair)	PVC	Gray	0.176 in	-4° to 176°F	**19G593**
	4 (0 Pair)	PVC	Gray	0.189 in	-4° to 176°F	**19G594**
	6 (0 Pair)	PVC	Gray	0.218 in	-4° to 176°F	**19G597**
	8 (0 Pair)	PVC	Gray	0.23 in	-4° to 176°F	**19G596**
	12 (0 Pair)	PVC	Gray	0.276 in	-4° to 176°F	**19G598**
20 AWG	2 (0 Pair)	PVC	Gray	0.192 in	-4° to 176°F	**4DNZ2**
	4 (0 Pair)	PVC	Gray	0.235 in	-4° to 176°F	**19G635**
	5 (0 Pair)	PVC	Gray	0.254 in	-4° to 176°F	**5ZJR1**
18 AWG	2 (0 Pair)	PVC	Natural	0.156 in	32° to 167°F	**5ZJP1** #
	2 (0 Pair)	PVC	Natural	0.156 in	32° to 167°F	**5ZJP2**
	2 (0 Pair)	PVC	Gray	0.19 in	-4° to 176°F	**19G565**
	3 (0 Pair)	PVC	Natural	0.166 in	32° to 167°F	**5ZJP4**
	3 (0 Pair)	PVC	Gray	0.236 in	-4° to 176°F	**19G566**
	4 (0 Pair)	PVC	Natural	0.182 in	32° to 167°F	**5ZJP3**
	4 (0 Pair)	PVC	Gray	0.258 in	-4° to 176°F	**19G525**
	5 (0 Pair)	PVC	Gray	0.28 in	-4° to 176°F	**19G530**
	7 (0 Pair)	PVC	Gray	0.309 in	-4° to 176°F	**19G531**
	8 (0 Pair)	PVC	Natural	0.239 in	32° to 167°F	**5ZJP5**
	9 (0 Pair)	PVC	Gray	0.358 in	-4° to 176°F	**19G532**
	15 (0 Pair)	PVC	Gray	0.445 in	-4° to 176°F	**19G533**
	19 (0 Pair)	PVC	Gray	0.469 in	-4° to 176°F	**19G534**
16 AWG	2 (0 Pair)	PVC	Gray	0.26 in	-4° to 176°F	**19G526**
	4 (0 Pair)	PVC	Gray	0.306 in	-4° to 176°F	**19G535**
14 AWG	2 (0 Pair)	PVC	Gray	0.326 in	-4° to 194°F	**4DNZ3** †
	2 (0 Pair)	PVC	Natural	0.212 in	32° to 167°F	**5ZJP6**
Multi-Paired, Shielded						
22 AWG	4 (2 Pair)	PVC	Gray	0.16 in	-4° to 176°F	**19G496**
	6 (3 Pair)	PVC	Gray	0.292 in	-4° to 176°F	**2W598**
18 AWG	6 (3 Pair)	PVC	Gray	0.395 in	-4° to 176°F	**19G623**

† CL3 and CMG only. # Pull Pac.

3ZK54

3ZK55

CAROL BRAND

Coaxial Cable

Coaxial Cable Type	Conductor Size	Color	Impedance	Shielding Type	Capacitance	Nominal O.D.	L	Mfr. Model	Item No.
RG-11/U	14 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft	0.395 in	1,000 FT	C5039.41.01	**21Y738**
	14 AWG	White	75 Ohms	(2) 100% Flexfoil, (2) 40% Aluminum Braids, 60% Aluminum Braid	16.0 pf/ft	0.372 in	1,000 FT	C3529.41.02	**21Y723**
RG-174/U	26 AWG	Black	50 Ohms	88% Tinned Copper Braid	13.6 pf/ft	0.103 in	1,000 FT	C1156.41.01	**21Y693**
RG-213/U	13 AWG	Black	50 Ohms	95% Bare Copper Braid	30.8 pf/ft	0.405 in	100 FT	C1176A	**20LA20**
	13 AWG	Black	50 Ohms	95% Bare Copper Braid	30.8 pf/ft	0.405 in	1,000 FT	C1176A.41.01	**21Y695**
RG-58/AU	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	26.0 pf/ft	0.195 in	1,000 FT	C1188.21.01	**3ZK54**
	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	30.8 pf/ft	0.195 in	1,000 FT	C1178A.21.01	**21Y696**
RG-58/U	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	30.0 pf/ft	0.195 in	1,000 FT	C1166.41.01	**5ZJN8**
	20 AWG	Black	50 Ohms	95% Tinned Copper Braid	13.6 pf/ft	0.195 in	1,000 FT	C1155.41.01	**21Y691**
RG-59/U	18/2 AWG 20 AWG	Black	71 Ohms	95% Bare Copper Braid	16.2 pf/ft	0.238 in x 0.440 in	1,000 FT	C8028.41.01	**3NXL8**
	20 AWG	Black	71 Ohms	95% Bare Copper Braid	16.2 pf/ft	0.234 in	1,000 FT	C1142.41.01	**3NXL5**
	20 AWG	Black	75 Ohms	100% Flexfoil, 40% Aluminum Braid	16.2 pf/ft	0.234 in	1,000 FT	C5780.41.01	**21Y747**
	22 AWG	Black	76 Ohms	95% Bare Copper Braid	17.0 pf/ft	0.242 in	100 FT	C1103	**20LA19**
	22 AWG	Black	76 Ohms	95% Bare Copper Braid	17.0 pf/ft	0.242 in	1,000 FT	C1103.41.01	**3NXL4**
RG-6/U	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft	0.275 in	1,000 FT	C5775.31.01	**3ZK56**
	18 AWG	White	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft	0.275 in	1,000 FT	C5775.41.02	**6XWT6**
	18 AWG	White	75 Ohms	(2) 100% Flexfoil, 40% Aluminum Braid, 60% Aluminum Braid, Quad-Shield	16.2 pf/ft	0.292 in	1,000 FT	C5785.41.02	**6XWT7**
	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft	0.275 in	1,000 FT	C5886.31.01	**21Y751** *
	18 AWG	Black	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.2 pf/ft	0.275 in	1,000 FT	C5886.41.01	**21Y752**
	18 AWG	Black	75 Ohms	(2) 100% Flexfoil, (2) 40% Aluminum Braids, 60% Aluminum Braid	16.2 pf/ft	0.292 in	1,000 FT	C5889.31.01	**21Y753** *
	18 AWG	Black	75 Ohms	(2) 100% Flexfoil, (2) 40% Aluminum Braids, 60% Aluminum Braid	16.2 pf/ft	0.292 in	1,000 FT	C5889.41.01	**21Y754**
	18 AWG	Natural	75 Ohms	95% Bare Copper Braid	16.2 pf/ft	0.232 in	1,000 FT	495035.41.86	**21Y957**
	18 AWG 18/2 AWG	Black	75 Ohms	100% Foil, 95% Tinned Copper Braid	16.2 pf/ft	0.27 in	1,000 FT	C8029.41.01	**3NXL7**
RG-62/U	22 AWG	Black	93 Ohms	95% Bare Copper Braid	13.6 pf/ft	0.242 in	1,000 FT	C1164.41.01	**2W592**
RG-8/U	10 AWG	Black	50 Ohms	100% Flexfoil, 88% Tinned Copper Braid	24.6 pf/ft	0.405 in	1,000 FT	C1180.41.01	**21Y697**
	13 AWG	Black	52 Ohms	95% Bare Copper Braid	29.5 pf/ft	0.405 in	1,000 FT	C1154.41.01	**21Y689**
Plenum Rated									
RG-11/U	14 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft	0.351 in	1,000 FT	C3528.41.02	**3NXN1**
RG-58/U	19 AWG	Natural	50 Ohms	95% Bare Copper Braid	25.0 pf/ft	0.161 in	1,000 FT	C3519.41.86	**3ZK55**
RG-59/U	18/2 AWG 20 AWG	Natural	75 Ohms	95% Bare Copper Braid	16.3 pf/ft	0.2 in	1,000 FT	C8030.41.86	**5ZJR2**
	20 AWG	Blue	78 Ohms	100% Flexfoil, 57% Tinned Copper Braid	19.2 pf/ft	0.242 in	1,000 FT	C8001.41.07	**21Y755**
RG-6/U	18 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft	0.232 in	100 FT	C3524	**20KZ88**
	18 AWG	Natural	75 Ohms	(2) 100% Flexfoil, 40% Aluminum Braid, 60% Aluminum Braid	16.0 pf/ft	0.306 in	100 FT	C3525	**20KZ89**
	18 AWG	Natural	75 Ohms	100% Flexfoil, 95% Tinned Copper Braid	16.0 pf/ft	0.233 in	1,000 FT	C3521.41.86	**3ZK58**
	18 AWG	Natural	75 Ohms	100% Flexfoil, 60% Aluminum Braid	16.0 pf/ft	0.232 in	1,000 FT	C3524.41.86	**4DNY5**
	18 AWG	Natural	75 Ohms	(2) 100% Flexfoil, 40% Aluminum Braid, 60% Aluminum Braid	16.0 pf/ft	0.306 in	1,000 FT	C3525.41.86	**4DNY6**
RG-8/U	11 AWG	Black	50 Ohms	95% Bare Copper Braid	26.0 pf/ft	0.405 in	1,000 FT	C1198.41.01	**21Y698**

** Pull-Pac® packaging.*

MONOPRICE

Coaxial Cables

Feature F-type connectors. RG-6 quad shielded. 18 AWG. In-wall rated. 75-ohm impedance.

5RGN8

Color	1.5 ft Item No.	3 ft Item No.	6 ft Item No.	10 ft Item No.	12 ft Item No.	15 ft Item No.
White	14C399	5RGN6	5RGN8	14C403	—	—
Black	—	5RGN5	5RGN7	14C393	5RGP1	14C395

4JY51

5LR24

5LR15

1UKD4

5LR18

4LWY3

4LWY8

4LWZ5

POWER FIRST · IDEAL

Coaxial Connectors

For installation tools, see page 358.

Cable Type	Installation Method	Brand	Item No.	Pkg. Qty.
BNC Femaile				
Coaxial, In-Line Splice Coupler	—	Power First	4JY57	5
BNC Male				
RG-59	Compression	Power First	2UYH2	15
RG-59	Crimp-On (3 Piece)	Power First	4JY52	5
RG-59	Twist-On	Power First	4JY51	5
RG-59 Plenum	Compression	IDEAL	6KJT2	15
RG-6	Compression	Power First	2UYH1	15
F-Type Female				
Coaxial, In-Line Splice Coupler	—	Power First	5LR24	1
F-Type Male				
Coaxial, Terminator Cap	Compression	Power First	5LR15	1
RG-11	Compression	Power First	4LWY5	10
RG-59	Compression	Power First	5LR17	1
RG-59	Compression	Power First	1UKD7	50
RG-59	Twist-On	Power First	5LR23	1
RG-59 with Single/Tri/Quad Shielding	Compression	Power First	4UJL4	50
RG-6	Compression	Power First	1UKD4	10
RG-6	Compression	Power First	1UKD8	50
RG-6	Crimp-On	Power First	5LR16	1
RG-6	Crimp-On (2 Piece)	Power First	5LR18	1
RG-6	Push-On	Power First	4LWY7	4
RG-6	Twist-On	Power First	5LR22	1
RG-6 with Single/Tri/Quad Shielding	Compression	Power First	4LWY3	10
RG-6 with Single/Tri/Quad Shielding	Compression	Power First	4PCZ5	50
RCA Male				
RG-59	Compression	Power First	4LWY8	10
RG-6	Compression	Power First	4LWY9	10

Description	3-WAY Item No.	4-WAY Item No.	5-WAY Item No.
Cable Splitter			
5 to 900 MHz Splitter, 75 Ohm	5LR25	—	—
5-900 MHz Splitter, 75 Ohm	—	5LR26	5LR27
High Performance Splitter, 5 MHz - 1 GHz	4JWT7	—	4JWT9
Satellite and Digital TV Splitter, 5 MHz - 2.3 GHz	4LWZ1	4LWZ2	4LWZ3
Surge Suppression Splitter, 5 MHz - 1 GHz	4LWZ4	—	4LWZ5
Diplexer, SATV/TV Combiner Splitter, 2.1 GHz	4LWZ6	—	—

11Y862

11Y878

12H896

12H892

12H915

DOLPHIN

Coax Connectors

For installation tools, see page 358.

Cable Type	Installation Method	IMPEDANCE 50 ohm Item No.	IMPEDANCE 75 ohm Item No.
BNC Female Coaxial Connector			
RG-58	Crimp-On (2 Piece)	11Y889	—
RG-58	Crimp-On (3 Piece)	11Y894	12H888
RG-58	Twist-On	11Y884	—
RG-58 Plenum	Crimp-On (2 Piece)	—	12H882
RG-59/62	Crimp-On (2 Piece)	11Y890	12H879
RG-59/62	Crimp-On (3 Piece)	11Y895	12H889
RG-59/62	Twist-On	11Y885	12H884
RG-59/62 Plenum	Crimp-On (2 Piece)	11Y892	12H881
RG-59/62 Plenum	Crimp-On (3 Piece)	11Y897	12H891
RG-59/62 Plenum	Twist-On	11Y887	12H886
RG-6	Crimp-On (2 Piece)	11Y891	12H880
RG-6	Crimp-On (3 Piece)	11Y896	12H890
RG-6	Twist-On	11Y886	12H885
RG-6 Plenum	Crimp-On (2 Piece)	11Y893	12H883
RG-6 Plenum	Crimp-On (3 Piece)	11Y898	—
RG-6 Plenum	Twist-On	11Y888	12H887
BNC Male Coaxial Connector			
Belden 8218	Crimp-On (3 Piece)	11Y875	—
RG-174/188/316	Crimp-On (3 Piece)	—	12H876
RG-58	Crimp-On (2 Piece)	11Y865	11Y908
RG-58	Crimp-On (3 Piece)	11Y871	12H872
RG-58	Twist-On	11Y862	11Y903
RG-58 Plenum	Crimp-On (2 Piece)	11Y869	—
RG-58 PVC, RG-59 PVC/PTFE, RG-6 PVC/PTFE	Crimp-On	4KEC7	4KEC6
RG-59	Compression	—	12H906
RG-59/62	Crimp-On (2 Piece)	11Y866	11Y909
RG-59/62	Crimp-On (2 Piece)	11Y872	12H873
RG-59/62	Twist-On	—	11Y904
RG-59/62 Mini	Crimp-On (3 Piece)	11Y876	12H877
RG-59/62 Plenum	Crimp-On (2 Piece)	11Y868	11Y911
RG-59/62 Plenum	Crimp-On (3 Piece)	11Y874	12H875
RG-59/62 Plenum	Twist-On	—	11Y906
RG-59 Plenum	Compression	—	12H907
RG-59 Plenum Quad	Compression	—	12H908
RG-6	Compression	—	12H909
RG-6	Crimp-On (2 Piece)	11Y867	11Y910
RG-6	Crimp-On (3 Piece)	11Y873	12H874
RG-6	Twist-On	11Y863	11Y905
RG-6 Gold	Compression	—	12H910
RG-6 Gold Quad	Compression	—	12H914
RG-6 Plenum	Compression	—	12H911
RG-6 Plenum	Crimp-On (2 Piece)	11Y870	12H871
RG-6 Plenum	Crimp-On (3 Piece)	11Y877	—
RG-6 Plenum	Twist-On	11Y864	11Y907
RG-6 Plenum Quad	Compression	—	12H912
RG-6 Quad	Compression	—	12H913
RG-8/11	Crimp-On (3 Piece)	11Y883	12H878
BNC Male Coaxial Connector (Right Angle)			
RG-59	Compression	—	12H924
RG-59/62	Crimp-On	11Y881	—
RG-59/62	Twist-On	11Y878	—
RG-59/62 Plenum	Twist-On	11Y880	—
RG-59 Plenum	Compression	—	12H925 *
RG-6	Compression	—	12H926 *
RG-6	Crimp-On	11Y882	—
RG-6	Twist-On	11Y879	—
RG-6 Plenum	Compression	—	12H928 *
RG-6 Quad	Compression	—	12H927 *
BNC Male Coaxial Terminator			
Coaxial	Crimp-On	11Y899	11Y901
Coaxial	Crimp-On	—	11Y902 †
F-Type Male Coaxial Connector			
RG-11	Compression	—	12H929
RG-59	Attached Crimp-On Ring	—	12H894
RG-59	Compression	—	12H896
RG-59 Plenum	Attached Crimp-On Ring	—	12H893
RG-59 Plenum	Compression	—	12H897
RG-59 Plenum Quad	Compression	—	12H898
RG-6	Compression	—	12H899
RG-6 Gold	Compression	—	12H901
RG-6 Gold Quad	Compression	—	12H905
RG-6 Plenum	Attached Crimp-On Ring	—	12H892
RG-6 Plenum	Compression	—	12H902
RG-6 Plenum Quad	Compression	—	12H903
RG-6 Quad	Compression	—	12H904
RCA Male Coaxial Connector			
RG-59	Compression	—	12H915
RG-59 Plenum	Compression	—	12H916
RG-59 Plenum Quad	Compression	—	12H917
RG-6	Compression	—	12H918
RG-6 Gold	Compression	—	12H919
RG-6 Gold Quad	Compression	—	12H923
RG-6 Plenum	Compression	—	12H920
RG-6 Plenum Quad	Compression	—	12H921
RG-6 Quad	Compression	—	12H922

** Gold color. † Impedance is 93 Ohms.*

5e Plenum Cable

Category Cable

GenSPEED BRAND · CAROL BRAND · MONOPRICE

Designed with a solid conductor. PVC jackets have sequential foot markings. Outside Plant Cable 1MWZ2 features internal cross-web that maximizes pair separation for enhanced electrical performance. 1MWX7 has helical aluminum armor over inner jacket for increased cable protection and tensile support strength. Meet ANSI/TIA/EIA 568A, ANSI/ICEA S-90-661, and NEMA WC63.1. UL and C-UL Listed.

CAT 5E

- 24-ga. conductors
- 100 Mbps, 155 Mbps, and Gigabit Ethernet
- 100 Base-T
- 52/155 Mbps ATM

All pair counts meet Cat 5e Power Sum backbone transmission requirements; suitable for high-speed data transmission.

CAT 6

- 23-ga. conductors
- 1000 Base-T Gigabit Ethernet, 100 Base-X, 10 Base-T (IEEE 802.3)
- 1000 Base-TX
- 4/16 Mbps Token Ring
- 155 Mbps/1.2 Gbps ATM

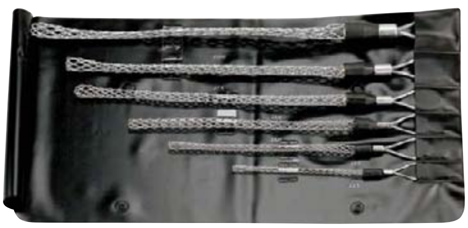
Excellent for digital video and broadband and baseband analog video. Filler design makes cable very round and easy to handle.

Pull-Pac

Reel in a Box

Spool

Category	Total No. of Conductors	Spool Length	Brand	Shielded	BLUE Package Type	BLUE Item No.	WHITE Package Type	WHITE Item No.	GRAY Package Type	GRAY Item No.	YELLOW Package Type	YELLOW Item No.	BLACK Package Type	BLACK Item No.
Riser														
5e	8 (4 Pair)	1,000 ft	GenSpeed	Yes	Spool	**1MUH5**	Spool	**1MUH6**	—	—	—	—	Spool	**1MWX7**
5e	8 (4 Pair)	1,000 ft	GenSpeed	No	Reel in Box	**1MUF6**	Reel in Box	**1MUF8**	Pulling Pack	**3ZK44**	Spool	**4DNW5**	Spool	**1MWX5**
5e	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**5MD21**	Pulling Pack	**5MD20**	Spool	**5MD22**	Pulling Pack	**450X05**	—	—
5e	8 (4 Pair)	1,000 ft	Carol	No	Pulling Pack	**21EN32**	Pulling Pack	**21EN31**	Pulling Pack	**21EN33**	—	—	—	—
5e	8 (4 Pair)	1,000 ft	Monoprice	No	—	—	Box	**425Y29**	Box	**425Y34**	—	—	Box	**425Y31**
5e	8 (4 Pair)	1,000 ft	Monoprice	No	—	—	—	—	—	—	—	—	Box	**425Y35**
5e	8 (4 Pair)	1,000 ft	—	Yes	Box	**425Y32**	—	—	—	—	—	—	—	—
5e	8 (4 Pair)	1,000 ft	—	No	—	—	—	—	—	—	—	—	Box	**425Y36**
5e	8 (4 Pair)	100 ft	GenSpeed	No	Pulling Pack	**30YJ23**	Pulling Pack	**30YJ24**	—	—	—	—	Spool	**30YJ21**
5e	8 (4 Pair)	100 ft	GenSpeed	No	Pulling Pack	**30YJ26**	Pulling Pack	**30YJ25**	—	—	—	—	—	—
5e	8 (4 Pair)	100 ft	Carol	No	Pulling Pack	**30YJ27**	—	—	Pulling Pack	**30YJ28**	—	—	—	—
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Spool	**1MUL8**	Spool	**1MUL9**	Pulling Pack	**4DNV9**	Reel in Box	**1MUN3**	Pulling Pack	**450X06**
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**1MUL7**	Pulling Pack	**1MUN1**	—	—	Pulling Pack	**450X25**	Spool	**1MWZ2**
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Reel in Box	**3WA22**	Pulling Pack	**450X15**	—	—	Pulling Pack	**1MUN4**	Pulling Pack	**450X08**
6	8 (4 Pair)	1,000 ft	Carol	No	Pulling Pack	**21EN38**	Pulling Pack	**21EN37**	Pulling Pack	**21EN39**	—	—	—	—
6	8 (4 Pair)	1,000 ft	GenSpeed	Yes	Spool	**450X07**	—	—	—	—	—	—	—	—
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**450X14**	—	—	—	—	—	—	—	—
6	8 (4 Pair)	1,000 ft	Monoprice	No	Spool	**425Y38**	—	—	—	—	—	—	Spool	**425Y41**
6	8 (4 Pair)	1,000 ft	Monoprice	No	—	—	—	—	—	—	—	—	Spool	**425Y42**
6	8 (4 Pair)	1,000 ft	Monoprice	Yes	—	—	—	—	Spool	**425Y40**	—	—	—	—
6	8 (4 Pair)	1,000 ft	—	No	—	—	Spool	**425Y39**	—	—	—	—	—	—
6	8 (4 Pair)	100 ft	Carol	No	Pulling Pack	**30YJ31**	—	—	—	—	—	—	—	—
6	8 (4 Pair)	100 ft	GenSpeed	No	—	—	—	—	—	—	—	—	Spool	**30YJ22**
6A	8 (4 Pair)	1,000 ft	Monoprice	No	—	—	Spool	**425Y52**	—	—	—	—	Spool	**425Y54**
6A	8 (4 Pair)	1,000 ft	—	No	Spool	**425Y43**	Spool	**425Y44**	Spool	**425Y53**	—	—	Spool	**425Y46**
6A	8 (4 Pair)	1,000 ft	—	No	Spool	**425Y47**	Spool	**425Y48**	—	—	—	—	—	—
6A	8 (4 Pair)	1,000 ft	—	Yes	—	—	—	—	—	—	—	—	Spool	**425Y50**
6A	8 (4 Pair)	1,000 ft	—	No	Spool	**425Y51**	—	—	—	—	—	—	—	—
6A	8 (4 Pair)	1,000 ft	GenSpeed	No	Spool	**60UP01**	Spool	**60UP02**	—	—	—	—	—	—
Plenum														
5e	8 (4 Pair)	1,000 ft	GenSpeed	No	Spool	**3ZK40**	Pulling Pack	**5MD18**	Pulling Pack	**5MD19**	Pulling Pack	**4DNW4**	Pulling Pack	**450X02**
5e	8 (4 Pair)	1,000 ft	GenSpeed	Yes	Spool	**1MUH2**	—	—	Spool	**4DNV7**	—	—	—	—
5e	8 (4 Pair)	1,000 ft	Carol	No	Pulling Pack	**21EN35**	Pulling Pack	**21EN34**	Pulling Pack	**21EN36**	—	—	—	—
5e	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**5MD17**	—	—	—	—	—	—	—	—
5e	8 (4 Pair)	100 ft	Carol	No	Pulling Pack	**30YJ29**	—	—	Pulling Pack	**30YJ30**	—	—	—	—
6	8 (4 Pair)	1,000 ft	Monoprice	No	—	—	—	—	—	—	—	—	Box	**425Y37**
6	8 (4 Pair)	1,000 ft	Carol	No	Pulling Pack	**21EN41**	Pulling Pack	**21EN40**	Pulling Pack	**21EN42**	—	—	—	—
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Reel in Box	**3WA23**	Spool	**1MUL1**	Pulling Pack	**450X11**	Spool	**1MUL4**	Pulling Pack	**450X12**
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**1MUH8**	Pulling Pack	**450X10**	—	—	Pulling Pack	**450X13**	—	—
6	8 (4 Pair)	1,000 ft	GenSpeed	No	Pulling Pack	**450X09**	Pulling Pack	**1MUL2**	—	—	Pulling Pack	**1MUL5**	—	—
6	8 (4 Pair)	100 ft	Carol	No	Pulling Pack	**30YJ32**	—	—	Pulling Pack	**30YJ33**	—	—	—	—
Commercial														
5E	8 (4 Pair)	1,000 ft	Triplett	No	Spool Box	**61KW98**	—	—	—	—	—	—	—	—
6	8 (4 Pair)	1,000 ft	Triplett	No	Spool Box	**61KW99**	—	—	—	—	—	—	Wooden Drum	**61KW97**
6A	8 (4 Pair)	1,000 ft	Triplett	No	Spool Box	**61KX01**	—	—	—	—	—	—	Spool Box	**61KX02**



Pulling Grip Kit
6D189

Light-Duty
6D212

HUBBELL® Wiring Device-Kellems

Pulling Grips

Strong galvanized steel mesh grips provide positive holding power while pulling electrical, data, and communication wires at low tension through conduit. Rubber boot contains and protects cable ends. Flexible single eye provides easy attachment to pulling lines and fish tapes. Reusable and easily installed. CSA Certified.

Note: Always use a Safety Factor in application. Never use grips at tensions up to listed breaking strength. Recommended Safety Factor of 5.

Cable Dia. Range	Breaking Strength	Eye Length	Mesh Length	Item No.
Junior				
0.25 in to 0.36 in	450 lb	3 ¼ in	4 ¼ in	**6C107**
0.37 in to 0.49 in	900 lb	3 ¾ in	7 in	**6C108**
0.50 in to 0.62 in	1,300 lb	4 ¼ in	8 ½ in	**6C109**
0.63 in to 0.74 in	1,950 lb	5 in	10 in	**6C110**
0.75 in to 0.99 in	2,800 lb	5 ¾ in	10 in	**6C111**
1.00 in to 1.24 in	3,900 lb	6 ½ in	11 ½ in	**6C112**
Kit contains 1 of each size above and storage pouch				**6D189**
Light-Duty				
0.50 in to 0.62 in	2,800 lb	5 in	16 in	**6D212**
0.63 in to 0.74 in	2,800 lb	5 in	16 in	**6D213**
0.75 in to 0.99 in	4,000 lb	6 in	20 in	**6D214**
1.00 in to 1.24 in	6,800 lb	7 in	20 in	**6D215**
1.25 in to 1.49 in	6,800 lb	7 in	21 in	**6D216**
1.50 in to 1.99 in	6,800 lb	8 in	23 in	**6D217**
2.00 in to 2.49 in	8,500 lb	9 in	25 in	**6D218**

19N902

6RHW5

TRIPP·LITE

Data Comm Cabinets

Perfect for organizing and protecting rack-mount servers, storage, and network/telecom equipment quickly. Black finish. See this page for rack-mount power distribution units.

Item	Rack Units	Load Rating	Material	H	W	D	Mfr. Model	Item No.
Wall Mount								
Smart Rack Enclosure	6U	140 lbs.	Heavy Duty Steel	14.0 in	23.0 in	17.0 in	SRW6U	**19N902**
Open Frame Rack	12U	150 lbs.	Steel	30.45 in	19.76 in	20.35 in	SRWO12US	**6HKP0**
Rack Enclosure	12U	140 lbs.	Steel	27.95 in	26.38 in	21.6 in	SRW12US	**6HKN7**
Rack Enclosure	12U	250 lbs.	Steel	25.0 in	23.63 in	33.5 in	SRW12US33	**6HKN8**
Rack Enclosure	12U	140 lbs.	Steel	25.0 in	23.63 in	21.6 in	SRW12USG	**6HKN9**
Open Frame Rack	12U, 22U, 8U	150 lbs.	Steel	42.3 in	20.11 in	18.24 in	SRWO8U22	**6HKP1**
Floor Mount								
Open Frame Rack,4-Post	13U	1000 lbs.	Steel	28.0 in	20.2 in	34.3 in	SR4POST13	**6HKP4**
Open Frame Rack,2-Post	25U	800 lbs.	Aluminum	49.0 in	20.3 in	14.0 in	SR2POST25	**6HKP3**
Rack Enclosure	42U	2250 lb Rolling, 3000 lb Stationary	Steel	78.5 in	23.63 in	43.0 in	SR42UB	**6RHW5**
Rack Enclosure	42U	2250 lb Rolling, 3000 lb Stationary	—	78.5 in	43.0 in	23.63 in	SR42UBZ4	**14A335**
Rack Enclosure	42U	2250 lb Rolling, 3000 lb Stationary	—	78.5 in	32.0 in	23.63 in	SR42UBSD	**13J809**
Open Frame Rack	45U	1000 lbs.	—	84.3 in	39.4 in	20.3 in	SR4POST1224	**14A334**
Accessories								
Rolling Caster Kit, For Use With 6HKP4,6HKN7, AND 6HKN8. Allows 4 Post Open Frame Racks and SRW12US to Become Mobile, Heavy Duty 550 lb (Per Caster) Rating							SRCASTER	**6HKP2**

TRIPP·LITE

APC by Schneider Electric

RITTAL

14A325

6ECK2

6RHW4

Power Distribution Units

Offer reliable rack-mount multioutlet power distribution from any supplied power source. High-quality design includes rugged all-metal housing and secure rack-mount installation with included mounting accessories. Metered units offer real-time local reporting of load levels via built-in digital meter.

Plug Type	Receptacle Type	No. of Outlets	Voltage	Max. Amps	Cord Length	H	W	L	Brand	Mfr. Model	Item No.
Nonmetered											
IEC-320 C14	IEC-320 C14	8	200 to 208/240V AC	10 A	6 ft	3 27/64 in	17 21/64 in	3 1/32 in	Tripp Lite	PDUBHV10	**14A325**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	16	120V AC	20 A	12 ft	1 ¾ in	17 ½ in	14 ½ in	Tripp Lite	PDUMH20ATNET	**2GZR9**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	16	120V AC	20 A	12 ft	1 ¾ in	17 ½ in	14 ½ in	Tripp Lite	PDUMH20AT	**2GZT2**
NEMA 5-20P, NEMA L5-20P	NEMA 5-15/20R	20	120V AC	20 A	15 ft	1 ¼ in	1 ¾ in	60 in	Tripp Lite	PDUMV20	**2GZT5**
NEMA 5-15P	NEMA 5-15R	8	120V AC	15 A	12 ft	1 ¾ in	17 ½ in	14 ½ in	Tripp Lite	PDUMH15ATNET	**2GZR8**
NEMA 5-15P	NEMA 5-15R	8	120V AC	15 A	12 ft	1 ¾ in	17 ½ in	14 ½ in	Tripp Lite	PDUMH15AT	**2GZT1**
NEMA 5-15P	NEMA 5-15R	10	120V AC	15 A	12 ft	2 ¾ in	9 in	17 39/64 in	APC	AP9562	**6ECK4**
NEMA 5-15P	NEMA 5-15R	10	120V AC	15 A	15 ft	2 ¼ in	4 in	17 ½ in	Tripp Lite	TLM1015NC	**33L715**
NEMA 5-15P	NEMA 5-15R	13	120V AC	15 A	15 ft	1 ¾ in	17 ½ in	4 ½ in	Tripp Lite	PDUMH15	**2GZT3**
NEMA 5-15P	NEMA 5-15R	13	120V AC	15 A	15 ft	1 ¾ in	17 ½ in	4 ½ in	Tripp Lite	PDU1215	**6RHW0**
NEMA 5-15P	NEMA 5-15R	16	120V AC	15 A	15 ft	3 in	1 ½ in	48 in	Tripp Lite	PDUMV15	**2GZT4**
NEMA L5-30P	NEMA 5-20R	10	120V AC	20 A	12 ft	1 ¾ in	2 ¼ in	17 39/64 in	APC	AP9560	**6ECK3**
NEMA L5-30P	NEMA 5-15R	24	120V AC	30 A	15 ft	1 ¾ in	17 ½ in	4 ½ in	Tripp Lite	PDU2430	**6RHW2**
NEMA L5-20P	NEMA 5-20R	10	120V AC	20 A	12 ft	2 ¾ in	9 in	17 39/64 in	APC	AP9564	**6ECK5**
NEMA L5-20P	NEMA 5-20R	13	120V AC	20 A	15 ft	1 ¾ in	17 ½ in	4 ½ in	Tripp Lite	PDU1220T	**6RHW1**
NEMA L5-20P	NEMA 5-20R	24	120V AC	20 A	10 ft	1 ¾ in	2 13/64 in	63 ¾ in	APC	AP7530	**6ECK2**
NEMA L6-30P	(20) IEC 320 C13,(4) IEC 320 C19	24	208V AC	30 A	10 ft	1 ¾ in	2 13/64 in	63 ¾ in	APC	AP7541	**6ECK6**
NEMA L6-30P	(32) C13, (6) C19	38	208/240V AC	30 A	10 ft	3 ¾ in	2 ¼ in	63 ¾ in	Tripp Lite	PDUV30HV	**6RHW4**
Metered											
IEC-320 C20, NEMA L6-20P	(2) C19, (8) C13	10	208/240V AC	20 A	12 ft	1 ¾ in	17 ½ in	6 ½ in	Tripp Lite	PDUMH20HV	**14A324**
NEMA 5-15P	NEMA 5-15R	8	120V AC	15 A	12 ft	1 ¾ in	13 ¼ in	17 15/32 in	APC	AP7800B	**6ECK7**

Power Cords

APC by Schneider Electric

- Temp. range: -32° to 167°F

Locking right-angle cords are designed with a rubber/plastic jacket type, and copper gauge conductors. Locking power cords are compatible with AP8000 Series Metered, Switched, and Metered-by-Outlet Rack PDUs.

NEMA Plug Config.	Connector End	Cord Length	Type	Max. Amps	Voltage	Item No.	Pkg. Qty.
5-15P	IEC-320 C19	10 ft	Locking	15.0 A	120V AC	**43Y970**	1
5-20P	IEC-320 C19	10 ft	Locking	20.0 A	120V AC	**43Y971**	1
L5-20P	IEC-320 C19	10 ft	Locking	20.0 A	120V AC	**43Y972**	1
L6-20P	IEC-320 C19	10 ft	Locking	20.0 A	208V AC	**43Y973**	1
IEC-320 C19	IEC-320 C20	2 ft	Locking	16.0 A	120V AC	**43Y966**	6
IEC-320 C19	IEC-320 C20	4 ft	Locking	16.0 A	120V AC	**43Y968**	6
IEC-320 C19	IEC-320 C20	4 ft	Locking, Right Angle	16.0 A	120V AC	**43Y967**	6
IEC-320 C19	IEC-320 C20	6 ft	Locking	16.0 A	120V AC	**43Y969**	6
IEC-320 C19	IEC-320 C20	10 ft	Locking	16.0 A	120V AC	**43Y974**	1

43Y974

Scan. Order. Done.
Details on page A1.

40JZ85

6RHW7

Dayton TRIPP·LITE

Portable Air Conditioners

- 6-ft. power cord with NEMA 5-15 plug
- 120V

Zero-maintenance design. No floor drain necessary or water tank to empty. Features touch-sensitive control panel and 3 cooling speeds. 6RHW7 includes 71" tube to aim cold air where needed.

BtuH Cooling	Amps	W	H	D	Brand	Item No.
10,000	11 A	11 ¾ in	24 ¾ in	17 ¾ in	Dayton	40JZ85
12,000	7 A	12 ⅝ in	32 ⅝ in	19 ¾ in	Tripp Lite	6RHW7

5ZVX5

5ZVY1

PANDUIT

Racks and Accessories

Provide protection, management, and organization to data centers and telecommunication rooms.

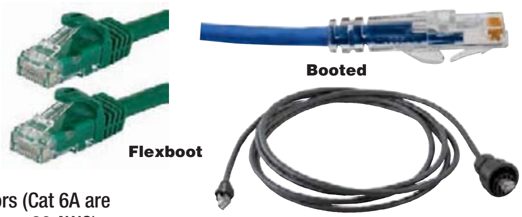
PATCH PANELS

Mount to 19" and 23" racks. Easy to identify with preprinted numbers, write-on areas, and optional label kits.

Rack Units	Material of Construc.	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Cable Management Rack						
45	Aluminum	84	20.3	3	R2P	5ZWJ0
Dual Side Vertical Manager						
45	ABS	84 in	5 in	12 in	WMPV45E	5ZWJ1
Dual Side Horizontal Finger Manager						
1	ABS	1.7 in	19.0 in	8.9 in	WMPSE	5ZWJ2
2	ABS	3.5 in	19.0 in	8.9 in	WMP1E	5ZWJ3
Dual Side Horizontal Ring Manager						
1	ABS, Steel	1.7 in	19.0 in	8.6 in	CMPH1	5ZWJ4
2	ABS, Steel	3.5 in	19.0 in	8.6 in	CMPH2	5ZWJ5
Single Side Horizontal Ring Manager						
1	ABS, Steel	1.7 in	19.0 in	3.4 in	CMPHF1	5ZWJ6

Category Type	No. of Ports	Connectors per Panel	Rack Units	T568 Std.	Panel Type	Mfr. Model	Item No.
Patch Panels							
5e	24	24	1	A/B	110	DP245E88TGY	5ZVX5
5e	48	48	2	A/B	110	DP485E88TGY	5ZVX7
6	24	24	1	A/B	110	DP24688TGY	5ZVX6
6	48	48	2	A/B	110	DP48688TGY	5ZVX8
Mini-Com	24	24	1	—	Modular	CPP24WBLY	5ZVX9
Mini-Com	48	48	2	—	Modular	CPP48WBLY	5ZVY1
Patch Panels with Labels							
Mini-Com	24	24	1	—	Modular	CPPL24WBLY	5ZVY0
Mini-Com	48	48	2	—	Modular	CPPL48WBLY	5ZVY2

MONOPRICE
HUBBELL® Hubbell Premise Wiring



Patch Cords

- Snagless RJ45 connectors
- 24 AWG unshielded conductors (Cat 6A are 26 AWG shielded, flat cables are 30 AWG)

Category	Length	BLACK Item No.	BLUE Item No.	GRAY Item No.	GREEN Item No.	ORANGE Item No.	PINK Item No.	PURPLE Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
Monoprice											
Booted Boot Type											
5e	0.5 ft	5PZP3	5PZP4	—	5PZP6	5PZP7	—	5PZP9	5PZR0	5PZR1	5PZR2
5e	1.0 ft	5PZR3	5PZR4	5PZR5	5PZR6	5PZR7	—	5PZR9	5PZT0	5PZT1	5PZT2
5e	2.0 ft	5PZT3	5PZT4	5PZT5	5PZT6	5PZT7	—	5PZT8	5PZT9	5PZU0	5PZU1
5e	3.0 ft	5PZU2	5PZU3	5PZU4	5PZU5	5PZU6	5PZU7	5PZU8	5PZU9	5PZV0	5PZV1
5e	5.0 ft	5PZV2	5PZV3	5PZV4	5PZV5	14A981	5PZV6	5PZV7	5PZV8	5PZV9	5PZW0
5e	7.0 ft	5PZW1	5PZW2	5PZW3	5PZW4	5PZW5	5PZW6	5PZW7	5PZW8	5PZW9	5PZX0
5e	10 ft	5PZX1	5PZX2	5PZX3	5VYY9	5VYZ0	5VYZ1	5VYZ2	5VYZ3	5VYZ4	5VYZ5
5e	14 ft	5VYZ6	5VYZ7	5VYZ8	5VYZ9	5VZA0	5VZA1	5VZA2	5VZA3	5VZA4	5VZA5
5e	20 ft	5VZA6	5VZA7	5VZA8	5VZA9	5VZC0	5VZC1	—	5VZC3	5VZC4	5VZC5
5e	25 ft	5VZC6	5VZC7	5VZC8	5VZC9	5VZD0	5VZD1	5VZD2	5VZD3	5VZD4	5VZD5
5e	30 ft	5VZD6	5VZD7	5VZD8	5VZD9	5VZE0	—	5VZE2	5VZE3	5VZE4	5VZE5
5e	50 ft	5VZE6	5VZE7	5VZE8	5VZE9	5VZF0	—	5VZF2	5VZF3	5VZF4	5VZF5
5e	75 ft	5VZF6	5VZF7	5VZF8	5VZF9	—	—	5VZG2	—	5VZG4	5VZG5
5e	100 ft	5VZG6	5VZG7	5VZG8	5VZG9	5VZH0	—	5VZH2	5VZH3	5VZH4	5VZH5
6	0.5 ft	13U522	13U523	13U524	13U525	13U526	13U528	13U527	13U529	13U530	13U531
6	1.0 ft	5VZH6	5VZH7	5VZH8	5VZH9	5VZJ0	—	5VZJ1	5VZJ2	5VZJ3	5VZJ4
6	2.0 ft	14A979	5VZJ5	5VZJ6	5VZJ7	5VZJ8	—	5VZJ9	5VZK0	5VZK1	5VZK2
6	3.0 ft	5VZK3	5VZK4	5VZK5	5VZK6	5VZK7	—	—	5VZK9	5VZL0	5VZL1
6	5.0 ft	5VZL2	5VZL3	5VZL4	5VZL5	5VZL6	—	5VZL7	5VZL8	5VZL9	14A983
6	7.0 ft	5VZN0	5VZN1	5VZN2	5VZN3	5VZN4	—	—	5VZN6	5VZN7	5VZN8
6	10 ft	5VZP0	5VZP1	5VZN9	5VZP2	5VZP3	—	5VZP4	5VZP5	5VZP6	5VZP7
6	14 ft	5VZP8	5VZP9	5VZR0	14A980	5VZR1	—	5VZR2	5VZR3	—	5VZR5
6	20 ft	5VZR6	5VZR7	5VZR8	5VZR9	5VZT0	—	5VZT1	5VZT2	5VZT3	5VZT4
6	25 ft	5VZT5	5VZT6	5VZT7	5VZT8	5VZT9	—	5VZU0	5XFG6	5XFG7	5XFG8
6	30 ft	5XFG9	5XFH0	5XFH1	5XFH2	5XFH3	—	5XFH4	5XFH5	5XFH6	—
6	50 ft	5XFH8	5XFH9	5XFJ0	5XFJ1	5XFJ2	—	5XFJ3	5XFJ4	5XFJ5	5XFJ6
6	75 ft	5XFJ7	5XFJ8	5XFJ9	5XFK0	—	—	—	5XFK3	5XFK4	—
6	100 ft	5XFL0	5XFL1	5XFL2	5XFL3	5XFL4	—	5XFK6	—	5XFK8	5XFK9
Flexboot Boot Type											
6	0.5 ft	—	38F941	—	38F942	38F943	—	—	38F944	38F945	38F946
6	1.0 ft	38F947	—	—	38F948	—	—	38F951	—	38F950	38F949
6	2.0 ft	38F954	38F955	38F952	38F956	38F957	—	38F958	38F959	38F953	—
6	3.0 ft	38F963	38F961	38F962	—	38F960	—	38F966	38F964	38F965	—
6	5.0 ft	38F967	38F968	38F969	38F970	—	—	38F971	38F972	38F973	38F974
6	7.0 ft	38F977	38F975	38F976	38F978	—	—	38F981	38F979	—	38F980
6	10 ft	38F982	38F983	38F984	38F985	38F986	—	38F987	38F988	38F989	38F990
6	14 ft	38F993	38F991	38F992	—	—	—	38F996	38F994	38F995	—
6	20 ft	—	—	38F997	—	—	—	—	38F998	38F999	—
6	25 ft	38G002	—	—	38G003	38G001	—	38G006	—	38G005	38G004
6	30 ft	38G007	—	—	—	—	—	—	38G008	—	38G009
6	50 ft	38G014	38G012	38G013	38G015	38G010	—	38G017	—	38G011	38G016
6	75 ft	38G018	—	—	—	—	—	38G019	—	—	38G020
6	100 ft	38G023	38G021	38G022	38G024	—	—	—	38G025	—	38G026

Category	Length	BLACK Item No.	BLUE Item No.	GRAY Item No.	YELLOW Item No.
Hubbell					
Booted Cord End					
6	7.0 ft	6YTK3	—	—	—
6	15 ft	6YTK4	—	—	—
Clear Boot Cord End					
5e	3.0 ft	6YTH7	6YTH1	6YTG5	6YTJ3
5e	5.0 ft	6YTH8	6YTH2	6YTG6	6YTJ4
5e	7.0 ft	6YTH9	6YTH3	6YTG7	6YTJ5
5e	10 ft	6YTJ0	6YTH4	6YTG8	6YTJ6
5e	15 ft	6YTJ1	6YTH5	6YTG9	6YTJ7
5e	20 ft	6YTJ2	6YTH6	6YTH0	6YTJ8
6	3.0 ft	6YTE7	6YTF9	6YTE1	6YTF3
6	5.0 ft	6YTE8	6YTG0	6YTE2	6YTF4
6	7.0 ft	6YTE9	6YTG1	6YTE3	6YTF5
6	10 ft	6YTF0	6YTG2	6YTE4	6YTF6
6	15 ft	6YTF1	6YTG3	6YTE5	6YTF7
6	20 ft	6YTF2	6YTG4	6YTE6	6YTF8
6A	1.0 ft	—	49K851	—	—
6A	3.0 ft	—	22LU67	22LU73	22LU79
6A	5.0 ft	—	22LU68	22LU74	22LU80
6A	7.0 ft	—	22LU69	22LU75	22LU81
6A	10 ft	—	22LU70	22LU76	22LU82
6A	15 ft	—	22LU71	22LU77	22LU83
6A	20 ft	—	22LU72	22LU78	22LU84
6A	25 ft	—	49K853	—	—
6A	30 ft	—	49K854	—	—
6A	35 ft	—	49K855	—	—
6A	40 ft	—	49K856	—	—
6A	45 ft	—	49K857	—	—
6A	50 ft	—	49K858	—	—
6A	55 ft	—	49K859	—	—
6A	60 ft	—	49K860	—	—
6A	100 ft	—	49K852	—	—
High Impact Cord End					
6	7.0 ft	6YTJ9	—	—	—
6	10 ft	6YTK1	—	—	—
6	15 ft	6YTK2	—	—	—
6	15 ft	6YTK0	—	—	—
Monoprice					
Flexboot Cord End					
5e	0.5 ft	38F927	—	—	—
5e	1.0 ft	38F928	—	—	—
5e	2.0 ft	38F929	—	—	—
5e	3.0 ft	38F930	—	—	—
5e	5.0 ft	38F931	—	—	—
5e	7.0 ft	38F932	—	—	—
5e	10 ft	38F933	—	—	—
5e	14 ft	38F934	—	—	—
5e	20 ft	38F935	—	—	—
5e	25 ft	38F936	—	—	—
5e	30 ft	38F937	—	—	—
5e	50 ft	38F938	—	—	—
5e	75 ft	38F939	—	—	—
5e	100 ft	38F940	—	—	—

25D131

Data Comm Cord Reel

LIND EQUIPMENT WORK CONFIDENTLY.

- Temp. range: 0° to 80°F
- 30V

Steel reels Include wall and ceiling bracket and cord. UL Listed and CSA Certified.

NEC Cord Designation	Cord Length	Voltage	Gauge/ Conductor	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.
CAT6	20 ft.	30VDC	24/8	6½"	6½"	2½"	LE2320CAT	25D131

MONOPRICE

Modular Plugs, Telephone Cords, Wire, and Splices

13U661

Connector Type	No. of Contacts	No. of Positions	Cable Type	Simplex/ Duplex	Wire Type	Item No.	Pkg. Qty.
Modular Plugs							
RJ11	4	6	Flat	Duplex	Stranded	**13U657**	50
RJ11	4	6	Round	Duplex	Solid	**13U658**	50
RJ11	4	6	Round	Simplex	Stranded	**13U665**	50
RJ12	6	6	Flat	Duplex	Stranded	**13U659**	50
RJ12	6	6	Round	Duplex	Solid	**13U660**	50
RJ12	6	6	Round	Duplex	Stranded	**13U661**	50
RJ45	8	8	Cat5	Duplex	Shielded	**13U647**	100
RJ45	8	8	Cat5, Cat5e	Duplex	Solid	**13U652**	100
RJ45	8	8	Cat5, Cat5e	Duplex	Stranded	**13U653**	100
Modular Plug with Inserts							
RJ45	8	8	Cat6	Duplex	Solid	**13U654**	100
Modular Plugs							
RJ45	8	8	Cat6	Duplex	Stranded	**13U655**	100
RJ45	8	8	Cat6	Duplex	Stranded	**13U656**	50
RJ45	8	8	Cat6	Simplex	Stranded	**13U664**	100

13U663

14J361

14J360

14J353

14J358

Couplers and Splitters

MONOPRICE

Description	Connector Type	No. of Contacts	No. of Positions	Color	Item No.
Telephone					
Inline Coupler	RJ12	6	6	Beige	**13U663**
Line Splitter, 2-Way, 1 Male to 2 Female	RJ11	4	6	Beige	**14J359**
Line Splitter, 2-Way, 1 Female to 2 Female	RJ45	8	8	Beige	**14J361**
Line Splitter, 3-Way, 1 Male to 3 Female	RJ11	4	6	Beige	**14J360**
Ethernet, Cat 5e					
Shielded Inline Coupler	RJ45	8	8	Silver	**14J353**
Inline Coupler	RJ45	8	8	Black	**14J355**
Inline Coupler	RJ45	8	8	White	**14J356**
Inline Coupler	RJ45	8	8	Beige	**14J352**
Ethernet, Cat 6					
Inline Coupler	RJ45	8	8	White	**14J358**

SIEMENS

Ethernet Switches

12N878

Ethernet switches are used to expand business data networks so more users can link to a local area network (LAN) to share information. They provide multiple ports for connecting coaxial cable and data cables to connect workstations to the hub.

Type	Ports	Port Type	Input Voltage	Item No.
Ethernet Switch				
2 Port	2	RJ45	24V DC	**56JE18**
Unmanaged	4/1	RJ45/ SC Multimode	24V DC	**12N876**
Unmanaged	4/1	RJ45/ SC Multimode	24V DC	**12N877**
Unmanaged	5	RJ45	24V DC	**12N878**
Gigabit Ethernet Switch				
Unmanaged	4/1	RJ45/ SC Mulitmode	24V DC	**12N880**
IE Entry Level Switch				
5 Port Unmanaged	5	RJ45	24V DC	**56JE15**
IE Switch				
10 Port Managed	7/3	RJ45/SC Multimode	24V DC	**56JE21**
10 Port Managed	8/2	RJ45/SC Multimode	24V DC	**56JE22**
10 Port Managed	10	RJ45	24V DC	**56JE23**
16 Port	16	RJ11, RJ45	24V DC	**56JE20**
2 Port Power Over, 6 Port Unmanaged	2/6	RJ45	24V DC	**56JE19**
Industrial Ethernet Switch				
8 Port Unmanaged	8	RJ45	24V DC	**56JE17**
8 Port Unmanaged Twisted Pair	8	RJ45	24V AC/DC	**56JE16**

6MK46

HUBBELL®
Hubbell Premise Wiring

3XA64

5LV22

6MK51

Keystone Jacks, Boxes, and Wall Plates

ISTATION SERIES KEYSTONE JACKS

Allow for multiple connectors within HPW flush plates/housings.

ISB SERIES SURFACE MOUNT BOXES

Covers snap on without the use of tools or hardware. TIA/EIA-606 label fields included.

IFP SERIES WALL PLATES

Flush-mounting wall plates accept all Hubbell Premise Wiring Xcelerator® jacks and SF Series snap-in multimedia and fiber connectors. TIA/EIA-606 labels are located over each of the screw-mounted holes.

Termination Type	Cable Type	OFFICE WHITE Item No.	GRAY Item No.	WHITE Item No.	ELECTRIC IVORY Item No.	BLACK Item No.	BLUE Item No.
iSTATION Series Keystone Jacks							
110 Punch-Down	RCA (Red)	—	—	—	—	**15D921**	—
110 Punch-Down	RCA (Yellow)	—	—	—	—	**22LV30**	—
Coupler	3.5mm Stereo Audio	**15D931**	—	**15D932**	—	—	—
Coupler	BNC	**15D936**	—	**15D937**	—	—	—
Coupler	F-Type	**5LW09**	**6MK47**	**6MK48**	**6MK46**	—	—
Coupler	HDMI 1.4	—	—	—	—	**22LV29**	—
Coupler	RCA (Blue)	—	**22LV35**	**22LV36**	**22LV34**	—	—
Coupler	RCA (White)	**15D926**	—	—	—	—	—
Coupler	USB 2.0 A	—	—	—	—	—	**15D938**
Screw	3.5mm Stereo Audio	**15D929**	—	**15D930**	—	—	—
USB 2.0 B Female	USB 2.0 A	—	—	—	—	—	**15D939**

No. of Ports	No. of Gangs	L	W	D	WHITE Item No.	OFFICE WHITE Item No.	IVORY Item No.	GRAY Item No.
ISB Series Surface Mount Boxes								
1	—	2.38"	1.30"	1.08"	**22LV07**	**3VE16**	—	—
2	—	2.38"	2.30"	1.08"	**3XA64**	**3XA65**	**3XA63**	—
6	—	6.50"	4.00"	1.23"	**22LV09**	**22LV08**	—	—
12	—	49.5"	24.00"	12.91"	**22LV06**	**22LV05**	—	—
IFP Series Wall Plates								
1	1	4.5 in	2.75 in	0.37 in	**6MH77**	**5LV22**	**6MH75**	**6MH76**
2	1	4.5 in	2.75 in	0.37 in	**6MH80**	**5LV23**	**6MH78**	**6MH79**
3	1	4.5 in	2.75 in	0.37 in	**6MH83**	**5LV24**	**6MH81**	**6MH82**
4	1	4.5 in	2.75 in	0.37 in	**6MH86**	**5LV25**	**6MH84**	**6MH85**
6	1	4.5 in	2.75 in	0.37 in	**6MH89**	—	**6MH87**	**6MH88**
6	2	4.5 in	4.5 in	0.37 in	—	**22LU94**	—	—
12	2	4.5 in	4.5 in	0.37 in	**22LU93**	**22LU92**	—	—
SSF Series 430 Brushed Stainless Steel Wall Plates								
1	1	4.5 in	2.75 in	0.38 in	—	—	—	**6MK51**
1	1	4.5 in	2.75 in	0.69 in	—	—	—	**22LW33**
2	1	4.5 in	2.75 in	0.38 in	—	—	—	**6MK52**
2	1	4.5 in	2.75 in	0.69 in	—	—	—	**22LW34**
3	1	4.5 in	2.75 in	0.69 in	—	—	—	**22LW35**
4	1	4.5 in	2.75 in	0.69 in	—	—	—	**22LW36**
6	1	4.5 in	2.75 in	0.38 in	—	—	—	**22LW30**
6	1	4.5 in	2.75 in	0.69 in	—	—	—	**22LW37**
4	2	4.56 in	4.5 in	0.38 in	—	—	—	**22LW31**
9	2	4.56 in	4.5 in	0.38 in	—	—	—	**22LW32**

6MJ64

HUBBELL®
Hubbell Premise Wiring

66 Wiring Blocks

Terminate 22 AWG to 26 AWG solid conductors, or 20 AWG to 26 AWG stranded connectors.

Description	L (in.)	W (in.)	D (in.)	Rows	No. of Pairs	Pins per Row	Mfr. Model	Item No.
Split B Block	13.47 in	2.8 in	1.25 in	50	50	6	HPW66B350	**6MJ65**
B Block	2.8 in	3.9 in	1.2 in	12	6	6	HPW66B16	**6MJ64**
M Block	10 in	3.44 in	1.2 in	50	25	4	HPW66M125	**6MJ69**
Split M Block	10 in	3.44 in	1.2 in	50	50	4	HPW66M150	**6MJ70**
CAT5 Split M Block	10 in	3.4 in	1.25 in	50	50	4	HPW66M150C5	**6MJ71**

5ZNU7

5ZWD8

5ZVZ1

5ZVY6

5ZWA0

5ZWA6

5ZVZ7 5ZVZ4

PANDUIT

Voice/Data Mini-Com® Accessories

Description	No. of Ports	Mfr. Model	WHITE Item No.	OFF WHITE Item No.	ELECTRIC IVORY Item No.	BLUE Item No.	BLACK Item No.
Jacks							
HDMI	1	CMHDMI	5ZWE3	5ZWE1	5ZWE2	—	—
CAT6, RJ45	1	CJ688TP	5ZVX2	5ZVX4	5ZVX1	5ZVX0	5ZVU9
CAT5e, RJ45	1	CJ5E88T	5ZNU5	5ZNU7	5ZNU4	5ZNU3	5ZNU2
Blank Mini-Com Insert	0	CMB-X	5ZVZ2	5ZVZ0	5ZVZ1	—	5ZVZ3
Fiber Adapter Modules							
SC Singlemode Duplex	1	CMDSCZ	—	—	—	5ZWG3	—
LC Singlemode Duplex	1	CMDSLCZ	—	—	—	5ZWG0	—
LC 10Gig™ Multimode Duplex w/Zirconia Ceramic Split Sleeves	1	CMDSAQLCZ	—	—	—	—	5ZWF9 *
Couplers							
USB Coupler A-A	1	CMUSBAA	5ZWE0	5ZWD8	5ZWD9	—	—
F-Type Coax Coupler	1	CMF	5ZVY9	5ZVY7	5ZVY8	—	—
Cat 6, RJ45	1	CC688	—	—	—	—	5ZVY6
Surface Mount Boxes							
For Use With Pan-Way(R) LD3, LDPH3, LD5, LDPH5 Raceway	2	CBX2-AY	5ZWA2	5ZWA0	5ZWA1	—	—
For Use With Pan-Way(R) LD3, LDPH3, LD5, LDPH5 Raceway	4	CBX4-AY	5ZWA5	5ZWA3	5ZWA4	—	—
Module Frames							
Duplex	2	CF1062	5ZWA9	5ZWA7	5ZWA8	—	—
Duplex	4	CF1064	5ZWC2	5ZWC0	5ZWC1	—	—
Decorator	2	CFG2	5ZWC5	—	—	—	—
Decorator	4	CFG4	5ZWC8	—	—	—	—
Wall Plates							
Single Gang, Includes Labels	2	CFPE2	5ZVZ9	5ZVZ7	5ZVZ8	—	—
Single Gang, Includes Labels	4	CFPE4	5ZVZ6	5ZVZ4	5ZVZ5	—	—
Furniture, Includes Labels	4	CFFPL4	—	—	—	—	5ZWA6

** Color is aqua and black.*

13U577

13U599

13U611

13U642

14J393

Keystone Jacks and Wall Plates

MONOPRICE

Description	Color	Item No.
A/V Keystone Jacks		
110 Punch-Down		
Voice	White	13U650
Coupler		
3.5mm Stereo Audio	White	13U575
BNC	Ivory	13U576
F-Type	White	13U577
F-Type	Black	13U579
HDMI	Ivory	13U608
RCA (Green), Flush	Ivory	13U602
RCA (Red)	White	13U583
RCA (White)	White	13U585
RCA (White), Flush	White	13U599
RCA (Yellow)	White	13U584
USB 2.0 A	White	13U609
USB 3.0 A	White	13U611
Tool-Less		
Voice	White	13U649
Fiber Optic Keystone Jacks		
Coupler		
LC	White	38F918
SC	White	38F916

Cable Type	Termination Type	WHITE Item No.	BLUE Item No.	IVORY Item No.	BLACK Item No.	GREEN Item No.	ORANGE Item No.	RED Item No.	YELLOW Item No.
Category Keystone Jacks									
CAT5e	Tool-Less	13U612	13U615	13U616	13U617	—	—	—	—
CAT5e	Punch-Down	13U626	13U621	13U623	13U620	13U622	13U624	13U625	13U627
CAT5e	Coupler	13U628	—	—	14J357	—	—	—	—
CAT6	Tool-Less	13U634	13U630	13U632	13U629	13U631	13U636	13U633	13U635
CAT6	Punch-Down	K2466	K2466	13U640	13U637	13U639	13U641	13U642	13U644
CAT6	Coupler	13U646	—	—	13U645	—	—	—	—

Description	WHITE Item No.	IVORY Item No.
Blank Keystone Inserts		
Blank, Qty. 10	14J387	—
F-Type, Qty. 10	14J388	—
1-Gang Wall Plates		
1 Port	14J390	14J391
2 Port	14J392	14J393
3 Port	14J394	—
4 Port	14J396	14J397
6 Port	14J398	—
2-Gang Wall Plates		
2 Port	14J401	—
4 Port	14J403	—
8 Port	14J407	—
12 Port	14J409	—

3TY63

Xcelerator® Jacks—Universal Wired 110 Connection

HUBBELL®
Hubbell Premise Wiring

- Universal wiring for T568A or T568B
- For use with Hubbell wall plates
- Third-party component verified

Fast and easy to install and terminate. Compact, full-encasement housing protects connection elements and snaps into standard Hubbell® keystone opening. Termination towers are angled for easy lacing of wires into IDC contacts. Paired punchdowns have color-coded wiring labels.

Note: See page 347 for Wall Plates.

Cable Type	ELECTRIC IVORY Item No.	WHITE Item No.	GRAY Item No.	BLACK Item No.	ORANGE Item No.	TELCO IVORY Item No.	BLUE Item No.	GREEN Item No.	OFFICE WHITE Item No.	RED Item No.	YELLOW Item No.
Voice	5LV37	5LV38	5LV39	5LV40	5LV42	5LV43	22LU91	—	5LV41	—	—
CAT5e	5LV58	6MJ30	5LV59	5LV60	5LV62	5LV50	5LV63	6MJ31	5LV61	5LV64	5LV65
CAT6	3TY65	3TY72	3TY66	3TY63	3TY69	3TY71	3TY64	3TY67	3TY68	3TY70	3TY73

5ZDD5

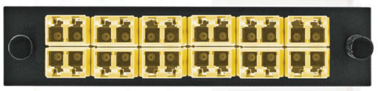
Fiber Optic Cable

General Cable

- ANSI/TIA/EIA 568B.3
- UL and C-UL Listed
- RoHS Compliant
- Operating temp.: -20° to 70°C
- 1000-ft. rolls

Type OFNP, CSA FT-6 cables feature black plenum-rated FEP jackets. Tight buffered fibers are easy to handle and strip for connection; sub-units are numbered for identification. Designed for intrabuilding and interbuilding high speed voice or data communications backbone.

Core Dim.	Attenuation	Fiber Count 6 Item No.	Fiber Count 12 Item No.
Tight Buffer SM	1.0 dB/km @ 1310 and 1560 Nanometers	**5ZDD5**	**5ZDD6**
62.5 µm MM	1.0 dB/km @ 1300 Nanometer	**5ZDE1**	—



49K811

49K817

Fiber Adapter Panels

HUBBELL® Hubbell Premise Wiring

16-ga. cold-rolled steel adapter panels feature a durable black powder-coated finish. Operating temp. range: 0° to 167°F.

Description	No. of Ports	Color	Item No.
LC Duplex Multimode, Phosphor Bronze	12	Beige	**22LU56**
LC Duplex Singlemode/Multimode, Zirconia Ceramic	12	Blue	**22LU58**
LC Duplex Singlemode/Multimode, Zirconia Ceramic	24	Yellow	**49K811**
SC Duplex Multimode, Phosphor Bronze	6	Aqua	**49K814**
SC Duplex Multimode, Phosphor Bronze	6	Beige	**22LU59**
SC Duplex Multimode, Phosphor Bronze	12	Aqua	**49K815**
SC Duplex Multimode, Phosphor Bronze	12	Beige	**49K817**
SC Duplex Multimode, Phosphor Bronze	12	Blue	**49K816**
SC Duplex Singlemode/Multimode, Zirconia Ceramic	6	Blue	**22LU61**
SC Duplex Singlemode/Multimode, Zirconia Ceramic	6	Yellow	**22LU62**
SC Duplex Singlemode/Multimode, Zirconia Ceramic	12	Blue	**49K819**
SC Duplex Singlemode/Multimode, Zirconia Ceramic	12	Yellow	**49K820**
ST-Style Simplex, Zirconia Ceramic	6	Black	**22LU63**
ST-Style Simplex, Zirconia Ceramic	8	Yellow	**49K821**

13U468

13U426

MONOPRICE

Fiber Optic Patch Cables

- Clad dimension: 125µm
- Attenuation and bandwidth: 10 GB

Fiber Optic Connector Type	Core Dim.	Jacket Color	LENGTH 1m Item No.	2m Item No.	3m Item No.	5m Item No.	10m Item No.
Patch Cables							
LC/LC	9	Yellow	**13U509**	**13U510**	**13U511**	**13U498**	**13U512**
	50	Orange	**13U460**	**13U461**	—	—	—
	50	Aqua	**13U463**	**13U464**	**13U465**	**13U466**	**13U467**
	62.5	Orange	**13U421**	**13U422**	—	—	—
LC/SC	9	Yellow	**13U515**	—	—	**13U504**	**13U505**
	50	Aqua	**13U468**	**13U469**	—	—	—
	62.5	Orange	**13U433**	**13U434**	**13U435**	**13U436**	**13U437**
LC/ST	9	Yellow	—	—	—	**13U517**	—
	50	Aqua	**13U472**	—	—	—	—
	62.5	Orange	**13U427**	**13U428**	**13U429**	**13U430**	**13U431**
SC/SC	9	Yellow	**13U519**	**13U501**	—	—	—
	62.5	Orange	**14C133**	—	—	—	—
SC/ST	9	Yellow	**13U520**	—	—	—	—
ST/SC	62.5	Orange	**14C128**	**14C129**	**14C130**	—	—
ST/ST	9	Yellow	**13U521**	—	—	—	—
	50	Aqua	**13U487**	**13U488**	**13U489**	—	—
	62.5	Orange	**14C123**	**14C124**	—	—	**14C127**

Fiber Optic Connector Type	Core Dim.	Jacket Color	LENGTH 15m Item No.	20m Item No.	30m Item No.	40m Item No.
Extended Length Patch Cables						
LC/LC	50	Aqua	**13U492**	**13U493**	**13U494**	**13U496**
LC/LC	62.5	Orange	**13U426**	—	—	—

PROclick® Fiber Pre-Polished Connectors

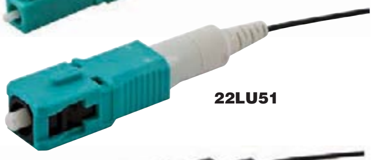
HUBBELL® Hubbell Premise Wiring

- 900/250 um

Provide a low-cost field termination solution. Eliminate adhesives and polishing and utilizes a fiber clamping method. Perform well under extreme temperatures.

Description	Color	Pkg. Qty.	CONNECTOR TYPE LC Mfr. Model	LC Item No.	SC Mfr. Model	SC Item No.	ST Mfr. Model	ST Item No.
50/125 10G MM-OM3 900/250 µM	Aqua	12	FCLC900K50GM12	**22LU48**	FCSC900K50GM12	**22LU51**	—	—
50/125 MM-OM2 900/250 µM	Black	12	FCLC900K50M12	**49K801**	FCSC900K50M12	**49K804**	—	—
62.5/125 MM-OM1 900/250 µM	Beige	12	FCLC900K62M12	**49K802**	FCSC900K62M12	**22LU52**	—	—
9/125 UPC SM 900/250 µM	Blue	12	FCLC900KSM12	**22LU49**	FCSC900KSM12	**22LU53**	—	—
Multimode, 50µm	Black	12	—	—	—	—	FCST50M12	**49K806**
Multimode, 50µm, 10G	Black	12	—	—	—	—	FCST50GM12	**49K805**
Multimode, 62µm	Beige	12	—	—	—	—	FCST62M12	**22LU54**
Singlemode	Blue	12	—	—	—	—	FCSTSM12	**22LU55**

22LU48



22LU51

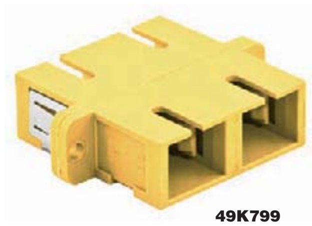
49K806

Fiber Optic Adapters

HUBBELL® Hubbell Premise Wiring

Feature 500 cycle mating durability. Designed with singlemode or multimode zirconia sleeves. Operating temp. range: 0° to 167°F.

Fiber Optic Connector Type	No. of Ports	Features	Mfr. Model	AQUA Item No.	AQUA Pkg. Qty.	BLUE Item No.	BLUE Pkg. Qty.	BEIGE Item No.	BEIGE Pkg. Qty.	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
LC	2	Zirconia Ceramic Sleeves	FALCDSS6	**49K786**	6	**49K787**	6	**49K788**	6	**49K789**	6	**49K790**	6
SC	2	Zirconia Ceramic Sleeves	FASCDSS6	**49K795**	6	**49K796**	6	—	—	**49K798**	6	**49K799**	6
	2	Zirconia Ceramic Sleeves	FANSCDSS	—	—	—	—	**49K797**	6	—	—	—	—



49K799

14X126

38F913

MONOPRICE

Stereo Audio Cables

Designed with PVC jacket material. 3.5mm is a common headphone jack size on most MP3 players.

Length	Color	Features	Item No.
Heavy-Duty, Stereo Audio, 3.5mm Stereo TRS Female/2-RCA Male			
6 in	Black	—	14X127
Heavy-Duty, Stereo Audio, 3.5mm Stereo TRS Male/2-RCA Female			
7 in	Black	—	14X126
Heavy-Duty, Stereo Audio, 3.5mm Stereo TRS Male/2-RCA Male			
1.5 ft	Black	—	14X118
3 ft	Black	—	14X119
6 ft	Black	—	14X120
10 ft	Black	—	14X121
15 ft	Black	—	14X122
25 ft	Black	—	14X123
35 ft	Black	—	14X124
Heavy-Duty, Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Female			
10 ft	Black	—	14X109
15 ft	Black	—	14X110
20 ft	Black	—	14X111
25 ft	Black	—	14X112
35 ft	Black	—	14X113
100 ft	Black	—	14X116
Heavy-Duty, Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Male			
1.5 ft	Black	—	14X096
3 ft	Black	—	14X097
6 ft	Black	—	14X098
15 ft	Black	—	38F905
25 ft	Black	—	14X102
35 ft	Black	—	14X103
50 ft	Black	—	14X104
100 ft	Black	—	14X106
Mini-Phone Cable, Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Male			
3 ft	Black	—	63YC05
Stereo Audio, 3.5mm Stereo TRS Male/2-RCA Male			
3 ft	White	—	38F913
6 ft	White	—	38F914
10 ft	White	—	38F915
Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Female			
6 ft	Black	—	38F908
12 ft	Black	—	38F909
25 ft	Black	—	38F910
50 ft	Black	—	38F911
75 ft	Black	—	38F912
Stereo Audio, 3.5mm Stereo TRS Male/3.5mm Stereo TRS Male			
6 ft	White	—	38F898
12 ft	Black	—	38F894
25 ft	Black	—	38F895
50 ft	Black	—	38F896

MONOPRICE

5RFP6

RCA Patch Cables

For use in audio and video applications. Feature gold-plated molded connectors and aluminum foil shielding. RCA male-to-male connections. Black PVC jacket.

Length	Conductor Size	Item No.
2-RCA Male/2-RCA Male		
3 ft	22 AWG	14X095
6 ft	22 AWG	14X090
12 ft	22 AWG	14X091
25 ft	22 AWG	14X092
35 ft	22 AWG	14X093
50 ft	22 AWG	14X094
Component, RG-59/U, 3 Cables		
1.5 ft	22 AWG	5RFT7
6 ft	22 AWG	5RFT9
50 ft	22 AWG	5RFV5
100 ft	22 AWG	5RFV6
Component, RG-59/U, 5 Cables		
1.5 ft	22, 27	5RFP6
3 ft	22, 27	5RFP7
6 ft	22, 27	5RFP8
25 ft	22, 27	5RFR2
100 ft	22, 27	5RFR5
Component, RG-6, In Wall Rated, 5 Cables		
6 ft	18, 27	5RFR8
12 ft	18, 27	5RFT0
35 ft	18, 27	5RFT3
75 ft	18, 27	5RFT5
100 ft	18, 27	5RFT6
Composite, RG-59/U, Video Dubbing Composite Cable, Super, Low-Loss Shielded, 3 Cables		
1.5 ft	—	5RFY3
3 ft	—	5RFY4
6 ft	—	5RFY5
15 ft	—	5RFY8
25 ft	—	5RFY9
50 ft	—	5RFZ0
RCA Male/RCA Male		
3 ft	20 AWG	14X054
3 ft	18 AWG	14X050
6 ft	20 AWG	14X046
6 ft	18 AWG	14X049
10 ft	18 AWG	14X060
15 ft	18 AWG	14X061
25 ft	20 AWG	14X048
25 ft	18 AWG	14X052
35 ft	18 AWG	14X056
50 ft	20 AWG	14X055
50 ft	18 AWG	14X053
75 ft	18 AWG	14X057
100 ft	18 AWG	14X058

MONOPRICE

Video Converters

Feature plug and play installation.

Features	Connection	Item No.
Converts VGA and R/L Stereo Audio to HDMI Converter with DC Adapter	HDMI, VGA	14C152
DVI to HDMI Converter	DVI, HDMI	14C155

5YLW8

5YLX2

HUBBELL®
Wiring Device-Kellems

Video Wall Plates

- Box mount
- 1-gang

5YLX7

No. of Ports	Cable Type	IVORY Item No.	WHITE Item No.	LIGHT ALMOND Item No.
1	F Type Coupler	5YLW8	5YLW9	5YLX1
2	CAT5e	5YLX2	—	5YLX5
2	CAT5e, F	—	5YLX3	—
1	HDMI	5YLX6	5YLX7	5YLX9

14C379

14J380

38F880

MONOPRICE

Audio/Video Wall Plates

Cable Type	No. of Gangs	No. of Ports	Color	Item No.
3-Gang, 7.1 Stereo	3	16	White	14J376
3Pin, XLR(M)	1	2	Zinc Alloy	14J379
Banana Post	1	2	White	14J362
Banana Post	1	8	White	14J370
Cable/Recessed	1	—	Black	38F873
Cable/Recessed	1	—	Brown	38F874
Cable/Recessed	1	—	Ivory	38F875
Cable/Recessed	1	—	White	38F877
Cable/Recessed	2	—	Black	38F878
Cable/Recessed	2	—	Ivory	38F880
Cable/Recessed	2	—	Light Almond	38F881
Cable/Recessed	2	—	White	38F882
Cable/Recessed	3	—	Black	38F883
Cable/Recessed	3	—	White	38F885
CAT5, F	—	—	White	14C379
HDMI 1.3 to 2 (Pair) Cat5e/6	—	1	White	6CZG8
HDMI with Extension	1	1	White	14J380
HDMI with Extension	1	2	White	14J384
Low Voltage with Duplex	1	—	White	38F866
Low Voltage with Duplex and Surge Suppressor	1	—	White	38F867
Recessed	—	—	White	38F869
Recessed	2	—	White	38F872

14C361

14C246

14C235

14C343

14C215

6CZE2

14C367

14C356

Audio and Video Adapters

MONOPRICE

Connection A to Connection B	Color	Item No.
Audio/Video Adapters		
BNC Female to BNC Female	Gold	**6CZR8**
BNC Female to RCA Male	Gold	**6CZP8**
BNC Male to F-Type Female	Gold	**14C358**
BNC Male to RCA Female	Gold	**6CZP9**
BNC Male to RCA Male	Gold	**6CZR0**
F-Type Female to F-Type Male	Gold	**14C363**
HDMI Female to (2) 3.5 mm Stereo Females	Black	**55FA24**
Mini DisplayPort Male to DisplayPort Female	White	**14C361**
RCA Female to F-Type Female	Gold	**6CZR4**
RCA Male to F-Type Female	Gold	**6CZR5**
Audio Adapters		
(2) 3.5 mm Stereo Males to 3.5 mm Stereo Female	Black	**38F907**
(2) RCA Females to (2) RCA Females	Black	**14C348**
¼ in Mono Female to ¼ in Mono Female	Black	**14C341**
¼ in Mono Male to 3.5 mm Mono Female	Gold	**14C275**
¼ in Mono Male to 3.5 mm Stereo Female	Black	**14C246**
¼ in Mono Male to 3.5 mm Stereo Female	Gold	**14C276**
¼ in Mono Male to RCA Female	Black	**14C258**
¼ in Mono Male to RCA Female	Gold	**14C285**
¼ in Stereo Female to ¼ in Stereo Female	Gold	**14C222**
¼ in Stereo Male to 3.5 mm Stereo Female	Black	**14C248**
¼ in Stereo Male to 3.5 mm Stereo Female	Gold	**14C278**
¼ in Stereo Male to RCA Female	Black	**14C259**
2.5 mm Mono Male to 3.5 mm Mono Female	Black	**14C230**
2.5 mm Stereo Male to 3.5 mm Stereo Female	Black	**14C233**
3.5 mm Mono Male to 3.5 mm Stereo Female	Black	**14C237**
3.5 mm Mono Male to 3.5 mm Stereo Female	Gold	**14C267**
3.5 mm Mono Male to RCA Female	Black	**14C255**
3.5 mm Stereo Female to 3.5 mm Stereo Female	Black	**14C340**
3.5 mm Stereo Female to 3.5 mm Stereo Female	Gold	**14C294**
3.5 mm Stereo Male to ¼ in Stereo Female	Black	**14C244**
3.5 mm Stereo Male to ¼ in Stereo Female	Gold	**14C274**
3.5 mm Stereo Male to 2.5 mm Stereo Female	Black	**14C235**
3.5 mm Stereo Male to 3.5 mm Mono Female	Gold	**14C269**
3.5 mm Stereo Male to RCA Female	Black	**14C256**
RCA Female to RCA Female	Black	**14C345**
RCA Female to RCA Female	Gold	**14C288**

Connection A to Connection B	Color	Item No.
RCA Male to ¼ in Mono Female	Black	**14C352**
RCA Male to 3.5 mm Stereo Female	Black	**14C351**
RCA Male to RCA Female	Black	**14C343**
RCA Male to RCA Male	Black	**14C344**
Toslink Female to Mini Toslink Male	Black	**14C215**
Audio Splitters		
¼ in Mono Male to (2) RCA Females	Black	**14C302**
¼ in Mono Male to (2) RCA Females	Black	**14C335**
¼ in Stereo Male to (2) ¼ in Stereo Females	Black	**14C331**
¼ in Stereo Male to (2) RCA Females	Black	**14C303**
3.5 mm Stereo Male to (2) 3.5 mm Stereo Females	Black	**14X117**
3.5 mm Stereo Male to (2) 3.5 mm Stereo Females	Black	**38F906**
3.5 mm Stereo Male to (2) 3.5 mm Stereo Females	Black	**14C314**
3.5 mm Stereo Male to (2) RCA Females	Black	**14C298**
RCA Female to (2) RCA Males	Black	**14C229**
RCA Male to (2) RCA Females	Black	**14C295**
Toslink Female to (2) Toslink Females	Black	**14C212**
HDMI Adapters		
HDMI Female to HDMI Female	Black	**6CZD9**
HDMI Female to HDMI Female	Black	**6CZE0**
HDMI Female to HDMI Female	Black	**6CZE1**
HDMI Male to HDMI Female	Black	**6CZE2**
HDMI Male to HDMI Female	Black	**6CZE3**
HDMI Male to HDMI Female	Black	**6CZE4**
HDMI Male to HDMI Female	Black	**6CZE5**
HDMI Male to HDMI Female	Black	**5RFG3**
HDMI Male to HDMI Female	Black	**14C360**
HDMI Male to HDMI Female	Black	**14C362**
HDMI Male to HDMI Female	Black	**14C368**
HDMI Male to Mini HDMI Female	Black	**14C357**
Micro HDMI Male to HDMI Female	Black	**14C364**
Micro HDMI Male to HDMI Female	Black	**14C367**
HDMI Splitters		
HDMI Male to (2) HDMI Females	Black	**14C186**
Video Adapters		
DVI Female to DVI Female	Gray	**14C356**
DVI-I Male to 3-RCA Female	Black	**14C355**
VGA Male to 4-Pin S-Video and RCA Females	Black	**14C213**

6CZL2

6CZL3

6CZL4

6CZC3

MONOPRICE

Computer Cable Adapters

Connector Type	Color	Item No.
Displayport Male/DVI-D Female	Black	**6CZL2**
Displayport Male/HDMI Female	Black	**6CZL3**
Displayport Male/VGA Female	Black	**6CZL4**
DVI-D Single Link Male/ HDMI Female	Black	**6CZC3**
DVI-I Dual Link Male/VGA(HD15) Female	Black	**6CZC6**
HDMI Female/DVI-D Single Female	Black	**6CZC4**
HDMI Male/DVI-D Female	Black	**6CZC5**
M1-A(Plug and Display) Male to VGA (HD15) Female	Black	**6CZD6**
M1-D-(Plug and Display) Male/HDMI Female	Black	**6CZD1**
Mini Displayport/DVI	White	**6CZK9**
Mini DVI/HDMI	White	**6CZD4**
Mini DVI/VGA	White	**6CZD5**
VGA(HD15) Male to DVI-A Female	Black	**6CZC7**

6CZK9

6CZD5

5RFE5

5RFJ3

14X019

HDMI Cables

MONOPRICE

Suitable for use with audiovisual equipment (TV, computers, Blu-ray players, receivers, and cam corders). Gold connectors, compatible with all versions of HDMI, and can support 3D. HDMI-HDMI cable resolution from 480i to 4K x 2K, HDMI-DVI cable resolution 480i-1080p. UL Listed and CSA Certified. RoHS Compliant.

Length	Conductor Size	Color	Item No.
Mini-HDMI Male/HDMI Male, Plastic Jacket, Copper Conductors, High Speed			
6 ft	30 AWG	Black	**458R47**
HDMI Male/HDMI Male, Thermoplastic Elastomer Jacket, Copper Conductors, High Speed, Ultra Slim			
3 ft	36 AWG	Black	**20PV82**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Standard Speed			
12 ft	28 AWG	Black	**5RFG1**
15 ft	28 AWG	Black	**5RFG2**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed with Ethernet			
3 ft	28 AWG	Black	**5RFE1**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed			
1.5 ft	28 AWG	Black	**5YMG4**
1.5 ft	28 AWG	Blue	**5YMG6**
1.5 ft	28 AWG	Purple	**5YMG9**
3 ft	28 AWG	Blue	**5YMH5**
3 ft	28 AWG	Green	**5YMH4**
3 ft	28 AWG	Orange	**5RFD6**
3 ft	28 AWG	Purple	**5RFD7**
3 ft	28 AWG	White	**5RFD9**
4 ft	28 AWG	Black	**5RFE2**
5 ft	28 AWG	Black	**5RFE3**
6 ft	28 AWG	Black	**5RFE5**
6 ft	28 AWG	Blue	**5RFE6**
6 ft	28 AWG	Green	**5RFE7**
6 ft	28 AWG	Orange	**5RFE8**
6 ft	28 AWG	Purple	**5RFE4**
6 ft	28 AWG	Red	**5RFE9**
6 ft	28 AWG	White	**5RFF0**
6 ft	28 AWG	Yellow	**5RFF1**
8 ft	28 AWG	Black	**5RFF2**
10 ft	28 AWG	Black	**5RFF3**
10 ft	28 AWG	Blue	**5RFF4**
10 ft	28 AWG	Red	**5RFF8**
10 ft	28 AWG	White	**5RFF9**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Flat, Standard Speed			
3 ft	24 AWG	Black	**5YME3**
25 ft	24 AWG	Black	**5YME8**
30 ft	24 AWG	Black	**5YME9**
35 ft	24 AWG	Black	**5YMF0**
HDMI Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Flat, High Speed			
6 ft	24 AWG	Black	**5YME4**
10 ft	24 AWG	Black	**5YME5**
15 ft	24 AWG	Black	**5YME6**
HDMI Male/HDMI Male, PVC Jacket, Standard Speed			
75 ft	24 AWG	Black	**61KX03**
100 ft	24 AWG	Black	**61KX07**

Length	Conductor Size	Color	Item No.	
HDMI Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, High Speed, Slim, RedMere Technology				
15 ft	28 AWG	Black	**38F856**	
40 ft	28 AWG	Black	**38F858**	
60 ft	28 AWG	Black	**38F860**	
HDMI Male/HDMI Male, PVC Jacket, High Speed				
3 ft	28 AWG	Black	**61KX04**	
6 ft	28 AWG	Black	**61KX05**	
30 ft	28 AWG	Black	**61KX06**	
HDMI Male/HDMI Male, PVC Jacket, Copper Conductors, High Speed				
2 ft	28 AWG	Black	**52CR61**	
3 ft	28 AWG	Black	**52CR62**	
6 ft	28 AWG	Black	**52CR63**	
10 ft	28 AWG	Black	**52CR64**	
16 ft	28 AWG	Black	**52CR65**	
HDMI Male/HDMI Male, Nylon Mesh Jacket, Tin-Plated Copper Conductors, Standard Speed				
1 ft	24 AWG	Black	**5YMC6**	
HDMI Male/HDMI Male, Nylon Mesh Jacket, Tin-Plated Copper Conductors, High Speed				
3 ft	24 AWG	Black	**5YMC8**	
10 ft	24 AWG	Black	**5YMD6**	
10 ft	24 AWG	White	**5YMD7**	
12 ft	24 AWG	Black	**5YMD9**	
15 ft	24 AWG	Black	**5YME0**	
HDMI Female/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed				
3 ft	24 AWG	Black	**5RFG4**	
6 ft	24 AWG	Black	**5RFG5**	
10 ft	24 AWG	Black	**5RFG6**	
HDMI, Polymer Jacket, High Speed				
75 ft		Black	**61KM71**	
DVI-D Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, Standard Speed				
25 ft	26 AWG	Black	**5RFH9**	
50 ft	22 AWG	Black	**5RFH1**	
DVI-D Male/HDMI Male, PVC Jacket, Tin-Plated Copper Conductors, High Speed				
25 ft	22 AWG	Black	**5RFG9**	
DVI-D Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, Standard Speed				
10 ft	28 AWG	Black	**5RFJ2**	†
15 ft	28 AWG	Black	**5RFJ3**	†
35 ft	24 AWG	Black	**5RFH8**	
DVI-D Male/HDMI Male, PVC Jacket, Nonplated Copper Conductors, High Speed				
3 ft	28 AWG	Black	**5RFJ0**	†
3 ft	24 AWG	Black	**5RFH3**	‡
6 ft	28 AWG	Black	**5RFJ1**	†
6 ft	24 AWG	Black	**5RFH4**	‡
10 ft	24 AWG	Black	**5RFH5**	‡
15 ft	24 AWG	Black	**5RFH6**	‡

† Ferrite cores. ‡ Net jacket.

5RGE3

Video Cables

MONOPRICE

Cable Length	Gauge	Item No.
CPU Cord/DVI		
10 ft	—	**14X019**
15 ft	—	**14X020**
CPU Cord/VGA		
3 ft	—	**14X015**
3 ft	—	**14X021**
6 ft	—	**14X016**
6 ft	—	**14X022**
10 ft	—	**14X023**
15 ft	—	**14X018**
15 ft	—	**14X024**
DisplayPort to DVI-D Single Link Male		
3 ft	28 AWG	**5RGJ3**
6 ft	28 AWG	**5RGJ4**
DisplayPort to Mini DisplayPort Male		
6 ft	32 AWG	**5RGH6**
15 ft	32 AWG	**5RGH8**
DVI-D Dual-Link Male to DVI-D Dual Link Female		
6 ft	28 AWG	**5RFK5**
DVI-D Dual-Link Male to DVI-D Dual Link Male		
3 ft	28 AWG	**5RFK1**
6 ft	24 AWG	**5RFJ5**
6 ft	28 AWG	**5RFK2**
10 ft	28 AWG	**5RFK3**
15 ft	24 AWG	**5RFJ7**
15 ft	28 AWG	**5RFK4**
25 ft	24 AWG	**5RFJ8**
35 ft	24 AWG	**5RFJ9**
50 ft	24 AWG	**5RFK0**
HDMI to M1-D(P+D) Male		
6 ft	28 AWG	**5RFN6**
Mini DisplayPort Male to Male		
3 ft	32 AWG	**5RGG1**
6 ft	32 AWG	**5RGG2**
15 ft	32 AWG	**5RGG4**
Mini DisplayPort to DVI-D Single Link Male		
3 ft	32 AWG	**5RGH1**
6 ft	32 AWG	**5RGH2**
Mini-HDMI (Type C) to HDMI (Type A)		
3 ft	30 AWG	**5RGJ5**
6 ft	30 AWG	**5RGJ6**

Cable Length	Gauge	Item No.
SVGA (HD15) and 3.5mm Stereo Audio Male to Male		
1.5 ft	28 AWG	**5RGE3**
3 ft	28 AWG	**5RGE4**
6 ft	28 AWG	**5RGE5**
10 ft	28 AWG	**5RGE6**
15 ft	28 AWG	**5RGE7**
25 ft	28 AWG	**5RGE8**
35 ft	28 AWG	**5RGE9**
50 ft	28 AWG	**5RGF0**
100 ft	28 AWG	**5RGF2**
SVGA (HD15) Male to Female		
3 ft	28 AWG	**5RGD5**
6 ft	28 AWG	**5RGD6**
10 ft	28 AWG	**5RGD7**
15 ft	28 AWG	**5RGD8**
25 ft	28 AWG	**5RGD9**
35 ft	28 AWG	**5RGE0**
50 ft	28 AWG	**5RGE1**
SVGA (HD15) Male to Male		
1.5 ft	28 AWG	**5RGC5**
3 ft	28 AWG	**5RGC6**
6 ft	28 AWG	**5RGC7**
10 ft	28 AWG	**5RGC8**
15 ft	28 AWG	**5RGC9**
25 ft	28 AWG	**5RGD0**
35 ft	28 AWG	**5RGD1**
50 ft	28 AWG	**5RGD2**
75 ft	28 AWG	**5RGD3**
100 ft	28 AWG	**5RGD4**
SVGA Cable		
1.5 ft	30 to 32AWG	**14X036**
3 ft	30 to 32AWG	**14X037**
6 ft	30 to 32AWG	**14X031**
6 ft	30 to 32AWG	**14X038**
10 ft	30 to 32AWG	**14X032**
10 ft	30 to 32AWG	**14X039**
15 ft	30 to 32AWG	**14X044**
15 ft	30 to 32AWG	**14X045**
25 ft	30 to 32AWG	**14X033**
25 ft	30 to 32AWG	**14X040**
35 ft	30 to 32AWG	**14X034**
50 ft	30 to 32AWG	**14X035**
50 ft	30 to 32AWG	**14X042**
USB-A to M1-D(P+D), USB-B Male, VGA(HD15)		
6 ft	28 AWG	**5RFP2**

5XFY9

5XFY6

5XFX1

5XFX9

USB Cables

MONOPRICE

Connector Type	USB Spec.	Color	Features	1 ½ FT. Item No.	3 FT. Item No.	6 FT. Item No.	10 FT. Item No.	15 FT. Item No.
USB Cable								
A Male to 5 Pin B Micro Male	2.0	Black	Ferrite Core, Gold Plated	**5XFY0**	**5XFY2**	**5XFY4**	**5XFY6**	**5XFY8**
A Male to 5 Pin B Micro Male	2.0	Black	Silver Plated	**5XFX9**	**5XFY1**	**5XFY3**	**5XFY5**	**5XFY7**
A Male to 5 Pin B Mini Male	2.0	Black	Ferrite Core, Gold Plated	**5XFW3**	**5XFW5**	**5XFW8**	**5XFX0**	**5XFX2**
A Male to 5 Pin B Mini Male	2.0	Black	Silver Plated	—	**5XFW4**	**5XFW6**	**5XFW9**	**5XFX1**
A Male to 5 Pin B Mini Male	2.0	Black	The Cable is Shielded Using Braid and Foil Shields and Includes a Single Ferrite Core	—	—	**5XFW7**	—	—
A Male to A Male	2.0	Black	Gold Plated	**5XFZ0**	**5XFZ1**	—	**5XFZ5**	**5XFZ7**
A Male to B Male	2.0	Black	Gold Plated	**5XFV2**	**5XFV3**	**5XFV4**	**5XFV7**	**5XFW0**
Extension USB Cable								
A Male to A Female	2.0	Black	Gold Plated	**5XGA2**	**5XGA4**	**5XGA6**	**5XGA8**	**5XGC0**

5XGC4

Connector Type	USB Spec.	Features	Cable Length	Color	Item No.
Miscellaneous Lengths and Specialty Cables					
A Male to A Female	2.0	Active Extension	16 ft	Black	**13U534**
A Male to A Female	2.0	Active Extension	32 ft	Black	**13U535**
A Male to A Female	1.1	Extender Over Cat5e/6 Connection up to 6 45⁄64 in, Silver Plated	6 45⁄64 in	Black	**5XGC4**
A Male to A Male	2.0	Gold Plated	6 ft	Black	**5XFZ3**
A Male to A Mini Male	2.0	Gold Plated	2 ½ ft	Black	**5XFY9**
A Male to B Male	2.0	Active Cable	33 ft	Black	**13U532**
A Male to B Male	2.0	Active Cable	49 ft	Black	**13U533**

49AJ70 55FA15 55FA10 55FA05

MobileSpec MONOPRICE TRIPP-LITE

USB Chargers

Ports	Brand	Item No.
12V/DC USB Charger		
(1) 2.4 Amp USB/(1) 1 Amp USB ports	Mobilespec	55FA01
(1) 2.4 Amp USB/(1) 3.0 Amps USB-C ports	Mobilespec	55FA09
(1) 2.4 Amp USB/(2) 12V/DC Ports	Mobilespec	55FC57
(1) 2.4 Amp USB port	Monoprice	49AJ70
(1) 3.0 Amp USB/(1) 2.4 Amp USB/(1) 2.4 Amps USB-C ports	Mobilespec	55FA10
(4) 2.4 Amp USB ports	Mobilespec	450X45
Charge and Sync Cable		
(1) 2.4 Amp USB port/6 ft cable Micro Connector	Mobilespec	55FA15
USB Charger with Mono Bluetooth® Earbud		
(1) 2.1 Amp USB port	Mobilespec	55FA04
USB Wall Outlet Charger		
(1) 2.5 Amp USB port	Tripp Lite	490X01
(2) 2.4 Amp USB ports	Mobilespec	55FA05

420C73 55VT10 55FA14

AbilityOne PROGRAM, CAT, EGO POWER+ SYSTEM, Lynktec, Milwaukee, MobileSpec

Power Banks & External Batteries

Capacity	Number of Output Connectors	Recharge Time	Input Connector	Output Connection Type	Item No.	
Ability One						
11,000 mAh	2	3 hr	—	Female USB Type A	56LF39	
Cat						
10,000 mAh	1	10 hr	Micro USB	Female USB Type A	420C73	
Ego						
1.2 Ah	2	1 hr	Micro USB	Female USB Type A	55JG50	
Lynktec						
5,300 mAh	1	2.5 hr	Micro USB	Female USB Type A	52HA16	
8,000 mAh	1	4 hr	Micro USB	Female USB Type A	52HA17	
Milwaukee						
2,000 mAh	1	2 hr	Micro USB	Female USB Type A	55VT10	
	1	2 hr	Micro USB	Female USB Type A	55VT11	*
Mobilespec						
2,600 mAh	1	4 hr	AC Prong	Female USB Type A	55FA12	
10,000 mAh	2	5.5 hr	Female USB Type A	Female Micro USB, USB Type C	55FA14	

**Kit includes a REDLITHIUM™ USB Battery, USB Rechargeable Power Source and Charger, 2 FT Heavy Duty Micro-USB Cord*

USB Tester and Data Masker

Dual output for charging two USB devices off of one USB 3.0 port; One port is a specially designed masked port to charge your phone or tablet without any data being transferred. Built-in Smart Chip for Intelligent Charging that allows it to determine the safest maximum current your PD can accept.

Connector Type	Dim.	Item No.
USB 2.0 or 3.0	2.7 in L x 1 in W x 4.7 in H	55EP46

488H50 55FA44 450X55 450X71 55FA29

CAT MobileSpec

Charger/Sync Cables

Description	Cable Length	Color	Item No.
Cat			
Lightning® to USB	10 ft	Black	488H50
Micro to USB	10 ft	Black	488H51
USB-C to USB	10 ft	Black	783AH8
Mobilespec			
Lightning® to USB	3 ½ in	White	55FA28
Lightning® to USB	3 ft	Black	55FA43
Lightning® to USB	3 ft	White	55FA44
Lightning® to USB-C	6 ft	White	55FA58
Micro to USB	6 ft	Black	450X55
Mini, Micro, Samsung®, PSP® and Nintendo® to USB	3 ft	Black	450X71
USB-C to USB	3 ½ in	Black	55FA29
USB-C to USB	4 ft	Camo	55FA96
USB-C to USB	6 ft	Black	55FA49

45UC03 45UC18 45UC06 499F81 499F82

Device Charging Stations

Stations provide a hub for simultaneously recharging multiple cell phones or mobile devices. They're typically used in meeting rooms, waiting areas of airports and medical facilities, common areas of schools and multiunit residences, conference centers, and public libraries.

Charging Cord Configuration	Charges Up To	Item No.
Wall		
(2) 9 in Micro USB, (3) 9 in Lightning, (3) 9 in Type C cables	8 Devices	45UC03
Pedestal		
(2) 9 in Micro USB, (3) 9 in Lightning, (3) 9 in Type C cables	8 Devices	45UC06
Desktop		
(2) 9 in Micro USB, (3) 9 in Lightning, (3) 9 in Type C cables	8 Devices	45UC18
Charging Locker		
(4) 12 in Micro USB, (6) 12 in Lightning, (6) 12 in Type C cables	—	499F81
(4) 12 in Micro USB, (6) 12 in Lightning, (6) 12 in Type C cables	—	499F82

5LJ29

12V423

2HTJ8

2HTJ9

54DF41

54DF42

54DF44

Network Test Tools

Description	Mfr. Model	Item No.
IDEAL		
LinkMaster(TM) Tester, Checks for shorts, miswires, reversals, and split pairs	62-200	**5LJ29**
LanXPLORER PRO Tester, Copper/fiber/wireless network analyzer with in-Line RJ-45 allows monitoring of network traffic between any two points in the network to diagnose Ethernet, identifies top 10 bandwidth consuming, identifies source of network IP conflicts wiremap and PoE /PoE+ load tests, Netmap a scans entire to identify new or removed devices, or changes in configuration. Stores 5000 test reports, compatible with IDEAL AnyWARE iOS/Android app for wireless report transfers, Touch Screen, VoIP Monitor, PoE/PoE+ Inline Current Test, PC Diagnostics, Inline LAN Testing, Loopback Mode, Endpoint LAN Testing	R150001	**12V423**
Nylon Carrying Case For Use With Mfr. No. R153000, R151000, R151002	151054	**29NV60**
NiMH For Use With Mfr. No. R153000, R151000, R151002	151053	**29NV61**
Battery Adapter for Operation with AA Batteries, For Use With Mfr. No. R153000, R151000, R151002	151052	**29NV62**
AC Power Adapter, For Use With Mfr. No. R153000, R151000, R151002	151051	**29NV63**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, CAT 5E	150055	**29NV64**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, LC-LC Multimode Jumper	150056	**29NV65**
Patch Cable, For Use With Mfr. No. R153000, R151000, R151002, LC-LC Single Mode Jumper	150057	**29NV66**
Fluke Networks		
CableIQ™ Advanced Qualification Kit, Cable Tester Kit, Qualifies Voice 10/100BASE-T, VoIP or Gig, Troubleshoots Cabling Performance, Generates Printable Reports, Tones and Traces Cable	CIQ-KIT	**2HTJ8**
CableIQ™ Advanced Qualification Tester, Cable Tester, Qualifies Voice 10/100BASE-T, VoIP or Gig, Troubleshoots Cabling Performance, Generates Printable Reports	CIQ-100	**2HTJ9**
1 Versiv Mainframe & Remote, (2) DSX-8000 CableAnalyzer modules, (2) CertiFiber Quad OLTS modules, OptiFiber Quad OTDR module, Set of Cat 8/Class I Permanent Link Adapters, Set of Cat 8/Class 1 Channel Adapters, (2) Headsets, (2) HandStraps, (2) Shoulder Straps, Hard sided Carry Case, USB Interface Cable, Versiv Open Source Software CD, (2) AC Chargers, (2) Universal Couplers, (2) AxTalk Terminators, (2) Quick Clean Cleaners (1.25/2.50 mm), SC/SC Simplex adapters, 2 SC/LC Multimode Launch Cables—50 µm, 2 SC/LC Singlemode Launch Cable—9 µm, USB Fiber Inspection Video Probe with 4 Tips, (2) LC/LC Simplex Adapter, SC/LC EF-Compliant MM TRC Kit 50 µm, SC/LC SM TRC Kit, TRC Carry Case, WIFI Adapter, Statement of Calibration and Getting Started Guides	DSX2-8000QOI	**54DV23**
(2) DSX-8000 CableAnalyzer Modules, Set of Cat 8/Class I Permanent Link Adapters, Set of Cat 8/Class I Channel Adapters, (2) Headsets, (2) HandStraps, (2) Shoulder Straps, Carry Case, Versiv Open Source Software CD, (2) AC Chargers, (2) Universal Couplers, (2) AxTalk Terminators, Statement of Calibration and Getting Started Guide	DSX-8000-ADD	**54DV33**
1 GHZ DSX Replacement Module	DSX-8000-MOD	**54DV37**
Southwire		
Cable Mapper, Copper Cable Testing Verification, Built-In Toner, LCD Backlit Display, Port Covers, For Use With Mapper Remote and Cable Mapper Remote Kit	M300P	**54DF41**
Cable Tester, Copper Cable Testing Verification, Built-In Toner, LCD Backlit Display, Port Covers	58744840	**54DF42**
Cable Tester, Copper Cable Testing Verification, Identifies Correct Wiring, Opens, Shorts, Reversals, Split Pairs and Shielded Cables, Auto Power Off, Tests Shielded, Unshielded Twisted Pair and Coax	58745040	**54DF44**

6KJU4

6LFY3

22LV15

12N847

Fiber Optic Cable Testing Instruments

Description	Mfr. Model	Item No.
IDEAL		
Fiber Optic Test Kit, Power Measurement In dBm and W, Loss Display In dB, Four Wavelength MM/SM Light Source	33-931	**6KJU4**
Fiber Fault Finder, Finds Breaks, Faulty Splices and Crimps Poor Components or Connections for Fiber Cable, Visually Identifies and Locates Faults in Fiber Optic Cabling, 2.5mm Universal Adaptor for All ST, SC and FC Connectors, Useful Over a Distance of 5km (3 miles), Up to 80 hours of Operation, Ruggedised Aluminium Body	VFF5	**6LFY3**
Hubbell Premise Wiring		
Fiber Visual Fault Locator Kit, Fiber Terminations and Breaks, 1.25MM and 2.5MM Ferrule Adapters	OFVFLKT1	**22LV15**
Fluke Networks		
Fiber Optic Cleaning Supplies, Fiber Optic Cleaning, Solvent, Swabs and Cube	NFC-KIT-BOX	**12N847**
Fiber Optic Cleaning Supplies, Fiber Optic Cleaning, Solvent, Swabs, Cube and Case	NFC-KIT-CASE	**12N848**
Visual Fiber Optic Fault Locator, Visible Light Source That Helps Trace Optical Fibers, Check Fiber Continuity, And Find Faults Such as Breaks, Bad Splices, and Tight Bends In Fiber Optic Cable	VisiFault	**2EHV6**
Basic Fiber Verification Kit (MM), Verify Optical Loss and Power Levels	FTK1000	**4AZZ3**
Fiber Optic Tester, Fiber Optic Video Inspection, Allow Tier 2 Certification, Detects (850/1300nm) Multimode and (1310/1550nm) Single Mode Wavelengths, Locate Connections and Faults, Measure Loss and Reflectance	OFP-Q-ADD	**54DV48**
Fiber Optic Tester, Fiber Optic Video Inspection, Extended Single Mode Distance Range to 130km, Fiber Optic Loss, OTDR Testing and Fiber End Face Inspection, Versiv(TM) Modular Design Supports Copper Certification	CFP-Q-ADD	**54DV49**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-100-M	**54DV52**
Fiber Optic Fault Locator, Fiber Troubleshooting, Works On Multimode Fiber, 9/125micron m and 62.5/125 micron m, Locate Severe Bends, High-Loss Splices, Breaks and Dirty Connectors In Single Mode Fiber, Change The Index of Refraction (IOR) to Improve Fiber Length Accuracy	FQM-100-M-VFL	**54DV53**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-M	**54DV54**
Fiber Optic Fault Locator, Fiber Troubleshooting, Fills The Gap Between a VFL and An OTDR, VFL Simplicity, Identify Live Fiber, Provide Distance and Power Information On High Losses, Breaks At The End of The Fiber	FQM-SFP-M	**54DV55**

2EHV6

4AZZ3

54DV53

Coax Test Tools

12N834

12N837

2HTK1

2HTK2

Description	Mfr. Model	Item No.
Fluke Networks		
Pocket Toner, Continuity, AC and DC Voltages, Shorts, Opens and 50-75 Ohm Termination, Bi-gender Toner Unit with Speed 81,8-Segment LED,Low-voltage Circuit Protection,Auto Shutoff Feature	PTNX2	**12N834**
Pocket Toner, Continuity, Opens and Shorts, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX1	**12N835**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination, Two Buzzers to Indicate Continuity, Bi-Gender Toner Unit with Speed 81, Removable Toner Unit, 8-Segment LED Displays 5 Different Test Results, Low-Voltage Circuit Protection, Auto Shutoff Feature, Ability to Test Dial Tone and Polarity, 8 ID Caps	PTNX8	**12N836**
Pocket Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-CT	**12N837**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-Cable	**12N838**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-DLX	**12N839**
Pocket Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm termination - 8x Faster, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX8-VV-PRO	**12N840**
Toner, Continuity, AC and DC Voltage, Shorts, Opens and 50-75 Ohm Termination, Bi-gender toner unit with Speed 81, LED,Low-voltage Circuit Protection,Auto shutoff feature	PTNX2-DLX	**12N841**
MicroScanner² Professional Kit, Cable Tester Kit, Verifies 10/100/1000 Ethernet, POTS and PoE Voltage, Cable Length, Wiremap, Cable ID and Distance, Locates Virtually Any Cable or Wire Pair	MS2-KIT/WWG 3084134	**2HTK1**
MicroScanner² Cable Verifier, Cable Tester, Verifies 10/100/1000 Ethernet, POTS and PoE Voltage, Cable Length, Wiremap, Cable ID, and Distance	MS2-100/WWG 3084165	**2HTK2**
Southwire		
Coax Continuity Tester and Mapper, Auto Power Off, Identify Up to (4) Coax Cable Remote Locations, (4) 1.5 VLR44 Batteries, (4) ID Remotes	58744940	**54DF43**

2UWP9

2UWR1

2UWR2

5VYE0

12N846

Tone Generators and Probes Test Tools

Description	Mfr. Model	Item No.
IDEAL		
Tone Generator and Probe Kit, Cable/Wire and Pair Tracing, Continuity Testing, Polarity Indication and Service Detection, For Use With Datacom and Generic Cables/Wiring, Single Conductor, Twisted Pair, Includes (2) 9V Batteries, 62-160 Tone Generator, 62-164 Amplifier Probe, Cable Assembly, Carrying Case/Pouch, Instructions, Lead Set	33-864	2UWP9
TTT Kit, Copper Cable Wire Mapping, Amplifier Probe, Tone Generation, Wiremap, Includes (5) Adapters, Carrying Case	33-866	54DV75
Speaker Probe, Cable/Wire and Pair Tracing and Tone Detection, Battery low indicator	62-164	2UWR1
Tone Generator, Cable/Wire and Pair Tracing, Continuity Testing, Polarity Indication and Service Detection, Emits Three Different Types of Tones, Auto Off	62-160	2UWR2
Fluke Networks		
Tone Generator and Probe Kit, Cable/Wire and Pair Tracing, Continuity Testing and Polarity Indication, ABN, Strong Signal 10.5 Miles, Smart Tone	26000900	5VYE0
Cable Tracing Probe, Copper Cable Tracing (Probe), Loud Speaker On Probe	26100900	54DV59
Cable Tracing Tone Generator, Copper Cable Tracing (Tone), SmartTone(TM) Technology	26200900	54DV60
Copper Tester, Copper Cable Wire Mapping, Includes 6V Alkaline Battery and Guide, MicroMapper and MicroMapper Remote, Patch Cable	MT-8200-49A	12N846
Tone Generator and Probe Kit, For Use With Coax, Datacom and Generic Cables/Wiring, Single Conductor, Twisted Pair, Includes (2) 9V Batteries and Instructions, (2) RJ11 and (2) RJ45 Patch Cables, Coax F-Connector Adapter, Lanyards, MT-8200-61-TNR Tone Generator, MT-8200-63A Probe	MT-8200-60-KIT	36TV42
Southwire		
Tone Generator and Probe Kit, Copper Cable Tracing (Tone & Probe Kit), LED Flashlight, LED Signal Strength Indicator, Positive Cable Detection, Probe Replaceable Tip, Quickly Trace Non-Energized Cables, Rearward Facing Speaker and Stereo Headphone Jack, Toner On-Board Test Lead Storage, Includes (2) 9V Batteries, Nylon Pouch	58746340	54DF51
Tone Generator, Copper Cable Tracing (Tone), ABN Clips, On-Board Test Lead Storage, Patented Design, Tone Change, Includes (2) AAA Batteries	58746440	54DF52
Amplifier Probe, Copper Cable Tracing (Probe), Adjustable Volume, Forward Facing Flashlight, Headphone Jack, Indicator Light, Includes (2) AAA Batteries	58746540	54DF53
Tone Generator and Probe Kit, Copper Cable Tracing (Tone & Probe Kit), Audible and Visual Detection, Belt-Mount, Rugged Carrying Case, Includes (4) AAA Batteries, Alligator Clip Adapter, Automotive Fuse Adapter, Carrying Case, Coax Adapter, F-Type Adapter, RJ11 Adapter, RJ45 Adapter	58746640	54DF63

5VYD8

5VYD9

2NV58

54DF45

54DV71

54DV72

Voice, Data, and Video Test Tools

Description	Mfr. Model	Item No.
Fluke Networks		
In-Line Modular Adapter, For Use With 6-Conductor, RJ45 and RJ11	10220100	5VYD8
Modular Adapter, For Use With 4-Conductor, RJ11	10113000	5VYD9
IDEAL		
Multimedia Cable Tester, Tests voice, data, and video cables and interfaces for opens, shorts, miswires, reversals, split pairs, and correct wiremap, Easy To Read LCD Display With PASS/FAIL Indicator After Each Test	33-856	2NV58
VDV II, Copper Cable Wire Mapping, Tone Generation, Wiremap, For Use With Coax, Twisted Pair	R158000	54DV70
VDV II Plus, Copper Cable Wire Mapping, Tone Generation, Wiremap, For Use With Coax, Twisted Pair	R158002	54DV71
VDV II Pro, Copper Cable Wire Mapping, Ethernet Detection, PoE Indication, TDR Distance, Tone Generation, Wiremap, For Use With Coax, Twisted Pair	R158003	54DV72
VDV II Remotes, For Use With VDV II Tester	158050	54DV62
VDV II Identifiers, For Use With VDV II Tester	158051	54DV63
VDV II Remotes, For Use With VDV II Tester	158053	54DV64
Southwire		
Phone Outlet Tester, Copper Cable Testing Verification, Identifies Correct Wiring, Line Reversed, AC Ring Voltage and Dead Line Conditions, Tests Both Line 1 and Line 2, Tri-Color LED's Display Outlet Condition, Color Legend Printed On Tester, For Use With Telephone Test Set	58745340	54DF45

36T731

5VYE2

5VYE3

5VYE4

5VYE5

Butt-In Test Set Tools

Description	Mfr. Model	Item No.
Fluke Networks		
Test Set, VDV, Backlit Keypad and Rain/Drop Safe, Data Lockout Protection/Override, DSL/POTS Filtering, Last Number Redial, Mute, One-Way Amplified Speaker, Polarity Indication, Speed Dial Memory, Two-Way Speakerphone	TS54-A-09-TDR	36T731
Test Set, Butt in Test Set, Line Monitor, Telephone Test Set, Polarity Indication and Last Number Redial	19800009	5VYE2
Test Set, Butt in Test Set, Line Monitor, Telephone Test Set, Last Number Redial and Mute, Polarity Indication	30800009	5VYE3
Test Set, Butt in Test Set, Call Waiting Caller ID, Caller ID, Data Safe, Digit Grabbing, Line Monitor, Telephone Test Set, Tone Generator, Data Lockout Protection/Override, DSL/POTS Filtering, Last Number Redial, Mute, One-Way Amplified Speaker and Speed Dial Memory, Polarity Indication	25501109	5VYE4
Test Set, Butt in Test Set, Caller ID, Data Safe, DC Meter, Digit Grabbing, Miliamp Detection, Telephone Test Set, Data Lockout Protection/Override, DSL/POTS Filtering, Last Number Redial, Mute, One-Way Amplified Speaker, Polarity Indication, Speed Dial Memory and Backlit Keypad, Two-Way Speakerphone	52801009	5VYE5
Test Set, Telephone Line Tester, Amplified Speaker, Drop Safe, One-Way Speakerphone	22800009	54DV58
Southwire		
Telephone Test Set, Autodial, Electronic Ringer, Line Monitor, ABN (Angled Bed of Nails) Clips with Rugged RJ45 and RJ11 Plugs, Hi-Z Monitoring, High and Low Volume Settings, Last Number Redial and Memory to Store Up to (10) Phone Numbers, Polarity LED, Tone and Pulse Modes	B600	54DF31
Replacement Leads, Telephone Test Set, Angled Bed of Nails, For Use With Mfr. No. B600	58743040	54DF60

5VYE6

5VYE7

6KJT7

6KJT9

Voice/Data Installation Tool Kits

Description	Mfr. Model	Item No.
Fluke Networks		
4 pc., Communications Tool Kit, Includes 66/110 Cut Blade, Cable Stripper, D-Snips, Impact Tool, Mini Maglite, Sharpie pen	11293000	**5VYE6**
6 pc., Communications Tool Kit, Includes 4-Wire Modular Adapter and Round Cable Stripper, 66/110 Eversharp Combo Blade, D-Snips, D814 Impact Tool, Probe Pic, TS30	11290000	**5VYE7**
IDEAL		
6 pc., Pro Network/Telco Installer Kit, Includes (50) RJ45 Modular Plugs	33-506	**6KJT7**
15 pc., Communications Tool Kit, Features Telephone Tool, Punch Down Tool, Probe Pick & Spudger, Coax Stripper, Scissor/Knife Kit, Punch Down Blade, LinkMaster Tester, Screwdriver, Tone and Probe Kit, 6-Position Modular Adapter, Wire Stripper/Crimper, RJ45 Modular Plug, Bag	33-706	**6KJT9**
Jonard Tools		
General Hand Tool Kit, Includes Cable Stripper with Stop, Dual Compression Tool, High Leverage Cutter Plier, LED Flashlight, Pocket Continuity Tester and Toner, Pouch with Belt Clip, Screwdriver, Torque Wrench	TK-87	**54DV85**
General Hand Tool Kit, Includes High Leverage Diagonal Cutter Plier, LED Flashlight with Zoom Lens, Molded Pouch with Belt Clip, Pocket Continuity Tester and Toner, Torque Wrench	TK-89	**54DV86**
Southwire		
Communications Tool Set, Includes Coax Trigger Strip Tool, Compact Compression Coax Crimp Tool, F-Type Compression Connector, Round Cable Cutter	58744040	**54DF39**
Communications Tool Set, Includes Crimp Tool, Punchdown Tool, RJ45 Connector, Screwdriver	58744140	**54DF61**

22C740

54DV74

54DV79

D-Snips
5VYD4

Can Wrench
5VYD6

5VYD5

483K15

Data Comm Hand Tools

Description	Mfr. Model	Item No.
IDEAL		
Crimper, Crimps IDC Connectors, Slim, Lightweight, Locking Latch, Cushion Grip	33-719	**22C740**
Crimper and Connector Kit, For Use With Modular Plugs, RJ-11, RJ-45, Includes (10) RJ45, (10) RJ11	33-396	**54DV65**
Crimper, For Use With Compression C, BNC, RCA Connectors, Adjustable Post, RG-59, RG-6	33-632	**54DV74**
Crimper, For Use With 85-376, Mfr. No. 85-371, Feed-Thru, RJ-45	30-495	**54DV79**
Fluke Networks		
Electricians Scissors, Wire Stripper, Ergonomic D-handle, 3" Long Blade, Cable Snips, Cutters, Datacom Scissors, Electrician Snips	44300000	**5VYD4**
Can Wrench, Security Cabinet Wrench, For Use With Cabinets, Cross Boxes, Nids	44007000	**5VYD6**
Needle Nose Pliers, For Use With Datacom/Electrical Cable, Scotch Locks	11294000	**5VYD5**
Southwire		
Crimper and Connector Kit, For Use With CATV Cables, F Connectors, RG-59, RG-6 and RG-6Q, Includes (4) F Connectors for RG6 Coax	58743140	**54DF33**
Crimper, For Use With CATV Cables, RCS, BNC Connectors, 3-Way Chuck, Rotatable Connector Seat, Double-Molded Grips, Handle Lock, RG-11, RG-59, RG-6, RG-6Q, RG-7	58743240	**54DF34**
Crimper, For Use With Phone and Data Cables, Cutting Blade, Handle Lock, RJ-11, RJ-12, RJ-45	59148440	**54DF48**
Ratchet Crimper, For Use With Coax Cable, X Connectors, Near-Parallel Travel Crimping Jaw, Precision Ratchet with Release, Handle Lock, RG-59, RG-6 and RG-6Q	58745640	**54DF58**
Jonard Tools		
Dual Compression Tool, For Use With F-Type RG-6 and 59 Connector, Used On Short or Long F Connectors For RG-6 & RG-59, Also Works On RG-11, Includes Dual Compression Head	CTF-230	**54DV89**
Fiber Optic Stripper, For Use With Fiber Optic Cables, Ergonomic Design, Yellow Thermoplastic Rubber Handle	JIC-200	**483K15**

5VYC8

5VYC9

5VYD0

54DF47

Punchdown Tools

Description	Mfr. Model	Item No.
Fluke Networks		
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10055501	**5VYC8**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10051501	**5VYC9**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10061501	**5VYD0**
Punch Down Tool, Terminate Category Cable to 66/110 Blocks and Jacks	10061810	**5VYD1**
JackRapid Termination Tool, for Category Cable to Leviton 110 Cat 5 Jacks, Multi Pair Termination	JR-LEV-1	**5VYD2**
JackRapid Termination Tool, for Category Cable to Leviton 110 Cat 6 Jacks, Multi Pair Termination	JR-LEV-2	**5VYD3**
Punch Down Tool Kit, 110/66 Blade Type, Includes Cable Stripper, D-Snips, Impact Tool, Probe Pic	11291000	**54DV56**
Punch Down Tool Kit, 110/66 Blade Type, Includes 66 and 110 Blades, Cable Stripper, D-Snips, Impact Tool	11292000	**54DV57**
Southwire		
Punch Down Tool Blade, 110 Blade Type, Includes Blade	58745440	**54DF46**
Punch Down Tool Blade, 110/66 Blade Type, Includes (2) Blades	58745540	**54DF47**
Punch Down Blade, 110 Blade Type, Description/Special Features Metal Injection-Molded Blade, Reversible	58742640	**54DF29**

Coax Stripper
5VYD7

54DV76

54DV84

54DF50

54DF59

Coax Strippers/Cutters

Description	Mfr. Model	Item No.
Fluke Networks		
Radial Coax Stripper, 2 and 3 Levels	11231255	**5VYD7**
IDEAL		
Replacement Cartridge, Notched Blade, Strip Only, Coax, RG59, RG6, RG6Q	45-6051	**54DV66**
Replacement Cartridge, Fixed Blade Depth, Strip Only, UTP, CAT5e, CAT6	45-6052	**54DV67**
Cable Stripper, Strip Notches Pre-Set and Locked, No Field Adjustment Necessary, Strip/Buffing Removal, Fiber Optic, 3mm, 900 microinch	45-352	**54DV76**
Jonard Tools		
Center Conductor Cleaner, Replaceable Blades, Clean, Coaxial	CC-120	**54DV84**
Stubby Strip Tool, Hook and Loop Strip, Large Finger Loop, Strip Only, Coaxial, RG59/6	CSS-596	**54DV88**
Replacement Blade Set, 5,000 Cuts	CSS-105	**54DV87**
Replacement Blade Set, Blades Replaced by Removing and Retightening 4 Easy Access Screws, Includes (2) Straight Edged Cleaning Blades, (2) V-Notched	CC-4	**54DV80**
Southwire		
Cable Stripper, Three Positions for Different Size Cables, Strip Only, Category 3, 5, 5E and 6 Cables, 10 to 24 AWG	58746140	**54DF49**
Cable Stripper, Trigger Design Makes the Tool Easy to Control, Strip Only, Coaxial, 24 to 18 AWG	58746240	**54DF50**
Coax Prep Tool	58743440	**54DF57**
Coax Cable Stripper, Stainless Steel for Corrosion Resistance, Strip/Cut, Coaxial, 24 to 18 AWG	58746840	**54DF59**

21XN71

6KJT8

Coax Crimpers

Description	Mfr. Model	Item No.
Compression Tool for BNC, F-Type, RG-11, RCA & Mini Coax Connectors; Cutting Multi-pair Cable up to ½" and Coax Cable up to RG-9U; Stripping RG-6, RG-6 Quad, RG-59 Coax Cable	33-793	**21XN71**
Termination for Crimp and Compression Connectors, Coax Crimper/Cutter/Stripper Kit	33-410	**6KJT8**

5JC04

5JC01

6KCK5

3XJV5

22HU69 19YY54

Chemtronics® TECHSPRAY®

Soldering Accessories

Description	Item No.	Pkg. Qty.
Chemtronics		
Chemask Peelable Solder Mask 8 oz	56LU85	1
CircuitWorks Overcoat Pen Green, 4.9g	5JC01	1
CircuitWorks Silver Conductive Grease, 6.5g Syringe	1UYE2	1
Electro-Wash MX Cleaner Degreaser Wipes	56LU86	1
Foamtips Cleaning Swabs, 5.1 in L	1UYE1	50
Isopropyl Alcohol Wipes, 100 Wipes	56LV06	1
Konform AR Acrylic Conformal Coating 11.5 oz	56LU87	1
Konform SR Silicone Conformal Coating 10 oz	56LU88	1
Pow-R-Wash CZ contact cleaner 12 oz	56LV03	1
Pow-R-Wash VZ contact cleaner 12 oz	56LV01	1
Ultrajet 70 Air Duster, 10 oz. Aerosol	5JC04	1
Techspray		
70% Isopropyl Alcohol, 1 gal.	22HU53	1
70% Isopropyl Alcohol Cleaning Wipes, Flip-Top Tub	22HU54	100
70% Isopropyl Alcohol Cleaning Wipes, Pop-Up Tub	22HU58	1
70% Isopropyl Alcohol Cleaning Wipes, Refill	22HU55	100
99.8% Isopropyl Alcohol, 1 gal.	6KCK5	1
99.8% Isopropyl Alcohol, 5 gal.	19YY52	1
99.8% Isopropyl Alcohol, Individually Wrapped Packets	3XJV6	1
99.8% Isopropyl Alcohol, Pop-Up Tub	3XJV5	1
99.8% Isopropyl Alcohol Cleaning Wipes, Flip-Top Tub	22HU56	100
99.8% Isopropyl Alcohol Cleaning Wipes, Refill	22HU57	100
Conformal Coating, PCB Coating	22HU90	1
Diagnostic Freezer, 100% Pure HFC-134a	22HU69	1
Diagnostic Freezer, 15 oz	22HU70	1
Ecoline Blue Shower Cleaner/Degreaser, 10 oz.	19YY54	1
G3 Blue Shower Cleaner/Degreaser, 16 oz.	22HU91	1
Silicone-Free Heat Sink Compound, 4 oz	19YY66	1

19YP77

American Beauty ITW Chemtronics® SODER-WICK® Desoldering Braid

Desoldering Braids

Used to wick solder away from circuit boards. Antistatic braids are packaged in a ESD-safe, static dissipative bobbins.

No-clean flux type braid is nonionic. Nonconductive residue does not have to be cleaned off the board.

5HZ97

Flux Type	Braid Number	Color	W	L	Item No.	Pkg. Qty.
American Beauty						
No-Clean	0	Black/Red	0.0938 in	8 ft	19YP77	1
Rosin	3	Green	0.075 in	5 ft	49W641	25
Rosin	4	Blue	0.098 in	5 ft	49W642	25
Chemtronics						
Rosin	4	Blue	—	10 ft	24JY90	1
Rosin	3	Green	0.075 in	5 ft	5HZ97	1
Techspray						
Rosin	3	Green	0.075 in	5 ft	6KCH9	1
Rosin	3	Green	0.075 in	10 ft	6KCJ0	1
Rosin	4	Blue	0.098 in	5 ft	6KCJ1	1
Rosin	4	Blue	0.098 in	10 ft	6KCJ2	1

19YP78

3W887

23Z363

American Beauty Weller® JONARD TOOLS®

Desoldering Hand Pumps

Remove and clean unwanted solder. One-handed operation. Pumps are self cleaning.

Item	Characteristics	L	Brand	Mfr. Model	Item No.
Desoldering Bulb	—	3 ½ in	American Beauty	SS-8	19YP78
Desoldering Pump	ESD Safe	11 ¼ in	Weller	7874B	3W887
High Vacuum Desoldering Pump	PTFE Tip	13 in	Jonard Tools	DP-100	23Z363
High Vacuum Desoldering Pump	ESD Safe, PTFE Tip	13 in	Jonard Tools	DP-200	23Z364

TECHSPRAY® Chemtronics® Weller® PLATO

Flux and Flux Removers

Welding flux removers can make it easier to clean welding flux from stick welding rods and other items. Flux can be difficult to remove manually, but the chemicals in these products can break it down without the added work.

19YY51

5JC06

22HU60

19YY74

5JC02

Description	Size	Brand	Item No.
Flux Removers			
Eco-Oven SMT Oven Cleaner	1 qt	Techspray	19YY51
Electro-Wash Two Step	1 gal	Chemtronics	56LU90
Electro-Wash VZ Degreaser	12 oz	Chemtronics	56LV02
E-Line Flux Remover	10 oz	Techspray	19YY55
E-Line Flux Remover w/Brush	10 oz	Techspray	32LF69
Flux-Off Aqueous	1 gal	Chemtronics	56LU91
Flux-Off BrushClean No Clean Plus	12 oz	Chemtronics	56LU95
Flux-Off Lead-Free	12 oz	Chemtronics	56LU96
Flux-Off Lead-Free	1 gal	Chemtronics	56LU98
Flux-Off No Clean Plus	1 gal	Chemtronics	56LU97
Flux-Off VZ	12 oz	Chemtronics	56LU89
Flux-Off Water Soluble	13½ oz	Chemtronics	56LU92
Flux-Off BrushClean Rosin Remover	5 oz	Chemtronics	5JC06
Flux-Off Rosin Remover	16 oz	Chemtronics	1UYD9
G3 Flux Remover	16 oz	Techspray	22HU60
G3 Flux Remover w/Brush	16 oz	Techspray	32LF73
Tracetech Flux Remover Pen	0.32 oz	Techspray	3JDK7
Flux Dispensers			
Needle Tip, 0.02 in, ESD	—	Weller	6W719
Needle Tip, 0.25mm	2 oz	Plato	19YY74
Needle Tip, 0.50mm	2 oz	Plato	19YY73
Needle Tip, ESD, 0.25mm	2 oz	Plato	19YY75
No Clean Flux Pen	0.32 oz	Chemtronics	5JC02
Rosin Flux Pen	0.32 oz	Chemtronics	5JC03

19YP76

19YP60

32TV33

22HU71

22HU66

1UNE7

American Beauty HAKKO® PLATO Weller®

Soldering Tip Maintenance

Cleans and renews soldering tips for longer life.

Description	Size	Mfr. Model	Item No.	Pkg. Qty.
American Beauty				
Soldering Iron Tip Cleaner, Includes Stand, Brass	2.75 in x 2.75 in	CS-BS1	19YP75	1
Soldering Iron Tip Cleaner, Brass	4 in L	CS-BS2	19YP76	1
Soldering Iron Tip Cleaner, Includes Cellulose Sponge and Tray	4 in L	481	19YP60	1
Replacement Sponge	—	481S	49W654	6
Hakko				
Solder Tip Cleaner Refill, Brass	—	599-029	32TU30	1
Tip Cleaner, Brass	S	599B-02	32TV33	1
Plato				
Tip Cleaning Sponge	2.12 in x 1.5 in x 1 in	CS-1	22HU71	1
Tip Cleaning Sponge	2.7 in x 2.7 in x 0.625 in	CS-44/625	22HU80	1
Tip Cleaning Sponge	2.7 in x 2.7 in x 1 in	CS-44	22HU79	1
Tip Cleaning Sponge	2.75 in x 2.15 in x 1 in	CS-14	22HU72	1
Tip Cleaning Sponge	3.2 in x 2.1 in x 1 in	CS-47	22HU82	1
Tip Cleaning Sponge	3.5 in x 2.25 in x 1 in	CS-36	22HU77	1
Tip Cleaning Sponge	4.5 in x 3.5 in x 0.625 in	CS-9/625	22HU83	1
Tip Cleaning Sponge, Cut-to-Fit Sheet	17 in x 8.5 in x 0.9 in	CS-17	22HU74	1
Tip Cleaning Sponge, Cut-to-Fit Sheet	17 in x 8.5 in x 0.625 in	CS-17/625	22HU75	1
Tip Cleaning Sponge, Includes Holes	2.75 in x 2.15 in x 1 in	CS-14M	22HU73	1
Tip Tinner, Oxi Tips Solder/Cleaner Combo	—	TT-95	22HU66	1
Weller				
Replacement Wool Ball	—	T0051384099	1UNG4	2
Soldering Sponge	4.625 in x 3 in x 1.5 in	EC205	5VZZ4	1
Soldering Sponge, Swiss Cheese Style	—	EC305	5VZZ5	1
Sponge	—	WCC104	20UX42	1
Tip Cleaner, Dry Tip Cleaner	—	T0051512599	20UX60	1
Tip Dry Cleaning System, Includes Stand And One Wool Ball	—	T0051512499	1UNG3	1
Tip Polishing Bar	—	WPB1	1UNE7	1

Weller®

Fume Extractors

Bench Top—Both units feature a rotary vane pump. 2UV21 is designed for removing flux fumes from a soldering work bench.

2UV21

5WAC1

Item	Air Flow	Input Voltage	Includes	Mfr. Model	Item No.
Soldering Fume Extractors					
Benchtop Solder Smoke Absorber	87 to 107 cfm	120V AC	1 Carbon Filter	WSA350	**2UV21**
Stationary Fume Extractor	—	120/230V	Angled Nozzle, Bench Mounting Bracket, Extraction Arm, Extraction Hose, Extraction Unit, Stop Valve	U-100-1056-ESDN	**5WAC1**
Portable Fume Extractor	—	120V	Compact HEPA Gas Filter, Fine Dust Filter	T0053660299N	**20UX28**
Accessories					
Replacement Filter			For Use With Mfr. No. WFE2P	T0053641099	**20UX40**
Pre-Filter			For Use With Mfr. No. WFE2P	T0053642199	**20UX41**
Replacement Filter			For Use With Mfr. No. WFE2S	T0058735937	**20UX20**
Replacement Carbon Filter			For Use With Mfr. No. W5A350	WSA350F	**2UV22**
Arm Kit			For Use With Mfr. No. WFE2S	T0053657199N	**20UX22**
Inlet Fitting			For Use With Mfr. No. WFE2S	T0058762769	**20UX29**
Tee Inlet Fitting			For Use With Mfr. No. WFE2S	T0058762766	**20UX31**
Tube			For Use With Mfr. No. WFE2S	T0052918699N	**20UX36**
Tube			For Use With Mfr. No. WFE2S	T0052918599N	**20UX37**
Soldering Iron			For Use With Mfr. No. WFE2S	T0052916699N	**20UX38**
Parts Kit			For Use With Mfr. No. WFE2S	T0058744876	**20UX39**

Fume Extractors

HAKKO®

Benchtop Soldering Fume Extractor—Designed to be used in either a vertical, standing up position or a horizontal, laying down position. Horizontal position increases efficiency and airflow. Standard activated carbon filter absorbs up to 80 percent of odors from the air.

Soldering Fume Extractor—This extractor features powerful suction, quiet operation, High, Medium, and Low airflow adjustment, free-standing ducts, and a filter replacement indicator that notifies you when it's time to replace the filter.

32TV20

32TV21

Description	No. of Inlets	Air Flow	Input Voltage	Mfr. Model	Item No.
Fume Extractors					
Benchtop Soldering Fume Extractor, Activated Carbon Foam Filter	1	38.8 cfm	120V AC	FA400-04	**32TV20**
Soldering Fume Extractor, Activated Carbon Filter	2	167 cfm	120V AC	FA430-16	**32TV21**
Accessories					
For Use With Mfr. No. FA400					
Fume Extractor Carbon Filter, Polyurethane Foam, Pkg. of 5				A1001	**32TV15**
For Use With Mfr. No. FA430					
Fume Extractor Loc Line Kit, Neoprene, Round Nozzle				999-205-01B	**32TV12**
Fume Extractor Duct Kit, ESD Safe Plastic, Rectangular Nozzle				C1571	**32TV18**
Fume Extractor Duct Kit, ESD Safe Plastic, 55mm dia x 1.2m				C1572	**32TV19**
Fume Extractor Carbon Odor Filter, Pleated Media, Pkg. of 1				999-245	**32TV14**
Fume Extractor Pre Filter, Polyethylene, Pkg. of 10				A1585	**32TV16**
Fume Extractor Main Filter, Pleated Paper Medium, Pkg. of 1				A1586	**32TV17**
Fume Extractor Loc Line Kit, Neoprene, Rectangular Nozzle				999-205-02B	**32TV13**

1WG61

1YMK5

5HD24

5PYT5

5VZZ7

MASTER APPLIANCE®
Designers and Manufacturers of Heat Tools for Industry

Weller®

Butane-Powered Micro Torches

Master Appliance—All torches are self-igniting. Meet CPSC requirements.

32MC12 and 5PYT3 are palm size and feature pinpoint flame with lever adjustment.

32MC12 includes $^{15}/_{16}$-oz. canister of butane fuel.

1WG61, 5PYT6, and 1YMK6 are designed for handheld or tabletop use. Runs for 2 hr. 1WG61 and 5PYT5 are open flame only.

5HD24 has larger flame hands-free mode with safety lock. Runs for 30 min.

5PTY6 has miniature torch with slide lock, instant Off, and gas adjustment wheel. Runs for 1hr.

1YMK5 and 6NE94 are handheld/tabletop tools that feature slide lock, gas adjustment wheel, and instant off. Runs for 2 hr.

Includes	Mfr. Model	Item No.
Master Appliance		
Refillable Fuel Cell	MT-11	**32MC12**
2 oz Can of Butane, Refillable Fuel Cell	MT-11K	**5PYT3**
Built in Refillable Fuel Tank and Hands Free Lock	MT-51	**1WG61**
$^{15}/_{16}$ oz Can of Butane, Built in Refillable Fuel Tank, Hands Free Lock	MT-51B	**5PYT5**
Built in Refillable Fuel Tank and Hands Free Lock, Hot Air Tip and Heat Shrink Attachment	MT-51H	**1YMK6**
Built in Refillable Metal Fuel Tank and Removable Base	GT-70	**5HD24**
Built in Refillable Fuel Tank and Removable Base	MT-70	**5PYT6**
Removable Base	MT-76	**1YMK5**
Needle Nose Pliers, 5 in Wire Cutter, 60/40 Solder, Polyfoam Cutter, Removable Base, Rugged Plastic Storage Case, Shrink Attachment, Sponge	MT-76K	**6NE94**
Weller		
Torch	ML200	**5VZZ7**

MASTER APPLIANCE WESTWARD Weller

Butane-Powered Soldering Irons

Provide rapid heat from non-toxic butane fuel and without the need for batteries or electricity.

2-in-1 Butane Soldering Irons—Tools can be used with compatible tips for use as a soldering iron or flameless heat tool. Applications include heat-shrink wrapping, desoldering surface-mount components, and soldering large items.

3-in-1 Butane Soldering Irons—These tools are used with compatible tips for use as a soldering iron, flameless heat tool, or open-flame torch. Suitable for use in soldering and desoldering, removing surface-mount components, and in heat-shrink tubing applications.

2-in-1
6NE96

3-in-1
3W772

Kit
4UZZ8

Equivalent Wattage Range	Maximum Solder Tip Temperature	Tip Type	Tip Width	Run Time	Ignition Type	Brand	Mfr. Model	Item No.
2-in-1 Butane Soldering Irons								
Heat Tool								
200 W	986 °F	Chisel, Heat Shrink, Hot Air	10 mm	150 min	Self-Igniting	Master Appliance	UT200SI	**3W773**
Self-Igniting Economy Heat Tool								
20 W to 80 W	840 °F	Chisel, Hot Air	2.4 mm	78 min	Self-Igniting	Master Appliance	UT-40SI	**6NE96**
Soldering Iron And Heat Tool								
20 W to 80 W	840 °F	Heat Shrink, Hot Air	—	78 min	Self-Igniting	Master Appliance	UT-40SiH	**5PYR9**
3-in-1 Butane Soldering Irons								
Butane Hot Knife								
20 W to 80 W	932 °F	Knife	—	120 min	Self-Igniting	Master Appliance	UT-100Si-HK	**5PYT0**
Butane Soldering Iron								
30 W to 125 W	752 °F	Conical	—	140 min	Self-Igniting	Westward	—	**4UZZ6**
30 W to 125 W	842 °F	Conical	—	115 min	Self-Igniting	Westward	—	**4UZZ5**
Heat Tool								
20 W to 60 W	842 °F	Hot Air	—	20 min	Manual-Ignition	Master Appliance	UT-50	**3W774**
20 W to 80 W	932 °F	Chisel, Heat Shrink, Hot Air	3.3 mm	120 min	Self-Igniting	Master Appliance	UT-100SI	**3W772**
Soldering Iron								
25 W to 60 W	932 °F	Chisel, Hot Air	2 mm	180 min	Self-Igniting	Weller	WPA2N	**5JH87**
Ultratorch								
20 W to 80 W	932 °F	Chisel, Heat Shrink, Hot Air	3.3 mm	120 min	Self-Igniting	Master Appliance	UT-100SIK	**5HD27**

Equivalent Wattage Range	Maximum Solder Tip Temperature	Tip Type	Tip Width	Run Time	Ignition Type	Kit Includes	Brand	Mfr. Model	Item No.
Soldering Kits									
20 W to 80 W	500 °C	Chisel	2 mm	180 min	Manual-Ignition	Hot Air Tip, Soldering Tip, Storage Case	Weller	WSTA3	**5WAC3**
20 W to 80 W	932 °F	Chisel, Heat Shrink, Hot Air, Knife, Needle	0.5 mm, 3.3 mm, 8 mm	120 min	Self-Igniting	Heat Shrink Attachment, Needle Nose Pliers, Solder, Sponge, Storage Case, Wire Cutter	Master Appliance	UT-100Si-TC	**1YMK1**
25 W to 75 W	1,076 °F	Chisel, Heat Shrink, Hot Air, Knife	2.4 mm	60 min	Self-Igniting	—	Weller	WLBUK75	**787CZ3**
30 W to 125 W	842 °F	Heat Shrink, Hot Air, Conical	—	115 min	Self-Igniting	Sponge	Westward	—	**4UZZ8**
30 W to 125 W	842 °F	Heat Shrink, Hot Air, Conical	—	—	Self-Igniting	Sponge	Westward	—	**4UZZ9**
125 W	1,076 °F	Chisel, Hot Air, Knife	0.031 in, 0.125 in	120 min	Self-Igniting	Sponge, Storage Case, Tool Stand	Weller	PSI100K	**5JH60**

Description	Item No.	Pkg. Qty.
Accessories		
Master Appliance		
Butane Refill Canister, 5⅛ oz	**3W799**	1
Butane Refill Canister, 5⅛ oz	**3KMT5**	24
Westward		
Hot Air Tip, For Use With 4UZZ5, 4UZZ8, 4UZZ9	**5CYX4**	1
Soldering Tip, For Use With 4UZZ6	**5CYX8**	1
Hot Air Tip, For Use With 4UZZ6	**5CYY0**	1
Hot Air Tip, For Use With 4UZZ6	**5CYY2**	1

Cordless Soldering Irons

Weller

Use batteries or butane fuel and are ideal for use in locations where a corded power supply is not available.

Description	Watts	Temp. Rating	Mfr. Model	Item No.
Battery-Powered				
LED Soldering Iron	4.5	900°F	BP650MP	**20JH92**
LED Soldering Iron	6 to 8	900°F	BP865MP	**20JH93**
Butane-Powered				
Self-Igniting Piezo Ignition	25 to 75	850°F	P2C	**6NE59**
Self-Igniting Piezo Ignition Kit	25 to 75	—	P2KC	**6NE58**
Soldering Kits				
Professional Self-Igniting Kit	125	—	PSI100K	**5JH60**
Butane-Powered				
Professional Self-Igniting	25 to 60	482° to 932°F	WPA2N	**5JH87**
Soldering Kits				
Pyropen	—	932°F	WSTA3	**5WAC3**
Butane-Powered				
Fuel for Butane-Powered Irons, 2 oz.	—	—	TTWB1	**5JH81**

20JH92

6NE59

6NE58

American Beauty

Electric Corded Soldering Irons and Kits

Heating elements are wound around steel spools, creating large reservoirs of heat to run longer seams, solder large joints, and have quicker thermal recovery. High top-end temps. make irons suitable for lead-free soldering.

Heavy-duty and Ergo irons have hardwood handles that provide thermal and electrical insulation. Pencil irons have plastic handles and plug-style tips for superior heat transfer. Ergo irons have a near 90° angle in the casing to reduce stress on hands and wrists. Soldering iron kits include soldering iron with stand, lead-free solder wire, flux, tip tinner, brass sponge tip cleaner, desoldering braid, and cleaning pad.

5ZGV6

5ZGV9

5ZGW0

5ZHC7

5ZHC6

5ZHC1

19YP63

19YP62

5ZHA5

Tip	Tip Size	Watts	Temp. Rating	Mfr. Model	Item No.
Soldering Iron					
Chisel Style	⅝ in, ⅞ in, 1 ⅛ in	300	1000°F	3178-300	**5ZGV0**
Chisel Style	1 ⅛ in	550	1010°F	3198-550	**5ZGU9**
Diamond Style	¼ in	60	850°F	3125-60	**5ZGV7**
Diamond Style	¼ in	75	930°F	3125-75	**5ZGV6**
Diamond Style	⅜ in	100	855°F	3138-100	**5ZGV5**
Diamond Style	⅜ in	150	1010°F	3138-150	**5ZGV4**
Diamond Style	⅜ in	175	1025°F	3138X-175	**5ZGV3**
Diamond Style	⅝ in	200	1000°F	3158-200	**5ZGV2**
Diamond Style	⅝ in	250	1000°F	3158X-250	**5ZGV1**
Chisel Style	⅛ in	20	805°F	3108-20	**5ZGV9**
Screwdriver Style	¼ in	40	950°F	3112-40	**5ZGV8**
Screwdriver	¼ in	60	1000°F	3112 120-60	**49W655**
Soldering Iron Heating Element					
Fits With 5ZGU9				9279-550	**5ZGY9**
Fits With 5ZGV0				9277-300	**5ZGZ0**
Fits With 5ZGV1				9275X-250	**5ZGZ1**
Fits With 5ZGV2				9275-200	**5ZGZ2**
Fits With 5ZGV3				9273X-175	**5ZGZ3**
Fits With 5ZGV4, 5ZGW1				9273-150	**5ZGZ4**
Fits With 5ZGV5, 5ZGW2				9273-100	**5ZGZ5**
Fits With 5ZGV6, 5ZGW3				9271-75	**5ZGZ6**
Fits With 5ZGV7, 5ZGW4				9271-60	**5ZGZ7**
Fits With 5ZGV8				9012-40	**5ZGZ8**
Fits With 5ZGV9				9014-20	**5ZGZ9**
Ergonomic Soldering Iron					
Diamond Style	¼ in	60	805°F	3125E-60	**5ZGW4**
Diamond Style	¼ in	75	930°F	3125E-75	**5ZGW3**
Diamond Style	⅜ in	100	855°F	3138E-100	**5ZGW2**
Diamond Style	⅜ in	150	1010°F	3138E-150	**5ZGW1**
Diamond Style	⅜ in	175	1025°F	3138XE-175	**5ZGW0**
Diamond Style	⅝ in, ⅞ in, 1 ⅛ in	200	1000°F, 1010°F	3158E-200	**19YP54**
Diamond Style	31/50 mm	250	—	3158XE-250	**19YP55**
Chisel Style	87/100 mm	300	—	3178E-300	**19YP56**
Chisel Style	14/25 mm	550	—	3198E-550	**19YP57**
High Capacity Plier-Style Resistance Soldering System					
Carbon Block	¼ in	1800	—	105L5	**5ZHC2**
High Capacity Resistance Brazing System					
Carbon Block	½ in	3000	—	10577	**5ZHC0**
High Capacity Tweezer-Style Resistance Soldering System					
Copper Coated Stainless Steel	⅛ in	1100	—	105L7	**5ZHC4**
Light Capacity Tweezer-Style Resistance Soldering System					
Copper Coated Stainless Steel	5/64 in	250	—	10502	**5ZHC7**
Standard Capacity Probe-Style Resistance Soldering System					
Copper Coated Carbon Rod	¼ in	1100	—	10509	**5ZHC5**
Standard Capacity Tweezer-Style Resistance Soldering System					
Copper Coated Stainless Steel	⅛ in	250	—	10504	**5ZHC6**
Ultra-High Capacity Plier-Style Resistance Soldering System					
Carbon Block	½ in	1800	—	10505	**5ZHC1**
Ultra-High Capacity Tweezer-Style Resistance Soldering System					
Copper Coated Stainless Steel	⅛ in	1800	—	105K5	**5ZHC3**

			CHISEL		DIAMOND		SCREWDRIVER		CHISEL, 438 IN LENGTH	
Tip Dia.	Overall Length (in.)	For Use With	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
Soldering Tips										
0.875 in	5.14	5ZGV0	45C	**5ZGW8**	45D	**5ZGW9**	45S	**5ZGX0**	—	—
0.625 in	4.685	5ZGV1, 5ZGV2	44C	**5ZGX1**	44D	**5ZGX2**	44S	**5ZGX3**	—	—
0.375 in	4.375	5ZGV3, 5ZGV4, 5ZGV5,5ZGW0, 5ZGW1, 5ZGW2	—	—	43D	**5ZGX5**	43S	**5ZGX6**	43C	**5ZGX4**
0.25 in	3.375	5ZGV6, 5ZGV7, 5ZGW3, 5ZGW4	42C	**5ZGX7**	42D	**5ZGX8**	42S	**5ZGX9**	—	—
0.25 in	2.25	5ZGV8, 5ZHA7	704	**5ZGY0**	709	**5ZGY1**	720	**5ZGY2**	—	—
0.1875 in	2.25	5ZHA8	643	**5ZGY3**	610	**5ZGY4**	618	**5ZGY5**	—	—
0.125 in	2.25	5ZGV9, 5ZHA9	501	**5ZGY6**	505	**5ZGY7**	507	**5ZGY8**	—	—
1.125 in	5.87	5ZGU9	46C	**5ZGW5**	46D	**5ZGW6**	46S	**5ZGW7**	—	—

Tip	Watts	Temp. (°F)	Includes	Mfr. Model	Item No.
Soldering Kit					
Chisel	25	875°F	Cases and Stand, Solder, Desoldering Braid, Fluxing Pen	PSK25	**19YP61**
Iron Plated Copper	50	1,050°F	Cases and Stand, Desoldering Braid, Flux, Solder	PSK50	**19YP62**
Iron Plated Copper	150	1000°°F	Plastic Case, Flux, Solder, Stand, Solder Sucker, Tip Tinner	PSK150	**19YP63**
Chisel	300	1,050°F	Solder, Plastic Case, Fluxes and Sal Ammoniac, Stand	PSK300	**36JT53**
Chisel	300	1,050°F	Solder, Plastic Case, Fluxes and Sal Ammoniac, Stand	PSK300-PB	**36JT54**
Soldering Iron Maintenance Kit					
For Use With 5ZGU9, 5ZGV0, 5ZGV1, 5ZGV2, 5ZGV3, 5ZGV4, 5ZGV5, 5ZGV6, 5ZGV7, 5ZGW0, 5ZGW1, 5ZGW2, 5ZGW3, 5ZGW4, 5ZHA7, Soldering Iron 5ZGV8			Bore Brushes For ¼ In Through 1⅛ In Heavy-Duty Irons (5 Total)	CS-ABKIT	**5ZHA5**

Soldering Station
32TV11

32TU99

Soldering/Desoldering Station
32TV04

HAKKO®

Soldering/ Desoldering Stations and Tips

Soldering Stations— Digital Soldering Station 32TV10 features 5 preset temperatures, password protection, and a low temperature alarm that provides process control and helps protect against cold solder joints. ESD safe. 32TV11 features superior heat transfer and thermal recovery, a lockout keycard, low temperature alarm, and automatic shutoff after 30 min. Stations 32TU96 and 32TU97 include process control so you can select any temperature without changing the tip. LED in handpiece tells the operator the iron is hot. Include automatic shutoff and sleep mode. No calibration necessary.

Rework and Desoldering Stations—Hot Air Pencil Station 32TU94 is perfect for soldering and desoldering small surface-mount components, shrinking tubing, heating test, and other local heating operations. Ultra-light setting for air volume control. ESD safe. Desoldering Stations 32TU99 and 32TV01 have a self-contained, built-in vacuum. 32TV01 includes a conversion port. Rework Stations 32TV04, 32TV06, and 32TV07 can power any Hakko FM Series handpiece. Graphic user interface is designed for easy setup and operation. Features 3 simultaneous powered ports, self-contained pump, digital airflow indicator, manual or automatic profile for hot air, auto shutoff with sleep function, passcode protection, and security lock.

Temp. Range (F)	Watts	Includes	Mfr. Model	Item No.
Soldering Station				
120° to 899°	70 W	Cleaning Sponge, Iron Holder, Soldering Iron, Soldering Iron Tip, Tip Cleaning Wire	FX888D-23BY	**32TV10**
400° to 840°	75 W	Connecting Cable, Control Card, Heat Resistant Pad, Iron Holder, Power Cord, Sleeve Assembly(Grip), Soldering Iron, Tip Tray	FX951-66	**32TV11**
	140 W	Connecting Cable, Control Card, Green Sleeve Assembly, Heat Resistant Pad, Iron Holder, Power Cord, Soldering Iron, Tip Tray	FM203-01	**32TU96**
	140 W	(2) Connecting Cable, (2) Connector Assembly, (2) Iron Holder, Control Card, Green Sleeve Assembly, Heat Resistant Pad, Power Cord, Tip Tray, Yellow Sleeve Assembly	FM203-DP	**32TU97**
400° to 930°	140 W	(2) Iron Holder, Connecting Cable, Control Card, Green Sleeve Assembly, Heat Resistant Pad, Power Cord, Soldering Iron, Tip Tray	FM203-HD	**32TU98**
Soldering Iron				
240° to 540°F	67	Lock Key, Soldering Iron, Standard Tip	FX601-02/P	**32TV29**
Rework Station				
400° to 840°	120 W	Ceramic Paper Filter, Cleaning Drill, Connecting Cable, Control Card, Desoldering Handpiece Filter Pipe Assembly, Handle (for Gun Configuration), Heat Resistant Pad, Iron Holder with 599B, Nozzle Remover, Power Cord, Tip Tray	FM204-CP	**32TV01**
Hot Air Pencil Station				
212° to 1004°	85 W	(1) 2.0 mm Nozzle	851-2	**32TU94**
Desoldering Station				
400° to 840°	80 W	Ceramic Paper Filter, Cleaning Drill, Connecting Cable, Control Card, Desoldering Handpiece Filter Pipe Assembly, Handle (for Gun Configuration), Heat Resistant Pad, Iron Holder with 599B, Nozzle Remover, Power Cord, Tip Tray	FM205-01	**32TV02**
	120 W	Ceramic Paper Filter, Cleaning Drill, Connecting Cable, Control Card, Desoldering Handpiece Filter Pipe Assembly, Handle (for Gun Configuration), Heat Resistant Pad, Iron Holder with 599B, Nozzle Remover, Power Cord, Tip Tray	FM204-01	**32TU99**
660° to 930°	140 W	Ceramic Filter (1 Installed/2 Replacements), Cleaning Pin for ø1.0mm (0.04in.) nozzle, Iron Holder, Nozzle Wrench, ø1.0mm Standard Nozzle, Pre Filter	FR-301-03/P	**481V08**
3-Port Rework Station				
660° to 840°	410 W	Desoldering Tool, Hot Air Handpiece, Soldering Iron	FM206-DSA	**32TV04**
Desoldering Tool 660° to 840°F, Hot Tweezer 400° to 750°F, Soldering Iron 400° to 840°F	410 W	Desoldering Tool, Parallel Remover, Soldering Iron	FM206-DTS	**32TV06**
660° to 840°	410 W	Hot Air Handpiece, Parallel Remover, Soldering Iron	FM206-STA	**32TV07**

Type	Size	Mfr. Model	Item No.
Desoldering Tweezer Tip			
For Use With Mfr. No. FM-2022			
Flat Blade	0.5 mm	T16-1002	**32TV85**
	1.0 mm	T16-1003	**32TV86**
	2.0 mm	T16-1004	**32TV87**
	6.0 mm	T16-1005	**32TV88**
Pointed	0.5 mm	T16-1001	**32TV84**
For Use With Mfr. No. FM-2023			
Conical, Micro	0.2 mm	T9-I	**32TW24**
Flat Blade, Micro	1.0 mm	T9-L1	**32TW25**
	2.0 mm	T9-L2	**32TW26**
For Use With 950, FX-8804			
Flat Blade	1.0 mm	A1379	**32TV35**
	2.0 mm	A1378	**32TV34**
Nozzle			
For Use With Mfr. No. FM-2024			
Extra Long	1.0 x 2.3mm	N3-L10	**32TU88**
Round	0.6 x 1.9mm	N3-06	**32TU81**
	0.8 x 2.0mm	N3-08	**32TU82**
	1.0 x 2.2mm	N3-10	**32TU83**
	1.3mm x 2.6mm	N3-13	**32TU84**
	1.6 x 3.0mm	N3-16	**32TU85**
	2.0 x 3.4mm	N3-20	**32TU86**
	2.3 x 3.8mm	N3-23	**32TU87**
For Use With Mfr. No. FM-2029			
Hot Air, Single Jet	2.0 mm	N4-01	**32TU89**
	4.0 mm	N4-02	**32TU90**
	6.0 mm	N4-03	**32TU91**
For Use With FR-801, FR-802, FR-803B			
Hot Air, Bent Single	1.5 x 3.0mm	A1142B	**32TU46**
Hot Air, Single Jet	2.5 mm	A1124B	**32TU44**
	4.4 mm	A1130	**32TU45**
For Use With 802, 807, 808, 817			
Extra Long	1.0 x 2.3mm	A1394	**32TU48**
	1.3 x 2.3mm	A1395	**32TU49**
Round	0.6 x 1.5mm	A1487	**32TU51**
	0.8 x 1.8mm	A1002	**32TU35**
	0.8 x 2.3mm	A1004	**32TU37**
	1.0 x 2.0mm	A1003	**32TU36**
	1.0 x 2.5mm	A1005	**32TU38**
	1.3 x 3.0mm	A1006	**32TU39**
	1.6 x 3.0mm	A1007	**32TU40**
	2.3 x 4.0mm	A1396	**32TU50**
Thin Pad	1.0 x 1.4mm	A1393	**32TU47**
Soldering Tip			
For Use With Mfr. No. FM-2027			
Bent Chisel	0.8mm x 3.5mm x 12mm	T15-JD08	**32TV70**
	1.4mm x 6mm x 7mm	T15-JD14	**32TV71**
	1.6mm x 6mm x 4.5mm	T15-JD16	**32TV72**
Bent Conical	0.2mm x 1.6mm x 7.9mm	T15-JS02	**32TV74**
	0.2mm x 3.5mm x 12mm	T15-J02	**32TV69**
	0.2mm x 7.5mm x 9.3mm	T15-JL02	**32TV73**

Type	Size	Mfr. Model	Item No.
Bevel	0.6mm x 14mm	T15-SBC04	**32TV82**
	1mm x 11.5mm	T15-BC1	**32TV43**
	1mm x 11.5mm	T15-BCF1	**32TV49**
	1mm x 12mm	T15-C1	**32TV51**
	1.2mm x 15mm	T15-BC12	**32TV44**
	1.5mm x 17mm	T15-BC15	**32TV45**
	2mm x 11.5mm	T15-BC2	**32TV46**
	2mm x 19mm	T15-CF2	**32TV53**
	2.8mm x 17.6mm	T15-BC28	**32TV47**
	3mm x 10mm	T15-BC3	**32TV48**
	3mm x 19.5mm	T15-CF3	**32TV54**
	4mm x 11.5mm	T15-C4	**32TV52**
Chisel	0.8mm x 9.5mm	T15-D08	**32TV55**
	1.2mm x 10mm	T15-D12	**32TV56**
	1.5mm x 3mm x 19mm	T15-1605	**32TV40**
	1.5mm x 17mm	T15-1603	**32TV39**
	1.6mm x 10mm	T15-D16	**32TV57**
	2.0mm x 5mm	T15-D2	**32TV58**
	2.4mm x 10mm	T15-D24	**32TV59**
	3.2mm x 5mm	T15-D32	**32TV60**
	3.2mm x 10mm	T15-DL32	**32TV63**
	4.0mm x 7.5mm	T15-D4	**32TV61**
	4.0mm x 22mm	T15-DL4	**32TV64**
	5.2mm x 8mm	T15-D52	**32TV62**
	5.2mm x 12mm	T15-DL52	**32TV65**
Conical	0.15mm x 13.5mm	T15-ILS	**32TV68**
	0.2mm x 7.5mm	T15-B	**32TV41**
	0.2mm x 9.5mm	T15-I	**32TV66**
	0.2mm x 12.7mm	T15-IL	**32TV67**
	0.2mm x 14mm	T15-SB02	**32TV79**
	0.2mm x 15mm	T15-BLL	**32TV50**
	0.3mm x 16.5mm	T15-SB03	**32TV80**
	0.4mm x 14mm	T15-SBS04	**32TV83**
	0.5mm x 10mm	T15-B2	**32TV42**
	0.8mm x 10.5mm	T15-SB08	**32TV81**
Flat Blade	10.4 mm	T15-1401	**32TV36**
	15.7 mm	T15-1402	**32TV37**
	21.2 mm	T15-1403	**32TV38**
Knife Blade	3mm x 11mm	T15-KU	**32TV78**
	4.7mm x 11mm	T15-KL	**32TV77**
	4.7mm x 15mm	T15-K	**32TV75**
	4.7mm x 17mm	T15-KF	**32TV76**
For Use With Mfr. No. FM-2030			
Chisel, Heavy Duty	4.5 mm	T22-D45	**32TW22**
For Use With C1148B, FX-8801			
Bent Conical	0.2mm x 4mm x 10.5mm	T18-BR02	**32TV94**
Chisel	0.8mm x 14.5mm	T18-D08	**32TV99**
	1.2mm x 14.5mm	T18-D12	**32TW01**
	1.2mm x 22.5mm	T18-DL12	**32TW05**
	1.6mm x 14.5mm	T18-D16	**32TW02**
	2.0mm x 22.5mm	T18-DL2	**32TW06**
	2.4mm x 14.5mm	T18-D24	**32TW03**
	3.2mm x 14.5mm	T18-D32	**32TW04**
	3.2mm x 22.5mm	T18-DL32	**32TW07**
	5.2mm x 18mm	T18-S3	**32TW11**
Conical	0.5mm x 14.5mm	T18-B	**32TV92**
Knife Blade	5.0mm x 14mm	T18-K	**32TW10**

1UNG1

1UNF4

481D58

481D59

483N57

5ZHA7

5ZHA8

Type	Size	Brand	Mfr. Model	Item No.
Soldering Tweezers				
For Use With Mfr. No. WMRTMS				
Micro	0.0313 in	Weller	T0054465799N	**20UY21**
	0.2344 in	Weller	T0054465999N	**20UY23**
Soldering Tips				
For Use With Mfr. No. WMRPMS				
Needle	0.4 mm	Weller	T0054461599N	**20UX84**
Round	0.4 mm	Weller	T0054460173N	**20UX82**
RT5MS Needle	0.8 mm	Weller	T0054461999N	**20UX87**
RT6MS Needle	1.2 mm	Weller	T0054462099N	**20UX88**
RT7MS Needle	2.2 mm	Weller	T0054462199N	**20UX89**
For Use With Mfr. No. WP120				
Chisel	0.8 mm	Weller	T0054471399	**20UX74**
	3.2 mm	Weller	T0054471099	**20UX71**
Long Conical	1 mm	Weller	T0054471499	**20UX75**
Round, Sloped	1.6 mm	Weller	T0054470899	**20UX70**
Round Sloped	1.2 mm	Weller	T0054471899	**20UX77**
For Use With Mfr. No. WXP65				
Chisel	2.4 mm	Weller	T0054485799	**20UY07**
For Use With PES51, WES51, WESD51				
Conical	0.63 in	Weller	ETP	**1UNG8**
Long Conical	0.015 in	Weller	TETS	**1UNF8**
	0.015 in	Weller	ETO	**1UNF9**
Screwdriver	0.63 in	Weller	ETH	**1UNG2**
	0.63 in	Weller	ETA	**1UNG7**
	0.63 in	Weller	ETB	**1UNG1**
For Use With SP40L, WLC100				
Screwdriver	0.1875 in	Weller	TST4	**3JDN7**
	0.0313 in	Weller	TST6	**3JDN9**
For Use With WD1000M, WD2000M, WMRS, WSM1, WSM1C				
Bent Chisel	0.032 in	Weller	T0054460599N	**6KCL4**
Chisel	0.052 in	Weller	T0054460399N	**6KCL2**
	0.062 in	Weller	T0054460499N	**6KCL3**
	0.088 in	Weller	T0054460899N	**6KCL7**
	0.032 in	Weller	T0054460999N	**6KCL8**
	0.144 in	Weller	T0054461199N	**6KCN0**
Fine Point	0.032 in	Weller	T0054460299N	**6KCL1**
Gull Wing	0.048 in	Weller	T0054461099N	**6KCL9**
Knife	0.088 in	Weller	T0054460799N	**6KCL6**
Round Slope	0.048 in	Weller	T0054460699N	**6KCL5**
For Use With WD1002, WSP80				
Chisel	0.38 in	Weller	T0054444099	**1UNG5**
	0.43 in	Weller	T0054443799	**1UNF7**
	0.43 in	Weller	T0054440599	**1UNF4**
	0.43 in	Weller	T0054440799	**1UNF5**
	0.73	Weller	T0054443899	**1UNF6**
Round	0.59 in	Weller	T0054443699	**1UNG6**
For Use With WTCPT				
Conical	0.0313 in	Weller	PTP7	**3JDR6**
Narrow	0.0625 in	Weller	PTR7	**3JDR8**
Screwdriver	0.0625 in	Weller	PTA7	**3JDP5**
	0.0938 in	Weller	TPTB7	**3JDP7**
	0.125 in	Weller	PTC7	**3JDP9**
	0.1875 in	Weller	PTD7	**3JDR2**
	0.0313 in	Weller	PTH7	**3JDR4**
Accessories				
Replacement Pencil Iron, For Use With Mfr. No. WD1 and WD2 Soldering Stations		Weller	T0052918099N	**20UX58**

Type	Temp. Range (F)	Watts	Brand	Mfr. Model	Item No.
Digital Soldering Stations					
Digital	120° to 1100°	900 W	Weller	WTHA1N	**481D58**
	150° to 850°	95 W	Weller	WT1013N	**481D59**
	200° to 850°	70 W	Weller	WE1010NA	**483N57**
Analog Soldering Stations					
Professional-Grade	1100°F	60	American Beauty	V36GL3	**5ZHA7**
	1000°F	40	American Beauty	V36GM3	**5ZHA8**
	800°F	20	American Beauty	V36GS3	**5ZHA9**

Weller® American Beauty

Digital and Analog Soldering/ Desoldering Stations

- ESD-safe, protects sensitive components
- 120V, 60 Hz

DIGITAL SOLDERING STATIONS

481D58 provides accurate adjustment of hot air through brushless turbine. Designed with up to 5 presets that can be set to run automatically. 481D59 features front panel power switch, setback, lockout, temperature window, standby mode, auto shutoff, and LCD display. 483N57 has standby mode, auto shutoff, intuitive navigation, password lockout, LCD, and lightweight soldering pencil.

ANALOG SOLDERING

Professional Grade—Heating elements are wound around steel spools, creating large reservoirs of heat and resulting in the ability to run longer seams, solder large joints, and a shorter thermal recovery time.

Soldering Irons

These electric soldering irons are corded and plug into a standard wall outlet or compatible soldering station for their power supply. For use in light- and heavy-duty soldering applications.

Electric Soldering Irons—Operate on low wattages and output temperatures and are often used for soldering circuit boards or light electrical jobs requiring minimal heat.

Electric Soldering Irons with LED Lights—Have LED lights that provide a bright and focused illumination on the solder joint. For use on circuit boards or electrical jobs that require minimal heat.

Electric Soldering Irons with Station Connectors—Allow greater control over set-temperature memory, lockout, and overall temperature. For use with compatible pencil-style soldering irons.

High Output Electric Soldering Irons—Operate on high wattages and provide high-temperature output. Typical applications include copper wire connections, cable splicing, sheet metal, and copper gutters.

Note: For soldering stations, see page 364. For all replacement tips and parts, call 1-800-GRAINGER (472-4643); or go to Grainger.com and search for "soldering iron replacement tips".

Max. Power Consumption	Operating Temp. Range	Tip Type	Time to Maximum Temperature	Temperature Adjustment	Brand	Item No.
Electric Soldering Irons, Handpiece Only						
50 — 100 W	600 °F to 800 °F	Screwdriver	110 sec	—	Weller	**5JH79**
50 — 100 W	1,050 °F	Screwdriver	5 min	Fixed	American Beauty	**19YP65**
Less than 50 W	800 °F	Screwdriver	—	—	Weller	**3KMT9**
Less than 50 W	850 °F	Screwdriver	—	—	Weller	**4Z766**
Less than 50 W	900 °F	Chisel	5 min	Fixed	American Beauty	**19YP64**
Electric Soldering Irons with LED Lights, Handpiece Only						
50 — 100 W	880 °F	Chisel	1 min	—	Weller	**787C31**
50 — 100 W	880 °F	Chisel	1 min	—	Weller	**787C32**
Less than 50 W	750 °F to 752 °F	Conical	1 min	—	Weller	**787C30**
Electric Soldering Irons with Station Connectors, Handpiece Only						
50 — 100 W	120 °F to 899 °F	Chisel	30 sec	Adjustable	Hakko	**32TV30** *
50 — 100 W	150 °F to 850 °F	Chisel	—	—	Weller	**24AC49** *
50 — 100 W	200 °F to 850 °F	Chisel	7 sec	—	Weller	**39WE09**
50 — 100 W	350 °F to 850 °F	Chisel	—	—	Weller	**1UNE4**
Less than 50 W	350 °F to 850 °F	Needle	—	—	Weller	**24AC60**
High Output Electric Soldering Irons, Handpiece Only						
50 — 100 W	600 °F to 800 °F	Screwdriver	110 sec	—	Weller	**5JH78**
Greater than 100 W	900 °F	Chisel	—	—	Weller	**3KMT8**
Greater than 100 W	1,000 °F	Diamond	5 min	Fixed	American Beauty	**19YP66**

Max. Power Consumption	Operating Temp. Range	Tip Type	Time to Maximum Temperature	Temperature Adjustment	Includes	Brand	Item No.
Electric Soldering Irons with LED Lights, Kit							
50 — 100 W	880 °F to 900 °F	Chisel	1 min	—	LED Halo Ring	Weller	**787C34**
50 — 100 W	880 °F to 900 °F	Chisel	1 min	—	LED Halo Ring	Weller	**787C35**
Less than 50 W	750 °F	Conical	1 min	—	LED Halo Ring	Weller	**787C33**
Electric Soldering Irons with Station Connectors, Kit							
50 — 100 W	392 °F to 842 °F	Not Included	30 sec	Adjustable	FM-2027 Handpiece, Heat Pad and Sleep Cable, Iron Holder, Tip Cleaner	Hakko	**32TU66** *
Greater than 100 W	150 °F to 850 °F	Chisel	14 sec	—	Safety Rest With Dry Cleaner, Soldering Tip Chisel	Weller	**20UX78** *
Greater than 100 W	392 °F to 932 °C	—	30 sec	Adjustable	Connecting Cable, FM-2030 Handpiece, Handpiece Holder With Sleep Function, Heat Resistant Pad	Hakko	**32TU68** *
Less than 50 W	150 °F to 850 °F	Chisel	5 sec	—	Rt Micro Soldering Tip, Safety Rest With Dry Cleaner	Weller	**20UX95**
Less than 50 W	400 °F to 840 °F	Not Included	30 sec	Adjustable	Heat Resistant Pad, Iron Holder With Sponge, Micro Soldering Iron, Sleep Connecting Cable	Hakko	**45LR56** *

Weller

Soldering Guns

Trigger selection switch delivers high or low temperature output. Built-in lamp. 6-ft., 2-wire cord. Kits include gun with pretinned copper tip, 2 extra untinned copper tips, flux brush, soldering aid tool, coil of 40/60 rosin-core solder, and blow-molded carrying case. 4Z764 includes coil of low-lead solder.

Description	Tip	Watts	Features	Mfr. Model	Item No.
Soldering Guns					
Soldering Gun Kit	—	200	2-Wire Cord, Dual-Heat Wattage Gun, Fingertip Trigger, Twin Lights	D550PK	**4Z764**
Soldering Gun	Standard	300/200	Dual-Heat Wattage Gun, Fingertip Trigger Selects High (1st Trigger Position) or Low Output (2nd Trigger Position), Twin Lights Illuminate Work	D650	**5VZZ2**
Soldering Gun Kit	Chisel Style	100 to 140	3 Built in LEDs, 6-Second Heat, On-Board Wrench Storage in Handle, Two Trigger Positions	9400PKS	**458T18**
Gun Tips					
For Use With 4Z764, 5VZZ2				7250W	**31LV96**
For Use With 4Z764				6150	**31LW10**

Weller

Modular Soldering Irons

Preassembled irons are a combination of the most popular modular components, and include handle, heater, and tip. For a customized iron, combine 6A907 soldering handle with choice of heating element and thread-on tip. Handle is 3-wire grounded with 4½-ft. cord and features "soft touch" acid- and flux-resistant grips. UL Listed (E21922).

Description	Watts	Temp. Rating	Mfr. Model	Item No.
Preassembled Irons				
Iron with Pencil Point Tip	23	700°F	SL325	**2AC08**
Iron with Chisel Tip	33	800°F	SL335	**2AC09**
Handle Only				
Modular Soldering Iron Handle	—	—	7500	**6A907**
¼ in Thread On Heating Elements				
Heating Element	23 W	700°F	537S	**6A908**
Heating Element	33 W	800°F	1237S	**6A909**
Heating Element	45 W	900°F	T4037S	**6A910**
Heating Element	50 W	1,000°F	37UG	**6A911**

Description	Tip Type	Tip Length	Tip Width	Mfr. Model	Item No.
¼ in Thread On Tips					
Soldering Tip	Chisel	14.22 mm	5.08 mm	PL133	**6A914**
Soldering Tip	Chisel	16.76 mm	3.3 mm	PL113	**6A913**
Soldering Tip	Chisel	16.76 mm	10.14 mm	PL350	**6A916**
Soldering Tip	Conical	11.43 mm	1.27 mm	PL100	**6A912**
Soldering Tip	Screwdriver	16.76 mm	3.3 mm	PL151	**6A915**

400H02

5EGA6

5EGA8

1UYH3

19YP70

1UYD8

1UYH9

1UYH1

Solid Wire Solder
3THF5

3THF6

All-State · American Beauty · Chemtronics · Harris

Electrical/ Electronic Solder

Contents	Wire Dia. (in.)	Application	Container Size	Std.	Brand	Item No.
Solder Bar						
0.375% Copper, 0.375% Silver, 2% Antimony, 97.25% Tin	0.250 x 0.250	Roofing, Sheet Metal	6.4 oz	RoHS Compliant	American Beauty	**36JT59**
30% Tin, 70% Lead	—	Used For Waste, Sheet Metal And Non Potable Water	1 lb	ASTM B-32	Harris	**5EGC3**
40% Lead, 60% Tin	—	Electrical, Small Connections	1 lb	ASTM B-32, J-STD-006	Harris	**5EGA6**
40% Tin, 60% Lead	—	Non Potable Water, Sheet Metal, Waste	1 lb	ASTM B-32	Harris	**5EGC2**
50% Lead, 50% Tin	—	Sheet Metal	1 lb	ASTM B-32, J-STD-006	Harris	**5EGA7**
50% Lead, 50% Tin	0.3125	Sheet Metal	0.50 lb	ASTM B-32, J-STD-006	Harris	**5EGA8**
50% Lead, 50% Tin	—	Sheet Metal	0.32 lb	ASTM B-32, J-STD-006	Harris	**5EGA9**
50% Lead, 50% Tin	—	Sheet Metal	0.43 lb	ASTM B-32, J-STD-006	Harris	**5EGC0**
50% Lead, 50% Tin	0.4375	Sheet Metal	0.50 lb	ASTM B-32, J-STD-006	Harris	**5EGC1**
50% Lead, 50% Tin	0.250 x 0.250	Roofing, Sheet Metal	8 oz	RoHS Compliant	American Beauty	**36JT60**
Solder Wire						
0.5% Copper, 3.0% Silver, 96.5% Tin	0.032	Lead-Free Soldering	6 oz	RoHS Compliant	American Beauty	**19YP69**
0.5% Copper, 3.0% Silver, 96.5% Tin, Rosin Core	0.04	Lead Free Rework and Repair, Portable SAC 305 Alloy	125 in	IPC J STD 004, RoHS Compliant	Chemtronics	**1UYD8**
3% Copper, 97% Tin	0.093	Lead-Free Soldering	4 oz	RoHS Compliant	American Beauty	**19YP70**
3% Copper, 97% Tin, Acid Core	0.125	Appliances, Motors, Speaker Wire, Wiring	1 lb	EU Reach, RoHS Compliant	Harris	**1UYK6**
3% Copper, 97% Tin, Rosin Core	0.031	Appliances, Motors, Speaker Wire, Wiring	1 lb	ASTM B-32	Harris	**1UYH9**
3% Copper, 97% Tin, Rosin Core	0.062	Appliances, Motors, Speaker Wire, Wiring	1 lb	ASTM B-32	Harris	**1UYK5**
3% Copper, 97% Tin, Rosin Core	0.1	Appliances, Motors, Speaker Wire, Wiring	1 lb	ASTM B-32	Harris	**1UYK7**
3% Copper, 97% Tin, Rosin Core	0.125	Motors, Repairs, Speaker Wires	1 lb	ASTM B-32	Harris	**1UYK8**
4% Silver, 96% Tin	0.118	Dissimilar Metal Joints, Vibration	1 lb	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**1UYG6**
4% Silver, 96% Tin	0.125	Solders Exhibit Considerably Higher Than Necessary Elongation for Sound, Dissimilar Metal Joints and Vibration Applications	8 oz	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**3THF5**
40% Lead, 60% Tin, Rosin Core	0.031	Electrical, Small Connection	1 lb	ASTM B-32, J-STD-006	Harris	**1UYH4**
40% Lead, 60% Tin, Rosin Core	0.062	Electrical, Small Connection	1 lb	ASTM B-32, J-STD-006	Harris	**1UYH3**
40% Lead, 60% Tin, Rosin Core	0.125	Electrical, Small Connection	1 lb	ASTM B-32, J-STD-006	Harris	**1UYH6**
40% Tin, 60% Lead, Acid Core	0.062	Auto Radiators, Metal Gutters, Sheet Metal, Tin Repairs	1 lb	ASTM B-32	Harris	**1UYH8**
40% Tin, 60% Lead, Rosin Core	0.062	Appliances, Motors, Speaker Wire, Wiring	1 lb	ASTM B-32	Harris	**1UYH7**
6% Silver, 94% Tin	0.118	Dissimilar Metal Joints, Vibration	1 lb	NSF 51, RoHS Compliant	Harris	**1UYH1**
Copper, Silver, Tin	0.125	Soldering	1 lb	CEPA, CERCLA/SARA Title III, CSA, EPA, EPCRA/SARA Title III, EU Regulations, NFPA 51B	All-State	**400H02**
Solder Wire & Flux Kit						
4% Silver, 96% Tin	0.125	Low Temperature Solder	—	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**3THF6** *

**** Includes 1/2 oz. solder and 1/2 oz. flux.***

5ZHE9

5ZHF0

32TV28

19YP58

5ZHF1

5ZHA6

Solder Pots

American Beauty · Hakko

American Beauty—For lead-free soldering. Chemically stable, cast-iron crucibles are resistant to corrosion. Cartridge heating elements are inserted directly into the crucible. Internal removable dross skimmer increases safety and maintains solder purity and temperature. Use for pretinning wires, connectors, and other assembly components. 110-120VAC.

Hakko—Analog pot 32TV27 features analog functionality and a rugged ceramic heating element. Lead-free compatible and can accommodate two pot sizes. Digital pot 32TV28 is used for dip soldering and tinning the ends of wire leads. Features four different heating programs and convenient timer, which is useful where reliable control of solder temperature is essential.

Description	Watts	Brand	Mfr. Model	Item No.
Solder Pots				
1 lb, Lead-Free	320	American Beauty	300	**5ZHE9**
2.5 lb, Lead-Free	600	American Beauty	600	**5ZHF0**
Analog Lead-Free	200	Hakko	FX300-03	**32TV27**
Digital Lead-Free	290	Hakko	FX301B-03	**32TV28**
Electric Lead-Free	135	American Beauty	MP-9	**19YP58**
Accessories				
Replacement Thermostat	—	American Beauty	8055	**5ZHF3**
Solder Pot Heating Element, 160 W Watts, Fits 5ZHE9	160 W	American Beauty	9301-2X	**5ZHF1**
Solder Pot Heating Element, 300 W Watts, Fits 5ZHF0	300 W	American Beauty	9300-2X	**5ZHF2**
Solder Pot Heating Element, Fits 19YP58	—	American Beauty	MP-9H	**49W653**
Voltage Control Unit	—	American Beauty	V3700	**5ZHA6**

Label Printer Information

Label printers create messages and display information on labels and tags to convey safety information and identify equipment and supplies. Labels, ribbons, and ink fit into a compatible printer. Accessories keep printers in good working order.

PRODUCT TYPE:

Handheld label printers do not require a connection to a computer and can be carried to the jobsite.

Portable label printers are larger than handheld printers and are designed to be set on a work surface when printing. They do not require a connection to a computer and can be carried to the jobsite.

Desktop label and tag printers will produce a wider range of label and tag sizes than handheld and portable label printers and are often used for high-volume printing.

MODE OF OPERATION:

PC Connected—These printers require a connection to a computer. They often use software that utilizes templates to print labels with a consistent appearance.

Standalone—These label printers have a keyboard or keypad for entering information. They don't require a connection to a computer to print labels.

BRADY

M210 Handheld Label Printers and Supplies

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone connectivity
- 203 dpi printer head resolution
- Min./Max. font size 6 to 40 pt.
- Min. Label width is ¼"; Max. Label width is ¾"
- Max. print speed of 0.39 in/sec
- Prints up to 100 labels per day

Monocolor LCD screen and ABC keypad. For use with continuous tapes and die cut labels. Has a single-hand, manual operation cutter. **793EU0** offers general, slide, tube, vial built-in templates for healthcare, hospital, and laboratory applications. **793ET9** and **793EU1** have flags, patch panel, terminal block, and wire wrap built in templates. For use in data and telecommunications labeling, electrical labeling, general identification, lean and 5S labeling, warehouse marking, and wire and cable applications.

793EU0

793ET9

Includes	Printer Series	Item No.
Label Printers		
(1) M21 Series Polypropylene Laboratory Labels (M21-750-7425), (1) Quick Start Guide, (1) M210-LAB Label Printer (M210-LAB)	M210-Lab	**793EU0**
(1) M21 Series Nylon Cloth Patch Panel and Wire and Cable Labels (M21-750-499), (1) Quick Start Guide, (1)M210 Label Printer (M210)	M210	**793ET9**
Label Printer Kit		
(1) AC Adapter/Battery Charger (M210-AC), (1) Hard Case (M210-HC), (1) Li-ion Rechargeable Battery (M210-BATTERY), (1) M21 Series Nylon Cloth Patch Panel and Wire and Cable Labels (M21-750-499), (1) Quick Start Guide, (1) Replacement Power Cord - North America, (1)M210 Label Printer (M210)	M210	**793EU1**

Description	Item No.
Accessories	
AC Adapter/Battery Charger	**4YJZ6**
Rechargeable Li-Ion Battery Pack	**793Z58**
Multifunctional Accessory—Includes a Belt Loop, Built-In Flashlight, and Wrist Strap	**4TGY7**

Label Color	Label Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges—Heat-Shrinkable				
White	Polyolefin/ Matte	⅛ in	7 ft	**3PXV5**
White	Polyolefin/ Matte	11/32 in	7 ft	**3PXV6**
White	Polyolefin/ Matte	¼ in	7 ft	**3PXV7**
White	Polyolefin/ Matte	129/200 in	7 ft	**3PXV8**
Continuous Label Roll Cartridges with Aggressive Permanent Adhesive—Autoclavable				
Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	⅜ in	21 ft	**E7622**
Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	½ in	21 ft	**E7624**
Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	¾ in	21 ft	**E7626**
Clear	Polyester/ Gloss	⅜ in	21 ft	**3PXU5**
Clear	Polyester/ Gloss	½ in	21 ft	**3PXU6**
Clear	Polyester/ Gloss	¾ in	21 ft	**3PXU7**
Continuous Label Roll Cartridges with Aggressive Permanent Adhesive—Halogen Free				
White	Polyester/ Gloss	⅜ in	21 ft	**3PXW6**
White	Polyester/ Gloss	½ in	21 ft	**3PXW7**
White	Polyester/ Gloss	¾ in	21 ft	**3PXW8**
Continuous Label Roll Cartridges with Permanent Adhesive				
White	Vinyl/Matte	¾ in	14 ft	**3PXW9**
White	Vinyl/Matte	1 in	14 ft	**3PXX1**
White	Vinyl/Matte	1 ¼ in	14 ft	**3PXX2**
White	Vinyl/Matte	1 ½ in	14 ft	**3PXX3**
Continuous Label Roll Cartridges with Permanent Adhesive—Autoclavable, Cryogenic				
Black/White	Nylon/ Matte	⅜ in	16 ft	**3PXW3**
White	Nylon/ Matte	⅜ in	16 ft	**4YJZ7**
Black/White	Nylon/ Matte	½ in	16 ft	**3PXW4**
White	Nylon/ Matte	½ in	16 ft	**4YJZ8**
Black/White	Nylon/ Matte	¾ in	16 ft	**3PXW5**
White	Polyester/ Matte	⅜ in	21 ft	**3PXY4**
White	Polyester/ Matte	½ in	21 ft	**3PXY5**
White	Polyester/ Matte	¾ in	21 ft	**3PXY7**
Continuous Label Roll Cartridges with Permanent Adhesive—Autoclavable, Cryogenic, Halogen Free				
White	Polyester/ Gloss	⅜ in	21 ft	**3PXY1**
White	Polyester/ Gloss	½ in	21 ft	**3PXY2**
White	Polyester/ Gloss	¾ in	21 ft	**3PXY3**

P-Touch EDGE Handheld Label Printers and Supplies

brother At your side.

- Single color printing capability
- Use thermal transfer print technology
- 180 dpi printer head resolution

For industrial applications. For use with continuous labels. They feature QWERTY-style keyboard and LCD screen. **22KD90** and **30RR07** are barcode capable.

Mode of Operation	Cutter Type	Includes	Max. Print Speed	Printer Series	Item No.
Printers					
Standalone	Manual	Carrying Case, Wrist Strap	0.8 in/sec	PTE110	**403T28**
Standalone	Manual	Hard Case	0.8 in/sec	PTE300	**22KD90**
PC Connected, Standalone	Automatic	12 mm in x 8m Black on White Flexible ID Laminated TZe Tape, Wrist Strap, Carrying Case, USB Cable	1.2 in/sec	PTE500	**30RR07**

Label Color	Label Material/ Finish	Roll Width	Roll Length	Item No.	Pkg. Qty.
Continuous Label Roll Cartridges					
Clear	Thermal Film/Gloss	23/64 in	26 13/64 ft	**23M313**	5
Clear	Polyester/ Gloss	15/32 in	26 13/64 ft	**23M314**	5
Clear	Polyester/ Gloss	45/64 in	26 13/64 ft	**23M315**	5
Clear	Polyester/ Gloss	15/16 in	26 13/64 ft	**23M316**	5
White	Polyester/ Gloss	15/64 in	26 13/64 ft	**23M317**	5
White	Polyester/ Gloss	23/64 in	26 13/64 ft	**23M318**	5
Yellow	Polyester/ Gloss	23/64 in	26 13/64 ft	**23M323**	5
Silver	Polyester/ Gloss	45/64 in	26 13/64 ft	**23M328**	5
Silver	Polyester/ Gloss	15/16 in	26 13/64 ft	**23M329**	5
Continuous Label Roll Cartridges with Permanent Adhesive					
White	Polyester/ Gloss	23/64 in	26 13/64 ft	**403T29**	1
Continuous Label Roll Cartridges with Removable Adhesive					
Clear	PET/Gloss	23/64 in	26 13/64 ft	**13C523**	1
Clear	PET/Gloss	15/32 in	26 13/64 ft	**13C525**	1
Clear	PET/Gloss	45/64 in	26 13/64 ft	**13C526**	1
Clear	PET/Gloss	15/16 in	26 13/64 ft	**13C527**	1
White	PET/Gloss	15/64 in	26 13/64 ft	**13C528**	1
Silver	PET/Gloss	45/64 in	26 13/64 ft	**13C542**	1
Silver	PET/Gloss	15/16 in	26 13/64 ft	**13C543**	1

403T28

30RR07

DYMO Rhino Industrial Labeling Tools

XTL Handheld Label Printers and Supplies

21HN26

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min. Label width is ¼"
- Min./Max. 2 to 26 lines of print

Quick setup time with 1-touch hot keys. Large color TFT backlit, touchscreen display. Prints durable labels including continuous length tape, laminated wire/cable wraps, heat-shrink tubes, and presized labels. Preloaded templates ensure perfect formatting. Life-like onscreen print preview shows how labels will look when applied. Built-in label applications make getting started from home screen easy. Designed with high-impact plastic. **21HN25** (13 fonts) has a manual cutter and includes a carrying case. **21HN26** (15 fonts) has an automatic cutter plus includes a quick reference guide and tape cartridge.

Application	Max. Label W	Max. Print Speed	Printer Series	Item No.
Label Printers				
Cable and Wire, Materials Management	1 in	1.25 in/sec	XTL300	**21HN25**
Asset Tracking, Barcode Labeling, Facilities and MRO, Facility Safety ID, Materials Management	2 in	1.1 in/sec	XTL500	**21HN26**

Label Color	Label Material/Finish	Roll Length	Roll Width ½ in Item No.	2 in Item No.	¾ in Item No.	1 in Item No.	1 ½ in Item No.
Continuous Label Roll Cartridges with Permanent Adhesive—Halogen Free							
Clear	Vinyl/Gloss	23 ft	**40W064**	**40W068**	—	—	—
White	Vinyl/Gloss	23 ft	**40W074**	**40W078**	—	—	—
White	Vinyl/Gloss	24 19/32 ft	—	—	**40W075**	—	—
White	Vinyl/Gloss	29 51/64 ft	—	—	—	**40W076**	—
Red	Vinyl/Gloss	23 ft	**40W084**	**40W088**	—	**40W086**	—
Yellow	Vinyl/Gloss	23 ft	**40W094**	—	**40W095**	**40W096**	**40W097**
Yellow	Vinyl/Gloss	23 ft	—	**40W098**	—	—	—
Black	Vinyl/Gloss	23 ft	**40W120**	—	—	—	—

BRADY

BMP61 Handheld Label Printers and Supplies

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC printer connectivity
- 300 dpi printer head resolution
- Min./Max. font size 4 to 170 pt.
- Min. Label width is ¼"; Max. Label width is 2"
- Max. print speed of 1.33 in/sec
- Prints up to 750 labels per day
- Manual cutter

Printers offer a color LCD touchscreen and QWERTY keyboard input method. For use with continuous tapes and die cut labels. Use for asset tracking, cable and wire, circuit board labeling, data and telecommunications, electrical, general ID applications. Built-in label templates are arrows, CLP/GHS, datacomm, electrical, exit, fire safety, first aid, Greek, home electrical, HSID, international, laboratory, mandatory, miscellaneous, packaging, personal protective equipment, prohibition, public info, safety, warning, WHMIS. Printers feature auto shut off/power conserve, and recharge in 3 hours. Include (1) BMP61 or BMP61-W with WiFi, (1) Free Brady WorkStation Basic Design Suite Download, (1) Glossy White Polyester Asset and Equipment Tracking Labels, (1) Halogen Free Ribbon , (1) Hard Case, (1) Product CD, (1) USB Cord, and (1) Utility Strap. **Continuous roll 4VT35** is halogen free. Labels are polyolefin material with a matte finish. **52AZ37 media adapter** is designed to let you use label cartridges from other Brady labeling systems, including older or discontinued models, with the BMP61 label printer. The label roll adapter can be used with BMP71 label tapes on page 371.

Description	Printer Connectivity	Item No.
Label Printers		
Handheld Printer	USB	**52HJ91**
Handheld Printer	USB, Wi-Fi	**52HJ90**
Accessories		
Hardsided Printer Case		**52HJ92**
Magnet Accessory		**52HJ93**
Battery Cover		**43XL16**
Cutter Blade		**43XL17**
Carrying Strap		**43XL18**
Media Adapter		**52AZ37**

Ribbon Color	Size (WxL)	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbon			
Black	2 in x 75 ft	Wax/Resin	**52HJ94**
Black	2 in x 75 ft	Resin	**52HJ95**
Black	2 in x 75 ft	Resin	**52HJ96**
White	2 in x 75 ft	Resin	**52HJ97**
Blue	2 in x 75 ft	Resin	**52HK11**
Red	2 in x 75 ft	Resin	**52HK12**
Black	2 in x 75 ft	Resin	**52HK13**
Black	2 in x 75 ft	Resin	**52HK14**
White	2 in x 75 ft	Wax/Resin	**52HK15**
White	2 in x 75 ft	Resin	**52HK16**

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Aggressive Permanent Adhesive				
White	Polyester/Gloss	⅜ in	50 ft	**3PYK3**
White	Polyester/Gloss	½ in	50 ft	**4VT34**
White	Polyester/Gloss	1 in	50 ft	**3PYK2**
White	Polyester/Gloss	1 29/32 in	50 ft	**3PYK5**
White	Polyester/Gloss	½ in	50 ft	**4VT35**
White	Polyester/Gloss	½ in	50 ft	**3PYF5**
White	Polyester/Gloss	1 in	50 ft	**3PYC4**
White	Polyester/Gloss	1 29/32 in	50 ft	**3PYE2**
White	Polyester/Gloss	1 5/16 in	50 ft	**3PYD1**
White	Polyester/Gloss	¼ in	50 ft	**42X320**
Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	½ in	50 ft	**H4312**
Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	1 in	50 ft	**H4313**
Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	1 29/32 in	50 ft	**H4314**
Continuous Label Rolls with Permanent Adhesive				
Gray	Metallized Polyester/Matte	½ in	50 ft	**4VT36**
Continuous Label Rolls with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	⅜ in	30 ft	**4VT45**
White	Vinyl/Semi-Gloss	¼ in	30 ft	**4VT43**
White	Vinyl/Semi-Gloss	½ in	30 ft	**3PYJ7**

▶CHOOSE: Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls in Box with Aggressive Permanent Adhesive					
Black, Green, Red, White, Yellow	Polyester/ Gloss	½ in	1 1/16 in	200	**H4318**
Black, Green, Red, White, Yellow	Polyester/ Gloss	1½ in	1 13/64 in	100	**H4315**
Black, Green, Red, White, Yellow	Polyester/ Gloss	1 51/64 in	1 51/64 in	100	**H4317**
Black, Green, Red, White, Yellow	Polyester/ Gloss	1 29/32 in	1 13/64 in	100	**H4316**
Black, Green, Red, White, Yellow	Polyester/ Gloss	2 in	1 in	100	**H4319**
Black, Green, White, Yellow	Polyester/ Gloss	3 in	1 in	50	**H4321**
Red	Polyester/ Gloss	3 in	1 in	50	**12K642**
Black, Green, Red, White, Yellow	Polyester/ Gloss	4 in	1 in	50	**H4320**
Precut Label Rolls with Aggressive Permanent Adhesive					
White	Polyester/ Gloss	⅜ in	1 in	500	**3PYF1**
White	Polyester/ Gloss	½ in	1 in	500	**3PYC6**
White	Polyester/ Gloss	½ in	1½ in	500	**3PYE4**
White	Polyester/ Gloss	¾ in	1½ in	250	**3PYD7**
White	Polyester/ Gloss	1 in	1 in	250	**3PYD9**
White	Polyester/ Gloss	1 in	4 in	100	**3PYF7**
White	Polyester/ Gloss	1 in	1½ in	250	**3PYF3**
White	Polyester/ Gloss	1 in	1⅜ in	250	**3PYD3**
White	Polyester/ Gloss	2 in	1 in	100	**3PYC8**
White	Polyester/ Gloss	2 in	½ in	100	**3PYE6**
White	Polyester/ Gloss	4 in	¾ in	50	**3PYD5**
White	Polyester/ Gloss	8 in	¾ in	50	**3PYE8**
Precut Label Rolls with Aggressive Permanent Adhesive—Halogen Free					
White	Polyester/ Gloss	⅛ in	1½ in	750	**4VR66**
White	Polyester/ Gloss	3/16 in	1 in	750	**4VR23**
White	Polyester/ Gloss	13/64 in	½ in	750	**4VT22**
White	Polyester/ Gloss	13/64 in	21/32 in	750	**3PYH5**
White	Polyester/ Gloss	¼ in	¼ in	750	**4VR04**
White	Polyester/ Gloss	¼ in	2 in	100	**4VR49**
White	Polyester/ Gloss	¼ in	¾ in	750	**4VR10**
White	Polyester/ Gloss	¼ in	29/32 in	750	**4VR20**
White	Polyester/ Gloss	¼ in	1¼ in	750	**4VR62**
White	Polyester/ Gloss	¼ in	1½ in	750	**4VR71**
White	Polyester/ Gloss	17/64 in	½ in	750	**4VT24**
White	Polyester/ Gloss	17/64 in	1 in	750	**4VR27**
White	Polyester/ Gloss	⅜ in	⅜ in	500	**4VR86**
White	Polyester/ Gloss	⅜ in	1 in	500	**4VR30**
White	Polyester/ Gloss	13/32 in	13/32 in	500	**3PYJ2**
White	Polyester/ Gloss	½ in	½ in	500	**3PYH6**
White	Polyester/ Gloss	½ in	1 in	500	**4VR36**
White	Polyester/ Gloss	½ in	1½ in	500	**4VR81**
White	Polyester/ Gloss	1 in	1 in	250	**4VR46**
White	Polyester/ Gloss	1 in	3 in	100	**3PYH9**
White	Polyester/ Gloss	1 in	1½ in	250	**3PYH7**
White	Polyester/ Gloss	1½ in	1½ in	250	**4VT08**
White	Polyester/ Gloss	1 29/32 in	4 in	100	**3PYJ1**
White	Polyester/ Gloss	2 in	1 in	100	**4VR54**
White	Polyester/ Gloss	2¾ in	1¼ in	100	**3PYH8**
Precut Label Rolls with Permanent Adhesive					
White	Polyester/ Gloss	13/64 in	½ in	750	**3PYK7**
Gray	Polyester/ Matte	17/64 in	1 in	750	**3PYN3**
White	Polyester/ Gloss	⅜ in	1 in	500	**3PYK8**
White	Polyester/ Gloss	⅜ in	1½ in	250	**4VR91**
White	Polyester/ Gloss	⅜ in	½ in	500	**3PYK4**
White	Polyester/ Gloss	⅜ in	1½ in	500	**3PYK6**
White	Polyester/ Gloss	½ in	½ in	500	**3PYL3**
White	Polyester/ Gloss	½ in	1 in	500	**3PYL4**
White	Polyester/ Gloss	½ in	1½ in	500	**4VR80**
Gray	Polyester/ Matte	½ in	1 in	500	**3PYN1**
Gray	Polyester/ Matte	½ in	1½ in	500	**4VR83**
White	Polyester/ Gloss	19/32 in	⅜ in	750	**3PYL2**
White	Vinyl/ Matte	¾ in	¼ in	750	**4VR12**
White	Vinyl/ Matte	¾ in	½ in	500	**4VR17**
White	Vinyl/ Matte	¾ in	1 in	250	**3PXZ6**
White	Vinyl/ Matte	¾ in	1½ in	250	**3LKG5**
White	Polyester/ Matte	¾ in	1½ in	250	**30EA79**
White	Vinyl/ Matte	1 in	¾ in	250	**4VR42**
White	Vinyl/ Matte	1 in	1½ in	250	**3PYC2**
Blue, Green, Orange, Red, White, Yellow	Vinyl/ Matte	1 in	1 in	250	**H4307**
White	Vinyl/ Matte	1 in	½ in	500	**4VR38**
White	Vinyl/ Matte	1 in	1¾ in	250	**42X471**
White	Polyester/ Gloss	1 in	1 in	250	**4VR45**
White	Polyester/ Gloss	1 in	3 in	100	**3PYL1**
Gray	Polyester/ Matte	1 in	3 in	100	**3PYN5**
White	Vinyl/ Matte	1¼ in	½ in	250	**3PYA9**
White	Vinyl/ Matte	1¼ in	1 in	250	**3PXZ4**
White	Vinyl/ Matte	1½ in	½ in	500	**4VR82**
White	Vinyl/ Matte	1½ in	1½ in	250	**4VT09**
White	Vinyl/ Matte	1½ in	1¾ in	250	**3PYA7**
White	Vinyl/ Matte	1½ in	2 in	100	**3PYA3**
Blue, Green, Orange, Red, White, Yellow	Vinyl/ Matte	1½ in	1 in	250	**H4310**
Blue, Green, Orange, Red, White, Yellow	Vinyl/ Matte	1½ in	¾ in	250	**H4309**
White	Polyester/ Gloss	1 29/32 in	3 in	100	**3PYK9**
White	Polyester/ Gloss	1 29/32 in	4 in	100	**3PYL5**
Gray	Polyester/ Matte	1 29/32 in	3 in	100	**3PYN6**
Gray	Polyester/ Matte	1 29/32 in	4 in	100	**3PYN7**
White	Polyester/ Gloss	2 in	1 in	100	**4VR53**
Gray	Polyester/ Matte	2 in	1 in	100	**3PYN2**
White	Vinyl/ Matte	2½ in	1½ in	100	**3PYA1**
Blue, Green, Orange, Red, White, Yellow	Vinyl/ Matte	2½ in	1 in	100	**H4308**
White	Vinyl/ Matte	2⅝ in	1 in	100	**3PYA5**
Gray	Polyester/ Matte	2¾ in	1¼ in	100	**3PYN4**
White	Vinyl/ Matte	3 5/32 in	1 15/16 in	100	**42X458**
White	Vinyl/ Matte	3⅜ in	1 in	100	**3PXZ2**
White	Vinyl/ Matte	4 in	1 in	100	**4VR59**
White	Vinyl/ Matte	4 in	1½ in	100	**3PXZ8**
Blue, Green, Orange, Red, White, Yellow	Vinyl/ Matte	4 in	1½ in	100	**H4311**
White	Vinyl/ Matte	6 in	1½ in	50	**4VT11**
Precut Label Rolls with Permanent Adhesive—Autoclavable, Cryogenic					
White	Nylon/ Matte	¼ in	1 29/32 in	750	**3PYH3**
White	Nylon/ Matte	⅜ in	⅜ in	500	**3PYG4**
White	Nylon/ Matte	⅜ in	1 in	500	**3PYF9**
White	Nylon/ Matte	½ in	½ in	500	**4VT32**
White	Nylon/ Matte	½ in	½ in	500	**3PYH2**
White	Nylon/ Matte	½ in	29/32 in	500	**3PYG6**
White	Nylon/ Matte	¾ in	½ in	500	**4VR18**
White	Nylon/ Matte	¾ in	1½ in	250	**3PYG8**
White	Nylon/ Matte	1 in	⅜ in	500	**4VR34**
White	Nylon/ Matte	1 in	¾ in	250	**4VR43**
White	Nylon/ Matte	1 in	1 in	250	**4VR48**
White	Nylon/ Matte	1 in	1½ in	250	**3PYG2**
White	Nylon/ Matte	1 in	1 29/32 in	250	**3PYH1**
White	Nylon/ Matte	1½ in	½ in	500	**4VR85**
White	Nylon/ Matte	2½ in	1 in	100	**3PYH4**
Precut Label Rolls with Removable & Repositionable Adhesive					
White	Vinyl/ Semi-Gloss	9/32 in	1 in	750	**4VR26**
White	Vinyl/ Semi-Gloss	½ in	½ in	500	**4VT29**
White	Vinyl/ Semi-Gloss	½ in	1 in	500	**4VR35**
White	Vinyl/ Semi-Gloss	½ in	1½ in	500	**4VR79**
White	Vinyl/ Semi-Gloss	¾ in	¼ in	750	**3PYJ6**
White	Vinyl/ Semi-Gloss	¾ in	½ in	500	**4VR16**
White	Vinyl/ Semi-Gloss	1 in	⅜ in	500	**4VR29**
White	Vinyl/ Semi-Gloss	1 in	¾ in	250	**3PYJ3**
White	Vinyl/ Semi-Gloss	1 in	1 in	250	**3PYJ5**
White	Vinyl/ Semi-Gloss	1 in	1½ in	250	**4VT02**
White	Vinyl/ Semi-Gloss	1½ in	¾ in	250	**3PYJ9**
White	Vinyl/ Semi-Gloss	1½ in	1½ in	250	**3PYK1**
White	Vinyl/ Semi-Gloss	2½ in	1 in	100	**3PYJ4**
White	Vinyl/ Semi-Gloss	4 in	1½ in	100	**3PYJ8**

Label Color	Label H	Label W	For Wire Gauge	For Wire Dia.	Labels per Roll	Item No.
Precut Label Rolls without Adhesive—Heat-Shrinkable						
White	½ in	½ in	10 AWG to 16 AWG	0.16 in to 0.235 in	500	**4VT50**
White	½ in	½ in	8 AWG to 10 AWG	0.16 in to 0.235 in	500	**4VT54**
White	1 in	1 in	1 AWG to 500 AWG	0.375 in to 0.95 in	50	**3TJE2**
Yellow	1 in	1 in	1 AWG to 500 AWG	0.375 in to 0.95 in	50	**3TJE3**
White	1 in	1¾ in	1 AWG to 500 AWG	0.28 in to 0.516 in	50	**3TJE1**
Yellow	1 in	1¾ in	1 AWG to 500 AWG	0.375 in to 0.95 in	50	**3TJE4**
White	1 in	3/32 in	18 AWG to 28 AWG	0.023 in to 0.08 in	100	**4VP77**
Yellow	1 in	3/32 in	18 AWG to 28 AWG	0.023 in to 0.08 in	100	**4VP78**
White	1 in	⅛ in	16 AWG to 22 AWG	0.046 in to 0.11 in	100	**4VP85**
Yellow	1 in	⅛ in	16 AWG to 22 AWG	0.046 in to 0.11 in	100	**3TJD3**
White	1 in	3/16 in	12 AWG to 18 AWG	0.062 in to 0.15 in	100	**4VP89**
Yellow	1 in	3/16 in	12 AWG to 18 AWG	0.062 in to 0.15 in	100	**4VP90**
White	1 in	¼ in	10 AWG to 16 AWG	0.094 in to 0.215 in	100	**4VP93**
Yellow	1 in	¼ in	10 AWG to 16 AWG	0.094 in to 0.215 in	100	**3TJD7**
White	1 in	⅜ in	6 AWG to 12 AWG	0.125 in to 0.32 in	100	**4VP97**
Yellow	1 in	⅜ in	6 AWG to 12 AWG	0.125 in to 0.32 in	100	**3TJD8**
White	1 in	½ in	1 AWG to 8 AWG	0.25 in to 0.7 in	100	**4VR02**
Yellow	1 in	½ in	1 AWG to 8 AWG	0.187 in to 0.45 in	100	**3TJE5**
White	11/32 in	11/32 in	10 AWG to 16 AWG	0.075 in to 0.16 in	500	**4VT46**
White	1 29/32 in	11/32 in	16 AWG to 22 AWG	0.046 in to 0.11 in	500	**30EC15**
White	1¾ in	3/32 in	18 AWG to 28 AWG	0.023 in to 0.08 in	100	**3TJD1**
Yellow	1¾ in	3/32 in	18 AWG to 28 AWG	0.023 in to 0.08 in	100	**3TJD2**
White	1¾ in	⅛ in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP83**
Yellow	1¾ in	⅛ in	16 AWG to 22 AWG	0.046 in to 0.11 in	100	**3TJD4**
White	1¾ in	3/16 in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP87**
Yellow	1¾ in	3/16 in	12 AWG to 18 AWG	0.062 in to 0.15 in	100	**3TJD5**
White	1¾ in	¼ in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP91**
Yellow	1¾ in	¼ in	10 AWG to 16 AWG	0.094 in to 0.215 in	100	**3TJD6**
White	1¾ in	⅜ in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP95**
Yellow	1¾ in	⅜ in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP96**
White	1¾ in	½ in	00 AWG to 6 AWG	0.25 in to 0.7 in	100	**4VP99**
Yellow	1¾ in	½ in	1 AWG to 8 AWG	0.187 in to 0.45 in	100	**3TJD9**
White	61/64 in	11/32 in	16 AWG to 22 AWG	0.046 in to 0.11 in	500	**30EC14**

BMP41 Handheld Label Printer and Accessories

BRADY

- Single color printing capability
- Uses thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is 1 in
- Max. print speed of 1.3 in/sec
- Max. 250 labels per day

Designed to withstand harsh environments, has been 4 ft drop tested. Features monochrome LCD display and a manual cutter. For use with continuous tapes and die cut labels. QWERTY keyboard input method. Printer features a magnet accessory for hands free printing and smart cell technology.

29YJ26

Description	Application	Includes	Built-In Label Templates	Item No.
Label Printer				
Handheld Printer	Asset Tracking, Cable and Wire, Component and Equipment Labeling, Data and Telecommunications, Electrical, Facility Safety ID, General ID	(1) BMP41, (1) BMP41 Indoor Outdoor Vinyl Labels (MC1-1000-595-WT-BK), (1) Brady CD, (1) Free Brady WorkStation Basic Design Suite Download, (1) Hard Case (BMP41-HC), (1) Product CD, (1) USB Cable (M-USB-103788)	Arrows, CLP/GHS, Datacomm, Electrical, Exit, Fire Safety, First Aid, Greek, Home Electrical, HSID, International, Laboratory, Mandatory, Miscellaneous, Packaging, Personal Protective Equipment, Prohibition, Public Info, Safety, Warning, WHMIS	**29YJ26**
Accessories				
Rechargeable Battery Pack				**29YJ27**
Magnet Accessory				**29YJ28**
Hardsided Printer Case				**29YJ29**

BMP51 Handheld Label Printers

BRADY

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- Connects through ethernet, USB or Wi-Fi
- 300 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is 1 in
- Max. print speed of 1.3 in/sec
- Max. 250 labels per day

Used for cable and wire, component and equipment labeling, facility safety ID, and laboratory ID applications. Feature a large monochrome LCD graphical display with backlight and on-screen indicators for parts, remaining material, and battery. For use with continuous tapes and die cut labels. Manual cutter and QWERTY keyboard input method. Built-in label templates: arrows, CLP/GHS, datacomm, electrical, exit, fire safety, first aid, Greek, HSID, international, laboratory, mandatory, miscellaneous, packaging, personal protective equipment, prohibition, public info, safety, warning, WHMIS.

All include printer, Brady WorkStation Basic Design Suite Download, (1) Hard Case, and (1) USB Cable.

21U176

Includes	Item No.
Label Printers	
Indoor Outdoor Vinyl Labels	**21U176**
Indoor Outdoor Vinyl Labels	**21U174**
Label Printer Kits	
Indoor Outdoor Vinyl Labels, Polyester High Adhesion General Identification Labels	**21U178**
Indoor Outdoor Vinyl Labels, Matte White Polyester Panel Component and General Identification Labels, Repositionable Vinyl Cloth Wire and Cable Labels, Ultra Thin Polyester Laboratory Labels, Ultra Thin Polyester Laboratory Labels with Vial Top	**21U179**
Continuous High Tensile Polypropylene Tags, Indoor Outdoor Vinyl Labels, PermaSleeve Polyolefin 20 to 10 Gauge Wire Marking Sleeves, Self-laminating Vinyl Wire and Cable Labels	**21U177**
Continuous High Tensile Polypropylene Tags, Continuous Polyester Panel Component Labels, Indoor Outdoor Vinyl Labels, Self-laminating Vinyl Wire and Cable Labels	**21U180**

BRADY

Label Roll Cartridges for BMP41 and BMP51 Label Printers

For thermal transfer printing.

Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges without Adhesive—Heat-Shrinkable				
Black/White	Polyolefin/ Matte	⅛ in	7 ft	**13L431**
Black/Yellow		⅛ in	7 ft	**14A383**
Black/White		3⁄16 in	7 ft	**14A391**
Black/Yellow		3⁄16 in	7 ft	**14A392**
Black/White		¼ in	7 ft	**14A385**
Black/Yellow		¼ in	7 ft	**14A386**

▶CHOOSE: Ribbon Color	▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges with Aggressive Permanent Adhesive					
Black	White	Polyester/Gloss	⅜ in	25 ft	**13L420**
Black	White		31⁄64 in	25 ft	**13L421**
White	Black	Vinyl/Gloss	½ in	25 ft	**21U194**
Black	Clear		½ in	20 ft	**13L422**
White	Clear		½ in	20 ft	**21U189**
Black	White	Polyester/Gloss	½ in	25 ft	**13L426**
Black, Red, White	Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	½ in	25 ft	**H4303**
Black	White	Polyester/Gloss	⅝ in	25 ft	**21U191**
Black, Red, White	Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	¾ in	25 ft	**G5835**
Black, White	Clear		¾ in	20 ft	**H4304**
Black	Clear		1 ½ in	20 ft	**13L416**
White	Clear		1 ½ in	20 ft	**21U197**
Black	White		1 in	25 ft	**29YJ44**
Black	Yellow		1 in	25 ft	**29YJ45**
Black	Orange		1 in	25 ft	**29YJ55**
White	Blue		1 in	25 ft	**29YJ56**
Black	White	Polyester/Gloss	1 in	25 ft	**29YJ57**
White	Red	Vinyl/Gloss	1 in	25 ft	**29YJ58**
Black	Clear		1 in	20 ft	**29YJ59**
White	Green		1 in	25 ft	**29YJ60**
Red	White		1 in	25 ft	**29YJ66**
White	Black		1 in	25 ft	**29YJ68**
White	Clear		1 in	20 ft	**29YJ69**
Black, Red, White	Black, Blue, Green, Orange, Red, White, Yellow		1 ½ in	25 ft	**H4306**
Continuous Label Roll Cartridges with Permanent Adhesive					
Black	White	Vinyl/Matte	⅜ in	25 ft	**21U230**
Black	White	Nylon/Gloss	⅜ in	16 ft	**21U211**
Black	White	Vinyl/Matte	½ in	25 ft	**21U181**
Black	White	Nylon/Matte	½ in	16 ft	**21U212**
Black	White	Polyester/Gloss	½ in	25 ft	**21U185**
Black	Yellow	Plastic/Gloss	½ in	20 ft	**21U214**
Black	White		½ in	25 ft	**21U215**
Black	White	Vinyl/Matte	¾ in	25 ft	**21U229**
Black	White	Nylon/Matte	¾ in	16 ft	**21U219**
Black	White, Yellow	Plastic/Gloss	¾ in	25 ft	**G5837**
Black	White	Vinyl/Matte	1 ¼ in	25 ft	**21U234**
Black	White	Nylon/Matte	1 in	16 ft	**21U220**
Black	White, Yellow	Plastic/Gloss	1 in	25 ft	**G5838**
Black	Yellow		1 ½ in	25 ft	**21U233**
Black	White		1 ½ in	20 ft	**21U235**
Continuous Label Roll Cartridges with Removable & Repositionable Adhesive					
Black	White	Vinyl/Semi-Gloss	15⁄64 in	16 ft	**14A384**
Black	White		5⁄16 in	16 ft	**13L428**
Black	White		⅜ in	20 ft	**13L429**

Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Roll Cartridges with Aggressive Permanent Adhesive					
White	Polyester/Gloss	1 in	1 in	260	**29YJ70**
White		½ in	2 in	80	**13L407**
White		½ in	1 in	480	**29YJ67**
White		½ in	½ in	280	**12X354**
White		½ in	½ in	180	**29YJ39**
White		½ in	1 in	480	**29YJ54**
White		¾ in	1½ in	180	**29YJ38**
Precut Label Roll Cartridges without Adhesive					
Black/White	Polyolefin/Matte	1 in	¼ in	80	**12X389**
Black/White		1 in	⅜ in	80	**12X395**
Black/White		¼ in	¾ in	80	**29YJ73**
Black/White		⅛ in	1 in	80	**12X378**
Black/White		⅛ in	¾ in	80	**29YJ74**
Black/White		¾ in	⅜ in	80	**29YJ75**
Black/White		3⁄16 in	1 in	80	**12X386**
Black/White		3⁄16 in	¾ in	80	**29YJ72**
Precut Label Roll Cartridges with Permanent Adhesive					
White	Nylon/Matte	1¼ in	1½ in	160	**12X379**
White		2¼ in	1 in	90	**29YJ50**
Light Gray	Polyester/Matte	1½ in	¾ in	260	**21U232**
White		29⁄32 in	29⁄32 in	280	**21U237**
White		½ in	½ in	240	**21U182**
Gray		½ in	1⅛ in	239	**29YJ71**
White		¾ in	29⁄32 in	320	**21U213**
White	Polypropylene/Matte	1 37⁄64 in	1 3⁄16 in	200	**21U186**
White	Vinyl/Matte	1 in	2 in	160	**21U236**
White		1 in	½ in	360	**13L430**
White		1 in	1 in	260	**29YJ42**
White		4 in	1½ in	70	**13L427**
White		4 in	1 in	70	**29YJ49**
White		6 in	1½ in	40	**13L406**
White		1½ in	1½ in	180	**12X364**
White		1½ in	1 in	180	**29YJ32**
White		1¼ in	1½ in	200	**12X345**
White		1¼ in	1 in	200	**29YJ33**
White		2½ in	1½ in	80	**12X358**
White		2½ in	1 in	110	**29YJ41**
White		¾ in	1 in	340	**29YJ43**
White		¾ in	½ in		**12X344**
Precut Label Roll Cartridges with Removable & Repositionable Adhesive					
Black/White	Vinyl/Semi-Gloss	1 in	½ in	180	**12X423**
Black/White		1 in	¾ in	180	**29YJ48**
Black/White		1 in	1 in	160	**29YJ52**
Black/White		1 29⁄32 in	1 in	100	**29YJ53**
Black/White		1½ in	1 in	120	**29YJ40**
Black/White		1¼ in	1 in	160	**12X373**
Black/White		½ in	¾ in	220	**12X375**
Black/White		½ in	½ in		**12X396**

13A913

4GPR7

DYMO Rhino Industrial Labeling Tools

RHINO Handheld Printers and Supplies

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone
- 180 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is ¾"
- Max. print speed of 2 to 8 in/sec
- Max. 4 lines of print

1-touch hot keys save setup time. QWERTY keyboard input method. Feature impact-resistant rubber bumpers for protection. Use for tracking, barcode labeling, cable and wire, facilities, MRO applications and more.

RHINO 4200

Backlit display and manual cutter. Hot keys option provides shortcuts for creating and formatting wire/cable wraps, flags, code 39 and 128 bar codes, fixed length, general, and breaker labels. Favorites key gives you access to most frequently used labels, symbols, and terms. Kit adds AC adapter, lithium-ion battery, and case.

RHINO 5200

Monochrome LCD display and automatic cutter. Handheld printer includes one ¾" black-on-white flexible nylon label cartridge. Kit adds lithium ion rechargeable battery, one ⅜" black-on-white vinyl label cartridge, AC adapter, and carrying case.

Description	Label Formats Supported	Built-In Label Templates	Item No.
Label Printer and Kit—Rhino 4200			
Label Printer	Flexible, Heat-Shrink Tubes, Permanent	Code 39 and Code 128 Bar codes, Flags, General and Breaker Labels, Wire/Cable Wraps	**13A913**
Label Printer Kit			**22F238**
Label Printer and Kit—Rhino 5200			
Label Printer	Heat-Shrink Tubes, Non-Adhesive Labels	Electrical and Patch Panels, Horizontal and Vertical Wraps, Terminal and 110 Blocks, Vertical and Fixed Length Applications, Wire/Cable Wraps	**4GPR7**
Label Printer Kit			**4GPR8**
Accessory			
AC Adapter			**5AU10**

Label Color	Material/ Finish	Roll Length	Roll Width ¼ in Item No.	⅜ in Item No.	½ in Item No.	¾ in Item No.
Continuous Label Roll Cartridges without Adhesive—Heat-Shrinkable						
For Rhino 4200 & 4200 Kits, Rhino 5200 & 5200 Kits						
Black/White	Polyolefin/ Gloss	5 ft	**5AU15**	**5AU16**	**5AU17**	**5AU18**
Black/Yellow		5 ft	**5AU19**	—	**5AU21**	**5AU22**
Black/White		5 ft	—	**5AU20**	—	—
Continuous Label Roll Cartridges with Permanent Adhesive—Halogen Free						
For Rhino 4200, Rhino 5200 Printers						
White	Polyester/ Gloss	18 ft	**13A939**	—	—	**6AA26**
White	Vinyl/Gloss	18 ft	—	**1VMK1**	**1VMK2**	**1VMK3**
Black		18 ft	—	**13A914**	**13A921**	—
Yellow		18 ft	—	—	**1VMK5**	—
Green		18 ft	—	—	**13A917**	—
Blue		18 ft	—	—	**13A920**	—
For Rhino 5200 Printers						
White	Polyester/ Gloss	18 ft	—	**5AU36**	**6AA25**	—
Clear		18 ft	—	—	**1TLR7**	**1TLR8**
Metallic		18 ft	—	—	**6AA23**	**6AA24**
Orange	Vinyl/Gloss	18 ft	—	—	**1VMK8**	**1VMK9**
Yellow		18 ft	—	—	—	**1VMK6**
Red		18 ft	—	—	—	**13A922**
Green		18 ft	—	—	—	**13A924**
Blue		18 ft	—	—	—	**13A927**
Black		18 ft	—	—	—	**13A928**

6X851

DYMO

RHINO M1011 Handheld Metal Embossing Label Maker and Tape

- Accepts ½" tape widths

Embossing label maker features front scissor manual cutoff, built-in hole punch, cable-tie slot punch, and measuring gauge to set leading and trailing label edge length. Rugged cast aluminum frame. Produces ³⁄₁₆" high characters with forward and reverse tape control. Includes a 0–9 and A–Z character set. Designed for indoor or outdoor applications. Includes embosser, character wheel, reverse-image character wheel, ½"-wide non-adhesive aluminum and stainless steel labels, and hard carry case. **Metal label tape** resists corrosion from extreme weather, temperature, chemical, or UV exposure. Comes in a box of 10 rolls.

Color	Tape Material	Adhesive	W	L	Item No.
Embossing Label Maker					
Black	—	—	—	—	**6X851**
Embosser Label Tape					
Metallic Silver	Aluminum	Adhesive	½ in	12 ft	**6X852**
Metallic Silver	Aluminum	Non-Adhesive	½ in	16 ft	**3A549**
Metallic Silver	Stainless Steel	Non-Adhesive	½ in	21 ft	**3A550**

BRADY

5UCU5

BMP71 Portable Label Printers and Supplies

5UCU7

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC printer connectivity, includes USB cable
- 300 dpi printer head resolution
- Min./Max. font size 4 to 170 pt.
- Min. Label width is ¼"; Max. Label width is 2"
- Max. print speed of 1½ in/sec
- Prints up to 1,000 labels per day
- Manual cutter

Feature built-in label design wizards, storage for over 100,000 label files, and rechargeable battery. Include over 400 label options and over 500 built-in symbols. Feature automatic label formatting and QWERTY keyboard. For use with continuous tapes and die cut labels. **60EX28** also includes the Brady WorkStation PWID Suite; **60EX29** offers the Brady WorkStation SFID Suite. **52AZ37 media adapter** is designed to let you use label cartridges from other Brady labeling systems, including older or discontinued models, with the BMP71 label printer. The label roll adapter can be used with BMP61 label tapes on page 368.

Display	Application	Includes	Built-In Label Templates	Item No.
Label Printer				
Monochrome LCD	Barcode Labeling, Circuit Board ID, Facility Safety ID, General ID, Healthcare and Hospital, Industrial ID, Laboratory ID	M71-R6000 Black Ribbon, Roll of M71-31-423 White Die Cut Labels, Hardcase, Media Adapter, USB Cable	DataComm and General ID Labels, Electrical	**5UCU5**
Label Printer Kits				
Color LCD	Barcode Labeling, Circuit Board ID, Facility Safety ID, General ID, Healthcare and Hospital, Industrial ID, Laboratory ID	Cleaning Card/Swab, Hard Case, M71-31-423 Die Cut Labels and/ or M71C-2000-580-WT Labels, M71-R6000 Black Ribbon, Product CD, Quick Charger, TLS 2200/HANDIMARK Label Roll Adapter, USB Cable	DataComm and General ID Labels, Electrical	**5UCU7**
Color LCD	Cable and Wire, Data and Telecommunications, Facility Safety ID, Laboratory ID	(1) BMP71, (1) Glossy White Polyester Asset and Equipment Tracking Labels (M71-31-423), (1) Halogen Free Ribbon (M71-R6000), (1) Hard Case (M71-HC), (1) Media Adapter (M71-ADAPT-BK), (1) USB Cable (M-USB-103788)	Flags, Patch Panel, Terminal Block, Wire/Cable Wraps	**60EX28**
Color LCD			Pipe Marker	**60EX29**

Description	Item No.
Accessories	
Printer Cleaning Kit - Includes (5) Each of Cleaning Cards and Swabs	**5UCR3**
Media Adapter, Pkg. of 3	**52AZ37**
Hardsided Printer Case	**5UCT9**
Rechargeable Battery Pack	**5UCU0**
Quick Battery Charger	**5UCU4**

▶CHOOSE: Ribbon Color	Size (WxL)	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbon			
White	2 in x 150 ft	Resin	**5UCL2**
Blue, Green, Magenta, Red, Yellow	2 in x 150 ft	Resin	**D9044**
Black	2 in x 150 ft	Resin	**5UCT1**
Black	2 in x 150 ft	Wax/Resin	**5EAW1**
Black	2 in x 150 ft	Resin	**5EAW3**
Black	2 in x 150 ft	Resin	**5WKX6**
Black	2 in x 150 ft	Resin	**5WKX7**

BMP71 Portable Label Printer Supplies

BRADY

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges with Permanent Adhesive				
White	Nylon/Matte	1 in	30 ft	**5WLD0**
		1 29/32 in	30 ft	**5WLD1**
Continuous Label Roll Cartridges with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	1 in	30 ft	**5WLE0**
		1 29/32 in	30 ft	**5WLE1**
		½ in	30 ft	**5WLE2**
Continuous Label Rolls with Aggressive Permanent Adhesive				
White	Polyester/Gloss	1 in	50 ft	**5YRU3**
		1 29/32 in	50 ft	**5WKD3**
		½ in	50 ft	**5WKD6**
		½ in	50 ft	**5WKN6**
Black, Blue, Green, Orange, Red, White, Yellow		2 in	50 ft	**G5709**
Continuous Label Rolls with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	⅜ in	30 ft	**5YTD1**
		15/64 in	30 ft	**5WKD0**
Continuous Label Roll with Permanent Adhesive				
Gray	Metallized Polyester/Matte	½ in	50 ft	**5WKN7**

▶CHOOSE: Label Color	Label Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls Cartridges with Permanent Adhesive					
White	Nylon/Matte	¼ in	1 29/32 in	750	**5WKG2**
		½ in	1 29/32 in	500	**5YTE3**
		¾ in	½ in	500	**5YTA0**
		¾ in	½ in	5,000	**5WLC9**
		1 in	¾ in	250	**5YTA6**
		1 in	1 in	250	**5YTA9**
		1½ in	½ in	500	**5YTG5**
Precut Label Rolls Cartridges with Removable & Repositionable Adhesive					
White	Vinyl/Semi-Gloss	½ in	1 in	500	**5YTA2**
		¾ in	½ in	500	**5YRZ8**
		1 in	¾ in	250	**5YRU8**
		1½ in	1 in	250	**5YTG8**
Precut Label Rolls in Box with Aggressive Permanent Adhesive					
White	Polyester/Gloss	½ in	1½ in	5,000	**5WKT3**
		1 in	1 in	2,500	**5WLC6**
Precut Label Rolls in Box without Adhesive					
Gray	Polyethylene/ Matte	1 in	1 in	100	**5WKY0**

▶CHOOSE: Label Color	Label Material/ Finish	Label H	Label W	Labels per Roll	Item No.	
Precut Label Rolls in Box with Permanent Adhesive						
Black, Green, Red, White, Yellow	Polyester/Gloss	½ in	1 1/16 in	200	**H4322**	
		1½ in	1¼ in	100	**H4323**	
		1 13/16 in	1 13/16 in	100	**H4325**	
		1 15/16 in	1¼ in	100	**H4324**	
		2 in	1 in	100	**H4326**	
Silver		2 in	1 in	100	**5WLA2**	
Black, Green, Red, White, Yellow		3 in	1 in	50	**H4327**	
Black		4 in	1 in	50	**5YRX7**	
White		4 in	1 in	50	**5YRX6**	
Precut Label Rolls with Aggressive Adhesive						
White	Polyester/Gloss	¾ in	1½ in	250	**5YTD6**	
		1 in	2 in	100	**5YRU5**	
		1 15/16 in	4 in	100	**5WKZ2**	*
		1 15/16 in	4 in	100	**5WKZ3**	†
		2 in	1⅜ in	100	**5WKD5**	
Precut Label Rolls with Aggressive Permanent Adhesive						
White	Polyester/Gloss	13/64 in	½ in	750	**5WKC6**	
		¼ in	¾ in	750	**5YRZ7**	
		⅜ in	1 in	500	**5YTA1**	
		½ in	½ in	500	**5YTE4**	
		½ in	1 9/64 in	500	**5WKL7**	
		½ in	1½ in	500	**5YTC3**	
		1 in	1½ in	250	**5WKG4**	
Gray	Polyester/Matte	1 in	2 in	100	**5WKE2**	
White	Polyester/Gloss	1 in	2 in	100	**5YTC0**	
		1 in	3 in	100	**5WKG5**	
		1¼ in	2¾ in	100	**5WKD7**	
		1½ in	¾ in	250	**5WKN3**	‡
Gray	Polyester/Matte	1 29/32 in	3 in	100	**5WKH6**	
Precut Label Rolls with Permanent Adhesive						
White	Polyolefin/ Matte	3/16 in	1 11/64 in	100	**5YRY6**	
		15/64 in	1 11/64 in	100	**5YRY8**	
		15/64 in	1 49/64 in	100	**5YRY7**	
Light Gray	Metallized Polyester/Matte	9/32 in	1 in	750	**5WKE1**	
White	Polyolefin/ Matte	21/64 in	1 11/64 in	100	**5YRZ0**	
		21/64 in	1 49/64 in	100	**5YRY9**	
	Nylon/Matte	⅜ in	1 in	500	**5YRU6**	#
	Polyolefin/ Matte	7/16 in	1 11/64 in	100	**5YRZ2**	
		7/16 in	1 49/64 in	100	**5YRZ1**	
	Nylon/Matte	½ in	15/16 in	500	**5YTE0**	
	Polyolefin/ Matte	41/64 in	1 11/64 in	100	**5YRZ4**	
		41/64 in	1 49/64 in	100	**5YRZ3**	
	Vinyl/Matte	¾ in	½ in	500	**5YRZ9**	
		¾ in	½ in	5,000	**5WLA7**	
		¾ in	1 in	250	**5YRU2**	

** "Danger" label. † "Warning" label. ‡ "Tested" label. # Two part vial label, rectangle and ⅜" dia. circle.*

▶CHOOSE: Label Color	Label Material/ Finish	Label H	Label W	Labels per Roll	Item No.
White	Polyolefin/ Matte	27/32 in	1 11/64 in	100	**5YRZ6**
		27/32 in	1 49/64 in	100	**5YRZ5**
		1 in	3/32 in	2,500	**5WLD3**
		1 in	⅛ in	1,000	**5WKY4**
		1 in	3/16 in	1,000	**5WKY6**
		1 in	¼ in	1,000	**5WKY8**
		1 in	⅜ in	1,000	**5WKZ0**
		1 21/32 in	1 11/64 in	50	**5YTF3**
		1¾ in	⅛ in	1,000	**5WKY3**
		1¾ in	3/16 in	1,000	**5WKY5**
		1¾ in	¼ in	1,000	**5WKY7**
		1¾ in	⅜ in	1,000	**5WKY9**
		1¾ in	½ in	1,000	**5WKZ1**
		1¾ in	1 in	500	**14A405**

▶CHOOSE: Label Color	Label Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls with Permanent Adhesive					
White	Vinyl/Matte	1 in	½ in	500	**5YTA4**
		1 in	½ in	5,000	**5WLE4**
		1 in	¾ in	250	**5YTA5**
		1 in	¾ in	2,500	**5WLA8**
		1 in	1 in	2,500	**5WLA9**
		1 in	1 in	250	**5YTA8**
		1 in	1½ in	250	**5YTD5**
		1¼ in	1 in	250	**5YRU1**
		1½ in	½ in	500	**5YTC4**
		1½ in	½ in	5,000	**5WLE5**
		1½ in	¾ in	250	**5YTC5**
	Metallized Polyester/ Matte	1½ in	¾ in	250	**5WKN4**
	Vinyl/Matte	1½ in	¾ in	2,500	**5WLC2**
		1½ in	1 in	2,500	**5WLC3**
		1½ in	1 in	250	**5YTC6**
		1½ in	1½ in	250	**5YTC7**
		1½ in	1½ in	1,000	**5WLC4**
		2 in	2 in	1,000	**5WLE3**
		2½ in	1 in	100	**5YTC1**
		2½ in	1 in	1000	**5WLC0**
		3 5/32 in	1 15/16 in	100	**5WLE9**
		4 in	1 in	100	**5YTC2**
		4 in	1 in	1000	**5WLC1**
		4 in	1½ in	100	**5YTC8**
		4 in	1½ in	100	**5YTD2**
		4 in	1½ in	500	**5WLA6**
		4 in	1½ in	500	**5WLC5**
		6 in	1½ in	50	**5YTC9**
Precut Tag Rolls without Adhesive					
Gray	Polyethylene/ Matte	1 in	1¾ in	100	**5WKZ6**
		1 13/64 in	¾ in	1,000	**5WKZ5**

i3300 Desktop Label Printer and Supplies

BRADY

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- PC connectivity
- 300 dpi printer head resolution
- Min. label width is ¼ in; Max. label width of 4 ¼ in
- Max. print speed of 4 in/sec
- Auto cutter
- Auto shut-off

Printers feature a color touchscreen and a smart chip that automatically sets up labels, eliminating calibration steps and reducing label waste. Easy material changeover; drop in cartridge, lock it, and start typing. Feature automatic label formatting. Also include a USB cable, cleaning kit, and product CD with user manual. For use with continuous tapes and die-cut labels.

54YN75

54YN76

Application	Built-In Label Templates	Item No.
Label Printer		
Asset Tracking, Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Facility Safety ID, General ID, Hazard Communication ID, Laboratory ID	Not Applicable	**54YN75**
Label Printer Kits		
Barcode Labeling, Circuit Board Labeling, Data and Telecommunications, Electrical, Facility Safety ID, Hazard Communication ID, Inventory and Inspection Labeling, Laboratory ID	Not Applicable	**54YN76**
Barcode Labeling, Cable and Wire, Circuit Board Labeling, Data and Telecommunications, Electrical, Facility Safety ID, Hazard Communication ID, Inventory and Inspection Labeling, Laboratory ID	Custom Labels, Pipe Marker	**54YN77**

▶CHOOSE: Ribbon Color	Size (WxL)	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbon			
Black	4 5/16 in x 200 ft	Wax/Resin	**6XGZ2**
White	4 5/16 in x 200 ft	Resin	**6XGZ3**
Black	4 5/16 in x 200 ft	Resin	**6XGZ4**
Black	4 5/16 in x 200 ft	Resin	**21U479**
Black	4 5/16 in x 200 ft	Resin	**21U478**
Black, Blue, Green, Orange, Red, White, Yellow	4 5/16 in x 200 ft	Resin	**G8802**

Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Removable & Repositionable Adhesive				
White	Vinyl/ Semi-Gloss	5/16 in	85 ft	**21U436**
White		⅜ in	85 ft	**21U437**

▶CHOOSE: Label Color	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls without Adhesive—Heat-Shrinkable				
White	1 in	¼ in	1,000	**21U287**
Black, White, Yellow	2 in	3/32 in	1,000	**G5860**
White	2 in	⅛ in	1,000	**21U284**
Black, White, Yellow	2 in	⅛ in	1,000	**G5861**
White, Yellow	2 in	¼ in	500	**G5857**
Black, White, Yellow	2 in	¼ in	500	**G5856**

▶CHOOSE: Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.	
Precut Label Rolls with Aggressive Adhesive						
White	Polyester/Gloss	½ in	1 in	5,000	**21U401**	
		1 in	3 in	1,500	**21U403**	
		2 in	3 in	500	**21U404**	
Precut Label Rolls with Aggressive Permanent Adhesive						
Black, Green, Red, Silver, White, Yellow	Polyester/Gloss	1 in	2 in	300	**G8796**	
Black, Green, Red, White, Yellow		1 51/64 in	1 51/64 in	190	**G8795**	
		1 29/32 in	1 13/64 in	180	**G8793**	
Gray	Polyester/Matte	2 in	3 in	500	**21U408**	
Black, Green, Red, White, Yellow	Polyester/Gloss	2 13/32 in	2 13/32 in	145	**G8797**	
Black, Green, White, Yellow		2½ in	3 in	125	**G8800**	
Precut Label Rolls with Permanent Adhesive						
White	Nylon/Matte	¼ in	2 in	1,500	**21U456**	
		½ in	59/64 in	1,500	**21U448**	*
	Vinyl/Matte	¾ in	½ in	2500	**21U337**	
	Nylon/Matte	¾ in	1½ in	1,500	**21U455**	
	Vinyl/Matte	15/16 in	¾ in	5000	**21U338**	
		1 in	½ in	2500	**21U339**	
		1 in	2 in	1500	**21U356**	
	Polypropylene/Matte	1 in	2 in	1,500	**21U331**	
Silver	Metallized Polyester/Gloss	1 in	2 in	1,500	**21U366**	
White	Polyester/Gloss	1 in	2 in	1,500	**21U402**	
	Vinyl/Matte	1 7/16 in	½ in	5000	**21U344**	
		1 7/16 in	1 in	2500	**21U346**	
		1½ in	1½ in	1000	**21U347**	
		1½ in	1¾ in	1000	**21U348**	
	Polypropylene/Matte	2 in	3 in	500	**21U333**	
Silver	Metallized Polyester/Gloss	2 in	3 in	500	**21U368**	
White	Vinyl/Matte	2¼ in	2½ in	500	**21U351**	
Precut Label Rolls with Removable & Repositionable Adhesive						
White	Vinyl/Semi-Gloss	½ in	1 in	5000	**21U438**	
		¾ in	½ in	5000	**21U439**	
		¾ in	1 in	2500	**21U440**	
		15/16 in	¾ in	2500	**21U441**	
		1 7/16 in	¼ in	2500	**21U442**	
		1 7/16 in	½ in	2500	**21U443**	

BBP72 and i7100 Desktop Printers and Supplies

BRADY

- Uses thermal transfer print technology
- Barcode capable
- USB printer connectivity, include a USB cable
- Max. printed label width of 4 5/32 in

High-performance thermal transfer printers automatically detect label material and ribbon, then display user information on the screen. Template and settings are automatically calculated. For use with continuous tapes and die-cut labels.

22NA72 includes LabelMark Standard Software and (2) print heads. Has a monochrome LCD display and a manual cutter. **Kits** also include (2) 1 In ribbon takeup cores plus Brady WorkStation Product and Wire ID Software Suite. Offer a color touchscreen and an automatic cutter. Offer automatic label formatting and indoor/outdoor label durability. The peel configuration on **54YN97** and **54YN99** automatically peels labels from the liner. **Label roll cartridges** have a black ribbon.

22NA72

54YN96

Printer Connectivity	Printhead Resolution	Application	Max. Label W	Max. Print Speed	Printer Series	Item No.
Desktop Label Printer—Multi-Color						
Ethernet, Parallel, Serial, USB	300 dpi	Cable and Wire	4 in	5 in/sec	BBP72	**22NA72**
Desktop Label Printer Kit—Single Color						
Ethernet, Serial, USB	300 dpi	Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Inventory and Inspection Labeling, Laboratory ID	4 21/64 in	11.8 in/sec	i7100	**54YN96**
Ethernet, Serial, USB	300 dpi	Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Inventory and Inspection Labeling, Laboratory ID	4 21/64 in	11.8 in/sec	i7100	**54YN97**
Ethernet, Serial, USB	600 dpi	Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Inventory and Inspection Labeling, Laboratory ID	4 21/64 in	5.9 in/sec	i7100	**54YN98**
Ethernet, Serial, USB	600 dpi	Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Inventory and Inspection Labeling, Laboratory ID	4 21/64 in	5.9 in/sec	i7100	**54YN99**

Size (WxL)	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbons—Black		
3 ¼ in x 984 ft	Wax/Resin	**2TYP7**
2 11/32 in x 984 ft	Wax/Resin	**2TYP8**
4 5/16 in x 984 ft	Wax/Resin	**2TYP9**
2 11/32 in x 984 ft	Resin	**2TYR1**
3 ¼ in x 984 ft	Resin	**2TYR2**
1 9/16 in x 984 ft	Resin	**2UPJ8**
4 5/16 in x 984 ft	Resin	**2TYR3**
1 in x 984 ft	Wax/Resin	**22NA73**
3 ¼ in x 984 ft	Resin	**22NA74**
4 5/16 in x 984 ft	Resin	**22NA75**
13/16 in x 984 ft	Resin	**22NA76**
1 9/16 in x 984 ft	Resin	**22NA77**
2 ⅜ in x 984 ft	Resin	**22NA78**
2 ⅜ in x 984 ft	Resin	**22NA79**
1 9/16 in x 984 ft	Resin	**22NA80**
4 5/16 in x 984 ft	Resin	**22NA81**
3 ¼ in x 984 ft	Resin	**22NA82**
5 ⅛ in x 984 ft	Resin	**22NA83**
2 ⅜ in x 984 ft	Resin	**22NA84**
3 ¼ in x 984 ft	Wax/Resin	**22NA85**
3 ¼ in x 984 ft	Resin	**22NA86**
4 5/16 in x 984 ft	Wax/Resin	**22NA87**
2 11/32 in x 984 ft	Wax/Resin	**22NA88**
6 ⅞ in x 984 ft	Wax/Resin	**22NA89**
1 9/16 in x 984 ft	Wax/Resin	**22NA92**
3 ¼ in x 984 ft	Wax/Resin	**30DA21**
4 5/16 in x 984 ft	Wax/Resin	**30DA22**
5 ⅛ in x 984 ft	Wax/Resin	**30DA24**
4 5/16 in x 500 ft	Resin	**30DA35**
3 ¼ in x 984 ft	Resin	**30DA38**
2 ⅜ in x 984 ft	Resin	**30DA39**
2 ⅜ in x 984 ft	Resin	**30DA43**
5 ⅛ in x 984 ft	Resin	**30DA52**
5 ⅛ in x 984 ft	Wax/Resin	**30DA59**
6 ⅞ in x 984 ft	Resin	**30DA61**
Single Color Thermal Transfer Ribbons—White		
2 in x 150 ft	Resin	**22NA90**
3 ¼ in x 984 ft	Resin	**22NA91**
4 5/16 in x 984 ft	Resin	**30DA51**

Label Color	Material/Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Aggressive Permanent Adhesive				
Clear	Polyester/Gloss	3 in	300 ft	**22MX85**
White	Polyester/Gloss	4 in	300 ft	**22MX95**
Continuous Label Rolls with Permanent Adhesive				
Gray	Metallized Polyester/Matte	3 in	300 ft	**2TYW3**
Gray	Metallized Polyester/Matte	2 in	300 ft	**22MY31**
Continuous Label Rolls with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	⅜ in	165 ft	**22MY10**

Label Color	Material/Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Roll Cartridges with Permanent Adhesive					
White	Vinyl/Matte	1¾ in	¾ in	10,000	**22MZ66**
White	Vinyl/Matte	1 7/16 in	51/64 in	10,000	**2TYU5**
White	Vinyl/Matte	1 7/16 in	½ in	10,000	**2TYU7**
White	Vinyl/Matte	1 7/16 in	1 in	10,000	**2TYU8**
White	Nylon/Matte	1 7/16 in	51/64 in	5000	**22MZ73**
White	Vinyl/Matte	2¼ in	1 in	3,000	**22MZ62**
White	Vinyl/Matte	2¼ in	1 in	3,000	**2TYU6**
White	Vinyl/Matte	3 3/16 in	1 29/32 in	1,500	**22MZ64**
White	Vinyl/Matte	3¾ in	1 in	3,000	**2TYR4**
White	Vinyl/Matte	3¾ in	2 in	1,000	**22MZ57**
White	Vinyl/Matte	¾ in	½ in	5,000	**22MZ67**
White	Nylon/Matte	¾ in	½ in	10,000	**22MZ74**
White	Vinyl/Matte	1 in	1½ in	5,000	**22MZ50**
White	Nylon/Matte	1 in	2 in	3000	**22MZ76**
White	Nylon/Matte	2 in	3 in	1000	**22MZ75**
Precut Label Rolls with Aggressive Adhesive					
White	Polyester/Gloss	½ in	1 in	10,000	**22MX94**
White	Polyester/Gloss	2 in	3 in	1,000	**2TYV6**
White	Polyester/Gloss	2 in	4 in	1,000	**22MX91**

Label Color	Material/Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls with Aggressive Permanent Adhesive					
White	Polyester/Gloss	1¼ in	2¾ in	3,000	**22MX93**
White	Polyester/Gloss	1¼ in	2¾ in	3,000	**22MX61**
White	Polyester/Gloss	1¾ in	2¾ in	1,000	**22MX64**
White	Polyester/Gloss	½ in	1½ in	10,000	**2TYT8**
White	Polyester/Gloss	½ in	2 in	3,000	**2TYU2**
White	Polyester/Gloss	½ in	1 in	10,000	**2TYU3**
Gray	Polyester/Matte	½ in	1 in	5,000	**30DX88**
White	Polyester/Gloss	¼ in	¼ in	10,000	**2TYR5**
White	Polyester/Gloss	¼ in	¾ in	10,000	**2TYR6**
White	Polyester/Gloss	¼ in	1 in	10,000	**22MX59**
Yellow	Polyester/Gloss	¾ in	1½ in	10,000	**22MX57**
White	Polyester/Gloss	⅜ in	1 in	10,000	**22MX60**
White	Polyester/Gloss	13/64 in	21/32 in	10,000	**2TYR7**
White	Polyester/Gloss	1 in	2 in	3,000	**2TYR9**
White	Polyester/Gloss	1 in	3 in	3,000	**2TYT1**
Clear	Polyester/Gloss	1 in	2 in	3,000	**22MX86**
Clear	Polyester/Gloss	1 in	3 in	5,000	**22MX89**
White	Polyester/Gloss	1 in	2 in	3,000	**2TYV5**
White	Polyester/Gloss	1 in	3 in	3,000	**2TYV7**
Gray	Polyester/Matte	1 in	3 in	3,000	**2TYW5**
White	Polyester/Gloss	2 in	3 in	1,000	**2TYT3**
White	Polyester/Gloss	2 in	4 in	1,000	**22MX58**
Clear	Polyester/Gloss	2 in	3 in	1,000	**22MX88**
White	Polyester/Gloss	3 in	4 in	1,000	**22MX92**
White	Polyester/Gloss	4 in	4 in	1,000	**22MX63**
Precut Label Rolls without Adhesive					
White	Nomex/Matte	13/32 in	2 13/64 in	2,500	**30DD30**
Precut Label Rolls with Permanent Adhesive					
White	Polyester/Gloss	1½ in	1 13/64 in	500	**2RGY6**
Gray	Metallized Polyester/Matte	1¼ in	2¾ in	3,000	**22MY28**
White	Polyester/Gloss	1 29/32 in	1 13/64 in	500	**2TYU9**
White	Polyester/Gloss	1 51/64 in	1 51/64 in	500	**2TYV1**
White	Polyester/Gloss	2½ in	3 in	250	**2UPP4**
White	Polyester/Gloss	2 13/32 in	2 13/32 in	500	**2TYV2**
White	Polyester/Gloss	3½ in	3 in	250	**2TYV4**
Clear	Polyester/Gloss	½ in	1 in	10,000	**22MX87**
Clear	Polyester/Gloss	½ in	½ in	10,000	**22MX90**
Gray	Metallized Polyester/Matte	½ in	1 in	10,000	**22MY27**
Gray	Metallized Polyester/Matte	¼ in	¾ in	10,000	**22MY30**
Gray	Metallized Polyester/Matte	¾ in	1½ in	10,000	**22MY26**
White	Nylon/Matte	⅜ in	1 in	3,000	**22MZ77** *
White	Polyester/Gloss	19/32 in	1 49/64 in	500	**2UPK6**
Black	Polyester/Gloss	19/32 in	1 49/64 in	500	**2UPL2**
White	Polyester/Gloss	31/64 in	1 1/16 in	500	**2UPJ9**
Black	Polyester/Gloss	31/64 in	1 1/16 in	500	**2UPK5**
Gray	Metallized Polyester/Matte	1 in	2 in	3,000	**2TYV9**
Silver	Polyester/Gloss	1 in	2 in	2,000	**22MY29**
White	Polyester/Gloss	1 in	2 in	500	**2UPL3**
Black	Polyester/Gloss	1 in	2 in	500	**2UPL8**
White	Polyester/Gloss	1 in	4 in	500	**2UPL9**
Black	Polyester/Gloss	1 in	4 in	500	**2UPN5**
White	Polyester/Gloss	1 in	3 in	500	**2TYV3**
Black	Polyester/Gloss	1 in	3 in	500	**2UPP3**
Gray	Metallized Polyester/Matte	2 in	3 in	1,000	**2TYW1**
Silver	Metallized Polyester/Gloss	2 in	3 in	1,000	**30DW07**
White	Polyester/Gloss	3 in	4 in	1,000	**30DX40**
White	Paper/Matte	4 in	6 in	1,000	**30DU92**
Precut Label Rolls with Removable & Repositionable Adhesive					
White	Vinyl/Semi-Gloss	1 7/16 in	51/64 in	5,000	**22MY06**
White	Vinyl/Semi-Gloss	¼ in	¾ in	10,000	**22MY07**
White	Vinyl/Semi-Gloss	1 in	2 in	3,000	**22MY14**

Label Color	Label H	Label W	For Wire Gauge	Labels per Roll	Item No.
Precut Label Rolls without Adhesive—Heat-Shrinkable					
White	½ in	3/32 in	10 AWG to 16 AWG	2,500	**22MY70**
White	1 in	1 in	20 AWG to 24 AWG	250	**22MY66**
Yellow	1 in	1 in	20 AWG to 24 AWG	250	**22MY67**
White	1 in	⅛ in	10 AWG to 20 AWG	1,000	**30DM31**
White	1 in	3/16 in	1 AWG to 8 AWG	1,000	**30DN51**
White	1 in	½ in	16 AWG to 22 AWG	1,000	**30DP67**
White	1 in	3/32 in	20 AWG to 28 AWG	5,000	**30DP81**
White	1 in	⅜ in	4 AWG to 12 AWG	2,000	**30DP83**
White	1 in	⅛ in	16 AWG to 22 AWG	5,000	**30DP95**
White	1 in	3/16 in	10 AWG to 20 AWG	5,000	**30DR12**
White	1 in	¼ in	10 AWG to 20 AWG	5,000	**30DR23**
White	1½ in	⅛ in	10 AWG to 16 AWG	2,500	**22MY71**
White	1½ in	3/16 in	8 AWG to 12 AWG	2,500	**22MY72**
White	1½ in	¼ in	8 AWG to 12 AWG	2,500	**22MY73**
Yellow	1½ in	¼ in	4 AWG to 8 AWG	2,500	**22MY74**
White	1½ in	⅜ in	4 AWG to 8 AWG	1,000	**22MY75**
White	1½ in	½ in	1 AWG to 6 AWG	500	**22MY76**
White	1½ in	⅛ in	20 AWG to 28 AWG	500	**30DM06**
White	1½ in	3/16 in	1 AWG to 8 AWG	500	**30DN07**
White	1½ in	¼ in	20 AWG to 28 AWG	500	**30DP10**
Red	1½ in	⅛ in	16 AWG to 22 AWG	2,500	**30DP88**
White	2 in	3/16 in	1 AWG to 6 AWG	2,500	**2TYP1**
White	2 in	¼ in	1 AWG to 6 AWG	2,500	**2TYP2**
White	2 in	⅛ in	1 AWG to 6 AWG	2,500	**2TYP3**
White	2 in	3/32 in	1 AWG to 8 AWG	2,500	**22MY40**
Yellow	2 in	3/32 in	0000 AWG to 6 AWG	2,500	**22MY41**
Yellow	2 in	⅛ in	20 AWG to 28 AWG	2,500	**22MY42**
Yellow	2 in	3/16 in	16 AWG to 22 AWG	2,500	**22MY43**
White	2 in	½ in	10 AWG to 20 AWG	500	**22MY47**
White	2 in	¾ in	4 AWG to 12 AWG	250	**22MY49**
Yellow	2 in	¾ in	1 AWG to 8 AWG	250	**22MY50**
White	2 in	1 in	0000 AWG to 6 AWG	250	**22MY51**
Yellow	2 in	1 in	8 AWG to 16 AWG	250	**22MY52**
White	2 in	1½ in	4 AWG to 12 AWG	250	**22MY53**
Yellow	2 in	1½ in		250	**22MY54**
White	2 in	3/16 in	1 AWG to 6 AWG	2,500	**2TYP4**
White	2 in	¼ in	1 AWG to 6 AWG	2,500	**2TYP5**
Yellow	2 in	3/16 in	10 AWG	2,500	**22MY58**
Yellow	2 in	⅜ in	8 AWG to 16 AWG	2,500	**22MY59**
White	2 in	⅜ in	20 AWG to 28 AWG	1,000	**22MY60**
Yellow	2 in	⅜ in	8 AWG to 16 AWG	1,000	**22MY61**
White	2 in	½ in	4 AWG to 12 AWG	500	**22MY62**
Yellow	2 in	½ in	0000 AWG to 6 AWG	500	**22MY63**
White	2 in	¾ in	4 AWG	250	**22MY64**
Yellow	2 in	¾ in	4 AWG to 6 AWG	250	**22MY65**
White	2 in	1½ in	16 AWG to 20 AWG	250	**22MY68**
Yellow	2 in	1½ in	16 AWG to 20 AWG	250	**22MY69**
White	2 in	⅛ in	1 AWG to 6 AWG	500	**30DF91**
Yellow	2 in	⅜ in	8 AWG to 12 AWG	250	**30DG04**
White	2 in	⅜ in	8 AWG to 12 AWG	250	**30DG06**
Black	2 in	⅜ in	4 AWG to 8 AWG	250	**30DG11**
White	2 in	3/16 in	20 AWG to 24 AWG	500	**30DG14**
Black	2 in	½ in	16 AWG to 20 AWG	250	**30DG28**
Yellow	2 in	¼ in	16 AWG to 20 AWG	500	**30DG41**
White	2 in	¼ in	16 AWG to 20 AWG	500	**30DG43**
Red	2 in	¼ in	16 AWG to 20 AWG	500	**30DG44**
Black	2 in	¼ in	10 AWG to 16 AWG	500	**30DG46**
White	2 in	3/32 in	8 AWG to 16 AWG	500	**30DL61**
White	2 in	⅛ in	10 AWG to 20 AWG	500	**30DM30**
White	2 in	⅜ in	8 AWG to 16 AWG	250	**30DM80**
White	2 in	3/16 in	1 AWG to 8 AWG	500	**30DN50**
White	2 in	½ in	16 AWG to 20 AWG	250	**30DN72**
White	2 in	¼ in	8 AWG	500	**30DP39**
Precut Label Rolls without Adhesive—Heat-Shrinkable, Self-Extinguishing					
White	¾ in	3/16 in	10 AWG to 20 AWG	20,000	**30DK44**
White	1 in	¼ in	20 AWG to 28 AWG	2,000	**30DH90**
White	1 in	⅜ in	20 AWG to 28 AWG	2,000	**30DJ08**
White	1 in	3/16 in	16 AWG to 22 AWG	5,000	**30DJ40**
White	1½ in	½ in	0 AWG to 6 AWG	500	**30DH72**
White	1½ in	¼ in	20 AWG to 28 AWG	1,000	**30DH87**
White	1½ in	⅜ in	20 AWG to 28 AWG	1,000	**30DH99**
White	1½ in	⅜ in	16 AWG to 22 AWG	2,500	**30DJ58**

** With ⅜"-dia. vial top label.*

EPSON
EXCEED YOUR VISION

LabelWorks LW-PX900 Handheld Label Printer

45VZ82

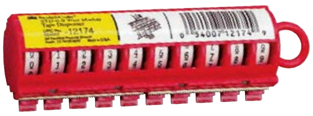
- Single color printing capability
- Uses thermal transfer print technology
- Barcode capable
- Standalone or PC printer connectivity
- 360 dpi printer head resolution
- Min. Label width is 4mm; Max. Label width is 1½"
- Max. print speed of 35 mm/sec

Label Printer includes a tape cartridge, Label Editor software, USB cable, lithium-ion rechargeable battery, AC adapter, (2) removable magnet attachments, owner's manual, and industrial hard plastic case. For use with continuous tapes and die cut labels. Heat-shrink sleeve **Continuous Labels** can be cut from the roll automatically at the desired location. Labels are polyolefin with a matte finish.

Application	Item No.
Handheld Label Printer	
Cable and Wire Marking, Patch Panels, Punch Blocks	45VZ82

Roll Size (WxL)	For Wire Gauge	For Wire Dia.	Color	Item No.
Continuous Label Roll Cartridges				
⅛ in x 8 13⁄64 ft	14 AWG to 22 AWG	0.055 in to 0.15 in	Black on Yellow	48GE85
⅛ in x 8 13⁄64 ft	14 AWG to 22 AWG	0.055 in to 0.15 in	Black on White	48GE81
3⁄16 in x 8 ft	10 AWG to 20 AWG	0.069 in to 0.16 in	Black on Green	48GE82
3⁄16 in x 8 ft	10 AWG to 20 AWG	0.069 in to 0.16 in	Black on Blue	48GE83
3⁄16 in x 8 ft	8 AWG to 12 AWG	0.13 in to 0.205 in	White on Black	48GE84
3⁄16 in x 8 ft	8 AWG to 12 AWG	0.13 in to 0.205 in	Black on Red	48GE86
3⁄16 in x 8 ft	8 AWG to 12 AWG	0.13 in to 0.205 in	Black on Yellow	48GE87
3⁄16 in x 8 ft	8 AWG to 12 AWG	0.13 in to 0.205 in	Black on White	48GE88
¼ in x 8 13⁄64 ft	6 AWG to 18 AWG	0.095 in to 0.24 in	Black on White	48GE89
¼ in x 8 ft	6 AWG to 18 AWG	0.091 in to 0.215 in	Black on Yellow	48GE90
⅜ in x 8 ft	4 AWG to 12 AWG	0.138 in to 0.315 in	Black on White	48GE91
½ in x 8 ft	2 AWG to 8 AWG	0.228 in to 0.409 in	Black on Yellow	48GE92
½ in x 8 ft	2 AWG to 8 AWG	0.228 in to 0.409 in	Black on White	48GE93
½ in x 8 ft	2 AWG to 8 AWG	0.228 in to 0.409 in	Black on Red	48GE94
½ in x 8 ft	2 AWG to 8 AWG	0.228 in to 0.409 in	White on Black	48GF02
9⁄16 in x 8 ft	0 AWG to 5 AWG	0.303 in to 0.492 in	Black on White	48GE95
⅞ in x 8 ft	0000 AWG to 1 AWG	0.461 in to 0.768 in	Black on White	48GE97
⅞ in x 8 ft	0000 AWG to 1 AWG	0.461 in to 0.768 in	Black on Yellow	48GE98

3M


2A233

Wire Marking Tape Dispenser and Refills

ScotchCode STD Dispenser is compact and refillable, with easy cut-off for no waste. Provides fast, convenient access to 10 rolls of wire and cable marking tape. Non-smear polyester with high-tack acrylic adhesive resists solvents, oil, and water to give optimum adherence to insulation surfaces. Operating temp. range: -40°F to 250°F.

Legend	Background Color	Item No.	Pkg. Qty.
Red Wire Marker Tape Dispenser Only			
(Blank)	—	2DRP8	10
Red Wire Marker Dispenser w/Tape			
0 to 9	White (Black Text)	2A233	1
(Blank)	Black, Blue, Brown, Gray, Green, Orange, Red, Violet, White, Yellow	4DYW9	1
Wire Marker Tape Refill			
0	White (Black Text)	4YT53	1
1	White (Black Text)	4YT54	1
2	White (Black Text)	4YT55	1
3	White (Black Text)	4YT56	1
4	White (Black Text)	4YT57	1
5	White (Black Text)	4YT58	1
6	White (Black Text)	4YT59	1
7	White (Black Text)	4YT60	1
8	White (Black Text)	4YT61	1
9	White (Black Text)	4YT62	1
0 to 9	White (Black Text)	4YT52	10
10 to 19	White (Black Text)	4YT63	10
20 to 29	White (Black Text)	4YT64	10
30 to 39	White (Black Text)	4YT65	10
(Blank)	Black, Blue, Brown, Gray, Green, Orange, Red, Violet, White, Yellow	4YT66	10

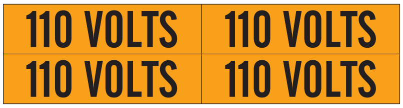
BRADY

Write-On Self-Laminating Wire and Cable Markers

Convenient-sized books contain white/transparent self-laminating vinyl for use above or below ground. The transparent portion of the label over-wraps to provide a snug-fitting, self-laminating shield that resists oil, water, and solvents.

3TP15

Markers per Card	Label W	Label H	Write-On Area	Item No.
180	0.5 in	1.5 in	0.50 in W x 0.75 in H	3TP22
120	0.75 in	1.75 in	0.75 in W x 0.50 in H	3TP14
60	1.0 in	3.0 in	1.00 in W x 0.75 in H	3TP15
30	1.0 in	6.0 in	1.00 in W x 1.00 in H	3TP16



4 Markers Per Card

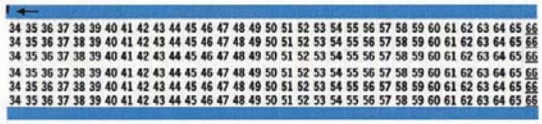
BRADY

Voltage Markers

- Orange background
- Black text

These highly visible markers quickly identify voltage and power sources. They are easy to apply to conduit, busways, circuit breakers, switches, fuse boxes, and other electrical equipment.

Legend	1 MARKER/ CARD 9 in" x 2¼ in Item No.	4 MARKERS/ CARD 4⅛ in" x 1⅛ in Item No.	18 MARKERS/ CARD 2¼ in" x ½ in Item No.
110 Volts	—	61TJ67	—
120/208 Volts	61TJ47	61TJ45	61TJ63
120 Volts	61TJ68	61TJ52	61TJ51
208 Volts	61TJ48	61TJ53	61TJ58
220 Volts	—	61TJ60	61TJ49
227 Volts	61TJ43	61TJ54	—
230 Volts	—	—	61TJ66
240 Volts	61TJ40	61TJ57	61TJ41
277/480 Volts	61TJ69	61TJ55	61TJ64
440 Volts	—	—	61TJ50
460 Volts	—	61TJ62	61TJ65
480 Volts	61TJ46	61TJ44	61TJ59
4160 Volts	61TJ61	—	—
13,200 Volts	61TJ39	—	—
Single Phase	—	61TJ38	—
Three Phase	—	61TJ56	61TJ42


4KCJ3

BRADY

Wire Markers

- White background
- Black text

Vinyl cloth markers attach quickly and firmly to the wire for clear, concise identification. 0.25"W x 1.5"L. Brady Zip-Strip release card lets you easily remove just the markers you need, and are designed with vinyl B500 material. 25 cards per pkg.

Legend	Markers per Card	Item No.
0	36	4KCH6
1	36	4KCJ1
2	36	4KCJ2
3	36	4KCJ4
4	36	4KCJ5
5	36	4KCJ6
6	36	4KCJ8
7	36	4KCJ9
8	36	4KCK1
9	36	4KCK2
1 to 33	33	4KCH9
34 to 66	33	4KCJ3
67 to 99	33	4KCJ7
100 to 124	25	4KCH7
125 to 149	25	4KCH8
A to Z	26	4KCK3
- (Minus)	36	4KCK4
+ (Plus)	36	4KCK5

BRADY

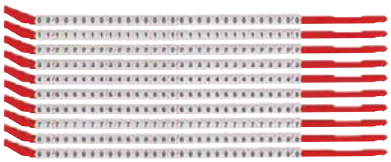
Wire Marker Books

- White background
- Black text

Slim, lightweight, pocket-sized Brady Porta-Pack books contain vinyl cloth labels with a large selection of legends available: numbers, letters, and special symbols. Each marker also includes a terminal marker. 10 pages per book.

3TP19

Legend	Markers per Card	Item No.
0 to 9	45	3TP18
- (Minus), / (Slash), + (Plus), 0 to 15, A-Z	10	3TP19
1 to 45	10	3TP20
- (Minus), / (Slash), + (Plus), 0 to 90, A-Z	(2) A to Z, +, -, /, 0, (4) 16 to 90, (6) 1 to 15	3TP21
Load Center and Residential Wire Markers	5 Cards Each of 2 Legends	3TP17


3TP30

BRADY

ClipSleeve Wire Markers

Nylon split-sleeve markers have chevron locking design—they snap onto the wire and won't slip or slide. Black on white. Min. wire size (AWG): 16, 14. Markers are easy to apply with the nylon wand applicator. Numeric packages contain 10 wands with 30 sleeves per wand. Alpha packages contain 13 wands, 1 per letter.

Legend	Item No.
0 to 9	3TP30
1	3TP24
2	3TP25
A to M	3TP26
N to Z	3TP27

2A225

Insulating Electrical Tape

3M · Shurtape · DuPont™ Kapton® · Thomas&Betts

Tape wraps around wire and cable to prevent shorts and electrical shock. Flexible tape can be slightly stretched and applied with pressure for a secure bond. Most applications use general purpose electrical insulating tape, while other applications require specific properties such as abrasion resistance, corrosion protection, high-temperature resistance. Some tape varieties come in multiple colors for phasing and voltage identification.

Tape WxL	Thickness	Color	Voltage Rating	Max. Temp.	Product Form	Item No.	Pkg. Qty.
General Purpose							
Cotton Tape with Rubber Adhesive 3M™ Temflex™ Series 175							
½ in x 180 ft	10.5 mil	White	600 V	200°F	Roll	**31XL90**	1
1 in x 180 ft	10.5 mil	White	600 V	200°F	Roll	**15C776**	1
3 in x 180 ft	10.5 mil	White	600 V	200°F	Roll	**31XL91**	1
4 in x 180 ft	10.5 mil	White	600 V	200°F	Roll	**31XL92**	1
Rubber Tape with Rubber Adhesive 3M™ Scotch® Series 2234							
2 in x 6 ft	60 mil	Black	Not Rated	190°F	Roll	**4DYW8**	1
Rubber Tape with Rubber Adhesive 3M™ Scotch® Series 2242							
¾ in x 15 ft	30 mil	Black	600 V	190°F	Roll	**2FZN8**	24
1 ½ in x 15 ft	30 mil	Black	600 V	190°F	Roll	**2FYV7**	12
Rubber Tape with Rubber Adhesive 3M™ Temflex™ Series 2155							
1 ½ in x 22 ft	30 mil	Black	600 V	175°F	Roll	**2DPU3**	45
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series 2000							
2 in x 150 ft	6 mil	Gray	600 V	220°F	Roll	**3KUX3**	1
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series 22							
¾ in x 108 ft	10 mil	Black	600 V	175°F	Roll	**2DPU7**	48
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series 35							
½ in x 20 ft	7 mil	White	600 V	220°F	Roll	**2JKR1**	100
	7 mil	Red	600 V	220°F	Roll	**2JKW5**	100
	7 mil	Blue	600 V	220°F	Roll	**2JKV2**	100
	7 mil	Green	600 V	220°F	Roll	**2JKY7**	100
	7 mil	Yellow	600 V	220°F	Roll	**2FZE3**	100
	7 mil	Orange	600 V	220°F	Roll	**2FZC7**	100
	7 mil	Gray	600 V	220°F	Roll	**2FZG1**	100
	7 mil	Brown	600 V	220°F	Roll	**2FZD8**	100
	7 mil	Purple	600 V	220°F	Roll	**2JKW1**	100
¾ in x 66 ft	7 mil	White	600 V	220°F	Roll	**2A228**	1
	7 mil	Red	600 V	220°F	Roll	**2A229**	1
	7 mil	Blue	600 V	220°F	Roll	**2A230**	1
	7 mil	Green	600 V	220°F	Roll	**2A231**	1
	7 mil	Yellow	600 V	220°F	Roll	**2A232**	1
	7 mil	Orange	600 V	220°F	Roll	**3A184**	1
	7 mil	Gray	600 V	220°F	Roll	**3A185**	1
	7 mil	Brown	600 V	220°F	Roll	**3A186**	1
	7 mil	Purple	600 V	220°F	Roll	**3A187**	1
	7 mil	Pink	600 V	220°F	Roll	**437L07**	1
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series 66R							
¾ in x 108 ft	10 mil	Black	600 V	220°F	Roll	**2FZG5**	48
1 in x 108 ft	10 mil	Black	600 V	220°F	Roll	**2DPU4**	36
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series Super 33+							
¾ in x 20 ft	7 mil	Black	600 V	220°F	Roll	**2A226**	10
¾ in x 44 ft	7 mil	Black	600 V	220°F	Roll	**2FZD6**	100
¾ in x 52 ft	7 mil	Black	600 V	220°F	Roll	**2FZC9**	100
¾ in x 76 ft	7 mil	Black	600 V	220°F	Roll	**2A225**	1
¾ in x 108 ft	7 mil	Black	600 V	—	Roll	**791TX2**	1
1 ½ in x 44 ft	7 mil	Black	600 V	175°F	Roll	**2FYL6**	100
2 in x 66 ft	7 mil	Black	600 V	—	Roll	**784ZV0**	1
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series Super 88							
¾ in x 66 ft	8.5 mil	Black	600 V	220°F	Roll	**2A227**	1
¾ in x 108 ft	8.5 mil	Black	600 V	220°F	Roll	**2FZP7**	48
1 ½ in x 44 ft	8.5 mil	Black	600 V	—	Roll	**784ZV1**	1
2 in x 108 ft	8.5 mil	Black	600 V	220°F	Roll	**2FYW1**	12
Vinyl Tape with Rubber Adhesive 3M™ Temflex™ Series 165							
¾ in x 60 ft	6 mil	Black	600 V	194 °F	Roll	**61CF49**	1
	6 mil	Blue	600 V	194 °F	Roll	**61CF50**	1
	6 mil	Red	600 V	194 °F	Roll	**61CF60**	1
	6 mil	Brown	600 V	194 °F	Roll	**61CF51**	1
	6 mil	Gray	600 V	194 °F	Roll	**61CF52**	1
	6 mil	Orange	600 V	194 °F	Roll	**61CF53**	1
	6 mil	Purple	600 V	194 °F	Roll	**61CF54**	1
	6 mil	White	600 V	194 °F	Roll	**61CF55**	1
	6 mil	Yellow	600 V	194 °F	Roll	**61CF56**	1
	6 mil	Green	600 V	194 °F	Roll	**61CF59**	1
Vinyl Tape with Rubber Adhesive 3M™ Temflex™ Series 1700							
¾ in x 108 ft	7 mil	Black	600 V	176 °F	Roll	**61CF58**	1
Vinyl Tape with Rubber Adhesive 3M™ Temflex™ Series 175							
¾ in x 60 ft	7 mil	Black	600 V	194 °F	Roll	**61CF57**	1
Vinyl Tape with Rubber Adhesive Grainger Approved® Series Economy							
¾ in x 60 ft	7 mil	Black	600 V	175°F	Roll	**19N746**	1
	7 mil	Black	600 V	175°F	Roll	**19N747**	10
	7 mil	Blue	600 V	175°F	Roll	**19N748**	1
	7 mil	Green	600 V	175°F	Roll	**19N749**	1
	7 mil	Red	600 V	175°F	Roll	**19N750**	1
	7 mil	White	600 V	175°F	Roll	**19N751**	1
	7 mil	Yellow	600 V	175°F	Roll	**19N752**	1
	7 mil	Blk/Red/Wht	600 V	175 °F	Roll	**7DX34**	1
	7 mil	Blk/Blu/Grn/ Red/Wht/Yel	600 V	175 °F	Roll	**7DX32**	1
Vinyl Tape with Rubber Adhesive Grainger Approved® Series Premium							
¾ in x 66 ft	7 mil	White	600 V	220°F	Roll	**19N737**	1
	7 mil	Red	600 V	220°F	Roll	**19N738**	1
	7 mil	Blue	600 V	220°F	Roll	**19N739**	1
	7 mil	Green	600 V	220°F	Roll	**19N740**	1
	7 mil	Yellow	600 V	220°F	Roll	**19N741**	1
	7 mil	Orange	600 V	220°F	Roll	**19N742**	1
	7 mil	Brown	600 V	220°F	Roll	**19N744**	1
Vinyl Tape with Rubber Adhesive Grainger Approved® Series Professional							
¾ in x 20 ft	7 mil	Black	600 V	220°F	Roll	**19N736**	10
¾ in x 66 ft	7 mil	Black	600 V	220°F	Roll	**19N735**	1
	8.5 mil	Black	600 V	220°F	Roll	**19N745**	1
Vinyl Tape with Rubber Adhesive Shrink-Kon® Series AC							
3 in x 5 in	6 mil	Black	600 V	120°F	Strips	**3KH72**	10
7 in x 5 in	6 mil	Black	600 V	120°F	Strips	**3KH73**	10
10 ½ in x 8 ½ in	6 mil	Black	600 V	120°F	Strips	**3KH75**	5

Tape WxL	Thickness	Color	Voltage Rating	Max. Temp.	Product Form	Item No.	Pkg. Qty.
Vinyl Tape with Rubber Adhesive Shurtape® Series EV 57							
¾ in x 66 ft	7 mil	Blue	600 V	176°F	Roll	**53XM08**	1
	7 mil	Green	600 V	176°F	Roll	**53XM09**	1
	7 mil	Black	600 V	176°F	Roll	**49XZ33**	1
High-Voltage							
Rubber Tape with Rubber Adhesive 3M™ Scotch® Series 130C							
¾ in x 30 ft	30 mil	Black	69 kV	265°F	Roll	**2A459**	1
1 in x 30 ft	30 mil	Black	69 kV	265°F	Roll	**4DYW4**	1
1 ½ in x 30 ft	30 mil	Black	69 kV	190°F	Roll	**2FYV9**	12
2 in x 30 ft	30 mil	Black	69 kV	265°F	Roll	**4DYW5**	1
Rubber Tape with Rubber Adhesive 3M™ Scotch® Series 23							
¾ in x 30 ft	30 mil	Black	69 kV	190°F	Roll	**4YT75**	1
1 in x 30 ft	30 mil	Black	69 kV	190°F	Roll	**4YT49**	1
1 ½ in x 30 ft	30 mil	Black	69 kV	190°F	Roll	**4YT70**	1
2 in x 30 ft	30 mil	Black	69 kV	190°F	Roll	**4YT76**	1
Silicone Tape with Silicone Adhesive 3M™ Scotch® Series 70							
1 in x 30 ft	12 mil	Gray	Not Rated	355°F	Roll	**2A460**	1
Abrasion-Resistant							
Acetate Tape with Rubber Adhesive 3M™ Series 28							
1 in x 216 ft	8 mil	White	Not Rated	220°F	Roll	**2GDH5**	36
Cotton Tape with Rubber Adhesive 3M™ Temflex™ Series 1755							
¾ in x 60 ft	13 mil	Black	600 V	175°F	Roll	**4YT85**	1
¾ in x 82 ½ ft	13 mil	Black	600 V	175°F	Roll	**2GDF2**	60
1 ½ in x 82 ½ ft	13 mil	Black	600 V	175°F	Roll	**2JMU6**	30
Epoxy Tape with Acrylic Adhesive 3M™ Series 20							
1 in x 180 ft	5 mil	White	600 V	310°F	Roll	**2GDG8**	36
Glass Cloth Tape with Rubber Adhesive 3M™ Scotch® Series 27							
¼ in x 180 ft	7 mil	White	600 V	300°F	Roll	**40P211**	1
½ in x 66 ft	7 mil	White	600 V	265°F	Roll	**2A456**	1
½ in x 180 ft	7 mil	White	600 V	300°F	Roll	**2GCX9**	72
¾ in x 66 ft	7 mil	White	600 V	265°F	Roll	**2A457**	1
1 in x 180 ft	5 mil	White	600 V	—	Roll	**50WE39**	1
	7 mil	White	600 V	300°F	Roll	**2GDH2**	36
Glass Cloth Tape with Silicone Adhesive 3M™ Scotch® Series 69							
¾ in x 66 ft	7 mil	White	600 V	390°F	Roll	**2A458**	1
Glass Cloth Tape with Silicone Adhesive 3M™ Series 69							
2 in x 108 ft	7 mil	White	600 V	360°F	Roll	**15D095**	1
Polyester Tape with Acrylic Adhesive 3M™ Series 1318-1							
¼ in x 216 ft	1 mil	Yellow	Not Rated	265°F	Roll	**15D060**	1
½ in x 216 ft	1 mil	Yellow	Not Rated	265°F	Roll	**15D061**	1
¾ in x 216 ft	1 mil	Yellow	Not Rated	265°F	Roll	**15D062**	1
1 in x 216 ft	1 mil	Yellow	Not Rated	265°F	Roll	**15D063**	1
Polyester Tape with Acrylic Adhesive 3M™ Series 1350F							
¼ in x 216 ft	2.5 mil	Black	Not Rated	265°F	Roll	**15D070**	1
	2.5 mil	White	Not Rated	265°F	Roll	**15D071**	1
½ in x 216 ft	2.5 mil	Black	Not Rated	265°F	Roll	**15D073**	1
	2.5 mil	White	Not Rated	265°F	Roll	**15D074**	1
	2.5 mil	Yellow	Not Rated	265°F	Roll	**15D075**	1
¾ in x 216 ft	2.5 mil	Black	Not Rated	265°F	Roll	**15D076**	1
	2.5 mil	White	Not Rated	265°F	Roll	**15D077**	1
1 in x 216 ft	2.5 mil	Black	Not Rated	265°F	Roll	**15D079**	1
	2.5 mil	White	Not Rated	265°F	Roll	**15D080**	1
2 in x 216 ft	2.5 mil	Black	Not Rated	265°F	Roll	**15D082**	1
	2.5 mil	White	Not Rated	265°F	Roll	**15D083**	1
Polyester Tape with Rubber Adhesive 3M™ Series 54							
1 in x 216 ft	1 mil	Transparent	600 V	265°F	Roll	**2GEP7**	36
Varnished Cotton Cambric Tape with Adhesive 3M™ Scotch® Series 2510							
¾ in x 60 ft	7 mil	Yellow	Not Rated	220°F	Roll	**2FZG3**	20
¾ in x 108 ft	7 mil	Yellow	Not Rated	220°F	Roll	**2DPU5**	48
2 in x 108 ft	7 mil	Yellow	Not Rated	220°F	Roll	**2FZH4**	16
Varnished Cotton Cambric Tape with Rubber Adhesive 3M™ Scotch® Series 2520							
¾ in x 60 ft	8 mil	Yellow	Not Rated	220°F	Roll	**2FZP3**	20
¾ in x 108 ft	8 mil	Yellow	Not Rated	220°F	Roll	**4YT67**	1
1 in x 108 ft	8 mil	Yellow	Not Rated	220°F	Roll	**4YT68**	1
2 in x 108 ft	8 mil	Yellow	Not Rated	220°F	Roll	**2FZH6**	16
Corrosion-Protection							
Vinyl Tape with Rubber Adhesive 3M™ Scotchrap™ Series 50							
1 in x 100 ft	10 mil	Black	Not Rated	175°F	Roll	**2FYV1**	10
	10 mil	Black	Not Rated	175°F	Roll	**2DPU8**	48
2 in x 100 ft	10 mil	Black	Not Rated	175°F	Roll	**4DYX2**	1
	10 mil	Black	Not Rated	175°F	Roll	**2FZL5**	24
	10 mil	Black	Not Rated	175°F	Roll	**2FZL7**	24
3 in x 100 ft	10 mil	Black	Not Rated	175°F	Roll	**2FZJ3**	16
4 in x 100 ft	10 mil	Black	Not Rated	175°F	Roll	**2FYY1**	12
	10 mil	Black	Not Rated	175°F	Roll	**2FZG7**	12
6 in x 100 ft	10 mil	Black	Not Rated	175°F	Roll	**2JLJ5**	8
Vinyl Tape with Rubber Adhesive 3M™ Scotchrap™ Series 51							
1 in x 100 ft	20 mil	Black	Not Rated	175°F	Roll	**2FZL3**	24
	20 mil	Black	Not Rated	175°F	Roll	**2FZP9**	24
2 in x 100 ft	20 mil	Black	Not Rated	175°F	Roll	**2FZG9**	12
	20 mil	Black	Not Rated	175°F	Roll	**2FZH2**	12
4 in x 100 ft	20 mil	Black	Not Rated	175°F	Roll	**2DTF4**	4
	20 mil	Black	Not Rated	175°F	Roll	**2DTF2**	4
6 in x 100 ft	20 mil	Black	Not Rated	175°F	Roll	**2DTF6**	4
	20 mil	Black	Not Rated	175°F	Roll	**2DTF8**	4
High-Temperature							
FEP Tape with Silicone Adhesive TapeCase Series CTAPE							
1 in x 15 ft	3.5 mil	Transparent	Not Rated	400°F	Roll	**15D549**	1
1 in x 108 ft	3.5 mil	Transparent	Not Rated	400°F	Roll	**15D651**	1
2 in x 15 ft	3.5 mil	Transparent	Not Rated	400°F	Roll	**15D550**	1
Polyimide Tape with Acrylic Adhesive 3M™ Series 1205							
¼ in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C022**	1
¼ in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**2JMR3**	36
	3 mil	Amber	Not Rated	310°F	Roll	**15C028**	1
⅜ in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C032**	1
½ in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C021**	1

CONTINUED

CONTINUED Insulating Electrical Tape

Tape WxL	Thickness	Color	Voltage Rating	Max. Temp.	Product Form	Item No.	Pkg. Qty.
High-Temperature (Cont.)							
Polyimide Tape with Acrylic Adhesive 3M™ Series 1205 (Cont.)							
½ in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**2JPP5**	18
	3 mil	Amber	Not Rated	310°F	Roll	**15C027**	1
¾ in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C025**	1
¾ in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C031**	1
1 in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C023**	1
1 in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**2DVE2**	9
	3 mil	Amber	Not Rated	310°F	Roll	**15C029**	1
2 in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C024**	1
2 in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C030**	1
4 in x 15 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C035**	1
4 in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C033**	1
6 in x 108 ft	3 mil	Amber	Not Rated	310°F	Roll	**15C034**	1
Polyimide Tape with Acrylic Adhesive 3M™ Series 1218							
⅜ in x 108 ft	3 mil	Amber	600 V	355°F	Roll	**15C048**	1
½ in x 108 ft	3 mil	Amber	600 V	355°F	Roll	**15C043**	1
¾ in x 108 ft	3 mil	Amber	600 V	355°F	Roll	**15C047**	1
1 in x 108 ft	3 mil	Amber	600 V	355°F	Roll	**15C045**	1
Polyimide Tape with Acrylic Adhesive Dupont™ Series KHN-1-966							
12 in x 12 in	1 mil	Yellow	Not Rated	300°F	Squares	**15C543**	6
	3 mil	Yellow	Not Rated	300°F	Squares	**15C544**	6
Polyimide Tape with Non-Adhesive Dupont™ Series KHN							
½ in x 50 ft	1 mil	Amber	Not Rated	—	Roll	**15C514**	1
	5 mil	Amber	Not Rated	—	Roll	**15C515**	1
½ in x 100 ft	1 mil	Amber	Not Rated	—	Roll	**15C512**	1
	5 mil	Amber	Not Rated	—	Roll	**15C513**	1
1 in x 50 ft	1 mil	Amber	Not Rated	—	Roll	**15C516**	1
	5 mil	Amber	Not Rated	—	Roll	**15C517**	1
1 in x 100 ft	1 mil	Amber	Not Rated	—	Roll	**15C510**	1
	5 mil	Amber	Not Rated	—	Roll	**15C511**	1
2 in x 50 ft	1 mil	Amber	Not Rated	—	Roll	**15C520**	1
	5 mil	Amber	Not Rated	—	Roll	**15C521**	1
2 in x 100 ft	1 mil	Amber	Not Rated	—	Roll	**15C518**	1
	5 mil	Amber	Not Rated	—	Roll	**15C519**	1
3 in x 50 ft	1 mil	Amber	Not Rated	—	Roll	**15C525**	1
	5 mil	Amber	Not Rated	—	Roll	**15C526**	1
3 in x 100 ft	5 mil	Amber	Not Rated	—	Roll	**15C524**	1
4 in x 50 ft	5 mil	Amber	Not Rated	—	Roll	**15C530**	1
4 in x 100 ft	5 mil	Amber	Not Rated	—	Roll	**15C528**	1
5 in x 50 ft	5 mil	Amber	Not Rated	—	Roll	**15C534**	1
6 in x 50 ft	1 mil	Amber	Not Rated	—	Roll	**15C537**	1
	5 mil	Amber	Not Rated	—	Roll	**15C538**	1
6 in x 100 ft	1 mil	Amber	Not Rated	—	Roll	**15C535**	1
Polyimide Tape with Silicone Adhesive 3M™ Series 1093							
½ in x 108 ft	2.5 mil	Amber	Not Rated	355°F	Roll	**45J534**	1
¾ in x 108 ft	2.5 mil	Amber	Not Rated	355°F	Roll	**45J538**	1
1 in x 108 ft	2.5 mil	Amber	Not Rated	355°F	Roll	**45J533**	1
2 in x 108 ft	2.5 mil	Amber	Not Rated	355°F	Roll	**45J536**	1
Polyimide Tape with Silicone Adhesive 3M™ Series 5413							
¼ in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C421**	1
¼ in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C427**	1
⅜ in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C431**	1
½ in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C420**	1
½ in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C426**	1
¾ in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C424**	1
¾ in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C430**	1
1 in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C422**	1
1 in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C428**	1
2 in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C423**	1
2 in x 108 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C429**	1
4 in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C434**	1
6 in x 15 ft	2.7 mil	Amber	Not Rated	500°F	Roll	**15C435**	1
Polyimide Tape with Silicone Adhesive 3M™ Series 5419							
¼ in x 108 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C442**	1
½ in x 15 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C436**	1
½ in x 108 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C441**	1
¾ in x 108 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C445**	1
1 in x 15 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C438**	1
1 in x 108 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C443**	1
2 in x 108 ft	2.7 mil	Gold	Not Rated	500°F	Roll	**15C444**	1
Polyimide Tape with Silicone Adhesive 3M™ Series 92							
1 in x 108 ft	1 mil	Amber	Not Rated	355°F	Roll	**2DVD4**	9
PTFE Tape with Acrylic Adhesive 3M™ Series 63							
¾ in x 108 ft	2 mil	Transparent	600 V	305°F	Roll	**2JNV5**	12
PTFE Tape with Silicone Adhesive 3M™ Series 60							
½ in x 108 ft	4 mil	Transparent	600 V	355°F	Roll	**2JPP9**	18
1 in x 108 ft	4 mil	Transparent	600 V	355°F	Roll	**2GEH6**	9
PTFE Tape with Silicone Adhesive 3M™ Series 61							
½ in x 108 ft	7 mil	Transparent	600 V	355°F	Roll	**2JPP3**	18
PTFE Tape with Silicone Adhesive 3M™ Series 62							
½ in x 108 ft	4 mil	Transparent	Not Rated	355°F	Roll	**2JPT1**	18
1 in x 108 ft	4 mil	Transparent	Not Rated	355°F	Roll	**2DVE9**	9
Moisture-Resistant							
Electrical Putty Tape with Mastic Adhesive 3M™ Scotchfil™							
1 ½ in x 5 ft	125 mil	Black	600 V	175°F	Roll	**2FYV8**	12
Rubber Tape with Mastic Adhesive 3M™ Scotch® Series 2228							
1 in x 10 ft	65 mil	Black	1,000 V	190°F	Roll	**4YT87**	1
2 in x 10 ft	65 mil	Black	1,000 V	175°F	Roll	**2DTP1**	10
Rubber Tape with Mastic Adhesive 3M™ Scotch® Series 2229							
2 ½ in x 3 ¾ in	125 mil	Black	1,000 V	175°F	Strips	**2DPT9**	40
3 ¾ in x 3 ¾ in	125 mil	Black	1,000 V	175°F	Squares	**2DPU1**	40
3 ¾ in x 6 ½ in	125 mil	Black	1,000 V	175°F	Strips	**2DPU2**	40
3 ¾ in x 10 ft	125 mil	Black	1,000 V	175°F	Roll	**2JLH6**	8
Vinyl Tape with Mastic Adhesive 3M™ Scotch® Series 06149							
2 ½ in x 2 ½ in	45 mil	Black	600 V	175°F	Squares	**2JLL3**	250
Vinyl Tape with Mastic Adhesive 3M™ Scotch® Series 2200							
3 ¼ in x 4 ½ in	125 mil	Black	600 V	175°F	Strips	**5ZNH0**	10
Vinyl Tape with Mastic Adhesive 3M™ Scotch® Series 2229							
1 in x 10 ft	125 mil	Black	1,000 V	175°F	Roll	**4YT86**	1
Vinyl Tape with Rubber Adhesive 3M™ Scotch® Series 2200							
4 ½ in x 6 ½ in	125 mil	Black	600 V	175°F	Strips	**4YT78**	1
Arc Proofing							
Intumescent Elastomer Tape with Adhesive 3M™ Scotch® Series 77							
1 ½ in x 20 ft	30 mil	Black	600 V	80°F	Roll	**1GAA4**	1
	30 mil	Gry/Wht	600 V	80°F	Roll	**5ZNH1**	1

Conducting Electrical Tape

Primarily used for connecting flexible circuits, grounding a connection, or draining static charge. Also used for shielding components and circuits from unwanted signals that come from electromagnetic interference (EMI) and radio frequency interference (RFI). Has a non-conductive adhesive has a stronger bond and resists heat, oxidation, and discoloration.

2GEJ6

Tape WxL	Thickness	Color	Voltage Rating	Max. Temp.	Product Form	Item No.	Pkg. Qty.
General Purpose Foil							
Aluminum Tape with Acrylic Adhesive 3M™ Series 1120							
½ in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J541**	1
¾ in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J547**	1
2 in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J546**	1
3 in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J548**	1
11 ½ in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J542**	1
Aluminum Tape with Acrylic Adhesive 3M™ Series 1170							
¾ in x 54 ft	3.2 mil	Silver	600 V	265°F	Roll	**2JNV3**	12
1 in x 1 in	3.2 mil	Silver	600 V	265°F	Squares	**45J669**	5
1 in x 54 ft	3.2 mil	Silver	600 V	265°F	Roll	**2GEH3**	9
2 in x 54 ft	3.2 mil	Silver	600 V	265°F	Roll	**2GCA7**	5
Copper Tape with Acrylic Adhesive 3M™ Series 1125							
½ in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J589**	1
¾ in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J595**	1
1 in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J592**	1
2 in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J594**	1
3 in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J596**	1
4 in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J617**	1
6 in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J637**	1
11 ½ in x 18 ft	3.5 mil	Copper	600 V	265°F	Roll	**45J590**	1
23 in x 36 in	3.5 mil	Copper	600 V	265°F	Roll	**45J593**	1
Copper Tape with Acrylic Adhesive 3M™ Series 1181							
¼ in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C817**	1
¼ in x 54 ft	2.6 mil	Copper	600 V	265°F	Roll	**2JMX9**	36
⅜ in x 54 ft	2.6 mil	Copper	600 V	265°F	Roll	**2JMP9**	24
½ in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C816**	1
½ in x 54 ft	2.6 mil	Copper	600 V	265°F	Roll	**2JPR6**	18
¾ in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C820**	1
1 in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C818**	1
1 in x 54 ft	2.6 mil	Copper	600 V	265°F	Roll	**2GCA5**	9
2 in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C819**	1
3 in x 18 ft	2.6 mil	Copper	600 V	265°F	Roll	**15C821**	1
Copper Tape with Acrylic Adhesive 3M™ Series 1182							
½ in x 54 ft	3.5 mil	Copper	600 V	265°F	Roll	**2JPH2**	18
¾ in x 54 ft	3.5 mil	Copper	600 V	265°F	Roll	**2JNX3**	12
1 in x 54 ft	3.5 mil	Copper	600 V	265°F	Roll	**2GDV8**	9
Copper Tape with Acrylic Adhesive 3M™ Series 1194							
1 in x 108 ft	2.6 mil	Copper	600 V	150°F	Roll	**2GCA3**	12
Copper Tape with Acrylic Adhesive 3M™ Series 1245							
¾ in x 54 ft	4 mil	Copper	600 V	—	Roll	**2JNW6**	12
1 in x 54 ft	4 mil	Copper	600 V	—	Roll	**2GEJ6**	9
Copper Tape with Acrylic Adhesive TapeCase Series CFL-5CA							
1 in x 18 ft	3.5 mil	Copper	Not Rated	310°F	Roll	**15D566**	1
Ultra-Conductive Embossed Foil							
Aluminum Tape with Acrylic Adhesive 3M™ Series 1267							
½ in x 18 ft	5 mil	Silver	600 V	265°F	Roll	**45J715**	1
1 in x 18 ft	5 mil	Silver	600 V	265°F	Roll	**45J718**	1
2 in x 18 ft	5 mil	Silver	600 V	265°F	Roll	**45J720**	1
3 in x 18 ft	5 mil	Silver	600 V	265°F	Roll	**45J722**	1
Tin-Plated Copper Tape with Acrylic Adhesive 3M™ Series 1345							
¼ in x 54 ft	4 mil	Silver	600 V	265°F	Roll	**2JMY3**	36
½ in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J763**	1
½ in x 54 ft	4 mil	Silver	600 V	265°F	Roll	**2JPR4**	18
¾ in x 54 ft	4 mil	Silver	600 V	265°F	Roll	**2JNX1**	12
1 in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J766**	1
2 in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J768**	1
4 in x 18 ft	4 mil	Silver	600 V	265°F	Roll	**45J790**	1
Non-Conductive Adhesive Foil							
Copper Tape with Acrylic Adhesive 3M™ Series 1194							
¼ in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C828**	1
½ in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C827**	1
¾ in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C831**	1
1 in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C829**	1
2 in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C830**	1
3 in x 18 ft	2.6 mil	Copper	600 V	150°F	Roll	**15C832**	1
Copper Tape with Acrylic Adhesive TapeCase Series CFL-5A							
2 in x 18 ft	3.5 mil	Copper	Not Rated	310°F	Roll	**15D561**	1
EMI Absorbing							
Polymer Resin Tape with Acrylic Adhesive 3M™ Series AB5010							
2 ¹⁄₁₆ in x 12 ft	3.9 mil	Gray	Not Rated	185°F	Roll	**45K293**	1

4YF48

Heat Shrink & Cold Shrink Tubing Assortment Kits

Heat shrink and cold shrink tubing assortment kits include different sizes or colors of tubing or multiple tubes in the same size.

No. of Pieces	I.D. Before Shrinking	Shrink Ratio	L	Includes	Color	Brand	Item No.
Heat Shrink Tubing Assortment Kits							
Multiple Sizes, Cross-Linked Polyolefin							
74	1 in, ½ in, ¼ in, 3⁄16 in, ¾ in, ⅜ in	2:1	6 in	(20) ¼ in, (32) 3⁄16 in, (4) 1 in, (4) ¾ in, (6) ½ in, (8) ⅜ in, Plastic Storage Case	Black	Shrink-Kon	**4YF48**
Multiple Sizes, Polyolefin							
8	½ in, ¾ in 1 in, ⅜ in	2:1	6 in	(2) 1 in, (2) ½ in, (2) ¾ in, (2) ⅜ in	Black	Panduit	**3YWR4**
42	1 in, ½ in, ¾ in	3:1	6 in	(12) ¾ in, (24) ½ in, (6) 1 in	Black, Red	3M	**4KNE8**
86	1 in, ½ in, ¼ in, 3⁄16 in, ¾ in, ⅜ in	2:1	6 in	(12) ⅜ in Red, (24) ¼ in White, (36) 3⁄16 in Black, (4) 1 in Red, (4) ¾ in White, (6) ½ in Black	Black, Red, White	Velvac	**3ULU8**
102	1 in, ½ in, ¼ in, 3⁄16 in, ¾ in, ⅜ in	2:1	6 in	(14) ½ in, (20) ⅜ in, (28) ¼ in, (30) 3⁄16 in, (4) 1 in, (6) ¾ in	Black	3M	**4NU24**
126	½ in, ¼ in, ⅛ in, 3⁄16 in, 3⁄32 in, ⅜ in	2:1	6 in	(21) ¼ in (3 ea color), (21) 3⁄16 in (3 ea color), (35) ⅛ in (5 ea color), (35) 3⁄32 in (5 ea color), (7) ½ in (1 ea color), (7) ⅜ in (1 ea color)	Black, Blue, Clear, Green, Red, White, Yellow	Panduit	**3YWT4**

No. of Pieces	I.D. Before Shrinking	Shrink Ratio	L	Includes	Color	Brand	Item No.
Multiple Sizes, PVC							
5	1⁄16 in, ¼ in, ⅛ in, 3⁄16 in, ⅜ in	2:1	Assorted	1⁄16 in x 100 ft, ¼ in x 25 ft, ⅛ in x 25 ft, 3⁄16 in x 25 ft, ⅜ in x 25 ft, Mini-Spool Pull-Pak	Black	Insultab	**4WNJ2**
175	¼ in, ⅛ in, 3⁄16 in, 3⁄32 in, ⅜ in	2:1	6 in	(35) ¼ in, (35) ⅛ in, (35) 3⁄16 in, (35) 3⁄32 in, (35) ⅜ in	Black	Insultab	**4WNJ3**
Single Size, Polyolefin							
14	⅜ in	2:1	6 in	(2) Black, (2) Blue, (2) Clear, (2) Green, (2) Red, (2) White, (2) Yellow	Black, Blue, Clear, Green, Red, White, Yellow	3M	**4NU38**
28	⅛ in	2:1	6 in	(4) Black, (4) Blue, (4) Clear, (4) Green, (4) Red, (4) White, (4) Yellow	Black, Blue, Clear, Green, Red, White, Yellow	3M	**4NU35**

No. of Pieces	Use With Wire Size	Shrink Ratio	L	Includes	Color	Brand	Item No.
Cold Shrink Tubing Assortment Kits							
Single Size, EPDM Rubber							
40	0.25 in to 0.88 in	2:1	9 in	(40) Tubes with Plastic Cores	Black	3M	**2DPT5**
40	0.25 in to 0.88 in	2:1	10 in		Black	3M	**2DPP9**
40	0.25 in to 1.62 in	2:1	9 in		Black	3M	**2DPT7**

Adhesive-Lined Heat Shrink Tubing

- Black Color

4NU14

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	L	Brand	Item No.	Pkg. Qty.
Split-Resistant & Adhesive-Lined Heat Shrink Tubing						
3:1 Shrink Ratio, Cross-Linked Polyolefin						
0.8 in	0.2 in	0.11 in	4 ft	3M	**4NU14**	5
1.5 in	0.5 in	0.17 in	9 in	3M	**4NU21**	3
3:1 Shrink Ratio, Cross-Linked Polyolefin with Adhesive						
2 in	0.07 in	0.17 in	12 in	3M	**2GCN2**	50
	0.07 in	0.17 in	4 ft	3M	**2GEX7**	20
	0.07 in	0.17 in	9 in	3M	**2JNY2**	50
	0.07 in	0.17 in	9 in	3M	**2JPA4**	10
	0.07 in	0.17 in	12 in	3M	**2JPE5**	10
	0.07 in	0.17 in	4 ft	3M	**4NU17**	5
0.35 in	0.12 in	0.07 in	6 in	Shrink-Kon	**3KH62**	25
	0.12 in	0.07 in	4 ft	Shrink-Kon	**3KH63**	5
0.4 in	0.15 in	0.02 in	6 in	3M	**30N571**	3
	0.15 in	0.09 in	6 in	3M	**2DVF4**	100
	0.15 in	0.09 in	6 in	3M	**2GER4**	25
	0.15 in	0.09 in	4 ft	3M	**2JPH4**	20
	0.15 in	0.09 in	4 ft	3M	**4NU13**	5
0.51 in	0.16 in	0.09 in	6 in	Shrink-Kon	**3KH64**	25
0.8 in	0.2 in	0.02 in	6 in	3M	**30N573**	3
	0.2 in	0.11 in	6 in	3M	**2DVF6**	100
	0.2 in	0.11 in	9 in	3M	**2DVF8**	100
	0.2 in	0.11 in	12 in	3M	**2DVG3**	100
	0.2 in	0.11 in	6 in	3M	**2JMK7**	25
	0.2 in	0.11 in	12 in	3M	**2JMT3**	25
	0.2 in	0.11 in	9 in	3M	**2JNE3**	25
	0.2 in	0.11 in	4 ft	3M	**2JPJ5**	20
0.75 in	0.24 in	0.09 in	4 ft	Shrink-Kon	**3KH65**	5
1.1 in	0.35 in	0.12 in	9 in	Shrink-Kon	**3KH66**	10
	0.35 in	0.12 in	4 ft	Shrink-Kon	**3KH67**	5
	0.37 in	0.11 in	9 in	3M	**2DVG5**	100
	0.37 in	0.11 in	12 in	3M	**2DVG7**	100
	0.37 in	0.12 in	6 in	3M	**2DVG1**	100
	0.37 in	0.12 in	9 in	3M	**2JMR9**	25
	0.37 in	0.12 in	6 in	3M	**2JMV6**	25
	0.37 in	0.12 in	12 in	3M	**2JNZ9**	10
	0.37 in	0.12 in	4 ft	3M	**2JPK2**	20
	0.37 in	0.12 in	4 ft	3M	**4NU15**	5
	0.37 in	0.17 in	9 in	3M	**30N575**	3
1.5 in	0.47 in	0.16 in	12 in	Shrink-Kon	**3KH68**	5
	0.47 in	0.16 in	4 ft	Shrink-Kon	**3KH69**	5
	0.5 in	0.17 in	9 in	3M	**2JMU2**	50
	0.5 in	0.17 in	9 in	3M	**2JPA2**	10
	0.5 in	0.17 in	12 in	3M	**2JPA6**	10
	0.5 in	0.17 in	12 in	3M	**2JRG2**	50
	0.5 in	0.17 in	4 ft	3M	**2JRK4**	20
	0.5 in	0.17 in	4 ft	3M	**4NU16**	5
2 in	0.63 in	0.16 in	15 in	Shrink-Kon	**3KH70**	2
	0.63 in	0.16 in	4 ft	Shrink-Kon	**3KH71**	2
	0.65 in	0.17 in	12 in	3M	**4NU22**	3
3 in	1 in	0.17 in	4 ft	3M	**2DVE7**	5
	1 in	0.17 in	12 in	3M	**2GCN4**	50
	1 in	0.17 in	4 ft	3M	**2GEY1**	20
	1 in	0.17 in	12 in	3M	**2JPC1**	10
4.5 in	1.5 in	0.17 in	4 ft	3M	**2GEY4**	20
6 in	1.8 in	0.09 in	4 ft	3M	**2GEY7**	20
3:1 Shrink Ratio, Polyolefin with Adhesive						
0.13 in	0.04 in	0.04 in	4 ft	3M	**2GDC8**	25
	0.04 in	0.04 in	4 ft	3M	**2GEG3**	25
	0.04 in	0.04 in	4 ft	3M	**2JNG1**	250
0.19 in	0.06 in	0.02 in	6 in	3M	**30N551**	10
	0.06 in	0.04 in	4 ft	3M	**2JMR7**	12
	0.06 in	0.04 in	4 ft	3M	**2JNK9**	250
	0.06 in	0.04 in	4 ft	3M	**4KND7**	12
0.25 in	0.08 in	0.02 in	6 in	3M	**30N547**	10
	0.08 in	0.02 in	4 ft	3M	**4KND8**	12
	0.08 in	0.04 in	4 ft	3M	**2GEK4**	200
	0.08 in	0.04 in	4 ft	3M	**2JRP2**	12
0.38 in	0.12 in	0.03 in	6 in	3M	**30N554**	10
	0.12 in	0.06 in	4 ft	3M	**2GCJ1**	125
	0.12 in	0.06 in	4 ft	3M	**4KND9**	12
0.5 in	0.16 in	0.03 in	6 in	3M	**30N545**	10
	0.16 in	0.07 in	4 ft	3M	**2GER5**	75
	0.16 in	0.07 in	4 ft	3M	**4KNE1**	12
1 in	0.24 in	0.11 in	4 ft	Raychem	**23PE55**	1
0.75 in	0.25 in	0.04 in	6 in	3M	**30N552**	10
	0.25 in	0.09 in	4 ft	3M	**2JML2**	45
	0.25 in	0.09 in	4 ft	3M	**4KNE2**	5
1 in	0.32 in	0.04 in	6 in	3M	**30N549**	10
	0.32 in	0.1 in	4 ft	3M	**2JRD1**	24
	0.32 in	0.1 in	4 ft	3M	**4KNE3**	5
1.3 in	0.32 in	0.16 in	4 ft	Raychem	**23PE59**	1
1.9 in	0.47 in	0.18 in	4 ft	Raychem	**23PE63**	1
	0.47 in	0.18 in	9 in	Raychem	**23PE64**	40
1.5 in	0.51 in	0.04 in	6 in	3M	**30N548**	3
	0.51 in	0.1 in	4 ft	3M	**2JRR7**	24
	0.51 in	0.1 in	4 ft	3M	**4KNE4**	5
2.2 in	0.63 in	0.17 in	4 ft	Raychem	**23PE66**	1
	0.63 in	0.17 in	9 in	Raychem	**23PE67**	30
4:1 Shrink Ratio, Polyolefin with Adhesive						
0.35 in	0.08 in	0.03 in	4 ft	3M	**2GCH4**	125
0.47 in	0.12 in	0.08 in	4 ft	Raychem	**23PE49**	1
	0.12 in	0.08 in	6 in	Raychem	**23PE50**	50
1 in	0.24 in	0.11 in	6 in	Raychem	**23PE56**	50
1.3 in	0.32 in	0.16 in	6 in	Raychem	**23PE60**	50
High Strength Adhesive-Lined Heat Shrink Tubing						
2:1 Shrink Ratio, Polyolefin with Adhesive						
0.13 in	0.06 in	0.03 in	4 ft	3M	**2GDF7**	25
	0.06 in	0.03 in	4 ft	3M	**2JND1**	250
	0.06 in	0.03 in	6 in	3M	**40L333**	10
0.19 in	0.09 in	0.03 in	4 ft	3M	**2JMP4**	12
	0.09 in	0.03 in	4 ft	3M	**2JNH4**	250
	0.09 in	0.03 in	6 in	3M	**40L335**	10
0.25 in	0.13 in	0.03 in	4 ft	3M	**2GEF9**	12
	0.13 in	0.03 in	4 ft	3M	**2GEK7**	200
	0.13 in	0.03 in	6 in	3M	**40L332**	10
0.38 in	0.19 in	0.03 in	4 ft	3M	**2GCJ7**	125
	0.19 in	0.03 in	4 ft	3M	**2GDC4**	12
	0.19 in	0.03 in	6 in	3M	**40L337**	10
0.5 in	0.25 in	0.03 in	4 ft	3M	**2GDF5**	12
	0.25 in	0.03 in	4 ft	3M	**2GDZ7**	75
	0.25 in	0.03 in	6 in	3M	**40L331**	10
0.75 in	0.38 in	0.04 in	4 ft	3M	**2GDZ5**	5
	0.38 in	0.04 in	4 ft	3M	**2JMN5**	45
	0.38 in	0.04 in	6 in	3M	**40L336**	10
1 in	0.5 in	0.05 in	4 ft	3M	**2GCY5**	5
	0.5 in	0.05 in	4 ft	3M	**2JRK7**	24
	0.5 in	0.05 in	6 in	3M	**40L334**	100
1.5 in	0.75 in	0.05 in	4 ft	3M	**2JRD5**	24
	0.75 in	0.05 in	6 in	3M	**36L585**	3
2 in	1 in	0.06 in	4 ft	3M	**2JPL8**	2
	1 in	0.06 in	4 ft	3M	**2JRN3**	24
4:1 Shrink Ratio, Polyolefin with Adhesive						
0.35 in	0.08 in	0.03 in	6 in	3M	**40L339**	100
0.45 in	0.11 in	0.05 in	4 ft	3M	**2GEY5**	75
	0.11 in	0.05 in	6 in	3M	**40L340**	100
General Purpose Adhesive-Lined Heat Shrink Tubing						
2.5:1 Shrink Ratio, Modified Polyvinylidene Fluoride with Adhesive						
0.38 in	0.14 in	0.05 in	4 ft	3M	**2GCJ5**	125
2.5:1 Shrink Ratio, Polyolefin with Adhesive						
0.13 in	0.02 in	0.02 in	4 ft	3M	**4NKZ1**	25
	0.02 in	0.04 in	4 ft	3M	**2JNJ1**	250
	0.02 in	0.04 in	6 in	3M	**40L353**	100
0.19 in	0.06 in	0.04 in	4 ft	3M	**2JNF4**	250
	0.06 in	0.04 in	6 in	3M	**40L355**	100
0.25 in	0.08 in	0.03 in	4 ft	3M	**4NKZ3**	12
	0.08 in	0.05 in	4 ft	3M	**2GEN1**	200
	0.08 in	0.05 in	6 in	3M	**40L352**	100
0.38 in	0.14 in	0.03 in	4 ft	3M	**4NKZ4**	12
	0.14 in	0.05 in	6 in	3M	**40L357**	100
0.5 in	0.2 in	0.04 in	4 ft	3M	**4NKZ5**	12
0.75 in	0.31 in	0.04 in	4 ft	3M	**4NKZ6**	5
	0.31 in	0.07 in	4 ft	3M	**2JMK5**	45
1 in	0.4 in	0.04 in	4 ft	3M	**4NKZ7**	5
	0.4 in	0.08 in	4 ft	3M	**2JRK9**	24
	0.4 in	0.08 in	6 in	3M	**40L354**	100
3:1 Shrink Ratio, Polyolefin with Adhesive						
0.4 in	0.15 in	0.09 in	4 ft	3M	**2JPF2**	20
0.8 in	0.22 in	0.1 in	4 ft	3M	**2JPF6**	20
1.1 in	0.37 in	0.1 in	4 ft	3M	**2JPF8**	20
1.3 in	0.43 in	0.1 in	4 ft	3M	**2JPG3**	20
1.5 in	0.5 in	0.1 in	4 ft	3M	**2JPG5**	20
0.17 in	0.6 in	0.1 in	4 ft	3M	**2JPK4**	20
2 in	0.75 in	0.1 in	4 ft	3M	**2JPE3**	15
3 in	1 in	0.12 in	4 ft	3M	**2JPK8**	15
4.3 in	1.5 in	0.15 in	4 ft	3M	**2JPY6**	10
Flame Retardant & Adhesive-Lined Heat Shrink Tubing						
3:1 Shrink Ratio, Cross-Linked Polyolefin with Adhesive						
0.4 in	0.15 in	0.06 in	4 ft	IDEAL	**29UJ83**	5
	0.15 in	0.06 in	6 in	IDEAL	**29UJ84**	10
0.75 in	0.24 in	0.09 in	4 ft	IDEAL	**29UJ86**	5
	0.24 in	0.09 in	6 in	IDEAL	**29UJ87**	5
	0.24 in	0.09 in	9 in	IDEAL	**29UJ88**	5
1.1 in	0.35 in	0.12 in	4 ft	IDEAL	**29UJ89**	5
	0.35 in	0.12 in	6 in	IDEAL	**29UJ90**	5
	0.35 in	0.12 in	9 in	IDEAL	**29UJ91**	5
1.5 in	0.47 in	0.16 in	12 in	IDEAL	**29UJ92**	10
	0.47 in	0.16 in	4 ft	IDEAL	**29UJ93**	5
	0.47 in	0.16 in	9 in	IDEAL	**29UJ94**	5
2 in	0.63 in	0.16 in	18 in	IDEAL	**29UJ95**	4
	0.63 in	0.16 in	4 ft	IDEAL	**29UJ96**	2
	0.63 in	0.16 in	9 in	IDEAL	**29UJ97**	5
3:1 Shrink Ratio, Polyolefin with Adhesive						
0.3 in	0.1 in	0.08 in	4 ft	3M	**2JPE7**	20
0.4 in	0.15 in	0.08 in	4 ft	Raychem	**28DU32**	25
	0.15 in	0.09 in	4 ft	3M	**2JPH6**	20
0.8 in	0.2 in	0.11 in	4 ft	3M	**2JPJ3**	20
	0.2 in	0.11 in	4 ft	3M	**4KND5**	20
0.7 in	0.25 in	0.1 in	4 ft	Raychem	**28DU27**	25
1.1 in	0.37 in	0.12 in	4 ft	3M	**2JPJ9**	20
	0.4 in	0.13 in	4 ft	Raychem	**28DU28**	25
1.5 in	0.5 in	0.16 in	4 ft	Raychem	**28DU29**	10
	0.5 in	0.17 in	4 ft	3M	**2JNA3**	20
2 in	0.65 in	0.17 in	4 ft	3M	**2JNY6**	10
	0.7 in	0.16 in	4 ft	Raychem	**28DU30**	10
2.7 in	0.95 in	0.16 in	4 ft	Raychem	**28DU31**	10
3 in	1 in	0.08 in	4 ft	3M	**2JPC5**	10
3.5 in	1.3 in	0.16 in	4 ft	Raychem	**28DU33**	5
4.5 in	1.5 in	0.17 in	4 ft	3M	**2DVE8**	5
4.7 in	1.75 in	0.16 in	4 ft	Raychem	**28DU26**	5
6 in	1.8 in	0.17 in	4 ft	3M	**2DVE1**	5
7 in	2 in	0.17 in	4 ft	3M	**2DVD8**	5

Raychem 3M INSULTAB

All Purpose Heat Shrink Tubing

Covers wire and cable and shrinks when heat is applied to create tightly sealed bundles. Also known as single- or thin-wall heat shrink tubing, it is used across a wide variety of applications to insulate, protect, bundle, and provide strain relief for wire and cable.

H4859

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	L	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Standard Heat Shrink Tubing							
2:1 Shrink Ratio, Polyolefin							
0.05 in	0.02 in	0.02 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4859	25
	0.02 in	0.02 in	2,953 ft		Raychem	H4890	1
	0.02 in	0.02 in	4 ft	Black	3M	2GDR2	25
0.06 in	0.03 in	0.02 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4860	25
	0.03 in	0.02 in	25 ft		Raychem	H4871	1
	0.03 in	0.02 in	2,953 ft		Raychem	H4891	1
	0.03 in	0.02 in	4 ft	Black	3M	2GDR8	25
	0.03 in	0.02 in	6 in		3M	40L342	10
0.09 in	0.05 in	0.02 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4861	25
	0.05 in	0.02 in	25 ft		Raychem	H4872	1
	0.05 in	0.02 in	1,476 ft		Raychem	H4888	1
	0.05 in	0.02 in	6 in	Black, Clear	3M	G6979	10
	0.05 in	0.02 in	100 ft		3M	D1911	1
0.13 in	0.06 in	0.02 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4862	25
	0.06 in	0.02 in	25 ft		Raychem	H4873	1
	0.06 in	0.02 in	6 in	Black, Clear	3M	G6977	10
0.19 in	0.09 in	0.02 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4863	25
	0.09 in	0.02 in	25 ft		Raychem	H4874	1
	0.09 in	0.02 in	984 ft		Raychem	H4887	1
	0.09 in	0.02 in	6 in	Black, Clear	3M	G6978	10
	0.09 in	0.02 in	100 ft		3M	D1909	1
0.25 in	0.13 in	0.03 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4864	25
	0.13 in	0.03 in	25 ft		Raychem	H4875	1
	0.13 in	0.03 in	100 ft	Black, Clear	3M	D1905	1
0.38 in	0.19 in	0.03 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4865	25
	0.19 in	0.03 in	25 ft		Raychem	H4876	1
	0.19 in	0.03 in	394 ft		Raychem	H4885	1
	0.19 in	0.03 in	6 in	Black, Clear	3M	G6981	10
	0.19 in	0.03 in	200 ft	Black	Raychem	22KZ76	1
0.5 in	0.25 in	0.03 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4866	25
	0.25 in	0.03 in	25 ft		Raychem	H4877	1
	0.25 in	0.03 in	295 ft	Black, Blue, Clear, Green, Red, Yellow	Raychem	H4884	1
	0.25 in	0.03 in	100 ft	Black, Clear	3M	D1904	1
0.75 in	0.38 in	0.03 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4867	25
	0.38 in	0.03 in	25 ft		Raychem	H4878	1
	0.38 in	0.03 in	246 ft		Raychem	H4882	1
	0.38 in	0.03 in	4 ft	Black, Clear	3M	D1898	12
	0.38 in	0.03 in	50 ft		3M	D1912	1
1 in	0.5 in	0.04 in	4 ft	Black, Blue, Clear, Green, Red, White	Raychem	H4868	10
	0.5 in	0.04 in	25 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4879	1
	0.5 in	0.04 in	246 ft		Raychem	H4883	1
	0.5 in	0.04 in	50 ft	Black, Clear	3M	D1902	1
1.5 in	0.75 in	0.04 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4869	25
	0.75 in	0.04 in	25 ft		Raychem	H4880	1
	0.75 in	0.04 in	125 ft		Raychem	H8178	1
	0.75 in	0.04 in	6 in	Black, Clear	3M	G6974	3
	0.75 in	0.04 in	100 ft	Black, Clear, White	3M	D1901	1
2 in	1 in	0.05 in	4 ft	Black, Blue, Clear, Green, Red, White, Yellow	Raychem	H4870	25
	1 in	0.05 in	25 ft	Black, Blue, Clear, Red, White, Yellow	Raychem	H4881	1
	1 in	0.05 in	100 ft	Black, Blue, Yellow	3M	D1907	1
2:1 Shrink Ratio, Polyolefin with Adhesive							
1 in	0.5 in	0.05 in	6 in	Black	3M	40L334	100
2:1 Shrink Ratio, Polyolefin							
0.25 in	0.13 in	0.03 in	492 ft	Blue, Clear, Green, Red, White, Yellow	Raychem	H4886	1
3 in	1.5 in	0.05 in	50 ft	Blue, Yellow	3M	D1908	1
0.06 in	0.03 in	0.02 in	6 in	Clear	3M	40L343	10

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	Color	Brand	6 in Item No.	6 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.
Severe Outdoor Environment Heat Shrink Tubing								
2:1 Shrink Ratio, Modified Chlorinated Polyolefin								
0.13 in	0.07 in	0.03 in	Black	Insultab	4WMY7	5	4WMZ8	5
0.19 in	0.11 in	0.04 in	Black	Insultab	4WMY8	5	4WMZ9	5
0.25 in	0.13 in	0.04 in	Black	Insultab	4WMY9	5	4WNA1	5
0.38 in	0.19 in	0.04 in	Black	Insultab	4WMZ1	5	4WNA2	5
0.5 in	0.25 in	0.05 in	Black	Insultab	4WMZ2	5	4WNA3	5
0.63 in	0.31 in	0.05 in	Black	Insultab	4WMZ3	5	4WNA4	5
0.75 in	0.38 in	0.06 in	Black	Insultab	4WMZ4	5	4WNA5	5
1 in	0.5 in	0.07 in	Black	Insultab	4WMZ5	5	4WNA6	5
1.5 in	0.75 in	0.1 in	Black	Insultab	4WMZ6	5	4WNA7	5

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	L	Brand	Black Item No.	Clear Item No.
Chemical-Resistant PVC Heat Shrink Tubing						
2:1 Shrink Ratio, PVC						
2 in	1 in	0.05 in	10 ft	Insultab	4WNG4	4WNH3
	1 in	0.05 in	50 ft	Insultab	4WNG8	4WNH7
2.5 in	1.25 in	0.06 in	10 ft	Insultab	4WNG5	4WNH4
	1.25 in	0.06 in	50 ft	Insultab	4WNG9	4WNH8
3 in	1.5 in	0.07 in	5 ft	Insultab	4WNG6	4WNH5
	1.5 in	0.07 in	25 ft	Insultab	4WNH1	4WNH9
4 in	2 in	0.07 in	5 ft	Insultab	4WNG7	4WNH6
	2 in	0.07 in	25 ft	Insultab	4WNH2	4WNJ1

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	Color	Brand	6 in Item No.	6 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.
Transparent Abrasion-, Chemical- & Heat-Resistant PVDF Shrink Tubing								
2:1 Shrink Ratio, Modified Polyvinylidene Fluoride								
0.05 in	0.02 in	0.01 in	Clear	3M	40L350	100	4NLA3	25
0.06 in	0.03 in	0.01 in	Clear	3M	36L586	10	2GDX8	25
	0.03 in	0.01 in	Clear	Insultab	4WMW2	5	4WMX5	5
0.09 in	0.05 in	0.01 in	Clear	Insultab	4WMW3	5	4WMX6	5
0.13 in	0.06 in	0.01 in	Clear	3M	40L347	100	2GEX3	25
	0.06 in	0.01 in	Clear	Insultab	4WMW4	5	4WMX7	5
0.19 in	0.09 in	0.01 in	Clear	3M	40L348	10	2JMR4	12
	0.09 in	0.01 in	Clear	Insultab	4WMW5	5	4WMX8	5
0.25 in	0.13 in	0.01 in	Clear	3M	40L346	100	2GCL8	12
	0.13 in	0.01 in	Clear	Insultab	4WMW6	5	4WMX9	5
0.38 in	0.19 in	0.01 in	Clear	3M	40L351	100	2GDZ8	12
	0.19 in	0.01 in	Clear	Insultab	4WMW7	5	4WMY1	5
0.5 in	0.25 in	0.01 in	Clear	3M	40L345	100	4NLC1	5
	0.25 in	0.01 in	Clear	Insultab	4WMW8	5	4WMY2	5
0.63 in	0.31 in	0.01 in	Clear	Insultab	4WMW9	5	4WMY3	5
0.75 in	0.38 in	0.02 in	Clear	3M	40L349	100	—	
1 in	0.5 in	0.02 in	Clear	Insultab	4WMX2	5	4WMY5	5
1.5 in	0.75 in	0.02 in	Clear	Insultab	4WMX3	5	4WMY6	5

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	Color	Brand	6 in Item No.	6 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.	100 ft Item No.	100 ft Pkg. Qty.
Food Grade Heat Shrink Tubing										
2:1 Shrink Ratio, Acrylate Olefin										
0.09 in	0.05 in	0.02 in	Black	Insultab	4WMR1	5	4WMR7	5	4WMT4	1
0.13 in	0.06 in	0.02 in	Black	Insultab	4WMR2	5	—		4WMT5	1
0.19 in	0.09 in	0.02 in	Black	Insultab	4WMR3	5	4WMR9	5	4WMT6	1
0.25 in	0.13 in	0.03 in	Black	Insultab	4WMR4	5	4WMT1	5	4WMT7	1
0.38 in	0.19 in	0.03 in	Black	Insultab	4WMR5	5	4WMT2	5	4WMT8	1
0.5 in	0.25 in	0.03 in	Black	Insultab	4WMR6	5	4WMT3	5	4WMT9	1

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	Color	Brand	6 in Item No.	6 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.
Fuel- & Oil-Resistant Heat Shrink Tubing								
2:1 Shrink Ratio, Modified Elastomer								
0.13 in	0.06 in	0.03 in	Black	Insultab	4WND1	5	4WNE2	5
0.19 in	0.09 in	0.04 in	Black	Insultab	4WND2	5	—	
0.25 in	0.13 in	0.04 in	Black	Insultab	4WND3	5	—	
0.38 in	0.19 in	0.04 in	Black	Insultab	4WND4	5	4WNE5	5
0.5 in	0.25 in	0.04 in	Black	Insultab	4WND5	5	4WNE6	5
0.63 in	0.31 in	0.04 in	Black	Insultab	4WND6	5	—	
0.75 in	0.38 in	0.04 in	Black	Insultab	4WND7	5	4WNE8	5
1 in	0.5 in	0.05 in	Black	Insultab	4WND8	5	4WNE9	5
1.5 in	0.75 in	0.06 in	Black	Insultab	4WND9	5	4WNF1	5
2 in	1 in	0.07 in	Black	Insultab	4WNE1	5	4WNF2	5

I.D. Before Shrinking	I.D. After Shrinking	Wall Thickness After Shrinking	Color	Brand	6 in Item No.	6 in Pkg. Qty.	4 ft Item No.	4 ft Pkg. Qty.	100 ft Item No.	100 ft Pkg. Qty.
Medical Grade Heat Shrink Tubing										
2:1 Shrink Ratio, Acrylate Olefin										
0.09 in	0.05 in	0.02 in	Black	Insultab	4WMU1	5	4WMU7	5	4WMV4	1
0.13 in	0.06 in	0.02 in	Black	Insultab	4WMU2	5	4WMU8	5	4WMV5	1
0.19 in	0.09 in	0.02 in	Black	Insultab	4WMU3	5	4WMU9	5	4WMV6	1
0.25 in	0.13 in	0.03 in	Black	Insultab	4WMU4	5	4WMV1	5	4WMV7	1
0.38 in	0.19 in	0.03 in	Black	Insultab	4WMU5	5	4WMV2	5	4WMV8	1
0.5 in	0.25 in	0.03 in	Black	Insultab	4WMU6	5	—		4WMV9	1

5PYR3

54XX99

54XY08

4Z717

Heat Guns and Blower

Heat guns are ideal for various applications. They can help to shrink tubing, bend plastics, cure adhesives, heat or dry parts, or strip paint.

Temperature Range	Current	Heat Gun Handle Style	Max. Air Flow	Includes	Item No.
Heat Gun Kit					
650 °F	2 A	Pistol	3.8 cfm	Shrink Attachment, Wire Bench Stand	5PYR3
400 °F	5 A	Pistol	9 cfm	Reducer Attachment, Shrink Attachment, Spreader Attachment	54XX99
800 °F	12 A	Pistol	9 cfm	Reducer Attachment, Shrink Attachment, Spreader Attachment	54XY04
1,200 °F	14.5 A	Pistol	9 cfm	Reducer Attachment, Shrink Attachment, Spreader Attachment	54XY08
Heat Blower					
500 °F	14 A	Loop	47 cfm	Stand	4Z717

2 Breakouts

3M Heat Shrink Breakout Boots

- Black Color

Boots are placed over the point where wire splits off from cable, then heated to shrink the boot and melt the adhesive lining. Also known as cable splitters or transition boots, they create a tight seal around the wire connection that provides mechanical and electrical protection, while the adhesive seals against environmental damage.

I.D. Before Shrinking	I.D. After Shrinking	Breakout I.D. Before Shrinking	Breakout I.D. After Shrinking	L	Item No.
Heat Shrink Breakout Boots					
Number of Breakouts: 2					
0.8 in	0.37 in	0.33 in	0.11 in	2.7 in	4NLD5
1.2 in	0.6 in	0.5 in	0.17 in	3.5 in	2JKR3
1.9 in	0.9 in	1.75 in	0.3 in	4.2 in	2JKW7
3 in	1.9 in	1.45 in	0.5 in	5 in	2JKY1
Number of Breakouts: 3					
0.9 in	0.36 in	0.33 in	0.12 in	2.7 in	2JKR7
1.2 in	0.5 in	0.5 in	0.16 in	3.3 in	2JKT2
1.5 in	0.69 in	0.65 in	0.18 in	4 in	2JKJ3
1.7 in	0.9 in	0.82 in	0.3 in	4.5 in	2JKZ8
2.4 in	1.4 in	1.25 in	0.5 in	5.1 in	2FZL8
3.2 in	2 in	1.4 in	0.75 in	5.1 in	2JKY5
4.9 in	2.32 in	2 in	1 in	10 in	2FZL2
Number of Breakouts: 4					
1.25 in	0.8 in	0.5 in	0.19 in	3.3 in	2JKX6
1.75 in	0.98 in	0.79 in	0.28 in	3.5 in	2JKZ4
2.35 in	1 in	1 in	0.35 in	8.5 in	2JKY9
2.65 in	1.4 in	1.2 in	0.53 in	5 in	2FZD7
5.25 in	3 in	1.35 in	0.55 in	9 in	2FZR5
Number of Breakouts: 5					
2.36 in	0.96 in	1.18 in	0.29 in	7.1 in	2JKU1
Number of Breakouts: 6					
2.39 in	1.45 in	0.8 in	0.35 in	5.4 in	2JKX2

5ZNK0

3M Raychem Cold Shrink Connector Insulators

Covers low-voltage cable, wire connections, joints, and terminals, and it shrinks when the core is removed to create tightly sealed bundles. It doesn't require heat guns, so it can be used where gas and electrical heating devices are not allowed. It is used across a wide variety of applications to provide electrical and mechanical protection against environmental damage.

I.D. Before Shrinking	I.D. After Shrinking	L	Max. Temp. Rating	Material	Color	Brand	Item No.
Standard Cold Shrink Tubing							
0.56 in	0.31 in	6 in	194 °F	EPDM Rubber	Black	3M	4YT82
0.82 in	0.1 in	8 in	194 °F	EPDM Rubber	Black	3M	4YT83
0.82 in	0.4 in	8 in	194 °F	EPDM Rubber	Black	3M	4YT84
1.18 in	0.55 in	9 in	194 °F	EPDM Rubber	Black	3M	4YT80
1.18 in	0.55 in	11 in	194 °F	EPDM Rubber	Black	3M	2DRC2
1.38 in	0.67 in	16 in	194 °F	EPDM Rubber	Black	3M	2DRJ8
1.38 in	0.67 in	6 in	194 °F	EPDM Rubber	Black	3M	2DRV2
1.38 in	0.69 in	12 in	194 °F	EPDM Rubber	Black	3M	4YT81
1.94 in	0.95 in	12 in	194 °F	EPDM Rubber	Black	3M	4YT51
1.94 in	0.95 in	6 in	194 °F	EPDM Rubber	Black	3M	2DPV1
1.94 in	0.95 in	6 in	194 °F	EPDM Rubber	Black	3M	2DRA8
1.94 in	0.95 in	18 in	194 °F	EPDM Rubber	Black	3M	2FYW7
2.67 in	1.27 in	9 in	194 °F	EPDM Rubber	Black	3M	2DRF8
2.67 in	1.27 in	6 in	194 °F	EPDM Rubber	Black	3M	2DRH8
2.67 in	1.27 in	18 in	194 °F	EPDM Rubber	Black	3M	2FYX2
3.69 in	1.68 in	9 in	500 °F	EPDM Rubber	Black	3M	5ZNJ3
3.69 in	1.68 in	18 in	194 °F	EPDM Rubber	Black	3M	5ZNJ4
Roll-On Cold Shrink Tubing							
—	—	8 in	266 °F	EPDM Rubber	Black	Raychem	33VE50
—	—	9.5 in	266 °F	EPDM Rubber	Black	Raychem	33VE51
High-Temperature Cold Shrink Tubing							
0.56 in	0.27 in	2 in	500 °F	EPDM Rubber	Gray	3M	5ZNJ5
0.56 in	0.27 in	6.5 in	500 °F	EPDM Rubber	Gray	3M	5ZNJ6
0.72 in	0.35 in	2.5 in	500 °F	EPDM Rubber	Gray	3M	5ZNJ7
0.72 in	0.35 in	7.5 in	500 °F	EPDM Rubber	Gray	3M	5ZNJ8
0.95 in	0.48 in	3.19 in	500 °F	Silicone	Gray	3M	5ZNJ9
0.95 in	0.48 in	8 in	500 °F	Silicone	Gray	3M	5ZNK0
Cold Shrink Tubing with Mastic							
0.65 in	0.2 in	2.75 in	194 °F	EPDM Rubber	Black	3M	5ZNK1
1.45 in	0.4 in	4.5 in	194 °F	EPDM Rubber	Black	3M	5ZNK2
2.25 in	0.71 in	6 in	194 °F	EPDM Rubber	Black	3M	5ZNK3
3-Core Cold Shrink Tubing							
0.75 in	0.2 in	2.5 in	266 °F	EPDM Rubber	Black	3M	4DYY1
1.6 in	0.4 in	5.25 in	266 °F	EPDM Rubber	Black	3M	4DYY2

29UK06

IDEAL Raychem Heat Shrink End Caps

Caps are placed over a cable end, then heated to shrink the cap and melt the adhesive lining. This creates a tight seal around the cable end that insulates it and protects against abrasion, moisture, and corrosion.

I.D. Before Shrinking	I.D. After Shrinking	Shrink Ratio	L	Temp. Range	Brand	Item No.
Heat Shrink End Caps						
Heavy Wall, Polyolefin, Black						
0.39 in	0.15 in	2.5:1	1 in	-67° to 275°F	Raychem	33VE69
0.79 in	0.3 in	2.5:1	2 in	-67° to 275°F	Raychem	33VE70
1.38 in	0.59 in	2.5:1	3.5 in	-67° to 275°F	Raychem	33VE71
2.17 in	0.98 in	2.5:1	5.31 in	-67° to 275°F	Raychem	33VE72
2.95 in	1.26 in	2.5:1	6.69 in	-67° to 275°F	Raychem	33VE73
3.94 in	1.77 in	2.5:1	5.56 in	-67° to 275°F	Raychem	33VE74
4.72 in	2.75 in	2.5:1	5.25 in	-67° to 275°F	Raychem	33VE75
Medium Wall, Cross-Linked Polyolefin with Adhesive, Black						
0.55 in	0.18 in	3:1	1.75 in	-55° to 110°F	IDEAL	29UK08
0.98 in	0.31 in	3:1	2.75 in	-55° to 110°F	IDEAL	29UK07
1.38 in	0.59 in	3:1	3.31 in	-55° to 110°F	IDEAL	29UK05
2.95 in	1.38 in	3:1	5.13 in	-55° to 110°F	IDEAL	29UK06

22C288

22C327

BURNDY

1- and 2-Hole Compression Lugs

- Rated for 600V to 35kV, 90°C applications

Lugs withstand a wide range of electrical and environmental conditions, including current surges, extreme temperatures, corrosion, and vibration. Designed to operate cooler than the wire on which they are insulated. Electro-tin plated for corrosion resistance. Aluminum terminals come prefilled with PENTROX™ oxide inhibitor compound.

Cable Size	Stud Size	W	Color Code	Die Code	Item No.
1-Hole Lug, Short Barrel, Copper					
8 AWG	#6	0.29 in	Red	49	**22P088**
8 AWG	#8 to #10	0.41 in	Red	49	**22C296**
8 AWG	¼ in	0.44 in	Red	49	**22C289**
8 AWG	⅜ in	0.59 in	Red	49	**22C301**
6 AWG	#6	0.3 in	Blue	7	**22P084**
6 AWG	#8 to #10	0.41 in	Blue	7, 374	**22C297**
6 AWG	¼ in	0.46 in	Blue	7, 374	**22C288**
6 AWG	5⁄16 in	0.52 in	Blue	7, 374	**22C306**
6 AWG	⅜ in	0.63 in	Blue	7, 374	**22C291**
4 AWG	¼ in	0.51 in	Gray	8	**22C292**
4 AWG	⅜ in	0.58 in	Gray	8	**22C293**
2 AWG	¼ in	0.5 in	Brown	10	**22P096**
2 AWG	¼ in	0.61 in	Brown	10	**22C294**
2 AWG	5⁄16 in	0.61 in	Brown	10	**22C298**
2 AWG	⅜ in	0.61 in	Brown	10	**22C290**
2 AWG	½ in	0.73 in	Brown	10	**22C299**
1 AWG	¼ in	0.5 in	Green	11	**22P095**
1/0	⅜ in	0.75 in	Pink	12	**22C304**
2/0	5⁄16 in	0.62 in	Black	13	**22P089**
2/0	⅜ in	0.83 in	Black	13	**22C295**
2/0	½ in	0.83 in	Black	13	**22C307**
3/0	⅜ in	0.91 in	Orange	14	**22C309**
3/0	½ in	0.91 in	Orange	14	**22C310**
4/0	⅜ in	0.76 in	Purple	15	**22P097**
4/0	⅜ in	1.02 in	Purple	15	**22C305**
4/0	½ in	1.02 in	Purple	15	**22C302**
250 kcmil	½ in	1.11 in	Yellow	16	**22C308**
350 kcmil	⅜ in	0.96 in	Red	18	**22P098**
350 kcmil	½ in	1.3 in	Red	18	**22C311**
500 kcmil	½ in	1.56 in	Brown	20, 299	**22C312**
1-Hole Lug, Short Barrel, Aluminum					
1/0	⅜ in	0.85 in	Tan	296	**22C414**
2/0	⅜ in	0.67 in	Olive	297	**22C416**
2/0	½ in	1.03 in	Olive	297	**22C403**
1-Hole Lug, Long Barrel, Copper					
8 AWG	¼ in	0.44 in	Red	49	**22C360**
8 AWG	⅜ in	0.59 in	Red	49	**22C364**
6 AWG	¼ in	0.41 in	Blue	7	**22C333**
4 AWG	¼ in	0.51 in	Gray	8	**22C342**
4 AWG	⅜ in	0.59 in	Gray	8	**22C369**
4 AWG	½ in	0.83 in	Gray	8	**22C348**
2 AWG	¼ in	0.61 in	Brown	10	**22C371**
2 AWG	5⁄16 in	0.61 in	Brown	10	**22C339**
2 AWG	⅜ in	0.59 in	White	9	**22C376**
2 AWG	½ in	0.81 in	Brown	10	**22C381**
2 AWG	½ in	0.83 in	Brown	10	**22C345**
1/0	⅜ in	0.75 in	Pink	12	**22C361**
2/0	⅜ in	0.83 in	Black	13	**22C341**
3/0	½ in	0.9 in	Orange	14	**22C350**
4/0	⅜ in	1.02 in	Purple	15	**22C367**
4/0	½ in	1.02 in	Purple	15	**22C335**
250 kcmil	½ in	1.1 in	Yellow	16	**22C346**
350 kcmil	½ in	1.29 in	Red	18	**22C352**
500 kcmil	½ in	1.56 in	Brown	20, 299	**22C382**
500 kcmil	½ in	1.56 in	Brown	20, 299	**22C354**
500 kcmil	⅝ in	1.56 in	Brown	20	**22C355**
1-Hole Lug, Long Barrel, Aluminum					
4 AWG	⅜ in	0.8 in	Green	375	**22C417**
2 AWG	⅜ in	0.88 in	Pink	348	**22C410**
4/0	⅜ in	1.17 in	White	298	**22C401**
4/0	½ in	1.17 in	White	298	**22C404**
250 kcmil	½ in	1.27 in	Red	324	**22C409**
350 kcmil	½ in	1.52 in	Brown	299	**22C408**
500 kcmil	⅝ in	1.8 in	Pink	300	**22C419**
750 kcmil	½ in	2.05 in	Yellow	936	**22C421**
1-Hole Lug, Belled Short Barrel, Copper					
6 AWG	¼ in	1.44 in	Blue	1,014	**22C393**
4 AWG	5⁄16 in	0.55 in	White	1,016	**22C383**
2 AWG	5⁄16 in	0.69 in	Green	1,018	**22C386**
1 AWG	5⁄16 in	0.75 in	Pink	1,019	**22C390**
2/0	⅜ in	0.81 in	Black	1,020	**22C389**
2/0	½ in	0.91 in	Orange	1,021	**22C387**
3/0	½ in	1.0 in	Purple	1,022	**22C394**
4/0	½ in	1.09 in	Yellow	1,023	**22C384**
250 kcmil	½ in	1.19 in	White	1,024	**22C395**
250 kcmil	½ in	1.29 in	Red	1,025	**22C388**
350 kcmil	⅝ in	1.52 in	Brown	1,027	**22C392**
450 kcmil	⅝ in	1.69 in	Green	1,028	**22C396**
1000 kcmil	⅝ in	2.18 in	White	1,032	**22C391**

Cable Size	Stud Size	W	Hole Center to Center	Color Code	Die Code	Item No.
2-Hole Lug, Short Barrel, Copper						
8 AWG	¼ in	0.44 in	0.625 in	Red	49	**22C316**
6 AWG	#10	0.42 in	0.625 in	Blue	7	**22C320**
6 AWG	¼ in	0.45 in	0.5 in	Blue	7	**22C322**
6 AWG	¼ in	0.45 in	0.625 in	Blue	7	**22C313**
6 AWG	¼ in	0.45 in	0.625 in	Blue	7, 374	**22C303**
6 AWG	¼ in	0.45 in	0.75 in	Blue	7	**22C314**
6 AWG	¼ in	0.45 in	1.0 in	Blue	7	**22C321**
6 AWG	⅜ in	0.58 in	1.0 in	Blue	7	**22C319**
4 AWG	#10	0.55 in	0.625 in	Gray	8	**22P093**
4 AWG	¼ in	0.51 in	0.625 in	Gray	8	**22C317**
4 AWG	¼ in	0.51 in	0.75 in	Gray	8	**22C326**
4 AWG	⅜ in	0.59 in	1.0 in	Gray	8	**22C324**
2 AWG	¼ in	0.48 in	0.625 in	Brown	10	**22P080**
2 AWG	¼ in	0.48 in	0.75 in	Brown	10	**22C422**
2 AWG	¼ in	0.61 in	0.625 in	Brown	10	**22C315**
2 AWG	¼ in	0.61 in	0.75 in	Brown	10	**22C323**
2 AWG	⅜ in	0.61 in	1.0 in	Brown	10	**22C318**
1/0	¼ in	0.75 in	0.625 in	Pink	12	**22C330**
1/0	⅜ in	0.75 in	1.0 in	Pink	12	**22C325**
2/0	¼ in	0.48 in	0.625 in	Black	13	**22P086**
2/0	⅜ in	3.2 in	1.0 in	Black	13	**22C329**
3 AWG	¼ in	0.55 in	0.625 in	White	9	**22C328**
4/0	⅜ in	0.94 in	1.0 in	Purple	15	**22P083**
4/0	⅜ in	1.02 in	1.0 in	Purple	15	**22C327**
374 kcmil	⅜ in	0.96 in	1.0 in	Blue	19	**22P081**
535 kcmil	⅜ in	1.63 in	1.0 in	Pink	L99	**22P082**
777 kcmil	⅜ in	1.63 in	1.0 in	Yellow	L115	**22C423**
777 kcmil	½ in	1.63 in	1.75 in	Yellow	L115	**22P090**
2-Hole Lug, Long Barrel, Copper						
8 AWG	¼ in	0.43 in	0.625 in	Red	49	**22C362**
8 AWG	⅜ in	0.59 in	1.0 in	Red	49	**22C374**
6 AWG	¼ in	0.46 in	0.625 in	Blue	7	**22C357**
6 AWG	¼ in	0.46 in	0.75 in	Blue	7	**22C368**
6 AWG	¼ in	0.46 in	1.0 in	Blue	7	**22C375**
6 AWG	⅜ in	0.59 in	1.0 in	Blue	7	**22C358**
4 AWG	¼ in	0.51 in	0.625 in	Gray	8	**22C370**
2 AWG	¼ in	0.61 in	0.625 in	Brown	10	**22C363**
2 AWG	⅜ in	0.61 in	1.0 in	Brown	10	**22C359**
2 AWG	½ in	0.83 in	1.75 in	Brown	10	**22C340**
1/0	⅜ in	0.75 in	1.0 in	Pink	12	**22C373**
1/0	½ in	0.83 in	1.75 in	Pink	12	**22C344**
2/0	⅜ in	0.82 in	1.0 in	Black	13	**22C372**
2/0	½ in	0.81 in	1.75 in	Black	13	**22C338**
3/0	⅜ in	0.9 in	1.0 in	Orange	14	**22C377**
3/0	½ in	0.91 in	1.75 in	Orange	14	**22C349**
3 AWG	⅜ in	0.58 in	1.0 in	White	9	**22C366**
4/0	⅜ in	0.94 in	1.0 in	Purple	15	**22P087**
4/0	⅜ in	1.01 in	1.0 in	Purple	15	**22C365**
4/0	½ in	1.0 in	1.75 in	Purple	15	**22C334**
250 kcmil	½ in	1.09 in	1.75 in	Yellow	16	**22C343**
300 kcmil	½ in	1.19 in	1.75 in	White	17	**22C353**
350 kcmil	⅜ in	1.29 in	1.0 in	Red	18	**22C380**
350 kcmil	½ in	1.28 in	1.75 in	Red	18	**22C337**
374 kcmil	⅜ in	0.96 in	1.0 in	Blue	19	**22P094**
400 kcmil	½ in	1.38 in	1.75 in	Blue	19	**22C351**
500 kcmil	⅜ in	1.56 in	1.0 in	Brown	20	**22C379**
500 kcmil	½ in	1.52 in	1.75 in	Brown	20	**22C332**
500 kcmil	½ in	1.63 in	1.75 in	Pink	L99	**22P091**
600 kcmil	⅜ in	1.74 in	1.0 in	Green	22	**22C378**
600 kcmil	½ in	1.69 in	1.75 in	Green	22	**22C336**
750 kcmil	½ in	1.63 in	1.75 in	Black	24	**22P101**
750 kcmil	½ in	1.89 in	1.75 in	Black	24	**22C347**
1000 kcmil	½ in	2.17 in	1.75 in	White	27	**22C356**
2-Hole Lug, Long Barrel, Aluminum						
1/0	½ in	1.03 in	1.75 in	Tan	296	**22C415**
2/0	½ in	1.03 in	1.75 in	Olive	297	**22C418**
3/0	½ in	1.04 in	1.75 in	Ruby	467	**22C411**
4/0	½ in	1.17 in	1.75 in	White	298	**22C406**
250 kcmil	½ in	1.27 in	1.75 in	Red	324	**22C407**
350 kcmil	½ in	1.52 in	1.75 in	Brown	299	**22C405**
400 kcmil	½ in	1.62 in	1.75 in	Green	472	**22C413**
500 kcmil	½ in	1.62 in	1.75 in	Pink	300	**22C398**
600 kcmil	½ in	1.62 in	1.75 in	Black	473	**22C402**
750 kcmil	½ in	1.62 in	1.75 in	Yellow	936	**22C399**
2-Hole Lug, Angled Barrel, Short Barrel, Copper						
6 AWG	¼ in	0.45 in	0.625 in	Blue	7	**22C331**

1-Hole Angle Barrel 6MFT2

1-Hole Aluminum 6MFT9

1-Hole Long Barrel 6MFT4

2-Hole Short Barrel 6MFR7

Thomas&Betts

1- and 2-Hole Lugs

- Tin-plated
- For 600V to 35KV, 90°C applications

Designed and approved for aluminum and copper conductors. Order installation tools and dies on page 382.

Cable Size	Stud Size	Color Code	Die Code	Item No.
1-Hole Lug, Angled Barrel, Short Barrel, Copper				
8 AWG	¼ in	Red	21	**6MFT2**
6 AWG	¼ in	Blue	24	**6MFR8**
6 AWG	¼ in	Blue	24	**6MFT5**
4 AWG	¼ in	Gray	29	**6MFT3**
250 kcmil	⅜ in	Yellow	62	**6MFV1**
1-Hole Lug, Long Barrel, Aluminum				
10 AWG	#10	Red	21	**6MFT9**
1-Hole Lug, Long Barrel, Copper				
6 AWG	#10	Blue	24	**6MFT1** *
1-Hole Lug, Short Barrel, Copper				
6 AWG	¼ in	Blue	24	**6MFT4** *
2 AWG	¼ in	Brown	33	**6MFV5**
1 AWG	¼ in	Green	37	**6MFV6**
1/0	¼ in	Pink	42	**6MFV7**
4/0	¼ in	Purple	54	**6MFV9**
4/0	5⁄16 in	Yellow	62	**6MFV2**
4/0	⅜ in	Yellow	62	**6MFV3**
10 AWG	¼ in	Yellow	—	**6MFT6**
1-Hole Lug, Standard Barrel, Copper				
3/0	¼ in	Orange	50	**6MFV8**
4/0	½ in	Yellow	62	**6MFV4**
2-Hole Lug, Angled Barrel, Long Barrel, Copper				
6 AWG	¼ in	Blue	24	**6MFT7**
2-Hole Lug, Long Barrel, Copper				
6 AWG	¼ in	Blue	24	**6MFT0** *
2 AWG	¼ in	Brown	33	**6MFV0** *
600 kcmil	½ in	Green	94	**6MFW0**
646 kcmil	½ in	Black	106	**6MFW2**
750 kcmil	½ in	Black	106	**6MFW1**
2-Hole Lug, Short Barrel, Copper				
14 to 10 AWG	¼ in	Yellow		**6MFT8**
6 AWG	#10	Blue	24	**6MFR7** *
6 AWG	¼ in	Blue	24	**6MFR9** *

*** Includes peep hole.***

29YK63

29YK67

Aluminum to Copper Compression Lugs

- 600V to 35kV
- 1-hole mounting
- Body material: aluminum

Cable Size	Color Code	Die Code	STUD SIZE 3⁄16 in Item No.	¼ in Item No.	5⁄16 in Item No.	⅜ in Item No.	½ in Item No.
8 AWG	Blue	24	**29YK77**	**29YK78**	**29YK63**	**29YK64**	—
6 AWG	Gray	29	**29YK65**	**29YK79**	**29YK66**	**29YK80**	—
4 AWG	Green	37	—	**29YK81**	**29YK82**	**29YK83**	—
2 AWG	Pink	42	—	**29YK84**	**29YK85**	**29YK86**	**29YK67**
1 AWG	Gold	45	—	**29YK68**	**29YK69**	**29YK87**	**29YK70**
1/0	Tan	50	—	**29YK71**	**29YK88**	**29YK89**	**29YK90**
2/0	Olive	54	—	**29YK72**	**29YK73**	**29YK91**	**29YK92**
3/0	Ruby	60	—	**29YK74**	**29YK75**	**29YK93**	**29YK94**
4/0	White	66	—	—	**29YK76**	**29YK95**	**29YK96**

24C341

24C378

1- and 2-Hole Compression Connectors

- Copper
- 600V to 35kV

Cable Size	Color Code	Die Code	#10 STUD SIZE Item No.	¼ in STUD SIZE Item No.	5⁄16 in STUD SIZE Item No.	⅜ in STUD SIZE Item No.	½ in STUD SIZE Item No.
1-Hole Lug, Short Barrel							
8 AWG	Red	21	**24C337**	**24C340**	**24C349**	**24C358**	—
6 AWG	Blue	24	**24C338**	**24C341**	**24C350**	**24C359**	—
4 AWG	Gray	29	**24C339**	**24C342**	**24C351**	**24C360**	—
2 AWG	Brown	33	—	**24C343**	**24C352**	**24C361**	**24C368**
1 AWG	Green	37	—	**24C344**	**24C353**	**24C362**	**24C369**
1/0	Pink	42	—	**24C345**	—	**24C363**	**24C370**
4 AWG to 250 MCM	Pink	42	—	—	**24C354**	—	—
2/0	Black	45	—	**24C346**	**24C355**	**24C364**	**24C371**
3/0	Orange	50	—	**24C347**	**24C356**	**24C365**	**24C372**
4/0	Purple	54	—	**24C348**	**24C357**	**24C366**	**24C373**
250 kcmil	Yellow	62	—	—	—	**24C367**	**24C374**
500 kcmil	Brown	87	—	—	—	—	**24C375**
1-Hole Lug, Long Barrel							
8 AWG	Red	21	**24C312**	**24C318**	—	—	—
6 AWG	Blue	24	**24C313**	**24C319**	—	—	—
4 AWG	Gray	29	**24C314**	**24C320**	—	—	—
2 AWG	Brown	33	**24C315**	—	**24C322**	—	—
1 AWG	Green	37	**24C316**	—	**24C323**	—	—
1/0	Pink	42	**24C317**	—	**24C324**	**24C325**	**24C328**
2/0	Black	45	—	—	—	**24C326**	**24C329**
3/0	Orange	50	—	—	—	—	**24C330**
4/0	Purple	54	—	**24C321**	—	**24C327**	**24C331**
250 kcmil	Yellow	62	—	—	—	—	**24C332**
300 kcmil	White	66	—	—	—	—	**24C333**
350 kcmil	Red	71	—	—	—	—	**24C334**
400 kcmil	Blue	76	—	—	—	—	**24C335**
500 kcmil	Brown	87	—	—	—	—	**24C336**
2-Hole Lug, Short Barrel							
8 AWG	Red	21	**24C416**	**24C418**	—	—	—
6 AWG	Blue	24	**24C417**	**24C419**	—	—	—
4 AWG	Gray	29	—	**24C420**	**24C426**	—	—
2 AWG	Brown	33	—	**24C421**	—	—	—
1 AWG	Green	37	—	**24C422**	**24C427**	—	—
1/0	Pink	42	—	**24C423**	**24C428**	—	—
2/0	Black	45	—	**24C424**	**24C429**	—	—
4/0	Purple	54	—	**24C425**	—	—	—
2-Hole Lug, Long Barrel							
8 AWG	Red	21	—	**24C376**	—	**24C388**	—
6 AWG	Blue	24	—	**24C377**	—	**24C389**	**24C403**
4 AWG	Gray	29	—	**24C378**	**24C385**	**24C390**	**24C404**
2 AWG	Brown	33	—	**24C379**	**24C386**	**24C391**	**24C405**
1 AWG	Green	37	—	**24C380**	**24C387**	**24C392**	**24C406**
1/0	Pink	42	—	**24C381**	—	**24C393**	**24C407**
2/0	Black	45	—	**24C382**	—	**24C394**	**24C408**
3/0	Orange	50	—	**24C383**	—	**24C395**	**24C409**
4/0	Purple	54	—	**24C384**	—	**24C396**	**24C410**
250 kcmil	Yellow	62	—	—	—	**24C397**	**24C411**
300 kcmil	White	66	—	—	—	**24C398**	**24C412**
350 kcmil	Red	71	—	—	—	**24C399**	**24C413**
400 kcmil	Blue	76	—	—	—	**24C401**	**24C414**
500 kcmil	Brown	87	—	—	—	**24C402**	**24C415**

IDEAL

Noalox® Antioxidant

Provides additional inner-strand and inner-conductor current paths for improved conductivity. Suspended zinc particles penetrate and cut aluminum oxide. Reduces galling and seizing on aluminum conduit joints, promoting good ground continuity.

Size	Item No.
8 oz	**6YH33**

22P103

22P120

BURNDY

Aluminum Compression Adapters

- Rated for 600V to 35kV, 90°C applications

Connectors come prefilled with PENTROX™ oxide inhibitor compound. EPDM or Santoprene rubber covers are packaged with each connector. Applications include mechanical connectors in molded case circuit breakers, panel board equipment, and meter sockets.

Max. Wire Size	Item No.
Offset Adapters	
2/0 AWG	**22P111**
3/0 AWG	**22P103**
4/0 AWG	**22P105**
250 kcmil	**22P109**
300 kcmil	**22P112**
350 kcmil	**22P110**
400 kcmil	**22P114**
500 kcmil	**22P108**
600 kcmil	**22P106**
750 kcmil	**22P104**
Compression Adapters	
6 AWG	**22P121**
4 AWG	**22P117**
2 AWG	**22P113**
1 AWG	**22P118**
1/0 AWG	**22P115**
250 kcmil	**22P120**
350 kcmil	**22P119**
500 kcmil	**22P107**
750 kcmil	**22P116**

30XT37

30XR74

Hylug™ Ring Tongue Compression Lugs

BURNDY

- Body material: tin-plated copper
- Mounting: stud
- Head style: ring tongue

Feature noninsulated brazed-barrel copper terminals.

Cable Size	Die Code	Mfr. Model	Pkg. Qty.	STUD SIZE #8 Item No.	#10 Item No.	¼ in Item No.	5⁄16 in Item No.	⅜ in Item No.	½ in Item No.	⅝ in Item No.	¾ in Item No.
8 AWG	1013	YAD8CM	10	**30XT40**	**30XT41**	**30XT42**	**30XT43**	**30XT37**	**30XT38**	**30XT39**	—
6 AWG	—	YAD6CM	10	—	**30XT34**	**30XT35**	**30XT36**	**30XT32**	**30XT33**	—	—
4 AWG	1017	YAD4CM	5	—	**30XT29**	**30XT30**	**30XT31**	**30XT25**	**30XT26**	**30XT27**	**30XT28**
2 AWG	1018	YAD2CM	5	—	—	**30XT07**	**30XT08**	**30XT03**	**30XT04**	**30XT05**	**30XT06**
1 AWG	1019	YAD1CM	1	—	—	**30XR77**	**30XR78**	**30XR73**	**30XR74**	**30XR75**	**30XR76**
1/0	1019	YAD25M	1	—	—	**30XR83**	**30XR84**	**30XR79**	**30XR80**	**30XR81**	**30XR82**
2/0	1022	YAD26M	1	—	—	**30XR89**	**30XR90**	**30XR85**	**30XR86**	**30XR87**	**30XR88**
3/0	1023	YAD27M	1	—	—	—	**30XR95**	**30XR91**	**30XR92**	**30XR93**	**30XR94**
4/0	1026	YAD28M	1	—	—	**30XT01**	**30XT02**	**30XR96**	**30XR97**	**30XR98**	**30XR99**
300 kcmil	—	YAD30M	1	—	—	—	—	**30XT09**	**30XT10**	**30XT11**	**30XT12**
350 kcmil	—	YAD31M	1	—	—	—	—	**30XT13**	**30XT14**	**30XT15**	**30XT16**
450 kcmil	—	YAD33M	1	—	—	—	—	**30XT17**	**30XT18**	**30XT19**	**30XT20**
600 kcmil	—	YAD36M	1	—	—	—	—	**30XT21**	**30XT22**	**30XT23**	**30XT24**

Battery-Operated Crimping Tools

BURNDY

- 18V Li-Ion battery

Feature high-speed hydraulic pump. Provide reliability in the harshest conditions. For use with tension sleeves, taps, aerial cables, terminals and splice, and compression connectors.

450W94

22P231

22P217

Max. Crimping Force	Crimping Die Series	Capacity Aluminum Lug	Capacity Copper Lug	Battery Capacity	Includes	Item No.
Scissor Head Style Crimper						
6 ton	W Style, W-VT Style, X Style	8 AWG to 350 kcmil	8 AWG to 500 kcmil	3.0 Ah	(1) Battery Charger - 12V, (1) Head - D3 + O Grooves	**450W94**
6 ton	W Style, W-VT Style, X Style	8 AWG to 350 kcmil	8 AWG to 500 kcmil	3.0 Ah	(1) Battery Charger - 18V, (1) Head - BG + D3 Grooves	**450W95**
6 ton	W Style, W-VT Style, X Style	8 AWG to 350 kcmil	8 AWG to 500 kcmil	5.0 Ah	(1) Battery Charger - 12V, (1) Head - BG + D3 Grooves	**450W96**
6 ton	W Style, W-VT Style, X Style	8 AWG to 350 kcmil	8 AWG to 500 kcmil	5.0 Ah	(1) Battery Charger - 12V, (1) Head - D3 + O Grooves	**450W97**
Latching Head Style Crimper						
6 ton	W Style, W-VT Style, X Style	8 AWG to 350 kcmil	8 AWG to 600 kcmil	2.6 Ah	(1) Battery Charger (PATCHGR-LI), (1) Tool Storage - Carrying Case, (2) Batteries (BAT18VLI)	**22P229**
6 ton	PAT81K2	8 AWG to 750 kcmil	8 AWG to 1000 kcmil/8 AWG to 777.7 kcmil	3 Ah	(1) 120V-AC Charger, (2) 3.0Ah 18V Li-ion Batteries, Guides, Hard Case	**783YV1**
6 ton	PAT81K2	8 AWG to 750 kcmil	8 AWG to 1000 kcmil/8 AWG to 777.7 kcmil	3 Ah	(1) 120V-AC Charger, (2) 3.0Ah 18V Li-ion Batteries, Guides, Pro Bag	**783YV2**
11 ton	Dies Not Required	6 AWG to 900 kcmil	6 AWG to 1000 kcmil	3.0 Ah	(1) Battery Charger (PATCHGR-LI), (1) Tool Storage - Carrying Case, (2) Batteries (BAT18VLI)	**22P231**
C-Head Style Crimper						
6 ton	Dies Not Required	8 AWG to 750 kcmil	8 AWG to 1000 kcmil	2.6 Ah	(1) Battery Charger (PATCHGR-LI), (1) Tool Storage - Carrying Case, (2) Batteries (BAT18VLI)	**22P228**
12 ton	U Style	8 AWG to 750 kcmil	8 AWG to 750 kcmil	3.0 Ah	(1) Battery Charger (PATCHGR-LI), (1) Tool Storage - Carrying Case, (2) Batteries (BAT18VLI)	**22P217**

Water-Resistant Splice Kits

TE connectivity

- Silicone filled
- Rated for underground use

6HKE1

6HKE2

Wire Range	Voltage Rating	Includes	Item No.	Pkg. Qty.
Motor Lead Splices				
16 to 10 AWG	1000V	—	**6HKE1**	1
8 to 2 AWG	1000V	—	**6HKE2**	3
2 to 4/0 AWG	1000V	—	**6HKE3**	3
250 to 500 kcmil	1000V	—	**6HKE4**	3

3LM37

POWER FIRST

2-Way Connectors

Thomas&Betts

- For 600V applications

Order installation tools and dies on page 382.

COPPER

Easy-to-insulate connectors provide low-resistance, high-quality connection, and high pullout values.

ALUMINUM

Permit aluminum-to-copper and aluminum-to-aluminum splices. Feature aluminum and copper concentric conductors and compact code aluminum strandings.

Wire Gauge	Color Code	Die Code	THOMAS & BETTS Short-Barrel Splice Item No.	THOMAS & BETTS Long-Barrel Splice Item No.	POWER FIRST Short-Barrel Splice Item No.	POWER FIRST Long-Barrel Splice Item No.
Tin-Plated Wrought Copper						
8 AWG	Red	21	**3LM13**	**3LM37**	**22EZ15**	**22EZ30**
6 AWG	Blue	24	**3LM14**	**3LM38**	**22EZ16**	**22EZ31**
4 AWG	Gray	29	**3LM15**	**3LM39**	**22EZ17**	**22EZ32**
2 AWG	Brown	33	**3LM16**	**3LM40**	**22EZ18**	**22EZ33**
1 AWG	Green	37	**3LM17**	**3LM41**	**22EZ19**	**22EZ34**
1/0 AWG	Pink	42	**3LM18**	**3LM42**	**22EZ20**	**22EZ35**
2/0 AWG	Black	45	**3LM19**	**3LM43**	**22EZ21**	**22EZ36**
3/0 AWG	Orange	50	**3LM20**	**3LM44**	**22EZ22**	**22EZ37**
4/0 AWG	Purple	54	**3LM21**	**3LM45**	**22EZ23**	**22EZ38**
250 kcmil	Yellow	62	**3LM22**	**3LM46**	**22EZ24**	**22EZ39**
300 kcmil	White	66	**3LM23**	**3LM47**	**22EZ25**	**22EZ40**
350 kcmil	Red	71	**3LM24**	**3LM48**	**22EZ26**	**22EZ41**
400 kcmil	Blue	76	**3LM25**	**3LM49**	**22EZ27**	**22EZ42**
500 kcmil	Brown	87	**3LM26**	**3LM50**	**22EZ28**	**22EZ43**
Tin-Plated Wrought Aluminum						
8 AWG	Blue	24	—	**3LN04**	—	—
6 AWG	Gray	29	—	**3LN05**	—	—
4 AWG	Green	37	—	**3LN06**	—	—
2 AWG	Pink	42	—	**3LN07**	—	—
1 AWG	Gold	45	—	**3LN08**	—	—
1/0 AWG	Tan	50	—	**3LN09**	—	—
2/0 AWG	Olive	54	—	**3LN10**	—	—
3/0 AWG	Ruby	60	—	**3LN11**	—	—
4/0 AWG	White	66	—	**3LN12**	—	—
250 kcmil	Red	71	—	**3LN13**	—	—

22P158

22P233

Manual Crimping Tools

BURNDY

Designed to install a full range of connectors, including taps, splices, and terminals.

Description	Cap.	Max. Crimping Force	Overall Length	Item No.
Crimper	14 to 4/0 AWG	9000 lb	25 ⅜ in	**22P123**
Crimper, Cu	16 to 1 AWG	9000 lb	9 ⅞ in	**22P158**
Crimper and Connector Kit, 1-Hole	16 to 4 AWG	9000 lb	9 ⅞ in	**22P159**
Crimper and Connector Kit, 2-Hole	16 to 4 AWG	9000 lb	9 ⅞ in	**22P160**
Crimper, Cu	8 to 4/0 AWG	Not Rated	26 in	**22P233**
Crimper, Al	8 to 4/0 AWG	Not Rated	26 in	**22P234**
Dieless Crimper	8 to 250 KCMIL	9000 lb	22 ⅝ in	**22P243**

Wire Range	Overall Length	Voltage Rating	Item No.
Motor Lead Splice Kits, Make 3 Splices			
16 to 12 AWG	2.1 in	1000V	**4NU47**
12 to 4 AWG	4.0 in	1000V	**4NU48**
10 to 4 AWG	4.0 in	1000V	**5ZNL2**
4 to 1/0 AWG	4.2 in	1000V	**4NU49**
2 AWG to 250 kcmil	5.3 in	1000V	**4NU50**
4/0 AWG to 500 kcmil	6.7 in	1000V	**4NU51**
10 to 4 AWG	8.0 in	5000V to 8000V	**5ZNN0**
4 to 1/0 AWG	9.0 in	5000V to 8000V	**5ZNN1**
4 to 1/0 AWG	9.5 in	5000V to 8000V	**5ZNL7**
2 AWG to 250 kcmil	10.0 in	5000V to 8000V	**5ZNN2**
10 to 4 AWG	11.0 in	5000V to 8000V	**5ZNN4**
2 AWG to 250 kcmil	11.0 in	5000V to 8000V	**5ZNL8**
4/0 AWG to 500 kcmil	11.5 in	5000V to 8000V	**5ZNN3**
10 to 4 AWG	11.8 in	5000V to 8000V	**5ZNN8**
4/0 AWG to 500 kcmil	12.0 in	1000V	**5ZNL5**
4/0 AWG to 500 kcmil	13.0 in	5000V to 8000V	**5ZNL9**
2 AWG to 250 kcmil	13.2 in	5000V to 8000V	**5ZNP0**
4/0 AWG to 500 kcmil	14.5 in	5000V to 8000V	**5ZNP1**
2 AWG to 250 kcmil	16.0 in	5000V to 8000V	**5ZNN6**
4/0 AWG to 500 kcmil	18.0 in	5000V to 8000V	**5ZNN7**
Power Cable Splice Kits, Make 1 Splice			
10 to 2 AWG	4.5 in	5000V	**4NU52**
4 to 2 AWG	4.5 in	5000V	**4NU55**
1/0 to 2/0 AWG	5.64 in	1000V	**4NU57**
2 to 3/0 AWG	11.875 in	5000V	**4NU53**
Scotchcast™ Multimold Splice Kits, Make 1 Splice			
8 to 4 AWG	5.0 in	1000V	**4DYX7**
1 to 2/0 AWG	7.0 in	1000V	**4NU56**
22 to 10 AWG	7.1 in	1000V	**5ZNK6**
6 to 1/0 AWG	8.0 in	1000V	**5ZNK4**
4/0 AWG to 250 kcmil	8.0 in	1000V	**4DYX9**
2/0 to 4/0 AWG	8.0 in	1000V	**4DYX8**
22 to 10 AWG	10.5 in	1000V	**5ZNK7**
2/0 to 4/0 AWG	12.0 in	1000V	**5ZNK5**
22 to 10 AWG	15.4 in	1000V	**5ZNK8**
22 to 10 AWG	15.6 in	1000V	**5ZNK9**
22 to 10 AWG	20.3 in	1000V	**5ZNL0**
22 to 10 AWG	25.0 in	1000V	**5ZNL1**

4NU47

4NU52

3M

Insulating Kits for Motor Connections and Mechanical Connectors

Kits insulate from moisture and provide physical protection for electrical connections.

22P209

Item	Max. Crimping Force	Mfr. Model	Item No.
Crimping Tools			
Latch Head Hydraulic Crimp Tool	12,000 lb	Y500CTHS	**22P210**
Dieless Hydraulic Crimper	12,000 lb	Y81KFT	**22P221**
Die-less 1-Crimp Tool	22,000 lb	Y644HSXT	**22P209**
Hypress C-Head, uses U-Die	24,000 lb	Y750HSXT	**22P161**
Hypress Covered Head	24,000 lb	Y750CHSXT	**22P162**
Remote Powered Crimping Head	12.0 tons	Y35BH	**22P163**
Crimping Tool Accessories			
Hydraulic Pump, 0.5 hp HP, 115V, 12.5 AA, 00.5 gal gal. Capacity		EPP10	**22P238**
Hydraulic Pump, 0.625 hp HP, 115V, 11 AA, 00.403 gal gal. Capacity		Y10AC9	**22P239**
Hydraulic Hose Assembly, 10,000 psi, 25 ft.		PT2990125	**22P208**

Hydraulic Crimping Tools

BURNDY

22P210—Features a specialized latch-style head with a generous working stroke for a wide variety of crimping applications. Provides 180° head rotation. Audible pressure valve indicates properly completed crimp. High-speed ram advance for faster crimps.

22P221—Features die-less flip-top head that facilitates tool removal from continuous conductor runs and eliminates the need to purchase and maintain dies. Designed with audible pressure valve. Die embossment provides 360° inspectability. Handle trigger release with convenient ram. Advanced high-speed pump provides fast crimps, longer life, efficiency, and reliability.

22P209, 22P161, 22P162—Dieless system requires only 1 crimp for each wire termination for both long and standard length barrels on HYLUG terminals and HYLINK splices. Rapid-advance pump for faster crimps. Pressure relief valve provides audible indication that crimp is complete. Handle trigger drain for convenient ram retraction. Comfort-grip handle.

22P163—Makes connector installation and tool removal from line conductors of overhead lines easy. Lifting eye allows head to be lifted into working position. Easy die changing. Secure die alignments are provided with heavy-duty reinforced back. Mates with all universal hot-stick tooling.

22P125

22P178

BURNDY

Crimping Tool Dies

Designed for making reliable and controllable electrical connections. These dies are part of a color-coded connection system where cable size is represented by a corresponding color on lugs, taps, and dies.

Color Code	Cable Range	Mfr. Model	Item No.
Type W Cutter Die (MD6, MD7, OUR840, Y500CTHS, PATMD6 Series)			
—	4 - 4/0 ACSR	W28K	**22P132**
Type W Die Holder			
—	—	WDIETREE	**22P124**
Upper and Lower Crimping Die (MD6, MD7, OUR840, Y500CTHS, PAT600, PATMD6 Series)			
Green	1 AWG	W1CVT	**22P154**
Brown	2 AWG	W2CVT	**22P148**
Gray	4 AWG	W4CVT	**22P153**
Blue	6 AWG	W5CVT	**22P151**
Red	8 AWG	W8CVT	**22P152**
Pink	1/0 AWG	W25VT	**22P146**
Black	2/0 AWG	W26VT	**22P150**
Orange	3/0 AWG	W27VT	**22P149**
Purple	4/0 AWG	W28VT	**22P147**
White	250 - 300 kcmil	W30RT	**22P157**
Red	350 kcmil	W31RT	**22P155**
Brown	500 kcmil	W34RT	**22P156**
—	6 AWG	W161	**22P131**
—	4 AWG	W162	**22P129**
—	1 AWG	W163	**22P130**
—	1 STR	W164	**22P138**
—	1/0 - 4/0 AWG	W165	**22P136**
—	3/0 AWG	W166	**22P135**
—	—	W167	**22P144**
—	2 AWG	W239	**22P142**
—	1/0 AWG	W241	**22P141**
—	2STR - 4/0 AWG	W243	**22P137**

Color Code	Cable Range	Mfr. Model	Item No.
—	2/0 AWG	W245	**22P139**
—	2/0 - 3/0 AWG	W247	**22P134**
—	2/0 - 4/0 AWG	W249	**22P128**
—	4/0 AWG	W660	**22P140**
—	4 - 2 ASCR	W687	**22P143**
—	1/0 ACSR - 1/0 AAC	W702	**22P133**
—	—	WBG	**22P125**
—	8 sol - 1/0 AWG	WC	**22P127**
—	2SOL - 4 AWG	WK840	**22P145**
—	—	WO	**22P126**
Upper and Lower Crimping Die (Y35,Y39,Y750,Y45,Y46, PAT750, PAT46)			
Green	1 AWG	U1CRT1	**22P203**
Brown	2 AWG	U2CRT	**22P188**
Gray	4 AWG	U4CRT	**22P198**
Blue	6 AWG	U5CRT	**22P197**
Red	8 AWG	U8CRT	**22P204**
Green	14-8 AWG	U11T1	**22P179**
Pink	1/0 AWG	U25RT	**22P187**
Black	2/0 AWG	U26RT	**22P186**
Orange	3/0 Kcmil	U27RT	**22P201**
White	4/0 AWG	U28ART	**22P194**
Purple	4/0 AWG	U28RT	**22P184**
Yellow	250 Kcmil	U29RT	**22P189**
White	300 Kcmil	U30RT	**22P195**
Brown	350 Kcmil	U31ART	**22P193**
Red	350 Kcmil	U31RT	**22P190**
Blue	400 Kcmil	U32RT	**22P199**

Color Code	Cable Range	Mfr. Model	Item No.
Pink	500 Kcmil	U34ART	**22P191**
Brown	500 Kcmil	U34RT	**22P185**
Green	600 kcmil	U36RT	**22P196**
Pink	535 Flex Kcmil	U38XRT	**22P202**
Black	750 Kcmil	U39RT	**22P192**
—	4 Sol	U162	**22P181**
—	2-3 Str	U163	**22P180**
—	300 Kcmil	U170	**22P182**
—	500 Kcmil	U210	**22P177**
—	700 kcmil	U316	**22P175**
—	700 kcmil	U321	**22P172**
Purple	1 AWG - 250 kcmil	U654	**22P170**
—	700 kcmil	U655	**22P174**
—	2/0 ACSR, 2/0 AAC	U659	**22P178**
Orange	1 AWG - 250 kcmil	U997	**22P166**
Brown	4/0 AWG - 500 Kcmil	U1104	**22P173**
Brown	2-6 AWG	UC	**22P168**
—	2/0 AWG - 300 kcmil	UD3	**22P171**
—	—	UK112T	**22P183**
—	—	UO	**22P167**
Upper and Lower Crimping Die (Y46)			
Yellow	750 Flex	PYFR	**22P206**
Upper and Lower Crimping Die Set (Y35,Y39,Y750,Y45,Y46, PAT750, PAT46)			
—	6 AWG - 750 Kcmil	UDIEKITAL	**22P176**
—	6 AWG - 750 Kcmil	UDIEKITCU	**22P169**
—	—	UDIEKITHYGRD	**22P205**

3LT12 and 3LT13

3LT16

Thomas&Betts

Compression Connector Tools

Shure-Shake® mechanism ensures a properly completed crimp each time. Color-coded die wheel rotates into position for proper die nest. Works with Color-Keyed® and Blackburn®, featuring the color-keyed system connectors.

3LT09

Description	Cap.	Mfr. Model	Item No.
Ratchet Crimpers			
Installs Copper and Aluminum Lugs	10 to 6 AWG Aluminum, 8 to 2 AWG Copper	TBM45S	**4XMR7**
Includes Dies 21 through 66	10 to 4/0 AWG Aluminum, 250 MCM to 8 AWG Copper	TBM5-S	**3LT12**
For Dies 21 through 76	10 AWG to 350 MCM Aluminum, 8 AWG to 500 MCM Copper	TBM6S	**3LT13**
Includes Dies 21 through 87	10 AWG to 350 KCMIL Aluminum, 8 AWG to 500 KCMIL Copper	TBM8S	**3LT16**
Hydraulic Crimping Tool			
14-Ton Manual Hydraulic Crimping Tool for Dies 21 through 94	Up to 750 MCM Aluminum, Up to 900 MCM Copper	TBM14M	**3LT09**
12-Ton Hydraulic Crimping Head, Dieless	—	TBM8-750	**3LT14**

C Taps

Thomas&Betts

- High-conductivity wrought copper
- For 600V applications

Heavy reinforcing ribs locate the compression dies and strengthen the compression joint. They assure positive, all-around compression with low resistance and high pullout values. Order installation tools and dies on this page. UL Listed.

Wire Range	L	H	Color Code	Die Code	Mfr. Model	Item No.
Branch 10 to 12 AWG, Main 10 to 8 AWG	9/16 in	7/16 in	Blue	24	54710	**3LM28**
Branch 8 to 12 AWG, Main 6 to 8 AWG	9/16 in	5/8 in	Gray	29	54715	**3LM29**
Branch 8 to 12 AWG, Main 8 to 4 AWG	1 5/32 in	11/16 in	Brown	33	54720	**3LM30**
Branch 6 to 12 AWG, Main 5 to 3 AWG	1 5/32 in	13/16 in	Green	37	54725	**3LM31**
Branch 4 to 12 AWG, Main 4 to 2 AWG	1 5/32 in	27/32 in	Pink	42	54730	**3LM32**
Branch 3 to 12 AWG, Main 3 to 1 AWG	1 11/16 in	7/8 in	Black	45	54735	**3LM33**
Branch 2 to 12 AWG, Main 2 AWG to 1/0	1 11/16 in	31/32 in	Orange	50	54740	**3LM34**
Branch 1 to 12 AWG, Main 2/0 to 1 AWG	1 11/16 in	1 1/16 in	Purple	54	54745	**3LM35**
Branch 2 to 1/0, Main 3/0 to 1/0	1 11/16 in	1 3/16 in	Yellow	62	54750	**3LM36**

3LM28

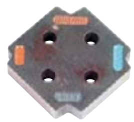
Thomas&Betts

Compression Connector Tool Dies

For use with Thomas & Betts compression connector tools. Dies create diamond-shaped compression for proper overall crimp.

Color Code	Mfr. Model	Item No.
Dies for No. 3LT16 (TBM8S) Tool		
Red 21, Blue 24, Gray 29, Brown 33	13461	**3LJ75**
Green 37, Pink 42, Black 45, Orange 50	13462	**3LJ76**
Purple 54, Yellow 62	13463	**3LJ77**
Dies for No. 3LT12 (TBM5-S) Tool		
Red 21, Blue 24, Gray 29, Brown 33	13454	**3LJ70**
Green 37, Pink 42, Black 45, Orange 50	13455	**3LJ71**
Purple 54, Yellow 62	13456	**3LJ72**
Gold 45, Tan 50, Olive 54, Ruby 60	13457	**3LJ73**
White 66	13458	**3LJ74**
Dies for No. 3LT13 (TBM6S) Tool, Upper Dies		
Red 21, Blue 24, Pink 42, Purple 54, Olive 54	13475	**3LJ86**
Gray 29, Red 71, Blue 76	13472	**3LJ83**
Brown 33, Green 37, Black 45, Orange 50, Gold 45, Tan 50	13474	**3LJ85**
Yellow 62, Ruby 60, White 66	13473	**3LJ84**
Dies for No. 3LT13 (TBM6S) Tool, Lower Dies		
Red 21, Blue 24, Brown 33, Green 37, Pink 42, Black 45, Orange 50, Purple 54, Gold 45, Tan 50, Olive 54	13477	**3LJ88**
Gray 29, Yellow 62, Ruby 60, White 66, Red 71, Blue 76	13476	**3LJ87**
Brown 87	13478	**3LJ89** *
Dies for No. 3LT09 (TBM14M)		
Red 21	15520SS	**3LK19**
Blue 24	15522SS	**3LK20**
Gray 29	15527SS	**3LK22**
Brown 33	15528SS	**3LK23**
Green 37	15513SS	**3LK16**
Pink 42	15508SS	**3LK12**
Black 45, Gold 45	15526SS	**3LK21**
Orange 50, Tan 50	15530SS	**3LK24**
Purple 54, Olive 54	15511SS	**3LK14**
Yellow 62	15510SS	**3LK13**
White 66	15534SS	**3LK26**
Red 71	15514SS	**3LK17**
Blue 76	15512SS	**3LK15**
Brown 87	15506SS	**3LK11**

** Includes upper and lower die.*



3LJ75

3LJ86

3LJ88

3LK19

Wire Terminal Kits

3M PANDUIT POWER FIRST

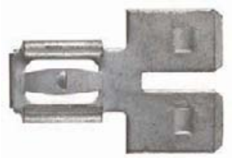
No. of Pieces	Terminal Type	Includes	Item No.
3M			
96	Nylon Insulated	(16) Closed End Connectors, (16) Instant Auto-Electric Connectors, (16) Self Stripping Electrical Tap Connectors, (24) Male and (24) Female Butted Seam Disconnects, and White Plastic Case, Crimping Tool	**2FZJ9**
134	Vinyl Insulated	4X294, 4X296, 4X298, 4X299, 4X304, 4X306, 4X308, 4X310, 4X312, 4X313, 4X315, 4X839 Connectors, and 4X316 Crimping Tool	**4X258**
850	Vinyl Insulated	(125) Butt Connectors, (200) Clear, (200) Fork Terminals, (275) Ring Terminals, (50) Female Disconnects, and a Rugged Metal Case, Crimping Tool, Tape Dispenser	**2FZL6**
Panduit			
147	Assortment	(10) BSV14X, (10) BSV18X, (10) DV18-250B and (10) DV14-188B Vinyl Disconnects, (10) PV10-8R, (18) PV14-10R, (18) PV18-6F and (18) PV14-8F Vinyl Fork Terminals, (18) PV18-8R, (5) JN418-212 Nylon Wire Joints, and (10) BSV10X Vinyl Butt Splices, and (10) PV10-10R Vinyl Ring Terminals, and Plastic Box, CT-160 Crimping Tool	**39CA62**
160	Assortment	(10) BSV14X, (10) BSV18X, (10) DNF14-250 and (10) DNF18-250 Nylon Disconnects, (10) JN418-212 Nylon Wire Joints, (10) PV10-8R, (20) PV14-10R, (20) PV18-6F and (20) PV14-8F Vinyl Fork Terminals, (20) PV18-8R, and (10) BSV10X Vinyl Butt Splices, and (10) PV10-10R Vinyl Ring Terminals, and Plastic Box	**39CA59**
1,177	Assortment	(100) Cable Ties Terminals, (100) DNF18-250, (100) MP150 Marker Tags, (100) PN14-10R Ring Terminals, (100) PN14-610R, (100) PN18-6LF, (100) PN18-8F Fork Terminals, (25) BSN10 Butt Splices Marking System, (50) BSN18, (50) DV10-250 Disconnects Splices, (50) PN10-10LF Locking Fork Terminals, (50) PN10-10R Ring Terminals Disconnects, BSN14 Butt Splices, DNF14-250 Disconnects, Installation Tool Cable Ties, PMD-0-9 Marking Dispenser and Tape, PN14-8LF Locking Fork Terminals, PN18-610R Multi-Stud Terminals, PX-0 Marker, Steel Kit Box	**436M07**
Power First			
145	Nylon Insulated	(16) 4FRK7, (16) 4FRK8, (16) 4FRK9, (16) 4FRH1, (16) 4FRK4, (24) 4FRK5, (16) 4FRK6, (24) 4FRJ3 Connectors and Crimping Tool	**5WHH3**
194	Vinyl Insulated	(12) 4FRH5, (12) 4FRH6, (12) 4FRH7, (8) 4FRH8, (12) 4FRH2, (12) 4FRH3, (12) 4FRH4, (12) 4FRJ2, (11) 4FRH9, (10) 4FRJ1, (8) 4FRH1, (8) 4FRJ3, (8) 4FRE5, (12) 4FRE2, (8) 4FRL1, (12) 4FRC8, (12) 5WHD6, (12) 4FRD3 Connectors and Crimping Tool	**5UGK5**
270	Nylon Insulated	(15) 24C707, (15) 24C708, (15) 24C711, (15) 24C726, (15) 24C727, (15) 24C728, (15) 24C736, (15) 24C744, (15) 24C747, (15) 24C758, (15) 24C762, (15) 24C765, (15) 24C776, (15) 24C782, (15) 24C787, (15) 24C852, (15) 24C853, (15) 24C854, and JD-1021 Crimping Tool	**24C971**
270	Vinyl Insulated	270 Terminals, JD-1021 Crimping Tool	**24C972**
270	Non-Insulated	270 Terminals, JD-1021 Crimping Tool	**24C973**
282	Non-Insulated	(18) 4FRG3, (18) 4FRG4, (36) 4FRG5, (34) 4FRG6, (18) 4FRF8, (18) 4FRF9, (18) 5UGK7, (18) 5UGK8, (17) 5UGK9, (18) 4FRG8, (12) 4FRF7, (12) 4FRG7, (12) 4FRG2, (12) 5UGN1, (8) 4FRG1, (12) 5WHE2 Connectors and Crimping Tool	**5UGK4**

4X258

39CA62

5UGK5

5UGN4



39AY37

POWER FIRST PANDUIT

Disconnect Terminal Adapters

Description	Brand	Item No.	Pkg. Qty.
¼" Female Disconnect to Right Angle Screw Terminal Adapter	Power First	**5UGN4**	100
3-Way ¼" Adapter, 1 Female to 2 Males	Panduit	**39AY37**	100

38YU61

4XMR5

POWER FIRST PANDUIT *Sta-Kon*

Crimping Tools

For additional crimping tools, see page 844.

Description	Mfr. Model	Item No.
Power First		
6-Pc. Kit, 1 Tool and 5 Dies, Includes Case	24C968	**24C968**
6-Way Tool, 22 to 10 AWG Capacity	24C969	**24C969**
Panduit		
For Use With UL Listed and CSA Certified Supra-Grip(TM) Disconnects	CT-1015	**1LEL4**
For Use With Panduit Nylon and Vinyl Insulated Terminals, Splices and Disconnects	CT-1550	**38YU61**
For Use With Panduit Insulated Terminals and Splices, Fully Insulated Disconnects, Insulated Parallel Splices and Crimps Panduit Barrel Insulated Disconnects	CT-1525	**38YU62**
For Use With Panduit Non-Insulated Terminals and Disconnects, Panduit Non-Insulated Splices and Compression Lugs	CT-1570	**38YU63**
For Use With Panduit Non-Insulated Tubular Terminals (S series), Copper Code Conductor Lugs and Splices, Copper Flex Conductor Lugs, Dual Rated Aluminum Lugs and Splices and CTAPF10-16 to CTAPF3-12 Copper Taps, Includes 5 - Position, Color Coded Rotating Die	CT-1700	**38YU64**
Sta-Kon		
For Use With A, B, C, Pt Non-Insulated Terminals and Splices, Includes Wire Cutter, Wire Stripper, Screw Cutter and Insulated Grips	WT111M	**3KH45**
For Use With A, B, C: AB, PT, RA,RB, RC Insulated and Non-Insulated Terminal and Splices, Includes Wire Cutter, Wire Stripper, Screw Cutter and Insulated Grips	WT2000	**3KH52**
For Use With Nylon and Vinyl, Type RA, RB, RC Insulated Terminals, Disconnects, and Splices, Includes Color-Coded Die Nests, Die Embossment, Terminal Locator	ERG4001	**4XMR5**

Fork Terminals

POWER FIRST PANDUIT 3M

Insulation Type	Stud Size	Seam	Brand	RED 22 to 16 AWG Item No.	RED Pkg. Qty.	BLUE 16 to 14 AWG Item No.	BLUE Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	YELLOW Pkg. Qty.
Standard									
Vinyl	#6	Butted	Power First	**5WHE4**	100	**5WHE7**	100	**5UGN9**	50
	#8	Butted	Power First	**5WHE5**	100	**5WHE8**	100	**5WHE9**	50
	#10	Butted	Power First	**5WHE6**	100	**4FRH4**	100	**4FRL1**	50
Nylon	#6	Grip Sleeved	Panduit	**39AZ79** †	1000	—	—	—	—
	#6	Grip Sleeved	Panduit	**39AZ78** †	100	**39AZ68** ‡	100	**39AZ54**	50
	#6	Brazed	3M	**3RWJ9** †	100	**3RWK1**	100	**3RWK2**	50
	#8	Grip Sleeved	Panduit	**39AZ82** †	100	**39AZ71** ‡	100	**39AZ57**	50
	#8	Grip Sleeved	Panduit	—	—	—	—	**39AZ56**	500
	#8	Brazed	3M	**3RWK3** †	100	**3RWK4**	100	**3RWK5**	50
	#10	Grip Sleeved	Panduit	**39AZ74** †	100	**39AZ60** ‡	100	**39AZ45**	50
	#10	Brazed	3M	**3RWK6** †	100	**3RWK7**	100	**3RWK8**	50
	¼ in	Grip Sleeved	Panduit	—	—	**39AZ63** ‡	100	**39AZ49**	50
Heat Shrink	#6	Brazed	Power First	**5UGJ7**	25	**5WHJ5**	25	—	—
	#8	Brazed	Power First	**5UGJ8**	25	**4FRF6**	25	**5WHJ2**	25
	#10	Brazed	Power First	**5UGJ9**	25	**5WHJ6**	25	**5WHJ3**	25
	¼ in	Brazed	Power First	—	—	**5UGJ6**	25	**5WHJ4**	25
Bare*	#6	Butted	Power First	**5WHD8**	100	**5WHE1**	100	**5UGP0**	50
	#6	Brazed	Panduit	**39AZ15**	1000	**39AZ06** ‡	100	—	—
	#8	Butted	Power First	**5WHD9**	100	**5WHE2**	100	**5WHE3**	50
	#8	Brazed	Panduit	—	—	**39AZ09** ‡	100	**39AY96**	50
	#8	Brazed	Panduit	—	—	**39AZ10** ‡	1000	—	—
	#8	Brazed	3M	—	—	**1DMC4**	100	**1DMC5**	50
	#10	Butted	Power First	**5WHE0**	100	**4FRF9**	100	**4FRG1**	50
	#10	Brazed	Panduit	—	—	**39AY99**	100	**39AY86**	50
	#10	Brazed	3M	—	—	**4X265**	100	**4X266**	50
Locking									
Vinyl	#6	Butted	Power First	**4FRD3**	100	**4FRD5**	100	**5UGN8**	50
	#8	Butted	Power First	**5WHD5**	100	**5WHD6**	100	**5WHD7**	50
	#10	Butted	Power First	**4FRD4**	100	**4FRD6**	100	**4FRD7**	50
	¼ in	Butted	Power First	—	—	—	—	**4FRD8**	50
Nylon	#6	Brazed	3M	**5HE46** †	100	**5HE48**	100	**3NLW5**	50
	#8	Brazed	3M	**3RWJ5** †	100	**3RWJ6**	100	**3RWJ7**	50
	#10	Brazed	3M	**5HE47** †	100	**5HE49**	100	**5HE50**	50
	¼ in	Brazed	3M	—	—	**3RWJ8**	100	**5HE51**	50
Bare*	#6	Butted	Power First	**5WHC6**	100	**5WHC9**	100	—	—
	#8	Butted	Power First	**5WHC7**	100	**5WHD0**	100	**5WHD2**	50
	#10	Butted	Power First	**5WHC8**	100	**5WHD1**	100	**5WHD3**	50
	¼ in	Butted	Power First	—	—	—	—	**5WHD4**	50
Flanged									
Vinyl	#6	Butted	Power First	**5UGL1**	100	—	—	**24C950**	50
	#10	Butted	Power First	**5UGL2**	100	**4FRJ4**	100	—	—
Block									
Vinyl	#6	Butted	Power First	**4FRH2**	100	**4FRH3**	100	—	—
	#8	Butted	Power First	**5WHF5**	100	**5WHF6**	100	**5WHF8**	50
	#10	Butted	Power First	**4FRD2**	100	**5WHF7**	100	**5WHF9**	50
Nylon	#6	Brazed	3M	**5HE52** †	100	**5HE54**	100	—	—
	#8	Brazed	3M	**3RWK9** †	100	**3RWL1**	100	**3RWL2**	50
	#10	Brazed	3M	**5HE53** †	100	**5HE55**	100	**5HE56**	50
Bare*	#6	Brazed	Power First	**4FRF7**	100	—	—	—	—
	#6	Brazed	3M	**4X260** †	100	**4X264**	100	**3NLV1**	50
	#8	Brazed	Power First	—	—	**5WHF1**	100	—	—
	#8	Brazed	3M	**1DMD3** †	100	**1DMD4**	100	**1DMD6**	50
	#10	Brazed	Power First	**5UGK6**	100	**5WHF2**	100	—	—
	#10	Brazed	3M	**4X262** †	100	**1DMD5**	100	**1DMD7**	50

Female Disconnect Partial Insulation 4FRE4

Male Disconnect Full Heat Shrink Insulation 5WHH5

Male Disconnect Noninsulated 5WHA8

Piggyback Disconnect Partial Insulation 31A493

Disconnect Terminals

Insulation Type	Tab Size	Insulation	Seam	Brand	RED 22 to 16 AWG Item No.	RED Pkg. Qty.	BLUE 16 to 14 AWG Item No.	BLUE Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	YELLOW Pkg. Qty.
Female Disconnect										
Vinyl	0.020 in x 0.187 in	Partial	Butted	Power First	5WHC3	100	4FRE3	100	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	4FRE4	100	4FRJ2	100	4FRE5	50
Nylon	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY55 †	100	39AY45	100	—	—
	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY60 †	1000	39AY53	1000	—	—
	0.032 in x 0.250 in	Partial	Brazed	3M	—	—	2DTV4	1000	2JMD3	500
	0.032 in x 0.250 in	Full	Butted	Power First	4FRK4	100	4FRK5	100	4FRK6	50
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY56 †	100	39AY47	20	39AY39	50
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY57 †	1000	39AY46	100	39AY38	500
	0.032 in x 0.250 in	Full	Sleeved Barrel	Panduit	—	—	39AY49	50	39AY41	50
	0.032 in x 0.250 in	Full	Brazed	3M	2DRX2	1000	2DRU4	1000	2JME2	500
	0.032 in x 0.250 in	Full	Brazed	3M	2JLE4	1	2JLD5	1	2JJW3 ‡	500
	0.032 in x 0.250 in	Full	Butted	3M	—	—	5X425	100	5X426	50
Heat Shrink	0.032 in x 0.250 in	Full	Butted	Power First	5UGK2	25	5UGK1	25	5UGK0	25
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5WHC4	100	5UGL0	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5WHC5	100	5UGK8	100	5UGN7	50
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY35	100	39AY34	50
	0.032 in x 0.250 in	None	Sleeved Barrel	Panduit	—	—	39AY36	1000	39AY33	500
Female Disconnect with Copper Sleeve										
Vinyl	0.020 in x 0.110 in	Partial	Butted	Power First	24C894	100	24C903	100	24C909	50
	0.020 in x 0.187 in	Partial	Butted	Power First	24C891	100	24C899	100	24C907	50
	0.020 in x 0.187 in	Full	Butted	Power First	24C880	100	24C885	50	—	—
	0.032 in x 0.110 in	Partial	Butted	Power First	24C893	100	24C902	100	24C908	50
	0.032 in x 0.187 in	Partial	Butted	Power First	24C889	100	24C897	100	24C906	50
	0.032 in x 0.187 in	Full	Butted	Power First	24C879	100	24C884	50	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	24C887	100	24C895	100	24C904	50
	0.032 in x 0.250 in	Full	Butted	Power First	24C878	100	24C883	50	24C886	50
Nylon	0.020 in x 0.110 in	Partial	Butted	Power First	24C722	100	24C730	100	24C858	50
	0.020 in x 0.187 in	Partial	Butted	Power First	24C786	100	24C784	100	24C856	50
	0.020 in x 0.187 in	Full	Butted	Power First	24C729	100	24C709	50	—	—
	0.032 in x 0.110 in	Partial	Butted	Power First	24C741	100	24C773	100	24C857	50
	0.032 in x 0.187 in	Partial	Butted	Power First	24C787	100	24C785	100	24C855	50
	0.032 in x 0.187 in	Full	Butted	Power First	24C783	100	24C761	50	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	24C738	100	24C770	100	24C712	50
	0.032 in x 0.250 in	Full	Butted	Power First	24C760	100	24C762	50	24C708	50
Female Flag Disconnect										
Nylon	0.032 in x 0.250 in	Full	Butted	Panduit	39AY65 †	1000	39AY63	1000	—	—
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY64 †	50	39AY62	50	—	—
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5UGN2 †	100	5UGN3	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5UGN1 †	100	5UGK9	100	—	—
Female Flag Disconnect with Copper Sleeve										
Nylon	0.032 in x 0.250 in	Full	Butted	Power First	24C707 †	50	24C723	50	24C752	50
Male Disconnect										
Vinyl	0.020 in x 0.187 in	Partial	Butted	Power First	5WHC1	100	5WHC2	100	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	5WHH1	100	4FRE2	100	5WHH2	50
Nylon	0.032 in x 0.250 in	Partial	Sleeved Barrel	Panduit	39AY61 †	100	39AY54	100	39AY44	50
	0.032 in x 0.250 in	Partial	Brazed	3M	—	—	2JLK3	1000	2JMD7	500
	0.032 in x 0.250 in	Full	Butted	Power First	4FRK7	100	4FRK8	100	4FRK9	50
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY59 †	1000	39AY52	1000	39AY42	500
	0.032 in x 0.250 in	Full	Butted	Panduit	39AY58 †	50	39AY51	50	39AY43	25
Heat Shrink	0.032 in x 0.250 in	Full	Butted	Power First	5WHH5	25	5WHH4	25	5UGK3	25
Bare*	0.020 in x 0.187 in	None	Butted	Power First	5WHA8	100	5WHC0	100	—	—
	0.032 in x 0.250 in	None	Butted	Power First	5WHA9	100	5UGK7	100	5UGN6	50
Male Disconnect with Copper Sleeve										
Vinyl	0.020 in x 0.187 in	Partial	Butted	Power First	24C892	100	24C901	100	—	—
	0.032 in x 0.187 in	Partial	Butted	Power First	24C890	100	24C898	100	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	24C888	100	24C896	100	24C905	50
Nylon	0.020 in x 0.187 in	Partial	Butted	Power First	24C790	100	24C792	100	—	—
	0.020 in x 0.187 in	Full	Butted	Power First	24C847	100	24C851	50	—	—
	0.032 in x 0.187 in	Partial	Butted	Power First	24C789	100	24C791	100	—	—
	0.032 in x 0.187 in	Full	Butted	Power First	24C846	100	24C850	50	—	—
	0.032 in x 0.250 in	Partial	Butted	Power First	24C852	100	24C853	100	24C854	50
	0.032 in x 0.250 in	Full	Butted	Power First	24C706	100	24C788	50	24C763	50
Piggyback Disconnect										
Vinyl	0.032 in x 0.250 in	Partial	Butted	Power First	31A495	50	31A496	50	31A497	50
	0.032 in x 0.250 in	Partial	Butted	Power First	31A492	50	31A493	50	31A494	50
Nylon	0.032 in x 0.250 in	Partial	Butted	Power First	31A505	50	31A506	50	31A507	50
	0.032 in x 0.250 in	Partial	Butted	Power First	31A502	50	31A503	50	31A504	50
Heat Shrink	0.032 in x 0.250 in	Partial	Butted	Power First	31A498	50	31A499	50	31A501	50
Bare*	0.032 in x 0.250 in	None	Butted	Power First	31A508	100	31A509	100	31A510	100

** Bare terminals are not color coded. † 22 to 18 AWG. ‡ Features interlocked barrel.*

PANDUIT® POWER 1 FIRST™ 3M

Ring Terminals

Stud Size	Seam	Brand	RED 22 to 16 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Vinyl Insulation								
#6	Butted	Power First	—	—	4FRH6	100	5UGP1	50
#8	Butted	Power First	5WHG3	100	5WHG4	100	5WHG5	50
#10	Butted	Power First	4FRH5	100	4FRH7	100	4FRH8	50
Nylon Insulation								
#6	Grip Sleeved	Panduit	39AZ80 #	100	39AZ69 ‡	100	39AZ55	50
#6	Grip Sleeved	Panduit	39AZ81 #	1000	39AZ70 ‡	1000	—	—
#6	Brazed	3M	5HE57	100	5HE59	100	1DMG5	50
#8	Grip Sleeved	Panduit	39AZ84 #	100	39AZ72 ‡	100	39AZ59	50
#8	Grip Sleeved	Panduit	39AZ85 #	1000	39AZ73 ‡	1000	39AZ58	500
#8	Brazed	3M	3RWL3	100	3RWL4	100	3RWL5	50
#10	Grip Sleeved	Panduit	39AZ75 #	100	39AZ61 ‡	100	39AZ47	50
#10	Grip Sleeved	Panduit	39AZ76 #	1000	39AZ62 ‡	1000	39AZ46	500
#10	Butted	3M	—	—	—	—	5HE61	50
#10	Brazed	3M	5HE58	100	5HE60	100	—	—
¼ in	Grip Sleeved	Panduit	39AZ77 #	100	39AZ64 ‡	100	39AZ51	50
¼ in	Grip Sleeved	Panduit	—	—	39AZ65 ‡	1000	39AZ50	500
¼ in	Brazed	3M	3RWL6	100	3RWL7	100	3RWL8	50
5⁄16 in	Grip Sleeved	Panduit	—	—	39AZ67 ‡	100	39AZ53	50
⅜ in	Grip Sleeved	Panduit	—	—	39AZ66 ‡	50	39AZ52	50
½ in	Grip Sleeved	Panduit	—	—	—	—	39AZ48	25
Heat Shrink Insulation								
#6	Brazed	Power First	5WHH9	25	5WHH6	25	—	—
#8	Butted	Power First	—	—	—	—	5UGN5	25
#8	Brazed	Power First	5WHJ0	25	4FRF3	25	—	—
#10	Brazed	Power First	5WHJ1	25	4FRF4	25	4FRE9	25
#10	Brazed	Panduit	—	—	—	—	39AZ42	20
¼ in	Brazed	Power First	—	—	4FRF5	25	4FRF1	25
5⁄16 in	Brazed	Power First	—	—	5WHH8	25	—	—
⅜ in	Brazed	Power First	—	—	5WHH7	25	4FRF2	25
Bare*								
#6	Butted	Power First	4FRG2	100	4FRG4	100	5UGP2	50
#6	Brazed	Panduit	39AZ16	100	39AZ07 ‡	100	39AY95 †	500
#6	Brazed	Panduit	39AZ17	1000	39AZ08 ‡	1000	—	—
#6	Brazed	3M	4X274	100	4X280	100	—	—
#8	Butted	Power First	5WHG0	100	5WHG1	100	5WHG2	50
#8	Brazed	Panduit	39AZ19	1000	39AZ12 ‡	1000	39AY97 †	500
#8	Brazed	Panduit	39AZ18	100	39AZ11 ‡	100	39AY98 †	50
#10	Butted	Power First	4FRG3	100	4FRG5	100	4FRG6	50
#10	Brazed	Panduit	39AZ14	1000	39AZ02 ‡	1000	39AY87 †	500
#10	Brazed	Panduit	39AZ13	100	39AZ01 ‡	100	39AY88 †	50
#10	Brazed	3M	—	—	—	—	4X286	50
¼ in	Brazed	Panduit	—	—	39AZ04 ‡	1000	39AY90 †	500
¼ in	Brazed	Panduit	—	—	39AZ03 ‡	100	39AY91 †	50
5⁄16 in	Brazed	Panduit	—	—	39AZ05 ‡	100	39AY94 †	50
⅜ in	Brazed	Panduit	—	—	—	—	39AY93 †	50
⅜ in	Brazed	Panduit	—	—	—	—	39AY92 †	500
½ in	Brazed	Panduit	—	—	—	—	39AY89 †	50

Insulation Type	Stud Size	Seam	Brand	RED 8 AWG Item No.	Pkg. Qty.	BLUE 6 AWG Item No.	Pkg. Qty.	YELLOW 4 AWG Item No.	Pkg. Qty.
Large Gauge Ring Terminals									
Vinyl	¼ in	Brazed	Power First	4FRC9	25	4FRD1	20	—	—
	⅜ in	Brazed	Power First	5WHA6	25	5WHG7	20	5WHA7	20
Nylon	¼ in	Brazed	3M	5ZNR1	10	5ZNR3	10	—	—
	⅜ in	Brazed	3M	5ZNR2	10	5ZNR8	10	5ZNR4	10
Bare*	#10	Brazed	Panduit	39AZ36	25	39AZ27	20	—	—
	#10	Brazed	Panduit	39AZ37	200	39AZ28	200	—	—
	¼ in	Brazed	Power First	4FRL2	25	4FRL3	20	—	—
	¼ in	Brazed	Panduit	39AZ38	25	39AZ30	20	39AZ21	20
	¼ in	Brazed	Panduit	39AZ39	200	39AZ31	200	39AZ22	200
	¼ in	Brazed	3M	5ZNT0	10	5ZNT1	10	—	—
	5⁄16 in	Brazed	Panduit	39AZ41	25	39AZ34	20	39AZ25	20
	5⁄16 in	Brazed	Panduit	—	—	39AZ35	200	39AZ26	200
	⅜ in	Brazed	Power First	4FRC7	25	5WHG6	20	4FRL4	20
	⅜ in	Brazed	Panduit	—	—	39AZ32	20	39AZ23	20
	⅜ in	Brazed	Panduit	39AZ40	25	39AZ33	200	39AZ24	200
	⅜ in	Brazed	3M	5ZNR0	10	5ZNR7	10	5ZNT2	10
	½ in	Brazed	Panduit	—	—	39AZ29	20	—	—

** Bare terminals are not color coded. † 22 to 18 AWG. ‡ 18 to 14 AWG. # 14 to 10 AWG.*

Vinyl Insulated
4FRH6

Nylon Insulated
5HE60

Noninsulated
5WHG0

Large Gauge
39AZ21

Sta-Kon® Thomas&Betts A Member of the ABB Group

High-Temperature, Bare Ring Terminals

Max. temp.: 1200°F. Crimp with tool 4LV85 sold separately.

Stud Size	20 to 18 AWG Item No.	Pkg. Qty.	16 to 14 AWG Item No.	Pkg. Qty.	12 to 10 AWG Item No.	Pkg. Qty.
#8	3VRW8	1000	3VRX1	100	3VRX2	50
#10	3KF93	100	3KF92	100	3KF91	50

3KF93

Scan. Order. Done.
Details on page A1.

Nylon Insulated 5HE62

Noninsulated 4FRG7

Vinyl Insulated 4FRL5

Vinyl Insulated Step Down 5UGV0

Butt Splice Connectors

Power First · Sta-Kon · Panduit · 3M

Insulation Type	Seam	Brand	RED 22 to 16 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Butt Splice Connectors								
Vinyl	Butted	Power First	**4FRH9**	100	**4FRJ1**	100	**4FRL5**	50
Nylon	Overlapped	Sta-Kon	**3KF22** †	100	**3KF23**	100	**3KF24**	50
Nylon	Brazed	Panduit	**39AY25** †	100	**39AY23**	100	**39AY22**	50
Nylon	Brazed	Panduit	**39AY26** †	1000	**39AY24**	1000	**39AY21**	500
Nylon	Brazed	3M	**5HE62** †	100	**5HE63**	100	**5HE64**	50
Heat Shrink	Butted	Power First	**4FRE8**	25	**4FRE7**	25	**4FRE6**	25
Heat Shrink	Seamless	Panduit	**39AY20** †	25	**39AY19**	25	**39AY18**	20
Bare*	Butted	Power First	**4FRG7**	100	**4FRG8**	100	**4FRG9**	50
Bare*	Brazed	Panduit	**39AY17** †	100	**39AY15**	100	**39AY14**	50
Bare*	Brazed	Panduit	—	—	**39AY16**	1000	**39AY13**	500
Insulation Type	**Seam**	**Brand**	**8 AWG Item No.**	**Pkg. Qty.**	**6 AWG Item No.**	**Pkg. Qty.**	**4 AWG Item No.**	**Pkg. Qty.**
Large Gauge Butt Splice Connectors								
Vinyl	Butted	Power First	**5WHG8**	25	**4FRD9**	20	**4FRE1**	20
Insulation Type	**Seam**	**Brand**	**16 to 14 AWG and 22 to 16 AWG Item No.**	**Pkg. Qty.**	**12 to 10 AWG and 16 to 14 AWG Item No.**	**Pkg. Qty.**	**12 to 10 AWG and 8 AWG Item No.**	**Pkg. Qty.**
Step Down Butt Splice Connectors								
Heat Shrink	Butted	Power First	**5UGV1**	50	**5UGV2**	50	**5UGV3**	25
Vinyl	Butted	Power First	**5UGU8**	100	**5UGU9**	100	**5UGV0**	50

** Bare terminals are not color coded. † 22 to 18 AWG.*

5UGP3

3RWN1

Pin Terminals

Power First · 3M · Panduit

Insulation Type	Seam	Brand	RED 22 to 18 AWG Item No.	Pkg. Qty.	BLUE 16 to 14 AWG Item No.	Pkg. Qty.	YELLOW 12 to 10 AWG Item No.	Pkg. Qty.
Vinyl	Brazed	Power First	**5UGP3**	100	—	—	—	—
Vinyl	Butted	Power First	—	—	**5UGP4**	100	**5UGP5**	50
Nylon	Brazed	3M	**3RWL9**	100	**3RWN1**	100	**3RWN2**	50
Bare*	Butted	Power First	**5UGP6**	100	**5UGP7**	100	**5UGP8**	50
Bare*	Brazed	Panduit	**39AZ20**	100	—	—	—	—

** Bare terminals are not color coded.*

Type FTD

Pan-Term® Ferrules

Panduit

Designed with seamless barrel to contain loose wire strands for superior terminations. These ferrules ease insertion of wire into terminal block, and are suitable for limited-space panel applications. Type FSD and FTD ferrules feature polypropylene insulation housing and funnel entry for faster insertion and lower installed cost. Meet DIN standards for wire containment. UL Listed.

Wire Range	Insertion Length	Insulation Color	Mfr. Model	Item No.	Pkg. Qty.
Type F, Bare, Max. Temp. 302°F					
16 AWG	13/32 in	Bare	F78-10-M	**39AX42**	1000
14 AWG	13/32 in	Bare	F80-10-M	**39AX43**	1000
14 AWG	15/32 in	Bare	F80-12-M	**39AX44**	1000
10 AWG	15/32 in	Bare	F82-12-M	**39AX45**	1000
10 AWG	19/32 in	Bare	F82-15-M	**39AX46**	1000
8 AWG	15/32 in	Bare	F83-12-D	**39AX47**	500
8 AWG	19/32 in	Bare	F83-15-D	**39AX48**	500
6 AWG	15/32 in	Bare	F84-12-TL	**39AX49**	250
6 AWG	19/32 in	Bare	F84-15-TL	**39AX50**	250
4 AWG	23/32 in	Bare	F85-18-C	**39AX51**	100
1 AWG	31/32 in	Bare	F87-25-C	**39AX52**	100
Type FSD, Polypropylene Insulation, Max. Temp. 221°F					
26 AWG	15/32 in	Gray	FSD72-8-D	**39AX53**	500
24 AWG	3/8 in	Yellow	FSD73-6-D	**39AX54**	500
24 AWG	15/32 in	Yellow	FSD73-8-D	**39AX55**	500
22 AWG	3/8 in	Turquoise	FSD74-6-D	**39AX56**	500
22 AWG	15/32 in	Turquoise	FSD74-8-D	**39AX57**	500
20 AWG	17/32 in	White	FSD75-10-D	**39AX58**	500
20 AWG	3/8 in	White	FSD75-6-D	**39AX59**	500
22 to 20 AWG	15/32 in	White	FSD75-8-D	**39AX60**	500
20 AWG	13/32 in	White	FSD75-8-DSL10	**39AX61**	500
18 AWG	17/32 in	Gray	FSD76-10-D	**39AX62**	500
18 AWG	15/32 in	Gray	FSD76-8-D	**39AX63**	500
18 AWG	17/32 in	Red	FSD77-10-D	**39AX64**	500
18 AWG	5/8 in	Red	FSD77-12-D	**39AX65**	500
18 AWG	3/8 in	Red	FSD77-6-D	**39AX66**	500
18 AWG	15/32 in	Red	FSD77-8-D	**39AX67**	500
18 AWG	13/32 in	Red	FSD77-8-DSL2	**39AX68**	500
16 AWG	17/32 in	Black	FSD78-10-D	**39AX69**	500
16 AWG	5/8 in	Black	FSD78-12-D	**39AX70**	500
16 AWG	7/8 in	Black	FSD78-18-D	**39AX71**	500
16 AWG	3/8 in	Black	FSD78-6-D	**39AX72**	500
16 AWG	5/16 in	Black	FSD78-8-D	**39AX73**	500
16 AWG	13/32 in	Black	FSD78-8-DSL0	**39AX74**	500
14 AWG	15/32 in	Yellow	FSD79-8-D	**39AX75**	500
14 AWG	5/8 in	Blue	FSD80-12-D	**39AX76**	500
14 AWG	7/8 in	Blue	FSD80-18-D	**39AX77**	500
14 AWG	15/32 in	Blue	FSD80-8-D	**39AX78**	500
14 AWG	13/32 in	Blue	FSD80-8-DSL6	**39AX79**	500
12 AWG	17/32 in	Gray	FSD81-10-D	**39AX80**	500
12 AWG	5/8 in	Gray	FSD81-12-C	**39AX81**	100
12 AWG	7/8 in	Gray	FSD81-18-C	**39AX82**	100
10 AWG	5/8 in	Yellow	FSD82-12-C	**39AX83**	100
10 AWG	7/8 in	Yellow	FSD82-18-C	**39AX84**	100
8 AWG	5/8 in	Red	FSD83-12-C	**39AX85**	100
8 AWG	7/8 in	Red	FSD83-18-C	**39AX86**	100
6 AWG	5/8 in	Blue	FSD84-12-C	**39AX87**	100
6 AWG	7/8 in	Blue	FSD84-18-C	**39AX88**	100
2 AWG	3/4 in	Red	FSD86-16-L	**39AX89**	50
Type FTD, Twin Wire, Polypropylene Insulation, Max. Temp. 221°F					
20 AWG	7/16 in	White	FTD75-8-D	**39AX90**	500
18 AWG	9/16 in	Gray	FTD76-10-D	**39AX91**	500
18 AWG	7/16 in	Gray	FTD76-8-D	**39AX92**	500
18 AWG	9/16 in	Red	FTD77-10-D	**39AX93**	500
18 AWG	7/16 in	Red	FTD77-8-D	**39AX94**	500
16 AWG	21/32 in	Black	FTD78-12-D	**39AX95**	500
16 AWG	7/16 in	Black	FTD78-8-D	**39AX96**	500
14 AWG	9/16 in	Blue	FTD80-10-TL	**39AX97**	250
14 AWG	23/32 in	Blue	FTD80-13-TL	**39AX98**	250

4X839

39AY84

Power First · 3M · IDEAL · Panduit

Closed End Connectors

Preinsulated nylon connectors with beveled openings allows wire to ease into entry and fit into tight locations. Flared skirt helps protect against turned back strands.

Min. Wire Combination	Max. Wire Combination	Brand	Mfr. Model	Item No.	Pkg. Qty.
300 V Max. Voltage					
(2) 14 AWG	(1) 18 AWG with (3) 20 AWG (1) 22 AWG	Power First	4FRJ3	**4FRJ3**	50
(2) 22 AWG	(1)18 AWG with (3) 22 AWG	Power First	4FRH1	**4FRH1**	100
600 V Max. Voltage					
(1) 22 AWG with (1) 12 AWG	(3) 16 AWG	3M	S-31-A	**4X839**	50
(1) 22 AWG with (1) 18 AWG	(1) 16 AWG with (1) 12 AWG	IDEAL	30-247G	**6LU60**	100
(2) 12 AWG	(4) 18 AWG	Panduit	JN418-212-C	**39AY84**	100
(2) 12 AWG	(4) 18 AWG	Panduit	JN418-212-D	**39AY85**	500
(2) 22 AWG	(3) 20 AWG	3M	S-11-A(BOXED)	**4X294**	100
(4) 16 AWG	(1) 12 AWG with (4) 14 AWG	IDEAL	30-248G	**6LU61**	100
(4) 16 AWG	(1) 12 AWG with (4) 14 AWG	IDEAL	30-148	**6YH46**	1000

IDEAL

Set Screw Connectors

Set-Screw Wire Connectors

Solid brass sleeves helps eliminate twisting and restripping. Flame-retardant shell withstands temperatures up to 305°F. For applications where vibration may be a problem.

Max. Wire Combination	Max. Voltage	STANDARD PACKAGING Mfr. Model	Item No.	Pkg. Qty.	BULK PACKAGING Mfr. Model	Item No.	Pkg. Qty.
Min. 1 #20 & 1 #22 - Max. 2 #14 & 1 #16	300	30-1222G	**6LU65**	10	30-210	**6VG13**	100
Min. 1 #14 & 1 #20 - Max. 3 #14 & 2 #18	600	30-1293G	**6LU63**	10	30-211	**6VG14**	100
Min. 1 #16 & 3 #18 - Max. 2 #10 & 1 #12	600	30-1294G	**6LU64**	10	30-222	**6YH50**	100
Set Screw Holderr for 600V Connectors		K-2422	**6YJ05**	1	—	—	—

IDEAL

3M

1DLY8

1DLZ1

45TM92

10K059

Wide Range Wing Style Wire Connectors

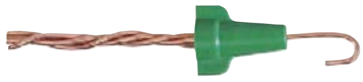
- 600 VAC

Easy-to-twist connectors provide secure hold. They offer exceptional wide wire-range and capacity. Designed for solid or stranded copper wire. UL Listed and CSA Certified.

Color	Min. Wire Combination	Max. Wire Combination	Item No.	Pkg. Qty.
3M				
Blue/Orange	(2) 22 AWG	(3) 12 AWG	**1DLY8**	100
	(2) 22 AWG	(3) 12 AWG	**1DLZ4**	500
Tan/Yellow	(1) 2 AWG	(1) 3 AWG	**1DLY7**	100
	(2) 22 AWG	(3) 12 AWG	**1DLZ3**	500
Red/Yellow	(5) 12 AWG	(2) 18 AWG to (2) 8 AWG	**1DLY9**	100
	(5) 12 AWG	(2) 18 AWG to (2) 8 AWG	**1DLZ5**	500
Tan/Red	(2) 18 AWG	(5) 12 AWG	**1DLY6**	100
	(2) 18 AWG	(5) 12 AWG	**1DLZ2**	750
Blue/Gray	(4) 14 AWG	(2) 6 AWG to (3) 8 AWG	**1DLZ1**	50
	(4) 14 AWG	(2) 6 AWG to (3) 8 AWG	**1DLZ6**	250
IDEAL				
Blue, Orange	(2) 22 AWG	(4) 12 AWG Solid	**783RK7**	100
	(2) 22 AWG	(4) 12 AWG Solid	**783RK8**	500
Orange	(2) 22 AWG	(3) 12 AWG	**45TM92**	100
Red/Yellow	(2) 18 AWG	(4) 10 AWG	**10K059**	250

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Series	Item No.	Pkg. Qty.
Standard Wire Connector Style						
Buchanan						
Blue	(2) 18 AWG	(3) 16 AWG	300V AC	WT2	**6VG23**	100
	(2) 18 AWG	(3) 16 AWG	300V AC	WT2	**5VYL6**	500
Gray	(2) 22 AWG Stranded	(2) 16 AWG	300V AC	WT1	**6VG22**	100
	(2) 22 AWG Stranded	(2) 16 AWG	300V AC	WT1	**5VYL5**	500
Orange	(2) 18 AWG	(2) 14 AWG	600V AC	WT3	**6VG24**	100
	(2) 18 AWG	(2) 14 AWG	600V AC	WT3	**5VYL7**	500
Red	(2) 14 AWG	(4) 12 AWG	600V AC	WT6	**6VG30**	100
	(2) 14 AWG	(4) 12 AWG	600V AC	WT6	**5VYL9**	250
Yellow	(3) 18 AWG	(4) 14 AWG with (1) 18 AWG	600V AC	WT4	**6VG25**	100
	(3) 18 AWG	(4) 14 AWG with (1) 18 AWG	600V AC	WT4	**5VYL8**	500
IDEAL						
Blue	(2) 22 AWG	(3) 16 AWG	300V AC	72B	**6YH35**	100
Gray	(2) 22 AWG Stranded	(2) 16 AWG	300V AC	71B	**6YH34**	100
Orange	(1) 18 AWG with (1) 20 AWG	(2) 14 AWG	600V AC	73B	**6YH36**	100
	(1) 18 AWG with (1) 20 AWG	(2) 14 AWG	600V AC	73B	**6LU42**	300
Red	(2) 14 AWG	(2) 10 AWG with (2) 12 AWG	600V AC	76B	**6YH38**	100
	(2) 14 AWG	(2) 10 AWG with (2) 12 AWG	600V AC	76B	**6LU44**	150
Yellow	(2) 18 AWG	(4) 14 AWG with (1) 18 AWG	600V AC	74B	**6YH37**	100
	(2) 18 AWG	(4) 14 AWG with (1) 18 AWG	600V AC	74B	**6LU43**	175
Power First						
Blue	(2) 22 AWG	(3) 16 AWG	300V AC	P2	**5UYJ3**	100
Gray	(2) 22 AWG	(1) 16 AWG with (1) 18AWG with (1) 20 AWG	300V AC	P1	**5UYJ2**	100
Orange	(1) 18 AWG with (1) 20 AWG	(4) 16 AWG with (1) 20 AWG	600V AC	P3	**5UYJ4**	100
	(1) 18 AWG with (1) 20 AWG	(4) 16 AWG with (1) 20 AWG	600V AC	P3	**5UYH7**	300
Red	(3) 18 AWG	(2) 10 AWG Solid with (2) 12 AWG Stranded	600V AC	P6	**5UYJ6**	100
	(3) 18 AWG	(2) 10 AWG Solid with (2) 12 AWG Stranded	600V AC	P6	**5UYH9**	150
Yellow	(3) 20 AWG Solid	(2) 12 AWG with (2) 14 AWG	600V AC	P4	**5UYJ5**	100
	(3) 20 AWG Solid	(2) 12 AWG with (2) 14 AWG	600V AC	P4	**5UYH8**	175
Wing Wire Connector Style						
Buchanan						
Red	(2) 18 AWG	(5) 12 AWG	600V AC	B2	**6VG19**	100
	(2) 18 AWG	(5) 12 AWG	600V AC	B2	**5VYL4**	350
Tan	(2) 20 AWG	(3) 10 AWG Solid	600V AC	WT41	**5VYN0**	100
	(2) 20 AWG	(3) 10 AWG Solid	600V AC	WT41	**5VYN1**	500

BUCHANAN CONSTRUCTION PRODUCTS IDEAL



Wing-Nut® Grounding

Grounding Wire Connectors

Easily holds in fingertips to form a secure grip when connecting wires for grounding or bonding. No pretwisting required. Fixed, square-wire spring threads itself creating secure connections. Contoured wing offers maximum torque. Deep skirt helps protect against flash-over. UL Listed and CSA Certified. 6HY42 meets UL 94V-2.

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Brand	Series	Item No.	Pkg. Qty.
Green	(2) 14 AWG	(5) 12 AWG	600V AC	Buchanan	WGR	**6VG21**	50
Green	(2) 14 AWG	(4) 12 AWG	600V AC	IDEAL	92	**6YH42**	100

Grounding Pigtail
4FA29

Pigtail Connector
10K069

IDEAL

Grounding Tails and Pigtails

Solid and stranded pigtail lead wires are convenient for device grounding applications.

Description	Color	Item No.	Pkg. Qty.
Grounding Pigtail			
8" 12 AWG Solid w/Loop and Ground Screw to Stripped End	Green	**4FA29**	50
8" 12 AWG Solid w/Loop and Ground Screw to Stripped End	Green	**10K060**	100
8 in 12 AWG Stranded w/#10 Ring and Ground Screw to #10 Fork	Green	**10K061**	25
8 in 12 AWG Stranded w/#10 Ring and Ground Screw to #10 Fork	Green	**10K062**	50
12 AWG 2-Wire Stranded w/#10 Ring and Ground Screw to Stripped End and #10 Fork	Green	**10K064**	25
12 AWG 2-Wire Stranded w/#10 Ring and Ground Screw to (2) #10 Fork	Green	**10K065**	25
12 AWG 3-Wire Stranded w/#10 Ring and Ground Screw to Stripped End and (2) #10 Fork	Green	**10K066**	25
Grounding Screw			
Ground Screw, Thread Forming, Combination Hex Head	Green	**10K067**	100
Pigtail Connector			
8" 12 AWG Stranded w/#10 Fork to Stripped End	Black	**10K069**	25
8" 12 AWG Stranded w/#10 Fork to Stripped End	White	**10K070**	25
8" 12 AWG Stranded w/#10 Fork to Stripped End	Green	**10K071**	25

IDEAL POWER FIRST BUCHANAN CONSTRUCTION PRODUCTS

Basic Style IDEAL

Wing Style Power First

General Application Wire Connectors

Twist-on connectors provide fast installation, no pre-twisting required. Fixed, wire spring creates its own threads as it draws the conductors all the way into the connector preventing any disconnection. Shells are designed to withstand temperatures up to 221° F. UL Listed and CSA Certified.

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Series	Item No.	Pkg. Qty.
Yellow	(2) 18 AWG	(3) 12 AWG	600V AC	B1	**6VG18**	100
	(2) 18 AWG	(3) 12 AWG	600V AC	B1	**5VYL3**	250
Red	(2) 18 AWG	(2) 8 AWG	600V AC	BT2	**10K056**	100
	(2) 12 AWG	(5) 12 AWG	600V AC	WT52	**6VG27**	100
	(2) 18 AWG	(2) 8 AWG	600V AC	BT2	**10K057**	500
	(2) 12 AWG	(5) 12 AWG	600V AC	WT52	**5VYN3**	500
Yellow	(2) 18 AWG	(3) 12 AWG	600V AC	WT51	**6VG26**	100
	(2) 18 AWG	(3) 12 AWG	600V AC	WT51	**5VYN2**	500
Blue	(3) 12 AWG	(2) 6 AWG	600V AC	WT54	**6VG29**	50
Blue/Gray	(2) 12 AWG	(2) 6 AWG	600V AC	B4	**6VG20**	25
IDEAL						
Orange	(2) 22 AWG	(3) 12 AWG	600V AC	340	**45WA81**	500
Tan	(3) 22 AWG	(3) 10 AWG	600V AC	341	**6LU48**	150
Gray	(3) 14 AWG	(2) 10 AWG with (4) 12 AWG Solid	600V AC	342	**6YH57**	50
Red	(2) 18 AWG	(4) 10 AWG	600V AC	452	**6YH59**	100
	(2) 18 AWG	(4) 10 AWG	600V AC	452	**6LU52**	300
Tan	(2) 18 AWG	(4) 10 AWG	600V AC	—	**60YE46**	500
Yellow	(2) 18 AWG	(3) 12 AWG	600V AC	451	**6YH58**	100
	(2) 18 AWG	(3) 12 AWG	600V AC	451	**6LU51**	225
Blue	(3) 12 AWG	(1) 6 AWG with (2) 8 AWG	600V AC	454	**4FA28**	25
Power First						
Red	(3) 16 AWG	(5) 12 AWG Solid	600V AC	P13	**5UYJ8**	100
	(3) 16 AWG	(5) 12 AWG Solid	600V AC	P13	**5UYJ1**	300
Yellow	(3) 18 AWG Solid	(3) 18 AWG with (1) 14 AWG	600V AC	P11V	**5UYJ7**	100
Blue	(2) 10 AWG	(2) 10 AWG with (1) 12 AWG	600V AC	P17	**5UYH6**	25

Twister® Al/Cu

WeatherProof® and UnderGround®

Special Use Wire Connectors

Color	Min. Wire Combination	Max. Wire Combination	Max. Voltage	Series	STANDARD PACKAGING Item No.	STANDARD PACKAGING Pkg. Qty.	BULK PACKAGING Item No.	BULK PACKAGING Pkg. Qty.
Twister® AL/CU								
Purple	(1) 12 AWG Solid with (1) 18 AWG	(1) 10 AWG	600V AC	65	**6YH48**	25	—	—
High Temperature Wire-Nut® (302°F/150°C)								
Black	(2) 22 AWG Stranded	(2) 16 AWG	300V AC	71B	**6VG15**	100	—	—
Black	(2) 22 AWG	(3) 16 AWG	300V AC	72B	**6VG16**	100	—	—
Black	(1) 18 AWG with (1) 20 AWG	(4) 16 AWG with (1) 20 AWG	600V AC	73B	**6VG17**	100	—	—
WeatherProof® Damp/Wet Location, Silicone Filled								
Gray/Orange	(2) 20 AWG	(2) 14 AWG	600V AC	61	**21GR18**	25	**21GR21**	150
Gray/Red	(2) 18 AWG	(3) 10 AWG	600V AC	62	**21GR19**	20	**21GR22**	100
Blue/Gray	(3) 14 AWG	(2) 8 AWG and (1) 10 AWG	600V AC	63	**21GR20**	15	**21GR23**	50
UnderGround® Direct Burial, Silicone Filled								
Gray	(1) 20 AWG with (1) 18 AWG	(1) 10 AWG with (2) 12 AWG	600V AC	60	**21GR24**	25	—	—
Blue/Gray	(1) 20 AWG with (1) to (2) 18 AWG	(1) 10 AWG with (2) 12 AWG to (3) 10 AWG	600V AC	60/64	**21GR25**	10	—	—

2-Port
Single Ballast Fixtures
1TPG6

3-Port
Multi-Ballast Fixtures
4JRK3

Power Plug® Luminaire/Ballast Disconnects

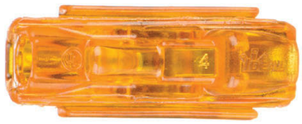
- Max. operating temp.: 105°C (221°F)
- Max. voltage: 600V
- Meet Canadian Electrical Code 30-308(4) standards
- Meet National Electrical Code 410.73(G) standards for nonresidential fluorescent luminaries with ballasts

Push-in technology enables quick connections without the need for tools. Designed for new, retrofit, or OEM lighting installations. Provide safe disconnect of hot and neutral ballast wiring. 2-pc. design allows ballast replacement while minimizing the risk of shock; passes UL 2459 and CSA finger probe requirements. Nylon and copper alloy construction.

20UU63

20UU64

No. of Ports	Color	Wire Size	Item No.	Pkg. Qty.	CHOOSE QUANTITY Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
New Installation or Retrofit								
2	Orange	18 to 12 AWG	**1TPG6**	25	**1TPG8**	75	**1TPG9**	150
3	Orange	18 to 12 AWG	**4JRK3**	20	—	—	**4JRK5**	100
Retrofit								
2	Orange	18 AWG	—	—	—	—	**4JRK6**	100
Twist-On Connector Kits								
Includes: (15) 103, (25) 33 Push-In Wire Connectors, (25) 42 In-Line Wire Connectors, (25) 72B Blue and (25) 73B Orange Twist Wire Connectors, (30) 102, and (50) 182 Luminaire Disconnects							**20UU63**	1
Includes: (100) 72B Blue Twist Wire Connectors, (30) 102 and (50) 182 Luminaire Disconnects, (50) 33 Push-In Wire Connectors, 7-in-1 Screwdriver/Nutdriver and Wire stripper							**20UU64**	1



SpliceLine™ Inline Wire Connectors

Feature crimp-free, push-in design that installs in half the time of traditional butt splices. Perfect for lengthening a short wire in a box or for surface raceway wiring. Easily pass through ½" knockouts. Transparent polycarbonate window allows visual inspection of connection. Check port allows continuity testing.

Color	Max. Wire Combination	BOX OF 100 Item No.	JAR OF 300 Item No.	BOX OF 2500 Item No.
Orange	12-20 Solid, 12-16 Stranded, 14-18 Tin-Bond Stranded	**5VYJ9**	**5VYK1**	**5VYK2**

5EKL2

5EKL3

5EKL4

In-Sure™ Push-In Wire Connectors

- Meet UL 467 for grounding and bonding applications
- Meet UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Max. voltage: 600V

Feature compact size making installations easy. No-twist connection reduces repetitive motion fatigue. Low insertion force allows fast and easy connections. Clear shell gives visual verification of connection. Accepts solid or stranded wire. UL Listed and CSA Certified.

Color	Connector Type	Max. Wire Combination	Item No.	Pkg. Qty.	CHOOSE QUANTITY Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Red	2 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL2**	100	**5VYJ3**	300	**5EKL5**	5000
Orange	3 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL3**	100	**5VYJ4**	250	**5EKL6**	5000
Yellow	4 Port	20-12 Solid, 16-12 Stranded (≤19 Strand), 18 Stranded (7 strand); 18-14 Tin-Bond Stranded (≤19 Strand) AWG	**5EKL4**	100	**5VYJ5**	200	**5EKL7**	5000
Blue	3 Port	14-10 Solid, 12-10 Stranded (≤19 Strand), 14-10 Tin-Bond Stranded (≤19 Strand) AWG	**5VYJ6**	50	**5VYJ7**	150	—	—

Insulation Displacement Connectors

INLINE TAPS

Connectors electrically join a tap wire to a through-run wire. Self-stripping.

T-TAPS

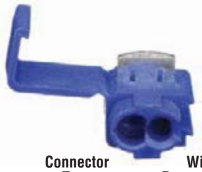
Fully insulated connectors eliminate wire stripping. Connector mates with 0.250" male tabs, making a quick-connect wiring connection.

BUTT SPLICES

Squeeze-shut connectors eliminate stripping and twisting. Insulated connection is sealant-filled with a mineral oil-based grease and flame retardant, to provide a moisture-resistant seal.

DIRECT BURIAL SPLICE CONNECTOR KIT

Designed for splicing underground wire connectors and moisture-sealing 2 or more conductors for remote control circuits in irrigation and landscaping. Insulator tube is prefilled. Splice is reenterable. No crimping tools are required. Kit includes 2 tubes of sealant and 2 connectors. UL Listed for direct burial.



Inline Tap 1A075

T-Taps 22EW65

Butt Splice 4FE28

Connector Type	Wire Range (Run)	Max. Insulation Dia.	Max. Temp.	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Inline Taps								
Double U-Element	22 to 16 AWG	0.12 in	221°F	Red	3M	558-POUCH	**4YT73**	100
Double U-Element	22 to 16 AWG	0.12 in	221°F	Red	3M	557	**4YT79**	100
Single U-Element	22 to 14 AWG	0.110 in Tap and 0.145 in Run	194°F	Red	3M	905-POUCH	**4YT50**	50
Single U-Element	18 to 16 AWG	0.145 in	221°F	Blue	3M	560B BOX	**4YT77** †	100
Single U-Element	18 to 14 AWG	0.145 in	221°F	Blue	3M	801	**1A075**	50
Run Tap	12 to 10 AWG	0.110 in Tap and 0.145 in Run	221°F	Brown	3M	567 BOX	**4YT74** †	100
Single U-Element	12 AWG	0.19 in	194°F	Yellow	3M	562 BOX	**4YT69**	100
Run Tap	22 to 16 AWG	3.6 mm	221°F	Red	Power First	22EW60	**22EW60**	100
Run Tap	22 to 18 AWG	3.05 mm	221°F	Red	Power First	22EW61	**22EW61**	50
Run Tap	18 to 14 AWG	3.5 mm	221°F	Blue	Power First	22EW62	**22EW62**	100
Run Tap	12 to 10 AWG	3.50mm Tap and 4.80mm Run	221°F	Brown	Power First	22EW63	**22EW63**	100
T-Taps (¼" Quick-Connect Tab)								
T Tap	22 to 18 AWG	0.15 in	221°F	Red	3M	951X-BOTTLE	**4YT71**	50
T Tap	18 to 14 AWG	0.15 in	221°F	Blue	3M	952X-BOTTLE	**1A074**	50
T Tap	12 AWG	0.15 in	221°F	Yellow	3M	953X-BOTTLE	**4YT72**	50
T Tap	22 to 18 AWG	3.81 mm	221°F	Red	Power First	22EW65	**22EW65**	50
T Tap	18 to 14 AWG	3.81 mm	221°F	Blue	Power First	22EW66	**22EW66**	50
T Tap	12 AWG	3.81 mm	221°F	Yellow	Power First	22EW67	**22EW67**	50
Butt Splices								
Run Tap	20 to 18 AWG	0.15 in	221°F	Black	3M	MGC PK25	**4DYW6**	25
Run Tap	20 to 18 AWG	0.15 in	221°F	Black	3M	MGC(100/JUG)	**4DYW7**	100
Butt Splice	26 to 19 AWG	0.082 in	140°F	Red	Corning	80611327653	**4DYX5**	500
Butt Splice	26 to 19 AWG	0.082 in	140°F	Yellow	Corning	80611327869	**4DYX6**	500
Butt Splice	26 to 19 AWG	0.082 in	140°F	Red	Corning	80611327596	**4FE27**	100
Butt Splice	26 to 19 AWG	0.082 in	140°F	Yellow	Corning	80611326796	**4FE28**	100
Single U-Element	22 to 16 AWG	0.155 in	221°F	Black	3M	316-IR BAG	**4FE24**	30
Direct Burial Splice Kit Kit								
—	—	—	221°F	Yellow	3M	DBR/Y-6(KIT)	**10G854**	1
Crimping Tools								
Heavy-Duty	—	—	—	—	Corning	80611141294	**4DYX1**	1

† Includes port window for visual check on tap wire position.

B-Connectors

"Funnel Entry Design" ensures high contact integrity for multiple metallic connections; locks in-place with permanent spring compression. High mechanical strength. Flame-retardant PVC insulation provides long, constant service in telecommunications and electrical power applications. UL Listed.

Wire Range (Run)	Max. Insulation Dia.	Max. Temp.	Mfr. Model	WHITE Item No.	WHITE Pkg. Qty.	BLUE, SEALANT FILLED Item No.	BLUE, SEALANT FILLED Pkg. Qty.
26 to 16 AWG	0.194 in	221°F	DC-100	**4KEC8**	100	**4KED1**	100
26 to 16 AWG	0.194 in	221°F	DC-1000	**4KED2**	1000	**4KEC9**	1000
Crimping Tools							
Ratcheting Action, For Use with Insulated and Noninsulated Terminals and Connectors			DC-4141	**4KEC3**	1	—	—

4KEC8

Motor Pigtail Connectors

- Tin-plated copper
- For 600V, 90°C applications

Quick-connectors provide fast, reliable electric motor changeout without bolting or taping. Snap-together assembly meets or exceeds the electrical and mechanical performance of bolted connections. Constructed with louvered contact bands. Equal body sizes can be mixed and matched. Reusable thermoplastic elastomer insulation boots keep assembly small for tight motor housings. UL Listed and CSA Certified.

Wire Gauge	Color Code	Body Size	FEMALE Item No.	MALE Item No.
Motor Lead Disconnects				
16 to 14 AWG	Blue	0	**1DNX1**	**1DNX2**
16 to 14 AWG	Blue	1	**1DNX3**	**1DNX4**
12 to 10 AWG	Yellow	1	**1DNX5**	**1DNX6**
12 to 10 AWG	Yellow	2	**1DNX7**	**1DNX8**
8 AWG	Red	1	**1DNX9**	**1DNY1**
8 AWG	Red	2	**1DNY2**	**1DNY3**
6 AWG	Blue	1	**1DNY4**	**1DNY5**
6 AWG	Blue	2	**1DNY6**	**1DNY7**
4 AWG	Gray	2	**1DNY8**	**1DNY9**
2 AWG	Brown	2	**1DNZ1**	**1DNZ2**
2 AWG	Brown	3	**1DNZ3**	**1DNZ4**
1 AWG	Green	2	**1DNZ5**	**1DNZ6**
1 AWG	Green	3	**1DNZ7**	**1DNZ8**
1/0	Pink	3	**1DNZ9**	**1DPA1**
2/0	Black	3	**1DPA2**	**1DPA3**
3/0	Orange	3	**1DPA4**	**1DPA5**
4/0	Purple	3	**1DPA6**	**1DPA7**

Body Size	Item No.
Motor Disconnect Boots	
0	**1DPA8**
1	**1DPA9**
2	**1DPB1**
3	**1DPB2**

1DNX1

1DNX2

1DPA8

B-TAP® Insulation Piercing Tap Connectors

- Max. voltage: 600V

Feature breakaway nut for perfect torque; no stripping or taping required. Install safely on energized system. Dual-rated for copper and aluminum. UL Listed and CSA Certified.

Wire Range (Run)	Wire Range (Tap)	Item No.
8 AWG to 1/0 AWG	10 to 2 AWG	**10K073**
4 AWG to 2/0 AWG	14 to 10 AWG	**10K074**
3 AWG to 4/0 AWG	10 to 2 AWG	**10K076**
1/0 AWG to 350 kcmil	1/0 AWG to 350 kcmil	**10K079**
2/0 AWG to 500 kcmil	4 AWG to 4/0 AWG	**10K080**
4/0 AWG to 500 kcmil	1/0 AWG to 350 kcmil	**10K081**
3/0 AWG to 750 kcmil	14 to 10 AWG	**10K082**

10K073

10K079

Burndy Double-Sided Entry, T
22C261

Blackburn Double-Sided Entry, T
1YRL3

Polaris Single-Sided Entry, L
14V962

No. of Ports	Min. Conductor Size	Max. Conductor Size	L	Stud Size	Insulation Material	Mfr. Model	Item No.
Double-Sided Entry, T Insulated Multitap Connectors							
POLARIS							
2	14 AWG	1/0 AWG	3.25 in	3/16 in	Plastisol	ISR-1/0B	**14V967**
	14 AWG	1/0 AWG	3.25 in	3/16 in	Plastisol	ISR-1/0CB	**199XU0**
	6 AWG	250 kcmil	4.0 in	5/16 in	Plastisol	ISR-250B	**14V968**
	6 AWG	350 kcmil	4.47 in	5/16 in	Plastisol	ISR-350B	**14V969**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	ISR-600B	**34UH99**
	6 AWG	600 kcmil	2.34 in	5/16 in	Plastisol	IT-600B	**34UJ01**
	6 AWG	250 kcmil	4.0 in	5/16 in	Plastisol	ISR-250CB	**199XU1**
	6 AWG	350 kcmil	4.47 in	5/16 in	Plastisol	ISR-350CB	**199XU2**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	ISR-600CB	**199XU4**
	4 AWG	500 kcmil	4.62 in	5/16 in	PVC	ISR-500B	**14V970**
	4 AWG	500 kcmil	4.62 in	5/16 in	Plastisol	ISR-500CB	**199XU3**
	1/0 AWG	750 kcmil	7.25 in	5/16 in	Plastisol	ISRH-750C	**199XU5**
3	6 AWG	3/0 AWG	2.65 in	1/4 in	Plastisol	IPLD3/0-3B	**14V973**
	6 AWG	250 kcmil	2.99 in	5/16 in	Plastisol	IPLD250-3B	**14V975**
	6 AWG	350 kcmil	3.52 in	5/16 in	Plastisol	IPLD350-3B	**14V978**
	4 AWG	500 kcmil	4.01 in	5/16 in	Plastisol	IPLD500-3B	**14V981**
4	4 AWG	500 AWG	5.16 in	5/16 in	Plastisol	IPLD500-4B	**14V982**
BURNDY							
2	14 AWG	1/0 AWG	2.91 in	3/16 in	Plastisol	BISR1/0	**22C249**
	14 AWG	2 AWG	2.38 in	5/16 in	Plastisol	BISR2	**22C250**
	14 AWG	2/0 AWG	1.56 in	3/8 in	PVC	1PLD2/02	**22C267**
	14 AWG	1/0 AWG	2.91 in	5/16 in	Plastisol	1PBS1/0	**22C269**
	14 AWG	2 AWG	2.38 in	3/16 in	Plastisol	1PBS2	**22C277**
	10 AWG	250 kcmil	4.01 in	3/16 in	Plastisol	BISR250	**22C247**
	10 AWG	250 kcmil	2.64 in	5/16 in	PVC	BIBD2502	**22C259**
	10 AWG	250 kcmil	4.01 in	5/16 in	Plastisol	1PBS250	**22C268**
	10 AWG	250 kcmil	2.64 in	3/16 in	PVC	1PLD2502	**22C273**
	10 AWG	350 kcmil	4.63 in	5/16 in	Plastisol	1PBS350	**22C283**
	6 AWG	500 kcmil	5.0 in	3/8 in	Plastisol	BISR500	**22C261**
	6 AWG	500 kcmil	5.0 in	1/2 in	Plastisol	1PBS500	**22C280**
	6 AWG	4 AWG	4.3 in	1/8 in	Plastisol	BISR4DB	**22C284**
	4 AWG	600 kcmil	3.0 in	5/16 in	Plastisol	1PLD6002	**22C276**
	2 AWG	1 AWG	6.3 in	5/16 in	Plastisol	BISR1DB	**22C286**
	1/0	3/0 AWG	6.25 in	3/16 in	Plastisol	BISR3/0DB	**22C287**
	4/0	250 kcmil	6.7 in	5/16 in	Plastisol	BISR250DB	**22C285**
3	14 AWG	2/0 AWG	2.19 in	3/16 in	PVC	BIBD2/03	**22C253**
	14 AWG	4 AWG	1.51 in	3/16 in	PVC	BIBD43	**22C263**
	14 AWG	2/0 AWG	2.19 in	5/16 in	PVC	1PLD2/03	**22C271**
	10 AWG	250 kcmil	2.97 in	3/8 in	PVC	BIBD2503	**22C251**
	10 AWG	250 kcmil	2.97 in	3/8 in	PVC	1PLD2503	**22C274**
4	14 AWG	2/0 AWG	2.86 in	5/16 in	PVC	1PLD2/04	**22C282**
	10 AWG	250 kcmil	3.91 in	1/4 in	Plastisol	BIBD2504	**22C258**
BLACKBURN							
2	14 AWG	1/0 AWG	3.5 in	3/16 in	Plastisol	AMTSR10	**1YRL3**
	10 AWG	350 kcmil	4.38 in	5/16 in	PVC	AMTD350102	**1YRK8**
	6 AWG	250 kcmil	4.13 in	5/16 in	Plastisol	AMTSR250	**1YRL4**
	6 AWG	350 kcmil	4.88 in	5/16 in	Plastisol	AMTSR350	**1YRL5**
	6 AWG	500 kcmil	5.0 in	5/16 in	PVC	AMTD50064	**1YRK7**
	6 AWG	500 kcmil	7.5 in	5/16 in	PVC	AMTD50066	**1YRL1**
3	10 AWG	250 kcmil	3.0 in	5/16 in	PVC	AMTD250103	**1YRJ9**
	10 AWG	350 kcmil	3.5 in	3/16 in	PVC	AMTD350103	**1YRK2**
	6 AWG	500 kcmil	3.88 in	3/8 in	PVC	AMTD50063	**1YRK1**
4	10 AWG	250 kcmil	3.88 in	5/16 in	PVC	AMTD250104	**1YRK5**
	10 AWG	350 kcmil	4.5 in	3/16 in	PVC	AMTD350104	**1YRK4**
	4 AWG	500 kcmil	5.5 in	3/8 in	Plastisol	AMTSR500	**1YRL6**
5	10 AWG	250 kcmil	4.63 in	3/8 in	PVC	AMTD250105	**1YRK9**
6	10 AWG	350 kcmil	6.63 in	3/16 in	PVC	AMTD350106	**1YRL2**
Double-Sided Entry, Z Insulated Multitap Connectors							
POLARIS							
2	6 AWG	250 kcmil	2.12 in	5/16 in	Plastisol	IT-250CB	**199XU7**
	6 AWG	350 kcmil	2.47 in	5/16 in	Plastisol	IT-350CB	**199XU9**
	6 AWG	500 kcmil	2.81 in	5/16 in	Plastisol	IT-500CB	**199XV1**
	6 AWG	600 kcmil	2.34 in	5/16 in	Plastisol	IT-600CB	**199XV2**
	250 kcmil	750 kcmil	3.48 in	3/8 in	Plastisol	IT-750CB	**199XV3**
3	14 AWG	4 AWG	1.54 in	5/16 in	Plastisol	IPL4-3B	**14V971**
	14 AWG	1/0 AWG	2.27 in	3/16 in	Plastisol	IPL1/0-3B	**14V972**
	6 AWG	250 kcmil	2.99 in	5/16 in	Plastisol	IPLD250-3CB	**199XP9**
	6 AWG	3/0 AWG	2.65 in	1/4 in	Plastisol	IPLD3/0-3CB	**199XR3**
	6 AWG	350 kcmil	3.52 in	5/16 in	Plastisol	IPLD350-3CB	**199XR5**
	6 AWG	600 kcmil	3.41 in	5/16 in	Plastisol	IPLD600-3CB	**199XT6**
	4 AWG	500 kcmil	4.01 in	5/16 in	Plastisol	IPLD500-3CB	**199XT1**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-3CB	**199XT8**
4	6 AWG	250 kcmil	3.85 in	5/16 in	Plastisol	IPLD250-4CB	**199XR0**
	6 AWG	3/0 AWG	3.41 in	1/4 in	Plastisol	IPLD3/0-4CB	**199XR4**
	6 AWG	350 kcmil	4.57 in	5/16 in	Plastisol	IPLD350-4CB	**199XR6**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	IPLD600-4CB	**199XT7**
	4 AWG	500 kcmil	5.16 in	5/16 in	Plastisol	IPLD500-4CB	**199XT2**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-4CB	**199XT9**

POLARIS™ nsi BURNDY® Blackburn® Multitap Connectors

These connectors are suitable for connecting two or more wires, and feature removable access plugs, and are abrasion- and chemical-resistant. Insulated with specifically formulated high-strength dielectric and molded for precise fit. Suitable for use with aluminum and/or copper conductors.

No. of Ports	Min. Conductor Size	Max. Conductor Size	L	Stud Size	Insulation Material	Mfr. Model	Item No.
5	6 AWG	250 kcmil	4.71 in	5/16 in	Plastisol	IPLD250-5CB	**199XR1**
	6 AWG	350 kcmil	5.62 in	5/16 in	Plastisol	IPLD350-5CB	**199XR7**
	4 AWG	500 kcmil	6.38 in	5/16 in	Plastisol	IPLD500-5C	**199XT3**
6	6 AWG	250 kcmil	5.52 in	5/16 in	Plastisol	IPLD250-6CB	**199XR2**
	6 AWG	350 kcmil	6.67 in	5/16 in	Plastisol	IPLD350-6CB	**199XR8**
	4 AWG	500 kcmil	7.45 in	5/16 in	Plastisol	IPLD500-6CB	**199XT4**
8	6 AWG	350 kcmil	8.77 in	5/16 in	Plastisol	IPLD350-8C	**199XR9**
	4 AWG	550 kcmil	9.82 in	5/16 in	Plastisol	IPLD500-8CB	**199XT5**
10	4 AWG	500 kcmil	12.11 in	5/16 in	Plastisol	IPLD500-10C	**199XT0**
BURNDY							
2	14 AWG	2/0 AWG	1.56 in	11/16 in	Plastisol	BITO2/0	**22C257**
BLACKBURN							
2	14 AWG	4 AWG	2.25 in	1/8 in	Plastisol	AMTTC4	**1YRJ8**
	14 AWG	2/0 AWG	1.5 in	3/16 in	Plastisol	AMTT20	**1YRJ4**
	10 AWG	250 kcmil	2.0 in	1/4 in	Plastisol	AMTT250	**1YRJ6**
Single-Sided Entry L Insulated Multitap Connectors							
POLARIS							
2	14 AWG	4 AWG	1.07 in	5/16 in	PVC	IT-4B	**14V959**
	14 AWG	1/0 AWG	1.62 in	5/16 in	Plastisol	IT-1/0B	**14V961**
	14 AWG	1/0 AWG	1.62 in	3/16 in	Plastisol	IT-1/0CB	**199XU6**
	14 AWG	4 AWG	1.07 in	1/8 in	Plastisol	IT-4CB	**199XV0**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	IT-3/0B	**14V962**
	6 AWG	250 kcmil	2.13 in	5/16 in	Plastisol	IT-250B	**14V963**
	6 AWG	350 kcmil	2.47 in	5/16 in	Plastisol	IT-350B	**14V964**
	6 AWG	3/0 AWG	1.84 in	1/4 in	Plastisol	IT-3/0CB	**199XU8**
	4 AWG	500 kcmil	2.87 in	5/16 in	Plastisol	IT-500B	**14V965**
	250 kcmil	750 kcmil	3.48 in	3/8 in	Plastisol	IT-750B	**14V966**
3	14 AWG	1/0 AWG	2.24 in	3/16 in	Plastisol	IPL1/0-3CB	**199XN6**
	14 AWG	4 AWG	1.54 in	1/8 in	Plastisol	IPL4-3CB	**199XP3**
	6 AWG	250 kcmil	2.93 in	3/16 in	Plastisol	IPL250-3B	**34UH88**
	6 AWG	3/0 AWG	2.63 in	5/16 in	Plastisol	IPL3/0-3B	**34UH90**
	6 AWG	600 kcmil	3.41 in	5/16 in	Plastisol	IPLD600-3B	**34UH95**
	6 AWG	250 kcmil	2.93 in	5/16 in	Plastisol	IPL250-3CB	**199XN8**
	6 AWG	3/0 AWG	2.63 in	1/4 in	Plastisol	IPL3/0-3CB	**199XP0**
	6 AWG	350 kcmil	3.47 in	5/16 in	Plastisol	IPL350-3C	**199XP2**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-3B	**34UH97**
	500 kcmil	4 AWG	3.96 in	5/16 in	Plastisol	IPL500-3C	**199XP7**
4	14 AWG	1/0 AWG	2.89 in	3/16 in	Plastisol	IPL1/0-4B	**34UH87**
	14 AWG	1/0 AWG	2.89 in	3/16 in	Plastisol	IPL1/0-4CB	**199XN7**
	14 AWG	4 AWG	1.97 in	1/8 in	Plastisol	IPL4-4CB	**199XP4**
	6 AWG	3/0 AWG	3.43 in	1/4 in	Plastisol	IPLD3/0-4B	**14V974**
	6 AWG	250 kcmil	3.85 in	5/16 in	Plastisol	IPLD250-4B	**14V976**
	6 AWG	350 kcmil	4.57 in	5/16 in	Plastisol	IPLD350-4B	**14V979**
	6 AWG	250 kcmil	3.8 in	5/16 in	Plastisol	IPL250-4B	**34UH89**
	6 AWG	3/0 AWG	3.41 in	5/16 in	Plastisol	IPL3/0-4B	**34UH91**
	6 AWG	600 kcmil	5.83 in	5/16 in	Plastisol	IPLD600-4B	**34UH96**
	6 AWG	6 AWG	3.8 in	5/16 in	Plastisol	IPL250-4CB	**199XN9**
	6 AWG	3/0 AWG	3.41 in	1/4 in	Plastisol	IPL3/0-4CB	**199XP1**
	250 kcmil	750 kcmil	7.25 in	5/16 in	Plastisol	IPLD750-4B	**34UH98**
	500 kcmil	4 AWG	5.11 in	5/16 in	Plastisol	IPL500-4C	**199XP8**
5	14 AWG	4 AWG	2.39 in	1/8 in	Plastisol	IPL4-5CB	**199XP5**
	6 AWG	250 kcmil	4.71 in	5/16 in	Plastisol	IPLD250-5B	**14V977**
	6 AWG	350 kcmil	5.62 in	5/16 in	Plastisol	IPLD350-5B	**14V980**
6	14 AWG	4 AWG	2.81 in	1/8 in	Plastisol	IPL4-6CB	**199XP6**
	6 AWG	250 kcmil	5.52 in	5/16 in	Plastisol	IPLD250-6B	**34UH92**
	6 AWG	350 kcmil	6.6 in	5/16 in	Plastisol	IPLD350-6B	**34UH93**
	4 AWG	500 kcmil	7.45 in	5/16 in	Plastisol	IPLD500-6B	**14V983**
8	4 AWG	550 kcmil	9.82 in	5/16 in	Plastisol	IPLD500-8B	**34UH94**
BURNDY							
2	14 AWG	4 AWG	1.25 in	1/8 in	PVC	BIT4	**22C244**
	14 AWG	2/0 AWG	1.52 in	1/8 in	PVC	BIT2/0	**22C245**
	14 AWG	2/0 AWG	1.56 in	3/16 in	PVC	BIBD2/02	**22C254**
	14 AWG	4 AWG	1.25 in	1/8 in	Plastisol	1PL42	**22C264**
	14 AWG	2/0 AWG	1.52 in	3/16 in	Plastisol	1PL2/02	**22C265**
	10 AWG	250 kcmil	2.13 in	1/4 in	Plastisol	BIT250	**22C246**
	10 AWG	350 kcmil	2.5 in	1/8 in	Plastisol	BIT350	**22C260**
	10 AWG	250 kcmil	2.13 in	5/16 in	Plastisol	1PL2502	**22C270**
	10 AWG	350 kcmil	2.5 in	3/16 in	Plastisol	1PL3502	**22C281**
	4 AWG	600 kcmil	2.75 in	1/8 in	Plastisol	BIT600	**22C256**
	4 AWG	600 kcmil	2.75 in	1/8 in	Plastisol	1PL6002	**22C278**
3	14 AWG	4 AWG	1.51 in	1/8 in	Plastisol	BIBS43	**22C248**
	14 AWG	2/0 AWG	2.19 in	5/16 in	Plastisol	BIBS2/03	**22C252**
	14 AWG	4 AWG	1.51 in	1/8 in	PVC	1PL43	**22C266**
	14 AWG	2/0 AWG	2.19 in	3/16 in	PVC	1PL2/03	**22C272**
	10 AWG	250 kcmil	2.97 in	5/16 in	PVC	BIBS2503	**22C262**
	10 AWG	250 kcmil	2.97 in	5/16 in	PVC	1PL2503	**22C279**
4	14 AWG	4 AWG	1.95 in	5/16 in	Plastisol	BIBS44	**22C255**
	14 AWG	4 AWG	1.95 in	1/8 in	Plastisol	1PL44	**22C275**
BLACKBURN							
2	14 AWG	4 AWG	1.1 in	3/16 in	Plastisol	AMTC4	**1YRJ2**
	14 AWG	2/0 AWG	1.67 in	3/16 in	PVC	AMT20	**1YRJ1**
	10 AWG	250 kcmil	2.0 in	5/16 in	Plastisol	AMT250	**1YRJ3**
	10 AWG	350 kcmil	2.63 in	5/16 in	Plastisol	AMT350	**1YRJ5**
	6 AWG	500 kcmil	2.88 in	3/8 in	Plastisol	AMT500	**1YRJ7**
3	10 AWG	350 kcmil	3.25 in	5/16 in	PVC	AMTS350103	**1YRK3**
4	14 AWG	4 AWG	2.0 in	3/16 in	Plastisol	AMTS414	**1YRK6**

3LR06

3LT05

3LN73

3LN44

3LN33

3LN42

Blackburn

Mechanical Connectors

UL Listed and CSA Certified (except 3LN73 and 3LN36 are not CSA Certified).

Min. Conductor Size	Max. Conductor Size	Head Style	Mfr. Model	Item No.	
Electrolytic Copper, 1-Conductor, 1-Hole - Compact					
14 AWG Solid	8 AWG Stranded	Slotted	L35	**3LR06**	
14 AWG Solid	4 AWG Stranded	Slotted	L70	**3LR08**	
8 AWG Solid	1/0 AWG Stranded	Socket	L125BB	**3LR04**	
6 AWG Stranded	250 kcmil Stranded	Socket	L250	**3LR05**	
4/0 AWG Stranded	500 kcmil Stranded	Slotted Socket	L400-BB	**3LR07**	†
Electrolytic Copper, 1-Conductor, 1-Hole - Straight Tang					
14 AWG Solid	6 AWG Stranded	Slotted	STC0614	**3LT05**	
14 AWG Solid	4 AWG Stranded	Slotted	STC0414	**3LT04**	
8 AWG Stranded	2 AWG Stranded	Hex	STC0208	**3LT03**	
2 AWG Stranded	1/0 AWG Stranded	Hex	STC1102	**3LT06**	
4 AWG Stranded	3/0 AWG Stranded	Hex	STC3104	**3LT07**	
1/0 AWG Stranded	500 kcmil Stranded	Hex	STC5011	**3LT08**	
Electrolytic Copper, 1-Conductor, 1-Hole - Offset Tang					
14 AWG Solid	10 AWG Stranded	Slotted	BTC1014	**3LN73**	*
14 AWG Solid	6 AWG Stranded	Slotted	BTC0614	**3LN72**	
8 AWG Stranded	2 AWG Stranded	Slotted	BTC0208	**3LN71**	
2 AWG Stranded	1/0 AWG Stranded	Hex	BTC1102	**3LN74**	
4 AWG Stranded	3/0 AWG Stranded	Hex	BTC3104	**3LN75**	
2 AWG Stranded	4/0 AWG Stranded	Hex	BTC4102	**3LN77**	
1/0 AWG Stranded	350 kcmil Stranded	Hex	BTC3511	**3LN76**	
1/0 AWG Stranded	500 kcmil Stranded	Hex	BTC5011	**3LN78**	
Aluminum, 1-Conductor, 1-Hole - Dual Rated Lug					
14 AWG Solid	6 AWG Stranded	Slotted	ADR6	**3LN44**	
14 AWG Solid	2 AWG Stranded	Slotted	ADR2	**3LN34**	
14 AWG Solid	1/0 AWG Stranded	Slotted	ADR11	**3LN32**	
14 AWG Solid	2/0 AWG Stranded	Slotted	ADR21	**3LN35**	
6 AWG Stranded	250 kcmil Stranded	Socket	ADR25	**3LN37**	
6 AWG Stranded	300 kcmil Stranded	Socket	ADR30	**3LN39**	
6 AWG Stranded	350 kcmil Stranded	Socket	ADR35	**3LN40**	
4 AWG Stranded	500 kcmil Stranded	Socket	ADR50	**3LN43**	
Aluminum, 2-Conductor, 1-Hole - Dual Rated Lug					
14 AWG Solid	1/0 AWG Stranded	Slotted	ADR11-21	**3LN33**	
14 AWG Solid	2/0 AWG Stranded	Slotted	ADR21-21	**3LN36**	*
6 AWG Stranded	250 kcmil Stranded	Socket	ADR25-21	**3LN38**	
6 AWG Stranded	350 kcmil Stranded	Socket	ADR35-21	**3LN41**	
2 AWG Stranded	600 kcmil Stranded	Hex	ADR60-21	**3LN45**	
Aluminum, 2-Conductor, 2-Hole - Dual Rated Lug					
6 AWG Stranded	350 kcmil Stranded	Hex	ADR35-22	**3LN42**	
2 AWG Stranded	600 kcmil Stranded	Double Hex	ADR60-22D	**3LN46**	

** Not CSA Certified. † Bronze alloy.*

High-Strength, Split-Bolt Connector

- High-strength corrosion-resistant bronze alloy
- Cooper pressure bar

Ideal for copper-to-copper connections. UL Listed and CSA Certified.

Wire Range w/Equal Main and Tap (AWG)	Min. Tap Conductor w/1 Max. Main (AWG)	Item No.
250 kcmil to 1 str	8 str	**6CYZ3**

6CYZ3

22A947

22A948

22C163

22C086

22C062

BURNDY

Split-Bolt Connectors

Highly resistant to cracking and corrosion. Provide maximum pressure and a secure connection on all combinations of run and tap conductors.

Wire Range w/Equal Main and Tap (AWG)	Min. Tap Conductor w/1 Max. Main (AWG)	Mfr. Model	Item No.
Split-Bolt Connector			
12 str to 10 str	16 str	KS90	**22A936**
10 str to 8 str	14 str	KS15	**22A937**
8 str to 6 sol	14 str	KS17	**22A932**
8 str to 6 sol	16 str	KS173	**22A945**
8 str to 6 sol	14 str	KS20	**22A933**
8 str to 4 sol	14 str	KS203	**22A946**
6 str to 2 sol	14 str	KS22	**22A934**
6 str to 2 sol	14 str	KS223	**22A947**
6 str to 2 str	14 str	KS23	**22A931**
4 str to 1/0 str	14 str	KS25	**22A935**
2 str to 2/0 str	14 str	KS26	**22A938**
1 str to 3/0 str	8 str	KS27	**22A940**
1 str to 250 kcmil	8 str	KS29	**22A939**
1/0 str to 350 kcmil	1/0 str	KS31	**22A942**
2/0 str to 500 kcmil	2/0 str	KS34	**22A941**
4/0 str to 750 kcmil	4/0 str	KS39	**22A943**
300 kcmil to 1000 kcmil	4/0 str	KS44	**22A944**
12 sol to 6 sol	12 sol	KSU17	**22A953**
10 sol to 4 sol	10 sol	KSU20	**22A951**
10 sol to 2 sol	10 sol	KSU22	**22A952**
8 str to 2 str	8 sol	KSU23	**22A948**
2 str to 1/0 str	10 str	KSU25	**22A950**
2 str to 2/0 str	8 str	KSU26	**22A949**
1 str to 3/0 str	8 sol	KSU27	**22A957**
1 str to 250 kcmil	8 str	KSU29	**22A954**
1/0 str to 350 kcmil	1/0 str	KSU31	**22A955**
6 sol to 2 str	8 sol	KSA2	**22C163**
8 str to 4 str	8 sol	KSA4	**22C165**
10 sol to 6 str	10 sol	KSA6	**22C164**
2 str to 1/0 str	8 sol	KSA1/0	**22C168**
2 str to 2/0 str	8 str	KSA2/0	**22C167**
4/0 str to 4/0 str	6 str	KSA4/0	**22C166**
1/0 str to 350 kcmil	4 str	KSA350	**22C170**
400 kcmil to 500 kcmil	2 str	KSA500	**22C169**
Plastic Cover for Split-Bolt Connectors			
6 str to 2 str	14 str	SC2	**22C086**
8 str to 6 sol	14 str	SC4	**22C087**
4 str to 1/0 str	14 str	SC2/0	**22C088**
Grounding Split Bolt Connector with Stud			
8 to 2 AWG STR	—	KC23	**22C062**
2 to 2/0 AWG STR	—	KC26	**22C063**
2 to 2/0 AWG STR	—	KC26B1	**22C064**
8 to 2 AWG STR	—	KC23B1	**22C065**
2 to 1/0 AWG STR	—	KC25	**22C066**
4/0 AWG 1 to 1 AWG	—	KC28	**22C068**
4/0 AWG 1 to 1 AWG	—	KC28B1	**22C069**
10 to 7 AWG STR	—	KC17	**22C070**
10 to 5 AWG STR	—	KC20	**22C071**
2 to 1/0 AWG STR	—	K2C25	**22C072**
2 to 2/0 AWG STR	—	K2C26B1	**22C073**
2 to 2/0 AWG STR	—	K2C26	**22C074**
8 to 2 AWG STR	—	K2C23B1	**22C075**
10 to 5 AWG STR	—	K2C20	**22C076**
8 to 2 AWG STR	—	K2C23	**22C077**
4/0 AWG 1 to 1 AWG	—	K2C28B1	**22C078**
10 to 3 AWG STR	—	K2C22B1	**22C079**
Transformer Ground Connector			
10 AWG STR to 3 AWG	—	KC22J12T13	**22C080**
Combination Connector Kits			
Includes Nos. 22A931 and 22A932			**7DX22**
Includes Nos. 22A931, 22A932, 22A933 and 22A937			**7DX23**
Includes Nos. 22A933, 22A951, 22A953 and 22C087			**7DX24**
Includes Nos. 22A931, 22A934, 22A948, 22A952 and 22C086			**7DX25**
Includes Nos. 22A935, 22A938, 22A949, 22A950 and 22C088			**7DX26**

BURNDY®

Mechanical Connectors

Description	Mfr. Model	Item No.
Insulated Gutter Connectors		
14 AWG to 250 kcmil	KPU29A26AC	**22C221**
6 AWG to 250 kcmil	KPU29A29AC	**22C219**
14 AWG to 500 kcmil	KPU34A26AC	**22C223**
6 AWG to 500 kcmil	KPU34A34AC	**22C220**
1/0 to 750 kcmil	KPU39A39AC	**22C222**
Mechanical Connectors		
14 AWG Str. to 1/0 AWG Sol. and Str.	AMS0	**22C212**
14 AWG Str. to 2 AWG Sol. and Str.	AMS2	**22C210**
6 AWG Str. to 4/0 AWG Sol. and Str.	AMS4/0	**22C211**
6 AWG Str. to 250 kcmil Sol.	AMS250	**22C213**
6 AWG Str. to 350 kcmil Str.	AMS350	**22C214**
3/0 Str./Sol. to 4/0 AWG Sol., 500 kcmil Str.	AMS500	**22C215**
250 kcmil Str. to 750 kcmil Str.	AMS750	**22C216**
1/0 AWG Str. to 250 kcmil Str.	ASA250U	**22C226**
1/0 AWG Str. to 800 kcmil Str.	ASA800U	**22C225**
1/0 AWG Str. to 1000 kcmil Str.	ASA1000U	**22C227**
14 AWG Str. to 1/0 AWG Str.	K2A25U	**22C189**
14 AWG Str. to 2/0 AWG Str.	K2A26U	**22C191**
6 AWG Str. to 250 kcmil Str.	K2A29U	**22C190**
6 AWG Str. to 350 kcmil Str.	K2A31U	**22C192**
6 AWG Str. to 350 kcmil Str.	K2A31U2N	**22C195**
2 AWG Str. to 600 kcmil Str.	K2A36U	**22C193**
2 AWG Str. to 600 kcmil Str.	K2A36U2N	**22C194**
14 AWG Str. to 2 AWG Str.	K3A2U2	**22C201**
14 AWG Str. to 1/0 AWG Str.	K3A25U2	**22C202**
14 AWG Str. to 2/0 AWG Str.	K3A26U2N	**22C204**
6 AWG Str. to 250 kcmil Str.	K3A29U2N	**22C203**
2 AWG Str. to 600 kcmil Str.	K3A36U2N	**22C205**
6 AWG Str. to 250 kcmil Str.	K4A29U4N	**22C206**
4 AWG Sol., 6 AWG Str. to 300 kcmil Str., 4/0 AWG Sol.	K11A30U	**22C196**
1 AWG Sol., 2 AWG Str. to 4/0 AWG Sol., 600 kcmil Str.	K11A36U2	**22C197**
2 AWG Str. to 600 kcmil Str.	K21A36U2	**22C207**
2 AWG Str. to 600 kcmil Str.	K22A36U2	**22C198**
1/0 AWG Str. to 750 kcmil Str.	K22A39U2	**22C199**
14 AWG Str. to 2 AWG Str.	KA2U	**22C172**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KA4C	**22C146**

Description	Mfr. Model	Item No.
14 AWG Str. to 6 AWG Str.	KA6U	**22C171**
14 AWG Str./Sol. to 8 AWG Sol./Str.	KA8C	**22C149**
4 AWG Str. to 1/0 AWG Str.	KA25	**22C147**
12 AWG Sol., 14 AWG Str. to 1/0 AWG Str./Sol.	KA25U	**22C174**
6 AWG Str. to 2/0 AWG Str.	KA26U	**22C175**
1 AWG Str. to 4/0 AWG Str.	KA28	**22C148**
6 AWG Str. to 250 kcmil Str.	KA29U	**22C173**
4 AWG Sol., 6 AWG Str. to 300 kcmil Str., 4/0 AWG Sol.	KA30U	**22C181**
6 AWG Str. to 350 kcmil Str.	KA31U	**22C176**
4/0 AWG Str. to 500 kcmil Str.	KA34	**22C150**
4 AWG Str. to 500 kcmil Str.	KA34U	**22C177**
2 AWG Str. to 600 kcmil Str.	KA36U	**22C178**
1 AWG Sol., 2 AWG Str. to 4/0 AWG Sol., 600 kcmil Str.	KA36U2N	**22C179**
300 kcmil Str. to 800 kcmil Str.	KA40U	**22C180**
300 kcmil Str. to 800 kcmil Str.	KA40U2N	**22C183**
500 kcmil Str. to 1000 kcmil Str.	KA44U	**22C182**
500 kcmil Str. to 1000 kcmil Str.	KA44U2N	**22C184**
4 AWG Str. to 1/0 AWG Str.	KA252TC38	**22C151**
14 AWG Str. to 250 kcmil Str.	KAUKIT1	**22C186**
6 AWG Str. to 250 kcmil Str.	KAUKIT2	**22C187**
6 AWG Str. to 800 kcmil Str.	KAUKIT3	**22C188**
2 AWG Str. to 600 kcmil Str.	KK3A36U4N	**22C208**
2 AWG Str. to 600 kcmil Str.	KK4A36U4N	**22C209**
6 AWG Str. to 350 kcmil Str.	KKA31U2N	**22C185**
14 AWG Str./Sol. to 10 AWG Str./Sol.	KLU25	**22C142**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KLU35	**22C137**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KLU35TP	**22C140**
8 AWG Str./Sol. to 2 AWG Str./Sol.	KLU70	**22C138**
2 AWG Str. to 1/0 AWG Str.	KLU125	**22C139**
4 AWG Str. to 3/0 AWG Str.	KLU175	**22C141**
2 AWG Str. to 4/0 AWG Str.	KLU225	**22C143**
1/0 AWG Str. to 350 kcmil Str.	KLU300	**22C144**
1/0 AWG Str. to 500 kcmil Str.	KLU400	**22C145**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4C	**22C129**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CTP	**22C128**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CUNPL	**22C132**
14 AWG Str./Sol. to 4 AWG Str./Sol.	KPA4CUP	**22C136**

Description	Mfr. Model	Item No.
14 AWG Str./Sol. to 8 AWG Str./Sol.	KPA8C	**22C130**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KPA8CTP	**22C127**
14 AWG Str./Sol. to 6 AWG Str./Sol.	KPA8CUP	**22C135**
4 AWG Str. to 1/0 AWG Str.	KPA25	**22C131**
1/0 AWG Str. to 4/0 AWG Str.	KPA28	**22C133**
4/0 AWG Str. to 500 kcmil Str.	KPA34	**22C134**
4 AWG Str. to 1 AWG Str.	Q2A1C2	**22C119**
1/0 AWG Str. to 2/0 AWG Str.	Q2A262N	**22C118**
3/0 AWG Str. to 4/0 AWG Str.	Q2A282N	**22C120**
250 kcmil Str. to 350 kcmil Str.	Q2A312N	**22C122**
400 kcmil Str. to 500 kcmil Str.	Q3A344N	**22C117**
4 AWG Str. to 1 AWG Str.	QA1CB	**22C089**
8 AWG Str. to 4 AWG Str.	QA4CB	**22C090**
14 AWG Str./Sol. to 8 AWG Str./Sol.	QA8CB	**22C097**
1/0 AWG Str. to 2/0 AWG Str.	QA26B	**22C092**
3/0 AWG Str. to 4/0 AWG Str.	QA28B	**22C091**
3/0 AWG Str. to 4/0 AWG Str.	QA282B	**22C102**
3/0 AWG Str. to 4/0 AWG Str.	QA282N	**22C095**
400 kcmil Str. to 500 kcmil Str.	QA342N	**22C094**
350 kcmil to 1000 kcmil Str.	QA442N	**22C093**
3/0 AWG Str. to 4/0 AWG Str.	QB28	**22C123**
4 AWG Str. to 1 AWG Str.	QDA1C	**22C109**
8 AWG Str. to 4 AWG Str.	QDA4C	**22C111**
14 AWG Str./Sol. to 8 AWG Str./Sol.	QDA8C	**22C116**
1/0 AWG Str. to 2/0 AWG Str.	QDA26	**22C113**
3/0 AWG Str. to 4/0 AWG Str.	QDA28	**22C110**
250 kcmil Str. to 350 kcmil Str.	QDA31	**22C112**
400 kcmil Str. to 500 kcmil Str.	QDA34	**22C115**
600 kcmil Str. to 800 kcmil Str.	QDA40	**22C114**
6 AWG (Run) Str., 6 AWG (Tap) to 2 AWG (Run) Str., 2 AWG (Tap) Str.	QPX2C2C	**22C158**
1 AWG (Run) Str., 6 AWG (Tap) to 2 AWG (Tap), 4/0 AWG (Run) Str.	QPX282C	**22C153**
1/0 AWG (Run) Str., 6 AWG (Tap) to 2 AWG (Tap), 4/0 AWG (Run) Str.	QPX282CY	**22C161**
1 AWG (Run) Str., 1 AWG (Tap) to 4/0 AWG (Run) Str., 4/0 AWG (Tap)	QPX2828	**22C152**
4 AWG Str. to 1 AWG Str.	QQA1C2	**22C106**
3/0 AWG Str. to 4/0 AWG Str.	QQA282N	**22C104**
400 kcmil Str. to 500 kcmil Str.	QQA342N	**22C105**
4 AWG Str./Sol. to 1 AWG Str./Sol.	QR1C	**22C124**

Grounding Connectors

BURNDY®

Description	Mfr. Model	Item No.
Cable Tray Grounding Connectors		
1/0 AWG to 6 AWG	GC2525CT	**22C005**
2/0 AWG to 2 AWG	GC2626CT	**22C004**
250 kcmil to 2/0	GC2929CT	**22C003**
Grounding Connectors		
2 AWG to 10 AWG, 2½" to 4" Pipe	C4	**22C024**
2 AWG to 10 AWG, ½" to 1" Pipe	C5	**22C023**
2 AWG to 10 AWG, ½" to 1" Pipe	C6	**22C033**
2 AWG to 10 AWG, 4½" to 6" Pipe	C8	**22C027**
2 AWG to 10 AWG, ½" to 1" Pipe	C11B	**22C026**
6 AWG, ½" to 1" Pipe	C11CSH1	**22C038**
4/0 AWG, ½" to 1" Pipe	C11CSH2	**22C037**
2 AWG to 10 AWG, ½" to 1" Pipe	C11D	**22C021**
4/0 AWG to 8 AWG, ½" to 1" Pipe, ⅜" to 1" Rod, #4 to #8 Rebar	C11HD4/0DB	**22C030**
2 AWG to 10 AWG, ⅜" to 1" Rod, ½" to 1" Pipe	C11K16D	**22C028**
6 AWG to 10 AWG, ½" to 1" Pipe	C11LH1	**22C035**
2/0 AWG to 10 AWG, ½" to 1" Pipe	C11LH2	**22C036**
3/0 AWG to 10 AWG, 1" Pipe	C11LH3	**22C031**
2 AWG to 10 AWG, ½" to 1" Pipe	C11N	**22C020**
2 AWG to 10 AWG, 1¼" to 2" Pipe	C22	**22C022**
2 AWG to 10 AWG, 1¼" to 2" Pipe	C22D	**22C025**
4/0 AWG to 8 AWG, 1¼" to 2" Pipe	C22HD4/0DB	**22C034**
6 AWG to 8 AWG, ½" to 1" Pipe	C61	**22C032**
2 AWG to 10 AWG, ½" to 1" Pipe	CZ11	**22C029**
2/0 AWG to 4 AWG, ½" Rod, ¼" Pipe	GAR1126	**22A981**
2/0 AWG to 4 AWG, ⅞" to 1" Rod, ½" to ¾" Pipe	GAR1426	**22A967**
250 kcmil to 2/0, ⅞" to 1" Rod, ½" to ¾" Pipe	GAR1429	**22A969**
2/0 AWG to 4 AWG, 1-1 /8" to 1¼" Rod, 1" Pipe	GAR1526	**22A968**
250 kcmil to 2/0, 1⅛" to 1¼" Rod, 1" Pipe	GAR1529	**22A971**
2/0 AWG to 4 AWG, 1⅜" to 1½" Rod, 1¼" Pipe	GAR1626	**22A974**
250 kcmil to 2/0, 1⅜" to 1½" Rod, 1¼" Pipe	GAR1629	**22A979**
2/0 AWG to 4 AWG, 1⅝" to 1⅞" Rod, 1½" Pipe	GAR1726	**22A966**
250 kcmil to 2/0, 1⅝" to 1⅞" Rod, 1½" Pipe	GAR1729	**22A972**
2/0 AWG to 4 AWG, 2" to 2⅜" Rod, 2" Pipe	GAR1826	**22A965**
250 kcmil to 2/0, 2" to 2⅜" Rod, 2" Pipe	GAR1829	**22A970**

Description	Mfr. Model	Item No.
2/0 AWG to 4 AWG, 2½" to 2⅞" Rod, 2½" Pipe	GAR1926	**22A975**
250 kcmil to 2/0, 2½" to 2⅞" Rod, 2½" Pipe	GAR1929	**22A973**
2/0 AWG to 4 AWG, 3" to 3½" Rod, 3" Pipe	GAR2026	**22A978**
250 kcmil to 2/0, 3" to 3½" Rod, 3" Pipe	GAR2029	**22A977**
2/0 AWG to 4 AWG, 4" to 4½", 4" Pipe	GAR2226	**22A980**
250 kcmil to 2/0, 4" to 4½", 4" Pipe	GAR2229	**22A982**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902	**22C042**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902BU	**22C017**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3902TC	**22C051**
4/0 AWG to 4 AWG, 1¼" to 2" Pipe	GAR3903	**22C039**
4/0 AWG to 4 AWG, 1¼" to 2" Pipe	GAR3903BU	**22C015**
4/0 AWG to 4 AWG, 1¼" to 2" Rod	GAR3903TC	**22C050**
4/0 AWG to 4 AWG, 2½" to 3½" Pipe	GAR3904	**22C041**
4/0 AWG to 4 AWG, 2½" to 3½" Pipe	GAR3904BU	**22C016**
4/0 AWG to 4 AWG, 2½ " to 3½" Rod	GAR3904TC	**22C049**
4/0 AWG to 4 AWG, 4" to 5" Pipe	GAR3905	**22C040**
4/0 AWG to 4 AWG, 4" to 5" Pipe	GAR3905BU	**22C018**
4/0 AWG to 4 AWG, 4" to 5" Rod	GAR3905TC	**22C047**
4/0 AWG to 4 AWG, 6" Pipe	GAR3906	**22C043**
4/0 AWG to 4 AWG, ½" to 1" Pipe	GAR3906BU	**22C019**
4/0 AWG to 4 AWG, 8" Pipe	GAR3907	**22C044**
2/0 AWG to 4 AWG, ⅝" to ¾" Rod, ⅜" Pipe	GAR6426	**22A963**
250 kcmil to 2/0, ⅝" to ¾" Rod, ⅜" Pipe	GAR6429	**22A964**
4 AWG to 8 AWG	GB4C	**22A990**
2/0 AWG to 4 AWG	GB26	**22A992**
250 kcmil to 2/0	GB29	**22A991**
500 kcmil to 300 kcmil	GB34	**22A993**
300 kcmil to 4 AWG	GBL30	**22C013**
2/0 AWG to 4 AWG	GBM26	**22A998**
250 kcmil to 2/0	GBM29	**22A997**
1/0 AWG to 14 AWG, ½" to 1" Pipe	GC15A	**22C059**
250 kcmil to 6 AWG, 1¼" to 2" Pipe	GC18A	**22C060**
250 kcmil to 6 AWG, 2½" to 4" Pipe	GC22A	**22C061**
2/0 AWG to 4 AWG	GC2626	**22A995**
250 kcmil to 2/0	GC2929	**22A994**

Description	Mfr. Model	Item No.
500 kcmil to 300 kcmil	GC3434	**22A996**
300 kcmil to 4 AWG	GCL30	**22C012**
2/0 AWG to 4 AWG	GCM26	**22C001**
1.5" to 1.25", 1⅜" to 1½" Rod, 1¼" Pipe	GG161	**22A988**
1.88" to 1.5", 1⅝" to 1⅞" Rod, 1½" Pipe	GG171	**22A986**
2.38" to 2", 2" to 2⅜" Rod, 2" Pipe	GG181	**22A987**
2/0 AWG to 4 AWG	GL2626	**22C002**
2 AWG to 10 AWG, ½" Rod	GRC12	**22A960**
1 AWG to 10 AWG, ⅝" Rod	GRC58	**22A958**
2 AWG to 10 AWG, ⅝" Rod	GRL5	**22A961**
2 AWG to 10 AWG, ¾" Rod	GRL6	**22A962**
Grounding Strip Kits		
2 AWG (Ground Wire), 6 AWG (Intersystem Wire)	BDT1	**22C081**
Hand Clamps		
—	GIE4CG3	**22C007**
—	GIE4CG4	**22C008**
Mechanical Connectors		
14 AWG Str./Sol. to 1/0 AWG Str./Sol.	BGBL1/0	**22C057**
14 AWG Str./Sol. to 4 AWG Str./Sol.	BGBL4	**22C056**
6 AWG Str./Sol. to 250 kcmil Str., 4/0 AWG Sol.	BGBL250	**22C058**
14 AWG Str./Sol. to 4 AWG Sol./Str.	CL501	**22C011**
14 AWG Str./Sol. to 4 AWG Sol./Str.	CL501TN	**22C010**
14 AWG Str./Sol. to 4 AWG Sol./Str.	GKA4C	**22A983**
10 AWG Str./Sol. to 4 AWG Sol. and Str.	KPB4CG1	**22A984**
Raised Floor Grounding Connectors		
2 AWG to 8 AWG	GRF4C3	**22C054**
Static Discharge Clamps		
6 to 2 AWG	GIE2CG3	**22C006**
Weld On Grounding Studs		
6 AWG	GSTUD14HY	**22C084**
4/0 AWG	GSTUD34HY	**22C082**
1/0 AWG	GSTUD916HY	**22C083**
Wire to Wire Grounding Connectors		
250 kcmil to 2/0	GX2929	**22A985**

Bussmann 1-Pole

Bussmann 2-Pole

Bussmann 1-Pole Finger-Safe

Mersen 1-Pole Finger-Safe

Mersen (With Optional Cover) 3-Pole

Square D 2-Pole

Power Distribution Blocks

- Aluminum block, except where noted
- Accept aluminum or copper wire
- 600V appliance and industrial rating

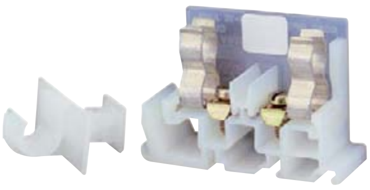
These efficient blocks splice cables or split primary power into a wide range of secondary circuits and provide a fixed tap-off point. Save splicing and taping time for contractor rework. UL Recognized and CSA Certified.

Max. Amps	Primary Connec. per Pole	Primary Wire Range (AWG)	Secondary Connec. per Pole	Secondary Wire Range (AWG)	L	D	Mfr. Model	1-POLE W	1-POLE Item No.	2-POLE W	2-POLE Item No.	3-POLE W	3-POLE Item No.
Bussmann													
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	2.88 in	1.75 in	16204	1.07 in	**3ZJA9**	1.88 in	**1EF56**	2.7 in	**1EF57**
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	2.8 in	2.12 in	16000	—	—	4.12 in	**3ZJC1**	5.37 in	**4XK12**
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	4	14 to 4 AWG CU, 8 to 4 AWG AL	2.88 in	1.75 in	16220	1.06 in	**4XK11**	1.88 in	**5A671**	2.7 in	**5A672**
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	4.0 in	3.32 in	16321	1.98 in	**3XH60**	3.6 in	**3XH61**	5.21 in	**3XH62**
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	2.8 in	2.12 in	16021	—	—	4.12 in	**3ZJC2**	5.37 in	**4XK14**
310 A	1	6 AWG to 250 MCM	1	6 AWG to 250 MCM	4.0 in	3.32 in	16303	1.98 in	**3ZJC3**	3.6 in	**3ZJC4**	5.21 in	**4XK16**
310 A	1	6 AWG to 350 MCM	6	12 to 4 AWG AL, 14 to 4 AWG CU	4.0 in	3.32 in	16323	1.98 in	**5A673**	3.6 in	**5A674**	5.21 in	**5A675**
310 A	1	6 AWG to 350 MCM	12	12 to 4 AWG AL, 14 to 4 AWG CU	4.0 in	3.32 in	16370	1.98 in	**3XH63**	3.6 in	**3XH64**	5.21 in	**3XH65**
350 A	2	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	6	14 to 4 AWG CU, 8 to 4 AWG AL	4.0 in	3.32 in	16325	1.98 in	**3ZJC6**	3.6 in	**3ZJC7**	5.21 in	**4XK13**
420 A	1	2 AWG to 600 MCM	12	12 to 4 AWG AL, 14 to 4 AWG CU	4.0 in	3.32 in	16375	—	—	—	—	5.21 in	**3XH68**
620 A	2	4 AWG to 350 MCM	2	4 AWG to 350 MCM	5.5 in	2.93 in	16500	3.1 in	**3ZJC8**	5.79 in	**3ZJC9**	8.48 in	**4XK20**
Optional Cover for Bussmann 163 Series							CPDB	—	**3XH80**	—	**3XH81**	—	**3XH82**
Enclosed, Finger-Safe													
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	3.37 in	2.15 in	PDBFS204	1.03 in	**3ZJA2**	—	—	—	—
175 A	1	14 to 2/0 AWG CU, 8 to 2/0 AWG AL	4	14 to 4 AWG CU, 8 to 4 AWG AL	3.37 in	2.15 in	PDBFS220	1.03 in	**3ZJA3**	—	—	—	—
310 A	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	4.67 in	2.87 in	PDBFS303	1.55 in	**3ZJA4**	—	—	—	—
380 A	1	6 AWG to 500 MCM	6	14 to 2 AWG	4.67 in	2.95 in	PDBFS330	1.55 in	**3ZJA5**	—	—	—	—
570 A	2	4 AWG to 300 MCM	12	12 to 4 AWG AL, 14 to 4 AWG CU	4.67 in	2.93 in	PDBFS377	1.88 in	**3ZJA6**	—	—	—	—
620 A	2	4 AWG to 350 MCM	2	4 AWG to 350 MCM	4.67 in	2.6 in	PDBFS500	2.38 in	**3ZJA7**	—	—	—	—
760 A	2	6 AWG to 500 MCM	2	6 AWG to 500 MCM	4.67 in	3.15 in	PDBFS504	2.56 in	**3ZJA8**	—	—	—	—
Mersen													
85 A	1	14 to 4 AWG	1	14 to 4 AWG	3.08 in	2.81 in	MPDB63101	1.05 in	**25CC04**	—	—	—	—
175 A	1	14 to 2/0 AWG	1	14 to 2/0 AWG	3.08 in	2.81 in	MPDB6315	1.05 in	**25CC08**	1.98 in	**25CC09**	2.91 in	**25CC10**
175 A	1	14 to 2/0 AWG	2	14 to 2 AWG	3.08 in	2.81 in	MPDB63193	—	—	—	—	2.91 in	**25CC11**
175 A	1	14 to 2/0 AWG	4	14 to 4 AWG	3.08 in	2.81 in	MPDB6313	1.05 in	**25CC05**	1.98 in	**25CC06**	2.91 in	**25CC07**
175 A	1	14 to 2/0 AWG	6	14 to 2 AWG	5.0 in	3.25 in	MPDB6756	1.85 in	**25CC25**	3.57 in	**25CC26**	5.28 in	**25CC27**
310 A	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	5.0 in	3.25 in	MPDB6700	1.85 in	**25CC16**	3.57 in	**25CC17**	5.28 in	**25CC18**
310 A	1	6 AWG to 350 MCM	6	14 to 2 AWG	5.0 in	3.25 in	MPDB6766	1.85 in	**25CC28**	3.57 in	**25CC29**	5.28 in	**25CC30**
310 A	1	6 AWG to 350 MCM	12	14 to 4 AWG	5.7 in	3.55 in	MPDB6915	2.73 in	**25CC41**	5.32 in	**25CC42**	7.89 in	**25CC43**
350 A	1	4 AWG to 500 MCM	12	14 to 4 AWG	5.7 in	3.55 in	MPDB6908	2.73 in	**25CC31**	5.32 in	**25CC32**	7.89 in	**25CC33**
350 A	2	14 to 2/0 AWG	6	14 to 2 AWG	5.0 in	3.25 in	MPDB6751	1.85 in	**25CC22**	3.57 in	**25CC23**	5.28 in	**25CC24**
380 A	1	4 AWG to 500 MCM	6	14 to 2 AWG	5.0 in	3.25 in	MPDB66463	—	—	—	—	5.28 in	**25CC15**
380 A	1	4 AWG to 500 MCM	18	14 to 10 AWG	5.0 in	3.25 in	MPDB6749	1.85 in	**25CC19**	3.57 in	**25CC20**	5.28 in	**25CC21**
400 A	1	⅜-16 x 1⅛ Stud	2	¼-20 x 1⅛ Stud	5.0 in	3.25 in	MPDB6623	—	—	—	—	5.28 in	**25CC14**
620 A	2	6 AWG to 350 MCM	2	6 AWG to 350 MCM	5.7 in	3.55 in	MPDB6912	2.73 in	**25CC38**	5.32 in	**25CC39**	7.89 in	**25CC40**
760 A	2	4 AWG to 500 MCM	2	4 AWG to 500 MCM	5.7 in	3.55 in	MPDB69093	—	—	—	—	7.89 in	**25CC34**
760 A	2	4 AWG to 500 MCM	12	14 to 4 AWG	5.7 in	3.55 in	MPDB6911	2.73 in	**25CC35**	5.32 in	**25CC36**	7.89 in	**25CC37**
760 A	3	600-2	3		5.7 in	3.55 in	MPDB69331	—	—	—	—	2.73 in	**25CC44**
Optional Touch Safe Cover for Mersen Mfr. No. MPDB62, MPDB63							MPDBC6263	—	**25CC01**	—	—	—	—
Optional Touch Safe Cover for Mersen Mfr. No. MPDB66, MPDB67							MPDBC6667	—	**25CC02**	—	—	—	—
Optional Touch Safe Cover for Mersen Mfr. No. MPDB68, MPDB69							MPDBC6869	—	**25CC03**	—	—	—	—
Enclosed, Finger-Safe													
175 A	1	14 to 2/0 AWG	1	14 to 2/0 AWG	2.86 in	1.95 in	FSPDB1A	1.0 in	**5LCP6**	—	—	—	—
175 A	1	14 to 2/0 AWG	4	14 to 2 AWG	3.45 in	2.21 in	FSPDB2A	1.12 in	**5LCP7**	—	—	—	—
310 A	2	14 to 2/0 AWG, 6 AWG to 350 MCM	8	14 to 8 AWG	3.97 in	2.53 in	FSPDB3A	1.85 in	**5LCP8**	—	—	—	—
335 A	1	6 AWG to 400 MCM	1	6 AWG to 400 MCM	5.73 in	3.15 in	FSPDB4A	1.54 in	**5LCP9**	—	—	—	—
840 A	2	4 AWG to 600 MCM	2	4 AWG to 600 MCM	5.71 in	3.15 in	FSPDB5A	2.84 in	**5LCR0**	—	—	—	—
Square D													
115 A	1	14 to 2 AWG	1	14 to 2 AWG	2.29 in	1.53 in	9080LBA_61101	—	—	—	—	2.1 in	**2DD63**
115 A	1	14 to 2 AWG	4	18 to 10 AWG	2.29 in	1.53 in	9080LBA_61104	0.83 in	**6NHG1**	1.46 in	**6PGF3**	2.1 in	**6PGF8**
150 A	1	6 to 2/0 AWG	6	10 to 4 AWG	5.37 in	2.06 in	9080LBA_62106	—	—	—	—	2.9 in	**6PGG0**
175 A	1	14 to 2/0 AWG	1	14 to 2/0 AWG	2.88 in	1.78 in	9080LBA_62101	1.13 in	**6NHG4**	1.94 in	**6PGF5**	2.75 in	**2DD65**
175 A	1	14 to 2/0 AWG	4	14 to 4 AWG	2.88 in	1.78 in	9080LBA_62104	1.13 in	**6NHG3**	1.94 in	**2DD51**	2.75 in	**2DD66**
310 A	1	6 AWG to 350 MCM	1	6 AWG to 350 MCM	13.4 in	2.61 in	9080LBA_63101	—	—	3.47 in	**2DD52**	—	—
335 A	1	6 AWG to 500 MCM	6	14 to 2 AWG	4.0 in	2.61 in	9080LBA_63106	1.94 in	**6PGF0**	3.47 in	**6PGF6**	5.0 in	**2DD70**
335 A	1	6 AWG to 400 MCM	8	14 to 2 AWG	4.75 in	3.16 in	9080LBA_64108	—	—	—	—	6.0 in	**2DD73**
350 A	2	14 to 2/0 AWG	6	14 to 4 AWG	4.0 in	2.61 in	9080LBC_63206	1.94 in	**6PGF1** *	3.47 in	**6PGF7** *	—	—
760 A	2	4 AWG to 500 MCM	2	4 AWG to 500 MCM	5.5 in	3.12 in	9080LBA_652021	—	—	5.85 in	**10C735**	8.54 in	**10C737**
760 A	2	4 AWG to 500 MCM	8	14 to 2/0 AWG	5.5 in	3.12 in	9080LBC_65208	3.17 in	**6PGF2** *	—	—	8.54 in	**6PGG2** *
760 A	2	4 AWG to 500 MCM	8	14 to 2/0 AWG	5.5 in	3.12 in	9080LBA_65208	—	—	5.85 in	**10C736**	—	—
760 A	2	4 AWG to 500 MCM	12	14 to 4 AWG	5.5 in	3.12 in	9080LBA_65212	3.17 in	**6NHG2**	5.85 in	**6PGF4**	8.54 in	**6PGF9**
Clear Cover For Use With Square D 9080LBA362 Series (except No. 6PGG0), Pkg. of 5							9080LB23	—	—	—	—	—	**6XTL1**
Clear Cover For Use With Square D 9080LBA363 Series, Pkg. of 5							9080LB33	—	—	—	—	—	**6XTL2**

** Copper block, accepts copper conductors only.*

2DC71

2DC60



5B375

SQUARE D by Schneider Electric

NEMA Terminal Blocks, Circuit Protectors, and Fuse Block

- Terminal block temp. range: -40° to 257°F (-40° to 125°C)
- Terminal and fuse block max. 600VAC

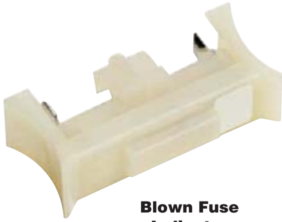
Box lug terminal blocks are suitable for use with stranded or solid copper wire. Hardware is recessed into the molding. Built-in wire strip gauge and marking area. Terminal and fuse blocks are rated UL 94 V-2 for flammability.

Mounting: All except 5B364 and 2DC71 have a snap-off arm on the terminal block.

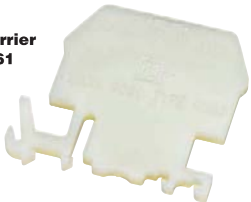
2DD09 includes banana test plug adapter.

Amps	Min. Wire Size	Max. Wire Size	Pieces per Ft.	End Barrier	2-Pole Jumpers	6-Pole Jumpers	Channel Size	W	H	D	Mfr. Model	Item No.
Terminal Block, Nylon, Gray Color												
30 A	22 AWG	10 AWG	51	5B373	5B368	5B367	35mm/GH	0.23 in	1.82 in	1.72 in	9080GME6	**3KL92**
Terminal Block, Nylon, Natural Color												
30 A	22 AWG	10 AWG	51	5B361	5B368	5B367	35mm/GH	0.23 in	1.82 in	1.72 in	9080GM6	**5B362**
40 A	22 AWG	10 AWG	34	5B363	5B366	5B365	21mm	0.35 in	1.39 in	1.4 in	9080GK6	**5B364**
40 A	22 AWG	12 AWG	32	5B359	2DD04	2DD05	35mm/GH	0.38 in	1.48 in	1.8 in	9080GA6	**5B380**
40 A	18 AWG	12 AWG	32	5B359	2DD04	2DD05	35mm/GH	0.38 in	1.48 in	1.8 in	9080GP6	**5B360**
60 A	22 AWG	8 AWG	34	5B361	5B366	5B365	35mm/GH	0.35 in	1.82 in	1.72 in	9080GR6	**5B358**
110 A	18 AWG	4 AWG	28	5B378	2DD01	2DD02	35mm/GH	0.43 in	2.13 in	1.99 in	9080GC6	**5B379**
180 A	12 AWG	1/0	17	5B376	2DD03	Mfr. No. 9080GH77	35mm/GH	0.7 in	2.71 in	2.12 in	9080GD6	**5B377**
255 A	6 AWG	250 Kcmil	10	5B373	—	—	35mm/GH	1.17 in	2.34 in	3.32 in	9080GE6	**2DC71**
Circuit Protectors												
1 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB10	**2DC60**
1 A	16 AWG	12 AWG	10	—	—	—	35mm DIN Rail	1.2 in	3.0 in	3.3 in	GB2CB06	**2DG38**
2 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB20	**2DC65**
4 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB40	**2DC68**
5 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB50	**2DC69**
10 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB100	**2DC61**
15 A	16 AWG	10 AWG	24	—	—	—	35mm/GH	0.5 in	3.11 in	3.15 in	9080GCB150	**2DC64**
Fuse Block, Nylon, Natural Color, Midget Fuse Type												
30	18 AWG	10 AWG	16	5B374	—	—	35mm/GH	0.75"	2.19"	2.19"	9080GF6	**5B375**

5B368



Blown Fuse Indicator
2DD06



End Barrier
5B361

SQUARE D by Schneider Electric

Terminal Block Accessories

For Use With	No. of Poles	Mfr. Model	Item No.
Terminal Block Jumpers			
Mfr. No. 9080GM6	2	9080GH700	**5B368**
9080GK6, 9080GR6, Mfr. No. 9080GR6T	2	9080GH72	**5B366**
Mfr. No. 9080GC6	2	9080GH74	**2DD01**
9080GA6, Mfr. No. 9080GP6	2	9080GH78	**2DD04**
Mfr. No. 9080GM6	6	9080GH710	**5B367**
Mfr. No. 9080GC6	6	9080GH75	**2DD02**
9080GA6, Mfr. No. 9080GP6	6	9080GH79	**2DD05**
Terminal Block Blown Fuse Indicators			
Mfr. No. 9080GF6	—	9080GLP3	**2DD06**
Mfr. No. 9080GF6	—	9080GLP6	**2DD07**
Terminal Block End Barriers			
9080GM6, 9080GR6, Mfr. No. 9080GR6T	—	9080GM6B	**5B361**
Mfr. No. 9080GK6	—	9080GK6B	**5B363**
Mfr. No. 9080GC6	—	9080GC6B	**5B378**
Mfr. No. 9080GD6	—	9080GD6B	**5B376**
9080GA6, Mfr. No. 9080GP6	—	9080GP6B	**5B359**
Mfr. No. 9080GF6	—	9080GF6B	**5B374**

Mounting Channel
5B371

End Clamp
5B373

SQUARE D by Schneider Electric

Mounting Channels

Description	L	W	H	Mounting Holes O.C. (in.)	Mounting Hole Width (in.)	Mfr. Model	Item No.
GH Mounting Channels							
Standard	10.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH110	**2DC80**
Standard	12.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH112	**2DC81**
Standard	36.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH136	**5B371**
Standard	48.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH148	**5B370**
Standard	72.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH172	**2DC86**
Snap-Off	36.0 in	0.81 in	0.22 in	0.63 in	0.27 in	9080GH236	**5B369**
End Clamps for GH Channels							
Screw-on End Clamp						9080GH10	**5B373**
Slip-on End Clamp						9080GH11	**5B372**

5B357

SQUARE D by Schneider Electric

35mm DIN Mounting Channels

Symmetrical, prepunched rails are in compliance with EN 50022 standard (DIN 46277-3). Priced each; shipped in pkg. of 10, sold individually in-store only.

5B357 and 2DF49 are galvanized steel.

Type	L	W	H	Mounting Holes O.C. (in.)	Mounting Hole Width (in.)	Mfr. Model	Item No.
IEC	39.0 in	1.38 in	0.29 in	0.98 in	0.71 in	9080MH339	**5B357**
IEC	78.0 in	1.38 in	0.29 in	0.98 in	0.71 in	9080MH379	**2DF49**
Terminal Block Screw-On End Clamp						9080MHA10	**3ULY3**

Terminal and Barrier Strips

- Operating range: -40° to 302°F
- Min. wire size (terminal strips): 22 AWG

Feature heavy-duty, corrosion-resistant screws. Protective cover prevents contact with live terminals.

Terminal Strip
6YH68

Barrier Strip
6YH99

Quick Connect, Double
6YH87

Jumper
6YH71

No. of Poles	15 AA, 300V AC ⅜ in Term. Spacing L	Item No.	20 AA, 300V AC 7/16 in Term. Spacing L	Item No.	30 AA, 600 9/16 in Term. Spacing L	Item No.	60 AA, 600 ⅝ in Term. Spacing L	Item No.
Terminal Strips								
2	1.38 in	**6ZEF2**	1.61 in	**6ZEG6**	2.13 in	**6YH63**	—	—
3	1.81 in	**6ZEF3**	2.09 in	**6ZEG7**	2.68 in	**6ZEJ0**	—	—
4	2.17 in	**6ZEF4**	2.52 in	**6ZEG8**	3.25 in	**6YH64**	—	—
5	2.56 in	**6ZEF5**	2.95 in	**6ZEG9**	3.86 in	**6ZEJ1**	—	—
6	2.91 in	**6ZEF6**	3.35 in	**6ZEH0**	4.37 in	**6YH65**	5.0 in	**6YH91**
7	—	—	—	—	5.0 in	**6ZEJ2**	—	—
8	3.7 in	**6ZEF8**	4.21 in	**6ZEH2**	5.5 in	**6YH66**	—	—
9	4.06 in	**6ZEF9**	4.65 in	**6ZEH3**	6.1 in	**6ZEJ3**	—	—
10	4.45 in	**6ZEG0**	5.12 in	**6ZEH4**	—	—	7.48 in	**6ZEJ8**
12	5.2 in	**6ZEG1**	5.98 in	**6ZEH5**	7.75 in	**6YH68**	8.75 in	**6YH93**
14	5.98 in	**6ZEG2**	6.89 in	**6ZEH6**	8.74 in	**6ZEJ4**	—	—
16	6.73 in	**6ZEG3**	7.8 in	**6ZEH7**	9.84 in	**6ZEJ5**	—	—
18	7.48 in	**6ZEG4**	8.66 in	**6ZEH8**	11.02 in	**6ZEJ6**	—	—
20	8.27 in	**6ZEG5**	—	—	12.2 in	**6ZEJ7**	—	—

Amps	Min. Wire Size	Max. Wire Size	L	W	H	Item No.
Barrier Strips, 300V AC, 12 Pole						
20 A	22 AWG	12 AWG	3.77 in	0.64 in	0.52 in	**6YH99**
35 A	22 AWG	10 AWG	5.53 in	0.93 in	0.74 in	**6YJ02**

No. of Poles	Pkg. Qty.	Fits 15A Item No.	Fits 30A Item No.	Fits 60A Item No.
Covers for Terminal Strips				
4	1	—	**6YH73**	—
6	1	—	—	**6YH95**
10	1	**10L533**	—	—
12	1	—	**6YH77**	**6YH97**
Accessories for 30A Terminal Strips				
Quick Connect, Double	10	—	**6YH87**	—
Terminal Block Jumper, Flat Slip-on	10	—	**6YH71**	—

IEC-Style Terminal Blocks

Schneider Electric

- DIN rail mountable

Feature fast and reliable connection. Resist vibration and shocks, with a wide choice of connection options. Provide the possibility of testing all terminal blocks. Help ensure the quality and operational availability of equipment, and optimizes installation set up and operation. UL Recognized and CSA Certified.

23NY08

23NY13

23NY12

23NY14

23NY17

23NY19

Amps	No. of Poles	No. of Connec.	Min. Wire Size	Max. Wire Size	End Barrier	2-Pole Jumpers	Features	H	W	D	Color	Mfr. Model	Item No.
Pass-Through													
20 A	1	2	26 AWG	12 AWG	23NY30	23NY19	—	1.87 in	0.21 in	1.88 in	Gray	NSYTRV22	**23NY07**
20 A	1	2	26 AWG	12 AWG	Mfr. No. NSYTRAP22BL	23NY19	—	1.87 in	0.21 in	1.88 in	Blue	NSYTRV22BL	**23NY08**
30 A	1	2	26 AWG	10 AWG	23NY30	23NY20	—	1.87 in	0.24 in	1.88 in	Gray	NSYTRV42	**23NY09**
30 A	1	2	26 AWG	10 AWG	Mfr. No. NSYTRAP22BL	23NY20	—	1.87 in	0.24 in	1.88 in	Blue	NSYTRV42BL	**23NY10**
30 A	1	4	26 AWG	10 AWG	No. Modelo NSYTRAP24	23NY20	—	1.87 in	0.24 in	2.58 in	Gray	NSYTRV44	**23NY13**
50 A	1	2	24 AWG	8 AWG	23NY30	23NY21	—	1.87 in	0.32 in	1.88 in	Gray	NSYTRV62	**23NY11**
Pass-Through Doubledeck													
28 A	2	4	26 AWG	12 AWG	No. Modelo NSYTRAPE24	23NY19	—	2.56 in	0.2 in	2.75 in	Gray	NSYTRV24D	**23NY12**
Grounding													
—	1	2	26 AWG	12 AWG	23NY30	23NY19	—	1.87 in	0.21 in	1.88 in	Yellow/Green	NSYTRV22PE	**23NY14**
—	1	2	26 AWG	10 AWG	23NY30	23NY20	—	1.87 in	0.24 in	1.88 in	Yellow/Green	NSYTRV42PE	**23NY15**
—	1	2	24 AWG	8 AWG	23NY30	23NY21	—	1.87 in	0.32 in	1.88 in	Yellow/Green	NSYTRV62PE	**23NY16**
Lever-Type Fuse, No Lamp													
6 A	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.22 in	0.32 in	2.85 in	Black	NSYTRV42SF5	**23NY17**
10 A	1	2	26 AWG	8 AWG	—	—	Accepts ¼ in X 1¼ in Glass or Ceramic Fuse	2.38 in	0.4 in	3.11 in	Black	NSYTRV42SF6	**23NY18**
110 to 250V AC/DC, LED, Lever-Type Fuse													
10 A	1	2	26 AWG	8 AWG	—	—	Accepts ¼ in X 1¼ in Glass or Ceramic Fuse	2.38 in	0.4 in	3.11 in	Black	NSYTRV42SF6LA	**49T418**
12 A	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.2 in	0.32 in	2.85 in	Black	NSYTRV42SF5LA	**49T416**
12 to 30V AC/DC, LED, Lever-Type Fuse													
10 A	1	2	26 AWG	8 AWG	—	—	Accepts ¼ in X 1¼ in Glass or Ceramic Fuse	2.38 in	0.4 in	3.11 in	Black	NSYTRV42SF6LD	**49T417**
12 A	1	2	26 AWG	10 AWG	—	—	Accepts 5 x 20mm Glass or Ceramic Fuse	2.2 in	0.32 in	2.85 in	Black	NSYTRV42SF5LD	**49T415**

Accessories	Mfr. Model	Item No.
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV24D, NSYTRV22, NSYTRV22PE	NSYTRAL22	**23NY19**
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV42, NSYTRV42BL, NSYTRV42PE	NSYTRAL42	**23NY20**
Terminal Block Jumper, 2 Pole, For Use With Mfr. No. NSYTRV62PE, NSYTRV62	NSYTRAL62	**23NY21**
Blank Marking Card, 42 Characters, For Use With Mfr. No. NSYTRV62	NSYTRABPV8	**23NY24**
Blank Marking Card, 60 Characters, For Use With Mfr. No. NSYTRV42, NSYTRV42BL	NSYTRABPV6	**23NY23**
Blank Marking Card, 72 Characters, For Use With Mfr. No. NSYTRV22, NSYTRV22BL	NSYTRABPV5	**23NY22**
Terminal Block End Barrier, Screw Terminal, For Use With Mfr. No. NSYTRV22, NSYTRV22BL, NSYTRV42, NSYTRV42BL, NSYTRV62	NSYTRAC22	**23NY25**
Terminal Block End Plate, Screw Terminal, For Use With Mfr. No. NSYTRV24D	NSYTRACE24	**23NY26**
Terminal Block End Plate, Screw Terminal, For Use With Mfr. No. NSYTRV44	NSYTRAC24	**23NY27**
End Clamp, Clip-On Mount, 35mm DIN Rail, For Use With All Terminal Blocks	NSYTRAAB35	**23NY29**
End Clamp, Screw Mount, 35mm DIN Rail, For Use With All Terminal Blocks	NSYTRAABV35	**23NY28**
Partition Plate, Screw Terminal, For Use With Mfr. No. NSYTRV22, NSYTRV22BL, NSYTRV42, NSYTRV42BL, NSYTRV62	NSYTRAP22	**23NY30**
Partial End Plate, Screw Terminal Double Level, For Use With Mfr. No. NSYTRV24D	NSYTRACEP24	**23NY31**

24Y176

46U998

443P47

2XHZ9

55EP56

421X35

13V194

Self-Retracting Cord Reels

Cord reels hold extension cords to provide access and storage while protecting them from tangling, kinking, and other damage. The cord can be extended to exactly the length needed to power equipment located at a distance from a power source. **Self-retracting cord reels** automatically wind extended cord back on the reel. **Stainless steel self-retracting cord reels** are resistant to rust and corrosion. **Reverse feed self-retracting cord reels** are ideal for mounting to mobile equipment.

Feeder Cord Ending	Feeder Cord Ending Configuration	Cord Ending	Retractable Cord Ending Configuration	Voltage	Max. Amps	Trade Designation	Reel Color	Cord Color	Brand	Item No.
Self-Retracting Cord Reels										
20 ft, 14 AWG										
Grounding Plug	Hospital Grade NEMA 5-15P	Quad Box Receptacle	Hospital Grade NEMA 5-15R	120V AC	13 A	SJTOOW	Gray	Gray	Lind Equipment	**24Y176**
25 ft, 12 AWG										
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Yellow	Black	KH Industries	**13V199**
25 ft, 12 AWG, Field Convertible Tension Method										
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Black	Black	KH Industries	**30PL35**
Grounding Plug, Inline GFCI	NEMA 5-20P	Duplex Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Yellow	Black	KH Industries	**13V197**
30 ft, 12 AWG										
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJO	Blue	Black	Coxreels	**46V002**
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	120V AC	20 A	SJO	Blue	Black	Coxreels	**46U999**
30 ft, 14 AWG, Includes Circuit Breaker, Mounting Hardware										
Grounding Plug	NEMA 5-15P	Triple Tap Connector	NEMA 5-15R	120V AC	13 A	SJT	Yellow	Yellow	LumaPro	**4XP67**
30 ft, 14 AWG, Includes Wall/Ceiling Mounting Bracket										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	125V AC	13 A	SJTW	Yellow	Yellow	LumaPro	**436G97**
Grounding Plug	NEMA 5-15P	Triple Tap Connector	NEMA 5-15R	125V AC	13 A	SJTW	Yellow	Yellow	LumaPro	**436G98**
30 ft, 16 AWG										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	13 A	SJO	Blue	Black	Coxreels	**46U998**
40 ft, 12 AWG										
Grounding Plug	NEMA 5-15P	Triple Tap Connector	NEMA 5-15R	125V AC	15 A	SJTOW	Yellow	Yellow	LumaPro	**443P47**
45 ft, 12 AWG										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	15 A	SJEOOW	Red	Black	Reelcraft	**8XFC6**
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	15 A	SJEOOW	White	White	Reelcraft	**32UK75**
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XHZ9**
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	120V AC	20 A	SJEOOW	White	White	Reelcraft	**32UK76**
Grounding Plug	NEMA 5-20P	Single Locking Connector	NEMA L5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJA1**
Grounding Plug	NEMA 5-15P	Duplex GFCI Box Receptacle	NEMA 5-15R	120V AC	15 A	SJEOOW	Red	Black	Reelcraft	**8X356**
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJA2**
Grounding Plug	NEMA 5-15P	Duplex GFCI Box Receptacle	NEMA L5-20R	125V AC	20 A	SJOW	White	White	Hubbell	**55EP56**
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-20R	125V AC	20 A	SJOW	White	White	Hubbell	**55EP57**
45 ft, 12 AWG, Includes Swing Bracket										
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJC8**
Grounding Plug	NEMA 5-20P	Single Locking Connector	NEMA L5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJC9**
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJD1**
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	15 A	SJEOOW	Red	Black	Reelcraft	**12T744**
Grounding Plug	NEMA 5-15P	Duplex GFCI Box Receptacle	NEMA 5-15R	120V AC	15 A	SJEOOW	Red	Black	Reelcraft	**12T745**
50 ft, 12 AWG										
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJO	Blue	Black	Coxreels	**46V015**
Grounding Plug	NEMA 5-15P	Duplex GFCI Box Receptacle	NEMA 5-15R	120V AC	15 A	SO	Red	Black	Reelcraft	**4LMG2**
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Yellow	Black	KH Industries	**13V201**
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	125V AC	20 A	SJOW	White	Black	Conductix-Wampfler	**421X35**
50 ft, 12 AWG, Field Convertible Tension Method										
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Black	Black	KH Industries	**30PL36**
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Black	Black	KH Industries	**30PL38**
Grounding Plug, Inline GFCI	NEMA 5-20P	Duplex Box Receptacle	NEMA 5-20R	120V AC	20 A	SJOW	Yellow	Black	KH Industries	**13V198**
50 ft, 14 AWG										
Grounding Plug	NEMA 5-15P	Triple Tap Connector	NEMA 5-15R	125V AC	13 A	SJTOW	Yellow	Yellow	LumaPro	**443P48**
Grounding Plug	NEMA 5-15P	Quad Box Receptacle	NEMA 5-15R	120V AC	15 A	SJOW	Yellow	Black	KH Industries	**13V194**
50 ft, 16 AWG										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	13 A	SJTOW	Red	Black	Reelcraft	**2XHZ8**
Grounding Plug	NEMA 5-15P	Triple Tap Connector	NEMA 5-15R	120V AC	13 A	SJEOOW	Red	Black	Reelcraft	**13A882**
50 ft, 16 AWG, Includes Swing Bracket										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	13 A	SJTOW	Red	Black	Reelcraft	**2XJC7**
75 ft, 12 AWG										
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJO	Blue	Black	Coxreels	**46V016**
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	120V AC	20 A	SEOOW	Red	Black	Reelcraft	**451N69**
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	125V AC	20 A	SJOW	Yellow	Black	Conductix-Wampfler	**421X37**
100 ft, 12 AWG										
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	120V AC	20 A	SJO	Blue	Black	Coxreels	**46V017**
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	120V AC	15 A	SEOOW	Red	Black	Reelcraft	**451N70**
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	120V AC	20 A	SEOOW	Red	Black	Reelcraft	**451N71**
Grounding Plug	NEMA 5-20P	Quad Box Receptacle	NEMA 5-20R	125V AC	20 A	SJOW	Yellow	Black	Conductix-Wampfler	**421X36**
Stainless Steel Self-Retracting Cord Reels										
45 ft, 12 AWG										
Grounding Plug	NEMA 5-15P	Single Connector	NEMA 5-15R	125V AC	15 A	SJEOOW	Silver	Black	Reelcraft	**55CX98**
Grounding Plug	NEMA 5-20P	Single Connector	NEMA 5-20R	125V AC	20 A	SJEOOW	Silver	Black	Reelcraft	**55CX99**
Grounding Plug	Hospital Grade NEMA 5-15P	Single Connector	Hospital Grade NEMA 5-15R	125V AC	15 A	SJEOOW	Silver	White	Reelcraft	**55CY01**
Grounding Plug	NEMA 5-15P	Duplex GFCI Box Receptacle	NEMA 5-15R	125V AC	15 A	SJEOOW	Silver	Black	Reelcraft	**55CY02**
Grounding Plug	NEMA 5-20P	Duplex GFCI Box Receptacle	NEMA 5-20R	125V AC	20 A	SJEOOW	Silver	Black	Reelcraft	**55CY03**
Grounding Plug	NEMA 5-15P	Triple Tap with GFCI	NEMA 5-15R	125V AC	15 A	SJEOOW	Silver	Black	Reelcraft	**55CY04**
Reverse Feed Self-Retracting Cord Reels										
35 ft, 16 AWG										
Grounding Connector	NEMA 5-15R	Single Plug	NEMA 5-15P	120V AC	13 A	SJTOW	Red	Black	Reelcraft	**32UK77**
45 ft, 12 AWG										
Grounding Connector	NEMA 5-20R	Grounding Plug	NEMA 5-20P	120V AC	20 A	SJEOOW	Red	Black	Reelcraft	**32UK80**
50 ft, 16 AWG										
Grounding Connector	NEMA 5-15R	Grounding Plug	NEMA 5-15P	120V AC	13 A	SJTOW	Red	Black	Reelcraft	**32UK78**

Self-Retracting Hardwired Cord Reels

These reels allow wires in a power cord to be attached for a permanent connection. Mount these reels out of the way in a central location, such as on a wall or ceiling, to keep a workspace organized and help reduce tripping hazards.

421X31

30PL33

12T747

436H02

46V004

Retractable Cord Length	Wire Size	No. of Cond.	Voltage	Max. Amps	Trade Designation	Reel Color	Cord Color	Brand	Item No.
Self-Retracting Hardwired Cord Reels									
Power Connection: Flying Lead, Retractable Cord Ending: Flying Lead									
30 ft	12 AWG	3	600V AC	20 A	SOOW	Yellow	Black	KH Industries	**13V205**
30 ft	10 AWG	3	600V AC	25 A	SOOW	Yellow	Black	KH Industries	**13V206**
30 ft	14 AWG	4	600V AC	12 A	SOOW	Yellow	Black	KH Industries	**13V214**
30 ft	12 AWG	4	600V AC	16 A	SOOW	Yellow	Black	KH Industries	**13V215**
30 ft	10 AWG	4	600V AC	20 A	SOOW	Yellow	Black	KH Industries	**13V216**
50 ft	16 AWG	4	600V AC	8 A	SOOW	Yellow	Black	Conductix-Wampfler	**421X31**
50 ft	14 AWG	4	600V AC	12 A	SOOW	Yellow	Black	Conductix-Wampfler	**421X32**
50 ft	16 AWG	3	600V AC	10 A	SOOW	Yellow	Black	KH Industries	**13V190**
50 ft	10 AWG	3	600V AC	25 A	SOOW	Yellow	Black	KH Industries	**13V209**
50 ft	12 AWG	4	600V AC	16 A	SOOW	Yellow	Black	KH Industries	**13V218**
50 ft	10 AWG	4	600V AC	20 A	SOOW	Yellow	Black	KH Industries	**13V219**
70 ft	14 AWG	3	600V AC	15 A	SOOW	Yellow	Black	KH Industries	**13V211**
70 ft	12 AWG	3	600V AC	20 A	SOOW	Yellow	Black	KH Industries	**13V212**
Power Connection: Flying Lead, Retractable Cord Ending: Flying Lead, Constant Tension									
50 ft	14 AWG	4	600V AC	12 A	SOOW	Yellow	Black	KH Industries	**11A231**
Power Connection: Flying Lead, Retractable Cord Ending: Flying Lead, Field Convertible Tension Method									
25 ft	12 AWG	3	120V AC	20 A	SJOW	Black	Black	KH Industries	**30PL33**
50 ft	14 AWG	3	600V AC	15 A	SOOW	Yellow	Black	KH Industries	**30PL43**
50 ft	12 AWG	3	600V AC	20 A	SOOW	Yellow	Black	KH Industries	**11A232**
50 ft	12 AWG	3	300V AC	20 A	SJOW	Black	Black	KH Industries	**30PL34**
50 ft	12 AWG	3	120V AC	20 A	SJOW	White	Black	KH Industries	**30PL40**
50 ft	12 AWG	3	120V AC	20 A	SJOW	White	White	KH Industries	**30PL42**
Power Connection: Junction Box, Retractable Cord Ending: Flying Lead									
50 ft	12 AWG	3	125/240V AC	20 A	SJEOOW	Red	Black	Reelcraft	**2XJC4**
50 ft	10 AWG	3	125/240V AC	30 A	SEOOW	Red	Black	Reelcraft	**2XJC5**
50 ft	12 AWG	4	600V AC	16 A	SEOOW	Red	Black	Reelcraft	**12T746**
50 ft	10 AWG	4	600V AC	20 A	SEOOW	Red	Black	Reelcraft	**12T747**
Power Connection: NEMA 5-15P Grounding Plug — Retractable Cord Ending: Flying Lead									
25 ft	16 AWG	3	125V AC	10 A	SJTOW	Yellow	Black	LumaPro	**436H02**
Power Connection: NEMA 5-20P Grounding Plug — Retractable Cord Ending: Flying Lead									
25 ft	12 AWG	3	125V AC	20 A	SJOW	Yellow	Black	Conductix-Wampfler	**421X33**
30 ft	12 AWG	3	120V AC	13 A	SJO	Blue	Black	Coxreels	**46V004**
50 ft	12 AWG	3	125V AC	20 A	SJOW	Yellow	Black	Conductix-Wampfler	**421X34**
100 ft	12 AWG	3	125V AC	20 A	SJOW	Yellow	Black	Conductix-Wampfler	**421X38**

Hand-Winding Cord Reels

Designed with a handle or knob, these reels are typically used with lightweight or shorter cords in retail or small business applications, where rewinding the cord manually doesn't take too much effort.

3A535

11K513

Retractable Cord Length	Feeder Cord Ending	Feeder Cord Ending Configuration	Retractable Cord Ending Configuration	Wire Size	Voltage	Max. Amps	Trade Designation	Reel Color	Cord Color	Brand	Item No.
Hand-Winding Cord Reels											
Dual Receptacle On Reel											
20 ft	GFCI Plug	NEMA 5-15R	NEMA 5-15P	14 AWG	120V AC	15 A	SJT	Yellow	Yellow	LumaPro	**1TGL4**
Quad Receptacle On Reel											
1 ft	Grounding Plug	NEMA 5-15R	NEMA 5-20P	12 AWG	125V AC	15 A	SJTW	Yellow	Yellow	LumaPro	**436H03**
25 ft	Grounding Plug	NEMA 5-15R	NEMA 5-15P	16 AWG	120V AC	10 A	SJT	Yellow	Yellow	LumaPro	**3A535**
40 ft	Grounding Plug	NEMA 5-15R	NEMA 5-15P	14 AWG	120V AC	13 A	SJTW	Yellow	Yellow	LumaPro	**2YKR4**
80 ft	Grounding Plug	NEMA 5-15R	NEMA 5-15P	14 AWG	120V AC	10 A	SJTW	Yellow	Yellow	LumaPro	**2YKR5**
80 ft	GFCI Plug	NEMA 5-15R	NEMA 5-15P	14 AWG	120V AC	10 A	SJTW	Yellow	Yellow	LumaPro	**2YKR7**
100 ft	Grounding Plug	NEMA 5-15R	NEMA 5-15P	12 AWG	120V AC	13 A	SO	Yellow	Yellow	LumaPro	**22M975**
Retractable Cord Ending: None											
No Cord	—	Junction Box	No Cord	No Cord	600V AC	45 A	No Cord	Blue	No Cord	Coxreels	**11K513**
No Cord	—	Junction Box	No Cord	No Cord	600V AC	30 A	No Cord	Red	No Cord	Reelcraft	**2XJE4**

Motor-Driven Cord Reels

These cord reels have an electric motor that automatically extends and retracts long extension cords in environments such as tunnels and mines, which can require a higher force than is provided by hand-winding or self-retracting cord reels. They usually operate at a slow speed and provide a steady tension on the cord, which helps prevent overstretching and damage.

Feeder Cord Ending Configuration	Retractable Cord Ending Configuration	Reel Capacity	Voltage	Max. Amps	Reel Color	Brand	Item No.
Motor-Driven Cord Reels							
No Cord, No Cord							
Junction Box	No Cord	200 ft of 10/3	600V AC	30 A	Red	Reelcraft	**2XJE6**

13V224

Hazardous Location Cord Reels

These cord reels are used in locations where exposure to flammable gases, combustible dusts, or ignitable fibers is common, such as mining and chemical-manufacturing settings. They are typically mounted on a wall or ceiling near the place of intended use.

Feeder Cord Ending Configuration	Retractable Cord Ending Configuration	Voltage	Max. Amps	Trade Designation	Reel Color	Cord Color	Item No.
Hazardous Location Cord Reels							
20 ft, 14 AWG							
Flying Lead	Flying Lead	600V AC	15 A	SOOW	Gray	Black	**13V223**
Flying Lead	Flying Lead	600V AC	12 A	SOOW	Gray	Black	**13V225**
30 ft, 12 AWG							
Flying Lead	Flying Lead	600V AC	20 A	SOOW	Gray	Black	**13V227**
50 ft, 12 AWG							
Flying Lead	Flying Lead	600V AC	20 A	SOOW	Gray	Black	**13V228**
50 ft, 14 AWG							
Flying Lead	Flying Lead	600V AC	15 A	SOOW	Gray	Black	**13V224**
Flying Lead	Flying Lead	600V AC	12 A	SOOW	Gray	Black	**13V226**
50 ft, 16 AWG Fluorescent Lamp							
Flying Lead	No Receptacle	125V AC	No Receptacle	SO	Gray	Black	**13V230**

436G99

2XJA3

Lighted Cord Reels

- 120V AC

These reels hold power cords with attached lamps to provide portable lighting in areas without a nearby power source. The reels can be mounted on walls or ceilings, and the lights have hanging hooks for hands-free use.

LED lamps last longer and use significantly less energy than fluorescent or incandescent lamps. They also produce very little heat and can withstand vibration and rough handling. **Incandescent lamps** are more economical than LED lamps, but they consume more power and have a shorter lifespan. Lighted cord reels with receptacles can receive an electrical plug.

Retractable Cord Length	Wire Size	Lamp Watts	Feeder Cord Ending Configuration	Retractable Cord Ending Configuration	Max. Amps	Reel Color	Cord Color	Brand	Item No.
LED Lamp									
25 ft	18 AWG	2.4 W	NEMA 1-15P	No Receptacle	No Receptacle	Yellow	Black	LumaPro	**2YKP6**
30 ft	18 AWG	13 W	NEMA 5-15P	No Receptacle	No Receptacle	Yellow	Black	LumaPro	**436H01**
40 ft	18 AWG	3.2 W	NEMA 5-15P	No Receptacle	No Receptacle	Yellow	Black	LumaPro	**2YKP9**
50 ft	18 AWG	13 W	NEMA 5-15P	No Receptacle	No Receptacle	Yellow	Black	LumaPro	**436G99**
LED Lamp with Receptacle									
25 ft	16 AWG	5.0 W	NEMA 5-15P	NEMA 5-15R	10 A	Yellow	Black	LumaPro	**2YKR1**
40 ft	16 AWG	8.5 W	NEMA 5-15P	NEMA 5-15R	9.5 A	Black	Black	LumaPro	**443P49**
50 ft	14 AWG	8.5 W	NEMA 5-15P	NEMA 5-15R	12.5 A	Black	Black	LumaPro	**443P50**
Incandescent Lamp with Receptacle									
20 ft	18 AWG	75 W	NEMA 5-15P	NEMA 5-15R	7 A	Yellow	Yellow	LumaPro	**1A135**
25 ft	16 AWG	75 W	NEMA 5-15P	NEMA 5-15R	10 A	Yellow	Yellow	LumaPro	**1W943**
35 ft	16 AWG	75 W	NEMA 5-15P	NEMA 5-15R	13 A	Red	Black	Reelcraft	**2XJA3**
50 ft	16 AWG	75 W	NEMA 5-15P	NEMA 5-15R	13 A	Red	Black	Reelcraft	**2XJA4**
50 ft	14 AWG	100 W	NEMA 5-15P	NEMA 5-15R	13 A	Black	Yellow	LumaPro	**2YKT2**
50 ft	18 AWG	75 W	NEMA 5-15P	NEMA 5-15R	7 A	Yellow	Yellow	LumaPro	**6X756**

3KVE7

39AM75

2XJE1

3AEP8

Cord Storage Reels

These reels are typically used to hold power cords that are accessed infrequently. They prevent cords from tangling and kinking and protect them from damage. These reels are for storage only and should not be used with electrical cords connected to a power source.

Reel Capacity	Reel Color	Brand	Item No.
Cord Storage Reels			
Plastic			
150 ft of Cord	Black	Southwire	**3KVE7**
Polypropylene			
100 ft of 14/3 Cord, 100 ft of 16/3, 50 ft of 12/3 Cord	Orange	Bayco	**39AM75**
150 ft of Cord/Rope/Air Hose	Gray	LumaPro	**6YF66**
Holds Up to 100 ft	Black	LumaPro	**6YF65**
Holds Up to 100 ft 16/3 Cord	Black	Woods	**3KVE9**
Steel			
100 ft of 12/3 Cord, 125 ft of 14/3 Cord, 200 ft of 16/3 Cord	Yellow	LumaPro	**11A562**
140 ft of 10/3 Cord, 175 ft of 12/3 Cord, 425 ft of 16/3 Cord	Red	Reelcraft	**2XJE1**
150 ft of 12/3 Cord, 300 ft of 16/3 Cord, 40 ft of 8/3 Cord, 75 ft 10/3 Cord	Blue	Coxreels	**11K515**
280 ft of 10/3 Cord, 350 ft of 12/3 Cord, 850 ft of 16/3 Cord	Red	Reelcraft	**2XJE2**
Thermoplastic			
100 ft of 10/3 Cord, 150 ft of 12/3 Cord	Yellow	Cordpro	**3AEP8**
100 ft of 16/3 Cord, 40 ft of 10/3 Cord, 50 ft of 12/3 Cord, 80 ft of 14/3 Cord	Yellow	Cordpro	**3AEP7**

Outdoor Extension Cords

These cords have a durable jacket that resists abrasion and harsh weather conditions, making them more robust for outdoor applications than indoor extension cords.

Trade Designations

Cord and Cable Abbreviation Information

S	Standard; rated at 600 VAC	W, W-A	Weather-Approved, Indoor/Outdoor
J	Junior; rated at 300 VAC	P	Parallel
T	Thermoplastic/Vinyl	-2	Heavier Construction than -1
E	Elastomer	-3	Heavier Construction than -2
O	Oil-Resistant	SRD	Range or Dryer Cable
OO	Oil-Resistant Outer Jacket and Insulation	HPN	Heater Cord

55CW66

55CW62

52NY24

1FD65

4GAC7

4GAD5

Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Cord Length 10 ft Item No.	25 ft Item No.	50 ft Item No.	100 ft Item No.
1 Outlet Single Connector										
16 AWG	SJTW	NEMA 5-15P	Orange	-40° to 167°F	Yes	Power First	**3EA97**	**3EA98**	**1FD53**	**1FD54**
16 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	**55CW88**	**55CW89**	—
16 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	**4GAA5**	**4GAA6**	—
14 AWG	SJTW	NEMA 5-15P	Black	-40° to 167°F	Yes	Power First	—	**21RJ54**	**21RJ52**	—
14 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	**55CW78**	**55CW82**	**55CW76**
14 AWG	SJTW	NEMA 5-15P	Red	-40° to 140°F	Yes	Southwire	—	**55CW80**	**55CW84**	**55CW77**
14 AWG	STW	NEMA 5-15P	Orange	-40° to 140°F	No	Southwire	—	**55CW86**	**55CW87**	**55CW85**
14 AWG	SJTW	NEMA 5-15P	Orange/Black	-40° to 167°F	Yes	Power First	**1XUP4**	**3EA99**	**1FD55**	**1FD56**
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	**4GAA7**	**4GAA8**	**4GAA9**
14 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	—	**52NY27**	—
12 AWG	SJEOW	NEMA 5-15P	Blue/White	-94° to 221°F	Yes	Southwire	—	**55CW37**	**55CW38**	**55CW36**
12 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	**55CW54**	**55CW57**	**55CW40**
12 AWG	SJTW	NEMA 5-15P	Blue/Red	-40° to 140°F	Yes	Southwire	—	—	**55CW60**	**55CW41**
12 AWG	SJTW	NEMA 5-15P	Green/Yellow	-40° to 140°F	Yes	Southwire	—	—	**55CW61**	**55CW43**
12 AWG	SJTW	NEMA 5-15P	Orange/Blue	-40° to 140°F	Yes	Southwire	—	—	**55CW64**	**55CW44**
12 AWG	SJTW	NEMA 5-15P	Pink/Lime Green	-40° to 140°F	Yes	Southwire	—	—	**55CW66**	**55CW45**
12 AWG	SJTW	NEMA 5-15P	Blue	-40° to 140°F	Yes	Southwire	—	**55CW55**	**55CW59**	**55CW46**
12 AWG	SJTW	NEMA 5-15P	Green	-40° to 140°F	Yes	Southwire	—	**55CW56**	**55CW63**	**55CW47**
12 AWG	SJTW	NEMA 5-15P	Pink	-40° to 140°F	Yes	Southwire	—	—	—	**55CW48**
12 AWG	SJTW	NEMA 5-15P	Red/White	-40° to 140°F	Yes	Southwire	—	—	**55CW67**	**55CW49**
12 AWG	SJTW	NEMA 5-15P	Yellow/Purple	-40° to 140°F	Yes	Southwire	—	—	**55CW68**	**55CW50**
12 AWG	SJTW	NEMA 5-15P	Blue/Red/White	-40° to 140°F	Yes	Southwire	—	**55CW53**	**55CW69**	**55CW51**
12 AWG	SJTW	NEMA 5-15P	Lime Green/Red	-40° to 140°F	Yes	Southwire	—	—	**55CW62**	—
12 AWG	STW	NEMA 5-15P	Orange	-40° to 140°F	No	Southwire	—	**55CW71**	**55CW72**	**55CW70**
12 AWG	SJTW	NEMA 5-15P	Black	-40° to 167°F	Yes	Power First	—	—	**21RJ55**	**21RJ53**
12 AWG	SJTW	NEMA 5-15P	Yellow/Black	-40° to 167°F	Yes	Power First	**1XUP5**	**1XUP6**	**3EB10**	**1FD57**
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	**4GAC1**	**4GAC2**
12 AWG	SJEOOW	NEMA 5-15P	Yellow	-58° to 140°F	Yes	Southwire	—	—	**444C65**	**444C66**
12 AWG	SJTW	NEMA 5-15P	Black	-40° to 221°F	No	—	—	—	**5XFP4**	**5XFP5**
12 AWG	SJTW	NEMA 5-15P	Yellow	-58° to 167°F	Yes	Power First	—	**52NY26**	—	—
10 AWG	SJTW	NEMA 5-15P	Blue/Red	-40° to 140°F	Yes	Southwire	—	—	**55CW34**	**55CW32**
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	**1XUP7**	**1XUP8**	**1XUP9**
10 AWG	STW	NEMA L5-30P	White	-4° to 140°F	Yes	Hubbell	—	—	**1UKB1**	—
10 AWG	SJTW	NEMA 5-15P	Lime Green/Red	-40° to 140°F	Yes	Southwire	—	—	**55CW35**	**55CW33**
10 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	**4GAC3**	**4GAC4**
10 AWG	SJTOW	NEMA 5-20P	Yellow	-58° to 194°F	Yes	Power First	—	—	**4FZZ7**	**4FZZ8**
10 AWG	SJTOW	NEMA L5-20P	Yellow	-58° to 194°F	Yes	Power First	—	—	**4GAA2**	**4GAA4**
1 Outlet Slide Compression Lock										
16 AWG	SJTW	NEMA 5-15P	Orange	-40° to 167°F	No	Power First	**52NY11**	**52NY15**	**52NY14**	**52NY12**
14 AWG	SJTW	NEMA 5-15P	Orange/Black	-40° to 167°F	No	Power First	**52NY13**	**52NY20**	**52NY18**	**52NY17**
12 AWG	SJTW	NEMA 5-15P	Yellow/Black	-40° to 167°F	No	Power First	**52NY22**	**52NY24**	**52NY25**	**52NY23**
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	No	Power First	—	**52NY19**	**52NY16**	**52NY21**
3 Outlet T-Shape										
14 AWG	SJTW	NEMA 5-15P	Orange/Black	-40° to 167°F	Yes	Power First	**1FD64**	**1FD65**	**1FD66**	—
14 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	**55CW79**	**55CW83**	—
12 AWG	SJTW	NEMA 5-15P	Blue	-58° to 140°F	Yes	Southwire	—	—	**55CW58**	—
12 AWG	SJTW	NEMA 5-15P	Yellow/Black	-40° to 167°F	Yes	Power First	**1FD67**	**1XUR1**	**1XUR2**	**1XUR4**
10 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	—	—	**1XUR3**	**1XUR5**
3 Outlet W-Shape										
14 AWG	SJTW	NEMA 5-15P	Yellow	-40° to 221°F	Yes	—	—	**20FR82**	**20FR83**	—
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4GAC7**	**4GAC8**	**4GAC9**	**4GAD1**
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	**4GAD2**	**4GAC5**	**4GAC6**
12 AWG	SJTW	NEMA 5-15P	Yellow	-58° to 167°F	Yes	—	—	—	—	**9AD35**
10 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	—	**4GAD9**	**4GAE1**
10 AWG	SJTOW	NEMA 5-20P	Yellow	-58° to 194°F	Yes	Power First	—	**4GAD3**	—	—
6 Outlet Block										
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	—	**4GAD6**	**4GAD7**	**4GAD8**

Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Item No.
1 Outlet Slide Compression Lock							
45 ft Cord Length							
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4FZY6**
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4FZY8**
90 ft Cord Length							
14 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4FZY7**
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4FZY9**
3 Outlet Block							
15 ft Cord Length							
14 AWG	SJOW	NEMA 5-15P	Black	-58° to 221°F	Yes	Southwire	**55CW73**
3 Outlet T-Shape							
2 ft Cord Length							
12 AWG	STW	NEMA 5-15P	Yellow	-40° to 167°F	Yes	Power First	**4DB72**
6 Outlet Block							
6 ft Cord Length							
12 AWG	SJTOW	NEMA 5-15P	Yellow	-58° to 194°F	Yes	Power First	**4GAD5**

1FD75

52NY10

1FD74

Indoor Extension Cords

These cords are often used in shorter lengths (less than 25 ft.) than outdoor extension cords to accommodate indoor applications. They have a lightweight jacket that is not suitable for wide temperature ranges and therefore should not be used outdoors.

Cord Length	Wire Size	Trade Designation	Plug Configuration	Jacket Color	Temp. Rating	Power Indicator	Brand	Item No.
1 OutletBlock Cord Ending								
8 ft	16 AWG	HPN	NEMA 1-15P	Black	-4° to 194°F	No	Power First	**1FD75**
1 OutletSingle Connector Cord Ending								
1 ft	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	—	**5XFP6**
2 ft	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	—	**5XFP7**
3 ft	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	—	**5XFP8**
6 ft	16 AWG	SJT	NEMA 5-15P	Black	-4° to 221°F	No	—	**5XFP9**
6 ft	14 AWG	SPT-3	NEMA 5-15P	Beige	0° to 140°F	No	Power First	**3AY45**
9 ft	14 AWG	SPT-3	NEMA 5-15P	Beige	32° to 140°F	No	Power First	**3AY46**
9 ft	12 AWG	SPT-3	NEMA 6-20P	Beige	32° to 167°F	No	Power First	**3AY47**
10 ft	16 AWG	SJT	NEMA 5-15P	Black	-4° to 167°F	No	—	**5XFR0**
10 ft	16 AWG	SJT	NEMA 5-15P	Orange	0° to 167°F	No	Power First	**3AY48**
12 ft	14 AWG	SPT-3	NEMA 5-15P	Beige	32° to 167°F	No	Power First	**3AY49**
15 ft	16 AWG	SJT	NEMA 5-15P	Black	-40° to 167°F	No	—	**5XFR1**
25 ft	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD58**
50 ft	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD59**
50 ft	14 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD61**
50 ft	12 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD62**
100 ft	16 AWG	SPT-2	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD60**
100 ft	12 AWG	SPT-3	NEMA 5-15P	Yellow	32° to 167°F	No	Power First	**1FD63**
1 OutletSlide Compression Lock Cord Ending								
2 ft	14 AWG	SJTW	NEMA 5-15P	Orange/Black	-4° to 221°F	No	Power First	**52NY10**
3 OutletBlock Cord Ending								
3 ft	14 AWG	SPT-3	NEMA 5-15P	Orange	32° to 167°F	No	Power First	**1FD74**
9 ft	16 AWG	SPT-2	NEMA 1-15P	Brown	32° to 140°F	No	Power First	**1FD68**
9 ft	16 AWG	SPT-2	NEMA 1-15P	White	32° to 140°F	No	Power First	**1FD69**
9 ft	16 AWG	SJT	NEMA 5-15P	Beige	0° to 167°F	No	Power First	**1FD72**
12 ft	18 AWG	SPT-2	NEMA 1-15P	Green	-4° to 221°F	No	Power First	**52NY09**
15 ft	16 AWG	SPT-2	NEMA 1-15P	White	32° to 140°F	No	Power First	**1FD70**
15 ft	16 AWG	SPT-2	NEMA 1-15P	Brown	32° to 140°F	No	Power First	**1FD71**
25 ft	16 AWG	SJT	NEMA 5-15P	Orange	0° to 167°F	No	Power First	**1FD73**
9 OutletBlock Cord Ending								
9 ft	18 AWG	SPT-2	NEMA 1-15P	Green	-4° to 221°F	No	Power First	**52NY08**

1FD77

55CW93

4FZZ1

4GAA3

Extension Cord Adapters

These adapters create compatibility between a device's power cord plug and a power outlet receptacle when they are of different types. They have a plug at one end that connects to the power source and a receptacle at the other end that the device plugs into. They are typically used to supply power to devices in industrial applications, such as power tools and machinery, where a variety of plug types and outlets are common. The current should be limited to the adapter's lowest rating to help prevent overheating.

Cord Length	Wire Size	Cord Type	Voltage	Connector Type	Plug Configuration	Color	Temp. Rating	Power Indicator	Brand	Item No.
1 Outlet										
9 in	12 AWG	—	125V AC	NEMA L5-20R	NEMA 5-15P	Black	-40° to 140°F	No	Southwire	**55CW96**
10 in	12 AWG	STW	120V AC	NEMA L5-20R	NEMA 5-15P	Orange	32° to 167°F	No	Power First	**1FD76**
10 in	12 AWG	STW	120V AC	NEMA 5-15R	NEMA L5-20P	Orange	32° to 167°F	No	Power First	**1FD77**
12 in	12 AWG	—	125V AC	NEMA TT-30R	NEMA 14-50P	Black	-40° to 140°F	No	Southwire	**55CW93**
17 in	12 AWG	—	125V AC	NEMA 5-15R	NEMA L5-20P	Black	-40° to 140°F	No	Southwire	**55CW95**
17 in	10 AWG	—	125V AC	NEMA TT-30R	NEMA L14-30P	Black	-40° to 140°F	No	Southwire	**55CW94**
2 Outlet Y Adapter										
3 ft	12 AWG	SJTOW	120/240V AC	NEMA L5-20R	NEMA L14-20P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ3**
3 ft	12 AWG	SJTOW	120/240V AC	NEMA 5-20R	NEMA L14-20P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ4**
3 ft	10 AWG	SJTOW	120V AC	NEMA L5-20R	NEMA L5-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ1**
3 ft	10 AWG	SJTOW	120V AC	NEMA 5-20R	NEMA L5-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ2**
3 ft	10 AWG	SJTOW	120/240V AC	NEMA L5-20R	NEMA L14-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ5**
3 ft	10 AWG	SJTOW	120/240V AC	NEMA 5-20R	NEMA L14-30P	Yellow	-58° to 194°F	Yes	Power First	**4FZZ6**
3 Outlet										
2 ft	12 AWG	—	120V AC	NEMA 5-15R	NEMA L5-20P	Yellow	-40° to 140°F	No	—	**3KVJ6**
3 Outlet 3-Outlet										
2 ft	12 AWG	STOW	125V AC	W-Shape	NEMA L5-20P		-58° to 194°F	Yes	Power First	**4GAA3**

52NY45

52NY46

53TZ17

6YF65

5YNJ9

Extension Cord Accessories

These accessories adapt different plug configurations, test electric devices, or keep cords organized.

Plug Configuration	NEMA Connector	No. of Outlets	Brand	Item No.
Plug Adapter				
5-15P	5-15R	1	Power First	**52NY45**
5-15P	5-15R	3	Power First	**52NY46**
5-15P	5-15R	3	GE	**53TZ17**
Hand Wind Cord Reel				
Holds Up to 100 ft, Black Polypropylene			LumaPro	**6YF65**
Cable Wraptor				
1 in Max. Bundle Dia., 25 lb Max. Load Capacity			Gardner Bender	**25D168**
2 in Max. Bundle Dia., 50 lb Max. Load Capacity			Gardner Bender	**5NPN0**
3 in Max. Bundle Dia., 100 lb Max. Load Capacity			Gardner Bender	**5NPN1**
4 in Max. Bundle Dia., 150 lb Max. Load Capacity			Gardner Bender	**5YNJ9**

Flexiduct Extension Cords

These extension cords consist of flexible electrical cable with an integrated lay-flat cord. They are typically used in high-traffic areas to help minimize tripping hazards and reduce wear to the cord. They have a plug at one end that connects to the power source and a metal outlet box with two receptacles at the other end that devices plug into. They are ideal for use in office and commercial settings where there is heavy foot traffic, such as lobbies, hotels and conventions, and trade shows.

LINCOLN PLASTICS

Cord Length	BLACK Item No.	BEIGE Item No.	YELLOW Item No.
6 ft., 4 ft. Covered	3KUV3	—	—
8 ft., 6 ft. Covered	3KUV9	3KUV7	3KUW2
10 ft., 8 ft. Covered	3KUW6	3KUW4	3KUW8
12 ft., 10 ft. Covered	48FP90	48FP91	48FP92
14 ft., 12 ft. Covered	48FP93	48FP94	48FP95

1FD82

1TNB9

POWER FIRST

Indoor Power Supply Cords

These cords are portable lengths of electrical cable used to connect devices and appliances to a power source in indoor applications. They are typically used on equipment that doesn't come with a power cord, such as dryers, ranges, and computer monitors. They have a molded plug at one end that connects to an electrical outlet and a socket or bare wire at the other end that is attached or wired to the device. The power cord should match the amperage rating of the device and plug configuration of the outlet.

Cord Length	Wire Size	Connec. Type	Max. Amps	Trade Designation	Jacket Material	Brand	Item No.
Power Cord							
NEMA 1-15P, 2 Conductors							
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD84**
NEMA 5-15P, 3 Conductors							
3 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD80**
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD82**
8 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	—	**1FD81**
8 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1FD87**
8 ft	16 AWG	Bare Leads	13.0 A	SJO	Rubber	—	**1FD86**
8 ft	14 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1FD92**
8 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	—	**1FD91**
8 ft	12 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TMZ9**
8 ft	12 AWG	Bare Leads	15.0 A	SJO	Rubber	Power First	**1TNA1**
8 ft	12 AWG	Bare Leads	15.0 A	ST	PVC	Power First	**1FD93**
12 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1FD83**
12 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	—	**1TNA2**
12 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1FD89**
12 ft	16 AWG	Bare Leads	13.0 A	SJO	Rubber	—	**1FD88**
12 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	—	**1TNA4**
12 ft	12 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TNA5**
Right Angle NEMA 6-15P, 3 Conductors							
8 ft	14 AWG	Bare Leads	15.0 A	SJO	Rubber	Power First	**3AY39**
Coiled Power Cord							
NEMA 5-15P, 3 Conductors							
20 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**1TNB9**
20 ft	14 AWG	Bare Leads	15.0 A	SJT	PVC	Power First	**1TNC1**
Right Angle NEMA 1-15P, 2 Conductors							
10 ft	16 AWG	Bare Leads	13.0 A	SJT	PVC	Power First	**3AY41**
Power Cord Strain/Relief							
NEMA 5-15P, 3 Conductors							
6 ft	16 AWG	Blunt Cut	13.0 A	SJO	Rubber	—	**1TNC2**
6 ft	14 AWG	Blunt Cut	15.0 A	SJO	Rubber	—	**1TNC4**
Power Cord 1-Speed Switch							
NEMA 5-15P, 3 Conductors							
8 ft	18 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1VEP4**
8 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNA7**
8 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNA8**
8 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNA9**
8 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB1**
8 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB2**
10 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNC5**
10 ft	16 AWG	Bare Leads	10.0 A	SJ	Rubber	Power First	**1KEG6**
10 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNC6**
10 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNC7**
10 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNC8**
12 ft	18 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB3**
12 ft	16 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB4**
12 ft	16 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB5**
12 ft	14 AWG	Bare Leads	10.0 A	SJT	PVC	Power First	**1TNB6**
12 ft	14 AWG	Bare Leads	10.0 A	SJO	Rubber	Power First	**1TNB7**

Southwire

5AJ55

Power Supply Cords With Right Angle Plugs

These cords have a right angle plug at one end and a bare wire at the other, so they can be used in tight spaces to connect devices that don't come with a power cord to a power source.

Cord Length	Wire Size	Connec. Type	Max. Amps	Jacket Color	Item No.
Dryer Power Cord					
Right Angle NEMA 10-30P, 3 Conductors					
6 ft	10 AWG	Eyelet	30.0 A	Gray	**5AJ54**
Right Angle NEMA 14-30P, 4 Conductors					
6 ft	10 AWG	Eyelet	30.0 A	Black	**5AJ55**

3KUZ7

3KVA4

jds products, INC.

Sensing-Saf-Starts®

These cords are fitted with a safety device that prevents machines or equipment from accidentally restarting in the event of a power interruption. They are ideal for supplying power to tools with single-phase motors, such as table saws, drill presses, or other heavy equipment. They have a molded plug at one end that connects to an electrical outlet and a socket or bare wire at the other end that is attached or wired to the device.

Cord Length	Wire Size	Connec. Type	Max. Amps	Trade Designation	Jacket Material	Item No.
Anti-Restart Device 14 in Cord On Male Plug End, 12 in Cord On Female Receptacle End						
NEMA 5-15P, 3 Conductors						
2.1 ft	14 AWG	NEMA 5-15R	15.0 A	SJTO	Rubber	**3KUZ7**
Anti-Restart Device 20 in Cord On Equipment Switch End						
Bare Wire, 3 Conductors						
9.6 ft	14 AWG	Bare Leads	18.0 A	SJTO	Rubber	**3KVA2**
9.6 ft	14 AWG	Bare Leads	15.0 A	SJTO	Rubber	**3KVA4**
Anti-Restart Device 20 in Cord On Equipment Switch End, Molded Plug On Power End						
NEMA 5-15P, 3 Conductors						
9.6 ft	14 AWG	Bare Leads	15.0 A	SJTO	Rubber	**3KUZ9**

53TY60

55CW92

5Z975

2XYR3

5Z977

Plug-In and Line Cord GFCIs

These GFCIs are used with power cords to help protect users from ground faults. They have an integrated circuit breaker that turns off the power when a current overload is detected, helping protect users from electrical burns, shock, or electrocution. They are commonly used in temporary power applications to provide protection where electrical circuits may come in contact with water, such as in garages or outdoors, and a standard GFCI receptacle is not available. Plug-in GFCIs plug directly into a wall outlet and have one or more receptacles that devices plug into. Inline GFCIs are lengths of cord with an outlet plug at one end and one or more receptacles at the other end that devices plug into.

Manual Reset Type—These GFCIs require the user to reset it after a power outage by pushing the reset button to restore power to the connected equipment. They are typically used in industrial or construction applications where a sudden resumption in power could be dangerous if equipment starts back up unexpectedly, such as power drills, saws, and grinders.

Automatic Reset Type—These GFCIs automatically reset after a power interruption to immediately restart the connected device as soon as the power supply is restored. They're typically used with equipment intended for continuous use where a temporary power failure is likely and undesirable, such as pumps, pressure washers, portable signs or lighting, and engine heaters.

No. of Outlets	Cord Length	Max. Amps	Voltage	Plug Configuration	Receptacle Configuration	No. of Wires	Color	Encl. Rating	Brand	Item No.
Inline Portable GFCI Cords with Automatic Reset										
0	6 ft	30 A	120/240V AC	Bare Wire	Bare Wire	4	Yellow	NEMA 4X	Hubbell	**1DJH5**
0	6 ft	30 A	250V AC	Bare Wire	Bare Wire	4	Yellow	NEMA 4X	Hubbell	**1DJH9**
0	6 ft	30 A	120/208V AC	Bare Wire	Bare Wire	5	Yellow	NEMA 4X	Hubbell	**1DJH7**
0	15 ft	15 A	120V AC	NEMA 5-15P	Bare Wire	3	Yellow	Watertight	Hubbell	**3DZP5**
0	25 ft	30 A	120V AC	Bare Wire	Bare Wire	3	Yellow	NEMA 4X	Hubbell	**1DJG8**
0	25 ft	30 A	240V AC	Bare Wire	Bare Wire	3	Yellow	NEMA 4X	Hubbell	**1DJH3**
1	1.5 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Watertight	Hubbell	**6A675**
1	1.5 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X432**
1	6 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Watertight	Hubbell	**6A676**
1	6 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**11X426**
1	9 ft	15 A	120V AC	NEMA 5-15P	IEC 320	3	Black	Rainproof	Power First	**2XYT2**
1	25 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Weatherproof	Hubbell	**3D358**
1	25 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**11X427**
1	50 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X434**
3	2 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X428**
3	25 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X435**
3	50 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X436**
3	100 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X437**
Inline Portable GFCI Cords with Manual Reset										
0	2 ft	30 A	240V AC	Bare Wire	Bare Wire	3	Yellow	NEMA 4X	Hubbell	**1DJG9**
0	6 ft	30 A	120/240V AC	Bare Wire	Bare Wire	4	Black	NEMA 4X	Hubbell	**1DJH4**
0	6 ft	30 A	250V AC	Bare Wire	Bare Wire	4	Yellow	NEMA 4X	Hubbell	**1DJH8**
0	6 ft	30 A	120/208V AC	Bare Wire	Bare Wire	5	Yellow	NEMA 4X	Hubbell	**1DJH6**
0	15 ft	15 A	120V AC	NEMA 5-15P	Bare Wire	3	Yellow	Watertight	Hubbell	**4CT55**
0	25 ft	30 A	240V AC	Bare Wire	Bare Wire	3	Yellow	NEMA 4X	Hubbell	**1DJH1**
1	1.5 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Watertight	Hubbell	**4CT53**
1	2 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**5YL47**
1	2 ft	20 A	120V AC	NEMA 5-20P	NEMA 5-20R	3	Yellow	Rainproof	Power First	**2XYR6**
1	2 ft	20 A	240V AC	NEMA 6-20P	NEMA 6-20R		Yellow	Rainproof	Southwire	**55CW90**
1	3 ft	20 A	120V AC	NEMA 5-20P	NEMA 5-20R	3	Yellow	Weatherproof	Hubbell	**3HZ78**
1	6 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**2XYR4**
1	6 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Watertight	Hubbell	**4CT54**
1	6 ft	20 A	125V AC	NEMA 5-20P	NEMA 5-20R	3	Yellow	Rainproof	Power First	**53TY60**
1	6 ft	20 A	240V AC	NEMA 6-20P	NEMA 6-20R		Yellow	Rainproof	Southwire	**55CW92**
1	25 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**2XYR5**
1	25 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Weatherproof	Hubbell	**4CT52**
1	25 ft	20 A	125V AC	NEMA 5-20P	NEMA 5-20R	3	Yellow	Rainproof	Power First	**53TY61**
1	25 ft	20 A	240V AC	NEMA 6-20P	NEMA 6-20R		Yellow	Rainproof	Southwire	**55CW91**
3	2 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**2XYR8**
Plug-In Portable GFCI Bodies with Automatic Reset										
0	No Cord	15 A	125V AC	NEMA 5-15P	User Supplied	3	Yellow	Rainproof	Power First	**11X423**
0	No Cord	15 A	125V AC	NEMA 5-15P	User Supplied	3	Black	Rainproof	Power First	**11X424**
1	No Cord	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Indoor	Power First	**11X429**
3	No Cord	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Ivory	Indoor	Hubbell	**5Z975**
5	No Cord	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	White	Indoor	Power First	**11X433**
Plug-In Portable GFCI Bodies with Manual Reset										
0	No Cord	15 A	120V AC	NEMA 5-15P	User Supplied	3	Yellow	Rainproof	Power First	**2XYR1**
0	No Cord	15 A	120V AC	NEMA 5-15P	User Supplied	3	Black	Rainproof	Power First	**2XYR2**
0	No Cord	15 A	120V AC	NEMA 5-15P	User Supplied	3	Black	Indoor	Hubbell	**4HD20**
0	No Cord	15 A	120V AC	NEMA 5-15P	User Supplied	3	Yellow	Indoor	Hubbell	**4HD21**
0	No Cord	20 A	125V AC	User Supplied	User Supplied	3	Black	Rainproof	Power First	**2XYR7**
1	No Cord	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Indoor	Power First	**5YL43**
Plug-In Portable GFCI Cords with Automatic Reset										
0	15 ft	15 A	120V AC	NEMA 5-15P	Bare Wire	3	Black	NEMA 3R	Hubbell	**1VCT7**
1	9 in	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X425**
3	2 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X431**
4	6 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**11X430**
Plug-In Portable GFCI Cords with Manual Reset										
1	1 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Weatherproof	Hubbell	**4HD19**
1	9 in	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**2XYR3**
1	25 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**53TY64**
3	2 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**5YL45**
3	6 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Rainproof	Power First	**53TY62**
3	25 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Southwire	**9MG38**
4	6 ft	15 A	120V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	NEMA 3R	Hubbell	**5Z977**
4	6 ft	20 A	120V AC	NEMA 5-20P	NEMA 5-20R	3	Yellow	NEMA 3R	Hubbell	**5Z978**
4	6 ft	15 A	125V AC	NEMA 5-15P	NEMA 5-15R	3	Yellow	Outdoor	Power First	**53TY63**

Hardwired 30A GFCIs

These GFCIs are hardwired to machinery or distribution boards. When a current overload is detected, it will trip a circuit breaker to stop the power and protect users from burns, shock, or electrocution. They're typically used in permanent power applications where electrical circuits may come in contact with moisture. UL Listed and CSA Certified.

1DJE9

Voltage	Phase	Encl. Rating	WITHOUT ALARM Item No.	WITH ALARM Item No.
Automatic				
120V AC	Single	4X	**1DJF2**	**1DJF3**
240V AC	Single	4X	**1DJF6**	**1DJF7**
120/240V AC	Single	4X	—	**1DJF9**
120/208V AC	Three	4X	**1DJG2**	—
Manual				
120V AC	Single	4X	**1DJE9**	**1DJF1**
120/208V AC	Three	4X	**1DJG1**	—
120/240V AC	Single	4X	—	**1DJF8**
240V AC	Three	4X	**1DJG3**	—

53TZ09

52NY38

Surge Protector Plug Adapters

These adapters plug directly into power outlets to provide protection against power surges. In the event of an overload, they will trip the integrated circuit breaker to prevent damage to equipment.

No. of Outlets	Rated Joules	Color	Circuit Breaker	Telephone/Fax Surge Protection	USB Protection	Item No.
APC						
4	—	Black	No	No	No	**43Y958**
GE						
2	450 J	White	No	No	2	**53TZ09**
Power First						
1	250 J	White	No	No	No	**52NY47**
3	250 J	White	No	No	No	**52NY48**
5	250 J	Light Gray	No	Yes	No	**52NY44**
5	250 J	Black	No	No	No	**52NY49**
6	1,200 J	Black	No	No	No	**52NY38**
Tripp Lite						
2	1,410 J	Black	Yes	No	No	**4HHH3**

Power Strips

Ideal for homes, offices, medical facilities, and industrial environments where power distribution to several electrical devices is a priority.

Total Number of Outlets	Cord Length	Max. Amps	Plug Configuration	Receptacle Configuration	Color	Power Indicator	Circuit Breaker	No. of Power Switches	L	W	Brand	Item No.
Home & Office Power Strips												
4	3 ft	15 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	8 17/64 in	1 55/64 in	Power First	**52NY40**
6	3 ft	15 A	NEMA 5-15P	NEMA 5-15R	Beige	No	1	1	11 1/64 in	1 55/64 in	Power First	**52NY41**
6	4 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	Yes	1	9 29/64 in	1 45/64 in	Tripp Lite	**43MC69**
6	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Beige	No	1	1	9 5/8 in	1 37/64 in	Power First	**52NY43**
Commercial & Industrial Power Strips												
6	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	1	12 in	4 3/4 in	Power First	**53XH90**
6	15 ft	20 A	NEMA 5-20P	NEMA 5-20R	Gray	Yes	1	1	12 1/2 in	2 1/2 in	Tripp Lite	**2KGD7**
6	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	1	12 in	5 3/4 in	Power First	**53XH87**
10	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	13 in	3 39/64 in	Power First	**52NY34**
Workbench & Cabinet Power Strips												
6	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	36 in	1 29/32 in	Hubbell	**1MBU2**
6	6 ft	20 A	NEMA 5-20P	NEMA 5-15R	White	No	1	1	36 in	1 29/32 in	Hubbell	**1MBV5**
8	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	48 in	2 1/8 in	Power First	**3W211**
8	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	24 in	1 5/8 in	Power First	**52NY32**
8	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	0	48 in	1 5/8 in	Power First	**52NY36**
10	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	White	No	1	1	60 in	1 29/32 in	Hubbell	**1MBU4**
10	6 ft	20 A	NEMA 5-20P	NEMA 5-15R	White	No	1	1	60 in	1 29/32 in	Hubbell	**1MBV7**
10	6 ft	20 A	NEMA 5-20P	NEMA 5-20R	Gray	No	1	0	48 in	1 5/8 in	Power First	**2MV41**
12	6 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	77 in	1 5/8 in	Power First	**52NY33**
12	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	36 in	1 1/2 in	Tripp Lite	**2MY47**
16	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	70 in	1 5/8 in	Power First	**52NY31**
20	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	1	1	60 in	1 1/2 in	Tripp Lite	**2MY48**
24	15 ft	15 A	NEMA 5-15P	NEMA 5-15R	Gray	No	1	0	72 in	2 1/8 in	Power First	**2MV37**
Healthcare Facility Power Strips												
4	6 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	1	0	13 3/4 in	2 1/2 in	Tripp Lite	**54VH64**
4	7 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	6 5/16 in	2 1/2 in	Tripp Lite	**54VH66**
4	10 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	9 15/16 in	4 9/32 in	Tripp Lite	**25D145**
4	10 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	8 35/64 in	2 1/2 in	Tripp Lite	**15F826**
4	15 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	8 21/32 in	1 1/2 in	Tripp Lite	**1AYB3**
4	15 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 3/4 in	2 1/2 in	Tripp Lite	**2GZR4**
4	15 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	8 21/32 in	1 1/2 in	Tripp Lite	**5DLJ2**
6	1.5 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 3/4 in	2 1/2 in	Tripp Lite	**2GZR6**
6	6 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 3/4 in	1 1/2 in	Tripp Lite	**1AYB4**
6	7 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	13 3/4 in	2 1/2 in	Tripp Lite	**54VH65**
6	15 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	1	0	13 3/4 in	1 1/2 in	Tripp Lite	**3TA14**
6	15 ft	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	No	2	0	13 3/4 in	1 1/2 in	Tripp Lite	**5DLJ3**
6	15 ft	20 A	HG NEMA 5-120P	HG NEMA 5-20R	White	No	2	0	13 3/4 in	2 1/2 in	Tripp Lite	**43MC71**
Power Strip Mounting System												
Power Strip Mounting System, Fits 3/4 in to 2 1/4 in dia Pole, Includes Cord Wrap, Drip Shield											Tripp Lite	**25D146**

52NY34

1MBV5

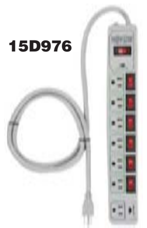
1AYB4

5DLJ3

Surge-Protected Power Strips

These power strips protect connected devices from damage due to unexpected voltage increases. They have a surge protector that absorbs the excess voltage and diverts it to the ground wire, preventing it from reaching the connected equipment. A surge protector's joule rating determines how much energy it can absorb before it fails. They are suitable for homes, offices, medical facilities, and industrial environments where protection from power spikes is needed.

Total Number of Outlets	Cord Length	Rated Joules	Max. Surge Current	Max. Amps	Plug Configuration	Receptacle Configuration	Color	Power Indicator	Coax Surge Protection	Telephone Surge Protection	USB Protection	L	W	Brand	Item No.
Home & Office Surge-Protected Power Strips															
4	4 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	8 17/64 in	1 55/64 in	Power First	**52NY67**
6	4 ft	1,050	34.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	11 1/64 in	1 55/64 in	Power First	**52NY52**
6	6 ft	2,100	35.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	Yes	No	No	2	13 39/64 in	2 57/64 in	Tripp Lite	**30EF41**
6	6 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	2	13 in	1 55/64 in	Power First	**52NY54**
6	6 ft	1,050	19.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	9 21/32 in	1 7/8 in	Power First	**52NY55**
6	6 ft	1,050	34.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	Yes	No	No	0	11 1/64 in	1 55/64 in	Power First	**52NY56**
6	6 ft	790	35.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	10 11/32 in	1 21/32 in	Tripp Lite	**4HHG6**
6	6 ft	790	35.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	Yes	No	No	0	10 11/32 in	1 21/32 in	Tripp Lite	**4HHG7**
6	15 ft	250	6.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Beige	Yes	No	No	0	9 21/32 in	1 9/16 in	Power First	**52NY42**
7	4 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	12 63/64 in	2 3/4 in	Power First	**52NY66**
7	4 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11 1/2 in	2 in	GE	**53TZ11**
7	6 ft	1,080	72 kA	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	15 in	3 13/32 in	Tripp Lite	**15D976**
7	6 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11 1/2 in	2 in	GE	**53TZ12**
7	6 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	2	10 in	3 in	GE	**53TZ16**
7	8 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	No	No	No	0	11 1/2 in	2 in	GE	**53TZ10**
7	12 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11 1/2 in	2 in	GE	**53TZ13**
7	15 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	2	10 in	3 in	GE	**53TZ15**
7	25 ft	1,080	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	No	No	No	0	11 1/2 in	2 in	GE	**53TZ14**
8	6 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	10 53/64 in	5 9/64 in	Power First	**52NY57**
8	6 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	10 1/2 in	5 9/64 in	Power First	**52NY64**
8	12 ft	3,840	150 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9 in	3 1/2 in	Tripp Lite	**5JK05**
8	25 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	No	0	10 53/64 in	5 9/64 in	Power First	**52NY53**
Commercial & Industrial Surge-Protected Power Strips															
4	6 ft	3,330	135 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	6 in	3 1/2 in	Tripp Lite	**5JK03**
6	6 ft	3,330	135 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	7 in	3 1/2 in	Tripp Lite	**5JK04**
6	6 ft	1,200	45 kA	15 A	NEMA 5-15P	NEMA 5-15R	Beige	Yes	No	No	0	1 3/4 in	1 3/4 in	Power First	**53XH85**
6	15 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	14 3/4 in	2 5/32 in	Power First	**52NY60**
8	12 ft	3,840	150 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9 in	3 1/2 in	Tripp Lite	**5JK06**
8	12 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	10 15/64 in	5 5/16 in	Power First	**52NY58**
8	12 ft	3,840	150 kA	12 A	NEMA 5-15P	NEMA 5-15R	White	Yes	No	Yes	0	9 in	2 1/2 in	Tripp Lite	**33L723**
8	25 ft	3,840	150 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	9 in	3 1/2 in	Tripp Lite	**2GZR3**
8	25 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	Yellow	Yes	No	No	0	10 15/64 in	5 5/16 in	Power First	**52NY62**
24	15 ft	450	22 kA	15 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	No	0	72 in	1 1/2 in	Tripp Lite	**2KGE2**
Datacom Surge-Protected Power Strips															
6	6 ft	3,330	92 kA	12 A	NEMA 5-15P	NEMA 5-15R	Gray	Yes	No	Yes	0	7 in	3 1/2 in	Tripp Lite	**5JK07**
8	6 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	10 53/64 in	5 9/64 in	Power First	**52NY59**
8	10 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	10 1/2 in	5 9/64 in	Power First	**52NY63**
8	10 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	Yes	Yes	Yes	0	10 1/2 in	5 9/64 in	Power First	**52NY65**
10	6 ft	1,050	30 kA	15 A	NEMA 5-15P	NEMA 5-15R	White	Yes	Yes	Yes	0	11 13/16 in	5 9/64 in	Power First	**52NY61**
10	8 ft	3,330	13.5 kA	15 A	NEMA 5-15P	NEMA 5-15R	Black	Yes	Yes	Yes	0	11 39/64 in	5 in	Tripp Lite	**33L738**
Healthcare Facility Surge-Protected Power Strips															
4	6 ft	1,410	120 kA	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13 3/4 in	2 1/2 in	Tripp Lite	**54VH63**
4	15 ft	1,410	60 kA	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13 3/4 in	2 1/2 in	Tripp Lite	**6RHV9**
6	6 ft	1,050	19.5 kA	15 A	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	13 3/4 in	2 1/2 in	Tripp Lite	**19N899**
6	10 ft	1,050	19.5 kA	15 A	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	13 3/4 in	2 1/2 in	Tripp Lite	**19N901**
6	15 ft	1,050	19.5 kA	15 A	HG NEMA 5-15P	HG NEMA 5-15R	White	Yes	No	No	0	13 3/4 in	2 1/2 in	Tripp Lite	**3TA12**
6	15 ft	3,330	48 kA	12 A	HG NEMA 5-15P	HG NEMA 5-15R	Gray	Yes	No	No	0	7 in	3 1/2 in	Tripp Lite	**5JJ97**

15D976


5JK04

6RHV9

3TA12

3GUL4

Power Distribution Carts and Power Stations

Stainless steel construction with heavy-duty frames. Clear breaker panel window. Automatic GFCI reset. NEMA 3R enclosure. UL 1640 Listed. 14N245 and 14N246 are C-UL Listed.

Features	Voltage Rating	Amps	No. of Poles	No. of Wires	Cord Length	Inlet	Outlet	Item No.
Power Distribution Carts								
Main Circuit Breaker	120/208V AC	100 A	4	5	20 ft	Direct Wired	(2) 20A @ 125V 5-20R GFCI, (4) 20A @ 120/208V L21-20R Non-GFCI	**14N245**
Main Circuit Breaker	120/208V AC	200 A	4	5	—	Cam Locks	(2) 20A @ 125V 5-20R GFCI, (8) 20A @ 120/208V L21-20R Non-GFCI	**14N246**
3-Phase	120/208V AC	100 A	4	5	20 ft	Direct Wired	(10) 20A @ 125V GFCI, (2) 30A @ 250V Non-GFCI	**3GUK7**
3-Phase	120/208V AC	100 A	4	5	20 ft	Direct Wired	(2) 20A @ 125V GFCI, (4) 50A @ 125/250V Non-GFCI	**3GUK8**
3-Phase	120/208V AC	200 A	4	5	—	Cam Locks	(2) 20A @ 125V GFCI 5-20R, (2) 30A @ 250V Non-GFCI, (6) 50A @ 125/250V	**3GUK9**

kVA Rating	Amps	Phase	Input Voltage	Input Protection	Output Voltage	Output Connection	Item No.
Portable Power Stations							
15	50 A	Three	480V AC	30A Fused Disconnect	120 to 208V AC	(2) L6-30R 250V Non-GFCI and (10) 5-20R 125V GFCI Receptacles	**3GUL2**
30	100 A	Three	480V AC	60A Fused Disconnect	120 to 208V AC	(4) 50A 125/250V Non-GFCI and (2) 20A 125V GFCI Receptacles	**3GUL4**
30	100 A	Three	480V AC	60A Fused Disconnect	120 to 208V AC	(2) L6-30R 250V Non-GFCI and (10) 5-20R 125V GFCI Receptacles	**3GUL3**

3GUJ2

4D577

Power Distribution Box

See pages 326 and 327 for NEMA plug configurations.

CEP—1-phase GFCI. Boxes are UL and C-UL Listed. Boxes with Automatic Reset include 6 individually protected GFCI circuits.

- Open ground and open neutral protection

Hubbell Wiring Device-Kellems—Meets NEC requirements and is listed at the latest UL 1640 standard. Provide temporary power access for 20A and 30A straight-blade or Twist-Lock devices in a metal NEMA 3R raintight enclosure. UL Listed; 1DNU8 is also CSA Certified.

50A-input models are for use with Twist-Lock connector 3D322; see page 330.

Power First—GFCI distribution boxes feature outlets with circuit breaker protection. Raintight NEMA 3R construction. UL, C-UL, and ETL Listed.

No. of Poles	No. of Wires	Outlet	Amps	Voltage Rating	Color	Material of Construc.	Item No.
CEP							
1-Phase, Automatic GFCI with Frame							
3	4	(1) L6-30R, (6) 5-20R GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**3GUJ1**
1-Phase, Automatic GFCI With Legs							
3	4	(1) L6-30R Single, (6) 5-20R GFCI Single	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**3GUJ3**
3	4	(1) L6-30R, (6) 5-20R GFCI	50 A	120/240V AC	Silver	Stainless Steel	**3GUJ7**
3	4	(1) L6-30R, (6) L5-20R GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**3GUJ2**
3	4	(1) L6-30R, (6) L5-20R GFCI	50 A	120/240V AC	Silver	Stainless Steel	**3GUJ6**
3	4	(4) 5-20R GFCI	30 A	120/240V AC	Yellow	Heavy-Duty Steel	**4MZX6**
3	4	(4) 5-20R GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**4MZX8**
3	4	(4) L5-20R GFCI	30 A	120/240V AC	Yellow	Heavy-Duty Steel	**4MZX5**
3	4	(4) L5-20R GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**4MZX7**
1-Phase, Automatic Reset GFCI with Frame							
3	4	(1) L6-30R, (6) 5-20R GFCI	50 A	120/240V AC	Silver	Stainless Steel	**3GUJ5**
3	4	(1) L6-30R, (6) L5-20R GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**3GUH9**
3	4	(1) L6-30R, (6) L5-20R GFCI	50 A	120/240V AC	Silver	Stainless Steel	**3GUJ4**
1-Phase with Frame							
3	4	(4) 30A @ 125/250V L14-30R Non-GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**53PC82**
3	4	(6) 30A @ 125/250V L14-30R Non-GFCI	50 A	120/240V AC	Yellow	Heavy-Duty Steel	**53PC83**
3-Phase With Frame							
4	5	(4) 20A @ 120/208V L21-20R Non-GFCI	200 A	120/208V AC	Silver/ Black	Stainless Steel	**53PC86**
4	5	(6) 50A @ 125/250V Non-GFCI	200 A	120/208V AC	Silver/ Black	Stainless Steel	**53PC85**
Hubbell Wiring Device-Kellems							
Manual Reset GFCI							
3	4	(1) 50A Twist Lock, (7) 5-20R	50 A	120/240V AC	Yellow	Painted Galvanized Steel	**4D577**
3	4	(1) 50A Twist Lock, (7) L5-20R	50 A	120/240V AC	Yellow	Painted Galvanized Steel	**4D572**
3	4	(1) L6-30, (6) 5-20R	50 A	120/240V AC	Yellow	Painted Steel	**1DNV1**
3	4	(1) L6-30, (6) L5-20R	50 A	120/240V AC	Yellow	Painted Steel	**1DNU9**
4	5	(1) 60A Class L, (6) 5-20R GFCI	60 A	120/208V AC	Green	Painted Galvanized Steel	**5LY80** †
4	5	(1) 60A Pin and Sleeve, (6) 5-20R GFCI	60 A	120/208V AC	Yellow	Painted Galvanized Steel	**1DNU8**
Power First							
Automatic Reset GFCI							
3	4	(1) L6-30R Locking Non GFCI Protected Receptacle, (6) 5-20R GFCI Protected Receptacles	50 A	120/240V AC	Yellow	Steel	**4HDX2**

† Military Class L inlet and feed through and NATO 383 green color.

13M206

4NAF7

Temporary Power Cords

Cord Length	Wire Size	Max. Amps	Voltage	Plug Configuration	Receptacle Configuration	No. of Outlets	Color	Item No.
KH Industries								
Dead End Power Stringer								
30 ft	12 AWG	20.0 A	125V AC	NEMA 5-20P	NEMA 5-20R	6	Black	**14A287**
30 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14A289**
30 ft	10 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA 5-20R	6	Black	**14A293**
60 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	8	Black	**14A290**
60 ft	10 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA 5-20R	12	Black	**14A294**
Feed Through Power Stringer								
30 ft	12 AWG	20.0 A	125V AC	NEMA 5-20P	NEMA 5-20R	6	Black	**14A288**
30 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14A291**
30 ft	10 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA 5-20R	6	Black	**14A295**
60 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	8	Black	**14A292**
60 ft	10 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA 5-20R	12	Black	**14A296**
Pendant Drop Outlet Box								
25 ft	12 AWG	15.0 A	125V AC	NEMA 5-15P	NEMA 5-15R	4	Yellow	**13M204**
25 ft	12 AWG	20.0 A	125V AC	NEMA 5-20P	NEMA 5-20R	4	Yellow	**13M206**
25 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	4	Yellow	**13M208**
50 ft	12 AWG	15.0 A	125V AC	NEMA 5-15P	NEMA 5-15R	4	Yellow	**13M205**
50 ft	12 AWG	20.0 A	125V AC	NEMA 5-20P	NEMA 5-20R	4	Yellow	**13M207**
50 ft	12 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA 5-20R	4	Yellow	**13M209**
Hubbell Wiring Device-Kellems								
Prewired Receptacle								
—	6 AWG	50 A	125/250V AC	Bare Wire	CS6369	—	Yellow	**4D583**
Temporary Power Cord								
50 ft	6/3, 8/1	50 A	125/250V AC	CS6369	CS6364C	—	Yellow	**4D562**
50 ft	6/3, 8/1	50 A	125/250V AC	CS6365L	CS6364L	—	Black	**12R421**
100 ft	6/3, 8/1	50 A	125/250V AC	CS6365L	CS6364L	—	Black	**12R422**
CEP								
Cam Lock Temporary Power Cord								
6 ft	2/0	200 A	600V AC	CL20MBK	CL20FBK	1	Black	**4NAE5**

Cord Length	Wire Size	Max. Amps	Voltage	Plug Configuration	Receptacle Configuration	No. of Outlets	Color	Item No.
6 ft	2/0	200 A	600V AC	CL20MBU	CL20FBU	1	Black	**4NAE6**
6 ft	2/0	200 A	600V AC	Bare Wire	CL20FG	1	Black	**4NAE7**
6 ft	2/0	200 A	600V AC	Bare Wire	CL20FR	1	Black	**4NAE8**
6 ft	2/0	200 A	600V AC	CL20MW	CL20FW	1	Black	**4NAE9**
10 ft	4/0	400 A	600V AC	CL40MBK	CL40FBK	1	Black	**4NAG3**
10 ft	4/0	400 A	600V AC	CL40MBU	CL40FBU	1	Black	**4NAG4**
10 ft	4/0	400 A	600V AC	CL40MG	CL40FG	1	Black	**4NAG5**
10 ft	4/0	400 A	600V AC	CL40MR	CL40FR	1	Black	**4NAG6**
10 ft	4/0	400 A	600V AC	CL40MW	CL40FW	1	Black	**4NAG7**
25 ft	4/0	400 A	600V AC	CL4MBK	CL40FBK	1	Black	**4NAF2**
25 ft	4/0	400 A	600V AC	CL4MBU	CL40FBU	1	Black	**4NAF3**
25 ft	4/0	400 A	600V AC	CL4MG	CL40FG	1	Black	**4NAF4**
25 ft	4/0	400 A	600V AC	CL4MR	CL40FR	1	Black	**4NAF5**
25 ft	4/0	400 A	600V AC	CL4MW	CL40FW	1	Black	**4NAF6**
25 ft	2/0	200 A	600V AC	CL20MBK	CL20FBK	1	Black	**4NAF7**
25 ft	2/0	200 A	600V AC	CL20MBU	CL20FBU	1	Black	**4NAF8**
25 ft	2/0	200 A	600V AC	CL20MG	CL20FG	1	Black	**4NAF9**
25 ft	2/0	200 A	600V AC	CL20MR	CL20FR	1	Black	**4NAG1**
25 ft	2/0	200 A	600V AC	CL20MW	CL20FW	1	Black	**4NAG2**
Extension Cord								
50 ft	10 AWG	30.0 A	125/250V AC	NEMA L14-30P	NEMA L14-30R	1	Black	**14N229**
50 ft	10 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA L14-20R	1	Black	**14N231**
50 ft	12 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA L21-20R	1	Black	**14N240**
50 ft	10 AWG	30.0 A	120/208V AC	NEMA L21-30P	NEMA L21-30R	1	Black	**14N242**
100 ft	10 AWG	30.0 A	125/250V AC	NEMA L14-30P	NEMA L14-30R	1	Black	**14N228**
100 ft	10 AWG	20.0 A	125/250V AC	NEMA L14-20P	NEMA L14-20R	1	Black	**14N230**
100 ft	12 AWG	20.0 A	120/208V AC	NEMA L21-20P	NEMA L21-20R	1	Black	**14N241**
100 ft	10 AWG	30.0 A	120/208V AC	NEMA L21-30P	NEMA L21-30R	1	Black	**14N243**
Generator Cord with Pendant Box								
4 ft	12 AWG	20.0 A	120/240V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14N232**
25 ft	12 AWG	20.0 A	120/240V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14N233**
50 ft	12 AWG	20.0 A	120/240V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14N234**
100 ft	12 AWG	20.0 A	120/240V AC	NEMA L14-20P	NEMA 5-20R	4	Black	**14N235**
Prewired Receptacle								
—	10 AWG	30 A	125/250V AC	Bare Wire	L14-30R	—	Black	**3GUK5**
—	6 AWG	50 A	125/250V AC	Bare Wire	CS6369	—	Black	**3GUK6**
Temporary Power Cord								
6 ft	2/5	100 A	120/208V AC	Bare Wire	5100C9W	1	Black	**4NAF1**

Twistable Drop-Over Cable Ramps

- ABS material

Twistable drop-over cable ramps articulate from side to side, allowing them to turn corners and adapt to an area's layout while maintaining a flat profile. They have an interlocking design which allows for reconfigurations, repairs, or replacements without moving cable or hose.

Max. Cable Dia.	Length	W	H	Load Capacity	BLACK/ YELLOW Item No.	BLACK Item No.
1 Number of Channels						
⅜ in	13 ⅛ in	3 in	¾ in	32,000 lb/Axle	**14N917**	**14N919**
	24 ⅝ ft	3 in	¾ in	32,000 lb/Axle	**23Z433**	—
	39 ½ in	3 in	¾ in	32,000 lb/Axle	**14N916**	**14N918**
¾ in	14 ⅛ in	9 ¾ in	1 ⅜ in	13,500 lb/Axle	**30KD73**	**30KD75**
	33 in	9 ¾ in	1 ⅜ in	13,500 lb/Axle	**30KD72**	**30KD74**
1 ½ in	14 ⅛ in	13 ⅝ in	2 ⅛ in	13,500 lb/Axle	**30KD77**	**30KD79**
	34 in	13 ⅝ in	2 ⅛ in	13,500 lb/Axle	**30KD76**	**30KD78**

14N916

Drop-Over Modular Cable Ramps

- Polyurethane material

Drop-over modular cable ramps are placed over cable and hose lines that run along the ground. They have an interlocking design, which allows for reconfigurations, repairs, or replacements without moving cable or hose. These cable ramps prevent damage due to foot and vehicle traffic.

1-Channel 3KUP7

2-Channel 22F234

3-Channel 32RX21

Connection Style	Max. Cable Dia.	Length	W	H	Load Capacity	Brand	BLACK Item No.	ORANGE Item No.	YELLOW Item No.
1-Channel Drop-Over Cable Ramps									
L Shaped	½ in	36 ¾ in	5 ¾ in	¾ in	2,100 lb/Axle	Fastlane	**22F232**	**3KUP5**	—
	1 in	38 ½ in	10 ¾ in	1 ½ in	2,100 lb/Axle	Fastlane	**22F233**	**3KUP7**	—
T Shaped	1 ¼ in	38 ¼ in	11 ½ in	1 ⅝ in	17,000 lb/Axle	Linebacker	—	**3KUT9**	—
	2 ¼ in	38 ½ in	14 ¼ in	3 in	23,400 lb/Axle	Linebacker	—	**5MKH3**	—
2-Channel Drop-Over Cable Ramps									
L Shaped	1 in	38 ½ in	10 ¾ in	1 ½ in	2,100 lb/Axle	Fastlane	**22F235**	**22F234**	—
3-Channel Drop-Over Cable Ramps									
Dog Bone	1 5⁄16 in	18 in	19 ¾ in	1 ⅞ in	21,000 lb/Axle	Guard Dog	**32RX22**	**32RX21**	**32RX23**

Lightweight Drop-Over Cable Ramps

- Polyurethane material

Lightweight drop-over cable ramps are placed over cable and hose lines that run along the ground and have a lightweight construction that helps facilitate setup. These cable ramps protect the lines from damage due to foot and vehicle traffic.

61HY42

2GTG6

Max. Cable Dia.	Length	W	H	Channel Width	Channel Height	Load Capacity	Color	Brand	Item No.
1 Number of Channels									
⅞ in	2 ft	15 ¾ in	2 ¼ in	⅞ in	⅞ in	500 lb	Gray	Guardian Floor Protection	**61HY42**
	3 ft	15 ¾ in	2 ¼ in	⅞ in	⅞ in	500 lb	Gray	Guardian Floor Protection	**61HY43**
	4 ft	15 ¾ in	2 ¼ in	⅞ in	⅞ in	500 lb	Gray	Guardian Floor Protection	**61HY44**
2 Number of Channels									
¾ in	72 in	10 in	2 in	1 ¼ in	⅞ in	20,000 lb/Axle	Yellow	—	**2GTG6**
	108 in	10 in	2 in	1 ¼ in	⅞ in	20,000 lb/Axle	Yellow	—	**2GTG7**

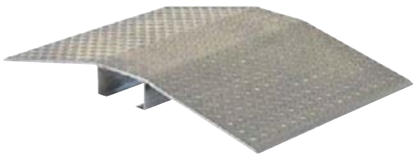
Aluminum Drop-Over Cable Ramps

- Aluminum material

Cable ramps drop over power cords, electrical cable, and hydraulic hose to protect them from damage and prevent tripping hazards. They're made from durable aluminum and support heavy loads from forklifts, carts, vehicles, and personnel.

Channel Width	Channel Height	Length	W	H	Load Capacity	Color	No. of Channels	Brand	Item No.
Aluminum Cable & Hose Ramps									
2 ⅝ in	¾ in	48 in	7 ⅛ in	1 ⅛ in	10,000 lb/Axle	Silver	1	—	**1F141**
	¾ in	36 in	7 ⅛ in	1 ⅛ in	10,000 lb/Axle	Silver	1	—	**1TFT9**
2 ½ in	1 ¼ in	36 in	9 ⅛ in	1½"	21,000 lb/Axle	Silver	1	—	**2GWL7**
	1 ¼ in	4 ft	9 ⅛ in	1½"	21,000 lb/Axle	Silver	1	—	**2GWL8**
	1 ¼ in	6 ft	9 ⅛ in	1½"	21,000 lb/Axle	Silver	1	—	**2GWL9**
Wide-Span Aluminum Cable & Hose Ramps									
4 in	3 in	48 in	36 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y880**
	3 in	36 in	24 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y930**
	4 in	48 in	36 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y883**
	4 in	36 in	24 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y931**
8 in	3 in	48 in	40 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y871**
	3 in	40 in	24 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y928**
	4 in	48 in	40 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y872**
	4 in	40 in	24 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y929**
12 in	3 in	48 in	44 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y866**
	3 in	44 in	24 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y925**
	4 in	48 in	44 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y867**
	4 in	44 in	24 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y926**
16 in	3 in	48 in	48 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y856**
	3 in	48 in	24 in	3 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y921**
	4 in	48 in	24 in	4 ⅜ in	2,100 lb/Axle	Silver	1	Vestil	**32Y922**

Cable & Hose Ramps 1TFT9



Wide-Span 32Y856

1-Channel
3KWX8

2-Channel
22F229

3-Channel
32RX19

4-Channel
38NF57

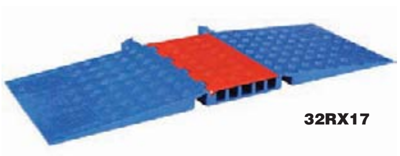
5-Channel
32RX20

Lay-In Cable Ramps

- Polyurethane material

Ramps have one or more channels to place cable and hose in, keeping them off the floor and protecting them from wear and tear. They have an interlocking design which allows for reconfigurations, repairs, or replacements without moving cable or hose.

Connection Style	Max. Cable Dia.	Length	W	H	Load Capacity	Color	Brand	Item No.
1-Channel Split-Top Cable Ramps								
Dog Bone	¾ in	38 ½ in	11 in	1 ¼ in	26,000 lb/Axle	Black/Orange	Checkers	**22F231**
T Shaped	1 ¼ in	38 ¼ in	11 ½ in	1 ⅝ in	17,000 lb/Axle	Yellow	Linebacker	**39AM93**
	1 ¼ in	38 ¼ in	11 ½ in	1 ⅝ in	17,000 lb/Axle	Orange	Linebacker	**3KWX8**
	2 ¼ in	38 ½ in	14 ¼ in	3 in	23,400 lb/Axle	Yellow	Linebacker	**39AM94**
	2 ¼ in	38 ½ in	14 ¼ in	3 in	23,400 lb/Axle	Orange	Linebacker	**5MKH4**
2-Channel Hinged-Cover Cable Ramps								
Dog Bone	¾ in	38 ½ in	12 in	1 ¼ in	26,000 lb/Axle	Black/Orange	Checkers	**22F229**
T Shaped	3 ¼ in	38 ½ in	21 ¾ in	4 ¼ in	21,760 lb/Axle	Orange/Yellow	Checkers	**32RX24**
3-Channel Hinged-Cover Cable Ramps								
Dog Bone	¾ in	38 ⅜ in	13 ¾ in	1 ¼ in	34,000 lb/Axle	Black/Orange	Checkers	**22F227**
	2 ⅛ in	18 ⅜ in	18 ⅝ ft	2 ⅞ in	28,420 lb/Axle	Yellow	Yellow Jacket	**22F221**
	2 ⅛ in	23 ½ in	18 ¾ in	2 ⅞ in	28,420 lb/Axle	Black/Yellow	Yellow Jacket	**22F222**
	2 ⅛ in	23 ½ in	18 ¾ in	2 ⅞ in	28,420 lb/Axle	Black/Yellow	Yellow Jacket	**22F223**
	2 ⅛ in	36 in	18 ½ in	2 ⅞ in	28,420 lb/Axle	Black/Yellow	Yellow Jacket	**22F220**
	2 ¼ in	38 ⅝ in	20 in	3 in	28,420 lb/Axle	Black/Orange	Checkers	**5MKK3**
Gripper	2 ¼ in	36 in	18 ¼ in	2 ¾ in	10,000 lb/Axle	Gray/Yellow	Power First	**32RX19**
T Shaped	2 ¼ in	19 ¾ in	14 ½ in	3 in	28,420 lb/Axle	Orange	Checkers	**32RX26**
	2 ¼ in	24 ¾ in	23 ¼ in	3 in	28,420 lb/Axle	Orange/Yellow	Checkers	**32RX27**
	2 ¼ in	24 ¾ in	23 ¼ in	3 in	28,420 lb/Axle	Orange/Yellow	Checkers	**32RX28**
	2 ¼ in	38 ⅝ in	19 ¾ in	3 in	28,420 lb/Axle	Orange/Yellow	Checkers	**32RX25**
4-Channel Hinged-Cover Cable Ramps								
Dog Bone	3 in	24 in	8 ⅜ in	4 in	12,000 lb/Axle	Yellow	Bumble Bee	**38NF58**
	3 in	24 in	24 in	4 in	12,000 lb/Axle	Black/Yellow	Bumble Bee	**38NF59**
	3 in	24 in	24 in	4 in	12,000 lb/Axle	Black/Yellow	Bumble Bee	**38NF60**
	3 in	36 in	24 in	4 in	20,200 lb/Axle	Black/Yellow	Bumble Bee	**38NF57**
5-Channel Hinged-Cover Cable Ramps								
Dog Bone	¾ in	38 ⅜ in	16 ⅞ in	1 ¼ in	48,000 lb/Axle	Black/Orange	Checkers	**22F225**
	1 13/40 in	19 ¾ in	8 ¾ in	1 ⅞ in	21,000 lb/Axle	Orange	Checkers	**5MKJ9**
	1 in	24 in	19 ¾ in	1 ⅞ in	32,600 lb/Axle	Black/Yellow	Yellow Jacket	**22F218**
	1 in	24 in	19 ¾ in	1 ⅞ in	32,600 lb/Axle	Black/Yellow	Yellow Jacket	**22F219**
	1 13/40 in	24 ½ in	21 ⅞ in	2 in	21,000 lb/Axle	Black/Orange	Checkers	**5MKK0**
	1 13/40 in	24 in	21 ¾ in	2 ½ in	21,000 lb/Axle	Black/Orange	Checkers	**5MKK1**
	1 13/40 in	28 ½ in	28 ¼ in	1 ⅞ in	21,000 lb/Axle	Black/Orange	Checkers	**5MKK2**
	1 in	36 in	19 ¾ in	1 ⅞ in	32,600 lb/Axle	Black/Yellow	Yellow Jacket	**22F216**
	1 13/40 in	39 ½ in	19 ½ in	2 ⅛ in	21,000 lb/Axle	Black/Orange	Checkers	**5MKJ8**
Gripper	1 ¼ in	36 in	16 ½ in	1 ⅝ in	10,000 lb/Axle	Gray/Yellow	Power First	**32RX20**
T Shaped	1 ⅜ in	20 in	19 ⅝ in	2 ¼ in	40,300 lb/Axle	Orange	Checkers	**32RX30**
	1 ⅜ in	24 in	22 ⅜ in	2 ⅜ in	40,300 lb/Axle	Orange/Yellow	Checkers	**32RX31**
	1 ⅜ in	24 in	22 ⅜ in	2 ⅜ in	40,300 lb/Axle	Orange/Yellow	Checkers	**32RX32**
	1 ⅜ in	38 ¾ in	19 ¾ in	2 ¼ in	40,300 lb/Axle	Orange/Yellow	Checkers	**32RX29**
Cross-Link Bridges for 5 Channel Hinged Cover Cable Ramps								
Dog Bone	1 ½ in	36 in	14 ⅛ in	2 ¼ in	21,000 lb/Axle	Orange	Checkers	**5MKK4**



32RX17

ADA Accessibility Cable Ramps

- Polyurethane material

ADA accessibility ramps cover cable and hose while complying with ADA requirements. They provide a more gradual slope than other cable ramps and are slip-resistant to ensure smooth crossover for wheelchairs and pedestrians with disabilities.

Channel Width	Channel Height	Length	W	H	Load Capacity	Color	Brand	Item No.
Accessibility Cable Ramps with Hinged Cover								
1 Number of Channels								
2 ¼ in	¾ in	39 ¾ in	28 ½ in	1 ¼ in	46,000 lb/Axle	Black/Orange	Checkers	**22F230**
2 Number of Channels								
1 ½ in	¾ in	39 ¾ in	28 ½ in	1 ¼ in	46,000 lb/Axle	Black/Orange	Checkers	**22F228**
3 Number of Channels								
1 ¼ in	¾ in	39 ¾ in	30 ⅜ in	1 ¼ in	54,000 lb/Axle	Black/Orange	Checkers	**22F226**
5 Number of Channels								
1 ¼ in	¾ in	39 ⅞ in	33 ⅜ in	1 ¼ in	68,000 lb/Axle	Black/Orange	Checkers	**22F224**
1 ⅜ in	1 ⅜ in	20 in	50 in	1 ⅞ in	21,000 lb/Axle	Black/Orange	Checkers	**32RX15**
	1 ⅜ in	20 in	50 in	1 ⅞ in	21,000 lb/Axle	Black	Checkers	**32RX16**
	1 ⅜ in	20 in	50 in	1 ⅞ in	21,000 lb/Axle	Blue/Orange	Checkers	**32RX17**
Accessibility Add-Ons for Cable Ramps								
1 Number of Channels								
1 ¼ in	1 ¼ in	47 ½ in	3 in	2 in	40,300 lb/Axle	Yellow	—	**3KWU7**
	1 ¼ in	38 ½ in	21 ¾ in	2 ¼ in	40,300 lb/Axle	Blue	—	**3KWU5**
3 Number of Channels								
1 ¼ in	1 ¼ in	38 ⅝ in	35 in	3 ¼ in	40,300 lb/Axle	Blue	Checkers	**32RX33**

4UDZ9

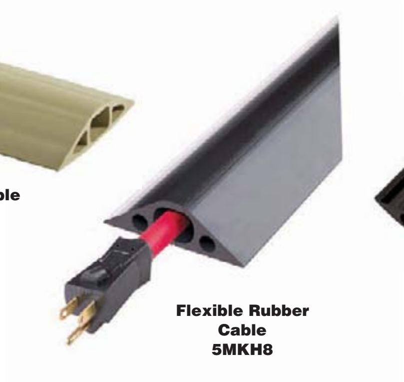
Cable & Hose Bridges

- Polyurethane material

Cable and hose bridges safeguard against vehicle traffic. They drop over cable and hose lines to protect them against pressure from heavy vehicles and help reduce maintenance and replacement costs.

Connection Style	Max. Cable Dia.	Length	W	H	Load Capacity	Color	Item No.
1-Channel Cable & Hose Bridges							
Dog Bone	3 ½ in	30 in	18 ¼ in	6 in	8,000 lb/Axle	Yellow	**3KUR8**
Modular Interlocking	3 in	27 in	17 ½ in	3 ⅞ in	23,700 lb/Axle	Yellow	**4UDZ9**
	4 ½ in	31 in	15 ⅝ in	5 ½ in	19,300 lb/Axle	Yellow	**4UEA1**
	6 ½ in	63 in	17 ½ in	8 ⅛ in	17,100 lb/Axle	Yellow	**4UEA2**

PVC Plastic Cable
5D683



Flexible Rubber
Cable
5MKH8

Carpet Traction
Kits
22F236

Disposable
Hospital
499A47

Light-Duty Pedestrian Cable Covers

Light-duty pedestrian cable covers protect power cords and electrical cable from incidental damage caused by light pedestrian traffic. They also provide a smooth surface to reduce tripping hazards.

Max. Cable Dia.	L	W	H	Material	BLACK Item No.	BEIGE Item No.	GRAY Item No.	BROWN Item No.	YELLOW Item No.
PVC Plastic Cable Floor Covers									
D-Line									
5⁄16 in	72 in	2 11⁄16 in	9⁄16"	PVC	**19RZ85**	—	—	—	—
3⁄8 in	72 in	3 1⁄4 in	9⁄16"	PVC	**19RZ86**	—	—	—	—
Hubbell Wiring Device-Kellems									
5⁄16 in	10 ft	2 3⁄4 in	17⁄32"	PVC	**5D684**	**5D683**	**5D685**	**5D690**	**5D691**
1⁄2 in	25 ft	3 in	3⁄4"	PVC	**5D687**	**5D692**	**5D696**	**5D694**	**2GTC5**
	60 in	3 in	3⁄4"	PVC	**5D686**	**5D693**	**5D697**	**5D695**	**5D688**
3⁄4 in	25 ft	3 1⁄4 in	1 1⁄64"	PVC	**5D698**	—	**5D699**	—	**2GTC6**
	60 in	3 1⁄4 in	1 1⁄64"	PVC	**5D689**	—	—	—	**5D700**
1 1⁄4 in	36 in	5 5⁄8 in	1 3⁄4"	PVC	**2GTC1**	—	—	—	**2GTC2**
	60 in	5 5⁄8 in	1 3⁄4"	PVC	**2GTC3**	—	—	—	**2GTC4**
Power First									
1⁄4 in	10 ft	2 3⁄4 in	17⁄32"	PVC	**4CEJ1**	**4CEH9**	**4CEJ2**	**4CEJ7**	**4CEJ8**
1⁄2 in	25 ft	3 in	3⁄4"	PVC	**4CEJ4**	**4CEJ9**	**4CEK4**	**4CEK2**	**4CEH7**
	60 in	3 in	3⁄4"	PVC	**4CEJ3**	**4CEK1**	**4CEK5**	**4CEK3**	**4CEJ5**
3⁄4 in	25 ft	3 1⁄4 in	1 3⁄64"	PVC	**4CEK6**	—	**4CEK7**	—	**4CEH8**
	60 in	3 1⁄4 in	1 3⁄64"	PVC	**4CEJ6**	—	—	—	**4CEK8**
1 1⁄4 in	60 in	5 1⁄4 in	1 39⁄64"	PVC	**4CEH5**	—	—	—	**4CEH6**

Max. Cable Dia.	L	W	H	Load Capacity	Material	Color	Brand	Item No.
Flexible Rubber Cable Floor Covers								
1 Number of Channels								
1⁄4 in	10 ft	3 in	7⁄16"	440 lb/Axle	Rubber	Black	Checkers	**5MKH5**
3⁄4 in	10 ft	3 1⁄4 in	1"	440 lb/Axle	Rubber	Black	Checkers	**5MKH8**
1 in	60 in	5 3⁄4 in	1 1⁄2"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ3**
1 1⁄4 in	60 in	6 in	1 1⁄2"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ4**
1 1⁄2 in	60 in	6 in	2"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ5**
2 Number of Channels								
1⁄4 in	10 ft	3 in	7⁄16"	440 lb/Axle	Rubber	Black	Checkers	**5MKH6**
3⁄4 in	60 in	5 3⁄4 in	1"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ1**
	10 ft	5 3⁄4 in	1 1⁄8"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ2**
3 Number of Channels								
5⁄16 in	10 ft	3 1⁄2 in	3⁄4"	440 lb/Axle	Rubber	Black	Checkers	**5MKH7**
7⁄16 in	10 ft	4 1⁄2 in	1"	440 lb/Axle	Rubber	Black	Checkers	**5MKJ0**
3⁄4 in	5 ft	3 1⁄4 in	1"	440 lb/Axle	Rubber	Black	Checkers	**5MKH9**

W	L	W	Material	Color	Brand	Item No.
Carpet Traction Kits for Flexible Rubber Cable Floor Covers						
1⁄4 in	10 ft	1⁄4 in	—	Black	Checkers	**22F237**
	60 in	1⁄4 in	—	Black	Checkers	**22F236**
Disposable Hospital Cable Floor Covers						
8 in	24 in	8 in	PVC	Bright Orange	Sandel	**499A46**
	24 in	8 in	PVC	Glow in the Dark Bright Orange	Sandel	**499A49**
	36 in	8 in	PVC	Bright Orange	Sandel	**499A47**
	36 in	8 in	PVC	Glow in the Dark Bright Orange	Sandel	**499A50**
	125 ft	8 in	PVC	Bright Orange	Sandel	**499A48**
10 in	24 in	10 in	PVC	Bright Orange	Sandel	**499A51**
	36 in	10 in	PVC	Bright Orange	Sandel	**499A52**
12 in	24 in	12 in	PVC	Bright Orange	Sandel	**499A53**
	36 in	12 in	PVC	Bright Orange	Sandel	**499A54**
	100 ft	12 in	PVC	Bright Orange	Sandel	**55VC64**
Fabric Hook-and-Loop Cable Floor Covers						
4 in	12 ft	4 in	Nylon	Yellow	Safcord	**42XN11**
	72 in	4 in	Nylon	Yellow	Safcord	**42XN10**
	72 in	4 in	Nylon	Black	Safcord	**63LJ40**

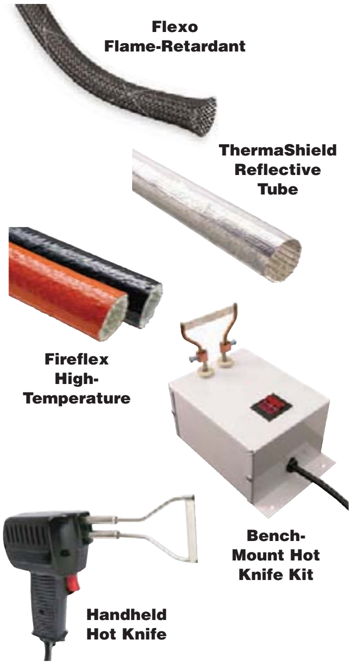
CableTrak Hose and Cable Carrier System

- Easy assembly with flat-blade screwdriver
- Install vertically or horizontally
- Fiberglass-reinforced, nonabrasive black nylon

Flexible, self-lubricating carriers guide and protect hoses and cables installed between fixed and moving sections of a machine. Cable is installed through the carrier's flip-top for minimal abrasion. Excellent high-speed performance.

1XJG8

Outside W	H	Cavity Width	Cavity Height	Mfr. Model	CABLETRAK(R) WITH BRACKETS L	CABLETRAK(R) WITH BRACKETS Item No.	CABLETRAK(R) L	CABLETRAK(R) Item No.	BRACKET KIT (QTY.: 2) Item No.
1.0 in	1.0 in	0.6 in	0.8 in	HCT10114	48 in	**1XJG8**	12 in	**1XJG7**	**1XJK7**
1.4 in	1.0 in	1 in	0.8 in	HCT10219	48 in	**1XJH2**	—	—	**1XJK8**
2.1 in	1.6 in	1.5 in	1 in	HCT16119	48 in	**1XJH4**	12 in	**1XJH3**	**1XJK9**
2.1 in	1.6 in	1.5 in	1 in	HCT16134	54 in	**1XJH7**	12 in	**1XJH5**	**1XJK9**
2.9 in	1.6 in	2.3 in	1 in	HCT16219	48 in	**1XJJ1**	12 in	**1XJH9**	**1XJL1**
2.9 in	1.6 in	2.3 in	1 in	HCT16234	54 in	**1XJJ3**	12 in	**1XJJ2**	**1XJL1**
3.7 in	1.6 in	3.1 in	1 in	HCT16334	54 in	**1XJJ5**	12 in	**1XJJ4**	**1XJL2**
4.7 in	1.6 in	4.1 in	1 in	HCT16434	54 in	**1XJJ7**	12 in	**1XJJ6**	**1XJL3**
3.7 in	2.5 in	2.6 in	1.8 in	HCT25134	54 in	**1XJJ9**	12 in	**1XJJ8**	**1XJL4**
5.4 in	2.5 in	4.3 in	1.8 in	HCT25234	54 in	**1XJK2**	12 in	**1XJK1**	**1XJL5**
5.4 in	2.5 in	4.3 in	1.8 in	HCT25247	60 in	**1XJK4**	12 in	**1XJK3**	**1XJL5**
7.7 in	2.5 in	6.6 in	1.8 in	HCT25347	60 in	**1XJK6**	12 in	**1XJK5**	**1XJL6**



Braided Sleeving for Wire and Cable Management

TECHFLEX Braided Sleeving Products

- UL Recognized

For bundling, managing, and protecting wires, cables, and hoses. Most are black (Flexo Flame-Retardant has white tracer). ThermaShield are silver and FireFlex are red. Most types cut cleanly with a hot knife. Flexo F6 Self-Wrap, DuraFlex, ThermaShield tubes and wrap, and Flexo Clean-Cut cut easily with scissors or knife. Insultherm cuts with scissors only.

DURAFLEX HARSH ENVIRONMENT

- Thick, tightly woven nylon
- Resists UV, chemicals, gasoline, salt, snags, cuts, abrasion, and penetration
- Deflects high-pressure hose ruptures
- MSHA

Rot resistant for continuous outdoor use.

WELD WRAP

- Coated fiberglass
- Withstands temps. to 1000°F
- Resists abrasion and punctures
- FED 191/5093

Protects hoses and wiring from molten welding splatter and sparks.

THERMASHIELD REFLECTIVE

- Withstands temps. to 500°F
- Resists gasoline, engine chemicals, cuts, and abrasion

Aluminized heat shield is bonded to tightly braided, insulating fiberglass. Wrap uses a high-temp. adhesive.

DURAWRAP HARSH ENVIRONMENT

- Tightly woven ballistic nylon
- Hook-and-loop closure
- Resists UV, abrasion, gasoline, engine chemicals, and salt water
- Deflects high-pressure hose ruptures

Overlarge sleeving can be used over chain as a scuff preventive.

FIREFLEX HIGH-TEMPERATURE

- Silicone-jacketed fiberglass
- Nonconductive
- Stable to 500°F
- Resists abrasion and punctures

0.08"-thick sleeving bends to follow tight curves. For racing vehicles and similarly demanding industries.

GORILLA SLEEVE

- Flat-filament nylon
- Resists UV, gasoline, engine chemicals, and salt water

0.046" thick for extreme abrasion and cut resistance.

Dia. Range	Inside Dia.	L	Item No.	L	Item No.	L	Item No.
Flexo Expandable, PET							
0.090 in to 0.250 in	⅛ in	10 ft	**2RMC6**	100 ft	**2RLL3**	500 ft	**2RLL2**
0.120 in to 0.440 in	¼ in	10 ft	**2RLL4**	100 ft	**1UXW6**	500 ft	**1UXW5**
0.180 in to 0.630 in	⅜ in	10 ft	**2RMC7**	50 ft	**1UXW8**	500 ft	**1UXW7**
0.250 in to 0.750 in	½ in	10 ft	**2RLL5**	50 ft	**1UXY1**	500 ft	**1UXW9**
0.500 in to 1.250 in	¾ in	10 ft	**2RMC8**	50 ft	**1UXY3**	250 ft	**1UXY2**
0.750 in to 1.750 in	1 ¼ in	10 ft	**2RLL6**	50 ft	**1UXY5**	250 ft	**1UXY4**
1.000 in to 2.500 in	1 ½ in	10 ft	**2RMD1**	50 ft	**2RLL7**	200 ft	**2RMC9**
1.250 in to 2.750 in	1 ¾ in	10 ft	**2RLL9**	50 ft	**2RMD2**	200 ft	**2RLL8**
1.500 in to 3.500 in	2 in	10 ft	**2RMD3**	50 ft	**1UXY7**	200 ft	**2RME9**
1.500 in to 3.500 in	2 in	10 ft	**2RME7**	50 ft	**2RME8**	200 ft	**1UXY6**
0.090 in to 0.250 in	⅛ in	10 ft	**2RMD4**	100 ft	**2RMD5**	500 ft	**2RMD6**
0.120 in to 0.440 in	¼ in	10 ft	**2RMD7**	100 ft	**1UXY8**	500 ft	**2RMD8**
0.180 in to 0.630 in	⅜ in	10 ft	**2RMD9**	50 ft	**1UXY9**	500 ft	**2RME1**
0.250 in to 0.750 in	½ in	10 ft	**2RME2**	50 ft	**1UXZ1**	500 ft	**2RLN1**
0.500 in to 1.250 in	¾ in	10 ft	**2RME3**	50 ft	**1UXZ2**	250 ft	**2RLN2**
0.750 in to 1.750 in	1 ¼ in	10 ft	**2RME4**	50 ft	**1UXZ3**	250 ft	**2RLN3**
1.000 in to 2.500 in	1 ½ in	10 ft	**2RLN4**	50 ft	**2RLN5**	200 ft	**2RLN6**
1.250 in to 2.750 in	1 ¾ in	10 ft	**2RME5**	50 ft	**1UXZ4**	200 ft	**2RME6**
Flexo Heavy Wall, 15-mil Expandable, PET							
0.180 in to 0.750 in	⅜ in	10 ft	**2RMF3**	100 ft	**1UYA1**	500 ft	**2RMF4**
0.310 in to 1.000 in	⅝ in	10 ft	**2RMF5**	75 ft	**1UYA2**	250 ft	**2RMF6**
0.500 in to 1.500 in	1 in	10 ft	**2RLP7**	50 ft	**1UYA3**	250 ft	**2RLP8**
0.750 in to 2.000 in	1 ½ in	10 ft	**2RLP9**	50 ft	**1UYA4**	250 ft	**2RMF7**
1.500 in to 3.000 in	2 in	10 ft	**2RMF8**	50 ft	**2RLR1**	200 ft	**2RMF9**
2.000 in to 4.000 in	3 in	10 ft	**2RLR2**	50 ft	**2RLR3**	100 ft	**2RMG1**
2.500 in to 5.500 in	4 in	10 ft	**2RLR4**	50 ft	**2RLR5**	100 ft	**2RMG2**
Flexo Wrap, Hook-And-Loop, Expandable, PET							
0.250 in to 0.500 in	½ in	25 ft	**2RLR6**	100 ft	**2RMG3**	—	—
0.500 in to 0.750 in	¾ in	25 ft	**1UYA5**	100 ft	**2RLR7**	—	—
1.000 in to 1.250 in	1 ¼ in	25 ft	**1UYA6**	100 ft	**2RMG4**	—	—
1.500 in to 2.000 in	2 in	25 ft	**1UYA7**	100 ft	**2RMG5**	—	—
Flexo F6, Semirigid, Self Wrap, Nonexpandable, PET							
0.060 in to 0.130 in	⅛ in	25 ft	**2RLR8**	100 ft	**2RMG7**	400 ft	**2RMG6**
0.130 in to 0.250 in	¼ in	20 ft	**2RMG9**	100 ft	**1UYA8**	200 ft	**2RMG8**
0.250 in to 0.380 in	⅜ in	15 ft	**2RLT1**	100 ft	**2RLR9**	150 ft	**2RMH1**
0.310 in to 0.500 in	½ in	10 ft	**2RLT3**	75 ft	**1UYA9**	150 ft	**2RLT2**
0.500 in to 0.750 in	¾ in	96 in	**2RLT4**	50 ft	**1UYB1**	100 ft	**2RMH2**
0.750 in to 1.000 in	1 in	84 in	**2RLT5**	50 ft	**1UYB2**	100 ft	**2RMH3**
1.250 in to 1.500 in	1 ½ in	48 in	**2RLT6**	25 ft	**1UYB3**	75 ft	**2RMH4**
1.750 in to 2.000 in	2 in	48 in	**2RMH6**	25 ft	**2RLT7**	50 ft	**2RMH5**
Insultherm 1200°F, Expandable, Fiberglass							
0.180 in to 0.310 in	¼ in	10 ft	**2RLU1**	25 ft	**2RLT9**	100 ft	**2RLT8**
0.380 in to 0.630 in	⅜ in	10 ft	**2RMH8**	25 ft	**2RMH7**	100 ft	**1UYB4**
0.500 in to 0.750 in	½ in	10 ft	**2RMJ1**	25 ft	**2RMH9**	100 ft	**1UYB5**
0.630 in to 0.880 in	⅝ in	10 ft	**2RLU3**	25 ft	**2RLU2**	100 ft	**1UYB6**
0.750 in to 1.130 in	¾ in	10 ft	**2RLU5**	25 ft	**2RLU4**	100 ft	**1UYB7**
1.000 in to 1.630 in	1 in	10 ft	**2RLU7**	25 ft	**2RLU6**	100 ft	**1UYB8**
1.500 in to 1.750 in	1 ½ in	10 ft	**2RLU8**	25 ft	**2RMJ3**	50 ft	**2RMJ2**
Duraflex Cut Resistant, Economical, Flexible, Harsh Environment, Heavy Duty, Penetration Resistant, Rot Resistant, Snag Resistant, Nonexpandable, Nylon							
0.500 in to 0.710 in	11⁄16 in	10 ft	**2RMK4**	50 ft	**2RMK5**	100 ft	**2RLV7**
0.600 in to 0.830 in	13⁄16 in	10 ft	**2RMK6**	50 ft	**2RMK7**	100 ft	**2RLV8**
0.850 in to 1.000 in	1 in	10 ft	**2RMK8**	50 ft	**2RLV9**	100 ft	**2RMK9**
1.000 in to 1.130 in	1 ⅛ in	10 ft	**2RLW1**	50 ft	**2RML1**	100 ft	**2RLW2**
1.130 in to 1.250 in	1 ¼ in	10 ft	**2RLW3**	50 ft	**2RLW4**	100 ft	**2RML2**
1.350 in to 1.590 in	1 9⁄16 in	10 ft	**2RML3**	50 ft	**2RLW5**	100 ft	**2RLW6**
1.600 in to 1.750 in	1 ¾ in	10 ft	**2RML4**	50 ft	**2RLW7**	100 ft	**2RML5**
1.950 in to 2.070 in	2 1⁄16 in	10 ft	**2RLW8**	50 ft	**2RML6**	100 ft	**2RLW9**
2.250 in to 2.380 in	2 ⅜ in	10 ft	**2RML7**	50 ft	**2RLX1**	100 ft	**2RML8**
2.650 in to 2.860 in	2 ⅞ in	10 ft	**2RLX2**	50 ft	**2RLX3**	100 ft	**2RLX4**
3.100 in to 3.340 in	3 ¾ in	10 ft	**2RLX5**	50 ft	**2RLX6**	100 ft	**2RML9**
3.400 in to 3.660 in	3 11⁄16 in	10 ft	**2RLX7**	50 ft	**2RLX8**	100 ft	**2RLX9**
Hot Knives							
Bench-Mount		—	—	—	—	—	**2RMT9**
Handheld		—	—	—	—	—	**2RMC5**

Dia. Range	Inside Dia.	L	Item No.
Weld Wrap with Hook-and-Loop, 1000°F, Nonexpandable, Fiberglass			
0.500 in to 1.000 in	1 in	25 ft	**2RMT2**
1.000 in to 1.500 in	1 ½ in	25 ft	**2RMT3**
1.500 in to 2.000 in	2 in	25 ft	**2RMT4**
2.500 in to 3.000 in	3 in	25 ft	**2RMT5**
ThermaShield Tubes, Nonexpandable, Fiberglass			
0.250 in to 0.500 in	½ in	50 ft	**2RMP7**
0.380 in to 0.630 in	⅝ in	50 ft	**2RMP8**
0.500 in to 0.750 in	¾ in	50 ft	**2RMP9**
0.630 in to 0.880 in	⅞ in	50 ft	**2RMR1**
0.750 in to 1.000 in	1 in	50 ft	**2RMR2**
1.000 in to 1.250 in	1 ¼ in	50 ft	**2RMR3**
1.250 in to 1.500 in	1 ½ in	50 ft	**2RMR4**
1.500 in to 1.750 in	1 ¾ in	25 ft	**2RMR5**
1.750 in to 2.000 in	2 in	25 ft	**2RLZ7**
2.250 in to 2.500 in	2 ½ in	25 ft	**2RLZ8**
ThermaShield Wrap, Nonexpandable, Fiberglass, Adhesive Seal			
0.130 in to 0.250 in	¼ in	48 in	**2RLZ9**
0.250 in to 0.380 in	⅜ in	48 in	**2RMR6**
0.380 in to 0.500 in	½ in	48 in	**2RMR7**
0.500 in to 0.750 in	¾ in	48 in	**2RMA1**
0.750 in to 1.000 in	1 in	48 in	**2RMR8**
1.000 in to 1.250 in	1 ¼ in	48 in	**2RMA2**
1.250 in to 1.500 in	1 ½ in	48 in	**2RMR9**
1.750 in to 2.000 in	2 in	48 in	**2RMA3**

Dia. Range	Inside Dia.	L	Item No.	L	Item No.
DuraWrap Harsh Environment, Heavy Duty, Retro Fit Installation, Hook-And-Loop, Nonexpandable, Nylon					
0.750 in to 1.000 in	1 in	10 ft	**2RMJ5**	25 ft	**2RMJ4**
1.250 in to 1.500 in	1 ½ in	10 ft	**2RMJ7**	25 ft	**2RMJ6**
1.750 in to 2.000 in	2 in	10 ft	**2RMJ8**	25 ft	**2RLU9**
2.250 in to 2.500 in	2 ½ in	10 ft	**2RMJ9**	25 ft	**2RLV1**
2.750 in to 3.000 in	3 in	10 ft	**2RMK1**	25 ft	**2RLV2**
3.250 in to 3.500 in	3 ½ in	10 ft	**2RMK2**	—	—
3.750 in to 4.000 in	4 in	10 ft	**2RMK3**	25 ft	**2RLV4**
4.250 in to 4.500 in	4 ½ in	10 ft	**2RLV6**	25 ft	**2RLV5**
DuraWrap Harsh Environment, Heavy Duty, Retro Fit Installation, Hook-and-Loop, Nonexpandable, Nylon					
3.250 in to 3.500 in	3 ½ in	—	—	25 ft	**2RLV3**
Fireflex Extreme Temperature Resistant, Moisture Resistant, Nonexpandable, Fiberglass					
0.130 in to 0.250 in	¼ in	60 in	**2RLY2**	50 ft	**2RLY1**
0.250 in to 0.380 in	⅜ in	60 in	**2RMN1**	50 ft	**2RLY3**
0.380 in to 0.500 in	½ in	60 in	**2RMN3**	50 ft	**2RMN2**
0.500 in to 0.630 in	⅝ in	60 in	**2RMN5**	50 ft	**2RMN4**
0.630 in to 0.750 in	¾ in	60 in	**2RLY4**	50 ft	**2RMN6**
0.750 in to 0.880 in	⅞ in	60 in	**2RMN7**	50 ft	**2RLY5**
0.880 in to 1.000 in	1 in	60 in	**2RLY7**	50 ft	**2RLY6**
1.000 in to 1.250 in	1 ¼ in	60 in	**2RMN8**	50 ft	**2RLY8**
1.250 in to 1.500 in	1 ½ in	60 in	**2RMN9**	50 ft	**2RLY9**
1.500 in to 1.750 in	1 ¾ in	60 in	**2RMP1**	25 ft	**2RLZ1**
1.750 in to 2.000 in	2 in	60 in	**2RLZ2**	25 ft	**2RMP2**
2.000 in to 2.250 in	2 ¼ in	60 in	**2RLZ3**	25 ft	**2RMP3**
2.250 in to 2.500 in	2 ½ in	60 in	**2RMP5**	25 ft	**2RMP4**
2.500 in to 2.750 in	2 ¾ in	60 in	**2RLZ5**	25 ft	**2RLZ4**
2.750 in to 3.000 in	3 in	60 in	**2RMP6**	25 ft	**2RLZ6**
Flexo Clean-Cut, Expandable, PET					
0.120 in to 0.250 in	⅛ in	100 ft	**2RLN7**	500 ft	**2RLN8**
0.150 in to 0.440 in	¼ in	100 ft	**1UXZ5**	500 ft	**2RMF1**
0.180 in to 0.630 in	⅜ in	50 ft	**1UXZ6**	500 ft	**2RLN9**
0.250 in to 0.750 in	½ in	50 ft	**1UXZ7**	500 ft	**2RLP1**
0.630 in to 1.000 in	¾ in	50 ft	**1UXZ8**	250 ft	**2RLP2**
0.750 in to 1.190 in	1 in	50 ft	**2RLP3**	250 ft	**2RLP4**
1.000 in to 1.500 in	1 ¼ in	50 ft	**1UXZ9**	250 ft	**2RMF2**
1.250 in to 2.000 in	1 ½ in	50 ft	**2RLP5**	250 ft	**2RLP6**
Gorilla Sleeve, Expandable, Nylon					
0.380 in to 0.630 in	½ in	10 ft	**2RMA4**	100 ft	**2RPD2**
0.630 in to 1.000 in	¾ in	10 ft	**2RPD3**	50 ft	**2RMA5**
0.750 in to 1.250 in	1 in	10 ft	**2RMA6**	50 ft	**2RPD4**
1.000 in to 1.500 in	1 ¼ in	10 ft	**2RPD5**	50 ft	**2RMT1**
1.500 in to 2.000 in	1 ¾ in	60 in	**2RPD6**	25 ft	**2RMA7**
1.750 in to 2.250 in	2 in	60 in	**2RMA8**	25 ft	**2RPD7**

Corrugated Split-Loom Tubing

Provides flexibility and chemical resistance to solvents. Impact-resistant at low temperatures. Designed for electrical, machinery, and building harness wiring. For use in various industrial, medical, and electrical applications.

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
Black			
¼ in	25 ft	**16Y250**	**16Y261**
	100 ft	**16Y245**	**16Y256**
5/16 in	25 ft	**16Y251**	—
	100 ft	**16Y246**	**16Y257**
⅜ in	25 ft	**16Y252**	**16Y263**
	100 ft	**16Y247**	**16Y258**

** 1¼" size are 50 ft.*

Connection Type/Size	Item No.
Tee Fittings, Black Nylon, Pkg. of 10	
½ in x ¼ in (Without Thread) Industrial, Medical and Electrical Applications, Provide Flexibility	**19A641**
½ in x 5/16 in (Without Thread) Industrial, Medical and Electrical Applications, Provide Flexibility	**19D609**

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
½ in	25 ft	**16Y253**	**16Y264**
	100 ft	**16Y248**	**16Y259**
¾ in	25 ft	**16Y254**	**16Y265**
	100 ft	**16Y249**	**16Y260**
1 ¼ in	50 ft	**16Y255**	**16Y266**

16Y245

19A641

Corrugated Tubing and Fittings

Connect or disconnect these quick-release fittings with no tools required. Designed for use in any electrical installations that require a watertight seal and quick connection. UL Listed and CSA Certified.

Description	¼ in Item No.	5/16 in Item No.	⅜ in Item No.	½ in Item No.	¾ in Item No.	1 in Item No.	1 ¼ in Item No.	1 ½ in Item No.	2 in Item No.
Nylon Fittings									
90° Elbow	**25D318**	**25D319**	**25D320**	**25D321**	**25D322**	**25D323**	**25D324**	—	**25D325**
Locknut, Qty. 10; (5 on 1¾")	**25D342**	**25D344**	—	—	**25D345**	**25D346**	**25D347**	**25D348**	**25D349**
Straight Connector	**25D310**	**25D311**	**25D312**	**25D313**	**25D314**	**25D315**	**25D316**	—	**25D317**
Support, Qty. 10	**25D326**	**25D327**	**25D328**	**25D329**	**25D330**	**25D331**	**25D332**	—	**25D333**
Support Top, Qty. 10	**25D335**	—	**25D336**	**25D337**	**25D338**	**25D339**	**25D340**	—	**25D341**
Polyamide 6 Tubing, Unslit									
10 ft	**25D285**	**25D288**	**25D291**	**25D294**	**25D297**	**25D301**	**25D304**	—	**25D307**
25 ft	**25D286**	**25D289**	**25D292**	**25D295**	**25D298**	**25D302**	**25D305**	—	**25D308**
45 ft	**25D287**	**25D290**	**25D293**	**25D296**	**25D299**	**25D303**	**25D306**	—	**25D309**

25D318

25D326

25D312

25D285

Drossbach

Corrugated Split-Loom Tubing

Provides protection and organization to wires, cables, and hoses. Corrugated for flexibility and easy installation. Abrasion-, fluid-, and weather-resistant.

Description/ Special Features	Item No.
Split Loom Installation Tools	
Loom Tool for ¼ in to 7/16 in Conduit	**25D279**
Loom Tool for ½ in to ⅝ in Conduit	**25D280**
Loom Tool for ¾ in to ⅞ in Conduit	**25D281**
Loom Tool for 1in to 1¼ in Conduit	**25D282**
Loom Tool for 1½ in to 2 in Conduit	**25D283**

Nom. Size	Tubing Length	POLYETHYLENE Item No.	NYLON Item No.
Tubing			
¼ in	3,200 ft	**25D255**	**25D266**
¼ in	100 ft	—	**25D274**
⅜ in	1,900 ft	**25D256**	**25D267**
⅜ in	100 ft	—	**25D275**
½ in	1,100 ft	**25D257**	**25D268**
½ in	100 ft	—	**25D276**
⅝ in	800 ft	**25D258**	**25D269**
¾ in	100 ft	—	**25D277**
¾ in	550 ft	**25D259**	**25D270**
1 in	50 ft	—	**25D278**
1 ½ in	150 ft	**25D262**	**25D273**
1 ¼ in	250 ft	**25D261**	**25D272**
1 in	300 ft	**25D260**	**25D271**
2 in	100 ft	**25D263**	—
2 ½ in	500 ft	**25D264**	—
3 ½ in	300 ft	**25D265**	—

25D279

25D255

25D274

Spiral Wrap
1LEZ3

Pan-Wrap™
1LEY8

PANDUIT®

Wire Protection Wrap

SPIRAL WRAP
- Natural color
- Temp. range: -40° to 122°F

Allows breakouts of single/ multiple wires. Great for harnessing multiple cables into a single manageable bundle. Each roll includes installation tool. UL Recognized.

PAN-WRAP™
- Black color
- Temp. range: -40° to 122°F

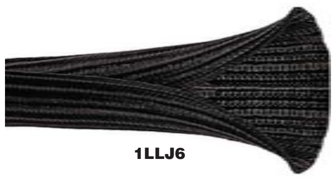
Slot pattern provides improved flexibility and abrasion protection in any application. Wall design facilitates cable breakouts. UL Recognized.

Pan-Wrap™ Installation Tools
- Black color
- Temp. range: -40° to 122°F

180° opening allows easy loading of max. bundle diameters to considerably speed Pan-Wrap™ installation.

W	Spiral Wrap Length	Spiral Wrap Dia. Range	Mfr. Model	Item No.
Spiral Wrap, Polyethylene				
¼ in	100 ft	0.1875 in to 2 in	T25F-C	**1LEZ3**
½ in	100 ft	0.3125 in to 3 in	T38F-C	**1LEZ4**
½ in	100 ft	0.3750 in to 4 in	T50F-C	**1LEZ5**
¾ in	100 ft	0.6250 in to 5 in	T75F-C	**1LEZ6**
1 in	100 ft	0.8750 in to 6 in	T100F-C	**1LEZ7**
Pan-Wrap™, Polyethylene				
½ in	200 ft	0.430 in to 0.550 in	PW50F-T20	**1LEY8**
¾ in	100 ft	0.550 in to 0.810 in	PW75F-C20	**1LEY9**
1 in	100 ft	0.810 in to 1.130 in	PW100F-C20	**1LEZ1**
1 ½ in	50 ft	1.130 in to 1.630 in	PW150F-L	**1LEZ2**

For Use With	Mfr. Model	Item No.
Pan-Wrap™ Installation Tools		
Mfr. No. PW50F-T20	PWT50	**1LEL5**
Mfr. No. PW75F-C20	PWT75	**1LEL6**
Mfr. No. PW100F-C20	PWT100	**1LEY6**
Mfr. No. PW150F-L20	PWT150	**1LEY7**



1LLJ6

PANDUIT®

Braided Expandable Sleeving

- Black color
- 100-ft. lengths

Provides continuous abrasion protection for wires, cables, hoses, and tubing. Highly flexible open weave will not trap heat or humidity, and allows irregular shapes. Lightweight and durable protection. UL Recognized.

Material of Construc.	Inside Dia.	Mfr. Model	Item No.
PET	½ in	SE50P-CR0	**1LLJ6**
PET	½ in	SE50PFR-CR0	**1LLJ7**

40J770

Cable Tie Assortment Kits

- Nylon 6/6 material

Kits include multiple sizes, colors, and quantities, so they can be used for a variety of wire and cable management and identification needs.

No. of Pieces	Locking Style	Outdoor Use	Includes	Brand	Item No.
Assorted Colors					
100	Stainless Steel Barb	No	(10) 7.3 in Black, (10) 7.3 in Blue, (10) 7.3 in Brown, (10) 7.3 in Gray, (10) 7.3 in Green, (10) 7.3 in Orange, (10) 7.3 in Purple, (10) 7.3 in Red, (10) 7.3 in White, (10) 7.3 in Yellow	Ty-Rap	**30EK71**
100	Plastic Pawl	No	(20) 8.0 in Blue, (20) 8.0 in Fluorescent Green, (20) 8.0 in Fluorescent Orange, (20) 8.0 in Fluorescent Pink, (20) 8.0 in Yellow	Ty-Rap	**3KLL2**
500	Plastic Pawl	No	(100) 3.9 in Yellow, (100) 7.9 in Blue, (100) 7.9 in Green, (100) 7.9 in Orange, (100) 3.9 in Red	Power First	**40J770**
500	Plastic Pawl	Yes	(100) 4.0 in Natural, (100) 6.0 in Natural, (100) 8.0 in Natural, (25) 4.0 in Black, (25) 4.0 in Green, (25) 4.0 in Red, (25) 4.0 in Yellow, (25) 8.0 in Black, (25) 8.0 in Green, (25) 8.0 in Red, (25) 8.0 in Yellow	GB	**50HY96**
500	Plastic Pawl	No	(100) 4.0 in Pink, (100) 4.0 in Yellow, (100) 7.0 in Blue, (100) 7.0 in Green, (100) 7.0 in Orange	Ty-Rap	**9AUK1**
650	Plastic Pawl	Yes	(100) 4.0 in Natural, (300) 8.0 in Natural, (50) 11.0 in Natural, (50) 4.0 in Black, (50) 4.0 in Green, (50) 4.0 in Red, (50) 4.0 in Yellow	GB	**50HY97**
Black					
200	Plastic Pawl	Yes	(100) 4.0 in Black, (100) 8.0 in Black	GB	**50HY99**
650	Plastic Pawl	Yes	(300) 3.9 in Black, (300) 7.9 in Black, (50) 11.8 in Black	Power First	**40J772**
Natural					
650	Plastic Pawl	No	(300) 3.9 in Natural, (300) 7.9 in Natural, (50) 11.8 in Natural	Power First	**40J771**

36J150

All Purpose Nylon Cable Ties

All purpose cable ties bundle and secure wire and cable in general applications where specialized cable ties are not required, such as facility maintenance, housekeeping, and janitorial. Fine adjustment cable ties have a stainless steel barb that can be locked at any point along the strap to adjust to the exact size of a bundle

Nom. L	Nominal Max. Bundle Dia.	W	Brand	Black Outdoor Use	Black Item No.	Black Pkg. Qty.	Natural Outdoor Use	Natural Item No.	Natural Pkg. Qty.
All Purpose Nylon Cable Ties									
18 lb, Miniature, Nylon 6/6									
4 ½ in	1 in	0.12 in	Panduit	Yes	**1LEW3**	100	No	**1LEW2**	100
4 in	4 in	0.1 in	Panduit	Yes	**21F263**	100	No	**21F262**	100
4 in	4 in	0.1 in	Panduit	Yes	**21F265**	1000	No	**21F264**	1000
4 in	4 in	0.1 in	Power First	Yes	**36J128**	100	No	**36J127**	100
4 in	4 in	0.1 in	Power First	Yes	**36J130**	1000	No	**36J129**	1000
6 ½ in	1 ½ in	0.1 in	Power First	Yes	**36J132**	100	No	**36J131**	100
8 in	2 in	0.1 in	Panduit	Yes	**21F271**	100	No	**21F270**	100
8 in	2 in	0.1 in	Panduit	Yes	**21F273**	1000	No	**21F272**	1000
8 in	2 in	0.1 in	Power First	Yes	**36J134**	100	No	**36J133**	100
8 in	2 in	0.1 in	Power First	Yes	**36J136**	1000	No	**36J135**	1000
40 lb, Intermediate, Nylon 6/6									
6 in	1 ½ in	0.14 in	Panduit	No	**21F258**	100	No	**21F257**	100
6 in	1 ½ in	0.14 in	Panduit	No	**21F260**	1000	No	**21F259**	1000
6 in	1 ½ in	0.14 in	Power First	Yes	**36J138**	100	No	**36J137**	100
6 in	1 ½ in	0.14 in	Power First	—	—	—	No	**36J139**	1000
6 ½ in	1 ½ in	0.17 in	Panduit	Yes	**1LEW5**	100	No	**1LEW4**	100
8 in	2 in	0.14 in	Panduit	Yes	**21F267**	100	No	**21F266**	100
8 in	2 in	0.14 in	Panduit	Yes	**21F269**	1000	No	**21F268**	1000
10 in	2 ¾ in	0.14 in	Power First	Yes	**36J142**	100	No	**36J141**	100
10 in	2 ¾ in	0.14 in	Power First	Yes	**36J144**	1000	No	**36J143**	1000
11 in	3 in	0.14 in	Power First	Yes	**36J146**	100	No	**36J147**	500
11 in	3 in	0.14 in	Power First	Yes	**36J148**	500	—	—	—
11 ½ in	3 in	0.14 in	Panduit	No	**21F279**	100	No	**21F278**	100
11 ½ in	3 in	0.14 in	Panduit	Yes	**21F281**	1000	No	**21F280**	1000
11 ½ in	3 in	0.14 in	Power First	—	—	—	No	**36J145**	100
14 ½ in	4 in	0.14 in	Panduit	Yes	**21F287**	100	No	**21F286**	100
14 ½ in	4 in	0.14 in	Panduit	Yes	**21F289**	1000	No	**21F288**	1000
50 lb, Standard, Nylon 6/6									
7 ½ in	1 ¾ in	0.19 in	Panduit	No	**21F277**	1000	No	**21F274**	100
7 ½ in	1 ¾ in	0.19 in	Panduit	Yes	**21F275**	100	No	**21F276**	1000
8 in	2 in	0.19 in	Power First	Yes	**36J150**	100	No	**36J149**	100
8 in	2 in	0.19 in	Power First	Yes	**36J152**	1000	No	**36J151**	1000
8 ½ in	2 in	0.22 in	Panduit	Yes	**1LEW7**	100	No	**1LEW6**	100
11 ½ in	3 in	0.19 in	Panduit	No	**21F283**	100	No	**21F282**	100
11 ½ in	3 in	0.19 in	Panduit	Yes	**21F285**	1000	No	**21F284**	1000
12 in	3 ¼ in	0.19 in	Power First	Yes	**36J154**	100	No	**36J153**	100
12 in	3 ¼ in	0.19 in	Power First	Yes	**36J156**	500	No	**36J155**	500
14 ½ in	4 in	0.19 in	Panduit	Yes	**21F292**	1000	No	**21F290**	100
14 ½ in	4 in	0.19 in	Panduit	—	—	—	No	**21F291**	1000
15 in	4 in	0.19 in	Power First	Yes	**36J158**	100	No	**36J157**	100
15 in	4 in	0.19 in	Power First	Yes	**36J160**	500	No	**36J159**	500
75 lb, Standard, Nylon 6/6									
12 ½ in	3 ¼ in	0.22 in	Panduit	Yes	**1LEW9**	100	No	**1LEW8**	100
15 ½ in	4 ¼ in	0.22 in	Panduit	Yes	**1LEX4**	50	No	**1LEX3**	50
120 lb, Heavy Duty, Nylon 6/6									
8 in	2 in	0.3 in	Power First	Yes	**36J162**	100	No	**36J161**	100
12 in	3 ¼ in	0.3 in	Power First	Yes	**36J164**	100	No	**36J163**	100
14 ½ in	4 in	0.3 in	Power First	—	—	—	No	**36J165**	100
14 ½ in	4 in	0.48 in	Panduit	No	**148L50**	250	—	—	—
15 in	4 in	0.3 in	Power First	Yes	**36J166**	100	—	—	—
15 ½ in	4 ¼ in	0.33 in	Panduit	Yes	**1LEX2**	25	No	**1LEX1**	25
18 in	4 ½ in	0.3 in	Power First	Yes	**36J168**	50	No	**36J167**	50
21 ½ in	6 in	0.31 in	Power First	—	—	—	No	**36J169**	50
22 in	6 in	0.3 in	Panduit	Yes	**21F294**	50	No	**21F293**	50
24 ½ in	7 in	0.3 in	Panduit	Yes	**21F296**	50	No	**21F295**	50
27 ½ in	8 in	0.3 in	Power First	Yes	**36J174**	50	No	**36J173**	50
30 ½ in	9 in	0.3 in	Panduit	Yes	**21F301**	50	No	**21F299**	50
31 in	8 in	0.3 in	Panduit	Yes	**21F298**	50	No	**21F297**	50
35 in	10 ¼ in	0.3 in	Panduit	—	—	—	No	**21F261**	50
175 lb, Extra Heavy Duty, Nylon 6/6									
19 in	5 ¼ in	0.38 in	Panduit	Yes	**1LEX6**	25	No	**1LEX5**	25
23 ½ in	7 in	0.35 in	Power First	—	—	—	No	**36J171**	50
24 in	7 in	0.35 in	Power First	Yes	**36J172**	50	—	—	—
36 in	11 in	0.35 in	Power First	—	—	—	No	**36J177**	50
48 in	14 ½ in	0.35 in	Power First	Yes	**36J180**	50	No	**36J179**	50

Nom. L	Nominal Max. Bundle Dia.	W	Brand	Black Outdoor Use	Black Item No.	Black Pkg. Qty.	Natural Outdoor Use	Natural Item No.	Natural Pkg. Qty.
175 lb, Standard, Nylon 6/6									
36 in	11 in	0.35 in	Power First	Yes	**36J178**	50	—	—	—
Fine Adjustment Cable Ties									
18 lb, Miniature, Nylon 6/6									
4 in	4 in	0.09 in	Ty-Rap	Yes	**1XFP2**	1000	No	**1XFP1**	1000
4 in	4 in	0.09 in	Ty-Rap	Yes	**3KG94**	100	No	**3KG93**	100
4 in	4 in	0.09 in	Panduit	Yes	**2CMV3**	100	No	**2CMV2**	100
4 in	4 in	0.09 in	Panduit	Yes	**2CMV5**	1000	No	**2CMV4**	1000
6 ½ in	1 ½ in	0.09 in	Panduit	Yes	**2CMV7**	100	No	**2CMV6**	100
6 ½ in	1 ½ in	0.09 in	Panduit	Yes	**2CMV9**	1000	No	**2CMV8**	1000
7 in	1 ½ in	0.1 in	Ty-Rap	Yes	**35PC22**	1000	No	**35PC23**	1000
8 in	2 in	0.1 in	Ty-Rap	Yes	**1XFN7**	1000	No	**1XFN6**	1000
8 in	2 in	0.09 in	Panduit	Yes	**2CMW2**	100	No	**2CMW1**	100
8 in	2 in	0.09 in	Panduit	Yes	**2CMW4**	1000	No	**2CMW3**	1000
8 in	2 in	0.09 in	Ty-Rap	Yes	**3KG90**	100	No	**3KG89**	100
14 in	4 in	0.1 in	Ty-Rap	No	**1XFN9**	1000	No	**1XFN8**	1000
14 in	4 in	0.09 in	Ty-Rap	Yes	**3KG92**	100	No	**3KG91**	100
14 ½ in	4 in	0.09 in	Panduit	Yes	**2CMW6**	100	No	**2CMW5**	100
14 ½ in	4 in	0.09 in	Panduit	Yes	**2CMW8**	1000	No	**2CMW7**	1000
30 lb, Miniature, Nylon 6/6									
5 ½ in	1 ¼ in	0.14 in	Ty-Rap	Yes	**1XFP8**	1000	No	**1XFP7**	1000
5 ½ in	1 ¼ in	0.14 in	Ty-Rap	Yes	**3KH01**	100	No	**3KG99**	100
8 ½ in	2 in	0.14 in	Ty-Rap	Yes	**1XFP4**	1000	No	**1XFP3**	1000
8 ½ in	2 in	0.14 in	Ty-Rap	Yes	**3KG96**	100	No	**3KG95**	100
11 ½ in	3 in	0.14 in	Ty-Rap	Yes	**1XFR5**	1000	No	**1XFR4**	1000
11 ½ in	3 in	0.14 in	Ty-Rap	Yes	**3KH07**	100	No	**3KH06**	100
14 ½ in	4 in	0.14 in	Ty-Rap	Yes	**1XFP6**	1000	No	**1XFP5**	1000
14 ½ in	4 in	0.14 in	Ty-Rap	Yes	**3KG98**	100	No	**3KG97**	100
40 lb, Intermediate, Nylon 6/6									
6 ½ in	1 ½ in	0.14 in	Panduit	Yes	**2CMX1**	100	No	**2CMW9**	100
6 ½ in	1 ½ in	0.14 in	Panduit	Yes	**2CMX3**	1000	No	**2CMX2**	1000
8 in	2 in	0.14 in	Panduit	Yes	**2CMX5**	100	No	**2CMX4**	100
8 in	2 in	0.14 in	Panduit	Yes	**2CMX7**	1000	No	**2CMX6**	1000
11 ½ in	3 in	0.14 in	Panduit	Yes	**2CMX9**	100	No	**2CMX8**	100
11 ½ in	3 in	0.14 in	Panduit	Yes	**2CMY2**	1000	No	**2CMY1**	1000
14 ½ in	4 in	0.14 in	Panduit	Yes	**2CMY4**	100	No	**2CMY3**	100
14 ½ in	4 in	0.14 in	Panduit	Yes	**2CMY6**	1000	No	**2CMY5**	1000
50 lb, Standard, Nylon 6/6									
7 ½ in	1 ¾ in	0.18 in	Ty-Rap	Yes	**3KH05**	100	No	**3KH04**	100
7 ½ in	1 ¾ in	0.18 in	Ty-Rap	Yes	**1XFR3**	1000	No	**1XFR2**	1000
8 in	2 in	0.18 in	Panduit	Yes	**2CMY8**	100	No	**2CMY7**	100
8 in	2 in	0.18 in	Panduit	Yes	**2CMZ1**	1000	No	**2CMY9**	1000
11 ½ in	3 in	0.19 in	Ty-Rap	—	—	—	No	**3KH02**	100
12 in	3 ¼ in	0.18 in	Panduit	Yes	**2CMZ3**	100	No	**2CMZ2**	100
12 in	3 ¼ in	0.18 in	Panduit	Yes	**2CMZ5**	1000	No	**2CMZ4**	1000
12 in	3 ¼ in	0.18 in	Ty-Rap	Yes	**1XFR1**	1000	No	**35PC24**	1000
14 ½ in	4 in	0.18 in	Ty-Rap	Yes	**1XFT4**	1000	No	**1XFT3**	1000
15 ½ in	4 ¼ in	0.18 in	Panduit	Yes	**2CMZ7**	100	No	**2CMZ6**	100
15 ½ in	4 ¼ in	0.18 in	Panduit	Yes	**2CMZ9**	1000	No	**2CMZ8**	1000
120 lb, Heavy Duty, Nylon 6/6									
8 ½ in	2 in	0.27 in	Ty-Rap	Yes	**1XFR7**	500	No	**1XFR6**	500
8 ½ in	2 in	0.27 in	Panduit	Yes	**2CNA2**	50	No	**2CNA1**	50
8 ½ in	2 in	0.27 in	Panduit	Yes	**2CNA4**	250	No	**2CNA3**	250
8 ½ in	2 in	0.27 in	Ty-Rap	Yes	**3KH09**	50	No	**3KH08**	50
13 ½ in	4 in	0.27 in	Ty-Rap	Yes	**1XFT2**	500	No	**1XFT1**	500
13 ½ in	4 in	0.27 in	Ty-Rap	Yes	**3KH13**	50	No	**3KH12**	50
15 in	4 in	0.27 in	Panduit	No	**2CNA6**	50	No	**2CNA5**	50
15 in	4 in	0.27 in	Panduit	Yes	**2CNA8**	250	No	**2CNA7**	250
18 in	5 in	0.27 in	Ty-Rap	Yes	**1XFR9**	500	No	**1XFR8**	500
18 in	5 in	0.27 in	Ty-Rap	—	—	—	No	**3KH10**	50
18 ½ in	5 in	0.27 in	Panduit	Yes	**2CNC1**	50	No	**2CNA9**	50
21 ½ in	6 in	0.27 in	Panduit	Yes	**2CNC3**	50	—	—	—
24 ½ in	7 in	0.27 in	Panduit	Yes	**2CNC5**	50	No	**2CNC4**	50
24 ½ in	7 in	0.26 in	Ty-Rap	Yes	**35PC25**	50	No	**35PC26**	50
27 ½ in	8 in	0.27 in	Panduit	Yes	**2CNC7**	50	No	**2CNC6**	50
30 ½ in	9 in	0.27 in	Ty-Rap	Yes	**1XFT6**	500	No	**1XFT5**	500
30 ½ in	9 in	0.27 in	Ty-Rap	—	—	—	No	**3KH16**	50
31 in	9 in	0.27 in	Panduit	Yes	**2CNC9**	50	No	**2CNC8**	50

Ty-Fast® GB Gardner Bender PANDUIT® Ty-Rap® Power First Thomas&Betts A Member of the ABB Group DOLPHIN

Standard Cable Ties

Standard cable ties are typically used to quickly bundle wire and cable but can be used for a variety of purposes. Also known as zip ties, standard cable ties are typically made of nylon.

Bacteria-Resistant Cable Ties 414X88

Beaded Releasable Cable Ties 50HZ31

Nom. L	Nominal Max. Bundle Dia.	W	Outdoor Use	Color	Brand	Item No.	Pkg. Qty.
Bacteria-Resistant Cable Ties							
18 lb, Miniature, Nylon 6/6							
4 ½ in	13/16 in	0.1 in	No	Natural	Ty-Fast	**414X88**	100
50 lb, Standard, Nylon 6/6							
7 ½ in	1 11/16 in	0.19 in	No	Natural	Ty-Fast	**414X89**	100
14 ½ in	4 in	0.19 in	No	Natural	Ty-Fast	**414X90**	100
120 lb, Heavy Duty, Nylon 6/6							
15 in	4 in	0.3 in	No	Natural	Ty-Fast	**414X91**	50
Beaded Releasable Cable Ties							
70 lb, Standard, Nylon 6/6							
8 in	2 in	0.43 in	Yes	Black	GB	**50HZ31**	15
8 in	2 in	—	Yes	Black	GB	**50HZ90**	40
12 in	3 ¼ in	0.43 in	Yes	Black	GB	**50HZ02**	15
12 in	3 ¼ in	0.43 in	Yes	Yellow	GB	**50HZ04**	15
12 in	3 ¼ in	0.43 in	Yes	Black	GB	**50HZ41**	40
140 lb, Heavy Duty, Nylon 6/6							
24 in	7 in	0.58 in	Yes	Black	GB	**50HZ08**	5
Cable Ties with Built-In Tail Clipper							
50 lb, Standard, Nylon 6/6							
8 in	2 in	0.17 in	Yes	Black	GB	**388D53**	50
8 in	2 in	0.17 in	Yes	Black	GB	**388D70**	20
8 in	2 in	0.17 in	Yes	Natural	GB	**388D75**	50
11 in	3 in	0.17 in	Yes	Black	GB	**388D67**	20
11 in	3 in	0.17 in	Yes	Natural	GB	**388D68**	20
11 in	3 in	0.17 in	Yes	Natural	GB	**388D73**	50
11 in	2 in	0.17 in	Yes	Black	GB	**388D76**	50
14 in	4 in	0.17 in	Yes	Black	GB	**388D65**	50
14 in	4 in	0.17 in	Yes	Natural	GB	**388D69**	50
14 in	4 in	0.17 in	Yes	Natural	GB	**388D71**	20
14 in	4 in	0.17 in	Yes	Black	GB	**388D72**	20
Chemical- & Radiation-Resistant Cable Ties							
18 lb, Miniature, Tefzel							
4 in	1 in	0.09 in	Yes	Aqua	Panduit	**2CND8**	100
4 in	1 in	0.09 in	Yes	Aqua	Panduit	**376Y26**	1000
30 lb, Miniature, Tefzel							
8 in	2 in	0.13 in	Yes	Aqua	Panduit	**2CND9**	100
8 in	2 in	0.04 in	Yes	Aqua	Panduit	**376W83**	1000
50 lb, Standard, Tefzel							
7 ½ in	2 in	0.19 in	Yes	Aqua	Panduit	**2CNE1**	100
7 ½ in	1 15/16 in	0.19 in	Yes	Aqua	Panduit	**376U45**	1000
11 ½ in	3 in	0.19 in	Yes	Aqua	Panduit	**2CNE2**	100
15 in	4 in	0.19 in	Yes	Aqua	Panduit	**2CNE3**	100
120 lb, Heavy Duty, Fluoropolymer ETFE							
13 ½ in	3 ½ in	0.3 in	Yes	Aqua	Ty-Rap	**35PC21**	50
120 lb, Heavy Duty, Tefzel							
11 ½ in	3 in	0.3 in	Yes	Aqua	Panduit	**2CNE4**	50
15 in	4 in	0.3 in	Yes	Aqua	Panduit	**2CNE5**	50
Heat-Stabilized Cable Ties							
50 lb, Standard, Nylon 6/6							
7 ½ in	1 ¾ in	0.19 in	Yes	Black	Ty-Rap	**1PLA7**	100
120 lb, Heavy Duty, Nylon 6/6							
13 ½ in	3 ½ in	0.27 in	Yes	Black	Ty-Rap	**1PLA8**	50
High-Temperature Cable Ties							
18 lb, Miniature, PEEK							
4 in	1 in	0.18 in	Yes	Brown	Panduit	**376W70**	100
150 lb, Heavy Duty, PEEK							
7 ½ in	2 in	0.19 in	Yes	Brown	Panduit	**2CND7**	100
Horizontal Flag Identification Cable Ties							
50 lb, Standard, Nylon 6/6							
7 ½ in	1 ¾ in	0.19 in	No	Natural	Ty-Rap	**1XFV7**	1000
7 ½ in	1 ¾ in	0.19 in	No	Natural	Ty-Rap	**3KH27**	100
7 ½ in	1 ¾ in	0.17 in	No	Natural	Ty-Rap	**3KLK9**	100
14 ½ in	4 in	0.19 in	No	Natural	Ty-Rap	**1XFV8**	1000
14 ½ in	4 in	0.19 in	No	Natural	Ty-Rap	**3KH28**	100
Metal-Detectable Cable Ties							
18 lb, Miniature, Nylon 6/6							
3 ½ in	5/8 in	0.09 in	No	Blue	Ty-Rap	**2FDD5**	100
4 in	1 in	0.1 in	No	Light Blue	Panduit	**9PAW8**	100
40 lb, Intermediate, Nylon 6/6							
8 in	2 in	0.13 in	No	Light Blue	Panduit	**8GVU9**	100
50 lb, Standard, Nylon 6/6							
7 ½ in	1 ¾ in	0.18 in	No	Blue	Ty-Rap	**2FDD6**	100
7 ½ in	2 in	0.19 in	No	Light Blue	Panduit	**8TVX2**	100
11 ½ in	3 in	0.19 in	No	Light Blue	Panduit	**8GVX0**	100
14 in	4 in	0.18 in	No	Blue	Ty-Rap	**2FDD7**	100
14 ½ in	4 in	0.19 in	No	Light Blue	Panduit	**8GVX1**	100
120 lb, Heavy Duty, Nylon 6/6							
14 in	3 ½ in	0.27 in	No	Blue	Ty-Rap	**2FDD8**	50

Nom. L	Nominal Max. Bundle Dia.	W	Outdoor Use	Color	Brand	Item No.	Pkg. Qty.
Plenum Cable Ties							
18 lb, Miniature, Fluoropolymer							
4 in	1 in	0.18 in	Yes	Maroon	Panduit	**62PJ37**	100
50 lb, Standard, Halar Fluoropolymer							
7 ½ in	1 15/16 in	0.32 in	Yes	Maroon	Panduit	**62PK45**	100
Push-Release Cable Ties							
18 lb, Miniature, Thermoplastic Polyurethane							
8 ½ in	2 5/16 in	0.5 in	Yes	Black	Panduit	**2CNH8**	100
50 lb, Standard, Nylon 6/6							
8 in	1 7/8 in	0.3 in	No	Natural	Power First	**36J196**	100
8 in	1 7/8 in	0.3 in	No	Black	Power First	**36J197**	100
8 in	1 7/8 in	0.3 in	No	Natural	Power First	**36J198**	500
8 in	1 7/8 in	0.3 in	No	Black	Power First	**36J199**	500
12 in	3 3/16 in	0.3 in	No	Natural	Power First	**36J201**	100
12 in	3 3/16 in	0.3 in	No	Black	Power First	**36J202**	100
12 in	3 3/16 in	0.3 in	No	Natural	Power First	**36J203**	500
12 in	3 3/16 in	0.3 in	No	Black	Power First	**36J204**	500
Screw Mount Cable Ties							
18 lb, Miniature, Nylon 6/6							
4 in	5/8 in	0.09 in	Yes	Black	Ty-Rap	**1XFT8**	1000
4 in	5/8 in	0.09 in	Yes	Black	Ty-Rap	**3KH19**	100
4 in	5/8 in	0.09 in	No	Natural	Ty-Rap	**1XFT7**	1000
4 in	5/8 in	0.09 in	No	Natural	Ty-Rap	**3KH18**	100
4 ½ in	¾ in	0.1 in	No	Natural	Panduit	**377A15**	1000
4 ½ in	¾ in	0.1 in	No	Natural	Panduit	**62PH08**	100
40 lb, Intermediate, Nylon 6/6							
6 in	1 1/8 in	0.15 in	Yes	Black	Ty-Rap	**1XFV1**	1000
6 in	1 1/8 in	0.14 in	Yes	Black	Ty-Rap	**3KH21**	100
6 in	1 1/8 in	0.14 in	No	Natural	Ty-Rap	**1XFT9**	1000
6 in	1 1/8 in	0.14 in	No	Natural	Ty-Rap	**3KH20**	100
7 in	1 ¼ in	0.14 in	Yes	Black	Power First	**36J189**	100
7 in	1 ¼ in	0.14 in	No	Natural	Power First	**36J188**	100
50 lb, Standard, Nylon 6/6							
8 in	1 ¾ in	0.19 in	Yes	Black	Ty-Rap	**1XFV3**	1000
8 in	1 ¾ in	0.19 in	Yes	Black	Ty-Rap	**3KH23**	100
8 in	1 ¾ in	0.19 in	No	Natural	Ty-Rap	**1XFV2**	1000
8 in	1 ¾ in	0.19 in	No	Natural	Ty-Rap	**3KH22**	100
8 in	1 13/16 in	0.19 in	No	Natural	Power First	**36J190**	100
8 in	1 13/16 in	0.19 in	No	Natural	Power First	**36J194**	1000
8 in	2 in	0.19 in	Yes	Black	Panduit	**62PH15**	100
8 in	2 in	0.19 in	Yes	Black	Panduit	**62PH20**	100
8 in	2 in	0.19 in	Yes	Natural	Panduit	**62PH14**	100
8 in	2 in	0.19 in	Yes	Natural	Panduit	**62PH16**	1000
8 ½ in	2 in	0.18 in	Yes	Black	Panduit	**2CND2**	100
8 ½ in	2 in	0.18 in	No	Natural	Panduit	**2CND1**	100
15 in	4 in	0.19 in	No	Natural	Thomas & Betts	**41NH96**	100
16 in	4 in	0.18 in	Yes	Black	Panduit	**2CND4**	100
16 in	4 in	0.18 in	No	Natural	Panduit	**2CND3**	100
120 lb, Heavy Duty, Nylon 6/6							
14 in	3 ½ in	0.3 in	Yes	Black	Ty-Rap	**1XFV5**	500
14 in	3 ½ in	0.3 in	Yes	Black	Ty-Rap	**3KH25**	50
14 in	3 ½ in	0.3 in	No	Natural	Ty-Rap	**1XFV4**	500
14 in	3 ½ in	0.3 in	No	Natural	Ty-Rap	**3KH24**	50
15 in	4 in	0.3 in	No	Black	Power First	**36J193**	100
15 in	4 in	0.3 in	No	Natural	Power First	**36J192**	100
15 ½ in	4 in	0.27 in	Yes	Black	Panduit	**2CND6**	50
15 ½ in	4 in	0.27 in	No	Natural	Panduit	**2CND5**	50
Vertical Flag Identification Cable Ties							
18 lb, Miniature, Nylon							
4 in	¾ in	0.1 in	No	Natural	Dolphin Components Corp	**14X859**	100
18 lb, Miniature, Nylon 6/6							
4 in	5/8 in	0.09 in	No	Natural	Ty-Rap	**1XFV9**	500
4 in	5/8 in	0.09 in	No	Natural	Ty-Rap	**1XFW1**	500
4 in	1/16 in	0.09 in	No	Natural	Ty-Rap	**3KH29**	100
4 in	1/16 in	0.09 in	No	Natural	Ty-Rap	**3KH30**	100
4 ½ in	1 in	0.1 in	No	Natural	Panduit	**62PH44**	1000
4 in	¾ in	0.09 in	No	Natural	Panduit	**62PH51**	1000
8 in	2 in	0.1 in	No	Natural	Panduit	**62PH57**	1000
Wing Push Mount Cable Ties							
40 lb, Intermediate, Nylon 6/6							
6 in	1 ¼ in	0.45 in	No	Natural	Panduit	**62PL82**	500
50 lb, Standard, Nylon 6/6							
8 in	1 ¾ in	0.18 in	No	Natural	Ty-Rap	**1XFV6**	1000
8 in	1 ¾ in	0.18 in	No	Natural	Ty-Rap	**3KH26**	100

Nom. L	Nominal Max. Bundle Dia.	W	Brand	Blue Outdoor Use	Blue Item No.	Blue Pkg. Qty.	Green Outdoor Use	Green Item No.	Green Pkg. Qty.	Orange Outdoor Use	Orange Item No.	Orange Pkg. Qty.	Red Outdoor Use	Red Item No.	Red Pkg. Qty.	Yellow Outdoor Use	Yellow Item No.	Yellow Pkg. Qty.
Colored and Striped Cable Ties																		
18 lb, Miniature, Nylon 6/6																		
4 in	13/16 in	0.18 in	Panduit	—	—	—	—	—	—	No	**148L48**	100	—	—	—	—	—	—
4 in	7/8 in	0.1 in	Power First	Yes	**36J209**	100	Yes	**36J208**	100	Yes	**36J207**	100	Yes	**36J206**	100	Yes	**36J205**	100
40 lb, Intermediate, Nylon 6/6																		
6 in	1 3/8 in	0.14 in	Power First	Yes	**36J214**	100	Yes	**36J213**	100	Yes	**36J212**	100	Yes	**36J211**	100	Yes	**36J210**	100
8 in	1 15/16 in	0.14 in	Power First	Yes	**36J224**	100	Yes	**36J223**	100	Yes	**36J222**	100	Yes	**36J221**	100	Yes	**36J220**	100
50 lb, Standard, Nylon 6/6																		
7 ½ in	1 13/16 in	0.32 in	Panduit	—	—	—	—	—	—	No	**148L49**	100	—	—	—	—	—	—
8 in	1 15/16 in	0.19 in	Power First	Yes	**36J219**	100	Yes	**36J218**	100	No	**36J217**	100	Yes	**36J216**	100	Yes	**36J215**	100
12 in	3 ¼ in	0.19 in	Power First	Yes	**36J229**	100	Yes	**36J228**	100	Yes	**36J227**	100	Yes	**36J226**	100	Yes	**36J225**	100
14 ½ in	4 in	0.19 in	Power First	Yes	**36J234**	100	Yes	**36J233**	100	Yes	**36J232**	100	Yes	**36J231**	100	Yes	**36J230**	100
14 ½ in	4 in	0.34 in	Panduit	—	—	—	—	—	—	No	**148L51**	100	—	—	—	—	—	—
120 lb, Heavy Duty, Nylon 6/6																		
14 ½ in	4 in	0.48 in	Panduit	—	—	—	—	—	—	No	**197G71**	250	—	—	—	—	—	—
175 lb, Extra Heavy Duty, Nylon 6/6																		
43 ½ in	13 in	0.56 in	Panduit	—	—	—	—	—	—	No	**148L47**	100	—	—	—	—	—	—

Cable Ties with Built-In Tail Clipper 388D53

Chemical & Radiation Resistant Cable Ties 2CND8

High-Temperature Cable Ties 2CND7

Horizontal Flag Identification Cable Ties 3KH27

Metal-Detectable 2FDD8

Plenum 62PJ37

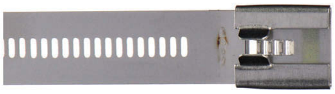
Push-Release 2CNH8

Screw Mount 1XFT8

Vertical Flag Identification 1XFV9

Wing Push Mount 1XFV6

Colored and Striped Cable Ties 36J205



316 Stainless Steel
3KH33

Ty-Rap® PANDUIT® DOLPHIN

Metal Cable Ties

Metal cable ties are used for tying, lashing, and identifying materials in harsh environments like boiler rooms, chemical plants, refineries, and paper mills. They have excellent corrosion resistance and durability and can withstand high temperatures.

Nom. L	Nominal Max. Bundle Dia.	W	Locking Style	Color	Brand	Item No.	Pkg. Qty.
304 Stainless Steel Cable Ties							
100 lb, Standard, 304 Stainless Steel							
6 ½ in	1 in	0.18 in	SS Barb	Silver	Ty-Rap	**6JE35**	10
10 in	2 in	0.18 in	SS Barb	Silver	Ty-Rap	**6JE36**	10
16 in	4 in	0.18 in	SS Barb	Silver	Ty-Rap	**6JE38**	10
180 lb, Extra Heavy Duty, 304 Stainless Steel							
12 ½ in	2 in	0.18 in	Ball Lock	Silver	Panduit	**2CMT4**	100
12 ½ in	2 in	0.18 in	Ball Lock	Silver	Panduit	**2CMU3**	100
18 ½ in	4 in	0.18 in	Retained Tension	Silver	Panduit	**2CMT5**	100
18 ½ in	4 in	0.18 in	Retained Tension	Silver	Panduit	**2CMU4**	100
200 lb, Extra Heavy Duty, 304 Stainless Steel							
5 in	1 in	0.18 in	Retained Tension, Radial Seal	Silver	Panduit	**2CMP8**	100
8 in	2 in	0.19 in	Ball Lock	Silver	Ty-Rap	**35PC06**	50
8 in	2 in	0.18 in	Ball Lock	Silver	Panduit	**2CMP9**	100
10 in	2 in	0.25 in	SS Barb	Silver	Ty-Rap	**6JE37**	10
14 ½ in	4 in	0.19 in	Ball Lock	Silver	Ty-Rap	**35PC08**	50
14 ½ in	4 in	0.18 in	Retained Tension, Radial Seal	Silver	Panduit	**2CMR1**	100
16 in	4 in	0.25 in	SS Barb	Silver	Ty-Rap	**6JE39**	10
20 ½ in	6 in	0.19 in	Ball Lock	Silver	Ty-Rap	**35PC10**	50
20 ½ in	6 in	0.18 in	Retained Tension, Radial Seal	Silver	Panduit	**2CMR2**	100
22 in	6 in	0.25 in	SS Barb	Silver	Ty-Rap	**6JE40**	10
29 in	8 in	0.25 in	SS Barb	Silver	Ty-Rap	**6JE41**	10
225 lb, Extra Heavy Duty, 304 Stainless Steel							
12 ½ in	2 in	0.25 in	Retained Tension	Silver	Panduit	**2CMU6**	50
18 ½ in	4 in	0.25 in	Retained Tension	Silver	Panduit	**2CMT9**	50
450 lb, Extra Heavy Duty, 304 Stainless Steel							
8 in	2 in	0.31 in	Ball Lock	Silver	Panduit	**2CMR3**	50
8 in	2 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC07**	50
14 ½ in	4 in	0.31 in	Retained Tension	Silver	Panduit	**2CMR4**	50
14 ½ in	4 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC09**	50
20 ½ in	6 in	0.31 in	Ball Lock	Silver	Panduit	**2CMR5**	50
20 ½ in	6 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC11**	50
600 lb, Extra Heavy Duty, 304 Stainless Steel							
12 in	2 in	0.5 in	Retained Tension, Radial Seal	Silver	Panduit	**30PR61**	50
17 ½ in	4 in	0.5 in	Ball Lock	Silver	Panduit	**30PR62**	50
900 lb, Extra Heavy Duty, 304 Stainless Steel							
17 ½ in	4 in	0.63 in	Ball Lock	Silver	Panduit	**30PR63**	50
23 ½ in	6 in	0.63 in	Retained Tension	Silver	Panduit	**30PR64**	50
316 Stainless Steel Cable Ties							
200 lb, Extra Heavy Duty, 316 Stainless Steel							
5 in	1 in	0.18 in	Ball Lock	Silver	Panduit	**2CMR6**	100
8 in	2 in	0.18 in	Ball Lock	Silver	Panduit	**2CMR7**	100
14 ½ in	4 in	0.18 in	Ball Lock	Silver	Panduit	**2CMR8**	100
20 ½ in	5 ⅞ in	0.19 in	Ball Lock	Silver	Ty-Rap	**35PC16**	50
250 lb, Extra Heavy Duty, 316 Stainless Steel							
5 in	1 in	0.31 in	Ball Lock	Silver	Dolphin Components Corp	**14X907**	10
6 in	2 in	0.29 in	SS Barb	Silver	Ty-Rap	**6JE42**	10
6 in	2 in	0.28 in	SS Barb	Silver	Ty-Rap	**3KH37**	100
12 in	4 in	0.29 in	SS Barb	Silver	Ty-Rap	**6JE44**	10
12 in	4 in	0.47 in	SS Barb	Silver	Ty-Rap	**6JE46**	10
12 in	4 in	0.28 in	SS Barb	Silver	Ty-Rap	**3KH31**	100
12 in	3 in	0.47 in	SS Barb	Silver	Ty-Rap	**3KH33**	100
14 in	4 in	0.31 in	Ball Lock	Silver	Dolphin Components Corp	**14X913**	10
24 in	7 ½ in	0.29 in	SS Barb	Silver	Ty-Rap	**6JE48**	10
24 in	7 ½ in	0.47 in	SS Barb	Silver	Ty-Rap	**6JE49**	10
24 in	7 ½ in	0.28 in	SS Barb	Silver	Ty-Rap	**3KH35**	100
24 in	7 ½ in	0.47 in	SS Barb	Silver	Ty-Rap	**3KH36**	100
450 lb, Extra Heavy Duty, 316 Stainless Steel							
8 in	2 in	0.47 in	Ball Lock	Silver	Dolphin Components Corp	**14X917**	10
8 in	2 in	0.47 in	Ball Lock	Silver	Dolphin Components Corp	**14X916**	50
8 in	2 in	0.31 in	Ball Lock	Silver	Panduit	**2CMT1**	50
8 in	2 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC13**	50
14 ½ in	4 in	0.31 in	Ball Lock	Silver	Panduit	**2CMT2**	50
14 ½ in	4 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC15**	50
20 in	6 in	0.47 in	Ball Lock	Silver	Dolphin Components Corp	**14X923**	10
20 in	6 in	0.47 in	Ball Lock	Silver	Dolphin Components Corp	**14X922**	50
20 ½ in	6 in	0.31 in	Ball Lock	Silver	Panduit	**2CMT3**	50
20 ½ in	6 in	0.31 in	Ball Lock	Silver	Ty-Rap	**35PC17**	50
26 in	8 in	0.47 in	Ball Lock	Silver	Dolphin Components Corp	**14X925**	10
26 in	8 in	0.62 in	Ball Lock	Silver	Dolphin Components Corp	**14X924**	50
800 lb, Extra Heavy Duty, 316 Stainless Steel							
18 in	4 in	0.62 in	Ball Lock	Silver	Dolphin Components Corp	**14X927**	10
18 in	4 in	0.62 in	Ball Lock	Silver	Dolphin Components Corp	**14X926**	50
24 in	6 in	0.62 in	Ball Lock	Silver	Dolphin Components Corp	**14X928**	50
30 in	8 in	0.63 in	Ball Lock	Silver	Dolphin Components Corp	**14X930**	50
Aluminum Cable Ties							
50 lb, Standard, Aluminum							
8 in	2 in	0.31 in	Ball Lock	Silver	Panduit	**3FVY3**	50
14 ½ in	4 in	0.31 in	Ball Lock	Silver	Panduit	**3FVY4**	50
Coated 316 Stainless Steel Cable Ties							
250 lb, Extra Heavy Duty, 316 Stainless Steel							
6 in	2 in	0.29 in	SS Barb	Black	Ty-Rap	**6JE43**	10
6 in	2 in	0.28 in	SS Barb	Black	Ty-Rap	**3KH38**	100
8 in	2 in	0.31 in	Ball Lock	Black	Panduit	**30PR65**	50
12 in	4 in	0.29 in	SS Barb	Black	Ty-Rap	**6JE45**	10
12 in	4 in	0.47 in	SS Barb	Black	Ty-Rap	**6JE47**	10
12 in	4 in	0.28 in	SS Barb	Black	Ty-Rap	**3KH32**	100
12 in	3 in	0.47 in	SS Barb	Black	Ty-Rap	**3KH34**	100
14 ½ in	4 in	0.31 in	Ball Lock	Black	Panduit	**30PR71**	50
14 ½ in	4 in	0.31 in	Ball Lock	Blue	Panduit	**30PR72**	50
14 ½ in	4 in	0.31 in	Ball Lock	Green	Panduit	**30PR73**	50
14 ½ in	4 in	0.31 in	Ball Lock	Red	Panduit	**30PR74**	50
14 ½ in	4 in	0.31 in	Ball Lock	White	Panduit	**30PR75**	50
14 ½ in	4 in	0.31 in	Ball Lock	Yellow	Panduit	**30PR76**	50

1TBD8

3KH51

52ZJ97

3KH55

14L582

3KH54

Ty-Rap® PANDUIT® DOLPHIN

Cable Tie Installation Tools

Tools are used to tension and cut ties.

Cable Tie Tensile Strength	Cable Tie Width	Tension Adjustment Method	Handle Type	Brand	Item No.
Tools for Nylon Cable Ties					
0 to 60 lb	0.094 in to 0.184 in	Pre-Set Steps	Adjustable Span Grip	Ty-Rap	**1A887**
8 to 50 lb	0.070 in to 0.190 in	Pre-Set Steps	Ergonomic	Panduit	**52ZJ96**
18 to 50 lb	0.094 in to 0.184 in	Pre-Set Steps	Cushion Grip	Ty-Rap	**1TBD8**
18 to 50 lb	0.094 in to 0.184 in	No Adjustment	Plain	Ty-Rap	**3KH51**
50 to 120 lb	0.184 in to 0.270 in	Pre-Set Steps	Cushion Grip	Ty-Rap	**1TBD9**
50 to 120 lb	0.184 in to 0.301 in	No Adjustment	Plain	Ty-Rap	**3KH53**
50 to 175 lb	0.190 in to 0.350 in	Pre-Set Steps	Ergonomic	Panduit	**52ZJ97**
Hand Tools for Stainless Steel Cable Ties					
100 lb	0.170 in	No Adjustment	Cushion Grip	Ty-Rap	**3KH55**
100 lb	0.050 in	Pre-Set Steps	Plain	Dolphin Components Corp	**14L582**
180 to 225 lb	0.180 in to 0.250 in	Pre-Set Steps	Cushion Grip	Panduit	**2CMV1**
200 to 600 lb	0.180 in to 0.310 in	Pre-Set Steps	Plain	Panduit	**2CMU8**
200 to 800 lb	0.180 in to 0.500 in	No Adjustment	Cushion Grip	Panduit	**2CMU9**
250 lb	0.250 in	No Adjustment	Cushion Grip	Ty-Rap	**3KH54**
Cable Tie Power Tools					
250 lb	0.310 in to 0.630 in	Infinite Adjustment	Ergonomic	Panduit	**30PR86**

PANDUIT Ty-Rap RIP-TIE

Slotted Hook-and-Loop Cable Ties

They wrap around wire, cable, cords, and other materials and then fasten onto themselves. They can be pulled apart and refastened, so they're easier to adjust than other cable ties. They're also reusable, so they're ideal for bundles that frequently change size or need continuous access.

Buckle Hook and Loop 4YF28

Cut to Length Hook-and-Loop 2CNF4

Slotted Hook and Loop 4YF24

Tethered Hook and Loop 45FG93

L	Max. Bundle Dia.	W	Material	Color	Brand	Item No.	Pkg. Qty.
Buckle Hook-and-Loop Cable Ties							
50 lb Tensile Strength							
12 in	3.00 in	0.85 in	Nylon	Black	Panduit	**2CNH2**	10
12 in	3.00 in	0.75 in	Nylon	Black	Ty-Rap	**4YF28**	10
18 in	5.00 in	0.75 in	Nylon	Black	Ty-Rap	**4YF29**	10
Cut to Length Hook-and-Loop Cable Tie Rolls							
18 lb Tensile Strength							
15 ft	Variable	0.33 in	Nylon, Polyethylene	Black	Panduit	**2CNF4**	1
30 ft	Variable	0.5 in	Polyester	Black	Rip-Tie	**45FJ75**	1
75 ft	Variable	0.5 in	Polyester	Black	Rip-Tie	**45FJ80**	1
38 lb Tensile Strength							
30 ft	Variable	1 in	Polyester	Black	Rip-Tie	**45FJ85**	1
75 ft	Variable	1 in	Polyester	Black	Rip-Tie	**45FJ90**	1
40 lb Tensile Strength							
35 ft	Variable	0.75 in	Nylon	Black	Panduit	**2CNH1**	10
50 lb Tensile Strength							
15 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Panduit	**2CNF5**	1
15 ft	Variable	0.5 in	Nylon, Polyethylene	Black	Rip-Tie	**45FH96**	1
15 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ27**	1
15 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF30**	1
75 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Panduit	**2CNF6**	1
75 ft	Variable	0.5 in	Nylon, Polyethylene	Black	Rip-Tie	**45FH86**	1
75 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ17**	1
75 ft	Variable	1 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ38**	1
75 ft	Variable	0.25 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ49**	1
75 ft	Variable	0.38 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ59**	1
450 ft	Variable	1 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ48**	1
600 ft	Variable	0.5 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ07**	1
600 ft	Variable	0.75 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ37**	1
70 lb Tensile Strength							
30 ft	Variable	2 in	Polyester	Black	Rip-Tie	**45FJ95**	1
75 ft	Variable	2 in	Polyester	Black	Rip-Tie	**45FK01**	1

L	Max. Bundle Dia.	W	Material	Color	Brand	Item No.	Pkg. Qty.
Plenum Rated Hook-and-Loop Cable Ties							
40 lb Tensile Strength							
8 in	1.91 in	0.5 in	Nylon	Black	Panduit	**2CNF7**	10
12 in	3.18 in	0.5 in	Nylon	Black	Panduit	**2CNF9**	10
50 lb Tensile Strength							
6 in	1.50 in	0.75 in	Nylon	Black	Panduit	**2CNG2**	10
12 in	3.20 in	0.75 in	Nylon	Black	Panduit	**2CNG4**	10
18 in	5.00 in	0.75 in	Nylon	Black	Panduit	**2CNG6**	10
Pre-Cut Hook-and-Loop Cable Tie Strips							
50 lb Tensile Strength							
6 in	1.50 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF31**	10
7 in	1.60 in	0.75 in	Nylon, Polyethylene	Black	Panduit	**2CNH9**	100
12 in	3.20 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF32**	10
18 in	5.00 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF33**	10
Slotted Hook-and-Loop Cable Ties							
14 lb Tensile Strength							
3.5 in	0.50 in	0.25 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ70**	7
3.5 in	0.50 in	0.25 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ72**	56
3.5 in	0.50 in	0.25 in	Nylon, Polyethylene	Black	Rip-Tie	**45FJ74**	252
40 lb Tensile Strength							
8 in	1.91 in	0.5 in	Nylon, Polyethylene	Black	Panduit	**2CNE8**	10
9 in	2.00 in	0.5 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF24**	10
12 in	3.18 in	0.5 in	Nylon, Polyethylene	Black	Panduit	**2CNE9**	10
50 lb Tensile Strength							
9 in	2.00 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF25**	10
13 in	2.00 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF26**	10
13 in	3.50 in	0.75 in	Nylon, Polyethylene	Black	Ty-Rap	**4YF27**	10
Tethered Hook-and-Loop Cable Ties							
90 lb Tensile Strength							
6 in	1.50 in	1 in	Nylon	Black	Rip-Tie	**45FG93**	10
9 in	2.25 in	1 in	Nylon	Black	Rip-Tie	**45FH16**	10
12 in	2.50 in	2 in	Brass, Nylon	Black	Rip-Tie	**45FH60**	10
14 in	3.75 in	1 in	Nylon	Black	Rip-Tie	**45FH38**	10
18 in	4.00 in	2 in	Brass, Nylon	Black	Rip-Tie	**45FH61**	10
24 in	6.50 in	2 in	Brass, Nylon	Black	Rip-Tie	**45FH62**	10

Ty-Rap PANDUIT 3M DOLPHIN

Cable Tie Mounts

Cable tie mounts attach to walls, ceilings, and other surfaces and are used with a cable tie to secure a bundle of wire or cable.

Adhesive Mount Cable Tie Bases 1A870

Metal-Detectable Cable Tie Mounts 30EK70

Screw Mount Cable Tie Bases 14X882

Slot Width	Slot Height	Size	Color	Brand	Item No.	Pkg. Qty.
Adhesive Mount Cable Tie Bases						
For Use With Cable Ties from 18 To 51 lb Tensile Strength						
0.14 in	0.05 in	0.75 in L x 0.75 in W x 0.19 in H	Natural	—	**6EEE7**	100
0.2 in	0.07 in	1.1 in L x 1.1 in W x 0.24 in H	Natural	—	**6EEE8**	100
0.3 in	0.09 in	1.25 in L x 1 in W x 0.28 in H	Natural	—	**6EEE6**	100
0.54 in	0.54 in	1.5 in L x 1.5 in W x 0.3 in H	Natural	—	**6EEF3**	100
For Use With Cable Ties Up To 50 lb Tensile Strength						
0.16 in	0.06 in	0.74 in L x 0.74 in W x 0.2 in H	Natural	Ty-Rap	**1A871**	100
0.2 in	0.07 in	0.99 in L x 0.99 in W x 0.2 in H	Natural	Ty-Rap	**1A872**	100
0.3 in	0.09 in	1.25 in L x 1 in W x 0.28 in H	Natural	Ty-Rap	**1A870**	100
For Use With Miniature, Intermediate and Standard Cable Ties						
0.12 in	0.06 in	0.5 in L x 0.5 in W x 0.15 in H	White	Panduit	**62NG12**	1000
0.12 in	0.06 in	0.5 in L x 0.5 in W x 0.15 in H	White	Panduit	**62NG13**	100
0.12 in	0.06 in	0.5 in L x 0.5 in W x 0.15 in H	White	Panduit	**62NG14**	1000
0.12 in	0.06 in	0.5 in L x 0.5 in W x 0.15 in H	Black	Panduit	**62NG15**	1000
0.2 in	0.06 in	1 in L x 1 in W x 0.24 in H	White	Panduit	**376Z69**	500
0.2 in	0.06 in	1 in L x 1 in W x 0.2 in H	White	Panduit	**377A09**	500
0.2 in	0.06 in	1 in L x 1 in W x 0.24 in H	Black	Panduit	**377A46**	100
0.2 in	0.06 in	1 in L x 1 in W x 0.2 in H	White	Panduit	**377A51**	100
0.2 in	0.06 in	1 in L x 1 in W x 0.2 in H	Black	Panduit	**377A52**	100
0.2 in	0.06 in	1 in L x 1 in W x 0.24 in H	White	Panduit	**62NF94**	100
0.2 in	0.06 in	1 in L x 1 in W x 0.2 in H	Black	Panduit	**62NG20**	500
0.21 in	0.06 in	1 in L x 1.2 in W x 0.15 in H	Beige	3M	**2FZV9**	500
0.21 in	0.06 in	0.74 in L x 0.74 in W x 0.22 in H	Natural	3M	**2FZW4**	500
0.21 in	0.06 in	0.99 in L x 0.99 in W x 0.22 in H	Natural	3M	**2FZW8**	500
0.21 in	0.06 in	0.74 in L x 0.74 in W x 0.22 in H	Black	3M	**2GAP2**	500
0.21 in	0.06 in	0.99 in L x 0.99 in W x 0.22 in H	Black	3M	**2JKG8**	500
0.21 in	0.06 in	1.13 in L x 1.13 in W x 0.17 in H	Natural	Panduit	**376Z73**	500
0.21 in	0.06 in	1.13 in L x 1.13 in W x 0.17 in H	Natural	Panduit	**377A26**	100
0.21 in	0.07 in	1.12 in L x 1.12 in W x 0.2 in H	White	Panduit	**62NG03**	100
0.21 in	0.18 in	2 in L x 1 in W x 0.35 in H	Beige	3M	**2DUK9**	500
0.25 in	0.06 in	1 in L x 1 in W x 0.24 in H	White	Panduit	**1LEU9**	100
0.42 in	0.09 in	1.5 in L x 1.5 in W x 0.34 in H	White	Panduit	**1LEV1**	50
0.42 in	0.09 in	1.5 in L x 1.5 in W x 0.34 in H	White	Panduit	**1LEV2**	50
For Use With Miniature and Intermediate Cable Ties						
0.17 in	0.06 in	0.75 in L x 0.75 in W x 0.18 in H	White	Panduit	**377A54**	500
0.17 in	0.07 in	0.75 in L x 0.75 in W x 0.18 in H	White	Panduit	**377A55**	500
0.17 in	0.07 in	0.75 in L x 0.75 in W x 0.18 in H	White	Panduit	**377A56**	100
0.17 in	0.07 in	0.75 in L x 0.75 in W x 0.18 in H	White	Panduit	**62NG31**	100
0.17 in	0.07 in	0.75 in L x 0.75 in W x 0.18 in H	Black	Panduit	**62NG32**	100
0.17 in	0.07 in	0.75 in L x 0.75 in W x 0.18 in H	Black	Panduit	**62NG33**	500
0.2 in	0.06 in	0.75 in L x 0.75 in W x 0.2 in H	White	Panduit	**1LEV3**	100
Metal-Detectable Cable Tie Mounts						
For Use With Cable Ties Up To 120 lb Tensile Strength						
0.3 in	0.3 in	1.13 in L x 1.13 in W x 0.34 in H	Blue	Ty-Rap	**30EK69**	100
For Use With Cable Ties Up To 30 lb Tensile Strength						
0.14 in	0.13 in	0.75 in L x 0.75 in W x 0.19 in H	Blue	Ty-Rap	**30EK70**	100

Slot Width	Slot Height	Size	Color	Brand	Item No.	Pkg. Qty.
For Use With Cable Ties Up To 50 lb Tensile Strength						
0.19 in	0.21 in	1.13 in L x 1.13 in W x 0.25 in H	Blue	Ty-Rap	**30EK68**	100
0.19 in	0.27 in	0.67 in L x 0.43 in W x 0.33 in H	Blue	Ty-Rap	**30EK67**	100
Screw Mount Cable Tie Bases						
For Use With Cable Tie Sizes 4 in to 11 in						
0.19 in	0.06 in	0.59 in L x 0.4 in W x 0.27 in H	Natural	Dolphin Components Corp	**14X882**	1000
For Use With Cable Tie Sizes 4 in to 21 in						
0.34 in	0.13 in	0.89 in L x 0.62 in W x 0.37 in H	Natural	Dolphin Components Corp	**14X884**	1000
For Use With Intermediate, Miniature and Standard Cable Ties						
0.22 in	0.06 in	0.63 in L x 0.43 in W x 0.28 in H	Aqua	Panduit	**60HM18**	100
For Use With Intermediate to Extra Heavy Duty Cable Ties						
0.52 in	0.23 in	1.65 in L x 0.72 in W x 0.61 in H	Black	Panduit	**377A12**	25
0.52 in	0.23 in	1.65 in L x 0.72 in W x 0.61 in H	Black	Panduit	**62PZ03**	100
0.52 in	0.23 in	1.65 in L x 0.72 in W x 0.61 in H	Black	Panduit	**62PZ07**	100
For Use With Light-Heavy and Standard Cable Ties						
0.32 in	0.09 in	0.86 in L x 0.61 in W x 0.38 in H	Aqua	Panduit	**60HM16**	100
0.32 in	0.09 in	0.86 in L x 0.61 in W x 0.38 in H	Aqua	Panduit	**60HM17**	100
For Use With Miniature, Intermediate and Standard Cable Ties						
0.11 in	0.05 in	0.4 in L x 0.32 in W x 1 in H	Natural	Panduit	**62PC73**	100
0.17 in	0.07 in	0.14 in L x 0.5 in W x 1 in H	Natural	Panduit	**62PD14**	100
0.17 in	0.07 in	0.14 in L x 0.5 in W x 1 in H	Natural	Panduit	**62PD15**	1000
0.2 in	0.07 in	0.74 in L x 0.37 in W x 0.19 in H	Natural	Panduit	**62PY53**	1000
0.2 in	0.07 in	0.74 in L x 0.37 in W x 0.19 in H	Natural	Panduit	**62PY55**	100
0.2 in	0.07 in	0.74 in L x 0.37 in W x 0.19 in H	Natural	Panduit	**62PY56**	1000
0.22 in	0.06 in	0.63 in L x 0.43 in W x 0.28 in H	Natural	Panduit	**377A40**	100
0.22 in	0.06 in	0.63 in L x 0.43 in W x 0.28 in H	Black	Panduit	**377A47**	100
0.22 in	0.06 in	0.63 in L x 0.43 in W x 0.28 in H	Natural	Panduit	**62PY78**	100
0.22 in	0.06 in	0.63 in L x 0.43 in W x 0.28 in H	Natural	Panduit	**62PY86**	1000
0.32 in	0.09 in	0.86 in L x 0.61 in W x 0.38 in H	Natural	Panduit	**376Z45**	100
0.32 in	0.09 in	0.87 in L x 0.62 in W x 0.38 in H	Natural	Panduit	**376Z79**	100
0.32 in	0.09 in	0.86 in L x 0.61 in W x 0.38 in H	Natural	Panduit	**62PY91**	1000
0.32 in	0.09 in	0.87 in L x 0.62 in W x 0.38 in H	Natural	Panduit	**62PY95**	1000
For Use With Miniature and Standard Cable Ties						
0.22 in	0.06 in	0.64 in L x 0.43 in W x 0.28 in H	Translucent Brown	Panduit	**60HM19**	100
For Use With Miniature Cable Ties						
0.13 in	0.07 in	0.51 in L x 0.32 in W x 0.23 in H	Natural	Panduit	**62PY68**	100
0.13 in	0.07 in	0.51 in L x 0.32 in W x 0.23 in H	Natural	Panduit	**62PY69**	1000

Swivel Stem Mount
5U790

Swivel Stem Mount
6P008

Swivel Stem with Top-Mounted Photo Eye
13E059

Stem Mount
6P007

Locking Plug
6P006

Wired-in
6P005

Photocontrols

INTERMATIC

Designed for outdoor use, these commercial-grade thermal photocontrols (except instant On/Off) feature a built-in delay to prevent false cycling due to car headlights, lightning, etc. Cadmium sulfide photocell and sonic-welded polycarbonate case and lens. UL Listed and CSA Certified (except 5U789).

Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Temp. Range	L	W	D	Mfr. Model	Item No.
½"-14 NPSM Thread Mounting; Die-Cast Metal Housing Material											
105 to 305V AC	1,800	15 A	15.0 to 6.5	1.5	2.25	-40° to 158°F	2 ¹¹⁄₁₆ in	3 ¾ in	2 ¼ in	EK4436SM	**49ZZ48**
½"-14 NPSM Thread Mounting; Plastic Housing Material											
105 to 305V AC	1,000	15 A	8.3 A	1.5	2.25	-40° to 158°F	2 ¼ in	1 ⅓ in	1 ¼ in	EK4136S	**52RU69**
120 to 277V AC	1,800	15 A	15.0 to 6.5	1.5	2.25	-40° to 158°F	5 ⅝ in	1 ¼ in	1 ⁵⁄₁₆ in	EK4236S	**49ZZ47**
½ in Male Pipe Thread Mounting; Polycarbonate Housing Material											
120 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	5 ¾ in	3 in	3 in	K4236C	**5U790**
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	2 ⁵⁄₁₆ in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4121C	**6P007**
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	5 ½ in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4221C	**6P008** *
120V AC	3,000	25 A	25 A	1.0 to 5.0	3 to 15	-40° to 158°F	2 ⁵⁄₁₆ in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4141C	**5U789**
⅜"-18 NPSM Thread Mounting; Plastic Housing Material											
105 to 305V AC	1,000	15 A	8.3 A	1.5	2.25	-40° to 158°F	2 ¼ in	1 ⅓ in	1 ¼ in	EK4036S	**52RU68**
Fixed Mounting; Polycarbonate Housing Material											
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	1 ¹³⁄₁₆ in	1 ⁵⁄₁₆ in	¹³⁄₁₆ in	K4021C	**6P005**
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	4 ½ in	2 ¾ in	—	K4321C	**13E061**
208 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	1 ¹³⁄₁₆ in	1 ⁵⁄₁₆ in	¹³⁄₁₆ in	K4023C	**5U791**
Locking Mounting; Polycarbonate Housing Material											
120 to 277V AC	1,000	8.3 A	8.3 A	1.5	2.25	-40° to 158°F	2 ¾ in		—	LED4536SC	**710N33**
Locking Mounting; Polypropylene Housing Material											
120 to 277V AC	2,300	15 A	8.3 A	0.5	15	-40° to 158°F	2 ¾ in	3 in	3 in	LC4536C	**5U792**
120 to 277V AC	4,155	15 A	8.3 A	0.5	15	-40° to 158°F	2 ¾ in	3 in	3 in	LC4536LAC	**5U793**
120V AC	1,800	15 A	8.3 A	0.5	15	-40° to 158°F	2 ¾ in	3 in	3 in	LC4521C	**6P006**
Stem and Swivel Mounting; Polycarbonate Housing Material											
120 to 277V AC	1,000	6 A	6 A	1.5	4.50	-40° to 158°F	5 ⅝ in	1 ⁵⁄₁₆ in	1 ¼ in	EK4736S	**710N34**
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	5 ½ in	1 ½ in	1 ½ in	K4251	**13E059**
208 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	5 ½ in	1 ½ in	1 ½ in	K4253	**13E060**
208 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	5 ½ in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4223C	**20XE98**
Stem Mounting; Die-Cast Housing Material											
120V AC	1,800	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	3 in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4421M	**20XF01** †
208 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	3 in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4423M	**20XE99** †
Stem Mounting; Polypropylene Housing Material											
208 to 277V AC	4,150	15 A	8.3 A	1.0 to 5.0	3 to 15	-40° to 158°F	2 ⁵⁄₁₆ in	1 ⁹⁄₁₆ in	1 ⁹⁄₁₆ in	K4123C	**5U788**
Turn-Lock Mounting; Plastic Housing Material											
105 to 305V AC	1,800	15 A	2 A	1.5	2.25	-40° to 158°F	2 ⁷⁄₃₂ in	3 ³⁄₁₆ in	3 ³⁄₁₆ in	ELC4536	**49ZZ49**
Turn-Lock Mounting; Polycarbonate Housing Material											
105 to 305V AC	1,000	—	6 A	1.2 to 3.0	2 to 5	-40° to 158°F	5 ⁵¹⁄₆₄ in	3 ½ in	3 ½ in	EK4536	**20XE70**
120 to 277V AC	1,000	15 A	15 A	1.5	6	-40° to 158°F	3 ¼ in	3 ¼ in	3 ¼ in	LC2100	**52ZW32**
Turn-Lock Mounting; Polypropylene Housing Material											
120V AC	1,000	15 A	8.3 A	0.5	15	-40° to 158°F	2 ¾ in	3 in	3 in	LC4521LA	**13E066**
208 to 277V AC	4,155	15 A	8.3 A	0.5	15	-20° to 104°F	2 ¾ in	3 in	3 in	LC4523	**13E067**
208 to 277V AC	4,155	15 A	8.3 A	0.5	15	-20° to 104°F	2 ¾ in	3 in	3 in	LC4523LA	**13E068**
480V AC	7,200	15 A	8.3 A	0.5	15	-20° to 104°F	2 ¾ in	3 in	3 in	LC4535LA	**13E069**
Wall Mounting; Polycarbonate Housing Material											
120 to 277V AC	1,000	6 A	6 A	1.5	4.50	-40° to 158°F	2 ¼ in	1 ⁵⁄₁₆ in	1 ¼ in	EK4336S	**710N35**
Accessories											
Photo Control Receptacle Mount										K121	**13E053**
Photo Control Receptacle with Bracket										K122	**13E055**
Photo Control Receptacle with Wire Leads, For use with Locking Plug Type										K121-30	**13E054**
Photo Control Shorting Cap										SK4500K	**55VD66**

** Head also swivels and includes a light-level shield. † Die-cast housing.*

483A24

4JNP2

4JNP7

4JNP5

4JNP9

4JNU5

4JNR2

4JNR8

Photocontrols

TORK nsi

FIXED, DIE-CAST ALUMINUM

Specification-grade contactors feature heavy-duty housing and base; gasketed for max. weather protection. For parking lot and building perimeter lighting and controlling outdoor signage lighting.

LEXAN

Material screens out ultraviolet rays for long service life.

Fixed- and Swivel-Mount—Impact- and vandal-resistant. Ultrasonically welded for max. strength. For flood and patio lamps and decorative lighting.

Flush-Mount—Mount in a weatherproof junction box for post lanterns and lighting fixtures. 4JNR2 includes single gang cover plate and gasket.

TURN-LOCK

Heavy-duty enclosures use high-impact UV-stabilized polypropylene materials for long service life. Color coded for voltage designation. Positive snap-action relays reduce bounce and prolong contact life.

Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Color	Temp. Range	L	W	D	Mfr. Model	Item No.
Flush/Box Mounting; Aluminum Housing Material												
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	2.25	Silver	-40° to 140°	1 ³³⁄₆₄ in	1 ³¹⁄₃₂ in	½ in	2119A	**483A24** #
½ in Conduit, Fixed Mounting; Lexan(R) Housing Material												
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	3 ½ in	1 ⅝	1 ⅝ in	2000	**4JNP2** #
208 to 277V AC	4,620	16.7 A	10 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	3 ½ in	1 ⅝	1 ⅝ in	2000-2	**4JNP3** #
½ in Conduit, 180° Swivel Mounting; Lexan(R) Housing Material												
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ⅞ in	1 ⅝ in	1 ⅝ in	2021	**4JNP7** #
208 to 277V AC	4,620	16.7 A	10 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ⅞ in	1 ⅝ in	1 ⅝ in	2022	**4JNP8** #
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ½ in	1 ⅝	1 ⅝ in	2001	**4JNP5** #
208 to 277V AC	4,620	16.7 A	10 A	1.0 to 5.0	3 to 15	Gray	-40° to 140°F	4 ½ in	1 ⅝	1 ⅝ in	2002	**4JNP6** #
480V AC	7,500	15 A	10 A	1.0 to 5.0	3 to 15	Tan	-40° to 140°F	3 ½ in	1 ¾ in	2 ½ in	2018	**23NX06**
Flush/Box Mounting; Lexan(R) Housing Material												
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	3 to 15	Black	-40° to 140°F	2 in	1 ⅛ in	1 ⁴⁵⁄₆₄ in	3000	**4JNP9** #
120V AC	2,000	16.7 A	15 A	1.0 to 5.0	3 to 15	Black	-40° to 140°F	4 ½ in	2 ¾ in	1 ⅝ in	3010	**4JNR2** ‡#
208 to 277V AC	4,620	16.7 A	10 A	1.0 to 5.0	3 to 15	Black	-40° to 140°F	2 in	1 in	1 ½ in	3002	**4JNR1** #
Turn-Lock Mounting; Polycarbonate Housing Material												
105 to 305V AC	1,000	8.3 A	15 A	1.5	1.5	Blue	-40° to 158°F	3 ³⁄₁₆ in	3 ³⁄₁₆ in	2 in	5237-UL	**31EK23** #
Turn-Lock Mounting; Polypropylene/Acrylic Housing Material												
105 to 130V AC	3,600	25 A	40 A	1.5	2.25	Beige/Gray	-40° to 158°F	8 ¹⁵⁄₁₆ in	5 ¼ in	4 ⅝ in	5403A	**4JNU5** #
208 to 240V AC	3,600	14.4 A	40 A	1.5	2.25	Beige/Blue	-40° to 158°F	8 ¹⁵⁄₁₆ in	5 ¼ in	4 ⅝ in	5404A	**4JNU6** #
Accessories												
Shorting Cap (Closes Primary Circuit), Turn Lock, Weatherproof											5500	**4JNR8**
Photoelectric Control Receptacle, Turn Lock, 120-480V, Includes #14 Leads, Mounting Bracket and Screw											2224	**4JNV1**
Photoelectric Control Receptacle, Turn Lock, 120-480V, Includes #12 Leads, Plastic Housing, Mounting Bracket and Locknut with ½" NPT											2421	**4JNV2**

‡ Includes plate. # For use with LED lighting.

Photocontrols

Dayton

- Temp. range: -40° to 158 °F
- Built-in delay

26WA97 26WA80 26WA79 26WA77 26WA92 26WA82 26WA85 26WA89 26WA99 26WA93

Voltage	Max. Wattage	Max. Incandescent Amps	Max. Ballast Amps	Foot Candles On	Foot Candles Off	Color	L	W	D	Item No.
Fixed, Polycarbonate										
120V AC	720	6 A	6 A	10.0 to 20.0	30 to 60	Translucent	1 ¾ in	1 ¾ in	1 ⅞ in	**26WA97**
120 to 277V AC	1,662	6 A	6 A	10.0 to 20.0	30 to 60	Translucent	1 ¾ in	1 ¾ in	1 ⅞ in	**26WA98**
½ in Conduit, Flush, Polycarbonate										
120V AC	1,800	15 A	9.2 A	10.0 to 20.0	30 to 60	Gray	2 ⅞ in	1 ⅓ in	1 ⅓ in	**26WA80**
120V AC	1,800	15 A	9.2 A	10.0 to 20.0	30 to 60	Black	3 19⁄64 in	1 19⁄64 in	1 19⁄64 in	**26WA90**
208 to 277V AC	1,800	9 A	4.6 A	10.0 to 20.0	30 to 60	Gray	2 ⅞ in	1 ⅓ in	1 ⅓ in	**26WA81**
208 to 277V AC	1,800	6.5 A	4 A	10.0 to 20.0	30 to 60	Black	3 ⅜ in	1 ⅓ in	1 ⅓ in	**26WA79**
½ in Conduit, Flush, Die-Cast Aluminum										
120V AC	2,000	16.7 A	16.7 A	10.0 to 20.0	30 to 60	Gray	3 in	2 in	1 ½ in	**26WA77**
208 to 277V AC	2,000	7.2 A	7.2 A	10.0 to 20.0	30 to 60	Gray	3 in	2 in	1 ½ in	**26WA78**
⅜ in Male Pipe Threaded, Polycarbonate										
120V AC	1,800	15 A	9.2 A	10.0 to 20.0	30 to 60	Black	2 ⅛ in	1 ⅝ in	1 ⅛ in	**26WA82**
120V AC	1,800	15 A	9.2 A	10.0 to 20.0	30 to 60	Black/Gray	2 ⅛ in	1 ⅜ in	1 ⅛ in	**26WA84**
208 to 277V AC	2,000	7.5 A	7.5 A	10.0 to 20.0	30 to 60	Black	2 ⅛ in	1 ⅝ in	1 ⅛ in	**26WA83**
½ in Male Pipe Thread, Polycarbonate										
120V AC	1,800	15 A	9.2 A	10.0 to 20.0	30 to 60	Gray	2 ⅜ in	1 ⅜ in	1 ⅜ in	**26WA92**
120V AC	2,000	16.7 A	16.7 A	10.0 to 20.0	30 to 60	Gray	3 in	2 in	1 ½ in	**26WA93**
200 to 240V AC	1,800	9 A	4.6 A	10.0 to 20.0	30 to 60	Black	3 ⅜ in	1 ⅜ in	1 ⅜ in	**26WA91**
208 to 277V AC	2,000	7.2 A	7.2 A	10.0 to 20.0	30 to 60	Gray	3 in	2 in	1 ½ in	**26WA94**
Turn-Lock, Polycarbonate										
120V AC	1,800	15 A	8.3 A	10.0 to 20.0	30 to 60	Gray	3 ⅜ in	3 ⅜ in	2 ⅜ in	**26WA85**
120 to 277V AC	1,000	8.3 A	15 A	10.0 to 20.0	30 to 60	Blue	3 ⅕ in	3 ⅜ in	2 ⅜ in	**26WA96**
120 to 277V AC	1,000	8.3 A	15 A	10.0 to 20.0	30 to 60	Blue	3 ⅜ in	3 ⅜ in	2 ⅜ in	**26WA87**
480V AC	1,800	15 A	15 A	10.0 to 20.0	30 to 60	Yellow	3 ⅜ in	3 ⅜ in	2 ⅜ in	**26WA86**
Accessories										
Photo Control Shorting Cap										**26WA88**
Photo Control Receptacle with Bracket										**26WA89**
Photo Control Receptacle with Housing										**26WA99**

4XGV9

INTERMATIC

Electronic 24-Hr. and 7-Day Timers

- Steel enclosures
- Backup maintains program and time
- Enclosures have lock hasp
- Dim.: 7¾"L x 5"W x 3"D indoor; 9⅜"L x 5½"W x 3⅝"D outdoor
- Operating temp. range: -40° to 155°F

Easy programming with slide switches and push buttons. Manual override does not interfere with program. For HVAC equipment, indoor and outdoor lighting, and other energy-consuming equipment. UL Listed and CSA Certified.

No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	No. of Pulse Events	Pulse Duration	Enclosure	Mfr. Model	NEMA 1 Item No.	NEMA 3R Item No.
24 hr/365 Days Timers, Min. Time Setting: 1 min, Max. Time Setting: 24 hr												
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Metal	ET2105C	**52RU32**	**52RU34**
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Plastic	ET2105CP	—	**52RU33**
1	SPDT	120 to 277V AC	20 A	1	2	96	0	—	Metal	ET2115C	**52RU35**	**52RU37**
1	SPDT	120 to 277V AC	20 A	1	2	96	0	—	Plastic	ET2115CP	—	**52RU36**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2125C	**52RU38**	**52RU40**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2125CP	—	**52RU39**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2145C	**52RU41**	**52RU43**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2145CP	—	**52RU42**
24 hr Timers, Min. Time Setting: 1 min, Max. Time Setting: 24 hr												
1	SPST-NO	120 to 277V AC	30 A	1	2	28	0	—	Plastic	EP100C	—	**30UJ96**
1	SPST	120 to 277V AC	30 A	1	2	14	0	—	Metal	ET1105C	**4XGV9**	—
2	SPST	120 to 277V AC	30 A	1	2	14	14	2 sec	Metal	ET1125C	**6KFF6**	—
7/365 Days Timers, Min. Time Setting: 1 min, Max. Time Setting: 7 day												
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Metal	ET2705C	**52RU44**	**52RU46**
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Plastic	ET2705CP	—	**52RU45**
1	SPDT	120 to 277V AC	30 A	1	2	96	0	—	Metal	ET2715C	**52RU47**	**52RU49**
1	SPDT	120 to 277V AC	30 A	1	2	96	0	—	Plastic	ET2715CP	—	**52RU48**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2725C	**52RU50**	**52RU52**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2725CP	—	**52RU51**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2745C	**52RU53**	**52RU55**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2745CP	—	**52RU54**
7 Days Timers, Min. Time Setting: 1 min, Max. Time Setting: 7 day												
1	SPST	120 to 277V AC	30 A	1	2	14	0	—	Metal	ET1705C	**3FXA1**	—
2	SPST	120 to 277V AC	30 A	1	2	14	14	2 sec	Metal	ET1725C	**3FXA2**	—
Astro 7/365 Days Timers, Min. Time Setting: 1 min, Max. Time Setting: 7 day												
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Metal	ET2805C	**52RU56**	**52RU58**
1	SPST	120 to 277V AC	30 A	1	2	96	0	—	Plastic	ET2805CP	—	**52RU57**
1	SPDT	120 to 277V AC	20 A	1	2	96	0	—	Metal	ET2815C	**52RU59**	**52RU61**
1	SPDT	120 to 277V AC	20 A	1	2	96	0	—	Plastic	ET2815CP	—	**52RU60**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2825C	**52RU62**	**52RU64**
2	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2825CP	—	**52RU63**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Metal	ET2845C	**52RU65**	**52RU67**
4	SPST	120 to 277V AC	30 A	1	2	96	48	2 sec	Plastic	ET2845CP	—	**52RU66**

Astronomical Lighting Controls

INTERMATIC

- Backup maintains program and time
- Steel enclosures and polycarbonate where noted have lock hasp

Timers automatically adjust daily for changing sunrise and sunset times, eliminating the need for separate photocontrol devices.

ET8000 SERIES

- Enclosures have ½" to ¾" knockouts (1 on the back and each side, 2 on bottom)
- Operating temp. range: -40° to 155°F

Automatically switch loads according to the preset weekly schedule with to-the-minute accuracy. Manual override. Automatic sunrise and sunset settings allow flexibility for applications where load switching differs each day of the week. CSA Certified. UL Listed.

ET90000 SERIES

- Operating temp. range: -40° to 120°F

Permits up to 4000 scheduled On/Off operations; turns On/Off at sunrise or sunset without a photo control device. Provides to-the-second accuracy. Ethernet port allows remote programming via PC; standard on all timers with 4 or more channels and on 1- or 2-channel timer models 13D101, 13D103, 13D105, and 13D107. Copies programming to other time switches for backup purposes via USB cable. Built-in supercapacitor maintains program during power outages. CSA Certified. UL Listed.

1JLG2

No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	No. of Pulse Events	Pulse Duration	Backup Time	Mfr. Model	NEMA 1 Item No.	NEMA 3R Item No.
ET8000 Series, Astro 7 Days Timers, Min. Time Setting: 1 min, Max. Time Setting: 7 day												
1	SPST	120 to 277V AC	30 A	1	2	28	—	—	3 yr	ET8015C	**1JLG2**	—
2	SPST	120 to 277V AC	30 A	1	2	28	28	2 sec	3 yr	ET8215C	**1JLG3**	—
ET90000 Series, Astro 365 Days Timers, Min. Time Setting: 1 sec, Max. Time Setting: 365 day												
1	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90115C	**13D099**	**13D102**
1	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90115CE	**13D101** *	**13D103** *
2	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90215C	**13D104**	**13D106**
2	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90215CE	**13D105** *	**13D107** *
4	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90415C	—	**13E029** *
8	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET90815C	—	**13E030** *
12	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET91215C	—	**13E032** *
16	SPDT	120 to 277V AC	30 A	NC: ¼, NO: 1	NC: ½, NO: 2	4000	4000	1 sec to 24 hr	100 hr	ET91615C	—	**13E031** *
ET90000 Accessories												
Door Assembly with Electronics											**13E033**	—
Ethernet Module											**13E034**	—
Relay Module											**13E035**	—

** Includes Ethernet module.*

ET90000 Series
13D099

31A067

4JNE4

4JNG8

TORK nsi

Electronic Timers

Digital programmable switches provide precise control. All feature capacitor power outage backup, permanent schedule retention, and locking hasp. All are UL Listed and C-UL Listed or CSA Certified. Meet Calif. Title 24 energy efficiency standards unless noted.

No. of Channels	Contact Form	Voltage	Amps	HP @ 120V	HP @ 240V	Max. On/Off Cycles	Min. Time Setting	Max. Time Setting	No. of Pulse Events	Pulse Duration	Enclosure	Backup Time	Mfr. Model	Item No.
7 Days														
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	7 day	—	—	Plastic	100 hr	EW101B	**4JNE7**
1	DPST	120 to 277V AC	40 A	1	2	20	1 min	7 day	—	—	Plastic	100 hr	EW103B	**4JNE8**
1	DPDT	120 to 277V AC	20 A	1	2	28	1 min	24 hr	56	1 sec to 24 hr	Plastic	7 day	DGS100A	**31A067**
1	DPDT	120 to 277V AC	20 A	1	2	28	1 min	7 day	56	—	Metal	7 day	DGU100A-Y	**31A069**
1	SPDT Momentary	120 to 277V AC	20 A	1	2	28	1 min	7 day	56	—	Plastic	7 day	DGUM100A	**31A070**
2	(2) SPST, DPST	120 to 277V AC	30 A	1	2	—	1 min	7 day	—	3 sec	Plastic	4 day	EWZ201C	**173T56**
1	DPDT	120 to 277V AC	20 A	1	2	56	1 min	24 hr	56	—	Plastic	7 day	DGLC100A-NC	**52ZC52**
1	DPDT	120 to 277V AC	40 A	Not Rated	Not Rated	7	1 min	14 hr	—	—	Plastic	—	DTU40	**52ZC56**
1	DPDT	120 to 277V AC	40 A	NC: ¼, NO: 1	NO: 2	—	—	7 day	—	1 min to 23 hr 59 min	Plastic	—	WFTU40	**783HU9**
24 hr														
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	24 hr	—	—	Plastic	100 hr	E101B	* **4JNE4**
1	DPST	120 to 277V AC	40 A	1	2	20	1 min	24 hr	—	—	Plastic	100 hr	E103B	* **4JNE5**
1	SPST	120V AC	30 A	1	2	10	1 min	24 hr	20	—	Plastic	100 hr	E101PB	* **4JNF1**
12	SPDT	120 to 277V AC	20 A	1	2	128	1 min	24 hr	128	1 sec to 24 hr	Metal	1 yr	ELC712	**52ZC53**
8	SPDT	120 to 277V AC	20 A	1	2	128	1 min	24 hr	128	1 sec to 24 hr	Metal	1 yr	ELC78	**52ZC54**
4	SPDT	120 to 277V AC	20 A	1	2	128	1 min	24 hr	128	1 sec to 24 hr	Metal	1 yr	ELC74	**52ZC55**
2	SPDT	120V AC	16 A	—	—	7	1 min	24 hr	8	—	Plastic	—	DIN200B	**52ZC58**
365 Days														
2	SPDT	120 to 277V AC	20 A	1	2	49	1 min	7 day	99	—	Plastic	7 day	DWZ200B	**45EJ73**
Astro														
2	SPDT	120 to 277V AC	20 A	1	2	28	1 min	7 day	56	—	Plastic	7 day	DGLC200A-NC	**31A071**
2	SPDT	120 to 277V AC	20 A	—	—	99 Astronomic, Offset 240 min.	1 min	365 day	—	Momentary	Plastic	7 day	DZM200BP	**4JNH5**
Astro 7 Days														
1	SPST	120 to 277V AC	40 A	1	2	20	1 min	7 day	—	—	Plastic	100 hr	EWZ101	**4JNF4**
1	SPDT	120 to 277V AC	30 A	1	2	20	1 min	7 day	—	—	Plastic	100 hr	EWZ120	**4JNF6**
Astro 365 Days														
1	DPDT	120 to 277V AC	20 A	1	2	99 Astronomic, Offset 240 Min.	1 min	365 day	99	—	Plastic	7 day	DWZ100B	**4JNH3**
1	DPDT	120 to 277V AC	30 A	1	2	99 Astronomic, Offset 240 min	1 min	365 day	99	1 to 99 sec	Plastic	7 day	DZS100BP	**4JNG8**
2	SPDT	120 to 277V AC	30 A	1	2	99 Astronomic, Offset 240 min.	1 min	365 day	99	1 to 99 sec	Plastic	7 day	DZS200BP	**4JNG9**
4	SPDT	120 to 277V AC	20 A	1	2	99 Astronomic, Offset 240 min.	1 min	365 day	99	1 to 99 sec	Plastic	7 day	DZS400BP	**4JNH1**
Accessories														
Photocell, 180° Swivel, For Use With TORK Series DGU100A and DGUM100A Timers, ½" Conduit Hub Mount, 4⅛" L													EPC-A	**31A072**
Photocell, 180° Swivel, For Use With DGU and DGLC Series, ½" Conduit Hub Mount, 3¾" L													EPC1	**4JNG5**

***Does not meet CA Title 24.**

30YJ34

24-Hr. Electromechanical Timers

TORK nsi

Switches provide automatic On/Off control when operation is required at the same time every day. Also feature manual override. Suitable for lighting, pumps, signs, air conditioning, water heaters, and fans.

Voltage	No. of Poles	Contact Form	Encl. Type	NEMA Rating	Amps	Day Skipper	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	H	W	D	Mfr. Model	Item No.
120, 208 to 277V AC	—	DPST	—	—	40 A	—	20 min	24 hr	12	—	4 11/16 in	3 ¼ in	1109A-O	**483A21**
120, 208 to 277V AC	—	—	—	—	40 A	—	20 min	24 hr	12	—	4 11/16 in	2 15/16 in	7209A	**483A22**
120, 208 to 277V AC	—	—	—	—	40 A	—	15 min	24 hr	48	—	4 11/16 in	2 15/16 in	8009A	**483A23**
120V AC	1	SPST-NO	Steel	1	40 A	No	20 min	22 hr 45 min	12	7 15/16 in	4 11/16 in	2 15/16 in	1101B	**30YJ34**
120V AC	2	DPST-NO	Steel	1	40 A	No	20 min	22 hr 45 min	12	7 15/16 in	4 11/16 in	2 15/16 in	1103B	**30YJ38**
208 to 277V AC	2	DPST-NO	Steel	1	40 A	No	20 min	22 hr 45 min	12	7 15/16 in	4 11/16 in	2 15/16 in	1104B	**30YJ40**
208 to 277V AC	3	3PST	Steel Indoor/ Outdoor	3	40 A	Yes	1 min	22 hr 50 min	12	8 ¼ in	5 ¼ in	5 ¼ in	7302	**52ZC61**
480V AC	1	SPDT-NO/NC	Steel	1	20 A	No	15 min	23 hr 45 min	48	6 ¼ in	5 in	3 ¾ in	8001U	**30YJ52**
480V AC	—	—	Metal Indoor	1	20 A	—	15 min	24 hr	48	—	—	—	8007U	**56HN94**

20XF49

20XF60

20XF80

Surface/DIN Rail or Flush Mount Time Switches

INTERMATIC

- 21A SPDT contacts
- Captive trippers
- True clock face
- Clear plastic dust cover

These switches are designed to be mounted inside a control panel and can accommodate surface/DIN Rail or flush/panel mounting. Ideal for single-phase applications like lighting control, HVACR, pumps, motors, fan controls, access controls, OEM applications, agricultural facilities, and general purpose electrical circuits.

Description/ Special Features	Min. Time Setting	Max. Time Setting	H	W	D	Voltage	Mfr. Model	Item No.
24-Hour, Surface/DIN Rail Mount								
Battery Backup, Quartz Motor	15 min	23 hr 45 min	4 51/64 in	3 5/16 in	3 5/16 in	208/240V AC	MIL72AQTUZ-240	**20XF49**
Override Switch, Synchronous Motor	15 min	23 hr 45 min	4 19/32 in	3 5/16 in	3 5/16 in	24V AC	MIL72ASTUZH-24	**20XF56**
Override Switch, Synchronous Motor	15 min	23 hr 45 min	4 19/32 in	3 5/16 in	3 5/16 in	208/240V AC	MIL72ASTUZH-240	**20XF57**
24-Hour, Flush Mount								
Battery Backup, Quartz Motor	15 min	23 hr 45 min	3 51/64 in	3 5/16 in	2 5/16 in	24V AC	MIL72EQTUZ-24	**20XF60** *
Synchronous Motor	15 min	23 hr 45 min	3 51/64 in	3 5/16 in	2 5/16 in	24V AC	MIL72ESTUZ-24	**20XF65**
Override Switch, Synchronous Motor	15 min	23 hr 45 min	3 51/64 in	3 5/16 in	2 5/16 in	120V AC	MIL72ESTUZH-120	**20XF67**
7-Day, Surface/DIN Rail Mount								
Override Switch, Synchronous Motor	2 hr	6 days 22 hr	4 19/32 in	3 5/16 in	3 5/16 in	120V AC	MIL72ASWUZH-120	**20XF78**
Override Switch, Synchronous Motor	2 hr	6 days 22 hr	4 19/32 in	3 5/16 in	3 5/16 in	208/240V AC	MIL72ASWUZH-240	**20XF80**

***Rated 12 to 24VAC/DC.**

INTERMATIC

24-Hour and 7-Day Electromechanical Timers

- Heavy-duty clutchless gears prevent slipping
- Contacts are tungsten-rated to handle inrush currents 10 times their rating

Enclosures feature lock hasp and knockouts. Snap-out timing mechanism with manual On/Off override does not interfere with program. Day skipper adds the flexibility of omitting any day or days from the program. Self-lubricating, synchronous motors. Outdoor enclosures are rated NEMA 3R.

Note: Timers include trippers. Extra trippers are available on this page.

MULTIOPERATION

- Operating temp. range: -40° to 130°F

Provide up to 48 On/Off settings per day with 96 permanently fixed trippers.

7-DAY

Allow precise time-of-day scheduling with 7-day dial. Timers allow different settings for each day of the week.

1-Pole Steel Indoor 2E021

2-Pole Steel Outdoor 2E259

2-Pole Plastic Outdoor 4E025

Multioperation 1-Pole Steel Indoor 2E026

Voltage	No. of Poles	Contact Form	Encl. Type	NEMA Rating	Amps	Day Skipper	Min. Time Setting	Max. Time Setting	Extra Trippers	H	W	D	Mfr. Model	Item No.
24-Hour														
120V AC	1	SPST-NO	Steel	1	40 A	No	1 hr	23 hr	2E054	7 13/16 in	5 in	3 in	T101	**2E021**
120V AC	1	SPST-NO	Plastic	3R	40 A	No	1 hr	23 hr	2E054	9 7/16 in	5 ½ in	3 13/16 in	T101P	**4E023**
120V AC	1	SPST-NO	Steel	1	40 A	Yes	1 hr	23 hr	11Z965	7 13/16 in	5 in	3 in	T171	**2E024**
120V AC	1	SPST-NO	Steel	3R	40 A	No	1 hr	23 hr	2E054	9 7/16 in	5 ½ in	3 5/8 in	T101R	**2E258**
120V AC	2	DPST-NO	Steel	1	40 A	No	1 hr	23 hr	2E054	7 13/16 in	5 in	3 in	T103	**2E022**
120V AC	2	DPST-NO	Plastic	3R	40 A	No	1 hr	23 hr	2E054	9 7/16 in	5 ½ in	3 13/16 in	T103P	**4E024**
120V AC	2	DPST-NO	Steel	1	40 A	Yes	1 hr	23 hr	11Z965	7 13/16 in	5 in	3 in	T173	**6X759**
120V AC	2	DPST-NO	Steel	3R	40 A	Yes	1 hr	20 hr	11Z965	9 3/8 in	5 ½ in	3 5/8 in	T173R	**3FWY7**
120V AC	4	4PST-NO	Steel	3R	40 A	Yes	1 hr	23 hr	11Z965	9 7/16 in	5 ½ in	3 5/8 in	T1471BR	**6X766**
120V AC	1	SPDT	Steel	1	40 A	No	1 hr	23 hr	Mfr. No. 156T1978A	8 19/32 in	5 ½ in	3 ½ in	T105	**20XE73**
120V AC	1	SPST	Polycarbonate	3R	40 A	No	1 hr	23 hr	Mfr. No. 156T1978A	11 ½ in	7 1/8 in	4 in	T101PCD82	**20XE81**
120V AC	2	DPST	Polycarbonate	3R	40 A	No	1 hr	23 hr	Mfr. No. 156T1978A	11 ½ in	7 1/8 in	4 in	T103PCD82	**20XE82**
125V AC	2	DPST-NO	Steel	3R	40 A	No	1 hr	23 hr	2E054	7 ¾ in	5 in	3 in	T103R	**3FWY6**
208 to 277V AC	1	SPST-NO	Steel	1	40 A	No	1 hr	24 hr	2E054	7 ¾ in	5 in	3 in	T102	**4XGW7**
208 to 277V AC	2	DPST-NO	Steel	1	40 A	No	1 hr	23 hr	2E054	7 13/16 in	5 in	3 in	T104	**2E351**
208 to 277V AC	2	DPST-NO	Steel	3R	40 A	No	1 hr	23 hr	2E054	9 7/16 in	5 ½ in	3 5/8 in	T104R	**2E259**
208 to 277V AC	2	DPST-NO	Plastic	3R	40 A	No	1 hr	23 hr	2E054	9 7/16 in	5 ½ in	3 13/16 in	T104P	**4E025**
208 to 277V AC	2	DPST-NO	Steel	1	40 A	Yes	1 hr	23 hr	11Z965	7 13/16 in	5 in	3 in	T174	**6X760**
208 to 277V AC	2	DPST-NO	Steel	3R	40 A	Yes	1 hr	20 hr	11Z965	9 3/8 in	5 ½ in	3 5/8 in	T174R	**3FWY8**
208 to 277V AC	4	4PST-NO	Steel	3R	40 A	Yes	1 hr	23 hr	11Z965	9 7/16 in	5 ½ in	3 5/8 in	T1472BR	**4A214**
208 to 277V AC	2	SPDT	Steel	3R	40 A	No	1 hr	23 hr	Mfr. No. 156T1978A	10 3/32 in	6 5/8 in	4 in	T106R	**20XE74**
208 to 277V AC	2	DPST	Polycarbonate	3R	40 A	No	1 hr	23 hr	Mfr. No. 156T1978A	11 ½ in	7 1/8 in	4 in	T104PCD82	**20XE83**
24-Hour, Multioperation														
120 to 277V AC	2	DPDT-2NO/2NC	Plastic	3R	40 A	No	15 min	23¾ hr	—	8 13/16 in	6 5/8 in	2 7/8 in	GM40AV	**6KFG3**
120V AC	1	SPDT	Steel	1	20 A	No	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1905	**2E026**
120V AC	1	SPDT	Steel	1	20 A	Yes	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1975	**6X761**
120V AC	1	SPDT	Steel	3R	20 A	Yes	15 min	23¾ hr	—	9 7/16 in	5 ½ in	3 in	T1975R	**4WZ27**
208 to 277V AC	1	SPDT	Steel	1	20 A	No	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1906	**2E389**
208 to 277V AC	1	SPDT	Steel	1	20 A	Yes	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1976	**6X762**
208 to 277V AC	1	SPDT	Steel	3R	20 A	Yes	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1976R	**4XGW8**
480V AC	1	SPDT	Steel	1	20 A	No	15 min	23¾ hr	2E132	7 ¾ in	5 in	3 in	T1905E	**2A512**
7-Day														
120V AC	1	SPDT	Steel	1	20 A	No	2 hr	22 hr	2E132	7 ¾ in	5 in	3 in	T2005	**2A210**
125V AC	4	4PST-NO	Steel	1	40 A	Yes	3.5 hr	21 hr	11Z966	12 ½ in	8 ¼ in	4 in	T7401B	**2A208**
125V AC	4	DPDT	Steel	1	40 A	Yes	3.5 hr	21 hr	11Z966	12 ½ in	8 ¼ in	4 in	T7801B	**2E214**
7-Day with Spring Wound Carry-Over (Maintains Time Setting Up to 16 hr. During Power Outages)														
120V AC	4	4PST-NO	Steel	1	40 A	Yes	3.5 hr	21 hr	11Z966	12 ½ in	8 ¼ in	4 in	T7401BC	**2A209**
120V AC	4	DPDT	Steel	1	40 A	Yes	3.5 hr	21 hr	11Z966	12 ½ in	8 ¼ in	4 in	T7801BC	**6X757**

INTERMATIC

TORK nsi

Timer Replacement Parts

2E054

2E055

2E132

30YJ54

1PNJ8

2E354

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Replacement/Extra Trippers				
1 Pair On/Off, For Use With Intermatic Series T51401B, T51401BC, WH-40, T30404R, T7401B, T103, T101R, T104R, T104, T104R201 to T101M, T1472BR, T103P to T104P201, T10404R to 89026-08-2 Timers	Intermatic	156T1961A	**2E054**	1
For Use With Intermatic T185 Series Timers	Intermatic	156T1960A	**2E055**	1
For Use With 2A206, 2A512, 2E026, 2E130, 2E131, 2E355 to 2E357, 2E389, 2E408, 6X757, 6X761, 6X762	Intermatic	156T2978A	**2E132**	12
For Use With Intermatic Series T170, T1400, T1800 Timers	Intermatic	156T1948A	**11Z965**	1
For Use With Intermatic Series T7400, T7800, T51000 Timers	Intermatic	156T2548A	**11Z966**	7
For Use With TORK Series 1100 and 7000 Timers	Tork	P47	**30YJ54**	1
Replacement Motors				
120V AC, For Use With Intermatic T1900, T8800, and R8800 Series Timers	Intermatic	WG730	**1PNJ8**	1
125V AC, For Use With Intermatic T100, T170, T180, T100R201, T100R301, WH30, and WH40 Series Timers	Intermatic	WG1570	**1PNK1**	1
208 to 277V AC, Tolerance of Plus/Minus 10%, For Use With Intermatic T100, T170, T180, T100R201, T100R301, WH30, and WH40 Series Timers	Intermatic	WG1573	**1PNK2**	1
208/240/277V AC, For Use With Intermatic T1900, T8800, and R8800 Series Timers	Intermatic	WG733	**1PNJ9**	1
120V AC, For Use With TORK Series 1100 and 7000 Timers	Tork	101	**30YJ55**	1
208 to 277V AC, For Use With TORK Series 1100 and 7000 Timers	Tork	201	**30YJ56**	1
Timer Mechanisms				
for Replacement or Specialized Applications, Time Switches; SPST-NO, 125, For Use With Nos. 2E021, 2E258, 4E023	Intermatic	T101M	**2E354**	1
for Replacement or Specialized Applications, Time Switches; DPST-NO, 125, For Use With Nos. 2E022, 4E024	Intermatic	T103M	**4A213**	1
for Replacement or Specialized Applications, Time Switches; DPST-NO, 250, For Use With Nos. 2E351, 2E259, 4E025	Intermatic	T104M	**2E353**	1

6X769

1A573

4WZ08

INTERMATIC TORK nsi

Water Heater Timers

- Enclosures have lock hasp
- Electronic models feature LED and battery backup

Automatically turn off water heater at designated times. UL Listed and CSA Certified.

No. of Poles	Contact Form	Voltage	Amps	HP @ 240V	Encl. Type	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	No. of Trippers Incl.	H	W	D	Brand	Mfr. Model	Item No.
Electromechanical															
2	DPST	208 to 240V AC	40 A	5 hp	Steel	60 min	23½ hr	12	2	7 ¾ in	5 in	3 in	Intermatic	T104-20	**6X769**
2	DPST	208 to 240V AC	40 A	5 hp	Steel	60 min	23½ hr	12	2	7 ¾ in	5 in	3 in	Intermatic	WH-40	**1A573**
2	DPST-NO	208 to 277V AC	40 A	5 hp	Steel	20 min	22 hr	12	2	7 15⁄16 in	4 11⁄16 in	2 15⁄16 in	Tork	WH2B	**30YJ44**
Electronic															
1	SPST	120V AC	30 A	—	Metal	1 min	24 hr	12	—	7 ¾ in	5 in	3 in	Intermatic	EH10	**20XE67**
2	DPST	240V AC	30 A	1 ½	Metal	1 min	7 day	42	—	7 ¾ in	5 in	3 in	Intermatic	EH40	**4WZ08**

1A850

4E026

Swimming Pool Timers

INTERMATIC

24-hr. time switch.

MECHANICAL

Note: Extra tripper 2E054 is available separately; see page 417.

Timing/Control Panel and Timing Center

- Outdoor NEMA 3R steel enclosures with lock hasp
- Dim.: 1A850, 16½"L x 10⅞"W x 4½"D; 6X767, 10¾"L x 12"W x 4½"D

Timing/Heating Circuit Centers

- Outdoor NEMA 3R enclosures with lock hasp; steel 6X768, plastic 4E026
- Dim.: 6X768, 10¾"L x 12"W x 4½"D; 4E026, 9⅜"L x 5½"W x 3⅝"D

DIGITAL

- Outdoor NEMA 3R metal enclosure
- SPST contacts
- Dim.: 9⅜"L x 2"W x 2³⁄16"D

Description	No. of Poles	Contact Form	Contact HP @ 240V	Amps	Voltage	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	Mfr. Model	Item No.
Mechanical										
Timing/Control Panel	2	DPST-NO	5 hp	30 A	240V AC	1 hr	23 hr	12	T30404R	**1A850**
Timing Center	2	DPST-NO	5 hp	40 A	208 to 277V AC	1 hr	23 hr	12	T10404R	**6X767**
Dual Timing/Heating Circuit Center	2	DPST-NO	5 hp	40 A	208 to 277V AC	1 hr	23 hr	12	T12404R	**6X768**
Timing/Heating Circuit Center	2	DPST-NO	5 hp	40 A	208 to 277V AC	1 hr	23 hr	12	T104P201	**4E026**
Digital										
3 Program (Pump/Heating/Lighting)	3	SPST	—	20 A	120/240V AC	1 min	24 hr	3	PE153	**3FWY5**

Irrigation/Sprinkler Timer

INTERMATIC

- Raintight plastic NEMA 3R enclosure with lock hasp
- Combination of ½" to ¾" knockouts

Max. 60 daily cycles. 14-day skipper feature omits irrigation/sprinkling on selected days and also permits every-other-day operation. Includes 34 trippers.

Note: Extra tripper 2E132 is available separately, see page 417.

No. of Poles	Contact Form	Input Voltage	Encl. Type	Day Skipper	Inductive Contact Rating (A)	HP	Min. Time Setting	Max. Time Setting	Max. Time Cycle	Max. On/Off Cycles	H	W	D	Mfr. Model	Item No.
2	DPST-NO	208 to 277	Steel	Yes	25A @ 277VAC	2	12 min	23¾ hr	14 Days	30	9 ⅜ in	5 ½ in	3 ⅝ in	R8806R108C	**2A206**

Tork
10G855

485R29

Intermatic
6KFG5

Cycle Timers

TORK nsi MACROMATIC INTERMATIC

TORK®

60 captive tabs per dial provides up to 30 On/Off cycles.

PERCENTAGE CYCLE TIMERS

Tork®—Can alternately cycle 2 different loads. 2 control knobs set cycle repeat time and percentage operating time. Each knob has Hold setting for manual On/Off. Sealed for use in severe environments. UL Listed and CSA Certified.

- More than 900 jumperless cycle variations
- LED load status indicators

Intermatic®—Can be wired in series with a manual switch or time switch for time-of-day cycling applications. CSA Certified.

- 8 selectable total cycle durations: 30 sec.; 1, 3, 5, 10, 30 min.; and 1, 4 hr.
- Cycling pattern selectable from 3% to 97% of total cycle

Min. Time Setting	Max. Time Setting	Input Voltage	Amps	No. of Poles	HP @ 120V	Contact Form	NEMA Rating	Brand	Mfr. Model	Item No.
Cycle Timer										
1 min	59 min	120V AC	20 A	1	¾ hp	SPDT	1	Tork	8601	**30YJ51**
Percentage Cycle Timer										
15 min	23 hr 45 min	120V AC	20 A	1	¾ hp	SPDT	3R	Tork	8001-N	**173M77**
15 sec	24 hr	120/240V AC	20 A	1	1 hp	SPDT	4X	Tork	EJWT	**10G855**
0.03 sec	30 sec	—	10 A	1	¼ hp	SPNO	1	Macromatic	PTA2030S	**485R31**
0.03 sec	30 sec	—	10 A	1	¼ hp	SPNO	1	Macromatic	PTA2030SB	**485R32**
0.06 sec	1 min	—	10 A	1	¼ hp	SPNO	1	Macromatic	PTA2001M	**485R29**
0.06 sec	1 min	—	10 A	1	¼ hp	SPNO	1	Macromatic	PTA2001MB	**485R30**
1 sec	3 hr 52 min	120/240V AC	20 A	1	1 hp	SPST	3R	Intermatic	CT2000	**6KFG5**
75 sec	24 hr	120V AC	16 A	2	1 hp	SPDT	1	Intermatic	TALENTO121-120	**242K95**

6X765

20XE91

20XE96

45EM03

20XE97

3FWY9

20XE68

20XE69

3FWZ4

Wall Switch Timers

Compact timers replace standard wall switches. Include manual On/Off override. UL Listed and CSA Certified.

Description	Switch Type	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Color	Max. On/Off Cycles	Brand	Mfr. Model	Item No.
Electromechanical											
4 Trippers Included	1-Pole	120V AC	15	1800	30 min	30 min, 23 hr	White	12	Intermatic	E1020C	**6X765**
—	1-Pole	120V AC	15	1800	30 min	30 min, 23 hr	White	1	Intermatic	E1010	**20XE91**
—	1-Pole	120V AC	20	2500	20 min	45 min, 23 hr	White	36	Intermatic	KM2ST-1G	**20XE96**
Vacation Mode, Gangable, Includes Wall Plate	1-Pole	120V AC	20	1500	30 min	24 hr	White	24	Tork	701B	**45EM03**
—	3-Way	120V AC	20	2500	20 min	45 min, 23 hr	White	36	Intermatic	KM2STU-1G	**20XE97**
Electronic											
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120V AC	15	1800	1 min	7 day	Ivory	14	Intermatic	EI500C	**3FWY9**
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120V AC	15	1800	1 min	7 day	White	14	Intermatic	EI500WC	**3FWZ1**
Decorator, Time, Day, Load, and Status Display, 36-hr. Battery Backup	1-Pole	120V AC	15	1800	1 min	7 day	Light Almond	14	Intermatic	EI500LAC	**3FWZ2**
Astronomic, Auto DST, Neutral Wire Required, Lithium Battery Backup	3-Way	120V AC	12	1800	1 min	59 min, 23 hr, 6 day	White	7	Intermatic	EJ600	**20XE68**
Lithium Battery Backup	3-Way	120/277V AC	15	1800	1 min	59 min, 23 hr, 6 day	White	40	Intermatic	ST01	**20XE69**
Decorator, Astronomic Setting, Auto Daylight Savings, 36-hr. Battery Backup	3-Way	120/277V AC	20	1800/4155	1 min	7 day	White	40	Intermatic	EI600WC	**3FWZ4**
Decorator, Astronomic Setting, Auto Daylight Savings, 36-hr. Battery Backup	3-Way	120/277V AC	20	1800/4155	1 min	7 day	Light Almond	40	Intermatic	EI600LAC	**3FWZ5**

1JLF9

4XGV7

4JNK2

23NX05

3FWZ6

4YPF9

29RW82

Wall Switch Countdown Timers

Compact timers replace standard wall switches. UL Listed and CSA Certified.

Description	Switch Type	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Brand	WHITE Item No.	IVORY Item No.	ALMOND Item No.	LIGHT ALMOND Item No.
LED Time Left Indicator	1-Pole	120/277V AC	8.30	1000/1400	2 hr	12 hr	Hubbell	**29RW83**	**29RW81**	—	**29RW82**
LED Time Left Indicator	1-Pole	120/277V AC	8.30	1000/1400	5 min	30 min	Hubbell	**29RW87**	**29RW84**	—	**29RW85**
LED Time Left Indicator	1-Pole	120/277V AC	8.30	1000/1400	15 min	60 min	Hubbell	**29RW90**	**29RW88**	—	**29RW89**
LCD Display, Visual and Audible Warning Option	3-Way	120/277V AC	8.30	960/1200	5 min	4 hr	Hubbell	**29RW80**	—	—	—
Off, Hold, 10-20-30-60 min., Neutral Wire Required	1-Pole	120V AC	15	1800	10 min	60 min	Intermatic	**1JLF9**	—	**1JLG1**	—
Decorator, Auto Shutoff	1-Pole	120V AC	15	1800	60 min	8 hr	Intermatic	**3FWZ7**	**3FWZ6**	—	—
Off, Hold, 5-10-15-30 min., Neutral Wire Required	1-Pole	120V AC	15	1800	5 min	30 min	Intermatic	**1JLF7**	—	**1JLF8**	—
Decorator, Audible/Visual Load Pre-Off Signal, 3-Yr. Battery Backup	3-Way	120/277V AC	20	1800/4155	1 sec	24 hr	Intermatic	**4XGV7**	**4XGV5**	—	**4XGV6**
Maestro, No Neutral Required	1-Pole	120V AC	5 (3A Fan Load)	600	5 min	60 min	Lutron	**4YPG3**	**4YPF9**	—	—
Maestro Eco-Timer, No Neutral Required	1-Pole	120V AC	5 (3A Fan Load)	600	1 min	30 min	Lutron	**4YPG5**	**4YPG4**	—	—
Maestro, Neutral Required	Multi-Location	120V AC	5 (3A Fan Load)	600	5 min	60 min	Lutron	**4YPG2**	**4YPG1**	—	—
No Neutral Required	1-Pole	24/277V AC	7.25	12/150	1 min	18 hr	Tork	**4JNK2**	—	—	—
Flicker Warning Before Time Out, No Neutral Required	1-Pole	24/277V AC	7.25	12/150	1 min	18 hr	Tork	**4JNK3**	—	—	—
Auto-Off, No Neutral Required	3-Way	120/277V AC	16	380/4400	5 min	24 hr	Tork	**23NX05**	—	—	—

INTERMATIC

Spring-Wound Mechanical Timers

6X546

1XC25

- 20A inductive/7A tungsten 1 HP at 125V, 10A 2 HP at 250V, 10A at 277V

Models with Hold feature have option for continuous On. Timing mechanism has all-metal gears. Timers mount in min. 2" x 4" single-gang outlet box. Ivory and white timers require standard toggle or decorator style wall plates; see page 320.

	SILVER WALL PLATE W/WHITE KNOB					IVORY (WALL PLATE REQUIRED)				WHITE (WALL PLATE REQUIRED)			
	SPST		SPDT		DPST	SPST		SPDT	DPST	SPST		SPDT	DPST
Timing Range	No Hold Item No.	With Hold Item No.	No Hold Item No.	With Hold Item No.	No Hold Item No.	No Hold Item No.	With Hold Item No.	No Hold Item No.	No Hold Item No.	No Hold Item No.	With Hold Item No.	No Hold Item No.	No Hold Item No.
0 to 5 min	6X545	4A217	—	—	—	4WZ17	—	—	—	38D055	—	—	—
0 to 15 min	2E269	3FXA3	3FXA4	—	3FXA5	1XC25	—	—	3FXC9	38D056	38D057	—	—
0 to 30 min	2E175	3FXA6	3FXA7	—	3FXA8	1XC26	20XE93	—	4WZ15	38D058	38D059	—	38D071
0 to 60 min	6X546	2E270	3FXA9	—	—	1XC27	4WZ18	4WZ14	4WZ16	38D060	38D061	—	38D072
0 to 2 hr	3FXC2	—	3FXC3	—	—	—	—	4WZ13	—	38D062	—	38D068	—
0 to 4 hr	3FXC4	—	3FXC5	—	—	—	—	—	—	38D063	—	—	—
0 to 6 hr	4A218	—	—	—	—	—	—	—	—	38D064	38D065	—	38D073
0 to 12 hr	2E052	6X547	3FXC6	3FXC7	3FXC8	—	—	—	—	38D066	38D067	—	—

20XE85

45MW06

45KM66

45MW07

20XE87

45MW10

20XE90

Plug-In Timers

INTERMATIC TORK nsi

Features	Voltage	Amps	Watts	Min. Time Setting	Max. Time Setting	Max. On/Off Cycles	Receptacle Type	Color	Brand	Mfr. Model	Item No.
Indoor, Mechanical											
Manual Override	120V AC	20 A	2,500 W	30 min	30 min, 23 hr	2	5-20R	White	Intermatic	HB113	**20XE85**
Manual Override	120V AC	15 A	1,750 W	30 min	30 min, 23 hr	3	5-15R	White	Intermatic	TN311	**20XE87**
Manual Override	240V AC	15 A	3,600 W	30 min	30 min, 23 hr	2	6-15R	White	Intermatic	HB112	**20XE84**
Manual Override	240V AC	20 A	4,800 W	30 min	30 min, 23 hr	2	6-20R	White	Intermatic	HB114	**20XE86**
Indoor, Manual											
Manual On/Off Override Switch, Two Grounded Outlets, Two Sets of On/Off Trippers	120V AC	15 A	1,800 W	30 min	24 hr	—		White	Tork	RTN312	**783Y06**
Indoor, Digital											
Astronomic Setting, Auto Daylight Saving Time Adjustment, Random On/Off Setting	120V AC	15 A	1,000 W	1 min	59 min, 23 hr, 6 day	14	(2) 5-15R	White	Intermatic	DT620	**20XE89**
Automatically Turn On/Off Items In The Home, Control Lamps, Radios, Televisions and Appliances	120V AC	—	500 W	30 min	30 min, 23 hr	24	5-15R	White	Tork	402B	**45MW06**
7 Day Programming, Battery Backup, Manual Daylight Savings	120V AC	—	1,000 W	1 min	59 min, 23 hr	24	Polarized	White	Tork	460E	**45MW10**
7 Day Programming, Battery Backup, Manual Daylight Savings	125V AC	15 A	1,800 W	1 min	7 day	20	(2) 5-15R	White	Tork	455E	**45KM66**
Daily Changes ON Time to Match Sunset, Turn Off at Sunrise for All Night Lighting, Turn Off Lights in Evening with Random Mode for Lived in Look	125V AC	15 A	1,875 W	1 min	7 day	7	5-15R	White	Tork	458Z	**60NP78**
Indoor/Outdoor, Mechanical											
—	120V AC	—	500 W	30 min	30 min, 23 hr	24	5-15R	Black	Tork	602B	**45MW09**
Indoor/Outdoor, Digital											
Astronomic Setting, Auto Daylight Saving Time Adjustment, Battery Backup, Random On/Off Setting	120V AC	15 A	1,000 W	1 min	7 day	14	(2) 5-15R	Black	Intermatic	HB880R	**20XE90**
Automatically Turn On/Off Outdoor Lighting and Saves Energy By Switching Off Lights At Night.	120V AC	—	1,000 W	1 min	59 min, 23 hr	24	5-15R	Black	Tork	642E	**45MW07**
Outdoor, Mechanical											
Manual Override, Suitable for Outdoor Use In A 3R Enclosure	120V AC	9.5 A	1,185 W	30 min	30 min, 23 hr	2	1-15R	Black	Intermatic	TN111RM40	**20XE88**
Outdoor											
—	120V AC	15 A	1,000 W			—		Black	Intermatic	DT200LT	**710N36**
Built Into Outdoor Rated Enclosure with Clear or Black Flip Cover, Grounded Standard or Locking Type Style NEMA Plug, More On/Off Events with Addition of Extra Trippers, On/Off Settings Per Day with Removable Trippers, Plugs Directly Into Wall Outlet, Receptacle	120V AC	15 A	1,800 W	30 min	24 hr	2		Black	Intermatic	P1121	**710N37**
Built Into Outdoor Rated Enclosure with Clear or Black Flip Cover, Grounded Standard or Locking Type Style NEMA Plug, More On/Off Events with Addition of Extra Trippers, On/Off Settings Per Day with Removable Trippers, Plugs Directly Into Wall Outlet, Receptacle	120V AC	20 A	2,400 W	30 min	24 hr	2		Black	Intermatic	P1131	**710N38**
Light Activated	125V AC	15 A	1,000 W	60 min	9 hr	2	5-15R	Black	Tork	654E	**105H21**

14H252

14H248

32J136

14H247

OMRON® Autonics Sensors & Controllers

Electronic Timers

- Battery backup protects memory
- Adjustable cycle mode
- 120-240VAC
- 15A at 250VAC (except 32J135 is 10A)

Easy-to-use timers allow each circuit to be independently programmed. Manual override.

No. of Channels	Contact Form	Min. Time Setting	Max. Time Setting	Events Available	Pulse Duration	Operation Mode	Backup Time	Brand	Item No.
Flush Mount									
1	SPST-NO	1 min	7 day	24	1 sec to 60 min	7 Days	5 yr	Omron	**14H252**
2	(2) SPST-NO	1 min	7 day	40	1 sec to 60 min	7 Days	5 yr	Omron	**14H248**
2	(2) SPST-NO	1 min	365 day	48	1 sec to 60 min	365 Days	5 yr	Omron	**14H250**
Panel or Track Mount									
1	SPST-NO	1 min	365 day	48	1 sec to 60 min	365 Days	5 yr	Autonics	**32J136**
2	(2) SPST-NO	1 min	24 hr	24	—	7 Days	10 yr	Omron	**14H247**
2	(2) SPDT-NO	1 min	365 day	48	1 sec to 60 min	365 Days	5 yr	Autonics	**32J135**
Surface or Track Mount									
1	SPST-NO	1 min	7 day	24	1 sec to 60 min	7 Days	5 yr	Omron	**14H253**
2	(2) SPST-NO	1 min	7 day	40	1 sec to 60 min	7 Days	5 yr	Omron	**14H249**
2	(2) SPST-NO	1 min	365 day	48	1 sec to 60 min	365 Days	5 yr	Omron	**14H251**

Timer Modules

INTERMATIC®

- Min. time setting: 1 min.

Provide 24-hr. or 7-day scheduling on any electrical load with HVACR equipment. Also for use in lighting, security, circulating pump, and spa applications.

No. of Channels	Contact Form	Max. Time Setting	Events Available	Voltage	Amps	HP @ 120V	HP @ 240V	Backup Time	Item No.
Flush Mount									
1	SPDT-NO/NC	7 day	20	24V AC/DC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCA2**
Flush or DIN Rail, Surface Mount									
2	SPDT-NO/NC	7 day	50	120V AC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCD5**
2	SPDT-NO/NC	7 day	50	240V AC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCD7**
Panel Mount									
1	SPDT	24 hr	14	120 to 277V AC	15 A	½	1	2,500 hr	**20XE65**
Surface or DIN Rail Mount									
1	SPDT-NO/NC	7 day	20	24V AC/DC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCA3**
1	SPDT-NO/NC	7 day	20	120V AC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCA6**
1	SPDT-NO/NC	7 day	20	240V AC	16 A	NC: ½, NO: ⅜	NC: ¾, NO: 1	3 yr	**4CCA9**

4CCA3

20XE65

BORG GENERAL CONTROLS

24-Hr. and 7-Day Electromechanical Modules

Reliable modules for panel-mount installations. 24-hr. timers have up to 48 On/Off settings per day; 7-day timers have 42 On/Off settings per week, 6 settings per day. 2½"-dia. dial opening required to mount module through panel.

No. of Poles	Contact Form	Voltage	Amps	Contact HP @ 120V	Min. Time Setting	Max. Time Setting	H	W	D	Mfr. Model	Item No.
Synchronous Motors											
1	SPST-NO	120V AC	20 A	½ hp	15 min	23½ hr	2 ⅜ in	2 ⅜ in	1 ¼ in	TA-4150	**2A517**
1	SPST-NO	120V AC	20 A	½ hp	2 hr	6 days 20 hr	2 ⅜ in	2 ⅜ in	1 ¼ in	TA-4151	**2A518**
Quartz Motors with 150 Hr. NiCd Battery Backup											
1	SPST-NO	120V AC	20 A	½ hp	15 min	23½ hr	2 ⅜ in	2 ⅜ in	1 ¼ in	TA-4152	**2A519**
1	SPST	120V AC	20 A	½ hp	2 hr	6 days 20 hr	2 ⅜ in	2 ⅜ in	1 ¼ in	TA-4153	**2A520**

2A520

2A517

BORG GENERAL CONTROLS

Digital Interval Countdown Timer

- SPST contact configuration
- Input voltage: 120VAC
- Contact load rating: 15A at 120V

Dependable timer for use with medical equipment, commercial cooking appliances, pools and spas, and exercise equipment. Includes repeat memory, interlock connection, large easy-to-read display, and optional time-of-day display. Timing range: 0 to 99 hr., 59 min.; 1-sec. time intervals from 0 to 99 sec. and 0 to 99 min.; 1-min. intervals from 0 to 99 hr., 59 min. UL Listed, CSA and CE Certified.

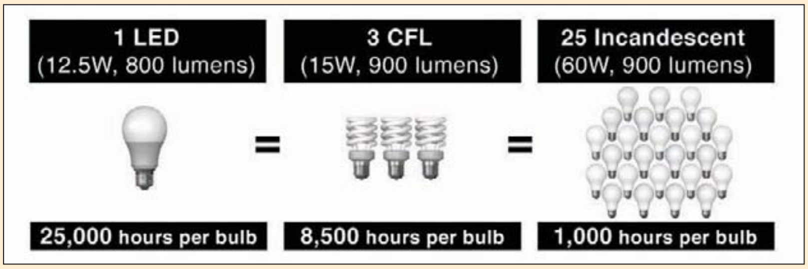
Item	Mfr. Model	Item No.
Cound Down Timer	TA4180A	**6PY50**
Face Plate	49150-00	**4WX97**

6PY50

4WX97

The Life of an LED Bulb

LED bulbs use significantly less energy and need to be replaced less often than other bulb types. Instead of burning out, LED bulbs typically undergo lumen reduction where their brightness fades over time as individual diodes in the bulbs begin to fail. An LED bulb is considered spent when its light output has decreased by 30%. Note: The life of an LED bulb (as measured in hours) and how that life compares to other bulb types is based on ideal conditions where the bulb is used in its intended application.



Understanding Color Temperature of a Light Bulb

Color temperature describes the hue and tone of white that a light bulb emits. It is measured numerically on the degrees Kelvin (K) scale. Light output at about 4000K is neutral white. Light output below 4000K gets warmer and yellower as the degrees Kelvin rating decreases. Light output above 4000K gets cooler and bluer as the degrees Kelvin rating increases.

Color Temperature	Warm/Medium	Neutral	Cool	Daylight
Kelvin Range	2700K - 3000K	3500K - 4100K	4100K - 5000K	6500K
Appearance	Orange/Yellow	White	Blue	Blue
Commercial and Industrial Spaces	Restaurants, Lobbies and Hotel Rooms, and Retail Stores	Offices, Classrooms, Supermarkets, Restrooms, and Breakrooms	Merchandisers Showrooms, Hospitals, and Parking Garages	Museums, Galleries, Task Lighting, Warehouses, and Manufacturing
Residential Environments	Living room, Dining room and Bedrooms	Kitchens, Bathrooms and Workspaces		Reading Areas and Outdoor lighting
Ambiance	Relaxing, Calming, and Friendly	Friendly, Inviting and Vibrant	Bright, Clean, and Invigorating	Energizing, Alert and Intense

Lumens and Watts

Lumens are a measure of how much light a bulb produces, its brightness. The higher the lumens, the brighter the light. Lumens, not watts, provide a basis for comparing the brightness of light bulbs. Watts is a measure of how much energy a light bulb uses. LED light bulbs are the most energy efficient light technology. They require the least energy to run compared to CFL, halogen, and incandescent bulbs of the same lumen output.

Lumens	LED	CFL	Halogen	Incandescent
450	6-8 Watts	9-13 Watts	25-29 Watts	40 Watts
800	9-12 Watts	14-16 Watts	40-43 Watts	60 Watts
1100	13-15 Watts	17-22 Watts	50-53 Watts	75 Watts
1600	16-20 Watts	23-30 Watts	70-72 Watts	100 Watts
2600	21-28 Watts	30-45 Watts	30-45 Watts	150 Watts

Color Rendering Index (CRI)

Color rendering describes how accurately a light source shows color as compared to a natural light source. It is measured on the Color Rendering Index (CRI), which is a scale from 0 to 100% with 100% representing the most crisp, vivid, and true-to-life color. Light sources with CRI ratings from 85 to 90 provide good color rendering. Light sources with CRI ratings of 90 or more provide excellent color rendering and are ideal for lighting photo studios and production floors where tasks require color differentiation.

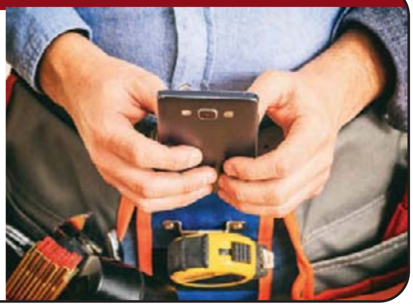
Lighting Certification

Lighting certification refers to product quality specifications and standards established by government agencies and nonprofit organizations.

DesignLights Consortium (DLC)
The DLC works with manufacturers, utility companies, and other partners to set product quality and energy efficiency standards.

DLC standards are numbered by version, with different numbers tied to specific sets of product requirements and higher numbers indicating newer versions.

Rebates for products meeting the standards may be available from regional energy providers.

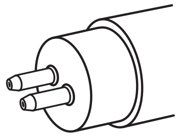


Plug & Play LED General Purpose Linear Light Bulbs (UL Type A)

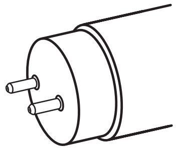
Install these bulbs in fluorescent lighting fixtures that are powered by ballasts. Avoid the expense of retrofitting lighting fixtures with LED drivers or wiring the bulbs into the building's power supply when switching lighting systems from fluorescent technology to LED technology. Users must verify that the light bulbs are compatible with the ballasts in the fixtures they will be installed in.

436L57

Wattage Equivalency	Watts	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base										
2 ft Nominal Length										
15 W LFL	7 W	Current	1000 lm	**55GU31**	1100 lm	**55GU32**	1150 lm	**55GU33**	1150 lm	**55GU34**
25 W LFL	11 W	Current	1500 lm	**55GU19**	1550 lm	**55GU20**	1600 lm	**55GU21**	1600 lm	**55GU22**
3 ft Nominal Length										
18 W LFL	10 W	Current	1500 lm	**55GU27**	1550 lm	**55GU28**	1600 lm	**55GU29**	1600 lm	**55GU30**
4 ft Nominal Length										
28 W LFL	13 W	Current	1900 lm	**55GU23**	1950 lm	**55GU24**	2000 lm	**55GU25**	2000 lm	**55GU26**
—	25 W	Shat-R-Shield	—	—	3300 lm	**55VR40**	3500 lm	**55VR42**	3500 lm	**55VR43**
54 W LFL	25 W	Current	3650 lm	**436L57**	3750 lm	**436L58**	3800 lm	**436L59**	3900 lm	**436L60**
T8 Lamps, Medium Bi-Pin (G13) Base										
2 ft Nominal Length										
15 W LFL	8.5 W	Current	1250 lm	**61KJ89**	1250 lm	**61KJ74**	1350 lm	**61KJ75**	1350 lm	**61KJ76**
3 ft Nominal Length										
18 W LFL	11 W	Current	1400 lm	**61KJ90**	1450 lm	**61KJ77**	1450 lm	**61KJ78**	1500 lm	**61KJ79**
4 ft Nominal Length										
25 W/28 W/32 W LFL	8.9 W	Philips	1500 lm	**61LA66**	1500 lm	**61LA67**	1600 lm	**61LA68**	1600 lm	**61LA69**
25 W LFL	10 W	Current	1500 lm	**61KJ91**	1550 lm	**61KJ80**	1550 lm	**61KJ81**	1600 lm	**61KJ82**
32 W LFL	10 W	Current	1550 lm	**467W24**	1600 lm	**467W25**	1600 lm	**467W26**	1650 lm	**467W27**
	10 W	Philips	—	—	1,500 lm	**55GY70**	1,600 lm	**55GY71**	1,600 lm	**55GY72**
25 W/28 W/32 W LFL	10.5 W	Philips	—	—	1550 lm	**793KF5**	1650 lm	**793KF6**	1650 lm	**793KF7**
32 W LFL	11 W	Current	2000 lm	**61KJ92**	—	—	—	—	—	—
25 W/28 W/32 W LFL	11.5 W	Current	1600 lm	**55GT86**	1600 lm	**55GT87**	1650 lm	**55GT88**	1700 lm	**55GT89**
—	12 W	Shat-R-Shield	—	—	1700 lm	**55VR60**	1800 lm	**55VR58**	—	—
32 W LFL	13 W	Maxlite	—	—	1800 lm	**56LG03**	1850 lm	**56LF73**	1900 lm	**56LG04**
25 W/28 W/32 W LFL	14 W	Current	1950 lm	**55GT90**	2000 lm	**55GT91**	2000 lm	**55GT92**	2050 lm	**55GT93**
	14 W	Philips	—	—	2100 lm	**793KF8**	2200 lm	**793KF9**	2200 lm	**793KG0**
32 W LFL	14 W	Current	1950 lm	**467W17**	2000 lm	**467W18**	2000 lm	**467W19**	2050 lm	**467W20**
—	15 W	Shat-R-Shield	—	—	2100 lm	**55VR61**	2200 lm	**55VR62**	2200 lm	**55VR63**
28 W/32 W LFL	15 W	Current	2100 lm	**48PX99**	2200 lm	**48PY01**	2200 lm	**48PY02**	2300 lm	**48PY03**
32 W LFL	15 W	Current	—	—	2100 lm	**61KJ83**	2100 lm	**61KJ84**	2150 lm	**61KJ85**
	16 W	Philips	—	—	—	—	1,800 lm	**55GY68**	1,800 lm	**55GY69**
	18 W	Current	2400 lm	**48PX94**	2500 lm	**48PX95**	2400 lm	**61KJ87**	2600 lm	**48PX97**
	18 W	Current	2300 lm	**61KJ93**	2400 lm	**61KJ86**	2500 lm	**48PX96**	2450 lm	**61KJ88**
T12 Lamps, Medium Bi-Pin (G13) Base										
4 ft Nominal Length										
35 W LFL	16 W	Philips	—	—	—	—	1,800 lm	**55GY76**	1800 lm	**55GY77**



Miniature Bi-Pin (G5) Base



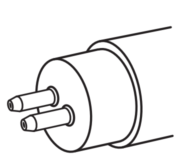
Medium Bi-Pin (G13) Base

Ballast-Bypass LED General Purpose Linear Light Bulbs (UL Type B)

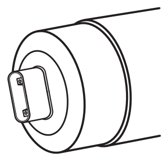
These bulbs do not require a ballast or driver to power the bulbs. They can be installed in compatible fluorescent lighting fixtures. They eliminate the risk of lighting outages due to faulty ballasts or drivers and avoid the expense of installing LED drivers when converting lighting systems. Ballast-bypass LED linear light bulbs require the fixtures to be wired into the building's power supply, so they are not suitable for facilities that have frequent power surges.

Wattage Equivalency	Watts	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base										
2 ft Nominal Length										
32 W LFL	12 W	Maxlite	—	—	1400 lm	**56LF93**	1500 lm	**787L93**	1600 lm	**785RR6**
3 ft Nominal Length										
39 W LFL	16 W	Maxlite	—	—	2000 lm	**787L95**	2000 lm	**787L94**	1900 lm	**56LF97**
4 ft Nominal Length										
24 W T5HO	13 W	Maxlite	—	—	—	—	1650 lm	**787L90**	—	—
—	25 W	Shat-R-Shield	—	—	3300 lm	**55VR38**	3500 lm	**55VR39**	3500 lm	**55VR41**
54 W LFL	25 W	Maxlite	—	—	3400 lm	**787L96**	3500 lm	**787L91**	3400 lm	**56LG02**
	25 W	Philips	—	—	3300 lm	**794F65**	3500 lm	**794F66**	3500 lm	**794F67**
T8 Lamps, Medium Bi-Pin (G13) Base										
2 ft Nominal Length										
18 W LFL	8.5 W	Philips	1,100 lm	**55GY73**	—	—	1,100 lm	**55GY74**	1,100 lm	**55GY75**
15 W LFL	9 W	Current	1100 lm	**55GT99**	1100 lm	**55GU01**	1150 lm	**55GU02**	1200 lm	**55GU03**
17 W LFL	9 W	Maxlite	—	—	—	—	1200 lm	**56LF91**	1250 lm	**56LF92**
3 ft Nominal Length										
25 W LFL	11.5 W	Philips	1300 lm	**494P23**	1300 lm	**494P24**	1400 lm	**494P25**	1400 lm	**494P26**
	12 W	Current	1450 lm	**55GT95**	1500 lm	**55GT96**	1550 lm	**55GT97**	1550 lm	**55GT98**
4 ft Nominal Length										
25 W/28 W/32 W LFL	9.9 W	Philips	—	—	1800 lm	**60WT59**	2000 lm	**60WT60**	2000 lm	**60WT61**
	10.5 W	Philips	—	—	1600 lm	**784N51**	1600 lm	**784N52**	1600 lm	**784N53**
	11 W	Philips	—	—	1650 lm	**60WT62**	1650 lm	**60WT63**	1650 lm	**60WT64**
	11 W	Current	1600 lm	**55XC95**	1650 lm	**55XC96**	1650 lm	**55XC97**	1700 lm	**55XC98**
—	12 W	Shat-R-Shield	—	—	1700 lm	**55VR46**	1800 lm	**55VR44**	1800 lm	**55VR45**
25 W/28 W/32 W LFL	12 W	Philips	1700 lm	**60WT51**	1700 lm	**60WT52**	1800 lm	**60WT53**	1800 lm	**60WT54**
32 W LFL	14 W	Current	1700 lm	**494G94**	1750 lm	**494G95**	1800 lm	**494G96**	1850 lm	**55GT94**
25 W/28 W/32 W LFL	14.5 W	Philips	2000 lm	**60WT55**	2000 lm	**60WT56**	2100 lm	**60WT57**	2100 lm	**60WT58**
	14.5 W	Philips	2100 lm	**784N54**	2100 lm	**784N55**	2100 lm	**784N56**	2100 lm	**784N57**
—	15 W	Shat-R-Shield	—	—	—	—	2200 lm	**55VR51**	2200 lm	**55VR49**
	15 W	Shat-R-Shield	—	—	—	—	1800 lm	**55VR52**	1800 lm	**55VR50**
32 W LFL	15 W	Maxlite	—	—	—	—	2200 lm	**787L97**	2200 lm	**787L92**
25 W/28 W/32 W LFL	15.5 W	Philips	—	—	2100 lm	**60WT65**	2200 lm	**60WT66**	2200 lm	**60WT67**
	16.9 W	Philips	—	—	2500 lm	**784N59**	—	—	2500 lm	**784N60**
32 W/28 W/32 W LFL	16.9 W	Philips	—	—	—	—	2500 lm	**784N58**	—	—
—	17 W	Shat-R-Shield	—	—	—	—	2200 lm	**55VR53**	2200 lm	**55VR54**
32 W LFL	17 W	Maxlite	—	—	2050 lm	**56LG06**	—	—	—	—
T8 Lamps, Recessed Double Contact (R17d) Base										
8 ft Nominal Length										
75 W LFL	42 W	Philips	—	—	—	—	5400 lm	**784N61**	5400 lm	**784N62**
86 W LFL	42 W	Maxlite	—	—	—	—	5400 lm	**56LF83**	5500 lm	**56LF84**
—	43 W	Shat-R-Shield	—	—	—	—	—	—	5500 lm	**55VR57**
T8 Lamps, Single Pin (Fa8) Base										
8 ft Nominal Length										
60 W LFL	33 W	Philips	—	—	—	—	4200 lm	**784N63**	4200 lm	**784N64**
59 W LF	42 W	Maxlite	—	—	—	—	5400 lm	**56LF81**	5500 lm	**56LF82**
75 W LFL	42 W	Philips	—	—	—	—	5400 lm	**784NA9**	5400 lm	**784NC0**
—	43 W	Shat-R-Shield	—	—	—	—	—	—	5500 lm	**55VR55**

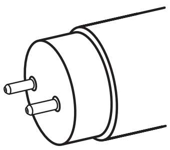
55GT99



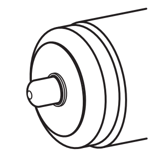
Miniature Bi-Pin (G5) Base



Recessed Double Contact (R17d) Base

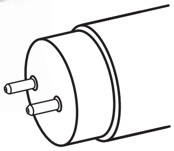


Medium Bi-Pin (G13) Base



Single Pin (Fa8) Base

55GU47



Medium Bi-Pin (G13) Base

Separate-Driver LED General Purpose Linear Light Bulbs (UL Type C)

Current

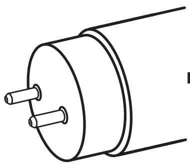
The bulb and driver are designed to work together, which helps these bulbs perform more reliably than other types of LED linear light bulbs. The driver also protects the bulb from power quality issues, making the bulbs suitable for warehouses and industrial sites that experience power issues but still wish to convert their lighting system. They install in fluorescent lighting fixtures that have been retrofitted with a compatible LED driver to power the bulbs.

Wattage Equivalency	Watts	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base									
2 ft Nominal Length									
17 W LFL	12 W	1100/1450 lm	**55GU47**	1200/1550 lm	**55GU48**	1200/1550 lm	**55GU49**	1200/1550 lm	**55GU50**
3 ft Nominal Length									
25 W LFL	18 W	1550/1900/2250 lm	**55GU43**	1600/1950/2300 lm	**55GU44**	1600/1950/2300 lm	**55GU45**	1600/1950/2300 lm	**55GU46**
4 ft Nominal Length									
25 W/28 W/32 W LFL	21 W	1550/1900/2250/2650 lm	**55GU35**	1600/1950/2300/2700 lm	**55GU36**	1600/1950/2300/2700 lm	**55GU37**	1600/1950/2300/2700 lm	**55GU38**

MaxLite® shat-r-shield INC. The Protective Lighting Company PHILIPS

Hybrid LED General Purpose Linear Light Bulbs (UL Type A/B)

55VR64

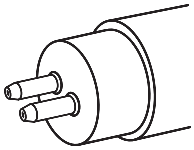


Medium Bi-Pin (G13) Base

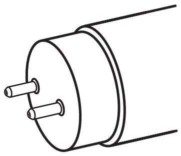
These bulbs can be installed in a fluorescent lighting fixture that is powered by a ballast. If the fixture's ballast fails, the fixture can be wired directly into the building's power supply to power the bulb. Avoid the expense or replacing failed ballasts when switching lighting systems. Because users will need access to the lighting fixture to rewire it if the ballast fails, these bulbs are typically used in offices and other spaces where ceilings are 10 ft. high or less.

Wattage Equivalency	Watts	Brand	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base								
2 ft Nominal Length								
17 W LFL	10 W	Maxlite	1350 lm	**56LF72**	1380 lm	**56LF71**	1420 lm	**56LF74**
3 ft Nominal Length								
25 W LFL	25 W	Maxlite	1600 lm	**56LF86**	1625 lm	**56LF85**	1650 lm	**56LF87**
4 ft Nominal Length								
—	12 W	Shat-R-Shield	—	—	1900 lm	**55VR64**	1900 lm	**55VR65**
32 W LFL	12 W	Maxlite	1800 lm	**56LF89**	—	—	1900 lm	**56LF90**
32W LFL	12.5W	Philips	1800 lm	**60EE66**	1800 lm	**60EE67**	1800 lm	**60EE68**

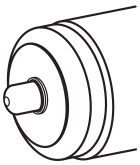
53UG87



Miniature Bi-Pin (G5) Base



Medium Bi-Pin (G13) Base



Single Pin (Fa8) Base

Hybrid LED General Purpose Linear Light Bulbs (UL Type A/C)

PHILIPS

Install in a fluorescent lighting fixture that is powered by a ballast. If the fixture's ballast fails, the fixture can be retrofitted with a compatible LED driver that provides power to the bulb. This spreads out the cost of converting lighting systems from fluorescent technology to LED technology. Users must verify that the light bulbs are compatible with the ballast in the fixture they will be installed in.

Wattage Equivalency	Watts	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T5 Lamps, Miniature Bi-Pin (G5) Base									
2 ft Nominal Length									
15 W LFL	8 W	1000 lm	**449U86**	1000 lm	**449U87**	1050 lm	**449U88**	1050 lm	**449U89**
3 ft Nominal Length									
25 W LFL	11 W	1400 lm	**449U90**	1400 lm	**449U91**	1500 lm	**449U92**	1500 lm	**449U93**
4 ft Nominal Length									
28 W LFL	14 W	2000 lm	**449U94**	2000 lm	**449U95**	2100 lm	**449U96**	2100 lm	**449U97**
54 W LFL	24 W	3500 lm	**53UG87**	3300 lm	**53UG88**	3500 lm	**53UG89**	3500 lm	**53UG90**
T8 Lamps, Medium Bi-Pin (G13) Base									
2 ft Nominal Length									
18 W LFL	7 W	1100 lm	**52ZX59**	1100 lm	**52ZX60**	1150 lm	**52ZX61**	1150 lm	**52ZX62**
3 ft Nominal Length									
25 W LFL	8.5 W	1300 lm	**32MX91**	1300 lm	**32MX92**	1400 lm	**32MX93**	1400 lm	**32MX94**
4 ft Nominal Length									
	13 W	2000 lm	**406T74**	2000 lm	**406T75**	2100 lm	**406T76**	2100 lm	**406T77**
32 W LFL	14 W	2000 lm	**406T66**	2000 lm	**406T67**	2100 lm	**406T68**	2100 lm	**406T69**
	15.5 W	—	—	2400 lm	**54XY54**	2500 lm	**54XY55**	2500 lm	**54XY56**
T8 Lamps, Single Pin (Fa8) Base									
8 ft Nominal Length									
64 W LFL	30 W	—	—	—	—	4200 lm	**494F13**	4200 lm	**494F14**
86 W LFL	35 W	—	—	—	—	4200 lm	**53UG85**	—	—

3V319

Safety Sleeves & Tube Holders

LumaPro®

Safety sleeves and tube holders keep glass shards and phosphors contained when linear light bulbs break, which eases cleanup and helps prevent injuries. They slip over LED or fluorescent linear bulbs to provide a shatterproof barrier that protects the bulb from impact, damage, dust, and moisture. Colored sleeves tint the light that's emitted from the bulb and can be used in ambient-lighting or accent-lighting applications as well as for marking safety areas, exits, or equipment.

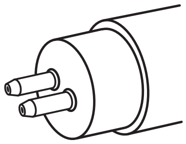
L	CLEAR Item No.	RED Item No.	YELLOW Item No.
T5 Lamps, Universal Pin, Outside fit			
20 5⁄16 in	**4DZN4**	—	—
45 3⁄16 in	**4DZN7**	**4DZN8**	**4DZN9**
T8 Lamps, Universal Pin, Inside fit			
48 in	**1E522**	**1E518**	**1E520**
96 in	**1E516**	**1E512**	—
T12 Lamps, RDC			
96 in	**3VH26**	—	—
T12 Lamps, Universal Pin, Inside fit			
48 in	**3V319**	**4VC49**	**4VC50**
96 in	**3V320**	**4VC51**	**4VC52**

PHILIPS Current SYLVANIA shat-r-shield INC. The Protective Lighting Company

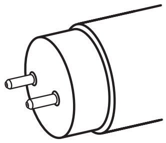
Fluorescent General Purpose Linear Light Bulbs (No UL Type)

An economical choice for lighting large spaces. They have pin-type connectors and can be installed in compatible lighting fixtures that are powered by ballasts.

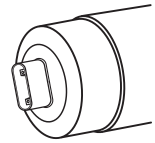
4PL16



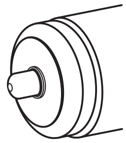
Miniature Bi-Pin (G5) Base



Medium Bi-Pin (G13) Base



Recessed Double Contact (R17d) Base



Single Pin (Fa8) Base

Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.	Case Qty.
T5 Bulb Shape, Miniature Bi-Pin (G5) Base						
1 ft Nominal Length						
7.1 W	4100K	410 lm	F8T5/CW	Philips	**492Y01**	25
8 W	4100K	400 lm	F8T5/CW	Current	**2V235**	24
8 W	4200K	385 lm	F8T5CW	Sylvania	**60UA59**	25
2 ft Nominal Length						
13 W	3000K	880 lm	F13T5/WW 25/CS	Sylvania	**60UA69**	25
13 W	4000K	830 lm	—	Sylvania	**56GK37**	25
13 W	4100K	850 lm	F13T5/CW/HO	Current	**2V806**	24
13 W	4100K	930 lm	F13T5/CW	Philips	**492X99**	25
14 W	3000K	1,240 lm	F14W/T5/830/ECO	Current	**5AE12**	40
14 W	3500K	1,200 lm	—	Sylvania	**56GK50**	40
14 W	3500K	1,240 lm	F14W/T5/835/ECO	Current	**5AE13**	40
14 W	3500K	1,350 lm	F14T5/835/ALTO	Philips	**492X98**	40
14 W	4100K	1,200 lm	—	Sylvania	**56GK54**	40
14 W	4100K	1,240 lm	F14W/T5/841/ECO	Current	**5AE14**	40
14 W	4100K	1,350 lm	F14T5/841/ALTO	Philips	**492X97**	40
22.5 W	3500K	1,950 lm	F24T5/835/HO/ALTO	Philips	**492X94**	40
22.5 W	4100K	1,950 lm	F24T5/841/HO/ALTO	Philips	**492X95**	40
24 W	3000K	1,760 lm	FP24830HOECO	Sylvania	**60UA35**	40
24 W	3000K	2,000 lm	F24T5/830/ECO/HO	Current	**5AE24**	40
24 W	3500K	1,760 lm	—	Sylvania	**56GK53**	40
24 W	3500K	2,000 lm	F24T5/835/ECO/HO	Current	**5AE25**	40
24 W	4100K	1,760 lm	—	Sylvania	**56GK35**	40
24 W	4100K	2,000 lm	F24T5/841/ECO/HO	Current	**5AE26**	40
3 ft Nominal Length						
20.6 W	4100K	2,100 lm	F21T5/841/ALTO	Philips	**492X96**	40
21 W	3000K	1,930 lm	F21T5/830/ECO	Current	**5AE15**	40
21 W	3500K	1,930 lm	F21T5/835/ECO	Current	**5AE16**	40
21 W	3500K	2,100 lm	F21T5/835/ALTO	Philips	**492Y22**	40
21 W	4100K	1,900 lm	—	Sylvania	**56GK13**	40
21 W	4100K	1,930 lm	F21T5/841/ECO	Current	**5AE17**	40
38 W	3000K	3,500 lm	F39T5/830/HO/ALTO	Philips	**492X91**	40
39 W	3000K	3,100 lm	—	Sylvania	**56GK33**	40
39 W	3000K	3,500 lm	F39T5/830/ECO/HO	Current	**5AE27**	40
39 W	3500K	3,500 lm	F39T5/835/ECO/HO	Current	**5AE28**	40
39 W	4100K	3,255 lm	FP39841HOECO	Sylvania	**60UA56**	40
4 ft Nominal Length						
26 W	3500K	2,900 lm	F28WT5/835/WM/ECO	Current	**2EAH4**	40
27.9 W	3500K	2,900 lm	F28T5/835/ALTO	Philips	**492X92**	40
27.9 W	4100K	2,900 lm	F28T5/841/ALTO	Philips	**492X93**	40
28 W	3000K	2,660 lm	F28W/T5/830/ECO	Current	**5AE18**	40
28 W	3500K	2,600 lm	—	Sylvania	**56GK80**	40
28 W	3500K	2,660 lm	F28W/T5/835/ECO	Current	**5AE19**	40
28 W	4100K	2,600 lm	—	Sylvania	**56GK75**	40
28 W	4100K	2,660 lm	F28W/T5/841/ECO	Current	**5AE20**	40
28 W	5000K	2,530 lm	F28T5/850/ECO/HO	Current	**2EAE5**	40
51 W	5000K	4,790 lm	—	Current	**2EAF9**	40
54 W	3000K	5,000 lm	F54T5/830/ECO/HO	Current	**5AE33**	40
54 W	3000K	5,000 lm	FP54830HOECO	Sylvania	**60UA19**	40
54 W	3500K	4,480 lm	—	Sylvania	**56GK55**	40
54 W	3500K	5,000 lm	F54T5/835/ECO/HO	Current	**5AE34**	40
54 W	4100K	3,975 lm	—	Sylvania	**56GK32**	40
54 W	4100K	4,480 lm	—	Sylvania	**56GK91**	40
54 W	4100K	5,000 lm	F54T5/841/HO/ALTO TG	Philips	**492X89**	40
54 W	4100K	5,000 lm	F54T5W/841/ECO/HO	Current	**5AE35**	40
54 W	5000K	4,300 lm	—	Sylvania	**56GK65**	40
54 W	5000K	4,800 lm	F54W/T5/850/ECO/HO	Current	**5AE36**	40
54 W	6500K	4,750 lm	F54T5/865/ECO/HO	Current	**5AE37**	40
54.1 W	3500K	5,000 lm	F54T5/835/HO/ALTO	Philips	**492X88**	40
54.1 W	4100K	5,000 lm	F54T5/841/HO/ALTO	Philips	**492X86**	40
54.1 W	5000K	4,800 lm	F54T5/850/HO/ALTO	Philips	**492X87**	40
54.1 W	5000K	4,800 lm	F54T5/850/HO/ALTO TG	Philips	**492X90**	40
5 ft Nominal Length						
35.5 W	3000K	3,650 lm	F35T5/830	Philips	**788VR9**	40
35.5 W	4100K	3,650 lm	FDH-35/40/1B-L/P-G5-16/1450	Philips	**788VT0**	40
80 W	3000K	6,510 lm	FP80830HOECO	Sylvania	**60UA15**	40
12" Nominal Length						
8 W	4000K	385 lm	—	Sylvania	**56GK25**	25
T8 Bulb Shape, Medium Bi-Pin (G13) Base						
18" Nominal Length						
15 W	4200K	825 lm	—	Sylvania	**56GJ81**	24
1½ ft Nominal Length						
15 W	6500K	700 lm	—	Sylvania	**56GK04**	24
15.5 W	4100K	830 lm	F15T8/CW	Philips	**492X80**	25
15.5 W	6200K	725 lm	F15T8/D	Philips	**492X79**	25
2 ft Nominal Length						
17 W	3000K	1,260 lm	F17T8/SP30/ECO	Current	**6XT95**	24
17 W	3500K	1,260 lm	F17T8/SP35/ECO	Current	**6XT97**	24
17 W	3500K	1,350 lm	—	Sylvania	**56GK26**	30
17 W	3500K	1,375 lm	F17T8/TL835/ALTO	Philips	**492X77**	30
17 W	3500K	1,375 lm	F17T8/TL835/PLUS/ALTO	Philips	**492Y09**	30
17 W	4100K	1,260 lm	F17T8/SP41/ECO	Current	**6XT99**	24
17 W	4100K	1,350 lm	—	Sylvania	**56GK40**	30
17 W	4100K	1,375 lm	F17T8/TL841/ALTO	Philips	**492X76**	30
17 W	4100K	1,375 lm	F17T8/TL841/PLUS/ALTO	Philips	**492Y10**	30
17 W	5000K	1,300 lm	F17T8/TL850/PLUS/ALTO	Philips	**492Y11**	30
17 W	6500K	1,300 lm	F17T8/TL865 PLUS/ALTO	Philips	**492X78**	30
2½ ft Nominal Length						
19 W	4100K	1,350 lm	F28T8/CW/4	Current	**1F338**	24
19 W	4100K	1,375 lm	F30T8/CW/4	Current	**5V495**	24
3 ft Nominal Length						
25 W	3000K	2,045 lm	F25T8/TL830/PLUS/ALTO	Philips	**492Y12**	30
25 W	3000K	2,150 lm	FO25830ECO	Sylvania	**60UA43**	30
25 W	3500K	1,970 lm	F25T8/SP35/ECO	Current	**6XV04**	24
25 W	3500K	2,045 lm	F25T8/TL835/PLUS/ALTO	Philips	**492Y13**	30
25 W	3500K	2,045 lm	F25T8/TL835/ALTO	Philips	**492Y15**	30
25 W	3500K	2,150 lm	FO25835ECO	Sylvania	**60UA66**	30
25 W	4100K	1,970 lm	F25T8/SP41/ECO	Current	**6XV06**	24
25 W	4100K	2,045 lm	F25T8/TL841/ALTO	Philips	**492X74**	30
25 W	4100K	2,045 lm	F25T8/TL841/PLUS/ALTO	Philips	**492Y14**	30
25 W	4100K	2,150 lm	FO25/841/ECO	Sylvania	**61DF43**	30
25 W	5000K	1,995 lm	F25T8/TL850/ALTO	Philips	**492Y17**	30
25 W	Not Rated	2,150 lm	—	Shat-R-Shield	**55VR70**	30
30 W	4100K	2,200 lm	F30T8/CW ALTO	Philips	**492X75**	30
30 W	4200K	2,180 lm	—	Sylvania	**56GJ99**	24
30 W	4200K	2,180 lm	—	Sylvania	**56GK01**	24
4 ft Nominal Length						
25 W	3500K	2,350 lm	F32T8/25W/SPX35/ECO	Current	**2ETR7**	36
25 W	3500K	2,400 lm	F32T8/ADV835/XLL ALTO 25W	Philips	**492X72**	30
25 W	3500K	2,425 lm	F32T8/ADV835/XEW/ALTO 25 Watt	Philips	**492Y18**	30
25 W	3500K	2,500 lm	—	Sylvania	**56GK08**	30
25 W	4100K	2,300 lm	F32T8/VEA841/XEW ALTO 25W	Philips	**492X73**	30
25 W	4100K	2,350 lm	F32T8/25W/SPX41/ECO	Current	**2ETR8**	36
25 W	4100K	2,400 lm	F32T8/ADV841/X LL ALTO 25W	Philips	**492X70**	30
25 W	4100K	2,425 lm	F32T8/ADV841/XEW/ALTO 25 Watt	Philips	**492Y19**	30
25 W	4100K	2500 lm	—	Sylvania	**56GK76**	30
25 W	4100K	2500 lm	—	Sylvania	**56GK77**	30
25 W	5000K	2,350 lm	F32T8/25W/SPX50/ECO	Current	**2ETR9**	36
25 W	5000K	2,350 lm	F32T8/ADV850/X LL ALTO 25W	Philips	**492X71**	30
25 W	5000K	2,400 lm	F32T8/ADV850/XEW/ALTO 25 Watt	Philips	**492Y20**	30
25 W	5000K	2,500 lm	—	Sylvania	**56GK27**	30
28 W	3000K	2,725 lm	—	Sylvania	**56GK36**	30
28 W	3500K	2,515 lm	F28T8/XL/SPX35/ECO	Current	**2ETU2**	36
28 W	3500K	2,600 lm	F28T8/SXL/SPX35/ECO	Current	**29UY21**	36
28 W	3500K	2,725 lm	F32T8/ADV835/EW/ALTO 28W	Philips	**492X64**	30
28 W	3500K	2,725 lm	—	Sylvania	**56GK81**	30
28 W	4100K	2,515 lm	F28T8/XL/SPX41/ECO	Current	**2ETU3**	36
28 W	4100K	2,600 lm	F32T8/VEA841/EW/ALTO 28W	Philips	**492X68**	30
28 W	4100K	2,600 lm	—	Sylvania	**56GK38**	30
28 W	4100K	2,645 lm	F32T8/ADV841/EW/ALTO 28W	Philips	**492X65**	30
28 W	4100K	2,650 lm	F32T8/ADV841/2XL/ALTO II 28W	Philips	**492X69**	30
28 W	4100K	2,725 lm	—	Sylvania	**56GK93**	30
28 W	5000K	2,515 lm	F28T8/XL/SPX50/ECO	Current	**2ETU4**	36
28 W	5000K	2,595 lm	F32T8/ADV850/EW/ALTO 28W	Philips	**492X66**	30
28 W	5000K	2,600 lm	F32T8/ADV850/2XL/ALTO II 28W	Philips	**492X67**	30
28 W	5000K	2,600 lm	—	Sylvania	**56GK30**	30
28 W	5000K	2,725 lm	—	Sylvania	**56GK48**	30
32 W	3000K	2,775 lm	F32T8/TL930/ALTO	Philips	**492X53**	30
32 W	3000K	2,800 lm	FO32830ECO	Sylvania	**60UA13**	30
32 W	3000K	2,950 lm	F32T8/SPX30/ECO2	Current	**4PL14**	36
32 W	3000K	3,000 lm	FO32830XPECO3	Sylvania	**60UA41**	30
32 W	3500K	2,450 lm	FO32V35ECO	Sylvania	**60UA22**	30
32 W	3500K	2,625 lm	F32T8/TL935/ALTO	Philips	**492X55**	30
32 W	3500K	2,625 lm	F32T8/TL935/ALTO TG	Philips	**492X84**	30
32 W	3500K	2,625 lm	—	Shat-R-Shield	**55VR66**	30
32 W	3500K	2,850 lm	—	Sylvania	**56GK03**	30
32 W	3500K	2,915 lm	F32T8/XL/SPX35/HL/ECO	Current	**3CA62**	36
32 W	3500K	2,950 lm	F32T8/TL835 PLUS ALTO	Philips	**492X59**	30
32 W	3500K	2,950 lm	F32T8/SPP35/ECO	Current	**4PL15**	36
32 W	3500K	2,950 lm	FO32835ECO	Sylvania	**60UA16**	30
32 W	3500K	2,975 lm	—	Sylvania	**56GK94**	30
32 W	3500K	3,000 lm	F32T8/ADV835 ALTO	Philips	**492X63**	30
32 W	3500K	3,100 lm	—	Sylvania	**56GK14**	30
32 W	4100K	2,450 lm	FO32V41ECO	Sylvania	**60UA36**	30
32 W	4100K	2,600 lm	F32T8/TL941/ALTO	Philips	**492X54**	30
32 W	4100K	2,600 lm	F32T8/TL941/ALTO TG	Philips	**492X83**	30

CONTINUED

PHILIPS Current SYLVANIA shat-r-shield

Fluorescent General Purpose Linear Light Bulbs (No UL Type)

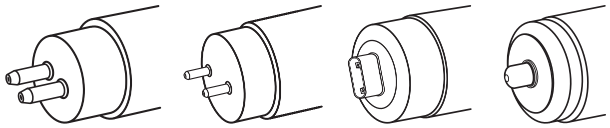
Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.	Case Qty.
32 W	4100K	2,915 lm	F32T8/XL/SPX41/HL/ECO	Current	**3CA64**	36
32 W	4100K	2,940 lm	—	Sylvania	**56GK44**	30
32 W	4100K	2,950 lm	F32T8/TL841 PLUS ALTO	Philips	**492X58**	30
32 W	4100K	2,950 lm	—	Shat-R-Shield	**55VR67**	30
32 W	4100K	2,950 lm	—	Sylvania	**56GK06**	30
32 W	4100K	2,950 lm	—	Sylvania	**56GK74**	30
32 W	4100K	2,975 lm	—	Sylvania	**56GK95**	30
32 W	4100K	3,000 lm	F32T8/ADV841 ALTO	Philips	**492X61**	30
32 W	4100K	3,000 lm	F32T8/SPP41/ECO	Current	**4PL16**	36
32 W	4100K	3,100 lm	—	Sylvania	**56GK70**	30
32 W	5000K	2,600 lm	F32T8/TL950/ALTO	Philips	**492X56**	30
32 W	5000K	2,600 lm	F32T8/TL950/ALTO TG	Philips	**492X82**	30
32 W	5000K	2,790 lm	—	Sylvania	**56GK63**	30
32 W	5000K	2,820 lm	F32T8/XL/SPX50/HL/ECO	Current	**4ZY40**	36
32 W	5000K	2,850 lm	F32T8/TL850 PLUS ALTO	Philips	**492X60**	30
32 W	5000K	2,900 lm	—	Sylvania	**56GK84**	30
32 W	5000K	2,925 lm	—	Sylvania	**56GK45**	30
32 W	5000K	2,935 lm	F32T8/ADV850 ALTO	Philips	**492X62**	30
32 W	5000K	2,950 lm	F32T8/SPP50/ECO	Current	**3VK11**	36
32 W	5000K	2,950 lm	—	Sylvania	**56GK19**	30
32 W	5000K	3,000 lm	—	Sylvania	**56GK47**	30
32 W	6500K	2,600 lm	F32T8/TL965/ALTO	Philips	**492X57**	30
32 W	6500K	2,600 lm	F32T8/TL965/ALTO TG	Philips	**492X85**	30
32 W	6500K	2,725 lm	F32T8/SPX65/ECO	Current	**3JJ79**	36
32 W	6500K	2,925 lm	—	Sylvania	**56GK79**	30
32 W	7500K	1,600 lm	F32T8/C75/ECO	Current	**46T406**	36
T8 Bulb Shape, Recessed Double Contact (R17d) Base						
44 W	4100K	4,000 lm	F48T8/TL841/HO ALTO	Philips	**55DY77**	25
8 ft Nominal Length						
86 W	3500K	8,200 lm	F96T8/SPX35/HO	Current	**2F954**	24
86 W	4100K	8,200 lm	F96T8/SPX41/HO	Current	**2F956**	24
86 W	4100K	8,200 lm	F96T8/TL841/HO/PLUS ALTO	Philips	**492X81**	25
86 W	5000K	8,200 lm	F96T8/SPX50/HO	Current	**2F958**	24
T8 Bulb Shape, Single Pin (FA8) Base						
8 ft. Nominal Length						
59 W	3500K	5,900 lm	F96T8/XL/SPX35/2	Current	**36H783**	24
59 W	3500K	5,900 lm	F968/TL835 PLUS ALTO	Philips	**55DY78**	25
59 W	3500K	5,900 lm	—	Shat-R-Shield	**55VR68**	25
59 W	3500K	5,950 lm	F96T8/XLSPX35WMP	Current	**429U42**	24
59 W	4100K	5,900 lm	F96T8/XL/SPX41/2	Current	**36H784**	24
59 W	4100K	5,900 lm	F96T8/TL841 PLUS ALTO	Philips	**55DY79**	25
59 W	5000K	5,900 lm	F96T8/XL/SPX50/2	Current	**36H785**	24
T12 Bulb Shape, Medium Bi-Pin (G13) Base						
2 ft Nominal Length						
20 W	4100K	1,150 lm	F20T12/CW/ECO	Current	**6NB14**	24
20 W	6500K	945 lm	F20T12/D/ECO	Current	**6NB15**	24
4 ft Nominal Length						
34 W	4100K	2,200 lm	F34/CX41/WM/ECO	Current	**24W596**	30
40 W	4100K	2,500 lm	—	Sylvania	**56GK41**	30
40 W	4100K	2,600 lm	F40T12/CW/ALTO	Philips	**492Y04**	30
40 W	4100K	2,600 lm	F40T12/CW/ALTO	Philips	**492Y07**	30
40 W	5000K	1,870 lm	F40T12/C50/ECO	Current	**6NB36**	30
40 W	5000K	2,400 lm	—	Sylvania	**56GJ95**	30
40 W	5000K	2,545 lm	F40T12/C50/ALTO	Philips	**492Y08**	30
40 W	6500K	1,740 lm	F40T12/DX/ECO	Current	**6NB37**	30
40 W	6500K	2,325 lm	F40DX ALTO	Philips	**492Y05**	30
40 W	6500K	2,400 lm	—	Sylvania	**56GK39**	30
T12 Bulb Shape, Recessed Double Contact (R17d) Base						
60 W	4100K	4,050 lm	F48T12/CW/HO	Current	**3V443**	24
60 W	4100K	4,050 lm	F48T12/CW/HO ALTO	Philips	**492Y06**	15
60 W	4200K	4,050 lm	—	Sylvania	**56GK31**	30
60 W	6500K	3,400 lm	F48T12/D/HO	Current	**4V924**	24
4¾ ft Nominal Length						
75 W	6500K	3,830 lm	F60T12/D/HO	Current	**4V931**	15
5 ft Nominal Length						
75 W	4100K	4,480 lm	F60T12/CW/HO	Current	**4V476**	15
6 ft Nominal Length						
85 W	4100K	6,350 lm	F72T12/CW/HO	Current	**3V438**	15
85 W	6500K	5,350 lm	F72T12/D/HO	Current	**4V444**	15
7 ft Nominal Length						
100 W	4100K	7,460 lm	F84T12/CW/HO	Current	**4V445**	15
100 W	6500K	6,500 lm	F84T12/D/HO	Current	**4V446**	15
8 ft Nominal Length						
110 W	4100K	8,800 lm	F96T12/CW/HO-O ALTO	Philips	**492Y03**	15
T12 Bulb Shape, Single Pin (FA8) Base						
5 ft Nominal Length						
50 W	4100K	3,600 lm	F60T12/CW	Current	**4V954**	15
8 ft Nominal Length						
75 W	4100K	5,000 lm	F96T12/CW/ALTO	Philips	**492Y02**	15
75 W	6500K	4,500 lm	F96T12/DX/ALTO	Philips	**492Y21**	15

Shatter-Resistant Linear Light Bulbs

Current shat-r-shield

A surface coating keeps broken glass, mercury, and phosphors contained if the bulbs burst or break. This prevents safety hazards by keeping the contaminants from spreading into the surrounding area. They are also used in areas where the light bulbs may be exposed to shaking or impacts, such as railway systems and freight elevators.

21GP84



Miniature Bi-Pin (G5) Base | Medium Bi-Pin (G13) Base | Recessed Double Contact (R17d) Base | Single Pin (Fa8) Base

Light Technology	Watts	Color Temp.	Lumens	Bulb Designation	Brand	Item No.
T5 Bulb Shape, Miniature Bi-Pin (G5) Base						
4 ft Nominal Length						
Fluorescent	28 W	3500K	2,813 lm	F28T5/835/ECO/CVG	Current	**1PDD7**
Fluorescent	28 W	4100K	2,813 lm	F28T5/841/ECO/HO/CVG	Current	**1PDD8**
Fluorescent	49 W	4100K	4,450 lm	—	Shat-R-Shield	**21GP81**
Fluorescent	49 W	5000K	4,800 lm	—	Shat-R-Shield	**21GP82**
Fluorescent	51 W	4100K	4,850 lm	F54T5/841/WM/ECO/CVG	Current	**4CEX3**
Fluorescent	54 W	3500K	4,850 lm	F54T5/835/HO/ECO/CVG/HO	Current	**5TB63**
Fluorescent	54 W	4100K	4,850 lm	F54T5/841/HO/ECO/CVG/HO	Current	**5TB64**
Fluorescent	54 W	4100K	5,000 lm	F54T5/841/HO	Shat-R-Shield	**54YG46**
Fluorescent	54 W	5000K	4,650 lm	F54T5/850/HO/ECO/CVG	Current	**1TGY9**
Fluorescent	54 W	5000K	5,000 lm	F54T5/850/HO	Shat-R-Shield	**54YG47**
T8 Bulb Shape, Medium Bi-Pin (G13) Base						
2 ft Nominal Length						
LED	8.5 W	3000K	1250 lm	LED8ET8/G/2/830	Current	**61KJ89**
LED	8.5 W	3500K	1250 lm	LED8ET8/G/2/835	Current	**61KJ74**
LED	8.5 W	4000K	1350 lm	LED8ET8/G/2/840	Current	**61KJ75**
LED	8.5 W	5000K	1350 lm	LED8ET8/G/2/850	Current	**61KJ76**
Fluorescent	17 W	3500K	1,220 lm	F17T8/SP35/ECO/CVG	Current	**4WW97**
Fluorescent	17 W	4100K	1,220 lm	F17T8/SP41/ECO/CVG	Current	**4WW98**
3 ft Nominal Length						
LED	11 W	3000K	1400 lm	LED11ET8/G/3/830	Current	**61KJ90**
LED	11 W	3500K	1450 lm	LED11ET8/G/3/835	Current	**61KJ77**
LED	11 W	4000K	1450 lm	LED11ET8/G/3/840	Current	**61KJ78**
LED	11 W	5000K	1500 lm	LED11ET8/G/3/850	Current	**61KJ79**
Fluorescent	25 W	3500K	1,920 lm	F25T8/SP35/WM/ECO/CVG	Current	**4WW64**
Fluorescent	25 W	4100K	1,920 lm	F25T8/SP41/WM/ECO/CVG	Current	**4WW65**
4 ft Nominal Length						
LED	10 W	3000K	1500 lm	LED10ET8/G/4/830	Current	**61KJ91**
LED	10 W	3500K	1550 lm	LED10ET8/G/4/835	Current	**61KJ80**
LED	10 W	4000K	1550 lm	LED10ET8/G/4/840	Current	**61KJ81**
LED	10 W	5000K	1600 lm	LED10ET8/G/4/850	Current	**61KJ82**
LED	11 W	3000K	2000 lm	LED15ET8/G/4/830	Current	**61KJ92**
LED	15 W	3500K	2100 lm	LED15ET8/G/4/835	Current	**61KJ83**
LED	15 W	4000K	2100 lm	LED15ET8/G/4/840	Current	**61KJ84**
LED	15 W	5000K	2150 lm	LED15ET8/G/4/850	Current	**61KJ85**
LED	18 W	3000K	2300 lm	LED18ET8/G/4/830	Current	**61KJ93**
LED	18 W	3500K	2400 lm	LED18ET8/G/4/835	Current	**61KJ86**
LED	18 W	4000K	2400 lm	LED18ET8/G/4/840	Current	**61KJ87**
LED	18 W	5000K	2450 lm	LED18ET8/G/4/850	Current	**61KJ88**
Fluorescent	28 W	3500K	2,595 lm	F28T8/XL/SPX35/ECO/CVG	Current	**3DXN8**
Fluorescent	28 W	4100K	2,595 lm	F28T8/XL/SPX41/ECO/CVG	Current	**3DXN9**
Fluorescent	28 W	4100K	2,725 lm	F32T8/ADV841/EW/28W	Shat-R-Shield	**21GP85**
Fluorescent	28 W	5000K	2,595 lm	F28T8/XL/SPX50/ECO/CVG	Current	**3DXP1**
Fluorescent	28 W	5000K	2,675 lm	F32T8/ADV850/EW/28W	Shat-R-Shield	**21GP86**
Fluorescent	32 W	3000K	2,690 lm	F32T8/SPX30/ECO/CVG	Current	**5XN96**
Fluorescent	32 W	3500K	2,690 lm	F32T8/SPX35/ECO/CVG	Current	**5XN97**
Fluorescent	32 W	4100K	2,600 lm	F32T8/TL941/Alto	Shat-R-Shield	**8PK79**
Fluorescent	32 W	4100K	2,690 lm	F32T8/SPX41/ECO/CVG	Current	**5XN98**
Fluorescent	32 W	5000K	2,600 lm	F32T8/TL950/Alto	Shat-R-Shield	**21GP84**
Fluorescent	32 W	5000K	2,715 lm	S/B F3T8/SPX50/ECO/CVG	Current	**4ZY43**
Fluorescent	32 W	5000K	2,910 lm	F32T8/XL/SPX50/H/CVG	Current	**2EAE7**
Fluorescent	32 W	6500K	2,900 lm	F32T8SPX65ECO/CVG	Current	**4ZY42**
T8 Bulb Shape, Single Pin (FA8) Base						
8 ft Nominal Length						
Fluorescent	59 W	4100K	5,770 lm	F96T8/SPX41/CVG	Current	**4WW77**
Fluorescent	59 W	4100K	5,900 lm	F096/841/ECO (PK X 24)	Shat-R-Shield	**9UCN5**
T12 Bulb Shape, Medium Bi-Pin (G13) Base						
4 ft Nominal Length						
Fluorescent	34 W	4100K	2,130 lm	F34/CX41WMECOCVG	Current	**4WX02**
Fluorescent	40 W	3500K	2,550 lm	F40T12/ECO	Shat-R-Shield	**33H566**
Fluorescent	40 W	4100K	2,600 lm	F40T12 CW SUPREME	Shat-R-Shield	**33H567**
Fluorescent	40 W	6500K	1,687 lm	F40T12/DX/ECO/CVG	Current	**3DXP2**
T12 Bulb Shape, Recessed Double Contact (R17d) Base						
8 ft Nominal Length						
Fluorescent	110 W	4100K	8,800 lm	F96T12/CW/HO/O	Shat-R-Shield	**21EK75**
T12 Bulb Shape, Single Pin (FA8) Base						
6 ft Nominal Length						
Fluorescent	56 W	4100K	4,450 lm	—	Shat-R-Shield	**55VR69**
8 ft. Nominal Length						
Fluorescent	75 W	3500K	5,000 lm	F75T12/ECO	Shat-R-Shield	**33H568**
Fluorescent	75 W	4100K	5,000 lm	F96T 12CW SUPREME	Shat-R-Shield	**33H569**

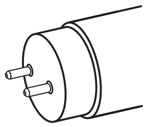
PHILIPS Current MaxLite

Plug & Play LED U-Bend Light Bulbs (UL Type A)

Install in fluorescent lighting fixtures powered by ballasts. Use of these bulbs avoids the expense of retrofitting lighting fixtures with LED drivers or wiring the bulbs into the building's power supply when switching lighting systems. Users must verify that the light bulbs are compatible with the ballasts in the fixtures they will be installed in.

Wattage Equivalency	Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base											
22 ½ in Length											
32W LFL	13 W	6 in	Philips	2,000 lm	**53YZ39**	2,000 lm	**53YZ40**	2,100 lm	**53YZ41**	2,100 lm	**53YZ42**
	13 W	6 in	Current	—	—	1,850 lm	**246N07**	1,900 lm	**48UV48**	1,900 lm	**48UV49**
	13 W	6 in	Maxlite	—	—	1800 lm	**56LF76**	1850 lm	**56LF75**	1900 lm	**56LF77**

48UV48



Medium Bi-Pin (G13) Base

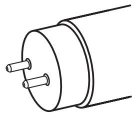
Current PHILIPS

Ballast-Bypass LED U-Bend Light Bulbs (UL Type B)

Ballast-bypass bulbs do not require a ballast or driver for power. Install in compatible fluorescent lighting fixtures. These bulbs eliminate the risk of lighting outages due to faulty ballasts or drivers and avoid the expense of installing LED drivers when converting lighting systems. They require the fixtures to be wired into the building's power supply, so they are not suitable for facilities that have frequent power surges.

Wattage Equivalency	Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base											
22 ½ in Length											
28/32W LFL	13 W	6 in	Current	1,750 lm	**61KT11**	1,800 lm	**61KT12**	1,850 lm	**61KT13**	1,850 lm	**61KT14**
	13 W	1 ⅝ in	Current	1,750 lm	**61KT15**	1,800 lm	**61KT16**	1,850 lm	**61KT17**	1,850 lm	**61KT18**
32W LFL	15.5 W	6 in	Philips	2,000 lm	**494P27**	2,000 lm	**494P28**	2,100 lm	**494P29**	2,100 lm	**494P30**

494P27



Medium Bi-Pin (G13) Base

PHILIPS Current LumaPro SYLVANIA

Fluorescent U-Bend Light Bulbs (no UL Type)

An economical choice for lighting large spaces, these bulbs have pin-type connectors and can be installed in compatible lighting fixtures with a ballast that provides current to the bulb.

Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base										
22 ½ in Length										
25 W	6 in	Philips	—	—	—	—	2,400 lm	**492Y28**	—	—
31 W	1 ⅝ in	Philips	—	—	2,750 lm	**492Y25**	2,750 lm	**492Y24**	—	—
	1 ⅝ in	Current	2,440 lm	**2ETT7**	2,440 lm	**2ETT8**	2,440 lm	**2ETT9**	—	—
	1 ⅝ in	LumaPro	—	—	2,700 lm	**5NPL8**	2,700 lm	**5NPL9**	—	—
	1 ⅝ in	Sylvania	—	—	2,725 lm	**56GK71**	2,775 lm	**56GK78**	—	—
32 W	6 in	Current	—	—	2,440 lm	**4HY85**	2,440 lm	**4HY86**	—	—
	6 in	LumaPro	2,800 lm	**5NPL4**	2,800 lm	**5NPL5**	2,800 lm	**5NPL6**	—	—
	6 in	Current	2,440 lm	**4HY84**	2,800 lm	**2ETT2**	2,800 lm	**2ETT3**	—	—
	6 in	Sylvania	—	—	2,900 lm	**56GK43**	2,900 lm	**56GK88**	2,850 lm	**56GK28**
	6 in	Sylvania	—	—	2,850 lm	**56GK57**	2,850 lm	**56GK89**	—	—
	6 in	Philips	—	—	2,800 lm	**492Y26**	2,800 lm	**492Y23**	2,750 lm	**492Y27**
	6 in	Sylvania	—	—	—	—	2,850 lm	**60UA64**	—	—
T12 Lamps, Medium Bi-Pin (G13) Base										
40 W	6 in	Philips	—	—	—	—	2,300 lm	**492Y29**	—	—

492Y24

Medium Bi-Pin (G13) Base

56GK88

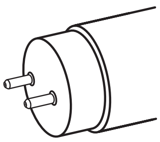
shat-r-shield INC. The Protective Lighting Company MaxLite

Fluorescent Shatter-Resistant U-Bend Light Bulbs

A coating on the surface of the bulb keeps broken glass, mercury, and phosphors contained if the bulb bursts or breaks, preventing safety hazards. Install in compatible lighting fixtures to provide general area lighting in manufacturing plants, food-processing facilities, and other environments where product contamination must be avoided. Use in areas where the light bulbs may be exposed to shaking or impacts, such as railway systems and freight elevators.

Watts	Bulb Bend Radius	Brand	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.
T8 Lamps, Medium Bi-Pin (G13) Base								
22 ½ in Length								
32 W	6 in	Shat-R-Shield	2,800 lm	**6DZF9**	2,800 lm	**6DZG0**	2,800 lm	**6DZG1**
25 ½ in Length								
15 W	6 in	Maxlite	—	—	1800 lm	**56LF79**	1850 lm	**56LF78**
T12 Lamps, Medium Bi-Pin (G13) Base								
22 ½ in Length								
40 W	6 in	Shat-R-Shield	—	—	2,300 lm	**33H577**	2,300 lm	**33H578**

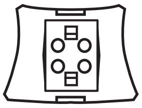
6DZG0



Medium Bi-Pin (G13) Base

FEIT ELECTRIC Current PHILIPS

Fluorescent Circline Light Bulbs



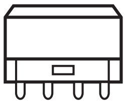
4-Pin (G10q)

1V860

These compact bulbs consist of a tube that has been bent into a circle to provide even light distribution for general area lighting. They can fit into small spaces such as drum-style ceiling fixtures and magnifier lamps. Circline bulbs have bases with pins that plug into matching sockets on compatible light fixtures.

Watts	Color Temp.	Lumens	Brand	Designation	Item No.	Case Qty.
4-Pin (G10Q) Base						
8 ¼ in Overall Bulb Dia.						
15 W	4100K	1400 lm	Feit Electric	FC8/840/LED	**56JH58**	12
12 in Overall Bulb Dia.						
20 W	4100K	2000 lm	Feit Electric	FC12/840/LED	**56JH57**	12
4-Pin (G10q) Base						
8 in Overall Bulb Dia.						
22 W	4100K	1,100 lm	Current	FC8T9	**1V860**	12
		1,050 lm	Philips	FC8T9	**492Y30**	12
	3000K	1,150 lm	Philips	FC8T9	**492Y31**	12
	6200K	910 lm	Philips	FC8T9	**492Y32**	12
12 in Overall Bulb Dia.						
32 W	4100K	1,950 lm	Current	FC12T9/CW	**1V776**	12
		1,800 lm	Philips	FC12T9	**492Y33**	12
	3000K	1,900 lm	Philips	FC12T9	**492Y34**	12
16 in Overall Bulb Dia.						
40 W	4100K	2,700 lm	Current	FC16T9	**1V880**	12
		2,500 lm	Philips	FC16T9	**492Y35**	12

494D34



4-Pin (2G11) Base

SYLVANIA PHILIPS Current

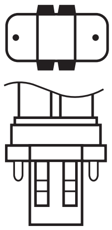
PL-L Long Twin-Tube Plug-In Light Bulbs

PL-L long twin-tube plug-in light bulbs have an overall length of 8 in. or more. The bulbs have bases with four pins that plug into matching sockets on lighting fixtures. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of two long tubes. PL-L long twin-tube plug-in light bulbs are used in hall lights, office lights, and signs.

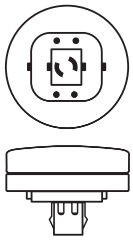
Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.
4-Pin Base, PL-L Plug-In Light Bulbs												
Compact Fluorescent	40W	33 W	4-Pin (2G11)	Sylvania	—	—	—	—	—	—	2709 lm	**56GK82**
LED	40W CFL	16.5 W	4-Pin (2G11)	Philips	—	—	2,200 lm	**494D34**	2,200 lm	**494D35**	2,300 lm	**494D36** *
	40 W LFL	17 W	4-Pin (2G11)	Philips	—	—	2100 lm	**784NA6**	2100 lm	**784NA7**	2200 lm	**784NA8** *
Compact Fluorescent	60W INC	13 W	4-Pin(2GX7)	Sylvania	688 lm	**60UA18**	—	—	—	—	—	—
	65W INC	18 W	4-Pin (2G11)	Current	—	—	—	—	1,080 lm	**1E305**	1,080 lm	**6V033**
	75W INC	18 W	4-Pin(2G11)	Sylvania	—	—	1,075 lm	**60UA45**	—	—	—	—
LED	90W INC/22W CFL	17 W	4-Pin (2G11)	Current	—	—	2,150 lm	**48UV44**	2,150 lm	**48UV45**	2,200 lm	**48UV46** *
Compact Fluorescent	100W INC	36.3 W	4-Pin (2G11)	Philips	—	—	3,500 lm	**492Y98**	—	—	—	—
	100W INC	40 W	4-Pin (2G11)	Philips	—	—	—	—	3,500 lm	**492Y97**	3,500 lm	**492Y99**
	150W INC	25 W	4-Pin (2G11)	Current	—	—	—	—	2,600 lm	**4FFC2**	—	—
	180W INC	39 W	4-Pin (2G11)	Current	—	—	—	—	2,510 lm	**6V066**	2,510 lm	**6V039**
	180W INC	40 W	4-Pin (2G11)	Current	—	—	2,840 lm	**4VC25**	2,840 lm	**4VC26**	2,840 lm	**4VC27**
	180W INC	40 W	4-Pin (2G11)	Sylvania	—	—	3150 lm	**56GK17**	3150 lm	**56GK90**	—	—
	200W INC	55 W	4-Pin (2G11)	Current	—	—	—	—	—	—	4,080 lm	**6XV16**

** 4000K*

494C78



2-Pin (GX23) Base



4-Pin GX24Q-5 Base

FEIT ELECTRIC PHILIPS SYLVANIA Current

PL-S Short Twin-Tube Plug-In Light Bulbs

PL-S short twin-tube plug-in light bulbs have a maximum overall length of 7 in. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of two short tubes.The bulbs have bases with two or four pins that plug into matching sockets on lighting fixtures. PL-S short twin-tube plug-in light bulbs are used in emergency lighting, wall lights, and bulkheads.

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.	5000K Lumens	5000K Item No.
2-Pin Wedge-Base, PL-S Plug-In Light Bulbs														
LED	13W INC	6 W	2-Pin (GX23)	Feit Electric	600 lm	**56JH48**	—	—	—	—	—	—	—	—
	13W LFL	5 W	2-Pin (GX23)	Philips	520 lm	**494C78**	—	—	560 lm	**494C79**	560 lm	**494C80** *	—	—
Compact Fluorescent	40W INC	9 W	2-Pin (G23)	Sylvania	600 lm	**60UA70**	—	—	—	—	—	—	—	—
	60W INC	13 W	2-Pin (GX23-2)	Current	685 lm	**1PGV3**	—	—	—	—	685 lm	**1PGV6**	—	—
	60W INC	13 W	2-Pin (GX23)	Sylvania	800 lm	**56GJ96**	800 lm	**60UA53**	800 lm	**60UA51**	800 lm	**56GK22**	—	—
	60W INC	13 W	2-Pin (GX23)	Current	710 lm	**1PGU8**	—	—	710 lm	**1PGU5**	710 lm	**1PGU6**	—	—
	60W INC	13 W	2-Pin (GX23-2)	Sylvania	780 lm	**60UA25**	780 lm	**60UA27**	—	—	—	—	—	—
	60W INC	13 W	2-Pin (GX23)	Sylvania	—	—	—	—	—	—	780 lm	**56GK09**	—	—
LED	60W INC/13 to 15W CFL	5 W	2-Pin (GX23)	Current	500 lm	**54EL33**	530 lm	**54EL34**	545 lm	**54EL35**	560 lm	**54EL36** *	565 lm	**54EL37**
Compact Fluorescent	65W INC	18 W	2-Pin (G24D-2)	Current	980 lm	**1PGW6**	—	—	980 lm	**1PGW8**	980 lm	**1PGW9**	—	—
	65W INC	18 W	2-Pin (G24D-2)	Sylvania	—	—	—	—	1150 lm	**56GK12**	—	—	—	—
	75W INC	18 W	2-Pin (G24D-2)	Sylvania	1,150 lm	**60UA63**	—	—	—	—	—	—	—	—
	100W INC	13 W	2-Pin (GX23)	Philips	825 lm	**492Z06**	—	—	—	—	—	—	—	—
4-Pin Base, PL-S Plug-In Light Bulbs														
Compact Fluorescent	60W INC	13 W	4-Pin (2GX7)	Sylvania	—	—	688 lm	**60UA26**	—	—	688 lm	**60UA31**	—	—
4-Pin Wedge-Base, PL-S Plug-In Light Bulbs														
LED	26W INC	11.3 W	4-Pin (GX24q)	Feit Electric	800 lm	**56JH86**	—	—	—	—	—	—	—	—
	26W INC	12 W	4-Pin (GX24q)	Feit Electric	1100 lm	**56JH85**	—	—	—	—	—	—	—	—

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PHILIPS Current SYLVANIA

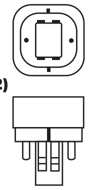
PL-C Quad-Tube Plug-In Light Bulbs

PL-C quad-tube plug-in light bulbs have a maximum overall length of 9 in. They have a larger diameter and provide more light than PL-T triple-tube plug-in light bulbs. The bulbs have bases with two or four pins that plug into matching sockets on lighting fixtures. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of four tubes. PL-C quad-tube plug-in light bulbs are used in desk lamps, emergency light fixtures, downlights, sconces, corridor lights, office light fixtures, and retail store light fixtures.

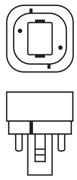
54EL38

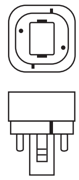
492Z09

2-Pin (GX23) Base


2-Pin (GX23-2) Base

2-Pin (G23) Base


2-Pin (G24D-2) Base


2-Pin (G24D-3) Base

Light Technology	Wattage Equivalency	Watts	Base Type	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.
2-Pin Wedge-Base, PL-C Plug-In Light Bulbs												
LED	13W LFL	5 W	2-Pin (GX23)	Philips	—	—	—	—	550 lm	**494C83**	580 lm	**494C84** *
	13W LFL	5 W	2-Pin (GX23)	Philips	—	—	—	—	550 lm	**494C87**	580 lm	**494C88** *
	32W CFL	12 W	4-Pin (G24q/GX24)	Philips	1,300 lm	**56LX22**	—	—	—	—	—	—
Compact Fluorescent	60W INC	13 W	2-Pin (GX23-2)	Current	—	—	—	—	685 lm	**1PGV5**	—	—
	65W INC	18 W	2-Pin (G24D-3)	Sylvania	—	—	—	—	—	—	1150 lm	**56GK24**
LED	75W INC/18 to 20W CFL	10.5 W	2-Pin (G24d)	Current	1,000 lm	**54EL38**	1,000 lm	**54EL39**	1,050 lm	**54EL40**	1,050 lm	**54EL41** *
Compact Fluorescent	100W INC	12.7 W	2-Pin (GX23-2)	Philips	—	—	—	—	—	—	800 lm	**492Z08**
	100W INC	13 W	2-Pin (GX23)	Philips	—	—	—	—	—	—	825 lm	**492Z07**
	100W INC	17.9 W	2-Pin (G24Q-2)	Philips	—	—	—	—	—	—	1,200 lm	**492Z02**
	100W INC	18 W	2-Pin (G24D-2)	Philips	—	—	—	—	1,200 lm	**492Z01**	—	—
	100W INC	26 W	2-Pin (G24D-3)	Sylvania	1710 lm	**56GJ94**	1,710 lm	**60UA44**	1710 lm	**56GK49**	1710 lm	**56GK59**
	100W INC	26 W	2-Pin (G24D-3)	Current	1,460 lm	**1PGX9**	—	—	1,460 lm	**1PGY2**	1,460 lm	**1PGY3**
	100W INC	26.5 W	2-Pin (G24D-3)	Philips	1,800 lm	**492Z03**	—	—	1,800 lm	**492Z04**	1,800 lm	**492Z05**
4-Pin Wedge-Base, PL-C Plug-In Light Bulbs												
LED	26W CFL	8.5 W	4-Pin (G24q/GX24)	Philips	850 lm	**44ZA56**	900 lm	**44ZA55**	900 lm	**44ZA60**	950 lm	**44ZA57** *
	26W CFL	10.5 W	4-Pin (G24q/GX24)	Philips	1,200 lm	**44ZA63**	1,200 lm	**44ZA58**	1,200 lm	**44ZA59**	1,300 lm	**44ZA54** *
	32W CFL	12 W	4-Pin (G24q)	Philips	—	—	—	—	1450 lm	**55YD34**	1500 lm	**55YD33** *
	32W CFL	12 W	4-Pin (G24q)	Philips	—	—	—	—	—	—	1500 lm	**55YD35** *
Compact Fluorescent	60W INC	13 W	4-Pin (G24Q-1)	Sylvania	900 lm	**56GK34**	900 lm	**56GK21**	900 lm	**56GK58**	900 lm	**56GK60**
	60W INC	13 W	4-Pin (G24Q-1)	Current	755 lm	**1PGW2**	755 lm	**1PGW3**	755 lm	**1PGW4**	755 lm	**1PGW5**
	65W INC	18 W	4-Pin (G24Q-2)	Sylvania	1150 lm	**56GJ91**	989 lm	**60UA14**	1150 lm	**56GK46**	1150 lm	**56GK42**
	65W INC	18 W	4-Pin (G24Q-2)	Current	970 lm	**1PGX1**	970 lm	**1PGX2**	970 lm	**1PGX3**	970 lm	**1PGX4**
	100W INC	13 W	4-Pin (G24Q-1)	Philips	925 lm	**492Z09**	900 lm	**492Z10**	900 lm	**492Z11**	925 lm	**492Z12**
	100W INC	16.5 W	4-Pin (G24Q-2)	Philips	1,200 lm	**492Z13**	—	—	—	—	—	—
	100W INC	18 W	4-Pin (G24Q-2)	Philips	—	—	—	—	1,200 lm	**492Z14**	1,200 lm	**492Z15**
	100W INC	26 W	4-Pin (G24Q-3)	Current	1,530 lm	**1PGY4**	1,530 lm	**1PGY5**	1,800 lm	**1PGY6**	1,530 lm	**1PGY7**
	100W INC	26 W	4-Pin (G24Q-3)	Philips	1,800 lm	**492Z16**	1,800 lm	**492Z17**	1,800 lm	**492Z18**	1,800 lm	**492Z19**
	100W INC	26 W	4-Pin (G24Q-3)	Sylvania	1710 lm	**56GK20**	1710 lm	**56GK05**	1710 lm	**56GK87**	1710 lm	**56GK85**
	100W INC	26 W	4-Pin (GX24Q-3)	Sylvania	—	—	1,501 lm	**60UA17**	—	—	—	—

*** 4000K**

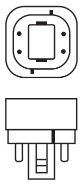
Current SYLVANIA PHILIPS

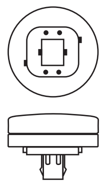
PL-T Triple-Tube Plug-In Light Bulbs

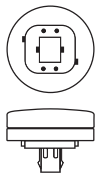
They have a larger diameter and provide more light than PL-S short twin-tube plug-in light bulbs. Compact fluorescent (CFL) and fluorescent versions of these bulbs consist of three short tubes. PL-T triple-tube plug-in light bulbs are used in corridor light fixtures and office light fixtures.

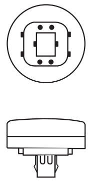
460U53

492Z26


4-Pin (G24Q-3) Base


4-Pin (GX24Q-2) Base


4-Pin (GX24Q-3) Base


4-Pin (GX24Q-4) Base

Light Technology	Wattage Equivalency	Watts	Bulb Shape	Base Type	Dimmable	Overall Length	Brand	2700K Lumens	2700K Item No.	3000K Lumens	3000K Item No.	3500K Lumens	3500K Item No.	4100K Lumens	4100K Item No.
4-Pin Wedge-Base, PL-T Plug-In Light Bulbs															
LED	26W CFL	9 W	PL Vertical	4-Pin (G24q/GX24)	No	5 ⅜ in	Current	1,100 lm	**460U49**	1,200 lm	**460U50**	1,200 lm	**460U51**	1,200 lm	**460U52** *
	26W CFL	9 W	PL Horizontal	4-Pin (G24q/GX24)	No	5 ⅜ in	Current	1,100 lm	**460U53**	1,200 lm	**460U54**	1,200 lm	**460U55**	1,200 lm	**460U56** *
	26W CFL	18.5 W	PL Vertical	4-Pin (GX24q)	No	6 ½ in	Current	1,800 lm	**54EL25**	1,850 lm	**54EL26**	1,950 lm	**54EL27**	1,950 lm	**54EL28** *
	26W CFL	18.5 W	PL Horizontal	4-Pin (GX24q)	No	6 ¾ in	Current	1,800 lm	**54EL29**	1,850 lm	**54EL30**	1,950 lm	**54EL31**	1,950 lm	**54EL32** *
Compact Fluorescent	60W INC	13 W	T4	4-Pin(GX24Q-1)	Yes	4 13/64 in	Sylvania	774 lm	**60UA48**	774 lm	**60UA52**	774 lm	**60UA57**	—	—
	75W INC	18 W	T4	4-Pin(GX24Q-2)	Yes	4 13/32 in	Sylvania	1,001 lm	**60UA42**	1,001 lm	**60UA29**	1,001 lm	**60UA61**	—	—
	100W INC	26 W	T4	4-Pin (GX24Q-3)	Yes	5 ¼ in	Current	1,530 lm	**1PGZ7**	1,530 lm	**1PGZ8**	1,530 lm	**1PGZ9**	1,530 lm	**1PHA1**
	100W INC	26 W	T4	4-Pin (GX24Q-3)	Yes	5 in	Sylvania	1746 lm	**56GJ82**	—	—	1746 lm	**56GK69**	1800 lm	**56GK52**
	100W INC	26 W	PL-T	4-Pin (GX24Q-3)	Yes	5 ¼ in	Philips	1,750 lm	**492Z20**	—	—	1,750 lm	**492Z21**	1,750 lm	**492Z22**
	100W INC	32 W	PL-T	4-Pin (GX24Q-3)	Yes	5 ¼ in	Philips	2,250 lm	**492Z23**	2,250 lm	**492Z24**	2,250 lm	**492Z25**	2,250 lm	**492Z26**
	100W INC	42 W	PL-T	4-Pin (GX24Q-4)	Yes	5 ¼ in	Philips	—	—	3,200 lm	**492Z27**	3,200 lm	**492Z28**	3,200 lm	**492Z29**
	150W INC	32 W	T4	4-Pin (GX24Q-3)	Yes	5 ½ in	Current	2,040 lm	**1PHA2**	2,040 lm	**1PHA3**	2,040 lm	**1PHA4**	2,040 lm	**1PHA5**
	150W INC	32 W	T4	4-Pin (GX24Q-3)	Yes	5 ⅝ in	Sylvania	2400 lm	**56GJ87**	2400 lm	**56GK16**	2400 lm	**56GK86**	2400 lm	**56GK83**
	190W INC	42 W	T4	4-Pin (GX24Q-4)	Yes	6 ½ in	Sylvania	2,670 lm	**60UA24**	3200 lm	**56GK11**	3200 lm	**56GK64**	3200 lm	**56GK72**
	190W INC	42 W	T4	4-Pin (GX24Q-4)	Yes	5 ½ in	Current	2,690 lm	**1PHA6**	2,690 lm	**1PHA7**	2,690 lm	**1PHA8**	3,200 lm	**1PHA9**

*** 4000K**

Scan. Order. Done.
Details on page A1.

High-Intensity Discharge (HID) Lamp Information

HID lamps offer high light output and have longer life expectancy than incandescent bulbs. **LED** lamps use significantly less energy and need to be replaced less often than other HID lamp types. They reach full brightness instantly, produce very little heat, and can withstand temperature changes, vibration, and humidity. **Ceramic metal halide and metal halide** lamps offer better color rendering than high-pressure sodium and mercury vapor lamps and are used for indoor and outdoor lighting. **High-pressure sodium** and **mercury vapor** lamps are used for outdoor, security, and roadway lighting. Ceramic metal halide, metal halide, high-pressure sodium, and mercury vapor lamps take a few minutes to reach full brightness and must cool down before they can be restruck after turning off.

Quick Guide to Color

Color Temperature	Color Designation
1800K	Orange
1900-2200K	Warm Yellow
2700K	Soft White
3000-3200K	Warm White, SP30
3400-3700K	Neutral White, SP35
3800-4500K	Cool White, SP41
5200-5700K	Blue White, SP50
6200-6700K	Daylight, SP65

53PX10

2TJ27

Light Efficient Design · KEYSTONE · Current · PHILIPS · SYLVANIA

EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

The EX39 extended mogul screw base on these light bulbs has a 39mm dia. and a longer center terminal than an E39 base. The bulbs screw into both E39 sockets (typically found on enclosed fixtures) and protected EX39 sockets (typically found on open fixtures). These bulbs are used in fixtures with a high mounting height, such as street lights, floodlights, and high-bay and low-bay lights in warehouses and convention centers.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Bulb Power Source	Overall Length	ANSI Code	Brand	Item No.
EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs										
	12 W, 18 W, 24 W	3000K, 4000K, 5000K	1550 to 3360 lm	50,000 hr	Cylindrical	—	6 ⅞ in	—	Light Efficient Design	**792UW4**
	27 W	3000K	3,900 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61CZ90**
	27 W	4000K	4,000 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61CZ91**
	27 W	5000K	4,100 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61CZ92**
	30 W	3000K, 4000K, 5000K	3500 lm, 4200 lm, 4300 lm	50,000 hr	Cylindrical	—	6 ⅞ in	—	Light Efficient Design	**792VA4**
	36 W	3000K, 4000K, 5000K	2,430 lm, 2,520 lm, 2,610 lm, 3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61DA08**
	45 W	3000K	6,200 lm	50,000 hr	HID	Direct Wired	9 ¼ in	—	Keystone Technologies	**61CZ93**
	45 W	3000K	6,200 lm	50,000 hr	HID	Direct Wired	10 ¼ in	—	Keystone Technologies	**61CZ96**
	45 W	3000K, 4000K, 5000K	3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm, 6,075 lm, 6,300 lm, 6,525 lm	50,000 hr	HID	Direct Wired	9 ⅞ in	—	Keystone Technologies	**61DA10**
	45 W	4000K	6,300 lm	50,000 hr	HID	Direct Wired	9 ¾ in	—	Keystone Technologies	**61CZ97**
	45 W	5000K	6,400 lm	50,000 hr	HID	Direct Wired	9 ¾ in	—	Keystone Technologies	**61CZ98**
	50 W	3000K, 4000K, 5000K	6400 lm, 6900 lm, 7200 lm	50,000 hr	Cylindrical	—	8 ½ in	—	Light Efficient Design	**792VA6**
	54 W	3000K, 4000K, 5000K	4,860 lm, 5,040 lm, 5,220 lm, 6,075 lm, 6,300 lm, 6,525 lm, 7,290 lm, 7,560 lm, 7,830 lm	50,000 hr	HID	Direct Wired	9 ⅞ in	—	Keystone Technologies	**61DA11**
LED	63 W	3000K	8,820 lm	50,000 hr	HID	Direct Wired	10 ¼ in	—	Keystone Technologies	**61CZ99**
	63 W	3000K, 4000K, 5000K	6,075 lm, 6,300 lm, 6,525 lm, 7,290 lm, 7,560 lm, 7,830 lm, 8,505 lm, 8,820 lm, 9,035 lm	50,000 hr	HID	Direct Wired	10 ½ in	—	Keystone Technologies	**61DA12**
	63 W	4000K	9,198 lm	50,000 hr	HID	Direct Wired	11 ⅛ in	—	Keystone Technologies	**61DA01**
	63 W	5000K	9,450 lm	50,000 hr	HID	Direct Wired	11 ⅛ in	—	Keystone Technologies	**61DA02**
	80 W	3000K	12,000 lm	50,000 hr	ED23.5	Direct Wired	7 ¾ in	—	Current	**788VT6**
	80 W	3000K, 4000K, 5000K	10,800 lm, 11,200 lm, 11,600 lm, 7,290 lm, 7,560 lm, 7,830 lm, 8,505 lm, 8,820 lm, 9,135 lm	50,000 hr	HID	Direct Wired	9 ¾ in	—	Keystone Technologies	**61DA13**
	80 W	3000K, 4000K, 5000K	10600 lm, 10700 lm, 10800 lm	50,000 hr	Cylindrical	—	10 in	—	Light Efficient Design	**792VA7**
	80 W	4000K	11,600 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61DA03**
	80 W	5000K	12,000 lm	50,000 hr	HID	Direct Wired	8 ¾ in	—	Keystone Technologies	**61DA04**
	100 W	3000K, 4000K, 5000K	10,800 lm, 11,200 lm, 11,600 lm, 13,500 lm, 14,000 lm, 14,500 lm, 8,505 lm, 8,820 lm, 9,135 lm	50,000 hr	HID	Direct Wired	10 ⅜ in	—	Keystone Technologies	**61DA14**
	110 W	3000K, 4000K, 5000K	14500 lm, 15400 lm, 15700 lm	50,000 hr	Cylindrical	—	11 ⅜ in	—	Light Efficient Design	**792VA8**
	110 W	3000K, 4000K, 5000K	14500 lm, 15400 lm, 15700 lm	50,000 hr	Cylindrical	—	11 ⅜ in	—	Light Efficient Design	**792VA9**
	110 W	4000K	15,950 lm	50,000 hr	HID	Direct Wired	11 ⅛ in	—	Keystone Technologies	**61DA05**
	110 W	5000K	16,500 lm	50,000 hr	HID	Direct Wired	11 ⅛ in	—	Keystone Technologies	**61DA06**
100W MH/100W HPS Wattage Equivalency										
	18 W	3000K, 4000K, 5000K	2,450 lm; 2560 lm; 2610 lm	50,000 hr	Cylindrical	Direct Wired	6 ⅝ in	—	Light Efficient Design	**60TD99**
LED	50 W	2450K	7,150 lm	50,000 hr	Cylindrical	Direct Wired	7 ¾ in	—	Current	**55GU11**
	50 W	4000K	7,500 lm	50,000 hr	ED37	Direct Wired	7 ¾ in	—	Current	**429U45**
	50 W	5000K	7,500 lm	50,000 hr	ED37	Direct Wired	7 ¾ in	—	Current	**429U46**
125W MH/125WHPS Wattage Equivalency										
LED	65 W	4000K	7,000 lm	50,000 hr	T140	Direct Wired	10 ½ in	—	Philips	**55GY63**
	65 W	5000K	7,000 lm	50,000 hr	T140	Direct Wired	10 ½ in	—	Philips	**55GY64**
150W MH/150W HPS Wattage Equivalency										
	24 W	5700K	3,425 lm	50,000 hr	Cylindrical	Direct Wired	6 ¾ in	—	Light Efficient Design	**508G21**
	25 W	3000K	3,375 lm	50,000 hr	A23	Direct Wired	6 ¾ in	—	Light Efficient Design	**55VR16**
LED	25 W	4000K	3,525 lm	50,000 hr	A23	Direct Wired	6 ¾ in	—	Light Efficient Design	**55VR17**
	75 W	4000K	8,500 lm	50,000 hr	T140	Direct Wired	10 ½ in	—	Philips	**55GY61**
	75 W	5000K	8,500 lm	50,000 hr	T140	Direct Wired	10 ½ in	—	Philips	**55GY62**
175W MH/175W HPS Wattage Equivalency										
	30 W	4000K	4,350 lm	50,000 hr	Cylindrical	Direct Wired	11 ½ in	—	Light Efficient Design	**508G09**
	35 W	3000K	5,140 lm	50,000 hr	Cylindrical	Direct Wired	7 ¼ in	—	Light Efficient Design	**60TD93**
	35 W	4000K	5,290 lm	50,000 hr	Cylindrical	Direct Wired	7 ¼ in	—	Light Efficient Design	**60TD94**
	35 W	5000K	5,360 lm	50,000 hr	Cylindrical	Direct Wired	7 ¼ in	—	Light Efficient Design	**60TD95**
LED	35 W, 45 W, 60 W	3000K, 4000K, 5000K	5,290 lm, 6,510 lm, 8,790 lm	50,000 hr	Cylindrical	Direct Wired	7 ¼ in	—	Light Efficient Design	**60TD84**
	45 W	4000K	5,334 lm	50,000 hr	High/Low Bay	Direct Wired	7 ½ in	—	Light Efficient Design	**508G03**
	45 W	5000K	5,560 lm	50,000 hr	High/Low Bay	Direct Wired	7 ½ in	—	Light Efficient Design	**508G04**
	45 W	5000K	5,560 lm	50,000 hr	High/Low Bay	Plug and Play	6 ⅞ in	—	Light Efficient Design	**60RD75**
	80 W	4000K	12,000 lm	50,000 hr	ED37	Direct Wired	7 ¾ in	—	Current	**429U47**
	80 W	5000K	12,000 lm	50,000 hr	ED37	Direct Wired	7 ¾ in	—	Current	**429U48**

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Light Efficient Design KEYSTONE Current PHILIPS SYLVANIA

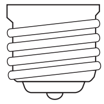
EX39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Bulb Power Source	Overall Length	ANSI Code	Brand	Item No.
250W MH/250W HPS Wattage Equivalency										
LED	45 W	4000K	6,525 lm	50,000 hr	Cylindrical	Direct Wired	11 ½ in	—	Light Efficient Design	**508G12**
	75 W	3000K	9,750 lm	50,000 hr	High/Low Bay	Direct Wired	8 ⅞ in	—	Light Efficient Design	**508G05**
	75 W	4000K	10,500 lm	50,000 hr	High/Low Bay	Direct Wired	8 ⅞ in	—	Light Efficient Design	**508G06**
	75 W	5000K	10,875 lm	50,000 hr	High/Low Bay	Direct Wired	8 ⅞ in	—	Light Efficient Design	**508G07**
	80 W	5000K	10,850 lm	50,000 hr	Cylindrical	Direct Wired	8 ⅜ in	—	Light Efficient Design	**493U98**
	80 W	5000K	7,635 lm	50,000 hr	Cylindrical	Plug and Play	11 ½ in	—	Light Efficient Design	**53PX15**
	90 W	4000K	11,825 lm	50,000 hr	High/Low Bay	Direct Wired	9 ⅜ in	—	Light Efficient Design	**54XJ70**
	90 W	5000K	11,825 lm	50,000 hr	High/Low Bay	Direct Wired	9 ⅜ in	—	Light Efficient Design	**54XJ71**
	95 W	4000K	12,900 lm	50,000 hr	High/Low Bay	Direct Wired	9 ¾ in	—	Light Efficient Design	**45PC36**
	95 W	5000K	13,000 lm	50,000 hr	High/Low Bay	Direct Wired	9 ¾ in	—	Light Efficient Design	**45PC12**
	100 W	4000K	11,046 lm	50,000 hr	High/Low Bay	Plug and Play	8 in	—	Light Efficient Design	**53PX10**
	100 W	5700K	10,096 lm	50,000 hr	High/Low Bay	Plug and Play	8 in	—	Light Efficient Design	**53PX11**
	115 W	4000K	18,000 lm	50,000 hr	ED37	Direct Wired	8 ⅜ in	—	Current	**429U49**
	115 W	5000K	18,000 lm	50,000 hr	ED37	Direct Wired	8 ⅜ in	—	Current	**429U50**
320W MH/320W HPS Wattage Equivalency										
LED	100 W, 110 W, 80 W	3000K, 4000K, 5000K	11,290 lm, 14,270 lm, 15,690 lm	50,000 hr	Cylindrical	Direct Wired	9 ¼ in	—	Light Efficient Design	**60TD87**
Metal Halide	320 W	3700K	30,600 lm	20,000 hr	ED28	—	8 ¼ in	M132	Current	**2TJ27**
	320 W	4000K	32,000 lm	20,000 hr	ED37	—	11 ½ in	M132/M154	Current	**6XV27**
400W MH/400W HPS Wattage Equivalency										
LED	120 W	5000K	10,810 lm	50,000 hr	Cylindrical	Plug and Play	11 ½ in	—	Light Efficient Design	**53PX17**
	135 W	4000K	17,055 lm	50,000 hr	High/Low Bay	Direct Wired	10 in	—	Light Efficient Design	**54XJ68**
	135 W	5000K	17,095 lm	50,000 hr	High/Low Bay	Direct Wired	10 in	—	Light Efficient Design	**54XJ69**
	140 W	4000K	19,200 lm	50,000 hr	High/Low Bay	Direct Wired	10 ½ in	—	Light Efficient Design	**45PC35**
	140 W	4000K	18,619 lm	50,000 hr	High/Low Bay	Plug and Play	9 ⅛ in	—	Light Efficient Design	**53PX04**
	140 W	5000K	19,500 lm	50,000 hr	High/Low Bay	Direct Wired	10 ½ in	—	Light Efficient Design	**45PC11**
	140 W	5700K	17,047 lm	50,000 hr	High/Low Bay	Plug and Play	9 ⅛ in	—	Light Efficient Design	**53PX05**
	150 W	4000K	23,500 lm	50,000 hr	ED37	Direct Wired	8 ⅜ in	—	Current	**429U51**
	150 W	4000K	19,285 lm	50,000 hr	High/Low Bay	Direct Wired	10 in	—	Light Efficient Design	**54XJ66**
	150 W	5000K	23,500 lm	50,000 hr	ED37	Direct Wired	8 ⅜ in	—	Current	**429U52**
	150 W	5000K	19,375 lm	50,000 hr	High/Low Bay	Direct Wired	10 in	—	Light Efficient Design	**54XJ67**
	165 W	4000K	20,000 lm	50,000 hr	High/Low Bay	Plug and Play	9 ⅝ in	—	Philips	**53XF99**
Metal Halide	400 W	3500K	40,000 lm	20,000 hr	ED37	—	1 in	M135/O	Philips	**492Y61**
	400 W	4000K	40,000 lm	20,000 hr	ED37	—	11 ½ in	M59/O	Philips	**492Y83**
	400 W	4000K	42,000 lm	20,000 hr	ED37	—	11 ½ in	M135/M155	Current	**6XV25**
1000W MH/1000W HPS Wattage Equivalency										
LED	270 W	4000K	40,000 lm	50,000 hr	BT56	Direct Wired	12 ¼ in	—	Current	**493V22**
	270 W	4000K	34,415 lm	50,000 hr	High/Low Bay	—	12 ½ in	—	Light Efficient Design	**55VR34**
	270 W	5000K	40,000 lm	50,000 hr	BT56	Direct Wired	12 ¼ in	—	Current	**493V23**
	450 W	4000K	65,000 lm	50,000 hr	BT56	Direct Wired	12 ¼ in	—	Current	**493V24**
	450 W	5000K	65,000 lm	50,000 hr	BT56	Direct Wired	12 ¼ in	—	Current	**493V25**
Metal Halide	1,000 W	3500K	107,000 lm	12,000 hr	BT56	—	15 ⅛ in	M47/O	Philips	**492Y72**
	1,000 W	3500K	110,000 lm	12,000 hr	BT56	—	15 ⅜ in	M47	Current	**5XP29**
	1,000 W	3800K	108,000 lm	15,000 hr	BT56	—	7 21/64 in	—	Sylvania	**56GJ84**
Shatter-Resistant HID Light Bulbs										
LED	36 W	3000K, 4000K, 5000K	4,800 lm, 5,000 lm	50,000 hr	Corn Cob	Direct Wired	8 ½ in	—	Philips	**784N99**
	40 W	4000K	5,800 lm	50,000 hr	WP	Direct Wired	8 ½ in	—	Philips	**784N33**
	40 W	5000K	6,000 lm	50,000 hr	WP	Direct Wired	8 ½ in	—	Philips	**784N34**
	45 W	3000K	6,200 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784N26**
	45 W	3000K, 4000K, 5000K	5,800 lm, 6,200 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784NA0**
	45 W	3000K, 4000K, 5000K	7,500 lm, 7000 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784NA1**
	45 W	4000K	6,500 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784N27**
	45 W	5000K	6,700 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784N28**
	54 W	4000K	7,800 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784N29**
	54 W	5000K	8,000 lm	50,000 hr	Corn Cob	Direct Wired	9 ⅝ in	—	Philips	**784N30**
	60 W	4000K	8,700 lm	50,000 hr	WP	Direct Wired	10 ⅝ in	—	Philips	**784N35**
	60 W	5000K	9,000 lm	50,000 hr	WP	Direct Wired	10 ⅝ in	—	Philips	**784N36**
	63 W	3000K, 4000K, 5000K	7,800 lm, 8,500 lm	50,000 hr	Corn Cob	Direct Wired	10 ¼ in	—	Philips	**784NA2**
	63 W	4000K	9,000 lm	50,000 hr	Corn Cob	Direct Wired	10 ¼ in	—	Philips	**784N31**
	63 W	5000K	9,200 lm	50,000 hr	Corn Cob	Direct Wired	10 ¼ in	—	Philips	**784N32**
	80 W	4000K	12,000 lm	50,000 hr	Corn Cob	Direct Wired	7 ¾ in	—	Philips	**784N37**
	80 W	5000K	12,000 lm	50,000 hr	Corn Cob	Direct Wired	7 ¾ in	—	Philips	**784N38**
	145 W	4000K	20,000 lm	50,000 hr	HB	Direct Wired	11 ¼ in	—	Philips	**784N43**
	145 W	4000K	20,000 lm	50,000 hr	HB	Direct Wired	11 ⅝ in	—	Philips	**784N44**
	145 W	5000K	20,000 lm	50,000 hr	HB	Direct Wired	11 ¼ in	—	Philips	**784N45**
	145 W	5000K	20,000 lm	50,000 hr	HB	Direct Wired	11 ⅝ in	—	Philips	**784N46**
	150 W	4000K	24,000 lm	50,000 hr	Corn Cob	Direct Wired	8 ¼ in	—	Philips	**784N41**
	150 W	5000K	24,000 lm	50,000 hr	Corn Cob	Direct Wired	8 ¼ in	—	Philips	**784N42**
	165 W	4000K	25,000 lm	50,000 hr	HB	Direct Wired	11 ¼ in	—	Philips	**784N47**
	165 W	4000K	25,000 lm	50,000 hr	HB	Direct Wired	11 ⅝ in	—	Philips	**784N48**
	165 W	5000K	25,000 lm	50,000 hr	HB	Direct Wired	11 ¼ in	—	Philips	**784N49**
	165 W	5000K	25,000 lm	50,000 hr	HB	Direct Wired	11 ⅝ in	—	Philips	**784N50**
	450 W	5000K	65,000 lm	50,000 hr	Corn Cob	Direct Wired	12 ⅛ in	—	Philips	**784NA4**

45PC17

492Y79

2V358



Mogul Screw (E39) Base

PHILIPS Current

Light Efficient Design SYLVANIA

E39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs

These light bulbs have an E39 mogul screw base with a 39mm dia. They screw into standard E39 sockets, which are typically found on enclosed fixtures. E39 mogul screw-base HID and LED HID-replacement are used in fixtures with a high mounting height, such as street lights, floodlights, and high-bay and low-bay lights in warehouses and convention centers.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	ANSI Code	Brand	Item No.
E39 Mogul Screw-Base HID & LED HID-Replacement Light Bulbs									
LED	32 W	5000K	5000 lm	25,000 hr	ED90	9 ¼ in	—	Philips	**793KF1**
	32 W	3000K	4600 lm	25,000 hr	ED90	9 ¼ in	—	Philips	**793KF4**
	36 W	5000K	5900 lm	25,000 hr	ED90	9 ¼ in	—	Philips	**793KF2**
	36 W	3000K	5200 lm	25,000 hr	ED90	9 ¼ in	—	Philips	**793KF3**
70W MH/70W HPS Wattage Equivalency									
High Pressure Sodium	70 W	1900K	6,400 lm	24,000 hr	ED23-1/2	7 ¾ in	S62	Current	**2VAD4**
	70 W	2100K	6,800 lm	24,000 hr	ED23-1/2	7 ¾ in	S62	Philips	**492Y55**
100W MH/100W HPS Wattage Equivalency									
LED	30 W	2700K	2,537 lm	50,000 hr	Cylindrical	6 ⅞ in	—	Light Efficient Design	**45PC17**
High Pressure Sodium	100 W	2000K	9,500 lm	24,000 hr	ED23-1/2	7 ¾ in	S54	Current	**2VAD5**
	100 W	2100K	9,400 lm	24,000 hr	ED23-1/2	7 ¾ in	S54	Philips	**492Y53**
Mercury Vapor	100 W	3900K	4,000 lm	20,000 hr	ED23-1/2	7 ½ in	H38	Current	**2V477**
High Pressure Sodium	150 W	2100K	16,000 lm	24,000 hr	ED23-1/2	7 ¾ in	S55	Philips	**492Y54**
Metal Halide	1,000 W	2100K	24,000 lm	24,000 hr	E25	3 ⁷⁄₃₂ in	—	Sylvania	**56GJ90**
145W MH/145W HPS Wattage Equivalency									
Metal Halide	145 W	4000K	13,775 lm	20,000 hr	ED28	8 ⅜ in	C192/O	Philips	**492Y79**
150W MH/150W HPS Wattage Equivalency									
High Pressure Sodium	150 W	2000K	16,000 lm	24,000 hr	ED23-1/2	7 ¾ in	S55	Current	**2VAD7**
Metal Halide	150 W	2100K	16,000 lm	30,000 hr	ET23.5	3 ⁷⁄₃₂ in	—	Sylvania	**56GJ85**
175W MH/175W HPS Wattage Equivalency									
LED	50 W	5000K	4,886 lm	50,000 hr	Cylindrical	7 ⅞ in	—	Light Efficient Design	**45PC14**
	50 W	4200K	4,341 lm	50,000 hr	Cylindrical	7 ⅞ in	—	Light Efficient Design	**45PC37**
Metal Halide	175 W	4000K	14,700 lm	10,000 hr	ED28	8 ¼ in	M57/E	Philips	**492Y80**
	175 W	4000K	13,600 lm	10,000 hr	ED28	8 ¼ in	M57	Current	**4V550**
	175 W	3900K	12,900 lm	10,000 hr	ED28	8 ¼ in	M57	Current	**5V691**
	175 W	4200K	17,500 lm	15,000 hr	ED23-1/2	7 ½ in	M137/M152	Current	**1E686**
	175 W	4000K	14,400 lm	7,500 hr	ED28	3 ⅝ in	—	Sylvania	**56GK73**
200W MH/200W HPS Wattage Equivalency									
High Pressure Sodium	200 W	2100K	22,000 lm	24,000 hr	ED18	9 ¾ in	S66	Current	**3APT4**
250W MH/250W HPS Wattage Equivalency									
High Pressure Sodium	250 W	2100K	28,000 lm	24,000 hr	ED18	9 ¾ in	S50	Current	**3APT5**
	250 W	2100K	28,500 lm	24,000 hr	ED18	9 ¾ in	S50	Philips	**492Y49**
	250 W	2100K	29,000 lm	24,000 hr	T14.5	9 ¾ in	—	Sylvania	**56GJ83**
Mercury Vapor	250 W	3900K	11,200 lm	20,000 hr	ED28	8 ¼ in	H37	Current	**2V449**
Metal Halide	250 W	4000K	21,250 lm	10,000 hr	ED28	8 ⁵⁄₁₆ in	M58/E	Philips	**492Y81**
	250 W	4200K	20,800 lm	10,000 hr	ED28	8 ¼ in	M58	Current	**2V712**
	250 W	3900K	13,000 lm	10,000 hr	ED28	8 ¼ in	M58	Current	**4V561**
	250 W	3900K	22,400 lm	15,000 hr	ED28	8 ¼ in	M138/M153	Current	**5GTN0**
	250 W	4000K	19,500 lm	7,500 hr	ED28	3 ⅝ in	—	Sylvania	**56GK68**
320W MH/320W HPS Wattage Equivalency									
Metal Halide	320 W	4100K	30,000 lm	20,000 hr	ED28	1 in	M154/M132/E	Philips	**492Y59**
	320 W	4000K	31,000 lm	20,000 hr	ED28	8 ¼ in	M132	Current	**4WW54**
400W MH/400W HPS Wattage Equivalency									
High Pressure Sodium	400 W	2100K	51,000 lm	24,000 hr	ED18	9 ¾ in	S51	Current	**3APT6**
	400 W	2100K	50,000 lm	24,000 hr	ED18	9 ¾ in	S51	Philips	**492Y50**
	400 W	2100K	50,000 lm	40,000 hr	ED18	9 ¾ in	S51	Philips	**492Y51**
	400 W	2100K	50,000 lm	30,000 hr	ED18	9 ¾ in	S51	Philips	**492Y52**
Mercury Vapor	400 W	5700K	21,000 lm	20,000 hr	ED37	11 ⅜ in	H33	Current	**4V519**
	400 W	3900K	22,600 lm	20,000 hr	ED37	11 ⅜ in	H33	Current	**2V358**
Metal Halide	400 W	4000K	40,000 lm	20,000 hr	ED28	1 in	M155/M128/M135/E	Philips	**492Y60**
	400 W	4100K	38,000 lm	20,000 hr	ED28	8 ⅜ in	M135/M155	Current	**3APK3**
	400 W	4000K	40,000 lm	20,000 hr	ED37	1 in	M155/M128/M135/E	Philips	**492Y62**
	400 W	4000K	36,000 lm	20,000 hr	ED28	8 ⁵⁄₁₆ in	M59/E	Philips	**492Y70**
	400 W	4000K	39,000 lm	20,000 hr	ED37	11 ½ in	M59/E	Philips	**492Y82**
	400 W	4000K	36,000 lm	20,000 hr	ED37	11 ½ in	M59	Current	**2V658**
	400 W	3700K	35,000 lm	20,000 hr	ED37	11 ½ in	M59	Current	**4V603**
	400 W	4000K	36,000 lm	20,000 hr	ED37	11 ½ in	M135/M155	Current	**5GTN1**
	400 W	4000K	36,000 lm	20,000 hr	ED28	8 ¼ in	M59	Current	**5V658**
	400 W	4000K	44,000 lm	20,000 hr	ED28	8 ¼ in	M135/M155	Current	**6XV24**
	400 W	2100K	30,000 lm	30,000 hr	ET18	2 ³⁄₆₄ in	—	Sylvania	**56GK15**
	400 W	4000K	32,000 lm	15,000 hr	ED28	3 ⅝ in	—	Sylvania	**56GK56**
	400 W	4000K	32,000 lm	15,000 hr	ED37	4 ¾ in	—	Sylvania	**56GK67**
1000W MH/1000W HPS Wattage Equivalency									
Compact Fluorescent	1000W	4000K	110,000 lm	9000 hr	BT37	11 ½ in	—	Sylvania	**56GK62**
High Pressure Sodium	1,000 W	2100K	130,000 lm	24,000 hr	ED25	15 in	S52	Current	**2V754**
	1,000 W	2100K	135,000 lm	24,000 hr	ED25	15 in	S52	Philips	**492Y48**
Metal Halide	1,000 W	4000K	110,000 lm	12,000 hr	BT37	11 ½ in	M47/E	Philips	**492Y57**
	1,000 W	4000K	110,000 lm	12,000 hr	BT56	13 ¼ in	M47/E	Philips	**492Y71**
	1,000 W	4000K	108,000 lm	15,000 hr	BT56	15 ⅜ in	M47	Current	**2V659**
	1,000 W	3700K	115,000 lm	12,000 hr	BT37	11 ½ in	M47	Current	**3JK41**
	1,000 W	4000K	120,000 lm	15,000 hr	BT37	11 ½ in	M141/E	Philips	**492Y58**
	1,000 W	4000K	110,000 lm	12,000 hr	BT56	15 ⅖ in	—	Sylvania	**56GK51**
1500W MH/1500W HPS Wattage Equivalency									
Metal Halide	1,500 W	4000K	170,000 lm	6,000 hr	BT56	13 ¼ in	M48/E	Philips	**492Y73**
	1,500 W	4000K	170,000 lm	3,000 hr	BT56	15 ⅜ in	M48	Current	**4V484**
	1,500 W	4000K	170,000 lm	3,000 hr	BT56	6 in	—	Sylvania	**56GK23**

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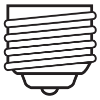
E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs

The most commonly used type of light bulb base, an E26 medium screw base has a 26mm dia. and screws into a compatible socket. E26 medium screw-base HID and LED HID-replacement bulbs are commonly used in post tops and bollards.



Medium Screw (E26) Base

61KJ47

492Y38

492Y64

508G20

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Bulb UL Type	Voltage	Overall Length	ANSI Code	Brand	Item No.
E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs											
35W MH/35W HPS Wattage Equivalency											
Metal Halide	35 W	3000K	2,000 lm	15,000 hr	PAR20	No UL Type	—	2 ½ in	C130/O	Philips	**492Y38**
39W MH/39W HPS Wattage Equivalency											
Metal Halide	39 W	3000K	2,400 lm	10,000 hr	PAR30L	No UL Type	280V Open Circuit(Peak Lead Ballast), 198V (RMS Lag Ballast)	4 ¾ in	M130	Current	**5XP47**
50W MH/50W HPS Wattage Equivalency											
LED	11 W	3000K, 4000K, 5000K	1,550 lm; 1610 lm; 1650 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	6 ⅝ in	—	Light Efficient Design	**60TD96**
High Pressure Sodium	50 W	2100K	4,000 lm	24,000 hr	BD17	No UL Type	—	5 ⅛ in	S68	Philips	**492Y46**
Metal Halide	50 W	3000K	4,800 lm	16,000 hr	ED17P	No UL Type	—	5 ½ in	M148/M110/O	Philips	**492Y77**
	50 W	3500K	3,200 lm	10,000 hr	ED17	No UL Type	—	5 ½ in	M110	Current	**6XT91**
	50 W	3700K	3,200 lm	10,000 hr	BD17	No UL Type	—	5 ½ in	M110	Current	**1F398**
	50 W	4200K	5,000 lm	20,000 hr	ED17	No UL Type	—	5 ½ in	M148/M110/E	Philips	**492Y56**
70W MH/70W HPS Wattage Equivalency											
LED	14 W	3000K, 4000K, 5000K	1,850 lm; 1950 lm; 1990 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	5 ¼ in	—	Light Efficient Design	**60TD97**
	21 W	4000K	3,000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ½ in	—	Current	**472Z16**
	21 W	5000K	3,000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ½ in	—	Current	**472Z17**
	35 W	4000K	5,000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ½ in	—	Current	**472Z18**
	35 W	5000K	5,000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ½ in	—	Current	**472Z19**
	45 W	3000K	4,800 lm	50,000 hr	T160	No UL Type	120 to 277 V AC	10 ½ in	—	Philips	**55GY66**
	45 W	4000K	4,800 lm	50,000 hr	T160	No UL Type	120 to 277 V AC	10 ½ in	—	Philips	**55GY67**
	45 W	5000K	4,800 lm	50,000 hr	T160	No UL Type	120 to 277 V AC	10 ½ in	—	Philips	**55GY65**
High Pressure Sodium	70 W	1900K	6,400 lm	24,000 hr	ED17	No UL Type	110	5 ½ in	S62	Current	**2V632**
	70 W	2100K	6,500 lm	24,000 hr	BD17	No UL Type	—	5 ⅛ in	S62	Philips	**492Y47**
Metal Halide	70 W	1900K	24,000 lm	24,000 hr	E17	—	—	2 35/64 in	—	Sylvania	**56GJ89**
	70 W	3000K	7,700 lm	16,000 hr	BD17	No UL Type	—	1 in	M143/M98/E	Philips	**492Y69**
	70 W	3000K	6,700 lm	16,000 hr	ED17P	No UL Type	—	5 ½ in	M143/M98/O	Philips	**492Y78**
	70 W	3000K	5,200 lm	10,000 hr	E17	—	—	2 35/64 in	—	Sylvania	**56GK02**
	70 W	3200K	5,500 lm	15,000 hr	ED17	No UL Type	—	5 ½ in	M98	Current	**2F942**
	70 W	3500K	5,500 lm	12,000 hr	BD17	No UL Type	—	5 ½ in	M98	Current	**6V746**
	70 W	4000K	5,500 lm	12,000 hr	BD17	No UL Type	85	5 ½ in	M98	Current	**1E694**
	70 W	4000K	5,600 lm	12,000 hr	ED17	—	—	2 35/64 in	—	Sylvania	**56GK18**
100W MH/100W HPS Wattage Equivalency											
LED	14 W	3000K	1,792 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR07**
	14 W	4000K	1,918 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR08**
	14 W	5000K	1,960 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR09**
	18 W	3000K, 4000K, 5000K	2,450 lm; 2560 lm; 2610 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	6 ⅝ in	—	Light Efficient Design	**60TD98**
	18 W, 24 W, 2 W	3000K, 4000K, 5000K	1550 lm, 3360 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	6 ⅝ in	—	Light Efficient Design	**788VX2**
	27 W	3000K	3,900 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	8 ⅛ in	—	Keystone Technologies	**61CZ87**
	27 W	4000K	4,000 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	8 ⅛ in	—	Keystone Technologies	**61CZ88**
	27 W	5000K	4,100 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	8 ⅛ in	—	Keystone Technologies	**61CZ89**
	30 W	3000K, 4000K, 5000K	3500 lm, 4200 lm, 4300 lm	50,000 hr	Cylindrical	—	120 to 277 V AC	6 ⅜ in	—	Light Efficient Design	**792VA3**
	50 W	4000K	7,500 lm	50,000 hr	ED23.5	Type B	120 to 277 V AC	7 ¾ in	—	Current	**429U43**
High Pressure Sodium	100 W	2000K	9,500 lm	24,000 hr	ED17	No UL Type	—	5 ½ in	S54	Current	**4V604**
	100 W	2100K	9,200 lm	24,000 hr	BD17	No UL Type	—	5 ⅛ in	S54	Philips	**492Y44**
Metal Halide	100 W	3000K	11,000 lm	16,000 hr	ED17	No UL Type	—	5 ½ in	C90/E	Philips	**492Y64**
	100 W	3000K	10,000 lm	16,000 hr	ED17P	No UL Type	—	5 ½ in	C90/O	Philips	**492Y74**
	100 W	3000K	8,500 lm	10,000 hr	E17	—	—	2 35/64 in	—	Sylvania	**56GK29**
	100 W	3200K	9,000 lm	15,000 hr	ED17	No UL Type	—	5 ½ in	M90	Current	**2F944**
	100 W	3200K	9,000 lm	15,000 hr	ED17	No UL Type	—	5 ½ in	M90	Current	**6V749**
	100 W	4000K	8,100 lm	15,000 hr	BD17	No UL Type	100	5 ½ in	M90	Current	**1E674**
	100 W	4000K	9,000 lm	15,000 hr	BD17	No UL Type	—	5 13/32 in	M90/E	Philips	**492Y63**
	100 W	4000K	8,500 lm	12,000 hr	ED17	—	—	2 35/64 in	—	Sylvania	**56GJ97**
150W MH/150W HPS Wattage Equivalency											
LED	20 W	3000K	2,540 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR10**
	20 W	4000K	2,720 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR11**
	20 W	5000K	2,760 lm	25,000 hr	A21	Type B	120 to 277 V AC	5 ⅜ in	—	Light Efficient Design	**55VR12**
	24 W	5700K	3,425 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	6 ¾ in	—	Light Efficient Design	**508G20**
	25 W	3000K	3,375 lm	25,000 hr	A23	Type B	120 to 277 V AC	6 ⅜ in	—	Light Efficient Design	**55VR13**
	25 W	4000K	3,525 lm	25,000 hr	A23	Type B	120 to 277 V AC	6 ⅜ in	—	Light Efficient Design	**55VR14**
	25 W	5000K	3,575 lm	25,000 hr	A23	Type B	120 to 277 V AC	6 ⅜ in	—	Light Efficient Design	**55VR15**
	30 W	2700K	2,500 lm	50,000 hr	PAR	—	120 to 277 V AC	4 ¾ in	—	Light Efficient Design	**61KJ48**
	30 W	3500K	3,000 lm	50,000 hr	PAR	—	120 to 277 V AC	4 ¾ in	—	Light Efficient Design	**61KJ50**
	30 W	4000K	3,000 lm	50,000 hr	PAR	—	120 to 277 V AC	4 ¾ in	—	Light Efficient Design	**61KJ49**
	30 W	5000K	3,000 lm	50,000 hr	PAR	Type B	120 to 277 V AC	4 ¾ in	—	Light Efficient Design	**61KJ47**
	36 W	3000K, 4000K, 5000K	2,430 lm, 2,520 lm, 2,610 lm, 3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	7 ⅞ in	—	Keystone Technologies	**61DA07**

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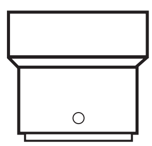
E26 Medium Screw-Base HID & LED HID-Replacement Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Bulb UL Type	Voltage	Overall Length	ANSI Code	Brand	Item No.
High Pressure Sodium	150 W	2000K	16,000 lm	24,000 hr	ED17	No UL Type	—	5 ¾ in	S55	Current	**2V713**
	150 W	2100K	16,000 lm	24,000 hr	BD17	No UL Type	—	5 ⅛ in	S55	Philips	**492Y45**
Metal Halide	150 W	2100K	15,800 lm	24,000 hr	E17	—	—	2 35⁄64 in	—	Sylvania	**56GJ79**
	150 W	2900K	12,900 lm	10,000 hr	ED17P	No UL Type	—	1 in	M142/M102/O	Philips	**492Y76**
	150 W	3400K	13,300 lm	15,000 hr	BD17	No UL Type	—	5 ½ in	M102	Current	**1G980**
	150 W	3500K	12,500 lm	15,000 hr	ED17	No UL Type	—	5 ½ in	C102/M102	Current	**6XT93**
	150 W	4000K	13,000 lm	20,000 hr	ED17	No UL Type	—	5 ½ in	M142/M102/E	Philips	**492Y66**
	150 W	4000K	12,900 lm	12,000 hr	ED17	—	—	2 35⁄64 in	—	Sylvania	**56GK07**
	150 W	4300K	14,000 lm	15,000 hr	BD17	No UL Type	—	5 ½ in	M102	Current	**1E690**
175W MH/175W HPS Wattage Equivalency											
LED	35 W	4000K	5,290 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	7 ¼ in	—	Light Efficient Design	**60TD91**
	35 W	5000K	5,360 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	7 ¼ in	—	Light Efficient Design	**60TD92**
	35 W, 45 W, 60 W	3000K, 4000K, 5000K	5,290 lm, 6,510 lm, 8,790 lm	50,000 hr	Cylindrical	Type B	120 to 277 V AC	7 ¼ in	—	Light Efficient Design	**60TD81**
	45 W	3000K, 4000K, 5000K	3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm, 6,075 lm, 6,300 lm, 6,525 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	9 ⅛ in	—	Keystone Technologies	**61DA09**
	45 W	4000K	5,334 lm	50,000 hr	High/Low Bay	Type B	120 to 277 V AC	5 ¾ in	—	Light Efficient Design	**60RF17**
	45 W	4000K	6,300 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	9 ¼ in	—	Keystone Technologies	**61CZ94**
	45 W	5000K	6,400 lm	50,000 hr	HID	No UL Type	120 to 277 V AC	9 ¼ in	—	Keystone Technologies	**61CZ95**
	50 W	3000K, 4000K, 5000K	6400 lm, 6900 lm, 7200 lm	50,000 hr	Cylindrical	—	120 to 277 V AC	7 ⅞ in	—	Light Efficient Design	**792VA5**
	60 W	4000K	6,684 lm	50,000 hr	High/Low Bay	Type B	120 to 277 V AC	6 ⅛ in	—	Light Efficient Design	**55VR23**
	60 W	5700K	7,062 lm	50,000 hr	High/Low Bay	Type B	120 to 277 V AC	6 ⅛ in	—	Light Efficient Design	**55VR24**
	80 W	4000K	12,000 lm	50,000 hr	ED37	Type B	120 to 277 V AC	7 ¾ in	—	Current	**429U44**
Metal Halide	175 W	4000K	14,000 lm	10,000 hr	BD17	No UL Type	—	5 ½ in	M57/E	Philips	**492Y67**
	175 W	4000K	14,400 lm	7,500 hr	E17	—	—	2 35⁄64 in	—	Sylvania	**56GK66**
	175 W	4000K	13,600 lm	10,000 hr	BD17	No UL Type	—	5 ¾ in	M57	Current	**6V751**
Hazardous Location LED HID-Replacement Light Bulbs											
50W MH/50W HPS Wattage Equivalency											
LED	21 W	3000K	3000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM18**
	21 W	4000K	3000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM19**
70W MH/70W HPS Wattage Equivalency											
LED	35 W	3000K	5000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM21**
	35 W	4000K	5000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM22**
	35 W	5000K	5000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM23**
100W MH/100W HPS Wattage Equivalency											
LED	45 W	3000K	6000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM24**
	45 W	4000K	6000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM25**
	45 W	5000K	6000 lm	50,000 hr	ED17	Type B	120 to 277 V AC	5 ⅖ in	—	Current	**61JM26**
Shatter-Resistant HID Light Bulbs											
50W MH/50W HPS Wattage Equivalency											
LED	18 W	4000K	2,400 lm	50,000 hr	Cylindrical	Type B	—	5 ¾ in	—	Philips	**60EE86**
	18 W	5000K	2,500 lm	50,000 hr	Cylindrical	Type B	—	5 ¾ in	—	Philips	**60EE87**
70W MH/70W HPS Wattage Equivalency											
LED	18 W	3000K	2,300 lm	50,000 hr	Corn Cob	—	100 to 277 V AC	5 ¾ in	—	Philips	**56LX06**
	20 W	2900K	2,900 lm	50,000 hr	Cylindrical	Type B	—	5 ⅜ in	—	Philips	**60EE88**
	20 W	3000K	2,800 lm	50,000 hr	Corn Cob	Type B	100 to 277 V AC	5 ⅜ in	—	Philips	**56LX15**
	20 W	3000K	3,000 lm	50,000 hr	Cylindrical	Type B	—	5 ⅜ in	—	Philips	**60EE89**
	27 W	4000K	3,700 lm	50,000 hr	Cylindrical	Type B	—	6 ⅛ in	—	Philips	**60EE70**
	27 W	5000K	3,800 lm	50,000 hr	Cylindrical	Type B	—	6 ⅛ in	—	Philips	**60EE90**
100W MH/100W HPS Wattage Equivalency											
LED	27 W	3000K	3,500 lm	50,000 hr	Corn Cob	Type B	100 to 277 V AC	6 ¾ in	—	Philips	**56LX08**
	36 W	3000K	5,000 lm	50,000 hr	Corn Cob	Type B	100 to 277 V AC	8 in	—	Philips	**56LX10**
150W MH/150W HPS Wattage Equivalency											
LED	36 W	4000K	5,200 lm	50,000 hr	Cylindrical	Type B	—	8 in	—	Philips	**60EE71**
	36 W	5000K	5,400 lm	50,000 hr	Cylindrical	Type B	—	8 in	—	Philips	**60EE92**

55VR26



Bayonet Base (B22d) Base

Light Efficient Design

B22d Bayonet-Base LED HID-Replacement Light Bulbs

The B22d bayonet base on these light bulbs is a 22mm-dia. base with two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted. These LED bulbs replace low-pressure sodium (LPS or SOX) HID bulbs in outdoor light fixtures.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Base Type	Overall Length	Item No.
B22d Bayonet-Base HID & LED HID-Replacement Light Bulbs								
35W LPS SOX Wattage Equivalency								
LED	20 W	2200K	2,030 lm	50,000 hr	T17	Bayonet Base (B22d)	12 ¼ in	**55VR26**
	20 W	4000K	3,022 lm	50,000 hr	T17	Bayonet Base (B22d)	12 ¼ in	**55VR27**
55W LPS SOX Wattage Equivalency								
LED	35 W	2200K	3,232 lm	50,000 hr	T17	Bayonet Base (B22d)	16 ¾ in	**55VR28**
	35 W	4000K	5,156 lm	50,000 hr	T17	Bayonet Base (B22d)	16 ¾ in	**55VR29**
90W LPS SOX Wattage Equivalency								
LED	60 W	2200K	5,769 lm	50,000 hr	T17	Bayonet Base (B22d)	20 ½ in	**55VR30**
	60 W	4000K	8,198 lm	50,000 hr	T17	Bayonet Base (B22d)	20 ½ in	**55VR31**
180W LPS SOX Wattage Equivalency								
LED	100 W	2200K	11,576 lm	50,000 hr	T17	Bayonet Base (B22d)	43 ½ in	**55VR32**
	100 W	4000K	15,472 lm	50,000 hr	T17	Bayonet Base (B22d)	43 ½ in	**55VR33**

PHILIPS Current SYLVANIA

G12 2-Pin Base HID Light Bulbs

The G12 base on these light bulbs has two pins that are 12mm apart. Compact G12 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	ANSI Code	Brand	Item No.
G12 2-Pin Base HID Light Bulbs									
35W MH Wattage Equivalency									
Metal Halide	35 W	3000K	3,300 lm	12,000 hr	T6	1 in	C130/E	Philips	**492Y41**
39W MH Wattage Equivalency									
Metal Halide	39 W	3000K	3,400 lm	15,000 hr	T4-1/2	3 ½ in	M130	Current	**5HB79**
	39 W	3000K	3,400 lm	15,000 hr	T6	1 21⁄32 in	—	Sylvania	**56GJ80**
70W MH/70W HPS Wattage Equivalency									
Compact Fluorescent	70W	3000K	7400 lm	15,000 hr	T6	1 21⁄32 in	—	Sylvania	**56GJ93**
70W MH Wattage Equivalency									
Metal Halide	70 W	3000K	6,200 lm	15,000 hr	T6	3 ½ in	M139/ M85/M98	Current	**5HB80**
	70 W	3000K	6,600 lm	12,000 hr	T6	3 ⅞ in	C139/E	Philips	**492Y43**
150W MH Wattage Equivalency									
Metal Halide	150 W	3000K	13,000 lm	12,000 hr	T6	1 in	C142/E	Philips	**492Y42**

492Y41

Current PHILIPS

G8.5 2-Pin Base HID Light Bulbs

The G8.5 base on these light bulbs has two pins that are 8.5mm apart. Compact G8.5 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	ANSI Code	Brand	Item No.
G8.5 2-Pin Base HID Light Bulbs									
20W MH Wattage Equivalency									
Ceramic Metal Halide	20 W	3000K	1,650 lm	12,000 hr	T4-1/2	3 ⅜ in	M156	Current	**1RD93**
35W MH Wattage Equivalency									
Metal Halide	35 W	3000K	3,300 lm	12,000 hr	T4	1 in	C130/E	Philips	**492Y40**
39W MH Wattage Equivalency									
Metal Halide	39 W	3000K	3,400 lm	16,500 hr	T4-1/2	3 ⅜ in	M130	Current	**4DA27**
70W MH Wattage Equivalency									
Metal Halide	70 W	3000K	6,200 lm	15,000 hr	T4-1/2	3 ⅜ in	M139	Current	**2DZX8**

492Y40

2DZX8

Current PHILIPS SYLVANIA

GU6.5 2-Pin Base HID Light Bulbs

The GU6.5 base on these light bulbs has two pins that are 6.5mm apart. Compact GU6.5 2-pin base HID light bulbs are used for highlighting merchandise in retail stores.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Overall Length	ANSI Code	Brand	Item No.
GU6.5 2-Pin Base HID Light Bulbs									
20W MH Wattage Equivalency									
Ceramic Metal Halide	20 W	3000K	1,615 lm	12,000 hr	T4	2 ⅛ in	C156/M156	Current	**1TJR6**
Metal Halide	20 W	3000K	1,800 lm	20,000 hr	T4	2 ½ in	C156/E	Philips	**492Y39**
	20 W	3000K	1,700 lm	15,000 hr	T4	1 21⁄32 in	—	Sylvania	**56GJ92**
39W MH Wattage Equivalency									
Metal Halide	39 W	3000K	3,400 lm	10,000 hr	T4	2 ⅛ in	C130/M130	Current	**3DXR7**

1TJR6

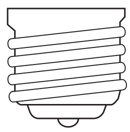
492Y39

shat-r-shield INC. The Protective Lighting Company

Shatter-Resistant HID Light Bulbs

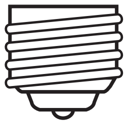
A surface coating keeps broken glass, mercury, and phosphors contained if the bulbs burst or break, which prevents these harmful contaminants from spreading into the surrounding area. Shatter-resistant HID light bulbs are used in manufacturing plants, food-processing facilities, and other settings where product contamination must be avoided. They are also used in areas where they may be exposed to shaking or impacts.

Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Base Type	Overall Length	ANSI Code	Item No.
Shatter-Resistant HID Light Bulbs									
250W MH Wattage Equivalency									
Metal Halide	250 W	4000K	21,000 lm	10,000 hr	ED28	Mogul Screw (E39)	8 ¼ in	M58	**40HX08**
400W MH Wattage Equivalency									
Metal Halide	400 W	3600K	40,000 lm	20,000 hr	BT37	Mogul Screw (EX39)	11 ½ in	M59/O	**9UCM7**



Mogul Screw (E39) Base

40HX08



Medium Screw (E26) Base

A15 40HW98

492Y85

55XC76

A19 60NP94

General Purpose E26 Medium Screw-Base Light Bulbs

These standard light bulbs screw into an E26 socket in fixtures such as table lamps, recessed can lights, and track lights. They have a E26 medium screw base, which is the most commonly used base type for standard light bulbs.

Light Technology	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
General Purpose E26 Medium Screw-Base Light Bulbs											
10-15W INC Wattage Equivalency											
LED	2 W	2700K	160 lm	—	No	50,000 hr	A15	3 ¾ in	maxLED	**40HW98**	1
25W INC Wattage Equivalency											
Incandescent	25W	2450K	235 lm	White	Yes	3,000 hr	A19	4 ½ in	Philips	**492Z73**	2
	25W	2500K	248 lm	Clear	Yes	1,000 hr	T10	5 ⅝ in	Current	**4V461**	1
	25W	2800K	250 lm	Clear	No	1,000 hr	T10	1 ¾ in	Philips	**493A06**	1
	25W	2800K	244 lm	Frosted	Yes	1,000 hr	T10	5 ⅝ in	LumaPro	**4RZX4**	1
	25 W	2850K	230 lm	Clear	Not Applicable	1,000 hr	T10	5 ⅝ in	Sylvania	**60UA49**	1
	25.2W	2800K	248 lm	Clear	Yes	1,000 hr	T10	5 ⅝ in	LumaPro	**4RZV6**	1
30/70/100W INC Wattage Equivalency											
LED	13 W	2700K	1,400 lm, 400 lm, 840 lm	—	No	15,000 hr	A21	5 ⅜ in	Current	**55XC75**	1
Incandescent	30/100W	2700K	300/960/1260 lm	White	Yes	1,750 hr	A21	5 ⅜ in	Philips	**492Z75**	1
40W INC/9 to 11W CFL Wattage Equivalency											
LED	4.5 W	2000K	300 lm	—	Yes	15,000 hr	A19	4 ¼ in	Philips	**55YD42**	1
	4.5 W	2700K	470 lm	—	Yes	15,000 hr	A15	3 ⅜ in	Shat-R-Shield	**55VR81**	1
	5 W	2700K	450 lm	—	Yes	15,000 hr	A15	3 ⅜ in	Feit Electric	**56JH28**	2
	5 W	2700K	450 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N92**	1
	5 W	3000K	450 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH67**	4
	5 W	3000K	450 lm	Clear	Yes	15,000 hr	A15	3 ¼ in	Feit Electric	**793RA3**	2
	5 W	3000K	450 lm	Clear	Yes	15,000 hr	A15	3 ¼ in	Feit Electric	**793RA9**	2
	5 W	5000K	450 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N93**	1
	5.5 W	2700K	450 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**459V14**	2
	5.5 W	2700K	450 lm	Frosted	No	15,000 hr	A19	4 ½ in	Current	**49ZC12**	3
	5.5 W	5000K	450 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**482P32**	4
	5.5 W	5000K	450 lm	Frosted	No	15,000 hr	A19	4 ½ in	Current	**49ZC13**	3
	6 W	2700K	450 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**482P31**	4
	6 W	2700K	480 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**53CE33**	1
	6 W	3000K	480 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**53CE34**	1
	6 W	5000K	480 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**53CE35**	1
	6 W	5000K	450 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH68**	4
Compact Fluorescent	9 W	2700K	550 lm	—	No	10,000 hr	T2	3 ⅜ in	Philips	**492Y85**	4
	11 W	2700K	580 lm	—	No	10,000 hr	A19	4 in	Aero-Tech	**23MD08**	1
	11 W	5000K	545 lm	—	No	15,000 hr	A19	3 ¾ in	Aero-Tech	**23MD12**	1
Halogen	29 W	2810K	380 lm	Clear	Yes	2,000 hr	A19	4 ⅛ in	Philips	**492Z66**	4
	29 W	2950K	380 lm	Clear	Yes	1,000 hr	A19	4 ⅛ in	Shat-R-Shield	**21GP87**	1
Incandescent	40W	2300K	320 lm	Frosted	Yes	3,500 hr	A19	4 ⅜ in	Philips	**492Z72**	1
	40W	2700K	250 lm	Clear	No	1,000 hr	T10	5 ½ in	Philips	**493A07**	1
	40W	2800K	250 lm	Clear	No	1,000 hr	T10	5 ½ in	Philips	**493A08**	1
	40W	2800K	420 lm	Clear	Yes	1,000 hr	T10	5 ⅝ in	LumaPro	**4RZV7**	1
	40W	2800K	415 lm	Frosted	Yes	1,000 hr	T10	5 ⅝ in	LumaPro	**4RZX6**	1
	40 W	2700K	405 lm	Frosted	Yes	3,500 hr	A15	3 ½ in	Shat-R-Shield	**60TZ12**	2
	40 W	2850K	415 lm	Inside Frost	Not Applicable	1,000 hr	A15	3 ½ in	Sylvania	**60UA71**	1
	40 W	2850K	415 lm	Clear	Not Applicable	1,000 hr	A15	3 ½ in	Sylvania	**60UA23**	1
LED	40 W	3000K	450 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND2**	1
	40 W	3000K	450 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND3**	1
50/100/150W INC Wattage Equivalency											
LED	19 W	2700K	1,300 lm, 2,155 lm, 650 lm	—	No	15,000 hr	A21	5 ⅜ in	Current	**55XC76**	1
Incandescent	50/100/150W	2775K	465 lm	White	Yes	1,750 hr	A21	4 ⅜ in	Philips	**492Z76**	1
50W INC Wattage Equivalency											
Incandescent	50W	2700K	545 lm	Frosted	Yes	1,000 hr	A19	3 ⅞ in	Current	**5V310**	1
60W INC/13 to 15W CFL Wattage Equivalency											
LED	5 W	6500K	500 lm	Frosted	No	20,000 hr	A15	3 ½ in	Miracle Led	**655Y04**	2
	8 W	2700K	750 lm	—	Yes	15,000 hr	A15	3 ⅜ in	Feit Electric	**56JH31**	2
	8 W	2700K	800 lm	Frosted	Yes	15,000 hr	A19	3 ¾ in	Sylvania	**60UA68**	1
	8.5 W	2700K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N94**	1
	8.5 W	5000K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N95**	1
	8.50 W	2700K	800 lm	Frosted	No	10,000 hr	A19	4 ⅜ in	Sylvania	**60UA12**	1
	8.8 W	2700K	800 lm	Frosted	Yes	15,000 hr	A19	4 ¼ in	Philips	**54YP52**	1
	8.8 W	2700K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N88**	1
	8.8 W	3000K	800 lm	Frosted	Yes	15,000 hr	A19	4 ¼ in	Philips	**54YP51**	1
	8.8 W	3000K	800 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH69**	4
	8.8 W	3000K	800 lm	Clear	Yes	25,000 hr	A19	45 in	Feit Electric	**793RC0**	1
	8.8 W	5000K	800 lm	Frosted	Yes	15,000 hr	A19	4 ⅜ in	Philips	**54YP53**	1
	8.8 W	5000K	800 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH70**	4
	8.8 W	5000K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N89**	1
	8.8 W	5000K	800 lm	—	Yes	15,000 hr	A19	4 in	Feit Electric	**793RC1**	4
	9 W	2700K	800 lm	Frosted	No	15,000 hr	A19	4 ½ in	Current	**49ZC14**	3
	9 W	5000K	800 lm	Frosted	No	15,000 hr	A19	4 ½ in	Current	**49ZC15**	3
	10 W	2700K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**53CE36**	1
	10 W	4000K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**407J24**	1
	10 W	5000K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**482P34**	4
	10 W	5000K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**53CE39**	1
	10.5 W	2700K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**459V13**	2
	10.5 W	2700K	800 lm	Frosted	Yes	15,000 hr	A19	4 ½ in	Current	**482P33**	4
Compact Fluorescent	13 W	2700K	900 lm	—	No	12,000 hr	T2	4 3⁄32 in	Philips	**492Y88**	4
	13 W	2700K	900 lm	—	No	10,000 hr	T2	4 ⅛ in	Philips	**492Y92**	1
	13 W	4100K	900 lm	—	No	10,000 hr	T2	4 ⅛ in	Philips	**492Y93**	1
	13 W	6500K	860 lm	—	No	10,000 hr	T2	4 3⁄32 in	Philips	**492Y89**	4
	14 W	5000K	800 lm	—	No	15,000 hr	A19	4 ¼ in	Aero-Tech	**23MD13**	1

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MaxLite PHILIPS Current LumaPro shat-r-shield FEIT Electric AERO-TECH MiracleLED SYLVANIA EiKO

General Purpose E26 Medium Screw-Base Light Bulbs

Light Technology	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
Halogen	43 W	2920K	750 lm	Clear	Yes	2,000 hr	A19	4 ⅛ in	Philips	**492Z30**	2
	43 W	2920K	750 lm	Clear	Yes	1,000 hr	A19	4 ⅛ in	Shat-R-Shield	**21GP88**	1
	53 W	2840K	790 lm	Clear	Yes	2,000 hr	A19	4 ¼ in	Philips	**492Z31**	4
Incandescent	60W	2800K	420 lm	Clear	Yes	1,000 hr	T10	5 ⅝ in	LumaPro	**4RZX7**	1
LED	60 W	3000K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND4**	1
	60 W	3000K	800 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND5**	1
75W INC/18 to 20W CFL Wattage Equivalency											
LED	10 W	2700K	1,000 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784N96**	1
	10 W	5000K	1,000 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**788UR1**	1
	12 W	2700K	1,100 lm	Frosted	No	15,000 hr	A19	5 ¼ in	Current	**49ZC16**	2
	12 W	2700K	1,100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP51**	1
	12 W	2700K	1100 lm	—	Yes	15,000 hr	A19	4 in	Feit Electric	**793RA5**	2
	12 W	3000K	1,100 lm	Frosted	Yes	25,000 hr	A21	5 ⅜ in	Current	**44ZV41**	1
	12 W	3000K	1,100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP52**	1
	12 W	5000K	1,100 lm	Frosted	Yes	25,000 hr	A21	5 ⅜ in	Current	**44ZV45**	1
	12 W	5000K	1,250 lm	Frosted	No	15,000 hr	A19	5 ¼ in	Current	**49ZC17**	2
	12 W	5000K	1,100 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP53**	1
	12.2 W	2700K	1,100 lm	Frosted	Yes	15,000 hr	A19	4 ⅜ in	Philips	**60NP94**	1
	12.2 W	3000K	1100 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH71**	2
	12.2 W	5000K	1100 lm	—	No	11,000 hr	A19	4 ½ in	Feit Electric	**56JH72**	2
	12.2 W	5000K	1,100 lm	Frosted	Yes	15,000 hr	A19	4 ⅜ in	Philips	**60NP95**	1
Compact Fluorescent	18 W	2700K	1,250 lm	—	No	10,000 hr	T2	⅛ in	Philips	**492Y87**	4
	20 W	5000K	1,100 lm	—	No	12,000 hr	A19	4 ¾ in	Aero-Tech	**23MD14**	1
Halogen	53 W	2950K	890 lm	Soft White	Yes	1,000 hr	A19	4 ½ in	Current	**13X831**	2
LED	75 W	3000K	1,100 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784ND6**	1
	75 W	3000K	1,000 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND7**	1
	100W	3000K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784ND8**	1
100W INC/23 to 26W CFL Wattage Equivalency											
LED	12 W	5000K	1,100 lm	Frosted	No	20,000 hr	A19	4 ½ in	Miracle Led	**655Y01**	2
	13.5W	3000K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅛ in	Philips	**784ND9**	1
	13.5 W	2700K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784N97**	1
	13.5 W	5000K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784N98**	1
	14 W	2700K	1,500 lm	Frosted	No	11,000 hr	A19	4 ¼ in	Sylvania	**60UA20**	1
	14 W	5000K	1,500 lm	Frosted	No	11,000 hr	A19	4 ¼ in	Sylvania	**60UA47**	1
	15 W	2700K	1,600 lm	Frosted	No	15,000 hr	A19	5 ¼ in	Current	**49ZC18**	2
	15 W	2700K	1,600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP54**	1
	15 W	2700K	1500 lm	—	Yes	15,000 hr	A21	5 ⅛ in	Feit Electric	**56JH32**	2
	15 W	3000K	1,600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP55**	1
	15 W	5000K	1,600 lm	Frosted	No	15,000 hr	Cylindrical	5 ¼ in	Current	**52XH97**	2
	15 W	5000K	1,600 lm	Frosted	Yes	15,000 hr	A21	5 ¼ in	Current	**53DP56**	1
	16 W	2700K	1,600 lm	Frosted	Yes	15,000 hr	A19	4 ⅜ in	Philips	**60NP97**	1
	16 W	5000K	1,600 lm	Frosted	Yes	15,000 hr	A19	4 ⅜ in	Philips	**60NP96**	1
	16.6 W	2700K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784N90**	1
	16.6 W	5000K	1,500 lm	Frosted	No	11,000 hr	A19	4 ⅝ in	Philips	**784N91**	1
	17.7 W	3000K	1600 lm	—	No	11,000 hr	A21	4 ½ in	Feit Electric	**56JH59**	2
	17.7 W	5000K	1600 lm	—	No	11,000 hr	A21	4 ½ in	Feit Electric	**56JH60**	2
Compact Fluorescent	23 W	2700K	1,600 lm	—	No	12,000 hr	T2	⅛ in	Philips	**492Y90**	4
	23 W	3000K	1,600 lm	—	No	10,000 hr	T2	4 ½ in	Sylvania	**60UA40**	1
	23 W	4100K	1,600 lm	—	No	10,000 hr	T2	4 ⅜ in	Philips	**492Y95**	1
	23 W	5000K	1,600 lm	—	No	10,000 hr	T2	4 ⅜ in	Philips	**492Y96**	1
	25 W	2700K	1,600 lm	—	No	10,000 hr	A19	5 in	Aero-Tech	**23MD11**	1
	26 W	4100K	1,800 lm	—	No	10,000 hr	T2	⅛ in	Philips	**492Y86**	1
Halogen	72 W	3000K	1490 lm	Clear	Yes	2,000 hr	A19	4 ⅛ in	Philips	**492Z32**	2
Incandescent	100W	2700K	1347 lm	Clear	Yes	1,000 hr	A21	4 ⅜ in	Philips	**493A36**	1
150W INC Wattage Equivalency											
LED	28 W	3000K	2605 lm	—	Yes	15,000 hr	A21	5 ½ in	Feit Electric	**56JH61**	1
	28 W	5000K	2605 lm	—	Yes	15,000 hr	A21	5 ½ in	Feit Electric	**56JH62**	1
	29 W	2700K	2,610 lm	Frosted	Yes	15,000 hr	A21	3 ½ in	Philips	**56LX01**	1
Incandescent	150W	2700K	2205 lm	Clear	Yes	1,000 hr	A21	5 ¾ in	Philips	**492Z92**	1
200W INC Wattage Equivalency											
LED	25 W	3000K	3050 lm	—	No	25,000 hr	A21	5 ¼ in	Feit Electric	**56JH63**	1
	25 W	5000K	3050 lm	—	No	25,000 hr	A21	5 ¼ in	Feit Electric	**56JH64**	1
Incandescent	200W	2800K	3780 lm	Clear	Yes	750 hr	A21	5 ⅜ in	Current	**6V137**	1
300W INC Wattage Equivalency											
LED	33 W	3000K	4060 lm	—	No	25,000 hr	A23	6 ½ in	Feit Electric	**56JH65**	1
	33 W	5000K	4060 lm	—	No	25,000 hr	A23	7 in	Feit Electric	**56JH66**	1
Incandescent	300W	2700K	6280 lm	Clear	Yes	750 hr	PS25	4 ½ in	Philips	**493A30**	1
500W INC Wattage Equivalency											
Incandescent	500W	3200K	13,650 lm	Frosted	Yes	60 hr	PS25	6 ⅛ in	Eiko	**6DZJ5**	1

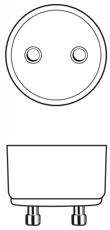
MaxLite PHILIPS Current

General Purpose GU24-Base Light Bulbs

The GU24 base on these light bulbs pushes into a GU24 socket and then twists slightly to lock it in place. General purpose GU24-base light bulbs are used in new construction projects, restaurants, hotels, and other residential or commercial facilities that are required to use energy-efficient LED bulbs.

Light Technology	Watts	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Pkg. Qty.	2700K Item No.	3000K Item No.	4000K Item No.
General Purpose GU24-Base Light Bulbs											
40W INC/9 to 11W CFL Wattage Equivalency											
LED	6 W	480 lm	Yes	25,000 hr	A19	4 ½ in	maxLED	1	**32MX42**	**32MX43**	**32MX44**
60W INC/13 to 15W CFL Wattage Equivalency											
LED	8.8 W	800 lm	Yes	15,000 hr	A19	4 ½ in	Philips	1	—	**55YD45**	—
	9 W	800 lm	Yes	25,000 hr	A19	4 ½ in	maxLED	1	**32MX45**	**32MX46**	**32MX47**
	10 W	800 lm	Yes	15,000 hr	A19	4 ⅜ in	Current	1	**55XC74**	—	—
75W INC/18 to 20W CFL Wattage Equivalency											
LED	11 W	1,100 lm	Yes	25,000 hr	A19	4 ½ in	maxLED	1	**32MX48**	**32MX49**	**32MX50**
100W INC/23 to 26W CFL Wattage Equivalency											
LED	15 W	1,600 lm	Yes	25,000 hr	A19	4 ¾ in	maxLED	1	**32ZN18**	**32ZN19**	**32ZN20**
	16 W	1,600 lm	Yes	15,000 hr	A21	5 ½ in	Philips	1	—	**55YD44**	—

A19
32MX42



2-Pin (GU24) Base

A19
20LP82

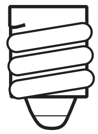
A23
55VR19

PS25
492Z93

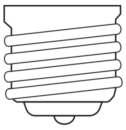
General Purpose E12 Candelabra and E39 Mogul Screw-Base Light Bulbs

E12 Candelabra Screw-Base Light Bulbs—Compact candelabra screw-base light bulbs fit into tight spaces in appliances, bath and vanity fixtures, and accent lighting fixtures. Their E12 screw base has a 12mm dia.

E39 Mogul Screw-Base Light Bulbs—Mogul screw-base light bulbs are used in large jobsite lights and other industrial fixtures. They have an E39 screw base with a 39mm dia.



Candelabra Screw (E12) Base



Mogul Screw (E39) Base

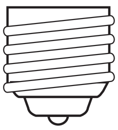
Light Technology	Watts	Color Temp.	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
General Purpose E12 Candelabra Screw-Base Light Bulbs										
40W INC/9 to 11W CFL Wattage Equivalency										
LED	3.3 W	3000K	300 lm	Yes	15,000 hr	E12	3 ⅞ in	Feit Electric	**793RA7**	4
Compact Fluorescent	11 W	2700K	580 lm	No	8,000 hr	A19	4 in	Aero-Tech	**20LP82**	1
60W INC/13 to 15W CFL Wattage Equivalency										
LED	5.5 W	3000K	500 lm	Yes	15,000 hr	E12	3 ⅞ in	Feit Electric	**793RA8**	4
	8.3 W	2700K	750 lm	Yes	15,000 hr	A15	3 ⅜ in	Feit Electric	**56JH30**	2
General Purpose Mogul Screw-Base Light Bulbs										
300W INC/175W HID Wattage Equivalency										
LED	35 W	3000K	4,400 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR19**	1
	35 W	4000K	4,400 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR20**	1
	35 W	5000K	4,690 lm	No	50,000 hr	A23	6 ⅞ in	Light Efficient Design	**55VR21**	1
300W INC Wattage Equivalency										
Incandescent	100/200/300W	2700K	1250/2650/3900 lm	Yes	1,000 hr	PS25	4 ¼ in	Philips	**492Z93**	1
	300W	2800K	5200 lm	Yes	1,000 hr	PS35	9 ⅜ in	Current	**5V051**	1
	300W	2800K	5150 lm	Yes	1,000 hr	PS35	9 ⅜ in	Current	**5V054**	1

S11
493A28

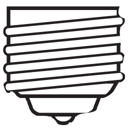
A15
1CWY4

Appliance Light Bulbs

Appliance light bulbs are sized to install into ovens, refrigerators, ceiling fans, and other household appliances.



Intermediate Screw (E17) Base



Medium Screw (E26) Base

Light Technology	Wattage Equivalency	Watts	Color Temp.	Bulb Finish	Lumens	Dimmable	Rated Life	Bulb Shape	Overall Length	Brand	Item No.	Pkg. Qty.
Appliance Light Bulbs												
Intermediate Screw (E17)												
Incandescent	10W INC	10W	2800K	Frosted	79 lm	Yes	1,500 hr	S11	2 ⅜ in	LumaPro	**4RZZ1**	1
	40W INC	40W	2800K	Clear	440 lm	No	500 hr	S11	2 ¼ in	Philips	**493A28**	1
	40W INC	40W	2700K	Clear	370 lm	Yes	1,500 hr	S11	2 ⅜ in	Satco	**451F89**	1
	40W INC	40W	2800K	Clear	440 lm	Yes	500 hr	S11	2 ⅜ in	LumaPro	**4RZZ3**	1
	40W INC	40W	2800K	Frosted	440 lm	Yes	500 hr	S11	2 ⅜ in	LumaPro	**4RZZ4**	1
Medium Screw (E26)												
Incandescent	7.5W INC	7.5W	2800K	Clear	53 lm	Yes	1,400 hr	S11	2 ¼ in	LumaPro	**4RZY1**	1
	7.5W INC	7.5W	2800K	White	39 lm	Yes	1,400 hr	S11	2 ¼ in	LumaPro	**4RZZ2**	1
	15W INC	15W	2500K	Soft White	100 lm	Yes	2,500 hr	A15	3 ½ in	Current	**1CWY4**	1
	15W INC	15W	2300K	White	115 lm	Yes	3,000 hr	A15	4 ⅜ in	Philips	**492Z70**	2
	15W INC	15W	2800K	Clear	120 lm	Yes	400 hr	S11	2 ¼ in	LumaPro	**4RZY9**	1
	40W INC	40W	2700K	Clear	300 lm	Yes	2,500 hr	A15	3 ½ in	Satco	**451F91**	1
	40W INC	40W	2800K	Clear	400 lm	Yes	1,750 hr	A15	4 ⅜ in	Philips	**492Z71**	2
	40W INC	40W	2600K	Clear	415 lm	Yes	1,500 hr	A15	3 ½ in	Current	**5V755**	1

61KV44

LED Plant Growth Bulbs

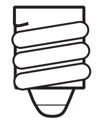
- 20,000 hr Rated Life

Run cool so they can be placed within inches of plants without causing wilt or burn. Grow lights emit light in color spectrums that optimize seedling growth, stem and leaf growth, or budding and flowering to grow plants indoors. They are rated for wet locations to withstand high humidity and resist water sprays. Grow lights are used in greenhouses, hydroponic gardening, vertical farming, agricultural research, and other indoor growth applications.

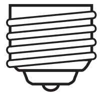
Wattage Equivalency	Watts	Spectrum	Bulb Beam Angle	Bulb Shape	Overall Length	UOM Qty 1 Item No.	UOM Qty 4 Item No.
Night Shift & Dark Cycle Bulbs							
Dark Cycle Grow Room Light							
60W INC	11 W	Green	180 °	A19	4 ⅖ in	**61KV39**	**61KV40**
Plant Growth Bulbs							
All-Stage Growth & Maintenance, Height Control, Leaf Growth, Photosynthesis, Vegetative Growth							
75W INC	6 W	Full/Broad	38 °	PAR20	3 1⁄10 in	**61KV41**	**61KV42**
100W INC	9 W	Full/Broad	180 °	A19	4 1⁄10 in	**61KV51**	**61KV52**
150W INC	12 W	Full/Broad	180 °	A19	4 ½ in	**61KV43**	**61KV44**
	14 W	Blue, Full/Broad, Red	180 °	A19	4 7⁄10 in	**61KV37**	**61KV38**
Budding, Flowering, Fruiting, High Yield Production, Photosynthesis, Vegetative Growth							
100W INC	9 W	Blue, Full/Broad, Red	180 °	A19	4 ⅕ in	**61KV49**	**61KV50**
150W INC	14 W	Blue, Full/Broad, Red	180 °	A19	4 7⁄10 in	**61KV35**	**61KV36**
Budding, Flowering, Fruiting, Photosynthesis							
150W INC	14 W	Full/Broad, Red	180 °	A19	4 7⁄10 in	**61KV31**	**61KV32**
Flowering, Fruiting, Photosynthesis, Vegetative Growth							
100W INC	9 W	Full/Broad, Red	180 °	A19	4 ⅕ in	**61KV45**	**61KV46**
Germination, Height Control, Seed Starting, Vegetative Growth							
100W INC	9 W	Blue, Full/Broad	180 °	A19	4 ⅕ in	**61KV47**	**61KV48**
150W INC	14 W	Blue, Full/Broad	180 °	A19	4 7⁄10 in	**61KV33**	**61KV34**

Candle-Shaped Decorative Light Bulbs

Candle-shaped light bulbs have a slim, tapered shape with a rounded point. They are sized to install into chandeliers and other decorative lighting fixtures where space is tight.



Candelabra Screw (E12) Base



Medium Screw (E26) Base

B10
54UA13

B13
492Z79

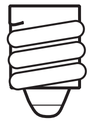
492Z85

C9-1/2
24W617

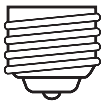
Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
B10 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2800K	180 lm	Clear	Yes	9,000 hr	3 ½ in	Aero-Tech	**24W614**	1
LED	40W INC/9 to 11W CFL	4 W	2700K	300 lm	—	Yes	15,000 hr	4 in	Maxlite	**54UA13**	1
Incandescent	40W INC	40W	2800K	400 lm	Clear	Yes	9,000 hr	3 ½ in	Aero-Tech	**24W619**	1
	Not Applicable	25 W	2850K	175 lm	Clear	Not Applicable	1,500 hr	3 ⅞ in	Sylvania	**60UA32**	1
	Not Applicable	40 W	2850K	360 lm	Clear	Not Applicable	1,500 hr	3 ⅞ in	Sylvania	**60UA28**	1
B11 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	150 lm	Clear	Yes	2,000 hr	4 ⅜ in	Philips	**492Z77**	2
LED	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP67**	1
Incandescent	40W INC	40W	2500K	300 lm	Clear	Yes	2,000 hr	4 in	Philips	**492Z78**	2
Halogen	40W INC	40 W	2900K	540 lm	Clear	Yes	3,000 hr	4 in	Philips	**493A37**	2
Incandescent	60W INC	60W	2700K	550 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A32**	2
B11 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP70**	1
	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Clear	Yes	15,000 hr	4 ½ in	Philips	**54YP72**	1
B13 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	25W INC	25W	2500K	170 lm	Clear	Yes	1,500 hr	4 ⅝ in	Current	**3VA47**	2
	40W INC	40W	2550K	300 lm	Clear	Yes	2,000 hr	4 in	Philips	**492Z79**	2
C7 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	4W INC	4W	2700K	16 lm	Clear	Yes	3,000 hr	4 ½ in	Philips	**493A21**	4
	7W INC	7W	2700K	45 lm	Clear	Yes	3,000 hr	6 ¼ in	Philips	**492Z85**	4
	7W INC	7W	2700K	35 lm	Clear	Yes	3,000 hr	2 ⅛ in	Satco	**451F90**	1
	15W INC	15W	2700K	105 lm	Clear	No	2,000 hr	2 in	Philips	**493A27**	2
C9-1/2 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	40W INC	40W	2800K	330 lm	Clear	Yes	9,000 hr	3 ¾ in	Aero-Tech	**24W617**	1

Angled Candle-Shaped Decorative Light Bulbs

The angled tip on these candle-shaped light bulbs resembles a flickering candle flame. The bulbs have a slim, tapered and fit into chandeliers and other decorative lighting fixtures with limited space for bulbs.

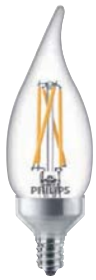


Candelabra Screw (E12) Base



Medium Screw (E26) Base

BA9
492Z86



BA11
54YP68

BA12
55YD47

CA9-1/2
451F81

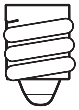
CA10
451F80

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BA9 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	25W INC	25W	2500K	150 lm	Clear	Yes	2,000 hr	2 ¼ in	Philips	**492Z86**	4
	25W INC	25W	2700K	150 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A31**	2
	40W INC	40W	2500K	300 lm	Clear	Yes	2,000 hr	4 ⅛ in	Philips	**492Z87**	4
	40W INC	40W	2700K	300 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A33**	2
	60W INC	60W	2700K	550 lm	Clear	Yes	2,000 hr	4 ½ in	Philips	**493A34**	4
BA11 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
LED	25W INC/7W CFL	2 W	2200 to 2700K	180 lm	Clear	Yes	15,000 hr	3 ⅝ in	Philips	**54YP68**	1
	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Clear	Yes	15,000 hr	3 ⅝ in	Philips	**54YP71**	1
	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Clear	Yes	15,000 hr	4 ⅜ in	Philips	**54YP73**	1
	75W INC/18 to 20W CFL	6.6 W	2700K	600 lm	—	Yes	15,000 hr	4 ⅜ in	Philips	**55YD46**	1
BA12 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W INC/18 to 20W CFL	6.6 W	2700K	600 lm	—	Yes	15,000 hr	4 ⅜ in	Philips	**55YD47**	1
CA9-1/2 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
Incandescent	40W INC	40W	2700K	370 lm	Clear	Yes	2,500 hr	3 ⅞ in	Satco	**451F81**	1
CA10 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	40W INC	40W	2700K	360 lm	Clear	Yes	2,500 hr	4 ¼ in	Satco	**451F80**	1
F15 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Clear	Yes	15,000 hr	8 ⅛ in	Philips	**54YP74**	1

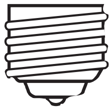
Current PHILIPS SYLVANIA SATCO NUVO

Globe-Shaped Decorative Light Bulbs

The spherical shape of these light bulbs creates visual interest when installed in bath and vanity fixtures.



Candelabra Screw (E12) Base



Medium Screw (E26) Base

G16.5
55XC86

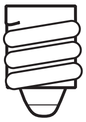
G25
55YD50

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
G16-1/2 Bulb Shape; Candelabra Screw (E12) Bulb Base Type											
LED	25W INC/7W CFL	3 W	2700K	250 lm	—	Yes	15,000 hr	3 in	Current	**55XC86**	2
	40W INC/9 to 11W CFL	3.8 W	2700K	350 lm	—	Yes	15,000 hr	3 ⅜ in	Philips	**55YD51**	1
	40W INC	4 W	2700K	350 lm	Clear	Yes	15,000 hr	—	Current	**794HJ6**	2
Incandescent	Not Applicable	25 W	2850K	180 lm	Soft White	Not Applicable	1,500 hr	3 in	Sylvania	**60UA62**	1
G16-1/2 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC	3.8 W	2700K	350 lm	—	Yes	15,000 hr	—	Philips	**55YD52**	1
G25 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	40W INC/9 to 11W CFL	3.8 W	2700K	350 lm	—	Yes	15,000 hr	4 ¾ in	Philips	**55YD50**	1
	40W INC/9 to 11W CFL	4.5 W	2700K	350 lm	Frosted	Yes	15,000 hr	4 ⅜ in	Current	**482P36**	3
Incandescent	40W INC	40W	2600K	410 lm	Clear	Yes	2,000 hr	5 ½ in	Philips	**492Z89**	1
	40W INC	40W	2600K	410 lm	Clear	Yes	2,000 hr	4 ¼ in	Philips	**492Z90**	3
	40W INC	40W	2700K	320 lm	White	Yes	3,000 hr	4 ⅜ in	Satco	**451F86**	1
Halogen	40W INC	40 W	2800K	550 lm	Clear	Yes	2,500 hr	4 ½ in	Philips	**492Z67**	1
	40W INC	40 W	2800K	500 lm	Frosted	Yes	2,500 hr	4 ½ in	Philips	**492Z68**	1
LED	60W INC	5 W	2700K	500 lm	Clear	Yes	15,000 hr	—	Current	**794HJ5**	2

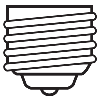
shat-r-shield FEIT ELECTRIC PHILIPS MaxLite

Vintage Filament-Style Decorative Light Bulbs

The LED filaments on these bulbs mimic the look of the ornate filaments in early incandescent light bulbs.



Candelabra Screw (E12) Base



Medium Screw (E26) Base

A15
55VR81

B11
54YP70

ST19
54UA16

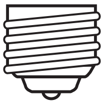
T20
55VR77

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Dimmable	Rated Life	Overall Length	Base Type	Brand	Item No.	Pkg. Qty.
A15 Bulb Shape											
LED	40W INC/9 to 11W CFL	4.5 W	2700K	470 lm	Yes	15,000 hr	3 ⅜ in	Medium Screw (E26)	Shat-R-Shield	**55VR81**	1
	40W INC	5 W	2700K	450 lm	Yes	15,000 hr	3 ⅜ in	Medium Screw (E26)	Feit Electric	**56JH26**	2
	40W INC	5 W	2700K	450 lm	Yes	15,000 hr	3 ⅜ in	Candelabra Screw (E12)	Feit Electric	**56JH27**	2
	60W INC	8 W	2700K	750 lm	Yes	15,000 hr	3 ⅜ in	Medium Screw (E26)	Feit Electric	**56JH29**	2
	60W INC	8.3 W	2700K	750 lm	Yes	15,000 hr	3 ⅜ in	Candelabra Screw (E12)	Feit Electric	**56JH30**	2
A19 Bulb Shape											
LED	40W INC/9 to 11W CFL	4.5 W	2000K	300 lm	Yes	15,000 hr	4 ¼ in	Medium Screw (E26)	Philips	**55YD42**	1
	40W INC	5 W	2700K	450 lm	Yes	15,000 hr	4 in	Medium Screw (E26)	Feit Electric	**56JH33**	2
	60W INC	9 W	2700K	810 lm	Yes	15,000 hr	4 in	Medium Screw (E26)	Feit Electric	**56JH34**	2
	60W INC	9 W	5000K	810 lm	Yes	15,000 hr	4 in	Medium Screw (E26)	Feit Electric	**56JH35**	2
B10 Bulb Shape											
LED	40W INC/9 to 11W CFL	4 W	2700K	300 lm	Yes	15,000 hr	4 in	Candelabra Screw (E12)	Maxlite	**54UA13**	1
B11 Bulb Shape											
LED	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Yes	15,000 hr	4 ½ in	Candelabra Screw (E12)	Philips	**54YP67**	1
	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Yes	15,000 hr	4 ½ in	Medium Screw (E26)	Philips	**54YP70**	1
	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Yes	15,000 hr	4 ½ in	Medium Screw (E26)	Philips	**54YP72**	1
BA11 Bulb Shape											
LED	25W INC/7W CFL	2 W	2200 to 2700K	180 lm	Yes	15,000 hr	3 ⅝ in	Candelabra Screw (E12)	Philips	**54YP68**	1
	40W INC/9 to 11W CFL	3.3 W	2700K	300 lm	Yes	15,000 hr	3 ⅝ in	Candelabra Screw (E12)	Philips	**54YP71**	1
	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Yes	15,000 hr	4 ⅜ in	Candelabra Screw (E12)	Philips	**54YP73**	1
	75W INC/18 to 20W CFL	6.6 W	2700K	600 lm	Yes	15,000 hr	4 ⅜ in	Candelabra Screw (E12)	Philips	**55YD46**	1
BA12 Bulb Shape											
LED	75W INC/18 to 20W CFL	6.6 W	2700K	600 lm	Yes	15,000 hr	4 ⅜ in	Medium Screw (E26)	Philips	**55YD47**	1
F15 Bulb Shape											
LED	60W INC/13 to 15W CFL	5.5 W	2700K	500 lm	Yes	15,000 hr	8 ⅛ in	Medium Screw (E26)	Philips	**54YP74**	1
G16-1/2 Bulb Shape											
LED	40W INC/9 to 11W CFL	3.8 W	2700K	350 lm	Yes	15,000 hr	3 ⅜ in	Candelabra Screw (E12)	Philips	**55YD51**	1
	40W INC	3.8 W	2700K	350 lm	Yes	15,000 hr	—	Medium Screw (E26)	Philips	**55YD52**	1
G25 Bulb Shape											
LED	40W INC/9 to 11W CFL	3.8 W	2700K	350 lm	Yes	15,000 hr	4 ¾ in	Medium Screw (E26)	Philips	**55YD50**	1
S14 Bulb Shape											
LED	10W INC	10 W	2700K	60 lm	No	15,000 hr	3 ⅜ in	Medium Screw (E26)	Philips	**784ND1**	1
ST19 Bulb Shape											
LED	40W INC/9 to 11W CFL	5 W	2000K	350 lm	Yes	15,000 hr	5 ½ in	Medium Screw (E26)	Philips	**55YD43**	1
	40W INC/9 to 11W CFL	5 W	2200K	320 lm	Yes	15,000 hr	5 ¾ in	Medium Screw (E26)	Maxlite	**54UA16**	1
T20 Bulb Shape											
LED	60W INC/13 to 15W CFL	6.5 W	2200K	600 lm	Yes	15,000 hr	5 ½ in	Medium Screw (E26)	Shat-R-Shield	**55VR77**	1
	60W INC/13 to 15W CFL	6.5 W	2700K	800 lm	Yes	15,000 hr	5 ½ in	Medium Screw (E26)	Shat-R-Shield	**55VR76**	1

PHILIPS

Colored Decorative Light Bulbs

The colored lenses on these bulbs tint the color of the light emitted by the bulb. Commonly known as party lights, colored decorative light bulbs are used for celebrating seasons and holidays and as mood lighting for parties and events.



Medium Screw (E26) Base

A19
54YP63

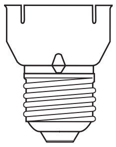
PAR38
448K86

Light Technology	Wattage Equivalency	Watts	Light Appearance	Dimmable	Rated Life	Overall Length	Item No.	Pkg. Qty.
A19 Bulb Shape; Medium Screw (E26) Bulb Base Type								
LED	40W INC	8 W	Warm White	No	10,000 hr	4 ¼ in	**54YP59**	1
	40W INC	8 W	Warm White	No	10,000 hr	4 ¼ in	**54YP60**	1
	40W INC	8 W	Warm White	No	10,000 hr	4 ¼ in	**54YP61**	1
	40W INC	8 W	Red	No	10,000 hr	4 ¼ in	**54YP62**	1
	40W INC	8 W	Warm White	No	10,000 hr	4 ¼ in	**54YP63**	1
	40W INC	8 W	Warm White	No	10,000 hr	4 ¼ in	**54YP64**	1
PAR38 Bulb Shape; Medium Screw (E26) Bulb Base Type								
LED	90W HAL	13.5 W	Blue	No	10,000 hr	5 ⅝ in	**448K86**	1
	90W HAL	13.5 W	Yellow	No	10,000 hr	5 ⅝ in	**448K87**	1
	90W HAL	13.5 W	Green	No	10,000 hr	5 ⅝ in	**448K88**	1
	90W HAL	13.5 W	Red	No	10,000 hr	5 ⅝ in	**448K89**	1

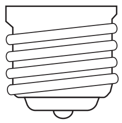
shat-r-shield INC. The Protective Lighting Company | Current | SATCO | NUVO

Heat Lamp Reflector Light Bulbs

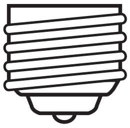
The wide beam of infrared light cast by these bulbs also emits radiant heat. Heat lamp reflector bulbs are used for warming animal enclosures, drying chemicals and paint, heating bathrooms, preventing pipes or equipment from freezing, and keeping food warm in food-service areas.



Medium Skirted (E26/50x39) Base



Mogul Screw (E39) Base



Medium Screw (E26) Base

BR40
33H575

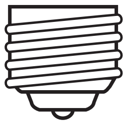
R40
451F96

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Finish	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BR40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	125W INC	125W	2700K	—	Clear	No	5,000 hr	6 ½ in	Shat-R-Shield	**33H575**	1
	250W INC	250W	2500K	2200 lm	Clear	Yes	5,000 hr	6 ⅝ in	Current	**4V673**	1
	250W INC	250W	2700K	1200 lm	Clear	No	5,000 hr	6 ½ in	Shat-R-Shield	**11D011**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	125W INC	125W	2700K	300 lm	Clear	Yes	6,000 hr	6 ½ in	Satco	**451F96**	1
	250W INC	250W	2700K	1200 lm	—	No	5,000 hr	6 ½ in	Shat-R-Shield	**55VR71**	1
	250W INC	250W	Not Rated	Not Rated, Heat Lamp	Red	No	5,000 hr	6 ½ in	Shat-R-Shield	**30ZX22**	1
R40 Bulb Shape; Medium Skirted (E26/53x39) Bulb Base Type											
Incandescent	375W INC	375W	2700K	2700 lm	Clear	Yes	5,000 hr	7 ½ in	Current	**5V211**	1

shat-r-shield INC. The Protective Lighting Company

Shatter-Resistant Spot, Reflector & Flood Light Bulbs

The surface coating on these bulbs keeps broken glass, mercury, and phosphors contained if the bulbs burst or break, preventing the contaminants from spreading into the surrounding area. The bulbs have a reflective inner surface that intensifies their light output. Shatter-resistant bulbs are used in manufacturing plants, food-processing facilities, and other settings where product contamination must be avoided. They are also used in areas where the light bulbs may be exposed to shaking or impacts.



Medium Screw (E26) Base

BR30
493V05

R40
493V06

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Item No.	Pkg. Qty.
BR30 Bulb Shape; Medium Screw (E26) Bulb Base Type										
LED	5W INC	9 W	5000K	750 lm	115°	Yes	25,000 hr	5 ¼ in	**493V05**	1
Halogen	65W INC	50 W	2680K	590 lm	30°	Yes	2,500 hr	5 ¼ in	**55VR72**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type										
LED	85W INC	16.5 W	5000K	1,200 lm	115°	Yes	25,000 hr	6 ½ in	**493V06**	1

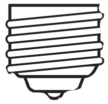
AR Light Bulbs

PHILIPS

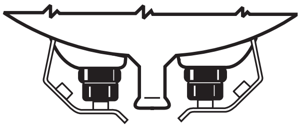
Aluminum-faceted reflector (AR) light bulbs produce a very narrow beam of light. They are used in display cases and architectural lighting for spotlighting objects that are a short distance away.

AR111
55YD39

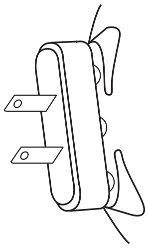
Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
AR111 Bulb Shape; 2-Pin (GX5.3) Bulb Base Type											
LED	75W HAL	16 W	3000K	900 lm	25°	Yes	25,000 hr	2 ½ in	Philips	**55YD39**	1
	100W HAL	20 W	3000K	1,200 lm	25°	Yes	25,000 hr	2 ½ in	Philips	**55YD40**	1
AR111 Bulb Shape; Screw Terminal/Plug-In Prong (G53) Bulb Base Type											
Halogen	50W INC	50 W	3000K	950 lm	24°	Yes	3,000 hr	2 ½ in	Philips	**492Z33**	1



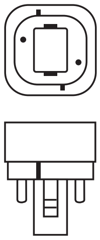
Medium Screw (E26) Base



Screw Terminals Base



Mogul End Prong (GX16d) Base



2-Pin (G24D-2) Base

PAR16
492Z42

PAR20
45NY24

PAR30
246M68

PAR30L
784N76

PAR30S
60FV13

PAR38
45NY09

PAR Light Bulbs

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Parabolic aluminized reflector (PAR) light bulbs are used for indoor and outdoor accent lighting, such as highlighting flagpoles or building facades, interior track lighting, illuminating walls, security lighting, stage lighting, and sign lighting.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
PAR16 Bulb Shape; 2-Pin (GU10) Bulb Base Type											
LED	50W HAL	5 W	2700K	380 lm	35°	Yes	25,000 hr	2 ⅞ in	Philips	**45HE82**	1
PAR16 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	45W INC	4.1 W	3000K	375 lm	40 °	Yes	25,000 hr	3 in	Feit Electric	**56JH46**	1
	45W INC	4.1 W	5000K	375 lm	40 °	Yes	25,000 hr	3 in	Feit Electric	**56JH47**	1
Halogen	60W INC	60 W	2900K	580 lm	27°	Yes	2,500 hr	3 ⅛ in	Philips	**492Z42**	1
PAR20 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	39W INC	39 W	2900K	480 lm	25°	Yes	1,000 hr	3 ⅜ in	Philips	**492Z43**	1
	39W INC	39 W	2900K	480 lm	10°	Yes	1,000 hr	3 ⅜ in	Philips	**492Z44**	1
LED	50W HAL	7 W	2700K	500 lm	35°	Yes	25,000 hr	3 ½ in	Current	**45CM40**	1
	50W HAL	7 W	2700K	500 lm	20°	Yes	25,000 hr	3 ½ in	Current	**45NY24**	1
	50W HAL	7 W	3000K	520 lm	20°	Yes	25,000 hr	3 ½ in	Current	**45AU69**	1
	50W HAL	7 W	3000K	520 lm	20°	Yes	25,000 hr	3 ½ in	Current	**45NY25**	1
	50W HAL	7 W	3000K	520 lm	20°	Yes	25,000 hr	3 ½ in	Current	**45NY26**	1
	50W INC	5 W	3000K	450 lm	40 °	Yes	25,000 hr	3 ¼ in	Feit Electric	**56JH73**	1
	50W INC	5 W	5000K	450 lm	40 °	Yes	25,000 hr	3 ¼ in	Feit Electric	**56JH74**	1
	50W INC	7 W	2700K	500 lm	35°	Yes	15,000 hr	3 ½ in	Current	**482P42**	1
	50W PAR20 HAL	5.5 W	2700K	500 lm	25 °	Yes	25,000 hr	3 ¼ in	Philips	**784N84**	1
	50W PAR20 HAL	5.5 W	2700K	500 lm	40 °	Yes	25,000 hr	3 ¼ in	Philips	**784N85**	1
	50W PAR20 HAL	5.5 W	3000K	500 lm	25 °	Yes	25,000 hr	3 ¼ in	Philips	**784N86**	1
	50W PAR20 HAL	5.5 W	3000K	500 lm	40 °	Yes	25,000 hr	3 ¼ in	Philips	**784N87**	1
PAR30 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	50W INC	38 W	2850K	580 lm	25°	Yes	1,500 hr	3 ⅝ in	Current	**39P421**	1
LED	75W HAL	12 W	2700K	1,000 lm	25°	Yes	25,000 hr	3 ¾ in	Current	**45NY16**	1
	75W HAL	12 W	2700K	1,000 lm	40°	Yes	25,000 hr	3 ¾ in	Current	**45NY17**	1
	75W HAL	12 W	3000K	950 lm	35°	Yes	25,000 hr	3 ¾ in	Current	**45AU63**	1
	75W HAL	12 W	3000K	1,050 lm	25°	Yes	25,000 hr	3 ¾ in	Current	**45NY18**	1
	75W HAL	12 W	3000K	1,050 lm	40°	Yes	25,000 hr	3 ¾ in	Current	**45NY19**	1
	75W INC	8.3 W	3000K	750 lm	38 °	Yes	25,000 hr	4 ¾ in	Feit Electric	**56JH75**	1
	75W INC	8.3 W	3000K	750 lm	25 °	Yes	25,000 hr	4 ¾ in	Feit Electric	**56JH77**	1
	75W INC	8.3 W	3000K	750 lm	40 °	Yes	25,000 hr	3 ½ in	Feit Electric	**56JH79**	1
	75W INC	8.3 W	5000K	750 lm	40 °	Yes	25,000 hr	4 ¾ in	Feit Electric	**56JH76**	1
	75W INC	8.3 W	5000K	750 lm	25 °	Yes	25,000 hr	4 ¾ in	Feit Electric	**56JH78**	1
	75W INC	8.3 W	5000K	750 lm	40 °	Yes	25,000 hr	3 ½ in	Feit Electric	**56JH80**	1
	75W INC	12 W	2700K	850 lm	40°	Yes	25,000 hr	3 ¾ in	Current	**246M70**	1
	75W INC	12 W	2700K	900 lm	35°	Yes	15,000 hr	3 ¾ in	Current	**482P38**	2
	75W INC	12 W	3000K	900 lm	40°	Yes	25,000 hr	9 in	Current	**246M68**	1
PAR30L Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W HAL	12 W	2700K	1,000 lm	40°	Yes	25,000 hr	4 ¾ in	Current	**45NY21**	1
	75W HAL	12 W	3000K	1,050 lm	25°	Yes	25,000 hr	4 ¾ in	Current	**45NY22**	1
	75W HAL	12 W	3000K	1,050 lm	40°	Yes	25,000 hr	4 ¾ in	Current	**45NY23**	1
	75W INC	9 W	3000K	850 lm	40 °	Yes	25,000 hr	3 ¾ in	Philips	**60FV14**	1
	75W INC	12 W	2700K	850 lm	40°	Yes	25,000 hr	8 ½ in	Current	**246M73**	1
	75W INC	12 W	2700K	1,050 lm	25°	Yes	25,000 hr	4 ¾ in	Current	**55XC93**	1
	75W INC	12 W	3000K	900 lm	40°	Yes	25,000 hr	9 in	Current	**246M72**	1
	75W INC	12 W	3000K	900 lm	25°	Yes	25,000 hr	4 ¾ in	Current	**55XC92**	1
Halogen	75W INC	53 W	2860K	920 lm	10°	Yes	1,000 hr	4 ½ in	Philips	**492Z45**	1
LED	75W PAR30 HAL Long Neck	8.5 W	2700K	800 lm	25 °	Yes	25,000 hr	4 ⅝ in	Philips	**784N74**	1
	75W PAR30 HAL Long Neck	8.5 W	2700K	800 lm	40 °	Yes	25,000 hr	4 ⅝ in	Philips	**784N76**	1
	75W PAR30 HAL Long Neck	8.5 W	3000K	850 lm	25 °	Yes	25,000 hr	4 ⅝ in	Philips	**784N75**	1
	75W PAR30 HAL Long Neck	8.5 W	3000K	850 lm	40 °	Yes	25,000 hr	4 ⅝ in	Philips	**784N77**	1
PAR30S Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	75W INC	9 W	3000K	850 lm	40 °	Yes	25,000 hr	3 ¾ in	Philips	**60FV13**	1
	75W PAR30 HAL Short Neck	8.5 W	2700K	800 lm	25 °	Yes	25,000 hr	3 ½ in	Philips	**784N70**	1
	75W PAR30 HAL Short Neck	8.5 W	2700K	800 lm	40 °	Yes	25,000 hr	3 ½ in	Philips	**784N72**	1
	75W PAR30 HAL Short Neck	8.5 W	3000K	850 lm	25 °	Yes	25,000 hr	3 ½ in	Philips	**784N71**	1
	75W PAR30 HAL Short Neck	8.5 W	3000K	850 lm	40 °	Yes	25,000 hr	3 ½ in	Philips	**784N73**	1
PAR36 Bulb Shape; Screw Terminals Bulb Base Type											
Halogen	35W INC	35 W	3000K	250 lm	30°	Yes	4,000 hr	3 ¾ in	Current	**4V091**	1
	40W INC	36 W	3000K	450 lm	30°	Yes	4,000 hr	2 ¾ in	Philips	**492Z46**	1
Incandescent	100W INC	100W	3000K	8750 lm	40°	Yes	25 hr	2 ¾ in	Current	**6VK26**	1
	250W INC	250W	3000K	1800 lm	7°	Yes	25 hr	2 ¾ in	Current	**1G864**	1
PAR38 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Halogen	70W INC	70 W	2925K	1305 lm	25 °	Yes	1,100 hr	5 3⁄10 in	Sylvania	**793EN4**	1
	75W INC	60 W	2900K	1070 lm	30°	Yes	1,100 hr	5 ⅜ in	Current	**22C433**	1
	80W INC	80 W	3000K	1600 lm	10°	Yes	1,100 hr	5 ⅜ in	Current	**22C434**	1
LED	90W INC	11.1 W	3000K	1000 lm	38 °	Yes	25,000 hr	5 in	Feit Electric	**56JH83**	1
	90W INC	11.1 W	5000K	1000 lm	38 °	Yes	25,000 hr	5 in	Feit Electric	**56JH84**	1
	90W INC	15 W	3000K	1,300 lm	40°	Yes	25,000 hr	5 ⅛ in	Current	**45UY91**	1
	90W PAR38 HAL	10 W	2700K	900 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N68**	1
	90W PAR38 HAL	10 W	3000K	900 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N66**	1
	90W PAR38 HAL	10 W	3000K	900 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N69**	1
	90W PAR38 HAL	10 W	3500K	900 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC3**	1
	90W PAR38 HAL	10 W	3500K	900 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC4**	1
	90W PAR38 HAL	10 W	4000K	900 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N67**	1
	100W INC	12 W	3000K	950 lm	12°	Yes	25,000 hr	5 ⅜ in	Current	**55XC94**	1
Halogen	100W INC	72 W	2880K	1350 lm	25°	Yes	1,000 hr	5 ¼ in	Philips	**492Z47**	1
	100W INC	72 W	2880K	1350 lm	10°	Yes	1,000 hr	5 ¼ in	Philips	**492Z48**	1
Incandescent	100W INC	100W	1330K	1320 lm	55°	Yes	5,000 hr	5 ⅜ in	Philips	**493A16**	1
LED	120W HAL	14 W	2700K	1,300 lm	25°	Yes	25,000 hr	5 ¼ in	Philips	**55YD37**	1
	120W HAL	18 W	2700K	1,250 lm	40°	Yes	25,000 hr	5 ⅛ in	Current	**246M80**	1
	120W HAL	18 W	2700K	1,550 lm	25°	Yes	25,000 hr	5 ⅛ in	Current	**45NY11**	1
	120W HAL	18 W	2700K	1,550 lm	40°	Yes	25,000 hr	5 ⅛ in	Current	**45NY12**	1
	120W HAL	18 W	3000K	1,350 lm	40°	Yes	25,000 hr	5 ⅛ in	Current	**246M84**	1
	120W HAL	18 W	3000K	1,550 lm	25°	Yes	25,000 hr	5 ⅛ in	Current	**45NY09**	1
	120W HAL	18 W	4000K	1,700 lm	25°	Yes	25,000 hr	5 ⅜ in	Current	**45NY13**	1
	120W INC	15.5 W	3000K	1400 lm	40 °	Yes	25,000 hr	5 in	Feit Electric	**56JH81**	1
	120W INC	15.5 W	5000K	1400 lm	40 °	Yes	25,000 hr	5 in	Feit Electric	**56JH82**	1
	120W INC	16 W	2700K	1,300 lm	40°	Yes	15,000 hr	5 ⅜ in	Current	**482P37**	2
	120W INC	18 W	4000K	1,700 lm	40°	Yes	25,000 hr	5 ⅜ in	Current	**45NY14**	1
	120W PAR38 HAL	13 W	2700K	1,200 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N78**	1
	120W PAR38 HAL	13 W	2700K	1,200 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N82**	1
	120W PAR38 HAL	13 W	3000K	1,200 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N79**	1
	120W PAR38 HAL	13 W	3000K	1,200 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N83**	1
	120W PAR38 HAL	13 W	3500K	1,200 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC5**	1
	120W PAR38 HAL	13 W	3500K	1,200 lm	40 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC6**	1
	120W PAR38 HAL	13 W	4000K	1,200 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N80**	1
	120W PAR38 HAL	13 W	5000K	1,200 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784N81**	1
	150W HAL	18 W	3000K	1,550 lm	40°	Yes	25,000 hr	5 ⅛ in	Current	**45NY10**	1

CONTINUED

CONTINUED

PAR56
1K441

PL Vertical
54EL42

PAR Light Bulbs

PHILIPS | FEIT Electric | Current | SYLVANIA

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
Incandescent	175W INC	175W	1330K	2620 lm	360°	Yes	5,000 hr	5 ⅜ in	Philips	**492Z91**	1
LED	250W PAR38 HAL	27 W	3000K	2,800 lm	15 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC1**	1
	250W PAR38 HAL	27 W	3000K	2,800 lm	25 °	Yes	25,000 hr	5 ⅛ in	Philips	**784NC2**	1
PAR56 Bulb Shape; Mogul End Prong (GX16d) Bulb Base Type											
Incandescent	300W INC	300W	2750K	3840 lm	60°	Yes	2,000 hr	5 in	Current	**4V499**	1
PAR56 Bulb Shape; Screw Terminals Bulb Base Type											
Incandescent	200W INC	200W	3000K	3700 lm	15°	Yes	350 hr	4 ½ in	Current	**5V123**	1
	350W INC	350W	3000K	6200 lm	15°	Yes	500 hr	4 ½ in	Current	**1K441**	1
PAR64 Bulb Shape; Screw Terminals Bulb Base Type											
Halogen	600W INC	600 W	3000K	60,000 lm	40°	Yes	100 hr	4 ½ in	Current	**6VK46**	1
PL Vertical Bulb Shape; 2-Pin (G24d) Bulb Base Type											
LED	75W INC/18 to 20W CFL	10.5 W	2700K	1,000 lm	120°	No	50,000 hr	6 ⅛ in	Current	**54EL42**	1
	75W INC/18 to 20W CFL	10.5 W	3500K	1,050 lm	120°	No	50,000 hr	6 ⅛ in	Current	**54EL44**	1
	75W INC/18 to 20W CFL	10.5 W	4000K	1,050 lm	120°	No	50,000 hr	6 ⅛ in	Current	**54EL45**	1

BR30
492Z69

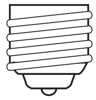
BR40
36GJ48

R14
492Z95

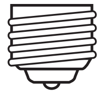
R20
36GJ42

R30
40D435

R40
493A03



Intermediate Screw (E17) Base



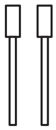
Medium Screw (E26) Base

BR and R Light Bulbs

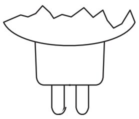
PHILIPS | FEIT Electric | SATCO | NUVO | SYLVANIA | Current | shat-r-shield INC. The Protective Lighting Company

Bulged reflector (BR) light bulbs have a reflector that prevents light from becoming trapped in the bulbs' neck and sides and instead directs the light forward out the bulbs' top. These bulbs are commonly used as floodlights and corridor lights. Reflector (R) light bulbs have a reflective inner surface that intensifies the bulbs' light output. They install into track lights, can lights, and accent lights for general lighting applications.

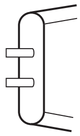
Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
BR30 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	45W INC	45W	2700K	330 lm	30°	Yes	2,500 hr	5 ⅜ in	Philips	**493A17**	3
Halogen	50W INC	50 W	2900K	600 lm	60°	Yes	2,000 hr	5 ¼ in	Philips	**492Z69**	3
LED	65W INC/16W CFL	7.2 W	2700K	650 lm	110°	Yes	15,000 hr	5 ¼ in	Philips	**54YP77**	1
	65W INC/16W CFL	7.2 W	2700K	650 lm	90°	Yes	15,000 hr	5 ⅜ in	Philips	**54YP75**	1
	65W INC	7.2 W	2700K	650 lm	110 °	Yes	25,000 hr	5 in	Feit Electric	**56JH49**	3
	65W INC	7.2 W	3000K	650 lm	90 °	Yes	15,000 hr	5 ¼ in	Philips	**56LX05**	1
	65W INC	7.2 W	3000K	650 lm	120 °	Yes	25,000 hr	5 in	Feit Electric	**56JH50**	3
Incandescent	65W INC	65W	2680K	605 lm	300°	Yes	4,000 hr	4 in	Philips	**492Z80**	1
	65W INC	65W	2690K	610 lm	55°	Yes	2,500 hr	5 ⅜ in	Philips	**492Z81**	3
	65W INC	65W	2700K	620 lm	360°	Yes	2,000 hr	5 ⅜ in	Satco	**451F85**	1
	65W INC	65W	2710K	620 lm	55°	Yes	2,000 hr	5 ⅜ in	Philips	**492Z82**	1
LED	65W	9 W	2700K	650 lm	110 °	No	11,000 hr	5 ⅛ in	Philips	**60RD98**	1
	85W INC	12.2 W	2700K	1100 lm	120 °	Yes	25,000 hr	5 in	Feit Electric	**56JH51**	2
	85W INC	12.2 W	5000K	1100 lm	120 °	Yes	25,000 hr	5 in	Feit Electric	**56JH52**	2
	100W INC	15 W	2700K	1,400 lm	110°	Yes	15,000 hr	5 ⅛ in	Philips	**55YD48**	1
Incandescent	Not Applicable		2850K	540 lm	60 °	Not Applicable	2,000 hr	3 ⅗ in	Sylvania	**60UA34**	1
BR40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	65W INC/16W CFL	10 W	2700K	800 lm	90°	Yes	15,000 hr	6 ½ in	Philips	**54YP78**	1
	65W INC	9.4 W	2700K	850 lm	110 °	Yes	25,000 hr	6 ⅜ in	Feit Electric	**56JH53**	2
	65W INC	9.4 W	3000K	850 lm	110 °	Yes	25,000 hr	6 ⅜ in	Feit Electric	**56JH54**	2
	65W INC	9.4 W	5000K	850 lm	110 °	Yes	25,000 hr	6 ⅜ in	Feit Electric	**56JH55**	2
	65W INC	11 W	2700K	950 lm	40°	Yes	15,000 hr	6 ½ in	Current	**482P40**	1
Incandescent	65W INC	65W	2700K	620 lm	60°	Yes	2,000 hr	2 ¼ in	Philips	**493A15**	12
	65W INC	65W	2750K	565 lm	55°	Yes	4,000 hr	5 ⅜ in	Philips	**492Z83**	1
	65W INC	65W	2750K	565 lm	60°	Yes	2,000 hr	6 ¼ in	Philips	**492Z84**	1
LED	85W INC	13 W	2700K	1,070 lm	120°	Yes	25,000 hr	6 ⅜ in	Current	**36GJ48**	1
	85W INC	13 W	3000K	1,070 lm	120°	Yes	25,000 hr	6 ⅜ in	Current	**36GJ49**	1
	85W INC	13 W	5000K	1,070 lm	25°	Yes	25,000 hr	6 ⅜ in	Current	**55XC78**	1
	120W INC	15.5 W	2700K	1400 lm	110 °	Yes	25,000 hr	5 in	Feit Electric	**56JH56**	1
	150W INC	20 W	2700K	2,175 lm	110°	Yes	15,000 hr	6 ¼ in	Philips	**55YD49**	1
Incandescent	250W INC	250W	1330K	378 lm	60°	Yes	5,000 hr	3 ¾ in	Philips	**493A01**	1
	250W INC	250W	1330K	378 lm	60°	Yes	5,000 hr	6 ¼ in	Philips	**493A02**	1
	250W INC	250W	2700K	1200 lm	105°	No	5,000 hr	6 ½ in	Shat-R-Shield	**11D011**	1
	250W INC	250 W	2850K	2000 lm	80 °	Yes	5,000 hr	4 ¹¹⁄₁₆ in	Sylvania	**56GJ86**	1
	250W INC	250 W	2850K	2000 lm	80 °	Yes	5,000 hr	4 ¹¹⁄₁₆ in	Sylvania	**56GK98**	1
	500W INC	500W	2700K	5500 lm	360°	Yes	2,000 hr	6 ½ in	Satco	**451F99**	1
R14 Bulb Shape; Intermediate Screw (E17) Bulb Base Type											
Incandescent	25W INC	25W	2800K	150 lm	30°	Yes	1,750 hr	2 in	Philips	**492Z95**	1
R20 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	30W INC	30W	2550K	205 lm	30°	Yes	2,500 hr	2 ½ in	Philips	**492Z96**	1
LED	45W INC	5 W	2700K	450 lm	40°	Yes	15,000 hr	3 ⅝ in	Current	**482P43**	1
	45W INC	7 W	5000K	470 lm	25°	Yes	25,000 hr	3 ⅝ in	Current	**55XC77**	1
Incandescent	45W INC	45W	2550K	385 lm	30°	Yes	2,500 hr	3 ¾ in	Philips	**492Z97**	3
	45W INC	45W	2550K	385 lm	40°	Yes	2,500 hr	4 in	Philips	**492Z98**	1
	45W INC	45W	2550K	380 lm	40°	Yes	2,000 hr	4 in	Philips	**492Z99**	1
	45W INC	45W	2600K	385 lm	60°	Yes	2,500 hr	5 ⅜ in	Philips	**493A18**	3
LED	50W HAL	5 W	2700K	450 lm	90°	Yes	15,000 hr	3 ¾ in	Philips	**54YP76**	1
	50W INC	7 W	2700K	470 lm	120°	Yes	25,000 hr	3 ¾ in	Current	**36GJ42**	1
	50W HAL	7 W	3000K	525 lm	120°	Yes	25,000 hr	3 ¾ in	Current	**36GJ43**	1
Incandescent	120W INC	120W	1330K	550 lm	40°	Yes	2,000 hr	3 ¾ in	Philips	**493A19**	1
R30 Bulb Shape; Medium Screw (E26) Bulb Base Type											
LED	65W INC	10 W	2700K	700 lm	120°	Yes	25,000 hr	5 ½ in	Current	**40D434**	1
	65W INC	10 W	3000K	700 lm	120°	Yes	25,000 hr	5 ½ in	Current	**40D435**	1
R40 Bulb Shape; Medium Screw (E26) Bulb Base Type											
Incandescent	250W INC	250W	1330K	378 lm	60°	Yes	5,000 hr	6 ¼ in	Philips	**493A03**	1
	375W INC	375 W	2850K	2000 lm	80 °	Yes	5,000 hr	4 ¹³⁄₁₆ in	Sylvania	**56GJ88**	1



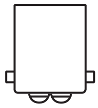
2-Pin (G4) Base



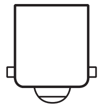
2-Pin (GU5.3) Base



2-Pin Miniature (GY5.3) Base



Double Contact Bayonet (BA15d) Base



Single Contact Bayonet (BA15s) Base

MR11 492Z34

MR16 490Z25

MR Light Bulbs

Multifaceted reflector (MR) light bulbs have several internal reflectors that direct light at a precise angle as it exits the bulbs. MR bulbs produce a narrow beam of light and are used in display cases and small task lights where the bulb is spotlighting objects that are a short distance away. These compact bulbs also fit into tight areas where the bulb will be concealed, such as elevator lights.

Light Technology	Wattage Equivalency	Watts	Color Temp.	Lumens	Bulb Beam Angle	Dimmable	Rated Life	Overall Length	Brand	Item No.	Pkg. Qty.
MR11 Bulb Shape; 2-Pin (G4) Bulb Base Type											
Halogen	20W INC	20 W	2800K	165 lm	25°	Yes	4,000 hr	1 ⅜ in	Current	**1C736**	1
MR11 Bulb Shape; 2-Pin (GU4) Bulb Base Type											
Halogen	20W INC	20 W	2800K	215 lm	30°	Yes	2,000 hr	1 ¾ in	Philips	**492Z34**	1
LED	25W INC	3 W	3000K	245 lm	—	No	25,000 hr	1 ¼ in	Feit Electric	**56JH40**	1
MR16 Bulb Shape; 2-Pin (GU10) Bulb Base Type											
Halogen	35W HAL	35 W	2900K	400 cbcp	38°	Yes	2,000 hr	1 ⅞ in	Satco	**451F87**	1
LED	35W INC	4 W	3000K	300 lm	40 °	Yes	25,000 hr	2 ⅜ in	Feit Electric	**56JH42**	1
	35W INC	4 W	5000K	300 lm	40 °	Yes	25,000 hr	2 ⅜ in	Feit Electric	**56JH43**	1
	50W INC	6 W	3000K	450 lm	40 °	Yes	25,000 hr	2 ⅜ in	Feit Electric	**56JH44**	1
	50W INC	6 W	5000K	450 lm	40 °	Yes	25,000 hr	2 ⅜ in	Feit Electric	**56JH45**	1
Halogen	50W INC	50 W	2800K	430 lm	25°	Yes	2,000 hr	2 ⅞ in	Philips	**492Z37**	3
	50W HAL	50 W	2900K	900 lm	38°	Yes	2,000 hr	1 ⅞ in	Satco	**451F88**	1
	50W INC	50 W	3000K	6200 cbcp	10°	Yes	3,000 hr	1 ⅞ in	Philips	**492Z41**	1
MR16 Bulb Shape; 2-Pin (GU5.3) Bulb Base Type											
LED	20W INC	2.6 W	3000K	200 lm	38 °	Yes	25,000 hr	2 in	Feit Electric	**56JH36**	1
	20W INC	2.6 W	5000K	200 lm	38 °	Yes	25,000 hr	2 in	Feit Electric	**56JH37**	1
Halogen	20W INC	20 W	3000K	205 lm	36°	Yes	3,000 hr	1 ⅞ in	Philips	**492Z35**	1
LED	35W HAL	4.5 W	2700K	380 lm	12°	Yes	25,000 hr	1 ¾ in	Current	**55XC88**	1
	35W HAL	4.5 W	3000K	400 lm	35 °	Yes	25,000 hr	1 ¾ in	Current	**55XC89**	1
	35W HAL	4.5 W	4000K	400 lm	35 °	Yes	25,000 hr	1 ¾ in	Current	**55XC90**	1
	35W HAL	6.5 W	2700K	410 lm	25°	Yes	25,000 hr	1 ⅞ in	Philips	**38NF55**	1
	35W HAL	6.5 W	2700K	410 lm	35°	Yes	25,000 hr	1 ⅞ in	Philips	**38NF56**	1
Halogen	35W HAL	35 W	3700K	520 lm	36°	Yes	2,000 hr	1 ¾ in	Burton	**35FT94**	4
	35W HAL	35 W	3700K	520 lm	10°	Yes	2,000 hr	1 ¾ in	Burton	**35FV40**	4
LED	35W INC	4 W	3000K	300 lm	40 °	Yes	25,000 hr	2 in	Feit Electric	**793RA6**	1
	35W INC	4 W	5000K	300 lm	40 °	Yes	25,000 hr	2 in	Feit Electric	**56JH39**	1
	35W INC	7.8 W	3000K	480 lm	10 °	Yes	40,000 hr	1 ⅞ in	Philips	**56LX02**	1
Halogen	35W INC	35 W	3000K	540 lm	36°	Yes	3,000 hr	1 ¾ in	Philips	**492Z38**	1
LED	50W HAL	6 W	2700K	500 lm	35°	Yes	25,000 hr	1 ⅞ in	Current	**490Z34**	1
	50W HAL	6 W	2700K	500 lm	25°	Yes	25,000 hr	1 ⅞ in	Current	**490Z35**	1
	50W HAL	6.5 W	2700K	500 lm	25°	Yes	25,000 hr	1 ⅞ in	Current	**490Z24**	1
	50W HAL	6.5 W	2700K	500 lm	15°	Yes	25,000 hr	1 ⅞ in	Current	**490Z27**	1
	50W HAL	6.5 W	2700K	500 lm	35°	Yes	25,000 hr	1 ⅞ in	Current	**490Z31**	1
	50W HAL	6.5 W	2700K	485 lm	35°	Yes	25,000 hr	1 ⅞ in	Philips	**494L70**	1
	50W HAL	6.5 W	3000K	520 lm	25°	Yes	25,000 hr	1 ⅞ in	Current	**490Z25**	1
	50W HAL	6.5 W	3000K	520 lm	35°	Yes	25,000 hr	1 ⅞ in	Current	**490Z26**	1
	50W HAL	6.5 W	3000K	520 lm	15°	Yes	25,000 hr	1 ⅞ in	Current	**490Z28**	1
	50W HAL	6.5 W	3000K	530 lm	25°	Yes	25,000 hr	1 ¾ in	Current	**490Z36**	1
	50W HAL	6.5 W	3000K	485 lm	35°	Yes	25,000 hr	1 ⅞ in	Philips	**494L71**	1
	50W HAL	6.5 W	4000K	550 lm	15°	Yes	25,000 hr	1 ⅞ in	Current	**490Z29**	1
	50W HAL	6.5 W	4000K	550 lm	25°	Yes	25,000 hr	1 ⅞ in	Current	**490Z30**	1
	50W HAL	6.5 W	4000K	550 lm	35°	Yes	25,000 hr	1 ⅞ in	Current	**490Z32**	1
	50W INC	6.6 W	5000K	500 lm	40 °	Yes	25,000 hr	2 in	Feit Electric	**56JH38**	3
	50W HAL	7 W	3000K	700 lm	35 °	Yes	25,000 hr	1 ¾ in	Sylvania	**793EN5**	1
	50W HAL	7.3 W	2700K	515 lm	25°	Yes	25,000 hr	2 in	Philips	**494C70**	1
	50W HAL	7.3 W	2700K	515 lm	35°	Yes	25,000 hr	2 in	Philips	**494C71**	1
	50W HAL	7.3 W	3000K	515 lm	25°	Yes	25,000 hr	2 in	Philips	**494C72**	1
	50W HAL	7.3 W	3000K	515 lm	35°	Yes	25,000 hr	2 in	Philips	**494C73**	1
	50W HAL	8 W	3000K	620 lm	25°	Yes	25,000 hr	2 in	Philips	**494C76**	1
	50W HAL	8.5 W	2700K	600 lm	25°	Yes	25,000 hr	2 in	Philips	**494C74**	1
Halogen	50W INC	50 W	3000K	750 lm	36°	Yes	3,000 hr	1 ⅞ in	Philips	**492Z61**	1
	50W INC	50 W	3100K	850 lm	36°	Yes	3,000 hr	1 ¾ in	Philips	**492Z36**	1
	50W HAL	50 W	3100K	700 lm	10°	Yes	2,000 hr	1 ¾ in	Burton	**35FT81**	3
LED	75W HAL	8 W	2700K	600 lm	35°	Yes	25,000 hr	2 in	Philips	**494C75**	1
	75W HAL	8 W	3000K	620 lm	35°	Yes	25,000 hr	2 in	Philips	**494C77**	1
Halogen	Not Applicable	35 W	2900K	500 lm	36 °	Yes	2,000 hr	1 ¾ in	Sylvania	**60UA33**	1
	Not Applicable	50 W	2950K	700 lm	36 °	Yes	2,000 hr	1 ¾ in	Sylvania	**60UA21**	1
MR16 Bulb Shape; 2-Pin (GX10) Bulb Base Type											
Ceramic Metal Halide	20W MH	20 W	3000K	1,000 lm	12 °	No	12,000 hr	2 ⅜ in	Current	**1TJR7**	1
Metal Halide	20W MH	20 W	3000K	1,000 lm	25 °	No	15,000 hr	2 ½ in	Philips	**492Y36**	1
	20W MH	20 W	3000K	1,000 lm	10 °	No	15,000 hr	2 ½ in	Philips	**492Y37**	1
	20W MH	20 W	3000K	300 lm	35 °	No	4,000 hr	1 49/64 in	Sylvania	**56GK97**	1
	39W MH	39 W	3000K	2,200 lm	25 °	No	10,000 hr	2 ⅝ in	Current	**3DXR9**	1
MR16 Bulb Shape; 2-Pin (GX5.3) Bulb Base Type											
Halogen	20W INC	20 W	3000K	205 lm	36°	Yes	3,000 hr	1 ⅞ in	Philips	**492Z39**	3
	35W HAL	35 W	3300K	350 lm	40°	Yes	50 hr	1 ¾ in	Eiko	**6DZG7**	1
	150W HAL	150 W	3150K	5279 lm	45°	Yes	500 hr	1 ¾ in	Eiko	**6DZG4**	1
	150W HAL	150 W	3250K	900 lm	10°	Yes	200 hr	1 ¾ in	Eiko	**6DZL2**	1
	150W HAL	150 W	3400K	354 lm	45°	Yes	40 hr	1 ¾ in	Eiko	**6DZH0**	1
	250W HAL	250 W	3400K	800 lm	36°	Yes	50 hr	1 ¾ in	Eiko	**6DZL3**	1
MR16 Bulb Shape; 2-Pin Miniature (GY5.3) Bulb Base Type											
Halogen	360W HAL	360 W	3300K	460 lm	40°	Yes	75 hr	1 ¾ in	Eiko	**6DZG5**	1
MR16 Bulb Shape; Double Contact Bayonet (BA15d) Bulb Base Type											
LED	20W INC/5W CFL	2 W	3000K	55 lm	60°	No	25,000 hr	1 ⅜ in	LumaPro	**4LRG5**	1
MR16 Bulb Shape; Single Contact Bayonet (BA15s) Bulb Base Type											
LED	20W INC/5W CFL	2 W	3000K	55 lm	60°	No	25,000 hr	2 ½ in	LumaPro	**4LRG4**	1

LumaPro Current

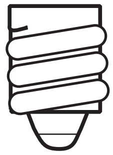
Screw-Base S-Shaped Miniature Light Bulbs

These light bulbs have a screw base that twists into a compatible socket.

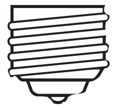
Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Candelabra Screw-Base S-Shaped Miniature Light Bulbs						
Candelabra Screw (E12) Bulb Base						
3S6/5/130V	S6	3W	130V AC	LumaPro	**4RZW2**	1
6S6	S6	6W	145V AC	LumaPro	**4RZW3**	1
	S6	6W	30V AC	LumaPro	**4RZY5**	1
	S6	6W	155V AC	Current	**4V753**	1
6S6/32V	S6	6W	32V AC	LumaPro	**4RZT4**	1
6S6/120V	S6	6W	120V AC	LumaPro	**4RZU5**	1
6S6/130V	S6	6W	130V AC	LumaPro	**4RZU6**	1
6S6/155V	S6	6W	155V AC	LumaPro	**4RZW4**	1
10S6	S6	10W	230V AC	LumaPro	**4RZY7**	1
	S6	10W	250V AC	LumaPro	**4RZY8**	1
—	S6	6.0	24	LumaPro	**4RZY4**	1
Intermediate Screw (E17) Bulb Base						
6S6/120V	S6	6W	120V AC	LumaPro	**4RZW8**	1
Miniature Screw-Base S-Shaped Miniature Light Bulbs						
Medium Screw (E26) Bulb Base						
11S14	S14	11W	130V AC	LumaPro	**4RZT9**	1
11S14 TR	S14	11W	130V AC	LumaPro	**4RZW9**	1
11S14 TY 130V	S14	11.0W	130V AC	LumaPro	**4RZX1**	1
15S14/GR/CL 130V	S14	15.0W	130V AC	LumaPro	**4RZU3**	1
15S14/IFBB	S14	15W	34V AC	LumaPro	**4RZT5**	1

4RZT4

4RZT5



Candelabra Screw (E12) Base



Medium Screw (E26) Base

LumaPro PHILIPS

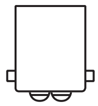
Bayonet-Base S-Shaped Miniature Light Bulbs

Bayonet-base miniature light bulbs are pushed into a compatible socket and then twisted. The bayonet base has lugs on either side that lock the bulb in place.

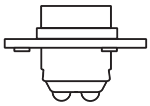
Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Appliance Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
312	S11	36.12W	28V AC	LumaPro	**2FMT7**	10
1724	S11	27.9W	6.2V AC	LumaPro	**3EHL3**	1
Single Contact Bayonet (BA15s) Bulb Base						
18S11	S11	18W	10	LumaPro	**4RZY6**	1
311	S11	36 W	28	LumaPro	**21U554**	1
	S11	36.12W	28V AC	LumaPro	**2FLZ1**	10
Double-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
6S6DC	S6	6W	75V AC	LumaPro	**4RZU2**	1
	S6	6W	120V AC	LumaPro	**4RZW5**	1
	S6	6W	130V AC	LumaPro	**4RZW6**	1
10S6DC/230V	S6	10W	230V AC	LumaPro	**4RZU1**	1
15S11/3DC-75V	S11	15W	75V AC	LumaPro	**475G28**	1
88	S8	12.988W	6.8V AC	LumaPro	**2FMC2**	10
	S8	13.0	6.8	LumaPro	**21U526**	1
94	S8	13.312W	12.8V AC	LumaPro	**21U530**	1
	S8	13.312W	12.8V AC	LumaPro	**2FMD6**	10
306	S8	14.28W	28V AC	LumaPro	**21U551**	1
	S8	14.28W	28V AC	LumaPro	**2FLZ8**	10
308	S8	18.76W	28V AC	LumaPro	**21U553**	1
	S8	18.76W	28V AC	LumaPro	**2FMF3**	10
1076	S8	23.04W	12.8V AC	LumaPro	**2FMG6**	10
	S8	23	12.8	LumaPro	**21U594**	1
1130	S8	16.832W	6.4V AC	LumaPro	**3EHK6**	10
1142	S8	18.43W	12.8V AC	LumaPro	**2FMG4**	10
	S8	18.0	12.8	LumaPro	**21U597**	1
1156DC	S8	26.88W	12.8V AC	LumaPro	**3EHK7**	10
1176	S8	8.26/17.15W	12.8/14V AC	LumaPro	**21U607**	1
	S8	8.26/17.15W	12.8/14V AC	LumaPro	**2FLU9**	10
1204	S8	19.88W	28V AC	LumaPro	**3EHK8**	10
1228	S8	14.4W	32V AC	LumaPro	**3EHK9**	10
1229	S8	15.2W	40V AC	LumaPro	**21U609**	1
	S8	15.2W	40V AC	LumaPro	**2FLT2**	10
1493	S8	17.875W	6.5V AC	LumaPro	**2FMA8**	10
1612	S8	10.04W	5.4V AC	LumaPro	**475G23**	1
1638	S8	28.56W	28V AC	LumaPro	**21U619**	1
	S8	28.56W	28V AC	LumaPro	**2FMC6**	10
1692	S8	17.08W	28V AC	LumaPro	**21U623**	1
	S8	17.08W	28V AC	LumaPro	**2FMA3**	10
7528 (P21/5W)	S8	5/21W	12.8/12V AC	LumaPro	**21U661**	2
Double Contact Index (BAY15d) Bulb Base						
1662	S8	9.52/25.2W	28/28V AC	LumaPro	**21U620**	1
	S8	9.52/25.2W	28/28V AC	LumaPro	**2FLZ7**	10
7528 (P21/5W)	S8	5/21W	12.8/12V AC	LumaPro	**12A783**	10
Double Contact Prefocus A (P15d30A) Bulb Base						
1460	S8	18W	6.5V AC	LumaPro	**2FMA7**	1
1460X	S8	18W	6.5V AC	LumaPro	**2FMA5**	1
1630	S8	18W	6.5V AC	LumaPro	**2FMP6**	1
1631X	S8	18W	6.5V AC	LumaPro	**2FLR9**	1
1634	S8	20W	20V AC	LumaPro	**2FLR5**	1

2FMT7

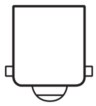
21U529



Double Contact Bayonet (BA15d) Base



Double Contact Prefocus A (P15d30A) Bulb Base



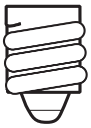
Single Contact Bayonet (BA15s) Base

Trade No.	Bulb Shape	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Single-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
Double Contact Bayonet (BA15d) Bulb Base						
199	S8	29	12.8	LumaPro	**21U542**	1
Single Contact Bayonet (B15) Bulb Base						
BC9/12/2	S8	13W	12V AC	Philips	**492Z94**	2
Single Contact Bayonet (BA15s) Bulb Base						
25S11/4SC-10V-1PK	S11	25W	10V AC	LumaPro	**475G32**	1
93	S8	13.312W	12.8V AC	LumaPro	**21U529**	1
	S8	13.312W	12.8V AC	LumaPro	**2FMF8**	10
199	S8	28.8W	12.8V AC	LumaPro	**2FLY7**	10
305	S8	14.28W	28V AC	LumaPro	**21U550**	1
	S8	14.28W	28V AC	LumaPro	**2FMB1**	10
307	S8	18.76W	28V AC	LumaPro	**21U552**	1
	S8	18.76W	28V AC	LumaPro	**2FMB5**	10
1073	S8	23.04W	12.8V AC	LumaPro	**21U593**	1
	S8	23.04W	12.8V AC	LumaPro	**2FMC8**	10
1129	S8	16.832W	6.4V AC	LumaPro	**2FMD2**	10
1141	S8	18.4W	12.8V AC	LumaPro	**21U596**	2
	S8	18.4W	12.8V AC	LumaPro	**2FMF4**	10
1203	S8	19.88W	28V AC	LumaPro	**2FLV7**	10
1295	S8	37.5W	12.5V AC	LumaPro	**2FMV8**	10
1295NA	S8	38	12.5	LumaPro	**21U611**	1
1591	S8	17.08W	28V AC	LumaPro	**21U616**	1
	S8	17.08W	28V AC	LumaPro	**2FLX5**	10
1619	S8	12.73W	6.7V AC	LumaPro	**2FLW8**	10
1651	S8	3W	5V AC	LumaPro	**2FMW3**	10
1665	S8	22	28	LumaPro	**21U621**	1
	S8	22.4W	28V AC	LumaPro	**2FLT7**	10
1683	S8	29	28	LumaPro	**21U622**	1
	S8	28.56W	28V AC	LumaPro	**2FLY5**	10
1691	S8	17.08W	28V AC	LumaPro	**2FLV8**	10
2232	S8	17.92W	28V AC	LumaPro	**21U642**	1
	S8	17.92W	28V AC	LumaPro	**2FMR2**	10
2233	S8	22.4W	28V AC	LumaPro	**21U643**	1
	S8	22.4W	28V AC	LumaPro	**2FMR4**	10
7506 (P21W)	S8	21W	12V AC	LumaPro	**21U663**	2
7507	S8	21W	12V AC	LumaPro	**2FMX9**	10
7511 (P21W 24V)	S8	21W	24V AC	LumaPro	**21U662**	1
	S8	21W	24V AC	LumaPro	**12A785**	10

LumaPro Current PHILIPS SYLVANIA

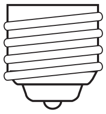
Screw-Base T-Shaped Miniature Light Bulbs

The screw base on these light bulbs twists into a compatible socket.



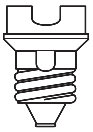
Candelabra Screw (E12) Base

39P450



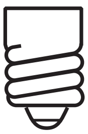
Intermediate Screw (E17) Base

493A22



Miniature Candelabra Screw (E11) Base

2V701



Miniature Screw (E10) Base

26CU06

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
Candelabra Screw-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-45	T4	Candelabra Screw (E12)	0.3W	105 to 125V AC	—	LumaPro	**2FNB7**	10
LED								
L2012CS-W	T6	Candelabra Screw (E12)	0.2W	12V AC	White	LumaPro	**39P452**	1
L2024CS-R	T6	Candelabra Screw (E12)	0.4W	24V AC	Red	LumaPro	**39P453**	1
L2024CS-W	T6	Candelabra Screw (E12)	0.4W	24V AC	White	LumaPro	**39P454**	1
L20120CS-W	T6	Candelabra Screw (E12)	1.2W	120V AC	White	LumaPro	**39P450**	1
L20120CS-WW	T6	Candelabra Screw (E12)	1.2W	120V AC	Warm White	LumaPro	**39P451**	1
LM2006CS-R	T6	Candelabra Screw (E12)	0.72W	6.3V AC	Red	LumaPro	**2FNV7**	1
LM2006CS-W	T6	Candelabra Screw (E12)	0.72W	6.3V AC	White	LumaPro	**2FNV8**	1
LM2006CS-WW	T6	Candelabra Screw (E12)	0.72W	6.3V AC	Warm White	LumaPro	**2FNV9**	1
LM2024CS-A	T6	Candelabra Screw (E12)	0.72W	24V AC	Amber	LumaPro	**2FNY7**	1
LM2024CS-B	T6	Candelabra Screw (E12)	0.72W	24V AC	Blue	LumaPro	**2FNY8**	1
LM2024CS-G	T6	Candelabra Screw (E12)	0.72W	24V AC	Green	LumaPro	**2FNY9**	1
LM2030CS-A	T6	Candelabra Screw (E12)	0.72W	30V AC	Amber	LumaPro	**2FNZ4**	1
LM2030CS-G	T6	Candelabra Screw (E12)	0.72W	30V AC	Green	LumaPro	**2FNZ6**	1
LM2030CS-W	T6	Candelabra Screw (E12)	0.72W	30V AC	White	LumaPro	**2FNZ8**	1
LM2030CS-WW	T6	Candelabra Screw (E12)	0.72W	30V AC	Warm White	LumaPro	**2FNZ9**	1
LM2048CS-B	T6	Candelabra Screw (E12)	0.72W	48V AC	Blue	LumaPro	**2FPA2**	1
LM2048CS-G	T6	Candelabra Screw (E12)	0.72W	48V AC	Green	LumaPro	**2FPA3**	1
LM2048CS-R	T6	Candelabra Screw (E12)	0.72W	48V AC	Red	LumaPro	**2FPA4**	1
LM2060CS-A	T6	Candelabra Screw (E12)	0.72W	60V AC	Amber	LumaPro	**2FPA7**	1
LM2060CS-WW	T6	Candelabra Screw (E12)	0.72W	60V AC	Warm White	LumaPro	**2FPB3**	1
LM2075CS-A	T6	Candelabra Screw (E12)	0.72W	75V AC	Amber	LumaPro	**2FPB4**	1
LM2075CS-B	T6	Candelabra Screw (E12)	0.72W	75V AC	Blue	LumaPro	**2FPB5**	1
LM2075CS-WW	T6	Candelabra Screw (E12)	0.72W	75V AC	Warm White	LumaPro	**2FPB9**	1
LM20120CS-A	T6	Candelabra Screw (E12)	0.72W	120V AC	Amber	LumaPro	**2FNW1**	1
LM20120CS-B	T6	Candelabra Screw (E12)	0.72W	120V AC	Blue	LumaPro	**2FNW2**	1
LM20145CS-B	T6	Candelabra Screw (E12)	0.72W	145V AC	Blue	LumaPro	**2FNX5**	1
LM20145CS-G	T6	Candelabra Screw (E12)	0.72W	145V AC	Green	LumaPro	**2FNX6**	1
LM20145CS-R	T6	Candelabra Screw (E12)	0.72W	145V AC	Red	LumaPro	**2FNX7**	1
LM20145CS-W	T6	Candelabra Screw (E12)	0.72W	145V AC	White	LumaPro	**2FNX8**	1
LM20145CS-WW	T6	Candelabra Screw (E12)	0.72W	145V AC	Warm White	LumaPro	**2FNX9**	1
LM20220CS-A	T6	Candelabra Screw (E12)	0.72W	220V AC	Amber	LumaPro	**2FNY1**	1
LM20220CS-B	T6	Candelabra Screw (E12)	0.72W	220V AC	Blue	LumaPro	**2FNY2**	1
LM20220CS-W	T6	Candelabra Screw (E12)	0.72W	220V AC	White	LumaPro	**2FNY5**	1
LM20220CS-WW	T6	Candelabra Screw (E12)	0.72W	220V AC	Warm White	LumaPro	**2FNY6**	1
Incandescent								
6S6/120V	S6	Candelabra Screw (E12)	6W	120V AC	—	LumaPro	**475G26**	1
6T4 1/2/1	T4-1/2	Candelabra Screw (E12)	6W	130V AC	—	Current	**4V766**	1
15T6	T6	Candelabra Screw (E12)	15W	145V AC	—	Current	**4V450**	1
15T6 140/24/1	T6	Candelabra Screw (E12)	15W	140 to 150V AC	—	Philips	**493A10**	1
15T6-145V	T6	Candelabra Screw (E12)	15W	145V AC	—	LumaPro	**4RZU7**	1
15T6-130V	T6	Candelabra Screw (E12)	15W	130V AC	—	LumaPro	**4RZT6**	1
15T7C	T7	Candelabra Screw (E12)	15W	120V AC	—	Current	**4V820**	1
15T7C/TR-120V	T7	Candelabra Screw (E12)	15W	120V AC	—	LumaPro	**4RZX2**	1
BC15T6C/TP/12/1	T6	Candelabra Screw (E12)	15W	120V AC	—	Philips	**493A09**	1
BC15T7C/6/1	T7	Candelabra Screw (E12)	15W	120V AC	—	Philips	**493A13**	1
Halogen								
Q250CL/MC	T4	Candelabra Screw (E12)	250W	130V AC	—	Current	**4V483**	1
Intermediate Screw-Base T-Shaped Miniature Light Bulbs								
Incandescent								
15T7N/120V	T7	Intermediate Screw (E17)	15W	120V AC	—	LumaPro	**4RZU8**	1
20T6-1/2/IF/24PK	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	Philips	**493A11**	1
20T6 1/2/F	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	Current	**4V479**	1
20T6 1/2N/120V	T6-1/2	Intermediate Screw (E17)	20W	120V AC	—	LumaPro	**4RZV8**	1
25T6-1/2	T6	Intermediate Screw (E17)	25W	130V AC	—	LumaPro	**4RZV3**	1
25T6-1/2 120V	T6	Intermediate Screw (E17)	25W	120V AC	—	LumaPro	**4RZV2**	1
25T6-1/2F 130V	T6	Intermediate Screw (E17)	25W	130V AC	—	LumaPro	**4RZV4**	1
25T6 1/2/F	T6-1/2	Intermediate Screw (E17)	25W	130V AC	—	—	**21YM04**	1
25T7N 120V	T7	Intermediate Screw (E17)	25W	120V AC	—	LumaPro	**4RZV9**	1
25T8N	T8	Intermediate Screw (E17)	25W	120V AC	—	Current	**4V645**	1
40T6-1/2 120V	T6	Intermediate Screw (E17)	40W	120V AC	—	LumaPro	**4RZX5**	1
40T6-1/2 130V	T6	Intermediate Screw (E17)	40W	130V AC	—	LumaPro	**4RZW1**	1
BC25T6-1/2 120/6/1 TP	T6-1/2	Intermediate Screw (E17)	25W	120V AC	—	Philips	**493A12**	1
BC25T7N /6/1 TP	T7	Intermediate Screw (E17)	25W	120V AC	—	Philips	**493A14**	1
BC40T8N/6/1 TP	T8	Intermediate Screw (E17)	40W	120V AC	—	Philips	**493A22**	1
Not Applicable	T8	Intermediate Screw (E17)	25 W	120 V AC	—	Sylvania	**60UA55**	1
Miniature Candelabra Screw-Base T-Shaped Miniature Light Bulbs								
Halogen								
100Q/CL/DC	T4	Double Contact Bayonet Base (BA15D)	100W	120V AC	—	Philips	**492Z55**	1
150Q/CL	T4	Miniature Candelabra Screw (E11)	150W	120V AC	—	Philips	**492Z53**	1
58762	T12	Miniature Screw (E11)	250 W	120 V AC	—	Sylvania	**60UA67**	1
EHT	T4	Miniature Candelabra Screw (E11)	250W	120V AC	—	Current	**2V265**	1
ETG	T4	Miniature Candelabra Screw (E11)	150W	120V AC	—	Current	**2V701**	1
MINICAN 100W/CL	T4	Glass Wedge (W2.1x4.9d)	100W	120V AC	—	Philips	**492Z57**	1
Q100CL/MC	T4	Miniature Candelabra Screw (E11)	100W	120V AC	—	Current	**6V701**	1
Miniature Screw-Base T-Shaped Miniature Light Bulbs								
LED								
L1024MS-A	T3-1/4	Miniature Screw (E10)	0.4W	24V AC	Amber	LumaPro	**39P456**	1
L1024MS-R	T3-1/4	Miniature Screw (E10)	0.4W	24V AC	Red	LumaPro	**39P457**	1
L1024MS-W	T3-1/4	Miniature Screw (E10)	0.42W	24V AC	—	LumaPro	**26CU06**	1
L2024CS-WW	T6	Miniature Screw (E10)	0.7W	24V AC	—	LumaPro	**26CT97**	1
L20120CS-G	T6	Miniature Screw (E10)	0.7W	120V AC	—	LumaPro	**26CT99**	1
L20120CS-R	T6	Miniature Screw (E10)	0.7W	120V AC	—	LumaPro	**26CT98**	1
LM1006MS-B	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	Blue	LumaPro	**2FNH8**	1
LM1006MS-R	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	Red	LumaPro	**2FNJ1**	1
LM1006MS-W	T3-1/4	Miniature Screw (E10)	0.47W	6.30V AC	White	LumaPro	**2FNJ2**	1
LM1012MS-B	T3-1/4	Miniature Screw (E10)	0.1W	12V DC	Blue	LumaPro	**2FNL5**	1
LM1012MS-G	T3-1/4	Miniature Screw (E10)	0.1W	12V DC	Green	LumaPro	**2FNL6**	1
LM1012MS-R	T3-1/4	Miniature Screw (E10)	0.1W	12V DC	Red	LumaPro	**2FNL7**	1
LM1012MS-W	T3-1/4	Miniature Screw (E10)	0.1W	12V DC	White	LumaPro	**2FNL8**	1
Incandescent								
40	T3-1/4	Miniature Screw (E10)	0.945W	6.3V AC	—	LumaPro	**2FMR6**	10
46	T3-1/4	Miniature Screw (E10)	1.575W	6.3V AC	—	LumaPro	**2FMR7**	10
1477	T3	Miniature Screw (E10)	4.08W	24V AC	—	LumaPro	**2FMW2**	10
1487	T3-1/4	Miniature Screw (E10)	2.8W	14V AC	—	LumaPro	**2FMG1**	10
1821	T3-1/4	Miniature Screw (E10)	4.76W	28V AC	—	LumaPro	**2FMW5**	10
1823	T3-1/4	Miniature Screw (E10)	4.8W	48V AC	Clear	LumaPro	**3EHL5**	10
Halogen								
58736	T12	Miniature Screw (E10)	150 W	120 V AC	—	Sylvania	**60UA54**	1

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base T-Shaped Miniature Light Bulbs								
Incandescent								
15T7DC-120V	T7	Double Contact Bayonet (BA15d)	15W	120V AC	Clear	LumaPro	**4RZU4**	1
20T6 1/2DC/F	T6-1/2	Double Contact Bayonet (BA15d)	20W	120V AC	—	Current	**4V996**	1
20T6 ½	T6-1/2	Double Contact Bayonet (BA15d)	20W	120	—	LumaPro	**4RZX8**	1
25T6-1/2 DC/ IF 130V	T6	Double Contact Bayonet (BA15d)	25W	130V AC	—	LumaPro	**4RZX3**	1
25T6-1/2 DC 120V	T6	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	**4RZU9**	1
25T7DC/120V	T7	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	**475G27**	1
25T8DC-120V	T8	Double Contact Bayonet (BA15d)	25W	120V AC	—	LumaPro	**4RZV5**	1
120PSB	T2	Tel. Slide No. 5	3W	120V AC	—	LumaPro	**55VR91**	10
Halogen								
ESS	T4	Double Contact Bayonet (BA15d)	250W	120V AC	—	Current	**2V703**	1
ETC	T4	Double Contact Bayonet (BA15d)	150W	120V AC	—	Current	**2V702**	1
Q100CL/DC	T4	Double Contact Bayonet (BA15d)	100W	120V AC	—	Current	**1E362**	1
Miniature Bayonet-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-51	T3	Miniature Bayonet (BA9s)	0.1W	105 to 125V AC	—	LumaPro	**2FNB5**	10
NE-51H	T3	Miniature Bayonet (BA9s)	0.3W	105 to 125V AC	—	LumaPro	**2FNB6**	10
LED								
L24V-MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Amber	LumaPro	**2FNP4**	1
L24V-MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Blue	LumaPro	**2FNP5**	1
L24V-MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V AC	Green	LumaPro	**2FNP6**	1
L24V-MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.7W	24V	White	LumaPro	**2FNP8**	1
L120V-MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Blue	LumaPro	**2FNK2**	1
L1006MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	Green	LumaPro	**2FNH3**	1
L1006MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	—	LumaPro	**26CT96**	1
	T3-1/4	Miniature Bayonet (BA9s)	0.072W	6V AC	Red	LumaPro	**2FNH4**	1
L1006MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.3W	6V AC	White	LumaPro	**39P458**	1
L1006MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.3W	6V AC	Warm White	LumaPro	**39P459**	1
L1024MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.3W	24V AC	—	LumaPro	**26CU07**	1
L1060MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	—	LumaPro	**26CU05**	1
L1060MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	—	LumaPro	**26CU01**	1
L10120MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.8W	120V AC	Green	LumaPro	**39P455**	1
L10120MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.84W	120V AC	—	LumaPro	**26CU03**	1
L10160MB-W	T3-1/4	Miniature Bayonet (BA9s)	1.12W	160V AC	—	LumaPro	**26CU02**	1
LM1006MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.47W	6.30V AC	Amber	LumaPro	**2FNH1**	1
LM1006MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.47W	6.30V AC	Blue	LumaPro	**2FNH2**	1
LM1012MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V DC	Amber	LumaPro	**2FNK7**	1
LM1012MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V DC	Green	LumaPro	**2FNK9**	1
LM1012MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V DC	Red	LumaPro	**2FNL1**	1
LM1012MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V DC	White	LumaPro	**2FNL2**	1
LM1012MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.1W	12V DC	Warm White	LumaPro	**2FNL3**	1
LM1048MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Blue	LumaPro	**2FNT5**	1
LM1048MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Green	LumaPro	**2FNT6**	1
LM1048MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Red	LumaPro	**2FNT7**	1
LM1048MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	White	LumaPro	**2FNT8**	1
LM1048MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	48V AC	Warm White	LumaPro	**2FNT9**	1
LM1060MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	Blue	LumaPro	**2FNU2**	1
LM1060MB-W	T3-1/4	Miniature Bayonet (BA9s)	0.72W	60V AC	White	LumaPro	**2FNU5**	1
LM1090MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Amber	LumaPro	**2FNU7**	1
LM1090MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Red	LumaPro	**2FNV1**	1
LM1090MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	90V AC	Warm White	LumaPro	**2FNV3**	1
LM10120MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Amber	LumaPro	**2FNK1**	1
LM10120MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.7W	120V AC	Warm White	LumaPro	**2FNK6**	1
LM10160MB-A	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Amber	LumaPro	**2FNN7**	1
LM10160MB-B	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Blue	LumaPro	**2FNN8**	1
LM10160MB-G	T3-1/4	Miniature Bayonet (BA9s)	0.7W	160V AC	Green	LumaPro	**2FNN9**	1
LM10160MB-R	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Red	LumaPro	**2FNP1**	1
LM10160MB-WW	T3-1/4	Miniature Bayonet (BA9s)	0.72W	160V AC	Warm White	LumaPro	**2FNP3**	1
Incandescent								
24MB	T2-1/2	Miniature Bayonet (BA9s)	1.68W	24V AC	—	LumaPro	**3HGE5**	10
28MB	T2-1/2	Miniature Bayonet (BA9s)	1.12W	28V AC	Clear	LumaPro	**2EKU2**	10
43	T3-1/4	Miniature Bayonet (BA9s)	1.25W	2.5V AC	—	LumaPro	**2FMA1**	10
44	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	**2FMP2**	10
47	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	**21U518**	1
	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	**2FML7**	10
60MB	T2-1/2	Miniature Bayonet (BA9s)	3W	60V AC	—	LumaPro	**21U510**	1
	T2-1/2	Miniature Bayonet (BA9s)	3W	60V AC	Clear	LumaPro	**2EKU6**	10
120MB	T2-1/2	Miniature Bayonet (BA9s)	3W	120V AC	Clear	LumaPro	**2EKV1**	10
120MB-1	T2-1/2	Miniature Bayonet (BA9s)	0.1W	120V AC	—	LumaPro	**4VCW4**	1
130MB	T2	Miniature Bayonet (BA9s)	3.25W	130V AC	—	LumaPro	**3EHJ8**	10
313	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	**2FML9**	10
316	T3-1/4	Miniature Bayonet (BA9s)	4.2W	6V AC	—	LumaPro	**2FLY1**	10
755	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	**2FMR1**	10
	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	—	LumaPro	**4VCW2**	1
756	T3-1/4	Miniature Bayonet (BA9s)	1.12W	14V AC	—	LumaPro	**2FMN1**	10
756-1	T3-1/4	Miniature Bayonet (BA9s)	0.1W	14V AC	—	LumaPro	**4VCW3**	1
757	T3-1/4	Miniature Bayonet (BA9s)	2.24W	28V AC	—	LumaPro	**2FMP7**	10
767	T2-1/4	Miniature Bayonet (BA9s)	12W	6V AC	—	LumaPro	**5DTN6**	1
1408	T3-1/4	Miniature Bayonet (BA9s)	1.3W	10V AC	—	LumaPro	**2FMG5**	10
1488	T3-1/4	Miniature Bayonet (BA9s)	2.1W	14V AC	Clear	LumaPro	**3EHL2**	10
1495	T4-1/2	Miniature Bayonet (BA9s)	8.4W	28V AC	Clear	LumaPro	**2EKW5**	10
1810	T3-1/4	Miniature Bayonet (BA9s)	2.52W	6.3V AC	Clear	LumaPro	**2FMW4**	10
1813	T3-1/4	Miniature Bayonet (BA9s)	1.44W	14.4V AC	—	LumaPro	**2FMB4**	10
1815	T3-1/4	Miniature Bayonet (BA9s)	2.8W	14V AC	—	LumaPro	**21U625**	1
1816	T3-1/4	Miniature Bayonet (BA9s)	4.29W	13V AC	—	LumaPro	**2FMF6**	10
1818	T3-1/4	Miniature Bayonet (BA9s)	4.08W	24V AC	—	LumaPro	**21U627**	1
	T3-1/4	Miniature Bayonet (BA9s)	4.08W	24V AC	—	LumaPro	**2FMK6**	10
1819	T3-1/4	Miniature Bayonet (BA9s)	1.12W	28V AC	—	LumaPro	**2FMP9**	10
1820	T3-1/4	Miniature Bayonet (BA9s)	2.8W	28V AC	—	LumaPro	**2FMP5**	10
1822	T3-1/4	Miniature Bayonet (BA9s)	3.6W	36V AC	—	LumaPro	**21U630**	1
1828	T3-1/4	Miniature Bayonet (BA9s)	1.875W	37.5V AC	—	LumaPro	**21U631**	1
1829	T3-1/4	Miniature Bayonet (BA9s)	1.96W	28V AC	—	LumaPro	**2FMN8**	10
1835	T3-1/4	Miniature Bayonet (BA9s)	2.75W	55V AC	—	LumaPro	**2FMN9**	10
1843	T3-1/4	Miniature Bayonet (BA9s)	0.616W	28V AC	Clear	LumaPro	**2FMB2**	10
1847	T3-1/4	Miniature Bayonet (BA9s)	0.945W	6.3V AC	Clear	LumaPro	**2FMH9**	10

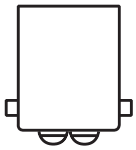
LumaPro® Current

Bayonet-Base T-Shaped Miniature Light Bulbs

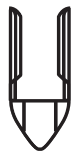
Bayonet-base miniature light bulbs are pushed into a compatible socket and then twisted. The bayonet base has lugs on either side that lock the bulb in place.

475G27

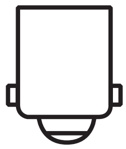
2EKU2



Double Contact Bayonet (BA15d) Base



Tel. Slide No. 5 Base



Miniature Bayonet (BA9s) Base

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Bayonet-Base T-Shaped Miniature Light Bulbs

LumaPro Current

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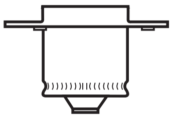
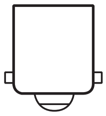


Single Contact Miniature Flanged (P13.5s) Base



Single Contact Bayonet (BA15s) Base

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Color	Brand	Item No.	Pkg. Qty.
1850	T3-1/4	Miniature Bayonet (BA9s)	0.45W	5V AC	—	LumaPro	**2FMG7**	10
1864	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	**21U633**	1
	T3-1/4	Miniature Bayonet (BA9s)	4.76W	28V AC	—	LumaPro	**2FML5**	10
1866	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	**21U634**	1
	T3-1/4	Miniature Bayonet (BA9s)	1.575W	6.3V AC	—	LumaPro	**2FML4**	10
1873	T3-1/4	Miniature Bayonet (BA9s)	5.6W	28V AC	—	LumaPro	**21U635**	1
	T3-1/4	Miniature Bayonet (BA9s)	5.6W	28V AC	Clear	LumaPro	**2FMD7**	10
1888	T3-1/4	Miniature Bayonet (BA9s)	3.5W	7V AC	Clear	LumaPro	**2FMW6**	10
1889	T3-1/4	Miniature Bayonet (BA9s)	3.78W	14V AC	Clear	LumaPro	**2FMW7**	10
1891	T3-1/4	Miniature Bayonet (BA9s)	3.36W	14V AC	Clear	LumaPro	**2FMD3**	10
1892	T3-1/4	Miniature Bayonet (BA9s)	1.728W	14.4V AC	—	LumaPro	**2FMJ2**	10
1893	T3-1/4	Miniature Bayonet (BA9s)	4.62W	14V AC	—	LumaPro	**21U638**	2
	T3-1/4	Miniature Bayonet (BA9s)	4.62W	14V AC	Clear	LumaPro	**2FMD4**	10
Halogen								
1815	T3-1/4	Miniature Bayonet (BA9s)	2.8W	14V AC	—	LumaPro	**2FMJ8**	10
1822	T3-1/4	Miniature Bayonet (BA9s)	3.6W	36V AC	—	LumaPro	**2FMJ9**	10
1828	T3-1/4	Miniature Bayonet (BA9s)	1.875W	37.5V AC	—	LumaPro	**2FMJ7**	10
Single-Contact Bayonet-Base T-Shaped Miniature Light Bulbs								
Neon								
NE-2D	T2	Single Contact Miniature Flanged (P13.5s)	0.3W	105 to 125V AC	—	LumaPro	**2FNC1**	10
Incandescent								
327	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMN6**	10
328	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.2W	6V AC	—	LumaPro	**2FMF5**	10
330	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**21U559**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**2FME7**	10
338	T1-3/4	Single Contact Miniature Flanged (P13.5s)	0.162W	2.7V AC	—	LumaPro	**2FMT9**	10
376	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.68W	28V AC	—	LumaPro	**2FMU3**	10
381	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.26W	6.3V AC	—	LumaPro	**21U562**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.26W	6.3V AC	Clear	LumaPro	**2FME8**	10
382	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	14V AC	—	LumaPro	**2FMK4**	10
385	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMH6**	10
387	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1W	28V AC	Clear	Current	**1C886**	1
	T1-3/4	Single Contact Miniature Flanged (P13.5s)	1.12W	28V AC	—	LumaPro	**2FMP4**	10
1876	T5	Single Contact Bayonet (BA15s)	8.75W	3.5V AC	Clear	LumaPro	**2FLU4**	10
3497	T6	Single Contact Bayonet (BA15s)	26.4W	12.8V AC	—	LumaPro	**3EHN3**	1
5007	T6	Single Contact Bayonet (BA15s)	5W	12V AC	Clear	LumaPro	**2FMX3**	10
Halogen								
795	T4	Single Contact Bayonet (BA15s)	50W	12V AC	Clear	LumaPro	**2EKV7**	1

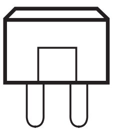
EiKO CERTIFIED GREEN Current PHILIPS LumaPro

2-Pin Base T-Shaped Miniature Light Bulbs

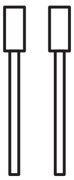
These miniature light bulbs have two pins on the bottom of their base and are pushed into a compatible socket to install. The base type for each bulb has a number that indicates the distance between the pins, in millimeters. For example, a G4 base has two pins that are spaced 4mm apart.

6DZN7

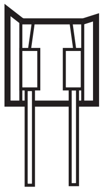
475G43



2-Pin Medium (G9.5) Base



2-Pin (G4) Base



2-Pin (GY6.35) Base

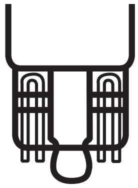
Trade No.	Bulb Shape	Base Type	Watts	Voltage	Brand	Item No.	Pkg. Qty.
2-Pin Medium Base T-Shaped Miniature Light Bulbs							
Halogen							
02170	T5	2-Pin Medium (G9.5)	750W	120V AC	Eiko	**6DZK7**	1
03240	T6	2-Pin Medium (G9.5)	1000W	120V AC	Eiko	**6DZN7**	1
03475	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZP4**	1
10415	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZR4**	1
10416	T6	2-Pin Medium (G9.5)	575W	115V AC	Eiko	**6DZR6**	1
FEL-Q1000/4CL	T6	2-Pin Medium (G9.5)	1000W	120V AC	Current	**4V251**	1
2-Pin Base T-Shaped Miniature Light Bulbs							
LED							
1T3/LED/830/G4/ND/12V 6/1BC	T3	2-Pin (G4)	1 W	12 V AC	Philips	**54YP65**	1
2T3/LED/830/G4/ND 12V 6/1BC	T3	2-Pin (G4)	2 W	12 V AC	Philips	**54YP66**	1
G9LED	T5	2-Pin (G9)	1.56W	120V AC	LumaPro	**475G33**	1
Incandescent							
7387	T1-3/4	2-Pin (M-23)	1W	28V AC	LumaPro	**21U498**	1
Halogen							
778	T2-3/4	2-Pin (G4)	20W	6V AC	LumaPro	**5DTN8**	1
780	T2-3/4	2-Pin (G4)	12W	12V AC	LumaPro	**5DTN9**	1
782	T2-3/4	2-Pin (G4)	20W	12V AC	LumaPro	**5DTP0**	1
783	T2-1/4	2-Pin (G4)	12W	12V AC	LumaPro	**5DTP1**	1
785	T2-1/4	2-Pin (G4)	8W	6V AC	LumaPro	**5DTP3**	1
786	T2-1/4	2-Pin (G4)	12W	6V AC	LumaPro	**5DTP4**	1
787	T2-1/4	2-Pin (G4)	10W	6V AC	LumaPro	**2FMH1**	1
788	T2-1/4	2-Pin (G4)	20W	6V AC	LumaPro	**5DTP5**	1
789	T2-3/4	2-Pin (G4)	14W	12V AC	LumaPro	**5DTP6**	1
790	T2-3/4	2-Pin (G4)	25W	14V AC	LumaPro	**5DTP7**	1
891	T3	2-Pin (G4)	8W	12V AC	LumaPro	**2FMV2**	1
BC50W/T4/LAND/TP/CAPSULE	T4	2-Pin (GY6.35)	50W	12V AC	Philips	**492Z65**	4
CAPFIGHT/10W/G4	T3	2-Pin (G4)	10W	12V AC	Philips	**492Z64**	2
CAPSL/20W G4/CL	T3	2-Pin (G4)	20W	12V AC	Philips	**492Z62**	2
CAPSULE/75W GY6.35	T4	2-Pin (GY6.35)	75W	12V AC	Philips	**492Z60**	1
Q5T3/CL	T3	2-Pin (G4)	5W	12V AC	LumaPro	**475G43**	1
Q25G9/CD-60W	T4	2-Pin (G9)	60W	120V AC	LumaPro	**475G40**	1
Q25G9/CD-40W	T4	2-Pin (G9)	40W	120V AC	LumaPro	**475G38**	1
Q25G9/CD-25W	T4	2-Pin (G9)	25W	120V AC	LumaPro	**475G39**	1
Q35T3/12V/CL	T3	2-Pin (GY6.35)	35W	12V AC	LumaPro	**475G37**	1
Q50G8/SCD	T4	2-Pin (G8)	50W	120V AC	LumaPro	**475G46**	1
Q50T3/12V/CL	T3	2-Pin (GY6.35)	50W	12V AC	LumaPro	**475G41**	1
Q50T3/CL/SCD	T3	2-Pin (G8)	50W	12V AC	LumaPro	**475G44**	1
Q100T3/12V/CL	T3	2-Pin (GY6.35)	100W	12V AC	LumaPro	**475G45**	1
Q100T3/24V/CL	T4	2-Pin (GY6.35)	100W	24V AC	LumaPro	**475G42**	1

LumaPro PHILIPS EIKO Current

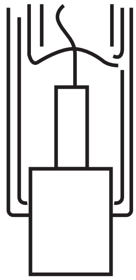
Wedge-Base T-Shaped Miniature Light Bulbs

Wedge-base T-shaped miniature light bulbs have a glass or plastic base with lamp filaments that extend out the bottom. The bulbs are pushed into a compatible socket to install.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Light Color	Brand	Item No.	Pkg. Qty.
Glass Wedge-Base T-Shaped Miniature Light Bulbs								
LED								
168LED	T3-1/4	Glass Wedge (W2.1x9.5d)	0.48W	12V AC	White	LumaPro	**475G21**	1
Incandescent								
17	T1-3/4	Glass Wedge (W2.1x4.9d)	1.82W	28V AC	—	LumaPro	**2FMR5**	10
24NA	T2-3/4	Glass Wedge (W2x4.6d)	3.36W	14V AC	Amber	LumaPro	**2FLP8**	10
37	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	14V AC	Clear	LumaPro	**21U516**	1
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	14V AC	—	LumaPro	**2FMH3**	10
70	T1-3/4	Glass Wedge (W2.1x4.9d)	2.1W	14V AC	Clear	LumaPro	**2EKU8**	10
73	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	14V AC	Clear	LumaPro	**21U523**	2
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	14V AC	—	LumaPro	**2FMJ1**	10
74	T1-3/4	Glass Wedge (W2.1x4.9d)	1.4W	14V AC	—	LumaPro	**2FMA9**	10
85	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	28V AC	Clear	LumaPro	**21U525**	1
	T1-3/4	Glass Wedge (W2.1x4.9d)	1.12W	28V AC	—	LumaPro	**2FMP8**	10
86	T1-3/4	Glass Wedge (W2.1x4.9d)	1.26W	6.3V AC	—	LumaPro	**2FMK3**	10
147	T3-1/4	Glass Wedge (W2.1x9.5d)	3.01W	7V AC	Clear	LumaPro	**2FMG9**	10
158	T3-1/4	Glass Wedge (W2.1x9.5d)	3.36W	14V AC	Clear	LumaPro	**2FME3**	10
161	T3-1/4	Glass Wedge (W2.1x9.5d)	2.66W	14V AC	Clear	LumaPro	**21U534**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	2.66W	14V AC	—	LumaPro	**2FMH7**	10
168	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14V AC	Clear	LumaPro	**21U535**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14V AC	Clear	LumaPro	**2FME1**	10
168LL	T3-1/4	Glass Wedge (W2.1x9.5d)	4.9W	14V AC	Clear	LumaPro	**21U488**	2
192	T3-1/4	Glass Wedge (W2.1x9.5d)	4.29W	13V AC	—	LumaPro	**2FMT2**	10
193	T3-1/4	Glass Wedge (W2.1x9.5d)	4.62W	14V AC	Clear	LumaPro	**2FML2**	10
194	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Clear	LumaPro	**21U538**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Clear	LumaPro	**2FML3**	10
194G	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Green	LumaPro	**2EKV3**	10
194LL	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Clear	LumaPro	**21U489**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	—	LumaPro	**12A786**	10
194NA	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Amber	LumaPro	**21U539**	2
	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Amber	LumaPro	**2FLV6**	10
194R	T3-1/4	Glass Wedge (W2.1x9.5d)	3.78W	14V AC	Red	LumaPro	**2FLT6**	10
259	T3-1/4	Glass Wedge (W2.1x9.5d)	1.575W	6.3V AC	—	LumaPro	**2FMN2**	10
400	T3-1/4	Glass Wedge (W2.1x9.5d)	2.8W	28V AC	—	LumaPro	**2FMJ4**	10
555	T3-1/4	Glass Wedge (W2.1x9.5d)	1.575W	6.3V AC	Clear	LumaPro	**2FMD5**	10
558	T3-1/4	Glass Wedge (W2.1x9.5d)	4.29W	13V AC	—	LumaPro	**2FLW9**	10
585	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	28V AC	Clear	LumaPro	**3EHK5**	10
590	T3-1/4	Glass Wedge (W2.1x9.5d)	5W	13.5V AC	Clear	LumaPro	**2FMZ4**	10
	T3-1/4	Glass Wedge (W2.1x9.5d)	5W	13.5V AC	Warm White	LumaPro	**475G25**	1
655	T3-1/4	Glass Wedge (W2.1x9.5d)	5.6W	28V AC	—	LumaPro	**2FMU5**	10
656	T3-1/4	Glass Wedge (W2.1x9.5d)	1.68W	28V AC	—	LumaPro	**2FMN7**	10
657	T3-1/4	Glass Wedge (W2.1x9.5d)	2.24W	28V AC	—	LumaPro	**2FMP1**	10
658	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	14V AC	Clear	LumaPro	**21U575**	1
	T3-1/4	Glass Wedge (W2.1x9.5d)	1.12W	14V AC	—	LumaPro	**2FMK1**	10
901	T5	Glass Wedge (W2.1x9.5d)	3.968W	12.8V AC	Clear	LumaPro	**2FLV9**	10
904	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5V AC	Clear	LumaPro	**21U576**	2
	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5V AC	—	LumaPro	**2FLU7**	10
906	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5V AC	Clear	LumaPro	**21U577**	2
	T5	Glass Wedge (W2.1x9.5d)	9.315W	13.5V AC	Clear	LumaPro	**2FLX1**	10
908	T5	Glass Wedge (W2.1x9.5d)	9W	6V AC	Clear	LumaPro	**21U578**	1
	T5	Glass Wedge (W2.1x9.5d)	9W	6V AC	—	LumaPro	**2FML6**	10
909	T5	Glass Wedge (W2.1x9.5d)	3.72W	6V AC	—	LumaPro	**2FMP3**	10
912	T5	Glass Wedge (W2.1x9.5d)	12.8W	12.8V AC	Clear	LumaPro	**21U580**	2
	T5	Glass Wedge (W2.1x9.5d)	12.8W	12.8V AC	Clear	LumaPro	**2FME4**	10
912/24V	T5	Glass Wedge (W2.1x9.5d)	16.8W	24V AC	—	LumaPro	**2FNB2**	10
914	T5	Glass Wedge (W2.1x9.5d)	3.6W	4V AC	Clear	LumaPro	**2FMH5**	10
915	T5	Glass Wedge (W2.1x9.5d)	9W	12V AC	Clear	LumaPro	**21U582**	1
	T5	Glass Wedge (W2.1x9.5d)	9W	12V AC	—	LumaPro	**2FML1**	10
916	T5	Glass Wedge (W2.1x9.5d)	7.29W	13.5V AC	Clear	LumaPro	**2FLU5**	10
917	T5	Glass Wedge (W2.1x9.5d)	14.4W	12V AC	—	LumaPro	**2FMV7**	10
918	T5	Glass Wedge (W2.1x9.5d)	7.168W	12.8V AC	Clear	LumaPro	**21U584**	1
	T5	Glass Wedge (W2.1x9.5d)	7.168W	12.8V AC	Clear	LumaPro	**2FMC7**	10
921	T5	Glass Wedge (W2.1x9.5d)	17.92W	12.8V AC	White	LumaPro	**21U585**	2
921 (W16W)	T5	Glass Wedge (W2.1x9.5d)	17.92W	12.8V AC	—	LumaPro	**2FME6**	10
922	T5	Glass Wedge (W2.1x9.5d)	12.544W	12.8V AC	Clear	LumaPro	**2FLT8**	10
923	T5	Glass Wedge (W2.1x9.5d)	11.648W	12.8V AC	—	LumaPro	**21U587**	2
	T5	Glass Wedge (W2.1x9.5d)	11.648W	12.8V AC	Clear	LumaPro	**2FLV2**	10
927	T5	Glass Wedge (W2.1x9.5d)	7.2W	6V AC	—	LumaPro	**2FMK5**	10
939	T5	Glass Wedge (W2.1x9.5d)	5.4W	6V AC	—	LumaPro	**21U589**	1
	T5	Glass Wedge (W2.1x9.5d)	5.4W	6V AC	—	LumaPro	**2FMN5**	10
2721	T1-1/2	Glass Wedge (W2x4.6d)	1.2W	12V AC	—	LumaPro	**3EHL6**	10
2722	T1-1/2	Glass Wedge (W2x4.6d)	2.04W	12V AC	—	LumaPro	**3EHL7**	10
2821	T3-1/4	Glass Wedge (W2.1x9.5d)	3W	12V AC	—	LumaPro	**2FMW9**	10
2825	T3-1/4	Glass Wedge (W2.1x9.5d)	4.8W	12V AC	Clear	LumaPro	**2FMX1**	10
BC4T5/TP/12/4	T5	Glass Wedge (W2.1x4.9d)	4W	12V AC	—	Philips	**493A24**	4
BC11T5/TP/12/4	T5	Glass Wedge (W2.1x4.9d)	11W	12V AC	—	Philips	**493A23**	4
BC18T5/TP/12/4	T5	Glass Wedge (W2.1x4.9d)	18W	171V AC	—	Philips	**493A25**	4
Halogen								
464	T3-1/4	Glass Wedge (W2.1x9.5d)	4.76W	28V AC	—	LumaPro	**2FMJ6**	10
15168	T3	Recessed Single Contact (R7s)	300W	220V AC	—	Eiko	**29NT87**	1
DE/100W/78 mm	T3	Glass Wedge (W2.1x4.9d)	100W	120V AC	—	Philips	**492Z52**	1
DE/150W/78 mm	T3	Glass Wedge (W2.1x4.9d)	150W	120V AC	—	Philips	**492Z51**	1
DE/300W/118 mm	T3	Glass Wedge (W2.1x4.9d)	300W	120V AC	—	Philips	**492Z63**	2
DE/500W/118 mm	T3	Glass Wedge (W2.1x4.9d)	500W	120V AC	—	Philips	**492Z50**	2
EHM	T2-1/2	Recessed Single Contact (R7s)	300W	120V AC	—	Current	**2V529**	1
FCL	T3	Recessed Single Contact (R7s)	500W	120V AC	—	Current	**2V384**	1
Q100T3/CL	T3	Recessed Single Contact (R7s)	100W	120V AC	—	Current	**1G996**	1
Q500T3/CL	T3	Recessed Single Contact (R7s)	500W	130/120V AC	—	Current	**2V510**	1
Plastic Wedge-Base T-Shaped Miniature Light Bulbs								
LED								
L12V-WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.9W	12V AC	Warm White	LumaPro	**2FNN6**	1
L1024WB-W	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.3W	24V AC	White	LumaPro	**26CU04**	1
LM0506WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.12W	6.30V AC	Red	LumaPro	**2FNG1**	1
LM0512WB-B	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8V AC	Blue	LumaPro	**2FNG5**	1
LM0512WB-G	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8V AC	Green	LumaPro	**2FNG6**	1
LM0512WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8V AC	Red	LumaPro	**2FNG7**	1



Glass Wedge Base



Recessed Single Contact (R7s) Base

21U488

CONTINUED

26CU04

LumaPro PHILIPS EiKO Current

Wedge-Base T-Shaped Miniature Light Bulbs

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Light Color	Brand	Item No.	Pkg. Qty.
LM0512WB-W	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8V AC	White	LumaPro	**2FNG8**	1
LM0512WB-WW	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.24W	12.8V AC	Warm White	LumaPro	**2FNG9**	1
LM1006WB-B	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30V AC	Blue	LumaPro	**2FNJ5**	1
LM1006WB-G	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30V AC	Green	LumaPro	**2FNJ6**	1
LM1006WB-W	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30V AC	White	LumaPro	**2FNJ8**	1
LM1006WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.47W	6.30V AC	Warm White	LumaPro	**2FNJ9**	1
LM1012WB-A	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.1W	12V AC	Amber	LumaPro	**2FNN1**	1
LM1012WB-B	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.1W	12V AC	Blue	LumaPro	**2FNN2**	1
LM1024WB-A	T3-1/4	Plastic Wedge (W2.1x9.5d)	1W	24V AC	Amber	LumaPro	**2FNR7**	1
LM1024WB-G	T3-1/4	Plastic Wedge (W2.1x9.5d)	1W	24V AC	Green	LumaPro	**2FNR9**	1
LM1024WB-R	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.7W	24V AC	Red	LumaPro	**2FNT1**	1
LM1024WB-WW	T3-1/4	Plastic Wedge (W2.1x9.5d)	0.7W	24V AC	Warm White	LumaPro	**2FNT3**	1
LT0524WB-A	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24V DC	Amber	LumaPro	**3AFV5**	1
LT0524WB-R	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24V DC	Red	LumaPro	**3AFV6**	1
LT0524WB-W	T1-3/4	Plastic Wedge (W2.1x4.9d)	0.42W	24V DC	White	LumaPro	**3AFV3**	1

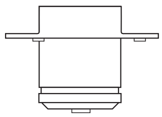
5HB85

Sleeve-Base T-Shaped Miniature Light Bulbs

Current

Sleeve-base T-shaped miniature light bulbs are commonly used in heaters or heat lamps. They have a sleeve base with contacts on both ends, and they are pushed into a compatible socket to install.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Sleeve-Base T-Shaped Miniature Light Bulbs						
Halogen						
QH2MT3/CL/HT/R	T3	Sleeve	2000W	230V AC	**6V285**	1
QH2.5MT3/CL/HT/R 400	T3	Sleeve	2500W	400V AC	**5HB85**	1
QH3MT3/CL/HT/R 400	T3	Sleeve	3000W	400V AC	**5HB86**	1



Medium Prefocus (P28s) Base

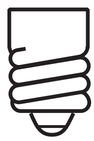
6DZH4

Current EiKO

Prefocus-Base T-Shaped Miniature Light Bulbs

The prefocus bases on these T-shaped miniature light bulbs have a ring or collar that helps ensure the bulbs are properly aligned when they are pushed into a compatible socket to install. Also known as P28s bases, medium prefocus light bulb bases have a 28mm dia. They have a smooth cap shape with two dimples on the sides and one contact on the bottom.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Brand	Item No.	Pkg. Qty.
Medium Prefocus-Base T-Shaped Miniature Light Bulbs							
Incandescent							
6.6A/T10/1P 30W	T10	Medium Prefocus (P28s)	30W	30V AC	Current	**5V305**	1
6.6A/T10P	T10	Medium Prefocus (P28s)	45W	6.8 V	Current	**5V307**	1
Halogen							
00390	T6	Medium Prefocus (P28s)	500W	120V AC	Eiko	**6DZH1**	1
00410	T7	Medium Prefocus (P28s)	750W	120V AC	Eiko	**6DZH2**	1
00430	T7	Medium Prefocus (P28s)	1000W	120V AC	Eiko	**6DZH4**	1
BTL-Q500T6/CL/P	T6	Medium Prefocus (P28s)	500W	120V AC	Current	**6VN47**	1



Miniature Screw (E10) Base

2FLW7

LumaPro

TL-Shaped Miniature Light Bulbs

TL-shaped miniature light bulbs have a tube shape with a bump at the top of the bulb where the lens is located. Also known as tubular lens miniature light bulbs, they are used in flashlights. The bulbs have an E10 miniature screw base, which has a 10mm dia. and screws into a compatible socket.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Miniature Screw-Base TL-Shaped Miniature Light Bulbs						
Incandescent						
112	TL3	Miniature Screw (E10)	0.264W	1.2V AC	**2FLW7**	10
222	TL3	Miniature Screw (E10)	0.5625W	2.25V AC	**2FMK8**	10
243	TL3	Miniature Screw (E10)	0.6291W	2.33V AC	**2FMT4**	10

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Candelabra Screw-Base G-Shaped Miniature Light Bulbs						
Incandescent						
509 K	G6	Candelabra Screw (E12)	4.32W	24V AC	**2FMJ5**	10
Double-Contact Bayonet-Base G-Shaped Miniature Light Bulbs						
Incandescent						
64	G6	Double Contact Bayonet (BA15d)	4.41W	7V AC	**2FMF2**	10
68	G6	Double Contact Bayonet (BA15d)	7.965W	13.5V AC	**21U522**	1
	G6	Double Contact Bayonet (BA15d)	7.965W	13.5V AC	**2FMG8**	10
82	G6	Double Contact Bayonet (BA15d)	6.63W	6.5V AC	**2FMG3**	10
90	G6	Double Contact Bayonet (BA15d)	8.0	13	**21U528**	2
	G6	Double Contact Bayonet (BA15d)	7.54W	13V AC	**2FLZ4**	10
304	G6	Double Contact Bayonet (BA15d)	8.4W	28V AC	**21U549**	1
	G6	Double Contact Bayonet (BA15d)	8.4W	28V AC	**2FMC5**	10
624	G6	Double Contact Bayonet (BA15d)	10.36W	28V AC	**2FMA2**	10
1224	G6	Double Contact Bayonet (BA15d)	5.12W	32V AC	**2FMC9**	10
1252	G6	Double Contact Bayonet (BA15d)	6.44W	28V AC	**2FMF1**	10
Medium Screw-Base G-Shaped Miniature Light Bulbs						
LED						
LM40F1WE26-A	G12	Medium Screw (E26)	2.5W	90 to 240V AC	**2FPC1**	1
LM40F1WE26-G	G12	Medium Screw (E26)	2.5W	90 to 240V AC	**2FPC3**	1
LM40F1WE26-W	G12	Medium Screw (E26)	2.5W	90 to 240V AC	**2FPC5**	1
LM40F1WE26-WW	G12	Medium Screw (E26)	2.5W	90 to 240V AC	**2FPC6**	1
Miniature Screw-Base G-Shaped Miniature Light Bulbs						
Incandescent						
13	G3-1/2	Miniature Screw (E10)	1.11W	3.7V AC	**2FLZ3**	10
14	G3-1/2	Miniature Screw (E10)	0.741W	2.47V AC	**2FMC3**	10
27	G4-1/2	Miniature Screw (E10)	1.47W	4.9V AC	**2FLV1**	10
50	G3-1/2	Miniature Screw (E10)	1.65W	7.5V AC	**2FMR8**	10
131	G3-1/2	Miniature Screw (E10)	0.13W	1.3V AC	**2FMT1**	10
233	G3-1/2	Miniature Screw (E10)	0.6291W	2.33V AC	**2FMT3**	10
245	G3-1/2	Miniature Screw (E10)	1.23W	2.46V AC	**2FMT5**	10
406	G4-1/2	Miniature Screw (E10)	0.8W	2.6V AC	**3EHK3**	10
425	G4-1/2	Miniature Screw (E10)	2.5W	5V AC	**2FLX7**	10
428	G4-1/2	Miniature Screw (E10)	3.125W	12.5V AC	**2FMU4**	10
502	G4-1/2	Miniature Screw (E10)	0.765W	5.1V AC	**2FMF9**	10
605	G4-1/2	Miniature Screw (E10)	3.08W	6.15V AC	**2FMB8**	10
1446	G3-1/2	Miniature Screw (E10)	2.4W	12V AC	**2FMV9**	10
1447	G3-1/2	Miniature Screw (E10)	2.7W	18V AC	**3EHL1**	10
1448	G3-1/2	Miniature Screw (E10)	0.84W	24V AC	**2FMW1**	10
1449	G3-1/2	Miniature Screw (E10)	2.8W	14V AC	**2FMA6**	10
Single-Contact Bayonet-Base G-Shaped Miniature Light Bulbs						
Incandescent						
51	G3-1/2	Miniature Bayonet (BA9s)	1.65W	7.5V AC	**2FMK7**	10
53	G3-1/2	Miniature Bayonet (BA9s)	1.728W	14.4V AC	**21U519**	1
	G3-1/2	Miniature Bayonet (BA9s)	1.728W	14.4V AC	**2FMJ3**	10
55	G4-1/2	Miniature Bayonet (BA9s)	2.87W	7V AC	**2FMK2**	10
57	G4-1/2	Miniature Bayonet (BA9s)	3.36W	14V AC	**21U520**	1
	G4-1/2	Miniature Bayonet (BA9s)	3.36W	14V AC	**2FME9**	10
265	G3-1/2	Miniature Bayonet (BA9s)	2.24W	28V AC	**21U546**	1
	G3-1/2	Miniature Bayonet (BA9s)	2.24W	28V AC	**2FLY6**	10
293	G4-1/2	Miniature Bayonet (BA9s)	4.62W	14V AC	**2EKV5**	10
356	G3-1/2	Miniature Bayonet (BA9s)	4.76W	28V AC	**21U561**	1
	G3-1/2	Miniature Bayonet (BA9s)	4.76W	28V AC	**2FMC4**	10
363	G3-1/2	Miniature Bayonet (BA9s)	2.8W	14V AC	**2FMU1**	10
456	G4-1/2	Miniature Bayonet (BA9s)	4.76W	28V AC	**2FLY4**	10
503	G4-1/2	Miniature Bayonet (BA9s)	0.765W	5.1V AC	**3EHK4**	10
1445	G3-1/2	Miniature Bayonet (BA9s)	1.872W	14.4V AC	**21U613**	2
	G3-1/2	Miniature Bayonet (BA9s)	1.872W	14.4V AC	**2FLT3**	10
1450	G3-1/2	Miniature Bayonet (BA9s)	0.84W	24V AC	**21U614**	1
	G3-1/2	Miniature Bayonet (BA9s)	0.84W	24V AC	**2FMH4**	10
1895	G4-1/2	Miniature Bayonet (BA9s)	3.78W	14V AC	**2FLZ9**	10

LumaPro®

G-Shaped Miniature Light Bulbs

G-shaped miniature light bulbs have a compact, round shape and are also known as globe-shaped miniature bulbs.

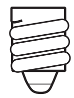
2FMJ5

21U549

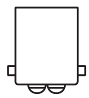
2FPC6

2FLZ3

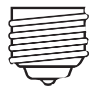
21U519



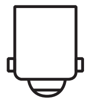
Candelabra Screw (E12) Base



Double Contact Bayonet (BA15d) Base



Medium Screw (E26) Base



Miniature Bayonet (BA9s) Base

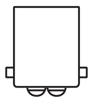
Miniature Screw (E10) Base

LumaPro®

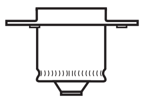
B-Shaped Miniature Light Bulbs

B-shaped miniature light bulbs have an oval shape with a rounded or pointed top. They are also known as bomb-, bullet-, blister-, or bulged-shaped bulbs. The bulbs have bayonet base with one or two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base B-Shaped Miniature Light Bulbs						
Incandescent						
1004	B6	Double Contact Bayonet (BA15d)	12.032W	12.8V AC	**21U591**	2
	B6	Double Contact Bayonet (BA15d)	12.032W	12.8V AC	**2FLY3**	10
Single-Contact Bayonet-Base S-Shaped Miniature Light Bulbs						
PR18	B3-1/2	Single Contact Miniature Flanged (P13.5s)	3.96W	7.2V AC	**2EKY4**	10



Double Contact Bayonet (BA15d) Base



Single Contact Miniature Flanged (P13.5s) Base

2FLY3

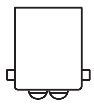
2EKY4

LumaPro®

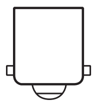
RP-Shaped Miniature Light Bulbs

RP-shaped miniature light bulbs have a rounded pear shape that is wider at the top and narrower at the base. Sometimes called reflector pear bulbs, they have bayonet base with one or two contacts on the bottom and lugs on either side that lock the bulb in place when the base is pushed into a compatible socket and twisted.

Trade No.	Bulb Shape	Base Type	Watts	Voltage	Item No.	Pkg. Qty.
Double-Contact Bayonet-Base RP-Shaped Miniature Light Bulbs						
Incandescent						
1062	RP11	Double Contact Bayonet (BA15d)	36.8W	40V AC	**2FMA4**	10
1133	RP11	Single Contact Bayonet (BA15s)	24.242W	6.2V AC	**21U595**	1
	RP11	Single Contact Bayonet (BA15s)	24.242W	6.2V AC	**2FMH8**	10
1195	RP11	Single Contact Bayonet (BA15s)	37.5W	12.5V AC	**21U608**	1
1196	RP11	Double Contact Bayonet (BA15d)	37.5W	12.5V AC	**2FLW4**	10
CE19	RP11	Double Contact Bayonet (BA15d)	40W	36V AC	**475G22**	1



Double Contact Bayonet (BA15d) Base



Single Contact Bayonet (BA15s) Base

475G22

Scan. Order. Done.
Details on page A1.

Bulb Eaters and Lamp Crushing Systems and Accessories

Bulb Eater 3
20VR90

401M81

Units safely crush fluorescent lamps into 100% recyclable material. Activated carbon and dust filters capture and neutralize over 99.99% of mercury vapors released in the process. Systems include one straight lamp tube, filter combo kit, spinner assembly, and carbon filter. 20VR90 accepts all fluorescent lamps when 20VR91 is added.

Notes: Use and recycling of the crushed lamps is regulated by the EPA. Not available in CA, CT, ME, MN, MO, NH, PA, RI, VT, WV. Permits required in NJ and MI; application required in TX and VA.

Lamps must be crushed in building where used.

Description	Lamp Crushing Capacity 4ft. T8	4ft. T12	4ft. T17	8ft. T12	4ft.T12 U-Shape	Mfr. Model	Item No.
Light Bulb & Lamp Crushers							
Bulb Eater 3, Four Stage Filter System, On Board Controls with Intelli Technology	1,350	875	300	400	450	333-200-120	**20VR90**
Bulb Eater 3L, Four Stage Filter System, On Board Controls with Intelli Technology	1,350	875	300	400	550	333-100-120	**401M81**

Description	Mfr. Model	Item No.
Light Bulb & Lamp Crusher Accessories		
For Use With 330-007, 330-010, Mfr. No. 330-005		
T8 Entry Tube,48" L	55-486	**4AVF3**
For Use With 330-005, 330-010, 333-100-120, 333-200-120, Mfr. No. 330-007		
T12 Entry Tube,48" L	55-488	**4AVF4**
Drum Dolly	55-470	**6ZFY0**
For Use With 330-005, 330-007, 333-100-120, 333-200-120, Mfr. No. 330-010		
HEPA Filter,Plastic	55-325	**4AVG2**
For Use With 330-005, 330-007, Mfr. No. 330-010		
Bag Filters,20 Included	55-310	**4AVG1**
Filter Combo Kit Includes 20 Bag Filters and 1 HEPA Filter	55-330	**4AVF9**
Filter Combo Kit with Spinner Includes 20 Bag Filters, 1 HEPA Filter, and Replacement Spinner	55-131	**4AVG5**
Jumbo Filter Combo Kit	55-333	**4AVG3**
Spinner Assembly	55-132	**4AVG4**
For Use With 333-100-120, 333-200-120, Mfr. No. 330-007		
CFL Spinner Assembly, 8-Link	055-133	**11C377**
For Use With 333-100-120, Mfr. No. 333-200-120		
CFL/U-Tube Chute	333-210-CHU	**20VR91**
Filter Cartridge	333-367	**20VR92**
For Use With Mfr. No. 333-200-120		
Filter Combo Kit for 333-200-120 (1) HEPA Filter, (1) Spinner Assembly, (2) Filter Cartridges	333-390-SCK	**20VR93**
Jumbo Filter Combo Kit for 333-200-120 (10) Filter Cartridges, (5) HEPA Filters, (5) Spinner Assemblies	333-390-LCK	**20VR94**
For Use With Mfr. No. 333-100-120		
Filter Combo Kit for 333-200-120 (1) HEPA Filter, (4) Cartridge Filters, 8-Link Spinner Assemblies	333-395-SCK	**401M82**
Jumbo Filter Combo Kit for 333-200-120 (20) Cartridge Filters, (5) HEPA Filters, 8-Link Spinner Assemblies	333-395-LCK	**401M83**
Filter Cartridge Kit for 333-200-120 (4) Cartridge Filters	333-367-4PK	**401M84**

Lamp Changers

- Order bulb changer and pole separately

Change high and hard-to-reach lamps without using ladders. To determine proper selection, match lamp changer with lamp type.

3V694 3UP47 3V693 3V690 2D006 2D008 38W576 8YDC7 3V699

Application	Brand	Item No.
Rubber Suction Cup		
PAR30, PAR36, PAR38	—	**3V694**
R20, R30, ER30, PAR20	—	**3V695**
R20, R30, ER30, PAR20	Unger	**3UP47**
R40, R52, BR52	—	**3V693**
Rubber Covered Fingers		
A15, A17, A19, G16-1/2, G18-1/2	—	**3V690**
A19, A21, A23, P25, PS25, PS30, PS35, G25, G30, FLE20, T19	—	**3V691**
BR/R30, BR/R40, PAR30, PAR36, PAR38, ER30, ER40	—	**3V692**
BR/R30, BR/R40, PAR30, PAR36, PAR38, ER30, ER40	Unger	**3UP46**
BT28, E21, E23, E23-1/2,E25, E28, ED23-1/2, ED28	—	**2D006**
E17, E18, ED17, ED18, B17	—	**2D012**
E37, BT37, BT46, ED37	—	**2D007**
PS35, PS40, G40, G48	—	**2D008**
R52, R57	—	**2D009**
Lamp Changer Kit		
11 ft. Steel Pole, Standard, Floodlight and Recessed Changer Heads, 2 pc. Broken Bulb Changer and Duster	Bayco	**38W576**
Broken Lamp Remover		
Rubber Tip Without Dish	—	**8YDC7**
Steel Fork With Plastic Dish to Catch Broken Glass	—	**3V699**
Steel Fork With Plastic Dish to Catch Broken Glass	Unger	**3UP45**
Accessories		
5-Ft. Wood Insulated, Steel Pole	—	**3V698**

Battery Recycling

Battery recycling products help users comply with regulations for recycling batteries, which may contain hazardous materials. **Prepaid recycling and disposal kits** come with containers, preprinted shipping labels, and shipping instructions for recycling specific types of batteries. Prepaid shipping fees and recycling costs are included with the kits, and a certificate of reclamation is available upon request. **Recycling tubes for standard batteries** can be placed in high-traffic areas such as copy rooms and supply rooms to collect dead batteries for recycling.

55VP96 1FYF1 48UL69 4NYA8

Maximum Battery Size (L)	Maximum Battery Size (WxH)	Volume Cap.	Weight Cap.	Prepaid Disposal Included	Brand	Item No.
Prepaid Recycling & Disposal Kits for Damaged Lithium-Ion Batteries						
Damaged Lithium Ion Batteries						
1.5 in	2 in x 2 in	5 gal	20.5 lb	Yes	RecyclePak	**55VP96**
5.5 in	4.5 in x 4.5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP92**
	4.5 in x 4.5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR01**
6 in	3.5 in x 3.5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VP98**
	3.5 x 3.5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP90**
7 in	5 in x 5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP94**
	5 in x 5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR03**
9 in	11 in x 11 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR05**
Damaged Lithium Metal Batteries						
1.5 in	2 in x 2 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP89**
	2 in x 2 in	5 gal	20.5 lb	Yes	RecyclePak	**55VP97**
5.5 in	4.5 in x 4.5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP93**
	4.5 in x 4.5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR02**
6 in	3.5 in x 3.5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VP99**
	3.5 x 3.5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP91**
7 in	5 in x 5 in	5.5 ltr.	8.8 lb	Yes	RecyclePak	**55VP95**
	5 in x 5 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR04**
9 in	11 in x 11 in	5 gal	20.5 lb	Yes	RecyclePak	**55VR06**

Maximum Battery Size (L)	Maximum Battery Size (WxH)	Volume Cap.	Weight Cap.	Prepaid Disposal Included	Brand	Item No.
Prepaid Recycling & Disposal Kits for Standard Batteries						
Dry Cell Batteries						
7 in	12 in x 10 in	3½ gal	50 lb	Yes	Everlights	**48VG30**
10 in	22 in x 34 in	55 gal	600 lb	Yes	Everlights	**30YH48**
Lithium Content Dependent and Weight Dependent	Lithium Content Dependent and Weight Dependent	3½ gal	50 lb	Yes	RecyclePak	**1FYF1**
	Lithium Content Dependent and Weight Dependent	½ gal	15 lb	Yes	RecyclePak	**12G312**
	Lithium Content Dependent and Weight Dependent	1 gal	25 lb	Yes	RecyclePak	**12G311**
	Lithium Content Dependent and Weight Dependent	Weight Dependent	45 lb	Yes	RecyclePak	**34J848**
Recycling Tubes for Standard Batteries						
Dry Cell Batteries						
8 in	8 in x 48 in	3.5 gal	33 lb	Yes	Everlights	**48UL69**
36 in	5 in x 5 in	5 gal	55 lb	No	Everlights	**30YH47**
Sealed Lead-Acid Battery Prepaid Recycling & Disposal Kits						
Sealed Lead Acid Batteries						
Weight Dependent	Weight Dependent	2 gal	35 lb	Yes	RecyclePak	**4NYA8**

5KH66

34J850

2KNL3

48UL67

45L101

Recycling Kits

Kits come with the necessary items for recycling specific quantities of light bulbs, ballasts, and other products that contain hazardous materials in compliance with environmental regulations. RecyclePak® Kits include container (except where noted), preprinted address label; and certificate of reclamation. EverLights Kits have a pre-labeled container with state-specific universal waste shipping instructions and provide a certificate of reclamation upon request.

Note: For customers in Alaska, Hawaii, Arkansas, the Virgin Islands, Guam, and Puerto Rico, please call 1-800-GRAINGER (472-4643).

For Use With	Volume Cap.	Weight Cap.	L	W	D	Prepaid Disposal Included	Brand	Item No.
Ballast Prepaid Recycling & Disposal Kits								
Non PCB and Electronic Lamp Ballast	Weight Dependent	20 lb	18 in	12 in	6 in	Yes	RecyclePak	**55VP87**
PCB or Non-PCB Ballasts	5 gal	50 lb	84 in	12 in	12 in	Yes	Everlights	**48UL70**
TSCA-exempt PCB and Non PCB Magnetic and Electronic Lamp Ballast.	5 gal	55 lb	14 in	10 in	11 ½ in	Yes	RecyclePak	**5KH66**
	6½ gal	66 lb	11 ⅜ in	11 ⅜ in	18 ⅜ in	Yes	RecyclePak	**34J846**
	30 gal	250 lb	17 ½ in	17 ½ in	27 in	Yes	RecyclePak	**45L102**
Cell Phone Prepaid Recycling & Disposal Kits								
110 Cell Phones	110 Cell Phones	25 lb	13 in	9 in	13 in	Yes	RecyclePak	**34J850**
Combination Light Bulb & Ballast Recycling & Disposal Solutions								
60 T12 or 120 T8 4 ft Straight Lamps and 25 PCB or Non-PCB Ballasts	5 gal	500 lb	40 in	40 in	40 in	Yes	Everlights	**30YH42**
HID Lamps and HID Ballasts	55 gal	300 lb	40 in	30 in	40 in	Yes	Everlights	**30YH41**
U-Bend Fluorescent Lamps and Non-PCB Ballasts	55 gal	500 lb	40 in	40 in	40 in	Yes	Everlights	**30YH40**
	55 gal	1,600 lb	13 in	13 in	13 in	Yes	Everlights	**30YH37**
Ink & Toner Cartridge Prepaid Recycling & Disposal Kits								
30-45 Inkjet Cartridges	30-45 Inkjet Cartridges	10 lb	13 in	9 in	13 in	Yes	RecyclePak	**34J849**
Light Bulb Prepaid Recycling & Disposal Kits								
150 small spiral, 265 4-pin CFLs or 125 incandescent or misc. spots, 525 2-pin, LEDs and floods.	Weight Dependent	37 lb	15 in	15 in	15 in	Yes	RecyclePak	**4NYA6**
16 T12 or 39 T8 4 ft Straight Lamps	Weight Dependent	17 lb	48 in	6 in	6 in	Yes	RecyclePak	**2KNL3**
16 T12 or 39 T8 8ft straight lamps.	Weight Dependent	35 lb	96 in	6 in	6 in	Yes	RecyclePak	**5KH64**
191 6W or 207 8W or 135 12W Small LED Lamps	Weight Dependent	50 lb	18 in	18 in	12 in	Yes	RecyclePak	**444A29**
22 T12 or 32 T8 u-tubes or 250 small CFLs or misc. HIDs, LEDs or circular lamps.	Weight Dependent	58 lb	16 in	16 in	25 in	Yes	RecyclePak	**2KNL6**
25 T12 or 57 T8 8ft straight lamps.	Weight Dependent	61 lb	8 in	96 in	8 in	Yes	RecyclePak	**4NYA4**
25 T12 or 57 T8 Free Flowing Mercury Straight UV Lamps 8 ft Length	Weight Dependent	55 lb	10 in	100 in	10 in	Yes	RecyclePak	**444A31**
25 T12 or 64 T8 Straight Lamps and 275 PCB Ballasts, 40 U-Bend Lamps, 10 HID Lamps	4' Linear Box	45 lb	48 in	8 in	8 in	Yes	Everlights	**48UL66**
2 to 4 Small LED Lamps	Weight Dependent	3 lb	6 in	9 in	10 in	Yes	RecyclePak	**444A27**
30 T12 or 60 T8 Free Flowing Mercury Straight UV Lamps 4 ft Length	Weight Dependent	34 lb	12 in	52 in	12 in	Yes	RecyclePak	**444A30**
30 T12 or 72 T8 4ft straight lamps or 10 T12 or 20 T8 u-tubes.	Weight Dependent	34 lb	48 in	8 ½ in	8 ½ in	Yes	RecyclePak	**5KH63**
35 small spiral CFLs	Weight Dependent	11 lb	13 in	13 in	9 in	Yes	RecyclePak	**34J847**
39 T8 or 62 T5 or 78 T4 or 156 T2 4 ft Straight LED Lamps	Weight Dependent	17 lb	6 in	48 in	6 in	Yes	RecyclePak	**444A26**
46 T12 or 81 T8 u-tubes or 60 400w HIDs.	Weight Dependent	54 lb	22 in	22 in	24 in	Yes	RecyclePak	**4NYA5**
64 6W or 69 8W or 45 12W Small LED Lamps	Weight Dependent	20 lb	12 in	18 in	6 in	Yes	RecyclePak	**444A28**
68 T12 or 146 T8 4ft straight lamps or 22 T12 or 32 T8 u-tubes.	Weight Dependent	66 lb	48 in	12 in	12 in	Yes	RecyclePak	**4CY98**
800 T12 or 1600 T8 4ft straight lamps or 360 400w HIDs or 312 T12 or 480 T8 u-tubes	Weight Dependent	450 lb	48 in	40 in	51 in	Yes	RecyclePak	**2KNL7**
80 T12 or 160 T8 Straight Lamps	4' Linear Box	50 lb	48 in	12 ¼ in	12 ¼ in	Yes	Everlights	**48UL67**
CFL and LEDs (6 to 8 Med. or 12 Small)	Weight Dependent	3.85 lb	6 in	6 in	6 in	Yes	RecyclePak	**2KNL5**
CFLs or Mixed lamps.	Weight Dependent	525 lb	36 in	36 in	36 in	Yes	RecyclePak	**45L101**
HID Lamps	2' Linear Box	80 lb	24 in	21 in	21 in	Yes	Everlights	**48VG31**
Projection Lamps	Weight Dependent	9 lb	12 ¼ in	9 in	10 ¼ in	Yes	RecyclePak	**55VP85**
	Weight Dependent	22 lb	18 in	18 in	18 in	Yes	RecyclePak	**55VP86**
Small to medium CFLs or LEDs. DO NOT EXCEED the UN rated weight of 55 lbs when placing lamps into this container.	5 gal	55 lb	14 in	10 in	11 ½ in	Yes	RecyclePak	**5KH67**
Light Bulb Recycling Boxes								
25 T12 or 57 T8 8ft straight lamps	Weight Dependent	60 lb	8 in	96 in	8 in	No	SupplyPak	**48TJ52** #
30 T12 or 60 T8 4ft straight lamps or 10 T12 or 20 T8 u-tubes.	Weight Dependent	34 lb	48 in	8 ½ in	8 ½ in	No	SupplyPak	**48TJ51** #
46 T12 or 81 T8 u-tubes or 60 400w HIDS or Misc CFLs	Weight Dependent	54 lb	22 in	22 in	24 in	No	SupplyPak	**48TJ53** #
Light Bulb Recycling Stamps								
550 lbs. of crushed linear fluorescent lamps	—	550 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L103** *
900 T12 or 1800 T8 4 ft Straight Lamps	—	900 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L104** *
900 T12 or 1800 T8 8 ft Straight Lamps	—	4 lb	11 in	8 ½ in	1 in	Yes	RecyclePak	**45L105** *
Mercury Device Prepaid Recycling & Disposal Kits								
Intact Universal Waste Mercury Devices	1 gal	13 lb	7 in	7 ½ in	6 ⅝ in	Yes	RecyclePak	**5AU58**
	5 gal	55 lb	14 ⅛ in	11 ½ in	10 ⅝ in	Yes	RecyclePak	**4NYA7**
Prepaid Recycling & Disposal Kits for Home & Office Electronics								
Cell Phones, Home and Office Electronics: Computers, Monitors, Printers, Toner Cartridges, TVs	Weight Dependent	20 lb	18 in	12 in	6 in	Yes	RecyclePak	**12G313**
	Weight Dependent	50 lb	18 in	18 in	12 in	Yes	RecyclePak	**12G314**
	Weight Dependent	70 lb	22 in	22 in	22 in	Yes	RecyclePak	**2KNL4**
	Weight Dependent	450 lb	36 in	26 in	36 in	Yes	RecyclePak	**45L099**

**** Does not include packaging or containers. Only includes waste pickup, transportation, and recycling. # No disposal or return shipping included.***

LUTRON PHILIPS ADVANCE KEYSTONE Current

LED Drivers for Fixture Arrays

These LED drivers protect fixtures that use LED arrays from power supply fluctuations, which can reduce light output quality. They convert high-voltage AC into low-voltage DC to power the arrays. Drivers and bulbs must be the same brand for proper operation.

30YH72

36X539

38AY05

Input Voltage	Output Voltage	Output Current	Power Output	Dimming	Power Factor	Case Form Factor	Mfr. Model	Item No.
Adjustable Output Current LED Drivers								
Lutron Hi-lume 1% EcoSystem								
120 to 277V AC	12V DC	3.30ADC	5 to 40W	Yes	0.95/0.99	Compact	L3DA4U1UKL-AV120	**38AY07**
	24V DC	1.60ADC	5 to 40W	Yes	0.95/0.99	Compact	L3DA4U1UKL-CV240	**38AY08**
Constant Current LED Drivers								
Advance Xitanium								
120 to 277V AC	12 to 24V DC	1.0 to 2.0ADC	48W	Yes	Greater Than 0.9	Long	LEDINTA2000C24DO	**30YH76**
	27 to 54V DC	0.10 to 1.50ADC	54W	Yes	Greater Than 0.95	Long	XI054C150V054DNT1M	**30YH77**
	27 to 54V DC	0.70 to 2.0ADC	75W	Yes	Greater Than 0.9	Long	XI075C200V054XPT1M	**30YH78**
	12 to 24V DC	4.1ADC	100W	Yes	0.95	—	XI100C410V024FNS1M	**55XD32**
	44 to 140V DC	1.05ADC	150W	Yes	Greater Than 0.95	Long	XI150C105V140CNF1	**36UX14**
347 to 480V AC	120 to 425V DC	0.35ADC	150W	Yes	0.9	Long	LEDHCNA0350C425DN	**30YH72**
	120 to 280V DC	0.53ADC	150W	Yes	Greater Than 0.95	Long	XH150C053V280CNF1	**36UX15**
	60 to 210V DC	0.70ADC	150W	Yes	Greater Than 0.95	Long	XH150C070V210CNF1	**36UX16**
Keystone Technologies								
120 to 277V AC	30 to 54 V DC	200mA, 230mA, 270mA, 300mA	15 W	Yes	Greater Than 0.9	Long	KTLD-15-UV-PS300-54-VDIM-LP1	**61DA27**
	30 to 54 V DC	260mA, 290mA, 320mA, 350mA	15 W	Yes	Greater Than 0.9	Long	KTLD-15-UV-PS350-42-VDIM-LP1	**61DA28**
	30 to 54 V DC	300mA, 350mA, 400mA, 450mA	25 W	Yes	Greater Than 0.9	Long	KTLD-25-UV-PS450-54-VDIM-LP2	**61DA29**
	20 to 42 V DC	450mA, 500mA, 550mA, 600mA	25 W	Yes	Greater Than 0.9	Long	KTLD-25-UV-PS600-42-VDIM-LP2	**61DA30**
	30 to 54 V DC	450mA, 500mA, 550mA, 600mA	35 W	Yes	Greater Than 0.9	Long	KTLD-35-UV-PS650-54-VDIM-LM1	**61DA31**
	20 to 42 V DC	700mA, 750mA, 800mA, 850mA	35 W	Yes	Greater Than 0.9	Long	KTLD-35-UV-PS850-42-VDIM-LM1	**61DA32**
	30 to 54 V DC	700mA, 750mA, 800mA, 850mA	45 W	Yes	Greater Than 0.9	Long	KTLD-45-UV-PS850-54-VDIM-LM1	**61DA33**
	20 to 42 V DC	1000mA, 1100mA, 900mA, 950mA	45 W	Yes	Greater Than 0.9	Long	KTLD-45-UV-PS1100-42-VDIM-LM1	**61DA34**
	30 to 54 V DC	1100mA, 1200mA, 1300mA, 1400mA	75 W	Yes	Greater Than 0.9	Long	KTLD-75-UV-PS1400-54-VDIM-LM2	**61DA35**
	20 to 42 V DC	1400mA, 1500mA, 1600mA, 1700mA	75 W	Yes	Greater Than 0.9	Long	KTLD-75-UV-PS1700-42-VDIM-LM2	**61DA36**
Lutron Hi-lume 1% EcoSystem								
120 to 277V AC	15 to 38V DC	0.20 to 0.70ADC	3 to 26.6W	Yes	Greater Than 0.9	Compact	L3DA4U1UKS-HA070	**60AT12**
	15 to 38V DC	0.20 to 0.70ADC	3 to 26.6W	Yes	Greater Than 0.9	Compact	L3DA4U1UKS-HC070	**60AT13**
	30 to 54V DC	0.20 to 0.50ADC	6 to 27W	Yes	Greater Than 0.9	Compact	L3DA4U1UKS-EA035	**60AT09**
	30 to 54V DC	0.20 to 0.50ADC	6 to 27W	Yes	Greater Than 0.9	Compact	L3DA4U1UKS-EA050	**60AT10**
	30 to 54V DC	0.51 to 1.0ADC	15 to 40W	Yes	Greater Than 0.9	Compact	L3DA4U1UKS-FA070	**60AT11**
	30 to 54V DC	0.51 to 1.0ADC	15 to 40W	Yes	Greater Than 0.9	Long	L3DA4U1UMN-FA070	**60AT14**
Constant Voltage LED Drivers								
Advance Xitanium								
120 to 277V AC	12V DC	0.10 to 5.0ADC	60W	No	0.99	Long	LEDINTA0012V50FO	**4HGK9**
120V AC	12V DC	0.80 to 5.0ADC	60W	No	Greater Than 0.95	Long	LED120A0012V50F	**4HGK8**
	24V DC	0.80 to 3.30ADC	80W	No	Greater Than 0.95	Long	LED120A0024V33F	**4HGL1**
Current Lumination(R)								
90 to 305V AC	11.4 to 12.6V DC	0.5 to 5ADC	60W	Yes	0.99	Long	GE060/MV/D12T1-A	**36X539**
	23 to 25.5V DC	3.3ADC	80W	Yes	0.99	Long	GE080/MV/D24T1-A	**26JT35**
	24V DC	3.8ADC	180W	No	0.99	Long	GE180/MV/V24T1-C	**26JT34**
Lutron Hi-lume 1% A Series								
120V AC	12V DC	0.21 to 1.95ADC	5 to 40W	Yes	0.99	Compact	LTEA4U1UKL-AV120	**38AY05**
	24V DC	0.21 to 1.95ADC	5 to 40W	Yes	0.99	Compact	LTEA4U1UKL-CV240	**38AY06**
Programmable LED Drivers								
Advance Xitanium								
120 to 277V AC	20 to 56V DC	0.20 to 0.70ADC	39W	Yes	Greater Than 0.9	Long	913701213402	**46N415**
	120 to 425V DC	0.35ADC	150W	Yes	0.9	Long	LEDINTA0350C425DO	**46N411**
	120 to 280V DC	0.53ADC	150W	Yes	0.9	Long	LEDINTA0530C280DO	**46N412**
	60 to 210V DC	0.70ADC	150W	Yes	0.9	Long	LEDINTA0700C210DO	**46N413**
	120 to 425V DC	0.35ADC	150W	No	0.9	Long	LEDINTA0350C425FO	**4HGL7**
	60 to 210V DC	0.70ADC	150W	No	0.9	Long	LEDINTA0700C210FO	**4HGL8**
120V AC	2.8 to 32.6V DC	0.35ADC	12W	No	0.9	Long	LED120A0350C33F	**4HGL3**
	2.8 to 24.6V DC	0.70ADC	17W	No	0.9	Long	LED120A0700C24FM	**4HGL5**

Current PHILIPS ADVANCE

LED Drivers for Type C Light Bulbs

LED drivers for Type C light bulbs are used to retrofit fluorescent lighting fixtures so they can be used with UL Type C LED linear light bulbs, which are more energy efficient than fluorescent bulbs. The drivers allow facilities to convert their fluorescent lighting fixtures to LED technology without the expense of replacing the fixtures entirely. They protect UL Type C LED light bulbs from damaging fluctuations in the power supply that can reduce the quality of their light output, and they power the bulbs by converting high-voltage alternating current (AC) into low-voltage direct current (DC).

45MX70

Number of Bulbs Supported	Input Voltage	Output Voltage	Output Current	Power Output	Dimming	Power Factor	Mfr. Model	Item No.
Current								
Lightech(TM)								
4	120 to 277V AC	26 to 34V DC	4.24ADC	144W	Yes	Greater Than 0.9	LED36T/DR/D4L	**55GU66**
LumenChoice(TM)								
2	120 to 277V AC	26 to 34V DC	0.48ADC	33W	Yes	Greater Than 0.9	LED/DR/D2L/LW	**55GU67**
2	120 to 277V AC	26 to 34V DC	0.72ADC	50W	Yes	Greater Than 0.9	LED/DR/D2L/HW	**55GU69**
4	120 to 277V AC	26 to 34V DC	0.48ADC	66W	Yes	Greater Than 0.9	LED/DR/D4L/LW	**55GU68**
4	120 to 277V AC	26 to 34V DC	0.62ADC	100W	Yes	Greater Than 0.9	LED/DR/D4L/HW	**55GU70**
Advance								
Centium								
2	120 to 277V AC	350V DC	0.25AAC	9 to 34W	No	0.81 to 0.98	ICN-2P16-TLED-N	**45MX70**
2	120 to 277V AC	350V DC	0.20AAC	32W	Yes	0.99	IZT2P16TLEDSC35I	**404K51**
4	120 to 277V AC	550V DC	0.25AAC	9 to 34W	No	0.92 to 0.99	ICN-4P16-TLED-N	**45MX71**
Xitanium								
—	120 to 277V AC	215V DC	0.34ADC	28W	No	0.9	913701269202	**55EY04**
—	120 to 277V AC	215V DC	0.51ADC	43W	No	0.9	913701269302	**55EY05**
—	120 to 277V AC	215V DC	0.68ADC	54W	No	0.9	913701269402	**55EY06**

162D70

162D88

Programmable LED Drivers

Drivers can be programmed to provide a specific voltage and current output that meets the power requirements of particular fixtures. Operators enter the desired specifications into a compatible programming device and then plug the device into the driver to upload the specifications to the driver. Once the driver is programmed to the desired specs, it can be installed in the fixture.

Input Voltage	Output Voltage	Output Current	Power Output	Dimming	Power Factor	Case Form Factor	Series	Mfr. Model	Item No.
Programmable LED Drivers									
120 to 277V AC	10 to 57V DC	250 to 1050mA	40W	Yes	Greater Than 0.92	Long	WorkHorse	T1M1UNV105P-40E	**162D70**
	10 to 57V DC	250 to 1050mA	60W	Yes	Greater Than 0.9	Long	WorkHorse	T1M1UNV105P-60E	**162D71**
	10 to 57V DC	250 to 1050mA	60W	Yes	Greater Than 0.9	Compact	WorkHorse	T1M1UNV105P-60F	**162D72**
	10 to 57V DC	500 to 2100mA	60W	Yes	Greater Than 0.95	Long	WorkHorse	T1M1UNV210P60L	**162D74**
	30 to 56V DC	700 to 2400mA	96W	Yes	Greater Than 0.9	Long	WorkHorse	T1M1UNV240P-96L	**162D75**
	50 to 150V DC	500 to 1500mA	100W	Yes	Greater Than 0.9	Compact	WorkHorse	T1M1UNV150P100C	**162D76**
Ballast & Driver Accessories									
Hand Held Remote LED Driver Programmer								TPSB-100	**162D88**

6ZET0

LUTRON

Proprietary Continuous Dimming Fluorescent Ballasts

- Programmed Rapid-Start Ballast Start Type

Proprietary continuous dimming ballasts are only compatible with continuous dimming controls from the same manufacturer and series. The ballasts and dimming controls interface precisely with each other, which makes them more reliable than other types of ballasts and dimming controls. These ballasts allow a light fixture's light output to be adjusted from 100% light output all the way down to the ballasts' lowest light output setting. They are most often used in fluorescent fixtures in lighting system retrofits or new construction lighting installations for large facilities.

Input Voltage	Number of Bulbs Supported	Max. Bulb Watts	Ballast Factor	Mfr. Model	Item No.
Lutron EcoSystem(R)					
T4 Bulb Type					
120 to 277V AC	1	18 W	0.95	EC3DT418KU1S	**6ZET4**
	1	32 W	0.95	EC3DT4MWKU1S	**6ZET6**
	1	32 W	0.95	EC3DT4MWKU1	**60AR98**
	1	42 W	0.95	EC3DT442KU1S	**6FVY0**
	2	18 W	0.95	EC3DT418KU2S	**6ZET5**
	2	32 W	0.95	EC3DT4MWKU2	**60AR99**
	2	32 W	0.95	EC3DT4MWKU2S	**6FVX9**
T5 Bulb Type					
120/240/277 V	2	28 W	1	EC5NST528CU210R	**61UM55**
120 to 277V AC	1	28 W	1	EC5T528JUNV1	**60AT01**
	2	28 W	1	EC5T528JUNV2	**60AT02**
T5HO Bulb Type					
120/240/277 V	1	54 W	1	EC5NST554CU110R	**61UM54**
120 to 277V AC	1	54 W	1	EC5T554JUNV1	**60AT03**
	2	54 W	1	EC5T554JUNV2	**60AT04**
T8 Bulb Type					
120 to 277V AC	2	32 W	0.85	EC5T832GUNV2	**60AT05**
	2	32 W	0.85	EC5T832GUNV2L	**60AT06**
	2	32 W	0.85	EC5T832JUNV2	**60AT08**
	3	32 W	0.85	EC5T832GUNV3L	**60AT07**
Lutron EcoSystem(R) EC5NS Series					
T5 Bulb Type					
120/240/277VAC	1	28 W	1	EC5NST528CU110R	**780U68**
	2	54 W	1	EC5NST554CU210R	**780U69**
Lutron EcoSystem(R) H-Series					
120/277V AC	1	14 W	1	EHDT514MU110	**18C869**
	1	21 W	1	EHDT521MU110	**18C867**
	1	28 W	1	EHDT528MU110	**18C863**
	2	28 W	1	EHDT528MU210	**18C864**
120 to 277V AC	2	14 W	1	EHDT514MU210	**18C870**
	2	21 W	1	EHDT521MU210	**18C868**

Input Voltage	Number of Bulbs Supported	Max. Bulb Watts	Ballast Factor	Mfr. Model	Item No.
T5HO Bulb Type					
120/277V AC	2	39 W	1	EHDT539MU210	**18C862**
120 to 277V AC	1	24 W	1	EHDT524MU110	**18C865**
	1	39 W	1	EHDT539MU110	**18C861**
	1	54 W	1	EHDT554MU110	**18C859**
	2	24 W	1	EHDT524MU210	**18C866**
	2	54 W	1	EHDT554MU210	**18C860**
T8 Bulb Type					
120/277V AC	1	17 W	1	EHDT817MU110	**18C857**
	1	25 W	1	EHDT825MU110	**18C855**
120 to 277V AC	1	32 W	1	EHDT832MU110	**18C849**
	1	32 W	1.17	EHDT832MU117	**18C851**
	2	17 W	1	EHDT817MU210	**18C858**
	2	25 W	1	EHDT825MU210	**18C856**
	2	32 W	1	EHDT832MU210	**18C850**
	2	32 W	1.17	EHDT832MU217	**18C852**
	3	32 W	1	EHDT832GU310	**18C853**
	3	32 W	1.17	EHDT832GU317	**18C854**
Lutron Hi Lume(R) 3D					
T5 Bulb Type					
120 to 277V AC	1	14 W	1	H3DT514CU110	**4LFW6**
	1	21 W	1	H3DT521CU110	**4LFW8**
	1	28 W	1	H3DT528CU110	**4LFW4**
	1	36 W	1	H3DT536GU110	**6ZER8**
	1	40 W	1	H3DT540GU110	**6ZET0**
	1	50 W	1	H3DT550GU110	**6ZET2**
	2	14 W	1	H3DT514CU210	**4LFW7**
	2	21 W	1	H3DT521CU210	**4LFW9**
	2	28 W	1	H3DT528CU210	**4LFW5**
	2	36 W	1	H3DT536GU210	**6ZER9**
	2	40 W	1	H3DT540GU210	**6ZET1**
	2	50 W	1	H3DT550GU210	**6ZET3**
	3	40 W	1	H3DT540GU310	**6ZET9**
T5HO Bulb Type					
120 to 277V AC	1	24 W	1	H3DT524CU110	**6ZER2**
	1	39 W	1	H3DT539CU110	**6ZER4**
	1	54 W	1	H3DT554CU110	**6ZER6**
	2	24 W	1	H3DT524CU210	**6ZER3**
	2	39 W	1	H3DT539CU210	**6ZER5**
	2	54 W	1	H3DT554CU210	**6ZER7**
T8 Bulb Type					
120 to 277V AC	1	17 W	1	H3DT817GU110	**18C847**
	1	17 W	1	H3DT817CU110	**4LFV6**
	1	17 W	1.17	H3DT817CU117	**4LFX6**
	1	25 W	1	H3DT825CU110	**4LFV8**
	1	25 W	1.17	H3DT825CU117	**4LFX4**
	1	32 W	1	H3DT832CU110	**4LFW1**
	1	32 W	1.17	H3DT832CU117	**4LFX1**
	1	32 W	1	H3DT832GU110	**5NUJ0**
	1	40 W	1	H3DT840CU110	**6ZER0**
	2	17 W	1	H3DT817GU210	**18C848**
	2	17 W	1	H3DT817CU210	**4LFV7**
	2	17 W	1.17	H3DT817CU217	**4LFX7**
	2	25 W	1	H3DT825CU210	**4LFV9**
	2	25 W	1.17	H3DT825CU217	**4LFX5**
	2	32 W	1	H3DT832CU210	**4LFW2**
	2	32 W	1.17	H3DT832CU217	**4LFX2**
	2	32 W	1	H3DT832GU210	**5NUJ1**
	2	40 W	1	H3DT840CU210	**6ZER1**
	3	17 W	1	H3DT817GU310	**6ZET7**
	3	17 W	1.17	H3DT817GU317	**6ZET8**
	3	32 W	1	H3DT832GU310	**4LFW3**
	3	32 W	1.17	H3DT832GU317	**4LFX3**

1FYF3

PHILIPS ADVANCE

Line-Voltage Continuous Dimming Fluorescent Ballasts

Line-voltage continuous dimming ballasts are compatible with line-voltage continuous dimming controls. They receive control signals through their power leads, so they don't require any extra wiring to connect them to the lighting controls. The ballasts allow a fixture's light output to be adjusted from 100% light output all the way down to the ballasts' lowest light output setting and are used in fluorescent fixtures in conference rooms, private offices, auditoriums, and other areas where lights will be dimmed infrequently.

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast					Mfr. Model	Item No.
					F17T8	F25T8	F28T8	F32T8	F32T8U		
Programmed Ballast Start Type											
Advance Mark 10(R) Powerline											
120V AC	32 W	0.05 to 1	T8	1	1	1	1	1	1	REZ-132-SC	**1FYF3**
	32 W	0.05 to 1	T8	2	2	2	2	2	2	REZ-2S32-SC	**3VK03**
	32 W	0.05 to 0.97	T8	2, 3	3	2	3	3	3	REZ-3S32-SC	**3VK04**
277V AC	32 W	0.05 to 1	T8	2	2	2	2	2	2	VEZ-2S32-SC	**3VK07**
	32 W	0.05 to 0.97	T8	2, 3	3	2	3	3	3	VEZ-3S32-SC	**3VK08**

34GN61

Current PHILIPS ADVANCE

0-10V Continuous Dimming Fluorescent Ballasts

These continuous dimming ballasts are compatible with 0-10V continuous dimming controls and use a low-voltage analog control signal to dim a light fixture's light output to any level between 100% light output and the ballasts' lowest light output setting. They are used in fluorescent fixtures in a wide variety of settings, but may not be suitable for lighting systems that require long wire runs to connect the ballasts to the lighting controls.

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast F25T8	F26DBX	F28T5	F28T8	F32T8	F32T8U	Mfr. Model	Item No.
Programmed/Rapid Ballast Start Type												
Current UltraStart(R)												
120 to 277V AC	114 W	0.88	T8	3, 4	3 or 4	—	4	3 or 4	3 or 4	—	GE432MVPS-N-V03	**12V432**
Programmed Ballast Start Type												
Advance Mark 10(R) Powerline												
120V	49 W	0.05	Compact Fluorescent, T4	1	—	1	—	—	—	—	REZ-1T42-M2-LD-K	**1FYF6**
	58 W	0.05	Compact Fluorescent, T4	1, 2	—	1 or 2	—	—	—	—	REZ-2Q26-M2-LD-K	**1FYF5**
Advance Mark 7(R) 0-10V												
120 to 277V AC	32 W	0.05 to 1	T8	1	1	—	—	1	1	1	IZT-132-SC	**5KB39**
	32 W	0.05 to 1	T8	2	2	—	0	2	2	2	IZT-2PSP32-SC	**34GN61**
	28 W	0.03 to 1	T5	2	—	—	2	—	—	—	IZT-2S28-D	**20JT67**
	32 W	0.03 to 1	T8	3	3	—	0	3	3	3	IZT-3PSP32-SC	**34GN62**
Rapid Ballast Start Type												
Current UltraStart(R)												
120 to 277V AC	58 W	0.88	T5, T8	1, 2	1 or 2	—	2	1 or 2	1 or 2	—	GE232MVPS-N-V03	**12V430**

Current PHILIPS ADVANCE

2-Phase Step Dimming Fluorescent Ballasts

2LMW6

Two-phase step dimming ballasts are compatible with two-phase step dimming controls and are used in fluorescent fixtures in classrooms, hallways, and other settings that don't require a wide range of dimming. They alter the supply voltage to dim the fixtures' light output to specific levels, for example 100% (full brightness), 50%, and 0% (off).

Input Voltage	Max. Bulb Watts	Ballast Factor	Ballast Lamp Type	Number of Bulbs Supported	Number of Bulbs per Ballast F28T5	F35T5	F17T8	Mfr. Model	Item No.
Programmed Ballast Start Type									
Advance Optanium									
120 to 277V AC	28 W	0.95	T5	1, 2	2	1	2	IOP-2S28-95-SC-SD	**2LMW6**
	28 W	1.15	T5	1, 2	1 or 2	1	1 or 2	IOP-2S28-115-SC-SD	**2LMW7**
Current UltraStart(R)									
120 to 277V AC	54 W	0.99 to 1.05	T5	4	0	—	0	GE454MVPS90-E-S	**34GN99**

35JE75

5ZND2

4KGH5

Rapid-Start Electronic Fluorescent Ballasts

LumaPro FULHAM PHILIPS ADVANCE Current

Rapid-start electronic fluorescent ballasts turn on lights near-instantaneously. They are less damaging to light bulbs than instant-start ballasts and are used in fluorescent fixtures that will be turned on or off frequently via occupancy sensors and other lighting controls that automatically operate the lights. These ballasts are not dimmable.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast						Mfr. Model	Item No.
Compact Fluorescent Bulbs					**F9BX**	**F13DBX**	**F18BX**	**F26DBX**	**F32BX**	**F42BX**		
LumaPro(R)												
120V AC	13 W	12W	0.8	1	—	1	—	—	—	—	16X951	**16X951**
	13 W	29W	0.87	2	2	2	—	—	—	—	16X952	**16X952**
	18 W	31W	0.88	1, 2	—	—	2	—	—	—	16X953	**16X953**
Fulham Firehorse PONY												
120/230V AC	32 W	20 to 31W	0.842 to 1.046	1	—	—	—	—	—	—	NPY-120-126-CFL	**35JE75**
	39 W	26 to 38W	0.966 to 1.013	2	—	—	—	—	—	—	NPY-120-218-CFL	**35JE76**
Advance SmartMate(R)												
120 to 277V AC	16 W	29W	1	1, 2	—	1 or 2	—	—	—	—	ICF-2S13-H1-LD-K	**4ZZ33**
	21 W	35W	0.95	1, 2	—	—	1 or 2	—	—	—	ICF-2S18-H1-LD-K	**4ZZ34**
	26 W	51W	1	1, 2	—	—	—	1 or 2	1	1	ICF-2S26-H1-LD-K	**4ZZ35**
	70 W	93W	0.97	2	—	—	—	2	2	2	ICF-2S42-M2-LD-K	**5YG67**
T5 Bulb Type					**F13T5**	**F14T5**	**F15T8**	**F21T5**				
Fulham Firehorse PONY												
120V AC	30 W	23 to 30W	1.074	1, 2	2	2	2	1	—	—	SC-120-213-LT5	**35JE77**
T12 Bulb Type					**F25T12**	**F30T12**	**F34T12**	**F40T12**	**F48T12**	**F60T12**		
Current ProLine(TM)												
120 to 277V AC	75 W	28W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE240PS-MV-N	**4PRX3**
Advance Centium(TM)												
120 to 277V AC	40 W	72W	0.85	2	—	2	2	2	—	—	ICN-2S40-N	**4FZN3**
	110 W	186 to 191W	0.9	1, 2	—	—	—	—	2	1 or 2	ICN-2S110-SC	**4VMY7**
Advance AmbiStar(TM)												
120V AC	40 W	72W	0.85	2	—	2	2	2	—	—	RELB-2S40-N	**5ZND2**
LumaPro(R)												
120 to 277V AC	110 W	180W	0.89	2	—	—	—	—	2	2	4KGH5	**4KGH5**

4KGG3

Current LumaPro FULHAM PHILIPS ADVANCE

Programmed Rapid-Start Electronic Fluorescent Ballasts

Programmed rapid-start electronic fluorescent ballasts turn on lights near-instantaneously. These non-dimmable ballasts are more energy efficient and less damaging to light bulbs than instant-start ballasts and rapid-start ballasts. They are used in fluorescent fixtures that will be turned on or off frequently via occupancy sensors and other lighting controls that automatically operate the lights.

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast						Mfr. Model	Item No.
Compact Fluorescent Ballast Bulb Type					**F13BX**	**F13DBX**	**F18DBX**	**F26DBX**	**F32TBX**	**F40BX**		
Current Multi-Volt ProLine												
120 to 277V AC	13 W	29W	1	2	1	1	1	—	—	—	GEC213-MVPS-3W	**2XKV9**
	18 W	39W	1	2	—	—	2	1	—	—	GEC-218-MVPS-3W	**2XKW1**
	26 W	54W	1	2	—	—	—	2	1	—	GEC226-MVPS-3W	**2XKW2**
	42 W	43W	0.99	2	—	—	—	—	2	1	GEC-242-MVPS-3W	**6DGL0**
LumaPro(R)												
120 to 277V AC	13 W	32W	1	1, 2	1 or 2	1 or 2	—	—	—	—	4KGJ7	**4KGJ7**
	18 W	36W	0.94	1, 2	1 or 2	—	—	—	—	—	16X954	**16X954**
	18 W	40W	1.1	1, 2	—	1 or 2	1 or 2	—	—	—	16X959	**16X959**
	26 W	56W	0.87	1, 2	—	—	—	1 or 2	1	—	4KGJ9	**4KGJ9**
	26 W	53W	0.86	1, 2	—	—	—	1 or 2	—	1	16X960	**16X960**
	40 W	87W	0.88	1, 2	—	—	—	—	—	1 or 2	16X956	**16X956**
	42 W	88W	0.92	1, 2	—	—	—	2	—	1 or 2	16X961	**16X961**
	42 W	88W	0.92	2	—	—	—	2	2	2	4KGL2	**4KGL2**
Compact Fluorescent, 2D, T5, T5HO Ballast Bulb Type					**F13BX**	**F18BX**	**F212D**	**F26DBX**	**F282D**	**F39BX**		
Fulham Firehorse RaceHorse												
120 to 277V AC	57 W	17 to 59W	0.88 to 1.06	1, 2	1 or 2	2	1 or 2	1 or 2	1	1	RHA-UNV-226-K	**35JE73** *
	57 W	17 to 59W	0.88 to 1.44	1, 2	1 or 2	2	1 or 2	1 or 2	1	1	RHA-UNV-226-C	**35JE74**
T5 Ballast Bulb Type					**F14T5**	**F24T5**	**F28T5**	**F54T5**	**F55BX**	**F58T8**		
Advance Centium(TM)												
120 to 277V AC	28 W	62 to 63W	1.03	1, 2	1 or 2	—	1 or 2	—	—	—	ICN-2S28-N	**5AAL4**
	28 W	63 to 64W	1.03	1, 2	1 or 2	—	1 or 2	—	—	—	ICN-2S28-T	**1FYF7**
Current UltraStart(R)												
347 to 480V AC	118 W	63W	1	1, 2	—	—	—	1 or 2	—	1 or 2	GE254PS347/480-F	**26X010**
120 to 277V AC	28 W	41 to 60W	0.96	1, 2	2	1 or 2	1 or 2	—	—	—	GE-228-MV-PS-N-MC	**22EM06**
	54 W	104 to 105W	1	1, 2	—	—	—	1 or 2	—	—	GE254-MV-PS-A	**42W128**
	222 W	63W	1	1, 2, 3, 4	—	—	—	1, 2, 3, or 4	—	1, 2, 3, or 4	GE454-MV-PS90-F	**42W129**
LumaPro(R)												
120 to 277V AC	39 W	85 W	1	2	—	1 or 2	—	—	—	—	4KGG1	**4KGG1**
	39 W	87W	1	2	—	1 or 2	—	—	—	—	4KGG2	**4KGG2**
	55 W	120 W	1	2	—	—	—	1 or 2	1 or 2	—	4KGG3	**4KGG3**
	55 W	228 W	1	4	—	—	—	2, 3 or 4	2, 3 or 4	—	4KGE7	**4KGE7**
T5HO Ballast Bulb Type					**F24T5**	**F39T5**	**F50BX**	**F54T5**	**F55BX**	**FC12T5**		
Advance Centium(TM)												
120 to 277V AC	24 W	52W	1	1, 2	1 or 2	1	—	—	—	—	ICN-2S24-T	**3CE44**
	39 W	85 to 87W	1	1, 2	1 or 2	1 or 2	—	—	—	—	ICN-2S39-T	**3CE45**
347 to 480V AC	54 W	119 to 120W	1	1, 2	—	—	—	1 or 2	—	—	HCN-2S54-90C-WL	**2LMW5**
120 to 277V AC	54 W	117 to 120W	1	1, 2	—	—	—	1 or 2	—	1 or 2	ICN-2S54-T	**3CE46**
	54 W	117 to 119W	1	1, 2	—	—	1 or 2	1 or 2	1 or 2	—	ICN-2S54-90C-N	**24W561**
	54 W	234 to 240W	1	3, 4	—	—	—	3 or 4	—	—	ICN-4S54-90C-2LS-G	**1FYE5**
T8 Ballast Bulb Type					**F17T8**	**F25T8**	**F28T8**	**F32T8**	**F40T8**	**F58T8**		
Advance Optanium												
120 to 277V AC	32 W	55 to 56W	0.89	1, 2	1 or 2	1 or 2	2	1 or 2	—	—	IOP-2PSP32-N	**13Y375**
	32 W	45 to 46W	0.89	1, 2	1 or 2	1 or 2	2	1 or 2	1	—	IOP-2PSP32-LW-N	**13Y376**
	32 W	84 to 85W	0.88	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	IOP-3PSP32-SC	**5KNJ2**
	32 W	71W	0.65	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	IOP-3PSP32-LW-SC	**29NT97**
	32 W	109 to 110W	0.88	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	IOP-4PSP32-SC	**5KNJ3**
	32 W	93 to 94W	0.71	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	IOP-4PSP32-LW-SC	**29NT98**
Current UltraStart(R)												
120 to 277V AC	59 W	19W	0.88	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	GE232-MV-PS-N	**2DCX1**
Fulham Firehorse IceHorse												
120 to 277V AC	157 W	66 to 157W	1	1, 2	—	—	—	—	—	1 or 2	IH2-UNV-270-T8	**35JE71**
	99 W	30 to 99W	1	1, 2	—	1 or 2	—	1 or 2	1 or 2	—	IH1-UNV-232-T8	**35JE70**
LumaPro(R)												
120 to 277V AC	40 W	56W	0.88	2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	4KGD8	**4KGD8**
T8HO Ballast Bulb Type					**F40T8**	**F48T8**	**F60T8**	**F72T8**	**F96T8**			
Advance Centium(TM)												
120 to 277V AC	86 W	178 to 182W	1	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	ICN-2S86-SC	**5KB48**
T8, T12 Ballast Bulb Type					**F42/F48T12**	**F48T12**	**F48T8**	**F60T12**	**F60T8**			
Fulham Firehorse IceHorse												
120 to 277V AC	145 W	54 to 145W	0.49	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	IH3-UNV272T12HO	**35JE72**
T12 Ballast Bulb Type					**F48T12**	**F60T12**	**F72T12**	**F96T12**				
Current ProLine(TM)												
120 to 277V AC	204 W	103W	0.88	1, 2	2	2	2	1 or 2	—	—	GE296HO-MVPS-N	**39WE25**

** Kit includes ballast, snap-on-plate, required wires, wire removing tool, nuts, and screw.*

2MCX5

PHILIPS ADVANCE Current LumaPro FULHAM Watran

Instant-Start Electronic Fluorescent Ballasts

Instant-start electronic fluorescent ballasts turn on lights immediately and are used in fluorescent fixtures in warehouses and other areas where lights are left on for long periods of time. These non-dimmable ballasts provide high voltage at start-up and should not be used with occupancy sensors or other lighting controls that turn lights on or off frequently.

Input Voltage	Max. Bulb Watts	Ballast Factor	Number of Bulbs Supported	Number of Bulbs per Ballast						Brand	Mfr. Model	Item No.
Compact Fluorescent Bulbs				**F18BX**	**F24BX**	**F32BX**	**F36BX**	**F39BX**	**F40BX**			
120 to 277V AC	40 W	0.88	1, 2	—	—	—	—	—	1 or 2	Advance Centium	ICN-2TTP40-SC	**1XWJ5**
	40 W	0.88	3	—	—	—	—	—	3	Advance Centium	ICN-3TTP40-SC	**1XWJ6**
	40 W	0.99	2	—	—	—	—	—	2	Current UltraMax(R)	GEC240MAX-A	**6TWG8**
	40 W	0.99	3	—	—	3	—	—	3	Current UltraMax(R)	GEC340MAX-A	**6TWG9**
	40 W	0.88	1, 2	1 or 2	1 or 2	—	1 or 2	1 or 2	1 or 2	LumaPro(R)	16X955	**16X955**
	40 W	0.88	2, 3	—	—	—	2 or 3	2 or 3	2 or 3	LumaPro(R)	16X957	**16X957**
T5, T8, T12 Bulb Type				**F15T8**	**F15T12**	**F28T5**	**F32T8**	**F39T5**	**F96T12**			
120V AC	30 W	1.03	1	—	—	1	—	—	—	Fulham Firehorse WorkHorse	WH1-120-L	**35JE49**
	28 W	1.1	1, 2	1 or 2	1	—	—	—	—	Fulham Firehorse WorkHorse	WH22-120-C	**35JE56**
	32 W	0.8	1, 2	1 or 2	1	—	—	—	—	Fulham Firehorse WorkHorse	WH22-120-L	**35JE55**
	38 W	0.87	1, 2	1	1	1	1	—	—	Fulham Firehorse WorkHorse	WH2-120-C	**35JE52**
	38 W	0.87	1, 2	1	1	1	1	—	—	Fulham Firehorse WorkHorse	WH2-120-L	**35JE51**
277V AC	39 W	0.9	1, 2	1	1	1	1	—	—	Fulham Firehorse WorkHorse	WH2-277-L	**35JE53**
	39 W	0.9	1, 2	1	1	1	1	—	—	Fulham Firehorse WorkHorse	WH2-277-C	**35JE54**
	62 W	1.1	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham Firehorse WorkHorse	WH3-277-L	**35JE59**
	62 W	1.1	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham Firehorse WorkHorse	WH3-277-C	**35JE60**
120V AC	62 W	0.93	1, 2	1	1	2	1	1	—	Fulham Firehorse WorkHorse	WH4-120-L	**35JE63**
	73 W	0.93	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham Firehorse WorkHorse	WH3-120-L	**35JE57**
	73 W	0.99	1, 2	1 or 2	1 or 2	—	1 or 2	1	—	Fulham Firehorse WorkHorse	WH3-120-C	**35JE58**
277V AC	108 W	0.92	1, 2, 3, 4	1 or 2	1 or 2	3 or 4	2	1 or 2	1 or 2	Fulham Firehorse WorkHorse	WH6-277-L	**35JE67**
	113 W	1.15	1, 2, 3, 4	3 or 4	2, 3, or 4	—	3 or 4	2 or 3	1 or 2	Fulham Firehorse WorkHorse	WH5-277-L	**35JE65**
120V AC	127 W	0.87	1, 2, 3, 4	3 or 4	2, 3, or 4	—	3 or 4	2 or 3	1 or 2	Fulham Firehorse WorkHorse	WH5-120-L	**35JE64**
	242 W	1.17	1, 2, 3, 4	—	—	—	—	4	3	Fulham Firehorse WorkHorse	WH7-120-L	**35JE68**
	65 W	0.8	1, 2, 3, 4	2, 3, or 4	2 or 3	—	—	1	—	Fulham Firehorse WorkHorse	WH33-120-L	**35JE61**
	65 W	0.87	1, 2, 3, 4	2, 3, or 4	2 or 3	—	—	1	—	Fulham Firehorse WorkHorse	WH33-120-C	**35JE62**
	95 W	1.15	1, 2, 3, 4	1 or 2	1 or 2	3 or 4	2	1 or 2	1 or 2	Fulham Firehorse WorkHorse	WH6-120-L	**35JE66**
	241 W	0.98	1, 2, 3, 4, 5, 6	5 or 6	4, 5, or 6	—	6	3, 4, or 5	2	Fulham Firehorse WorkHorse	WH8-120-L	**35JE69**
T8 Bulb Type				**F17T8**	**F25T8**	**F28T8**	**F32T8**	**F40T8**	**F96T8**			
120 to 277V AC	32 W	0.91	1	1	1	1	1	—	—	Advance Centium(TM)	ICN-1P32-N	**3HHH4**
	32 W	0.88	1	1	1	1	1	—	—	Advance Centium(TM)	ICN-132-MC	**5KB44**
	32 W	0.89	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	Advance Centium(TM)	ICN-2P32-N	**2MCX5**
	32 W	0.88	2	2	2	2	2	—	—	Advance Centium(TM)	ICN-2M32-MC	**5KB46**
	32 W	0.88	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Centium(TM)	ICN-3P32-N	**1VN21**
	32 W	0.89	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Centium(TM)	ICN-4P32-N	**1VN22**
	32 W	0.91	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-N	**5PTN3**
	32 W	0.77	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-LW-N	**5PTN5**
	32 W	1.18	1	1	1	1	1	—	—	Advance Optanium	IOPA-1P32-HL-N	**5PTN7**
	32 W	0.89	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOP-2P32-HL-N	**1FEW2**
	32 W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOPA-2P32-N	**5PTN4**
	32 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	Advance Optanium	IOPA-2P32-LW-N	**5PTN6**
	59 W	0.87	1, 2	—	—	—	—	—	1 or 2	Advance Optanium	IOP-2P59-N	**1XWJ3**
	32 W	0.89	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	—	—	Advance Optanium	IOP-3P32-HL-N	**1FEW3**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Optanium	IOPA-3P32-N	**21AN20**
	32 W	0.77	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Advance Optanium	IOPA-3P32-LW-N	**21AN21**
	32 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOPA-4P32-N	**36N040**
	32 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOPA-4P32-LW-N	**41H214**
	32 W	0.89	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Advance Optanium	IOP-4P32-HL-SC	**36ND50**
	145 W	0.82	1, 2	—	—	—	—	1 or 2	1 or 2	Current ProLine(TM)	GE286MAXHO-N	**14H321**
120V AC	53 W	0.83	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	Current ProLine(TM)	GE232-120-RES	**4XLC4**
	105 W	0.79	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	Current ProLine(TM)	GE432-120-RES	**4XLC5**
120 to 277V AC	108 W	0.87	1, 2	—	—	—	—	1 or 2	1 or 2	Current UltraMax(R) P	GE259MAXP-N-ULTRA	**3CB72**
347V AC	48 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	Current UltraMax(R)	GE-232-MAX347-L	**4XLC9**
	53 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	Current UltraMax(R)	GE-232-MAX347-N	**4XLC6**
120 to 277V AC	56 W	0.88	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	Current UltraMax(R) G	GE232MAX-G-N	**2VEW9**
	32 W	0.77	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	Current UltraMax(R) P	GE332-MAX-L/ULTRA	**5GVC0**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	Current UltraMax(R) P	GE-332-MAX-H/ULTRA	**5GVC2**
	81 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	Current UltraMax(R) G	GE332MAX-G-N	**4PRW8**
347V AC	106 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	Current UltraMax(R)	GE-432-MAX347-N	**4XLC8**
120 to 277V AC	113 W	0.87	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Current UltraMax(R) G	GE432MAX-G-N	**4PRX1**
	148 W	1.18	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	Current UltraMax(R) P	GE432MAXP-H-ULTRA	**2XKW6**
347V AC	96 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	Current UltraMax(R)	GE-432-MAX347-L	**4XLD2**
120 to 277V AC	25 W	0.77	1	1	1	1	1	—	—	Current UltraMax(R) P	GE132MAXP-L-ULTRA	**2VEW6**
	28 W	0.87	1	1	1	1	1	—	—	Current UltraMax(R) P	GE132MAXP-N-ULTRA	**2RTZ3**
	49 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	Current UltraMax(R) P	GE232MAXP-L-ULTRA	**2VEW7**
	53 W	0.77	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	—	—	Current UltraMax(R) P	GE232MAXP-N-ULTRA	**2VEW8**
	76 W	1.18	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	—	Current UltraMax(R) P	GE232MAXP-H-ULTRA	**5GVA9**
	32 W	0.87	2, 3	2 or 3	2 or 3	2 or 3	2 or 3	2 or 3	—	Current UltraMax(R) P	GE332MAXP-N-ULTRA	**5GVC1**
	101 W	0.77	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	—	Current UltraMax(R) P	GE432MAXP-L-ULTRA	**5GVC3**
	110 W	0.88	3, 4	3 or 4	3 or 4	3 or 4	3 or 4	—	—	Current UltraMax(R) P	GE432MAXP-N-ULTRA	**5GVC4**
	40 W	1.18	2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	LumaPro(R)	4KGE4	**4KGE4**
	40 W	0.89	2	1 or 2	1 or 2	1 or 2	1 or 2	1	—	LumaPro(R)	4KGL4	**4KGL4**
	59 W	0.83	2	—	—	—	—	—	1 or 2	LumaPro(R)	4KGF7	**4KGF7**
	40 W	1.18	3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	LumaPro(R)	4KGE5	**4KGE5**
	40 W	0.88	3	2 or 3	2 or 3	2 or 3	2 or 3	2	—	LumaPro(R)	4KGF5	**4KGF5**
	40 W	1.16	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro(R)	4KGE6	**4KGE6**
	40 W	0.88	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro(R)	4KGF6	**4KGF6**
	40 W	0.77	4	3 or 4	3 or 4	3 or 4	3 or 4	3	—	LumaPro(R)	4KGK9	**4KGK9**
	40 W	0.89	1, 2	2	2	1 or 2	2	1	—	Watran	LPT80210	**451F82**
	40 W	0.98	1, 2	1	2	1 or 2	1	1	—	Watran	LPT80211	**451F83**
	40 W	0.89	1, 2, 3, 4	4	4	1, 2, 3, or 4	4	3	—	Watran	LPT80215	**451F84**
T9 Bulb Type				**FC8T9**	**FC12T9**							
120V AC	32 W	0.89	2	2	2	—	—	—	—	Watran	80227	**451F97**
T12 Bulb Type				**F48T12**	**F60T12**	**F64T12**	**F72T12**	**F84T12**	**F96T12**			
120 to 277V AC	75 W	0.88	1, 2	—	—	—	1 or 2	—	1 or 2	Advance Centium(TM)	ICN-2P60-N	**4VMY6**
	141 W	0.87	1, 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	Current ProLine(TM)	GE-260-IS-MV-N	**4PRX4**

Preheat-Start Magnetic Fluorescent Ballasts

PHILIPS ADVANCE

Preheat-start magnetic fluorescent ballasts take a few seconds to turn on light bulbs. These ballasts have a longer lifespan and are less damaging to bulbs than trigger-start ballasts.

3V983

6V834

Input Voltage	Max. Bulb Watts	Input Watts	Ballast Factor	Number of Bulbs Supported	Number of Lamps per Ballast			Mfr. Model	Item No.
Compact Fluorescent					**F212D**	**F26DBX**	**F282D**		
120V AC	28 W	26W	0.83	1	1	1	1	H-1Q26-TP-W	**3V983**
T5, T9, T12					**F4T5**	**F6T5**	**F8T5**		
120V AC	8 W	11W	1.08	1	1	1	1	LC-4-9-C	**6V834**

Sign Ballasts

PHILIPS ADVANCE

Sign ballasts provide power to light up T8HO or T12HO high-output light bulbs used in indoor and outdoor signs. They withstand cold temperatures, rain, and other harsh weather. These ballasts are designed power specific quantities and lengths of bulbs. When one bulb in the circuit fails, the other bulbs will stay lit so the burnt-out bulb can be quickly identified and replaced.

35XR86

Voltage	Input Watts	Number of Bulbs Supported	Min. Total Bulb Footage	Max. Total Lamp Footage	Min. Start Temp.	Series	Mfr. Model	Item No.
120/277V AC	136 W	2	2 ft	16 ft	-20°F	SignPRO	ISB-0216-12-E	**35XR86**
120/277V AC	273 W	4	4 ft	32 ft	-20°F	SignPRO	ISB-0432-14-E	**35XR87**
120/277V AC	348 W	4	10 ft	40 ft	-20°F	SignPRO	ISB-1040-14-E	**35XR88**
120/277V AC	415 W	4, 5, 6	8 ft	48 ft	-20°F	SignPRO	ISB-0848-46-E	**35XR89**

4D241

HUBBELL® Wiring Device-Kellems

Fluorescent Starters

2-pin ceramic condensers. UL Listed. CSA Certified.

Ballast Max. Lamp Watts	Replacement For	Mfr. Model	Item No.
8	FS-5	FS5	**4D244**
25	FS-25	FS25	**4D241**
40	FS-4	FS4	**4D242**

PHILIPS ADVANCE Current

Electronic HID Ballasts

Electronic HID ballasts are more energy-efficient and less damaging to HID bulbs than other types of HID ballasts, and they provide accurate power regulation for consistent light output and light quality across the life of the bulbs. They also tend to be smaller and weigh less than other styles of HID ballasts. For use with metal-halide HID bulbs.

4HGJ6

Input Voltage	Max. Bulb Watts	ANSI Code	Ballast Start Type	Operating Amps @ 120V	Operating Amps @ 277V	Side Exit Leads w/Mounting Feet Mfr. Model	Side Exit Leads Item No.	Bottom Exit Leads w/Mounting Studs Mfr. Model	Bottom Exit Leads Item No.
Advance e-Vision(TM)									
120 to 277V AC	20 W	C156/M156	Pulse	0.2 A	9.0 A	—	—	IMH-G20-G-BLS	**30PL08**
120V AC	22 W	C175	Pulse	0.23 A	—	RMH-20-K-LF	**30PL01**	RMH-20-K-BLS	**30PL09**
120/277V AC	39 W	C130/M131	Pulse	0.37 A	0.17 A	—	—	IMH-39-G-BLS	**4HGH9**
	39 W	C130/M130	Pulse	0.37 A	0.17 A	IMH-39-G-LF	**4HGH8**	—	—
120/277VAC	50 W	C193, M110	Pulse	0.48 A	0.22 A	IMH50GLFM	**60UM02**	—	—
120 to 277V AC	70 W	C98/M98/C139/M139/M1	Pulse	0.68 A	0.29 A	IMH-70-E-LF	**30PL06**	—	—
120/277V AC	70 W	C98/M98/C139/M139/M1	Pulse	0.66 A	0.28 A	IMH-70-G-LF	**4HGJ6**	IMH-70-G-BLS	**4HGJ7**
	70 W	C98/M98/C139/M139/M1	Pulse	0.66 A	0.28 A	IMH-70-D-LF	**4HGJ9**	IMH-70-D-BLS	**4HGK1**
	100 W	C90/M90/M140/C191	Pulse	0.92 A	0.4 A	IMH-100-D-LF	**4HGK3**	IMH-100-D-BLS	**4HGK4**
	150 W	C102/M102/C142/M142	Pulse	1.4 A	0.6 A	IMH-150-H-LF	**4HGK6**	IMH-150-H-BLS	**4HGK7**
Current Ultramax(TM) eHID									
120V AC	20 W	M156	Pulse	0.36 A	—	—	—	GEMH20-MLF-120	**2TNU7**

AcuityControls. Sensor Switch.

Ballast Discriminator

Handheld device confirms ballast type when pointed at a light fixture, the device turns green if the fixture is powered by an electronic ballast, and it turns orange if the fixture is powered by a magnetic ballast.

Mfr. Model	Item No.
BD1	**6DXD6**

Indoor Quiet HID Ballasts

PHILIPS ADVANCE

The inside of the housing on these HID ballasts is insulated to eliminate or greatly reduce the hum generated by HID ballasts. Also known as F-can ballasts, they are used in HID light fixtures in indoor areas where noise must be minimized.

Input Voltage	Max. Bulb Watts	ANSI Code	Ballast Start Type	Operating Amps @ 120V	Operating Amps @ 277V	Brand	Mfr. Model	Item No.
For Use With High Pressure Sodium HID Bulbs								
120/277V AC	70 W	S62	Pulse	0.82 A	0.36 A	Advance	72C7984-NP-001	**6V769**
For Use With Metal Halide HID Bulbs								
120/277V AC	400 W	M59	Probe	3.9 A	1.7 A	Advance	72C6082-NP-001	**1N109**
120/277V AC	100 W	M90/M140	Pulse	1.1 A	0.48 A	Advance	72C5381-NP-001	**3V564**
120/277V AC	250 W	M58	Probe	2.6 A	1.12 A	Advance	72C5782-NP-001	**3V565**
120/277V AC	70 W	M98	Pulse	0.85 A	0.37 A	Advance	72C5282-NP-001	**3V566**
120/277V AC	175 W	M57/M107	Probe	1.75 A	0.75 A	Advance	72C5581-NP-001	**6V768**

3V564

1A029

PHILIPS ADVANCE · LumaPro · Current

HID Ballast Kits

HID ballast kits contain HID ballasts, capacitors, ignitors, and other parts that are used to maintain HID light fixtures. They are used when replacing old ballasts and their coordinating components in HID fixtures.

Max. Bulb Watts	Ballast Start Type	Input Voltage	ANSI Code	Brand	Item No.
Metal Halide					
39 W	Pulse	120/277V AC	M130	Advance	**6CAT2**
50 W	Pulse	120 to 277V AC	M110	Advance	**2LMV8**
50 W	Pulse	120 to 277V AC	M110	LumaPro	**6XPW1**
50 W	Pulse	120 to 277V AC	M110	Advance	**6CAT3**
70 W	Pulse	120 to 277V AC	M98	LumaPro	**1XUD6**
70 W	Pulse	120 to 277V AC	M98/M143	Advance	**3LE31**
100 W	Pulse	120 to 277V AC	M90	LumaPro	**1XUD7**
100 W	Pulse	120 to 277V AC	M90/M140	Advance	**3V555**
150 W	Pulse	120 to 277V AC	M102/M142	Advance	**1FYG1**
150 W	Pulse	120 to 277V AC	M102/M142	LumaPro	**4CRJ2**
175 W	Probe	120 to 277V AC	M57	LumaPro	**1XUD8**
175 W	Probe	120/208/240/277/480V AC	M57	LumaPro	**1XUD9**
175 W	Probe	120 to 277V AC	M57/M107	Advance	**3A531**
175 W	Pulse	120/208/240/277/480V AC	M137/M152	LumaPro	**1XUK1**
175 W	Pulse	120 to 277V AC	M137/M152	LumaPro	**4CRJ6**
175 W	Pulse	120 to 277V AC	M137/M152	Advance	**6CAT5**
200 W	Pulse	120 to 277V AC	M136	LumaPro	**4CRJ5**
200 W	Pulse	120 to 277V AC	M136	Advance	**4PL59**
250 W	Probe	120/208/240/277/480V AC	M58	Advance	**1FYG2**
250 W	Probe	120 to 277V AC	M58	Advance	**1N108**
250 W	Probe	120/208/240/V AC	M58	LumaPro	**1XUE1**
250 W	Probe	120/208/240/277/480V AC	M58	LumaPro	**1XUE2**
250 W	Probe	120 to 277V AC	M58	Advance	**3A532**
250 W	Probe	120 to 277V AC	M58	LumaPro	**4CRJ3**
250 W	Pulse	120 to 277V AC	M138/M153	LumaPro	**4CRH2**
250 W	Pulse	120/208/240/277/480V AC	M138/M153	LumaPro	**4CRH6**
250 W	Pulse	120 to 277V AC	M138/M153	Advance	**5YG60**
320 W	Pulse	120 to 277V AC	M132/M154	LumaPro	**4CRH3**
320 W	Pulse	120/208/240/277/480V AC	M132/M154	LumaPro	**4CRH7**
320 W	Pulse	120 to 277V AC	M132/M154	Advance	**4PL60**
350 W	Pulse	120 to 277V AC	M131	LumaPro	**4CRH4**
350 W	Pulse	120/208/240/277/480V AC	M131	LumaPro	**4CRJ9**
350 W	Pulse	120 to 277V AC	M131/M171	Advance	**4PL62**
400 W	Probe	120 to 277V AC	M59	Advance	**1A029**
400 W	Probe	120/208/240/277/480V AC	M59	Advance	**1FYG3**
400 W	Probe	120 to 277V AC	M59	LumaPro	**1XUE3**
400 W	Probe	120/208/240/277/480V AC	M59	LumaPro	**1XUE4**
400 W	Probe	480V AC	M59	Advance	**6V621**
400 W	Pulse	120 to 277V AC	M59	Current	**45MV55**
400 W	Probe	120/208/240/277/480V AC	M59	Current	**48K858**
400 W	Pulse	120 to 277V AC	M135/M155	LumaPro	**4CRH5**
400 W	Pulse	120/208/240/277/480V AC	M135/M155	LumaPro	**4CRH8**
400 W	Pulse	120 to 277V AC	M135/M155	Advance	**4PL63**
400 W	Pulse	120/208/240/277/480V AC	M135/M155	Advance	**6CAT9**
400 W	Pulse	480V AC	M135/M155	Advance	**4YDZ3**
750 W	Pulse	277/347/480V AC	M149	Advance	**1ND73**
750 W	Pulse	120/208/240/277/480V AC	M149	LumaPro	**1XUK5**
750 W	Pulse	120/208/240/277/480V AC	M149	Advance	**6CAU0**
750 W	Pulse	120 to 277V AC	M149/M181	LumaPro	**4CRJ7**
1,000 W	Probe	120 to 277V AC	M47	Advance	**1A030**
1,000 W	Probe	120/208/240/277/480V AC	M47	Advance	**1FYD8**
1,000 W	Probe	120 to 277V AC	M47	LumaPro	**1XUE5**
1,000 W	Probe	120/208/240/277/480V AC	M47	LumaPro	**1XUE6**
1,000 W	Probe	480V AC	M47	Advance	**6V624**
1,000 W	Probe	120/208/240/277/480V AC	M47	Current	**12J918**
1,000 W	Pulse	120 to 277V AC	M90/M140	Current	**21GR17**
1,000 W	Pulse	120 to 277V AC	M141	Advance	**6CAU1**
1,000 W	Pulse	120/208/240/277/480V AC	M141	LumaPro	**6XPW6**
1,000 W	Pulse	347/480V AC	M141	Advance	**3ZKX1**
1,000 W	Pulse	347/480V AC	M141	Advance	**4VMY8**
1,000 W	Pulse	120/208/240/277/480V AC	M141	Current	**4YRF1**
1,100 W	Pulse	120 to 277V AC	M141	LumaPro	**4CRJ8**
1,500 W	Probe	120 to 277V AC	M48	LumaPro	**4CRJ4**
1,500 W	Probe	480V AC	M48	LumaPro	**6XPW5**
1,500 W	Probe	480V AC	M48	Advance	**6CAT4**
High Pressure Sodium					
50 W	Pulse	120 to 277V AC	S68	LumaPro	**4CRH9**
50 W	Pulse	120 to 277V AC	S68	Advance	**6V627**
50 W	Pulse	120 to 277V AC	S68	Advance	**6CAU2**
70 W	Pulse	120 to 277V AC	S62	Advance	**1A975**
70 W	Pulse	480V AC	S62	LumaPro	**6XPW7**
100 W	Pulse	120 to 277V AC	S54	Advance	**1A031**
100 W	Pulse	120 to 277V AC	S54	LumaPro	**1XUF3**
100 W	Pulse	480V AC	S54	LumaPro	**6XPW8**
150 W	Pulse	120 to 277V AC	S55	Advance	**1A032**
150 W	Pulse	120 to 277V AC	S55	LumaPro	**1XUF4**
150 W	Pulse	120/480V AC	S55	LumaPro	**4CRJ1**
150 W	Pulse	480V AC	S55	Advance	**6V760**
250 W	Pulse	120 to 277V AC	S50	Advance	**1A033**
250 W	Pulse	120/208/240/277/480V AC	S50	Advance	**1FYD9**
250 W	Pulse	120 to 277V AC	S50	LumaPro	**1XUF5**
250 W	Pulse	120/208/240/277/480V AC	S50	LumaPro	**1XUF6**
250 W	Pulse	480V AC	S50	LumaPro	**6XPW2**
400 W	Pulse	120 to 277V AC	S51	LumaPro	**1XUF7**
400 W	Pulse	120/208/240/277/480V AC	S51	LumaPro	**1XUF8**
400 W	Pulse	480V AC	S51	LumaPro	**6XPW3**
400 W	Pulse	120 to 277V AC	S51/M169	Advance	**1A034**
400 W	Pulse	120/208/240/277/480V AC	S51/M169	Advance	**1FYE1**
400 W	Pulse	480V AC	S51/M169	Advance	**6V762**
1,000 W	Pulse	120/208/240/277/480V AC	S52	Advance	**1FYE2**
1,000 W	Pulse	120 to 277V AC	S52	LumaPro	**1XUF9**
1,000 W	Pulse	120/208/240/277/480V AC	S52	LumaPro	**1XUG1**
1,000 W	Pulse	480V AC	S52	Advance	**6V763**
1,000 W	Pulse	120 to 277V AC	S52	Advance	**6V764**
1,000 W	Pulse	480V AC	S52	LumaPro	**6XPW4**
1,000 W	Pulse	120/208/240/277/480V AC	S52	Current	**48K876**

30UJ98

3HHH1

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HID Capacitors

HID capacitors install into ballasts on HID light fixtures to help prevent the bulbs in the fixtures from flickering. They help regulate the voltage and current going to the bulbs and ensure the bulbs can produce a steady light output. HID capacitors require regular replacement to ensure they continue to operate HID bulbs at full brightness.

MFD Rating	Voltage	For Use With	Dia.	H	Brand	Item No.
Dry-Film HID Capacitor						
5	300V AC	50W HPS, 35W MH Hx	1 ⅜ in	3 ¼ in	LumaPro	**30UK16**
8	300V AC	70W MH HX-HPF, R-HPF	1 ¼ in	2 ¾ in	Advance	**5ZNE1**
10	400V AC	175W MH CWA	1 ¾ in	3 ¼ in	LumaPro	**30UJ99**
10	400V AC	175W MH CWA	1 ⅜ in	3 ¾ in	Advance	**5ZND3**
11	400V AC	175W PS SCWA	1 ¾ in	3 ¼ in	LumaPro	**30UK11**
12	300V AC	100W MH Hx	1 ⅜ in	3 ¼ in	LumaPro	**30UK06**
14	300V AC	150W HPS Hx	1 ⅜ in	3 ¼ in	LumaPro	**30UK09**
14	120V AC	35W HPS Reactor	1 ⅜ in	3 ¼ in	LumaPro	**30UK35**
14	120V AC	35W HPS R-HPF	1 ¼ in	2 ¼ in	Advance	**5ZNG8**
15	400V AC	250W MH CWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK02**
15	400V AC	250W MH CWA	1 ¾ in	3 ¾ in	Advance	**5ZND5**
16	300V AC	150W MH Hx	1 ¾ in	3 ⅛ in	LumaPro	**30UK12**
16	400V AC	150W MH Hx	1 ¾ in	4 ⅝ in	LumaPro	**30UK26**
17	400V AC	250W PS SCWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK13**
17.5	300V AC	90W LPS HX-HPF, 100W MH HX-HP, 150W HPS HX-HPF	1 ⅝ in	3 ¾ in	Advance	**5ZNE7**
20	120V AC	50W HPS Reactor	1 ⅜ in	3 ¼ in	LumaPro	**30UK29**
21	400V AC	320W PS SCWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK03**
22	240V AC	150W TRI PS SCWA	1 ¾ in	3 ¼ in	LumaPro	**30UK31**
22.5	300V AC	320W PS SCWA	1 ¾ in	3 ¼ in	LumaPro	**30UK19**
22.5	400V AC	350W PS SCWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK20**
24	400V AC	400W MH CWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK01**
24	400V AC	400W MH CWA	1 ¾ in	4 13/16 in	Advance	**5ZND4**
26	330V AC	400W PS SCWA	1 ¾ in	4 ⅝ in	LumaPro	**30UK07**
26	330V AC	400W PS SCWA	1 ¾ in	4 13/16 in	Advance	**5ZNE0**
55	240V AC	150, 400W HPS CWA	1 ¾ in	4 ⅝ in	LumaPro	**30UJ98**
55	120V AC	150W HPS Reactor	1 ¾ in	4 ⅝ in	LumaPro	**30UK24**
Oil-Filled HID Capacitor						
24	480V AC	1000W MH CWA	1 ¾ in	3 ⅞ in	Advance	**3HHH1**
24	480V AC	1000W MH SCWA	1 ¾ in	3 ⅞ in	Advance	**5ZND7**
32	525V AC	1500W MH CWA	2 in	3 ¾ in	Advance	**5ZNF0**

3A533

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Ballast Ignitors

HID ballast ignitors install into HID light fixtures that have core-and-coil ballasts. They produce the initial voltage needed to light the fixtures' HID bulbs and should be replaced when the lights begin to flicker or fail to light. Not interchangeable with other brands of ballast.

Max. Bulb Watts	Min. Distance to Bulb	Max. Distance to Bulb	Item No.
Advance Val-U-Pak Plus (77L)			
High Pressure Sodium Ballast Ignitors			
150 W	5 in	2 ft	**3A533**
400 W	5 in	2 ft	**3A534**
1,000 W	15 ft	15 ft	**1N117**
1,000 W	15 ft	75 ft	**1N118**
Metal Halide Ballasts Ignitors			
400 W	2 ft	25 ft	**3V987**
LumaPro			
High Pressure Sodium Ballast Ignitors			
105 W	12 in	15 in	**1XUG3**
400 W	12 in	15 in	**1XUG4**
1,000 W	—	15 ft	**1XUG5**

780U46

Emergency Drivers for LED Fixture Arrays

- Provide at least 90 min. emergency lighting
- Fixture Dependent Lumens
- 120/277VAC input

Emergency drivers install into LED lighting fixtures that contain LED arrays that are powered by standard LED drivers. Emergency drivers help building owners meet code requirements for emergency lighting without having to install separate emergency lighting fixtures.

Max. Bulb Watts	Number of Bulbs Supported	Driver Mounting Location	CA Title 20 Compliant	Item No.
Standard Emergency LED Drivers				
Bodine				
7.5 W	1	On Top or Beside Fixture	Yes	**454R56**
10.4 W	1	Within Fixture	Yes	**454R53**
	1	On Top or Within Fixture	Yes	**454R54**
	1	On Top or Beside Fixture	Yes	**454R55**
Iota Engineering				
5 W	—	Remote Mount	No	**60CE39**
	—	Remote Mount	Yes	**60CE40**
7 W	—	Remote Mount	No	**60CE41**
10 W	—	Remote Mount	No	**60CE42**
	—	Remote Mount	Yes	**60CE43**
12 W	—	Remote Mount	No	**60CE44**
15 W	1	Within Fixture	Yes	**780U45**
	1	Within Fixture	Yes	**780U46**
	1	Remote Mount	Yes	**780U47**
20 W	—	Remote Mount	Yes	**60CE45**
Power Sentry				
10 W	2	External from Fixture	Yes	**460J95**
15 W	2	External from Fixture	Yes	**460J96**
	2	External from Fixture	Yes	**460J97**
Reduced-Profile Emergency LED Drivers				
Bodine				
6 W	1	Junction Box Mount	Yes	**61UT53**
	1	Within Fixture	Yes	**61UT54**
Iota Engineering				
5 W	—	Remote Mount	No	**60CE46**
7 W	—	Remote Mount	No	**60CE47**
10 W	—	Remote Mount	No	**60CE48**
12 W	—	Remote Mount	No	**60CE49**

788UU6

Emergency Lighting Inverters

- Provide at least 90 min. emergency lighting
- Fixture Dependent Lumens
- 120/277VAC input

Compatible with most types of lighting fixtures, including light fixtures that do not have ballasts or drivers inside the fixture. One inverter can supply backup power to multiple lighting fixtures. The inverters are mounted outside of lighting fixtures and do not need to be installed near the fixtures.

Max. Bulb Watts	Bulb Type	Battery Type	Includes	CA Title 20 Compliant	Item No.
Emergency Lighting Inverters					
Bodine					
10 W	Fluorescent, Incandescent, LED	Maintenance-Free Li-Ion	Parts kit with labels	Yes	**56RU23**
	Fluorescent, Incandescent, LED	Maintenance-Free Li-Ion	Attached Flex Conduit, Parts kit with labels	Yes	**56RU24**
	Fluorescent, Incandescent, LED	Maintenance-Free Li-Ion	Attached Dual Flex Conduit, Parts kit with labels	Yes	**56RU25**
15 W	LED	Maintenance-Free Li-Ion	Batteries	No	**788UU6**
	LED	Maintenance-Free Li-Ion	Batteries	No	**788UU7**
25 W	Fluorescent, Incandescent, LED	Nickel-Cadmium	Attached Flex Conduit, Parts kit with labels	No	**12X244**
100 W	Fluorescent, Incandescent, LED	Maintenance-Free Sealed Lead Acid	Parts kit with labels	Yes	**55MU94**
250 W	Fluorescent, Incandescent, LED	Maintenance-Free Sealed Lead Acid	Parts kit with labels	No	**56RU26**
Dual-Lite					
110 W	Fluorescent, Incandescent, LED	SLA Lead Calcium	—	Yes	**49WX99**
220 W	Fluorescent, Incandescent, LED	SLA Lead Calcium	—	Yes	**53GG47**

12X228

Emergency Ballasts for Fluorescent or LED Retrofit Light Bulbs

- Provide at least 90 min. emergency lighting
- Fixture Dependent Lumens
- 120/277VAC input

Install into lighting fixtures that contain fluorescent linear light bulbs or UL Type C LED retrofit linear light bulbs that are powered by fluorescent ballasts.

Max. Bulb Watts	Number of Bulbs Supported	Ballast Lamp Type	Initial Lumens	CA Title 20 Compliant	Item No.
Standard Emergency Ballasts					
Bodine					
40 W	1	T10, T12, T8	350 to 450	No	**12X228**
	1	T12, T8	500 to 600	No	**12X229**
42 W	1	4-Pin Compact	300 to 750	No	**34E652**
215 W	1	T12, T8	600 to 700	No	**12X230**
	1, 2	T10, T12, T8, T9	300 to 700	No	**12X235**
	1, 2	4-Pin Long Compact, T10, T12, T8	600 to 700	No	**12X240**
	1, 2	2-Pin, 2D, 4-Pin, Mini 2-Pin, Single Tube, T10, T12, T5, T5HO, T8, T9	900 to 3500	No	**12X241**
	1, 2	T10, T12, T8, T9	Up to 1400	No	**34E653**
Fulham Firehorse					
42 W	1, 2	Circline, Quad Tube, T5/T5HO, T8, Triple Tube, Twin Tube	500	Yes	**454U43**
96 W	1	Circline, Quad Tube, T10, T12/T12HO, T5/T5HO, T8/T8HO, Triple Tube, Twin Tube	750	Yes	**454U42**
	1, 2	Circline, Quad Tube, T10/T10VHO, T12/T12HO, T5/T5HO, T8/T8HO, Triple Tube, Twin Tube	1400	Yes	**454U44**
Lithonia Lighting					
40 W	1	T12, T8	500	No	**2XLE7**
Power Sentry					
40 W	1	T8	450 to 550	No	**5YA44**
86 W	1, 2	Quad Tube, T12, T12HO, T5, T8, T9, Triple Tube, Twin Tube	1450 to 3500	No	**33L664**
Reduced-Profile Emergency Ballasts					
Bodine					
55 W	1	Biax, T5, T5HO, T8, T8HO	390 to 700	No	**12X236**
	1	4-Pin Long Compact, T5, T5HO, T8, T8HO	600 to 1325	No	**12X242**
	1	4-Pin Long Compact, T5, T5HO, T8, T8HO	600 to 1325	No	**40MA57**
	1, 2	Type A TLED	—	Yes	**56RU27**
Power Sentry					
40 W	1, 2	T8	600 to 700	No	**5YA45**
86 W	1, 2	Quad Tube, T5, T5HO, T8, T8HO, Triple Tube, Twin Tube	1250	Yes	**460K01**
	1, 2	Quad Tube, T5, T5HO, T8, T8HO, Triple Tube, Twin Tube	1100 to 1400	No	**5YA46**
Cold Temperature Emergency Ballasts					
Bodine					
215 W	1, 2	4-Pin, Biax, T10, T12, T5, T5HO, T8, T9	Up to 1600	No	**12X231**

32WX18

Emergency Lighting Devices for Generator Systems

- 24 hr. Emergency Illumination Time
- Fixture Dependent Lumens
- 120/277VAC input

Also known as generator transfer devices, or GTDs, these devices will turn on light fixtures during a power outage even if the switches that control the fixtures are in the off position. They are used with lighting systems in hospitals, universities, and other large facilities that have backup generators or central inverter systems that kick in to supply power to the facilities in the event of a power outage.

Bulb Type	Input Power	Input Current	Output Current	Item No.
Generator Transfer Devices				
Bodine				
Fluorescent, Incandescent, LED	0.23W @ 120V/360mW @ 277V	20mA @ 120V/10mA @ 277V	20 A	**32WX18**
	1.6W	280mA	3 A	**12X237**
	4W	45mA	20 A	**12X243**
	2.3W	30mA	2 A	**56RU22**
	4W	24mA Normal/118mA Emergency	10 A	**56RU28**
	4W	24mA Normal/118mA Emergency	16 A	**56RU29**
Iota Engineering				
Fluorescent, LED	11W	20,000mA	20A	**60CE51**

Plastic
3BA33

Aluminum
32WU29

Steel
2XLF6

Running Man
783HP3

Wheelchair
656P35

LITHONIA LIGHTING · DUAL LITE · COMPASS · FULHAM · LumaPro · Big Beam Emergency Lighting · COOPER Lighting

General Purpose LED Lighted Exit Signs

- 120/277 VAC
- Universal chevron knockouts indicate direction

Signs mark exits and passages to guide people out of public areas such as schools, offices, and commercial buildings. Mount near exit route doors and doorways, and hardwire into an electrical system to keep them lit for visibility. Signs with battery backup automatically switch to the battery during a power outage. Signs without battery backup are commonly used in buildings with emergency systems that supply power during an outage. Check local safety codes for requirements regarding material, lettering, graphics or specific color, size, and arrangement.

Plastic and **Aluminum** signs are lightweight and won't rust.

Steel signs are heavy-duty for use in locations that may be subject to impact or abuse.

Running Man sign provides a universal, text-free message that directs people to exits.

Wheelchair sign has a pictogram with an international symbol of accessibility to provide direction to exits that are wheelchair accessible.

No. of Faces	Housing Color	Mounting Location	Battery Chemistry	Emergency Illumination Time	Self Diagnostics	CA Title 20 Compliant	Compliance Type	Series	Brand	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Plastic Lighted Exit Signs													
With Battery Backup													
1	Black	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LQM	Lithonia Lighting	1 W	**1THX8**	—	—
	White	Ceiling	Nickel Cadmium	90 min	Yes	Yes	None	LQM	Lithonia Lighting	1 W	**2XLW3**	1 W	**2XLW4**
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LQM	Lithonia Lighting	1 W	**3BA32**	1 W	**3BA33**
1 or 2	Black	Ceiling, End, Wall	Nickel Cadmium	90 min	No	Yes	None	CE	Compass	3.5 W	**784H83**	3.5 W	**784H83**
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	CE	Compass	3.6 W	**32WU26**	1.5 W	**32WU25**
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	CE	Compass	—	—	3.2 W	**32WU27**
	White	Ceiling	Nickel Cadmium	90 min	No	No	None	FHEX21	Fulham Firehorse	3.2 W	**35GK30**	3.8 W	**35GK28**
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	—	—	LumaPro	0.4 W	**6CGL5**	0.6 W	**6CGL6**
	White	Ceiling	Nickel-Metal Hydride	90 min	No	Yes	None	EXRG	Lithonia Lighting	1 W	**61MP25**	1 W	**61MP25**
	White	Ceiling, End, Wall	Nickel Cadmium	90 min	No	Yes	None	CE	Compass	3.5 W	**784H82**	3.5 W	**784H82**
	White	Ceiling, Wall	Nickel Cadmium	90 min	No	Yes	None	CE	Compass	1.7 W	**32WU24**	—	—
	White	Ceiling, Wall, End	Nickel-Metal Hydride	90 min	Yes	Yes	None	EVE	Dual-Lite	2 W	**32WU13**	2 W	**32WU19**
	White	Ceiling, Wall, End	Nickel-Metal Hydride	90 min	No	Yes	None	EVE	Dual-Lite	2 W	**32WU18**	2 W	**32WU16**
Without Battery Backup													
1	Black	Ceiling	Not Battery Powered	—	No	Yes	None	LQM	Lithonia Lighting	1 W	**1THX7**	—	—
	White	Ceiling	Not Battery Powered	—	No	Yes	None	LQM	Lithonia Lighting	1 W	**3BA31**	1 W	**1GC97**
1 or 2	Black	Ceiling, End, Wall	Not Battery Powered	90 min	No	No	None	CE	Compass	2.8 W	**784H77**	2.8 W	**784H77**
	Black	Ceiling, Wall, End	Not Battery Powered	—	No	Yes	None	EVE	Dual-Lite	1.4 W	**32WU14**	—	—
	White	Ceiling	Not Battery Powered	—	No	Yes	None	EXRG	Lithonia Lighting	1 W	**61MP26**	1 W	**61MP26**
	White	Ceiling, End, Wall	Not Battery Powered	90 min	No	No	None	CE	Compass	2.8 W	**784H76**	2.8 W	**784H76**
	White	Ceiling, Wall, End	Not Battery Powered	—	No	Yes	None	EVE	Dual-Lite	1.4 W	**32WU17**	1.3 W	**32WU15**
2	White	Ceiling, End, Wall	Not Battery Powered	—	No	No	—	XKL	Big Beam	—	—	1.7 W	**3WDG6**
	White	Ceiling, Wall	Not Battery Powered	—	No	Yes	None	CE	Compass	1.8 W	**458T10**	1.5 W	**458T11**
Aluminum Lighted Exit Signs													
With Battery Backup													
1	Black	Ceiling	Nickel Cadmium	90 min	Yes	No	—	CX	Cooper Lighting	2 W	**16U372**	—	—
	Black	Ceiling	Nickel Cadmium	90 min	No	No	None	LQC	Lithonia Lighting	3 W	**1VCU3**	3 W	**1VCU9**
	Black	Ceiling	Nickel Cadmium	90 min	No	No	New York City Appd.	LENY	Lithonia Lighting	2 W	**2XLF8**	—	—
	Black	Ceiling	Nickel Cadmium	90 min	Yes	Yes	None	LE	Lithonia Lighting	2 W	**4WT13**	2 W	**38GT81**
	Black	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LE	Lithonia Lighting	2 W	**5TP18**	—	—
	Black	Ceiling, Wall	Nickel Cadmium	90 min	—	Yes	None	CCE	Compass	1 W	**32WU28**	1 W	**32WU30**
	White	Ceiling	Nickel Cadmium	90 min	No	No	None	LQC	Lithonia Lighting	3 W	**1VCU5**	—	—
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LE	Lithonia Lighting	2 W	**5TP24**	—	—
	White	Ceiling	Nickel-Metal Hydride	90 min	Yes	No	—	CS Series	Compass	3.1 W, 3.2 W	**656P33**	—	—
1 or 2	Silver	Ceiling	Nickel Cadmium	90 min	No	Yes	—	—	LumaPro	—	—	0.6 W	**6CGL9**
2	Black	Ceiling	Nickel Cadmium	90 min	No	No	None	LQC	Lithonia Lighting	3 W	**1VCU4**	3 W	**1VCV1**
	Black	Ceiling	Nickel Cadmium	90 min	Yes	Yes	None	LE	Lithonia Lighting	2 W	**4WT17**	—	—
	Black	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LE	Lithonia Lighting	2 W	**5TP21**	—	—
	Black	Ceiling, Wall	Nickel Cadmium	90 min	—	Yes	None	CCE	Compass	1 W	**32WU29**	1 W	**32WU31**
	White	Ceiling	Nickel Cadmium	90 min	No	No	None	LQC	Lithonia Lighting	3 W	**1VCU6**	—	—
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LE	Lithonia Lighting	—	—	2 W	**5TP23**
Without Battery Backup													
1	Black	Ceiling	Not Battery Powered	—	No	No	—	CX	Cooper Lighting	1 W	**16U376**	—	—
	Black	Ceiling	Not Battery Powered	—	No	No	None	LQC	Lithonia Lighting	3 W	**1VCT8**	3 W	**1VCU7**
	Black	Ceiling	Not Battery Powered	—	No	Yes	None	LE	Lithonia Lighting	2 W	**4PH24**	—	—
	White	Ceiling	Not Battery Powered	—	No	No	None	LQC	Lithonia Lighting	3 W	**1VCU1**	—	—
	White	Ceiling	Not Battery Powered	—	No	Yes	None	LE	Lithonia Lighting	2 W	**4PH36**	—	—
1 or 2	Black	Ceiling	Not Battery Powered	—	No	No	New York City Appd.	LENY	Lithonia Lighting	2 W	**2XLF7**	—	—
2	Black	Ceiling	Not Battery Powered	—	No	No	None	LQC	Lithonia Lighting	3 W	**1VCT9**	3 W	**1VCU8**
	Black	Ceiling	Not Battery Powered	—	No	Yes	None	LE	Lithonia Lighting	2 W	**4PH23**	—	—
Steel Lighted Exit Signs													
With Battery Backup													
1	White	Ceiling	Nickel Cadmium	90 min	No	Yes	New York City Appd.	LXNY	Lithonia Lighting	2 W	**2XLF6**	—	—
	White	Ceiling	Nickel Cadmium	90 min	No	Yes	None	LX	Lithonia Lighting	4 W	**4XT48**	—	—
	White	Ceiling	Nickel Cadmium	90 min	No	No	Chicago Appd.	LXC	Lithonia Lighting	4 W	**6NZZ1**	—	—
2	White	Ceiling, End, Wall	Sealed Nickel Cadmium	3 hr	—	No	—	—	Big Beam	1.7 W	**783HN3**	—	—
	Black	Ceiling, End, Wall	Nickel Cadmium	3 hr	No	No	—	XFL	Big Beam	1.7 W	**3WCR7**	—	—
	White	Ceiling, End, Wall	Nickel Cadmium	3 hr	No	No	—	XFL	Big Beam	1.7 W	**3WCR2**	—	—
	White	Ceiling, End, Wall	Sealed Nickel Cadmium	3 hr	—	No	—	—	Big Beam	1.7 W	**783HN4**	—	—
Without Battery Backup													
1	White	Ceiling	Not Battery Powered	—	No	Yes	New York City Appd.	LXNY	Lithonia Lighting	2 W	**2XLF5**	—	—
	White	Ceiling	Not Battery Powered	—	No	Yes	None	LX	Lithonia Lighting	4 W	**4PH13**	4 W	**3GA43**
2	Black	Ceiling, End, Wall	Not Battery Powered	—	No	No	—	XFL	Big Beam	1.7 W	**3WCP1**	—	—
	White	Ceiling, End, Wall	Not Battery Powered	—	No	No	—	XFL	Big Beam	1.7 W	**3WCN5**	1.7 W	**3WCP6**
Running Man Lighted Exit Signs													
With Battery Backup													
2	White	Ceiling, End, Wall	Sealed Nickel Cadmium	90 min	—	No	—	—	Big Beam	—	—	1.7 W	**783HP3**
Wheelchair Lighted Exit Signs													
With Battery Backup													
1	White	Ceiling	Nickel-Metal Hydride	90 min	Yes	No	Connecticut Approved	CS Series	Compass	6.4 W, 6.7 W	**656P35**	—	—

Edge-Lit LED Exit Signs

- 120/277 VAC
- Universal chevron knockouts indicate direction

Signs spread light uniformly across the face to optimize visibility for marking exits and passages to guide people out of buildings. The slim housing has a trim, upscale look, making them a preferred choice for hotels, conference rooms, and offices with high-end furnishings and finishes.

Surface-mount signs offer versatile mounting to a ceiling or wall.

Recess-mount signs are mounted with the housing concealed in a ceiling cutout. Helps protect internal components from damage and provides a cleaner look.

Surface-Mount
46T227

Recess-Mount
2XLH2

No. of Faces	Housing Color	Housing Material	Mounting Location	Battery Chemistry	Emergency Illumination Time	Self Diagnostics	CA Title 20 Compliant	Compliance Type	Series	Brand	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Surface-Mount Edge-Lit Exit Signs														
With Battery Backup														
1	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	No	No	New York City Appd.	EDGNY	Lithonia Lighting	3 W	**2XLG5**	—	—
	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	No	Yes	None	EDG	Lithonia Lighting	2.8 W	**2YGK9**	2.8 W	**2YGL1**
	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	Yes	Yes	None	EDG	Lithonia Lighting	3 W	**454Y91**	3 W	**454Y92**
	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	No	Yes	—	—	LumaPro	0.4 W	**6CGL3**	—	—
	White	Steel	Ceiling	Nickel Cadmium	3 hr	No	No	—	RXL	Big Beam	—	—	14 W	**3WCV2**
	White	Aluminum	Ceiling	Nickel Cadmium	90 min	Yes	Yes	None	EDG	Lithonia Lighting	3 W	**454Y93**	3 W	**454Y94**
2	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	No	Yes	None	EDG	Lithonia Lighting	—	—	2.8 W	**2YGL5**
	Silver	Aluminum	Ceiling	Nickel Cadmium	90 min	No	No	New York City Appd.	EDGNY	Lithonia Lighting	3 W	**2XLG7**	—	—
	White	Aluminum	Wall	Nickel Cadmium	90 min	No	No	None	CEL	Compass	3.7 W	**46T227**	—	—
Without Battery Backup														
1	Silver	Aluminum	Ceiling	Not Battery Powered	—	No	No	New York City Appd.	EDGNY	Lithonia Lighting	3 W	**2XLG4**	—	—
	Silver	Aluminum	Ceiling	Not Battery Powered	—	No	Yes	None	EDG	Lithonia Lighting	2.8 W	**2YGK7**	2.8 W	**2YGK8**
2	Silver	Aluminum	Ceiling	Not Battery Powered	—	No	No	New York City Appd.	EDGNY	Lithonia Lighting	3 W	**2XLG6**	—	—
	Silver	Aluminum	Ceiling	Not Battery Powered	—	No	Yes	None	EDG	Lithonia Lighting	2.8 W	**2YGL2**	2.8 W	**2YGL3**
Recess-Mount Edge-Lit Exit Signs														
With Battery Backup														
1	Silver	Aluminum	Recessed	Nickel Cadmium	90 min	No	No	New York City Appd.	EDGRNY	Lithonia Lighting	3 W	**2XLG9**	—	—
	Silver	Aluminum	Recessed	Nickel Cadmium	90 min	No	Yes	—	—	LumaPro	3 W	**53RH94**	3 W	**53RH95**
	White	Steel	Recessed	Nickel Cadmium	3 hr	No	No	—	RXL	Big Beam	14 W	**3WCU4**	—	—
2	Silver	Aluminum	Recessed	Nickel Cadmium	90 min	No	Yes	None	EDGR	Lithonia Lighting	3 W	**454Y85**	3 W	**454Y86**
	Silver	Aluminum	Recessed	Nickel Cadmium	90 min	No	Yes	—	—	LumaPro	3 W	**53RH96**	3 W	**53RH97**
	Silver	Aluminum	Recessed	Nickel Cadmium	90 min	No	No	New York City Appd.	EDGRNY	Lithonia Lighting	3 W	**2XLH2**	—	—
	White	Aluminum	Recessed	Nickel Cadmium	90 min	No	No	None	CEL	Compass	3.7 W	**46T228**	—	—
Without Battery Backup														
1	Silver	Aluminum	Recessed	Not Battery Powered	—	No	No	New York City Appd.	EDGRNY	Lithonia Lighting	3 W	**2XLG8**	—	—
2	Silver	Aluminum	Recessed	Not Battery Powered	—	No	No	New York City Appd.	EDGRNY	Lithonia Lighting	3 W	**2XLH1**	—	—

Vandal-Resistant LED Lighted Exit Signs

- 120/277 VAC
- Universal chevron knockouts indicate direction

Sturdy housing and impact-resistant faceplates protect against damage and resist tampering. Commonly installed in gymnasiums, transit centers, public restrooms, and correctional facilities.

783HM5

No. of Faces	Housing Color	Housing Material	Mounting Location	Battery Chemistry	Emergency Illumination Time	Self Diagnostics	CA Title 20 Compliant	NEMA Rating	Series	Brand	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Vandal-Resistant Exit Signs														
With Battery Backup														
1	Black	Aluminum	Ceiling	Nickel Cadmium	90 min	No	No	NEMA 4X	LV	Lithonia Lighting	2 W	**5YB73**	—	—
	White	Aluminum	Wall	Nickel Cadmium	90 min	No	No	No	LV	Lithonia Lighting	2 W	**4PH56**	—	—
2	White	Steel	Ceiling, End, Wall	Sealed Nickel Cadmium	3 hr	No	No	No	—	Big Beam	1.7 W	**783HM5**	1.7 W	**783HM6**
Without Battery Backup														
1	White	Aluminum	Wall	Not Battery Powered	—	No	No	No	LV	Lithonia Lighting	2 W	**4PH57**	—	—
2	Black	Aluminum	Ceiling	Not Battery Powered	—	No	No	NEMA 4X	LV	Lithonia Lighting	2 W	**454Y88**	2 W	**454Y90**
	White	Aluminum	Ceiling	Not Battery Powered	—	No	No	NEMA 4X	LV	Lithonia Lighting	2 W	**454Y87**	2 W	**454Y89**

Self-Luminous Exit Signs

- Universal chevron knockouts indicate direction

Signs contain sealed tritium and phosphor that emit a constant glow without requiring electricity, batteries, or an external light source. Eliminates the need for hardwiring, battery replacement or other maintenance, and testing protocols. Can withstand extreme temperatures and washdowns to allow mounting in dock areas, food processing facilities, chemical plants and other hazardous locations, as well as areas without electricity. Regulated by the US Nuclear Regulatory Commission (NRC) and require disposal in accordance with NRC regulations at the end of their 10- or 20-year life cycle.

General Purpose
2VDD9

No. of Faces	Primary Frame Color	Housing Material	Mounting Location	CA Title 20 Compliant	10 yr RED Item No.	10 yr GREEN Item No.	20 yr RED Item No.	20 yr GREEN Item No.
General Purpose Self-Luminous Exit Signs								
1	Black	Plastic	Ceiling, End, Wall	No	**2VDD9**	**2TUE6**	**2VDE1**	**2TUE7**
	White	Aluminum	Ceiling, End, Wall	No	**2VDE4**	**2TUG1**	**2VDE5**	**2TUG2**
	White	Plastic	Ceiling, End, Wall	No	**8MJ78**	**8VTZ2**	**9NLF9**	**8TD92**
2	White	Aluminum	Ceiling, End, Wall	No	**2VDE6**	**2TUG3**	**2VDE7**	**2TUG4**
	Black	Plastic	Ceiling, End, Wall	No	**2VDE2**	**2TUE8**	**2VDE3**	**2TUE9**
	White	Plastic	Ceiling, End, Wall	No	**8VTZ3**	**9NLH1**	**9UZ80**	**9RP47**
Vandal-Resistant Self-Luminous Exit Signs								
1	White	Aluminum	Wall	No	**2VDE8**	**2TUG5**	**2VDE9**	**2TUG6**

Vandal-Resistant
2TUG5

46C213

Wet Location LED Lighted Exit Signs

- 120/277 VAC
- Universal chevron knockouts indicate direction

For use in areas where signs may be exposed to water drips, splash or spray. Select signs are NEMA or IP rated for water protection.

No. of Faces	Housing Color	Housing Material	Mounting Location	Battery Chemistry	Emergency Illumination Time	Self Diagnostics	CA Title 20 Compliant	IP Rating	NEMA Rating	Series	Brand	RED Wattage	RED Item No.	GREEN Wattage	GREEN Item No.
Wet Location Rated Exit Signs															
With Battery Backup															
1	Gray	Fiberglass	Wall	Sealed Lead Calcium	3 hr	No	No	No	No	—	Big Beam	5 W	**783HN8**	5 W	**783HP0**
	Silver	Plastic	Ceiling	Nickel Cadmium	90 min	No	Yes	No	No	CEW	Compass	2.7 W	**32WU32**	—	—
	White	Plastic	Ceiling	Nickel Cadmium	90 min	No	Yes	No	No	WLTE	Lithonia Lighting	2.7 W	**46C212**	3.4 W	**46C215**
	White	Aluminum	Ceiling	Nickel Cadmium	90 min	Yes	Yes	66	NEMA 4X	SEWL	Dual-Lite	3.1 W	**46T235**	—	—
	White	Plastic	Ceiling	Nickel Cadmium	90 min	No	Yes	Not Rated	Not Rated	—	LumaPro	2 W	**35GW98**	—	—
	White	Aluminum, Plastic	Wall	Nickel Cadmium	2 hr	Yes	No	Not Rated	No	60	Chloride	4.7 W	**784H27**	—	—
2	Black	Aluminum, Plastic	Wall	Nickel Cadmium	2 hr	Yes	No	Not Rated	No	60	Chloride	4.7 W	**784H30**	4.7 W	**784H31**
	White	Plastic	Ceiling, Wall	Nickel Cadmium	90 min	No	No	No	No	FHEX26	Fulham Firehorse	1.8 W	**407K34**	—	—
	White	Aluminum	Ceiling	Nickel Cadmium	90 min	Yes	Yes	66	NEMA 4X	SEWL	Dual-Lite	3.1 W	**46T237**	—	—
	White	Plastic	Ceiling	Nickel Cadmium	90 min	No	Yes	No	No	WLTE	Lithonia Lighting	2.7 W	**46C213**	3.4 W	**46C214**
	White	Aluminum, Plastic	Wall	Nickel Cadmium	2 hr	Yes	No	Not Rated	No	60	Chloride	4.7 W	**784H23**	4.7 W	**784H25**
Without Battery Backup															
1	White	Aluminum	Ceiling	Not Battery Powered	—	No	Yes	66	NEMA 4X	SEWL	Dual-Lite	2.1 W	**46T229**	1.8 W	**46T230**
	White	Plastic	Ceiling	Not Battery Powered	—	No	Yes	No	No	WLTE	Lithonia Lighting	2.7 W	**46C216**	3.4 W	**46C219**
2	Black	Aluminum, Plastic	Wall	Not Battery Powered	—	No	No	Not Rated	No	60	Chloride	4 W	**784H28**	4.7 W	**784H29**
	White	Aluminum, Plastic	Wall	Not Battery Powered	—	No	No	Not Rated	No	60	Chloride	4 W	**784H24**	—	—
	White	Aluminum, Plastic	Ceiling, Wall	Not Battery Powered	—	No	No	Not Rated	No	60	Chloride	—	—	4 W	**784H26**
	White	Plastic	Ceiling	Not Battery Powered	—	No	Yes	No	No	WLTE	Lithonia Lighting	2.7 W	**46C217**	3.4 W	**46C218**

Screw-In
1LEK9

Hardwired
6ZCK1

LED Exit Sign Retrofit Kits

Kits convert lighted exit signs from incandescent or halogen to LED. Include components that fit into the housing of an existing exit sign for quick, easy installation.

Candelabra kits include screw-base lamps and adapters to fit matching sockets in an existing sign.

Direct Wire kits include an LED light bar that replaces lamps and sockets and connects to existing wiring in a hardwired exit sign.

LED Color	Lamp Wattage	Overall Length	Overall Width	Overall Depth	Overall Depth	Housing Material	Std.	Brand	Item No.
Candelabra Exit Sign LED Retrofit Kit									
Green	1.2 W	4 ¾ in	1 ⅝ in	⅝ in	⅝ in	—	ETL Listed, UL 924	LumaPro	**1LEK9**
Red	2.8 W	4 ¾ in	1 ¼ in	1 ¼ in	1 ¼ in	—	CETL Listed, ETL, UL 924	TCP	**158A23**
Direct Wire Exit Sign LED Retrofit Kit									
Red	2.8 W	4 ¾ in	1 ⅝ in	⅝ in	⅝ in	—	CETL Listed, ETL, UL 924	TCP	**158A24**
White	4.5 W	9 1⁄16 in	1 3⁄16 in	⅜ in	⅜ in	Aluminum	UL 924	Radionic Hi-Tech	**60XZ84**
	3.5 W	9 ½ in	1 1⁄16 in	¾ in	¾ in	Plastic	UL 924; City of Chicago Approved; New York City Approved	Etcon Corp	**292K34**
	4.5 W	9 3⁄16 in	1 ⅝ in	1 1⁄16 in	1 1⁄16 in	Aluminum	UL 924; City of Chicago Approved; New York City Approved	Radionic Hi-Tech	**6ZCK0**
	4.5 W	9 3⁄16 in	5⁄16 in	1 1⁄16 in		Aluminum	UL 924; City of Chicago Approved; New York City Approved	Radionic Hi-Tech	**6ZCK1**
	4.5 W	9 3⁄16 in	13 ½ in	1 1⁄16 in		Aluminum	UL Listed	Radionic Hi-Tech	**460K94**

Square Bottom-Mount
784H14

Round Back-Mount
783HR6

Wet Location Combination Exit Signs with Emergency Lights

- 120/277 VAC
- Universal chevron knockouts indicate direction
- Provide at least 90 min. emergency lighting
- CA title 20 compliant

Exit light combos hardwire into an electrical system and automatically switch to battery backup during a power loss to keep the exit sign lit and turn on the emergency lights. For use in areas where signs may be exposed to water drips, splash or spray. Select signs are rated for water protection.

Plastic and **Aluminum** signs are lightweight and corrosion resistant.

Fiberglass signs can withstand heavy-duty use in locations that may be subject to impact or abuse.

No. of Faces	Housing Color	Mounting Location	Battery Chemistry	Recommended Mounting Height	Recommended Single Fixture Spacing	Self Diagnostics	Remote Capable	NEMA Rating	Compliance Type	Series	Brand	GREEN Fixture Wattage	GREEN Item No.	RED Fixture Wattage	RED Item No.
Plastic Exit Sign															
Round Back-Mount Light Heads															
1	Gray	Wall	Sealed Lead Calcium	7 ½ ft	45 ft	No	Yes	NEMA 4X	No	—	Big Beam	5 W	**783HP1**	—	—
Square Bottom-Mount Light Heads															
1	White	Ceiling, End, Wall	Nickel Cadmium	20 ft	24 ft	No	No	Not Rated	Chicago Approved	WLTC	Lithonia Lighting	—	—	5.7 W	**784H14**
Fiberglass Exit Sign															
Round Back-Mount Light Heads															
1	Gray	Wall	Sealed Lead Calcium	7 ½ ft	45 ft	No	Yes	NEMA 4X	No	—	Big Beam	5 W	**783HR6**	5 W	**783HN9**
	Gray	Wall	Sealed Lead Calcium	7 ½ ft	45 ft	No	Yes	NEMA 4X	No	—	Big Beam	—	—	5 W	**783HR5**
Aluminum Exit Sign															
Round Bottom-Mount Light Heads															
1	White	Ceiling	Lithium Iron Phosphate	12 ft	16 ft	Yes	No	NEMA 4X	Chicago Approved	DYNC	Dual-Lite	—	—	6 W	**656P31**
	White	Ceiling	Lithium Iron Phosphate	12 ft	16 ft	Yes	Yes	NEMA 4X	Chicago Approved	DYNC	Dual-Lite	—	—	12 W	**656P32**

Combination LED Exit Signs with Emergency Lights

- 120/277 VAC
- Universal chevron knockouts indicate direction

Combo signs mark exits and illuminate pathways to guide evacuations from buildings. Units hardwire into an electrical system and automatically switch to battery backup during a power loss to keep the exit sign lit and turn on the emergency lights. Units meet requirements for exit signs along an egress path, at doorways leading to exits, and at exits. Must be installed and regularly tested in accordance with local safety codes.

Linear Bottom-Mount 16U220

Round Side-Mount 26UX11

Round Top-Mount 407K32

No. of Faces	Housing Color	Mounting Location	*Battery Chemistry	Emergency Illumination Time	Recommended Mounting Height	Recommended Single Fixture Spacing	Self Diagnostics	Remote Capable	CA Title 20 Compliant	Compliance Type	Series	Brand	RED Fixture Wattage	RED Item No.	GREEN Fixture Wattage	GREEN Item No.
Plastic Exit Sign																
Linear Bottom-Mount Light Heads																
1 or 2	White	Ceiling, End, Wall	Ni-Cd	90 min	Not Applicable	Not Applicable	No	Yes	Yes	None	ECB	Lithonia Lighting	3 W	**16U220**	3 W	**16U221**
Round Bottom-Mount Light Heads																
1	White	Ceiling, End, Wall	Ni-Cd	90 min	10 ft	8 ft	No	No	Yes	None	—	LumaPro	2.7 W	**35GW99**	2.7 W	**35GX01**
1 or 2	Black	Ceiling, End, Wall	LiFePO4	90 min	7 ½ ft	10 ft	No	No	Yes	None	EVC	Dual-Lite	1.7 W	**32WU10**	—	—
	White	Ceiling, End, Wall	LiFePO4	90 min	7 ½ ft	10 ft	No	Yes	Yes	None	EVC	Dual-Lite	1.7 W	**26UX10**	1.7 W	**26UX11**
	White	Ceiling, End, Wall	LiFePO4	90 min	7 ½ ft	10 ft	Yes	No	Yes	None	EVC	Dual-Lite	1.7 W	**32WU09**	1.7 W	**32WU12**
	White	Ceiling, End, Wall	LiFePO4	90 min	7 ½ ft	10 ft	No	No	Yes	None	EVC	Dual-Lite	1.7 W	**32WU11**	—	—
	White	Ceiling, End, Wall	Ni-Cd	90 min	10 ft	8 ft	No	No	Yes	None	—	LumaPro	2.7 W	**40CP85**	—	—
2	White	Ceiling, End, Wall	LiFePO4	90 min	7 ½ ft	10 ft	No	No	Yes	None	EVC	Dual-Lite	1.7 W	**46T225**	1.7 W	**46T226**
Round Side-Mount Light Heads																
1	White	Ceiling, End, Wall	Ni-Cd	90 min	7 ½ ft	18 ft	No	Yes	Yes	None	LHQM	Lithonia Lighting	—	—	3 W	**787WF0**
	White	Ceiling, Wall	Ni-Cd	90 min	9 ft	12 ft	No	No	Yes	—	CC	Compass	4.2 W	**784H78**	4.2 W	**784H78**
	White	Ceiling, Wall	NiMH	2 hr	9 ft	12 ft	No	Yes	Yes	—	CC	Compass	4.8 W	**784H80**	4.8 W	**784H80**
1 or 2	Black	Ceiling	Ni-Cd	2 hr	9 ft	12 ft	No	No	Yes	None	CC	Compass	—	**784H79**	—	**784H79**
	Black	Ceiling	NiMH	2 hr	9 ft	12 ft	No	Yes	Yes	None	CC	Compass	—	**784H81**	—	**784H81**
	White	Ceiling, End, Wall	Ni-Cd	90 min	7 ½ ft	12 ft	No	No	Yes	None	CC	Compass	4.1 W	**32WU20**	3.2 W	**32WU21**
	White	Ceiling, End, Wall	Ni-Cd	90 min	7 ½ ft	12 ft	No	Yes	Yes	None	CC	Compass	3.6 W	**32WU22**	3.2 W	**32WU23**
	White	Ceiling, End, Wall	NiMH	90 min	7 ½ ft	10 ft	Yes	Yes	Yes	Chicago Appd.	ECR	Lithonia Lighting	2.8 W	**61MP21**	2.8 W	**61MP21**
	White	Ceiling, End, Wall	NiMH	90 min	7 ½ ft	10 ft	Yes	No	Yes	Chicago Appd.	ECR	Lithonia Lighting	2 W	**61MP23**	2 W	**61MP23**
	White	Ceiling, Wall	SLA	90 min	10 ft	8 ft	No	No	Yes	None	—	LumaPro	13.1 W	**40CP82**	—	—
	White	Ceiling, Wall	Ni-Cd	90 min	7 ½ ft	12 ft	Yes	No	Yes	None	CC	Compass	4 W	**488U42**	—	—
2	White	Ceiling, End, Wall	Ni-Cd	90 min	7 ½ ft	18 ft	No	No	Yes	None	QUANTUM	Lithonia Lighting	3 W	**4ZDA6**	3 W	**4ZDA8**
	White	Ceiling, End, Wall	Ni-Cd	90 min	7 ½ ft	18 ft	No	Yes	Yes	None	QUANTUM	Lithonia Lighting	3 W	**4ZDA7**	—	—
Round Top-Mount Light Heads																
1 or 2	White	Ceiling, End, Wall	SLC	90 min	7 ½ ft	12 ft	No	No	Yes	—	2DZF PAR	Big Beam	12 W	**3WAE2**	12 W	**3WAC6**
	White	Ceiling, End, Wall	Ni-Cd	90 min	10 ft	8 ft	No	No	Yes	None	—	LumaPro	3 W	**40CP86**	3 W	**40CP87**
2	White	Wall	Ni-Cd	90 min	8 ft	20 ft	No	No	No	None	FHEC34	Fulham Firehorse	4.1 W	**407K32**	4 W	**407K33**
Square Side-Mount Light Heads																
1 or 2	White	Ceiling, End, Wall	SLA	90 min	8 ft	20 ft	No	No	No	None	FHEC31	Fulham Firehorse	3.2 W	**35GK20**	—	—
	White	Ceiling, End, Wall	NiMH	90 min	7 ½ ft	6 ft	No	Yes	Yes	Chicago Appd.	ECR	Lithonia Lighting	4 W	**61MP22**	4 W	**61MP22**
	White	Ceiling, End, Wall	NiMH	90 min	7 ½ ft	6 ft	Yes	No	Yes	Chicago Appd.	ECR	Lithonia Lighting	3.5 W	**61MP24**	3.5 W	**61MP24**
	White	Ceiling, Wall	SLA	90 min	10 ft	8 ft	No	No	Yes	None	—	LumaPro	13.1 W	**40CP84**	—	—
	White	Ceiling, Wall	Ni-Cd	90 min	7 ½ ft	12 ft	No	No	Yes	None	CC	Compass	3.9 W	**488U41**	—	—
2	White	Ceiling, End, Wall	SLC	3 hr	7 ½ ft	11 ft	No	No	Yes	—	2EXKL	Big Beam	12 W	**3WAX8**	12 W	**3WAX3**
	White	Ceiling, End, Wall	Ni-Cd	90 min	10 ft	20 ft	No	No	Yes	None	—	LumaPro	3 W	**489K12**	—	—
	White	Ceiling, End, Wall	Ni-Cd	90 min	10 ft	20 ft	No	Yes	Yes	None	—	LumaPro	3 W	**489K13**	3 W	**489K14**
Square Top-Mount Light Heads																
2	White	Ceiling, Wall	Ni-Cd	90 min	8 ft	20 ft	No	No	No	None	FHEC35	Fulham Firehorse	2.8 W	**482P59**	3.4 W	**482P60**
	White	Ceiling, Wall	Ni-Cd	90 min	8 ft	20 ft	No	Yes	No	None	FHEC35	Fulham Firehorse	3.7 W	**482P61**	2.6 W	**482P64**
	White	Ceiling, Wall	Ni-Cd	90 min	8 ft	20 ft	Yes	No	No	None	FHEC35	Fulham Firehorse	—	—	3 W	**482P65**
Steel Exit Sign																
Round Back, Top-Mount Light Heads																
1	White	—	SLC	90 min	7 ½ ft	45 ft	No	Yes	Yes	Chicago Appd.	—	Big Beam	3.7 W	**783HN5**	—	—
2	White	—	SLC	90 min	7 ½ ft	45 ft	No	Yes	Yes	Chicago Appd.	—	Big Beam	3.7 W	**783HN6**	—	—
	White	—	SLC	3 min	7 ½ ft	20 ft	No	Yes	Yes	—	—	Big Beam	7 W	**783HP5**	7 W	**783HP6**
Round Top-Mount Light Heads																
1	White	Ceiling, End, Wall	SLC	90 min	7 ½ ft	10 ft	No	No	Yes	—	COM	Big Beam	8 W	**3WCX8**	8 W	**3WCY4**
	White	Ceiling, Wall	SLC	90 min	Not Applicable	Not Applicable	No	Yes	No	New York City Appd.	LHX-NY	Lithonia Lighting	12.7 W	**2XLF9**	—	—

** Nickel Cadmium (Ni-Cd), Lithium Iron Phosphate (LiFePO4), Nickel-Metal Hydride (NiMH), Sealed Lead Acid (SLA), Sealed Lead Calcium (SLC)*

Plastic
46T222

Steel
783HM9

Recessed-Mount
458T16

Grid-Mount
783HM3

General Purpose Emergency Lights

Lights automatically switch on when power goes out and illuminate pathways toward exits in public areas such as schools, offices, and commercial buildings. Run on batteries or have a battery backup to operate independently of hardwired fixtures. Must be installed and regularly tested in accordance with local safety codes.

Plastic lights are lightweight and won't rust.

Steel lights are heavy-duty for use in areas that may be subject to impact or abuse.

Recess-mount lights install into a cutout to conceal the fixture and protect it from damage.

Grid-mount strip-style lights fit into an existing section of T-bar to blend into a drop ceiling for a seamless look.

No. of Lamp Heads	Lamp Wattage	Emergency Wattage	Input Voltage	Housing Color	Battery Chemistry	Remote Capable	Adjustable Lamp Heads	Self Diagnostics	CA Title 20 Compliant	Compliance Type	Series	Brand	Item No.
Plastic Emergency Lights													
LED													
2	0.54 W	1.08 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	FHEM10	Fulham Firehorse	**35GK11**
	0.75 W	2 W	120/277V AC	White	Nickel Cadmium	No	No	No	Yes	None	EU2L	Lithonia Lighting	**487V38**
	0.75 W	2 W	120/277V AC	White	Nickel Cadmium	Yes	No	No	Yes	None	EU2L	Lithonia Lighting	**487V39**
	0.79 W	1.8 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	No	None	CU2SQ	Compass	**488U55**
	1 W	2 W	120/277V AC	White	Nickel-Metal Hydride	No	Yes	Yes	Yes	None	EV	Dual-Lite	**32WU37**
	1 W	2 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	CU2	Compass	**46T222**
	1 W	4 W	120/277V AC	White	Nickel Cadmium	Yes	Yes	No	Yes	None	CU2	Compass	**46T223**
	1 W	2 W	120/277V AC	White	Nickel-Metal Hydride	No	Yes	No	Yes	None	EV	Dual-Lite	**46T224**
	1 W	1 W	120V AC, 277V AC	White	Nickel-Metal Hydride	No	Yes	No	Yes	None	EZ-2	Dual-Lite	**783DY9**
	1 W	1 W	120V AC, 277V AC	White	Nickel-Metal Hydride	No	Yes	Yes	Yes	None	EZ-2	Dual-Lite	**783DZ0**
	1 W	2 W	120V AC, 347V AC	White	Nickel Cadmium	Yes	Yes	No	Yes	Chicago Appd.	EU2C	Lithonia Lighting	**784H16**
	1.2 W	4.8 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	ELM2L	Lithonia Lighting	**483U30**
	1.2 W	4.8 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	ELM2L	Lithonia Lighting	**483U31**
	1.2 W	4.8 W	120 to 347V AC	Black	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	ELM2L	Lithonia Lighting	**483U32**
	1.2 W	4.8 W	120/277V AC	Black	Nickel Cadmium	No	Yes	No	Yes	None	ELM2L	Lithonia Lighting	**483U33**
	1.2 W	4.8 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	Yes	No	Yes	None	ELM2L	Lithonia Lighting	**483U34**
	1.2 W	4.8 W	120/277V AC	White	Nickel Cadmium	No	No	No	Yes	None	ELM2LF	Lithonia Lighting	**483U39**
	1.2 W	4.8 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	No	Yes	Yes	None	ELM2LF	Lithonia Lighting	**483U40**
	1.8 W	2 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	EU2C	Lithonia Lighting	**13M588**
	2 W	8 W	120/277V AC	White	Nickel-Metal Hydride	Yes	Yes	No	Yes	None	EV4D	Dual-Lite	**26UX06**
	2.5 W	5 W	120/277V AC	White	Sealed Lead Acid	Yes	Yes	No	No	No	LumaPro	LumaPro	**19L031**
	3 W	12 W	120 to 277V AC	White	Lithium Iron Phosphate	Yes	Yes	No	No	None	EVHC	Dual-Lite	**32WU44**
	4 W	4 W	120/277V AC	White	Nickel-Metal Hydride	No	Yes	No	Yes	None	EV4D	Dual-Lite	**32WU38**
	4 W	8 W	120/277V AC	Black	Nickel-Metal Hydride	Yes	Yes	No	Yes	None	EV4D	Dual-Lite	**32WU40**
	4 W	8 W	120/277V AC	White	Nickel-Metal Hydride	Yes	Yes	Yes	Yes	None	EV4D	Dual-Lite	**32WU41**
	5.3 W	11 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	ELM6L	Lithonia Lighting	**483U36**
	5.3 W	22 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	ELM6L	Lithonia Lighting	**483U37**
	5.3 W	32 W	120 to 347V AC	White	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	ELM6L	Lithonia Lighting	**483U38**
	6.6 W	11 W	120 to 277V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	ELM4L	Lithonia Lighting	**483U35**
Incandescent													
2	7.3 W	14.6 W	120/277V AC	White	Sealed Lead Acid	No	Yes	No	No	None	FHEM11	Fulham Firehorse	**35GK13**
Steel Emergency Lights													
LED													
2	5 W	32 W	120/277V AC	White	Lead Calcium	Yes	Yes	No	No	Chicago & New York City Appd.	ET	Big Beam	**783HM7**
	5 W	32 W	120/277V AC	White	Lead Calcium	Yes	Yes	Yes	No	Chicago & New York City Appd.	ET	Big Beam	**783HM8**
	5 W	36 W	120/277V AC	Beige	Sealed Nickel Cadmium	No	Yes	No	No	Chicago & New York City Appd.	SC	Big Beam	**783HM9**
	5 W	100 W	120/277V AC	Beige	Lead Calcium	No	Yes	No	No	Chicago & New York City Appd.	SC	Big Beam	**783HN0**
	5 W	36 W	120/277V AC	Beige	Sealed Nickel Cadmium	No	Yes	Yes	No	Chicago & New York City Appd.	SC	Big Beam	**783HN1**
	5 W	100 W	120/277V AC	Beige	Lead Calcium	No	Yes	Yes	No	Chicago & New York City Appd.	SC	Big Beam	**783HN2**
Incandescent													
2	7 W	14 W	120/277V AC	White	Lead Calcium	Yes	Yes	No	No	New York City Appd.	ELTNY	Lithonia Lighting	**1BP70**
	9 W	18 W	120/277V AC	White	Lead Calcium	Yes	Yes	No	No	New York City Appd.	ELTNY	Lithonia Lighting	**2XLG1**
3	9 W	27 W	120/277V AC	White	Lead Calcium	Yes	Yes	No	No	New York City Appd.	ELTNY	Lithonia Lighting	**2XLG2**
	12 W	36 W	120/277V AC	White	Lead Calcium	Yes	Yes	No	No	New York City Appd.	ELTNY	Lithonia Lighting	**2XLG3**
Halogen													
2	8 W	16 W	120/277V AC	Beige	Lead Calcium	Yes	Yes	No	No	Chicago Appd.	ELT24C	Lithonia Lighting	**3EU39**
	12 W	32 W	120/277V AC	Beige	Lead Calcium	Yes	Yes	No	No	Chicago & New York City Appd.	ELTCNY	Lithonia Lighting	**1BP67**
	12 W	24 W	120/277V AC	Beige	Lead Calcium	Yes	Yes	No	No	Chicago & New York City Appd.	ELTCNY	Lithonia Lighting	**1BP68**
	12 W	24 W	120/277V AC	Beige	Lead Calcium	Yes	Yes	No	No	Chicago & New York City Appd.	ELTCNY	Lithonia Lighting	**1BP69**
	24 W	24 W	120/277V AC	Beige	Sealed Lead Acid	No	Yes	No	No	Chicago Appd.	ELT24	Lithonia Lighting	**490P87**
	36 W	36 W	120/277V AC	Beige	Sealed Lead Acid	No	Yes	No	No	Chicago Appd.	ELT36	Lithonia Lighting	**490P90**
	50 W	50 W	120/277V AC	Beige	Sealed Lead Acid	No	Yes	No	No	Chicago Appd.	ELT50	Lithonia Lighting	**490P91**
Recessed-Mount Emergency Lights													
LED													
0	1 W	4 W	120/277V AC	White	Nickel-Metal Hydride	No	Yes	No	Yes	None	EV4R	Dual-Lite	**458T16**
	1 W	4 W	120/277V AC	White	Nickel-Metal Hydride	No	Yes	Yes	Yes	None	EV4R	Dual-Lite	**458T17**
Grid-Mount Emergency Lights													
LED													
1	5.7 W	10.7 W	120 to 277V AC	—	Nickel Cadmium	No	No	No	Yes	No	FireHorse	Fulham Firehorse	**783HM2**
	7.9 W	17 W	120 to 277V AC	—	Nickel Cadmium	No	No	No	Yes	No	FireHorse	Fulham Firehorse	**783HM3**

COMPASS · LITHONIA LIGHTING · DUAL LITE · Big Beam Emergency Lighting · PHILIPS CHLORIDE

Wet Location Emergency Lights

Lights automatically switch on when power goes out and illuminate pathways toward exits.

Plastic lights are economical, lightweight, and won't rust.

Aluminum lights provide an upscale look for high-end commercial settings. Low-profile, corrosion-resistant aluminum housing fits closely against surfaces and protects against moisture and rain for outdoor use.

Plastic 46C221

Aluminum 45VT42

No. of Lamp Heads	Lamp Wattage	Emergency Wattage	Input Voltage	Housing Color	Battery Chemistry	Remote Capable	Adjustable Lamp Heads	Self Diagnostics	CA Title 20 Compliant	Compliance Type	Series	Brand	Item No.
Plastic Wet Location Emergency Lights													
LED													
2	1.15 W	2.3 W	120/277V AC	White	Nickel Cadmium	No	Yes	No	No	None	—	Compass	**458T15**
	1.9 W	7.5 W	120V AC	Gray	Nickel Cadmium	No	Yes	No	No	None	WLTU	Lithonia Lighting	**46C221**
	2.7 W	5.4 W	120V AC	Gray	Nickel Cadmium	Yes	Yes	No	No	None	CU2W	Compass	**32WU53**
	2.72 W	3.6 W	120V AC	White	Nickel Cadmium	No	Yes	No	Yes	None	CU2SO	Compass	**488U54**
	3 W	6 W	120V AC	Gray	Lithium Iron Phosphate	No	Yes	Yes	Yes	None	DYN	Dual-Lite	**45VT51**
	3 W	12 W	120V AC	Gray	Lithium Iron Phosphate	Yes	Yes	No	Yes	None	DYN	Dual-Lite	**54EY12**
	5 W	18 W	120/277V AC	Light Gray	Lead Calcium	No	Yes	No	No	Chicago & New York City Appd.	SE	Big Beam	**783HP2**
	5 W	18 W	120/277V AC	Light Gray	Lead Calcium	No	Yes	No	No	Chicago & New York City Appd.	SE	Big Beam	**783HR4**
	6 W	12 W	120V AC	Gray	Lithium Iron Phosphate	No	Yes	No	Yes	None	DYN	Dual-Lite	**45VT46**
	6.6 W	11 W	120 to 347V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	Chicago Appd.	EXTL	Lithonia Lighting	**54ZU68**
	6.6 W	20.5 W	120 to 347V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	Chicago Appd.	EXTL	Lithonia Lighting	**54ZU69**
	6.6 W	11 W	120 to 347V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	Chicago Appd.	INDL	Lithonia Lighting	**54ZU70**
	6.6 W	20.5 W	120 to 347V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	Chicago Appd.	INDL	Lithonia Lighting	**54ZU71**
	6.6 W	32 W	120 to 347V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	Chicago Appd.	INDL	Lithonia Lighting	**54ZU72**
	12 W	24 W	120V AC	Gray	Lithium Iron Phosphate	No	Yes	Yes	Yes	None	DYN	Dual-Lite	**45VT48**
	12 W	24 W	120V AC	Gray	Lithium Iron Phosphate	Yes	Yes	Yes	Yes	None	Dynamo	Dual-Lite	**784H84**
Halogen													
2	7 W	14 W	120V AC, 277V AC	Gray	Lead Calcium	No	Yes	No	No	None	WLTU	Lithonia Lighting	**46C220**
Aluminum Wet Location Emergency Lights													
LED													
1	24 W	24 W	120V AC, 277V AC	Bronze	Nickel Cadmium	Not Available	No	Yes	No	None	PATRON	Chloride	**784H32**
2	3 W	6 W	100 to 300V AC	Brown	Nickel Cadmium	Yes	No	Yes	Yes	None	CUW	Compass	**45VT42**
4	2.88 W	11.52 W	120V AC	Brown	Nickel Cadmium	No	No	Yes	No	None	PG	Dual-Lite	**3GPD1**
	3 W	12 W	120V AC	White	Nickel Cadmium	No	No	Yes	No	None	PG	Dual-Lite	**3GPC9**
	15.7 W	62.8 W	120V AC	White	Nickel Cadmium	No	No	Yes	No	None	PG	Dual-Lite	**3GPD4**
	15.7 W	62.8 W	120V AC	Brown	Nickel Cadmium	No	No	Yes	No	None	PG	Dual-Lite	**3GPD5**
	15.7 W	62.8 W	120V AC	Silver	Nickel Cadmium	No	No	Yes	No	None	PG	Dual-Lite	**3GPD6**

No. of Lamps	Lamp Wattage	Voltage	Mounting Location	Housing Color	Compatible Mfr. Model Number	Brand	Item No.
Plastic Remote Heads							
LED							
1	1 W	3 V	Wall	White	CCRRC, CEGRC, CERRC, CU2RC	Compass	**32WU52**
2	1 W	3 V	Wall	White		Compass	**32WU51**
1	1 W	3.6 V	Ceiling, Wall	White	ECBRM, ECC REM, ECR/ECG HO, ECRM HO, ELM2L LTP, EU2C HO, EU2L REM, EXRM	Lithonia Lighting	**487V44**
	1 W	3.6 V	Ceiling, Wall	White		Lithonia Lighting	**784H17**
2	2 W	3.6 V	Ceiling, Wall	White		Lithonia Lighting	**487V45**
	2 W	3.6 V	Ceiling, Wall	White		Lithonia Lighting	**784H18**
1	1 W	5 to 30 V	Ceiling, Wall	White	ELM2L, ELM4L, ELM6L, ELT, EXTL, INDL, LHQM, LHQM LED, TCLC	Lithonia Lighting	**61HZ67**
2	2 W	5 to 30 V	Ceiling, Wall	White		Lithonia Lighting	**61HZ69**
	2 W	4.8 V	Ceiling, Wall	White	EV4D, EVC-D4	Dual-Lite	**26UX07**
	6 W	18 V	Ceiling, Wall	White	EVHC12, EVHC12I	Dual-Lite	**784H86**
Halogen							
1	12 W	12 V	Ceiling, End, Wall	White	ELT 12V	Lithonia Lighting	**3EU32**
Plastic Wet Location Remote Heads							
LED							
1	1 W	3 V	Wall	White	CCRRC, CEGRC, CERRC, CU2RC	Compass	**32WU50**
2	1 W	3 V	Wall	White		Compass	**32WU49**
	6 W	12.8 V	Ceiling, End, Wall	Gray	DYN12-4X, DYN12I-4X	Dual-Lite	**784H85**
1	1 W	3.6 V	Ceiling, Wall	Gray	ECBRM, ECC REM, ECR/ECG HO, ECRM HO, ELM2L LTP, EU2C HO, EU2L REM, EXRM	Lithonia Lighting	**487V46**
2	1 W	3.6 V	Ceiling, Wall	Gray		Lithonia Lighting	**784H15**
	2 W	3.6 V	Ceiling, Wall	Gray		Lithonia Lighting	**784H19**
1	5 W	6 V	Ceiling, End, Wall	Gray	L2ETXFL2GWW-U, L2ETXFL2RWW-U, LS2E4XL1GW, LS2E4XL1GW-FSH, LS2E4XL1RW, LS2E4XL1RW-FSH, LS2ECXL1RWW, LS2ECXL2RWW, LS2ET6S10-w-RC, LS2ET6S10-W-RC-SD, LS2SC12N7, LS2SC12N7-SD, LS2SC6S36, LS2SC6S36-SD	Big Beam	**783HR2**
2	5 W	6 V	Ceiling, End, Wall	Gray		Big Beam	**783HR3**
Halogen							
1	6 W	6 V	Ceiling, End, Wall	Gray	ELT 6V	Lithonia Lighting	**2XLE8**
	8 W	6 V	Ceiling, End, Wall	Gray		Lithonia Lighting	**2XLE9**
Aluminum Wet Location Remote Heads							
LED							
1	1 W	8 to 30 V	Ceiling, Wall	Silver	ELM2L, ELM2LF, ELM4L, ELM6L, ELT125, ELT180, ELT275, ELT50, EXTL, INDL, LHQM LED, TCLC	Lithonia Lighting	**61HZ68**
2	2 W	8 to 30 V	Ceiling, Wall	Silver		Lithonia Lighting	**61HZ70**
1	2 W	4.8 V	Wall	White	EV4D, EV4D-02L, EV4DB, EV4DI, EV4DI-02L	Dual-Lite	**26UX08**
2	2 W	4.8 V	Wall	White		Dual-Lite	**26UX09**
1	3 W	12 V	Wall	Black	HCXURW-03L	Dual-Lite	**13T371**
Halogen							
1	5 W	6 V	Wall	Bronze	HCXURW-03L	Dual-Lite	**13T372**
Steel Remote Heads							
LED							
1	5 W	6 V	Ceiling, End, Wall	White	L2ETXFL2GWW-U, L2ETXFL2RWW-U, LS2E4XL1GW, LS2E4XL1GW-FSH, LS2E4XL1RW, LS2E4XL1RW-FSH, LS2ECXL1RWW, LS2ECXL2RWW, LS2ET6S10-w-RC, LS2ET6S10-W-RC-SD, LS2SC12N7, LS2SC12N7-SD, LS2SC6S36, LS2SC6S36-SD	Big Beam	**783HP8**
2	5 W	6 V	Ceiling, End, Wall	White		Big Beam	**783HP9**
Steel Wet Location Remote Heads							
LED							
1	5 W	6 V	Ceiling, End, Wall	Black	L2ETXFL2GWW-U, L2ETXFL2RWW-U, LS2E4XL1GW, LS2E4XL1GW-FSH, LS2E4XL1RW, LS2E4XL1RW-FSH, LS2ECXL1RWW, LS2ECXL2RWW, LS2ET6S10-w-RC, LS2ET6S10-W-RC-SD, LS2SC12N7, LS2SC12N7-SD, LS2SC6S36, LS2SC6S36-SD	Big Beam	**783HR0**
2	5 W	6V	Ceiling, End, Wall	Black		Big Beam	**783HR1**

Plastic 487V44

Plastic Wet Location 32WU50

Aluminum Wet Location 26UX08

Steel 783HP9

Steel Wet Location 783HR1

COMPASS · LITHONIA LIGHTING · DUAL LITE · Big Beam Emergency Lighting

Remote Head Emergency Lights

- Adjustable light heads

Lights supplement illumination from primary emergency lighting in the event of a power loss. Connect to a compatible remote-capable emergency or exit light and draw power from it during an electrical outage. Remote heads provide coverage around corners, outside exits, and in areas primary emergency lights can't reach.

Plastic lights are economical, lightweight, and won't rust.

Aluminum lights are lightweight and corrosion resistant.

Steel lights are heavy-duty for use in areas that may be subject to impact or abuse.

4WT20

Emergency Lighting Batteries

Replacement batteries for exit signs and emergency lighting. Choose compatible battery based on specific brand and model of sign or fixture.

Compatible Mfr. Model Number	Voltage	Battery Capacity	Overall Height	Overall Width	Overall Depth	Item No.
Big Beam						
2COM1GWW, 2COM1GWW-PH, 2COM1RWW, 2COM1RWW-PH, 2DZF-PAR-GW, 2DZF-PAR-RW, 2EXKL2GWWU-3HRS, 2EXKL2RWWU-3HRS	6 V	4.6 Ah	4 in	2 in	2 ¾ in	**3WDD8**
E4XL1GW, E4XL1RW, L2ETXFL2GWW-U, L2ETXFL2RWW-U, LS2E4XL1GW, LS2E4XL1RW, LS2ECXL1RWW, LS2ECXL2RWW, LS2ET6S10-W-RC, LS2ET6S10-W-RC-SD	6 V	10 Ah	3 ¾ in	2 in	6 in	**3UVR2**
ECHL1RWW, ECHL2RWW, ERXL1WGCS, ERXL1WRCR, EVRXL2GWWU, EVRXL2RWWU, EXFL2GWWU, EXFL2RBB-U, EXFL2RWWU	7.2 V	600 mAh	1 ¾ in	¾ in	4 in	**3YAJ7**
LS2BR6S8, LS2SE6S8	6 V	7 Ah	3 ¾ in	1 ½ in	6 in	**3WDC1**
Mfr. No. 2SE12N7, Mfr. No. H2SE12N7	12 V DC	7 Ah	3 ½ in	2 ½ in	6 ¼ in	**783HP7**
Dual-Lite						
AS80; AS80I; CV3; CV3D; CV3DI; CV3I; CVEC15; CVEC15I; CVT3GB3; CVT3GB3D; CVT3GB3DI; CVT3GB3I; CVT3GB5D; CVT3GW3; CVT3GW3D; CVT3GW3DI; CVT3GW3I; CVT3GW5D; CVT3RB3; CVT3RB3D; CVT3RB3DI; CVT3RB3I; CVT3RW3; CVT3RW3D; CVT3RW3DI; CVT3RW3I; EZ-2D; EZ-2I; EZ-2RI; LM16; LM16I; LM34D; LM34DI; LM36CH; LM36ICH; LM40; LM40I; LM68D; LM68DI; LM80; LM80I; LSC; LSCI; N4X2; N4X2I;; N4X4; N4X4I; TG15; TG15I	6 V	7.2 Ah	4 in	6 in	1 ½ in	**16U265**
C1D2-12V36; C1D2-12V72; C1D2-6V36; C1D2-6V72; DL-7; DL-7-12V; LWW Series; ML-2EW-1CH; ML-7E; ML-7E-12V; ML-7E-12V-NY; ML-7E-NY; ML-7EW-12VCH; MLW-2EW-CH; MLW-7E; MLW-7E-12V; MLW-7E-12V-I; MLW-7E-12V-NY; MLW-7E-I; MLW-7E-I-NY; MLW-7E-NY; N4X14I120SAT; N4X14I480SAT; SW Series; TB-36-CH-12; TB-52; TB-52-12; TB-52I; TB-52I-12; WW Series	6 V	8 Ah	4 in	5 ½ in	2 ¼ in	**24D674**
CV2; CV2D; CV2DI; CV2I; CVT3GB; CVT3GBI; CVT3GW; CVT3GWI; CVT3RB; CVT3RBI; CVT3RW; CVT3RWI; DEX1EMFA; DEX2EMFA; DKURWE; EXT-122-EMK; EZ-2 ; EZ-2-220V; EZ-2-V; EZ-2R ; EZ2 ; Freedom LED Series; HCXUGB; HCXUGBRC12; HCXUGW; HCXUGWRC12; HCXURB; HCXURBRC12; HCXURW; HCXURWRC12; LM2; LTUGB; LTUGW; LTURB; LTURW; LZ2; SL1; SL1-V	6 V	4.5 Ah	4 ¼ in	2 ¾ in	2 in	**3WAK1**
CV3REB; CV3REW; CVD1REBN; CVD1REW; CVD2REBN; CVD2REW; LN4XRWE; LXURBE; LXURWE; SCDRBE; SCDRBNE; SCDRWE; SCDRWNE; SCSRBE; SCSRBNE; SCSRWE; SCSRWNE; SEDRBE; SEDRBNE; SEDRWE; SEDRWNE; SESRBE; SESRBNE; SESRWE; SESRWNE	2.4 V	600 mAh	1 in	2 ¼ in	1 ¼ in	**45VT45**
DYN12, DYN12-06L, DYN12I-06L	12.8 V	3 Ah	2 ¾ in	¾ in	5 ¾ in	**784H72**
DYN6I	12.8 V	1.5 Ah	¾ in	1 ¼ in	2 ¼ in	**784H70**
EDS; EDS-2; ERS; ERS-2-2; ERS-2I-2; ERS-3; ERS-3I; ERS-I; ESC-2-0; ESC-2-2; ESS-I; ESS-I-2; LTS Series; LTU Series ; LZ2 ; LZ2D ; LZ2DI ; LZ2I ; TB-15; TB-15I; TB-30; TB-30I	6 V	5 Ah	3 in	5 ½ in	2 ¼ in	**24D675**
EV2	2.4 V	1,300 mAh	¾ in	1 ¼ in	2 ¼ in	**784H66**
EV2D, EV2DI, EV2DI-24K, EV4D, EV4DB, EV4DI	2.4 V	1,300 mAh	¾ in	1 ¼ in	2 ¼ in	**784H69**
EV4D-02L, EV4DI-02L	2.4 V	1,500 mAh	¾ in	1 ¼ in	2 ¼ in	**784H67**
EVCH12	12.8 V	2,000 mAh	1 ½ in	2 in	3 ¼ in	**784H71**
EVCUGW, EVCUGWDI, EVCURBD, EVCURW, EVCURWD, EVCURWDI	6.4 V	0.6 Ah	1 ½ in	1 ¼ in	2 ¼ in	**784H73**
EVCUGWD4, EVCURWD4	6.4 V	1.2 Ah	¾ in	1 ¼ in	2 ¼ in	**784H75**
EVEUGWE, EVEUGWEI, EVEURWE, EVEURWEI	1.2 V	850 mAh	2 in	2 in	¾ in	**784H65**
LM34D-12V; LM34DI-12V; LM36CH-12V; LM36I-12VCH; LM40-12V; LM40I-12V; LM68D-12V; LM68DI-12V; LM80-12V; LM80I-12V; LZ30D-12V; LZ30DI-12V; LZ35-12V; LZ35I-12V	12 V	7.2 Ah	4 in	6 in	2 ½ in	**16U266**
LTUGB3; LTUGB3I; LTUGBD; LTUGBDI; LTUGW3; LTUGW3I; LTUGWD; LTUGWDI; LTURB3; LTURB3I; LTURBD; LTURBDI; LTURW3; LTURW3I; LTURWD; LTURWDI; LZ15; LZ15I; LZ2D; LZ2DI	6 V	3 Ah	2 ¾ in	6 in	1 ½ in	**24D678**
LXW-13-X2; LXW-15-X2; LXW-16-X2	4.8 V	600 mAh	1 ½ in	2 ¼ in	1 ¼ in	**24D679**
PGB; PGP; PGW; PGZ	8.4 V	2.5 Ah	2 ¼ in	7 ¼ in	1 ¼ in	**16U264**
PGP-HTR, PGW-HTR, PGZ-HTR	8.4 V	1,500 mAh	2 ½ in	2 in	8 in	**784H68**
SEWLDGBE, SEWLDGWE, SEWLDRBE, SEWLDRWE, SEWLSGBE, SEWLSGWE, SEWLSRWE	4.8 V	600 mAh	¾ in	1 ¼ in	4 ¼ in	**784H74**
Lithonia Lighting						
EL, LE, N Series	1.2 V	1.2 Ah	4 in	2 in	7 in	**38GT92**
ELM1254, ELM1272, ELM627, ELM654, IND1236, IND1254, IND618, IND636, IND654, INDX1236, INDX1254, INDX618, INDX654	6 V	12 Ah	3 ¾ in	6 in	2 in	**2PFW1**
ELM4; IND654; IND1254	6 V	10 Ah	3 ¾ in	6 in	2 in	**4PG87**
ELT125	12 V	28 Ah	6 ¼ in	7 ¾ in	5 ¼ in	**4PG82**
ELT275	12 V	75 Ah	10 ¼ in	6 ¾ in	9 ¾ in	**4PG70**
ELU2X; ELR2; ELT16; 6ELM2; HQM S W 3 R 120/277; HQM S W 3 G 120/277; IND618; IND1236	6 V	6.5 Ah	6 in	1 ½ in	4 in	**4PG76**
ELU3X; ELT36; ELT50	6 V	14 Ah	5 ½ in	4 ¼ in	2 ¾ in	**4PH12**
EU2LED	3.6 V	900 mAh	2 in	1 in	6 in	**38GT89**
IND12100	12 V	24 Ah	6 in	6 in	3 ¾ in	**2XLD6**
IND6100	6 V	36 Ah	6 in	6 in	3 ¾ in	**5TP39**
LHQM SW3RM4; LHQM S W 3 G 120/277; ELM2 SD; ELR2; X S W 3 G 120/277 EL; F2X S W 3 R 120/277 EL; QM S W 3 R 120/277 EL; ELM; ELM2; ELM2 B; LHQM S W 3 R HO M4; ECR M6	6 V	4 Ah	4 ¼ in	2 ¾ in	2 in	**4PH44**
LQC 1 G EL N	2.4 V	1.2 mAh	1 ½ in	¾ in	1 in	**2PFV8**
LQC 1 R EL N, LQC W 2 R EL N	1.2 V	1.2 Ah	1 ¾ in	1 in	1 in	**2XLD7**
LQM S 3 R 120/277 EL N M6, LQM S W 3 G 120/277 ELNSD, LQM S W 3 G ELN 120/277M6, LQM S W 3 R ELN 120/277M6	1.2 V	1 Ah	1 ¾ in	¾ in	¾ in	**2PFV7**
LV S W 1 R 120/277 EL N; LV S 1 R 120/277 EL N UM 4X	4.8 V	1.4 Ah	3 ½ in	1 in	1 ¾ in	**4PH21**
	2.4 V	1 Ah	1 ¾ in	1 ½ in	¾ in	**4WT21**
LV S W R 120/277 ELN UM	7.2 V	1.4 Ah	2 in	5 ½ in	1 in	**4PH22**
LX S W 3 G 120/277 EL N; LE S W 1 R 120/277 ELN SD; LE S W 2 R 120/277 ELN SD; LE S 1 R 120/277 EL N SD; LE S 2 R 120/277 EL N SD; LX W 3 R EL N; LE S 1 R 120/277 EL N; LE S 2 R 120/277 EL N; LE S W 1 R 120/277 EL N; LE S W 2 R 120/277 EL N; LQM S W 3 R ELN 120/277M6; LQM S W 3 R 120/277 ELNSD	1.2 V	1 Ah	1 ¾ in	¾ in	¾ in	**4WT20**
LX S W 3 G 120/277 EL N; LQM S W 3 R 120/277 ELNSD; LE S 1 R 120/277 EL N SD; LE S 2 R 120/277 EL N SD; LE S W 2 R 120/277 ELN SD; LE S W 1 R 120/277 ELN SD; LX W 3 R EL N; LE S 1 R 120/277 EL N; LE S 2 R 120/277 EL N; LE S W 1 R 120/277 EL N; LE S W 2 R 120/277 EL N	1.2 V	1 Ah	1 ¾ in	¾ in	¾ in	**2XLD5**
LumaPro						
6CGL1	6 V	12 Ah	4 in	6 in	2 in	**48H471**
6CGL2, 6CGN1, 6CGN2, 6CGN3, 6CGN4	6 V	4.5 Ah	4 ¼ in	2 in	2 ¾ in	**48H470**
6CGL3, 6CGL4	4.8 V	300 mAh	1 ¾ in	¾ in	¾ in	**48H465**
6CGL5	2.4 V	300 mAh	2 in	1 ¼ in	½ in	**48H468**
6CGL6	3.6 V	300 mAh	2 in	1 ¼ in	1 in	**48H467**
6CGL9, 6CGN0, 6CGN5, 6CGN6, 6CGN7, 6CGN8	4.8 V	650 mAh	2 in	1 ¼ in	1 ¼ in	**48H466**

Light Covers
16D858

Vandal Guard
3XE33

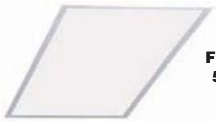
Emergency Light Covers and Shields

Light covers are wire guards that mount over emergency lights and exit signs to protect against impact and scrapes.

Vandal guards are clear, solid polycarbonate shields that totally enclose emergency lights and exit signs to protect them from damage and tampering.

Compatible Mfr. Model Number	Overall Height	Overall Width	Overall Depth	Item No.
Emergency Light Covers				
Lithonia Lighting				
D-Series Back, ELA Q LED, ELM/ELM2, ELM2 LED, ELM2L/ELM2LF/ELM4L/ELM6L, ELM6 LED, EU2 LED, EU2C Back Mount, EU2L Back Mount, EX LED (R/G) Back Mount, EXRM Back Mount, LE Back Mount, LE NY Back Mount, LQC Back Mount, LQM Back Mount, LX NY Back Mount, LXC Back Mount, TLE Back Mount, WLTE Back Mount, WLTU MR	13 ¾ in	15 ¼ in	6 in	**4YFV2**
EC LED, ECC, ECRM, EU2, LHQM, LHQM LED, LHQM LP06VS	7 ¾ in	5 ½ in	5 ¾ in	**4YFV1**
Chloride				
SPU Series (fully recessed), Patron, SL Series	15 in	12 ½ in	5 ½ in	**784H21**
Safety Technology International				
STI 9640; STI 9641	15 ½ in	20 ½ in	6 in	**16D858**
STI-9644	10 ½ in	24 ½ in	11 ¼ in	**8C246**
STI 9649	8 ½ in	17 ¾ in	5 ½ in	**16D857**
STI-9740; STI-9741	10 ½ in	13 ¾ in	2 ¾ in	**8C245**
Vandal Guard Shields				
Lithonia Lighting				
ELM, ELM2, ELMLT	4 ¾ in	15 in	9 ¾ in	**3XE33**
ELM1254, ELM1272, ELM618, ELM627, ELM654	10 in	22 in	9 ¾ in	**5YB66**
ELM2L, ELM2LF, ELM4L, ELM6L QUANTUM(R), ELMRE	7 ¼ in	5 ½ in	5 ¾ in	**784H12**
	9 ¼ in	6 in	6 in	**784H13**

Center-Basket Lens 48LU31



Flat Lens 56DZ74

For information on Lighting Certification, see page 422.

2 ft. x 4 ft. LED Panels & Troffers

- 120/277V AC

LED fixtures can replace fixtures of the same size that use 2 to 6 linear light bulbs. They have built-in LED arrays so there are no light bulbs to install or replace. Commonly used to light large classrooms, hallways, office spaces, or department stores.

Center-Basket Lens—Lens has a curved middle section that reflects light to disperse it across a wider area than a flat lens. It also softens lighting to reduce harshness.

Flat Lens—Lens focuses light downward and reduces glare to provide a smooth, consistent lighting effect.

Flat Lens with Controls—Integrated controls on these LED panels allow use with lighting control systems to operate sensors, dimmers, or other control features.

Lumen & Color Temp-Selectable Flat Lens—Lumen and color temp-selectable LED panels have inner switches for choosing light output and color tone settings to suit a room or application.

Max. Fixture Wattage	Color Index	Emergency Battery Backup	Dimmable	Overall Height	Lighting Certification	Series	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.
Center-Basket Lens 2 ft. x 4 ft. LED Panels & Troffers												
Columbia Lighting												
36 W	80	No	Yes	4 in	DLC 5.0	LCAT	4,168 lm	120 lm/W	**53VX69**	4,307 lm	122 lm/W	**53VX77**
39 W	80	No	Yes	4 in	DLC 5.0	LCAT	4,788 lm	125 lm/W	**53VX73**	4,886 lm	127 lm/W	**53VX81**
Daybrite												
36 W	80	Yes	Yes	3 in	DLC Qualified	Fluxgrid	4,300 lm	120 lm/W	**60VC96**	4,300 lm	120 lm/W	**60VC97**
41 W	80	No	Yes	2 ¾ in	DLC 5.0	EvoGrid	—	—	—	4,300 lm	139 lm/W	**45KJ04**
48 W	80	No	Yes	2 ¾ in	DLC Qualified	Evogrid	4,800 lm	139 lm/W	**60VD01**	4,800 lm	139 lm/W	**60VD02**
48 W	80	Yes	Yes	2 ¾ in	DLC Qualified	Evogrid	4,800 lm	139 lm/W	**60VD09**	4,800 lm	139 lm/W	**60VD10**
55 W	80	No	Yes	2 ¾ in	DLC Qualified	Evogrid	5,400 lm	139 lm/W	**60VD05**	5,400 lm	139 lm/W	**60VD06**
55 W	80	Yes	Yes	2 ¾ in	DLC Qualified	Evogrid	5,400 lm	139 lm/W	**60VD13**	5,400 lm	139 lm/W	**60VD14**
83 W	80	No	Yes	2 ¾ in	DLC 5.0	EvoGrid	—	—	—	7,400 lm	139 lm/W	**45KJ06**
Juno Lighting												
36 W	80	No	Yes	3 ⅞ in	DLC 4.4	S2X4	4,013 lm	111.5 lm/W	**45CA14**	4,132 lm	114.7 lm/W	**45CA03** *
36 W	80	Yes	Yes	3 ⅞ in	DLC 4.4	S2X4	—	—	—	4,132 lm	114.7 lm/W	**45CA26** *
53 W	80	No	Yes	3 ⅞ in	DLC 4.4	S2X4	5,928 lm	111.8 lm/W	**45CA02**	6,103 lm	115.2 lm/W	**45CA07** *
53 W	80	Yes	Yes	3 ⅞ in	DLC 4.4	S2X4	—	—	—	6,103 lm	115.2 lm/W	**45CA30** *
Lithonia Lighting												
23 W	82	No	Yes	4 ⅜ in	DLC 5.0 Premium	2FSL4	3,000 lm	130 lm/W	**30YH56**	3,051 lm	133 lm/W	**30YH57**
31.6 W	82	No	Yes	2 ⅜ in	DLC 5.0 Premium	2BLT4	4,000 lm	126.2 lm/W	**48LU30**	4,063 lm	128.2 lm/W	**48LU31**
31.7 W	82	No	No	4 ⅜ in	—	2FSL4	—	—	—	4,086 lm	129 lm/W	**38TA05**
31.7 W	82	No	Yes	4 ⅜ in	DLC 5.0 Premium	2FSL4	4,017 lm	127 lm/W	**30YH58**	4,086 lm	129 lm/W	**30YH59**
38 W	82	No	Yes	2 ⅜ in	DLC 5.0	2BLT4	4,960 lm	130.5 lm/W	**48LU32**	5,039 lm	132.5 lm/W	**48LU33**
38.3 W	80	No	Yes	4 ⅜ in	DLC 5.0 Premium	2VTL4	5,238 lm	136 lm/W	**54ZY54**	—	—	—
38.5 W	82	No	Yes	4 ⅜ in	DLC 5.0 Premium	2FSL4	4,896 lm	127 lm/W	**30YH60**	4,979 lm	129 lm/W	**30YH61**
Lumination												
33.5 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	4,000 lm	119 lm/W	**52YK36**	4,000 lm	119 lm/W	**52YK41**
33.5 W	80	No	Yes	2 ¾ in	DLC 5.0 Premium	LVT	4,000 lm	119 lm/W	**60TZ71**	4,000 lm	119 lm/W	**60TZ70**
42 W	90	Yes	Yes	4 ½ in	DLC 4.4	LBV	4,800 lm	107 lm/W	**417Y33**	4,800 lm	109 lm/W	**417Y32**
42 W	90	No	Yes	4 ½ in	DLC 4.4	LBV	4,800 lm	117 lm/W	**417Y31**	4,800 lm	119 lm/W	**417Y30**
43 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	4,800 lm	112 lm/W	**52YK37**	4,800 lm	112 lm/W	**52YK42**
60 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	—	—	—	7,200 lm	120 lm/W	**52YK44**
Philips												
33.7 W	80	No	Yes	3 in	DLC 5.0	FluxGrid	4,200 lm	124 lm/W	**210L65**	4,200 lm	124 lm/W	**210L66**
Flat Lens 2 ft. x 4 ft. LED Panels & Troffers												
Columbia Lighting												
34 W	80	No	Yes	3 ⅛ in	DLC 5.0 Premium	LJT	4,268 lm	126 lm/W	**53XY55**	4,334 lm	127 lm/W	**53XY63**
38 W	80	No	Yes	3 ⅛ in	DLC 5.0 Premium	LJT	4,772 lm	123 lm/W	**32WU73**	4,792 lm	125 lm/W	**53XY65**
45 W	80	No	Yes	3 ⅛ in	DLC 5.0	LJT	5,441 lm	120 lm/W	**53XY59**	5,526 lm	122 lm/W	**53XY67**
73 W	80	No	Yes	3 ⅛ in	DLC 5.0	LJT	—	—	—	8,966 lm	123 lm/W	**53XY74**
Daybrite												
40 W	80	No	Yes	3 in	DLC	FluxPanel	4,200 lm	32.6 lm/W	**60VC87**	4,200 lm	32.5 lm/W	**60VC88**
Lithonia Lighting												
23.2 W	82	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	2,983 lm	128 lm/W	**19YR06**	3,102 lm	133 lm/W	**19YR07**
35.7 W	82	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	4,777 lm	133 lm/W	**19YR20**	4,968 lm	139 lm/W	**19YR21**
39 W	80	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	4,000 lm	105 lm/W	**48H438**	4,000 lm	110 lm/W	**48H439**
40 W	82	No	Yes	3 ¾ in	DLC 5.0	2TL4	4,831 lm	120.7 lm/W	**31A159**	—	—	—
48.7 W	82	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	6,218 lm	127 lm/W	**19YR22**	6,466 lm	132 lm/W	**19YR23**
53.2 W	82	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	7,351 lm	138 lm/W	**19YR24**	7,645 lm	143 lm/W	**19YR25**
Lumination												
36 W	80	No	Yes	3 ¾ in	DLC 5.0	LBT	4,800 lm	133 lm/W	**48TK54**	4,800 lm	133 lm/W	**48TK53**
36 W	80	Yes	Yes	3 ¾ in	DLC 5.0	LBT	4,800 lm	133 lm/W	**48TK56**	4,800 lm	133 lm/W	**48TK55**
Flat Lens 2 ft. x 4 ft. LED Panels & Troffers with Controls												
Columbia Lighting												
37 W	80	No	Yes	2 in	DLC 5.0 Premium	VSY24	4,812 lm	131 lm/W	**56DZ78**	4,893 lm	133 lm/W	**56DZ79**
Lithonia Lighting												
30 W	80	No	Yes	2 ¼ in	DLC 5.0 Premium	EPANL	3,953 lm	131 lm/W	**420V81**	—	—	—
31 W	80	No	Yes	2 ¼ in	DLC 5.0 Premium	EPANL	—	—	—	4,013 lm	131 lm/W	**420V83**
37 W	80	No	Yes	2 ¼ in	DLC 4.4	EPANL	—	—	—	3,898 lm	106 lm/W	**420V82**
39 W	80	No	Yes	2 ¼ in	DLC 4.4	EPANL	4,039 lm	104 lm/W	**420V80**	—	—	—

Max. Fixture Wattage	Color Temp.	Lumens	Color Index	Emergency Battery Backup	Dimmable	Overall Height	Lighting Certification	Series	Item No.
Color Temp-Selectable Center-Basket Lens									
Remphos									
20 W, 26 W, 34 W, 40 W	3500K, 4000K, 5000K	3,390 lm	85	No	Yes	1 31/50 in	DLC Premium	TTV/TTF-G1	**61HP73**
Color Temp-Selectable Flat Lens									
Columbia Lighting									
56 W	3500K, 4000K	7,364 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**61JC77**
Daybrite									
51 W	3500K, 4000K, 5000K	5,847 lm	80	No	Yes	1 ½ in	DLC	SBP	**60VC81**
Remphos									
20 W, 26 W, 34 W, 40 W	3500K, 4000K, 5000K	3,390 lm	85	No	Yes	1 31/50 in	DLC Premium	TTV/TTF-G1	**61HP70**
Lumen & Color Temp-Selectable Flat Lens									
Keystone Technologies									
50 W	3500K, 4000K, 5000K	3,600 lm, 3,700 lm, 4,600 lm, 4,700 lm, 5,500 lm, 5,600 lm	80	No	Yes	2 ½ in	—	XFit	**61HP96**
50 W	3500K, 4000K, 5000K	3,600 lm, 3,700 lm, 4,600 lm, 4,700 lm, 5,500 lm, 5,600 lm	80	Yes	Yes	6 in	—	XFit	**61HP99**
Lithonia Lighting									
52 W	3500K, 4000K, 5000K	4,000 lm, 5,000 lm, 6,000 lm	80	No	Yes	1 ¼ in	DLC	CPANL	**54XM24**
Lumen-Selectable Flat Lens									
Columbia Lighting									
30 W	3500K	3,400 lm, 4,100 lm, 5,500 lm	80	No	Yes		DLC	CFP	**56FH45**
30 W, 39 W, 49 W	3500K	3,197 lm, 5,024 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**61JC75**
31 W, 40 W, 50 W	4000K	3,945 lm, 6,143 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**61JC76**
50 W	4000K	3,400 lm, 4,100 lm, 5,500 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**56DZ74**

** 4100 K color temp.*

Columbia Lighting · Philips Day-Brite · Juno Lighting Group · Lithonia Lighting · PHILIPS · RCA · RemPhos · Keystone

2 ft. x 2 ft. LED Panels & Troffers

- 120/277V AC

LED fixtures can replace fixtures of the same size that use U-bend light bulbs or 1 to 4 fluorescent linear light bulbs. Commonly used to light spaces where larger fixtures would provide too much direct light.

Center-Basket Lens—Lens has a curved middle section that reflects light to disperse it across a wider area than a flat lens. It also softens lighting to reduce harshness.

Center-Basket Lens with Controls—Integrated controls allow use with lighting control systems to operate sensors, dimmers, or other control features.

Flat Lens—Lens focuses light downward and reduces glare to provide a smooth, consistent lighting effect.

Flat Lens with Controls—Integrated controls on these LED panels allow use with lighting control systems to operate sensors, dimmers, or other control features.

Lumen & Color Temp-Selectable Flat Lens—Lumen and color temp-selectable LED panels have inner switches for choosing light output and color tone settings to suit a room or application.

Center-Basket Lens 417Y26

Flat Lens 420V76

Max. Fixture Wattage	Color Index	Emergency Battery Backup	Dimmable	Overall Height	Lighting Certification	Series	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.
Center-Basket Lens 2 ft. x 2 ft. LED Panels & Troffers												
Columbia Lighting												
23 W	80	No	Yes	4 in	DLC 5.0	LCAT	2,770 lm	122 lm/W	**53VX45**	2,232 lm	123 lm/W	**53VX53**
29 W	80	No	Yes	4 in	DLC 5.0	LCAT	3,259 lm	118 lm/W	**53VX47**	3,326 lm	119 lm/W	**53VX55**
39 W	80	No	Yes	4 in	DLC 5.0	LCAT	—	—	—	4,466 lm	116 lm/W	**53VX60**
Daybrite												
30 W	80	No	Yes	2 ¾ in	DLC 5.0	EvoGrid	—	—	—	3,000 lm	119 lm/W	**45KJ03**
33 W	80	No	Yes	2 ¾ in	DLC Qualified	Evogrid	3,800 lm	119 lm/W	**60VC98**	3,800 lm	119 lm/W	**60VC99**
33 W	80	Yes	Yes	2 ¾ in	DLC Qualified	Evogrid	3,800 lm	119 lm/W	**60VD07**	3,800 lm	119 lm/W	**60VD08**
33.4 W	80	Yes	Yes	3 in	DLC Qualified	Fluxgrid	3,800 lm	120 lm/W	**60VC94**	3,800 lm	120 lm/W	**60VC95**
39 W	80	No	Yes	2 ¾ in	DLC Qualified	Evogrid	4,500 lm	119 lm/W	**60VD03**	4,500 lm	119 lm/W	**60VD04**
39 W	80	Yes	Yes	2 ¾ in	DLC Qualified	Evogrid	4,500 lm	119 lm/W	**60VD11**	4,500 lm	119 lm/W	**60VD12**
Juno Lighting												
36 W	80	No	Yes	3 ⅞ in	DLC 4.4	S2X2	4,041 lm	112.2 lm/W	**45CA18**	4,161 lm	115.6 lm/W	**45CA31** *
Lithonia Lighting												
16 W	82	No	Yes	3 in	DLC 5.0 Premium	2BLTR	2,051 lm	132 lm/W	**53KC60**	2,084 lm	134 lm/W	**53KC63**
16.3 W	82	No	Yes	4 ⅜ in	DLC 5.0 Premium	2FSL2	1,984 lm	121 lm/W	**30YH50**	2,018 lm	123 lm/W	**30YH51**
26 W	82	No	Yes	3 in	DLC 5.0 Premium	2BLTR	3,351 lm	130 lm/W	**53KC61**	3,404 lm	132 lm/W	**53KC64**
26.2 W	80	No	Yes	4 ⅜ in	DLC 5.0 Premium	2VTL2	3,299 lm	126 lm/W	**54ZY55**	—	—	—
26.6 W	82	No	Yes	2 ⅜ in	DLC 5.0 Premium	2BLT2	3,332 lm	124.8 lm/W	**48LU28**	3,385 lm	126.8 lm/W	**48LU29**
27.1 W	82	No	Yes	4 ⅜ in	DLC 5.0 Premium	2FSL2	3,355 lm	124 lm/W	**30YH52**	3,412 lm	126 lm/W	**30YH53**
27.1 W	82	No	No	4 ⅜ in	DLC 5.0 Premium	2FSL2	—	—	—	3,412 lm	126 lm/W	**38TA04**
31 W	82	No	Yes	3 in	DLC 5.0 Premium	2BLTR	4,038 lm	130 lm/W	**53KC62**	4,102 lm	132 lm/W	**53KC65**
33.7 W	82	No	Yes	4 ⅜ in	DLC 5.0	2FSL2	4,032 lm	120 lm/W	**30YH54**	4,100 lm	122 lm/W	**30YH55**
37 W	82	No	Yes	3 ⅛ in	DLC 5.0	2RTL2	4,262 lm	115 lm/W	**4ZCZ8**	—	—	—
Lumination												
16.5 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	2,000 lm	121 lm/W	**52YK23**	2,000 lm	121 lm/W	**52YK27**
29 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	3,300 lm	114 lm/W	**52YK24**	3,300 lm	114 lm/W	**52YK28**
29 W	80	No	Yes	2 ¾ in	DLC 5.0 Premium	LVT	3,300 lm	114 lm/W	**60TZ68**	3,300 lm	114 lm/W	**60TZ67**
37 W	80	No	Yes	2 ¾ in	DLC 5.0	LVT	4,000 lm	108 lm/W	**52YK25**	4,000 lm	108 lm/W	**52YK29**
42 W	90	No	Yes	4 ½ in	DLC 4.4	LBV	3,300 lm	100 lm/W	**417Y27**	3,300 lm	110 lm/W	**417Y26**
42 W	90	Yes	Yes	4 ½ in	DLC 4.4	LBV	3,300 lm	88 lm/W	**417Y29**	3,300 lm	97 lm/W	**417Y28**
Philips												
33.5 W	80	No	Yes	3 in	DLC 5.0	FluxGrid	3,800 lm	114 lm/W	**210L63**	3,800 lm	114 lm/W	**210L64**
Center-Basket Lens 2 ft. x 2 ft. LED Panels & Troffers with Controls												
Columbia Lighting												
24 W	80	No	Yes	2 in	DLC 5.0 Premium	VSY22	3,276 lm	134 lm/W	**56DZ76**	3,331 lm	136 lm/W	**56DZ77**
Flat Lens 2 ft. x 2 ft. LED Panels & Troffers												
Daybrite												
33 W	80	No	Yes	1 ⅝ in	Unrated	FPZ	3,800 lm	29.8 lm/W	**60VC84**	3,800 lm	29.8 lm/W	**60VC85**
Hubbell Lighting - Columbia												
31 W	80	No	Yes	4 ¼ in	DLC 5.0	LJT	3,365 lm	108 lm/W	**53XY42**	3,472 lm	109 lm/W	**53XY49**
33 W	80	No	Yes	4 ¼ in	DLC 5.0	LJT	3,684 lm	113 lm/W	**32WU72**	4,051 lm	114 lm/W	**53XY50**
Lithonia Lighting												
18.2 W	82	No	Yes	3 ¼ in	DLC 5.0 Premium	2GTL	2,248 lm	122 lm/W	**19YR04**	2,337 lm	127 lm/W	**19YR05**
28.6 W	82	No	Yes	3 ¼ in	DLC 5.0	2GTL	3,360 lm	117 lm/W	**19YR18**	3,494 lm	122 lm/W	**19YR19**
29 W	82	No	Yes	3 ¾ in	DLC 5.0	2TL2	3,317 lm	114.4 lm/W	**11K569**	—	—	—
40 W	80	No	Yes	3 ¼ in	DLC 5.0	2GTL	3,700 lm	94 lm/W	**48H440**	3,700 lm	98 lm/W	**48H441**
RCA												
30 W	80	No	Yes	1 ⅝ in	DLC	—	3,230 lm	109 lm/W	**53DD37**	3,300 lm	110 lm/W	**53DD38**
Flat Lens 2 ft. x 2 ft. LED Panels & Troffers with Controls												
Lithonia Lighting												
26 W	80	No	Yes	2 ¼ in	DLC 5.0 Premium	EPANL	3,357 lm	129 lm/W	**420V77**	3,361 lm	130 lm/W	**420V79**
31 W	80	No	Yes	2 ¼ in	DLC 4.4	EPANL	3,285 lm	105 lm/W	**420V76**	3,270 lm	107 lm/W	**420V78**
Lumination												
26 W	80	Yes	Yes	3 ¾ in	DLC 5.0	LBT	3,300 lm	127 lm/W	**48TK52**	3,300 lm	127 lm/W	**48TK51**
26 W	80	No	Yes	3 ¾ in	DLC 5.0	LBT	3,300 lm	127 lm/W	**48TK50**	3,300 lm	127 lm/W	**48TK49**

Max. Fixture Wattage	Color Temp.	Lumens	Color Index	Emergency Battery Backup	Dimmable	Overall Height	Lighting Certification	Series	Item No.
Color Temp-Selectable Center-Basket Lens									
Remphos									
16 W, 20 W, 24 W, 28 W	3500K, 4000K, 5000K	2,032 lm	85	No	Yes	1 ⅝ in	DLC Premium	TTV/TTF-G1	**61HP72**
Color Temp-Selectable Flat Lens									
Daybrite									
39 W	3500K, 4000K, 5000K	4,247 lm	80	No	Yes	1 ½ in	DLC	SBP	**60VC80**
Remphos									
16 W, 20 W, 24 W, 28 W	3500K, 4000K, 5000K	2,032 lm	85	No	Yes	1 31/50 in	DLC Premium	TTV/TTF-G1	**61HP69**
Lumen & Color Temp-Selectable Flat Lens									
Columbia Lighting									
24 W, 28 W, 38 W	3500K, 4000K, 5000K	3,044 lm, 4,702 lm	80	No	Yes	1 ¾ in	DLC	CBT	**61JC65**
Keystone Technologies									
40 W	3500K, 4000K, 5000K	2,400 lm, 2,500 lm, 3,500 lm, 3,600 lm, 4,400 lm, 4,500 lm	80	No	Yes	2 ½ in	—	XFit	**61HP97**
40 W	3500K, 4000K, 5000K	2,400 lm, 2,500 lm, 3,500 lm, 3,600 lm, 4,400 lm, 4,500 lm	80	Yes	Yes	4 ¼ in	—	XFit	**61HR01**
Lithonia Lighting									
20 W, 28 W, 39 W	3500K, 4000K, 5000K	2,400 lm, 3,300 lm, 4,400 lm	80	No	Yes	1 ¼ in	DLC QPL	CPANL	**60VY92**
RCA									
50 W	3500K, 4000K, 5000K	2,500 lm, 3,750 lm, 5,000 lm	80	No	Yes	1 ⅝ in	DLC 5.0 Premium	—	**61RG53**
Lumen-Selectable Flat Lens									
Columbia Lighting									
25 W, 30 W, 40 W	3500K	2,876 lm, 4,281 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**61JC71**
26 W, 30 W, 40 W	4000K	3,382 lm, 5,001 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**61JC72**
40 W	3500K	2,800 lm, 3,300 lm, 4,000 lm	80	No	Yes	1 ¾ in	DLC	CFP	**56FH44**
40 W	3500K	2,991 lm, 3,583 lm, 4,474 lm	80	No	Yes	1 ¾ in	DLC 5.0	CBT	**56FH39**
40 W	4000K	2,800 lm, 3,300 lm, 4,000 lm	80	No	Yes	1 ⅝ in	DLC	CFP	**56DZ73**

** 4100 K color temp.*

For information on Lighting Certification, see page 422.

Center-Basket Lens
45CA06

Flat Lens
420V72

1 ft. x 4 ft. LED Panels & Troffers

- 120/277V AC
- Dimmable

LED fixtures can replace fixtures of the same size that use 1 or 2 fluorescent linear light bulbs. They use significantly less energy than fluorescent troffers and have built-in LED arrays so there are no light bulbs to install or replace. The 1 x 4 size is used to light narrow conference rooms, corridors, and other spaces that need a large amount of light but can't accommodate a larger fixture.

Center-Basket Lens—Lens has a curved middle section that reflects light to disperse it across a wider area than a flat lens. It also softens lighting to reduce harshness.

Flat Lens—Lens focuses light downward and reduces glare to provide a smooth, consistent lighting effect.

Flat Lens with Controls—Integrated controls on these LED panels allow use with lighting control systems to operate sensors, dimmers, or other control features.

Lumen & Color Temp-Selectable Flat Lens—Lumen and color temp-selectable LED panels have inner switches for choosing light output and color tone settings to suit a room or application.

Max. Fixture Wattage	Color Temp.	Lumens	Color Index	Emergency Battery Backup	Overall Height	Lighting Certification	Series	Item No.
Center-Basket Lens 1 ft. x 4 ft. LED Panels & Troffers								
Columbia Lighting								
36 W	3500K	4,455 lm	80	No	4 in	DLC 5.0	LCAT	**53VU45**
	4000K	4,578 lm	80	No	4 in	DLC 5.0	LCAT	**53VU53**
	5000K	4,985 lm	80	No	4 in	DLC 5.0	LCAT	**53VX38**
38 W	3500K	4,830 lm	80	No	4 in	DLC 5.0	LCAT	**53VU49**
	4000K	4,905 lm	80	No	4 in	DLC 5.0	LCAT	**53VX35**
Daybrite								
31.9 W	3500K	3,800 lm	80	Yes	3 in	DLC Qualified	Fluxgrid	**60VC92**
	4000K	3,800 lm	80	Yes	3 in	DLC Qualified	Fluxgrid	**60VC93**
33.6 W	3500K	4,100 lm	80	No	3 in	DLC Qualified	Fluxgrid	**60VC90**
	4000K	4,100 lm	80	No	3 in	DLC Qualified	Fluxgrid	**60VC91**
Juno Lighting								
36 W	3000K	3,881 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA21**
	3500K	3,939 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA06**
	4100K	4,056 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA15**
	5000K	4,114 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45AZ97**
53 W	3000K	5,578 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA22**
	3500K	5,713 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA32**
	4100K	5,831 lm	80	Yes	3 ⅞ in	DLC 4.4	S1X4	**45CA10**
	4100K	5,831 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA20**
	5000K	6,140 lm	80	No	3 ⅞ in	DLC 4.4	S1X4	**45CA08**
Lithonia Lighting								
15 W	4000K	1,918 lm	82	No	3 ¾ in	DLC 5.0 Premium	2BLTR	**53KC71**
23 W	4000K	2,935 lm	82	No	3 ¾ in	DLC 5.0 Premium	2BLTR	**53KC72**
33 W	3500K	4,114 lm	82	No	2 ¾ in	DLC 5.0 Premium	BLT4	**48LU34**
	4000K	4,179 lm	82	No	2 ¾ in	DLC 5.0 Premium	BLT4	**48LU35**
Lumination								
35 W	3500K	4,000 lm	80	No	4 in	DLC 5.0	LVT	**52YK50**
	4000K	4,000 lm	80	No	4 in	DLC 5.0	LVT	**52YK51**
Flat Lens 1 ft. x 4 ft. LED Panels & Troffers								
Columbia Lighting								
38 W	4000K	4,222 lm	80	No	4 ⅞ in	DLC 5.0	LJT	**53XY40**
Daybrite								
30 W	3500K	3,800 lm	80	Yes	3 in	Unrated	FPZ	**60VC82**
	4000K	3,800 lm	80	Yes	3 in	Unrated	FPZ	**60VC83**
Flat Lens 1 ft. x 4 ft. LED Panels & Troffers with Controls								
Lithonia Lighting								
30 W	4000K	3,857 lm	80	No	2 ¼ in	DLC 5.0 Premium	EPANL	**420V75**
31 W	3500K	3,922 lm	80	No	2 ¼ in	DLC 5.0 Premium	EPANL	**420V73**
38 W	4000K	4,397 lm	80	No	2 ¼ in	DLC 5.0	EPANL	**420V74**
39 W	3500K	3,905 lm	80	No	2 ¼ in	DLC 4.4	EPANL	**420V72**
Lumen & Color Temp-Selectable Flat Lens 1 ft. x 4 ft. LED Panels & Troffers								
Columbia Lighting								
24 W, 28 W, 38 W	3500K, 4000K, 5000K	3,068 lm, 4,731 lm	80	No	1 ¾ in	DLC	CBT	**61JC64**
Daybrite								
39 W	3500K, 4000K, 5000K	4,443 lm	80	No	1 ½ in	Unrated	SBP	**60VC79**
Keystone Technologies								
40 W	3500K, 4000K, 5000K	2,400 lm, 2,500 lm, 3,500 lm, 3,600 lm, 4,400 lm, 4,500 lm	80	No	2 ½ in	—	XFit	**61HP98**
Lithonia Lighting								
39 W	3500K, 4000K, 5000K	2,400 lm, 3,300 lm, 4,400 lm	80	No	1 ¼ in	DLC	CPANL	**54XM22**
Remphos								
16 W, 20 W, 24 W, 28 W	3500K, 4000K, 5000K	2,480 lm	85	No	1 ½ in	DLC Premium	TTV/ TTF-G1	**61HP74**
	3500K, 4000K, 5000K	2,480 lm	85	No	1 ½ in	DLC Premium	TTV/ TTF-G1	**61HP71**

Flat Lens
5YA52

Flat Lens
3XY97

Parabolic Lens
31LA72

Fluorescent Troffers

- Electronic ballast
- Non-dimmable

Troffers mount in drop ceiling grids to supply a large amount of light for spaces such as offices, classrooms, retail settings, and hallways. They use linear or U-bend light bulbs in a size that matches the fixture and with a base type that matches the fixture ballast. The fixtures accept fluorescent bulbs and some types of LED bulbs.

For Bulb Type	Max. Fixture Wattage	Voltage	Lamp Qty.	Lamp Incl.	Overall Height	Series	Item No.
1 ft. x 4 ft. Fluorescent Troffers							
Flat Lens							
T8	64 W	120 to 277V	2	No	4 ½ in	GT8	**5YA52**
	64 W	120 to 277V	2	No	4 ½ in	GT8	**4LB82**
2 ft. x 2 ft. Fluorescent Troffers							
T8	51 W	120 to 277V	3	Yes	3 ¼ in	2GT8	**40L071**
	51 W	120 to 277V	3	No	3 ¼ in	2GT8	**6RPY6**
T8 U Bend	62 W	120 to 277V	2	No	3 ¼ in	2GT8	**2MZJ7**
	64 W	120 to 277V	2	No	3 ¼ in	GT2	**3XY95**
Parabolic Lens							
T8 U Bend	64 W	120 to 277V	2	No	4 ½ in	PT	**1PLR3**
2 ft. x 4 ft. Fluorescent Troffers							
Flat Lens							
T8	64 W	120 to 277V	2	No	3 ¼ in	2GT8	**1THT2**
	64 W	120 to 277V	2	No	3 ¼ in	GT2	**3XY94**
	64 W	120 to 277V	2	Yes	3 ¼ in	2GT8	**40L070**
	96 W	120 to 277V	3	No	3 ¼ in	2GT8	**1THT5**
	96 W	120 to 277V	3	No	3 ¼ in	2GT8	**1THT6**
	96 W	120 to 277V	3	No	3 ¼ in	2GT8	**1THU2**
	96 W	120 to 277V	3	No	3 ¼ in	GT3	**3XY96**
	96 W	120 to 277V	3	Yes	3 ¼ in	2GT8	**40L069**
	96 W	120 to 277V	3	No	3 ¼ in	2GT8	**6RPY8**
	128 W	120V	4	No	3 ¼ in	2GT8	**38GT84**
	128 W	120 to 277V	4	No	5 in	SRT	**3XY68**
	128 W	120 to 277V	4	No	3 ¼ in	GT4	**3XY97**
	128 W	120 to 277V	4	No	3 ¼ in	2GT8	**3XY98**
	128 W	120 to 277V	4	No	3 ¼ in	GT4	**3XY99**
	128 W	120 to 277V	4	Yes	3 ¼ in	GT4	**3YA10**
Parabolic Lens							
T8	96 W	120 to 277V	3	No	4 ½ in	PT	**1PLR4**
	96 W	120 to 277V	3	Yes	5 in	PT	**31LA72**

54ZH18

LITETRONICS®

LED Light Bars

- 120/277V AC
- Dimmable

LED retrofits maintain the look of a fixture and connect to the existing housing so that the fixture doesn't have to be completely removed, replaced, and rewired. They fit into existing fixtures of a compatible size and shape to convert them to LED technology for reduced operating costs.

Max. Fixture Wattage	Color Index	LED Replacement For	Lighting Certification	Series	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.	5000K Lumens	5000K Lumens Per Watt	5000K Item No.
Litetronics													
2 ft x 2 ft Nominal Size													
30 W	82	T8 U-Bend	DLC	No Series	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH15**	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH16**	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH17**
2 ft x 4 ft Nominal Size													
30 W	82	3 Lamp T8	DLC	No Series	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH18**	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH19**	3,140 lm, 3,925 lm, 4,700 lm	156 lm/W	**54ZH20**
35 W	82	2 Lamp T5, 4 Lamp T8, HID	DLC	No Series	3,600 lm, 4,700 lm, 5,500 lm	156 lm/W	**54ZH21**	3,600 lm, 4,700 lm, 5,500 lm	156 lm/W	**54ZH22**	3,600 lm, 4,700 lm, 5,500 lm	156 lm/W	**54ZH23**

LED Volumetric Retrofit Kits

Columbia LIGHTING | LITHONIA LIGHTING | PHILIPS

- 120/277V AC

Retrofit kits convert fluorescent troffers to an LED fixture with a center-basket lens that reflects light to disperse it across a wider area than a flat lens. The center-basket lens softens lighting to reduce harshness and has a more appealing design than a flat lens. These kits have built-in LED arrays so there are no bulbs to install or replace.

48TK59

46F520

Max. Fixture Wattage	Color Index	Dimmable	LED Replacement For	Sensor Type	Lighting Certification	Series	3500K Lumens	3500K Lumens Per Watt	3500K Item No.	4000K Lumens	4000K Lumens Per Watt	4000K Item No.
Albeo												
2 ft x 2 ft Nominal Size												
19 W	80	Yes	2 Lamp T8	No Sensor	Unrated	LVR22	2,000 lm	105 lm/W	**48TK59**	2,000 lm	105 lm/W	**48TK60**
2 ft x 4 ft Nominal Size												
39.5 W	80	Yes	2 Lamp T8	No Sensor	Unrated	LVR24	4,000 lm	101 lm/W	**48TK61**	4,000 lm	101 lm/W	**48TK62**
Columbia Lighting												
2 ft x 2 ft Nominal Size												
29 W	83	Yes	T8 U-Bend	No Sensor	Unrated	SLK22	—	—	—	3,400 lm	120 lm/W	**488U91**
2 ft x 4 ft Nominal Size												
39 W	80	Yes	3 Lamp T8	No Sensor	DLC	SLK24	—	—	—	4,990 lm	128 lm/W	**488U92**
Lithonia Lighting												
2 ft x 2 ft Nominal Size												
29 W	82	Yes	T8 U-Bend	No Sensor	DLC	2VTL2RT	3,711 lm	126 lm/W	**46F516**	3,821 lm	129 lm/W	**46F521**
29 W	82	Yes	T8 U-Bend	No Sensor	DLC	2VTL2R	3,711 lm	126 lm/W	**46F517**	3,821 lm	129 lm/W	**46F519**
2 ft x 4 ft Nominal Size												
39.1 W	82	Yes	3 Lamp T8	No Sensor	DLC	2VTL4R	5,090 lm	130 lm/W	**46F514**	5,209 lm	133 lm/W	**46F518**
39.1 W	82	Yes	3 Lamp T8	No Sensor	DLC	2VTL4RT	5,090 lm	130 lm/W	**46F515**	5,209 lm	133 lm/W	**46F520**
Philips												
2 ft x 2 ft Nominal Size												
20 W	80	Yes	3 Lamp T8	Evo Kit UNV 20W	DLC 5.0 Premium	Evokit HE	—	—	—	3,100 lm	155 lm/W	**60YP03**
20 W	80	Yes	3 Lamp T8	Integral Sensor with Smart Driver	DLC 5.0 Premium	Evokit HE	3,100 lm	152 lm/W	**60YP06**	3,100 lm	155 lm/W	**60YP07**
21 W	80	Yes	3 Lamp T8	Evo Kit UNV 21W	DLC 5.0 Premium	Evokit HE	3,100 lm	148 lm/W	**60YP02**	—	—	—
22 W	80	Yes	3 Lamp T8	Evo Kit UNV 22W	DLC 5.0 Premium	Evokit	3,100 lm	135 lm/W	**60YN97**	3,100 lm	141 lm/W	**60YN98**
23 W	80	Yes	3 Lamp T8	—	DLC QPL	Evokit Panel	—	—	—	3,000 lm	130 lm/W	**60YN95**
29 W	80	Yes	2 Lamp T8	No Sensor	DLC Premium	EvoKit	—	—	—	3,200 lm	105 lm/W	**54ZE76**
2 ft x 4 ft Nominal Size												
19 W	80	Yes	3 Lamp T8	Not Applicable	DLC Premium	Evokit	3,000 lm	158 lm/W	**787GM2**	—	—	—
25 W	80	Yes	3 Lamp T8	Not Applicable	DLC Premium	Evokit	3,600 lm	144 lm/W	**787GM3**	3,600 lm	144 lm/W	**787GM4**
27 W	80	Yes	3 Lamp T8	Evo Kit UNV 26W	DLC 5.0 Premium	Evokit HE	4,200 lm	158 lm/W	**60YP04**	4,200 lm	162 lm/W	**60YP05**
27 W	80	Yes	3 Lamp T8	Integral Sensor with Smart Driver	DLC 5.0 Premium	Evokit HE	4,200 lm	159 lm/W	**60YP08**	4,200 lm	162 lm/W	**60YP09**
28 W	80	Yes	3 Lamp T8	Evo Kit UNV 28W	DLC 5.0 Premium	Evokit	4,200 lm	145 lm/W	**60YN99**	4,200 lm	150 lm/W	**60YP01**
30 W	80	Yes	4 Lamp T8	No Sensor	DLC Premium	EvoKit	—	—	—	4,200 lm	139 lm/W	**54ZE77**
33 W	80	Yes	3 Lamp T8	—	DLC QPL	Evokit Panel	—	—	—	4,300 lm	130 lm/W	**60YN96**

61HR07

488U70

LED Strip Light Retrofit Kits

KEYSTONE | Columbia LIGHTING

- 120/277V AC
- Dimmable

Kits convert fluorescent strip lights to LED technology to reduce operating costs. They use even less energy than fluorescent fixtures fitted with plug-and-play LED light bulbs, and they have built-in LED arrays so there are no bulbs to install or replace. The kits allow the base of the existing fixture to remain in place while replacing the side framing, interior components, and bulb with an LED strip.

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	LED Replacement For	Lighting Certification	Series	Brand	Item No.
48 in Length									
32 W	4000K	4,350 lm	130 lm/W, 136 lm/W	80	32W	DLC Premium	800 Series	Keystone Technologies	**61HR07**
33 W	3500K	4,132 lm	132 lm/W	80	2 Lamp T8	DLC 5.0	LSRK	Columbia Lighting	**56FH65**
33 W	4000K	4,196 lm	132 lm/W	80	2 Lamp T8	DLC 5.0	LSRK	Columbia Lighting	**56FH66**
38.1 W	4000K	4,778 lm	125.3 lm/W	80	2 Lamp T8	DLC	LSRK	Columbia Lighting	**488U70**
96 in Length									
55 W	4000K	7,370 lm	130 lm/W, 134 lm/W	80	55W	DLC Premium	800 Series	Keystone Technologies	**61HR09**
76.2 W	4000K	9,500 lm	125.3 lm/W	80	4 Lamp T8	Unrated	LSRK	Columbia Lighting	**488U71**

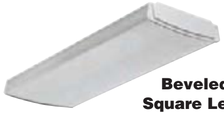
For information on Lighting Certification, see page 422.

LITHONIA LIGHTING · PHILIPS Day-Brite · Columbia LIGHTING · RCA

LED Wraparound Lights

Lights have a lens that extends up the sides of the fixture to spread light over a wider area than recessed troffers and panels. Also called wraps, these linear surface-mount fixtures uniformly disperse large amounts of light for general lighting in offices, retail spaces, and healthcare settings. They are typically installed on drywall ceilings. LED lights use significantly less energy than fluorescent lights and have built-in LED arrays so there are no light bulbs to install or replace.

Architectural Lens
36MG19



Beveled Square Lens
No 48H443

Curved Lens
31A149

Flat Lens
32WU70

Straight Square Lens
444A33

Round Lens
656P37

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Voltage	Color Index	Sensor Type	Dimmable	Linkable	Emergency Battery Backup	Overall Width	Overall Height	Lighting Certification	Series	Brand	Item No.
2 ft. LED Wraparound Lights															
Architectural Lens															
7.5 W	3500K	809 lm	107.8 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	Unrated	WL2	Lithonia Lighting	**36MG19**
	4000K	848 lm	113.1 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	Unrated	WL2	Lithonia Lighting	**36MG20**
12.2 W	3500K	1,249 lm	102.3 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	Unrated	WL2	Lithonia Lighting	**31A151**
	3500K	1,249 lm	102.3 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	Unrated	WL2	Lithonia Lighting	**36MG21**
	4000K	1,311 lm	107.5 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	Unrated	WL2	Lithonia Lighting	**36MG22**
17.5 W	4000K	1,889 lm	107.8 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	Unrated	WL2	Lithonia Lighting	**36MG23**
29 W	4000K	1,400 lm	107 lm/W	120V	85	No Sensor	No	No	No	5 ½ in	2 ⅝ in	ENERGY STAR	FMLWL	Lithonia Lighting	**36VU47**
Beveled Square Lens															
17 W	3500K	2,014 lm	119 lm/W	120/277V	82	No Sensor	Yes	No	No	10 in	2 ¾ in	DLC 5.0	LBL2	Lithonia Lighting	**48H442**
	4000K	2,046 lm	121 lm/W	120/277V	82	No Sensor	Yes	No	No	10 in	2 ¾ in	DLC 5.0	LBL2	Lithonia Lighting	**48H443**
47 W	3500K	4,000 lm	87 lm/W	120/277V	80	No Sensor	Yes	Yes	No	8 ⅝ in	2 ¾ in	DLC 5.0	OWL	Daybrite	**60VD50**
	4000K	4,000 lm	87 lm/W	120/277V	80	No Sensor	Yes	Yes	No	8 ⅝ in	2 ¾ in	DLC 5.0	OWL	Daybrite	**60VD51**
Curved Lens															
20 W	3500K	2,058 lm	102.8 lm/W	120/277V	82	No Sensor	Yes	No	No	10 ⅛ in	3 ⅞ in	Unrated	STL2	Lithonia Lighting	**31A149**
Flat Lens															
24 W	3500K	2,644 lm	110 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 5.0	LAW	Columbia Lighting	**32WU70**
28 W	3500K	3,295 lm	116 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 5.0	LAW	Columbia Lighting	**53WA56**
Straight Square Lens															
17 W	3500K	1,937 lm	115 lm/W	120/277V	82	No Sensor	Yes	No	No	8 ⅝ in	2 ⅝ in	DLC 5.0	SBL2	Lithonia Lighting	**444A34**
	4000K	1,967 lm	116 lm/W	120/277V	82	No Sensor	Yes	No	No	8 ⅝ in	2 ⅝ in	DLC 5.0	SBL2	Lithonia Lighting	**444A33**
4 ft. LED Wraparound Lights															
Architectural Lens															
18.7 W	3500K	2,152 lm	115 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	DLC 5.0	WL4	Lithonia Lighting	**31A153**
	3500K	2,152 lm	115 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	DLC 5.0	WL4	Lithonia Lighting	**36MG15**
	3500K	2,152 lm	115 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	DLC 5.0	WL4	Lithonia Lighting	**36MG28**
	4000K	2,255 lm	121 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	DLC 5.0	WL4	Lithonia Lighting	**36MG16**
	4000K	2,255 lm	121 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	DLC 5.0	WL4	Lithonia Lighting	**36MG26**
27 W	5000K	3,300 lm	122.2 lm/W	120/277V	85	No Sensor	Yes	No	No	3 ⅛ in	2 ½ in	DLC 5.0	ST	RCA	**53UE20**
28.2 W	3500K	3,095 lm	110 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	DLC 5.0	WL4	Lithonia Lighting	**36MG18**
	3500K	3,095 lm	110 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	DLC 5.0	WL4	Lithonia Lighting	**36MG29**
	4000K	3,251 lm	115 lm/W	120/277V	82	No Sensor	Yes	No	No	4 ¾ in	3 ⅞ in	DLC 5.0	WL4	Lithonia Lighting	**36MG17**
	4000K	3,251 lm	115 lm/W	120/277V	82	Occupancy Sensor	Yes	No	No	4 ¾ in	3 ¾ in	DLC 5.0	WL4	Lithonia Lighting	**36MG27**
42 W	4000K	2,900 lm	111 lm/W	120V	85	No Sensor	No	No	No	5 ½ in	2 ⅝ in	ENERGY STAR	FMLWL	Lithonia Lighting	**36VU48**
	5000K	5,200 lm	123.7 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	Unrated	SD	RCA	**53UE22**
74 W	5000K	8,880 lm	120 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	DLC 5.0	SHL	RCA	**53UE26**
120 W	5000K	15,600 lm	130 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	DLC 5.0	SH	RCA	**53UE24**
Beveled Square Lens															
32 W	3000K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	No	4 ⅛ in	3 ⅜ in	Unrated	FSWEZ	Daybrite	**60VD28**
	3000K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	Yes	4 ⅛ in	3 ⅜ in	—	FSWEZ	Daybrite	**60VD38**
	3500K	4,188 lm	130.8 lm/W	120/277V	82	No Sensor	Yes	No	No	10 in	2 ¾ in	DLC 5.0 Premium	LBL4	Lithonia Lighting	**48H444**
	3500K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	No	4 ⅛ in	3 ⅜ in	Unrated	FSWEZ	Daybrite	**60VD30**
	3500K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	Yes	4 ⅛ in	3 ⅜ in	—	FSWEZ	Daybrite	**60VD40**
	4000K	4,253 lm	122 lm/W	120/277V	82	No Sensor	Yes	No	No	10 in	2 ¾ in	DLC 5.0 Premium	LBL4	Lithonia Lighting	**48H445**
	4000K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	No	4 ⅛ in	3 ⅜ in	Unrated	FSWEZ	Daybrite	**60VD29**
	4000K	4,000 lm	125 lm/W	120/277V	80	No Sensor	No	Yes	Yes	4 ⅛ in	3 ⅜ in	—	FSWEZ	Daybrite	**60VD39**
45 W	4000K	5,500 lm	122.2 lm/W	120/277V	80	No Sensor	Yes	Yes	No	4 ¼ in	3 ⅛ in	DLC 5.0	FSI	Daybrite	**60VD26**
Curved Lens															
25 W	4000K	3,114 lm	125 lm/W	120 to 277V AC	82	No Sensor	Yes	No	No	5 ½ in	3 ½ in	DLC 5.0	BLWP4	Lithonia Lighting	**61DF36**
45.2 W	3500K	4,850 lm	107.2 lm/W	120/277V	82	No Sensor	Yes	No	No	10 ⅛ in	3 ⅞ in	DLC 4.4	STL4	Lithonia Lighting	**31A150**
49 W	4000K	6,373 lm	129 lm/W	120 to 277V AC	82	No Sensor	Yes	No	No	5 ½ in	3 ½ in	DLC 5.0	BLWP4	Lithonia Lighting	**61DF35**
Flat Lens															
37 W	4000K	4,477 lm	120 lm/W	120/277V	80	No Sensor	Yes	No	No	24 in	2 ⅞ in	DLC 5.0	LAW	Columbia Lighting	**53WA59**
38 W	3500K, 4000K, 5000K	2,540 lm, 4,040 lm, 4,800 lm	126 lm/W, 127 lm/W	120 to 240V AC	80	Circuit Non-Integral Sensor	Yes	No	No	8 in	2 ½ in	cULus, FCC	LWS	Albeo	**785RR7**
	3500K, 4000K, 5000K	2,880 lm, 4,470 lm, 5,290 lm	139 lm/W, 140 lm/W, 144 lm/W	120 to 240V AC	80	Circuit Non-Integral Sensor	Yes	No	No	13 in	2 ½ in	cULus, FCC	LWS	Albeo	**785RR8**
43 W	3500K	4,908 lm	115 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 5.0	LAW	Columbia Lighting	**32WU71**
	4000K	4,984 lm	117 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 5.0	LAW	Columbia Lighting	**53WA60**
51 W	3500K	5,627 lm	111 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 4.4	LAW	Columbia Lighting	**53WA58**
	4000K	5,715 lm	112 lm/W	120/277V	80	No Sensor	Yes	No	No	6 ¾ in	4 ⅜ in	DLC 5.0	LAW	Columbia Lighting	**53WA61**
Round Lens															
28.7 W	4000K	3,710 lm	100 lm/W	120/277V	80	No Sensor	Yes	No	No	⅝ in	⅛ in	DLC 5.0	Revalume	Columbia Lighting	**56FH67**
34 W	4000K	4,000 lm	117.6 lm/W	120/277V	80	Occupancy Sensor	Yes	Yes	No	7 in	2 ⅞ in	DLC 5.0	NWL	Daybrite	**60VD52**
34.3 W	4000K	4,305 lm	100 lm/W	120/277V	80	No Sensor	Yes	No	No	8 ½ in	3 ⅝ in	DLC 5.0	Revalume	Columbia Lighting	**656P37**
40.2 W	3500K	4,872 lm	121 lm/W	120/277V	80	No Sensor	Yes	No	No	⅝ in	⅛ in	Unrated	Revalume	Columbia Lighting	**656P38**
45 W	4000K	5,500 lm	122.2 lm/W	120/277V	80	No Sensor	Yes	Yes	Yes	4 ¼ in	3 ⅛ in	DLC 5.0	FSI	Daybrite	**60VD41**
47.7 W	4000K	5,750 lm	100 lm/W	120/277V	80	No Sensor	Yes	No	No	⅝ in	⅛ in	DLC 5.0	Revalume	Columbia Lighting	**656P40**
Straight Square Lens															
32 W	3500K	3,933 lm	121 lm/W	120/277V	82	No Sensor	Yes	No	No	8 ⅝ in	2 ⅝ in	DLC 5.0	SBL4	Lithonia Lighting	**444A32**
	4000K	3,994 lm	124.7 lm/W	120/277V	82	No Sensor	Yes	No	No	8 ⅝ in	2 ⅝ in	DLC 5.0	SBL4	Lithonia Lighting	**44ZU67**
36.7 W	4000K	4,584 lm	124 lm/W	120/277V	80	No Sensor	Yes	No	No	—	1 ¾ in	DLC 4.4	CWP	Columbia Lighting	**488U56**
8 ft. LED Wraparound Lights															
Architectural Lens															
56 W	5000K	6,750 lm	120.7 lm/W	120/277V	85	Smart Control Sensor	Yes	No	No	3 ⅛ in	2 ½ in	DLC 5.0	ST	RCA	**53UE21**
84 W	5000K	10,400 lm	124 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	Unrated	SD	RCA	**53UE23**
100 W	5000K	12,000 lm	120 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	DLC 5.0	SHL	RCA	**53UE27**
145 W	5000K	17,835 lm	123 lm/W	120/277V	80	No Sensor	Yes	No	No	5 ⅜ in	3 in	DLC 5.0	SH	RCA	**53UE25**
Beveled Square Lens															
90 W	4000K	11,000 lm	122.2 lm/W	120/277V	80	No Sensor	Yes	Yes	No	4 ¼ in	3 ⅛ in	DLC 5.0	FSI	Daybrite	**60VD27**
	4000K	11,000 lm	122.2 lm/W	120/277V	80	No Sensor	Yes	Yes	Yes	4 ¼ in	3 ⅛ in	DLC 5.0	FSI	Daybrite	**60VD42**

For information on Lighting Certification, see page 422.

Curved Lens
49EN83

Flat Lens
454X20

Round Lens
454X28

Tube-Style Lens
405D77

LED Strip Lights

Linear surface-mount fixtures have a housing that is slightly larger than the light bulb it holds. These LED lights use significantly less energy than fluorescent lights and have built-in LED arrays so there are no light bulbs to install or replace. Depending on their size and lens style, they are used for general lighting in applications ranging from workshops, access corridors, and back-of-house areas to retail spaces, hospitality settings, and manufacturing areas.

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	Emergency Battery Backup	Dimmable	Linkable	Lighting Certification	Series	Brand	Item No.
2 ft. LED Strip Lights											
Curved Lens											
9.1 W	3500K, 4000K, 5000K	900 lm	8.5 lm/W	80	No	Yes	Yes	DLC 5.1	ECOST	ETI	**792KK8**
19 W	3500K	2,470 lm	130 lm/W	82	No	Yes	No	DLC Listed	Micro Strip	Keystone Technologies	**61HR02**
20 W	3500K, 4000K, 5000K	1,200 lm, 1,800 lm, 2,400 lm	115 lm/W	80	No	Yes	No	DLC	SDS Selectable	Daybrite	**786ZK6**
Flat Lens											
29 W	4000K	3,496 lm	121 lm/W	80	No	Yes	No	DLC 5.0	MPS	Columbia Lighting	**53VT87**
Lensless											
25 W	4000K	3,565 lm	120 lm/W	80	No	Yes	No	DLC 5.0	ZL1N	Lithonia Lighting	**26X695**
29 W	3500K	3,587 lm	124 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU13**
	4000K	3,632 lm	125 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU14**
Tube-Style Lens											
17 W	4000K	1,800 lm	106 lm/W	80	No	No	No	DLC	ST	ETI	**335C31**
20 W	4000K	1,800 lm	90 lm/W	80	No	No	Yes	ENERGY STAR	No Series	LumaPro	**400H12**
22 W	3500K	2,742 lm	124.6 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D86**
	4000K	2,785 lm	126.6 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D87**
	5000K	2,887 lm	131.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D88**
36 W	3500K	4,190 lm	116.3 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D89**
	4000K	4,255 lm	118.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D90**
	5000K	4,412 lm	122.6 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D91**
4 ft. LED Strip Lights											
Curved Lens											
17.2 W	3500K, 4000K, 5000K	1,800 lm	17 lm/W	80	No	Yes	Yes	DLC 5.1	ECOST	ETI	**792KK9**
18 W	3500K	2,290 lm	127.2 lm/W	82	Yes	Yes	No	DLC Listed	Micro Strip	Keystone Technologies	**61HR03**
20 W	4000K	1,800 lm	90 lm/W	80	No	No	Yes	ENERGY STAR	No Series	LumaPro	**400H15**
	4000K	2,606 lm	130 lm/W	80	No	Yes	Yes	DLC 5.0 Premium	MPS	Columbia Lighting	**53VT92**
	5000K	2,606 lm	130 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VT97**
28 W	3500K	3,584 lm	128 lm/W	82	Yes	Yes	No	DLC Listed	Micro Strip	Keystone Technologies	**61HR04**
32 W	3000K	4,000 lm	118 lm/W	80	Yes	No	Yes	—	FSSEZ	Daybrite	**60VD43**
	3000K	4,000 lm	133 lm/W	80	No	No	No	Unrated	FluxStream	Philips	**210L67**
	3500K	4,000 lm	125 lm/W	80	Yes	No	Yes	—	FSSEZ	Daybrite	**60VD45**
	3500K	4,000 lm	133 lm/W	80	No	No	No	DLC	FluxStream	Philips	**210L68**
	4000K	4,000 lm	125 lm/W	80	Yes	No	Yes	DLC 5.0	FSSEZ	Daybrite	**60VD44**
	4000K	4,000 lm	133 lm/W	80	No	No	No	DLC	FluxStream	Philips	**210L69**
38 W	4000K	4,900 lm	131.5 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN84**
	5000K	4,900 lm	131.5 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN85**
40 W	3500K, 4000K, 5000K	2,430 lm, 3,640 lm, 4,850 lm	120 lm/W	80	No	Yes	No	DLC	SDS Selectable	Daybrite	**786ZK7**
40.1 W	3500K	4,557 lm	114 lm/W	80	No	Yes	Yes	DLC 5.0	MPS	Columbia Lighting	**656N90**
	4000K	4,615 lm	115 lm/W	80	No	Yes	Yes	DLC 5.0	MPS	Columbia Lighting	**656N91**
	5000K	4,769 lm	119 lm/W	80	No	Yes	Yes	DLC 5.0	MPS	Columbia Lighting	**656N92**
41 W	4000K	3,000 lm	73.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN82**
	4000K	7,700 lm	195.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN88**
	5000K	3,000 lm	73.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN83**
	5000K	7,700 lm	195.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN89**
44 W	3500K	5,632 lm	128 lm/W	82	Yes	Yes	No	DLC Listed	Micro Strip	Keystone Technologies	**61HR05**
49.5 W	4000K	5,833 lm	118 lm/W	80	No	Yes	No	DLC 5.0	MPS	Columbia Lighting	**53VT96**
	5000K	5,833 lm	118 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU02**
111 W	4000K	3,000 lm	54 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN86**
	5000K	3,000 lm	54 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN87**
Flat Lens											
20 W	3500K	2,574 lm	129 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VT88**
	4000K	2,606 lm	130 lm/W	80	Yes	Yes	No	Unrated	MPS	Columbia Lighting	**53VT93**
20.2 W	4000K	2,812 lm	138 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X20**
	5000K	2,879 lm	141.2 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X21**
34.7 W	4000K	4,701 lm	135.1 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X22**
	5000K	4,813 lm	138 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X23**
35.3 W	3500K	4,000 lm	121.8 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JY8**
	4000K	4,000 lm	121.8 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JY9**
	5000K	4,000 lm	121.8 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JZ0**
40.1 W	4000K	4,614 lm	115 lm/W	80	Yes	Yes	No	Unrated	MPS	Columbia Lighting	**53VT95**
Lensless											
40.1 W	3500K	4,794 lm	120 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU15**
	4000K	4,952 lm	123 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU17**
49.5 W	3500K	6,061 lm	122 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU16**
	4000K	6,261 lm	126 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU18**
52 W	4000K	7,345 lm	110 lm/W	80	No	Yes	No	DLC 5.0	ZL1N	Lithonia Lighting	**26X694**
Round Lens											
20.2 W	4000K	2,895 lm	142 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X28**
	5000K	2,963 lm	145.8 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X29**
34.7 W	4000K	4,839 lm	139 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X30**
	5000K	4,954 lm	142 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X31**

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CONTINUED

LED Strip Lights

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	Emergency Battery Backup	Dimmable	Linkable	Lighting Certification	Series	Brand	Item No.
Tube-Style Lens											
25 W	4000K	3,565 lm	120 lm/W	80	No	Yes	No	DLC 5.0	ZL1N	Lithonia Lighting	**36UX13**
30 W	3500K	3,966 lm	132.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D77**
	4000K	4,028 lm	134.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D78**
	5000K	4,176 lm	139.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D79**
34 W	4000K	4,964 lm	110 lm/W	80	No	Yes	No	DLC 5.0	ZL1N	Lithonia Lighting	**36UX12**
	4000K	3,600 lm	106 lm/W	80	No	No	No	DLC	ST	ETI	**335C32**
38 W	4000K	4,900 lm	131.5 lm/W	80	No	Yes	Yes	DLC 5.0	ALC6	Albeo	**48TL79**
	5000K	4,900 lm	131.5 lm/W	70	No	Yes	Yes	DLC 5.0	ALC6	Albeo	**48TL80**
41 W	3500K	5,456 lm	133.1 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D80**
	4000K	5,541 lm	135.1 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D81**
	5000K	5,745 lm	140.1 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D82**
59 W	3500K	7,480 lm	126.7 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D83**
	4000K	7,596 lm	128.7 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D84**
	5000K	7,876 lm	133.5 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D85**
111 W	5000K	7,800 lm	72 lm/W	70	No	Yes	Yes	DLC 5.0	ALC6	Albeo	**48TL82**
8 ft. LED Strip Lights											
Curved Lens											
38 W	4000K	9,800 lm	263.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN90**
	5000K	9,800 lm	263.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN91**
40 W	5000K	5,400 lm	142 lm/W	80	No	Yes	Yes	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU09**
54 W	3500K	7,100 lm	131.5 lm/W	82	Yes	Yes	No	DLC Listed	Micro Strip	Keystone Technologies	**61HR06**
76 W	5000K	9,500 lm	124 lm/W	80	No	Yes	No	DLC 5.0	MPS	Columbia Lighting	**53VU10**
80 W	4000K	9,231 lm	115 lm/W	80	No	Yes	Yes	DLC 5.0	MPS	Columbia Lighting	**656N93**
99 W	4000K	11,667 lm	118 lm/W	80	No	Yes	No	DLC 5.0	MPS	Columbia Lighting	**53VU08**
	5000K	12,000 lm	128 lm/W	80	No	Yes	No	DLC 5.0	MPS	Columbia Lighting	**53VU12**
111 W	4000K	15,600 lm	144.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN92**
	5000K	15,600 lm	144.1 lm/W	80	No	Yes	No	DLC 5.0	ALV2	Albeo	**49EN93**
Flat Lens											
38.2 W	4000K	5,535 lm	145.8 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X24**
	5000K	5,667 lm	148 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X25**
40 W	4000K	5,213 lm	130 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU05**
66.5 W	4000K	9,137 lm	137 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X26**
	5000K	9,354 lm	140.1 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X27**
72 W	3500K	8,000 lm	119.3 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JZ1**
	4000K	8,000 lm	119.3 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JZ2**
	5000K	8,000 lm	119.3 lm/W	80	No	Yes	No	DLC Qualified	CSS	Lithonia Lighting	**793JZ3**
80.2 W	3500K	9,111 lm	114 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU03**
Lensless											
80.2 W	4000K	9,587 lm	136 lm/W	80	No	Yes	No	DLC 5.0 Premium	MPS	Columbia Lighting	**53VU19**
104 W	4000K	14,001 lm	134 lm/W	80	No	Yes	No	DLC 5.0	ZL1N	Lithonia Lighting	**38GT87**
Round Lens											
38.2 W	4000K	5,697 lm	149.2 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X32**
	5000K	5,832 lm	150.3 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X33**
66.5 W	4000K	9,404 lm	141.2 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X34**
	5000K	9,627 lm	143.1 lm/W	80	No	Yes	No	DLC 5.0	CLX	Lithonia Lighting	**454X35**
Tube-Style Lens											
60 W	4000K	8,386 lm	139.7 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D92**
81 W	4000K	11,442 lm	141.2 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D94**
111 W	4000K	15,600 lm	144.1 lm/W	70	No	Yes	Yes	DLC 5.0	ALC6	Albeo	**48TL87**
	5000K	15,600 lm	144.1 lm/W	70	No	Yes	Yes	DLC 5.0	ALC6	Albeo	**48TL88**
121 W	4000K	15,986 lm	132.1 lm/W	80	No	Yes	No	DLC 5.0	ZL1D	Lithonia Lighting	**405D93**

Linear LED Task Lighting

- 120/277V AC
- Dimmable

Light bars are easily installed with included magnetic clips for under cabinet, work area, display, or task lighting. Offer 3 wattages and 3 color temperatures in a single unit, except base model 61HP81. Suitable for dry or damp locations.

ACCESSORIES

Connectors and cables make it easy to connect power and control wires from one light bar to another. Multiple bars can be connected on one incoming power cable. DIM units link all connections. NODIM units link only AC power. **Emergency battery backup** allows for continuous lighting for a minimum of 90 min. during power outage or emergency situation. **Occupancy sensor** is a high frequency motion/daylight sensor that plugs directly into light bar. **Space connector** can be used when retrofitting fixtures, to bring the length of the LED bar to a standard dimension. **End caps** prevent tampering and create a finished look.

61HP75

Max. Fixture Wattage	Color Index	Dimmable	Emergency Battery Backup	Lighting Certification	Nom. Size	Overall Width	Overall Height	2700K, 3000K, 3500K Lumens	2700K, 3000K, 3500K Item No.	3500K, 4000K, 5000K Lumens	3500K, 4000K, 5000K Item No.	4000K Lumens	4000K Item No.
LED Light Bar Kit													
6 W, 9 W, 12 W	80	Yes	No	DLC Premium	2 ft	1 ¼ in	1 ¼ in	700 lm	**61HP78**	770 lm	**61HP75**	—	—
10 W, 12 W, 15 W	80	Yes	No	DLC Premium	3 ft	1 ¼ in	1 ¼ in	1,268 lm	**61HP79**	1,434 lm	**61HP76**	—	—
10 W, 15 W, 25 W	80	Yes	No	DLC Premium	4 ft	1 ¼ in	1 ¼ in	1,265 lm	**61HP80**	2,130 lm	**61HP77**	—	—
15 W	80	Yes	No	DLC Premium	4 ft	1 ¼ in	1 ¼ in	—	—	—	—	1,996 lm	**61HP81**

Item	Kit Contents	Mfr. Model	Item No.
Cords & Wiring			
LED Light Bar Dimming Connector	(10) Seamless Connectors-DIM	RP-LBI-SSC-DIM-10P	**61HP83**
LED Light Bar Emergency Battery Backup	—	RP-LBI-EMG1-25W	**61HP92**
LED Light Bar No-Dimming Connector	(10) Seamless Connectors-NODIM	RP-LBI-SSC-NODIM-10P	**61HP84**
LED Light Bar Occupancy Sensor	(1) 12 in Linking Cable-DIM, (1) OC2 Sensor, (1) Surface Mount Magnetic Clip, (2) Seamless Connectors-DIM	RP-LBI-OC2-A	**61HP91**
LED Light Bar Power Cable	(10) 3 ft Incoming Power Cables (bar input side), (10) Abrasion protection grommets, (10) Service Disconnects	RP-LBI-G1-IP-3F-DIM-10P	**61HP82**
LED Light Bar Space Connector	(2) Seamless Connectors-DIM	RP-LBI-SRC-4.7IN	**61HP85**
Clips, Chains & Hangers			
LED Light Bar T-Bar Bracket	(10) T-Bar Clips	RP-LBI-T1516-10P	**61HP86**
Cords & Wiring			
LED Light Bar Troffer Linking Cable	(10) 6 in Linking Cables-DIM	RP-LBI-LC-6IN-DIM-10P	**61HP87**
	(10) 12 in Linking Cables-DIM	RP-LBI-LC-12IN-DIM-10P	**61HP88**
	(10) 18 in Linking Cables-DIM	RP-LBI-LC-18IN-DIM-10P	**61HP89**
	(10) 24 in Linking Cables-DIM	RP-LBI-LC-24IN-DIM-10P	**61HP90**
Clips, Chains & Hangers			
Surface Mount Fixture End Cap	—	RPT-P-LIVC-G2-ENDCAP-SECURITY1	**61HP93**
	—	RPT-P-LIVC-G2-ENDCAP-MODERN1	**61HP94**
	—	RPT-P-LIVC-G2-ENDCAP-MODERN2	**61HP95**

For information on Lighting Certification, see page 422.

Low Profile
16U234

Side Mounted
2UWT1

Standard
3YA20

Fluorescent Strip Lights

- Electronic ballast
- Non-dimmable
- Lamps not included

Linear surface-mount fixtures have a housing that's slightly larger than the light bulbs it holds. They have no lens or cover, so they are well suited for supplying direct, general light in workshops, access corridors, and other spaces where the exposed bulbs are unlikely to be hit. They are typically mounted to ceilings but are sometimes used with chains for suspension mounting. They use linear light bulbs in a size that matches the fixture and with a base type that matches the fixture ballast.

For Bulb Type	Max. Fixture Wattage	Lamp Qty.	Voltage	Height	Width	Series	Brand	Item No.
2 ft Nominal Length								
Low Profile								
T8	34 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**16U234**
Side Mounted								
F17T8	34 W	2	120V	1 ⅞ in	5 ⅜ in	—	LumaPro	**2UWT1**
Standard								
T8	34 W	2	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**4MRU8**
3 ft Nominal Length								
Low Profile								
T8	25 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**2MZG6**
Standard								
T8	50 W	2	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**4MRU9**
4 ft Nominal Length								
Low Profile								
T5	28 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRT9**
	56 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRU1**
T5HO	54 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRT5**
	108 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRT6**
T8	32 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**3XY81**
	64 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**16U233**
Side Mounted								
F32T8	30 W	1	120/277V	1 ⅞ in	4 ¾ in	—	LumaPro	**2UWT7**
	58 W	2	120/277V	1 ⅞ in	5 in	—	LumaPro	**2UWT8**
Standard								
T5HO	54 W	1	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRR9**
	108 W	2	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRR7**
T8	64 W	2	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**3YA20**
T12 HO	120 W	2	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRT3**
8 ft Nominal Length								
Low Profile								
T5HO	54 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRT7**
	108 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**4MRT8**
T8	32 W	1	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**3XY88**
	64 W	2	120/277V	1 ½ in	2 ⅛ in	Z	Lithonia Lighting	**16U235**
Standard								
T5HO	108 W	2	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRR8**
T8	32 W	1	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**40L068**
	59 W	1	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**5YA63**
	64 W	4	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**3XY85**
	64 W	4	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**6MGG1**
	118 W	2	120/277V	2 in	4 ⅜ in	C	Lithonia Lighting	**3YA21**
	118 W	2	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**5YA65**
T12 HO	110 W	1	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRT2**
	220 W	2	120/277V	3 in	4 ⅜ in	UNS	Lithonia Lighting	**4MRT4**

2YMY2

Fluorescent Wall-Mounted Lights

- Electronic ballast
- Non-dimmable
- Lamps not included

Wall-mounted light fixtures supply light in areas such as hallways, lobbies, and restrooms. They supplement general lighting in dim corners of large areas or provide primary lighting for small spaces. They use linear light bulbs in a size that matches the fixture and with a base type that matches the fixture ballast. The fixtures accept fluorescent bulbs and some types of LED bulbs.

For Bulb Type	Max. Fixture Wattage	Lamp Qty.	Voltage	H	Width	Series	Brand	Item No.
2 ft Nominal Length								
T8	17 W	1	120V	4½"	4 ⅝ in	WC	Lithonia Lighting	**5YA83**
	34 W	2	120/277V	4½"	4 ⅝ in	WC	Lithonia Lighting	**2YMY2**
	34 W	2	120V	4½"	4 ⅝ in	WC	Lithonia Lighting	**5YA85**
4 ft Nominal Length								
T5HO	54 W	1	120/277V	4⅝"	4 ⅝ in	WC	Lithonia Lighting	**4MZX3**
T8	32 W	1	120/277V	4½"	4 ⅝ in	WC	Lithonia Lighting	**3XY92**
	32 W	1	120V	4½"	4 ⅝ in	WC	Lithonia Lighting	**5YA81**
	64 W	2	120/277V	3¼"	7 ¼ in	WP	Lithonia Lighting	**3XY76**
	64 W	2	120/277V	5 3/16"	7 ⅛ in	W	Lithonia Lighting	**3XY91**
	64 W	2	120/277V	4½"	4 ⅝ in	WC	Lithonia Lighting	**3XY93**
	64 W	2	120V	4½"	4 ⅝ in	WC	Lithonia Lighting	**5YA82**
	64 W	2	120V	3¼"	7 ¼ in	WP	Lithonia Lighting	**5YA87**

Beveled Square
1THP4

Straight Square
6CGC0

Fluorescent Wraparound Lights

- Electronic ballast
- Non-dimmable
- Lamps not included

Lights have a lens that extends up the sides of the fixture to spread light over a wider area than recessed troffers and panels. Also called wraps, these linear surface-mount fixtures uniformly disperse large amounts of light for general lighting in offices, retail spaces, and healthcare settings. They are typically installed on drywall ceilings. They use linear light bulbs in a size that matches the fixture and with a base type that matches the fixture ballast. The fixtures accept fluorescent bulbs and some types of LED bulbs.

For Bulb Type	Max. Fixture Wattage	Lamp Qty.	Voltage	H	Width	Series	Item No.
2 ft Nominal Length							
Beveled Square							
T8	34 W	2	120/277V	3"	10 in	LB	**1THP5**
	68 W	4	120/277V	3"	15 ½ in	LB	**1THP4**
Straight Square							
T8	17 W	2	120/277V	2⅞"	9 ⅝ in	SB	**6CGC0**
4 ft Nominal Length							
Beveled Square							
T5	56 W	2	120/277V	3"	10 in	LB	**4VDE9**
	84 W	3	120/277V	3"	15 ⅜ in	LB	**4VDF1**
T8	64 W	2	120/277V	3"	10 in	LB	**3XY66**
	96 W	3	120/277V	3"	15 ⅜ in	LB	**3XY74**
	128 W	4	120/277V	3"	15 ⅜ in	LB	**3XY75**
Straight Square							
T8	32 W	2	120/277V	2⅞"	13 ¾ in	SB	**3XY82**
	32 W	4	120/277V	2⅞"	13 ¾ in	SB	**3XY83**
	64 W	2	120V	2¼"	5 in	RB	**2PFV4**

56FH55

Columbia LIGHTING

LED Wall-Mounted Lights

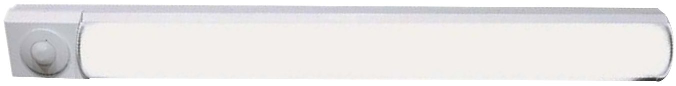
- 120/277V AC
- Dimmable

These lights attach to a wall and shine light down onto floors and surfaces. They are commonly installed over sinks, in sitting rooms, and along corridors. LED lights use significantly less energy than fluorescent lights and have built-in LED arrays so there are no light bulbs to install or replace.

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	Overall Width	Linkable	Series	Switch Mounted Right Item No.	Switch Mounted Left Item No.	Pull Switch Item No.
2 ft Nominal Length										
25 W	4000K	1,865 lm	75 lm/W	80	2 in	No	CWM	**56FH55**	**56FH56**	—
36 W	4000K	2,510 lm	70 lm/W	80	2 in	No	CWM	**56FH57**	**56FH58**	—
4 ft Nominal Length										
38 W	4000K	2,909 lm	77 lm/W	80	4 in	No	CWM	**56FH62**	**56FH63**	**56FH64**
43 W	4000K	3,261 lm	76 lm/W	80	4 in	No	CWM	**56FH59**	**56FH60**	**56FH61**

Columbia LIGHTING

LED Stairwell Lights



45VT37

- 120/277V AC
- Dimmable

LED lights mount to the wall in a stairwell to supply constant light at a low level or at full brightness when their onboard sensor detects movement. They help conserve energy by returning to a low-light setting when movement is no longer detected. These lights have built-in LED arrays so there are no light bulbs to install or replace.

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	Nom. L	Overall Width	Lighting Certification	Series	Item No.
Occupancy and Daylight Sensor									
34 W	4000K	4,100 lm	119 lm/W	80	4 ft	5 ⅝ in	DLC 5.0	Escalate	**656N94**
Occupancy Sensor									
42.2 W	4000K	5,152 lm	122 lm/W	80	4 ft	5 in	Unrated	LBIL	**45VT37**

56FH94

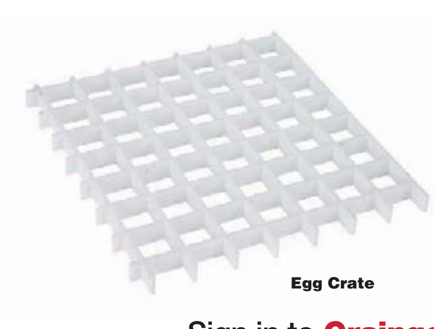
56FH90

Architectural LED Suspended Lights

- 120/277V AC
- Dimmable

Linear fixtures hang down from the ceiling to provide more light than a pendant fixture and a more refined look than a strip light or wraparound light. They are well suited for open spaces such as offices, education centers, and other customer-facing areas. They use significantly less energy than fluorescent fixtures and have built-in LED arrays so there are no light bulbs to install or replace.

Max. Fixture Wattage	Color Temp.	Lumens	Lumens Per Watt	Color Index	Overall Length	Overall Width	Lighting Certification	Brand	Item No.
LALR Series									
Grid Continuous									
36.8 W	4000K	4,000 lm	90 lm/W	90	48 in	4 in	DLC 4.4	Lumination	**56FH96**
37.8 W	3500K	4,000 lm	90 lm/W	90	48 in	4 in	DLC 4.4	Lumination	**56FH94**
40.5 W	4000K	4,000 lm	90 lm/W	90	48 in	2 in	DLC 4.4	Lumination	**56FH92**
41.7 W	3500K	4,000 lm	90 lm/W	90	48 in	2 in	DLC 4.4	Lumination	**56FH90**
Grid Starter/Stand Alone									
36.8 W	4000K	4,000 lm	90 lm/W	90	48 in	4 in	DLC 4.4	Lumination	**56FH97**
37.8 W	3500K	4,000 lm	90 lm/W	90	48 in	4 in	DLC 4.4	Lumination	**56FH95**
40.5 W	4000K	4,000 lm	90 lm/W	90	48 in	2 in	DLC 4.4	Lumination	**56FH93**
41.7 W	3500K	4,000 lm	90 lm/W	90	48 in	2 in	DLC 4.4	Lumination	**56FH91**
LALS Series									
Cable Mount, 10ft Length									
32 W	4000K	1,000 lm	125 lm/W	90	48 in	2 ½ in	Unrated	Albeo	**56FH99**
	4000K	1,000 lm	125 lm/W	90	48 in	3 ½ in	Unrated	Albeo	**56FJ03**
33 W	3500K	1,000 lm	121 lm/W	90	48 in	2 ½ in	Unrated	Albeo	**56FH98**
	3500K	1,000 lm	121 lm/W	90	48 in	3 ½ in	Unrated	Albeo	**56FJ02**



Egg Crate

Polymershapes

Replacement Light Panels

Lay into the T-bar grid under the fixture.

Type	Material	Description	L (in.)	W (in.)	Panel Thickness (in.)	Brand	PKG. QTY. 1 Item No.	PKG. QTY. 5 Item No.	PKG. QTY. 20 Item No.
Cracked Ice	Acrylic	Clear	47 ¾ in	23 ¾ in	0.06 in	Polymershapes	—	**4VZJ5**	**4VZH9**
Prismatic	Acrylic	Clear	47 ¾ in	23 ¾ in	0.095 in	Polymershapes	—	**4VZJ2**	—
	Acrylic	White	47 ¾ in	23 ¾ in	0.095 in	Polymershapes	—	**4VZJ4**	—
	Polycarbonate	Textured	48 in	24 in	0.125 in	Polymershapes	**3GYC1**	—	—
	Polycarbonate	Clear	96 in	48 in	0.125 in	Polymershapes	**3GYC2**	—	—
Egg Crate	Styrene	Grid Size ⅝ x ⅝ in, White	47 ¾ in	23 ¾ in	0.305 in	Polymershapes	—	**4VZJ1**	—

Linear LED Bay Light Fixtures

Install in new lighting layouts or upgrade fluorescent installations to LED. These fixtures use less energy and typically last longer than fluorescent lights, reducing maintenance and downtime. **General light distribution** forms a medium arc to light aisles when mounted from low ceilings or open spaces. **Narrow light distribution** focuses light in a small arc to reach the floor from high ceilings or project into aisles and other narrow spaces. **Wide light distribution** spreads light in a broad arc from low ceilings and across open layouts.

56PH87

Nominal Size	Max. Fixture Wattage	Emergency Battery Backup	Dimmable	Voltage	Series	Brand	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.	4000K/5000K Lumens	4000K/5000K Item No.
40 to 60 ft. Suggested Fixture Mounting Height														
General Light Distribution														
1 ft x 2 ft	106 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	18,531 lm	**56PH87**	—	—	—	—
	147 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	24,490 lm	**56PH89**	25,046 lm	**56PH90**	—	—
1 ft x 4 ft	290 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	47,261 lm	**56PH99**	48,017 lm	**56PJ02**	—	—
	290 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	—	—	48,017 lm	**56PJ04**	—	—
Narrow Light Distribution														
1 ft x 2 ft	147 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	—	—	25,046 lm	**56PH88**	—	—
1 ft x 4 ft	290 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	47,261 lm	**56PJ01**	48,017 lm	**56PJ03**	—	—
	365 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	59,715 lm	**56PJ05**	60,670 lm	**56PJ06**	—	—
	365 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	59,715 lm	**56PJ07**	60,670 lm	**56PJ08**	—	—
Wide Light Distribution														
1 ft x 2 ft	76 W	No	Yes	120 to 277 V AC	CLB	Columbia Lighting	—	—	10,527 lm	**61LM79**	10,477 lm	**61LM81**	—	—
	100 W	No	Yes	120 to 277 V AC	CLB	Columbia Lighting	—	—	15,091 lm	**61LM80**	13,717 lm	**61LM83**	—	—
	149 W	No	Yes	120 to 277 V AC	CLB	Columbia Lighting	—	—	—	—	22,297 lm	**61LM82**	—	—
	201 W	No	Yes	120 to 277 V AC	CLB	Columbia Lighting	—	—	—	—	29,674 lm	**61LM84**	—	—
1 ft x 4 ft	113.8 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	18,000 lm	**700F82**	—	—	—	—
	152.7 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	24,000 lm	**700F81**	—	—	—	—
	197.4 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	30,000 lm	**700F83**	—	—	—	—
2 ft x 2 ft	223 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	—	—	36,018 lm	**56PH98**	—	—
2 ft x 4 ft	197.4 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	—	—	30,000 lm	**56DZ75**	—	—
20 to 40 ft. Suggested Fixture Mounting Height														
General Light Distribution														
1 ft x 2 ft	107 W	No	Yes	120 to 277 V AC	FCY	Daybrite	—	—	—	—	—	—	15,000 lm	**60TZ65**
	164 W	No	Yes	120 to 277 V AC	FCY	Daybrite	—	—	—	—	—	—	22,000 lm	**60TZ64**
2 ft x 2 ft	223 W	No	Yes	347 to 480V	IBG	Lithonia Lighting	—	—	35,451 lm	**56PH97**	—	—	—	—
Narrow Light Distribution														
2 ft x 2 ft	223 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	—	—	36,018 lm	**56PH96**	—	—
Wide Light Distribution														
1 ft x 1 ft	50 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	9,000 lm	**49JL02**	9,000 lm	**49JL03**	—	—
	68 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	11,900 lm	**49JL04**	11,900 lm	**49JL05**	—	—
	109 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	17,600 lm	**49JL07**	17,600 lm	**49JL09**	—	—
	137 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	23,400 lm	**49JL12**	23,400 lm	**48TL32**	—	—
1 ft x 2 ft	62 W	No	Yes	120 to 277V	ABC1	Albeo	—	—	9,900 lm	**56FJ47**	—	—	—	—
	62 W	No	No	120 to 277V	ABC1	Albeo	—	—	—	—	9,900 lm	**56FJ32**	—	—
	78 W	No	No	120 to 277V	ABC1	Albeo	—	—	—	—	12,000 lm	**56FJ35**	—	—
	79 W	No	No	120 to 277V	ABC1	Albeo	—	—	12,000 lm	**56FJ30**	—	—	—	—
	126 W	No	No	120 to 277V	ABC1	Albeo	—	—	18,000 lm	**56FJ25**	18,000 lm	**56FJ50**	—	—
	126 W	No	Yes	120 to 277V	ABC1	Albeo	—	—	18,000 lm	**56FJ31**	—	—	—	—
	126 W	No	No	120 to 277V	ABC1	Albeo	—	—	—	—	18,000 lm	**56FJ51**	—	—
	157.9 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	24,000 lm	**656N87**	—	—	—	—
	158 W	No	No	480V	ABC1	Albeo	—	—	—	—	23,600 lm	**56FJ68**	—	—
	158.6 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	—	—	24,000 lm	**656N89**	—	—
	160 W	No	No	120 to 277V	ABC1	Albeo	—	—	12,000 lm	**56FJ29**	—	—	—	—
	160 W	No	No	120 to 277V	ABC1	Albeo	—	—	23,600 lm	**56FJ39**	—	—	—	—
	160 W	No	No	120V	ABC1	Albeo	—	—	—	—	23,600 lm	**56FJ67**	—	—
	221 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	35,500 lm	**54GD86**	35,500 lm	**54GD87**	—	—
	360 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	58,500 lm	**54GD84**	58,500 lm	**54GD85**	—	—
1 ft x 3 ft	284 W	No	Yes	120 to 277V	ABV3	Albeo	—	—	47,400 lm	**54GD89**	47,400 lm	**54GD91**	—	—
2 ft x 2 ft	223 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	35,451 lm	**56PH93**	—	—	—	—
Up to 20 ft. Suggested Fixture Mounting Height														
General Light Distribution														
1 ft x 2 ft	77 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	11,856 lm	**56PH80**	12,045 lm	**56PH84**	—	—
	83 W	No	Yes	120 to 277V	IBE	Lithonia Lighting	—	—	11,306 lm	**489D96**	11,652 lm	**489D97**	—	—
	106 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	18,531 lm	**56PH82**	18,297 lm	**56PH85**	—	—
	107 W	No	Yes	120 to 277V	IBE	Lithonia Lighting	—	—	13,966 lm	**489D98**	14,394 lm	**489D99**	—	—
	137 W	No	Yes	120 to 277V	IBE	Lithonia Lighting	—	—	17,762 lm	**489F01**	18,306 lm	**489F02**	—	—
	147 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	24,490 lm	**56PH83**	25,046 lm	**56PH86**	—	—
	166 W	No	Yes	120 to 277V	IBE	Lithonia Lighting	—	—	21,067 lm	**489F03**	21,712 lm	**489F04**	—	—
	182 W	No	Yes	120 to 277V	IBG	Lithonia Lighting	—	—	29,586 lm	**56PH91**	—	—	—	—
1 ft x 4 ft	34 W	No	Yes	120 to 277V	LIS	Albeo	4,000 lm	**53CT60**	4,200 lm	**53CT59**	—	—	—	—
	43 W	No	Yes	120 to 277V	LIS	Albeo	5,000 lm	**53CT62**	5,200 lm	**53CT61**	—	—	—	—
1 ft x 8 ft	66 W	No	Yes	120 to 277V	LIS	Albeo	8,000 lm	**53CT56**	8,400 lm	**53CT55**	—	—	—	—
	84 W	No	Yes	120 to 277V	LIS	Albeo	9,900 lm	**53CT58**	10,400 lm	**53CT57**	—	—	—	—
Wide Light Distribution														
1 ft x 2 ft	78.6 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	12,000 lm	**656N81**	12,000 lm	**656N82**	—	—
	122.7 W	No	Yes	120 to 277V	Peloton	Columbia Lighting	—	—	18,000 lm	**656N84**	18,000 lm	**656N85**	—	—
1 ft x 4 ft	29 W	No	Yes	120 to 277V	MSL	Lithonia Lighting	—	—	3,636 lm	**22CK50**	—	—	—	—
	30 W	No	Yes	120 to 277V	LUS	Lumination	4,200 lm	**56FT26**	4,200 lm	**56FT27**	—	—	—	—
	31 W	No	Yes	120 to 277V	LDS	Albeo	—	—	3,400 lm	**53CT73**	—	—	—	—
	37 W	No	Yes	120 to 277V	LUS	Lumination	5,200 lm	**56FT28**	5,200 lm	**56FT29**	—	—	—	—
	43.5 W	No	Yes	120 to 277V	LUS	Lumination	6,250 lm	**56FT30**	6,250 lm	**56FT31**	—	—	—	—
	91.1 W	No	Yes	120 to 277V	LXEW4	Columbia Lighting	—	—	—	—	12,283 lm	**53XX76**	—	—
	160 W	No	Yes	120 to 277V	600	RCA	—	—	—	—	20,000 lm	**53UE28**	—	—
1 ft x 5 ft	200 W	No	Yes	120 to 277V	600	RCA	—	—	—	—	25,000 lm	**53UE29**	—	—
1 ft x 8 ft	58 W	No	Yes	120 to 277V	LUS	Lumination	8,400 lm	**56FT20**	8,400 lm	**56FT21**	—	—	—	—
	58 W	No	Yes	120 to 277V	LUS	Lumination	8,400 lm	**56FT32**	8,400 lm	**56FT33**	—	—	—	—
	62 W	No	Yes	120 to 277V	LDS	Albeo	6,800 lm	**53CT70**	—	—	—	—	—	—
	66 W	No	Yes	120 to 277V	LDS	Albeo	8,000 lm	**53CT72**	8,000 lm	**53CT71**	—	—	—	—
	73 W	No	Yes	120 to 277V	LUS	Lumination	10,400 lm	**56FT22**	10,400 lm	**56FT23**	—	—	—	—
	73 W	No	Yes	120 to 277V	LUS	Lumination	10,400 lm	**56FT34**	10,400 lm	**56FT35**	—	—	—	—
	90 W	No	Yes	120 to 277V	LUS	Lumination	12,500 lm	**56FT24**	12,500 lm	**56FT25**	—	—	—	—
	90 W	No	Yes	120 to 277V	LUS	Lumination	12,500 lm	**56FT36**	12,500 lm	**56FT37**	—	—	—	—

40L059

Linear Fluorescent Bay Light Fixtures

- Non-dimmable

Deliver bright, uniform illumination from high ceilings or open trusses. Fixtures mount to illuminate warehouses, factories, gymnasiums, hangars, big-box stores, and other large, open spaces. **Narrow light distribution** focuses light in a small arc to reach the floor from high ceilings or project into aisles and other narrow spaces. **Wide light distribution** spreads light in a broad arc from low ceilings and across open layouts. **General light distribution** forms a medium arc to light aisles when mounted from low ceilings or open spaces.

Nominal Size	No. of Light Bars	For Bulb Type	Max. Fixture Wattage	Lamp Watts	Bulbs Included	Voltage	Series	Brand	Item No.
20 to 40 ft.									
Narrow Light Distribution									
1 ft x 4 ft	3	T5HO	162 W	54 W	Yes	277V	MS5HB	Lithonia Lighting	**33L660**
	4	T8	128 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**6CGC4**
	4	T8	128 W	32 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**40L055**
	4	T5HO	216 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**32JA08**
	4	T5HO	216 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA14**
	4	T5HO	216 W	54 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**32JA05**
1 ft x 8 ft	3	T5HO	324 W	54 W	Yes	277V	TMS5HB	Lithonia Lighting	**33L662**
2 ft x 4 ft	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**16U223**
	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**32JA07**
	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**4UKZ6**
	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA16**
	6	T5HO	324 W	54 W	No	347 to 480V	IBZ	Lithonia Lighting	**1THL7**
	6	T5HO	324 W	54 W	No	277V	IBZ	Lithonia Lighting	**1THN3**
	6	T5HO	324 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA15**
	6	T5HO	324 W	54 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**32JA06**
	8	T5HO	432 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6CGC5**
Wide Light Distribution									
1 ft x 4 ft	3	T5HO	162 W	54 W	Yes	120 to 277V	MS5HB	Lithonia Lighting	**1BP82**
	4	T8	128 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**4UKZ3**
	4	T8	128 W	32 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**40L056**
	4	T5HO	216 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA17**
	4	T5HO	216 W	54 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**40L080**
	4	F54T5HO	216 W	54 W	No	120 to 277V	—	LumaPro	**2NAZ1**
1 ft x 8 ft	6	T5HO	324 W	54 W	Yes	120 to 277V	TMS5HB	Lithonia Lighting	**1BP80**
2 ft x 4 ft	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA19**
	6	T8	192 W	32 W	No	120 to 277V	IBZ	Lithonia Lighting	**6CGC8**
	6	T8	192 W	32 W	Yes	120 to 277V	IBZ	Lithonia Lighting	**40L059**
	6	T5HO	324 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6AA18**
	6	T5HO	324 W	54 W	No	120 to 277V	IBZ	Lithonia Lighting	**6CGC7**
Up to 20 ft.									
General Light Distribution									
1 ft x 4 ft	2	T8	64 W	32 W	No	120 to 277V	AF	Lithonia Lighting	**3YA17**
	2	T8	64 W	32 W	No	120 to 277V	AFST	Lithonia Lighting	**5YA74**
	2	T8	64 W	32 W	No	120 to 277V	EJS	Lithonia Lighting	**2MZC8**
	2	T8	64 W	32 W	No	120 to 277V	EJSA	Lithonia Lighting	**2MZD1**
	2	T8	64 W	32 W	No	120 to 277V	L	Lithonia Lighting	**3XY70**
	2	T8	64 W	32 W	Yes	120V	L	Lithonia Lighting	**5YA73**
	2	T8	64 W	32 W	Yes	120 to 277V	LA	Lithonia Lighting	**3XY72**
	2	F32T8	64 W	32 W	No	120 to 277V	—	LumaPro	**35GW82**
	2	F32T8	64 W	32 W	No	120 to 277V	—	LumaPro	**35GW84**
	2	F32T8	64 W	32 W	No	120V	—	LumaPro	**2NAW8**
	2	T5HO	108 W	54 W	No	120 to 277V	AFP	Lithonia Lighting	**5YA77**
	2	T5HO	162 W	54 W	No	120 to 277V	AFP	Lithonia Lighting	**5YA79**
	3	T8	96 W	32 W	No	120 to 277V	EJ	Lithonia Lighting	**2MZC5**
	4	T8	128 W	32 W	No	120 to 277V	EJ	Lithonia Lighting	**5YA70**
	4	T8	128 W	32 W	No	120 to 277V	EJA	Lithonia Lighting	**5YA68**
	4	F32T8	128 W	32 W	No	120 to 277V	—	LumaPro	**35GW80**
	4	T8	128 W	32 W	Yes	120 to 277V	TAFST	Lithonia Lighting	**40L064**
	4	T8	128 W	32 W	Yes	120 to 277V	TL	Lithonia Lighting	**3XY86**
	4	T8	128 W	32 W	Yes	120 to 277V	TLA	Lithonia Lighting	**3XY87**
1 ft x 8 ft	2	F96T8	112 W	59 W	No	120 to 277V	—	LumaPro	**2NAX3**
	2	T8	118 W	59 W	No	120 to 277V	EJS	Lithonia Lighting	**2MZC9**
	2	T8	118 W	59 W	Yes	120 to 277V	L	Lithonia Lighting	**3XY71**
	2	T8	118 W	59 W	Yes	120 to 277V	LA	Lithonia Lighting	**3XY73**
	2	T8HO	172 W	86 W	Yes	120 to 277V	L	Lithonia Lighting	**2LYX5**
	2	T8HO	172 W	86 W	Yes	120 to 277V	LA	Lithonia Lighting	**2LYX6**
	4	F32T8	112 W	32 W	No	120 to 277V	—	LumaPro	**2NAX4**
	4	F32T8	128 W	32 W	No	120 to 277V	—	LumaPro	**35GW83**
	4	T8	128 W	32 W	Yes	120 to 277V	TAF	Lithonia Lighting	**3XY84**
	4	T8	128 W	32 W	Yes	120 to 277V	TEJSA	Lithonia Lighting	**2MZD8**
2 ft x 6 ft	2	F28T5	70 W	35 W	No	120 to 277V	—	LumaPro	**35GW97**
Narrow Light Distribution									
1 ft x 4 ft	4	T5HO	216 W	54 W	No	120 to 277V	IBC	Lithonia Lighting	**48H449**

30YT50

39WE21

483R42

656P02

56FJ04

Round LED Bay Light Fixtures

- Dimmable

Install in new lighting layouts or upgrade existing HID installations to LED. Use in older buildings where overhead ducts or pipes prevent the use of linear bay lights. These fixtures use less energy and typically last longer than HID lights, reducing maintenance and downtime. They deliver bright, uniform illumination from high ceilings in warehouses, factories, gymnasiums, hangars, big-box stores, and other large, open spaces.

LED Replacement For	Max. Fixture Wattage	Voltage	Series	Brand	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
40 to 60 ft. Suggested Fixture Mounting Height								
General Light Distribution								
10-Lamp T5HO, 575W MH/HPS	218 W	120 to 277V	JEBL	Lithonia Lighting	31,588 lm	**483R48**	31,815 lm	**483R49**
Narrow Light Distribution								
6-Lamp LFL	185 W	120 to 277V	JHBL	Lithonia Lighting	—	—	25,769 lm	**30YT52**
	185 W	347 to 480V	JHBL	Lithonia Lighting	—	—	25,769 lm	**30YT53**
400W MH/HPS	131 W	120 to 277V	JHBL	Lithonia Lighting	—	—	19,179 lm	**30YT48**
	131 W	347 to 480V	JHBL	Lithonia Lighting	—	—	19,179 lm	**30YT49**
Wide Light Distribution								
6-Lamp LFL	185 W	120 to 277V	JHBL	Lithonia Lighting	—	—	26,515 lm	**30YT54**
	185 W	347 to 480V	JHBL	Lithonia Lighting	—	—	26,515 lm	**30YT55**
400W MH/HPS	131 W	120 to 277V	JHBL	Lithonia Lighting	—	—	19,734 lm	**30YT50**
	131 W	347 to 480V	JHBL	Lithonia Lighting	—	—	19,734 lm	**30YT51**
20 to 40 ft. Suggested Fixture Mounting Height								
General Light Distribution								
400W MH/HPS	150 W	120 to 277V	CRN	Columbia Lighting	—	—	21,981 lm	**656P03**
400W MH/HPS, 6-Lamp T5HO, 8-Lamp T8	182 W	120 to 277V	JEBL	Lithonia Lighting	26,699 lm	**483R46**	26,890 lm	**483R47**
750W MH/HPS	201 W	120 to 277V	CRN	Columbia Lighting	—	—	29,018 lm	**656P04**
Wide Light Distribution								
250W MH/HPS	104 W	120 to 277V	ABN1	Albeo	17,100 lm	**56FJ08**	17,100 lm	**56FJ09**
400W MH/HPS	140 W	120 to 277V	ABN1	Albeo	22,700 lm	**56FJ10**	22,700 lm	**56FJ11**
	200 W	120 to 277V	—	Shat-R-Shield	—	—	18,000 lm	**39WE21**
750W MH/HPS	175 W	120 to 277V	ABN1	Albeo	27,000 lm	**56FJ12**	27,000 lm	**56FJ13**
Up to 20 ft. Suggested Fixture Mounting Height								
General Light Distribution								
4-Lamp T5HO, 6-Lamp T8	91 W	120 to 277V	JEBL	Lithonia Lighting	13,356 lm	**483R42**	13,452 lm	**483R43**
250W MH/HPS	100.6 W	120 to 277V	CRN	Columbia Lighting	—	—	14,444 lm	**656P02**
400W MH/HPS, 6-Lamp T5HO, 8-Lamp T8	137 W	120 to 277V	JEBL	Lithonia Lighting	19,783 lm	**483R44**	19,926 lm	**483R45**
Narrow Light Distribution								
250W MH/HPS	83 W	277V	JHBL	Lithonia Lighting	—	—	12,574 lm	**45UY92**
Wide Light Distribution								
150W MH/HPS	58 W	120 to 277V	ABN1	Albeo	9,000 lm	**56FJ04**	9,000 lm	**56FJ05**
175W MH/HPS	79 W	120 to 277V	ABN1	Albeo	12,000 lm	**56FJ06**	12,000 lm	**56FJ07**

1DE99

3JWK9

Round HID Bay Light Fixtures

- Pulse start ballast

Replace fixtures of the same shape and lighting technology to match existing lighting layouts. Use in older buildings where overhead ducts or pipes prevent the use of linear bay lights. These lights use high-intensity discharge (HID) bulbs and have a reflector that redirects light from the sides and top of the bulb and casts the light downward to increase intensity and reduce glare. They deliver bright, uniform illumination from high ceilings in warehouses, factories, gymnasiums, hangars, big-box stores, and other large, open spaces.

Lamp Type	Max. Fixture Wattage	Ballast Type	Bulbs Included	Voltage	Series	Item No.
20 to 40 ft.						
General Light Distribution						
High Pressure Sodium	450 W	Magnetic	Yes	120/208/240/277V	THD	**1DE99**
Metal Halide	450 W	Electronic	Yes	120/208/240/277V	THD	**3JWJ4**
Up to 20 ft.						
Wide Light Distribution						
High Pressure Sodium	295 W	Electronic	No	120 to 277V	TXC	**7E767**
General Light Distribution						
Metal Halide	400 W	Electronic	Yes	120/208/240/277V	TXD	**3JWK9**

LITHONIA LIGHTING · Columbia LIGHTING · LumaPro · PHILIPS Day-Brite

Linear LED Vapor Tight Light Fixtures

Washdown-Rated Linear 45VY72

Wet Location Linear LED Lights 55MR17

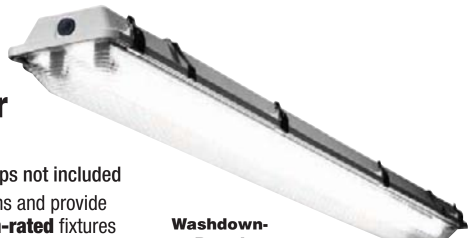
- 120V to 277V

Surface-mount fixtures illuminate a wide area for more coverage than round fixtures in damp or humid locations. LED lights use significantly less energy than fluorescent lights and have built-in LED arrays so there are no light bulbs to replace. **Washdown-rated** fixtures illuminate areas where equipment is regularly sprayed down to clean off dirt and debris. **Wet location** lights withstand occasional water drips or light sprays.

Nom. L	Max. Fixture Wattage	Dimmable	IP Rating	Overall Width	Overall Height	Series	Brand	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Washdown-Rated Linear LED Lights													
2 ft	18 W	Yes	65, 66	5 ⅞ in	3 ¾ in	DMW2	Lithonia Lighting	—	—	2,536 lm	**45VY72**	2,661 lm	**45VY75**
	20.7 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	—	—	2,571 lm	**53VU23**	—	—
	26.2 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	—	—	3,339 lm	**53VU24**	—	—
	27 W	Yes	65, 66	5 ⅞ in	3 ¾ in	DMW2	Lithonia Lighting	—	—	3,651 lm	**45VY73**	3,831 lm	**45VY76**
	38.5 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	—	—	4,560 lm	**53VU25**	—	—
	40 W	Yes	65, 66	5 ⅞ in	3 ¾ in	DMW2	Lithonia Lighting	—	—	4,855 lm	**45VY74**	5,094 lm	**45VY77**
4 ft	18 W	Yes	65, 66, 67	8 ¾ in	4 ⅜ in	FEM	Lithonia Lighting	—	—	2,876 lm	**53XH25**	2,907 lm	**53XH30**
	32 W	Yes	66	3 ¾ in	—	—	LumaPro	—	—	—	—	4,360 lm	**436R32**
	34 W	Yes	65, 66, 67	⅜ in	⅛ in	LXEN	Columbia Lighting	4,132 lm	**53XX91**	4,195 lm	**53XX93**	—	—
	37.7 W	Yes	65, 66, 67	8 ¾ in	4 ⅜ in	FEM	Lithonia Lighting	—	—	5,651 lm	**53XH27**	—	—
	37.7 W	Yes	65, 66, 67	6 ¾ in	4 ⅜ in	FEM	Lithonia Lighting	—	—	—	—	5,713 lm	**53XH32**
	42 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	5,089 lm	**39DZ82**	5,168 lm	**53VU30**	—	—
	47.3 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	—	—	6,222 lm	**53VU31**	—	—
	50.5 W	Yes	65, 66, 67	8 ¾ in	4 ⅜ in	FEM	Lithonia Lighting	—	—	7,435 lm	**53XH28**	7,516 lm	**53XH33**
	62 W	Yes	65, 66, 67	8 ¾ in	4 ⅜ in	FEM	Lithonia Lighting	—	—	9,248 lm	**53XH29**	9,348 lm	**53XH34**
8 ft	66.6 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	8,370 lm	**53VU32**	8,500 lm	**53VU36**	—	—
	123.2 W	Yes	65, 67	6 ¾ in	4 ⅜ in	LXEM	Columbia Lighting	15,292 lm	**53VU35**	—	—	—	—
Wet Location Linear LED Lights													
4 ft	35 W	No	65	3 ¼ in	—	VTC	Daybrite	—	—	3,600 lm	**55MR17**	—	—

LITHONIA LIGHTING · LumaPro

Linear Fluorescent Vapor Tight Light Fixtures



Washdown-Rated 40L093

Wet Location 6ECL3

- 120V to 277V
- Non-dimmable
- Lamps not included

Illuminate wide areas in damp or humid locations and provide more coverage than round fixtures. **Washdown-rated** fixtures illuminate areas where equipment is regularly sprayed down to clean off dirt and debris. **Wet location** lights withstand occasional water drips or light sprays. Surface mount.

Nom. L	Max. Fixture Wattage	Lamp Qty.	For Bulb Type	IP Rating	Housing Color	Overall Width	Overall Height	Series	Brand	Item No.
Washdown-Rated Linear Fluorescent Lights										
Ceiling, Surface, Suspended Mounting										
2 ft	34 W	2	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM2	Lithonia Lighting	**29NV67**
4 ft	64 W	2	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**16U241**
	64 W	2	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**40L093**
	64 W	2	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**40L094**
	108 W	2	T5HO	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**16U243**
8 ft	32 W	1	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM8	Lithonia Lighting	**40L084**
	32 W	1	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM8	Lithonia Lighting	**40L085**
	108 W	2	T5HO	65, 66, 67	Beige	7 in	4 ¾ in	FEM8	Lithonia Lighting	**16U240**
Ceiling, Surface, Suspended, Wall Mounting										
4 ft	64 W	2	T8	65	Beige	8 ⅛ in	5 ⅝ in	DMW	Lithonia Lighting	**3YA23**
	88 W	2	T8HO	65	Beige	8 ⅛ in	5 ⅝ in	DMW	Lithonia Lighting	**6HHG4**
	108 W	2	T5HO	65	Beige	8 ⅛ in	5 ⅝ in	DMW	Lithonia Lighting	**1VNU5**
8 ft	118 W	2	T8	65	Beige	8 ⅛ in	5 ⅝ in	DMW	Lithonia Lighting	**3YA24**
	172 W	2	T8HO	65	Beige	8 ⅛ in	5 ⅝ in	DMW	Lithonia Lighting	**2LYX9**
	64 W	4	T8	65	Beige	8 ⅛ in	5 ⅝ in	TDMW	Lithonia Lighting	**5YA12**
Surface, Suspended Mounting										
4 ft	54 W	1	28T5, 32, 54T5HO	65, 66, 67	Gray	7 in	4 ¾ in	FEM	Lithonia Lighting	**60WC09**
	128 W	4	T8	65, 66, 67	White	14 ⅝ in	6 in	FHE	Lithonia Lighting	**4VDC3**
	216 W	4	T5HO	65, 66, 67	White	14 ⅝ in	6 in	FHE	Lithonia Lighting	**4VDC4**
	192 W	6	T8	65, 66, 67	White	14 ⅝ in	6 in	FHE	Lithonia Lighting	**4VDC5**
	324 W	6	T5HO	65, 66, 67	White	14 ⅝ in	6 in	FHE	Lithonia Lighting	**4VDC6**
Suspended Mounting										
4 ft	64 W	2	T8	65	White	7 ¼ in	6 ½ in	EFT	Lithonia Lighting	**1BP87**
8 ft	172 W	2	T8HO	65	White	7 ¼ in	6 ½ in	EFT	Lithonia Lighting	**2LYX8**
Wet Location Linear Fluorescent Lights										
Ceiling, Surface, Suspended Mounting										
4 ft	32 W	1	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**40L083**
	32 W	1	T8	65, 66, 67	Beige	7 in	4 ¾ in	FEM4	Lithonia Lighting	**40L101**
Surface, Suspended Mounting										
4 ½ ft	32 W	2	T8	65, 66	Clear	8 ¼ in	4 ⅛ in	VAP	Lithonia Lighting	**6ECL4**
	54 W	2	T5HO	65, 66	Clear	8 ¼ in	4 ⅛ in	VAP	Lithonia Lighting	**6ECL3**
4 ft	118 W	2	F54T5HO	65	—	6 in	4 ¼ in	—	LumaPro	**31C002**

LED
453U70

Fluorescent
33VD99

Vapor Tight Troffer Lights

Recessed fixtures install within drop ceiling grids and illuminate wet, damp, or humid locations, such as showers, locker rooms, loading docks, basements, server rooms, and bus shelters. Housing and lens fit tightly together with a gasket to prevent dust and moisture from entering the fixture.

Nom. Size	Max. Fixture Wattage	Color Temp.	Lumens	Voltage	Dimmable	Overall Height	Series	Item No.
LED								
1 ft x 4 ft	87.6 W	4000K	10,343 lm	277V	Yes	7 ⅛ in	WRTL	**453U73**
2 ft x 2 ft	87.6 W	4000K	10,022 lm	277V	Yes	7 ⅛ in	2WRTL	**453U70**
	109.6 W	4000K	12,188 lm	277V	Yes	7 ⅛ in	2WRTL	**453U71**
4 ft x 4 ft	204.1 W	4000K	23,145 lm	277V	Yes	7 ⅛ in	2WRTL	**453U69**
Fluorescent								
2 ft x 4 ft	96 W	—	—	120 to 277V	No	4 ½ in	2VRT	**33VD99**
	96 W	—	—	120 to 277V	No	4 ½ in	2VRT	**33VE01**
—	128 W	—	—	120/277V	No	3 ¾ in	2WRT	**3XY80**

26X702

21R879

1UKB8

Round Vapor Tight Light Fixtures

- Gray finish

Fixtures hold a single bulb to illuminate small, damp, or humid areas such as boiler rooms, basements, and lower-level hallways. Housing and lens fit tightly together and seal with a gasket to prevent dust and moisture from entering the fixture.

Lamp Watts	Voltage	Mounting Style	Housing Material	Lamp Incl.	Lumens	Color Temp.	Brand	Item No.
LED								
11	120/277	Ceiling	Aluminum	—	600 lm	4,000 K	Lithonia Lighting	**26X701**
	120/277	Wall	Aluminum	—	600 lm	4,000 K	Lithonia Lighting	**26X702**
Incandescent								
150	125V	Ceiling	Composite	No	—	—	Hubbell Wiring Device-Kellems	**1UKB8**
	120V	Ceiling	Aluminum	No	—	—	Lithonia Lighting	**2PYJ1**
Metal Halide								
100	120	Ceiling	Cast Aluminum	Yes	—	—	LumaPro	**21R878**
	120	Pendant	Cast Aluminum	Yes	—	—	LumaPro	**21R879**
	120	Wall	Cast Aluminum	Yes	—	—	LumaPro	**21R880**

22N932

1VNN5

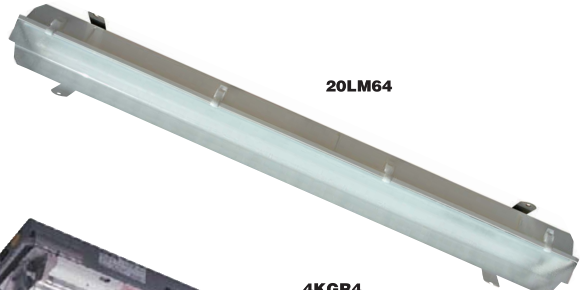
8XC99

Light Fixture Accessories

Replace cracked, dirty, or damaged parts on compatible fixtures.

Description	For Use With	Item No.
Appleton Electric		
PrismaticGlassGlobe,13"L,13"W,9"H,Clear	Mercmaster III Series	**22N932**
Columbia Lighting		
AcrylReplcmntLens,51 ¾"L,1 ½"H,Frstd	LXEN4 Series	**54PL49**
Hubbell Killark		
HazLoc Reflector Dome,Dome,16 ⅛"W,4"H	EMH Series, EMS Series, EQF Series	**2PDD5**
HazLoc Reflector Dome,Alum,14"W,3 ¾"H	EMI20 Series	**2PDJ9**
HazLoc Reflector Dome,16 ⅞"W,5 ⅝"H	EZ Series, VM Series	**2PDK3**
HazReflector30Deg,Dome,14 ¾"W,14 ⅞"H	EZ Series, VM Series	**2PDF8**
GlassGlobe,6 ⅝"L,3 ⅛"W,6 ⅝"H,Clear	NV2 Series	**2PDH1**
GlassGlobeTempered,6 ⅝"L,6 ¾"H,Clear	NV2 Series	**2PDH2**
HazLoc Reflector Dome,11 ¾"W,5 ⅜"H	NV2 Series	**2PDH3**
FixtureLens,12 ⅛"L,10 ¼"H,Clear	VM1 Series	**30YJ63**
GlassReflctorTyV,6 ⅜"L,5 ¼"W,6 ⅜"H	VM1 Series, VM3 Series	**2PDF5**
GlassRefractorTypeI,6 ⅜"L,6 ⅜"H,Clr	VM1 Series, VM3 Series	**2PDF4**
SpintopRefractor,13 ⅞"L,16 ½"H,Clear	VM1 Series, VM3 Series	**22P037**
SpintopRefractor,13 ⅞"L,16 ½"H,Clear	VM2 Series, VM4 Series	**22P038**
GlassReflctorTyV,6 ⅜"L,7 ½"W,6 ⅜"H	VM2 Series, VM5Q Series	**2PDF7**
GlassGlobe,6 ⅜"L,5 ¼"W,6 ⅜"H,Clear	VM3 Series	**2PDE4**
GlassGlobe,6 ⅜"L,7 ½"W,6 ⅜"H,Clear	VM4 Series	**2PDE5**
GlassRefractorTypeI,6 ⅜"L,6 ⅜"H,Clr	VM4 Series, VM5Q Series	**2PDF6**
HazLocGlassGlobe,10"L,7 ½"W,10"H,Clear	VM5 Series	**2PDE6**

Description	For Use With	Item No.
GlassGlobe,3 ½"L,3 ½"W,5 ¼"H,Amber	V Series	**22P041**
GlassGlobe,3 ½"L,3 ½"W,5 ¼"H,Blue	V Series	**22P044**
GlassGlobe,3 ½"L,3 ½"W,5 ¼"H,Green	V Series	**22P043**
GlassGlobe,3 ½"L,3 ½"W,5 ¼"H,White	V Series	**22P040**
HazGlasGlobe,3 ½"L,3 ½"W,5 ¼"H,Red	V Series	**22P042**
HazLocGlobe,3 ½"L,3 ½"W,5 ¼"H,Red	V Series	**22P048**
HazLoGlobe,3 ½"L,3 ½"W,5 ¼"H,Amber	V Series	**22P046**
HazLoGlobe,3 ½"L,3 ½"W,5 ¼"H,Clear	V Series	**22P045**
HazLoGlobe,3 ½"L,3 ½"W,5 ¼"H,Green	V Series	**22P047**
HazLoGlobe,3 ½"L,3 ½"W,5 ¼"H,White	V Series	**22P049**
Reflector,Shade,14 ⅞"L,7 ¾"W,8 ¼"H	V Series	**30YJ66**
Lithonia Lighting		
Replacement Lens,49-1/2 "L x 5½ "W	3348 Series	**2UJT1**
Replacement Lens,49-3/4 "L x 7⅜ "W	48 in Fixture, DMW Series	**1VNN5**
Replacement Lens,97-7/8 "L x 7⅜ "W	96 in Fixture, DMW Series	**1VNN6**
Replacement Lens,48"L,9 ½"W,6"H,Clear	EFS Series	**1VNP2**
ReplacmntLens,50"L,7 ¼"W,6 ½"H,Clear	EFT Series	**1VNP3**
ReplacmntLens,50"L,7 ¼"W,6 ½"H,Clear	EFT Series	**1VNP6**
LumaPro		
ReplacementLens,50 ¾"L,1 ⅞"H,Clear	31C003, 31C004	**31C006**
Shat-R-Shield		
Glass Globe,6 ¾"L,3"W,3"H,Clear	Jelly Jar Light Fixtures	**8XC99**



20LM64

4KGR4

20LM28

20LN09

Linear Fluorescent Hazardous Location Lights

Mount to flat surfaces and illuminate areas with flammable, combustible, or ignitable materials. They keep arcs and sparks contained so that the fixtures won't cause a fire or explosion.

Lamp Type	Max. Fixture Wattage	Lumens	Color Temp.	Temperature Code	Fixture Voltage	Overall Length	Emergency Battery Backup	Brand	Surface Item No.	Pendant Item No.
For Combustible Dust, Flammable Vapors & Gases; Escaped from Closed Systems										
Class I/Division 2, Class II/Division 2										
2 T5HO Fluorescent	72 W	6,600 lm	4100K	T4	120 to 270V AC	25 ⅞ in	No	Larson Electronics Llc	**20LM80**	**20LM81**
	108 W	5,000 lm	5000K	T4A	120/277/347/480V AC	52 ⅞ in	No	Larson Electronics Llc	**20LN19**	—
	108 W	10,000 lm	5000K	T4	120 to 277V AC	50 in	No	Larson Electronics Llc	**20LM60**	**20LM61**
2 T8 Fluorescent	64 W	5,900 lm	4100K	T4A	120/208/240/277V AC	52 in	Yes	Larson Electronics Llc	**20LM72**	**20LM73**
	64 W	5,900 lm	4100K	T4A	120/277/347/480V AC	51 ½ in	No	Larson Electronics Llc	**20LN21**	—
	64 W	5,900 lm, 8,100 lm, 10,000 lm	4100K	T4	120 to 277V AC	50 in	No	Larson Electronics Llc	**20LM64**	**20LM65**
	72 W	1,500 lm	4100K	T4	120 to 270V AC	25 ⅞ in	No	Larson Electronics Llc	**20LM84**	**20LM85**
3 T5HO Fluorescent	72 W	6,600 lm	4100K	T4	120 to 270V AC	25 ⅞ in	No	Larson Electronics Llc	**20LM82**	**20LM83**
	162 W	15,000 lm	5000K	T4A	120/208/240/277V AC	52 in	No	Larson Electronics Llc	**20LM62**	**20LM63**
3 T8 Fluorescent	51 W	3,975 lm	4100K	T4	120 to 277V AC	25 ⅞ in	Yes	Larson Electronics Llc	**20LM94**	—
	51 W	3,975 lm	4100K	T4	120 to 277V AC	52 in	Yes	Larson Electronics Llc	—	**20LM95**
	72 W	1,500 lm	4100K	T4	120 to 270V AC	25 ⅞ in	No	Larson Electronics Llc	**20LM86**	**20LM87**
	96 W	8,850 lm	4100K	T4A	120/208/240/277V AC	52 in	Yes	Larson Electronics Llc	**20LM74**	**20LM75**
	96 W	15,000 lm	4100K	T4A	120/208/240/277V AC	52 in	No	Larson Electronics Llc	**20LM66**	**20LM67**
4 T5HO Fluorescent	216 W	20,000 lm	5000K	T4A	120 to 277V AC	51 ½ in	No	Larson Electronics Llc	**20LN20**	—
4 T8 Fluorescent	128 W	11,800 lm	4100K	T4A	120 to 277V AC	51 ½ in	No	Larson Electronics Llc	**20LN22**	—
For Combustible Dust, Flammable Vapors & Gases; Present During Normal Operations										
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2										
2 T5HO Fluorescent	48 W	4,000 lm	4100K	T6	120/208/240/277V AC	27 ½ in	No	Larson Electronics Llc	**20LM24**	**20LM25**
	96 W	8,000 lm	4100K	T6	120/208/240/277V AC	27 ½ in	No	Larson Electronics Llc	**20LM26**	**20LM27**
	108 W	10,000 lm	5000K	T6	120 to 277V AC	52 in	No	Larson Electronics Llc	**20LM12**	**20LM13**
2 T8 Fluorescent	32 W	5,900 lm	4100K	T6	120/208/240/277V AC	52 in	No	Larson Electronics Llc	**20LM20**	—
	48 W	4,000 lm	4100K	T6	120/208/240/277V AC	27 ½ in	No	Larson Electronics Llc	**20LM28**	**20LM29**
	64 W	5,900 lm	4100K	T6	120/208/240/277V AC	52 in	Yes	Larson Electronics Llc	—	**20LM21**
	110 W	5,900 lm, 8,100 lm, 10,000 lm	4100K	T6	120 to 277V AC	52 in	No	Larson Electronics Llc	**20LM16**	**20LM17**
4 T5HO Fluorescent	68 W	5,300 lm	4100K	T6	120/208/240/277V AC	27 in	No	Larson Electronics Llc	**20LM33**	—
	96 W	8,000 lm	4100K	T6	120/208/240/277V AC	27 in	No	Larson Electronics Llc	**20LM31**	—
	216 W	20,000 lm	5000K	T6	120 to 277V AC	52 in	No	Larson Electronics Llc	**20LM14**	**20LM15**
	216 W	20,000 lm	5000K	T6	120/220/240/277/347/480V AC	57 ¾ in	No	Larson Electronics Llc	**20LM05**	—
4 T8 Fluorescent	68 W	5,300 lm	4100K	T6	120/208/240/277V AC	27 in	Yes	Larson Electronics Llc	**20LM35**	—
	128 W	11,800 lm	4100K	T6	120/208/240/277V AC	52 in	Yes	Larson Electronics Llc	**20LM09**	—
	216 W	20,000 lm	4100K	T6	120/220/240/277/347/480V AC	57 ¾ in	No	Larson Electronics Llc	**20LM07**	—
8 T5HO Fluorescent	192 W	160,000 lm	5000K	T6	120/208/240/277V AC	27 in	No	Larson Electronics Llc	**20LM32**	—
	432 W	40,000 lm	5000K	T6	120/220/240/277/347/480V AC	57 ¾ in	No	Larson Electronics Llc	**20LM06**	—
For Fibers & Flyings, Combustible Dust, Flammable Vapors & Gases; Escaped from Closed Systems										
Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III/Division 1, Class III/Division 2										
2 T5HO Fluorescent	120 W	10,000 lm	Lamp Dependent	T5	120 to 277V AC	4 ½ in	No	Hubbell Killark	**10N094**	—
2 T8 Fluorescent	38 W	2,650 lm	Lamp Dependent	T5	120 to 277V AC	—	No	Hubbell Killark	**2PDJ6**	—
	65 W	1,350 lm	Lamp Dependent	T6	120 to 277V AC	4 ½ in	Yes	Hubbell Killark	**4KGR5**	—
	65 W	5,900 lm	Lamp Dependent	T6	120 to 277V AC	55 ½ in	Yes	Hubbell Killark	**2PDA4**	—
	65 W	5,900 lm	Lamp Dependent	T6	120 to 277V AC	4 ½ in	No	Hubbell Killark	**4KGR4**	—
	65 W	5,900 lm	Lamp Dependent	T6	120 to 277V AC	4 ½ in	No	Hubbell Killark	**6YE81**	—
Class I/Division 2, Class II/Division 2										
2 T8 Fluorescent	34 W	2,650 lm	4100K	T4C	120 to 277V AC	52 in	Yes	Larson Electronics Llc	**20LM92**	**20LM93**
For Flammable Vapors & Gases; Escaped from Closed Systems										
Class I/Division 2										
2 T5HO Fluorescent	48 W	4,000 lm	5000K	T4A	120/208/240/277V AC	25 ½ in	No	Larson Electronics Llc	**20LM48**	**20LM49**
	108 W	5,000 lm	5000K	T4C	120/208/240/277V AC	54 in	No	Larson Electronics Llc	**20LN07**	**20LN08**
	108 W	10,000 lm	4100K	T4C	120 to 277V AC	54 in	No	Larson Electronics Llc	**20LN13**	**20LN14**
	108 W	10,000 lm	5000K	T4A	120/208/240/277V AC	49 ¾ in	No	Larson Electronics Llc	**20LM38**	**20LM39**
2 T8 Fluorescent	34 W	5,900 lm	4100K	T4A	120/208/240/277V AC	25 ½ in	No	Larson Electronics Llc	**20LM50**	**20LM51**
	48 W	4,000 lm	4100K	T4A	120/208/240/277V AC	25 ½ in	Yes	Larson Electronics Llc	**20LM54**	**20LM55**
	64 W	5,900 lm	4100K	T4A	120/208/240/277V AC	49 ¾ in	No	Larson Electronics Llc	**20LM40**	**20LM41**
	64 W	5,900 lm	4100K	T4A	120/208/240/277V AC	49 ¾ in	Yes	Larson Electronics Llc	**20LM44**	**20LM45**
	108 W	2,950 lm	5600K	T4C	120/208/240/277V AC	54 in	No	Larson Electronics Llc	—	**20LN10**
	108 W	2,950 lm	4100K	T4C	120/208/240/277V AC	54 in	No	Larson Electronics Llc	**20LN09**	—
	108 W	6,720 lm	4100K	T4C	120 to 277V AC	54 in	No	Larson Electronics Llc	**20LN15**	**20LN16**

20LM56

20LM22

20LN01

Linear LED Hazardous Location Lights

- Color temp. 5600K

LED lights use less energy and typically last longer than other lighting technologies. These lights mount to flat surfaces and illuminate areas with flammable, combustible, or ignitable materials. They keep arcs and sparks contained so that the fixtures won't cause a fire or explosion.

Lamp Type	Max. Fixture Wattage	Lumens	Temperature Code	Fixture Voltage	Overall Length	Emergency Battery Backup	Surface Item No.	Pendant Item No.
For Combustible Dust, Flammable Vapors & Gases; Escaped from Closed Systems								
Class I/Division 2								
2 T8 LED	56 W	7,000 lm	T4A	120 to 277V AC	52 in	No	**20LM56**	**20LM57**
Class I/Division 2, Class II/Division 2								
2 T8 LED	28 W	3,500 lm	T4	11 to 25V AC, 120 to 277VAC	25 ⅞ in	No	**20LM76**	**20LM77**
	28 W	3,500 lm	T4	120 to 277V AC	52 in	Yes	**20LM88**	**20LM89**
	56 W	7,000 lm	T4	120 to 277V AC	50 in	Yes	**20LM68**	—
	56 W	7,000 lm	T4A	120 to 277V AC	50 in	Yes	—	**20LM69**
	56 W	7,000 lm	T4C	11 to 25V AC, 120 to 277VAC	51 ½ in	No	**20LN17**	—
3 T8 LED	42 W	4,116 lm	T4	120 to 277V AC	52 in	Yes	**20LM90**	**20LM91**
	42 W	5,250 lm	T4	11 to 25V AC, 120 to 277VAC	25 ⅞ in	No	**20LM78**	**20LM79**
	84 W	6,480 lm	T4A	120 to 277V AC	52 in	Yes	**20LM70**	**20LM71**
	84 W	10,500 lm	T4	120 to 277V AC	49 in	No	**20LM58**	**20LM59**
4 T8 LED	112 W	14,000 lm	T4A	120 to 277V AC	49 ¾ in	No	**20LN18**	—
For Combustible Dust, Flammable Vapors & Gases; Present During Normal Operations								
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2								
2 T8 LED	28 W	3,500 lm	T6	120 to 277V AC	27 ½ in	No	**20LM22**	**20LM23**
	56 W	7,000 lm	T6	120 to 277V AC	52 in	Yes	**20LM18**	**20LM19**
	56 W	7,000 lm	T6	120 to 277V AC	52 in	No	**20LM10**	**20LM11**
4 T8 LED	60 W	5,400 lm	T6	120/208/240/277V AC	27 in	Yes	**20LM34**	—
	60 W	5,400 lm	T6	120/208/240/277V AC	27 in	No	**20LM30**	—
	96 W	5,850 lm	T6	120 to 277V AC	52 in	Yes	**20LM08**	—
	112 W	14,000 lm	T6	120 to 277V AC	52 in	No	**20LM04**	—
For Flammable Vapors & Gases; Escaped from Closed Systems								
Class I/Division 2								
2 T8 LED	28 W	2,520 lm	T4A	120/208/240/277V AC	25 ½ in	Yes	**20LM52**	**20LM53**
	30 W	2,700 lm	T4A	120/208/240/277V AC	25 ½ in	Yes	**20LN03**	—
	30 W	2,700 lm	T4C	12 to 24V AC, 120 to 277VAC	28 in	No	**20LN11**	**20LN12** *
	30 W	4,320 lm	T4A	120/208/240/277V AC	25 ½ in	No	**20LM46**	**20LM47**
	48 W	4,320 lm	T4C	120/208/240/277V AC	49 ¾ in	Yes	**20LM42**	**20LM43**
	48 W	10,500 lm	T4	120 to 277V AC	51 ⅛ in	Yes	**20LM98**	—
	56 W	6,720 lm	T4C	12 to 24V AC, 120 to 277VAC	54 in	No	**20LN05**	**20LN06**
	56 W	6,720 lm	T4	120 to 277V AC, 24V AC	51 ⅛ in	No	**20LM96**	—
3 T8 LED	28 W	2500	T4A	120/208/240/277V AC	25 ½ in	No	**20LN01**	—
	42 W	5,250 lm	T4A	11 to 25V AC, 120 to 277VAC	25 ½ in	No	**20LN02**	—
	45 W	4,050 lm	T4A	120/208/240/277V AC	25 ½ in	Yes	**20LN04**	—
	72 W	6,480 lm	T4	120 to 277V AC	51 ⅛ in	Yes	**20LM99**	—
	84 W	10,500 lm	T4	120 to 277V AC, 24V AC	51 ⅛ in	No	**20LM97**	—
4 T8 LED	56 W	7,000 lm	T4	120 to 277V AC	53 ¾ in	No	**20LM36**	**20LM37**

** Color Temp. 4100K*

7AP49

7AP56

7AP65

Hazardous Location Signal & Warning Lights

HUBBELL KILLARK

- Hazard classification: Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III

Mark restricted areas, call attention to non-functioning machinery, or alert people to nearby hazards in locations with flammable, combustible, or ignitable materials. **LED signal flashers** provide a longer service life than xenon flashers. **Xenon signal flashers** produce shorter but more intense light bursts than LED flashers.

Mounting Location	Voltage	Max. Fixture Wattage	Temperature Code	Amber Item No.	Red Item No.	Green Item No.
LED Hazardous Location Signal Flashers						
Ceiling	12-80V DC	1 W	T6	**7AP49**	**7AP50**	**7AP51**
	120-240V AC	1 W	T6	**7AP46**	**7AP47**	**7AP48**
Pendant	12-80V DC	1 W	T6	**7AP35**	**7AP36**	**7AP37**
	120-240V AC	1 W	T6	**7AP32**	**7AP33**	**7AP34**
Wall	12-80V DC	1 W	T6	**7AP63**	**7AP64**	**7AP65**
	120-240V AC	1 W	T6	**7AP60**	**7AP61**	**7AP62**
Xenon Hazardous Location Signal Flashers						
Ceiling	12-80V DC	2.7 W	T2C	**7AP55**	**7AP56**	**7AP57**
	120V AC	2.7 W	T2C	**7AP52**	**7AP53**	**7AP54**
Pendant	12-80V DC	2.7 W	T2C	**7AP41**	**7AP42**	**7AP43**
	120V AC	2.7 W	T2C	**7AP38**	**7AP39**	**7AP40**
Wall	12-80V DC	2.7 W	T2C	**7AP69**	**7AP70**	**7AP71**
	120V AC	2.7 W	T2C	**7AP66**	**7AP67**	**7AP68**

Round Hazardous Location Light Fixtures

Provide a traditional jelly jar look and match existing lights for general lighting in areas with flammable, combustible, or ignitable materials. They keep arcs and sparks contained so that the fixtures won't cause a fire or explosion.

39UR90

2V738

7AA07

Lighting Technology	For Bulb Shape	Max. Fixture Wattage	Lumens	Color Temp.	Temperature Code	Fixture Voltage	Brand	Pendant Item No.	Ceiling Item No.	Wall Item No.
For Flammable Vapors & Gases; Escaped from Closed Systems										
Class I/Division 2										
LED	A19	10 W	1,050 lm	5600K	T2D	12 or 24V AC, 120 to 277V AC	Larson Electronics Llc	**39UR83**	**39UR85**	**39UR90**
For Fibers & Flyings, Combustible Dust, Flammable Vapors & Gases; Present During Normal Operations										
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III										
Incandescent	PS25	300 W	—	Lamp Dependent	T3C	—	Appleton Electric	**2V738**	—	—
	A23/PS25	300 W	—	Lamp Dependent	T3C	120V AC	Appleton Electric	**7D773**	—	—
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III/Division 1, Class III/Division 2										
LED	Integrated LED	45 W	3,479 lm	5000K	T6	120 to 277V AC	Killark	**7J126**	**7J127**	**7J128**
Incandescent	A21	150 W	2,880 lm	Lamp Dependent	T4	120 to 277V AC	Hubbell Killark	—	**36D166**	—
	A23/PS25	300 W	6,360 lm	Lamp Dependent	T3C	120 to 277V AC	Killark	**7A0W8**	—	**7AA04**
For Fibers & Flyings, Combustible Dust, Flammable Vapors & Gases; Escaped from Closed Systems										
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III										
Incandescent	A23/PS25	300 W	—	Lamp Dependent	T3C	120V AC	Appleton Electric	—	—	**7D774**
Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III/Division 1, Class III/Division 2										
LED	Integrated LED	45 W	3,813 lm	5000K	T4A	120 to 277V AC	Killark	**7J129**	**7J130**	**7J131**
Class I/Division 2, Class II/Division 2, Class III										
Incandescent	A19/A21	150 W	2,087 lm	Lamp Dependent	T2B	120 to 277V AC	Killark	**7A0X1**	—	**7AA07**
Fluorescent	A19/A21	150 W	2,087 lm	Lamp Dependent	T2B	120 to 277V AC	Killark	—	**7A142**	—
Class I/Division 2, Class II/Division 2, Class III/Division 1, Class III/Division 2										
LED	Integrated LED	13 W	1,300 lm	5000K	T5	120 to 277V AC	Hubbell Killark	—	**7AY42**	**7AY50**
	Integrated LED	13 W	1,300 lm	5000K	T5	120 to 277V AC	Hubbell Killark	—	**7AY43**	**7AY51**
	Integrated LED	16 W	1,625 lm	5000K	T5	120 to 277V AC	Hubbell Killark	—	**7AY45**	**7AY53**
	Integrated LED	16 W	1,625 lm	5000K	T5	120 to 277V AC	Hubbell Killark	—	**7AY44**	**7AY52**
For Combustible Dust, Flammable Vapors & Gases; Present During Normal Operations										
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III										
Incandescent	A23/PS25	300 W	—	Lamp Dependent	T3C	120V AC	Appleton Electric	—	**7D772**	—

Square Hazardous Location Light Fixtures

High-output lighting fixtures require less mounting space than linear fixtures and illuminate large spaces in hazardous locations with flammable, combustible, or ignitable materials. They keep arcs and sparks contained so that the fixtures won't cause a fire or explosion.

20LN54

61LD40

Mounting Location	Max. Fixture Wattage	Lumens	Color Temp.	Temperature Code	Fixture Voltage	Overall Length	Overall Width	Overall Height	Brand	Item No.
Square Hazardous Location Floodlights										
Class I/Division 2										
Pendant, Surface	185 W	18,500 lm	6500K	T4	90 to 305V AC	15 ¾ in	15 ¾ in	7 ¼ in	Larson Electronics Llc	**20LN26**
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III/Division 1, Class III/Division 2										
Ceiling, Wall	150 W	21,000 lm	6000K	T5	100 to 277V AC, 11 to 25V AC	5 in	16 in	14 in	Larson Electronics Llc	**20LN54**
	150 W	21,000 lm	6000K	T5	100 to 277V AC, 11 to 25V AC	5 in	16 in	14 in	Larson Electronics Llc	**20LN55**
Wall	450 W	52,500 lm	5000K	T5	100 to 277V AC, 11 to 25V AC	42 ⅞ in	16 ½ in	23 ¼ in	Larson Electronics Llc	**39UR84**
Square Hazardous Location High Bays										
Class I/Division 2										
Pendant, Surface	185 W	18,500 lm	6500K	T4	90 to 305V AC	15 ¾ in	15 ¾ in	7 ¼ in	Larson Electronics Llc	**20LN25**
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III/Division 1, Class III/Division 2										
Ceiling, Wall	150 W	21,000 lm	6000K	T5	100 to 277V AC, 11 to 25V AC	5 in	16 in	14 in	Larson Electronics Llc	**20LN23**
Ceiling, Pendant, Wall	150 W	21,000 lm	6000K	T5	100 to 277V AC, 11 to 25V AC	5 in	16 in	14 in	Larson Electronics Llc	**20LN24**
Ceiling, Wall	300 W	42,000 lm	5000K	T5	100 to 277V AC, 11 to 25V AC, 125 to 250V AC, 18 to 48V AC, 347 to 480V AC	27 ⅞ in	16 ⅛ in	16 ¾ in	Larson Electronics Llc	**39UR88**
Class I/Division 1, Class I/Division 2, Class II/Division 1, Class II/Division 2, Class III										
Cable, Ceiling, Pendant, Wall	100 W	—	—	T5	100 to 277V AC, 11 to 25V AC	5 in	16 in	14 in	Larson Electronics Llc	**39UR87**
Pendant	90 W	11,200 lm	5000K	T3C; T4	120/277 V AC	13 in	10 ¼ in	5 ⅝ in	Shat-R-Shield	**61LD40**
	90 W	11,200 lm	5000K	T3C; T4	120/277 V AC	13 in	10 ¼ in	5 ⅝ in	Shat-R-Shield	**61LD41**

MediMode Behavioral Confinement 54ZJ61

Supermax Confinement 61HR32

Recessed-Mount Vandal-Resistant LED Light Fixtures

- 120V to 277V
- Dimmable

Sturdy housing and thick lens resist impacts and tampering. Fixtures install in walls or ceilings to conceal wiring and housing, leaving no gaps to hide contraband or pry off the fixture. Illuminate schools, public restrooms, transit centers, and other high-abuse areas.

Nom. Size	Max. Fixture Wattage	Color Index	Height	Housing Material	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.
Luminaire LED								
Supermax Confinement Fixtures								
2 ft x 2 ft	50 W	82	2 ⅞ in	Steel	4,502 lm	**61HR33**	4,642 lm	**61HR32**
2 ft x 4 ft	100 W	82	2 ⅞ in	Steel	10,816 lm	**61HR35**	11,151 lm	**61HR34**
Lifeshield								
MediMode Behavioral Confinement Fixtures								
2 ft x 2 ft	41 W	90	4 ⅜ in	Polyester	3,004 lm	**54ZJ62**	—	—
2 ft x 2 ft	84 W	90	4 ⅜ in	Polyester	6,168 lm	**54ZJ61**	—	—
2 ft x 4 ft	106 W	90	4 ⅜ in	Polyester	7,985 lm	**54ZJ64**	—	—
2 ft x 4 ft	169 W	90	4 ⅜ in	Polyester	13,768 lm	**54ZJ63**	—	—

Ironclad VRPro Confinement 494F12

Anyx Vandal-Resistant 61HR50

Judge Vandal-Resistant 61HR54

Supermax Confinement 61HR38

Swoop Vandal-Resistant 61HR48

Vision Vandal-Resistant 61HR44

shat-r-shield INC. The Protective Lighting Company — LITHONIA LIGHTING

Flush-Mount Vandal-Resistant LED Light Fixtures

- 120V to 277V
- Dimmable

Fixtures install tightly against walls or ceilings and leave no gaps to hide contraband or pry off the fixture. **Vandal-resistant lights** have a sturdy housing and thick lens that resist impacts and tampering. They illuminate schools, public restrooms, transit centers, and other high-abuse areas. **Confinement lights** combine vandal resistance with features such as ligature resistance or dual lenses that help prevent people from using the fixtures to hurt themselves or others in correctional facilities, detention centers, behavioral health centers, and holding areas.

Max. Fixture Wattage	Color Index	Nom. L	Height	Width	Housing Material	Series	2700K Lumens	2700K Item No.	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Shat-R-Shield														
Ironclad VRPro Confinement Fixtures														
42 W	80	1 ft	1 ⅞ in	12 ¼ in	Steel	VRPro	4,160 lm	**55EC89**	4,550 lm	**55EC88**	4,790 lm	**55EC87**	4,400 lm	**494F12**

Max. Fixture Wattage	Color Index	Nom. L	Height	Width	Housing Material	Series	3500K Lumens	3500K Item No.	4000K Lumens	4000K Item No.
Luminaire LED										
Anyx Vandal-Resistant Light Fixtures										
25 W	82	1 ft	3 ⅞ in	13 ⅛ in	Polycarbonate	ARV13	2,358 lm	**61HR50**	2,429 lm	**61HR51**
50 W	82	1 ½ ft	5 in	17 in	Polycarbonate	ARV17	4,160 lm	**61HR52**	4,289 lm	**61HR53**
Judge Vandal-Resistant Light Fixtures										
25 W	82	2 ft	4 ⅜ in	4 ⅝ in	Steel	LVP524	3,089 lm	**61HR54**	3,186 lm	**61HR55**
50 W	82	4 ft	4 ⅜ in	4 ⅝ in	Steel	LVP524	6,192 lm	**61HR56**	6,384 lm	**61HR57**
Supermax Confinement Fixtures										
25 W	82	1 ft	4 in	13 ½ in	Steel	SMQ	2,079 lm	**61HR39**	2,143 lm	**61HR38**
50 W	82	3 ft	2 ¾ in	11 in	Steel	SMP	4,273 lm	**61HR37**	4,406 lm	**61HR36**
50 W	82	2 ft	10 ¾ in	7 ⅝ in	Steel	WMP	3,772 lm	**61HR41**	3,889 lm	**61HR40**
Swoop Vandal-Resistant Light Fixtures										
25 W	82	1 ft	5 in	12 ⅜ in	Polycarbonate	SWP1212	2,280 lm	**61HR49**	2,351 lm	**61HR48**
Vision Vandal-Resistant Fixtures										
50 W	82	4 ft	2 ¾ in	4 ⅜ in	Aluminum	VPF4	5,030 lm	**61HR43**	5,189 lm	**61HR42**
50 W	82	4 ft	4 in	8 ¾ in	Aluminum	VPF8	5,317 lm	**61HR45**	5,483 lm	**61HR44**
50 W	82	4 ft	4 in	12 ⅜ in	Aluminum	VPF12	4,840 lm	**61HR47**	5,261 lm	**61HR46**

Shower-Area Confinement LED Light Fixtures

shat-r-shield INC. The Protective Lighting Company

61LD42

- 120V to 277V
- Dimmable
- IP rating 66
- 304 stainless steel housing
- 9 ¼" dia. x 1 ⅞" H

Resist corrosion and illuminate humid or wet locations where lights may be subject to impacts and abuse. They install in showers, locker rooms, and bathrooms in correctional facilities, behavioral health centers, schools, health clubs, and dormitories.

Max. Fixture Wattage	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Tamper Proof Bolts Mounting Hardware				
Ceiling				
24 W	1,500 lm	**61LD42**	1,500 lm	**61LD48**
27 W	1,800 lm	**61LD54**	1,800 lm	**61LD60**
32 W	2,650 lm	**61LD66**	2,650 lm	**61LD72**
Wall				
24 W	1,500 lm	**61LD45**	1,500 lm	**61LD51**
27 W	1,800 lm	**61LD57**	1,800 lm	**61LD63**
32 W	2,650 lm	**61LD69**	2,650 lm	**61LD75**
Spike Anchors Mounting Hardware				
Ceiling				
24 W	1,500 lm	**61LD44**	1,500 lm	**61LD50**
27 W	1,800 lm	**61LD56**	1,800 lm	**61LD62**
32 W	2,650 lm	**61LD68**	2,650 lm	**61LD74**

Max. Fixture Wattage	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Wall				
24 W	1,500 lm	**61LD47**	1,500 lm	**61LD53**
27 W	1,800 lm	**61LD59**	1,800 lm	**61LD65**
32 W	2,650 lm	**61LD71**	2,650 lm	**61LD77**
Cinder Block Fasteners Mounting Hardware				
Ceiling				
24 W	1,500 lm	**61LD43**	1,500 lm	**61LD49**
27 W	1,800 lm	**61LD55**	1,800 lm	**61LD61**
32 W	2,650 lm	**61LD67**	2,650 lm	**61LD73**
Wall				
24 W	1,500 lm	**61LD46**	1,500 lm	**61LD52**
27 W	1,800 lm	**61LD58**	1,800 lm	**61LD64**
32 W	2,650 lm	**61LD70**	2,650 lm	**61LD76**

Ceiling-Mounted LED Patient Room Lights

Columbia LIGHTING

53VY25

61KE73

- Dimmable
- Color temp. 3500K

Feature multiple switching modes to adjust brightness from general, ambient lighting to brighter, examination lighting. Commonly used in healthcare facilities and resident rooms in assisted-living centers.

Ceiling Mount Type	Nom. Size	Max. Fixture Wattage	Voltage	Lumens	Lens Shape	Overall Height	Series	Item No.
MediMode LED Patient Room Lights								
Columbia Lighting								
Grid Mount	2 ft x 4 ft	73 W	120V	5,730 lm	Center Basket	4 in	MediMode	**488U72** *
Grid Mount	2 ft x 4 ft	73 W	120V	5,730 lm	Center Basket	4 in	MediMode	**53VY25**
Grid Mount	2 ft x 4 ft	73 W	277V	5,730 lm	Center Basket	4 in	MediMode	**53VY26**
Flange Mount	2 ft x 4 ft	73 W	120V	5,730 lm	Center Basket	4 in	MediMode	**53VY27**
Flange Mount	2 ft x 4 ft	73 W	277V	5,730 lm	Center Basket	4 in	MediMode	**53VY28**
Trilume LED Patient Room Lights								
Healthcare Lighting								
Grid Mount	2 ft x 2 ft	68.3 W	120V	2,132 lm, 6,008 lm	Curved	5 ¾ in	HPT822	**61KE74**
Grid Mount	2 ft x 4 ft	155 W	120V	4,937 lm, 14,034 lm	Curved	5 ¾ in	HPT824	**61KE73**

***** *Low voltage controller for individual control of ambient/reading mode.*

53XX94

Columbia LIGHTING

Wall-Mounted LED Bed Lights

- Non-dimmable
- Color temp. 3500K
- Nominal length 4 ft.

These fixtures mount on a wall and supply reading light above patient beds. Antimicrobial finish inhibits germ growth to help prevent the spread of infection. Built-in LED arrays eliminate the need to replace bulbs.

Housing Color	Max. Fixture Wattage	Lumens	Color Index	Voltage	Series	Item No.
LED Patient Bed Light						
Dual Optical Compartments for Both Ambient and Reading Light						
White	37 W	3,751 lm	80	120V	EBL	**53XX94**
White	37 W	3,751 lm	80	277V	EBL	**53XX95**
Silver	37 W	3,751 lm	80	120V	EBL	**53XX96**
Silver	37 W	3,751 lm	80	277V	EBL	**53XX97**
Taupe	37 W	3,751 lm	80	120V	EBL	**53XX98**
Taupe	37 W	3,751 lm	80	277V	EBL	**53XX99**
Night Light, On/Off Pull Switch On Left Hand						
White	37 W	3,751 lm	90	120V	EBL	**488U61**
Night Light, On/Off Pull Switch On Right Hand						
White	37 W	3,751 lm	90	120V	EBL	**488U60**
On/Off Pull Switch On Left Hand						
White	37 W	3,751 lm	90	120V	EBL	**488U59**
On/Off Pull Switch On Right Hand						
White	37 W	3,751 lm	90	120V	EBL	**488U58**

35YM04

35YM06

prescolite

PHILIPS CHLORIDE

Wall-Mounted LED Nightlights

- 120/277VAC
- White housing color

Fixtures hard wire into an electrical system and provide nighttime lighting in patient rooms, bathrooms, and corridors. They mount on a wall close to the floor for use as step lights, or they mount higher up a wall to light counters and sinks or distribute light over a wider area.

Mounting Style	Housing Style	Light Color	Max. Fixture Wattage	Lumens	Series	Item No.
Prescolite						
Horizontal	Rectangle Faceplate	Amber	1.7 W	12 lm	NiteWay	**53XY02**
	Rectangle Faceplate	White	1.8 W	18 lm	NiteWay	**53XY01**
Vertical	Rectangle Faceplate	Amber	2 W	30 lm	NiteWay	**53XY04**
	Rectangle Faceplate	White	2 W	30 lm	NiteWay	**53XY03**
Chloride						
Horizontal	Rectangle Faceplate	Amber	3 W	23 lm	WG	**34VE75**
Vertical	Oval Faceplate	Amber	3 W	23 lm	WG	**35YM05**
	Rectangle Faceplate	Amber	3 W	23 lm	WG	**35YM07**
	Oval Faceplate	White	3 W	23 lm	WG	**35YM04**
	Rectangle Faceplate	White	3 W	23 lm	WG	**35YM06**

FEIT ELECTRIC | LIND EQUIPMENT WORK CONFIDENTLY. | LumiCleanse

Portable & Small Space Disinfection & Sanitizing Lighting

These lights provide decontamination of air or surfaces in different parts of a building. UV-C lights inactivate viruses, bacteria, fungi, and other pathogens to help reduce exposure and limit the spread of infections. They are commonly used after standard cleaning in hotel rooms, classrooms, offices, and fitness centers.

UVC Wand 60FE77

UVC LED Light 60FE75

Ultraviolet Germicidal Portable Tower 60YW27

Ultraviolet Germicidal Fixture 60JC41

Lighting Technology	Wavelength	Dose Cycle Time	Overall Reach	Voltage	Safety Features	Brand	Item No.
UVC Wand							
LED	280 nm	30 sec	1 in to 2 in	5 V	Automatically Shuts Off After 5 min, Orientation Sensor Automatically Shuts Off Wand if Flipped 90˚	Feit Electric	**60FE77**
UVC LED Light							
LED	275 nm	22.5 min/5 ft, 54 min/7.5 ft, 6 min/2.5 ft, 85 min/10ft	2.5 ft to 10 ft	120 V	Red Warning LEDs Inform Users When Light Is Energized	Lind Equipment	**60FE75**
Ultraviolet Germicidal Portable Tower							
Mercury Vapor	253.7 nm	120 min, 30 min, 60 min	2000 sq ft	120 V	Integrated Motion Sensor will Detect Any Movement and Immediately Deactivate the Fixture if Someone Mistakenly Walks Into the Space While the Light is On	Lumicleanse	**60YW27**
Ultraviolet Germicidal Fixture							
Mercury Vapor	254 nm	15 min/50 sq ft, 30 min/75 sq ft, 60 min/100 sq ft	Up to 300 sq ft	120 V	15-Second Delay Before UV-C1 Light Starts, Integrated Motion Sensor Automatically Shuts Off The Light If People or Pets Enter The Space, Up to 25 ft Away, While The Light Is In Operation	Lumicleanse	**60JC41**

AIM
35FT75

Outpatient
35FT95

burton®

Examination Lights

AIM—Designed with a unique, Y-shaped head that facilitates placement of the light around the physician's head.

Cool Spot—Provides pure, white light along with a no-drift arm, high-intensity setting, and variable spot-sized control.

Nova—Produce a cool light while delivering a uniform beam pattern, and higher illumination levels. Designed with K-arm and dual handles that make it easy to position the light.

Outpatient—Low-maintenance light is for most examination applications in the hospital, physician's office, surgery center, and veterinary field.

Super Exam—Controls are mounted directly on the handle, so you can access all light functions and simultaneously aim the light where you need it. The drift-free spring-loaded arm helps make sure that the light stays put. A recessed light source helps reduce glare.

Carelite—A dimmable light source that is recessed inside the light head to reduce glare and minimize disruption to other patients. An integrated observation light lets nurses check on patients without disturbing them.

Mounting	Includes	Watts	Lamp Type	Color Temp.	Light Output	Arm Length	Overall Reach	Item No.
Examination Light								
AIM LED								
Ceiling	HD and Ceiling Mount	84	LED	4300K	45,000 Lux @ 40 in	63 in	63 in	**35FT75**
Dual Ceiling	Double HD and Ceiling Mount	84	LED	4300K	45,000 Lux @ 40 in	63 in	63 in	**35FT76**
Wall	HD and Wall Mount	84	LED	4300K	45,000 Lux @ 40 in	63 in	63 in	**35FT77**
CoolSpot II								
Ceiling	HD and Ceiling Mount	150	Halogen	4300K	126,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV08**
	HD and Single Trac	150	Halogen	4300K	126,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV11**
Dual Ceiling	HD and Double Ceiling Mount	150	Halogen	4300K	126,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV09**
	HD and Double Trac	150	Halogen	4300K	126,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV12**
Wall	HD and Wall Mount	150	Halogen	4300K	126,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV10**
Nova Exam LED								
Ceiling	HD and Ceiling Mount	Low 8/High 16	LED	4600K	50,000 Lux @ 18 in	45 in	45 in	**35FT74**
Table	FL Base with Upright and Hardware Kit	Low 8/High 16	LED	4600K	50,000 Lux @ 18 in	45 in	45 in	**35FT72**
Wall	Wall Mount with Hardware Kit	Low 8/High 16	LED	4600K	50,000 Lux @ 18 in	45 in	45 in	**35FT73**
Outpatient II								
Ceiling	HD and Single Trac	50	Halogen	3300K	78,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV01**
	HD and Single Trac	50	Halogen	3300K	78,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV04**
Dual Ceiling	HD and Double Trac	50	Halogen	3300K	78,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV02**
	HD and Double Trac	50	Halogen	3300K	78,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV05**
Wall	HD and Wall Mount	50	Halogen	3300K	78,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FV03**
Outpatient LED								
Ceiling	HD and Ceiling Mount	42	LED	3700K	90,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FT95**
Dual Ceiling	Double HD and Ceiling Mount	42	LED	3700K	90,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FT96**
Wall	HD and Wall Mount	42	LED	3700K	90,000 Lux @ 24 in	37 ½ in	37 ½ in	**35FT97**
Super Exam LED								
Ceiling	HD and Ceiling Mount	20	LED	3800K	35,000 Lux @ 39 in	37 in	51 in	**53XL26**
Table	HD and Table Mount	20	LED	3800K	35,000 Lux @ 39 in	37 in	51 in	**53XL25**
Wall	HD and Wall Mount	20	LED	4000K	35,000 Lux @ 39 in	37 in	51 in	**53XL24**
Task Light								
Carelite LED								
Table	Mounting Hardware	9	LED	2700K	2000 Lux @ 24 in	41 in	53 in	**53XL21**
Wall	Mounting Hardware	9	LED	3000K	2000 Lux @ 24 in	41 in	53 in	**53XL22**

Item	Type	Item No.
AIM Accessories		
Handle Cover	Disposable	**35FV47**
Replacement Handle	For AIM Lights	**35FV45**
Drop Tube	42 in for AIM Lights	**35FV46**
Outpatient II Accessories		
Drop Tube	Straight	**35FV43**
	Straight	**35FV44**
Replacement Handle	Outpatient II	**35FV07**
Halogen Light Bulb	—	**35FV06**
Cool Spot Accessories		
Replacement Handle	CoolSpot II	**35FV14**
Halogen Light Bulb	—	**35FV13**

35FT57

burton®

Floor Stand Exam and Surgical Lights

Exam Lights—35FT57 offers 2 illumination levels. Dual handles and K-arm allows for smooth positioning of light. 35FT58 has a Y-shaped design helping to minimize obstruction of light. Multiple reflectors can be tilted to adjust the lighting position. 35FT65 helps provide shadow-free operation.

Surgical Lights—Adjustable focus offers maximum intensity with minimal heat output. Flexible arm with extensive reach allows for a greater range of motion. Include footswitch, locking casters, hardware kit, and cord wrap.

Task Light—Dimmable light source is recessed inside the light head to reduce glare and minimize disruption to other patients. Integrated observation light lets nurses check on patients without disturbing them while they are sleeping.

Color Temp.	Light Output	Overall Reach	Watts	Item No.
Examination Light				
Halogen				
3100K	45,000 Lux @ 40 in	31 in	45	**35FT59**
3200K	45,000 Lux @ 18 in	35 ½ in	35	**35FT63**
3200K	45,000 Lux @ 18 in	35 ½ in	35	**35FT64**
3300K	86,000 Lux @ 24 in	37 ½ in	50	**35FT66**
3400K	56,000 Lux @ 18 in	28 in	20	**35FT62**
4300K	86,000 Lux @ 24 in	37 ½ in	150	**35FT67**
LED				
3700K	90,000 Lux @ 24 in	37 ½ in	42	**35FT65**
4000K	35,000 Lux @ 39 in	51 in	20	**53XL23**
4300K	45,000 Lux @ 40 in	63 in	45	**35FT58**
4600K	High 50,000 Lux @ 18 in in, Low 25,000 Lux @ 18	45 in	Low 8/ High 16	**35FT57**
Surgical Light				
Halogen				
3500K	63,000 Lux @ 40 in	31 in	45	**35FT68**
3700K	90,000 Lux @ 40 in	63 in	35	**35FT69**
Task Light				
LED				
3000K	2000 Lux @ 24 in	53 in	9	**53XL20**

Surface-Mount LED Downlights

Attach to ceiling surfaces and give the look and lighting effect of can lights where access above the ceiling is limited. For use in multi-family housing, hospitality, retail, office, and healthcare applications.

Low-Profile Round—Slimmer than standard downlights and can be set closer to ceilings for an even more subtle look. Provide a softer look than square downlights and eliminate having to align the fixture edges with adjacent units.

Low-Profile Square—Models are slimmer than standard downlights and can be set closer for an even more subtle look. Have straight edges with squared corners for a more upscale look than round downlights. Their square shape requires alignment with adjacent units to maintain a consistent look.

Standard Round—Standard, uniform height where a lower profile or tapered look isn't desired. Provide a softer look than square downlights and eliminates the need to align the fixture edges with adjacent units.

Standard Square—Have standard height for installations where a lower profile isn't required. Have straight edges with squared corners for a more upscale look than round models. Square shape requires alignment with adjacent units to maintain a consistent look within a space.

Tapered Round—Lights get thinner toward the edges for a more decorative look than standard or low-profile models that have a uniform height. Provide a softer look than square downlights and eliminate the need to align the fixture edges with adjacent units.

Standard Round, Color Temp. Selectable—Choose among 3 light output options: 3000K, 4000K, or 5000K by using a toggle switch on the back of the fixture. The integrated accent/nightlight delivers an extra-soft amber glow to add accent lighting to any room. Toggle the wall switch from On/Off/On within 3 sec. to change between the area light and accent/nightlight mode.

45MX66

45MX54

457L55

792V94

792KL8

Nominal Size	Housing Color	Color Index	Overall Height	Voltage	Series	2700K Light Output	2700K Item No.	3000K Light Output	3000K Item No.	3500K Light Output	3500K Item No.	4000K Light Output	4000K Item No.
Low-Profile Round Surface-Mount Downlights													
Juno Lighting													
5 in	White	90	¾ in	120/277V AC	JSF	—	—	700 lm	**457L51**	—	—	700 lm	**457L52**
8 in	White	90	¾ in	120/277V AC	JSF	—	—	1,000 lm	**457L53**	—	—	1,000 lm	**457L54**
Lightolier													
8 in	White	80	⅝ in	120V AC	SlimSurface	1,000 lm	**45MX66**	1,000 lm	**45MX67**	—	—	—	—
	White	90	⅝ in	120V AC	SlimSurface	1,000 lm	**45MX69**	—	—	—	—	—	—
7 in	Silver	80	⅝ in	120V AC	SlimSurface	1,000 lm	**210N09**	1,000 lm	**210N10**	1,000 lm	**210N22**	—	—
	Silver	90	⅝ in	120V AC	SlimSurface	1,000 lm	**210N11**	—	—	—	—	—	—
5 in	Black	90	⅝ in	120V AC	SlimSurface	650 lm	**210N18**	—	—	—	—	—	—
	Silver	80	⅝ in	120V AC	SlimSurface	650 lm	**210N03**	650 lm	**210N04**	—	—	—	—
	Silver	90	⅝ in	120V AC	SlimSurface	650 lm	**210N05**	—	—	—	—	—	—
	White	80	⅝ in	120V AC	SlimSurface	650 lm	**45MX58**	650 lm	**35KF04**	—	—	—	—
	White	90	⅝ in	120V AC	SlimSurface	650 lm	**45MX61**	—	—	—	—	—	—
	White	80	⅝ in	120/277V AC	SlimSurface	—	—	650 lm	**210N12**	650 lm	**210N13**	—	—
7 in	White	80	⅝ in	120/277V AC	SlimSurface	—	—	1,000 lm	**210N14**	1,000 lm	**210N15**	1,000 lm	**210N16**
5 in	Black	80	⅝ in	120V AC	SlimSurface	—	—	650 lm	**210N17**	—	—	—	—
7 in	Black	80	⅝ in	120V AC	SlimSurface	—	—	1,000 lm	**210N21**	—	—	1,000 lm	**210N24**
	White	80	⅝ in	120V AC	SlimSurface	—	—	—	—	—	—	1,000 lm	**210N23**
Low-Profile Square Surface-Mount Downlights													
Juno Lighting													
5 in	White	90	¾ in	120/277V AC	JSFSQ	—	—	700 lm	**457L59**	—	—	700 lm	**457L60**
8 in	White	90	¾ in	120/277V AC	JSFSQ	—	—	1,000 lm	**457L61**	—	—	1,000 lm	**457L62**
Lightolier													
4 in	Silver	80	⅝ in	120V AC	SlimSurface	650 lm	**210M99**	650 lm	**210N01**	—	—	—	—
	Silver	90	⅝ in	120V AC	SlimSurface	650 lm	**210N02**	—	—	—	—	—	—
6 in	Silver	80	⅝ in	120V AC	SlimSurface	1,000 lm	**210N06**	—	—	—	—	—	—
	Silver	90	⅝ in	120V AC	SlimSurface	1,000 lm	**210N08**	—	—	—	—	—	—
4 in	White	80	⅝ in	120/277V AC	SlimSurface	650 lm	**210N25**	650 lm	**210N28**	—	—	—	—
	Silver	80	⅝ in	120/277V AC	SlimSurface	650 lm	**210N26**	—	—	650 lm	**210N32**	650 lm	**210N35**
	Black	80	⅝ in	120 to 277V AC	SlimSurface	650 lm	**210N27**	650 lm	**210N30**	650 lm	**210N33**	650 lm	**210N36**
	White	90	⅝ in	120/277V AC	SlimSurface	650 lm	**210N37**	—	—	—	—	—	—
	White	80	⅝ in	120V AC	SlimSurface	650 lm	**45MX54**	650 lm	**45MX55**	—	—	—	—
	White	90	⅝ in	120V AC	SlimSurface	650 lm	**45MX57**	—	—	—	—	—	—
6 in	White	80	⅝ in	120V AC	SlimSurface	1,000 lm	**45MX62**	1,000 lm	**45MX63**	1,000 lm	**210N20**	—	—
	White	90	⅝ in	120V AC	SlimSurface	1,000 lm	**45MX65**	—	—	—	—	—	—
	Black	80	⅝ in	120V AC	SlimSurface	—	—	1,000 lm	**210N19**	—	—	—	—
4 in	Silver	80	⅝ in	120 to 277V AC	SlimSurface	—	—	650 lm	**210N29**	—	—	—	—
	White	80	⅝ in	120 to 277V AC	SlimSurface	—	—	—	—	—	—	650 lm	**210N34**
Standard Round Surface-Mount Downlights													
Juno Lighting													
11 in	White	90	⅞ in	120/277V AC	JSF	—	—	1,300 lm	**457L55**	—	—	1,300 lm	**457L56**
13 in	White	90	⅞ in	120/277V AC	JSF	—	—	1,800 lm	**457L57**	—	—	1,800 lm	**457L58**
Lightolier													
5 in	White	90	1 in	120V AC	SD	—	—	700 lm	**55MR23**	—	—	—	—
7 in	White	90	1 in	120V AC	SD	—	—	1,000 lm	**55MR24**	—	—	—	—
Standard Square Surface-Mount Downlights													
Juno Lighting													
12 in	White	90	⅞ in	120/277V AC	JSFSQ	—	—	1,300 lm	**457L63**	—	—	1,300 lm	**457L64**
14 in	White	90	⅞ in	120/277V AC	JSFSQ	—	—	1,800 lm	**457L65**	—	—	1,800 lm	**457L66**
Tapered Round Surface-Mount Downlights													
Lithonia Lighting													
8 in	White	90	1 ⅛ in	120V AC	SlimBasics	—	—	990 lm	**792V94**	—	—	—	—
7 in	White	90	1 ⅛ in	120V AC	SlimBasics	—	—	750 lm	**792V95**	—	—	—	—

Nominal Size	Color Temp.	Light Output	Color Index	Overall Height	Series	Item No.
Standard Round Surface-Mount Downlights Color Temp. Selectable						
ETI						
8 in	3000K, 4000K, 5000K	800 lm	80	2 ½ in	Flushmount	**792KL7**
		800 lm	80	2 ½ in	Flushmount	**792KL8**
		800 lm	80	2 ½ in	Flushmount	**792KL9**
11 in		900 lm	80	1 ¾ in	Flushmount	**792KM0**
		900 lm	80	1 ¾ in	Flushmount	**792KM1**
		900 lm	80	1 ¾ in	Flushmount	**792KM2**
13 in		1,350 lm	80	1 ½ in	Flushmount	**792KL2**

Scan. Order. Done.
Details on page A1.

792V93

792KL3

60TZ58

788W40

Canless LED Downlights

Models with multiple color temperature settings have a switch for choosing the hue or tone of light desired.

Low-Profile—Extra-slim body fits into ceilings with shallow plenums or barriers where standard canless fixtures won't fit.

Low-Profile with Nighlight—Have the same features as low-profile models and add an integrated nightlight that emits a soft glow for nighttime illumination.

Standard-Profile—They are taller than low-profile fixtures but more compact than can lights.

Nom. Size	Color Temp.	Light Output	Color Index	Maximum Wattage	Voltage	Overall Height	Item No.
Low-Profile Canless Downlights							
Juno Lighting							
4 in	3000K	580 lm	90	8.1 W	120 V AC	1 ⅛ in	**792V93**
6 in	2700K, 3000K, 3500K, 4000K, 5000K	950 lm	90	13 W	120 V AC	1 ⅜ in	**792V91**
		970 lm	90	13 W	120 V AC	1 3/16 in	**792V90**
	3000K	790 lm	90	11.2 W	120 V AC	1 ⅛ in	**792V92**
Lightolier							
4 in	2700K, 3000K, 4000K, 5000K	700 lm	90	11 W	120 V AC	⅛ in	**55MR28**
6 in		900 lm	90	13 W	120 V AC	⅛ in	**55MR29**
Lithonia Lighting							
6 in	2700K, 3000K, 3500K	1,040 lm, 1,110 lm, 1,150 lm	90	14 W	120 V AC	1 ⅛ in	**61KA42**
	3000K, 4000K, 5000K	1,090 lm, 1,120 lm, 1,190 lm	90	14 W	120 V AC	1 ⅛ in	**61KA41**
Sylvania							
3 in	2700K	500 lm	90	8 W	120 V AC	⅞ in	**788W66**
4 in		600 lm	90	8.5 W	120 to 277 V AC	¾ in	**788W64**
		800 lm	90	13 W	120 V AC	⅞ in	**788W67**
6 in		1,100 lm	90	13.5 W	120 to 277 V AC	¾ in	**788W65**
		1,200 lm	90	16 W	120 V AC	⅞ in	**788W68**
8 in		1,600 lm	90	20 W	120 V AC	⅞ in	**788W69**
Low-Profile Canless Downlights with Nighlight							
ETI							
4 in	2700K, 3000K, 3500K, 4000K, 5000K	650 lm	90	9.64 W	120 V AC	1 ⅛ in	**792KL3**
6 in		900 lm	90	14.3 W	120 V AC	1 ⅛ in	**792KL4**
Standard-Profile Canless Downlights							
Lightolier							
4 in	3000K, 3500K, 4000K	500 lm, 700 lm, 1,000 lm	90	12 W	120 to 347 V AC	4 ¼ in	**60TZ59**
6 in		700 lm, 1,000 lm, 1,500 lm	90	17 W	120 to 347 V AC	5 ¼ in	**60TZ60**
8 in		1,000 lm, 1,500 lm, 2,000 lm	90	21 W	120 to 347 V AC	5 ⅞ in	**60TZ61**
10 in		2,000 lm, 2,500 lm, 3,000 lm	90	32 W	120 to 347 V AC	6 ⅜ in	**60TZ58**
Lumination							
6 in	3000K	1,000 lm	82	13 W	120 to 277 V AC	4 ½ in	**52WX60**
	3500K	1,000 lm	82	13 W	120 to 277 V AC	4 ½ in	**52WX61**
		1,800 lm	82	22 W	120 to 277 V AC	4 ½ in	**52WX64**
	4000K	1,000 lm	82	13 W	120 to 277 V AC	4 ½ in	**52WX62**
		1,800 lm	82	22 W	120 to 277 V AC	4 ½ in	**52WX65**
8 in	3000K	1,000 lm	82	13 W	120 to 277 V AC	5 ⅛ in	**52WX66**
		1,800 lm	82	22 W	120 to 277 V AC	5 ⅛ in	**48TK69**
		3,000 lm	82	35 W	120 to 277 V AC	5 ⅛ in	**48TK75**
	3500K	1,000 lm	82	13 W	120 to 277 V AC	5 ⅛ in	**52WX67**
		1,800 lm	82	22 W	120 to 277 V AC	5 ⅛ in	**48TK70**
		3,000 lm	82	35 W	120 to 277 V AC	5 ⅛ in	**48TK76**
	4000K	1,000 lm	82	13 W	120 to 277 V AC	5 ⅛ in	**52WX68**
		1,800 lm	82	22 W	120 to 277 V AC	5 ⅛ in	**52WX69**
		3,000 lm	82	35 W	120 to 277 V AC	5 ⅛ in	**48TK77**
Sylvania							
3 in	5000K	500 lm	90	6 W	120 to 277 V AC	2 ½ in	**788W41**
		500 lm	90	6 W	120 V AC	2 ½ in	**788W45**
4 in	2700K	700 lm	90	—	—	—	**788W34**
	3000K	700 lm	90	9 W	120 to 277 V AC	—	**788W35**
	5000K	900 lm	90	10.5 W	120 to 277 V AC	2 ⅞ in	**788W42**
		900 lm	90	10.5 W	120 V AC	2 ⅞ in	**788W46**
6 in	2700K	900 lm	90	—	120 to 277 V AC	4 in	**788W36**
	3000K	900 lm	90	11 W	120 to 277 V AC	4 in	**788W37**
		2,000 lm	90	24 W	120 to 277 V AC	4 in	**788W38**
	5000K	1,100 lm	90	12 W	120 to 277 V AC	7 ⅛ in	**788W43**
		1,100 lm	90	12 W	120 V AC	7 ⅛ in	**788W47**
8 in	3000K	3,300 lm	90	35 W	120 to 277 V AC	4 ⅜ in	**788W39**
	5000K	5,000 lm	90	51 W	120 to 277 V AC	8 1/16 in	**788W44**
10 in	3000K	4,000 lm	90	43 W	120 to 277 V AC	4 ⅜ in	**788W40**

462D60

49WJ33

Recessed Can LED Retrofit Trim Modules

Models with multiple color temperature settings have a switch for choosing the hue or tone of light desired.

Universal Trim Modules—Used to convert older lighting technologies to LED but also plug into compatible LED-ready housings.

Trim Modules with Speakers—An integrated speaker allows wireless streaming via Bluetooth from a mobile device.

Trim Modules with Nightlight—A nightlight along the edge of the module emits a soft glow for nighttime illumination.

481R24

788W26

454X36

792KL6

Nom. Size	Color Temp.	Color Index	LED Replacement For	Overall Height	Light Output	Series	Item No.
Universal Trim Modules							
Lightolier							
4 in	3000K	90	65W INC/16W CFL	5 ⅝ in	900 lm	RD4R	**792HR2**
5 in, 6 in		90	65W INC/16W CFL	7 ⅜ in	1,400 lm	RD5R	**792HR3**
Lithonia Lighting							
5 in	3000K	83	65W INC/16W CFL	3 11/16 in	620 lm	5BPMW	**22CK55**
6 in	2700K	90	65W INC/16W CFL	2 ¾ in	750 lm	65BEMW	**462D59**
	2700K, 3000K, 3500K, 4000K, 5000K	90	75W INC/26W CFL	3 11/16 in	900 lm	E Series	**792V86**
		90	120W INC	3 11/16 in	1,200 lm	E Series	**792V87**
	3000K	83	65W INC/16W CFL	4 ½ in	620 lm	6G1	**22CK57**
		90	65W INC/16W CFL	2 ¾ in	835 lm	65BEMW	**462D60**
	4000K	90	65W INC/16W CFL	2 ¾ in	845 lm	65BEMW	**792V85**
LumaPro							
4 in	2700K	80	60W INC	5 ⅜ in	712 lm	—	**49WJ32**
6 in		80	75W INC/26W CFL	7 ½ in	880 lm	—	**49WJ33**
Lumination							
4 in	3000K	80	90W INC	2 7/16 in	1,000 lm	RS	**481R28**
6 in	2700K	80	65W INC/16W CFL	2 7/16 in	700 lm	RS	**481R24**
		80	90W INC	2 7/16 in	1,000 lm	RS	**481R27**
	3000K	80	65W INC/16W CFL	2 7/16 in	700 lm	RS	**481R25**
	4000K	80	65W INC/16W CFL	2 7/16 in	700 lm	RS	**481R26**
Sylvania							
4 in	2700K	92	65W INC/16W CFL	2 ½ in	675 lm	Hi-PerformanceLED RT	**788W12**
		80	65W INC/16W CFL	2 ½ in	650 lm	UltraLED RT	**788W27**
		90	65W INC/16W CFL	2 11/16 in	650 lm	Hi-PerformanceLED RT	**788W30**
		80	50W	2 11/16 in	550 lm	ValueLED RT	**788W48**
		80	65W INC/16W CFL	2 ½ in	650 lm	UltraLED RT	**788W56**
		90	65W INC/16W CFL	2 11/16 in	650 lm	Hi-PerformanceLED RT	**788W60**
	3000K	92	65W INC/16W CFL	2 ½ in	675 lm	Hi-PerformanceLED RT	**788W13**
		80	50W	2 11/16 in	550 lm	ValueLED RT	**788W49**
	4000K	92	65W INC/16W CFL	2 ½ in	675 lm	Hi-PerformanceLED RT	**788W14**
		80	50W	2 11/16 in	550 lm	ValueLED RT	**788W50**
	5000K	92	65W INC/16W CFL	2 ½ in	675 lm	Hi-PerformanceLED RT	**788W15**
		80	50W	2 11/16 in	550 lm	ValueLED RT	**788W51**
5 in, 6 in	2700K	92	65W INC/16W CFL	2 9/16 in	725 lm	Hi-PerformanceLED RT	**788W16**
		92	75W INC/26W CFL	2 9/16 in	900 lm	Hi-PerformanceLED RT	**788W20**
		80	65W INC/16W CFL	2 11/16 in	650 lm	UltraLED RT	**788W28**
		80	100W	2 ¾ in	1,200 lm	UltraLED RT	**788W29**
		90	65W INC/16W CFL	2 11/16 in	725 lm	Hi-PerformanceLED RT	**788W31**
		90	75W INC/26W CFL	2 11/16 in	900 lm	Hi-PerformanceLED RT	**788W32**
		90	100W	2 11/16 in	1,200 lm	Hi-PerformanceLED RT	**788W33**
		80	65W INC/16W CFL	2 ¾ in	625 lm	ValueLED RT	**788W52**
		80	65W INC/16W CFL	2 11/16 in	725 lm	UltraLED RT	**788W57**
		80	75W INC/26W CFL	2 11/16 in	900 lm	UltraLED RT	**788W58**
		80	100W	2 11/16 in	1,200 lm	UltraLED RT	**788W59**
		90	65W INC/16W CFL	2 11/16 in	725 lm	Hi-PerformanceLED RT	**788W61**
		90	75W INC/26W CFL	2 11/16 in	900 lm	Hi-PerformanceLED RT	**788W62**
		90	100W	2 11/16 in	1,200 lm	Hi-PerformanceLED RT	**788W63**
	3000K	92	65W INC/16W CFL	2 9/16 in	725 lm	Hi-PerformanceLED RT	**788W17**
		92	75W INC/26W CFL	2 9/16 in	900 lm	Hi-PerformanceLED RT	**788W21**
		92	100W	2 9/16 in	1,200 lm	Hi-PerformanceLED RT	**788W25**
		80	65W INC/16W CFL	2 ¾ in	625 lm	ValueLED RT	**788W53**
	4000K	92	65W INC/16W CFL	2 9/16 in	725 lm	Hi-PerformanceLED RT	**788W18**
		92	75W INC/26W CFL	2 9/16 in	900 lm	Hi-PerformanceLED RT	**788W22**
		80	65W INC/16W CFL	2 ¾ in	625 lm	ValueLED RT	**788W54**
	5000K	92	75W INC/26W CFL	2 9/16 in	725 lm	Hi-PerformanceLED RT	**788W19**
		92	75W INC/26W CFL	2 9/16 in	900 lm	Hi-PerformanceLED RT	**788W23**
		92	100W	2 9/16 in	1,200 lm	Hi-PerformanceLED RT	**788W26**
		80	65W INC/16W CFL	2 ¾ in	625 lm	ValueLED RT	**788W55**
6 in	3000K	90	75W INC/26W CFL	6 in	900 lm	—	**60UA60**
Trim Modules with Speakers							
Lithonia Lighting							
6 in	2700K	90	65W INC/16W CFL	5 in	700 lm	6SL	**454X36**
	3000K	90	65W INC/16W CFL	5 in	700 lm	6SL	**454X37**
	4000K	90	65W INC/16W CFL	5 in	700 lm	6SL	**454X38**
Trim Modules with Nightlight							
ETI							
4 in	2700K, 3000K, 3500K, 4000K, 5000K	90	65W INC/16W CFL	3 1/16 in	625 lm	—	**792KL5**
6 in		90	65W INC/16W CFL	3 ⅜ in	670 lm	—	**792KL6**

LED Trim Modules for Downlight Housings

These trim modules add a light source, trim ring, and baffle to a compatible downlight housing. They plug directly into a matching connector on an LED-ready housing. Their integrated driver regulates power to the module. Suitable for use in healthcare, hospitality, multifamily housing, office, and retail applications.

45AZ23

45AZ11

210M93

Nom. Size	LED Replacement For	Color Index	Overall Height	Socket Type	Reflector or Baffle Color	Compliance Type	Series	2700K Light Output	2700K Item No.	3000K Light Output	3000K Item No.	3500K Light Output	3500K Item No.	4000K Light Output	4000K Item No.
LED Trim Modules for Downlight Housings															
Juno Lighting															
4 in	50W INC	90	2 in	Medium	White Baffle	CA Title 20, CA Title 24, JA8	4RLD	600 lm	**45AZ26**	600 lm	**45AZ46**	—	—	—	—
5 in	75W INC/26W CFL	90	2 ¼ in	Medium	White Baffle	CA Title 20, CA Title 24, JA8	5RLD	700 lm	**45AZ29**	700 lm	**45AZ23**	—	—	—	—
6 in	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	Clear Reflector	CA Title 24	J6RL	733 lm	**45AZ17**	—	—	1,038 lm	**45AZ41**	1,053 lm	**45AZ49**
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	White Reflector	CA Title 24	J6RL	600 lm	**45AZ19**	600 lm	**45AZ55**	900 lm	**45AZ15**	900 lm	**45AZ52**
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	White Baffle	CA Title 24	J6RL	688 lm	**45AZ33**	699 lm	**45AZ11**	976 lm	**45AZ63**	741 lm	**45AZ22**
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	Black Baffle	CA Title 24	J6RL	900 lm	**45AZ39**	—	—	—	—	—	—
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	White Baffle	CA Title 24	J6RL	929 lm	**45AZ58**	—	—	—	—	990 lm	**45AZ45**
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	Haze Cone Reflector	CA Title 24	J6RL	600 lm	**45AZ60**	600 lm	**45AZ43**	999 lm	**45AZ14**	600 lm	**45AZ08**
	65W INC/16W CFL	90	2 ½ in	Medium	White Baffle	CA Title 20, CA Title 24, JA8	6RLD	700 lm	**45AZ69**	700 lm	**45AZ57**	—	—	—	—
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	Wheat Reflector	CA Title 24	J6RL	600 lm	**45AZ74**	—	—	—	—	—	—
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	White Reflector	CA Title 24	J6RL	—	—	—	—	—	—	600 lm	**45AZ59**
	65W INC/16W CFL	90	3 ⅛ in	Integrated LED	Clear Reflector	CA Title 24	J6RL	—	—	—	—	—	—	600 lm	**45AZ62**
	75W INC/26W CFL	90	3 ¼ in	Medium	White Baffle	CA Title 20, CA Title 24, JA8	6RDL	1,000 lm	**792V88**	1,000 lm	**792V89**	—	—	—	—
Lightolier															
4 in	65W INC/16W CFL	80	1 13/16 in	—	No Reflector or Baffle	—	L4R	650 lm	**792HR9**	650 lm	**792HT0**	—	—	—	—
	65W INC/16W CFL	80	1 13/16 in	—	No Reflector or Baffle	—	L4R	1,000 lm	**792HT2**	1,000 lm	**792HT1**	—	—	—	—
	65W INC/16W CFL	80	3 5/16 in	E26 Medium	White	CA Title 24	CP4	—	—	750 lm	**210M93**	—	—	850 lm	**210M94**
	65W INC/16W CFL	80	3 5/16 in	E26	White Baffle	CA Title 24	CP4	—	—	800 lm	**46ML15**	—	—	—	—
5 in	65W INC/16W CFL	80	Not Applicable	—	No Reflector or Baffle	—	L5R	1,000 lm	**792HU1**	1,500 lm	**792HT9**	1,500 lm	**792HU0**	—	—
	65W INC/16W CFL	80	Not Applicable	—	No Reflector or Baffle	—	L5R	—	—	1,000 lm	**792HU2**	1,000 lm	**792HU3**	—	—
	—	90	3 5/16 in	E26 Medium	White	CA Title 24	CP5	—	—	900 lm	**210M95**	—	—	—	—
	—	80	3 5/16 in	E26 Medium	White	Not Rated	CP5	—	—	950 lm	**210M98**	—	—	1,000 lm	**210M96**
6 in	(2) 32W CFL, (2) 42W CFL	80	Not Applicable	—	No Reflector or Baffle	—	L6R	—	—	2,000 lm	**792HV1**	2,000 lm	**792HV2**	—	—
	(2) 32W CFL, (2) 42W CFL	80	24 in	—	No Reflector or Baffle	—	L6R	—	—	1,500 lm	**792HV3**	—	—	—	—
	65W INC/16W CFL	80	3 ⅝ in	E26	White Baffle	CA Title 24	CP6	—	—	835 lm	**46ML13**	—	—	—	—
	90W INC/22W CFL	80	3 ⅝ in	E26	White Baffle	CA Title 24	CP6	—	—	1,200 lm	**46ML14**	—	—	—	—
	—	90	3 ⅝ in	E26 Medium	White	CA Title 24	CP6	—	—	1,000 lm	**210M97**	—	—	—	—

Recessed LED Downlight Housings with Integrated Light Source

These lights recess into ceilings and set the edge of the housing flush with the surface for a clean look. Models with multiple color temperature settings have a switch for choosing the desired hue or tone of light. All fixtures are suitable for use in multifamily housing, hospitality, retail, office, and healthcare applications.

Limited Access to Flat Ceilings—Install into existing flat ceilings.

Total Access to Flat Ceilings—Fixtures install into the framing of a new, flat ceiling before drywalling or plastering.

Total Access to Sloped Ceilings—Install into the framing of a new, sloped ceiling before drywalling or plastering. Fixtures direct light downward rather than matching the angle of the housing.

45AX94

61DF38

45AX92

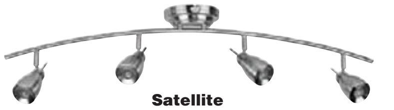
792HR5

Nom. Size	Color Temp.	Light Output	Color Index	Maximum Wattage	Voltage	IC Rating	Airtight	Series	Item No.
Housings for Limited Access to Flat Ceilings									
Juno Lighting									
4 in	3500K	600 lm	90	8.6 W	120 V AC	IC	Yes	IC1RLED	**45AY81**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC1RLED	**45AY91**
	4000K	600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC1RLED	**45AY16**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC1RLED	**45AY87**
5 in	3500K	900 lm	90	11.5 W	120 V AC	IC	Yes	IC20RLED	**45AY27**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC20RLED	**45AY37**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC20RLED	**45AY66**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC20RLED	**45AY80**
	4000K	900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC20RLED	**45AY50**
		900 lm	90	11.5 W	120 V AC	IC	Yes	IC20RLED	**45AY67**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC20RLED	**45AY88**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC20RLED	**45AY93**
6 in	3500K	600 lm	90	8.6 W	120 V AC	IC	Yes	IC22RLED	**45AY49**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC22RLED	**45AY72**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC22RLED	**45AZ04**
		900 lm	90	11.5 W	120 V AC	IC	Yes	IC22RLED	**45AZ06**
	4000K	900 lm	90	11.5 W	120 V AC	IC	Yes	IC22RLED	**45AX89**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC22RLED	**45AX94**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC22RLED	**45AY55**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC22RLED	**45AY69**
Lightolier									
4 in	2700K, 3000K, 3500K, 4000K	1,000 lm	80, 90	11 W	120 V AC	IC	Yes	L4R	**792HR4**
5 in		1,000 lm	80, 90	12 W	120 V AC	IC	Yes	L5R	**792HT8**
6 in		2,000 lm	80, 90	19 W	120 V AC	IC	Yes	L6R	**792HU6**
Lithonia Lighting									
6 in	3000K, 3500K,	500 lm, 750 lm, 1,000 lm	80	13 W	120 to 277 V AC	IC	No	LBR6	**61DF38**
	4000K, 5000K	500 lm, 750 lm, 1,000 lm	80	13 W	120 to 277 V AC	IC	No	LBR6	**61DF39**
Housings for Total Access to Flat Ceilings									
Juno Lighting									
4 in	3500K	600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC1LED	**45AX67**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC1LED	**45AY11**
	4000K	600 lm	90	8.6 W	120 V AC	IC	Yes	IC1LED	**45AY06**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC1LED	**45AY12**
5 in	3500K	900 lm	90	11.5 W	120 V AC	IC	Yes	IC20LED	**45AX92**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC20LED	**45AY02**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC20LED	**45AY04**
		1,400 lm	90	16.3 W	120 to 277 V AC	Non-IC	No	TC20LED	**45AY08**
	4000K	900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC20LED	**45AY45**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC20LED	**45AX72**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC20LED	**45AY13**
		900 lm	90	16.9 W	120 to 277 V AC	Non-IC	No	TC20LED	**45AY22**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC20LED	**45AY46**
		900 lm	90	11.5 W	120 V AC	IC	Yes	IC20LED	**45AY82**
6 in	3500K	900 lm	90	11.5 W	120 V AC	IC	Yes	IC22LED	**45AX62**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC22LED	**45AY01**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC22LED	**45AY32**
		900 lm	90	16.9 W	120 to 277 V AC	Non-IC	No	TC22LED	**45AY51**
		1,400 lm	90	16.3 W	120 to 277 V AC	Non-IC	No	TC22LED	**45AY52**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC22LED	**45AY76**
	4000K	900 lm	90	16.9 W	120 to 277 V AC	Non-IC	No	TC22LED	**45AX74**
		900 lm	90	11.5 W	120 V AC	IC	Yes	IC22LED	**45AX84**
		1,400 lm	90	16.3 W	120 to 277 V AC	Non-IC	No	TC22LED	**45AX99**
		600 lm	90	8.6 W	120 V AC	IC	Yes	IC22LED	**45AY28**
		900 lm	90	11.8 W	120 to 277 V AC	IC	Yes	IC22LED	**45AY39**
		600 lm	90	8.9 W	120 to 277 V AC	IC	Yes	IC22LED	**45AY54**
Lightolier									
4 in		1,000 lm	80, 90	11 W	120 V AC	IC	Yes	L4R	**792HR5**
		1,000 lm	80, 90	12 W	120/277 V AC	IC	Yes	L4R	**792HR6**
		650 lm	80, 90	8 W	120/277 V AC	IC	Yes	L4R	**792HR7**
		650 lm	80, 90	7 W	120 V AC	IC	Yes	L4R	**792HR8**
5 in	2700K, 3000K, 3500K, 4000K	1,000 lm	80, 90	13 W	120/277 V AC	IC	Yes	L5R	**792HT4**
		1,000 lm	80, 90	12 W	120 V AC	IC	Yes	L5R	**792HT5**
		1,500 lm	80, 90	15 W	120 V AC	IC	Yes	L5R	**792HT6**
		1,500 lm	80, 90	13 W	120/277 V AC	IC	Yes	L5R	**792HT7**
6 in		1,500 lm	80, 90	17 W	120/277 V AC	IC	Yes	L6R	**792HU7**
		1,500 lm	80, 90	16 W	120 V AC	IC	Yes	L6R	**792HU8**
		2,000 lm	80, 90	19 W	120 V AC	IC	Yes	L6R	**792HU9**
		2,000 lm	80, 90	20 W	120/277 V AC	IC	Yes	L6R	**792HV0**
Housings for Total Access to Sloped Ceilings									
Juno Lighting									
6 in	3500K	900 lm	90	15.3 W	120 to 277 V AC	IC	Yes	IC926LED	**45AX85**
		900 lm	90	15.7 W	120 V AC	IC	Yes	IC928LED	**45AY79**
	4000K	900 lm	90	15.7 W	120 V AC	IC	Yes	IC926LED	**45AY94**
		900 lm	90	15.7 W	120 V AC	IC	Yes	IC928LED	**45AY53**
	4100K	900 lm	90	15.7 W	120 V AC	IC	Yes	IC926LED	**45AY36**
		900 lm	90	15.3 W	120 to 277 V AC	IC	Yes	IC926LED	**45AY92**

Core
787KK1

Eva
787KV0

Gage
787KV1



Satellite
787KK3

Fixed Rail LED Lights

- 3000K Color Temp.

Provide the look and lighting effect of standard track lighting without the worry of light head and rail compatibility.

Core Series—Cylinder-style light heads offer a basic head shape with a consistent diameter and flat back for simple lighting designs. The light heads are fixed on a straight rail for a traditional track lighting arrangement.

Eva Series—The curved back of these round-back-style light heads gives them a softer, more contemporary appearance than straight cylinder heads. The light heads are fixed on a straight rail for a traditional track lighting arrangement.

Gage Series—These step-style light heads have a classic look to suit most installations. The straight-rail lights provide a traditional track lighting arrangement while curled-rail lights offer a more decorative appearance and more focused light distribution.

Satellite Series—The ultramodern step-style light heads and arched rail update the classic step-and-straight-rail look for a more dramatic effect.

Track Housing Finish	Overall Length	Light Output	Maximum Wattage	Item No.
Core Series Fixed Rail Lights				
Satin Nickel	36 ⅜ in	1,800 lm, 2,600 lm	26 W	**787KJ9**
Satin Nickel	55 ⅛ in	2,600 lm, 4,000 lm	40 W	**787KK0**
Black	36 ⅜ in	1,800 lm, 2,600 lm	26 W	**787KK1**
Black	55 ⅛ in	2,600 lm, 4,000 lm	40 W	**787KK2**
Eva Series Fixed Rail Lights				
Polished Chrome	29 ⅝ in	1,924 lm, 3,000 lm	30 W	**787KV0**
Gage Series Fixed Rail Lights				
Polished Chrome	29 ⅝ in	1,662 lm, 2,500 lm	27 W	**787KV1**
Polished Chrome	—	1,277 lm, 1,900 lm	21 W	**787KV2**
Satellite Series Fixed Rail Lights				
Satin Nickel	34 15/16 in	1,800 lm	30 W	**787KK3**

Cube Track
45DM78

Cylinder
45DL99

Flared
45DM18

Roundback
45DM74

Spot
45DM26

Step
45DL96

Track Lighting

- Track style: J

Track light heads and pendants fit into track rails to create or modify track lighting systems. They are commonly used in retail, hospitality, and multifamily housing applications. **Cube** fixtures form a compact, square shape for a minimalist yet cutting-edge effect and are for use in small spaces with low ceilings. **Cylinder** heads offer a basic head shape and flat back, while **Flared** have modified step heads with a cone that gradually widens from the base. **Roundback** fixtures have a curved back for a more contemporary appearance than straight cylinder heads. **Spot** heads pivot in a bracket for a greater range of motion than other styles. **Step** fixtures have a stepped cylinder design for a classic look.

Suggested Bulb Type	Base Type	Maximum Wattage	Housing Color	Dia.	Overall Length	Item No.
Cube Track Heads						
GU10, MR16, PAR16	GU10	50 W	Black	2 ¼ in	3 ¼ in	**45DM77**
GU10, MR16, PAR16	GU10	50 W	Bronze	2 ¼ in	3 ¼ in	**45DM78**
GU10, MR16, PAR16	GU10	50 W	White	2 ¼ in	3 ¼ in	**45DM80**
Cylinder Track Heads						
BR30, PAR30L	E26	75 W	White with White Baffle	4 ⅜ in	6 ⅛ in	**45DM01**
PAR20, PAR30	E26	50 W	Black	2 ⅛ in	2 ⅜ in	**45DM30**
PAR20, PAR30	E26	50 W	White	2 ⅛ in	2 ⅜ in	**45DM31**
PAR20, R20	E26	50 W	White with White Baffle	3 ½ in	4 ⅞ in	**45DL99**
Flared Track Heads						
GU10, MR16, PAR16	GU10	50 W	Black	2 13/16 in	3 7/16 in	**45DM81**
GU10, MR16, PAR16	GU10	50 W	Bronze	2 13/16 in	3 7/16 in	**45DM82**
GU10, MR16, PAR16	GU10	50 W	White	2 13/16 in	3 7/16 in	**45DM84**
PAR20	E26	50 W	Black	3 ½ in	3 ⅝ in	**45DM06**
PAR20	E26	50 W	Silver	3 ½ in	3 ⅝ in	**45DM08**
PAR20	E26	50 W	White	3 ½ in	3 ⅝ in	**45DM09**
PAR20	E26	50 W	Black	3 ½ in	3 ¾ in	**45DM18**
PAR20	E26	50 W	Bronze	3 ½ in	3 ¾ in	**45DM19**
PAR20	E26	50 W	Silver	3 ½ in	3 ¾ in	**45DM20**
PAR20	E26	50 W	White	3 ½ in	3 ¾ in	**45DM21**
PAR30	E26	75 W	Black	5 ¼ in	4 ¼ in	**45DM10**
PAR30	E26	75 W	White	5 ¼ in	4 ¼ in	**45DM13**
PAR30	E26	75 W	Black	4 ⅞ in	3 ¾ in	**45DM22**
PAR30	E26	75 W	Bronze	4 ⅞ in	3 ¾ in	**45DM23**
PAR30	E26	75 W	Silver	4 ⅞ in	3 ¾ in	**45DM24**
PAR30	E26	75 W	White	4 ⅞ in	3 ¾ in	**45DM25**
PAR38	E26	120 W	Black	6 in	5 ⅞ in	**45DM14**
PAR38	E26	120 W	White	6 in	5 ⅞ in	**45DM17**
Roundback Track Heads						
BR30, PAR30L	E26	75 W	Black with Black Baffle	4 ⅜ in	6 in	**45DL86**
BR30, PAR30L	E26	75 W	Bronze with Black Baffle	4 ⅜ in	6 in	**45DL87**
BR30, PAR30L	E26	75 W	White with Black Baffle	4 ⅜ in	6 in	**45DL88**
BR30, PAR30L	E26	75 W	White with White Baffle	4 ⅜ in	6 in	**45DL89**
GU10, MR16, PAR16	GU10	50 W	Black	2 ½ in	3 ¾ in	**45DM74**
PAR20, R20	E26	50 W	Black	3 ½ in	5 in	**45DL79**
PAR20, R20	E26	50 W	White	3 ½ in	5 in	**45DL80**
PAR20, R20	E26	50 W	Black with Black Baffle	3 ½ in	5 in	**45DL81**
PAR20, R20	E26	50 W	White with Black Baffle	3 ½ in	5 in	**45DL84**
PAR20, R20	E26	50 W	White with White Baffle	3 ½ in	5 in	**45DL85**

Suggested Bulb Type	Base Type	Maximum Wattage	Housing Color	Dia.	Overall Length	Item No.
Spot Track Heads						
GU10, MR16, PAR16	GU10	50 W	White	2 ⅛ in	2 ½ in	**45DN06**
GU10, MR16, PAR16	GU10	50 W	Black	2 ⅛ in	2 ½ in	**45DN07**
PAR30	E26	75 W	Black	3 ⅞ in	4 ⅜ in	**45DM26**
PAR30	E26	75 W	White	3 ⅞ in	4 ⅜ in	**45DM27**
PAR38	E26	120 W	Black	5 ⅛ in	5 ¾ in	**45DM28**
PAR38	E26	120 W	White	5 ⅛ in	5 ¾ in	**45DM29**
Step Track Heads						
BR30, PAR30L	E26	75 W	Black with Black Baffle	4 ⅜ in	6 in	**45DL96**
BR30, PAR30L	E26	75 W	White with Black Baffle	4 ⅜ in	6 in	**45DL97**
BR30, PAR30L	E26	75 W	White with White Baffle	4 ⅜ in	6 in	**45DL98**
PAR20, R20	E26	50 W	Black	3 ½ in	5 in	**45DL90**
PAR20, R20	E26	50 W	White	3 ½ in	5 in	**45DL91**
PAR20, R20	E26	50 W	Black with Black Baffle	3 ½ in	5 ⅛ in	**45DL92**
PAR20, R20	E26	50 W	White with White Baffle	3 ½ in	5 ⅛ in	**45DL95**

Nominal Track Length	Overall Length	Overall Width	Overall Height	Black Item No.	Silver Item No.	White Item No.
Tracks						
2 ft	19 ⅞ in	1 ⅜ in	½ in	**45DN53**	**45DN55**	**45DN56**
4 ft	43 ⅞ in	1 ⅜ in	½ in	**45DN57**	**45DN59**	**45DN60**
6 ft	67 ⅞ in	1 ⅜ in	½ in	**45DN61**	**45DN63**	**45DN64**
8 ft	91 ⅞ in	1 ⅜ in	½ in	**45DN65**	**45DN67**	**45DN68**

Function	Overall Length	Overall Width	Overall Height	Black Item No.	Silver Item No.	White Item No.
Track Connectors						
Accordion Track Connector	4 ¼ in	1 ⅜ in	⅝ in	**45DN08**	**45DN09**	**45DN10**
Miniature Straight Connector	2 ¼ in	1 ⅜ in	⅝ in	**45DN17**	**45DN18**	**45DN19**
Straight or L-Connector	2 ¾ in	2 ¾ in	⅝ in	**45DN20**	—	**45DN22**
T-Connector	4 ⅛ in	2 ¾ in	⅝ in	**45DN23**	**45DN24**	**45DN25**
Track Dead End	1 in	1 ⅜ in	⅝ in	**45DN26**	**45DN27**	**45DN28**
Track Electrical Feeds						
2-Wire Cord, Switch & Plug Power Feed Connector	3 ¼ in	1 ⅛ in	⅝ in	**45DN14**	**45DN15**	**45DN16**
3-Wire Cord & Plug Power Feed Connector	4 ¼ in	1 ⅜ in	½ in	**45DN44**	**45DN45**	**45DN46**
Conduit End Feed	3 in	1 in	⅝ in	**45DN32**	—	**45DN34**
Conduit End Track Continuation Kit	3 in	1 in	1 in	**45DN50**	**45DN51**	**45DN52**
Outlet Box Power Feed Saddle Connector	4 ½ in	4 ½ in	⅝ in	**45DN29**	**45DN30**	**45DN31**
Power Feed End Connector	3 ⅛ in	1 ⅜ in	⅝ in	**45DN41**	**45DN42**	**45DN43**
Power Feed End Connector with Canopy	4 ¼ in	4 ¼ in	⅝ in	**45DN11**	**45DN12**	**45DN13**
Surface Mount Track Head Adapter	4 ¾ in	4 ¾ in	⅝ in	**45DN47**	**45DN48**	**45DN49**
T-Bar Power Feed End Connector	4 ⅛ in	4 ⅛ in	⅝ in	**45DN35**	**45DN36**	**45DN37**

Decorative LED Ceiling Lights

Fixtures mount to ceiling surfaces and supply illumination and an appealing design for general lighting. They provide architectural interest and a homelike atmosphere in hallways, entryways, and reception areas in retail, hospitality, healthcare, and multifamily housing applications. Lights with multiple color temperature settings have a switch for choosing the hue or tone of light to match surrounding fixtures or suit a room or application.

Archer 787KP0

Ashland 750X09

Duncan 787KM4

Cirrus 787KM9

Carlisle 787KL4

Linear Puff 30YT60

Octavia 787KK5

Round Flush-Mount 400H25

Round Puff 335A84

Saturn 30YT58

Skye 787KN6

Square Flush 400H26

VersiLite 38RV53

Dia.	Overall Height	Housing Color	Light Output	Color Temp.	Maximum Fixture Wattage	Voltage	Dimmable	Emergency Battery Backup	Brand	Item No.
Archer Flush-Mount Lights										
13 in	3 ⅞ in	Black	Not Applicable	Not Applicable	120 W	120V AC	Yes	No	AFX Inc.	**787KP0**
Ashland Flush-Mount Lights										
12 ½ in	3 ½ in	Gray	1,800 lm	3000K, 3500K, 4000K	22 W	120V AC	Yes	No	AFX Inc.	**750X08**
15 in	3 ½ in	Gray	2,500 lm	3000K, 3500K, 4000K	33 W	120V AC	Yes	No	AFX Inc.	**750X09**
20 in	4 ½ in	Gray	3,200 lm	3000K, 3500K, 4000K	46 W	120V AC	Yes	No	AFX Inc.	**750X10**
Carlisle Flush-Mount Lights										
12 in	3 ½ in	Silver	1,200 lm	3000K, 3500K, 4000K	12 W	120V AC	Yes	No	AFX Inc.	**787KL2**
14 in	3 ½ in	Silver	1,200 lm	3000K	13 W	120 to 277V AC	No	No	AFX Inc.	**787KL3**
14 in	5 in	Silver	1,200 lm	3000K	13 W	120 to 277V AC	No	Yes	AFX Inc.	**787KL4**
14 in	3 ½ in	Silver	2,400 lm	3000K	27 W	120 to 277V AC	No	No	AFX Inc.	**787KL5**
14 in	5 in	Silver	2,400 lm	3000K	27 W	120 to 277V AC	No	Yes	AFX Inc.	**787KL6**
14 in	3 ½ in	Silver	2,400 lm	3000K, 3500K, 4000K	27 W	120V AC	Yes	No	AFX Inc.	**787KL7**
14 in	5 in	Silver	2,400 lm	3000K, 3500K, 4000K	27 W	120V AC	No	Yes	AFX Inc.	**787KL8**
18 in	3 ½ in	Silver	2,900 lm	3000K	27 W	120 to 277V AC	No	No	AFX Inc.	**787KL9**
18 in	5 in	Silver	2,900 lm	3000K	27 W	120 to 277V AC	No	Yes	AFX Inc.	**787KM0**
24 in	3 ½ in	Silver	3,100 lm	3000K, 3500K, 4000K	35 W	120V AC	Yes	No	AFX Inc.	**787KM1**
24 in	5 in	Silver	3,100 lm	3000K, 3500K, 4000K	35 W	120V AC	No	Yes	AFX Inc.	**787KM2**
Cirrus Flush-Mount Lights										
11 in	3 in	White	1,600 lm	3000K, 3500K, 4000K	17 W	120V AC	Yes	No	AFX Inc.	**787KM7**
14 in	3 in	White	1,700 lm	3000K	17 W	120 to 277V AC	No	No	AFX Inc.	**750Y17**
14 in	3 in	White	3,400 lm	3000K	34 W	120 to 277V AC	No	No	AFX Inc.	**750Y18**
14 in	4 ½ in	White	1,700 lm	3000K	17 W	120 to 277V AC	No	Yes	AFX Inc.	**787KM8**
14 in	3 in	White	2,400 lm	3000K, 3500K, 4000K	27 W	120V AC	Yes	No	AFX Inc.	**787KM9**
14 in	4 ½ in	White	2,400 lm	3000K, 3500K, 4000K	27 W	120V AC	No	Yes	AFX Inc.	**787KN0**
14 in	4 ½ in	White	3,400 lm	3000K	34 W	120 to 277V AC	No	Yes	AFX Inc.	**787KN1**
19 in	3 in	White	3,100 lm	3000K, 3500K, 4000K	35 W	120V AC	Yes	No	AFX Inc.	**787KN2**
19 in	4 ½ in	White	3,100 lm	3000K, 3500K, 4000K	35 W	120V AC	No	Yes	AFX Inc.	**787KN3**
Duncan Flush-Mount Lights										
15 ½ in	4 in	Black/Gold	2,500 lm	2700K, 3000K, 3500K, 4000K, 5000K	26 W	120 to 277V AC	Yes	No	AFX Inc.	**787KM3**
15 ½ in	4 in	Black/White	2,500 lm	2700K, 3000K, 3500K, 4000K, 5000K	26 W	120 to 277V AC	Yes	No	AFX Inc.	**787KM4**
19 ½ in	5 in	Black/Gold	4,000 lm	2700K, 3000K, 3500K, 4000K, 5000K	40 W	120 to 277V AC	Yes	No	AFX Inc.	**787KM5**
19 ½ in	5 in	Black/White	4,000 lm	2700K, 3000K, 3500K, 4000K, 5000K	40 W	120 to 277V AC	Yes	No	AFX Inc.	**787KM6**
Linear Puff Flush-Mount Lights										
Not Applicable	3 ¼ in	White	2,000 lm	4000K	35 W	120V AC	Yes	No	Lithonia Lighting	**30YT60**
Octavia Flush-Mount Lights										
11 ⅝ in	3 in	Silver	1,800 lm	3000K, 3500K, 4000K	22 W	120V AC	Yes	No	AFX Inc.	**750Z37**
11 ⅝ in	3 in	Black	1,800 lm	3000K, 3500K, 4000K	22 W	120V AC	Yes	No	AFX Inc.	**787KK5**
12 in	3 in	Gold	1,800 lm	3000K, 3500K, 4000K	22 W	120V AC	Yes	No	AFX Inc.	**787KK6**
14 in	3 in	Silver	2,500 lm	3000K, 3500K, 4000K	33 W	120V AC	Yes	No	AFX Inc.	**750Z38**
14 in	3 in	Black	2,500 lm	3000K, 3500K, 4000K	33 W	120V AC	Yes	No	AFX Inc.	**787KK7**
14 in	3 in	Gold	2,500 lm	3000K, 3500K, 4000K	33 W	120V AC	Yes	No	AFX Inc.	**787KK8**
19 in	3 in	Black	3,200 lm	3000K, 3500K, 4000K	46 W	120V AC	Yes	No	AFX Inc.	**787KK9**
19 in	3 in	Gold	3,200 lm	3000K, 3500K, 4000K	46 W	120V AC	Yes	No	AFX Inc.	**787KL0**
20 in	3 in	Silver	3,200 lm	3000K, 3500K, 4000K	46 W	120V AC	Yes	No	AFX Inc.	**750Z39**
Round Flush-Mount Lights with Metal Band										
11 in	3 ½ in	Silver	980 lm	3000K	14 W	120V AC	Yes	No	LumaPro	**400H25**
Round Flush-Mount Lights with Plastic Band										
15 ½ in	3 ½ in	White	1,600 lm	4000K	22 W	120V AC	Yes	No	LumaPro	**400H21**
24 in	4 ⅝ in	White	2,900 lm	3000K	40 W	120V AC	Yes	No	LumaPro	**400H24**
Round Puff Flush-Mount Lights										
11 ½ in	3 in	White	1,000 lm	4000K	14 W	120V AC	Yes	No	LumaPro	**400H17**
12 in	2 ⅞ in	White	1,000 lm	4000K	14 W	120V AC	No	No	ETI	**335A84**
15 ½ in	3 in	White	1,600 lm	4000K	22 W	120/277/347V AC	No	No	LumaPro	**400H18**
16 in	2 ⅞ in	White	1,700 lm	4000K	22 W	120V AC	No	No	ETI	**335A86**
24 in	4 ⅝ in	White	2,900 lm	4000K	40 W	120V AC	Yes	No	ETI	**335C04**
Saturn Flush-Mount Lights										
12 ⅝ in	3 ⅛ in	Silver	1,100 lm	4000K	16 W	120V AC	Yes	No	Lithonia Lighting	**30YT56**
12 ⅝ in	3 ⅛ in	Bronze	1,100 lm	4000K	16 W	120V AC	Yes	No	Lithonia Lighting	**30YT57**
16 in	3 ⅝ in	Silver	1,600 lm	4000K	24 W	120V AC	Yes	No	Lithonia Lighting	**30YT58**
16 in	3 ⅝ in	Bronze	1,600 lm	4000K	24 W	120V AC	Yes	No	Lithonia Lighting	**30YT59**
Skye Semiflush-Mount Lights										
15 in	4 ½ in	Black	2,200 lm	3000K, 3500K, 4000K	28 W	120V AC	Yes	No	AFX Inc.	**787KN4**
15 in	4 ½ in	Gold	2,200 lm	3000K, 3500K, 4000K	28 W	120V AC	Yes	No	AFX Inc.	**787KN5**
15 in	4 ½ in	Silver	2,200 lm	3000K, 3500K, 4000K	28 W	120V AC	Yes	No	AFX Inc.	**787KN6**
19 in	4 ½ in	Black	2,900 lm	3000K, 3500K, 4000K	35 W	120V AC	Yes	No	AFX Inc.	**787KN7**
19 in	4 ½ in	Gold	2,900 lm	3000K, 3500K, 4000K	35 W	120V AC	Yes	No	AFX Inc.	**787KN8**
19 in	4 ½ in	Silver	2,900 lm	3000K, 3500K, 4000K	35 W	120V AC	Yes	No	AFX Inc.	**787KN9**
Square Flush-Mount Lights with Silver Band										
Not Applicable	3 ½ in	Silver	980 lm	3000K	14 W	120V AC	Yes	No	LumaPro	**400H26**
Not Applicable	3 ½ in	Silver	1,550 lm	3000K	22 W	120V AC	Yes	No	LumaPro	**400H28**
Square Puff Flush-Mount Lights										
12 in	3 ⅛ in	White	1,000 lm	4000K	14 W	120V AC	Yes	No	ETI	**792KL1**
Not Applicable	3 ⅛ in	White	1,000 lm	3000K	14 W	120V AC	Yes	No	LumaPro	**400H20**
Not Applicable	3 ½ in	White	1,600 lm	4000K	22 W	120V AC	Yes	No	LumaPro	**400H22**
Not Applicable	3 ⅝ in	White	2,200 lm	3000K	30 W	120V AC	Yes	No	LumaPro	**400H23**
VersiLite Flush-Mount Lights										
13 in	2 ½ in	White	2,000 lm	4000K	28 W	120V AC	Yes	No	Lithonia Lighting	**38RV53**
13 in	2 ½ in	White	1,898 lm	3000K	28 W	120V AC	Yes	No	Lithonia Lighting	**38RV54**
13 in	2 ½ in	Silver	1,985 lm	4000K	28 W	120V AC	Yes	No	Lithonia Lighting	**38RV57**
13 in	2 ½ in	White	1,985 lm	4000K	28 W	120V AC	Yes	No	Lithonia Lighting	**38RV59**

Dorset
787KJ8

Ideal
787KU9

Naples
750Z17

Opus
787KU8

Pearl
787KR4

Radio
750Z60

Unity
787KU7

Ventura
751A43

Decorative LED Wall Sconces

These fixtures project light up to the ceiling where it filters back down into the room for a dramatic lighting effect. They supply the primary light source in small spaces, or supplement ceiling lights and other fixtures in larger spaces. 750Z17 has multiple color temperature settings and a switch for choosing the hue or tone of light to match surrounding fixtures or suit a room or application.

Housing Finish	Light Output	Color Temp.	Maximum Fixture Wattage	Dimmable	Overall Length	Overall Width	Overall Height	Voltage	Item No.
Dorset Wall Sconces									
Satin Nickel	1,300 lm	4000K	14 W	No	4 in	9 in	11 ⅝ in	120 to 277V AC	**787KJ8**
Ideal Wall Sconces									
Satin Nickel	1,300 lm	4000K	15 W	No	3 ⅝ in	8 ⅞ in	10 3⁄16 in	120 to 277V AC	**787KU9**
Naples Wall Sconces									
Satin Nickel	850 lm, 1,000 lm	3000K, 3500K, 4000K	14 W	Yes	3 in	5 in	16 in	120V AC	**750Z17**
Opus Wall Sconces									
Brushed Nickel	1,200 lm	3000K	10.5 W	No	4 in	15 in	7 ½ in	120V AC	**787KU8**
Pearl Wall Sconces									
Unfinished	495 lm, 700 lm	3000K	7.5 W	Yes	4 in	4 ⅜ in	8 ½ in	120V AC	**787KR3**
Satin Brass	495 lm, 700 lm	3000K	7.5 W	Yes	4 in	4 ⅜ in	8 ½ in	120V AC	**787KR4**
Satin Nickel	495 lm, 700 lm	3000K	7.5 W	Yes	4 in	4 ⅜ in	8 ½ in	120V AC	**787KR5**
Unfinished	945 lm, 1,200 lm	3000K	13 W	Yes	4 in	4 ⅜ in	17 ¼ in	120V AC	**787KR6**
Satin Brass	945 lm, 1,200 lm	3000K	13 W	Yes	4 in	4 ⅜ in	17 ¼ in	120V AC	**787KR7**
Satin Nickel	945 lm, 1,200 lm	3000K	13 W	Yes	4 in	4 ⅜ in	17 ¼ in	120V AC	**787KR8**
Radio Wall Sconces									
Not Available	1,500 lm	4100K	14 W	No	3 ⅝ in	11 ½ in	10 ¾ in	120V AC	**750Z60**
Unity Wall Sconces									
Brushed Nickel	1,200 lm	3000K	10 W	No	4 in	8 in	8 ¼ in	120V AC	**787KU7**
Ventura Wall Sconces									
Brushed Nickel	900 lm	3000K	9 W	No	3 ½ in	7 ⅛ in	9 ⅞ in	120V AC	**751A43**
Oil-Rubbed Bronze	900 lm	3000K	9 W	No	3 ½ in	7 ⅛ in	9 ⅞ in	120V AC	**751A44**

Barlow
787KT7

Contemporary
56HC14

Hollywood
750Y69

Joanna
787KR1

Bath and Vanity LED Lights

These lights supply general or task lighting and are wall mountable with a small mounting footprint to fit tight spaces especially above or alongside mirrors. They are commonly found in hotel, restaurant, and office restrooms. Lights with multiple color temperature settings have a switch for choosing the hue or tone of light to match surrounding fixtures or suit a room or application.

Miller
787KP7

Pacific
750Z41

Pearl
787KT4

Housing Finish	Overall Length	Light Output	Color Temp.	Maximum Fixture Wattage	Dimmable	Overall Width	Overall Height	Mounting Position	Voltage	Brand	Item No.
Barlow Vanity Lights											
Polished Chrome	18 in	1,037 lm, 1,800 lm	3000K	20 W	Yes	2 in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KT6**
Polished Chrome	24 in	1,125 lm, 2,600 lm	3000K	22 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU0**
Polished Chrome	36 in	1,634 lm, 3,800 lm	3000K	30 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU4**
Satin Brass	18 in	1,037 lm, 1,800 lm	3000K	20 W	Yes	2 in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KT7**
Satin Brass	24 in	1,125 lm, 2,600 lm	3000K	22 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU1**
Satin Brass	36 in	1,634 lm, 3,800 lm	3000K	30 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU5**
Satin Nickel	18 in	1,037 lm, 1,800 lm	3000K	20 W	Yes	2 in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KT8**
Satin Nickel	24 in	1,125 lm, 2,600 lm	3000K	22 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU2**
Satin Nickel	36 in	1,634 lm, 3,800 lm	3000K	30 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU6**
Unfinished	18 in	1,037 lm, 1,800 lm	3000K	20 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KT5**
Unfinished	24 in	1,125 lm, 2,600 lm	3000K	22 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KT9**
Unfinished	36 in	1,634 lm, 3,800 lm	3000K	30 W	Yes	2 ¼ in	3 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KU3**
Contemporary Vanity Lights											
Chrome	22 ⅜ in	1,690 lm, 1,800 lm, 1,850 lm	3000K, 3500K, 4000K	18 W	Yes	2 13⁄16 in	4 7⁄16 in	Horizontal	120 to 277V AC	Lithonia Lighting	**56HC14**
Dax Vanity Lights											
Satin Brass	27 ⅛ in	2,200 lm, 3,300 lm	3000K	27 W	Yes	4 in	4 13⁄16 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP2**
Satin Brass	36 ⅛ in	2,900 lm, 3,800 lm	3000K	35 W	Yes	4 in	4 13⁄16 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP5**
Satin Nickel	27 ⅛ in	2,200 lm, 3,300 lm	3000K	27 W	Yes	4 in	4 13⁄16 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP3**
Satin Nickel	36 ⅛ in	2,900 lm, 3,800 lm	3000K	35 W	Yes	4 in	4 13⁄16 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP6**
Unfinished	27 ¼ in	2,200 lm, 3,300 lm	3000K	27 W	Yes	4 in	4 ¾ in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP1**
Unfinished	36 ¼ in	2,900 lm, 3,800 lm	3000K	35 W	Yes	4 in	4 ¾ in	Horizontal or Vertical	120V AC	AFX Inc.	**787KP4**
Hollywood Vanity Lights											
Satin Nickel	24 in	1,600 lm, 1,800 lm	3000K	18.5 W	No	4 in	4 ¾ in	Horizontal or Vertical	120V AC	AFX Inc.	**750Y68**
Satin Nickel	24 in	1,600 lm, 1,800 lm	3000K	28 W	No	4 in	4 ¾ in	Horizontal or Vertical	120V AC	AFX Inc.	**750Y69**
Joanna Vanity Lights											
Satin Nickel	23 ¼ in	Not Applicable	—	60 W	Yes	6 in	9 ½ in	Horizontal	120V AC	AFX Inc.	**787KR0**
Satin Nickel	32 ¼ in	Not Applicable	Not Applicable	60 W	Yes	6 in	9 ½ in	Horizontal	120V AC	AFX Inc.	**787KR2**
Unfinished	23 ¼ in	Not Applicable	—	60 W	Yes	6 in	9 ½ in	Horizontal	120V AC	AFX Inc.	**787KP9**
Unfinished	32 ¼ in	Not Applicable	—	60 W	Yes	6 in	9 ½ in	Horizontal	120V AC	AFX Inc.	**787KR1**
Miller Vanity Lights											
Satin Nickel	24 ⅜ in	1,580 lm, 1,700 lm	3000K, 3500K, 4000K	17 W	Yes	4 ¼ in	4 ½ in	Horizontal	120V AC	AFX Inc.	**787KP7**
Satin Nickel	35 ¾ in	2,168 lm, 2,500 lm	3000K, 3500K, 4000K	25 W	Yes	4 ¼ in	4 ½ in	Horizontal	120V AC	AFX Inc.	**787KP8**
Pacific Vanity Lights											
Satin Nickel	24 in	1,392 lm, 1,800 lm	3000K	17 W	No	3 ⅛ in	6 in	Horizontal or Vertical	120V AC	AFX Inc.	**750Z41**
Satin Nickel	36 in	2,086 lm, 2,700 lm	3000K	25 W	No	3 ⅛ in	6 in	Horizontal or Vertical	120V AC	AFX Inc.	**750Z42**
Satin Nickel	48 in	2,892 lm, 3,600 lm	3000K	34 W	No	3 ⅛ in	6 in	Horizontal or Vertical	120V AC	AFX Inc.	**787KV3**
Pearl Vanity Lights											
Satin Brass	24 in	1,175 lm, 1,500 lm	3000K	15 W	Yes	5 ⅛ in	7 ⅝ in	Horizontal	120V AC	AFX Inc.	**787KT0**
Satin Brass	32 in	1,565 lm, 1,800 lm	3000K	21 W	Yes	5 ½ in	7 ½ in	Horizontal	120V AC	AFX Inc.	**787KT3**
Satin Nickel	24 in	1,175 lm, 1,500 lm	3000K	15 W	Yes	5 ⅛ in	7 ⅝ in	Horizontal	120V AC	AFX Inc.	**787KT1**
Satin Nickel	32 in	1,565 lm, 1,800 lm	3000K	21 W	Yes	5 ½ in	7 ½ in	Horizontal	120V AC	AFX Inc.	**787KT4**
Unfinished	24 in	1,175 lm, 1,500 lm	3000K	15 W	Yes	5 ⅛ in	7 ⅝ in	Horizontal	120V AC	AFX Inc.	**787KR9**
Unfinished	32 in	1,565 lm, 1,800 lm	3000K	21 W	Yes	5 ½ in	7 ½ in	Horizontal	120V AC	AFX Inc.	**787KT2**

LED Under Cabinet Lights

Used to brighten countertops, shelves, desks, and other surfaces to help eliminate shadows and illuminate areas where direct light is limited. Their profile is generally slimmer than fluorescent lights to ease concealment under a cabinet or shelf. Lights with multiple color temperature settings have a switch for choosing the hue or tone of light to match surrounding fixtures or suit a room or application.

21GP56

55KJ47

792V97

Color Temp.	Light Output	Connec. Type	Maximum Fixture Wattage	Housing Color	Housing Material	Dimmable	Switch Function	Linkable	Overall Width	Overall Height	Brand	Item No.
LED Under Cabinet Lights												
9 inOverall Length												
3000K, 3500K, 4000K	291 lm, 302 lm, 307 lm	Plug In or Direct-Wire	4.5 W	White	Steel	Yes	On/Off	Yes	1 ⅛ in	3 ¾ in	Juno Lighting	**792V96**
12 inOverall Length												
2700K	435 lm	Plug-In	6.7 W	Silver	Aluminum	Yes	On/Off	Yes	1 ½ in	1 in	Radionic Hi-Tech	**21GP76**
2700K, 3000K, 3500K	416 lm	Plug-In or Hardwired	6.5 W	White	Steel	Yes	Not Available	No	2 9⁄16 in	1 1⁄16 in	Juno Lighting	**787M99**
2700K, 3500K, 4000K	420 lm	Plug-In or Hardwired	6 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**55KJ46**
3000K	271 lm	Plug-In	3.9 W	Silver	Aluminum	No	On/Off	Yes	1 ½ in	⅜ in	Radionic Hi-Tech	**21GP55**
3000K	535 lm	Plug-In	7.2 W	Silver	Aluminum	No	On/Off	Yes	1 ½ in	⅜ in	Radionic Hi-Tech	**21GP56**
3000K	435 lm	Plug-In	4.4 W	Silver	Aluminum	No	High/Low/Off	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV93**
4000K	450 lm	Plug-In or Hardwired	6 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**788NC0**
4500K	219 lm	Plug-In	2.3 W	Silver	Aluminum	No	On/Off	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV85**
4500K	99 lm	Plug-In	4.6 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV92**
14 inOverall Length												
3000K, 3500K, 4000K	471 lm, 499 lm, 506 lm	Plug In or Direct-Wire	6.79 W	White	Steel	Yes	On/Off	Yes	1 ⅛ in	3 ¾ in	Juno Lighting	**792V97**
17 ⅞ inOverall Length												
3000K	436 lm	Plug-In	5.9 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NW01**
4500K	663 lm	Plug-In	8.4 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV99**
18 inOverall Length												
2700K, 3000K, 3500K	526 lm	Plug-In or Hardwired	8.5 W	White	Steel	Yes	Not Available	No	2 9⁄16 in	1 1⁄16 in	Juno Lighting	**787MA0**
3000K	623 lm	Plug-In	6.3 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV98**
4000K	675 lm	Plug-In or Hardwired	9 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**788NC1**
4500K	664 lm	Plug-In	6.4 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NV97**
22 inOverall Length												
2700K, 3500K, 4000K	710 lm	Plug-In or Hardwired	11 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**55KJ47**
3000K, 3500K, 4000K	826 lm, 867 lm, 886 lm	Plug In or Direct-Wire	11.41 W	White	Steel	Yes	On/Off	Yes	1 ⅛ in	3 ¾ in	Juno Lighting	**792V98**
4000K	825 lm	Plug-In or Hardwired	11 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**788NC2**
4000K	741 lm	Plug-In or Hardwired	10.9 W	White	Aluminum	Yes	On/Off	Yes	4 in	1 in	Radionic Hi-Tech	**32PF22**
4000K	726 lm	Plug-In	11.1 W	White	Aluminum	No	High/Low	No	4 in	1 in	Radionic Hi-Tech	**39UR44**
24 inOverall Length												
2700K, 3000K, 3500K	710 lm	Plug-In or Hardwired	10.8 W	White	Steel	Yes	Not Available	No	2 9⁄16 in	1 1⁄16 in	Juno Lighting	**787MA1**
4500K	720 lm	Plug-In	10.2 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NW02**
4500K	720 lm	Plug-In	9 W	Silver	Aluminum	No	High/Low	Yes	1 ½ in	1 in	Radionic Hi-Tech	**49NW03**
30 inOverall Length												
3000K, 3500K, 4000K	1,105 lm, 1,166 lm, 1,187 lm	Plug In or Direct-Wire	15.3 W	White	Steel	Yes	On/Off	Yes	1 ⅛ in	3 ¾ in	Juno Lighting	**792V99**
32 inOverall Length												
2700K, 3500K, 4000K	910 lm	Plug-In or Hardwired	13 W	White	Aluminum	Yes	High/Low/Off	Yes	3 ½ in	1 in	Radionic Hi-Tech	**55KJ48**
4000K	918 lm	Plug-In or Hardwired	13.5 W	White	Aluminum	Yes	On/Off	Yes	4 in	1 in	Radionic Hi-Tech	**32PF23**

LED Rope and Tape Lights

Supply a strip of light for long runs and decorative trims in accent lighting applications. **Rope Lights** flex and conform to slight curves and contours. Their light is more focused than the light from tape lights. **Tape Lights** are flatter than rope lights easing concealment in shallow niches and recesses. Their light is more diffuse than the light from rope lights.

Note: Cutting the lights to length revokes their UL rating.

Rope Lights
30F514

Rope Lights
38NH57

Light Color	Overall Height	Wattage	Dimmable	Rated Life	Brand	Item No.
Rope Lights with Clear Jackets						
6 ft Overall Length						
White	½ in	6 W	No	30,000 hr	LumaPro	**30F519**
Warm White	½ in	6 W	No	30,000 hr	LumaPro	**30F520**
Blue	½ in	6 W	No	30,000 hr	LumaPro	**30F518**
Orange	½ in	2.4 W	No	30,000 hr	LumaPro	**30F521**
Green	½ in	6 W	No	30,000 hr	LumaPro	**30F517**
18 ft Overall Length						
White	½ in	18 W	No	30,000 hr	LumaPro	**30F514**
Warm White	½ in	18 W	No	30,000 hr	LumaPro	**30F515**
Red	½ in	7.2 W	No	30,000 hr	LumaPro	**30F516**
150 ft Overall Length						
White	½ in	150 W	No	30,000 hr	LumaPro	**30F523**
Green	½ in	115.5 W	No	100,000 hr	American Lighting	**38NH57**
Yellow	½ in	70.5 W	No	100,000 hr	American Lighting	**38NH59**
Amber	⅜ in	70.5 W	No	100,000 hr	American Lighting	**38NH62**
Amber	½ in	70.5 W	No	100,000 hr	American Lighting	**38NH55**
Warm White	⅜ in	115.5 W	No	60,000 hr	American Lighting	**38NH67**
Tape Lights						
6 ft Overall Length						
Blue	⅛ in	4.4 W	No	35,000 hr	LumaPro	**30F531**
Green	⅛ in	4.4 W	No	35,000 hr	LumaPro	**30F530**
12 ft Overall Length						
Red	⅛ in	8.8 W	No	35,000 hr	LumaPro	**30F529**
Blue	⅛ in	8.8 W	No	35,000 hr	LumaPro	**30F526**

Tape Lights
30F529

Bay Light Fixture Kits
61KV65

Clamp-On Fixture Kits
655Z58

Panel & Clamp-On Fixture Kits
655Z18

String Fixture Kits
655Z42

MiracleLED

LED Grow Light Kits

- 120VAC

Include fixtures with bulbs or built-in arrays to set up a new installation or add onto an existing one. LEDs use less energy than other lighting technologies and run cool so lights can be placed within inches of plants without causing wilt or burn. Grow lights emit light in color spectrums that optimize seedling growth, stem and leaf growth, or budding and flowering to grow plants indoors.

Spectrum	Linkable	Includes	Mounting Style	Item No.
Bay Light Fixture Kits				
Budding, Flowering, Fruiting				
Red	No	Hanging Hook and Wiring Diagram, High Bay Red Spectrum Grow Light	Eye Bolt	**61KV65**
Budding, Flowering, Germination, Root Development, Seeding, Vegetative Growth				
Full/Broad	Yes	LED Grow Light 4-Foot Fixture	Hanging Chains	**655Y19**
Full/Broad	Yes	LED Grow Light 4-Foot Fixture	Hanging Chains	**655Y20**
Full/Broad	No	Hi-Bay LED Grow Light	Eye Bolt	**655Y23**
Clamp-On Fixture Kits				
Full/Broad	No	Clamp-On Lamp, LED Grow Light Bulb	Non-Marring Clamp	**655Z58**
Full/Broad	No	(2) Clamp-On Lamps, (2) LED Grow Light Bulbs	Non-Marring Clamp	**655Z59**
Flowering, Fruiting, High Yield Production, High Yield Production Fruiting, Vegetative Growth				
Blue, Red	No	Clamp-On Lamp, LED Grow Light Bulb	Non-Marring Clamp	**655Z70**
Flowering, Fruiting, Vegetative Growth				
Red	No	Clamp-On Lamp, LED Grow Light Bulb	Non-Marring Clamp	**655Z66**
Germination, Seeding & Starting				
Blue	No	Clamp-On Lamp, LED Grow Light Bulb	Non-Marring Clamp	**655Z62**
Blue	No	(2) Clamp-On Lamps, (2) LED Grow Light Bulbs	Non-Marring Clamp	**655Z63**
Panel & Clamp-On Fixture Kits				
Budding, Flowering, Germination, Root Development, Seeding, Vegetative Growth				
Full/Broad	No	Clamp-On Lamp (1), LED Grow Light Bulb (1), LED Grow Panel (1)	Hanging Chains, Non-Marring Clamp	**655Z10**
Full/Broad	No	Clamp-On Lamp (2), LED Grow Light Bulb (2), LED Grow Panel (2)	Hanging Chains, Non-Marring Clamp	**655Z11**
Flowering, Fruiting, High Yield Production, High Yield Production Fruiting, Vegetative Growth				
Blue, Red	No	Clamp-On Lamp, LED Grow Light Bulb, LED Grow Panel	Hanging Chains, Non-Marring Clamp	**655Z22**
Flowering, Fruiting, Vegetative Growth				
Red	No	Clamp-On Lamp (1), LED Grow Light Bulb (1), LED Grow Panel (1)	Hanging Chains, Non-Marring Clamp	**655Z18**
Germination, Seeding & Starting				
Blue	No	Clamp-On Lamp (1), LED Grow Light Bulb (1), LED Grow Panel (1)	Hanging Chains, Non-Marring Clamp	**655Z14**
Blue	No	Clamp-On Lamp (2), LED Grow Light Bulb (2), LED Grow Panel (2)	Hanging Chains, Non-Marring Clamp	**655Z15**
String Fixture Kits				
Budding, Flowering, Germination, Root Development, Seeding, Vegetative Growth				
Blue, Full/Broad, Red	No	(1) Full Spectrum LED Grow Light Bulb, (1) Red Spectrum LED Grow Light Bulb, (1) Red/ Blue Spectrum LED Grow Light Bulb, 6 ft Cord, One Socket E26 Plug-In Light Fixture	—	**61KV63**
Full/Broad	No	LED Grow Light Bulb (1), Light Socket, Plug-in fixture with 6' Cord (1)	Flexible Rubber Cord	**655Z26**
Full/Broad	No	LED Grow Light Bulb (1), Light Socket, Plug-in fixture with 6' Cord (1)	Flexible Rubber Cord	**655Z30**
Full/Broad	No	LED Grow Light Bulb (1), Light Socket, Plug-in fixture with 6' Cord (1)	Flexible Rubber Cord	**655Z34**
Full/Broad	Yes	LED Grow Light Bulb (1), Light Socket, 4 Socket Plug-in fixture with 6' Cord (1)	Moulded Mounting Loop	**655Z42**
Full/Broad	Yes	LED Grow Light Bulb (2), Light Socket, 4 Socket Plug-in fixture with 6' Cord (2)	Moulded Mounting Loop	**655Z43**
Full/Broad	Yes	LED Grow Light Bulb (1), Light Socket, 4 Socket Plug-in fixture with 6' Cord (1)	Moulded Mounting Loop	**655Z46**
Full/Broad	Yes	LED Grow Light Bulb (2), Light Socket, 4 Socket Plug-in fixture with 6' Cord (2)	Moulded Mounting Loop	**655Z47**
Full/Broad	Yes	LED Grow Light Bulb (1), Light Socket, 4 Socket Plug-in fixture with 6' Cord (1)	Moulded Mounting Loop	**655Z50**
Flowering, Fruiting, High Yield Production, High Yield Production Fruiting, Vegetative Growth				
Blue, Red	Yes	LED Grow Light Bulb (1), Light Socket, 4 Socket Plug-in fixture with 6' Cord (1)	Moulded Mounting Loop	**655Z54**
Flowering, Fruiting, Vegetative Growth				
Red	No	LED Grow Light Bulb (1), Light Socket, Plug-in fixture with 6' Cord (1)	Flexible Rubber Cord	**655Z38**

MiracleLED

LED Grow Light Panels

Feature a large surface for distributing light over a wide area to grow plants indoors. Panels form the base component of an installation and are supplemented with smaller grow lights to get the necessary coverage. For use in greenhouses, hydroponic gardening, vertical farming, farm-to-table and urban farming, agricultural research, and other indoor growth applications.

Plant Growth Application	Spectrum	Fixture Mounting Height	Voltage	Item No.
Budding, Flowering, Germination, Root Development, Seeding, Vegetative Growth	Blue, Full/ Broad, Red	0 to 24 in	100 to 240V	**655Y75**

Multiple Light String Fixtures
61KV53

Grow Light Clamp-On Fixtures
No 655Z06

MiracleLED

Grow Light Fixtures

- 120VAC
- E26 medium screw-base
- Bulbs not included

Provide light in color spectrums that optimize seedling growth, stem and leaf growth, or budding and flowering. **String fixtures** have a flexible cable to curve along or wrap onto surfaces and hang from shelving, frames, or hooks. **Clamp-on fixtures** attach to frames, furniture, suspended ropes or chains, or other objects to supplement light from larger fixtures.

Number of Lightheads	Cord Length	UOM Qty 1 Item No.	UOM Qty 2 Item No.	UOM Qty 4 Item No.
Grow Light String Fixtures				
1	6 ft	**655Y79**	**655Y80**	**655Y81**
2	3 ft	**61KV53**	—	**61KV54**
3	4 ft	**61KV55**	—	**61KV56**
4	6 ft	**655Y83**	**655Y84**	**655Y85**
Grow Light Clamp-On Fixtures				
1	6 ft	**655Z06**	**655Z07**	**655Z08**

3D672

3D671

451F79

36WH46

3D673

655Z03

36WH45

36WH47

Lampholders & Sockets

Item	Base Type	Mounting	Watts	Voltage	Color	Mfr. Model	Item No.	Pkg. Qty.
Hubbell Wiring Device-Kellems								
Fluorescent Lamp Holder	Single Pin (Fa8)	Slide-on, Snap-in	660 W	600V AC	White	RL310	**3D672**	1
	Single Pin (Fa8)	Slide-on, Snap-in	660 W	600V AC	White	RL311	**3D673**	1
Lamp Holder	Medium Bi-Pin (T8) or (T12)	Slide-on, Snap-in	660 W	600V AC	White	HBL2937	**3D671**	1
Miracle Led								
Socket Extender	—	—	100 W	120 V	White	602219	**655Z03**	2
U.L. Listed 1",Stackable Porcel,PK4	—	—	100 W	120 V	White	602220	**655Z04**	4
U.L. Listed 1",Stackable Porcel,PK6	—	—	100 W	120 V	White	602221	**655Z05**	6
Satco								
Lamp Holder	Medium Screw (E26)	Screw	250 W	250V AC	White	90/443	**451F79**	1
Shat-R-Shield								
Lamp Holder	Medium Screw (E26)	Screw	300 W	600V AC	Yellow	WTLB	**36WH45**	1
	Medium Screw (E26)	Pendant	300 W	600V AC	Yellow	WTNB	**36WH46**	1
	Medium Screw (E26)	Screw	300 W	600V AC	Yellow	WTSB	**36WH47**	1

Dimmer Switches

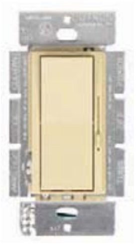
Lighting dimmer switches allow users to customize the amount of lamp output for comfort and energy efficiency. Use with compatible electronic lamps, ballasts, and LED drivers.

Switch Style	Switch Type	Operating Voltage	Max. Capacity @ 120VAC	WHITE Item No.	IVORY Item No.	ALMOND Item No.
CFL, Halogen, Incandescent, LED						
Slide						
Slide	1-Pole	120 V AC	150W (CFL, LED), 600W (Halogen, Incandescent)	**791DX8**	**791DX9**	**791DY0**
	1-Pole, 3-Way	120 V AC	150W (CFL, LED), 600W (Halogen, Incandescent)	**791DY1**	**791DY2**	**791DY3**
Slide, Toggle						
Slide, Toggle	1-Pole, 3-Way	120 V AC	300W (CFL, LED), 600W (Halogen, Incandescent)	**791DW9**	**791DX0**	**791DX1**
CFL, Halogen, Incandescent, LED, MLV						
Slide, Toggle	1-Pole, 3-Way	120 V AC	1000VA (MLV), 1000W (Incandescent), 400W (CFL, LED)	**791DX5**	**791DX6**	**791DX7**
ELV						
Slide						
Slide	1-Pole, 3-Way	120 V AC	300W (ELV)	**791DY8**	**791DY6**	**791DY7**

791DY2

791DZ9

Switch Style	Switch Type	Operating Voltage	Max. Capacity @ 120VAC	Includes	Item No.
Fluorescent, LED					
Slide	1-Pole, 3-Way	120/277 V AC	1200VA (Fluorescent, LED)	White, Ivory, Light Almond Color Kit	**791DZ8**
	1-Pole, 3-Way	120/277 V AC	1200VA (Fluorescent, LED)	White, Ivory, Light Almond Color Kit	**791DZ9**
Slide with On/Off Rocker	1-Pole, 3-Way	120 V AC	10A (LED), 1200VA (Fluorescent)	White, Ivory, Light Almond Color Kit	**791EA3**
Low Voltage					
Slide	1-Pole, 3-Way	120 V AC	450W (Magnetic Low-Voltage)	White, Ivory, Light Almond Color Kit	**791DZ1**
	1-Pole, 3-Way	120 V AC	750W (Magnetic Low-Voltage)	White, Ivory, Light Almond Color Kit	**791DZ2**
	1-Pole, 3-Way	120 V AC	300W (Magnetic Low-Voltage)	White, Ivory, Light Almond Color Kit	**791DZ3**
CFL, Incandescent, LED					
Slide	1-Pole, 3-Way	120 V AC	150W (CFL, LED), 600W (Incandescent)	White, Ivory, Light Almond Color Kit	**791DY9**
Slide with On/Off Rocker	1-Pole, 3-Way	120 V AC	300W (CFL, 600W (Incandescent), LED)	White, Ivory, Light Almond Color Kit	**791EA0**
CFL, Incandescent, LED, MLV					
Slide with On/Off Rocker	1-Pole, 3-Way	120 V AC	1000VA (MLV), 1000W (Incandescent), 450W (CFL, LED)	White, Ivory, Light Almond Color Kit	**791EA1**
CFL, Low Voltage, LED					
Slide with On/Off Rocker	1-Pole, 3-Way	120 V AC	300W (CFL, 600VA (Electronic Low Voltage), LED)	White, Ivory, Light Almond Color Kit	**791EA2**
Fluorescent					
Slide	1-Pole, 3-Way	120 V AC	600VA (Fluorescent)	White, Ivory, Light Almond Color Kit	**791DZ4**
	1-Pole, 3-Way	277 V AC	—	White, Ivory, Light Almond Color Kit	**791DZ5**
	1-Pole, 3-Way	120 V AC	1000VA (Fluorescent)	White, Ivory, Light Almond Color Kit	**791DZ6**
	1-Pole, 3-Way	277 V AC	—	White, Ivory, Light Almond Color Kit	**791DZ7**
Slide with On/Off Rocker	1-Pole, 3-Way	120 V AC	1000VA (Fluorescent)	White, Ivory, Light Almond Color Kit	**791EA4**
	1-Pole, 3-Way	277 V AC	—	White, Ivory, Light Almond Color Kit	**791EA5**
	1-Pole, 3-Way	277 V AC	8A (Fluorescent)	White, Ivory, Light Almond Color Kit	**791EA6**
	1-Pole, 3-Way	277 V AC	—	White, Ivory, Light Almond Color Kit	**791EA7**
Incandescent					
Slide	1-Pole, 3-Way	120 V AC	1000W (Incandescent)	White, Ivory, Light Almond Color Kit	**791DZ0**



Diva
5PWK9

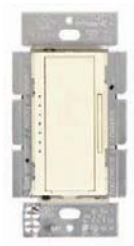
Ariadni
10P922

Sunnata
784K15

Maestro
784K12

Traditional
54YG43

Skylark
4LZ75



Maestro C•L
25L188

Lighting Dimmers

LUTRON

- Hard Wired

Lighting dimmers allow users to vary the amount of voltage reaching a light fixture, which varies the brightness of the lamp. Light dimmer switches are variable-voltage devices designed to vary the brightness of lights by decreasing or increasing RMS voltage.

Lighting Technology	Switch Type	No. of Gangs	Operating Voltage	Max. Capacity @ 120VAC	Series	White Item No.	Ivory Item No.	Almond Item No.	Light Almond Item No.
Lighting Dimmer									
Concealed with On/Off Rocker									
3-Wire Fluorescent, LED	1-Pole, 3-Way	1	277 V AC	—	Diva®	5PWL0	5PWK9	—	—
	1-Pole, 3-Way	1	120 V AC	8 A (Fluorescent Ballast)	Diva®	5PWL2	5PWL1	—	—
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way	1	120 V AC	250 W (CFL, LED), 600 W (Incandescent, Halogen)	Diva®	36WG96	36WG98	36WG97	36WG99
	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Diva® C•L	10P916	10P917	10P918	—
Fluorescent, LED	1-Pole, 3-Way	1	120 to 277 V AC	8 A (Fluorescent Ballast, LED)	Diva®	36WH29	36WH27	36WH23	36WH28
Halogen, Incandescent	1-Pole, 3-Way	1	120 V AC	600 W (Halogen, Incandescent)	Diva®	5PWL5	5PWL6	—	—
	1-Pole, 3-Way	1	120 V AC	1,000 W (Halogen, Incandescent)	Diva®	5PWL7	5PWL8	—	—
	1-Pole	1	120 V AC	600 W (Halogen, Incandescent)	Diva®	5PWL3	—	—	—
Low Voltage	1-Pole	1	120 V AC	300 W (ELV)	Diva®	5PWL9	—	—	—
	1-Pole	1	120 V AC	600 VA (MLV)	Diva®	5PWN0	—	—	—
Concealed with On/Off Toggle									
3-Wire Fluorescent, LED	1-Pole, 3-Way	1	277 V AC	—	Ariadni®	5PWJ6	5PWJ5	—	—
	1-Pole, 3-Way	1	120 V AC	8 A (Fluorescent Ballast)	Ariadni®	5PWJ8	5PWJ7	—	—
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Ariadni® C•L	10P922	10P923	10P924	—
	1-Pole, 3-Way	1	120 V AC	250 W (CFL, LED), 600 W (Incandescent, Halogen)	Ariadni®	36WG92	36WG94	36WG93	36WG95
Halogen, Incandescent	1-Pole, 3-Way	1	120 V AC	1,000 W (Halogen, Incandescent)	Ariadni®	4LX81	4LX80	—	—
	1-Pole	1	120 V AC	1,000 W (Halogen, Incandescent)	Ariadni®	4LX83	4LX82	—	—
Front Accessible Service Switch (FASS), On/Off Paddle Switch									
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Sunnata	784K15	—	—	—
Front Accessible Service Switch (FASS), Tap Switch									
CFL, ELV, Halogen, Incandescent, LED, MLV	1-Pole, 3-Way, Multilocation	—	120 V AC	250 W (LED), 400 VA (MLV), 500 W (ELV, Halogen, Incandescent)	Maestro	784K12	—	—	—
Nova T®									
3-Wire Fluorescent, LED	1-Pole	1	277 V AC	—	Nova T®	4LZ60	—	—	—
Push On/Push Off Switch, Rotary									
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Dalia	784K14	—	—	—
Rotary									
Halogen, Incandescent	1-Pole	1	120 V AC	1500 W (Halogen, Incandescent)	Centurion	446N31	—	—	—
	1-Pole	1	120 V AC	2,000 W (Halogen, Incandescent)	Centurion	446N32	—	—	—
	1-Pole	1	120 V AC	600 W (Halogen, Incandescent)	Traditional	54YG43	—	—	—
	1-Pole, 3-Way	1	120 V AC	600 W (Halogen, Incandescent)	Traditional	54YG44	—	—	—
Slide									
3-Wire Fluorescent, LED	1-Pole	1	277 V AC	—	Nova T®	4LZ62	—	—	—
	1-Pole	1	120 V AC	16 A (Fluorescent Ballast)	Nova T®	4LZ61	—	—	—
	1-Pole	1	120 V AC	24 Fluorescent Ballasts or 16 A	Nova T®	4LZ63	—	—	—
Fluorescent, LED	1-Pole	1	0 to 10 V DC	8 A (Fluorescent Ballast, LED)	Nova T®	19YP95	—	—	—
Halogen, Incandescent	1-Pole	1	120 V AC	600 W (Halogen, Incandescent)	Skylark®	4LZ78	4LZ77	—	—
	1-Pole	1	120 V AC	1,000 W (Halogen, Incandescent)	Nova T	5PWP2	783HL0	—	—
	1-Pole	1	120 V AC	1500 W (Halogen, Incandescent)	Nova T	5PWP3	—	—	—
	1-Pole	2	120 V AC	2,000 W (Incandescent)	Nova T	5PWP4	—	—	—
	1-Pole	1	120 V AC	600 W (Halogen, Incandescent)	Nova T	5PWP1	783HL2	—	—
	1-Pole	2	120 V AC	1500 W (Halogen, Incandescent)	Nova T	—	783HL1	—	—
Slide with On/Off Rocker									
3-Wire Fluorescent, LED	1-Pole, 3-Way	1	120 V AC	8 A (Fluorescent Ballast)	Skylark®	5PWK0	5PWJ9	—	—
	1-Pole, 3-Way	1	277 V AC	—	Skylark®	19YP96	19YP97	—	—
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Skylark C-L®	19YP98	19YP99	19YR01	—
	1-Pole, 3-Way	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Skylark Contour® C•L	10P919	10P920	10P921	—
Halogen, Incandescent	1-Pole	1	120 V AC	600 W (Halogen, Incandescent)	Skylark®	4V260	—	—	—
	1-Pole, 3-Way	1	120 V AC	1,000 W (Halogen, Incandescent)	Skylark Contour™	13M192	13M193	13M194	—
	1-Pole, 3-Way	1	120 V AC	600 W (Halogen, Incandescent)	Skylark®	4V261	3A162	—	—
	1-Pole	1	120 V AC	1,000 W (Halogen, Incandescent)	Skylark®	4LZ76	4LZ75	—	—
	1-Pole, 3-Way	1	120 V AC	1,000 W (Halogen, Incandescent)	Skylark®	4LZ74	—	—	—
Low Voltage	1-Pole	1	120 V AC	600 VA (MLV)	Skylark®	6E030	4LZ79	—	—
	1-Pole, 3-Way	1	120 V AC	300 W (ELV)	Skylark Contour™	13M195	13M196	13M197	—
	1-Pole	1	120 V AC	300 VA (ELV)	Skylark®	6E028	—	—	—
Tapswitch with Rocker-Style Dimmer									
CFL, Halogen, Incandescent, LED	1-Pole, 3-Way, Multilocation	1	120 V AC	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Maestro® C•L	25L186	25L187	25L188	—

Wireless Controls

Can be installed in any application for increased energy savings. Feature Clear Connect™ RF technology for reliable communication. Compatible with wireless Lutron® sensors, this page.

Description	Communication Method	Lighting Technology	Max. Capacity @ 120VAC	Color	Brand	Mfr. Model	Item No.
Wireless Lighting Dimmer							
3-Way Original Smart Dimmer Kit with Remote	Wireless RF	—	—	White	Lutron	P-DIM-3WAY-WH	**784K19**
Caseta Plug-In Lamp Dimmer	Wireless RF, 434.0 MHz	CFL, Halogen, Incandescent, LED	100 W (CFL. LED), 300 W (Incandescent)	White	Lutron	PD-3PCL-WH	**32JA46**
Caseta Wireless 1000 W In-wall Light Dimmer	Wireless RF	Halogen, Incandescent, LED, MLV	1,000 VA (MLV), 1,000 W (Halogen, Incandescent), 250 W (LED)	White	Lutron	PD-10NXD-WH	**784K23**
Caseta Wireless In-wall Dimmer + Pico Remote Control Kit	Wireless RF	CFL, Halogen, Incandescent, LED	150 W (CFL, LED), 600 W (Halogen, Incandescent)	White	Lutron	P-PKG1W-WH	**784K21**
Caseta Wireless In-wall Light Dimmer	Wireless RF	CFL, ELV, Halogen, Incandescent, LED, MLV	250 W (CFL, LED), 400 VA (MLV), 500 W (ELV, Halogen, Incandescent)	White	Lutron	PD-5NE-WH	**784K25**
Caseta Wireless In-wall Light Dimmer	Wireless RF	CFL, Halogen, Incandescent, LED	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Light Almond	Lutron	PD-6WCL-LA	**784K28**
Caseta Wireless In-wall Light Dimmer	Wireless RF, 434.0 MHz	CFL, Halogen, Incandescent, LED	150 W (CFL, LED), 600 W (Halogen, Incandescent)	White	Lutron	PD-6WCL-WH	**32JA44**
Caseta Wireless In-wall Light Dimmer	Wireless RF, 434.0 MHz	CFL, Halogen, Incandescent, LED	150 W (CFL, LED), 600 W (Halogen, Incandescent)	Ivory	Lutron	PD-6WCL-IV	**32JA45**
Caseta Wireless Plug-in Dimmer + Pico Remote Control Kit	Wireless RF	CFL, Halogen, Incandescent, LED	100 W (CFL, LED), 300 W (Halogen, Incandescent)	White	Lutron	P-PKG1P-WH	**784K20**
Maestro Wireless® Dimmers and Switches	Wireless RF, 434.0 MHz	Halogen, Incandescent	600 W (Halogen, Incandescent)	White	Lutron	MRF2-600M-WH	**25L189**
Maestro Wireless Dimmers and Switches	Wireless RF, 434.0 MHz	Halogen, Incandescent	600 W (Halogen, Incandescent)	Ivory	Lutron	MRF2-600M-IV	**25L190**
Smart Bridge Dimmer Kit with In-wall dimmer and Pico remote	Wireless RF	CFL, Halogen, Incandescent, LED	150 W (CFL, LED), 600 W (Halogen, Incandescent)	White	Lutron	P-BDG-PKG1W	**784K17**
Smart Lamp Timer Kit	Wireless RF	CFL, Halogen, Incandescent, LED	100 W (CFL, LED), 300 W (Halogen, Incandescent)	White	Lutron	P-BDG-PKG1P	**784K16**
Wireless Dimmer Switch	Wireless RF	LED	1000VA (Fluorescent)	White	Philips	UID8451/10	**454Z65**
Wireless Wall Switch							
Caseta Dual Voltage 5A RF Switch	Wireless RF	CFL, ELV, Halogen, Incandescent, LED, MLV	3 A (General Purpose Fan), 475 W (MLV), 5 A (CFL, LED), 600 VA (MLV), 600 W (ELV, Halogen, Incandescent)	White	Lutron	PD-5WS-DV-WH	**784K26**
Caseta Wireless In-Wall Switch	Wireless RF	CFL, ELV, Halogen, Incandescent, LED, MLV	3.6 A (General Purpose Fan), 6 A (CFL, LED), 720 VA (MLV), 720 W (ELV, Halogen, Incandescent)	White	Lutron	PD-6ANS-WH	**784K27**
Caseta Wireless In-Wall Switch	Wireless RF, 434.0 MHz	CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV	3 A (Fan Motor), 5 A (CFL, ELV, Fluorescent, Halogen, Incandescent), 600VA (MLV)	White	Lutron	PD-5S-DV-WH	**32JA28**
Caseta Wireless In-Wall Switch	Wireless RF, 434.0 MHz	CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV	3 A (Fan Motor), 5 A (CFL, ELV, Fluorescent, Halogen, Incandescent), 600VA (MLV)	Ivory	Lutron	PD-5S-DV-IV	**32JA29**
Caseta Wireless Smart Switch Starter Kit	Wireless RF	—	—	White	Lutron	P-BDG-PKG1WS	**784K18**
Caseta Wireless Switch & Remote Kit	Wireless RF	CFL, ELV, Halogen, Incandescent, LED, MLV	—	White	Lutron	P-PKG1WS-WH	**784K22**
Line Voltage Powered Wall Switch with Wireless Sensor Interfac	Wireless RF, 902.0 MHz	CFL, Incandescent, LED	800 W (Fluorescent, Incandescent)	White	Lithonia Lighting	SPODMR WR WH	**30ZX10**
Wireless Wall Switches	Wireless RF	CFL, LED	5.8A (Fan Motor), 8.0A (CFL, LED)	Ivory	Hubbell Wiring Device-Kellems	WLS1278I	**29RX19**
Wireless Wall Switches	Wireless RF	CFL, LED	5.8A (Fan Motor), 8.0A (CFL, LED)	White	Hubbell Wiring Device-Kellems	WLS1278W	**29RX20**

Description	Communication Method	Use With	Color	Brand	Mfr. Model	Item No.
Wireless Remote Control						
Pico Remote Control (on/off/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJ2-3B-GIV-L01	**32JA35**
Pico Remote Control (on/off/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJ2-3B-GWH-L01	**32JA34**
Pico Remote Control (on/off/raise/lower/favorite)	Wireless RF	Caséta Wireless, RA2	White	Lutron	PJ2-3BRL-GWH-F01	**784K30**
Pico Remote Control (on/off/raise/lower/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJ2-3BRL-GWH-L01	**32JA30**
Pico Remote Control (on/off/raise/lower/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJ2-3BRL-GIV-L01	**32JA31**
Pico Remote Control (on/off/raise/lower)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJ2-2BRL-GWH-L01	**32JA32**
Pico Remote Control (on/off/raise/lower)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJ2-2BRL-GIV-L01	**32JA33**
Pico Remote Control (on/off)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJ2-2B-GWH-L01	**32JA36**
Pico Remote Control (on/off)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJ2-2B-GIV-L01	**32JA37**
Wireless Remote Control with Nightlight						
Pico Remote Control with Nightlight (on/off/raise/lower/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJN-3BRL-GIV-L01	**32JA39**
Pico Remote Control with Nightlight (on/off/raise/lower/favorite)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJN-3BRL-GWH-L01	**32JA38**
Pico Remote Control with Nightlight (on/off)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	White	Lutron	PJN-2B-GWH-L01	**32JA40**
Pico Remote Control with Nightlight (on/off)	Wireless RF, 431.0 to 437.0 MHz	Lutron Caseta Wireless System, Lutron Maestro Wireless System	Ivory	Lutron	PJN-2B-GIV-L01	**32JA41**

Description	Brand	Mfr. Model	Item No.
Accessories			
Pico			
Car Clip	Lutron	PICO-CAR-CLIP	**32JA48**
Pedestal, Single	Lutron	L-PED1-WH	**32JA49**
Pedestal, Double	Lutron	L-PED2-WH	**32JA50**
Caseta			
Smartbridge. Control of Caseta™ Devices and Lutron® Shades From A Smartphone or Tablet	Lutron	L-BDG2-WH	**36WH05**

Fan Speed Controls

Dual-Slide Controls 5PWK3 and 5PWK4 feature slide up to increase fan speed or slide down to decrease fan speed, and a slide up to brighten lights or slide down to dim lights. Slide Controls 5PWK5 and 5PWK6 feature slide up to increase fan speed or slide down to decrease fan speed. All models feature quiet, 3-speed design and include wallplate.120VAC.

Description	Max. Amps	Mfr. Model	WHITE Item No.	IVORY Item No.
Dual Slide to Off	1.5 A	S2-LFSQ	**5PWK3**	**5PWK4**
Slide to Off	1.5 A	SFSQ-F	**5PWK5**	**5PWK6**
Rocker Switch with Captive Linear	1.5 A	CTFSQ-F	**12H984**	**12H985**
Rotary, Adjustable	1.5 A	FSQ-2FH-DK	**54YG45**	—
Wireless Fan Control	1.5 A	PD-FSQN	**784K29**	—

5PWK3

16A719

20VE45

20VE49

20VE43

AcuityControls
Sensor Switch

Wall Switch Occupancy Sensors

- 120/277VAC
- Motor Load ¼ HP Rating
- 180° viewing angle
- Timer range: 30 sec. to 30 min.
- No neutral required

Passive infrared and passive dual-technology occupancy sensors automatically turn lights On and Off as people enter and leave a room. By reducing the amount of time the lights are on, sensors cut energy consumption and significantly reduce energy costs. Sensors have an integrated photocell that can keep lights off if there is sufficient daylight in the room. Designed with a patent-pending wiring method that enables sensors to function with or without a neutral connection.

PASSIVE INFRARED (PIR)

Sensors detect body heat in motion. They must be located where full line-of-sight is possible.

DUAL TECHNOLOGY SENSORS (PIR AND MICROPHONICS™)

Feature an embedded microphone that hears sounds indicating occupancy in rooms with obstructions, such as bathroom stalls or office cubical areas.

Coverage	Description	Watts @ 120V	Watts @ 277V	Mfr. Model	WHITE Item No.	IVORY Item No.
Passive Infrared Occupancy Sensor with Nightlight						
2025 sq. ft.	Auto On (Default) or Manual On, Night Light	800	1200	WSX NL	**16A719**	**16A718**
Passive Infrared Occupancy Sensor						
2000 sq. ft.	Dual Relay	800	1200	WSX 2P	**20VE45**	—
	Night Light, Dual Relay	800	1200	WSX 2P NL	**20VE49**	—
	Auto On (Default) or Manual On	800	1200	WSX	**20VE43**	—
Dual Technology PIR/Microphonic Occupancy Sensor						
2000 sq. ft.	Auto On (Default) or Manual On	800	1200	WSX PDT	**20VE44**	—
	Dual Relay	800	1200	WSX PDT 2P	**20VE46**	—
	Auto On (Default) or Manual On, Night Light	800	1200	WSX PDT NL	**20VE48**	—
	Night Light, Dual Relay	800	1200	WSX PDT 2P NL	**20VE50**	—

36DZ81

23NY61

HUBBELL®
Wiring Device-Kellems

Wall Switch Occupancy and Vacancy Sensors

- Field of vision: 180°
- Rated for use with incandescent, fluorescent and LED lighting
- No neutral required, except where noted

These sensors meet the latest codes and standards, and also provide LEED points in Sustainable Sites, Energy and Atmosphere, Indoor Environmental Quality, and Innovative Design Process categories.

Sensors with adaptive technology constantly monitor the controlled area and automatically adjusts the sensitivity and time delay. This means that instead of manually adjusting the sensor for seasonal changes, occupancy pattern changes, etc., the sensor automatically adjusts itself.

DUAL TECHNOLOGY

Combine both (PIR/US) technologies, minimizing the risk of false triggering. Neutral required for 36DZ89 and 36DZ90.

PASSIVE INFRARED

Detects body heat and movement. Requires line of sight for optimal operation.

Coverage	Voltage	Watts @ 120V	Watts @ 277V	Time Delay	Timer Range	Description/ Special Features	Mfr. Model	IVORY Item No.	WHITE Item No.	GRAY Item No.
Dual Technology Motion Sensor										
1000 sq. ft.	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay	AD2000	**36DZ80**	**36DZ81**	**36DZ82**
	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay, No Button	AD2000N	**36DZ89**	**36DZ90**	—
Passive Infrared Motion Sensor										
1000 sq. ft.	120/277VAC	800/1000	1800	Adaptive/Digital	4 to 30 min.	(1) Relay	AP2000	**36DZ91**	**36DZ92**	—
1200 sq. ft.	120/277VAC	1000	1800	Manual	20 sec. to 30 min.	3-Way Capable, Selectable Manual/Auto-On Operation, Tamper Resistant Lens	WS2000	**23NY60**	**23NY61**	**29RX22**
Passive Infrared Motion Sensor with Nightlight										
1200 sq. ft.	120/277VAC	1000	1800	Manual	20 sec. to 30 min.	3-Way Capable, Selectable Manual/Auto-On Operation, Tamper Resistant Lens	WS2000N	**29RX24**	**29RX25**	**29RX23**
Passive Infrared Occupancy Sensor										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Auto-On Operation, Tamper Resistant Lens	WS1000	**23NY52**	**23NY53**	—
Passive Infrared Occupancy Sensor with Nightlight										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Auto-On Operation, Tamper Resistant Lens	WS1000N	**23NY57**	**23NY59**	—
Passive Infrared Vacancy Sensor										
1200 sq. ft.	120VAC	500/1000	—	Manual	20 sec. to 30 min.	Manual-On Operation, Tamper Resistant Lens	WS1001	**23NY55**	**23NY56**	—
Passive Infrared Vacancy Sensor with Nightlight										
1200 sq. ft.	120VAC	500	—	Manual	20 sec. to 30 min.	Manual-On Operation, Tamper Resistant Lens	WS1001N	**23NY54**	**29RX21**	—

LUTRON

Wall Switch Occupancy and Vacancy Sensors

- Field of vision: 180°
- Coverage: 900 sq. ft.
- Time delay: adjustable
- Timer range: 1/5/15/30 min.
- High-low sensitivity adjustment

Passive infrared sensors detect body heat to determine when the space is occupied. Work with standard 3-way switches or up to 9 companion switches. Occupancy versions can be set to auto-on/auto-off or manual-on/auto-off. Vacancy versions meet CA Title 24 requirements.

36N228 TO 36N231

No neutral wire required (ground connection required for functionality). Occupancy sensor loads: incandescent, halogen, MLV, CFL, LED, magnetic fluorescent, and electronic fluorescent.

32JA42 AND 32JA43

Switches all lighting loads. Meets many Title 20/24, ASHRAE 90.1, and IECC code requirements.

36WH09 TO 36WH22

Sensors can control up to 25 ballasts or drivers. UL Listed. Comply with Title 20 and Title 24 Section 110.9.

36N229

22LU20

36WH13

Max. Capacity @ 120VAC	Voltage	Use With	Mfr. Model	WHITE Item No.	IVORY Item No.	ALMOND Item No.	BLACK Item No.	BROWN Item No.	GRAY Item No.	LIGHT ALMOND Item No.
Passive Infrared Vacancy Sensor										
3.0A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-VPS6M2-DV	**36N230**	—	—	—	—	—	—
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-VPS6M2-DV	—	**36N231**	—	—	—	—	—
150W (CFL, LED), 600W (Halogen, Incandescent)	120 to 277VAC	—	MSCL-VP153M	**22LU22**	**22LU23**	—	—	—	—	—
Passive Infrared Occupancy Sensor										
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-OPS6M2-DV	**36N228**	**36N229**	—	—	—	—	—
150W (CFL, LED), 600W (Halogen, Incandescent)	120VAC	—	MSCL-OP153M	**22LU20**	**22LU21**	—	—	—	—	—
Passive Infrared/Ultrasonic Occupancy Sensor										
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-B102	**32JA42**	**32JA43**	—	—	—	—	—
For Use With 8A Electronic Fluorescent Ballast or LED Drivers—Passive Infrared Motion Sensor 0 to 10V DC Dimming Ballasts										
4.4A (Fan Motor), 8A (Fluorescent, LED)	120 to 277VAC	0 to 10V DC Dimming Ballasts	MS-Z101	—	**36WH13**	**36WH09**	**36WH10**	**36WH11**	**36WH12**	**36WH14**
For Use With 8A Electronic Fluorescent Ballast or LED Drivers—Passive Infrared Dimming Vacancy Sensor 0 to 10V DC Dimming Ballasts										
4.4A (Fan Motor), 8A (Fluorescent, LED)	120 to 277VAC	0 to 10V DC Dimming Ballasts	MS-Z101	**36WH15**	—	—	—	—	—	—
	120 to 277VAC	0 to 10V DC Dimming Ballasts	MS-Z101-V	**36WH22**	**36WH20**	**36WH16**	**36WH17**	**36WH18**	**36WH19**	**36WH21**
2A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120VAC	—	MS-OPS2	**25L178**	**25L179**	—	—	—	—	—
	120VAC	—	MS-VPS2	**25L180**	**25L181**	—	—	—	—	—
3.0A (Fan Motor), 5A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120VAC	—	MS-OPS5M	**25L182**	**25L183**	—	—	—	—	—
	120VAC	—	MS-VPS5M	**25L184**	**25L185**	—	—	—	—	—
4.4A (Fan Motor), 6A (CFL, ELV, Fluorescent, Halogen, Incandescent, LED, MLV)	120 to 277VAC	—	MS-B202	**36WH01**	—	—	—	—	—	—
	120 to 277VAC	—	MS-A102	**36WH02**	**36WH03**	—	—	—	—	—
	120 to 277VAC	—	MS-A202	**36WH04**	—	—	—	—	—	—

AcuityControls
Sensor Switch

Fixture-Mount Sensors

- 120/277V
- 800W at 120V
- 1200W at 277V
- Timer range: 30 sec. to 30 min.

Designed for commercial and industrial lighting control applications, these sensors utilize passive infrared detection and feature interchangeable lenses for multiple mounting height and coverage pattern requirements.

Description	Coverage	Includes	Mfr. Model	Item No.
High Mount and Low Mount Sensor	2000 sq. ft.	(2) Interchangeable Lenses	LSXR 610	**20VE57**
High Mount and High Mount Aisleway Sensor	40 ft.	(2) Interchangeable Lenses	LSXR 650	**20VE58**

20VE57

AcuityControls
Sensor Switch

Outdoor Motion Sensors

These passive infrared (PIR) sensors provide both motion and daylight control of dimmable outdoor or wet-location fixtures. 120/277VAC. Mounts via ½" knockout (⅞" hole) in fixture or pole. UL listed, RoHS compliant, IP66.

Description	Viewing Angle	Mfr. Model	Item No.
Low Mount, Turns Off Fixture When No Motion	360°	SBOR 10 ODP WH 0V	**38A933**
Low Mount, Dims Fixture to 40% When No Motion	360°	SBOR 10 ODP WH 4V	**38A934**
High Mount, Turns Off Fixture When No Motion	360°	SBOR 6 ODP WH 0V	**38A935**
High Mount, Dims Fixture to 40% When No Motion	360°	SBOR 6 ODP WH 4V	**38A936**

Voltage	Color	L	W	Mfr. Model	Item No.
LED Photocontrol Button					
120 to 277V AC	Green	3 ¼ in	3 ¼ in	DLL127 1.5 U	**20VE59**
480V AC	Yellow	3 ¼ in	3 ¼ in	DLL480 1.5 CUL JU	**20VE60**

38A935

1ND62

29RW75

HUBBELL® Wiring Device-Kellems

Ceiling- and Wall-Mount Occupancy Sensors

- Timer Range: 8 min. to 40 min.

Adaptive Technology constantly monitors the controlled area and automatically adjusts to accommodate seasonal changes, occupancy pattern changes, etc., and minimize manual programming. Provide LEED points. Office white color.

Control Units—Can be used with up to 4 low-voltage devices, except 29RW74 can control up to 6 devices.

Installation Type	Coverage	Voltage	Viewing Angle	Time Delay	Timer Range	STANDARD UNIT Mfr. Model	STANDARD UNIT Item No.	WITH PHOTOCELL Mfr. Model	WITH PHOTOCELL Item No.
Passive Infrared/Ultrasonic, Occupancy Sensor									
Ceiling	1500 sq. ft.	120/277VAC	360°	Adaptive	4 to 30 min.	ATP1500CL	**29RW66**	—	—
	2000 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATD2000C	**1ND52**	ATD2000CRP	**1ND53**
	2000 sq. ft.	120/277VAC	180°	Adaptive	4 to 30 min.	ATD2000CL	**29RW65**	—	—
Wall	1600 sq. ft.	24VDC	115°	Adaptive/Manual	8 to 40 min.	—	—	ATD1600WRP	**1ND51**
Passive Infrared Occupancy Sensor									
Ceiling	1500 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATP1500C	**1ND56**	ATP1500CRP	**1ND57**
Wall	1600 sq. ft.	24VDC	115°	Adaptive/Manual	8 to 40 min.	—	—	ATP1600WRP	**1ND58**
Ultrasonic Occupancy Sensor									
Ceiling	2000 sq. ft.	24VDC	360°	Adaptive/Manual	8 to 40 min.	ATU2000C	**1ND62**	ATU2000CRP	**1ND63**
	2000 sq. ft.	120/277VAC	360°	Adaptive	4 to 30 min.	ATU2000CL	**29RW73**	—	—

Item	Description/ Special Features	For Use With	Voltage	Mfr. Model	Item No.
Required Control Units for Low Voltage Sensors and Accessories					
Control Unit	Auto-ON/Auto OFF	24VDC Ceiling and Wall Mtd Occ Sensors, DSM Series SW	120 to 277VAC	CU300A	**2YCJ4**
	Manual-ON/Auto-OFF		120 to 277VAC	CU300M	**29RW75**
Required Control Unit for Low Voltage Sensors					
Control Unit	Selectable Auto-On/Auto Off/ Manual On-Auto Off	24VDC Ceiling and Wall Mtd Occ Sensors, DSM Series SW	120 to 277VAC	CU300HD	**29RW74**
Accessories					
Daylight Sensor	Control for Up to (50) Ballasts	0 to 10VDC Dimming Ballasts	0 to 10VDC	DHTD	**29RW77**
Low Voltage Wall Switch	Decorator Style, Low Voltage, Manual-On Vacancy Operation, Momentary Push Button, Specification Grade	Mfr. No. CU300M, CU300HD	—	DSM30W1	**29RW78**
Auxiliary Relay	Desired to Switch More than One Circuit when Occupancy is Sensed	Mfr. No. CU300A, CU300M, CU300HD	24VDC	AAR	**1ND47**

6DXD8

6DXG8

AcuityControls. Sensor Switch.

Ceiling Mount Occupancy Sensors

Reversible line/load wiring simplifies installation. Great for offices, classrooms, restrooms, closets, and many other spaces.

POWER PACKS

Powers remote low voltage sensors. Integrated relay switches the lighting load On and Off.

Description	Voltage	Coverage	Watts @ 120V	Watts @ 277V	Mfr. Model	Item No.
Occupancy Sensor, Passive Infrared						
Line Voltage, Small Motion Detection	120/277VAC	500 sq. ft.	800	1200	CMR 9	**6DXE4**
Line Voltage, Large Motion Detection	120/277VAC	2500 sq. ft.	800	1200	CMR 10	**6DXE2**
Low Voltage, High Mount, Requires Power Pack	12/24VDC	2800 sq. ft.	—	—	CM 6	**6DXD8**
Power and Relay Packs						
20A Relay	Input 120/277VAC, Output 15 to 24 VDC				PP20	**6DXG8**

29RW98

36DZ95

HUBBELL® Wiring Device-Kellems

Indoor and Outdoor High Bay Occupancy Sensors

Provide advanced and accurate passive infrared (PIR) technology for unequaled occupancy detection and false trip immunity. Low bay replacement lenses are available for 8- to 16-ft. mounting heights.

Coverage	Voltage	Installation Type	Timer Range	Description/ Special Features	Operating Temp. Range	Mfr. Model	Item No.
Indoor Use							
500 sq. ft. @ 30 ft. Mounting Height	24VDC	Fixture Mount	4 to 90 min.	—	32° to 149°F	HMHB2LV9	**36EA02**
	120 to 347VAC	Fixture Mount	4 to 90 min.	(1) Relay	32° to 149°F	HMHB219	**36DZ95**
	120 to 347VAC	Fixture Mount	4 to 90 min.	(2) Relays	32° to 149°F	HMHB229	**36DZ97**
Outdoor Use							
5500 sq. ft. @ 30 ft. Mounting Height	120 to 347VAC	Fixture Mount	4/8/16/30 min.	(1) Relay	-40° to 149°F	HBSXT13	**29RW98**
Required Control Unit for Low Voltage Sensors							
120 to 277VAC Input						CU300HD	**29RW74**

53VY33

53WA27

31A143

53XH35

446M65

LED Anti-Glare Wall Packs

Big Beam Emergency Lighting · Lithonia Lighting · LumaPro

Wall-mounted fixtures cast a bright, clean light and reach full brightness instantly. A shielding device projects light downwards to minimize glare and prevent light pollution. LED lamps last longer and use significantly less energy than other lamp types, produce very little heat, and can withstand temperature changes and humidity.

Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Sensor Type	Series	Color	3000K Lumens	3000K Item No.	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
Big Beam												
18 W	120/277V AC	—	—	Photocell	—	Bronze	—	—	600 lm, 1,600 lm	**783HN7**	—	—
Evolve												
12 W	120 to 240 V AC	Type IV	50 to 250W HID	Integral	—	Bronze	1,700 lm	**785RR9**	—	—	1,700 lm	**785RT1**
27 W	120 to 277 V AC	Type IV	50 to 250W HID	Integral	—	Bronze	4,000 lm	**785RT3**	—	—	—	—
Exo												
13 W	120 to 277 V AC	Type III	70W HPS/MH	Photocell	LNC	Bronze	—	—	1,150 lm	**53VZ39**	1,132 lm	**21RU45**
	120 to 277 V AC	Type III	70W HPS/MH	—	LNC	Bronze	—	—	—	—	1,132 lm	**21RU44**
15 W	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	Bronze	—	—	1,556 lm	**53WA12**	1,613 lm	**53WA16**
	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	White	—	—	1,556 lm	**53WA13**	1,613 lm	**53WA17**
	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	Bronze	—	—	1,550 lm	**53WA28**	—	—
	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	White	—	—	1,550 lm	**53WA29**	—	—
	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	Bronze	—	—	1,550 lm	**53WA44**	—	—
	120 to 277 V AC	Type III	70W HPS/MH	Photocell	Geopak	White	—	—	1,550 lm	**53WA45**	—	—
	120 to 277 V AC	Type III	70W HPS/MH	—	Geopak	Bronze	—	—	—	—	1,613 lm	**53WA14**
17 W	120 to 277 V AC	Type III	100W HPS/MH	Photocell	LNC	Bronze	—	—	1,500 lm	**53VZ46**	1,539 lm	**53VZ53**
	120 to 277 V AC	Type IV	100W HPS/MH	—	LNC	Bronze	—	—	1,535 lm	**53VZ49**	1,557 lm	**53VZ56**
	120 to 277 V AC	Type IV	100W HPS/MH	Photocell	LNC	Bronze	—	—	1,535 lm	**53VZ50**	1,557 lm	**53VZ57**
20 W	120 to 277 V AC	Type III	70W HPS/MH	Photocontrol	Sling	Bronze	—	—	2,310 lm	**53XX78**	2,263 lm	**53XX77**
22 W	120 to 277 V AC	Type III	200W HPS/MH	Photocell	LNC	Bronze	—	—	1,989 lm	**53VZ61**	—	—
	120 to 277 V AC	Type III	200W HPS/MH	—	LNC	Bronze	—	—	—	—	2,024 lm	**21RU47**
28 W	120 to 277 V AC	Type III	150W HPS/MH	—	LNC2	Bronze	—	—	2,616 lm	**53VY33**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	Photocontrol	LNC2	Bronze	—	—	2,616 lm	**53VY34**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	Photocontrol	LNC2	Bronze	—	—	2,783 lm	**53VY42**	2,797 lm	**53VY57**
30 W	120 to 277 V AC	Type III	100W HPS/MH	Photocontrol	Sling	Bronze	—	—	3,060 lm	**53XX80**	3,270 lm	**53XX79**
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	Bronze	—	—	2,789 lm	**53WA09**	2,892 lm	**53WA20**
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	White	—	—	2,789 lm	**53WA11**	2,892 lm	**53WA21**
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	Bronze	—	—	2,789 lm	**53WA18**	2,892 lm	**53WA22**
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	White	—	—	2,789 lm	**53WA19**	2,892 lm	**53WA23**
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	Bronze	—	—	2,836 lm	**53WA25**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	White	—	—	2,836 lm	**53WA27**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	Bronze	—	—	2,836 lm	**53WA34**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	White	—	—	2,836 lm	**53WA35**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	Bronze	—	—	2,836 lm	**53WA41**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	Geopak	White	—	—	2,836 lm	**53WA43**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	Bronze	—	—	2,836 lm	**53WA50**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	Photocell	Geopak	White	—	—	2,836 lm	**53WA51**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	GeoPak	Bronze	—	—	—	—	3,756 lm	**480F73**
	120 to 277 V AC	Type III	150W HPS/MH	Photocontrol	GeoPak	Bronze	—	—	—	—	3,756 lm	**480F74**
	120 to 277 V AC	Type IV	150W HPS/MH	—	GeoPak	Bronze	—	—	—	—	3,656 lm	**480F76**
	120 to 277 V AC	Type IV	150W HPS/MH	Photocontrol	GeoPak	Bronze	—	—	—	—	3,656 lm	**480F77**
42.7 W	120 to 277 V AC	Type III	150W HPS/MH	Photocontrol	LNC2	Bronze	—	—	4,014 lm	**53VY65**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	—	LNC2	Bronze	—	—	4,270 lm	**53VY70**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	Photocontrol	LNC2	Bronze	—	—	4,270 lm	**53VY71**	—	—
50 W	120 to 277 V AC	Type III	150W HPS/MH	Photocontrol	Sling	Bronze	—	—	5,526 lm	**53XX84**	5,548 lm	**53XX83**
	120 to 277 V AC	Type IV	200W HPS/MH	Photocontrol	GeoPak	Bronze	—	—	5,664 lm	**480F71**	5,678 lm	**480F83**
	120 to 277 V AC	Type IV	200W HPS/MH	—	GeoPak	Bronze	—	—	5,664 lm	**480F70**	5,678 lm	**480F82**
	120 to 277 V AC	Type III	200W HPS/MH	—	GeoPak	Bronze	—	—	—	—	5,833 lm	**480F79**
	120 to 277 V AC	Type III	200W HPS/MH	Photocontrol	GeoPak	Bronze	—	—	—	—	5,833 lm	**480F80**
80 W	120 to 277 V AC	Type III	250W HPS/MH	Photocontrol	Sling	Bronze	—	—	8,079 lm	**53XX86**	8,061 lm	**53XX85**
Lithonia Lighting												
9 W	120 to 277 V AC	Type III	60W INC; 13 to 15W CFL	—	OLLWD	Black	—	—	533 lm	**420V84**	—	—
14 W	120 to 277 V AC	Type III	100W INC; 23 to 26W CFL	—	OLLWU	Black	—	—	947 lm	**420V85**	—	—
26 W	120 to 277 V AC	Type II	70W HPS/MH	—	DSXW1 LED	Bronze	—	—	2,684 lm	**31A133**	—	—
	120 to 277 V AC	Type III	70W HPS/MH	—	DSXW1 LED	Bronze	—	—	2,757 lm	**31A134**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	—	DSXW1 LED	Bronze	—	—	5,554 lm	**31A147**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	—	DSXW1 LED	Bronze	—	—	2,808 lm	**31A146**	—	—
29 W	120 to 277 V AC	Type III	400W HPS/MH	—	KAXW	Bronze	—	—	—	—	3,607 lm	**53XH35**
46 W	120 to 277 V AC	Type II	150W HPS/MH	—	DSXW1 LED	Bronze	—	—	5,309 lm	**31A136**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	—	DSXW1 LED	Bronze	—	—	5,343 lm	**31A138**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	DSXW1 LED	Bronze	—	—	5,454 lm	**31A137**	—	—
47 W	120 to 277 V AC	Type II	150W HPS/MH	—	DSXW2 LED	Bronze	—	—	5,360 lm	**31A142**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	DSXW2 LED	Bronze	—	—	5,529 lm	**31A143**	—	—
	120 to 277 V AC	Type IV	150W HPS/MH	—	DSXW2 LED	Bronze	—	—	5,455 lm	**31A144**	—	—
	120 to 277 V AC	Type IV	175W HPS/MH	—	DSXW2 LED	Bronze	—	—	5,450 lm	**31A145**	—	—
49 W	120 to 277 V AC	Type III	400W HPS/MH	—	KAXW	Bronze	—	—	6,115 lm	**53XH38**	6,222 lm	**53XH36**
71 W	120 to 277 V AC	Type II	150W HPS/MH	—	DSXW2 LED	Bronze	—	—	7,949 lm	**31A139**	—	—
	120 to 277 V AC	Type III	150W HPS/MH	—	DSXW2 LED	Bronze	—	—	8,199 lm	**31A140**	—	—
79 W	120 to 277 V AC	Type IV	400W HPS/MH	—	KAXW	Bronze	—	—	9,708 lm	**53XH39**	—	—
	120 to 277 V AC	Type III	400W HPS/MH	—	KAXW	Bronze	—	—	—	—	9,611 lm	**53XH37**
LumaPro												
15 W	120 V AC	NEMA 6x6	250W HPS/MH	—	—	Bronze	—	—	—	—	1,450 lm	**54EP96**
20 W	120 to 277 V AC	NEMA 5x5	150W HPS/MH	—	—	Black	—	—	—	—	2,100 lm	**452N14**
50 W	120 to 277 V AC	NEMA 5x5	250W HPS/MH	—	—	Bronze	—	—	—	—	5,250 lm	**446M65**

23Y142

4GWG7

High-Pressure Sodium & Metal Halide Anti-Glare Wall Packs

These anti-glare wall packs cast light downwards around building perimeters. They use either high-pressure sodium (HPS) or metal halide (MH) lamps.

Fixture Wattage	Voltage	Lumens	Light Distribution	Color Temp.	Color	Item No.
High Pressure Sodium						
100 W	120 V AC	9,500 lm	Type III	2,000 K	Bronze	**23Y141**
150 W	120 V AC	16,000 lm	Type III	2,000 K	Bronze	**23Y142**
Metal Halide						
100 W	120 V AC	8,100 lm	Type III	4,000 K	Bronze	**23Y144**
	120 to 277 V AC	8,100 lm	Type IV	4,100 K	—	**4GWG7**
400 W	120 to 277 V AC	40,000 lm	Type IV	4,100 K	—	**4GWH2**
150 W	120 to 277 V AC	14,000 lm	Type III	4,300 K	Bronze	**23Y145**
	120 to 277 V AC	14,000 lm	Type IV	4,300 K	—	**4GWG9**

55FD80

11K571

Compact Wall Packs

Compact wall packs have a length or width less than 11" and take up a smaller mounting space than full-size wall packs, making them a good choice for exterior walls that have narrow surface areas. These outdoor lighting fixtures project widespread light onto building grounds and walkways to increase visibility for pedestrians and enhance security. They are typically used to illuminate commercial buildings, office complexes, recreational facilities, and apartment complexes.

Fixture Wattage	Voltage	Lumens	Light Distribution	LED Replacement For	Sensor Type	Color	Brand	Item No.
LED Compact Wall Packs								
Color Temperature: 4000K								
10 W	120 to 277 V AC	1,227 lm	Type IV	75W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ77**
11 W	120 to 277 V AC	1,550 lm	Type IV	100W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ81**
12 W	120 to 240 V AC	1,700 lm	Type IV	50 to 250W HID	Integral	Bronze	Evolve	**785RT0**
20 W	120 to 277 V AC	2,500 lm	Type IV	50W HPS; 70W MH; 42W CFL	Photocontrol	Bronze	Exo	**45VT71**
108 W	120 to 277 V AC	13,850 lm	Type III	100 to 400W MH	—	Bronze	Lithonia Lighting	**61LT40**
	120 to 277 V AC	13,200 lm	Type III	70 to 400W HID	—	Bronze	Lithonia Lighting	**61LT42**
Color Temperature: 4000K, 5000K								
15 W	120 to 277 V AC	1,900 lm	Type IV	100W HPS/MH	Photocell	Bronze	LumaPro	**55FD80**
	120 to 277 V AC	1,900 lm	Type IV	100W HPS/MH	Photocell	Bronze	Maxlite	**787ME5**
Color Temperature: 5000K								
10 W	120 to 277 V AC	1,200 lm	—	100W INC; 23 to 26W CFL	—	Bronze	W F Harris Lighting	**11K571**
11 W	120 to 277 V AC	1,349 lm	Type III	50W HPS/MH	Photocell	Bronze	Exo	**656N75**
	120 to 277 V AC	1,550 lm	Type IV	100W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ80**
20 W	120 to 277 V AC	2,500 lm	Type IV	50W HPS; 70W MH; 42W CFL	Photocontrol	Bronze	Exo	**45VT73**
21.5 W	120 to 277 V AC	2,424 lm	Type III	70W HPS/MH; 150W HPS/MH	—	Bronze	W F Harris Lighting	**60WT73**
22 W	120 to 277 V AC	2,950 lm	Type III	CFL to 100W MH	—	Bronze	Lithonia Lighting	**61LT39**
24 W	120 to 277 V AC	2,900 lm	Type IV	150W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ78**
40 W	120 to 277 V AC	4,008 lm	Type III	100W HPS/MH	Photocell	Bronze	Exo	**656N77**
47 W	120 to 277 V AC	6,000 lm	Type IV	250W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ79**
69 W	120 to 277 V AC	9,200 lm	Type IV	400W HPS/MH	—	Bronze	Lithonia Lighting	**60HJ82**
100 W	120 to 277 V AC	2,950 lm	Type III	70 to 400W HID	Photocell	Bronze	Lithonia Lighting	**61HR60**
108 W	120 to 277 V AC	13,850 lm	Type III	100 to 400W MH	—	Bronze	Lithonia Lighting	**61LT41**
	120 to 277 V AC	13,200 lm	Type III	70 to 400W HID	—	Bronze	Lithonia Lighting	**61LT43**
High-Pressure Sodium (HPS) Compact Wall Packs								
High Pressure Sodium								
70 W	120 V AC	3,500 lm	Type III	70W HPS/MH	Photocell	Bronze	LumaPro	**5MM59**

45VT78

483P90

55FD76

Full-Size Wall Packs

These wall packs have a length or width greater than or equal to 11" and are typically used to illuminate large areas, such as commercial building perimeters and office complexes. They cast widespread light to provide added visibility and can help deter vandals and unauthorized access to perimeters. They are also a good choice for doorway and loading areas in need of extra security lighting, or places where dark sky compliance is not required.

Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Color	Series	4000K Lumens	4000K Item No.	5000K Lumens	5000K Item No.
LED Full-Size Wall Packs									
Exo									
32 W	120 to 277 V AC	Type III	250W HPS/MH	Bronze	PVL3	—	—	3,383 lm	**54EN89**
	120 to 277 V AC	Type III	250W HPS/MH	Bronze	PVL3	—	—	4,277 lm	**54EN90**
54 W	120 to 277 V AC	Type III	250W HPS/MH	Bronze	WGH	—	—	6,372 lm	**53VZ74**
72 W	120 to 277 V AC	Type IV	250W HPS/MH	Bronze	PGM3	7,889 lm	**45VT76**	8,064 lm	**45VT77**
	120 to 277 V AC	Type III	250W HPS/MH	Bronze	PVL3	6,615 lm	**45VT78**	6,778 lm	**45VT79**
	480 V AC	Type III	250W HPS/MH	Bronze	PVL3	6,615 lm	**54EN87**	6,778 lm	**54EN88**
	480 V AC	Type IV	250W HPS/MH	Bronze	PGM3	7,889 lm	**53VZ79**	8,064 lm	**53VZ80**
102 W	120 to 277 V AC	Type IV	400W HPS/MH	Bronze	WGH	—	—	12,134 lm	**53VZ75**
Lithonia Lighting									
48 W	120 to 277 V AC	Type III	250W HPS/MH	Bronze	TWP	5,174 lm	**483P92**	5,174 lm	**483P93**
78 W	120 to 277 V AC	Type III	400W HPS/MH	Bronze	TWH	9,214 lm	**483P90**	9,214 lm	**483P91**
LumaPro									
28 W	120 to 277 V AC	Type IV	150W HPS/MH	Bronze	—	—	—	3,640 lm	**55FD76**
40 W	120 to 277 V AC	Type IV	175W HPS/MH	Bronze	—	—	—	5,540 lm	**55FD77**
50 W	120 to 277 V AC	Type IV	250W HPS/MH	Bronze	—	—	—	7,065 lm	**55FD78**
80 W	120 to 277 V AC	Type IV	400W HPS/MH	Bronze	—	—	—	11,375 lm	**55FD79**

Fixture Wattage	Voltage	Lumens	Light Distribution	Sensor Type	Color	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Induction/Compact Fluorescent (CFL) Full-Size Wall Packs							
Compact Fluorescent							
126 W	120 V AC	3,200 lm	Type IV	—	—	LumaPro	**4GWG6**
High Pressure Sodium							
100 W	120 to 277 V AC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGP8**
150 W	120 to 277 V AC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGP9**
	120 V AC	14,500 lm	Type III	—	Bronze	LumaPro	**5MM61**
Induction							
40	120 V AC	—	—	—	—	LumaPro	**4RNK5**
80	120 V AC	—	—	—	—	LumaPro	**4RNK6**
Metal Halide							
150 W	120 to 277 V AC	—	NEMA 4	Photocell	Brown	Hubbell Killark	**4KGR1**

LED Parking Garage Lights

- 120/277V AC

Overhead lighting fixtures cast widespread, uniform light in interior areas of parking structures to increase visibility for pedestrians and vehicles. They mount to surfaces, pendants, or recesses of structure ceilings, soffits, or overhangs. **Linear** fixtures are long and narrow, making them suitable for lighting garage corridors and stairwells. **Low-Profile** fixtures help ensure vehicle clearance in parking structures with a low ceiling height, while **Pendant** fixtures are a common choice for structures with variable ceiling heights.

VAP Series
21P675

LXEP Series
53XX88

Series LSQ1
488U66

Series DSXPG
26X738

Series PGX
39UR38

SRT1
56DZ42

EG2R Series
48TM37

Series SRT2
56DZ46

Color Temp.	Lumens	Fixture Wattage	Light Distribution	Lighting Certification	H	Housing Color	LED Replacement For	Brand	Series	Item No.
LED Linear Parking Garage Lights										
4 ft Nominal Length										
4000K	4,000 lm	33 W	—	—	4 ⅛ in	Opaque	70W MH/HPS	Lithonia Lighting	VAP	**21P675**
	4,100 lm	36 W	—	DLC Premium	5 ⅝ in	White	(2) T8 Fluorescent/HID	Columbia Lighting	LXEP	**45VT40**
	5,850 lm	52 W	—	DLC Premium	5 ⅝ in	White	(2) T8 Fluorescent/HID	Columbia Lighting	LXEP	**45VT39**
5000K	4,000 lm	33 W	—	DLC	8 ¼ in	—	70W MH/HPS	Lithonia Lighting	VAP	**39UT33**
	4,900 lm	47 W	—	DLC	5 ⅝ in	White	(2) T8 Fluorescent/HID	Columbia Lighting	LXEP	**53XX88**
	6,000 lm	49 W	—	—	8 ¼ in	—	100W MH/HPS	Lithonia Lighting	VAP	**39UT30**
	6,000 lm	49 W	—	DLC	8 ¼ in	—	100W MH/HPS	Lithonia Lighting	VAP	**39UT32**
	6,000 lm	49 W	—	DLC	4 ⅛ in	Clear	100W MH/HPS	Lithonia Lighting	VAP	**470X75**
LED Low-Profile Parking Garage Lights										
Square										
4000K	4,600 lm	40 W	Type V Square	DLC Premium	4 in	Bronze	100W MH/HPS	Exo	LSQ1	**488U66**
	4,600 lm	40 W	Type V Square	DLC Premium	4 in	Gray	100W MH/HPS	Exo	LSQ1	**488U67**
LED Pendant Parking Garage Lights										
Rectangle										
4000K	3,870 lm	37 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X728**
	4,130 lm	37 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X726**
	7,516 lm	74 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X738**
	7,986 lm	74 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X737**
	8,019 lm	74 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X739**
5000K	3,894 lm	37 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X713**
	3,942 lm	37 W	Asymmetric	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X715**
	4,155 lm	37 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X711**
	5,543 lm	46 W	Asymmetric	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X716**
	7,562 lm	74 W	Type V	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X723**
	7,653 lm	74 W	Asymmetric	DLC	3 7⁄16 in	White	175W MH/HPS	Lithonia Lighting	DSXPG	**26X725**
Round										
4000K	3,795 lm	30 W	Type V	DLC	8 in	White	175W MH/HPS	Lithonia Lighting	PGX	**39UR39**
	5,267 lm	47 W	Type V	DLC	8 in	White	175W MH/HPS	Lithonia Lighting	PGX	**39UR38**
LED Standard Parking Garage Lights										
4000K	3,700 lm	35 W	Type V	DLC Premium	3 ⅛ in	—	100W MH/HPS	Beacon	SRT1	**56DZ42**
	3,700 lm	35 W	Type V	DLC Premium	3 ⅛ in	—	100W MH/HPS	Beacon	SRT1	**56DZ43**
	5,040 lm	56 W	Type V	DLC	9 in	White	175W MH/HPS	Evolve	EG2R	**48TM37**
	5,700 lm	55 W	Type V	DLC Premium	3 ⅛ in	—	100W MH/HPS	Beacon	SRT1	**56DZ44**
	5,700 lm	55 W	Type V	DLC Premium	3 ⅛ in	—	100W MH/HPS	Beacon	SRT1	**56DZ45**
	6,000 lm	50 W	Type V	DLC Premium	4 in	—	175W MH/HPS	Beacon	SRT2	**56DZ46**
	6,000 lm	50 W	Type V	DLC Premium	4 in	—	175W MH/HPS	Beacon	SRT2	**56DZ47**
	8,000 lm	65 W	Type V	DLC Premium	4 in	—	175W MH/HPS	Beacon	SRT2	**56DZ48**
	8,000 lm	65 W	Type V	DLC Premium	4 in	—	175W MH/HPS	Beacon	SRT2	**56DZ49**
	10,000 lm	85 W	Type V	DLC Premium	4 in	—	250W MH/HPS	Beacon	SRT2	**56DZ50**
	10,000 lm	85 W	Type V	DLC Premium	4 in	—	250W MH/HPS	Beacon	SRT2	**56DZ51**
	12,000 lm	100 W	Type V	DLC Premium	4 in	—	400W MH/HPS	Beacon	SRT2	**56DZ52**
	12,000 lm	100 W	Type V	DLC Premium	4 in	—	400W MH/HPS	Beacon	SRT2	**56DZ53**
5000K	5,040 lm	56 W	Type V	DLC	9 in	White	175W MH/HPS	Evolve	EG2R	**48TM38**
Square										
4000K	9,300 lm	75 W	Type V Square	DLC Premium	6 in	Bronze	250W MH/HPS	Exo	LSQ2	**488U68**

LED Canopy Lights

Ceiling-mounted fixtures project a 360° widespread beam of light in building entrances and drive-through entryways to provide added visibility for pedestrians and vehicles. They use LED lamps, which reach full brightness instantly, last longer, and use significantly less energy than canopy lights with other lamp types. **LED Low-Profile Canopy Lights** have a slim design that provides more clearance with a height of 5" or less from the ceiling to the base of the fixture. **LED Standard Canopy Lights** have a height of 5" or greater from the ceiling to the base of the fixture.

CNY Series
494P56

ECLS Series
54YN71

1200 LED Series
11K572

Color Temp.	Lumens	Fixture Wattage	Voltage	Lighting Certification	H	Housing Color	LED Replacement For	Brand	Series	Item No.
LED Low-Profile Canopy Lights										
Square										
4000K	3,500 lm	27 W	120-277V AC	DLC Premium	4 ½ in	Bronze	100W MH/HPS	Lithonia Lighting	CNY	**494P56**
	3,700 lm	29 W	120-277V AC	DLC Premium	2 ¼ in	White	150W HPS/100W MH	Evolve	ECLS	**54YN72**
	4,500 lm	35 W	120-277V AC	DLC Premium	4 ½ in	Bronze	150W MH/HPS	Lithonia Lighting	CNY	**494P57**
	5,400 lm	39 W	120-277V AC	DLC Premium	2 ¼ in	White	150W HPS/100W MH	Evolve	ECLS	**54YN71**
	6,600 lm	52 W	120-277V AC	DLC Premium	4 ½ in	Bronze	175W MH/HPS	Lithonia Lighting	CNY	**494P58**
5000K	3,700 lm	29 W	120-277V AC	DLC Premium	2 ¼ in	White	150W HPS/100W MH	Evolve	ECLS	**54YN74**
	5,400 lm	39 W	120-277V AC	DLC Premium	2 ¼ in	White	150W HPS/100W MH	Evolve	ECLS	**54YN73**
Round										
4000K	1,077 lm	16.6 W	120V AC	—	3 5⁄16 in	Bronze	100W INC	Lithonia Lighting	OLCFM	**22LU32**
LED Standard Canopy Lights										
Square										
4000K	4,000 lm	45 W	120 to 277 V AC	DLC	12 in	—	100W INC; 23 to 26W CFL	W F Harris Lighting	1200 LED	**11K572**
Color Temperature: 5000K										
5000K	2,424 lm	21.5 W	120 to 277 V AC	—	7 ⅞ in	—	70W HPS/MH; 150W HPS/MH	W F Harris Lighting	80 LED	**60WT72**

Autobahn Series
53XH19

Evolve Series
54ZU96

Ratio Series
499H85

D-Series
22EL95

KAX Series
53XH48

RSX1 LED Series
494P64

LumaPro
436R33

LED Parking Lot Fixtures

These pole-mounted fixtures project maximum light over large areas to provide high visibility so pedestrians and vehicles can safely navigate their way through. They use LED lamps, which cast a bright, clean light, reach full brightness instantly, and use significantly less energy than metal halide parking lot lights. They are commonly used to replace worn out traditional lamps in existing parking lot lights.

Mount Type	Color Temp.	Lumens	Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Photocell Receptacle	Color	Item No.
American Electric									
Autobahn Series									
Arm	4000K	12,818 lm	94 W	120-277V AC	Type III	150 to 400W HPS	Yes	Gray	**53XH19**
	4000K	13,776 lm	94 W	120-277V AC	Type V	150 to 400W HPS	Yes	Gray	**53XH20**
	4000K	17,367 lm	135 W	120-277V AC	Type III	150 to 400W HPS	Yes	Gray	**53XH21**
	4000K	18,595 lm	135 W	120-277V AC	Type V	150 to 400W HPS	Yes	Gray	**53XH22**
	4000K	20,094 lm	168 W	120-277V AC	Type III	150 to 400W HPS	Yes	Gray	**53XH23**
	4000K	21,505 lm	168 W	120-277V AC	Type V	150 to 400W HPS	Yes	Gray	**53XH24**
Beacon									
Ratio Series									
Square Arm	4000K	12,000 lm	100 W	120-277V AC	Type IV	250W MH/HPS	No	Bronze	**499H84**
	4000K	18,000 lm	135 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**499H85**
	4000K	21,000 lm	165 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**499H86**
Evolve									
Evolve Series									
Slipfitter	4000K	5,000 lm	39 W	120-277V AC	Type II Wide	100W MH/HPS	No	Gray	**12C673**
	4000K	9,000 lm	84 W	120-277V AC	Type II Wide	250W MH/HPS	No	Gray	**12C681**
	4000K	10,000 lm	82 W	120-277V AC	Type II Wide	150W MH/HPS	No	Gray	**12C683**
Universal	4000K	15,000 lm	101 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV02**
	4000K	15,000 lm	116 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZU95**
	4000K	15,000 lm	116 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZU98**
	4000K	15,000 lm	116 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV06**
	4000K	20,000 lm	140 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZU96**
	4000K	20,000 lm	140 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZU99**
	4000K	20,000 lm	140 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV03**
	4000K	20,000 lm	140 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV07**
	4000K	25,000 lm	187 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV04**
	4000K	25,000 lm	187 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV08**
	4000K	30,000 lm	239 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZU97**
	4000K	30,000 lm	239 W	120-277V AC	Type IV Asymmetric Forward	1000W MH/HPS	No	Bronze	**54ZV01**
	4000K	30,000 lm	240 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV05**
	4000K	30,000 lm	240 W	120-277V AC	Type IV Wide	1000W MH/HPS	No	Bronze	**54ZV09**
Lithonia Lighting									
D-Series									
Pole	4000K	7,573 lm	74 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**36ND55**
	5000K	7,620 lm	74 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**36ND54**
	5000K	11,835 lm	89 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**22EL97**
	5000K	12,280 lm	89 W	120-277V AC	Type V	250W MH/HPS	No	Bronze	**22EL99**
	5000K	12,742 lm	102 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**22EL82**
	5000K	12,742 lm	102 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**22EL83**
	5000K	13,221 lm	102 W	120-277V AC	Type V	250W MH/HPS	No	Bronze	**22EL84**
	5000K	16,040 lm	138 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**22EL87**
	5000K	16,177 lm	134 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**22EM02**
	5000K	16,644 lm	138 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**22EL86**
	5000K	24,373 lm	185 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**22EL88**
	5000K	24,373 lm	185 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**22EL90**
	5000K	25,290 lm	185 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**22EL89**
	5000K	35,105 lm	270 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**22EL95**
KAX Series									
Pole	4000K	16,609 lm	130 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**53XH42**
	4000K	18,251 lm	130 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**53XH43**
	5000K	12,750 lm	96 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**53XH41**
	5000K	16,902 lm	130 W	120-277V AC	Type III	400W MH/HPS	No	Bronze	**53XH44**
	5000K	18,572 lm	130 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**53XH45**
	5000K	22,217 lm	160 W	120-277V AC	Type V	400W MH/HPS	No	Bronze	**53XH47**
	5000K	26,572 lm	200 W	120-277V AC	Type III	1000W MH/HPS	No	Bronze	**53XH48**
	5000K	33,389 lm	248 W	120-277V AC	Type III	1000W MH/HPS	No	Bronze	**53XH52**
	5000K	36,674 lm	248 W	120-277V AC	Type V	1000W MH/HPS	No	Bronze	**53XH53**
RSX1 LED Series									
Pole	4000K	14,397 lm	109 W	120-277V AC	Type V Wide	70 to 400W MH	No	Bronze	**494P59**
	4000K	16,360 lm	133 W	120-277V AC	Type III Wide	70 to 400W MH	No	Bronze	**494P60**
	4000K	16,574 lm	133 W	120-277V AC	Type IV Wide	70 to 400W MH	No	Bronze	**494P61**
	4000K	16,796 lm	133 W	120-277V AC	Type V Wide	70 to 400W MH	No	Bronze	**494P62**
	4000K	22,022 lm	147 W	120-277V AC	Type IV Wide	400 to 1000W MH	No	Bronze	**494P64**
	4000K	30,267 lm	244 W	120-277V AC	Type III Wide	400 to 1000W MH	No	Bronze	**494P65**
	4000K	30,663 lm	244 W	120-277V AC	Type IV Wide	400 to 1000W MH	No	Bronze	**494P63**
	4000K	31,075 lm	244 W	120-277V AC	Type V Wide	400 to 1000W MH	No	Bronze	**494P66**
LumaPro									
—	5700K	8,400 lm	140 W	100-277V AC	Type V	100W MH/HPS	No	Bronze	**45C243**
Arm	5000K	7,990 lm	60 W	120-277V AC	Type V	250W MH/HPS	No	Bronze	**436R33**
Slipfitter	5000K	12,540 lm	100 W	120-277V AC	Type V	250W MH/HPS	No	Silver	**446M58**
Stonco									
AL150 Series									
Arm	4000K	21,600 lm	150 W	120-277V AC	Type III	250W MH; 400W MH	Motion	Bronze	**784K40**
	4000K	22,000 lm	150 W	120-277V AC	Type V	250W MH; 400W MH	Motion	Bronze	**784K41**
AL70 Series									
Arm	4000K	11,400 lm	70 W	120-277V AC	Type III	150W MH; 175W MH; 250W MH	Motion	Bronze	**784K42**
	4000K	11,700 lm	70 W	120-277V AC	Type V	150W MH; 175W MH; 250W MH	Motion	Bronze	**784K43**

Ratio Series
56DZ54

AEL American Electric Lighting

LED Roadway & Street Lights

Outdoor fixtures project a bright, uniform light from dusk to dawn and reach full brightness instantly. They use LED lamps, which last longer and use significantly less energy than roadway and street lights with high-pressure sodium lamps. They also produce very little heat and remain durable through any weather. These pole-mounted lighting fixtures are commonly used to retrofit existing street and roadway lights.

Mount Type	Lumens	Color Temp.	Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Photocell Receptacle	Color	Item No.
American Electric									
Autobahn Series									
Arm	2,575 lm	4000K	18 W	120-277V AC	Type II	50 to 150W HPS	Yes	Gray	**56FD71**
	2,735 lm	4000K	18 W	120-277V AC	Type IV	50 to 150W HPS	Yes	Gray	**56FD72**
	3,890 lm	4000K	28 W	120-277V AC	Type III	50 to 150W HPS	Yes	Gray	**56FD73**
	4,167 lm	4000K	28 W	120-277V AC	Type IV	50 to 150W HPS	Yes	Gray	**56FD74**
	5,524 lm	4000K	40 W	120-277V AC	Type III	100 to 200W HPS	Yes	Gray	**56FD75**
	5,758 lm	4000K	40 W	120-277V AC	Type IV	100 to 200W HPS	Yes	Gray	**56FD76**
	6,760 lm	4000K	50 W	120-277V AC	Type III	100 to 200W HPS	Yes	Gray	**56FD77**
	7,108 lm	4000K	50 W	120-277V AC	Type IV	101 to 200W HPS	Yes	Gray	**56FD78**
	8,328 lm	4000K	60 W	120-277V AC	Type III	106 to 200W HPS	Yes	Gray	**56FD83**
	8,760 lm	4000K	60 W	120-277V AC	Type IV	107 to 200W HPS	Yes	Gray	**56FD84**
	9,355 lm	4000K	70 W	120-277V AC	Type III	102 to 200W HPS	Yes	Gray	**56FD79**
	9,710 lm	4000K	70 W	120-277V AC	Type IV	103 to 200W HPS	Yes	Gray	**56FD80**
	10,826 lm	4000K	82 W	120-277V AC	Type III	104 to 200W HPS	Yes	Gray	**56FD81**
	11,181 lm	4000K	82 W	120-277V AC	Type IV	105 to 200W HPS	Yes	Gray	**56FD82**
Beacon									
Ratio Series									
Arm	12,000 lm	4000K	100 W	120-277V AC	Type III	250W MH/HPS	No	Bronze	**56DZ54**
	18,000 lm	4000K	140 W	120-277V AC	Type IV	400W MH/HPS	No	Bronze	**56DZ56**
	21,000 lm	4000K	165 W	120-277V AC	Type IV	400W MH/HPS	No	Bronze	**56DZ55**

LITHONIA LIGHTING

High-Pressure Sodium (HPS) Parking Lot Fixtures

These parking lot fixtures use high-pressure sodium (HPS) lamps to project a powerful, high-intensity light in either amber or natural light colors. They are generally brighter than LED parking lot fixtures but take longer to warm up and need to be replaced more often. They are typically used to illuminate large sport facilities, such as outdoor stadiums or hockey rinks.

115 Series
5YB45

Mount Type	Fixture Wattage	Voltage	Light Distribution	Color	Lamp Incl.	Suggested Photocell Item No.	Item No.
High Pressure Sodium							
115 Series							
Arm	100 W	120V AC	Type II	Gray	No	LC4521C	**5YB45**
	150 W	120V AC	Type II	Gray	No	LC4521C	**5YB46**
	250 W	120V AC	Type III	Gray	No	LC4536C	**5YB47**

LITHONIA LIGHTING

Area & Roadway Light Retrofit Kits

Retrofit kits contain components to convert existing high-intensity discharge (HID) area and roadway lights to energy-efficient LED lighting. They install quickly without needing to tear down or replace the existing fixtures.

Lumens	Fixture Wattage	Voltage	Color Temp.	Light Distribution	LED Replacement For	Color	Item No.
Area & Roadway Light Retrofit Kits							
KADRD Series							
6,197 lm	73 W	120 to 480V AC	5000K	Type III	100 to 400W MH	Bronze	**45HE14**
6,585 lm	73 W	120 to 480V AC	5000K	Type V	100 to 400W MH	Bronze	**45HE15**
12,223 lm	141 W	120 to 480V AC	5000K	Type III	100 to 400W MH	Bronze	**45HE16**
12,988 lm	141 W	120 to 480V AC	5000K	Type V	100 to 400W MH	Bronze	**45HE17**
13,685 lm	134 W	120 to 277V AC	5000K	Type III	100 to 400W MH	Bronze	**45HE18**
14,541 lm	134 W	120 to 277V AC	5000K	Type V	100 to 400W MH	Bronze	**45HE19**
14,541 lm	134 W	480V AC	5000K	Type III	100 to 400W MH	Bronze	**45HE20**

45HE14

LumaPro
49WJ37

LNH2 Series
48FP78

LED Fixed Beam Security Lights

Wall-mounted fixtures have a nonadjustable head that projects a powerful, focused light over outdoor areas around warehouses, supply yards, and commercial buildings. They use LED lamps, which reach full brightness instantly, last longer, and use significantly less energy than fixed beam security lights with other lamp types. They are commonly used to retrofit existing security lights.

Lumens	Color Temp.	Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Photocell Receptacle	Color	Item No.
Lithonia Lighting								
LNH2 Series								
6,600 lm	4,000 K	64 W	120 to 277V AC	Type V	100W MH/HPS	No	Silver	**48FP78**
LumaPro								
3,325 lm	5,000 K	34 W	120 to 277V AC	Type V	150W MH/HPS	No	Bronze	**49WJ37**

5YB44

2LBL6

Fixed Beam Security Lights

These fixed beam security lights project a broad, high-intensity light in either amber or natural light colors. They use either high-pressure sodium (HPS) or metal halide (MH) lamp types and typically cost less than LED security lights but consume more power and have a shorter lifespan.

Fixture Wattage	Voltage	Lumens	Light Distribution	Sensor Type	Color	Item No.
High Pressure Sodium						
Lithonia Lighting						
100 W	120V AC	—	Type V	No	Silver	**5YB44**
Metal Halide						
LumaPro						
100 W	120V AC	—	Type V	Photocell	Bronze	**2LBL6**

488U75

780U44

LED Motion Sensor and Security Lighting

- 120V AC

LED security lights provide customizable, widespread light coverage to open areas around buildings, residences, garages, and entryways. Wall-mounted fixtures have one to three adjustable heads and include motion sensors, which automatically turn on for instant illumination whenever someone walks through the area.

Number of Lightheads	Fixture Wattage	Lumens	Color Temp.	Light Distribution	LED Replacement For	Fixture Housing Color	Brand	Item No.
Photocell								
3	36 W	1,750 lm, 2,750 lm, 4,100 lm	3000K, 4000K, 5000K	Type IV	2 Lamp 200W PAR	Bronze	Lithonia Lighting	**780U49**
2	25 W	1,750 lm, 2,750 lm	4000K	Type IV	2 Lamp 200W PAR	Bronze	Lithonia Lighting	**780U50**
3	36 W	1,750 lm, 2,750 lm, 4,100 lm	3000K, 4000K, 5000K	Type IV	2 Lamp 200W PAR	White	Lithonia Lighting	**780U51**
Passive Infrared with Photoresistor								
2	27 W	2,104 lm	3000K	Type III	150W PAR	White	Exo	**488U74**
2	27 W	2,104 lm	3000K	Type III	150W PAR	Bronze	Exo	**488U75**
Motion								
2	26 W	2,150 lm, 2,600 lm	3000K, 4000K, 5000K	Type IV	2 Lamp 200W PAR	White	Lithonia Lighting	**780U44**

38RZ99

2LBN1

4VW95

Outdoor Lighting Motion Sensors

- 120V AC

Incandescent and halogen **Adjustable Beam Angle Lights** project a bright, even light over a widespread area. These wall-mounted fixtures have one or two adjustable heads that can be positioned at different angles. They typically cost less than LED security lights but consume more power and have a shorter lifespan. **Security Light Motion Sensors** automatically turn security lights on and off, providing visibility when needed and helping make outdoor areas safer. They are commonly used to add motion sensing capability to existing adjustable beam security lights.

No. of Heads	Fixture Wattage	Coverage	Lamp Incl.	Sensor Type	Socket Type	Housing Finish	Brand	Item No.
Adjustable Beam Angle Light								
Incandescent								
2	240 W	60 sq ft	No	Motion	PAR	Bronze	Designers Edge	**38RZ85**
2	240 W	60 sq ft	No	Motion	PAR	White	Designers Edge	**38RZ86**
2	240 W	70 sq ft	No	Motion	PAR	White	Designers Edge	**38RZ90**
2	240 W	70 sq ft	No	Motion	PAR	White	Designers Edge	**38RZ92**
Halogen								
1	500 W	21,000 sq ft	Yes	Passive Infrared	—	Bronze	LumaPro	**2LBN2**
2	200 W	70 sq ft	Yes	Motion	Bi-Pin Halogen	Bronze	Designers Edge	**38RZ99**
2	200 W	70 sq ft	Yes	Motion	Bi-Pin Halogen	White	Designers Edge	**38TA01**
2	300 W	7,700 sq ft	Yes	Passive Infrared	—	Bronze	LumaPro	**2LBN1**
2	500 W	23,500 sq ft	Yes	Passive Infrared	—	Bronze	LumaPro	**4VW95**
Security Light Motion Sensors								
Motion Sensor				Motion	—	Bronze	Designers Edge	**38TA02**
Motion Sensor				Motion	—	White	Designers Edge	**38TA03**

53VR79

55MR32

49WJ22

499H93

487A97

Universal Mount Floodlights

Outdoor fixtures project a bright, high-intensity light over a widespread area to increase visibility. They can be mounted on walls, ceilings, poles, or the ground. They are typically one of several floodlights used to illuminate sports fields, parks, building exteriors, and industrial yards.

Lumens	Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Sensor Type	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
LED Universal Mount Floodlights											
Yoke; Color Temp: 4,000 K											
—	50 W	120V AC	Type V Symmetric Wide	70W MH/HPS	No Sensor Included	—	—	—	—	Pila	**55MR33**
Knuckle; Color Temp: 4000K											
3,000 lm	25 W	120 to 277V AC	NEMA 6x6	100W MH/HPS	No Sensor Included	Bronze	7 15/16 in	7 ½ in	2 ½ in	Exo	**499H89**
3,058 lm	21 W	120 to 277V AC	—	70W MH/HPS	No Sensor Included	Bronze	12 in	8 ⅞ in	3 in	Lithonia Lighting	**52XH92**
4,500 lm	26	120 to 277V AC	Type V	100W MH/HPS	Button Photocontrol	Bronze	—	—	—	Beacon	**56DZ69**
4,551 lm	34 W	120 to 277V AC	NEMA 6x6	250W MH/HPS	No	Bronze	9 ⅜ in	9 51/64 in	2 ½ in	Exo	**499H90**
	34 W	120 to 277V AC	NEMA 6x6	250W MH/HPS	Photocell	Bronze	9 ⅜ in	9 51/64 in	2 ½ in	Exo	**499H91**
6,823 lm	52 W	120 to 277V AC	NEMA 6x6	250W MH/HPS	No	Bronze	9 ⅜ in	9 51/64 in	2 ½ in	Exo	**499H92**
14,665 lm	150 W	120 to 277V AC	NEMA 6x6	400W MH/HPS	No Sensor Included	Bronze	19 in	6 in	14 ⅞ in	Exo	**53VR79**
15,000 lm	124	120 to 277V AC	Type V	400W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ64**
32,000 lm	266 W	120 to 277V AC	NEMA 6x6	1000W MH/HPS	No	Bronze	9 ⅜ in	18 ⅛ in	2 ½ in	Exo	**499H94**
Trunnion; Color Temp: 4000K											
15,000 lm	124 W	120 to 277V AC	NEMA 6x6	400W MH/HPS	No	Bronze	9 ⅜ in	13 25/32 in	3 ½ in	Exo	**499H93**
30,106 lm	266 W	120 to 277V AC	NEMA 6x6	1000W MH/HPS	No	Bronze	9 ⅜ in	18 ⅛ in	2 ½ in	Exo	**499H95**
Yoke; Color Temp: 4000K											
1,000 lm	10 W	120V AC	Type V Symmetric Wide	100W HAL	No Sensor Included	—	—	—	—	Pila	**55MR31**
3,000 lm	30 W	120V AC	Type V Symmetric Wide	50W MH/HPS	No Sensor Included	—	—	—	—	Pila	**55MR32**
12,439 lm	100 W	120 to 277V AC	NEMA 6x6	250W MH/HPS	No Sensor Included	—	—	—	—	Stonco	**55MR25**
14,665 lm	150 W	120 to 277V AC	NEMA 6x6	400W MH/HPS	No Sensor Included	Bronze	19 in	6 in	14 ⅞ in	Exo	**53VR81**
Knuckle; Color Temp: 5000K											
832 lm	10.9 W	120 to 277V AC	NEMA 2	100W INC/23 to 26W CFL	No Sensor Included	Bronze	7 13/16 in	3 ½ in	3 ½ in	Lithonia Lighting	**21YH21**
839 lm	11.3 W	120 to 277V AC	NEMA 5x5	100W INC/23 to 26W CFL	No Sensor Included	Bronze	7 13/16 in	3 ½ in	5 ¼ in	Lithonia Lighting	**21YH19**
3,058 lm	21 W	120 to 277V AC	—	70W MH/HPS	No Sensor Included	Bronze	12 in	8 ⅞ in	3 in	Lithonia Lighting	**52XH91**
3,200 lm	26	120 to 277V AC	Type V	100W MH/HPS	Button Photocontrol	Bronze	—	—	—	Beacon	**56DZ67**
	26	120 to 277V AC	Type V	100W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ68**
4,400 lm	52	120 to 277V AC	Type V	250W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ66**
5,573 lm	42 W	120 to 277V AC	—	150W MH/HPS	No Sensor Included	Bronze	12 in	8 ⅞ in	3 in	Lithonia Lighting	**52XH93**
7,793 lm	54 W	120 to 277V AC	—	150W MH/HPS	No Sensor Included	Bronze	12 in	12 ¾ in	3 in	Lithonia Lighting	**52XH94**
10,678 lm	78 W	120 to 277V AC	—	250W MH/HPS	No Sensor Included	Bronze	12 in	12 ¾ in	3 in	Lithonia Lighting	**52XH95**
14,700 lm	124	120 to 277V AC	Type V	400W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ65**
14,764 lm	150 W	120 to 277V AC	NEMA 6x6	400W MH/HPS	No Sensor Included	Bronze	19 in	6 in	14 ⅞ in	Exo	**53VR80**
29,000 lm	266	120 to 277V AC	Type V	1000W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ70**
Trunnion; Color Temp: 5000K											
14,700 lm	124	120 to 277V AC	Type V	400W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ63**
18,800 lm	150 W	120 to 277V AC	NEMA 6x6	400 to 1000W MH	7-Pin Receptacle	Bronze	4 29/32 in	19 19/64 in	23 ¾ in	Evolve	**487A97**
29,000 lm	266	120 to 277V AC	NEMA 6x6	1000W MH/HPS	No Sensor Included	Bronze	—	—	—	Beacon	**56DZ71**
38,100 lm	297 W	120 to 277V AC	NEMA 7x6	400 to 1000W MH	7-Pin Receptacle	Bronze	4 29/32 in	19 19/64 in	23 ¾ in	Evolve	**487A99**
U-Bracket; Color Temp: 5000K											
1,235 lm	14 W	120 to 277V AC	NEMA 2x2	75W INC/18 to 20W CFL	No Sensor Included	Bronze	3 ½ in	4 ⅝ in	3 ½ in	LumaPro	**49WJ16**
1,260 lm	14 W	120 to 277V AC	NEMA 6x6	75W INC/18 to 20W CFL	No Sensor Included	Bronze	3 ½ in	4 ⅝ in	3 ½ in	LumaPro	**49WJ22**
Yoke; Color Temp: 5000K											
4,460 lm	40 W	120 to 277V AC	Type II	150W MH/HPS	Photocell	Bronze	5 ½ in	7 ⅛ in	6 ¼ in	LumaPro	**55FD75**
14,764 lm	150 W	120 to 277V AC	NEMA 6x6	400W MH/HPS	No Sensor Included	Bronze	19 in	6 in	14 ⅞ in	Exo	**53VR82**

CONTINUED

Universal Mount Floodlights

Fixture Wattage	Voltage	Lumens	Light Distribution	Sensor Type	Lamp Incl.	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Induction/Compact Fluorescent (CFL) Universal Mount Floodlights											
Compact Fluorescent											
13 W	120 to 277V AC	900 lm	NEMA 5	No Sensor Included	Yes	Gray	4 15⁄32 in	—	7 7⁄8 in	Hubbell Killark	**6JEN2**
High Pressure Sodium											
250 W	120 to 277V AC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 3⁄8 in	10 3⁄4 in	17 3⁄8 in	Lithonia Lighting	**3GA92**
400 W	120 to 277V	38,000 lm	—	No Sensor Included	Yes	Bronze	16 1⁄8 in	6 1⁄8 in	15 3⁄4 in	Lithonia Lighting	**4EA37**
	120 to 277V AC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 3⁄4 in	10 3⁄4 in	17 5⁄8 in	Lithonia Lighting	**3GA97**
	120 to 277V AC	40,000 lm	NEMA 7x6	Photocell Receptacle	Yes	Bronze	12 3⁄4 in	10 3⁄4 in	17 5⁄8 in	Lithonia Lighting	**3YA66**
Metal Halide											
150 W	120 to 277V AC	14,000 lm	—	No Sensor Included	Yes	Bronze	9 1⁄4 in	7 1⁄16 in	13 3⁄4 in	LumaPro	**3HNG2**
400 W	120 to 277V AC	40,000 lm	NEMA 5x5	No Sensor Included	Yes	Bronze	12 3⁄4 in	10 3⁄4 in	17 5⁄8 in	Lithonia Lighting	**3JXC2**
	120 to 277V AC	40,000 lm	NEMA 7x6	No Sensor Included	Yes	Bronze	12 3⁄4 in	10 3⁄4 in	17 5⁄8 in	Lithonia Lighting	**3JXC3**
	120 to 277V AC	40,000 lm	NEMA 7x6	Photocell Receptacle	Yes	Bronze	12 3⁄4 in	10 3⁄4 in	17 5⁄8 in	Lithonia Lighting	**3JXC4**
	120V AC	—	NEMA 7x6	Photocell Receptacle	No	Bronze	14 5⁄8 in	7 in	16 in	Lithonia Lighting	**3JXE7**

31LA59

31LA63

KIM LIGHTING

LED Ground Mount Floodlights

- 120/277V AC

These outdoor lighting fixtures aim a bright, high-intensity light upward to spotlight objects and increase their visibility. They are installed on a ground surface and commonly used to illuminate signs, building facades, statues, flagpoles, and landscaping.

Lumens	Fixture Wattage	Light Distribution	LED Replacement For	Fixture Housing Color	H	W	L	Item No.
LED Ground Mount Floodlights								
Swivel; Color Temperature: 3,000 K								
1,078 lm	10 W	NEMA 3x3	75W HAL	Black	6 1⁄4 in	3 in	5 1⁄2 in	**31LA59**
938 lm	10 W	NEMA 4x4	75W HAL	Black	6 1⁄4 in	3 in	5 1⁄2 in	**31LA60**
1,078 lm	10 W	NEMA 3x3	75W HAL	Bronze	6 1⁄4 in	3 in	5 1⁄2 in	**31LA61**
938 lm	10 W	NEMA 4x4	75W HAL	Bronze	6 1⁄4 in	3 in	5 1⁄2 in	**31LA62**
1,031 lm	11 W	NEMA 1	75W HAL	Black	7 1⁄4 in	5 1⁄8 in	9 in	**31LA63**
	11 W	NEMA 1	75W HAL	Bronze	7 1⁄4 in	5 1⁄8 in	9 in	**31LA65**
Knuckle; Color Temperature: 4,000 K								
2,468 lm	20 W	NEMA 7x6	—	Bronze	7 39⁄64 in	—	—	**61TX46**
Knuckle; Color Temperature: 3,000 K								
2,239 lm	20 W	NEMA 7x6	—	Bronze	7 39⁄64 in	—	—	**61TX45**

20LN57

20LN59

Wall Mount Floodlights

Fixtures have an adjustable beam and mount to an exterior wall, making them a good choice for precise lighting of building grounds, landscapes, or walkways.

Fixture Wattage	Voltage	Lumens	Color Temp.	Light Distribution	LED Replacement For	Fixture Housing Color	Mount Type	H	W	L	Brand	Item No.
LED Wall Mount Floodlights												
150 W	100 to 277V AC or 11 to 25V AC/11 to 25V DC	17,500 lm	5,600 K	NEMA 6x6	400W MH/HPS	Brown	Trunnion	13 9⁄64 in	10 7⁄8 in	14 1⁄2 in	Larson Electronics Llc	**20LN57**
300 W	120 to 277V AC	29,580 lm	—	—	1000W MH/HPS	Brown	Trunnion	19 3⁄4 in	9 1⁄8 in	17 49⁄64 in	Larson Electronics Llc	**20LN58**

Fixture Wattage	Voltage	Lumens	Lamp Incl.	Fixture Housing Color	H	W	D	Brand	Item No.
High-Pressure Sodium (HPS)/Metal Halide (MH)/Halogen/Compact Fluorescent (CFL) Wall Mount Floodlights									
High Pressure Sodium									
150 W	120V AC	14,500 lm	Yes	Bronze	9 1⁄2 in	10 1⁄2 in	9 in	LumaPro	**5MM45**
Metal Halide									
400 W	120 to 277V AC	34,000 lm	No	Brown	13 9⁄64 in	10 7⁄8 in	—	Larson Electronics Llc	**20LN59**

Pole Mount Floodlights

Floodlights project a bright, high-intensity light over large outside areas to increase visibility and enhance safety of pedestrians. They are installed on poles and are typically used to illuminate parking lots, parks, sports fields, and industrial yards.

21RU79

54ZH58

Lumens	Fixture Wattage	Voltage	Light Distribution	LED Replacement For	Fixture Housing Color	Fixture Height	Fixture Width	Fixture Length	Brand	Item No.
LED Pole Mount Floodlights										
Slipfitter; Color Temperature: 5000K										
18,023 lm	170 W	120 to 277V AC	NEMA 5x5	400W MH/HPS	Metallic Titanium	14 ⅝ in	9 ⅜ in	16 ⅜ in	Beacon	**21RU79**
21,702 lm	220 W	120 to 277V AC	NEMA 5x5	250W MH/HPS	Metallic Titanium	15 in	12 in	17 in	Beacon	**45VT31**
Knuckle; Color Temperature: 3000K										
592 lm	10.5 W	120 to 277V AC	NEMA 5x5	100W INC/23 to 26W CFL	Bronze	7 13⁄16 in	3 ½ in	5 ¼ in	Lithonia Lighting	**21YH18**
Knuckle, Slipfitter; Color Temperature: 5000K										
5,000 lm	30 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH62**
10,000 lm	64 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH60**
15,000 lm	96 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH58**
Knuckle, Slipfitter; Color Temperature: 4000K										
5,000 lm	30 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH63**
10,000 lm	64 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH61**
15,000 lm	96 W	120 to 277V AC	NEMA 7x6	250W HPS/250 to 400W MH	Bronze	5 ⅛ in	16 ⅜ in	22 in	Evolve	**54ZH59**
Halogen/Incandescent Pole Mount Floodlights										
Halogen										
—	35 W	120V AC	—	35W HAL	Black	2 ¾ in	2 in	6 ⅜ in	LumaPro	**6MPA6**
	50 W	120V AC	—	50W HAL	Black	3 ¼ in	2 ½ in	7 ¾ in	LumaPro	**6MPA8**

Outdoor Lampholders

These weather-resistant fixtures add secondary lighting to outdoor areas to increase visibility and provide safe navigation for pedestrians. They have one or two lamp heads and can be mounted on walls, ceilings, or the ground. Lamps are installed in the holders to provide a desired color and illumination level. Lampholders are commonly installed on entryways and doorways, garage and workshop exteriors, outdoor patios and yard spaces, and office buildings.

21A135

21A124

14G273

21A139

14G263

Fixture Mounting Location	Fixture Wattage	Voltage	Fixture Housing Color	Socket Type	Includes	Lamp Incl.	Brand	Item No.
1 Lightheads								
Ground	150 W	120V AC	Gray	Standard Medium Base E26	Spike Light with Cord	No	Taymac	**21A135**
Surface	75 W	120V AC	Gray	GY 8.6 Type 4	Lamp, Lamp Holder	Yes	Taymac	**21A124**
Surface	75 W	120V AC	Bronze	GY 8.6 Type 4	Lamp, Lamp Holder	Yes	Taymac	**21A125**
Surface	150 W	130V AC	White	Standard Medium Base E26	—	No	W F Harris Lighting	**14G258**
Surface	150 W	130V AC	Black	Standard Medium Base E26	—	No	W F Harris Lighting	**14G273**
Universal	150 W	—	White	Standard Medium Base E26	—	No	Bell Outdoor	**623P18**
Universal	150 W	—	Bronze	Standard Medium Base E26	—	No	Bell Outdoor	**623P19**
2 Lightheads								
Surface	150 W	120V AC	Gray	Standard Medium Base E26	2 Lamp Holders , Round Lamp Holder Cover and Round Box	No	Taymac	**21A134**
Surface	150 W	120V AC	White	Standard Medium Base E26	2 Lamp Holders , Round Lamp Holder Cover and Round Box	No	Taymac	**21A138**
Surface	150 W	120V AC	Gray	Standard Medium Base E26	2 Lamp Holders , Photo Photo Eye and Round Box, Round Lamp Holder Cover	No	Taymac	**21A139**
Surface	150 W	130V AC	White	Standard Medium Base E26	—	No	W F Harris Lighting	**14G261**
Surface	150 W	130V AC	Bronze	Standard Medium Base E26	—	No	W F Harris Lighting	**14G262**
Surface	150 W	130V AC	Black	Standard Medium Base E26	—	No	W F Harris Lighting	**14G263**

Item	Type	Item No.
W F Harris Lighting Accessories		
Surface Mount Wiring Box	Black	**14G264**
Surface Mount Wiring Box	White	**14G265**
Surface Mount Wiring Box	Bronze	**14G266**
Hood	Snap-On,White	**14G270**
Hood	Snap-On,Bronze	**14G271**
Hood	Snap-On,Black	**14G272**

PHILIPS
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LED Outdoor Accent Lights

Accent lights draw attention to specific outdoor features, such as trees and garden beds, and provide visual interest. These LED lights project a bright, clean light and reach full brightness instantly. They last longer and use significantly less energy than incandescent or quartz landscape lights. They also produce very little heat and can withstand temperature changes and humidity.

Watts	Voltage	Lumens	CRI	Color Temp.	Light Distribution	Housing Finish	Includes	Rated Life	Length	Width	Item No.
LED Accent Light											
2/10	12V AC	131 to 710 lm	70	4,000 K	Adjustable	Black	Zoomable Lens, Interchangeable Lens, Mounting Stake	50,000 hr	5 in	2 1/4 in	**53UL77**
2/10	12V AC	131 to 710 lm	70	4,000 K	Adjustable	Bronze		50,000 hr	5 in	2 1/4 in	**53UL78**
2/10	12V AC	111 to 669 lm	70	3,000 K	Adjustable	Black		50,000 hr	5 in	2 1/4 in	**53UL79**
7	12V AC	460 lm	70	3,000 K	Flood	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth, Fully Rotatable Shroud, Mounting Stake	25,000 hr	5 13/16 in	2 13/16 in	**53UL71**
7	12V AC	460 lm	70	3,000 K	Narrow Flood	Black		25,000 hr	5 13/16 in	2 13/16 in	**53UL72**
7	12V AC	460 lm	70	3,000 K	Flood	Bronze		25,000 hr	5 13/16 in	2 13/16 in	**53UL73**
7	12V AC	460 lm	70	3,000 K	Narrow Flood	Bronze		25,000 hr	5 13/16 in	2 13/16 in	**53UL74**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Black	Interchangeable Optics 20°, 36° and 65°	50,000 hr	10 39/64 in	6 7/64 in	**53UL64**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Bronze		50,000 hr	10 39/64 in	6 7/64 in	**53UL65**
10/13/19/27/33	120 to 277V AC	3,271 lm	70	3,000 K	Adjustable	Black		50,000 hr	10 39/64 in	6 7/64 in	**53UL67**
10/13/19/27/33	120 to 277V AC	1023 to 3622 lm	70	4,000 K	Adjustable	Bronze	Interchangeable Optics 20°, 36° and 65°, 10K Surge Suppressor	50,000 hr	10 39/64 in	6 7/64 in	**53UL66**
10/13/19/27/33	120 to 277V AC	3,271 lm	70	3,000 K	Adjustable	Black		50,000 hr	10 39/64 in	6 7/64 in	**53UL68**
10/13/19/27/33	120 to 277V AC	932 to 3271 lm	70	3,000 K	Adjustable	Bronze		50,000 hr	10 39/64 in	6 7/64 in	**53UL70**
13	120V AC	700 lm	70	2,700 K	Narrow Flood	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth	25,000 hr	9 1/2 in	5 5/16 in	**53UL61**
13	120V AC	700 lm	70	2,700 K	Narrow Flood	Bronze		25,000 hr	9 1/2 in	5 5/16 in	**53UL62**
Mini LED Light											
2	12V AC	105 lm	70	3,000 K	Omnidirectional	Black	Fully-Adjustable Swivel Arm with Vibration-Proof Locking Teeth, Shroud, Mounting Stake	50,000 hr	4 3/8 in	2 in	**53UL75**
2	12V AC	105 lm	70	3,000 K	Omnidirectional	Bronze		50,000 hr	4 3/8 in	2 in	**53UL76**

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Landscape Lighting

These floodlight fixtures use either halogen, incandescent, or quartz lamps to project a bright, even light over a widespread area. They are built to withstand inclement weather and typically cost less than LED outdoor accent lights, but they consume more power and have a shorter lifespan.

Item	For Use With	Item No.
LumaPro Accessories		
Housing	Mfr. No. RSB2, RSC2 or RSF2	**53UN33**
Housing	Mfr. No. RSB2, RSC2 or RSF2	**53UN34**
Shroud Light	—	**53UL40**
Shroud Light	—	**53UL41**
Shroud Light	—	**53UL42**
Shroud Light	—	**53UL44**

Lamp Type	Wattage	Voltage	Lamp Incl.	Fixture Housing Color	Housing Material	Mounting	L (in.)	Item No.
HID, Incandescent								
PAR-20	50	120V AC	Yes	Black	Cast Aluminum	Inground	8 1/2 in	**53UL53**
	50	120V AC	Yes	Bronze	Cast Aluminum	Inground	8 1/2 in	**53UL54**
PAR-30, R-30, PAR-38, R-40, Medium Base	100	120V AC	No	Bronze	Cast Aluminum	Inground	8 9/16 in	**53UL57**
Incandescent								
MR-16 Bi-Pin	35	12V AC	No	Bronze	Polycarbonate	Inground	4 1/8	**53UM68**
PAR-20 or R-20, Medium Base	100	120V AC	No	Black	Cast Aluminum	Inground	5 7/16 in	**53UL45**
	100	120V AC	No	Bronze	Cast Aluminum	Inground	5 7/16 in	**53UL46**
PAR-30 or R-30, Medium Base	75	120V AC	No	Black	Cast Aluminum	Inground	9 1/2 in	**53UL55**
	75	120V AC	No	Bronze	Cast Aluminum	Inground	9 1/2 in	**53UL56**
	100	120V AC	No	Bronze	Cast Aluminum	Inground	9 1/2 in	**53UL47**
PAR-38 or R-40 Incandescent	150	120V AC	No	Bronze	Cast Aluminum	Inground	7 3/16 in	**53UL39**
	300	120V AC	No	Bronze	Cast Aluminum	Inground	8 9/16 in	**53UL48**
Quartz								
MR-16	35	12V AC	Yes	Black	Polycarbonate	Inground	6 1/2 in	**53UL58**
	35	12V AC	Yes	Bronze	Polycarbonate	Inground	6 1/2 in	**53UL59**
	50	12V AC	Yes	Black	Cast Aluminum	Inground	5 13/16 in	**53UL49**
	50	12V AC	Yes	Bronze	Cast Aluminum	Inground	5 13/16 in	**53UL50**
	50	12V AC	Yes	Black	Cast Aluminum	Inground	5 1/2 in	**53UL51**
	50	12V AC	Yes	Bronze	Cast Aluminum	Inground	5 1/2 in	**53UL52**

PHILIPS
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Pathway Lights

Pathway lights emit low-level light to improve visibility along walkways and add visual interest. They are typically mounted on stakes and can be planted in the ground to illuminate sidewalks and driveways.

53UN16

53UN19

53UN21

Lumens	Voltage	Fixture Wattage	Color Temp.	Housing Color	L	H	W	Item No.
LED								
105 lm	12V AC	2 W	3,000 K	Bronze	4 ¾ in	20 in	4 ¾ in	**53UN12**
105 lm	12V AC	2 W	3,000 K	Bronze	6 in	23 ⅛ in	6 in	**53UN16**
105 lm	12V AC	2 W	3,000 K	Black	5 1⁄16 in	19 ½ in	5 1⁄16 in	**53UN17**
105 lm	12V AC	2 W	3,000 K	Green	5 1⁄16 in	19 ½ in	5 1⁄16 in	**53UN18**
105 lm	12V AC	2 W	3,000 K	Bronze	5 1⁄16 in	19 ½ in	5 1⁄16 in	**53UN19**
105 lm	12V AC	2 W	3,000 K	Black	10 in	17 ¼ in	10 in	**53UN20**
105 lm	12V AC	2 W	3,000 K	Green	10 in	17 ¼ in	10 in	**53UN21**
105 lm	12V AC	2 W	3,000 K	Bronze	10 in	17 ¼ in	10 in	**53UN22**
105 lm	12V AC	2 W	3,000 K	Black	8 in	16 ⅜ in	8 in	**53UN23**
Incandescent								
200 lm	12V AC	20	—		5 1⁄16 in	19 ½ in	5 1⁄16 in	**53UN07**
—	12	20	—		5 1⁄16 in	19 ½ in	5 1⁄16 in	**53UN08**
—	12	20	—		10 in	17 ¼ in	10 in	**53UN09**
200 lm	12V AC	20	—		4 ¾ in	20 in	4 ¾ in	**53UM99**

53UN22

53UN08

PHILIPS
HADCO

LED Bollards

Bollards provide attractive accent and guide lighting for walkways, entrances, courtyards, and similar landscaped areas. They consist of a sturdy vertical post with a light source located at or near the top. These LED fixtures project a bright, clean light and reach full brightness instantly. They last longer and use significantly less energy than other types of bollard lights.

Watts	Voltage	Lumens	CRI	Color Temp.	Housing Color	Light Distribution	Operating Temp. Range	Rated Life	H	W	Item No.
Exo											
Fresno Series											
27	120 to 277V AC	1,095 lm	70	5000K	Dark Bronze	Cont.-Asym. (Type III)	-20 to 104°F	50,000 hr.	42 in	7 in	**21RU59**
41	120 to 277V AC	1,955 lm	70	5000K	Dark Bronze	Symmetrical	-20 to 104°F	50,000 hr.	42 in	7 in	**21RU65**
Hadco											
DB Series											
9.5	120V AC	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr	14 in	6 in	**53UM38**
9.5	120V AC	800 lm	75	2700K	Black	360°	25° to 40°C	25,000 hr	21 in	6 in	**53UM39**
9.5	120V AC	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr	21 in	6 in	**53UM40**
9.5	120V AC	800 lm	75	2700K	Black	360°	25° to 40°C	25,000 hr	31 ¾ in	6 in	**53UM41**
9.5	120V AC	800 lm	75	2700K	Bronze	360°	25° to 40°C	25,000 hr	31 ¾ in	6 in	**53UM42**
9.5	120V AC	800 lm	75	2700K	Black	360°	25° to 40°C	25,000 hr	14 in	6 in	**53UM37**

53UM42

21RU59

38NH72

38NH74

38NH75

451W36

LED Outdoor Solar Lights

DESIGNERS EDGE

Solar lights are powered by sunlight to provide illumination of outdoor areas, eliminating the need for a power supply and reducing energy costs. Solar panels or cells absorb sunlight during the day to charge the batteries, which power LED lamps at night.

Item	Color Temp.	Lumens	Sensor Type	Fixture Wattage	Voltage	Fixture Mounting Location	Fixture Housing Color	Item No.
Designers Edge								
Solar Light	6,500 K	319 lm	—	7 W	1.6V AC	—	Black	**38NH72**
Solar Light	6,500 K	35 lm	Motion	5.5 W	1.2V AC	Pole	Black	**38NH74**
Solar Light	6,500 K	270 lm	Motion	13.5 W	3.6V DC	Wall	Black	**38NH75**
Invid Tech								
Solar Light	6,000 K	500 lm	Motion	3.7 W	3.7V AC	Wall	Black	**451W36**
Solar Light	6,000 K	1,100 lm	Motion	8.1 W	3.2V AC	Wall	Silver	**451W37**

451W37

44MH80

44MG51

44MH96

Traditional Canopy Lights

These canopy lights project a downward beam of light to improve visibility in building entrances with extended entryways or overhangs, such as gas stations, schools, and office complexes. They use incandescent lamps, which can withstand inclement weather and dense fog. They typically cost less than LED canopy lights but consume more power and have a shorter lifespan. **Traditional Low-Profile Canopy Lights** have a slim design that provides more clearance with a height of 5" or less from the ceiling to the base of the fixture. **Traditional Standard Canopy Lights** have a height of 5" or greater from the ceiling to the base of the fixture.

Fixture Wattage	Voltage	Lamp Type	Light Technology	H (in.)	Lamp Incl.	Item No.
Traditional Low-Profile Canopy Lights						
Square						
60 W	120V AC	A19	Incandescent	5 in	No	**44MH80**
	120V AC	A19	Incandescent	4 ¾ in	No	**44MH96**
Traditional Standard Canopy Lights						
Round						
60 W	120V AC	A19	Incandescent	6 ¼ in	No	**44MG51**

53UM59

34VE72

3GPE7

44MN33

Deck and Step Lights

Decorative fixtures provide accent lighting for decks and stairways to add visual interest and increase overall visibility. **Deck Lights** can be mounted on railings, stairs, or posts and are typically used to illuminate decks, patios, exterior stairways, and landscaped areas. **Step Lights** install above or to the sides of steps to help pedestrians see the steps at night.

Lumens	Color Temp.	Voltage	Housing Color	Fixture Housing Material	Light Distribution	L	H	W	Brand	Item No.
LED Outdoor Deck Lights										
Color Temperature: 3000K										
105 lm	3000K	12V AC	Black	Aluminum	Type I	1 ⅞ in	3 ½ in	3 ½ in	Hadco	**53UM53**
105 lm	3000K	12V AC	Black	Polymer	Type I	1 ⅞ in	3 ½ in	3 ½ in	Hadco	**53UM59**
105 lm	3000K	12V AC	Bronze	Polymer	Type I	1 ⅞ in	3 ½ in	3 ½ in	Hadco	**53UM61**
LED Step Lights										
Color Temperature: 3500K										
149 lm	3500K	120V AC	Black	—		4 ½ in	2 ¾ in	1 ½ in	Chloride	**34VE72**
Color Temperature: 3000K										
61 lm	3000K	120 to 277V AC	Black	—		9 ⅜ in	3 ½ in	4 ½ in	Kim Lighting	**3GPE7**
167 lm	3000K	120 to 277V AC	Black	—		9 ⅜ in	3 ½ in	4 ½ in	Kim Lighting	**3GPE8**
61 lm	3000K	120 to 277V AC	Bronze	—		9 ⅜ in	3 ½ in	4 ½ in	Kim Lighting	**3GPE9**
167 lm	3000K	120 to 277V AC	Bronze	—		9 ⅜ in	3 ½ in	4 ½ in	Kim Lighting	**3GPF1**
65 lm	3000K	120V AC	White	—		2 ¼ in	4 ¾ in	3 in	Progress Lighting	**44MN33**

13K520

503Y46

Landscape & Pool/Spa Lighting Transformers

These outdoor transformers convert AC supply voltage to low voltage for efficient operation of landscape lights and underwater pool and spa lights. Select the power (maximum wattage) of the transformer that will accommodate the sum of the fixture watts being used in a particular landscape design.

Max. Wattage	Input Voltage	Output Voltage	Color	Encl. Material	Item No.
Intermatic					
100 W	120V AC	12V AC	Sand	Electrostatically Painted Steel	**13K520**
100 W	120V AC	12V AC	Silver	Stainless Steel	**13K521**
300 W	120V AC	12V AC	Sand	Electrostatically Painted Steel	**13K522**
300 W	120V AC	12V AC	Brown	Stainless Steel	**13K523**
600 W	120V AC	12V AC	Sand	Electrostatically Painted Steel	**13K524**
600 W	120V AC	12V AC	Silver	Stainless Steel	**13K525**
Tork					
100 W	120V AC	12V AC, 13V AC	Beige	Electrostatically Painted Steel	**503Y45**
100 W	120V AC	12V AC, 13V AC	Silver	Stainless Steel	**503Y46**
300 W	120V AC	12V AC, 13V AC, 14V AC	Beige	Electrostatically Painted Steel	**503Y47**
300 W	120V AC	12V AC, 13V AC, 14V AC	Silver	Stainless Steel	**503Y48**

23M539

Landscape Lighting Wire

- 2 stranded copper conductors
- 150V
- Black PVC insulation/jacket

This low-voltage wire connects a power supply to outdoor landscape lights and is typically buried underground. It has a multistrand conductor and a weather-resistant jacket that can withstand harsh conditions both above and below ground.

Wire Size	Nominal O.D.	50 ft Item No.	100 ft Item No.	250 ft Item No.	500 ft Item No.
Landscape Lighting Wire					
16 AWG	0.31 in x 0.16 in	**24W818**	**24W819**	**23M541**	—
14 AWG	0.35 in x 0.17 in	**24W816**	**23M540**	—	**24W817**
12 AWG	0.39 in x 0.20 in	—	**24W813**	**23M539**	**24W815**
10 AWG	0.21 in x 0.41 in	—	—	**55CX79**	**55CX80**

24K351

45NL39

24K352

422V01

453A35

55MJ56

422V08

3RB23

56JD43

Job Site Lights

- 120VAC
- Lamp Included

Lamp Watts	No. of Lamp Heads	Lumens	Cord Length	Std.	Brand	Item No.
LED						
Floor Stand						
15 W	1	1440	5 ft	cUL	Prolight	**422V12**
15 W	1	550 to 1100	—	CEC, DOE	LumaPro	**40KG18**
16 W	1	600	16 ft	CSA	LumaPro	**24K351**
30 W	1	3400	5 ft	—	Southwire	**61KJ95**
32 W	2	1200	16 ft	CSA	LumaPro	**24K352**
40 W	1	5600	50 ft	cULus	Lind Equipment	**785TX1**
50 W	2	13000	5 ft	cUL	Probuilt	**45NL39**
80 W	3	8000	10 ft	cETLus	Southwire	**61KH50**
120 W	1	15000	5 ft	cUL	Prolight	**422V01**
200 W	1	24000	50 ft	cULus	Lind Equipment	**785TX4**
—	1	600	—	UL Listed	Ability One	**45EU46**
—	1	10000/8300/6300/4500/2300	10 ft	CEC Compliant	Streamlight	**55MJ56**
—	1	6000	16 ft	—	Southwire	**61KJ97**
—	1	3000	5 ft	ETL	Southwire	**787MC9**
Hanging						
60 W	1	7,200 lm	6 ft	UL Listed for Damp Locations	Southwire	**453A35**
80 W	1	7600	5 ft	cUL	Hang-A-Light	**422V08**
100	1	12,000 lm	6 ft	UL Listed for Damp Locations	Southwire	**453A36**
100 W	1	13000	10 ft	—	Southwire	**61KK01**
150 W	1	19500	10 ft	—	Southwire	**61KK02**
Magnetic						
30 W	1	3000	5 ft	cUL	Prolight	**422U99**
60 W	1	6000	5 ft	cUL	Hang-A-Light	**422V11**
Tripod						
120 W	1	15250	3 ft	CE, cETLus	Lind Equipment	**785TW9**
Yoke						
150 W	1	15000	5 ft	cUL	Prolight	**422V03**
220 W	1	22000	5 ft	cUL	Prolight	**422V04**
300 W	1	30000	5 ft	cUL	Prolight	**422V05**
HID						
Floor Stand						
70 W	1	3754	6 ft	—	LumaPro	**3RB23**
Hanging						
400 W	1	42000	6 ft	cUL, NEC, UL	Hang-A-Light	**5GDZ4**
Fluorescent, LED						
Floor Stand						
60 W	1	6300	10 ft	cUL	Southwire	**56JD43**

422V07

24K354

45NL40

422V02

61KJ99

785TX3

Tripod Lights

- 120VAC
- Lamp Included

Lamp Watts	No. of Lamp Heads	Lumens	Max. Extension Height	Cord Length	NEC Cord Designation	NEMA Plug Config.	Std.	Brand	Item No.
LED									
15 W	1	1440	62 in	5 ft	SJTW	5-15P	cUL	Prolight	**422V13**
16 W	1	600	73 in	16 ft	SJTOW	5-15P	CSA	LumaPro	**24K353**
30 W	1	2400	62 in	Not Applicable	—	5-15P	cUL	Prolight	**422V07**
30 W	2	2880	62 in	5 ft	SJTW	5-15P	cUL	Prolight	**422V14**
32 W	2	1200	73 in	16 ft	SJTOW	5-15P	CSA	LumaPro	**24K354**
40 W	1	5600	11 in	50 ft	SOOW	5-15P	cULus	Lind Equipment	**785TX2**
40 W	1	5600	11 in	50 ft	SOOW	5-15P	cULus	Lind Equipment	**785TX3**
50 W	2	13000	84 in	5 ft	SJTW	5-15P	cUL	Prolight	**45NL40**
80 W	3	8000	6 ft	10 ft	SJTW	5-15P	cETLus	Southwire	**61KH51**
120 W	1	15000	87 ¾ in	5 ft	SJTW	5-15P	cUL	Prolight	**422V02**
200 W	1	24000	14 in	50 ft	SOOW	5-15P	cULus	Lind Equipment	**785TX5**
Halogen									
500 W	—	8000	51 in	5 ft	—	—	—	Southwire	**61KJ99**

22FH94

52YK79

2YKN3

52XF16

5WYC3

5WYA3

40KG17

Hand Lamps

- 120V

Incandescent models do not include lamp.

Cord Length	Lamp Watts	Lumens	Color	Includes	NEMA Plug Config.	NEC Cord Designation	Std.	Brand	Item No.
LED									
Battery Operated, Rechargable,									
Not Applicable	15 W	1100 lm; 500 lm; 320 lm; 300 lm	Black/Yellow	AC and DC Power Supply/Hook	5-15P	Not Applicable	CE Certified, cETLus	Lind Equipment	785TW7
Hand Lamp									
10 ft	3.6 W	340	Black/Red	(2) Hooks, 60 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	22FH94
	4.5 W	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	52YK79
25 ft	4.5 W	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	2YKN1
	6.5 W	450	Black/Gray	Hook, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	2YKN5
	7.5 W	500	Black/Gray	(1) Magnet, (2) Hooks	1-15P	SJT	cETLus	LumaPro	2YKN3
	—	1200/600	Yellow	Hook, Magnet	1-15P	SJT	ETLus	Bayco	52XF16
50 ft	3.6 W	340	Black/Red	(2) Hooks, 60 Surface Mount LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	22FH96
	4.5 W	300	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	2YKN2
	5.4 W	400	Black/Red	(2) Hooks, 90 LED Unit	1-15P	SJTOW	UL Adaptor	LumaPro	22FJ01
	6.5 W	450	Black/Gray	Hook, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	2YKN6
	7.5 W	500	Black/Gray	(2) Hooks, Magnet	1-15P	SJT	cETLus	LumaPro	2YKN4
Rechargeable Hand Lamp									
Cordless	2.4 W	180	Black/Red	Adaptor, USB Cord	1-15P	—	UL Adaptor	LumaPro	40KG16
	3 W	300	Black/Gray	(2) Hooks, Adaptor, Li-ion Battery, Magnet	—	—	cETLus	LumaPro	52YK80
	3.8 W	320	Black/Red	(2) Hooks, 64 Surface Mount LED Unit	1-15P	—	UL Charger	LumaPro	22FJ03
	100 W	—	Black/Red	Car Charger, Wall Charger	—	—	UL Charger	Ability One	45EU44
	—	200/170	Orange	(1) Battery, AC/DC Chargers, Hook, Magnet	1-15P	—	—	Nightstick	8YUX7
	—	600/225	Red	AC and DC Power Supply/Hook	—	—	UL Listed	Nightstick	52XF14
	—	600/225	Black	AC and DC Power Supply/Hook	—	—	UL Listed	Nightstick	52XF15
	—	230/32	Black/Red	AC & DC Power Supply/Charger, Light, Magnetic Hook	1-15P	—	CE	Nightstick	35HY79
	—	200	Black/Red	Car Charger, Wall Charger	—	—	UL Charger	Ability One	45EU45
Fluorescent									
Hand Lamp									
6 ft	13 W	—	Yellow	Hook	1-15P	SJT	ETL	Bayco	39AM82
25 ft	8 W	180	Yellow	Hook	1-15P	SJT	UL (E71937)	LumaPro	3X734
	13 W	350	Yellow	Hook, Magnet	5-15P	SJT	UL (E71937)	LumaPro	4XP72
	13 W	1800	Yellow	Hook, In-Line Magnetic Ballast	5-15P	SJOW	FM	KH Industries	5WYC3
	13 W	—	Black	Hook	1-15P	SJT	—	Bayco	3LGX2
	15 W	350	Yellow	Adjustable Hook, Fluorescent Lamp	5-15P	SJT	UL (E71937)	LumaPro	6X971
	15 W	—	Yellow	Magnetic Mounting Clips	5-15P	SJOW	FM	KH Industries	39AM98
	26 W	720	Yellow	(2) Hooks, CFL Lamp, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	5NRX9
50 ft	26 W	720	Yellow	(2) Swivel Hooks, CFL Lamp, Magnet, Outlet	5-15P	SJT	cETLus	LumaPro	5NRX6
Hazardous Location Hand Lamp Safety Rating Class I, Div. 1, Group C, D, F, G									
25 ft	26 W	1,800 lm	Black/Yellow	—	5-15P	SOOW	CSA/US, NEMA 4	KH Industries	5WYA3
50 ft	26 W	1,800 lm	Black/Yellow	—	5-15P	SOOW	CSA/US, NEMA 4	KH Industries	5WYA4
Incandescent									
Hand Lamp									
25 ft	75 W	600	Black/Yellow	Guard, Hook	1-15P	SJT	UL (E110409)	LumaPro	2W244
	75 W	—	Yellow	Hook	1-15P	SJT	ETL	Bayco	39AM81
	100 W	800	Black/Silver	Guard, Hook	5-15P	SJT	UL (E110409)	LumaPro	2W243
	100 W	800	Black/Silver	Circuit Breaker, Hook, Metal Guard, Outlet	5-15P	SJTOW	cULus (E110409)	LumaPro	4V346
	100 W	800	Black/Yellow	Circuit Breaker, Hook, Metal Guard, Outlet	5-15P	SJT	UL (E110409)	LumaPro	4XP70
LED/UV									
Rechargeable Hand Lamp									
Cordless	3 W	240	Black	Adaptor, USB Cord	1-15P	—	UL Adaptor	LumaPro	40KG17

2YKP6

1W943

Cord Reel with Hand Lamp

- 120V

Incandescent models do not include lamp.

Cord Ending	Cord Length	Lamp Watts	Gauge/ Conductor	Item No.
LED Lamp with Receptacle	25 ft.	7.0	16/3	2YKR1
LED Lamp	25 ft.	2.4	18/2	2YKP6
	40 ft.	3.2	18/2	2YKP9
Incandescent Lamp with Receptacle	20 ft.	75	18/3	1A135
	25 ft.	75	16/3	1W943
	50 ft.	75	18/3	6X756

15D964

44M834

32GD96

5RZY6

423L16

FoxFury Lighting Solutions · NightSearcher by ProBuilt · Pelican

LED Remote-Area Lights

Weather-resistant systems illuminate remote locations.

FoxFury—Quick-deploy area/spotlights are waterproof to 9.8 ft. Included AC or DC cables can be used to drive the system directly, or to recharge the battery. 44M834 and 44ZY99 offer 360° scene, 120° area, and 12° spotlight.

Pelican—The practical, durable, watertight design packs an LED lighthead mounted in an aluminum heat sink into a single case. Tough injection-molded ABS glass-filled nylon housing with telescoping mast and 360° articulated light arrays stands up to tough field use. Includes 110V charger.

Lamp Watts	No. of Lamp Heads	Lumens	Run Time	Cord Length	Max. Extension Height	Std.	Battery Chemistry	Color	Mfr. Model	Item No.
FoxFury										
30 W	1	3000/1200/500	3/9/24 hr	10 ft	8 ¾ in	CE-EMC, CE-LV	Lithium Ion	Black	200-400-100	**44ZZ02**
75 W	1	5000/2000/600	3/9/24 hr	10 ft	96 in	CE-EMC, CE-LV	Lithium Ion	Black	200-800	**15D964**
100 W	1	8000/2400/900	3/9/24 hr	10 ft	102 in	CE-EMC, CE-LV	Lithium Ion	Black	200-900	**44M834**
240 W	1	16000/7000/3000	3/9/24 hr	20 ft	150 in	CE-EMC, CE-LV	NiMH	Black	200-1200	**44ZY99**
Night Searcher										
120 W	1	14000/6000/3500/1000	1.5/3/7/36 hr	8 ft	52 in	—	Lithium Ion	Black	511000LITH	**32GD96**
Pelican										
1.2 to 2.4 W	1	5300/2800/1400	⅜ hr	—	85 in	CE	NiMH	Black	9440-B	**5RZY2**
24 W	1	2000/1000	8/15 hr	1.6 ft	32 ¼ in	CE	Sealed Lead Acid	Black	9430SL-B	**5RZY6**
—	1	3000/1500	8/15 hr	1 ft	32 ¼ in	CE	Sealed Lead Acid	Black	9430	**30PK09**
—	1	3000/1500	8/15 hr	1 ft	32 ¼ in	CE	Sealed Lead Acid	Yellow	9430	**30PK10**
—	2	12000/500	7/40 hr	1 ft	70 ¾ in	CE	Sealed Lead Acid	Yellow	9460M	**30PK12**
106 W	2	12000	3/9/24 hr	13 ft	79 in	CE	Sealed Lead Acid	Black	094600-0012-110	**423L16**
212 W	4	24000	3.5/24 hr	13 ft	81 in	CE	Sealed Lead Acid	Black	094700-0012-110	**423L17**
212 W	4	24000	3.5/24 hr	13 ft	81 in	CE	Sealed Lead Acid	Yellow	094700-0012-245	**423L18**
21 W	1	1600	5/10 hr	12 ft	32 in	CE, cETLus, Class I, Div. 1	NiMH	Yellow	094550-0000-245	**423L19**
212 W	4	24000	3/9/24 hr	13 ft	81 in	CE	Sealed Lead Acid	Yellow	094700-0002-245	**429J07**
106 W	2	12000	3/9/24 hr	13 ft	79 in	CE	Sealed Lead Acid	Yellow	094600-0002-245	**429J08**
106 W	2	12000	3/9/24 hr	13 ft	79 in	CE	Sealed Lead Acid	Black	094600-0002-110	**429J09**
—	1	6000	3.5/24 hr	1 ft	72 in	—, —	Sealed Lead Acid	Black	094900-0000-110	**43MJ60**
212 W	4	24000	3/9/24 hr	13 ft	81 in	CE	Sealed Lead Acid	Black	094700-0002-110	**429J05**
45 W	1	5300	8 hr	13 ft	85 in	CE	Lithium Ion	Yellow	094400-0001-245-G	**429J03**

422V06

8MU19

Self-Righting Work Lights

Wobblelight by ProBuilt

- 120V
- Polycarbonate dome protects bulb
- Project light in 20- to 100-ft. dia. arc, depending upon bulb wattage

Self-righting bases cannot be knocked over, for stable lighting with no bulb breakage. Require no setup; just plug in. Internal ventilation system keeps lights cool to the touch.

Lighting Technology	Lamp Watts	Lumens	Height	Mfr. Model	Item No.
LED	80 W	9000	27 in	111206	**61KJ94**
LED	200 W	15000	32 in	111303LED	**422V06**
Fluorescent	85 W	5000	24 in	111205	**8MU19**
HID	400 W	40000	36 in	111104PS	**2LTE9**
180° Reflector Shield for Wobblelights				111808	**2WA36**
Replacement Lamp for No. 2LTE8				111901	**1ANE1**
Replacement Lamp for No. 2LTE9				111903	**1ANE3**
Replacement Lamp for No. 8MU19				111908	**1XFK9**
Replacement Lamp for No. 3KYL8				111904	**3KYN8**

14V992

14V990

CEP CONSTRUCTION ELECTRICAL PRODUCTS   HANG-A-LIGHT

Temporary Job Site LED String Lights

- 50,000 hr. lamp life
- Very low heat output

High impact-resistant highly efficient LED lighting allows for up to 750 ft. continuous connections. Outdoor approved for wet locations.

Cord Length	No. of Lamp Heads	Lamp Watts	Gauge/ Conductor	NEC Cord Designation	NEMA Plug Config.	Color	Std.	Item No.
Southwire								
20 ft	1	6.6 W	18/2	SJTW	1-15P	Yellow	cETLus	**14V992**
50 ft	5	6.6 W	18/2	STW	1-15P	Yellow	cETLus	**14V991**
100 ft	10	6.6 W	18/2	STW	1-15P	Yellow	cETLus	**14V990**
Hang-A-Light								
100 ft	10	140 W	12/3	STW	5-15P	Black/Yellow	cUL	**458L12**

Description	For Use With	Color	Brand	Item No.
String Light Accessories				
Replacement Magnetic Bracket	LED Light Stringers	Black	Southwire	**14V993**
90 LED Replacement Panel Light	LED Light Stringers	Yellow	Southwire	**14V995**
Steel Wire Guard	String Lights	Black	Hang-A-Light	**458L15**
Plastic Wire Guard	String Lights	Yellow	Hang-A-Light	**458L16**

444P61

Balloon Work Lights

- 5-15P NEMA plug
- Avg. rated life: 50,000 hr.

Lights have bright LED diodes, housed in a fiberglass housing for glare-free illumination and no bulb breakage. They set up easily; fold open like an umbrella, plug in and turn on. All include a carrying case and tie down set. 444P62, 444P66, and 444P61 include a tripod stand; 444P63, 444P64, and 444P66 have a hanging loop. 444P65 features solar panel and solar controller.

Lamp Watts	Voltage	Lumens	Max. Extension Height	Light Distribution	Cord Length	Power Source	IP Rating	Item No.
Black/Orange								
380 W	110/230 V AC	40000	145 in	360°	25 ft	Corded (AC)	IP44	**444P62**
600 W	110 V AC	75000	26 in	360°	25 ft	Corded (AC)	IP54	**444P63**
600 W	110 V AC	75000	144 in	360°	23 ft	Corded (AC)	IP54	**444P66**
1000 W	110 V AC	110000	26 in	360°	25 ft	Corded (AC)	IP54	**444P64**
1000 W	110 V AC	110000	144 in	360°	25 ft	Corded (AC)	IP54	**444P61**
Black/Silver								
160 W	110 V AC	19200	136 in	Flood	25 ft	Dual (AC/DC)	IP67	**444P65**

38W587   2V647   38W574

5AY60

38W596

BAYCO® Life Depends on Light™   LumaPro

Clamp-On Job Site Lights

Max. Lamp Watts	Housing Dia.	Lamp Incl.	Type	Cord Length	Gauge/ Conductor	NEMA Plug Config.	Color	Brand	Item No.
75 W	Shade -5.5 in	No	Clamp	6 ft	18/2	—	Silver	Bayco	**38W587**
150 W	Shade -8.5 in	No	Clamp	12 ft	18/2	1-15P	Silver	LumaPro	**2V647**
150 W	Shade -8.5 in	No	Clamp	6 ft	18/2	—	Silver	Bayco	**38W574**
300 W	Shade -7.5 in	No	Clamp	8 ft	18/3	5-15P	Silver	LumaPro	**5AY60**
300 W	Shade -10.5 in	No	Clamp	6 ft	18/2	—	Silver	Bayco	**38W596**

61KH52

785TU3

9DPR0

Southwire®

Portable Cart-Mounted Lights

- 120V
- SJTW cords
- 5-15P NEMA plug configuration

Extremely strong, compact light heads are mounted on a heavy-duty steel yoke for impact resistance. Great for use in aircraft construction, automotive repair, and other maintenance and construction areas.

Lamp Watts	No. of Lamp Heads	Lumens	Max. Extension Height	Cord Length	Rated Life	Brand	Item No.
LED							
50 W	2	11000	120 in	12 ft	50,000 hr	Southwire	**61KH52**
200 W	1	22000	120 in	12 ft	30,000 hr	Southwire	**785TU3**
400 W	2	44000	144 in	12 ft	30,000 hr	Southwire	**785TU4**
HID							
1000 W	1	110000	144 in	8 ft	10,000 hr	Bulldog	**9DPR0**
2000 W	2	220000	144 in	8 ft	10,000 hr	Warner Tool Products	**9UCE8**

40D470

24K343

52YK85

5AY51

5AY53

24K347

PHILIPS Day-Brite

Dock Lights

Lamp Watts	Voltage	Lumens	No. of Arms	Arm Length	Cord Length	Lighthead Material	Switch Type	Std.	Brand	Dock Light Item No.	Dock Light Replacement Head Item No.	Dock Light Grill Item No.
LED												
15 W	120 V	788 lm	1	32 in	7.5 ft	Aluminum	Toggle	ETL Listed for damp locations	Daybrite	**40D470**	—	—
15 W	277 V	788 lm	1	32 in	7.5 ft	Aluminum	Toggle	ETL Listed for damp locations	Daybrite	**40D472**	—	—
15 W	120 V	788 lm	1	42 in	7.5 ft	Aluminum	Toggle	ETL Listed for damp locations	Daybrite	**40D471**	—	—
15 W	277 V	788 lm	1	42 in	7.5 ft	Aluminum	Toggle	ETL Listed for damp locations	Daybrite	**40D473**	—	—
16 W	120 V	650 lm	2	40 in	16 ft	Aluminum	Push Button	CSA	LumaPro	**24K343**	**24K347**	—
38 W	120 V	4,100 lm	2	40 in	10 ft	Aluminum	On/Off Switch	UL, cUL	LumaPro	**52YK85**	**52YK83**	—
38 W	120 V	4,100 lm	2	60 in	10 ft	Aluminum	On/Off Switch	UL, cUL	LumaPro	**52YK84**	**52YK83**	—
Incandescent												
150 to 300	120 V	—	2	40 in	10 ft	Aluminum	Push Button	cUL, UL	LumaPro	**5AY51**	**24K346**	**24K349**
150 to 300	120 V	—	2	60 in	10 ft	Aluminum	Push Button	cUL, UL	LumaPro	**5AY52**	**24K346**	**24K349**
Quartz Halogen												
500	120 V	4,500 lm	2	40 in	10 ft	Aluminum	Push Button	cUL, UL	LumaPro	**5AY53**	**24K348**	—
500	120 V	4,500 lm	2	60 in	10 ft	Aluminum	Push button	cUL, UL	LumaPro	**24K345**	**24K348**	—

31KZ64

31KZ70

Hazardous Location Temporary Job Lights

Portable lighting provides a safe solution that is flexible and easy to manage in dangerous and confined spaces.

TEMPORARY JOB SITE LIGHTS

Feature a light head, mounted to a unit that is fabricated from nonsparking aluminum and hardware.

TEMPORARY STRING LIGHT

Ten durable hand-held lamps are connected in series. Designed with an eyelet hook for easy suspension. Resists damage from chemicals, abrasions, vibrations and impact.

Base Style	Lamp Type	Lumens	Lamp Watts	Lamp Type	Guard Type	Features	Includes	Mfr. Model	Item No.
Temporary Job Site Light									
J Hook Scaffold, Ladder, Rail	LED	12000	150 W	LED	Tempered Glass	Aluminum Ladder/Rail J-Bracket Mounting	Adjustable Scaffold Mount, Cord, EXP Plug, Light Head	EPL-JH16C-1MLED-100	**31KZ69**
Cart	LED	12000	150 W	LED	Tempered Glass	Non Sparking Aluminum Cart Mounting	Cord, EXP Plug, Light Head, Wheeled Cart	EPL-16C-1MLED	**31KZ64**
	HID	36000	400 W	HID	Polycarbonate	Non Sparking Aluminum Cart Mounting, T3B operating temperature range	Cord, EXP Plug, Light Head, Wheeled Cart	EPL-24C-1X4	**31KZ65**
Floor Stand	LED	29580	300 W	LED	Tempered Glass	Steel Square Tube Quadpod Mounting, 60 Degree Flood Pattern, Lighting Configuration	Cord, EXP Plug, Quadpod Tower, Wheel Kit	HAL-QP-2X150LED-100	**31KZ68**
String	LED	8600	100 W	LED	Tempered Glass	—	10 Hand Lamps, EXP Plug	EPL-SL-10-LED-1227	**31KZ70**

5NKU4

WF Harris Lighting
Innovative Lighting Designs Since 1970

Vandal-Resistant Lights

- Vandal-, impact-, and corrosion-resistant

Portable work lights contain heavy-duty magnets and eyebolt. Safety yellow nonconductive housing. Clear polycarbonate lenses provide optimal lumen output; LED models feature a frosted lens, while all others have a prismatic lens. Great for shipbuilding, maintenance, aircraft assembly, mining, and other production areas.

Lamp Watts	Lumens	Height	Lamp Incl.	Cord Length	NEC Cord Designation	NEMA Plug Config.	Color	Item No.
LED								
14 W	1200	10 in	Yes	6 ft	SJTOW	5-15P	Yellow	**5NKU4**
Fluorescent								
42 W	3200	10 in	Yes	6 ft	SJTOW	5-15P	Yellow	**5NKU5**

32PE57

36NC01

36NA92

52XP81

53CJ19

32PE42

Magnifier Lights

Watts	Diopter	Magnification	Lens Dia.	Dimmable	Magnifier Shape	Arm Length	Overall Length	Color	Brand	Item No.
Clamp Base										
LED/UV										
6 W	5	2.25x	7.5 in	Yes	Rectangular	36 in	36 in	Black	Aven	**56FT43**
8 W	4	2x	7 in x 5.25 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA94**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA95**
12.6 W	3	1.75x	7 in	Yes	Round	18 in	36 in	White	LumaPro	**32PE57**
LED										
4 W	4	2x	6 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA76**
	4	2x	6 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA77**
5 W	3	1.75x	7 in	No	Round	16 in	32 in	Black	LumaPro	**10C906**
	3	1.75x	7 in	No	Round	16 in	32 in	White	LumaPro	**10C907**
6 W	3.5	1.88x	6.7 in x 4.5 in	Yes	Rectangular	45 in	45 in	Gray	Vision-Luxo	**21EN79**
	5	2.25x	6.7 in x 4.5 in	Yes	Rectangular	45 in	45 in	Gray	Vision-Luxo	**21EN82**
	3.5	1.88x	6.7 in x 4.5 in	Yes	Rectangular	45 in	45 in	Black	Vision-Luxo	**21EN85**
	5	2.25x	6.7 in x 4.5 in	Yes	Rectangular	45 in	45 in	Black	Vision-Luxo	**21EN88**
	8	3x	5 in	Yes	Round	36 in	36 in	White	Aven	**469K23**
	5	2.25x	5 in	Yes	Round	36 in	36 in	Black	Aven	**787KF5**
	5, 12	2.25x, 4x	3 ¾ in	Yes	Round	36 in	37 in	Black	Aven	**787KF6**
	5, 15	2.25x, 4.75x	3 ¾ in	Yes	Round	36 in	38 in	Black	Aven	**787KF7**
	5, 8	2.25x, 3x	5 in	Yes	Round	36 in	39 in	Black	Aven	**787KF8**
	3	2.25x	5 in	No	Round	36 in	50 in	White	Aven	**9V313**
7 W	3	1.75x	7 in x 5.3 in	No	Rectangular	32 in	—	Black	LumaPro	**6MNT5**
	3	1.75x	7 in x 5.3 in	No	Rectangular	32 in	—	White	LumaPro	**6MNT6**
7.6 W	3	1.75x	7.5 in x 6.2 in	No	Rectangular	18 in	36 in	White	LumaPro	**32PE45**
	5	2.25x	7.5 in x 6.2 in x 8.7 in	No	Rectangular	18 in	36 in	White	LumaPro	**32PE47**
8 W	4	2x	7.5 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA82**
	4	2x	7.5 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA83**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA88**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA89**
	5	1.75x, 2.25x	5 in	Yes	Round	36 in	36 in	White	Aven	**469K24**
	8	2.25x, 3x	5 in	Yes	Round	36 in	36 in	White	Aven	**469K25**
9 W	3	1.75x	5 in	Yes	Round	45 in	45 in	Gray	Vision-Luxo	**22EN51**
	5	2.25x	5 in	Yes	Round	45 in	45 in	Gray	Vision-Luxo	**22EN52**
	3	1.75x	5 in	Yes	Round	45 in	45 in	Gray	Vision-Luxo	**460K95**
	5	2.25x	5 in	Yes	Round	45 in	45 in	Gray	Vision-Luxo	**460K96**
	3	1.75x	5 in	Yes	Round	30 in	30 in	Gray	Vision-Luxo	**460K97**
	5	2.25x	5 in	Yes	Round	30 in	30 in	Gray	Vision-Luxo	**460K98**
9.4 W	3	1.75x	5 in	No	Round	16 in	32 in	White	LumaPro	**32PE50**
	3	1.75x	5 in	No	Round	16 in	32 in	Black	LumaPro	**32PE51**
	5	2.25x	5 in	No	Round	16 in	32 in	White	LumaPro	**32PE52**
	5	2.25x	5 in	No	Round	16 in	32 in	Black	LumaPro	**32PE53**
10 W	3	1.75x	7.5 in x 6.2 in	Yes	Rectangular	36 in	46 in	White	Aven	**53CJ18**
12 W	3.5	1.88x	6.3 in	Yes	Round	31 in	31 in	Gray	Waldmann	**482P51**
12.6 W	3	1.75x	7 in	Yes	Round	18 in	36 in	White	LumaPro	**32PE56**
14 W	5	2.25x	5 in	Yes	Round	36 in	—	Silver	Aven	**55MY92**
—	3	1.75x	7 in	Yes	Round	35 in	50 in	Ivory	Aven	**19MT16**
Fluorescent										
34 W	3	1.75x	7.5 in x 6.3 in	No	Rectangular	37 in	45 in	Black	O.C. White	**36NC01**
	3	1.75x	7.5 in x 6.3 in	No	Rectangular	37 in	45 in	Beige	O.C. White	**36NC02**
Screw Down Base										
LED/UV										
8 W	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA92**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA93**
LED										
4 W	4	2x	6 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA74**
	4	2x	6 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA75**
6 W	6	2.5x	2.8 in	—	Round	15 ¾ in	16 in	Black, Silver	Waldmann	**52XP81**
8 W	4	2x	7.5 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA80**
	4	2x	7.5 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA81**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA86**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA87**
10 W	5	2.25x	7.5 in x 6.2 in	Yes	Rectangular	36 in	46 in	Black	Aven	**53CJ19**
Fluorescent										
34 W	3	1.75x	7.5 in x 6.3 in	No	Rectangular	37 in	45 in	Black	O.C. White	**36NA98**
	3	1.75x	7.5 in x 6.3 in	No	Rectangular	37 in	45 in	Beige	O.C. White	**36NA99**
Weighted Base										
LED/UV										
8 W	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA96**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA97**
LED										
4 W	4	2x	6 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA78**
	4	2x	6 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA79**
5.4 W	3	1.75x	3.5 in	No	Round	12 in	13 ¾ in	Black	LumaPro	**10C905**
6 W	3	2.25x	5 in	Yes	Round	36 in	36 in	White	Aven	**469K22**
	5	1.75x	4 in	No	Round	11 in	11 in	White	Aven	**469K26**
7.6 W	3	1.75x	7.5 in x 6.2 in x 14.2 in	No	Rectangular	16 in	32 in	Black	LumaPro	**32PE42**
	5	2.25x	7.5 in x 6.2 in x 8.7 in	No	Rectangular	16 in	32 in	Black	LumaPro	**32PE43**
	3	1.75x	7.5 in x 6.2 in x 14.2 in	No	Rectangular	13 in	32 in	White	LumaPro	**32PE48**
	5	2.25x	7.5 in x 6.2 in x 8.7 in	No	Rectangular	16 in	32 in	White	LumaPro	**32PE49**
8 W	4	2x	7.5 in	Yes	Round	37 in	45 in	Black	O.C. White	**36NA84**
	4	2x	7.5 in	Yes	Round	37 in	45 in	Beige	O.C. White	**36NA85**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Black	O.C. White	**36NA90**
	4	2x	7 in x 5.3 in	Yes	Rectangular	37 in	45 in	Beige	O.C. White	**36NA91**
9.4 W	3	1.75x	5 in	No	Round	16 in	32 in	White	LumaPro	**32PE54**
	5	2.25x	5 in	No	Round	16 in	32 in	White	LumaPro	**32PE55**

30PH47

45HE77

52XP75

33HP80

52XP76

LumaPro FEDERAL SIGNAL Waldmann ENGINEER OF LIGHT. tensor

Task Lights

Versatile lights deliver strong illumination and are ideal for workstations and desktops in production, inspection, medical, and research applications.

Articulating Arm—Articulating arm system is easy to move and can be maintained in a fixed position.

Clamp-On—Lightweight lamps conveniently clip to desktops and workstations for quick and powerful light source.

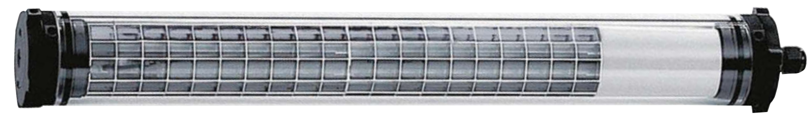
Gooseneck—Deliver bright light and have a flexible neck that allows easy adjustment to desired position.

Pivoting Head—Swivel head allows adjustment and maneuverability.

Lamp Type	Voltage	Watts	Lumens	Overall Reach	Arm Length	Mounting Type	Material of Construc.	Color	Lamp Incl.	Brand	Item No.
Articulating Arm Task Light											
Incandescent	125	60 W	320 lm	15 in	12 ½ in	Interchangeable Base	Aluminum	Gray	No	LumaPro	**5NKR5**
LED	12	5 W	398 lm	12 in	12 in	Weighted Base	Metal	Black	Yes	Federal Signal	**454W70**
	12	5 W	398 lm	18 in	18 in	Weighted Base	Metal	Black	Yes	Federal Signal	**454W71**
	24	8.5 W	600 lm	27 in	27 in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP78**
	100 to 240	15 W	650 lm	40 in	40 in	Clamp Base	Aluminum	Silver	Yes	Waldmann	**30PH47**
	100 to 240	47 W	1,950 lm	40 in	40 in	Clamp Base	Aluminum	Silver	Yes	Waldmann	**30PH49**
	100 to 240 V	24 W	1,300 lm	40 in	15 7/10 in	Blank	Aluminum	Silver	Yes	Waldmann	**785RT9**
	120	6 W	—	10 in	—	Screw-Down Base	Aluminum	Silver	Yes	Nic	**45HE77**
	120	6 W	—	18 in	17 in	Screw-Down Base	Aluminum	Silver	Yes	Nic	**45HE78**
	120	6 W	—	32 in	31 in	Screw-Down Base	Aluminum	Silver	Yes	Nic	**45HE79**
Clamp-On Task Light											
LED	100 to 240	29 W	2,400 lm	—	—	Bracket Base	Aluminum	Silver	Yes	Waldmann	**30PH50**
Gooseneck Task Light											
E26 Bulb	120	60 W	600 lm	18 in	18 in	Magnetic Base	Steel	Black/Silver	No	LumaPro	**4PD35**
Incandescent	120	25 W	250 lm	18 in	18 in	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ4**
	120	60 W	600 lm	24 in	24 in	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ2**
	120	60 W	600 lm	36 in	36 in	Bracket Base	Steel	Black/Silver	No	LumaPro	**2RPJ3**
LED	22 to 26	5 W	460 lm	18 in	23 ⅝ in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P47**
	22 to 26	5 W	460 lm	18 in	23 ⅝ in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P48**
	24	3 W	191 lm	30 in	30 ½ in	Screw-Down Base	—	Black	No	Waldmann	**3CHZ9**
	24	8.5 W	600 lm	24 in	24 in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP76**
	95 to 240	3 W	191 lm	30 in	30 ½ in	Screw-Down Base	—	Black	No	Waldmann	**3CHZ7**
	100 to 240	5.5 W	350 lm	18 in	18 in	Magnetic Base	Steel	Black	Yes	LumaPro	**33HP80**
	100 to 240	6 W	460 lm	18 in	23 ⅝ in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P49**
	100 to 240	6 W	460 lm	18 in	23 ⅝ in	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**482P50**
	100 to 240	6.5 W	290 lm	18 in	18 in	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP79**
	100 to 240	7.7 W	530 lm	23 in	23 in	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP81**
	100 to 240	7.7 W	530 lm	35 in	35 in	Screw-Down Base	Steel	Black	Yes	LumaPro	**33HP82**
Pivoting Head Task Light											
LED	24	8.5 W	600 lm	—	—	Screw-Down Base	Aluminum	Black	Yes	Waldmann	**52XP75**

3CJC7

38XM78



3PYD4

52XP79

Machine Tool Lights

Waldmann ENGINEER OF LIGHT. O.C.White Co. Illuminating Ideas & Designs Since 1883

Waldmann—Coolant-, lubricant-, and vibration-resistant tool lights are built to give you bright, dependable lighting in most volatile machining environments. LED Fixtures are waterproof, impact-resistant, and offer a variety of installation options. Waterproof fluorescent linear fixtures include a built-in electronic ballast. Fixtures have a 10-yr. warranty.

O.C. White—A solid die-cast aluminum body acts as the heat sink for the LED arrays, while a tempered safety glass and a slim, nickel-plated bezel protect the light source. If the light exceeds maximum temperature, the lamp automatically dims itself to cool down. Fixture can be easily mounted to just about any metal surface using the pre-installed high-strength neodymium magnets, or permanently affix using 4 countersunk holes. Up to 3 light fixtures can be run from a single power point. Use light on any mill, lathe, grinder, or a variety of other machines.

Voltage	Watts	Lumens	Overall Length	Includes	Cord Length	Cord Type	Average Life	Tube Material	Brand	Item No.
Linear Machine Tool Light LED										
24V AC	12 W	510 lm	11.2 in	—	10 ft	—	50,000 hr	Aluminum	Waldmann	**3CJD2** †
24V DC	12 W	510 lm	11.2 in	—	10 ft	—	50,000 hr	Aluminum	Waldmann	**3CJC7** †
24V DC	114 W	9,600 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM73**
24V DC	76 W	6,400 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM76**
24V DC	38 W	3,200 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM78**
100 to 240V AC	15 W	340 lm	14.5 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH52**
100 to 240V AC	21 W	506 lm	20.1 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH53**
100 to 240V AC	21 W	506 lm	22.2 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH54**
100 to 240V AC	27 W	657 lm	25.6 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH55**
100 to 240V AC	20 W	444 lm	31.1 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH56**
100 to 240V AC	26 W	597 lm	42.1 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**30PH57**
100 to 240V AC	114 W	9,600 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM69**
100 to 240V AC	76 W	6,400 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM71**
100 to 240V AC	38 W	3,200 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM79**
100 to 240V AC	38 W	3,000 lm	19 in	—	12 ft	AWM/SVT	50,000 hr	Aluminum	O.C. White	**38XM72**
Tubular Machine Tool Light Fluorescent										
100 to 277V AC	24 W	2,000 lm	19.5 in	—	—	—	20,000 hr	Acrylic	Waldmann	**3PYD4**
100 to 277V AC	24 W	2,000 lm	19.5 in	—	—	—	20,000 hr	Glass	Waldmann	**3PYD6**
110 to 230V AC	36 W	2,900 lm	21.5 in	—	—	—	20,000 hr	Acrylic	Waldmann	**3PYD8**
110 to 230V AC	36 W	2,900 lm	21.5 in	—	—	—	20,000 hr	Glass	Waldmann	**3PYE1**
120 to 277V AC	108 W	10,000 lm	67.4 in	—	—	—	20,000 hr	Glass	Waldmann	**3PYA8**
120 to 277V AC	17 W	1,400 lm	40.6 in	Cordset, Mounting Brackets	8 ft	SJOW	20,000 hr	Acrylic	Waldmann	**3PYC1**
120 to 277V AC	17 W	1,400 lm	40.6 in	Cordset, Mounting Brackets	8 ft	SJOW	20,000 hr	Glass	Waldmann	**3PYC3**
120 to 277V AC	32 W	2,900 lm	65.2 in	Cordset, Mounting Brackets	8 ft	SJOW	20,000 hr	Acrylic	Waldmann	**3PYC9**
120V AC	25 W	2,500 lm	52.6 in	Cordset, Mounting Brackets	8 ft	SJOW	20,000 hr	Acrylic	Waldmann	**3PYC5**
Tubular Machine Tool Light LED										
24V DC	5 W	480 lm	7.5 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**48RE48**
24V DC	10.5 W	1,080 lm	14.4 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**48RE49**
24V DC	16 W	1,680 lm	21.3 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**48RE50**
24V DC	21.5 W	2,280 lm	28.2 in	M12 Connector	16 ft	PUR	60,000 hr	Aluminum	Waldmann	**48RE51**
24V DC	30 W	2,300 lm	31 in	M12 Connector	16 ft	SJOW	50,000 hr	Glass	Waldmann	**52XP79**

Type	Brand	Mfr. Model	Item No.
Tubular Light Mounting Brackets, 2 Required			
Straight	Waldmann	190015019-00014930	**3PYE3**
Long L	Waldmann	SK1021019-00010286	**3PYE5**
Short L	Waldmann	190015995	**3PYE7**

† Surface mount.

EMI Milwaukee Princeton Tec Railhead Gear Streamlight Energizer Pelican Fenix LumaPro Surefire

LED Headlamps

Brand	Maximum Lumens Output	Special Light Output Mode	Light Output Modes	Mounting Type	Body Material	Body Color	Rechargeable	Batteries Included	Run Time on High Setting	Battery Size	Item No.
General Purpose											
—	16	—	—	Head Strap	Plastic	Black, Silver	No	No	20 hr	AAA	**492T31**
EMI	60	High Beam, Low Beam, Strobe	High / Low	Head Strap	Plastic	Silver	No	No	96 hr	AAA	**54DG69**
Milwaukee	350	—	High / Medium / Low	Strap	Plastic	Red	No	Yes	4 hr	AAA	**419J84**
	450	—	High / Medium / Low	Head/Helmet Strap/ Clip Magnet	Plastic	Black, Red	No	Yes	2 hr	AAA	**55JC13**
	475	—	High / Medium / Low	Head/Helmet Strap/Clip	Plastic	Red	Yes	Yes	2 hr	Proprietary	**349EU9**
	475	—	High / Medium / Low	Head/Helmet Strap/Clip	Plastic	Red	Yes	Yes	2 hr	Proprietary	**349EV2**
	600	—	High / Medium / Low / Eco	Head/Helmet Strap/ Clip Magnet	Plastic	Black, Red	Yes	Yes	2 hr	Proprietary	**55JC14**
	600	Red Light	High / Medium / Low	Head/Helmet Strap/ Clip Magnet	Plastic	Black, Red	Yes	Yes	2 hr	Proprietary	**55JC15**
	600	—	High / Medium / Low / Eco	Head/Helmet Strap/Clip	Plastic	Black	Yes	Yes	2 hr	Proprietary	**349EV0**
	600	—	High / Medium / Low / Eco	Head/Helmet Strap/Clip	Plastic	Black	Yes	Yes	2 hr	Proprietary	**349EV3**
Princeton Tec	200	—	High / Low	Head Strap	Plastic	Black	No	Yes	3 hr	AAA	**56MD44**
Railhead Gear	140	—	High / Medium / Low	—	Plastic	Black	No	Yes	10 hr	AAA	**39F122**
	450	—	High / Low	—	Plastic	Black	No	Yes	14 hr	AA	**39F123**
Streamlight	50	—	High / Low	Head Strap	Plastic	Black	No	Yes	5.5 hr	AAA	**55TA17**
General Purpose, Safety Rated: —											
Energizer	400 lm	—	7 modes: high/low/wide; night vision settings in red and green; flashing red for safety/emergencies	Head strap	—	Black	Yes	Yes	4 hr	—	**61UM50**
Hazardous Location, Safety Rated: Class I, Div. 1											
Pelican	155	—	High / Medium / Low	—	Polycarbonate	Black	No	Yes	6 hr	AAA	**43FF95**
Streamlight	250	—	High / Medium / Low	Head/Hardhat Strap/3M Dual Lock Tape	Plastic	Yellow	Yes	Yes	7 hr	Proprietary	**55MJ59**
Industrial											
Energizer	300	—	High / Medium / Low	Strap	Plastic	Red	No	Yes	8.5 hr	AAA	**40XA77**
	315	Red Light	High / Medium / Low	Strap	Plastic	Gray	No	Yes	6 hr	AAA	**40XA76**
	325	—	High / Low	Strap	Plastic	Black	No	Yes	6.5 hr	AA	**4EZD5**
Fenix Lighting	950	Red Light	Turbo / High / Medium / Low / Eco	Head Strap	Aluminum	Black	Yes	Yes	3 hr	18650	**453A30**
	1,000	Spot/Flood/Both	Floodlight: High / Medium / Low, Spotlight: Turbo / High / Medium / Low / Eco	Headband	Aluminum, Magnesium, Polycarbonate	Black	Yes	Yes	2 hr	CR123A or Li-Ion 18650	**60UL84**
	1,200	Red Light, Red Flash	Red Light: Flash / Medium / Low, White Light: Turbo / High / Medium / Low / Eco	Headband	Aluminum, Polycarbonate	Black	Yes	Yes	2 hr	CR123A or Li-Ion 18650	**60UL83**
LumaPro	120	Red Light, Strobe	High / Low	Strap	Plastic	Black	No	No	1 hr	AAA	**49XX93**
	120	SOS, Strobe	High / Low	Strap	Aluminum	Black	No	No	1.2 hr	AA	**49XX77**
	200	Strobe	High / Medium / Low	Head Strap	Plastic	Black	Yes	Yes	4.5 hr	3.7V	**49XX85**
	280	Red Light, Strobe	High / Low	Strap	Plastic	Black	No	No	1 hr	AA	**49XX90**
Milwaukee	450 lm	—	Hybrid/Spot High/Low/ Flood High/Low	Head Strap/Magnet	Plastic	Black, Red	Yes	Yes	2.5 hr	Proprietary	**61KM26**
Pelican	200	Red Light, SOS	High / Low	Strap	Plastic	Black	No	Yes	3 hr	AAA	**33W919**
	204	Red Light, Strobe	High / Medium / Low	Strap	Plastic	Black	No	Yes	2 hr	AAA	**43MJ59**
Princeton Tec	70	Strobe	High / Medium / Low	Strap	Plastic	Black	No	Yes	50 hr	AAA	**3KKX6**
	165	Beacon, Strobe	High / Medium / Low	Head Strap	Plastic	Black	No	Yes	22 hr	AAA	**494R23**
	165	Beacon, Strobe	High	Clip	Plastic	Clear	Yes	Yes	16 hr	CR123A	**494R24**
	200	Red Light	High / Medium / Low	Head Strap	Plastic	Green	Yes	Yes	13 hr	Li-Ion 2200mAh	**453G37**
	250	—	High / Medium / Low	Head Strap	Plastic	Black, Green	No	Yes	40 hr	AAA	**494R22**
	300	—	High / Low	Strap	Plastic	Black	No	Yes	28 hr	AAA	**5PVY1**
	420	—	High / Low	Strap	—	Black	—	Yes	136 hr	AAA	**189F23**
	450	Strobe	High / Medium / Low	Strap	Plastic	Black	Yes	Yes	5 hr	CR123A	**24M997**
Railhead Gear	100	Red Light	High / Low	Head Strap	Plastic	Black	No	Yes	8 hr	AAA	**43HZ44**
Streamlight	125	—	High / Low	Head/Hardhat Strap/3M Dual Lock Tape	Plastic	Black	Yes	Yes	3.5 hr	Proprietary	**35XM75**
	180	Beacon	High / Low	Head Strap	Plastic	Black	Yes	Yes	2 hr	Proprietary	**435X19**
	180	Beacon	High / Low	Head/Hardhat Strap/3M Dual Lock Tape	Polycarbonate	Yellow	Yes	Yes	4.5 hr	Proprietary	**55MJ32**
	180 lm	Red Light	High / Low	Head / Hardhat Strap / 3M Dual Lock Tape	Polycarbonate	Black, Blue, Coyote, Red, Yellow	Yes	Yes	2 hr	Li-Polymer 450 mAh	**61TX38**
	200	Red Light	High / Medium / Low	Head Strap	Plastic	Yellow	No	Yes	6 hr	AAA	**453A14**
	200	Beacon	High / Low	Head/Helmet Strap	Polycarbonate	Yellow	Yes	Yes	2 hr	Proprietary	**55MJ57**
	200	Beacon	High / Low	Head/Helmet Strap	Polycarbonate	Black	Yes	Yes	2 hr	Proprietary	**55MJ58**
	200 lm	Green Light, Red Light	High / Medium / Low	Head / Hardhat Strap / 3M Dual Lock Tape	Polycarbonate	Black, Yellow	Yes	Yes	7 hr	Li-Polymer 2200 mAh	**61TX36**
	375	—	High / Medium / Low	Head Strap	Nylon	Red	Yes	Yes	4.8 hr	Proprietary	**453A15**

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LED Headlamps

Brand	Maximum Lumens Output	Special Light Output Mode	Light Output Modes	Mounting Type	Body Material	Body Color	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	Item No.
Industrial, Safety Rated: Class I, Div. 2											
Princeton Tec	78	Strobe	High / Medium / Low	Strap	Plastic	Black	No	Yes	80 hr	AAA	**3KKZ5**
	130	Strobe	High / Medium / Low	Strap	Plastic	Black	No	Yes	121 hr	AAA	**3KKZ3**
	550	Strobe	High / Medium / Low	Strap	Plastic	Black	No	Yes	90 hr	AA	**3KKW3**
Streamlight	80	—	High / Medium / Low	Head/Hardhat Strap	Plastic	Yellow	No	Yes	5 hr	AAA	**4VA82**
	120	—	High / Medium / Low	Head/Hardhat Strap	Plastic	Yellow	No	Yes	3.5 hr	AAA	**1PJH9**
	150	—	High / Medium / Low	Head/Hardhat Strap	Plastic	Yellow	No	Yes	3 hr	AAA	**1PJJ3**
Industrial, Safety Rated: Class I, Div. 1											
Energizer	75	Green Light, Red Light	High / Low	—	Plastic	Orange	No	No	20 hr	AA	**4EZD6**
LumaPro	200	—	High / Low	Strap	Plastic	Yellow	No	No	2.5 hr	AAA	**49XX78**
Milwaukee	310	—	High / Medium / Low	Strap	Plastic	Yellow	No	Yes	4 hr	AAA	**55KE79**
Pelican	32	Strobe	High / Low	Strap	Plastic	Black	No	Yes	20 hr	AAA	**49XK74**
	60	—	High	Strap	Plastic	Black	No	Yes	10 hr	AAA	**6WNZ9**
	72	—	High / Low	Head Strap	Plastic	Yellow	No	Yes	6 hr	AA or AAA	**54XR49**
Princeton Tec	78	—	High / Low	Strap	Plastic	Black	No	Yes	105 hr	AAA	**5PVY0**
	130	—	High / Low	Strap	Plastic	Black	No	Yes	121 hr	AAA	**5PVX9**
	150	—	High / Low	Strap	Plastic	Black	No	Yes	105 hr	AAA	**49XH38**
Streamlight	120	—	High	Head/Hardhat Strap	Plastic	Yellow	No	Yes	11 hr	AA	**1UNB6**
	235	—	High / Medium / Low	Head/Hardhat Strap/3M Dual Lock Tape	Plastic	Yellow	No	Yes	4.8 hr	AAA	**54XJ73**
Tactical											
Princeton Tec	300	Blue Light, Green Light, Red Light	High / Low	Bracket/Head Strap/Magnet	Plastic	Tan	No	Yes	10 hr	AAA	**56MD42**
	420	Blue Light, Green Light, IR, Red Light	High / Low	Bracket/Head Strap	Plastic	Tan	No	Yes	4 hr	AAA	**56MD41**
Streamlight	350	Beacon, Tail Light	High / Low	Bracket	Aluminum	Black	No	Yes	2.3 hr	CR123A	**55MJ40**
	350	Beacon, Tail Light	High / Low	Bracket	Aluminum	Black	No	Yes	2.3 hr	CR123A	**55MJ39**
	635	—	High / Medium / Low	Head/Hardhat Strap	Aluminum	Black	No	Yes	1.8 hr	CR123A	**20JN14**
	1,000	—	High / Medium / Low	Head/Hardhat Strap	Aluminum	Black	Yes	Yes	1.5 hr	Proprietary	**435X17**
Surefire	300	SOS	High / Low	Strap	Aluminum	Black	No	Yes	1.5 hr	CR123A	**49XG35**
	1,000 lm	—	High / Medium / Low	Strap	Aluminum	Black	Yes	Yes	1 hr	12V	**32GH04**
Tactical, Safety Rated: Class I, Div. 2											
Princeton Tec	60	Strobe	High / Medium / Low	Strap	Plastic	Tan	No	Yes	102 hr	AAA	**[illegible]VY5**

54DG78

49XX88

61KM24

55MP02

3AU11

2RVL9

453A17

404L25

LED Penlights and Inspection Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Penlight										
EMI	49	High	—	Aluminum	Black	Yes	4 hr	AAA	5.0 in	**54DG73**
	49	High	—	Plastic	White	No	2 hr	AA or AAA	5.0 in	**54DG70**
	49	High	—	Aluminum	Black	Yes	4 hr	AAA	5.25 in	**54DG75**
	49	High	—	Aluminum	Red	Yes	4 hr	AAA	5.0 in	**54DG77**
	49	High	—	Aluminum	Blue	Yes	4 hr	AAA	5.0 in	**54DG78**
	49	High	—	Plastic	Black, Blue, Orange, Red, White	No	2 hr	AA or AAA	5.0 in	**54DG71**
	49	High	—	Aluminum	White	Yes	4 hr	AAA	5.25 in	**54DG76**
	49	High	—	Aluminum	White	Yes	4 hr	AAA	6.0 in	**54DG74**
LumaPro	90	High	—	Aluminum	Black	No	10 hr	AAA	5.16 in	**49XX88**
Milwaukee	100	High	—	Aluminum	Red	Yes	3 hr	AAA	5.39 in	**419J83**
	250 lm	High/Low	Laser	Metal	Black	Yes	2.5 hr	Proprietary	0.671875 in	**61KM24**
Pelican	115	—	—	Plastic	Yellow	—	2.2 hr	AAA	5.75 in	**55MP02**
	120	High	—	Aluminum	Black	Yes	2.8 hr	AAA	5.37 in	**33W917**
	140	—	—	Plastic	Black	—	4.7 hr	AAA	5.75 in	**55MP03**
Streamlight	2	High	Red Light	Aluminum	Black	Yes	24 hr	AAAA	6.21 in	**484P98**
	2	High	Blue Light	Aluminum	Black	Yes	24 hr	AAAA	6.21 in	**39AU36**
	7	High	Green Light	Aluminum	Black	Yes	24 hr	AAAA	6.21 in	**21XN46**
	11	High	—	Aluminum	Black	Yes	24 hr	AAAA	6.21 in	**3AU11**
	11	High	—	Aluminum	Red	Yes	24 hr	AAAA	6.21 in	**3XED4**
	11	High	—	Aluminum	Blue	Yes	24 hr	AAAA	6.21 in	**3XED1**
	45	High	—	Aluminum	Black	Yes	2.3 hr	AAA	3.6 in	**2RVN3**
	100	High	—	Aluminum	Black	Yes	8 hr	AAA	5.3 in	**2RVL9**
	100	High	—	Aluminum	Blue	Yes	8 hr	AAA	5.3 in	**39AU33**
	100	High	—	Aluminum	Red	Yes	8 hr	AAA	5.3 in	**39AU35**
	100	High	—	Aluminum	Silver	Yes	8 hr	AAA	5.3 in	**39AU34**
	115	High	—	Aluminum	Black	Yes	7.5 hr	AA	20.0 in	**1PJJ4**
	350	High / Low	—	Aluminum	Black	Yes	1.5 hr	Proprietary	6.15 in	**484R19**
	350	High / Low	—	Aluminum	Black	Yes	1.5 hr	Proprietary	6.15 in	**484R02**
Penlight, Safety Rated: Class I, Div. 1										
LumaPro	45	High	—	Plastic	Yellow	No	16.5 hr	AAA	5.5 in	**49XX80**
Streamlight	11	High	—	Aluminum	Black	Yes	24 hr	AAAA	6.21 in	**3KZW1**
Inspection Flashlight										
CRC	—	High	UV	Aluminum	Black	No	—	AA	7.0 in	**48XY79**
Streamlight	160	High / Low	—	Aluminum	Black	Yes	3 hr	Proprietary	6.64 in	**453A17**
	500	—	—	Aluminum	Black	Yes	2 hr	Proprietary	4.5 in	**60EE38**
Tracerline	—	—	UV	—	Green	Yes	4 hr	AAA	5.5 in	**404L25**
Inspection Flashlight, Safety Rated: Class I, Div. 1										
Streamlight	11	High	—	Aluminum	Black	Yes	24 hr	AAAA	14.0 in	**3XEE1**

2XUZ1

49XX73

2RVN2

11U141

20AT91

453A24

404L39

INOVA® LumaPro® STREAMLIGHT PELICAN™ FENIX

LED Keychain and Mini Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Keychain Flashlight										
General Purpose										
Inova	6	High / Low	Strobe	Plastic	Black	Yes	22 hr	CR2016	1.85 in	**2XUZ1**
Industrial										
LumaPro	20	—	—	Aluminum	Black	No	6 hr	AAA	2.83 in	**49XX73**
Streamlight	10	High	—	Aluminum	Black	Yes	8 hr	LR44	1.47 in	**2RVN2**
	10	High	—	Aluminum	Blue	Yes	8 hr	LR44	1.47 in	**11U141**
	10	High	—	Aluminum	Pink	Yes	8 hr	LR44	1.47 in	**21XN49**
	10	High	—	Aluminum	Red	Yes	8 hr	LR44	1.47 in	**11U142**
Mini Flashlight										
General Purpose										
Pelican	16	High	—	Aluminum	Black	Yes	8.5 hr	LR41	1.5 in	**49XK73**
Industrial										
LumaPro	275	High	—	Aluminum	Black	No	3 hr	AAA	4.72 in	**49XX94**
Streamlight	10	High / Medium / Low	Strobe	Plastic	Black	Yes	45 hr	CR2016	1.8 in	**20AT91**
	175	Combo / Spot / Flood	—	Plastic	Yellow	No	15 hr	AA	6.1 in	**435X23**
	60	High	—	Plastic	Yellow	Yes	16 hr	AAA	5.4 in	**435X21**
Tactical										
Fenix Lighting	550	Turbo / High / Medium / Low	Strobe	Aluminum	Black	Yes	2.3 hr	16340	3.7 in	**453A24**
Streamlight	115	High / Low	Strobe	Aluminum	Black	Yes	1.7 hr	AAA	3.94 in	**404L39**
	350	High / Low	Strobe	Aluminum	Black	Yes	3.3 hr	CR123A	4.77 in	**55TA14**
	350	High / Low	Strobe	Aluminum	Black	Yes	1.5 hr	AA or CR123A	4.25 in	**435X26**

EMI® Energizer STREAMLIGHT Diversey™ LumaPro® AbilityOne PROGRAM FENIX KLEIN TOOLS

5RHT3

5RHP7

787GP3

435X14

LED General Purpose Handheld Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Body Color	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Rubber Body									
—	17 lm	—	Black	No	No	11 hr	AA	6.5 in	**5RHT3**
	100 lm	High	Black	No	No	8 hr	AAA	6.63 in	**5RHP7**
EMI	249	High	Black	No	Yes	30 hr	AAA	7.5 in	**54DH66**
	249	High	Red	No	Yes	30 hr	AAA	7.5 in	**54DH64**
	249	High	Blue	No	Yes	30 hr	AAA	7.5 in	**54DH65**
Energizer	300 lm	High/Low	Black	No	Yes	5 hr	AA	2.57 in	**787GP3**
Polymer Resin Body									
Streamlight	275 lm	High / Medium / Low	Yellow	Yes	Yes	5.5 hr	Proprietary	7.5 in	**435X13**
	275 lm	High / Medium / Low	Black	Yes	Yes	5.5 hr	Proprietary	7.5 in	**435X14**
	275 lm	High / Medium / Low	Yellow	Yes	Yes	5.5 hr	Proprietary	7.5 in	**435X15**
	275 lm	High / Medium / Low	Black	Yes	Yes	5.5 hr	Proprietary	7.5 in	**435X16**
Plastic Body									
—	20 lm	High	Yellow	No	No	168 hr	D	7.75 in	**32ZN12**
	30 lm	High	Black	No	No	72 hr	D	6.63 in	**49C128**
	40 lm	High	Black	No	No	30 hr	AAA	6.69 in	**5RHP5**
	40 lm	High	Black	No	No	30 hr	AAA	6.69 in	**5RHP6**
	65 lm	—	Yellow	No	No	35 hr	D	6.15 in	**492T30**
Diversey	—	—		No	No	—	AAA	—	**32GT50**
LumaPro	190 lm	High	Black	No	No	1 hr	AA	6.92 in	**49XX95**
Aluminum Body									
—	90 lm	High	Silver	No	No	4 hr	AAA	4.99 in	**4FZK5**
Ability One	60 lm	—	Blue	No	Yes	—	AA	6.25 in	**10E713**
	60 lm	—	Silver	No	Yes	—	AA	6.25 in	**10E715**
	—	—	Black	No	No	—	D	10.5 in	**10E716**
Energizer	1,200 lm	High/Low/Spot-High/Spot-Low/Wide-High/Wide-low/Strobe	Silver	Yes	Yes	4 hr	26650	2 in	**61UM51**
Fenix Lighting	1,200 lm	High / Medium / Low / Strobe	Black	Yes	No	2.4 hr	18650; CR123A	5.09 in	**61HN56**
Klein Tools	235 lm	High / Low	Black/ Orange	No	Yes	6 hr	AAA	4.79 in	**63LH75**

49C128

5RHP6

492T30

4FZK5

61UM51

61HN56

63LH75

Scan. Order. Done.
Details on page A1.

LED Industrial Handheld Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Body Color	Safety Rated	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Aluminum Body										
Ability One	110 lm	High	Black	Not Safety Rated	No	Yes	5 hr	AA	6.25 in	**29NH53**
	110 lm	High	Red	Not Safety Rated	No	Yes	5 hr	AA	6.25 in	**29NH54**
Fenix Lighting	350 lm	Turbo / High / Medium / Low	Black	Not Safety Rated	No	Yes	3.75 hr	AA	5 in	**60UL74**
	800 lm	Strobe/ Turbo / High / Medium / Low / Eco	Black	Not Safety Rated	Yes	Yes	2.5 hr	18650, CR123A	4.29 in	**60UL75**
	800 lm	Strobe/ Turbo / High / Medium / Low / Eco/ SOS	Black	Not Safety Rated	Yes	Yes	1.91 hr	18650, CR123A	4.3 in	**60UL79**
	1,000 lm	Turbo / High / Medium / Low / Eco	Black	Not Safety Rated	Yes	Yes	4.1 hr	18650	5.5 in	**453A29**
	1,000 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.1 hr	Proprietary	6.3 in	**49XJ37**
	1,000 lm	Strobe/ Turbo / High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.16 hr	18650, L21-5000-21700	5.4 in	**60UL77**
	1,200 lm	Strobe/ Turbo / High / Medium / Low / Eco	Black	Not Safety Rated	Yes	Yes	2.66 hr	L21-5000-21700	4.65 in	**60UL82**
	1600 lm	Strobe/ Turbo / High / Medium / Low / Eco	Black	Not Safety Rated	Yes	Yes	5.81 hr	L21-5000-21700	5.4 in	**60UL76**
	12,000	Turbo / High / Medium / Low / Eco	Black	Not Safety Rated	Yes	Yes	22.5 hr	Proprietary	6.10 in	**60JC86**
LumaPro	250 lm	High / Low	Black	Not Safety Rated	No	No	2.5 hr	AA	6.1 in	**49XX76**
	250 lm	High / Low	Black	Not Safety Rated	No	No	25 hr	D	12.91 in	**49XX74**
	270 lm	High / Medium / Low	Black	Not Safety Rated	No	No	1 hr	AA	6.22 in	**49XX83**
	600 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	2 hr	18650	6.46 in	**49XX75**
	640 lm	High / Medium / Low	Black	Not Safety Rated	No	Yes	2 hr	CR123A	5.35 in	**49XX84**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	4 hr	3.7 V	5.47 in	**49XX87**
Milwaukee	500 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.5 hr	Proprietary	0.88 in	**61KM25**
Pelican	201 lm	—	Black	Not Safety Rated	No	No	1.2 hr	AAA	5.59 in	**55MP04**
	375 lm	High / Low	Black	Not Safety Rated	No	Yes	2.3 hr	AA	6.2 in	**14L596**
	390 lm	—	Black	Not Safety Rated	No	No	2.2 hr	AA	6.26 in	**55MP05**
	588 lm	—	Black	Not Safety Rated	No	No	1 hr	AAA	5.87 in	**55MP06**
	860 lm	—	Black	Not Safety Rated	Yes	No	1 hr	18650	6.16 in	**55MP07**
Streamlight	250 lm	High	Black	Not Safety Rated	No	Yes	6 hr	AA	6.5 in	**484P99**
	250 lm	High / Low		Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	3.87 in	**55MJ33**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.41 in	**484R05**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.85 in	**484R10**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.41 in	**484R06**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.41 in	**484R09**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.85 in	**484R12**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.41 in	**484R07**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.41 in	**484R08**
	425 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.85 in	**484R11**
	450 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.1 in	**480V82**
	450 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.1 in	**480V81**
	500 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	2.7 hr	Proprietary	7.65 in	**484R13**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	3.6 V	8.41 in	**404L35**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	3.6 V	8.85 in	**404L37**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	3.6 V	8.41 in	**404L36**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	9.23 in	**23X761**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	8.85 in	**55EF15**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	9.65 in	**39CC97**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	3.6 V	8.85 in	**404L38**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	9.65 in	**39CC92**
	800 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	9.23 in	**39CC96**
	1,000 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	6.5 in	**39CC90**
	1,100 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	11.82 in	**39CC91**
	1,100 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	1.5 hr	Proprietary	11.82 in	**39CC99**
	2,000 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	2 hr	12 V	7.67 in	**60RD82**
	2,000 lm	High / Medium / Low	Black	Not Safety Rated	No	Yes	2 hr	—	7.67 in	**60RD81**
Nylon Body										
Streamlight	250 lm	High / Low	Orange	Not Safety Rated	No	Yes	4 hr	CR123A	5.2 in	**435X29**
	250 lm	High / Low	Black	Not Safety Rated	No	Yes	4 hr	CR123A	5.2 in	**435X30**
	450 lm	High / Medium / Low	Yellow	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V88**
	450 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V84**
	450 lm	High / Medium / Low	Orange	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V85**
	450 lm	High / Medium / Low	Orange	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V86**
	450 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V83**
	450 lm	High / Medium / Low	Yellow	Not Safety Rated	Yes	Yes	3.25 hr	Proprietary	13.2 in	**480V87**
	485 lm	High / Medium / Low	Yellow	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.07 in	**484R14**
	485 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.07 in	**484R15**
	485 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.64 in	**484R16**
	485 lm	High / Medium / Low	Black	Not Safety Rated	Yes	Yes	3 hr	Proprietary	8.64 in	**484R17**
Plastic Body										
Energizer	300 lm	High / Low	Black	Not Safety Rated	No	Yes	6.5 hr	AA	6.75 in	**1LEE6**
Princeton Tec	90 lm	High	Black	Not Safety Rated	No	Yes	72 hr	AAA	3.75 in	**19YH53**
	90 lm	High	Yellow	Not Safety Rated	No	Yes	72 hr	AAA	3.75 in	**19YH52**
STANLEY	30 lm	—	Black	Not Safety Rated	No	No	41 hr	AA	10.75 in	**36N227**
Surefire	320 lm	High / Low	Yellow	Not Safety Rated	No	Yes	2.8 hr	CR123	5.2 in	**19YL67**
Polycarbonate Body										
Pelican	653 lm	High / Medium / Low	Glow In the Dark Green	Not Safety Rated	No	No	5 hr	AA	7.44 in	**61LT22**

401Y27

49XX92

49XK75

55MJ42

22LU18

39CC94

484R04

3HER8

LED Tactical Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Special Light Output Mode	Body Color	Lens Material	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Aluminum Body											
Energizer	400 lm	High	Strobe	Black	Polycarbonate	No	Yes	4 hr	AA	6.5 in	**401Y27**
Fenix Lighting	1,500 lm	Strobe/ Turbo / High / Medium / Low/ Red/ Green	Red Light, Green Light, Strobe	Black	Glass	Yes	Yes	4.66 hr	18650, CR123A	5.9 in	**60UL81**
LumaPro	1,000 lm	High / Low	Strobe	Black	Polycarbonate	Yes	Yes	28 hr	18650	9.55 in	**49XX92**
Pelican	450 lm	—	—	Black		No	No	1 hr	AA	4.63 in	**55MP01**
Pelican	602 lm	High / Medium / Low	Strobe	Black	Polycarbonate	No	Yes	1.5 hr	CR123	5.31 in	**49XK75**
Pelican	803 lm	High / Medium / Low	—	Black	Polycarbonate	Yes	Yes	2.5 hr	Proprietary	12.67 in	**4ETV1**
Pelican	944 lm	—	—	Black		Yes	No	3.1 hr	18650, CR123	6.19 in	**65DA46**
Streamlight	160 lm	High	—	Black	Glass	No	Yes	3.3 hr	CR123	5.6 in	**5XA83**
Streamlight	250 lm	High / Low	Strobe	Black	Glass	No	Yes	2 hr	AA	6.14 in	**55TA16**
Streamlight	250 lm	High / Low	Strobe		Glass	No	Yes	2 hr	AA	6.14 in	**55MJ41**
Streamlight	350 lm	High / Low	Strobe		Glass	No	Yes	1.5 hr	AA or CR123A	4.25 in	**55MJ42**
Streamlight	375 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	2.5 hr	Proprietary	5.9 in	**5TZK3**
Streamlight	375 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	2.5 hr	Proprietary	5.9 in	**21XN04**
Streamlight	500 lm	High / Low	Strobe	Black	Glass	No	Yes	2.8 hr	CR123A; 18650	5.12 in	**435X27**
Streamlight	500 lm	High / Low	Strobe	Black	Glass	Yes	Yes	2.8 hr	CR123A; 18650	5.14 in	**55MJ43**
Streamlight	615 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.2 hr	Proprietary	5.9 in	**22LU18**
Streamlight	615 lm	High / Medium / Low	Strobe	Black	Polycarbonate	Yes	Yes	1 hr	Proprietary	7.0 in	**39CC94**
Streamlight	725 lm	High / Low	Strobe	Black	Glass	No	Yes	1.3 hr	CR123	5.46 in	**30KA25**
Streamlight	1,000 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.3 hr	CR123A; 18650	5.43 in	**55MJ44**
Streamlight	1,000 lm	High / Medium / Low	Strobe	Black	Glass	No	Yes	1.3 hr	CR123A; 18650	5.44 in	**435X28**
Streamlight	1,000 lm	High/Medium/Low	Strobe	Black		Yes	Yes	1.5 hr	SL-B26	5.4 in	**61UM53**
Streamlight	1,000 lm	High / Medium	THRO(TM) 1,000 lumens 110m beam 35 second burst	Black	Tempered Glass	Yes	Yes	3 hr	Lithium	5.46 in	**61TX34**
Streamlight	1,000 lm	High / Medium	THRO(TM) 1,000 lumens 110m beam 35 second burst		Tempered Glass	Yes	Yes	3 hr	Lithium	5.46 in	**61TX35**
Streamlight	1,000 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.75 hr	—	4.39 in	**60RD83**
Streamlight	1,000 lm	High/Medium/Low	Strobe	Black		No	Yes	1.25 hr	CR123A	5.4 in	**61UM52**
Streamlight	3,500 lm	High / Medium / Low	Strobe	Black	Glass	Yes	Yes	1.5 hr	18650	9.53 in	**484R04**
Nylon Body											
Streamlight	55	High / Med. High / Med. Low / Low	Blue, IR, Red, Rescue Beacon	Coyote	Polycarbonate	No	Yes	6 hr	AA or CR123A	—	**484P94**
Streamlight	55	High / Med. High / Med. Low / Low	Blue, Green, IR, Rescue Beacon	Coyote	Polycarbonate	No	Yes	6 hr	AA or CR123A	—	**484P95**
Streamlight	55 lm	High / High Med / Low Med / Low	Strobe	Tan	Polycarbonate	No	Yes	5.5 hr	AA	2.34 in	**3HER8**
Streamlight	55 lm	High / Low	—		Polycarbonate	No	Yes	8 hr	AA	1.86 in	**60EE37**
Streamlight	500 lm	High / Low	—	Black	Glass	No	Yes	2.5 hr	CR123	4.43 in	**23X777**
Streamlight	500 lm	High / Low	—	Orange	Glass	Yes	Yes	3.8 hr	Proprietary	4.43 in	**60EE48**
Streamlight	500 lm	High / Low	—	Black	Glass	Yes	Yes	3.8 hr	Proprietary	4.43 in	**60EE45**
Streamlight	500 lm	High / Low	—	Yellow	Glass	Yes	Yes	3.8 hr	Proprietary	4.43 in	**60EE46**
Streamlight	600 lm	High / Medium / Low	Strobe	Black	Glass	No	Yes	2.75 hr	CR123	5.46 in	**453A21**
Streamlight	600 lm	High / Low	Strobe	Black	Glass	Yes	Yes	3.5 hr	CR123A; 18650	5.46 in	**55MJ46**
Streamlight	600 lm	High / Medium / Low	Strobe	Yellow	Glass	No	Yes	2.8 hr	CR123A	5.34 in	**484R21**
Streamlight	600 lm	High / Low	Strobe	Yellow	Glass	Yes	Yes	3.5 hr	CR123A; 18650	5.46 in	**55MJ47**
Streamlight	600 lm	High / Medium / Low	Strobe	Black	Glass	No	Yes	2.8 hr	CR123A	5.34 in	**484R22**
Streamlight	600 lm	High / Low	Strobe		Glass	Yes	Yes	3.5 hr	CR123A; 18650	5.46 in	**55MJ48**
Streamlight	600 lm	High / Medium / Low	Strobe	Yellow	Polycarbonate	No	Yes	2.8 hr	CR123A	5.9 in	**484R25**
Streamlight	600 lm	High / Medium / Low	Strobe		Glass	No	Yes	2.8 hr	CR123A	5.34 in	**484R23**
Streamlight	600 lm	High / Medium / Low	Strobe	Yellow	Glass	No	Yes	2.75 hr	CR123	5.46 in	**453A22**
Streamlight	600 lm	High / Medium / Low	Strobe	Tan	Glass	No	Yes	2.75 hr	CR123A	5.46 in	**453A23**
Streamlight	600 lm	High / Medium / Low	Strobe	Black	Polycarbonate	No	Yes	2.8 hr	CR123A	5.9 in	**484R24**

Safety Approval Definitions

Note: Always talk to your safety manager or consult supplier websites for additional information about the best products to use in your environment.

DIVISIONS

Describe the imminence of the danger.

Division 1 (Red)—"Hazard likely," such as inside a fuel tanker.

Division 2 (Green)—"Hazard not likely," such as in the proximity of a fuel tanker.

Flammable Liquid (Yellow)

Underwriters Laboratory

Factory Mutual

Mine Safety Health Administration

Canadian Safety Health Administration

International Electrotechnical Commission

ATEX Europe

Urban Search and Rescue

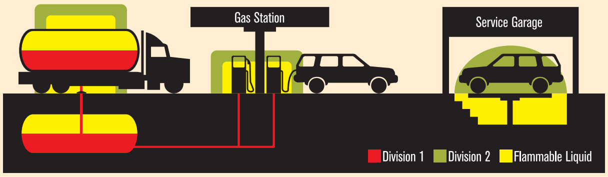
Intertek 3091325 Electrical Testing Laboratories

SGS U.S. Testing Company

Certified Electrical Safety

HAZARDOUS AREA GUIDELINES

	SUBSTANCE	TYPICAL ENVIRONMENTS	GROUP	CLASSIFICATIONS
CLASS 1	**Flammable Gases, Vapors, or Liquids** (Acetylene, Hydrogen, Ethylene, Propane)	- Oil Refinery - Paint Warehouse - Spray Booth - Offshore Oil Rig	A (Acetylene) B (Hydrogen) C (Ethylene) D (Propane)	**Division 1** Hazard can exist under narmal operating conditions **Division 2** Hazard not likely under normal operating conditions
CLASS 2	**Combustible Dusts** (Metals [Div. 1 only], Coal, Grain)	- Coal Mine - Munitions Factory - Grain Silo - Hay Storage Facility	E (Metals-Div 1 only) F (Coal) G (Grain)	**Division 1** Hazard can exist under narmal operating conditions **Division 2** Hazard not likely under normal operating conditions
CLASS 3	**Ignitable Fibers & Flyings** (Machined Magnesium)	- Paper Mill - Woodworking Facility - Textile Mill - Cotton Gin	N/A	**Division 1** Hazard not likely under normal operating conditions **Division 2** Hazard not likely under normal operating conditions



52VG80

49XG39

52NY68

STREAMLIGHT

Dualie 3AA LED Flashlights

- Submersible to 1 meter for 30 min.
- Intrinsically Safe - Class I, II, Div. 1

Rugged multifunction LED lights feature intuitive, independent switching for each function. The tough non-conductive, corrosion-proof polymer resin construction is impact-resistant to 2 meters and has an integrated low-profile pocket clip to help you keep your hands free for performing other tasks. 52VG80 and 52VG81 include a red laser pointer that can be used either on its own, or simultaneously with the forward-facing spot beam to identify equipment or hazards from a distance. 52NY68 and 52NY69 have an integrated magnetic clip to provide you with another option for hands-free lighting.

Lighting Technology	Lumens	Light Output Modes	Flashlight Beam Type	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Size	L	Item No.
Safety Rated: Class I, II, Div. 1												
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Black	No	No	9/18 hr	AA	7.0 in	**52NY69**
Safety Rated: Class I, Div. 1												
LED	150	High	Flood, Spot	Laser	Polymer Resin	Yellow	No	Yes	17 hr	AA	7.0 in	**52VG80**
LED	150	High	Flood, Spot	Laser	Polymer Resin	Black	No	Yes	17 hr	AA	7.0 in	**52VG81**
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Yellow	No	Yes	9/18 hr	AA	7.0 in	**49XG36**
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Yellow	No	No	9/18 hr	AA	7.0 in	**49XG37**
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Black	No	Yes	9/18 hr	AA	7.0 in	**49XG38**
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Black	No	No	9/18 hr	AA	7.0 in	**49XG39**
LED	245/140	High / Low	Flood, Spot	—	Polymer Resin	Yellow	No	No	9/18 hr	AA	7.0 in	**52NY68**
LED	275/180/105	High / Medium / Low	Flood, Spot	—	Polymer Resin	Yellow	Yes	Yes	5.5/7.25/13.5 hr	Proprietary	7.5 in	**435X13**
LED	275/180/105	High / Medium / Low	Flood, Spot	—	Polymer Resin	Black	Yes	Yes	5.5/7.25/13.5 hr	Proprietary	7.5 in	**435X14**
LED	275/180/105	High / Medium / Low	Flood, Spot	—	Polymer Resin	Yellow	Yes	Yes	5.5/7.25/13.5 hr	Proprietary	7.5 in	**435X15**
LED	275/180/105	High / Medium / Low	Flood, Spot	—	Polymer Resin	Black	Yes	Yes	5.5/7.25/13.5 hr	Proprietary	7.5 in	**435X16**

48Z715

49XX81

49XX79

785TG1

49XH36

20JN15

61HW31

19YH50

52NY69

Energizer LumaPro PELICAN Princeton Tec STREAMLIGHT

LED Safety Rated Industrial Handheld Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Flashlight Beam Type	Body Material	Body Color	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
Safety Rated: Class I, Div. 1											
Energizer	60 lm	High	Fixed	Plastic	Orange	No	No	135 hr	D	10.5 in	**1LEE5**
	65 lm	High	Fixed	Plastic	Orange	No	No	12 hr	AA	6.0 in	**1LEE4**
Koehler Brightstar	50 lm	High	Fixed	Plastic	Orange	No	No	250 hr	D	10.2 in	**48Z715**
	50 lm	High	Fixed	Plastic	Orange	No	No	200 hr	D	8.25 in	**48Z714**
LumaPro	120 lm	High / Low	Spot	Plastic	Yellow	No	No	6 hr	AA	7.0 in	**49XX81**
	157 lm	High / Low	Flood, Spot	Plastic	Yellow	No	No	6 hr	AA	7.25 in	**49XX79**
Pelican	126 lm	High	Fixed	Plastic	Yellow	No	Yes	7.5 hr	AA	7.0 in	**14L589**
	130 lm	High	Fixed	Plastic	Yellow	No	Yes	16 hr	AA	6.14 in	**54XR50**
	160 lm	High	Fixed	Plastic	Yellow	No	Yes	19 hr	AA	6.14 in	**20LN67**
	183 lm	On/Off	—	Aluminum	Black/Yellow	No	Yes	—	AA	7 in	**785TG1**
	256 lm	High / Medium / Low	Flood, Spot	Plastic	Yellow	No	No	5 hr	AA	7.44 in	**54XR51**
	335 lm	—	—	Polycarbonate	Yellow	No	—	6 hr	AA	7.44 in	**55MN99**
Princeton Tec	150 lm	High	Fixed, Spot	Plastic	Yellow	No	Yes	10 hr	AA	6.0 in	**49XH36**
	150 lm	High	Fixed, Spot	Plastic	Black	No	Yes	10 hr	AA	6.0 in	**49XH37**
Streamlight	65 lm	High	Fixed	Polymer Resin	Yellow	No	Yes	24 hr	AA	6.4 in	**2RVL8**
	67 lm	High	Fixed	Polymer Resin	Black	No	No	155 hr	AA	6.5 in	**9MCR7**
	67 lm	High	Fixed	Polymer Resin	Yellow	No	Yes	155 hr	AA	6.5 in	**3AU16**
	67 lm	High	Fixed	Polymer Resin	Yellow	No	No	155 hr	AA	6.5 in	**8RJT7**
	67 lm	High	Fixed	Polymer Resin	Yellow	No	Yes	155 hr	AA	6.5 in	**21XN45**
	85 lm	High	Fixed	Polymer Resin	Yellow	No	No	336 hr	C	8.55 in	**3AU17**
	100 lm	High	Fixed	Polymer Resin	Yellow	No	Yes	6 hr	AA	7.0 in	**20JN15**
	150 lm	High	Flood, Spot	Polymer Resin	Yellow	No	Yes	17 hr	AA	7.0 in	**52VG80**
	150 lm	High	Flood, Spot	Polymer Resin	Black	No	Yes	17 hr	AA	7.0 in	**52VG81**
	175 lm	High / Low	Fixed	Nylon	Orange	No	Yes	4 hr	AA	7.06 in	**1UNC5**
	245 lm	High / Low	Flood, Spot	Polymer Resin	Black	No	Yes	9 hr	AA	7.0 in	**49XG38**
	245 lm	High / Low	Flood, Spot	Polymer Resin	Yellow	No	No	9 hr	AA	7.0 in	**49XG37**
	245 lm	High / Low	Flood, Spot	Polymer Resin	Yellow	No	No	9 hr	AA	7.0 in	**52NY68**
	245 lm	High / Low	Flood, Spot	Polymer Resin	Yellow	No	Yes	9 hr	AA	7.0 in	**49XG36**
	245 lm	High / Low	Flood, Spot	Polymer Resin	Black	No	No	9 hr	AA	7.0 in	**49XG39**
	260 lm	High / Low	Fixed	Nylon	Yellow	Yes	Yes	5 hr	Proprietary	10.2 in	**11U130**
	260 lm	High / Low	Fixed	Nylon	Black	Yes	Yes	5 hr	Proprietary	10.2 in	**11U131**
	275 lm	High / Medium / Low	—	Polymer Resin	Yellow	Yes	Yes	5.5 hr	Proprietary	7.0 in	**55MJ36**
	275 lm	High / Medium / Low	—	Polymer Resin	Yellow	Yes	Yes	5.5 hr	Proprietary	7.0 in	**55MJ34**
	275 lm	High / Medium / Low	—	Polymer Resin	Black	Yes	Yes	5.5 hr	Proprietary	7.0 in	**55MJ37**
	275 lm	High / Medium / Low	—	Polymer Resin	Black	Yes	Yes	5.5 hr	Proprietary	7.0 in	**55MJ35**
Safety Rated: Class I, Div. 1, Div. 2											
Koehler Brightstar	325 lm	High/Low	Spot	Polymer Resin	Yellow	No	No	7 hr	AA	7.13 in	**61HW31**
	325 lm	High/Low	Dual	Polymer Resin	Yellow	No	No	7 hr	AA	7.13 in	**61HW32**
Safety Rated: Class I, Div. 2											
Pelican	112 lm	High	Fixed	Plastic	Yellow	Yes	Yes	4.5 hr	AA	7.0 in	**14L592**
Princeton Tec	350 lm	High	Fixed	Plastic	Black	No	Yes	10 hr	AA	6.5 in	**19YH50**
	350 lm	High	Fixed	Plastic	Yellow	No	Yes	10 hr	AA	6.5 in	**19YH51**
Streamlight	100 lm	High	Fixed	Polymer Resin	Black	No	Yes	6 hr	AA	7.0 in	**8RN13**
	100 lm	High	Fixed	Polymer Resin	Yellow	No	Yes	6 hr	AA	7.0 in	**5XA80**
Safety Rated: Class I, II, Div. 1											
Streamlight	245 lm	High / Low	Flood, Spot	Polymer Resin	Black	No	No	9 hr	AA	7.0 in	**52NY69**

5RHT1 · 494P02 · 48Z718 · 49XX82 · 20JN06 and 20JN10 · 20JN07 and 20JN11 · 49XG40 · 23X772 · 5TZJ3

AbilityOne PROGRAM · PELICAN · STREAMLIGHT · LumaPro

LED Hands-Free Flashlights

Brand	Maximum Lumens Output	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Run Time on High Setting	Battery Size	L	Item No.
General Purpose											
—	15	—	—	Plastic	Black	No	No	35 hr	AAA	1.5 in	**5RHT1**
Ability One	250	High	—	Plastic	Black/Red	No	Yes	0.5 hr	AA	12 in	**494P02**
Industrial											
Pelican	9	High	—	Plastic	Yellow	No	Yes	34 hr	CR2032	3.5 in	**1UKC1**
Streamlight	70	High / Low	Red Light	Plastic	Black	Yes	Yes	3.5 hr	Proprietary	3.2 in	**30KA29**
	800	Bright White / Hi CRI / UV	UV	Nylon	Red	Yes	Yes	3.75 hr	Proprietary	17 in	**481R21**
	800	Bright White / Hi CRI / UV	UV	Nylon	Red	Yes	Yes	3.75 hr	Proprietary	17 in	**481R22**
Industrial, Safety Rated: Class I, Div. 1											
Koehler Brightstar	205	High	—	Nylon	Orange	No	Yes	4 hr	AA	7.0 in	**48Z718**
LumaPro	250	High / Low	—	Plastic	Yellow	No	No	6.5 hr	AA	7.13 in	**49XX82**
Streamlight	163	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.8 hr	Proprietary	9.2 in	**20JN06**
	163	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.8 hr	Proprietary	9.2 in	**20JN07**
	163	High / Low	Strobe	Nylon	Yellow	No	Yes	3.8 hr	AA	9.2 in	**20JN08**
	163	High / Low	Strobe	Nylon	Orange	No	Yes	3.8 hr	AA	9.2 in	**20JN09**
	150	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.5 hr	Proprietary	9.2 in	**20JN10**
	150	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.5 hr	Proprietary	9.2 in	**20JN11**
	150	High / Low	Strobe	Nylon	Yellow	No	Yes	3.5 hr	AA	9.2 in	**20JN12**
	150	High / Low	Strobe	Nylon	Orange	No	Yes	3.5 hr	AA	9.2 in	**20JN13**
	175	High / Low	Strobe	Nylon	Yellow	No	Yes	4 hr	AA	7.06 in	**49XG40**
	175	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.5 hr	Proprietary	7.06 in	**21XN10**
	175 lm	High / Low	Strobe	Nylon	Orange	No	Yes	4 hr	AA	7.06 in	**1UNC5**
Industrial, Safety Rated: Class I, Div. 2											
Streamlight	200	High / Low	Strobe	Nylon	Yellow	No	Yes	3.5 hr	AA	9.2 in	**23X772**
	200	High / Low	Strobe	Nylon	Yellow	Yes	Yes	3.5 hr	Proprietary	9.2 in	**23X771**
	180	High / Low	Strobe	Nylon	Orange	No	Yes	3.5 hr	AA	9.2 in	**38R002**
	200	High / Low	Strobe	Nylon	Orange	No	Yes	3.5 hr	AA	9.2 in	**21XN09**
	200	High / Low	Strobe	Nylon	Orange	Yes	Yes	3.5 hr	Proprietary	9.2 in	**21XN07**
Tactical											
Streamlight	115	High	Blue Light	Aluminum	Black	No	Yes	6 hr	CR123A	3.26 in	**5TZJ3**

1LEF1 · 49XX91 · 49XX86 · 38RV49 · 38RV51 · 23X775

LED Spotlights

Energizer · LumaPro · Princeton Tec · STREAMLIGHT

Brand	Lighting Technology	Lumens	Light Output Modes	Body Material	Body Color	Recharge-able	Batteries Included	Battery Burn Time	Battery Type	Battery Size	Item No.
Industrial											
Energizer	LED	600/215	High / Low	Plastic	Black	No	Yes	6.2/22 hr	Alkaline	AA	**1LEF1**
LumaPro	LED	500	High	Plastic	Gray	No	No	9.5 hr	Alkaline	C	**49XX91**
	LED	700/330/65	High / Medium / Low	Plastic	Gray	Yes	Yes	2.5/6/15/10 hr	Lithium-Ion	3.7V	**49XX86**
Princeton Tec	LED	550	High	Plastic	Black	No	Yes	24 hr	Alkaline	C	**38RV45**
	LED	550	High	Plastic	Yellow	No	Yes	24 hr	Alkaline	C	**38RV50**
	LED	700	High	Plastic	Black	No	Yes	30 hr	Alkaline	C	**38RV49**
	LED	700	High	Plastic	Yellow	No	Yes	30 hr	Alkaline	C	**38RV51**
Streamlight	LED	550/40	High / Low	Plastic	Yellow	No	No	10/82 hr	Alkaline	C	**23X775**
	LED	550/40	High / Low	Plastic	Black	No	No	10/82 hr	Alkaline	C	**23X776**
	LED	1000/550/35	High / Medium / Low	Plastic	Yellow	Yes	Yes	3.8/7.5/87hr	Lithium-Ion	Proprietary	**21XN43**
	LED	1000/550/35	High / Medium / Low	Plastic	Black	Yes	Yes	3.8/7.5/87hr	Lithium-Ion	Proprietary	**21XN44**

49XX89

488U94

406D71

5TZJ5

21XN41

48Z713

LED Lanterns

Energizer · LumaPro · Streamlight · Pelican

Brand	Maximum Lumens Output	Light Output Modes	Special Light Output Mode	Body Material	Body Color	Recharge-able	Batteries Included	Run Time on High Setting	Battery Type	Battery Size	Includes	Item No.
General Purpose												
Energizer	80	High / Low	—	Plastic	Yellow	No	Yes	180 hr	Alkaline	D	—	**52YN77**
LumaPro	400	High / Low	Green Light	Plastic	Gray	No	No	28 hr	Alkaline	D	Carabiner	**49XX89**
Hazardous Location, Safety Rated: Class I, Div. 1												
Streamlight	400	High / Low	—	Nylon	Yellow	Yes	Yes	10 hr	Lithium-Ion	Proprietary	Heavy Duty Strap, AC 120V, DC 12V, Charge Rack	**60EE49**
Industrial												
Pelican	2,200	High / Low	—	Plastic	Yellow	Yes	Yes	3.2 hr	Lithium-Ion	18650	—	**488U94**
Streamlight	5,300	High / Medium / Low	—	Plastic	Yellow	Yes	Yes	4 hr	Sealed Lead Acid	12V	120V AC charger, 12V DC cord, 6 ft Extension Pole to 6 ft, Heavy duty shoulder strap	**30KA23**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC/12V DC Charge Cords, Charge Rack, Shoulder Strap	**21XN19**
Streamlight	540	High / Medium / Low	Red Light, SOS	Plastic	Tan	No	No	30 hr	Alkaline	D	Glare-reducing Cover	**406D71**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC/12V DC charge cords, Charging Rack, Shoulder strap	**21XN37**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC/12V DC Charge Cords, Charge Rack, Shoulder Strap	**23X773**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN39**
Streamlight	615	High / Low	—	Plastic	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC & DC Charge Cords, Charging Rack, Shoulder Strap	**21XN26**
Streamlight	5,300	High / Medium / Low	—	Plastic	Orange	Yes	Yes	1.8 hr	Sealed Lead Acid	Proprietary	Rechargeable battery, 120V AC & DC Charge Cords, Charging Rack, Shoulder Strap	**20AT87**
Streamlight	540	High / Low	—	Plastic	Yellow	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC/12V DC Charge Cords, Charge Rack, Shoulder Strap	**23X774**
Streamlight	615	High / Low	—	Plastic	Yellow	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC & DC Charge Cords, Charging Rack, Shoulder Strap	**5TZJ5**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN21**
Streamlight	615	High / Low	—	Plastic	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, 120V AC & DC Charge Cords, Charging Rack, Shoulder Strap	**5TZJ4**
Streamlight	325	—	Red Light, SOS	Plastic	Tan	Yes	Yes	4.5 hr	Lithium-Ion, Lithium Metal	CR123A or 18650	(1) SL-B26 battery pack, USB cord	**55MJ31**
Streamlight	615	High / Low	—	Plastic	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap	**21XN40**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 12V DC direct wire rack	**21XN17**
Streamlight	540	High / Low	—	Plastic	Orange	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, 12V DC direct wire rack, Shoulder strap	**21XN38**
Streamlight	615	High / Low	—	Plastic	Tan	Yes	Yes	8 hr	Sealed Lead Acid	6V	(1) 120v AC Charge Cord, (1) 12v DC Charge Cord, Charge Rack, Shoulder Strap, Emergency Lighting Wall Sticker	**21XN27**
Streamlight	200	High / Medium / Low	Red Light, SOS	Plastic	Tan	No	No	7 hr	Alkaline	AA	No batteries included	**36MU58**
Streamlight	615	High / Low	—	Plastic	Yellow	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN30**
Streamlight	540	High / Low	—	Plastic	Tan	Yes	Yes	7 hr	Sealed Lead Acid	6V	Shoulder Strap, Charger sold separately	**21XN22**
Streamlight	615	High / Low	—	—	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, Shoulder Strap, 12V DC direct wire rack	**21XN24**
Streamlight	540	High / Low	—	Plastic	Yellow	Yes	Yes	7 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN23**
Streamlight	615	High / Low	—	—	Yellow	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, Shoulder Strap, 12V DC direct wire rack	**21XN25**
Streamlight	615	High / Low	—	Plastic	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	12v DC Direct Wire Charge Rack, Shoulder Strap,	**21XN41**
Streamlight	615	High / Low	—	—	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN42**
Streamlight	615	High / Low	—	Plastic	Orange	Yes	Yes	8 hr	Sealed Lead Acid	6V	Rechargeable battery, No charger	**21XN28**
Industrial, Safety Rated: Class I, Div. 1												
Koehler Brightstar	90	—	—	Plastic	Orange	No	No	150 hr	Alkaline	D	—	**48Z713**
Pelican	588	High / Low	Strobe	Plastic	Yellow	Yes	Yes	4.5 hr	NiMH	C	—	**49XK76**
Industrial, Safety Rated: Class I, Div. 2												
Streamlight	1,200	High / Low	Blue Light	Nylon	Yellow	Yes	Yes	5.8 hr	Lithium-Ion	Proprietary	Rechargeable Battery, Charge Rack, 120V AC Charge Cord, 12V DC Charge Cord, Heavy Duty Shoulder Strap	**453A20**
Streamlight	180	High / Low	—	Plastic	Orange	Yes	Yes	4.3 hr	Lithium-Ion	6V	Rechargeable battery, Shoulder Strap, 120V AC & DC Charge Cords, Charging Rack	**3XFL8**
Streamlight	1,200	High / Low	Blue Light	Nylon	Orange	Yes	Yes	5.8 hr	Lithium-Ion	Proprietary	Rechargeable Battery, Charge Rack, 120V AC Charge Cord, 12V DC Charge Cord, Quick Release Shoulder Strap	**453A19**

496L81

22M701

2VEW4

3VY97

54YK94

5LE24

Disposable Standard Batteries

Alkaline batteries are the most-common choice for most everyday applications. Lithium batteries provide level, consistent performance in all devices, including high-power-draw devices. Designed to be leakproof and perform well in extreme temperatures, from -40° to 140°F.

Everyday—All-purpose batteries for everyday use in devices such as flashlights, remote controls, clocks, smoke detectors, and other equipment that is used intermittently or has a low power draw.

Premium—Higher-tier batteries provide dependable performance in low-drain devices such as flashlights, remote controls, clocks, smoke detectors, medical devices, multimeters, and similar intermittent-use equipment.

High Performance—Top-tier, high-capacity batteries can handle power demand spikes from high-drain devices such as digital cameras, thermal imagers, digital audio players and recorders, drones, video game controllers, GPS equipment, and keyless locks.

Battery Chemistry	Battery Series	Pkg. Qty.	Brand	Item No.
AA				
Everyday				
Alkaline	Ability One	4	Ability One	55XD46
	Ability One	24	Skilcraft	60VY42
	Industrial	24	Energizer	38W365
	Procell Constant	24	Duracell Procell	5LE23
	UltraPro	8	Rayovac	64NU56
	UltraPro	24	Rayovac	64NU61
Premium				
Alkaline	CopperTop	4	Duracell	3WA11
	CopperTop	24	Duracell	22A624
	CopperTop	36	Duracell	39G076
	Fusion	8	Rayovac	496L81
	Fusion	30	Rayovac	496L82
	Max	4	Energizer	22M699
	Max	24	Energizer	22FX66
	Max	36	Energizer	22FX67
High Performance				
Alkaline	Procell Intense	24	Duracell Procell	55EC97
Lithium	Ultimate Lithium	4	Energizer	1LEF7
	Ultimate Lithium	8	Energizer	2LBJ6
	Ultimate Lithium	24	Energizer	22M707
AAA				
Everyday				
Alkaline	Ability One	4	Ability One	56HC10
	Industrial	24	Energizer	38W366
	Procell Constant	24	Duracell Procell	5LE25
	Rayovac	12	Ability One	61HL20
	UltraPro	8	Rayovac	64NU57
	UltraPro	24	Rayovac	56LL51
Premium				
Alkaline	CopperTop	4	Duracell	3WA12
	CopperTop	24	Duracell	22A625
	CopperTop	36	Duracell	458J20
	Fusion	8	Rayovac	496L83
	Fusion	30	Rayovac	496L84
	Max	4	Energizer	22M701
	Max	16	Energizer	22M703
	Max	24	Energizer	55VR90
	Procell Intense	24	Duracell Procell	60GV42
High Performance				
Lithium	Ultimate Lithium	4	Energizer	1LEF8
	Ultimate Lithium	24	Energizer	54YK94
AAAA				
Premium				
Alkaline	CopperTop	2	Duracell	3VY95
	Max	2	Energizer	2LBJ7
	Stylus	6	Streamlight	2VEW4
C				
Everyday				
Alkaline	Ability One	4	Ability One	55MP74
	Industrial	12	Energizer	38W367
	Procell Constant	12	Duracell Procell	5LE22
	UltraPro	6	Rayovac	3WA31
	UltraPro	12	Rayovac	64NU63
Premium				
Alkaline	CopperTop	4	Duracell	3VY97
	CopperTop	12	Duracell	21EK78
	Fusion	8	Rayovac	496L85
	Max	4	Energizer	3KKH4
	Max	8	Energizer	22M705
High Performance				
Alkaline	Procell Intense	12	Duracell Procell	55EC96
D				
Everyday				
Alkaline	Industrial	12	Energizer	38W368
	Procell Constant	12	Duracell Procell	5LE21
	UltraPro	6	Rayovac	64NU58
	UltraPro	12	Rayovac	64NU64
Premium				
Alkaline	CopperTop	4	Duracell	3VY96
	CopperTop	12	Duracell	21EK77
	Fusion	8	Rayovac	496L86
	Max	4	Energizer	3KKH6
	Max	8	Energizer	22M704
High Performance				
Alkaline	Procell Intense	12	Duracell Procell	55EC95
9V				
Everyday				
Alkaline	Ability One	12	Ability One	54VJ02
	Industrial	12	Energizer	38W369
	Procell Constant	12	Duracell Procell	5LE24
	UltraPro	6	Rayovac	64NU60
	UltraPro	12	Rayovac	64NU65
Premium				
Alkaline	CopperTop	2	Duracell	3VY99
	CopperTop	12	Duracell	21EK79
	Fusion	2	Rayovac	496L87
	Max	2	Energizer	3KKH8
	Max	4	Energizer	22M706
	Procell Intense	12	Duracell Procell	60GV43
High Performance				
Lithium	Ultimate Lithium	1	Energizer	49EV63

1FYF1

30YH47

34J848

Battery Recycling Kits

Kits come with everything you need to safely recycle dry cell batteries in compliance with all environmental regulations.

Volume Cap.	Weight Cap.	L	W	D	Prepaid Disposal Included	Brand	Item No.
Dry Cell Batteries							
Battery Recycling Kit							
½ gal	15 lb	6 ½ in	5 ½ in	6 in	Yes	RecyclePak	12G312
1 gal	25 lb	7 in	6 ½ in	7 ½ in	Yes	RecyclePak	12G311
2 gal	35 lb	7 ½ in	9 in	10 ½ in	Yes	RecyclePak	4NYA8
3.5 gal	33 lb	49 in	8 in	8 in	Yes	Everlights	48UL69
3½ gal	50 lb	10 ½ in	10 ¼ in	11 ½ in	Yes	RecyclePak	1FYF1
	50 lb	10 in	12 in	12 in	Yes	Everlights	48VG30
55 gal	600 lb	32 in	24 in	24 in	Yes	Everlights	30YH48
Weight Dependent	45 lb	13 in	13 in	9 in	Yes	RecyclePak	34J848
Battery Collection Tube							
5 gal	55 lb	36 in	6 in	6 in	No	Everlights	30YH47

Energizer RAYOVAC DURACELL

Rechargeable Nickel Metal Hydride (NiMH) Batteries and Chargers

Standard Battery Size	Battery Capacity	Pkg. Qty.	Brand	Item No.
Rechargeable Battery				
AAA	700mAh	2	Energizer	**3KKJ9**
AAA	600mAh	4	Rayovac	**5HB64**
AAA	850mAh	4	Duracell	**21LN86**
AA	1350mAh	4	Rayovac	**5HB63**
AA	2300mAh	4	Energizer	**3KKJ7**
AA	2400mAh	4	Duracell	**21LN85**
C	2500mAh	2	Energizer	**3KKL4**
D	2500mAh	2	Energizer	**3KKL6**
9V	175mAh	1	Energizer	**3KKL2**

5HB63

21LN88

3KKJ7

Power Req.	Battery Recharge Time*	Charges Up To	Includes	Brand	Mfr. Model	Item No.
Battery Chargers						
Energizer Rechargeable						
120V AC	3 hr	(8) AAA or (8) AA or (1) 9V or (4) C or (4) D	AC Power Cord	Energizer	CHFC	**3KKL8**
Rechargeable Battery Kits						
Universal						
120V AC	1 to 2½ hr	(4) AAA or (4)AA	(2) AA Batteries, (2) AAA Batteries	Duracell	CEF27LNRFP	**21LN88**

** When used with batteries by same manufacturer.*

BRITE STRIKE TACTICAL ILLUMINATION PRODUCTS

STREAMLIGHT PELICAN

18650 Rechargeable Batteries and Charger

Standard Battery Size	Capacity	Precharged	Brand	Item No.	Pkg. Qty.
Rechargeable Battery					
18650	2,600 mAh	No	Brite-Strike	**36N853**	1
18650	2,600 mAh	Yes	Streamlight	**457A46**	1
18650	2,600 mAh	Yes	Pelican	**457A70**	1

36N853

457A46

457A57

Power Req.	Input Connection	Battery Recharge Time*	Number of Batteries Charged	Includes	Brand	Mfr. Model	Item No.
Battery Chargers							
120V AC	NEMA 1-15P Plug	4 to 6 hr	(1) 18650	AC Adapter and Cord	Brite-Strike	18650-AC-Charger	**39WE24**
Rechargeable Battery Kits							
5V DC	Micro USB Socket	3½ to 6½ hr	(2) Proprietary SL-B26	(2) SL-B26 Battery Packs, Charging Cradle, USB cord	Streamlight	22010	**457A57**
120V AC	NEMA 1-15P Plug	3½ to 6½ hr	(2) Proprietary SL-B26	(2) SL-B26 Battery Packs, 120V AC Cord, Charging Cradle	Streamlight	22011	**457A59**

** When used with batteries by same manufacturer.*

55VT10

420C73

55FA14

AbilityOne PROGRAM · CAT · EGO POWER+ SYSTEM · Lynktec · Milwaukee · MobileSpec Connect. Listen. Live.

Power Banks & External Batteries

Capacity	Number of Output Connectors	Recharge Time	Input Connector	Output Connection Type	Item No.	
Ability One						
12,000 mAh	2	3 hr	—	Female USB Type A	**56LF39**	
Cat						
10,000 mAh	1	10 hr	Micro USB	Female USB Type A	**420C73**	
Ego						
1.2 Ah	2	1 hr	Micro USB	Female USB Type A	**55JG50**	
Lynktec						
5,300 mAh	1	2.5 hr	Micro USB	Female USB Type A	**52HA16**	
8,000 mAh	1	4 hr	Micro USB	Female USB Type A	**52HA17**	
Milwaukee						
2,000 mAh	1	2 hr	Micro USB	Female USB Type A	**55VT10**	
	1	2 hr	Micro USB	Female USB Type A	**55VT11**	*
Mobilespec						
2,600 mAh	1	4 hr	AC Prong	Female USB Type A	**55FA12**	
10,000 mAh	2	5.5 hr	Female USB Type A	Female Micro USB, USB Type C	**55FA14**	

**Kit includes a REDLITHIUM™ USB Battery, USB Rechargeable Power Source and Charger, 2 FT Heavy Duty Micro-USB Cord*

ALARM LOCK · POWERHOUSE TWO · SUPPLIER DIVERSITY · DURACELL · STANLEY

Security Door Batteries

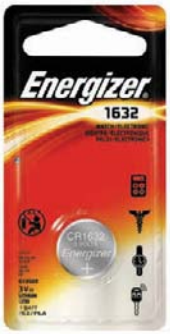
Can be used as direct replacements for most electronic locks.

10A356

ALCOHOL HEAD-CLEANING CARDS

Can be used on any card-reading device used in hotel doors or credit/debit card processing.

Voltage	Cross-Reference	Brand	Mfr. Model	Item No.
Door Lock Battery Pack				
Fits Alarm Lock/Trilogy Brand				
6V DC	DL1200, DL1200ET, DL1300, DL1300ET, PDL1300, PDL1300ET	Trilogy	S6170	**20UL54**
	DL6100, DL6500, ETDLN, ETPDN, PDL6100, PDL6500	Trilogy	S6196	**20UL56**
	Mfr. No. LL1, PG10 and 11A	Alarm Lock	BP6	**1U106**
7V DC	DL2700, DL2800, DL3000, DL3200, DL4100, PDL3000, PDL4100, PL3000	Trilogy	S6061	**20UL51**
	DL2700CR, DL2700DB, DL3500CR, DL3500DB, DL4500DB, PDL3500CR, PDL3500DB	Trilogy	S6065	**20UL52**
	ETDL, ETPDL	Trilogy	S6174	**20UL55**
9V DC	250WP, 700WP	Alarm Lock	S6173	**20UL53**
Fits BEST Brand				
6V DC	C83511	Best	VPDBB B60726	**53DX92**
Fits Intellikey Brand				
9V DC	100178, DL-18, PT00213	Power Xp	DL-40	**10A364**
Fits KABA ILCO Brand				
9V DC	884950, HTL-2, PMI7000, UNICAN	Power Xp	DL-16	**10A359**
		Duracell Procell	PCBP-STYLE-ILCO	**61HH66**
Fits Saflok Brand				
6V DC	50800LB, 885008, ELS5, HTL-3, HTL-5, S7400-12	Power Xp	DL-5	**10A357**
		Duracell Procell	PCBP-STYLE-F	**61HH64**
	884952, A28100, A28110, HTL-11, HTL-13, PMI235NT	Power Xp	DL-8	**10A358**
		Duracell Procell	PCBP-STYLE-28110	**61HH63**
	884955, HTL-1, HTL-17, S54490	Power Xp	DL-2	**10A356**
		Duracell Procell	PCBP-STYLE-B	**61HH65**
	HTL-6, S90040, Select 6	Power Xp	DL-19	**10A360**
Fits Timelox, VingCard Brand				
9V DC	DL-25, HTL-10, Timelox	Power Xp	DL-30	**10A362**
Fits VingCard Brand				
9V DC	12, PM106V	Power Xp	DL-26	**10A361**
	100219, DL-120, DL-19, PT00212L	Power Xp	DL-31	**10A363**
Alcohol Cleaning Cards				
(50) Pre-Saturated Cards Per Box		Power Xp	CR80	**10A365**



STREAMLIGHT · Energizer® · MONARCH INSTRUMENT *Innovation in Instrumentation* · DURACELL®

45EK26 · 2HYJ1

Button/Coin Cell Batteries

These batteries provide power for test instruments, calculators, timers, watches, keyless locks, and other small electronic devices.

Battery Size	Cross-Reference	Brand	Item No.	Pkg. Qty.
1.5V DC Alkaline				
LR44	157, A76, AG13, G13, KA, L1154, LR1154, LR44, RW82, V13GA	Streamlight	**3KKF6**	4
1.5V DC Silver Oxide				
76	03, 303, 357, 76, A, D357, EPX76, G13, GS13,	—	**5U085**	1
303/357	J, MS76, S76, SB-B9, SG13, SP76, SR1154PW, SR44, SR44P, SR44SW, SR44W, V357	Energizer	**45EJ86**	1
309/393	309, 309/393, 393/309, AG5, D309, SR754W, V309	Energizer	**45EJ98**	1
364	280-34, 364, AG1, D364, SB-AG, SR621SW, T, V364	Energizer	**45EJ89**	1
371	280-31, 371, AG6, D371, SB-AN, SR920SW, V371	Energizer	**45EJ90**	1
379	280-59, 379, D379, JA, SB-AC, SR521SW, V379	Energizer	**45EJ93**	1
395	280-48, 395, AG7, D395, SB-AP, SR927SW, V395	Energizer	**45EJ99**	1
3V DC Lithium				
1025	CR1025	—	**54ZW43**	1
1216	CR1216, DL1216, ECR1216	Energizer	**45EK10**	1
1220	CR1220	—	**54ZU79**	1
1225	CR1225	—	**54ZU73**	1
1616	280-209, CR1616, DL1616, ECR1616, KECR1616-1, YA	—	**2CUR6**	1
1620	5009LC, CR1620, DL1620, EA, ECR1620, KECR1620-1, L08	—	**5HXG7**	1
1632	CR1632	Energizer	**45EK26**	1
2016	280-206, CR2016, DL2016, E-CR2016, ECR2016, FA, KECR2016-1, SB-T11	—	**2CUR7**	1
	280-206, 5000LC, CR2016, CR2016-1W, DL2016, E-CR2016, FA, SB-T11	Duracell Procell	**56FJ74**	5
2025	280-205, CR2025, DL2025, E-CR2025, ECR2025, KECR2025-1, NA, SB-T14	—	**2CUR8**	1
		Energizer	**45EK14**	1
	280-205, 5003LC, BR2025, CR2025, CR2025-1W, DL2025, E-CR2025, LR2025, SB-T14	Duracell Procell	**56FJ73**	5
2032	BR2032, CR2032, DL2032, E-CR2032, ECR2032, FA, KECR2032-1, SB-T51	—	**4LW11**	1
		Monarch	**31KZ63**	1
		Duracell	**2HYJ1**	2
		Energizer	**45EJ83**	4
	5004LC, BR2032, CR2032, CR2032-1W, DL2032, E-CR2032, ECR2032, LR2032, SB-T51	Duracell Procell	**56FJ72**	5
2325	CR2325	—	**54ZU74**	1
2330	CR2330	—	**54ZU75**	1
2354	CR2354	—	**54ZU76**	1
2430	5011LC, CR2430, DL2439, ECR2430, L20	—	**5HXG8**	1
2450	5029LC, CR2450, CR2450N, DL2450, ECR2450, KECR2450-1	—	**5HXG6**	1
		Duracell	**2HYK2**	1
2477	CR2477	—	**54ZU77**	1
3032	CR3032	—	**54ZU78**	1
⅓ N	⅓ N, 2L76, 4LR44, 5008LC, 5018LC, CR1/3N, CR11108, DL1/3N, K58L	Duracell	**1ANB8**	1

RAYOVAC

5AHC9

Hearing Aid Batteries

- Mercury-free formula

Battery Size	Color Code	Item No.	Pkg. Qty.
10	Yellow	**5AHC9**	16
13	Orange	**5AHD0**	16
312	Brown	**5AHD1**	16
675	Blue	**5AHD2**	6

45EK08 · 2VEW1 · 489D89

Energizer · DURACELL® · STREAMLIGHT · SUREFIRE®

Disposable Specialty Batteries

Used in high-drain devices such as digital cameras, Wi-Fi-enabled equipment, tactical flashlights, occupancy sensors, defibrillators, microphones, and faucet sensors.

Battery Size	Cross-Reference	Brand	Item No.	Pkg. Qty.
1.5V DC Alkaline				
N-E90	4001, 810, 910A, AM5, LR1, MN9100, UM-5	Energizer	**45EK08**	2
3V DC Lithium				
CR2	CR17355, DLCR2, ELCR2	Duracell	**1FYE9**	1
	5046LC, DLCR2, EL1CR2, RLCR2	—	**2HPC7**	2
	1CR2, 5046LC, CR15H270, CR17355, DLCR2, EL1CR2, KCR2, RLCR2-2	Energizer	**45EK21**	2
	15266, 15270, 5046LC, CR-2, CR15H270, CR2, DLCR2, EL1CR2, KCR2, RLCR2-1	Duracell Procell	**56FJ75**	12
CR123A	5018LC, CR123, CR123A, CR17345, DL123A, EL123AP, RL123A	Duracell	**1ANB7**	1
		Energizer	**45EK18**	2
		Streamlight	**2VEW1**	2
		Surefire	**3KKF8**	2
		—	**5PT96**	2
		Duracell Procell	**11W123**	12
		Streamlight	**2VEW2**	12
		Surefire	**6TWF6**	12
CRV3	DLCRV3, ELCRV3, KCRV3	Energizer	**468F56**	2
6V DC Alkaline				
28A	A544BPZ	Duracell	**489D86**	1
A544	476A, 4LR44, GP476, K28L, L1325, PX28A, V28PX	Energizer	**45EK05**	1
6V DC Lithium				
2CR5	2CR5M, 5032LC, DL245, EL2CR5, KL2CR5, RL2CR5	Energizer	**45EK23**	1
28L	2CR11108, L544, PX28L	Duracell	**489D84**	1
223	223, 223A, 5024LC, CRP2, DL223A, EL223AP, RL223A	—	**5HXF9**	1
		Duracell	**1ANB9**	1
245	EL2CR5BP	Duracell	**489D89**	1
12V DC Alkaline				
21/23	A23BPZ, A23BPZ-2	Duracell	**489D85**	2
A23	1181A, A23BP, DL21, DL23, MN-21B, MN21, V23GA	Energizer	**45EK03**	2
A27	27A, A27BP, G27A, GP27A, L828, MN27	Energizer	**45EK04**	1

DURACELL · Energizer® · RAYOVAC

5LE26

Lantern Batteries

- Mercury-free formula

Battery Chemistry	Voltage	Terminal Type	L	W	H	Mfr. Model	Item No.
Duracell							
Alkaline	6V DC	Spring	4½"	2.68 in	3.9 in	MN908	**5LE26**
Energizer							
Alkaline	6V DC	Spring	—	2.62 in	3.9 in	EN529	**22M709**
Carbon Zinc	6V DC	Spring	—	2.56 in	4.06 in	1209	**54ZG68**
Rayovac							
Alkaline	7.5V DC	Screw	7¼"	7.5 in	3.25 in	803	**3AXH6**
	6V DC	Spring	4½"	2.62 in	3.9 in	806R	**4LV99**
Carbon Zinc	7.5V DC	Screw	6⅜"	7.2 in	5.81 in	903	**2V948**
	6V DC	Screw	4¼"	2.62 in	3.92 in	945R4	**5U061**
	6V DC	Spring	4½"	2.62 in	3.9 in	944C	**3JFU2**
	12V DC	Screw	5¼"	5.29 in	4.37 in	926D	**491G53**

Sealed Lead Acid Batteries

- Terminal location: Top

Sealed lead acid (SLA) batteries are heavy, block-shaped batteries for powering large equipment and industrial systems. Also called storage or standby batteries, sealed lead acid batteries are slow draining when not in use so they're often used in uninterruptible power supplies (UPS) and other backup or reserve power applications. The terminal placement and overall dimensions of an SLA battery must match the location of mating connectors and the installation space within equipment to ensure a proper fit.

2UKH1

54XH42

2UKG8

54XH48

Capacity	Terminal Connection	H	W	D	Item No.
AGM with ABS Housing					
4V DC					
4.5 Ah	0.187 in Faston	3.98 in	1.85 in	1.85 in	**2UKL1**
	0.250 in Faston	4.12 in	1.85 in	1.85 in	**5EFE7**
	0.187 in Faston	3.98 in	1.85 in	1.85 in	**61KW66**
	0.250 in Faston	4.12 in	1.85 in	1.85 in	**61KW70**
9 Ah	0.250 in Faston	4 in	1.73 in	4.02 in	**5EFE8**
	0.250 in Faston	4 in	1.73 in	4.02 in	**61KW71**
10 Ah	0.187 in Faston	4 in	1.97 in	4.02 in	**61KW72**
6V DC					
1.2 Ah	0.187 in Faston	2.05 in	3.82 in	0.94 in	**2UKH1**
	0.187 in Faston	2.05 in	3.82 in	0.94 in	**61KW55**
2.8 Ah	0.187 in Faston	3.94 in	2.6 in	1.3 in	**2UKL2**
3.3 Ah	0.187 in Faston	2.56 in	1.34 in	5.28 in	**5EFF1**
	0.187 in Faston	2.56 in	1.34 in	5.28 in	**61KW73**
4 Ah	0.187 in Faston	3.98 in	2.78 in	1.88 in	**2UKJ2**
4.5 Ah	0.187 in Faston	3.98 in	1.88 in	2.78 in	**5EFF2**
5 Ah	0.187 in Faston	4.19 in	1.85 in	2.76 in	**5EFG4**
	0.187 in Faston	4.19 in	1.85 in	2.76 in	**61KW77**
7 Ah	0.187 in Faston	3.7 in	5.94 in	1.34 in	**2UKJ6**
	0.187 in (-) / 0.250 in (+) Faston	3.7 in	1.34 in	5.94 in	**5EFF5**
8.5 Ah	0.187 in Faston	4.65 in	2.24 in	3.9 in	**2UKK3**
10 Ah	0.187 in Faston	3.7 in	5.94 in	1.94 in	**2UKH2**
12 Ah	0.250 in Faston	3.7 in	1.97 in	6 in	**2UKK6**
14 Ah	0.187 in (-) / 0.250 in (+) Faston	5.51 in	2.82 in	4.25 in	**5EFF7**
42 Ah	0.250 in Faston	6.43 in	3.5 in	6.43 in	**54XH43**
	0.250 in Faston	6.43 in	3.5 in	6.43 in	**61KW87**
140 Ah	Tab with 0.315 in Bolt Hole	9.72 in	7.09 in	10.24 in	**54XH54**
8V DC					
4.2 Ah	0.187 in Faston	3.87 in	1.81 in	3.78 in	**5EFG5**
12V DC					
1.2 Ah	0.187 in Faston	2.09 in	3.82 in	1.7 in	**2UKG9**
1.3 Ah	0.187 in Faston	2.09 in	1.7 in	3.82 in	**54XH35**
	0.187 in Faston	2.09 in	1.7 in	5.94 in	**61KW79**
2.2 Ah	0.187 in Faston	2.4 in	1.4 in	7.01 in	**5EFG6**
2.3 Ah	0.187 in Faston	2.4 in	1.4 in	7.01 in	**5EFF8**
2.6 Ah	0.187 in Faston	2.4 in	1.4 in	7.01 in	**5EFF9**
2.9 Ah	0.187 in Faston	3.9 in	2.2 in	3.11 in	**54XH36**
	0.187 in Faston	3.9 in	2.2 in	3.11 in	**61KW80**
3.3 Ah	0.187 in Faston	2.62 in	2.6 in	5.28 in	**5EFG0**
	0.187 in Faston	2.62 in	2.6 in	5.28 in	**61KW74**
4 Ah	0.187 in Faston	4 in	3.54 in	2.76 in	**2UKJ1**
5 Ah	0.187 in Faston	3.98 in	3.54 in	2.76 in	**2UKJ3**
	0.250 in Faston	4 in	3.54 in	2.76 in	**2UKJ9**
5.4 Ah	0.187 in Faston	3.98 in	2.76 in	3.54 in	**5EFG7**
7 Ah	0.187 in Faston	3.7 in	5.94 in	2.56 in	**2UKJ4**
	0.187 in Faston	3.7 in	5.94 in	2.56 in	**61KW58**
7.2 Ah	0.187 in Faston	3.78 in	2.58 in	5.94 in	**54XH37**
	0.187 in Faston	3.78 in	2.58 in	5.94 in	**61KW81**
7.5 Ah	0.187 in Faston	3.78 in	2.58 in	5.94 in	**5EFG8**
	0.250 in Faston	3.78 in	2.58 in	5.94 in	**5EFH6**
8 Ah	0.250 in Faston	3.7 in	2.56 in	5.94 in	**54XH38**
	0.250 in Faston	3.7 in	2.56 in	5.94 in	**61KW82**
8.5 Ah	0.187 in Faston	3.78 in	5.94 in	2.56 in	**2UKK2**
9 Ah	0.250 in Faston	3.78 in	2.56 in	5.94 in	**54XH39**
	.250 in Faston	3.78 in	2.56 in	5.94 in	**61KW83**
10 Ah	Tab with 0.197 in Bolt Hole	4.19 in	2.56 in	5.94 in	**5EFG9**
	0.250 in Faston	4.37 in	2.56 in	6 in	**5EFH0**
	Tab with 0.197 in Bolt Hole	4.19 in	2.56 in	5.94 in	**61KW78**
12 Ah	0.250 in Faston	3.78 in	6 in	3.88 in	**2UKH3**
17 Ah	Tab with 0.197 in Bolt Hole	6.54 in	7.12 in	2.99 in	**2UKH5**
	Tab with 0.197 in Bolt Hole	6.54 in	7.12 in	2.99 in	**61KW57**
18 Ah	Tab with 0.217 in Bolt Hole	6.6 in	3.06 in	7.15 in	**54XH40**
	Tab with 0.220 in Bolt Hole	6.6 in	3.06 in	7.15 in	**61KW84**
20 Ah	Tab with 0.197 in Bolt Hole	6.54 in	7.13 in	2.99 in	**2UKK8**
	Tab with 0.197 in Bolt Hole	6.54 in	7.13 in	2.99 in	**61KW64**

Capacity	Terminal Connection	H	W	D	Item No.
AGM with ABS Housing (Cont.)					
12V DC (Cont.)					
24 Ah	Tab with 0.197 in Bolt Hole	4.96 in	6.61 in	6.97 in	**2UKL3**
	Tab with 0.197 in Bolt Hole	4.96 in	6.61 in	6.97 in	**61KW67**
26 Ah	Tab with 0.217 in Bolt Hole	5.04 in	6.89 in	6.57 in	**54XH41**
	Tab with 0.240 in Bolt Hole	5.04 in	6.89 in	6.57 in	**61KW85**
28 Ah	Tab with 0.197 in Bolt Hole	7.12 in	4.96 in	6.61 in	**5EFG1**
	Tab with 0.197 in Bolt Hole	7.12 in	4.96 in	6.61 in	**61KW75**
33 Ah	Tab with 0.25 in Bolt Hole	6.1 in	7.72 in	5.16 in	**2UKL4**
	M6 Receptacle	6.26 in	5.16 in	7.75 in	**5EFH2**
	Tab with 0.340 in Bolt Hole	6.26 in	5.19 in	7.75 in	**54XH42**
	Tab with 0.197 in Bolt Hole	6.1 in	7.72 in	5.16 in	**61KW68**
35 Ah	L Term with .34 diameter hole	6.26 in	5.19 in	7.75 in	**61KW86**
40 Ah	Tab with 0.197 in Bolt Hole	7 in	6.54 in	7.72 in	**5EFG2**
	Tab with 0.197 in Bolt Hole	7 in	6.54 in	7.72 in	**61KW76**
55 Ah	Tab with 0.197 in Bolt Hole	8.27 in	5.44 in	9.06 in	**2UKL5**
75 Ah	Tab with 0.197 in Bolt Hole	8.27 in	6.61 in	10.24 in	**2UKL7**
100 Ah	Tab with 0.315 in Bolt Hole	8.46 in	12.95 in	6.77 in	**2UKL8**
	Tab with 0.315 in Bolt Hole	8.46 in	12.95 in	6.77 in	**61KW69**
800 mAh	2 Pin Wire Leads	2.44 in	3.78 in	0.98 in	**2UKG8**
AGM with Flame Retardant ABS Housing					
6V DC					
8.5 Ah	0.187 in Faston	3.7 in	5.91 in	1.34 in	**2UKK4**
12 Ah	0.250 in Faston	3.66 in	5.94 in	1.97 in	**2UKK7**
	0.250 in Faston	3.66 in	5.94 in	1.97 in	**61KW63**
12V DC					
3.3 Ah	0.187 in Faston	2.44 in	5.28 in	2.6 in	**2UKH8**
5 Ah	0.250 in Faston	3.98 in	3.5 in	2.72 in	**2UKK1**
	0.250 in Faston	3.98 in	3.5 in	2.72 in	**61KW61**
7 Ah	0.187 in Faston	3.7 in	5.94 in	2.56 in	**2UKJ5**
	0.187 in Faston	3.7 in	5.94 in	2.56 in	**61KW59**
8.5 Ah	0.187 in Faston	3.7 in	5.94 in	2.56 in	**2UKK5**
	0.187 in Faston	3.7 in	5.94 in	2.56 in	**61KW62**
12 Ah	0.250 in Faston	3.7 in	5.94 in	3.9 in	**2UKH4**
	0.250 in Faston	3.7 in	5.94 in	3.9 in	**61KW56**
17 Ah	M6 Receptacle	6.6 in	7.75 in	3.06 in	**2UKH6**
20 Ah	Tab with 0.197 in Bolt Hole	6.54 in	7.73 in	2.99 in	**2UKK9**
	Tab with 0.197 in Bolt Hole	6.54 in	7.73 in	2.99 in	**61KW65**
40 Ah	10-32" Receptacle	6.89 in	7.72 in	6.54 in	**2UKJ8**
	10-32" Receptacle	6.89 in	7.72 in	6.54 in	**61KW60**
GEL with ABS Housing					
6V DC					
200 Ah	Tab with 0.315 in Bolt Hole	9.72 in	7.13 in	10.38 in	**54XH44**
	Tab with 0.315 in Bolt Hole	9.72 in	7.13 in	10.38 in	**61KW88**
	Tab with 0.315 in Bolt Hole	9.72 in	7.09 in	10.24 in	**61KW94**
12V DC					
60 Ah	10-32" Receptacle	6.89 in	6.63 in	10.13 in	**54XH46**
	10-32" Receptacle	6.89 in	6.63 in	10.13 in	**61KW90**
75 Ah	Tab with 0.315 in Bolt Hole	8.05 in	6.79 in	10.25 in	**54XH45**
	Tab with 0.315 in Bolt Hole	8.05 in	6.79 in	10.25 in	**61KW89**
100 Ah	Tab with 0.315 in Bolt Hole	8.23 in	6.81 in	12.95 in	**54XH53**
110 Ah	Tab with 0.315 in Bolt Hole	8.23 in	6.81 in	12.95 in	**61KW93**
140 Ah	Tab with 0.315 in Bolt Hole	8.43 in	8.11 in	20.87 in	**54XH47**
180 Ah	Tab with 0.315 in Bolt Hole	8.43 in	8.11 in	20.87 in	**61KW91**
220 Ah	Tab with 0.315 in Bolt Hole	8.66 in	10.55 in	20.47 in	**54XH48**
250 Ah	Tab with 0.315 in Bolt Hole	8.66 in	10.55 in	20.47 in	**61KW92**

Battery Chargers and Maintainers

Sealed lead acid battery chargers and maintainers recharge or maintain the charge of SLA batteries so they're ready for use. These trickle chargers supply a slow, constant charge that typically takes hours to reach full capacity. Slow charging reduces the risk of damage to the battery while maximizing the charge level and life cycle. Charging a battery fully replenishes its charge before it's returned to service, while maintaining a battery keeps it at full charge during storage. Sealed lead acid battery chargers and maintainers should match the voltage of the battery being charged. These devices are commonly used by service and repair personnel. For more chargers see page 925.

54XH26

54XH31

Voltage	Operating Modes - Charger	Output Current - Charging	Output Current - Maintaining	Terminal Type	W	H	D	Item No.
Plug In								
For Use With Battery Type: AGM, Deep Cycle								
6VDC	Fast Charging, Topping Charge	500 mA	25 mA	Screw	2.2 in	3.19 in	1.81 in	**54XH27**
12VDC	Fast Charging, Topping Charge	500 mA	25 mA	Screw	2.2 in	3.19 in	1.81 in	**54XH26**
	Fast Charging, Topping Charge	1 A	50 mA	Screw	2.74 in	3.77 in	2.24 in	**54XH28**
Desk Top								
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium								
12VDC	Fast Charging, Fully Charged, Topping Charge	1 A	50 mA	Wire Leads	2.69 in	4.37 in	1.34 in	**54XH31**
	Fast Charging, Fully Charged, Topping Charge	2 A	100 mA	Wire Leads	2.69 in	4.37 in	1.34 in	**54XH32**
	Fast Charging, Fully Charged, Topping Charge	4 A	200 mA	Wire Leads	2.69 in	4.37 in	1.34 in	**54XH33**

Look for this icon for Fluke Connect® wireless-enabled tools.
Learn more about Fluke Connect on page 610.

Fluke 3000FC 31FN10

Fluke 289 1EVC3

Fluke 27 II 4GUE2

Fluke 2811 EX 24K480

Fluke 77 IV 1TFV1

Fluke 87 V 4EB18

Fluke 116 1GAJ1

Fluke 179 6MR09

Fluke 233 4GUE6

FLUKE.

Digital Multimeters

Rugged, high-quality meters are designed for field professionals in a wide range of applications. All except 24K480 feature audible continuity.

FLUKE 3000FC SERIES WIRELESS MULTIMETER

True-RMS Wireless Multimeter with Fluke Connect and ShareLive video call. Designed for professional technicians to troubleshoot and repair many problems in electrical and electronic systems. AC and DC voltage measurements to 1000V. AC and DC current with 0.01mA resolution. Continuity, resistance, diode test, capacitance, and frequency measurements. Min./max. recording. CAT III 1000V, CAT IV 600; IP54.

FLUKE 289 TRUE RMS INDUSTRIAL LOGGING MULTIMETER

Industrial logging multimeter designed to solve complex problems in electronic, plant, automation, power distribution, and electro-mechanical equipment. Log data and review it graphically on-screen, solve problems faster, and help minimize downtime. Communicate wirelessly with Fluke Connect and ir3000 FC wireless connector (sold separately).

FLUKE 28 II EX INTRINSICALLY SAFE TRUE RMS DIGITAL MULTIMETER

Completely sealed, IP67 case. 10-ft. drop-resistant. For testing and troubleshooting in petroleum, chemical, or pharmaceutical environments and other hazardous zones: Class 1 Div. 1 Zone and 2 (gas), Class 2 Div. 1, and Class III Zone 21 (dust) areas. The enclosure is IEC 6029 water and dustproof. CAT III 1000V pollution degree 2 and CAT IV 600V pollution degree 2. Intrinsically safe and regulatory compliance certifications include Aex ia IIC T4 and AEx iaD T130°C.

Fluke 116 HVAC Multimeters with Temperature and Microamps

Auto-V automatic AC/DC voltage detection helps eliminate guesswork and LoZ low-impedance input reduces chance of false readings due to ghost voltage. Built-in thermometer and microamp measurements quickly troubleshoot problems with HVAC equipment and flame sensors.

FLUKE 179 TRUE RMS DMMS

Ideal for working with HVAC or electrical equipment, or in small spaces. Feature a digital display with analog bar graph and built-in temperature measurements. All inputs are protected to IEN61010-1 CAT IV 600V/CAT III 1000V. CSA Certified and TuV Listed.

Instrument Counts	Basic DC Accuracy	Instrument Safety Rating	Max. AC/ DC Volts	Max. AC/ DC Amps	Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	Mfr. Model	STANDARD Item No.	NIST Item No.
6000	+/-0.09% of Reading +2 Digits	CAT III 1000V, CAT IV 600V	1,000	10	50 megohm	1 Hz to 100 kHz	2 nF to 9999 uF	14° to 122°F	FLK-3000FC	**31FN10**	—
50,000	+/-0.025% of Reading +2 Digits		1,000	10	500 megohm	0.01 Hz to 1 MHz	1 nF to 100 mF	-328° to 1994°F	Fluke-289	**1EVC3**	—
			1,000	10	500 megohm	0.01 Hz to 1 MHz	1 nF to 100 mF	-328° to 1994°F	Fluke-287	—	**1EVC6**
6000	+/-0.10% of Reading + 1 Digit		1,000	10	50 megohm	0.5 Hz to 200 kHz	1 nF to 9999 uF	—	Fluke-27 II	**4GUE2**	**4GUE3**
6000/19,999	+/-0.50% of Reading + 1 Digit		1,000	10	50 megohm	0.5 Hz to 200 kHz	1 nF to 9999 uF	-328° to 1994°F	Fluke-28 II	**4GUE4**	**4GUE5**
20,000	+/-0.05% of Reading + 1 Digit	CAT IV 600V	1,000	10	50 megohm	0.5 Hz to 200 kHz	10 nF to 9999 uF	-328° to 1994°F	FLUKE-28IIEX/ ETL	**24K480**	—
6000	+/-0.30% of Reading + 1 Digit	CAT III 1000V, CAT IV 600V	1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 9999 uF	—	Fluke-77 IV	**1TFV1**	**1TFV2**
	+/-0.10% of Reading + 1 Digit		1,000	10	50 megohm	0.01 Hz to 200 kHz	10 pF to 9999 uF	—	Fluke-83-V	**4EB17**	—
6000/19,999	+/-0.05% of Reading + 1 Digit		1,000	10	50 megohm	0.5 Hz to 200 kHz	10 pF to 9999 uF	-328° to 1994°F	Fluke-87-V	**4EB18**	—
6000	+/-0.10% of Reading + 1 Digit		1,000	10	50 megohm	0.01 Hz to 200 kHz	1 nF to 9999 uF	-238 to 1194°F (-200 to 1090°C)	Fluke-83-V	—	**4EB20**
6000/19,999	+/-0.05% of Reading + 1 Digit		1,000	10	50 megohm	0.5 Hz to 200 kHz	1 nF to 9999 uF	-328° to 1994°F	Fluke-87-V	—	**4EB21**
6000	+/-0.50% of Reading +2 Digits	CAT III 600V, CAT IV 300V	600	10	60 kilohm	—	9999 uF	14° to 122°F	Fluke-113	**2VGA1**	**2WTK1**
		CAT III 600V	600	—	40 megohm	—	—	—	Fluke-114	**1GAH8**	—
			600	10	40 megohm	5 Hz to 50 kHz	—	14° to 122°F	Fluke-114	—	**2WTK3**
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	—	Fluke-115	**1GAH9**	—
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	14° to 122°F	Fluke-115	—	**2WTK5**
			600	600 uA	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	-40° to 752°F	Fluke-116	**1GAJ1**	**2WTK7**
			600	10	40 megohm	0.01 Hz to 50 kHz	1 nF to 9999 uF	14° to 122°F	Fluke-117	**1GAJ2**	**2WTK9**
	+/-0.15% of Reading + 2 Digits	CAT III 1000V, CAT IV 600V	1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	14° to 122°F	Fluke-175	**6MR05**	—
			1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 9999 uF	14° to 122°F	Fluke-175	—	**6MR06**
	+/-0.09% of Reading +2 Digits		1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	14° to 122°F	Fluke-177	**6MR07**	—
			1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 9999 uF	—	Fluke-177	—	**6MR08**
			1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 10,000 uF	-40° to 752°F	Fluke-179	**6MR09**	—
			1,000	10	50 megohm	0.01 Hz to 100 kHz	1 nF to 9999 uF	-40° to 752°F	Fluke-179	—	**6MR10**
	+/-0.25% of Reading + 2 Digits		1,000	10	40 megohm	5 Hz to 50 kHz	1 nF to 9999 mF	-40° to 752°F	Fluke-233	**4GUE6**	**4GUE7**

Description	For Use With	Includes	Manufacturers Warranty	Mfr. Model	Item No.
Accessories					
PC Adapter	FC3000 Series Multimeter , FC Series Modules	Windows Software CD	1 yr	FLK-PC3000FC	**31FN18**
FC Connector	Fluke Digital Multimeters	—	3 yr	FLUKE-IR3000FC	**32MX51**
Magnetic Meter Hanger	Fluke Digital Multimeters, Other Fluke Meters	9 in Hook and Loop Strap, General Purpose Hanger, Hook Hanger, Magnetic Hanger	1 yr	TPAK	**6GNP2**

Look for this icon for Fluke Connect wireless-enabled tools.
Learn more about Fluke Connect on page 610.

Fluke 179/EDA2
1LWZ6

Fluke 287/FVF
4CPU5

Fluke 289/FVF
1EVC7

Fluke 3000FC H
31FN12

Fluke T3000FC K
31FN20

Fluke 87-V/E2
1PEK9

Fluke 88 V/A
5BB61

Fluke 116/323
46N341

Fluke 62 Max+/T+P/1AC
46N344

Digital Multimeter Kits

FLUKE

Rugged, high-quality meters with advanced feature sets are designed for field professionals in a wide range of applications.

Description	Includes	Mfr. Model	Item No.
Digital Multimeters			
Digital Multimeter Kit	Alligator Clips, Cable, Instructions, Magnetic Meter Hanger, Soft Carrying Case, Software, Test Lead Set, Thermocouple	Fluke-289/FVF	**1EVC7**
Digital Multimeter Kit	Alligator Clips, Batteries, Instructions, Interface Cable, Magnetic Hanging Kit, Software, Temperature Probe, Test Leads	Fluke-287/FVF	**4CPU5**
Digital Multimeter Kit	Electronic Test Probes, Heavy Duty Hook Clips,Magnetic Hanging Kit, Integrated Temp. Probe, Silicone Test Leads, Soft Case	Fluke 179/EDA2 Kit	**1LWZ6**
Digital Multimeter Kit	Alligator Clips, Magnetic Hanging Kit, Soft Case, Temp. Probe, Test Leads, Yellow Meter Boot	Fluke-87-V/E2	**1PEK9**
Digital Multimeter Kit	9V Battery (Installed), Getting Started Manual, Lightweight Soft Accessory Case, Long Reach Alligator Clips, Magnetic Meter Hanging Kit, Silicone Test Leads, Temperature Probe, Test Probes	FLUKE-87-5/E2 CWG	**4EB22**
Digital Multimeter Kit	(3) AA Batteries, 3000FC Multimeter, CD, Hook Clips, Magnet Hanger, Sharp Test Probes, Soft Case, Test Leads (TL224)	3000FC/EDA2/WWG	**45GG43**
Digital Multimeter Kit	Alligator Clips, Battery, Battery Charger and Adapter, Carrying Case, Digital Multimeter, Flexible Current Probe, Hanging Strap, Test Leads	FLK279FC/IFLEX	**48RH42**
Digital Multimeter Kit	Alligator Clips and Fluke PRV240 Proving Unit Kit, Battery, Test Leads Thermocouple	FLUKE-87V/PRV	**40KJ11**
Digital Multimeter Kit	Battery, Test Leads and Fluke PRV240 Proving Unit Kit	FLUKE-117/PRV	**40KJ12**
Wireless Digital Multimeter Hanging Kit	(3) AA Batteries, 3000FC Multimeter, CD, Magnet Hanger, Soft Case, Test Leads	3000FC/TPAK/WWG	**45GG44**
Instrument Combination Kits			
Wireless Temperature Kit	Alligator Clips, Bead Probe, Magnet Strap, Multimeter, Quick Start Guide Only, Test Leads	FLK-T3000FC K	**31FN20**
Wireless General Maintenance Kit	1X AC Voltage Module, 1X Current Module, 1X DC Voltage Module, 1X iFlex Coil, 1X PC Adapter, 1X Windows Software CD, 3X Alligator Clips, 3X Test Leads, Batteries, Information Pack, Multimeter, Soft Case	FLK-3000FC G	**31FN11**
Wireless HVAC System Kit	1X Alligator Clips, 1X Current Clamp, 1X PC Adapter, 1X Temperature Module, 1X Test Leads, 1X Windows Software CD, Batteries, Information Pack, Multimeter, Soft Case	FLK-3000FC H	**31FN12**
Wireless Industrial Kit	1X AC Voltage Module, 1X PC Adapter, 1X Windows Software CD, 2X Alligator Clips, 2X Test Leads, 3X Current Module, 3X iFlex Coil, Batteries, Information Pack, Multimeter, Soft Case	FLK-3000FC I	**31FN13**
Digital Multimeter Kit	3000FC Multimeter, Alligator Clips, Batteries, IR Adapter, Magnet Hanger, Manual CD, PC Software, Softcase, Test Leads, Thermocouple Adapter	287/FVF/IR3000/WWG	**45GG41**
Digital Multimeter Kit	3000FC Multimeter, Alligator Clips, Batteries, IR Adapter, Magnet Hanger, Manual CD, PC Software, Softcase, Test Leads, Thermocouple Adapter	289/FVF/IR3000/WWG	**45GG42**
Infrared Thermometer Kit	Mfg. No. Fluke-62 MAX+, T+PRO, Fluke 1AC-II, Fluke C115 Soft Case, Battery, Instruction Sheet and Information Sheet	Fluke62Max+/T+P/1AC	**46N344**
Infrared Thermometer Kit	Mfg. No. Fluke-62 MAX+, Fluke-323, Fluke 1AC II, Fluke C115 Soft Case, TL175; Battery, Registration Card and Instruction Sheet	Fluke62Max+/323/1AC	**46N345**
Digital Multimeter, Clamp On Kit	80AK-A Thermocouple Adapter, 80BK Integrated Temperature Probe, 80pk-11 Pipe Clamp Thermocouple, C115 Soft Carry Case, Fluke-323 True RMS Clamp Meter, Information Pack, Mfg. No. Fluke-116 Multimeter w/Batteries, TL175 Test Leads, TPAK Hanging Strap	FLUKE-116/323	**46N341**
Digital Multimeter, Clamp On Kit	C115 Soft Carry Case, Fluke-323 True RMS Clamp Meter, Information Pack, Mfg. No. Fluke-117 Multimeter w/Batteries, TL175 Test Leads, TPAK Hanging Strap	FLUKE-117/323	**46N342**
Digital Multimeter Kit	1AC-II Voltage Detector, 3000FC Multimeter, Alligator Clips, Batteries, Test Leads	3000FC/1AC-II/WWG	**45GG40**
Digital Multimeter, Infrared Thermometer Kit	62Max Infrared Thermometer, 80AK-A Thermocouple Adapter, 80BK Integrated Temperature Probe, 80pk-11 Pipe Clamp Thermocouple, C115 Soft Carry Case, Information Pack, Mfg. No. Fluke-116 Multimeter w/Batteries, TL175 Test Leads, TPAK Hanging Strap	FLUKE-116/62Max+	**46N340**
Voltage Detectors			
AC and DC Voltage Module Kit	Alligator Clips, Batteries, Information Pack, Magnet Strap, Multimeter, Soft Case, Test Leads	FLK-V3003FC K	**31FN27**
AC Voltage Module Kit	Alligator Clips, Batteries, Information Pack, Magnet Strap, Multimeter, Soft Case, Test Leads	FLK-V3000FC K	**31FN22**
DC Voltage Module Kit	Alligator Clips, Batteries, Information Pack, Magnet Strap, Multimeter, Soft Case, Test Leads	FLK-V3001FC K	**31FN26**
Automotive Test and Record Instruments			
Automotive Multimeter Kit	Fluke 88V Automotive Digital Multimeter, 3MU86 Leads (TL224), 3MU87 Probes (TP220), 3MU85 Alligator Clips (AC285), 4XL48 Hanger (TPAK) 2DPH6 Temp. Probe (80BK-A), 5U843 RPM Pick-up (RPM80) 2 Probe Pins, Insulation Piercing Clip, 5U830 Case, (C800), 4YE79 Holster, 9V Battery and Instructions	Fluke 88 V/A	**5BB61**
Accessories			
Soft Carrying Case	Detachable, Extendable Shoulder Strap	C280	**2VFZ9**
Modular Test Lead Kit	Mfr. No. AC220 SureGrip Alligator Clip Set, Mfr. No. TL224 SureGrip Silicone Test Lead Set, Mfr. No. TP220 SureGrip Test Probe Set	Fluke-TL220	**3EB21**

1PTL1

22XX21

2ATA6

EXTECH INSTRUMENTS · WESTWARD · AMPROBE · FLIR

Digital Multimeters

Audible continuity lets your eyes focus on other test results. Each includes test leads and batteries. Select models have the following features: Low-impedance (LoZ) mode prevents false readings caused by ghost voltages. Low-pass filter (LP) reduces noise for accurate readings. Microamp (M) measurement is for HVAC flame rod applications. Noncontact voltage (NCV) verifies power is off to help assure safe testing. True RMS (TRMS) boosts accuracy when reading noisy, distorted, or nonsinusoidal waveforms.

Extech Pocket—Easy-to-read meters slip into your pocket to keep with you at all times—great for most mechanics and technicians.

Extech Compact EX350 Series—Advanced features include LoZ and Low-Pass Filter.

Extech Full-Size EX400 Series—1" digits are easy to read.

Westward Kit—Conveniently combines digital multimeter 22XX19 with infrared thermometer 28AF72 and accessories for on-the-go maintenance and troubleshooting.

Amprobe Pocket Digital Multimeters—1WKN7: one-handed, pen-style meter has digital/analog displays. 1WKN5: ⅜"-thick meter displays large digits with icons. Convenient attached test leads. 1WKN5 automatically selects resistance or AC or DC voltage.

Amprobe Full-Size Digital Multimeters—1WKP5 performs component and logic tests. 12U584 is designed for electrical contractors and checks voltage, current, continuity, resistance, startup capacitors, capacitor banks, frequency, and temperature. 34K450 and 12U583 offer HVAC-specific features.

FLIR Industrial—22UL80 and 22UL81 have integrated Bluetooth connectivity compatible with the FLIR Tools mobile app.

Instrument Counts	Basic DC Accuracy	Instrument Safety Rating	Max. AC/DC Volts	Max. AC/DC Amps	*Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	Footnotes	Mfr. Model	STANDARD Item No.	NIST Item No.
Extech, Pocket												
4000	+/-0.80% of Reading + 2 Digits	CAT III 1000V, CAT IV 600V	600	200 mA	40	0.001 Hz to 10 kHz	1 pF to 200 uF	No Temp	AR, C	DM220	**1PTL1**	—
2000	+/-0.50% of Reading +2 Digits	CAT II 600V	600	10 DC	20	—	—	-4° to 1400°F	B, MR	MN35	**3LXX9** † ‡ #	—
4000	+/-0.80% of Reading +4 Digits		600	10	40	0.01 Hz to 5 MHz	1 pF to 100 uF	-4° to 1400°F	AR, C, T	MN36	**3LXY3** #	—
Extech, Compact EX300 Series												
2000	+/-0.50% of Reading +2 Digits	CAT III 600V	600	10	2000	—	—	No Temp	B, MR, NCV	EX310	**1PTK4** ‡	**1PTL4** ‡
4000	+/-0.50% of Reading +2 Digits		600	10 DC	40	0.001 Hz to 10 MHz	1 pF to 200 uF	-4° to 1382°F	AR, C, D, DC, NCV	EX330	**1PTK6** ‡ ‡‡ #	**1PTL6** ‡ ‡‡ #
Extech, Compact EX350 Series												
4000	+/-0.50% of Reading +2 Digits	CAT III 600V	600	10	40	0.001 Hz to 10 MHz	1 pF to 60 mF	No Temp	AR, LoZ, LP, M, TRMS	EX350	**40JK32** #	—
6000	+/-0.50% of Reading +2 Digits		600	10	60	0.001 Hz to 10 MHz	1 pF to 60 mF	-40° to 1832°F	AR, LoZ, LP, M, TRMS	EX355	**40JK33** #	—
Extech, Full Size EX400 Series												
2000	+/-0.50% of Reading +2 Digits	CAT III 600V	750	20	20	—	—	-4° to 1382°F	T, MR	EX410	**1GUG7** † †† #	—
4000	+/-0.30% of Reading +2 Digits		750	10	40	0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX470A	**1GUH1** † †† #	—
	+/-0.30% of Reading +2 Digits		600	10		0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX430A	—	**1GUH7** † †† #
	+/-0.30% of Reading +2 Digits		750	20		0.001 Hz to 10 MHz	10 pF to 100 uF	-4° to 1382°F	AR, T, IR, TRMS	EX470A	—	**1GUH8** † †† #
Westward, Digital Multimeters												
6000	+/-0.50% of Reading +2 Digits	CAT III 600V	600	10	60	0.001 Hz to 10 MHz	9999 pF to 99,990 uF	-40° to 1832°F	C, D, DC, DT, TRMS, AR	22XX19	**22XX19** † ‡‡	—
4000	+/-0.50% of Reading +2 Digits		600	10	40	0.001 Hz to 10 MHz	9999 pF to 99,990 uF	-40° to 183°F	C, D, DC, DT, TRMS, AR	22XX20	**22XX20** †	—
2000	+/-0.50% of Reading +2 Digits		600	10	20	—	No	-40° to 183°F	D, TRMS, AR	22XX21	**22XX21** †	—
Westward, Kit												
		Digital Multimeter, Infrared Thermometer Kit							C, IR, D, T	22XX27	**22XX27** † ##	—
Amprobe, Pocket												
3400	+/-0.50% of Reading +2 Digits	CAT II 600V, CAT III 300V	600	10	34	—	—	32° to 104°F	G	DM73C	**1WKN7** ***	—
6000	+/-0.80% of Reading + 3 Digits		600	2,000 uA	6	10 Hz to 30 kHz	100 nF to 2000 uF	32° to 104°F	LoZ, NCV, AR	PM55A	**1WKN5**	—
3999	+/-0.50% of Reading + 1 Digit	CAT I 1000V, CAT II 600V, CAT III 300V	750	10	40	1 Hz to 1 Mhz	4000 uF	-4° to 1832°F	—	34XR-A	**1WKP4**	—
Amprobe, Full-Size												
9999	+/-0.50% of Reading +2 Digits	CAT I 1000V, CAT II 600V, CAT III 300V	750	10	40	0.01 Hz to 10 MHz	400 uF	32° to 113°F	—	37XR-A	**1WKP5** ‡	—
4000	+/-0.80% of Reading +1 Digit	CAT II 1000V, CAT III 600V	600	10		10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 400, 4000 uF	-40° to 1832°F	T, NCV, IF	AM-530	**12U584** † ‡‡	—
6000	+/-0.30% of Reading +2 Digits	CAT III 1000V, CAT IV 600V	1,000	10	60	10 Hz to 10MHz	—	—	C, M, T, NCV, IF, DT	AM-560	**34K450** † ##	—
	+/-0.50% of Reading +2 Digits		1,000	10		10 Hz to 10MHz	—	—	T, NCV, IF	AM-570	**34K451** † ##	—
4000	+/-0.80% of Reading +1 Digit	CAT III 600V	600	10	40	10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 100 uF	—	NCV, IF	AM-510	**12U582**	—
	+/-0.80% of Reading +1 Digit	CAT II 1000V, CAT III 600V	600	10		10 Hz to 10 MHz	0 to 40, 400 nF/4, 40, 400, 4000 uF	-40° to 1832°F	C, M, T, NCV, IF, DT	AM-520	**12U583** † ‡‡	—
1999	+/-0.10% of Reading + 2 Digits	CAT IV 600V	1,000	2	20	—	—	-4° to 1832°F	—	HD110C	**2ATA6**	—
9999	+/-0.10% of Reading + 5 Digits	CAT IV 1000V	1,000	2	40	100 Hz to 10 MHz	40 nF to 400 uF	-4° to 2372°F	—	HD160C	**2ATA7**	—
FLIR, Industrial												
4000/40,000	+/-0.05% of Reading + 1 Digit	CAT IV 600V	1,000	10	40	5 Hz to 100 kHz	40 nF to 40 mF	-328° to 2192°F	LoZ, T, AR, TRMS, DL	DM93	**22UL80**	**22UL81**

** Measure in megohms, except 1PTK4 and 1PTL4 are kilohms. † Includes carrying case. ‡ Includes holster. # Includes bead wire temperature probe. †† Includes tilt stand and magnetic hanging strap. ‡‡ Includes temperature probe. ## Includes temperature adaptor and hook-and-loop strap. *** Includes spare probe tip.*

Footnotes: AR = autoranging, B = 1.5V/9V battery test, C = capacitance, D = data hold, DC = duty cycle, DL = datalogging up to 20,000 points, DT = diode test, G = analog bargraph, IF = integrated flashlight, IR = infrared temperature, LoZ = low impedance mode, LP = low-pass filter, M = microamp (μA), MR = manual ranging, NCV = noncontact voltage, T = Type K temperature probe.

FLIR

DM285 Imaging Multimeter

- True RMS AC voltage and current
- High-contrast TFT LCD

Visually guides you to the exact location of an electrical problem with Infrared Guided Measurement (IGM) technology powered by a built-in 160 x 120 FLIR thermal imager. Features LoZ (low-impedance mode) and VFD (low-pass filter) to help you solve even the most complicated electrical issues. Complete with test leads, test lead holder, alligator clips, and Type K Thermocouple.

444M24

Max. AC/DC Volts	Max. AC/DC Amps	Basic DC Accuracy	Max. Ohms	Capacitance Range	Instrument Frequency Counter Range	Data Logging	Battery Type	Mfr. Model	Item No.
1,000	10	+/-0.09%	50 megohm	1 pF to 40 mF	1 Hz to 100 kHz	Yes	AA Alkaline	DM285	**444M24**

EXTECH INSTRUMENTS

Waterproof Multimeters

Designed for heavy use in industrial applications. Measure AC/DC voltage and current, resistance, dual-sensitivity frequency (electrical and electronic), duty cycle, audible continuity, 2.8V diode test, and have data hold and auto-off functions. 1PTK1 is average responding. 1PTK3 also measures temperature. 2ELP6 has an analog bargraph. 2ELP7 has a 40,000-count display. All models include test leads, magnetic hanging strap, carrying case, and 9V battery. All except 1PTK1 have Type K temperature probe.

1PTK3

2ELP6

Instrument Counts	Basic DC Accuracy	Max AC/DC Volts	Max AC/DC Amps	Audible Continuity	Max. Ohms	Instrument Frequency Counter Range	Capacitance Range	Temp. Range	AC Response	Features*	Mfr. Model	STANDARD Item No.	NIST Item No.
4000	+/-1.20% of Reading + 2 Digits	1,000	10	Yes	40 megohm	0.001 Hz to 10 MHz	10 pF to 100 uF	No Temp	Average	C, F, IP67	EX503	**1PTK1**	**1PTL7**
4000		1,000	10	Yes	40 megohm			-4° to 1382°F	TRMS	C, F, IP67	EX505	**1PTK3**	**1PTL8**
6000	+/-0.09% of Reading +2 Digits	1,000	20	Yes	40 megohm	0.001 Hz to 40 MHz	10 pF to 1000 uF	-50° to 1382°F	TRMS	C, F, G, IP67	EX520	**2ELP6**	**3EMK7**
40,000	+/-0.06% of Reading + 2 Digits	1,000	20	Yes	40 megohm	0.001 Hz to 100 MHz	1 pF to 40 mF	-50° to 1382°F	TRMS	C, F, G, IP67	EX530	**2ELP7**	**3EMK8**

***** *C = capacitance, F = frequency, G = analog bargraph, IP67 = dustproof and waterproof to 1m.*

Simpson

Analog Multimeters

- Accuracy: VAC ±3% full scale; VDC ±2% full scale

Analog display gives you a quick visual status check. Each includes test leads and batteries.

Rugged 4CWP2 is designed for railroad signaling and communications service, with an AC current transformer, current-limiting diode, and adjustable pointer stop. Padded case.

Note: Simpson Instruments optional clamp current probes 2T416 or 2T978 extend meters' AC capability up to 250A; sold separately on Grainger.com or call 1-800-GRAINGER (472-4643).

4CWP2

1TC61

Max. AC/DC Volts	Max. AC/DC Amps	Audible Continuity	Max. Ohms	dB	Mirrored Scale	FUSED OVERLOAD PROTECTION Mfr. Model	FUSED OVERLOAD PROTECTION Item No.	PUSH-BUTTON OVERLOAD PROTECTION Mfr. Model	PUSH-BUTTON OVERLOAD PROTECTION Item No.
600	30	No	6 kilohm	-10 to 56	Yes	12113	**4CWP2**	—	—
1,000	10	Yes	20 megohm	-20 to +50	Yes	260-8XI	**1TC61**	260-8XPI	**1TC62**
	10	No	20 megohm	-20 to +50	Yes	260-8	**1A587**	—	—
	10	Yes	20 megohm	-20 to +50	Yes	—	—	260-8P	**1T779**
	10	Yes	20 megohm	-20 to +50	Yes	—	—	260-8PRT	**1T848**

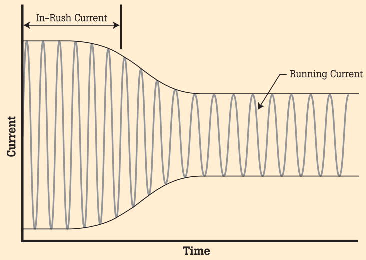
Description	Mfr. Model	Item No.
Accessories		
Test Probe Leads, For Use With 260-7, 260-8 Series, Std.	00043	**1T608**
Yellow Nylon Carrying Case- For Use With Mfr. No. 260 Series	00832	**1TC63**
Test Probe Leads, For Use With Mfr. No. 260-8XI and 260-6LXPM	00125	**23MM52**

Look for this icon for Fluke Connect wireless-enabled tools.
Learn more about Fluke Connect on page 610.

True RMS Current vs. Inrush Current

TRUE RMS
- “RMS” (root mean square) comes from a formula that calculates the effective value (or heating value) of any AC wave shape
- Electrical components such as fuses, bus bars, conductors, and circuit breakers are rated in RMS current because their main limitation has to do with heat dissipation
- When checking an electrical circuit for overloading, the RMS current is measured and compared to the rated value for the component in question
- For circuits with AC and DC components or distorted signals, a meter with an AC+DC function is used

INRUSH
- Fluke clamps' proprietary inrush (starting) measurement takes a large number of samples at the beginning of the starting current, then digitally filters and processes the samples to calculate the actual starting current
- Measure starting current in the same manner as an overcurrent protection device
- More accurate than slower min./max. functions that can miss the event partially or completely



FLUKE

Clamp Meters

Each includes a soft carrying case.

GENERAL PURPOSE

Fluke 323/324/325 True RMS AC
- Continuity for quick checking of shorts
- Capacitance and temperature (324 and 325)
- AC/DC current measurement (325)

Small size fits easily into tight places. CAT IV 300V, CAT III 600V.

Fluke 324
20E890

HEAVY INDUSTRIAL

Fluke 353/355 True RMS AC/DC 2000A
- AC+DC true RMS ensures accurate measurement of AC+DC and distorted signals
- Selectable low-pass filter to smooth out noisy loads and stabilize readings

Measure frequency up to 1 kHz for optimum troubleshooting. Quickly analyze readings using the min., max., and avg. functions. CAT IV 600V.

Fluke 355
2FTY9

HVAC/R

Fluke 902 FC
- Flue gas temperatures with Type K thermocouple
- Flame rod testing with μA current measurement range
- Capacitance measurement

CAT IV 300V.

Fluke 902 FC
48RH39

DETACHABLE JAW

Fluke 365 True RMS AC/DC
- Built-in flashlight/torch
- Designed for use while wearing personal protective equipment
- 200A AC/DC

Detachable jaw eases wire access and viewing the display. Compact design fits in your hand. CAT III 600V, CAT IV 300V.

Fluke 365
6FXH8

FLUKE CONNECT CLAMP METER
- True RMS
- Measures up to 400A AC
- Inrush function

Fully functional meter wirelessly relays measurements to other Fluke Connect-enabled master units. Designed to be used as a standalone or as part of a system. Features logging function for recording and saving up to 65,000 readings.

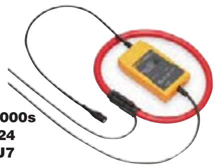
Fluke A3000FC
31FN14

Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	AC Response	Max. Ohms	Inrush	Data Hold	Jaw Cap.	Manufacturers Warranty	Mfr. Model	Item No.
General Purpose											
400	—	600 V	600 V	TRMS	4,000	—	Yes	1.1 in (28 mm)	2 yr	Fluke-323	**20E890**
400	—	600 V	600 V	TRMS	4,000	—	Yes	1.1 in (28 mm)	2 yr	Fluke-324	**20E891**
400	400	600 V	600 V	TRMS	40,000	—	Yes	1.1 in (28 mm)	2 yr	Fluke-325	**20E892**
Heavy Industrial											
1,400	400	1,000 V	1,000 V	TRMS	400	Yes	Yes	2.9 in (74 mm)	3 yr	Fluke-353	**2FTY8**
1,400	400	1,000 V	1,000 V	TRMS	400	Yes	Yes	2.9 in (74 mm)	3 yr	Fluke-355	**2FTY9**
HVAC/R											
600	200 uA	600 V	600 V	TRMS	60,000	—	Yes	1.6 in (41 mm)	No Warranty (Service Available)	Fluke-902 FC	**48RH39**
Detachable Jaw											
200	200	600 V	600 V	TRMS	6,000	—	Yes	0.7 in (18 mm)	3 yr	Fluke-365	**6FXH8**
Fluke Connect											
400	—	—	—	TRMS	—	Yes	No	1.3 in (33 mm)	3 yr	FLK-A3000FC	**31FN14**
Earth Resistance Tester											
Batteries, Earth Ground Clamp, Hard Case, Quick Reference Guide, Safety Information Guide								1.5 in (40mm)	1 yr	Fluke-1630-2 FC	**444A57**
Fluke Connect Clamp Meter Kit											
AC Clamp, Alligator Clips, Batteries, Clamp Meter, Information Pack, Soft Case, Test Leads										FLK-A3000FC K	**31FN15**

Fluke i30
2EWU9

Fluke i400
4YE82

Fluke i410
4KF12


Fluke i6000s Flex-24
2EWU7

FLUKE

Clamp and Flexible Current Probes

Extend the current-measuring capability of digital multimeters from 10A to 6000A.

Amps AC	Amps DC	Jaw Cap.	Output	Accuracy	AC Frequency Response	Safety Rating	Mfr. Model	Item No.
Clamp-On Probes								
30mA to 20A	30mA to 30A	0.7 in (19mm)	100mV/A	+/-1 % of Reading +/-2 mA	20 kHz	CAT III 300 V	Fluke-i30	**2EWU9**
0.5 to 200	—	0.8 in (20mm)	1mA/A	+/-1% + 0.5A (48 to 65 Hz)	40 Hz to 10 kHz	CAT III 600 V	Fluke-i200	**4XL41**
0.5 to 400A	—	1.2 in (32mm)	10, 1mV/A	+/-2% +0.04A (45 to 400 Hz)	5 Hz to 10 kHz	CAT III 1000 V, CAT IV 600 V	Fluke-i400s	**4YE83**
1 to 200	—	0.8 in (20mm)	10, 100mV/A	+/-1.5% of Reading + 0.5A	40 Hz to 40 kHz	CAT III 600 V	Fluke-i200S	**4XL42**
1 to 400	—	1.2 in (32mm)	1mA/A	(45 to 400 Hz), 2% + 0.06 A	5 Hz to 20 kHz	CAT III 1000 V, CAT IV 600 V	Fluke-i400	**4YE82**
1 to 400	1 to 400A	1.1 in (30mm)	1mV/A	+/-3.5% of Reading + 0.5A	3 kHz	CAT III 600 V	Fluke-i410	**4KF12**
1 to 400	1 to 400A	1.1 in (30mm)	1mV/A	+/-3.5% of Reading + 0.5A	3 kHz	CAT III 600 V	Fluke-i410-Kit	**4CB81**
1 to 600	1 to 1000A	1.1 in (30mm)	1mV/A	+/-2% of Reading + 0.5A	10 kHz	CAT III 600 V	Fluke-i1010	**4KF11**
10/100/1000A	—	2.1 in (54mm)	1, 10, 100mV/A	+/-1% of Reading +1A	5 Hz to 100 kHz	CAT III 600 V	Fluke-i1000S	**6MR11**
300	450A	0.7 in (19mm)	10, 1mV/A	+/-1% of Reading	20 kHz	CAT III 300 V	Fluke-i310S	**2EWU4**
800	—	2.1 in (54mm)	1mA/A	+/-1% of Reading	30 Hz to 10 kHz	CAT III 600 V	Fluke-i800	**2HZC5**
Flexible Probes								
6 to 6000A	—	6.5 in (165mm)	50, 5, 0.5mV/A	+/-1% of Range	10 Hz to 50 kHz	CAT III 600 V	Fluke-i6000S FLEX-24	**2EWU7**
6 to 6000A	—	10.5 in (265mm)	50, 5, 0.5mV/A	+/-1% of Range	10 Hz to 50 kHz	CAT III 600 V	Fluke-i6000S FLEX-36	**2EWU8**
20/200/2000A	—	24.0 in (610mm)	1, 10, 100mV/A	+/-1% of Range (45 to 65 Hz)	10 Hz to 20 kHz	CAT III 600 V	Fluke-i2000 FLEX	**1DGX7**

The loop opens to thread the probe into a tight space; close it again to measure.

Wireless display can be carried up to 30 ft. from the point of measurement.

Fluke 381
6FXH3

Fluke Connect Flex Clamp Meter Kit
31FN17

Clamp Meters and Flexible Current Probes

FLUKE.

Wires in tight, compact spaces. Panels out of reach. Feature extra large conductors. Designed for noise-free, reliable readings. These clamp meters are known as workhorse clamp meters, with advanced performance and easy operation.

FLUKE-373 TRUE RMS CLAMP METER

Offers advanced troubleshooting performance that is perfect for a number of AC-only current measurements. The state-of-the-art signal processing technology cuts through electrical noise to help you get stable, dependable measurements that are easy to read on the large, backlit LCD. Automatically sets the correct range, so you won't have to change positions while taking a measurement. Includes clamp meter, test leads, and soft case. CAT IV 300V; CAT III 600V.

Fluke 373
6FXH7

REMOTE DISPLAY CLAMP METER

Fluke 381 Remote Display True RMS AC/DC with iFlex

- Designed to increase productivity and save troubleshooting time
- Frequency measurement to 500 Hz with jaw or iFlex
- Min./max./avg. and inrush recording captures variations automatically
- Radio transmitter Auto-Off when display is connected to meter

The removable magnetic, wireless display increases measurement flexibility. It can be conveniently mounted where it is easily seen, and carried up to 30 ft. from the point of measurement without interfering with measurement accuracy. Integrated low-pass filter and state-of-the-art signal processing allow stable readings in noisy electrical environments. CAT IV 600V, CAT III 1000V.

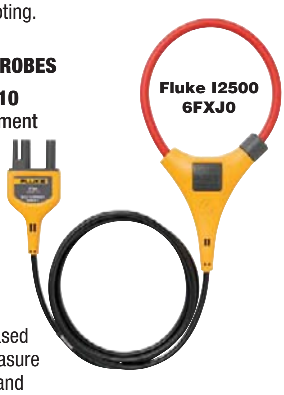
FLUKE CONNECT FLEX CLAMP METER KIT

Provides all the essentials for convenient test and measurement troubleshooting.

IFLEX FLEXIBLE CURRENT PROBES

Fluke i2500-18 and i2500-10

- 2500A AC current measurement
- Small cross-section for improved wire access
- Provide inrush and frequency on select Fluke meters, including those on this page



Fluke I2500
6FXJ0

Expand a clamp meter's measurement range to 2500A AC. Probes also provide increased display flexibility, ability to measure awkwardly sized conductors, and improved wire access. Connect directly to the meter, displaying current measurements without error-prone scaling factors. 6-ft. cord allows separation between the measurement location and the clamp meter, making it easier to view the display. 0.3" coil dia. allows measurement in tight spaces. CAT IV 600V, CAT III 1000V.

Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Inrush	Data Hold	STANDARD Mfr. Model	Item No.
Electrical								
600	—	600 V	600	6,000	—	Yes	Fluke-373	**6FXH7**
Remote Display								
999.9 A	999.9	1,000 V	1,000 V	60,000	Yes	Yes	Fluke-381	**6FXH3**
Fluke Connect Clamp Meter Kit								
Alligator Clips, Batteries, Clamp Meter, Current Module, iFlex Coil, Information Pack, Soft Case, Test Leads							FLK-A3001FC K	**31FN17**

Description	Mfr. Warranty Length	Mfr. Model	Item No.
2500 Amp AC Flexible Current Probes			
10 in Loop, For Use With Fluke Mfr. No. 381, 376, 375, 374	3 yr	Fluke-I2500-10	**6FXJ0**
18 in Loop, For Use With Fluke Mfr. No. 381, 376, 375, 374	3 yr	Fluke-I2500-18	**6FXH9**

Fluke Connect Wireless Current Modules

FLUKE.

Designed to take 3-phase measurements in ⅓ of the time. Record over time to monitor circuit load changes for an hour, a shift, or a week. Use Fluke Connect wireless to collect and share logged data from remote modules. Perform analysis with your PC and share the results using Fluke Cloud storage and ShareLive video call. Video data or graphs to get input from team members.

FLUKE A3000 FC WIRELESS AC CURRENT CLAMP MODULE

True RMS current clamp meter. Fluke Connect enabled.

FLUKE A3001 FC WIRELESS IFLEX AC CURRENT MODULE

True RMS flexible current meter. Measure around awkward-sized conductors or get into tight spaces. Fluke Connect enabled.

FLUKE 370 FC SERIES CLAMP METERS

True RMS meters offer advanced troubleshooting performance. The iFlex flexible current probe allows easy connections to wires in tight spaces. In addition, all three clamps are now part of the Fluke Connect family of wireless test tools. With a 370 FC Series Clamp Meter and Fluke Connect Measurements app, you can log and trend measurements to pinpoint intermittent faults. Transmit results wirelessly via Fluke Connect Measurement app. Create and send reports right from the field. Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple or Android devices.

Fluke 370
45MU54

Fluke A3000FC
31FN14

31FN16

Max. AC Amps	AC Current Accuracy	Jaw Cap.	Max. Conductor Size	Operating Temp.	Data Hold	Mfr. Model	Item No.
600	±2.0% + 5 Digits	1.6 in (41 mm)	750 kcmil	50° to 122°F	Yes	FLUKE-374 FC	**45MU56**
600	±2.0% + 5 Digits	1.6 in (41 mm)	750 kcmil	50° to 122°F	Yes	FLUKE-375 FC	**45MU55**
1,000	±2.0% + 5 Digits	1.6 in (41 mm)	750 kcmil	50° to 122°F	Yes	FLUKE-376 FC	**45MU54**
400	±2.0% + 5 Digits	1.3 in (33 mm)	1.18 in (30.0mm)	50° to 122°F	No	FLK-A3000FC	**31FN14**
2,500	±3.0% + 5 Digits	10.0 in (254 mm)	10 in	50° to 122°F	No	FLK-A3001FC	**31FN16**

45JW90

Imaging 600A True RMS AC/DC Clamp Meters with IGM

FLIR

- Frequency counter: 60 kHz
- Smart diode with disable
- Inrush current
- LoZ
- Variable-frequency drive (VFD) low-pass filter
- 60 Hz frequency calibration

2-in-1 testers have a built-in thermal imager that uses Infrared Guided Measurement (IGM) and a laser pointer with crosshair to pinpoint potential electrical problems and capture center-point temperature readings. The narrow jaw and built-in worklights help you enter tight or dark locations. Both models include CAT IV silicon test leads and AAA batteries. CAT IV 600V. 444M26 can also datalog and store 10 sets of 40,000 scalar measurements and 100 images. Bluetooth connectivity for easy transfer to a PC and direct connection to FLIR Tools.

Jaw Cap.	Max. AC/DC Amps	Max. AC/DC Volts	Max. Ohms	Capacitance	Temp. Range	Battery Type	Std.	Mfr. Model	Item No.
Clamp Meter									
1.4 in (36 mm)	600	1,000 V	6,000	1,000 uF	-4° to 302°F	AAA	CE, CUL, FCC	CM174	**45JW90**
Wireless Clamp Meter Module									
1.3 in (33 mm)	600	1,000 V	6000	1,000 uF	14° to 302°F	AA	CE, cULus	CM275	**444M26**

22UL78

Clamp Meters with IR Thermometer

FLIR

Commercial-grade electrician's 1000A meters also provide noncontact infrared temperature measurements on vents, equipment, and motors. Measure voltage, resistance, frequency, AC/DC current, and capacitance, with min./max./avg., rel., data hold, and peak hold. LCD shows results, or stream them to a compatible mobile device with the free FLIR Tools Mobile App. Readings also can be transmitted directly to a FLIR METERLiNK-enabled thermal imaging camera (see page 607). CAT IV 600V, CAT III 1000V safety rating. Each includes test leads and battery. 22UL79 includes calibration certificate.

Max AC/DC Amps	Max AC/DC Volts	Resistance (ohms)	Temp. Range	Wireless Range	Mfr. Model	STANDARD Item No.	NIST Item No.
1,000	1,000	40M	IR -20 to 518°F, Type K -4 to 1400°F	100 ft.	CM78	**22UL78**	**22UL79**

1GUH4

5LUT4

2HPF7

40GT06

40GT09

Clamp Meters

EXTECH INSTRUMENTS FLIR

1000A SERIES INDUSTRIAL

These tough meters have a built-in noncontact infrared thermometer and allow you to locate hot spots and overheating motors. All models have peak hold to capture inrush current and transients. Include Type K bead wire probe, belt holster, 9V battery, and soft carrying case. 4GGD9 and 4GGE1 also include professional test lead kit.

HIGH CURRENT—1500A AND 2000A

High-capacity models support a variety of measuring functions and feature true RMS sensing. Each includes test leads and 9V battery. 5LUT4 and 5LUT5 also include case.

HIGH CURRENT—3000A FLEX CLAMPS AND ADAPTERS

True RMS 3000A AC flex clamps are designed with a 0.3" (7.5mm) dia. coil to take measurements in tight or awkward spaces. Inrush current (100ms) for equipment startup spikes. Bright LED work lights provide easy navigation. Datalog up to 20,000 points for trend analysis. Bluetooth communication for remote viewing and data transfer to mobile devices via FLIR Tools Mobile App.

40GT09 and 40GT08 flex clamp adapters plug directly in any meter with standard banana plug inputs and 1 mV range to convert it into a 3000A clamp meter.

AC Response	Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Counts	Features*	Safety Rating	Mfr. Model	STANDARD Includes	STANDARD Item No.	NIST Includes	NIST Item No.
Extech													
1000A Series Industrial													
TRMS	1,000	1,000	1,000 V	1,000 V	40 megaohm	4,000	T, IR, F, C, P	CAT III 600V	EX830	Battery, Instructions, Soft Carrying Case, Test Leads, Type K Temperature Probe	**1GUH4**	Instructions, Soft Carrying Case, Test Leads	**1GUK2**
TRMS	1,000	1,000	1,000 V	1,000 V	40 megaohm	4,000	T, IR, F, C, P	CAT IV 600V	EX840	Belt Holster, Instructions, Professional Test Lead Kit, Test Leads	**4GGD9**	Belt Holster, Instructions, Professional Test Lead Kit, Test Leads	**4GGE1**
TRMS	1,000	—	600 V	600 V	40 megaohm	4,000	T, IR, F, C, P	CAT III 600V	EX820	Instructions, Soft Carrying Case, Test Leads	**1GUH3**	—	—
High Current 1500A and 2000A													
Average	200	200	—	—	—	2,000	—	CAT III 300V	MA120	Batteries, Instructions	**2HPG3**	—	—
TRMS	1,500	1,500	750 V	1,000 V	40 megaohm	4,000, 40,000	T, F, C, P, NCV	CAT IV 600V	MA1500	Battery, Instructions, Soft Carrying Case, Test Leads	**5LUT4**	Battery, Instructions, Soft Carrying Case, Test Leads	**5LUT5**
TRMS	2,000	400	1,000 V	1,000 V	40 megaohm	5,000	F, C		380926	Battery, Built In Stand, Instructions, Test Leads	**2HPF7**	Instructions, Test Leads	**6RGJ8**
FLIR													
High Current 3000A Flex Clamps and Adapters													
TRMS	3,000	—	—	—	—	3,000	—	CAT IV 600V	CM57	(2) AAA Batteries, 18 in Probe	**40GT06**	(2) AAA Batteries	**49VT99**
TRMS	3,000	—	—	—	—	3,000	—		CM55	(2) AAA Batteries, 10 in Probe	**40GT07**	(2) AAA Batteries	**49VT98**
TRMS	3,000	—	—	—	—	—	—	Cat IV 600	TA72	(2) AAA Batteries, 10 in Probe	**40GT09**	—	—
TRMS	3,000	—	—	—	—	—	—		TA74	(2) AAA Batteries, 18 in Probe	**40GT08**	—	—

** C = capacitance, F = frequency, IR = infrared temp., NCV = noncontact voltage, P = peak hold, T = Type K temp.*

Clamp Meters

Maintenance and troubleshooting testers for electrical, industrial, and HVAC applications include battery(ies). Select models have the following features: True RMS (TRMS) provides accurate readings of noisy, distorted or nonsinusodial waveforms. Autosensing (AS) technology enables the meter to recognize the input and automatically switch to the correct mode of operation. Low-pass filter (LPF) attenuates high frequencies to reduce noise for accurate measurement of variable frequency drive signals. DC microamp (M) measurement is for flame rod applications.

MINI CLAMP METERS

Compact size allows measurements in tight locations. Include test leads and case.

HIGH RESOLUTION MINI SERIES

Devices feature DC autozero and accuracy at low currents, and are designed to operate in tight spaces. 2HPF6 provides noncontact frequency measurement to 10 kHz through the clamp jaws. Each includes case; all except 2HPF6 include test lead.

POCKET-SIZE WITH AUTOSENSE

5.8" x 2.4" x 1.2" testers have a compact 0.8" jaw that accommodates conductors up to 300MCM and allows measurement in tight locations.

EXTECH INSTRUMENTS

OPEN JAW WITH AUTOSENSE

Feature an open-jaw design for quick measurements in tight locations. 40JL43 has input impedance that automatically decreases with the input voltage to provide low-impedance testing of ghost voltages.

COMPACT CLAMP METERS

Pocket-size meters loaded with multimeter features and built-in noncontact voltage (NCV) detectors to meet many applications. Jaws fit conductors up to 500MCM.

MULTIFUNCTION HVAC

5-in-1 meters feature dual Type K thermocouple inputs for superheat differential measurement. 2HPF8 and 6RGL7 add IR thermocouple with laser pointer and 2 temp. probes. Each includes test leads and case.

600 SERIES ELECTRICAL

Low impedance (LoZ) mode helps eliminate false readings caused by ghost voltages in these meters with true RMS AC or AC/DC. Include test leads; 40JK35 also includes bead wire probe.

40JL46

4FB73

40ZJ86

40JL43

453A46

2HPG1

AC Response	Max. AC Amps	Max. DC Amps	Max. AC Volts	Max. DC Volts	Max. Ohms	Counts	Features*	Safety Rating	Mfr. Model	STANDARD Item No.	NIST Item No.
Mini Clamp Meters											
TRMS	60	—	600 V	600 V	60 megaohm	6,000	F, C, LPF, NCV	CAT III 300V	MA61	**40JL46**	—
TRMS	60	60	600 V	600 V	60 megaohm	6,000	F, C, LPF, NCV	CAT III 300V	MA63	**40JL47**	—
High Resolution Mini Series											
Average	30	30	400 V	400 V	—	4,000	G	CAT III 300V	380942	**8EUV3**	—
Average	80	80	600 V	600 V	40 megaohm	4,000	F	CAT III 600V	380950	**8G782**	—
Average	200	200	400 V	400 V	400 megohm	4,000	F, G	CAT III 300V	380941	**4FB73**	**6RGK0**
TRMS	400	400	—	—	—	4,000	F, G	CAT III 300V	380947	**2HPF6**	—
Pocket Size with Autosense											
TRMS	300	—	—	—	—	6,000	LPF, NCV, SD	CAT III 600V	MA140	**40ZJ86**	—
Open Jaw with Autosense											
TRMS	200	—	1,000 V	1,000 V	10,000	9,999	AS, NCV	CAT IV 600V	MA260	**40JL43**	—
Compact Clamp Meter											
TRMS	400	—	600 V	600 V	40 megaohm	4,000	—	CAT III 600V	MA443	**404K05**	**404K06**
Average	400	—	600 V	600 V	40 megaohm	4,000	—	CAT III 600V	MA440	**453A46**	**453A47**
Multifunction HVAC											
TRMS	400	400	600 V	600 V	40 megaohm	4,000	T, F, C, IR, NCV, M, P	CAT III 600V	EX623	**2HPF8**	**6RGL7**
TRMS	400	400	600 V	600 V	40 megaohm	4,000	T, F, C, NCV, M, P	CAT III 600V	EX613	**2HPG1**	**6RGL5**
600 Series Electrical											
TRMS	600	—	750 V	1,000 V	60 megaohm	6,000	C, F, LoZ, LPF, M, NCV	CAT III 600V	EX650	**40JK34**	—
TRMS	600	600	750 V	1,000 V	60 megaohm	6,000	C, F, LoZ, LPF, M, NCV, T	CAT III 600V	EX655	**40JK35**	—

****AS = autosense, C = capacitance, F = frequency, G = analog bar graph, IR = infrared temp., LoZ = low impedence mode, LPF = low-pass filter, M = mlcroamps, NCV = noncontact voltage, P = peak hold, SD = smart data hold, T = Type K temp.; includes temperature probe(s).***

EXTECH INSTRUMENTS

Digital Multimeter Troubleshooting Kit

Essential diagostic, installation, and repair tools are combined in a handy carrying container to provide protection and organization for the meters and accessories.

Includes	Mfr. Model	Item No.
4000 Count Display, CAT IV-1000V Safety Rating, CAT IV-600V, Double Molded Housing, Drop Proof, DV25 Dual Range AC Voltage Detector (24 to 1000VAC/100 to 1000VAC) Plus Flashlight with Audible, Mfr. No. EX505 Industrial Grade, Rugged Multimeter with True RMS Functions, Set of Double Molded Professional Test Leads, Soft Carrying Case, TL808 (8) Piece Professional Test Lead Kit with CAT III-1000V Safety Rating, Type K Thermocouple Bead Probe and Type K to Banana Input Adaptor, Visual Indication, Waterproof	EX505-K	**4DKJ7**

4FFJ8

2ATU9

2ATB3

Clamp Meters

AMPROBE

CAT III 600V safety rating unless otherwise noted. Select models are VAR clamps, which measure volts, amps, and resistance (continuity). Each includes carrying case. All except 38RX02 and 2ATU8 include test leads, and all include batteries.

ANALOG

Instrument works in cold temperatures where digital clamp LCD screens tend to freeze, and measures amps and volts without needing batteries. Cat IV 600V safety rating.

400 AMPS ELECTRICAL

A 180° rotating head measures AC current and helps take other readings in tight places.

600 AMPS ELECTRICAL

2ATU9 has extra-thin jaws for frequency measurement and is overload protected.

3DNY9 and 3DNZ1 show voltage and current on dual displays for voltage drop tests.

800 AMPS ELECTRICAL

VAR clamps for electrical and HVAC applications include relative readings; 2AUZ9 features true RMS.

1000 AMPS INDUSTRIAL AND HIGH CURRENT

2ATU8 provides a wide range of measurements. 4FFK1 is designed for high-current industrial applications, supporting a broad range of measuring functions with true RMS sensing. Large backlit display. 4FFK1 has CAT IV 600V safety rating.

AC Amps	DC Amps	Max. AC Volts	Resist. (Ohms)	Jaw Cap.	Temp. Range	Temperature IR	Frequency Counter	Capacitance	Peak Hold	Mfr. Model	Item No.
Analog											
1,000	—	600 V	1,000	1.9 in (48 mm)	•	—	—	—	—	RS-1007 PRO	**4FFJ8**
300 Amps Electrical											
300	300	—	—	1.0 in (25 mm)	—		—	—	—	AMP-25	**38RX02**
400 Amps Electrical											
400	—	600 V	40 megohm	1.2 in (30 mm)	•	•	—	•	—	ACD-23SW	**6NZF3**
600 Amps Electrical											
600	—	600 V	40 megohm megaohm	1.0 in (25 mm)	•	—	•	•	—	ACD-10 PLUS	**2ATU9**
600	—	600 V	40 megohm	1.0 in (25 mm)	•	•	•	•	—	ACD-14 PLUS	**3DNY9**
600	—	600 V	40 megohm	1.3 in (33 mm)	•	•	•	•	—	ACD-14 TRMS-PLUS	**3DNZ1**
600	2,000 uA	600 V	6,000	1.1 in (28 mm)	•	•	•	•	•	ACD-14-PRO	**52JJ18**
800 Amps Electrical											
800	1,000	600 V	40 megohm	2.0 in (51 mm)	•	—	—	•	—	ACDC-100	**2AUZ8**
800	1,000	600 V	40 megohm	2.0 in (51 mm)	•	—	—	•	—	ACDC-100 TRMS	**2AUZ9**
1000 Amps Industrial											
1,000	—	600 V	40 megohm	1.8 in (46 mm)	•	—	—	—	—	ACD-6 PRO	**2ATU8**
1,000	1,000	750 V	66 megohm	2.0 in (51 mm)	•	—	•	•	•	ACDC-3400 IND	**4FFK1**
1,000	1,000	1,000 V	60,000	2.0 in (51 mm)	—	—	—	—	—	AMP-330	**34NK45**

Max. AC Voltage	Max. Input Current	Max. Output Current	Features	Mfr. Model	Item No.
3-Wire AC Line Separator					
120	15 A	15.0 A	10X for Increased Sensitivity of Low Current Measurements, 1X for Direct Readings to 15 Amperes, Voltage Measurement Ports	ELS2A	**2ATB3**

22XX22

52KA90

Clamp Meters

WESTWARD UEi TEST INSTRUMENTS

WESTWARD

Autoranging instruments feature audible continuity, diode test, data hold, and auto-off. LCD shows test results. 22XX24 provides true RMS AC response. ETL Listed for U.S. and Canada. IEC 61010 Compliant.

UEI TEST INSTRUMENTS

Meters have true RMS accuracy, backlit dual display, and noncontact voltage tester. Measure temperature, capacitance, and frequency/duty cycle. Noncontact voltage in tip.

Includes	Max. AC Volts	Max. AC Amps	Max. DC Volts	Max. DC Amps	Max. Ohms	AC Current Accuracy	Counts	Jaw Cap.	Safety Rating	Item No.
Clamp Meter										
Westward										
Batteries, Soft Carrying Case and Instructions, Temperature Probe, Test Leads	600 V	400	600 V	—	20 megaohm	±1.5% + 5 Digits	2,000	1.1 in (28 mm)	CAT II 600V, CAT III 300V	**22XX22**
Batteries, Soft Carrying Case and Instructions, Test Leads	600 V	400	600 V	400	40 megaohm	±2.5% + 5 Digits	4,000	1.1 in (28 mm)	CAT II 600V, CAT III 300V	**22XX23**
	600 V	600	600 V	—	20 megaohm	±1.5% + 5 Digits	2,000	1.1 in (28 mm)	CAT II 600V, CAT III 300V	**22XX26**
Batteries, Hard Case and Instructions, Test Leads	—	1,000	—	1,000	40 megaohm	±2.0% + 2 Digits	4,000	2.1 in (53 mm)	CAT II 600V, CAT III 300V	**22XX24**
	600 V	1,000	600 V	1,000	40 megaohm	±2.0% + 2 Digits	4,000	2.1 in (53 mm)	CAT II 600V, CAT III 300V	**22XX25**
UEI Test Instruments										
(2) Batteries, K-Type Temperature Probe, Pouch, Test Leads	750 V	400	400 V	400	40 megaohm	+/-1.2% + 3 Digits	4,000	1.2 in (30 mm)	CAT II 1000V, CAT III 600V	**55CH55**
Alligator Clips, Batteries, K-Type Thermocouple ATT29A, Pouch, Test Leads	750 V	600	600 V	2,000 uA	60 megaohm	±2.0% + 8 Digits	6,000	1.3 in (33 mm)	CAT IV 600V	**52KA90**
Digital Multimeter, Clamp On Kit										
Westward										
Battery, Digital Electrical Multimeter, Clamp On Ammeter, Test Leads, Magnetic Strap, Deluxe Carrying Case										**22XX28**
Battery, Temperature Probe, Magnetic Strap, Deluxe Carrying Case, Clamp On Ammeter, Test Leads, Digital Electrical Multimeter										**22XX29**

4NYX6

Clamp/Fork Meters

Milwaukee

Rugged, heavy-duty instruments feature true RMS measurement for greater accuracy. High-contrast, white-on-black, backlit display is easy to read. LED task light. Each includes test leads and AA batteries. 4NYX6 and 4NYX7 are CAT IV 600V. 4NYX6 features Lo-Z measurement to eliminate ghost voltage. 4NYX7 provides 600μA DC readings for flame rectification and has a dual banana thermocouple input for contact temperature measurement. 5MLK3 is CAT III 600V.

Amps (AC)	Voltage (AC/DC)	Jaw Cap.	Capacitance	Temp. Range	Non-Contact Voltage Detector	Data Hold	Calibration Certificate	Mfr. Model	Item No.
200	1,000 V	0.6 in (15 mm)	40 nF	—	Yes	Yes	No	2205-20	**4NYX6**
1	1,000 V	0.6 in (15 mm)	1,000 uF	-40° to 752°F	Yes	Yes	No	2206-20	**4NYX7**
600	600 V	1.4 in (36 mm)	40 nF	—	Yes	Yes	NIST	2237-20NST	**5MLK3**

19T239

60PT83

3EMK6

460J52

2NRW6

6YPR9

20LN62

Voltage/Current and Current Detectors

Personal safety tools detect live AC voltage without contact to wire. Each includes batteries.

Item	Voltage Range	Indication	Flashlight	On/Off Switch	Battery Type	Safety Rating	Mfr. Model	Item No.
Westward								
Voltage Detector	24 to 600V AC	Visual	No	No	AAA	CAT IV 600V	19T239	**19T239**
Voltage Detector	50 to 600V AC	Visual	No	No	AAA	CAT IV 600V	19T235	**19T235**
Voltage Detector	50 to 600V AC	Visual	No	No	(2) AAA	CAT IV 600V	19T236	**19T236**
Voltage Detector	50 to 1000V AC	—	Yes	No	AAA	CAT IV 1000V	19T240	**19T240**
Voltage Detector	90 to 1000V AC	Visual	No	No	AAA	CAT IV 1000V	19T237	**19T237**
Voltage Tester	90 to 1000V AC	Visual	No	No	AAA	CAT IV 1000V	19T238	**19T238**
FLIR								
Non-Contact Voltage Detector and Flashlight	90 to 1000V AC	Audible, Vibration, Visual	Yes	Yes	(2) AAA Alkaline	CAT IV 1000V	VP50-2	**60PT83**
Extech								
Dual Range AC Voltage Detector	100 to 1000V AC, 24 to 1000V AC	Audible, Visual	Yes	No	AAA	CAT IV 1000V	DV25	**3EMK6**
Voltage and Current Detector	12 to 600V AC, 200mA to 1000A	Audible, Visual	No	Yes	(4) LR44	CAT III 600V	DVA30	**1VXT3**
Voltage Detector	12 to 600V AC	Audible, Visual	No	Yes	LR44	CAT III 600V	DV30	**5HXC2**
Amprobe								
Non-Contact Voltage Detector	12 to 1000V AC	Audible, Visual	Yes	Yes	(2) AAA	CAT IV 1000V	NCV-1030	**460J52**
Non-Contact Voltage Detector	12 to 1000V AC	Audible, Visual	Yes	Yes	(2) AAA	CAT IV 1000V	NCV-1040	**460J53**
Voltage Detector	50 to 1000V AC	Visual	No	No	AAA	CAT III 1000V	VP-440	**12U589**
Greenlee								
Adjustable Voltage Detector	5 to 1000V AC	Audible, Visual	No	No	AAA	CAT IV 1000V	GT-16	**2NRW6**
Megger								
Voltage Detector	100 to 600V AC	Audible, Visual	Yes	Yes	AAA	CAT III 1000V	VF2	**6YPR9**
Milwaukee								
Voltage Detector	10 to 1000V AC	LED	Yes	Yes	AAA	CAT IV 1000V AC	2203-20	**20LN62**
Voltage Detector	50 to 1000V AC	Audible, Visual	No	Yes	AAA	CAT IV 1000V	2200-20	**6JHY1**
Voltage Detector	50 to 1000V AC	Audible, Visual	Yes	Yes	AAA	CAT IV 1000V	2202-20	**6JHY2**

Voltage, Voltage/Continuity and Multifunction Testers

Voltage Testers—Indicate the presence of voltage.

Voltage/Continuity Testers—Add continuity to voltage tester functionality.

2TKT6 tests 3-phase rotation.

5NLK5

3T887

28AF75

2TKT6

3T886

AC Voltage Range	DC Voltage Range	Includes	Display	Vibrates	Audible Continuity	Auto Ranging	Low Impedance	Flashlight	Battery Type	Safety Rating	Mfr. Model	Item No.
Voltage Tester												
Amprobe												
120 to 480	160/330/380/600	User Manual	(4) Neon Lamps	No	No	No	No	No	—	CAT III 600V	PY-1A	**5NLK5**
IDEAL												
100 to 600	100 to 600	Batteries, Manual, Standard Test Leads	(4) Neon Lamps	Yes	No	No	Yes	No	(4) LR44	CAT III 600V	61-065	**3T887**
0 to 600	0 to 600	(3) AAA Batteries, Industrial Grip Test leads, Magnetic Hanging Strap	Backlit LCD with Discrete LED	No	Yes	Yes	Yes	Yes	AAA	CAT IV 600V	61-557	**784FK2**
Westward												
12 to 600	12 to 690	Batteries, Operating Instructions, Test Lead Strap	Backlit LCD with Discrete LED	No	Yes	Yes	No	Yes	(2) AAA	—	28AF75	**28AF75**
Voltage and Continuity Tester												
Extech												
0 to 480	0 to 690	(2) AAA Batteries, Pouch Case, Protective Cap	LCD with Bargraph	No	Yes	Yes	Yes	Yes	(2) AAA	CAT IV 600V	VT30	**2TKT6**
IDEAL												
120 to 600	120/240/600	Manual	LED and Neon Lamps	Yes	No	No	Yes	No	(4) LR44	CAT III 600V	61-076	**3T886**

Electrical Test Kit

Includes digital multimeter, socket tester with GFCI, and noncontact voltage detector.

Brand	Mfr. Model	Item No.
Amprobe	PK-110	**38RX04**

Look for this icon for Fluke Connect wireless-enabled tools.
Learn more about Fluke Connect on page 610.

Voltage Testers

FLUKE.

Instruments are designed for use by electricians and professionals in industry, HVAC, and building maintenance. 2-yr. warranty.

Fluke T5-600
4KF19

Fluke T6-600
420J01

Fluke T+Pro
1CWL2

Fluke 9040
2NV55

V3000 FC
AC Voltage
Module
31FN21

FLUKE T5 ELECTRICAL TESTERS
Compact pocket testers make easy and accurate OpenJaw current measurement.

FLUKE T6 ELECTRICAL TESTERS
Measure voltage without test leads using integrated FieldSense technology. Measure voltage through the open fork, without test lead contact to live voltage, without opening covers, or removing wire nuts. Use on wires up to AWG 4/0 (120mm²) carrying as much as 200A.

FLUKE T+/T+PRO VOLTAGE AND CONTINUITY TESTERS
- GFCI trip test

Vibration, light, and beeper indicate presence of voltage without the hazards of a solenoid tester. Low impedance avoids ghost errors.

FLUKE 9040 PHASE ROTATION INDICATOR
- 3-phase indicator
- Clear LCD

Powered by unit under test—no batteries required.

FLUKE CONNECT VOLTAGE TESTERS
Designed to help you spend ⅓ the time taking 3-phase power readings, work safer, and communicate wirelessly with Fluke Connect app with these fully functional AC voltage meters.

VOLTAGE TESTER ACCESSORIES

T5-1000 Tester Kit
T5-1000 electrical tester 4KF17, 1AC-II VoltAlert 2KU25, and H5 Holster 4PD22.

T+PRO-1AC Electrical Tester and AC Voltage Detector Kit
T+PRO Voltage Tester 1CWL2 and 1AC-II VoltAlert 2KU25.

T5 Tester Accessory Starter Kit
TP220 SureGrip test probes with removable comfort grips 3MU87, AC285 SureGrip large-Jaw alligator clips 4FB12, and soft case.

Fluke T5 RLS Replacement Test Lead Set for T5-600 and T5-1000 13E627

H5 Holster for T3 and T5 Testers 4PD22

C520A Leather Tester Case for T5 Tester 5PR86

Max. AC Volts	Max. DC Volts	Safety Rating	Mfr. Model	Item No.
Fork Meters				
T5 Electrical Testers				
1,000 V	1,000 V	CAT III 1000V, CAT IV 600V	Fluke-T5-1000	**4KF17**
1,000 V	1,000 V	CAT III 1000V, CAT IV 600V	Fluke-T5-1000 NIST	**4KF16**
600 V	600 V	CAT III 600V	Fluke-T5-600	**4KF19**
600 V	600 V	CAT III 600V	Fluke-T5-600 NIST	**4KF18**
T6 Electrical Testers				
600 V	600 V	CAT III 600V	T6-600/WWG	**420J01**
1,000 V	1,000 V	CAT III 1000V	T6-1000/WWG	**420H99**

AC Voltage Range	DC Voltage Range	Phase Rotation	Includes	Mfr. Model	Item No.
Voltage Testers					
12 to 600	12 to 600	—	—	T+	**1CWL3**
10.2 to 600	10.2 to 600	Yes	Test Lead Wrap, TP2 Test Probes, User Manual	Fluke-T+Pro	**1CWL2**

Voltage Range	Frequency Range	Includes	Mfr. Model	Item No.
Phase Rotation Indicator				
10 to 700V AC	15 to 400 Hz	(3) Permanently Attached Test Leads And Probes, Alligator Clips, Instructions	Fluke-9040	**2NV55**

Description	Voltage Range	Includes	Mfr. Model	Item No.
Fluke Connect Voltage Modules				
AC Voltage Module	3mV to 1000V AC	Alligator Clips, Batteries, Magnet Strap, Quick Start Guide Only, Test Leads	FLK-V3000FC	**31FN21**
DC Voltage Module	3mV to 1000V AC	Alligator Clips, Batteries, Magnet Strap, Quick Start Guide Only, Test Leads	FLK-V3001FC	**31FN25**

Description	Mfr. Model	Item No.
Accessories and Kits		
T5 Electrical Test Kit	Fluke-T5-H5-1AC-Kit	**2PY98**
T+Pro-1AC Electrical Test Kit	Fluke-T+Pro-1AC Kit	**1CWL4**
T5 Replacement Modular Test Lead Kit	Fluke-T5-KIT	**4FB11**
T5 Test Leads	Fluke-T5-RLS	**13E627**
Plastic Holster	Fluke-H5	**4PD22**
Leather Holster	Fluke-C520A	**5PR86**
Proving Unit	PRV240	**40KJ09**
T6 Electrical Testers, DMMS and Clamps	PRV240FS	**420H98**

Fluke 2AC VoltAlert
6GAE8

Fluke 1AC-A1-II VoltAlert with Sound
2KU25

Fluke LVD2 Volt Light with Flashlight
1DGY1

Noncontact Voltage Testers

FLUKE.

- Test for energized circuits and defective grounds
- 2-yr. warranty

Pocket-size testers are easy to use: Tip glows red to verify voltage in the line. Each includes batteries.

Mfr. Model	Voltage Range	Audible Alert	Flashlight	On/Off Switch	Safety Rating	Item No.	Pkg. Qty.
Fluke-2AC	90 to 1000V AC	No	No	No	CAT IV 1000V	**6GAE8**	1
Fluke-2AC-5PK	90 to 1000V AC	No	No	No	CAT IV 1000V	**6GAE9**	5
Fluke-1AC-A1-II	90 to 1000V AC	Yes	No	Yes	CAT IV 1000V	**2KU25**	1
FLK-1AC-II-5PK	90 to 1000V AC	Yes	No	Yes	CAT IV 1000V	**2KU27**	5
Fluke-LVD2	90 to 600V AC	No	Yes	Yes	CAT IV 600V	**1DGY1**	1
FLK-1LAC-A-II	20 to 90V AC	Yes	No	Yes	CAT IV 1000V	**2KU26**	1

Receptacle and Circuit Testers

Check for correct wiring in 3-wire electrical receptacles on AC circuits. GFCI and AFCI (arc fault circuit interrupter) testers also verify proper circuit interrupt operation. All except 3D360 feature LED indicators.

WARNING: Not for use on circuits employing isolation transformers (such as cardiac care).

Item	Voltage	Load Current	Safety Rating	Brand	Item No.
Receptacle Tester	110 to 125V AC	—	—	Westward	**19T233**
Receptacle Tester with GFCI	110 to 125V AC	6 to 9 mA (GFCI)	—	Westward	**19T234**
Receptacle Tester with GFCI	125V AC	—	—	Hubbell Wiring Device-Kellems	**3D360**
Receptacle Tester with GFCI	120V AC	—	—	Extech	**40JZ67**
Receptacle Tester with GFCI	—	—	—	Brady	**15Y517**
AC Circuit Analyzer	95 to 140V AC	30 mA (RCD), 6 mA (GFCI)	CAT II 120V	Amprobe	**6UNU9**

19T233

3D360

40JZ67

6UNU9

HD ELECTRIC COMPANY
A Textron Company

High Voltage Storm Restoration and Maintenance Tools

Personal Voltage Detector—Detects and alerts operator when in the presence of electrical fields or energized electrical equipment.

Noncontact Voltage Detectors—Noncontact voltage detectors give indication with a typical detection distance of 10". A 15-min. charge provides a full day use.

Voltmeters—Compact dual-stick voltmeters and phasing set with capacitance test point mode and peak hold. 1% accuracy from reading.

Direct-Contact Voltage Detectors—Single-point instruments are designed to read voltage on a conductor up to 500kV line-to-ground.

Low-Voltage Detector—Used to detect stray voltage as low as 5 volts.

High Voltage Ammeter—Capability to take spot-load studies at transformers or any mid-span location, as well as phase balance studies on primary or secondary lines, all within accuracy of 1%. Takes True RMS AC current measurements up to 2000A, 25 to 500 Hz.

Hotsticks—Fiberglass sticks are designed and required to be used with voltmeters, noncontact and direct contact voltage detectors, and ammeters.

35ME39

35ME32

Description	Includes	Voltage Range	Power Req.	Mfr. Model	Item No.
Personal Voltage Detector					
V-Watch	Carrying Case Lanyard	2400V AC	9V Alkaline 1604A, IEC 6LR61	VW-20H	**35ME39**
Non Contact Voltage Detectors					
Proximity Voltage Detector	Carrying Holster and Carrying Case, Charge Cord, Transformer	120V AC to 500kV	Lithium Battery	PRX-500	**35ME32**
	Carrying Holster and Carrying Case, Charge Cord, Transformer	120V AC to 69kV	Lithium Battery	PRX-69D	**35ME33**
Voltmeters					
Universal Digital Voltmeter	Case and (2) Overhead Probes, Peak Hold	5V to 40kV	—	DVM-80UVM	**35ME27**
Voltmeter Proof Tester	9V Battery	—	9V Alkaline Battery	PT-5000B	**35ME34**
Direct Contact Voltage Detectors					
DVI Proof Tester	—	—	9V Alkaline Battery	PT-DVI	**35ME35**
Low Voltage Detector and Accessories					
Stray Voltage Detector	Holster with Integrated Tester	5 to 600V AC	—	LV-5/K01	**35ME29**
Extension Handle	—	—	—	LV-EH	**35ME30**
Ground Shield	—	—	—	LV-GS	**35ME31**
Voltage Probe	Bag	5 to 600V AC	—	VP-1/K01	**35ME38**
VP Proof Tester	—	—	Battery	PT-VP	**35ME40**
Voltage Ammeter					
High Voltage Digial Ammeter	Tool and bag	500kV, 25 to 500Hz	9V Alkaline Battery	HVA-2000	**35ME28**
Hotsticks					
4 Ft.				S-4H	**35ME36** *
6 Ft.				S-6H	**35ME37** *

Required with PRX, DVM (2 required), DVI and HVA Instruments

4JNV4

2CJN9

AMPROBE

High Energy Tic Tracer

- Verifies presence of 30V to 122kVAC (above 1500V requires Hot Stick 2CJN9, sold separately)
- Visual and audible voltage indication
- Dropproof to 6 ft.

Utility tool safely checks transmission lines, power distribution equipment, downed power lines, fuses, and load break connectors. Includes 9V battery.

Description	Item No.
High Voltage Detector	**4JNV4**
Adjustable Hot Stick	**2CJN9**

GFCI and AC Circuit Analyzers

Units measure loaded and unloaded AC line voltages; calculate and display % voltage drop and line impedance; and display peak line voltage and frequency. Offer selectable 12, 15, or 20A load. 5GCC8 includes test cord with 3-prong plug. CAT II 300V. 9TE53 is CAT III 300V.

5GCC8

Item	Voltage	Load Current	Brand	Item No.
GFCI Analyzer	90 to 240V AC	30 to 37 mA (EPD), 6 to 9 mA (GFCI)	Extech	**5GCC8**
AC Circuit Analyzer	85 to 265V AC	6 to 9 mA (GFCI), Greater than 30 mA (EPD)	Suretest	**9TE53**

Find Fluke meters on pages 536, 537, 537, 540, 541, 546, and 556 to 558.

C25 Large Soft Case
2A428

C35 Meter Case
2DPJ5

C50 Meter Case
2A431

C550 Tool Bag
5PR88

C781 Meter Case
4KD78

PACK 30
485A70

Fluke 80TK Thermocouple Module
2A433

Fluke 80T-150U Universal Temp. Probe
1T330

Fluke 80AK-A Thermocouple Adapter
2DPH5

Fluke 80K-40 High Voltage Probe
1T321

Fluke SV225 Stray Voltage Eliminator
2JYX4

Cases, Fuses, Probe Lights, and Stray Voltage Eliminators

FLUKE

Accessories, small test lead kits, and other items are specifically designed to work with or protect Fluke test instruments.

For Use With	Weather-Resistant Zipper	Wrist Strap	Belt Loop	Material	W	H	D	Mfr. Model	Item No.
Soft and Leather Cases									
Mfr. No. 110/111/112/12/16 Series	Yes	Yes	Yes	Vinyl	5 in	1 1/2 in	6 3/4 in	Fluke-C12A	**6T200**
61 Series, 77 IV, 922, 971, Mfr. No. 114/115/116/117	Yes	No	Yes	Vinyl	3 3/4 in	8 57/64 in	2 19/64 in	Fluke-C23	**3MU93**
Mfr. No. 20/70/80/170/180, 50/60, 1500, 320 Series	Yes	No	Yes	Polyester	5 in	8 1/2 in	2 1/2 in	Fluke-C25	**2A428**
Mfr. No. 20, 70, 11X, 170 Series	Yes	No	No	Polyester	5 1/2 in	8 1/2 in	2 1/2 in	C35	**2DPJ5**
40 Series Power Meters, i1000s, i3000s, Mfr. No. 1520	Yes	Yes	No	Vinyl	7 1/2 in	3 1/4 in	12 1/2 in	Fluke-C43	**3MU95**
Mfr. No. 16/110, 50 Series	Yes	Yes	Yes	Polyester	3 7/8 in	1 1/2 in	7 1/2 in	Fluke-C50	**2A431**
Fluke Accessories	Yes	No	No	Vinyl	1 in	7 3/4 in	4 in	Fluke-C75	**1TC07**
Scopemeter, Mfr. No. 120 Series	Yes	No	Yes	Polyester	5 1/2 in	2 1/2 in	10 in	Fluke-C125	**4KD76**
289 DMMs, Mfr. No. 287, Other Similar Format Test Tools	Yes	Yes	No	Polyester	7 5/16 in	9 in	2 5/8 in	C280	**2VFZ9**
All Instruments	Yes	No	No	Polyester	8 in	9 1/2 in	14 in	Fluke-C345	**3HCE8**
C33/RS, Mfr. No. C33/WWG, T5-600, T5-Kit	Yes	No	Yes	Polyester	4 7/8 in	2 in	10 7/8 in	Fluke-C33	**3MU94**
C510 ELECT, Mfr. No. C510/WWG	No	No	Yes	Leather	5 in	2 5/16 in	9 in	Fluke-C510	**5PR85**
Mfr. No. T3/T5	No	No	Yes	Leather	3 in	2 in	10 in	Fluke-C520A	**5PR86**
All Instruments	Yes	Yes	No	Cloth	8 1/2 in	12 in	16 in	Fluke-C550	**5PR88**
FLK 177/FA, FLK 187/FA, Mfr. No. C781/WWG	Yes	No	No	Nylon	1 in	5 5/8 in	10 3/8 in	Fluke-C781	**4KD78**
110 , 233, 3000 FC, 370, 62 MAX, 62 Max Plus Series, 902, 902 FC, Mfr. No. T6-600, PRV240, PRV240FS, T5-1000, T5-600, T6-1000	No	No	Yes	Polyester	6 1/4 in	11 13/16 in	2 7/64 in	C60	**485A82**
Hand Tools	No	No	No		7 in	2 in	9½ in	FLUKE-PACK30	**485A70**
Hard Cases									
180 Series, 720 Series, 780 Series, 80 Series, Mfr. No. 27	No	No	No	Copolymer	12 1/2 in	5 in	11 in	Fluke-CXT80	**3HCE9**
Mfr. No. 120, 124 Series Scopemeter, Handheld Digital Storage Oscilloscopes	No	No	No	Plastic	15 1/2 in	4 1/2 in	13 1/3 in	Fluke-C120	**3LV80**
110 Series, 1500 Series, 70, 710 Series, 787, Mfr. No. 922, Series 50	No	No	No	Copolymer	12 1/2 in	5 in	11 in	Fluke-CXT170	**3HCF1**
Mfr. No. 280 Series, 1621	No	No	No	Copolymer	12 1/2 in	5 in	11 in	Fluke-CXT280	**3HCF2**
Holsters									
787, Mfr. No. 80/710 Series	No	Yes	No	Plastic	4 1/4 in	2 in	8 in	Fluke-H80M	**4YE79**

Pkg. Qty.	Mfr. Model	Item No.
Multimeter Replacement Fuses		
5	Fluke-871173/630 mA	**1T337**
5	Fluke-871207/1A	**6T219**
5	Fluke-871178/2A	**1T338**
1	Fluke-892583/15A	**3T244**
1	Fluke-203403/11A	**3LW10**
1	Fluke-203411/440mA	**3LW11**

Description	Mfr. Model	Item No.
Modules, Probes, Testers and Pressure Vacuum Module		
Thermocouple Module	Fluke-80TK	**2A433**
Universal Temperature Probe	Fluke-80T-150U	**1T330**
Thermocouple Adapter	Fluke-80AK-A	**2DPH5**
High-Voltage Probe, 40 KV DC or 28 KV RMS	Fluke-80K-40	**1T321**
High-Voltage Probe, 6 KV DC or 4.24KV RMS	Fluke-80K-6	**1T320**

Description	Includes	Mfr. Model	Item No.
Probe Lights			
LED Probe Light and Modular Extenders	(2) 8 in Probe Extenders, Probe Light, (2) 3V Watch Batteries	Fluke-L210	**4CB69**
LED Probe Light Kit	Mfr. No. L200 Probe Light, Mfr. No. TL71 Premium DMM Test Lead Set and Mfr. No. C75 Case	Fluke-L211	**4CB70**
LED Probe Light	(2) 3V Watch Battery	Fluke-L200	**4CB68**
Stray Voltage Eliminators			
SureGrip Stray Voltage Adapter Test Lead Kit	Mfr. No. SV225 Stray Voltage Eliminator, Mfr. No. TL224 SureGrip Silicone Test Lead Set (Right to Straight), Mfr. No. TP220 SureGrip Test Probe Set, Mfr. No.C75 Accessory Case	Fluke-TL225	**1BE25**
Stray Voltage Eliminator	Instructions	Fluke-SV225	**2JYX4**

Test Sets

4WRE5

	Components Included with Kits Item Nos.											
	4WRD7	4WRE6	4WRE8	4WRD9	4WRD8	4WRE7	4WRE1	4WRE3	4WRE4	4WRE5	4WRD6	4WRE2
Alligator Clips (pair)												
Industrial	•	—	—	•	•	—	•	•	—	—	•	—
Large	—	•	—	—	—	—	•	—	—	—	•	•
medium	—	•	—	—	—	•	—	•	•	•	—	•
Modular Test Leads (pair)												
Banana to Point	—	•	—	—	—	•	—	•	•	•	—	—
Straight to Rt. Angle	—	—	•	•	•	•	•	•	•	•	•	•
Rt. Angle to Rt. Angle	•	—	—	—	—	—	—	—	—	—	—	—
Mini Test Lead to Pincer	—	—	—	—	—	•	—	•	•	—	—	—
Mini Test Lead to Hook	—	—	—	—	—	•	—	•	•	—	—	—
Modular Test probes												
Banana to Test Probe	•	—	•	•	•	•	•	—	•	•	•	•
Banana to Plunger Hook	—	—	—	—	—	—	•	—	—	•	•	—
Banana to Plunger Pincer	—	—	—	—	—	—	•	—	—	•	•	—
Extenders												
Slide on Tip	—	•	—	—	—	—	—	—	—	—	—	—
Modular Probe Extender	—	—	•	—	—	—	—	—	—	—	—	—
Spade Lugs												
Bare	—	—	—	—	—	•	—	•	—	—	—	—
with Banana Jack	—	—	—	—	—	—	—	—	•	—	—	—
Plastic Cover	—	—	—	—	—	—	—	—	—	•	—	•
IC Adapters												
Slide on	—	—	—	—	—	•	—	—	—	—	—	•
Short	—	—	—	—	—	•	—	•	—	—	—	•
Case												
Soft	—	•	—	•	—	•	•	•	•	•	•	•

Description	Safety Rating	Item No.
Industrial Electrial/HVAC Test Lead Set	CAT III 1000V	**4WRD7**
Basic, Low Energy Electronics Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE6**
DMM Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE8**
Deluxe Electrical Test Lead Set	Cat III 1000V	**4WRD9**
Multimeter/Ammeter Test Lead Set	CAT III 1000V	**4WRD8**
Deluxe Electronics Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE7**
Master Accessory Set	Cat III 1000V	**4WRE1**
Multiuse Electronics Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE3**
Electronics Master Set	CAT III 1000V, CAT II 300V	**4WRE4**
Industrial Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE5**
DMM Probe Set	CAT III 1000V	**4WRD6**
Heavy-Duty Electrical Test Lead Set	CAT III 1000V, CAT II 300V	**4WRE2**

Corded Probe and Clamp Test Leads

Connection	Length	Safety Rating	Max. Amps	Color Code	Item No.
Right Angle Shrouded Plug to Retractable Probe	3 ft 3 in	CAT IV 1000V	10	Black/Red	**4WPZ4**
Right Angle Shrouded Plug to Probe	4 ft	CAT III 1000V	10	Black/Red	**4WPZ8**
	4 ft	CAT IV 1000V	10	Black/Red	**4WRC9**
Right Angle Shrouded Plug to Large Alligator Clip	3 ft	CAT III 1000V, CAT IV 600V	10	Black	**4WPZ5**
	3 ft	CAT III 1000V, CAT IV 600V	10	Red	**4WPZ6**
Right Angle Shrouded Plug to Hook Clip Probe	3 ft 4 in	CAT II 300V	5	Black	**4WRD2**
	3 ft 4 in	CAT II 300V	5	Red	**4WRD3**
Right Angle Shrouded Plug to 5 Way Clip	3 ft 4 in	CAT II	8	Black/Red	**4WPZ9**
Precision Electronic Probe Set, Length 3 ft. 3 in, CAT III 1000V, Includes Insulated Test Probes with Sheathed Right Angle Banana Plug and (5) Pair of Replaceable Tips				Black/Red	**4WPZ7**

4WPZ4

4WRC5

Modular Test Lead Probes, Clips, and Extensions

4WRC8 has a 4mm dia. sharp point and 2mm tip.

4WRC5 and 4WRC7 have a 2mm dia. sharp point for hard-to-reach areas and recessed components.

4WRC6 is flat-bladed.

4WRA3 is insulation piercing, plunger style.

4WRA2 is designed to test semiconductor interconnects and high-density circuit boards.

4WRC1, 4WRA9, 4WRC2, and 4WRD4 are plunger style. 4WRC1 is a hook clip. 4WRA9 alligator clip tip grabs round fasteners. 4WRC2 is a pincer clip for testing areas in close contact. 4WRD4 is a bus bar clip.

Item	L	Opening Size	Instrument Safety Rating	Max. Amps	Color	Item No.
Multimeter Test Leads with 4mm Sheathed Banana Plugs						
Alligator Clip	2 ½ in	0.31 in	CAT III 1000V	10	Black, Red	**4WRA8**
Modular Large Alligator Clips	3 ⅞ in	0.78 in	CAT IV 600V, CAT III 1000V	10	Black, Red	**4WRA5**
Modular Large Alligator Clips	4 3/16 in	1.63 in	CAT IV 600V, CAT III 1000V	19	Black, Red	**4WRC3**
Modular Medium Alligator Clips	2 3/16 in	0.3 in	CAT II 300V	5	Black, Red	**4WRA4**
Modular Test Probe	5 13/16 in	—	CAT IV 600V, CAT III 1000V	10	Black, Red	**4WRC8**
Modular Test Probe	4 ⅝ in	—	CAT IV 600V, CAT III 1000V	10	Black, Red	**4WRC5**
Modular Test Probe	5 13/16 in	—	CAT IV 600V, CAT III 1000V	10	Black, Red	**4WRC7**
Modular Test Probe	5 13/16 in	—	CAT IV 600V, CAT III 1000V	10	Black, Red	**4WRC6**
Modular Test Probe	5 ½ in	0.18 in	CAT III 1000V	5	Red	**4WRA3**
Modular Test Probe	5 ½ in	—	CAT III 1000V	10	Black, Red	**4WRA2**
Modular Test Probe	5 ½ in	0.43 in	CAT III 1000V	10	Black, Red	**4WRC1**
Modular Test Probe	6 ⅛ in	0.24 in	CAT III 1000V	10	Black, Red	**4WRA9**
Modular Test Probe	6 5/16 in	0.14 in	CAT IV 600V, CAT III 1000V	5	Black, Red	**4WRC2**
Modular Test Probe	6 in	0.5 in	CAT III 600V	10	Black, Red	**4WRD4**
Modular Extension Test Leads	1 ft. 8 in	—	CAT III 1000V, CAT IV 600V	10	Black/Red	**4WRA6**
Modular Test Leads	3 ft. 3 in	—	CAT III 1000V	16	Black/Red	**4WRA7**
Modular Test Leads	4 ft.	—	CAT III 1000V	10	Black/Red	**4WRC4**
Modular Test Leads	4 ft.	—	CAT III 1000V	10	Black/Red	**4WRD5**

EXTECH INSTRUMENTS

FLUKE.

Carrying Cases

Designed and sized to store and protect multimeters and accessories.

4WTA1

Overall Height	Overall Width	Overall Depth	Features	Brand	Item No.
Soft Carrying Case, Nylon					
1 ⅜ in	5 ¾ in	7 in	Internal Pocket	—	**4WPH1**
2 ½ in	4 ⅜ in	8 ⅜ in	Internal Pocket	—	**4WPG6**
9 in	6 in	12 in	(3) Internal Pockets	—	**4WPJ6**
9 ½ in	7 in	2 in	—	Extech	**1M940**
Soft Carrying Case, Polyester					
8 ½ in	5 in	2 ½ in	Internal Pocket	Fluke	**2A428**
Soft Carrying Case, Vinyl					
1 in	5 in	7 in	Internal Pocket	—	**4WPG9**
2 ½ in	4 ⅜ in	8 ⅜ in	Internal Pocket	—	**4WPG5**
2 in	4 ⅜ in	8 ⅜ in	Internal Pocket	—	**4WPG7**
2 in	4 in	10 in	Internal Pocket	—	**4WPH6**
3 in	5 ¼ in	8 ½ in	Internal Pocket	—	**4WPG3**
3 ½ in	8 in	12 ⅞ in	Inner Front Pocket, Zipper	—	**4WPJ1**
3 in	7 in	9 ¼ in	(3) Internal Pockets	—	**4WPJ3**
3 ¼ in	7 ½ in	12 ½ in	(2) Pockets to Store Test Leads or Small Accessories, Durable Vinyl Exterior, Inner Front Pocket with Closure, Zipper	Fluke	**3MU95**
6 ¼ in	4 ½ in	1 in	—	Extech	**1H152**
7 ¾ in	1 ¼ in	3 ⅞ in	Internal Pocket	—	**4WPH4**
9 ½ in	7 in	3 in	(3) Internal Pockets	—	**4WPJ5**
Hard Carrying Case, HDPE					
7 ⅜ in	10 7/16 in	3 ¼ in	Diced foam, Light-weight, Secure, Impervious to All Solvents, Oils, Fuels and Acids	—	**4WTA1**
Hard Carrying Case, Polypropylene					
4 in	14 ¼ in	12 in	The Interior of The Case is Filled with Diced Foam Allowing The User to Cut and Configure The Foam As Needed	Fluke	**1BE31**

Find Fluke Digital Multimeters and Process Tools on pages 536, 537, and 597.

Fluke TLK225 SureGrip Master Accessory Set
4CB84

Fluke TLK287 Electronics Master Set
2JYX5

Fluke TLK289 Industrial Master Set
2JYX6

Fluke TL223 SureGrip Electrial Lead set
3EB22

Fluke TL75 Hard Point Test Leads
1T341

Fluke TL71 Premium Test Leads
4XL47

Fluke AC220 SureGrip Alligator Clips
3MU82

Fluke TL224 SureGrip Insulated Test Leads
3MU86

FLUKE

Test Leads, Test Probes, Test Lead Sets, and Clips

Convenient accessory sets expand testing capabilities.

Description	Instrument Safety Rating	Includes	Mfr. Model	Item No.
Clamp Test Leads				
5-Way Test Lead Set	CAT I 30V	1 pr. (red, black) flexible silicone-insulated leads	Fluke-TL26A	**1TC10**
Automotive Test Lead Set	CAT I 30V	1 pr. (red, black) flexible silicone-insulated leads	Fluke-TL28A	**1TC11**
Modular Test Lead Kits				
SureGrip Master Accessory Set	CAT III 1000V, CAT IV 600V	2 plunger-style alligator clips, 2 plunger-style hook clips, 2 plunger-style pincer clips, 2 alligator clips, 2 sharp test probes, 2 test leads, foldable pouch	Fluke-TLK-225	**4CB84**
Electronic Set	CAT II 300V	2 med. alligator clips, 2 probe-tip extenders, 2 test probes, 2 test clips with hook clips, 2 test clips with pincer-tip adapters, 2 test lead couplers, 2 bare-spade lugs, 2 test leads with stainless steel tips, foldable pouch	TL81A	**5XV77**
Electronics Master Set	CAT II 300V, CAT III 1000V	2 modular leads, 2 modular probes, 2 Minigrabber jack sets, 2 med. alligator clips, 2 spade lugs with banan jack set, 2 couplers, 2 Micrograbbers, 2 Micrograbber leads, foldable pouch	TLK287	**2JYX5**
Industrial Master Set	CAT III 1000V, CAT IV 600V	2 test leads, 2 alligator clips, 2 hook clips, 2 large alligator clips, 2 test probes, hanging kit, thermocouple temp. probe, soft case	TLK289	**2JYX6**
SureGrip Deluxe Lead Set	CAT III 1000V, CAT IV 600V	Right-angle test leads, 2 styles of alligator clips: plunger-style and large jaw, sharp test probes, zippered vinyl case	Fluke-TLK-220	**4CB83**
SureGrip Electrical Lead Set	CAT III 1000V, CAT IV 600V	63 in silicone-insulated test leads, test probe with flat blade, alligator clips with safety grip, spring-loaded jaws, wide 20mm opening	Fluke-TL223	**3EB22**
SureGrip High-Energy Lead Set	CAT III 1000V, CAT IV 600V	Modular insulated-tip test probes, modular probe extenders, modular test leads	Fluke-TL238	**4YE80**
Probe Test Leads (1 Pair)				
TwistGuard Test Leads	CAT II 1000V, CAT III 1000V, CAT IV 600V	Adjustable length probe tip with Wearguard to indicate wear	Fluke-TL175	**6YPT0**
Retractable Tip Test Probes, 5 in L, PR	CAT IV 600V, CAT III 1000V	Interchangeable probes for use with most Fluke test lead sets	Fluke-TP175	**6YPT1**
Hard Point Test Lead Set	CAT III 1000V, CAT IV 600V	1 pr. (black, red) comfort-grip probes, 48 in PVC insulated test leads with right-angle shrouded banana plugs	Fluke-TL75	**1T341**
Premium Test Lead Set	CAT III 1000V, CAT IV 600V	1 pr. (black, red) comfort-grip probes with silicone-insulated, right-angle test leads	Fluke-TL71	**4XL47**
RetractableTip Test Lead Set	CAT II 600V	1 pr. (black, red) test leads with sharp needle-point tips adjustable from 0mm to 76mm	Fluke-TL40	**1ND97**
Test Clips				
SureGrip Alligator Clips	CAT IV 600V, CAT III 1000V	1 pr. (red, black) small, insulated, nickel-plated jaws in plunger-style clips	Fluke-AC220	**3MU82**
SureGrip Hook Clips	CAT IV 600V, CAT III 1000V	1 pr. (red, black) nickel-plated jaws	Fluke-AC280	**3MU83**
SureGrip Alligator Clips 1.13 in Opening	CAT IV 600V, CAT III 1000V	1 pr. (red, black) large alligator clips with nickel-plated steel jaws	Fluke-AC285	**3MU85**
Heavy Duty Bus Bar Clip Set	CAT III 600V	1 pr. (black, red), bus bar jaw	Fluke-AC87	**4YV66**
Heavy Duty Insulation Piercing Clip	CAT IV 600V, CAT III 1000V	1 red clip with banana plug	Fluke-AC89	**1TC26**
Test Lead Extentions (1 Pair)				
SureGrip Test Lead Extension Set	CAT III 1000V, CAT IV 600V	1 pr. (red, black) silicone-insulated leads with straight connectors on both ends	Fluke-TL221	**3EB19**
SureGrip Silicone Insulated Test Leads	CAT III 1000V, CAT IV 600V	1 pr. (red, black) shrouded leads with right-angle on both ends	Fluke-TL222	**3EB20**
SureGrip Insulated Test Leads	CAT III 1000V, CAT IV 600V	1 pr. (red, black) DMM test leads with safety shrouded, standard dia. banana plugs	Fluke-TL224	**3MU86**
Heavy Duty Test Leads	CAT III 1000V	1 pr. (red, black) straight leads	Fluke-TL27	**5PR89**
Test Lead Kits				
Basic Electronic Lead Set	CAT III 300V	Two 1m test leads (10A), 2 insulated alligator clips (5A), 2 insulated probe-tip extenders (3A), zippered vinyl soft case	Fluke-TL80A	**5XV76**
Test Probes (1 Pair)				
Slim Reach 2mm Diameter Tip	CAT IV 600V, CAT III 1000V	1 pr. (red, black) slender probes	Fluke-TP2	**4PD27**
Slim Reach 4mm Diameter Tip	CAT IV 600V, CAT III 1000V	1 pr. (red, black) slender probes	Fluke-TP4	**4PD28**
SureGrip Industrial Test Probes	CAT IV 600V, CAT III 1000V	1 pr. (black, red) deep-reaching probes with banana plugs	Fluke-TP220	**3MU87**
Electronic Test Probes	CAT III 1000V	1 pr. (black, red) probes for high-density material with banana plugs	Fluke-TP80	**1TC20**
Test Probe Leads	CAT III 1000V, CAT IV 600V	(1) Red and (1) Black Lead	TL76	**4XKU5**
Test Probe Leads	CAT III 1000V, CAT IV 600V	(2) Test Probes and (5) Sets of Replaceable Tips	TL910	**4XKW5**
Automotive Test Lead Kit	—	Mfr. No. TP81 Insulation Piercing Clip Set, Mfr. No. TL224 Suregrip Silicone Test Lead Set, Mfr. No. TP220 Suregrip Test Probe Set, Mfr. No. AC220 Suregrip Alligator Clip Set, Mfr. No. AC285 Suregrip Large Jaw Alligator Clip Set, Soft Case	TLK281	**4XKU7**

AMPROBE

Navigator Series Power Quality Clamps

ACDC-54NAV
6NZJ0

- THD (total harmonics distortion): 0.1 to 100%
- Individual harmonics: 1 to 25th
- Power (W)
- Power factor: -1.00 to 1.00

A full range of diagnostic capabilities including phase sequence, power and power factor, total harmonics distortion and individual harmonics, inrush current, low-pass filter, and noncontact voltage detection.

Max. AC Amps	Max. DC Amps	Max. AC Volts	Voltage Accuracy	Temp. Range	Jaw Opening	Safety Rating	Mfr. Model	Item No.
600	—	1,000	AC +/-1.0% Rdg +5 Digits, DC +/-0.7% Rdg +2 Digits	—	1.77 in	CAT III 1000V, CAT IV 600V	ACD-50NAV	**6NZH6**
600	600	1,000		—	1.77 in		ACDC-52NAV	**6NZH8**
1,000	1,000	1,000		-50° to 1832°F (-50° to 1000°C)	1.77 in		ACDC-54NAV	**6NZJ0**

FLUKE

Power Quality Troubleshooters

Additional accessories are available; call 1-800-GRAINGER (472-4643).

- Auto-trend automatically records every measurement without setup
- System monitoring: Up to 10 power quality parameters on 1 screen
- Inrush mode for troubleshooting nuisance circuit breaker tripping

Troubleshoot in real time: Cursors and zoom tools help analyze trends while background recording continues. Energy loss calculator quantifies classic active and reactive power measurements, unbalance, and harmonics to pinpoint the true dollar cost of system energy losses. Rugged, reliable tools test power quality for troubleshooting, preventive maintenance, and analysis in industrial applications and utilities. Color LCD display. CAT IV 600V safety rating for use at the service entrance.

Voltage Channels	Current Channels	Voltage Accuracy	Current Accuracy	Includes	Mfr. Model	Item No.
5	4	±0.1%	±0.5%	(4) 24 in L Flexible Current Probes, 8 GB SD Card, BP290 Single Capacity Li-Ion Battery, 28 Wh (8 hr or More), C1740 Soft Case, Operator Manuals In PDF Format, Power Adapter, International Plug Adapter Set, PowerLog on CD, TLS430 Test Lead and Alligator Clip Set, USB Cable A - Mini B, WC100 Color Coding Clips and Regional Decals, i430flex-TF-II	FLK-438-II/WWG	**52KA91**

FLUKE

Power Quality Recorder and Loggers

Additional accessories are available; call 1-800-GRAINGER (472-4643).

Rugged, reliable tools test power quality for preventive maintenance and long-term recording and analysis in industrial applications and utilities.

VOLTAGE RECORDER

Fluke VR1710 Voltage Event Recorder

- Records all values continuously with no gaps
- CAT II 300V

Easily pinpoints the root cause of 1-phase voltage problems. Plugs directly into main power socket to capture data for fast, easy recording of voltage trends, dropouts, and power quality. Saves testing time by simultaneously recording events and voltage. Includes USB interface cable and software.

3-PHASE ENERGY LOGGERS

NIST Certified.

Fluke 1732/B and 1734/B

Easy-to-use, 3-phase electrical energy loggers help find the sources of electrical energy waste. Loggers discover when and where energy in your facility is being consumed—from service entrances to individual circuits. Connect with other Fluke Connect devices to simultaneously log up to 2 other measurement parameters (log virtually any parameter available on a Fluke Connect wireless digital multimeter or module).

Fluke 1736

This power logger can employ the Fluke Connect Mobile App and desktop software to help you respond in real time to critical power quality and energy consumption data. The instrument automatically captures and logs more than 500 power quality parameters for energy studies and power quality logging, to help you optimize system reliability and cost savings. Comes with voltage test leads, 4 alligator clips, four 1500A flexible current probes, WiFi adapter, 3 line cords, color coding set, Fluke Energy Analyze Plus software on a USB flash drive, and soft case.

Fluke 1732/B
53YP71

Fluke VR1710
2RUJ8

Display	Voltage Channels	Current Channels	Voltage Accuracy	Current Accuracy	RMS* Voltage	Mfr. Model	Item No.
Voltage Recorder							
Dual LED	2	—	±0.5%	—	+/-0.5% of Range (300V)	Fluke-VR1710	**2RUJ8**
3-Phase Energy Loggers							
Color LCD Touch Screen	4	4	±0.2%	±1%	—	Fluke-1736/EUS/WWG	**45LN71**
Color LCD Touch Screen	4	4	±0.2%	±1%	—	Fluke-1738/EUS/WWG	**45LN73**
Color LCD Touch Screen	4	5	±0.2%	±1%	—	Fluke 1732/B	**53YP71**
Color LCD Touch Screen	4	3	±0.2%	±1%	—	Fluke 1734/B	**53YP73**
Color LCD Touch Screen	4	5	±0.2%	±0.01%	—	Fluke-1734/EUS	**53YP72**

** Does not include additional error from plug-in current sensors.*

3-Phase Power Quality Recorders

EXTECH INSTRUMENTS DRANETZ

4DKJ9

32ZN35

- **Backlit LCD shows 35 parameters**

Work with 1- and 3-phase systems (wye and delta). Programmable sampling rates. Log voltage, current, sags or surges, harmonics, energy, power factor, power, and frequency.

Note: Additional accessories are available on Grainger.com; search for "power quality recorders accessories."

PQ3400 Series—Provide true RMS power measurements on displays that can be read in direct sunlight. Adjustable CT and PT ratios. Log up to 30,000 readings in Microsoft Excel format on a removable SD memory card for easy data transfer. Each includes 4 voltage leads with alligator clips, universal 100 to 240VAC adapter, case, and AA batteries. Cat III 600V.

- **Kit current capability up to 3000A, probe dependent (clamp probes sold separately)**
- **2 GB SD memory card**

382100 Series—Provides simultaneous display of true RMS data. Adjustable CT and PT ratios. Includes three 1200A current clamps, 4 voltage leads with alligator clips, AC adapter, AA batteries, and case. CAT III 600V.

- **Optically isolated RS-232 interface; USB adapter**

PQ3350 Series—Provide clamp-on true RMS power measurements with simultaneous display. Adjustable CT and VT ratios. Measure 1- and 3-phase/3-wire or 3-phase/4-wire systems with datalogs (52,428 1-phase readings, 17,476 3-phase). Each includes 3 flexible clamp probes (1200A, 12" PQ3350-1; 3000A, 24" PQ3350-3), 4 voltage leads with alligator clips and retractable plunger clips, USB cable, software, AC adapter, case, and AA batteries. CAT III 600V.

- **Graphic phase diagram with 3-phase system parameters**
- **Peak capture**
- **Optically isolated USB interface**

Power Quality Recorders—The Dranetz HDPQ merges state-of-the-art power monitoring capabilities with excellent communication capabilities to provide users with an exceptional monitoring experience. Each instrument has a built-in 7" color widescreen LCD user interface for monitoring setup and data review. By putting operator safety first, the Dranetz HDPQ also enables users to review data and change settings remotely from virtually any Smartphone or Tablet mobile device, along with traditional PC and Mac laptops and desktops. Just hook up the instrument, close the cabinet doors to the "safe" the environment, and use either a free third party VNC App or the Dranetz HDPQ Apple or Android App.

Kit Current Capability	Current Accuracy	Max. AC Amps	Calibration Frequency	Max. AC Voltage	Voltage Accuracy	Storage	Harmonic Capture Range	Mfr. Model	Item No.
Extech									
Power Analyzer/Datalogger									
—	±0.5% +5 Digits	3,000 A	60 Hz	600	±0.5%	30,000 Readings	—	PQ3450	**15E576**
1,200A	±0.5% +30 Digits	1,200 A	45 to 65 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	—	382100	**4DKJ9**
Power and Harmonics Analyzer									
1,200A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1	**5WYU2**
1,200A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-1-NIST	**5WYU3** †
3,000A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3	**5WYU4**
3,000A	±0.5% +30 Digits	1,200 A	60 Hz	600	±0.5% +30 Digits	52,428/17,476 Readings	99th	PQ3350-3-NIST	**5WYU5** †
Dranetz									
Power Quality Analyzer Kit									
1 to 10A	±0.1%	10 A	—	1,000	±0.5%	4 GB	127/63	HDPQ-P-VA10PKG	**32HX93**
3 to 3,000A	±0.1%	3,000 A	—	1,000	±0.5%	4 GB	127/63	HDPQ-P-VAFLEX3KPKG	**32HX96**
—	±0.1%	—	—	1,000	±0.1%	4 GB	127/63	HDPQ-P-XA4PKG	**32HX99**
1 to 10A	±0.1%	10 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-XA10PKG	**32ZN32**
3 to 3,000A	±0.1%	3,000 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-XAFLEX3KPKG	**32ZN35**
1 to 10A	±0.1%	10 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-GA10PKG	**32ZN24**
3 to 3,000A	±0.1%	3,000 A	45 to 65 Hz	1,000	±0.1%	4 GB	127/63	HDPQ-P-GAFLEX3KPKG	**32ZN27**

† NIST Certified.

1-Phase Loggers and Recorders

AEMC INSTRUMENTS EXTECH INSTRUMENTS

2KGY1

5LUT6

AEMC CL601—Self-contained, data logging, true RMS AC clamp-on current logger offers simple 1-button operation with no exposed connections. 64 samples per cycle. Overload indication. Includes DataView software, USB cable, and batteries.

- **Jaw opening: 1.7"**
- **5 LED indicators**

AEMC L261—Provides continuous voltage recording for up to 8 wk. and real-time wave form viewing when connected to a PC. Sampling rate is programmable from ⅛ sec. to 1 in 24 hr. Has true RMS and DC voltage logging. Includes test leads, DataView software, interface cable, and batteries.

Extech DL160—Can simultaneously measure 2 AC voltage inputs, 2 AC current inputs, or 1 each of AC voltage and AC current. Programmable sample rate from 1 sec. to 24 hr. Readings can be downloaded to a PC for analysis. Includes 2 current and 2 voltage sensor modules, 2 test leads, 2 alligator clips, software, USB cable, universal AC adapter, and batteries.

Extech DL150—Has programmable sample rate from 1 sec. to 24 hr., and true RMS readings to 600V or 200A. Data can be downloaded to a PC for analysis with included software. Includes current clamp, test leads, USB cable, universal AC adapter, and battery.

Voltage Range	Current Range	Voltage Accuracy	Min. Transient Duration	Storage	Interface	Power Source	Safety Rating	Mfr. Model	Item No.
AEMC									
0 to 600 AC/DC	—	±0.5%	0.259 uS	240,000 Readings	USB	(2) AA Batteries	CAT III 600V, CAT IV 300V	L261	**4PKE9**
—	0 to 600 A AC	—	—	240,000 Readings	USB	(2) AA Batteries	CAT III 600V, CAT IV 300V	CL601	**2KGY1**
Extech									
6 to 600V AC	10 to 200A AC	±1.5%	—	256,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL160	**5LUT7**
10 to 600V AC	10 to 200A AC	±1.5%	—	100,000 Readings	USB	Lithium Battery or 120 V	CAT III 600V	DL150	**5LUT6**

Navigator Series Power Quality Clamps

AMPROBE

ACDC-54NAV
6NZJ0

- **THD (total harmonics distortion): 0.1 to 100%**
- **Individual harmonics: 1 to 25th**
- **Power (W)**
- **Power factor: -1.00 to 1.00**

A full range of diagnostic capabilities including phase sequence, power and power factor, total harmonics distortion and individual harmonics, inrush current, low-pass filter, and noncontact voltage detection.

Max. AC Amps	Max. DC Amps	Max. AC Volts	Voltage Accuracy	Temp. Range	Jaw Opening	Safety Rating	Mfr. Model	Item No.
600	—	1,000	AC +/-1.0% Rdg +5 Digits, DC +/-0.7% Rdg +2 Digits	—	1.77 in	CAT III 1000V, CAT IV 600V	ACD-50NAV	**6NZH6**
600	600	1,000		—	1.77 in		ACDC-52NAV	**6NZH8**
1,000	1,000	1,000		-50° to 1832°F (-50° to 1000°C)	1.77 in		ACDC-54NAV	**6NZJ0**

AEMC INSTRUMENTS · AMPROBE · SEAWARD GROUP USA · EXTECH INSTRUMENTS · Megger

Milliohm Meters and Micro-Ohm Meters

Measure resistance of motor coils, circuit breaker contacts, transformers, and printed circuit board layouts. Test leads have Kelvin clip connectors.

AEMC—5GTJ1 has a polarity reversal switch for bidirectional testing and features overload and input fuse protection. Stores up to 99 test results. DataView software included.

Seaward Cropico—4-terminal measurement with automatic or manual current range selection and open circuit lead warning LED. 39N142 measures temp. from -50° to 800°C, with automatic temperature compensation.

Extech 1XU20—High-resolution instrument provides 7 resistance ranges, with automatic zero and built-in comparator for Hi/Lo/Go resistance testing or selection.

Extech 4PC52 and 5ZR91—Precision testers feature manual zero display adjust and over-range indication.

Extech 1XU18—Overtemperature/overvoltage protection, plus invalid test indicators and auto-hold.

Megger 4WXR6—Power limited ranges, high power outputs, and 10A duty cycle ranges, with high noise immunity and up to 600V protection between terminals.

Megger 1APD9 and 1APE1—Low-resistance testers average forward and reverse readings and provide manual current selection or automatic testing of contact resistance and bonds. 1APE1 features selectable high/low test limits and stores up to 700 time-stamped tests to download via RS-232 interface.

6NZH3

39N141

1XU18

4PC52

4WXR6

1APE1

Resistance Range	Resolution	Accuracy	Output Current	Display	Power Source	Safety Rating	NIST	Mfr. Model	Item No.
AEMC									
4 miliohm to 400 ohm	5 Milli Ohm to 400 Ohm	+/-0.25%	10mA to 10A	Backlit Dual Line LCD	NiMH Battery	CAT III 50V	No	6240	**5GTJ1**
Amprobe									
0 to 2000 ohm	100u Ohms to 1 Ohms	+/-0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	MO-100	**6NZH3**
Cropico									
40 miliohm to 4000 ohm	10 Micro Ohm to 1 Ohm	+/-0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4000	**39N141**
40 miliohm to 4000 ohm	10 micro Ohm to 1 Ohm	+/-0.05%	100uA to 100mA	LCD	Battery	—	Yes	DO4001	**39N142**
4 miliohm to 400 ohm	1 Micor Ohm to 100 Milli Ohm	+/-0.05%	1mA to 1A	LCD	Battery	—	Yes	DO4002	**39N143**
Extech									
20 miliohm to 20 kilohm	0.01m Ohms to 0.01K Ohms	+/-0.2%	10uA to 1A	LED	120V AC 60Hz	—	No	380560	**1XU20**
200 miliohm to 2000 ohm	0.1 Ohms to 1 Ohms	+/-0.5%	1mA to 100mA	LCD	(8) AA Batteries	—	No	380580	**1XU18**
200 miliohm to 2000 ohm	100u Ohms to 1 Ohms	+/-0.75%	1mA to 100mA	LCD	120 V AC 60 Hz	—	No	380460	**4PC52**
200 miliohm to 2000 ohm	100u Ohms to 1 Ohms	+/-0.75%	1mA to 100mA	LCD	120 V AC 60 Hz	—	Yes	380460-NIST	**5ZR91**
Megger									
0 to 2500 ohm	0.1u Ohms	+/-0.2%	0.1mA to 10A	Backlit LCD	NiMH Battery or Line	CAT III 300 V	No	DLRO10HD	**4WXR6**
1.9999 miliohm to 1999.9 ohm	0.1u Ohms to 100m Ohms	+/-0.2%	100uA to 10A	LED	NiMH Battery	CAT III 600V	No	DLRO-10	**1APD9**
1.9999 miliohm to 1999.9 ohm	0.1u Ohms to 100m Ohms	+/-0.2%	100uA to 10A	Backlit LCD	NiMH Battery	CAT III 600V	No	DLRO-10X	**1APE1**

AMPROBE · EXTECH INSTRUMENTS · Megger

1kVDC Digital Megohmmeters

Each includes test leads and batteries.

Amprobe 1WXG3—Programmable timer for dielectric absorption ratio test plus analog bar graph, internal data logging, and 2.5 times/sec. sampling rate.

Extech 1YB54—Stores up to 9 readings. Live circuit display warning and beeper. Automatic discharge of capacitive voltage charges.

Extech 1YB52—DC/AC voltage testing. Features continuity buzzer, low resistance function, data hold and lock on.

Megger 2MY34—Combines digital measurement with an analog arc for installation testing, preventive maintenance, and commissioning. Continuity buzzer.

Megger 2MY17—IP54 weather-resistant, with default voltmeter function, continuity buzzer, and live circuit protection.

1WXG3

1YB52

2MY17

Output Test Voltage	Insulation Resistance Range	Live Circuit Detection	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
Amprobe										
250/500/1000V DC	4/40/400/4000 megohm	0 to 600V AC/V DC	0 to 4000 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V	AMB-45	**1WXG3**
Extech										
250/500/1000V DC	0.001M to 10 gigohm	1 to 999V AC/V DC	0.01 to 1k ohm	Digital LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380363	**1YB54**
250/500/1000V DC	1000 megohm, 200 megohm, 2000 megohm	750V AC/1000V DC	200 kilohm, 200 ohm	LCD	Yes	No	(6) AA Batteries	CAT III 1000V	380260	**1YB52**
Megger										
250/500/1000V DC	10K to 1000 megohm	0 to 600V AC/V DC	0 to 100 ohm	Digital LCD	Yes	Yes	(6) AA Batteries	CAT III 600V	MIT230	**2MY34**
250/500/1000V DC	10K to 1000 megohm	0 to 600V AC/V DC	0 to 99.9 ohm	Digital LCD	Yes	Yes	(8) AA Batteries	CAT III 600V, CAT IV 300V	MIT310	**2MY17**

Megger

Digital Megohmmeters with Built-In Multimeter

Each includes test leads, alligator clips, and batteries.

5URG2—DC/AC voltage testing. Has short circuit current protection and high voltage warning, polarization index (PI), dielectric absorption radio (DAR), comparison function, data logging, sleep mode, and timer. USB compatible.

Megger 49AG72 and 49AG74—DC/AC true RMS voltage testing with stabilized test voltage for fast, accurate measurements. Feature high insulation range and digital/analog arc display. 49AG74 has PI and DAR tests, plus variable test voltage. Stores more than 1000 test results.

5URG2

Output Test Voltage	Insulation Resistance Range	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
Megger									
50/100/250/500/1000V DC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT420/2	**49AG74**
250/500/1000V DC	0 to 200 gigohm	0.1 to 999.9 ohm	Backlit LCD	Yes	Yes	(6) AA Batteries	CAT IV 600V	MIT400/2	**49AG72**
Approved Vendor									
100/250/500/1000V DC	0.1M to 10 gigohm	0.1 to 999.9 ohm	Backlit LCD with Bar Graph	Yes	Yes	1.5V Battery	CAT III 600V	—	**5URG2**

21YE32

40D468

36MG30

5k/10kVDC Output Megohmmeters

EXTECH INSTRUMENTS · Megger

Extech—High-contrast OLED display with PI and DAR measurement. EnerSave limits test duration to save energy. Built-in heavy-duty carrying case with cover. Includes test leads.

Megger MIT 400 Series—Insulation testing, capacitance measurement, TRMS and DC voltage measurement, PI, and DAR. Analog arc and dual-digital display. Timer function, pass/fail limit alarms, test button, and auto power down. Silicone lead set with clips. 49AG75 has Bluetooth wireless data transfer and storage.

Megger 40D467—Automatically calculates PI and DAR. High noise immunity with specified guard terminal. 1000V protection between all terminals. Separate AC/DC voltage range with Hz. Locking/touchproof test leads and tough dual case.

Megger 40D468 and 40D469—Automatically calculate PI, DAR, DD, and stepped voltage (SV). With 1000V protection and high noise immunity with specified guard terminal. Store date/time/temperature-stamped results with software. Separate AC/DC voltage range with Hz. Locking/touchproof test leads, line supply, and dual case.

Megger 36MG30—Automatically performs PI, DAR tests. Separate AC/DC voltage range with Hz. Includes locking/touchproof test leads.

Megger 30KA05—Performs IR, timed IR, PI, DAR, DD, SV, and ramp test, with dedicated voltmeter function, high short circuit current, and high noise immunity. Stores results and data log for onscreen recall or transfer to PC. Double-insulated test leads. IP65 dust- and moisture-resistant dual case is fire-retardant.

Output Test Voltage	Insulation Resistance Range	Capacitance Range	Live Circuit Detection	Data Logging	Auto Ranging	Auto Power Off	Display	Power Source	Safety Rating	Mfr. Model	Item No.
Extech											
500 to 10,000V DC	800 killohm to 500 gigohm	—	Yes	No	No	Yes	LCD	(8) C Batteries	CAT III 300V	MG500	**21YE32**
Megger											
50/100/250/500/1000V DC	0 to 200 gigohm	—	Yes	No	Yes	Yes	Backlit LCD	(6) AA Batteries	CAT IV 600V	MIT410/2	**49AG73**
50/100/250/500/1000V DC	0 to 200 gigohm	0.1 nF to 10 uF	Yes	1000 Data Points	Yes	Yes	Backlit LCD	(6) AA Batteries	CAT IV 600V	MIT430/2	**49AG75**
50 to 5000V DC	10 teraohm	10 to 25 uF	Yes	No	Yes	Yes	LCD	Line or Battery	IEC61326-1 CATIV 600V	MIT515	**40D467**
50 to 5000V DC	10 teraohm	10 to 25 uF	Yes	Yes	Yes	Yes	LCD	Line or Battery	IEC61326-1 CAT IV 600V	MIT525	**40D468**
50 to 10,000V DC	20 teraohm	10 to 25 uF	Yes	Yes	Yes	Yes	LCD	Line or Battery	IEC61326-1 CAT IV 600V	MIT1025	**40D469**
250/500/1000/2500/5000V DC	100k ohm to 1T ohm	—	Yes	No	Yes	Yes	Digital/Analog LCD	(8) AA Batteries	CAT III 600V	BM5200	**36MG30**
1000/15,000V DC	30T ohm	10 nF to 50 uF	Yes	Yes	Yes	Yes	Digital/Analog Backlit LCD	Line or Battery	CAT IV 1000V, IEC 61010-1	MIT1525	**30KA05**

6YPR4

9XJ79

3T841

4CWN9

3T105

Analog Megohmmeters

AEMC INSTRUMENTS · EXTECH INSTRUMENTS · Megger · Simpson · Supplier Diversity · Supco

AEMC—Test voltages up to 1000V, 5000MΩ. Brushless alternator with solid-state rectifier, automatic discharge, folding crank, guard and ground terminal. Steady test voltage output across entire range. Designed for harsh environments; case seals out rain, water, and dust.

Extech—Fuse-protected meter with 3 test voltages, automatic discharge circuit, lock On, 1.3mA short circuit current, and continuity and resistance testing. Includes test leads with alligator clips, carrying case, and batteries.

Megger—Feature automatic discharge and guard terminal. 3T841 is lightweight—only 2.25 lb.—with an impact-resistant housing. Safety check, AC voltage range. Use 3T843 for high-resistance insulation testing.

Simpson Electric—High-voltage (to 2000V) insulation tester features 8 test voltages, automatic discharge, AC/DC voltmeter, LED indicators, and lock On testing. Complete with test probes, permanently attached cables, 2 alligator clips, plug-in battery module, batteries, and carrying case.

Supco—Includes test leads with alligator clips and carrying case. Requires 2 C batteries (not included).

Description	Live Circuit Detection	Insulation Resistance Range	Display	Power Source	Auto Ranging	Safety Rating	Mfr. Model	Item No.
AEMC								
Hand Cranked Megohmmeter	0 to 600V AC/V DC	1 to 5000 megohm	Analog	Crank	Yes	CAT II 600V, CAT III 300V	6503	**6YPR4**
Extech								
Battery Operated Megohmmeter	0 to 600V AC	100/200/400 megohm	Analog	(6) AA Batteries	No	CAT III 1000V	380320	**9XJ79**
Megger								
Hand Cranked Megohmmeter	0 to 600V AC/V DC	2000 megohm	Analog	—	No	—	MJ159	**3T841**
Hand Cranked Megohmmeter	0 to 600V AC/V DC	2000/5000/10,000/20,000 megohm	Analog	—	No	—	210170	**3T843**
Simpson Electric								
Battery Operated Megohmmeter	0 to 2000V AC/V DC	10K to 1 teraohm	Analog	(6) D Batteries	No	—	12505	**4CWN9**
Supco								
Line Powered Megohmmeter	—	20 to 1000 megohm	LED	—	No	—	M500	**3T105**

Compact Digital Insulation Tester

EXTECH INSTRUMENTS

Troubleshooting tester has a wide measurement range (up to 1000V) and insulation resistance. Offers polarization index (PI), dielectric absorption ratio (DAR), 30V to 600VAC voltage, 10MΩ internal resistance test, low resistance (with zero function), and audible continuity. High voltage and overload indicators. Auto-discharge and voltage output warning functions. Backlit 2000-count dual display. 6" x 4" x 2.8", 1½-lb. housing. Includes test leads, alligator clips, batteries, snap-on protective hard cover, and soft pouch.

Output Test Voltage	Insulation Resistance Range	Live Circuit Detection	Resistance Range	Display	Auto Power Off	Auto Ranging	Power Source	Safety Rating	Mfr. Model	Item No.
250/500/1000V DC	0 to 5G Ohms	0 to 600V AC	0 to 200 ohm	Backlit LCD	No	Yes	(6) AA Batteries	CAT III 600V	MG310	**45ZA06**

Motor Rotation Indicators and Testers

Devices help ensure correct motor/pump installation by identifying the phases and CW/CCW rotation, to prevent damage to the motor or electrical system.

AEMC Phase Sequence Tester—Detects open or de-energized phases. Determines correct wiring for proper rotation. Color-coded leads and black alligator clips. Line powered; no battery required.

Amprobe Phase Sequence Motor Rotation Tester—Tests power sources and motors, using test leads or wirelessly. L1/L2/L3 inputs. Convenient error display. Test leads, probes, alligator clips, carrying case, and AAA batteries.

Extech Noncontact Phase Sequence Tester—Checks phase sequence and status on 3-phase power sources. Beeper indicates phase detected and if it is reversed. 3 built-in, 30" test leads have color-coded, fully insulated alligator clips. Includes case and AA batteries.

Extech Phase and Motor Rotation Tester—Checks phase orientation on 3-phase power sources and shows motor rotation. Indicates phase sequence and status.

Extech Phase Sequence Tester—Phase orientation on 3-phase power sources. Graphical and multiline indication. No battery required.

Megger Phase and Motor Rotation Tester—Tests phase sequence and rotation, motor rotation, and transformer polarity without having to first energize the motor. Fuse-protected test leads, spare fuses, and battery.

UEi Test Instruments Hermetic Compressor Analyzer—Indicates motor winding continuity and ground faults. Breakout jacks for voltage and resistance, 3 ranges of 250VAC, dual AC voltage operation, and reverse motor option.

5GTK3

40PC49

13X083

1TZP7

3T838

8GJC7

Item	Voltage Range	Display	Motor Rotation	Phase Rotation	Phase Voltage Present Indicator	Safety Rating	Mfr. Model	Item No.
AEMC								
Phase Sequence Tester	40 to 850V AC	LCD	No	Yes	Yes	CAT III 600V	6608	**5GTK3**
Amprobe								
Phase Sequence Motor Rotation Tester	40 to 700V AC	LCD	Yes	Yes	No	CAT IV 600V	PRM-6	**40PC49**
Extech								
Non-Contact Phase Sequence Tester	75 to 1000V AC	LED	No	Yes	Yes	CAT III 1000V, CAT IV 600V	PRT200	**13X083**
Phase And Motor Rotation Tester	40 to 600V AC	LED	Yes	Yes	Yes	CAT III 600V	480403	**1TZP7**
Phase Sequence Tester	40 to 600V AC	Multiline LCD	No	Yes	Yes	CAT III 600V	480400	**1TZP6**
Megger								
Phase And Motor Rotation Tester	Up to 600V AC	Analog Meter	Yes	Yes	Yes	—	560060	**3T838**
UEI Test Instruments								
Hermetic Compressor Analyzer	—	LED	No	No	No	—	HA1	**8GJC7**

Earth/Ground Resistance Testers

Each includes carrying case and batteries.

Extech Autoranging Clamp-On Tester 1YB44—Measures resistance current from 0.2mA to 30A. Programmable data logging with 116 data points. Automatic self-calibration, high/low alarms, and 9999-count LCD. Resistance check plate.

Megger Autoranging Clamp-On Tester 46AN65—Measures resistance current from 0.5mA to 35A and true RMS ground leakage current up to 35A RMS. Stores up to 2000 date- and time-stamped records. Electric noise filter, intelligent data hold, resistance and current alarms, and Bluetooth download capability. Includes calibration check, wrist strap, and software.

AEMC Autoranging Tester 4GA30—2- to 4-point ground resistance tester is fuse-protected to 250VAC. All error conditions are listed on the front panel, including low battery, overrange, and test lead shorts and lead reversals. Requires ground kit.

Extech 4-Wire 13X132—Autoranging tester with automatic zero adjustment measures resistance current less than 2mA. Performs 4-, 3-, and 2-wire testing with automatic I (current) and P (potential) spike checks. AC earth voltage, test hold, data hold, and overrange and low battery indication. Includes test leads with alligator clips and 4 auxiliary earth bars. Pollution degree 2.

Megger 1-Button 2MY25—Ground rod and grid testing and noise rejection to 40V. Measures ground resistance without disconnect when used with clamp 2MY26, sold separately on Grainger.com. IP54 weather-resistant. Includes probe and wire test kit.

Extech 3-Range Kit 9XKP5—Measures earth/ground resistance in 3 ranges. Hold, auto-zero, auto-off, and overload protection. Indicates overrange and low battery. Includes test leads, 2 auxiliary earth bars, and rubber holster.

1YB44

46AN65

4GA30

9XKP5

Ground Resistance Range	Accuracy	Res.	Operating Frequency	Power Source	Display	Safety Rating	Brand	Mfr. Model	Item No.
Clamp On Earth Resistance Testers									
0.025 to 1500 ohm	±1.5% Of Reading ±0.1	0.002 ohm	3,333 Hz	9V	Digital LCD	CAT II 600V, CAT III 300V	Extech	382357	**1YB44**
0.050 to 1500 ohm	±1.5% ±0.05 ohm	0.01 ohm	1,390 Hz	(1) AA Batteries	Digital LCD	CAT IV 600V	Megger	DET24C	**46AN65**
—	High Range ±35%, Low Range ±1.5%	0.01 to 10 Ohms	1,390 Hz	—	Digital LCD	IP30, EN 61010-2-032 & CATIV 600V Polution Degree 2	Megger	DET14C	**6MRN4**
Earth Ground Testers									
0 to 2000 ohm	2% of Reading ±1 Count	0.01 to 1 Ohms	128 Hz	(8) C Batteries	Digital LCD	CAT III 30V	AEMC	4620	**4GA30**
0.002/0.02/0.2/2 kilohm	±2% of Reading ±3 Digits	0.001 to 1k Ohms	820 Hz	(8) AA Batteries	Dual Line LCD	CAT IV 300V	Extech	GRT300	**13X132**
0.01 to 2000 ohm		—	128 Hz	(8) AA Batteries	Digital LCD	CAT IV 100V	Megger	DET3TC	**2MY25**
Earth Ground Tester Kit									
0.02/0.2/2 kilohm	±0.8% of Reading ±3 Digits	0.01 Ohms	820 Hz	(6) AA Batteries	Digital LCD	CAT III 1000V	Extech	382252	**9XKP5**

Insulation and Leakage Testing Basics

Equipment—including motors, drives, cables, and transformers—relies on insulation for proper operation. In insulation testing, a relatively high DC voltage is used to make leakage current more apparent (similar to pressure testing a plumbing system). Although instruments supply high voltage, the current delivered is strictly limited to protect machinery and ensure operator safety.

Most digital multimeters have a resistance measurement capability, but this function uses just a few volts. What's needed is to test the insulation at a higher voltage than working voltage. This will ensure that any leakage will show up, and if there is a potential for arcing it will occur under controlled test conditions. If testing above the working voltage is not possible, insulation resistance can be determined by measuring leakage current directly with a leakage clamp meter.

1BE65

45ZA03

5NLK7

45ZA04

Insulation and Leakage Testers

FLUKE

Rugged and reliable testers are designed for troubleshooting and preventive maintenance applications. 1k to 10kVDC output tests insulation beyond working voltage and ensures that leakage and arcing are identified in a controlled testing environment.

FLUKE 1507/1503 MEGOHMMETERS

- Earth bond resistance measurement verifies grounding integrity

Insulation testers have a remote test probe that simplifies repetitive or hard-to-reach testing. 1BE65 has a CAT III 1000V, CAT IV 600V safety rating; 1BE68 has CAT III 600V. 1BE65 autocalculates polarization index (PI) and dielectric absorption ratio (DAR), saving time and money. Its pass/fail compare function enables repetitive tests.

FLUKE 1555/1550C MEGOHMMETERS

- Selectable test voltages: 50V increments from 250V to 1000V, 100V increments above 1000V
- Autocalculate polarization index (PI) and dielectric absorption ratio (DAR) with no additional setup
- Guard system prevents leakage current effect on high-resistance measurements
- Capacitance and leakage current measurement
- Ramp function for breakdown testing

Provide digital insulation testing up to 10,000V (1555) or 5000V (1550C)—the entire range of test voltages specified in IEEE 43-2000. Test a wide range of high-voltage equipment, including switchgear, motors, generators, and cables. Store up to 99 measurements with user-defined labels, with a PC interface for preventive or predictive maintenance programs. 5NLK9 includes heavy-duty alligator clips. Kits add NIST certificate of calibration, IP67 case, and heavy-duty alligator clips for 1550C. Instruments have CAT III 1000V, CAT IV 600V safety rating.

FLUKE 1587/1577 INSULATION TESTERS

- Autodischarge capacitive voltage
- AC/DC voltage, DC mV, AC/DC mA, resistance, and continuity

Instruments provide 2 powerful tools in 1—a multimeter and an insulation tester. Model 1587 adds capacitance, diode test, temp., min./max., frequency, and low-pass filter. Both have CAT III 1000V, CAT IV 600V safety rating.

FLUKE 1587FC/MDT ADVANCED MOTOR AND DRIVE KIT

- Polarization index (PI) with dielectric absorption ratio (DAR)
- Memory storage and temperature compensation through mobile app
- Bluetooth interface

Digital LCD (backlit), remote probe, contact temperature probe, phase rotation indicator, and VFD low-pass filter. Kit includes Fluke 1587FC Insulation Multimeter (45ZA03), Fluke i400 Current Clamp (4YE82), and Fluke 62 Max +IR Thermometer (16X950). Instruments have CAT III 1000V, CAT IV 600V rating.

Insulation Resistance Range	Resistance Range	Output Test Voltage	Multimeter Functionality	Live Circuit Detection	Capacitance Range	Manufacturers Warranty	Mfr. Model	Item No.
Battery Operated Megohmmeters								
0.01M to 10 gigohm	0 to 20 kilohm	50/100/250/500/1000V DC	No	Greater Than 30V	—	1 yr	Fluke-1507	**1BE65**
0.1 to 2000 megohm	0 to 20 kilohm	500/1000V DC	No	Greater Than 30V	—	1 yr	Fluke-1503	**1BE68**
2 teraohm	—	50 to 10,000V DC	No	Greater Than 30V	0.01 to 15 uF	3 yr	Fluke-1555/KIT	**5NLL0** *
1 teraohm	—	50 to 5000V DC	No	Greater Than 30V	0.01 to 15 uF	3 yr	Fluke-1550C	**5NLK7** *
1 teraohm	—	50 to 5000V DC	No	Greater Than 30V	0.01 to 15 uF	3 yr	Fluke-1550C/KIT	**5NLK8** *
2 teraohm	—	50 to 10,000V DC	No	Greater Than 30V	0.01 to 15 uF	3 yr	Fluke-1555	**5NLK9** *
Insulation Multimeter								
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000V DC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr	FLUKE-1587FC	**45ZA03**
Insulation Tester								
0.1 megohm to 600 megohm	0 to 50 megohm	500/1000V DC	Yes	1000V AC/V DC	—	3 yr	Fluke-1577	**1BE62**
Advanced Motor and Drive Kit								
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000V DC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr	FLK-1587MDT FC/WWG	**45ZA04**
0.01M Ohms to 2G Ohms	0 to 50 megohm	50/100/250/500/1000V DC	No	Greater Than 30V	1000 nF to 9999 uF	3 yr	1587/62MAX+FC/WWG	**45ZA05**

** Compatible with Fluke Connect technology.*

Vibration Testers

FLUKE.

Vibration measurement and evaluation is one of the best ways to assess the condition of rotating machinery. These vibration testers make machine condition evaluation fast and simple for frontline technicians by providing onboard identification and severity of the most common mechanical faults: bearing impacting, shaft misalignment, looseness, and unbalance. Fault conditions are categorized as slight, moderate, serious, or extreme to help prioritize corrective actions.

FLUKE 810 VIBRATION TESTER

Compares machine vibration signatures to a database of hundreds of thousands of machines of many types, sizes, and configurations, to produce an instant diagnosis and severity without the need to build-up measurement baselines over time. Includes laser tachometer, tri-axial accelerometer with magnet, viewer PC software, training DVD, smart battery pack with charger. 3-yr. warranty.

FLUKE 805 FC VIBRATION METER

Fluke Connect-enabled wireless meter monitors machine condition with direct-measurement sensor tip, noncontact IR temperature sensor, and connector for external magnetic sensor accessory.

Fluke 805FC
39UL62

Fluke 810
5AER8

Description	Frequency Range (Hz)	Accel. Range	Mfr. Model	Item No.
Vibration Testers				
Vibration Tester	2 Hz to 20 k	0 to 80g Peak	Fluke-810	**5AER8**
Vibration Meter	10 to 1000/4000 to 20,000	0 to 50g	FLUKE-805 FC	**39UL62**
Fluke 810 Replacement Accessories				
Smart Battery Pack	—	—	SBP810	**5NLL8**
Noncontact Tachometer Probe	—	—	810T	**5TDG3**
Vibration Tester Sensor	X Axis 2 to 5000 Hz +/-3dB, Y Axis 2 to 5000 Hz +/-3dB, Z Axis 2 to 7000 Hz +/-3dB	80 g Peak	810S	**5NLL7**
Quick Disconnect Cable	—	—	810QDC	**5TDG4**
Vibration Sensor Mounting Pads	—	—	810SMP	**5NLL9**

FLUKE.

Earth/Ground Testers

Provide frontline troubleshooting and in-depth soil analysis—a complete solution for utilities, electrical contractors, industrial facilities, telecom, and data centers. Each includes required connections, leads, and hard case. Genuine Fluke accessories are available on Grainger.com, search for "earth ground tester acc".

FLUKE 1623-2 AND 1625-2

Designed with 3- and 4-pole fall of potential and 4-pole soil resistivity testing. Also features selective earth ground rod testing using 1 clamp and stakeless earth ground rod testing using 2 clamps. 30JZ61 features automatic frequency control that identifies existing interference and selects a measurement frequency to minimize its effect; provides more accurate earth ground value. Also calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault to earth ground would see. Includes adjustable limits for faster testing. Kits 30JZ58 and 30JZ59 include 4 stakes, 3 wire spools, 2 clamps, cables, batteries, manual, and carrying case.

30JZ58

30JZ61

30JZ62

30JZ69

Earth Measurement Poles	Measuring Voltage	Operating Frequency	Earth Measurement Clamps	Soil Resistivity	Mfr. Model	Item No.
Earth Ground Tester Kits						
3, 4	Less Than 48	128 Hz	Selective, Stakeless	Yes	FLUKE-1623-2 KIT	**30JZ58**
2, 3, 4 (AC), 2, 4 (DC)	Less Than 20	94/105/111/128 Hz	Selective, Stakeless	Yes	FLUKE-1625-2 KIT	**30JZ59**
Earth Ground Testers						
3, 4	Less Than 48	128 Hz	No	Yes	FLUKE-1623-2	**30JZ60**
2, 3, 4 (AC), 2, 4 (DC)	Less Than 20	94/105/111/128 Hz	No	Yes	FLUKE-1625-2	**30JZ61**

Item	For Use With	Includes	Mfr. Model	Item No.
Accessories				
Earth Stake	Fluke-1625-2, Mfr. No. Fluke-1623-2	—	EARTH STAKE	**30JZ62**
Stake Accessory Kit	Fluke-1625-2, Mfr. No. Fluke-1623-2	(1) 25m Blue Cable with Reel, (1) 50m Red Cable with Reel, (3) Earth Stakes	ES-162P3-2	**30JZ67**
	Fluke-1625-2, Mfr. No. Fluke-1623-2	(1) 25m Blue Cable with Reel, (1) 25m Green Cable with Reel, (1) 50m Red Cable with Reel, (4) Earth Stakes	ES-162P4-2	**30JZ68**
Cable Reel Accessory	Fluke-1625-2, Mfr. No. Fluke-1623-2	25m Blue Cable	CABLE REEL 25M BL	**30JZ63**
	Fluke-1625-2, Mfr. No. Fluke-1623-2	25m Green Cable	CABLE REEL 25M GR	**30JZ64**
	Fluke-1625-2, Mfr. No. Fluke-1623-2	50m Red Cable	CABLE REEL 50M RD	**30JZ65**
Pylon Clamp Kit	Mfr. No. Fluke-1625-2	(2) Fasteners, Hard Carrying Case, Manual, Split Core Transformer Clamp, Test Lead	EI-162BN	**30JZ69**
Carrying Case	Fluke-1625-2, Mfr. No. Fluke-1623-2	—	C1620	**30JZ66**

48JP64

780AY2

780AY0

Portable Oscilloscopes

FLUKE

Connect-and-View automatic triggering captures complex signals. TrendPlot paperless recorder mode extends trend analysis up to 22 days. 5 versions of each model are complete kits that include FlukeView ScopeMeter software and hard carrying case. NIST versions include calibration certificates.

Note: Additional accessories are available on Grainger.com; search for "fluke oscilloscope accessories."

FLUKE 190 SERIES

- DMM and paperless recording modes
- Color display
- Safety rating: CAT III 1000V, CAT IV 600V, with isolated floating inputs

Rugged instruments combine oscilloscope and digital multimeter (DMM) functionality in a single housing, for use in harsh environments. 60-, 100-, 200-, and 500-MHz oscilloscopes provide up to 2.5G samples per sec. (Sa/s) with advanced triggering, waveform measurement, and analysis. They feature 2- and 4-channel input. Each includes shielded 10:1V test lead, ground lead, 2 hook clips, 3 alligator clips, banana-to-BNC adapter, rechargeable Li-ion battery pack, and charger.

COMPACT SCOPEMETER 120B SERIES

- Paperless recording
- Safety rating: CAT IV 600 V

5,000-count True-RMS digital multimeters combine an oscilloscope, multimeter, and paperless recorder in a rugged, IP51 housing for use in harsh environments. They integrate with the Fluke Connect mobile app and FlukeView for ScopeMeter software for easier collaboration, enhanced data analysis, and improved critical test information archiving. Fluke 125 models also perform harmonics and bus health test. Complete kit contents are listed on Grainger.com.MDA-500 Series Motor Drive Analyzers

- Built-in report generator
- Color display
- Safety rating: CAT III 1000V, CAT IV 600V

Portable Motor-Drive Analyzers help ease troubleshooting for inverter-type motor drive systems, with guided testing and preset measurement profiles to make sure that you have the data that you need. Measure key motor-drive parameters, perform extended harmonics measurements, conduct guided measurements, and create reports all with a single tool. Graphical step-by-step voltage and current connection diagrams ease set-up.

Bandwidth (MHz)	Sampling Rate	Channels	NIST	Battery Life	Safety Rating	Mfr. Model	Item No.
Compact ScopeMeter 120B Series							
Automatic Connect and View, Edge							
20 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-123B/WWG	**48JP64**
40 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-124B/WWG	**48JP65**
40 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-125B/WWG	**48JP66**
Compact ScopeMeter 120B Series with Kit							
Automatic Connect and View, Edge							
20 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-123BS/WWG	**48JP67**
40 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-124BS/WWG	**48JP68**
40 MHz	40 MS/sec	2	No	7 hr	CAT IV 600V	FLUKE-125BS/WWG	**48JP69**
MDA-500 Series Motor Drive Analyzers							
Automatic Connect-and-View, Delay, Dual Slope, Edge, Free Run, N-Cycle, Selectable Pulse width (Channel A Only), Single Shot, Video, Video Line							
500 MHz		4	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-MDA-550-III	**780AY6**
ScopeMeter 190 Series III							
60 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-062-III	**780AX4**
60 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-062-III-S	**780AX5**
100 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-104-III	**780AX8**
100 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-104-III-S	**780AX9**
100 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-102-III	**780AX6**
200 MHz	5 GS/sec	4	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-204-III	**780AY2**
200 MHz	5 GS/sec	4	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-204-III-S	**780AY3**
200 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-202-III	**780AY0**
200 MHz	5 GS/sec	2	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-202-III-S	**780AY1**
500 MHz	5 GS/sec	4	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-502-III	**780AY4**
500 MHz	5 GS/sec	4	Yes	Up to 3 hr	CAT III 1000V/CAT IV 600V	FLUKE-190-502-III-S	**780AY5**

Description	Mfr. Model	Item No.
Accessories		
AC/DC Current Clamp, 100 MHz	I30S	**2ATY3**
190 Series Replacement Battery	BP190	**4YV70**
120 Series Replacement Battery	BP120MH	**2EWV6**
Voltage Probe, 500 MHz, 300V, Red	VPS510-R	**42X225**
Voltage Probe, 500 MHz, 300V, Gray	VPS510-G	**42X226**
Voltage Probe, 500 MHz, 300V, Blue	VPS510-B	**42X227**
Voltage Probe, 500 MHz, 300V, Green	VPS510-V	**42X228**
Voltage Probe, 500 MHz, 1000V, Red	VPS410-II-R	**42X231**
Voltage Probe, 500 MHz, 1000V, Gray	VPS410-II-G	**42X232**
Voltage Probe, 500 MHz, 1000V, Blue	VPS410-II-B	**42X233**
Voltage Probe, 500 MHz, 1000V, Green	VPS410-II-V	**42X234**

2GMH3

1CXJ1

Bench Digital Multimeters

FLUKE

- 2 x 4-wire, precision 4-wire resistance measurement technique
- Dual readings for interrelated measurements
- Interface ports for data capture to PC

Handle demanding measurements on a workbench or in a system. Each includes test leads, power cord, and spare line power fuse.

FLUKE 8808A

- 5.5-digit resolution, up to 0.015% accuracy
- Dedicated DC leakage range for sensitive current measurements

Description	Mfr. Model	Item No.
Accessory		
2x4 Wire Ohms 1000V Test Leads	TL2X4W-PTII	**1CXJ1**

Res.	Basic DC Accuracy	Measurement Functions	Advanced Measurements	Connectivity	Mfr. Model	Item No.
Bench Digital Multimeters						
5.5 Digits	±0.01%	Amps AC and DC, and Frequency, Ohms, VAC and VDC	2 x 4 Wire Ohms, Setup Keys	RS-232 PC Interface	Fluke-8808A 120V	**2GMH3**
5.5 Digits	±0.01%	Amps AC and DC, and Frequency, Ohms, VAC and VDC	2 x 4 Wire Ohms, Setup Keys	RS-232 PC Interface	Fluke-8808A/SU 120V	**2GMH4**

Autonics Sensors & Controllers · Simpson · Supplier Diversity

12G476

1X181

Digital Panel Meters

- Screw-terminal connector type

Note: Required accessories are sold separately on page 560.

Style	Input Range	Power Req.	Display Span	Display	Excitation	Accuracy	Fits	Mounting	Brand	Item No.
AC Current										
24x72	0 to 5A AC	85-250V AC	0 to10/100/1000	Red LCD	No	±0.5% of reading ±5count	Standard 3/648 DIN Cutout	—	—	**12G476**
48x96	0 to 5A AC	40V-300V AC/V DC	0 to 10/100/1000	Red LED	No	±0.5% of range + 1 Digit	Standard ⅛ DIN Cutout	—	—	**12G478**
	0 to 5A AC	40V-300V AC/V DC	0 to 15/150	Red LED	No			—	—	**12G479**
	0 to 5A AC	40V-300V AC/V DC	0 to 30/300	Red LED	No			—	—	**12G481**
	0 to 5A AC	40V-300V AC/V DC	0 to 50/500	Red LED	No			—	—	**12G483**
	0 to 5A AC	40V-300V AC/V DC	1999	Red LED	No			—	—	**12G470**
Falcon	0 to 5A AC	120V AC	0 to 10/100/1000	Red LED	No	±1% of reading ±5 counts		Clip	Simpson Electric	**1X181**
Hawk 3	0 to 5A AC	120V AC	1999	Red LED	No	±0.3% of reading ±2 counts		Clip	Simpson Electric	**1FC99**
MT4W Series	0 to 5AAC	100 - 240 V AC 50/60hz	-1999 ~ 9999	Red LED	No	±0.3%	⅛ DIN	Bracket	Autonics	**11Y538**
MT4Y Series	0 to 5AAC	100 - 240 V AC 50/60hz	-1999 ~ 9999	Red LED	No		72x36mm	Bracket	Autonics	**11Y512**
AC Voltage										
Hawk 3	0 to 200V AC	120V AC	1999	Red LED	No	±0.1% of reading ±1 count	⅛ DIN Cutout	Clip	Simpson Electric	**4EU89**
	0 to 600V AC	120 V AC	1999	Red LED	No	±0.2% of reading ±1 count		Clip	Simpson Electric	**3FTU2**
DC Current										
Falcon	0 to 50mV DC	120V AC	0 to 150 ADC	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	Simpson Electric	**1X145**
DC Scaling										
M4NS Series	4 to 20mA DC	Loop Powered	-1999 ~ 9999	Red LED	No	±0.3%	1⁄32 DIN	Bracket	Autonics	**11Y548**
M4V Series	0 to 2 V DC0 to 10V DC1 to 5V DC0 to1mA DC 4 to 20mA DC	12 - 24 V DC	-1999 ~ 9999	Red LED	No	±0.2%	3⁄64 DIN	Bracket	Autonics	**11Y550**
M4YS Series	4 to 20mA DC	Loop Powered	-1999 ~ 9999	Red LED	No	±0.3%	72x36mm	Bracket	Autonics	**11Y549**
DC Voltage										
24x72	0 to 20V DC	85-250V AC	1999	Gray LCD	No	±0.1% of reading ±1Count	Standard 3/648 DIN Cutout	—	—	**12G498**
	0 to 200V DC	85-250V AC	1999	Gray LCD	No			—	—	**12G507**
2800 Series	0 to 200V DC	120V AC	1999	Red LED	No	±1.0% of input + 5 counts	1.682 x 3.622 in Cutout	Slide Mounting Brackets	Simpson Electric	**1T902**
Falcon	0 to 20V DC	120V AC	1999	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	Simpson Electric	**2T861**
	0 to 200mV DC	120V AC	1999	Red LED	No			Clip	Simpson Electric	**2T859**
	0 to 200V DC	120V AC	1999	Red LED	No			Clip	Simpson Electric	**2T862**
Hawk 3	0 to 20V DC	120V AC	1999	Red LED	No			Clip	Simpson Electric	**1FC98**
Mini-Max	0 to 20V DC	9-32V DC	1999	Gray LCD	No		Standard 3⁄64 DIN Cutout	Unique, Allows Stacking of Multiple Meters	Simpson Electric	**1X345**
Digital										
Amik	100 to 500V AC	40V-300V AC/V DC	9999	Red LED	No	±1%	¼ DIN, 96 x 96mm Opening, Din Rail	Clip	Simpson Electric	**48MD90**
Frequency										
Falcon	20 to 199.9Hz	120V AC	20 to 199.9	Red LED	No	±.2% of input ±0.2 Hz	Standard ⅛ DIN Cutout	Clip	Simpson Electric	**4TL78**
Process										
Falcon	0 to 10V DC	120V AC	0 to 100%	Red LED	No	±0.1% of reading ±1 count	Standard ⅛ DIN Cutout	Clip	Simpson Electric	**2T885**
	0 to 10V DC	120V AC	0 to 100%	Red LED	No	±0.02% of reading ±1 count		Clip	Simpson Electric	**2T887**
	4 to 20mA DC	120V AC	0 to 100%	Red LED	No			Clip	Simpson Electric	**2T884**
Hawk 3	4 to 20mA DC	120V AC	0 to 100%	Red LED	No	±0.1% of reading ±1 count		Clip	Simpson Electric	**1FD10**
	4 to 20mA DC	120V AC	0 to 100%	Red LED	24 V DC		⅛ DIN Cutout	Clip	Simpson Electric	**4EU92**
Temperature										
Falcon	Type J T/C	120V AC	-328° to 2192°F	Red LED	No	±0.1% of reading ±1.8°F	Standard ⅛ DIN Cutout	Clip	Simpson Electric	**2T907**
Hawk 3	Type J T/C	120V AC	-328° to 2192°F	Red LED	No	±0.2% of reading ±2 counts		Clip	Simpson Electric	**1FD12**
Mini-Max	RTD Pt100	85-250V AC	-328° to 1562°F	Red LED	No	±0.2% of reading + 2.7°F	Standard 3⁄64 DIN Cutout	Unique, Allows Stacking of Multiple Meters	Simpson Electric	**3LW54**
	Type J T/C	85-250V AC	-328° to 2192°F	Red LED	No	±0.1% of reading + 2.7°F		Unique, Allows Stacking of Multiple Meters	Simpson Electric	**3LW52**
	Type K T/C	85-250V AC	-328° to 2498°F	Red LED	No			Unique, Allows Stacking of Multiple Meters	Simpson Electric	**3LW53**

Range	Size 2.5" Item No.	3.5" Item No.	4.5" Item No.
AC Current			
0 to 5 AC A	**12G369**	**12G370**	**12G371**
0 to 10 AC A	**12G372**	**12G373**	—
0 to 15 AC A	**12G376**	**12G378**	**12G377**
0 to 25 AC A	**12G379**	**12G380**	**12G383** *
	—	**12G382** *	—
0 to 50 AC A	**12G385**	**12G384**	**12G388** *
	—	**12G387** *	**12G386**
0 to 75 AC A	—	**12G389** *	**12G390** *
0 to 100 AC A	**12G391** *	**12G392** *	**12G393** *
0 to 150 AC A	**12G394** *	**12G395** *	**12G396** *
0 to 200 AC A	—	**12G398** *	**12G399** *
0 to 300 AC A	**12G401** *	**12G402** *	**12G403** *
AC Percent Load			
0 to 150% 5 AC A	—	**12G413** *	**12G414** *
AC Voltage			
0 to 150 AC V	**12G405**	**12G406**	**12G404**
0 to 300 AC V	**12G409**	**12G407**	—
0 to 500 AC V	**12G410**	**12G411**	**12G412**
DC Current			
0-10 DC A	—	**12G417**	—
0-25 DC A	**12G419**	**12G420** †	—
0-50 DC A	**12G422**	**12G423**	—
DC Voltage			
0-15 DC V	**12G436**	**12G437**	—
0-30 DC V	—	**12G439**	—
0-50 DC V	**12G443**	**12G441**	—
0-150 DC V	**12G445**	—	**12G444**

** External 5A AC current transformer required. † External 50mV shunt required.*

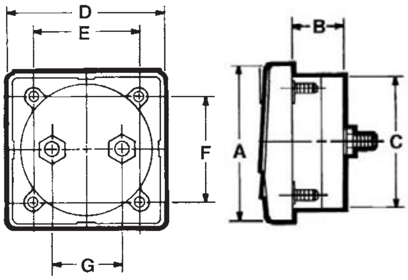
12G382

Analog Panel Meters

- ±1.5% accuracy
- Polycarbonate window

Each includes panel cutout template and mounting hardware.

Percent Load Meters—These sensitive meters visually monitor the load conditions of AC or DC motors while they are running, helping to prevent motor overloading and burnout. Scale is color segmented for easy reading.



Size	Dimensions A	B	C	D	E	F	G
2½"	2.47"	1.15"	2.17"	2.47"	1.88"	1.88"	1.00"
3½"	3.25"	1.22"	2.71"	3.25"	2.25"	2.25"	1.50"
4½"	4.00"	1.22"	2.75"	4.68"	3.56"	3.56"	1.50"

12G458

440G27

12G456

Current Transformers and Shunts for Digital and Analog Panel Meters

CURRENT TRANSFORMERS

Produce a 5A output for each primary range.

SHUNTS

50mV shunts enable a digital or analog panel meter to indicate higher DC currents than with a self-contained internal shunt. Portable units are mounted in a phenolic base. Switchboard units mount directly onto a busbar.

Primary Range	Item No.
Solid Core Current Transformer	
0 to 50A	12G458
0 to 75A	12G459
0 to 100A	12G460
0 to 150A	12G461
0 to 200A	12G462
0 to 250A	12G463
0 to 300A	12G464
0 to 400A	12G465
0 to 500A	12G466
0 to 600A	12G467
External Portable Shunt	
5ADC	440G27
10ADC	12G450
Switchboard Shunt	
300ADC	12G456
500ADC	12G457

6XAA3

13X092

2LUW7

46F063

2LUY3

EXTECH INSTRUMENTS   BK PRECISION ELECTRONIC TEST INSTRUMENTS

Single-Output DC Power Supplies

EXTECH

Each includes power cord.

5% to 100% Current Limits

6XAA3 and 6XAA5: Short circuit protection. Constant voltage or current. High load/line regulation. Banana plug output terminals. Low noise/ripple.

13X092: Dual-action voltage and current control with push-knob for fine and coarse tuning. Automatic constant current and constant voltage crossover. Remote control for output voltage/current and On/Off. 2 custom voltage and current presets and 13.8V/20A factory preset. Overvoltage, overtemperature, and short-circuit protection. High RFI immunity and excellent EMI.

B&K PRECISION

Constant Current

- Parallel or series connection
- Load regulation

6T508: Overload, thermal, and short-circuit protection.

2LUW9: Overload and short-circuit protection. Variable voltage output at continuous operation. Output selectable by slide switch.

2LUW7: Overcurrent, overvoltage, and overtemperature protection. Automatically recalculates voltage/current limits for each setting. Output On/Off control. 100W max. output.

0% to 100% Current Limits

- Reverse polarity and overload protection
- Parallel or series connection
- 16 programmable preset outputs
- In-case calibration
- Output On/Off control
- Selectable 10mV/10mA resolution
- Load regulation

Each includes RS-232-to-TTL cable and software.

5% to 100% Current Limits

- Reverse polarity, overload, thermal, and short-circuit protection, except 1T197 reverse polarity and overload only
- Load regulation
- 0 to 30V models offer constant voltage and current and parallel or series connection
- 0 to 60V and 0 to 35V models offer current limiting, constant current, or voltage operation

Output Volts (DC)	Output Current (A)	Input Voltage	Ripple Volts Regulation	Line Volts Regulation	Meter Type	Display	Mfr. Model	Item No.
Extech								
Current Limit - 5% to 100%								
0 to 18	0 to 3	115/230V ACVAC	0.5mV	0.1% + 3mV	Dual LCD	—	382202	**6XAA3**
0 to 30	0 to 1	115/230V ACVAC	0.5mV	0.1% + 3mV	Dual LCD	—	382200	**6XAA5**
	0 to 20	120V ACVAC	>5mVrms	20mV	Digital	Dual LED	382275	**13X092**
B&K Precision								
Constant Current - 1% to 100%								
3 to 15	0 to 40	120V ACVAC	10 mVrms	80mV (+/-10% variation)	2 Digital	3 Digit LED	1692	**2LUW9**
0 to 60	0 to 5	120/220V ACVAC	2.0 mVrms	0.01% + 3mV	2 Digital	4 Digit LED	9110	**2LUW7**
Constant Current Operation								
18	20	100 to 240 V ACVAC	≤5 mV	≤20mV	Digital	Dual LED	1688B	**46F062**
30 to 60	Low Range: 3 ; High Range: 2	120/220V AC +/ to 10%VAC	1 mVrms	0.01% + 3mV	Digital	Dual LED	1737	**46F063**
35 to 60	Low Range: 0-10 ; High Range: 0-5	120/220V AC +/ to 10%VAC	1 mVrms	0.01% + 3mV	Digital	Dual LED	1747	**46F064**
36	10	100 to 240 V ACVAC	≤5 mV	≤20mV	Digital	Dual LED	1687B	**46F061**
60	5	100 to 240 V ACVAC	≤5 mV	≤20mV	Digital	Dual LED	1685B	**46F060**
Current Limit - 0% to 100%								
0 to 30	0 to 3	110/240V ACVAC	≤5 mVrms	≤0.05 % + 1mV	Digital	Dual 3 Digit LED	1670A	**20FP71**
0 to 80	0 to 60	100 to 240V ACVAC	60 mVpp	0.02 + 1mV	Digital	5 Digit VFD	9115	**20VD83**
1 to 32	0 to 30	120V ACVAC	≥5 mVrms	>or Equal To 20mV	2 Digital	3 Digit LED	1901B	**49AF90**
1 to 60	0 to 15	120V ACVAC	≥5 mVrms	>or Equal To 20mV	2 Digital	3 Digit LED	1902B	**49AF91**
5 to 150	0.04 to 10.4	100 to 240V ACVAC	>or Equal 10 mVrms	>or Equal 17mV	Digital	4 Digit VFD	XLN15010-GL	**20VD78**
60	25	110/220 VAC +/ to 10 %VAC	≥20 mVp-p	>or Equal to 0.01% + 15 mV	Digital	Vacuum Fluorescent Display	9205B	**794LC1**
Automatically Recalculate Voltage and Current Limits								
150	10	110/220 VAC +/ to 10 %VAC	≥50 mVp-p	>or Equal to 0.01% + 15 mV	Digital	Vacuum Fluorescent Display	9206B	**794LC2**
Current Limit - 5% to 100%								
0 to 30	0 to 3	120/240V ACVAC	≥1mV	>or Equal To 0.01% + 3mV	2 Digital	4 Digit LED	1735A	**1T197**
0 to 35	0 to 6	120/240V ACVAC	≥1mV	>or Equal To 0.2% + 2mV	2 Digital	4 Digit LED	1743B	**3CE32**
	0 to 10	110/240V ACVAC	>1mVrms	>0.02% + 2mV	Digital	Dual 4 Digit LED	1745A	**20FP73**
0 to 60	0 to 2	120/240V ACVAC	≥1mV	>or Equal To 0.01% + 3mV	2 Digital	4 Digit LED	1715A	**3WU40**
3 to 14	12 @ 13.8V DC	120/230V ACVAC	≥10mV RMS	>or Equal To 0.8%	2 Analog	—	1686A	**6T508**
Accessory								
Test Lead Set, Includes 1 Pair of Each 48" Long Leads (Straight to Retractile Stacking Plug), Large Insulated Alligator Clips, Standard Alligator Clips with Rubber Boots, Spade Lug Adapter 6mm, Insulated Shrouded 4mm Banana Plug Adapters, and Remote Sensing Leads							TLPS	**2LUY3**

RF Adapter Kits

Pomona®

Includes	Mfr. Model	Item No.
N-Type Male and Female, BNC Male and Female, TNC Male and Female, SMA Male and Female, Coupler, Double Banana Plug, Double Binding Post	5698	**30PH70**
BNC Female/N-Type Male, SMA Female/N-Type Male, SMA Male/N-Type Male, SMA Male/N-Type Female, SMA Female/N-Type Female, SMA Female/TNC Male, SMA Female/BNC Female, SMA Male/BNC Male, SMA Male/ TNC Female, SMA Female/TNC Female, SMA Male/BNC Female, SMA Male to Female Right Angle, SMA Male to Male, BNC Male/N-Type Female, N-Type Female to Female, BNC Male to Male, N-Type Male to Male, SMA Male/ TNC Male, TNC Male/BNC Female, BNC Female to Male to Female, TNC Female to Female, BNC Female to Female to Female, BNC Female to Female, SMA Female to Female, SMA Male Termination, SMA Female/BNC Male	72934	**30PH72**
N-Type Male and Female, BNC Male and Female, TNC Male and Female, SMA Male and Female, Coupler, Double Banana Plug, Double Binding Post, UHF Male and Female, Mini UHF Male and Female, F Male and Female, RCA Male and Female, Signal Sampler	5748	**30PH71**

30PH72

30PH97

Pomona®

Component Boxes

Features	H	W	D	Item No.
—	1.38 in	2.25 in	1.13 in	**30PH94**
	2.64 in	4.25 in	1.71 in	**30PH95**
BNC Female Connectors	1.13 in	2.25 in	0.88 in	**30PH92**
	1.38 in	2.25 in	1.13 in	**30PH96**
BNC Male and Female Connectors	1.13 in	1.5 in	0.88 in	**30PH97**
	1.13 in	2.25 in	0.88 in	**30PH93**

30PH63

30PH66

30PH74

BNC Adapters

Pomona®

Adapter Type	Contact Material	Frequency Range (Hz)	Voltage Rating	Item No.
Beryllium Copper Body Material				
Female to Male	Brass/Beryllium Copper	DC to 12.4 GHz	335 Vrms	**30PH63**
Male to Female	Brass/Beryllium Copper	DC to 12.4 GHz	335 Vrms	**30PH64**
Brass Body Material				
Bulkhead	Beryllium Copper	DC to 500 MHz	500 Vrms	**30PH65**
Female Panel	Beryllium Copper	—	500 Vrms	**30PH60**
Female to Female	Beryllium Copper	—	500 Vrms	**30PH61**
Male to Female to Female	Brass/Beryllium Copper	—	500 Vrms	**30PH66**
Phone Plug	Beryllium Copper	—	500 Vrms	**30PJ22**
Termination	Brass/Beryllium Copper	DC to 250 MHz/250 to 500 MHz	500 Vrms	**30PH74**
Nickel Plated Brass Body Material				
Female to Double Banana Plug	Gold Plated Beryllium Copper	—	30V AC/60V DC	**3T045**
Female to Female	Gold Plated Beryllium Copper	—	30V AC/60V DC	**3T037**
Female to Female to Female	Gold Plated Beryllium Copper	—	30V AC/60V DC	**3T038**
Male to Double Binding Post	Gold Plated Brass	—	30V AC/60V DC	**3T048**
Polypropylene Body Material				
Feamale to Binding Post	Brass	—	30V AC/60V DC	**30PH59**

SCS Pomona® DESCO

Static Grounding Components, Kits, Systems, and Tester

Protect sensitive electronic components from static charge during assembly, repair, and transport.

Features	Brand	Item No.	Pkg. Qty.
Antistatic Heel Strap			
Blue, Elastic Hook and Loop Closure, Cross-linked Tire Grade Rubber Will Not Leave Black Marks on Floor, 1 megohm Resistor	—	**4ECU7**	1
Cross-linked Tire Grade Rubber Will Not Leave Black Marks on Floor, Elastic Hook and Loop Closure, Yellow	—	**4ECU8**	20
Antistatic Table Mat			
Blue mat has 3-layer construction to maximize dissipation	SCS	**3BU23**	1
Antistatic Table Mat, Green			
0.065 in Thick, Lead Free, Nitrile Rubber	—	**4ECV1**	1
0.138 in Thick, Lead Free, Nitrile Rubber	—	**4ECU9**	1
Elastic Wrist Strap Kit			
7 Strand Tinsel Wire, Lead-free, RoHS Compliant	—	**4ECU6**	1
Adjustable Elastic Wrist Strap Kit: wrist strap, cord, and alligator clip	Pomona	**4KK39**	1
Lead-free, RoHS Compliant	—	**4ECV9**	1
Grounding Strap			
Medium	Desco	**8P766**	1
Heel Grounding Strap			
(1) Megohm Resistor, and 2-Layer, Blue/Black Sole, Dissipative, Economy Heel Grounder,3/4 Elastic Loop	SCS	**20FX03**	1
1 Megohm Resistor, Burgundy Hook And Loop, Effectively Grounds Mobile Personnel When They Are In Contact With Conductive And Dissipative Flooring, ESD SP9.2 Type A, Moderate Heel Contact Area, No-Slip Black Sole	SCS	**3XJZ2**	1
NonMarring,Hook and Loop Closure,1 Megaohm Resistor	Desco	**9W661**	1
Hi-Visibility Grounding Strap			
1 Megohm Resistor, ESD SP9.2 Type A, Grounds Mobile Personnel When In Contact With Conductive And Dissipative Flooring, Yellow-Green Glow Strap	SCS	**3XJV3**	1
Metal Wrist Strap Kit			
Lead-free, RoHS Compliant	—	**4ECW2**	1
Static Control Cord, Straight			
Black PVC Cord and 7 Strand Tinsel Wire With Strain Reliefs at Both Ends, First End Straight Barrel Type Banana Jack, Lead-free RoHS Compliant, Second End Spring Loaded ⅛ in (4mm) Socket Connector	—	**4ECV7**	1
Static Control Kit			
Portable 18 x 22 in Anti-static Mat	—	**4ECW4**	1
Portable 22 x 24 in Static-safe Work Mat	—	**4ECW5**	1
Static Control Wrist Strap			
Flexible Stainless Steel Band, Stainless Steel Back Plate, 1M Ohm Resistor and 4mm Snap	—	**4ECW1**	1
Non Allergenic Elastic Band with Silver Conductive Fibers, Stainless Steel Back Plate, 1M Ohm Resistor and 4mm Snap	—	**4ECV8**	1
Static Shielding Bag			
Lead-free RoHS Compliant, Amino-free, Non-corrosive, Meets EIA-541 for Static Shielding Packaging	—	**4ECV2**	100
Wrist Strap			
Dual Wire, Mono Plug Connection	SCS	**29AH06**	1
Wrist Strap Tester			
Touch-type-on-demand tester for wrist strap and ground cord. Provides ground point for continuous protection and convenient use. Test static control wrist strap for correct operation	Pomona	**4KK43**	1
Wrist Strap Workstation Monitor			
Monitors Resistance/Voltage, Worksurface Ground Connections and Tool Ground Connections	SCS	**3XJZ5**	1

4ECU7

4ECV9

4ECV7

4ECW4

4ECV8

29AH06

4ECV2

4KK43

Scan. Order. Done.
Details on page A1.

56HN46

23V746

1TZP4

1TZR6

Circuit Breaker Finders

Flashing LED indicator and audible tone quickly identify specific circuit breakers or fuses. Finders also identify and troubleshoot energized outlets. Feature easy-to-read display and include at least 1 transmitter/receiver. 6NZF8, 6PFG2, and 56HN46 have automatic sensitivity adjustment. 23V745 and 23V746 have visual and audible indicators.

Voltage Range	Includes	Breaker/Fuse Identification	Audible Indicator	Battery Type	Brand	Mfr. Model	Item No.
Circuit Breaker Finders							
80 to 300V AC	—	Yes	No	—	Zircon	71263	**56HN46**
90 to 120V AC	Batteries Installed, Receiver, Transmitter, Users Manual	Yes	Yes	9V	Amprobe	BT-120	**6NZF8**
	9V Battery, OIPM, Receiver, Transmitter	Yes	Yes	9V	Westward	23V745	**23V745**
90 to 250V AC	Carrying Case, Light Fixture Adapter, Receiver, Test Leads, Transmitter	Yes	Yes	9V	Amprobe	BT-250	**12U593**
110/240V AC	9V Battery, OIPM, Receiver, Transmitter	Yes	Yes	9V	Westward	23V746	**23V746**
120V AC	Battery, Receiver, Transmitter	Yes	Yes	9V	Zircon	64070	**6PFG2**
	Digital Transmitter with GFCI Receptacle Tester, Receiver	Yes	Yes	9V	Extech	CB10	**1TZP4**
Electrical Troubleshooting Kit							
Includes CT20 Continuity Tester, DV20 AC Voltage Detector, Flashlight and Carrying Case, Mfr. No. CB10 Circuit Breaker Finder, Wire Tracer					Extech	CB10-KIT	**1TZR6**
Accessory							
Alligator Plug/Lighting Adapter					Westward	23V747	**23V747**

30ZX17

460J50

55AX71

Circuit and Wire Tracing Kits

Trace energized/de-energized circuits without power interruption, locate individual wires in a bundle, and locate shorts and ground faults.

Voltage Range	Includes	Traces Wires in: Conduit	Non-Metalic Conduit	Floors	Walls	Audible Indicator	Battery Type	Brand	Mfr. Model	Item No.
Circuit Breaker Finder										
0 to 750V AC/V DC	(2) 12 ft Leads, Batteries, Hard Carrying Case, Outlet Adapter, Receiver, Transmitter	Yes	Yes	Yes	Yes	Yes	(2) AA	Greenlee	CS-8000	**2NRW4**
Circuit Seeker										
0 to 600V AC/V DC	(2) Alligator Clips, (2) Extension Leads, AC Blade, AC Plug Adapter, Carrying Case	Yes	No	Yes	Yes	Yes	(4) AA	Greenlee	CS-5000	**490Z78**
Circuit Tracer Kit										
0 to 600V AC/V DC	Hard Carrying Case, LED Receiver, Test Lead Set, Transmitter	No	No	No	Yes	Yes	(4) AA	IDEAL	61-955	**30ZX16**
	Hard Carrying Case, OLED Rotating Receiver, Test Lead Set, Transmitter	No	No	No	Yes	Yes	(4) AA	IDEAL	61-957	**30ZX17**
	Battery Pack, Hard Carrying Case, Inductive Clamp, OLED Rotating Receiver, Test Lead Set, Transmitter	No	No	No	Yes	Yes	(4) AA	IDEAL	61-959	**30ZX18**
Wire Tracer										
0 to 600V AC/V DC	(12) Rechargeable Batteries, (3) Battery Chargers, Accessory Kit, Hard Carrying Case, Receiver, Signal Clamp, Test Lead, Transmitter	No	Yes	Yes	Yes	Yes	(12) AA NiMH	Amprobe	AT-6030	**460J50**
	(12) AA Batteries, Accessory Kit, Hard Carrying Case, Receiver, Test Lead, Transmitter	No	Yes	Yes	Yes	Yes	(12) AA	Amprobe	AT-6020	**460J49**
	(12) Batteries, Accessory Kit, Receiver, Soft Carrying Case, Test Lead, Transmitter	Yes	Yes	Yes	Yes	Yes	AA	Amprobe	AT-6010	**55AX71**

AMPROBE Leica Megger RIDGID

Underground Utility Locators

Receiver (locator) and transmitter combine to trace buried wire, pipe, and cable lines to help avoid injury or underground utility damage during excavation operations.

LOCATORS

Amprobe Underground Utilities Locator—Digital signal processing enables variable filtering, signal amplification, and noise reduction. Measures energized circuits with included inductive transmitter. Features fused voltage protection and 50/60 Hz passive tracing.

Leica Underground Utility Locator—Locates and traces energized lines up to 10 ft. deep. When used with the signal transmitter (Digitex), range can be over 5000 ft. and detect de-energized lines and pipes. Inductive and direct signal capabilities with 3 different frequencies.

Megger Split Box Pipe/Cable Locator—Finds buried manhole covers and traces energized or de-energized cables up to several miles. Peak and null detection. 126 kHz output frequency. Inductive transmitter allows measurement of energized circuits.

RIDGID Utility Locator—Antennas receive active and passive signals from all directions. Inductive and direct connection. Transmitter sold separately.

RIDGID High-Frequency Utility Locator—Can be configured with up to 30 frequencies. Continuously searches passive power and radio bands to locate and avoid unknown metallic lines. Traces energized lines and sondes (beacons) simultaneously. Inductive and direct coupling.

ACCESSORIES

Leica—Property connectors in 2VCX9 connect Signal Generator 2VCX5 to any standard 120V outlet to locate outside power supply. Service Tracer Mouse 2VCY1 is a dual-frequency standard sonde used with service locators and tracers to trace nonmetallic pipe. Signal Generator 2VCX5 includes connection cable set containing earth spike, and crocodile connection cable.

RIDGID Inductive Signal Clamp—Where direct connect is not possible, fits around 4" lines to apply a signal to cable or pipe. For use with RIDGID transmitters, sold separately.

498X84

2VCX4

3JG93

2YCA5

RIDGID Transmitters—Use with RIDGID utility locators to locate buried utility lines.

1DPH3 can transmit dual frequencies and audibly confirms good circuits; with two 10-ft. coil connectors. 1DPH4 displays line resistance, current flow, and power; with two 25-ft. coil connectors.

2YCA4 induces at 8 kHz and 33 kHz for longer trace lines and low-distortion locates. Displays line resistance and current flow; with grounding stake and two 10-ft. coil connectors.

Description	Depth Underground	Display	Audible Alert	Battery Type	Mfr. Model	Item No.
Underground Utility Locators						
Amprobe						
Underground Utiities Locator	20 ft	LCD	Yes	(6) AA Receiver, (8) D Transmitter	UAT-620	**498X84**
Leica						
Underground Utility Locator	Up to 10 ft	LED Signal Strength Display Gives Peak Reading When Unit is Directly Over Service, Depth Estimation	Yes	(6) AA Batteries	LEICA DD120	**2VCX4**
Utility Service Locator	Can Exceed 15 ft, Depending on Soil Conditions and Transmitter Output	LCD	Yes	(6) AA Batteries	DD120 DEPTH KIT	**54GE17**
Megger						
Split Box Pipe/Cable Locator	—	—	Yes	(6) C Batteries	656902	**3JG93**
RIDGID						
Underground Utility Locator	Can Exceed 15 ft, Depending on Soil Conditions and Transmitter Output	Backlit Mapping Display	Yes	(6) C Batteries	21893	**1DPH2**
		LCD Mapping Display With Continuous Depth, Tracing Line, And Proximity Signal Strength Indicators	Yes	(6) C Batteries	22163	**2YCA5**

Description	For Use With	Features	Operating Frequency	Powered By	Mfr. Model	Item No.
Underground Utility Locator Accessories						
Leica						
Property Connection Set	—	—	—	—	PROPERTY CONNECTION SET US	**2VCX9**
Service Tracer Mouse	—	—	33 kHz	—	MINI SONDE 8/33	**2VCY1**
Signal Generator	2VCX4 Service Locators, Mfr. No. 500i	Direct Connection, Induction, Use Signal Clamp	8, 33 kHz	(4) C Batteries	DA220 1 WATT	**2VCX5**
Carry Bag	DIGITRACE 50, DIGITRACE 80 Service Tracers, Mfr. No. DIGICAT 550i Service Locators, Mfr. No. DIGITEX 100T Signal Locator and Mfr. No. DIGITRACE 30	Fits Two Main Service Locating, Large Size, Tracing Instruments	—	—	850276	**2VCY2**
RIDGID						
Inductive Signal Clamp	All RIDGID SeekTech Line Transmitters, SeekTech SR-20, SR-24, SR-60 Receiver	Ergonomic Handle, Removable Coiled Cord	8 to 262 kHz	—	72963	**793K39**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Direct Connect Using Attached Clips, Induction from Optional Inductive Signal Clamp and Transmitter Coils	1, 8, 33 kHz	(6) C Batteries	21898	**1DPH3**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Direct Connect Using Attached Clips, Induction from Optional Inductive Signal Clamp and Transmitter Coils	0.128, 1, 8, 33 kHz	(8) D Batteries	21903	**1DPH4**
Transmitter	Mfr. No. SR-20/21893 and Mfr. No. SR-60/22163	Speed, Versatility	10 to 490 kHz	(6) D Batteries	49338	**2YCA4**

UEi TEST INSTRUMENTS

Cable Length Meter

Measures copper and aluminum cables, and covers the major wire gauges. Automatic temperature compensation; reads in feet and meters. Milliohm measurement capability measures from 15 to 30,000 ft. 5-yr. warranty.

Connector Type	Includes	Item No.
Kelvin Clip Leads	Abrasive Pad, Copper Calibration Bars, Soft Carrying Case, Test Leads	**29RM95**

Ferrous Metal Locators

CST/berger

Instruments locate iron, surveyors' markers, valve covers, and other ferrous objects underground, underwater, or in snow. Each includes soft case.

3XA25—LCD with digital bar graph. Sensitivity switch allows manual adjustment.

1ELK5 and 1ELK6 with Erase—Detect metals up to 15 ft. underground. Aluminum sensor tube allows use in various weather conditions. Erase button helps distinguish between target item and interfering items. With high-tech magnetic sensors and electronic balancing. LCD with digital numeric and bar graph displays, plus power line indicator. 1ELK5 analog bar graph allows you to locate visually.

Description	Mfr. Model	Item No.
Ferrous Metal Locator	19-550	**3XA25**
Magna-Trak MT202 Magnetic Locator	19-202SC	**1ELK5**
Magna-Trak 102 Magnetic Locator	19-557	**1ELK6**

1ELK6

41D940

1PX61

4GE84

6NZG4

4YE87

Combination Tachometers

EXTECH INSTRUMENTS · AMPROBE · MONARCH INSTRUMENT · Nidec SHIMPO

Handheld instruments offer surface and noncontact measurement choices. Each includes batteries. NIST models include certificate and calibration documents.

EXTECH

Tachometers and Laser Tachometers—Laser light source, except 8PMK7 and 22DC94 have visible light source. Each includes tip(s) and wheel for contact readings and reflective tape for noncontact.

41D940 and 41D941 also measure length.

Tachometers with Infrared Thermometer—Make contact/noncontact speed measurements and noncontact surface temperature measurements.

- IR temp. range -4° to 600°F

AMPROBE

Tachometer 6NGZ4—Makes contact/noncontact speed measurements with noncontact rpm. Infrared light source. Features selectable units in contact mode and data hold. Includes cone and funnel contact tips and reflective tape.

Tachometer 4FKR9—Measures rotational and surface speed, with selectable rpm/length units using the infrared beam or adapter. Includes 6 adapters, reflective tape, and carrying case.

- Meter/foot/inch length measurements

MONARCH INSTRUMENT

Laser Tachometer and Kit—Pocket Laser Tach 200 is a 32-function tachometer/ratemeter, totalizer/counter, and timer (stopwatch). Fixed decimal points. TTL compatible pulse output can trigger data collectors or stroboscopes. Accepts remote optical sensor 3WB47, sold separately on page 565. Tripod mountable.

Instrument 4YE86 includes 12" reflective tape. Kit 4YE87 adds remote contact assembly with concave and convex tips, 10cm linear scope wheel, 5-ft. reflective tape, and carrying case.

SHIMPO

Tachometers—Measure rotational, linear, and surface speed plus total length. 10-measurement memory. Complete with 2 cone tips, funnel tip, extension shaft, and carrying case. Speed wheel included: 6" with 21YD75 and 21YD76, 12" with 21YD77 and 21YD78.

Description	Speed (FPM)	Noncontact RPM Range	Contact RPM Range	RPM Accuracy	Memory	Display	Calibration Certificate	Working Distance	Mfr. Model	Item No.
Extech										
Laser Tachometers	0 to 6560	2 to 99,999	2 to 20,000	+/-0.05% +1 Digit	10 Data Sets	Backlit LCD	No	1.6 ft	RPM33	41D940
	0 to 6560	2 to 99,999	2 to 20,000	+/-0.05% +1 Digit	10 Data Sets	Backlit LCD	Yes	1.6 ft	RPM33-NIST	41D941
	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	6.5 ft	461995	1PX61
	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	6.5 ft	461995-NIST	2HZB9
Tachometers	0.20 to 6560	5 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	0.5 ft	461895	8PMK7
	0.20 to 6560	5 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	0.5 ft	461895-NIST	22DC94
Tachometer with Infrared Thermometer	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	No	6.5 ft	RPM10	4GE84
	0.20 to 6560	10 to 99,999	0.5 to 20,000	0.05% of Reading +1 Digit	Last/Min/Max	5 Digit LCD	Yes	6.5 ft	RPM10-NIST	2HZC1
Amprobe										
Tachometers	3 to 30,000	10 to 99,999	10 to 19,999	+/-1% of Reading +/-2 Digits	No	LCD	No	1 ft	TACH-10	6NZG4
	0.40 to 6550	1 to 99,999	1 to 19,999	+/-0.02% +/-1 Digit	Built in	LCD	No	2 ft	TACH-20	4FKR9
Monarch										
Laser Tachometers	0.16 to 6562	5 to 200,000	0.5 to 20,000	+/-0.01% of Reading	Last/Min/Max	5 Digit +5 Alpha Numeric LCD	Yes	25 ft	PLT200	4YE86
	0.16 to 6562	5 to 200,000	0.5 to 20,000	+/-0.01% of Reading	Last/Min/Max	5 Digit +5 Alpha Numeric LCD	Yes	25 ft	PLT200 KIT	4YE87
Shimpo										
Tachometers	0.40 to 12,500	6 to 99,999	0.8 to 25,000	+/-0.006% of Reading +/- 1 Digit	Last/Min/Max	5 Digit LCD	Yes	20 ft	DT-205LR	21YD75
	0.40 to 12,500	6 to 99,999	0.8 to 25,000	+/-0.006% of Reading +/- 1 Digit	Last/Min/Max	5 Digit LED	Yes	20 ft	DT-207LR	21YD76
	0.80 to 25,000	6 to 99,999	0.8 to 25,000	+/-0.006% of Reading +/- 1 Digit	Last/Min/Max	5 Digit LCD	Yes	20 ft	DT-205LR-S12	21YD77
	0.80 to 25,000	6 to 99,999	0.8 to 25,000	+/-0.006% of Reading +/- 1 Digit	Last/Min/Max	5 Digit LED	Yes	20 ft	DT-207LR-S12	21YD78
	0 to 6560	6 to 99,999	6 to 25,000	—	Last/Min/Max/10 user logged measurements, retained for 5 minutes	Digital LCD	Yes	6 ft	MT-200	45AE68
	0.40 to 12,500	6 to 99,999	1 to 25,000	—	1000 Readings	—	Available Separately	—	DT-2100	49VY90

1PX59

21YD68

Digital Contact Tachometers

EXTECH INSTRUMENTS · Nidec SHIMPO

Extech—Each includes interchangeable cone, flat tips, surface speed wheel, carrying case, and AA batteries.

- Digital
- Max./min. values

Shimpo—Measure rotational, linear, and surface speed plus total length. 10-measurement memory. Each includes 2 cone tips, funnel tip, extension shaft, speed wheel, carrying case, and AA batteries. 21YD66 and 21YD67 have a standard 6" speed wheel.

21YD68 and 21YD69 have a 12" wheel for enhanced accuracy with high-speed readings.

- Digital
- Last/max./min. recall
- 16 selectable units

Item	Speed (FPM)	Contact RPM Range	RPM Accuracy	Display	Calibration Certificate	Mfr. Model	Item No.
Extech							
Tachometer	0.20 to 6560	0.5 to 20,000	+/-0.05%	5 Digit LCD	No	461891	1PX59
	3 to 6560	10 to 20,000	+/-0.1% of Reading +2 Digits	—	No	461750	8PPJ5
Shimpo							
Tachometer	0.05 to 12,500	0.10 to 25,000	+/-0.006% of Reading +/- 1 Digit	5 Digit LCD	Yes	DT-105A	21YD66
	0.05 to 12,500	0.10 to 25,000	+/-0.006% of Reading +/- 1 Digit	5 Digit LED	Yes	DT-107A	21YD67
	0.10 to 25,000	0.10 to 25,000	+/-0.006% of Reading +/- 1 Digit	5 Digit LCD	Yes	DT-105A-S12	21YD68
	0.10 to 25,000	0.10 to 25,000	+/-0.006% of Reading +/- 1 Digit	5 Digit LED	Yes	DT-107A-S12	21YD69

1TZP5

5URHO

Noncontact Tachometers

EXTECH INSTRUMENTS · MONARCH INSTRUMENT · WESTWARD

Each includes reflective tape for targeting. 5URH0 also includes USB cable.

Extech—Employ a laser light source for noncontact rpm measurements from long distances. On-target indicator. With 9V battery.

- Max./min. values

Monarch Instrument—Pocket Tach 99 accepts tripod mount. With AA batteries.

- Autoranging
- Selectable max./min./last reading
- Fixed decimal points
- LED light source

Item	Noncontact RPM Range	RPM Accuracy	Display	Calibration Certificate	Working Distance	Mfr. Model	Item No.
Extech							
Laser Tachometer	2 to 99,999	+/-0.05%	5 Digit LCD	No	1.6 ft	461920	1TZP5
Tachometer with Counter	2 to 99,999	+/-0.05%	5 Digit LCD	Yes	1.6 ft	461920-NIST	6RGL0
Monarch							
Tachometer	5 to 99,999	+/-0.01% +/-1 Digit	5 Digit +5 Alpha Numeric LCD	No	3 ft	PT99	4YE85
Westward							
Tachometer	10 to 99,999	+/-0.04% +/-2 Digits	LCD	No	0.65 ft	5URH0	5URH0

Stroboscopes and Tachometers

EXTECH

Digital Stroboscope/Tachometer—Handheld instrument has xenon flashtube light source. Includes 6-ft. power cord and lamp.

FLUKE

Digital LED Stroboscope—High-intensity 7-LED array in high-efficiency, uniform-flash LED light source, which combines with digital pulse width modulation to return exceptionally sharp images at high speeds.

MONARCH INSTRUMENT

Rechargeable digital strobes provide continuous safe, cool operation. Fully backlit LCD. Each includes standard 120V charger for internal rechargeable battery. Battery life: LED 8 hr. and xenon 2 hr. Kits add spare lamp and carrying case.

Basic Stroboscopes and Kits—Digital control. Superbright LED or xenon flashtube light source.

Deluxe Stroboscopes and Kits—Multibutton keypads for x2/÷2 brightness adjust, visual phase shift, and tach mode. 8 to 10 hr. run time for LED. 3-hr. recharge time.

- Internal phase shift
- TTL input/output jacks
- Superbright LED or xenon flashtube light source

Phaser Stroboscopes and Kit—Allows degrees phase shift and time delay from external trigger. Multibutton keypad for advanced intuitive control. High-power charger/supply for continuous operation.

- External phase shift
- TTL input/output connectors
- Superbright LED or xenon flashtube light source

PLS Pocket Strobe and Kit—Provides a uniform light output for visual diagnostic inspection and rpm measurements. Features external input for remote triggering or tachometer mode, pulse output and memory for up to 5 present flash rates. 5- to 6-hr. run time.

SHIMPO

Stroboscope 787YX3—Compact LED scope has coarse/fine tuning and user-defined flash rate memory storage. 5-digit display.

5AY35

40JW34

36J797

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Digital Stroboscope Lamp	1UFK8, 1UFK9, 1ULF1 to 1ULF3	Monarch	L-1903	**1TC14**
Digital Stroboscope Lamp	461831, Mfr. No. 461830	Extech	461834	**5AY37**
Latching Carrying Case	1UFK8, 1UFK9, 1ULF1, 1ULF2	Monarch	CC-7	**1TC40**
Remote Optical Sensor	1UFL1 to 1UFL3	Monarch	ROS-P	**3WB47**

Item	Flashes per Minute	RPM Range	Res.	Flash Duration	Display	Power Req.	Mfr. Model	Item No.
Extech								
Digital Stroboscope	100 to 10,000	100 to 10,000	0.1 fpm	60 to 1,000 usec	4 Digit LED	115V AC 60 Hz	461830	**5AY35**
Fluke								
Digital LED Stroboscope	30 to 300,000	—	0.1 to 1.0 fpm	1 to 33,333 usec	LCD Alphanumeric	(3) AA Batteries	FLUKE-820-2	**40JW34**
Monarch								
Basic Battery LED Strobe	30 to 500,000	—	0.01 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6230-110	**36J793**
Basic Battery LED Strobe Kit	30 to 500,000	—	0.01 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6230-111	**36J794**
Basic Stroboscope	30 to 10,000	—	0.01 fpm	8 to 20 usec	6 Digit LCD	Rechargeable NiMH	6207-110	**1UFK8**
Basic Stroboscope Kit	30 to 10,000	—	1 fpm	8 to 20 usec	6 Digit LCD	Rechargeable NiMH	6207-111	**1UFK9**
Deluxe Battery LED Strobe Kit	30 to 500,000	0 to 500,000	0.01 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	DBL Kit	**36J796**
Digital Stroboscope	30 to 20,000	—	0.01 fpm	8 to 20 usec	6 Digit LCD	Rechargeable NiMH	6204-110	**1UFL1**
Digital Stroboscope	30 to 999,999	0 to 999,999	0.001 fpm	Adj. to 14°/1,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6241-020	**52VG66**
Digital Stroboscope Kit	30 to 20,000	5 to 250,000	0.01 fpm	8 to 20 usec	6 Digit LCD	Rechargeable NiMH	6204-111	**1UFL2**
Digital Stroboscope Kit	30 to 999,999	0 to 999,999	0.001 fpm	Adj. to 14°/1,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6243-011	**52VG63**
Digital Stroboscope Kit	30 to 999,999	0 to 999,999	0.001 fpm	Adj. to 14°/1,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6241-021	**52VG68**
Phaser Battery LED Strobe	30 to 500,000	0 to 500,000	0.01 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	PBL	**36J797**
Phaser Battery LED Strobe Kit	30 to 500,000	0 to 500,000	0.01 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	PBL Kit	**36J798**
Pocket LED Strobe	30 to 300,000	30 to 300,000	0.01 to 1.0 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	6235-110	**36J799**
Pocket LED Strobe Kit	30 to 300,000	30 to 300,000	0.01 to 1.0 fpm	Adj. to 14°/3,000 usec	LCD Alphanumeric	115/230 50/60 Hz	PLS Kit	**36J801**
Shimpo								
Battery Powered Stroboscope	60 to 12,000	0 to 12,000	0.1 fpm from 60 to 9,999 fpm, 1 fpm from 6,001 to 12,000 fpm	10 to 30 usec	5 Digit LED	100-240V AC 50/60 Hz	DT-735	**61HY65**
Digital Stroboscope	60 to 40,000	60 to 40,000	0.01 fpm, 0.1 fpm, 1 fpm		5 Digit Backlit LED	(4) AA Batteries	ST-1100	**787YX3**

⅛-DIN Panel Tachometers and Sensors

PANEL TACHOMETERS

Extech 5AY32—Permits rpm measurements of a 1-hole gear or disc, eliminating the need for special gears. Display updates once per sec. Resolution: 0.1 rpm.

Monarch Instrument 4KF46—Universal-input instrument for 2- and 3-wire sensors requires 1 pulse per revolution.

Monarch 5TDG6 and 5TDG7—Programmable universal-input instruments for 2- and 3-wire sensors measure mph, cm/sec., and other units, including linear rate of travel when using 2 sensors. 1 pulse per revolution. 2 setpoints for high/low alarm. RS-232C interface.

SENSORS

Extech Photoelectric Sensor—Generates a light beam with a 0.4" (10mm) target opening.

Proximity Sensors—For use with ferrous/nonferrous metals.

Extech 5AY33 measures a pulse when a metallic object (stud) passes by the sensor. Min. object detection size: 0.07" x 0.11" (2mm x 3mm).

Monarch 4KF50 has an inductive probe that allows use with a 0.5" metallic target (bolt head or keyway).

Monarch Magnetic Sensor—As distance increases, output signal decreases. Includes 8-ft. cable and mounting nut.

- For use with ferrous metal gear teeth; min. target size 0.001"

Monarch Remote Optical Sensor—Stainless steel sensor operates up to 3 ft. and 45° from reflective target. Includes mounting bracket and 12" reflective tape. Additional reflective tape sold separately.

- LED light source and on-target indicator
- For use with reflective tape

5TDG6

5AY33

3A145

Description	Accuracy	Power Req.	RPM	Mfr. Model	Item No.
Panel Tachometers					
Extech 4 Digit LED Panel Meters					
Panel Tachometer	+/-0.05%	110/220 V AC	5 to 99,990	461950	**5AY32**
Monarch 5 Digit LED Panel Meters					
Panel Tachometer	+/-1 RPM	115 V AC	5 to 99,999	ACT-1B/115	**4KF46**
Panel Tachometer, 0 to 5VDC Output	+/-0.0015%	100 to 240 V AC, 50/60 Hz	5 to 999,990	ACT-3X-1-1-3-1-1-0	**5TDG6**
Panel Tachometer, 4 to 20 mADC Output	+/-0.0015%		5 to 999,990	ACT-3X-1-1-4-1-1-0	**5TDG7**
Sensors					
Extech					
Photoelectric Sensor	—	—	5 to 6000	461957	**5AY34**
Proximity Sensor	—		5 to 36,000	461955	**5AY33**
Monarch					
Proximity Sensor	—	—	1 to 60,000	P5-11	**4KF50**
Magnetic Sensor	—		1 to 100,000	M-190W	**4KF49**
Remote Optical Sensor	—		1 to 250,000	ROS-W	**3WB46**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Extech			
Contact Adapters	461891, 461995, Mfr. No. RPM10	461899	**4GE86**
Reflective Tape	All Noncontact Tachometers	461937	**2FRU1** *
Monarch			
Latching Carrying Case	Mfr. No. PT99, PLT200 and PLT200 KIT	CC-11	**1WAD6**
Padded Pouch		CC-10	**1WAD2**
Reflective Tape	All Noncontact Tachometers	T-5	**3A145**
Shimpo			
Circumference Wheel	DT-105A, DT-107A, DT-205LR, DT-207LR	FPM-6	**21YD73**
Circumference Wheel	DT-105A-S12, DT-107A-S12, DT-205LR-S12, DT-207LR-S12	FPM-12	**21YD74**
Cone Adapter	DT-105A, DT-105A-S12, DT-107A, DT-107A-S12, DT-205LR, DT-205LR-S12, DT-207LR, DT-207LR-S12	CONE	**21YD70**
Contact Adapter	DT-205LR, DT-205LR-S12, DT-207LR, DT-207LR-S12	DT-ADP-200LR	**21YD79** †
Extension Shaft	DT-105A, DT-105A-S12, DT-107A, DT-107A-S12,	EXT-SHAFT	**21YD72**
Funnel Adapter	DT-205LR, DT-205LR-S12, DT-207LR, DT-207LR-S12	FUNNEL	**21YD71**

** Pkg. of 10. † Compatible only with Shimpo Combination Tachometers sold on page 564.*

D2978

D1773

1LYP5

Description	▶CHOOSE: Range	Item No.
Shimpo Digital Force Gauge		
FGE-HXY Series	0 to 200 lb • 0 to 500 lb	**D2978**
FGE-XY Series	0 to 0.5 lb • 0 to 1 lb • 0 to 2 lb • 0 to 5 lb • 0 to 10 lb • 0 to 20 lb • 0 to 50 lb • 0 to 100 lb	**D1783**
FGV Series	100N	**45AE77**
FGV Series	500N	**45AE78**
FGV Series	1000N	**45AE79**
FGV-XY Series	0.5 lb, 2 N, 200 g, 8 oz • 1 lb, 16 oz, 5 N, 500 g • 10 N, 1000 g, 2 lb, 32 Oz • 2 kg, 20 N, 5 lb • 10 lb, 5 kg, 50 N • 10 kg, 100 N, 20 lb • 20 kg, 200 N, 50 lb • 100 lb, 50 kg, 500 N • 100 kg, 1000 N, 200 lb	**D1773**
Shimpo Digital Torque Meter		
TNP Series	10.00 N-m, 1000 N-cm, 102.0 Kg-cm, 88.5 lb-in	**D1786**
Shimpo High Capacity Digital Force Gauge		
FGV-HXY Series	250 kg, 2500 N, 500 lb	**23MD82**
FGV-HXY Series	1,000 lb., 4448 N, 453.6kg	**23MD81**

Range	Accuracy	Mfr. Model	Item No.
Extech Digital Forge Gauge			
196 N, 20 kg, 44 Lb	—	475044-NIST	**9MZ93**
Extech Digital Force Gauge			
44 lb/20 kg/196 N	+/-0.5% + 2 Digits	475044	**1TZ42**
176 oz/5000 gm/49 N	+/-0.4% + 1 Digit	475040	**3ZH93**
176 oz/5000 gm/49 N	+/-0.4% + 1 Digit	475040-NIST	**6TNH9**
220 lb/100 kg/980 N	+/-0.5% + 0.1 Lb, 0.1 Kg or 0.4 N	475055	**1LYP5**
Extech AC Adapter			
AC Adapter		153117	**3ZH65**

Tension/Compression Digital Force Gauges

Measure standard and peak tension (pull) or compression (push) of mechanical items and systems.

SHIMPO

- 1000 Hz sampling rate
- LCD with reversible viewing direction

Gauges feature standard or peak measurement modes, force direction indication, and reversible keypad. Auto-Off can be disabled for continuous use with included AC adapter/charger. Each includes tension attachment (hook), compression attachments (chisel, flat, notched, and cone), metric/English thread adapter, extension rod, and hanger.

FGE-HXY and FGE-XY—Feature peak hold. Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lbs., kg, or Newton units (5- to 500- lb. range).

FGV-HXY and FGV-XY—With selectable High/Low comparator, onboard min./max./peak/avg./standard deviation, and continuous and single memory options. Software package, RS-232/USB/analog outputs, and USB cable for data export and analysis.

Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lb., kg, or Newton units (5- to 1000-lb. range).

EXTECH

- 5-digit LCD with reversible viewing direction

Feature peak hold and zero/tare functions. 0.2 (fast) and 0.6 sec. (slow) response time settings. Each includes AA batteries. Optional data acquisition software with RS-232 cable 1CLF1 and optional USB adapter cable 1CLF2, sold separately on Grainger.com

Force Gauge/Data Loggers and Gauges with 44-lb. and 176-oz. Capacity—Feature load cell measurement transducer with tension adapter (hook), compression adapters (flat, cone, and chisel), and 5" extension rod.

Force Gauge with 220-lb. Capacity—RS-232 interface for data export. Backlit display. Includes tension and compression adapters (hooks), S-type load cell, and 6½-ft. cable.

D1784

Tension/Compression Mechanical Force Gauges

- Accuracy: ±0.2%
- Dial indicator

Measure tension (pull) or compression (push) in real time or peak mode for assembly line quality control. 165-lb. overload protection safeguards against damage. Each includes compression attachments (flat, chisel, notched, and cone), tension attachments (hook, large hook, and large V-hook), extension rod, and carrying case.

▶Please choose: To order, specify range in lb. or kg from table.

▶CHOOSE: Pounds (lb.)		▶CHOOSE: Kilograms (kg.)	
2	30	1	10
5	50	2	20
10	100	3	30
20	—	5	50

Measuring Units	Item No.
lb	**D1784**
kg	**D1785**

1AEV9

13X135

13X134

38NJ28

6KX53

Heavy-Duty Vibration Meters

Batteries and carrying case are included.

EXTECH

Digital Vibration Meter Kits—Measure velocity, acceleration, and displacement. Feature Min./Max. and RMS or peak value measurement. With built-in RS-232 interface and LCD. Each includes remote vibration sensor with 3.9-ft. cable, magnetic mount, and holster. Can store and analyze data with optional software and cable 1CLF1, sold separately on Grainger.com.

Pen Vibration Meter—Measures RMS acceleration and velocity, with zero adjustment and low battery indicator. Housing is IP65 dust-tight and waterproof. Includes pin-tip probe, and magnetic mount.

Vibration Meter/Data Loggers 13X134 and 43Y050—Measure velocity, acceleration, and displacement. Feature Min./Max., RMS/Peak/Max. Hold modes, and selectable sampling rate from 1 to 3600 sec. Retain up to 99 readings, or use included 2G SD card to store datalogs for analysis. Include remote vibration sensor with magnetic mount on 47.2" cable.

MONARCH INSTRUMENT

Vibration Tester—Meter/stethoscope system measures acceleration, velocity, and acceleration enveloping. Features bearing gear check and LCD. Includes accelerometer with cable, headphones, magnetic base, and stinger.

TPI

Vibration Meters—Easy-to-use vibration monitoring and analysis tools display vibration signals. Automatically perform vibration analysis functions based on machine running speed to help diagnose faults such as unbalance, misalignment, and looseness. Designed for use with assets like pumps, motors, fans, or bearings.

Item	Accel. Range	Frequency Range (Hz)	Vel.	Display	Auto Power Off	Data Hold	Battery Type	NIST	Mfr. Model	Item No.
Extech										
Digital Vibration Meter Kit	2 to 656 ft/sq sec or 0.5 to 200 m/sq sec	10 to 1 K	0.02 to 7.87 in/sec or 0.5 to 200 mm/sec	LCD	Yes	Yes	9V	No	407860	**1AEV9**
	2 to 656 ft/sq sec or 0.5 to 200 m/sq sec	10 To 1 K	0.02 to 7.87 in/sec or 0.5 to 200 mm/sec	LCD	Yes	Yes	9V	Yes	407860-NIST	**6RGK2**
Pen Vibration Meter	20.39g, 200 m/sq sec, 656 ft/sq sec	10 to 1 K	19.99cm/s, 200mm/s, 7.87in/s	LCD	No	Yes	(4) AAA	No	VB400	**13X135**
Vibration Meter/ Datalogger	20.39g, 200 m/sq sec, 656 ft/sq sec	10 to 1 K	19.99cm/s, 200mm/s, 7.87in/s	Backlit LCD	With Disable	Yes	(6) AA	No	SDL800	**13X134**
	20.39g, 200 m/sq sec, 656 ft/sq sec	10Hz to 1 KHz	19.99cm/s, 200mm/s, 7.87in/s	Backlit LCD	With Disable	Yes	(6) AA	Yes	SDL800-NIST	**43Y050**
Monarch										
Vibration Tester	0.01 to 19.99g	10 to 10 K	0.01 to 19.99 in/sec, 0.1 to 199.9 mm/sec	LCD	—	Yes	(2) AA	—	Examiner 1000	**6KX53**
Test Products Intl.										
Vibration Meter	0.01 g to 50g	1 KHz to 10kHz Bearings, 2/10 Hz to 1 KHz ISO	0-25 mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9070	**38NJ28**
	0.01 g to 60g	1 KHz to 10kHz Bearings, 2/10 Hz to 1 KHz ISO	0-25 mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9080	**38NJ29**
Vibration Tester	1 to 1000 mV/g	10 Hz to 10 kHz	720mm/sec	Full Color OLED	Yes	No	(2) AA	Yes	9080K2	**400R50**

Coating Thickness Gauges

DeFelsko Inspection Instruments · EXTECH INSTRUMENTS · REED INSTRUMENTS

METAL TESTING

- Ferrous metals such as steel or iron
- Nonferrous metals such as brass, aluminum, or copper

Thickness Tester—Provides automatic substrate recognition: magnetic induction for ferrous substrates, eddy current measurement for nonferrous. Features single and continuous measuring modes; direct and group working modes with memory storage of 400 readings: 80 direct and 320 group. Includes user-settable high/low alarms, min./max./average measurement, and 1- or 2-point calibration. Comes with USB interface cable, software, calibration iron, calibration aluminum, precision standards, AAA batteries, and carrying case.

PosiTest DFT 2GE21 and 2GE22—Compact digital units include wrist strap, precision plastic shims, 2 AAA batteries, and hard carrying case. Features zero and 1-point calibration adjustments. Displays the average for up to 99 measurements. 2GE21 measures coatings on steel. 2GE22 measures coatings on steel and aluminum.

PosiTector 6000—Instruments feature no calibration adjustment required for most applications, 1- or 2-point adjustment. Average zero feature, mils/microns/mm switchable, adjustability to known thicknesses, and high-resolution mode. Provide audible and visible high/low limit alerts, calculations of average, standard deviation, and min./max. thickness. Standard models 12Y318 and 12Y320 have a 250-reading memory capacity. Advanced models 12Y319 and 12Y321 feature 100,000/1000 group reading memory capacity, Scan mode, on-screen batch annotation, and data transfer via USB, WFi, or Bluetooth. All models include rubber holster with belt clip, USB cable, PosiSoft software, nylon case, and NIST calibration certificate.

PosiPen—Pen-type, pull-off gauge is permanently calibrated to measure small steel parts, hot surfaces (up to 450°F), and hard-to-reach places. Includes leather pouch and calibration certificate.

PosiTest FM and GM—Permanently calibrated, mechanical pull-off gauges measure nonmagnetic coatings on steel only. Each includes wrist strap, leather pouch, and calibration certificate.

NONMETAL TESTING

PosiTector 200—Each includes plastic shims, protective rubber holster, 1 bottle ultrasonic couplant, USB cable, PosiSoft software, nylon carrying case, AAA batteries, and NIST calibration certificate.

Item	Measuring Range	Recording Cap.	Accuracy	Calibration Certificate	Battery Type	Brand	Item No.
Ferrous and Non-Ferrous Metals							
Electronic							
Coating Thickness Tester	0 to 1250 micron, 0 to 49 mil	400	+/-(3% reading + 0.04 mils) ferrous, +/-(3% reading + 0.06 mils) non-ferrous	—	AAA	Extech	**5GTH1**
	0 to 80 mil	250	+/-3% (7.9 to 39 mil), +/-4(0 to 7.8 mil), +/-5% (39.1 to 80 mil)	—	AAA	Extech	**40JK42**
Coating Thickness Gage	0 to 60 mil	—	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**5URV5**
	0 to 60 mil	10,000	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**5URV7**
PosiTest DFT Coating Thickness Gage	0 to 40	10 Records	+/-0.1 mil + 3%	—	—	Defelsko	**2GE22**
PosiTector 6000 Coating Thickness Gage	0 to 60	250	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**12Y320**
	0 to 60	100,000	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**12Y321**
Ferrous Metals							
Mechanical							
PosiPen Coating Thickness Gage	0.25 to 20	—	+/-10% + 0.1 mil	—	—	Defelsko	**2GE25**
PosiTest FM Coating Thickness Gage	0 to 80	—	+/-0.2 mil Up to 4 mil, +/-5% over 4 mil	—	—	Defelsko	**2GE23**
PosiTest GM Coating Thickness Gage	0 to 8	—	+/-0.04 mil Up to 0.8 mil, +/-5% over 0.8 mil	—	—	Defelsko	**2GE24**
Electronic							
Coating Thickness Gage	0 to 250 mil	250	+ (0.01 mm + 3%), +/-(0.01 mm + 1%) 0 to 2.5 mm, +/-(0.5 mils + 1%) 0 to 100 mils, +/-(0.5 mils + 3%), 100 mils, 2.5 mm	NIST	AAA	Defelsko	**54GC58**
	0 to 60 mil	—	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**5URV2**
PosiTector 6000 Coating Thickness Gage	0 to 60	250	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**12Y318**
	0 to 60	100,000	+/-(0.05 mil + 1%) Up to 2 mil, then +/-(0.1 mil + 1%)	NIST	AAA	Defelsko	**12Y319**
PosiTest DFT Coating Thickness Gage	0 to 40	10 Records	+/-0.1 mil + 3%	Yes	—	Defelsko	**2GE21**
Ultrasonic Thickness Gauge	0.05 in to 7.9 in	—	+/-0.004 in	No	—	Reed Instruments	**161F01**
	0.03 to 15.7 in (0.65 to 400mm)	500	0.002 in	—	—	Reed Instruments	**52ZK68**
Non Metals Such As Concrete, Wood And Composite							
PosiTector 200 Coating Thickness Gage	0.5 to 40	250	+/-0.1 mil + 3%	NIST	AAA	Defelsko	**1CTD1**

Ultrasonic Wall Thickness Gauges

DeFelsko Inspection Instruments · CorDEX · EXTECH INSTRUMENTS

DEFELSKO

PosiTector ultrasonic thickness gauges (UTGs) measure wall thickness of materials such as steel, aluminum, plastic, and more. Flip display for right-side-up viewing in-hand or on work table. Accuracy: ±0.001", ±0.03mm. 250-reading memory. Each includes 5 MHz probe, protective rubber holster, couplant, USB cable, PosiSoft software, AAA batteries, nylon carrying case, and calibration certificate. Conform to ASTM E797.

UTG C (Corrosion)—Measures the effects of corrosion or erosion on tanks, pipes, or any structure accessible on 1 side only. Excellent for rough surfaces and heavily corroded applications. Scan mode for quick inspection over a large area.

UTG M (Multiple Echo)—Features through-paint capability to measure the metal thickness of a painted structure without removing the coating.

CORDEX INSTRUMENTS

UT5000 Intrinsically Safe—Provides nondestructive testing and predictive maintenance on pipelines and fixed equipment in hazardous locations. Built-in RFID+ software tags measurements with their locations along the pipeline and then organizes the data to give engineers the view at any specific location. Corrosion mode helps identify thinning spots. Accuracy: ±0.05mm (0.002").

EXTECH

Compact, rugged meters for nondestructive thickness measurements. 20LK16 features a 5 MHz probe, dot-matrix display, high-impact housing, and ability to capture minimum thicknesses. IP54 rated. 20LK17 includes echo-to-echo option to reduce coating errors, B-scan, and vibrate on alarm. 20LK18 has a color LCD, live waveform, file compare feature as a real-time corrosion monitor, dynamic change of waveform color on alarm, and grid review of saved readings.

Description	Measuring Range	Measurement Rate	Recording Cap.	Item No.
DeFelsko				
UTG C1, Corrosion	0.040 to 5.0 in (1 to 125mm)	6 readings/sec	250	**1XTG3**
UTG M1, Through Paint	0.100 to 5.0 in (2.5 to 125mm)	3 readings/sec	250	**2DPP2**
CorDEX				
UT5000, Intrinsically Safe	0.160 - 4.00 in	1-8Hz (User Defined)	1000 Readings	**12M768**
Extech				
Primarily Steel	0.040 in to 20 in	4 to 20 sec	—	**20LK16**
Primarily Steel, Recording	0.040 in to 20 in	4 to 20 sec	5000 Readings	**20LK17**
Primarily Steel, Recording with Color Waveform	0.040 in to 20 in	4 to 20 sec	5000 Readings	**20LK18**

ASHCROFT
PIC GAUGES WINTERS

H8410

Dial Industrial Pressure Gauges with All-Stainless Steel Wetted Parts

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 20,000 psi at Grainger.com
- Stainless steel housing

Thread-mounted gauges have a bottom or back connection. Measure low and high positive pressures and are available in vacuum and compound ranges. Stainless steel wetted parts resist rust and corrosion. Commonly used for higher temperature process media when temperatures exceed 140°F (60°C).

Vibration-resistant gauges are available with liquid-filled cases or proprietary dry-case resistance technology for applications exposed to pulsation, spikes, and vibration.

Pic gauges have laminated safety glass lenses.

Ashcroft and Winters gauges have polycarbonate lenses.

Nominal Dial Size	Accuracy	Vibration Resistance	Brand	Item No.
Standard				
¼ in NPT Male - Bottom				
2½"	±1.0%	None	Ashcroft	**K4203**
3½"	±1.0%	None	Ashcroft	**K4204**
4"	±1.0%	Field-Fillable	Pic Gauges	**H8415**
6"	±1.0%	Field-Fillable	Pic Gauges	**H8414**
	±1.0%	Field-Fillable	Winters	**K4525**
½ in NPT Male - Bottom				
4"	±1.0%	Field-Fillable	Pic Gauges	**H8410**
6"	±1.0%	Field-Fillable	Pic Gauges	**H8409**
With Vibration Resistance				
¼ in NPT Male - Bottom				
2½"	±1.0%	Dry Case Vibration-Dampened	Ashcroft	**D1019**
	±1.5%	Liquid-Filled	Ashcroft	**K4201**
3½"	±1.0%	Dry Case Vibration-Dampened	Ashcroft	**D1022**
	±1.5%	Liquid-Filled	Ashcroft	**K4200**
4½"	±1.0%	Dry Case Vibration-Dampened	Ashcroft	**K4202**
¼ in NPT Male - Lower Back				
2½"	±1.0%	Dry Case Vibration-Dampened	Ashcroft	**D1021**
½ in NPT Male - Bottom				
4"	±2-1-2%	Liquid-Filled	Pic Gauges	**H8407**

D/U ASHCROFT

K4222

High-Accuracy Dial Process Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 10,000 psi at Grainger.com
- 4½" nominal dial size
- Glass lenses

High-accuracy movement for use in demanding chemical and petroleum process applications. Operate at temperatures up to 150°F and higher. Thread-mounted with a bottom connection. **Stainless steel wetted parts** resist corrosion, rust, and many processed chemicals.

Gauges with adjustable red max. hand allow setting a maximum set point against which the main pointer can be visually gauged.

Accuracy	Vibration Resistance	Case Material	Brand	Item No.
Stainless Steel Wetted Parts				
¼ in NPT Male - Bottom				
±0.5%	None	Stainless Steel	Duro	**K4221**
	None	Stainless Steel	Duro	**D7959**
½ in NPT Male - Bottom				
±0.5%	None	Stainless Steel	Duro	**D7959**
	None	PBT	Ashcroft	**K4222**
	Dry Case Vibration-Dampened	Phenolic	Ashcroft	**K4218**
	Liquid-Filled	Epoxy-Coated Aluminum	Ashcroft	**K4219**
Stainless Steel Wetted Parts with Red Max Hand				
¼ in NPT Male - Bottom				
±0.5%	None	Stainless Steel	Duro	**K4217**
Brass/Bronze Wetted Parts				
½ in NPT Male - Bottom				
±0.5%	None	Phenolic	Ashcroft	**K4220**
	Liquid-Filled	Epoxy-Coated Aluminum	Ashcroft	**K4216**

PIC GAUGES SPAN ASHCROFT

19RZ18

Dial Industrial Pressure Gauges with Non-Ferrous Process Connections

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 15,000 psi at Grainger.com (bar units also available)

Thread-mounted gauges have a bottom or back connection. Use when all stainless steel construction is not needed. Operate at temperatures up to 150°F and higher.

Vibration-resistant gauges have liquid-filled cases for applications exposed to pulsation, spikes, and vibration.

Span gauges have acrylic lenses.

Ashcroft and Pic gauges have polycarbonate lenses.

Accuracy	Gauge Wetted Parts	Case Material	Vibration Resistance	Brand	Item No.
¼ in NPT Male - Bottom					
2½" Dial Size					
±2-1-2%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**19RZ18**
±1.0%	Brass / Bronze	Zytel Nylon	Liquid-Filled	Span	**D7962** *
±1.0%	Brass / Bronze	Zytel Nylon	Liquid-Filled	Span	**D7964**
±1.0%	Stainless Steel / Bronze	304 Stainless Steel	None	Ashcroft	**K4670**
3½" Dial Size					
±1.0%	Stainless Steel / Bronze	304 Stainless Steel	None	Ashcroft	**K4671**
4" Dial Size					
±1.0%		Stainless Steel	Liquid-Filled	Pic Gauges	**H8400**
¼ in NPT Male - Center Back					
2½" Dial Size					
±2-1-2%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**19RZ22**
4" Dial Size					
±1.0%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**19RZ23**
½ in NPT Male - Bottom					
±1.0%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**H8404**
±1.0%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**H8403**
±1.0%	Copper	Stainless Steel	Liquid-Filled	Pic Gauges	**20TV64**

***** *Includes NIST Calibration Certificate.*

D/U WINTERS

Back-Flange
K4532

Front-Flange
K4537

Industrial & Process Panel-Mount Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 1000 psi at Grainger.com

Gauges feature a front- or back-flange panel mounting ring. Threaded connection attaches to the process, pipe, or tank. Process connection and connection location must be compatible with the type of application as well as the size of the panel cutout required. **K4534** has adjustable red max. pointer that allows setting a maximum set point against which the main pointer can be visually gauged.

Back-flange gauges securely mount flush with a wall, panel, or other surface.

Front-flange gauges have the flange positioned near or as part of the bezel and can be secured flush to the panel without protruding from it.

Duro gauges have glass lenses.

Winters gauges have polycarbonate lenses.

Nominal Dial Size	Accuracy	Case Material	Brand	Item No.
Back-Flange Panel-Mount with Brass/Bronze Wetted Parts				
¼ in NPT Male - Bottom				
4½"	±0.5%	Aluminum	—	**K4532**
Back-Flange Panel-Mount with Stainless Steel Wetted Parts				
4½"	±0.5%	Stainless Steel	—	**K4533**
	±1.0%	Stainless Steel	Winters	**K4534**
	±1.0%	Stainless Steel	Winters	**K4535**
6"	±0.5%	Stainless Steel	Duro	**K4536**
	±0.5%	Aluminum	Duro	**K4537**
	±1.0%	Stainless Steel	Winters	**K4538**
½ in NPT Male - Bottom				
6"	±0.5%	Aluminum	Duro	**442Y27**
Front-Flange Panel-Mount with Brass/Bronze Wetted Parts				
⅛ in NPT Male - Center Back				
2"	±2.5%	Stainless Steel	Winters	**K4539**
¼ in NPT Male - Center Back				
2"	±2.5%	Stainless Steel	Winters	**K4540**
2½"	±1.5%	Stainless Steel	Winters	**K4541**

Dial
D1017

Digital
K4233

3-A Certified Sanitary Pressure Gauges

- Available in pressure ranges from 0 to 300 psi at Grainger.com
- Stainless steel housing
- Stainless steel wetted parts

Use in food, beverage, dairy, and pharmaceutical applications where high standards of sanitation and washdown conditions are required. A flat process connection on the bottom allows for quick release of the gauge with minimal risk of contamination. Mount with a triclamp for quick clamping and removal in washdown environments.

Dial gauges are certified for the dairy industry, and select models have a liquid-filled case to dampen vibration and pulsation.

Digital gauges are available with battery power, or loop- and line-powered for applications where the gauge must remain continuously on.

Nominal Dial Size	Accuracy	Power Source	Vibration Resistance	Brand	Item No.
3-A Certified Sanitary - Dial					
1 ½ in Tri-Clamp - Bottom					
2½"	±1.50%	—	None	Ashcroft	**D1017**
	±1.50%	—	Liquid-Filled	Reotemp	**E5333**
	±2.00%	—	Liquid-Filled	Reotemp	**E5333**
2 in Tri-Clamp - Bottom					
3½"	±1.50%	—	None	Ashcroft	**D1018**
3-A Certified Sanitary - Digital					
1 ½ in Tri-Clamp - Bottom					
3"	±0.25%	Battery	—	Ashcroft	**K4233**
	±0.25%	4 to 20 mA Loop-Powered	—	Ashcroft	**K4234**
	±0.25%	12 to 36V DC Line-Powered	—	Ashcroft	**K4235**
2 in Tri-Clamp - Bottom					
3"	±0.25%	Battery	—	Ashcroft	**K4236**
	±0.25%	4 to 20 mA Loop-Powered	—	Ashcroft	**K4237**
	±0.25%	12 to 36V DC Line-Powered	—	Ashcroft	**K4238**

Blue
D1382

Dial Pressure Gauges with Color-Coded Cases

- Available in pressure ranges from 0 to 400 psi at Grainger.com
- 4" dial
- Plastic housing
- Brass/bronze wetted parts
- ¼" NPT male bottom connection
- Polycarbonate lenses

Gauges are available in a variety of case colors to allow for easy identification and organization of lines or processes.

Accuracy	▶CHOOSE: Case Color	Brand	Item No.
±2-1-2%	Black, Blue, Green, Red, Yellow	—	**D1382**
±1.0%	Black, Blue, Red, Yellow	Winters	**K4215**

G5751

H4302

G5753

D8583

Digital Industrial & Process Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 5000 psi at Grainger.com
- Plastic housing

Digital LCD shows numeric readings in a variety of selectable engineering pressure units. Threaded bottom connection. Gauges should be compatible with the process media and necessary grade of accuracy required.

G5751 gauges provide readings on digital LCD in 9 selectable units of measure. Require 9V battery (not included).

Dwyer gauges have a 4-digit LCD with selectable engineering units of measure and digital push-button zero. Auto shut-off to conserve battery life; batteries included. **K4240 and K4246** include protective rubber boot. **K4245 and K4247** have a 4-button keypad for advanced features including peak and valley, tare or auto-zero, and conversion of pressure units.

SSI gauges contain a piezoresistive pressure sensing element, signal conditioning circuitry, stainless steel input pressure port, and 4-digit backlit LCD with selectable units: bar, Mpa, and psi. Readings updated 3 times per sec. Operate on 9V battery with battery-saver mode.

Ashcroft gauges have a 5-digit LCD to show readings in 9 selectable units of measure. 20-segment bar graph display. Include batteries.

Weiss gauges have a 4-digit LCD for 4 selectable units of measure plus averaging. Powered by a solar cell on the case housing. Run continuously on as little as 10 lux (1 foot-candle) of ambient light. IP65 weatherproof housing.

Nominal Dial Size	Accuracy	Gauge Wetted Parts	Brand	Item No.
For Dry Air & Gases				
¼ in NPT Male - Bottom				
2½"	±1.00%	Stainless Steel / Ceramic	—	**G5751**
	±1.00%	Stainless Steel / Silicon	Dwyer	**H4302**
	±1.00%	Stainless Steel / Silicon	SSI	**K4239**
3"	±0.50%	Stainless Steel / Silicon	Dwyer	**K4240**
For Liquids & Gases				
¼ in NPT Male - Bottom				
2½"	±0.25%	Stainless Steel	Ashcroft	**K4243**
	±0.25%	Stainless Steel	Ashcroft	**K4244** *
	±0.50%	Stainless Steel	Ashcroft	**G5753**
	±1.00%	Stainless Steel / Silicon	SSI	**K4241**
3"	±0.25%	Stainless Steel	SSI	**K4242**
	±0.25%	Stainless Steel	Dwyer	**K4247**
	±0.50%	Stainless Steel	Dwyer	**K4245**
	±0.50%	Stainless Steel / Silicon	Dwyer	**K4246**
	±1.00%	Stainless Steel / Silicon	Dwyer	**K4248**
Light-Powered for Liquids & Gases				
¼ in NPT Male - Bottom				
4½"	±0.50%	Stainless Steel / Ceramic	Weiss	**D8582**
½ in NPT Male - Bottom				
4½"	±0.50%	Stainless Steel / Ceramic	Weiss	**D8583**

** Includes calibration certificate.*

D8578

Digital Pressure Gauges with Transmitters

- Available in pressure ranges from 0 to 5000 psi at Grainger.com
- 4 to 20mA DC output
- Stainless steel wetted parts

Convert pressure readings into electrical signals that are transmitted to a receiver, control panel, or other system. Digital LCD display with selectable units of measure. Can be used for on-the-spot readings, transmitting readings to external sources, and to alert technicians when a designated set point is met. Commonly used in fixed installations to monitor spikes or drops in pressure or when a sudden change requires an automated or immediate response.

Light-powered gauges have a solar cell that requires a minimum level of ambient light. Ideal for applications that require continuous monitoring, with no battery changes needed.

Sanitary gauges have a triclamp process connection and diaphragm sensor. Commonly used in food, beverage, dairy, pharmaceutical, biotech, and medical manufacturing applications where sanitation and risk of contamination are a concern.

Nominal Dial Size	Accuracy	IP/NEMA Rating	Power Source	Brand	Item No.
Digital Pressure Gauges with Transmitters					
¼ in NPT Male - Bottom					
3"	±0.25% of Full Scale	IP66 ; NEMA 4X	12 to 24V AC, 12 to 24V DC	Dwyer	**D1799**
3"	±0.25% of Full Scale	IP65	12 to 36V DC, 4 to 20 mA Loop	Ashcroft	**D8578**
3"	±0.25% of Full Scale	IP65 ; NEMA 4X	8 to 30 V DC	SSI	**K4249**
Light-Powered Digital Pressure Gauges with Transmitters					
4½"	±0.5% of Full Scale	IP65	<10 Lux Rating, 9 to 35V DC	Weiss	**D8584**
½ in NPT Male - Bottom					
4½"	±0.5% of Full Scale	IP65	<10 Lux Rating, 9 to 35V DC	Weiss	**D8585**
Sanitary Digital Pressure Gauges with Transmitters					
1 ½ in Triclamp - Bottom					
3"	±0.25% of Full Scale	—	24 to 36V DC with Optional Battery Backup	Lumenite	**K4250**
2 in Triclamp - Bottom					
3"	±0.25% of Full Scale	—	24 to 36V DC with Optional Battery Backup	Lumenite	**K4251**

Light-Duty Dial Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 5000 psi at Grainger.com
- Accuracy: ±3-2-3%
- Acrylic lenses

Thread-mounted gauges have a bottom or back connection. Use for most general purpose pressure measurement and monitoring applications.

Gauges with stainless steel cases are corrosion-resistant and suitable for outdoor use or harsh conditions. Wetted parts are stainless steel.

Gauges with plastic cases have brass/bronze wetted parts.

Vibration-resistant gauges have a liquid fill that reduces pulsation and pointer vibration.

Dial Size	Case Material	STANDARD Item No.	VIBRATION RESISTANT Item No.
⅛ in NPT Male - Bottom			
1½"	304 Stainless Steel	**D1353**	**D1355**
	ABS Plastic	**D1334**	—
⅛ in NPT Male - Center Back			
1½"	304 Stainless Steel	**D1354**	**D1356**
	ABS Plastic	**D1335**	—
¼ in NPT Male - Bottom			
2"	304 Stainless Steel	**D1357**	**D1359**
	ABS Plastic	**D1338**	—
2½"	304 Stainless Steel	**D1362**	**D1364**
	ABS Plastic	**D1343**	—
3½"	304 Stainless Steel	**D1366**	**D1368**
	ABS Plastic	**D1348**	—
¼ in NPT Male - Center Back			
2"	304 Stainless Steel	**D1358**	**D1361**
	ABS Plastic	**D1339**	—
2½"	304 Stainless Steel	**D1363**	**D1365**
	ABS Plastic	**D1344**	—
3½"	304 Stainless Steel	**D1367**	**D1369**
	ABS Plastic	**D1349**	—

Bottom Connection

D7963

Pressure Gauges with Diaphragm Seal for Challenging Media

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 7500 psi at Grainger.com

Paired external diaphragm seal creates an impermeable barrier between the process media and the wetted parts of the gauge. Seal resists harsh and corrosive chemicals, prevents clogs from challenging or loaded media, and protects the gauge from freezing with low-temperature media.

316 SS Mini Seal gauges feature a mini-isolator diaphragm seal. The diaphragm protects the gauge from damage and contamination. Use with applications such as processing wastewater or wood pulp.

Freeze and Clog-Resistant Internal Seal gauges have a Buna-N antifreeze/anticlog barrier which isolates wetted materials from service media. Ideal for use with low-temperature process media as well as materials like wastewater or wood pulp.

Nickel Alloy Mini Seal gauges are commonly used for applications requiring protection from solids and chemicals like chlorine, sulfuric acid, and hydrofluoric acid.

Themoplastic Seal gauges are built to isolate and protect pressure instruments against clogging or contamination due to suspended solids or highly viscous fluids.

Nominal Dial Size	Accuracy	Wetted Parts Materials	Gauge Case Liquid	Seal Fill Liquid	Brand	Item No.
Gauge with 316 SS Female-Threaded Mini Seal						
¼ in NPT Male - Bottom						
2½"	±2-1-2%	316 Stainless Steel	None	Glycerin	Pic Gauges	**K4224**
	±2-1-2%	316 Stainless Steel	Glycerin	Glycerin	Pic Gauges	**K4224**
	±1.50%	316L Stainless Steel	None	Glycerin	Ashcroft	**D0988**
¼ in NPT Female - Bottom						
2½"	±1.50%	316L Stainless Steel	None	Glycerin	Ashcroft	**D0988**
	±1.60%	316 Stainless Steel	Glycerin	Mineral Oil	Kodiak	**K4223**
¼ in NPT Female - Lower Back						
2½"	±1.50%	316L Stainless Steel	None	Glycerin	Ashcroft	**D0989**
Gauge with 316 SS Male-Threaded Mini Seal						
¼ in NPT Male - Bottom						
2½"	±1.60%	316 Stainless Steel	Glycerin	Mineral Oil	Kodiak	**K4225**
	±2-1-2%	316 Stainless Steel	None	Glycerin	Pic Gauges	**K4226**
	±2-1-2%	316 Stainless Steel	Glycerin	Glycerin	Pic Gauges	**K4226**
Gauge with Freeze- & Clog-Resistant Internal Seal						
2½"	±1.00%	Copper Alloy	Glycerin	Instrument Oil	Span	**D7963**
Gauge with Nickel Alloy C-276 Mini Seal						
½ in NPT Male - Bottom						
4½"	±1.00%	316L Stainless Steel	None	Halocarbon	Ashcroft	**K4227**
Gauge with Thermoplastic Seal						
¼ in NPT Female - Bottom						
2½"	±1.60%	Stainless Steel	Glycerin	Mineral Oil	Kodiak	**K4228**
¼ in NPT Male - Bottom						
2½"	±2-1-2%	316 Stainless Steel	None	Glycerin	Pic Gauges	**K4229**
	±2-1-2%	316 Stainless Steel	Glycerin	Glycerin	Pic Gauges	**K4229**
Low Pressure Gauge with 316 SS Mini Seal						
¼ in NPT Female - Bottom						
2½"	±1.60%	316 Stainless Steel	Glycerin	Mineral Oil	Kodiak	**K4230**
¼ in NPT Male - Bottom						
2½"	±2-1-2%	316 Stainless Steel	None	Glycerin	Pic Gauges	**K4231**
Process Gauge with 316L SS Mini Seal						
½ in NPT Male - Bottom						
4½"	±1.00%	316L Stainless Steel	None	Glycerin	Ashcroft	**K4232**

Front Flange Panel-Mount Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 600 psi at Grainger.com

Front flange allows gauges to fit securely into a panel cutout using mounting bolts on the outer flange. Fit flush with the panel or the back of the bezel flush with the panel. Commonly used for general purpose measurement and monitoring applications.

D1373 and D1374 gauges have a polycarbonate lens and brass/bronze wetted parts.

G3996 gauges have a glass lens.

Bottom Connection G3996

Nominal Dial Size	Accuracy	Gauge Wetted Parts	Case Material	Item No.
⅛ in NPT Male - Center Back				
2½"	±3-2-3%	—	Steel	**D1373**
¼ in NPT Male - Center Back				
2½"	±3-2-3%	—	Steel	**D1374**
¼ in NPT Male - Bottom				
4½"	±1.0%	Copper	Nylon	**G3996**

U-Clamp Panel-Mount Gauges

D1377

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 3000 psi at Grainger.com
- Steel housing
- Brass/bronze wetted parts

U-clamp on the back allows gauges to fit securely into a panel cutout. Fit flush with the panel or the back of the bezel flush with the panel. Winters gauges have acrylic lenses; all others have polycarbonate lenses. Commonly used for general purpose pressure measurement and monitoring applications.

Nominal Dial Size	Accuracy	Brand	Item No.
¼ in NPT Male - Center Back			
2½"	±3-2-3%	—	**D1379**
	±2-1-2%	Winters	**K4520**
3½"	±3-2-3%	—	**D1381**
	±2-1-2%	Winters	**K4521**
2"	±3-2-3%	—	**D1377**
	±2-1-2%	Winters	**K4522**
⅛ in NPT Male - Center Back			
2½"	±3-2-3%	—	**4UA27**
2"	±3-2-3%	—	**D1376**
	±2-1-2%	Winters	**K4523**

Lead-Free Pressure Gauges for Drinking Water

J1380

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 1000 psi at Grainger.com
- Brass/bronze wetted parts

Certified to NSF-61-372 for low-lead compliance and safe for use in potable water applications.

Liquid-filled gauges are intended for harsh environments and high-vibration applications such as pumps that will be in contact with drinking water.

J1382

Nominal Dial Size	Accuracy	Case Material	Item No.
General-Purpose Lead-Free Brass for Drinking Water			
⅛ in NPT Male - Bottom			
1½"	±3-2-3%	Steel	**J1377**
2"	±3-2-3%	Steel	**J1378**
¼ in NPT Male - Bottom			
2"	±3-2-3%	Steel	**J1379**
2½"	±3-2-3%	Steel	**J1380**
4"	±3-2-3%	Steel	**K4524**
¼ in NPT Male - Center Back			
2"	±3-2-3%	Steel	**J1387**
2½"	±3-2-3%	Steel	**J1388**
Liquid-Filled Lead-Free Brass for Drinking Water			
¼ in NPT Male - Bottom			
2½"	±1.5%	304 Stainless Steel	**J1382**
4"	±1.5%	304 Stainless Steel	**J1383**

Fire Sprinkler System Pressure Gauges

38VL10

- Accuracy: ±3-2-3%
- 3½" dial
- Plastic housing
- Brass/bronze wetted parts
- Polycarbonate lenses

Specially designed to measure air, water, or both air and water in fire sprinkler systems and fire fighting equipment. UL Certified and FM Approved for use in the US and Canada.

Compatible Process Media	Pressure Range	Std.	Brand	Item No.
¼ in NPT Male - Bottom				
Air	0 to 80 psi	ASME B40.100, CRN Registered, Factory Mutual, UL-393 for USA and Canada	Winters	**38VL10**
	0 to 80 psi	ASME B40.100, CRN Registered, Factory Mutual, UL-393 for USA and Canada	Ashcroft	**5WJ62**
Water	0 to 300 psi	ASME B40.100, CRN Registered, Factory Mutual, UL-393 for USA and Canada	Winters	**38VL11**
Air, Water	0 to 300 psi	ASME B40.100, CRN Registered, Factory Mutual, UL-393 for USA and Canada	Winters	**38VL12**
	0 to 300 psi	UL 393	Ashcroft	**5WJ63**

High-Accuracy Gauges for Boiler & Control Rooms

Stainless Steel

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 1000 psi at Grainger.com
- Accuracy: ±0.5%; except K4682 is ±1.0%
- Brass/bronze wetted parts
- Glass lenses

Heavy-duty industrial gauges are used to monitor system pressure for boiler and control rooms. Measure pressure in air, steam, oil, and fresh water systems.

Gauges with adjustable red maxi-pointer allow setting a maximum set point against which the main pointer can be visually gauged.

Nominal Dial Size	▶CHOOSE: Case Finish	Case Material	Adjustable Pointer	Brand	Item No.
¼ in NPT Male - Bottom					
4½"	—	Cast Aluminum	—	—	**D8433**
	Painted, Polished	Aluminum	—	Winters	**K4526**
	Polished	Aluminum	Adjustable Maxi Pointer	Winters	**K4527**
	—	304 Stainless Steel	—	Winters	**K4682**
6"	Painted, Polished	Aluminum	—	Winters	**K4528**
½ in NPT Male - Bottom					
4½"	Polished	Aluminum	—	Winters	**491A83**
	Polished	Aluminum	Adjustable Maxi Pointer	Winters	**491A91**

Tridicator Boiler Gauges

- Pressure accuracy: ±3-2-3%
- Temp. accuracy: ±3% full scale
- Steel housing

Measure pressure and temperature in °F and °C with dual scales on a single dial. Threaded connection on the stem houses a bimetal temperature element which is used to insert the gauge into the process. Commonly used in boilers and hydronic systems.

Back Connection 4CFC3

Pressure Range	Temperature Scale Range	Nominal Dial Size	Gauge Wetted Parts	Stem Insertion Length	Stem Extension Length	Brand	Item No.
¼ in NPT Male - Center Back							
0 to 75 psi	60° to 260°F / 20° to 120°C	2½"	Brass / Bronze	1.59"	1"	—	**4CFC3**
	60° to 260°F / 20° to 120°C	2½"	Brass / Bronze	1.59"	1.89"	—	**4CFC4**
½ in NPT Male - Bottom							
0 to 100 psi	70° to 320°F / 20° to 160°C	3"	Copper	2"	0.32"	Pic Gauges	**19RZ41**
0 to 200 psi	70° to 320°F / 20° to 160°C	3"	Copper	2"	0.32"	Pic Gauges	**19RZ43**
0 to 75 psi	60° to 260°F / 20° to 120°C	3¹¹⁄₁₆"	Brass / Bronze	2.06"	1.48"	—	**4CFC8**
0 to 200 psi	80° to 320°F / 30° to 160°C	3¹¹⁄₁₆"	Brass / Bronze	2.06"	1.48"	—	**4CFD1**
½ in NPT Male - Center Back							
0 to 100 psi	70° to 320°F / 20° to 160°C	3"	Copper	2"	0.32"	Pic Gauges	**19RZ42**
0 to 200 psi	70° to 320°F / 20° to 160°C	3"	Copper	2"	0.32"	Pic Gauges	**19RZ44**
½ in NPT Male - Lower Back							
0 to 75 psi	60° to 260°F / 20° to 120°C	3¹¹⁄₁₆"	Brass / Bronze	2.06"	1.4"	—	**4CFC7**
0 to 200 psi	80° to 320°F / 30° to 160°C	3¹¹⁄₁₆"	Brass / Bronze	1.4"	1.4"	—	**4CFC9**

Scan. Order. Done.
Details on page A1.

K4542

G3997

Low Pressure Gauges

- Available in pressure ranges from 0 to 200 in wc; 0 to 10 psi; and 0 to 160 oz/in^2 at Grainger.com

Gauges provide highly sensitive low pressure measurements.

Heavy-duty industrial and process gauges have a solid-front case with adjustable movement. Diaphragm sensor. Commonly used for oil, gas, chemical, water, and wastewater pressure control environments.

Inert gas gauges are used to measure inert or nonexplosive gases. Copper alloy diaphragm sensor. Chemical- and corrosion-resistant.

Natural gas gauges are suited for natural gas and other noncorrosive gases. Pic gauges have a capsule type sensor. Winters and Ashcroft gauges have diaphragm sensors.

Nominal Dial Size	Accuracy	Case Material	Gauge Wetted Parts	Brand	Item No.
For Heavy-Duty Industrial & Process Applications					
¼ in NPT Male - Bottom					
4½"	±2-1-2%	Phenolic	Brass	Ashcroft	**K4542**
½ in NPT Male - Bottom					
4½"	±2-1-2%	Phenolic	Stainless Steel	Ashcroft	**K4543**
For Inert Gases					
¼ in NPT Male - Bottom					
2½"	±1.5%	Steel	Copper	—	**G3997**
	±2.5%	Steel	Copper	—	**G3997**
¼ in NPT Male - Center Back					
2½"	±1.5%	Steel	Copper	—	**G3998**
	±2.5%	Steel	Copper	—	**G3998**
For Natural Gas & Other Gases					
¼ in NPT Male - Bottom					
2½"	±2-1-2%	Stainless Steel	Copper	Pic Gauges	**19RZ45**
	±2-1-2%	Stainless Steel	Stainless Steel	Pic Gauges	**19RZ48**
	±3-2-3%	Steel	Brass / Bronze	Winters	**K4546**
	±2-1-2%	Polysulfone	Brass / Beryllium Copper	Ashcroft	**K4548**
4"	±2-1-2%	Stainless Steel	Stainless Steel	Pic Gauges	**K4547**
4½"	±2-1-2%	Phenolic	Stainless Steel	Pic Gauges	**19RZ53**
¼ in NPT Male - Center Back					
2½"	±2-1-2%	Stainless Steel	Copper	Pic Gauges	**19RZ46**
	±3-2-3%	Steel	Brass / Bronze	Winters	**K4544**
½ in NPT Male - Bottom					
4"	±2-1-2%	Stainless Steel	Copper	Pic Gauges	**19RZ47**
	±2-1-2%	Stainless Steel	Stainless Steel	Pic Gauges	**K4545**

G3995

K4530

HVAC & Boiler Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 1000 psi at Grainger.com
- Accuracy: ±1.0%

Thead-mounted heavy-duty gauges are used in industrial and commercial boilers, HVAC, and hydronic system applications.

Commercial gauges are used in HVAC applications to monitor system pressure. A good option for steam, hot water, and chilled water pumping systems. Acrylic lenses.

Industrial gauges are compatible with plumbing and HVAC contractor applications. Commonly used in dry, damp air, and in liquid water applications with nonpotable water. Glass lenses.

Nominal Dial Size	Case Material	Gauge Wetted Parts	Brand	Item No.
For Commercial Air, Water & Steam Services				
¼ in NPT Male - Bottom				
4½"	Stainless Steel	Copper	—	**G3995**
	Stainless Steel	Brass / Bronze	Winters	**K4529**
For Industrial Plumbing & Heating				
¼ in NPT Male - Center Back				
3½"	Steel	Brass / Bronze	Winters	**K4530**
¼ in NPT Male - Bottom				
4½"	Aluminum	Brass / Bronze	Winters	**K4531**

Grade 3A
D0803

Digital Pressure Calibrator
K4549

Test Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 10,000 psi at Grainger.com
- ¼" NPT male bottom connection

Gauges offer high accuracy and are commonly used for laboratory and inspection applications.

Dial gauges are suited for continuous use or as portable pocket test gauges for on-the-spot checks and inspections. Designed so that the internal movement of the gauge provides accuracy and repeatability.

Digital gauges offer high accuracy and allow users to toggle between engineering units of measure.

Pneumatic calibrator gauges are used for laboratory calibration applications where maximum accuracy and precision are required.

Nominal Dial Size	Gauge Wetted Parts	IP/NEMA Rating	▶CHOOSE: Case Color	Brand	Standard Gauge Item No.	Standard Gauge Case Material	With Calibration Certificate Item No.	With Calibration Certificate Case Material
Grade 2A Dial (+/-0.5% Accuracy)								
3"	Stainless Steel	Not Rated	Stainless Steel	Ashcroft	**D0799**	316 Stainless Steel	**D0801**	316 Stainless Steel
Grade 3A Dial (+/-0.25% Accuracy)								
4½"	Brass / Bronze	Not Rated	Black	Ashcroft	**D0803**	Epoxy Coated Aluminum	**D0805**	Aluminum
	Monel	Not Rated	Black	Ashcroft	**D0812**	Epoxy Coated Aluminum	**D0813**	Aluminum
6"	Brass / Bronze	Not Rated	Black	Ashcroft	**D0808**	Epoxy Coated Aluminum	**D0811**	Aluminum
	Monel	Not Rated	Black	Ashcroft	**D0814**	Epoxy Coated Aluminum	**D0815**	Aluminum
Grade 3A Digital (+/-0.25% Accuracy)								
3"	Stainless Steel	IP65	Gray	Ashcroft	**D8577**	Stainless Steel	—	—
4½"	Stainless Steel	IP65	Black	Ashcroft	**D8579**	Thermoplastic	—	—
Grade 4A & Equivalent Digital (+/-0.1% Accuracy)								
3"	Stainless Steel	IP65	Silver	Ashcroft	**K4551**	Stainless Steel	**K4552**	Stainless Steel
Grade 5A & Equivalent Digital (+/-0.05% Accuracy)								
3"	Stainless Steel	IP65	Gray, Silver	Ashcroft	—	—	**D8581**	Stainless Steel
3¾"	Stainless Steel	IP67	Silver	Fluke	—	—	**K4553**	Cast Znal
	Stainless Steel	IP67	Yellow	Fluke	—	—	**K4554**	Cast Znal
	Stainless Steel	Not Rated	Yellow	Fluke	—	—	**K4554**	Cast Znal
Digital Pneumatic Pressure Calibrator Gauges (+/-0.02% Accuracy)								
4¼"	Zinc Alloy	Not Rated	Gray	Fluke	**K4549**	Zinc Alloy	**K4550**	Zinc Alloy

Pressure Gauge or Kit Type	Nominal Dial Size	Accuracy	Wetted Parts Material	Brand	Item No.
For Commercial & Residential Water Lines					
¾ in NPT Female					
Air-Over-Water-(AOW)-Test-Gauge	2"	±3-2-3%	Brass / Phosphor Bronze	Winters	**38VL20**
¾ in FGHT - Top					
Water-Line-Pressure-Test-Kit	2"	±3-2-3%	Copper Alloy HPb59-1 / Copper Alloy	Duro	**18C829**
	2"	±3-2-3%	Copper Alloy HPb59-1 / Copper Alloy	Duro	**18C830**
¾ in Swivel Hose Female - Top					
Water-Line-Pressure-Test-Gauge	2½"	±3-2-3%	Brass / Phosphor Bronze	Winters	**489F24**
¾ in FGHT Female - Top					
Potable-Water-Line-Test-Gauge-w/Max-Pointer	2½"	±3-2-3%	Lead Free Brass / Phosphor Bronze	Winters	**20JN40**
	2½"	±3-2-3%	Lead Free Brass / Phosphor Bronze	Winters	**20JN41**
Potable-Water-Line-Pressure-Test-Gauge	2½"	±3-2-3%	Lead Free Brass / Phosphor Bronze	Winters	**20JN42**
	2½"	±3-2-3%	Lead Free Brass / Phosphor Bronze	Winters	**20JN43**
NPT - Top					
Water-Line-Pressure-Test-Gauge	2½"	±3-2-3%	Brass / Phosphor Bronze	Winters	**489F23**
For Low-Pressure Gas & Water					
½ in NPT Female, ½ in NPT Male, ¾ in NPT Female, ¾ in NPT Male					
Low-Pressure-Gas-&-Water-Test-Kit	2",-2-1/2"	±3-2-3%	Brass	Winters	**38VL22**
NPT - Bottom					
Low-Pressure-Gas-&-Water-Test-Gauge	4"	±1.0%	Brass / Bronze	Wahl	**K4555**
For Low-Pressure Gas Lines					
⅛ in NPT Male - Bottom					
Low-Pressure-Gas-Line-Test-Kit	2½"	±1.5%	Brass	Yellow Jacket	**K4559**
	2½"	±3.00%	Brass	General	**8U889**
¼ in Hose Barb - Bottom					
Low-Pressure-Gas-Line-Test-Kit	2½"	±3-2-3%	Brass / Phosphor Bronze	Winters	**K4556**
	2½"	±3-2-3%	Brass / Phosphor Bronze	Winters	**489H04**
½ in NPT Female					
Low-Pressure-Gas-Line-Test-Kit	2½"	±3-2-3%	Brass	Winters	**38VL23**
Hose Barb - Bottom					
Low-Pressure-Gas-Line-Test-Kit	2½"	±3-2-3%	Brass / Brass	Winters	**K4557**
NPT - Bottom					
Low-Pressure-Gas-Test-Gauge-with-Test-Block	2"	±3-2-3%	Brass / Phosphor Bronze	Winters	**489F22**
	4"	±1.0%	Brass / Brass	Winters	**K4558**
For Manifolds & Industrial Flow					
½ in Hose Barb - Bottom					
Manifold-Pressure-Test-Kit	2"	±0.5-1-2%	Steel / Brass	Robinair	**52VN91**
¾ in FGHT Female - Top					
Flow-Meter-&-Pressure-Tester	2½"	±3.00%	Brass	Duro	**9JEE7**
1 in BSPT Female - Back					
Manifold-Pressure-Test-Kit	2"	±3-2-3%	—	Watts Radiant	**10A290**
For Pressure & Temperature Levels					
¼ in NPT Male - Bottom					
Temperature-&-Pressure-Test-Kit	3½"	±2-1-2%	Brass / Phosphor Bronze	Winters	**52JG24**

For Commercial & Residential Water Lines 489F23

Low-Pressure Gas Line Test Kit K4559

Gas & Water Line Pressure Test Gauges & Kits

- Available in pressure ranges from 0 to 100 in WC and 0 to 300 psi at Grainger.com

Measure water line pressure in residential or commercial environments as well as low pressure gas in ovens, air filters, or compressors. For detailed information on test kit contents, go to Grainger.com.

Commercial and residential water line test kits are intended for use on drinking water taps. Gauges have lead-free wetted parts.

Low pressure gas and water test kits have a gauge and test block for pressure-decay testing in facilities, process plants, and new construction areas.

Low pressure gas line test kits measure low-pressure gas lines, test new gas installations for leaks, and ensure lines meet inspection codes.

Manifolds and industrial flow test kits are intended for general use testing and inspecting manifolds for leaks.

Pressure and temperature level test kit contains both a pressure gauge and a thermometer.

Pressure Gauges Cleaned for Oxygen Service

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 3000 psi at Grainger.com
- Dial size: 2½"
- Accuracy: ±1.0%
- Stainless steel housing
- Stainless steel wetted parts
- Polycarbonate lens
- ¼" MNPT connection

Gauges have been precision cleaned and certified safe for operation with oxygen service. For critical applications where any residue or contaminant may create a spark or explosion.

Bottom Connection D0992

Connection Location	IP/NEMA Rating	Item No.
Bottom	IP54 (Plug vented), IP65 (Plug closed), NEMA 4 (Plug closed)	**D0992**
Lower Back	IP54 (Plug vented), IP65 (Plug closed), NEMA 4 (Plug closed)	**D0994**

Welding Regulator Pressure Gauges

- Available in pressure ranges from 0 to 6000 psi at Grainger.com
- Brass/bronze wetted parts
- Polycarbonate lenses
- ¼ in NPT male bottom connection

Designed for safety when used on welding fuels or in proximity to welding equipment.

Non-sparking gauges are used with welding regulators and manifolds and are compatible with many common welding fuels. Polished brass housing.

Replacement gauges replace worn or damaged pressure gauges used on welding manifolds and welding regulators. Steel housing.

Nominal Dial Size	Accuracy	Brand	Item No.
Non-Sparking Gauges for Welding Regulators & Manifolds			
2"	±3-2-3%	Winters	**K4562**
Replacement Gauges for Welding Regulators & Manifolds			
2"	±2.0%	Miller Electric	**K4563**

Digital Gauge for Pneumatic Regulators 45MU05

Indicating Compressor & Canister Gauges 2C492

Compressed Gas & Air Pressure Gauges

Suitable for pneumatic and industrial applications.

Gauge for regulators and actuators is a high-pressure gauge with a dual scale in units of psi and kPa.

Gauges for pneumatic regulators have an LCD display that provides clear and highly accurate pressure readings. 4 selectable display units of bar, kg/sq cm, MPa, or psi.

Indicating air filter pressure and canister pressure gauges have color-coded dials with green/yellow/red to indicate when the filter needs to be cleaned or replaced.

Pressure Range	Nominal Dial Size	Accuracy	Gauge Wetted Parts	Case Material	Brand	Item No.
Dial Pressure Gauges For Regulators & Actuators						
⅛ in NPT Male - Bottom						
0 to 3,000 psi	1½"	±2.5%	Stainless Steel	—	Winters	**491F33**
Digital Pressure Gauges for Pneumatic Regulators						
⅛ in NPT Male - Center Back						
0 to 145 psi	1¾"	±1.00%	Brass / Bronze	ABS Thermoplastic	Kodiak	**45MU04**
¼ in NPT Male - Center Back						
0 to 145 psi	1¼"	±2.00	Aluminum / Silicon	Plastic	Groz	**36JP03**
0 to 145 psi	1¾"	±1.00%	Brass / Bronze	ABS Thermoplastic	Kodiak	**45MU05**
Indicating Air Filter Compressor & Cannister Pressure Gauges						
⅛ in NPT Male - Center Back						
0 to 60 psi	1½"	±3-2-3%	Brass / Bronze	—	Winters	**491G22**
0 to 60 psi	2"	±3-2-3%	Brass / Bronze	ABS Plastic	Ashcroft	**2C492**

Hydraulic Press & Cylinder Pressure Gauges

- Available in pressure ranges from 0 to 40,000 psi at Grainger.com

Intended for use in demanding, high-cycle hydraulic applications such as monitoring and testing system pressure for hydraulic presses, cylinders, tool holding, and tooling systems.

Gauges for hydraulic presses & cylinders use a dual scale to measure system pressure and force. Measure input pressure into cylinders, jacks, and high-pressure systems.

Gauges for hydraulic machinery measure very high pressures with a high degree of accuracy. Commonly used for proof-pressure testing of hydraulic valves and machinery.

Digital gauges measure hydraulic system pressure with high accuracy.

Adapters are compatible with specific gauges and machines and allow a gauge to mate with a specific cylinder, press, or other tool.

Gauge for Hydraulic Presses & Cylinders 46C577

Test System Gauge for Hydraulic Machinery 18Y551

Nominal Dial Size	Secondary Scale Units	Accuracy	Gauge Case Liquid	Blowout Safety Back	Brand	GAUGE Item No.	ADAPTER Item No.
Dial Pressure Gauges for Hydraulic Presses & Cylinders							
¼ in SAE Male - Bottom							
2½"	bar	±3-2-3%	Glycerin	No	Pic Gauges	19RZ24	—
¼ in NPTF Male - Bottom							
2½"	bar	±1.50%	Glycerin	Yes	Enerpac	K4564	3KD39
4"	bar	±1.00%	Glycerin	Yes	Enerpac	K4565	3KD39
	ton	±1.00%	Glycerin	No	Enerpac	46C577	3KD39
¼ in NPTF Male - Center Back							
2½"	bar	±1.50%	Glycerin	Yes	Enerpac	K4566	3KD39
½ in NPTF Male - Bottom							
4"	bar	±1.00%	None	Yes	Enerpac	3KD63	3KD38
	bar	±1.00%	None	No	Enerpac	46C578	3KD38
	bar	±1.00%	Glycerin	Yes	Enerpac	5ZL41	3KD38
	lbs, ton	±1.00%	Glycerin	No	Enerpac	K4567	3KD38
Dial Test System Gauges for Hydraulic Machinery							
¼ in Cone Male - Bottom							
162-mm	bar	±0.50%	None	Yes	Enerpac	41GJ14	—
192-mm	bar	±1.50%	None	Yes	Enerpac	18Y552	—
½ in NPTF Male - Bottom							
162-mm	bar	±0.50%	None	Yes	Enerpac	18Y551	—
Digital Pressure Gauges for Hydraulic System Pressure							
¼ in NPTF Male - Bottom							
2¾"		±0.25%		No	Enerpac	22NV68	—

Ammonia Refrigerant Compound Gauges

- Accuracy: ±3-2-3%
- Temp. range: -40° to 150°F
- Steel housing
- 316 SS sensor/steel socket
- Polycarbonate lens
- ¼" NPT male bottom connection

Dual-scale dial provides temperature and pressure readings in a single glance. Commonly used in commercial and industrial refrigeration systems.

4CFW8

Range	Item No.
2½" Dial	
30 in Hg Vac to 150 psi	4CFW6
30 in Hg Vac to 300 psi	4CFW7
3½" Dial	
30 in Hg Vac to 150 psi	4CFW8
30 in Hg Vac to 300 psi	4CFW9

SCBA Panel-Mount Pressure Gauges

- Available in pressure ranges from 0 to 10,000 psi at Grainger.com
- Brass/bronze wetted parts
- Glycerin fill
- ¼" NPT male center back connection

Measure pressure in compressed breathing air in SCBA (self-contained breathing apparatus) applications where accuracy and leak integrity are critical. Designed for use in firefighting and emergency response applications. U-clamp mounting.

White w/ Color Zones 52VR91

White Dial K4578

Nominal Dial Size	Accuracy	Case Material	Lens Material	Dial Color	Item No.
2½"	±1.0%	Zytel Nylon	Acrylic	White with Color Zones	52VR91
63-mm	±2-1-2%	Stainless Steel	Polycarbonate	White with Color Zones	52VR97
2½"	±1.0%	Zytel Nylon	Acrylic	White	K4577
63-mm	±2-1-2%	Stainless Steel	Polycarbonate	White	K4578

G3999

20LK20

Liquid-Level Altitude Pressure Gauges

- Available in pressure ranges from 0 to 690 ft wc at Grainger.com

Use to determine the level of water or liquid in a tank or well. Gauges read head pressure in units of ft. wc (feet water column). Commonly used in tanks, standpipes, and other applications where water depth must be accurately gauged.

Well water gauges measure in units of ft. H20 (feet of water) to indicate the depth of water in a well.

Nominal Dial Size	Accuracy	Gauge Wetted Parts	Case Material	Brand	Item No.
Liquid Level Pressure Gauges					
¼ in NPT Male - Bottom					
4½"	+/-1.00%	Copper	Stainless Steel	—	G3999
	+/-1.00%	Brass / Bronze	Aluminum	Winters	K4568
	+/-0.50%	Brass / Bronze	Aluminum	Winters	K4569
6"	+/-0.50%	Brass / Bronze	Aluminum	Winters	K4570
Well Water Level Gauges					
4½"	+/-2.00%	Brass / Bronze	Steel	Duro	20LK20

Agricultural Ammonia Pressure Gauges

- Accuracy: ±3-2-3%
- Stainless steel housing
- Stainless steel wetted parts
- Glass lens
- ¼" MNPT bottom connection

Measure pressure in systems that circulate or distribute anhydrous ammonia. Built to withstand harsh environments. Commonly used in bulk storage tanks, field tanks, processing equipment, metering devices, and applicator equipment.

4CFW4

Nominal Dial Size	Pressure Range	Item No.
2½"	0 to 60 psi	4CFW3
	0 to 150 psi	4CFW4

Fire Apparatus Panel-Mount Pressure Gauges

- Available in pressure ranges from -30 to 0 in Hg (vacuum) and 0 to 600 psi at Grainger.com
- Brass/bronze wetted parts

Gauges monitor water pressure in fire trucks, fire apparatus, and other emergency response applications.

Gauges with brass cases have an integral socket and tube to eliminate leaks. Glycerin fill.

Gauges with zytel nyon cases have KEM-X protection from freezing and clogging. Low temperature glycerin fill. Temperature-compensating internal diaphragm.

Pump pressure test kits include vacuum and pressure gauges, hoses, and fittings for testing fire truck/apparatus pumps. Padded carrying case.

K4575

52VR99

Nominal Dial Size	Accuracy	Case Material	Lens Material	▶CHOOSE: Dial Color	Item No.
Fire Truck & Fire Apparatus Panel-Mount Pressure Gauges					
¼ in NPT Male - Center Back					
2½"	±1.5%	Brass	Acrylic	White, Black	K4575
	±1.0%	Zytel Nylon	Acrylic	White, Black	K4683
3½"	±1.0%	Zytel Nylon	Acrylic	White, Black	K4571
¼ in NPT Male - Lower Back					
4"	±1.0%	Brass	Acrylic	White, Black	K4576
¼ in NPT Male - Center Back					
4½"	±1.0%	Zytel Nylon	Acrylic	White, Black	K4573
6"	±1.0%	Zytel Nylon	Acrylic	White, Black	K4574
Fire Truck Pump Pressure Test Kits					
—	—	—	—	White	52VR99

K4580

Differential Pressure Gauges

- Available in pressure ranges from 15 to 0 to 100 in wc and 0 to 100 psid at Grainger.com

Dial gauges measure and display the difference in pressure between two points in a system.

Gauges for low operating pressure are designed for use with lower total static system pressure, as in systems with maximum working static pressure of 80 psig, 35 psi, or lower.

Gauges for medium and high operating pressure are for systems with maximum working static pressure of 500 psig and higher. Midwest Instrument Series 120 and 220 have piston-type actuators, which permit fluid migration, and are used primarily for liquid applications such as hydraulics, pumps, and heat exchangers. All other Series have diaphragm sensors that permit no bypass of fluid and can be used on air, gas, and liquids in applications such as water treatment and anhydrous ammonia.

Gauges with switches can be connected to a control system to respond when the measured pressure rises or falls below a set point. Allow monitoring and control of a system by a single instrument.

Gauges with air velocity have a dual scale that measures both in. wc (inches of water column) and air velocity in ft./minute. Diaphragm sensor. Commonly used with air and noncorrosive gases in applications such as blowers and exhaust systems where monitoring the velocity of gas through the system is critical.

Series	Nominal Dial Size	Housing Material	▶CHOOSE: Gauge Accuracy	Brand	GAUGE Item No.	GAUGE WITH SWITCH Item No.
For Low Operating Pressure						
⅛ in NPT Female - Dual In-Line or Back						
1134	4 ½ in	Glass Filled Nylon	±3%	Ashcroft	**H8424**	—
⅛ in NPT Female - Dual Back and In-Line						
1134	4 ½ in	Glass Filled Nylon	±3%	Ashcroft	—	**H8425**
⅛ in NPT Female - Side						
A3000 Photohelic	4 in	Die Cast Aluminum	±4%, ±3%, ±2%	Dwyer	—	**K4580**
For Medium & High Operating Pressure						
¼ in NPT Female - Back						
120	2 ½ in	Aluminum	±3-2-3%	Midwest Instrument	**D0754**	**K4582**
120	2 ½ in	316L Stainless Steel	±3-2-3%	Midwest Instrument	**D0755**	**K4583**
120	2 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	—	**K4584**
120	4 ½ in	Aluminum	±3-2-3%	Midwest Instrument	—	**K4585**
120	4 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	—	**K4586**
130	4 ½ in	Glass Reinforced Plastic	±5%, ±3-2-3%	Midwest Instrument	**D7961**	—
130	4 ½ in	316 Stainless Steel	±5%, ±3-2-3%	Midwest Instrument	**G8762**	—
140	2 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	**D0747**	**K4588**
140	2 ½ in	Aluminum	±3-2-3%	Midwest Instrument	**D0748**	**K4587**
140	4 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	**D0751**	—
140	4 ½ in	Aluminum	±3-2-3%	Midwest Instrument	**D0752**	—
142	2 ½ in	Aluminum	±3-2-3%	Midwest Instrument	**D0756**	**K4589**
142	2 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	**D0757**	**K4590**
142	4 ½ in	Aluminum	±3-2-3%	Midwest Instrument	**D0758**	—
142	4 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	**D0759**	—
¼ in NPT Female - End						
220	4 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	—	**K4591**
240	4 ½ in	316 Stainless Steel	±3-2-3%	Midwest Instrument	—	**K4593**
¼ in NPT Female - In-Line						
1130	3 ½ in	Aluminum	±2%	Ashcroft	**D0746**	—
1132	3 ½ in	Aluminum	±2%	Ashcroft	**D0749**	—

Series	Nominal Dial Size	Housing Material	Gauge Accuracy	Air Velocity Range	Brand	Item No.
Gauge with Air Velocity for Low Operating Pressure						
⅛ in NPT Female - Dual Side or Back						
2000 Magnehelic	4 in	Die Cast Aluminum	±2%	500 to 4,000 fpm, 1,000 to 5,600 fpm, 500 to 2,800 fpm, 300 to 2,000 fpm	Dwyer	**K4579**
Gauge with Switch For Low Operating Pressure						
⅛ in NPT Female - Side						
A3000 Photohelic	4 in	Die Cast Aluminum	±2%	500 to 4,000 fpm, 1,000 to 5,600 fpm, 2000 to 12,500 fpm	Dwyer	**K4581**

** 1 psi = 27.71" WC.*

K4596

Digital Differential Pressure Gauges

- Available in pressure ranges from 20 to 0 to 100 in wc at Grainger.com
- ⅛" O.D. smooth-barb back connection
- NEMA 4X housing

Gauges measure and show the difference in pressure between two points in a system. Large 4-digit LCD display with 8 selectable engineering units. Easy 4 button operation with digital push button zero. Operate on 9 to 24V DC or included 9V battery. Commonly used to measure and monitor static pressures in ducts and buildings, filter status, and fan control.

Flow gauges measure the flow and velocity of air or gas across a system in addition to differential pressure.

Nominal Dial Size	Housing Material	Accuracy	Item No.
Flow Gauges For Air & Compatible Gases			
5 in	Glass Filled Plastic	±1.00%	**K4595**
Pressure Gauges For Air & Compatible Gases			
5 in	Glass Filled Plastic	±1.00%	**K4596**

K4645

K4647

K4649

DICKSON MONARCH INSTRUMENT

Pressure Data Loggers

DICKSON

Water-resistant IP68 logger measures water, gas, or oil pressure. Displays 12 units of measure with user-selectable sampling rate. Data can be downloaded via USB cable or flash card. ¼" NPT connection.

MONARCH TRACK-IT

Battery-powered, water-resistant IP67 loggers display and record pressure, vacuum, temperature, and parameter alone. Feature alarm set points and indicators, real time data, and Min./Max. readings are displayed live. Plugs into a USB port on a PC; allowing you to customize settings, transfer data, or view data in real time with the included Track-It software program. Include software, USB cable, and battery. ¼" male NPT connection.

Pressure Range	Sample Point Storage	Digital Readout	Software Req.	Brand	Item No.
Pressure with Display					
0 to 100 psi, 0 to 300 psi, 0 to 500 psi	64,000	LCD	4LB62	Dickson	**K4645**
Pressure And Temperature with Display					
0 to 35 psia, 0 to 150 psia, 0 to 350 psia, 0 to 550 psia, 0 to 2000 psia, 0 to 5800 psia	130,000	LCD	Yes	Monarch	**K4646**
0 to 35 psig, 0 to 150 psig, 0 to 350 psig, 0 to 550 psig, 0 to 2000 psig, 0 to 5800 psig	130,000	LCD	Yes	Monarch	**K4647**
380 to 760 Torr, 0 to 760 Torr	130,000	LCD	Yes	Monarch	**K4648**
Pressure And Temperature					
0 to 150 psia, 0 to 350 psia, 0 to 550 psia	64,000	No	Yes	Monarch	**K4649**

ASHCROFT® Dwyer® ifm efector

D1632

General Purpose Pressure Transmitters

- Available in pressure ranges from -14.7 to 30 psi and 0 to 8000 psi at Grainger.com
- Stainless steel wetted parts

Convert pressure measurements from liquids, gases, and vapors into electrical output signals.Threaded process connections for direct mounting to systems, and available with various electrical connections to connect to compatible control systems for monitoring. See Grainger.com for detailed information on electrical terminations and connections. Commonly used for process automation and control, pneumatic sensing, presses, machine tools, industrial and commercial HVAC and refrigeration applications.

Transmitters with cable and wire leads include 3-ft. cable.

Process Connec.	Accuracy	Enclosure Rating	Power Req.	Brand	Item No.
Cable & Wire Leads					
1 to 5V DC - 3 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4709**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4708**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4710**
4 to 20mA DC - 2 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4706**
¼"-MNPT	±0.25%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**K4702**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4705**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4704**
¼"-MNPT	±1%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**D1632**
¼"-NPT	±1%	NEMA 4X	10 to 36V DC	Ashcroft	**K4703**
½"-MNPT	±0.25%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**D1628**
½"-MNPT	±1%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**D1634**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4707**
DIN 43650 Form A Connector					
1 to 5V DC - 3 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4700**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4699**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4701**
4 to 20mA DC - 2 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4696**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4697**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4698**
4-Pin DIN 43650 Form C Connector					
¼"-MNPT	±0.25%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**D1626**
¼"-MNPT	±1%	IP66 ; NEMA 4X	10 to 30V DC	Dwyer	**D1633**
4-Pin Mini-DIN Hirschmann G Series Connector					
1 to 5V DC - 3 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4715**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4714**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4716**
4 to 20mA DC - 2 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4712**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4711**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4713**
4-Pin M12 Connector					
0 to 10V DC - 2 Wire					
¼"-MNPT	±0.75%	IP65	16 to 32V DC	ifm	**K4666**
¼"-MNPT	±0.75%	IP68; IP69K	16 to 32V DC	ifm	**K4666**
1 to 5V DC - 3 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4651**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4650**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**D3875**
4 to 20mA DC - 2 Wire					
⅛"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4718**
¼"-NPT	±0.25%	IP65 ; NEMA 4X	9 to 36V DC	Ashcroft	**D1674**
¼"-NPT-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4717**
¼"-MNPT	±0.75%	IP65	9.6 to 32V DC	ifm	**K4668**
¼"-MNPT	±0.75%	IP68; IP69K	9.6 to 32V DC	ifm	**K4668**
7⁄16-20-SAE-Male	±0.5%	IP67 ; NEMA 4X	9 to 36V DC	Ashcroft	**K4719**
½ in FNPT Conduit Connection, Screw Terminals					
¼"-MNPT	±0.25%	—	10 to 35V DC	Dwyer	**D1629**
¼"-MNPT	±1%	—	10 to 35V DC	Dwyer	**D1635**
¼"-MNPT	±1%	—	10 to 30V DC	Dwyer	**D1635**

Absolute Pressure Transmitters

Dwyer®

- 4 to 20mA DC output
- Accuracy: ±1% of full scale
- 2 wires
- 10 to 30V DC power required
- Stainless steel wetted parts
- IP66, NEMA 4X enclosure

Measure system pressure against a reference vacuum rather than ambient pressure. Transmit or send output signals to a compatible control panel or monitoring system. Commonly used for process automation and control, pneumatic sensing, presses, machine tools, industrial and commercial HVAC and refrigeration applications.

Pressure Range	Process Connec.	Item No.
4-Pin DIN 43650 Form C Connector		
0 psi to 15 psia	¼ in NPT	**3DRK9**
Cable & Wire Leads		
0 psia to 15 psia	¼ in NPT	**2HLV3**
0 psia to 15 psia	½ in NPT	**3DRH3**

D1632

ASHCROFT®

Indicating General Purpose Pressure Transmitters

Conduit Connection D3893

4-Pin M12 Connector D3896

- Available in pressure ranges from -14.7 to 15 psi and 0 to 7500 psi at Grainger.com
- 4 to 20 mA output
- ¼" NPT process connection
- Thin film sensor technology

Convert pressure measurements from liquids, gases, and vapors into electrical output signals. Connect to compatible systems for pressure control and monitoring.

Transmitters with 4-pin M12 connector have a 4-digit LED display with an illuminated band for easy visibility. User adjustable switch settings and analog scaling. Aluminum housing and stainless steel wetted parts.

Transmitters with screw terminals have a 4-digit backlit LCD display and user-configurable rangeability for quick range changes. Conduit housing with a threaded process connection and a threaded conduit connection for wiring entry. IP 66, NEMA 4X aluminum housing.

No. of Wires	▶CHOOSE: Burst Pressure	Accuracy	Process Connection Gender	Power Req.	Item No.
4-Pin M12 Connector					
4	10x Range, 5x Range, 3x Range	±1% of Full Scale	Male	11 to 36V DC	**D3896**
Screw Terminals ; ½ in FNPT Conduit Connection Entry					
2	5x Range, 3x Range	±0.25% of Full Scale	Female	12 to 32V DC	**D3893**

Explosion-Proof-Rated K4690

Intrinsically Safe-Rated D3899

Energy Barrier 4FTL5

Mercoid® ASHCROFT® Dwyer®

Hazardous Location Pressure Transmitters

- Available in pressure ranges from -14.7 psi to 15 psi and 0 to 5000 psi
- NEMA 4X enclosures

Rated for use on industrial processes or in environments with a risk of combustion or explosion.

Explosion-Proof-Rated transmitters have housings designed to contain an explosion of specific gases or vapors, preventing further ignition of combustible dust or gas in the environment.

Intrinsically Safe-Rated transmitters are designed with circuitry that is incapable of discharging electrical, mechanical, or thermal energy into the atmosphere sufficient to cause a fire or explosion. For use in classified hazardous environments.

Energy barriers limit the amount of energy sent to a transmitter in hazardous locations to contain sparks and help prevent fires and explosions.

Output - No. of Wires	Accuracy (Full Scale)	Process Connection Gender	Brand	¼ in CONNECTION Item No.	½ in CONNECTION Item No.
Explosion-Proof-Rated Transmitters					
With Conduit Connection					
4 to 20mA DC / HART Communication	±0.075%	Female	Mercoid	—	**K4685**
With Conduit Connection & Wire Leads					
4 to 20mA DC - 2 Wires	±0.50%	Female	Ashcroft	**K4691**	**D3841**
1 to 5V DC - 3 Wires	±0.50%	Female	Ashcroft	**K4688**	**D3867**
	±0.50%	Male	Ashcroft	**K4689**	**K4687**
4 to 20mA DC - 2 Wires	±0.50%	Male	Ashcroft	**K4692**	**K4690**
Intrinsically Safe-Rated Transmitters					
With Cable & Wire Leads					
4 to 20mA DC - 2 Wires	±0.25%	Male	Dwyer	**D1658**	—
With Conduit Shielded Cable					
4 to 20mA DC - 2 Wires	±1%	Male	Ashcroft	**D3899**	—
With DIN 43650 Form A Connector					
4 to 20mA DC - 2 Wires	±0.25%	Male	Ashcroft	**D3836**	**K4693**
	±0.25%	Female	Ashcroft	**K4694**	**K4695**
	±0.50%	Female	Ashcroft	**K4694**	**K4695**
	±0.50%	Male	Ashcroft	**D3836**	**K4693**

Description	Brand	Item No.
Energy Barriers for Flammable Applications		
For use with Dwyer pressure transmitters	Dwyer	**4FTL5**

Digital Manometers

Portable, handheld instruments measure low positive, negative, and differential air and gas pressure. Commonly used in HVAC applications, laboratory testing, field calibration, and for measuring airflow and velocity.

General purpose manometers feature a digital display and selectable pressure units. **Extech** units offer 11 selectable units of measure and record max./min./avg. readings with relative time stamp. Data hold, auto power off, and zero function for offset correction or measurement. **4FB77** has a wide measurement range with high resolution. LCD shows 8 selectable units with data hold, min./max. and zero functions. **Yellow Jacket** unit measures gas, differential, and static pressure. **UEI** units **49CK75** and **9LHH8** offer dual input differential measurement and feature dynamic min./max. capture, data hold, and auto-off. Rugged rubber boot housing. **49KE06** offers dual input differential measurements in 11 selectable units of measure. Auto-ranging with min./max., data hold, and zero. Built-in magnet for hands-free operation.

Static pressure test kits include a dual input digital manometer, static pressure tips, tubing, fittings, and carrying case - all the components needed for testing pressure switches and gas or static pressure in HVAC systems.

Manometers and airflow meters are 2-in-1 units that perform static and differential pressure measurements as well as airflow and air velocity measurements and calculations. **Dwyer** units offer 9 selectable engineering units and store up to 40 readings with min./max./avg. statistics. Calculate and display air velocity and volumetric air flow. **Extech** unit is a pitot tube and differential manometer. Measures air velocity/air flow in tight locations. 5 selectable units of measure. Features data hold, auto-off, zero function, and record/recall for up to 99 readings. Includes pitot tube with connection hoses. **Fluke** units provide quick and accurate static and differential pressure, air velocity, and airflow measurements. 99 point storage capacity with min./max./avg./hold functions.

High-precision manometers offer precise 0.1% FS accuracy. Backlit digital display, 7 selectable pressure units, and internal memory stores up to 40 readings.

Single-pressure manometer measures low pressures in 9 selectable units. Push button auto-zero.

Smartphone-connected manometers measure differential and static pressure in 13 selectable units of measure. User is required to install the manufacturer's smartphone app, which reads, records, and analyzes measurements. Utilize bluetooth wireless connection.

4FB77

9LHH8

49KE06

2ENF2

1LZN6

▶CHOOSE: Pressure Range	Accuracy	Connections	Brand	Item No.
General Purpose Digital Manometers				
-29 to 29 psi	±1%	4 mm Hose Barb	Extech	**4FB77**
-19.95 to 19.95 in wc	±1.5%	⅛ in NPT	Yellow Jacket	**45JT41**
-60 to 60 in wc	±0.02 in wc (Low), ±1%	¼ in Hose Barb	UEI Test Instruments	**49CK75** †
	±0.02 in wc (Low), ±1%	¼ in Hose Barb	UEI Test Instruments	**9LHH8**
	±0.3%	¼ in Hose Barb	UEI Test Instruments	**49KE06**
0 to 13.85 in wc	±0.3%	⅛ in Hose Barb	Extech	**2ENF2**
	±0.3%	⅛ in Hose Barb	Extech	**8MGK8** †
0 to 55.40 in wc	±0.3%	⅛ in Hose Barb, 3⁄16 in Hose Barb	Extech	**1CWL9**
	±0.3%	⅛ in Hose Barb, 3⁄16 in Hose Barb	Extech	**9LW58** †
0 to 138.3 in wc	±0.3%	⅛ in Hose Barb	Extech	**2ENF3**
Digital Manometer Static Pressure Test Kits				
-60 to 60 in wc	±0.02 in wc (Low), ±1%	¼ in Hose Barb	UEI Test Instruments	**36H169**
	±0.02 in wc (Low), ±1%	¼ in Hose Barb	UEI Test Instruments	**49CK76** *
Digital Manometers & Airflow Meters				
0 to 100 psi, 0 to 150 psi	±0.5%	¼ in Compression, ⅛ in Compression	Dwyer	**K4723**
0 to 10.00 in wc, 0 to 4.00 in wc, 0 to 1.00 in wc, 0 to 20.00 in wc, 0 to 40.00 in wc, 0 to 200 in wc, 0 to 10 psi, 0 to 20.00 psi, 0 to 30.00 psi	±0.5%	⅛ in Hose Barb, 3⁄16 in Hose Barb	Dwyer	**K4722**
0 to 20 in wc	±0.3%	⅝ in Hose Barb	Extech	**9XJ80**
0 to 16 in wc	±1%	¼ in Hose Barb	Fluke	**1CWL5**
-4 to 4 kPa	±1%	⅛ in Hose Barb, 3⁄16 in Hose Barb	Fluke	**1CWL6**
High-Precision Digital Manometers				
0 to 20 in wc, 0 to 40 in wc, 0 to 200 in wc, 0 to 10 psi, 0 to 30 psi	±0.1% (60 to 78F), ±1% (Low/High)	⅛ in Hose Barb, 3⁄16 in Hose Barb	Dwyer	**K4721**
0 to 50 psi, 0 to 100 psi	±0.1% (60 to 78F), ±1% (Low/High)	⅛ in Compression	Dwyer	**K4721**
Single-Pressure Digital Manometers				
-20 to 20 in wc	±1.5%	¼ in Hose Barb, 3⁄16 in Hose Barb	Dwyer	**1LZN6**
Smartphone-Connected Digital Manometers				
-60 to 60 in wc	±0.02 in wc (Low), ±(0.1 in wc + 1.5%) (Full-Range)	¼ in Hose Barb, ⅛ in Hose Barb	Testo	**49ZZ54** *

****Includes calibration certificate. † Includes NIST calibration.***

Digital Manometers for Hazardous Locations

- ±0.5% accuracy
- Class I Div. 2 Group A,B,C,D safety rating

Rated intrinsically safe for hazardous locations. Low-energy discharge prevents ignition in areas where combustible or explosive gas or dust is present. Measure negative, positive or differential pressure in selectable units.

Air-measuring kits include all components needed to measure and monitor air velocity.

1XFW2

Pressure Range	Connections	Includes	Item No.
Intrinsically Safe-Rated Digital Manometers			
0 to 20 in wc	3⁄16 in Hose Barb, ⅛ in Hose Barb	Battery and Instructions	**1XFW2**
0 to 40 in wc	⅛ in Hose Barb, 3⁄16 in Hose Barb	Battery and Instructions	**1XFW3**
0 to 200 in wc	3⁄16 in Hose Barb, ⅛ in Hose Barb	Battery and Instructions	**1XFW4**
Intrinsically Safe-Rated Air-Measuring Digital Manometer Kits			
0 to 10 in wc	⅛ in Hose Barb, 3⁄16 in Hose Barb	(2) 4 ½ Ft Length 3⁄16 in ID Rubber Tubing, (2) No. A-303 Static Pressure Tips With Magnetic Mounting, A-397 Step Drill for 3⁄16 in-1/2 in Holes in 1⁄16 in Increments, A-532 AV Slide Chart, Fitted Polyethylene Case, Model 166T, 36 in Telescoping Ss Pitot Tube	**38XU37**
	⅛ in Hose Barb, 3⁄16 in Hose Barb	(2) 9 Ft Lengths 3⁄16 in ID Rubber Tubing, (2) A-303 Static Pressure Tips With Magnetic Mounting, A-397 Step Drill for 3⁄16 in-1/2 in Holes in 1⁄16 in Increments, A-532 AV Slide Chart, Fitted Polyethylene Case, Model 166-6-CF, 6 in SS Pitot Tube With Integral Compression Fitting	**38XU36**
0 to 20 in wc	⅛ in Hose Barb, 3⁄16 in Hose Barb	(2) 9 Ft Lengths 3⁄16 in ID Rubber Tubing, (2) A-303 Static Pressure Tips With Magnetic Mounting, A-397 Step Drill for 3⁄16 in-1/2 in Holes in 1⁄16 in Increments, A-532 AV Slide Chart, Fitted Polyethylene Case, Model 166-6-CF, 6 in SS Pitot Tube With Integral Compression Fitting	**1XFW5**
0 to 40 in wc	⅛ in Hose Barb, 3⁄16 in Hose Barb	(2) 9 Ft Lengths 3⁄16 in ID Rubber Tubing, (2) A-303 Static Pressure Tips With Magnetic Mounting, A-397 Step Drill for 3⁄16 in-1/2 in Holes in 1⁄16 in Increments, A-532 AV Slide Chart, Fitted Polyethylene Case, Model 166-6-CF, 6 in SS Pitot Tube With Integral Compression Fitting	**38XU38**

13G533

21RV55

Digital Pressure Meter for Industrial & Shop Applications

EXTECH INSTRUMENTS

- 2 GB datalogging
- SD card and RS-232 interface

Portable handheld meter displays 10 selectable pressure units on backlit dual LCD display. Datalogger records up to 20M readings via included SD card. Features data hold, max.\min., and record/recall. Adjustable sampling rate. Commonly used in hydraulic and pneumatic industrial shop applications. Order transmitters separately.

Transmitters - Interchangeable transducers plug into meter which automatically senses the transducer's range and calibration. Corrosion-resistant brass alloy construction.

Pressure Range	Accuracy	Item No.
Pressure Meter		
0.01 to 10 bar, 0.01 to 9.87 atm, 0.09 to 10.19 kg/sq cm, 0.1 to 101.9 m H2O, 0.2 to 145 psi, 0.2 to 295.2 in Hg, 1 to 1000 kPA, 10 to 10000 hPA, 10 to 7500 mm Hg, 5 to 4010 in H2O (with 150 psi transducer)	±0.50% of Reading	**13G533**
Transmitters		
0.02 to 30 psi	±1% of Full Scale	**1PX64**
0 to 150 psi	±2%	**21RV55**

Analog Manometers

Dwyer®

Provide continuous readings of atmospheric, static, vacuum, or differential pressure with no power source required. Commonly used in general purpose HVAC applications as well as specialized applications ranging from paint booths to cleanrooms and laboratories.

Stationary - **MARK II** units have a curved inclined vertical tube to provide measurements at higher ranges in easy-to-read increments. Include 2 static pressure tapes, double column plastic tubing, indicating fluid, mounting screws, and pointer flags. **Series 1227** offers readings as a U-tube or inclined gauge. Clear, shatterproof indicating tube. Includes gauge oil, tubing for pressure source connection, magnetic clips, and carrying case.

Portable - U-shaped flexible tube unrolls when in use, and can be easily rolled up for storage. Feature overpressure safety traps to prevent loss of fluid. Include 1 bottle of fluid, nylon rubber tubing connectors, magnetic mounting clips, and plastic case.

Testing kit contains all components needed for checking pressure in most gas appliances. Includes 1 bottle fluid, pipe thread bushing, 16 in manometer 3T302, rubber tubing, rubber tubing adapter, 2 pipe thread rubber tubing adapters, and plastic case.

Stationary K4725

Portable K4724

Kit 3T293

Pressure Range	Slack Tube Length	Manometer Type	Fluid Color	Series	Item No.
Stationary Analog Manometers					
0 to 3 in wc	—	Inclined Vertical	Red	MARK II	**K4725**
0 to 7 in wc	—	Inclined Vertical	Blue	MARK II	**K4725**
-0.20 to 2.6 in wc, 0 to 16 in wc	—	U-Inclined	Red	1227	**3T294**
Portable Analog Manometers					
-12 to 12 in wc, -4 to 4 in wc, -6 to 6 in wc, -8 to 8 in wc, -24 to 24 in wc, -30 to 30 in wc, -36 to 36 in wc, -60 to 60 in wc, -18 to 18 in wc	24 in, 8 in, 12 in, 16 in, 48 in, 60 in, 72 in, 120 in, 36 in	Flexible U-Tube	Green	1211	**K4724**
Testing Manometer Kits for Gas Appliances					
-8 to 8 in wc	16 in	Flexible U-Tube	Green	1212	**3T293**

Fluid Color	Bottle Capacity	Specific Gravity	For Use With	Item No.
Analog Manometer Fluids				
Red	4 oz	0.83	2T650; 3T294	**1TC00**
Inclined Manometer Stands				
—	—	—	MARK II 25, MARK II 26	**1TC33**

Submersible Level Transmitters

FLOWLINE Mercoid® Dwyer® ASHCROFT®

- Available in pressure ranges from 0 to 100 psi and 0 to 690 ft wc at Grainger.com
- Available with cable lengths from 25 to 710 ft. at Grainger.com
- Lightning and surge protection
- Electrical connections are cable and wire leads

Transmitters are placed at the bottom of a tank, well, or other liquid container to measure the height of liquid referenced to atmospheric pressure. Commonly used in a variety of water management applications.

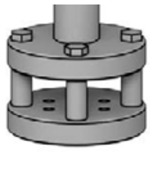
Polyurethane coated cables are for water monitoring, environmental remediation, and water tanks. ETFE (ethylene tetra fluoroethylene) coated cables provide excellent temperature, chemical, and corrosion resistance for wastewater, sludge pits, chemical and oil tanks, slurries, sumps, and reservoirs.

For Tanks and Groundwater - **Flowline** units have 316 SS, 316L SS, Buna-N and PVC wetted materials. **Mercoid** units have a bullet nose design that protects the diaphragm from damage. Wetted materials are 316 SS, 316L SS, PVC, and fluoroelastomer.

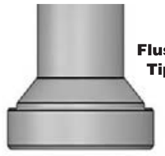
For Harsh Applications - **Mercoid** units have a durable bird cage design with large diameter 316 SS diaphragm seal that is non-clogging and damage resistant to floating solids. **Dwyer** units have a flush diaphragm tip that will not clog in aggressive fluids. Ideal for use with sludge and slurries.

Miniature for Boreholes and Wells - **Ashcroft** units have a small 17mm dia. and complete 316 SS construction. **Dwyer** units have a 0.63" dia. to fit into narrow openings. 316 SS body and nose cap.

Bullet Nose Tip


Bird Cage Tip

K4731


Flush Tip

Accuracy	Sensor Length	Tip Design	Power Req.	Output	Brand	POLYURETHANE CABLE COATING Item No.		ETFE CABLE COATING Item No.	
Submersible Level Transmitters for Tanks & Groundwater									
±0.25% of Full Scale	4.08 in	Bullet Nose	13 to 30V DC	4 to 20mA DC	Flowline	**K4739**		—	—
±0.25% of Full Scale	6.7 in	Bullet Nose	10 to 30V DC	4 to 20mA DC	Mercoid	**K4735**		**K4736**	
Submersible Level Transmitters for Harsh Applications									
±0.25% of Full Scale	7.8 in	Bird Cage	13 to 30V DC	4 to 20mA DC	Mercoid	**K4731**		**K4732**	
±0.25% of Full Scale	5.94 in	Flush Tip	10 to 33V DC	4 to 20mA DC	Dwyer	**K4733**	—	**K4734**	—
±0.25% of Full Scale	5.94 in	Flush Tip	10 to 33V DC	4 to 20mA DC	Dwyer	**K4733**	—	—	—
Miniature Level Transmitters for Boreholes & Wells									
±0.25% of Full Scale	6.37 in	Bullet Nose	10 to 36V DC	4 to 20mA DC	Ashcroft	**K4738**		—	—
±0.25% of Full Scale	6.7 in	Bullet Nose	10 to 33V DC	0 to 5V DC	Dwyer	**K4729**	—	**K4730**	—
±0.25% of Full Scale	6.7 in	Bullet Nose	10 to 33V DC	4 to 20mA DC	Dwyer	**K4727**	—	—	—
±0.10% of Full Scale	6.7 in	Bullet Nose	10 to 33V DC	4 to 20mA DC	Dwyer	**K4728**	—	—	—

Description	Brand	Item No.
Accessories		
Termination Box for K4738	Ashcroft	**40AZ94**
Mounting Kit for K4739	Flowline	**49K044**
Desiccant Filter for K4739	Flowline	**49K045**

Pitot Tubes & Airflow Sensors

Measure air flow and air velocity and connect to pressure instruments such as differential pressure gauges, switches, transmitters, and manometers to monitor and control airflow in HVAC systems or specialized applications.

Pitot tubes - Stainless steel tubes are graduated to allow the user to quickly reach the needed insertion depth. Compatible with direct-mounting in ducts and many types of mounting hardware. Pocket tubes have 1/8" dia.; standard tubes have 5/16" dia. Straight tubes allow for easy insertion into ducts. Tubes with compression fitting allow the tube to be fixed into position when inserted into a duct.

Airflow sensors - Blade-style metal sensors are secured to square or rectangular ducts with a flange. Blade design provides minimal disruption of air stream for more accurate measurements. Plastic averaging sensors are ideal for sensing differential pressure. Integral flange with gasket for mounting to square and round ducts.

Pitot Tube

Pitot Tube with Compression Fitting

Blade-Style Airflow Sensor

Pitot Type	▶CHOOSE: Insertion Length	Maximum Media Temperature	Brand	Item No.
Pitot Tubes				
Pocket Size	6 in, 12 in	—	Dwyer	**K4743**
Standard	12 in	—	Fluke	**3MPA4**
Standard	12.625 in, 120 in, 168 in, 216 in, 60.625 in, 96 in, 8.625 in, 18.625 in, 24.625 in, 36.625 in, 48.625 in	1,500 °F	Dwyer	**K4742**
Straight	18 in	1,500 °F	Dwyer	**38RW76**
Pitot Tubes with Compression Fittings				
Pocket Size	6 in	—	Dwyer	**40XC92**
Standard	12.625 in, 24.625 in	1,500 °F	Dwyer	**K4744**

▶CHOOSE: Insertion Length	Maximum Media Temperature	Brand	Item No.
Blade-Style Metal Averaging Airflow Sensors			
4 in, 6 in, 8 in, 10 in, 12 in, 14 in, 16 in, 18 in, 20 in, 22 in, 24 in, 26 in, 28 in, 30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in, 48 in	400 °F	Dwyer	**K4740**
General Purpose Plastic Averaging Airflow Sensors			
3 1/8 in, 5 3/8 in, 7 5/8 in, 9 7/8 in	120 °F	Dwyer	**K4741**
12 1/2 in, 14 3/4 in, 17 1/8 in, 19 3/8 in, 21 5/8 in, 23 7/8 in	120 °F	Dwyer	**K4741**

Static-Pressure Tips, Pickups & Mounting Hardware

Use with differential pressure instruments such as manometers, controllers, and pressure switches to measure airflow.

Static-pressure tips are hook-shaped metal tips that connect to a manometer or transmitter and mount in a duct; except 1W401 is a portable unit with a magnet that holds it in place.

Static-pressure pickups mount to walls or ceilings and connect to pressure monitoring systems. 23Z320 is designed for cleanroom use. 23Z322 is for room mount with plastic enclosure that fits 2" x 4" electrical box. 23Z323 mounts on top of a standard 3/4"-thick ceiling tile, with its filter facing down through a 5/8" hole in the tile. 23Z324 is designed for roof or outside mounting, and is built to withstand harsh conditions.

Static-pressure fittings connect to the tubing of differential pressure instruments to facilitate pressure readings.

Wall plate pickups create an opening on a wall to view pressure readings. Foam gasket creates tight seal. Can be mounted to a standard 2" x 4" electrical box or to walls or ceilings. 23Z321 is designed for cleanroom use.

Mounting glands and flanges are for mounting tips and pickups to manometers and transmitters.

Static-Pressure Tips 1W401

Static-Pressure Pickups 23Z320

Static-Pressure Fitting 1W397

Wall Plate Pickup 23Z325

Insertion Length	Material	For Tubing Diameter	Includes	Mfr. Model	Item No.
Static-Pressure Tips					
4 in	303 Stainless Steel	3/16 in	Flange	A-489	**23Z317**
4 in	Stainless Steel	3/16 in	Magnet	A-303	**1W401**
6 in	Stainless Steel	3/16 in	Mounting Flange	A-491	**23Z318**
8 in	Stainless Steel	3/16 in	Mounting Flange	A-493	**23Z319**

Material	For Tubing Diameter	Includes	Mfr. Model	Item No.
Static-Pressure Pickups				
316 Stainless Steel	5 mm	Mounting Screws	A-414	**23Z320**
Plastic	1/8 in, 3/16 in	Foam Gasket, Mounting Screws	A-418A	**23Z322**
Metal	1/8 in, 3/16 in	—	A-419A	**23Z323**
Plastic with Metal Plate/Conduit Connector	1/8 in, 3/16 in	EMT Conduit Fitting	A-420A	**23Z324**
Static-Pressure Fittings				
Stainless Steel	1/8 in, 3/16 in	—	A-308	**1W397**
Stainless Steel	1/4 in	—	A-307	**1W399**
Wall Plate Pickups				
ABS Plastic	3/16 in	Anchors, Mounting Screws, Tubing	A-465	**23Z325**
Stainless Steel	1/8 in, 3/16 in	Foam Gasket, Mounting Screws	A-417A	**23Z321**

Accessory Type	Material	Includes	Mfr. Model	Item No.
Mounting Glands & Flanges				
Mounting Gland	Stainless Steel	Graphite Bushing, Jam Nut, Washers	A-159	**1W403**
Split Flange	Cadmium Plated Steel	Gasket for Mounting 5/16 in Pitot Tubes on Ducts, Nuts, Washers	A-158	**1W405**

Wind Speed Indicators and Vane Anemometer

WIND SPEED INDICATOR

Rooftop-mounted pickup reads wind velocities from 0 to 80 mph and 1 to 12 Beaufort scale directly on liquid-filled tube. Includes 50-ft. vinyl tubing.

HANDHELD WIND SPEED INDICATOR

Quickly displays wind velocity in 2 scales: 2 to 10 mph and 4 to 66 mph. Pocket size with sturdy plastic case.

VANE ANEMOMETER

Permanent-mount or portable instrument measures velocities from 25 to 400 fpm. Large easy-to-read scales are visible from both sides.

3T307

Description	Mfr. Model	Item No.
Wind Speed Indicator	MARK II WSI	**3T307**
Handheld Wind Speed Indicator	WIND METER-MPH	**3T308**
Mountable Vane Anemometer	480	**1W431**

4TM11 4FB70 9DUY3 4YMT7 5CVT8

GENERAL® TRACEABLE® EXTECH INSTRUMENTS

Digital Stopwatches

Each includes lanyard and battery.

General—Fully featured stopwatch displays day, date, current time, and lap time. Daily alarm and hourly chime. Manufacturer's lifetime warranty.

Traceable—Continuous timing function lets you time for hours, days, or weeks; the display rolls over to zero when it maxes out, automatically beginning timing again. 9DUY3 is shockproof and waterproof to 3 atmospheres. 4YMT7 is disposable. 5CVT8 has vivid, large digits. 9NU56 simultaneously displays running time, cumulative-split, and interval-split. 300 record memory. Each instrument is provided with a serialized Traceable Calibration Certificate indicating traceability to standards provided by NIST.

Extech—4TM11 includes calendar display (day, month, date), plus alarm with snooze function with time delay. HeatWatch 2ENF7 and 4FB70 display temperature, humidity, and heat index with programmable heat index alarm. Offers fastest/slowest/average lap recall.

Timing Range	12/24-hr. Clock Operation	Elapsed Time	Split Time	Alarm	Snooze Alarm	Hour Chime	Water Resistant	Calibration Certificate	Memory Recall	Display	Battery Type	Mfr. Model	Item No.
Extech													
Count up to 23 hr, 59 min, 59 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	2 split and lap times	Multiline LCD	LR44	365510	**4TM11**
Count up to 9 hr, 59 min, 59 sec	Yes	Yes	Yes	Yes	No	No	No	No	30 lap/split memory	2-line LCD	CR2032	HW30	**4FB70**
Up to 23 hr, 59 min, 59 sec	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	2 Split and Lap Times	Multiline LCD	CR2032	STW515	**55CH80**
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2 Split and Lap Times	Multiline LCD	CR2032	STW515-NIST	**55CH81**
9 hr, 59 min, 59.99 sec	Yes	Yes	Yes	Yes	No	No	No	Yes	30 Laps or Splits	2-line LCD	CR2032	HW30-NISTL	**2ENF7**
General													
Count up to 23 hr, 59 min, 59 sec	Yes	No	No	No	Yes	Yes	Yes	No	No	½ in LCD	CR2016	SW100A	**9PYC8**
Traceable													
Count up to 23 hr, 59 min, 59 sec	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	¼ in LCD	3V Button Cell Battery	1042	**9DUY3**
	Yes	Yes	Yes	No	No	No	No	Yes	No	⅓ in LCD	392	1043	**4YMT7**
	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	½ in LCD	3V CR2032	1051	**5CVT8**
Count up to 9 hours, 59 minutes, 59 seconds, 99 hundredths	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	300 Records of Split	3-line LCD	3V Button Cell Battery	1052	**9NU56**

8RLR2 9NLW2 8GHH3 4YMT6 6KED8 8PGN6 9JAZ8 6KED7 3NZR6 9JXT0

Digital Timers

TRACEABLE® Cooper ATKINS® TAYLOR.

- Min. time setting: 0.1 sec.

TRACEABLE

Each timer is provided with a serialized Traceable Calibration Certificate indicating traceability to standards provided by NIST.

Alarm Timer —4-channel device functions as count up/down timer, time in/out display, and 12/24 hr. clock. Memory resets display to previously programmed count-down time.

Clip-It Timer—Multitasking timer clips to any lab surface. Memory saves last programmed setting for quick recall: useful for repetitive timing events. Features loud, 1 min. alarm.

Countdown Timer 8GHH3—View large 1⅓" digits from across the room. 1-touch recall returns channel to previously programmed setting. Countdown/up and stopwatch modes.

Countdown Timer 4YMT6—Jumbo digit, lightweight and portable timer's memory resets display to last programmed time for quick repeat of frequent, routine tests. Loud 30-sec. alarm.

Dual Channel Flashing LED Timer—6-digit, dual channel display. Features 2 simultaneous countdown activities, flashing LED timing indicator/alarm and adjustable volume. Green light flashes counting down, red light flashes once at zero.

Jumbo Timer—Display adjusts from 90° to 180° for angled viewing. Counts up after alarm to show elapsed time since alert. Also has time in/out, 12/24-hr. clock, and stopwatch functions.

Nano Timer—Operates as a countdown alarm timer, stop-watch (count up), or 12/24-hr. clock. Compact design with large digits for readability. 2-channel memory automatically resets display to the original programmed time.

Timer 6KED7—Big-digit timer has adjustable alarm and flashing LED alert. Green light flashes every second after timing reaches 10 sec.; red indicator flashes when zero is reached and shows time elapsed since alarm. Adjust volume for high, low, or off for silent flashing LED alert.

TAYLOR

Digital Timer—Easy-to-use, multipurpose timer counts up or down. Compact with clip, magnet, or stand positioning.

Loud Digital Timer—Times up to 4 events simultaneously with distinctive 100dB alarms for each event. Adjustable volume. Lights flash at zero. Stand or wall mount.

COOPER-ATKINS

24-Hr. Digital Timer—Large single-station timer has a red alert light that flashes when the alarm sounds. Automatically counts up once the set time has elapsed. Handy 1-touch Start/Stop button.

Item	Max. Time Setting	Display	Alarm	Display	Battery Type	Mfr. Model	Item No.
Traceable							
Alarm Timer	99 hr 59 min 59 sec	¾ in LCD	High-Decibel Alarm Sounds for 1 min or Silence Manually	¾ in LCD	Button Cell	5004	**8RLR2**
Clip-It Timer	99 hr 59 min 59 sec	⅓ in LCD	Yes	⅓ in LCD	Button Cell	5046	**9NLW2**
Countdown Timer	99 min 59 sec	1 ⅓ in LCD	Audible	1 ⅓ in LCD	AAA	5011	**8GHH3**
Countdown Timer	99 min 59 sec	¾ in LCD	Yes	¾ in LCD	AAA	5028	**4YMT6**
Dual Channel Timer	99 hr 59 min 59 sec	Dual LCD	Audible and Visual	Dual LCD	AAA	5017	**6KED8**
Jumbo Timer	23 hr 59 min 59 sec	1 in LCD	Audible and Visual, Each Channel Has Distinct Alarm	1 in LCD	AAA	5022	**8PGN6**
Nano Timer	23 hr 59 min 59 sec	⅜ in LCD	High-Decibel Alarm Sounds for 1 min	⅜ in LCD	Button Cell	5132	**9JAZ8**
Timer	99 min 59 sec	1 in LCD	Audible and Visual	1 in LCD	AAA	5013	**6KED7**
Taylor							
Digital Timer	99 min 59 sec	LCD	Audible	LCD	AAA	5806	**3NZR6**
Loud Digital Timer	9 hr 59 min 59 sec	LCD	Audible and Visual	LCD	(4) AA	5839	**3NZT6**
Cooper Atkins							
24-Hour Digital Timer	23 hr 59 min 59 sec	LCD	Audible and Visual	LCD	AAA	FT24	**9JXT0**

Manual
3KYD8

Digital
38RJ43

TRACEABLE® WÖHLER

Barometers

Analog—Precision dial barometer measures atmospheric pressure in units of hPa, in Hg, and mm Hg. Durable nickel-chrome housing.

Digital—6NWA3 - Measures barometric pressure in hPa, temperature in °C / °F, and sound level. IR interface for use with printer or PC.

38RJ43 - Large 4-line LCD continuously and simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend, and time-of-day. Records Min/Max readings and allows user to set parameters for HI/LO alarms. Connect to a computer and use 38RJ44 software to permanently capture data.

53DU69 - Measures barometric pressure, relative humidity, and temperature and wirelessly transmits data to a cloud-based interface. Audible and visual alarms alert onsite personnel to out-of-range conditions. Remotely monitor controlled environments from any location - connect to data via Apple Watch, smartphone, tablet, or PC using TraceableLIVE cloud service (subscription required).

Barometric Pressure Range	Pressure Range (in Hg)	Barometer Accuracy	Sampling Rate	Includes NIST-Traceable Calibration Certificate	Brand	Item No.
Analog Barometer						
945 to 1073 hPa	28.1 to 31.7 in Hg	±0.5%	—	Yes	Traceable	**3KYD8**
Digital Barometers						
Without Data Logging						
300 to 1000 hPa	—	±1.5 hPa	—	No	Wohler	**6NWA3**
Data Logging						
500 to 1030 mBar	14.77 to 30.41 in Hg	±4 mbar	10 sec	Yes	Traceable	**38RJ43**
500 to 1100 mBar	14.77 to 30.41 in Hg	±4 mbar	9 sec	Yes	Traceable	**53DU69**
Data Acquisition System for 38RJ43						
6 ft (Supplied USB, Serial, and Instrument Connections) Cable, CD					Traceable	**38RJ44**

ONSET

HOBO Bluetooth® (BLE) Temperature and Humidity Data Logger

Measures and transmits temperature and relative humidity data wirelessly to mobile devices via Bluetooth Smart technology. Allows you to access data anytime from mobile devices over a 100-ft. range. Suitable for use in a range of building monitoring applications, such as tracking storage temperatures in a food warehouse, keeping tabs on humidity levels in a museum, or investigating occupant comfort complaints in an office building.

Special Features	Sample Point Storage	Mfr. Model	Item No.
Bluetooth Smart Wireless Communications, Data Sharing, RoHS Compliance	84,650	MX1101	**38AX83**

21RV54

15E593

EXTECH INSTRUMENTS

Desktop Indoor Air Quality (IAQ) CO_2 Monitors

- 0 to 9999 ppm CO_2 concentration
- RH range: 0.1% to 99.9%
- Min./max. CO_2 value recall

21RV54 and 15E593—Display air quality as Good/Normal/Poor, plus year, month, date, and time. Feature automatic baseline calibration (ABC) or use manual calibration in fresh air. 15E593 logs up to 5333 data points that can be downloaded to a Windows® compatible computer for analysis; software and cable included.

21YE40—Calculate statistical weighted averages of TWA (8-hr. time weighted average) and STEL (15-min. short term exposure limit). Employs 6 facial icons to indicate IAQ levels. Displays CO_2 ppm, year, month, date, and time. ABC. Manually stores/recalls 99 readings.

Temp. Range (F)	Digital Readout	Alarm	Mfr. Model	Item No.
23° to 122°F	LCD	Audible and Visual	CO100	**21RV54**
14° to 140°F	Multifunction LCD	High/Low Audible	CO210	**15E593**
14° to 140°F	LCD	Audible and Visual	CO220	**21YE40**

EXTECH INSTRUMENTS

Paperless Temperature/Humidity Monitor

- Graphical data logger
- Stores up to 20,000 readings
- Desk or wall mount

Simultaneously shows numerical and graphical display of humidity, temperature and dew point readings plus time and date. Measures humidity (10% to 95% relative), temp. (-20° to 140°F) and dew point (-4° to 176°F). Probe can be connected directly to the unit or attached to the 6.5-ft. extension cable for measurements in closed environments. Audible and visual alarm with user programmable High/Low setpoints. Include detachable probe, probe cable, USB adapter, universal adapter, and rechargable battery.

Mfr. Model	Item No.
RH550	**55RV90**

4JRH4

4JRH9

DAVIS

Vantage Pro2™ Weather Stations

WEATHER STATIONS

- **Temperature range: indoor 32° to 140°F; outdoor -40° to 150°F**
- **Relative humidity range: indoor 1% to 100%; outdoor 1% to 100%**
- **Wind velocity: 1 to 200 mph**
- **Rainfall: 0 to 199.99"; accuracy: ±4%.**

Monitoring systems update data every 2½ sec. from sensors up to 1000 ft. away. LCDs show barometric pressure, wind direction, wind chill, dew point, and heat index.

4JRH5 is a cabled weather station with sensor array wired to the indoor console. Runs on AC power. All others are wireless, with solar-powered outside sensors and console that requires 3 C batteries (not included) or AC power.

4JRH6 and 4JRH8 feature 24-hr. fan-aspirated radiation shield for max. temperature/humidity accuracy.

4JRH7 and 4JRH8 add UV and solar radiation/energy sensors. Display UV index, dose rate, and daily and accumulated dose.

4JRH9 is a wireless display console only.

Use WeatherLink® software with weather stations for downloading data for reporting, analysis, and sharing over the internet. Supports National Climatic Data Center (NOAA) Weather Watcher, GLOBE student science program, and the Citizen Weather Observer Program of the National Weather Service.

Sensor Type	Item	Transmission Range	Data Update Frequency	Mfr. Model	Item No.
Humidity, Rainfall, Temperature, Wind Speed	Cabled Weather Station	100 ft	2.5 sec	6152C	**4JRH5**
	Wireless Weather Station	1,000 ft	2.5 sec	6152	**4JRH4**
	Wireless Weather Station w/Fan	1,000 ft	2.5 sec	6153	**4JRH6**
Humidity, Rainfall, Temperature, UV and Solar Radiation, Wind Speed	Wireless Weather Station	1,000 ft	2.5 sec	6162	**4JRH7**
	Wireless Weather Station w/Fan	1,000 ft	2.5 sec	6163	**4JRH8**

Item	For Use With	Mfr. Model	Item No.
Accessories			
Wireless Console/Receiver	Vantage Pro2 6152, 6153, 6162 or 6163	6312	**4JRH9**
USB Data Logger	—	6510USB	**4JRJ1**
Serial Data Logger	—	6510SER	**4JRJ2**
Solar Radiation Sensor	Vantage Pro and Pro2	6450	**9T334**

4JRJ5

DAVIS

Vantage Vue® Weather Station

Wireless monitoring system updates data every 2½ sec. from solar-powered sensors up to 1000 ft. away. LCD shows barometric pressure, wind direction, wind chill, dew point, and heat index. Weather center feature provides weather variables, such as daily highs/lows. Compact outdoor sensor array is fully integrated and corrosionproof. Console requires 3 C batteries (not included) or AC power.

Temp. Range (F)	Wind Vel.	Wind Chill	Heat Index	Barometric Pressure	Dew Point	Alarms	Display	Rain Fall	Includes	Mfr. Model	Item No.
Indoor 32 to 140°, Outdoor -40 to 150°	1 to 200 mph	Yes	Yes	26 to 32 in Hg (880 to 1080 mbar)	Yes	Yes	Transflective LCD with Backlight	0 to 199.99 in/0 to 6553mm	Anemometer, Display Console, Humidity Sensor, Rain Collector, Temp Sensor	6250	**4JRJ5**
Accessory											
Additional Wireless Console/Receiver										6351	**4JRJ6**

EXTECH INSTRUMENTS

Wireless Weather Station

- **Long-range transmission up to 450-ft. (150m) between base and transmitter**
- **Max./Min. readings with time-date stamps**
- **Hi/Lo alert settings and warnings**
- **Clock display with 5 languages**

Helps plan day-to-day outdoor activities affected by weather. Indoor wireless base station with large LCD displays indoor temperature, humidity, and outdoor weather conditions, plus date and time. Outdoor wireless transmitter has 5 built-in sensors for measuring wind speed, wind direction, rainfall, temperature, and humidity. Kit is completely assembled for easy installation.

Temp. Range (F)	Wind Vel.	Wind Chill	Heat Index	UV Sensor	Barometric Pressure	Dew Point	Alarms	Display	Rain Fall	Power Source	Includes	Mfr. Model	Item No.
Indoor -40 to 158°, Outdoor -40 to 176°	0 to 111.8 mph	Yes	Yes	No	Yes	Yes	Yes	LCD	0 to 99.99 in	(3) AA Batteries (Base Station), (3) AA Batteries (Transmitter)	Bracket, Mounting Stand	WTH600-KIT	**453A39**

High-Accuracy Thermistor Meters & Probes

- Include NIST certificate of calibration

Meters measure suction- and liquid-line temperatures as well as temperatures across condensing and evaporator coils and ambient temperatures. They feature a backlit display for dark environments, a sealed keypad, and a battery eliminator jack. Use with thermistor probes and different types of sensors for multiple applications.

High-accuracy thermistor meters are commonly used in biological research laboratories and to measure air and room temperatures.

High-accuracy thermistor temperature & humidity meters are commonly used to monitor humidity levels indoors for comfort.

THERMISTOR PROBES

¼" DIAMETER

8-FT CABLE

2-wire probes measure temperatures as a function of changes in electrical resistance. They provide more accurate readings faster than other types of probes over a smaller range of temperatures.

Flange-mounted probes are commonly fixed to the outer wall of a duct and measure both the temperature and quality of air flowing through the duct.

Threaded probes use a thread-mounted sensor for fixed-position temperature sensing in closed tanks and pipes.

Temp. & Humidity Meter 46F194

Temp. Range (F)	Humidity Range	Res.	Accuracy	Included Probes	No. of Channels	Brand	Item No.
High-Accuracy Handheld Thermistor Temperature & Humidity Meters							
-40° to 300°F	10% to 95%	0.1°/1% RH	±0.3°F or ±0.5% of Reading Whichever is Greater	Model 1075 General Purpose Puncture Probe, Model 4011 Pipe Strap Probe, Model 5028 Humidity Probe	—	Cooper Atkins	**46F194**
-40° to 300°	10% to 95%	0.1°/1% RH	±0.3°F or ±0.5% of Reading Whichever is Greater	Model 1075 General Purpose Puncture Probe, Model 4011 Pipe Strap Probe, Model 5028 Humidity Probe	3	Cooper Atkins	**6T444**
High-Accuracy Handheld Thermistor Meters							
-40° to 300°F	—	0.1°	±0.3°F or ±0.5% of Reading Whichever is Greater	Model 1075 General Purpose Puncture Probe, Model 2010 Air Probe, Model 4011 Surface Probe	3	Cooper Atkins	**2T618**
	—	0.1°	±0.3°F or ±0.5% of Reading Whichever is Greater	Model 1075 General Purpose Puncture Probe, Model 2010 Air Probe, Model 4011 Surface Probe	—	Cooper Atkins	**46F193**
-40° to 302°F	—	0.1°	±0.3°F/0.2°C or ±0.5% of Reading Whichever is Greater	1075 General Purpose Probe	3	Cooper Atkins	**33HP78**
	—	0.1°	±0.3°F/0.2°C or ±0.5% of Reading Whichever is Greater	1075 General Purpose Probe	—	Cooper Atkins	**46F192**
-58° to 302°	—	0.1°	±1°C (-30° to 150°C), ±2°C (Otherwise)	Stainless Steel Probe with 18 in Cable	1	Traceable	**3KTW9**
-58° to 572°	—	0.1°C from -20° to 200°C, 1°C Elsewhere	±1°C	Stainless Steel Probe with 2.6 ft Cable	1	Traceable	**3KME4**

Mounting Type	Temperature Range	▶CHOOSE: Probe Length	Probe Sheath Material	Resist.	Item No.
Flange-Mounted Duct Thermistor Probes					
Duct Mount	-40° to 302°F/-40° to 150°C	4 in, 6 in, 8 in, 12 in, 18 in	304 Stainless Steel	10,000 ohm	**K3058**
		4 in, 6 in, 8 in, 12 in, 18 in	304 Stainless Steel	20,000 ohm	**K3059**
Threaded Thermistor Probes with Conduit Connection					
Duct Mount	-40° to 302°F/-40° to 150°C	4 in, 6 in, 8 in, 12 in, 18 in	304 Stainless Steel	10,000 ohm	**K3060**
		4 in, 6 in, 8 in, 12 in, 18 in	304 Stainless Steel	20,000 ohm	**K3061**
Immersion		4 in, 6 in, 8 in, 12 in	304 Stainless Steel	10,000 ohm	**K3064**
		4 in, 6 in, 8 in, 12 in	304 Stainless Steel	20,000 ohm	**K3065**
Threaded Thermistor Probes with Terminal Block					
Immersion	-40° to 302°F/-40° to 150°C	4 in, 6 in, 8 in, 12 in	304 Stainless Steel	10,000 ohm	**K3062**
		4 in, 6 in, 8 in	304 Stainless Steel	20,000 ohm	**K3063**

Long-Life & High-Accuracy Handheld RTD Meters & Probes

- NIST units include a certificate of calibration

With their wide range and precise accuracy, these handheld meters are used with different RTD probes for specific applications. Commonly used to check and perform calibrations, verify liquid-in-glass, digital and bi-metal thermometers, and to measure the temperature of refrigerators, freezers, incubators, and ovens.

Data-logging meter allows recorded data to be transferred from the thermometer to a PC or Mac with a wired connection.

RTD PROBES

Use a metal sensing element to measure temperatures over a wide operating range. Provide long-term stability compared to other types of probes.

Flex-wire probes have an insulated cable with a beaded junction on the sensing end with the terminal end connected to a meter or receiver.

Threaded probes have thread-mounted sensors for fixed-position temperature measurement of closed vessels like tanks or pipes.

Temp. Range (F)	Res.	Accuracy	Data Output Type	No. of Channels	Brand	STANDARD Item No.	NIST Item No.
Long-Life & High-Accuracy Handheld RTD Meters							
-148 to 572	0.1°F/0.1°C	±0.4°C	None	1	Thermco	—	**5ZPF4**
-328° to 1166°F, -328° to 1472°F	0.2°F/0.1°C	±0.05% + 0.4°F/0.2°C	None	2	Amprobe	**6NZG1**	—
	0.2°F/0.1°C	±0.05% + 0.4°F/0.2°C	WiFi	2	Amprobe	**6NZG2**	—
Data-Logging Long-Life & High-Accuracy Handheld RTD Meters							
-328° to 923°	0.1° to 0.0001°	±0.05°C or ±0.05%	RS-232	1	Control Company	—	**38ZC59**

Temperature Range	Accuracy	Probe Length	Probe Diameter	RTD Type	Connector Type	Probe Sheath Material	Item No.
Flex-Wire RTD Probes							
Air, Gases							
-328° to 788°F/-200° to 420°C	±0.050°C	12 in	0.25 in	RTD 100 ohm	Info-Con Smart Connector	316 Stainless Steel	**4FFJ6**
Air, Gases, Liquids							
-328° to 572°F/-200° to 300°C	±0.050°C (0°C), ±0.052°C (200°C), ±0.055°C (300°C), ±0.50°C (196°C)	9 in	0.188 in	4-Wire 100 ohm	Banana Plug	Mineral Insulated	**1CXJ2**
Appliances, Duct, Food and Beverage, HVAC, Ovens, Packaging, Pharmaceutical							
0° to 392°F/-18° to 200°C	±0.30°C/±0.12 ohm at 0°C	3 in	0.188 in	3-Wire Pt100	Bare Wire	316 Stainless Steel	**20XJ90**
		12 in	0.188 in	3-Wire Pt100	Bare Wire	316 Stainless Steel	**3FWX3**
	±0.15°C/±0.06 ohm at 0°C	6 in	0.25 in	3-Wire Pt100	Bare Wire	316 Stainless Steel	**5ZY14**
0° to 900°F/-18° to 482°C	±0.30°C/±0.12 ohm at 0°C	6 in	0.188 in	3-Wire Pt100	Bare Wire	316 Stainless Steel	**20XJ91**
		6 in	0.188 in	3-Wire Pt1000	Bare Wire	316 Stainless Steel	**3FWX4**
0° to 1,200°F/-18° to 650°C		6 in	0.188 in	3-Wire Pt100	Bare Wire	316 Stainless Steel	**3FWX5**
Threaded RTD Probes with Conduit Connection							
AHU Monitoring, Building Automation, Chiller or Boiler Loops, VAV Temperature Sensing							
-40° to 302°F/-40° to 150°C	±0.15°C, ±0.22°C	4 in	0.25 in	2-Wire 100 ohm	Terminal Block	304 Stainless Steel	**6CUD9**
		8 in	0.25 in	2-Wire 100 ohm	Terminal Block	304 Stainless Steel	**6CUE1**
		4 in	0.25 in	2-Wire 1,000 ohm	Terminal Block	304 Stainless Steel	**6CUE3**
		12 in	0.25 in	2-Wire 1,000 ohm	Terminal Block	304 Stainless Steel	**6CUE6**
Appliances, Duct, Food and Beverage, HVAC, Ovens, Packaging, Pharmaceutical							
0° to 392°F/-18° to 200°C	±0.15°C/±0.06 ohm at 0°C	6 in	0.25 in	3-Wire Pt100	Connection Head with Terminal Block	316 Stainless Steel	**5FYH8**
		12 in	0.25 in	3-Wire Pt100	Connection Head with Terminal Block	316 Stainless Steel	**5FYH9**
		18 in	0.25 in	3-Wire Pt100	Connection Head with Terminal Block	316 Stainless Steel	**5FYJ0**
		24 in	0.25 in	3-Wire Pt100	Connection Head with Terminal Block	316 Stainless Steel	**5FYJ1**
Food and Beverage, Pharmaceutical, Process							
-76° to 400°F/-60° to 204°C	±0.15°C	4 in	0.25 in	4-Wire 100 ohm	Bare Wire	316L Stainless Steel	**6PEY7**
		6 in	0.25 in	4-Wire 100 ohm	Bare Wire	316L Stainless Steel	**6PEY8**
		12 in	0.25 in	4-Wire 100 ohm	Bare Wire	316L Stainless Steel	**6PEY9**

5ZPF4

4YV90

6MRN1

6RGL2

Cooper ATKINS® EXTECH INSTRUMENTS FLUKE.

Wide-Application Handheld Thermocouple Meters & Probes

- NIST units include a certificate of calibration

Handheld thermocouple meters are used with different probes to measure surface and ambient temperatures, as well as for immersion and penetration applications. Can be used to measure contact temperature inputs on motors, insulation, breakers, pipes, connections, liquids, and wires with J-, K-, or T-type thermocouple temperature sensors. Commonly used for general preventative maintenance in industrial, HVAC, and electrical applications.

Data-logging meters can be used with compatible devices such as PCs or smartphones.

Type K Probes—Compression-fitting probes securely mount temperature sensors that measure liquid, air, and gas. Built with strong 316 stainless steel components that resist high temperatures and corrosion. Commonly used for with pyrometers for measuring the temperature of fuel and exhaust gas in extreme temperatures and harsh environments.

Direct-connect probes do not have a cord or cable and are not intended for permanent or fixed installations. Also known as quick-disconnect probes, they consist of a sensor and 3-pin connection type. Often used where quick installation and removal are important requirements of the measuring device.

Flex-wire probes have an insulated cable with a beaded junction on the sensing end. The terminal end is connected to a meter or receiver.

Handheld probes have a straight or coiled cable with a terminal connection like a mini plug or 3-pin connector that pairs them with a meter or receiver. Commonly used for manual inspection, maintenance, and other general temperature measurements.

For Thermocouple Type	Temp. Range (F)	Res.	Accuracy	Data Output Type	Included Probes	No. of Channels	Brand	STANDARD Item No.	NIST Item No.
Wide-Application Handheld Thermocouple Meters									
Type K	-100° to 500°	0.1°, 1°	±0.9°F/±0.5°C	None	MicroNeedle Probe Model 55040	—	Cooper Atkins	—	3LZC5
		0.1°, 1°	±0.9°F/±0.5°C	None	DuraNeedle Probe Model 55032	—	Cooper Atkins	—	3LZA6
	-100° to 999°	0.1°	±0.5°F/±0.3°C	None	50209-K Probe	—	Cooper Atkins	—	3LZA2
		0.1°, 1°	±0.5°F/±0.3°C	None	—	—	Cooper Atkins	—	3TPP5
	-200° to 1999°	0.1°	±0.3% +2°F/1°C	None	(2) Type K Bead Wire Temperature Probe	2	Extech	1ZKY2	1ZKY4
Type E, Type J, Type K, Type T	Type E -418° to 1832°, Type J -346° to 2192°,	0.1°C, 1°C	±0.05% + 0.3°C	USB	(2) 80PK-1 Bead Probe	—	Fluke	4YV90	4YV89
	Type K -328° to 2501°, Type T -418° to 752°	0.1°C, 1°C	±0.05% + 0.3°C	USB	(1) 80PK-1 Bead Probe	—	Fluke	4YV88	4YV87
Type J, Type K	Type J -328° to 1922°, Type K -328° to 2498°	0.2°F/0.1°C	±0.05% +0.6°F/0.3°C	None	(2) Type K Bead Temperature Probe	2	Extech	4PC60	6RGK5
	Type J -346° to 2012°, Type K -328° to 2501°	0.1°, 1°	±0.15% +1°C	None	Type K Bead Wire Temperature Probe	1	Extech	5GCD1	5GCD2
Data-Logging Wide-Application Handheld Thermocouple Meters									
Type K	-58° to 1999°	0.1°, 1°	±0.3% +2°F/1°C	None	Type K Bead Wire Temperature Probe	1	Extech	1LYR5	1LYR6
Type E, Type J, Type K, Type N, Type R, Type S, Type T	Type E -200° to 1598°, Type J -200° to 1994°, Type K -200° to 1999°, Type N -200° to 1999°, Type R 32° to 1999°, Type S 32° to 1999°, Type T -200° to 752°	0.1°	±0.05% +1.5°F/+0.75°C (Types J, K, E, T, N), ±0.05% +4°F/+2°C (Types R, S)	RS-232, SD Card	(2) Type K Bead Wire Temperature Probe	2	Extech	3WU66	6RGL2
	Type E -238° to 1832°, Type J -346° to 2192°, Type K -328° to 2501°, Type N -328° to 2372°, Type R 32° to 3212.6°, Type S 32° to 3212.6°, Type T -418° to 752°	0.1°C, 1°C	±0.05% + 0.3°C	USB	(1) 80PK-1 Bead Probe	—	Fluke	6MRN0	6MRN2
		0.1°C, 1°C	±0.05% + 0.3°C	USB	(2) 80PK-1 Bead Probe	—	Fluke	6MRN1	6MRN3

Temperature Range	Probe Length	Probe Diameter	Cable Material	Cable Length	Item No.
Compression Fitting Thermocouple Probes					
Air, Liquid					
-40° to 400°F/-40° to 205°C	7.3 in	0.188 in	Flexible Stainless Steel Armored Sheath	30 in	3PEX6
Direct Connect Thermocouple Probes					
Air, Gas, Liquid					
-325° to 2,280°F/-200° to 1,250°C	6 in	0.125 in	Magnesium Oxide Insulation	6 in	36GL14
	12 in	0.125 in	Magnesium Oxide Insulation	12 in	36GK71
	18 in	0.125 in	Magnesium Oxide Insulation	18 in	36GK72
	24 in	0.125 in	Magnesium Oxide Insulation	24 in	36GK79
Flex-Wire Probes					
Air, Gas					
-328° to 400°F/-200° to 205°C	15 ft	0.188 in	FEP Outer Jacket	15 ft	3PEY8
-100° to 500°F/-73° to 260°C	4 in	0.125 in	Polyurethane Outer Jacket	12 in (Coiled)/48 in (Extended)	3PEY3
Air, Gas, Liquid					
-100° to 600°F/-73° to 316°C	2.13 in	0.25 in	Stainless Steel Overbraid	43 in	3PEX9
Air, Liquid					
-40° to 500°F/-40° to 260°C	5.5 in	0.188 in	Stainless Steel Overbraid	35 in	3PEY7
Air, Liquid, Surface					
-40° to 400°F/-40° to 204°C	4 ft	0.188 in	Teflon	4 ft	3LRX6
Handheld Thermocouple Probes					
Air, Surface					
-40° to 400°F/-40° to 205°C	4 in	0.125 in	Silicone Outer Jacket	24 in	3PEV9
-40° to 500°F/-40° to 260°C	4.5 in	0.375 in	Polyurethane Outer Jacket	12 in (Coiled)/48 in (Extended)	3PEW9
-40° to 1,202°F/-40° to 650°C	4 in	0.438 in	Polyurethane Outer Jacket	12 in (Coiled)/48 in (Extended)	3PEY1
	5 in	0.438 in	Polyurethane Outer Jacket	12 in (Coiled)/48 in (Extended)	3PEY2
Surface					
-58° to 932°F/-50° to 500°C	7.9 in	0.5 in	Polyurethane Jacket	39 in	161D92
-4° to 450°F/-20° to 232°C	5 in			36 in	4YKT1

Multi-Channel Handheld Temperature Meters

- NIST units include a certificate of calibration

Compatible with thermocouples, thermistors, and RTDs to measure different types of samples simultaneously. Models with built-in data-logging feature allow data to be stored, transferred, and uploaded to external sources like a PC.

56HN59

4FFH7

6XAK0

Temperature Meter Type	Temp. Range (F)	Res.	Accuracy	Memory	No. of Channels	Brand	STANDARD Item No.	NIST Item No.
Data-Logging Handheld Multi-Channel Temperature Meters								
RTD/Thermocouple with Data Output and Min/Max	Type E -58° to 1652°, Type J -148° to 2192°, Type K -148° to 2372°, Type R 32° to 3092°, Type S 32° to 2732°, Type T -58° to 752°	0.1°, 1°	±0.4% +1.8°F/1°C (Types J, K, E, T, Pt100), ±0.5% +2°F/1°C (Types R, S)	Min/Max	6	Extech	**13X127**	**13X128**
Thermocouple/Thermistor/ RTD with Data Output	Type K -328° to 2498°, Type R 4° to 3182°, Type S 4° to 3182°	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	**4FFH7**
	Type K -328° to 2498°, Type R 4° to 3182°, Type S 4° to 3182°	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	1	Fluke	—	**4FFH5**
	328° to 1832°F, 328° to 4199°F, 58° to 302°F	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	**444L71**
	328° to 1832°F, 328° to 4199°F, 58° to 302°F	0.001°	±0.002°C (Precision Thermistors), Up to ±0.011°C (PRTs), ±0.24°C (J,K,L,M Thermocouples)	Calibration Information	2	Fluke	—	**444L72**
Thermocouple with Data Output and Min/Max	-327.9° to 1562°	0.1°F/0.1°C, 1°F/1°C	±0.4% +1.8°F/1°C	Min/Max	2, 4	Reed Instruments	**56HN59**	—
Handheld Multi-Channel Temperature Meters								
RTD/Thermocouple with Data Output and Min/Max	-148° to 3092°	0.1°F/0.1°C, 1°F/1°C	±0.44% +1.8°F (1,000° to 1,562°F), ±0.4% +1.8°F (RTD: -327° to 999°F/-200° to 537°C), ±0.4% +2°F (Thermocouple: -328° to 2,498°F/-200° to 1,370°C)	Min/Max	4	General	**6XAK0**	—

TRACEABLE®

Critical Environment Digital Thermometers

- Include NIST-traceable certificate of calibration

Digital thermometers use an external bottle, bullet, and immersion probe to take measurements. The bottle is placed into a specific environment like a freezer or oven, and temperature readings are shown on the digital display. Capture max./min. temperatures as well as current temperature.

Thermometers with onboard data-logging allow recorded data to be transferred to a PC or Mac with a wired connection.

Thermometers with remote monitoring have an onboard data-logging feature that allows recorded data to be transferred to a PC or Mac without a wired connection. Data values can be stored via cloud or transmitted over Wi-Fi.

Thermometers with humidity measurement measure and log relative humidity and temperature levels.

3KTU9

52CE41

Temp. Range (F)	Res.	Accuracy	Cable Length	Probes Included	Item No.
Critical Environment Digital Thermometers					
-40° to 176°F	0.1°F/0.1°C	±1.5°C	6 ft	(1) Wire Bullet Probe	**6KEA2**
-58° to 158°F	0.1°F/0.1°C	±0.5°C	10 ft	(1) Glycol Filled 5 mL Glass Vaccine Bottle Probe	**6KEA0**
	0.1°F/0.1°C	±0.5°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	**3KTV4**
	0.1°F/0.1°C	±0.5°C	10 ft	(1) Vaccine Bottle Probe	**6KEA1**
	0.1°F/0.1°C	±0.5°C at -30 to 50°C , Otherwise ±1°C	10 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	**38RJ46**
	0.1°F/0.1°C	±0.5°C at -30 to 50°C , Otherwise ±1°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	**38RJ45**
	0.1°F/0.1°C	±1°C	3.5 ft	(2) Bullet Probe	**6KED2**
	0.1°F/0.1°C	±1°C	10 ft	(1) Bullet Probe	**6KEA5**
	0.1°F/0.1°C	±1°C	10 ft	(1) Glycol Filled 5 mL Glass Vaccine Bottle Probe	**6KEA7**
	0.1°F/0.1°C	±1°C	10 ft	(1) Glycol Filled 15 mL Bottle Probe	**6KEA6**
	1°F/1°C	±1°C	10 ft	(1) Bottle Probe	**6KDZ8**
	1°F/1°C	±1°C	10 ft	(1) Glycol Filled 5 mL Glass Vaccine Bottle Probe	**6KDZ9**
	1°F/1°C	±1°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	**3KTU9**
Critical Environment Digital Thermometers with Onboard Data Logging					
-58° to 158°F	0.01°F/0.01°C	±0.25°C	10 ft	(1) Plastic Bullet Probe	**33HP66**
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Plastic Bullet Probe	**33HP73**
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe	**33HP71**
	0.01°F/0.01°C	±0.25°C	10 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	**33HP72**
	0.01°F/0.01°C	±0.25°C	10 ft	(1) Glycol Filled 15 mL Glass Bottle Probe, (1) Plastic Bullet Probe	**33HP75**
Critical Environment Digital Thermometers with Remote Monitoring & Data Logging					
-58° to 140°F	0.1°F/0.1°C	±0.25°C	9 ft	(2) Plastic Bullet Probes	**52CE43**
	0.1°F/0.1°C	±0.25°C	9 ft	(2) Stainless Steel Penetration Probes	**52CE44**
	0.1°F/0.1°C	±0.25°C	9 ft	(2) Glycol Filled 15 mL Glass Bottle Probes	**52CE41**
	0.1°F/0.1°C	±0.25°C	9 ft	(1) Glycol Filled 15 mL Glass Bottle Probe, (1) Plastic Bullet Probe	**52CE42**
-130° to 221°F	0.1°F/0.1°C	±0.1°C	9 ft	(1) Stainless Steel Penetration Probe	**52CE45**
	0.1°F/0.1°C	±0.1°C	9 ft	(1) Stainless Steel Penetration Probe	**52CE46**
Critical Environment Digital Thermometers with Remote Monitoring, Data Logging & Humidity Measurement					
32° to 131°F	0.1°F/0.1°C/0.1% RH	±0.4°C/±3%	6 ft	(1) Ambient Temperature/Humidity Sensor	**52CE47**
	0.1°F/0.1°C/0.1% RH	±0.4°C/±3%	6 ft	(1) Cabled Ambient/Humidity Sensor	**52CE48**

52CE47

Glass Bead Filled
12L976

Glycol Filled
8RLT5

Sand Filled
8WYC1

Critical Temperature Analog Bottle Thermometers

- NIST certified

Bottles are filled with a biosafe material intended to mimic the critical samples that need to be measured. An analog thermometer is inserted into the bottle for easy temperature readings. Bottles are placed into the environment that needs to be monitored, and the temperature reading mimics the temperature of the critical samples. Bottles are shatter resistant and not impacted by power outages, opening and closing of doors, or other sudden changes. Designed primarily for temperature verification. Commonly used in blood banks, pharmacies, hospitals, and laboratories.

Temperature Range	Graduations	Accuracy	Overall Height	Bottle Fill	Item No.
For Blood Bank, Vaccine & Critical Refrigeration Environments					
Celsius					
-5° to 15°C	0.5°C	±0.5°C	180 mm	Enviro-Safe® Liquid - 30 mL	**12L946**
	0.5°C	±1°C	125 mm	Glycol - 30 mL	**8RLT4**
	0.5°C	±1.5°C	130 mm	Glycol - 30 mL	**8AU73**
-5° to 20°C	0.5°C	±0.5°C	200 mm	Enviro-Safe® Liquid - 30 mL	**12L959**
-2° to 10°C	0.1°C	±0.2°C	135 mm	Enviro-Safe® Liquid - 60 mL	**12L951**
	0.1°C	±0.4°C	135 mm	Glass Beads - 60 mL	**12L969**
10° to 30°C	0.5°C	±1°C	140 mm	Glycol - 30 mL	**8UU08**
15° to 30°C	0.1°C	±0.4°C	180 mm	Glass Beads - 60 mL	**12L970**
Fahrenheit					
20° to 60°F	2°F	±2°F	180 mm	Glass Beads - 30 mL	**12L980**
20° to 70°F	1°F	±1°F	135 mm	Enviro-Safe® Liquid - 30 mL	**12L965**
For Freezers & Ultra-Low Freezers					
Celsius					
-90° to 25°C	1°C	±1°C, ±2.5°C Below -40°C, ±2°C from -1° to -40°C	125 mm	Glass Beads - 30 mL	**12L945**
	1°C	±1.5°C, ±2.5°C Below -50°C	200 mm	Glass Beads - 30 mL	**12L976**
-30° to 0°C	0.5°C	±1°C	125 mm	Glycol - 30 mL	**8AU74**
	0.5°C	±1.5°C	130 mm	Glycol - 30 mL	**8UU06**
-30° to 1°C	0.5°C	±0.5°C	190 mm	Enviro-Safe® Liquid - 30 mL	**12L947**
	0.5°C	±0.5°C	145 mm	Enviro-Safe® Liquid - 30 mL	**12L958**
	0.5°C	±0.75°C	125 mm	Glass Beads - 30 mL	**12L973**
-25° to -5°C	0.1°C	±0.2°C	210 mm	Enviro-Safe® Liquid - 60 mL	**12L950**
-2° to 10°C	0.1°C	±0.2°C	135 mm	Enviro-Safe® Liquid - 60 mL	**12L941**
Fahrenheit					
-130° to 80°F	2°F	±2°F	125 mm	Glass Beads - 30 mL	**12L967**
-20° to 35°F	1°F	±1°F	145 mm	Enviro-Safe® Liquid - 30 mL	**12L964**
For Incubators & Water Baths					
Celsius					
-5° to 20°C	0.5°C	±0.75°C	135 mm	Glass Beads - 30 mL	**12L975**
10° to 45°C	0.5°C	±0.5°C	145 mm	Glass Beads - 30 mL	**12L977**
15° to 30°C	0.1°C	±0.2°C	145 mm	Enviro-Safe® Liquid - 60 mL	**12L952**
15° to 50°C	0.5°C	±0.5°C	135 mm	Enviro-Safe® Liquid - 30 mL	**735W53**
	0.5°C	±0.75°C	145 mm	Glass Beads - 30 mL	**12L978**
18° to 50°C	0.5°C	±1°C	135 mm	Glycol - 30 mL	**8RLT5**
	0.5°C	±1.5°C	140 mm	Glycol - 30 mL	**9FAN0**
25° to 45°C	0.1°C	±0.2°C	135 mm	Enviro-Safe® Liquid - 60 mL	**12L953**
Fahrenheit					
60° to 120°F	1°F	±1°F	180 mm	Enviro-Safe® Liquid - 30 mL	**12L966**
For Lab Ovens					
Celsius					
20° to 130°C	1°C	±1.5°C, ±2°C Above 100°C	180 mm	Glass Beads - 30 mL	**12L979**
	1°C	±2°C	135 mm	Sand - 30 mL	**8WYC1**
50° to 200°C	2°C	±2.5°C, ±5°C Above 100°C	125 mm	Glass Beads - 30 mL	**12L981**
95° to 115°C	0.1°C	±0.4°C	135 mm	Glass Beads - 30 mL	**12L944**
	0.1°C	±0.4°C	135 mm	Glass Beads - 60 mL	**12L954**

WINLAND ELECTRONICS, INC.

Critical Environment Temperature Alarms

- Alarm temperature range: -58° to 299°F/-50° to 150°C
- Graphic LCD displays data with flashing alarm

Audio and visual alarms alert users if temperatures fall outside the specified range. Commonly used in research and production laboratories, blood banks, pharmacies, hospitals, and universities.

Sensor Configuration	Voltage	Item No.
2	11 to 14V DC	**33UL22**
	23 to 26V DC	**33UL23**
4	11 to 14V DC	**33UL24**
	23 to 26V DC	**33UL25**

5-Piece Kit
52ET91

Cooper ATKINS®

NotifEye™ Wireless Temperature Monitoring Systems

52ET83

- Temp. range: -25° to 180°F
- Wireless range: 2500 ft.
- 900 MHz

Cloud-based system provides an easy, efficient solution for monitoring critical environments. System data is accessible online 24/7, while out-of-range notifications are sent in real time as e-mail and text alerts. Sensors pass information wirelessly to the software database which collects and records data 24/7. Gateway Buffer 52ET88 will store 65,000 readings if the gateway is not receiving power. Wireless Temperature Sensors are battery operated and monitor against preset conditions that are user-defined within the NotifEye application. Wireless Humidity Sensor 52ET86 measures 0% to 90% relative humidity. Wireless Contact Sensor 52ET87 allows for remote signal activation.

Item	Includes	Mfr. Model	Item No.
Wireless Critical Environment Monitoring Systems & Starter Kits			
Gateway Receiver Kit	Buffer, Receiver	15515	**52ET90**
Gateway Kit	(1) Gateway, (4) Temperature Sensor	15906	**52ET91**
Gateway Kit	(1) Gateway, (2) Temperature Sensor	15907	**52ET92**
Wireless Monitoring Starter Kit	(2) Temperature Sensor, Hosted Subscription Software, NIST Traceable Calibration Certificate, NotifEye Base Station	15907-032	**423N23**
Consoles, Gateways & Receivers for Critical Environment Wireless Monitoring Systems			
Gateway Receiver	Ethernet Cable	15504	**52ET89**
Gateway Buffer	Gateway Cable, Power Cable	15513G	**52ET88**
Temperature Sensors, Transmitters & Probes for Critical Environment Wireless Monitoring Systems			
Wireless Temperature Sensor	10 ft Probe, Battery, Transmitter	15200	**52ET83**
Wireless Temperature Sensor	30 ft Probe, Battery, Transmitter	15200-10	**52ET84**
Wireless Temperature Sensor	Battery, Humidity Transmitter	15200-30	**52ET85**
Wireless Humidity Sensor	Battery, Contact Transmitter	15220	**52ET86**
Wireless Contact Sensor	Battery, Contact Transmitter	15230	**52ET87**
Solid Simulator	—	10185	**52ET94**
Housings & Accessories for Wireless Monitoring Systems			
Waterproof Enclosure	—	10110	**52ET93**

Desk or Wall Mount Temperature & Humidity Meters

Meters with cabled sensors provide multiple readings: ambient temperature and humidity via the base's own sensor and remote readings from the location of the remote sensor. Cabled sensors are typically probes placed into containers, on a piece of electronic equipment, or on another moderate low- or high-temperature device.

Clocks with temperature & humidity sensors display the current time, temperature, and relative humidity. 2HPF5 is radio controlled to automatically adjust time via NIST time code.

Direct-reading digital meters measure and display both temperature and humidity.

5PE78

2HPF5

4PC65

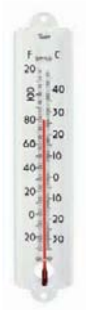
Secondary Scale	Base Temperature Range	Included Probes	Accuracy	Digital Display	Item No.
Meters with Cabled Sensors					
Primary Scale: Indoor Humidity/Temperature					
Outdoor Humidity/ Temperature	14 to 140°F/-10 to 60°C	—	±1.8°F/±1°C/±4% RH	2-Digit LCD Display	**5PE75**
Primary Scale: Indoor Temperature					
Outdoor Temperature	14° to 140°F/-10° to 60°C	—	±1.8°F /±1°C	1 in 4-Digit LCD Display - 1 in Digit Height	**4FB69**
Primary Scale: Humidity					
Dew Point/ Temperature	14 to 140°F/-10 to 60°C	Extendable Probe with 18 in Cable	±1.8°F/±1°C/±4% RH	3-Digit LCD Display	**5PE71**
Primary Scale: Outdoor Temperature					
Indoor Temperature	-40° to 158°F/-40° to 70°C	10 ft Probe	±2°F/±2°C	4-Digit LCD Display	**48TA31**
Primary Scale: Temperature					
—	20° to 120°F/-29° to 50°C	(2) 3 m Probes	±1.8°F /±1°C	4-Digit LCD Display	**3NE56**
—	-40° to 158°F/-40° to 70°C	Stainless Steel Probe with 9.6 ft Cable	±0.9°F from 32° to 75°F/±0.5°C from 0° to 24°C	4-Digit LCD Display	**21EN92**
Humidity	14 to 140°F/-10 to 60°C	Extendable Probe with 18 in Cable	±1.8°F/±1°C/±4% RH	4-Digit LCD Display	**5PE76**
Humidity	14 to 140°F/-10 to 60°C	—	±1.8°F/±1°C/±4% RH	4-Digit LCD Display	**5PE78**

Secondary Scale	Temperature Range	Humidity Range	Accuracy	Digital Display	Item No.
Clocks with Temperature & Humidity Sensors					
Primary Scale: Time					
Date/Day/Humidity/Temperature	32° to 122°F/ 0° to 50°C	20% to 99% RH	±2°F/ ±1°C/ ±6% RH	11.5 in H x 16.75 in W 4-Digit LCD Display - 4.3 in Digit Height	**2HPF5**
Humidity/Temperature, Temperature	14° to 140°F/-10° to 60°C	10% to 85% RH	±1.8°F/±1°C/±6% RH	2.8 in H x 0.8 in W 4-Digit Backlit LCD Display - ½ in Digit Height	**3ZH92**
Direct-Reading Meters					
Primary Scale: Comfort Index					
Humidity/Temperature/Time	14°F to 122°F/-10°C to 50°C	20% to 90%	±2°F/±1°C/±5% RH	2 1/16 in H x 3 in W 3-Digit LCD Display - 5/8 in Digit Height	**48TA32**
Primary Scale: Humidity					
Dew Point/Temperature	14° to 140°F/-10° to 60°C	10% to 99%	±1.8°F/±1°C/±4% RH	4.3 in H x 3.9 in W 3-Digit Backlit LCD Display - 1.5 in Digit Height	**3LRV4**
Temperature	14° to 140°F	10% to 99%	±2°F/±5% RH	1 ½ in H x 2 in W 3-Digit Backlit LCD Display - 1 in Digit Height	**30ZU96**
Temperature	32° to 122°F/0° to 50°C	16% to 98%	±2°F/±5% RH	2.2 in H x 1.5 in W 2-Digit LCD Display - 45/64 in Digit Height	**53DP73**
Primary Scale: Temperature					
Humidity	14° to 140°F/-10° to 60°C	10% to 99%	±1.8°F/±1°C/±5% RH	2 in H x 3 ½ in W 4-Digit Backlit LCD Display - 1 in Digit Height	**4PC65**

Wall-Mount Analog Thermometers & Hygrometers

Choose from easy-to-read dial thermometers or traditional liquid-in-glass vertical units. Durable Indoor/Outdoor units are weather resistant. Commonly mounted on walls in warehouses and other industrial facilities.

Wall-Mounted Dial Thermometer 3LYK1



Wall-Mounted Liquid-in-Glass Thermometer 2T706

Temp. Range (F)	Humidity Range	Temperature Graduations	Overall Dim.	Mounting Type	Dial Design	Item No.
Wall-Mounted Dial Thermometers						
Indoor/Outdoor						
-60° to 140°	—	2°F	12 ½ in dia	(2) 3 mm Mount Hole	Black Scale on White Dial	**3LYK1**
-60° to 120°	—	2°F/1°C	5 in dia	(4) 5 mm Mount Hole, Side Bracket	Black Scale on White Dial	**53DP74**
-40° to 140°	—	2°F/1°C	8 in dia	(2) 5 mm Mount Hole	Black Scale on White Dial	**53DP75**
Indoor						
-60° to 120°	—	2°F/10°C	12 in dia	(1) 0.6 in Mount Hole	Black Scale on White Dial	**49T439**
-40° to 120°	—	2°F/2°C	10 in dia	(1) 0.6 in Mount Hole	White Scale on Black Dial	**49T436**
Commercial and Residential, Storage Areas, Indoor/Outdoor, Food Preparation, Cold Rooms/Refrigerators						
-60° to 120°	—	2°F	18 in dia	(2) ¼ in Mount Hole	Black Scale on White Dial (F)/White Scale on Black Dial (C)	**3T195**
Wall-Mounted Liquid-in-Glass Thermometers						
Indoor/Outdoor						
-40° to 120°	—	2°F	9 ¼ in H x 2 ¾ in W x ¼ in D	(2) ⅛ in Mount Hole	Blue/Red Scale with Nontoxic Liquid Fill	**2T707**
	—	2°F	8 ½ in H x 7 ⅞ in W x 1 in D	Mounting Holes	Black Scale on a White Dial with Mercury-Free Fluid	**3LPD7**
	—	2°F	8 ¾ in H x 2 ¾ in W x ¾ in D	(2) ⅛ in Mount Hole	White Scale with Magnet Reset Push Button	**3JPG5**
Outdoor Orchard/Grove						
10/100	—	1°F	1 ¼ in H x 10 in W x ⅜ in D	(2) ⅛ in Mount Hole	Black Scale	**3JPK6**
Cold Rooms/Refrigerators						
+/-1°	—	1°F	12 in H x ⅜ in D	(2) ⅛ in Mount Hole	Black Scale with Nontoxic Liquid Fill	**2T705**
+/-2°	—	2°F	12 in H x ⅜ in D	(2) ⅛ in Mount Hole	Black Scale with Nontoxic Liquid Fill	**2T706**
Wall-Mount Dial Temperature & Humidity Gauges						
Indoor/Outdoor						
-40° to 120°	0% to 100%	2°F/1°C	12 in dia	Back Hanger	Black Scale on White Dial	**3LRD3**
Indoor						
30° to 250°	0% to 100%	2°F/2°C	147 mm dia	(1) 8 mm Mount Hole	Black Scale on White Dial	**3LYU4**
	0% to 100%	2°F/2°C	147 mm dia	(1) 8 mm Mount Hole	Black Scale on Gold Dial	**49T438**
-40° to 120°	0% to 100%	2°F/2°C	10 in dia	(1) 0.6 in Mount Hole	White/Red Scale on Black Dial	**49T437**
Greenhouse, Laboratory						
-22° to 122°	25% to 80%	2°F	10 ¾ in dia	(1) 5/16 in Mount Hole	White Scale on Blue Dial	**9DN75**
Storage Areas, Greenhouse, Laboratory, Office						
0° to 160°	20% to 100%	—	5 in dia	Mounting Bracket for Wall	Black Scale on White Dial	**8NCJ0**

Direct Reading K3148

Remote Reading G2658

Panel-Mount Dial Thermometers

Industrial thermometers mount to panels with the dial face positioned for easy viewing and monitoring.

Direct Reading thermometers have a stainless steel housing, glass lens, and bimetal stem. Three mounting holes provide secure attachment to a panel.

Remote Reading thermometers allow users to monitor temperatures remotely. Analog dial face mounts to a panel or other cutout, while the cabled probe is positioned in the location or process to be measured. Commonly used to monitor the temperature of liquids or gases flowing through pipes or contained in tanks.

Dial Diameter	Process Connec.	Mounting Style	Probe Diameter	Probe Length	▶CHOOSE: Temperature Range	Accuracy	Item No.
Direct Reading - Stainless Steel Probe w/ Bimetal Sensor							
Fahrenheit							
2.5 in	¼ in MNPT	Front Flange	0.25 in	4 in, 6 in, 9 in	-40° to 160°F, 0° to 200°F	±2%	**K3148**
Remote Reading - Copper Probe w/ Vapor-Actuated Sensor							
Celsius, Fahrenheit							
6 in	½ in MNPT with 5 ft Cable	Back Flange	0.437 in	3.4 in	-20° to 100°F/-28° to 37°C	±1% Scale Division	**2CYP3**
		Back Flange	0.437 in	3.4 in	0° to 150°F/-17° to 65°C	±1% Scale Division	**2CYP4**
		Back Flange	0.437 in	3.4 in	0° to 180°F/-17° to 82°C	±1°F Scale Division	**2CYP5**
		Back Flange	0.437 in	3.4 in	100° to 350°F/37° to 176°C	±1°F Scale Division	**2CYP7**
Fahrenheit							
3.5 in	½ in MNPT with 5 ft Cable	Bracket Mount	0.4 in	2 in	0° to 100°F, 30° to 180°F, 30° to 240°F	±1°F Scale Division	**G2658**
		U-Clamp	0.4 in	2 in	0° to 160°F, 30° to 240°F	±1°F Scale Division	**G2662**
		Front Flange	0.4 in	2 in	0° to 100°F, 0° to 160°F, 30° to 180°F, 30° to 240°F, 100° to 350°F	±1°F Scale Division	**G2660**
		Back Flange	0.4 in	2 in	0° to 100°F, 0° to 160°F, 30° to 180°F, 30° to 240°F	±1°F Scale Division	**G2664**
		Back Flange	0.4 in	2 in	30° to 240°F, 30° to 180°F, 0° to 100°F, 0° to 160°F	±1°F Scale Division	**G2666**
	½ in MNPT with 10 ft Cable	Bracket Mount	0.4 in	2 in	30° to 240°F	±1°F Scale Division	**G2659**
		U-Clamp	0.4 in	2 in	0° to 160°F, 100° to 350°F	±1°F Scale Division	**G2663**
		Front Flange	0.4 in	2 in	0° to 160°F, 30° to 180°F, 100° to 350°F	±1°F Scale Division	**G2661**
		Back Flange	0.4 in	2 in	30° to 180°F, 30° to 240°F, 100° to 350°F	±1°F Scale Division	**G2665**
		Back Flange	0.4 in	2 in	0° to 160°F, 100° to 350°F	±1°F Scale Division	**G2667**
4.5 in	½ in MNPT with 5 ft Cable	Front Flange	0.4 in	2 in	30° to 180°F, 30° to 240°F, 30° to 300°F, 200° to 450°F	±1°F Scale Division	**G2668**
		Back Flange	0.4 in	2 in	0° to 100°F, 30° to 300°F	±1°F Scale Division	**G2670**
	½ in MNPT with 10 ft Cable	Front Flange	0.4 in	2 in	30° to 300°F	±1°F Scale Division	**G2669**
		Back Flange	0.4 in	2 in	30° to 180°F, 30° to 240°F, 30° to 300°F	±1°F Scale Division	**G2671**
6 in	½ in MNPT with 5 ft Cable	Back Flange	0.437 in	3.4 in	40° to 240°F	±1°F Scale Division	**2CYP6**
		Back Flange	0.4 in	2 in	0° to 100°F, 30° to 180°F, 30° to 240°F	±1°F Scale Division	**G2672**
	½ in MNPT with 10 ft Cable	Back Flange	0.4 in	2 in	30° to 180°F, 30° to 300°F	±1°F Scale Division	**G2673**

5XL18

3KTW3

Panel-Mount Digital Thermometers

- LCD displays
- 0.1°F/0.1°C resolution, unless otherwise noted

Thermometers can be mounted to panels in a fixed position with an external probe that measures and monitors temperature. Commonly used to monitor the temperature of liquids or gases flowing through pipes or contained in tanks. Unit with temperature alarm audibly alerts users when temperatures are out of range.

Temperature Range	Thread Size	Cable Length	Probe Size	Digital Display	Accuracy	Mounting Style	Item No.
General Purpose Industrial Panel-Mount Digital Thermometers							
Thermistor Sensor							
-58° to 500°F/-50° to 250°C	—	10 ft	0.14 in-dia. x 5.75 in L	2 in Dia Display with 5-Digit Backlit LCD - ⅜ in Digit Height	±1.0°C	Clip, Flip-Open Stand, Magnetic Back	**3KGN1** *
-58° to 572°F/-50° to 300°C			0.14 in-dia. x 5.75 in L	2 in Dia Display with 5-Digit Backlit LCD - ⅜ in Digit Height	±1.0°C	Clip, Flip-Open Stand, Magnetic Back	**3KGP4** *
-50° to 300°F/-45° to 150°C	½ in MNPT	15 ft	0.4375 in-dia. x 2.5 in L	0.5 in H x 1 in W Display with 3-Digit LCD - ½ in Digit Height	1%	Back Flange, Surface Mount	**56LM33**
			0.4375 in-dia. x 2.5 in L	0.5 in H x 1 in W Display with 3-Digit LCD - ½ in Digit Height	1%	Panel Mount, Semi-Flush	**56LM36**
-40° to 300°F/-40° to 150°C	—	10 ft	0.25 in-dia. x 10 ft L	LCD Display - ½ in Digit Height	±1.8°F	Flush, Surface Mount	**5XL18**
-40° to 572°F/-50° to 300°C			0.15 in-dia. x 4.75 in L	1.75 in Dia Display with 5-Digit Backlit LCD - ¼ in Digit Height	±1°C	Hook-and-Loop Strips, Magnetic Strip, Suction Cups	**3KTW3** *
Panel-Mount Digital Thermometers with Temperature Alarm							
Semi-Conductor Sensor							
-58° to 158°F/-50° to 70°C	—	10 ft	0.0625 in-dia. x 10 ft L	0.82 in x 1.88 in Display with 4-Digit Backlit LCD - ⅝ in Digit Height	±1.8°F/±1°C (Otherwise), ±1°F/±0.5°C (-4° to 122°F/-20° to 50°C)	Magnets, Suction Cups	**3LPF1**
Water-Resistant Panel-Mount Digital Thermometers							
RTD Sensor							
-328°to 1472°F/-200° to 800°C	½ in FNPT	—	—	1 ¼ in H x 3 ⅜ in W Display with 4-Digit LCD - 1 in Digit Height	±0.1°F/±0.1°C	Threaded	**6NFX0**
			—	1 ¼ in H x 3 ⅜ in W Display with 4-Digit LCD - 1 in Digit Height	±0.1°F/±0.1°C	Threaded	**6NFY6**
		2 m	—	1 ¼ in H x 3 ⅜ in W Display with 4-Digit LCD - 1 in Digit Height	±0.1°F/±0.1°C	Wall Mount Remote	**6NFX1**
			—	1 ¼ in H x 3 ⅜ in W Display with 4-Digit LCD - 1 in Digit Height	±0.1°F/±0.1°C	Wall Mount Remote	**6NFX6**
		4 m	—	1 ¼ in H x 3 ⅜ in W Display with 4-Digit LCD - 1 in Digit Height	±0.1°F/±0.1°C	Wall Mount Remote	**6NFX2**
-75° to 750°F/-58° to 399°C	½ in MNPT	5 ft	0.25 in-dia. x 4 in L	4 ½ in dia Display with 4-Digit Backlit LCD - 1 in Digit Height	±0.5°F/±0.3°C	Wall Mount Remote	**55CL50**
			0.25 in-dia. x 2.5 in L	4 ½ in dia Display with 4-Digit Backlit LCD - 1 in Digit Height	±0.5°F/±0.3°C	Wall Mount Remote	**55CL53**
		10 ft	0.25 in-dia. x 4 in L	4 ½ in dia Display with 4-Digit Backlit LCD - 1 in Digit Height	±0.5°F/±0.3°C	Wall Mount Remote	**55CL51**
			0.25 in-dia. x 2.5 in L	4 ½ in dia Display with 4-Digit Backlit LCD - 1 in Digit Height	±0.5°F/±0.3°C	Wall Mount Remote	**55CL54**
		15 ft	0.25 in-dia. x 4 in L	4 ½ in dia Display with 4-Digit Backlit LCD - 1 in Digit Height	±0.5°F/±0.3°C	Wall Mount Remote	**55CL52**

**** 0.1°F/1°C resolution***

Back-Mount Dial
1UZX6

Sanitary Clamp Dial Thermometers

- Fixed angle

Sanitary tri-clamp flange makes these thermometers suitable for use in food-processing applications when the angle of the thermometer directly installed provides optimal visibility and readability. Mount directly to sanitary connections and are easy to remove when frequent cleaning is required. Commonly used for clean-in-place and steam-in-place sanitation requirements.

Process Connec.	Temperature Range	Stem Length	Temperature Graduations	Accuracy	3 in Dia. Item No.	5 in Dia. Item No.
Side- & Bottom-Mount Fixed-Angle Sanitary Clamp Dial Thermometers						
1 ½ in Triclamp	-40° to 120°F	2.5 in	2°F	±1%	**9CY04**	**8FL92**
		4 in	2°F	±1%	**8PNT7**	**9WY60**
		6 in	2°F	±1%	**8FJV1**	**9MUJ1**
		9 in	2°F	±1%	**8FK69**	**9LRE3**
	0° to 100°F	4 in	1°F	±2%	**8RZ69**	**8ZMH5**
		6 in	1°F	±2%	**8FK68**	**9KEV4**
		9 in	1°F	±2%	**8FL91**	**9UFD1**
	0° to 150°F	4 in	1°F	±1%	**9GV77**	**8FK82**
		6 in	1°F	±1%	**8NN67**	**9GV79**
		9 in	1°F	±1%	**9AT14**	**8FL95**
	0° to 200°F	2.5 in	2°F	±1%	**8FJU8**	**8FL93**
		4 in	2°F	±1%	**8FJV0**	**9AT17**
		6 in	2°F	±1%	**8FJV2**	**8YP86**
		9 in	2°F	±1%	**8FK72**	**8FK84**
	0° to 250°F	2.5 in	2°F	±1%	**8FJU9**	**8FL94**
		4 in	2°F	±1%	**8PNT8**	**8FK81**
		6 in	2°F	±1%	**8FJV3**	**8FK83**
		9 in	2°F	±1%	**8FL90**	**8FK86**
	50° to 300°F	2.5 in	2°F	±1%	**8TYC4**	**9AT15**
		4 in	2°F	±1%	**9FCV6**	**8UXC9**
		6 in	2°F	±1%	**8TYC5**	**8PNT9**
		9 in	2°F	±1%	**9NZ54**	**9E834**
Back-Mount Fixed-Angle Sanitary Clamp Dial Thermometers — CoC Calibration						
1 ½ in Triclamp	-40° to 160°F	4.5 in	2°F	±1%	**1UZY4**	**1UZY8**
	0° to 250°F	2.5 in	2°F	±1%	**1UZX6**	**1UZY1**
		4.5 in	2°F	±1%	**1UZY5**	**1UZY9**
	50° to 300°F		2°F	±1%	**1UZY6**	**1UZZ1**
	50° to 550°F	2.5 in	2°F	±1%	—	**1UZY3**
		4.5 in	2°F	±1%	**1UZY7**	**1UZZ2**
2 in Triclamp	-40° to 160°F		2°F	±1%	—	**1UZX1**
	50° to 300°F	2.5 in	2°F	±1%	—	**1UZW4**
		4.5 in	2°F	±1%	**1UZW8**	**1UZX3**
	50° to 550°F	2.5 in	2°F	±1%	—	**1UZW5**
		4.5 in	2°F	±1%	**1UZW9**	**1UZX4**
Back-Mount Fixed-Angle Sanitary Clamp Dial Thermometers						
1 ½ in Triclamp	-40° to 120°F	2.5 in	2°F	±1%	**8FCH2**	**9TGU9**
		4 in	2°F	±1%	**9N080**	**8YP93**
		6 in	2°F	±1%	**9FHC8**	**8FL88**
		9 in	2°F	±1%	**9UL57**	**8FL89**
	0° to 100°F	4 in	1°F	±1%	**9CX78**	**9MUJ8**
		6 in	1°F	±1%	**9WH36**	**9UFD0**
		9 in	1°F	±1%	**8NN79**	**8RZ68**
	0° to 150°F	4 in	1°F	±1%	**8FCH5**	**8FKX3**
		6 in	1°F	±1%	**8FD20**	**9FCX3**
		9 in	1°F	±1%	**8NN80**	**8FJU7**
	0° to 200°F	2.5 in	2°F	±1%	**9CX77**	**8FKX0**
		4 in	2°F	±1%	**8FCH3**	**8FKX1**
		6 in	2°F	±1%	**8FCH6**	**9NZ52**
		9 in	2°F	±1%	**8TU51**	**9R055**
	0° to 250°F	2.5 in	2°F	±1%	**8TU48**	**9CY18**
		4 in	2°F	±1%	**8FCH4**	**8FKX2**
		6 in	2°F	±1%	**8XC44**	**9NZ53**
		9 in	2°F	±1%	**9UL58**	**9JE43**
	50° to 300°F	2.5 in	2°F	±1%	**9DZU4**	**9AT13**
		4 in	2°F	±1%	**8PJK5**	**9UEX7**
		6 in	2°F	±1%	**9KJ03**	**8TYD5**
		9 in	2°F	±1%	**9CX82**	**9GV75**

3LPC2

Magnetic-Back Surface Temperature Thermometers

- Aluminum housing
- Glass lens

Dial thermometers use a magnet to securely mount to metal surfaces and provide nonintrusive measurements. Commonly used to measure surface temperatures on griddles, ovens, motors, piping, and tanks.

Temperature Range	Dial Diameter	Accuracy	Item No.
0° to 150°F/-20° to 65°C	2 in	±2%	**3LPA5**
0° to 250°F/-20° to 120°C	2 in	±2%	**3LPC6**
0° to 500°F/-20° to 260°C	2 in	±2%	**3LPA9**
50° to 750°F/10° to 400°C	2 in	±2%	**3LPC2**

1UYP7

Pipe-Mounted Surface Temperature Thermometers

- 2"-dia. dials
- ±2% accuracy
- Steel housing with glass lens

Thermometers have clamps to securely mount around pipes. The surface temperature of the pipe is shown on the dial face. Provide temporary and nonintrusive measurements.

Temperature Range	For Pipe Dia.	Graduations	Item No.
Celsius			
-40° to 120°C	¾ in to ⅞ in	2°C	**1UYR2**
	1 in to 1 ⅝ in	2°C	**1UYR9**
20° to 180°C	¾ in to ⅞ in	2°C	**1UYR3**
	1 in to 1 ⅝ in	2°C	**1UYT1**
	1 ⅝ in to 2 ⅜ in	2°C	**1UYT8**
20° to 260°C	¾ in to ⅞ in	2°C	**1UYR4**
	1 in to 1 ⅝ in	2°C	**1UYT2**
	1 ⅝ in to 2 ⅜ in	2°C	**1UYT9**
Fahrenheit			
-50° to 250°F	1 in to 1 ⅝ in	2°F	**1UYR5**
	1 ⅝ in to 2 ⅜ in	2°F	**1UYT3**
0° to 150°F	¾ in to ⅞ in	2°F	**1UYP8**
	1 in to 1 ⅝ in	2°F	**1UYR6**
	1 ⅝ in to 2 ⅜ in	2°F	**1UYT4**
70° to 370°F	¾ in to ⅞ in	5°F	**1UYP9**
	1 in to 1 ⅝ in	5°F	**1UYR7**
	1 ⅝ in to 2 ⅜ in	5°F	**1UYT5**
70° to 500°F	¾ in to ⅞ in	10°F	**1UYR1**
	1 in to 1 ⅝ in	10°F	**1UYR8**
	1 ⅝ in to 2 ⅜ in	10°F	**1UYT6**
-50° to 250°F	¾ in to ⅞ in	2°F	**1UYP7**

Scan. Order. Done.
Details on page A1.

See page 592 for thermowells.

Adjustable-Angle Mounted
1NGA1

Side- & Bottom-Mount
1NFZ4

Back Mount
1NFX9

General Purpose Thread-Mounted Dial Thermometers

- ½" NPT connection
- ±1% accuracy, except as noted

Thermometers thread onto pipe or tank connections to measure and monitor temperature. Stainless steel housing with an airtight hermetic seal on the dial face to prevent icing or fogging. Easy calibration using external adjustment screw.

Temperature Range	Stem Length	Graduations	3 in Dia. Item No.		5 in Dia. Item No.	
Adjustable-Angle Mounted						
0° to 250°F/-20° to 120°C	2.5 in	2°F/1°C	**1NGA2**		**1NGC3**	†
	4 in	2°F/1°C	**1NGA5**	†	**1NGB7**	†
	6 in	2°F/1°C	**1NGA8**	†	**1NGC1**	
	9 in	2°F/1°C	**1NGB1**	†	**1NGF4**	†
	12 in	2°F/1°C	**1NFZ9**		**1NGC6**	†
-20° to 120°F/-30° to 50°C	4 in	2°F/1°C	**1NGA4**	†	**1NGB9**	†
	6 in	2°F/1°C	**1NGA7**		**1NGC8**	
	9 in	2°F/1°C	—		**1NGC9**	
	12 in	2°F/1°C	—		**1NGC5**	
50° to 550°F/10° to 290°C	2.5 in	5°F/2°C	**1NGA3**	*	**1NGC4**	*
	4 in	5°F/2°C	**1NGA6**	*	**1NGB8**	*
	6 in	5°F/2°C	**1NGA9**	*	**1NGC2**	*
	9 in	5°F/2°C	—		**1NGF5**	*
	12 in	5°F/2°C	**1NGA1**	*	**1NGC7**	*
Back-Mount Fixed-Angle						
0° to 250°F/-20° to 120°C	2.5 in	2°F/1°C	**1NFY4**	†	**1NGE2**	
	4 in	2°F/1°C	**1NFY6**	†	**1NGE5**	†
	6 in	2°F/1°C	**1NFY9**	†	**1NGE8**	†
	9 in	2°F/1°C	**1NFZ2**	†	**1NGF2**	†
	12 in	2°F/1°C	**1NFX9**	†	**1NGD9**	†
-20° to 120°F/-30° to 50°C	4 in	2°F/1°C	**1NFY8**		**1NGE4**	
	6 in	2°F/1°C	**1NFY1**		**1NGE7**	
	9 in	2°F/1°C	**1NFY2**		**1NGF1**	
	12 in	2°F/1°C	**1NFX8**		—	
50° to 550°F/10° to 290°C	2.5 in	5°F/2°C	**1NFY5**	*	**1NGE3**	*
	4 in	5°F/2°C	**1NFY7**	*	**1NGE6**	*
	6 in	5°F/2°C	**1NFZ1**	*	**1NGE9**	*
	9 in	5°F/2°C	**1NFZ3**	*	**1NGF3**	*
	12 in	5°F/2°C	**1NFY3**	*	**1NGE1**	*
Side- & Bottom-Mount Fixed-Angle						
0° to 250°F/-20° to 120°C	2.5 in	2°F/1°C	**1NFZ4**	†	**1NGD1**	†
	4 in	2°F/1°C	**1NFZ6**	†	**1NGD3**	†
	6 in	2°F/1°C	**1NGB3**	†	**1NGD5**	†
		2°F/1°C	—		**460U95**	
	9 in	2°F/1°C	**1NGB5**	†	**1NGD7**	†
	24 in	2°F/1°C	—		**460V31**	
-20° to 120°F/-30° to 50°C	4 in	2°F/1°C	**1NFZ8**		**1NGD2**	
50° to 550°F/10° to 290°C	2.5 in	5°F/2°C	**1NFZ5**	*	—	
	4 in	5°F/2°C	**1NFZ7**	*	**1NGD4**	*
	6 in	5°F/2°C	—		**1NGD6**	*
	9 in	5°F/2°C	**1NGB6**	*	—	

** Accuracy — 151° to 450°F: ±1%, Greater than 451°F: ±1.5%, Less Than or Equal To 150°F: ±1.5%. † Accuracy — 41° to 200°F: ±1%, Greater than 201°F: ±1.5%, Less Than or Equal To 40°F: ±1.5%*

1UZU6

Dwyer®

2KLG2

Long-Reach Thread-Mounted Dial Thermometers

- Temp. range: 0° to 200°F
- 2°F graduations
- Accuracy: ±1%
- ½" NPT back connection
- ¼"-dia. stainless steel stem
- 3" dial with glass window

Extra-long stems reach remote areas. Corrosion-resistant stainless steel cases are hermetically sealed to prevent fogging or icing. Gripping Handle, sold separately, provides an easier grip.

Stem Length	Item No.
Long Reach Dial Thermometer	
12 in	**1UZU6**
18 in	**1UZU7**
24 in	**1UZU8**
36 in	**1UZU9**
48 in	**1UZV1**
60 in	**1UZV2**
72 in	**1UZV3**
Gripping Handle	
Aluminum Housing	**2KLG2**

Min./Max.-Reading Thread-Mounted Dial Thermometers

K3092

- 2°F/2°C graduations
- ±2% accuracy
- 3"-dia. dial

Primary needle displays the current temperature and a secondary needle registers min./max. temperature readings. Commonly used for oven and refrigerator temperature monitoring.

Temperature Range	▶CHOOSE: Stem Length	Item No.
-40° to 160°F/-40° to 71.1°C	2.5 in, 4 in, 6 in, 9 in, 12 in	**K3089**
0° to 140°F/-17.8° to 60°C	2.5 in, 4 in, 6 in, 9 in, 12 in	**K3092**
0° to 200°F/-17.8° to 93.3°C	2.5 in, 4 in, 6 in, 9 in, 12 in	**K3095**
50° to 300°F/10° to 148.9°C	2.5 in, 4 in, 6 in, 9 in, 12 in	**K3098**
150° to 750°F/65.5° to 398.9°C	2.5 in, 4 in, 6 in, 9 in, 12 in	**K3101**

Glow-in-the-Dark Thread-Mounted Dial Thermometers

K3130

- ½" NPT connection
- ±1% accuracy
- 2° graduations
- 5"-dia. dial

Dial face glows in low-light conditions for easy reading. Bimetal element drives the pointer to provide accurate measurements with no gears or linkages. Glass lens resists scratches, and is easy to clean and view. Corrosion-resistant stainless steel housings are hermetically sealed to prevent fogging. Commonly used in industrial settings or in laboratories.

Temperature Range	▶CHOOSE: Stem Length	Adjustable-Angle Item No.	Back-Mount Fixed-Angle Item No.
0° to 250°F	2.5 in, 4 in, 6 in, 9 in	**K3104**	**K3120**
0° to 300°F	2.5 in, 4 in, 6 in, 9 in	**K3107**	**K3122**
0° to 500°F	2.5 in, 4 in, 6 in, 9 in	**K3110**	**K3124**
20° to 240°F	2.5 in, 4 in, 6 in, 9 in	—	**K3126**
	2.5 in, 4 in, 9 in	**K3112**	—
50° to 300°F	2.5 in, 4 in	**K3114**	—
	2.5 in, 6 in, 9 in	—	**K3128**
50° to 400°F	2.5 in, 4 in, 6 in	—	**K3130**
	2.5 in, 6 in, 9 in	**K3116**	—
50° to 550°F	2.5 in, 4 in, 6 in, 9 in	—	**K3132**
	6 in	**K3118**	—

Thread-Mounted Dial Thermometers with Transmitter Output

Thermometers have a head-mounted transmitter on the side of the stem. Temperatures are displayed on the dial, and the transmitter connects to an electronic system for remote readings. Durable stainless steel housing and stem, with glass lens. Commonly used on generating boilers, skid-mounted compressors, and in thermal oxidation systems.

▶CHOOSE: Temperature Range	▶CHOOSE: Stem Length	Graduations	Dial Diameter	Item No.
-40° to 160°F, 0° to 250°F	2.5 in, 4 in, 6 in, 12 in	2°F	3 in Dia.	**D3773**
50° to 550°F	2.5 in, 6 in, 12 in	5°F	3 in Dia.	**D3773**
-40° to 160°F, 0° to 250°F	2.5 in, 4 in, 6 in, 9 in, 12 in	2°F	5 in Dia.	**D3774**
50° to 550°F		5°F	5 in Dia.	**D3774**

D3773

Adjustable-Angle HVAC & Boiler 2CYL7

Back-Mount Fixed-Angle 55CL62

Side- & Bottom-Mount Fixed Angle 55CL61

Thread-Mounted Digital Thermometers

- ½" NPT connection
- 0.1°F/0.1°C resolution

Thermometers thread directly onto pipe or tank connections to measure and monitor temperatures. The stem connects to the stainless steel housing with an easy-to-read LCD display. Battery powered or operate using solar or indoor light.

Adjustable-Angle HVAC & Boiler have an adjustable-angle display and can be positioned at different angles for easy viewing. Durable cast-aluminum case is water resistant.

Back-Mount Fixed-Angle thermometers are built with the stem mounted directly on their back. Commonly used in industrial applications.

Side- & Bottom-Mount Fixed-Angle Industrial units are built with the stem attached to the side or bottom so they can be positioned as needed for viewing.

Temperature Range	Process Connec.	Accuracy	Stem Length	Includes NIST-Traceable Certificate	Item No.
Adjustable-Angle HVAC & Boiler					
-58° to 302°F/-50° to 150°C	½ in NPT	±1%	2.5 in	No	**1UYL2**
	½ in NPT	±1%	4 in	No	**1UYL4**
	½ in NPT	±1%	6 in	No	**1UYL6**
	½ in NPT	±1%	9 in	No	**1UYL8**
	½ in NPT	±1%	12 in	No	**1UYN1**
	½ in NPT	±1%	15 in	No	**1UYN3**
	½ in NPT	±1%	18 in	No	**1UYN5**
	½ in NPT	±1%	24 in	No	**1UYN7**
-50° to 300°F/-45° to 150°C	½ in NPT	±1%	2.5 in	No	**56LM24**
	½ in NPT	±1%	4 in	No	**56LM25**
	½ in NPT	±1%	6 in	No	**56LM26**
	½ in NPT	±1%	9 in	No	**56LM27**
	½ in NPT	±1%	12 in	No	**56LM28**
	1 ¼"-18	±1%	3.5 in	No	**56LM29**
	1 ¼"-18	±1%	6 in	No	**56LM30**
	1 ¼"-18	±1%	9 in	No	**56LM31**
	1 ¼"-18	±1%	12 in	No	**56LM32**
	1 ¼"-18 UNEF	±1%	3.5 in	No	**6CMZ2**
	1 ¼"-18 UNEF	±1%	6 in	No	**6CMZ3**
-40° to 300°F/-40° to 150°C	1 ¼"-18	±1%/±1° (Whichever is Greater)	3.5 in	No	**2CYL7**
	1 ¼"-18	±1%/±1° (Whichever is Greater)	6 in	No	**2CYL8**
Back-Mount Fixed-Angle General Purpose Industrial					
-75° to 750°F	½ in NPT	±0.5°F/±0.3°C	9 in	Yes	**55CL62**
Side- & Bottom-Mount Fixed-Angle General Purpose Industrial					
-75° to 750°F	½ in NPT	±0.5°F/±0.3°C	2.5 in	Yes	**55CL61**
	½ in NPT	±0.5°F/±0.3°C	4 in	Yes	**55CL65**

Lead-Free Fixed-Angle Mount 20JN57

Thread-Mounted Glass Thermometers

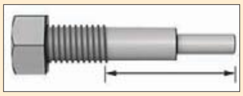
Liquid-in-glass scale features black markings on a clear, white background. Temperatures are easy to see and read. Threaded stem allows users to pivot and rotate the thermometer to view it from different angles. Lead-free units are suitable for drinking water applications.

Temp. Range (F)	Fluid	Graduations	Accuracy	Scale Length	Adjustable-Angle Mounting Item No.	Bottom Mounting Item No.	Back Mounting Item No.
HVAC Thermometers without Thermowell							
1 ¼"-18 Male UNEF Connection							
-40° to 110°F	Blue Spirit-Filled	2°F/1°C	±1%	9 in	**4LZN6**	—	—
0° to 120°F	Blue Spirit-Filled	1°F/0.5°C	±1%	9 in	**4LZN7**	—	—
0° to 160°F	Blue Spirit-Filled	2°F/1°C	±1%	9 in	**4LZN8**	—	—
30° to 180°F	Blue Spirit-Filled	2°F/1°C	±1%	9 in	**4LZN9**	—	—
30° to 240°F	Blue Spirit-Filled	2°F/1°C	±1%	9 in	**4LZP1**	—	—
30° to 300°F	Blue Spirit-Filled	5°F/2°C	±1%	9 in	**4LZP2**	—	—
50° to 400°F	Blue Spirit-Filled	5°F/2°C	±1%	9 in	**4LZP3**	—	—
50° to 550°F	Blue Spirit-Filled	5°F/5°C	±1%	9 in	**4LZP4**	—	—
Industrial Thermometer & Thermowell Assemblies							
½ in MNPT Thermometer x ½ in MNPT Thermowell Connection							
-40° to 110°F	Blue Spirit-Filled	2°F/1°C	±1%	6 in	—	**4PRT7**	—
20° to 120°F	Blue Spirit-Filled	2°F/1°C	±1%	6 in	—	**4PRT8**	**4PRU5**
20° to 180°F	Blue Spirit-Filled	2°F/1°C	±1%	6 in	—	**4PRT9**	**4PRU6**
30° to 240°F	Blue Spirit-Filled	2°F/2°C	±1%	6 in	—	**4PRU1**	**4PRU7**
50° to 400°F	Blue Spirit-Filled	5°F/5°C	±1%	6 in	—	—	**4PRU9**
Lead-Free Thermometer & Thermowell Assemblies							
¼ in UNEF Thermometer x ¾ in NPT Thermowell Connection							
-40° to 110°F	Green Kerosene	—	±1%	9 in	**20JN72**	—	—
0° to 120°F	Green Kerosene	—	±1%	9 in	**20JN76**	—	—
0° to 160°F	Green Kerosene	—	±1%	9 in	**20JN77**	—	—
30° to 180°F	Green Kerosene	—	±1%	9 in	**20JN79**	—	—
30° to 240°F	Green Kerosene	—	±1%	9 in	**20JN70**	—	—
30° to 300°F	Green Kerosene	—	±1%	9 in	**20JN83**	—	—
½ in NPT Thermometer x ½ in NPT Thermowell Connection							
-40° to 110°F	Red Kerosene	—	±2%	5.8 in	**20JN61**	**20JN57**	—
20° to 180°F	Red Kerosene	—	±2%	5.8 in	**20JN62**	**20JN58**	—
30° to 240°F	Red Kerosene	—	±2%	5.8 in	**20JN64**	**20JN59**	—
30° to 300°F	Red Kerosene	—	±2%	5.8 in	**20JN63**	**20JN60**	—
40° to 280°F	Green Kerosene	—	±1%	8 in	**20JN87**	**20JN86**	—

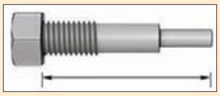
Straight Shank

Stepped Shank

Tapered Shank



Insertion Length



Stem Length

Choosing the Right Thermowell

SHANK TYPE

Straight

Consistent thickness throughout their length. Commonly used for general applications.

Stepped

Smallest diameter tip, and deliver fast response times.

Tapered

Diameter decreases gradually along their length. Durable and commonly used in high velocities.

MATERIAL

Stainless steel is the most widely used thermowell material. Stainless steel is heat- and corrosion-resistant. Low-lead compliant brass thermowells are used for contact with potable water.

Stepped Shank
20JN92

Straight Shank
61VD60

Temp. Regulators and Duct Sensors
6CUF3

Thermowells

Protective metal tubes shield thermometers from environments exposed to harsh conditions like pressure, velocity, corrosion, and vibration. Thermowells contact the media, liquid, or gas being tested, while the thermometer's sensor reads the temperature safely through the thermowell walls.

General Purpose Stepped-Shank Threaded Thermowells have a reduced diameter at the tip compared to the base of the shank, allowing for a faster response time than other styles. Appropriate for use in most light and medium-duty applications without very high temperatures or pressures.

Heavy-Duty Tapered-Shank Threaded Thermowells are made for high-velocity applications.

Light-Duty Straight-Shank Threaded Thermowells are the same size along the immersion length, which creates the most resistance to the flow. A good option for light-duty conditions with lower velocity and/or pressure.

Thermowells for Temperature Regulators & Duct Sensors protect measuring equipment and ensure accurate readings are performed for HVAC systems. Sometimes called immersion wells, they are commonly used with hot water immersion controls.

Process Connec.	For Thermometer Thread Connection	For Stem Length	For Stem Diameter	Insertion Length	Neck Extension	Item No.
General Purpose Stepped-Shank Threaded Thermowells						
304 Stainless Steel						
¾ in MNPT	½ in NPSM	2 ½ in	¼ in	2 ½ in	1 ¾ in	**24C512**
¾ in MNPT	½ in NPSM	4 in	¼ in	4 in	1 ¾ in	**24C513**
¾ in MNPT	½ in NPSM	6 in	¼ in	6 in	1 ¾ in	**24C514**
¾ in MNPT	½ in NPSM	9 in	¼ in	9 in	1 ¾ in	**24C515**
¾ in MNPT	½ in NPSM	12 in	¼ in	12 in	1 ¾ in	**24C516**
¾ in MNPT	½ in NPSM	15 in	¼ in	15 in	1 ¾ in	**24C517**
¾ in MNPT	½ in NPSM	18 in	¼ in	18 in	1 ¾ in	**24C518**
¾ in MNPT	1 ¼"-18 UNEF	3 ½ in	15/32 in	3 ½ in	1 ¾ in	**24C507**
¾ in MNPT	1 ¼"-18 UNEF	6 in	15/32 in	6 in	1 ¾ in	**24C508**
316 Stainless Steel						
½ in MNPT	⅝"-18 UNF	2 15/16 in	29/64 in	2 15/16 in	1 1/16 in	**24C479**
¾ in MNPT	½ in NPSM	2 ½ in	¼ in	2 ½ in	1 1/64 in	**24C461**
¾ in MNPT	½ in NPSM	4 in	¼ in	4 in	1 ¾ in	**24C462**
¾ in MNPT	½ in NPSM	6 ⅜ in	¼ in	4 ½ in	1 ¾ in	**24C463**
¾ in MNPT	½ in NPSM	9 in	¼ in	9 in	1 ¾ in	**24C464**
¾ in MNPT	½ in NPSM	12 in	¼ in	12 in	1 ¾ in	**24C465**
¾ in MNPT	½ in NPSM	18 in	¼ in	18 in	1 ¾ in	**24C467**
¾ in MNPT	1 ¼"-18 UNEF	3 ½ in	15/32 in	3 ½ in	1 ¾ in	**24C450**
¾ in MNPT	1 ¼"-18 UNEF	6 in	15/32 in	6 in	1 ¾ in	**24C451**
¾ in MNPT	1 ¼"-18 UNEF	6 in	15/32 in	6 in	4 ¼ in	**24C482**
¾ in MNPT	1 ¼"-18 UNEF	8 in	15/32 in	8 in	4 ¼ in	**24C483**
¾ in MNPT	1 ¼"-18 UNEF	12 in	15/32 in	12 in	4 ¾ in	**24C484**
¾ in MNPT	1 ¼"-18 UNEF	18 in	15/32 in	18 in	1 ¾ in	**24C454**
¾ in MNPT	1 ¼"-18 UNEF	18 in	15/32 in	18 in	4 ¾ in	**24C485**
Brass						
½ in MNPT	½ in NPT	33/64 in	33/64 in	2 in	2 17/32 in	**20JN91**
½ in MNPT	½ in NPT	9/32 in	9/32 in	1 21/32 in	1 61/64 in	**20JN92**
½ in MNPT	½ in NPT	9/32 in	9/32 in	1 39/64 in	1 61/64 in	**20JN93**
½ in MNPT	½ in NPT	9/32 in	9/32 in	51/64 in	1 61/64 in	**20JN94**
½ in MNPT	⅝"-18 UNF	7/16 in	½ in	1 29/32 in	2 ½ in	**56LM45**
½ in MNPT	¾"-16 UNF	1 ⅞ in	½ in	1 ¼ in	1 27/32 in	**20JN65**
¾ in MNPT	½ in NPSM	18 in	¼ in	18 in	4 ¾ in	**24C505**
¾ in MNPT	¾"-16 UNF	1 ⅞ in	½ in	1 ¼ in	1 27/32 in	**20JN66**
¾ in MNPT	1 ¼ in UNEF	3 ½ in	7/16 in	2 ½ in	4 13/32 in	**20JN84**
¾ in MNPT	1 ¼ in UNEF	3 ½ in	7/16 in	1 ¾ in	4 ¼ in	**38VL16**
¾ in MNPT	1 ¼"-18 UNEF	6 in	15/32 in	6 in	4 ¼ in	**24C487**
¾ in MNPT	1 ¼"-18 UNEF	6 in	15/32 in	6 in	1 ¾ in	**24C456**
¾ in MNPT	1 ¼ in UNEF	6 in	7/16 in	5 in	6 ¾ in	**20JN85**
¾ in MNPT	1 ¼ in UNEF	6 in	7/16 in	2 ½ in	6 ¾ in	**38VL17**
Stainless Steel						
¾ in MNPT	1 ¼"-18 NEF	3 ½ in	½ in	2 ½ in	13/16 in	**6PEZ0**
¾ in MNPT	1 ¼"-18 NEF	6 in	½ in	5 in	13/16 in	**6PEZ1**
Heavy-Duty Tapered-Shank Threaded Thermowells						
304 Stainless Steel						
½ in MNPT	½ in NPSM	12 in	¼ in	10 ½ in	1 ¾ in	**61VE27**
½ in MNPT	½ in NPSM	15 in	¼ in	13 ½ in	1 ¾ in	**61VE30**
½ in MNPT	½ in NPSM	18 in	¼ in	16 ½ in	1 ¾ in	**61VE33**
½ in MNPT	½ in NPSM	24 in	¼ in	22 ½ in	1 ¾ in	**61VE36**
¾ in MNPT	½ in NPSM	12 in	¼ in	10 ½ in	1 ¾ in	**61VE28**
¾ in MNPT	½ in NPSM	15 in	¼ in	13 ½ in	1 ¾ in	**61VE31**
¾ in MNPT	½ in NPSM	18 in	¼ in	16 ½ in	1 ¾ in	**61VE34**
¾ in MNPT	½ in NPSM	24 in	¼ in	22 ½ in	1 ¾ in	**61VE37**
1 in MNPT	½ in NPSM	4 in	¼ in	2 ½ in	1 ¾ in	**61VE38**
1 in MNPT	½ in NPSM	9 in	¼ in	7 ½ in	1 ¾ in	**61VE39**
1 in MNPT	½ in NPSM	15 in	¼ in	13 ½ in	1 ¾ in	**61VE29**
1 in MNPT	½ in NPSM	18 in	¼ in	16 ½ in	1 ¾ in	**61VE32**
1 in MNPT	½ in NPSM	24 in	¼ in	22 ½ in	1 ¾ in	**61VE35**
Light-Duty Straight-Shank Threaded Thermowells						
Brass						
¾ in MNPT	½ in NPSM	¼ in	½ in	1 ⅝ in	⅜ in	**61VD60**
¾ in MNPT	½ in NPSM	¼ in	½ in	2 ½ in	¾ in	**61VD61**
¾ in MNPT	1 ¼"-18 UNF	⅝ in	⅝ in	3 ½ in	¾ in	**61VD62**
¾ in MNPT	1 ¼"-18 UNF	⅝ in	⅝ in	1 ¾ in	¾ in, 1 in	**61VD63**
¾ in MNPT	1 ¼"-18 UNF	⅝ in	⅝ in	2 ½ in	¾ in	**61VD64**
¾ in MNPT	1 ¼"-18 UNF	⅝ in	⅝ in	2 ½ in	¾ in, 2 ½ in	**61VD65**
Thermowells for Temperature Regulators & Duct Sensors						
Stainless Steel						
¼ in MNPT	¼ in NPT	9 in	½ in	9 in	—	**6CUF3**
¼ in MNPT	¼ in NPT	12 in	½ in	12 in	—	**6CUF4**
1 in MNPT	1 in MNPT	13 ⅜ in	⅝ in	10 ½ in	2 ⅞ in	**3EJJ7**
1 in MNPT	1 in MNPT	15 ⅝ in	1 in	12 ½ in	3 ⅛ in	**3EJJ9**

Liquid-in-Glass Laboratory Thermometers

- Filled with environmentally safe fluids

Thermometers are available with plain glass, coated glass, or armored glass stem. Commonly used in laboratories to record temperatures in water or oil baths, refrigerators, freezers, incubators, and ovens.

Full-immersion thermometers must be fully submerged in an environment or sample for accurate temperature readings. Typically placed inside a water bath or incubator and removed only when verification of temperature is required.

Partial-immersion thermometers must be submerged to a known depth to accurately register temperature readings. A marked line indicates the level they need to be submerged in order to provide an accurate reading. Commonly used to measure temperature in vessels and beakers when the sample to be measured is shallow.

Armored thermometers have an armored metal sheath that protects the glass housing from accidental breakage.

5ZPG1

53UK93

Temperature Range	Overall Length	Fluid	Graduations	Accuracy	Includes NIST-Traceable Certificate	Full Immersion Immersion Depth	Full Immersion Item No.	Partial Immersion Immersion Depth	Partial Immersion Item No.
Celsius									
Glass									
-100° to 50°C	305 mm	Red	1°C	±2.0°C	Yes	305 mm	**9NKX0**	76 mm	**9F105**
-20° to 110°C	300 mm	Black Enviro-Safe® Liquid	2°C	±2%°F	Yes	—	—	76 mm	**735W17**
	305 mm	Red	0.5°C	±1.0°C	Yes	—	—	76 mm	**8DGZ3**
-20° to 150°C	305 mm	Black Enviro-Safe® Liquid	2°C	±2%°F	Yes	305 mm	**735W20**	—	—
-10° to 110°C	200 mm	Black Enviro-Safe® Liquid	2°C	±2%°F	Yes	305 mm	**735W11**	—	—
-1° to 201°C	430 mm	Red	0.5°C	±0.8°C (to 110°C), ±1.2°C (Above 110°C)	Yes	—	—	76 mm	**9LAG0**
0° to 80°C	250 mm	Red	1°C	±1.0°C	Yes	—	—	100 mm	**5ZPG1**
0° to 110°C	225 mm	Red	0.5°C	±1.0°C	Yes	—	—	35 mm	**5ZPF7**
	225 mm	Red	0.5°C	±1.5°C	Yes	—	—	35 mm	**5ZPF8**
0° to 200°C	280 mm	Red	1°C	±2.0°C (to 100°C), ±3.0°C (Above 100°C)	Yes	—	—	76 mm	**5ZPG7**
24° to 130°C	135 mm	Red	1°C	—	Yes	135 mm	**5ZPH1**	—	—
35° to 180°C	180 mm	Red	1°C	±2.0°C (to 100°C), ±3.0°C (Above 100°C)	Yes	180 mm	**5ZPH3**	—	—
FEP-Coated Glass									
-20° to 110°C	305 mm	Blue	1°C	±2.0°C	Yes	305 mm	**3LRK1**	76 mm	**3LRH7**
-20° to 150°C	305 mm	Blue	1°C	±2.0°C	Yes	—	—	76 mm	**3LRH9**
Armored Glass									
-35° to 50°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**36TY26**	3 in	**36TY31**
-20° to 110°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**36TY27**	3 in	**36TY32**
-20° to 150°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**36TY28**	3 in	**36TY33**
Armored FEP-Coated Glass									
-35° to 50°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**53UK98**	3 in	**53UL02**
-20° to 110°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**36TY36**	3 in	**36TY40**
-20° to 150°C	12 in	Blue Isoamyl Benzoate	1°C	±1°C	No	12 in	**36TY37**	3 in	**53UL03**
Fahrenheit									
Glass									
0° to 180°F	305 mm	Blue	1°F	±0.5°F	Yes	305 mm	**34CT67**	—	—
0° to 230°F	305 mm	Black Enviro-Safe® Liquid	2°F	±2%°F	Yes	—	—	76 mm	**735W03**
0° to 300°F	200 mm	Black Enviro-Safe® Liquid	2°F	±2%°F	Yes	—	—	50 mm	**735W06**
	305 mm	Black Enviro-Safe® Liquid	2°F	±2%°F	Yes	305 mm	**735W09**	76 mm	**735W07**
	305 mm	Red	2°F	±4.0°F	Yes	—	—	76 mm	**9U704**
20° to 220°F	305 mm	Blue	1°F	±0.5°F	Yes	305 mm	**34CT68**	—	—
20° to 500°F	405 mm	Blue	—	—	Yes	—	—	76 mm	**3LRJ8**
FEP-Coated Glass									
0° to 230°F	305 mm	Blue	2°F	—	Yes	305 mm	**3LRK5**	76 mm	**3LRJ4**
0° to 300°F	305 mm	Blue	2°F	—	Yes	—	—	76 mm	**3LRJ6**
Armored Glass									
-30° to 120°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**53UK93**	—	—
-10° to 250°F	15.375 in	Blue Isoamyl Benzoate	2°F	±2°F	No	—	—	3 in	**53UK95**
-4° to 230°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**36TY24**	3 in	**36TY29**
0° to 300°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**36TY25**	3 in	**36TY30**
20° to 500°F	15.375 in	Blue Isoamyl Benzoate	2°F	±2°F	No	—	—	3 in	**53UK94**
Armored FEP-Coated Glass									
-30° to 120°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**53UK96**	3 in	**53UK99**
-4° to 230°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**36TY34**	3 in	**36TY38**
0° to 300°F	12 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**36TY35**	3 in	**36TY39**
30° to 220°F	15.375 in	Blue Isoamyl Benzoate	2°F	±2°F	No	12 in	**53UK97**	3 in	**53UL01**

Compact Liquid-in-Glass Pocket Thermometers

- Include NIST traceable calibration certificate, except 6DKC9 and 6DKD0

Thermometers are filled with nontoxic liquid and provide quick, on-the-spot temperature measurements. Compact units are commonly used for field studies, waste-water treatment measurement, and for general temperature readings.

6DKC9

3LPY9

Temperature Range	Overall Length	Immersion Depth	Fluid	Graduations	Accuracy	Construc.	Includes NIST-Traceable Certificate	Item No.
Celsius								
-15° to 150°C	152 mm	150 mm	Blue Biodegradable Organic Liquid	1°C	—	FEP-Coated Glass	Yes	**3LRL6**
-10° to 110°C	6.3 in	160 mm	Green Enviro-Safe® Liquid	1°C	±1°F	Glass	Yes	**3LPZ2**
Fahrenheit								
-30° to 120°F	152 mm	150 mm	Blue Biodegradable Organic Liquid	2°F	—	FEP-Coated Glass	Yes	**3LRK9**
-30° to 120°F	6.25 in	13 mm	Red Kerosene	2°F	±2%	Glass	No	**6DKC9**
0° to 220°F	152 mm	150 mm	Blue Biodegradable Organic Liquid	2°F	—	FEP-Coated Glass	Yes	**3LRL2**
0° to 220°F	6.3 in	160 mm	Green Enviro-Safe® Liquid	2°F	±2°F	Glass	Yes	**3LPY9**
0° to 220°F	6.25 in	13 mm	Red Kerosene	2°F	±2%	Glass	No	**6DKD0**
0° to 220°F	152 mm	150 mm	Blue Biodegradable Organic Liquid	2°F	—	FEP-Coated Glass	Yes	**3LRN1**

K3151

Dial Pocket Thermometers

- 1"-dia. dials
- 5"L stems

Clear, plastic lens displays temperature on an easy-to-read black scale with a white background. Stainless steel case, stem, and bezel that provides shock protection in extreme environments. Thermometers can be quickly calibrated with an external adjustment screw. Often used in food processing, testing, and HVAC applications.

NSF-rated thermometers are used in food processing and production, and the food service and hospitality industries where thermometers come in contact with food.

▶CHOOSE: Temperature Range	Accuracy	Stem Diameter	Glow-in-the-Dark	Item No.
General Purpose Dial Pocket Thermometers				
Fahrenheit				
-40° to 70°F, -40° to 160°F, 0° to 50°F, 25° to 125°F	±1%	0.15 in	No	**K3149**
-40° to 120°F	±1%	0.142 in	No	**423M60**
0° to 220°F	±2°F	0.15 in	No	**23NU28**
50° to 500°F	±1%	0.15 in	No	**3JPE7**
Celsius				
-10° to 110°C, 0° to 250°C	±1%	0.15 in	No	**K3150**
NSF-Rated Dial Pocket Thermometers				
Fahrenheit				
-40° to 160°F, 0° to 220°F	±2%	0.142 in	Yes	**K3151**
-40° to 160°F, 0° to 220°F, 25° to 125°F	±2°F	0.15 in	No	**K3152**
0° to 220°F	±1%	—	No	**6HXE8**
0° to 220°F	±2°F	0.142 in	No	**K3151**
0° to 220°F, 25° to 125°F	±1%	4 mm	No	**K3153**

20KL36

3LPU7

Dial Thermometers for Compost & Soil

Compost thermometers have threads used for mounting to permanent or semipermanent locations like compost bins. Soil thermometers have a plain bushing and are intended for both long- and short-term immersion in soil. Shaded and labeled zone on the dial highlights if the soil or compost bin is hot, cold, or an ideal temperature.

Temperature Range	Stem Length	Dial Diameter	Accuracy	Stem Diameter	Item No.
Dial Thermometers for Compost					
Celsius, Fahrenheit					
0° to 220°F/-18° to 104°C	36 in	3 in	±1.5%	¼ in	**3JPG1**
Fahrenheit					
-40° to 160°F	6 in	3 in	±2°F	¼ in	**20KL36**
	12 in	3 in	±2°F	¼ in	**55EZ26**
0° to 200°F	36 in	3 in	±2°F	5⁄16 in	**20KL37**
	36 in	3 in	1%	5⁄16 in	**3LPV4**
	48 in	3 in	1%	5⁄16 in	**3LPV2**
	48 in	3 in	±2°F	5⁄16 in	**55EZ27**
	60 in	3 in	1%	5⁄16 in	**3LPV6**
	72 in	3 in	1%	5⁄16 in	**3LPV8**
Dial Thermometers for Soil					
Celsius					
-10° to 110°C	12 in	2 ⅜ in	±1%	¼ in	**3JPH8**
	36 in	2 ⅜ in	±1%	¼ in	**3JPJ1**
Celsius, Fahrenheit					
20° to 180°F/0° to 80°C	4 in	2 in	±2%	⅛ in	**3LPU7**
Fahrenheit					
-40° to 160°F	6 in	2 ⅜ in	±1%	¼ in	**3JPH2**
	12 in	2 ⅜ in	±1%	¼ in	**3JPG9**
	18 in	2 ⅜ in	±1%	¼ in	**3JPH6**
0° to 200°F	20 in	1 13⁄16 in	1%	¼ in	**3JPN4**

Digital Pocket Thermometers

- 0.1°F/0.1°C resolution
- 4-digit displays, except 3KGL8 which has a 6-digit backlit display

Digital LCD display reduces reading errors and allows for quick at-a-glance checks. Small, portable units provide faster response times than standard thermometers. Commonly used to record temperatures in food processing, testing, and HVAC applications.

NSF-rated thermometers are used in food processing and production, and the food service and hospitality industries where thermometers come in contact with food.

21EP01

4LY14

Temperature Range	Stem Length	Display size	Digit Height	Accuracy	STANDARD Item No.	NIST Item No.
Industrial & Laboratory Digital Pocket Thermometers						
Side Reading Pen Style						
-58° to 302°F/-50° to 150°C	8.38 in	⅜ in H x ¾ in W	0.375 in	±1.8°F/±1°C (-4° to 248°F/-20° to 120°C), ±3.6°F/±2°C (Otherwise)	**3KTW1**	—
-58° to 392°F/-50° to 200°C	5 in *	5⁄16 in H x 11⁄16 in W	0.25 in	±0.9°F/±0.5°C (14° to 212°F/-10° to 100°C), ±2.7°F/±1.5°C (Otherwise)	**462D58**	—
-58° to 572°F/-50° to 300°C	3.25 in *	½ in H x 1 ⅝ in W	0.375 in	±1.8°F/±1°C (-22° to 302°F/-30° to 150°C), ±4°F/±2°C (Otherwise)	**21CH60**	**49EL80**
	4.5 in *	¾ in H x ⅝ in W	0.75 in	±1°C Between –20° and 100°C	—	**3KGL8**
	8 in	0.3 in H x 0.75 in W	0.25 in	±1°C (-20° to 120°C), ±2°C (-50° to -20°C/120° to 200°C), ±3°C (Otherwise)	**23NU22**	—
-40° to 390°F/-40° to 200°C	4 in	—		±2°F	**52VN92**	—
-40° to 392°F/-40° to 200°C	2.75 in	5.9 in H x 0.7 in W	0.25 in	±2°F/±1°C	**21EP01** †	—
Top Reading Non-Rolling Style						
-40° to 302°F/-40° to 150°C	4.5 in	5⁄16 in H x ¾ in W	0.3125 in	±1.8°F/±1°C	**3KTP8**	—
Top Reading T-Handle Style						
-58° to 572°F/-50° to 300°C	4.75 in	0.3 in H x 0.75 in W	0.25 in	±1°C (-20° to 120°C), ±2°C (-50° to -20°C/120° to 200°C), ±3°C (Otherwise)	**23NU20**	—
14° to 212°F/-10° to 100°C	5 in	⅜ in H x ¾ in W	0.25 in	±1.0°F/±0.5°C	**49WX89**	—
NSF-Rated Digital Pocket Thermometers						
Side Reading Pen Style						
-58° to 572°F/-50° to 300°C	3.25 in	½ in H x 1 ¾ in W	0.5 in	±1.8°F/±1°C (-22° to 302°F/-30° to 150°C), ±4°F/±2°C (Otherwise)	—	**49EL79** †
	8.69 in *	⅞ in H x 2 in W	0.75 in	±1.8°F/±1°C (-22° to 302°F/-30° to 150°C), ±4°F/±2°C (Otherwise)	**55UX44**	—
Top Reading Non-Rolling Style						
-40° to 302°F/-40° to 150°C	5 in	0.4 in H x 0.8 in W	0.4 in	±2°F	**6DKD3**	—
-40° to 450°F/-40° to 230°C	5 in	0.4 in H x 0.8 in W	0.4 in	±1°F (0° to 230°F), ±3.6°F (Otherwise)	**4LY14** †	—
Top Reading T-Handle Style						
-58° to 572°F/-50° to 300°C	5 in	½ in H x 1 in W	0.25 in	±1.8°F (-22°F to 302°F), ±4°F (Otherwise)	**9UGY9** †	**49EL81** †

** Folding stem. † Waterproof.*

Vat & Pan Clip-On Dial Thermometers

- NSF Rated

Thermometers with metal stem are used to monitor temperature in open tanks, pans, or vats. Feature a clip to temporarily mount to the side wall of a pot, kettle, tank, or other open vessel for ongoing monitoring. Approved for use in food manufacturing and processing, food service, hospitality, and other applications where the thermometer comes in contact with food. 304 stainless steel housing. For 0.75" wall thickness.

9RTU5

Temperature Range	Stem Length	Temperature Graduations	Accuracy	Dial Diameter	Lens Material	Item No.
Celsius						
-40° to 70°C	8 in	1°C	±1%	2 in	Glass	**8TNY2**
-10° to 110°C	8 in	1°C	±1%	2 in	Glass	**8ACU1**
	12 in	1°C	±1%	1 ¾ in	Plastic	**8XXY0**
0° to 50°C	8 in	0.5°C	±1%	2 in	Glass	**8ACU2**
0° to 250°C	12 in	2°C	±1%	1 ¾ in	Plastic	**8A272**
Fahrenheit						
-40° to 70°F	12 in	0.5°F	±1%	1 ¾ in	Plastic	**9GCV7**
-40° to 160°F	8 in	0.5°F	±1%	2 in	Glass	**8AFZ6**
	12 in	0.5°F	±1%	1 ¾ in	Plastic	**8A268**
0° to 50°F	12 in	0.5°F	±1%	1 ¾ in	Plastic	**8A273**
0° to 220°F	8 in	0.5°F	±1%	2 in	Glass	**8AFZ7**
	12 in	0.5°F	±1%	1 ¾ in	Plastic	**8A270**
25° to 125°F	12 in	0.5°F	±1%	1 ¾ in	Plastic	**9PWD3**
50° to 500°F	8 in	0.5°F	±1%	2 in	Glass	**9RTU5**
	12 in	0.5°F	±1%	1 ¾ in	Plastic	**8XXW9**

Bath for Process Manufacturing 54DD52

Portable Calibration Baths

Compatible liquid is heated to exact temperatures and various instruments can be submerged in the liquid and calibrated to precise temperatures. Panel control display allows users to set various temperature points. Calibration baths are portable for calibrating instruments in the field.

General purpose baths calibrate short-, square-, and odd-shaped temperature sensors.

Baths for process manufacturing are used in manufacturing plants for pharmaceuticals, biotechnology, and food production.

Temperature Range	Stability	Accuracy	Tank Size	Fluid Volume	Common Fluid Compatibility	Calibration Details	Item No.
General Purpose Portable Calibration Baths							
-30° to 125°C	±0.03°C at -25°C (Oil 5010), ±0.05°C at 125°C (Oil 5010)	±0.25°C	2 ½ in Dia x 5 ½ in D Tank, 1 29/32 in Working Diameter	1 L	Mineral Oil, Silicone Oil, Water (Distilled)	Data at -25°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 125°C	**33W926**
-5° to 125°C	±0.015°C at -5°C (Oil 5010), ±0.03°C at 121°C (Oil 5010)	±0.25°C	2 ½ in Dia x 5 ½ in D Tank, 1 29/32 in Working Diameter	750 mL	Mineral Oil, Silicone Oil	Data at -5°C, 25°C, 55°C, 90°C, and 121°C	**33W925**
35° to 200°C	±0.02°C at 100°C (Oil 5013), ±0.03°C at 200°C (Oil 5013)	±0.25°C	2 ½ in Dia x 5 ½ in D Tank, 1 29/32 in Working Diameter	750 mL	Mineral Oil, Silicone Oil, Water (Distilled)	Data at 50°C, 100°C, 150°C, and 200°C	**33W924**
Portable Calibration Baths for Process Manufacturing							
-25° to 250°C	0.015°C	±0.1°C	4 13/32 in Dia x 6 7/64 in D, 3 in Working Dia	2.5 L	Silicone Oil Type 200.50	Traceable NVLAP-Accredited Calibration	**54DD52**
-25° to 250°C	0.01°C	±0.1°C	4 13/32 in Dia x 6 7/64 in D, 3 in Working Dia	2.5 L	Silicone Oil type 200.10	Traceable NVLAP-Accredited Calibration	**54DD54**
Portable Calibration Baths with Process Connections for Process Manufacturing							
-25° to 250°C	0.015°C	±0.1°C	4 13/32 in Dia x 6 7/64 in D, 3 in Working Dia	2.5 L	Silicone Oil Type 200.50	Traceable NVLAP-Accredited Calibration	**54DD53**
-25° to 250°C	0.01°C	±0.1°C	4 13/32 in Dia x 6 7/64 in D, 3 in Working Dia	2.5 L	Silicone Oil type 200.10	Traceable NVLAP-Accredited Calibration	**54DD55**

Portable Field Metrology Drywell Calibrators

Quickly and accurately calibrate bimetal thermometers, temperature sensors including RTDs and thermocouples, and temperature switches in the field. Drywell technology creates specific heat zones that provide even and stable temperature distribution. Features like the large LCD display, function keys, and menu options allow easy operation and programming. The front panel has outlets for plugging in other instruments, and with built-in process electronics, users do not have to bring multiple tools to the field. Commonly used for transmitter loop calibrations, comparison calibrations, or for checking and calibrating thermocouple sensors. Choose from the available stem diameter groupings.

General Purpose Industrial Field Metrology Wells—Calibrate temperature sensors like RTDs, thermocouples, thermometers, and temperature switches.

Ultra-High & Low Temperature Field Metrology Wells—General purpose units calibrate temperature sensors like RTDs, thermocouples, thermometers, and temperature switches at extreme high and low temperatures.

*Key	For Stem Diameter
A	(4) ¼ in
B	(6) ¼ in
C	(3) ¼ in, (1) 3/16 in, (1) ⅛ in, (1) ⅜ in
D	(1) ⅜ in, (2) ¼ in, (1) 3/16 in, (1) ⅛ in
E	(1) ⅜ in, (2) ¼ in, (2) 3/16 in, (1) ⅛ in
F	(2) ⅜ in, (2) ¼ in, (2) 3/16 in
G	(2) 3 mm, (2) 4 mm, (2) 6 mm
H	(3) 3 mm, (2) 4 mm, (2) 6 mm
I	(2) 3 mm, (2) 4 mm, (1) 6 mm, ¼ in
J	(2) 3 mm, (2) 4 mm, (2) 6 mm, ¼ in
K	4 mm, 6, mm 8 mm, 10 mm, ¼ in
L	3 mm, 4 mm, 6 mm, 8 mm, 10, mm, ¼ in

K3069

Brand and Series	▶CHOOSE: For Stem Diameter*	Temperature Range	Stability	Calibrator Accuracy	Std.	Item No.	With Process Connections Item No.
General Purpose Industrial Field Metrology Wells							
Fluke 9142	B, C, F, H, J, K	-196° to 660°C, 0° to 1,480°C	±0.01°C	±0.2°C (Display - Full Range)	NVLAP Accredited	**K3068**	**K3071**
Fluke 9143	A, D, E, G, I	-196° to 660°C, 0° to 1,480°C	±0.02°C at 200°C, ±0.02°C at 33°C, ±0.03°C at 350°C	±0.2°C (Display - Full Range)	NVLAP Accredited	**K3069**	**K3072**
Fluke 9144	A, D, E, G, I, K	-196° to 660°C, 0° to 1,480°C	±0.03°C at 50°C, ±0.04°C at 420°C, ±0.05°C at 660°C	±0.35°C at 420°C, ±0.35°C at 50°C, ±0.5°C at 660°C	NVLAP Accredited	**K3070**	**K3073**
Ultra-High & Low Temperature Field Metrology Wells							
Fluke 9190A	B, F, G, I, L	-139° to 284°F/-95° to 140°C	±0.015°C	±0.2°C	IEC 61010-1, Installation Category II, Pollution degree 2, IEC 61326-1: Basic	**K3074**	**K3075**

High-Temperature Thermocouple Calibrator Furnaces

Horizontal, open-ended tube furnaces are used for comparison calibration of noble- and base-metal thermocouples. Feature automated setpoint control for a wide temperature range. With nonmetallic blocks, these units will not contaminate thermocouples. Built with a deep immersion depth, so users can calibrate their thermocouples at the depth of use.

33W936

Brand and Series	Temperature Range	Stability	Well Size	Display Resolution	Temperature Accuracy	Calibration Details	Probe Connection Types	Item No.
Fluke 9150	302° to 2192°F/150° to 1200°C	±0.5°C	1 ¼ in Dia x 5 ½ in D Well	0.1° to 999.9°, 1° above 1000°	±5°C	Data at 150°C, 300°C, 450°C, 600°C, 800°C, 1000°C, and 1200°C	1/16 in, ⅛ in, 3/16 in, ¼ in, ⅜ in, ½ in	**33W936**
							(2) 3/16 in, (2), ¼ in, (2) ⅜ in	**33W937**
							(6) ¼ in	**33W938**
							(2) 3 mm, (2) 4 mm, (2) 6 mm	**33W942**
								33W953

Compact Field Drywell Calibrators

Industrial Dual-Block 4LHA6

Single-Block with Adjustable Set Points 33W927

Small and lightweight calibrators are used to test and ensure that RTDs, thermocouples, and bimetal thermometers are accurately calibrated in the field. Can be used for adjustable or fixed setpoints.

INDUSTRIAL DUAL-BLOCK DRYWELL CALIBRATORS WITH ADJUSTABLE SETPOINTS

Calibrators have adjustable setpoints and an LED front panel for easy programming. The dual-block features two blocks for a range of temperatures. They have four removable inserts that interface with an external documenting process calibrator. Include a protective case for storage.

SINGLE-BLOCK DRYWELL CALIBRATORS WITH ADJUSTABLE SETPOINTS

Adjustable setpoints allow users to program multiple setpoints. Select models may be compatible with optional interchangeable inserts for different numbers and diameters of probes.

SINGLE-BLOCK DRYWELL CALIBRATORS WITH FIXED SETPOINTS

Calibrators with fixed setpoints are accurate and easy to operate. Can be paired with external dial and digital thermometers. Commonly used to calibrate temperature-sensing instruments used in food processing and preparation applications.

Single-Block with Fixed Set Points 3MNG6

Brand and Series	Hot Block Temp. Range	Cold Block Temp. Range	Stability	For Stem Diameter	Stabilization Time	Well Depth	BLACK CASE Item No.	YELLOW CASE Item No.
Industrial Dual-Block Drywell Calibrators with Adjustable Setpoints								
Calibration Details: Data at -8°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 110°C, Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C								
Fluke 9009	122° to 662°F (50° to 350°C)	5° to 230°F (-15° to 115°C)	±0.05°C	0.0625 in, 0.125 in, 0.15625 in, 0.1875 in, 0.25 in, 0.3125 in, 0.375 in, 0.4375 in	8 min	4 in	**4LHA6**	**4LHA5**

Brand and Series	Temperature Range	Stabilization Time	For Stem Diameter	Item No.
Single-Block Drywell Calibrators with Adjustable Setpoints				
Calibration Details: Data at -25°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 140°C				
Fluke 9103	-13° to 284°F/-25° to 140°C	7 min	(6) ¼ in	**33W929**
			(2) ¼ in, (2) ⅜ in, (2) 3⁄16 in	**33W928**
			1⁄16 in, ⅛ in, 3⁄16 in, ¼ in, ⅜ in, ½ in	**33W927**
			(2) 3 mm, (2) 4 mm, (2) 6 mm	**33W939**
Calibration Details: Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C				
Fluke 9140	95° to 662°F/35° to 350°C	7 min	(6) ¼ in	**33W932**
			(2) ¼ in, (2) ⅜ in, (2) 3⁄16 in	**33W931**
			1⁄16 in, ⅛ in, 3⁄16 in, ¼ in, ⅜ in, ½ in	**33W930**
			(2) 3 mm, (2) 4 mm, (2) 6 mm	**33W940**

Brand and Series	Temperature Set Points	Calibrator Application	For Stem Diameter	Item No.
Single-Block Drywell Calibrators with Fixed Setpoints				
Tel-Tru Check-Set	40 °F	Cold Food Holding Temperature (for 40°F)	0.125 in, 0.150 in, 0.187 in	**52RW36**
			0.187 in, 0.250 in, 0.375 in	**52RW37**
	40 °F, 160 °F	E.Coli Safety Temperature (for 160°F), Cold Food Holding Temperature (for 40°F)	0.125 in, 0.150 in, 0.187 in	**52RW34**
			0.187 in, 0.250 in, 0.375 in	**52RW35**
	40 °F, 150 °F, 161 °F, 175 °F	Clean-in-Place Return Lines (for 150°F), HTST Flash Pasteurization - Ice Cream, Eggnog, Frozen Desserts (for 175°F), HTST Flash Pasteurization - Milk (for 161°F), Cold Food Holding Temperature (for 40°F)	0.187 in, 0.250 in, 0.375 in	**52RW38**
			0.125 in, 0.150 in, 0.187 in	**52RW39**
	160 °F	E.Coli Safety Temperature (for 160°F)	0.15 in	**3MNG6**

Handheld Temperature Probe Calibrators

6KD41

39M989

Battery-operated instruments measure and source 17 thermocouple types and millivolts. When used to source temperature signals, these calibrators also measure 4 to 20 mA signals. They are highly accurate and feature configurable source settings for prompt linearity checks.

Temperature Range	For Thermocouple Type	For RTD Type	Millivolt Range	Resistance Range	Temperature Accuracy	STANDARD Item No.	NIST Item No.
Handheld RTD & Thermocouple Probe Source/Measure Calibrators							
-328° to 3182°F/-200° to 1800°C (Thermocouple), 14° to 1,166°F/-10° to 630°C (RTD)	B, E, J, K, N, R, S, T	Cu10, Cu50, Pt10 (385), Pt100 (385), Pt1000 (385), Pt200 (385), Pt500 (385)	-10 to 1100mV DC	0 to 4,000 ohm	0.05%	**161D35**	—
-328° to 1,472°F/-200° to 800°C (RTD), -328° to 2,498°F/-200° to 1,370°C (Thermocouple)	B, BP, E, J, K, L, N, R, S, T, U, XK	Ni 120, Pt 100 (385), Pt 100 (393), Pt 100 (JIS), Pt 1000 (385), Pt 200 (385), Pt 500 (385)	0 to 100mV DC	0 to 3,200 ohm	— #	—	**6KD41**
Handheld RTD Probe Source/Measure Calibrators							
-200° to 800°C	—	Cu 10 (427), Cu 100 (427), Cu 50 (427), Ni 120 (672), Pt 10 (385), Pt 100 (385), Pt 100 (3916), Pt 100 (3926), Pt 1000 (385), Pt 200 (385), Pt 50 (385), YSI400	—	1 to 4,000 ohm	—	—	**30PJ28**
Handheld Thermocouple Probe Source/Measure Calibrators							
-328° to 1,472°F/-200° to 800°C	B, E, J, K: T, L, R, S, U	Ni 120, Pt 100 (385), Pt 100 (392) (3926), Pt 100 JIS (3916), Pt 1000 (385), Pt 200 (385), Pt 500 (385)	-10 to 75mV	0 to 3,200 ohm	—	—	**30PJ29**
-58° to 2498°F/-50° to 1,750°C	C, E, J, K, N, R, S, T	—	-10 to 60mV DC	—	±0.05% +2°F/1°C	**39M988**	**39M989**
		—	-5 to 55mV	—	±0.05% +2°F/1°C	**39M990**	**39M991**
-328° to 2,498°F/-200° to 1,370°C	B, E, J, K, N, R, S, T	—	-10 to 110mV DC	—	0.05%	**52ZK70**	—

Intrinsically Safe Compact Reference Temperature Calibrators

5NLL3

- 3-point NIST-traceable, 3-point NVLAP-accredited
- Minimum immersion of 70mm for wet media or 120mm for dry media
- Resolution: 0.1°/0.01°/0.001° (Variable)
- Sampling rate: 0.5 sec/1 sec/2 sec (Variable)

Calibrators are compact, lightweight, and portable and operate at a wide range of temperatures. Large color display for easy programming. The preset temperature points and icons allow users to monitor the calibrator and calibration process. Units have a carrying handle and are commonly used on-site in maintenance shops and in laboratories.

Temperature Range	Response Time	Sensor Type	Item No.
-58° to 320°F/-50° to 160°C	14 sec	RTD	**5NLL3**
	21 sec	RTD	**5NLL4**
-112° to 572°F/-80° to 300°C	20 sec	PRT	**5NLL5**

Internal Pressure Measurement Range	Measure Functions	Loop Supply Voltage	Pressure Modules	Mfr. Model	Item No.	
Pressure Calibrators						
-15 to 10,000 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717 10000G	**16L007**	
-12 to 15 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717 15G	**16L006**	
-12 to 30 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717 30	**6KD37**	*
	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-718 30	**6KD39**	
	Pressure, mA DC	—	700P Ex Series (8 Ranges)	Fluke-718Ex-30	**4FA90**	
-12 to 36 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-719 30G	**3DXK7**	
-12 to 100 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717 100G	**1ND75**	*
	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke 718 100G	**6KD38**	
	Pressure, mA DC	—	700P Ex Series (8 Ranges)	Fluke-718Ex-100	**4FA91**	
-12 to 120 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-719 100G	**3DXK8**	
-12 to 300 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-300G	**1GAN1**	*
	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-718-300G	**1GAK6**	
	Pressure, mA DC	—	700P Ex Series (8 Ranges)	Fluke-718Ex-300	**3DXK6**	
	Pressure, mA DC, V DC, Temp.	24V DC	700P Series (29 Ranges)	Fluke-719PRO 300G	**19YM04**	
-12 to 500 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-500G	**1GAN3**	*
-12 to 1000 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-1000G	**1GAN5**	*
-12 to 1500 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-1500G	**1GAN7**	*
-12 to 3000 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-3000G	**1GAN9**	*
-12 to 5000 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-5000G	**1GAP2**	*
-1 to 1 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-717-1G	**1GAK8**	*
	Pressure, mA DC	24V DC	750P Series (50 Ranges)	Fluke-718-1G	**1GAK4**	
0 to 300 psi	Pressure, mA DC	24V DC	750P Series (50 Ranges)	FLK-729 300GFC/WWG	**53KH65**	

High Side Media	Range	Reference Uncertainty	Total Uncertainty	Fitting Material	Mfr. Model	Item No.	
Pressure Modules							
Absolute							
316 SS	0 to 5 psi (0 to 35 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA3	**30PJ46**	
	0 to 15 psi (0 to 100 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA4	**30PJ47**	
	0 to 30 psi (0 to 200 KPa)	0.03 %%	0.06 %	SS	Fluke-750PA5	**30PJ48**	
	0 to 100 psi (0 to 700 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA6	**30PJ49**	
	0 to 300 psi (0 to 2000 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA27	**30PJ50**	
	0 to 500 psi (0 to 3500 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA7	**30PJ51**	
	0 to 1000 psi (0 to 7000 kPa)	0.03 %%	0.06 %	SS	Fluke-750PA8	**30PJ52**	
	0 to 1500 psi (0 to 10 MPa)	0.03 %%	0.06 %	SS	Fluke-750PA9	**30PJ53**	
Differential							
316 SS	0 to 1 psi (0 to 7 kPa)	0.05 %%	0.1 %	SS	Fluke-750P22	**30PJ32**	†
	0 to 5 psi (0 to 35 kPa)	0.02 %%	0.04 %	SS	Fluke-750P23	**30PJ33**	†
	0 to 15 psi (0 to 100 kPa)	0.017 %%	0.035 %	SS	Fluke-750P24	**30PJ35**	†
Non-Corrosive Gas	0 to 0.03 psi	0.15 %%	0.3 %	SS	Fluke-750P00	**30PJ30**	†
	0 to 0.36 psi (0 to 2.5 kPa)	0.1 %%	0.2 %	SS	Fluke-750P01	**30PJ31**	†
	0 to 1 psi (0 to 7 kPa)	0.05 %%	0.1 %	SS	Fluke-750P02	**30PJ77**	†
	0 to 5 psi (0 to 35 kPa)	0.02 %%	0.04 %	SS	Fluke-750P03	**30PJ76**	†
	0 to 15 psi (0 to 100 kPa)	0.017 %%	0.035 %	SS	Fluke-750P04	**30PJ34**	†
Dual							
316 SS	-15 to 15 psi (-100 to 100 kPa)	0.017 %%	0.035 %	SS	Fluke-750PD4	**30PJ59**	†
	-15 to 30 psi (-100 to 200 kPa)	0.017 %%	0.035 %	SS	Fluke-750PD5	**30PJ60**	
	-15 to 50 psi (-100 to 350 kPa)	0.017 %%	0.035 %	SS	Fluke-750PD50	**30PJ61**	
	-15 to 100 psi (-100 to 700 kPa)	0.017 %%	0.035 %	SS	Fluke-750PD6	**30PJ62**	
	-15 to 200 psi (-100 to 1400 KPa)	0.017 %%	0.035 %	SS	Fluke-750PD7	**30PJ63**	
	-15 to 300 psi (-100 to 2000 kPa)	0.017 %%	0.035 %	SS	Fluke-750PD27	**30PJ64**	
	-10 to 10 psi (-70 to 70 kPa)	0.025 %%	0.05 %	SS	Fluke-750PD10	**30PJ58**	†
	-5 to 5 (-35 to 35 kPa)	0.03 %%	0.06 %	SS	Fluke-750PD3	**30PJ57**	†
	-1 to 1 psi (-7 to 7 kPa)	0.05 %%	0.1 %	SS	Fluke-750PD2	**30PJ56**	†
Gauge							
316 SS	0 to 30 psi (0 to 200 KPa)	0.017 %%	0.035 %	SS	Fluke-750P05	**30PJ36**	
	0 to 100 psi (0 to 700 kPa)	0.017 %%	0.035 %	SS	Fluke-750P06	**30PJ37**	
	0 to 300 psi (0 to 2000 kPa)	0.017 %%	0.035 %	SS	Fluke-750P27	**30PJ38**	
	0 to 500 psi (0 to 3500 kPa)	0.017 %%	0.035 %	SS	Fluke-750P07	**30PJ39**	
	0 to 1000 psi (0 to 7000 kPa)	0.017 %%	0.035 %	SS	Fluke-750P08	**30PJ40**	
	0 to 1500 psi (0 to 10 MPa)	0.017 %%	0.035 %	SS	Fluke-750P09	**30PJ41**	
	0 to 2000 psi (0 to 14 MPa)	0.017 %%	0.035 %	SS	Fluke-750P2000	**30PJ42**	
High Pressure							
316 SS	0 to 3000 psi (0 to 20 MPa)	0.017 %%	0.035 %	SS	Fluke-750P29	**30PJ43**	
	0 to 5000 psi (0 to 34 MPa)	0.017 %%	0.035 %	SS	Fluke-750P30	**30PJ44**	
	0 to 10000 psi (0 to 70 MPa)	0.017 %%	0.035 %	SS	Fluke-750P31	**30PJ45**	
Intrinsically Safe/Gage							
316 SS	0 to 15 psi (0 to 100 kPa)	0.017 %%	0.045 %	316 SS	FLK-750P24EX	**48FX90**	
	0 to 15 psi (0 to 100 kPa)	0.03 %%	0.07 %	316 SS	FLK-750PA4EX	**48FX96**	
	0 to 30 psi (0 to 200 KPa)	0.017 %%	0.045 %	316 SS	FLK-750P05EX	**48FX91**	
	0 to 100 psi (0 to 700 kPa)	0.017 %%	0.045 %	316 SS	FLK-750P06EX	**48FX92**	
	0 to 300 psi (0 to 200 kPa)	0.017 %%	0.045 %	316 SS	FLK-750P27EX	**48FX93**	
	0 to 1500 psi (0 to 10 MPa)	0.017 %%	0.045 %	316 SS	FLK-750P09EX	**48FX94**	
	0 to 3000 psi (0 to 20 MPa)	0.017 %%	0.045 %	316 SS	FLK-750P29EX	**48FX95**	
Non-Corrosive Gas	10 in wc (2.5 kPa)	0.01 %%	0.03 %	316 SS	FLK-750P01EX	**48FX89**	
Reference							
316 SS	-12 to 100 psi (-80 to 700 kPa)	0.01 %%	0.02 %	SS	Fluke-750RD6	**30PJ74**	
	-12 to 300 psi (-80 to 2000 kPa)	0.01 %%	0.02 %	SS	Fluke-750RD27	**30PJ75**	
	0 to 100 psi (0 to 700 kPa)	0.01 %%	0.02 %	SS	Fluke-750R06	**30PJ66**	
	0 to 300 psi (0 to 2000 kPa)	0.01 %%	0.02 %	SS	Fluke-750R27	**30PJ67**	
	0 to 500 psi (0 to 3500 kPa)	0.01 %%	0.02 %	SS	Fluke-750R07	**30PJ68**	
	0 to 1000 psi (0 to 7000 kPa)	0.01 %%	0.02 %	SS	Fluke-750R08	**30PJ69**	
	0 to 3000 psi (0 to 20 MPa)	0.01 %%	0.02 %	SS	Fluke-750R29	**30PJ70**	
	0 to 5000 psi (0 to 34 MPa)	0.01 %%	0.02 %	SS	Fluke-750R30	**30PJ71**	
	0 to 10000 psi (0 to 700 MPa)	0.01 %%	0.02 %	SS	Fluke-750R31	**30PJ72**	
Non-Corrosive Gas	-15 to 30 psi (-100 to 200 kPa)	0.01 %%	0.02 %	SS	Fluke-750RD5	**30PJ73**	
	0 to 15 psi (0 to 100 kPa)	0.01 %%	0.02 %	SS	Fluke-750R04	**30PJ65**	†
Vacuum							
316 SS	-15 psi (-100 kPa)	0.03 %%	0.06 %	SS	Fluke-750PV4	**30PJ55**	†
	-5 psi (-35 kPa)	0.03 %%	0.06 %	SS	Fluke-750PV3	**30PJ54**	†

Description	For Use With	Mfr. Model	Item No.
Process Tool Accessories			
Low-pressure Test Pump	Fluke 700 Series Pressure Modules and Fluke 717 Series Calibrators	FLUKE-700LTP-1	**2GXE4**
Pneumatic Test Pump	Fluke 700 Series Pressure Modules and Fluke 717 Series Calibrators	FLUKE-700PTP-1	**2GXE3**
Pneumatic Test Pump	Fluke Pressure Calibrators	FLK-700PTPK2	**40JM63**
Hydraulic Test Pump	Fluke Pressure Calibrators	FLK-700HTPK2	**40JM64**
Hydraulic Hand Pump Kit	—	FLUKE-700HTPK	**16L018**
Pneumatic Hand Pump Kit	—	FLUKE-700PTPK	**16L019**
Hydraulic Hand Pump	—	FLUKE-700HTP-2	**16L020**
Hydraulic Test Hose	Fluke 700 Series Pressure Modules and Fluke 717 Series Calibrators	FLUKE-700HTH-1	**2GXE7**
Pressure Relief Valve Kit	Fluke 700 Series Pressure Modules and Fluke 717 Series Calibrators	FLUKE-700PRV-1	**2GXE6**
Data Logging Cable and Software	700G Series Test Gauges	700G/TRACK	**16L017**
Precision Pressure Pump	Fluke 700 Series Pressure Modules and Fluke 717 Series Calibrators	FLUKE-700PMP	**3KRE5**

** External pump required. † Low Side Media Compatible with Non-Corrosive Gas.*

Pressure Calibrators and Modules

FLUKE

Calibration tools and calibrators are made for industrial instrument technicians.

FLUKE 710 SERIES PRESSURE CALIBRATORS

- Switch test captures set, reset, and deadband

Easy-to-use, complete pressure calibration solution sources/measures pressure and vacuum. 717 Series requires external pump, sold separately. 718 Series have an internal hand pump that generates pressures up to 300 psi. 719 Series have an electric pump for one-handed pressure calibration; source/simulate 4 to 20mA.

FLUKE 750P SERIES PRESSURE MODULES

- 0 to 1" H_20 to 10,000 psi

Gauge pressure modules have 1 pressure fitting and measure the pressure with respect to atmosphere. Differential pressure modules have 2 pressure fittings and measure the difference between the applied pressure on the high fitting versus the low fitting. Each module is clearly labeled for range, overpressure, and media compatibility. All modules include NPT, metric (BSP), and M20 adapters.

PROCESS TOOL ACCESSORIES

Fluke 700LTP-1 Low-Pressure Test Pump

Hand-operated pump generates either vacuum to -13 psi (-0.90 bar) or pressures to 100 psi (6.9 bar). Has 2 pressure ports with quick-fit connectors. Test hoses are terminated with ¼" NPT female fittings adapted with BSP/ISO adapters.

Fluke 700PTP-1 Pneumatic Test Pump

Capable of supplying pressures up to 600 psi (40 bar). For use with 700 Series pressure modules or test gauges.

Fluke 700HTPK Hydraulic Test Pump Kit

Includes 700HTP-2 test pump, 700HTH-1 hose kit, and adapters for connection to high-pressure gauges, pressure modules, or 717 Series pressure calibrators to be tested.

Fluke 700PTPK-1 Pneumatic Test Pump Kit

Includes 700PTP-1 test pump and hoses and adapters for connection to the gauges, pressure modules, or pressure calibrators to be tested.

Fluke 700HTP-2 Hydraulic Test Pump

Hand-operated. Generates calibration pressures up to 10,000 psi (690m bar). For high-pressure testing of gauges, pressure modules, or 717 Series pressure calibrators.

Fluke 700HTH-1 Hydraulic Test Hose

10,000 psi (690 bar) working pressure. Stainless steel and nylon construction. Connects a Fluke 700HTP-1 or other hydraulic test pump to a unit under test.

Fluke 700PRV-1 Pressure Relief Valve Kit

Has a relief value settable from 725 to 5800 psi (50 to 200 bar) for use with 700HTP-1 Hydraulic Test Pump. ⅛" NPT male thread fits directly into the Fluke 700HTP-1 Pressure Pump.

Charts sold separately; see page 599.

3" Chart, Super Compact

4" Chart, 3½"-Digital Display

8" Chart with Thermocouple

DICKSON

Temperature and Temperature/Humidity Chart Recorders

- Temp. accuracy: ±1.8°F, except 3" chart models are ±2°F

Selectable chart rotation time and temperature range. Flip-up pen arm eases chart and pen changes. Temperature/humidity models have a 0% to 95% RH range; humidity accuracy is ±2% (10 to 60%), ±3% (60 to 95%).

3" Chart—Record temperature ranges in refrigerators, freezers, and incubators, and ambient conditions. Freestanding, wall-mounted, or suspended.

- Dim.: 3.7"L x 3.7"W x 2.3"D

4" Chart—Compact, portable instruments detect and record temperature changes in warehouses, commercial buildings, and critical storage areas.

- Dim.: 5.2"L x 5.2"W x 2.4"D

6" Chart—With probe for remote measurement, except 1NFH8 and 1NFJ2.

- Dim.: 7.56"L x 7.56"W x 3.25"D

8" Chart—Operate on 120VAC with AA battery backup.

- Dim.: 9.2"L x 9.2"W x 3.1"D

Recording Time (day)	Temp. Range	Includes	Display	Alarm	Calibration Certificate	Item No.
3 in" Chart Size, Circular Chart Recorder						
Temperature						
1 or 7	-15° to 10°C, 4° to 50°F	(1) AA Battery, (1) Red Pen	No	No	No	**5KE59**
	-14° to 32°F, -25° to 0°C		No	No	No	**5KE57**
	-5° to 20°C, 22° to 68°F		No	No	No	**5KE61**
	10° to 35°C, 50° to 96°F		No	No	No	**5KE63**
	25° to 50°C, 76° to 122°F		No	No	No	**5KE65**
4 in" Chart Size, Circular Chart Recorder						
1 or 7	-22° to 122°F, -30° to 50°C	(1) AA Battery, (1) Red Pen	Yes	No	No	**2HZD3**
			Yes	No	NIST	**3DPA8**
	-18° to 37°C, 0° to 100°F		Yes	No	No	**2HZD1**
			Yes	No	NIST	**3DPA7**
6 in" Chart Size, Circular Chart Recorder						
Temperature and Humidity						
1 or 7	0° to 50°C, 32° to 100°F	(1) AC Adapter, (1) Blue Pen, (1) Red Pen, (4) AA Batteries	No	No	No	**1NFH8**
			Yes	No	No	**1NFJ2**
			No	No	NIST	**16L003**
			Yes	No	NIST	**16L004**
	0° to 100°F, 0° to 185°F, 0° to 50°C, 0° to 85°C		Yes	Yes	No	**1NFJ3**
			Yes	Yes	NIST	**16L005**
Temperature (Type K Thermocouple)						
1 or 7	-100° to 0° F/C, -50° to 0° F/C, -50° to 50° F/C, 0° to 100° F/C, 0° to 250° F/C, 0° to 50° F/C, 0° to 500° F, 50° to 100° F/C	(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (4) AA Batteries	No	No	No	**1NFH4**
			Yes	No	No	**1NFH6**
			Yes	Yes	No	**2CHH3**
Temperature						
1 or 7	-100° to 0° F/C, -50° to 0° F/C, -50° to 50° F/C, 0° to 100° F/C, 0° to 250° F/C, 0° to 50° F/C, 0° to 500° F, 50° to 100° F/C	(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (4) AA Batteries	No	No	NIST	**16K995**
			Yes	No	NIST	**16K996**
		(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (1) Replaceable Sensor, (4) AA Batteries	Yes	Yes	NIST	**16K997**
8 in" Chart Size, Circular Chart Recorder						
Temperature and Humidity						
1, 31, 7	-20° to 120°F, -20° to 50°C, 0° to 185°F, 0° to 50°C, 32° to 120°F, 40° to 110° F, 5° to 40°C	(1) AC Adapter, (1) Blue Pen, (1) Red Pen, (4) AA Batteries	Yes	Yes	No	**23MD05**
	-20° to 120°F, -20° to 50°C, 0° to 185°F, 40° to 110° F, 5° to 40°C		Yes	Yes	No	**23MD06**
1 or 7	0° to 50°C, 32° to 120°F	(1) Blue Pen, (1) Red Pen, (4) AA Batteries	No	No	No	**23MD03**
1, 31, 7	0° to 50°C, 32° to 120°F, 40°F to 110°F, 5 to 40°C	(1) AC Adapter, (1) Blue Pen, (1) Red Pen, (4) AA Batteries	Yes	No	No	**23MD04**
Temperature (Type K Thermocouple)						
1, 31, 7	-20° to 20° F/C, -50° to 50° F/C, 0° to 100° F/C, 0° to 1000° F/C, 0° to 150° F/C, 0° to 2000° F, 0° to 250° F/C, 0° to 500° F/C, 20° to 100° F/C, 50° to 150° F/C	(2) 4 ft. Wire Bead Probes, (4) AA Batteries, AC Adapter, Blue Pen, Red Pen	Yes	Yes	No	**6ETG5**
		(1) AC Adapter, (1) Red Pen, (2) 4 ft. Wire Bead Probes, (4) AA Batteries	Yes	Yes	NIST	**16L002**
1 or 7	-20° to 20° F/C, -50° to 50° F/C, 0° to 100° F/C, 0° to 1000° F/C, 0° to 150° F/C, 0° to 2000° F, 0° to 250° F/C, 0° to 500° F/C, 50° to 150° F/C	(1) 4 ft. Wire Bead Probe, (1) Red Pen, (4) AA Batteries	No	No	NIST	**30ZX13**
1, 31, 7		(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (1) Replaceable Sensor, (4) AA Batteries	Yes	No	NIST	**30ZX14**
		(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (4) AA Batteries	Yes	Yes	NIST	**30ZX15**
1 or 7		(1) 4 ft. Wire Bead Probe, (1) Red Pen, (1) Replaceable Sensor, (4) AA Batteries	No	No	No	**19YM20**
1, 31, 7		(1) 4 ft. Wire Bead Probe, (1) Quick Start Guide, (1) Red Pen, (4) AA Batteries	Yes	No	No	**19YM21**
		(1) 4 ft. Wire Bead Probe, (1) AC Adapter, (1) Red Pen, (1) Replaceable Sensor, (4) AA Batteries	Yes	Yes	No	**19YM22**
Accessory						
Remote Probe Dust Filter - For Use with 1APA5						**1APB3**

Specialty Recorders

DICKSON

4" Chart Pressure Recorder

4" CHART PRESSURE RECORDERS

- Battery operated
- Dim.: 6.25"L x 6"W x 2.9"D
- ¼" NPT connection, nut not required

Instruments provide 7-day or 24-hr. pressure records for water, gas, and utility pipes. RH range: 0% to 95% noncondensing. Include pen and AA battery.

8" CHART UNIVERSAL INPUT RECORDER

- 120VAC
- Dim.: 9.2"L x 9.2"W x 3.1"D
- Input range: 0 to 20mA, 4 to 20mA 0 to 5VDC, 1 to 5VDC

Remote sensing capability for voltage or current transmitters. Features selectable output and recording times. High/Low alarms and Min./Max. readings. Charts sold separately. Includes pen and AC adapter.

DISPOSABLE TEMPERATURE RECORDERS

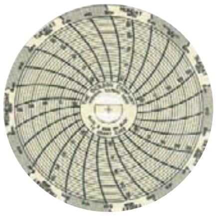
- Self-contained power source
- Operating range: 0% to 95% RH (noncondensing)
- Dim.: 5.5"L x 4.12"W x 2.5"D

Suitable for proving the integrity of shipments with temperature-critical storage parameters. Include Document of Shipping sheet and mounting tape.

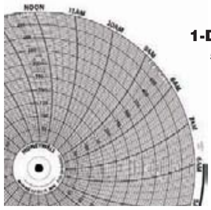
Recording Time (day)	Pressure Range	Temp. Range	Mfr. Model	Item No.
4 in" Chart, Pressure Recorders, 2% of Full Scale Accuracy				
1 or 7	0 to 100 psi psi	-22° to 122°F, -30° to 50°C	PW470	**16A179**
1 or 7	0 to 200 psi psi	-22° to 122°F, -30° to 50°C	PW474	**16A180**
1 or 7	0 to 300 psi psi	-22° to 122°F, -30° to 50°C	PW476	**16A181**
1 or 7	0 to 500 psi psi	-22° to 122°F, -30° to 50°C	PW479	**16A182**
8 in" Chart, Universal Input Recorder, +/-3% Full Scale Accuracy				
1 or 7	—	—	ET855	**1CFB2**
Disposable Temperature Recorder, +/-1°F (10° to 70°F) Accuracy				
20 day	—	-20 Degrees to 100 Degrees F, -30 Degrees to 37.5 Degrees C	D302	**3JG69**
Snubber/Filter Kit, For Use With Mfr. No. PR100, Mfr. Series PW4, PR125, PR300, PR325, PR500, PR525, PR8			R022	**3LC50**

Graphic Controls DICKSON Honeywell

Circular Charts



7-Day Chart
3JG31



1-Day Chart
5MED9

Range	Pkg. Qty.	1-DAY CHARTS Item No.	7-DAY CHARTS Item No.	24 hr-DAY CHARTS Item No.
3 in" Chart Size				
Graphic Controls				
10° to 35°C	60	30ZX33	30ZX25	—
25° to 50°C	60	30ZX38	30ZX36	—
-5° to 20°C	60	30ZX32	30ZX35	—
-14° to 32°F	60	30ZX29	30ZX23	—
-15° to 10°C	60	—	30ZX30	—
-15° to 50°F	60	—	30ZX27	—
4° to 50°F	60	30ZX39	30ZX26	—
22° to 68°F	60	30ZX40	30ZX24	—
-25° to 0°C	60	30ZX37	30ZX34	—
50° to 96°F	60	30ZX28	—	—
76° to 122°F	60	30ZX41	30ZX31	—
Dickson				
-14° to 32°F	60	3ELU1	3JG31	—
4° to 50°F	60	3JG32	3JG33	—
10° to 35°C	60	3ELV1	3ELT3	—
22° to 68°F	60	5KE69	5KE67	—
50° to 96°F	60	3JG34	3JG35	—
76° to 122°F	60	5KE71	5KE73	—
4 in" Chart Size				
Graphic Controls				
0° to 150°F	60	30ZX58	—	—
0° to 250°F/C	60	30ZX71	—	—
0 to 45	60	30ZX73	30ZX57	—
0 to 60 psi	60	30ZX65	30ZX66	—
0 to 100	60	30ZX43	30ZX42	—
0 to 150 psi	60	30ZX55	30ZX69	—
0 to 200 psi	60	30ZX44	30ZX45	—
0 to 300 psi	60	30ZX62	30ZX48	—
0 to 500 psi	60	30ZX59	30ZX63	—
0 to 600 psi	60	—	30ZX68	—
-10° to 40°C	60	—	30ZX70	—
120 to 240V AC	60	30ZX64	30ZX67	—
-18° to 37°C	60	30ZX56	30ZX52	—
-20° to 120°F	60	30ZX76	30ZX46	—
-22° to 122°F	60	—	30ZX50	—
-30° to 50°C	60	30ZX49	30ZX47	—
-40 to 50	60	30ZX72	30ZX53	—
45° to 90°F	60	30ZX75	—	—
-50° to 50°F/C	60	—	30ZX61	—
7° to 32°C	60	—	30ZX60	—
45° to 90°F/C	60	—	30ZX51	—
-50° to 50°C	60	30ZX74	—	—
Dickson				
0° to 100°F	60	1LXJ8	—	—
0 to 45	60	—	3ELT5	—
0 to 60	60	3ELU9	3ELT6	—
0 to 100	60	—	1LXJ7	—
0 to 200 psi	60	1LXK1	1LXK6	—
0 to 300 psi	60	3ELT7	—	—
0 to 500 psi	60	—	3ELU3	—
-18° to 37°C	60	—	3ELT9	—
-20° to 120°F	60	1LXK2	1LXJ9	—
-22° to 122°F	60	3ELT8	3ELV4	—
-30° to 50°C	60	1XWH9	1XWJ1	—
-40 to 50	60	—	3ELU5	—
45° to 90°F	60	2HZD4	1LXL2	—
-50 to 50	60	—	3ELT4	—
6 in" Chart Size				
Graphic Controls				
0° to -100°F/C	60	—	30ZX90	—
0° to 50°C	60	30ZY02	30ZX81	—
0° to 200°F	60	30ZX97	—	—
0° to 200°F/C	60	—	30ZX99	—
0° to 250°F/C	60	30ZX82	30ZX78	—
0° to 500°F	60	30ZX83	30ZX92	—
0 to 14 psi	60	—	30ZX94	—
0 to 100 psi	60	—	30ZX93	—
0 to 200 psi	60	—	30ZX87	—
0 to 300 psi	60	30ZX96	30ZX88	—
0 to 300 psi	60	—	30ZX91	—
-10° to 10°C	60	—	30ZX95	—
-20° to 120°F/C	60	—	30ZX85	—
-100 Degrees to 0 Degrees F, 0 Degrees to 100 Degrees C	60	30ZX80	30ZX77	—
50° to 100°F/C	60	30ZX98	30ZX89	—
-50° to 50°F/C	60	30ZY01	30ZX79	—
-50 Degrees to 0 Degrees F, 0 Degrees to 50 Degrees C	60	30ZX86	30ZY03	—
60 to -40	60	30ZX84	—	—
Dickson				
0° to +/-50°F/C	60	1LXL9	1LXL3	—
0° to 50°C	60	1NFJ1	1NFH9	—
0° to 200°F	60	1NFJ4	1LXL7	—
0° to 250°F/C	60	1LXK4	1LXK7	—
0° to 500°F	60	1LXK9	1LXL5	—
0 Degrees to +/-100 Degrees F/C, 0 to 100	60	1LXK8	1LXJ6	—
-100° to 0°F/C	60	—	3ELU7	—
50° to 100°F/C	60	1NFH5	1LXL8	—
-50° to 50°F/C	60	1LXL6	1LXK5	—
8 in" Chart Size				
Honeywell				
0 to 50	100	—	5MEC6	—
0 to 100	100	5MEC1	5MEC2	—
Graphic Controls				
-0.1 to 0.1	60	30ZY47	30ZY56	—
-0.15 to 0.25, -150 to 250	60	30ZY29	30ZY59	—
0° to 150°F/C	60	30ZY49	30ZY57	—
0° to 200°F	60	—	30ZY15	—
0° to 250°F/C	60	30ZY08	30ZY07	—
0° to 500°F/C	60	30ZY16	30ZY48	—
0° to 1000°F/C	60	—	30ZY51	—
0° to 2000°F	60	30ZY43	30ZY38	—
0 Degrees to 100 Degrees C, 5 Degrees to 40 Degrees C	60	30ZY58	—	—
0 Degrees to 100 Degrees F, 0 to 200 psi	60	30ZY50	—	—
0 to 10	60	30ZY27	30ZY19	—
0 to 14	60	30ZY46	30ZY55	—
0 to 30	60	30ZY20	30ZY25	—
0 to 50	100	19D944	—	—
0 to 60	60	30ZY23	30ZY21	—
0 to 100 psi	60	30ZY06	30ZY05	—
0 to 200	60	30ZY37	30ZY36	—
0 to 300	60	30ZY52	30ZY41	—
0 to 1000	60	30ZY35	—	—
20° to 100°F/C	60	30ZY18	30ZY22	—
120 to 240V AC	60	30ZY28	—	—
-20° to 20°F/C	60	30ZY31	30ZY26	—
-20° to 50°F	60	30ZY40	30ZY11	—
-20 Degrees to 120 Degrees F, 0 Degrees to 100 Degrees C	60	—	30ZY12	—
-20 Degrees to 120 Degrees F, 0 Degrees to 120 Degrees C	60	30ZY09	—	—
-30° to 50°C	60	—	30ZY32	—
40° to 110°F	60	30ZY60	30ZY17	—
-40° to 50°F/C	60	—	30ZY33	—
5° to 40°C	60	—	30ZY54	—
50° to 150°F/C	60	30ZY30	30ZY34	—
-50° to 50°F/C	60	30ZY39	30ZY13	—
Dickson				
0° to 14°F	60	1CFB3	1CFB4	—
0° to 100°F/C	60	1PRT3	1PRT2	—
0° to 150°F	60	1CFB5	1CFB6	—
0° to 200°F/C	60	1APB7	1APB6	—
0° to 250°F/C	60	1PRV3	1PRV2	—
0° to 300°F	60	1CFB7	—	—
0° to 500°F/C	60	1PRU9	1PRU8	—
0° to 1000°F/C	60	1PRT7	1PRT6	—
0° to 2000°F	60	1PRT5	1PRT4	—
0 Degrees to 200 Degrees F/C, 0 to 100% RH	60	3ANR8	3ANR7	—
0 to 300	60	—	1CFB8	—
-20° to 20°F/C	60	—	3ELV3	—
-20° to 50°C	60	1APB8	1APB9	—
-20° to 120°F	60	1APB4	1APB5	—
5° to 40°C	60	1APD3	1APD4	—
40° to 110°F	60	1APD1	1APD2	—
-50° to 50°F/C	60	1PRV6	—	—
10 in" Chart Size				
Graphic Controls				
0 to 5.0	100	5MEP7	—	—
0 to 100	100	5MEN5	5MEN6	—
0 to 200	100	5MEL3	5MEL6	—
0 to 300	100	5MEN9	5MEP0	—
0 to 400	100	—	5MEL7	5MEL4
0 to 800	100	5MEL5	19D974	—
0 to 1000	100	5MEN2	19D977	—
0 to 1200	100	5MEL9	19D975	—
0 to 1500	100	5MEN3	19D978	—
0 to 2000	100	5MEL8	19D973	—
0 to 2500	100	5MEP2	19D981	—
30 to 230	100	5MEN7	19D979	—
-50 to 50	100	19D980	5MEP1	—
10.3 in" Chart Size				
Honeywell				
0 to 14	100	5MEE7	5MEJ5	—
0 to 15	100	5MEG7	—	—
0 to 25	100	—	5MEK7	—
0 to 30	100	5MEE8	—	—
0 to 50	100	5MEG4	5MEJ8	—
0 to 100	100	—	5MEH6	—
0 to 100	100	—	5MEK9	—
0 to 150	100	5MEF7	—	—
0 to 200	100	5MED6	5MEH7	—
0 to 250	100	5MEE3	5MEJ3	—
0 to 300	100	5MEC8	5MEJ7	—
0 to 300	100	5MEF5	5MEK1	—
0 to 400	100	5MED7	5MEH8	—
0 to 400	100	5MED8	—	—
0 to 500	100	5MED9	—	—
0 to 600	100	5MEC9	—	—
0 to 600	100	5MEF2	—	—
0 to 800	100	5MEE0	—	—
0 to 1000	100	5MEE1	—	—
0 to 1200	100	5MED0	—	—
0 to 1200	100	5MED2	—	—
0 to 1600	100	5MEE2	—	—
0 to 2000	100	5MED1	5MEH9	—
0 to 2400	100	5MED5	5MEJ0	—
-5 to 50	100	—	5MEJ1	—
-35 to 75	100	—	5MEJ2	—
-40 to 60	100	—	5MEK2	—
-50 to 25	100	—	5MEJ6	—
-100 to 200	100	5MEH2	—	—
-250 to 150	100	5MEE9	—	—
50 to 250	100	5MED4	—	—
50 to 250	100	5MEG3	—	—
50 to 650	100	5MEF3	—	—
-85 to 190	100	5MEF0	—	—
-90 to 210	100	5MEE6	5MEJ4	—
-100 to 100	100	—	5MEK3	—
Graphic Controls				
0 to 15	100	—	19D971	—
0 to 25	100	19D951	—	—
0 to 30	100	—	19D964	—
0 to 150	100	—	19D970	—
0 to 400	100	—	19D953	—
0 to 500	100	—	19D954	—
0 to 600	100	—	19D967	—
0 to 600	100	—	19D955	—
0 to 800	100	—	19D956	—
0 to 1000	100	—	19D961	—
0 to 1000	100	—	19D957	—
0 to 1200	100	—	19D959	—
0 to 1200	100	—	19D958	—
0 to 1600	100	—	19D960	—
-5 to 50	100	19D946	—	—
-35 to 75	100	19D947	—	—
-40 to 60	100	19D949	—	—
-50 to 25	100	19D948	—	—
-100 to 100	100	19D950	—	—
-100 to 200	100	—	19D972	—
-250 to 150	100	—	19D965	—
50 to 250	100	—	19D952	—
50 to 650	100	—	19D968	—
10.313 in" Chart Size				
-85 to 190	100	—	19D966	—
11.8 in" Chart Size				
Honeywell				
0 to 14	100	5MEC0	—	—
0 to 100	100	5MEC3	5MEA3	—
0 to 600	100	5MEA5	—	—
Graphic Controls				
0 to 14	100	—	19D940	—
0 to 200	100	5MER2	19D982	—
0 to 250	100	—	19D942	—
0 to 600	100	—	19D941	—
30 to 230	100	5MER3	—	—
11.875 in" Chart Size				
Honeywell				
0 to 250	100	5MEA4	—	—
12 in" Chart Size				
No Range	100	5MER8	—	—

Range	Pkg. Qty.	5 hr-DAY CHARTS Item No.	31-DAY CHARTS Item No.
4 in Chart Size			
Graphic Controls			
0 to 200 psi	60	30ZX54	—
8 in Chart Size			
Graphic Controls			
0° to 100°F/C	60	—	30ZY04
0° to 250°F/C	60	—	30ZY24
0° to 500°F/C	60	—	30ZY42
0 Degrees to 100 Degrees C, 5 Degrees to 40 Degrees C	60	—	30ZY53
0 Degrees to 100 Degrees F, 40 Degrees to 110 Degrees F	60	—	30ZY14
-20° to 50°F	60	—	30ZY45
-20 Degrees to 120 Degrees F, 0 Degrees to 100 Degrees C	60	—	30ZY10
-50° to 50°C	60	—	30ZY44

Description	Item No.	Pkg. Qty.
Replacement Pens		
Replacement Pen Kit (3 Red/Blue) - Use with Circular Chart Recorders	1APB2	1
Chart Recorder Pens (Red Pkg. 6) - For Use with all Dickson Chart Recorders	1LXJ5	6
Chart Recorder Pens (Red & Blue Pkg. 6) - For Use with all Dickson Chart Recorders	30ZY61	6
Chart Recorder Pens (Red Pkg. 6) - For Use with all Dickson Chart Recorders	30ZY62	6
Chart Recorder Cartridge		
For Use with all Partlow Recorders	5MFG5	1

6NZH4 6YNG3 40GT02 5WYT4 1UKE1 5WYT5 49AW78

49AW82 15X981 3YXP8 23NU19 15X978 20VC74 3MLG4 3MLK7

Moisture Meters

AMPROBE EXTECH FLIR GENERAL TRAMEX

All except 20VC74 include batteries.

Item	Moisture Content	Display	Interface	Memory	Data Hold	Battery Type	Mfr. Model	Item No.
Amprobe								
Moisture Meter	0.30% to 2.0% (Building Material), 8% to 60% (Wood/Paper)	Dual, LCD and LED	No	No	No	9V	MT-10	**6NZH4**
Extech								
Combination Pin/ Pinless Moisture Meter	0% to 99.9% (Relative to Pinless), 0% to 99.9% (Wood to Pin)	LCD	No	No	No	9V	MO290-NISTL	**6YNG8**
	0% to 99.9% (Relative)	Dual Line LCD	No	No	Yes	9V	MO290	**2ENE8**
Digital Pin Moisture Meter	0.2% to 2.0% (Building Materials), 6% to 44% (Wood)	3 Digit LCD with Bargraph	No	No	No	CR2032	MO210	**1UKE2**
	0.1% to 2.4% (Other Building Materials), 1% to 75% (Wood)	Dual Graphical LCD with Analog Bargraph	No	No	No	CR2032	MO230	**6YNG3**
Moisture Meter	1.5% to 33% (Building Materials), 5% to 50% (Wood)	LCD	No	No	Yes	9V	MO50	**40GT02**
Pin/Pinless Moisture Meter	0% to 99.9% (Relative to Pinless), 6% to 94.8% (Wood to Pin)	LCD with Tri-Color LED Bargraph	No	No	Yes	9V	MO260	**5WYT4**
	0% to 99.9% (Relative to Pinless), 6% to 99.9% (Wood to Pin)	LCD with Tri-Color LED Bargraph	No	No	Yes	9V	MO265	**6YNG4**
Pinless Digital Moisture Meter	0% to 99% (Wood)	3 Digit LCD	—	—	Yes	9V	MO280	**1UKE1**
Pinless Moisture Meter	0% to 100% (Relative)	Backlit LCD	No	No	Automatic	AA	MO257	**5WYT5**
FLIR								
Imaging Moisture Meter	0% to 100% (Pinless), 7% to 30% (Pin)	2.3 in 64K Color TFT Graphical	USB	9,999 Readings	No	3.7V	MR160 Pro Kit	**49AW78**
Imaging Moisture Meter Pro	0% to 100% (Pinless), 7% to 30% (Pin)	2.3 in 64K Color TFT Graphical	USB	9,999 Readings	No	3.7V	MR176 Pro Kit	**49AW79**
Moisture Meter	0% to 100% (Pinless), 7% to 30% (Pin)	2.3 in 64K Color TFT Graphical	USB	9,999 Readings	No	3.7V	MR60	**49AW82**
General								
Digital Moisture Meter Kit	5.5% to 99.9%	Backlit LCD	—	99 Readings	Yes	9V	MM70D-7022KIT	**4ENF7**
General Purpose Moisture Meter	0% to 50%	LCD	No	No	Yes	AA	MM6012	**15X981**
Moisture Meter	0% to 100% (Concrete), 6% to 40% (Wood)	LED and LCD Digital Display	No	Min/Max Readings Can Be Saved And Viewed	Hold, Record (Min/Max)	9V	MMD7003	**3YXP8**
	0% to 99%	Backlit LCD	No	No	Yes	9V	23NU19	**23NU19**
	1.5% to 33% (Building Materials), 5% to 50% (Wood)	Backlit LCD	Bluetooth	No	Yes	9V	TS06	**53CJ26**
Pin/Pinless Deep Sensing Moisture Meter	0.1% to 99.9% (Relative), 6.0% to 87.6% (WME)	0 to 99.9 Count LCD and 40-Dot Tri-Color Bar Graph	No	No	Yes	9V	MMD900	**15X980**
Pin/Pinless Moisture Meter with Temperature and Humidity	1.5% to 33% (Building Materials), 5% to 50% (Wood)	LCD	No	No	Yes	9V	MMH800	**15X978**
Pinless LCD Moisture Meter	—	LCD	No	No	No	9V	MMD5NP	**3YXJ8**
Pinless Moisture Meter	0% to 35% (Hardwood), 0% to 53% (Softwood)	LCD with Tri-Color LED Bargraph	No	No	Yes	9V	MMD7NP	**41R114**
Soil Moisture Meter	Dry, Dry+, Normal, Wet, Wet+	LCD	No	No	No	9V	DSMM600	**20VC74**
	0% to 99.9%	LCD	No	20 Readings	Yes	9V	RHMG650	**20VC77**
Tramex								
Concrete Moisture Meter	0% to 6% (Concrete)	Analog	No	No	Yes	9V	CME 4	**3MLG4**
	0% to 6.9% (Concrete), 7% to 40% (Wood)	Digital	No	No	Yes	9V	CMEX2	**45CY31**
Moisture Meter Kit	0% to 6.9% (Concrete), 7% to 40% (Wood)	Backlit LCD	No	No	Yes	(2) AA; 9V PP3	FIK	**787PN8**
Roof and Wall Moisture Scanner	0% to 100% (Relative)	Analog	No	No	Yes	9V	RWS	**3MLK7**

Water Damage Restoration Kit

EXTECH INSTRUMENTS

Tools for taking detailed measurements of moisture levels under baseboards, between walls, and in hardwood and plywood subfloors. Includes pinless moisture meter, pocket moisture meter, and precision hygrothermometer.

Description	Mfr. Model	Item No.
Water Damage Restoration Kit	MO280-KW	**2TKT8**

Infrared Thermometer Terminology

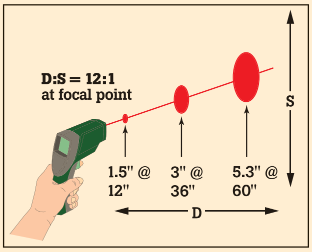
Noncontact IR thermometers determine temperature using thermal radiation from the object(s) being tested.

Focus Spot Size and Distance—Indicates the diameter measured at a given distance from the object. For example, 1" @ 12" indicates that a thermometer focuses on a 1"-dia. spot 12" from the thermometer.

Emissivity—A surface's ability to give off infrared radiation relative to a black body, which theoretically emits at 100% or 1.0. Material and surface texture affect emissivity. For example, a given polished metal may have an emissivity value of 0.20 and wood a value of 0.95. IR thermometer selection may consider whether a surface/immersion probe is required for adjustments to emissivity.

1-Dot Laser Sighting—A laser pointer identifies the target area.

2-Dot/Convergence/Dual Laser Sighting—2 lasers converge to a single point; a 1"-dia. around that point is the measurement area.



Focus Spot Size and Distance

Convergence

WESTWARD AMPROBE testo

Pocket-Style Infrared Thermometers

General purpose thermometers show readings on LCDs. Pocket-size portability makes it easy to take and use thermometers anywhere.

1VEP7

1VER1

34D332

49ZZ59

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Data Hold	Battery Type	Brand	Mfr. Model	Item No.
Infrared Thermometer										
1 in @ 1 in	-67° to 428°	+/-2.0% or +/-4.0° Whichever is Greater	0.95 fixed	Battery and Neck Lanyard	Single Dot	N/A	CR2032	Westward	1VEP7	**1VEP7**
1 in @ 1 in	-28° to 230°	+/-2.5% of Reading or +/-4.5° Whichever is Greater	0.95 fixed	Battery and Wrist Strap	Single Dot	Yes	LR44	Westward	1VER1	**1VER1**
1 in @ 6 in	-20° to 932°	+/-2.0% of Reading or +/-4.0° Whichever is Greater	Adjustable 0.10 to 1.00	Battery and Wrist Strap	Single Dot	Yes	AAA	Westward	54TZ28	**54TZ28**
1 in @ 8 in	-20° to 932°	+/-4.0° at 70.0° Nominal	0.95 fixed	Probe, Users Manual	Single Dot	Yes	AAA	Amprobe	IR-450	**34D332**
1 in @ 10 in	-22° to 482°	+/-1.5% of Reading or +/-2.7°From 32.0 to 482.0°, +/-3.6°From -4.0° to 32.0°, +/-4.5°From -22.0° to -4°	Adjustable 0.10 to 1.00	Wrist Strap, Batteries, Certificate of Calibration	Circular	Yes	(3) AAA	Testo	0560 1805 01	**49ZZ59**
Accessory										
Nylon Thermometer Pouch, Use with 2ZB46, 1VEP6, and 1VEP9								Westward	1VEP3	**1VEP3**

EXTECH INSTRUMENTS FLIR Milwaukee UEi TEST INSTRUMENTS

NIST Certified Infrared Thermometers

Easy-to-read LCDs quickly provide temperature readings.

6RGK8

49VU04

45PF92

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
Extech										
1 in @ 12 in	-58° to 1200°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery and Pouch Case	Single Dot	9V	Yes	NIST	42510A-NIST	**2LZV2**
1 in @ 12 in	-4° to 1202°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery, Case	Single Dot	9V	Yes	—	IR270-NIST	**55EP29**
1 in @ 30 in	-58° to 1832°	+/-4.5°	Adjustable 0.10 to 1.00	Instructions, Pouch Case, Battery	Convergence	9V	Yes	NIST	42512-NIST	**6RGK8**
1 in @ 50 in	-58° to 1832°	±2.0% of Reading	Adjustable 0.10 to 1.00	Battery and Carrying Case	Single Dot	9V	Yes	NIST	42545-NIST	**2LZV6**
1 in @ 50 in	-58° to 3992°	±1.0% of Reading	Adjustable 0.10 to 1.00	Type K Temperature Probe, USB Cable and Software, Carrying Case, Tripod, Battery and Instructions	Convergence	9V	Yes	NIST	42570-NISTL	**4TXH7**
FLIR										
1 in @ 24 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Batteries	Single Dot	AAA	Yes	NIST	TG54-NIST	**49VU04**
1 in @ 30 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Type K General Purpose Probe, Batteries	Single Dot	AAA	Yes	NIST	TG56-NIST	**49VU05**
Milwaukee										
1 in @ 10 in	-22° to 752°	±2.0%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2267-20NST	**45PF90**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2268-20NST	**45PF92**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	Manual and NIST Certification	Single Dot	M12	Yes	Yes	2278-20NST	**45PF96**
1 in @ 30 in	-40° to 1472°	±2.0%	Adjustable 0.10 to 0.99	(1) 9V Battery, Manual, K-Type Thermocouple, NIST Certification	Single Dot	9V	Yes	Yes	2269-20NST	**45PF94**
UEI Test Instruments										
1 in @ 12 in	-76° to 1022°	+/-2.0% or +/-4.0° Whichever is Greater	Adjustable 0.30, 0.70, 0.95	Holster, (2) AAA Batteries	Circular	AAA	Yes	NIST	INF195C-N	**49EL82**

20VC80 4TXH6 48FT96 485A80 45PF95 4XX07 328YL9 21CH59

AMPROBE EXTECH INSTRUMENTS FLIR GENERAL Milwaukee Raytek A Fluke Company REED INSTRUMENTS UEi TEST INSTRUMENTS

Infrared Thermometers

Noncontact thermometers have advanced features for a wide range of applications.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
Amprobe										
1 in @ 8 in	0° to 716°	±2.0%	0.95 fixed	Battery	Single Dot	9V	No	No	IR-708	**485A80**
1 in @ 20 in	-26° to 1922°	—	Adjustable 0.10 to 1.00	Carrying Bag, Battery and Instruction Manual	Single Dot	—	Yes	No	IR-720	**14K230** ‡
Extech										
1 in @ 8 in	-4° to 630°	+/-2.0% of Reading +4.0°	0.95 fixed	Battery, Case and Instructions	Single Dot	9V	Yes	No	IR400	**6XFV4**
1 in @ 12 in	-58° to 1112°	+/-3.6°	Adjustable 0.05 to 1.00	9V Battery, General Purpose Type K Bead Wire Probe and Instructions	Single Dot	9V	Yes	No	IR267	**53PZ24**
1 in @ 12 in	—	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery, Case	Single Dot	9V	Yes	No	IR270	**55EP28**
1 in @ 30 in	-58° to 1832°	+/-4.5°	Adjustable 0.10 to 1.00	Instructions, Pouch Case, 9V Battery	Single Dot	9V	Yes	No	42512	**2HZC4** ‡
1 in @ 50 in	-58° to 1832°	—	Adjustable 0.10 to 1.00	Battery and Carrying Case	Single Dot	9V	Yes	No	42545	**2TKT3** #
1 in @ 50 in	-58° to 3992°	±1.0% of Reading	Adjustable 0.10 to 1.00	Type K Temperature Probe, USB Cable and Software, Carrying Case, Tripod, Battery and Instructions	Single Dot	9V	Yes	No	42570	**4TXH6** *
FLIR										
1 in @ 24 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/ CD, Batteries	Single Dot	AAA	Yes	No	TG54	**48FT96**
1 in @ 30 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Wrist Strap Lanyard, Quick Start Guide, User Manual/CD, Type K General Purpose Probe, Batteries	Single Dot	AAA	Yes	No	TG56	**48FT97**
General										
1 in @ 12 in	-40° to 1076°	+/-2.0% of Reading or +/-3.0° Whichever is Greater above 32.0°, +/-2.0% of Reading or +/-5.0° Whichever is Greater below 32.0°	0.95 fixed	Battery	Single Dot	9V	Yes	No	TS05	**53CJ25**
1 in @ 50 in	-76° to 2732°	+/-1.8°From 59.0° to 95.0°, +/-2% of Reading or +/-3.6° Whichever is Greater from -27.0° to 59.0°, +/- 5.4°From 95.0° to 2732.0°	Adjustable 0.10 to 1.00	Hard Plastic Protective Case, User's Manual and Batteries	Single Dot	AAA	Yes	No	IRT850K	**20VC80**
Milwaukee										
1 in @ 10 in	-22° to 752°	±2.0%	0.95 fixed	(1) 9V Battery, Manual	Single Dot	9V	Yes	No	2267-20	**45PF89**
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	Manual	Single Dot	M12	Yes	No	2278-20	**45PF95**
1 in @ 30 in	-40° to 1472°	—	Adjustable 0.10 to 0.99	(1) 9V Battery, Manual, K-Type Thermocouple	Single Dot	9V	Yes	No	2269-20	**45PF93**
Raytek										
1 in @ 8 in	0° to 750°	+/-2.0% or +/-3.5° Whichever is Greater	0.95 fixed	Battery	Single Dot	9V	No	No	RAYMT4U	**4XX07**
Reed Instruments										
1 in @ 12 in	-31° to 1,202°F	±1.8% Reading or ±3.6°F	Adjustable 0.10 to 1.00	Carrying Case; Battery	Single	9V	Yes	No	R2310-NIST	**783H11**
1 in @ 12 in	-31° to 1,202°F	±1.8% Reading or ±3.6°F	Adjustable 0.10 to 1.00	Carrying Case; Battery	Single	9V	Yes	No	R2310	**783H20**
1 in @ 30 in	-26° to 1,472°F	±1.8% Reading or ±3.6°F	Adjustable 0.10 to 1.00	Carrying Case; Battery	Single	9V	Yes	No	R2320-NIST	**783H22**
1 in @ 50 in	-26° to 2282°	±1.8%	Adjustable 0.10 to 1.00	Carrying Case, Battery	Dual	9V	Yes	No	R2330	**328YL9**
1 in @ 50 in	-26° to 2282°	±1.8%	Adjustable 0.10 to 1.00	Carrying Case, Battery	Dual	9V	Yes	No	R2330-NIST	**328YM0**
UEI Test Instruments										
1 in @ 12 in	-76° to 1022°	+/-2.0% of Reading or +/-4.0° Whichever is Greater	Adjustable 0.30, 0.70, 0.95	Battery, K-Type Thermocouple, Carrying Case	8 Dot Circle	AAA	Yes	CE	INF195C	**21CH59**

***** Captures Max./Min. ‡ Captures Max. # Captures Max./Min./Avg./Dif.***

FLUKE.

Infrared Thermometers

Bright laser provides precise targeting.

Fluke 59 Max/59 Max+

- Temperature measurement to 662°F (20AZ68) and 932°F (20AZ69)
- Distance to spot ratio: 8:1 for 20AZ68, 10:1 for 20AZ69
- 1P40 rated

Small and lightweight design for easy portability.

Fluke 59 Max
20AZ68

Fluke 64 Max
54DD62

Fluke 62 Max/62 Max+/64 Max

- High-temperature measurement to 932°F (16X949) and 1112°F (16X950 and 54DD62)
- IP54 dust- and water-resistant
- 3m drop-tested
- Distance to spot ratio: 20:1

Lightweight mini IR thermometers are designed for a natural hand fit. Large backlit LCD shows Min./Max./Avg./Dif. 16X950 employs dual-rotating lasers to identify the target.

Fluke 561

- High-temperature measurement to 1022°F
- Noncontact and contact measurement
- 3 emissivity settings

Bright laser provides precise targeting. Easy scroll-through menu. 20Z193 displays thermocouple temperature readings.

Fluke 561
1PEK8

Fluke 566/568

- High-temperature measurement to 1470°F
- Noncontact and contact measurement
- Continuous trending and data logging

Include a hard case for maximum protection.

Fluke 566/568
2DPJ1

Fluke 572-2

- High-temperature measurement to 1652°F
- Distance to spot ratio: 60:1

Rugged, ergonomic design for tough environments. Dual laser sighting for fast, accurate targeting.

Fluke 572-2
29TJ26

Operating Temp. Range	Focus Spot Size and Distance	Emissivity	Accuracy	Features*	Mfr. Model	Item No.
14° to 122°F	1" @ 8"	Adjustable 0.10 to 1.00	±2°C or ±2% of Reading Whichever is Greater	B, M	FLUKE-59 MAX	**20AZ68**
32° to 122°F	1" @ 10"	Adjustable 0.10 to 1.00	±1.5°C or ±1.5%	B, M	FLUKE-59 MAX +	**20AZ69**
	1" @ 10"	Adjustable 0.10 to 1.00	1.5°C	M, B	Fluke-62 Max	**16X949**
	1" @ 12"	Adjustable 0.10 to 1.00	1°C	M, B	Fluke-62 Max+	**16X950**
-22° to 1112°F	20" @ 1"	Adjustable 0.10 to 1.00	±1.0 %		Fluke 64 MAX	**54DD62**
32° to 122°F	1" @ 12"	Adjustable 0.30, 0.70, 0.95	±2°F or ±1.0%	C, M, B, P	Fluke-561	**1PEK8**
	1" @ 12"	Adjustable 0.30, 0.70, 0.95	±1% C	C, M, B, P	Fluke-561	**20Z193**
	1" @ 30"	Adjustable 0.10 to 1.00	±2°F or ±1%	C, M, B, P, A, D	Fluke-566	**2DPJ1**
	1" @ 30"	Adjustable 0.10 to 1.00	±2°F or ±1%	C, M, B, P, A, D	Fluke-566/NIST	**2DPJ3**
	1" @ 50"	Adjustable 0.10 to 1.00	32°F ±2°F or ±1.0%	C, M, B, P, A, S, D	Fluke-568	**2DPJ2**
	1" @ 50"	Adjustable 0.10 to 1.00	32°F ±2°F or ±1.0%	C, M, B, P, A, S, D	Fluke-568/NIST	**2DPJ4**
	1" @ 50"	Adjustable 0.10 to 1.00	±1.0°C or ±1.0%		FLK-568 EX/ETL	**29TJ20**
	1" @ 60"	Adjustable 0.10 to 1.00	±2°F or ±1.0%	C, D, CF, M	FLUKE-572-2	**29TJ26**
	1" @ 60"	Adjustable 0.10 to 1.00	±2°F or ±1.0%	C, D, CF, M	FLUKE-572-2/CWG	**29TJ27**

****A = average, B = backlight, C = case, CF = close focus, D = data storage, IS = intrinsically safe, M = min./max./diff., P = pouch, PR = probe, S = surface. Thermometers have a 2-yr. warranty.***

Infrared Thermometers

WESTWARD®

Laser sighting measures surface temperatures of objects that are out of reach such as HVAC equipment or automotive systems.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Item No.
1 in @ 10 in	-58° to 1000°	+/-7.0°From -58.0° to 32.0°, +/-2.0% of Reading or +/-4.0° Whichever is Greater from 32.0° to 1000.0°	0.95 fixed	Battery and Canvas Bag	Single Dot	9V	Yes	No	**54TZ29**
1 in @ 12 in	-58° to 1472°	+/-9.0°From -58.0° to -4.0°, +/-1.5% of Reading or +/-3.6° Whichever is Greater from -4.0° to 392.0°, +/-2.0% of Reading or +/-3.6° Whichever is Greater from 392.0° to 1000.0°, +/-3.5% of Reading or +/-9.0° Whichever is Greater from 1000.0° to 1472.0°	Adjustable 0.10 to 1.00	Battery, Canvas Bag, K-Type Thermocouple Probe	Dual	9V	Yes	No	**54TZ30**
1 in @ 12 in	-4° to 752°	+/-2.0% or +/-2.0° Whichever is Greater	Adjustable 0.10 to 1.00	Instructions, Battery	Single Dot	9V	Yes	No	**28AF72**
1 in @ 20 in	-58° to 1922°	+/-4.5°From -58.0° to 68.0°, +/-1.0% of Reading or +/-1.8° Whichever is Greater from 68.0° to 572.0°, +/-1.5% of Reading, from 572.0° to 1922.0°	Adjustable 0.10 to 1.00	Battery and Canvas Bag	Dual	9V	Yes	No	**54TZ31**
1 in @ 30 in	-58° to 2282°	+/-9.0°From -58.0 to -4.0°, +/-1.5% of Reading or +/-3.6° Whichever is Greater from -4.0° to 392.0°, +/-2.0% of Reading or +/-3.6° Whichever is Greater from 392.0° to 1000.0°, +/-3.5% of Reading or +/-9.0° Whichever is Greater from 1000.0° to 2282.0°	Adjustable 0.10 to 1.00	Battery, Canvas Bag, K-Type Thermocouple Probe	Dual	9V	Yes	No	**54TZ32**

54TZ29

28AF72

FLUKE FLUKE CONNECT

Wireless Temperature Module

Versatile K-type thermocouple thermometer wirelessly relays measurements to other Fluke Connect-enabled test tools. Designed to detect temperature differences between 3 phases in ⅓ the time of previous methods. Sends data to your laptop and goes from logging to analysis and diagnosis. Records over time to monitor circuit load changes for an hour, a shift, or a week.

Temp. Range	Accuracy	For Use With	Includes	Temp. Measuring Element	Wire Length	Mfr. Model	Item No.
-200° to 1372°C	±0.5% +0.5°C	FC 3000 Series Multimeter or PC3000 Series Adapter	Bead Probe, Information Pack, Magnet Strap	K Thermocouple	3 ft.	FLK-T3000FC	**31FN19**

4LHC7

FLUKE

Precision Infrared Calibrators

FLUKE 4180 AND 4181

- 6" target size for portable thermometers

Compensate for errors caused by thermometer emissivity settings, improving accuracy. Radiometric calibration for traceable, consistent results. With built-in procedures for Fluke and Raytek thermometers.

Temp. Range	Temp. Accuracy	5 in. dia. Uniformity	Target Emissivity	Target Size	Mfr. Model	Item No.
Precision Infrared Calibrators						
5° to 248°F (-15° to 120°C)	±0.40°F @ 0°F, ±0.55°F @ 120°F, ±0.72°F @ 5°F, ±1.0°F @ 248°F	±0.15 at -15°C ±0.25 at 120°C	0.95 in	6 in	4180-156	**4LHC6**
95° to 932°F (35° to 500°C)	±0.35°F @ 35°F, ±0.63°F @ 95°F, ±1.60°F @ 500°F, ±2.9°F @ 932°F	±0.1 at 35°C ±1.0 at 500°C	0.95 in	6 in	4181-156	**4LHC7**
Temperature Accessories for Pipes						
Type K Pipe Clamp Thermocouple Probe, -20° to 300°F, 1.375"					80PK-8	**1W503**
Type K Pipe Clamp Thermocouple Probe, -20° to 300°F, 2.5"					80PK-10	**4FFH1**
Type K Flexible Cuff Thermocouple Probe, -19.3° to 302°F					80PK-11	**1DGX9**
Kit includes 1W503 (80PK-8) and 4FFH1 (80PK-10)					80PK-18	**4FFH2**
Accessories for Fluke 4180/4181						
Rugged Carrying Case for 4LHC6 (4180) and 4LHC7 (4181)					4180-CASE	**4LHC8**
Infrared Instrument Aperture, Reduces Scatter, for 4LHC6 (4180-156) and 4LHC7 (4181-156)					4180-APRT	**4LHC9**

1CVK3

Raytek
A Fluke Company

Infrared Panel Meter and Temperature Sensors

- Fixed mount sensors
- Power source: 12-24VDC
- Response time: 350 msec
- Protection: IP65 (NEMA 4)

50Ω impedance. Sensors are 3½"L with ¾ x 16 UNF threads and include 2 mounting nuts.

Focus Spot Size and Distance	Cable Length	Temp. Range	Output	Accuracy	Mfr. Model	Item No.
Fixed 0.95						
1" @ 4"	10 ft.	32° to 662°F	J Thermocouple	±2% or ±6°F (±3°C)	RAYCI1A10L	**1CVJ1**
1" @ 4"	10 ft.	212° to 932°F	J Thermocouple	±2% or ±6°F (±3°C)	RAYCI1B10L	**1CVJ2**
1" @ 4"	10 ft.	32° to 240°F	10 mV Per Degree C	±2% or ±6°F (±3°C)	RAYCI3A10L	**1CVJ3**
1" @ 4"	10 ft.	212° to 932°F	10 mV Per Degree C	±2% or ±6°F (±3°C)	RAYCI3B10L	**1CVJ4**
Digital Panel Meter						
For Use With 1CVJ1 - 1CVJ4 and 1CVJ7 - 1CVJ9 IR Sensors				—	RAYGPCM	**1CVK3**

Find more thermal imagers for troubleshooting, diagnostic, and reporting applications on Grainger.com®.

Why Use Infrared?

Infrared thermography is the only diagnostic technology that helps you instantly visualize and verify thermal performance, detect potential electrical faults, and find hidden sources of water or air leaks. Thermal imaging cameras let you find problems and quantify them with precise noncontact temperature measurements. Use thermal images to document issues and your repairs, and to create professional reports to help you verify your work.

Professional Infrared Cameras

Spot Infrared Camera

Personal Infrared Camera

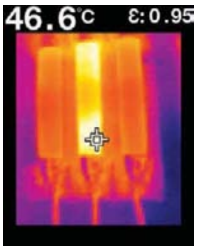
Thermal Imaging Camera for Smartphones

FLIR

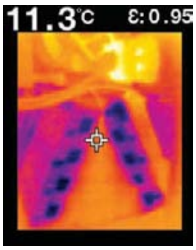
Imagers attach to your smartphone to transform it into a powerful infrared camera. Features such as spot measurement tools, adjustable temperature controls, and a range of color palettes help pinpoint surface temperature differentials so you can identify potential problems. FLIR proprietary Multi Spectral Dynamic Imaging (MSX) enhancement adds visible spectrum detail, while VividIR image processing offers a 4X boost in resolution and clarity. The FLIR OneFit adjustable connector extends up to 4mm to fit many popular protective cases.

54JJ27

Temp. Range (F)	Temp. Range (C)	Detector Resolution	Thermal Sensitivity	Temp. Accuracy (F)	Spectral Response	Mfr. Model	Item No.
Compatible Smart Phones: iOS Devices							
-4° to 752°	-20° to 400°	160 x 120 Pixels	70	+/-5°	8.0 to 14.0um	FLIR ONE PRO, iOS	**54JJ27**
-4° to 248°	-20° to 120°	80 x 60 Pixels	100	+/-5°	8.0 to 14.0um	FLIR ONE PRO LT iOS	**491G87**
Compatible Smart Phones: Android Devices with USB-C							
-4° to 752°	-20° to 400°	160 x 120 Pixels	70	+/-5°	8.0 to 12.0um	FLIR ONE PRO, Android	**54JJ28**
Compatible Smart Phones: Android Devices with Micro USB							
-4° to 752°	-20° to 400°	160 x 120 Pixels	70	+/-5°	8.0 to 14.0um	FLIR ONE PRO, Android	**54JJ29**
Compatible Smart Phones: Android Devices							
-4° to 248°	-20° to 120°	80 x 60 Pixels	100	+/-5.0°	8.0 to 14.0um	FLIR ONE PRO LT USBC	**491G88**



ELECTRICAL Warm Electrical Breaker and Normal Load



HVAC Compressor Coils and Fan Motors

Automotive Hot Break Rotors

Spot Infrared Cameras

FLIR

- Imaging enhances single-spot measurements
- IR detector resolution: 4800 pixels (60 x 80)
- 2" TFT color LCD (176 x 220 pixels)
- Laser pointer
- Adjustable emissivity
- Pistol grip style

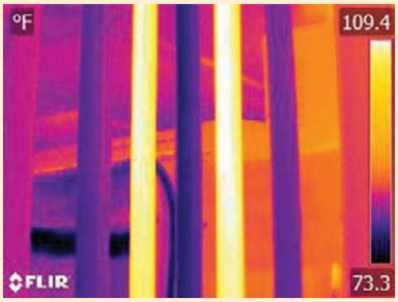
Rugged, easy-to-use point-and-shoot cameras help reduce diagnostic time and simplify repair and maintenance operations. Quickly find hidden hot and cold spots for instant troubleshooting in commercial electrical, facility maintenance, HVAC, and similar applications. A spot temperature laser indicator instantly shows what's hot and where to aim; once you find a trouble spot, record images to show customers and include in reports.

55KP99

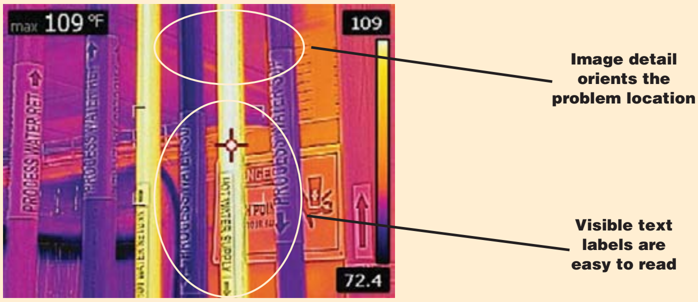
Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Field of View	Removable Memory Card	Data Logging	Calibration Certificate Included	Mfr. Model	Item No.
Infrared Cameras								
—	-13° to 716°	+/-1.0% or +/-2.0° Whichever is Greater	57.0° Horizontal x 44.0° Vertical	Not Included	No	No	TG267	**55KP99**
1 in @ 30 in	-13° to 1886°	+/-1.0% or +/-2.0° Whichever is Greater	—	—	No	No	TG297	**55KR01**
Cases and Holsters								
Belt Holster							TA14	**35KR06**

MSX Technology Makes Infrared Imaging Affordable for Everyday Use

Multispectral dynamic imaging (MSX) makes it easier to interpret an infrared image by adding visual-spectrum detail—eliminating the need to refer back to a visual image. Visible edges are detected and added to the infrared image for extraordinary infrared detail that instantly highlights and orients problem locations. Text becomes clearly visible to read labels or identifiers within the image.



Hot Water Transfer Without MSX



Hot Water Transfer Pipes With MSX

The infrared images shown are for illustrative purposes only, and may not have been taken by the camera series depicted.

E4, E5, E6, and E8 Infrared Cameras with Wi-Fi Connectivity

22UL83

- With MSX Enhancement
- IR detector resolution up to 76,800 pixels (320 x 240)
- On-board 640 x 480 digital camera
- 3" color LCD
- Easy to use; weigh only 1.27 lb.

Diagnostic instruments capture and store simultaneous infrared (IR), visual, and MSX-enhanced image data as radiometric JPEGs. Feature spot measurement mode and blending function (Fusion).

Each includes FLIR Tools reporting software, USB cable, power supply/charger with 4 plugs, hard carrying case, and swappable rechargeable battery. NIST Certified model includes calibration certificate.

Enhanced features on E6 and E8 models include level/span picture-in-picture image and area box measurement mode. E8 model also includes an extra battery and external battery charger.

Temp. Range (F)	Temp. Accuracy (F)	Thermal Sensitivity	Detector Resolution	Picture In Picture	Focus Method	Removable Memory Card	Data Logging	NIST Certified	Mfr. Model	Item No.
-4° to 482°	+/-2.0% or +/-3.6° Whichever is Greater	150 mK	80 x 60 Pixels	No	Auto	No	Yes	No	FLIR E4	**22UL83**
-4° to 482°	+/-2.0% or +/-3.6° Whichever is Greater	150 mK	80 x 60 Pixels	No	Auto	No	Yes	Yes	FLIR E4-NIST	**22UL84**
-4° to 752°	+/-3.6°	150 mK	160 x 120 Pixels	Yes	Auto	Yes	Yes	No	FLIR E5-XT WiFi	**54ZW44**
-4° to 1022°	+/-3.6°	60 mK	240 x 180 Pixels	Yes	Auto	Yes	Yes	No	FLIR E6-XT WiFi	**54ZW45**
-4° to 1022°	+/-3.6°	50 mK	320 x 240 Pixels	Yes	Auto	Yes	Yes	No	FLIR E8-XT WiFi	**54ZW46**

2PZE7

3EMK9

3EML1

Training

Thermal imaging professionals can learn to get the most out of their equipment at the Infrared Training Center (ITC), the world's largest dedicated IR applications training organization. ITC courses from beginner (Level I), to seasoned professional (Level III), lead to certification accepted by NETA (InterNational Electrical Testing Association), an ANSI standards developer.

Item	Item No.
For All Infrared Cameras Regardless of the Manufacturer	
Level I Certification Training	**2PZE7**
Level II Certification Training	**3EMK9**
Level III Certification Training	**3EML1**

Accessories for Flir IR Cameras

423N33

423N29

48GE75

460X55

Item	For Use With	Features	Mfr. Model	Item No.
Battery	FLIR T5xx Series and IR	High Capacity, Li-Ion Rechargeable	T199300ACC	**423N32**
	FLIR Ex Series Cameras	—	T199362ACC	**22UL70**
Battery Charger	FLIR T5xx Series	External Battery Charger Lets You Charge A Battery While Using The Camera So That You Never Run Out of Battery Power	T199610	**423N33**
	FLIR Ex Series	Battery Charger	T198531	**22UL71**
	FLIR K2	Power Supply with 4 Multi-Plugs US, EU, UK, AU	T199128	**48GE76**
Battery Charger, Incl. Power	—	Stand-alone 2-bay battery charger	T198125	**22DD12**
Car Charger	FLIR E series, K2, C2, C3	—	T198532	**22UL72**
Infrared Lens	FLIR Exx Series, FLIR T5xx	Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage, Interchangeable Auto Cal Lens 14°	T199588	**423N29**
	FLIR Exx Series, FLIR T5xx	Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage, Interchangeable Auto Cal Lens 24°	T199589	**423N31**
Lens	T1010, T1020, T1030SC, T1040, T1050SC	—	T199077	**460X55**
	T1010, T1020, T1030SC, T1040, T1050SC	—	T199066	**460X56**
Li-Ion Rechargeable Battery	FLIR K45, FLIR K55, FLIR K65	3.6V, 4.4Ah	T199368ACC	**48GE68**
	FLIR K Series	3.6V, 2.6Ah	T199423ACC	**48GE75**
Wide Angle Infrared Lens	FLIR Exx Series, FLIR T5xx	Can Be Shared Between Cameras Without The Need for Secondary Pairing or Factory Recalibration, Case Protects Lens During Transport and Storage, Interchangeable Auto Cal Lens 42°	T199590	**423N30**

Advanced Features for Commercial and Industrial Thermography

MPEG-4 and video streaming to Apple® and Android™ mobile devices; video recording to SD card

METERLiNK™-enabled to send data to Infrared Camera

High-resolution touch screen

E Series Wireless Professional Infrared Cameras with MSX

5 MP Digital Camera | LED Lamp | Laser Pointer

- METERLiNK enabled
- 5 MP digital camera with LED lamp
- 4" high-contrast touch-screen color LCD
- Simultaneous IR and visual image storage (MSX)
- GPS automatically tags images

Higher performing point-and-shoot imagers have 30 Hz image frequency to capture moving targets. They feature radiometric IR video streaming (MPEG-4). Professional analysis software package integrates seamlessly with the camera for easy downloads, quick reporting, and camera firmware updates in the field. Connect wirelessly to an Apple or Android mobile device to instantly send infrared images or reports via email. Each includes SD card, USB cables, universal power adapter, 2 rechargeable batteries, battery charger with power supply, and hard carrying case.

Industrial/Predictive Maintenance— Cameras offer superior resolution and range performance needed to quickly identify hot spots and discover potential points of failure in electrical distribution and mechanical systems.

Building Diagnostic/Restoration— Cameras offer superior sensitivity to detect even subtle indications of building deficiencies and moisture intrusion.

MPEG-4 and video streaming to Apple® and Android™ mobile devices; video recording to SD card

Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Field of View	Image Notation	Focus Distance	Picture In Picture	Laser Sighting	Mfr. Model	Item No.
-4 to 248°F, 572 to 1832°F	40 mK	320 × 240 px	14° Horizontal × 10° Vertical	Text, Voice	Minimum 0.15m	Yes	Yes	FLIR E76-14	**60NN03**
			24° Horizontal × 18° Vertical	Text, Voice	Minimum 0.15m	Yes	Yes	FLIR E76-24	**60NN04**
			42° Horizontal × 32° Vertical	Text, Voice	Minimum 0.15m	Yes	Yes	FLIR E76-42	**60NN05**
-4 to 248°F, 572 to 2732°F		464 × 348 px	14° Horizontal × 10° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E86-14	**60NN06**
			24° Horizontal × 18° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E86-24	**60NN07**
			42° Horizontal × 32° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E86-42	**60NN08**
		640 × 480 px	14° Horizontal × 10° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E96-14	**60NN09**
			24° Horizontal × 18° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E96-24	**60NN10**
			42° Horizontal × 32° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E96-42	**60NN11**
-4 to 248°F, 32 to 1202°F		320 × 240 px	24° Horizontal × 18° Vertical	Text, Voice	Minimum 0.15 m	Yes	Yes	FLIR E54-24	**60NN12**

Infrared Guided Measurement (IGM) Technology

IGM-enhanced tools use thermal imaging to quickly pinpoint potential problems, to help you work faster and get on to the next job.

DM166 Imaging DMM—Feature-packed multimeter is ideal for troubleshooting and diagnosing complex issues in high- and low-voltage applications.

MR160 Imaging Moisture Meter—The thermal imaging sensor helps you quickly see temperature patterns associated with possible hidden moisture, so you know the best place to put the meter probe to capture accurate readings. For details, see Grainger.com®.

MR176 Imaging Moisture Meter—As you seek hidden moisture, IGM and an integrated laser and crosshair mark the precise spot for further testing and investigation. For details, see Grainger.com®.

444M20

38YJ15

38YJ14

Item	Includes	Interface	Calibration Certificate	Data Hold	Battery Type	Mfr. Model	Item No.
Digital Multimeter	(3) Batteries, Soft Case, Test Leads	None	No	Yes	AA Alkaline	DM166	**444M20**
Thermal Imaging Moisture Meter	External Pin Probe, Quick Start Guide and User Manual/CD, Universal USB Charger with AC Socket Adapters, USB Cable	USB	No	No	Li-Ion Rechargeable	MR160	**38YJ14**
Thermal Imaging Moisture Meter	External Pin Probe, Quick Start Guide and User Manual/CD, Temperature/RH Sensor, Universal USB Charger with AC Socket Adapters, USB Cable	USB	No	No	Li-Ion Rechargeable	MR176	**38YJ15**

Scan. Order. Done.
Details on page A1.

For more information on FLIR® infrared cameras, see page 606.

423N27

40ZJ89

T Series High-Performance Infrared Cameras with MSX

FLIR

- Auto and manual focus

Articulating thermal imagers have quick-capture mode and intuitive, easy-to-use touchscreen controls. Rigorous inspection requirements are aided by high-performance features: voice, text, and drawn comments annotate images. FOV Match automatically adjusts the digital camera field of view to the IR image field. Compass adds the camera-pointing direction to every image.

Professional reporting software manages large amounts of images and data before generating reports. The imagers can stream video via Wi-Fi direct to an Apple or Android mobile device for field analysis, reporting, and collaboration via PDF or email.

Each includes 25° lens, lens cap, 2-bay charger, FLIR Tools analysis software, video and USB cables, SD memory card, Bluetooth headset (T1K Series), hand strap, neck strap, hard carrying case, power supply, and 2 rechargeable batteries.

Building Diagnostic/Restoration models have built-in RH/dew point alarm that displays areas with risk of surface condensation where mold could occur, and an insulation alarm to identify areas that don't fulfill insulation requirements.

Industrial/Predictive Maintenance models provide wide temperature ranges that meet the needs of thermographers conducting electrical and mechanical inspections.

T500 Series—Lightweight cameras feature maximum flexibility and efficiency for both builidng and industrial applications.

- IR detector resolution: up to 161,472 pixels (464 x 348)
- UltraMax super resolution using FLIR Tools software
- 5 MP digital camera with built-in LED light
- 4" touchscreen color LCD
- Built-in microphone and speaker
- Laser distance meter with area measurement
- Meterlink enabled

T1000 Series—Provide the highest resolution to measure small targets from long distances. Interchangeable and articulating lenses. Flexible ergonomics allow the lens to be pointed to the target and the display or viewfinder tilted to your eye.

- 1% accuracy within limited temperature range
- IR detector resolution: 786,432 pixels (1024 x 768)
- UltraMax resolution: 3,145,728 pixels (2048 x 1536)
- FLIR's Precision Point True HD lenses with ultrasonic motor
- FLIR's Precision Point HD optics together with 1K resolution provide unmatched temperature accuracy of small targets from a distance
- 4.3" touchscreen color LCD

Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Field of View	Focus Distance	Multiple Lens Option	STANDARD Mfr. Model	STANDARD Item No.	NIST Mfr. Model	NIST Item No.
FLIR T500 Series									
-4° to 1202°	30 mK	464 x 348 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15 m	Yes	FLIR T540-42	**485C93**	—	—
	40 mK	320 x 240 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.50 m	Yes	—	—	FLIR T530-NIST	**423N26**
	50 mK	464 x 348 Pixels	11.5° Horizontal x 8.7° Vertical	Minimum of 1.00 m	Yes	FLIR T540-14	**485C92**	—	—
-4° to 2732°	30 mK	320 x 240 Pixels	42.0° Horizontal x 32.0° Vertical	Minimum of 0.15 m	Yes	FLIR T530-42	**485C91**	—	—
	40 mK	464 x 348 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15 m	Yes	FLIR T540-24	**423N27**	FLIR T540-NIST	**423N28**
	40 mK	320 x 240 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.50 m	Yes	FLIR T530-24	**423N25**	—	—
	40 mK	640 x 480 Pixels	24.0° Horizontal x 18.0° Vertical	Minimum of 0.15 m	Yes	FLIR T560 24	**56HR70**	—	—
	50 mK	320 x 240 Pixels	11.5° Horizontal x 8.7° Vertical	Minimum of 1.00 m	Yes	FLIR T530-14	**485C90**	—	—
FLIR T1000 Series									
-40° to 1202°	25 mK	1024 x 768 Pixels	28.0° Horizontal x 21.0° Vertical	Minimum of 0.40 m	Yes	FLIR T1010-28	**460X54**	—	—
-40° to 3632°	20 mK	1024 x 768 Pixels	28.0° Horizontal x 21.0° Vertical	Minimum of 0.40 m	Yes	FLIR T1020-28	**40ZJ89**	FLIR T1020-NIST	**40ZJ90**

54ZY92

T840 Infrared Cameras with Viewfinder

FLIR

- Detector resolution: 640 x 480 pixels
- Field of view: 12.5° horizontal x 12.5° vertical
- Auto and manual focus
- Include (2) batteries, (3) USB cables, power supplies, SD card, hard case and lanyard

Designed to help electric utility and other thermography professionals survey equipment both indoors or outdoors and seek out signs of failure. An integrated eyepiece viewfinder and a bright 4-inch color LCD display make it easy to conduct inspections outside in bright, challenging light conditions. 180° rotating lens platform and ergonomic design helps diagnose failing components in hard-to-reach areas.

Temp. Range (F)	Thermal Sensitivity	Includes	Focus Distance	NIST Certified	Mfr. Model	Item No.
-10° to 1000°	30 mK	14° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 1.00 m	No	FLIR T840-14	**54ZY92**
-10° to 1000°	30 mK	Battery Charger, Front Lens Cap, 24° Lens, 24° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.50 m	No	FLIR T840-24	**54ZY93**
-10° to 1000°	30 mK	Battery Charger, (1) Front Lens Cap, Tools	Minimum of 0.50 m	Yes	FLIR T840-24-NIST	**54ZY94**
-10° to 1000°	30 mK	42° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.15 m	No	FLIR T840-42	**54ZY95**
-10° to 1000°	30 mK	Battery Charger, Front Lens Cap, 14°/24° Lens, 14°/24° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.50 m	No	FLIR T840-24-14	**54ZY96**
-10° to 1000°	30 mK	24°/42° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.50 m	No	FLIR T840-24-42	**54ZY97**
-10° to 1000°	30 mK	14°/24°/42° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.50 m	No	FLIR T840-24-14-42	**54ZY98**
-10° to 1000°	30 mK	14°/42° Lens, Battery Charger, (1) Front Lens Cap	Minimum of 0.15 m	No	FLIR T840-42-14	**54ZY99**

FLIR

K Series Thermal Imaging Cameras

- Dropproof to 6.5 ft./2m
- Easy-to-use in a firefighter's gloved hand

Expanded lineup of thermal imaging cameras (TICs) features Flexible Scene Enhancement (FSX) to give you sharp, detailed views of firefighting scenes, from inside, outside, and above the fire—even through thick smoke.

FLIR K1, K2, K33, and K53 Powerful TICs—Standard-issue TICs designed for every firehouse. Provide each crew member with an affordable camera so everyone has the essentials for working faster and safer.

FLIR K45, K55, and K65 High-Performance TICs—High-performance cameras with FSX enhancement offer detailed, rich imagery on a large, bright 4" LCD. Navigate the smokiest environments and instantly distinguish people, room features, and make critical decisions in the field.

48GE63

48GE64

Temp. Range (F)	Temp. Range (C) - Infrared	Display Resolution	Thermal Sensitivity	Frame Rate	Special Features	Mfr. Model	Item No.
Powerful							
Designed to Meet NFPA 1801:2013, Power Supply Meets CE/EN/UL/CSA/PSE 60950-1							
14°F to 284°F, 14°F to 752°F	–10°C to 140°C, –10°C to 400°C	320 x 240 Pixels	100 mK	9 Hz	Pocket Portable, Attaches Easily to Belt	K1	**55CH82**
-4° to 932°	-20° to 500°	320 x 240 Pixels	100 mK	9 Hz	MSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K2	**48GE63**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	40 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K33	**485C94**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof	K53	**485C95**
High Performance							
Certified to NFPA 1801:2013, Meets Class I Division 2 Gas Groups C and D T4, Power Supply meets CE/EN/UL/CSA/PSE 60950-1							
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, In Camera Up to 5 Min Video Storage, Manually Store 200 Images, IP67 Waterproof	K65	**48GE66**
Designed to Meet NFPA 1801:2013, Power Supply Meets CE/EN/UL/CSA/PSE 60950-1							
-4° to 1202°	-20° to 650°	320 x 240 Pixels	40 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, IP67 Waterproof, Manually Store 200 Images	K45	**48GE64**
-4° to 1202°	-20° to 650°	320 x 240 Pixels	30 mK	60 Hz	FSX Enhancement, Easy-to-Use Even with Gloves On, In Camera Up to 5 Min Video Storage, Manually Store 200 Images, IP67 Waterproof	K55	**48GE65**

IR windows support safe infrared image capture and NFPA compliance with FLIR or competitive cameras

Visible light is clearly transmitted to capture visual as well as infrared images (LED lamps recommended)

IR windows can be used indoors or outdoors and support Laser LocatIR targeting

Infrared Inspection Windows

FLIR

- Broadband crystal is compatible with all infrared cameras and UV, visual, and fusion inspections
- Can be mounted on steel and Lexan panels
- Indoor and outdoor use

Constructed to make thermographic inspection of energized electrical systems as fast and safe as possible, without added expense. Arc-resistant to protect against arc flash incidents. Visible light is transmitted clearly for image capture, although LED lamps are recommended for optimal results. Laser LocatIR targeting is supported for precise data collection.

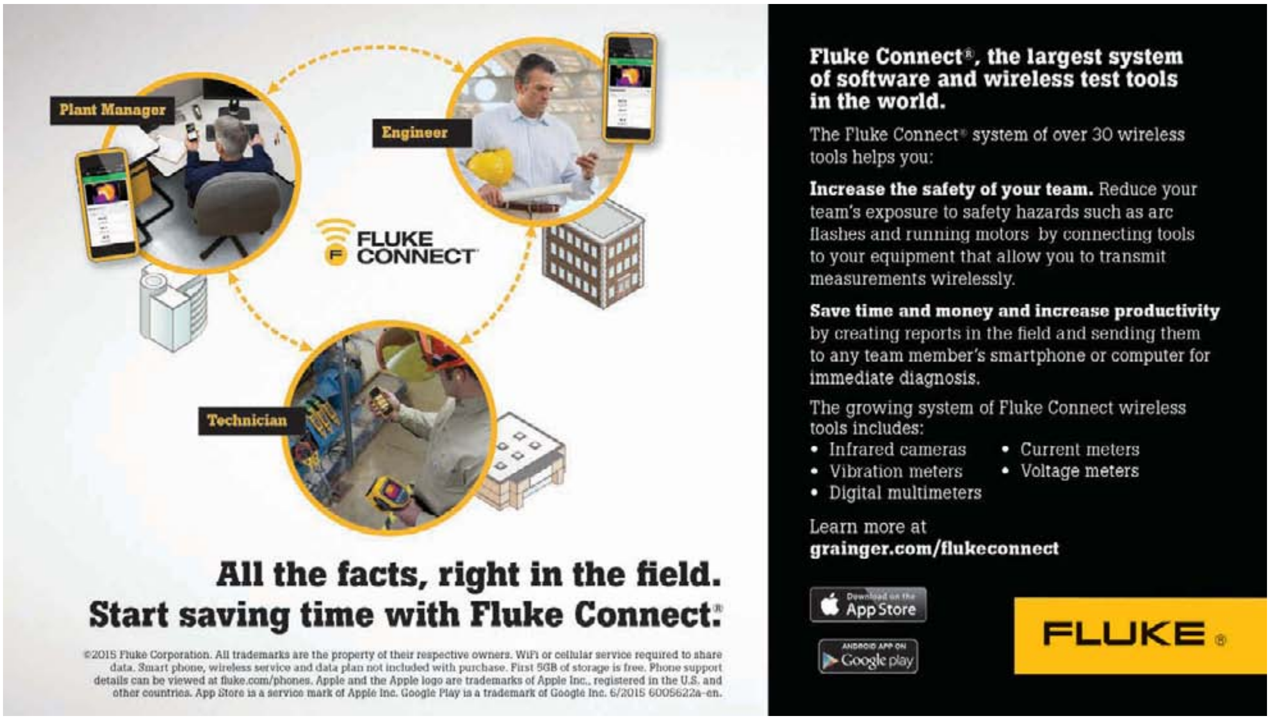
Each is complete with IR window in an aluminum or stainless steel frame with a hinged cover and calcium fluoride lens. PIRma-lock installation system secures the window assembly safely in place. Permanent identification can be marked on the integrated label area for reference. Limited lifetime warranty against manufacturer defects.

11Y559

493N53

Crystal Insert Size	Window Thickness	Aluminum Mfr. Model	Aluminum Item No.	Stainless Steel Mfr. Model	Stainless Steel Item No.
Round Infrared Window					
50mm dia	2 mm	IRW-2C	**11Y558**	IRW-2S	**30ZY73**
75mm dia	2 mm	IRW-3C	**11Y559**	IRW-3S	**30ZY74**
95mm dia	4 mm	IRW-4C	**11Y560**	IRW-4S	**30ZY75**
Rectangle Infrared Window					
206mm H x 305mm W	3 mm	IRW-12PC	**493N50**	IRW-12PS	**493N53**
218mm H x 160mm W	3 mm	IRW-6PC	**493N49**	IRW-6PS	**493N52**
218mm H x 610mm W	3 mm	IRW-24PC	**493N51**	IRW-24PS	**493N54**

Fluke Connect® the largest system of software and wireless test tools in the world



Twice the Resolution with Rugged Versatility

Get **improved resolution** that delivers the right image quality you need to make the proper diagnosis with up to 2.5 times more pixels and 70% better D:S (compared to the Fluke Ti125 Infrared Camera).

IR-Fusion Technology
The instant blending of visible light and infrared, along with Picture-in-Picture mode, easily reveal both problem and location.

Reduce the amount of time it takes to get an in-focus image with manual or point-and-shoot fixed focus options.

IR-Fusion vs. Picture-In-Picture

IR-Fusion technology is the precise alignment of the infrared and digital images taken by a Fluke IR camera to quickly and accurately troubleshoot a scene by fusing the infrared and digital images. This powerful functionality is the basis for Fluke's AutoBlend mode, which allows adjustable transparency of the infrared image, thereby facilitating easy documentation and communication of the problem spot.

FLUKE.

Fixed Location Infrared Cameras

780AY9

Cameras are designed to be permanently installed and have an output designed to be viewed on a computer or monitor. Instruments use a single detector that, by itself, is limited to measuring the temperature at only one point.

Temp. Range (F)	Detector Resolution	Focus Distance	Mfr. Model	Item No.
14° to 2192°	320 x 240 px	Minimum of 15.00cm	RSE300/C 60 Hz	**780AY9**
14° to 2192°	640 x 480 px	Minimum of 15.00cm	RSE600/C 60 Hz	**780AZ0**

56GY09

55NL87

FLUKE.

Performance Series Infrared Cameras

Utilize IR-Fusion technology for quick, accurate troubleshooting. The 5MP visual camera delivers up to 2.5 times more infrared pixels and a 3.5" LCD. Precise focus as close as 15 cm (6") with manual focus version. Fluke renowned diagnostic tools such as Fluke Connect and SmartView software included for data sharing, storage, in-depth analysis, and reporting.

Temp. Range (F)	IR Detector Resolution	Focus Distance	Focus Method	Picture In Picture	Removable Memory Card	Mfr. Model	Item No.
-4° to 302°	120 x 90 Pixels	Minimum of 0.50 m	Manual	No	Yes	FLK-TIS20+ 9HZ	**56GY09**
-4° to 752°	—	—	—	—	—	FLK-TIS60+ 30HZ	**55NL87**
-4° to 842°	220 x 165 Pixels	Minimum of 0.15 m	Manual	Yes	4GB MicroSD	FLK-TIS55+ 27HZ	**60UN16**
-4° to 1022°	320 x 240 Pixels	Minimum of 0.15 m	Manual	Yes	4GB MicroSD	FLK-TIS75+ 27HZ	**60UN17**

FLUKE. FLUKE CONNECT

Professional Series Infrared Cameras

FlukeTi480 PRO 453C43

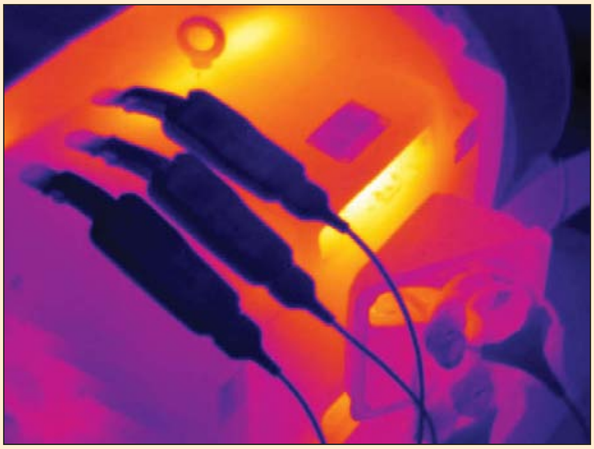
- IR detector resolution up to 307,200 pixels (640 x 480)
- 3.5" touchscreen color LCD
- IR-Fusion technology with AutoBlend

Designed for professional thermographers and maintenance managers, with LaserSharp autofocus, which uses a built-in laser distance meter to pinpoint the target and precisely focus the image. 5 MP digital camera with autofocus

Temp. Range (F)	Infrared Sensitivity	IR Detector Resolution	Field of View	IR-Fusion®	Focus Method	Image Notation	File Formats	Mfr. Model	Item No.
-14° to 1832°	50 mK	640 x 480 Pixels	24.0° Horizontal x 17.0° Vertical	Yes	Auto and Manual	Voice	BMP, GIF, JPEG, PNG, TIFF	FLK-Ti480 PRO 60HZ	**453C43**

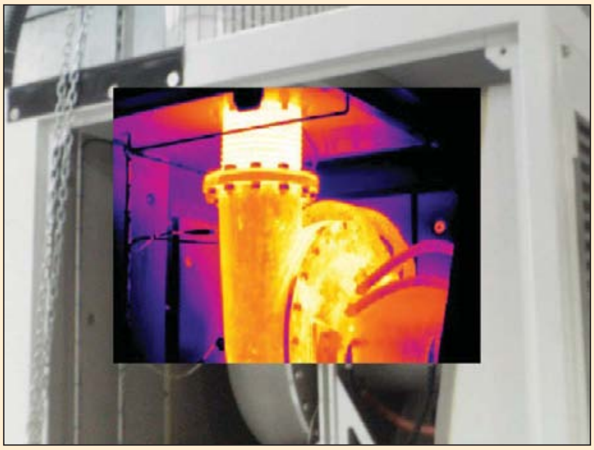
Description	Features	Mfr. Model	Item No.
Accessories			
Telephoto Lens	12°x 9°, Minimum Focus Distance of 6 in	FLK-LENS/TELE2	**30ZY63**
Wide Angle Infrared Lens	46°x 34°, Minimum Focus Distance of 6 in	FLK-LENS/WIDE2	**30ZY64**
Sun Visor	Enhances Screen Visibility	FLK-TI-VISOR3	**30ZY65**
Tripod Mount	Accessible with Standard Tripod	FLK-TI-TRIPOD3	**30ZY66**

Enhanced Image Quality and Temperature Measurement Accuracy



Enhanced image quality and temperature measurement accuracy turn your 320 x 240 images into 640 x 480 images—4x the resolution and pixels— with **SuperResolution.**

Easily navigate over, under, and around objects with the only full **180° articulating lens** and see the image before you capture it.



Quick and easy in-field analysis with **IR-Fusion® technology** and advanced touchscreen functions.

FLUKE

FLK-TIX580
406D31

FLK-PTI120
780AY8

Expert Series Infrared Cameras

- IR detector resolution up to 307,200 pixels (640 x 480)
- 5.7" touchscreen color LCD

Cameras have a 240° rotating screen that minimizes glare and makes it easy to capture images when equipment is in awkward or hard-to-reach areas. Compatible with Fluke Connect, so you can connect your cameras to the largest network of wireless test and measurement tools. 406D31 has on-camera SuperResolution feature that allows you to create a 1280 x 960 resolution image from your original 640 x 480 image, with 4x the pixel data.

Temp. Range (F)	Infrared Sensitivity	Detector Resolution	Focus Distance	Focus Method	Picture In Picture	Removable Memory Card	Includes	Mfr. Model	Item No.
-4° to 1472°	50 mK	640 x 480 Pixels	Minimum of 0.15 m	Auto	Yes	Micro SD	AC Power Supply, Battery Pack Charger, Universal AC Adapter, (2) Lithium-Ion Smart Battery Packs, USB Cable, HDMI Video Cable, Hard Carrying Case, Neck and Hand Strap, Bluetooth Headset, Fluke Connect SmartView Desktop Software Download	FLK-TIX580	**406D31**
-4° to 752°	60 mK	120 x 90	Minimum 29 inches (50 cm)	Fixed	No	No	Adjustable Lanyard, Fluke Connect Software and User Manual Available by Free Download, Infrared Camera, Soft Transport Bag, USB Cable	FLK-PTI120 9HZ 400C	**780AY8**
Accessories									
Neck Strap								FLUKE-TIX5XX-NECK	**38RX07**
Smart Battery Pack								FLUKE-TIX5XX-SBP4	**38RX08**
Hand Strap								FLUKE-TIX5XX HAND	**38RX09**
Bluetooth Head Set								FLK-BLUETOOTH	**38RX10**

FLUKE

ClirVu Infrared Inspection Windows

Windows install quickly to provide fast, safe access for electrical infrared inspections. Full personal protective equipment may not be required, making inspections more comfortable to conduct. Can provide free access with a convenient hand-turn latch or security-keyed controlled access.

	Fluke-CV400	Fluke-CV401	Fluke-CV300	Fluke-CV301	Fluke-CV200
Size	100mm (4")		75mm (3")		50mm (2")
General					
Voltage Range	Any				
NEMA Environemental Type	Type 4/12 (Indoor/Outdoor)				
AutoGround™	Yes				
ClirVu® Optic	Yes				
Operating Temperature	-40°C to +232°C (-40°F to +450°F) and +260°C (500°F) Intermittent				
Body Material	EZAC & ZA-27 High Strength Zinc/Aluminum Alloy				
Ratings and Testing					
ARC-Tested (IEEE C.37.20.7)	63 kA for 30 Cycles @60Hz at KEMA				
UL 50V Component Recognition	Yes				
UL 50/NEMA Environmental Rating	NEMA Type 4/12				
UL 1558	Yes				
CSA C22.2 No.	Yes				
CSA Type Rating	Type 4				
IP Rating	IP67 at TUV				
Lloyds Register	Up to 11kV Marine Switchgear, Indoor or Outdoor (offshore only)				
Vibration Rating	IEC60068-2-6 at TUV				
Humidity Rating	IEC60068-2-3 at TUV				
Install					
Actual Mounting Hole Dia. Required	115.42 mm (4.544")		89.99 mm (3.539")		61.37 mm (2.416")
Greenlee Punch Kit=Punch/Die	742BB=2984AV/2983AV		739BB=1431AV/1432AV		76BB=441AV/442AV
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn
Optics					
Optic Insert Dia.	100mm (3.74")		75mm (2.96")		50mm (1.97")

Description,	Crystal Insert Size	Viewing Aperture Size	Window Thickness	Mfr. Model	Item No.
4" Infrared Window, Hand Turn Door Latch	100mm dia	89mm dia	4 mm	Fluke-CV400	**23NT25**
4" Infrared Window, Security Key Door Latch	100mm dia	89mm dia	4 mm	Fluke-CV401	**23NT26**
3" Infrared Window, Hand Turn Door Latch	75mm dia	68mm dia	2 mm	Fluke-CV300	**23NT23**
3" Infrared Window, Security Key Door Latch	75mm dia	68mm dia	2 mm	Fluke-CV301	**23NT24**
2" Infrared Window, Hand Turn Door Latch	50mm dia	45mm dia	2 mm	Fluke-CV200	**23NT21**
3" Round Infrared Window, Access Key and Installation Instructions on a CD Latch	75mm dia	68mm dia	2 mm	Fluke-075-CLKT	**4LHD1**
4" Round Infrared Window, Access Key and Installation Instructions on a CD Latch	100mm dia	89mm dia	4 mm	Fluke-100-CLKT	**4LHD2**

23NT24
Fluke CV301

23NT21
Fluke CV200

45CT87
Telephoto Lens

45CT88
Infrared Lens

4JNW6
Smart Battery Pack

13T385
Sun Visor

13T384
Tripod Holder

FLUKE

Infrared Camera Accessories

Accessories are matched to Fluke P3 Series and Ti100 Series infrared cameras.

Description	For Use With	Mfr. Model	Item No.
4X Telephoto Lens	Fluke Ti450, Fluke Ti450 SF6, Fluke TiX500	FLK-LENS/4XTELE2	**45CT87**
Infrared Lens	Fluke Ti300, Fluke Ti400, Fluke Ti450 SF6, Fluke Ti480, Fluke TiX500, Fluke TiX520, Fluke TiX560, Fluke TiX580	FLK-TI EYEPIECE	**444M04**
Macro Lens	Fluke Ti450 SF6, Fluke TiX500	FLK-LENS/25MAC2	**45CT88**
Smart Battery Pack	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480, Fluke TiR105, Fluke TiR110, Fluke TiR125, Fluke TiS10, Fluke TiS20, Fluke TiS40, Fluke TiS45, Fluke TiS50, Fluke TiS55, Fluke TiS60, Fluke TiS65, Fluke TiS75	Fluke-TI-SBP3	**4JNW6**
Sun Visor	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480	FLK-TI-VISOR2	**13T385**
Tripod Holder	Fluke Ti300, Fluke Ti400, Fluke Ti450, Fluke Ti450 SF6, Fluke Ti480	FLK-TI-TRIPOD2	**13T384**

Dual-Laser Infrared Thermometer

Offers a wide measurement range, a tight distance-to-spot ratio, dual targeting lasers, and several calculation modes to facilitate different temperature measurement applications. In addition to measuring temperature using IR emission, it can also measure temperature using a standard K-type probe.

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Battery Type	Data Hold	Calibration Certificate	Mfr. Model	Item No.
1 in @ 20 in	-40° to 1202°	+/-1.5% of Reading or +/-1.5° Whichever is Greater	Adjustable 0.10 to 1.00	Custom Pouch, K-Type Probe, 9V Battery	Dual	9V	Yes	No	IR10	**616J64**

52XP36

22F422

Thermal Imager and Infrared Inspection Windows

Panel Mounted Thermal Imager—Imager incorporates dual vision; thermal and visual cameras which capture fully radiometric data every second. Log into the imager remotely and inspect your electrical assets from your office using its on board web server or using the dedicated MONITIR software.

Infrared Inspection Windows—Intelligent inspection windows provide protected access to help comply with NFPA 70E safety standards. Embedded RFID tag and barcode communicate with CorDEX CONNECT-enabled devices and smartphones to automatically correct for transmission loss. Unlimited voltage range. NEMA Type 3, 12, 4 and IP65 for indoor and outdoor use.

- Broadband crystal operates with any visual, IR, or ultraviolet camera
- Spring-loaded cover; ¼ turn to open
- Supplied ready-to-install; no gasket fitting required

Temp. Range (F)	Thermal Sensitivity	Display Resolution	Field of View	Focus Distance	Picture In Picture	Temp. Accuracy (F)	Mfr. Model	Item No.
Fixed Location Infrared Cameras								
14° to 248°	50	640 x 480 Pixels	50.0° Horizontal x 39.0° Vertical	Minimum of 0.40m	Yes	+/-2.0% or +/-2.0°	MN4000	**52XP36**

Crystal Insert Size	Viewing Aperture Area	Mfr. Model	Item No.
Cordex Infrared Windows			
50mm dia	1590 sq mm	IW2000	**44ZN79**
80mm dia	4186 sq mm	IW3000	**22F422**
100mm dia	6794 sq mm	IW4000	**22F423**

49ZA24

636W20

636W21

Handheld Thermal Cameras

State-of-the-art infrared cameras help find potential problems fast, and document findings for follow-up and reporting. High-resolution thermal imaging is ideal for electrical and industrial maintenance, process monitoring, tank levels, steam traps, utility inspections, and building maintenance. Each camera features a large color display and long-lasting rechargeable battery.

Description	Temp. Range (F)	Thermal Sensitivity	Detector Resolution	Emissivity	Field of View	Focus Method	Includes	Mfr. Model	Item No.
Reveal Series									
Seek Thermal Reveal Pro Series	-40° to 824°	70 mK	320 x 256 Pixels	Adjustable 0.30 to 1.00	24.0° Horizontal x 32.0° Vertical	Fixed	SD Memory Card, USB Cable	RQ-AAAX	**49ZA24**
Shot Series									
Seek Thermal Shot	-40° to 626°	70 mK	206 x 156 Pixels	—	30.0° Horizontal x 27.0° Vertical	Auto	Lanyard, USB Cable	SW-AAA	**636W20**
Seek Thermal Shot Pro	-40° to 626°	70 mK	320 x 240 Pixels	—	57.0° Horizontal x 42.0° Vertical	Auto	Lanyard, USB Cable	SQ-AAA	**636W21**

49ZA22

49ZA20

IR Smart Phone Adapters

Powerful camera adapters transform iPhone or Android smartphones or tablets into professional thermal imaging tools. Use the low power of smartphones to take thermal photos and video, share findings, and send for documentation. Lightweight and easy-to-use, simply connect and detect energy loss caused by air leaks, missing or damaged insulation, inefficient HVAC systems, electrical faults, and much more.

Temp. Range (F)	Temp. Range (C) - Infrared	Thermal Sensitivity	Frame Rate	Detector Resolution	Field of View	Focus Distance	Mfr. Model	Item No.
Android Devices								
-40° to 626°	-40° to 330°	70	30 Hz	320 x 256 Pixels	24.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	UQ-AAAX	**49ZA22**
-40° to 626°	-40° to 330°	70	20 Hz	320 x 240 Pixels	32.0° Horizontal x 23.0° Vertical	Minimum of 0.05m	CQ-AAAX	**55EP65**
-40° to 626°	-40° to 330°	100	9 Hz	206 x 156 Pixels	20.0° Horizontal x 20.0° Vertical	Minimum of 0.25m	CT-AAA	**55EP66**
-40° to 626°	-40° to 330°	100	9 Hz	206 x 156 Pixels	35.7° Horizontal x 26.8° Vertical	Minimum of 0.10m	CW-AAA	**55EP67**
iOS Devices								
-40° to 626°	-40° to 330°	70	30 Hz	320 x 256 Pixels	24.0° Horizontal x 32.0° Vertical	Minimum of 0.15m	LQ-AAAX	**49ZA20**

EXTECH INSTRUMENTS FLIR

High-Definition Videoscope Inspection Cameras with Advanced Capabilities

HDV600 Series video borescopes have a large, high-definition color TFT LCD monitor that delivers 640 x 480-pixel images and video. Meter is waterproof (IP67) and camera head with cable is waterproof (IP57). 1 GB SD memory card stores up to 14,600 images or up to 4 hr. of video with voice annotation. AV output for viewing images and video on a monitor. USB port allows data transfer to PC.

Select preconfigured system with camera and cable, or choose monitor-only 6RAX5 and pair with optional cameras (sold separately) for custom configuration. Each HDV600 Series unit includes AC adapter, USB and AV cables, case, and rechargeable lithium polymer battery.

6DWX0 and 6DWU9—Articulating camera head adjusts up to 240° with easy knob control. Allows viewing in obstructed areas where standard camera cannot access. 6DWU9 camera control has built-in wireless to transmit inspection results up to 32 ft.

HD Articulating VideoScope Kit—Articulating 5.5mm camera tip facilitates viewing in obstructed areas where standard camera tips cannot access. Images and videos are viewed on the large high resolution color display and can be stored on the SD memory card (included).

Cameras with Cable and Camera Heads—5.5mm and 5.8mm borescope Cameras have flexible cables and QVGA resolution. 25mm borescope Camera Heads feature heavy-duty fiberglass cable for long distances; VGA resolution.

6DWX0

35KR04

404K08

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Recording	Probe Lighting System	Brand	Mfr. Model	Item No.
Wireless High Definition Video Borescope								
0.59 to 2.4 in	—	—	5.7 in	Video	LED Lamp	Extech	HDV600	**6RAX5**
Video Borescope								
0.59 in to 2.36 in	39 in	0.22 in	5.7 in	Image, Video	(4) Adjustable LED Lamps	Extech	HDV610	**6DWU7**
0.59 to 2.4 in	39 in	0.23 in	5.7 in	Image, Video	(4) Adjustable LED Lamps	Extech	HDV620	**6DWU8**
0.59 in to 2.36 in	39 in	0.23 in	5.7 in	Image, Video	LED Lamp	FLIR	VS70-2	**35KP98**
Articulating Video Borescope								
0.59 in to 2.36 in	39 in	0.24 in	5.7 in	Image, Video	(4) Adjustable LED Lamps	Extech	HDV640	**6DWX0**
Wireless Video Borescope								
0.59 in to 2.36 in	39 in	0.24 in	5.7 in	Image, Video	(4) Adjustable LED Lamps	Extech	HDV640W	**6DWU9**
Articulating Wireless Video Borescope								
2.36 in to Infinity	39 in	0.31 in and 0.24 in	5.7 in	Image, Video	LED Lamp	FLIR	VS70-KIT-W	**35KR04**
HD Articulating Videoscope Kit								
0.8 to 2.36 in	39 in	0.24 in	3.5 in	Audio, Image, Video	(4) Adjustable Bright LED Lamps	Extech	HDV540	**404K08**
Articulating Videoscope Kit								
2.36 in to Infinity	39 in	0.31 in and 0.24 in	5.7 in	Image, Video	LED Lamp	FLIR	VS70-KIT	**35KR03**

Description	Brand	Mfr. Model	Item No.
For Use With HDV600 Series Borescopes			
Camera and Cable			
Borescope Camera 5.5mm, 10m Cable, Observation Depth 2.36 in to Infinity (60 mm to infinity)	Extech	HDV-5CAM-10F	**6MVL3**
Borescope Camera 5.8mm, 1m Cable, Observation Depth 0.59 to 2.36 in (15 to 60 mm)	Extech	HDV-5CAM-1RM	**6MVL4**
Camera Head			
6mm 1m Semi-Rigid Cable, 4 LED Lamps, Articulating Head	Extech	HDV-TX1	**6MVN2**
6mm 2m Semi-Rigid Cable, 4 LED Lamps, Articulating Head	Extech	HDV-TX2	**6MVN3**
Wireless USB Transmitter			
Remotely View Images/ Videos Up To 30m From Source	Extech	HDV-WTX	**6MVL9**

Videoscope Inspection Cameras with Advanced Capabilities

GENERAL®

Video borescopes employ water-, oil-, and dustproof IP67 probes for inspection and maintenance in a broad range of industrial, government, military, security, infrastructure, construction, aircraft, automotive, diesel, HVAC/R, oil/power/petroleum, and metalworking applications.

Color 3.5" LCD delivers still images and video. Footage can be viewed live, or recorded in still or video format and output to a monitor or PC. Record video up to 3 hr.

LED lamps in viewing tip adjust for precise illumination. Multilanguage onscreen menu adapts to location. 1.5X zoom. Powered by rechargeable Li-ion battery.

Each includes main monitor console, probe, SD card, tip accessories, USB and AV cables, carrying case, and rechargeable battery.

8D202 comes with a flexible, obedient probe that holds its configured shape.

6FAW2 is equipped with an articulating probe whose tip can bend in a ±150º sweep with thumbwheel control: Great for precision inspection in confined spaces.

Accessories—Specialty probes make a video borescope more versatile. Soft metal probes slide through pipes more easily. VGA probes with antireflection and light boost are great for inspecting very dark areas or equipment with shiny surfaces.

6FAW2

8D202

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Recording	Probe Lighting System	Mfr. Model	Item No.
Wireless Video Borescope							
0.25 in to 12 in	39 in	0.22 in	3.5 in	Image, Video	(6) White LEDs	DCS1600HP	**8D202**
Articulating Wireless Video Borescope							
0.25 in to 12 in	39 in	0.23 in	3.5 in	Image, Video	(5) White LEDs	DCS16HPART	**6FAW2**

Description	Mfr. Model	Item No.
For Use With DCS1700, DCS1800, Mfr. Model No. DCS1600		
VGA Resolution Soft Metal Probe Lit by 6 LEDs with Anti-Reflection, Light Boost and 90° Image Rotation, 5.5mm Dia, 3.3 ft. long	P16181HP	**34E658**
For Use With DCS1700, Mfr. Model No. DCS1600		
VGA Resolution Articulating Soft Metal Probe Lit by 5 LEDs with ±150° Sweep, Anti-Reflection, Light Boost and 90° Image Rotation, 5.5mm Dia, 3.3 ft. long	P16HPART	**34E657**

Inspection Cameras

Extech 55RV89—Lightweight video borescope features detachable color TFT LCD for clear imaging. IP67 waterproof. Includes LED lamps. Complete with 2½-ft. flexible gooseneck cable, extension tools, batteries, and a soft carrying case.

Extech 5CVT1—Detachable, wireless color 3.5" LCD monitor. Borescope can also transmit date-stamped video and still images up to 32 ft. to any monitor with a video jack. 2 LED lamps. IP67 waterproof. Includes flexible cable, extension tools, micro SD card with adapter, USB and video interconnect cables, AC adapter, and case.

Milwaukee 40KJ35 and 40KJ38—Recordable inspection cameras can send high-quality 640 x 480 images and video to the 3.5" wireless LCD monitor from up to 30 ft. away, and save them on included 8GB SD card for later review. Use the 3-ft. cable option for complete control of the camera head and faster positioning. 40KJ38 has a 270° pivoting camera head for better visiblity.

40KJ35

55RV89

5CVT1

Observation Depth	Shaft Length	Shaft Dia.	Monitor Size	Camera Size	Power Source	Brand	Item No.
Inspection Cameras							
1.2 in to 2.4 in	30 in	0.32 in	4.3 in	8.0 mm	(4) AA Batteries	Extech	**55RV89**
5.9 to 9.8 in	36 in	0.35 in	3.5 in	9.0 mm	(4) AA Batteries	Extech	**5CVT1**
3 ft	36 in	0.49 in	3.5 in	12.0 mm	Rechargeable Li-Ion Battery	Milwaukee	**40KJ35**
3 ft	36 in	0.49 in	3.5 in	12.0 mm	Rechargeable Li-Ion Battery	Milwaukee	**40KJ38**
Accessories							
Stream Live Video to PC or Over VOIP (Voice Over Internet Protocol) Connection						Extech	**6DWX1**
9mm Waterproof Camera Head						Extech	**5WYV1**
Replacement Camera Cable, 3 ft., For Use With 40KJ35 and 40KJ38						Milwaukee	**40KJ36**
Replacement Camera Cable, For Use With 40KJ35 and 40KJ38						Milwaukee	**40KJ39**

Carbon Monoxide Meters

AMPROBE

4FKR1—Displays CO level; adjustable alarm for alerts at 25 to 200 ppm.

BACHARACH

31LA88 and Kit 31LA89—Monoxor Plus continuous sampling monitor measures ambient or flue gas CO between 0 and 2000 ppm in 1 ppm increments. Trend graph shows real-time readings.

EXTECH INSTRUMENTS

4FB71—Has stabilized electromechanical gas-specific sensor.

404K03—Displays CO level; adjustable alarm for alerts at 25 to 200 ppm.

UEI TEST INSTRUMENTS

8EWU2—3-color warning light and audible alarm. Backlit LCD, Max. Hold, and low-battery indicator.

4FKR1

31LA88

404K03

8EWU2

Item	Carbon Monoxide Measurement Range (ppm)	Temp. Range	Data Hold	Auto Power Off	Low Battery Indicator	Display	Includes	Power Source	Mfr. Model	Item No.
Amprobe										
Carbon Monoxide Meter	0 to 999	—	—	Yes	Yes	Backlit LCD	Batteries, Carrying Case and Instructions	(3) AAA Batteries	CM100	**4FKR1**
Bacharach										
Carbon Monoxide Analyzer	0 to 2000	-4° to 1202°F	Yes	Yes	Yes	Monochrome Backlit LCD	(4) AA Batteries and Hard-Carry Case, 6 ft. Probe/Hose, Water Trap	(4) AA Batteries	0019-8117	**31LA88**
Carbon Monoxide Analyzer	0 to 2000	-4° to 1202°F	Yes	Yes	Yes	Monochrome Backlit LCD	(8) AA Batteries and Hard-Carry Case, 6 ft. Probe/Hose, PC Software, USB Cable, Water Trap, Wireless IrDA Magnetic Printer	(4) AA Batteries	0019-8118	**31LA89**
Extech										
Carbon Monoxide Detector	0 to 1000	—	Yes	Yes	Yes	Back Lighted LCD	Battery, Carbon Monoxide Sensor, Carrying Case and Instructions, Holster	9V Battery	CO10	**4FB71**
Portable Carbon Monoxide Meter	0 to 999	—	No	Yes	Yes	Dual LCD	(3) AAA Batteries, Carrying Pouch, Wrist Strap	(3) AAA Batteries	CO15	**404K03**
UEI Test Instruments										
Carbon Monoxide Detector	0 to 999	—	No	No	No	Backlit LCD	Holster with Belt Clip, Battery	—	CO71A	**8EWU2**
Carbon Monoxide Detector	0 to 999	—	No	No	No	Backlit LCD	(3) AAA Battery	(3) AAA Batteries	COA2-N	**55UX46**
Carbon Monoxide Detector	0 to 999	32° to 104°F	No	No	Yes	Backlit LCD	9V Battery, Holster	9V Battery	CO71A-N	**49CK94**

TSI | ALNOR

Air Volume Balancing Meters and Accessories

Capture hoods channel air flow volume from supply or exhaust diffusers and grilles for fast, repeatable measurements.

CFM Range	Display	Includes	H	Base Dia.	Battery Life	Mfr. Model	Item No.
Air Flow Capture Hood							
10 to 500	Digital	Base, 2 x 2 Hood, Handles, and Case	34 ½ in	13.3 in	10 Hours	6200D	**4KF78**
25 to 2500	Digital Multi Line LCD	Base, Meter, 2 x 2 Hood, Case, Pitot Probe, Battery Charger, 2 Static Pressure Probes, Tubing, NIST Traceable Calibration Certification, and Software	42 in	18 in	10 Hours	EBT731	**3ATR7**
25 to 2500	Backlit	Wheeled Luggage Style Carrying Case, Detachable Micromanometer, (4) AA Rechargeable NiMH Batteries, Multi Country AC Adaptor, 18 in Pilot Probe, (2) Static Pressure Probes, 16 ft Tubing, USB Cable, Stand, Tablet	42 in	18 in	10 Hours	EBT731-STA	**53XX16**
30 to 1000	Analog Meter	Base, Meter, 2 x 2 Hood, Case, and Batteries	42 in	18 in	12 Hours	ABT701	**3ATR8**

Item	Mfr. Model	Item No.
For Use With 3ATR7		
Air Flow Probe	800187	**3ATT1**
Temperature And Humidity Probe	800219	**3ATT2**
Velocity Matrix Probe	801090	**3ATR9**
For Use With 3ATR7 and 3ATR8		
Hood & Frame Kit	801201	**3DTE2**
Hood & Frame Kit	801202	**3DTE3**
Hood & Frame Kit	801203	**3DTE4**
Hood & Frame Kit	801206	**3DTE5**
Hood & Frame Kit	801207	**3DTE6**

3ATR7

AMPROBE EXTECH INSTRUMENTS

CO_2, Humidity, and Temp. Loggers

Display and record air quality factors where high levels of carbon dioxide are generated. Maintenance-free, dual-wavelength NDIR (nondispersive infrared) CO_2 sensors. LCD displays CO_2, temperature, and relative humidity.

Item	Carbon Dioxide Concentration	Relative Humidity Range	Temp. Range	Brand	Mfr. Model	Item No.
Wall-Mounted Carbon Dioxide Meter	380 to 2000 ppm	0 to 85%	14 to 140°F	Amprobe	CO2-200	**5AER7**
CO2/Humidity/ Temp Datalogger	0 to 4000 ppm	10 to 95%	32 to 122 F (0 to 50 C)	Extech	SD800	**5WYW1**

5AER7

5WYW1

MACURCO GAS DETECTION

Gas Detection Systems

Gas Detector/Controller/ Transducers—Dual-relay electronic detection systems monitor gas concentrations. Automatic fan/ louver/valve control helps maintain safe levels in parking garages, warehouses, and other commercial sites. 4-20mA current loop and alarm relay.

6-Series low-voltage units are for use in boiler rooms, vehicle maintenance areas, kitchens, and battery rooms.

12-Series line-voltage systems with internal switching power supply mount to 4" x 4" electrical boxes.

Gas Detectors for Fire/Security Systems—Low-voltage electronic detectors connect to alarm controls.

Exhaust Fan Control Panels—Automatic controls provide up to 3 ventilation control zones, choice of sensor- or time of day-based control, and include drivers for external horn or strobe alarms. Lockable NEMA 1 enclosure with external keypad, externally visible status, system, and alarm indicators. Control up to 12 gas sensors (sold separately).

45CJ96
12-Series

36CF95

36CF90

Alarm Type	Operating Temp. Range	W	D	H	Power Req.	Gas Type	Sensor Range	Std.	Mfr. Model	Item No.
Gas Detector/Controller/Transducers										
Macurco 6-Series										
Audible and Visual	0° to 125°F (-18° to 52°C)	4 in	2 ⅛ in	4 ½ in	12 to 24V AC or 12 to 32V DC	C3H8, CH4, H2	0 to 50% LEL	ETL Listed to UL 61010-1, CAN/CSA C22.2 No. 61010-1	GD-6	**36CF89**
						CO	0 to 200 ppm		CM-6	**36CF92**
						H2S	0 to 50 ppm		TX-6-HS	**36CF98**
						NH3	0 to 100 ppm		TX-6-AM	**36CF97**
						NO2	0 to 20 ppm		TX-6-ND	**36CF96**
						O2	0 to 25% v/v		OX-6	**45CJ93**
						Refrigerants	0 to 1000 ppm		RD-6	**45CJ92**
Macurco 12-Series										
Audible and Visual	0° to 125°F (-18° to 52°C)	4 in	2 ⅛ in	4 ½ in	100 to 240V AC (50 to 60 Hz)	C3H8, CH4, H2	0 to 50% LEL	ETL Listed to UL 61010-1, CAN/CSA C22.2 No. 61010-1	GD-12	**45CJ95**
						CO	0 to 200 ppm		CM-12	**45CJ94**
						H2S	0 to 50 ppm		TX-12-HS	**45CK01**
						NH3	0 to 100 ppm		TX-12-AM	**45CJ99**
						NO2	0 to 20 ppm		TX-12-ND	**45CJ98**
						O2	0 to 25% v/v		OX-12	**45CJ96**
						REF	0 to 1000 ppm		RD-12	**45CJ97**
Gas Detectors for Fire/Security Systems										
Audible and Visual	32° to 120°F (0° to 48.9°C)	3 ⅛ in	3 ⅛ in	5 ⅛ in	12 to 24V AC or 9 to 32V DC	C3H8, CH4	0 to 25% LEL	Designed to meet UL 2075, Sensitivity Tested Based on UL 1484	GD-2B	**36CF88**
	40° to 100°F (4.4° to 37.8°C)				9 to 32V DC	CO	0 to 400 ppm	Listed to UL 2075, Tested to UL 2075 Using UL 2034 Sensitivity Limits, CSFM Approved	CM-E1	**36CF95**
Visual	32° to 120°F (0° to 48.9°C)	5 in	1 ⅝ in	4 in	12 to 24V AC/DC	C3H8, CH4	0 to 25% LEL	Listed to UL 2075, Sensitivity Tested Based on UL 1484, CSFM Approved	GD-2A	**36CF87**
						H2	0 to 10% LEL	N/A	HD-11	**36CF94**

Alarm Type	Operating Temp. Range	W	D	H	Std.	Mfr. Model	Item No.
Exhaust Fan Control Panels							
Audible and Visual	32° to 120°F (0° to 40°C)	10 ½ in	2 in	12 ½ in	ETL Listed to UL 508A, CAN/CSA-C22.2 No. 14-13	DVP-120	**36CF90**
					ETL Listed to UL 508A, CAN/CSA-C22.2 No. 14-13, LADBS Approved	DVP-120LA	**36CF91**

23V750

4WDT2

30JZ52

Air Particle Counters

TSI | ALNOR   EXTECH INSTRUMENTS

- Flow rate: 0.1 cfm

Data sets can be stored and downloaded for analysis and reporting. Each includes zero filter, software, carrying case, AC power supply, and battery.

23V750—6-channel instrument has easy-to-use graphical interface. Stores up to 5000 sample records on micro SD card (4 GB card included). Includes tripod and USB cable.

4WDT2—Intuitive keypad for easy setup: Up to 3 channels of simultaneous data with selectable middle channel. Internal memory stores up to 1500 sample records. Includes probe, tubing, and NIST calibration certificate.

30JZ52—Simultaneously measures and displays 6 channels of particle sizes. Measures air temperature, humidity, dew point, and wet bulb. Includes NIST traceable calibration certificate.

Particle Size	Display	No. of Channels	Relative Humidity Range	Temp. Range	Brand	Mfr. Model	Item No.
0.3, 0.5, 1.0, 2.5, 5.0 and 10 um	Color Display	6	0 to 100%	32° to 122°F	GA	—	**23V750**
0.3, 1.0 and 5.0 um	Backlit Graphical Display	3	20 to 95%	41° to 95°F	TSI Alnor	9303-01	**4WDT2**
0.3, 0.5, 1.0, 2.5 and 10um	2.8 in TFT Color LCD	6	0 to 100%RH	-14° to 140°F (-25° to 60°C)	Extech	VPC300	**30JZ52**

Particle Counter

FLUKE.

- Simultaneously measures and displays 6 channels
- Customizable display, sample method, and alarm settings for sample count
- Stores up to 10,000 samples
- NIST traceable

Indoor air quality troubleshooter/monitor can be used in industrial cleanrooms to monitor particle concentrations and help measure filter efficiency. Features onscreen trend graphs for quick-and-easy analysis. Data can be downloaded via USB memory stick or the included USB and Ethernet cables.

Particle Size	Concentration Range	Flow Rate	Count Modes	Includes	Mfr. Model	Item No.
0.3, 0.5, 1, 2, 5, 10 micron	10% at 4,000,000 per cu ft	0.1 cfm	Cumulative or Differential	Ethernet Cable, Filter, Filter Adapter, Getting Started Manual, Instrument Cradle, Power Adapter W Intl Power Adaptor Set, USB Cable, Users Manual on CD, and Hard Carrying Case, nlet Protective Cap	Fluke-985	**20Z194**

Formaldehyde Test
3UUL4

Organic Vapor Test
3UUL7

Radon Test
6JHR0

Multi-Contaminant Kit
6JHR7

Indoor Air Quality Screening Kits

Test indoor areas for airborne pollutants that may pose potential health or safety risks, such as mold, dust, gases, or vapors. These kits are commonly used to screen facilities that use HVAC systems to ensure filtration and ventilation systems are working properly. Collected samples are sent to a lab for processing and results.

Item	Includes	Mfr. Model	Item No.
Single-Contaminant Kits			
Allergen Screen Check	Sample Collection Device for 1 Surface Sampling	ASC	**3UEK5**
Bacteria Screen Check	Sample Collection Device for 1 Surface Sampling	BSC	**3UUK4**
Bed Bug Check Kit	Includes bed bug sampling trap, and instructions	BBSC	**60XZ64**
Dust Mite Screen Check	Sample Collection Device for 1 Surface Sampling	DMSC	**3UUK1**
Fiberglass Screen Check	Sample Collection Device for 1 Surface Sampling	FSC	**3UEK8**
Formaldehyde Screen Check	Sample Collection Device for 1 Air Sampling	FOSC	**3UUL4**
Fungus Test Kit	Sample Collection Device for 1 surface sampling location, instructions, return post-paid envelope and chain of custody. Includes Lab Analysis and final report.	FNGSC	**60XZ65**
Indoor COVID Surface Test 10	10 Sampl collection swabs and vials, instructions, return post-paid envelope and chain of custody	COV10	**60XZ62**
Indoor COVID Surface Test 5	5 Sampl collection swabs and vials, instructions, return post-paid envelope and chain of custody. Includes Lab Analysis and final report.	COV5	**60XZ61**
Lead Test	Sample Collection Device for 8 Surface Sampling	LC	**6JHR2**
Legionella Test Kit	Sample Collection Device for 1 sampling location, instructions, return post-paid envelope and chain of custody. Includes ELITE CDC Certified Lab Analysis and report.	LSC	**60XZ63**
Mold Screen Check	Sample Collection Device for 1 Surface Sampling	MSC	**3UEK2**
MYCOTOX Screen Check	Sample Collection Device for 1 Surface Sampling	MTSC	**6JHR1**
Organic Vapor Screen Check	Sample Collection Device for 1 Air Sampling	OVSC	**3UUL7**
Radon Screen Check	Sample Collection Device for 1 Air Sampling And National Environmental Laboratory Accreditation Program (NELAP) Accredited	RSC	**6JHR0**
Smoke Particulate Screen Check	Sample Collection Device for 1 Surface Sampling	SPSC	**6JHP9**
Staphylococcus Screen Check	Sample Collection Device for 1 Surface Sampling	SSC	**6JHP8**
Multi-Contaminant Kits			
Environmental Diagnostic Kit	10 Aerobiology Cassettes, 10 Surface Microscopy Bio-Scan 400, 5 Dust Allergen Screen	EAS	**6JHR6**
	20 Aerobiology cassettes, 20 Dust Allergen Screen, 20 Surface Microscopy Preparations, Digital Timer, Heavy Duty Carry Case, High Volume Pump, Telescopic Stand, Vinyl Tubing	EAP	**6JHR7**
	(20) Aerobiology Cassettes, (20) Dust Allergen Screen, (20) Surface Microscopy Preparations, 2 Carrying Cases with Wheels, 3 .5 micron Particle Counter, Digital Timer, High Volume Pump, Single Stage Bio-Aerosol Sampler, Telescopic Stand, Vacuum for Dust Allergen Screen Sampling, Vinyl Tubing, Wall Moisture Meter	EAPP	**6JHR8**
Indoor Air Quality Test Kit	2 Surface Microscopy Slides, 3 Aerobiology (air-o-cells) Cassettes, Lab Analysis, Mini-Pump	EA2	**6JHR3**
	4 Surface Microscopy Slides, 5 Aerobiology air-o-cells Cassettes, Mini-Pump	EA4	**6JHR4**
	7 Surface Microscopy Slides, 8 Aerobiology (air-o-cells) Cassettes, Mini-Pump	EA5	**6JHR5**

5AER6

1VXT4

30ZV04

9XJ81

3JXZ8

Air Quality Meters and Analyzers

AMPROBE EXTECH INSTRUMENTS TSI ALNOR

Help monitor indoor air quality (IAQ) in occupied spaces. Each instrument employs a nondispersive infrared (NDIR) carbon dioxide sensor.

Amprobe Handheld CO_2 Meter—Portable meter provides instant feedback in offices, production floors, schools, and hospitals. Features easy-to-read large LCD with simultaneous CO_2, temperature, and relative humidity (RH) readings. Includes hard carrying case.

Extech IAQ Analyzer—Features continuous and manual datalogging including min./max. with time stamp. High/low audible and visual alarms. Stores 99 manual/20,000 continuous readings. Includes software and RS-232 cable.

Extech IAQ Carbon Dioxide Meter—Checks for CO_2 concentrations, measures temperature and relative humidity, and displays calculated dew point and wet bulb. Programmable CO_2 audible alarm. Transmits continuous readings to PC via USB cable. Includes data acquisitions software.

Extech Portable IAC CO_2 Meter—Measures carbon dioxide, temperature, humidity, dew point, and wet bulb. Calculates 8-hr. and 15-min. TWA. Programmable audible alarm and backlit triple LCD. Includes software, RS-232 cable, and carrying case.

TSI Alnor IAQ Tester—IAQ-Calc cost-effective meter features a low-drift NDIR sensor and a sampling function that records multiple-point measurements. Includes calibration certificate and carrying case.

Extech IAQ CO/CO_2 Meter —Checks CO and CO_2 concentrations, measures temperature and relative humidity, and displays calculated dew point and wet bulb. Calculates 8- hr. and 15-min. time-weighted average (TWA). Datalogs up to 32,000 points. Includes USB cable, software, and case.

Description	Carbon Dioxide Concentration	Temp. Range	Relative Humidity Range	Auto Power Off	Data Hold	Display	Power Source	Mfr. Model	Item No.
Amprobe									
Hand-Held Carbon Dioxide Meter	0 to 9999 ppm	14° to 140°F	0 to 95%	Yes	Yes	Triple Line LCD	(4) AA Batteries	CO2-100	**5AER6**
Extech									
Carbon Monoxide/Carbon Dioxide IAQ Meter	0 to 9999 ppm	-5° to 140°F	0 to 99.9%	Yes	Yes	Triple LCD	(4) AA Batteries	CO260	**404K04**
Indoor Air Quality Analyzer	1 to 6000 ppm	-4° to 140°F	10 to 95%	—	Yes	Back Lighted LCD	Six AAA Batteries	EA80	**1VXT4**
Indoor Air Quality Carbon Dioxide Meter	0 to 9,999 ppm	14° to 122°F (-10° to 50° C)	10% to 90%	Yes	Yes	Dual Backlit LCD	(6) AAA Batteries	CO240	**30ZV04**
Portable Indoor Air Quality CO2 Meter	0 to 5000 ppm	14 to 140°F	0.0 to 99.9%	No	No	—	—	CO250	**9XJ81**
TSI Alnor									
Indoor Air Quality Tester	0 to 5000 ppm	40 to 113 F	—	No	No	Multiline LCD	(4) AA Batteries	7515	**3JXZ8**

ASPIRATOR KIT

Carbon Monoxide Aspirator Kit 4WR68

Fluke-CO-205

Kit for use with 4TP97

Description	Mfr. Model	Item No.
Carbon Monoxide Aspirator Kit	Fluke-CO-205	**4WR68**

Fluke CO-220 4TP97

Fluke 971 5YE63

Fluke 922 1CWL5

FLUKE.

Indoor Air Quality Meters

Diagnostic tools help control indoor environments and manage energy use, providing automated measurements, data collection, and analysis.

FLUKE CO-220 CARBON MONOXIDE METER

Beeper triggers with increasing frequency as CO level rises. Bright backlight makes it easy to view the large LCD screen under dim lighting.

FLUKE 971 TEMPERATURE HUMIDITY METER

- Measures dew point, wet bulb temperature, and humidity
- 99-record storage capacity
- 0.1°F/0.1°C resolution

Backlit dual display.

FLUKE 922 AIRFLOW METER/MICROMANOMETER

- Measures differential and static pressure, air velocity, and flow readings
- Min./max./avg./hold

Duct shape and size are user-defined for maximum air flow accuracy. Colored hoses help with proper interpretation of pressure readings.

Temp. Range	Relative Humidity Range	Air Pressure Range	Air Velocity	Air Flow Range	CO Measurement Range	Includes	Mfr. Model	Item No.
—	—	—	—	—	0 to 1000 ppm	Instructions	FLUKE-CO-220	**4TP97**
-4° to 140°F	5 to 95%	—	—	—	—	Operation Manual	Fluke-971	**5YE63**
32° to 122°F	—	±4000 Pascals, ±400 mm H2O, ±40 mbar, ±0.6 psi	250 to 16,000 fpm	0 to 99,999 cfm, 0 to 99,999 m3/hr, 0 to 99,999 l/s	—	(2) Rubber Hoses, 12 in. Pitot Tube, Fluke 922 Airflow Meter, Hard Carrying Case, ToolPakTM, Wrist Strap	FLUKE-922/KIT	**1CWL6**
32° to 122°F	—	±4000 Pascals, ±400 mm H2O, ±40 mbar, ±0.6 psi	250 to 16,000 fpm	0 to 99,999 cfm, 0 to 99,999 m3/hr, 0 to 99,999 l/s	—	Carrying Case, (2) Rubber Hoses, Wrist Strap	Fluke-922	**1CWL5**

4XX70

30ZP37

Pocket Anemometers

Waterproof Fold-Up— Simultaneously display air velocity and temperature or wind chill, and feature selectable averaging mode. 1RK12 also measures relative humidity from 10% to 95% and dew point from 32° to 122°F.

Heat Index—Measures humidity and temperature (air and PT1000 thermistor), plus heat index and barometric pressure. Also measures visible light from 0 to 1860Fc (20,000Lux).

Mini Vane—Has a built-in compass and provides wind direction and 360° readings.

Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Volume (CFM)	Temp. Range	Display	Power Source	Mfr. Model	Item No.
Waterproof, Fold-Up Pocket Anemometers								
100 to 5,500 fpm	0.5 to 28 mps	1.1 to 62.5 mph	—	0° to 122°F	Dual LCD	CR2032 Battery	45118	**4XX70**
Waterproof, Fold-Up Pocket Anemometer with RH and Dew Point								
100 to 5,500 fpm	0.5 to 28 mps	1.1 to 62.5 mph	—	0° to 122°F	9,999 Count LCD	CR2032 Battery	45158	**1RK12**
Heat Index, Barometric Pressure, and Visible Light or UV								
80 to 3937	0.4 to 20	0.9 to 45	0.87 to 1,271,300 cfm	32° to 122°F	Backlit LCD	CR2032 Battery	EN100	**30ZP37**
Mini Vane Thermo-Anemometer								
216 to 3,936 fpm	1.1 to 20 mps	0.5 to 44.7 mph	—	5° to 122°F	LCD	—	45168CP	**40GR97**

5AER4

13G529

43Y057

43Y053

12A182

9WP68

3TFP2

CFM/CMM Thermo-Anemometers

TSI Alnor®—Store up to 12,700 samples. 12A182 also measures humidity and stores 26,500 readings.

Amprobe®—Pocket size unit also measures humidity, dew point, wet bulb, and wind chill.

Kestrel—49KA91 has a compass, and measures crosswind and headwind/tail-wind. 8UME8 measures 3 second average wind speed. 9U521 measures dew point, relative humidity, wind chill, and heat stress index. 8D481 measures water and snow temperature, as well as wind chill.

Westward—Includes interchangeable probes.

UEI Test Instruments™—Also measures relative humidity, and wet and dry bulb.

Cone Kit—Quick, easy air flow measurements for common size ducts.

AcuRite®—Also measures humidity, altitude, and wind chill, calculates heat index, and keeps records for high and low temperatures. Can be mounted on tripods with ¼" 20-thread fitting.

Sensing Method	Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Volume	Temp. Range	Humidity Sensing	Auto Power Off	Data Hold	Display	Mfr. Model	STANDARD Item No.	NIST Item No.
Anemometers with IR Temperature												
Extech												
Rotating Vane	80 to 5,900 fpm	0.4 to 30 mps	0.9 to 67 mph	0 to 999,999 cfm	-58° to 500°F (IR), 14° to 140°F (Air)	No	Yes	Yes	9,999 Count LCD	AN200	**1PKZ5**	—
	80 to 5,906 fpm	0.4 to 30 mps	0.9 to 67 mph	0 to 999,999 cfm	-58° to 500°F (IR), 14° to 140°F (Air)	No	Yes	Yes	9,999 Count LCD	AN200	—	**5GCD6**
Rotating Vane and Thermistor	80 to 5,900 fpm	0.4 to 30 mps	0.9 to 67 mph	0 to 9,999 cfm	14° to 140°F	No	Yes	Yes	Dual LCD	AN100	—	**5GCD5**
Anemometers												
Acurite												
Rotating Vane	0 to 1,990 fpm	0 to 27 mps	0 to 60 mph	—	-40° to 158°F	Yes	Yes	No	LCD	00256M	**53DP70**	—
Amprobe												
Rotating Vane and Thermistor	60 to 3,937 fpm	1.1 to 20 mps	0.5 to 44.7 mph	—	32° to 122°F	Yes	Yes	Yes	LCD	TMA5	**5AER4**	—
Extech												
Rotating Vane and Thermistor	79 to 6,890 fpm	0.4 to 35 mps	0.9 to 78.3 mph	—	-148° to 2,192°F (Type J), -148° to 2,372°F (Type K), 32° to 158°F (Air)	No	Yes	Yes	9,999 Count LCD	SDL300	**6YNG6**	**6YNG7**
	80 to 4,930 fpm	0.4 to 25 mps	0.9 to 55.9 mph	—	32° to 122°F	No	Yes	Yes	9,999 Count LCD	SDL310	**13G529**	—
	98 to 3,937 fpm	0.5 to 20 mps	—	0 to 99,999 cfm	-4° to 140°F	Yes	Yes	Yes	Dual LCD	AN340	**43Y057**	**21YE24**
	40 to 5,900 fpm	0.2 to 30 mps	—	0 to 99,999 cfm	-4° to 140°F	No	Yes	Yes	Dual LCD	AN300	**43Y053**	**21YE21**
	40 to 5,900 fpm	0.2 to 30 mps	—	0 to 99,999 cfm	-4° to 140°F	Yes	Yes	Yes	Dual LCD	AN310	**43Y055**	**21YE22**
	100 to 6,890 fpm	0.5 to 35 mps	1.1 to 78.3 mph	0 to 999,900 cfm	32° to 176°F	No	Yes	Yes	9,999 Count LCD	407113	**1BP96**	**4HRF4**
	80 to 5,900 fpm	0.4 to 30 mps	0.9 to 67 mph	0 to 9,999 cfm	14° to 140°F	No	Yes	Yes	1,999 Count LCD	AN100	**1PKZ4**	—
Kestrel												
Rotating Vane	118 to 7,874 fpm	0.6 to 40 mps	1.3 to 89.5 mph	—	—	No	Yes	Yes	Reflective 3 ½ Digit LCD	0810	—	**8UME8**
	118 to 7874	0.6 to 60	0.4 to 89	—	-20° to 158°F	Yes	Yes	Yes	LCD	0855YEL	—	**49KA91**
Rotating Vane and Thermistor	118 to 7,874 fpm	0.6 to 40 mps	1.3 to 89.5 mph	—	-20° to 158°F	No	Yes	Yes	Reflective 3 ½ Digit LCD	0820	—	**8D481**
	118 to 7874	0.6 to 40	1.3 to 89.5	—	-20° to 158°F	Yes	Yes	Yes	Reflective 3½ Digit LCD	0830	—	**9U521**
TSI Alnor												
Hot Wire	0 to 9,999 fpm	0 to 50 mps	—	0 to 999,999 cfm	14° to 140°F	Yes	Yes	Yes	Graphic LCD	9565	—	**12A182**
Hot Wire and Thermistor	0 to 6,000 fpm	0 to 30 mps	—	—	0° to 200°F	No	No	No	LCD	9535-A	—	**3MPD3**
	0 to 6,000 fpm	0 to 30 mps	—	—	0° to 200°F	No	No	No	LCD	9535	—	**3MPD2**
UEI Test Instruments												
Rotating Vane and Thermistor	99 to 3,937 fpm	0.5 to 20 mps	—	0 to 99,999 cfm	-4° to 140°F (-20° to 60°C)	Yes	Yes	Yes	1.38 x 2.13 in LCD	DAFM3B	**9WP68**	—
Westward												
Rotating Vane and Hot Wire	Hot Wire: 40 to 3,900 fpm, Vane: 80 to 4,900 fpm	Hot Wire: 0.2 to 20 mps, Vane: 0.4 to 25 mps	Vane 0.9 to 55.9 mph/Hot Wire 0.5 to 44.7 mph	—	-5° to 175°F	No	Yes	Yes	Dual 4 Digit LCD	3TFP2	**3TFP2**	—
Air Flow Cone Adapter Kit												
Extech												
For Use With AN300, AN310 and AN320 Large Vane Anemometers										AN300-C	**43Y054**	—

Hot Wire Thermo-Anemometers

Dual-purpose instruments measure temperature and air speeds in ducts and ventilating systems.

DWYER®

Shows simultaneous air velocity or air flow and temperature on high-contrast backlit LCD. Stores up to 99 readings. 8" stainless steel probe is etched with insertion depth marks.

EXTECH®

3MPE6,5GCD3, 4KC29 and 5ZT04—Simultaneously display air temperature and air velocity down to 40 ft./min. Telescoping probe is designed to fit into small openings.

3MPE6 and 5GCD3 also measure air flow in cfm/cmm and display instantaneous or 20-pt. average air flow down to 40 ft./min. Probe extends to 3 ft.

4KC29 and 5ZT04 include 37" telescoping probe and 40" cable.

Optional Data Acquisition Software 1CLF1 is available on Grainger.com.

13G530 and 36FW25—Selectable sampling rate of 1 to 3600 sec. Display simultaneous air velocity and temperature. Telescoping probe. Accept Type J/K thermocouple for high-temperature measurement. Retain up to 99 readings, or use included SD card to data log up to 20 million readings in Excel® format.

TSI ALNOR®

1UCY4—40" telescoping straight probe.

1UCY6 and 1UCY7—Both have 42" articulated probe. 1UCY7 also measures relative humidity to 95% (±3% accuracy) and calculates dew point and wet bulb temperature.

UEI TEST INSTRUMENTS™

Directly captures air temperature, relative humidity, and air velocity. Calculates wet bulb temperature, dew point temperature, and air volume. Air volume is displayed in real-time, or choose a timed average with start/stop capabilities to traverse ductwork. Also features 0.7" small diameter air vane on 39" long telescoping probe. Includes hard carrying case, 9V battery, and manual.

TESTO

Determines air velocity, temperature, and volume flows. Via Bluetooth®, readings are transmitted wirelessly to convenient app-based operation on smartphone or tablet.

Vel. (fpm)	Vel. (mps)	Vel. (mph)	Air Velocity Accuracy	Temp. Range	Interface	Data Logging	STANDARD Mfr. Model	STANDARD Item No.	NIST Mfr. Model	NIST Item No.
Dwyer										
0 to 6,000 fpm	0 to 30 mps	67 mph	±3%	-40° to 212°F	—	No	471B-1	**24A466**	—	—
Extech										
40 to 3,346 fpm	0.2 to 17 mps	0.9 to 38 mph	±5% +5 Digits	32° to 122°F	RS-232	No	407119	**3MPE6**	407119	**5GCD3**
40 to 3,940 fpm	0.2 to 20 mps	0.5 to 45 mph	±3%	32° to 122°F	RS-232	No	407123	**4KC29**	407123	**5ZT04**
40 to 3,940 fpm	0.2 to 25 mps	0.5 to 45 mph	±5%	32° to 122°F	SD Card and PC	Yes	—	—	SDL350	**36FW25**
40 to 3,940 fpm	0.2 to 25 mps	0.5 to 45 mph	±5%	32° to 122°F	RS-232	Yes	SDL350	**13G530**	—	—
Testo										
0 to 6,000 fpm	0 to 68 mps	0.12 to 68 mph	±0.1 mps +5% (0 to 2 mps), ±0.3 mps +5% (2 to 15 mps), ±19.7 fpm +5% (0 to 394 fpm), ±59.1 fpm +5% (394 to 2,953 fpm)	-4° to 140°F	Bluetooth 4.0	No	0560 1405 01	**49ZZ52**	—	—
TSI Alnor										
0 to 4,000 fpm	0 to 20 mps	—	±5%	0° to 200°F	—	No	—	—	AVM410	**1UCY4**
0 to 6,000 fpm	0 to 30 mps	—	±3%	0° to 200°F	USB	Yes	—	—	AVM430-A	**1UCY6**
0 to 6,000 fpm	0 to 30 mps	—	±3%	14° to 140°F	USB	Yes	—	—	AVM440-A	**1UCY7**
UEI Test Instruments										
99 to 3,937 fpm	0.5 to 20 mps	—	±3%	-4° to 140°F	Digital	No	DAFM4	**35WC98**	—	—

Ultrasonic Leak Detectors

Diagnose problems before they result in major breakdowns. Units detect ultrasonic sound produced by pressurized leaks, vacuum leaks, arcing electrical power distribution equipment, and faulty seals and gaskets.

Amprobe®—Parabolic shield reduces background noise. Extension tube for difficult or dangerous areas.
- 20,000 to 90,000 Hz AC frequency response

Spectroline®—Solid-state circuitry enhances sensitivity and simplifies operation. Touch-control pad with 5-LED signal-intensity indicator and audible alarm. Contact probe helps diagnose internal components without disassembly. Probe reaches into tight spaces.
- 10 to 10,000 Hz AC frequency response

Bacharach®—6JHN8 simultaneously detects vacuum and high-pressure leaks. Includes a foldable headset. Other instruments have an internal sensor and hard hat-compatible headphones. 6JHP2 employs 2 software-controlled sensors. 6JHP4 has multiple detection bands, including unique acoustic bands.
- 34,000 to 42,000 Hz AC frequency response

Item	Includes	Mfr. Model	Item No.
Amprobe			
Leak Detector	(4) AA Batteries, Earbuds, PB-1 Power Parabola, Receiver, Soft Carrying Case, TE-1 Tubular Extension, TEA-1 Flexible Tubing Adapter	ULD-405	**60UN26**
Ultrasonic Leak Detector	(2) AAA Batteries, (4) AA Batteries, Flexible Tubing Adapter, Hard Carrying Case, Headphones, Power Parabola, Receiver, Transmitter, Tubular Extension	ULD-420	**55EP59**
Bacharach			
Compact Ultrasonic Leak Detector	LED Bar Graph	28-8001	**6JHP0**
	Sound Blaster	28-8011	**6JHP1**
Ultrasonic Inspection System	3 Foot Extension Probe, 6 in Wave Guide, Hard Carrying Case, Hard Hat Compatible Headphones, Instructions, Touch Probe	28-8003	**6JHP4**
	3 Foot Extension Probe, 6 in Wave Guide, Hard Carrying Case, Headphones, Instructions, Sound Blaster Ultrasonic Sound Generator, Touch Probe	28-8013	**6JHP5**
Ultrasonic Leak Detector	Folding Headphones, Instructions	28-8000	**6JHN8**
	Headphones, Instructions, Sound Blaster Ultrasonic Sound Generator	28-8010	**6JHN9**
	Folding Headphones, Instructions	28-8002	**6JHP2**
	Hard Hat Compatible Headphones, Instructions, Sound Blaster Ultrasonic Sound Generator	28-8012	**6JHP3**
Spectroline			
Ultrasonic Leak Detection	(2) D Alkaline Batteries, Air Probe, Carrying Case, Contact Probe, Noise-Canceling Headphones, Ultrasonic Emitter, Ultrasonic Receiver	SPI-MDT	**55NH89**

3UCH3

2ELP8

3JYN7

36T592

AMPROBE BACHARACH EXTECH GENERAL SENSIT TPI UEI

Combustible Gas Leak Detectors

Handheld service instruments help identify unsafe concentration of gas near furnaces and other equipment.

Detects	Features	Measuring Range	Brand	Mfr. Model	Item No.
Acetone, Acetylene, Alcohol, Ammonia, Butane, Combustible Refrigerants, Gasoline, Hydrogen Sulfide, Methane, Naphtha, Natural Gas, Propane, Smoke, Solvents, Steam, Thinners, Volatile Jet Fuel	—	—	UEI Test Instruments	CD100A-N	**49CK92**
	—	—	UEI Test Instruments	CD200-N	**49CK93**
	NIST Calibration	—	UEI Test Instruments	LPKIT-N	**49CK97**
Acetone, Acetylene, Alcohols, Ammonia, Benzene, Butane, Ethane, Ethanol, Ethylene, Gasoline, H.Sulfide, Hydrogen, Industrial Solvents, ISO-Butane, Methane, Methyl Ether, NOL, Propane, Toluene, Xylene	LCD and LED Dual Display	—	General	CGD900	**6YPT4**
Acetone, Acetylene, Ammonia (R717), Chlorine, Ethane (R170), Ethylene, Gasoline, Hydrogen, Hydrogen Sulfide, Iso-Butane (R600a), Methane, Methanol, Methyl Chloride, Methyl Ether, Propane (R290)	15 in Probe, 30 Seconds Warmup Time, Instantaneous Response, Variable Sensitivity	—	—	TIF8900	**3UCH3**
Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Iso-Butane, Methane, Methanol, Naptha, Natural Gas, Paint Thinners, Propane	Auto Calibration	—	Bacharach	19-7075	**4LU63**
Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Methane, Naptha, Natural Gas, Paint Thinners, Propane	Automatic, LED, Loud Audible Ticking Rate, Self Check, Self Storing 20" Flexible Probe	20 ppm (Methane)	Bacharach	19-7051	**3JYN5**
Acetone, Alcohol, Ammonia, Benzene, Butane, Ethylene Oxide, Gasoline, Halon, Hydrogen Sulfide, Industrial Solvents, Jet Fuel, Lacquer Thinners, Methane, Naphtha, Natural Gas, Propane, Refrigerants, Toluene	Fully Adjustable Thumbwheel	50 ppm (Methane)	UEI Test Instruments	CD100A	**8EUN6**
Acetone, Alcohol, Ammonia, Butane, Carbon Monoxide (Not To Quantify), Ethane, Gasoline, Hydrogen Sulfide, Industrial Solvents, Jet Fuel, Lacquer Thinner, Methane, Naptha, Natural Gas, Propane, Smoke, Steam	16 in Flexible Gooseneck	—	Extech	EZ40	**2ELP8**
Acetone, Alcohol, Ammonia, Butane, Gasoline, Halon, Hydrogen Sulfide, Industrial Solvents, Jet Fuel, Lacquer Thinner, Naptha, Natural Gas (Methane), Propane, Steam	Adjustable Tick Rate, Fast Response Time of Less Than Two Seconds to 40% LEL, Precision Sensor Detects, Separate User Adjustable Alarm for Predetermined Level Detection, Visual Leak Detection	Less Than 50 ppm (Methane)	UEI Test Instruments	CD200	**9GH90**
Butane, Diesel, Gasoline, Kerosene, Methane, Natural Gas, Propane	LEL% Reading 2.1% to 100%	0 to 999 ppm	Test Products Intl.	HXG-2D	**36M829**
Butane, Diesel, Gasoline, Kerosene, Methane, Natural Gas, Propane (LPG)	Auto Zeros, Fits in Shirt Pocket, Low Power Semiconductor Sensor, Responds Instantly, Sensitive to 1000 ppm (Methane)	Greater Than 1,000 ppm	Test Products Intl.	725A	**3JYN7**
Butane, Diesel, Gasoline, Most Other Flamable Gases, Natural Gas, Propane	16 in Gooseneck Wand, Backlighted Display, Thumb Wheel Tick Rate Adjuster, Visual Display and Tip Signal Indicators	0 to 19.9% LEL, 0 to 9999 ppm Combustibles	Test Products Intl.	721	**6GDP4**
Butane, Methane, Natural Gas, Propane	Calibrated, Catalytic Combustion Sensor	Natural Gas at 4,000 ppm, Propane at 2,000 ppm	General	PNG2000A	**3JYL8**
Carbon Monoxide, Combustible Gases	16 in Flexible Probe, Auto Zero, Backlight, Low Power Semiconductor Sensor, Sensitive to 50 ppm (Methane)	0 to 2,000 ppm CO, 0 to 9,999 ppm Combustibles	Test Products Intl.	775	**3JYP8**
Combustible Gases	16 in Flexible Probe, Earphone Jack, Low Power Semiconductor Sensor, Sensor Test and Automatic Zero at Startup, Thumbwheel Adjustable Tic Rate	10 ppm	Test Products Intl.	720B	**3JYN1**
	13 in Flexible Probe, Audible Alarm, Backlit LCD Screen, Digital Bar Graph, Quick Response	0 to 100% LEL	General Tools	NGD269	**488Z06**
Combustible Gases, Refrigerant Gases	Automatic Sensitivity, Flashing Probe Tip, Low Battery Indicator and Interchangeable Sensors	—	Bacharach	19-8038	**2XFE4**
Methane, Natural Gases, Coal Gases, Hexane, Propane, Ethane, Butane, Pentane, Isopropyl Alcohol, Halogenation Hydrocarbon, (Methanol, Ethanol, Butanol) Aether, Ketone (Butone, Protone), Hydrogen, Toluene, and Other Compounds, (Gasoline, Industrial Solvent, Lacquer, Refrigerant, Sulfur Dioxide, Ammonia, Sulfured Hydrogen, Acetic Acid, Etc.)	Flexible Probe; Low Battery Indicator; Variable Sensitivity, As Low As 5ppm (Gasoline); Instantaneous Response Time; Less Than 110 Seconds in 25, 60%RH Warm-Up Time); Double Color LED Indicates Charge State	—	General	NGD8800	**3KXE5**
Methane, Propane	—	—	Amprobe	GSD600	**4FKR2**
Methane, Propane, Butane and More	16 in Probe, Direct Reading up to 100% LEL, Instantaneous Response	50 ppm to 100% LEL Methane, Propane	Sensit	907-GRNGR-01	**36T581**
	16 in Probe, Direct Reading up to 100% LEL, Instantaneous Response	10 ppm to 100% LEL Methane, Propane	Sensit	906-00000-08	**36T592**
N20	Infrared Technology,Internal Pump and Self-contained Purge-air Bag	0 to 1,000 ppm	Bacharach	3015-4790	**22D058**
Natural Gas 1000 to 6500 PPM, Propane 500 to 6500 PPM	Bulit-in Static Discharge Test	—	Extech	FG100	**4GE83**

Portable Combustion Analyzers

Units all utilize the B-Smart carbon monoxide (CO) sensor. INSIGHT Plus sensor measures 0 to 4000 ppm with integral NOx filter. InTech has 0 to 2000 ppm CO sensor. Feature internal sampling pump and print capability.

Fyrite INSIGHT Plus Combustion Analyzers—5-in-1 residential/commercial testers analyze steady-state combustion and efficiency of 9 selectable fuels. Backlit LCD with zoom and full-color display with dynamic graphing enhance combustion process analysis. O_2 sensor life indication. Proprietary Tune-Rite troubleshooting software is included.

- Color graph screens show stack hot spots and trending
- Measure combustion/ambient and flue gas temperature, O_2, CO, and draft/differential pressure
- Draft pressure: 100" WC
- Calculate CO_2, CO air free, and excess air

Fyrite InTech Residential Analyzers—Basic electronic analyzers calculate the efficiency of residential furnaces and combustion appliances. Lightweight and easy to use for routine service calls. Turn it on, select 1 of 6 fuels, and see quick results on the digital display.

- Measure stack and ambient temperature, O_2, and CO
- Calculate CO_2, CO air free, and excess air

Series	Combustion Efficency	Primary/Ambient Air Temp.	Stack Temp.	Excess Air
InTech	0.1 to 100%	-4 to 212°F	-4 to 1202°F	0 to 250%
INSIGHT	0.1 to 100%	-4 to 600°F	-4 to 1202°F	0 to 250%

36M793

Carbon Monoxide Measurement Range	Includes	Mfr. Model	Item No.
Fyrite® INSIGHT® Plus Combustion Analyzers			
0 to 4000 ppm	4 AA Batteries, Hard Carry Case, Long Life O2 Sensor Installed, Probe, Rubber Boot, Spare Filters, User Manual	0024-8517	**36M793**
	8 AA Batteries, Hard Carry Case, IrDA Printer, Long Life O2 Sensor Installed, Probe, Rubber Boot, Spare Flters, USB Cable, User Manual, User Software	0024-8518	**36M794**
Fyrite® InTech® Residential Combustion Analyzers			
0 to 2000 ppm	4 AA Batteries, Hard Carry Case, Probe, Rubber Boot, User Manual	0024-8523	**36M790**
	4 AA Batteries, Probe, User Manual And Soft Case	0024-8511	**36M788**
	8 AA Batteries, Hard Carry Case, Printer, Probe, Rubber Boot, Spare Filters, USB Cable, User Manual, User Software	0024-8512	**36M789**

36H452

3JYG6

787DK4

Combustion System Analyzer Kits

TESTO

- Measure O_2, CO, temperature, and draft pressure
- Calculate CO_2, excess air (EXA), and efficiency

Testers are ready to use after a fast, 30-sec. warmup. Magnetic back for hands-free operation. 2-line backlit display. Available with an IR printer.

36H452 and 36H453

- Measure O_2, carbon monoxide (CO), temperature, and draft pressure
- Calculate CO_2, excess air (EXA), and efficiency

Testers are ready to use after a fast, 30-sec. warmup. Magnetic back for hands-free operation. 2-line backlit display. Available with an IR printer.

TEST PRODUCTS INTL.

- Measure CO and CO_2
- Calculate O_2, efficiency, excess air, and ratio
- Analyze CO

Full-system diagnostic analyzers help reduce fuel costs.

UEI TEST INSTRUMENTS

787DK4 and 787DK5

- Measure O_2, CO_2, CO, inlet and flue temperature, and differential pressure
- Calculate efficiency, net temperature differential, excess air, and CO/CO_2 ratio

36H167

- Kit for gas leak detection and pressure measurement
- Dual-input to measure pressure to ±60 InWC (inches water column)

Senses combustible, noncombustible, and toxic gases. Includes combustible gas leak detector and electronic manometer. Measures in 11 scales: inH_2O, psi, bar, mBar, kPa, inHG, mmHG, ozin, FtH_2O, cmH_2O, and kgcm.

O_2 Concentration	CO Measurement Range (PPM)	CO_2 Concentration	Primary/Ambient Air Temp.	Pressure/Draft	Excess Air	Includes	Mfr. Model	Item No.
Testo								
0 to 21.0 vol%	0 to 4000	0 to CO2 max Calculated	-4° to 212°F (20° to 100°C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	AC Adapter, Battery, Case, Certificate of Conformity, Extra Particulate Filters, Hose, Pressure Plugs, Probe With Cone, Sensors, Silicon Tubing	0563 3100	**36H452**
0 to 21.0 vol%	0 to 4000	0 to CO2 max Calculated	-4° to 212°F (20° to 100°C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	AC Adapter,Pressure Plugs, Battery, Case, Certificate of Conformity, Extra Particulate Filters, Hose, Printer And 2 Rolls Of Paper, Probe With Cone, Sensors, Silicon Tubing	0563 3110	**36H453**
0 to 21.0 vol%	0 to 4000	0 to CO2 max Calculated	-4° to 212°F (20° to 100°C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	AC Adapter, Battery, Case, Certificate of Conformity, Extra Particulate Filters, Hose, Pressure Plugs, Probe With Cone, Sensors, Silicon Tubing	0563 3100	**36H452**
0 to 21.0 vol%	0 to 4000	0 to CO2 max Calculated	-4° to 212°F (20° to 100°C)	-16 to +16 In. WC - Pressure, -8 to +8 In. WC - Draft	0 to 100% Calculated	AC Adapter,Pressure Plugs, Battery, Case, Certificate of Conformity, Extra Particulate Filters, Hose, Printer And 2 Rolls Of Paper, Probe With Cone, Sensors, Silicon Tubing	0563 3110	**36H453**
Test Products Intl.								
0 to 25%	0 to 10,000	0 To 25%	-58° to 1832°F (-50° to 1000°C)	-15 kPa to +15 kPa, -150 mBar to +150 mBar, -60 to +60 In. WC	0 to 250%	Flue Probe, Infrared Printer, K-Type Thermocouple, Mini Pump Protection Filter, Silicone Tubing, Soft Carrying Case	709A740	**3JYG6**
UEI Test Instruments								
0 to 21%	0 to 10,000	0 to 20%	32° to 112°F	±0.4 in WC to ±32 in WC	0 to 250%	(2) Wireless Pipe Clamp Probes, (2) Wireless Pressure Probe	C165+KIT	**787DK4**
0 to 21%	0 to 10,000	0 to 20%	32° to 112°F	±0.4 in WC to ±32 in WC	0 to 250%	WPC2, CP2 Flue Probe, IRP-2 Infrared printer, Pouch/Cases: AC509, Printer Paper Roll:16646, Quick Start Guide, Rechargeable 3 (AA) Batteries, USB Cable, Water Trap, WIR00067 Charger	C165+KIT-N	**787DK5**
—	—	—	—	-20 to +20 In WC	—	¼" NPT to Hose Barb Adapter, 6CMT9 digial manometer, 8EUN6 combustible gas leak detector, Batteries, Instructions, Sample Tube	LPKIT	**36H167**

5URG3

4FKR5

9M871

1LYP4

9TDL6

9WTE8

AMPROBE EXTECH INSTRUMENTS WESTWARD

Digital Sound Level Meters and Data Loggers

Type 2 meters are suitable for workplace and environmental noise measurements. Dual-range meters take environmental and workplace noise measurements and can be used for product evaluation/certification and audio system installation.

DIGITAL SOUND LEVEL METERS

Use for general noise measurements and basic assessments. Feature analog bar graph with 50dB range updates every 40 msec, Min./Max. values over time, and AC analog output.

4FKR5

Designed to be used by safety engineers, health, industrial and safety officers, and quality control professionals to perform acoustic analysis and check for compliance with safety regulations. Meter uses two different audio weighting filters: A weighting for general noise sound level, and C weighting for measuring sound level of acoustic material control. Features Min./Max. recording and Data Hold. Includes carrying case, user manual, and 9V battery.

EXTECH

Digital Sound Level Meter Kits

Good for noise ordinance enforcement, workplace noise surveys, and installing fire alarms and speaker systems, kits pair Digital Sound Level Meter 9WTE8 with a 94dB sound calibrator to verify and calibrate meter operation.

Sound Level Data Logger

Captures time stamp at selectable sampling rate. Manual or programmed start.

Sound Level Meters

8ZRU0 provides real-time sound exposure level (SEL) and time-averaged (Leq) measurements on 4-digit LCD with analog bar graph. 9- to 25-pin gender changer, male and female voice. 9TDL6 tripod-mountable 6-range instrument has a background noise absorber mode for machine noise measurements. Analog bar graph and Min./Max. values. Optional software/cable package 3LYE6 is available on Grainger.com®.

Sound Level Meter with Display

2-range meter has backlit LCD.

Sound Level Monitor and Alarm

Bright LEDs alert user when sound level is too high or too low. Reads LEDs from 30m (100-ft). Continuous monitoring of sound level. Wall, desk, or tripod mount. User settable high or low limit (30 to 130dB).

Frequency Range	dB Range	Res.	Frequency Weighting	Response Time	Interface	Records Up To	Brand	Mfr. Model	Item No.
Digital Sound Level Meter									
31.5 Hz to 4 kHz	40 to 130	0.1dB	A	Fast	—	—	—	5URG3	**5URG3**
	40 to 130	0.1dB	C	Fast	—	—	—	5URG4	**5URG4**
31.5 Hz to 8 kHz	30 to 130	0.1dB	A and C	Fast/Slow	Relay Output	—	Westward	5URG5	**5URG5**
	30 to 130	0.1dB	A and C	Fast/Slow	—	—	Amprobe	SM-10	**4FKR5**
Digital Sound Level Meter Kit									
31.5 Hz to 8 kHz	35 to 130	0.1dB	A and C	Fast/Slow	—	—	Extech	407732-KIT	**4CWR4**
	35 to 130	0.1dB	A and C	Fast/Slow	—	—	Extech	407732-KIT-NIST	**4CWR5** *
Noise Dosimeter									
20 Hz to 8 kHz	30 to 130	0.1dB	A, C, Z	1000 ms, 125 ms	USB	10,000 in Dosimeter Mode	Extech	SL400	**52ZK78**
Sound Level Datalogger									
31.5 Hz to 8 kHz	30 to 130	0.1dB		Fast/Slow	—	—	Extech	407760	**9M871**
Sound Level Meter									
31.5 Hz to 8 kHz	30 to 130	0.1dB	A and C	Fast, Slow and Impulse	—	32,000 Records	Extech	407780A	**8ZRU0**
	30 to 130	0.1dB	A and C	Fast 200 ms, Slow 500 ms	RS-232, SD Card	20,000 Readings	Extech	SDL600	**13X123**
	30 to 130	0.1dB	A and C	Fast 200 ms, Slow 500 ms	RS-232, SD Card	20,000 Readings	Extech	SDL600-NIST	**13X124** *
25 Hz to 10 kHz	30 to 130	1dB	A, C, Flat	10 ms, 1000 ms, 125 ms, 35 ms	USB	1,024 Data Points	Extech	407790A	**52ZK76**
300 Hz to 8 kHz	40 to 130	0.1dB	A and C	Fast/Slow	—	—	Extech	407730	**1LYP4**
31.5 Hz to 8 kHz	30 to 130	0.1dB	A and C	Fast/Slow	—	—	Extech	407750	**9TDL6**
Sound Level Meter w/ Display									
31.5 Hz to 8 kHz	Low: 35 to 100 /High: 65 to 130	0.1dB	A and C	Fast/Slow	—	—	Extech	407732	**9WTE8**
Sound Level Monitor And Alarm									
31.5 Hz to 8 kHz	30 to 130	0.1dB	A and C	Fast/Slow	Relay Output	—	Extech	SL130W	**1AEV5**

** NIST Certified.*

21NN15

32ZN13

Fluorescent Light Testers

AMPROBE FLUKE.

21NN15—Tests lamps and filaments in a simple 1-handed, 1-button operation. Visual and audio alerts help guide you to the problem's source. Detachable 4-ft. antenna helps you stay on the ground for safer testing. Compatible with all sizes of fluorescent lamps.

32ZN13—Performs all 5 essential lighting tests—lamp test, ballast test, noncontact voltage test, pin continuity test, and ballast-type test—with a single, easy-to-use tool. Bright indicator light and audible alert give quick, easy-to-read results, so you know, in seconds, when fluorescent lamps and ballasts need replacing. Saves time and replacement costs.

Includes	Brand	Mfr. Model	Item No.
Battery, Carrying Case, Detachable Antenna, User Manual	Amprobe	LT-10	**21NN15**
(4) AA Batteries, Detachable Rod Extender, English/Spanish/French, Holster	Fluke	FLUKE-1000FLT	**32ZN13**

EXTECH INSTRUMENTS AMPROBE

Light Meters

4FKR3—Portable, digital light meter measures visible light. Easy-to-use, one-handed operation. Silicon photodiode sensor and filter. Features data Hold and Max. memory.

13G531 and 15E590—Light meter data loggers record data (up to 20M records) in Excel format for easy transfer to a PC for analysis. Selectable sample rate: 1 to 3600 sec.

3MY54 and 2HZC2—EasyView light meters include large LCD with analog bar graph. Wide range ideal for use in bright daylight. Peak function captures short-duration flashes. Color- and cosine-corrected sensor. Features include Min./Max., data Hold, and zero for relative measurements.

1AEV6 and 22DC07—Light meters with remote light sensor on 12" coiled cable. Feature backlit LCD with analog bar graph. Min./Max. feature stores highest and lowest readings; data Hold freezes reading in display.

1M946 and 5ZT02—Heavy-duty light meter has four lighting type settings for enhanced accuracy. Precision photodiode and color correction filter. Features data Hold, Min./Max./Average, and percent reading of the differential from a reference point.

1H153—Light meter measures light levels using a precision diode and color correction filter (cosine/color corrected). Features fast/slow response time and an analog output for capturing readings to a recorder.

6NZG0—Digital meter is designed specifically for measuring light output from LED sources. Features include data Hold and Max. recording. With large, 3½-digit display and protective sensor cap.

2ENE5 and 2ENE7—Feature data Hold, Min./Max., backlit LCD with bar graph, and a built-in data logger that automatically stores up to 16,000 readings or manually stores/recalls up to 99 readings. Software helps transfer readings to a PC for analysis.

30ZP39 and 30ZP40—UV-A/UV-C light meter data loggers designed to record and transfer data to PC for analysis. Sample rate: 1 to 3600 sec.; manually stores 99 readings. Suitable for blue light radiation hazards in welding, UV sterilization, phototherapy, graphic arts, photochemical matching, photo resist exposure, curing of inks, adhesives, and coatings.

5URG1—Environmental light meter with data logging makes it easy to transfer and store data on PCs for future analysis. Additional features include Auto-Ranging, data Hold, and Min./Max.

5URG0—Mini environmental light meter is a palm-sized, low-power consumption meter. Backlit LCD features Auto-Ranging and Max. Hold functions with low-battery alert.

21YE34 and 21YE35—LED light meters both feature a 4000-count display. 21YE34 can be used for white LEDs and standard lighting. 21YE35 measures white and color LEDs (red, yellow, green, blue, purple), as well as standard lighting, and stores/recalls up to 99 records.

4FKR4—Auto-ranging light meter measures visible light from a variety of light sources and illumination levels. Simple one-handed operation. Silicon photodiode sensor and filter. Features include data Hold, Min./Max., manual range, and zero function.

13G531

5URG1

4FKR3

3MY54

1AEV6

5URG0

1M946

2ENE5

30ZP39

21YE34

4FKR4

Measuring Range	Res.	Accuracy	Interface	Cord Length	Auto Power Off	Battery Type	Brand	STANDARD Mfr. Model	STANDARD Item No.	NIST CERTIFIED Mfr. Model	NIST CERTIFIED Item No.
Light Meters											
0 to 10,000 FC, 0 to 100,000 Lux	0.1Fc/1Lux	±4%	SD Card and RS-232	39 in	Yes	(6) AA	Extech	SDL400	**13G531**	SDL400-NIST	**15E590**
0 To 2,000 FC, 0 To 20,000 Lux	0.001 Fc or 0.01 Lux	±3%	USB	—	Yes	9V	—	5URG1	**5URG1**	—	—
0 to 20,000Fc, 0 to 200,000 Lux	0.01 Fc or Lux	±3%	—	39 in	Yes	9V	Amprobe	LM-100	**4FKR3**	—	—
0 to 40,000 FC; 0 to 400,000 Lux	0.01 FC or 0.01 Lux	±3%	—	39 in	Yes	(6) AAA	Extech	EA30	**3MY54**	EA30-NIST	**2HZC2**
	0.01 FC or 0.01 Lux	±5%	—	24 in	Yes	9V	Extech	LT300	**1AEV6**	LT300-NIST	**22DC07**
0 to 40,000 Lux, 0 to 4000 FC	0.1 Fc or 0.1 Lux	±5%	—	—	Yes	9V	—	5URG0	**5URG0**	—	—
0 to 200, 0 to 2000, 0 to 5000 FC; 0 to 2000, 0 to 20,000, 0 to 50,000 Lux	0.1/1/10 FC;1/10/100 Lux	±4% + 2 Digits FS	Built-in RS-232	45 in	Yes	9V	Extech	407026	**1M946**	407026-NIST	**5ZT02**
0 to 5000 FC; 0 to 50,000 Lux	0.1 FC or 1.0 Lux	±5% ±2 Digits	—	45 in	No	9V	Extech	401025	**1H153**	—	—
0.01 to 40,000 FC; 0.1 to 400,000 Lux	0.01 FC or 0.1 Lux	±5%	USB	39 in	Yes	9V	Extech	HD450	**2ENE5**	HD450-NIST	**2ENE7**
2 mW/sq cm, 20 mW/sq cm	0.001mW/sq cm	±4%	SD Card and RS-232	39 in	Yes	AA	Extech	SDL470	**30ZP39**	SDL470-NISTL	**30ZP40**
Measuring Range to 200,000 Lux or 40,000 Foot Candles	1	±3% (Calibrated To Standard Incandescent Lamp 2856°K) and Corrected LED Day While-Light Spectrum ±6% Other Visible Light Sources	Yes	5 ft	Yes	9V	Amprobe	LM-200LED	**6NZG0**	—	—
LED Light Meters											
0 to 40,000 FC; 0 to 400,000 Lux	0.01 FC or 0.1 Lux	±3%	—	—	Yes	(2) AAA	Extech	LT40	**21YE34**	—	—
	0.01 FC or 0.1 Lux	±3%	—	59 in	Yes	9V	Extech	LT45	**21YE35**	—	—
Auto Ranging Light Meters											
0 to 20,000Fc, 0 to 200,000 Lux	0.01 Fc or Lux	±3%	—	39 in	Yes	9V	Amprobe	LM-120	**4FKR4**	—	—

8AZF1

8NDJ6

3MY56

8TLK5

Analog Refractometers

Measure the concentration of dissolved solids for a wide range of applications including food processing, laboratory, and machine cooling. Easy-to-operate instruments provide quick scale readings.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Benchtop - Brix						
0% to 95%, 1.3000 to 1.7000	±0.15, ±0.0003 RI	No	Film, Glass, Liquids, Plastic	VEE GEE	C10	**9RY63**
Handheld - Aqueous Solutions						
-50° to 0°C Ethylene Glycol, -50° to 0°C Propylene Glycol, 1.10 to 1.40 Battery Acid	±0.01	Yes	Measures the Concentration of An Aqueous Solution By Measuring Its Refractive Index	VEE GEE	CTX-1	**36TY16**
0% to 28% NaCl	±0.2%	No		VEE GEE	SX-2	**36TY13**
Handheld - Brix						
0% to 30%	0.1	Yes	Beverages, Food Sweeteners, Juices	Reichert	137530L0	**16D191**
0% to 50%	0.25	Yes		Reichert	137531L0	**8URH7**
0% to 20%	±0.1	Yes	—	VEE GEE	43012	**8CXU0**
0% to 10%	±0.1	No	Aqueous Solutions	VEE GEE	43009	**9F740**
0% to 10%	±0.1%	Yes	Sucrose	Extech	RF11	**4GGD6**
0% to 18%	±0.2%	Yes	Lubricants/Cutting Fluids	Extech	RF12	**4GGD7**
0% to 30%	0.0001, 0.1	Yes	Chemical, Food and Beverage, Industrial Cutting Fluids, Pharmaceutical	Reichert	13754000	**8AZF1**
0% to 32%	±0.2%	No	Aqueous Solutions	VEE GEE	43001	**8NDJ6**
0% to 32%	±0.2	Yes		VEE GEE	43002	**8CYA4**
0% to 32%	±0.2%	Yes	Sucrose (ATC)	Extech	RF15	**3MY56**
50% to 90%	0.2	Yes	Beverages, Food Sweeteners, Juices	Reichert	137533L0	**9HR18**
58% to 92%	±0.2%	No	Aqueous Solutions	VEE GEE	43005	**8RKX6**
0% to 50%	±0.5	No	—	VEE GEE	43015	**8CXU1**
Handheld - Industrial Fluids						
0° to -48°C Ethylene Glycol, 0° to -48°C Propylene Glycol, 0-61 Propylene Glycol, 0-70 Ethylene Glycol, 1.100-1.400 Electrolyte	0.55°C	Yes	Battery Electrolyte Specific Gravity And Charge Level, Concentration Of Ethylene Glycol And Propylene Glycol, Freeze Points Of Ethylene Glycol And Propylene Glycol	Reichert	137564L0	**16D196**
Ethylene Glycol Freeze Point: -60°F (59%) to 25°F (16%), Propylene Glycol Freeze Point: -60°F (63%) to 32°F (12%), Specific Gravity of Battery Acid: 1.15 to 1.30	±2%	Yes	Measures the Freezing Point of Automotive Coolants (Propylene Glycol and Ethylene Glycol) and Indicates the Specific Gravity of Battery Acid and Provides A Quick Reference of Battery Charge Condition	Extech	RF40	**3MY57**
32° to -60°F Ethylene Glycol, 32° to -60°F Propylene Glycol, 0-63 Propylene Glycol, 0-70 Ethylene Glycol, 1.100-1.400 Electrolyte Specifc Gravity	1°F	Yes	Battery Electrolyte Specific Gravity And Charge Level, Concentration Of Ethylene Glycol And Propylene Glycol, Freeze Points Of Ethylene Glycol And Propylene Glycol	Reichert	137584L0	**8TLK5**
1% to 60% Urea	±0.5%	No	Measures Diesel Exhaust Fluid	VEE GEE	URX-60	**36TY17**
Handheld - Salinity						
0% to 100% (Salinity), 1 to 1.07 (Specific Gravity of Seawater)	±1 ppt	Yes	—	VEE GEE	43036	**8CXU2**
0 to 100 ppt (Salinity)	±0.1%	Yes	Salt	Extech	RF20	**9PP82**

***** ATC = automatic temperature compensation.*

8GUP3

48ME39

16D201

Digital Refractometers

Compact, handheld meters raise the bar for performance and value. Conveniently measure the concentration of dissolved solids in a variety of applications including food processing, laboratory, waste, water, and machine cooling. Provide numeric readings for precise measurements.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Handheld - Brix						
0.0% to 62.0%, 1.3330 to 1.4465	±0.2%	Yes	Agriculture, Beer, Beverage, Food, Industrial, Wine	Reichert	13940000	**8GUP3**
0% to 50%	±0.2%	Yes	Brix, nD	VEE GEE	MDX-101	**48ME39**
0% to 100%	±0.2%	Yes	Chlorinity, nD, Seawater, Specific Gravity	VEE GEE	MDX-202	**48ME43**
0% to 95%	±0.1, 0.0001	Yes	Chemical, Cosmetic, Food and Beverage, Pharmaceutical	Reichert	13950000	**8RTH2**
Handheld - Industrial Fluids						
0.0 to 50.0 Diesel Exhaust Fluid (Urea)	0.1	Yes	Diesel Exhaust Fluid, Known As Def/ Adblue/Arla/Aus32	Reichert	13940013	**16D199**
0° to -54°C Windshield Washer Fluid, 0° to -57°C Ethylene Glycol, 1.000 to 1.463 Battery Electrolyte SG	0.003 SG Battery Electrolyte, 0.3°C Glycol, 1°C Windshield Fluid	Yes	Battery Electrolyte SG, Freeze Point of Ethylene Glycol, Freeze Point of Windshield Washer Fluid	Reichert	13940029	**16D202**
1.000 to 1.463 Battery Electrolyte SG, 32° to -60°F Propylene Glycol, 32° to -65°F Windshield Fluid, 32° to -70°F Ethylene Glycol	0.003 SG battery electrolyte, 0.5° F Glycol, 2° F Winshield Fluid	Yes	Battery Electrolyte SG, Freeze Point of Ethylene Glycol, Freeze Point of Propylene Glycol, Freeze Point of Windshield Washer Fluid	Reichert	13940014	**16D201**
Handheld - Salinity						
0% to 100%	±0.5%	Yes	Glycol°F/C: Prop/ Ethyl Freeze pt°F/C	VEE GEE	MDX-603F	**48ME48**

***** ATC = automatic temperature compensation.*

Find Buffer Solutions and ORP Standards on page 634 and on Grainger.com®

pH Testers

- LCD display
- Automatic buffer recognition
- Batteries included
- All items are 1, 2, or 3 pt. calibration

Description	pH Range	pH Accuracy	ATC*	Temp. Range	Temp. Accuracy	Brand	Mfr. Model	Item No.
Waterproof Palm pH Meter	0.00 to 14.00	±0.01	Yes	0° to 100°C, 32° to 212°F	±0.8°F	Extech	PH220-C	**5AY49**
Flat Surface Electrode	0.00 to 14.00	±0.01	Yes	-5° to 90°C,	±1.8°F	Extech	PH100	**1MN58**
Refillable pH Meter	0.00 to 14.00	±0.01	Yes	23° to 194°F	±1.8°F	Extech	PH110	**3UNV4**
Waterproof pH Testr 30	-1.00 to 15.00	±0.01	Yes	0° to 50°C, 32° to 122°F	±0.9°F	Oakton	WD-35634-30	**9KJ81**
Waterproof pHTestr 10 BNC	0.00 to 14.99	±0.02	Yes	0° to 50°C	—	Oakton	WD-35634-14	**9CYL2**
pH Meter	0.00 to 14.00	±0.1 Within 10°C of Calibration, ±0.2 Within 20°C	Auto 0.0° to 100.0°C or 32.0° to 212°F	0.0° to 100°C	±0.3°C (±0.6°F)	YSI	PH10A	**25JY93**
Economical pH Waterproof Pocket Meter	0.00 to 14.00	±0.1	Yes	—	±0.9°F	Oakton	3563405	**55EP42**

Automatic temperature compensation.

Conductivity, TDS, and Salinity Testers

- LCD display
- Auto temp. compensation, except 1ZKY6

Waterproof testers feature high-accuracy, multiranging sensors with auto power off, data hold, low-battery indication and replaceable electrode module. Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0. Batteries included.

Note: See page 628 for Conductivity Standards.

MULTIPARAMETER

1ZKY6 stores up to 25 readings. Dual-display shows selected parameter and temp.

5AY46 alerts user when electrode needs replacement and stores up to 25 readings. Electrode replacement alert. 3VXN7 includes pH buffers and conductivity standards.

56AT42 is a 3-in-1 tester that displays readings simultaneously. Intuitive interface gives self-diagnostic error messages.

Description	Electric Conductivity Range	Electric Conductivity Accuracy	TDS Range	TDS Accuracy	Salinity Range	Salinity Accuracy	Operating Temp. Range	Temp. Accuracy	Calibration	Brand	Item No.
Conductivity Meters											
TDS/Cond. Meter	0 to 19.99 mS/cm	±1% F.S.	0 to 19.99 ppt	±1% F.S.	—	—	32° to 122°FF	±0.9°F	1 point	Extech	**38W993**
Conductivity Meter	0 to 20 mS/cm	±1% Full Scale	—	—	—	—	32° to 122°F	±0.9°F	1 or 2 point	Oakton	**55EP43**
	0 to 1999 uS/cm	—	—	—	—	—	32° to 104°F	—	—	Ohaus	**45MJ03**
	0.0 to 199.9 uS/cm	—	—	—	—	—	32° to 104°F	—	—	Ohaus	**45MJ05**
TDS Meters											
TDS Meter	- 1999.9mV to + 1999.9 mV, '- 1999mV to + 1999 mV	—	0 to 10 ppt	±1% Full Scale	—	—	32° to 122°F	±1% full scale	1 or 2 points	Oakton	**55EP44**
	—	—	0 to 1000 mg/L	±2.5% F.S.	—	—	50° to 104°F	—	—	Ohaus	**45MJ09**
	—	—	0 to 1000 mg/L	±2.5% F.S.	—	—	50° to 104°F	—	—	Ohaus	**45MJ11**
Salinity Meters											
Salinity Meter	±1999mV	—	—	—	0.0 to 10.0 ppt	±1% Full Scale	32° to 122°F	±0.9°F/0.5°C	1 pt.	Oakton	**55EP45**
	—	—	—	—	0 to 10.00 ppt, 10.01 to 70.1 ppt	±2% F.S.	32° to 122°F	±0.9°F/0.5°C	1 pt.	Extech	**25KC69**
	—	—	—	—	0 to 80 ppt	—	50° to 104°F	—	—	Ohaus	**45MJ13**
Multiparameter Testers											
ExStik II TDS/ Cond./Salinity Pen	0 to 199.9 µS/cm, 200 to 1999 µS/cm, 2.00 to 19.99 mS/cm	±2% F.S.	0 to 99.9 ppm, 1.00 to 9.99 ppt, 100 to 999 ppm	±2% F.S.	0 to 99.9 ppm, 1.00 to 9.99 ppt, 100 to 999 ppm	±2% F.S.	32° to 149°FF	±1.8°F	1 point, 2 point, 3 point	Extech	**1ZKY6**
ExStik pH/TDS/ Cond./Salinity Pen	0 to 19.99 mS/cm	±2% F.S.	0.1 ppm (mg/L) to 9.99 ppt (g/L)	±2% F.S.	0.1 ppm (mg/L) to 9.99 ppt (g/L)	±2% F.S.	32° to 149°FF	±1.8°F/1°C	1 point, 2 point, 3 point	Extech	**5AY46**
ExStik pH/TDS/ Cond./Salinity Pen Kit	0 to 19.99 mS/cm	±2% F.S.	0 to 99.9 ppm, 1.00 to 9.99 ppt, 100 to 999 ppm	±2%	—	±2%	23° to 194°FF	±1.8°F/1°C	1 point, 2 point, 3 point	Extech	**3VXN7**
CTS Waterproof Pocket Tester	0 to 20.00 mS/cm	—	0 to 10.0 ppt	—	0 to 10 ppt	—	32° to 122°FF	—	1 to 3 point	Oakton	**55EP38**
PCTS Waterproof Pocket Tester	0 to 20.00 mS/cm	—	0 to 10.0 ppt	—	0 to 10 ppt	—	32° to 122°FF	—	2 to 3 point	Oakton	**55EP40**
Conductivity, Salinity, TDS	0 to 20 mS/cm	±2% F.S.	0 to 0.00002 ppm	±2% F.S.	0 to 10 ppt	±2% F.S.	—	±0.9°F	1 point	Oakton	**56AT42**

ORP, DO, and Chlorine Testers

- Waterproof
- For replacement sensors and accessories, go to Grainger.com

Range	Accuracy	Operating Temp. Range	Temp. Accuracy	Brand	Mfr. Model	Item No.
ORP Testers						
0 to ±1000mV	1mV	—	±0.9°F	Oakton	3563454	**55EP36**
-999 to 999mV	±4 mV	—	—	Extech	RE300	**3VZG3**
ORP Pen Tester						
-1100 to 1100mV	1mV ±1 LSD	32° to 122°F	±0.3°C/±0.6°F	YSI	ORP15A	**25JY94**
Dissolved Oxygen Tester						
0 to 200.0%	±2% FS	32° to 122°F	±1.8°F	Extech	DO600	**5AY42**
Chlorine Tester						
0.01 to 10.00 ppm	±0.02 ppm	23° to 194°FF	±1.8°F	Extech	CL200	**3MY51**

ORP Testers—Feature auto-off, memory, hold function, low-battery indicator, flat surface electrode, and replaceable electrodes. Auto electronic 1-pt. self-calibration with digital display and bar graph. IP57 floating housing. 25JY94 has an easy-to-read graphic display with on-screen instructions.

Dissolved Oxygen Tester—Has LCD with analog bar graph, salinity compensation up to 50 ppt, 1-pt. calibration, and adjustable altitude compensation up to 20,000 ft.

Chlorine Tester—Pocket unit quickly measures total residual chlorine in drinking and cooling water, wastewater, spas, and pools. Dual-display simultaneously shows ppm and temp. 1-pt. calibration.

Scan. Order. Done.
Details on page A1.

Find Electrodes on page 630 and on Grainger.com®

500mL Bottle 8ENE7

Conductivity Standards

- NIST Certified

Description	Container Size	Item No.
84umho/cm	500mL	**8ENE7**
447umho/cm	500mL	**9F454**
500umho/cm	1L	**9LFD4**
717umho/cm	1L	**8G148**
1000umho/cm	1L	**9F455**
1409umho/cm	1L	**9GT62**
1500umho/cm	500mL	**8UWK9**
2000umho/cm	1L	**8G150**
2765umho/cm	1L	**8ENE8**
3000umho/cm	1L	**8G151**
5000umho/cm	1L	**9LKP9**
8974umho/cm	500mL	**8ENE9**
12,856umho/cm	1L	**9RD29**
15,000umho/cm	500mL	**9WKA3**
100,000 umho/cm	1L	**9LKR0**

11L566

Handheld pH Meters

All models have automatic temperature compensation.

EXTECH

4FB74—Flip-up case provides an adjustable viewing angle. Includes pH mini-electrode, temperature probe, neck strap, and low-battery indicator.

4TXG4—Features automatic/selectable calibration, wide measuring range, and stores 200 sets of readings.

11L566—Dual-display features min./max., data hold functions, and auto power off. Stores 20M readings on SD card with date and time stamp that transfers directly into Excel. Includes pH electrode, temp. probe, SD card, (6) AA batteries, and case.

OAKTON

61UG49—Waterproof meter measures pH, ORP, and temperature. Memory of 500 data sets and backlit LCD. Includes electrode, calibration solutions, and (2) AA batteries.

793NE5—Waterproof meter measures ion concentration, mV, pH, and temperature. Has stability, calibration, and low-battery indicators. Includes LCD display, temperature probe and (3) AA batteries.

55EP30, 55EP32 and 55EP34—Waterproof meters with dual line LCD.

Description	pH Range	pH Accuracy	ORP Range	ORP Accuracy	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.
Extech									
pH Meter Kit	0.00 to 14.00	±0.02	-999 to 999mV	—	0° to 100°C, 32° to 212°F	0.8°F	5 pt	OYSTER-16	**4FB74**
pH/mV/Temp. Kit	-2.00 to 19.99	±0.02	-1999 to 1999mV	±0.15	0° to 100°C, 32° to 212°F	±1°F	3 point	PH300	**4TXG4**
pH/ORP/Temp. Kit	0 to 14	±0.02pH +2d	-1999 to 1999mV	±0.05% +2d	0° to 65°C, 32° to 149°F	±1.8°F/1°C	3 point	SDL100	**11L566**
Oakton									
pH 500 Meter	-2.00 to 16.00 pH	±0.01	-2000 to +2000 mV	±0.1 mV	–22 to 266°F, –30 to 130°C	±0.9°F	DIN up to 6, USA and NIST up to 5	35660-10	**61UG49**
pH Meter	0 to 14 pH	±0.01 pH	—	—	32° to 212° F	±0.9° F ±1 Digit	Automatic 1 to 3 Points	3561365	**793NE5**
pH Pocket Meter	-2.00 to 16.00	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt	3563416	**55EP30**
pH Flat-Tip Pocket Meter	-2.00 to 16.01	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt	3563446	**55EP32**
pH Spear-Tip Pocket Meter	-2.00 to 16.02	±0.01 +1 Digit	-1000 to 1000mV	—	—	±0.9°F	1 to 3 pt	3563452	**55EP34**

30XM71

21E905

Handheld Conductivity Meters

- Automatic temperature compensation
- Auto power off
- Include conductivity cell and batteries

21E905 has a protective rubber boot and comes with a conductivity probe K=1.0. 21E906 includes temperature probe K=1.0, calibration solutions, sample bottles, protective rubber boot, and carrying case.

Description	Electric Conductivity Range	Electric Conductivity Accuracy	TDS Range	TDS Accuracy	Salinity Range	Salinity Accuracy	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.
Extech											
pH/Cond/TDS Meter	0.00 to 199.9mS	+/-1.5% F.S.	0 to 100 ppm	+/-1.5% F.S.	0 to 100ppt	±1.5% F.S.	0° to 50°C, 32° to 122°F	±1°F	1 point, 2 point, 3 point	EC600	**4TXG5**
Conductivity Meter	2000 uS/20.00 mS/100 mS	+/-2% F.S.	1200 ppm/12000 ppm/66000 ppm	+/-2% F.S.	—	—	0° to 50°C, 32° to 122°F	±0.8°C	1 point	EC210	**30XM71**
Oakton											
Conductivity Meter	0 to 200 mS	1% F.S.	—	—	—	—	0° to 100°	(±) 0.5°C	Yes	WD-35604-00	**21E905**
Conductivity Meter Kit	0 to 200 mS	1% F.S.	—	—	—	—	0° to 100°	(±) 0.5°C	Yes	WD-35604-04	**21E906**
YSI											
Cond/Temp Meter	0 to 200 mS/cm (Auto Range)	—	0 to 100g/L, Constant Range 0.30 to 1.00	—	0 to 70 ppt	±1% of Reading or 0.1 ppt	-5° to +55°C	±0.2°C	Yes	PRO30	**25JZ03** *

*** Meter only.***

Handheld Dissolved Oxygen Meters

- Automatic temperature compensation
- Include DO probe and batteries, except 25JZ15 only includes batteries

5MLL6

Description	DO Range	DO Range Accuracy	Oxygen Concentration	Displayed Temp. Range	Temp. Accuracy	Calibration	Mfr. Model	Item No.
Extech								
DO Meter	0 to 20 mg/L	±0.4 mg/L	0 to 100%	0° to 50°C, 32° to 122°F	0.8°C	Fresh Air	DO210	**30XM73**
DO Meter	0 to 20 mg/L	±0.4 mg/L	0 to 19.9 mg/L	0° to 50°C, 32° to 122°F	±1.5°F	1 point	407510	**4KC32**
Multi-function Meter	0 to 200%	±1.5%	0 to 40 mg/L	0° to 50°C, 32° to 122°F	1°F	Auto	DO700	**4TXG6**
Oakton								
DO Meter	0 to 20 mg/L (ppm)	±0.30 mg/L	—	32° to 212° F	±0.9° F ±1 Digit	Air Calibration with Calibration Sleeve	3564305	**793NE8**
DO Meter	0.0 to 20 mg/L (ppm)	(±) 1.5% F.S.	0 to 200%	Yes	(±)0.5°C	Yes	WD-35643-10	**21E911**
YSI								
Conductivity/ DO Meter	0 to 50 mg/L	±2% of the reading or ±0.2 mg/L (Whichever is Greater up to 20 mg/L), ±6% of Reading from 20 to 50 mg/L	0 to 500%	-5° to 55°C	±0.3°C	—	Pro2030	**5MLL6**
DO Meter	0 to 50 mg/L	0 to 20 mg/L, ±2% of Reading or ±0.2 mg/L, 20 to 50 mg/L, ±6% of Reading	0 to 500% Air Saturation	-5° to 55°C EG11(0° to 45°C, DO Compensation Range for mg/L)	±0.2°C	Yes	Pro20	**25JZ15**
DO Meter	0 to 20 ppm	±2% of Reading or ±2% ppm	1 to 200%	-6° to 46°C, 21.2° to 114.8°F	±0.3°C ± 1 Digit	Back Up	ODO200CC-01	**35MM93**

Benchtop Water Quality Meters

Laboratory meters display selected parameter and temperature simultaneously. Automatic temperature compensation maintains reading accuracy.

PH METERS

Automatic buffer recognition for U.S. and NIST pH buffers.

Oakton—Measure pH, temperature, and millivolts (mV). Memory for 100 data points. Accepts any pH or ORP electrodes with a BNC connector. Kit 6CAU6 includes meter, a single-junction all-in-1 temperature/pH electrode, and AC adapter. Kit 6CAU7 includes meter, double-junction pH electrode, temperature probe, electrode holder, and AC adapter. For more Oakton electrodes, see page 630.

pH Range	pH Accuracy	Calibration	Brand	Mfr. Model	Item No.
pH Meters					
0-14	—	—	Thermo	2115101	**8U378**
—	—	—	Oakton	WD-35419-12	**6CAU8**
-2 to 14	0.01	3 Point	Thermo	STARA1110	**12L828**
—	—	—	Oakton	WD-35419-23	**6CAV2**
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-00	**6CAU5**
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-03	**6CAU6**
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-10	**6CAU7**
-2 to 16	±0.01	3 Point	Thermo	STARA1115	**12L829**
-2 to 20	0.01	5 Point	Thermo	STARA2110	**12L840**
-2 to 20	±0.01	5 Point	Thermo	STARA2115	**12L841**

Thermo—Orion Star meters have AUTO-READ that locks in readings. Each includes a Triode 3-in-1 pH/ATC probe.

PH/CONDUCTIVITY METER

6CAV4—Measures pH, mV, EC, and total dissolved solids (TDS). Autoranging automatically sets the best resolution for conductivity and TDS measurements. Automatic buffer recognition for both U.S. and NIST pH buffers. Includes pH electrode, conductivity/temperature probe, and probe stand.

CONDUCTIVITY METER

Read across 5 measurement ranges. Water-resistant membrane keypad.

6CAU6

pH Range	pH Accuracy	Electric Conductivity Range	Electric Conductivity Accuracy	Calibration	Brand	Mfr. Model	Item No.
pH/Conductivity Meter							
-1.99 to 16.00	±0.002	0.00 iS/cm to 200.0 mS/cm	±1% full scale	5 point	Oakton	WD-35413-00	**6CAV4**
Conductivity Meter							
—	—	0.00 uS/cm to 200.0 mS/c	±1% full scale	5 pt	Oakton	WD-35411-00	**6CAV3**

pH Process Electrodes

- Flat tip
- 0 to 14 pH measurement range

600 Series—High-quality electrodes provide compatibility for harsh applications. Configurable for general purpose applications, low ionic conditions, or samples containing HF (hydrofluoric acid).

Note: Additional cable lengths are available; see Grainger.com

8000 Series—Modular, flat surface, self-cleaning S8000 platform features high-temperature electrolyte and enhanced ERP (extended reference path) technology that protects the reference in the presence of heavy metals, proteins, silver, and sulfides. Double junction provides extra protection in dirty applications. Ryton PPS body.

16Z014

Application	Connector	Mfr. Model	Item No.
600 Series			
Replacement Electrode, Self-Cleaning	BNR	S660CD	**16Z014**
Replacement Electrode, Insertion	BNR	S656CD	**16Z019**
Replacement Electrode	BNR	S651CD	**16Z016**
8000 Series			
pH Electrode	TNR	S8000CD	**16Z025**

Hydrometers

DURAC

Made of lead-free ballast and glass. 12M017 features a built-in, mercury-free thermometer for measuring API. 8AMV6 is a dual-scale hydrometer used in the chemistry, pharmacology, food and beverage, starch, and similar industries. This serialized, plain form hydrometer is packaged with a multilanguage Statement of Accuracy indicating accuracy traceable to NIST. Use 8AVZ6 to determine specific gravity in battery acid. 46Z362, 13K183, and 46Z366 measure sodium chloride saturation of salt brines in food, fishing, and transportation industries.

Note: Enclosed thermometers should be used as a general reference only. For temperature-critical applications, a calibrated standard thermometer is recommended.

THERMCO

Individually serialized instruments are tested and calibrated by the manufacturer, and each is supplied with a statement of accuracy. Use a separate thermometer for taking temperature measurements, and correct for any temperature variations. Shatterproof polycarbonate construction.

VEE GEE

20KL66 provides battery acid testing. Includes thermometer, glass syphon tube, rubber bulb, nozzle, and clamp. 20KL54 gives the ratio of the mass of a solid or liquid to the mass of an equal volume of distilled water.

Application	Used For	Application	Used For
API	Petroleum products	Alcohol, Proof, or Ethyl Alcohol Proof	% ethyl alcohol
Baume	Syrups and other liquids denser than water	—	—
Salt	Aqueous Solution	Sodium Chloride	—
Specific Gravity	Density compared to water	Isopropyl Alcohol	% by volume

46Z362 13K183

Application	Scale	L	Accuracy	Scale Divisions	Range	Temp. Range	Std.	Mfr. Model	Item No.
Durac									
API	API	381 mm	+/-0.1°	0.1°	39/51°	0° to 150°F	NIST	B61823-0400	**12M017**
Baume & Specific Gravity for Liquids Heavier than Water	Specific Gravity and Baume	165 mm	+/-0.005 sp. gr; +/-0.5° Baume	0.005 sp. gr; 0.5° Baume	1.000/1.225 sp. gr and 0/25° baume	60° to 60°F	NIST	B61806-0800	**8AMV6**
Specific Gravity	Specific Gravity	165 mm	+/-0.005	0.005	1.150/1.300	77° to 77°F	NIST	B61809-0200	**8AVZ6**
	Specific Gravity	381 mm	+/-0.002	0.002	1.000/1.220	0° to 150°F	NIST	B61821-0400	**12L997**
Salt Brine	Salt Brine by Saturation	300 mm	+/-1%	0.01	10/100%	Salt Brine	NIST	B61800-0600	**46Z362**
	% by Weight Sodium Chloride	300 mm	+/-0.5%	0.50%	0/26.5% by Weight	60° to 60°F	NIST	B61809-0100	**13K183**
	Salt Brine by Weight	300 mm	+/-0.2%	0.0020	4/26.4%	Salt Brine	NIST	B61800-1000	**46Z366**
Thermco									
Baume	Baume	250 mm	—	0.2	0/25	—	NIST	ACC8525PC	**32FY93**
Specific Gravity	Specific Gravity	300 mm	—	0.002	1.000/1.220	—	NIST	ACC8540PC	**32FY73**
	Specific Gravity	300 mm	—	0.002	0.695/2.000	—	NIST	GW3244SET	**32GC81**
	Specific Gravity	300 mm	—	0.002	1.000/1.220	—	NIST	GW2540	**32GC39**
Salt	Salt	300 mm	—	1.0	0/100%	—	NIST	GW2511	**32GD46**
	Salt	300 mm	—	1.0	0/100%	—	NIST	ACC8511PC	**32FY76**
API ASTM	API ASTM	380 mm	—	0.1	39/51	0° to 150°F	NIST	GW055HLS	**32FZ51**
VEE GEE									
Syphon	—	180 mm	—	0.002	1.150/1.300	—	—	6605-5	**20KL66**
Specific Gravity	Specific Gravity	305 mm	—	0.002	1.000/1.220	—	—	6603-1	**20KL54**

9EZ17

9PVE5

Shown with Cap 8DRL0

6AGG5

1L Bottle 8RWM3

16Y955

4TXG7

Electrodes

- Find more electrodes and probes on Grainger.com

Oakton—9NNX5 and 8AD42 are for water with heavy metals, organics, and sulfites. 9EZ17 and 9GFM1 for dirty water, heavy metals, and organics. 8UN13 is for high and low sodium levels.

Thermo Scientific—AquaPro 8FP12 is a clog-resistant electrode and is good for environmental and field testing of water and wastewater samples.

8XGJ3 is environmentally friendly, meets RoHs requirements. Contains no lead, mercury, or other hazardous substances.

Sure-Flow 8DRL1, 9CT13, 9JFA8 and 8DRL0 are free-flowing. For use in dirty or viscous samples.

Triode 9TJM3 and 9ANU6 have built-in temperature sensors. Use with TRIS buffers and proteins.

Fluoride 6AGG5 measures free fluoride ions in aqueous solutions.

Sensorex—Double-junction models are recommended for dirty applications.

Extech—1MN59 measures for any application that requires direct contact such as food, paper, cement, and wet surfaces. 1H143 fits virtually any pH meter that accepts a BNC connector.

3VXH4 replacement refillable pH electrode module aids in eliminating the problem of limited electrode shelf life, contamination, and usage life.

YSI—Digital pH electrode for high accuracy laboratory measurements. Sensor can be moved from instrument to instrument while maintaining its calibration data; for use with YSI MultiLab meters. Use electrode in surface water, groundwater, coastal, aquaculture, and wastewater.

Description	Testing Parameter	pH Range	Body Material	Dia.	L	Junction	Tip Shape	Connector	Mfr. Model	Item No.
Oakton										
ORP Electrode	ORP		Epoxy	12mm	130 mm	Single	Round	BNC	35805-14	**9NNX5**
			ABS Plastic	26mm	152 mm	Double	Round	BNC	WD-35805-24	**8AD42**
pH Electrode		0-14 pH	Epoxy	12mm	130 mm	Double	Round	BNC	WD-35805-06	**9EZ17**
			Glass	12mm	130 mm	Double	Round	BNC	35805-04	**9GFM1**
	pH		Glass	12mm	130 mm	Single	Round	BNC	WD-35801-78	**8UN13**
Direct Connect Electrode			Glass	12mm	130 mm	Single	Spear Tip	BNC	WD-35804-06	**8ACJ1**
pH Electrode		—	Epoxy	12mm	130 mm	Double	Round	OAKTON Connector	WD-35641-51	**8TR48**
Waterproof pH Electrode with ATC		0-14 pH	Epoxy	12 mm	130 mm	Single	Round	BNC	WD-35808-71	**9CLF5**
	pH/Temp		Epoxy	12 mm	130 mm	Single	Round	BNC/ATC OAKTON Connector	WD-35811-71	**9PVE5**
pH Electrode	pH	0-14 pH	Epoxy	13/32	4.3 mm	Single	Round	BNC	WD-35805-05	**45FG85**
Thermo Scientific										
Electrode: pH			Epoxy	12mm	120 mm	Double, Wick	Standard	BNC	9156DJWP	**9FEG4**
			Epoxy	12mm	120 mm	Open double	Standard	BNC	9156APWP	**8FP12**
			Epoxy	12mm	120 mm	Double, Wick	Standard	BNC	GD9106BNWP	**8XGJ3**
Ceramic Junction pH Combination Electrode	pH	0-14	Epoxy	12mm	120 mm	Double, Sure-Flow	Standard	BNC	9165BNWP	**8DRL1**
pH Electrode			Glass	12mm	120 mm	Double, Sure-Flow	Standard	BNC	9172BNWP	**9CT13**
			Epoxy	12mm	120 mm	Double, Sure-Flow	Standard	BNC	8165BNWP	**9JFA8**
			Glass	12mm	120 mm	Double, Sure-Flow	Standard	BNC	8172BNWP	**8DRL0**
Electrode: pH			Epoxy	12mm	120 mm	Glass Fiber, Triode	Standard	BNC / Mini-DIN	8157BNUMD	**9TJM3**
			Epoxy	12mm	120 mm	Wick	Standard	BNC / Mini-DIN	9107BNMD	**9ANU6**
Fluoride Electrode	—	5 to 7	Epoxy	—	110 mm	Single	—	—	9609BNWP	**6AGG5**
Sensorex										
	ORP (REDOX)	—	Epoxy	12mm	150 mm	Single	Polished Tip	BNC	S500C-ORP	**16Y971**
			Glass	12mm	150 mm	Single	Round	BNC	SG201C	**16Y978**
			Epoxy	12mm	150 mm	Single	Round	BNC	S200C/BNC	**16Y955**
Electrode			Epoxy	12mm	150 mm	Double	Round	BNC	S200CD/BNC	**16Y956**
	pH	0-14 pH	Epoxy	6mm	150 mm	Single	Round	BNC	S900C	**16Y975**
			Epoxy	12mm	160 mm	Double	Spear Tip	BNC	S175CD/BNC	**16Y954**
			Epoxy	15mm	115 mm	Double	Flat	BNC	S450CD/BNC	**16Y970**
Self-Cleaning Electrode			CPVC	22.86 mm	76.2 mm	Double	Flat	BNR	S650CD	**16Z012**
Submersible Electrode	pH or ORP (REDOX)	—	CPVC	—	76.2 mm	Double	—	BNC	S653/25/BNC	**16Z018**
Extech										
Replacement Electrode			Polycarbonate	12mm	218 mm	—	Bulb	—	6015WC	**3YTJ4**
Mini Electrode	pH		Polymer	10mm	127 mm	—	Bulb	BNC	60120B	**1H143**
Replacement Electrode Module		0 to 14	Polycarbonate	16mm	38 mm	—	Flat	—	PH105	**1MN59**
Replacement Electrode	mV, pH, Temperature		Polycarbonate	12mm	218 mm	—	Bulb	—	PH305	**4TXG7**
Replacement Electrode Module	Conductivity, pH		Polycarbonate	16mm	38 mm	—	Flat	—	EC505	**5AY47**
	ORP/Redox	—	Polycarbonate	16mm	38 mm	—	Flat	—	RE305	**3VZG7**
Refillable Electrode Module	pH	0 to 14	Polycarbonate	16mm	38 mm	—	Flat	—	PH115	**3VXH4**
Replacement Electrode Module	Total Chlorine	—	Polycarbonate	16mm	38 mm	—	Flat	—	CL205	**3YEF4**
YSI										
			Plastic	12mm	120 mm	Fiber	Cylinder	Digital	103740Y	**25KC46**
	pH	0.0 to 14.0 (±0.004)	Plastic	12mm	120 mm	Fiber	Cylinder	Digital	103741Y	**25KC47**
			Plastic	12mm	120 mm	Fiber	Cylinder	Digital	103750Y	**25KC48**
Probe			Glass	12mm	120 mm	Platinum	Cone	Digital	103780Y	**25KC49**
			Stainless Steel	12mm	120 mm	—	—	Digital	301720Y	**25KC53**
	Conductivity	—	Epoxy	12mm	120 mm	—	—	Digital	301710Y	**25KC51**
			Epoxy	12mm	120 mm	—	—	Digital	301711Y	**25KC52**

Description	Container Size	Mfr. Model	Item No.
Labchem			
	500mL	LC140201	**8ET22**
Electrode Storage Solutions	1L	LC140202	**8RWM3**
	4L	LC140204	**8FY10**

Reagent and Dispenser
15F858

SMART Reagent System
4EWA3

Reagents for Water Quality Testing

- For use with colorimeters

Convenient, foil powder pack reagents come in a premeasured unit dose.

Description	For Use With	Brand	Item No.
Chlorine Testing, (250 Tests) Dispenser with Reagent Vial			
PD250 Dispenser, Free Chlorine	Colorimeter, Photometers	Lovibond	**15F858**
PD250 Dispenser, Total Chlorine	Colorimeter, Photometers	Lovibond	**15F861**
Chlorine Testing, DPD Indicator Powder, Free Chlorine Indicator Solution and Free Chlorine Buffer Solution			
Free Chlorine Reagent Set CL17 Analyzer	Colorimeter, Photometers	Lovibond	**15F863**
Chlorine Testing, Reagent			
DPD Free CL2 Reagent PP, 25 ml	Colorimeter, Photometers	Lovibond	**15F879**
DPD Free CL2 Reagent PP, 5 ml	Colorimeter, Photometers	Lovibond	**15F876**
DPD Total CL2 Reagent PP, 25 ml	Colorimeter, Photometers	Lovibond	**15F882**
DPD Total CL2 Reagent PP, 5 ml	Colorimeter, Photometers	Lovibond	**15F874**
Powder Packs, Reagent			
Iron TPTZ Reagent PP, 10 ml	Colorimeter, Photometers	Lovibond	**15F886**
Molybdenum 1 LR Reagent, 20 ml	Colorimeter, Photometers	Lovibond	**15F897**
Sulfamic Acid PP	Colorimeter, Photometers	Lovibond	**15F925**
Sulfate 4 Reagent PP, 25 ml	Colorimeter, Photometers	Lovibond	**15F921**
Reagent Sets			
Ammonia HR Reagent Set	Colorimeter, Photometers	Lovibond	**15F960**
Ammonia LR Reagent Set	Colorimeter, Photometers	Lovibond	**15F959**
Iron (II,III) Soluble Reagent Set	Colorimeter, Photometers	Lovibond	**15F949**
LR Molybdate Reagent Set	Colorimeter, Photometers	Lovibond	**15F951**
Molybdate HR PP Reagent Set, 10 ml	Colorimeter, Photometers	Lovibond	**15F948**
Phosphonate Reagent Set	Colorimeter, Photometers	Lovibond	**15F946**
Silica LR Reagent Set, 10 ml	Colorimeter, Photometers	Lovibond	**15F961**
Total Phosphate Reagent Set	Colorimeter, Photometers	Lovibond	**15F945**
SMART Reagent System			
Chlorine/Bromine/Iodine	1910 Multi-test Colorimeter	LaMotte	**4EWA3**
Copper	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA4**
Nitrate Nitrogen (Low Range)	1910 Multi-test Colorimeter	LaMotte	**4EWA7**
Nitrite Nitrogen (Low Range)	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA8**
pH	1910 Multi-test Colorimeter	LaMotte	**4EWC5**
Phosphate (Low Range)	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWA9**
Sulfide (Low Range)	6CAT1 (or 1910) SMART 3 Colorimeter	LaMotte	**4EWC1**

6CAT1

3YRT2

Colorimeters

Include sample cells, reagents, and batteries. For cuvettes, go to Grainger.com.

Note: Copper Colorimeter 15F844 and IR interface module 15F849 are available on Grainger.com.

Lovibond Single Parameter—Improve resolution for a specified range, account for known interferences, and calibrate to any government standard such as NIST or ISO. Accuracy: ±2% full scale. Memory: 16 data sets.

LaMotte Multiparameter—Allows 25 users tests with over 75 preprogrammed tests, including absorbance and %T modes. Memory: 500 data sets.

Lovibond Multiparameter—Offers more than 90 preprogrammed methods from alkalinity through zinc, and an additional 20 methods can be user-defined. Memory: 1000 data sets.

Type	Range	Brand	Mfr. Model	Item No.	REAGENT* REFILLS
Manganese	0.01 to 0.7 mg/L (Powder Reagents)	Lovibond	276105	**15F834**	3VXV7
Phosphate	0.06 to 2.5 mg/L (Powder Reagents)	Lovibond	276045	**15F840**	3VXU4
Silica	1 to 90 mg/L (Powder Reagents)	Lovibond	276116	**15F845**	3VXW1
Chlorine	0.02 to 2.00 and 0.1 to 8.0 mg/L (Powder, Tablet Reagents)	Lovibond	276025	**15F829**	3VXT4, 15F878, 3VXT7, 15F881
Chlorine	0.02 to 2.00 pH and 0.1 to 8.0 mg/L (Powder Reagents)	Lovibond	276010	**15F828**	3VXT4, 3VXT7
Multi-Parameter	0 to 4 ppm	LaMotte	1910	**6CAT1**	4EWA3
Multi-Parameter	—	Lovibond	214020	**3YRT2**	3YEK4

** Reagent refills available on Grainger.com.*

Turbidity Meters

Testers determine cloudiness of water; for drinking water, wastewater, and environmental applications.

Note: Calibration solutions available on Grainger.com.

490W91 and 490W92—LCD display and 500-point memory. Lithium-ion rechargeable battery.

9TD12—Sealed optical system has infrared light source and 4-point push-button calibration. Includes 4 primary standards and 3 cuvettes with light-shield caps.

9NXP3—Has signal averaging and simple calibration.

25KC71—2-point calibration with LCD display. Auto power off.

9TD12

Description	Turbidity Range	Turbidity Resolution	Brand	Mfr. Model	Item No.
Waterproof Turbidity Meter, EPA	0 to 2000 NTU	0.01, 0.1, 1.0 NTU	LaMotte	1974-T	**490W91**
Waterproof Turbidity Meter, ISO	0 to 2000 NTU	0.01, 0.1, 1.0 NTU	LaMotte	1974-I	**490W92**
Waterproof Turbidity Meter	0 to 1000 NTU	0.01, 0.1, and 1 NTU	Oakton	WD-35635-00	**9TD12**
Portable Turbidimeter	100 to 1100 NTU	0.01 to 1100 NTU	Lovibond	194200	**9NXP3**
Turbidity Meter	0 to 50.00, 50 to 1000 NTU	0.01 NTU	Extech	TB400	**25KC71**

Water Quality Test Kits

Provide quick analysis of various water quality parameters. Additional refills are available on Grainger.com.

Parameter	Range	Test System	No. of Tests	Mfr. Model	KITS Item No.	REAGENT REFILLS Item No.
Alkalinity	4 to 200 ppm	Titrimetric	50	4491-DR-01	**4EVT3**	**4EWE6**
Caustic	1 Drop 0.1% or 1% NaOH	Titrimetric	50	7181-01	**4EVY7**	—
Chlorine	0.2 to 3.0 ppm	Colorimetric	50	3308-01	**4EVX5**	**4EWC9**
Chlorine	0 to 200 ppm	—		R-4497	—	**4EWE7**
Chlorine Bleach	0.2 to 10%	Titrimetric	50	7105-03	**4EWD2**	**4EWE9**
Total Coliform	Presence/Absence	—	1	4-3616	**3UVC9**	—
Copper	0.05 to 1.0 ppm	Colorimetric	50	3619	**4EVY2**	**4EWE1**
Dissolved Oxygen	0.2 to 10 ppm	Titrimetric	50	5860-01	**4EVY6**	**4EWE8**
Hardness, Total	4 to 200 ppm	Titrimetric	50	4482-LI-02	**4EWC8**	**4EWE5**
Hardness - Total and Calcium	4 to 200 ppm	—	50	4824-DR-LT-01	**3VER1**	**32WC34**
Iron	0.5 to 10.0 ppm	Colorimetric	50	4447-01	**4EVX7**	**4EWD6**
Nitrate-Nitrogen	1 to 15 ppm	Colorimetric	50	3354-01	**4EVX9**	**4EWD9**
pH	3.0 to 10.5	Colorimetric	100	5858-01	**4EVY5**	**4EVZ1**
Phosphate	1.0 to 10 ppm or 10 to 100 ppm	Colorimetric	50	4408-01	**4EWA2**	**4EWD7**
Pool Management	Acid Demand Calculator, Free and Total Chlorine 0.2 to 3.0 ppm, pH 6.8 to 8.2, Total Alkalinity and Ca Hardness 60 to 400 ppm	Colorimetric and Titrimetric	20 Alkalinity and Ca Hardness, 50 Chlorine	3368-01	**4EVY1**	—
QAC	10 to 500 ppm	Titrimetric	50	3043-DR-01	**4EWA1**	**4EWD4**
Sulfide	0.2 to 20 ppm	Colorimetric	50	4456-01	**4EVX8**	**4EWD8**

Chlorine
4EVX5

Dissolved Oxygen
4EVY6

3UDD2

39J088

MICRO ESSENTIAL LABORATORY

pH Test Paper, Pencil, and Strips

Standard Test Kit includes two 15' L rolls of 7/32" W tape; one 0.0–6.0 pH roll and one 6.5–13.0 pH roll, with two color charts.

pH Pencil gives 30-sec. color match of acid or alkali residue on paper, lumber, concrete, cement, plasterboard, painted and prepainted surfaces, textile, ceramics, and skin.

Strips give instant, easy-to-read results, with bright, long-lasting single-color matches across the entire pH range.

Description	Range	W	No. of Tests	Item No.	Pkg. Qty.
pH Paper					
Mikro, PHydrion	0.0 to 13.0 pH	5/32 in	100	**3UDD2**	1
Mikro Refill, PHydrion	0.0 to 13.0 pH	5/32 in	500	**3UDD5**	5
Standard	0.0 to 13.0 pH	7/32 in	100	**3UDD8**	1
Standard Kit Refill, PHydrion	0.0 to 6.0 pH	7/32 in	500	**3VDT7**	5
	6.5 to 13.0 pH	7/32 in	500	**3VDU1**	5
Standard Test Kit	1.0 to 13.0 pH	7/32 in	100	**3VDT4**	1
Midget Dispenser Kit	0.0 to 14.0 pH	7/32 in	600	**3VDZ4**	1
Jumbo	0.0 to 13.0 pH	1/2 in	300	**3UUT1**	1
Jumbo Refill	0.0 to 13.0 pH	1/2 in	300	**3UUT4**	1
pH Pencil					
Pencil	0 to 13 pH	—	3	**9L411**	3
pH Strip					
Peracetic Acid	0/10/30/60/80/160 ppm	1/4 in	50	**39J088**	1
Hydrion Spectral	0 to 14 pH	1/4 in	1	**6EGF0**	100
	5.5 to 8 pH	1/4 in	1	**6EGF1**	100
	6.5 to 13 pH	1/4 in	1	**6EGF2**	100
	5 to 9 pH	1/4 in	1	**6EGF3**	100
	0 to 6 pH	1/4 in	1	**6EGF4**	100
Test Papers, 15 ft Roll					
Chlorine	10/50/100/200 ppm	5/32 in	100	**3UDC2**	10
Quaternary Ammonium	0/100/200/300/400 ppm	7/32 in	100	**3UDA5**	10
Quaternary Ammonium, Single Dispenser	0/200/400/600/800/1000 ppm	7/32 in	100	**3UDF5**	10
Quaternary Ammonium, Double Dispenser	0/200/400/600/800/1000 ppm	7/32 in	100	**3UDE5**	10
Test Paper Refills, 15 ft Roll					
Chlorine	10/50/100/200 ppm	5/32 in	100	**3UDC5**	10
Quaternary Ammonium	50/100/200/400 ppm	7/32 in	100	**3UDA8**	50
	0/200/400/600/800/1000 ppm	7/32 in	100	**3UDG2**	50

RICCA CHEMICAL COMPANY

pH Test Strips

Get instant pH measurements by dipping strips into solution.

45D963

Range	Item No.	Pkg. Qty.
0 to 6 pH	**45D964**	100
0 to 14 pH	**45D963**	100
2 to 9 pH	**45D967**	100
4.5 to 10 pH	**45D965**	100
7 to 14 pH	**45D966**	100

ITS

Hazardous Chemical Test Kits

4KEJ5

Easy-to-use, color-change test strips quickly identify chemicals. 9CHX5 tests for lead in paint.

Description	Range	No. of Tests	Mfr. Model	Item No.
Arsenic Test Kit	0, 5, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 400, 500 ppb	100	481396	**4KEJ4**
	3, 6, 8, 10, 12, 15, 19, 24, 30, 40, 50, 60, 70, 80, Greater Than80	50	481297-I	**4KEJ5**
Paint Test Kit	0.05/0.2/0.4/0.6/0.8/1.0/1.2 mg/sq cm	2	487925-V	**9CHX5**

LSS

pH Wide Sticks

Give a quick 1-dip, single-color match for each pH value. The extra long and wide strips ease use when wearing gloves and help keep you away from potentially hazardous spills.

Range	L	W	Item No.	Pkg. Qty.
0.0 to 13.9 pH	9 in	1 in	**8ZDP7**	25

LaMotte

ITS

Chemical Test Strips

Packaging includes a color chart. Paper and Refills come in 15-ft. lengths. Strips make onsite testing easy and economical.

Testing Parameter	Range	No. of Tests	Brand	Item No.
Ammonia	0 to 6 ppm	25	LaMotte	**41V897**
Chlorine	10/50/100/200 ppm	200	LaMotte	**4EWC7**
Chlorine Dioxide	0/10/25/50/100/250/500 ppm	50	LaMotte	**4EVX3**
Chlorine Sanitizer	0/1.0/3.0/5.0/10/12/15/20/40/80 ppm	50	ITS	**3VFJ4**
Chromium	Less Than 0.1/0.25/0.5/1/2.5/5/10/25/50 ppm	50	ITS	**3UCX8**
Copper	0/0.05/0.1/0.2/0.4/1/2 ppm	25	ITS	**3UCW2**
Free Chlorine	0/0.05/0.1/0.2/0.4/0.6/0.8/1.2/1.5 /2.2/6.4/Greater Than 6 ppm	50	ITS	**3UEH2**
	0/0.25/0.5/1/2/3/4/5/6/7/8/9/11/15/20/25 ppm	50	ITS	**3VEU7**
	0/0.5/1/3/10 ppm	25	LaMotte	**4EVZ5**
	0/25/50/100/200/300/400/500/750 ppm	50	ITS	**3VEV1**
	0/50/100/250/500/800 ppm	50	LaMotte	**4EVX4**
	0.0/0.05/0.1/0.2/0.4/0.5/0.8/1.0/2.0/5.0 ppm	50	ITS	**3VET7**
	0 to 10 ppm	25	LaMotte	**41V898**
	1.0/5/10/20/40/80/120 ppm	50	ITS	**3VEU4**
Free Chlorine, pH, Total Alkalinity, Total Chlorine, Total Hardness	pH: 6.2/6.8/7.2/7.8/8.4, Total Alkalinity: 0/40/80/120/180/240 ppm, Total and Free Chlorine: 0/0.5/1/2/4/10 ppm, Total Hardness: 0/25/50/120/250/425 ppm	50	ITS	**3UCX5**
Free Chlorine, Total Chlorine	0.0/0.1/0.2/0.5/1.0/2.5/5.0 ppm	50	ITS	**3VFK6**
Hydrogen Peroxide	0/15/30/50/90 ppm	25	LaMotte	**4EVU6**
Hydrogen Sulfide	0/0.3/0.5/1.0/2.0 ppm	30	ITS	**3VFJ7**
	0/5/10/20/30/40/50/60/80 ppm	50	ITS	**3VFK1**
Iodine	0/5/10/15/20/30/40/50/75/100 /150/200/250/300 ppm	50	ITS	**3VEW4**
	0.0/0.02/0.05/0.1/0.2/0.3/0.4/0. 5/1.0/2.0/3.0/4.0/5.0 ppm	50	ITS	**3VEW1**
	12/25/50/100 ppm	200	LaMotte	**3UEG5**
Iron	0.0/0.02/0.05/0.1/0.2/0.3/0.5 /0.75/1.0/2.0/5.0 ppm	30	ITS	**3VEX1**
Lead	0 to 15 ppb	2	ITS	**3VFL4**
Lead Solid	0/100/200/300/400 ppm	5	ITS	**3VEX4**
Manganese	0/0.05/0.1/0.2/0.4/1.0/Greater Than 1.6 ppm	24	ITS	**3UEG8**
Nitrate	0/20/40/80/160/200 ppm	25	LaMotte	**41V896**
	0/5/10/25/50 ppm	50	LaMotte	**4EVU9**
Nitrate, Nitrite, pH, Total Alkalinity, Total Hardness	Nitrate: 0/20/40/80/160/200 ppm, Nitrite: 0/0.5/1/3/5/10 ppm, pH: 6 6.5/7/7.5/8/9, Total Alkalinity: 0/40/80/120/180/240 ppm, Total Hardness: 0/30/60/120/180 ppm	25	ITS	**3UCY8**
Nitrate, Nitrite Nitrogen	Nitrate: 0.0/0.5/2.0/5.0/10/20/50; Nitrite: 0.15/0.3/1/1.5/3/10 ppm	50	ITS	**3VEX7**
	Nitrate: 0.0/0.5/5/10/20; Nitrite: 0.15/0.3/1.0/3.0/10.0 ppm	30	ITS	**3VEY1**
Ozone	0.0/0.05/0.1/0.2/0.3/0.4/Greater Than 0.5 ppm	50	ITS	**3UCW5**
Peracetic Acid	0/10/20/50/85/160 ppm	50	LaMotte	**4EVX2**
Peroxide	Less Than 0.5/2.0/5.0/10/25/50/100 ppm	50	ITS	**3VEW7**
Peroxide Check	0.05/0.3/0.5/1.0/2.0/4.0 ppm	50	ITS	**3VFL7**
Pesticide	3 to 4 ppm	2	ITS	**3TRC6**
pH, Total Alkalinity	pH: 6.0/6.5/7.0/7.5/8.0/8.5/11.0, Total Alkalinity: 0/40/80/120/180/240/720 ppm	50	ITS	**3VEY7**
Phosphate	0/200/400/600/1000/2500 ppb	50	ITS	**21VK57**
QAC	50/100/200/400 ppm	100	LaMotte	**4EVU1**
Sensafe Free Chlorine	0.0/0.05/0.1/0.2/0.4/0.8/1.0/1.2/1.6/2.0/ 3.0/4.0/5.0/6/7/8/9/11/15/20/25 ppm	50	ITS	**3VFK3**
Silver	50/100/250/500/1000 ppb	50	ITS	**3UCW8**
Total Chlorine	0/5/10/20/30/40/60/80 ppm	50	ITS	**3VEV7**
	0.0/0.05/0.075/0.1/0.125/0.15/0.17 5/0.2/0.3/0.5/0.8/4.0/10.0 ppm	50	ITS	**3VFK9**
Total Hardness	0/40/80/120/180/250/425/1000 ppm	50	ITS	**3VEZ4**
	0/40/80/120/180/250/425/1000 ppm	30	ITS	**3VEZ7**
Zinc	0/2/5/10/20/40/100 ppm	50	ITS	**3UCY5**

Global Water
a xylem brand

Automatic Water Samplers

- Peristaltic sampling pump: flow rate 1Lpm at 4 ft. head
- 15 sample sizes from 15mL to 2L
- Pickup hose: 15-ft. reinforced PVC tubing, ¼" I.D.
- Stainless steel strainer

Description	Mfr. Model	Item No.
Samplers		
Single Bottle Water Sampler, 2-gal.	WS700	36K444
Refrigerated Single Bottle Water Sampler, 2-gal.	WS700R	36K448
Dual Bottle Water Sampler, (2) 1-gal.	WS750	36K445
Sampler Accessories		
Stormwater Sampling Kit; Includes Auto-Drain Rain Gauge, Flow Sensor, Rain Sensor Rain Sensor, Flow Sensor, and Rain Gauge	WSSWK	8EPH9
Sample Bottle,	00-835	8NK17
Flow Probes		
Flow Probe with 2.5 to 5.5 ft. Extendable Handle	FP311	36K455
Flow Probe with 3.7 to 6 ft. Extendable Handle	FP111	36K453
Flow Probe with 5.5 to 14 ft. Extendable Handle	FP211	36K454

Systems take composite and discrete samples for wastewater, industrial, and environmental applications. Size and interval controls set the individual time-weighted composite samples or full-bottle discrete grab samples. An external-trigger mode controls sampling from a water level sensor, rain sensor, or other external source (not included). Automatic 15-sec. backflush cycle clears debris from the strainer and empties water from the hose to prevent contaminating the next sample.

Dual-bottle sampler has 2 pumps and allows user to set sampling mode for each pump and bottle individually.

36K445

9ACZ5

BRIGHT DYES

Biodegradable Dye Tracers

Fluorescent dyes make water flow patterns easy to see, track, and map in lakes, reservoirs, septic systems, piping, and other bodies of water. Bright, vivid colors are easily detected in clear, deionized water in the range of 100 ppb of active ingredient—or just 10 ppb under a handheld laboratory black light (UV).

Description	Size	Color	Concentration @ 1 PPM	Item No.
Dye Tracer Liquid	16 oz	Red	1 pt to 6250 gal	8NDU0
	16 oz	Yellow/Green	1 pt to 12,500 gal	8ACL5
	1 gal	Red	1 pt to 6250 gal	8RF22
	1 gal	Yellow/Green	1 pt to 12,500 gal	8TNY0
	1 gal	Blue	1 pt to 12,500 gal	9JY17
Dye Tracer Powder	1 lb	Yellow/Green	1 lb to 120,000 gal	8CV78
	1 lb	Red	1 lb to 60,400 gal	9DTY7
	1 lb	Blue	1 lb to 120,000 gal	8ZE47
Dye Tracer Tablet	200 Tablets	Blue	20 gal/Tablet	9CH32
	200 Tablets	Orange	35 gal/Tablet	8UL06
	200 Tablets	Red	60 gal/Tablet	8ACL4
	200 Tablets	Yellow/Green	60 gal/Tablet	9ACZ5

Dynalon Labware
quality . value . service

Dippers

- Will not rust or corrode

Lightweight, durable dippers for collecting samples from streams, tanks, drums, and other hard-to-reach areas. HDPE dippers provide excellent chemical resistance—and float. Molded graduations and dual-pouring spouts to make it easier to take samples from large tanks.

3KWF6

Capacity	Graduation Subdivisions	Handle	Item No.
500 mL	50 mL	3 ft	3KWF6
500 mL	50 mL	6 ft	3KWF9
500 mL	50 mL	12 ft	3KWG3
1,000 mL	100 mL	6 ft	9PWR1
1,000 mL	100 mL	12 ft	9J093

3KWL9

CONBAR Bomb Samplers

Use to extract liquid samples at specific depths from tanks, lakes, ponds, wells, etc. Composite sampler can be used to collect an average sample of a tank's contents.

Description	Cap.	Dia.	L	Item No.
Stainless Steel	125 mL	1 ⅛ in	15 in	3KWL6
Stainless Steel	1,000 mL	2 ½ in	22 in	3KWL9
Brass/Bronze	16 oz	2 ½ in	12 in	3KWJ3

SUPPLIER DIVERSITY

ecobailer

9MFC5

Disposable Bailers

- For nylon twine, see page 1097
- For sample vials, see page 657

EcoBailer—Clear PVC models allow visual inspection of well samples. They sink rapidly without requiring additional weighting material. Longer bottom spout helps prevent silt from interfering with check ball and causing potential leakage. A custom emptying device regulates discharge flow. High-density polyethylene models are designed with a thick tube wall that is less likely to bend when handled.

EcoBailer Pro—Hydrodynamic design with wide spout opening for fast sink rate while minimizing dissolved oxygen in the well sample. Easy-to-handle emptying device provides more accurate control of liquid flow into the sample bottle. Pour spout and ball retainer allow easy pouring from top of bailer.

Cap.	Dia.	L	Item No.	Pkg. Qty.
EcoBailer				
Clear PVC				
67 mL	7/10 in	12 in	9EWZ2	48
199 mL	7/10 in	36 in	8UTV6	24
347 mL	1 ½ in	12 in	9MFC5	48
1,027 mL	1 ½ in	36 in	8D591	24
1,365 mL	1 ½ in	48 in	8DA80	24
5,100 mL	3 9/10 in	36 in	9MFD0	8
Clear PVC, Weighted				
1,027 mL	1 ½ in	36 in	8DA81	24
1,365 mL	1 ½ in	48 in	9NRJ9	24
High-Density Polyethylene				
347 mL	1 ½ in	12 in	9KEY8	48
513 mL	1 ½ in	18 in	9LGC2	48
1,027 mL	1 ½ in	36 in	8D590	24
High-Density Polyethylene, Weighted				
513 mL	1 ½ in	18 in	9R130	48
Polyethylene, Weighted				
1,027 mL	1 ½ in	36 in	9EWY9	24
EcoBailer Pro				
Clear PVC				
1,027 mL	1 ½ in	36 in	36C774	24
1,365 mL	1 ½ in	48 in	36C775	24
Clear PVC, Weighted				
1,027 mL	1 ½ in	36 in	36C776	24
1,365 mL	1 ½ in	48 in	36C777	24
Clear PVC, Hydrocarbon Recovery				
1,027 mL	1 ½ in	36 in	36C779	24
VOC Tips				
Tip for EcoBailer Pro Bailers	1 ½ in	3 in	36C778	24

WHEATON®

Drum Sampler

Draws and collects sample in one step to simplify sampling unknowns from drums and tanks. Filling ports are located above the screw-in bottle for a complete fill without trapped air. Chemical-resistant polypropylene sampler protects users from exposure to drum contents. 43½"L. Complete with 125mL borosilicate glass bottle with PTFE-lined cap.

Description	Item No.
E-Z Sampler	8Z958

Over 47,000 Lab Chemicals available on Grainger.com

Ensure that your laboratory has all of the chemical supplies and equipment necessary to perform accurate experiments and testing. Find a comprehensive line of buffers, acids, bases, solvents, and reagents. Shop our lab chemicals, supplies, equipment, and instruments to help you get your job done accurately and safely. Go to grainger.com/lab chemicals

Chemicals (LSS)

Concentration	Container Size	Item No.
pH Buffer Solutions		
pH 1.0	500 mL	9NW46
pH 1.07	500 mL	8G328
pH 1.68	4 L	3TWH3
pH 2.0	20 L	8G639
pH 2.0	500 mL	9LL54
pH 3.0	4 L	9JAX1
pH 4.0	500 mL	4YMH7
pH 4.0	4 L	4YMH8
pH 4.0	20 L	8YNV5
pH 5.0	500 mL	8FZK6
pH 6.0	500 mL	8FZL0
pH 6.40	500 mL	8FKK5
pH 6.86	10 L	8XNY7
pH 7.0	500 mL	4YMH9
pH 7.0	4 L	8GHD4
pH 7.0	20 L	8GHD5
pH 7.38	500 mL	9LLR4
pH 7.40	4 L	8GGT2
pH 7.70	20 L	9AMX9
pH 8.0	500 mL	8TW85
pH 9.0	500 mL	8FX51
pH 9.18	4 L	8YM72
pH 10.0	500 mL	4YMJ1
pH 10.0	4 L	9LMR9
pH 10.0	20 L	8RZA2
pH 11.0	500 mL	8GE98
pH 12.0	1 L	8XNX2
pH 12.45	500 mL	8VY35
pH 13.0	10 L	8GEA0
Buffer Solution Kits		
10.0, 7.0, pH 4.0	20 mL	7YL05
10.0, 7.0, pH 4.0	500 mL	7Y379
ORP Standards		
200 mV	500 mL	8ELA2
475 mV	500 mL	9UEL4
400 mV	500 mL	9APL4

Chemicals (LabChem)

Description	Container Size	Item No.
Acetic Acid, Glacial, ACS	2.5 L	9LKN9
Acetone	1 gal	6CHJ2
Acetonitrile, HPLC	4 L	8MWK1
Ammonium Molybdate, Tetrahydrate, ACS	500 g	8EKM0
Citric Acid, 10% w/v	4 L	8FV46
EDTA, 0.0575M (0.115N)	4 L	8NLH9
Ferric Chloride Hexahydrate, ACS	500 g	9LUF3
Ferrous Ammonium Sulfate 0.4N (0.4M)	4 L	8XMW6
Glucose-Glutamic Acid	6 mL	8PWY6
Glycerin	1 L	8G477
Hexanes, ACS	4 L	8ZP15
Hydrochloric Acid, ACS	2.5 L	8WAU4
Hydrogen Peroxide, 30% w/w	4 L	8TWA8
Iodine, 0.1N (0.05M)	4 L	8V654
Isopropanol	1 gal	6CHJ4
Isopropyl Alcohol, ACS (2-Propanol)	20 L	5CVX4
Isopropyl Alcohol, 70% v/v	4 L	5CVU5
	20 L	9LLP4
Kerosene, Odorless	4L	8YMN3
Methanol, HPLC	4 L	8MWK0
Murexide Indicator, Dry Form in NaCl	500 g	9APM8
Nitric Acid, ACS	2.5 L	8WCK3
Perchloric Acid, 0.1N (0.1M)	4 L	9GU87
Phosphoric Acid, ACS	2.5 L	8NLF5
Potassium Chloride, ACS	500 g	4YMG1
Potassium Hydroxide, 0.5N (0.5M) in Ethanol	4 L	8XND3
Potassium Iodide, ACS	500 g	4YMF7
Reagent Alcohol	4 L	9VZW8
Silver Nitrate, 0.1N (0.1M)	4 L	5CVU8
Sodium Hydroxide, 10% w/w	200 L	9WT46
Sodium Thiosulfate, 0.1N (0.1M)	4 L	4YMG7
Sulfuric Acid, ACS	2.5 L	8ELC6
TCLP Extraction Fluid #2	20 L	8GGR2
TISAB II	4 L	8EPE5
Toluene, ACS	4 L	9CZ24
Water, Deionized (ASTM Type II)	4 L	4YMH2
	10 L	8FV27
	20 L	4YMH3
	200 L	8GDA7
Xylenes, ACS	4 L	8W903

Chemicals (Sigma-Aldrich)

Description	Container Size	Item No.
Ammonium Formate	25 g	45ZM90
Acetone	500 mL	45ZZ78
Ammonium Citrate Dibasic	500 g	45ZR87
Antifoam B Emulsion	500 mL	45ZY03
Bromocresol Green	5 g	45ZW10
Bioxtra Viscous Liquid	500 mL	45ZX98
Bovine Serum Albumin	100 g	45ZV32
Butanol	2 L	46AA39
Carbon Disulfide	1 L	46AA26
Cycloheximide Solution	10 mL	45ZL76
Dichloromethane	100 mL	45ZZ93
DL-Dithiothreitol	1 g	45ZF02
Dimethyl Sulfoxide	500 mL	46AA03
Dioctyl Sulfosuccinate	500 g	45ZE58
Dodecane	500 mL	45ZW01
Ethyl Acetate	2 L	46AA29
Ethyl Alcohol Pure 200 Proof	1 L	46AA23
Histopaque 10771	100 mL	45ZW21
Hydranal-Coulomat A Anolyt	500 mL	45ZK70
L-Cysteine	100 g	45ZU77
Ludox Hs-40 Colloidal Silica	1 L	45ZJ88
Methanol	2 L	46AA18
Methyl-Pyrrolidinone	1 L	45ZV97
Mineral Oil	7.5 mL	45ZU46
Nicotinic Acid	100 g	45ZG92
Octanol	1 L	45ZV91
O-Xylene	4 L	46AA42
Paraffin Wax Mp 58-62C	1 kg	45ZZ41
Phosphoric Acid	100 g	45ZY48
Propanol	4 L	46AA10
Proteinase K	100 mg	45ZH81
Polyvinylpyrrolidone	1 kg	45ZE68
Sodium Chloride	500 g	45ZH24
Sodium Metasilicate	1 kg	45ZJ90
Tert-Butanol	2 L	46AA24
Tetrahydrofuran	1 L	45ZZ96
Toluene	500 mL	45ZZ77
Triton X-114	100 mL	45ZR10
Thiamine Hydrochloride	25 g	45ZF71

Chemicals (Spectrum Chemical Mfg Corp)

Description	Container Size	Item No.
2,2,4-Trimethylpentane	4 L	39H363
Acetonitrile, Exceeds A.C.S. Specifications	4 L	6NMN8
Ammonium Acetate, Crystal, Reagent, ACS	2.5 kg	6PKX3
Ammonium Hydroxide	20 L	39D967
Ammonium Peroxydisulfate, Crystal, Reagent, ACS	500 g	6WZF9
Barium Chloride, Dihydrate, Crystal, Reagent, ACS	12 kg	6WZH8
Calcium Carbonate, Light Powder, USP, Bulk	45 kg	6TYR3
Calcium Stearate, NF	2.5 kg	39G325
Chloroform, Stabilized	4 L	6MMC2
Ethyl Alcohol, Absolute, Reagent	4 L	6RFK7
Ethylene Glycol	55 gal	6NMH7
Ferric Subsulfate Solution, USP	500 mL	6PHW3
Heptane	4 L	6NMR7
Hydrofluoric Acid	500 mL	39D865
Hydrogen Peroxide, Solution, Reagent, ACS	4 L	6PMW8
Isopropyl Alcohol	4 L	6NMX1
Isopropyl Alcohol, EP, BP, JP	20 L	6RFR1
Potassium Hydroxide, Pellets, Reagent, ACS	2.5 kg	6MNA5
Potassium Iodide, Crystal, Reagent, ACS	500 g	6MND2
Methanol, Absolute	200 L	6NMZ0
Naphtha, VM and P	4 L	39G662
Nitric Acid, Technical	2.5 L	6PJE3
Phosphoric Acid, FCC	4 L	6PJG5
Polyethylene Glycol 400, NF	2.5 L	6PNL9
Propylene Glycol, USP	4 L	6WYF2
Reagent Alcohol, Denatured, Exceeds A.C.S. Specifications	4 L	6NMR4
Silver Nitrate, Crystal, Reagent, ACS	100 g	39G853
Sodium Carbonate, Monohydrate, Granular, Reagent, ACS	2.5 kg	39G887
Sodium Hydroxide	20 L	39E316
Sodium Hypochlorite, Solution, Available Chlorine, Reagent	500 mL	6NNV1
Sodium Metabisulfite, Granular, FCC	2.5 kg	39H031
Sodium Selenite, Powder	5 kg	6NPF1
Strontium Chloride, Hexahydrate, Crystal, Reagent, ACS	12 kg	39G984
Talc, Powder, USP	12 kg	6WYW3
Tetrahydrofuran, Stabilized	20 L	39H490
White Petrolatum, White, USP	15.9 kg	6PNL0
Zinc Chloride, Granular, USP, JP	12 kg	6TZG2

Chemicals (Ricca Chemical Company)

Description	Container Size	Item No.
Ag Nitrate Precision Solution	1 L	45F513
Ammonium Bifluoride, (Certified 10% w/v) Aqueous Solution	4 L	45E349
Bromine Number Titration Solvent	4 L	45E969
Reference Buffer, pH 4.00 ±0.01 at 25°C	4 L	45D009
Reference Buffer, pH 7.00 ±0.01 at 25°C	4 L	45D043
Reference Buffer, pH 10.00 ±0.01 at 25°C	4 L	45D094
Distilled Water Reagent	4 L	49WC28
EDTA Titrant Precision Solution	20 L	45F075
Ethanol, Reagent Alcohol	4 L	45E944
Hydrochloric Acid, (Certified 2.00 Normal)	20 L	45E542
Hydrogen Peroxide, (Certified 35% v/v) Aqueous Solution	20 L	45E549
Iodine Precision Solution	4 L	45F183
Isopropanol, (Certified 70% v/v) Aqueous Solution	4 L	45E573
Kerosene	4L	45E959
Mercuric Acetate, (Cert 25 g/L) in Glacial Acetic Acid	4 L	45E593
Methanol	4 L	45E938
Nital Etchant, (Certified 10%)	250 mL	45E673
Nitric Acid Precision Solution	1 L	45F233
Potassium Fluoride, (Cert 50% w/v) Aqueous Solution, Neutralized	4 L	45E751
Potassium Hydroxide, (Certified 20% w/v) Aqueous Solution	4 L	45E767
Potassium Iodide, (Certified 10% w/v) Aqueous Solution, Stabilized	1 L	45D652
Potassium Permanganate Precision Solution	10 L	45F398
Povidone-Iodine Solution USP, (Certified 10% w/v), 1% (w/v) Available Iodine, for Laboratory Use	500 mL	45D478
Purified Water Reagent	20 L	49WC30
Reagent Alcohol (Denatured Alcohol), (Certified 70% v/v) Aqueous Solution	4 L	45E450
Silver Nitrate Precision Solution	20 L	45F481
Sodium Hydroxide Precision Solution	4 L	45F577
Sulfuric Acid, (Certified 10% v/v) Aqueous Solution (1 + 9)	4 L	45E867
Synthetic Sea Water,ASTM D1141 Substitute Ocean Water (Certified), without Heavy Metals	20 L	45D892
TCLP Extraction Fluid 2 pH 2.88	20 L	45D906
Titration Solvent	4 L	45E973
Toluene	4 L	45E961
Water Reagent	20 L	49WC18
Xylenes	4 L	45E963

Water Purification Systems

Produce purified water for laboratory, industrial, and commercial applications. All Type I water systems, start-up cartridges, and final filters are sold separately.

WATER PURIFICATION SYSTEMS

- Produce Type 1 laboratory grade water on demand

Aries Type I—Quiet recirculation pump assures constant water purity. Large capacity cartridges are spring loaded. VP Series filter cartridges sold separately.

- Bacteria removal: < 10 CFU/mL

Phoenix Type I—Ultrahigh-purity water systems deliver lab quality water on demand. The water goes through a staged purification process which includes high-purity ion exchange resins to remove dissolved minerals and internal recirculation to maintain purity. Intuitive touch screen and easy maintenance. Filter cartridges sold separately.

- Bacteria removal: < 1 CFU/mL

DEIONIZERS

- Produce Type II purified water

Hydra DI—Preassembled high-purity systems provide deionized water from city and tap water supplies using a 3-stage process. Include cartridges and water quality light.

VP SERIES SINGLE CARTRIDGE HOLDER

Unix modular, wall-mounted system employs quick-connect VP Series cartridges (sold separately) to treat water and process fluids. Holders can be easily linked together for staged filtration in downflow and upflow applications.

Aries Type I
44C701

Phoenix Type I
48GE17

Hydra DI
44C703

Purified Water Resistivity (megohms)	Max. Output Flow	Total Organic Carbons	Endotoxins, RNase/DNase Removal	Particulate Removal (micron)	Mfr. Model	Item No.
Water Purification Systems						
Aries Type I - Countertop						
18.2 megaohm	2 lpm	5-10 ppb	No	0.2 micron	ARS-102	**44C701**
		Less Than 5 ppb	Yes w/ PF-00-6505		ARS-102-UV	**44C702**
Phoenix Type I - Countertop						
18.2 megaohm	2.5 lpm	Less Than 15 ppb	Removed When Fitted w/PF-00-7101 Filter	0.2 micron	PHX-AD-S-1	**48GE17**
		Less Than 5 ppb			PHX-CT-S-1	**48GE18**
					PHX-CT-S-1-DF	**48GE19**
		Less Than 10 ppb			PHX-BC-S-1	**48GE21**
					PHX-BC-S-1-DF	**48GE22**
		Less Than 5 ppb			PHX-GN-S-1	**48GE24**
					PHX-GN-S-1-DF	**48GE25**
Phoenix Type I - Remote Configuration						
18.2 megaohm	2.5 lpm	Less Than 5 ppb	Removed When Fitted w/PF-00-7101 Filter	0.2 micron	PHX-CT-R-1	**48GE20**
		Less Than 10 ppb			PHX-BC-R-1	**48GE23**
		Less Than 5 ppb			PHX-GN-R-1	**48GE26**
Deionizers						
Hydra DI						
1 to 10 megaohm	1.9 lpm	—	—	5 micron	HY-122-DI	**44C703**
	4.7 lpm			25 micron	HY-122B-DI	**44C705**
50 to 100 megaohm	1.9 lpm			5 micron	HY-122-DI-HC	**44C704**
	4.7 lpm			25 micron	HY-122B-DI-HC	**44C706**
Cartridge Replacement Kits For Hydra DI						
For Use with 44C703					HYK-001	**46Z224**
For Use with 44C704					HYK-009	**46Z226**
For Use with 44C705					HYK-002	**46Z225**
For Use with 44C706					HYK-010	**46Z227**

Inlet Pipe Size	Max. Inlet Pressure Range	Max. Output Flow	Outlet Pipe Size	Mfr. Model	Item No.
VP Series Single Cartridge Holder					
¼ in OD Tube	30 psi	4 lpm	¼ in OD Tube	UNIX-00	**44C707**
Cartridges for Use With 44C707					
DI Cartridge, Color-Changing High Purity Mixed Bed				VP-17-4030	**44C567**
DI Cartridge, High Purity Mixed Bed				VP-17-4010	**44C568**
DI Cartridge, High Capacity				VP-17-4203	**44C577**
Cartridge, Activated Carbon				VP-17-1050	**44C571**

Rotary Evaporators

- 1300W heating capacity

Offer a digital display for set and actual heating bath temperature.

HEI-VAP EXPERT

Large dial controls to adjust rotation speed and bath temperature. Adjust the required angle of the evaporating flask individually according to your needs. Patented flask clamp Easy-Clip cannot get lost due to a connection to the vapor tube coupling ring.

HEI-VAP CORE

3.5" LCD indicates rotation speed, heating bath, and vapor temperature. Preprogrammed timer turns off evaporator and removes evaporating flasks from bath on motor lift models. Motorized models feature lift that adjusts height with the press of a button.

56DK96

Glassware Set Type	Height Adjustment Method	Item No.
Hei-VAP Expert		
G1, Diagonal Condenser	Manual	**56DK91**
G1B, Coated Diagonal Condenser	Manual	**56DK95**
G3, Standard Distillation Vertical Condenser	Manual	**56DK92**
G3B, Coated Standard Distillation Vertical Condenser	Manual	**56DK96**
G3BXL, Coated Standard Distillation Vertical Condenser	Manual	**56DK97**
G3XL, Standard Distillation Vertical Condenser	Manual	**56DK93**
G5, Dry Ice Condenser	Manual	**56DK94**
G5B, Coated Dry Ice Condenser	Manual	**56DK98**
G1, Diagonal Condenser	Motorized	**56DK99**
G1B, Coated Diagonal Condenser	Motorized	**56DL04**
G3, Standard Distillation Vertical Condenser	Motorized	**56DL01**
G3B, Coated Standard Distillation Vertical Condenser	Motorized	**56DL05**
G3BXL, Coated Standard Distillation Vertical Condenser	Motorized	**56DL06**
G3XL, Standard Distillation Vertical Condenser	Motorized	**56DL02**
G5, Dry Ice Condenser	Motorized	**56DL03**
G5B, Coated Dry Ice Condenser	Motorized	**56DL07**
Hei-VAP Core		
G1, Diagonal Condenser	Manual	**56DK74**
G1B, Coated Diagonal Condenser	Manual	**56DK78**
G3, Standard Distillation Vertical Condenser	Manual	**56DK75**
G3B, Coated Standard Distillation Vertical Condenser	Manual	**56DK79**
G3BXL, Coated Standard Distillation Vertical Condenser	Manual	**56DK80**
G3XL, Standard Distillation Vertical Condenser	Manual	**56DK76**
G5, Dry Ice Condenser	Manual	**56DK77**
G5B, Coated Dry Ice Condenser	Manual	**56DK81**
G1, Diagonal Condenser	Motorized	**56DK82**
G1B, Coated Diagonal Condenser	Motorized	**56DK86**
G3, Standard Distillation Vertical Condenser	Motorized	**56DK83**
G3B, Coated Standard Distillation Vertical Condenser	Motorized	**56DK87**
G3BXL, Coated Standard Distillation Vertical Condenser	Motorized	**56DK88**
G3XL, Standard Distillation Vertical Condenser	Motorized	**56DK84**
G5, Dry Ice Condenser	Motorized	**56DK85**
G5B, Coated Dry Ice Condenser	Motorized	**56DK89**

Description	Item No.
Accessories	
Guard Hood, 6 in x 8 in x 8 in	**36RM99**
Guard Shield, 6 in x 8 in x 8 in	**36RN01**
Spare Vapor Tube, 3 in x 3 in x 8 in	**36RN06**
Tube Set, Includes 6.25m Water and Vacuum Tubing	**36RN08**
Rotary Evaporator Enclosure, 38 in x 24 in x 48 in	**36RN12**
Rotary Evaporator Enclosure, 38 in x 24 in x 50 in	**36RN13**
Filter for Rotary Evaporator Enclosure	**36RN14**

Disposable Glove Chambers

Hands-in-Bag atmospheric chambers are constructed of sturdy 0.003" gauge polyethylene and are polished for clarity. Seams are heat sealed for strength and inflation-tested to be leak-free. Ideal for laboratory, field sampling, and emergency isolation applications. Include sealing tape.

No. of Ports	Chamber Volume	Opening Size	W	L	Mfr. Model	Item No.
1	17,085 cu in	24 in	39 in	48 in	690323	**3NPA1**
	30,510 cu in	30 in	45 in	58 in	690341	**3NPA3**
	31,730 cu in	36 in	51 in	58 in	690321	**3NPA2**

9TA97

45H845

Laboratory Hood (Work Surface and Cabinet sold separately.) 8PCX7

55NW87 (Cabinet sold separately.)

Ductless and Ducted Fume Hoods

PURAIR DUCTLESS FUME HOODS

- User-friendly operation
- Filter required, order separately
- For mobile carts and spill trays, see Grainger.com

Utilize Multiplex filtration technology with an electrostatic prefilter and main carbon filter, selected for specific applications. Provide an additional 5" or 6" of height for applications that require more headroom.

Overall Width	Overall Length	Overall Height	Filter Type	No. of Filters Req.	Brand	Mfr. Model	Item No.
Purair Ductless Fume Hoods							
Purair Basic XT							
24 in	27 in	35 in	Acids, Carbon, Formaldehyde, HEPA, Solvents	1	Air Science	P5-24XT	**9TA97**
36 in	27 in	35 in		1	Air Science	P5-36XT	**8NK58**
48 in	27 in	35 in		2	Air Science	P5-48XT	**8XDK9**
XPert Filter Protector Ductless Fume Hoods							
29 in	24 in	37 3/32 in	HEPA	1	Labconco	3950201	**26KJ31**
24 in	36 in	36 3/32 in		1	Labconco	3950301	**26KJ34**
29 in	48 in	37 3/32 in		1	Labconco	3950401	**26KJ37**
29 in	60 in	46 19/64 in		2	Labconco	3950501	**26KJ40**
29 in	72 in	46 19/64 in		2	Labconco	3950601	**26KJ46**

Description	Brand	Mfr. Model	Item No.
Filters for Purair Basic and Purair Basic XT			
Prefilter, Pk. of 6	Air Science	ASTS-PRF	**4UDJ2**
Carbon Filter for Acids	Air Science	ASTS-015	**4UDJ1**
Carbon Filter for Organics, Solvents, and Hydrocarbons	Air Science	ASTS-001	**4UDH8**
Carbon Filter for Formaldehyde	Air Science	ASTS-013	**8WAL1**
HEPA Filter for Powders	Air Science	ASTS-030	**4UDH9**

XPERT FILTERED BALANCE SYSTEM WITH GUARDIAN AIRFLOW MONITOR DUCTLESS FUME HOODS

Provide user protection by containing airborne powders and particulates. Help keep particles contained during weighing and power transfer. Include a built-in blower and exhaust HEPA filter. This system returns filtered air to the laboratory and requires no outside ducting.

CE (COMPACT) DUCTED FUME HOODS

Reduced hood size with vented enclosure duct, pulls contaminants out of the building for occupant safety. 1-pc., seamless liner ensures efficient airflow and has excellent chemical resistance and flame retardation.

BASIC DUCTED FUME HOODS

Designed for mobile labs, classrooms, or areas with low ceilings or narrow aisles. 16-ga., powder-coated steel liner and counterbalanced clear tempered safety glass sash. Built-in blowers are sized for up to 100-ft. duct run. Hoods include air foil, 2-pc. adjustable baffle, 100W incandescent light fixture, and 10.3" O.D. duct collar for connection to exhaust.

ISOLATOR³ HIGH-PERFORMANCE DUCTED LABORATORY FUME HOODS

Have precise baffle pressurization to help achieve superior capture and containment at standard or low volume applications. Hoods have 43½"H "full view" sash with tempered glass and a full-length handle. Slotted rear baffle helps provide even plenum balance with a 24"D interior. Hoods come prewired and include a white poly glass liner. Accessories sold separately on Grainger.com.

TELESCOPING BASE STANDS

Provide sturdy support of up to 1000 lb.

Description	Includes	W	D	H	Brand	Mfr. Model	Item No.
CE (Compact) Ducted Fume Hoods							
Ducted Fume Hood	Internal Blower, Vapor Proof Light	30 in	24 in	45 in	Hemco	13042	**45H845**
		36 in	24 in	45 in	Hemco	13642	**45H846**
		48 in	24 in	45 in	Hemco	14842	**45H847**
	Hazardous-Location Light, Internal Blower	30 in	24 in	45 in	Hemco	13044	**45H851**
		36 in	24 in	45 in	Hemco	13644	**45H852**
		48 in	24 in	45 in	Hemco	14844	**45H853**
Basic Ducted Laboratory Fume Hoods							
⅓ hp Blower	Built-In ⅓ hp Blower, Light and Blower Switches, Prewired 100 Watt Vapor-Proof LED Light	47 in	25 in	53 in	Labconco	2247300	**8PCX7**
	Built-In ⅓ hp Hazardous-Location Blower and Hazardous-Location LED Light Fixture	47 in	25 in	53 in	Labconco	2247500	**9JWL6** *
¾ hp Blower	Built-In ¾ hp Blower, Light and Blower Switches, Prewired 100 Watt Vapor-Proof Incandescent Light	70 in	25 in	53 in	Labconco	2246300	**8GDN7**
	Built-In ¾ hp Hazardous-Location Blower and Hazardous-Location Light Fixture	70 in	25 in	53 in	Labconco	2246500	**8UU09** *
Isolator³ High Performance Ducted Laboratory Fume Hoods							
Vertical Sash	—	48 in	33 in	57 ¼ in	Instock	GRF-350-48G7	**55NW87**
		60 in	33 in	57 ¼ in	Instock	GRF-350-60G7	**55NW88**
		72 in	33 in	57 ¼ in	Instock	GRF-350-72G7	**55NW89**
Telescoping Base Stands							
Adjustable Height 4 ft	(4) Fixed Leveling Feet, 1.75 in Tubular Powder-Coated Steel Frame	48 in	29 in	27½ in to 34½ in	Labconco	3746702	**8YEA7**
Adjustable Height 6 ft		72 in	29 in		Labconco	3746704	**8WFK1**

** Hazardous-location models do not include switches and wiring, which must be individually installed in conformance with local codes.*

45H165

53CP74

Biosafety Cabinets

Help provide personnel, product, and environmental protection from biological particulates. For use with agents that require Biosafety Level 1, 2, or 3 containment.

Purifier Logic+—Feature ADA-complaint touchpad control on right-hand side post for manual activation of blower, lights, timer, and electrical receptacles, audible arm mute, and menu selection. Built-in interval or elapsed timer for experiment monitoring, fluorescent light, or UV light control.

Labculture RELIANT—Shorter height and smaller footprint optimizes lab space. Allow preparation of low to moderate risk agents. Has energy-efficient DC ECM motor technology. Feature simple switches, pressure gauge, and manual UV timer. Esco Isocide antimicrobial coating on all painted surfaces minimizes contamination.

W	Overall Length	H	Brand	Mfr. Model	Item No.
Purifier Logic+ Biosafety Cabinets					
42 3/10 in	31 1/5 in	61 4/5 in	Labconco	302380001	**45H165**
54 3/10 in	31 1/5 in	61 4/5 in	Labconco	302480001	**45H173**
66 3/10 in	31 1/5 in	61 4/5 in	Labconco	302580001	**45H181**
78 3/10 in	31 1/5 in	61 4/5 in	Labconco	302680001	**45H189**
Labculture RELIANT Biological Safety Cabinets					
36 in	33 ½ in	61 in	Instock	BSC-A2-36	**53CP74**
48 in	33 ½ in	61 in	Instock	BSC-A2-48	**53CP75**
60 in	33 ½ in	61 in	Instock	BSC-A2-60	**53CP76**
72 in	33 ½ in	61 in	Instock	BSC-A2-72	**53CP77**

49YN89

49YN17

6RHD4

49YP28

49YP77

Lab Refrigerators and Freezers

- 60 Hz, 115 V (except 6RHD4 is 120 V)

Provide energy-efficient, convenient, safe, and reliable performance for demanding life science, pharmacy, biological, clinical, and industrial applications. ABS units feature microprocessor temperature controller with audible and visual alarms, digital temperature display, remote alarm contacts, keyed door locks, and leveling legs.

Refrigerator Cap.	Refrigerator Temp. Range	Freezer Cap.	Freezer Temp. Range	H	W	D	Color	Door Type	Defrost	Brand	Item No.
Undercounter Refrigerators											
General Purpose											
5 cu. ft.	34° to 50°F	—	—	31½ in	20 in	22 ¼ in	White	Swing Solid	Cycle	ABS	**49YP19**
High Performance											
1 cu. ft.	34° to 50°F	—	—	21¼ in	17 ¼ in	19 ¼ in	White	Swing Solid	Cycle	ABS	**49YN89**
1 cu. ft.	34° to 50°F	—	—	21¼ in	17 ¼ in	19 ¼ in	White	Swing Glass	Cycle	ABS	**49YN91**
2.5 cu. ft.	34° to 50°F	—	—	28⅞ in	17 ¾ in	19 ½ in	White	Swing Solid	Cycle	ABS	**49YN93**
2.5 cu. ft.	34° to 50°F	—	—	28⅞ in	17 ¾ in	19 ½ in	White	Swing Glass	Cycle	ABS	**49YN94**
4.5 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	24 ½ in	Silver	Swing	Cycle	ABS	**49YP03**
4.6 cu. ft.	34° to 50°F	—	—	31⅞ in	23 ¾ in	25 ½ in	White	Swing Glass	Cycle	ABS	**49YP01**
5.2 cu. ft.	34° to 50°F	—	—	32⅛ in	23 ¾ in	24 in	White	Swing Glass	Cycle	ABS	**49YN95**
1 cu. ft.	34° to 50°F	—	—	21¼ in	17 ¼ in	19 ¼ in	White	Swing Solid	Cycle	ABS	**49YN90**
1 cu. ft.	34° to 50°F	—	—	21¼ in	17 ¼ in	19 ¼ in	White	Swing Glass	Cycle	ABS	**49YN92**
4.6 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	24 ½ in	White	Swing Solid	Cycle	ABS	**49YN96**
4.6 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	24 ½ in	White	Swing Solid	Cycle	ABS	**49YN97**
4.6 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	25 ½ in	White	Swing Glass	Cycle	ABS	**49YN98**
4.6 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	25 ½ in	White	Swing Glass	Cycle	ABS	**49YN99**
4.6 cu. ft.	34° to 50°F	—	—	31⅞ in	23 ¾ in	25 ½ in	White	Swing Glass	Cycle	ABS	**49YP02**
4.5 cu. ft.	34° to 50°F	—	—	33⅜ in	23 ¾ in	24 ½ in	Silver	Swing	Cycle	ABS	**49YP04**
Upright Refrigerators											
Chromatography											
16 cu. ft.	34° to 50°F	—	—	6 ft 5 in	25 ¾ in	28 ¾ in	White	Swing Glass	Cycle	ABS	**49YN17**
Flammable Liquid											
30 cu. ft.	34° to 50°F	—	—	6 ft ½ in	35 ¾ in	35 ½ in	White	Swing Solid	Cycle	ABS	**49YP49**
High Performance											
10.5 cu. ft.	34° to 50°F	—	—	4 ft 11 in	23 ¾ in	26 ½ in	White	Swing Glass	Cycle	ABS	**49YP60**
Upright Refrigerators with Freezers											
Flammable Liquid											
25 cu. ft.	34° to 50°F	5 cu. ft.	-13° to 5°F	6 ft ½ in	35 ¾ in	35 ½ in	White	Swing Solid	Manual	ABS	**49YP50**
General Purpose											
23 cu. ft.	36° to 50°F	15 cu. ft.	5° to 14°F	5 ft 8 in	30 in	34 in	White	Solid	Automatic	Corepoint Scientific	**6RHD4**
High Performance											
10.5 cu. ft.	34° to 50°F	1.7 cu. ft.	-13° to 5°F	6 ft 8¼ in	23 ¾ in	26 ½ in	White	Swing Glass/Swing Solid	Cycle/Manual	ABS	**49YP62**
Pharmacy											
23 cu. ft.	33° to 50°F	23 cu. ft.	33.8° to 50°F	82½ in	26 ⅞ in	34 ¾ in	White	Swing Glass	Cycle	Corepoint Scientific	**498X05**
33 cu. ft.	33° to 50°F	33 cu. ft.	33.8° to 50°F	82½ in	39 ⅝ in	32 ½ in	White	Sliding Glass	Cycle	Corepoint Scientific	**498X07**
Undercounter Freezers											
Flammable Liquid											
—	—	4 cu. ft.	-13° to 5°F	32 3/16 in	23 ⅝ in	24 ¼ in	White	Swing Solid	Manual	ABS	**49YP28**
General Purpose											
—	—	4 cu. ft.	-13° to 5°F	33⅛ in	20 ⅜ in	22 ½ in	White	Swing Solid	Manual	ABS	**49YP20**
—	—	1.5 cu. ft.	-13° to 5°F	19½ in	18 ½ in	19 ½ in	White	Swing Solid	Manual	ABS	**49YP21**
High Performance											
—	—	1.3 cu. ft.	-13° to 5°F	20⅜ in	23 ¾ in	24 in	White	Swing Solid	Automatic	ABS	**49YP07**
Upright Freezers											
Flammable Liquid											
—	—	30 cu. ft.	-13° to 5°F	6 ft ½ in	35 ¾ in	35 in	White	Swing Solid	Manual	ABS	**49YP36**
Ultra-Low Temperature											
—	—	21 cu. ft.	-125° to -58°F	6 ft7-5/8 in	3 ft 7¾ in	36 ¼ in	Gray	Swing Solid	Manual	ABS	**49YP77**

Liquid-In-Glass & Bottle Thermometers

Liquid-in-glass thermometers need to be partially submerged to a known depth to accurately register temperature readings. They have a marked line that indicates what level they need to be submerged in order to provide a temperature reading. They are commonly used to measure temperatures readings in vessels and beakers when the sample to be measured is shallow.

Bottle thermometers are filled with a biosafe material intended to mimic the critical samples that need to be measured. Bottles are shatter-resistant.

Temp. Range	Graduations	Immersion Depth	L	Item No.
Liquid In Glass Thermometers				
For Incubators and Water Baths				
0° to 80°C	1°C	100 mm	250 mm	**5ZPG1**
0° to 80°C	1°C	100 mm	250 mm	**5ZPG2** *
20° to 100°C	0.5°C	76 mm	305 mm	**5ZPG0** *
For Ovens				
0° to 200°C	1°C	125 mm	405 mm	**5ZPG9**
0° to 200°C	1°C	125 mm	405 mm	**5ZPH0** *
For Ovens, Oil Baths				
0° to 200°C	1°C	76 mm	280 mm	**5ZPG8** *
0° to 200°C	1°C	76 mm	280 mm	**5ZPG7**

*** Safety-coated glass construction.***

Temp. Range	Graduations	Bottle Fill Medium	Accuracy	Overall Height	Item No.
Bottle Thermometers					
For Incubators					
18° to 50°C	0.5°C	Glycol	±1°C	135 mm	**8RLT5**
18° to 50°C	0.5°C	Glycol	±1.5°C	140 mm	**9FAN0**
For Ovens					
20° to 130°C	1°C	Sand	±2°C	135 mm	**8WYC1**
For Refrigerators					
-5° to 15°C	0.5°C	Glycol	±1°C	125 mm	**8RLT4**
-5° to 15°C	0.5°C	Glycol	±1.5°C	130 mm	**8AU73**

9FAN0

8WYC1

8AU73

48VG33

422V21

39J322

Digital Laboratory Incubators

BOD Incubators—Refrigerated incubators keep low temperatures for applications such as fermentation studies, or plant and insect studies. Include color touch screens, except 48VG33 has a digital display.

Cell Culture Incubators—Maintain your desired temperature, humidity, etc to grow and maintain cell cultures. 422V22 has a European plug.

Incubators—Ideal for testing sewage, wastewater, and other low and room temperature applications. Mechanical convection system for even air distribution. Microprocessor control system, PID temperature control, and LED display. Meets APHA specs for BOD testing.

Refrigerated/ Non-Refrigerated	Cap.	Temp. Range	Temp. Accuracy	Voltage	Chamber H	Chamber W	Chamber D	Brand	Mfr. Model	Item No.
BOD Incubators										
Refrigerated	1.2 cu. ft.	7° to 60°C	±0.7°C	120 to 240V AC	10.25 in	12 in	16.5 in	Revolutionary Science	RS-IF-233	**48VG33**
Refrigerated	1.2 cu. ft.	1° to 75°C	±0.7°C	120 to 240V AC	10.25 in	12 in	16.5 in		RS-IF-233pro	**48VG34**
Refrigerated	1.9 cu. ft.	1° to 75°C	±0.7°C	120 to 240V AC	16.5 in	12 in	16.5 in		RS-IF-253pro	**48VG35**
Refrigerated	2.6 cu. ft.	1° to 75°C	±0.7°C	120 to 240V AC	22.5 in	12 in	16.5 in		RS-IF-273pro	**48VG36**
Cell Culture Incubators										
Non-Refrigerated	0.23 cu. ft.	30° to 112°C	±0.25°C @ 37°C	240V	6.2 in	7.1 in	9.1 in	Benchmark Scientific	T5005-3205	**422V21**
Non-Refrigerated	0.23 cu. ft.	30° to 112°C	±0.25°C @ 37°C	240V	6.2 in	7.1 in	9.1 in		T5005-3205-E	**422V22**
Refrigerated	0.86 cu. ft.	4° to 75°C	±0.2°C	120V	10.25 in	14.25 in	10 in	Genie (Scientific Industries)	SI-1200	**13R323**
Incubators										
Refrigerated	6.5 cu. ft.	15° to 40°C	±0.5°C @ 20°C	120V	18.5 in	25.5 in	24 in	Shel Lab	SRI6P	**39J322**
Refrigerated	6.5 cu. ft.	15° to 40°C	±0.5°C @ 20°C	240V	18.5 in	25.5 in	24 in		SRI6P-2	**39J323**
Refrigerated	19.3 cu. ft.	15° to 40°C	±0.5°C @ 20°C	120V	54.5 in	25.5 in	24 in		SRI20P	**39J324**
Refrigerated	19.3 cu. ft.	15° to 40°C	±0.5°C @ 20°C	240V	54.5 in	25.5 in	24 in		SRI20P-2	**39J325**

Forced Air Convection Basic Oven 13R401

Gravity Convection Programmable Oven 20H915

Vacuum Convection Oven 39J318

Natural Gravity Convection Box Furnace, Benchtop 38L773

Convection Ovens and Box Furnaces

Provide controlled heat for drying, baking, sterilizing, heat treating, evaporating, annealing, and testing.

Basic Digital Ovens—Shel Lab ovens feature microprocessor temperature control and digital electronic timer. LSS ovens include PID controller and PT 100 sensor.

Programmable Ovens—Adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-color display. Include adjustable overtemperature protection and 7-day timer.

Vacuum Convection Ovens—Feature cross-flow ventilation, overtemperature protection, stainless steel chamber, and vacuum gauge. Digital models offer microprocessor temperature control.

Box Furnaces—Yield consistent temperatures throughout the working chamber zone.

Volume	Digital/ Analog	Voltage	Temp. Range	Temp. Accuracy	Chamber H	Chamber W	Chamber D	No. of Shelves	Brand	Item No.
Forced Air Convection Ovens										
Basic										
13.7 cu ft	Digital	220 V	15° to 260°C	±3.0°C @ 150°C	31 in	30.7 in	24.7 in	3	Shel Lab	**13R399**
16 L	Digital	120 V	Ambient +10° to 250°C	±1°C @ 100°C	9.84 in	9.84 in	10.23 in	2	LSS	**32EZ27**
27.5 cu ft	Digital	220 V	15° to 260°C	±3.5°C @ 150°C	61 in	30.8 in	25 in	6	Shel Lab	**13R401**
30 L	Digital	120 V	Ambient +10° to 250°C	±1°C @ 100°C	12.59 in	12.59 in	11.81 in	2	LSS	**32EZ24**
50 L	Digital	120 V			14.96 in	15.74 in	12.99 in	2	LSS	**32EZ25**
80 L	Digital	120 V			17.71 in	17.71 in	15.74 in	2	LSS	**32EZ26**
Programmable										
5.7 cu ft	Digital	115 V	At least 10°C above ambient up to +300°C	up to 99.9°±0.1°C/ from 100°±0.5°C	28.4 in	22 in	15.8 in	2	Memmert	**42W036**
9 cu ft	Digital	115 V			31.5 in	25.2 in	19.7 in	2	Memmert	**20H911**
Gravity Convection Ovens										
Basic										
1.9 cu ft	Digital	115 V	At least 5°C above ambient up to +300°C	up to 99.9°±0.1°C/ from 100°±0.5°C	15.8 in	15.8 in	13 in	1	Memmert	**20H894**
3.8 cu ft	Digital	115 V			18.9 in	22 in	15.8 in	2	Memmert	**20H897**
30 L	Digital	120 V	Ambient +10° to 200°C	±1°C @ 100°C	12.6 in	12.6 in	11.8 in	2	LSS	**32EZ28**
50 L	Digital	120 V			14.96 in	15.74 in	12.99 in	2	LSS	**32EZ29**
90 L	Digital	120 V			18.5 in	17.71 in	16.92 in	2	LSS	**32EZ30**
Programmable										
1.1 cu ft	Digital	115 V	At least 5°C above ambient up to +300°C	up to 99.9°±0.1°C/ from 100°±0.5°C	12.6 in	15.8 in	9.8 in	1	Memmert	**20H915**
1.9 cu ft	Digital	115 V			15.8 in	15.8 in	13 in	1	Memmert	**20H916**
3.8 cu ft	Digital	115 V			18.9 in	22 in	15.8 in	2	Memmert	**20H917**
9.0 cu ft	Digital	115 V			31.5 in	25.2 in	19.7 in	2	Memmert	**20H918**
Vacuum Convection Ovens										
0.6 cu ft	Analog	120 V	15° to 210°C	±9°C @ 120°C	9 in	9 in	12 in	2	Shel Lab	**39J318**
1.7 cu ft	Analog	120 V			12 in	12 in	20 in	2	Shel Lab	**39J320**
1.7 cu ft	Digital	120 V	10° to 220°C	±3.5% of set point	12 in	12 in	20 in	3	Shel Lab	**13R403**
4.5 cu ft	Digital	120 V			18 in	18 in	24 in	3	Shel Lab	**13R404**
Natural Gravity Convection Ovens										
Box Furnace, Benchtop										
6 L	Digital	220-240	1000°C°	—	6.49 in	7.08 in	8.26 in	1	Carbolite	**38L773**
Box Furnaces, Lab										
13 L	Digital	220-240	1200°C°C	—	25.78 in	17.12 in	24.01 in	—	Carbolite	**38L779**
23 L	Digital	220-240			705 in	19.88 in	26.57 in	—	Carbolite	**38L780**

BriskHeat® Chemglass Life Sciences

Heating Mantles and Beaker Heaters

- 120V, except 21TW61 is 240V
- Required Benchtop Temperature Controllers sold separately

Provide uniform heat across the surface of a flask or beaker.

Heating Mantle 13N549

Beaker Heater 13P744

HEATING MANTLES

- Max. temp: 850°F

Fiberglass liner is molded to fit snugly on round-bottom flasks. The heating element is topped by ceramic and wool insulation layers and a fiberglass cloth cover.

Lower Hemisphere—For use with basket ring stands. 3" lead wire with NEMA L1-15R connector and 4-ft. power adapter cord with NEMA 1-15 plug.

Spherical—Opening adjusts for 1-, 2-, or 3-neck flasks on these full-coverage zippered mantles for basket ring stand. 6-ft. cord with NEMA 1-15 plug, except 13N559 and 13N560 have 4-ft. cord.

BEAKER HEATERS

- Max. temp: 450°F

Heaters wrap around Griffin and standard beakers and are snugged in place with a hook-and-loop closure. The heating element is laminated between two layers of fiberglass-reinforced silicone rubber that is moisture- and chemical-resistant. 2-ft. power leads with 2-prong NEMA 1-15 plug.

Wattage	For Use With	Brand	Mfr. Model	Item No.
Lower Hemisphere Heating Mantles				
80	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	HM0100-HS1	**13N549**
80		Briskheat	HM0125-HS1	**13N550**
80	Flasks	Chemglass	CG-10000-02	**21UG46**
270	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	HM0500-HS1	**13N553**
380		Briskheat	HM1000-HS1	**13N554**
380	Flasks	Chemglass	CG-10000-08	**21UG57**
500	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	HM2000-HS1	**13N555**
500		Briskheat	HM3000-HS1	**13N556**
600		Briskheat	HM5000-HS1	**13N557**
1300	TTD999-K120+TAKN10-DA	Briskheat	HM12000-HS1	**13N558**
Spherical Heating Mantles				
0/270	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	HM0500-SS1	**13N559**
140/380		Briskheat	HM1000-SS1	**13N560**
Table Top Heating Mantle				
210	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	HM0500VF1	**13N565**
377		Briskheat	HM1000VF1	**13N566**
550		Briskheat	HM3000VF1	**13P742**
620		Briskheat	HM5000VF1	**13P743**
Beaker Heaters				
150	—	Briskheat	GBH0250-2	**21TW61**
150	SDC120JC-A, SDC120JF-A, SDC120KC-A, SDC120KF-A	Briskheat	GBH0250-1	**13P744**
200		Briskheat	GBH0400-1	**13P745**
250		Briskheat	GBH0600-1	**13P746**
350		Briskheat	GBH1000-1	**13P747**

Fiberglass 13P748

Silicone Rubber 13P849

BriskHeat®

Heat Tape

- Suitable for electrically conductive surfaces
- Optional Benchtop Temperature Controllers sold separately

Provide fast, efficient direct-contact heating on any surface or body. CE Certified and RoHS Compliant.

Fiberglass Heat Tape—Heavy insulated tape is exceptionally flexible and durable and provides rapid thermal response. Has power leads on same end. High-temperature tie-downs for easy installation.

HSTAT Silicone Rubber Heating Tape—Include adjustable thermostat control. Rapid heat-up and thermal response.

Max. Temp.	Voltage	Wattage	W	L	Item No.
Fiberglass Heat Tape					
900 °F	120 V	105	0.5 in	24 in	**13P748**
	120 V	209	1.75 in	24 in	**13P760**
	120 V	210	0.5 in	4 ft	**13P749**
	120 V	310	0.5 in	6 ft	**13P750**
	120 V	313	2.5 in	24 in	**13P765**
	120 V	418	1.75 in	4 ft	**13P761**
	120 V	420	0.5 in	8 ft	**13P751**
	120 V	620	1 in	6 ft	**13P756**
	120 V	627	1.75 in	6 ft	**13P762**
	120 V	830	1 in	8 ft	**13P757**
	120 V	836	1.75 in	8 ft	**13P763**
	120 V	940	2.5 in	6 ft	**13P767**
	120 V	1,254	2.5 in	8 ft	**13P768**
	120 V	1,672	3.25 in	8 ft	**13P773**
HSTAT Silicone Rubber Heating Tape					
425 °F	120 V	144	0.5 in	4 ft	**13P849**
	120 V	216	0.5 in	6 ft	**13P850**
	120 V	288	1 in	4 ft	**13P854**
	120 V	288	2 in	24 in	**13P858**
	120 V	360	0.5 in	10 ft	**13P852**
	120 V	432	1 in	6 ft	**13P855**
	120 V	720	1 in	10 ft	**13P857**
	120 V	1,440	2 in	10 ft	**13P862**
	240 V	144	1 in	24 in	**21TX41**
	240 V	720	1 in	10 ft	**21TX45**
	240 V	864	2 in	6 ft	**21TX48**
	240 V	1,440	2 in	10 ft	**21TX50**
	240 V	1,800	3 in	10 ft	**21TX55**

BriskHeat®

Temperature Controllers

- Accuracy: ±1% FS
- On/Off control
- 120VAC input

13P844

21TV79

Benchtop—Digital controllers offer adjustable upper and lower setpoint limits. Factory-installed Type J or K thermocouple sensors. 5-ft. input and output power cords have NEMA 5-15 plug and receptacle.

Outdoor—Mount vertically for outdoor use. Features audible alarm, Type K thermocouple, and 6-ft. input power cord.

Description	Temp. Range	Thermocouple Type	Mfr. Model	Item No.
Benchtop Temperature Controllers	32° to 999°F/0° to 600°C	J	SDC120JF-A	**13P844**
	32° to 999°F/0° to 600°C	K	SDC120KF-A	**13P846**
	0° to 700°C	J	SDC120JC-A	**13P845**
	0° to 600°C	K	SDC120KC-A	**13P847**
Outdoor Temperature Controller	32 to 999°F	—	TTD999-K120	**21TV79**
Thermocouple, 60 inL	—	—	TAKN05-DA	**21TV80**

Lab Armor® THERMCO® PRODUCTS, INC

DryTemp Dry Baths

- Temp. range: ambient +5° to 150°C
- Thermal uniformity (with lid): ±1.0°C at 95°C

DryTemp Bath with Bead Block

Dry baths feature digital temperature control. Combine with a bead block for optimal temperature uniformity and accuracy while incubating common lab vessels, including microfuge tubes, test tubes, microplates, and slides. Single bead block holds 0.25L of beads. 3¾"L x 3"W x 3"H. Double bead block holds 0.5L of beads. 3¾"L x 6"W x 3"H.

GLASS THERMOMETERS

Designed for use with block heaters and water baths.

Description	H	W	D	Brand	Item No.
Dry Baths					
DryTemp Bath, 120V	3.2 in	8.7 in	10.3 in	Lab Armor	**12L054**
DryTemp Bath, 230V	3.2 in	8.7 in	10.3 in	Lab Armor	**12L055**

Description	▶CHOOSE: Color	Brand	Item No.
Bead Blocks and Beads			
Bead Block - Single	Black, Blue, Gold, Red, Silver	Lab Armor	**H7280**
Bead Block - Double		Lab Armor	**H7281**
Beads, 2L		Lab Armor	**12L039**
Beads, 4L		Lab Armor	**12L040**

Description	Temp. Range	Scale Divisions	L	Brand	Item No.
Glass Thermometers For Block Heaters and Water Baths					
Liquid In Glass Thermometer	0° to 110°C	2°F	225 mm	Thermco	**5ZPF7**
	25° to 57°C	2°F	175 mm	Thermco	**5ZPF5**
Liquid In Glass Thermometer, Safety Coated	0° to 110°C	2°F	225 mm	Thermco	**5ZPF8**

Lab Armor®

Bead Dry Baths

Bath with Beads 12L046

- Temp. range: ambient +5° to 80°C
- Thermal uniformity: ±1.0°C @ 37°C
- Digital display

Bead baths are more energy efficient than water baths and provide precise, uniform temperature control. Protect samples from contamination and easily hold vessels upright in place. Safely incubate multiwell plates and petri dishes without water wicking under their lids.

Description	H	W	D	Item No.
120V				
Bead Bath, 6L	8.5 in	15.9 in	12.3 in	**12L043**
Bead Bath, 14L	8.5 in	15.9 in	18.5 in	**12L045**
Bead Bath, 20L	8.5 in	15.9 in	23.25 in	**12L047**
Bead Bath, 6L, includes 5L of Beads	8.5 in	15.9 in	12.3 in	**12L042**
Bead Bath, 14L, includes 12L of Beads	8.5 in	15.9 in	18.5 in	**12L044**
Bead Bath, 20L, includes 15L of Beads	8.5 in	15.9 in	23.25 in	**12L046**
230V				
Bead Bath, 6L	8.5 in	15.9 in	12.3 in	**12L049**
Bead Bath, 14L	8.5 in	15.9 in	18.5 in	**12L051**
Bead Bath, 20L	8.5 in	15.9 in	23.25 in	**12L053**
Bead Bath, 6L, includes 5L of Beads	8.5 in	15.9 in	12.3 in	**12L048**
Bead Bath, 14L, includes 12L of Beads	8.5 in	15.9 in	18.5 in	**12L050**
Bead Bath, 20L, includes 15L of Beads	8.5 in	15.9 in	23.25 in	**12L052**

Water Baths

45UA82

494F23

Provide exact, stable temperature control. Ideal for heating and maintaining temperature-sensitive samples. Units include a corrosion-resistant, stainless steel reservoir and a digital display.

LW Scientific models offer an open reservoir, touchpad digital controller and red LED display.

PolyScience general purpose water baths feature a reservoir with a hinged gable cover and built-in drain, timer modes, and memory function.

Cap.	Temp. Accuracy	Temp. Range	Flow Rate	Material	Volume	Chamber H	Chamber W	Chamber D	Brand	Item No.
10 L	±0.2°C	Ambient 5° to 100°C	—	Aluminum, Stainless Steel	10 L	6 in	12 in	10 in	LW Scientific	**45UA82**
20 L	±0.2°C		10 lpm		20 L	6 in	19.3 in	11.4 in		**45UA83**
2 L	±0.25°C	Ambient +5° to 99°C	2 lpm	Polycarbonate, Stainless Steel	2 L	6 in	4.3 in	6 in	PolyScience	**494F23**
5 L	±0.25°C		5 lpm		5 L	6 in	10.8 in	6 in		**494F24**
10 L	±0.25°C		10 lpm		10 L	6 in	11.6 in	6 in		**494F25**
20 L	±0.25°C		20 lpm		20 L	9.5 in	17 in	6 in		**494F26**
28 L	±0.25°C		28 lpm		28 L	8 in	17 in	8 in		**494F27**

Heated and Refrigerated Circulators

12C262

12C221

12C227

Each unit includes a controller with easy-to-read LCD displays and menu prompts to guide users. Circulators limit excessive over-temperature protection by stirring. All circulators are made from powder painted steel.

Heated Circulators are ideal for warming reagents and culture media, thawing or tempering samples, biological incubation, cell culture, enzyme assays, or controlling the temperature of laboratory equipment such as chromatography columns, viscometers and densitometers. Users can set their own temperature setpoints. The chemical resistant deck surface is cooler to the touch when operating at high temperatures.

Refrigerated Low-Profile Circulators offer quiet, energy efficient operation to regulate the amount of cooling needed. Low-profile models offer a space-saving design.

Heated and Refrigerated Circulators have large bath openings and chemical resistant decks on the units for easy cleaning.

Controller Type	Cap.	Temp. Accuracy	Temp. Range (C)	Temp. Range (F)	Flow Rate	Pump Type	Chamber H	Chamber W	Chamber D	Item No.
Heated Circulators										
Advanced Digital	7 L	±0.01°C	Ambient +10° to 200°	Ambient +20° to 392°	20.1 lpm	Pressure, Suction	6.18 in	5.59 in	5 in	**12C264**
	15 L	±0.01°C			20.1 lpm		8.35 in	10.88 in	5.5 in	**12C270**
	20 L	±0.01°C			20.1 lpm		9.85 in	5.5 in	12.45 in	**12C276**
Advanced Programmable	7 L	±0.01°C			20.1 lpm		6.18 in	5.59 in	5 in	**12C265**
	15 L	±0.01°C			20.1 lpm		8.35 in	10.88 in	5.5 in	**12C271**
	20 L	±0.01°C			20.1 lpm		9.85 in	5.5 in	12.45 in	**12C277**
MX	7 L	±0.07°C	Ambient +10° to 135°	Ambient +20° to 275°	12.8 lpm	Pressure	6.18 in	5.59 in	5 in	**12C262**
	15 L	±0.07°C			12.8 lpm		5.5 in	10.87 in	8.34 in	**12C268**
	20 L	±0.07°C			12.8 lpm		5.5 in	12.43 in	9.84 in	**12C274**
Standard Digital	7 L	±0.04°C	Ambient +10° to 170°	Ambient +20° to 338°	11 lpm		6.18 in	5.59 in	5 in	**12C263**
	15 L	±0.04°C			11 lpm		5.5 in	10.87 in	8.34 in	**12C269**
	20 L	±0.04°C			11 lpm		9.85 in	5.5 in	12.45 in	**12C275**
Refrigerated Low-Profile Circulators										
Advanced Digital	7 L	±0.01°C	-20° to 200°	-4° to 392°	20.1 lpm	Pressure, Suction	6.18 in	5.59 in	5 in	**12C223**
Advanced Programmable	7 L	±0.01°C			20.1 lpm		6.18 in	5.59 in	5 in	**12C224**
MX	7 L	±0.07°C	-20° to 135°	-4° to 275°	12.8 lpm	Pressure	6.18 in	5.59 in	5 in	**12C221** *
Standard Digital	7 L	±0.04°C	-20° to 170°	-4° to 338°	11 lpm		6.18 in	5.59 in	5 in	**12C222** *
Heated and Refrigerated Circulators										
Advanced Digital	7 L	±0.01°C	-20° to 200°	-4° to 392°	20.1 lpm	Pressure, Suction	6.18 in	5.59 in	5 in	**12C229**
	7 L	±0.01°C	-40° to 200°	-40° to 392°	20.1 lpm		6.18 in	5.59 in	5 in	**12C233**
	15 L	±0.01°C	-30° to 200°	-22° to 392°	20.1 lpm		8.35 in	10.88 in	5.5 in	**12C239**
	15 L	±0.01°C	-40° to 200°	-40° to 392°	20.1 lpm		8.35 in	10.88 in	5.5 in	**12C243**
Advanced Programmable	7 L	±0.01°C	-20° to 200°	-4° to 392°	20.1 lpm		6.18 in	5.59 in	5 in	**12C230**
	7 L	±0.01°C	-40° to 200°	-40° to 392°	20.1 lpm		6.18 in	5.59 in	5 in	**12C234**
	15 L	±0.01°C	-30° to 200°	-22° to 392°	20.1 lpm		8.35 in	10.88 in	5.5 in	**12C240**
	15 L	±0.01°C	-40° to 200°	-40° to 392°	20.1 lpm		8.35 in	10.88 in	5.5 in	**12C244**
MX	7 L	±0.07°C	-20° to 135°	-4° to 275°	12.8 lpm	Pressure	6.18 in	5.59 in	5 in	**12C227** †
	15 L	±0.07°C	-30° to 135°	-22° to 275°	12.8 lpm		5.5 in	10.88 in	8.35 in	**12C237**
	20 L	±0.07°C			12.8 lpm		9.85 in	5.5 in	12.45 in	**12C247**
Standard Digital	7 L	±0.04°C	-20° to 170°	-4° to 338°	11 lpm		6.18 in	5.59 in	5 in	**12C228** †
	15 L	±0.04°C	-30° to 170°	-22° to 338°	11 lpm		5.5 in	10.88 in	8.35 in	**12C238**
	20 L	±0.04°C			11 lpm		9.85 in	5.5 in	12.45 in	**12C248**

** Horizontal. † Vertical.*

Chillers

12C376

56DM24

60EL70

Benchtop Chillers—Provide consistent cooling for a variety of applications ranging from lasers and analytical equipment to reactors and manufacturing equipment. All units include displays and liquid level gauges or monitors.

Durachill Portable Chillers—Direct steady cooling to remove heat for a variety of applications including laser etching, AA furnaces, ICP, rotary evaporators, vacuum systems, reaction vessels, plasma etching, and condenser cooling. They feature a self-cleaning filter system, front reservoir, and a liquid level monitor that prevents pump failure. The compact design takes up less floor space.

Recirculating Chillers—Have a powerful, speed-controlled pump to cool fluids. The pump has an indirect continuous adjustment of the maximum pressure and flow rate to keep temperatures stable. Chillers include insulated bath reservoirs that allow the use of thermofluid in the external cooling circle without refilling. They have a visible fluid level display and a drain valve for safe emptying along with an accessible air filter for cleaning.

Cap.	Temp. Accuracy	Temp. Range (C)	Temp. Range (F)	Amps	Flow Rate	Pump Type	Item No.
PolyScience Benchtop Chillers, LED Display							
Not Heated or Refrigerated							
0.7 L	±0.1°C	-10° to 30°	14° to 86°	12 A	7.9 lpm	Centrifugal	**12C360**
0.7 L	±0.1°C	-10° to 30°	14° to 86°	12 A	13.2 lpm		**12C361**
Refrigerated							
0.7 L	±0.1°C	-5° to 50°	23° to 122°	12 A	7.9 lpm	Centrifugal	**12C358**
0.7 L	±0.1°C	-20° to 40°	-4° to 104°	12 A	9.8 lpm	Turbine	**12C364**
0.7 L	±0.1°C	-5° to 50°	23° to 122°	12 A	13.2 lpm	Centrifugal	**12C359**
0.7 L	±0.1°C	-20° to 40°	-4° to 104°	12 A	14.8 lpm		**12C362**
13.25 L	±0.5°C	5° to 35°	41° to 95°	13 A	13.2 lpm	Positive Displacement	**12C376**
PolyScience Durachill Portable Chillers, Digital Display							
Heated and Refrigerated							
4.2 L	±0.1°C	-10° to 70°	14° to 158°	13.6 A	9.8 lpm	Positive Displacement	**56DM24**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	16.2 A	9.8 lpm		**56DM26**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	17.3 A	9.8 lpm		**56DM28**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	12 A	13.2 lpm		**56DM30**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	13.5 A	13.2 lpm	Turbine	**56DM31**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	13.7 A	13.2 lpm		**56DM25**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	16.3 A	13.2 lpm		**56DM27**
4.2 L	±0.1°C	-10° to 70°	14° to 158°	17.4 A	13.2 lpm		**56DM29**
IKA RC Recirculating Chillers, Digital Display							
Refrigerated							
4 L	±0.1°C	-20° to 80°	-4° to 176°	—	18 lpm	Pressure, Suction	**60EL70**
4 L	±0.05°C	-30° to 80°	-22° to 176°	—	18 lpm		**60EL71**
5 to 7L	±0.1°C	-30° to 80°	-22° to 176°	—	31 lpm	Pressure	**60EL73**
5 to 7L	±0.2°C	-30° to 80°	-22° to 176°	—	31 lpm	Pressure, Suction	**60EL72**

Analog
33ZZ17

Electronic
33ZZ40

heidolph North America

Benchtop Autoclaves

Self-contained design eliminates external plumbing and hardwiring. 316 stainless steel chamber ensures high corrosion resistance. Fast exhaust allows quick cycle time of solids and slow exhaust prevents media and liquid boil-over. Closed-door drying system maintains sterility. Drying cycle removes residual moisture after sterilization. Continuous pressure purge eliminates air pockets. Large-capacity water reservoir helps avoid frequent fill-ups. Auto shut-off feature saves energy. Standard safety features include a heat-insulated, double locking door; automatic low-water level shut-off; over-temperature cut-off; and over-pressure valve. UL Classified.

Analog—Manually-operated sterilizers include a 60-min. cycle timer, temperature selection from 100°C to 134°C (212°F to 273°F), and combination pressure and temperature gauge with peak indicator.

Electronic—Digital display shows temperature, pressure, and running time. Up to 59-min. sterilization time and temperature selection from 105°C to 137°C (221°F to 279°F). In-line particle filter protects valves. Low-water alarm sounds when reservoir needs refilling. Feature electronic pressure and temperature sensors. Standby heating keeps chamber warm for quicker cycles. Models with printer meet GLP requirements. EA models have preloaded cycles for sterilizing packs, pouches, pipette racks, and instruments.

Cap.	Watts	Chamber Dia.	Chamber H	Voltage (AC)	Item No.
Analog Autoclaves					
7.5 L	1,050 W	7 1/64 in	12 1/64 in	120V AC	**33ZZ17**
23 L	1,400 W	9 1/64 in	16 13/16 in	120V AC	**33ZZ27**
34.4 L	2,200 W	12 13/64 in	18 15/32 in	220V AC	**33ZZ44**
65 L	2,400 W	15 in	20 in	220V AC	**33ZZ38**
84 L	2,400 W	15 in	27 1/64 in	220V AC	**33ZZ41**
Electronic Autoclaves w/Printer					
34.4 L	2,200 W	12 ½ in	18 15/32 in	220V AC	**33ZZ48**
65 L	2,400 W	15 in	20 in	220V AC	**33ZZ40**
84 L	2,400 W	15 in	27 1/64 in	220V AC	**33ZZ42**
Electronic Autoclaves w/Printer - EA Models					
23 L	1,400 W	9 1/64 in	16 13/16 in	120V AC	**33ZZ30**
84 L	2,400 W	15 in	27 1/64 in	220V AC	**33ZZ47**
Environmental Electronic Autoclave w/Printer					
23 L	1,400 W	9 1/64 in	16 13/16 in	220V AC	**33ZZ35**
Kwiklave Electronic Autoclave w/Printer					
23 L	1,400 W	9 1/64 in	16 13/16 in	220V AC	**33ZZ31**

8NAD4

9V391

BioClave Research Benchtop Autoclaves

Benchmark Scientific

Provide automatic, full-cycle operation—fill, sterilize, exhaust, dry—at the push of a button. Self-contained reservoirs for clean and used water do not require direct hookup to water service. Chamber pressure, temperature, and cycle state/remaining time are shown on large, clear digital displays. Safety interlock keeps door closed until pressure reaches 0 psi. Include stainless steel rack, trays, tray handle, draining hoses, and spare door gasket and fuses.

Standard 4-cycle options are preset for sterilizing liquids, wrapped instruments, or unwrapped instruments/plasticware, and can be adjusted as needed for special applications. 5th option, Dry Only, can extend drying time at the end of a cycle. A USB drive can be inserted and used as a method for storing a report of the cycle. CE Certified.

Description	Cap.	Watts	Temp. Range	Chamber Dia.	Chamber L	Item No.
Mini Autoclave	8 L	950 W	121°C to 134°C	6 ¾ in	15 ½ in	**8NAD4**
Autoclave	16 L	1,600 W	121°C to 134°C	9 in	13 ¾ in	**9V391**

61NH88

61NJ04

61NJ13

LABCONCO

Labware Washers

- 22.6 in x 21.3 in x 18.8 in interior clearance
- 93°C (199°F) rinse temp.
- 12.9 L of water used
- 304 stainless steel construction
- See Grainger.com for optional racks and other accessories

Dual washing and draining pumps reduce cross-contamination risk. Purified water pump brings nonpressurized or pressurized purified water into the tank for rinsing. 96 gpm recirculation rate. Fine-mesh drain filter traps debris. Steam cycle penetrates and removes dried residue. Scrubbers are designed to wash and dry beakers and other wide-mouth or specialized glassware.

SteamScrubber washers include upper and lower standard racks. Upper rack has side release latches for easy lift-out and an extra wash arm. Feature a forced air drying system, 25° to 80°C (77° to 176°F). **FlaskScrubber** models offer a lower spindle rack and forced air drying through spindles, 25° to 80°C (77° to 176°F).

Description	Phase	Voltage	Amps	H	W	D	Item No.
SteamScrubber							
Undercounter Glassware Washers	Single	115V	20 A	32.1 in to 36 in	24.1 in	27.7 in	**61NH88**
	Single	208/230V	20 A				**61NH89**
	Three	208/230V	30 A				**61NH90**
Undercounter Glassware Washers with Window	Single	115V	20 A				**61NH91**
	Single	208/230V	20 A				**61NH92**
	Three	208/230V	30 A				**61NH93**
Freestanding Glassware Washers	Single	115V	20 A	32.2 in to 36.1 in	24.3 in	27.8 in	**61NH94**
	Single	208/230V	20 A				**61NH95**
	Three	208/230V	30 A				**61NH96**
Freestanding Glassware Washers with Window	Single	115V	20 A				**61NH97**
	Single	208/230V	20 A				**61NH98**
	Three	208/230V	30 A				**61NH99**
FlaskScrubber							
Undercounter Glassware Washers	Single	115V	20 A	32.1 in to 36 in	24.1 in	27.7 in	**61NJ01**
	Single	208/230V	20 A				**61NJ02**
	Three	208/230V	30 A				**61NJ03**
Undercounter Glassware Washers with Window	Single	115V	20 A				**61NJ04**
	Single	208/230V	20 A				**61NJ05**
	Three	208/230V	30 A				**61NJ06**
Freestanding Glassware Washers	Single	115V	20 A	32.2 in to 36.1 in	24.3 in	27.8 in	**61NJ07**
	Single	208/230V	20 A				**61NJ08**
	Three	208/230V	30 A				**61NJ09**
Freestanding Glassware Washers with Window	Single	115V	20 A				**61NJ10**
	Single	208/230V	20 A				**61NJ11**
	Three	208/230V	30 A				**61NJ12**
FlaskScrubber Vantage							
Freestanding Glassware Washers with Window and LED Light	Single	208/230V	20 A	32.2 in to 36.1 in	32.2 in	27.8 in	**61NJ13**
	Three	208/230V	30 A				**61NJ14**

20XD74

52RX42

39J353

53KA41

36C027

Ultrasonic Cleaners

Inaudible ultrasonic vibrations safely clean metal and plastic instruments, machinery, and parts. Size, timing, and heat options are available for a variety of industrial and laboratory cleaning tasks, and models include a cover.

Note: Operation requires a basket or tray for both Branson and Elma Ultrasonics models, sold separately. Search on "Branson Baskets" or "Branson Trays" or "Baskets for Elma Ultrasonics" on Grainger.com.

Tank Cap.	Tank H	Tank W	Tank D	Hz	Voltage	Timer Range	Cleaning Mode	Brand	Item No.
Heated Ultrasonic Cleaners									
Analog Timer									
0.2 gal	2 3/8 in	7 1/2 in	3 19/64 in	37	110/120V	1 to 30 min	Degas, Heat, Sweep	Elma Ultrasonics	36C008
0.7 gal	3 5/16 in	9 3/8 in	5 in	37	115V		Heat, Sweep	Elma Ultrasonics	55MX69
7 gal	6 1/4 in	35 3/4 in	8 in	50		1 to 20 min	Degas, Heat	Raytech	20XD74
Digital Timer									
0.25 gal	2 1/4 in	7 1/2 in	3 19/64 in	37	110/120V	1 to 30 min	Degas, Heat, Sweep	Elma Ultrasonics	52RX42
0.5 gal	3 7/8 in	5 7/8 in	5 13/32 in	37				Elma Ultrasonics	52RX44
0.5 gal	4 in	5 1/2 in	5 1/2 in	40	120V	0 to 99 min, Continuous Run		Branson	39J353
0.75 gal	3 7/8 in	9 3/8 in	5 13/32 in	37	110/120V	1 to 30 min		Elma Ultrasonics	52RX45
0.75 gal	4 in	9 1/2 in	5 1/2 in	40	120V	0 to 99 min, Continuous Run		Branson	39J357
1 gal	5 7/8 in	9 3/8 in	5 in	37	110/120V	1 to 30 min		Elma Ultrasonics	52RX46
1.5 gal	5 7/8 in	11 3/4 in	5 7/64 in	37				Elma Ultrasonics	52RX47
1.5 gal	6 in	11 1/2 in	6 in	40	120V	0 to 99 min, Continuous Run		Branson	39J361
2.5 gal	5 7/8 in	11 3/4 in	9 13/32 in	37	110/120V	1 to 30 min		Elma Ultrasonics	52RX48
2.5 gal	6 in	11 1/2 in	9 1/2 in	40	120V	0 to 99 min, Continuous Run		Branson	39J365
3.5 gal	7 7/8 in	11 3/4 in	9 13/32 in	37	110/120V	1 to 30 min		Elma Ultrasonics	52RX49
5 gal	7 7/8 in	12 7/8 in	11 13/16 in	37				Elma Ultrasonics	52RX50
5.5 gal	6 in	19 1/2 in	11 1/2 in	40	120V	0 to 99 min, Continuous Run		Branson	39J369
7.5 gal	7 7/8 in	19 7/8 in	11 13/16 in	37	110/120V	1 to 30 min		Elma Ultrasonics	52RX51
50 gal	14 in	34 in	18 in	40	220/240V 1-Phase	1 to 99 min	Degas, Heat	Shiraclean	53KA41
Mechanical Timer									
0.5 gal	4 in	5 1/2 in	5 1/2 in	40	120V	0 to 99 min, Continuous Run	Heat, Sweep	Branson	39J352
0.75 gal	4 in	9 1/2 in	5 1/2 in	40				Branson	39J356
1.5 gal	6 in	11 1/2 in	6 in	40				Branson	39J360
2.5 gal	6 in	11 1/2 in	9 1/2 in	40				Branson	39J364
5.5 gal	6 in	19 1/2 in	11 1/2 in	40				Branson	39J368
Heated Ultrasonic Cleaners with Drain									
Analog Timer									
1.3 gal	5 7/8 in	9 3/8 in	5 7/64 in	25/45	110/120V	1 to 15 min	Degas, Heat, Sweep	Elma Ultrasonics	36C055
5 gal	7 7/8 in	13 in	11 51/64 in	25/45				Elma Ultrasonics	36C058
Digital Timer									
0.7 gal	3 7/8 in	9 3/8 in	5 13/32 in	37/80	110/120V	1 to 60 min	Degas, Heat, Sweep	Elma Ultrasonics	36C022
1.5 gal	5 7/8 in	11 3/4 in	5 29/32 in	37/80				Elma Ultrasonics	36C023
1.8 gal	3 7/8 in	19 7/8 in	5 13/32 in	37/80				Elma Ultrasonics	36C024
3.3 gal	7 7/8 in	11 3/4 in	9 13/32 in	37/80				Elma Ultrasonics	36C025
4.7 gal	7 7/8 in	12 7/8 in	11 51/64 in	37/80				Elma Ultrasonics	36C026
7.4 gal	7 7/8 in	19 7/8 in	11 51/64 in	37/80				Elma Ultrasonics	36C027
7.9 gal	11 3/4 in	11 3/4 in	11 1/2 in	25/45	220/240V 1-Phase	1 to 30 min		Elma Ultrasonics	53KA45
13 gal	19 3/4 in	11 3/4 in	11 13/16 in	25/45				Elma Ultrasonics	53KA46
15 gal	13 3/4 in	19 3/4 in	13 in	25/45				Elma Ultrasonics	53KA47
22 gal	19 7/10 in	13 in	19 7/10 in	25/45	208 3-Phase			Elma Ultrasonics	53KA48
23.8 gal	11 3/4 in	23 5/8 in	19 45/64 in	37	220/240V 1-Phase			Elma Ultrasonics	36C021
33.3 gal	13 3/4 in	23 5/8 in	13 in	25/45	208 3-Phase			Elma Ultrasonics	53KA49
42.8 gal	17 3/4 in	23 5/8 in	23 39/64 in	25/45				Elma Ultrasonics	53KA50
67.4 gal	20 1/2 in	29 1/2 in	25 39/64 in	25/45				Elma Ultrasonics	53KA51
Unheated Ultrasonic Cleaners									
Digital Timer									
0.25 gal	2 1/4 in	7 1/2 in	3 19/64 in	37	110/120V	1 to 30 min	Degas, Sweep	Elma Ultrasonics	52RX43
Mechanical Timer									
0.5 gal	4 in	5 1/2 in	5 1/2 in	40	120V	0 to 99 min, Continuous Run	Sweep	Branson	39J351
0.75 gal	4 in	9 1/2 in	5 1/2 in	40				Branson	39J355
1.5 gal	6 in	11 1/2 in	6 in	40				Branson	39J359
2.5 gal	6 in	11 1/2 in	9 1/2 in	40				Branson	39J363
5.5 gal	6 in	19 1/2 in	11 1/2 in	40				Branson	39J367
No Timer									
5 gal	14 in	16 in	15 5/8 in	25	—	0 to 99 min, Continuous Run	Sweep	Branson	437K07
10 gal	16 in	20 in	17 5/8 in	25				Branson	437K08
Unheated Ultrasonic Cleaner with Drain									
Digital Timer									
3.7 gal	3 7/8 in	19 7/8 in	11 51/64 in	37	110/120V	1 to 30 min	Degas, Sweep	Elma Ultrasonics	36C017
Unheated Ultrasonic Sieve Cleaner									
Analog Timer									
1.4 gal	5 1/8 in	9 3/8 in	9 13/32 in	37	115V	1 to 30 min	Degas, Sweep	Elma Ultrasonics	55MX80
Unheated Mini Ultrasonic Cleaner									
Digital Timer									
15 oz	2 1/4 in	6 1/2 in	3 1/2 in	47	117V	0 to 5 min	Sweep	Branson	3KWR7

3KWF4

42W979

Ultrasonic Cleaning Concentrates

Designed for maximum effectiveness with ultrasonic cleaners.

Metal Cleaners—Metal 1 works on copper, brass, and steel substrates. Removes cutting and polishing oils and makes soils easy to remove.

Metal 2 and 3 work on ferrous metals, copper, and stainless steel, plus alloys of copper, steel, and titanium. Metal 3 acts as an emulsifier to prevent soil from redepositing.

General Purpose Cleaner—Removes soils, fingerprints, dust, light oils, and greases.

Industrial Strength Cleaner—Removes grease, oils, and particulates from mechanical components. Cleans shop oils and light carbon deposits from valves and fittings.

Alconox Detergents—Concentrated formula removes soil, grease, oils, solvents, chemicals, blood, and tissue. Use on glass, metals, ceramics, plastic, and fiberglass.

Citranox Detergents—Contain acid ingredients for removing scale, metal oxides, salts, and inorganic residues. Phosphate-free.

Description	Size	Item No.	Pkg. Qty.
Branson			
Metal 1 Cleaner, Liquid	1 gal	3KWF7	4
Metal 2 Cleaner, Liquid	1 gal	3KWG1	4
Metal 3 Cleaner, Liquid	1 gal	3KWG4	4
General Purpose Cleaner, Liquid	1 gal	3KWF4	4
Industrial Strength Cleaner, Liquid	1 gal	3KWG7	4
Alconox			
Alconox Detergents, Powder	4 lb	42W979	9
	25 lb	42W980	1
	50 lb	42W981	1
	100 lb	42W982	1
Alconox Detergents, Liquid	5 gal	42X026	1
	15 gal	42X027	1
Citranox Detergents, Powder	0.5 oz	42W985	12
	300 lb	42W983	1
Citranox Detergent, Liquid	55 gal	42X028	1

LUXO MICROSCOPES by UNITRON

Digital Microscopes

MIDAS Color handheld inspection system captures and documents images using a polarizing filter and 5.0 MP USB 2.0 camera. Has a monocular eyepiece and is used for inspection, verification, and examination in criminology, restoration, currency, and gemstone and mineral applications. ESD-safe. Each includes Windows and Mac software plus instructions.

5CHG5

5CHG7

Optical Magnification Range	Light Source	Maximum Magnification Capability	Working Distance	Horizontal Extension	Vertical Extension	Stand Type	Mfr. Model	Item No.
10X to 200X	LED	200X	150 mm	—	—	—	MIDAS	**5CHG5**
				6 3⁄32 in	6 3⁄32 in	Single Arm Boom	MIDAS-ST	**5CHG7**

35Y979

45UA30

32WA95

LSS · LW Scientific · Supplier Diversity · ACCU-SCOPE

Microscopes

Instruments for use in research laboratories, industrial processes, clinical analysis, and educational configurations.

Clinical—Can magnify up to 1000X with 100X oil immersion lens. Includes dispersion filter and blue/yellow/green filters. Used for diagnosis and to identify pathogens in hospitals, medical and veterinary clinics, research laboratories, and universities.

Zoom Stereo—Gives two paths of light, allowing a 3D view of the specimen and provides focus and clarity for critical applications, such as dissection, microwelding, examining fossils and minerals, and in medical and biological applications.

Optical Magnification Range	Eyepiece Type	Light Source	Base Dimensions	Brand	Item No.
Clinical Microscope					
40X to 1000X	Monocular	Quartz Halogen	5 ½ in x 5 in	LSS	**35Y979**
Dual Magnification Stereoscopes					
10X to 30X	Binocular	LED	6 in x 8 ½ in	LW Scientific	**45UA30**
10X to 30X	Binocular	None	6 ½ in x 9 in	LW Scientific	**45UA31**
Zoom Stereo Microscope					
7X to 45X	Binocular	LED	8 in x 10 ½ in	LW Scientific	**45UA29**
Stereo Microscope					
8X to 35X	Trinocular	LED	—	LSS	**35Y988**
Microscopes					
0.67X to 45X	Trinocular	—	11 13⁄32 in x 12 ½ in	Accu-Scope	**32WA84**
0.67X to 45X	Trinocular	LED	11 13⁄32 in x 12 ½ in	Accu-Scope	**32WA95**
0.67X to 45X	Trinocular	—	10 in x 20 5⁄16 in	Accu-Scope	**32WA96**

6PTJ6

LSS · globe SCIENTIFIC INC. · Heathrow Scientific

Microscope Storage and Slides

Includes	Color	Thickness	Material	Brand	Item No.	Pkg. Qty.
Microscope Slides						
75 mm x 25 mm						
Plain	—	1 mm	White Glass	LSS	**20F847**	72
Clipped Corners	—	1 mm	White Glass	LSS	**20F849**	72
Single Frosted	—	1 mm	White Glass	LSS	**20F854**	72
Premium	—	1 mm	White Glass	LSS	**20F855**	72
	White	1 mm	White Glass	LSS	**20F856**	72
Double Frosted	—	1 mm	White Glass	LSS	**20F859**	72
—	White	1 mm	White Glass	LSS	**20F860**	72
Ground Edges	White	1 mm	Single Frosted Glass	LSS	**20F862**	72
	—	1 mm	Green Glass	LSS	**20F863**	72
Ground Edges, Clipped Corner	Clear	1 mm	Green Glass	LSS	**20F865**	72
	Frosted	1 mm	Green Glass	LSS	**20F866**	72
Ground Edges	Frosted	1 mm	Green Glass	LSS	**20F867**	72
25 mm x 75 mm						
—	Clear	1.1 mm	Glass	Globe Scientific	**46AW45**	144
	Orange	1.1 mm	Glass	Globe Scientific	**46AW49**	144
	Yellow	1.1 mm	Glass	Globe Scientific	**46AW53**	144
	Aqua	1.1 mm	Glass	Globe Scientific	**46AW57**	144
	Lilac	1.1 mm	Glass	Globe Scientific	**46AW61**	144
	White	1.1 mm	Glass	Globe Scientific	**46AW65**	144
	Frosted	1.1 mm	Glass	Globe Scientific	**46AW69**	144
	Pink	1.1 mm	Glass	Globe Scientific	**46AW73**	144
	Gold	1.1 mm	Glass	Globe Scientific	**46AW81**	72
Cover Slip						
22 mm x 22 mm						
—	—	0.13-0.16mm	3.3 Borosilicate Glass	LSS	**20F846**	180
Microscope Cover						
24 mm x 50 mm						
—	—	0.13-0.16mm	White Glass	LSS	**20F841**	65
Microscope Cover Slip						
—	—	0.13-0.16mm	3.3 Borosilicate Glass	LSS	**20F845**	69

No. of Slots	Color	Material	W	Brand	Item No.	Pkg. Qty.
Lab Slide Mailer, Reuseable, Polypropylene—6¾ in L						
5	Kraft	Polypropylene	4 in	Heathrow Scientific	**6PTJ6**	25
Slide Boxes, Molded Plastic w/Foam Lining						
25	Blue	Molded Plastic with Blue Lining	3 ½ in	Heathrow Scientific	**8WZU8**	1
25	White	Molded Plastic with White Lining	3 ½ in	Heathrow Scientific	**9NP65**	1
100	Blue	Molded Plastic with Blue Lining	6 ¾ in	Heathrow Scientific	**8CEK2**	1
100	White	Molded Plastic with White Lining	6 ¾ in	Heathrow Scientific	**9X325**	1
Slide Boxes, Polycarbonate w/Foam Lining—8½ in L						
100	Purple	Polycarbonate with Foam Lining	1 ¼ in	Heathrow Scientific	**6PTJ0**	1

DIVERSIFIED WOODCRAFTS

Microscope Storage Cases

Solid oak, hardwood, and oak veneer construction with a chemical-resistant and UV-resistant finish. Solid oak framed glazed doors are hinged with 3-pt. locking handles. 2 fixed and 3 adjustable 1"-thick shelves with weight capacity of 40 lb./sq. ft. Adjustable wire dividers allow for storage of microscopes of various sizes. 8GKY0 holds up to 15 microscopes, 8GKY1 up to 20, and 8RU83 up to 30.

8RU83

Overall H	Overall W	Overall D	Item No.
84 in	24 in	16 in	**8GKY0**
	36 in		**8GKY1**
	48 in		**8RU83**

Adventurer Series
36TW28

HCB Series
3JKJ8

Lab Safety Supply
49DF49

CX Series
54YT12

Analytical and Precision Balances

Adventurer Series—Color touch-screen lets you access 9 application modes including weighing, parts counting, percent weighing, animal/dynamic weighing, and density determination. Analytical model has 2 draftshield doors that open wide on both sides for sample placement. USB ports in front for loading data and in back to connect the balance to a PC. Include AC adapter.

EX Explorer Series—Large 5.7" full-color touchscreen display is removable. Has 13 application modes, 21 weighing units. Frameless draftshield offers anti-static glass, flip-top and large side entry doors on top-mounted bearings on 3 and 4 place balances. 4 programmable touchless sensors for hands-free operation.

Adam Equipment HCB Series—Features capacity tracking, weighing, parts counting, percentage weighing and accumulation/totalization modes. Internal calibration with built-in mass and overload protection withstand up to 200kg. USB and RS-232 with cables. Stackable. Built-in rechargeable battery and AC adapter.

Lab Safety Supply—Features application modes for weighing, percent weighing, parts counting, check weighing, display hold, accumulate, and totalize.

CR Series—Balance provides basic weighing functionality. Built with slim, stackable design, and an enlarged platform. Also features stability indicator, mechanical and software overload/underload protection and auto shut-off. 3 AA batteries included.

CX Series—These balances have a battery life of up to 1,000 continuous hours, allowing for uninterrupted operation. They feature slim, stackable, and lightweight design. The streamlined 2-button operation means that the balance can be operated easily, and large backlit LCD display enables easy viewing of weighing results. 3AA batteries are included.

Scout SPX Series—Portable balances feature easy-to-use button operation, mechanical and software protection against shock and overload. Operate on AC adapter (included) or 4 AA batteries (not included) with auto-shutoff.

Cap.	Readability	Weighing Surface D	Weighing Surface W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Mfr. Model	Item No.
Analytical Digital Balances									
Adventurer Series									
120 g	0.0001 g	3 ½ in	3 ½ in	9 1/64 in	13 15/16 in	13 25/64 in	Ohaus	AX124/E	**36TW26**
EX Explorer Series									
120 g	0.0001 g	3 ½ in	3 ½ in	15 ½ in	9 7/64 in	13 51/64 in	Ohaus	EX124	**13P610**
220 g	0.0001 g	3 ½ in	3 ½ in	15 ½ in	9 7/64 in	13 51/64 in	Ohaus	EX224	**13P611**
320 g	0.0001 g	3 ½ in	3 ½ in	15 ½ in	9 7/64 in	13 51/64 in	Ohaus	EX324	**13P612**
Precision Digital Balances									
Adventurer Series									
320 g	0.0001 g	3 ½ in	3 ½ in	9 1/64 in	13 15/16 in	13 25/64 in	Ohaus	AX324	**36TW39**
5,200 g	0.01 g	7 51/64 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX5202	**36TW49**
1,500 g	0.01 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX1502/E	**36TW28**
1,500 g	0.01 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX1502N/E	**36TW29**
2,200 g	0.01 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX2202/E	**36TW31**
4,200 g	0.01 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX4202	**36TW42**
4,200 g	0.01 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX4202/E	**36TW43**
4,200 g	0.1 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX4201/E	**36TW41**
8,200 g	0.1 g	7 13/16 in	6 ⅞ in	9 1/64 in	13 15/16 in	3 15/16 in	Ohaus	AX8201/E	**36TW57**
EX Explorer Series									
420 g	0.001 g	—	5 7/64 in	15 ½ in	9 7/64 in	13 51/64 in	Ohaus	EX423	**13P614**
1,100 g	0.001 g	—	5 7/64 in	15 ½ in	9 7/64 in	13 51/64 in	Ohaus	EX1103	**13P616**
4,200 g	0.01 g	8 in	7 ½ in	15 ½ in	9 7/64 in	3 29/32 in	Ohaus	EX4202	**13P618**
10,200 g	0.1 g	8 in	7 ½ in	15 ½ in	9 7/64 in	3 29/32 in	Ohaus	EX10201	**13P622**
35,000 g	0.1 g	14 ⅞ in	12 ¼ in	17 7/16 in	14 27/32 in	4 23/32 in	Ohaus	30057101	**19ZD65**
Adam Equipment HCB Series									
120 g	0.001 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 123	**3JKJ8**
150 g	0.005 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 153	**3JKK1**
600 g	0.02 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 602	**3JKK7**
1,000 g	0.01 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 1002	**3JKK9**
1,500 g	0.05 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 1502	**3JKL2**
3,000 g	0.1 g	—	4 11/16 in	9 ½ in	6 23/32 in	3 7/64 in	Adam	HCB 3001	**3JKL4**
Portable Digital Balances									
Lab Safety Supply									
200 g	0.01 g	5 ⅜ in	4 45/64 in	8 13/32 in	8 in	2 19/64 in	LSS	30467949	**49DF46**
400 g	0.1 g	5 ⅜ in	7 ½ in	8 13/32 in	8 in	2 19/64 in	LSS	30467950	**49DF47**
600 g	0.1 g	5 ⅜ in	7 ½ in	8 13/32 in	8 in	2 19/64 in	LSS	30467951	**49DF48**
2,000 g	0.1 g	5 ⅜ in	7 ½ in	8 13/32 in	8 in	2 19/64 in	LSS	30467952	**49DF49**
6,000 g	1 g	5 ⅜ in	7 ½ in	8 13/32 in	8 in	2 19/64 in	LSS	30467953	**49DF50**
CR Series									
200 g	0.1 g	5 ¼ in	5 in	5 in	5 ½ in	1 ⅝ in	Ohaus	30428204	**54YT18**
CX Series									
200 g	0.1 g	5 ⅝ in	5 in	5 in	5 ⅜ in	1 ⅝ in	Ohaus	30428199	**54YT12**
2,000 g	1 g	5 ⅝ in	5 in	5 in	5 ⅜ in	1 ⅝ in	Ohaus	30428202	**54YT13**
Scout SPX Series									
220 g	0.01 g	4 in	4 in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX222	**49WA10**
420 g	0.01 g	4 in	4 in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX422	**49WA11**
420 g	0.1 g	4 in	4 in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX421	**49WA15**
620 g	0.01 g	4 in	4 in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX622	**49WA12**
620 g	0.1 g	6 ⅞ in	5 ½ in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX621	**49WA16**
2,200 g	0.1 g	6 ⅞ in	5 ½ in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX2201	**49WA17**
6,200 g	0.1 g	6 ⅞ in	5 ½ in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX6201	**49WA18**
8,200 g	1 g	6 ⅞ in	5 ½ in	8 45/64 in	8 in	2 7/64 in	Ohaus	SPX8200	**49WA19**

8MZ63

8RAN7

Moisture Analyzers

Instruments provide quick moisture content measurements for pharmaceutical, chemical, food, beverage, wastewater treatment, and research applications. GMP/GLP data output.

Ohaus—8MZ63 nonglass infrared heating element for drying samples. 49WD15 has halogen heating and is easy to set up with press/hold time buttons to set drying parameters. 49WD17 ensures data safety with set-up and lock temperature settings and method parameters with administrator access. Has 4.3" TFT color touchscreen display.

A&D—Feature timed or auto shut-off modes with process temperatures up to 200°C. RS-232 port. Has WinCT Moisture Software standard for 3KWP9 and 9LE54. Optional for 3KWP6.

Readability	Max. Cap.	Drying Temp. Range	Pan Dim.	Mfr. Model	Item No.
Moisture Analyzers					
Ohaus					
0.01g/0.1%	110 g	50° to 160°C	3.50 in dia	MB23	**8MZ63**
0.01%/0.001gr	90 g	50° to 160°C	3.50 in dia	MB27	**49WD15**
0.01%/0.001gr	120 g	40° to 200°C	3.50 in dia	MB120	**49WD17**
A&D Weighing					
0.001g	51 g	50° to 200°C	3.35 in dia	MX-50	**3KWP9**
0.002g	51 g	50° to 200°C	3.35 in dia	MF-50	**3KWP6**
0.005g	51 g	50° to 200°C	3.35 in dia	ML-50	**8RAN7**
0.0001g	71 g	30° to 200°C	3.35 in dia	MS-70	**9LE54**

Description	Material	Item No.	Pkg. Qty.
Accessories			
Ohaus			
Reusable Sample Pans—Aluminum	Metal	**5RCZ8**	3
Round Weighing Boat—Aluminum	Metal	**22UR94**	80
Fiber Sample Pads	Glass Fiber	**5RCZ9**	200

9U915

9RVK3

41U671

9HW91

Weighing Dishes and Paper

Round Weighing Dishes—Ideal for general purpose weighing, dispensing, storage, drying, and evaporating. Made of light gauge aluminum, no coating, and oil-free. Crimped sides.

Hexagonal Weighing Dishes—Designed for nonslip handling when weighing, dispensing, or pouring. Flat bottom for stability.

Square Weighing Dishes—General purpose, antistatic dishes withstand temperatures to 180°F. Flexible for easy pouring. Resistant to dilute acids, alcohols, and bases.

Pouring Dishes—Use for easy pouring and dispensing of samples. Withstand temperatures up to 200°F.

Weighing Paper—Semitransparent, high-gloss calendared glassine paper is an environmentally friendly alternative to styrene weigh boats. Very smooth surface does not absorb moisture while conveying gelatinous samples to and from balance. Easy to fold. Nitrogen free.

Cap.	L	W	D	Dia.	Color	Brand	Item No.	Pkg. Qty.
Round Weighing Dishes - Aluminum								
40 mL	—	—	¼ in	70 mm	Gray	Eagle Thermoplastics, Inc.	**8YAR3**	50
60 mL	—	—	5/16 in	102 mm	Gray	Eagle Thermoplastics, Inc.	**9U915**	50
Flanged Edge								
75 mL	—	—	1 13/16 in	62 mm ID, 70 mm OD	Gray	Eagle Thermoplastics, Inc.	**8UPJ9**	100
200 mL	—	—	1 ⅛ in	110 mm ID, 127 mm OD	Gray	Eagle Thermoplastics, Inc.	**9F177**	50
Round Weighing Dishes with Tab - Aluminum								
60 mL	—	—	—	57 mm	Silver	Qorpak	**41U671**	1000
20 mL	—	—	—	43 mm	Silver	Qorpak	**41U672**	1000
80 mL	—	—	—	70 mm	Silver	Qorpak	**41U673**	1000
Hexagonal Weighing Dishes - Polystyrene								
200 mL	—	—	⅞ in	—	White	Eagle Thermoplastics, Inc.	**8AKX8**	500
350 mL	—	—	1 ¼ in	—	White	Eagle Thermoplastics, Inc.	**9RVK3**	500
Square Weighing Dishes - Polystyrene								
20 mL	1 ⅝ in	1 ⅝ in	5/16 in	41 7/25 mm	Natural	Eagle Thermoplastics, Inc.	**4YMV5**	500
20 mL	1 ⅝ in	1 ⅝ in	5/16 in	41 7/25 mm	Blue	Eagle Thermoplastics, Inc.	**8AWJ1**	500
330 mL	5 ½ in	5 ½ in	⅞ in	—	Natural	Eagle Thermoplastics, Inc.	**9HW92**	500
330 mL	5 ½ in	5 ½ in	⅞ in	—	Blue	Eagle Thermoplastics, Inc.	**9HW91**	500
Pouring Dishes - Polystyrene								
20 mL	2 ¼ in	1 ¾ in	5/16 in	—	White	Eagle Thermoplastics, Inc.	**8AG69**	250
140 mL	5 ⅜ in	3 ½ in	1 in	—	White	Eagle Thermoplastics, Inc.	**8WNW5**	250
Weighing Paper								
—	3 in	3 in	—	—	White	LSS	**12L005**	500
—	4 in	4 in	—	—	White	LSS	**12L006**	500
—	6 in	6 in	—	—	White	LSS	**12L007**	500

TROEMNER

Precision Weight Sets

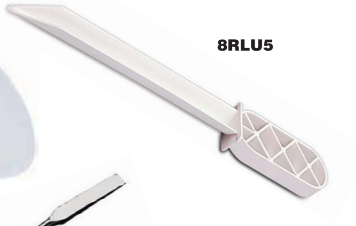
- Class 1
- For individual calibration weights, go to Grainger.com

Precision analytical calibration weights are made of highly polished Troemner Alloy 8 stainless steel for low magnetic susceptibility, uniform consistency, and high corrosion resistance. NIST items include calibration certificate.

9EZG8

No. of Pieces	Nom. Mass	Mfr. Model	STANDARD Item No.	NIST Item No.
24	500g to 1mg	7219-1	**9EYJ2**	**8CFG1**
23	200g to 1mg	7221-1	**8CJC5**	**8UPM1**
22	200g to 1mg	7223-1	**8TJU2**	**9G728**
21	100g to 1mg	7228-1	**9EZG8**	—
9	100g to 1g	7224-1	—	**8RH58**

21TR61


8RLU5

21TZ92

5EER2

Scoops, Spatulas and Spoons

SCOOPS

Polyethylene—Nonspill shape scoops have a closed back and rounded corners for easy cleaning. Offer an ergonomically angled handle.

SPATULAS

Polyamide—Glass fiber reinforced. Resist solvents but not recommended for use with acids or oxidizing agents. 9MW38 is a double spatula and 9AU83 is a spoon/spatula.

Stainless Steel—Rounded blade end won't damage sensitive materials.

V-Shape—Strong enough to break up caked materials. 8RLU5 is individually wrapped, sterile.

SPOONS

Polypropylene—Steam autoclavable at 250°F (121°C). Chemical- and corrosion-resistant.

Polystyrene—Individually wrapped, sterile. 8DAL7 is flat-bottomed for use as a weighing dish.

Stainless Steel—Double-ended spoons have 2 bowl sizes. Spoon/spatulas feature a spatula end and a curved spoon end for retrieving solids and thick liquids in tall containers.

Cap.	Overall L	Overall W	Color	Brand	Item No.	Pkg. Qty.
Scoops						
Polyethylene						
1 L/1 qt	25.4 cm, 10 in	5 ½ in, 14 cm	Opaque	SP Scienceware	**21TR61**	1
4 L/1 gal	38.1 cm, 15 in	7 ⅛ in, 18.1 cm	Opaque	SP Scienceware	**21TT18**	1
Spatulas						
Polyamide						
—	7 3/32 in, 18.03 cm	1.3 cm, 33/64 in	Red	Dynalon	**9MW38**	10
—	7 3/32 in, 18.03 cm	2.22 cm, ⅞ in	Red	Dynalon	**9AU83**	10
Stainless Steel						
—	22.86 cm, 9 in	—	Nickel Stainless	Chemglass	**21TZ92**	1
—	30.48 cm, 12 in	—	Nickel Stainless	Chemglass	**21UC48**	1
—	45.72 cm, 18 in	—	Nickel Stainless	Chemglass	**21UC97**	1
V-Shape Spatulas						
Sterile, Polystyrene						
—	9 in, 22.9 cm	—	White	SP Scienceware	**8RLU5**	100
Spoons						
Non-Sterile, Polypropylene						
4.93 mL/1 tsp	7 in, 17.8 cm	3 cm, 1 3/16 in	White	SP Scienceware	**4YMT2**	12
Sterile, Polystyrene						
1.25 mL/1/4 tsp	7 in, 17.8 cm	2 cm, 13/16 in	White	SP Scienceware	**8AV25**	200
2.46 mL/1/2 tsp	7 in, 17.8 cm	2.5 cm, 1 in	White	SP Scienceware	**9DLM3**	200
4.93 mL/1 tsp	7 in, 17.8 cm	3 cm, 1 3/16 in	White	SP Scienceware	**5EER2**	200
30 mL/1 oz	25.7 cm, 10 ⅛ in	2 3/16 in, 5.6 cm	White	SP Scienceware	**9G723**	25
1.25 mL/0.04 oz	10.3 cm, 4 1/16 in	½ in, 1.3 cm	White	SP Scienceware	**8DAL7**	100
Double Ended Spoons						
304 Stainless Steel						
0.5 mL/2 mL	15 cm, 5 29/32 in	—	Silver	SP Scienceware	**9GDM9**	2
0.8 mL/2.8 mL	18 cm, 7 3/32 in	—	Silver	SP Scienceware	**9W663**	2
1.6 mL/3 mL	8 17/64 in, 21 cm	—	Silver	SP Scienceware	**8AUV3**	2
1.6 mL/3 mL	8 17/64 in, 21 cm	—	Silver	SP Scienceware	**9PMM8**	2
2 mL/8 mL	30 cm, 11 13/16 in	—	Silver	SP Scienceware	**9MC81**	2
Double Ended Spoon/Spatula						
Stainless Steel						
5 mL	12 in, 30.5 cm	3.7 cm, 1 ½ in	White Spatula/ Silver Spoon	SP Scienceware	**9AH31**	1

9KWD5

22LC60

55NT92

36RN34

55NU01

404P65

8PA14

Magnetic and Hotplate Stirrers

DLAB Benchmark BURRELL elements Cole-Parmer stuart heidolph North America UNITED SCIENTIFIC SUPPLIES, INC. SUPPLIER DIVERSITY

- All models have 1 stirring position, except 22LC60 and 22LC59 offer 10

Durable Aluminum plates will not crack or chip. Ceramic plates have a chemical-resistant, reflective white surface that is easy-to-clean. Stainless Steel plates resist corrosion. Digital Magnetic Stirrers are equipped with powerful magnets and motor, giving fast and precise stirring operations. Allow digital PID feedback control for every single point. Provide strong magnetic coupling, ensuring constant stirring along with various time setting modes.

Plate L	Plate W	Plate Dia.	RPM	Load Cap.	Temp. Range	Brand	Item No.
Magnetic Stirrers							
Ceramic Plate							
5 in	5 in	—	0 to 1500	—	—	Dlab	**22CZ34**
5.75 in	8 in	—	60 to 1500	84.5 oz	—	Benchmark	**9KWD5**
Polyester Plate							
4 in	4 in	4 in	15 to 1500	27 oz	—	Burell	**38MW97**
Stainless Steel Plate							
17 in	7 in	—	0 to 1100	13.5 oz	—	Dlab	**22LC60**
Digital Magnetic Stirrers							
Polyester Plate							
—	—	4 in	20 to 1500	—	—	Cole-Parmer Elements	**55NT92**
Glass Plate							
—	—	3.7 in	100 to 1500	—	—	Cole-Parmer Elements	**55NT93**
4.8 in	4.3 in	—	100 to 1500	—	—	Cole-Parmer Elements	**55NT94**
—	—	3.7 in	100 to 1500	—	—	Cole-Parmer Elements	**55NT95**
Ceramic Coated Aluminum Plate							
—	—	13.5 in	100 to 1800	—	—	Stuart	**55NT98**
Hotplate-Stirrers							
Aluminum, Ceramic Plate							
—	—	145 mm	30 to 1400	55.1 lb	20° to 300°C	Heidolph	**36RN34**
—	—	145 mm	100 to 1400	55.1 lb	20° to 300°C	Heidolph	**36RN38**
Ceramic Plate							
0.75 in	—	6 in	50 to 1500	6.25 lb	0° to 350°C	United	**23YX14**
Ceramic Plate, Black							
6 in	6 in	—	50 to 1250	5.3 gal	450°C	Stuart	**55NU71**
Ceramic Plate, Premium White							
6 in	6 in	—	50 to 1250	5.3 gal	450°C	Stuart	**55NU91**
Ceramic Plate							
7.1 in	7.1 in	—	60 to 1500	9 lb	4° to 65°C	Benchmark	**8NCF7**
PVDF Plate							
—	—	104 mm	0 to 2200	13.2 lb	—	Heidolph	**36RN33**
Stainless Steel Plate							
17 in	7 in	—	0 to 1100	13.5 oz	5° to 40°C	Dlab	**22LC59**
—	5.75 in	6 in	50 to 1700	6.25 lb	0° to 350°C	United	**23YX13**

Hotplates

stuart OHAUS Benchmark

Electric hotplates are for light or heavy industrial use. 304 stainless steel construction with a durable ½" aluminum top plate that will not crack or chip. Ceramic plates have a chemical-resistant, reflective white surface that is easy-to-clean.

Plate L	Plate W	Plate Material	Load Capacity	Temp. Range	Brand	Item No.
Digital						
6 in	6 in	Ceramic	5.3 gal	450°	Stuart	**55NU67**
6 in	6 in	Ceramic	5.3 gal	450°	Stuart	**55NU93**
27 in	6.8 in	Aluminum	5.3 gal	5° to 40°	Stuart	**55NU01**
27 in	6.8 in	Ceramic Coated Aluminum	5.3 gal	5° to 40°	Stuart	**55NT96**
Analog						
4 in	4 in	Ceramic	9 lb	5° to 500°	Ohaus	**404P64**
4 in	4 in	Ceramic	9 lb	5° to 500°	Ohaus	**404P65**
7.1 in	7.1 in	Ceramic	9 lb	50 to 380°C80° to 380°	Benchmark	**8PA14**

21R584

401R23

LSS Dynalon Labware quality . value . service Bel-Art • H-B Instrument SP SCIENCEWARE

Magnetic Stir Bars

- PTFE-coated

Shape	Size	Color	Brand	Item No.	Pkg. Qty.
Magnetic Retriever					
Rod	12 in	White	LSS	**21R584**	2
Stir Bar Assortments					
Octagonal	5/16 in x 1 1/2 in, 5/16 in x 1 in, 5/16 in x 2 1/2 in	White	Dynalon	**401R23**	6
Round	1 in x 5/16 in, 1-1/2 in x 5/16 in, 2 in x 5/16 in	White	SP Scienceware	**8DK48**	6
Round	1 1/4 in x 3/8 in	White	LSS	**21R587**	10
Round	2 9/16 in x 3/8 in	White	LSS	**21R588**	5
Stir Bars					
Octagon	2 in x 5/16 in	White	LSS	**21R568**	10
Octagon	7/8 in x 5/16 in	White	LSS	**21R569**	10
Octagon	1 1/2 in x 5/16 in	White	LSS	**21R570**	10
Octagon	1/4 in x 13/32 in	White	LSS	**21R590**	10
Octagonal	1 in x 5/16 in	White	SP Scienceware	**6TVR6**	1
Octagonal	1 1/2 in x 5/16 in	Yellow	SP Scienceware	**6TVP5**	1
Octagonal	3 in x 1/2 in	Blue	SP Scienceware	**6TVR2**	1
Polygon	7/8 in x 3/16 in	White	SP Scienceware	**6XNU9**	1
Polygon	1 in x 3/8 in	White	SP Scienceware	**6XNT8**	1
Polygon	2 in x 3/8 in	White	SP Scienceware	**6XNT0**	1
Polygon	20 mm x 8 mm	White	LSS	**21R558**	10
Polygon	6 1/4 in x 1 1/16 in	White	SP Scienceware	**6XNP8**	1

53KC02

53KC17

14N113

13R338

14N122

14N112

Shakers

Digital shakers are programmable and can be used in cold rooms and incubator or CO_2 environments. Platforms accommodate various flask clamp sizes. 53KC02 includes base tray. 53KC07 and 13R338 include clamps. 53KC17 and 13R340 include adhering rubber mat. 14N112 is a microplate shaker. Universal Platform 14N123 is designed for use with Erlenmeyer flasks and test tube racks. This unique magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Note: Clamps are available separately on Grainger.com; search for "lab shaker clamps."

Speed Range	Load Cap.	Overall H	Overall W	Overall D	Brand	Item No.
Orbital Shakers						
0 to 100 rpm	6.6 lb	3.5 in	14 in	14 in	Genie (Scientific Industries)	**53KC02**
0 to 300 rpm	6.6 lb	3.5 in	14 in	14 in		**53KC07**
	6.6 lb	3.5 in	14 in	14 in		**53KC12**
	6.6 lb	3.5 in	14 in	14 in		**53KC17**
3 to 70 rpm	9 lb	8 in	14 in	12 in	Benchmark Scientific	**14N113**
10 to 300 rpm	26 lb	7 in	23 in	20 in	Genie (Scientific Industries)	**13R338**
	26 lb	7 in	23 in	20 in		**13R339**
	26 lb	7 in	23 in	20 in		**13R340**
30 to 300 rpm	14 lb	3 in	11 in	13 in	Benchmark Scientific	**14N122**
	65 lb	5 in	21.25 in	18.5 in		**39P097**
50 to 300 rpm	9 lb	5 in	11 in	10.75 in		**14N120**
200 to 1,500 rpm	—	4.5 in	11 in	10.75 in		**14N112**

Description	H	W	D	Brand	Item No.
Shaker Accessory					
MAGic Clamp Magnetic Universal Platform for Flasks and Tube Racks	1 in	14 in	12 in	Benchmark Scientific	**14N123**

Incubating Shakers

Use with platforms, flask clamps, test tube racks, microplate holders, and rubber mats.

Ohaus—Provide accurate and repeatable results. 404P69 to 404P72, and 404P75 have touchpad LED displays for temperature, speed/tilt angle, time, and all settings can be viewed simultaneously. Spill-resistant design with overload protection gives audio/visual alarm. 404P68 is a cooling orbital shaker and 404P74 is a cooling shaker.

Benchmark Scientific—14N136 MultiTherm shaker offers heating and cooling capabilities. Speed, time and temperature settings are continuously visible on the LCD, simultaneously showing both actual and selected values. Integral over-temperature control ensures long life, safety and sample integrity. 14N131 Incu-Shaker provides digitally regulated temperature with precisely controlled, circular (orbital) mixing, optimized for the culture of a wide variety of cell types. Includes standard rubber mat platform.

404P73

404P68

14N136

14N131

Speed Range	Load Cap.	Overall H	Overall W	Overall D	Brand	Item No.
Ambient -13° to 100°C						
300 to 3,000 rpm	2 lb	5.2 in	9.8 in	6 in	Ohaus	**404P73**
Ambient -10° to 65°C						
100 to 1,200 rpm	2 lb	10.5 in	11 in	14 in	Ohaus	**404P68**
Ambient -2° to 100°C						
200 to 1,500 rpm		8.25 in	8.25 in	11.5 in	Benchmark Scientific	**14N136**
Ambient 4° to 100°C						
300 to 3,000 rpm	2 lb	5.2 in	9.8 in	6 in	Ohaus	**404P74**
Ambient 5° to 60°C						
30 to 300 rpm	30 lb	19 in	20 in	26 in	Benchmark Scientific	**14N131**
Ambient 5° to 65°C						
1 to 30 rpm	5 lb	10.5 in	12 in	17 in	Ohaus	**404P75**
1 to 50 rpm	10 lb	10.5 in	12 in	17 in	Ohaus	**404P72**
100 to 1,200 rpm	2 lb	7.8 in	11 in	12 in	Ohaus	**404P70**
		7.8 in	11 in	12 in	Ohaus	**404P71**
	8 lb	7.8 in	11 in	12 in	Ohaus	**404P69**

12F236

13R324

13R322

Rockers and Rotators

ROCKERS

Produce reliable results in staining, destaining, blotting, and gentle mixing. Available with 2-dimensional see-saw action and 3-dimensional gyrating (swirl) action.

BlotBoy 3D—Tridirectional tilt angle and speed are optimally set for blot washes and gel staining/destaining. Supplied with 12" x 12" platform and autoclavable flat mat.

BenchRocker 3D—Provides variable speeds and tilt angles required for molecular and biological mixing. Includes 12" x 12" platform and 2 mats (flat and dimpled).

VSR-50—Has a rhythmic side-to-side motion. Interchangeable tables can be tilted 15°. With 12" x 14" platform. Includes nonslip rubber mat.

ROTATORS

Rotator Genies hold a wide variety of tubes, flasks, microplates, bags, and odd-shaped vessels at any angle. 13R325 has a spring-clip plate system. 13R322 can quickly convert from rocking to rotating motion in seconds. Magnetic platform and clip plate system securely holds a variety of containers.

Description	Speed Range	Overall H	Overall W	Overall D	Brand	Mfr. Model	Item No.
Rockers							
BlotBoy 3D Nutating Gyratory Rocker	Fixed, 12 rpm (10 rpm, 230V)	8.3 in	12 in	12 in	Benchmark Scientific	B3D1308	**5RHV4**
BenchRocker 3D Gyratory Rocker	2 to 30 rpm	—	60 in	12 in	Benchmark Scientific	B3D2300	**5RHV7**
VSR-50 Rocker	0 to 100 rpm	5 in	12 in	11 in	PRO Scientific Inc.	512000-00	**12F236**
Rotators							
Rotator w/Standard Platform	5 to 35 rpm	15.8 in	15.8 in	7 in	Genie	SI-2100	**13R324**
Rotator w/Magnetic Platform	5 to 35 rpm	15.8 in	15.8 in	7 in	Genie	SI-2200	**13R325**
Rocker/Rotator							
Includes Magnetic Platform	5 to 35 rpm	10.5 in	9.9 in	20 in	Genie	SI-1100	**13R322**

Description	Brand	Mfr. Model	Item No.
Accessories			
Stacking Platform with Flat Mat for 3D BenchRocker Gyratory Rocker	Benchmark Scientific	BR1000-STACK	**5RHV0**
Stacking Platform with Dimpled Mat for 3D BenchRocker Gyratory Rocker	Benchmark Scientific	BR1000-STACK-D	**5RHV1**
Dual Stacking Platform with (4) 5 in Standoffs for VSR-50	Pro Scientific Inc.	517100-00	**12F237**

14N110

404P97

39P068

38RU12

Vortex Mixers

Speed Range	Special Features	Brand	Mfr. Model	Item No.
Heavy-Duty Vortex Mixers				
300 to 3,500 rpm	Analog, Heavy Duty, Variable Speed	Ohaus	VXHDAL	**404P95**
300 to 3,500 rpm	Digital, Heavy Duty, Variable Speed	Ohaus	VXHDDG	**404P96**
Microplate Vortex Mixers				
300 to 3,500 rpm	Analog, Variable Speed	Ohaus	VXMPAL	**404R02**
300 to 3,500 rpm	Digital, Variable Speed	Ohaus	VXMPDG	**404R03**
Microtube Vortex Mixer				
200 to 3,200 rpm	—	Benchmark Scientific	BV1005	**14N110**
Mini Vortex Mixers				
0 to 3,200 rpm	Variable Speed	Ohaus	VXMNFS	**404P99**
300 to 3,200 rpm	Analog, Variable Speed	Ohaus	VXMNAL	**404P97**
500 to 3,000 rpm	Digital, Variable Speed	Ohaus	VXMNDG	**404P98**
500 to 3,000 rpm	Fixed Speed	Ohaus	VXMNPS	**404R01**
Multi-Tube Vortex Mixer				
500 to 2,500 rpm	—	Benchmark Scientific	BV1010	**39P068**
Reax Top Vortex Mixer				
0 to 2,500 rpm	Ridged Mixing Orbit	Heidolph	036130000	**38RU12**
Reax Control Vortex Mixer				
0 to 2,500 rpm	Ridged Mixing Orbit	Heidolph	036130020	**38RU14**
Reax All-Purpose Vortex Mixer				
150 to 2,000 rpm	—	Heidolph	036130040	**38RU16**
Vortex Mixer				
200 to 3200 rpm	CE Compliance, Touch or Continuous Operating Modes	Benchmark Scientific	BV1000	**8VTJ8**

Heavy-Duty Vortex—Designed for continuous-duty operation and has the ability to handle accessory components over entire speed range. Include detachable 3-wire cord and plug, universal holder, foam insert for 1.5 to 2mL microtubes and cup head, and tube rack.

Microplate Vortex—Provides high-speed and small orbit for effectively and consistently mixing of microplates. Delivers continuous duty throughout the speed range. Includes microplate adapter, cup head, and detachable 3-wire cord and plug.

Microtube Vortex—Features a Multi-Head cup head for general-purpose mixing of up to eight microcentrifuge tubes and includes a microtube holder.

Mini Vortex—Sturdy design provides stability and reliability vortexing action. Offers gentle shaking or high speed mixing for vigorous vortexing of samples.

Multi-Tube Vortex—Allows multiple samples to be processed simultaneously. Digital display of time and speed. Microprocessor controlled with interval pulse mode to allow more vigorous mixing.

Reax Vortex—Standard model 38RU12 has 5mm vibration orbit for use with high-viscosity media or solids. Features continuous/automatic switch modes and includes a plate for 20mm dia. test tubes. 38RU14 features an analog dial speed control with accurate rpm numbers setting and electronic speed control with constant rpm output. All-purpose 38RU16 has 3mm vibration orbit and includes an attachment for 26 vessels (10 to 16mm) and 12 vessels (16 to 32mm). Digital process timer allows for unattended operation from 1 to 999 min.

Vortex—Counter-balance system creates instant vortexing action while providing smooth vortexing including large sample sizes such as full 50mL tubes. Has cold room incubator compatibility and suction feet securely hold samples, preventing spillage. Speed range from 200 to 3200 rpm and 3mm vibration orbit.

Brass Frame
22LD77

Stainless Steel Frame
12M467

Test Sieves

- Stainless steel screens

Each sieve is serialized and includes certificate of compliance to ASTM E11.

Note: For a full line of sieves, go to Grainger.com and search for "test sieves."

Mesh Size	Brand	Stainless Steel Frame Item No.	Brass Frame Item No.
3 in Outside Dia.			
20	Endecotts	22LD41	—
35	Endecotts	22LD38	—
40	Endecotts	22LD37	—
50	Endecotts	22LD35	—
80	Endecotts	22LD32	—
100	Endecotts	22LD31	—
120	Endecotts	22LD30	—
8 in Outside Dia.			
6	Endecotts	—	22LD65
7	Endecotts	—	22LD73
10	Endecotts	—	22LD75
12	Endecotts	—	22LD76
14	Endecotts	—	22LD77
18	Endecotts	—	22LD78
20	Endecotts	—	22LD56
25	Endecotts	—	22LD67
30	Endecotts	—	22LD57
40	Endecotts	—	22LD58
50	Endecotts	—	22LD59
60	Endecotts	—	22LD60
70	Endecotts	—	22LD61
100	Endecotts	—	22LD62
140	Endecotts	—	22LD68
1 in Depth to Mesh			
3 in	Advantech	12M579	12M499
5	Advantech	12M619	—
6	Advantech	—	12M543
8	Advantech	—	12M548
10	Advantech	12M594	12M516
12	Advantech	12M596	12M518

Mesh Size	Brand	Stainless Steel Frame Item No.	Brass Frame Item No.
14	Advantech	12M598	12M520
16	Advantech	—	12M522
18	Advantech	—	12M524
20	Advantech	12M604	12M525
25	Advantech	—	12M528
30	Advantech	12M611	12M532
35	Advantech	—	12M534
40	Advantech	12M615	12M536
45	Advantech	—	12M538
50	Advantech	12M620	12M541
60	Advantech	—	12M544
70	Advantech	—	12M547
80	Advantech	—	12M549
100	Advantech	12M595	12M517
120	Advantech	12M597	12M519
2 in Depth to Mesh			
3 in	Advantech	12M578	12M501
3.5	Advantech	—	12M531
4	Advantech	8Y449	8C838
5	Advantech	—	9K156
6	Advantech	8Y450	8N627
7	Advantech	9LJ91	9HMA0
8	Advantech	9K286	9J265
10	Advantech	8RH70	8C794
12	Advantech	8VR88	9LJ64
14	Advantech	—	8C795
16	Advantech	9X505	8UNU2
18	Advantech	—	8Z405
20	Advantech	8Y455	9JZY6
25	Advantech	—	9NRR4
30	Advantech	9TAY6	8CAP3
35	Advantech	8N778	8C796
40	Advantech	8TKA6	8CAU2
45	Advantech	—	8X781
50	Advantech	8TKA7	9JZK9
60	Advantech	—	9AGT5
70	Advantech	8Z745	—
80	Advantech	9HNA1	9VZE7
100	Advantech	8TKA8	9W632
120	Advantech	9DYF7	9WE64
12 in Outside Dia.			
1.625 in Depth to Mesh			
3 in	Advantech	13T001	13R873
4	Advantech	—	13R936

Mesh Size	Brand	Stainless Steel Frame Item No.	Brass Frame Item No.
8	Advantech	—	13R966
10	Advantech	—	13R896
14	Advantech	13T025	—
16	Advantech	—	13R911
18	Advantech	13T033	—
20	Advantech	13T035	13R918
30	Advantech	13T047	13R930
40	Advantech	—	13R938
50	Advantech	—	13R951
100	Advantech	13T019	13R899
2 in Depth to Mesh			
3 in	Advantech	—	13R872
4	Advantech	—	9PVH7
6	Advantech	—	9MGA0
8	Advantech	—	9WUN5
16	Advantech	—	9LHT4
20	Advantech	—	8CKP6
50	Advantech	—	9G583
100	Advantech	—	9NT86
3.25 in Depth to Mesh			
1 in	Advantech	13R983	13R845
2 in	Advantech	13R994	13R865
3 in	Advantech	13T002	13R874
3.5	Advantech	—	13R970
4	Advantech	13T054	13R935
5	Advantech	13T064	13R947
6	Advantech	13T070	13R955
7	Advantech	—	13R962
8	Advantech	12M467	13R967
10	Advantech	13T018	13R897
12	Advantech	13T021	13R902
14	Advantech	13T026	13R906
16	Advantech	13T030	13R910
18	Advantech	—	13R915
20	Advantech	13T036	13R917
25	Advantech	—	13R924
30	Advantech	13T048	13R929
35	Advantech	13T052	—
40	Advantech	13T056	13R937
50	Advantech	13T066	13R950
60	Advantech	13T071	13R957
70	Advantech	13T077	—
80	Advantech	12M469	—
100	Advantech	13T020	13R898

Mesh Size	Brand	Brass Frame Item No.	Stainless Steel Frame Item No.
8 in Outside Dia.			
1 in Depth to Mesh			
½ in	Advantech	—	12M565
2 in Depth to Mesh			
⅛ in	Advantech	—	12M569
¼ in	Advantech	12M487	12M567
17/64 in	Advantech	—	12M551
5/16 in	Advantech	12M509	12M587
⅜ in	Advantech	12M505	12M582
7/16 in	Advantech	12M513	12M590
½ in	Advantech	12M486	12M564
¾ in	Advantech	12M503	12M580
1 ¼ in	Advantech	12M478	—
1 in	Advantech	12M482	—
1 ½ in	Advantech	—	12M554
12 in Outside Dia.			
1.625 in Depth to Mesh			
⅛ in	Advantech	—	13R991
¼ in	Advantech	13R856	13R989
⅜ in	Advantech	13R880	13T006
½ in	Advantech	13R853	—
¾ in	Advantech	13R877	—
2 in Depth to Mesh			
¼ in	Advantech	13R855	—
⅜ in	Advantech	13R879	—
½ in	Advantech	13R852	—
¾ in	Advantech	13R876	—
1 ½ in	Advantech	13R837	—
1 ¼ in	Advantech	13R840	—
1 in	Advantech	13R847	—
3.25 in Depth to Mesh			
⅛ in	Advantech	13R857	—
¼ in	Advantech	13R854	13R990
5/16 in	Advantech	13R884	13T009
⅜ in	Advantech	13R878	13T005
½ in	Advantech	13R851	13R987
⅝ in	Advantech	13R887	—
¾ in	Advantech	13R875	13T003
⅞ in	Advantech	—	13T015
1 ½ in	Advantech	13R838	—

8VPR5

8CJP9

Sieve Pans and Covers

Matching 8" and 12" pans and covers for use with ASTM E11 sieves. Covers include lifting ring.

Outside Dia.	Overall Depth	Brand	Brass Item No.	Stainless Steel Item No.
Receiver				
3 in	—	Endecotts	—	22LD19
3.2 in	1.25 in	Endecotts	—	22LD17
8 in	—	Endecotts	22LD71	—
8 in	—	Endecotts	22LD72	—
Sieve Covers				
3 in	—	Endecotts	—	22LD18
8 in	0.375 in	Advantech	8N518	8VPR5
8 in	—	Endecotts	22LD70	—
12 in	0.375 in	Advantech	13R827	13R828
Test Pans				
8 in	1 in	Advantech	9LHR3	8Y270
8 in	2 in	Advantech	9TA04	8CJP9
12 in	1.625 in	Advantech	9MJD5	13R156
12 in	3.25 in	Advantech	—	13R157
12 in	3.5 in	Advantech	13R155	—

16Y898

22FP46

Sieve Shakers

Meinzer II Tabletop Sieve Shaker—Portable electromagnetic vibrating shaker accommodates 8 full-height or 15 half-height sieves, plus pan and cover. Mechanical timer.

DuraTap Motorized Sieve Shakers—Made with rugged steel and alloy materials. Digital timer.

Sonic Sifter Separators—Settings can be varied for different dry particle densities and textures with automatic timing that ensures repeatable and reproducible results. Oscillating column of air tries the particles 60 times per sec. allowing for reduced testing times. Precise sieving instrument for fine particle separations ranging from 5.6mm to 3 microns.

Endecotts Sieve Shakers—Analog model has a 0- to 60-min. timer, or can be set for continuous sieving. Digital models have an electromagnetic drive and are suitable for wet or dry sieving.

Description	Sieve Dia.	Power Req.	Mfr. Model	Item No.
Advantech				
Meinzer II Tabletop Sieve Shaker	8 in	110V AC, 60 Hz	MeinII	16Y908
DuraTap Motorized Sieve Shakers	8 in	110V AC, 50 Hz	DT158	16Y899
	8 in	110V AC, 60 Hz	DT168	16Y898
	8 in	220V AC, 50 Hz	DT258	16Y901
	8 in	220V AC, 60 Hz	DT268	16Y902
	12 in	110V AC, 60 Hz	DT1612	16Y903
	12 in	220V AC, 50 Hz	DT2512	16Y905
	12 in	220V AC, 60 Hz	DT2612	16Y904
Sonic Sifter Separators	3 in	110V AC, 50 Hz	L3P-15	40PR69
	3 in	110V AC, 60 Hz	L3P	40PR25
	3 in	220V AC, 50 Hz	L3P-25	40PR43
	3 in	220V AC, 60 Hz	L3P-26	40PR31
Endecotts				
Sieve Shakers, Analog Timer	8 in	220V AC, 50 Hz	MIN200/23050	22FP51
Sieve Shakers, Digital Timer	8 in	110V AC, 60 Hz	OCT200/11060	22FP46
	8 in	220V AC, 50 Hz	OCT200/23050	22FP47

White with Blue Lid D4103

38LY68

32EZ31

14N155

Centrifuges

Microliter Centrifuges—For use in molecular biology applications such as PCR, DNA and RNA extraction. Available with or without temperature control.

MyFUGE Mini Benchtop Centrifuges—Space-saving personal centrifuge has easy lid-activated Start/Stop control. Near-silent operation.

- Includes adapters for 0.5 and 0.2mL
- Choose lid color: blue, green, red, purple, or clear

Benchtop Centrifuges—General purpose centrifuges are for spinning blood, urine, cell/tissue culture, plates, and bottles. 38LZ08, 38LZ41, and 38LZ39 have a robust temp. control system and feature a Versa-Rotor, one rotor for multiple applications.

USA E8 Variable-Speed Benchtop Centrifuge—Angled table top unit spins up to 8 tubes with precision results.

USA E8 Portable Centrifuges—Angled 8-place centrifuges include a car power cord and a car seat for easy operation in the field.

Description	Cap.	Max. Test Tube Size	▶CHOOSE: Color	Max. Speed	Max. RCF	Brand	Item No.
Microliter Centrifuges	24 x 2mL	2mL	White	13,300 RPM	—	Hettich	**38LY67**
	18 x 2mL	2mL	White	13,300 RPM	—	Hettich	**38LY68**
MyFUGE Mini Benchtop Centrifuges	32 x 0.5mL, 4 x 8 Place PCR Strips, 8 x 1.5mL, 8 x 2mL	2mL	Blue, White, Clear, White, Green, White, Purple, White, Red, White	6,000 RPM	2000 x g	Benchmark Scientific	**D4103**
Mini Benchtop Centrifuge	12 x 1.5mL, 12 x 2mL, 32 x 0.5mL, 4 x 8 Place PCR Strips	2mL	White with Amber Lid	5,500 RPM	2000 x g	Benchmark Scientific	**14N155**
Benchtop Centrifuges	8 x 15mL, 8 x 3mL	15mL	Black	3,500 RPM	1534 x g	LW Scientific	**32EZ32**
	8 x 15mL	15mL	White	3,500 RPM	3500 x g	Benchmark Scientific	**422V23**
	8 x 15mL	15mL	White	5,000 RPM	5000 x g	Benchmark Scientific	**422V25**
	8 x 15mL	15mL	White	5,000 RPM	5000 x g	Benchmark Scientific	**422V26**
	4 x 50mL	50mL	White	4,500 RPM	—	Hettich	**38LY98**
	16 x 50mL	50mL	White	5,000 RPM	—	Hettich	**38LZ13**
	4 x 250mL	290mL	White	5,000 RPM	—	Hettich	**38LZ08**
	10 x Microplate	SBS Format Plates	White	4,000 RPM	—	Hettich	**38LZ03**
	12 x Microplate	SBS Format Plates	White	5,900 RPM	—	Hettich	**38LZ41**
	24 x Microplate	SBS Format Plates	White	4,600 RPM	—	Hettich	**38LZ39**
USA E8 Variable-Speed Benchtop Centrifuge	8 x 15mL, 8 x 3mL	15mL	Black	3,500 RPM	1534 x g	LW Scientific	**32EZ31**
USA E8 Portable Centrifuge, Fixed Speed Control	8 x 15mL, 8 x 3mL	15mL	Black	3,500 RPM	1524 x g	LW Scientific	**45UA64**
USA E8 Portable Centrifuge, Variable Speed Control	8 x 15mL, 8 x 3mL	15mL	Black	3,500 RPM	1524 x g	LW Scientific	**45UA65**
USA E8 Portable Centrifuge, Digital Speed Control	8 x 15mL, 8 x 3mL	15mL	Black	3,500 RPM	1524 x g	LW Scientific	**45UA66**

6VMY1

8CJF5
(Tubes not included)

Conical Centrifuge Tubes and Racks

Tubes—Polypropylene tubes have white writing area on tube and included polypropylene cap. Glass tubes have phenolic screw caps with PTFE-faced rubber liner.

Racks—Conical Tube Racks are epoxy-coated steel wire, steam-autoclavable and have 30mm square holes. Pop-Up Tube Racks are sturdy polypropylene.

Nominal Cap.	Outside Dia.	L	Brand	Item No.	Pkg. Qty.
Conical Centrifuge Tubes					
Polypropylene					
15 mL	—	120 mm	LSS	**6VMY0**	500 *
15 mL	—	120 mm	LSS	**6VMY1**	500 †
50 mL	2.54 cm	114 mm	LSS	**6VMY2**	500 *
50 mL	—	114 mm	LSS	**6VMY3**	500 †
50 mL	—	114 mm	LSS	**6VMY4**	500
Type I Borosilicate Glass					
15 mL	17 mm	126 mm	Kimble	**8AYV5**	125
Centrifuge Tube Caps					
Black Cap, For Use With 8AYV5			Kimble	**9UDE8**	500

No. of Compart.	Color	H	W	L	Brand	Item No.	Pkg. Qty.
Conical Tube Racks							
8	Blue	3 ⅝ in	5 ⅞ in	3 3⁄16 in	SP Scienceware	**8CJF5**	1
16	Blue	3 ⅝ in	5 ⅞ in	6 ⅛ in		**8CJF6**	1
36	Blue	3 ½ in	8 ⅞ in	9 in		**9PW58**	1
Pop-Up Conical Tube Racks							
12, 21 Places	Blue	2 ⅞ in	5 ⅜ in	10 in	Heathrow Scientific	**6PTK6**	2
33	Pink	2 ⅞ in	5 ⅜ in	10 in		**6PTK7**	2

** Bulk wrap sterile. † Racked sterile.*

11L818

11L820

11L549
(Tubes not included.)

Microcentrifuge Tubes and Racks

Tubes—Polypropylene tubes have attached caps and conical bottoms, except 11L820 is self-standing. 6VMX6 to 6VMX9 have frosted marking area and syringe-pierceable caps. 11L817 to 11L820 have engraved graduations and are autoclavable.

Racks—11L554 and 11L556 are reversible. 11L560 is for PCR sampling.

- Polypropylene with molded-in coordinates
- Pkg. of 5

Nominal Cap.	Outside Dia.	L	Item No.	Pkg. Qty.
LSS Microcentrifuge Tubes				
1.5mL	—	40.2 mm	**6VMX6**	500
0.5mL	7.8 mm	31.75 mm	**11L817**	1000
1.5mL	10.75 mm	40.25 mm	**11L818**	1000
2mL	10.6 mm	41.5 mm	**11L819**	1000
	10.6 mm	43.1 mm	**11L820**	1000
1.5mL	—	40.2 mm	**6VMX7**	1000
0.5mL	—	31.75 mm	**6VMX8**	1000
0.2mL	—	22.2 mm	**6VMX9**	1000

Format	No. of Compart.	Color	H	W	L	Item No.
Heathrow Scientific Microtube Racks						
5x16	80	Natural	1 in	2 ¾ in	9 in	**11L543**
		Blue	1 in	2 ¾ in	9 in	**11L544**
		Green	1 in	2 ¾ in	9 in	**11L545**
		Yellow	1 in	2 ¾ in	9 in	**11L547**
		Red	1 in	2 ¾ in	9 in	**11L550**
		Assorted	1 in	2 ¾ in	9 in	**11L549**
8x12	96	Blue	2 in	4 ¾ in	9 ¾ in	**11L556**
		Assorted	2 in	4 ¾ in	9 ¾ in	**11L554**
		Assorted	1 ¼ in	3 ½ in	5 in	**11L560**

Caframo

Overhead Mixers

- Mixer motors, support stands, and mixing paddles, sold separately

Digital speed display with speed and torque abilities for a wide range of volumes and viscosities. Compact units are ideal for fume hoods or enclosed work stations. Mix reactions, samples, dissolutions, and dilutions. 38C831 has a countdown timer. Mixes reactions, pharmaceuticals, and suspensions. 38C834 mixes emulsions and serves as an alternative to a homogenizer. 38C833 mixes creams, lotions, and personal care products. 38C832 mixes tars, gravel, polymers, and adhesives.

38C830

Special Features	Operating Speed	Mfr. Model	Item No.
Overhead Mixers			
Digital, Ultra Compact	50 to 2500 rpm	BDC250	**38C828**
Compact	40 to 2002 rpm	BDC2002	**38C830**
Counterclockwise Agitation, Reverse Mixing	40 to 2010 rpm	BDC2010	**38C831**
High Speed	40 to 6000 rpm	BDC6015	**38C834**
High Torque	20 to 3000 rpm	BDC3030	**38C833**
High Torque	12 to 1800 rpm	BDC1850	**38C832**

PRO Scientific

Homogenizers

- 120V
- For additional generator probes, go to Grainger.com

12F197 can process tissue or small samples in various tube sizes or small beakers. 144W, high-torque motor has variable-speed adjustment with a slide switch speed control to homogenize samples in seconds. All packages include the 12F197 Homogenizer plus probes.

12F197

Description	Speed Range	Volume Range	Includes	Mfr. Model	Item No.
Bio-Gen PRO200 Hand-Held Homogenizer	5,000 to 35,000 rpm	0.03mL to 1 L	Instruction Manual, Tool Kit, Variable Speed Motor	01-01200	**12F197**
Homogenizing Package, Standard Universal	5,000 to 33,000 rpm	0.03mL to 10mL	10 mm X 115 mm Saw-Tooth Probe, 7 mm X 95 mm Saw-Tooth Probe	PK-01200UHS	**39J347**
Homogenizing Package, Deluxe Universal	5,000 to 35,000 rpm	0.03mL to 50mL	10 mm X 115 mm Saw-Tooth Probe, 7 mm X 95 mm Saw-Tooth Probe, Pro200 Stand Assembly	PK-01200UHD	**39J349**
Micro-Homogenizing Package, Standard	5,000 to 35,000 rpm	0.03mL to 10mL	5 mm X 75 mm Probe	PK-01200S	**39J326**
Micro-Homogenizing Package, Deluxe	5,000 to 35,000 rpm	0.03mL to 10mL	5 mm X 75 mm Probe, 7 mm X 95 mm Saw Tooth Probe	PK-01200D	**39J333**
Micro-Homogenizing Package, Premium	5,000 to 35,000 rpm	0.03mL to 10mL	5 mm X 75 mm Probe, 7 mm X 95 mm Saw-Tooth Probe, Pro200 Stand Assembly	PK-01200P	**39J327**

LP
52TA14

No Tip, Natural
52TA17

eisco

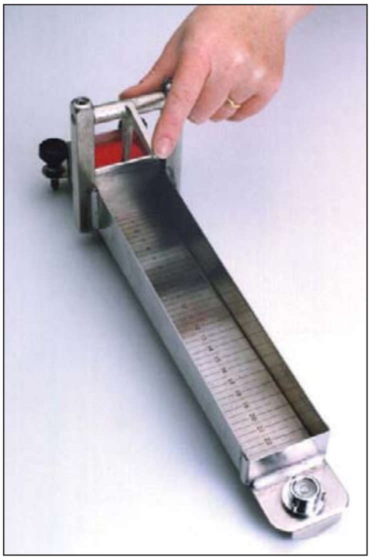
Bunsen Burners

Next Gen Burners feature an easy-to-carry finger handle, allowing you to carry a hot burner with ease and safety. Expanded base prevents easy tipping, even with hoses connected. Spaced feet so burner can fit comfortably under stand.

Fuel Type	Type	Btu Output	Outside Dia.	Overall H	Mfr. Model	Item No.
Bunsen Burners						
LP	Meker	2000 to 3200	42 mm	8 ½ in	CH0098E	**52TA14**
	Micro	2000 to 3200	11 mm	3 ½ in	CH0093C	**52TA10**
	Tirrill	2000 to 3200	13 mm	6 in	CH0095A	**52TA12**
Natural	Basic	800 to 1200	11 mm	6 in	CH0088D	**52TA07**
	Meker	800 to 1200	42 mm	8 ½ in	CH0098F	**52TA15**
	Micro	800 to 1200	11 mm	3 ½ in	CH0093E	**52TA11**
	Tirrill	800 to 1200	13 mm	6 in	CH0095B	**52TA13**
Next Gen No Tip Bunsen Burners						
LP	Basic	2000 to 3200	11 mm	6 in	CH0991LP	**52TA16**
	Gas Adjustable	2000 to 3200	11 mm	6 in	CH0993LP	**52TA20**
	Meker	2000 to 3200	42 mm	9 in	CH0996LP	**52TA25**
	Micro	2000 to 3200	11 mm	3 ½ in	CH0994LP	**52TA21**
	Tirrill	2000 to 3200	13 mm	6 in	CH0995LP	**52TA23**
Natural	Basic	800 to 1200	11 mm	6 in	CH0991NG	**52TA17**
	Flame Stabilizer	800 to 1200	11 mm	6 in	CH0992NG	**52TA19**
	Micro	800 to 1200	11 mm	3 ½ in	CH0994NG	**52TA22**

Endecotts

49DJ66



Consistometers

- 30 to 30,000 cP viscosity range
- Ambient test temperature

Use these instruments to accurately check laboratory or production samples against consistency, viscosity or flow rate standards. Made of 316 food grade stainless steel engraved with a series of precise graduations at 0.5 cm intervals. Equipped with two leveling screws and a spirit level for accurate set up. Spring-loaded gates prevent premature flowing of samples and are portable and easy to clean.

Description	H	W	L	Mfr. Model	Item No.
Consistometer, Standard Length	139 mm	51.7 mm	355 mm	ZXCON-CON1	**49DJ66**
Consistometer, Extended Length	139 mm	51.7 mm	415 mm	ZXCON-CON3	**49DJ67**

Round Beaker Bottle

French Square Bottle

Boston Round Bottle

Media Bottle

Packer Bottle

Reagent Bottle

Glass Bottles

- Precleaned bottles are cleaned for semivolatile organics and come preassembled with caps attached
- Reagent bottles include ground glass stopper

Cap.	Bottle/Jar Shape	Mouth	Body Color	Closure Liner Material	Screw Closure Size	Brand	Item No.	Pkg. Qty.
Beaker Bottles								
60mL	Round	Wide	Clear	Pulp/Vinyl	38-400 mm	Qorpak	**3TRH5**	48
120mL	Round	Wide	Clear	Pulp/Vinyl	48-400 mm	Qorpak	**3TRH8**	24
240mL	Round	Wide	Clear	Pulp/Vinyl	58-400 mm	Qorpak	**3TRJ2**	24
Bottles								
1 L	Boston Round	Narrow	Amber	Pulp/Vinyl	33-400 mm	Kimble	**3VEE5**	12
1 L	Round	Wide	Amber	Pulp/Vinyl	53-400 mm	Kimble	**3VFF8**	12
1 L	Round	Wide	Amber	Unlined	53-400 mm	Wheaton	**8DD96**	12
1 oz	Round	Narrow	Clear	Pulp/Vinyl	20-400 mm	Kimble	**3UUT8**	48
1 oz	Round	Wide	Amber	Polyethylene	28-400 mm	Kimble	**8FEJ2**	432
2 L	Round	Wide	Clear	Unlined	83-400 mm	Wheaton	**8DCT1**	6
2 oz	Round	Narrow	Clear	Pulp/Vinyl	20-400 mm	Kimble	**3UUV7**	24
2 oz	Round	Wide	Amber	Pulp/Vinyl	33-400 mm	Kimble	**8FFH4**	216
4 L	Boston Round	Narrow	Amber	Foam	38-400 mm	LSS	**52JZ39**	6
4 L	Round	Wide	Clear	Foam	89-400 mm	LSS	**52JZ68**	4
4 oz	Round	Narrow	Amber	Unlined	22-400 mm	Kimble	**8FDN8**	160
4 oz	Round	Narrow	Clear	Pulp/Vinyl	22-400 mm	Kimble	**3UUX7**	24
4 oz	Round	Wide	Clear	Pulp/Vinyl	48-400 mm	Kimble	**3VFH5**	24
8 oz	Round	Narrow	Clear	Pulp/Vinyl	24-400 mm	Kimble	**3UUZ7**	12
15mL	French Square	Wide	Clear	Unlined	20-400 mm	Qorpak	**41U168**	48
16 oz	Round	Narrow	Clear	Pulp/Vinyl	28-400 mm	Kimble	**3UVC7**	12
16 oz	Round	Wide	Amber	Polyethylene	53-400 mm	Kimble	**8PK32**	60
30mL	Round	Wide	Amber	Pulp/Vinyl	28-400 mm	Kimble	**3VEV5**	24
32 oz	Round	Narrow	Clear	Pulp/Vinyl	33-400 mm	Kimble	**3VDP5**	12
60mL	Boston Round	Narrow	Clear	PTFE	20-400 mm	LSS	**52JZ96**	24
60mL	French Square	Wide	Clear	Unlined	28-400 mm	Qorpak	**41U171**	48
60mL	Round	Wide	Amber	Pulp/Vinyl	33-400 mm	Kimble	**3VEX5**	24
120mL	Boston Round	Narrow	Amber	Polyethylene	20-400 mm	LSS	**52KA45**	24
120mL	Boston Round	Narrow	Clear	Unlined	22-400 mm	Qorpak	**41U160**	24
120mL	Round	Wide	Clear	Foam	38-400 mm	LSS	**52JZ63**	24
120mL	Round	Wide	Clear	Pulp/Vinyl	48-400 mm	Qorpak	**41U222**	24
120mL	Round	Wide	Clear	PTFE	48-400 mm	LSS	**52KA06**	24
120mL	Round	Wide	Clear	Foam	48-400 mm	LSS	**52JZ50**	24
125mL	Round	Wide	Amber	Pulp/Vinyl	38-400 mm	Kimble	**3VEZ5**	24
125mL	Round	Wide	Amber	Unlined	38-400 mm	Wheaton	**8DD93**	24
125mL	Round	Wide	Clear	Unlined	48-400 mm	Wheaton	**8DDU5**	24
125mL	Round	Wide	White	Unlined	38-410 mm	Wheaton	**8CWA6**	72
240mL	Round	Wide	Clear	Pulp/Vinyl	58-400 mm	Qorpak	**41U226**	24
250mL	Boston Round	Narrow	Amber	Pulp/Vinyl	24-400 mm	Kimble	**3VDZ5**	12
250mL	Round	Wide	Amber	Unlined	45-400 mm	Wheaton	**8DD94**	24
250mL	Round	Wide	Clear	Foam	45-400 mm	LSS	**52JZ64**	12
480mL	Round	Wide	Clear	Pulp/Vinyl	63-400 mm	Qorpak	**41U230**	24
500mL	Boston Round	Narrow	Amber	Pulp/Vinyl	28-400 mm	Kimble	**3VEC5**	12
500mL	Boston Round	Narrow	Clear	Polyethylene	28-400 mm	LSS	**52KA53**	12
500mL	Round	Wide	Amber	Pulp/Vinyl	53-400 mm	Kimble	**3VFE2**	12
500mL	Round	Wide	Amber	Unlined	53-400 mm	Wheaton	**8DD95**	12
500mL	Round	Wide	Clear	Unlined	63-400 mm	Wheaton	**8XA01**	24
950mL	Boston Round	Narrow	Clear	Polyethylene	20-400 mm	LSS	**52KA54**	12
960mL	Boston Round	Narrow	Amber	Pulp/Vinyl	33-400 mm	Qorpak	**41W172**	12
960mL	Boston Round	Narrow	Clear	Unlined	33-400 mm	Qorpak	**41U167**	12
Media Bottles								
1 L	Round	Narrow	—	Unlined	—	Kimble	**6HAT8**	1
1 L	Round	Wide	Clear	Unlined	—	Kimble	**3TRE5**	10
1 L	Round	Wide	Clear	Unlined	—	Wheaton	**9HV88**	12
2 L	Round	Narrow	—	Unlined	—	Kimble	**6HAT9**	1
2 L	Round	Wide	Clear	Unlined	—	Wheaton	**9PY89**	6
100mL	Round	Wide	Clear	Unlined	45-400 mm	Kimble	**3TRD5**	10
250mL	Round	Wide	Clear	Unlined	38-400 mm	Kimble	**3TRD8**	10
250mL	Round	Wide	Clear	Unlined	38-400 mm	Wheaton	**9HV87**	12
500mL	Round	Narrow	—	Unlined	—	Kimble	**6HAT7**	1
500mL	Round	Wide	Clear	Unlined	—	Kimble	**3TRE2**	10
500mL	Round	Wide	Clear	Unlined	—	Wheaton	**8CYD2**	12
Packer Bottles								
30mL	Round	Wide	Amber	Unlined	28-400 mm	Kimble	**3VEW8**	24
60mL	Round	Wide	Amber	Unlined	33-400 mm	Kimble	**3VEY8**	24
Precleaned Bottles								
120mL	Boston Round	Narrow	Clear	PTFE	24-400 mm	Qorpak	**39H552**	24
240mL	Boston Round	Narrow	Clear	PTFE	24-400 mm	Qorpak	**39H565**	24
500mL	Boston Round	Narrow	Clear	PTFE	28-400 mm	Qorpak	**39H531**	12
960mL	Boston Round	Narrow	Clear	PTFE	33-400 mm	Qorpak	**39H541**	12
Precleaned Packer Bottles								
1 L	Round	Wide	Amber	PTFE	53-400 mm	Qorpak	**39H523**	12
1 L	Round	Wide	Amber	PTFE	53-400 mm	Qorpak	**39H524**	12
250mL	Round	Wide	Amber	PTFE	53-400 mm	Qorpak	**39H538**	24
250mL	Round	Wide	Amber	PTFE	53-400 mm	Qorpak	**39H539**	24
Reagent Bottles								
30mL	Round	Narrow	Amber	Unlined	—	LSS	**5YHG2**	8
30mL	Round	Wide	Amber	Unlined	—	LSS	**5YHH9**	8
60mL	Round	Narrow	Amber	Unlined	—	LSS	**5YHG3**	8
60mL	Round	Wide	Amber	Unlined	—	LSS	**5YHJ0**	8
500mL	Round	Narrow	Amber	Unlined	—	LSS	**5YHG6**	6
500mL	Round	Narrow	Clear	Unlined	—	LSS	**5YHF7**	6
Round Beaker with Cap								
30mL	Round	Wide	Clear	Pulp/Vinyl	33-400 mm	Qorpak	**3TRH2**	48
Safety Coated Bottles								
1 L	Round	Wide	Clear	PTFE	53-400 mm	LSS	**52KA42**	12
1 L	Round	Wide	Clear	Foam	53-400 mm	LSS	**52JZ86**	12
480mL	Round	Wide	Clear	F217/PTFE	70-400 mm	Qorpak	**3UEK7**	24
500mL	Round	Wide	Amber	Foam	53-400 mm	LSS	**52JZ81**	12
950mL	Boston Round	Narrow	Clear	Foam	20-400 mm	LSS	**52JZ76**	12
950mL	Round	Wide	Amber	Foam	53-400 mm	LSS	**52JZ82**	12
960mL	Round	Wide	Clear	Pulp/Vinyl	70-400 mm	Qorpak	**41W199**	12
1,920mL	Round	Wide	Clear	Pulp/Vinyl	83-400 mm	Qorpak	**41W228**	6

48H599

BOD Bottles

- 300mL capacity
- Clear borosilicate glass, USP Type I

Designed for incubating samples of industrial wastes, polluted waters, sewage, and sewage effluents for wastewater biochemical oxygen demand testing.

Description	Stopper Type	Item No.	Pkg. Qty.
Narrow Mouth			
No Barcoding, Un-Numbered	Robotic	**48H597**	24
No Barcoding, Un-Numbered	Pennyhead	**48H598**	24
Number Sequence: 01-24	Robotic	**48H599**	24
Number Sequence: 01-24	Pennyhead	**48H601**	24
Number Sequence: 25-48	Robotic	**48H602**	24
Number Sequence: 25-48	Pennyhead	**48H603**	24
Number Sequence: 49-72	Robotic	**48H604**	24
Number Sequence: 49-72	Pennyhead	**48H605**	24
Number Sequence: 73-108	Robotic	**48H626**	36
Number Sequence: 73-108	Pennyhead	**48H627**	36
Accessories			
Replacement Glass Stopper	Robotic	**48H631**	12
Replacement Glass Stopper	Pennyhead	**48H632**	12
BOD Bottle Rack	—	**8AVE2**	1

Phenolic 41U468

Polypropylene 41U555

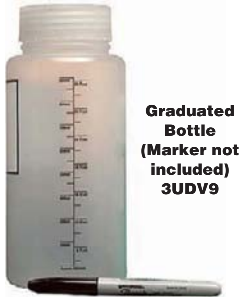
Caps for Glass Bottles and Jars

- Phenolic caps are black
- Polypropylene are white

Closure Liner Material	Screw Closure Size	Brand	Item No.	Pkg. Qty.
Phenolic Closure Material				
LDPE	20-400 mm	Qorpak	**41U468**	5500
LDPE	22-400 mm	Qorpak	**41U472**	5000
Polyethylene	48-400 mm	Qorpak	**21RT78**	1248
Pulp/Vinyl	28-400 mm	Kimble	**9R418**	144
Pulp/Vinyl	33-400 mm	Kimble	**8FRF5**	144
Pulp/Vinyl	38-400 mm	Kimble	**9UFH5**	144
Pulp/Vinyl	43-400 mm	Kimble	**9LP99**	144
Pulp/Vinyl	48-400 mm	Kimble	**8WA38**	144
Rubber	22-400 mm	Kimble	**8FRE9**	144
Rubber	24-400 mm	Kimble	**8PPZ6**	144
Rubber	33-400 mm	Kimble	**8PPY8**	144
Rubber	48-400 mm	Kimble	**8FDR1**	144
Polypropylene Closure Material				
F217	58-400 mm	Qorpak	**41U518**	1650
F217	63-400 mm	Qorpak	**41U566**	288
F217	70-400 mm	Qorpak	**41U520**	760
F217	89-400 mm	Qorpak	**41U555**	144
Unlined	48-400 mm	Qorpak	**21RN74**	1700
Unlined	58-400 mm	Qorpak	**21RN44**	1100

Narrow-Mouth Bottle
6FAH9

Wide-Mouth Bottle
6FAJ5



Graduated Bottle (Marker not included)
3UDV9

Square Bottle
3UEH3

LSS · Dynalon Labware quality . value . service

Plastic Bottles

- Round shape except 3UEH3 and 3UEH6

Screw-on caps make a leak-resistant seal to keep liquid samples safely contained.

Note: Detailed information on chemical resistance, plasticware compatibility, and labware cleaning and disposal is available on Grainger.com.

NARROW- AND WIDE-MOUTH

Amber HDPE bottles protect light-sensitive samples.

Graduated bottles have printed mL and oz. graduations and a write-on label area.

ENVIRONMENTAL SAMPLING

Leakproof bottles resist breakage for safe sampling, transport, and storage.

OCTAGONAL-SQUARE BOTTLES

Optically clear, easy-grip transport bottles take up less shelf space than round bottles. Graduations are molded in.

Body Material	Cap.	Dia.	Body Color	Brand	Item No.	Pkg. Qty.
Narrow Mouth Bottles						
HDPE	30 mL	34 mm	Clear	LSS	**6FAH9**	12
	60 mL	37 mm	Clear	LSS	**6FAJ0**	12
	125 mL	50 mm	Clear	LSS	**6FAJ1**	12
	125 mL	50 mm	Clear	LSS	**6FAP9**	12
	250 mL	61 mm	Natural	LSS	**6FAJ2**	12
	250 mL	61 mm	Clear	LSS	**6FAR0**	12
	500 mL	73 mm	Clear	LSS	**6FAJ3**	12
	500 mL	73 mm	Clear	LSS	**6FAR1**	12
Polypropylene	125 mL	1.95 in	Clear	Dynalon	**3UDU9** *	12
	250 mL	61 mm	Clear	LSS	**6FAL3**	12
HDPE	1 L	91 mm	Clear	LSS	**6FAJ4**	6
	1 L	91 mm	Clear	LSS	**6FAR2**	6
Wide Mouth Bottles						
Polypropylene	500 mL	2.953 in	Clear	Dynalon	**3UDV6** *	12
HDPE	30 mL	34 mm	Clear	LSS	**6FAJ5**	12
	30 mL	34 mm	Amber	LSS	**6FAN4**	12
	60 mL	39 mm	Clear	LSS	**6FAJ6**	12
	60 mL	39 mm	Amber	LSS	**6FAN5**	12
	125 mL	50 mm	Clear	LSS	**6FAJ7**	12
	125 mL	50 mm	Amber	LSS	**6FAN6**	12
	250 mL	61 mm	Clear	LSS	**6FAJ8**	12
	250 mL	61 mm	Amber	LSS	**6FAN7**	12
	500 mL	75 mm	Clear	Dynalon	**3TTA8**	12
	500 mL	73 mm	Clear	LSS	**6FAJ9**	12
	500 mL	73 mm	Amber	LSS	**6FAN8**	12
	1 L	90 mm	Clear	Dynalon	**3TTC1**	6
	1 L	91 mm	Clear	LSS	**6FAL0**	6
	1 L	91 mm	Amber	LSS	**6FAN9**	6
	4 L	153 mm	Clear	LSS	**6FAP6**	1
Polypropylene	60 mL	39 mm	Clear	LSS	**6FAL4**	12
	60 mL	1.565 in	Clear	Dynalon	**3UDU6** *	12
	125 mL	50 mm	Clear	LSS	**6FAL5**	12
	250 mL	61 mm	Clear	LSS	**6FAL6**	12
	250 mL	2.353 in	Clear	Dynalon	**3UDV3** *	12
	500 mL	73 mm	Clear	LSS	**6FAL7**	12
	1 L	91 mm	Clear	LSS	**6FAL8**	6
	1 L	3.543 in	Clear	Dynalon	**3UDV9** *	6
	2 L	120 mm	Clear	LSS	**6FAP7**	1
	4 L	153 mm	Clear	LSS	**6FAP8**	1
Environmental Sampling Bottle - Narrow Mouth						
HDPE	125 mL	50 mm	Clear	LSS	**6FAH1**	500
	250 mL	61 mm	Clear	LSS	**6FAH2**	250
	1 L	92 mm	Clear	LSS	**6FAH4**	50
Environmental Sampling Bottle - Wide Mouth						
HDPE	125 mL	51 mm	Clear	LSS	**6FAH5**	500
	250 mL	61 mm	Clear	LSS	**6FAH6**	250
	500 mL	73 mm	Clear	LSS	**6FAH7**	125
	1 L	91 mm	Clear	LSS	**6FAH8**	50
Sampling Bottle - Narrow Mouth						
HDPE	500 mL	73 mm	Clear	LSS	**6FAH3**	125
Octagonal-Square Bottles						
Polycarbonate	125 mL		Clear	Dynalon	**3UEH3**	6
	1 L		Clear	Dynalon	**3UEH6**	6

** Graduated bottle.*

Plastic Jars

Dynalon Labware quality . value . service

Easy-to-fill jars collect and store liquid and solid specimens. Include lids.

Body Material	Cap.	Item No.	Pkg. Qty.
Round			
HDPE	60 mL	**9A681**	10
	125 mL	**8MWC8**	10
	250 mL	**9V308**	10
	500 mL	**9JUP2**	10
	1,500 mL	**8TKF5**	10
	1 L	**8RAR2**	10
	2 L	**9CLW8**	10

Body Material	Cap.	Item No.	Pkg. Qty.
Polypropylene	30 mL	**3UCN6**	12
	60 mL	**3UCN9**	12
	125 mL	**3UCP3**	12
Straight Side Round			
Polypropylene	250 mL	**9DHY6**	10
	500 mL	**8ZEP6**	10
	1,183 mL	**9HZN6**	5
	1 L	**9PNL5**	5

Qorpak A Division of Berlin Packaging

39H551

3UEK4

Glass Jars

Straight-sided, wide-mouth design for efficient addition and removal of contents. Amber jars protect contents from UV rays and are ideal for light-sensitive materials.

Cap.	Body Color	Closure Liner Material	Screw Closure Size	Item No.	Pkg. Qty.
Precleaned Jars					
120 mL	Clear	PTFE	58-400 mm	**39H554**	24
	Amber	PTFE	58-400 mm	**39H551**	24
240 mL	Clear	PTFE	70-400 mm	**39H566**	24
	Amber	PTFE	70-400 mm	**39H564**	24
480 mL	Clear	PTFE	89-400 mm	**39H533**	12
960 mL	Clear	PTFE	89-400 mm	**39H543**	12
Safety Coated Jars					
240 mL	Clear	Pulp/Vinyl	70-400 mm	**41W198**	24
	Clear	F217/PTFE	70-400 mm	**3UEK4**	24

Bottle Top Dispensers

WHEATON® · DLAB

- Dispensers provide superior chemical resistance

Wheaton—Designed for handling liquids safely and provides reliable measuring. Feature in-lab calibration and instant volume setting. Attaches directly to bottles.

DLAB—Dispense common laboratory solvents and reagents with high accuracy and repeatability. Attach directly to bottles with standard GL45 thread.

Volume	Graduations	Accuracy	Includes	Brand	Item No.
0.1 to 2mL	0.1 mL	Less Than 0.35%	Reservoir 250mL	Wheaton	**23NC07**
0.25 to 2mL	0.05 mL	Less Than ±1.8%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	**23Y322**
0.5 to 5mL	0.1 mL	±0.025mL	Filling Tube and Adapter	DLAB	**46Z312**
1 to 5mL	0.1 mL	Less Than ±1.3%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	**23Y323**
1 to 10mL	0.2 mL	±0.05mL	Filling Tube and Adapter	DLAB	**46Z311**
1 to 10mL	0.2 mL	Less Than 0.35%	Reservoir 1000mL	Wheaton	**23NC09**
1 to 10mL	0.25 mL	Less Than ±1.1%	3 Bottle Top Adapters (28,40,45mm)	Wheaton	**23Y324**
2.5 to 25mL	0.5 mL	±0.125mL	Filling Tube and Adapter	DLAB	**46Z314**
2.5 to 25mL	0.5 mL	Less Than ±1.1%	3 Bottle Top Adapters 32,38 and 40mm, 350mm Feed Tube, Alternative Screw Type Volume Setting Button, Operating Instructions, QC Certificate	Wheaton	**23NC17**
5 to 50mL	1 mL	±0.25mL	Filling Tube and Adapter	DLAB	**46Z313**
5 to 50mL	1 mL	Less Than ±1.1%	3 Bottle Top Adapters 32,38 and 40mm, 350mm	Wheaton	**23NC18**
10 to 100mL	1 mL	Less Than ±1.1%	Feed Tube, Alternative Screw Type Volume Setting Button, Operating Instructions, QC Certificate	Wheaton	**23NC19**

23Y323

46Z313

Scan. Order. Done.
Details on page A1.

Narrow-Mouth Nonvented 24J919

Wide Mouth Vented Integrated Spout 24J895

Vented bottles avoid pressure buildup and solvent drips

Wide-Mouth Vented 24J904

No Imprinting Wide-Mouth 6FAU7

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Wash Bottles

- LDPE bottles with polypropylene caps

Integrated spout squeeze bottles provide quick, handy cleanout of laboratory glassware and plasticware.

Printed bottles save time and help eliminate cross-contamination.

Items beginning with "24J" are printed with chemical name and formula, Chemical Abstract Service number, and NFPA warning diamond for easy identification and safety compliance.

Note: Labware imprinting indicates imprinting on bottle, cap color, or write-on label.

Cap.	Spout Style	Labware Imprinting	Closure Color	Brand	Item No.	Pkg. Qty.
Narrow Mouth						
Vented						
500 mL		Acetone	Red	LSS	24J880	6
500 mL		Acetone, Distilled Water, Ethanol, Isopropanol, Methanol	Assorted	LSS	24J898	5
500 mL		Bleach, Sodium Hypochlorite	Blue	LSS	24J896	6
500 mL		Distilled Water	Natural	LSS	24J894	6
500 mL	Standard Spout	Ethanol	White	LSS	24J883	6
500 mL		Isopropanol	Yellow	LSS	24J889	6
500 mL		Methanol	Green	LSS	24J886	6
1,000 mL		Bleach, Sodium Hypochlorite	Blue	LSS	24J897	4
1,000 mL		Distilled Water	Natural	LSS	24J893	4
1,000 mL		Ethanol	White	LSS	24J882	4
1,000 mL		Isopropanol	Yellow	LSS	24J888	4
1,000 mL		Methanol	Green	LSS	24J885	4
1,000 mL		No Imprinting	Natural	LSS	24J915	4
Nonvented						
125 mL	Integrated Spout	No Imprinting	Clear	LSS	6FAV7	1
125 mL		No Imprinting		LSS	6FAV3	1
250 mL		Write-On	White	LSS	24J918	6
250 mL		No Imprinting	Clear	LSS	6FAV4	1
500 mL	Standard Spout	No Imprinting	Natural	LSS	24J899	6
500 mL		Isopropanol	Blue	Dynalon	3LDX4	5
500 mL		No Imprinting	Clear	LSS	6FAV5	1
500 mL	Integrated Spout	No Imprinting		Dynalon	3LET3	4
500 mL		Acetone	Red	Dynalon	3LDX2	5
500 mL		Distilled Water		Dynalon	3LDX1	5
500 mL		No Imprinting	White	Dynalon	8ACL7	5
500 mL	Standard Spout	Write-On		LSS	24J919	6
1,000 mL		No Imprinting	Clear	LSS	6FAV6	1
1,000 mL		No Imprinting	Red	Dynalon	9GE47	5
1,000 mL		Write-On	White	LSS	24J917	4
Wide Mouth						
Vented						
250 mL	Integrated Spout	Acetone	Red	LSS	24J879	4
250 mL	Standard Spout	Acetone, Ethanol, Isopropanol, Methanol, Write-On	Assorted	Dynalon	45G313	5

Cap.	Spout Style	Labware Imprinting	Closure Color	Brand	Item No.	Pkg. Qty.
250 mL	Integrated Spout	Distilled Water	Natural	LSS	24J892	4
250 mL		Methanol	Green	Dynalon	45G312	5
250 mL		Acetone	Red	Dynalon	45G309	5
250 mL		Ethanol	Orange	Dynalon	45G310	5
250 mL		Isopropanol	Blue	Dynalon	45G311	5
250 mL	Standard Spout	Write-On	Red	Dynalon	3LDV1	5
500 mL		Acetone, Ethanol, Isopropanol, Methanol, Write-On	Assorted	Dynalon	45G318	5
500 mL		Write-On	Red	Dynalon	3LDV2 *†	5
500 mL		Acetone		LSS	24J877	4
500 mL		Bleach, Sodium Hypochlorite	Blue	LSS	24J895	4
500 mL	Integrated Spout	Distilled Water	Natural	LSS	24J890	4
500 mL		Ethanol	White	LSS	24J881	4
500 mL		Isopropanol	Yellow	LSS	24J887	4
500 mL		Methanol	Green	LSS	24J884	4
500 mL		Acetone	Red	LSS	24J903	6
500 mL		Acetone		Dynalon	45G314	5
500 mL		Ethanol	White	LSS	24J905	6
500 mL		Ethanol	Orange	Dynalon	45G315	5
500 mL	Standard Spout	HMIG	Blue	LSS	24J902 ‡	6
500 mL		Isopropanol	Yellow	LSS	24J904	6
500 mL		Isopropanol	Blue	Dynalon	45G316	5
500 mL		Methanol	Green	LSS	24J901	6
500 mL		Methanol		Dynalon	45G317	5
750 mL	Integrated Spout	Acetone	Red	LSS	24J878	2
750 mL		Distilled Water	Natural	LSS	24J891	2
Nonvented						
250 mL	Integrated Spout	No Imprinting	Clear	LSS	6FAV8	1
250 mL		No Imprinting		LSS	6FAV0	1
250 mL		No Imprinting	Green	LSS	6FAU1	1
250 mL		No Imprinting	Red	LSS	6FAR8	1
250 mL		No Imprinting	Yellow	LSS	6FAU4	1
250 mL		No Imprinting	Blue	LSS	6FAU7	1
500 mL		No Imprinting	Clear	LSS	6FAV1	1
500 mL		No Imprinting	Yellow	LSS	6FAU5	1
500 mL		No Imprinting	Blue	Dynalon	3YJX1	5
500 mL		No Imprinting	Green	Dynalon	3UUN9	5
500 mL		No Imprinting	Red	Dynalon	3UUP3	5
500 mL		No Imprinting	White	Dynalon	8NDU7	5
500 mL		No Imprinting	Blue	LSS	6FAU8	1
500 mL		Bleach, Sodium Hypochlorite		LSS	24J908	6
500 mL		Deionized Water	Natural	LSS	24J909	6
500 mL		Ethyl Acetate	Green	LSS	24J913	6
500 mL		Machine Oil	Natural	LSS	24J914	6
500 mL	Standard Spout	Methyl Ethyl Ketone (MEK)	Green	LSS	24J907	6
500 mL		No Imprinting		LSS	6FAU2	1
500 mL		No Imprinting	Red	LSS	6FAR9	1
500 mL		Saline Solution	Natural	LSS	24J912	6
500 mL		Soap	Green	LSS	24J910	6
500 mL		Toluene	Red	LSS	24J911	6
500 mL		Water	Natural	LSS	24J906	6
500 mL		Write-On	White	LSS	24J920	6
1,000 mL		No Imprinting	Green	LSS	6FAU3	1
1,000 mL		No Imprinting	Clear	LSS	6FAV2	1
1,000 mL		No Imprinting	Blue	Dynalon	3UUP6	5
1,000 mL		No Imprinting	Green	Dynalon	3UUP9	5
1,000 mL		No Imprinting	Red	Dynalon	3UUR3	5
1,000 mL		No Imprinting	White	Dynalon	3UUR6	5
1,000 mL		No Imprinting	Yellow	LSS	6FAU6	1
1,000 mL		No Imprinting	Blue	LSS	6FAU9	1
1,000 mL		No Imprinting	Red	LSS	6FAU0	1
1,000 mL		Write-On	White	LSS	24J916	4

** Write-on, wipe-off labeling areas and included COSHH hazard symbols. † Drip-lock vapor venting. ‡ HMIG (Hazardous Materials Identification Guide) printing system identifies chemicals by a numerical hazard rating and designates required personal protective equipment.*

Solvent Dispensing Bottles MENDA

32EZ14

- HDPE bottles
- Stainless steel pumps
- Replacement bottles available on Grainger.com

Automatic dispensers operate one-handed without removing the lid. Imprinted units are labeled in nonsmearing ink with one of the three most commonly used chemical names.

One-Touch and Take-Along dispensers allow cotton or pad application, with excess fluid seeping back into the bottle.

Pure-Touch and Pure-Take dispensers reduce backflow risk with raised purity protector to keep fluid supply contaminant-free. Pure-Touch units reduce vapor escape; for use with noncotton brushes.

ESD (electrostatic dissipation) bottles are made of durAstatic HDPE and embossed with the ESD protective symbol for fast identification.

Description	Cap.	Body Color	Item No.
One-Touch Pumps			
Disp. Acetone ESD Bottle	236.6 mL	Blue	39H808
Disp. Bottle	118.3 mL	Clear	9NMT6
	236.6 mL	Clear	8APV1
Disp. Bottle, Take-Along		Clear	8ANJ4 *
Disp. ESD Bottle	118.3 mL	Blue	39H802
	236.6 mL	Blue	39H804
Grad. Acetone Disp. ESD Bottle		Blue	32EZ09
		Orange	39H793
Grad. Disp. Bottle		Clear	8PE95
Grad. Disp. Bottle, Take-Along		Clear	8ANJ3 *
Grad. Disp. ESD Bottle		Blue	39H803
	177.4 mL	Blue	39H805
		Green	39H795
Grad. Disp. ESD Bottle, Pure-Take		Blue	39H806
Grad. IPA Disp. ESD Bottle		Blue	32EZ14
		Orange	39H794
		Yellow	39H801
Pure-Touch Pumps			
Disp. Bottle	118.3 mL	Clear	8AMY7
	236.6 mL	Clear	8AMY9 *
Grad. Disp. Bottle	177.4 mL	Clear	8AMY8

** Locking top.*

28CP27

5YHL3

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Dropper Bottles

Glass—Narrow-mouth bottles have polypropylene stopper.

Plastic—Low-density polyethylene bottles have dropper cap.

6FAR3

39H776

Cap.	Dia.	H	Body Color	Brand	Item No.	Pkg. Qty.
Glass						
30 mL	40 mm	76 mm	Amber	LSS	5YHL1	12
	40 mm	124 mm	Clear	LSS	28CP27	12
60 mL	45 mm	132 mm	Amber	LSS	28CP29	12
	45 mm	132 mm	Clear	LSS	28CP28	12
120 mL	54 mm	153 mm	Amber	LSS	28CP30	12
125 mL	57 mm	110 mm	Amber	LSS	5YHL3	8
	57 mm	110 mm	Clear	LSS	5YHL0	8
Plastic						
15 mL	25 mm	60 mm	Clear	LSS	6FAR3	12
30 mL	36.5 mm	62 mm	Clear	LSS	6FAR4	12
50 mL	1.5 in	132 mm	Clear	Dynalon	8MTX0	10
60 mL	36 mm	91 mm	Clear	Dynalon	33N195	12
	40.5 mm	85 mm	Clear	LSS	6FAR5	12
100 mL	1.875 in	150 mm	Clear	Dynalon	8MTX1	10
125 mL	47 mm	115 mm	Clear	Dynalon	39H776	12
	51.5 mm	101 mm	Clear	LSS	6FAR6	12
250 mL	61.5 mm	133 mm	Clear	LSS	6FAR7	6

3VEY3

3UDJ6

6FAE5

Plastic Beakers

All beakers have a body material of polyproplene except 3VEV9 and 3VEW6 are PTFE. Low Form Beakers with Handle have a precise pouring spout and are autoclavable. Disposable beakers are nonsterile and autoclavable.

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Beakers with Handle				
100 mL	2 mL	Dynalon	**3VDU6**	1
250 mL	5 mL	Dynalon	**3VDU9**	1
500 mL	25 mL	Dynalon	**3VEX9**	1
	10 mL	Dynalon	**3VDV3**	1
1,000 mL	50 mL	Dynalon	**3VEY3**	1
	10 mL	Dynalon	**3VDV6**	1
	50 mL	LSS	**6FAF7**	1
	250 mL	LSS	**6FAF9**	1
2,000 mL	50 mL	Dynalon	**3VEY6**	1
	100 mL	LSS	**6FAF8**	1
	100 mL	LSS	**6FAH0**	1
3,000 mL	100 mL	Dynalon	**3VEY9**	1
5,000 mL	250 mL	Dynalon	**3VEZ3**	1
Beakers with Handle, Low Form				
100 mL	10 mL	LSS	**23X901**	6
	10 mL	LSS	**23X905**	6
250 mL	25 mL	LSS	**23X902**	6
600 mL	50 mL	LSS	**23X903**	6
	50 mL	LSS	**23X907**	6
5,000 mL	500 mL	LSS	**23X904**	2
	500 mL	LSS	**23X908**	2
Beakers, Low Form				
50 mL	5 mL	LSS	**6FAE3**	12
	2 mL	Dynalon	**8TP08**	20
100 mL	10 mL	LSS	**6FAF0**	12
	10 mL	LSS	**6FAE4**	12
	5 mL	Dynalon	**8ADJ1**	12
250 mL	25 mL	LSS	**6FAF1**	6
	25 mL	LSS	**6FAE5**	6
	10 mL	Dynalon	**8UKP1**	8
500 mL	10 mL	Dynalon	**8ADJ2**	6
600 mL	50 mL	LSS	**6FAE6**	4
1,000 mL	50 mL	LSS	**6FAF2**	3
	50 mL	LSS	**6FAE7**	3
	20 mL	Dynalon	**8VL47**	4
2,000 mL	100 mL	LSS	**6FAF3**	3
	100 mL	LSS	**6FAE8**	1
5,000 mL	250 mL	LSS	**6FAE9**	1
PTFE Beakers				
600 mL	Not Graduated	Dynalon	**3VEV9**	1
2,000 mL	Not Graduated	Dynalon	**3VEW6**	1
Giant Beaker				
10 L	200 mL	SP Scienceware	**8AF78**	1
Graduated Pitchers				
5 L	100 mL	SP Scienceware	**8RZE4**	1
10 L	200 mL	SP Scienceware	**9ATJ7**	1
Square Ratio Beakers				
100 mL	10 mL	Dynalon	**3VEZ9**	10
500 mL	50 mL	Dynalon	**3VFA6**	10
1,000 mL	100 mL	Dynalon	**3VFC3**	5
Disposable Beakers				
50 mL	5 mL	LSS	**3UDH9**	100
100 mL	5 mL	LSS	**3UDJ3**	100
250 mL	10 mL	LSS	**3UDJ6**	50
400 mL	25 mL	LSS	**3UDJ9**	50
600 mL	25 mL	LSS	**3UDK3**	25

Tri-Corner, Disposable

Triangular Beakers

- Polypropylene

Offer superior chemical resistance. Feature pour spout for easy pouring and handling.

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Tri-Corner, Disposable				
50 mL	5 mL	Globe Scientific	**46AX38**	100
100 mL	10 mL	Globe Scientific	**46AX37**	100
250 mL	10 mL	Globe Scientific	**46AX35**	100
400 mL	20 mL	Globe Scientific	**46AX36**	100
800 mL	50 mL	Globe Scientific	**46AX39**	100
1,000 mL	50 mL	Globe Scientific	**46AX34**	100
Tri-Corner, Reusable				
50 mL	10 mL	United	**23YW29**	100
100 mL	10 mL	United	**23YW30**	100
250 mL	20 mL	United	**23YW31**	100
400 mL	40 mL	United	**23YW32**	100
800 mL	50 mL	United	**23YW33**	100
1,000 mL	50 mL	United	**23YW34**	100

38VK06

5YHA4

Glass Beakers

- Borosilicate glass

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Beakers, Low Form				
50 mL	10 mL	Kimble	**38VK08**	48
100 mL		Kimble	**38VK04**	48
150 mL	20 mL	Kimble	**38VK05**	48
250 mL	25 mL	Kimble	**38VK06**	48
400 mL		Kimble	**38VK07**	48
400 mL		Kimble	**38VK10**	48
600 mL	50 mL	Kimble	**38VJ93**	36
600 mL		Kimble	**38VJ94**	36
1,000 mL		Kimble	**38VJ72**	24
1,000 mL		Kimble	**38VJ73**	24
1,500 mL	100 mL	Kimble	**38VJ63**	16
2,000 mL		Kimble	**38VK31**	8
2,000 mL		Kimble	**38VK32**	8
4,000 mL	250 mL	Kimble	**38VJ97**	4
4,000 mL		Kimble	**38VK22**	6
Beakers with Pouring Spout, Low Form				
5 mL	1 mL	LSS	**5YGY6**	12
10 mL	2 mL	LSS	**5YGY7**	12
25 mL	5 mL	LSS	**5YGY8**	12
50 mL	10 mL	LSS	**5YGY9**	12
100 mL	20 mL	LSS	**5YGZ0**	12
150 mL	25 mL	LSS	**5YGZ1**	12
250 mL	50 mL	LSS	**5YGZ2**	12
400 mL		LSS	**5YGZ3**	6
500 mL	100 mL	LSS	**5YGZ4**	6
600 mL		LSS	**5YGZ5**	6
800 mL		LSS	**5YGZ6**	6
1,000 mL	200 mL	LSS	**5YGZ7**	6
2,000 mL		LSS	**5YGZ8**	4
3,000 mL	500 mL	LSS	**5YGZ9**	4
5,000 mL	1,000 mL	LSS	**5YHA0**	1
Beakers with Pouring Spout, Tall Form				
50 mL	10 mL	LSS	**5YHA1**	12
100 mL	20 mL	LSS	**5YHA2**	12
150 mL	25 mL	LSS	**5YHA3**	12
250 mL	50 mL	LSS	**5YHA4**	12
400 mL		LSS	**5YHA5**	12
600 mL	100 mL	LSS	**5YHA6**	6
800 mL		LSS	**5YHA7**	6
1,000 mL		LSS	**5YHA8**	6
2,000 mL	200 mL	LSS	**5YHA9**	4
Heavy Duty Beakers with Pouring Spout, Low Form				
250 mL	25 mL	Kimble	**26CV54** *	12
250 mL		Kimble	**38VK09**	48
Lab Mugs, Tall Form with Handle				
500 mL	50 mL	Kimble	**8AZX0**	6

** Matte finish marking area and graduated blue scale.*

3UUR5

9KWC6

Graduated Cylinders

Cap.	Graduation Subdivisions	Brand	Item No.	Pkg. Qty.
Polymethylpentene (PMP)				
10 mL	0.2 mL	LSS	**9MF02**	1
25 mL	0.5 mL	LSS	**9EX72**	1
50 mL	1 mL	LSS	**9GE56**	1
100 mL	1 mL	LSS	**9L456**	1
250 mL	2 mL	LSS	**8ADT5**	1
500 mL	5 mL	LSS	**8ADU7**	1
1,000 mL	10 mL	LSS	**8NEA0**	1
2,000 mL	20 mL	LSS	**9RTD2**	1
Polypropylene				
10 mL	0.2 mL	LSS	**9WJ86**	1
50 mL	1 mL	LSS	**4YMU2**	1
100 mL	1 mL	LSS	**9L458**	1
100 mL	2 mL	Dynalon	**3UUR5**	5
250 mL	5 mL	Dynalon	**3UUR8**	1
500 mL	10 mL	Dynalon	**3UUT2**	1
1,000 mL	10 mL	LSS	**9NNX3**	1
1,000 mL	20 mL	Dynalon	**3UUT5**	1
2,000 mL	20 mL	LSS	**8ADU8**	1
4,000 mL	50 mL	Dynalon	**8XUL0**	1
Polypropylene, with Spout				
50 mL	1 mL	LSS	**5PTJ4**	12
100 mL	1 mL	LSS	**5PTJ5**	12
250 mL	5 mL	LSS	**5PTJ6**	12
500 mL	5 mL	LSS	**5PTJ7**	12
1,000 mL	10 mL	LSS	**5PTJ8**	12
Type 1 Borosilicate Glass, with Bumper, Class A				
100 mL	1 mL	Kimble	**9KWC6**	1
250 mL	2 mL	Kimble	**9GC91**	1
500 mL	5 mL	Kimble	**8NAV0**	1
1,000 mL	10 mL	Kimble	**8NAV1**	1
Type 1 Glass, with Spout				
10 mL	0.2 mL	LSS	**5YHX8**	12
25 mL	0.5 mL	LSS	**5YHX9**	12
50 mL	1 mL	LSS	**5YHY0**	12
100 mL	1 mL	LSS	**5YHY1**	12
250 mL	2 mL	LSS	**5YHY2**	6
500 mL	5 mL	LSS	**5YHY3**	2
1,000 mL	10 mL	LSS	**5YHY4**	2
2,000 mL	20 mL	LSS	**5YHY5**	1
Type 1 Glass, with Stopper				
25 mL	0.5 mL	LSS	**5YHY7**	12
50 mL	1 mL	LSS	**5YHY8**	12
100 mL	1 mL	LSS	**5YHY9**	12
250 mL	2 mL	LSS	**5YHZ0**	6

Flasks

Designed for safely making solutions in laboratory environments; allowing liquid solutions to be collected and contained for samples from various reactions due to heating, cooling, dissolving, and boiling.

5YHN2

8AGC7

Cap.	Body Material	Graduation Subdivisions	Stopper Size	Brand	Item No.	Pkg. Qty.
Conical Flasks with Ground Mouth						
10mL	Glass	5mL	10/19	LSS	**5YHN6**	12
150mL	Glass	25mL	19/26	LSS	**5YHP8**	12
	Glass	25mL	24/29	LSS	**5YHP9**	12
250mL	Glass	50mL	24/29	LSS	**5YHR2**	12
Erlenmeyer Flasks, Narrow Neck						
50mL	Glass	10mL	—	LSS	**5YHL5**	12
100mL	Glass	20mL	—	LSS	**5YHL6**	12
250mL	Glass	50mL	—	LSS	**5YHL7**	12
500mL	Glass	100mL	—	LSS	**5YHL8**	12
1,000mL	Glass	100mL	—	LSS	**5YHL9**	6
2,000mL	Glass	500mL	—	LSS	**5YHN0**	6
4,000mL	Borosilicate Glass	250mL	10	Kimble	**9PP30**	1
6,000mL	Borosilicate Glass	500mL	10	Kimble	**8AFR0**	1
Erlenmeyer Flasks, Wide Neck						
100mL	Glass	20mL	—	LSS	**5YHN2**	12
125mL	Borosilicate Glass	25mL	6	Kimble	**38VK13**	48
250mL	Borosilicate Glass	25mL	8	Kimble	**38VK14**	48
	Glass	50mL	—	LSS	**5YHN3**	12
500mL	Borosilicate Glass	50mL	10	Kimble	**38VJ96**	36
1,000mL	Borosilicate Glass	50mL	11	Kimble	**38VJ75**	24
2,000mL	Borosilicate Glass	100mL	13	Kimble	**38VK35**	8
Volumetric Flasks, Class A						
10mL	Borosilicate Glass	—	9	Kimble	**8AGC7**	12
	Glass	—	10/11	LSS	**5YHZ4**	12
25mL	Glass	—	10/13	LSS	**5YHZ5**	12
50mL	Glass	—	10/13	LSS	**5YHZ6**	12
100mL	Glass	—	12/14	LSS	**5YHZ7**	8
	Borosilicate Glass	—	18	Kimble	**9MC75**	12
200mL	Glass	—	14/15	LSS	**5YHZ8**	6
250mL	Glass	—	14/15	LSS	**5YHZ9**	6
500mL	Glass	—	16/16	LSS	**5YJA0**	4
	Borosilicate Glass	—	19	Kimble	**9HRE3**	12
1,000mL	Glass	—	19/17	LSS	**5PRZ1**	2
Volumetric Flasks, Class B						
10mL	Glass	—	10/11	LSS	**5PRZ4**	12
25mL	Glass	—	10/13	LSS	**5PRZ5**	12
50mL	Glass	—	10/13	LSS	**5PRZ6**	12
100mL	Glass	—	12/14	LSS	**5PRZ7**	8
200mL	Glass	—	14/15	LSS	**5PRZ8**	6
500mL	Glass	—	16/16	LSS	**5PTA0**	4

Sampling Bags

- Low-density polyethylene
- ETO sterilization certificate
- Attached wire ties

407L42

24J930

Cap.	Thickness	Brand	Item No.	Pkg. Qty.
Clear				
2 oz	0.14 mm	LSS	**24J934**	500
	0.057 mm	Whirl-Pak	**407L33**	500
4 oz	0.14 mm	LSS	**24J921**	500
	0.057 mm	Whirl-Pak	**407L35**	500
7 oz	0.14 mm	LSS	**24J925**	500
	0.076 mm	Whirl-Pak	**407L37**	500
13 oz	0.14 mm	LSS	**24J935**	500
	0.076 mm	Whirl-Pak	**407L39**	500
18 oz	0.14 mm	LSS	**24J922**	500
	0.064 mm	Whirl-Pak	**407L41**	500
24 oz	0.17 mm	LSS	**24J924**	500
	0.076 mm	Whirl-Pak	**407L44**	500
27 oz	0.14 mm	LSS	**24J931**	500
	0.076 mm	Whirl-Pak	**407L48**	500
36 oz	0.14 mm	LSS	**24J929**	500
	0.076 mm	Whirl-Pak	**407L50**	500
42 oz	0.17 mm	LSS	**24J926**	500
	0.076 mm	Whirl-Pak	**407L51**	500
70 oz	0.2 mm	LSS	**24J927**	500
100 oz	0.2 mm	LSS	**24J936**	250
120 oz	0.2 mm	LSS	**24J928**	250
123 oz	0.102 mm	Whirl-Pak	**407L57**	250
Write-On				
2 oz	0.14 mm	LSS	**24J932**	500
	0.057 mm	Whirl-Pak	**407L34**	500
4 oz	0.14 mm	LSS	**24J933**	500
	0.057 mm	Whirl-Pak	**407L36**	500
18 oz	0.14 mm	LSS	**24J923**	500
	0.064 mm	Whirl-Pak	**407L42**	500
24 oz	0.17 mm	LSS	**24J930**	500
	0.076 mm	Whirl-Pak	**407L45**	500

Glass
3WDW3

With Handle & Pour Spout
24AM99

LDPE
49H011

Carboys

Glass—Neck is fabricated for a uniform fit with a #12 rubber stopper.

Plastic—Top handles provide easier transport and pouring. Spigot models allow for easy liquid dispensing.

Cap.	Body Material	Closure Type	Includes	H	Dia.	Brand	Item No.
Carboy Solution Bottle Glass							
13.2 L	Type I Borosilicate Glass	Stopper	—	448 mm	275 mm	Kimble	**3WDW3**
Carboy, Plastic							
5 L	HDPE	Screw On and Spigot	Handle and Pour Spout	345.4 mm	163 mm	Dynalon	**24AM97**
10 L			Handle and Pour Spout	424.2 mm	210 mm	Dynalon	**24AM98**
25 L			Handle and Pour Spout	563.9 mm	379 mm	Dynalon	**24AM99**
50 L			Handle and Pour Spout	599.4 mm	366 mm	Dynalon	**24AN01**
5 L		Screw On	Handle	345.4 mm	163 mm	Dynalon	**24AN05**
			Handle	345.4 mm	163 mm	Dynalon	**24AN03**
10 L			Handle	424.2 mm	210 mm	Dynalon	**24AN06**
			Handle	424.2 mm	210 mm	Dynalon	**24AN04**
9.993 L	LDPE	Screw On and Spigot	Stopcock	376.23 mm	83 mm	LSS	**49H036**
19.98 L			Stopcock	518.31 mm	83 mm	LSS	**49H037**
49.96 L			Stopcock	665.16 mm	83 mm	LSS	**49H038**
9.993 L		Screw On	—	376.23 mm	83 mm	LSS	**49H013**
19.98 L			—	549.27 mm	83 mm	LSS	**49H011**
49.96 L			—	665.16 mm	83 mm	LSS	**49H012**
9.993 L	Polypropylene	Screw On and Spigot	Stopcock	376.23 mm	83 mm	LSS	**49H033**
19.98 L			Stopcock	518.31 mm	83 mm	LSS	**49H034**
49.96 L			Stopcock	665.16 mm	83 mm	LSS	**49H035**
9.993 L		Screw On	—	376.23 mm	83 mm	LSS	**49H028**
19.98 L			—	518.31 mm	83 mm	LSS	**49H029**
			—	549.27 mm	83 mm	LSS	**49H016**

Buchner Porcelain Funnels

Funnels have heavy wall stems with a sealed-in porcelain fritted disc and is beaded at the top for additional strength. Not recommended for use where pressure would exceed 15 psi.

36A373

Cap.	Funnel Top I.D.	H	Stem L	Mfr. Model	Item No.
35mL	45.4 mm	93.2 mm	44.58 mm	CG-1888-01	**36A373**
100mL	57.88 mm	115.56 mm	54.5 mm	CG-1888-02	**36A374**
200mL	76 mm	141.2 mm	57.84 mm	CG-1888-03	**36A375**
350mL	94.61 mm	162.71 mm	76.36 mm	CG-1888-04	**36A376**
600mL	115.68 mm	208.22 mm	100.68 mm	CG-1888-05	**36A377**
800mL	104 mm	215.9mm	132 mm	CG-1888-06	**36A378**
1,150mL	164.85 mm	230 mm	104.1 mm	CG-1888-07	**36A379**

Separatory Plastic Funnels

Short stemmed funnels feature a narrow stem mouth. Designed to decant two immiscible fluids into containers with small openings, reducing spillage.

5PTK5

Funnel Max O.D.	Funnel Top I.D.	Stem L	Item No.
60 mm Rim	57 mm	30 mm	**5PTK5**
90 mm Rim	86 mm	104 mm	**5PTK7**
100 mm Rim	95 mm	45 mm	**5PTK8**
120 mm Rim	115 mm	45 mm	**5PTK9**

Specimen Containers

32V493

32V490

Cap.	Body Material	Closure Material	Item No.	Pkg. Qty.	
Jars					
125mL	PP	PP	**32V496**	12	
250mL	Polycarbonate	PP	**32V493**	12	
	PP	PP	**32V497**	12	
500mL	Polycarbonate	PP	**32V494**	6	
	PP	PP	**32V498**	6	
1 L	PP	PP	**32V499**	6	
Containers					
100mL	PP	HDPE	**32V490**	280	*†
	PP	HDPE	**32V491**	280	†

** Sterile. † Frosted writing area.*

Glass Test Tubes

Culture Tubes are disposable screw-cap tubes suitable for tissue culture and general bacteriological use. Chevron marking area. Shrink-wrapped in plastic film and packed in convenient trays. Screw caps sold separately; see 9UDE6, 9PX55, and 9UDE8 on Grainger.com.

Kimble Chase Test Tubes are disposable.

Test Tubes with and without Rim are high-quality Type 1 borosilicate glass that stands up to repeated sterilization, extreme high temperatures, and thermal shock from sudden temperature changes. Low-expansion glass withstands temperatures up to 932°F (500°C).

Nominal Cap.	Outside Dia.	L	Brand	Item No.	Pkg. Qty.
Culture Tube					
8 mL	13 mm	100 mm	Kimble	**8AZ82**	1000
16 mL	16 mm	125 mm	Kimble	**8PAK1**	1000
Test Tube					
4 mL	10 mm	75 mm	Kimble	**8R681**	1000
6 mL	12 mm	75 mm	Kimble	**4YNA8**	1000
10 mL	13 mm	100 mm	Kimble	**4YNA9**	1000
15 mL	16 mm	100 mm	Kimble	**8UN07**	1000
19 mL	16 mm	125 mm	Kimble	**8Z669**	1000
23 mL	16 mm	150 mm	Kimble	**8Z670**	1000
29 mL	18 mm	150 mm	Kimble	**4YNC1**	500
60 mL	25 mm	150 mm	Kimble	**4YNC2**	500
Test Tube without Rim					
4 mL	10 mm	75 mm	—	**8FYE1**	72
8 mL	12 mm	100 mm	—	**8RUZ3**	72
14 mL	16 mm	100 mm	—	**8NHP1**	72
15 mL	15 mm	125 mm	—	**9CXD1**	72
24 mL	18 mm	150 mm	—	**8FYE2**	72
60 mL	25 mm	150 mm	—	**9GMU0**	72
Test Tube with Rim					
3 mL	10 mm	75 mm	LSS	**5PTF9**	72
4 mL	10 mm	75 mm	—	**8RUZ2**	72
8 mL	12 mm	100 mm	—	**9AMA1**	72
14 mL	16 mm	100 mm	—	**8FYD8**	72
15 mL	15 mm	125 mm	—	**9LJV8**	72
16 mL	16 mm	125 mm	—	**8ZRW5**	72
20 mL	16 mm	150 mm	LSS	**5PTG1**	72
24 mL	18 mm	150 mm	—	**9MJY7**	72
25 mL	18 mm	150 mm	LSS	**5PTG2**	72
35 mL	20 mm	150 mm	LSS	**5PTG3**	72
36 mL	20 mm	150 mm	—	**8FYD9**	72
60 mL	25 mm	150 mm	LSS	**5PTG4**	72
60 mL	25 mm	150 mm	—	**8FYE0**	72

Culture Tube 8AZ82

Test Tube with Rim 5PTF9

Glass Vials

- Type 1 borosilicate glass
- Amber vials protect light-sensitive samples

48H806

3LDT2

41U626

Cap.	Closure Liner Material	Neck Size	Body Color	Brand	Item No.	Pkg. Qty.
Sample Vial with Cap						
2 mL		8-425	Clear	Wheaton	**48H806**	288
4 mL	Rubber	13-425	Amber	Wheaton	**48H813**	144
8 mL		15-425	Clear	Wheaton	**48H808**	144
12 mL	PTFE/Rubber	15-425	Clear	Wheaton	**48H823**	144
16 mL		18-400	Clear	Wheaton	**48H810**	144
20 mL	Rubber	24-400	Clear	Wheaton	**48H817**	72
40 mL		24-400	Clear	Wheaton	**48H819**	72
Scintillation Vial with Cap						
20 mL	—	22-400	Clear	—	**3LDT3**	100
20 mL	PTFE	22-400	Clear	—	**3LDT4**	100
20 mL	Pulp/Foil	22-400	Clear	—	**3LDT2**	100
Screw-Thread Vial with Cap						
1.85 mL	F217/PTFE	8-425	Amber	Qorpak	**41U652**	144
1.85 mL		8-425	Clear	Qorpak	**41U625**	144
4 mL	—	13-425	Clear	Qorpak	**41U626**	144
11 mL		15-425	Clear	Qorpak	**41U628**	144
15 mL		18-400	Clear	Qorpak	**41U630**	144
20 mL	F217/PTFE	24-400	Clear	Qorpak	**41U651**	144
40 mL		24-400	Clear	Qorpak	**41U639**	72
300 mL		24-400	Clear	Qorpak	**41U665**	72
Screw-Thread Vial with Cap, Vacuum and Ionized						
4 mL		13-425	Clear	Qorpak	**41U645**	144
7.5 mL	F217/PTFE	15-425	Clear	Qorpak	**41U646**	144
20 mL		24-400	Clear	Qorpak	**41U668**	144
40 mL		24-400	Clear	Qorpak	**41U640**	72
Vial with 0.5 mL 50% Hydrochloric Acid						
40 mL	PTFE/Silicone	24-414	Amber	ESS	**8XU71**	72
40 mL		24-414	Clear	ESS	**8Z472**	72
Vial with 25 mg Ascorbic Acid						
40 mL	PTFE/Silicone	24-414	Clear	ESS	**9PPH6**	72

404R81

404R78

404R77

Labware Supports

These multipurpose supports are designed to securely grip and position laboratory supplies. For our complete selection of supports and connectors, go to Grainger.com.

Description	Body Material	L	Item No.
Column Clamp, Max. Jaw Opening: 1.54 in	Nickel-Plated Zinc	12.4 in	**404T92**
Erlenmeyer Flask Clamp	Aluminum	1.5 in	**404R29**
Gas Cylinder Stand	Cast Aluminum	—	**404R81**
Inoculating Turntable, Dia.: 4.49 in	Cast Iron	—	**404R78**
Inoculating Turntable, Dia.: 5.91 in	Cast Iron	—	**404R77**
Lab Frame, Foot S/S	Aluminum	1.5 in	**404R09**
Lab Frame Rkit	Nickel-Plated Zinc	—	**404R23**
Large 3 Prong Sleeves	Fiberglass	—	**404W37**
Large 3 Prong Sleeves,Black	Vinyl	—	**404W40**
Medium 2 Prong Sleeves	Fiberglass	—	**404W29**
Medium 3 Prong Sleeves,Black	Vinyl	—	**404W39**
Medium Lab Frame Kit, Max. Jaw Opening: 1.5 in	Nickel-Plated Zinc	18 in	**404T91**
Mounting Bar Coupler	Aluminum	4 in	**404R13**
Small 3 Prong Sleeves	Vinyl	—	**404W38**
Small 3 Prong Sleeves,Gray	Fiberglass	—	**404W33**
Small 3 Prong Sleeves,Red	Vinyl	—	**404W32**
Support Rod Kit	Stainless Steel	17 in	**404U27**
Support Stand	Cast Iron	—	**404T30**
Tripod Support Stand	Cast Iron	—	**404T75**

Ampules

Standard—Commonly used for packaging certified standards. Made from low-potassium borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements.

Prescored—Prescoring eliminates filing. Stems can be pull- or tip-sealed. Clear models are made from low extractable borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements. Amber models are made from amber borosilicate glass that conforms to USP Type 1 requirements for light transmission to protect light-sensitive products.

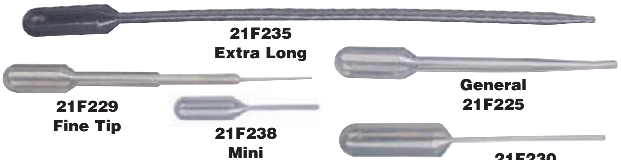
Cryogenic—Cryule ampules allow for biological sample preservation in glass and storage at low temperatures. Can be used in the vapor phase of liquid nitrogen. For Cryogenic Gloves, sold separately, see page 1705. Made from low extractable borosilicate glass that conforms to USP Type 1 and ASTM E 438 Type 1, Class A requirements.

23MV66

23MV73

23MV68

Cap.	Item No.	Pkg. Qty.
Standard		
1 mL	**23MV67**	25
7 mL	**23MV66**	25
Prescored		
Amber		
1 mL	**23MV73**	144
2 mL	**23MV74**	144
5 mL	**23MV75**	144
Clear		
1 mL	**23MV68**	144
2 mL	**23MV69**	144
5 mL	**23MV70**	144
10 mL	**23MV71**	144
20 mL	**23MV72**	144
Cryogenic		
1.2 mL	**23MV79**	144
Prescored		
2 mL	**23MV85**	144
2 mL	**23MV86**	144



21F230
Narrow Stem

Nonsterile Transfer Pipettes

LSS

Low-density polyethylene (LDPE) construction. Graduated pipettes offer more accurate volume measurement.

Cap.	L	Item No.	Pkg. Qty.
Standard			
Extra Long			
6mL	22.6 cm	**21F235**	500
Fine Tip			
1.5mL	10.4 cm	**21F229**	1000
5.8mL	14.9 cm	**21F234**	500
5.8mL	15.6 cm	**21F244**	500
8.7mL	14.7 cm	**21F242**	400
General			
2mL	8.7 cm	**21F222**	1000
4mL	13.0 cm	**21F231**	500
5mL	15.4 cm	**21F225**	500
7.5mL	15.6 cm	**21F226**	500
8mL	15.2 cm	**21F227**	500
9mL	13.7 cm	**21F240**	500

Cap.	L	Item No.	Pkg. Qty.
Mini			
1mL	6.9 cm	**21F246**	1000
1.2mL	6.5 cm	**21F239**	1000
1.5mL	70 mm	**21F247**	1000
4mL	8.5 cm	**21F238**	500
Narrow Stem			
4.5mL	15.5 cm	**21F233**	500
15mL	15.5 cm	**21F230**	500
Pasteur			
1mL	153 mm	**6FAV9**	500
3mL	153 mm	**6FAW0**	500
Graduated			
3mL	14 cm	**21F223**	500
Fine Tip			
3mL	14.8 cm	**21F249**	500
Narrow Stem			
1.5mL	11.6 cm	**21F237**	500
2mL	15.5 cm	**21F224**	500
5mL	14.5 cm	**21F236**	500
5mL	15.0 cm	**21F232**	500
7mL	15.5 cm	**21F228**	500

11L798

4YMV2

Serological Pipettes

LSS Dynalon Labware quality . value . service

- Easy-to-read markings

Ascending and descending graduations ensure accurate pipetting. Calibrated "to deliver" (TD) to within the tolerance shown. Sterilized with gamma radiation.

Lab Safety Supply—Polystyrene pipettes with easy-to-read graduations printed in black ink, and premium-material filter plug. Color-coded stripes and packaging enable quick volume identification.

Dynalon—Made of crystal-grade polystyrene for improved clarity. Drawn tips allow every drop to drain freely. Cotton plugged. Nonpyrogenic to 0.01EU/mL. Bulk pack 4YMV2 has inner packs of 25.

Cap.	Graduation Subdivisions	Tolerance	L	Brand	Item No.	Pkg. Qty.
Bulk						
1mL	0.01mL	±2%	10.5 in	LSS	**11L798**	1000
2mL	0.02mL	±2%	10.5 in	LSS	**11L799**	800
5mL	0.1mL	±2%	13.5 in	LSS	**11L801**	500
10mL	0.1mL	±2%	13.5 in	LSS	**11L802**	500
	0.1mL	±1%	11.9 in	Dynalon	**4YMV2**	500
25mL	0.2mL	±2%	12.0 in	LSS	**11L803**	200
50mL	0.5mL	±2%	13.5 in	LSS	**11L804**	200
Individually Wrapped						
1mL	0.01mL	±2%	10.5 in	LSS	**11L805**	800
	0.01mL	±1%	11.0 in	Dynalon	**8VXX5**	1000
2mL	0.02mL	±2%	10.5 in	LSS	**11L806**	600
5mL	0.1mL	±2%	13.5 in	LSS	**11L807**	200
	0.1mL	±1%	11.7 in	Dynalon	**9LUZ0**	200
10mL	0.1mL	±2%	13.5 in	LSS	**11L808**	200
	0.1mL	±1%	13.1 in	Dynalon	**8AP03**	500
25mL	0.2mL	±2%	12.0 in	LSS	**11L809**	200
	0.2 mL	±1%	13.7 in	Dynalon	**4YMU9**	200
50mL	0.5mL	±2%	13.5 in	LSS	**11L810**	90
	1.0mL	±1%	13.5 in	Dynalon	**8AP04**	50

23Y321

21R857

23Y316

20AR73

WHEATON® DLAB CELLTREAT® SCIENTIFIC PRODUCTS www.celltreat.com

Pipette Fillers and Controllers

Pipette Fillers - Fixed Volume—For use with graduated and plastic pipettes. Operate using one hand. Aspirate by rotating wheel.

Pipette Controllers - Manual—Adjustable volume Wheaton and Dlab models feature a large-capacity bulb, soft-action lever button, and efficient blow-out system.

Pipette Controller - Electronic—Adjustable volume 20AR73 offers an adjustable dial for speed setting, low pressure fingertip control buttons, and is rechargeable. Includes rechargeable battery, adhesive mounting bracket, rubber grommet/nosepiece, 0.45-µm pore filter, and 120 VAC power adapter/charger.

Range	Color	Brand	Item No.	Pkg. Qty.
Pipette Fillers - Fixed Volume, Manual				
2mL	Blue	Wheaton	**23Y318**	1
10mL	Green	Wheaton	**23Y319**	1
25mL	Red	Wheaton	**23Y320**	1
2mL, 10mL, 25mL	Blue, Green, Red	Wheaton	**23Y321**	3
Pipette Controllers - Adjustable Volume, Manual				
0.1 to 100mL	Light Gray/ Blue	Dlab	**21R854**	1
0.1 to 100mL	Light Gray/ Green	Dlab	**21R856**	1
0.1 to 100mL	Light Gray/ Yellow	Dlab	**21R857**	1
0.1 to 100mL	Light Gray/ Pink	Dlab	**21R858**	1
1 to 100mL	Gray	Wheaton	**23Y316**	1
Pipette Controller - Adjustable Volume, Electronic				
1 to 100mL	White	Celltreat	**20AR73**	1

21R709

49WF09

21R755

21R749

Pipette Tips

WHEATON® LSS

- For our full selection of tips, go to Grainger.com

Available in rack pack, hinged boxes, or resealable bags. Made from 100% virgin polypropylene and free of mold releasing agents/additives.

Filter Tips come with a hydrophobic polyethylene filter that serves as barrier against aerosols formed during pipetting.

Cap.	Color	Packaging	Brand	Item No.	Pkg. Qty.	
Micro Tips						
1 to 200uL	Yellow	Rack Pack	Wheaton	**49WF09**	960	
200uL	Neutral	Autoclavable PP Box	LSS	**21R709**	960	*
1000uL	Neutral	Autoclavable PP Box	LSS	**21R711**	960	*
5000uL	Neutral	Resealable LDPE Polybag	LSS	**21R695**	100	
5000uL	Neutral	Resealable LDPE Polybag	LSS	**21R696**	100	†
10,000uL	Neutral	Resealable LDPE Polybag	LSS	**21R698**	100	‡
Filter Tips						
10uL	Neutral	Autoclavable PP Box	LSS	**21R749**	960	
1000uL	Neutral	Autoclavable PP Box	LSS	**21R755**	960	*

** Sterile. † Graduated. ‡ Extra Long Tip.*

3KWJ2

Pipette Storage Racks

Heathrow Scientific

Help protect your glass and plastic pipettes, avoid clutter, and keep them within easy reach. 8CCA0 and 3KWJ2 each come with two removable attachments that hold pipette bulbs, fillers, and pumps. 3KWJ2 has strong magnets on both sides for mounting on most metal surfaces.

Material	Color	L	W	H	Brand	Item No.
Pipette Rack, 4 Shelved Compartments						
ABS	Blue	11 ½ in	3 ½ in	15 ¾ in	Heathrow Scientific	**8CCA0**
Magnetized Pipette Rack, 4 Shelved Compartments						
ABS	Blue	11 ½ in	3 ½ in	15 ¾ in	Heathrow Scientific	**3KWJ2**
Storage Rack						
ABS	Purple	5 ¾ in	3 ⅜ in	5 in	Heathrow Scientific	**6PTL5**
Horizontal Pipette Storage Rack						
Polypropylene	White	8 ¼ in	6 ⅛ in	8 ⅝ in	—	**3KVT7**

Eppendorf
44C793

Dragonlab
21R764

Nichiryo
8DZM8

Wheaton
23Y303

Single Channel Pipetters

Dragon Lab pipetters are easy to calibrate and maintain with the included tool. Digital display shows volume setting. Low-force design helps reduce repetitive strain injuries.

Eppendorf Research Plus high-precision pipetters have a spring-loaded tip cone and are autoclavable.

Nichiryo autoclavable pipetters feature excellent solvent resistance and one-touch calibration. Digital display allows easy incremental volume adjustment. They have ceramic pistons, filtered nozzles, and a nonmetallic tip ejector for safe disposal of used tips.

Wheaton Acura autoclavable pipetters feature ultrasoft plunger for tip ejection, ejector shaft height adjustment system, and swift-set user calibration.

Range	Color	Item No.
Fixed Volume		
Dlab		
5µL	Light Gray/Dark Blue	21R803
10µL		21R804
10µL	Light Gray/Light Blue	21R775
20µL		21R776
20µL	Light Gray/Dark Blue	21R805
25µL		21R806
25µL	Light Gray/Light Blue	21R777
50µL		21R778
50µL	Light Gray/Dark Blue	21R807
100µL	Light Gray/Light Blue	21R779
100µL	Light Gray/Dark Blue	21R808
200µL	Light Gray/Light Blue	21R780
200µL	Light Gray/Dark Blue	21R809
250µL		21R810
250µL	Light Gray/Light Blue	21R781
500µL	Light Gray/Dark Blue	21R811
500µL	Light Gray/Light Blue	21R782
1000µL	Light Gray/Dark Blue	21R812
1000µL	Light Gray/Light Blue	21R783
2000µL		21R784
2000µL	Light Gray/Dark Blue	21R813
5000µL		21R814
5000µL	Light Gray/Light Blue	21R785
Dlab Polycarbonate		
5µL	Light Gray/Purple	21R831
10µL		21R832
20µL		21R833
25µL		21R834
50µL		21R835
100µL		21R836
200µL		21R837
250µL		21R838
500µL		21R839
1000µL		21R840
2000µL		21R841
5000µL		21R842
Eppendorf Research Plus		
100µL	Yellow	44C793
1000µL	Blue	44C798
Adjustable Volume		
Dlab		
0.1-2.5µL	Light Gray/Light Blue	21R764
0.1-2.5µL	Light Gray/Dark Blue	21R792
0.5-10µL	Light Gray/Light Blue	21R765
0.5-10µL	Light Gray/Dark Blue	21R793
2-20µL		21R794
5-50µL	Light Gray/Light Blue	21R766
5-50µL	Light Gray/Dark Blue	21R795
10-100µL	Light Gray/Light Blue	21R768
10-100µL	Light Gray/Dark Blue	21R796
20-200µL	Light Gray/Light Blue	21R769
20-200µL	Light Gray/Dark Blue	21R797
50-200µL	Light Gray/Light Blue	21R770
50-200µL	Light Gray/Dark Blue	21R798
100-1000µL	Light Gray/Light Blue	21R771
100-1000µL	Light Gray/Dark Blue	21R799
200-1000µL		21R801
1000-5000µL		21R802
1000-5000µL	Light Gray/Light Blue	21R773
Dlab Polycarbonate		
0.1-2.5µL	Light Gray/Purple	21R821
0.5-10µL		21R822
2-20µL		21R823
5-50µL		21R824
10-100µL		21R825
20-200µL		21R826
50-200µL		21R827
100-1000µL		21R828
1000-5000µL		21R830
Eppendorf Research Plus		
0.1 to 2.5µL	Dark Gray	44C771
0.5 to 10µL	Gray	44C772
2 to 20µL	Yellow	44C773
10 to 100µL		44C774
20 to 200µL		44C775
100 to 1000µL	Blue	44C776
500 to 5000µL	Violet	44C777
1000 to 10,000µL	Turquoise	44C778
Nichiryo		
100–1000µL	White/Yellow	8DZM8
1000–5000µL		9GFC8
1000–10,000µL		9PYW0
Wheaton Acura		
0.1 to 2uL	Gray	23NC62
0.5 to 10uL		23NC64
1 to 10uL		23NC66
2 to 20uL		23NC69
5 to 50uL	Blue	23Y301
10 to 100uL	Gray	23NC75
20 to 200uL	Blue	23Y302
100 to 1000uL		23Y303

Multichannel Pipetters

Adjustable volume multichannel pipetters are ideal for filling microplates or multiple tubes simultaneously. Deliver uniform volume across all channels.

44C781

23Y304

21R846

Range	Color	Item No.
8-Channel		
Dlab		
0.5-10µL	Light Gray/Light Blue	21R786
0.5-10µL	Light Gray/Dark Blue	21R815
5-50µL	Light Gray/Light Blue	21R787
5-50µL	Light Gray/Dark Blue	21R816
50-300µL	Light Gray/Light Blue	21R788
50-300µL	Light Gray/Dark Blue	21R817
Dlab Polycarbonate		
0.5-10µL	Light Gray/Purple	21R843
5-50µL		21R844
50-300µL		21R845
Eppendorf Research Plus		
0.5 to 10µL	Gray	44C781
30 to 300µL	Orange	44C785
10 to 100µL	Yellow	44C783
Wheaton Acura		
0.5 to 10µL	White	23Y304
12-Channel		
Dlab		
0.5-10µL	Light Gray/Light Blue	21R789
0.5-10µL	Light Gray/Dark Blue	21R818
5-50µL	Light Gray/Light Blue	21R790
5-50µL	Light Gray/Dark Blue	21R819
50-300µL	Light Gray/Light Blue	21R791
50-300µL	Light Gray/Dark Blue	21R820
Dlab Polycarbonate		
0.5-10µL	Light Gray/Purple	21R846
5-50µL		21R847
50-300µL		21R848
Eppendorf Research Plus		
0.5 to 10µL	Gray	44C782
10 to 100µL	Yellow	44C784
30 to 300µL	Orange	44C786

Electronic Pipetters

Offer 6 working modes: Forward, Reverse, Stepper, Dilution, Tactile, and Mixing. These ergonomic units are designed with Right and Left display reading, variable working speed, cycle counter, and an easy-to-use tip ejector. Micropipetters have a reduced shaft length and conical end for easy access to microtubes and microplates. Macropipetters feature an interchangeable nozzle protection filter and adapters for Pasteur pipettes. 360° rotation for best working position.

23NA73

23NA92

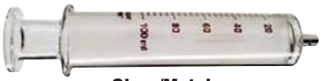
Graduation Range	Graduation Subdivisions	Mfr. Model	Item No.
Single Channel - Micropipetters			
0.1 to 2uL	0.01ul	W870902-A	23NA73
0.5 to 10uL	0.05ul	W870904-A	23NA74
0.5 to 10uL	0.05ul	W870906-A	23NA75 *
1 to 20uL	0.1ul	W870908-A	23NA76
2.5 to 50uL	0.25ul	W870910-A	23NA77
5 to 100uL	0.5ul	W870912-A	23NA78
10 to 200uL	1.0ul	W870914-A	23NA79
50 to 1000uL	5.0ul	W870916-A	23NA80
Single Channel - Macropipetters			
0.1 to 2mL	0.01mL	W870918-A	23NA81
0.25 to 5mL	0.05mL	W870920-A	23NA82
0.5 to 10mL	0.05mL	W870922-A	23NA83
8-Channel			
0.5 to 10uL	0.05ul	W870924-A	23NA95
2.5 to 50uL	0.25ul	W870926-A	23NA92
10 to 200uL	1.0ul	W870928-A	23NA93
20 to 350uL	5.0ul	W870930-A	23NA94
12-Channel			
0.5 to 10uL	0.05ul	W870932-A	23NA99
2.5 to 50uL	0.25ul	W870934-A	23NA96
10 to 200uL	1.0ul	W870936-A	23NA97
20 to 350uL	5.0ul	W870938-A	23NA98

** Uses 200uL tip.*

Plastic, Luer Lock
19G342

Plastic, Luer Slip
19G334

3-Part, Luer Lock
19G395



Glass/Metal Luer Lock
19G365

Laboratory Syringes

Air-Tite Products Co., Inc.

All-Plastic Syringes—Contain no rubber or silicone oil that could contaminate chromatography or sensitive laboratory samples. Certified for use with most common organic and inorganic chromatography solvents. Positive safety stop helps prevent spills. More chemically and biologically inert than 3-part syringes. Polypropylene barrel and HDPE plunger.
- Individual sterile strip packs

3-Part Disposable Syringes—Positive safety stop helps prevent spills. Polypropylene barrel and lubricated synthetic rubber gasket provide smooth plunger movement. Free from latex, BPA, PVC, and phthalates.
- Individual sterile strip packs

Reusable Glass Syringes—High-purity borosilicate glass syringes are reusable for laboratory and research applications. Barrels and pistons are interchangeable.
- Individually boxed

Cap.	Sub-Brand	Item No.	Pkg. Qty.
All-Plastic Syringes			
Catheter			
50 mL	Henke-Ject	**19G341**	30
Luer Lock			
2 mL	Norm-Ject	**19G344**	100
5 mL	Norm-Ject	**19G346**	100
10 mL	Norm-Ject	**19G342**	100
20 mL	Norm-Ject	**19G343**	100
30 mL	Henke-Ject	**19G345**	50
50 mL	Henke-Ject	**19G347**	30
Luer Slip			
1 mL	Norm-Ject	**19G334**	100
2 mL	Norm-Ject	**19G337**	100
5 mL	Norm-Ject	**19G339**	100
10 mL	Norm-Ject	**19G335**	100
20 mL	Norm-Ject	**19G336**	100
30 mL	Henke-Ject	**19G338**	50
50 mL	Henke-Ject	**19G340**	30

Cap.	Sub-Brand	Item No.	Pkg. Qty.
3-Part Disposable Syringes			
Luer Lock			
3 mL	Henke-Ject	**19G390**	100
5 mL	Henke-Ject	**19G391**	100
10 mL	Henke-Ject	**19G392**	100
20 mL	Henke-Ject	**19G393**	100
50 mL	Henke-Ject	**19G395**	50
Luer Slip			
1 mL	Henke-Ject	**19G384**	100
5 mL	Henke-Ject	**19G386**	100
10 mL	Henke-Ject	**19G387**	100
20 mL	Henke-Ject	**19G388**	100
Reusable Glass Syringes			
Glass Luer Lock			
5 mL	Fortuna	**19G351**	1
10 mL	Fortuna	**19G352**	1
Metal Luer Lock			
5 mL	Fortuna	**19G360**	1
10 mL	Fortuna	**19G361**	1
20 mL	Fortuna	**19G362**	1
30 mL	Fortuna	**19G363**	1
50 mL	Fortuna	**19G364**	1
100 mL	Fortuna	**19G365**	1

49AM37

9MHC8

49AR68

9EZ20

J.G. Finneran Associates, Inc. — Supplier Diversity — WHEATON®

Chromatography Autosampler Vials

Made of Type 1 borosilicate glass, which offers resistance to chemical leaching and heat shock. Amber vials are suitable for light-sensitive applications. 49AR35, 49AR36, and 49AR68 are convenience packs, packaged in a clear tray that fits into a bench drawer for easy access. The packaging helps keep products visible and particle-free. Bulk vials are designed for use in most autosamplers. 9MHC8 and 8XAV4 can also use a plastic snap-cap closure that does not need crimping or decapping tools.

Crimper and Decapper—Handheld Crimper 9EZ20 features an adjustable stop to determine seal tightness. Handheld Decapper 9A893 has a precision-tooled decrimping jaw.

Cap.	Includes Closure	Dia.	H	Special Features	Brand	CLEAR Item No.	AMBER Item No.	Pkg. Qty.
Precleaned Sterile Vials								
40 mL	Yes	27 mm	95 mm	VOA (EPA), Assembled with Solid Top White Polypropylene Closures, PTFE Lined	Finneran	**49AR55**	—	72
Vials								
2 mL	Yes	12 mm	32 mm	With PTFE Septa, Screw Thread, 8-425mm	Finneran	**49AR35**	—	100
2 mL	Yes	12 mm	32 mm	With PTFE Red Rubber Septa, Screw Thread, 8-425mm	Finneran	**49AR36**	—	100
100 ul	No	12 mm	32 mm	With Interlocked Insert, Screw Thread, 8-425mm	Finneran	—	**49AM37**	100
Bulk Vials								
1.8 mL	No	12 mm	32 mm	With Snap Ring—Accepts Snap Cap or 11mm Aluminum Seal	Wheaton	**9MHC8**	—	1000
1.8 mL	No	12 mm	32 mm		Wheaton	—	**8XAV4**	1000
Bulk Shell Vials								
1 mL	Yes	8 mm	40 mm	With Conical Snap Plugs	Finneran	**49AR68**	—	1000

Description	Brand	Item No.	Pkg. Qty.
Vial Seals			
PTFE/ Red Rubber Liner Vial Seals	Wheaton	**4YMP9**	1000
Handheld Crimper			
Crimper, Hand Operated with Adjustable Stop, Cushioned Grip, 11 mm	Wheaton	**9EZ20**	1
Decapper			
Decapper, Hand Operated, 11 mm	Wheaton	**9A893**	1

49AN27

49AP67

49AL96

49AL74

Chromatography Vials and Syringes

J.G. Finneran Associates, Inc. — Supplier Diversity — HAMILTON — Supplier Diversity

Sample Vials—Type 1 borosilicate glass construction for resistance to chemical leaching and heat shock.

Vials—Feature an innovative StepVial design that precisely centers a limited volume insert in the vial neck to help ensure dependable use with auto samplers. Sturdy neck design allows use with Poly Crimp seals and helps minimize neck breakage while uncapping.

Syringes—Gas-tight syringes dispense liquids and gases. Each feature a precision-machined PTFE plunger tip that creates a leak-free seal, useful with heterogeneous samples to help reduce the chance of a deposit that could cause the plunger to freeze.

Microliter syringes are designed for liquids and feature a stainless steel plunger that fits the glass barrel with a tolerance smaller than 100 millionths of an inch to help extend syringe life. Fluid path is borosilicate glass and stainless steel.

Cap.	Color	Brand	Item No.	Pkg. Qty.
Sample Vials				
14.78 mL	Clear	Finneran	**49AN27**	100
Vials				
4 mL	Clear	Finneran	**49AP67**	1000
Syringes				
Gastight				
1 mL	Clear	Hamilton	**49AL96**	1
100 ul	Clear	Hamilton	**49AL81**	1
500 ul	Clear	Hamilton	**49AL88**	1
Microliter				
10 ul	Clear	Hamilton	**49AL67**	1
100 ul	Clear	Hamilton	**49AL74**	1

4WK85

2VHW1

Laboratory Wipes

For cleaning delicate surfaces and equipment in laboratories, research facilities, hospitals, and manufacturing settings.

GEORGIA-PACIFIC ACCUWIPE

Recycled Fiber—Made with 100% recycled fiber. May contain incidental, less than 0.5% nonrecycled fibers.

KIMBERLY-CLARK PROFESSIONAL

KIMTECH SCIENCE KIMWIPES Delicate Task—Light-duty wipes easily pick up liquids and dust. Antistatic dispensing helps reduce lint and electrostatic discharge.

KIMTECH SCIENCE Precision—Soft, absorbent wipes for general low-lint cleaning. Antistatic dispensing reduces lint. Coated packaging helps protect wipes from spills.

BERKSHIRE

General Cleaning—Nonwoven polyester/cellulose blend designed for spill control and wet wiping. Durx wipes are white; Bluesorb 750 are blue.

Presaturated—For use in wet cleaning and disinfecting of critical surfaces with no residue, where control of flammable solvents is required.

Polyester Knit—Excellent nonshedding wipes for applications where high concentrations of liquid are in use with rough surfaces. Ideal for aggressive cleaning and disinfecting.

Gentle Task—Extremely soft and gentle on surfaces. Very low lint. Contains no binders or additives. EcoClean 60 wipes are biodegradable.

Sheet Size	Wipes per Container	Brand	Mfr. Model	Item No.	No. of Packs
Georgia-Pacific AccuWipe					
Recycled Fiber					
4 ½ in x 8 in	280	Georgia-Pacific	29712	**4WK85**	60
Kimberly-Clark Professional					
Delicate Task, 1-Ply Tissue					
4 ½ in x 8 ½ in	280	Kimtech	34155	**2VHW1**	60
11 ¾ in x 11 ¾ in	196	Kimtech	34133	**2LVC2**	15
14 ¾ in x 16 ½ in	140	Kimtech	34256	**2VHW2**	15
Delicate Task, 2-Ply Tissue					
11 ¾ in x 11 ¾ in	119	Kimtech	34705	**2LVC4**	15
14 ¾ in x 16 ½ in	90	Kimtech	34721	**2VHW3**	15
Delicate Task, 3-Ply Tissue					
11 ¾ in x 11 ¾ in	119	Kimtech	34743	**2LVC6**	15
Precision, 1-Ply Tissue					
4 ½ in x 8 ½ in	280	Kimtech	05511	**2VHV7**	60
11 ¾ in x 11 ¾ in	196	Kimtech	75512	**2LVC8**	15
14 ¾ in x 16 ¾ in	140	Kimtech	05514	**2VHV8**	15
Precision, 2-Ply Tissue					
14 ¾ in x 16 ¾ in	90	Kimtech	05517	**2VHV9**	15
Berkshire					
General Cleaning - Durx					
9 in x 9 in	300	Berkshire	DR570.0909.10	**39T060**	1
12 in x 12 in	150	Berkshire	DR670.1212.20	**3LDL1**	1
18 in x 18 in	150	Berkshire	DR670.1818.10	**39T062**	1
General Cleaning - Bluesorb 750					
4 in x 4 in	300	Berkshire	BS750.0404.40	**3LDL2**	1
9 in x 9 in	300	Berkshire	BS750.0909.20	**3LDL3**	1
12 in x 12 in	150	Berkshire	BS750.1212.20	**3LDL4**	1
Presaturated - SatPax 1000C					
9 in x 6 in		Berkshire	SPXC1000.001.12	**46D097**	1
Polyester Knit - Choice					
9 in x 9 in	150	Berkshire	CH709.14	**39T077**	1
9 in x 9 in	150	Berkshire	CH909.10	**39T079**	1
Polyester Knit - MicroSeal VP					
9 in x 9 in	150	Berkshire	MSVP.0909.8	**3LDK7**	1
12 in x 12 in	75	Berkshire	MSVP.1212.14	**3LDK8**	1
Polyester Knit - Polx 1200					
9 in x 9 in	150	Berkshire	P1200.0909.8	**3LDN3**	1
12 in x 12 in	75	Berkshire	P1200.1212.14	**3LDN4**	1
Polyester Knit - Super Polx 1200					
9 in x 9 in	150	Berkshire	S1200.0909.8	**3LDN2**	1
Gentle Task - EcoClean 60					
9 in x 9 in	300	Berkshire	ECW60.0909.20	**6ENZ0**	1
12 in x 12 in	150	Berkshire	ECW60.1212.20	**6ENZ1**	1
Gentle Task - LabX 170					
9 in x 9 in	500	Berkshire	LB170.0909.40	**39T067**	1

Vacuum Manifolds

Outlets are widely spaced for easy funnel positioning. Aluminum clamps are generously sized for one-handed operation. 2-way valve stopcocks provide a leakproof seal. Autoclavable manifolds use materials that stand up to repeated autoclave cycles.

46Z315

Material	Cap.	Size	Item No.
Vacuum Manifold			
Glass/SS	1-Place	9.8 x 7.8 x 15.2 in	**46Z315**
Vacuum Manifolds, Autoclavable			
SS/PTFE/PSF	3-Place	22.8 x 9.8 x 9.8 in	**46Z322**
SS/PTFE/PSF	6-Place	38.5 x 9.8 x 9.8 in	**46Z323**

3NPT6

6ENY7

6ENY6

Cleanroom Swabs

- Pkg. of 100

Swabs are made for a variety of cleaning tasks in critical applications and cleanroom environments. 100 ppi reticulated foam. Laundered to be clean and pure before use.

Sock-Tip Foam—Solvent-resistant polypropylene handles sandwiched between two layers of the polyurethane foam head material.

Closed-Foam—Generate low particles and fibers; free of silicone, amides, and DOP (dioctyl phthalate).

Open-Cell Foam—Polyurethane foam sock heads over a rigid core.

Polyester Knit—Continuous-filament polyester knit heads for low particles, fibers, ions, and extractables. Highly abrasion-resistant and autoclavable.

Polyester Nonwoven—Flexible tips; made of hydroentangled polyester with low particle generation.

Size	Style	Brand	Item No.
Sock Tip Foam Swabs			
3⁄16 in	3⁄16 in Tip, 3 in Handle	Berkshire	**3NPT5**
½ in	½ in Tip, 5 in Handle	Berkshire	**3NPT6**
Closed Foam Swabs			
125 mm	Rigid Tip	Berkshire	**6ENY7**
Open Cell Foam Swabs			
70 mm	Flexible Tip	Berkshire	**6ENX8**
70 mm	Rigid Tip	Berkshire	**6ENX9**
70 mm	Pointed Tip	Berkshire	**6ENY0**
70 mm	Rigid Tip	LSS	**22CW70**
70 mm	Flexible Tip	LSS	**22CW71**
70 mm	Rigid Tip	LSS	**22CW72**
70 mm	Pointed Tip	LSS	**22CW73**
75 mm	Pointed Tip	LSS	**22CW82**
90 mm	Flexible Tip	LSS	**22CW84**
125 mm	Flexible Tip, A	LSS	**22CW69**
125 mm	Rigid Tip	LSS	**22CW80**
162 mm	Flexible Tip	Berkshire	**6ENY4**
162 mm	Flexible Tip	LSS	**22CW77**
Polyester Knit Swabs			
70 mm	Flexible Tip	Berkshire	**6ENY1**
70 mm	Rigid Tip	Berkshire	**6ENY2**
70 mm	Flexible Tip	LSS	**22CW74**
70 mm	Rigid Tip	LSS	**22CW75**
75 mm	Pointed Tip	LSS	**22CW83**
75 mm, Head Length 22.7 mm	Rigid Tip, A	LSS	**22CW68**
90 mm	Flexible Tip	LSS	**22CW85**
125 mm	Rigid Tip	Berkshire	**6ENY8**
125 mm	Rigid Tip, A	LSS	**22CW81**
162 mm	Flexible Tip	Berkshire	**6ENY6**
162 mm	Flexible Tip	LSS	**22CW79**
Polyester Nonwoven Swabs			
70 mm	Flexible Tip	Berkshire	**6ENY3**
70 mm	Flexible Tip	LSS	**22CW76**
162 mm	Flexible Tip	Berkshire	**6ENY5**
162 mm	Flexible Tip	LSS	**22CW78**

Bottle Top Filter Units

11L838

11L833

Fast, clean polyethersulfone (PES) membranes lower the chance of removing critical protein components from media.

LSS Bottle Top Filters—Sterilized and packaged in individual bags. Fit on solution bottles in Filter Units, or other standard threaded solution storage bottles.

Filter Units—Include a solution bottle and a Bottle-Top Filter.

Cap.	Size	Dia.	Item No.	Pkg. Qty.
Bottle Top Filters				
Upper: 150ml	Pore: 0.22 um	50 mm	**11L838**	24
	Pore: 0.45 um	50 mm	**11L834**	24
Upper: 250ml	Pore: 0.22 um	50 mm	**11L839**	24
	Pore: 0.45 um	50 mm	**11L835**	24
Upper: 500ml	Pore: 0.22 um	75 mm	**11L840**	24
	Pore: 0.45 um	75 mm	**11L836**	24
Upper: 1000ml	Pore: 0.22 um	90 mm	**11L841**	24
	Pore: 0.45 um	90 mm	**11L837**	24
Filter Units				
Upper: 150ml Receiver: 150ml	Pore: 0.22 um	50 mm	**11L830**	12
	Pore: 0.45 um	50 mm	**11L826**	12
Upper: 250ml Receiver: 250ml	Pore: 0.22 um	50 mm	**11L831**	12
	Pore: 0.45 um	50 mm	**11L827**	12
Upper: 500ml Receiver: 500ml	Pore: 0.2 um	75 mm	**11L832**	12
	Pore: 0.45 um	75 mm	**11L828**	12
Upper: 1000ml Receiver: 1000ml	Pore: 0.22 um	90 mm	**11L833**	12
	Pore: 0.45 um	90 mm	**11L829**	12

Filters and Filter Paper Grades

Grade/Size	Characteristics	Application
Filters		
A	Fine porosity, fast flow rate	Radioimmunoassay and gravimetric determination of airborne particulates.
A-E	Fine porosity, fast flow rate, 99.98% DOP effic.	Primarily used in suspended solids and air monitoring.
C	Fine porosity, fast flow rate	RIA procedures and harvesting lymphocytes.
E	Fine porosity, fast flow rate	Suspended particle analysis in water, cell harvesting, prefiltration, and air monitoring.
F	Fine porosity, medium flow rate	Filter diluted aqueous solutions pre laser spectroscopy; TCLP analysis; & collect fine precipitated proteins including immunoglobulin.
TSS	High flow rate & cap., excellent wet strength	High-efficiency medium for testing dissolved and suspended solids in water and wastewater.
VSS	High loading capacity	Monitoring air pollution & high-temp. flue gas, filtering high-temp. solvents, determining fixed & volatile solids in high-heat applic.
Filter Paper		
CFP2, 8µm	Medium to slow flow rate	General filtration and absorbent conveyance, in plant growth trials, and in monitoring air and gases for contaminants.
CFP40, 8µm-10µm	Medium retention and flow rates	General liquid and gas procedures and liquid food tests.

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Filters and Filter Paper

14A840

Quantitative Filter Paper—Designed for gravimetric analysis and the preparation of samples for instrumental analysis.

Qualitative Filter Paper—Made from high quality cotton liners to ensure reproducibility and uniformity.

Grade	Material	Pore Size	Dia.	Brand	Item No.	Pkg. Qty.
Filters						
Membrane Filters						
—	Cellulose Nitrate	5 um	47 mm	Cytiva Whatman	32HH74	100
—	Mixed Cellulose Ester (MCE)	0.45 um	47 mm	Cytiva Whatman	32HK60	100
—	Mixed Cellulose Ester (MCE)	0.45 um	47 mm	Cytiva Whatman	32HJ22	200
—	Mixed Cellulose Esters	0.45 um	4.7 cm	LSS	14A840	1000
—	Mixed Cellulose Esters	0.45 um	4.7 cm	LSS	14A842	100
—	Mixed Cellulose Esters	0.45 um	4.7 cm	LSS	14A843	200
Glass Microfiber Filters						
A	Binderless Borosilicate Glass Microfiber	1.6 um	9 cm	LSS	14A851	100
C	Binderless Borosilicate Glass Microfiber	1.2 um	9 cm	LSS	12K889	100
E	Binderless Borosilicate Glass Microfiber	1.5 um	5.5 cm	LSS	12K951	100
TSS	Binderless Borosilicate Glass Microfiber	1.5 um	4.7 cm	LSS	12K992	100
TSS	Binderless Borosilicate Glass Microfiber	1.5 um	9 cm	LSS	12K995	100
VSS	Binderless Borosilicate Glass Microfiber	1.5 um	4.7 cm	LSS	12K999	100
VSS	Binderless Borosilicate Glass Microfiber	1.5 um	9 cm	LSS	12L004	100
VSS	Binderless Borosilicate Glass Microfiber	1.5 um	11 cm	LSS	12K996	100
934-AH	Borosilicate Glass	1.5 um	21 mm	Cytiva Whatman	32HJ07	100
934-AH	Borosilicate Glass	—	32 mm	Cytiva Whatman	32HL05	100
934-AH	Borosilicate Glass	—	42.5 mm	Cytiva Whatman	32HL04	100
934-AH	Borosilicate Glass	—	47 mm	Cytiva Whatman	32HH59	100
934-AH	Borosilicate Glass	—	55 mm	Cytiva Whatman	32HH85	100
934-AH	Borosilicate Glass	—	90 mm	Cytiva Whatman	32HH58	100
GF/A	Borosilicate Glass	—	47 mm	Cytiva Whatman	32HJ90	100
Filter Paper						
Quantitative Filter Paper						
40 - Ashless	High Quality Cotton Linters	8.0 um	5.5 cm	Cytiva Whatman	32HK15	100
40 - Ashless	High Quality Cotton Linters	8.0 um	11 cm	Cytiva Whatman	32HH91	100
41 - Ashless	High Quality Cotton Linters	20 to 25 um	4.7 cm	Cytiva Whatman	32HK12	100
41 - Ashless	High Quality Cotton Linters	20 to 25 um	12.5 cm	Cytiva Whatman	32HH61	100
42 - Ashless	High Quality Cotton Linters	2.5 um	9 cm	Cytiva Whatman	32HL14	100
50	High Quality Cotton Linters	2.7 um	9 cm	Cytiva Whatman	32HL11	100
CFP40	Cellulose	8.0 um	9 cm	LSS	12K911	100
CFP40	Cellulose	8.0 um	11 cm	LSS	12K912	100
CFP40	Cellulose	8.0 um	12.5 cm	LSS	12K913	100
CFP40	Cellulose	8.0 um	15 cm	LSS	12K914	100
CFP42	Cellulose	2.5 um	11 cm	LSS	12K926	100
CFP42	Cellulose	2.5 um	18.5 cm	LSS	12K929	100
CFP541	Cellulose	25.0 um	9 cm	LSS	12K937	100
CFP541	Cellulose	25.0 um	18.5 cm	LSS	12K939	100
CFP541	Cellulose	25.0 um	12.5 cm	LSS	12K938	100
General Qualitative Filter Paper						
230	Creped Paper	25 to 30 um	25 cm	Cytiva Whatman	32HL42	50
Qualitative Filter Paper						
CFP1	Cellulose	11.0 um	12.5 cm	Cytiva Whatman	32HH68	100
CFP1	Cellulose	11.0 um	15 cm	Cytiva Whatman	32HH67	100
CFP1	Cellulose	11.0 um	18.5 cm	Cytiva Whatman	32HK50	100
CFP1	Cellulose	11.0 um	4.25 cm	LSS	12K890	100
CFP1	Cellulose	11.0 um	5.5 cm	LSS	12K891	100
CFP1	Cellulose	11.0 um	9 cm	LSS	12K893	100
CFP1	Cellulose	11.0 um	11 cm	LSS	12K894	100
CFP1	Cellulose	11.0 um	12.5 cm	LSS	12K895	100
CFP1	Cellulose	11.0 um	15 cm	LSS	12K896	100
CFP1	Cellulose	11.0 um	18.5 cm	LSS	12K897	100
CFP1	Cellulose	11.0 um	24 cm	LSS	12K898	100
CFP2	Cellulose	8.0 um	4.25 cm	Cytiva Whatman	32HK36	100
CFP2	Cellulose	8.0 um	9 cm	LSS	12K902	100
CFP2	Cellulose	8.0 um	11 cm	Cytiva Whatman	32HK33	100
CFP2	Cellulose	8.0 um	15 cm	Cytiva Whatman	32HK32	100
CFP3	Cellulose	6.0 um	15 cm	LSS	12K909	100
CFP4	Cellulose	20 to 25 um	9 cm	Cytiva Whatman	32HJ11	100
CFP4	Cellulose	20 to 25 um	11 cm	Cytiva Whatman	32HH66	100
CFP4	Cellulose	20 to 25 um	12.5 cm	Cytiva Whatman	32HH65	100
CFP4	Cellulose	25.0 um	11 cm	LSS	12K917	100
CFP4	Cellulose	25.0 um	12.5 cm	LSS	12K922	100
CFP4	Cellulose	25.0 um	15 cm	LSS	12K923	100
CFP4	Cellulose	25.0 um	18.5 cm	LSS	12K924	100
CFP41	Cellulose	20.0 um	11 cm	LSS	12K918	100
CFP41	Cellulose	20.0 um	12.5 cm	LSS	12K919	100
CFP50	Cellulose	2.7 um	9 cm	LSS	36L290	100

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Syringe Filters

Molded-in polypropylene housings for a reliable seal without adhesives. Supplied sterile in individual blister packs.

Anotop—Made of inorganic membranes; low protein binding. For organic solvents and aqueous materials.

Glass Fiber—Handles viscous solutions or turbid liquids.

Nylon—Universal filter for analytical procedures such as chemical and beverage filtration.

GD/X—Designed with a prefiltration stack and process 3 to 7 times more sample volume.

PES—Polyethersulfone material has a low affinity for proteins and extractables; faster flow rate than PVDF.

PVDF—Hydrophilic membrane for filtering nonagressive aqueous and mild organic solutions.

PTFE—Hydrophobic membrane has great temperature resistance.

MCE—For aqueous solutions, oil particulates, and bacteria. Effectively binds trace proteins.

Puradisc—Special tube tip allows the sample to be accurately dispensed into a microvial.

Filter Material	Pore Size	Membrane Dia.	Brand	Item No.	Pkg. Qty.
Anotop Female Luer-Lok Inlet, Male Luer Outlet					
Anopore Membrane	0.02 um	10 mm	Cytiva Whatman	32HJ33	50
Female Luer Lock Inlet, Male Luer-Lok Outlet					
Glass Fiber, Nylon, Polypropylene	0.45 um	—	LSS	36L285	100
GD/X Female Luer-Lok Inlet, Male Luer Outlet					
Glass Microfiber	0.45 um	25 mm	Cytiva Whatman	32HJ01	150
Polypropylene	0.45 um	25 mm	Cytiva Whatman	32HJ28	150
GD/XP Female Luer-Lok Inlet, Male Luer Outlet					
Nylon	0.45 um	25 mm	Cytiva Whatman	32HJ23	150
Luer-Lok Inlet, Luer-Slip (No- Barb) Outlet					
Glass Fiber	0.7 um	25 mm	LSS	12K971	100
Glass Fiber	1 um	25 mm	LSS	12K972	100
Hydrophilic PES	0.22 um	25 mm	LSS	12K969	100
Hydrophilic PES	0.45 um	25 mm	LSS	12K970	100
Hydrophilic PVDF	0.22 um	13 mm	LSS	12K966	100
Hydrophilic PVDF	0.45 um	13 mm	LSS	12K967	100
Hydrophobic PTFE	0.22 um	13 mm	LSS	12K962	100
Hydrophobic PTFE	0.22 um	25 mm	LSS	12K964	100
Hydrophobic PTFE	0.45 um	13 mm	LSS	12K963	100
Hydrophobic PTFE	0.45 um	25 mm	LSS	12K965	100
Nylon	0.22 um	13 mm	LSS	12K959	100
Nylon	0.22 um	25 mm	LSS	12K960	100
Nylon	0.45 um	25 mm	LSS	12K961	100
Male Luer-Lok Inlet, Tapered 4 mm OD Outlet					
Hydrophilic PVDF	0.45 um	30 mm	LSS	11L851	30
MCE (Mixed Cellulose Ester)	0.22 um	13 mm	LSS	11L856	75
MCE (Mixed Cellulose Ester)	0.22 um	30 mm	LSS	11L857	30
MCE (Mixed Cellulose Ester)	0.45 um	13 mm	LSS	11L858	75
MCE (Mixed Cellulose Ester)	0.45 um	30 mm	LSS	11L859	30
Nylon	0.45 um	13 mm	LSS	11L860	75
Nylon	0.45 um	30 mm	LSS	11L861	30
PES	0.22 um	13 mm	LSS	11L852	75
PES	0.22 um	30 mm	LSS	11L853	30
PES	0.45 um	13 mm	LSS	11L854	75
PES	0.45 um	30 mm	LSS	11L855	30
PTFE	0.22 um	13 mm	LSS	11L862	75
PTFE	0.22 um	30 mm	LSS	11L863	30
PTFE	0.45 um	13 mm	LSS	11L864	75
PTFE	0.45 um	30 mm	LSS	11L865	30
PVDF	0.1 um	13 mm	LSS	11L846	75
PVDF	0.1 um	30 mm	LSS	11L847	30
PVDF	0.22 um	13 mm	LSS	11L848	75
PVDF	0.22 um	30 mm	LSS	11L849	30
PVDF	0.45 um	13 mm	LSS	11L850	75
Puradisc Female Luer-Lok Inlet, Male Luer Outlet					
Nylon	1 um	25 mm	Cytiva Whatman	32HK74	50
PVDF	0.45 um	13 mm	Cytiva Whatman	32HK72	2000

12K961 (Shown in Package)

Individual Filter 11L859

Individual Filter 11L846

Dishes

11L825

Designed for optimum culture growth and media shelf life. Dishes made from polystyrene material are single-use, preventing risk of contamination.

Petri Dishes—Flat design provides uniform agar thickness, promoting culture growth.

Tissue Culture Dishes—Treated dishes are supplied sterile (gamma irradiated) and are vacuum-gas plasma treated for consistent hydrophilic cell attachment surface.

Description	Material	Includes	Dim.	Volume Cap.	Brand	Item No.	Pkg. Qty.
Petri Dishes							
Petri Dish, Nontreated	Polystyrene	Gripping Area	35 mm x 10 mm	5mL	CELLTREAT	**38C784**	960
	Polystyrene	Gripping Ring	60 mm x 15 mm	7mL to 8mL	CELLTREAT	**38C785**	500
	Polystyrene	Gripping Ring	100 mm x 15 mm	15mL to 16mL	CELLTREAT	**38C786**	500
Petri Dish	Polystyrene	Lid	57 mm x 16 mm	41mL	LSS	**5PTK0**	12
	Polystyrene	Lid	86 mm x 16 mm	92mL	LSS	**5PTK2**	12
	Polystyrene	Lid	101 mm x 18 mm	160mL	LSS	**5PTK3**	12
	Polystyrene	Lid	116 mm x 21 mm	212mL	LSS	**5PTK4**	12
	Glass	Lid	75 mm x 15 mm	66mL	LSS	**5PTF5**	12
	Glass	Lid	100 mm x 20 mm	157mL	LSS	**5PTF7**	10
Tissue Culture Dishes							
Tissue Culture Treated Dish	Polystyrene	Gripping Ring, Lid	60 mm x 15 mm	7mL to 8mL	LSS	**11L821**	500
	Polystyrene	Gripping Ring, Lid	70 mm x 15 mm	7mL to 8mL	CELLTREAT	**38C783**	500
	Polystyrene	Gripping Ring, Lid	100 mm x 15 mm	15mL to 16mL	LSS	**11L823**	500
	Polystyrene	Gripping Ring, Lid	100 mm x 20 mm	15mL to 16mL	LSS	**11L824**	300
	Polystyrene	Lid	35 mm x 10 mm	5mL	LSS	**11L822**	500
	Polystyrene	Lid	150 mm x 15 mm	25mL to 28mL	LSS	**11L825**	60
	Polystyrene	Lid	150 mm x 20 mm	25mL to 28mL	CELLTREAT	**38C782**	100

Tissue Culture Flasks

- Polystyrene

Unbreakable, treated flasks feature uniform hydrophilic surface for consistent cell attachment. Canted-neck design for easy access. CELLTREAT flasks are packaged sterile (gamma irradiated) in zip-closure bags.

38C789

Capacity	Brand	Item No.	Pkg. Qty.
Vented Cap			
25mL	LSS	**11L811**	50
50mL	LSS	**11L812**	50
250mL	LSS	**11L813**	25
600mL	LSS	**11L814**	20
Plug Seal Cap			
25mL	CELLTREAT	**38C789**	200
50mL	CELLTREAT	**38C790**	200
250mL	CELLTREAT	**38C791**	100
12.5 L	CELLTREAT	**38C792**	18

Prepared Culture Media

General Laboratory Products

Used for the cultivation of microorganisms. Media are made from high-quality ingredients according to USP guidelines.

Description	Size	Item No.	Pkg. Qty.
0.85 per. Saline	5mL	**45H385**	100
	9mL	**45H386**	100
Baird Parker Agar	Monoplate	**45H469**	100
Blood Agar, Anaerobic	Monoplate	**45H443**	100
Butterfield's Buffer	90mL	**45H356**	50
	99mL	**45H357**	50
Deionized Water	1000mL	**45H441**	12
Diluting/Rinsing Solutions	100mL	**45H440**	12
MacConkey Agar	Monoplate	**45H459**	100
MacConkey Broth	100mL	**45H351**	12
Nutrient Agar,Slants	Slants	**45H352**	100
Phosphate Buffer	90mL	**45H362**	24
Potato Dextrose Agar	Monoplate	**45H466**	100
Standard Methods Plate Count Agar	Monoplate	**45H463**	100
Tryptic Soy Agar	250mL	**45H406**	9
Tryptic Soy Agar w/5% Sheep Blood	Monoplate	**45H456**	100
Tryptic Soy Broth	90mL	**45H419**	12
	100mL	**45H420**	12
	500mL	**45H424**	12
	1000mL	**45H426**	6

Tissue Culture Plates

6 Well
11L793

96 Well
38C824

- Polystyrene
- Packaged sterile (gamma irradiated)

Alphanumeric markings clearly identify the multiple wells. Raised rims on wells nest into rings on the lid to reduce evaporation and limit risk of cross contamination.

Includes	No. of Wells	Working Volume per Well	Volume Cap.	Brand	Item No.	Pkg. Qty.
Tissue Culture Treated Multiple Well Plates						
Lid	6	1.90mL to 2.90mL	17mL	LSS	**11L793**	50
	12	0.76mL to 1.14mL	6.8mL	LSS	**11L794**	50
	24	0.38mL to 0.57mL	3.5mL	LSS	**11L795**	50
	48	0.19mL to 0.29mL	1.55mL	LSS	**11L796**	50
	96	0.075mL to 0.20mL	0.39mL	LSS	**11L797**	50
Well Tissue Culture Plate						
Lid	96	0.075mL to 0.20mL	0.39mL	CELLTREAT	**38C819**	100
Nontreated Plates						
Lid	6	1.90mL to 2.90mL	17mL	CELLTREAT	**38C820**	100
	12	0.76mL to 1.14mL	6.8mL	CELLTREAT	**38C821**	100
	24	0.38mL to 0.57mL	3.5mL	CELLTREAT	**38C822**	100
	48	0.19mL to 0.29mL	1.55mL	CELLTREAT	**38C823**	100
	96	0.075mL to 0.20mL	0.39mL	CELLTREAT	**38C827**	100
—	96	0.05mL to 0.30mL	0.39mL	CELLTREAT	**38C826**	100
Nontreated Plates, Round Bottom						
Lid	96	0.05mL to 0.30mL	0.32mL	CELLTREAT	**38C824**	100
—	96	0.05mL to 0.30mL	0.32mL	CELLTREAT	**38C825**	100

38C744

38C747

Cell Scrapers

Use for the manual harvesting of cells in tissue culture flasks. ABS handles with TPE blades. Scraper-style blade is positioned parallel to the handle for windshield wiper-like scraping. Lifter-style blade is perpendicular to the handle for use with a raking motion.

Type	Handle L	Color	Item No.	Pkg. Qty.
Scraper Blade	254 mm, 10 in	Green	**38C744**	100
Lifter Blade	254 mm, 10 in	Green	**38C745**	100
Scraper Blade	15.35 in, 390 mm	Green	**38C746**	100
Lifter Blade	15.35 in, 390 mm	Green	**38C747**	100

Raw Culture Media

- To see our full line of culture media, search for "microbiology media" on Grainger.com
- 500g container

High-quality dehydrated culture media meet the stringent requirements of a broad range of food safety, biotech, industrial, pharmaceutical, and life science applications.

Description	Item No.
Brain-Heart Infusion Agar	**39M181**
Brain-Heart Infusion Broth	**39M184**
Eosin Methylene Blue Agar, Levine	**39M163**
Hektoen Enteric Agar	**39M233**
Lactose Broth	**39M239**
Letheen Broth Base	**39M169**
MacConkey Agar	**39M160**
Mannitol Salt Agar	**39M245**
Nutrient Broth	**39M251**
Potato Dextrose Agar	**39M260**
Sabouraud Dextrose Agar	**39M263**
Tryptic Soy Agar	**39M154**
Tryptic Soy Agar with Lecithin and Tween 80	**39M293**
Tryptic Soy Broth	**39M296**

Scan. Order. Done.
Details on page A1.

DEWALT FLEXVOLT

20V/60V MAX

53JH17

4 Port
453U29

Batteries & Chargers

- Compatible with 20V MAX, 60V MAX, and 120V MAX tools
- LED state-of-charge display
- Lithium-ion batteries
- Rapid simultaneous charging

Dual-voltage battery provides extended run time for 20V tools and ample power for 60V tools. The battery capacity listed for FLEXVOLT batteries is the amp-hour (Ah) rating when operating at 20V. This capacity is reduced when operating at 60V.

Battery Capacity	Number of Batteries Included: 1 — Mfr. Model	1 — Item No.	2 — Mfr. Model	2 — Item No.
20V/60V FLEXVOLT Batteries				
6 Ah	DCB606	**48XP89**	DCB606-2	**48XP90**
9 Ah	DCB609	**53JH17**	DCB609-2	**53JH18**
9 Ah	DCB609G	**783RW3** *		—
12 Ah	DCB612	**490L13**		—
20V MAX* Batteries				
15 Ah	DCB615	**786VL8**		—

**Oil-resistant*

No. of Ports	Charging Port Voltage	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Battery Chargers				
1	(1) 20V/60V	8 Ah	DCB118	**49EM80**
4	(4) 12V/20V/60V	6 Ah	DCB104	**453U29**

DEWALT FLEXVOLT 60V MAX

Cordless Rotary Hammers

- SDS-max chuck
- Brushless motor
- 1 ¾" capacity in concrete
- 1 ¾" solid bit capacity

Hammers utilize SHOCKS Active Vibration Control technology. Ideal for horizontal serial drilling for #4–#8 rebar, dry coring, and chipping in any mid- to upper-wall and ceiling application. E-Clutch system provides enhanced control in bind-up situations.

60HH08

Blows per Minute	Core Bit Capacity	No Load RPM	Battery Incl.	Includes	Item No.
1,105 bpm to 2,210 bpm	1 ⅞ in	145 to 290 RPM	(2) 53JH17	Carrying Case, Side Handle	**783RW1**
1,350 bpm to 2,705 bpm	1 ¾ in	177 to 355	No	—	**453U21**
	1 ¾ in	177 to 355 RPM	(2) 53JH17	Carrying Case, Side Handle	**783RW2**
1,450 to 2,900 bpm	4 in	0 to 380	No	—	**60HH07**
	4 in	0 to 380	DCB609	Carrying Case, Side Handle	**60HH08**

48XR07

DEWALT FLEXVOLT 120V

Cordless Miter Saws

- Sliding cutting arm
- 50° left to 60° right miter angle range
- 49° left to 49° right bevel angle range
- 3800 RPM
- 4 ⅜" max. cut depth @ 0° bevel
- 9" max. cut width @ 45° miter
- 6.0Ah battery capacity

Blade Dia.	Arbor Size	Cordless Tool Kit Contents	Item No.
12 in	⅝ in	(1) Bare Tool, (1) 120V AC Adapter	**48ZU44**
	1 in	(1) Bare Tool, (1) Charger, (2) Batteries	**48XR07**

DEWALT

Power Stations & Corded Power Supply

Power Station converts (4) 20V batteries into an 1800W power station for convenient, portable power in remote locations. Features an integrated temperature-controlled cooling fan and heavy-duty roll cage. **USB Power Source** connects to a 12V or 20V battery and provides an interface to charge USB devices. **Corded Power Supply** converts a 120V MAX tool into a corded tool for unlimited running time.

Powerstation
48XP92

USB Power Supply
24WY40

Description	No. of Ports	Mfr. Model	Item No.
Power Station for use with 20V Batteries	4	DCB1800B	**48XP92**
USB Power Source for use with 12V & 20V Batteries	2	DCB090	**24WY40**
Corded Power Supply for 120V MAX Tools	2	DCA120	**48XP94**

DEWALT FLEXVOLT 60V MAX

Cordless Pistol-Grip Drills

Bare Tool
499M19

- Premium drill class
- ½" keyless chuck
- Brushless motor
- Max. power 1540 UWO
- Max. speed 600 RPM
- Anti-kickback clutch
- Built-in light

Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
(1) Bare Tool	—	1	**499M19**
(1) Bare Tool, (1) Battery, (1) Charger	(1) 6.0 Ah	1	**499M20**

DEWALT FLEXVOLT 60V MAX

60HH09

Cordless Joist & Stud Right-Angle Drills

- Keyless chuck
- Brushless motor
- Max. power 2600 UWO
- Variable speed trigger
- 2 speed settings
- Anti-kickback clutch
- Built-in light

Chuck Size	Max. Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
7⁄16 in	1,320 RPM	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	**60HH09**
½ in	1,320 RPM	(1) Bare Tool, (1) Battery, (1) Charger	(1) 9.0 Ah	**499M18**
	1,320 RPM	(1) Bare Tool	—	**499M17**
	1,250 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 6.0 Ah	**48XR15**
	1,250 RPM	(1) Bare Tool, (1) Battery, (1) Charger	(1) 6.0 Ah	**48XR14**
	1,250 RPM	(1) Bare Tool	—	**48XR13**

DEWALT FLEXVOLT 60V MAX

Cordless General Purpose Circular Saws

Bare Tool
423K69

- ⅝" arbor size
- Brushless motor
- 5800 RPM max. blade speed
- Adjustable cutting depth

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Shoe Material	Battery Capacity	Cordless Tool Kit Contents	Item No.
Left Blade Side							
Direct Drive							
7 ¼ in	2 7⁄16 in	1 ⅞ in	0° to 53° Left	Magnesium	6.0 Ah, 9.0 Ah	(1) Bare Tool	**423K69**
					9.0 Ah	(1) Bare Tool, (1) Battery, (1) Charger	**423K71**
Right Blade Side							
Standard Drive							
7 ¼ in	2 9⁄16 in	2 in	0° to 57° Left	Aluminum	6.0 Ah, 9.0 Ah	(1) Bare Tool	**60FG26**
					9.0 Ah	(1) Bare Tool, (1) Charger, (2) Batteries	**60FG28**
						(1) Bare Tool, (1) Battery, (1) Charger	**60FG27**

Cordless Track Saws

DEWALT FLEXVOLT 60V MAX

- ⅝" arbor
- Brushless motor
- Variable speed
- Max. blade speed 4000 RPM
- 2 ⅛" max. cutting depth @ 0°
- 1 ⅝" max. cutting depth @ 45°
- 0° to 47° right bevel angle
- 6.0Ah battery capacity

Blade Dia.	Track Included	Track Length	Cordless Tool Kit Contents	Item No.
6 ½ in	No	—	(1) Bare Tool	54DD22
	No	—	(1) Bare Tool, (1) Battery	54DD23
	Yes	59 in	(1) Bare Tool, (1) Battery, (1) Charger	54JJ55
Track Saw Accessories				
			46" Guide Track	3FRE1
			59" Guide Track	3FYW2
			102" Guide Track	3FYW3

Bare Tool
54DD22

48XR03

DEWALT FLEXVOLT 60V MAX

Cordless Table Saws

- ⅝" arbor
- Brushless motor
- Variable speed
- Max. blade speed 5800 RPM
- 24" max. cut width right of blade
- 12" max. cut width left of blade
- 2° right to 47° left bevel angle range
- 2 ½" max. cutting depth at 0°
- 1 ¾" max. cutting depth at 45°
- 6.0Ah battery capacity

Blade Dia.	Cordless Tool Kit Contents	Item No.
8 ¼ in	(1) Bare tool	48XR03
	(1) Bare Tool, (1) Battery, (1) Charger	48XR04

DEWALT FLEXVOLT 60V MAX

Cordless Angle Grinders

Bare Tool
60FG23

- Trigger style, without Lock-On
- Brushless motor
- Anti-kickback clutch, anti-restart brake, lock-off switch
- ⅝"-11 spindle thread
- Electronic brake & anti-kickback clutch

Compact tool rotates grinding or cut-off wheels to remove surface material or cut through metal.

Wheel Dia.	Battery Incl.	Cordless Tool Kit Contents	Item No.
Standard Head, Barrel Grip			
4 ½ in, 6 in	No	(1) Bare Tool	60FG23
Standard Head, Rat Tail			
4 ½ in, 6 in	53JH17	(1) Bare Tool, (1) Battery, (1) Charger	60FG24
	(2) 53JH17	(1) Bare Tool, (2) Batteries, (1) Charger,	60FG25
7 in	—	(1) Bare Tool	783WJ5
	—	(1) Bare Tool; (2) Batteries; (1) Charger	783WJ7

DEWALT FLEXVOLT 60V MAX

Cordless Reciprocating Saws

- Brushless motor
- Variable speed
- Adjustable steel shoe
- Pivoting head

Stroke Length	Max. Strokes per Minute	Stroke Type	Cordless Tool Kit Contents	Item No.
1 ⅛ in	3,000	Straight	(1) Bare Tool	60FG29
			(1) Bare Tool, (1) Charger, (2) Batteries	60FG31
			(1) Bare Tool, (1) Battery, (1) Charger	60FG30

60FG30

DEWALT 20V MAX LITHIUM ION

Batteries & Chargers

- Lithium-ion batteries
- 3-LED fuel gauge shows state of charge
- XR batteries: 0°F min. operating temperature

Batteries fit DEWALT cordless tools with the same voltage. A 20V MAX* battery works with 20V MAX*, MAX* XR, and Atomic series tools. MAX XR* batteries have more capacity than standard MAX* batteries.

Battery Capacity	1 Battery Included: Mfr. Model	1 Battery Included: Item No.	2 Batteries Included: Mfr. Model	2 Batteries Included: Item No.
20V MAX* Batteries				
1.5 Ah	DCB201	11A168	—	—
2 Ah	DCB203	21RV46	DCB203-2	21RV49
20V MAX* Compact Batteries				
3 Ah	DCB230	49AX96	DCB230-2	49AX97
4 Ah	DCB240	55KE70	DCB240-2	55KE71
20V MAX* Compact Battery & Charger				
3 Ah	DCB230C	487D96	—	—
4 Ah	DCB240C	55KE72	—	—
20V MAX* XR Batteries				
4 Ah	—	—	DCB204-2	21RV48
5 Ah	DCB205BTLR	60HH95	DCB205BT-2	52NA78
5 Ah	DCB205	31AC52	DCB205-2	34CT50
6 Ah	DCB206	52NA71	DCB206-2	52NA72
8 Ah	DCB208	55AC74	DCB208-2	55AC75
10 Ah	DCB210	60NP05	DCB210-2	60NP06
20V MAX* XR Battery & Charger				
4 Ah	DCB102BP	31AC56	—	—
20V MAX XR Batteries				
4 Ah	DCB204	21RV47	—	—
POWERSTACK Batteries				
1.7 Ah	DCBP034	784GM8	DCBP034-2	784GN0
POWERSTACK Batteries & Charger				
1.7 Ah	DCBP034C	784GM9	—	—

** Tool Connect wireless tool tracking*

20V MAX*
Compact
49AX96

Multi-Port
Simultaneous
Charging
30RV89

For Battery Chemistry	No. of Ports	Charging Port Voltage	Charger Class	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Multi-Port Simultaneous Charging						
Li-Ion	2	(2) 12V/20V	Standard	2 Ah	DCB102	30RV89
	4	(4) 12V/20V/60V	Rapid	6 Ah	DCB104	453U29
Li-Ion, NiCd, NiMH	2	(1) 12V/20V, (1) 7.2V/14.4V/18V	Standard	2 Ah	DCB103	24T872
Single-Port Charging						
Li-Ion	1	(1) 12V/20V/60V	Standard	1.5 Ah	DCB119	11A158
		(1) 12V/20V		4 Ah	DCB115	11A157
					DCB115-QW	54PD37
		(1) 20V/60V	Rapid	8 Ah	DCB118	49EM80
		12V, 20V		6 Ah	DCB1106	60HH83

Cordless Tool Combination Kits

20V MAX XR
49EM78

20V MAX
52HM45

20V MAX
54JK23

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
ATOMIC							
2	½ in Hammer Drill (Compact, 1,650 RPM)	—	—	Oscillating Tool	Contractor Bag	(2) 1.5 Ah	**784K49**
20V MAX XR							
2	—	¼ in Drywall Screw Gun (4,400 RPM)	—	Cut-Out Tool	Contractor Bag	(2) 2.0 Ah	**31AC36**
2	½ in Drill (Compact, 2,000 PRM)	Impact Driver (1,825 in-lb)	—	—	Contractor Bag	(2) 2.0 Ah	**39RV89**
2	½ in Hammer Drill (Compact, 34,000 BPM)	Impact Driver	—	—	Contractor Bag	(2) 2.0 Ah	**39RW06**
2	½ in Hammer Drill (38,250 BPM)	Impact Driver (1,825 in-lb)	—	—	Contractor Bag	(2) 4.0 Ah	**39RW13**
2	½ in Hammer Drill (38,250 BPM)	Impact Driver (1,825 in-lb)	—	—	Kit Box	(2) 5.0 Ah	**45DK63**
2	—	Impact Driver (1,825 in-lb), Drywall Screw Gun	—	—	Contractor Bag	(2) 2.0 Ah	**49EM78**
2	—	Impact Driver (1,825 in-lb), Drywall Screw Gun	—	—	Contractor Bag	(2) 4.0 Ah	**49EM79**
5	½ in Drill (Compact, 2,000 RPM)	Impact Driver (1,400 in-lb)	Angle Grinder (8,000 RPM)	Flashlight	Contractor Bag	(2) 2.0 Ah	**453U32**
20V MAX							
2	½ in Drill (Compact, 2,000 PRM)	Impact Driver (1,400 in-lb)	—	—	(1) Contractor Bag	(2) 1.5 Ah	**11A169**
2	½ in Drill (Compact, 1,600 RPM)	Impact Driver (1,500 in-lb)	—	—	Kit Bag	(2) 1.5 Ah	**459R39**
2	½ in Hammer Drill (General Purpose, 34,000 BPM)	Impact Driver (1,825 in-lb)	—	—	Contractor Bag	(1) 2.0 Ah, (1) 4.0 Ah	**459R40**
2	½ in Hammer Drill (38,250 BPM)	Impact Driver (1,825 in-lb)	—	—	Contractor Bag	(2) 5.0 Ah	**490L14**
2	½ in Drill (Compact, 1,500 RPM)	Impact Driver (1,700 in-lb)	—	—	Yes	(2) 1.5 Ah	**499M07**
2	½ in Drill (Compact, 1,800 RPM)	Impact Driver (1,400 in-lb)	—	—	Contractor Bag	(2) 1.3 Ah	**52HM45**
2	—	Impact Driver (1,825 in-lb)	—	½ in Rotary Hammer	Contractor Bag	(2) 5.0 Ah	**54DD02**
2	½ in Hammer Drill (38,250 BPM)	—	Compact Reciprocating Saw	—	Contractor Bag	(2) 5.0 Ah	**54DD04**
2	—	½ in Impact Wrench; ⅜ in Impact Wrench	—	—	Contractor Bag	(2) 5 Ah	**784K48**
3	—	½ in Impact Wrench (700 ft-lb)	—	Grease Gun, Spot Light	Contractor Bag	(2) 4.0 Ah	**48XP48**
4	½ in Drill (Compact, 2,000 PRM)	Impact Driver (1,400 in-lb)	Full-Size Reciprocating Saw	Work Light	Contractor Bag	(2) 2.0 Ah	**459R41**
4	—	Impact Driver (1,825 in-lb), ½ in Impact Wrench (330 ft-lb)	Angle Grinder (8,000 RPM)	Flashlight	Contractor Bag	(2) 5.0 Ah	**499M14**
4	½ in Drill (Compact Subcompact, 2,000 RPM)	Impact Driver (1,825 in-b)	Circular Saw (7 ¼ in Dia.)	Work Light	Contractor Bag	(2) 2.0 Ah	**54DC96**
4	½ in Drill (Compact Subcompact, 2,000 RPM)	Impact Driver (1,825 in-lb)	Compact Reciprocating Saw	Flashlight	Contractor Bag	(2) 2.0 Ah	**54DC97**
4	½ in Hammer Drill (38,250 BPM)	Impact Driver (1,400 in-lb)	Full-Size Reciprocating Saw	Flashlight	Contractor Bag	(2) 5.0 Ah	**54DD03**
4	½ in Hammer Drill (General Purpose, 34,000 BPM)	Impact Driver (1,825 in-lb)	Compact Reciprocating Saw	Work Light	Contractor Bag	(1) 2 Ah, (1) 4 Ah	**60FG32**
5	½ in Hammer Drill (Premium, 34,000 BPM)	Impact Driver (1,400 in-lb)	Circular Saw (6 ½ in Dia.), Full-Size Reciprocating Saw	Flashlight	Contractor Bag	(2) 3.0 Ah	**11A163**
5	½ in Hammer Drill (Premium, 34,000 BPM)	Impact Driver (1,400 in-lb)	Circular Saw (6 ½ in Dia.), Full-Size Reciprocating Saw	Flashlight	Contractor Bag	(2) 3.0 Ah	**24T871**
5	½ in Hammer Drill (38,250 BPM)	Impact Driver (1,825 in-lb)	Circular Saw (7 ¼ in Dia.), Full-Size Reciprocating Saw	Flashlight	Contractor Bag	(2) 5.0 Ah	**54JK22**
6	½ in Hammer Drill (Compact, 38,250 BPM)	Impact Driver (1,825 in-lb)	Circular Saw (7 ¼ in Dia.), Full-Size Reciprocating Saw	Flashlight, Oscillating Tool	Contractor Bag	(2) 5.0 Ah	**54JK23**
6	½ in Hammer Drill (Compact, 38,250 BPM)	Impact Driver (1,825 in-lb)	Angle Grinder (9,000 RPM), Circular Saw (7 ¼ in Dia.), Full-Size Reciprocating Saw	Flashlight	Tool Bag	(2) 5.0 Ah	**54JK24**
6	½ in Drill (General Purpose, 1,750 RPM)	¼ in Impact Driver	Circular Saw; Full-Size Reciprocating Saw	Flashlight, Oscillating Tool	Kit Bag	(2) 2 Ah	**784K51**

Cordless Pistol-Grip Drills

- ½" keyless chuck
- Brushless motor
- Built-in light

Compact
32ZU52

Premium
39RV96

Max. Speed	Max. Power	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Number of Clutch Settings	Item No.
Compact						
1,650 RPM	340 UWO	(1) Bare Tool	—	2	15 + Drill Mode	**55CJ61**
	340 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	2	15 + Drill Mode	**499M05**
1,750 RPM	340 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	2	15 + Drill Mode	**52HM43**
1,800 RPM	300 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	2	16	**32ZU52**
2,000 RPM	350 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	2	15 + Drill Mode	**11A170**
Compact Premium						
2,000 RPM	460 UWO	(1) Bare Tool	—	2	15 + Drill Mode	**54DD13** *
	460 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2	15 + Drill Mode	**39RW10**
	460 UWO	(1) Bare Tool	—	2	15 + Drill Mode	**39RW21**
	460 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2	15 + Drill Mode	**54DD12** *
Premium						
2,000 RPM	820 UWO	(1) Bare Tool	—	3	11 + Drill Mode	**39RW04**
	820 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	3	11 + Drill Mode	**39RV96**

** Tool Connect wireless tool tracking*

Cordless Impact Drivers

- ¼" hex drive
- Straight drive
- Built-in light

52HM44

Bare Tool
55CJ62

Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Brushless Motor: No						
1,400 in-lb	2,800 RPM	3,200	(1) Bare Tool	—	1	**24T861**
	2,800 RPM	3,200	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	1	**52HM44**
	2,800 RPM	3,200	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	1	**11A180**
	2,800 RPM	3,200	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	1	**11A181**
Brushless Motor: Yes						
1,700 in-lb	2,800 RPM	3,200	(1) Bare Tool	—	1	**55CJ62**
	2,800 RPM	3,200	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	1	**55CJ60**
	2,800 RPM	3,200	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	1	**499M06**
	3,200 RPM	4,200	(1) Bare Tool, (2) Batteries, (1) Charger	—	—	**783H04**
1,825 in-lb	3,250 RPM	3,600	(1) Bare Tool, (2) Battery, (1) Charger	(2) 4.0 Ah	3	**39RW18**
	3,250 RPM	3,600	(1) Bare Tool, (3) Batteries, (1) Charger	(2) 2.0 Ah	3	**42EX57**
	3,250 RPM	3,800	(1) Bare Tool	—	4	**54DD17** *
	3,250 RPM	3,800	(1) Bare Tool, (1) Battery, (1) Charger	(1) 5.0 Ah	—	**783H07**
	3,250 RPM	3,800	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	4	**54DD15** *
	3,250 RPM	3,800	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	4	**54DD16** *
	3,250 RPM	3,800	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	—	**783H06**
Full-Size, Through Hole Retainer						
400 ft-lb	2,850 RPM	3,250	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1	**783H03**

** Tool Connect wireless tool tracking*

Compact, Pin Detent Retainer
38A893

Full Size, Friction Ring Retainer
24T867

Full-Size, Quick Change Hex Retainer
39EL94

Cordless Impact Wrenches

- Built-in light

Drive Size	Fastening Torque	Breakaway Torque	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Number of Speed Settings	Item No.
Compact, Friction Ring Retainer							
Brushless Motor: Yes							
⅜ in Square	150 ft-lb	150 ft-lb	(1) Bare Tool	—	2,800 RPM	1	52NA73
½ in Square	330 ft-lb	600 ft-lb	(1) Bare Tool	—	2,000 RPM	1	453U25 *
Compact, Hog Ring Retainer							
Brushless Motor: Yes							
½ in	600 ft-lb	800 ft-lb	(1) Bare Tool	—	2,000 RPM	4	793DX3
	600 ft-lb	800 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 AH	2,000 RPM	4	793DX4
	1,015 ft-lb	1,400 ft-lb	(1) Bare Tool	—	2,200 RPM	4	793DX0
	1,015 ft-lb	1,400 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 5.0 AH	2,200 RPM	4	793DX2
	1,015 ft-lb	1,400 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 AH	2,200 RPM	4	793DX1
Compact, Pin Detent Retainer							
Brushless Motor: No							
½ in Square	150 ft-lb	150 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	2,300 RPM	1	38A893
Brushless Motor: Yes							
½ in	300 ft-lb	450 ft-lb	(1) Bare Tool	—	2,500 RPM	4	783GZ6
½ in Square	330 ft-lb	600 ft-lb	(1) Bare Tool	—	2,000 RPM	1	453U24 *
	330 ft-lb	600 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	2,000 RPM	1	453U27 *
	330 ft-lb	600 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	2,000 RPM	2	54JK36
½ in	600 ft-lb	800 ft-lb	(1) Bare Tool	—	2,000 RPM	4	793DX5
Compact, Through Hole Retainer							
Brushless Motor: Yes							
⅜ in	250 ft-lb	400 ft-lb	(1) Bare Tool	—	2,850 RPM	1	783H02
	300 ft-lb	450 ft-lb	(1) Bare Tool	—	2,500 RPM	4	783GZ7
	300 ft-lb	450 ft-lb	(1) Bare Tool; (2) Batteries; (1) Charger	(2) 5.0 Ah	2,500 RPM	4	783GZ8
½ in	250 ft-lb	400 ft-lb	(1) Bare Tool	—	2,850 RPM	1	783GZ9
	250 ft-lb	400 ft-lb	(1) Bare Tool; (2) Batteries; (1) Charger	(2) 5.0 Ah	2,850 RPM	1	783H01
	300 ft-lb	450 ft-lb	(1) Bare Tool	—	2,500 RPM	4	783GZ4
	300 ft-lb	450 ft-lb	(1) Bare Tool; (2) Batteries; (1) Charger	(2) 5.0 Ah	2,500 RPM	4	783GZ5
Full-Size, Friction Ring Retainer							
Brushless Motor: No							
½ in Square	400 ft-lb	400 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	1,500 RPM	1	24T867
Brushless Motor: Yes							
¾ in Square	700 ft-lb	1,200 ft-lb	(1) Bare Tool	—	1,900 RPM	3	39EL89
	700 ft-lb	1,200 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,900 RPM	3	39EL91
Full-Size, Pin Detent Retainer							
Brushless Motor: No							
½ in Square	400 ft-lb	400 ft-lb	(1) Bare Tool	—	1,500 RPM	1	38A892
	400 ft-lb	400 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	1,500 RPM	1	24T866
Brushless Motor: Yes							
½ in Square	700 ft-lb	1,200 ft-lb	(1) Bare Tool	—	1,900 RPM	3	39EL96
	700 ft-lb	1,200 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 5.0 Ah	1,900 RPM	3	39EL90
	700 ft-lb	1,200 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,900 RPM	3	39EL92
Full-Size, Quick Change Hex Retainer							
Brushless Motor: Yes							
7⁄16 in Hex	500 ft-lb	500 ft-lb	(1) Bare Tool	—	1,900 RPM	3	39EL87
	500 ft-lb	500 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,900 RPM	3	39EL94
Full-Size, Through Hole Retainer							
Brushless Motor: Yes							
⅜ in	250 ft-lb	400 ft-lb	(1) Bare Tool; (2) Batteries; (1) Charger	(2) 5.0 Ah	2,850 RPM	1	783H03

** Tool Connect wireless tool tracking*

490L11

Cordless Hammer Drills

- ½" keyless chuck
- Brushless motor
- Max. power 1219 UWO
- Built-in light

No Load RPM	Blows per Minute	Battery Included/ Bare Tool	Item No.
0 to 500/0 to 1750	0 to 29,750, 0 to 8,500	Battery Included	490L11
0 to 575/0 to 1350/0 to 2000	0 to 22,950, 0 to 34,000, 0 to 9,775	Bare Tool	24T854
0 to 2000	0 to 34,000		423K74 *
2,250	0 to 38,250		60KA36

** Tool Connect wireless tool tracking*

D-Handle
499M03

Cordless Rotary Hammers

- SDS-plus chuck
- Brushless motor

No Load RPM	Blows per Minute	Impact Energy	Battery Incl.	Capacity in Concrete	Item No.
Pistol-Grip					
0 to 1000	0 bpm to 4,480 bpm	2.6 ft-lb	No	1 ⅛ in	52YP67
0 to 1000	0 bpm to 4,480 bpm	2.6 ft-lb	(2) Mfr. No. DCB206	1 ⅛ in	52YP68
0 to 1000	0 bpm to 4,480 bpm	2.6 ft-lb	(2) 52NA72	1 ⅛ in	54JJ38
0 to 1100	0 bpm to 4,600 bpm	1.5 ft-lb	(2) Mfr. No. DCB205	1 in	437T05
0 to 1100	0 bpm to 4,600 bpm	1.5 ft-lb	No	1 in	44YX76
0 to 1100	0 bpm to 4,600 bpm	1.5 ft-lb	31AC52	1 in	44YX78
L-Shape					
0 to 1060 RPM	0 bpm to 1,100 bpm	1.03 ft-lb	No	½ in	783RW8
0 to 1060 RPM	0 bpm to 1,100 bpm	1.03 ft-lb	(2) 21RV46	½ in	783RW9
D-Handle					
0 to 1165	0 bpm to 4,300 bpm	2.2 ft-lb	No	1 ⅛ in	499M03
0 to 1165	0 bpm to 4,300 bpm	2.2 ft-lb	(2) 52NA71	1 ⅛ in	499M04
0 to 1500	0 bpm to 5,500 bpm	1.9 ft-lb	(2) 21RV47	1 in	52NA75
0 to 1500	0 bpm to 5,500 bpm	1.9 ft-lb	No	1 in	52NA76
Accessories					
Dust Extractor Dust Box, Includes Dust Box, Filter Cleaning Mechanism, Compatible with 54JJ52, 54JJ53					54JJ51
On-Tool Dust Extractor, Includes Dust Box, Compatible with 44YX76, 44YX78					54JJ52
On-Tool Dust Extractor, Includes Dust Box, Corded Adapter and Dust Nozzle, Compatible with 52YP67, 52YP68, 54JJ36					54JJ53

Metal Fastening Bare Tool
49AX99

Cordless Screw Guns

- ¼" hex drive
- Brushless motor
- Reversible
- Built-in light

Free Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
Metal Fastening Screw Gun			
2,000 RPM	(1) Bare Tool	—	49AX99
2,000 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	49AY01
Drywall Screw Gun			
4,400 RPM	(1) Bare Tool	—	31AC37
4,400 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	31AC38
4,400 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	31AC39

Scan. Order. Done.
Details on page A1.

Cordless Right-Angle Drills

- ⅜" chuck
- Brushless motor
- Max. speed 2000 RPM
- Max. torque 360 in.-lb.
- Max. power 360 UWO
- Built-in light

11A173

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool	—	24T852
(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	11A173

Cordless Reciprocating Saws

Full-Size
11A179

- Variable speed
- Adjustable shoe
- Pivoting head

Stroke Length	Max. Strokes per Minute	Stroke Type	Cordless Tool Kit Contents	Battery Capacity	Item No.
Compact					
Brushless Motor: No					
1 ⅛ in	2,900	Straight	(1) Bare Tool	—	31AC41
1 ⅛ in	2,900	Straight	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	31AC42
Brushless Motor: Yes					
⅝ in	2,800	Straight	(1) Bare Tool	—	55WF07
⅝ in	2,800	Straight	(1) Bare Tool (1) Battery, (1) Charger	5 Ah	55WF08
1 ⅛ in	2,900	Straight	(1) Bare Tool	—	49AX88
1 ⅛ in	2,900	Straight	(1) Bare Tool, (1) Battery, (1) Charger	2 Ah	49AX89
1 ⅛ in	2,900	Straight	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	49AX90
Full-Size					
Brushless Motor: No					
1 ⅛ in	3,000	Orbital	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	11A179
1 ⅛ in	3,000	Orbital	(1) Bare Tool	—	24T859
Brushless Motor: Yes					
1 ⅛ in	3,000	Straight	(1) Bare Tool	—	60KA38 *

** Tool Connect wireless tool tracking*

Cordless Miter Saws

39RW02

- ⅝" arbor
- 48° left to 35° right miter angle range
- 48° left to 48° right bevel angle range
- Max. blade speed 3750 RPM
- 2" max. cut depth @ 0° bevel
- 5 ½" max. cut width @ 45° miter
- 3.0Ah battery capacity

Sliding cutting arm makes straight and angled cuts.

Blade Dia.	Cordless Tool Kit Contents	Item No.
7 ¼ in	(1) Bare Tool, (2) Batteries, (1) Charger	39RW25
	(1) Bare Tool	39RW02

Cordless Bandsaws

25DU77

Blade Length	Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: No						
32 ⅞ in	2 ½ in	2 ½ in	570	Bare Tool	—	25DU77
			570	Bare Tool, Battery, Charger	5.0 Ah	25DU76
Brushless Motor: Yes						
27 in	1 ¾ in x 1 ¾ in	1 ¾ in	150 to 380	14/18 TPI Blade, Bare Tool, Blade Tracking Wrench	(1) 4 Ah	60NP13
44 ⅞ in	5 in x 4 ¾ in	4 ¾ in	490	Bare Tool	—	39RV91
			0 to 490	Bare Tool, Charger, (2) Batteries	(2) 5.0 Ah	39RV81

Cordless General Purpose Circular Saws

Left Blade Side
11A166

- ⅝" arbor size
- Adjustable cutting depth

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Bevel Angle Range	Cordless Tool Kit Contents	Battery Capacity	Max. Blade Speed	Item No.
Left Blade Side						
4 ½ in	1 $^{9}/_{16}$ in	0° to 45° Left	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	4,500 RPM	55AC70
			(1) Bare Tool	5 Ah	—	55CJ64
6 ½ in	2 ¼ in	0° to 50° Left	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	5,150 RPM	11A166
			(1) Bare Tool	6.0 Ah, 9.0 Ah	5,150 RPM	24T860
Right Blade Side						
7 ¼ in	2 $^{9}/_{16}$ in	0° to 57° Right	(1) Bare Tool	6.0 Ah, 9.0 Ah	5,200 RPM	54DD20
			(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	5,200 RPM	54DD21

Cordless Metal Cutting Circular Saws

Bare Tool
38A919

- ¾" arbor size
- Left blade side
- 1 $^{11}/_{16}$" Max. cutting depth @ 0 deg.
- Direct drive
- Brushless motor
- 3,700 rpm max. blade speed

Blade Dia.	Cordless Tool Kit Contents	Battery Capacity	Item No.
5 ½ in	(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	38A918
	(1) Bare Tool	6.0 Ah, 9.0 Ah	38A919

Cordless Jigsaws

- T-shank blade
- Variable speed
- Orbital stroke
- 1" stroke length
- 45° left to 45° right bevel range

Cordless Tool Kit Contents	Battery Capacity	Strokes per Minute	Item No.
Barrel Grip			
Brushless Motor: Yes			
(1) Bare Tool	—	0 to 3200	492P04
Top Handle			
Brushless Motor: No			
(1) Bare Tool, (1) Battery, (1) Charger	4.0Ah	0 to 3000	24T868
(1) Bare Tool	—	0 to 3000	24T858
Brushless Motor: Yes			
(1) Bare Tool, (1) Battery, (1) Charger	5.0Ah	0 to 3200	492P02
(1) Bare Tool	—	0 to 3200	492P03

Top Handle
Bare Tool
24T858

Cordless Oscillating Tools

55KE58

Orbits per Min.	Battery Included/ Bare Tool	Battery Capacity	Includes	Item No.
18,000	Bare Tool	—	(1) Fast-Cut Wood Blade, (1) Universal Accessory Adapter, (1) Wood With Nails Blade	55CJ65
0 to 20,000	Bare Tool	—	(1) Fast-Cut Wood Blade, (1) Universal Accessory Adaptor, (1) Wood with Nails Blade	55KE57
0 to 20,000	Battery Included	(1) 2.0 Ah	(1) Accessory Storage Box, (1) Depth Guide, (1) Fast-Cut Wood Blade, (1) Sanding Pad, (1) Tool Bag, (1) Universal Accessory Adapter, (1) Wood With Nails Blade, (25) Sheets of Sand Paper	55KE58

Cordless Staplers

Crowned Stapler
400A07

For Staple Width	For Staple Gauge	For Staple Leg Length	Staple Cap.	Cordless Tool Kit Contents	Battery Capacity	Built-In Light	Item No.
Crowned Stapler							
Combination Firing Mode							
¼ in	18 ga	½ in to 1 ½ in	100	(1) Bare Tool	—	Yes	400A04
				(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah		400A05
				(1) Bare Tool, (1) Battery, (1) Charger	(1) 4.0 Ah		400A07
Fencing Stapler							
Combination Firing Mode							
⅜ in	9 ga	1 ½ in to 2 in	35	(1) Bare Tool	—	No	54ZE50
				(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah		54ZE51
Insulated Stapler							
Sequential Firing Mode							
1 in	18 ga	1 in	35	(1) Bare Tool	—	Yes	499M09
				(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah		499M10

Brad Nailer
400A02

Finish Nailer
400A09

Concrete Nailer
413W25

Framing Nailer
30PL21

Roofing Nailer
60FG21

Cordless Nailers

- Brushless motor
- Depth control
- Non-marring tip
- Built-in light for brad, finish, and concrete nailers

Firing Mode	For Nail Gauge	For Nail Length Range	Cordless Tool Kit Contents	Magazine Cap.	Battery Capacity	Item No.
Brad Nailer						
0° Adhesive Collation Strip						
Combination	18 ga	⅝ in to 2 ⅛ in	(1) Bare Tool	110	—	400A02
			(1) Bare Tool, (1) Battery, (1) Charger		2.0 Ah	400A03
Finish Nailer						
0° Adhesive Collation Strip						
Combination	16 ga	1 ¼ in to 2 ½ in	(1) Bare Tool	110	2.0 Ah	492T35
			(1) Bare Tool, (1) Battery, (1) Charger			492T36
20° Adhesive Collation Strip						
Combination	16 ga	1 ¼ in to 2 ½ in	(1) Bare Tool	110	—	39RW08
			(1) Bare Tool, (1) Battery, (1) Charger		2.0 Ah	39RW22
35° Adhesive Collation Strip						
Combination	15 ga	1 ¼ in to 2 ½ in	(1) Bare Tool	110	—	400A08
			(1) Bare Tool, (1) Battery, (1) Charger		2.0 Ah	400A09
Pin Nailer						
Adhesive Collation Strip						
Sequential	23 ga	⅝ in to 1 ½ in	(1) Bare Tool		—	783RW5
			(1) Bare Tool, (1) Battery, (1) Charger	—	2.0 Ah	783RW4

Firing Mode	For Nail Shank Diameter	For Nail Length Range	Cordless Tool Kit Contents	Magazine Cap.	Battery Capacity	Item No.
Concrete Nailer						
15° Plastic Collation Strip						
Sequential	0.102 in to 0.145 in	½ in to 2 ¼ in	(1) Bare Tool, (2) Batteries, (1) Charger	33	5.0 Ah	413W25
Framing Nailer						
21° Plastic Collation Strip						
Combination	0.131 in to 0.148 in	2 in to 3 ¼ in	(1) Bare Tool	49	—	492T33
			(1) Bare Tool, (1) Battery, (1) Charger		4.0 Ah	492T34
30° Paper Collation Strip						
Combination	0.113 in to 0.131 in	2 in to 3 ½ in	(1) Bare Tool	55	—	30PL21
			(1) Bare Tool, (1) Battery, (1) Charger		4.0 Ah	30PL22
Roofing Nailer						
15° Wire Collation Coil						
Bump	0.12 in	¾ in to 1 ¾ in	(1) Bare Tool	120	—	60FG21
			(1) Bare Tool, (1) Battery, (1) Charger		2.0 Ah	60FG22

Cordless Grease Guns

25DU73

- 14 ½ oz. cartridge capacity
- 16 oz. bulk capacity
- 42" flexible hose
- 37 strokes per 1 oz. output
- 5 oz./min.
- Variable speed
- Max. operating pressure 10,000 psi

Battery Incl.	Battery Capacity	Includes	Item No.
No	4.0 Ah	Shoulder Strap	25DU73
21RV47		21RV47 Battery, Charger, Kit Box, Shoulder Strap	25DU72

Cordless Vacuums

Wet/Dry Vacuum
34D626

- Includes washable wet/dry HEPA filter for efficient and versatile cleaning
- On-board crevice and wide nozzle attachments

Description	Battery Incl.	Battery Capacity	Item No.
Vacuums			
0.5 gal.	No	4.0 Ah	49EM75
0.5 gal., Includes: (1) DCB115 Charger, (1) DCB204 Battery	21RV47	4.0 Ah	49EM76
Wet/Dry Vacuums			
2-gal., HEPA Filter	No	—	34D626
Cordless/Corded, 2-gal., HEPA Filter	No	—	34D627

Cordless Shear
49EM83

Cordless Shears

Shear Style	Steel Capacity	Stainless Steel Capacity	Min. Radius	Cordless Tool Kit Contents	Item No.
Cordless Shears					
Double Cut	14 ga	14 ga	5 ½ in	(1) Bare Tool	49EM82
		14 ga	5 ½ in	(1) Bare Tool, (2) Batteries, (1) Charger	49EM83
	18 ga	18 ga	5 ½ in	(1) Bare Tool	49EM98
		18 ga	5 ½ in	(1) Bare Tool, (2) Batteries, (1) Charger	49EM99
Single Cut		18 ga	1 in	(1) Bare Tool	49EN01

No Load Strokes/Minute	Cutting Cap. (in.)	Amps @ 120V	Mfr. Model	Item No.
Fiber Cement Shears				
0 to 2500	½ in	6.5	DCS498B	453U22

Cordless Cable Cutters

49EM86

- Forward/reverse button
- Built-in light

Cutting Cap./Material	Battery Incl.	Battery Capacity	Item No.
1000 MCM Aluminum, 750 MCM Copper	21RV46	2.0 Ah	49EM87
	No	—	49EM86
Replacement Blade, For Use With Mfr. No. DCE155			54JJ34

Cordless Cut Off Tool

20V MAX

- 3" Wheel dia.
- Brushless motor
- 20,000 rpm
- ⅜" Arbor hole
- Built in light

Cordless Tool Kit Contents	Includes	Item No.
(1) Bare Tool	7/16 in Arbor Adapter Ring, Hex Wrench, Mfr. No. DW47350 Diamond Tile Wheel, Mfr. No. DW8530 Diamond Multi-Material Wheel, Mfr. No. DW8711 Bonded Abrasive Wheel, Removable Dust Shroud with Adjustable Shoe and AirLock™ Connection	786VM1

Bare Tool
49EM90

Cordless Caulk Guns

For Container Size	Maximum Dispensing Speed	Frame Style	(1) Bare Tool Item No.	(1) Bare Tool, (1) Battery, (1) Charger Item No.
Cartridge				
10 oz	21 in/min	Open	49EM90	49EM91
20.5 oz	6.5 in/min	—	413W20	413W21
28 oz	6.5 in/min	—	413W22	413W23
29 oz	21 in/min	Open	49EM92	49EM93
Sausage Pack				
600 mL	21 in/min	Enclosed	49EM94	49EM95

49EM88

Cordless Crimping Tools

- Built-in light

Crimping Force	Includes	Battery Capacity	Item No.
Dieless Cable Crimping Tool Kit			
6 tons	(2) 4 Ah Li-Ion batteries (DCB204), (1) Charger (DCE115), (1) Shoulder Strap, (1) Kit Box	4.0 Ah	49EM89
Died Cable Crimping Tool Kit			
12 tons	(2) 4 Ah Li-Ion batteries (DCB204), (1) Charger (DCE115), (1) Shoulder Strap, (1) Kit Box	4.0 Ah	49EM88

Cordless Cable Strippers

54DD25

- Strips up to 4"
- Copper cable capacity: 6 AWG to 750 MCM
- Aluminum cable capacity: 5 AWG to 900 MCM

Cable Material	Cable Type	Battery Incl.	Battery Capacity	Item No.
Aluminum, Copper	THHN/XHHW	No	—	54DD24
		Mfr. No. DCB203	2 Ah	54DD25

437U50

Cordless Drain Snakes

Operating Speed	Cable Size	Battery Included/ Bare Tool	Battery Capacity	Item No.
0 to 620 RPM	5⁄16 in x 25 ft	Battery Included	2.0 Ah	437U49
		Bare Tool	—	437U50

39RV88

Cordless Threaded Rod Cutters

- 4-sided, rotatable, cutting die
- Forward/reverse/lock off switch
- Built-in light

Cutting Cap./Material	Includes	Battery Incl.	Battery Capacity	Item No.
¼ in, ⅜ in, ½ in Steel	4-Sided Cutter Head, Cutter Wrench, Hang Hook	No	—	39RV88
½ in Steel, ¼ in Steel, ⅜ in Steel	(2) 4-Sided Cutting Dies, Battery, Charger, Cutting Die Adjustment Wrench, Kit Bag	21RV46	2.0 Ah	39RW27

20V MAX

Bare Tool
787WC6

Cordless Ratchets

- 70 ft-lb Fastening torque
- 250 RPM free speed
- 1 3⁄16" Head width
- Brushless motor
- 3.0Ah Battery capacity

Description	Cordless Tool Kit Contents	Item No.
⅜ in Square Ball Detent	(1) Bare Tool	787WC6
½ in Square Ball Detent	(1) Bare Tool	787WC8

49EM85

Cordless Copper Press Tools

- ½" to 4" pipe capacity
- 360° pivoting head
- Built-in light

Crimping Force	Includes	Battery Capacity	Item No.
Cordless Press Tool with Jaws			
4 ton	(2) Batteries, Charger, Shoulder Strap, (6) press jaws sizes ½ in, ¾ in, 1 in, 1 ¼ in, 1 ½ in, 2 in, Kit Box	4.0 Ah	49EM85
Cordless Press Tool Kit			
4 ton	(2) Batteries, Charger, Shoulder Strap	4.0 Ah	49EM84

Cordless PEX Expanders

54JK19

- Expand ⅜" to 1" PEX type A tubing
- Built-in light

For Use With	Includes	Battery Capacity	Item No.
Pipe ½ in to 1 in	Grease, Kit Box	—	54JK19
	(2) Battery Packs, Charger, Expansion Heads: ¾ in, ½ in, 1 in, Grease, Kit Box	2.0 Ah	54JK18

492P10

Cordless Worklights

Description	Brightness Level	Focus	Battery Included/ Bare Tool	Light Output Mode	Run Time	Item No.
LED Cordless Flashlight	165 lm	Fixed	Bare Tool	High	17 hr, 36 hr	49AX98
LED Pivoting Head Worklight	110 lm	Fixed	Bare Tool	High	25 hr	11A159
LED Handheld Worklight	900 lm, 1,700 lm, 3,000 lm	Fixed	Bare Tool	High / Low	20 hr, 30 hr	30RV91
LED Spotlight	500 lm, 1,500 lm	Fixed	Bare Tool	High / Low	13.5 hr	38XU32
LED Cordless Tripod Light	3,000 lm	Fixed	Battery Included	High / Medium / Low	11 hr	423K72
	3,000 lm	Fixed	Bare Tool	High / Medium / Low	11 hr	423K73
LED Cordless Site Light	5,000 lm	Spot Beam	Bare Tool	High / Medium / Low	11 hr	492P10
LED Cordless Underhood Light	800 lm, 1,700 lm	Fixed	Bare Tool	High / Low	10 hr	784K58

DEWALT 20V MAX LITHIUM ION

Cordless Planer

- Brushless motor
- 30,000 cuts per min.
- Calibrated depth adjustment knob

Cutting Depth	Cutting Width	No Load RPM	Battery Included	Battery Capacity	Item No.
5/64 in	3 ¼ in	15,000 RPM	No	2.0 Ah, 3.0 Ah, 4.0 Ah, 5.0 Ah, 6.0 Ah	**49EM77**

DEWALT 20V MAX LITHIUM ION

Cordless Jobsite Radios

- Safety roll cage
- Operate on battery or AC power

Description	Battery Included	Features	Item No.
FLEXVOLT™ 60V/20V Radio and Charger	No	20 Watts Per Channel Woofers, Air Ports, Audio Video Remote Control Protocol, Bluetooth Connectivity Up to 100 ft, Tweeters	**48XP95**

DEWALT 12V MAX

Batteries & Chargers

- Lithium-ion batteries

499M12

Battery Capacity	Number of Batteries Included: 1 — Mfr. Model	1 — Item No.	2 — Mfr. Model	2 — Item No.
12V MAX				
3 Ah	DCB124	**499M12**	DCB124-2	**499M13**
5 Ah		—	DCb126-2	**60NP04**
12V MAX Oil-Resistant				
3 Ah	DCB124G	**60NP09**		—
5 Ah	DCB126G	**60NP08**		—

For Battery Voltage	Charger Class	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Single-Port Charging				
12V, 20V	Standard	4 Ah	DCB115	**11A157**
	Rapid	6 Ah	DCB1106	**60HH83**

Bare Tool 39RW11

DEWALT 20V MAX LITHIUM ION

Cordless Blowers

- 3-speed selector switch
- Trigger lock

Max. Air Speed	Max. Air Flow	Battery Incl.	Item No.
135 mph	100 cfm	21RV47	**39RV82**
		—	**39RW11**

DEWALT 20V MAX LITHIUM ION

Cordless Jobsite Fan

- Variable speed
- No oscillation

Blade Dia.	Air Flow	Item No.
11 in	650 cfm	**783WJ8**

54DD09

DEWALT

Tool Connect Tags & Router

- 100 ft. signal range

Tracking tags and battery connectors pair with the Tool Connect app to locate tagged tools and equipment. **Tool tags** attach to equipment with glue, screws, or zip ties. **Tracking connectors** slide onto the base of a compatible tool to form a new interface for the battery. They emit a Bluetooth signal that broadcasts up to 100 ft.

Tracking Connector 54DD08

Size	Mfr. Model	Item No.	Pkg. Qty.
Tool Tag			
2 ½ in x 5 in x 6 in	DCE041	**54DD09**	1
	DCE041-4	**54JJ54**	4
	DCE041-10	**54DD10**	10
	DCE041-25	**54DD11**	25
Tracking Connector			
2 ¼ in x 6 in x 7 ½ in	DCE040	**54DD08**	1

784K51

55AC81

6CXN9

Cordless Combo Kits

DEWALT 12V MAX

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
20V MAX							
6	½ in Drill (General Purpose, 1,750 RPM)	¼ in Impact Driver	Circular Saw; Full-Size Reciprocating Saw	Flashlight, Oscillating Tool	Kit Bag	(2) 2 Ah	**784K51**
12V MAX							
2	⅜ in Drill (Subcompact Premium, 1,500 RPM)	Impact Driver (3,600 in-lb)	—	—	Kit Bag	(2) 2.0 Ah	**55AC81**
2	⅜ in Drill (Subcompact, 1,500 RPM)	Impact Driver (950 in-lb)	—	—	Contractor Bag	(2) 1.5 Ah	**6CXN9**

6CXN2

DEWALT 12V MAX

Cordless Subcompact Drills

- ⅜" keyless chuck
- Max. speed 1500 RPM
- 2 speed settings
- 15 clutch settings and drill mode
- Built-in light

Max. Power	Cordless Tool Kit Contents	Battery Capacity	Item No.
Subcompact			
189 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.3 Ah	6CXN2
Subcompact Premium			
250 UWO	(1) Bare Tool	—	55AC83
250 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	55AC82

6CXN3

DEWALT 12V MAX

Cordless Impact Wrenches

- Keyless chuck
- 1 speed
- Built-in light

Drive Size	Fastening Torque	Breakaway Torque	Battery Capacity	Cordless Tool Kit Contents	Free Speed	Item No.
Compact, Friction Ring Retainer						
⅜ in Square	96 ft-lb	100 ft-lb	(2) 1.3 Ah	(1) Bare Tool, (2) Batteries, (1) Charger	2,450 RPM	6CXN3
	125 ft-lb	200 ft-lb	—	(1) Bare Tool	2,850 RPM	55AC87
			(2) 2.0 Ah	(1) Bare Tool, (2) Batteries, (1) Charger		55AC86
Compact, Hog Ring						
½ in	250 ft-lb	400 ft-lb	—	(1) Bare Tool	2,850 RPM	783RW6
⅜ in						783RW7

Bare Tool
60HH84

DEWALT 12V MAX

Cordless Compact Reciprocating Saws

- Variable speed
- Adjustable shoe
- Brushless motor
- Straight stroke

Stroke Length	Max. Strokes per Minute	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: Yes				
⅝ in	2,800	(1) Bare Tool	—	60HH84
⅝ in	2,800	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	60HH85

DEWALT 12V MAX

Cordless Ratchet

- Brushless motor
- 250 RPM free speed

Description	Fastening Torque	Head Width	Cordless Tool Kit Contents	Item No.
¼ in Square Ball Detent	40 ft-lb	⅞ in	(1) Bare Tool	787WD0

DEWALT 12V MAX

Cordless Screwdrivers

55AC88

- Pistol grip
- ¼" hex drive
- Adjustable clutch collar
- Variable speed
- Light duty
- Built-in light

Free Speed	Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: Yes				
1,100 RPM	Not Rated	(1) Bare Tool	—	55AC89
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	55AC88
Brushless Motor: No				
1,050 RPM	160 UWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.3 Ah	6CXN5

6CXN4

DEWALT 12V MAX

Cordless Impact Drivers

- ¼" hex drive
- Pistol grip
- Built-in light

Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Brushless Motor: No						
950 in-lb	2,450 RPM	3,400	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.3 Ah	1	6CXN4
Brushless Motor: Yes						
1,450 in-lb	2,850 RPM	3600	(1) Bare Tool	—	3	55AC85
	2,850 RPM	3600	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	3	55AC84

DEWALT 12V MAX

Cordless Circular Saw

- ⅜" Arbor
- Left blade side
- 1 ¾" Max. cutting depth @ 0°
- 1 ¼" Max. cutting depth @ 45°
- 0° to 50° Left bevel range
- Direct drive
- 3,600 RPM Max. blade speed

Blade Dia.	Cordless Tool Kit Contents	Battery Capacity	Item No.
5 ⅜ in	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	784K56

DEWALT 12V MAX

Cordless Band Saw

- 14/18 TPI Blade
- Brushless motor

Rectangular Cutting Capacity	SFPM Range	Cordless Tool Kit Contents	Item No.
1 ¾ in	0 to 380	(1) Bare Tool	783RX0

DEWALT 12V MAX

Cordless Flashlight

- LED lamp
- Fixed focus
- Bare tool

Lumens	Includes	Item No.
130 lm	Kick Stand, Magnet	6CXN1

Milwaukee MX FUEL

Batteries & Charger

Battery Capacity	Mfr. Model	Item No.	
MX Fuel Batteries			
3 Ah	MXFCP203	55JL77	
6 Ah	MXFXC406	55JL75	*

** One-Key wireless tool tracking*

For Battery Voltage	Charger Class	Mfr. Model	Item No.
Single-Port Charging			
MX FUEL	Standard	MXFC	55JL74

Milwaukee MX FUEL

Cordless Backpack Concrete Vibrators

- 2 ½" Radius of vibration
- 11,000 RPM vibrations per min.
- Brushless motor

Shaft Length	Head Diameter	Cordless Tool Kit Contents	Item No.
21 ft	2 ½ in	(1) Bare Tool, (1) Charger, (1) Remote, (2) Battery Pack	61UU87
Accessories			
		1½" Concrete Vibrator Head, 14 in L	61UU83

Folded

Milwaukee MX FUEL

Cordless Jobsite Light

- Adjustable LED light heads
- Motorized mast
- Wheeled base
- 8" wheels
- ONE-KEY compatible

Lumens	Focus	Light Output Mode	Lamp Life	Max. Height	Item No.
27,000 lm	Fixed	High / Medium / Low	50,000 hr	120 in	55JL66

Milwaukee MX FUEL

Cordless Coring Drill

- Brushless motor
- ONE-KEY compatible

Coring Capacity in Concrete	Anti-Kickback Clutch Type	Battery Capacity	Cordless Tool Kit Contents	Base Length	Base Width	Item No.
Coring Drill Kit						
6 in	Yes	(2) 3.0 Ah	(1) Bare Tool, (2) Batteries, (1) Charger	—	—	787YV6
Coring Drill with Stand						
6 in	Yes	(2) 3.0 Ah	(1) Bare Tool, (2) Batteries, (1) Charger, (1) Stand	18 in	9 ¼ in	55JL68
Coring Drill Base						
			Overall Height 36 ⁵¹⁄₆₄ in			55JL69

Milwaukee MX FUEL

Cordless Handheld Concrete Saw

- Instant start
- Uses 12" or 14" blades
- Onboard water connection
- ONE-KEY compatible
- Available saw cart supports saw during use

Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
14 in	Wet/Dry	5 in	5,350 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	6 Ah	60YT56
Cut-Off Saw Cart						
Gravity Feed Water Tank, M18 Tank Adapter Bracket						55JL71

Milwaukee MX FUEL

Cordless Breaker Hammer

- 1 ⅛" hex drive
- Brushless motor
- ONE-KEY compatible
- Weighs 63.9 lb.

Impact Energy	Blows per Minute	Handle Type	Includes	Item No.
Breaker Hammer				
50 ft-lb	0 to 1,300	T-Handle	(3) Chisels	55JL72
Hammer Cart				
Overall Length (In.) 19 ⅜ in				55JL73

Milwaukee MX FUEL

Cordless Drain Cleaning Machines

- 200 ft. capability in 3" to 8" dia. pipe
- CABLE-DRIVE automatic feed and retract
- RAPID-STOP prevents cable binding
- Brushless motor
- ONE-KEY compatible

Fully enclosed drum contains mess. Drain Cleaning Machine 55JL80 has POWERTREDZ lift assist that directs battery power to the treads to ease transport of the machine up and down stairs or in and out of service vehicles with just one person.

Drain Line I.D. Size Range	Max. Run	Operating Speed	Maximum Drum Capacity	Includes	Features	Item No.
Drain Cleaning Machine						
2 in to 8 in	200 ft	200 RPM	100 ft of ¾ in Cable	Charger, CP203 Battery Pack	Integrated Drum Brake	55JL79
2 in to 8 in	200 ft	200 RPM	100 ft of ¾ in Cable	Charger, CP203 Battery Pack	Integrated Drum Brake, POWERTREDZ(TM) Lift Assist	55JL80

Item	Material	Size	Item No.
Accessories			
Drain Cleaning Cable	Galvanized Corrugated Tube with PVC Covering	¾ in x 6 ½ ft	55JL78
Load Wheel	Steel	15 in W x 15 in D x 7 in H	55JL81

Multi-Port Simultaneous Charging 32NN05

Multi-Port Sequential Charging 40K996

M18 REDLITHIUM 494D28

M18

Batteries & Chargers

- Lithium-ion batteries

For Battery Chemistry	No. of Ports	Charging Port Voltage	Charger Class	Mfr. Model	Item No.
Multi-Port Simultaneous Charging					
Li-Ion	2	(1) 12V, (1) 18V	Standard	48-59-1812	23Y581
		(1) 12V, (1) 18V	Rapid	48-59-1808	45LD79
	6	(3) 12V, (3) 18V	Rapid	48-59-1807	32NN05
Multi-Port Sequential Charging					
Li-Ion	6	(6) 18V	Standard	48-59-1806	40K996

Battery Capacity	Number of Batteries Included: 1 – Mfr. Model	1 – Item No.	2 – Mfr. Model	2 – Item No.
Batteries				
M18 REDLITHIUM HIGH OUTPUT				
6 Ah	48-11-1865	481Z44	48-11-1862	481Z45
12 Ah	48-11-1812	481Z42		—
M18 REDLITHIUM				
1.5 Ah	48-11-1815	2XKZ3	48-11-1811	38D761
2 Ah	48-11-1820	38D765		—
3 Ah	48-11-1835	494D23	48-11-1822	38D762
3 Ah		—	48-11-1837	494D24
8 Ah	48-11-1880	494D28		—
M18 REDLITHIUM XC				
3 Ah	48-11-1828	2PYZ8		—
4 Ah	48-11-1840	38D766		—
5 Ah	48-11-1850	35GJ99	48-11-1852	38XJ03
Battery & Charger				
M18 REDLITHIUM				
3 Ah	48-59-1835	494D25		—
8 Ah	48-59-1880	494D29		—
M18 REDLITHIUM XC				
3 Ah	48-59-1813	38XJ01		—
5 Ah	48-59-1850	38XH99		—

M18

Cordless Combo Kits

38W629

39RY18

12E733

23Y584

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
M18 REDLITHIUM							
2	½ in Drill (Compact, 1,800 RPM)	Impact Driver (1,500 in-lb)	—	—	Contractor Bag	(2) 1.5 Ah	2PYZ2
2	½ in Hammer Drill (General Purpose, 28,000 BPM)	—	Compact Reciprocating Saw	—	Contractor Bag	(1) 3.0 Ah	38W629
2	½ in Drill (Subcompact Premium, 1,800 RPM)	Impact Driver (1,600 in-lb)	—	—	Contractor Bag	(2) 2.0 Ah	488D94
2	½ in Hammer Drill (General Purpose, 31,500 BPM)	Impact Driver (1,600 in-lb)	—	—	Contractor Bag	(1) 2.0 Ah, (1) 4.0 Ah	488D95
2	½ in Hammer Drill (General Purpose, 31,500 BPM)	Impact Drivers (1,600 in-lb)	—	—	Contractor Bag	(2) 4.0 Ah	488D96
2	½ in Hammer Drill (General Purpose, 32,000 BPM)	Impact Driver (2,000 in-lb)	—	—	Kit Box	(2) 5.0 Ah	492N19
2	½ in Hammer Drill (General Purpose, 28,000 BPM)	Impact Driver (1,500 in-lb)	—	—	Contractor Bag	(2) 3.0 Ah	5GUW5
2	½ in Hammer Drill	¼ in Hex Impact Driver (2,000 in-lbs)	—	—	(1) Blow Molded Carrying Case	5.0Ah	794JL0
2	½ in Hammer Drill	¼ in Hex Hydraulic Driver (450 in-lbs)	—	—	(1) Blow Molded Carrying Case	5.0Ah	794JL1
3	½ in Drill (Compact, 1,800 RPM)	⅜ in Impact Wrench (167 ft-lb)	—	Work Light	Contractor Bag	(2) 1.5 Ah	39RY18
4	½ in Hammer Drill (General Purpose, 28,000 BPM)	Impact Driver (1,500 in-lb)	Full-Size Reciprocating Saw	Work Light	Contractor Bag	(1) 3.0 Ah	12E733
4	½ in Hammer Drill (General Purpose, 28,000 BPM)	Impact Driver (1,500 in-lb)	Compact Reciprocating Saw	Work Light	Contractor Bag	(2) 3.0 Ah	12E734
4	½ in Hammer Drill (General Purpose, 28,000 BPM)	—	Circular Saw (6½ in Dia.), Full-Size Reciprocating Saw	Work Light	Contractor Bag	(2) 3.0 Ah	4LER2
6	½ in Hammer Drill (General Purpose, 28,000 BPM)	Impact Driver (1,500 in-lb)	Angle Grinder (9,000 RPM), Circular Saw (6½ in Dia.), Full-Size Reciprocating Saw	Work Light	Contractor Bag	(2) 3.0 Ah	23Y584

M18

Cordless Pistol-Grip Drills

- ½" keyless chuck
- Brushless motor
- 2 Speeds
- Built-in light

Compact Bare Tool 22UT49

Compact Premium Bare Tool 492N12

Subcompact Premium Bare Tool 488D87

Max. Speed	Torque Range	Cordless Tool Kit Contents	Battery Capacity	Number of Clutch Settings	Item No.
Compact					
1,800 RPM	0 in-lb to 500 in-lb	(1) Bare Tool	—	17	22UT49
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	17	22UT50
Compact Premium					
2,000 RPM	25 in-lb to 90 in-lb	(1) Bare Tool	—	14	492N12 *
2,100 RPM	0 to 1400 in-lb	(1) Bare Tool	5.0Ah	16	794JK4
		(2) Batteries; (1) Charger	5.0Ah	16	794JK5
Subcompact Premium					
1,800 RPM	0 in-lb to 500 in-lb	(1) Bare Tool	—	18	488D87
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	18	488D88

** One-Key Bluetooth Tool and Equipment Tracker Included*

M18

Cordless Rotary Hammers

Pistol Grip 22UT76

D-Handle 48UT41

No Load RPM	Blows per Minute	Impact Energy	Battery Incl.	Handle Type	Capacity in Concrete	Mfr. Model	Item No.
SDS Plus Chuck Type							
Brushless Motor: No							
0 to 1300	0 bpm to 7,000 bpm	1.0 ft-lb	No	Pistol-Grip	⅝ in	2612-20	22UT76
Brushless Motor: Yes							
0 to 800 RPM	0 bpm to 4,600 bpm	3.6 ft-lb	(2) 481Z44	Pistol-Grip	4 in	2915-22DE	61UU49
		3.6 ft-lb	No	Pistol-Grip	4 in	2915-20	61UU47
0 to 1500	0 bpm to 4,400 bpm	1.7 ft-lb	No	D-Handle	1 in	2713-20	48UT41
SDS Max Chuck Type							
Brushless Motor: Yes							
0 to 380	0 bpm to 2,900 bpm	8.1 ft-lb	(2) 481Z42	L-Shape	½ in	2718-22HD	494F40
		8.1 ft-lb	No	L-Shape	½ in	2718-20	494F38
0 to 450	0 bpm to 3,000 bpm	5.1 ft-lb	(2) 494D28	Pistol-Grip	1 9/16 in	2717-22HD	48UT40
		5.1 ft-lb	No	Pistol-Grip	1 9/16 in	2717-20	48UT38
Accessories							
Dust Extractor, for Mfr. No. 2915-20 M18 FUEL 1 ⅛ in SDS Plus Rotary Hammer						2915-DE	61UU50

Milwaukee

One-Key Bluetooth Tool & Equipment Trackers

53GK35

Attach to tools with glue, screws, straps, or rivets and resist weather, water, dust and impact. Sync with the Milwaukee app to customize, track, and manage tools and equipment.

Number of Tags Included	Overall Width	Overall Length	Signal Range	Item No.
1	1 ⅞ in	2 ⅛ in	100 ft	**53GK35**
4	1 ⅞ in	2 ⅛ in	100 ft	**53GK36**
10	1 ½ in	1 ⅞ in	300 ft	**784P46**
10	1 ⅞ in	2 ⅛ in	100 ft	**53GK37**
50	1 ⅞ in	2 ⅛ in	100 ft	**53GK38**

Milwaukee **M18**

Cordless Mud Mixers

Bare Tool 419J56

- ½" keyless chuck
- Brushless motor
- Battery capacity 5.0Ah

No Load RPM	Max. Basket Diameter	Size	Max. Power	Includes	Item No.
550 RPM	8 ½ in	5 gallon buckets	15 gal	Chuck Key	**419J56**
					419J57

Milwaukee **M18**

Cordless Joist & Stud Right-Angle Drills

Bare Tool 60YT06

- Built-in light

Max. Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
1,500 RPM	(1) Bare Tool	—	**60YT06**
	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 6.0 Ah	**60YT07**

Milwaukee **M18**

Cordless Hammer Drills

22UT52

- ½" chuck
- Adjustable clutch

Maximum Speed	Blows per Minute	Maximum Working Torque	Battery Incl.	Battery Capacity	Cordless Tool Kit Contents	Item No.
Brushless Motor: No						
1,800 RPM	0 to 28,800, 0 to 7200	41.6 ft-lb	No	—	(1) Bare Tool	**22UT51**
	0 to 28,800, 0 to 7200	41.6 ft-lb	(2) 2XKZ3	1.5 Ah	(1) Bare Tool, (1) Charger, (2) Batteries	**22UT52**
	0 to 28,800, 0 to 7200	41.6 ft-lb	(2) 2PYZ8	3.0 Ah	(1) Bare Tool, (1) Charger, (2) Batteries	**22UT53**
Brushless Motor: Yes						
1,800 RPM	0 to 28,800, 0 to 8,800	60.4 ft-lb	No	—	(1) Bare Tool	**488D91**
	0 to 28,800, 0 to 8,800	60.4 ft-lb	38D766	4.0 Ah	(1) Bare Tool, (1) Charger, (2) Batteries	**488D92**
2,000 RPM	0 to 32,000	100 ft-lb	No	—	(1) Bare Tool	**492N14**
	0 to 32,000	100 ft-lb	38XJ03	5.0 Ah	(1) Bare Tool, (1) Charger, (2) Batteries	**492N15**
2,100 RPM	0 to 33,000	1,400 in-lb	—	5.0Ah	(1) Bare Tool	**794JK6**
	0 to 33,000	1,400 in-lb	—	5.0Ah	(2) Batteries, (1) Charger	**794JK7**

Milwaukee **M18**

Cordless Magnetic Drill Kits

48UT16

- Brushless motor
- 1 ½" Drilling capacity in steel
- 400 rpm - 690 rpm spindle speed range
- 5 ¾" drill travel

Battery Capacity	Cordless Tool Kit Contents	Item No.
(2) 8 Ah	(1) Bare Tool, (2) Batteries, (1) Charger	**48UT16**
(2) 8 Ah	(1) Bare Tool, (2) Batteries, (1) AC/DC Vehicle Charger	**48UT17**

6AWL2

M18 Milwaukee

Cordless Right-Angle Drills

- ⅜" chuck size
- Max. speed 1500 RPM
- 125 in.-lb. max. torque
- Built-in light

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	**6AWL2**
(1) Bare Tool	—	**6AWL4**

Milwaukee **M18**

Cordless Impact Drivers

¼" Hex Drive Size 22UT48

- ¼" Hex drive
- Straight drive
- Pistol grip
- Built-in light

M18 FUEL SURGE uses a brushless hydraulic motor to operate more quietly, more smoothly, and with less wear than a standard impact driver.

Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Brushless Motor: No						
1,500 in-lb	2,750 RPM	3,450	(1) Bare Tool	—	2	**22UT46**
				—	Continuous	**39RY17**
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2	**22UT48**
Brushless Motor: Yes						
2,000 in-lb	3,900 RPM	4,400	(1) Bare Tool	5.0Ah	4	**794JK8**
	3,600 RPM	4,300	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	Continuous	**492N18** *
	3,900 RPM	4,400	(2) Batteries; (1) Charger	5.0Ah	4	**794JK9**
SURGE Brushless Hydraulic Motor						
450 in-lb	3,000 RPM	4,000	(1) Bare Tool	—	4	**49JV01**
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	4	**49JV02**
				(2) 5.0 Ah	4	**49JV03**

** One-Key Bluetooth Tool and Equipment Tracker Included*

22UT59

22UT61

423K58

423K59

32NT23

Cordless Impact Wrenches

Milwaukee M18

- Built-in light
- Compact design

Drive Size	Extended Anvil Length	Fastening Torque	Breakaway Torque	Brushless Motor	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Number of Speed Settings	Item No.
Pistol Grip									
Friction Ring, Through Hole Retainer									
—	¾ in	1,000 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	1,800 RPM	4	**794JL6** *
Friction Ring Retainer									
—	⅜ in	250 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	800 RPM, 1,650 RPM, 2,400 RPM	4	**794JL8**
		550 ft-lb	600 ft-lb	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	1,250 RPM, 1,950 RPM, 2,575 RPM	4	**794JM1**
	½ in	250 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	800 RPM, 1,650 RPM, 2,400 RPM	4	**794JL9**
		550 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	1,250 RPM, 1,950 RPM, 2,575 RPM	4	**794JM2**
		1,000 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	550 RPM, 750 RPM, 1,400 RPM, 1,750 RPM	4	**794JL3**
		1,000 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	1,750 RPM	4	**794JL5** *
		—	1,100 ft-lb	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	1,800 RPM	4	**794JL7** *
⅜ in Square	—	167 ft-lb	167 ft-lb	No	(1) Bare Tool	1.5Ah or 3.0Ah	2,450 RPM	Continuous	**22UT59**
		167 ft-lb	167 ft-lb	No	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,450 RPM	Continuous	**22UT61**
		210 ft-lb	210 ft-lb	Yes	(1) Bare Tool	—	2,500 RPM	4	**44YY88** *
		210 ft-lb	210 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	2,500 RPM	4	**44YZ18** *
½ in Square		183 ft-lb	183 ft-lb	No	(1) Bare Tool	1.5Ah or 3.0Ah	2,450 RPM	Continuous	**22UT62**
		183 ft-lb	183 ft-lb	No	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,450 RPM	Continuous	**22UT63**
		220 ft-lb	220 ft-lb	Yes	(1) Bare Tool	—	2,500 RPM	4	**44YY85** *
		220 ft-lb	220 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	2,500 RPM	4	**44YZ04** *
		1,000 ft-lb	1,400 ft-lb	Yes	(1) Bare Tool	—	1,750 RPM	4	**408L69**
		1,000 ft-lb	1,400 ft-lb	Yes	(1) Bare Tool	—	1,750 RPM	4	**423K57** *
		1,000 ft-lb	1,400 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,750 RPM	4	**423K58** *
Pin Detent Retainer									
—	½ in	250 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	800 RPM, 1,650 RPM, 2,400 RPM	4	**794JM0**
		550 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	950 RPM, 1,250 RPM, 2,575 RPM	4	**794JM3**
		750 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah	750 RPM, 950 RPM, 1,500 RPM, 1,800 RPM	4	**794JL2**
		750 ft-lb	—	Yes	(1) Charger; (2) Batteries	(2) 5.0Ah		4	**794JL4** *
½ in Square	—	220 ft-lb	220 ft-lb	Yes	(1) Bare Tool	—	2,500 RPM	4	**44YY80** *
		220 ft-lb	220 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	2,500 RPM	4	**44YZ24** *
		250 ft-lb	250 ft-lb	Yes	(1) Bare Tool	—	2,400 RPM	4	**60YT18**
		750 ft-lb	1,100 ft-lb	Yes	(1) Bare Tool	—	1,800 RPM	4	**408L67**
		750 ft-lb	1,100 ft-lb	Yes	(1) Bare Tool	—	1,750 RPM	4	**423K55** *
Through Hole Retainer									
¾ in Square	—	1,200 ft-lb	1,500 ft-lb	Yes	(1) Bare Tool	—	1,800 RPM	4	**423K59** *
Right Angle									
Friction Ring Retainer									
⅜ in Square	—	60 ft-lb	60 ft-lb	No	(1) Bare Tool	—	2,250 RPM	2	**32NT22**
		60 ft-lb	60 ft-lb	No	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	2,250 RPM	2	**32NT23**

** One-Key Bluetooth Tool and Equipment Tracker Included*

53KJ96

M18 Milwaukee

Cordless Metal-Cutting Circular Saws

- Right side blade
- Direct drive

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Cordless Tool Kit Contents	Battery Capacity	Arbor Size	Item No.
5 ⅜ in, 5 ⅞ in	2 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	⅞ in	**53KJ96**
		(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	¾ in	**53KJ97**
8 in	2 9⁄16 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	⅝ in	**56GL14**
		(1) Bare Tool, (1) Battery, (1) Carrying Bag, (1) Charger	8 Ah	⅝ in	**56GL15**

M18 Milwaukee

Left Blade Side
45L183

Right Blade Side
54XX82

Cordless General Purpose Circular Saws

- Adjustable cutting depth
- Direct drive

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Cordless Tool Kit Contents	Battery Capacity	Arbor Size	Item No.
Left Blade Side							
6 ½ in	2 3⁄16 in	1 ⅝ in	0° to 50° Left	(1) Bare Tool	4 Ah	⅝ in	**45L182**
	2 ⅛ in	1 9⁄16 in	0° to 45° Left	(1) Bare Tool	6.0 Ah, 9.0 Ah	⅝ in	**5GUX5**
	2 3⁄16 in	1 ⅝ in	0° to 50° Left	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	⅝ in	**45L183**
	2 ⅛ in	1 9⁄16 in	0° to 50° Left	(1) Bare Tool, (1) Charger, (2) Batteries	3 Ah	⅝ in	**4ZA92**
Right Blade Side							
7 ¼ in	2 ½ in	1 ⅞ in	0° to 45° Right	(1) Bare Tool	6.0 Ah, 9.0 Ah	⅝ in	**54XX82**
	2 ½ in	1 ⅞ in	0° to 50° Right	(1) Bare Tool, (1) Battery, (1) Charger	12 Ah	⅝ in	**481Z35**

Milwaukee M18

Cordless Tool Cut-Off Machines

783A64

- 4,000 RPM Blade speed
- 5" Round cutting capacity @ 0°
- Metal primary saw application

Battery Capacity	Cordless Tool Kit Contents	Item No.
—	Bare Tool	783A65
12.0 Ah	Bare Tool, Battery, Charger	783A64

Milwaukee M18

Cordless Reciprocating Saws

Compact 4PKV6

Full-Size 32NN10

- 3000 max. strokes per min.
- Variable speed
- Vibration reduction

Stroke Length	Stroke Type	Cordless Tool Kit Contents	Battery Capacity	Adjustable Shoe	Pivoting Head	Item No.
Compact						
Brushless Motor: No						
¾ in	Straight	(1) Bare Tool	—	No	No	6FKP4
		(1) Bare Tool, (1) Battery, (1) Charger	3 Ah	No	No	4PKV6
Brushless Motor: Yes						
⅞ in	Straight	(1) Bare Tool	—	Yes	Yes	419J60
		(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	Yes	Yes	419J61
Full-Size						
Brushless Motor: No						
1 ⅛ in	Straight	(1) Bare Tool	—	No	Yes	32NN09
		(1) Bare Tool, (1) Battery, (1) Charger	3 Ah	No	Yes	32NN10
Brushless Motor: Yes						
1 ¼ in	Orbital	(1) Bare Tool	—	Yes	Yes	54XX84
		(1) Bare Tool, (1) Battery, (1) Charger	12 Ah	Yes	Yes	481Z40
	Straight	(1) Bare Tool	—	Yes	No	60YT08
		(1) Bare Tool, (1) Battery, (1) Charger	5 Ah	Yes	No	60YT09
		(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	Yes	No	60YT10

Milwaukee M18

Cordless Band Saws

Multi-Grip T-Handle 31MJ79

Blade Length	Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
D-Handle							
Brushless Motor: Yes							
35 ⅜ in	3 ¼ in x 3 ¼ in	3 ¼ in	0 to 540	Bare Tool	—	—	55ZK43
			0 to 540	Bare Tool, Charger, (2) Batteries	(2) 3.0 Ah	—	55ZK44
44 ⅞ in	5 in x 5 in	5 in	0 to 380	Bare Tool	—	5	55ZK41
			0 to 380	Bare Tool, Charger, (2) Batteries	(2) 5.0 Ah	5	55ZK42
Multi-Grip T-Handle							
Brushless Motor: Yes							
44 ⅞ in	5 in x 5 in	5 in	0 to 380	Bare Tool	4.0 Ah	2	31MJ78
			0 to 380	Bare Tool, Battery, Charger	5.0 Ah	2	31MJ79
			0 to 380	Bare Tool, Charger, (2) Batteries	(2) 5.0 Ah	2	31MJ80

Milwaukee M18

Cordless Table Saws

- ⅝" arbor
- Brushless motor
- Max. blade speed 6300 RPM
- 24 ½" max. cut width right of blade
- 12" max. cut width left of blade
- 3° right to 47° left bevel angle range
- 2 ½" max. cutting depth at 0°
- 1 ¾" max. cutting depth at 45°
- 12.0Ah battery capacity
- One-Key Bluetooth Tool and Equipment Tracker

481Z36

Blade Dia.	Cordless Tool Kit Contents	Item No.
8 ¼ in	(1) Bare Tool, (1) Battery, (1) Charger	481Z36
	(1) Bare tool	54XX83

Milwaukee M18

Cordless Miter Saws

10" Blade Dia. 49JU88

- ⅝" arbor
- Sliding cutting arm
- 48° left to 48° right bevel angle range

Miter Angle Range	Cordless Tool Kit Contents	Battery Capacity	Max. Blade Speed	Max. Cut Depth @ 0 Deg. Bevel	Max. Cut Width @ 45 Deg. Miter	Item No.
7 ¼ in Blade Dia.						
45° Left to 45° Right	(1) Bare Tool	—	5,000 RPM	2 3/16 in	5 ¾ in	419J62
	(1) Bare Tool, (1) Battery, (1) Charger	5 Ah				419J63
10 in Blade Dia.						
50° Left to 60° Right	(1) Bare Tool	—	4,000 RPM	3 ½ in	8 in	49JU88
	(1) Bare Tool, (1) Battery, (1) Charger	8 Ah				60YT03

Milwaukee M18

Cordless Angle Grinders

- ⅝"-11 Spindle size

Standard Head, Barrel Grip 61UU42

Wheel Dia.	Safety Features	Brushless Motor	(1) Bare Tool, (2) Batteries, (1) Charger Item No.	(1) Bare Tool Item No.
Standard Head, Barrel Grip				
Paddle, with Lock-On Switch Function				
4 ½ in	Adjustable Guard	No	4LER1	5GUY2
Paddle, without Lock-On Switch Function				
4 ½ in, 5 in	Adjustable Guard, Anti-Kickback Clutch	Yes	61UU18	—
	Adjustable Guard, Anti-Kickback Clutch, Brake	Yes	61UU42	61UU41
Standard Head, Rat Tail				
Trigger, with Lock-On Switch Function				
7 in, 9 in	Adjustable Guard, Anti-Kickback Clutch, Lock-Off Switch	Yes	—	54XX85

Cordless Jigsaws

Milwaukee M18

- T-shank blade
- Variable speed
- Brushless motor
- Orbital stroke
- 1" stroke length
- 800 to 3000 strokes per minute
- 45° left to 45° right bevel range

Cordless Tool Kit Contents	Battery Capacity	Item No.
Barrel Grip		
(1) Bare Tool	—	489P15
Top Handle		
(1) Bare Tool	—	489P13
(1) Bare Tool, (1) Battery, (1) Charger	5.0Ah	489P14

Top Handle Bare Tool 489P13

M18

Cordless Shears

- Speed range: 0 to 2900 spm
- 360° swivel
- 7⁄32" waste curl

Steel Capacity	Stainless Steel Capacity	Min. Radius	Cordless Tool Kit Contents	Item No.
Single Cut				
18 ga	20 ga	3 in	(1) Bare Tool, (2) Batteries, (1) Charger	32NN17
Double Cut				
14 ga	16 ga	7 in	(1) Bare Tool, (2) Batteries, (1) Charger	32NN15
18 ga	20 ga	6 in	(1) Bare Tool	32NN12
		6 in	(1) Bare Tool, (2) Batteries, (1) Charger	32NN13

M18

Cordless PEX Expansion Tools

- Expand ProPEX connections
- Auto-rotate mechanism delivers even PEX expansions

Capacity Tubing O.D.	Flare Type	Battery Included	Battery Capacity	Item No.
M18 ProPEX Expansion Tools				
3⁄8 in to 1½ in	ProPEX®	Battery Included	3.0 Ah	38EY30
3⁄8 in to 1½ in	ProPEX®	Bare Tool	No	6AWK4
M18 FORCE LOGIC Expansion Tools				
2 in to 3 in	—	Battery Included	9.0 Ah	484X16
PEX Press Tool Kit				
(2) M18(TM) REDLITHIUM Batteries, Pack, M18(TM), M12(TM) Multi-Voltage Charger, ½ in Viega Pureflow Jaw, ¾ in Viega Pure Flow Jaw, 1 in Viega Pure flow Jaw, Carrying Case				49EJ11
38D765 M18 REDLITHIUM(TM) 2.0Ah Battery Pack, 23Y581 M18(TM) and M12(TM) Multi-Voltage Charger, ½ in F1807 Crimp Jaw, ¾ in F1807 Pex Crimp Jaw, 1 in F1807 Pex Crimp Jaw				49EJ10
Carrying Case, Charger, Press Gauge, (2) Battery, (6) Jaw				788WJ0
PEX ProPEX Expander Kit				
1 ½ in M18(TM) ProPEX(R) Expansion Head, 1 ¼ in M18(TM) ProPEX(R) Expansion Head, 2 in ProPEX(R) Expander Head For M18 FUEL(TM) 2 in ProPEX(R) Expander, M18 FUEL(TM) 2 in ProPEX(R) Expander, M18(TM) and M12(TM) Multi-Voltage Charger, ProPEX(R) Expander Grease, Carrying Case, (2) M18(TM) REDLITHIUM(TM) XC5.0 Extended Capacity Battery Pack				787MH2

M18

Cordless Vacuums

- Washable wet/dry HEPA filter
- On-board hose

Vacuum Air Flow	Vacuum Capacity	Includes	Battery Incl.	Battery Capacity	Item No.
Portable Shop Vacuum					
Wet/Dry					
45 cfm	2 gal	6 ft Flexible Hose, Crevice Tool, Utility Nozzle, HEPA Filter	No	3 Ah	2CDC6
Dry					
40 cfm	¼ gal	4 ft Hose, (2) Extension Wands, Crevice Tool, Floor Tool, HEPA Filter	No	—	52WR81
Cordless Backpack Vacuum					
Dry					
55 cfm	1 gal	6 ft Flexible Hose, Crevice Tool, Dust Extractor Adapter, Floor Tool, HEPA Filter, Telescoping Extension Wand	No	9.0 Ah	484X11
55 cfm	1 gal	6 ft Flexible Hose, Crevice Tool, Dust Extractor Adapter, Floor Tool, HEPA Filter, Telescoping Extension Wand	45KM67	8 Ah	484X12

M18

Cordless Drain Cleaning Machine

- 1 ½" to 4" Drain line I.D. size Range
- Max. Run 100 ft.
- 300 RPM operating speed

Maximum Drum Capacity	Features	Includes	Item No.
100 ft of 3⁄8 in Cable, 75 ft of ½ in Cable	Fully Enclosed and Removable Drum, Holds Up to 100 ft of Cable	1 ½ in C-Cutter Attachment, 1 ½ in Spade Bit Attachment, 3⁄8 in x 75 ft Cable, Bare Tool, Battery Charger, Battery Pack, Medium Drop Head Attachment, Medium Funnel Head Attachment, Pin Key	792V02

M18

Cordless Knockout Tools

- 14 ga Max. stainless steel capacity

For Maximum Steel Thickness	Die Sizes included	Tool Weight	Battery Capacity	Cordless Tool Kit Contents	Item No.
4 in Punching Capacity in Mild Steel					
14 ga	½ to 2 in Dies	3.3 lb	(1) 2 Ah	(1) Bare Tool, (1) Battery, (1) Charger	44ZL88
	—	3.3 lb	(1) 2 Ah		44ZL92
6 in Punching Capacity in Mild Steel					
12 ga	—	7.1 lb	(2) 3 Ah	(1) Bare Tool, (2) Batteries, (1) Charger	31AD88
	(1) ¾ in Die; (1) 2 in Die; (1) 1 ¼ in Die; (1) 1 ½ in Die; (1) 1 in Die	7.1 lb	(2) 3 Ah		31AD89
	(1) 4 in Die; (1) 3 ½ in Die; (1) ¾ in Die; 3 in Die; (1) 2 ½ in Die; (1) 2 in Die; (1) 1 ¼ in Die; (1) 1 ½ in Die; (1) ½ in Die; (1) 1 in Die	7.1 lb	(2) 3 Ah		31AD90

M18

Cordless Orbital Sander

- Size: 5"
- Hook-and-loop pad
- 3⁄32" orbit dia.
- 12,000 orbits per min.
- 7000/12,000 no-load RPM

Battery Incl.	Battery Capacity	Includes	Item No.
No	3 Ah	(2) 80 Grit Sandpaper, Dust Canister, Universal Hose Adapter	483F35

M18

Cordless Electrical Wire & Cable Crimpers

SCISSOR HEAD, STRAIGHT HANDLE

- 6 ton max. crimping force
- W style die series
- 8 AWG to 350 kcmil aluminum lug capacity
- 8 AWG to 600 kcmil copper lug capacity

C-HEAD, PISTOL HANDLE

- 12 ton max. crimping force
- U style die series
- 8 AWG to 750 kcmil aluminum lug capacity
- 8 AWG to 750 kcmil copper lug capacity

Includes	Item No.
Scissor Head, Straight Handle	
(1) Battery Charger (48-59-1812), (1) Carabinier, (1) Crimping Jaw - 6T Fixed BG (49-16 BDG3), (1) Tool Storage - Utility Bucket Bag, (2) Batteries (48-11-1820)	45FD41
(1) Battery Charger (48-59-1812), (1) Carabinier, (1) Crimping Jaw - 6T Fixed O (48-16-0OD3), (1) Tool Storage - Utility Bucket Bag, (2) Batteries (48-11-1820)	45FD42
(1) Battery Charger (48-59-1812), (1) Carabinier, (1) Crimping Jaw - 6T Snub Nose (49-16-00D3), (1) Tool Storage - Utility Bucket Bag, (2) Batteries (48-11-1820)	45FD43
(1) Battery Charger (48-59-1812), (1) Carabinier, (1) Crimping Jaw - 6T Kearney (48-16-KEAR), (1) Tool Storage - Utility Bucket Bag, (2) Batteries (48-11-1820)	45FD44
(1) Battery Charger (2710-20), (1) Tool Storage - Carrying Case, (2) Batteries (48-11-1820)	45FD73
C-Head, Pistol Handle	
(1) Battery (48-11-1820), (1) Battery (48-11-1850), (1) Battery Charger (2710-20), (1) Carabinier (42-70-0027), (1) Tool Storage - Utility Bag (48-22-8279)	53RG07 *
(1) Battery (48-11-1820), (1) Battery (48-11-1850), (1) Battery Charger (48-59-1812), (1) Carabinier (42-70-0027), (1) Tool Storage - Carrying Case (48-55-2778)	53RG08 *

** One-Key Bluetooth Tool and Equipment Tracker Included*

M18

Cordless Polisher Kit

- 7" pad capacity
- Variable speed trigger
- 0 to 2200 no-load RPM
- 5⁄8" x 11" spindle thread size

Battery Incl.	Includes	Item No.
No	Backing Pad, Bail Handle with (2) Bolts, Screen Cover, Side Handle	49EG82

Milwaukee M18

Cordless Cable Cutters

- 6 ton max. operating force
- Brushless motor
- Automatic jaws

Cutting Cap./Material	Battery Incl.	Battery Capacity	Item No.	
M18 Copper & Aluminum				
1000 MCM Aluminum, 750 MCM Copper	38D765	2.0 Ah	45FD45	
Up to 1500MCM Copper 15kV Cable	35GJ99	5.0 Ah	53RG48	*
M18 Steel Cable Cutters				
477 Hen ACSR	38D765	2.0 Ah	45FD46	
½ in EHS Guy Wire, Up to 1590 Falcon ACSR	35GJ99	5.0 Ah	53RG45	*

** One-Key Bluetooth Tool and Equipment Tracker*

Milwaukee M18

Cordless Caulk Guns

- Applies up to 21 in. per minute

For Container Size	Cordless Tool Kit Contents	Battery Capacity	Item No.
Cartridge			
10 oz	(1) Bare Tool	—	6AWC4
	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	6AWC5
Sausage Pack			
20 oz	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	6AWC6

Milwaukee M18

Cordless Heat Guns

- Temperature range: 0° to 875°F
- Air volume 6.0 cfm
- Variable temperature settings

Temperature Settings	Cordless Tool Kit Contents	Item No.
Variable	(1) Bare Tool	408L71
Variable	(1) Bare Tool, (1) Battery	408L72

Milwaukee M18

Cordless Chainsaw

- 90 min. run time
- 150 cuts per charge
- Brushless motor
- Automatic chain oiler
- Anti-vibration handle
- 12.0Ah battery capacity

Bar Length	HP	Includes	Item No.
16 in	2.8 hp	16 in Oregon Bar, Battery Pack, Chain, Rapid Charger, REDLITHIUM(TM) High Output, Scrunch	481Z41

Milwaukee M18

Cordless Blowers

- Lock-on switch

Max. Air Flow	Max. Air Speed	Speed Control	Battery Included	Item No.
100 cfm	160 mph	3	Bare Tool	20JX71
450 cfm	120 mph	Variable	Bare Tool	437V38
450 cfm	120 mph	Variable	Battery Included	437V37

Milwaukee M18

Cordless Vibrators

- 1 in head dia.
- 4 in Radius of vibration
- 12,500 vibrations per min.
- Brushless motor

Shaft Length	Cordless Tool Kit Contents	Item No.
4 ft	(1) Bare Tool	787MH4
8 ft	(1) Bare Tool	787MH5

Milwaukee M18

Cordless Grease Guns

- 14 ½ oz. cartridge capacity
- 16 oz. bulk capacity
- 48" flexible hose
- 38 strokes per 1 oz. output
- 10 oz./min.
- Max. operating pressure 10,000 psi

Battery Incl.	Battery Capacity	Includes	Item No.
(2) 2XKZ3	1.5 Ah	(1) Bag, (1) Flex Hose, (1) High Pressure Coupler, (1) Shoulder Strap, (2) Batteries, Charger	45L188
2XKZ3		(1) Battery, (1) Flex Hose, (1) High Pressure Coupler, (1) Shoulder Strap, (1)Carrying Bag, Charger	45L187
No	—	(1) Flex Hose, (1) High Pressure Grease Coupler	45L189

Milwaukee M18

Cordless Nailers

Firing Mode	For Nail Gauge	For Nail Length Range	Cordless Tool Kit Contents	Battery Capacity	Item No.
Finish Nailer					
0° Adhesive Collation Strip					
Combination	16 ga	¾ in to 2 ½ in	(1) Bare Tool	—	49EN19
	18 ga	⅝ in to 2 ⅛ in			55MN08
	16 ga	¾ in to 2 ½ in	(1) Bare Tool, (1) Battery, (1) Charger	2.0 Ah	49EN20
	18 ga	⅝ in to 2 ⅛ in			55MN09
20° Adhesive Collation Strip					
Sequential	16 ga	1 ¼ in to 2 ½ in	(1) Bare Tool	—	787D07
34° Adhesive Collation Strip					
Sequential	15 ga	1 ¼ in to 2 ½ in	(1) Bare Tool	—	787D05
			(1) Bare Tool, (1) Battery Pack, (1) Battery Charger	2.0 Ah	787D06

Firing Mode	For Nail Shank Diameter	For Nail Length Range	Cordless Tool Kit Contents	Nail Cap.	Battery Capacity	Item No.
Framing Nailer						
21° Collation Strip						
Combination	0.113 in to 0.148 in	2 in to 3 ½ in	(1) Bare Tool	51	—	60RE86
			(1) Bare Tool, (1) Battery, (1) Charger		5.0 Ah	60RE87
30° Collation Strip						
Combination	0.113 in to 0.148 in	2 in to 3 ½ in	(1) Bare Tool	51	—	60RE88
			(1) Bare Tool, (1) Battery, (1) Charger		5.0 Ah	60RE89
Palm Nailer						
0°						
Sequential	0.080 in to 0.160 in	1 in to 3 ½ in	(1) Bare Tool	1	—	6AWD1
			(1) Bare Tool, (1) Battery, (1) Charger		1.5 Ah	6AWD0

Milwaukee M18

Cordless String & Hedge Trimmers

Line Dia.	Cutting Width	Shaft Length	Shaft Type	Run Time	Includes	Item No.
String Trimmer						
0.08 in	16 in	60 in	Straight	55 min	(1) XC6.0Ah Battery, (1) M18 & M12 Charger	60YT12

Bar Length	Battery Amperage	Blade Type	Max. Cutting Dia.	Run Time	Includes	Item No.
Hedge Trimmers						
24 in	9.0Ah	Double-Sided	¾ in	120 min	—	49JU96
					High Demand Battery, Rapid Charger	49JU95

45FD35

Milwaukee M18

Cordless Jobsite Radios

Features	Battery Incl.	Item No.
M18™ Jobsite Radios		
Customizable Equalizer and 10-Station Preset, On-Board Bottle Opener, Premium Speakers and 40 Watt Amplifier, Weather-Sealed Compartment	No	20JX70
Digital AM/FM Tuner with 10 Station Presets, Shock Absorbing End Caps and Metal Speaker Grills, Weather Sealed Auxiliary Compartment	No	45FD35
M18/M12 Jobsite Radios		
2 Passive Radiators Maximizes Clarity and Volume of Bass, Compatible with The M18 and M12 Systems Featuring Over 200 Tools, or Power with AC Adapter, Industry's Loudest, Clearest Sound System, Stream High Definition Music Wirelessly with Bluetooth From Over 100 ft	No	52WR82

Milwaukee M18

Cordless Transfer Pumps

- Self-priming pump
- 480 gph
- 7.5 gal. of water at 5 ft. of head
- 4 ½" dia.
- ¾" discharge port

49JV05

Battery Incl.	Battery Capacity	Includes	Item No.
2PYZ8	3.0Ah	M18™ 3.0Ah REDLITHIUM™ Extended Capacity Battery, M18™ & M12™ Multi-Voltage Charger, (2) Brass Fittings for Inlet and Outlet	49JV06
No	No Battery Included	(2) Inlet Brass Fitting, Outlet Brass Fitting	49JV05

Cordless Task Lights

Milwaukee M12 M18

- Broad beam flood lights illuminate wide areas
- Task lights mount on a stick or clamp

22MG94

Description	Lumens	Focus	Battery Included	Includes	Mfr. Model	Item No.
M12						
Cordless Underbody Light	1,200 lm	Flood	Bare Tool	—	2126-20	783FT7
Cordless Underbody Light Kit	1,200 lm	Flood	Battery Included	M12 4.0XC Battery (48-11-2402), M12 Charger (48-59-2401), M12 Undercarriage Light (2126-20)	2126-21XC	783FT8
Lantern/Flood Light	400 lm	Spot/Flood Combination Beam	Bare Tool	—	2362-20	32NM97
LED Underhood Light Bare Tool	1,350 lm	Adjustable	Bare Tool	—	2125-20	408L65
LED Underhood Light Kit	1,350 lm	Adjustable	Battery Included	Battery, Charger	2125-21XC	408L66
LED Worklight	100 lm	Fixed	Bare Tool	—	49-24-0146	2PYZ7
ROCKET Dual Power Tower Light	1,400 lm	Fixed	Bare Tool	—	2132-20	484X15
ROVER Flood Light	1,000 lm	Flood	Bare Tool	—	2364-20	49JU90
Stick Light	220 lm	Fixed	Bare Tool	—	2351-20	22MG94
M18						
Cordless Worklight	4,250 lm	Spot/Flood Combination Beam	Bare Tool	Hardwire Base, Remote Control	2123	783FT4
Cordless Worklight	4,250 lm	Spot/Flood Combination Beam	Bare Tool	12V DC Permanent Base, Carry Bag, Dash Mount, Lanyard, M18 Portable Base, Remote Control	2123-20	783FT5
Cordless Worklight	4,250 lm	Spot/Flood Combination Beam	Battery Included	M18 REDLITHIUM HIGH OUTPUT HD12.0 Battery Pack, 12V DC Permanent Base, Carry Bag, Dash Mount, M18 Portable Base, Rapid Charger, Remote Control	2123-21HD	783FT6
Lantern/Flood Light	700 lm	Spot/Flood Combination Beam	Bare Tool	—	2363-20	32NM98
LED Worklight	100 lm	Fixed	Bare Tool	—	2735-20	4PKW2
ROCKET Dual Pack Tower Light OneKey	5,400 lm	Adjustable	Bare Tool	Shoulder Strap	2120-20	419J66
ROCKET Dual Pack Tower Light OneKey	5,400 lm	Adjustable	Battery Included	Rapid Charger, Shoulder Strap, (2) M18 Redlithium High Output XC8.0 Battery (48-11-1880)	2120-22HD	419J67
ROCKET Tower Light	2,500 lm	Adjustable	Bare Tool	—	2131-20	481J05
ROCKET Tower Light	6,000 lm	Adjustable	Bare Tool	—	2136-20	60YR96
ROVER Flood Light	1,500 lm	Fixed	Bare Tool	—	2361-20	22MG95
ROVER™ Mounting Flood Light	1,500 lm	Adjustable	Bare Tool	—	2365-20	419J65
Search Light	600 lm to 1,250 lm	Spot/Flood Combination Beam	Bare Tool	—	2354-20	49JU93
Search Light Kit	600 lm to 1,250 lm	Spot/Flood Combination Beam	Battery Included	Extended Capacity Battery, Multi Voltage Charger, Shoulder Strap	2354-21	52WR72
Stick Light	300 lm	Fixed	Bare Tool	—	2352-20	32NM99
Utility Bucket Light	2,200 lm, 2,500 lm, 800 lm	Spot/Flood Combination Beam	Bare Tool	—	2122-20	49JU91

481J05

419J65

49JU93

49JU91

M18 Battery Powered 465X07

Milwaukee M18

Cordless Area Lights

- Workspace coverage
- Batteries not included

Description	Lumens	Lamp Life	Focus	Includes	Mfr. Model	Item No.
M18™ Battery Powered RADIUS™ Area Light						
Compact Site Light	1,000 lm, 4400 lm	50,000 hr	Fixed	Security Cable	2145-20	49JR05
Compact Site Light w/Flood Mode	1,000 lm, 2,200 lm	18 hr	Flood	—	2144-20	465X07
Compact Site Light w/ ONE-KEY™	1,000 lm, 4400 lm	50,000 hr	Fixed	Security Cable	2146-20	49ZW21
Site Light/Charger	9,000 lm	50,000 hr	Adjustable	Charger	2151-20	419J69
Site Light w/OneKey	9,000 lm	50,000 hr	Adjustable	Charger	2150-20	419J68

Milwaukee M18

Cordless Inflators

- Bare tool

Maximum Air Pressure	Hose Length	Item No.
150 psi	36 in	792YD3

Milwaukee M12

Personal Light

- Narrow, controllable beam

Description	Beam Distance	Battery Burn Time	Includes	Mfr. Model	Item No.
Handheld M12™ Worklights					
M12™ Spot Light	2,100 ft	Up to 10 hr	Lanyard	2353-20	45FD40

38D764

Single-Port Charging
2XKZ7

38D763

Multi-Port Simultaneous Charging
32NN05

Milwaukee M12

Batteries & Chargers

- No memory
- Lithium-ion batteries
- Battery fuel gauge

Battery Capacity	Number of Batteries Included 1 Mfr. Model	1 Item No.	2 Mfr. Model	2 Item No.
Battery				
M12 REDLITHIUM				
1.5 Ah	48-11-2401	**2XKZ6**	48-11-2411	**38D759**
2 Ah	48-11-2420	**38D763**		—
3 Ah	48-11-2430	**49JV07**		—
M12 REDLITHIUM XC				
3 Ah	48-11-2402	**4PKY2**	48-11-2412	**38D760**
4 Ah	48-11-2440	**38D764**		—
6 Ah	48-11-2460	**49JV08**		—
Battery & Charger				
M12 REDLITHIUM				
2 Ah	48-59-2420	**60RE93**		—

For Battery Chemistry	No. of Ports	Charging Port Voltage	Charger Class	Mfr. Model	Item No.
Single-Port Charging					
Li-Ion	1	(1) 12V	Standard	48-59-2401	**2XKZ7**
Multi-Port Simultaneous Charging					
Li-Ion	2	(1) 12V, (1) 18V	Standard	48-59-1812	**23Y581**
		(1) 12V, (1) 18V	Standard	48-59-1810	**53KK02**
	4	(4) 12V	Standard	48-59-1204	**39RY20**
	6	(3) 12V, (3) 18V	Rapid	48-59-1807	**32NN05**

794JK2

Milwaukee M12

Combo Kits

14G946

- Includes contractor bag

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Battery Capacity	Item No.
M12 REDLITHIUM						
2	⅜ in Drill (Subcompact, 1,500 RPM)	—	—	Oscillating Tool	(1) 1.5 Ah	**23Y582**
2	—	¼ in Screwdriver (500 RPM)	Compact Reciprocating Saw	—	(1) 1.5 Ah	**2PYX9**
2	—	Impact Driver (1,000 in-lb)	Compact Reciprocating Saw	—	(1) 1.5 Ah	**4LER4**
2	⅜ in Drill (Subcompact, 1,500 RPM)	Impact Driver (1,000 in-lb)	—	—	(2) 1.5 Ah	**12E731**
2	⅜ in Hammer Drill (General Purpose, 22,500 BPM)	Impact Driver (1,000 in-lb)	—	—	(2) 1.5 Ah	**12E732**
2	½ in Hammer Drill (General Purpose, 25,500 BPM)	Impact Driver (1,300 in-lb)	—	—	(1) 2.0 Ah, (1) 4.0 Ah	**423K53**
2	½ in Drill (Subcompact Premium, 1,700 RPM)	Impact Driver (1,300 in-lb)	—	—	(1) 2.0 Ah, (1) 4.0 Ah	**423K54**
2	½ in Hammer Drill	¼ in Hex Impact Driver (1,500 in-lbs)	—	(1) M12 Lithium-Ion Battery Charger (48-59-2401), (1) M12 REDLITHIUM CP2.0 Battery (48-11-2420), (1) M12 REDLITHIUM XC 4.0 Extended Capacity Battery Pack (48-11-2440)	2.0Ah, 4.0Ah	**794JK2**
4	⅜ in Drill (Subcompact, 1,500 RPM)	Impact Driver (1,000 in-lb)	Compact Reciprocating Saw	Work Light	(2) 1.5 Ah	**14G946**

Compact Premium Bare Tool
794JJ5

Subcompact
22UT56

Milwaukee M12

Cordless Pistol-Grip Drills

- Keyless chuck
- 2 speed settings
- Built-in light

Chuck Size	Max. Speed	Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Number of Clutch Settings	Item No.
Compact Premium						
½ in	—	—	(1) Bare Tool	2.0Ah, 4.0Ah	12	**794JJ5**
		—	(1) Battery; (1) Charger	2.0Ah, 4.0Ah	12	**794JJ6**
Subcompact						
⅜ in	1,500 RPM	275 in-lb	(1) Bare Tool	—	18	**22UT56**
		275 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	18	**22UT57**

55VT06

Milwaukee M12

Cordless Interchangable Chuck Pistol-Grip Drills

- Max. speed 1600 RPM
- Max. torque 300 in.-lb.
- 2 speed settings
- Built-in light

Four dedicated heads attach in 16 different positions.

Cordless Tool Kit Contents	Battery Capacity	Includes	Item No.
(1) Bare Tool	—	(1) ⅜ in Metal Chuck Attachment, (1) Belt Clip, (1) Contractor Bag, (1) Offset Attachment, (1) Right Angle Attachement	**55VT06**
(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	(1) ⅜ in Metal Chuck Attachment, (1) Belt Clip, (1) Contractor Bag, (1) Offset Attachment, (1) Right Angle Attachement	**55VT07**

M12

Cordless Screwdrivers

Pivot Handle
34G853

- ¼" keyless hex
- Reversible
- Variable speed
- Built-in light

Free Speed	Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Clutch Type	Number of Speed Settings	Item No.
Pistol Grip						
Brushless Motor: No						
500 RPM	175 in-lb	(1) Bare Tool	—	Positive	Continuous	5GUV9
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah			2CDC8
750 RPM	80 in-lb	(1) Bare Tool	—	Adjustable	2	5HXN0
		(1) Bare Tool, (2) Batteries, (1) Charger	(1) 1.5 Ah			5HXN2
1,500 RPM	275 in-lb	(1) Bare Tool	—			22UT44
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah			22UT45
Brushless Motor: Yes						
1,700 RPM	325 in-lb	(1) Bare Tool	—	Adjustable	2	34G847
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah			34G848
Pivot Handle						
Brushless Motor: No						
600 RPM	44 in-lb	(1) Bare Tool	—	Shut-off	2	34G853
		(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah			34G854
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah			34G855

M12

Cordless Rotary Hammers

22UT75

- SDS-plus chuck
- D-handle

No Load RPM	Blows per Minute	Battery Incl.	Capacity in Concrete	Core Bit Capacity	Solid Bit Capacity	Item No.
Brushless Motor: No						
0 to 800	0 bpm to 5,350 bpm	(2) 4PKY2	½ in	½ in	½ in	34K740
Brushless Motor: Yes						
0 to 900	0 bpm to 6,200 bpm	(2) 38D764	⅝ in	⅝ in	⅝ in	22UT75
		No	⅝ in	⅝ in	⅝ in	22UT74
Accessories						
1) Dust Box and Filter, (1) HAMMERVAC w/ Side Handle, (1) Large Diameter Nozzle, (1) Small Diameter Nozzle						61UU77
Dust Collector, w/2 Batteries, Charger, Replacement Nozzle, HEPA Filter and Carry Case						34K738

M12

Cordless Ratchets

¼" Square Drive
13G247

- Ball detent retainer
- Pistol grip

Free Speed	Head Width	Cordless Tool Kit Contents	Battery Capacity	Fastening Torque	Item No.
¼ in Square Drive					
Brushless Motor: No					
250 RPM	1 ⅛ in	(1) Bare Tool	—	30 ft-lb	13G248
	1 ⅛ in	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	30 ft-lb	13G247
Brushless Motor: Yes					
250 RPM	1 ⅛ in	(1) Bare Tool	—	40 ft-lb	55JC03
	1 ⅛ in	(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah	40 ft-lb	55JC04
⅜ in Square Drive					
Brushless Motor: No					
250 RPM	1 ⅛ in	(1) Bare Tool	—	35 ft-lb	13G250
	1 ⅛ in	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	35 ft-lb	13G249
Brushless Motor: Yes					
200 RPM	1 ⅝ in	(1) Bare Tool, (1) Charger, (2) Batteries	(2) 2.0 Ah	55 ft-lb	408L78
½ in Square Drive					
Brushless Motor: Yes					
175 RPM	1 ⅝ in	(1) Bare Tool, (1) Charger, (2) Batteries	(2) 2.0 Ah	60 ft-lb	408L80

45L186

794JK0

M12

Cordless Impact Drivers

- ¼" hex drive
- Pistol grip
- Built-in light

Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Brushless Motor: No						
1,000 in-lb	2,500 RPM	3,300	(1) Bare Tool	—	Continuous	45L185
			(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	Continuous	45L186
Brushless Motor: Yes						
450 in-lb	3,000 RPM	3,400	(1) Bare Tool	—	4	55EA16
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	4	55EA17
1,500 in-lb	3,600 RPM	4,000	(1) Bare Tool	2.0Ah	4	794JJ9
			(2) Batteries; (1) Charger	2.0Ah	4	794JK0

M12

Cordless Impact Wrenches

Pistol Grip
488F04

- Standard drive
- Compact design
- Built-in light

Drive Size	Fastening Torque	Breakaway Torque	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Item No.
In-Line, Friction Ring Retainer						
Brushless Motor: Yes						
½ in Square	220 ft-lb	200 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	3,000 RPM	56GL07
Pistol Grip, Friction Ring Retainer						
Brushless Motor: No						
¼ in Square	37.5 ft-lb	38 ft-lb	(1) Bare Tool	1.5Ah	2,500 RPM	20JX65
⅜ in Square	100 ft-lb	100 ft-lb	(1) Bare Tool	1.5Ah	2,500 RPM	45L194
	100 ft-lb	100 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	2,500 RPM	45L195
Brushless Motor: Yes						
¼ in Square	100 ft-lb	100 ft-lb	(1) Bare Tool	—	3,200 RPM	488D97
	100 ft-lb	100 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.0 Ah, (1) 4.0 Ah	3,200 RPM	488D98
⅜ in Square	117 ft-lb	117 ft-lb	(1) Bare Tool	—	2,650 RPM	34G869
	250 ft-lb	250 ft-lb	(1) Bare Tool	—	2,700 RPM	488D99
	250 ft-lb	250 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.0 Ah, (1) 4.0 Ah	2,700 RPM	488F01
½ in Square	250 ft-lb	250 ft-lb	(1) Bare Tool	—	2,700 RPM	488F02
	250 ft-lb	250 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.0 Ah, (1) 4.0 Ah	2,700 RPM	488F03
Pistol Grip, Pin Detent Retainer						
Brushless Motor: Yes						
½ in Square	250 ft-lb	250 ft-lb	(1) Bare Tool	—	2,700 RPM	488F04
	250 ft-lb	250 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.0 Ah, (1) 4.0 Ah	2,700 RPM	488F05
Right Angle, Friction Ring Retainer						
Brushless Motor: Yes						
⅜ in Square	220 ft-lb	220 ft-lb	(1) Bare Tool	—	3,000 RPM	56GL04
	220 ft-lb	220 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.0 Ah	3,000 RPM	56GL05
½ in Square	220 ft-lb	220 ft-lb	(1) Bare Tool	—	3,000 RPM	56GL08
	220 ft-lb	220 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	3,000 RPM	56GL09

Bare Tool
794JJ7

Cordless Hammer Drills

M12

Chuck Size	Drilling Capacity in Concrete	Drilling Capacity in Wood	Number of Clutch Settings	Maximum Working Torque	Blows per Minute	Cordless Tool Kit Contents	Battery Capacity	Item No.
General Purpose								
⅜ in	⅝ in	1 ⅛ in	20	22.9 ft-lb	0 to 22,500	(1) Bare Tool, (1) Charger, (2) Batteries	1.5 Ah	22UT55
Compact Premium								
½ in	⅜ in	1 ¼ in	12	400 in-lb	0 to 22,500	(1) Bare Tool	2.0Ah, 4.0Ah	794JJ7
	⅜ in	1 ¼ in	12	400 in-lb	0 to 22,500	(2) Batteries	2.0Ah, 4.0Ah	794JJ8

M12

Cordless Reciprocating Saws

⅝" Stroke
31MJ76

- 3000 max. spm
- Straight stroke
- Variable speed
- Pivoting head
- Vibration reduction
- Compact design

Cordless Tool Kit Contents	Battery Capacity	Item No.
½ in Stroke Length		
Brushless Motor: No		
(1) Bare Tool	—	5GUX7
(1) Bare Tool, (1) Battery, (1) Charger	1.5 Ah	5HXL5
⅝ in Stroke Length		
Brushless Motor: Yes		
(1) Bare Tool	4.0 Ah	31MJ76
(1) Bare Tool, (1) Battery, (1) Charger	4.0 Ah	31MJ77

M12

Cordless Band Saws

Bare Tool
24U092

- 1 ⅝" x 1 ⅝" rectangular cutting capacity
- 1 ⅝" round cutting capacity
- 280 SFPM
- 2 speeds
- D-handle

Blade Length	Cordless Tool Kit Contents	Battery Capacity	Item No.
27 in	Bare Tool	—	24U092
	Bare Tool, Battery, Charger	3.0 Ah	24U091

M12

Cordless Oscillating Tools

6CZA7

- 5000 to 20,000 orbits per min.

Oscillation Angle	Includes	Number of Batteries Included	Battery Capacity	Item No.
3.2 °	(1) Contractor Bag, (1) Sanding Pad, (1) Wood Cutting Blade, (5) Assorted Sanding Sheets	2	(1) 1.5 Ah	6CZA7
	(1) Adapter, (1) Contractor Bag, (1) Sanding Pad, (1) Wood Cutting Blade, (5) Assorted Sanding Sheets	1	(1) 1.5 Ah	38W628
	(1) Sanding Pad, (1) Wood Cutting Blade, (5) Assorted Sanding Sheets	0	—	6CZA6

M12

Cordless Rivet Tools

458T33

- 1 ½" stroke length
- 2000 lb. pulling force

Blind Rivet Dia. - Steel	Blind Rivet Dia. - Stainless Steel	Blind Rivet Dia. - Aluminum	Cordless Tool Kit Contents	Battery Capacity	Item No.
⅛ in	3/16 in	3/32 in, ⅛ in, 5/32 in, 3/16 in	(1) Bare Tool	—	458T32
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	458T33

M12

Cordless Cable Cutters

26X067

- Up to 150 cuts of 500 MCM copper per charge

Cutting Cap./Material	Battery Included	Battery Capacity	Item No.
1 3/16 in Communication Cable, 600 MCM Copper, 750 MCM Aluminum	4PKY2	3.0 Ah	26X067
	No	1.5 Ah to 4.0 Ah	26X068

M12

Cordless Circular Saws

39RY14

- 25/64" arbor
- Adjustable cutting depth
- 1 ⅝" max. cutting depth at 0°
- 1 ⅛" max. cutting depth at 45°
- 0° to 50° left bevel angle range
- Direct drive
- Max. blade speed 3600 RPM
- Left side blade

Blade Dia.	Cordless Tool Kit Contents	Battery Capacity	Item No.
5 ⅜ in	(1) Bare Tool	6.0 Ah, 9.0 Ah	39RY15
	(1) Bare Tool, (1) Battery, (1) Charger	4.0 Ah	39RY14

M12

Cordless Jigsaws

13G253

- T-shank blade
- Variable speed
- Straight stroke
- ¾" stroke length
- 0 to 2800 spm
- 45° left to 45° right bevel range
- Barrel grip

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool, (1) Battery, (1) Charger	1.5Ah	13G253
(1) Bare Tool	—	13G254

M12

Cordless Rotary Tools

6AWC8

- ⅛" collet
- 32,000 Variable speed RPM
- 1.5 Ah Battery capacity

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	6AWC8
(1) Bare Tool	—	6AWC9

M12

Cordless Staplers

Bare Tool
419J58

- ⅜" crown
- ¼" to 9/16" leg length
- Magazine capacity: 89
- T50 or equivalent staples recommended
- Combination firing mode

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool	—	419J58
(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	419J59

M12

Cordless Video Borescopes

2.7" Monitor Size
13G252

Observation Depth	Camera Size	Shaft Dia.	Recording	Includes	Item No.
2.7 in Monitor Size					
320 x 240 Pixel Resolution					
5cm	9.0 mm	0.35 in	—	Battery, Charger and Carrying Case, Hook, Inspection Scope, Magnet, Mirror Attachment	13G252
640 x 480 Pixel Resolution					
5cm	9.0 mm	0.35 in	—	Hook, Magnet, Mirror Attachments	13G251
5cm	9.0 mm	0.35 in	—	30 Minute Charger, and Mirror Attachments, Carrying Case, Hook, Inspection Scope, Magnet, Plumbing Ball Attachment, Red Lithium Battery	13G256
3.5 in Monitor Size					
640 x 480 Pixel Resolution					
4cm to Infinity	12.5 mm	0.39 in	Audio, Image, Video	4 GB SD Card, 9 ft. Inspection Camera, Battery Pack, Carrying Case, Charger, M-Spector Console, Manual, Micro USB Cable	40KJ37
Inspection Cameras					
3 ft	12.0 mm	0.49 in	Audio, Image, Video	3 ft. Inspection Camera, 4 GB SD Card, Battery Pack, Carrying Case, Charger, Manual, Micro USB Cable, Spector Console	40KJ38

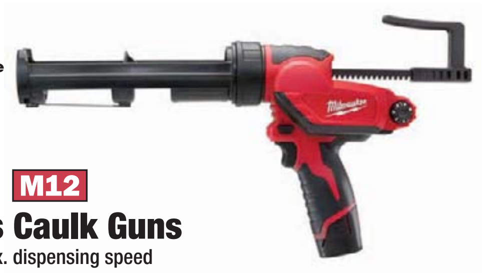
M12

Cordless Plumbing Tools

Pipe Shears
4PKV3

- M12 ProPEX Expansion Tools are specifically designed for use with Uponor ProPEX
- M12 Tube Cutters have a versatile cutting mechanism that automatically adjusts from ⅜" to 1" tubing
- M12 Plastic Pipe Shears cut in 3 sec. and delivers up to 200 cuts per charge

Cap. Tubing O.D. (in.)	Battery Included	Battery Capacity	Item No.
ProPEX Expansion Tools			
⅜ to 1	—	1.5 Ah	6CYZ9
	—		6CYZ8
Tube Cutters			
½ in to 1 ⅛ in	2XKZ6	1.5 Ah	2PYX8
	No	—	5GUY3
PVC and Plastic Tubing & Hose Cutter			
2⅜ in	2XKZ6	1.5 Ah	4PKV3
Plastic Pipe Shears			
2⅜ in	No	—	5GUV7



Cartridge
34G844

M12

Cordless Caulk Guns

- 29 in/min Max. dispensing speed

For Container Size	Frame Style	Cordless Tool Kit Contents	Item No.
Cartridge			
10 oz	Open	(1) Bare Tool	34G843
	Open	(1) Bare Tool, (1) Battery, (1) Charger	34G844
Sausage Pack			
20 oz	Enclosed	(1) Bare Tool, (1) Battery, (1) Charger	34G845

M12

Cordless Vacuum

- Up to 29 min. of running time with M12 XC 4.0Ah battery

Air Flow	Vacuum Capacity	Battery Incl.	Includes	Item No.
33 cfm	¼ gal	No	(1) Crevice Tool, (1) Extension Wand, (1) Filter Cartridge, (1) Utility Nozzle	32NN01

408L73

M12

Cordless Soldering Irons

- 750°F
- Reaches operational temperature in under 18 sec.
- Pivoting head
- 40 min. run time
- 90W

Includes	Item No.
(1) Chisel Tip, (1) Pointed Tip, (1) Soldering Iron	408L73
Carrying Case, Charger, Chisel Tip, Compact Battery Pack, Pointed Tip	408L74

32NN04

M12

Cordless Polisher/Sanders

- 3" pad size
- Variable speed trigger
- Polishing no-load RPM 0 to 2800
- Sanding no-load RPM 0 to 8300
- M9 x 0.75 spindle thread size

Battery Incl.	Battery Capacity	Includes	Item No.
(1) 2XKZ6, (1) 4PKY2	1.5 Ah, 3 Ah	(2) Batteries, Charger, 3 in Polishing Backing Pad, 2 in Sanding Backing Pad, Wool Pad, Yellow Foam Pad, White Foam Pad, Side Handle	32NN04
No	—	3 in Polishing Backing Pad, 2 in Sanding Backing Pad, Wool Pad, Yellow Foam Pad, White Foam Pad, Side Handle	32NN02

4PKY9

M12

Cordless Grease Guns

- Delivers up to 2.6 oz. per min.
- Max. operating pressure 8000 psi
- 14 ½ oz. cartridge capacity
- 16 oz. bulk capacity
- 36" flexible hose

Battery Incl.	Battery Capacity	Item No.
4PKY2	3 Ah	4PKY9
No	—	6FKP5

458T28

M12

Cordless Inflators

- Air pressure range 0 to 120 psi
- 26" hose with an all-brass Schrader chuck
- TrueFill auto shut-off technology protects from overfill and automatically senses speed of fill

Cordless Tool Kit Contents	Battery Capacity	Includes	Item No.
(1) Bare Tool	4.0 Ah	Ball Inflation Needle, Inflator Nozzle, Presta Chuck, Schrader Chuck	458T28
(1) Bare Tool, (1) Battery, (1) Charger	(1) 4.0 Ah	Ball Inflation Needle, Inflator Nozzle, Presta Chuck, Schrader Chuck	458T30

36GA16

M12

Cordless Radios

- Batteries not included

Features	Item No.
2.1A USB Charger for All Portable Electronic Devices, 3.5mm Aux In Port for Wired Playback (Cable Not Included), Battery Fuel Gauge, Bluetooth(R) Connectivity with Portable Electronic Devices From Up to 30 ft Away, Integrated Loop for Easy Hanging and Transport, Jobsite Durability with Rugged Overmold and Metal Speaker Grill to Withstand Drops, Water and Debris,, Premium Speaker with Integrated Bass Port Delivers Loud, Clear Sound At All Volumes	36GA16
12V DC port for Quick and Convenient Charging, Durable, Water and Debris Resistant	60YT20

33RT41

Makita 18V

Batteries & Chargers

For Battery Chemistry	No. of Ports	Charging Port Voltage	Charger Class	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Single-Port Charging						
Li-Ion, NiMH	1	(1) 18V	Rapid	6 Ah	DC18RC	**4NNN4**
		(1) 18V	Standard	3 Ah	DC18SE	**4NNN5**
Multi-Port Simultaneous Charging						
Li-Ion, NiMH	2	(1) 18V	Rapid	6 Ah	DC18RD	**38XU23**
Li-Ion	4	(4) 18V	Standard	3 Ah	DC18SF	**22UT98**

Battery Capacity	Number of Batteries Included: 1 — Mfr. Model	1 — Item No.	2 — Mfr. Model	2 — Item No.
LXT Batteries				
Li-Ion				
2 Ah	BL1820B	**33RT41**	BL1820B-2	**120Y62**
3 Ah	BL1830B	**4NNN2**	BL1830B-2	**6CFC2**
4 Ah	BL1840B	**33RT43**	BL1840B-2	**33RT44**
5 Ah	BL1850B	**38XU33**	BL1850B-2	**38XU34**
6 Ah	BL1860B	**52RW97**	BL1860B-2	**52RW98**
LXT Batteries & Charger				
Li-Ion				
2 Ah	BL1820BDC1	**48WA63**		—
4 Ah	BL1840BDC1	**48WA64**	BL1840BDC2	**56HU76**
5 Ah	BL1850BDC1	**48WA65**		—
MForce Battery				
NiMH				
2.6 Ah	193159-1	**4MGX1**		—

18V LXT
49XZ59

18V LXT
Brushless
52AZ24

LXT
54JK14

Makita 18V

Combo Kits

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
18V LXT							
2	—	¼ in Drywall Screwdriver (4,000 RPM)	—	Cut-Out Tool	Tool Bag	(2) 2.0 Ah	**54JK10**
2	—	¼ in Drywall Screwdriver (4,000 RPM)	—	Cut-Out Tool	Tool Bag	(2) 5.0 Ah	**453F88**
2	—	¼ in Drywall Screwdriver (4,000 RPM), Impact Driver (1,460 in-lb)	—	—	Tool Bag	(2) 2.0 Ah	**54JK11**
2	½ in Drill (General Purpose, 1,900 RPM)	Impact Driver (1,500 in-lb)	—	—	Tool Bag	(2) 3.0 Ah	**54XT24**
2	½ in Drill (Subcompact, 1,700 RPM)	⅜ in Impact Wrench (130 ft-lb)	—	—	Tool Bag	(2) 2.0 Ah	**54XJ25**
2	½ in Hammer Drill (Compact, 28,500 BPM)	Impact Driver (1,460 in-lb)	—	—	Tool Case	(2) 4.0 Ah	**49XZ59**
2	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,420 in-lb)	—	—	Tool Bag	(2) 2.0 Ah	**52AZ24**
2	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	—	—	Carrying Bag	(2) 4.0 Ah	**52HF55**
2	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	—	—	Tool Bag	(2) 5.0 Ah	**54XT23**
2	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	—	—	Tool Bag	(1) 5.0 Ah, (2) 4.0 Ah	**278W64**
2	½ in Hammer Drill (General Purpose, 30,000 BPM)	Impact Driver (1,460 in-lb)	—	—	Tool Case	(2) 4.0 Ah	**53KJ84**
3	—	—	—	(2) Flashlights, Radio	Tool Bag	(2) 5.0 Ah	**55FD42**
3	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	Circular Saw (6½ in Dia.)	—	Tool Bag	(1) 2.0, (1) 4.0 Ah	**54XJ53**
3	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	Full-Size Reciprocating Saw	—	Tool Bag	(2) 4.0 Ah	**52RW95**
4	½ in Hammer Drill (Compact, 28,500 BPM)	—	Circular Saw (6½ in Dia.), Full-Size Reciprocating Saw	Flashlight	Tool Bag	(2) 3.0 Ah	**53YK06**
4	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	Circular Saw (6½ in Dia.)	Flashlight	Tool Bag	(2) 5.0 Ah	**423J42**
4	½ in Hammer Drill (Compact, 30,000 BPM)	Impact Driver (1,500 in-lb)	Full-Size Reciprocating Saw	Flashlight	Tool Bag	(2) 5.0 Ah	**423J43**
6	½ in Hammer Drill (Compact, 28,500 BPM)	Impact Driver (1,460 in-lb)	Angle Grinder (8,500 RPM), Circular Saw (6½ in Dia.)	Flashlight	Tool Bag	(2) 3.0 Ah	**52YU78**
7	½ in Hammer Drill (Compact, 28,500 BPM)	Impact Driver (1,460 in-lb)	Angle Grinder (8,500 RPM), Circular Saw (6½ in Dia.), Full-Size Reciprocating Saw	Flashlight, Radio	Tool Bag	(2) 3.0 Ah	**54JK14**
7	½ in Hammer Drill (Compact, 28,500 BPM)	Impact Driver (1,460 in-lb)	Angle Grinder (8,500 RPM), Circular Saw (6½ in Dia.), Full-Size Reciprocating Saw	Blower, Flashlight	Tool Bag	(2) 3.0 Ah	**54XJ54**
15	½ in Hammer Drill (Compact, 28,500 BPM), ⅜ in Right Angle Drill	¼ in Drywall Screwdriver (4,000 RPM), Impact Driver (1,460 in-lb), ½ in Impact Wrench (325 ft-lb), ½ in Impact Wrench (170 ft-lb)	Angle Grinder (8,500 RPM), Circular Saws (5⅜ in, 6½ in Dia.), Full-Size Reciprocating Saw	(2) Flashlights, Blower, Radio, Rotary Hammer	Tool Bag	(4) 3.0 Ah	**453G30**

Subcompact 54XJ37

Compact 53KJ83

Cordless Pistol-Grip Drills

18V Makita

- Keyless chuck
- Built-in light
- 21+ drill mode chuck settings
- 2 Speed settings

Chuck Size	Max. Speed	Max. Torque	Brushless Motor	Cordless Tool Kit Contents	Battery Capacity	Item No.
Subcompact						
½ in	1,900 RPM	440 in-lb	Yes	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	**54XJ37**
Compact						
½ in	1,900 RPM	480 in-lb	No	(1) Bare Tool	—	**5WFP8**
	2,000 RPM	530 in-lb	Yes	(1) Bare Tool	—	**53KJ83**
		530 in-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	**53KJ82**
		530 in-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	**54PC59**
General Purpose						
½ in	2,000 RPM	750 in-lb	No	(1) Bare Tool	—	**40K995**

Keyless Drill Chuck Type 36JA02

Makita 18V

Cordless Right-Angle Drills

- ⅜" chuck
- Max. speed 1800 RPM
- 121 in.-lb. max. torque
- Built-in light

Cordless Tool Kit Contents	Battery Capacity	Item No.
Keyless Drill Chuck Type		
(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	**36JA01**
(1) Bare Tool	—	**36JA02**
Keyed Drill Chuck Type		
(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	**4NNJ8**
(1) Bare Tool	—	**5WFP6**

Brushless Hydraulic Motor Bare Tool 38XU31

Makita 18V

Cordless Impact Drivers

- Straight drive configuration
- Built-in light

38XU31 has a brushless hydraulic motor and uses Oil Impulse technology to decrease noise during operation.

Drive Size	Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Pistol Grip							
Brushless Hydraulic Motor							
¼ in Hex	355 in-lb	3,200 RPM	1,400, 2,200, 2,700	(1) Bare Tool	—	3	**38XU31**
Brushless Motor: No							
¼ in Hex	1,460 in-lb	2,900 RPM	3,500	(1) Bare Tool	—	1	**5WFT5**
Brushless Motor: Yes							
¼ in Hex	1,330 in-lb	2,800 RPM	1,200, 2,400, 3,200	(1) Bare Tool	—	3	**402D42**
	1,500 in-lb	3,400 RPM	3,600	(1) Bare Tool	—	1	**34G794**
		3,400 RPM	3,600	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	1	**52YW59**
		3,400 RPM	3,600	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1	**402D37**
		3,400 RPM	3,600	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	1	**436L82**
		3,600 RPM	1,100, 2,600, 3,800	(1) Bare Tool	—	3	**52YW63**
	1,550 in-lb	3,600 RPM	1,100, 2,600, 3,800	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	3	**54PC58**
	1,600 in-lb	3,600 RPM	1,100, 2,600, 3,600, 3,800	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	4	**54XT19**
		3,600 RPM	1,100, 2,600, 3,600, 3,800	(1) Bare Tool	—	4	**54XT20**
7/16 in Hex	590 ft-lb	1,800 RPM	1,800, 2,000, 2,200	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	3	**48XT74**
		1,800 RPM	1,800, 2,000, 2,200	(1) Bare Tool	—	3	**48XT81**
Right Angle							
Brushless Motor: No							
¼ in Hex	530 in-lb	2,000 RPM	3,000	(1) Bare Tool	—	1	**5WFT7**
		2,000 RPM	3,000	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	1	**4NNJ3**

Makita 18V

Cordless Screw Guns

- ¼" hex drive
- Reversible

Drywall Screw Gun 36HZ97

Free Speed	Cordless Tool Kit Contents	Battery Capacity	Built-In Light	Item No.
Drywall Screw Gun				
Brushless Motor: Yes				
4,000 RPM	(1) Bare Tool	—	Yes	**36HZ97**
4,000 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	Yes	**52YX09**
4,000 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	Yes	**54PC61**
Brushless Motor: No				
4,000 RPM	(1) Bare Tool	—	No	**5WFP9**
Metal Fastening Screw Gun				
Brushless Motor: Yes				
2,500 RPM	(1) Bare Tool	—	Yes	**53RH12**
2,500 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	Yes	**53RH11**

Makita 18V

Cordless Hammer Drills

- ½" chuck
- Adjustable clutch

Compact Bare Tool 5WFR2

Chuck Size	Drilling Capacity in Concrete	Drilling Capacity in Wood	Number of Clutch Settings	Maximum Working Torque	Blows per Minute	Cordless Tool Kit Contents	Battery Capacity	Item No.
Subcompact Premium								
Brushless Motor: Yes								
½ in	½ in	1 7/16 in	20 + Hammer	29.1 ft-lb	0 to 7500/0 to 25500	(1) Bare Tool, (1) Charger, (1) Tool Bag, (2) Batteries	2.0Ah	**379EJ8**
Compact								
Brushless Motor: No								
½ in	½ in	1 ½ in	21 + Hammer	40 ft-lb	0 to 28,500, 0 to 9,000	(1) Bare Tool, (1) Charger, (2) Batteries	2.0 Ah	**53YJ99**
	½ in	1 ½ in	21 + Hammer	40 ft-lb	0 to 28,500, 0 to 9,000	(1) Bare Tool	—	**5WFR2**
Compact Premium								
Brushless Motor: Yes								
½ in	½ in	1 ½ in	21 + Hammer	41.6 ft-lb	0 to 30,000, 0 to 7,500	(1) Bare Tool	—	**20UJ21**
	½ in	1 ½ in	21 + Hammer	41.6 ft-lb	0 to 30,000, 0 to 7,500	(1) Bare Tool, (1) Charger, (2) Batteries	5.0 Ah	**408L98**
	½ in	1 ½ in	21 + Hammer	41.6 ft-lb	0 to 30,000, 0 to 7,500	(1) Bare Tool, (1) Charger, (2) Batteries	2.0 Ah	**52YW65**
General Purpose								
Brushless Motor: No								
½ in	⅝ in	3 in	21 + Hammer	62.5 ft-lb	0 to 30,000, 0 to 6,000	(1) Bare Tool, (1) Charger, (2) Batteries	4.0 Ah	**39RY26**
	⅝ in	3 in	21 + Hammer	62.5 ft-lb	0 to 30,000, 0 to 6,000	(1) Bare Tool	—	**40K966**

Makita 18V

Cordless Impact Wrenches

- Built-in light

Compact Pistol Grip 4NNJ4

Bare Tool 60JL93

Compact Right Angle Bare Tool 5WFT8

Drive Size	Fastening Torque	Breakaway Torque	Brushless Motor	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Number of Speed Settings	Item No.
Compact Pistol Grip Friction Ring Retainer								
3/8 in Square	130 ft-lb	230 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2,400 RPM	2	453F89
	155 ft-lb	155 ft-lb	No	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,100 RPM	1	4NNJ4
½ in Square	240 ft-lb	430 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	3,200 RPM	4	60JL90
	740 ft-lb	1,180 ft-lb	Yes	(1) Bare Tool	—	1,800 RPM	3	48XT79
Pin Detent Retainer								
½ in Square	155 ft-lb	245 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2,400 RPM	2	55FD72
	170 ft-lb	170 ft-lb	No	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,100 RPM	1	4NNJ5
	240 ft-lb	430 ft-lb	Yes	(1) Bare Tool	—	3,200 RPM	4	60JL93
			Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	3,200 RPM	4	60JL92
	325 ft-lb	325 ft-lb	No	(1) Bare Tool	3.0Ah	1,600 RPM	1	5WFV1
Compact Right Angle Friction Ring Retainer								
3/8 in Square	44 ft-lb	44 ft-lb	No	(1) Bare Tool	3.0Ah	2,000 RPM	1	5WFT8
			No	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,000 RPM	1	4NNJ7
Full-Size Pistol Grip Friction Ring Retainer								
½ in Square	740 ft-lb	1,180 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,800 RPM	3	52YW97
¾ in Square	780 ft-lb	1,250 ft-lb	Yes	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,800 RPM	3	52YW96
Quick Change Hex Retainer								
7/16 in Hex	590 ft-lb	590 ft-lb	Yes	(1) Bare Tool	—	1,800 RPM	3	436L86

Makita 18V

Cordless General Purpose Circular Saws

- 5/8" arbor
- Adjustable cutting depth
- 2 ¼" max. cutting depth @ 0°
- 0° to 50° left bevel angle range
- Direct drive

Right Blade Side 5WFT1

Blade Dia.	Max. Cutting Depth @ 45 Deg.	Cordless Tool Kit Contents	Battery Capacity	Max. Blade Speed	Item No.
Left Blade Side					
6 ½ in	1 9/16 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	3,700 RPM	5WFT2
	1 9/16 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	3,700 RPM	5WFT3
	1 7/8 in	(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	3,700 RPM	52YW95
	6 ½ in	(1) Bare Tool	6.0 Ah, 9.0 Ah	5,000 RPM	48WA69
	6 ½ in	(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	5,000 RPM	52YX10
Right Blade Side					
5 3/8 in	1 3/8 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	3,600 RPM	5WFT1

Makita 18V

Cordless Jigsaws

- T-shank blade type
- Variable speed
- Orbital and straight stroke
- 1" stroke length
- 45° left to 45° right bevel range
- Top handle

Brushless Motor: No 4NNK1

Cordless Tool Kit Contents	Battery Capacity	Strokes per Minute	Item No.
Brushless Motor: No			
(1) Bare Tool, (1) Charger, (2) Batteries	(2) 3.0Ah	0 to 2600	4NNK1
(1) Bare Tool	—	0 to 2600	5WFR8
Brushless Motor: Yes			
(1) Bare Tool	—	800 to 3500	38XU29

D-Handle 5WFR4

Makita 18V SDS plus

Cordless Rotary Hammers

No Load RPM	Blows per Minute	Impact Energy	Battery Incl.	Brushless Motor	Capacity in Concrete	Stop Rotation	Item No.
D-Handle SDS Plus Chuck Type							
0 to 1200	0 bpm to 4,000 bpm	1.4 ft-lb	No	No	7/8 in	No	5WFR4
		1.5 ft-lb	38XU33	No	7/8 in	Yes	52YW77
		1.5 ft-lb	No	No	7/8 in	No	5WFR5
Pistol-Grip SDS Chuck Type							
0 to 950	0 bpm to 4,700 bpm	1.7 ft-lb	No	Yes	1 in	Yes	40K961
SDS Plus Chuck Type							
0 to 680	0 bpm to 4,800 bpm	0.88 ft-lb	No	Yes	3/8 in	No	436L84
0 to 950	0 bpm to 4,700 bpm	1.7 ft-lb	(2) 38XU33	Yes	1 in	Yes	54PC60
0 to 1350	0 bpm to 5,000 bpm	1.2 ft-lb	(2) 38XU33	Yes	11/16 in	Yes	55FD24 ‡
		1.2 ft-lb	No	Yes	11/16 in	Yes	55FD25 ‡

‡ Includes vacuum with HEPA filter.

7 ½" Blade Dia. 48PR17

Makita 18V

Cordless Miter Saws

- 5/8" arbor size
- Sliding
- Units require 2 18V batteries

7 ½" BLADE DIA.

- 47° left to 57° right miter angle range
- 45° left to 45° right bevel angle range
- 2 1/16" max. cut depth @ 0° bevel
- 8 3/8" max. cut width @ 45° miter
- Max. speed 5700 RPM

10" BLADE DIA.

- 60° left to 60° right miter angle range
- 48° left to 48° right bevel angle range
- 3 5/8" max. cut depth @ 0° bevel
- 8 ½" max. cut width @ 45° miter
- Max. speed 4400 RPM

Cordless Tool Kit Contents	Battery Capacity	Item No.
7 ½ in Blade Dia.		
(1) Bare Tool	—	48PR17
10 in Blade Dia.		
(1) Bare Tool, (1) Charger, (2) Batteries	5 Ah	453G28
(1) Bare Tool, (2) Batteries	5 Ah	453G29

Makita 18V Cordless Orbital Sander

- Size: 5"
- Hook-and-loop pad
- 3⁄32" orbit dia.

No Load RPM	Battery Incl.	Item No.
7000/9500/11,000	No	**40K959**

Makita 18V Cordless Die & Angle Grinders

401Z49

- Brushless motor
- 5⁄8-11 Spindle

Wheel Dia.	Safety Features	Battery Incl.	Cordless Tool Kit Contents	Brake Type	Item No.
Standard Head, Barrel Grip					
Paddle, without Lock-On Switch Function					
4 ½ in, 5 in	Adjustable Guard, Anti-Restart, Brake, Lock-Off Switch	—	(1) Bare Tool	Electronic	**401Z49**
5 in	Adjustable Guard, Anti-Restart, Brake, Lock-Off Switch	(2) 38XU33	(1) Bare Tool, (2) Batteries, (1) Charger	Electronic	**401Z50**
Slide, with Lock-On Switch Function					
4 ½ in, 5 in	Adjustable Guard, Anti-Restart	(2) 38XU33	(1) Bare Tool, (2) Batteries, (1) Charger	None	**401Z47**
	Adjustable Guard, Anti-Restart	—	(1) Bare Tool	None	**401Z46**
	Adjustable Guard, Anti-Restart, Brake	No	(1) Bare Tool	Electronic	**401Z48**

LXT Nibbler
Bare Tool
45L122

LXT Shear
Bare Tool
5WFR7

Cordless Sheet Metal Nibbler & Cordless Shear Makita 18V

Shear Style	Steel Capacity	Stainless Steel Capacity	Min. Radius	Cordless Tool Kit Contents	Item No.
LXT Nibbler					
—	16 ga	18 ga	1 ¾ in	(1) Bare Tool	**45L122**
LXT Shear					
Double Cut	18 ga	20 ga	1 in	(1) Bare Tool	**5WFR7**

Makita 18V Cordless Blowers

44YV60

- Bare tool
- Variable speed control

Max. Air Flow	Max. Air Speed	Item No.
155 cfm	208 mph	**20KR58**
473 cfm	120 mph	**44YV60**

Makita 18V Worklights & Radios

420C74

- Batteries not included

Description	Lumens	Special Features	Battery Pack Replacement	Item No.
Cordless Worklights				
Wide Area Lamp	610 lm	Built-In USB, Rubberized Soft Grip	4NNN2	**49EK24**
Wide Area Lamp	120 lm, 240 lm	—	4NNN2 and 4NNP2	**34G804**
LED w/ Pivot Head	200 lm	—	4NNN2	**40K964**

Features	Item No.
Jobsite Radios	
Auxiliary Port, Bluetooth(R), Clock Settings, FM Mono/Stereo, Illuminated Buttons, MP3 Compatible, Snooze Button, Volume Control	**420C74**

Makita 18V Cordless Oscillating Tools

24N062

- 6000 to 20,000 Oscillations per minute
- Accessory free tool change

Oscillation Angle	Brushless Motor	Includes	Number of Batteries Included	Battery Capacity	Item No.
3.2 °	No	(1) 1 ¼ in Plunge Blade (BiM) 14TPI (A-95255), (1) 120 Grit Sandpaper (A-95532-1), (1) 180 Grit Sandpaper (A-95548-1), (1) Multi-Tool Adapter (196271-6), (1) Multi-Tool Adapter (313249-6), (1) Sanding Pad, Multi-Tool, TM3000C, LXMT (A-95423), (1) Tool Case	2	(2) 3.0 Ah	**34G805**
	No	(1) 1 ¼ in Plunge Blade (BiM) 14TPI (A-95255), (1) Multi-Tool Adapter (196271-6), (1) Multi-Tool Adapter (313249-6)	0	—	**24N062**

Makita 18V Cordless Cut-Out Tool

Collet Size	Adjustable Depth Guide	Cordless Tool Kit Contents	Item No.
⅛ in, ¼ in	Yes	(1) Bare Tool	**36HZ99**

Makita 18V Cordless Caulk Guns

Bare Tool
20UJ23

- 66 in/min. Max. dispensing speed

For Container Size	Frame Style	Cordless Tool Kit Contents	Item No.
Cartridge			
10 oz	Open	(1) Bare Tool	**20UJ22**
	Open	(1) Bare Tool, (1) Battery, (1) Charger	**52YW87**
29 oz	Enclosed	(1) Bare Tool, (1) Battery, (1) Charger	**52YW98**
Sausage Pack, Cartridge			
20 oz	Enclosed	(1) Bare Tool	**20UJ23**
	Enclosed	(1) Bare Tool, (1) Battery, (1) Charger	**52YW83**

Makita 18V Cordless Planer

Cutting Depth	Cutting Width	No Load RPM	Battery Included	Item No.
0 to 5⁄64 in	3 ¼ in	14,000 RPM	No	**34G798**

53HY13

Makita 18V Cordless Vacuums

Vacuum Capacity	Includes	Battery Incl.	Battery Capacity	Item No.
Cordless Upright Vacuum				
1⁄16 gal	Battery, Charger, Ivory Extension Attachment, Floor Nozzle, Crevice Nozzle, Pre-Filter, Cloth Filter	Yes	—	**14F055**
1⁄16 gal	(1) White Extension Attachment, (1) Floor Nozzle, (1) Crevice Nozzle, (1) Pre-Filter, (1) Cloth Vacuum Filter	No	1.5 Ah, 3 Ah	**5WFP4**
Robotic Vacuum				
⅝ gal	(2) Batteries, Boundary Tape, Charger, Standard Filte, Wireless Remote Control	38XU33	5.0 Ah	**53HY12**
⅝ gal	Boundary Tape, Standard Filter, Wireless Remote Control	No	—	**53HY13**

55FD36

55FD37

Makita 12V

Cordless Combo Kits

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
12V CXT							
2	3/8 in Drill (Compact, 1,700 RPM)	Impact Driver (970 in-lb)	—	—	Tool Bag	(2) 1.5 Ah	**55FD34**
2	3/8 in Drill (Compact, 1,700 RPM)	Impact Driver (970 in-lb)	—	—	Tool Case	(2) 2.0 Ah	**55FD35**
2	3/8 in Drill (Compact, 1,700 RPM)	—	Circular Saw (3 3/8 in Dia.)	—	Tool Bag	(2) 2.0 Ah	**55FD36**
4	3/8 in Drill (Compact, 1,700 RPM)	Impact Driver (970 in-lb), 3/8 in Impact Wrench (103 ft-lb)	—	Flashlight	Tool Bag	(2) 1.5 Ah	**55FD37**

Makita 12V

Cordless Impact Drivers

- 1/4" hex drive
- Built-in light

Pistol Grip Bare Tool 48XT82

Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
Pistol Grip						
Brushless Motor: No						
970 in-lb	2,600 RPM	3,500	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	1	**48XT69**
		3,500	(1) Bare Tool	—	1	**48XT82**
Brushless Motor: Yes						
1,200 in-lb	3,000 RPM	1,600, 3,900	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2	**52YW52**
		1,600, 3,900	(1) Bare Tool	—	2	**52YW53**
Right Angle						
530 in-lb	2,000 RPM	3,000	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	1	**420C79**

48XT83

Makita 12V

Cordless Reciprocating Saws

- 3300 max. strokes per min.
- Straight stroke
- 1/2" stroke
- Variable speed
- Adjustable shoe
- Compact design

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool	—	**48XT83**
(1) Bare Tool, (1) Charger, (2) Batteries	2 Ah	**48XT70**

Makita 12V

Batteries & Chargers

4NNN1

4NNN3

Battery Capacity	Number of Batteries Included 1: Mfr. Model	1: Item No.	2: Mfr. Model	2: Item No.
Batteries				
1.5 Ah	BL1014	**4NNN1**		—
2 Ah	BL1021B	**52KE43**	BL1021B-2	**53KJ89**
2.6 Ah	193157-5	**4MGW9**		—
4 Ah		—	BL1041B-2	**53KJ90**
Battery & Charger				
2 Ah	BL1021BDC1	**53YK01**		—

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Charger			
120V AC	7.2V and 12V max CXT Li-Ion Batteries	DC10WB	**4NNN3**
120V AC	12V Max CXT Li-Ion Batteries	DC10WD	**46AD64**

Makita 12V

Cordless Pistol-Grip Drills

Bare Tool 52RX02

- 3/8" keyless chuck
- 250 in.-lb. max torque
- 2 speed settings
- 20+ drill mode clutch settings
- Compact design
- Built-in light

Max. Speed	Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: Yes				
1,500 RPM	280 in-lb	(1) Bare Tool	—	**52RX02**
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	**408L88**
Brushless Motor: No				
1,700 RPM	250 in-lb	(1) Bare Tool	—	**55FD39**
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	**55FD38**

Makita 12V

Cordless Impact Wrenches

54XT12

- Friction ring retainer
- Compact design
- Built-in light

Drive Size	Fastening Torque	Breakaway Torque	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Number of Speed Settings	Item No.
Pistol Grip							
Brushless Motor: No							
1/4 in Square	44 ft-lb	90 ft-lb	(1) Bare Tool	—	2,600 RPM	1	**54XT13**
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2,600 RPM	1	**54XT12**
Brushless Motor: Yes							
3/8 in Square	120 ft-lb	210 ft-lb	(1) Bare Tool	—	2,400 RPM	2	**55FD33**
			(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2,400 RPM	2	**55FD32**
Right Angle							
Brushless Motor: No							
3/8 in Square	44 ft-lb	44 ft-lb	(1) Bare Tool	—	2,000 RPM	1	**420C82**

Makita 12V

Cordless Circular Saws

52AZ26

- 5/16" arbor
- Direct drive
- Max. blade speed 1500 RPM
- Adjustable cutting depth
- 1" max. cutting depth @ 0°
- 5/8" max. cutting depth @ 45°
- 0° to 45° right bevel angle range

Blade Dia.	Cordless Tool Kit Contents	Battery Capacity	Item No.
3 3/8 in	(1) Bare Tool	6.0 Ah, 9.0 Ah	**52AZ26**
	(1) Bare Tool, (1) Charger, (2) Batteries	2 Ah	**48XT71**

Scan. Order. Done.
Details on page A1.

BOSCH 18V

Batteries & Chargers

- Lithium-ion battery chemistry

55JE14
49WL53

Battery Capacity	Number of Batteries Included: 1 — Mfr. Model	Item No.	2 — Mfr. Model	Item No.
18V SlimPack Batteries				
2 Ah	BAT612	**22DK20**	BAT612-2PK	**19TR97**
CORE18V Batteries				
4 Ah	GBA18V40	**55EX99**	—	
8 Ah	GBA18V80	**55EY01**	—	
CORE18V Battery and Charger				
4 Ah	—		GXS18V-11N25	**55JE14**

For Battery Chemistry	No. of Ports	Charging Port Voltage	Charger Class	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Single-Port Charging						
Li-Ion	1	(1) 14.4V/18V	Rapid	6 Ah	BC1880	**49WL53**

BOSCH 18V

Cordless Pistol-Grip Drills

55JD93

- 1/2" keyless chuck
- Brushless motor
- 2 speed settings
- Anti-kickback clutch
- Compact design
- Built-in light

Max. Speed	Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Number of Clutch Settings	Item No.
1,700 RPM	480 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	20 + Drill Mode	**446P32**
1,900 RPM	535 in-lb	(1) Bare Tool	—	20 + Drill Mode	**462R95**
2,100 RPM	755 in-lb	(1) Bare Tool	—	25 + Drill Mode	**462R96**
		(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	25 + Drill Mode	**55JD93**

Bare Tool
45MW63

197MV6

BOSCH 18V

Cordless Impact Drivers

- Straight drive
- 3 speeds
- Built-in light

Drive Size	Max. Torque	Free Speed	Impacts per Minute	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: No						
7⁄16 in Hex	500 ft-lb	1,900 RPM	2,000	(1) Bare Tool	—	**45MW63**
Brushless Motor: Yes						
¼ in Hex	1,800 in-lb	3,400 RPM	4,000	(1) Bare Tool	—	**55JE16**
	1,800 in-lb	3,400 RPM	4,000	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	**662X48**
½ in Square, ¼ in Hex	1,600 in-lb	2,800 RPM	3,600	(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah	**499K52**
	1,800 in-lb	3,400 RPM	4,200	(1) Bare Tool, (1) Battery, (1) Charger	(1) 4.0 Ah	**197MV3**
	1,800 in-lb	3,400 RPM	4,200	(1) Bare Tool	—	**197MV4**
	1,800 in-lb	3,400 RPM	4,200	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	**197MV6**

BOSCH 18V SDS plus

Cordless Rotary Hammers

780U16

- SDS-plus chuck
- 2 ⅝" core bit capacity

Maximum Speed	Blows per Minute	Impact Energy	Capacity in Concrete	Includes	Item No.
Soft-Grip					
1,800 RPM	0 bpm to 5100 bpm	1.5 ft-lb	—	(1) Auxiliary Handle, (1) Depth Gauge, (1) GBH18V-21 18V Brushless SDS-plus Bulldog ¾ in Rotary Hammer	**794J87**
D-Handle					
500 RPM	0 bpm to 2,900 bpm	4.3 ft-lb	1 ¼ in	Auxiliary Handle	**61DD25**
—	0 to 4,350 bpm	1.9 ft-lb	1 in	(2) 18V CORE18V Lithium-Ion 8.0 Ah PROFACTOR Performance Batteries, Auxiliary Handle, Carrying Case, Charger, Depth Gauge	**780U16**

462R99

BOSCH 18V

Cordless Combo Kits

- Includes carrying bag

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Battery Capacity	Item No.
2	½ in Hammer Drill (Compact, 28,500 BPM)	Impact Driver (1,800 in-lb)	—	—	(2) 4.0 Ah	**108CF5**
2	½ in Drill (Compact Premium, 1,900 RPM)	Impact Driver (1,800 in-lb)	—	—	(2) 4.0 Ah	**108CF4**
2	½ in Drill (General Purpose, 1,700 RPM)	Impact Driver (1,400 in-lb)	—	—	(2) 2.0 Ah	**462R99**
4	½ in Drill (Compact, 1,700 PRM)	Impact Driver (1,600 in-lb)	Compact Reciprocating Saw	Work Light	(2) 2.0 Ah	**462T06**

BOSCH 18V

Cordless Interchangeable Chuck Drill

- Max. speed 1900 RPM
- Max. torque 535 in.-lb.
- 2 speed settings
- Brushless motor
- Built-in light

Includes ½" keyless metal chuck, ¼" hex bit holder with quick release, right-angle attachment, and offset-angle attachment.

Max. Torque	Max. Power	Cordless Tool Kit Contents	Battery Capacity	Item No.
535 in-lb	573 UWO	(1) Bare Tool, (1) Battery, (1) Charger	(1) 4.0 Ah	**56ED13**

BOSCH 18V

Cordless Impact Wrenches

Bare Tool
61DD31

- Fastening torque 500 ft.-lb.
- Breakaway torque 500 ft.-lb.
- Free speed 1900 RPM

Drive Size	Cordless Tool Kit Contents	Battery Capacity	Item No.
Standard Pistol Grip			
Friction Ring Retainer			
¾ in Square	(1) Bare Tool	—	**61DD31**
Quick Change Hex Retainer			
7⁄16 in Hex	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 4.0 Ah	**55JE06**

BOSCH 18V

Cordless Hammer Drills

Bare Tool
462R94

- ½" keyless chuck

No Load RPM	Blows per Minute	Max. Torque	Battery Incl.	Battery Capacity	Item No.
0 to 480/0 to 2100	0 to 31,500	755 in-lb	No	—	**462R94**
0 to 600/0 to 1900	0 to 28,500	535 in-lb	No	—	**462R93**
0 to 1900	0 to 28,500	535 in-lb	55EX99	4.0 Ah	**55JD91**
0 to 2100	0 to 31,500	755 in-lb	55EX99	4.0 Ah	**55JD92**

BOSCH 18V

Cordless Oscillating Tool

- 8000 to 20,000 oscillations per min.
- Brushless motor
- Accessory free tool change
- Bare tool

Oscillation Angle	Includes	Cordless Tool Kit Contents	Item No.
2.8 °	(1) 1 ¼ in Plunge Blade, (1) Accessory Box	(1) Bare Tool	54EF61

54EF80

45MW58

BOSCH 18V

Cordless Jobsite Lights and Radio

Item	Base Style	Light Output Mode	Lumens	Item No.
Floodlight	Swivel	High	1,900 lm	54EF80
Rechargeable Worklight	Hook	High	300 lm	423N75
LED Worklight	Floor Stand with Handle	High / Medium / Low	42 lm	48XY50
Jobsite Radio	AM/FM Radio with 20 FM and 10 AM Presets, Bluetooth Connectivity Up to 150 ft, Equalizer Customization, Four-Way Power Outlets, Four-Way Speakers and Subwoofer, Illuminated LCD Display, Weather and Dust Resistant			45MW58

BOSCH 12V

Batteries & Chargers

462R88

- Lithium-ion batteries

Battery Capacity	Mfr. Model	Item No.
	Number of Batteries Included: 1	
12V MAX Batteries		
2 Ah	BAT414	22DK17
3 Ah	GBA12V30	462R87
6 Ah	GBA12V60	462R88
12V MAX Battery & Charger		
2 Ah	GXS12V-01N12	55JE04

55JE03

Charger Input Voltage	For Use With	Mfr. Model	Item No.
Battery Charger			
120V AC	Bosch 12V Batteries: 22DK17, Mfr. No. BAT414	GAL12V-20	55JE03

BOSCH 18V

Cordless Jigsaw

- Top Handle
- T-shank blade
- Variable speed
- Orbital stroke
- 1" stroke length
- 45° left to 45° right bevel range

Cordless Tool Kit Contents	Strokes per Minute	Item No.
(1) Bare Tool	0 to 2700	35GR09

BOSCH 18V

Cordless Angle Grinders

49WL54

- Standard head
- Barrel grip
- 4 ½" wheel dia.
- Bare tool

Safety Features	Brushless Motor	Includes	Item No.
Slide, with Lock-On Switch Function			
Anti-Restart, Lock-Off Switch, Tether Capable	No	Grinding Disc, Vibration Control Handle, Wheel Guard	49WL54
Adjustable Guard, Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch, Tether Capable	Yes	Vibration Control Auxiliary Handle, Wheel Guard	54ZT74
Paddle, with Lock-On Switch Function			
Anti-Kickback Clutch, Anti-Restart, Lock-Off Switch, Tether Capable	Yes	Grinding Disc, Vibration Control Handle, Wheel Guard	462R84

BOSCH 18V

Cordless Planer

- Bare tool
- Counterbalanced blade system
- Chip ejection button

Cutting Depth	Cutting Width	No Load RPM	Item No.
0 to 5/64 in	3 ¼ in	14,000 RPM	34G798

BOSCH 12V

Cordless Pistol-Grip Drills

5EEW6

- ⅜" keyless chuck
- 2 speed settings
- 20 chuck settings
- Anti-kickback clutch
- Built-in light

Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Item No.
265 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	5EEW6
300 in-lb	(1) Bare Tool	—	55JE01

BOSCH 12V

Cordless Combination Kits

No. of Tools	Included Drills	Included Fastening Tools	Case Included	Battery Capacity	Item No.
2	⅜ in Drill (Compact, 1,300 RPM)	Impact Driver (930 in-lb)	Contractor Bag	(2) 2.0 Ah	19TT04
2	⅜ in Hammer Drill (19,500 BPM)	Impact Driver (930 in-lb)	Contractor Bag	(2) 2.0 Ah	19TT06
2		Impact Driver (930 in-lb), Screwdriver	Carrying Bag	(2) 2.0 Ah	4WLH7

19TT04

780U13

BOSCH 12V

Cordless Screwdrivers

- Pistol grip
- ¼" hex drive
- 1300 RPM free speed
- Adjustable clutch
- Reversible
- Variable speed
- 2 speed settings
- Built-in light

Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: No			
265 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	5EEW5
Brushless Motor: Yes			
300 in lb	(1) Bare Tool	2.0Ah	780U13
	(2) Batteries; (1) Charger		780U14

BOSCH 12V

Cordless Hammer Drills

- Keyless chuck
- 2.0Ah battery capacity

Chuck Size	No Load RPM	Blows per Minute	Max. Torque	Battery Included/ Bare Tool	Battery Incl.	Item No.
⅜ in	0 to 380/0 to 1300	0 to 19,500	265 in-lb	Battery Included	(2) 22DK17	19TT41

BOSCH 12V

Cordless Reciprocating Saw

- 3000 max. strokes per min.
- Variable speed
- 9/16" stroke
- Straight stroke
- Vibration reduction
- Compact design

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool, (1) Battery, (1) Charger	2 Ah	19TT42

¼" Chuck Size
423N73

BOSCH 12V

Cordless Interchangeable Chuck Pistol-Grip Drills

- Keyless chuck
- 20+1 position adjustable chuck
- 2 speed settings
- 2.0Ah battery capacity
- Built-in light

Max. Speed	Max. Torque	Cordless Tool Kit Contents	Includes	Item No.
¼ in Chuck Size				
Brushless Motor: No				
1,300 RPM	265 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) Keyless Chuck Attachment, (1) Locking Bit Holder Attachment, (1) Offset Angle Attachment, (1) Right Angle Attachment	423N73
Brushless Motor: Yes				
1,750 RPM	300 in-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) Carrying Bag, (1) Keyless Chuck Attachment, (1) Locking Bit Holder Attachment, (1) Offset-Angle Attachment, (1) Right-Angle Attachment	56ED15

¼" Hex Drive Size
6YHR3

BOSCH 12V

Cordless Impact Drivers

- Straight drive
- Pistol grip
- 2600 RPM free speed
- 3100 impacts per min.
- Built-in light

Max. Torque	Cordless Tool Kit Contents	Battery Capacity	Number of Speed Settings	Item No.
¼ in Hex Drive Size				
Brushless Motor: No				
930 in-lb	(1) Bare Tool	—	—	780U15
	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	1	6YHR3
Brushless Motor: Yes				
975 in-lb	(1) Bare Tool	—	2	784GZ4
	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah		49WL57
⅜ in Square Drive Size				
Brushless Motor: Yes				
85 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.0 Ah	2	49WL59

BOSCH 12V

Cordless Vacuum

- Bare tool

Vacuum Capacity	Includes	Item No.
¼ gal	(1) Crevice Nozzle, (1) Exact-Fit Insert Tray, (1) Micro Filter	36WH89

Ingersoll Rand 20V

20V Batteries & Chargers

- Lithium-ion batteries

For Battery Chemistry	Charging Port Voltage	Charger Class	Mfr. Model	Item No.
Single-Port Charging				
Li-Ion	(1) 12V/20V	Standard	BC1121	**401R80**

Battery Capacity	Number of Batteries Included 1	
	Mfr. Model	Item No.
IQV20 Batteries		
2.5 Ah	BL2012	**48KT05**
5 Ah	BL2022	**48KT06**

Charger 401R80

48KT05

Ingersoll Rand 20V

20V Cordless Combination Kit

- Contractor bag included

No. of Tools	Included Drills	Included Fastening Tools	Battery Capacity	Item No.
IQV20 Battery				
2	½ in Drill (General Purpose, 1,800 RPM)	½ in Impact Wrench (780 ft-lb)	(2) 5.0 Ah	**20UJ14**

Compact, Friction Ring Retainer 493F32

Compact, Pin Detent Retainer 55NJ47

Full-Size, Friction Ring Retainer 21VK53

20V Cordless Impact Wrenches

- Built-in light

Ingersoll Rand 20V

Drive Size	Fastening Torque	Breakaway Torque	Cordless Tool Kit Contents	Battery Capacity	Free Speed	Number of Speed Settings	Item No.
Compact							
Brushless Motor: Yes							
⅜ in Square	365 ft-lb	550 ft-lb	(1) Bare Tool, (2) Battery, (1) Charger, (1) Bag	(1) 2.5 Ah, (1) 5.0 Ah	2,100 RPM	—	**52CM08**
Compact, Friction Ring Retainer							
Brushless Motor: No							
⅜ in Square	170 ft-lb	170 ft-lb	(1) Bare Tool	—	1,850 RPM	Continuous	**33UH03**
	170 ft-lb	170 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.5 Ah	1,850 RPM	Continuous	**33UH04**
	180 ft-lb	180 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.5 Ah	1,850 RPM	Continuous	**33UH05**
½ in Square	160 ft-lb	160 ft-lb	(1) Bare Tool	1.5Ah	1,900 RPM	Continuous	**19TG39**
	160 ft-lb	160 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 1.5 Ah	1,900 RPM	Continuous	**19TG40**
	170 ft-lb	170 ft-lb	(1) Bare Tool	—	1,850 RPM	Continuous	**33UH06**
	170 ft-lb	170 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.5 Ah	1,850 RPM	Continuous	**33UH07**
	175 ft-lb	175 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	1,900 RPM	Continuous	**19TG41**
	180 ft-lb	180 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 2.5 Ah	1,850 RPM	Continuous	**33UH08**
	780 ft-lb	780 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	1,900 RPM	Continuous	**21VK54**
	780 ft-lb	780 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	1,900 RPM	Continuous	**24K079**
Brushless Motor: Yes							
⅜ in Square	295 ft-lb, 365 ft-lb	400 ft-lb, 550 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.5Ah, (1) 5.0Ah	2,100 RPM	4	**784P21**
	365 ft-lb	550 ft-lb	(1) Bare Tool	—	2,100 RPM	4	**784P20**
½ in Square	295 ft-lb, 365 ft-lb	400 ft-lb, 550 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(1) 2.5Ah, (1) 5.0Ah	2,100 RPM	4	**784P23**
	365 ft-lb	550 ft-lb	(1) Bare Tool	—	2,100 RPM	4	**784P22**
	1,000 ft-lb	1,000 ft-lb	(1) Bare Tool	—	1,900 RPM	2	**493F31**
	1,000 ft-lb	1,500 ft-lb	(1) Bare Tool, (1) Battery, (1) Charger	(1) 3.0 Ah	1,900 RPM	2	**493F29**
	1,000 ft-lb	1,500 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 5.0 Ah	1,900 RPM	2	**493F30**
	1,000 ft-lb	1,000 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	1,900 RPM	2	**493F32**
Compact, Pin Detent Retainer							
Brushless Motor: Yes							
⅜ in Square	365 ft-lb	400 ft-lb	(1) Bare Tool	—	2,100 RPM	Continuous	**52CM05**
	365 ft-lb	550 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,100 RPM	Continuous	**55NJ48**
½ in Square	365 ft-lb	400 ft-lb	(1) Bare Tool	—	2,100 RPM	Continuous	**52CM06**
	365 ft-lb	550 ft-lb	(1) Bare Tool	—	2,100 RPM	Continuous	**55NJ47**
	365 ft-lb	550 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	2,100 RPM	Continuous	**55NJ49**
	1,000 ft-lb	1,500 ft-lb	(1) Bare Tool	—	1,900 RPM	2	**493F33**
	1,000 ft-lb	1,500 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	1,900 RPM	2	**55NJ54**
¾ in Square	1,500 ft-lb	1,500 ft-lb	(1) Bare Tool	—	1,900 RPM	2	**55NJ51**
	1,500 ft-lb	1,500 ft-lb	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 3.0 Ah	1,900 RPM	2	**55NJ52**
Full-Size, Friction Ring Retainer							
Brushless Motor: No							
½ in Square	780 ft-lb	780 ft-lb	(1) Bare Tool	—	1,900 RPM	Continuous	**21VK53**

Ingersoll Rand **20V**

20V Cordless Pistol-Grip Drill

- ½" keyless chuck
- Continuous speed
- 1800 RPM max. speed
- 700 in.-lb. max. torque
- 15+ drill clutch settings

Cordless Tool Kit Contents	Item No.
(1) Bare Tool	22MC26

⅜" Square Drive
Bare Tool
22MC20

Ingersoll Rand **20V**

20V Cordless Ratchets

- 225 Free Speed RPM
- 1 ⅝" head width
- 54 ft.-lb. fastening torque
- Ball detent retainer
- Straight handle design

Cordless Tool Kit Contents	Battery Capacity	Item No.
⅜ in Square Drive		
(1) Bare Tool	1.5Ah	22MC20
(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah	22MC21
(1) Bare Tool, (1) Charger, (2) Batteries	(2) 2.0 Ah	22MC22
½ in Square Drive		
(1) Bare Tool	1.5Ah	22MC23
(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah	22MC24
(1) Bare Tool, (1) Charger, (2) Batteries	(2) 2.0 Ah	22MC25

Ingersoll Rand **12V**

12V Cordless Combination Kit

No. of Tools	Included Drills	Included Fastening Tools	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
IQV12						
4	⅜ in Drill (Compact, 1,600 RPM)	Impact Driver (75 ft-lb), ¼ in Ratchet (260 RPM)	Sander	Tool Bag	(2) 2.0 Ah	401R84

Ingersoll Rand **20V**

20V Cordless Impact Drivers

- ¼" hex drive
- 160 ft.-lb. max. torque
- Free speed 1900 RPM
- 2800 impacts per minute
- Straight drive
- Continuous speed
- Pistol grip
- Built-in light

19TG33

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool	—	19TG33
(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.5 Ah	19TG34
(1) Bare Tool, (2) Battery, (1) Charger	(2) 2.5 Ah	19TG35

Ingersoll Rand **12V**

12V Battery & Charger

- Lithium-ion battery

IQV12
20UJ09

Charger
401R80

Battery Capacity	Mfr. Model	Item No.
	Number of Batteries Included	
	1	
IQV12		
2 Ah	BL1203	20UJ09

For Battery Chemistry	Charging Port Voltage	Charger Class	Mfr. Model	Item No.
Single-Port Charging				
Li-Ion	(1) 12V/20V	Standard	BC1121	401R80

22MC21

12V Cordless Ratchets

Ingersoll Rand **12V**

- 1 ⅛" head width
- 30 ft.-lb. fastening torque
- ½" side to center
- Free speed 260 RPM
- Pin detent retainer
- In-line handle design

Cordless Tool Kit Contents	Battery Capacity	Item No.
⅜ in Square Drive		
(1) Bare Tool	1.5Ah	22MC20
(1) Bare Tool, (1) Battery, (1) Charger	(1) 2.0 Ah	22MC21

Ingersoll Rand **12V**

12V Cordless Reciprocating Saw

- ½" stroke
- 3300 max. spm
- Straight stroke
- Variable speed
- Adjustable shoe
- Vibration reduction
- Compact design

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool, (1) Charger, (2) Batteries	2 Ah	401R89

PORTER+CABLE 20V

Batteries & Chargers

- Lithium-ion batteries

20V Max
25DT68

Charger
32ZU55

Battery Capacity	Number of Batteries Included: 1 — Mfr. Model	1 — Item No.	2 — Mfr. Model	2 — Item No.
20V MAX Batteries				
2 Ah	PCC682L	32ZU54		—
4 Ah	PCC685L	25DT68	PCC685LP	53KJ72

For Battery Chemistry	Charging Port Voltage	Charger Class	Battery Capacity Charged in 1-Hour	Mfr. Model	Item No.
Single-Port Charging					
Li-Ion	(1) 20V	Standard	2 Ah	PCC692L	32ZU55

21RV39

40AL40

PORTER+CABLE 20V

Combo Kits

No. of Tools	Included Drills	Included Fastening Tools	Included Saws & Grinders	Other Tools and Accessories	Case Included	Battery Capacity	Item No.
2	½ in Drill (General Purpose, 1,500 RPM)	—	Full-Size Reciprocating Saw	—	—	(1) 1.5 Ah	20GV97
2	½ in Drill (General Purpose, 1,500 RPM)	Impact Driver (1,400 in-lb)	—	—	Tool Bag	(2) 1.5 Ah	21RV39
2	½ in Drill (General Purpose, 1,500 RPM)	Impact Driver (1,450 in-lb)	—	—	Tool Bag	(2) 1.3 Ah	45KE19
4	½ in Drill (General Purpose, 1,500 RPM)	—	Circular Saw (5 ½ in Dia.), Full-Size Reciprocating Saw	Work Light	Tool Bag	(2) 1.3 Ah	40AL40

PORTER+CABLE 20V

Cordless Hammer Drills

- ½" chuck

Bare Tool
30RV98

No Load RPM	Blows per Minute	Max. Torque	Battery Incl.	Battery Included/ Bare Tool	Battery Capacity	Item No.
Brushless Motor: Yes						
0 to 1500	0 to 25,500	265 in-lb	Mfr. No. PCC681L	Battery Included	1.3 Ah	49EN10
Brushless Motor: No						
0 to 400/0 to 1600	0 to 27,200	255 in-lb	No	Bare Tool	2.0Ah	30RV98

PORTER+CABLE 20V

Cordless Jigsaw

- T-shank blade
- Variable speed
- Orbital stroke
- ¾" stroke
- 0 to 2500 spm
- 45° left to 45° right bevel angle range

Cordless Tool Kit Contents	Item No.
(1) Bare Tool	25DT64

PORTER+CABLE 20V

Cordless Circular Saw

- ⅝" arbor
- Direct drive
- Left side blade
- Bare tool

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Bevel Angle Range	Max. Blade Speed	Item No.
6 ½ in	2 ⅛ in	0° to 50° Left	4,000 RPM	25DT63

PORTER+CABLE 20V

Cordless Pistol-Grip Drills

- ½" keyless chuck
- Brushless motor
- 2 speeds
- Built-in light

49EN13

Max. Speed	Max. Power	Cordless Tool Kit Contents	Battery Capacity	Number of Clutch Settings	Item No.
1,500 RPM	283 UWO	(1) Bare Tool	1.3Ah	18 + Drill	20GV96
1,800 RPM	370 MWO	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	18 + Drill	49EN13

PORTER+CABLE 20V

Cordless Impact Wrenches

- Keyless chuck
- ½" square drive
- Friction ring retainer
- 330 ft.-lb. fastening torque
- 330 ft.-lb. breakaway torque
- Free speed 1700 RPM
- Built-in light

Bare Tool
49EN07

Cordless Tool Kit Contents	Battery Capacity	Item No.
(1) Bare Tool	—	49EN07
(1) Bare Tool, (1) Battery, (1) Charger	(1) 4.0 Ah	49EN08

PORTER+CABLE 20V

Cordless Impact Drivers

- ¼" hex drive
- 3100 impacts per min.
- Straight drive
- 1 speed
- Pistol grip
- Built-in light

49EN14

Max. Torque	Free Speed	Cordless Tool Kit Contents	Battery Capacity	Item No.
Brushless Motor: No				
1,450 in-lb	2,900 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	21RU23
Brushless Motor: Yes				
1,400 in-lb	2,700 RPM	(1) Bare Tool, (2) Batteries	(2) 1.5 Ah	49EN14
1,450 in-lb	2,800 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 1.5 Ah	53KJ68

PORTER+CABLE 20V

Cordless Reciprocating Saw

- Full size
- Straight stroke
- Variable speed

Stroke Length	Max. Strokes per Minute	Cordless Tool Kit Contents	Item No.
1 in	3,000	(1) Bare Tool	25DT62

PORTER+CABLE 20V

Cordless Oscillating Tool

- 8000 to 18,000 oscillations per min.
- Accessory free tool change
- Bare tool

Oscillation Angle	Includes	Item No.
2.8 °	(1) PC3005 Sanding Platen, (1) PC3010 Precision Wood Blade, (1) PC3012 Bi-Metal Blade, (8) Sanding Papers	25DT65

Dewalt 24WY33

Dremel 780U17

Fein 346EX0

Panasonic 22EC14

Cordless Screwdrivers

DEWALT DREMEL Fein Panasonic PROTO

Tools accept interchangeable screwdriver bits, and they can rotate screws without overdriving them, snapping them, or stripping the screwhead. Models run on brand-specific batteries and don't require a corded power source.

Drive Size	Max. Torque	Free Speed	Cordless Tool Kit Contents	Includes	Battery Capacity	Clutch Type	Built-In Light	Series	Item No.
DeWalt									
8V DC, Pivot, General Purpose Screwdriver									
¼ in Hex	23 in-lb	430 RPM	(1) Bare Tool, (1) Battery, (1) Charger	Kit Bag	(1) 1.0 Ah	Adjustable Clutch Collar	Yes	8V MAX*	**24WY32**
¼ in Hex	23 in-lb	430 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) 8V MAX Compact Batteries, Hour Charger, Kit Bag, Screwdriver	(2) 1 Ah	Adjustable Clutch Collar	Yes	8V MAX*	**24WY33**
¼ in Hex	23 in-lb	430 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	Kit Bag	(2) 1 Ah	Direct Drive	Yes	8V MAX*	**30RV67**
Dremel									
3.6V DC, Straight, USB Rechargeable Electric Screwdriver									
¼ in Hex	5 in-lb	360 RPM	(1) Battery; (1) Charger	—	3.6Ah	—	—	HSES	**780U17**
Fein									
18V DC, Pistol Grip, General Purpose Screwdriver									
¼ in Hex	266 in-lb	1,700 RPM	(1) Bare Tool	(1) Depth Stop, (1) Hook, (1) Insert for Hexagon Bolts SW 8, (1) Plastic Carrying Case	—	Shut-off	—	—	**346EX0**
Panasonic									
2.4V DC, Pivot, General Purpose Screwdriver									
—	35 in-lb	400 RPM	(1) Bare Tool, (1) Battery	Battery Pack	(1) 2.8 Ah	Adjustable	Yes	Standard	**22EC17**
3.6V DC, Pivot, General Purpose Screwdriver									
—	39 in-lb	600 RPM	(1) Bare Tool, (2) Batteries, (1) Charger	(2) Battery Packs, Carrying Case, Charger	(2) 1.5 Ah	Adjustable	Yes	Standard	**22EC14**
Proto									
4V, Straight, General Purpose Screwdriver									
¼ in	8 in-lb	300 RPM	(1) Bare Tool; (1) Charger	Storage Box, USB-C Charging Cable, (3) Bit Extenders, (48) 1 in Premium S2 Bits	2.0 Ah	—	Yes	N	**787D09**

Inline 40TP95

Inline 3Y475

Inline 3Y472

Pistol Grip 3Y477

Corded Production Screwdrivers

ASG Ingersoll Rand

- ¼" drive size
- Reversible
- Variable speed

Tools accept interchangeable screwdriver bits to install/remove screws more quickly than manual screwdrivers. **Inline** models align the bit-holding chuck with the tool body for use in tight spaces. **Pistol-grip** models keep the tool steady and control the pressure applied to the bit during driving.

Torque Range	Free Speed	Throttle Type	Clutch Type	Includes	Brand	Item No.
Inline						
20/30V DC						
0.9 in-lb to 4.9 in-lb	1,000 RPM	Lever	Adjustable Torque	4 mm Round Bits	Asg	**40TP87**
1.8 in-lb to 10.6 in-lb	900 RPM	Lever	Shut-Off	(3) Bits, Hex Wrench, Power Cable	Asg	**40TP94**
1.8 in-lb to 15 in-lb	700 RPM	Lever	Shut-Off	(2) Bits, (2) Torque Springs, Power Cable, Replacement Brushes	Asg	**40TP88**
2.2 in-lb to 11.5 in-lb	900 RPM	Lever	Shut-Off	(3) Bits, Power Cable, Replacement Brushes	Asg	**40TP91**
2.7 in-lb to 14.2 in-lb	900 RPM	Lever	Adjustable Torque	(2) Torque Springs, (3) Bits, Power Cable, Replacement Brushes	Asg	**40TP89**
2.7 in-lb to 14.2 in-lb	900 RPM	Push to Start	Adjustable Torque	(2) Torque Springs, (3) Bits, Power Cable, Replacement Brushes	Asg	**40TP93**
2.7 in-lb to 22.1 in-lb	90 RPM	Lever	Adjustable Torque	(2) Torque Springs, (3) Bits, Power Cable, Replacement Brushes	Asg	**40TP92**
6.2 in-lb to 31 in-lb	700 RPM	Lever	Shut-Off	(3) Bits, Hex Wrench, Power Cable	Asg	**40TP95**
24V DC						
0.5 in-lb to 10.44 in-lb	700 RPM	Lever	Shut-Off	1.5 m Cable, Hanger Bail, Two Bits	Ingersoll Rand	**3JD53**
2 in-lb to 9 in-lb	650 RPM	Lever	Shut-Off	1.5 m Cable, Hanger Bail, Two Bits	Ingersoll Rand	**3Y475**
115V AC						
4.4 in-lb to 16 in-lb	2,000 RPM	Inline-Push	Shut-Off	(2) Bits, (2) Brushes, Hanger Bail	Ingersoll Rand	**3Y472**
4.4 in-lb to 17 in-lb	1,000 RPM	Inline-Push	Shut-Off	(2) Bits, (2) Brushes, Hanger Bail	Ingersoll Rand	**3Y474**
10 in-lb to 26 in-lb	700 RPM	Inline-Push	Shut-Off	(2) Bits, (2) Brushes, Hanger Bail	Ingersoll Rand	**3Y473**
Pistol Grip						
115V AC						
15 in-lb to 40 in-lb	400 RPM	Inline-Push	Shut-Off	(2) Bits, (2) Brushes, Hanger Bail	Ingersoll Rand	**3Y477**

Drywall 4LF91

Drywall 6KX33

Metal Fastening 4LF87

Metal Fastening 1XEL7

Subflooring 22A512

Corded Screw Guns

DEWALT SENCO Milwaukee

- ¼" drive size
- Variable speed
- Reversible
- 120V AC

An adjustable nose sets the drive to fasten screws to a consistent depth. Their clutch automatically disengages the drive at the set depth to prevent overdriving. **Drywall screw guns** set screw heads flush with the drywall paper surface. **Metal-fastening screw guns** drive sheet metal screws and other metal-to-metal or metal-to-wood fasteners. They provide more torque than drywall screw guns. **Subflooring screw guns** have an extension which allows the user to operate the device from a standing position to reduce back strain and speed screw installation. They're sometimes used for installing decking and drywall ceilings.

Free Speed	Torque Range	Current	Clutch Type	Includes	Brand	Item No.
Drywall Screw Gun						
2,500 RPM	132 in-lb	6.2 A	Auto Adjustable	#2 Bit Tip And Holder, Set and Forget Nose Piece, Soft Grip	DeWalt	**4LF80**
2,500 RPM	132 in-lb	6.5 A	Positive	2-Finger Trigger Switch, Helical Cut Steel, Heat-Treated Gears	DeWalt	**4LF91**
2,500 RPM	132 in-lb	6.5 A	Standard	#2 Bit Tip And Holder, Metal Gear Housing Set, Set and Forget Nosepiece, Soft Grip	DeWalt	**4LF90**
2,500 RPM	132 in-lb	6.5 A	Positive	2-Finger Trigger Switch, Helical Cut Steel, Heat-Treated Gears	DeWalt	**4LF93**
4,000 RPM	60 in-lb	6 A	Standard	#2 Bit Tip And Holder, Set and Forget Nose Piece, Soft Grip	DeWalt	**4JB76**
4,000 RPM	81 in-lb	6.3 A	Standard	Metal Gear Housing Set, Set-and-Forget Nosepiece, Soft Grip Handle	DeWalt	**4NZ46**
4,000 RPM	Not Specified	6.5 A	Adjustable Positive	(1) Belt Clip	Milwaukee	**6KX33**
5,300 RPM	60 in-lb	6 A	Positive	#2 Bit Tip And Holder, Set and Forget Nose Piece, Soft Grip	DeWalt	**6GD99**
Metal Fastening Screw Gun						
1,000 RPM	344 in-lb	6.5 A	Auto Adjustable	1/64 in Depth Adj., Clutch Override, Mag Bit Holder, Soft Grip Handle	DeWalt	**4LF87**
2,000 RPM	132 in-lb	6.5 A	Auto Adjustable	1/64 in Depth Adj., Clutch Override, Mag Bit Holder, Soft Grip Handle	DeWalt	**4LF84**
2,500 RPM	132 in-lb	6.5 A	Auto Adjustable	Clutch Override, Mag Bit Holder, Soft Grip Handle	DeWalt	**4LF85**
2,500 RPM	0 ft-lb to 140 in-lb	6.5 A	Adjustable Positive	(1) Belt Clip	Milwaukee	**1XEL7**
Subflooring Screw Gun						
2,500 RPM	100 in-lb to 100 in-lb	6.4 A	Standard	Drive Bit (Phillips), Drive Bit (Rex), Drive Bit (Square), Extension Pole and Power Grip Handle, Mfr. No. DS320 Attachment, Storage Bag	Senco	**22A513**
4,000 RPM	82 in-lb to 82 in-lb	6.4 A	Standard	Drive Bit (Phillips), Drive Bit (Rex), Drive Bit (Square), Extension Pole and Power Grip Handle, Mfr. No. DS320 Attachment, Storage Bag	Senco	**22A512**

Corded Pistol-Grip Drills

- 120V AC
- Variable speed reversing trigger switch

These corded drills provide ergonomic handling for a range of positions on vertical and horizontal surfaces. Pistol-grip positioning keeps the tool steady and controls pressure during drilling and driving.

Free Speed	Current	Tool Wt.	Cord Length	Gear Train	Includes	Brand	Item No.
⅜ in Keyless Chuck							
1,250 RPM	6.7 A	3.3 lb	8 ft	Double	—	DeWalt	**4LF69**
2,500 RPM	6.5 A	3.2 lb	6 ft	Triple	—	Porter Cable	**34G828**
2,500 RPM	8.0 A	4.1 lb	8 ft	Single	Belt Hook, Heavy-Duty Kit Bag	DeWalt	**2EKR7**
2,500 RPM	8.0 A	4.1 lb	8 ft	Single	Heavy-Duty Kit Box	DeWalt	**2EKR8**
2,500 RPM	8.0 A	4.1 lb	8 ft	Single	Belt Hook, Soft Grip Handle	DeWalt	**2VDJ8**
2,600 RPM	6.3 A	3.4 lb	8 ft	Single	—	Bosch	**44K694**
2,800 RPM	8.0 A	4.2 lb	8 ft	Double	—	Milwaukee	**4VYZ3**
½ in Keyless Chuck							
600 RPM	7.8 A	4.4 lb	8 ft	Triple	Soft Grip Side Handle	DeWalt	**4LF77**
1,250 RPM	10.0 A	5.2 lb	8 ft	Double	360° Side Handle with Soft Grip	DeWalt	**3GRF2**
⅝ in Keyless Chuck							
1,600 RPM	13.0 A	7.3 lb	13 ft	Double	Case, Centering Pin, Quick Clamping Chuck, Side Handle	Slugger By Fein	**54FH36**
¼ in Keyed Chuck							
4,000 RPM	6.7 A	3.2 lb	8 ft	Single	Chuck Key	DeWalt	**4LF67**
⅜ in Keyed Chuck							
1,200 RPM	7.0 A	4.2 lb	8 ft	Double	(1) Chuck Key With Holder	Milwaukee	**6KW92**
1,250 RPM	7.0 A	3.6 lb	8 ft	Double	Chuck Key	DeWalt	**4LF70**
2,800 RPM	7.0 A	3.6 lb	8 ft	Single	Chuck Key	DeWalt	**53DR71**
½ in Keyed Chuck							
600 RPM	7.8 A	4.4 lb	8 ft	Triple	Side Handle	DeWalt	**4LF76**
850 RPM	8.0 A	5.4 lb	8 ft	Double	(1) Chuck Key With Holder, (1) Side Handle	Milwaukee	**6KW95**
850 RPM	8.0 A	5.6 lb	8 ft	Double	(1) Side Handle	Milwaukee	**6MR87**
950 RPM	5.5 A	4.8 lb	8 ft	Double	Side Handle	Milwaukee	**4Z371**
1,000 RPM	8.5 A	4.2 lb	8 ft	Double	Side Handle	DeWalt	**4LF73**
1,200 RPM	10.0 A	4.9 lb	8 ft	Double	Holder	DeWalt	**5YAW9**
1,250 RPM	10.0 A	4.9 lb	8 ft	Double	360° Side Handle with Soft Grip	DeWalt	**3GRF1**
—	6.7 A	6.7 lb	9 ft	Double	Side Handle	Metabo	**36H096**
850 RPM	8.0 A	5.4 lb	8 ft	Double	(1) Chuck Key With Holder, (1) Side Handle	Milwaukee	**3DU39**

⅜" Keyless Chuck 34G828

½" Keyless Chuck 3GRF2

⅝" Keyless Chuck 54FH36

¼" Keyed Chuck 4LF67

⅜" Keyed Chuck 6KW92

½" Keyed Chuck 3DU39

1XHH9

1GML2

Corded Right-Angle Drills

- Reversing
- Keyed chuck
- Variable speed
- Continuous speed
- ⅜" drill capacity in steel
- 120V AC
- Paddle switch

A bit-holding chuck oriented 90° to the tool body creates a slim profile for accessing corners and reaching into tight spaces.

Free Speed	Current	Throttle Type	Tool Wt.	Brand	Item No.
1,300 RPM	3.5 A	Lever	3.9 lb	Milwaukee	**1XHH9**
2,400 RPM	4.0 A	Paddle	3.5 lb	Makita	**1GML2**

Item	Size	Max. Speed	Brand	Item No.	Pkg. Qty.
Accessories					
Surface Prep Wheel, For Slow Speed Right Angle Drills					
3M(TM) SR Cutter No.3	⅜ in Dia x 1 in	1,500 RPM	3M	**787C25**	50
3M(TM) SR Cutter No.8	13⁄16 in Dia x 1 in	1,500 RPM	3M	**787C26**	50

Keyless 6Z338

Keyed 36TN85

Corded Joist & Stud Right-Angle Drills

- ½" chuck
- 2 speed settings
- ½" drilling capacity in steel
- 120V AC

These two-handled, high-torque drills drive wide drill bits and hole-saw attachments to make large holes for running duct, pipe, and wiring through framing and flooring. Users hold them at waist level and lean into them to increase drilling force. The chuck is oriented 90° to the tool body, so they have a slim profile for accessing corners or narrow spaces.

Current	Free Speed	Drilling Capacity in Wood	Switch Type	Reversible	Brand	Item No.
Keyless						
7.0 A	750 RPM	4 ⅝ in	Trigger	Yes	Milwaukee	**6Z338**
Keyed						
7.0 A	900 RPM	2 9⁄16 in	Trigger	Yes	Milwaukee	**2Z728**
11.0 A	1,300 RPM	1 ½ in	Trigger	Yes	DeWalt	**36TN85**
13 A	1,750 RPM	1 ½ in	Paddle	No	Milwaukee	**3TY44**

Corded Spade-Grip Drills

- Trigger throttle

Additional handles provide maximum control and allow users to apply extra force. These drills use wide, long bits to bore large holes in timber or to mix mud or plaster.

Chuck Size	Drill Chuck Type	Free Speed	Current	Variable Speed	Drilling Capacity in Steel	Drilling Capacity in Wood	Gear Train	Brand	Item No.
Straight Handle									
½ in	Keyed	1,200 RPM	7.5 A	Yes	¾ in	1 ½ in	Triple	Milwaukee	**6Z041**
	Keyed	1,200 RPM	7.5 A	Yes	½ in	4 ⅝ in	Triple	Milwaukee	**2Z965**
Spade Handle									
½ in	Keyed	450 RPM	7.0 A	Yes	½ in	1 ½ in	Triple	Milwaukee	**2Z727**
	Keyed	550 RPM	9.0 A	Yes	—	—	Triple	DeWalt	**4YY99**
	Keyed	650 RPM	7.0 A	Yes	½ in	1 ½ in	Double	Milwaukee	**6Z042**
¾ in	Keyed	350 RPM	10.0 A	No	¾ in	1 ½ in	Triple	Milwaukee	**6Z330**
1 ¼ in	Keyless	250 RPM	10.0 A	No	¾ in	1 ½ in	Triple	Milwaukee	**1Y033**
Angle Drive 33 Degrees Kit									
Includes 33° 30" Angle Extension Tube, Side Handle, Drive Shaft with Hex Sockets on Both Ends, and 2 Clamping Collars; For Use with Nos. 2Z726 and 6Z324								Milwaukee	**4AC31**

Straight Handle 6Z041

Spade Handle 4YY99

Ship
4AAT8

IRWIN®
Milwaukee

Auger Drill Bits for Aggressive Drilling

Feature wide flutes that can evacuate chips more efficiently and allow the bits to drill more deeply than other styles of drill bits for wood. A self-feeding tip pulls the bit into the workpiece and helps prevent it from moving or walking during drilling.

Pole Auger—Extra-long bits can drill deep holes through timber, pressure-treated lumber, and hollow fiberglass or composite utility poles.

Ship Auger—Long bits can drill through wood with embedded nails and they create deep holes in timber, pressure-treated lumber, and utility poles.

Drill Bit Size	Overall Length	Shank Hex Size	Brand	Item No.
Pole Auger				
Carbon Steel				
11⁄16"	18"	7⁄16"	IRWIN	**6DLZ3**
11⁄16"	24"	11⁄16"	Milwaukee	**55EA35**
¾"	29"	7⁄16"	IRWIN	**6DMA0**
13⁄16"	18"	7⁄16"	IRWIN	**6DLZ4**
13⁄16"	18"	⅝"	IRWIN	**6DLZ9**
13⁄16"	24"	13⁄16"	Milwaukee	**55EA34**
13⁄16"	29"	7⁄16"	IRWIN	**6DLZ6**
13⁄16"	30"	13⁄16"	Milwaukee	**55EA26**
15⁄16"	18"	15⁄16"	Milwaukee	**55EA44**
1"	24"	1"	Milwaukee	**55EA32**
1 1⁄16"	18"	1 1⁄16"	Milwaukee	**55EA42**
1 ¼"	24"	1 ¼"	Milwaukee	**55EA29**
Steel				
⅜"	24"	⅜"	Milwaukee	**55EA39**
½"	24"	½"	Milwaukee	**55EA38**
⅝"	18"	⅝"	Milwaukee	**55EA47**
⅝"	24"	⅝"	Milwaukee	**55EA36**
⅝"	30"	⅝"	Milwaukee	**55EA28**
11⁄16"	18"	11⁄16"	Milwaukee	**55EA46**
11⁄16"	30"	11⁄16"	Milwaukee	**55EA27**
13⁄16"	18"	13⁄16"	Milwaukee	**55EA45**
15⁄16"	24"	7⁄16"	Milwaukee	**55EA33**
15⁄16"	30"	15⁄16"	Milwaukee	**55EA25**
1"	18"	1"	Milwaukee	**55EA43**
1 ⅛"	24"	1 ⅛"	Milwaukee	**55EA30**
Ship Auger				
Carbon Steel				
⅜"	17"	⅜"	IRWIN	**4AAT4**
7⁄16"	17"	7⁄16"	IRWIN	**4KYP8**
½"	17"	½"	IRWIN	**4AAT5**
9⁄16"	17"	9⁄16"	IRWIN	**4AAT6**
⅝"	17"	⅝"	IRWIN	**4AAT7**
11⁄16"	17"	11⁄16"	IRWIN	**4AAT8**
¾"	17"	¾"	IRWIN	**4AAT9**
13⁄16"	17"	13⁄16"	IRWIN	**4AAU1**
13⁄16"	18"	7⁄16"	IRWIN	**6DLZ5**
⅞"	17"	⅞"	IRWIN	**4AAU2**
15⁄16"	17"	15⁄16"	IRWIN	**4AAU3**
1"	17"	1"	IRWIN	**4AAU4**
1 ⅛"	17"	1 ⅛"	IRWIN	**4AAU5**
1 ¼"	17"	7⁄16"	IRWIN	**4AAU6**
1 ½"	17"	1 ½"	IRWIN	**4AAU7**
1 ⅝"	17"	1 ⅝"	IRWIN	**6DMA1**
1 ¾"	17"	1 ¾"	IRWIN	**6DMA2**
2"	17"	7⁄16"	IRWIN	**6DMA3**

Bright
1PMP6

IRWIN® BOSCH

Quick-Change Hex-Shank Flat Spade Drill Bits

These bits have a flat head with two cutting spurs and produce clean holes at high drilling speeds faster than standard twist drill bits. A quick-change hex shank allows quick, toolless drill bit changeouts compared to bits with a standard hex shank. Commonly used in construction and maintenance applications to drill shallow holes for running wire and pipe.

Drill Bit Size	Overall Length	Brand	Item No.
Bright (Uncoated)			
¼"	6"	IRWIN	**1PMN6**
⅜"	6"	IRWIN	**4XK93**
⅜"	16"	IRWIN	**1PMP5**
7⁄16"	6"	IRWIN	**1PMN8**
½"	6"	IRWIN	**4XK94**
½"	16"	IRWIN	**1PMP6**
9⁄16"	6"	IRWIN	**1PMN9**
⅝"	4"	IRWIN	**21Y386**
⅝"	6"	IRWIN	**4XK95**
11⁄16"	6"	IRWIN	**1PMP1**
¾"	4"	IRWIN	**21Y387**
¾"	6"	IRWIN	**4XK96**
¾"	16"	IRWIN	**1PMP8**
13⁄16"	6"	IRWIN	**1PMP2**
⅞"	6"	IRWIN	**4XK97**
15⁄16"	6"	IRWIN	**1PMP3**
1"	4"	IRWIN	**21Y389**
1"	6"	IRWIN	**4XK98**
1"	16"	IRWIN	**1PMR1**
1 ⅛"	6"	IRWIN	**4XK99**
1 ¼"	6"	IRWIN	**4XL01**
1 ⅜"	6"	IRWIN	**1PMP4**
1 ½"	4"	IRWIN	**21Y391**
1 ½"	6"	IRWIN	**4XL02**
1 ½"	6"	Bosch	**38C924**
Painted			
½"	16"	Bosch	**38C926**
⅝"	16"	Bosch	**38C927**
¾"	6"	Bosch	**38C916**
¾"	16"	Bosch	**38C928**
⅞"	6"	Bosch	**38C918**
1"	6"	Bosch	**38C920**
1"	16"	Bosch	**38C930**
1 ⅛"	6"	Bosch	**38C921**
1 ¼"	6"	Bosch	**38C922**

Number of Drill Bits	Drill Bit Sizes Included	Brand	Item No.
Sets, Bright (Uncoated) Carbon Steel			
6	⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in	IRWIN	**4XL03**
8	⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in	Bosch	**53DM23**
9	¼ in, ⅜ in, ½ in, 9⁄16 in, ⅝ in, 11⁄16 in, ¾ in, ⅞ in, 1 in	Bosch	**499K95**
13	¼ in, ⅜ in, ½ in, 9⁄16 in, ⅝ in, 11⁄16 in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in, 1 ⅜ in, 1 ½ in	Bosch	**5EEU2**

2Q493

BOSCH Milwaukee

Self-Feed Drill Bits for Boring

Have beveled saw teeth and a screw tip that pulls the bits into the workpiece to quickly bore holes in wood without applying pressure. The bits' teeth can be resharpened and their screw tip can be replaced for long bit life. A quick-change hex shank allows quick, toolless drill bit changeouts compared to bits with a standard hex shank. Commonly used in construction, electrical, and plumbing applications to drill holes for running pipe, wire, and vents.

Drill Bit Size	Shank Hex Size	Overall Length	Brand	Item No.
Carbon-Steel				
Hex				
3"	7⁄16 in	5"	Bosch	**44H587**
3⅝"	7⁄16 in	5"	Bosch	**44H588**
High-Speed-Steel				
Hex				
1 ½"	7⁄16 in	5"	Milwaukee	**2VFY7**
1 ½"	7⁄16 in	6"	Milwaukee	**4YE34**
1 ¾"	7⁄16 in	6"	Milwaukee	**4GY78**
2"	7⁄16 in	5"	Milwaukee	**2VFY8**
2"	7⁄16 in	6"	Milwaukee	**1AKB5**
2 ⅛"	7⁄16 in	5"	Milwaukee	**2VFY9**
2 ¼"	7⁄16 in	6"	Milwaukee	**4CU99**
2 9⁄16"	7⁄16 in	5"	Milwaukee	**2VFZ1**
2 9⁄16"	7⁄16 in	6"	Milwaukee	**4CY12**
Straight with Three Flats				
3"	—	6"	Milwaukee	**2Q493**
3⅝"	—	6"	Milwaukee	**1Y824**
4⅝"	—	6"	Milwaukee	**2Q494**

Number of Drill Bits	Drill Bit Sizes Included	Brand	Item No.
Plumber Self Feed Drill Bit Set			
3	1 ⅜ in, 2 ⅛ in, 2 9⁄16 in	Milwaukee	**1YND6**
5	1 ⅜ in, 1 ½ in, 2 ⅛ in, 2 9⁄16 in	Milwaukee	**2VFZ7**
7	⅞ in, 1 ⅛ in, 1 ¼ in, 1 ½ in, 1 ¾ in, 2 ⅛ in, 2 9⁄16 in	Milwaukee	**2Q513**
Contractor Self Feed Drill Bit Set			
7	1 in, 1 ⅛ in, 1 ¼ in, 1 ½ in, 1 ¾ in, 2 ⅛ in, 2 9⁄16 in	Milwaukee	**2Q515**

36RF07

BOSCH
IRWIN®
PORTER CABLE

Carbon Steel Forstner Drill Bits

Used to create flat-bottomed holes with smooth walls and clean edges in woodworking applications where the holes will be visible. Bits can be used with a handheld drill or drill press to drill angled holes, partially overlapping holes, and holes positioned on the edge of a workpiece.

Drill Bit Size	Shank Diameter	Brand	Item No.
1 ½"	1 ½"	Bosch	**44H489**
1 ¼"	1 ¼"	Bosch	**44H487**
1 ⅜"	1 ⅜"	Bosch	**44H488**
1 ⅞"	1 ⅞"	Bosch	**44H492**
2 ⅛"	2 ⅛"	Bosch	**44H494**
¾"	¾"	Bosch	**44H483**
⅜"	⅜"	Bosch	**44H480**
⅝"	⅝"	Bosch	**44H482**
⅞"	⅞"	Bosch	**36RF07**
1"	1 ¼"	Bosch	**44H485**
2"	2"	Bosch	**44H493**

Number of Drill Bits	Drill Bit Sizes Included	Brand	Item No.
Forstner Drill Bit Sets			
7	¼ in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in	Bosch	**44K645**
14	¼ in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in, 1 ⅜ in, 1 ½ in, 1 ⅝ in, 2 in	IRWIN	**53DN63**
14	¼ in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in, 1 ⅜ in, 1 ½ in, 1 ⅝ in, 2 in	Porter Cable	**5NAJ5**
16	¼ in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in, 1 ⅜ in, 1 ½ in, 1 ⅝ in, 1 ¾ in, 1 ⅞ in, 2 in, 2 ⅛ in	Bosch	**44K644**

1PMT3

IRWIN®

Hybrid Utility Drill Bits

Feature three cutting spurs for fast hole drilling with minimal breakout and can drill through nails in framing applications. Have three open flutes that eject chips efficiently and help prevent the bits from binding during drilling. A self-feeding screw-point tip pulls bits into the workpiece and helps prevent them from moving, or walking, during drilling. Wire-fishing holes allow wires to be pulled through surfaces after drilling.

Drill Bit Size	Flute Length	Shank Diameter	Item No.
½"	1¾"	¼"	**1PMT1**
⅝"	2"	¼"	**1PMT2**
¾"	2⅜"	¼"	**1PMT3**
⅞"	2⅝"	¼"	**1PMT4**
1"	2¾"	¼"	**1PMT5**
1 ¼"	2⅞"	¼"	**1PMT6**
1 ½"	2⅞"	⅜"	**5ELR4**

Number of Drill Bits	Drill Bit Sizes Included	Item No.
Hybrid Drill Bit Sets		
3	⅝ in, ¾ in, 1 in	**1PMT7**

20FR27

EAGLE

Cable Drill Bits for Wire Systems

Bits can bend around obstructions when drilling holes for running wire and cable in hard-to-reach areas. Wire-fishing holes allow wires to be pulled through surfaces after drilling. All bits, except Interchangeable Head and Shank bits, have a tip that prevents it from moving or walking during drilling.

Auger-Style—Wide flutes evacuate chips more efficiently than other styles of cable drill bits.

Interchangeable Head and Shank— Allows users to exchange the bits' head with a compatible head of a different style or replace the bits' shank with a shank of a different length.

Screw-Point—The tips have sharper threads and provide more pulling power than other styles of cable drill bits.

Serrated-Head—The serrated head helps pull the bits through walls and other surfaces.

Drill Bit Size	Overall Length	Shank Diameter	Shank Type	Item No.
Auger-Style Cable Drill Bits				
Carbon Steel Bright (Uncoated)				
¾"	54"	¼ in	Quick-Change Hex	**33GM44**
Carbon Steel Powder Coated				
½"	24"	3/16 in	Straight with Three Flats	**20FR36**
Interchangeable Head & Shank Cable Drill Bits				
Carbon Steel Nickel				
½"	6"	—	—	**20FR01**
¾"	5"	—	—	**20FP98**
Screw-Point Cable Drill Bits				
Carbon Steel Powder Coated				
½"	54"	3/16 in	Straight with Three Flats	**44YW03**
9/16"	36"	3/16 in	Straight with Three Flats	**20FR27**
9/16"	72"	3/16 in	Straight with Three Flats	**20FR29**
¾"	72"	¼ in	Straight with Three Flats	**20FR34**
Serrated-Head Cable Drill Bits				
Carbon Steel Powder Coated				
¼"	18"	3/16 in	Straight with Three Flats	**33GM46**
9/16"	72"	3/16 in	Straight with Three Flats	**33GM60**

WINGITS® The Solutions Company · BOSCH · HYDRO HANDLE

Drill Bit Sets for Glass, Tile, and Porcelain

Designed to avoid damaging the bits or the workpiece when creating holes in glass, ceramic, tile, natural stone, and porcelain.

Number of Drill Bits	Drill Bit Sizes Included	Primary Material Application	Material - Machining	Brand	Item No.
3	¼ in, ¾ in, 1 ¼ in	Ceramic, Glass, Metal, Marble, Plaster, Steel	Carbide	WingIt	**6UTD1**
4	⅛ in, 3/16 in, ¼ in, 5/16 in	Glass, Porcelain, Ceramic	Carbide Tipped	Bosch	**49XX72**
4	¼ in, 5/16 in, ⅜ in, ½ in	Ceramic, Glass, Mirror, Porcelain	Diamond	Hydro-Handle	**20RX71**
5	¼ in, ½ in, ¾ in, 1 in, 1 ¼ in	Ceramic, Glass, Metal, Marble, Plaster, Steel	Carbide	WingIt	**6UTD2**
8	⅛ in, 3/16 in, ¼ in, 5/16 in, ⅜ in, ½ in, ⅝ in, ¾ in	Glass, Porcelain, Ceramic	Carbide Tipped	Bosch	**3DRN1**
10	¼ in, 5/16 in, ⅜ in, ½ in, ¾ in, 1 in, 1 ⅜ in, 1 ½ in, 1 ¾ in, 2 in	Ceramic, Glass, Mirror, Porcelain	Diamond	Hydro-Handle	**20RX70**

3DRN1

WINGITS® The Solutions Company · BOSCH · DEWALT · ARTU USA · SUPPLIER DIVERSITY

Drill Bits for Glass, Tile, and Stone

These bits are designed to avoid damaging the bits or the workpiece when drilling holes in glass, ceramic, tile, natural stone, and porcelain.

Arrow-Tip Drill Bits for Glass and Tile—Have a tip that helps stop them from moving or walking when starting a hole, and allows bits to drill holes that are smaller than their bit diameter. Create holes in tile, porcelain, ceramic, and mirror glass and are typically used for creating smaller holes than would be possible with diamond-tipped core bits for tile.

Diamond-Tip Core Bits for Tile—Bits have hollow centers surrounded by cutting edges that have been coated with diamond abrasives to allow the bits to grind through porcelain, tile, and other very hard materials. They cut through the perimeter of the hole during drilling and leave a solid slug of material that can be ejected through a side slot on the bits. Typically used for drilling larger holes than would be possible with arrow-tip drill bits for glass and tile.

Drill Bits for Natural Stone—Feature multiple cutting edges that allow them to create holes in natural stone tile, slate, granite, and other hard specialty tiles more quickly than standard drill bits for glass and tile. Bits have tips that help prevent them from moving or walking when starting to drill.

Drill Bit Kits for Porcelain Tile—Kits each have a drill bit for creating holes in porcelain tile with a scratch hardness of eight or less. They also come with a pilot bit for creating a starter hole prior to drilling which helps prevent the drill bit from moving or walking when starting to drill. Bits have spiral flutes that pull dust and chips out of the hole during drilling.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.
Arrow-Tip Drill Bits for Glass & Tile					
Straight Shank					
¾ in	1 ¼ in	4 ¼ in	5/16 in	WingIt	**6UTC9**
Straight with Three Flats Shank					
⅛ in	2 ½ in	2 in	⅛ in	Bosch	**3AEE4**
3/16 in	2 ½ in	2 in	3/16 in	Bosch	**3AED7**
¼ in	2 ½ in	2 ¼ in	¼ in	Bosch	**3AED8**
5/16 in	2 ½ in	2 ¼ in	5/16 in	Bosch	**3AED9**
⅜ in	2 ½ in	2 ¼ in	⅜ in	Bosch	**3AEE1**
½ in	2 ½ in	3 ¾ in	⅜ in	Bosch	**3AEE2**
⅝ in	2 ½ in	4 in	⅜ in	Bosch	**3AEE3**
Diamond-Tip Core Bits for Tile					
Straight Shank					
3/16 in	1 ⅜ in	2 ¼ in	⅜ in	DeWalt	**1ELF4**
¼ in	2 in	2 ¼ in	⅜ in	DeWalt	**1ELF5**
5/16 in	2 in	2 ¼ in	⅜ in	DeWalt	**1ELF6**
⅜ in	2 in	2 ¼ in	⅜ in	DeWalt	**1ELF7**
½ in	1 ⅜ in	2 ¼ in	⅜ in	DeWalt	**1ELF8**
⅝ in	1 ⅜ in	2 ¼ in	⅜ in	DeWalt	**1ELF9**
1 ⅜ in	1 ¾ in	2 ¼ in	⅜ in	DeWalt	**4WLT2**
1 in	2 in	2 ¼ in	⅜ in	DeWalt	**1ELG2**
Drill Bits for Natural Stone					
Straight Shank					
⅛ in	1 in	2 in	⅛ in	Bosch	**49XX66**
3/16 in	1 in	2 in	3/16 in	Bosch	**49XX67**
¼ in	1 in	2 ¼ in	¼ in	Bosch	**49XX68**
5/16 in	1 in	2 in	¼ in	Bosch	**49XX69**
½ in	2 ¼ in	3 ¾ in	⅜ in	Bosch	**49XX71**
Straight with Three Flats Shank					
⅜ in	2 ¼ in	3 ¾ in	⅜ in	Bosch	**49XX70**

Drill Bit Size	Overall Length	Shank Diameter	Brand	Item No.
Drill Bit Kits for Porcelain Tile				
Straight Shank				
5/32 in	3 ⅛ in	5/32 in	Artu	**38A240**
3/16 in	3 ½ in	3/16 in	Artu	**38A241**
¼ in	4 ⅛ in	¼ in	Artu	**38A242**
5/16 in	4 ½ in	5/16 in	Artu	**38A243**
⅜ in	5 5/16 in	⅜ in	Artu	**38A244**

Arrow-Tip
3AEE4

Diamond-Tip
1ELF5

Scan. Order. Done.
Details on page A1.

3-Flat Shank
19RK78

3-Flat Shank
Without Point
783YM4

3-Flat Shank Tube &
Sheet Drill Bit
783YG2

Tube & Sheet Set
783YJ6

Hex-Shank
Impact Rated
2CJR4

Step Drill Bits

These cone-shaped drill bits have steps of increasing diameter marked along their cutting head and allow for a range of different sized holes with a single bit. As the bit is pushed into a piece of sheet metal or other thin material each step on the bit widens the hole. They have a self-starting split point, except 3-Flat Shank Step Drill Without Point bits, that prevents the bits from moving or walking when starting to drill. Suitable for drilling thin materials up to 1/8" thick.

3-Flat Shank Step Drill Bits—Have shanks with three flats that help prevent the bits from slipping in the drill chuck during drilling.

3-Flat Shank Step Drill Without Point—Bits have no self-starting point and require a starter hole before drilling.

Hex-Shank Impact-Rated Step Drill Bits—Have a hex shank and install into impact drills with standard three-jaw chucks.

Number Hole Sizes	Size Range	Step Increments	Shank Diameter	Maximum Drilling Depth	Overall Length	Brand	Item No.
3-Flat Shank Step Drill Bits							
Cobalt, Black Oxide Finish							
2	7/8 in to 1 1/8 in	1/4 in	3/8 in	1/8 in	2 7/8 in	IRWIN	**2CJR7**
8	9/16 in to 1 in	1/16 in	3/8 in	1/8 in	2 7/16 in	IRWIN	**2CJR8**
9	1/4 in to 3/4 in	1/16 in	3/8 in	1/8 in	2 1/2 in	IRWIN	**2CJR5**
12	3/16 in to 7/8 in	1/16 in	3/8 in	1/8 in	2 7/8 in	IRWIN	**2CJR6**
High Speed Steel, Black Oxide Finish							
1	7/8 in	5/32 in	3/8 in	—	1 13/16 in	IRWIN	**4A951**
	7/8 in to 1 1/8 in	3/4 in	1/4 in	—	2 3/16 in	Milwaukee	**19RK78**
	1 1/8 in	5/32 in	3/8 in	—	2 13/16 in	IRWIN	**4A952**
2	3/8 in to 1/2 in	1/16 in	1/4 in	—	2 in	Milwaukee	**19RK77**
	7/8 in to 1 1/8 in	1/4 in	3/8 in	1/8 in	2 7/8 in	IRWIN	**4XK52**
	7/8 in to 1 1/8 in	1/4 in	3/8 in	1 in	2 3/4 in	LENOX	**4XL28**
	7/8 in to 1 1/8 in	3/4 in	3/8 in	—	2 15/16 in	Milwaukee	**19RK80**
3	1/2 in to 1 1/8 in	3/8 in	3/8 in	4.5 mm	2 7/8 in	Westward	**6EXN6**
	7/8 in to 1 7/32 in	1/32 in	1/4 in	—	3 in	Milwaukee	**19RK81**
5	7/8 in to 1 3/8 in	3/16 in	1/4 in	—	3 1/16 in	Milwaukee	**19RK82**
	7/8 in to 1 3/8 in	3/16 in	3/8 in	1 in		LENOX	**761Y44**
6	3/16 in to 1/2 in	1/16 in	1/4 in	—	3 1/16 in	Milwaukee	**19RK73**
	3/16 in to 1/2 in	1/16 in	1/4 in	1 in	3 1/8 in	LENOX	**4XL25**
7	6 mm to 18 mm	2 mm	3/8 in	3.5 mm	2 1/2 in	IRWIN	**21Y395**
8	9/16 in to 1 in	1/16 in	3/8 in	1/8 in	2 7/16 in	IRWIN	**4A947**
9	1/4 in to 3/4 in	1/16 in	3/8 in	—	2 9/16 in	Milwaukee	**19RK74**
	1/4 in to 3/4 in	1/16 in	3/8 in	1/8 in	2 1/2 in	IRWIN	**4A948**
	1/2 in to 1 in	1/16 in	1/4 in	—	3 1/4 in	Milwaukee	**19RK79**
	1/2 in to 1 in	1/16 in	3/8 in	1 in	3 in	LENOX	**4XL23**
	4 mm to 12 mm	1 mm	1/4 in	65 mm	2 9/16 in	Milwaukee	**48UT19**
	4 mm to 20 mm	2 mm	3/8 in	65 mm	2 9/16 in	Milwaukee	**48UT21**
	7 mm to 28.3 mm	1/16 in	3/8 in	—	2 11/16 in	Milwaukee	**48UT22**
10	1/4 in to 1 3/8 in	1/16 in	3/8 in	1/8 in	3 1/16 in	IRWIN	**3UMJ7**
	1/4 in to 1 3/8 in	1/16 in	3/8 in	4 mm	3 in	Westward	**6EXN5**
	1/4 in to 1 3/8 in	1/8 in	3/8 in	—	3 in	Milwaukee	**19RK76**
	13/16 in to 1 3/8 in	1/16 in	3/8 in	1/8 in	2 11/16 in	IRWIN	**388R34**
12	3/16 in to 7/8 in	1/16 in	3/8 in	—	2 15/16 in	Milwaukee	**19RK75**
	3/16 in to 7/8 in	1/16 in	3/8 in	1/8 in	2 7/8 in	IRWIN	**6A922**
	3/16 in to 7/8 in	1/16 in	3/8 in	3.5 mm	2 7/8 in	Westward	**6EXN4**
13	1/8 in to 1/2 in	1/32 in	1/4 in	—	3 1/16 in	Milwaukee	**19RK72**
	1/8 in to 1/2 in	1/32 in	1/4 in	1 in	3 in	LENOX	**4XL22**
	1/8 in to 1/2 in	1/32 in	1/4 in	3.4 mm	2 7/8 in	Westward	**6EXN3**
	5 mm to 32.5 mm	1/16 in	3/8 in	—	3 11/16 in	Milwaukee	**48UT23**
	5 mm to 35 mm	2 mm	3/8 in	1/8 in	3 in	IRWIN	**41GR89**
15	6 mm to 35 mm	1/16 in	3/8 in	—	3 9/16 in	Milwaukee	**48UT24**
High Speed Steel, Bright (Uncoated) Finish							
2	7/8 in to 1 1/8 in	3/4 in	3/8 in	—	2 7/8 in	Milwaukee	**780U06**
5	7/8 in to 1 3/8 in	1/16 in	3/8 in	3 1/4 in	3 1/4 in	Westward	**19N141**
9	1/4 in to 3/4 in	1/16 in	3/8 in	2 3/4 in	2 3/4 in	Westward	**19N124**
	1/2 in to 1 in	1/16 in	3/8 in	3 1/4 in	3 1/4 in	Westward	**19N142**
12	3/16 in to 7/8 in	1/16 in	3/8 in	—	2 5/8 in	Milwaukee	**780U05**
	3/16 in to 7/8 in	1/16 in	3/8 in	3 1/4 in	3 1/4 in	Westward	**19N127**
13	1/8 in to 1/2 in	1/32 in	3/8 in	—	2 15/16 in	Milwaukee	**780U04**
High Speed Steel, TiN Finish							
9	1/4 in to 3/4 in	1/16 in	3/8 in	1/8 in	2 1/2 in	IRWIN	**4XK68**
12	3/16 in to 7/8 in	1/16 in	3/8 in	1/8 in	2 7/8 in	IRWIN	**4XK69**
3 Flat Shank Step Drill Without Point							
High Speed Steel, Bright (Uncoated) Finish							
9	12 mm to 20 mm	—	8 mm	12 mm	66 mm	Ruko Tools	**783YM1**
11	20 mm to 30 mm	—	10 mm	20 mm	78 mm	Ruko Tools	**783YM3**
	30 mm to 40 mm	—	10 mm	30 mm	78 mm	Ruko Tools	**783YM4**
High Speed Steel, TiN Finish							
9	12 mm to 20 mm	—	8 mm	12 mm	66 mm	Ruko Tools	**783YM2**
3 Flat Shank Tube & Sheet Drill Bits							
Cobalt, Bright (Uncoated) Finish							
2	1/8 in to 9/16 in	—	6 mm	9/16 in	58 mm	Ruko Tools	**783YG2**
	5/8 in to 1 3/16 in	—	9 mm	5/8 in	76 mm	Ruko Tools	**783YG8**
	15/16 in to 1 9/16 in	—	10 mm	15/16 in	89 mm	Ruko Tools	**783YH1**
High Speed Steel, Bright (Uncoated) Finish							
2	1/8 in to 9/16 in	—	6 mm	9/16 in	58 mm	Ruko Tools	**783YG1**
	5/32 in to 25/32 in	—	8 mm	5/32 in	71 mm	Ruko Tools	**783YG4**
	13/64 in to 7/8 in	—	8 mm	3/16 in	79 mm	Ruko Tools	**783YN3**
	13/64 in to 7/8 in	—	8 mm	3/16 in	79 mm	Ruko Tools	**783YJ7**
	13/64 in to 1 7/32 in	—	10 mm	3/16 in	87 mm	Ruko Tools	**783YH6**
	1 13/16 in to 2 in	—	12 mm	1 13/16 in	97 mm	Ruko Tools	**783YN4**
	1 9/16 in to 2 3/8 in	—	13 mm	1 9/16 in	103 mm	Ruko Tools	**783YH4**
High Speed Steel, TiAlN Finish							
2	13/64 in to 1 7/32 in	—	9 mm	3/16 in	103 mm	Ruko Tools	**783YN2**
High Speed Steel, TiN Finish							
2	1/8 in to 9/16 in	—	6 mm	9/16 in	58 mm	Ruko Tools	**783YG3**
	13/64 in to 7/8 in	—	8 mm	3/16 in	79 mm	Ruko Tools	**783YJ8**
	13/64 in to 1 7/32 in	—	9 mm	3/16 in	103 mm	Ruko Tools	**783YJ0**
	13/64 in to 1 7/32 in	—	10 mm	3/16 in	87 mm	Ruko Tools	**783YH7**
	5/8 in to 1 3/16 in	—	9 mm	5/8 in	76 mm	Ruko Tools	**783YG9**
	15/16 in to 1 9/16 in	—	10 mm	15/16 in	89 mm	Ruko Tools	**783YH2**
	1 9/16 in to 2 3/8 in	—	13 mm	1 9/16 in	103 mm	Ruko Tools	**783YH5**
Hex-Shank Impact-Rated Step Drill Bits							
Cobalt, Black Oxide Finish							
6	3/16 in to 1/2 in	1/16 in	—	5/16 in	3 1/4 in	IRWIN	**2CJR4**
13	1/8 in to 1/2 in	1/32 in	—	1/8 in	3 3/16 in	IRWIN	**2CJR3**
High Speed Steel, Black Oxide Finish							
1		—	1/4 in	1 in	2 1/4 in	LENOX	**761Y43**
	1/2 in	5/32 in	—	—	1 5/8 in	IRWIN	**4A950**
6	3/16 in to 1/2 in	1/16 in	—	5/16 in	3 1/4 in	IRWIN	**4A949**
10	4 mm to 22 mm	2 mm	3/8 in	3.5 mm	2 15/16 in	IRWIN	**21Y397**
13	1/8 in to 1/2 in	1/32 in	—	1/8 in	3 3/16 in	IRWIN	**4A946**
27	3/16 in to 1/2 in	1/16 in	3/8 in	1/8 in, 5/16 in	2 11/16 in, 2 7/8 in, 3 3/16 in, 3 1/4 in	IRWIN	**4XK67**
High Speed Steel, TiAlN Finish							
2	7/8 in to 1 1/8 in	3/4 in	1/4 in	—	3 3/4 in	Milwaukee	**492R88**
6	3/16 in to 1/2 in	1/16 in	1/4 in	—	3 5/8 in	Milwaukee	**492R84**
9	1/8 in to 1 in	1/16 in	1/4 in	—	3 7/8 in	Milwaukee	**492R87**
10	3/16 in to 3/4 in	3/4 in	1/4 in	—	3 1/4 in	Milwaukee	**492R85**
12	3/16 in to 7/8 in	1/16 in	1/4 in	—	3 9/16 in	Milwaukee	**492R86**
13	1/8 in to 1/2 in	1/32 in	1/4 in	—	3 1/16 in	Milwaukee	**492R83**
High Speed Steel, TiN Finish							
2	7/8 in to 1 1/8 in	3/4 in	1/4 in	1 in	3 3/8 in	DeWalt	**34D733**
6	3/16 in to 1/2 in	1/16 in	1/4 in	1 in	3 1/2 in	DeWalt	**34D731**
10	4 mm to 22 mm	2 mm	3/8 in	3.5 mm	2 15/16 in	IRWIN	**21Y402**
12	3/16 in to 7/8 in	1/16 in	1/4 in	1 in	3 3/8 in	DeWalt	**34D732**
13	1/8 in to 1/2 in	1/32 in	—	1/8 in	3 3/16 in	IRWIN	**4XK66**
	1/8 in to 1/2 in	1/32 in	1/4 in	1 in	3 3/8 in	DeWalt	**34D730**

Number Hole Sizes	Size Range	Brand	Item No.
Step Drill Bit Sets			
Cobalt, Black Oxide Finish			
17	1/8 in to 3/4 in	IRWIN	**2CJR9**
High Speed Steel, Black Oxide Finish			
12	3/16 in to 7/8 in	Milwaukee	**451N44**
16	7/8 in to 1 1/8 in	Milwaukee	**451N45**
17	1/8 in to 3/4 in	IRWIN	**41GR65**
17	1/8 in to 7/8 in	Milwaukee	**780U07**
20	1/2 in to 1 1/8 in, 1/8 in to 1/2 in, 3/16 in to 7/8 in	Westward	**6EXN2**
21	1/8 in to 1 in	LENOX	**4XL29**
22	1/8 in to 1 3/8 in	LENOX	**2LML6**
31	1/8 in to 1 3/8 in	Milwaukee	**19RK84**
31	1/8 in to 7/8 in	Milwaukee	**19RK83**
32	4 mm to 35 mm	Milwaukee	**48UT25**
39	1/8 in to 1 1/8 in	Milwaukee	**19RK85**
41	1/8 in to 1/2 in, 13/16 in to 1 3/8 in, 3/16 in to 1/2 in, 3/16 in to 7/8 in	IRWIN	**3YDW5**
High Speed Steel, TiAlN Finish			
24	1/8 in to 1 in	Milwaukee	**492R90**
27	1/8 in to 1 1/8 in	Milwaukee	**492R91**
31	1/8 in to 7/8 in	Milwaukee	**492R89**
High Speed Steel, TiN Finish			
17	1/4 in to 3/4 in, 1/8 in to 1/2 in, 3/16 in to 1/2 in	IRWIN	**4XK73**
31	1/8 in to 7/8 in	DeWalt	**34D734**
Tube & Sheet Drill Bit Sets			
High Speed Steel, Bright (Uncoated) Finish			
6	1/8 in to 1 3/16 in	Ruko Tools	**783YJ4**
High Speed Steel, TiN Finish			
6	1/8 in to 1 3/16 in	Ruko Tools	**783YJ6**
6	3 mm to 30.5 mm	Ruko Tools	**783YJ5**

Understanding Hole Saws and Hole Cutters

Hole saws and **hole cutters** connect to handheld power drills and cut holes faster than drill bits in wood, metal, and other materials. Their narrow cutting edge forms a ring and removes a core of material from a workpiece. **Hole saws** have a linear-edge blade welded to the rim. **Hole cutters** have individual carbide-tipped cutting teeth, and generally have fewer teeth and a thicker body to cut more aggressively than hole saws. **Arbors** attach a hole saw or cutter to a drill. Their shank fits into the drill chuck and their collar holds the saw or cutter. An arbor may be **built-in** with its collar fixed to the saw or cutter, **included** so it can attach or detach for use on another tool, or **not included**.

Hole Saw

Hole Cutter

Standard Metal-Cutting
3EJD7

Impact-Rated Metal-Cutting
32PK28

DeWALT · WESTWARD · Milwaukee · LENOX · ROTHENBERGER

Metal-Cutting Hole Saw Kits

Standard hole saws fit standard power drills to cut steel, mild alloys, and aluminum, such as sheet metal and thin plate metal. **Impact-rated hole saws** fit impact drivers to cut steel, aluminum, and some stainless steel.

No. of Pieces	Saw Size Range	Max. Cutting Depth	Tooth Material	Teeth per Inch	Brand	Item No.
Standard Metal-Cutting Hole Saw Kits						
Arbor Built-In						
3	⅞ in to 1 ⅜ in	¼ in	Steel	2	DeWalt	**44YX82**
Arbor Included						
8	¾ in to 2 ¼ in	1 ½ in	Bi-Metal	4/6	Westward	**12G708**
	⅞ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**1VXK2**
	⅞ in to 2 ⅛ in	1 ½ in	Bi-Metal	4/6	Westward	**12G707**
9	¾ in to 2 ¼ in	1 ¾ in	Steel	⅘	DeWalt	**6UT72**
10	¾ in to 1 ½ in	1 ⅝ in	Bi-Metal	4	Milwaukee	**489P12**
	1 ½ in to 4 ½ in	1 ⅝ in	Bi-Metal	4	Milwaukee	**55EA24**
11	⅞ in to 2 ½ in	1 ⅝ in	High Speed Steel	4	Milwaukee	**3EJD7**
	⅞ in to 2 ½ in	1 ⅞ in	Carbide Tipped	3	LENOX	**60HJ31**
12	¾ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**1VXK3**
13	¾ in to 2 ½ in	1 ⅝ in	High Speed Steel	4	Milwaukee	**11C836**
16	¾ in to 4 ¾ in	1 ⅝ in	High Speed Steel	4	Milwaukee	**11C837**
	¾ in to 2 ½ in	1 ⅝ in	High Speed Steel	4	Milwaukee	**11C839**
19	¾ in to 4 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**1VXK4**
29	¾ in to 4 ¾ in	1 ⅝ in	High Speed Steel	4	Milwaukee	**3EJD9**
30	¾ in to 6 in	1 ½ in	Bi-Metal	4/6	Westward	**12G709**
Arbor Not Included						
6	⅝ in to 1 ¼ in	10 mm	Tungsten Carbide		Rothenberger	**60PZ98**
7	¾ in to 1 ⅜ in	10 mm	Tungsten Carbide		Rothenberger	**60PZ97**
	⅞ in to 1 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX19**
Impact-Rated Metal-Cutting Hole Saw Kits						
Arbor Built-In						
3	⅞ in to 1 ⅜ in	½ in	High Speed Steel	8	Milwaukee	**32PK28**
Arbor Included						
5	¾ in to 1 ⅜ in	½ in	Steel	6/7	DeWalt	**5XFA4**

Milwaukee

Wood-Cutting Hole Cutter Kits

- 3 carbide teeth

Cut holes in wood, MDF, and plywood. These hole cutters are often used in joist drills to cut quickly through 2x4s.

483K83

No. of Pieces	Saw Size Range	Max. Cutting Depth	Item No.
7	2 ⅛ in to 3 ⅝ in	2 ¼ in	**483K82**
8	2 ⅛ in to 3 ⅝ in	2 ¼ in	**483K83**
10	2 ⅛ in to 4 ¼ in	2 ¼ in	**483K84**

WESTWARD · GREENLEE · Milwaukee · MORSE · IDEAL

Metal-Cutting Hole Cutter Kits

For use on metal workpieces for tasks such as cutting knockouts in electrical panels.

Arbor Built-In
34F138

No. of Pieces	Saw Size Range	Max. Cutting Depth	Tooth Material	Number of Teeth	Brand	Item No.
Arbor Not Included						
10	⅞ in to 2 ½ in	3/16 in	Carbide Tipped	—	Westward	**6EXN7**
11	⅞ in to 2 ½ in	¼ in	High Speed Steel	7/8/10/14/15/17	Greenlee	**4GB13**
Arbor Included						
4	⅞ in to 1 ⅜ in	⅛ in	Carbide Tipped	4/4/4	Greenlee	**1ANZ1**
5	11/16 in to 15/16 in	½ in	Carbide Tipped	6	Milwaukee	**48Z662**
	⅞ in to 1 ⅜ in	⅛ in	Carbide Tipped	4	Milwaukee	**48Z664**
7	11/16 in to 1 1/16 in	1 in	Carbide Tipped	—	Morse	**48ZU45**
	11/16 in to 1 ⅜ in	½ in	Carbide Tipped	6	Milwaukee	**48Z663**
	⅞ in to 2 in	⅛ in	Carbide Tipped	6	Milwaukee	**48Z665**
Arbor Built-In						
4	⅞ in to 1 ⅜ in	⅛ in	Carbide Tipped	5/6/8	Greenlee	**1ANV9**
	⅞ in to 1 ⅜ in	¼ in	Carbide Tipped	5/6/7	IDEAL	**10F520**
6	⅞ in to 1 ⅜ in	⅛ in	Carbide Tipped	—	Morse	**48ZU46**
8	⅞ in to 2 ½ in	¼ in	Carbide Tipped	5/6/7/9/10/12	IDEAL	**10F522**
	⅞ in to 2 in	⅛ in	Carbide Tipped	4/4/6/6	Greenlee	**34F138**
9	⅞ in to 2 ½ in	⅛ in	Carbide Tipped	—	Morse	**48ZU47**

WESTWARD · MORSE · DeWALT · GREENLEE

Wood-Cutting Hole Saw Kits

Cut holes in wood, plywood, and MDF. The pilot bit prevents the hole saw from walking or moving when it starts the cut.

Arbor Included
1LPR4

No. of Pieces	Saw Size Range	Max. Cutting Depth	Tooth Material	Teeth per Inch	Brand	Item No.
Arbor Built-In						
3	1 in to 2 ⅛ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX11**
9	¾ in to 1 ¾ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX25**
15	¾ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX23**
Arbor Included						
4	1 in to 2 ⅛ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WP36**
5	1 in to 2 ⅛ in	1 ¾ in	Steel	⅘	DeWalt	**5TY57**
9	⅞ in to 2 ½ in	1 ¾ in	Steel	⅘	DeWalt	**6UT74**
10	½ in to 2 in	1 ⅝ in	Bi-Metal	¾	Greenlee	**35MJ17**
13	¾ in to 2 ½ in	1 ¾ in	Steel	⅘	DeWalt	**1LPR4**
Arbor Not Included						
6	2 ½ in to 4 in	1 ⅝ in	Bi-Metal	—	Greenlee	**35MJ18**
8	⅞ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX18**
9	⅞ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX13**
10	¾ in to 2 ¼ in	1 ⅝ in	Bi-Metal	Variable Pitch	Greenlee	**35MH74**
12	¾ in to 2 ½ in	1 ⅝ in	Bi-Metal	Variable Pitch	Greenlee	**35MH76**
14	⅞ in to 4 ½ in	1 ⅝ in	Bi-Metal	—	Greenlee	**35MJ19**
16	¾ in to 4 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX16**

QEP

Diamond Grit Hole Saw Kit for Masonry & Tile

Diamond grit cuts faster and has a longer life span than carbide grit when cutting masonry and stone.

No. of Pieces	Max. Cutting Depth	Item No.
3	1 ⅜ in	**35T135**

Multipurpose Hole Saw Kits

Cut holes in a variety of materials including wood, plastic, laminate, and some metals. The arbor holds the pilot bit and secures the hole saw in the drill. The pilot bit keeps the hole saw from walking or moving when it starts the cut.

Arbor Included 466K06

No. of Pieces	Saw Size Range	Max. Cutting Depth	Tooth Material	Teeth per Inch	Brand	Item No.
Arbor Included						
7	⅞ in to 1 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM38**
8	¾ in to 2 ¼ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WP29**
9	⅞ in to 2 ½ in	1 ¾ in	Carbide Tipped	4	Milwaukee	**466K06**
9	1 ⅜ in to 4 ¼ in	1 ⅝ in	Carbide Tipped	3	Milwaukee	**788WF8**
10	⅞ in to 2 ½ in	1 ⅝ in	Carbide Tipped	3	Milwaukee	**788WF5**
11	¾ in to 2 ½ in	1 ⅞ in	—	5/6	Morse	**54HN56**
11	¾ in to 2 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WP26**
12	¾ in to 2 ⅝ in	—	Bi-Metal	3.5	Milwaukee	**61UX06**
12	¾ in to 2 ⅝ in	1 ⅝ in	Carbide Tipped	3	Milwaukee	**788WF6**
13	⅞ in to 2 ½ in	1 ⅝ in	Carbide Tipped	4	Milwaukee	**55EA23**
13	⅞ in to 4 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM61**
14	¾ in to 3 in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM40**
15	¾ in to 3 in	1 ⅝ in	Carbide Tipped	3	Milwaukee	**788WF7**
15	¾ in to 4 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM52**
19	¾ in to 4 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM62**
21	¾ in to 5 in	—	Bi-Metal	3.5	Milwaukee	**61UX11**
24	¾ in to 4 ¾ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WM67**
26	¾ in to 4 ½ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WP34**
29	¾ in to 4 ¾ in	1 ⅞ in	Bi-Metal	5/6	Morse	**53WP33**
Arbor Not Included						
13	¾ in to 2 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX21**
13	⅞ in to 4 ½ in	1 ½ in	Bi-Metal	4/6	Westward	**29VX20**

Metal-Cutting Hole Saws

- Make clean cuts in common metals such as steel, aluminum, and mild-steel alloys.

Saw Dia.	Teeth per Inch	Max. Cutting Depth	Thread Size	Brand	Item No.
Arbor Built-In					
Bi-Metal Tooth Material					
¾"	5/6	1⅞"	½"-20	Morse	**54HP12**
¾"	8	⅛"	—	Milwaukee	**32PK29**
¾"	10	½"	—	DeWalt	**4NZV4**
⅞"	5/6	1⅞"	½"-20	Morse	**54HP14**
⅞"	8	⅛"	—	Milwaukee	**32PK30**
1"	5/6	1⅞"	½"-20	Morse	**54HP16**
1"	8	⅛"	—	Milwaukee	**32PK31**
1⅛"	5/6	1⅞"	½"-20	Morse	**54HP18**
1⅛"	8	⅛"	—	Milwaukee	**32PK32**
1¼"	5/6	1⅞"	⅝"-18	Morse	**54HP21**
1⅜"	5/6	1⅞"	⅝"-18	Morse	**54HP23**
1⅜"	8	⅛"	—	Milwaukee	**32PK34**
1½"	5/6	1⅞"	⅝"-18	Morse	**54HP25**
1½"	10	½"	—	DeWalt	**4NZW1**
1¾"	5/6	1⅞"	⅝"-18	Morse	**54HP29**
2"	5/6	1⅞"	⅝"-18	Morse	**54HP32**
2⅛"	5/6	1⅞"	⅝"-18	Morse	**54HP34**
2½"	5/6	1⅞"	⅝"-18	Morse	**54HP38**
2¾"	5/6	1⅞"	⅝"-18	Morse	**54HP41**
3"	5/6	1⅞"	⅝"-18	Morse	**54HP43**
4"	5/6	1⅞"	⅝"-18	Morse	**54HP51**
Carbide Tipped Tooth Material					
⅞"	2	¼"	—	DeWalt	**44YY02**
1⅛"	2	¼"	—	DeWalt	**44YX87**
1⅜"	2	¼"	—	DeWalt	**44YX90**
2"	2	¼"	—	DeWalt	**44YX94**
Arbor Not Included					
Bi-Metal Tooth Material					
¾"	5/6	1⅞"	½"-20	Morse	**53WM45**
⅞"	5/6	1⅞"	½"-20	Morse	**53WM48**
⅞"	⅘	1¾"	½"-20	DeWalt	**60NN42**
1"	5/6	1⅞"	½"-20	Morse	**53WM51**
1⅛"	5/6	1⅞"	½"-20	Morse	**53WM54**
1¼"	5/6	1⅞"	⅝"-18	Morse	**53WM57**
1⅜"	5/6	1⅞"	⅝"-18	Morse	**53WM63**
1½"	5/6	1⅞"	⅝"-18	Morse	**53WM68**
1½"	⅘	1¾"	⅝"-18	DeWalt	**29DZ03**
1¾"	5/6	1⅞"	⅝"-18	Morse	**53WN89**
2"	5/6	1⅞"	⅝"-18	Morse	**53WN94**
2"	⅘	1¾"	⅝"-18	DeWalt	**29DZ10**
2"	⅘	1¾"	⅝"-18	DeWalt	**60NN59**
2¼"	5/6	1⅞"	⅝"-18	Morse	**53WN98**
2½"	5/6	1⅞"	⅝"-18	Morse	**53WP03**
2 9/16"	5/6	1⅞"	⅝"-18	Morse	**53WP04**
3"	5/6	1⅞"	⅝"-18	Morse	**53WP11**
4"	5/6	1⅞"	⅝"-18	Morse	**53WP20**
4½"	5/6	1⅞"	⅝"-18	Morse	**53WP24**
5"	5/6	1⅞"	⅝"-18	Morse	**53WP27**
5½"	5/6	1⅞"	⅝"-18	Morse	**53WP30**
5¾"	5/6	1⅞"	⅝"-18	Morse	**53WP31**
6"	5/6	1⅞"	⅝"-18	Morse	**53WP32**
6"	⅘	1¾"	⅝"-18	DeWalt	**29DZ36**

Arbor Built-In Bi-Metal Tooth Material 54HP16

Arbor Not Included Bi-Metal Tooth Material 29DZ03

Arbor Not Included Bi-Metal Tooth Material 53WP04

Saw Dia.	Number of Teeth	Max. Cutting Depth	Brand	Item No.
Arbor Included				
High Speed Steel Tooth Material				
⅞ in	14	¼ in	Greenlee	**1XRN8**
1⅛ in	14	¼ in	Greenlee	**1XRN9**
2½ in	14	¼ in	Greenlee	**1XRP6**
Arbor Not Included				
Carbide Tipped Tooth Material				
1 in	4	⅛ in	Milwaukee	**48Z646**
1⅛ in	4	⅛ in	Milwaukee	**48Z647**
1¼ in	4	⅛ in	Milwaukee	**48Z649**
1⅜ in	4	⅛ in	Milwaukee	**48Z651**
1¾ in	6	⅛ in	Milwaukee	**48Z654**
2 in	6	⅛ in	Milwaukee	**48Z655**
2½ in	6	⅛ in	Milwaukee	**48Z659**
3 in	6	⅛ in	Milwaukee	**48Z661**
Steel Tooth Material				
11/16 in	6	½ in	Milwaukee	**48Z630**
¾ in	6	½ in	Milwaukee	**48Z631**
13/16 in	6	½ in	Milwaukee	**48Z632**
⅞ in	6	½ in	Milwaukee	**48Z633**
15/16 in	6	½ in	Milwaukee	**48Z634**
1 in	6	½ in	Milwaukee	**48Z635**
1⅛ in	6	½ in	Milwaukee	**48Z637**
1¼ in	6	½ in	Milwaukee	**48Z639**
Tungsten Carbide Tooth Material				
⅞ in	4	⅛ in	Greenlee	**1FAH8**
1¾ in	6	⅛ in	Greenlee	**1FAJ2**

1XRP6

48Z631

Metal-Cutting Hole Cutters

Use on steel and steel-alloy workpieces for tasks such as cutting knockouts in electrical panels. They also cut stainless steel, aluminum, and other soft alloys.

Saw Dia.	Teeth per Inch	Max. Cutting Depth	Thread Size	Brand	Item No.
Arbor Not Included					
Bi-Metal Tooth Material					
⅝ in	3.5	1⅝ in	½"-20	Milwaukee	**3EPX1**
¾ in	3.5	1⅝ in	½"-20	Milwaukee	**3EPY2**
⅞ in	3.5	1⅝ in	½"-20	Milwaukee	**3ERF4**
⅞ in	4	1⅝ in	½"-20	Milwaukee	**466J86**
1 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGL9**
1⅛ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN1**
1⅛ in	4	1⅝ in	½"-20	Milwaukee	**466J88**
1¼ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN2**
1⅜ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN3**
1½ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN4**
1½ in	4	1⅝ in	⅝"-18	Milwaukee	**466J91**
1⅝ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN5**
1¾ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN6**
1¾ in	4	1⅝ in	⅝"-18	Milwaukee	**466J92**
1⅞ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN7**
2 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGN8**
2 in	4	1⅝ in	⅝"-18	Milwaukee	**466J94**
2⅛ in	3.5	1⅝ in	⅝"-18	Milwaukee	**3TGN9**
2¼ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP1**
2⅜ in	3.5	1⅝ in	½"-20	Milwaukee	**12T009**
2½ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP2**
2½ in	4	1⅝ in	⅝"-18	Milwaukee	**466J97**
2 9/16 in	3.5	1⅝ in	½"-20	Milwaukee	**12T010**
2⅝ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP3**
2¾ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP4**
3 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP5**
3¼ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP6**
3½ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP7**
3⅝ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP8**
3¾ in	3.5	1⅝ in	½"-20	Milwaukee	**12T014**
4 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGP9**
4 in	4	1⅝ in	⅝"-18	Milwaukee	**466K03**
4⅛ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGR1**
4¼ in	3.5	1⅝ in	⅝"-18	Milwaukee	**3TGR2**
4½ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGR3**
4½ in	4	1⅝ in	⅝"-18	Milwaukee	**466K05**
4¾ in	3.5	1⅝ in	½"-20	Milwaukee	**3TGR4**
5 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGR5**
5½ in	3.5	1⅝ in	½"-20	Milwaukee	**12T017**
6 in	3.5	1⅝ in	½"-20	Milwaukee	**3TGR6**
6 in	4/6	1⅞ in	½"-18	Spyder	**31LV50**
6⅝ in	4/6	1⅞ in	½"-18	Spyder	**31LV51**
Carbide Tipped Tooth Material					
¾ in	1	2 in	⅜"-20	Spyder	**31LV52**
⅞ in	1	2 in	⅜"-20	Spyder	**31LV53**
1 in	1	2 in	⅜"-20	Spyder	**31LV54**
1⅛ in	1	2 in	⅜"-20	Spyder	**31LV55**
1⅝ in	1	2 in	½"-18	Spyder	**31LV59**
1⅞ in	1	2 in	½"-18	Spyder	**31LV61**
2⅛ in	1	2 in	½"-18	Spyder	**31LV63**
3⅜ in	1	6¼ in	⅝"-18	Spyder	**38HY34**
4¼ in	1	2 in	½"-18	Spyder	**31LV76**
5 in	1	2 in	½"-18	Spyder	**31LV78**
6 in	1	6¼ in	⅝"-18	Spyder	**38HY28**
6⅝ in	1	2 in	½"-18	Spyder	**31LV80**

Wood-Cutting Hole Saws

Make holes in wood, MDF, and plywood. They cut quickly through 2x4s.

Bi-Metal 466J97

Carbide Tipped 31LV53

Wood-Cutting Hole Cutters

- Arbor not included
- Bi-metal tooth material
- 3 teeth
- 2⅛" max. cutting depth
- ⅝"-18 thread size

Saw Dia.	Item No.
1⅜ in	**483K69**
1¾ in	**483K70**
2⅛ in	**483K71**
2 9/16 in	**483K73**
3 in	**483K75**
3⅝ in	**483K76**
4 in	**483K77**
4¼ in	**483K78**
4⅝ in	**483K79**
5¼ in	**483K80**
6¼ in	**483K81**

483K81

LENOX WESTWARD

Arbor Not Included
29VU25

Multipurpose Hole Saws

Cut through multiple types of materials without changing the hole saw. Compatible materials include wood, sheet metal, plastic, and laminate.

Saw Dia.	Teeth per Inch	Max. Cutting Depth	Thread Size	Brand	Item No.
Arbor Included					
Bi-Metal					
2½ in	⅘	1⅞ in	—	LENOX	**60FF07**
4½ in	⅘	1⅞ in	—	LENOX	**60FF15**
Arbor Not Included					
Bi-Metal					
1¼ in	4/6	1½ in	⅝ in-18	Westward	**29VU08**
1⅜ in	4/6	1½ in	⅝ in-18	Westward	**29VU10**
1¾ in	4/6	1½ in	⅝ in-18	Westward	**29VU16**
2¼ in	4/6	1½ in	⅝ in-18	Westward	**29VU22**
2½ in	4/6	1½ in	⅝ in-18	Westward	**29VU25**
3 in	4/6	1½ in	⅝ in-18	Westward	**29VU30**
4 in	4/6	1½ in	⅝ in-18	Westward	**29VU38**
5¼ in	4/6	1½ in	⅝ in-18	Westward	**29VU45**
Carbide Tipped					
2 in	3	1⅞ in	⅝ in-18	LENOX	**60HJ09**

MORSE GREENLEE

Arbor Built-In
45FC16

Multipurpose Hole Cutters

Used on single or mixed materials, such as wood, metal, plastic, and nail-embedded wood.

Saw Dia.	Number of Teeth (Hole Cutters Only)	Max. Cutting Depth	Brand	Item No.
Arbor Built-In				
Carbide Tipped				
9/16 in	6	1 in	Morse	**45FA89**
⅝ in	6	1 in	Morse	**45FA90**
11/16 in	6	1 in	Morse	**45FA91**
¾ in	6	1 in	Morse	**36FV29**
¾ in	8	⅛ in	Morse	**36FV43**
13/16 in	6	1 in	Morse	**45FA93**
⅞ in	6	1 in	Morse	**36FV30**
⅞ in	8	⅛ in	Morse	**36FV44**
1 in	6	1 in	Morse	**36FV31**
1 in	8	⅛ in	Morse	**36FV45**
1 1/16 in	6	1 in	Morse	**45FA96**
1⅛ in	6	1 in	Morse	**36FV32**
1⅛ in	8	⅛ in	Morse	**36FV46**
1 3/16 in	6	1 in	Morse	**45FA97**
1¼ in	6	1 in	Morse	**36FV33**
1⅜ in	6	1 in	Morse	**36FV34**
1⅜ in	8	⅛ in	Morse	**36FV48**
1½ in	6	1 in	Morse	**36FV35**
1½ in	6	1 in	Morse	**45FC02**
1⅝ in	6	1 in	Morse	**36FV36**
1¾ in	6	1 in	Morse	**36FV37**
1⅞ in	6	1 in	Morse	**36FV38**
2 in	6	1 in	Morse	**36FV39**
2 in	8	⅛ in	Morse	**36FV53**
2⅛ in	8	⅛ in	Morse	**45FA60**
2⅜ in	8	⅛ in	Morse	**45FA64**
2½ in	6	1 in	Morse	**45FC11**
2½ in	8	⅛ in	Morse	**45FA66**
3 in	6	1 in	Morse	**45FC16**
3 in	8	⅛ in	Morse	**45FA74**
Arbor Not Included				
Tungsten Carbide				
1⅛ in	4	⅛ in	Greenlee	**1FAH9**
1⅜ in	4	⅛ in	Greenlee	**1FAJ1**
2 in	6	⅛ in	Greenlee	**1FAJ3**

Milwaukee

Drywall-Cutting Hole Saws

- Arbor not included
- 1" max. cutting depth

36FX66

Saw Dia.	Teeth per Inch	Thread Size	Item No.
2 in to 7 in	2	—	**36FX66**
3⅛ in	Continuous Grit	⅝ in-18	**11C840**
4⅜ in	Continuous Grit	⅝ in-18	**11C841**
5⅜ in	Continuous Grit	⅝ in-18	**11C842**
6⅞ in	Continuous Grit	⅝ in-18	**11C845**

Milwaukee MORSE

Masonry & Tile-Cutting Hole Saws

An abrasive-grit rim cuts into cement block, tile, stone, and other hard materials.

Arbor Built-In
36RE22

Arbor Not Included
33UH19

Saw Dia.	Teeth per Inch	Max. Cutting Depth	Max. Cutting Depth	Thread Size	Brand	Item No.
Arbor Built-In						
3/16 in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH24**
¼ in	Continuous Grit	½ in	½ in	—	Morse	**40L153**
¼ in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH25**
5/16 in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH26**
⅜ in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH27**
½ in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH28**
¾ in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH30**
1 in	Continuous Grit	½ in	½ in	—	Morse	**40L159**
1 in	Continuous Grit	1 in	1 in	—	Milwaukee	**33UH31**
1⅜ in	Continuous Grit	½ in	½ in	—	Morse	**40L160**
1½ in	Continuous Grit	½ in	½ in	—	—	**36RE18**
2½ in	Continuous Grit	½ in	½ in	—	—	**36RE22**
Arbor Not Included						
1⅛ in	4	1½ in	1½ in	½ in-20	Milwaukee	**33UH14**
1¼ in	4	1½ in	1½ in	⅝ in-18	Milwaukee	**33UH15**
1⅜ in	4	1½ in	1½ in	⅝ in-18	Milwaukee	**33UH16**
1½ in	4	1½ in	1½ in	⅝ in-18	Milwaukee	**33UH17**
2 in	4	1½ in	1½ in	⅝ in-18	Milwaukee	**33UH18**
2½ in	4	1½ in	1½ in	⅝ in-18	Milwaukee	**33UH19**
2 9/16 in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN86**
3 in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN90**
3½ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN94**
3⅝ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN95**
4 in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN98**
4⅛ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN99**
4¼ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP01**
4½ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP03**
4¾ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP04**
5 in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP05**
5½ in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP06**
6 in	Gulleted	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HP08**
6⅜ in	Continuous Grit	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN57**
6⅞ in	Continuous Grit	1⅞ in	1⅞ in	⅝ in-18	Morse	**54HN59**

Quick Change Arbor Type
31LV84

Standard Arbor Type
1XRP7

SPYDER Milwaukee GREENLEE MORSE

Hole Saw Arbors

- All include pilot bit, except 33UH20

These arbors are interchangeable with hole saws that have the same shank size.

Thread Size	Arbor Shank Style	Arbor Shank Size	Fits Hole Saw Dia. - Imperial	Brand	Item No.
Quick Change Arbor Type					
½ in-20	Hex	½ in	9/16 in to 1¼ in	Spyder	**31LV84**
⅝ in-18	Flat	7/16 in	1¾ in to 6¼ in	Milwaukee	**483K86**
⅝ in-18	Hex	⅜ in	1¼ in and Larger	Milwaukee	**5TJC9**
⅝ in-18	Hex	⅝ in	1⅜ in to 6⅝ in	Spyder	**31LV81**
Unthreaded	Flat	½ in	¾ in to 3 in	Milwaukee	**48Z567**
Unthreaded	Hex	⅜ in	⅝ in to 2¼ in	Greenlee	**1XRN5**
Standard Arbor Type					
⅜ in-20	Hex	⅜ in	⅞ in to 1 7/32 in	Greenlee	**1XRP7**
½ in-20	Hex	¼ in	9/16 in to 1 3/16 in	Morse	**53WM32**
½ in-20	Hex	5/16 in	9/16 in to 1 3/16 in	Greenlee	**35MJ24**
½ in-20	Hex	⅜ in	9/16 in to 1 3/16 in	Morse	**53WM34**
½ in-20	Hex	⅜ in	Up to 1 3/16 in	Milwaukee	**3TGR9**
½ in-20	Hex	7/16 in	9/16 in to 1 3/16 in	Greenlee	**35MJ21**
½ in-20	Hex	7/16 in	Up to 1 3/16 in	Milwaukee	**5TJC8**
½ in-20	Round	¼ in	Up to 1 3/16 in	Milwaukee	**13N969**
½ in-20	Round with Flats	¼ in	9/16 in to 1 3/16 in	Greenlee	**35MJ23**
⅝ in-18	Hex	5/16 in	1¼ in to 2 in	Greenlee	**35MJ20**
⅝ in-18	Hex	⅜ in	1¼ in to 6 in	Morse	**53WM35**
⅝ in-18	Hex	⅜ in	1¼ in and Larger	Milwaukee	**33UH20**
⅝ in-18	Hex	7/16 in	1¼ in to 6⅝ in	Morse	**53WM36**
⅝ in-18	Hex	7/16 in	1¼ in to 6 in	Greenlee	**35MJ22**
⅝ in-18	Hex	7/16 in	1¼ in to 6 in	Spyder	**38HY16**
Unthreaded	Hex	⅜ in	1⅜ in to 2½ in	Greenlee	**1XRP8**

Pilot Drill Bits

Milwaukee IDEAL GREENLEE MORSE Malco

These bits attach to a hole saw arbor. They extend past the hole saw cutting edge to drill a starter hole that prevents the hole saw from walking when it begins the cut.

Flat Shank Style
10F521

Hex Shank Style
1XRN6

Round Shank Style
53WM37

Size	Overall Length	Material	Brand	Item No.
3-Flat Shank Style				
¼ in	3½ in	Cobalt	Milwaukee	**783WR3**
Flat Shank Style				
¼ in	2 in	Carbide	IDEAL	**10F521**
¼ in	3½ in	High Speed Steel	Milwaukee	**3Y087**
¼ in	4 in	High Speed Steel	Milwaukee	**3Y083**
¼ in	4 in	Carbide	Milwaukee	**13N970**
Hex Shank Style				
¼ in	1⅞ in	Cobalt-Steel	Greenlee	**1XRN7**
¼ in	2½ in	Cobalt-Steel	Greenlee	**1XRN6**
¼ in	2¾ in	High Carbon Steel	Milwaukee	**48Z568**
¼ in	3¼ in	High Speed Steel	Greenlee	**35MJ25**
6-mm	44 mm	High Speed Steel	Greenlee	**1XRR1**
Round Shank Style				
¼ in	2 in	Carbide	Milwaukee	**33UH21**
¼ in	3 3/32 in	High Speed Steel	Morse	**53WM37**
¼ in	3 3/32 in	Carbide	Morse	**53WP35**
¼ in	4 15/16 in	High Speed Steel	Morse	**4WY23**
¼ in	4 5/16 in	High Speed Steel	Malco	**1ELG6**

Arbor Adapter
48Z566

Milwaukee MORSE SPYDER

Arbor Extensions & Adapters

Extensions attach to an existing arbor to extend the reach of a hole saw or hole cutter. Arbor adapters attach an arbor to a tool without a drill chuck, such as an angle grinder.

Arbor Shank Style	Arbor Shank Size	Overall Length	Brand	Item No.
Angle Grinder Adapter				
Round with Flats	⅝ in	1⅝ in	Milwaukee	**33UH22**
Round with Flats	⅝ in	1⅝ in	Milwaukee	**33UH23**
Arbor Adapter				
Flat	⅜ in	—	Milwaukee	**48Z566**
Arbor Extension				
Hex	⅜ in	12 in	Morse	**4VV93**
Hex	⅜ in	12 in	Milwaukee	**13N972**
Hex	⅜ in	12 in	Spyder	**38HY22**
Hex	25/64 in	24 in	Spyder	**38HY24**
Hex	7/16 in	5½ in	Milwaukee	**45L177**
Hex	7/16 in	12 in	Milwaukee	**45L178**
Hex	7/16 in	12 in	Morse	**4XJ26**
Hex	7/16 in	18 in	Milwaukee	**45L179**
Hex	7/16 in	24 in	Milwaukee	**45L180**
Hex	½ in	12 in	Spyder	**38HY26**

Bit Holder 787P85

Ceiling Lag Screwdrivers 32PK69

Covered Bit Holders 5UFH4

Flexible Extension 8YPW1

Drive Guide 38RV72

30HM06

Bit Holders

- Bit holder drive: Hex

Ceiling Lag Screwdrivers—For use when driving ceiling lag screws.

Covered Bit Holders—Have a non-marring cover that provides a protective barrier when using bits on finely finished workpieces

Bit and Flexible Extensions—Help extend your reach for hard-to-access fasteners. Flexible extensions allow access around obstructions to reach fasteners.

Drive Guides—A retracting sleeve helps steady long fasteners and aids in driving fasteners in hard-to-reach applications.

Drive Size	Overall Bit Length	Magnetic/ Nonmagnetic	Fastening Tool Material	Bit Retainer Type	Brand	Item No.	Pkg. Qty.
Bit Holders							
¼" Hex Power Drive Shank Style							
¼"	2"	Magnetic	Steel	O-Ring	Apex	**5UFG0**	1
	2"	Magnetic	Steel	Retaining Ring	Apex	**22PH54**	1
	2 ⅛"	Nonmagnetic	Steel	Retaining Ring	Zephyr	**411A94**	1
	2 ¼"	Magnetic	Steel	O-Ring	Zephyr	**411A90**	1
	2 ⅜"	Magnetic	Steel	Magnetic	Westward	**38RV73**	1
	2 ⅜"	Magnetic	Steel	Retaining Ring	Zephyr	**411A91**	1
	2 ¹⁵⁄₁₆"	Magnetic	Steel	Retaining Ring	Apex	**5UFG2**	1
	2 ³¹⁄₃₂"	Magnetic	Steel	Retaining Ring	Apex	**22PG26**	1
	3"	Magnetic	Steel	Magnetic	Apex	**5UFF8**	100
	3"	Magnetic	Steel	Magnetic	Westward	**38RV74**	1
	3"	Magnetic	Steel	O-Ring	Apex	**5UFG1**	1
	3"	Magnetic	Steel	Retaining Ring	Zephyr	**411A92**	1
	3"	Magnetic	Steel	Retaining Ring	Zephyr	**411A93**	100
	3 ³⁄₃₂"	Magnetic	Steel	Magnetic	Apex	**22PG10**	1
	3 ³⁄₃₂"	Magnetic	Steel	Retaining Ring	Zephyr	**411A86**	1
	3 ³⁄₃₂"	Magnetic	Steel	O-Ring	Zephyr	**411A89**	1
	3 ⅛"	Magnetic	Steel	Retaining Ring	Zephyr	**411A84**	1
	4"	Magnetic	Steel	Retaining Ring	Apex	**6CYU3**	1
	4"	Magnetic	Steel	Retaining Ring	Apex	**22PJ26**	5
	4"	Magnetic	Steel	Magnetic	Zephyr	**411A81**	1
	4"	Magnetic	Steel	Magnetic	Zephyr	**411A82**	5
	4"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PG09**	1
	6"	Magnetic	Steel	Retaining Ring	Apex	**5UFF9**	1
	6"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF83**	1
	10"	Magnetic	Steel	Magnetic	Zephyr	**411A80**	1
⅜"	2 ¹³⁄₁₆"	Magnetic	Steel	Magnetic	Zephyr	**411A88**	1
⁷⁄₁₆"	2 ¹³⁄₁₆"	Magnetic	Steel	Magnetic	Zephyr	**411A87**	1
⁵⁄₁₆" Hex Power Drive Shank Style							
¼"	1 ¹³⁄₁₆"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF97**	1
	3"	Magnetic	Steel	Retaining Ring	Apex	**22PH05**	1
⁷⁄₁₆" Hex Power Drive Shank Style							
¼"	2 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF34**	1
	3 ⁷⁄₁₆"	Magnetic	Steel	Retaining Ring	Apex	**22PG55**	1
⁵⁄₁₆"	2 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PG23**	1
	3 ⁵⁄₁₆"	Magnetic	Steel	Retaining Ring	Apex	**22PG86**	1

Drive Size	Overall Bit Length	Magnetic/ Nonmagnetic	Fastening Tool Material	Bit Retainer Type	Brand	Item No.	Pkg. Qty.
¼" Hex Shank Style							
¼"	2"	Magnetic	Carbon Steel	Retaining Ring	IRWIN	**787P85**	3
	2 ⅛"	Nonmagnetic	Plastic, Steel	Quick Change	Metabo	**53YZ72**	1
	2 ½"	Magnetic	Steel	Quick Change	IRWIN	**6CYU8**	1
	3"	Magnetic	Steel	Retaining Ring	Milwaukee	**45L181**	1
	3"	Magnetic	Steel	Retaining Ring	IRWIN	**783YU1**	3
	6"	Magnetic	Steel	Quick Change	IRWIN	**6CYU9**	1
	8 ½"	Magnetic	Stainless Steel	Magnetic	Proto	**19C220**	1
	11 ⁵⁄₁₆"	Magnetic	Stainless Steel	Magnetic	Proto	**4LV32**	1
	12"	Magnetic	Steel	Quick Change	IRWIN	**6CYV0**	1
	18"	Magnetic	Steel	Magnetic	Eazypower	**42W454**	1
	18"	Magnetic	Steel	Magnetic	Eazypower	**42W455**	6
⁷⁄₁₆" Hex Shank Style							
⁷⁄₁₆"	5 ½"	Magnetic	Steel	Quick Change	IRWIN	**6CYV4**	1
	12"	Magnetic	Steel	Quick Change	IRWIN	**6CYV5**	1
	18"	Magnetic	Steel	Quick Change	IRWIN	**6CYV6**	1
⅜" Hex Shank Style							
⅜"	5 ½"	Magnetic	Steel	Quick Change	IRWIN	**6CYV2**	1
	11"	Magnetic	Steel	Quick Change	IRWIN	**6CYV3**	1
¼" Square Shank Style							
¼"	⅞"	Nonmagnetic	Steel	Retaining Ring	Zephyr	**411A97**	1
	1"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF22**	1
	1 ½"	Nonmagnetic	Steel	Retaining Ring	Zephyr	**411A98**	1
	1 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF45**	1
	2 ⁹⁄₃₂"	Magnetic	Steel	Retaining Ring	Apex	**22PG81**	1
⅜" Square Shank Style							
¼"	1 ½"	Nonmagnetic	Steel	Retaining Ring	Apex	**6CYU7**	1
	2 ⅝"	Magnetic	Steel	Retaining Ring	Apex	**5WGJ2**	1
⁵⁄₁₆"	1 ½"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF20**	1
	2 ¾"	Magnetic	Steel	Retaining Ring	Apex	**5WGJ1**	1
½" Square Shank Style							
¼"	1 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF30**	1
	2 ⅝"	Magnetic	Steel	Retaining Ring	Apex	**5WGJ4**	1
⁵⁄₁₆"	1 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PF29**	1
	2 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**5WGJ3**	1
⁵⁄₁₆" Yankee Shank Style							
¼"	2 ¼"	Nonmagnetic	Steel	Retaining Ring	Apex	**22PG24**	1
Ceiling Lag Screwdrivers							
¼" Hex Shank Style							
¼"	3"	Nonmagnetic	Steel	—	Eazypower	**32PK69**	1
⁵⁄₁₆"	3"	Nonmagnetic	Steel	—	Eazypower	**32PK70**	1
Covered Bit Holders							
¼" Hex Power Drive Shank Style							
¼"	3"	Magnetic	Steel	Retaining Ring	Apex	**5UFH4**	1
	4"	Magnetic	Steel	Retaining Ring	Apex	**52AY58**	1
	6"	Magnetic	Steel	Retaining Ring	Apex	**52AY74**	1
¼" Square Shank Style							
¼"	1"	Nonmagnetic	Steel	Retaining Ring	Apex	**5UFH5**	1
	2 ⁹⁄₃₂"	Magnetic	Steel	Retaining Ring	Apex	**5UFH6**	1
⅜" Square Shank Style							
¼"	1 ½"	Nonmagnetic	Steel	Retaining Ring	Apex	**5UFH9**	1
	2 ⅝"	Magnetic	Steel	Retaining Ring	Apex	**5UFJ0**	1
⁵⁄₁₆"	1 ½"	Nonmagnetic	Steel	Retaining Ring	Apex	**5UFH7**	1
	2 ¾"	Magnetic	Steel	Retaining Ring	Apex	**5UFH8**	1
½" Square Shank Style							
⁵⁄₁₆"	1 ¾"	Nonmagnetic	Steel	Retaining Ring	Apex	**5UFJ1**	1
	2 ¾"	Magnetic	Steel	Retaining Ring	Apex	**5UFJ2**	1
Bit Extensions							
¼" Hex Shank Style							
¼"	3"	Nonmagnetic	Steel	Locking	Milwaukee	**30HM06**	1
Flexible Extensions							
¼" Hex Shank Style							
¼"	11"	Magnetic	Steel	Magnetic	Eazypower	**8NNR2**	1
	18"	Magnetic	Steel	Magnetic	Eazypower	**8FNG1**	1
	24"	Magnetic	Steel	Magnetic	Eazypower	**8FPG3**	1
	36"	Magnetic	Steel	Magnetic	Eazypower	**9AT49**	1
	48"	Magnetic	Steel	Magnetic	Eazypower	**8YPW1**	1
Drive Guides							
¼" Hex Power Drive Shank Style							
¼"	3 ⁵⁄₃₂"	Magnetic	Steel	Magnetic	Westward	**38RV72**	1

Hand Screwdriver Bit Sets 55KH40

Power Screwdriver Bit Set 3MJA9

Screwdriver Bit Sets

Hand screwdriver bit sets include various bits for driving screws and other fasteners by hand tool application. Models are available for industries such as automotive, electronics, and carpentry. Cushion-Grip handles offer greater torque and comfort. Industrial strength steel bits offer durability and long life. **Power screwdriver bit sets** maximize your drilling and driving capabilities with these versatile and durable bit sets.

No. of Pcs.	Hex Shank Size	Includes	Brand	Item No.
Hand Screwdriver Bit Sets				
Bit Set				
10	¼ in, ⁵⁄₁₆ in, ⅜ in	Flat ³⁄₁₆ in, ¼ in, Phillips #1, #2, Square #1, #2, Torx #10, #15	Greenlee	**499N25**
19	¼ in	Phillips #1 3½ in, 6 in, #2 3½ in, 6 in Slotted ³⁄₁₆ in, ¼ in, 3½ in, 6 in, Square #1 3½ in, 6 in, #2 3½ in, 6 in, Slotted ³⁄₁₆ in, ¼ in, 6 in, Nut Driver ¹¹⁄₃₂ in, ⁷⁄₁₆ in, ⁵⁄₁₆ in, ³⁄₁₆ in, ⅜ in, ¼ in, ½ in, 6 in	Greenlee	**499N22**
Insert Bit Set				
10	¼ in	¼ in Magnetic Bit Holder, Phillips #1, #2, #3, Slotted ³⁄₁₆, ⁵⁄₃₂, Torx T10, T15, Storage Box/ Screwdriver Handle	Proto	**4LV24**
Screwdriver Bit Set				
2	¼ in	Torx: T10 and T15, T20 and T25	Megapro	**5PA38**
2	¼ in	Hex: ⅛ and ⁹⁄₆₄, ⁵⁄₃₂ and ³⁄₁₆	Megapro	**5PA41**
2	¼ in	Tamperproof, Torx: T20 and T25, T27 and T30	Megapro	**5PA40**
2	¼ in	Phillips #0 and #3, Square(Robertson) #0 and #3	Megapro	**5PA37**
2	¼ in	Torx: T10 and T15, T20 and T25	Megapro	**2MRT3**
3	¼ in	Spanner: #6 and #8, #10 and #12, Torx T10 and T15	Megapro	**5PA39**
3	¼ in	Slotted #4 and 6, Phillips 1 and 2, Square(Robertson) 1 and 2	Megapro	**5PA36**
28	¼ in	(2) 1 in PH1, (3) 1 in PH2, (2) 1 in SL8, (1) 1 in Q1, (1) 1 in Q2, (2) 2 in PH1, (2) 2 in PH2, (1) 3.5 in PH2, (1) 3.5 in SQ2, (1) Compact Magnetic Drive Guide, (1) Magnetic Drive, (1) ¼ adapter socket, (1) ⅜ Hex Adapter, (2) ¹⁄₁₆ in, (1) ³⁄₃₂ in, (1) ⅛ in, (1) ⁵⁄₃₂ in, (1) ³⁄₁₆ in, (1) ¼ Nutsetter, (1) ⁵⁄₁₆ Nutsetter, (1) 3 in Holder	DeWalt	**55KH37**
32	¼ in	1 in PH1, (5) 1 in PH2, 1 in SL8, 1 in Q1, 1 in Q2, (2) 2 in PH1, (2) 2 in PH2, 2 in SL8, 2 in SL10, 2 in Q2, Power Dimpler, 3.5 in SQ2, Compact Magnetic Drive, ½ in Spade, ¾ in Spade, ¼ in Nutsetter, ⁵⁄₁₆ in Nutsetter, ¼ in Adapter, ⅜ in Adapter, 3 in Holder, ¹⁄₁₆ in, ³⁄₃₂ in, ⅛ in, ⁵⁄₃₂ in, ³⁄₁₆ in	DeWalt	**55KH38**
35	¼ in	1 in PH1, (4) 1 in PH2, 1 in SL8, 1 in Q1, (2) 1 in Q2, (2) 2 in PH1, (4) 2 in PH2, 2 in PH3, 2 in SL8, 2 in SL10, (2) 2 in Q2, 2 in T20, 2 in T25, 3.5 in PH2, ½ in Spade, ¾ in Spade, ¼ in Nutsetter, ⁵⁄₁₆ in Nutsetter, (2) ¹⁄₁₆ in, ³⁄₃₂ in, ⅛ in, ⁵⁄₃₂ in, ³⁄₁₆ in, Compact Magnetic Drive, 3 in Holder	DeWalt	**55KH39**

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CONTINUED

Screwdriver Bit Sets

GREENLEE · PROTO · MEGAPRO Every bit better. · DEWALT · LEATHERMAN · IRWIN · VEGA · Wiha · Milwaukee · eazypower · Supplier Diversity · KLEIN TOOLS · Wera

No. of Pcs.	Hex Shank Size	Includes	Brand	Item No.
Hand Screwdriver Bit Sets (Cont.)				
Screwdriver Bit Set (Cont.)				
42	¼ in	Square Drive #1 x #2, Torx T15 x Hex 7/64 in, Torx #6 x #8, Torx #10 x #15, Torx #20 x #25, Torx #27 x #30, Eyeglasses Screwdriver, Pozi #2 x #1, Hex 1.5mm x 2.0mm, Hex 2.5mm x 3.0mm, Hex 4.0mm x 5.0mm, Hex 6mm and ¼ in, Hex 7/32 in x 3/16 in, Hex 5/32 in x 9/64 in	Leatherman	**19LY98**
65	¼ in	(7) 1 in PH2, (3) 1 in SQ2, 1 in Star Bits T15, (2) 1 in Star Bits T20, 1 in Star Bits T25, (2) 1 in PH2, 2 in SQ2, 1 in SL8, Magnetic Holder, ¼ in Nutsetter, 5/16 in Nutsetter, ¼ in Adaptor, Compact Magnetic Drive, 6 in ½ Spade, 6 in ¾ in Spade, 6 in ⅞ Spade, ⅜ Socket, 7/16 Socket, ½ Socket, 9/16 Socket, (2) 1/16 in, (2) 5/64 in (2) 3/32 in, (2) 7/64 in, (2) ⅛ in, 9/64 in, 3/16 in, 13/64 in, 7/32 in, 15/64 in, ¼ in ⅜ in, Small Stoarge, (2) 1 in PH1, (4) 1 in PH2, (2) 1 in PH3, (2) 1 in SQ1, 1 in Star Bit T15, (2) 1 in SL6, (2) 1 in SL8, (2) 1 in SL10, 1 in Star Bit T25	DeWalt	**55KH40**
80	¼ in	(6) 1 in PH2, (5) 1 in Q2, (5) 1 in T20, (5) 1 in T25, (2) 2 in Q2, 2' SL8, (2) 2 in PH2, 2 in T20, 2 in T25, 3.5 in SL8, 3.5 in SQ2, 3.5 in PH2, 3.5 in PH1, Magentic Compact Drive, ¼ Nutsetter, 5/16 Nutsetter, ⅜ Nutsetter, ¼ Adapter Socket, ⅜ Adapter Socket, (2) 1/16 in, (2) 5/64 in, (2) 3/32 in, (2) 7/64 in, (2) ⅛ in, 9/64 in, 3/16 in, 13/64 in, 7/32 in, 15/64 in, ¼ in, ⅜ in,small storage, (2) 1 in PH1, (3) 1 in PH3, (3) 1 in SL6, (3) 1 in SL8, (3) 1 in SL10, (2) 1 in Q1, (2) 1 in Q3, 1 in T10, (3) 1 in T15, 1 in T30, 1 in T40, Bit Holder	DeWalt	**55KH41**
Impact Screwdriver Bit Sets				
Insert Bit Set				
5	¼ in	Phillips, Slotted, Square, Torx	IRWIN	**55KG85**
6	¼ in		IRWIN	**55KH92**
7	¼ in	⅛ in Bit, 3/16 in Bit, 3/32 in Bit, 5/32 in Bit, 7/32 in Bit, 7/64 in Bit, 9/64 in Bit	IRWIN	**787P71**
19	¼ in		IRWIN	**55KJ13**
32	¼ in	Tool Case	IRWIN	**55KJ08**
Power Bit Set				
5	¼ in	T15/T20, T20/T25, T25/T30, T25/T25 2⅜ in Bits Plus Magnetic Screw-Hold Attachment	IRWIN	**30TH75**
7	¼ in	(3) #2PH/#2PH, #2SQ/#2SQ 2⅜ in Bits Plus Magnetic Screw-Hold Attachment	IRWIN	**30TH76**
Screwdriver Bit Set				
19	¼ in	Phillips #2 x 1 in (8), Square #1 x 1 in, Square #2 x 1 in (2), Square #3 x 1 in, Phillips #2 x 2 in (2), Phillips #3 x 2 in, Square #2 x 2 in, Mag Bit Holder, ¼ in Mag Nutsetter, 5/16 in Mag Nutsetter	Vega Ind., Inc.	**45AW50**
Torx Bit Set				
3	¼ in	T15, T20, T25	DeWalt	**787P70**
Power Screwdriver Bit Sets				
Ball End Hex Bit Set				
9	¼ in	3/32, 764, ⅛, 9/64, 5/32, 3/16, 7/32, ¼ in Bits, Storage Rail Holder	Wiha Tools	**5HYL2**
10	¼ in	3/32, 7/64, ⅛, 9/64, 5/32, 3/16, 7/32, ¼ in, ¼ in Bits, Magnetic Bit Holder, Molded Storage Box	Wiha Tools	**5HYL3**
Bit Set				
4	—	Socket Adaptor, Bit Holder, Bit Ratchet, Rapid Adaptor Bit Holder, Phillips (2) #1, (3) #2, #3, Square #1, (3) #2, #3, Torx T10, T15, T20, T25, T30, T40, Security Torx T10s, T15s, T20s, T25s, T30s, Slotted 5.5mm, Hex Plus 3/32, ⅛, 5/32, 3/16, 5/16", HMA 3/16, ¼, 5/16, 11/32, ⅜, 7/16, ½"	Milwaukee	**13G265**
Drill and Driver Bit Set				
12	¼ in	Drill Drive Holder; Drill Drive Connector; #6, #8, and #10 Drill Bits with Countersinks; (2) #6, #8, and #10 Replacement Bits; (3) Screwdriver Bit Tips, Heavy-Duty Container	DeWalt	**6XG79**
95	¼ in	(1) 5/64 in Black Oxide Drill Bit, (1) 5/32 in Black Oxide Drill Bit, (1) 7/64 in Black Oxide Drill Bit, (1) 1/16 in Thunderbolt Black Oxide Drill Bit, (1) ⅛ in Thunderbolt Black Oxide Drill Bit, (1) 3/16 in Thunderbolt Black Oxide Drill Bit, (1) ¼ in Thunderbolt Black Oxide Drill Bit, (1) 3/32 in Thunderbolt Black Oxide Drill Bit, (2) Hex Bit 1 in 1/16 in, (2) Hex Bit 1 in ¼ in, (2) Hex Bit 1 in 3/16 in, (1) Hex Bit 1 in 5/32 in, (1) Hex Bit 1 in 9/64 in, (2) Hex Bit 1 in ⅛ in, (2) Hex Bit 1 in 3/32 in, (2) Hex Bit 1 in 5/64 in, (2) Hex Bit 1 in 7/64 in, (3) Phillips Bit 1 in P1, (10) Phillips Bit 1 in P2, (4) Phillips Bit 1 in P3, (3) Phillips Bit 1 in PR2 , (1) Phillips Bit 2 in P2, (1) Pozidrive Bit 1 in PZ2, (1) Pozidrive Bit 1 in PZ3, (2) Slotted Bit #4, (2) Slotted Bit #6, (2) Slotted Bit #8, (2) Slotted Bit #10, (1) Slotted Bit #12, (1) Slotted 2 in Bit #8, (3) Square Bit 1 in SQ1, (8) Square Bit 1 in SQ2, (3) Square Bit 1 in SQ3, (1) Square Bit 2 in SQ2, (2) Torx Bit 1 in T10, (2) Torx Bit 1 in T15, (3) Torx Bit 1 in T20, (3) Torx Bit 1 in T25, (2) Torx Bit 1 in T27, (2) Torx Bit 1 in T30, (2) Torx Bit 1 in T40, (2) Torx Bit 1 in T9, (1) Torx Bit 2 in T20, (1) Torx Bit 2 in T25, (1) ¼ in Magnetic Nut Driver, (1) 5/16 in Magnetic Nut Driver, (1) Magnetic Drive Guide	Milwaukee	**36FX64**
Drive Guide Set				
14	¼ in	(2) Magnetic Drive Guides, (6) #2 Phillips, (2) #8 and #10 Slotted, (3) #2 Square Recess Bits, Case	DeWalt	**2KLK3**
Flex Bit Screwdriver Set				
26	¼ in	¼ in Magnetic Quick Disconnect for Impact/Power Bits, Phillips #0, #1, #2, #4-5, Slotted #8-10, Star T15, Square Recess R1, R2 , Sockets 3/16, ¼, 9/32, 5/16,11/32, ⅜, 7/16, 15/32 and ½ in, Flexible Extension 10½ in	Eazypower	**5UXU7**
Flex Wrench Socket Set				
19	⅜ in	11 in Length ⅜ in Hex Flex A Bit Plus Extension, Phillips #1, #2, Slotted #6-8, #8-10, Tee Star T15, T20, Square Recess R1, R2, Sockets 3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝ in, ¼ in Hex Female Socket Adapter, Socket Adapter	Eazypower	**5UFZ4**
Hex/Torx Bit Set				
32	¼ in	Tamper Resistant Torx TR7, TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40, SAE Tamper Resistant Hex 3/32, 7/64, ⅛, 9/64, 5/32, 3/16, Metric Tamper Resistant Hex 2, 2.5, 3, 4, 5, Spanner #4, #6, #8, #10, Tri-Wing(R) #1, #2, #3 #4, TORQ-SET(R) #6, #8, #10, ¼ in Square to ¼ in Hex Adaptor, ¼ in Drive Sockets	Klein Tools	**3MJA9**
Insert Bit Set				
30	¼ in	Phillips #1, (3) #2, #3, Hex 2½, 3, 4, 5, 5½ in, Pozi Drive (2) PZ1, (3) PZ2, PZ3, Torx (2) T10, (2) T15, (3) T20, (3) T25, (2) T30, T40, ¼ in Hex Quick Release Rapidaptor Bit Holder	Wera	**3EJY5**
Magnetic Drive Guide Set				
7	¼ in	#1, (6) #2, and #3 Square Recess, #6, (2) #8, and #10 Slotted, Bit Tips: #1, (10) #2, and #3 Phillips, Compact Magnetic Drive Guide, Double-End Power Bits: P#1/S#6, (3) P#2/S#8, (3) P#2/P#2, and P#3/S#10, Magnetic Nut Setters: ¼ in and 5/16 in, Power Bits:	DeWalt	**4WM41**
Rapid Load Holder and Bit Set				
20	¼ in	(2) 1 in Philips Bits: (2) PH2, 1 in Square Bits: SQ2, (3) 2 in Phillips Bits: PH1. (2) PH2, 1 in Torx Bits: T25, 2 in Torx Bit: T25, 2 in Slotted Bits: SL8, 3½ in Slotted Bit: SL8, 2-2 in Square Bits: SQ1, SQ2, (3) Titanium Hex Shank Drill Bits: ⅛ in, 5/32 in, ¼ in, (3	DeWalt	**25CC51**
Screwdriver Bit Set				
7	¼ in	7 Piece - 6-in-1 Flip and Switch Driver System	DeWalt	**5TE33**
15	—	2 in PH#2, 2 in SQ#2, (2) 1 in SL#8, (3) 1 in PH#2, 1 in PH#3, SQ#1, SQ#2, T25, ¼, 5/16, ⅜ Nutsetter, 3 in Magnetic Holder	DeWalt	**5XFA5**
20	¼ in	Compact Screw Guide, (19) 1 in Insert Bits: P1, (7) P2, P3, SQ1, (3) SQ2, SQ3, T15, T20, T25,SL6-8, SL8-10	Milwaukee	**45L154**
21	¼ in	2 in Magnetic Bit Tip Holder; Bit Tips: #1, (6)#2, and #3 Phillips; #6, #8, and #10 Slotted; #1 and (3)#2 Square Recess; Magnetic Nut Setters: ¼ in and 5/16 in ; Power Bits: 2 in #2; 2 in #2 Square Recess	DeWalt	**4WM44**
29	¼ in	Magnetic Drive Guide; Bit Tips: #1, (10)#2, and #3 Phillips; #6, (2)#8, and #10 Slotted; #1, (6)#2, and #3 Square Recess; Magnetic Nut Setters: ¼ in and 5/16 in ; Power Bits: 2 in #2 Phillips; 2 in #2 Square Recess	DeWalt	**4WM45**
31	¼ in	(4) Security Hex - Metric 2mm, 2.5mm, 3mm, 4mm, (4) Spanner Bits 4, 6, 8, 10, (4) Tri-W in g 1, 2, 3, 4, (6) Security Hex Bits 5/16 in, 3/32 in, 7/64 in, ⅛ in, 9/64 in, 5/32 in, (9) Security Star Bits T8, T10, T15, T20, T25, T27, T30, T35, T40	DeWalt	**34D642**
37	¼ in	(20) 1 in Phillips Bits: PH1, (18) PH2, PH3, (8) 1 in Square Bits: PH1, (6) PH2, PH3, (4) 1 in Slotted Bits: SL6, (2) SL8, SL10, (2) Nut Drivers: ¼ in, 5/16 in, Magnetic Drive Guide, Compact Magnetic Drive Guide, 2 in Power Bits: PH2	DeWalt	**25CC48**
42	¼ in	(1) Hex Bit 1 in ¼ in, (1) Hex Bit 1 in 3/16 in, (1) Phillips Bit 1 in P1, (6) Phillips Bit 1 in P2, (2) Phillips Bit 1 in P3, (2) Phillips Bit 1 in PR2 , (1) Phillips Bit 2 in P2, (1) Phillips Bit 2 in P3, (1) Phillips Bit 3.5 in P2, (1) Slotted Bit #6, (1) Slotted Bit #8, (1) Slotted Bit #10, (1) Slotted 2 in Bit #8, (1) Slotted 2 in Bit #10, (2) Square Bit 1 in SQ1, (6) Square Bit 1 in SQ2, (1) Square Bit 1 in SQ3, (1) Square Bit 2 in SQ2, (1) Square Bit 2 in SQ3, (1) Square Bit 3.5 in SQ2, (1) Torx Bit 1 in T10, (1) Torx Bit 1 in T15, (1) Torx Bit 1 in T20, (1) Torx Bit 1 in T25, (1) Torx Bit 1 in T30, (1) Torx Bit 2 in T15, (1) Torx Bit 2 in T20, (1) Torx Bit 2 in T25, (1) Magnetic Drive Guide	Milwaukee	**36FX65**
45	¼ in	(16) 1 in PH Bits: PH1, (14) PH2, PH3, (4) 1 in SL Bits: SL6, (2) SL8, SL10, 98) 1 in SQ Bits: SQ1, (6)SQ2, SQ3, Magnetic Drive Guide, 3½ in Phillips Bits: PH2, 3½ in Slotted Bits: SL2, (8) 2 in Double Ended Bits: (3) PH2/PH2, PH1/SL6, (3) PH2/SL8, PH3/SL10, (2	DeWalt	**25CC45**
Slotted Power Bit Set				
2	¼ in	Slotted #5-6	Eazypower	**5UXW3**
Spanner Power Bit Set				
4	¼ in	Case, Spanner #4, #6,#8, #10	Eazypower	**5UXU8**
Stubby Ball Hex Bit Set				
6	¼ in	Stubby Cushion Grip Driver, Hex ⅛, 9/64, 5/32, 3/16, 7/32, ¼ in	Wiha Tools	**5HYL4**
Stubby Combination Bit Set				
6	¼ in	Stubby Cushion Grip Driver, Slotted 4.5, 6.5mm, Phillips #1, #2, #1, Pozi #2	Wiha Tools	**5HYL5**
6	¼ in	Stubby Cushion Grip Driver, Slotted 4.5, 6.0mm, Phillips #1, #2, Square #1, #2	Wiha Tools	**5HYL8**
Stubby Torx Bit Set				
6	¼ in	Stubby Cushion Grip Driver, Security Torx T8S, T10S, T15S, T20S, T25S, T30S	Wiha Tools	**5HYL7**
6	¼ in	Stubby Cushion Grip Driver, Torx T8, T10, T15, T20, T25, T30	Wiha Tools	**5HYL6**
Torx Bit Set				
7	⅜ in	⅜ in Drive Bit Holder, Torx T10, T15, T20, T25, T27, T30	Proto	**3R754**
Triple-Y Insert Bit Set				
2	¼ in	Triple-Y #6	Eazypower	**5UXZ2**
2	¼ in	Triple-Y #5	Eazypower	**5UXZ1**
2	¼ in	Triple-Y #2	Eazypower	**5UXY8**
2	¼ in	Triple-Y #3	Eazypower	**5UXY9**
2	¼ in	Triple-Y #1	Eazypower	**5UXY7**
2	¼ in	Triple-Y #4	Eazypower	**5UXZ0**
2	¼ in	Triple-Y #7	Eazypower	**5UXZ3**

Torx TR/Security
22PG53

Hex
22PJ38

Phillips
30GE12

Torq-Set
5RDW0

Screwdriver Bits

Fastening Tool Tip Size	Overall Bit Length	Shank Style	Fastening Tool Material	Brand	Item No.	Pkg. Qty.
Hex						
2 mm	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**22PH02**	5
2.5 mm	1 in	Hex	Stainless Steel	Wera	**5EPW3**	1
	1 in	Hex	S2 Steel	Apex	**22PG14**	5
3 mm	3 in	Hex Power Drive	S2 Steel	Apex	**22PJ31**	5
6 mm	4 in	Hex Power Drive	Stainless Steel	Apex	**22PJ38**	5
1/8 in	1 in	Hex	S2 Steel	Apex	**22PF50**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDU4**	5
	3 1/2 in	Hex	Stainless Steel	Wera	**5EPY7**	1
1/16 in	1 in	Hex	S2 Steel	Apex	**22PF93**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**22PG68**	5
3/16 in	1 5/16 in	Hex	S2 Steel	Apex	**5RDT9**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDU6**	5
	3 1/2 in	Hex	Stainless Steel	Wera	**5EPY9**	1
	4 in	Hex Power Drive	Stainless Steel	Apex	**6JJK1**	1
	6 in	Hex Power Drive	S2 Steel	Apex	**22PJ43**	5
3/32 in	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDU3**	5
	3 1/2 in	Hex	Stainless Steel	Wera	**5EPY6**	1
	6 in	Hex Power Drive	S2 Steel	Apex	**22PJ45**	5
5/16 in	1 7/8 in	Hex	Steel	IRWIN	**55KH20**	5
5/32 in	1 5/16 in	Hex	S2 Steel	Apex	**5RDT8**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDU5**	5
	3 1/2 in	Hex	Stainless Steel	Wera	**5EPY8**	1
	5 in	Hex Power Drive	S2 Steel	Apex	**22DG48**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**22DG49**	5
5/64 in	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**22PG69**	5
7/32 in	7/8 in	Hex	S2 Steel	Apex	**6YNV1**	1
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**22PG74**	5
7/64 in	1 in	Hex	S2 Steel	Apex	**5RDU2**	5
9/64 in	1 in	Hex	S2 Steel	Apex	**5RDT5**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**22PG62**	5
PH2	6 in	Round	Steel	Apex	**33N629**	1
Hi-Torque						
#1	1 1/4 in	Hex	S2 Steel	Apex	**22PG44**	1
#2	1 1/4 in	Hex	S2 Steel	Apex	**22PG45**	1
#3	1 1/4 in	Hex	S2 Steel	Apex	**22PG46**	1
	1 in	Square	S2 Steel	Apex	**22PG27**	1
#10	1 in	Square	S2 Steel	Zephyr	**411A79**	1
MorTorq						
#1	1 5/16 in	Hex Power Drive	S2 Steel	Apex	**22PJ18**	5
#2	1 5/16 in	Hex Power Drive	S2 Steel	Apex	**22PH99**	5
Phillips						
#0	1 9/16 in	Hios	S2 Steel	Wera	**30GE12**	10
#1	1 in	Hex	S2 Steel	Apex	**5RDG9**	5
	1 1/2 in	Screw	S2 Steel	Apex	**22PG52**	5
	2 in	Hex Power Drive	S2 Steel	Westward	**40L622**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDJ4**	5
	6 in	Hex	S2 Steel	Zephyr	**410Z23**	5
#2	1 in	Hex	S2 Steel	Apex	**5RDH6**	5
	1 in	Hex	S2 Steel	Apex	**5RDH1**	250
	1 in	Hex	S2 Steel	Apex	**5RDH7**	250
	1 in	Hex	S2 Steel	Zephyr	**410Y99**	500
	1 in	Hex	S2 Steel	Apex	**5RDH8**	500
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDJ5**	5
	2 in	Hex	S2 Steel	Apex	**6JJK0**	1
	2 3/8 in	Hex	S2 Steel	Zephyr	**410Z30**	5
	2 in	Hex	S2 Steel	Apex	**6JJJ9**	1
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5RDJ7**	5
	3 1/2 in	Hex	S2 Steel	Zephyr	**410Z33**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDJ9**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDK0**	250
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PF35**	5
	6 3/4 in	Hex	S2 Steel	Senco	**22A517**	2
	6 in	Hex	S2 Steel	Zephyr	**410Z37**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**5RDK1**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**22PG38**	5
	7 1/2 in	Hex	S2 Steel	Senco	**22A520**	2
#3	1 15/16 in	Hex	S2 Steel	Zephyr	**410Z41**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**22PF85**	5
	2 in	Hex Power Drive	S2 Steel	Westward	**40L624**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDK6**	5
	3 in	Hex Power Drive	S2 Steel	Westward	**40L628**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**22PG42**	5
#4	1 5/16 in	Hex	S2 Steel	Apex	**22PF79**	5
PH2	1 in	Hex	Carbon Steel	IRWIN	**55EW67**	25
	2 in	Hex	Steel	IRWIN	**55KH08**	2
	6 in	Hex	Carbon Steel	IRWIN	**55EU07**	1
Phillips/Slotted Double-Ended Hand						
#1, 1/4 in	5 5/16 in	Hex	Steel	Klein Tools	**40Y154**	2
#2/1/4 in	1 1/4 in	Hex	S2 Steel	Klein Tools	**1YBT2**	2
#2/9/32 in	2 1/2 in	Hex	S2 Steel	Klein Tools	**1YBT4**	1
	3 in	Hex	S2 Steel	Jonard Tools	**22KY24**	1
Phillips ACR						
#1	1 in	Hex	S2 Steel	Apex	**5RDH9**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDK7**	5
#2	1 in	Hex	S2 Steel	Apex	**5RDJ1**	5
	1 in	Hex	S2 Steel	Apex	**5RDJ0**	250
	1 in	Hex	S2 Steel	Zephyr	**410Z04**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDK8**	5
#3	1 in	Hex	S2 Steel	Apex	**5RDJ2**	5

Fastening Tool Tip Size	Overall Bit Length	Shank Style	Fastening Tool Material	Brand	Item No.	Pkg. Qty.
Phillips Double-Ended Hand						
#1, #2		Hex	Steel	Klein Tools	**40Y156**	2
Phillips Impact						
PH2	1 in	Hex	S2 Steel	IRWIN	**787P72**	5
Phillips Magnetic						
#2	2 in	Hex Power Drive	S2 Steel	Westward	**40L614**	2
#3	2 in	Hex Power Drive	S2 Steel	Westward	**40L615**	2
Slotted						
1F-2R	4 in	Hex Power Drive	Stainless Steel	Apex	**22PH12**	5
2F-3R	1 1/2 in	Hex	S2 Steel	Apex	**22PG17**	5
4F-5R	1 in	Hex	S2 Steel	Apex	**22PF23**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**22PH30**	5
5F-6R	3 3/4 in	Hex Power Drive	Stainless Steel	Apex	**6JJK2**	1
6F-8R	6 in	Hex Power Drive	S2 Steel	Apex	**22PG97**	5
6F-7R	1 in	Hex	S2 Steel	Apex	**22PF72**	5
10F-12R	1 in	Hex	S2 Steel	Apex	**22PF46**	5
12F-14R	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PG93**	5
14F-16R	1 1/2 in	Hex	S2 Steel	Zephyr	**410Z73**	5
Square Recess						
#1	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**22PF70**	5
	2 in	Hex Power Drive	S2 Steel	Westward	**38RW01**	1
#2	1 in	Hex	S2 Steel	Apex	**5RDU8**	5
	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDV1**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5RDV3**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PF59**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDV5**	5
	6 3/4 in	Hex	S2 Steel	Senco	**22A518**	2
	6 in	Hex Power Drive	S2 Steel	Westward	**40L666**	5
	7 1/2 in	Hex	S2 Steel	Senco	**22A521**	2
#3	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDV7**	5
SQ1	2 in	Hex	Steel	IRWIN	**55KH10**	2
Square Recess Double-Ended Hand						
#0/#3	2 1/4 in	Square	S2 Steel	Megapro	**22XT35**	1
#1/#2	1 1/4 in	Hex	S2 Steel	Klein Tools	**1YBR9**	2
	2 1/4 in	Square	S2 Steel	Megapro	**22XT36**	1
Square Recess Impact						
#2	6 in	Hex	S2 Steel	Milwaukee	**10Z782**	1
#3	1 in	Hex	S2 Steel	Milwaukee	**5EAY4**	2
SQ3	6 in	Hex	Steel	IRWIN	**55KH33**	1
Torq-Set						
#2	1 in	Hex	S2 Steel	Apex	**5RDW0**	5
	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFC9**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD0**	5
#3	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD1**	5
#4	1 in	Hex	S2 Steel	Apex	**5RDW2**	5
	1 1/4 in	Hex	S2 Steel	Zephyr	**411A15**	5
	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD3**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD4**	5
#6	1 in	Hex	S2 Steel	Apex	**5RDW4**	5
	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD6**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5UFD7**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5UFD8**	5
#8	1 in	Hex	S2 Steel	Apex	**5RDW5**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5UFE2**	5
#10	1 in	Hex	S2 Steel	Apex	**5RDW7**	5
	1 in	Hex	S2 Steel	Zephyr	**411A27**	5
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5UFE7**	5
1/4 in	1 in	Hex	S2 Steel	Apex	**5RDW8**	5
5/16 in	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFE9**	5
Torq-Set ACR						
#8	1 in	Hex	S2 Steel	Apex	**5UFA7**	5
#10	1 in	Hex	S2 Steel	Apex	**5UFA8**	5
	1 in	Hex	S2 Steel	Zephyr	**411A29**	5
	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFE5**	5
1/4 in	1 in	Hex	S2 Steel	Zephyr	**411A26**	5
	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFF4**	5
5/16 in	1 1/4 in	Hex Power Drive	S2 Steel	Apex	**5UFF5**	5
Torx(R)						
T10	1 in	Hex	S2 Steel	Apex	**5RDL3**	5
	3 1/2 in	Hex	Stainless Steel	Wera	**5EPX7**	1
T15	1 in	Hex	S2 Steel	Apex	**5RDL4**	5
	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**5RDR1**	5
T20	1 in	Hex	S2 Steel	Westward	**40L595**	5
	2 in	—	S2 Steel	Milwaukee	**52WT02**	15
	2 3/4 in	Hex Power Drive	S2 Steel	Apex	**5RDR4**	5
	6 in	Hex Power Drive	S2 Steel	Apex	**5RDR6**	5
T25	1 15/16 in	Hex Power Drive	S2 Steel	Apex	**5RDR7**	5
	6 in	Hex	S2 Steel	Zephyr	**411C14**	5
T30	1 in	Hex	S2 Steel	Apex	**5RDL9**	5
T40	1 1/4 in	Hex	S2 Steel	Apex	**5RDP2**	5
T50	1 1/4 in	Hex	S2 Steel	Apex	**5RDP3**	5
Torx(R) Hand						
T6	1 in	Hex	S2 Steel	Proto	**19ZA94**	1
T10	1 in	Hex	S2 Steel	Proto	**1Q723**	1
T20	1 in	Hex	S2 Steel	Proto	**1Q725**	1
Torx(R) Plus						
T45	1 1/4 in	Hex	S2 Steel	Apex	**22PG50**	5
T50	1 1/4 in	Hex	S2 Steel	Apex	**22PG51**	5
Torx(R) TR/Security						
TR10	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PG53**	5
TR15	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PG05**	5
TR20	3 1/2 in	Hex Power Drive	S2 Steel	Apex	**22PG34**	5
TR25	1 in	Hex	S2 Steel	Zephyr	**411A58**	5

Nutsetters and Sets

- Tool insertion size: ¼" Hex

These nonimpact-rated tools are used with power drills and power screwdrivers to generate more force (torque) in rotating hex head fasteners than a hand-operated tool.

Nutsetter 36C173

Set 55KG63

Fastening Size	Overall Length	Tool Insertion Size	Finish	Nutsetter Hex Size	Brand	Item No.	Pkg. Qty.
Nutsetters							
Magnetized Tip Yes							
¼ in	1 ⅞ in	¼ in Hex	—	—	IRWIN	**55KH69**	10
	1 ⅞ in	¼ in Hex	—	—	IRWIN	**787P78**	3
	1 ⅞ in	¼ in Hex	Satin	8 mm	Proto	**1FR32**	1
	1 ⅞ in	¼ in Hex	Tool Steel	—	IRWIN	**55EV91**	1
	1 ¾ in	¼ in Hex	Unfinished	5/16 in	Zephyr	**411A72**	1
	2 9/16 in	¼ in Hex	—	—	IRWIN	**787P80**	3
	2 9/16 in	¼ in Hex	Satin	5/16 in	Proto	**1FR61**	1
	2 9/16 in	¼ in Hex	Tool Steel	—	IRWIN	**55EV93**	1
	2 9/16 in	¼ in Hex	Unfinished	5/16 in	Zephyr	**411A74**	1
	4 in	¼ in Hex	—	—	IRWIN	**787P82**	1
	6 in	¼ in Hex	—	—	IRWIN	**787P83**	1
5/16 in	1 ⅞ in	¼ in Hex	Tool Steel	—	IRWIN	**55EV92**	1
	2 9/16 in	¼ in Hex	Tool Steel	—	IRWIN	**55EV94**	1
	6 in	¼ in Hex	—	—	IRWIN	**787P84**	1
⅜ in	1 ⅞ in	¼ in Hex	—	—	IRWIN	**787P79**	3
	1 ⅞ in	¼ in Hex	Tool Steel	—	IRWIN	**55EW16**	1
	1 ¾ in	¼ in Hex	Unfinished	⅜ in	Zephyr	**411A71**	1
	2 9/16 in	¼ in Hex	Tool Steel	—	IRWIN	**55EW17**	1
	6 in	¼ in Hex	Tool Steel	—	IRWIN	**55EW18**	1
7/16 in	1 ⅞ in	¼ in Hex	Satin	7/16 in	Proto	**1FR47**	1
	2 9/16 in	¼ in Hex	—	—	IRWIN	**787P81**	10
	2 9/16 in	¼ in Hex	Tool Steel	—	IRWIN	**55KG64**	1
½ in	2 9/16 in	¼ in Hex	Tool Steel	½ in	IRWIN	**55KG62**	5
⅞ in	1 ⅞ in	¼ in Hex	Sand Blasted	7/16 in	DeWalt	**5TE25**	1
10 mm	1 ⅞ in	¼ in Hex	Satin	10 mm	Proto	**1FR31**	1
Magnetized Tip No							
⅝ in	2 ⅜ in	¼ in Hex	Black Oxide	⅝ in	Sammys	**36C173**	1
	2 ½ in	¼ in Hex	Nickel	⅝ in	Sammys	**36C174**	1

Number of Nutsetters Included	Fastening Size	Overall Length	Finish	Brand	Item No.
Nutsetter Sets					
Magnetized Tip Yes					
3	¼ in, 5/16 in, ⅜ in	1 ⅞ in	Gold	Proto	**4LV28**
	¼ in, 5/16 in, ⅜ in	1 ⅞ in	Tool Steel	IRWIN	**55KG60**
4	¼ in, 5/16 in, ⅜ in, 7/16 in	1 ⅞ in	Tool Steel	IRWIN	**55KG61**
	¼ in, 5/16 in, ⅜ in	2 9/16 in	Tool Steel	IRWIN	**55KG63**

Impact Wrench 4JB72

Impact Wrench 6KX41

Impact Wrench 1GUB3

Corded Impact Wrenches

- 120V AC

These wrenches combine a hammer-like impact with high rotational torque to drive and remove fasteners. The impact force is initiated when resistance with the fastener is detected, and the impact is delivered in bursts to reduce stress on the user. Wrenches use interchangeable impact-rated sockets and are for use in general maintenance, construction, and automotive applications. Tools allow long run times for repetitive tasks, maintain full power during operation, and have no batteries to recharge.

Fastening Torque	Breakaway Torque	Free Speed	Impacts per Minute	Current	Includes	Brand	Item No.
½ in Square Drive, Friction Ring							
300 ft-lb	300 ft-lb	1,800 RPM	2,600	7.0 A	—	Milwaukee	**6KX38**
345 ft-lb	345 ft-lb	2,100 RPM	2,700	7.5 A	—	DeWalt	**4JB74**
½ in Square Drive, Pin Detent							
258 ft-lb	258 ft-lb	2,000 RPM	2,000	3.5 A	Belt Clip, Tool Case	Makita	**14F191**
300 ft-lb	300 ft-lb	1,800 RPM	2,600	7.0 A	—	Milwaukee	**6KX37**
345 ft-lb	345 ft-lb	2,100 RPM	2,700	7.5 A	—	DeWalt	**4JB72**
345 ft-lb	345 ft-lb	2,100 RPM	2,700	7.5 A	Kit Bag	DeWalt	**4JB73**
¾ in Square Drive, Friction Ring							
380 ft-lb	380 ft-lb	1,800 RPM	2,600	7.0 A	—	Milwaukee	**6KX41**
433 ft-lb	433 ft-lb	1,700 RPM	1,600	9.0 A	Side Handle, Steel Tool Case	Makita	**14G997**
¾ in Square Drive, Pin Detent							
345 ft-lb	345 ft-lb	2,100 RPM	2,700	7.5 A	—	DeWalt	**4JB75**
1 in Square Drive, Friction Ring							
738 ft-lb	738 ft-lb	1,400 RPM	1,500	12.0 A	Side Handle, Tool Case	Makita	**1GUB3**

Corded Shear Wrench

- 120V AC
- 12 A

This tool is used with tension control bolts to ensure the correct tension is achieved. Wrench is nonimpact so it operates more quietly than impact tools and transfers less vibration to reduce the risk of hand injuries and fatigue. Requires no calibration and does not require adjustment prior to use. Tool allows long run times for repetitive tasks, maintains full power during operation, and has no batteries to recharge.

For A325 Bolt Size Capacity	For A490 Bolt Size Capacity	Drive Size	Fastening Torque	Item No.
⅝ in, ¾ in, ⅞ in	⅝ in, ¾ in	¾ in Square, ⅝ in Square, ⅞ Square	593 ft-lb	**4DZJ2**

ROUND SHANK

Corded Hammer Drills

- ½" chuck
- 120V AC
- Reversible

Hammer drills spin their bits and vibrate them at high speed and low impact for drilling small-diameter holes in asphalt, brick, cinder block, tile, and light concrete more cleanly and easily than drilling alone. Tools have a rotate-only mode to drill wood, metal, plastic, and other non-concrete materials. For use in applications that require more power than a standard drill but don't require the large-diameter bits and heavy impact of rotary or demolition hammers. Tools allow long run times for repetitive tasks, maintain full power during operation, and have no batteries to recharge.

5VC48

60NK83

39RY34

Drilling Capacity in Concrete	Drilling Capacity in Wood	Maximum Tool Speed	Maximum Blows per Minute	Tool Length	Includes	Brand	Mfr. Model	Item No.
1 Speed								
⅜ in	1 ¼ in	2,800 RPM	47,600 bpm	10 5/16 in	360 Degree Side Handle, Chuck Key with Holder, Depth Rod	DeWalt	DWE5010	**21RY66**
⅝ in	1 ¼ in	3,000 RPM	48,000 bpm	11 in	360° Auxiliary Handle, Carrying Case, Chuck Key, Depth Gauge	Bosch	1191VSRK	**2LDB1**
⅜ in	1 ¼ in	1,150 RPM	46,000 bpm	11 ½ in	360 Degree Side Handle, Chuck Key with Holder, Depth Rod	DeWalt	DW511	**5VC48**
2 Speed								
¾ in	1 ½ in	1,200 RPM, 3,200 RPM	19,550 bpm, 51,000 bpm	13 ⅜ in	360° Auxiliary Handle, Chuck Key, Depth Gauge	Bosch	HD18-2	**39RY34**
⅞ in	1 ⅝ in	900 RPM, 3,000 RPM	15,300 bpm, 51,000 bpm	13 ½ in	360° Auxiliary Handle, Carrying Case, Chuck Key, Depth Gauge	Bosch	HD21-2	**5EEW4**
7/16 in	1 ½ in	1,200 RPM, 3,500 RPM	56,000 bpm	13 in	360° Locking Side Handle, Chuck Key with Holder, Kit Box, Steel Depth Rod	DeWalt	DWD525K	**3GRF6**
7/16 in	1 ½ in	1,200 RPM, 3,500 RPM	56,000 bpm	14 in		DeWalt	DWD520K	**3GRF5**
Continuous Speed								
23/32 in	1 9/16 in	3,100 RPM	58,900 bpm	—	Chuck Keys, Drilling Depth Guide, Geared Chucks, Metabox 145 L, Rubber-Coated Side Handle	Metabo	SBE 850-2	**60NK83**
⅜ in	1 ½ in	2,700 RPM	19,000 bpm, 46,000 bpm	13 in	360 Degree Side Handle, Chuck Key with Holder, Depth Rod, Kit Box	DeWalt	DW505K	**6HC39**
⅜ in	1 ½ in	2,700 RPM	19,000 bpm, 46,000 bpm	13 in	360 Degree Side Handle, Chuck Key, Depth Rod	DeWalt	DW505	**4KZ90**

Details on page A1.

Impact Screwdriver Bit Sets

Provide a range of drilling and driving capabilities, and are precision machined for an exact fit allowing quick changeouts.

Impact Driver Bit Set 60HU17

Pivot Holder Bit Set 10Z808

Power Bit Set 30TH76

No. of Pieces	Hex Shank Size	Fastening Tool Material	Includes	Brand	Item No.
Impact Driver Bit Set					
34	¼ in	Chrome Vanadium Steel	Handle, Bit Holder, Metal Storage Box, Bits, PoziDriv (1) #1, (1) #2, (1) #3, Square (1) #1, (2) #2, (1) #3, Phillips (2) #1, (2) #2, (2) #3, Hex Metrix (1) 3.0mm, (1) 4.0mm, (1) 5.0mm, (1) 6.0mm, Hex Inch (1) ⅛ in, (1) 9/64 in, (1) 5/32 in, (1) 3/16 in, (1) 7/32 in, (1) ¼ in, Torx(R) (1) T10, (1) T15, (2) T20, (2) T25, (2) T30, (1) T40	Wiha Tools	**440A44**
100	¼ in	Alloy Steel	¼" Nut Driver, 5/16" Nut Driver, Hex ¼", Hex ⅛", Hex 3/16", Hex 3/32", Hex 5/32", Hex 7/64", Hex 9/64", PH1, PH2, PH3, PR2, SL #12, SL #4, SL #6, SL#10, SL#8, SQ1, SQ2, SQ3, T10, T15, T20, T25, T27, T30	Milwaukee	**60HU17**
Magnetic Drive Guide Set					
7	¼ in	Steel	3 in Magnetic Drive Guide, (2) PH2 Insert Bits, SQ2 Insert Bit, T20 Insert Bit, (2) T25 Insert Bits	Milwaukee	**419J71**
Pivot Holder and Bit Set					
11	¼ in	Steel	(1) Phillips Bit 1 in P1, (1) Phillips Bit 1 in P2, (1) Phillips Bit 1 in P3, (1) Slotted Bit 1 in SL ¼ in, (1) Slotted Bit 1 in SL ⅛ in, (1) Slotted Bit 1 in SL 3/16 in, (1) Slotted Bit 1 in SL 9/32 in, (1) Square Bit 1 in SQ, (1) Square Bit 1 in SQ2, (1) Bit 1 in T25, (1) Shockwave 30 Degree Knuckle Pivoting Bit Holder	Milwaukee	**10Z808**
Power Bit Set					
7	¼ in	Steel	(3) #2PH/#2PH, #2SQ/#2SQ 2⅜ in Bits Plus Magnetic Screw-Hold Attachment	IRWIN	**30TH76**
Screwdriver Bit Set					
22	1 in	High Speed Steel	(5) TORX(R) Bit 1 in T25, (3) Phillips Bit 1 in P2, (3) TORX(R) Bit 1 in T20, (3) Square Bit 1 in SQ2, (2) Phillips Bit 1 in P3, (1) SHOCKWAVE(R) Compact Magnetic Bit Holder, (1) Phillips Bit 1 in P1, (1) Square Bit 1 in SQ1, (1) Square Bit 1 in SQ3, (1) TORX(R) Bit 1 in T10, (1) TORX(R) Bit 1 in T15, (1) TORX(R) Bit 1 in T27, (1) TORX(R) Bit 1 in T30, (1) Slotted Bit 1 in SL ⅛ in, (1) Slotted Bit 1 in SL 3/16 in, (1) Slotted Bit 1 in SL 9/32 in, (1) Slotted Bit 1 in SL ¼ in	Milwaukee	**423P08**
26	¼ in	Steel	(1) Phillips Bit 1 in P1, (1) Phillips Bit 1 in P2, (3) Phillips Bit 1 in P3, (1) Square Bit 1 in SQ1, (2) Square Bit 1 in SQ2, (1) Square Bit 1 in SQ3, (2) TORX(R) Bit 1 in T20, (2) TORX(R) Bit 1 in T25, (1) TORX(R) Bit 1 in T30, (1) ¼ in Hex to ⅜ in Square Adapter, (1) ¼ in Magnetic Nut Driver, (1) Phillips Bit 2 in P2, (1) Square Bit 2 in SQ2, (1) TORX(R) Bit 2 in T20, (1) TORX(R) Bit 2 in T25, (1) Slotted Bit 1 in SL 3/16 in, (1) ⅜ in Drive: ½ in Socket, (1) ⅜ in Drive 9/16 in Socket, (1) ⅜ in Magnetic Nut Driver, (1) 5/16 in Magnetic Nut Driver, (1) SHOCKWAVE(TM) Compact Magnetic Bit Holder	Milwaukee	**19RK07**
35	¼ in	Steel	Impact Ready Socket Adapters ⅜ in, 7/16 in, ½ in, 9/16 in, Impact Ready ¼ in Hex Shank Adapter, Impact Ready Nutsetters 5/16 in, ⅜ in, ¼ in, 3 in Impact Ready Screw Lock Holder, 2 in PH2 Impact Ready Bits, 1 in Square Impact Ready Bits: SQ1, (4) SQ2, SQ3, 1 in Philips	DeWalt	**20UH15**
40	¼ in	Steel	¼ in Nutsetter, 5/16 in Nutsetter, Impact Ready Sleeve, 3 in Impact Ready Screw Lock Holder, 6-2 in PH2 Impact Ready Bit, 2 in SQ2 Impact Ready Bit, 2 in T25 Impact Ready Bit, 2 in SL8 Impact Ready Bit, (4) 1 in PH2 Bit, (2) 1 in SL8 Impact Ready Bit, 1 in	DeWalt	**20UH16**
50	¼ in	Steel	(1) Compact Bit Holder, (1) ¼ in Magnetic Nut Driver, (1) 5/16 in Magnetic Nut Driver, (1) ⅜ in Socket Adapter, (1) ½ in Socket Adapter, (1) Insert PH1 Bit, (4) Insert PH2 Bits, (2) Insert Phillips Recessed Bits, (2) Insert PH3 Bits, (1) Insert SQ1 Bit, (4) Insert SQ2 Bits, (3) Insert SQ3 Bits, (1) Insert T15 Bit, (2) Insert T20 Bits, (5) Insert T25 Bits, (1) Insert T30 Bit, (1) Insert SL#6 Bit, (1) Insert SL#10 Bit, (1) Insert 3/16 in Hex Bit, (1) Insert ¼ in Hex Bit, (2) 2 in PH2 Bits, (1) 2 in PH3 Bits, (2) 2 in SQ2 Bits, (1) 2 in SQ3 Bit, (1) 2 in T20 Bit, (1) 2 in T25 Bit, (1) 1/16 in Titanium Red Helix Bit, (1) 3/32 in Titanium Red Helix Bit, (2) ⅛ in Titanium Red Helix Bit, (1) 3/16 in Titanium Red Helix Bit, (1) 7/32 in Titanium Red Helix Bit, (1) ¼ in Titanium Red Helix Bit	Milwaukee	**48ZJ62**
60	¼ in	Steel	Compact Bit Holder, 6 in Bit Holder, Magnetic Nut Drivers ¼ in, 5/16 in, Socket Adapter ⅜ in, Hex Drill Bits 1/16 in, 3/32 in, ⅛ in, 5/32 in, 3/16 in, ¼ in, Double Ended Power Bits PH2/SQ2, PH2/T25, PH2/SL#10, T20/T25, Insert Driver Bits PH1, (6) PH2, PR2, (2) PH3, SQ1, (3) SQ2, SQ3, T10, T15, (2) T20, (3) T25, T30, SL#6, SL#10, Hex 3/16 in, Hex ¼ in, 2 in Power Bits PH1, (4) PH2, (2) PH3, SQ1, (3) SQ2, SQ3, (2) T20, (2) T25, T30, SL#10	Milwaukee	**415H78**
65	¼ in	Steel	Compact Magnetic Bit Holder, ¼ in Magnetic Nut Driver, 5/16 in Magnetic Bit Holder, ¼ in Socket Adapter, 1 in PH1, 1 in PH2, 1 in PH3, 1 in PR2, 1 in SQ1, 1 in SQ2, 1 in SQ3, 1 in T10, 1 in T15, 1 in T20, 1 in T25, 1 in T27, 1 in T30, 1 in T40, 1 in Slotted #8, 1 in Slotted #10, 1 in 3/16 in Hex, 1 in ¼ in Hex, 1 in Torx Security T7, 1 in Torx Security T8, 1 in Torx Security T9, 1 in Torx Security T10, 1 in Torx Security T15, 1 in Torx Security T20, 1 in Torx Security T25, 1 in Torx Security T27, 1 in Torx Security T30, 1 in Torx Security T40, 1 in 5/64 in Hex Security, 1 in 3/32 in Hex Security, 1 in 7/64 in Hex Security, 1 in ⅛ in Hex Security, 1 in 9/64 in Hex Security, 1 in 5/32 in Hex Security, 1 in 3/16 in Hex Security, 1 in 7/32 in Hex Security, 1 in ¼ in Hex Security, 1 in Spanner #6, 1 in Spanner #8, 1 in Spanner #10, 1 in Spanner #12, 1 in ⅛ in Clutch, 1 in 5/32 in Clutch, 1 in 3/16 in Clutch, 1 in PZ1, 1 in PZ2, 1 in PZ3, 1 in TRI-WING #1, 1 in TRI-WING #2, 1 in TRI-WING #3, 1 in TRI-WING #4, 1 in TRI-WING #5, 1 in TORQ-SET #4, 1 in TORQ-SET #6, 1 in TORQ-SET #8, 1 in TORQ-SET #10, 1 in Spline #4, 1 in Spline #5, 1 in Spline #6, 1 in Spline #8, 1 in Insert Bit HEADLOK Screw	Milwaukee	**415H87**
175	¼ in	Steel	Phillips Ribbed, Slotted , Phillips, Pozi Phillips, Hex, Torx(R), Spline, Roberts, Security Bits, Tri Wing, Clutch Bits, Quick Change Chuck, 1 and 2 in Drive Socket Adapter, 4 to 11/16 in Screw Guide Driver, Storage Case	Westward	**1VXP2**

Impact Screwdriver Bits

- Hex shank size: ¼"

For use with impact drivers and suitable for applications requiring a high level of torque.

Phillips Double Ended 55KG89

Slotted 787P76

Torx 5EAZ0

Fastening Tool Tip Size	Overall Bit Length	Shank Style	Fastening Tool Material	Brand	Item No.	Pkg. Qty.
Headlok(R)						
Headlok	2 in	Hex	Alloy Steel	Milwaukee	**60HU41**	1
Hex						
T10, T15, T20, T25, T27, T30	1 in	Hex	Alloy Steel	Milwaukee	**415H77**	1
Phillips						
#1	1 in	Hex	S2 Steel	Milwaukee	**10Z765**	5
	2 in	Hex	S2 Steel	Milwaukee	**10Z771**	1
	6 in	Hex Power Drive	S2 Steel	DeWalt	**20GY06**	50
#2	1 in	Hex	S2 Steel	Eazypower	**52JL90**	10
	1 in	Hex	S2 Steel	Eazypower	**36JF78**	500
	1 in	Hex	S2 Steel	Milwaukee	**5EAX1**	2
	1 in	Hex	S2 Steel	Milwaukee	**5EAX2**	5
	1 in	Hex	Steel	IRWIN	**55KJ11**	20
	2 in	Hex	S2 Steel	Eazypower	**36JF70**	250
	2 in	Hex	S2 Steel	Milwaukee	**5EAX6**	1
	2 in	Hex	S2 Steel	Milwaukee	**10Z772**	15
	2 in	Hex	S2 Steel	Milwaukee	**33GM81**	25
	3 ½ in	Hex	S2 Steel	IRWIN	**783HT9**	10
	3 ½ in	Hex	S2 Steel	Milwaukee	**5EAX9**	1
	3 ½ in	Hex	S2 Steel	Milwaukee	**10Z780**	5
	3 ½ in	Hex	S2 Steel	Milwaukee	**33GN01**	25
	6 in	Hex	S2 Steel	Milwaukee	**10Z781**	1
	6 in	Hex	S2 Steel	Milwaukee	**33GN11**	10
	6 in	Hex Power Drive	S2 Steel	DeWalt	**20GY07**	50
	6 in	Hex Power Drive	S2 Steel	Westward	**38RV95**	1
#3	1 in	Hex	S2 Steel	Milwaukee	**10Z766**	5
	2 in	Hex	S2 Steel	Milwaukee	**5EAX8**	1
	2 in	Hex	S2 Steel	Milwaukee	**33GM87**	25
	3 ½ in	Hex	S2 Steel	Milwaukee	**10Z778**	1
PH2	2 in	Hex	S2 Steel	IRWIN	**55EW81**	10
	3 ½ in	Hex	S2 Steel	IRWIN	**55EW41**	1
Phillips Double-Ended						
PH2	2 ½ in	Hex	Steel	IRWIN	**55KG89**	3
	4 in	Hex	Steel	IRWIN	**55KH24**	1
Slotted						
6F-8R	1 in	Hex	S2 Steel	Milwaukee	**19RK11**	2
SL 10-12	2 in	Hex	S2 Steel	IRWIN	**787P76**	10
Square Recess						
#1	2 in	Hex	S2 Steel	Milwaukee	**5EAY5**	1
#2	1 in	Hex	S2 Steel	Milwaukee	**5EAY3**	10
	2 in	Hex	S2 Steel	Eazypower	**36JF71**	250
	2 in	Hex	S2 Steel	Milwaukee	**5EAY7**	5
	2 in	Hex	S2 Steel	Milwaukee	**33GM82**	25
	3 ½ in	Hex	S2 Steel	Milwaukee	**5EAY9**	1
	6 in	Hex	S2 Steel	Milwaukee	**33GN13**	10
	6 in	Hex Power Drive	S2 Steel	Westward	**38RV96**	1
#3	2 in	Hex	S2 Steel	Milwaukee	**33GM94**	25
Torx(R)						
T15	2 in	Hex	S2 Steel	Milwaukee	**5EAZ0**	1
T20	1 in	Hex	S2 Steel	Milwaukee	**33GM76**	25
	6 in	Hex	Steel	IRWIN	**55KH35**	1
T25	2 in	Hex	S2 Steel	Milwaukee	**33GM84**	25
	3 ½ in	Hex	Alloy Steel	Milwaukee	**60HU31**	1
T30	1 in	Hex	S2 Steel	IRWIN	**34E573**	25
T40	2 in	Hex	S2 Steel	Milwaukee	**33GM97**	25

Rotary Drill and Hammer Drill Bits for Concrete and Masonry

3-Flat Shank Masonry 4KZ93

Hex-Shank Impact-Rated 46U359

Round-Shank Masonry 6PTC8

3-Flat Shank Set 4PC22

Drill Bit Size	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.	Pkg. Qty.
3-Flat Shank Concrete Screw-Installation Bits & Sleeves						
5/32"	3"	4 1/2"	25/64 in	Tapcon	**4AL07**	1
3/16"	3"	4 1/2"	25/64 in	Tapcon	**4AL10**	1
3/16"	3 7/8"	5 1/2"	25/64 in	Tapcon	**4AL11**	1
3-Flat Shank Masonry Drill Bits for Rotary Drills						
1/8"	2"	3"	1/8 in	DeWalt	**4KZ93**	1
5/32"	4"	6"	1/4 in	DeWalt	**4PC23**	1
3/16"	2"	3"	3/16 in	DeWalt	**4KZ94**	1
3/16"	4"	6"	3/16 in	DeWalt	**4KZ95**	1
3/16"	4"	6"	3/16 in	DeWalt	**1ELE3**	25
1/4"	2"	4"	1/4 in	DeWalt	**4KZ96**	1
1/4"	4"	6"	1/4 in	DeWalt	**4KZ97**	1
5/16"	4"	6"	5/16 in	DeWalt	**4KZ99**	1
3/8"	4"	6"	3/8 in	DeWalt	**4LC02**	1
1/2"	4"	6"	1/2 in	DeWalt	**4LC05**	1
5/8"	4"	6"	1/2 in	DeWalt	**4LC07**	1
3/4"	4"	6"	1/2 in	DeWalt	**4LC09**	1
Hex-Shank Impact-Rated Concrete & Masonry Drill Bits						
5/32"	3"	6"	1/4 in	Bosch	**46U359**	5
3/16"	4"	6"	1/4 in	Bosch	**46U360**	5
3/16"	4"	6"	3/16 in	Bosch	**46U331**	1
3/16"	4"	6"	1/4 in	Bosch	**46U363**	10
1/4"	4"	6"	1/4 in	Bosch	**46U333**	1
1/4"	4"	6"	1/4 in	Bosch	**46U362**	5
1/4"	4"	6"	1/4 in	Bosch	**26KR30**	25
1/4"	4"	6"	—	DeWalt	**45HF07**	1
5/16"	4"	6"	5/16 in	Bosch	**46U336**	1
3/8"	4"	6"	5/16 in	Bosch	**46U339**	1
1/2"	4"	6"	5/16 in	Bosch	**46U343**	1
Multi-Material Hex-Shank Concrete & Masonry Drill Bits						
1/8"	3"	4 1/2"	1/4 in	DeWalt	**34D629**	1
3/16"	3"	4 1/2"	1/4 in	DeWalt	**34D631**	1
1/4"	3"	4 3/4"	1/4 in	DeWalt	**34D633**	1
1/4"	4"	6"	1/4 in	Bosch	**48XX32**	1
3/8"	4"	6"	3/8 in	Bosch	**46U372**	1
1/2"	4"	6"	1/2 in	Bosch	**46U374**	1
Round-Shank Masonry Drill Bits						
5/32"	3"	6"	25/64 in	Bosch	**53DM27**	5
3/16"	4"	6"	3/16 in	Bosch	**53DM28**	1
3/16"	2 3/4"	4"	3/16 in	Westward	**6PTC8**	1
1/4"	2 3/4"	4"	1/4 in	Westward	**6PTE3**	1
1/4"	4 1/2"	6"	1/4 in	Westward	**6PTD5**	1
1/4"	11 1/2"	13"	3/16 in	Westward	**6PTF5**	1
5/16"	4 1/2"	6"	5/16 in	Westward	**6PTD9**	1
3/8"	4 1/2"	6"	3/8 in	Westward	**6PTD8**	1
3/8"	16 1/4"	18"	3/8 in	Westward	**6PTE5**	1
1/2"	4 1/2"	6"	3/8 in	Westward	**6PTD7**	1
1/2"	11 1/2"	13"	13/32 in	Westward	**6PTD2**	1
1/2"	16 1/4"	18"	13/32 in	Westward	**6PTE0**	1

Number of Drill Bits	Drill Bit Sizes Included	Brand	Item No.
3-Flat Shank Drill Bit Sets			
4	3/16 in, 1/4 in, 5/16 in, 3/8 in	DeWalt	**4PC22**
7	3/16 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in	DeWalt	**4KZ92**
Hex-Shank Hammer Drill Bit Sets			
3	5/32 in, 3/16 in, 1/4 in	DeWalt	**45HF08**
5	1/8 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in	Bosch	**46U355**
5	5/32 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in	Bosch	**46U356**
7	1/8 in, 5/32 in, 3/16 in, 1/4 in, 3/8 in	Bosch	**46U358**
Multi-Material Hex-Shank Concrete & Masonry Drill Bit Sets			
5	1/8 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in	DeWalt	**34D628**
5	5/32 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in	Bosch	**48XX36**
Round-Shank Masonry Drill Bit Sets for Rotary Drills			
5	5/32 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in	Bosch	**46U376**
7	3/16 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in	Westward	**6PTC5**
10	1/8 in, 5/32 in, 3/16 in, 7/32 in, 1/4 in, 9/32 in, 5/16 in, 3/8 in, 7/16 in, 1/2 in	Westward	**20UR67**
14	1/8 in, 5/32 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in, 1/2 in	Bosch	**44H427**

Impact-Rated Nutsetters and Sets

- Tool insertion size: 1/4" Hex

Fastening Size	Overall Length	Finish	Brand	Item No.	Pkg. Qty.
Nutsetters					
Magnetized Tip Yes					
1/4"	1 7/8 in	Black Electrophoresis	Westward	**38RV63**	3
	1 7/8 in	Black Phosphate	Milwaukee	**33GN18**	10
	1 7/8 in	Black Phosphate	Milwaukee	**5ECC1**	1
	1 3/4 in	Unfinished	Apex	**5UFG8**	1
	2 9/16 in	Black Phosphate	Milwaukee	**5ECD0**	1
	2 9/16 in	Black Phosphate	Milwaukee	**33GN22**	10
	2 1/2 in	Sand Blasted	Westward	**1VXN2**	3
	4 in	Black Oxide	IRWIN	**55EW52**	1
	6 in	Black Oxide	IRWIN	**55EW55**	1
	6 in	Unfinished	Apex	**5UFG4**	1
5/16"	1 7/8 in	Black Electrophoresis	Westward	**38RV64**	3
	1 7/8 in	Black Phosphate	Milwaukee	**33GN19**	10
	1 7/8 in	Black Phosphate	Milwaukee	**5ECC2**	1
	1 1/2 in	Black Phosphate	Milwaukee	**36GG55**	3
	1 3/4 in	Unfinished	Apex	**5UFG9**	1
	2 in	Black Oxide	DeWalt	**55HE77**	1
	2 9/16 in	Black Phosphate	Milwaukee	**5ECD1**	1
	2 9/16 in	Black Phosphate	Milwaukee	**33GN23**	10
	4 in	Black Oxide	IRWIN	**55EW54**	1
	6 in	Unfinished	Apex	**5UFG6**	1
3/8"	1 7/8 in	Black Phosphate	Milwaukee	**5ECC8**	3
	1 7/8 in	Black Phosphate	Milwaukee	**5ECC3**	1
	1 7/8 in	Black Phosphate	Milwaukee	**33GN20**	10
	1 3/4 in	Unfinished	Apex	**5UFH0**	1
	2 9/16 in	Black Phosphate	Milwaukee	**5ECD2**	1
	2 9/16 in	Black Phosphate	Milwaukee	**33GN24**	10
	6 in	Black Oxide	IRWIN	**55EW56**	1
7/16"	2 9/16 in	Black Phosphate	Milwaukee	**5ECD3**	1
	2 9/16 in	Black Phosphate	Milwaukee	**33GN25**	10
1/2"	2 9/16 in	Black Phosphate	Milwaukee	**10Z764**	1
7mm	2 9/16 in	Black Phosphate	Milwaukee	**33GN30**	10
10mm	2 9/16 in	Black Phosphate	Milwaukee	**33GN27**	10
13mm	2 9/16 in	Black Phosphate	Milwaukee	**33GN29**	10
Magnetized Tip No					
9/16"	3 in	Corrosion Resistant	Makita	**40KG34**	1
	12 in	Corrosion Resistant	Makita	**40KG39**	1
3/4"	12 in	Corrosion Resistant	Makita	**40KG36**	1

Nutsetter 5UFG8

Set 785HR4

Number of Nutsetters Included	Fastening Size	Overall Length	Finish	Brand	Item No.
Nutsetter Sets					
Magnetized Tip Yes					
3	1/4 in, 5/16 in, 3/8 in	1 7/8 in	Black Oxide	IRWIN	**55EW47**
	1/4 in, 5/16 in, 5/8 in	1 7/8 in	Black Phosphate	Milwaukee	**4RRP3**
4	1/4 in, 5/16 in, 3/8 in, 7/16 in	1 7/8 in	Black Oxide	IRWIN	**55EW49**
	1/4 in, 5/16 in, 3/8 in, 7/16 in	1 7/8 in	Black Phosphate	Milwaukee	**5ECC5**
	1/4 in, 5/16 in, 3/8 in, 7/16 in	3 1/2 in	Black Phosphate	DeWalt	**4WLT1**
5	1/4 in, 5/16 in, 3/8 in, 7/16 in, 1/2 in	1 7/8 in	Black Oxide	DeWalt	**4WLR5**
	1/4 in, 5/16 in, 3/8 in, 7/16 in, 1/2 in	2 in	Black Oxide	DeWalt	**55HE73**
Magnetized Tip No					
3	1/4 in, 5/16 in, 3/8 in	2 1/2 in	Sand Blasted	Westward	**1VXN5**
8	1/4 in, 7 mm, 5/16 in, 8 mm, 3/8 in, 10 mm, 11 mm, 7/16 in, 12 mm, 1/2 in, 13 mm	2 9/16 in	Black Oxide	Gearwrench	**785HR4**

Impact Socket Adapters, Extensions, and Accessories

Retaining Ring & Pin 19C651

Output Drive Size & Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.	Pkg. Qty.
1/4" Input Drive Flex Socket Adapters							
Male Input Drive Gender							
1/4 in Square	Female	1 457/1000 in	Black Phosphate	No	Milwaukee	**61DN61**	1
Female Input Drive Gender							
1/4 in Square	Male	1 1/2 in	Black Oxide	No	Westward	**4PRE5**	1
	Male	1 3/8 in	Black Oxide	Yes	Proto	**4UHR1**	1
3/8" Input Drive Flex Socket Adapters							
Male Input Drive Gender							
3/8 in Square	Female	1 969/1000 in	Black Phosphate	No	Milwaukee	**61DN64**	1
Female Input Drive Gender							
3/8 in Square	Male	2 1/32 in	Black Oxide	Yes	Proto	**4UHT7**	1
	Male	2 1/2 in	Black Oxide	Yes	Westward	**4LYV7**	1
1/2" Input Drive Flex Socket Adapters							
Male Input Drive Gender							
1/2 in Square	Female	2 12/25 in	Black Phosphate	No	Milwaukee	**61DN67**	1
Female Input Drive Gender							
1/2 in Square	Male	2 11/16 in	Black Oxide	No	Apex	**6UGG1**	1
	Male	2 1/2 in	Black Oxide	Yes	Westward	**4LZD4**	1
	Male	2 19/32 in	Black Oxide	Yes	Proto	**4HVA7**	1
3/4" Input Drive Flex Socket Adapters							
Male Input Drive Gender							
3/4 in Square	Female	3 311/500 in	Black Phosphate	No	Milwaukee	**61DN70**	1
Female Input Drive Gender							
3/4 in Square	Male	3 1/2 in	Black Oxide	No	Westward	**4PRC8**	1
	Male	3 1/2 in	Black Oxide	No	Wright Tool	**29AK67**	1
	Male	3 1/2 in	Black Oxide	No	Proto	**1AX64**	1

Flex Socket Adapter 29AK67

Socket Adapter Set 45KG87

Extension 52AY73

Socket Adapter 61DN60

Output Drive Size & Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.	Pkg. Qty.
1" Input Drive Flex Socket Adapters							
Male Input Drive Gender							
1 in Square	Female	4 181/250 in	Black Phosphate	No	Milwaukee	**61DN73**	1
Female Input Drive Gender							
1 in Square	Male	4 19/32 in	Black Oxide	No	Proto	**1ACR9**	1
1 1/2" Input Drive Flex Socket Adapters							
Female Input Drive Gender							
1 1/2 in Square	Male	6 19/64 in	Black Oxide	No	Proto	**19ZA61**	1

Output Drive Size & Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.	Pkg. Qty.
#5 Spline Input Drive Socket Adapters							
Female Input Drive Gender							
1 in Square	Male	4 3/8 in	Black Oxide	No	Proto	**1AKF7**	1
1/4" Input Drive Socket Adapters							
Male Input Drive Gender							
3/8 in Square	Female	31/32 in	Black Phosphate	No	Milwaukee	**61DN60**	1

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Impact Socket Adapters, Extensions, and Accessories

Output Drive Size & Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.	Pkg. Qty.
¼" Hex Input Drive Socket Adapters							
Male Input Drive Gender							
¼ in Square	Male	1 ⅞ in	Black Oxide	No	Milwaukee	**5ECA8**	1
	Male	2 in	Black Oxide	Yes	DeWalt	**4WM51**	1
	Male	2 35⁄64 in	Black Oxide	Yes	DeWalt	**2KLR4**	1
	Male	6 in	Natural	Yes	Westward	**4PRJ1**	1
⅜ in Square	Male	1 ⅞ in	Black Oxide	No	Milwaukee	**5ECA9**	1
	Male	2 in	Black Oxide	Yes	DeWalt	**4WM52**	1
	Male	2 35⁄64 in	Black Oxide	Yes	DeWalt	**34D711**	25
	Male	2 in	Black Oxide	Yes	IRWIN	**55EW23**	1
	Male	4 in	Black Oxide	No	Proto	**1AT22**	1
	Male	4 in	Natural	Yes	Westward	**4PRJ2**	1
	Male	6 in	Black Oxide	No	Proto	**1AT23**	1
½ in Hex	Male	3 in	Black Oxide	Yes	IRWIN	**55KH28**	5
½ in Square	Male	1 ⅞ in	Black Phosphate	No	Milwaukee	**61DK16**	1
	Male	2 35⁄64 in	Black Oxide	Yes	DeWalt	**34D712**	25
	Male	2 in	Black Oxide	Yes	IRWIN	**55EW21**	1
¼" Input Drive Socket Adapters							
Female Input Drive Gender							
⅜ in Square	Male	1 in	Black Oxide	Yes	Westward	**4PRE4**	1
¼" Hex Input Drive Socket Adapters							
Female Input Drive Gender							
¼ in Hex	Male	1 ½ in	Black Oxide	No	Milwaukee	**36GG49**	1
	Male	2 in	Black Oxide	Yes	IRWIN	**55KH27**	10
⅜" Input Drive Socket Adapters							
Male Input Drive Gender							
¼ in Square	Female	1 5⁄64 in	Black Phosphate	No	Milwaukee	**61DN62**	1
⅜ in Square	Male	1 ⅞ in	Black Oxide	Yes	Apex	**61UM49**	1
½ in Square	Female	1 27⁄64 in	Black Phosphate	No	Milwaukee	**61DN63**	1
Female Input Drive Gender							
¼ in Hex	Male	1 ⅞ in	Black Oxide	No	Milwaukee	**5ECA4**	1
¼ in Square	Male	1 ¼ in	Black Oxide	Yes	Westward	**4LZA6**	1
	Male	1 in	Black Oxide	Yes	IRWIN	**30TJ82**	1
½ in Square	Male	1 7⁄16 in	Black Oxide	Yes	Westward	**4LZA7**	1
	Male	1 5⁄16 in	Black Oxide	Yes	Proto	**1FK44**	1
7⁄16" Hex Input Drive Socket Adapters							
Male Input Drive Gender							
½ in Square	Male	2 ¾ in	Black Oxide	No	Westward	**45KG97**	1
	Male	2 ¾ in	Black Oxide	No	Milwaukee	**419J55**	1
½" Input Drive Socket Adapters							
Male Input Drive Gender							
¼ in Square	Male	1 ⅞ in	Black Oxide	No	Milwaukee	**5ECA5**	1
⅜ in Square	Female	1 ½ in	Black Phosphate	No	Milwaukee	**61DN65**	1
¾ in Square	Female	1 57⁄64 in	Black Phosphate	No	Milwaukee	**61DN66**	1
Female Input Drive Gender							
⅜ in Square	Male	1 ½ in	Black Oxide	Yes	Westward	**4LYY7**	1
	Male	1 in	Black Oxide	Yes	IRWIN	**30TJ81**	1
	Male	1 ½ in	Black Oxide	Yes	DeWalt	**2KLR3**	1
	Male	1 7⁄16 in	Black Oxide	Yes	Proto	**1FK43**	1
¾ in Square	Male	1 ⅞ in	Black Oxide	Yes	Westward	**4LYY8**	1
	Male	1 29⁄32 in	Black Oxide	Yes	Proto	**1AW11**	1
1" Input Drive Socket Adapters							
Male Input Drive Gender							
1 in Square	Female	2 ¾ in	Black Phosphate	No	Milwaukee	**61DN71**	1
1 ½ in Square	Female	3 35⁄64 in	Black Phosphate	No	Milwaukee	**61DN72**	1
Female Input Drive Gender							
¾ in Square	Male	2 ⅞ in	Black Oxide	No	Westward	**21WM79**	1
	Male	2 ⅞ in	Black Oxide	No	Proto	**1AX66**	1
1 in Spline	Male	4 ½ in	Black Oxide	No	Proto	**1ACT2**	1
1 ½ in Square	Male	3 ½ in	Black Oxide	No	Wright Tool	**29AN47**	1
	Male	3 ½ in	Black Oxide	No	Proto	**1ACT1**	1
1½" Input Drive Socket Adapters							
Female Input Drive Gender							
1 in Square	Male	4 5⁄16 in	Black Oxide	No	Wright Tool	**29AR88**	1
2 ½ in Square	Male	4 ⅜ in	Black Oxide	No	Wright Tool	**29AR89**	1

Output Drive Size	Output Drive Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.
¼ in, ⅜ in, ½ in Input Drive Socket Adapter Set							
Male Input Drive Gender							
¼ in, ⅜ in, ½ in	Square	Female	1 in, 1 7⁄16 in, 1 15⁄16 in, 2 ½ in	Black Phosphate	No	Milwaukee	**61DN82**
¼ in Input Drive Socket Adapter Set							
Male Input Drive Gender							
¼ in, ⅜ in, ½ in	Square	Male	1 ⅞ in	Black Oxide	No	Milwaukee	**19RK08**
	Square	Male	1 ⅞ in	Black Oxide	Yes	Apex	**61UM47**
¼ in, ⅜ in, ½ in, ¾ in Input Drive Socket Adapter Set							
Female Input Drive Gender							
¼ in, ⅜ in, ½ in, ¾ in	Square	Male	1 in, 1 7⁄16 in, 1 29⁄32 in, 2 1⁄16 in	Chrome; Black Oxide, Black Phosphate	Yes	Proto	**4JW14**
¼ in, ⅜ in, ½ in, ¾ in, 1 in Input Drive Socket Adapter Set							
Female Input Drive Gender							
¼ in, ⅜ in, ½ in, 1 in	Square	Male	1 1⁄16 in, 2 15⁄16 in	Black Oxide	Yes	Westward	**45KG87**
⅜ in Input Drive Socket Extension Set							
Male Input Drive Gender							
⅜ in	Square	Female	3 in, 6 in, 10 in	Black Phosphate	No	Milwaukee	**61DN58**
Female Input Drive Gender							
⅜ in	Spline	Male	3 in, 6 in, 12 in	Black Oxide	No	IRWIN	**30TJ80**
	Square	Male	3 in, 6 in, 12 in	Black Oxide	Yes	Proto	**5PZL9**
	Square	Male	3 in, 6 in, 12 in	Black Oxide	No	Proto	**45EK99**
½ in Input Drive Socket Extension Set							
Male Input Drive Gender							
½ in	Square	Female	3 in, 6 in, 10 in	Black Oxide	No	Milwaukee	**61DN59**
Female Input Drive Gender							
⅜ in, ½ in, ¾ in	Square	Male	1 31⁄64 in, 1 57⁄64 in, 2 61⁄64 in, 4 59⁄64 in, 6 57⁄64 in	Black Oxide	Yes	Westward	**4PRH6**
⅜ in	Square	Male	6 in, 9 in, 12 in	Black Oxide	No	Steelman Pro	**45XE36**

Output Drive Size	Output Drive Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.
½ in	Square	Male	2 in, 3 in, 5 in, 10 in	Black Oxide	No	Proto	**45EK98**
	Square	Male	2 in, 3 in, 5 in, 10 in	Black Oxide	No	Westward	**45KG89**
	Square	Male	3 in, 5 in, 10 in	Black Oxide	Yes	Proto	**5TH97**

Output Drive Size & Shape	Output Drive Gender	Overall Length	Finish	Locking	Brand	Item No.	Pkg. Qty.
¼" Input Drive Socket Extension							
Male Input Drive Gender							
¼ in Square	Male	2 in	Urethane Covered	No	Apex	**52AY63**	1
	Male	3 in	Urethane Covered	No	Apex	**52AY95**	1
	Male	4 in	Urethane Covered	No	Apex	**52AY57**	1
	Male	6 in	Urethane Covered	No	Apex	**52AY56**	1
	Female	3 in	Black Phosphate	No	Milwaukee	**61DN44**	1
	Female	6 in	Black Phosphate	No	Milwaukee	**61DN45**	1
⅜ in Square	Male	2 in	Urethane Covered	No	Apex	**52AY61**	1
	Male	3 in	Urethane Covered	No	Apex	**52AZ08**	1
	Male	4 in	Urethane Covered	No	Apex	**52AY64**	1
⅜" Input Drive Socket Extension							
Male Input Drive Gender							
⅜ in Square	Female	10 in	Black Phosphate	No	Milwaukee	**61DN49**	1
Female Input Drive Gender							
⅜ in Square	Male	1 ¾ in	Black Oxide	Yes	Westward	**4LZA4**	1
	Male	2 in	Urethane Covered	No	Apex	**52AY86**	1
	Male	3 in	Black Oxide	Yes	Proto	**1AT19**	1
	Male	3 in	Black Oxide	Yes	Proto	**19C374**	1
	Male	3 in	Urethane Covered	No	Apex	**52AY59**	1
	Male	4 in	Urethane Covered	No	Apex	**52AY62**	1
	Male	6 in	Black Oxide	Yes	Proto	**1AT20**	1
	Male	6 in	Black Oxide	Yes	Proto	**19C377**	1
	Male	10 in	Urethane Covered	No	Apex	**52AY92**	1
	Male	12 in	Black Oxide	Yes	Proto	**19C373**	1
	Male	12 in	Urethane Covered	No	Apex	**52AY65**	1
½" Input Drive Socket Extension							
Male Input Drive Gender							
½ in Square	Female	3 in	Black Phosphate	No	Milwaukee	**61DN50**	1
	Female	6 in	Black Phosphate	No	Milwaukee	**61DN51**	1
	Female	10 in	Black Phosphate	No	Milwaukee	**61DN52**	1
½" Input Drive Flex Socket Extension							
Female Input Drive Gender							
⅜ in Square	Male	6 in	Black Oxide	No	Steelman Pro	**45XE37**	1
	Male	9 in	Black Oxide	No	Steelman Pro	**45XE38**	1
	Male	24 in	Black Oxide	No	Steelman Pro	**45XE41**	1
	Male	36 in	Black Oxide	No	Steelman Pro	**45XE42**	1
½" Input Drive Socket Extension							
½ in Square	Male	3 in	Black Oxide	Yes	Proto	**1AW02**	1
	Male	5 in	Black Oxide	Yes	Proto	**1AW03**	1
	Male	9 in	Black Oxide	Yes	Westward	**45KG95**	1
	Male	9 in	Black Oxide	Yes	Proto	**1AW04**	1
	Male	10 in	Black Oxide	Yes	Proto	**1AW05**	1
	Female	4 in	Urethane Covered	No	Apex	**52AY73**	1
	Female	12 in	Urethane Covered	No	Apex	**52AZ09**	1
¾" Input Drive Socket Extension							
Male Input Drive Gender							
¾ in Square	Female	4 in	Black Phosphate	No	Milwaukee	**61DN53**	1
	Female	10 in	Black Phosphate	No	Milwaukee	**61DN55**	1
Female Input Drive Gender							
¾ in Square	Male	4 in	Black Oxide	No	Westward	**21WL70**	1
	Male	5 in	Black Oxide	No	Westward	**45KG94**	1
	Male	5 in	Black Oxide	No	Proto	**1Q254**	1
	Male	7 in	Black Oxide	No	Westward	**21WL72**	1
	Male	7 in	Black Oxide	No	Proto	**1AX61**	1
	Male	10 in	Black Oxide	No	Westward	**21WL71**	1
	Male	10 in	Black Oxide	No	Proto	**1AX62**	1
	Male	13 in	Black Oxide	No	Proto	**1AX63**	1
	Male	24 in	Black Oxide	No	Wright Tool	**29AK73**	1
1" Input Drive Socket Extension							
Male Input Drive Gender							
1 in Square	Female	7 in	Black Phosphate	No	Milwaukee	**61DN56**	1
Female Input Drive Gender							
1 in Square	Male	7 ⅜ in	Black Oxide	Yes	Proto	**1ACR6**	1
	Male	8 in	Black Oxide	No	Wright Tool	**29AR90**	1
	Male	10 in	Black Oxide	Yes	Proto	**1ACR7**	1
	Male	13 in	Black Oxide	Yes	Proto	**1ACR8**	1
	Male	17 in	Chrome	No	Wright Tool	**29AN40**	1
	Male	24 in	Black Oxide	No	Wright Tool	**29AN51**	1
1½" Input Drive Socket Extension							
Female Input Drive Gender							
1 ½ in Square	Male	8 in	Black Oxide	No	Proto	**1AFR0**	1
	Male	12 in	Black Oxide	No	Wright Tool	**29AR91**	1
	Male	12 in	Black Oxide	No	Proto	**1AFR1**	1
	Male	15 in	Black Oxide	No	Proto	**1AFR2**	1

For Drive Size	Ring Material	Pin Material	Ring Inner Diameter	Crush Gauge	Brand	Item No.	Pkg. Qty.
One-Piece Socket Retaining Ring & Pins							
⅜	Resin	Resin	13⁄64 in	No	Proto	**19C651**	1
	Resin	Resin	¾ in	No	Proto	**19C650**	1
	Resin	Resin	1 3⁄16 in	No	Proto	**19C647**	1
	Resin	Resin	1 3⁄32 in	No	Proto	**19C646**	1
½	Resin	Resin	⅞ in	Yes	Proto	**10H819**	1
¾	Resin	Resin	2 ¼ in	Yes	Proto	**10H830**	1
1	Resin	Resin	2 ⅛ in	Yes	Proto	**1UDP6**	1
	Resin	Resin	2 in	Yes	Proto	**1UDP5**	1
	Resin	Resin	2 ¼ in	Yes	Proto	**1UDP7**	1
	Resin	Resin	2 ⅝ in	Yes	Proto	**10H831**	1
Two-Piece Impact Socket Retaining Pins							
¾	—	Alloy Steel	—	No	Proto	**1AX76**	1
1	—	Alloy Steel	—	No	Proto	**1ACT8**	1
Two-Piece Impact Socket Retaining Rings							
¾	Alloy Steel	—	¾ in	No	Proto	**1AX77**	1
1	Alloy Steel	—	2 ¼ in	No	Proto	**1ACW1**	1
	Alloy Steel	—	2 in	No	Proto	**1ACW0**	1

39RV99

54EF82

Corded SDS Plus® Rotary Hammer Drills

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
Pistol Grip Rotary Hammer Drills										
¾ in	1 ½ in	0-1000	0-4,400 bpm	6.1 A	Dual Mode Selector, Integral Clutch Helps Minimize Torque Reaction	13 ¾ in	5.4 lb	Bosch	11250VSR	**35KG01**
1 in	2 ½ in	0-1500	0-5,500 bpm	8.0 A	High Performance Motor, Integral Clutch, Pistol Grip Handle, Rotating Brush Ring	13 ¼ in	5.7 lb	DeWalt	D25133K	**39RW17**
D-Handle Rotary Hammer Drills										
1 ⅛ in	2 ½ in	0-1450	0-5,350 bpm	8.5 A	High Performance Motor, Integral Clutch, Rotating Brush Ring, Vibration Control	17 ½ in	6.8 lb	DeWalt	D25263k	**39RV99**
1 in	2 ½ in	0-1500	0-5,540 bpm	8.0 A	High Performance Motor, Integral Clutch, Rotating Brush Ring, Vibration Control	17 ¼ in	6.6 lb	DeWalt	D25262K	**39RW23**
1 in	2 ⅝ in	0-1300	0-5,800 bpm	7.5 A	Aux Handle with Built-In Quick Release Depth Gauge, D-Handle	17 ¼ in	6.7 lb	Bosch	11255VSR	**2LDB3**
1 ⅛ in	2 ½ in	0-1300	0-5,100 bpm	8.5 A	Counter Balanced Vibration Control, Hammer Hook, Kickback Control, Multifunction Selector, Vario-Lock(TM)	17 ⅜ in	6.9 lb	Bosch	GBH2-28L	**54EF82**
Corded Side Handle Drills										
1 ⅛ in	—	0-820	0-4,700 bpm	9.0 A	Active Vibration Control, Anti-Rotational Technology, Grounded Plug, Three Modes of Operation, Variable Speed Trigger	14 ⅝ in	9.2 lb	DeWalt	D25416K	**30RV74**
1 ⅛ in	2 ½ in	0-1000	0-5,200 bpm	8.5 A	3.5 J, Constant Speed, Low Vibration Side Handle, Shocks Active Vibration Control(R) System	14 in	8.2 lb	DeWalt	D25333K	**54JJ36**
L-Shape Rotary Hammer Drills										
½ in	2 ½ in	0-1000	0-5,200 bpm	—	3.5 J, Constant Speed, Durable Clear High Capacity Dust Box, Easily Adjusted Depth Stop, Low Vibration Side Handle, Quick Release, Shocks Active Vibration Control(R) System	14 in	8.2 lb	DeWalt	D25333KDH	**54JJ37**
1 ⅛ in	2 ½ in	0-1150	0-5,200 bpm	4.0 A	Compact, Lightweight, Mechanical Clutch	14 in	8.2 lb	DeWalt	D25333K-QS	**437K02**
1 ⅛ in	3 ⅛ in	0-900	0-4,000 bpm	8.0 A	Active Vibration Control, Rotary or Hammer Only and Rotation	13 ⅝ in	7.9 lb	Bosch	RH328VCQ	**5EEW2**
1 ¼ in	3 ½ in	0-760	0-3,600 bpm	8.5 A	Active Vibration Control	15 ¾ in	10.3 lb	Bosch	RH432VCQ	**5EEW3**
1 ⅛ in	3 ⅛ in	0-900	0-4,000 bpm	8.0 A	360° Auxiliary Handle, Integral Clutch, Multi-function Selector, Variable Speed 3 Finger Trigger, Active Vibration Control(TM)	12 ½ in	7.7 lb	Bosch	RH328VC	**49AX82**

Description	Mfr. Model	Item No.
Accessories		
Bosch		
Chuck Adapter w/Key and SDS Plus Arbor Adapter	1618571014	**1UL64**
Dust Extraction Surface Attachment, For Use with 1⅜ in Vacuum Hoses	HDC250	**35GN78**
Dust Extraction Surface Attachment, For Use with 1⅜ in Vacuum Hoses	HDC200	**35GN79**
Dust Extraction Tool Attachment, For Use with 11255VSR, 11536-C, 11536VSR, Mfr. No. 11253VSR, RH228VC, RH328VC, RH328VCQ, RHH181-01	HDC100	**423N84**
Right-Angle Attachment, 4½" L	RHA-50	**35KF98**
SDS Right Angle Attachment, 5⅛" L	1618580000	**2LDB4**
DeWalt		
Dust Extractor - Hole Cleaning; Includes 5⁄16 and 9⁄16" Hole Cleaning Tubes, 1½ and 2" Hole Drilling Head Attachments, Dust Extractor Body	DWH050K	**19M477**
On-Tool Dust Extractor, Dust Box, Corded Adapter and Dust Nozzle	DWH304DH	**54JJ53**

SDS-Plus Concrete and Masonry Drill Bits

- Shank size: 25⁄64" dia.

Carbide-Head bits have a cutting head of solid carbide construction for long life compared to standard bits that only have a carbide tip. All bits have an SDS-Plus shank that prevents them from slipping in high-torque drilling applications and are compatible with SDS-Plus chucks that allow one-handed drill bit changeouts.

2 Cutters
36H212

Drill Bit Size	Maximum Drilling Depth	Overall Length	Brand	Item No.	Pkg. Qty.
Carbide-Head SDS-Plus Concrete & Masonry Drill Bits					
2 Cutters					
5⁄32"	4"	6"	Bosch	**48XX38**	1
3⁄16"	4"	6½"	Bosch	**36H184**	1
¼"	4"	6"	Bosch	**36H188**	1
	6"	8½"	Bosch	**36H189**	1
	8"	10"	Bosch	**48XX44**	1
	10"	12"	Bosch	**36H190**	1
⅜"	4"	6"	Bosch	**36H193**	1
	10"	12"	Bosch	**36H194**	1
	16"	18"	Bosch	**36H195**	1
½"	4"	6"	Bosch	**36H210**	1
	10"	12"	Bosch	**36H212**	1
	16"	18"	Bosch	**36H214**	1
⅝"	6"	8"	Bosch	**36H215**	1
	10"	12"	Bosch	**36H181**	1
	16"	18"	Bosch	**36H182**	1
4 Cutters					
¼"	6"	8½"	DeWalt	**2PRF9**	25
⅜"	8"	10"	DeWalt	**2PRG7**	1
	10"	12"	DeWalt	**38A908**	1
	16"	18"	DeWalt	**2PRG8**	1
¾"	6"	8"	Bosch	**48XX52**	1
	8"	10"	Bosch	**36H216**	1
	16"	18"	Bosch	**36H217**	1
⅞"	10"	12"	Bosch	**48XX53**	1
1"	8"	10"	Bosch	**36H220**	1
	16"	18"	Bosch	**36H221**	1
1⅛"	16"	18"	Bosch	**36H223**	1
SDS-Plus Concrete & Masonry Drill Bits					
2 Cutters					
3⁄16"	4"	6"	Bosch	**19L458**	1
¼"	2"	4"	DeWalt	**4TG17**	1
	6"	6"	DeWalt	**1ELF1**	25
	6"	8½"	DeWalt	**4TG21**	1
	10"	12"	DeWalt	**4TG23**	1
	16"	18"	Bosch	**44H210**	1
⅜"	4"	6"	DeWalt	**4TG28**	1
	6"	8"	Bosch	**44H218**	1
	8"	10"	DeWalt	**4TG30**	1
	10"	12"	Milwaukee	**23Y528**	1
	22"	24"	DeWalt	**4TG33**	1
	37"	39"	Bosch	**44H221**	1
½"	4"	6"	DeWalt	**4TG36**	1
	6"	8"	Bosch	**44H226**	1
	10"	12"	Bosch	**19L457**	1
	16"	18"	DeWalt	**4TG40**	1
	22"	24"	DeWalt	**4TG41**	1
	37"	39"	Bosch	**44H229**	1
⅝"	6"	8"	DeWalt	**4TG45**	1
	6"	8"	Bosch	**19L460**	1
	10"	12"	Bosch	**19L465**	1
	16"	18"	DeWalt	**4TG48**	1
	37"	39"	Bosch	**44H233**	1
¾"	6"	8"	DeWalt	**4TG51**	1
	6"	8"	Bosch	**19L466**	1
	16"	18"	DeWalt	**4TG53**	1
	22"	24"	DeWalt	**4TG54**	1
	37"	39"	Bosch	**44H234**	1
⅞"	6"	8"	DeWalt	**4TG55**	1
	10"	12"	DeWalt	**4TG56**	1
1"	8"	10"	DeWalt	**4TG58**	1
	16"	18"	Bosch	**19L463**	1
1⅛"	16"	18"	DeWalt	**4DV51**	1
4 Cutters					
⅜"	10"	12"	Milwaukee	**23Y504**	1
⅝"	8"	10"	DeWalt	**2KLJ1**	1
	10"	12"	Milwaukee	**23Y564**	1
1¼"	16"	18"	Milwaukee	**45KP07**	1

Number of Drill Bits	Drill Bit Sizes Included	Brand	Item No.
SDS-Plus Concrete & Masonry Drill Bit Sets			
2 Cutters			
5	3⁄16 in, ¼ in, ⅜ in, ½ in	DeWalt	**4TG60**
7	3⁄16 in, ¼ in, 5⁄16 in, ⅜ in, ½ in	Bosch	**48XX67**
10	5⁄32 in, 11⁄64 in, 3⁄16 in	DeWalt	**1GEF8**
4 Cutters			
5	3⁄16 in, ¼ in, ⅜ in, ½ in	Bosch	**44H334**
6	3⁄16 in, ¼ in, 5⁄16 in, ⅜ in, ½ in, ⅝ in	Milwaukee	**45KP09**

SDS-Plus Rebar Cutting Drill Bits

- Max. drill depth: 10"
- Overall length: 12"

Used after standard concrete and masonry drill bits have drilled through the concrete surrounding the embedded rebar or wire mesh.

2PPZ6

Drill Bit Size	Shank Diameter	Brand	Item No.
1¼"	⅜ in	Bosch	**2PPZ9**
1⅛"	⅜ in	Bosch	**2PPZ8**
½"	⅜ in	Bosch	**2PPZ2**
	½ in	DeWalt	**56DL81**
¾"	⅜ in	Bosch	**2PPZ5**
	¾ in	DeWalt	**56DL83**
⅜"	⅜ in	Bosch	**2PPZ1**
⅝"	⅜ in	Bosch	**2PPZ4**
	⅝ in	DeWalt	**56DL82**
⅞"	⅜ in	Bosch	**2PPZ6**
	⅞ in	DeWalt	**56DL84**
9⁄16"	⅜ in	Bosch	**2PPZ3**
1"	⅜ in	Bosch	**2PPZ7**
	1 in	DeWalt	**56DL85**

SDS-Plus Dust-Extraction Hollow Core Bits

Have a hollow shaft and dust-extraction holes at their tip that allow dust removal with a dust extractor during drilling.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.
2 Cutters					
½"	9¾"	14½"	25⁄64"	DeWalt	**54FH75**
4 Cutters					
5⁄16"	4"	9"	45⁄64"	Bosch	**55JD97**
7⁄16"	7½"	13"	45⁄64"	Bosch	**55JE08**
½"	7½"	13"	25⁄64"	Bosch	**48UR89**
	7½"	13"	45⁄64"	Bosch	**55JE09**
⅝"	10"	15"	25⁄64"	Bosch	**48UR91**
11⁄16"	12½"	18"	25⁄64"	Bosch	**48UR92**
¾"	12½"	18"	25⁄64"	Bosch	**48UR93**

48UR93

What is SDS-Plus?

SDS-Plus bits have grooves on the shanks that lock securely into a spring-loaded chuck that prevents bits from slipping during high-torque drilling applications. They can be inserted and removed from the tool without tightening or loosening the chuck for one-handed bit changeouts. Drill bits are only compatible with rotary or hammer drills having an SDS-Plus chuck.

SDS-Plus Concrete Screw-Installation Bits and Sleeves

4AL12

- 2 cutter head
- Shank size: 25/64" dia.

Feature a drill sleeve that slides over the bits to stabilize them when creating holes for self-tapping concrete and masonry anchor screws.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Brand	Item No.
3/32"	5"	7"	Tapcon	**15X472**
5/32"	3½"	6½"	Bosch	**19L468**
	3⅞"	5½"	Tapcon	**4AL08**
3/16"	2"	5"	Tapcon	**4AL12**
¼"	3½"	6½"	Bosch	**44H239**

Self-Sharpening Chisel Bits for SDS-Plus Hammer Drills

451N66

- Shank size: 25/64" dia.

Tip geometry allows bits to wear evenly and retain their sharpness so they don't need to be resharpened as often as standard chisel bits.

Head Width	Shank Diameter	Cutting Application	Item No.
Bull Point Chisel			
½"	25/64 in	Concrete Chipping and Breaking	**451N65**
Flat Chisel			
¾"	25/64 in	Concrete Chipping and Breaking	**451N66**
Scaling Chisel			
1½"	25/64 in	Asphalt, Concrete, Cutting Troughs, Mortar, Rust	**451N67**
Tile Chisel			
1"	25/64 in	Laminate, Mortar, Tile	**45L203**

SDS-Plus Stop Bits

Have a built-in collar that prevents the bits from drilling past a specific depth while creating holes for drop-in anchors in concrete and masonry. They allow multiple holes of the same depth to be drilled faster and more accurately than if using other types of concrete and masonry bits.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.
2 Cutters					
⅜"	¾"	4"	25/64"	Tapcon	**4CGZ8**
	1 1/16"	1 1/16"	25/64"	Bosch	**6LFH8**
½"	13/16"	13/16"	25/64"	Bosch	**6LFH9**
	13/16"	3 13/16"	25/64"	DeWalt	**54FH86**
	1 11/16"	1 11/16"	25/64"	Bosch	**6LFJ0**
⅝"	2 1/16"	2 1/16"	25/64"	Bosch	**6LFJ2**
4 Cutters					
½"	1 11/16"	5⅛"	25/64"	Milwaukee	**22UP94**

2 Cutters
4CGZ8

Chisel Bits for SDS-Plus Hammer Drills

- Shank size: 25/64" dia.

Suitable for breaking up concrete and prying and removing tile in one piece.

Head Width	Overall Length	Cutting Application	Brand	Item No.
Flat Chisel				
¾"	10 in	Chiseling Concrete/Block/Brick	Bosch	**2LDA3**
	10 in	Concrete Breaking	DeWalt	**4LC59**
1½"	10 in	Chiseling Concrete/Block/Brick	Bosch	**2LCZ5**
	12 in	Chipping	DeWalt	**34D575**
1 13/16"	10 in	Concrete Chipping and Breaking	Milwaukee	**45L220**
2½"	10 in	Chiseling Concrete/Block/Brick	Bosch	**20PK14**
Pointed Spade				
¼"	10 in	Chiseling Concrete/Block/Brick	Bosch	**2LDA4**
3"	8 in	Holemaking	Bosch	**2LDA5**
Scaling Chisel				
1½"	5 ¾ in	Surface Material Removal	Bosch	**2LDA6**
	10 in	Surface Material Removal	DeWalt	**4LC58**
1 13/16"	10 in	Rust, Scale, Asphalt, Troughs	Milwaukee	**45L221**
Scraping Chisel				
9/16"	7 in	Blocks, Brick, Natural Stone	Milwaukee	**45L204**
Tile Chisel				
1½"	10 ½ in	Tile Removal	Bosch	**2LDA2**
3"	6 in	Laminate, Tile Removal	Milwaukee	**451N68**

Flat
2LDA3

Point
2LDA4

Corded SDS-Max Rotary Hammer Drills and Demolition Hammers

48XY46

54DC99

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
Rotary Hammer Drills										
1 ⅝ in	4 ⅛ in	170-340	1,700-2,900 bpm	13.0 A	1-Hand Tool Change, Dial Speed Control, Vibration Control	19 ¼ in	15.2 lb	Bosch	11264EVS	**4GAE3**
1 9/16 in	4 in	170-340	1,500-2,900 bpm	12.0 A	Innovative Service Modules, Integral clutch	19 in	15.2 lb	Bosch	RH540M	**30RW21**
1 ⅞ in	5 in	0-355	1,305-2,705 bpm	15.0 A	Active Vibration Control(R), E-Clutch(R) System Shocks, Variable Speed	21 ⅜ in	20.3 lb	DeWalt	D25733K	**54JK33**
1 ¾ in	5 in	190-380	1,450-2,900 bpm	14.0	Shock Active Vibration Control, Variable-Speed Control, Tag Ready	20 ½ in	17.3 lb	DeWalt	D25614K	**60HH13**
1 ⅞ in	6 in	0-3000	1,380-2,750 bpm	13.5 A	Tuned Mass Damper Anti-Vibration System	21 ⅜ in	19.7 lb	Bosch	RH850VC	**21TY29**
1 ¾ in	6 in	150-305	1,380-2,750 bpm	13.5 A	Dual Mode Selector, Service Minder Light, Turbo Power, Vario-Lock Rotates Locks Chisel Into 12 Different Positions	21 in	18.5 lb	Bosch	RH745	**35ZD85**
2 in	6 in	0-290	1,105-2,210 bpm	15.0 A	Active Vibration Control(R), E-Clutch(R) System Shocks, Variable Speed	23 ¼ in	23.2 lb	DeWalt	D25773K	**54JK32**
2 in	6 in	100-220	1,000-2,150 bpm	15.0 A	2-Drilling Speeds, Active Vibration Control, Turbo Power, Vario-Lock	23 ½ in	26.2 lb	Bosch	RH1255VC	**48XY46**

Impact Energy	Blows per Minute	Amps	Features	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
Chipper Demolition Hammer								
5.2 ft-lb	0 to 3,150	10.5 A	Constant Speed Control	18 3/16 in	12.6 lb	DeWalt	D25810K	**54DC99**
5.6 ft-lb	1,350 t0 2,800	10.0 A	Tool-Free Bit Changing System, Vario-Lock(TM) Locks Chisel in 12 Different Positions	18 in	12.4 lb	Bosch	DH507	**35KF35**
6.1 ft-lb	1,300 to 2,900	13.0 A	12-Position Variable Lock Tool Holder, Dial Speed Control, Soft Grip Vibration Control, Soft Start, Hammer Only Mode	18 ⅝ in	13.7 lb	Bosch	11321EVS	**4GAE5**
9.6 ft-lb	1,380 to 2,760	14.5 A	Chisel Rotation 12 Position, Constant Response(TM) Circuitry, Power Light, Service Minder(TM) Light, Soft-Start Control and Overload Protection, Variable Speed, Vario-Lock(TM) Positioning, Vibration Control(TM)	21 5/16 in	18.3 lb	Bosch	DH712VC	**53DM92**
9.8 ft-lb	1,350 to 2,705	15.0 A	Constant Speed Control, Electronics Application, On/Off Style Rocker Switch, Shocks Active Vibration Control(R), Variable Speed Dial	21 27/64 in	19 lb	DeWalt	D25872K	**54JK35**
12.4 ft-lb	900 to 1,890	14.0 A	Electronics Package, Service Reminder Light	22 ½ in	22.5 lb	Bosch	11316EVS	**4WN49**
13.2 ft-lb	0 to 2,040	14.0 A	One Hand Chisel Rotation 12 Position, Slider Lock-on Switch	25 ¾ in	21.2 lb	DeWalt	D25899K	**2NER3**
14 ft-lb	1,020 to 2,040	14.0 A	19-Setting Electronic Variable Speed Dial, One Hand Chisel Rotation 12 Position, SHOCKS(R) Active Vibration Control	26 ¾ in	23.4 lb	DeWalt	D25901K	**2NER4**
17 ft-lb	850 to 1,800	15.0 A	Anti-Vibration Control in The Hammer Mechanism	27 ½ in	25.1 lb	Bosch	DH1020VC	**21TY31**
17.7 ft-lb	0 to 1,620	15.0 A	Constant Speed Control, Ergonomic Handle, Suitable For Bits And Accessories With SDS-Max Shank End, Vibration Control	29 45/64 in	29.3 lb	DeWalt	D25951K	**487D91**
Inline Demolition Hammer								
7.7 ft-lb	1,450 to 2,900	14.0	Shock Active Vibration Control, Variable-Speed Control, Tag Ready	20 ½ in	16.2 lb	DeWalt	D25832K	**60HH14**

Description	Mfr. Model	Item No.
Accessories		
Bosch		
SDS Max To ½-20 Arbor Adapter	HA1032	**2LDE5**
SDS Max to Spline Adapter	HA1031	**1UL72**
Shank Adapter	HA1030	**2LDE4**

What is SDS-Max?

SDS-Max bits have grooves on the shanks that lock securely into a spring-loaded chuck that prevents bits from slipping during high-torque drilling applications. They can be inserted and removed from the tool without tightening or loosening the chuck for one-handed bit changeouts. SDS Max bits have an increased capability for tougher masonry work compared to SDS-Plus. They can withstand more torque and force than SDS-Plus bits which are shorter in length and suitable for lighter duty work and smaller diameter holes than the more rugged SDS-Max bits. The SDS-Max bits are only compatible with rotary or hammer drills having an SDS-Max chuck.

45L356

SDS-Max Concrete and Masonry Drill Bits

- 4 Cutter heads

Have variable-helix flutes that efficiently remove dust from the hole to minimize heat during drilling.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.
5/32 in	4 in	6 in	13/32 in	Milwaukee	**785XZ1**
3/16 in	2 in	4 in	13/32 in	Milwaukee	**785XZ2**
5/16 in	4 in	6 in	13/32 in	Milwaukee	**785XZ3**
⅜ in	7 in	13 in	45/64 in	Milwaukee	**785XW5**
7/16 in	10 in	12 in	13/32 in	Milwaukee	**785XZ5**
½ in	8 in	13 in	½ in	Bosch	**490R46**
	23 in	28 in	45/64 in	Milwaukee	**785XW7**
	54 in	60 in	45/64 in	Milwaukee	**785XW9**
9/16 in	16 in	21 in	9/16 in	Bosch	**490R67**
	16 in	21 in	45/64 in	Bosch	**40ZJ35**
⅝ in	31 in	36 in	⅝ in	Bosch	**490R51**
	54 in	60 in	45/64 in	Milwaukee	**785XX1**
¾ in	8 in	10 in	13/32 in	Milwaukee	**785XY9**
	12 in	17 in	45/64 in	Milwaukee	**785XX2**
	31 in	36 in	45/64 in	Bosch	**40ZJ67**
13/16 in	17 in	21 in	45/64 in	Milwaukee	**785XX4**
⅞ in	8 in	10 in	13/32 in	Milwaukee	**785XZ0**
	24 in	29 in	⅞ in	Bosch	**490R65**
1 in	31 in	36 in	45/64 in	DeWalt	**5MP67**
	31 in	36 in	45/64 in	Milwaukee	**45L355**
1 1/16 in	18 in	23 in	45/64 in	Milwaukee	**45L356**
1⅛ in	24 in	29 in	45/64 in	Bosch	**40ZJ55**
	31 in	36 in	45/64 in	Milwaukee	**785XY2**
1¼ in	31 in	36 in	45/64 in	Bosch	**40ZJ59**
	31 in	36 in	45/64 in	DeWalt	**5MP69**
1⅜ in	18 in	23 in	45/64 in	Milwaukee	**45L363**
1 7/16 in	18 in	23 in	45/64 in	Milwaukee	**785XY6**
1½ in	12 in	17 in	45/64 in	Milwaukee	**785XY7**
	16 in	21 in	45/64 in	Bosch	**40ZJ32**
	18 in	23 in	45/64 in	Milwaukee	**45L365**
	20 in	22 in	45/64 in	Milwaukee	**785Y23**
1 9/16 in	18 in	23 in	45/64 in	Milwaukee	**785XY8**
1¾ in	18 in	23 in	45/64 in	Milwaukee	**45L368**
2 in	18 in	23 in	45/64 in	Milwaukee	**45L369**
3⅛ in	20 in	22 in	45/64 in	Milwaukee	**785Y24**

Chisel Bits for SDS-Max Hammer Drills

Suitable for breaking up concrete and masonry in high-torque construction and demolition applications.

Ground Rod Driver 783WN3

Spade 1UL96

Head Width	Overall Length	Shank Diameter	Cutting Application	Brand	Item No.
Asphalt Cutter					
5"	16 ½ in	45/64 in	Asphalt, Hard Ground	Milwaukee	**45L245**
	16 in	45/64 in	Tile Chiseling	DeWalt	**1EC37**
Bull Point Chisel					
¼"	18 in	45/64 in	Chiseling Concrete/Block/Brick	Bosch	**20PK78**
¾"	18 in	45/64 in	Concrete Chipping and Breaking	Milwaukee	**45L249**
1"	16 in	45/64 in	Chipping	DeWalt	**34D578**
Bushing Tool					
1½"	9 ½ in	45/64 in	Finishing, Roughing	Milwaukee	**45L226**
	10 in	45/64 in	Roughing	DeWalt	**19TF54**
1¾"	10 ½ in	45/64 in	Concrete Removal	Milwaukee	**45L244**
2"	2 in	45/64 in	Concrete Roughing	Bosch	**20PK84**
Clay Spade					
4¼"	16 in	45/64 in	Dirt, Hard Packed Gravel	Milwaukee	**451N61**
Flat Chisel					
1"	12 in	45/64 in	Breaking, Concrete Removal	DeWalt	**34D579**
	12 in	45/64 in	Concrete Breaking	DeWalt	**4LD51**
	16 in	½ in	Surface Material Removal	Bosch	**48XX78**
	16 in	45/64 in	Concrete Breaking	DeWalt	**4LD52**
	18 in	45/64 in	Chiseling Concrete/Block/Brick	Bosch	**20PK75**
	18 in	45/64 in	Concrete Chipping and Breaking	Milwaukee	**45L252**
2"	12 in	45/64 in	Surface Material Removal	DeWalt	**4LD54**
	16 in	45/64 in	Concrete Splatter, Tile Removal	DeWalt	**34D581**
3"	12 in	45/64 in	Surface Material Removal	DeWalt	**5MP70**
6"	25 in	45/64 in	Composite Removal	Bosch	**1UL95**
Ground Rod Driver					
⅝"	10 in	45/64 in	Rod Driving	Milwaukee	**783WN3**
¾"	10 in	45/64 in	Driving Ground Rods	Milwaukee	**45L257**
Pointed Spade					
¼"	12 in	45/64 in	Chiseling Concrete/Block/Brick	Bosch	**6MR15**
2"	10 in	45/64 in	Roughing	DeWalt	**4LD56**
Scaling Chisel					
1½"	12 in	45/64 in	Rust, Scale, Asphalt, Troughs	Milwaukee	**45L253**
2"	12 in	45/64 in	Rust, Scale, Asphalt, Troughs	Milwaukee	**45L254**
3"	12 in	23/32 in	Roughing	Westward	**22UV18**
Spade Chisel					
4½"	17 in	45/64 in	Digging	Bosch	**1UL96**
5"	15 in	45/64 in	Asphalt	Bosch	**1UL88**
5⅜"	16 in	45/64 in	Digging	Bosch	**2LDP7**
Tile Chisel					
2"	12 in	45/64 in	Tile Removal	Bosch	**2LDP4**

20PK61

One-Piece SDS-Max Deep-Hole Core Bits

Centering bit reduces bit walking and increases precision when drilling. Bits are ideal for creating large, shallow holes in concrete, masonry, and limestone.

Core Dia.	Maximum Drilling Depth	Overall Length	Shank Diameter	Brand	Item No.
1¾"	17 in	22 in	1 ¾ in	Bosch	**2LDE9**
2"	17 in	22 in	2 in	Bosch	**2LDF2**
2¼"	17 in	22 in	2 ¼ in	Bosch	**20PK60**
2⅝"	7 in	12 in	2 ⅝ in	Bosch	**2LDF3**
	17 in	22 in	2 ⅝ in	Bosch	**20PK61**
3¼"	17 in	22 in	3 ¼ in	Bosch	**2LDF6**
3 9/16"	17 in	22 in	3 9/16 in	Bosch	**2LDF8**
4"	7 in	12 in	4 in	Bosch	**2LDF9**
	12 in	17 in	4 in	Bosch	**2LDG1**
	17 in	22 in	4 in	DeWalt	**3AB28**
5"	7 in	12 in	5 in	Bosch	**20PK62**
	17 in	22 in	5 in	Bosch	**2LDG2**
6"	17 in	22 in	6 in	Bosch	**2LDG3**

SDS-Max Deep-Hole Drill Bits

- Shank size: 45/64" dia.

Feature a fluted head that grinds through concrete and masonry without creating a plug of material that needs to be cleared from the drill bit.

2LDG7

Drill Bit Size	Maximum Drilling Depth	Overall Length	Brand	Item No.
1¾"	18 in	24 in	Bosch	**2LDG5**
	20 in	22 in	Milwaukee	**22UP97**
2⅛"	18 in	24 in	Bosch	**2LDG6**
	20 in	22 in	Milwaukee	**22UP98**
2½"	18 in	24 in	Bosch	**2LDG7**
	20 in	22 in	Milwaukee	**22UP99**
3⅛"	18 in	24 in	Bosch	**2LDG8**

Scaling 45L255

Self-Sharpening Chisel Bits for SDS-Max Hammer Drills

- Shank size: 45/64" dia.

Design allows bits to wear evenly and retain their sharpness longer than standard chisel bits.

Head Width	Overall Length	Cutting Application	Brand	Item No.
Bull Point Chisel				
½"	16 in	Concrete Chipping and Breaking	Milwaukee	**451N62**
1"	12 in	Chipping	DeWalt	**490U06**
Flat Chisel				
1"	16 in	Concrete Chipping and Breaking	Milwaukee	**451N63**
	16 in	Chiseling Concrete/Block/Brick	Bosch	**6LFH7**
Pointed Spade				
¼"	16 in	Chiseling Concrete/Block/Brick	Bosch	**44H732**
	16 in	Chiseling Concrete/Block/Brick	Bosch	**48XX80**
1"	16 in	Chiseling Concrete/Block/Brick	Bosch	**6LFH6**
Scaling Chisel				
3"	12 in	Asphalt, Cutting Troughs, Mortar, Rust	Milwaukee	**45L255**
Scraping Chisel				
2"	12 in	Surface Material Removal	Milwaukee	**45L256**
Tile Chisel				
2"	14 in	Surface Material Removal	Bosch	**1UL94**
	15 in	Tile Removal, Laminate, Mortar	Milwaukee	**451N64**

SDS-Max Dust-Extraction Hollow Core Bits

54FH82

- Shank size: 45/64" dia.

Have a hollow shaft and dust-extraction holes that allow dust to be removed with a dust extractor during drilling. These 4-cutter bits have long life compared to 2-cutter bits and are less likely to bind up if they hit embedded rebar when drilling into concrete.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Brand	Item No.
⅝"	8"	17 in	Bosch	**55JE11**
	15¾"	23 ¾ in	DeWalt	**54FH81**
	16"	25 in	Bosch	**55JE12**
¾"	12½"	21 in	Bosch	**48UR95**
	15¾"	23 ¾ in	DeWalt	**54FH80**
⅞"	15"	25 in	Bosch	**48UR97**
	15¾"	23 ¾ in	DeWalt	**54FH82**
1"	15¾"	23 ¾ in	DeWalt	**54FH79**
	17½"	27 in	Bosch	**48UR98**
1¼"	16"	21 in	Bosch	**55JD95**

Scan. Order. Done.
Details on page A1.

4GAE4

Spline Drive Rotary Hammers

BOSCH SPLINE

Used to drill large-diameter holes and perform heavy-duty chiseling in pipe running, rebar dowelling, concrete repair, channel grooving, and light demolition applications. A side handle and depth rod offer precise control.

Solid Bit Capacity	Core Bit Capacity	No Load RPM	Blows per Minute	Amps	Features	Tool Length	Tool Weight	Mfr. Model	Item No.
Spline Drive Rotary Hammers									
1 ⅝ in	4 ⅛ in	170-340	1,700-2,900 bpm	13.0 A	1-Hand Tool Change, Dial Speed Control, Vibration Control	19 ¼ in	15.1	11265EVS	**4GAE4**
1 9⁄16 in	4 in	170-340	1,500-2,900 bpm	12.0 A	Innovative Service Modules, Integral clutch	19 in	15	RH540S	**30RW20**
Accessories									
Spline Drive to SDS-Plus Adapter								HA1020	**2LDG9**

2 Cutters
4LC67

Milwaukee DEWALT BOSCH SPLINE

Spline Concrete and Masonry Drill Bits

- Shank size: ¾" dia.

Feature a spline shank that prevents bits from slipping in high-torque drilling applications when creating holes in hard, brittle materials such as brick and cinder block for setting fasteners such as concrete anchors and tapping screws. They have fast-spiral flutes that dissipate heat as they grind through the materials.

2 Cutters—Suitable for drilling in concrete that does not contain embedded rebar.

4 Cutters—Can last longer than 2-cutter bits and are less likely to bind up if they hit embedded rebar when drilling into concrete.

Drill Bit Size	Maximum Drilling Depth	Overall Length	Brand	Item No.
2 Cutters				
⅜"	5"	10"	Milwaukee	**45L285**
	8"	13"	DeWalt	**4LC67**
½"	11"	16"	DeWalt	**4LC70**
	11"	16"	Milwaukee	**45L287**
	17"	22"	DeWalt	**4LC71**
	22"	27"	DeWalt	**4LC72**
⅝"	11"	16"	DeWalt	**4LC76**
	11"	16"	Milwaukee	**45L294**
	17"	22"	DeWalt	**4LC77**
¾"	11"	16"	DeWalt	**4LC81**
	11"	16"	Milwaukee	**45L298**
	17"	22"	DeWalt	**4LC82**
⅞"	11"	16"	DeWalt	**4LC84**
1"	11"	16"	DeWalt	**4LC86**
1½"	17"	22"	Milwaukee	**45L313**
4 Cutters				
½"	8"	13"	Bosch	**4XG02**
	16"	21"	Bosch	**4XG03**
	24"	29"	Bosch	**4XG04**
⅝"	8"	13"	Bosch	**4XD82**
	11"	16"	DeWalt	**4LD02**
	17"	22"	DeWalt	**4LD03**
	31"	36"	Milwaukee	**45L318**
¾"	8"	13"	Bosch	**4XD85**
	11"	16"	DeWalt	**4LD06**
	16"	21"	Bosch	**4XD87**
	17"	22"	DeWalt	**4LD07**
	24"	29"	Bosch	**4XD88**
	31"	36"	DeWalt	**5MP51**
⅞"	8"	13"	Bosch	**4XD89**
	11"	16"	DeWalt	**4LD09**
	17"	22"	DeWalt	**4LD10**
1"	8"	13"	Bosch	**4XD91**
	16"	21"	Bosch	**53DM88**
	17"	22"	DeWalt	**4LD12**
	24"	29"	Bosch	**44H245**
1¼"	16"	21"	Bosch	**4XD96**
	31"	36"	DeWalt	**5MP54**
1½"	16"	21"	Bosch	**4XD98**
	17"	22"	DeWalt	**4LD18**
1¾"	17"	22"	DeWalt	**5MP56**
2"	17"	22"	DeWalt	**5MP57**

BOSCH SPLINE

One-Piece Spline Large- & Shallow-Hole Core Bits

Have a spline shank that prevents bits from slipping in high-torque drilling applications when creating large, shallow holes in concrete, masonry, and limestone. They come with a centering pin that stops bits from moving or walking when starting a hole. Bits have wear-resistant carbide-tipped teeth that cut around the perimeter of a hole and create a plug of material that must be removed after drilling is completed.

20PL25

Core Dia.	Maximum Drilling Depth	Overall Length	Shank Diameter	Item No.
1¾"	17 in	22 in	1 ¾ in	**20PL22**
2"	7 in	12 in	2 in	**2LDH4**
	17 in	22 in	2 in	**2LDH5**
2¼"	12 in	22 in	2 ¼ in	**20PL24**
2⅝"	17 in	22 in	2 ⅝ in	**20PL25**
3¼"	7 in	12 in	3 ¼ in	**2LDH8**
	12 in	22 in	3 ¼ in	**34E351**
3 9⁄16"	17 in	22 in	3 9⁄16 in	**2LDJ2**
4"	7 in	12 in	4 in	**2LDJ3**
	17 in	22 in	4 in	**2LDJ4**
5"	7 in	12 in	5 in	**2LDJ5**
	17 in	22 in	5 in	**2LDJ6**
6"	17 in	22 in	6 in	**20PL27**

DEWALT BOSCH SPLINE

Two-Piece Shankless Large- & Shallow-Hole Core Bit Heads & Shanks

4LD58

- Max. drilling depth: 3"
- Core body length: 4"
- Overall length: 4", except 20PL29 is 8"

Dewalt—Bit heads come with a center pin and require a compatible adapter or extension to install them on a compatible rotary hammer drill. They can create large, shallow holes in concrete, masonry, and limestone.

Bosch—Spline shank 20PL29 attaches to compatible two-piece shankless core bit head to create a two-piece core bit. They install into compatible rotary hammer drills.

Core Dia.	Brand	Item No.
1 ½ in	DeWalt	**4LD58**
2 in	DeWalt	**4LD59**
4 in	DeWalt	**4LD63**
5 in	DeWalt	**4LD64**
Spline Shank, 8" Size	Bosch	**20PL29**

Flat Chisel
5MP58

BOSCH DEWALT Milwaukee SPLINE

Chisel Bits for Spline Demolition & Rotary Hammer Tools

Used to break up masonry and concrete in construction and demolition applications.

Head Width	Overall Length	Shank Diameter	Cutting Application	Brand	Item No.
Bull Point Chisel					
¼"	12 in	21⁄32 in	Chiseling Concrete/Block/Brick	Bosch	**1UL86**
Bushing Tool					
1¾"	9 ¼ in	21⁄32 in	Roughing	Bosch	**2LDJ7**
	9 ¾ in	¾ in	Cleaning, Finishing, Roughing	Milwaukee	**45L237**
Clay Spade					
4½"	16 ¾ in	¾ in	Digging	Milwaukee	**45L239**
Flat Chisel					
1"	12 in	¾ in	Roughing	Bosch	**1UL84**
	18 in	¾ in	Roughing	Bosch	**1UL85**
2"	12 in	21⁄32 in	Surface Material Removal	Bosch	**2LDK3**
3"	12 in	21⁄32 in	Surface Material Removal	DeWalt	**5MP58**
	12 in	21⁄32 in	Surface Material Removal	Bosch	**2LDJ8**
Ground Rod Driver					
⅝",-3/4"	10 in	¾ in	Driving Ground Rods	Bosch	**2LDK8**
Pin/Spike Driver					
¾"		21⁄32 in	Driving Ground Rods	DeWalt	**4LD27**
Scaling Chisel					
1½"	12 in	¾ in	Cleaning, Cutting; Asphalt	Milwaukee	**45L232**
2"	12 in	¾ in	Surface Material Removal	Bosch	**48XX77**
3"	12 in	¾ in	Cleaning, Cutting; Asphalt	Milwaukee	**45L234**
Tamper Plate					
5"	5 in	¾ in	Compacting Soil and Gravel	Bosch	**2LDL2**

2LDE4

SDS-Plus and SDS-Max Drill Bit Shank Adapters

BOSCH SDS plus SPLINE SDS max

These shank adaptors connect to compatible masonry and concrete drill bits to allow the bits to be used with rotary hammers that typically accept bits with a different shank style.

Drill Bit Shank Type	Tool Side Shank Type	Adapter Length	Item No.
SDS Plus	Spline	5 in	**2LDG9**
SDS Plus	SDS Max	6 in	**2LDE4**
Spline	SDS Max	6 in	**1UL72**
Threaded	SDS Max	6 in	**2LDE5**

Hex Drive Demolition Hammers

Powerful tools crush and cut grooves in concrete, asphalt, and are also capable of edging, digging gravel roads, compacting, cutting, stripping, and roughing. They are corded and allow long run times for repetitive tasks, maintain full power during operation, and have no batteries to recharge.

2LDA9

24T851

6TXC1

Impact Energy	Blows per Minute	Amps	Features	Includes	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
¾ in Hex Drive									
Chipper									
19.9 ft-lb	975 to 1,950	14.0 A	Service Reminder Light, Steel Bit Holder, Trigger Lock Switch	Carrying Case, Side Handle	27 ½ in	27.8 lb	Milwaukee	5337-21	**4YE52**
1⅛ in Hex Drive									
Chipper									
22 ft-lb	0 to 1,300	15.0 A	Active Vibration Control, Service Reminder Shut-Off System, Multiposition Holder, and Lock-On Switch	Articulating Auxiliary Handle, Carrying Case With Wheels, Cleaning Rag, Grease Tube, Star Point Chisel	30 in	38 lb	Bosch	11335K	**2LDA9**
25.7 ft-lb	730 to 1,450	14.0 A	AVT Anti-vibration Technology	Bull Point Bit, Hex Wrench, Wheeled Carrying Case	32 ½ in	41.9 lb	Makita	HM1317CB	**14F121**
25.8 ft-lb	0 to 1,460	15.0 A	Rubber Coated Handles; Soft Start; Active Vibration Control(R)	Bull Point Chisel, Wheeled Kit Box	30 in	40.5 lb	DeWalt	D25960K	**24T851**
T-Handle									
35 ft-lb	0 to 1,000	15.0 A	115/120V AC/DC Capability, Vibration Control	Basic Hammer Cart, Moil Point Chisel, Narrow Flat Chisel, Brute Breaker Hammer	30 ¾ in	63.2 lb	Bosch	BH2760VCB	**6TXC1**
43 ft-lb	0 to 1,000	15.0 A	115/120V AC/DC Capability, Vibration Control	(2) Narrow Chisels, (2) Star Point chisels, Deluxe Cart	30 ¾ in	63.2 lb	Bosch	BH2770VCD	**21TY30**
46.5 ft-lb	0 to 1,100	15.0 A	Automatic Shutoff System, AVT Anti-vibration Technology	4 Bits, Hex Wrench, Premium Hammer Cart	32 ½ in	71.3 lb	Makita	HM1810X3	**14F123**
38.4 ft-lb	0 to 960	15.0 A	Electronic Soft Start, SHOCKS Active Vibration Control	Hammer Truck, Flat and Pegged Foot Plate for Hammer Truck, Bull Point Chisel, 1 in Cold Chisel, 3 in Wide Chisel	30 ¾ in	68.3 lb	DeWalt	D25980KB	**1TDA5**
Accessories									
Dust Extractor - Demolition; Includes Dust Extractor Base, Mounting Bracket, Mounting Bracket Strap							DeWalt	DWH052	**19M478**

Chisel Bits for Breaker and Demolition Hammers

Asphalt Cutter
45L277

Clay Spade
1UM12

Flat Chisel
2LDR5

- Hex shank

Install into compatible breaker and demolition hammers or rotary hammer drills and are suitable for use in construction or demolition tasks.

Head Width	Overall Length	Shank Diameter	Cutting Application	Brand	Item No.
Asphalt Cutter					
3"	19 in	1 ⅛ in	Asphalt	Bosch	**1UM11**
5"	17 ½ in	1 ⅛ in	Asphalt	Milwaukee	**45L277**
	17 ½ in	1 ¼ in	Asphalt	Bosch	**20PL71**
	19 in	1 ⅛ in	Asphalt	Bosch	**20PL49**
Bull Point Chisel					
13/16"	12 in	¾ in	Breaking, Chipping, Holemaking	Milwaukee	**45L260**
	18 in	¾ in	Breaking, Chipping, Holemaking	Milwaukee	**45L261**
1"	12 in	21/32 in	Chipping	DeWalt	**4LD19**
Bushing Tool					
¾"	12 in	¾ in	Roughing	Bosch	**2LDL8**
1¾"	9 ¾ in	¾ in	Cleaning, Finishing, Roughing	Milwaukee	**45L272**
Clay Spade					
4½"	16 ¾ in	¾ in	Digging	Milwaukee	**45L268**
5⅝"	21 in	1 ⅛ in	Digging	Bosch	**1UM12**
5½"	20 in	1 ⅛ in	Digging, Dirt, Hard Packed Gravel	Milwaukee	**45L278**
Digging Chisel					
3"	22 ½ in	1 ⅛ in	Asphalt	Bosch	**2LDR7**
Flat Chisel					
1"	12 in	21/32 in	Concrete Breaking	DeWalt	**4LD24**
	12 in	¾ in	Breaking, Chipping	Milwaukee	**45L262**
	12 in	¾ in	Chiseling Concrete/Block/Brick	Bosch	**2LDN2**
	18 in	21/32 in	Surface Material Removal	DeWalt	**4LD73**
	18 in	¾ in	Breaking, Chipping	Milwaukee	**45L263**
	18 in	¾ in	Chiseling Concrete/Block/Brick	Bosch	**2LDN3**
1⅛"	20 in	21/32 in	Surface Material Removal	DeWalt	**4LD81**
1½"	16 in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**2LDT3**
2"	12 in	21/32 in	Surface Material Removal	DeWalt	**4LD23**
	12 in	¾ in	Tile Removal	Bosch	**2LDL4**
3"	12 in	21/32 in	Surface Material Removal	DeWalt	**4LD71**
	12 in	¾ in	Surface Material Removal	Bosch	**2LDL5**
	20 in	21/32 in	Chipping	DeWalt	**4LD80**
	20 ½ in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**2LDR5**
5"	17 in	21/32 in	Asphalt	DeWalt	**4LD82**
Ground Rod Driver					
⅝",-3/4"	10 in	¾ in	Driving Ground Rods	Bosch	**2LDN6**
1"	15 ½ in	1 ⅛ in	Driving Ground Rods	Bosch	**1UM13**
1½"	9 ¾ in	¾ in	Driving	Milwaukee	**45L271**
3"	15 ½ in	1 ⅛ in	Driving Ground Rods	Milwaukee	**45L280**
Moil Point					
¼"	18 in	1 ¼ in	Chiseling Concrete/Block/Brick	Bosch	**20PL66**
	20 in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**1UL99**
1⅛"	16 in	1 ⅛ in	Breaking Concrete, Chipping, Holemaking	Milwaukee	**56KY64**
	20 in	1 ⅛ in	Concrete Chipping and Breaking	Milwaukee	**45L274**

Head Width	Overall Length	Shank Diameter	Cutting Application	Brand	Item No.
Narrow Chisel					
¼"	20 in	1 ⅛ in	Holemaking	Bosch	**1UM10**
1"	18 in	1 in	Chiseling Concrete/Block/Brick	Bosch	**20PL61**
1¾"	16 in	1 ⅛ in	Concrete Chipping and Breaking	Milwaukee	**56KY65**
	20 ½ in	1 ⅛ in	Concrete Chipping and Breaking	Milwaukee	**45L275**
Pin/Spike Driver					
⅝"	—	21/32 in	Driving Ground Rods	DeWalt	**4LD77**
1"	1 in	21/32 in	Driving Ground Rods	DeWalt	**4LD83**
	5 ½ in	1 ⅛ in	Driving Stakes	Bosch	**2LDR4**
1 1/64"	14 ½ in	1 ⅛ in	Driving Stakes	Milwaukee	**45L279**
1¾"	14 ½ in	1 ⅛ in	Driving Anchoring Pins	Bosch	**2LDR9**
3½"	5 ½ in	—	Driving Stakes	Milwaukee	**45L284**
Pointed Spade					
¼"	12 in	¾ in	Holemaking	Bosch	**2LDL9**
	14 in	1 ¼ in	Chiseling Concrete/Block/Brick	Bosch	**20PL67**
	18 in	¾ in	Holemaking	Bosch	**2LDN1**
	18 in	1 in	Chiseling Concrete/Block/Brick	Bosch	**20PL59**
1"	18 in	21/32 in	Chipping	DeWalt	**4LD70**
	20 in	21/32 in	Chipping	DeWalt	**4LD79**
1¾"	9 ¼ in	¾ in	Roughing	Bosch	**2LDN4**
	10 in	21/32 in	Roughing	DeWalt	**5MP59**
Rivet Hammer Chisel					
¾"	15 ½ in	1 ⅛ in	Driving Stakes	Bosch	**2LDT1**
Scaling Chisel					
1½"	12 in	¾ in	Cleaning, Cutting; Asphalt	Milwaukee	**45L264**
2"	12 in	¾ in	Cleaning, Cutting; Asphalt	Milwaukee	**45L267**
3"	12 in	¾ in	Cleaning, Cutting; Asphalt	Milwaukee	**45L266**
	15 ½ in	21/32 in	Chipping	DeWalt	**423K29**
	20 ½ in	1 ⅛ in	Concrete Cleaning, Rust, Scale, Asphalt, Troughs	Milwaukee	**45L276**
Scraping Chisel					
2"	12 in	¾ in	Scraping	Milwaukee	**45L265**
Spade Chisel					
4½"	17 in	¾ in	Garden, Landscaping	Bosch	**2LDL6**
5"	15 in	¾ in	Asphalt	Bosch	**2LDL7**
5½"	5 ½ in	21/32 in	Digging	DeWalt	**4LD84**
Standard Chisel					
1"	18 in	1 ¼ in	Chiseling Concrete/Block/Brick	Bosch	**20PL68**
3"	20 in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**48XX82**
	20 ½ in	1 ¼ in	Chiseling Concrete/Block/Brick	Bosch	**20PL70**
Star Point					
¼"	16 in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**20PL51**
Super Cut Chisel					
1¾"	20 ½ in	1 ⅛ in	Chiseling Concrete/Block/Brick	Bosch	**2LDR6**
Tamper Plate					
5"	5 in	¾ in	Tamping	Milwaukee	**45L269**
6"	6 in	¾ in	Compacts Dirt, Tamps Asphalt	Milwaukee	**45L281**
	6 in	1 ⅛ in	Compacting Soil and Gravel	Bosch	**2LDR2**
8"	8 in	¾ in	Compacts Dirt, Tamps Asphalt	Milwaukee	**45L282**
	8 in	1 ⅛ in	Compacting Soil and Gravel	Bosch	**2LDR3**

Self-Sharpening Chisel Bits for Breaker and Demolition Hammers

- Shank size: 21/32"" dia.

Bits feature a tip design that allows them to wear evenly and retain their sharpness longer compared to standard chisel bits when breaking up concrete and masonry in construction and demolition applications.

Head Width	Overall Length	Shank Diameter	Cutting Application	Item No.
Bull Point Chisel				
1"	15 ¾ in	21/32 in	Chipping	**423K27**
Flat Chisel				
1"	15 ¾ in	21/32 in	Surface Material Removal	**423K28**

Flat
423K28

Scan. Order. Done.
Details on page A1.

MAX
Rebar Tying
489P16

BN Products
Rebar Cutter
56HE73

Cordless Rebar Tools

Minimum Rebar Size Combination	Maximum Rebar Size Combination	Compatible Wire Gauge	Tying Speed	Maximum Ties per Coil	Cordless Tool Kit Contents	Battery Capacity	Item No.
BN Products USA Rebar Tying Tool							
18V DC							
No. 3 x No. 4	No. 3 x No. 4	21 ga	Less Than 1 sec/Tie	220	(1) Bare Tool, (1) Charger, (2) Batteries	4.0 Ah	**56HE63**
No. 6 x No. 6	No. 6 x No. 6	21 ga	Less Than 1 sec/Tie	128	(1) Bare Tool, (1) Charger, (2) Batteries	4.0 Ah	**56HE64**
No. 8 x No. 8	No. 8 x No. 8	21 ga	Less Than 1 sec/Tie	120	(1) Bare Tool, (1) Charger, (2) Batteries	4.0 Ah	**56HE65**
Makita Rebar Tying Tool							
18V DC							
No. 3 x No. 3	No. 5 x No. 5	21 ga	0.8 sec/Tie	120	(1) Bare Tool, (1) Charger, (2) Batteries	5.0 Ah	**493Y54**
No. 3 x No. 3	No. 5 x No. 5	21 ga	0.8 sec/Tie	120	(1) Bare Tool	5.0 Ah	**493Y55**
MAX Rebar Tying Tool							
14.4V DC							
Mesh x Mesh	No. 3 x No. 3	21 ga	Less Than 1 sec/Tie	210	(1) Bare Tool, (1) Battery, (1) Charger	3.9 Ah	**11A328**
No. 3 x No. 3	No. 5 x No. 6	21 ga	Less Than 1 sec/Tie	120	(1) Bare Tool, (1) Battery, (1) Charger	3.9 Ah	**11A327**
No. 3 x No. 3	No. 6 x No. 6	19 ga	0.5 sec/Tie	260	(1) Bare Tool, (1) Battery, (1) Charger	5.0 Ah	**787EJ1**
No. 3 x No. 3	No. 7 x No. 7	19 ga	Less Than 0.8 sec/Tie	265	(1) Bare Tool, (1) Battery, (1) Charger	3.9 Ah	**489P16**
No. 5 x No. 5	No. 7 x No. 8	21 ga	Less Than 1 sec/Tie	90	(1) Bare Tool, (1) Battery	3.9 Ah	**34G807**
No. 5 x No. 5	No. 9 x No. 10	19 ga	0.5 sec/Tie	205	(1) Bare Tool, (1) Battery, (1) Charger	5.0 Ah	**787EJ2**

Maximum Rebar Size Cutting Capacity	Maximum Cutting Depth	Blade Dia.	Cutting Head Rotation Angle	Brushless Motor	Cordless Tool Kit Contents	Item No.
BN PRODUCTS USA Rebar Cutter						
24V DC, Sawing						
#6	⅞ in	4 ⅜ in	0 °	No	(1) Bare Tool, (1) Charger, (2) Batteries	**56HE73**
#8	1 ⅛ in	5 in	0 °	No	(1) Bare Tool, (1) Charger, (2) Batteries	**56HE74**
MAKITA Rebar Cutter						
18V DC, Sawing						
#8	1 in	4 5⁄16 in	0 °	Yes	(1) Bare Tool, (1) Battery	**55FD69**
#8	1 in	4 5⁄16 in	0 °	Yes	(1) Bare Tool	**55FD70**
18V DC, Shearing						
#5	⅝ in	—	360 °	Yes	(1) Bare Tool, (1) Battery	**349JG4**
#5	⅝ in	—	360 °	Yes	(1) Bare Tool	**349JG5**
#6	¾ in	—	360 °	No	(1) Bare Tool, (1) Battery, (1) Charger	**53KJ81**
MAX Rebar Cutter						
25V DC, Shearing						
#5	⅝ in	—	360 °	Yes	(1) Bare Tool, (1) Battery, (1) Charger	**19TU04**

Description	Material	Brand	Item No.
Accessories			
Rebar Tie Wire, 16 ga., 82 ft Coil	Steel	Max	**11A332**
Rebar Tie Wire, 16 ga., 82 ft Coil	Galvanized Steel	Max	**11A333**
Rebar Tie Wire, 16 ga., 82 ft Coil	Polycoated Steel	Max	**11A334**
Rebar Tie Wire, 21 ga., 312 ft Coil	Steel	Max	**11A329**
Rebar Tie Wire, 21 ga., 312 ft Coil	Galvanized Steel	Max	**11A330**
Rebar Tie Wire, 21 ga., 312 ft Coil	Polycoated Steel	Max	**11A331**
Adjustable Extension Arm For Use With Mfr. No. RB650, Mfr. No. RB650A, Mfr. No. RB655	—	Max	**11A339**
Adjustable Extension Arm For Use With Mfr. No. 45GF47	—	Bn Products Usa	**45GF53**
Wire Guide Nylon Brush For Use With Cordless Rebar Tying Tool	—	Makita	**61HJ23**
Adjustable Extension Handle For Use With Makita 18V LXT(R) Rebar Tying Tool Model XRT01	—	Makita	**783X81**

Handheld
Core Drill
6PEV2

Core Drill Motor
38D739

Core Drill Rig
38D746

Corded Core Drill Rigs and Motors

Core drill rigs have a core drill motor and a matching stand to create deep, large-diameter holes in concrete and masonry to run plumbing lines, HVAC ducts, electrical wires, and telecom cables. They grind out material around the edge of a hole and leave the core intact for removal.

HANDHELD CORE DRILLS

Hand grips allow more control to drill small holes for ventilation ducts, pipes, and other light applications. They can mount to a compatible stand that allows for larger, more uniform holes and reduce user fatigue.

CORE DRILL RIGS

Include a core drill motor and a matching stand that provides a stable base to hold the drill steady and create larger, more consistent holes than handheld core drills. 38D751 comes only with a matching stand and accepts a compatible motor.

CORE DRILL MOTORS

Mount to a compatible stand to form a coring rig where the stand holds the drill motor in a fixed position to create larger, more uniform holes than handheld core drills.

CORE DRILL STANDS

Provide a stable base that holds compatible core drills in a fixed position to improve control and create uniform holes. Stands pair up with core drill motors or handheld core drills to form coring rigs.

CORING BITS

Diamond-tipped bits have a hollow center surrounded by multiple cutting edges. They require less power and force than solid drill bits when making large holes in materials.

Compatible with Grainger Part Number	Column Height	Base Length	Base Width	Item No.
Milwaukee Core Drill Stand				
Mount Type Leveling Screws				
1Y044	43 ½ in	9 ½ in	14 ¼ in	**38D745**
1Y044	43 ½ in	14 ½ in	10 ¼ in	**38D747**
1Y044	47 in	10 ½ in	13 in	**38D750**
Husqvarna Core Drill Stand				
Mount Type Vacuum				
2LEA5, 3RDN7, 40ZU86	31 ½ in	25 in	10 ½ in	**2ETR3**
3RDN8, 40ZU86, 6PEV2	39 in	16 in	10 ½ in	**18G515**

Horsepower	Coring Capacity in Concrete	Current	Column Height	Angle-to-Surface	Tool Weight	Maximum Spindle Speed	Includes	Brand	Mfr. Model	Item No.
Handheld Core Drill										
120V AC										
2.5 hp	6 in	13 A	—	90°	15.4 lb	2,900 RPM	—	Husqvarna	DM220	**6PEV2**
2.5 hp	6 in	15 A	—	90°	15.4 lb	2,900 RPM	Side Handle, Water Kit, ⅝"-11 to 1 ¼"-7 Adapter	Husqvarna	DM230	**2LEA5**
Coring Rig without Motor										
—										
4.8 hp	1 ¼ in	20 A	43 ½ in	90°	111.5 lb	500 RPM	4030 Large Base, Meter Box, Vac-U-Rig Kit	Milwaukee	4136	**38D751**
Core Drill Rig										
120/240V AC										
2.3 hp	6 in	15 A	31 in	60°	51 lb	800 RPM	Vacuum Plate	Husqvarna	DMS180	**3RDN8**
120V AC										
2.9 hp	10 in	10 A	39 in	60°	51 lb	890 RPM	Vacuum Plate	Husqvarna	DMS240	**3RDN7**
4.8 hp	10 in	20 A	43 ½ in	90°	137.8 lb	900 RPM	4096 Diamond Coring Rig Motor, Large Base Stand, Meter Box, Vac-U-Rig Kit	Milwaukee	4120-22	**38D748**
4.8 hp	10 in	20 A	43 ½ in	90°	111.5 lb	900 RPM	4096 Diamond Coring Rig Motor, Meter Box, Small Base Stand, Vac-U-Rig Kit	Milwaukee	4115-22	**38D746**
Core Drill Motors										
120V AC										
2 ½ hp	8 in	15 A	—	—	26 lb	750 RPM	(6) Shear Pins, Open End Wrench, Water Control Valve, Water Hose Adapter	Milwaukee	4090	**38D741**
4 ⅘ hp	7 in	20 A	—	—	24 lb	600 RPM	(6) Shear Pins, Open End Wrench, Water Control Valve, Water Hose Adapter	Milwaukee	4079	**38D740**
4 ⅘ hp	10 in	20 A	—	—	24 lb	900 RPM	Open End Wrench	Milwaukee	4096	**1Y044**
4 ⅘ hp	10 in	20 A	—	—	24 lb	900 RPM	(6) Shear Pins, Open End Wrench, Water Control Valve, Water Hose Adapter	Milwaukee	4094	**38D742**
4 ⅘ hp	14 in	20 A	—	—	24 lb	1,200 RPM	Open End Wrench, Water Control Valve, Water Hose Adapter	Milwaukee	4005	**38D739**
4 ⅘ hp	14 in	20 A	—	—	24 lb	600 RPM	Open End Wrench, Water Control Valve, Water Hose Adapter	Milwaukee	4004-20	**3F859**

CONTINUED

CONTINUED

Corded Core Drill Rigs and Motors

Core Dia.	Maximum Drilling Depth	Overall Length	Primary Material Application	Shank Thread Size	Item No.
Diamond-Tipped Core Bits for Dry Coring					
Diamond Vantage					
2"	10 in	10 in	Concrete	⅝"-11	**21UN51**
2½"	10 in	10 in	Concrete	⅝"-11	**21UN53**
3"	10 in	10 in	Cinder Block, Brick, Concrete, Masonry	⅝"-11	**21UN54**
4"	10 in	10 in	Concrete	⅝"-11	**21UN56**
Husqvarna					
2½"	10 in	10 in	Cinder Block, Brick	1 ¼"-7	**483U56**
3"	10 in	10 in	Cinder Block, Brick	1 ¼"-7	**483U57**
Milwaukee					
2"	10 in	10 in	Cinder Block, Brick, Masonry	⅝"-11	**45KN34**
2"	13 in	15 ¾ in	Cinder Block, Brick, Concrete	1 ¼"-7	**56FK65**
3"	10 in	10 in	Cinder Block, Brick, Masonry	⅝"-11	**45KN36**
3"	13 in	15 ¾ in	Cinder Block, Brick, Concrete	1 ¼"-7	**56FK67**
4"	10 in	10 in	Cinder Block, Brick, Masonry	⅝"-11	**45KN38**
4"	13 in	15 ¾ in	Cinder Block, Brick, Concrete	1 ¼"-7	**56FK69**
Diamond-Tipped Core Bits for Wet Coring					
Diamond Vantage					
1⅛"	14 in	14 in	Concrete	⅝"-11	**21UN18**
1¼"	14 in	14 in	Concrete	1 ¼"-7	**21UN20**
2½"	14 in	14 in	Concrete	1 ¼"-7	**21UN26**
3"	14 in	14 in	Concrete	1 ¼"-7	**21UN28**
5"	14 in	14 in	Concrete	1 ¼"-7	**21UN34**
6"	14 in	14 in	Concrete	1 ¼"-7	**21UN36**
6¼"	14 in	14 in	Concrete	1 ¼"-7	**21UN37**
8"	14 in	14 in	Concrete	1 ¼"-7	**21UN40**

Core Dia.	Maximum Drilling Depth	Overall Length	Primary Material Application	Shank Thread Size	Item No.
Husqvarna					
1½"	14 in	14 in	Concrete, Brick	⅝"-11	**2LDX6**
2"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDX7**
3"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDX9**
4"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDY2**
5"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDY4**
6"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDY6**
8"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDY7**
10"	14 in	14 in	Concrete, Brick	1 ¼"-7	**2LDY9**
Milwaukee					
⅞"	15 in	15 in	Concrete, Steel	⅝"-11	**45KN73**
2"	15 in	15 in	Concrete, Steel	1 ¼"-7	**45KN77**
2"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN63**
2½"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN64**
3"	15 in	15 in	Concrete, Steel	1 ¼"-7	**45KN80**
3"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN65**
3"	16 in	18 45⁄64 in	Concrete, Rebar	1 ¼"-7	**56FK79**
4"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN67**
4"	16 in	18 45⁄64 in	Concrete, Rebar	1 ¼"-7	**56FK81**
5"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN70**
6"	15 in	15 in	Concrete, Rebar, Mesh	1 ¼"-7	**45KN71**
6"	15 in	15 in	Concrete	1 ¼"-7	**45KN51**
8"	15 in	15 in	Concrete, Steel	1 ¼"-7	**45KN88**
10"	15 in	15 in	Concrete, Steel	1 ¼"-7	**45KN89**

Tile Saws

Water lubricates the blade and tile during cutting to reduce airborne dust and particles.

QEP
48Z886

DeWalt
4YY94

Blade Dia.	Max. Cutting Depth	Max. Cut Length	Arbor Size	Max. Blade Speed	Voltage	Current	Includes	Brand	Item No.
7 in	1 ¼ in	—	⅝ in	3,600 RPM	120V AC	4.8 A	Blade, Manual, Miter Guide, Rip Guide	QEP	**48Z886**
7 in	2 in	—	—	—	120	7.4 A	Rip Guide, Water Pump	MK Diamond Products	**55EC68**
10 in	3 in	20 in	⅝ in	3,450	120	12.6 A	Rip Guide, Water Pump	MK Diamond Products	**55EC69**
10 in	3 ⅛ in	28 in	⅝ in	4,200 RPM	120V AC	15 A	Removable Thermoplastic Water Reservoir, 10 in Diamond Blade, Water Pump Assembly, 45° and 90° Rip Guides	DeWalt	**4YY94**
10 in	3 ½ in	24 in	—	—	120	15 A	Protractor, Rip Guide, Submersible Water Pump	MK Diamond Products	**55EC70**

Masonry Saws

Masonry saws use a diamond saw blade to wet or dry cut stone, brick, cinder block, and concrete. Wet cutting reduces airborne contaminants and keeps the blade cooler, extending blade life. Dry cutting requires a dust collection system to keep dust to a minimum.

Handheld
6FKG8

Benchtop
45RM23

Blade Dia.	Cutting Type	Max. Cutting Depth	Miter Angle Range	Arbor Size	Voltage	Current	Horsepower	Includes	Brand	Item No.
Handheld										
4 ⅜ in	Dry	1 ⅜ in	—	¾ in	120V AC	15 A	—	Socket Wrench, Spanner Wrench, (2) 4 in Diamond Blade Turbo	Makita	**45PC96**
4 ⅜ in	Wet/Dry	3 ⅛ in	—	20 mm	120V AC	10.8 A	—	12 ft Water Line and Regulator, Diamond Blade, (2) Wrenches for Blade Change, Instruction Manual	DeWalt	**6FKG8**
5 in	Wet	1 ½ in	—	⅞ in	120V AC	12 A	—	Side Handle	Flex North America	**53GK18**
14 in	Dry	9 ¾ in	—	1 in	120V AC	15 A	—	Wrench	Makita	**14G991**
14 in	Dry	9 ¾ in	—	1 in	120V AC	15 A	—	14 in Diamond Blade Sgmt Gen/Purp	Makita	**45PC97**
Benchtop										
14 in	Wet	5 in	45°	1 in	115/230V AC	14.0 A	1.5	Blade	Husqvarna	**45RM23**
14 in	Wet	5 in	45°	1 in	115/230V AC	14.0 A	2	Blade	Husqvarna	**45RM24**
14 in	Wet	5 in	45°	1 in	115V AC	14.0 A	1.5	Blade	Husqvarna	**45RM22**
14 in	Wet	5 in	45°	1 in	230V AC	14.0 A	3	Blade	Husqvarna	**45RM25**

Flooring Saw

- 120VAC, 7A
- 1 HP
- 11,000 RPM

Circular saw blades to make straight, rip, and angled cuts in wood and laminate flooring. Adjustable stops to cut miters.

Blade Dia.	Cutting Type	Max. Cutting Depth	Miter Angle Range	Arbor Size	Item No.
4 ⅜ in	Dry	¾ in	0°22.5°45°	¾ in	**19M485**

Cordless Handheld Concrete Saws

Bare Tool
453U31

- Wet/Dry
- 9" Blade Dia.
- 3 ¼" Max. cutting depth
- ⅞" Arbor

Cordless handheld concrete saws are battery-operated tools used to cut masonry, stone, and reinforced concrete. They can be used vertically, making them a good choice for demolition and cutting through walls and automobile and infrastructure wreckage.

Battery Series	Cordless Tool Kit Contents	Item No.
60V MAX FLEXVOLT	(1) Bare Tool	**453U31**
	(1) Bare Tool, (1) Charger, (2) Batteries	**453U30**

Gas-Powered Cut & Break Saw

Husqvarna

- 9" Blade Dia.
- Wet cutting

Cut and break saws have two parallel blades to cut grooves and recesses in concrete. Workers can cut in stages to create slots in thick material or cut window openings or recesses in concrete or brick walls. Gas-powered saws create fumes and are used outdoors in well-ventilated areas.

Max. Cutting Depth	Max. Blade Speed	Horsepower	Item No.
16 in	4,875 RPM	5	2ETP9

Included Chain: Force 4 45GG35

Gas-Powered Concrete Chain Saws

ICS

- Two-stroke, air-cooled
- Gas/Oil (50:1 (2%))

For use outdoors or in well-ventilated areas to make cuts in hard, abrasive materials such as masonry, cured concrete, and rock.

Bar Length	Horsepower	RPM	Engine Displacement	Item No.
Included Chain: Force 3 for Cutting Concrete				
12 in	5	11,500 +/- 500 RPM	77 cc	45GG32
12 in	6.4	9300 +/- 150 RPM	94 cc	45GG28
14 in	5	11,500 +/- 500 RPM	77 cc	45GG33
14 in	6.4	9300 +/- 150 RPM	94 cc	45GG29
16 in	6.4	9300 +/- 150 RPM	94 cc	45GG30
Included Chain: Force 4 for Cutting Concrete or Ductile Pipe				
12 in	6.4	9300 +/- 150 RPM	94 cc	45GG35
16 in	6.4	9300 +/- 150 RPM	94 cc	45GG36
Included Chain: PowerGrit for Cutting Ductile Pipe and Masonry				
16 in	6.4	9300 +/- 150 RPM	94 cc	45GG37
Included Chain: None				
12 in	6.4	9300 +/- 150 RPM	94 cc	45GG27
14 in	5	11,500 +/- 500 RPM	77 cc	45GG31
16 in	6.4	9300 +/- 150 RPM	94 cc	45GG34

For Bar Length	Gauge	Primary Material Application	Item No.
Replacement Chain			
12 in	0.125 in	Medium Concrete, Natural Stone	5YGT5
14 in	0.125 in	Hard Concrete	5YGT9
14 in	0.125 in	Medium Concrete, Natural Stone	5YGT8
16 in	0.125 in	Hard Concrete	14H223
16 in	0.125 in	Medium Concrete, Natural Stone	14H224
16 in	0.444 in	Hard Concrete	26KR16

Corded Handheld Concrete Saws

Husqvarna SKILSAW

Wet 462R82

- 120VAC, 15A

Corded handheld concrete saws plug into an outlet to cut masonry, stone, and reinforced concrete. They can be used indoors and outdoors. They can also be used at any angle, making them a good choice for demolition and cutting through concrete walls.

Blade Dia.	Max. Cutting Depth	Arbor Size	Brand	Item No.
Wet				
9 in	16 in	1 in	Husqvarna	462R82
Wet/Dry				
7 in	2 in	⅞ in	Skilsaw	407M17
14 in	5 in	1 in	Husqvarna	462R81

Gas-Powered Rescue Saws

Husqvarna 3EHD1

VentMaster FIRE RESCUE SAWS Husqvarna

- 14" Blade Dia.
- Wet/Dry

Rescue saws are used by first responders to cut through infrastructure and automobile wreckage. Gas-powered saws create fumes and are used outdoors in well-ventilated areas.

Max. Cutting Depth	Max. Blade Speed	Horsepower	Item No.
Ventmaster			
4 ¾ in	4,650 RPM	5	8MWE8
4 ¾ in	4,725 RPM	6.4	6UET5
4 ¾ in	5,100 RPM	7.8	6UET6
Husqvarna			
5 in	5,400 RPM	6.5	3EHD1

Husqvarna 462R79

Husqvarna makita

Gas-Powered Power Cutters

Gas-powered power cutters are handheld tools used to make vertical and horizontal cuts in concrete and masonry. They have an internal-combustion engine to provide more consistent power and longer run times than battery-operated saws. Must be used outdoors in well-ventilated areas. Wet cutting applies water to the cut to reduce airborne particles and lubricate the cut.

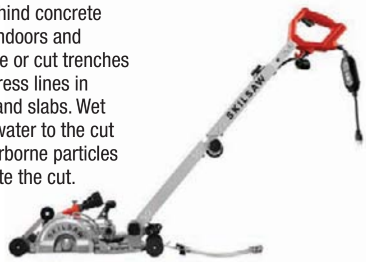
Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Horsepower	Fuel Tank Capacity	Engine Displacement	Features	Item No.
Husqvarna								
9 in	Wet	16 in	4,875 RPM	5	24.0 oz	71 cc	Active Air Filtration(TM), DuraStarter(TM), EasyStart, SmartCarb(TM)	2ETP9
14 in	Wet/Dry	5 in	5,400 RPM	5	30.4 oz	74 cc	5% Fuel Savings, DEX Dust Suppression System, Digital Ignition System, Semi-Automatic Belt Tensioning, Smart Tension, X-Torq(R) Engine Technology	462R79
16 in	Dry	6 in	4,700 RPM	7.9	38.4 oz	119 cc	Active Air Filtration Efficiently Cleans Air, Double-Attachment Mountings to Allow Cutting From Both Directions, Easy-Adjust Blade Guard, Easy-Start, Replaceable Arbor Bushing, Smart Carb Technology	54GY86
Makita								
14 in	Dry	5 ⅛ in	9,850 RPM	4.4	23.6 oz	61 cc	—	36HZ90
14 in	Wet/Dry	4 ¹³⁄₁₆ in	9,100 RPM	4.1	37.0 oz	76 cc	Lower Fuel Consumption, Lower Noise, No Oil Mixing, Reduced Exhaust and Intake Carbon Build-Up, Smoother Idle, Three Ring Piston for Engine Durability	19TG42
14 in	Wet/Dry	4 ¹³⁄₁₆ in	9,350 RPM	5.1	37.0 oz	73 cc	Five Stage Foam Paper Nylon System With Advanced Directional Air Flow	18C927
14 in	Wet/Dry	4 ¹³⁄₁₆ in	9,350 RPM	5.1	37.0 oz	73 cc	Diamond Blade, Five Stage Filtration, Flush Mount Blade	45L119
16 in	Wet/Dry	5 ¾ in	9,350 RPM	5.6	37.0 oz	81 cc	50 To 1 Fuel Mixture, Five Stage Foam Paper Nylon System With Advanced Directional Air Flow	2KUX4

Corded Walk-Behind Concrete Saw

SKILSAW

- 7" Blade Dia.
- Wet/Dry Cutting

Corded walk-behind concrete saws are used indoors and outdoors to score or cut trenches and inlay and stress lines in concrete floors and slabs. Wet cutting applies water to the cut line to reduce airborne particles and help lubricate the cut.



Max. Cutting Depth	Arbor Size	Voltage	Current	Features	Item No.
2 in	⅞ in	120V AC	15 A	Collapsible Folding Capability, Worm Drive Design, Wrench Stored On Tool	462P51

Diesel 55FD93

Gas-Powered Walk-Behind Concrete Saws

Husqvarna

Gas-powered walk-behind concrete saws are used outdoors to cut trenches and inlay and stress lines in concrete sidewalks, driveways, and slabs. They are slightly more powerful than corded walk-behind concrete saws and can be used where access to an electrical power source is limited or unavailable. Because they produce fumes, they must be used outdoors in well-ventilated areas.

Blade Dia.	Cutting Type	Max. Cutting Depth	Max. Blade Speed	Front Wheel Size	Start Type	Engine Brand	Horsepower	Item No.
4-Cycle Gasoline								
6 ½ in	Dry	1 ½ in	6,000 RPM	—	Pull-Cord (Recoil)	Robin EX13	5.5	2ETR4
14 in	Wet	4 ⅝ in	3,500 RPM	—	Pull-Cord (Recoil)	Robin EX27X	8.5	54XM25
20 in	Wet	7 ⅝ in	2,110 RPM	—	Electric	Honda	20.8	2LDU2
20 in	Wet	7 ⅝ in	2,620 RPM	—	Pull-Cord (Recoil)	Honda	11	52CM03
20 in	Wet	7 ⅝ in	2,650 RPM	—	Electric	Kohler	37	49EK28
20 in	Wet	7 ⅝ in	2,800 RPM	—	Pull-Cord (Recoil)	Honda	11	2LDU1
24 in	Wet	9 ⅝ in	2,110 RPM	—	Electric	Honda	20.8	52CM04
26 in	Wet	10 ½ in	1,860 RPM	—	Electric	Kohler	37	49EK29
Diesel								
30 in	Wet	12 ½ in	1,120 RPM	8 in x 3 in	Electric	Deutz	7.5	55FD90
30 in	Wet	12 ½ in	1,120 RPM	6 in x 2 in	Electric	Yanmar	7.5	55FD94
36 in	Wet	15 in	1,008 RPM	8 in x 3 in	Electric	Deutz	7.5	55FD91
36 in	Wet	15 in	1,008 RPM	6 in x 2 in	Electric	Yanmar	7.5	55FD93

BOSCH Makita

Corded Concrete Grinders

- 5" Wheel dia.

Note: For Diamond Cup Grinding Wheels and Tuck Point Blades, go to Grainger.com.

Bosch
36WH94

Makita
46AD54

Application	Current	Maximum Tool Speed	Switch Type	Safety Features	Kit Contents	Tool Length	Item No.
BOSCH							
Grinding and Milling	12.5 A	9,300 RPM	Slide	Lock-Off Switch	(1) Abrasive Wheel, (1) Bare Tool	13 ¾ in	**36WH94**
Cutting and Tuckpointing	13 A	9300 RPM	Slide	—	(1) Backing Flange, (1) Carrying Bag, (1) Lock Nut, (1) Sandwich Blade, (1) Side Handle, (1) Spanner Wrench, (1) Tuckpointing Guard		**794C63**
MAKITA							
Grinding and Milling	10 A	10,000 RPM	Trigger	Anti-Restart	(1) Abrasive Wheel, (1) Bare Tool	7 ⅛ in	**14F174**
Grinding and Milling	10 A	10,000 RPM	Trigger	Anti-Restart	(1) Abrasive Wheel, (1) Bare Tool	18 ¹³⁄₁₆ in	**14F175**
Cutting and Tuckpointing	10 A	11,000 RPM	Slide	—	(1) Bare Tool	11 ⅞ in	**46AD54**

Concrete Floor Grinders and Polishers

Husqvarna

FLOOR GRINDERS

PG 280 and PG 280 SF

Provide efficient grinding due to high rpm levels, dust guard, and vacuum port. Include Redi Lock.

PG 540

Planetary design, adjustable grinding pressure, hour and RPM meter, protected electronics that are sealed to last.

PG 680 and PG 820

Dual-drive Technology allows for independent control of speed and direction on both planetary and satellite discs. Triple-headed grinders provide more downward pressure and power. Gear-driven planetary head and premium-quality belt.

DUST EXTRACTORS AND COLLECTORS

Extractors are for large-scale projects that demand substantial dust extraction. Tested and certified HEPA class H13 filters; required for silica dust are standard.

AIR SCRUBBERS

Air scrubbers can be used to supplement other dust suppression equipment. Can be used as negative air machine. Combination pre-filter and HEPA filter to ensure 99.97% efficiency at 0.3 microns.

SLURRY VACUUMS

Handles tough jobs with liquids such as concrete slurry, oils, and machining coolants. Integral strainer screens gravel to protect pump. For use with flat saws, core drills, power cutters, masonry hand tile saws.

Floor Grinder
787UE5

Dust Collector
33UD63

Air Scrubber
54FH73

Slurry Vacuum
54FH67

Number of Grinding Discs	Grinding Disc Diameter	Grinding Width	Horsepower	Mfr. Model	Item No.
Floor Grinders					
Single-Disc					
1	11 in	11 in	3 hp	PG280	**18G402**
1	11 in	11 in	2 hp	PG 280 SF	**18G401**
Planetary					
3	9 in	19.7 in	5 ½ hp	PG 540 240V-1	**787UE5**
Planetary w/Dual Drive					
3	9 in	27 in	17 hp	PG 680	**18G382**
3	10 ½ in	32 in	17 hp	PG 820	**18G371**
3	10 ½ in	31.5 in	22 hp	PG 830 RC 480V	**787UF3**

Max. Flow (cfm)	Fabric Area	Min. Air Flow (cfm)	Motor HP	Motor Voltage	Mfr. Model	Item No.
Dust Extractor						
285	27 sq ft	285	3.2 hp	120	S36120V	**54FH70**
354	54 sq ft	354	10.1 hp	230	T7500	**54FH64**
354	54 sq ft	354	11.5 hp	460	T8600	**54FH62**

Amps AC	Filter Bag	Max. Flow (cfm)	Phase	Voltage	Mfr. Model	Item No.
Dust Collector						
16 A	HEPA	406	Three-Phase	480 V AC	DC 6000	**33UD63**

No. of Speeds	Air Flow (cfm)	MERV	Filter Rating (microns)	Duct H (in.)	Duct W (in.)	Mfr. Model	Item No.
Air Scrubbers							
2	600	5	0.3 micron	8 in	8 in	A600	**54FH74**
2	600/1200	5	0.3 micron	10 in	10 in	A2000	**54FH73**

Peak HP	Vacuum Capacity	Air Flow	Amps	Wet Capacity	Dry Capacity	Mfr. Model	Item No.
Slurry Vacuums							
2	15 gal	118 cfm	10	70 gal.	15 gal.	W70P	**54FH67**

Demolition Diamond Saw Blades

Husqvarna

Demolition blades are built to cut aggressively through mixed masonry or masonry with embedded rebar, such as brick or cinderblock walls.

Segmented
2LDU8

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Arbor Shape	For Use On Concrete Type	Max. Blade Speed	Item No.
Segmented								
Grade: Good								
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Masonry	Round	Reinforced	5,460 RPM	**2LDU8**
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Reinforced	5,460 RPM	**53DT43**
16 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete	Round	Reinforced	4,725 RPM	**53DT50**
Grade: Better								
9 ³⁄₆₄ in	22 ³⁄₁₆ in	Dry	Power Cutter	Concrete	Round	Brick, Reinforced, Tile	—	**785WR9**
14 in	1 in	Wet/Dry	Masonry Saws, Small Flat Saws	Concrete, Masonry, Stone	Round	Brick, Concrete, Various Stone Materials	5,460 RPM	**53DT82**
14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	5,460 RPM	**53DT81**
18 in	1 in	Wet	Power Cutters, Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	3,395 RPM	**53DT44**
18 in	1 in	Wet	Large Flat Saws	Concrete, Granite	Round	Hard Aggregate, Medium Aggregate, Reinforced	3,395 RPM	**18F676**
20 in	1 in	Wet	Small Flat Saws	Concrete, Tile	Round	Green, Medium Aggregate, Reinforced	3,055 RPM	**53DT45**

Diamond Saw Blades

Diamond saw blades have diamond grit on the cutting edge to cut through concrete, tile, and brittle metal, such as cast iron, in construction and road work applications. Wet-cutting blades require a water source used to keep the blade cool, extending blade life and reducing airborne dust and contaminants.

Continuous rim diamond blades are used on tile, decorative stone, and brittle and glazed materials that chip easily.

Segmented rim diamond blades have slots cut into the rim of the blade to help dissipate heat and carry away dust and water slurry when cutting materials.

Turbo rim diamond blades have a continuous rim with narrow bands to help dissipate heat, carry material away from the cut, and cut through material faster than segmented blades.

Continuous Rim | **Segmented Rim** | **Turbo Rim**

DEWALT | Husqvarna

Continuous
4DV77

General Purpose Diamond Saw Blades

These general purpose diamond-grit saw blades cut masonry and other materials and are used for light-duty intermittent use and general maintenance. Round arbor shape.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Continuous								
Good	10 in	⅝ in	Wet	Chop Saws	—	6,000 RPM	DeWalt	**4DV76**
Better	7 in	⅝ in	Wet/Dry	Tile Saws	Tile	8,730 RPM	Husqvarna	**55TC06**
Best	10 in	⅝ in	Wet	Tile Saws	—	6,000 RPM	DeWalt	**4DV77**
Segmented								
Good	4 in	⅝ in	Dry	Angle Grinders, Masonry Saws	—	15,200 RPM	DeWalt	**4KZ51**
Better	4 ½ in	⅝ in, ⅞ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	13,300 RPM	Husqvarna	**53DT47**
	6 in	⅝ in, ⅞ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	10,185 RPM	Husqvarna	**53DT49**

Husqvarna | DEWALT

Turbo
3CB38

Concrete and Asphalt-Cutting Diamond Saw Blades

Concrete and asphalt-cutting diamond blades cut fresh or cured concrete and other hard and abrasive materials. Round arbor shape.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	12 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Masonry	6,300 RPM	Husqvarna	**2LDU7**
	24 in	1 in	Wet	Large Flat Saws, Small Flat Saws	Concrete	2,550 RPM	Husqvarna	**53DT54**
Better	14 in	1 in	Wet/Dry	Masonry Saws	Brick	5,460 RPM	Husqvarna	**54JF19**
	18 in	1 in	Wet	Large Flat Saws, Small Flat Saws	Concrete, Granite	3,395 RPM	Husqvarna	**2LDW8**
	20 in	1 in	Wet	Large Flat Saws, Small Flat Saws	Concrete, Granite	3,055 RPM	Husqvarna	**2LDX3**
Turbo								
Better	4 ½ in	⅞ in	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**4KZ42**
	7 in	⅝ in	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	8,700 RPM	DeWalt	**4KZ43**
Best	4 ½ in	⅞ in	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**3CB38**
Turbo/Segmented								
Best	4 ½ in	⅝ in	Wet/Dry	Angle Grinders, Masonry Saws	Masonry	13,300 RPM	DeWalt	**423K25**

Husqvarna | DEWALT | BOSCH

Segmented
53DT73

Masonry-Cutting Diamond Saw Blades

These masonry-cutting diamond saw blades cut through abrasive materials such as brick, cinderblock, and other materials that are not as hard as cured concrete. Round Arbor Shape

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	4 ½ in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Brick, Stone	13,300 RPM	Husqvarna	**53DT63**
	14 in	1 in	Wet/Dry	Masonry Saws	Block, Brick, Concrete	5,460 RPM	Husqvarna	**53DT73**
	16 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Tile	4,725 RPM	Husqvarna	**18F686**
Better	4 ½ in	⅝ in	Dry	Angle Grinders	—	13,300 RPM	DeWalt	**40K113**
	9 3/64 in	22 3/16 in	Dry	Power Cutter	Concrete		Husqvarna	**785WR9**
	14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Concrete, Masonry, Stone	5,460 RPM	Husqvarna	**2LDV6**
	20 in	1 in	Wet/Dry	Masonry Saws	Stone	3,055 RPM	Husqvarna	**53DT46**
Turbo								
Better	6 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone	10,185 RPM	Husqvarna	**55TC03**
Best	4 ½ in	⅞ in	Wet/Dry	Angle Grinders	Brick, Concrete, Stone	13,200 RPM	Bosch	**44M016**
	5 in	⅞ in	Wet/Dry	Angle Grinders	Brick, Concrete, Stone	13,300 RPM	Bosch	**44M027**

Continuous
1GED6

Milwaukee | DEWALT | Husqvarna | BOSCH

Tile-Cutting Diamond Saw Blades

- Round arbor shape

Tile-cutting diamond saw blades cut brittle masonry materials where chipping is a concern, such as glazed tile.

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Continuous								
Good	3 in	⅜ in	Wet/Dry	Angle Grinders, Masonry Saws	Ceramic, Porcelain, Tile	20,000 RPM	Milwaukee	**492T91**
	4 ½ in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Ceramic, Granite, Marble	13,300 RPM	Husqvarna	**18G356**
	4 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Masonry Saws	—	15,200 RPM	DeWalt	**4WM68**
	7 in	⅝ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Ceramic, Granite, Marble	8,730 RPM	Husqvarna	**53DT59**
Better	4 in	⅝ in, ⅞ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Tile	15,000 RPM	Husqvarna	**53DT61**
	4 ½ in	⅝ in, ⅞ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Tile	13,300 RPM	Husqvarna	**53DT70**
	7 in	⅝ in	Wet/Dry	Circular Saws	Ceramic, Granite, Porcelain	8,500 RPM	Bosch	**499K86**
	7 in	⅝ in	Wet	Circular Saws	Ceramic Tile, Glass	8,500 RPM	Bosch	**499K87**
	8 in	⅝ in	Wet/Dry	Circular Saws	Ceramic, Granite, Porcelain	7,650 RPM	Bosch	**499K88**
	8 in	⅝ in	Wet	Circular Saws	Ceramic Tile, Glass	7,650 RPM	Bosch	**499K89**
	10 in	⅝ in	Wet	Tile Saws	Ceramic, Slate	6,150 RPM	Bosch	**53DM20**
	10 in	⅝ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Tile	6,115 RPM	Husqvarna	**53DT62**
Best	4 in	⅝ in	Wet/Dry	Angle Grinders, Tile Saws	Ceramic, Granite, Marble	14,500 RPM	Bosch	**44M012**
	4 ½ in	⅞ in	Wet/Dry	Chop Saws	—	13,300 RPM	DeWalt	**1GED7**
	7 in	⅝ in	Wet	Chop Saws	—	8,700 RPM	DeWalt	**1GED8**
	7 in	⅝ in	Wet/Dry	Tile Saws	Ceramic, Granite, Marble	8,500 RPM	Bosch	**44M037**
	10 in	⅝ in	Wet	Stone Saws, Tile Saws	—	6,000 RPM	DeWalt	**1GED6**
Segmented								
Good	10 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Brick, Stone	6,115 RPM	Husqvarna	**53DT42**
	14 in	1 in	Dry	Chop Saws	Ferrous Metals	4,300 RPM	DeWalt	**6TMT8**
Better	7 in	⅝ in, ⅞ in	Wet	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone, Tile	8,730 RPM	Husqvarna	**53DT48**
	14 in	1 in	Wet/Dry	Power Cutters, Small Flat Saws	Iron	5,460 RPM	Husqvarna	**53DT76**
Best	14 in	1 in	Dry	Masonry Saws	—	5,400 RPM	DeWalt	**53DR73**
Turbo								
Better	7 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws, Tile Saws	Concrete, Masonry, Stone	8,730 RPM	Husqvarna	**55TC04**

Husqvarna BOSCH

Fire and Rescue Diamond Saw Blades

- Round arbor shape, except 55TC15 is triangular

These blades are commonly used by firefighters and first responders to cut through vehicle wreckage. They're built to make dry cuts through metal, masonry, and vehicle wreckage when a water source is not available.

Segmented 2LDV4

Grade	Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	Max. Blade Speed	Brand	Item No.
Segmented								
Good	12 in	1 in	Wet/Dry	Power Cutters	Concrete, Iron, Metal	6,300 RPM	Husqvarna	**5EAW8**
	6 ½ in	—	Dry	Soft Cut Saws	Concrete, Granite	6,048 RPM	Husqvarna	**55TC15**
Better	12 in	1 in	Wet/Dry	Power Cutters	Block, Brick, Concrete, Iron, Metal, Rebar, Stone	6,300 RPM	Husqvarna	**2LDV3**
	14 in	1 in	Wet/Dry	Power Cutters	Block, Brick, Concrete, Iron, Metal, Rebar, Stone	5,460 RPM	Husqvarna	**2LDV4**
Turbo								
Best	4 in	⅝ in	Wet/Dry	Angle Grinders	Concrete, Masonry, Stone	14,500 RPM	Bosch	**44M010**

DEWALT Husqvarna DIABLO Milwaukee

Metal-Cutting Diamond Saw Blades

- Round arbor shape
- Segmented blade

Metal-cutting diamond saw blades have a diamond-embedded rim that provides a sharp, hard edge for cutting hard metal alloys. Segmented rims have slots cut into the rim of the blade to help dissipate heat and carry away dust and water slurry when cutting brick, concrete, and abrasive materials. Wet-cutting blades require a water source to keep the blade cool, extend blade life, and reduce airborne dust and contaminants.

415J81

422W50

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	For Use On Concrete Type	Max. Blade Speed	Brand	Item No.
Segmented								
Grade: Professional								
9 in	⅞ in	Dry	Cut-Off Saw	Ductile Pipe, Fiberglass, Non-Ferrous Metal, PVC, Rebar, Rubber, Stainless Steel, Steel	—	6,600 RPM	DeWalt	**60NP23**
Grade: Good								
14 in	1 in	Wet	Power Cutters, Small Flat Saws	Concrete, Masonry, Stone	Construction Blocks	5,460 RPM	Husqvarna	**18F685**
Grade: Better								
4 ½ in	⅞ in	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	13,280 RPM	Diablo	**415J81**
4 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Tile Saws	Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	15,000 RPM	Husqvarna	**53DT71**
4 ½ in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Tile Saws	Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	13,300 RPM	Husqvarna	**53DT72**
5 in	⅞ in	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	12,200 RPM	Diablo	**415J82**
6 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	10,150 RPM	Diablo	**415J83**
7 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders, Circular Saws	Metal	—	8,450 RPM	Diablo	**422W50**
12 in	1 in	Dry	—	Stainless Steel	Hard Aggregate	—	Milwaukee	**56KY76**
14 in	1 in	Dry	—	Stainless Steel	Hard Aggregate	—	Milwaukee	**56KY77**
14 in	1 in	Wet/Dry	Power Cutters	Concrete, Iron, Metal	Hard Metals, PVC, Roofing Tiles, Steel, Tile Backer Boards	5,460 RPM	Husqvarna	**5EAW9**

Tuckpointing Blades

BOSCH Husqvarna

- Round arbor shape
- Segmented blade

Tuckpointing diamond saw blades have two parallel blades to remove weathered and damaged mortar. They are used in an angle grinder or circular saw. They cut channels ⅝" to ¾" deep. Wet cutting directs water to the cut to lubricates the cut and reduce airborne contaminants.

44M050

Blade Dia.	Arbor Size	Cutting Type	For Use With Saw Type	Materials Cut	For Use On Concrete Type	Max. Blade Speed	Brand	Item No.
Grade: Best								
5 in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	12,000 RPM	Bosch	**44M050**
5 in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	12,250 RPM	Bosch	**44M051**
4 in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	14,600 RPM	Bosch	**44M047**
4 ½ in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	13,300 RPM	Bosch	**44M048**
Grade: Better								
7 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	8,750 RPM	Husqvarna	**55TC13**
5 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	12,000 RPM	Husqvarna	**53DT75**
4 in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	1,550 RPM	Husqvarna	**55TC11**
4 ½ in	⅝ in, ⅞ in	Wet/Dry	Angle Grinders	Masonry	Aggressive Mortar Removal	1,350 RPM	Husqvarna	**55TC12**
Grade: Good								
5 in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	12,250 RPM	Bosch	**44M052**
4 ½ in	⅞ in	Dry	Angle Grinders	Mortar	Mortar Removal	13,300 RPM	Bosch	**44M049**

metabo DEWALT Milwaukee

Straight Die Grinders

These corded grinders set their grinding head in line with the tool body and have a slim profile to reach through openings where an angled head may not fit. This alignment makes it easier to apply pressure to the grinding head for greater control with detailed work. Provide light-to-moderate material removal where an angle grinder would be too large, and a rotary tool would be too small. They are corded to allow long run times with no batteries to recharge.

120V AC
30RV79

120V AC
36H113

120V AC/DC
1Y068

220 V AC
444P69

Current	Max. Speed	Collet Size	Switch Type	Lock-On Switch	Overall Length	Brand	Item No.
120V AC							
3.5 A	25,000 RPM	¼ in	Paddle	—	14 ½ in	Metabo	**34TE36**
4.2 A	25,000 RPM	¼ in	Paddle	Yes	14 in	DeWalt	**30RV79**
4.2 A	25,000 RPM	¼ in	Paddle	No	14 in	DeWalt	**30RV80**
6.4 A	30,500 RPM	¼ in	Slide	—	13 ¾ in	Metabo	**36H113**
6.4 A	30,500 RPM	¼ in	Slide	Yes	—	Metabo	**61KK19**
6.4 A	34,000 RPM	¼ in	Slide	—	10 in	Metabo	**36H112**
8.5 A	8,700 RPM	¼ in	Slide	—	14 in	Metabo	**36H114**
13 A	25,000 RPM	¼ in, ⅛ in	Paddle	No	20 in	DeWalt	**55UX96**

Current	Max. Speed	Collet Size	Switch Type	Lock-On Switch	Overall Length	Brand	Item No.
120V AC/DC							
4.5 A	21,000 RPM	¼ in, ⅛ in	Paddle	No	13 ½ in	Milwaukee	**1Y068**
4.5 A	21,000 RPM	¼ in, ⅛ in	Toggle	No	13 ½ in	Milwaukee	**4Z818**
11 A	14,500 RPM	¼ in, ⅛ in	Trigger	Yes	21 ½ in	Milwaukee	**6Z283**
220V AC							
4.2 A	25,000 RPM	¼ in	Paddle	No	14 in	DeWalt	**444P69**

Fillet Weld with Barrel Grip 24WJ77

Flat Head with Barrel Grip 55KG50

Flat Head with Rat-Tail Grip 14F099

Standard Head with Barrel Grip 494F37

Standard Head with Rat-Tail Grip 5MP76

Angle Grinders

Tools rotate grinding wheels to remove surface material or rotate cut-off wheels to cut through material. Commonly used to grind welds, prepare metal and concrete surfaces, and cut metal plates and pipe. Corded for long run times compared to cordless tools.

Fillet Weld, Barrel Grip—Long, slim arm extends the disc from the gear head to minimize the grinding profile for reaching into tight spaces.

Flat Head, Barrel Grip—Flat head with low profile fits into tight spaces. Barrel grip positions the user's hand just behind the grinder head for detailed work and for one-handed use.

Flat Head, Rat-Tail Grip—Flat head has a low profile to fit into tight spaces. Rat-tail grip allows for better control and a comfortable hold to reduce fatigue during extended use. Designed for a two-handed grip with one hand on the body, other hand on the side handle.

Standard Head, Barrel Grip—Standard head for material removal and cutting on surfaces without tight angles and corners. Barrel grip positions the user's hand just behind the grinder head for detailed work and for one-handed use.

Standard Head, Rat-Tail Grip—Has a standard head for material removal and cutting on surfaces without tight angles and corners. Rat-tail grip allows for better control and a comfortable hold to reduce fatigue during extended use. Designed for a two-handed grip with one hand on the body, other hand on the side handle.

Current	Max. Speed	Switch Type	Spindle Thread Size	Brake Type	Lock-On Switch	Safety Features	Kit Contents	Brand	Item No.
Fillet Weld with Barrel Grip									
6" Wheel Diameter									
8 A	3,750 RPM	Trigger	⅝ in-11	Electronic	Yes	Adjustable Guard, Brake, Lock-Off Switch	(1) Bare Tool , (4) Grinding Discs, (1) Profile Stone	Fein	**24WJ77**
Flat Head with Barrel Grip									
4½" Wheel Diameter									
6 A	11,000 RPM	Slide	⅝ in-11	None	Yes	—	(1) Bare Tool, (1) Type 27 INOX Grinding Wheel, (1) Guard	Makita	**4AYY1**
7.5 A	11,000 RPM	Paddle	⅝ in-11	None	Yes	Lock-Off Switch	(1) Bare Tool, (1) Type 27 INOX Grinding Wheel, (1) Guard	Makita	**4AYX9**
10 A	11000 RPM	Paddle	⅝ in-11	—	Yes	Adjustable Tool-Free Guard, Lock-On Paddle Switch	(1) Anti-Vibration Auxiliary Handle, (1) Flange Kit, (1) Spanner Wrench, (1) Wheel Guard	Bosch	**794C62**
10 A	11,900 RPM	Paddle	⅝ in-11	None	No	Adjustable Guard, Lock-Off Switch	(1) Bare Tool, (1) Guard	Makita	**48Z880**
13 A	10,500 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch	(1) Bare Tool, (1) Type 27 INOX Grinding Wheel, (1) Guard	Makita	**1GUA4**
4½", 5" Wheel Diameter									
9 A	12,000 RPM	Paddle	⅝ in-11	None	No	Adjustable Guard	(1) Bare Tool, (1) Type 27 Guard	DeWalt	**55KG50**
5" Wheel Diameter									
8 A	10,000 RPM	Paddle	⅝ in-11	None	No	Adjustable Guard, Anti-Kickback Clutch, Anti-Restart	(1) Bare Tool, (1) Disc	Metabo	**33RN32**
13 A	10,500 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch	(1) Bare Tool, (1) Type 27 INOX Grinding Wheel, (1) Guard	Makita	**1GUA6**
6" Wheel Diameter									
14 A	9,600 RPM	Paddle	M14	Mechanical	No	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) Guard	Metabo	**419J93**
Flat Head with Rat-Tail Grip									
5" Wheel Diameter									
10.5 A	11,000 RPM	Trigger	⅝ in-11	Electronic	No	Adjustable Guard, Anti-Kickback Clutch, Brake, Lock-Off Switch	(1) Bare Tool, (1) Type 27 INOX Grinding Wheel, (1) Guard	Makita	**14F099**
7" Wheel Diameter									
15 A	8,500 RPM	Trigger	⅝ in-11	None	Yes	Lock-Off Switch	(1) Bare Tool, (1) Guard	DeWalt	**34D748**
9" Wheel Diameter									
15 A	6,500 RPM	Trigger	⅝ in-11	None	Yes	Lock-Off Switch	(1) Bare Tool, (1) Guard	DeWalt	**34D747**
15 A	6,500 RPM	Trigger	⅝ in-11	None	No	Lock-Off Switch	(1) Bare Tool, (1) Guard	DeWalt	**34D750**
Standard Head with Barrel Grip									
4½" Wheel Diameter									
7 A	12,000 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Lock-Off Switch	(1) Bare Tool, (1) Abrasive Wheel, (1) Wheel Guard	DeWalt	**34D754**
9 A	12,000 RPM	Paddle	⅝ in-11	None	No	Adjustable Guard, Lock-Off Switch	(1) Bare Tool, (1) Guard	DeWalt	**19TF50**
10 A	11,000 RPM	Paddle	X-Lock	None	Yes	Adjustable Guard, Anti-Restart, Lock-Off Switch, Tether Capable	(1) Bare Tool, (1) Wheel Guard	Bosch	**54Z772**
10 A	11,000 RPM	Paddle	⅝ in-11	—	No	Adjustable Tool-free Guard, Anti-vibration Side Handle for Control, Multi-grip Paddle Switch	Anti-Vibration Auxiliary Handle, Flange Kit, GWS10-450PD 4 ½ in Ergonomic Angle Grinder with No Lock-On Paddle Switch, Spanner Wrench, Wheel Guard	Bosch	**793WN6**
11 A	11,000 RPM	Paddle	⅝ in-11	None	Yes	Adjustable Guard, Anti-Restart, Lock-Off Switch	(1) Bare Tool, (1) Type 27 Guard	DeWalt	**32NL61**
11 A	11,000 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch, Tether Capable	(1) Bare Tool, (1) Type 27 Guard	Milwaukee	**6MRR5**
5" Wheel Diameter									
11 A	11,000 RPM	Paddle	⅝ in-11	Mechanical	No	Adjustable Guard, Anti-Kickback Clutch, Brake, Tether Capable	(1) Bare Tool, (1) Type 27 Guard	Milwaukee	**494F37**
11 A	11,000 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch	(1) Bare Tool, (1) Guard	Metabo	**56GY15**
12 A	11,000 RPM	Paddle	⅝ in-11	Mechanical	No	Adjustable Guard, Anti-Kickback Clutch, Brake, Lock-Off Switch, Tether Ready	(1) Bare Tool, (1) Guard	Metabo	**56GY23**
13 A	10,500 RPM	Paddle	⅝ in-11	Electronic	No	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) Type 27 Guard	DeWalt	**54JJ49**
13 A	10,500 RPM	Slide	⅝ in-11	Electronic	Yes	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) Type 27 Guard	DeWalt	**54JJ48**
14 A	9,600 RPM	Slide	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch, Anti-Restart	(1) Bare Tool, (1) Guard	Metabo	**36XM17**
5", 6" Wheel Diameter									
13 A	8,000 RPM	Slide	⅝ in-11	Electronic	Yes	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) Type 27 Guard	DeWalt	**54JJ47**
13 A	9,000 RPM	Slide	⅝ in-11	Electronic	Yes	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool	DeWalt	**54JJ46**
6" Wheel Diameter									
12 A	10,000 RPM	Paddle	⅝ in-11	Mechanical	No	Adjustable Guard, Anti-Kickback Clutch, Brake, Lock-Off Switch, Tether Ready	(1) Bare Tool, (1) Guard	Metabo	**56GY26**
13 A	9,000 RPM	Paddle	⅝ in-11	Electronic	No	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) 6 in Type 27 Guard, (1) 6 in Type 1 Guard	DeWalt	**54JJ45**
15 A	9,600 RPM	Paddle	⅝ in-11	Mechanical	No	Adjustable Guard, Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch, Tether Ready	(1) Bare Tool, (1) Guard	Metabo	**419J88**
Standard Head with Rat-Tail Grip									
4½" Wheel Diameter									
11 A	11,000 RPM	Paddle	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch, Tether Capable	(1) Bare Tool, (1) Type 27 Guard, (1) Grinding Wheel	Milwaukee	**53DT15**
11 A	11,000 RPM	Trigger	⅝ in-11	None	Yes	Adjustable Guard, Anti-Kickback Clutch, Tether Capable	(1) Bare Tool, (1) Type 27 Guard	Milwaukee	**6MRR6**
5" Wheel Diameter									
12 A	11,000 RPM	Trigger	⅝ in-11	None	Yes	—	(1) Bare Tool, (1) Grinding Wheel	DeWalt	**5MP76**
13 A	9,000 RPM	Slide	⅝ in-11	Electronic	No	Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) Type 27 Guard, (1) Surfacing Shroud, (1) Surfacing Wheel	DeWalt	**54JJ41**
13 A	9,000 RPM	Trigger	⅝ in-11	None	No	Adjustable Guard, Anti-Kickback Clutch, Tether Capable	(1) Bare Tool, (1) Type 27 Guard	Milwaukee	**6MRT8**
15 A	10,000 RPM	Paddle	⅝ in-11	Mechanical	No	Adjustable Guard, Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch, Tether Ready	(1) Bare Tool, (1) Guard	Metabo	**419J87**
6" Wheel Diameter									
13 A	9,000 RPM	Trigger	⅝ in-11	Electronic	No	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch	(1) Bare Tool, (1) 6 in Type 27 Guard, (1) 5 in Type 27 Guard	DeWalt	**54JJ44**
15 A	9,600 RPM	Paddle	⅝ in-11	None	No	Adjustable Guard, Anti-Kickback Clutch, Anti-Restart, Lock-Off Switch	(1) Bare Tool, (1) Guard	Metabo	**419J89**
7" Wheel Diameter									
13 A	8,500 RPM	Trigger	⅝ in-11	Electronic	No	Anti-Kickback Clutch, Anti-Restart, Brake, Lock-Off Switch, Tether Ready	(1) Bare Tool, (1) 7 in Type 27 Guard	DeWalt	**54JJ43**
13 A	8,500 RPM	Trigger	⅝ in-11	None	Yes	—	(1) Bare Tool, (1) 7 in Wheel, (1) 7 in Type 27 Guard	DeWalt	**4PC47**
15 A	8,450 RPM	Trigger	⅝ in-11	None	Yes	Adjustable Guard, Lock-Off Switch	(1) Bare Tool, (1) Guard	Metabo	**34TE33**
7", 9" Wheel Diameter									
15 A	6,000 RPM	Trigger	⅝ in-11	None	Yes	Adjustable Guard	(1) Bare Tool, (2) Guards	DeWalt	**1EZ31**
9" Wheel Diameter									
13 A	5,500 RPM	Trigger	⅝ in-11	None	Yes	Tether Capable	(1) Bare Tool	Milwaukee	**4Z819**
15 A	6,000 RPM	Trigger	⅝ in-11	None	No	Adjustable Guard, Tether Capable	(1) Bare Tool, (1) Type 27 Guard	Milwaukee	**38D249**
15 A	6,600 RPM	Trigger	⅝ in-11	Mechanical	Yes	—	(1) Bare Tool	Metabo	**60NK57**

Type 1
Norton
5A921

Type 1
United
Abrasives-
Sait
5LUA1

Abrasive Cut-Off Wheel Diameter Up to 5" Dia.

Cut ferrous metals and stainless steel with aluminum oxide abrasive wheels. Zirconia wheels can efficiently cut a variety of material from stainless and carbon steels to alloys and gray iron. Use a ceramic/zirconia alumina abrasive wheel in a right angle grinder to cut steel and stainless steel.

Abrasive Wheel Diameter	Arbor Hole Size	Thickness	Abrasive Material	Max. RPM	Series	Item No.
Type 1						
—						
4 ½ in	⅞ in	0.04 in	Aluminum Oxide	13,580 RPM	Carbo Metal	**435Y59**
3M						
3 in	⅜ in	0.035 in	Ceramic	25,465 RPM	CUBITRON II	**22NZ81**
4 in	⅜ in	0.035 in	Ceramic	19,100 RPM	CUBITRON II	**22NZ85**
4 in	⅜ in	0.06 in	Ceramic	19,100 RPM	CUBITRON II	**22NZ87**
4 in	⅜ in	0.125 in	Ceramic	19,100 RPM	CUBITRON II	**22NZ91**
4 ½ in	⅞ in	0.04 in	Ceramic	13,300 RPM	CUBITRON II	**40LE80**
4 ½ in	⅞ in	0.045 in	Ceramic Grain	13,300 RPM	Silver	**450Y23**
DeWalt						
3 in	⅜ in	0.035 in	Aluminum Oxide	24,000 RPM	A60T	**3CB20**
3 in	⅜ in	0.0625 in	Aluminum Oxide	24,000 RPM	A60T	**3CB19**
4 ½ in	⅝"-11	0.045 in	Aluminum Oxide	13,300 RPM	High Performance	**416L01**
4 in	⅝ in	0.045 in	Aluminum Oxide	19,000 RPM	A60T	**6HD43**
4 ½ in	⅝"-11	0.045 in	Ceramic	13,300 RPM	XP Ceramic	**416L05**
4 ½ in	⅞ in	0.04 in	Aluminum Oxide	13,300 RPM	High Performance	**49ZZ79**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,300 RPM	A60T	**6HD44**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,300 RPM	High Performance	**6TMP9**
4 ½ in	⅞ in	0.045 in	Ceramic	13,300 RPM	XP Ceramic	**49ZZ84**
4 ½ in	⅞ in	0.045 in	Ceramic	13,300 RPM	FLEXVOLT®	**444P76**
5 in	⅞ in	0.04 in	Ceramic	12,200 RPM	XP Ceramic	**49ZZ86**
5 in	⅞ in	0.045 in	Aluminum Oxide	12,200 RPM	A60T	**6HD45**
Diamond Vantage						
4 ½ in	⅞ in	0.05 in	Diamond	13,600 RPM	—	**21AP64**
Finish 1St						
4 ½ in	⅞ in	0.04 in	Aluminum Oxide	13,300 RPM	—	**49XX09**
LENOX						
3 in	⅜ in	0.05 in	Diamond	20,300 RPM	MetalMax	**48RW95**
4 in	⅝ in	0.05 in	Diamond	15,200 RPM	MetalMax	**48RW97**
4 ½ in	⅞ in	0.05 in	Diamond	13,200 RPM	MetalMax™	**48RW98**
Metabo						
4 ½ in	⅞ in	0.045 in	Ceramic	13,300 RPM	CA46U	**52CC92**
Milwaukee						
3 in	⅜ in	0.04 in	Aluminum Oxide	20,000 RPM	—	**492T89**
Norton						
2 in	⅜ in	0.035 in	Aluminum Oxide	30,560 RPM	Gemini Free Cut	**4F872**
3 in	¼ in	0.035 in	Aluminum Oxide	25,465 RPM	Gemini Free Cut	**5A921**
3 in	¼ in	0.035 in	Ceramic	25,465 RPM	NorZon Plus	**25TZ08**
3 in	¼ in	0.0625 in	Aluminum Oxide	25,465 RPM	Gemini Free Cut	**5A923**
3 in	⅜ in	0.035 in	Aluminum Oxide	25,465 RPM	Gemini Free Cut	**5A922**
3 in	⅜ in	0.035 in	Zirconia Alumina	25,465 RPM	BlueFire	**33N542**
3 in	⅜ in	0.0625 in	Aluminum Oxide	25,465 RPM	Gemini Free Cut	**5A924**
3 in	⅜ in	0.0625 in	Ceramic	25,465 RPM	NorZon Plus	**1PYA8**
3 in	⅜ in	0.125 in	Aluminum Oxide	25,465 RPM	Gemini Free Cut	**5A926**
4 in	¼ in	0.035 in	Aluminum Oxide	19,100 RPM	Gemini Free Cut	**4B166**
4 in	⅜ in	0.035 in	Aluminum Oxide	19,100 RPM	Gemini Free Cut	**5A927**
4 in	⅜ in	0.035 in	Ceramic	19,100 RPM	NorZon Plus	**3WL24**
4 in	⅜ in	0.0625 in	Aluminum Oxide	19,100 RPM	Gemini Free Cut	**5A928**
4 in	⅜ in	0.0625 in	Zirconia Alumina	19,100 RPM	BlueFire	**33N540**
4 in	⅜ in	0.125 in	Aluminum Oxide	19,100 RPM	Gemini Fast Cut	**5A929**
4 in	⅝ in	0.045 in	Aluminum Oxide	15,280 RPM	Gemini Right Cut	**5GC50**
4 ½ in	⅞ in	0.04 in	Aluminum Oxide	13,580 RPM	Norton Metal RightCut	**25TY43**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,580 RPM	Gemini Right Cut	**5GC52**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,580 RPM	Gemini RightCut Stainless	**436D96**
4 ½ in	⅞ in	0.0625 in	Zirconia Alumina	13,580 RPM	BlueFire Right Cut	**33N332**
5 in	⅞ in	0.04 in	Aluminum Oxide	12,225 RPM	Norton Metal RightCut	**25TY46**
5 in	⅞ in	0.045 in	Aluminum Oxide	12,225 RPM	Gemini Right Cut	**5GC53**
5 in	⅞ in	0.045 in	Zirconia Alumina	12,225 RPM	BlueFire Right Cut	**33N333**
United Abrasives-Sait						
3 in	⅜ in	0.035 in	Aluminum Oxide	25,000 RPM	A36T	**5LUA5**
3 in	⅜ in	0.0625 in	Aluminum Oxide	25,000 RPM	A36T	**5LUA1**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,300 RPM	A60S	**1ATZ3**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,300 RPM	The Ultimate Cut™	**22PT32**
4 ½ in	⅞ in	0.045 in	Aluminum Oxide	13,300 RPM	SAIT.M.X.™	**1AUB1**
4 ½ in	⅞ in	0.045 in	Ceramic	13,300 RPM	Saitech™	**1ATZ7**
4 ½ in	⅞ in	0.045 in	Zirconia Alumina	13,300 RPM	Z-Tech™	**1AUA6**
4 ½ in	⅞ in	0.0625 in	Aluminum Oxide	13,300 RPM	—	**5LUE4**
5 in	⅞ in	0.045 in	Aluminum Oxide	12,200 RPM	A60S	**1ATZ4**
Type 27						
3M						
4 ½ in	⅞ in	0.045 in	Ceramic Grain	13,300 RPM	Silver	**450Y24**
DeWalt						
4 ½ in	⅝"-11	0.045 in	Ceramic	13,300 RPM	XP Ceramic	**416L04**
4 ½ in	⅞ in	0.04 in	Ceramic	13,300 RPM	High Performance	**49ZZ80**
4 ½ in	⅞ in	0.04 in	Ceramic	13,300 RPM	XP Ceramic	**49ZZ85**
Norton						
4 ½ in	⅞ in	0.0625 in	Ceramic	13,580 RPM	Quantum 3	**54YL91**

Abrasive Cut-Off Wheels Diameter 6" to 14" Dia.

Type 1
Metabo
52CC93

Type 27
DeWalt
49ZZ73

Aluminum Oxide abrasive is suitable for cutting and grinding ferrous metal, gray iron, stainless, nonferrous materials, aluminum, and pipeline. Ceramic abrasive is suitable for fast cutting on almost all materials, including stainless steel, mild steel, and aerospace alloys. Diamond abrasive is suitable for most metals, including steel, sheet metal, stainless steel, rebar, cast-iron, aluminum, and other non-ferrous metals. Silicon Carbide abrasive is suitable for cutting nonferrous materials. Zirconium Aluminum Oxide abrasive is suitable for aggressive material removal on stainless steel

Abrasive Wheel Diameter	Arbor Hole Size	Thickness	Abrasive Material	Max. RPM	Series	Item No.
Type 1						
—						
6 in	⅞ in	0.045 in	Aluminum Oxide	10,185 RPM	GoldCut	**435Y64**
3M						
6 in	⅞ in	0.045 in	Ceramic	10,200 RPM	CUBITRON II	**22NZ94**
6 in	⅞ in	0.045 in	Ceramic Grain	10,200 RPM	Silver	**450Y34**
Bosch						
6 in	⅞ in		Aluminum Oxide	10,200 RPM	—	**61DP64**
DeWalt						
6 in	⅝"-11	0.045 in	Aluminum Oxide	10,100 RPM	High Performance	**416L02**
6 in	⅞ in	0.04 in	Aluminum Oxide	10,100 RPM	High Performance	**6TMR1**
6 in	⅞ in	0.04 in	Ceramic	10,100 RPM	XP Ceramic	**49ZZ87**
6 in	⅞ in	0.04 in	Ceramic	10,100 RPM	High Performance	**49ZZ82**
6 in	⅞ in	0.045 in	Aluminum Oxide	10,100 RPM	A60T	**3CB32**
6 in	⅞ in	0.045 in	Ceramic	10,100 RPM	FLEXVOLT®	**444P74**
6 in	⅞ in	0.045 in	Zirconia Alumina	10,100 RPM	Extended Performance	**6TMT5**
7 in	⅞ in	0.045 in	Aluminum Oxide	8,700 RPM	A60T	**6HD47**
9 in	⅞ in	0.0781 in	Ceramic	6,600 RPM	FLEXVOLT®	**493Z13**
12 in	1 in	0.125 in	Aluminum Oxide	6,400 RPM	High Performance	**6HD27**
14 in	1 in	0.1094 in	Aluminum Oxide	4,300 RPM	High Performance	**4LD94**
14 in	1 in	0.1094 in	Aluminum Oxide	4,300 RPM	High Performance	**5TU10**
14 in	1 in	0.1094 in	Aluminum Oxide	4,300 RPM	High Performance	**4PC42**
14 in	1 in	0.1094 in	Aluminum Oxide	4,300 RPM	Extended Performance	**3CB41**
14 in	1 in	0.1094 in	Aluminum Oxide	4,300 RPM	High Performance	**4PC43**
14 in	1 in	0.125 in	Aluminum Oxide	5,500 RPM	High Performance	**6HD25**
14 in	20mm	0.125 in	Aluminum Oxide	5,500 RPM	High Performance	**6HD26**
Diamond Vantage						
7 in	⅝ in	0.5 in	Diamond	8,725 RPM	—	**21AP62**
9 in	⅞ in	0.5 in	Diamond	6,800 RPM	—	**21AP63**
LENOX						
6 in	⅞ in	0.05 in	Diamond	10,100 RPM	MetalMax	**48RX01**
7 in	⅞ in	0.06 in	Diamond	8,400 RPM	MetalMax	**48RX02**
10 in	⅝ in	0.1 in	Diamond	4,300 RPM	MetalMax	**48RX04**
14 in	1 in	0.13 in	Diamond	4,300 RPM	MetalMax	**48RX06**
14 in	1 in	0.15 in	Diamond	5,300 RPM	MetalMax	**48RX08**
Makita						
9 in	⅞ in	0.079 in	Aluminum Oxide	6,650 RPM	—	**60UP37**
Metabo						
6 in	⅞ in	0.045 in	Ceramic	10,200 RPM	CA46U	**52CC93**
Milwaukee						
9 in	⅞ in	0.093 in		6,600 RPM	—	**56LA67**
Norton						
6 in	⅝ in	0.035 in	Aluminum Oxide	10,185 RPM	Gemini	**25TZ29**
6 in	⅝ in	0.035 in	Aluminum Oxide	10,190 RPM	A60	**2D750**
6 in	⅝ in	0.0625 in	Aluminum Oxide	10,190 RPM	Gemini	**25TZ30**
6 in	⅞ in	0.04 in	Aluminum Oxide	10,190 RPM	Norton Metal RightCut	**25TY48**
6 in	⅞ in	0.045 in	Aluminum Oxide	10,185 RPM	Gemini RightCut Stainless	**436D97**
6 in	⅞ in	0.045 in	Aluminum Oxide	10,285 RPM	Gemini Right Cut™	**5GC54**
6 in	⅞ in	0.045 in	Zirconia Alumina	10,185 RPM	BlueFire Right Cut	**33N334**
6 in	1¼ in	0.035 in	Aluminum Oxide	6,370 RPM	57A	**2D762**
6 in	1¼ in	0.035 in	Aluminum Oxide	10,190 RPM	A60	**2D751**
7 in	½ in	0.035 in	Aluminum Oxide	8,730 RPM	A60	**2D753**
7 in	⅝ in	0.0937 in	Aluminum Oxide	8,730 RPM	57A	**4DDU9**
7 in	1¼ in	0.035 in	Aluminum Oxide	5,460 RPM	57A	**2D776**
7 in	1¼ in	0.035 in	Aluminum Oxide	5,460 RPM	23A	**4DDV2**
7 in	1¼ in	0.035 in	Aluminum Oxide	5,460 RPM	57A	**2D779**
7 in	1¼ in	0.035 in	Aluminum Oxide	5,460 RPM	57A	**2D777**
7 in	1¼ in	0.05 in	Aluminum Oxide	5,460 RPM	23A	**4DDV3**
7 in	1¼ in	0.06 in	Aluminum Oxide	6,550 RPM	57A	**2D770**
7 in	1¼ in	0.06 in	Aluminum Oxide	8,730 RPM	A60	**4DDU6**
8 in	½ in	0.06 in	Aluminum Oxide	5,730 RPM	57A	**2D784**
8 in	⅝ in	0.125 in	Aluminum Oxide	7,640 RPM	57A	**4DDV1**
8 in	1¼ in	0.06 in	Aluminum Oxide	5,730 RPM	57A	**2D788**
10 in	⅝ in	0.06 in	Aluminum Oxide	4,585 RPM	57A	**3UP21**
10 in	⅝ in	0.06 in	Aluminum Oxide	4,585 RPM	57A	**2D789**
10 in	⅝ in	0.0937 in	Aluminum Oxide	6,110 RPM	Gemini Fast Cut	**3WT23**
10 in	⅝ in	0.0937 in	Aluminum Oxide	6,110 RPM	Gemini Long Life	**6A101**
10 in	⅝ in	0.0937 in	Silicon Carbide	6,110 RPM	Masonry	**25TY91**
10 in	⅝ in	0.0937 in	Zirconia Alumina	6,110 RPM	BlueFire	**33N528**
10 in	1 in	0.1094 in	Aluminum Oxide	6,110 RPM	Gemini	**4B163**
Westward						
7 in	⅞ in	0.125 in	Aluminum Oxide	8,600 RPM	A60T	**6ZFH3**
Type 27						
3M Cubitron Ii						
9 in	⅝"-11	0.125 in	Precision-Shaped Grain	6,650 RPM	—	**60XZ96**
DeWalt						
7 in	⅞ in	0.0625 in	Ceramic	8,700 RPM	XP Ceramic	**49ZZ73**
Norton						
6 in	⅞ in	0.0625 in	Ceramic	10,185 RPM	Quantum 3	**54YL97**

BOSCH DEWALT DREMEL Fein Makita PORTER CABLE

Oscillating Tools

- 120VAC

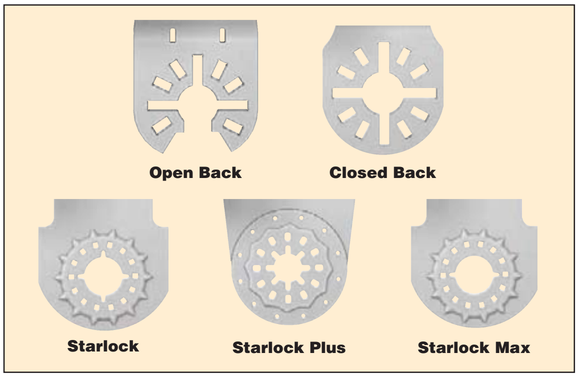
Dewalt
25DU79

Dremel
491N39

Oscillation Angle	Current	Accessory Free Tool Change	Tool Length	Connection Style	Kit Contents	Item No.
Bosch						
8,000 to 20,000 Oscillations per Minute						
3.6 °	5.5 A	Yes	11 in	Starlock Max	(1) Bare Tool, (1) Plunge Blade	**49AX72**
DeWalt						
0 to 22,000 Oscillations per Minute						
3.2 °	3 A	Yes	13 in	Universal Open Back	(1) Bare Tool, (3) Blades, (1) Depth Guide, (1) Sanding Platen, (25) Sandpaper Sheets, (1) Adapter	**25DU79**
Dremel						
10,000 to 21,000 Oscillations per Minute						
3.2 °	3.5 A	Yes	14 ¼ in	Universal Open Back	(1) Bare Tool, (1) Flush Blade, (1) Saw	**491N39**
3.2 °	5 A	Yes	17 ¼ in	Universal Open Back	(1) Bare Tool, (1) Flush Blade, (1) Grout Blade, (1) Scraper Blade	**491N40**
Fein						
10,000 to 19,500 Oscillations per Minute						
2 °	4.2 A	No	—	Starlock Max	(1) Bare Tool, (11) Saw Blades, (1) Scraper Blade, (1) Cutting Blade, (40) Sanding Sheets, (1) Sanding Pad	**784J51**
3.4 °	3.8 A	No	19 in	FEIN Hexagonal	(1) Bare Tool	**61KK08**
4 °	3.8 A	No	19 in	Starlock; Starlock Plus; Starlock Max	(1) Bare Tool, (1) Cutting Blade	**61KK07**
4 °	4.2 A	Yes	19 in	Starlock; Starlock Plus	(1) Bare Tool, (1) Pointed Blade, (5) Cutting Blades	**61KL85**
Makita						
6,000 to 20,000 Oscillations per Minute						
3.2 °	3 A	Yes	11 ⅛ in	Starlock	(1) Bare Tool, (1)Plunge Blade, (1) Sanding Pad, (5) 120 Grit Sandpaper, (5) 180 Grit Sandpaper	**20UJ26**
Porter Cable						
10,000 to 22,000 Oscillations per Minute						
2.8 °	3 A	Yes	11 in	Universal Open Back	(1) Bare Tool, (1) Flush Blade, (1) End-Cut Blade, (1) Precision Blade, (1) Scraper Blade, (1) Sanding Platen, (25) Sandpaper Sheets	**40F274**
2.8 °	3 A	Yes	11 in	Universal Open Back	(1) Bare Tool, (2) Blades	**31LY45**

Cutting & Scraping Blade Set
29DY36

Straight Cutting Blade
49JP75



Blade Width	Overall Length	Blade Material	Connection Style	No. of Pieces	Brand	Item No.
Round Cutting Blades						
For Nail-Embedded Wood						
4"	2 ⅞ in	Steel	Universal Open-Back	3	DeWalt	**29DY32**
For Soft Materials						
4"	3 in	Bi-Metal	Starlock	1	Bosch	**48XX08**
Scraping Blades						
Straight Blade Shape, Rigid						
2"	2 ¾ in	Steel	Universal Open-Back	3	DeWalt	**29DY37**
Sealant Removal Hooks						
Pointed Blade Shape						
2¼"	4 ¾ in	Steel	Universal Closed-Back	2	Fein	**20VH13**
Straight Cutting Blades						
For Bolts, Cement Board, Hard Metal, Metal Pipe, Plaster, Screws Cutting, Straight Cutting Blade						
1⅜"	1 ½ in	Bi-Metal	Universal Open-Back	5	Milwaukee	**60RK40**
For General Purpose Cutting, Flush Cut Blade						
1¼"	1 ½ in	Carbide Tipped	Universal Open-Back	1	Dremel	**22DL20**
For General Purpose Cutting, Plunge Cut Blade						
1¼"	1 ¼ in	Bi-Metal	Starlock	3	Bosch	**48XX14**
1¼"	3 ½ in	Steel	Universal Open-Back	1	DeWalt	**49JP66**
For Metal Cutting, Plunge Cut Blade						
1¼"		Titanium Nitride Coating Bi-Metal	Universal Open-Back	10	DeWalt	**49JP75**
1¼"	3 ¾ in	Steel	Universal Open-Back	3	DeWalt	**29DY29**
1¼"	4 in	Carbide Tipped	Starlock	3	Bosch	**48XX16**
1¾"		Titanium Nitride Coating Bi-Metal	Universal Open-Back	10	DeWalt	**49JP76**
For Nail-Embedded Wood Cutting, Plunge Cut Blade						
1¼"		High Speed Steel	Universal Open-Back	10	DeWalt	**49JP77**
1¾"	4 3⁄16 in	Steel	Universal Open-Back	3	DeWalt	**29DY24**
For Soft Metals Cutting, Plunge Cut Blade						
1⅛"	4 5⁄16 in	Bi-Metal	Starlock Plus	10	Fein	**48ZC08**
For Wood Cutting, Fast Cut Blade						
1¼"		Steel	Universal Open-Back	3	DeWalt	**49JP61**
For Wood Cutting, Plunge Cut Blade						
1¼"		Steel	Universal Open-Back	10	DeWalt	**49JP78**
2½"		High Speed Steel	Universal Open-Back	10	DeWalt	**49JP79**

DEWALT BOSCH Fein Milwaukee DREMEL eazypower SUPPLIER DIVERSITY

Oscillating Tool Blades and Sets

Blades attach to an oscillating tool for tasks such as removing grout or sealant, cutting, scraping, sanding, and polishing.

W	Connec. Type	Brand	Item No.
Backing Pad, Triangular Shape, Hook-and-Loop			
3 3⁄16"	Starlock	Fein	**48ZC69**
3½"	Universal Open Back	DeWalt	**29DY22**

No. of Blades	Oscillating Tool Accessory Type	Blade Shape	Connection Style	Brand	Item No.
Cutting, Scraping, and Sanding Set					
Ceramic,-Grout,-Masonry,-Particleboard,-Plastic,-Soft-Materials,-Wood					
40	Cutting Blade, Grout Removal Blade, Sanding Pad, Scraping Blade	Hooked,-Round,-Straight,-Triangular	Universal-Closed-Back	Eazypower	**32ZU97**
Metal,-Tile,-Wood					
28	Cutting Blade, Grout Removal Blade, Sanding Pad, Scraping Blade	Pointed,-Round,-Straight,-Triangular	Universal-Closed-Back	Eazypower	**32ZV84**
Cutting and Scraping Blade Set					
Nail-Embedded-Wood					
5	Cutting Blade, Scraping Blade, Rigid Scraper Blade	Round,-Straight	Universal-Open-Back	DeWalt	**29DY36**
Wood					
3	Cutting Blade, Scraping Blade	Straight	Universal-Open-Back	DeWalt	**29DY35**
Cutting Blade Set					
Drywall,-Metal,-Nail-Embedded-Wood,-Plastic,-Wood					
6	Cutting Blade	Straight	Starlock-Plus	Fein	**48ZA76**
Metal,-Wood					
6	Cutting Blade	Round,-Straight	Starlock	Bosch	**48XX19**
Soft-Metals,-Drywall,-Plastic,-Wood,-Nail-Embedded-Wood					
6	Cutting Blade	Straight	Universal-Open-Back	Milwaukee	**60YT33**

Corded
5EEU8

Cordless
34E359

Rotary Tools

DREMEL

- 35,000 RPM max. speed

Current	Speed Setting	Collet Size	Kit Contents	Item No.
Handheld Corded Rotary Tools				
0.9 A	Dual Speed	⅛ in	(1) Bare Tool, (22) Assorted Accessories	**5EEU5**
0.9 A	Single Speed	⅛ in	(1) Bare Tool, (7) Assorted Accessories	**5EEU4**
1.2 A	Variable Speed	⅛ in	(1) Bare Tool, (25) Assorted Accessories	**14H446**
1.6 A	Variable Speed	⅛ in	(1) Bare Tool, (50) Assorted Accessories	**5EEU8**
1.6 A	Variable Speed	⅛ in	(1) Bare Tool, (39) Assorted Accessories	**44K705**
1.8 A	Variable Speed	1⁄32 to ⅛ in	(1) Bare Tool, (8) Assorted Accessories	**52YP66**
1.8 A	Variable Speed	1⁄32 to ⅛ in	(1) Bare Tool, (40) Assorted Accessories	**52YP65**

Voltage	Speed Setting	Collet Size	Brushless Motor	Cordless Tool Kit Contents	Mfr. Model	Item No.
Cordless Tool Kits						
4V DC	Variable Speed	1 ¾ in	No	(1) Bare Tool, (1) Universal Micro-USB cord, (1) USB Wall Plug Power Supply	7760-N/10	**784J43**
12V DC	Variable Speed	⅛ in	No	(1) Bare Tool, (1) Battery, (1) Charger	8220-1/28	**34E359**
12V DC	Variable Speed	⅛ in	No	(1) Bare Tool, (2) Batteries, (1) Charger	8220-2/28	**34E360**
Replacement Battery						
					B814-01	**784J52**

Rotary Tool Bits & Attachments

DREMEL

Shape	Head Width	Item No.	Pkg. Qty.
Abrasive Point			
Aluminum Oxide			
Cylinder	⅜ in	**3W850**	1
Cylinder	⅝ in	**1UH81**	1
Round Disk	1 in	**41HR09**	1
Tapered	⅜ in	**3W849**	1
Tapered	⅝ in	**41HR12**	1
Silicon Carbide			
Round Disk	13⁄16 in	**3CY76**	1
Tapered	½ in	**41HR03**	1

Shape	Head Width	Head Length	Item No.	Pkg. Qty.
Carving Bit				
High Speed Steel				
Arrow	¼ in	⅜ in	**21CJ07**	2
Cylinder	⅛ in	¼ in	**21CJ09**	2
Cylinder	5⁄16 in	⅜ in	**21CJ05**	2
Disc	⅜ in	⅜ in	**3W845**	1
Pear	3⁄16 in	3⁄16 in	**21CJ08**	2
Tapered	¼ in	7⁄16 in	**21CJ06**	2
Tungsten Carbide				
Ball	⅛ in	⅛ in	**41HR14**	1
Ball	5⁄16 in	⅛ in	**1UH87**	1
Cylinder	⅛ in	9⁄16 in	**6X194**	1
Cylinder	⅛ in	½ in	**41HR13**	1
Cylinder	5⁄16 in	½ in	**1UH86**	1
Small Taper	¼ in	¾ in	**1UH85**	1
Engraving Bit				
Alloy Steel				
Ball	1⁄32 in	1⁄16 in	**21CJ13**	2
Ball	3⁄32 in	⅛ in	**21CJ04**	2
Diamond				
Point	3⁄32 in	¼ in	**1UH84**	1
Tungsten Carbide				
Point	1⁄32 in	—	**1UH83**	1

Wheel Dia.	Wheel Thickness	Abrasive Material	Mandrel Type	Max. Speed	Item No.	Pkg. Qty.
Cutting Wheels						
Mounted						
1½"	1⁄32"	Reinforced Fiberglass	EZ Lock	35,000 RPM	**1PKX3**	1
3½"	1⁄32"	Diamond	—	20,000 RPM	**38EY50**	1
Unmounted						
⅞"	1⁄32"	Diamond	Standard	20,000 RPM	**1UH72**	1
15⁄16"	1⁄32"	Emery	Screw on	35,000 RPM	**3W841**	36
1¼"	1⁄32"	Reinforced Fiberglass	Screw on	30,000 RPM	**44J150**	20
1½"	1⁄32"	Diamond	EZ Lock	35,000 RPM	**3DRN4**	1
1½"	1⁄16"	Carbide	EZ Lock	35,000 RPM	**3DRN6**	1
1½"	⅛"	Aluminum Oxide	EZ Lock	35,000 RPM	**38EY44**	2
1½"	⅛"	Reinforced Fiberglass	EZ Lock	35,000 RPM	**1PKX6**	12
Flap Wheel						
Mounted						
3⁄16"	3⁄16"	Emery	—	35,000 RPM	**1UH70**	1
1⅛"	⅜"	Emery	—	35,000 RPM	**1UH69**	1
1½"	2"	Emery	Screw on	35,000 RPM	**41HR02**	1

Brush Diameter	Brush Type	Bristle Type	Max. Speed	Item No.	Pkg. Qty.
Wire Brushes					
Abrasive Impregnated Rubber, Mounted					
1 in	Wheel	Straight	15,000 RPM	**5EEV8**	1
Brass, Mounted					
⅛ in	Straight	Straight	15,000 RPM	**45AF64**	2
½ in	Cup	Crimped	15,000 RPM	**45AF57**	2
Carbon Steel, Mounted					
⅛ in	Straight	Straight	15,000 RPM	**45AF65**	2
½ in	Cup	Straight	15,000 RPM	**45AF67**	2
¾ in	Wheel	Straight	15,000 RPM	**45AF58**	2
Nylon, Mounted					
⅛ in	Straight	Straight	15,000 RPM	**45AF56**	2
¾ in	Wheel	Straight	15,000 RPM	**45AF61**	2
1 in	Wheel	Straight	20,000 RPM	**45AF63**	2
Stainless Steel, Mounted					
⅛ in	Straight	Straight	15,000 RPM	**45AF62**	2
¾ in	Wheel	Straight	15,000 RPM	**45AF60**	2

Material	Shape	Head Diameter	Mandrel Type	Item No.	Pkg. Qty.
Abrasive Buff					
Unmounted					
Abrasive Coated Steel	Disc	15⁄16"	EZ Lock	**1PKY1**	2
Abrasive Coated Steel	Disc	15⁄16"	EZ Lock	**1PKY2**	2
Polishing Points					
Unmounted					
Felt	Tapered	⅜"	Threaded Point	**1UH62**	1
Polishing Wheel					
Mounted					
Silicon Carbide Impregnated Felt	Cylinder	½"	—	**45AF55**	2
Unmounted					
Felt	Disc	½"	Threaded Point	**1UH60**	6
Felt	Disc	1"	EZ Lock	**1PKX9**	1

Mandrel Type	Overall Length	Shank Diameter	Item No.	Pkg. Qty.
Chuck				
Keyless	1 ½ in	⅛"	**1UH68**	1
Mandrel				
EZ Lock	3 in	⅛"	**1PKX8**	1
Cutting Wheel	2 ¾ in	⅛"	**3W843**	1
EZ Drum	2 ½ in	⅛"	**34E365**	1
Threaded Point	1 ½ in	⅛"	**1UH57**	1

Abrasive Point
3W849

Carving Bit
6X194

Cutting Wheel
1PKX6

Rotary Rasp
29UH90

Sanding Band
1UH59

Wire Brush
45AF56

Polishing Points
1UH62

Mandrel
3W843

Bit & Attachment Set
5EEV1

Head Width	Head Length	Shank Diameter	Item No.	Pkg. Qty.
Rotary File, Alloy Steel				
¼ in, ½ in	½ in, ⅞ in, 1 in	¼"	**29UJ02**	1
¼ in, ½ in	½ in, ⅞ in, 1 in	¼"	**29UJ06**	1
Rotary Rasp, Alloy Steel				
⅝ in	1 ⅛ in	⅝"	**29UH90**	1
⅝ in	1 ⅛ in, 1 ⅜ in	¼"	**29UJ04**	1

Drum Diameter	Grit	Mandrel Type	Item No.	Pkg. Qty.
Sanding Band, Aluminum Oxide				
¼ in	120	Slide on Fit	**41HP98**	6
½ in	60	Slide on Fit	**1UH59**	6
½ in	120	Slide on Fit	**1UH65**	6
Sanding Drum, Aluminum Oxide				
½ in	60	—	**1UH58**	1
1 ½ in	50,-80,-120,-180	Round Shank	**29UH99**	1

No. of Pieces	Includes	Shank Diameter	Max. Speed	Item No.	Pkg. Qty.
Bit and Attachment Set					
3	2-Drywall-Bits-and-1-Spiral-Cutting-Bit	⅛ in	35,000 RPM	**1UH73**	1
70	1½"-Carbide-Cutting-Wheel,-1-1/2"-Diamond-Cutting-Wheel,-Lock-Mandrel,-(2)-1-1/2"-Plastic-Cut-Off-Wheel,-(4)-1-1/2"-Metal-Cut-Off-Wheel,-1-1/4"-Drum-Sanding-Mandrel,-(6)-1-1/14"-Sanding-Disc-60-Grit,-(20)-1/2"-60-Grit-Sanding-Band,-(20)-1/2"-120-Grit-Sanding-Band,-(6)-1-1/4"-Sanding-Disc-240-Grit,-(3)-1-1/2"-EZ-Lock-Thin-Cut-Wheel,-Lock-Finishing-Abrasive-Buffs-(180⁄280-Grit),-Lock-Finishing-Abrasive-Buff-(320-Grit),-(3)-Lock-Polishing-Cloth-Wheel	⅛ in	35,000 RPM	**39FV52**	1
75	(-20)-HD-And-Fiberglass-Cut-Off-Wheels,-(6)-1/2-and-(4)-1"-Felt-Polishing-Wheel-(4)-1/2-Sanding-Band-(12)-Coarse-Sanding-Discs-(12)-Fine-Sanding-Discs-1-Ea-Polishing-Compound,-3/4-Carbon-Steel-Brush,-1-1/4-Cut-Off-Wheel-3/8-And-5/8-Aluminum-Oxide-Stone,-25/32-Silicone-Carbide-Stone,-60-Grit-Sanding-Drum-&-Mandrel,-1/2-Fine-Sanding-Band,-HSS-Cutter,-1/8-Drill-Bit,-402-Mandrel-And-(2)-401-Mandrels	⅛ in	35,000 RPM	**3DRN3**	1
160	Everything-You-Need-To-Cut,-Grind,-Sand,-Polish,-Sharpen-And-Clean	⅛ in	35,000 RPM	**5EEV1**	1

Scan. Order. Done.
Details on page A1.

38D259

Nibblers

Capacity Steel	Capacity Stainless Steel	Minimum Cutting Radius	Swivel Angle	Maximum Strokes per Minute	Brand	Item No.
6 ga	13 ga	3 ½ in	270 °	750	Fein	**21VH81**
10 ga	12 ga	2 ½ in	0 °	1,000	Milwaukee	**38D259**
	13 ga	4 ¾ in	—	1,300	Makita	**44YV59**
	14 ga	¼ in	270 °	750	Fein	**21VH80**
16 ga	18 ga	1 ¾ in	0 °	1,900	Milwaukee	**38D260**
	18 ga	1 ¾ in	360 °	2,200	Makita	**1GUB5**
	22 ga	1 ¼ in	360 °	1,500	Fein	**61KL94**
18 ga	24 ga	½ in	360 °	1,800	Fein	**21VH79**

Scroll-Cut
46AD52

Shears

- Primary material application: sheet metal

Capacity Steel	Capacity Stainless Steel	Minimum Cutting Radius	Swivel Angle	Waste Curl	Maximum Strokes per Minute	Brand	Item No.
Double-Cut Shears for Straight Cuts							
18 ga	20 ga	5½"	—	—	2,500	DeWalt	**4LF09**
18 ga	20 ga	6"	360 °	⅛ in	2,500	Makita	**14F138**
18 ga	20 ga	7"	360 °	13⁄64 in	2,500	Milwaukee	**2WA31**
Scroll-Cut Shears							
10 ga	13 ga	2"	0 °	—	1,600	Makita	**46AD52**
13 ga	16 ga	¾"	360 °	—	1,700	Fein	**20UR17**
14 ga	16 ga	¾"	0 °	—	4,000	Milwaukee	**6Z359**
16 ga	18 ga	½"	0 °	—	4,000	Milwaukee	**6Z047**
16 ga	18 ga	1 3⁄16"	0 °	—	4,000	Makita	**45L123**
16 ga	19 ga	½"	360 °	—	4,800	Fein	**20UR16**
Single-Cut Shears for Curved Cuts & Corrugated Metal							
16 ga	18 ga	1¼"	360 °	3⁄16 in	4,500	Fein	**54FH32**

Hacksaw
10E998

Hacksaw

Cuts pipe, profiles, and beams made of steel, cast iron, concrete, and plastic with use of clamps. 110V. Variable speed.

Strokes per Minute	Stroke Length	Voltage	Current	Tool Weight (lb.)	Item No.
Hacksaw					
100 to 350	2 ⅜ in	120V AC	6.3 A	14.1 lb	**10E998**

L	For Max. Diameter	Teeth per Inch	Tip Material	Item No.
Power Hacksaw Blades for Cast Iron, Cement Cladding				
12"	6 ⅝ in	—	Carbide Grit	**10F021**
16"	10 ¼ in	—		**10F022**
24"	17 ¼ in	—		**10F024**
Power Hacksaw Blades for Cast Iron, Non-Ferrous Alloys, Steel				
8"	3 ⅛ in	16	Metal	**10F004**
	3 ½ in	24		**10F005**
12"	6 ⅝ in	12		**10F007**
	6 ⅝ in	16		**38TC58**
16"	10 ¼ in	8		**10F009**
	10 ¼ in	16		**10F008**
20"	13 ¾ in	16		**38TC59**
21"	14 ¾ in	12		**10F010**
24"	17 ¼ in	14		**10F012**
30"	24 in	12		**10F013**
37"	31 in	12		**10F014**
Power Hacksaw Blades for Ductile Cast Iron, Non-Ferrous Alloys				
13"	6 ⅝ in	10	Boron	**10F019**
19¼"	13 ¾ in	17		**10F020**
Power Hacksaw Blades for Stainless Steel				
12"	6 ⅝ in	16	Metal	**10F006**

Demolition
Makita
48XT76

General Purpose
Bosch
12F747

General Purpose
Dewalt
39RV94

General Purpose
Milwaukee
5HXL7

General Purpose
Porter Cable
49EN16

General Purpose
Skilsaw
451G46

Corded Reciprocating Saws

- 120VAC

Feature keyless blade clamp and rubber boot for superior gripping and operator comfort. Used in construction and demolition work to make fast, aggressive cuts in wood, metal, and nail-embedded wood. Corded reciprocating saws have longer run times and generally have more power than battery-operated tools. They are used in demolition, construction, metalworking, and other applications where precision is unimportant. Interchangeable blades are used to cut specific workpiece materials, such as wood or metal.

Current	Stroke Length	Max. Strokes per Minute	Stroke Type	Adjustable Shoe	Vibration Reduction	Includes	Cord Length	Item No.
Demolition								
Makita								
15 A	1 ¼ in	2800	Orbital, Straight	Yes	Yes	6 in Saw Blade, 6 in Reciprocating Saw Blade, Tool case	4 ft 6 in	**48XT76**
Skilsaw								
15 A	1 ¼ in	2900	Orbital	No	Yes	—	8 ft	**451G47**
General Purpose								
Bosch								
12 A	1 in	2800	Orbital	No	Yes	(1) Carrying Bag, (1) Reciprocating All Purpose Saw Blade	8 ft	**6YHT2**
14 A	1 ⅛ in	2900	Orbital	Yes	Yes		8 ft	**12F747**
DeWalt								
10 A	1 ⅛ in	2,800	Straight	No	No	Instruction Manual	6 ft	**39RV94**
12 A	1 ⅛ in	2,900	Straight	No	No	—	6 ft	**30RV83**
12 A	1 ⅛ in	3,000	Orbital	Yes	No	Heavy-Duty Kit Bag, Instruction Manual	6 ft 10 in	**38A921**
Milwaukee								
12 A	¾ in	3,000	Straight	No	Yes	Carrying Case, Sawzall(R) Recip Saw	8 ft	**5HXL6**
12 A	1 ⅛ in	3,000	Straight	Yes	Yes		8 ft	**5HXL7**
15 A	1 ¼ in	2,800	Orbital	Yes	Yes		10 ft	**2CDC9**
Porter Cable								
7.5 A	1 ⅛ in	3,200	Straight	Yes	No	Reciprocating Saw, Wood Cutting Blade	6 ft	**49EN16**
8.5 A	1 ⅛ in	3,200	Orbital	Yes	No	(1) Kit Box, (1) Wood Cutting Blade, Orbital Reciprocating Saw	6 ft	**34G838**
Skilsaw								
13 A	1 ⅛ in	3200	Straight	No	Yes	—	8 ft	**451G46**

Bi-Metal Tipped,
Bi-Metal Blade Material
1Y250

General Purpose Reciprocating Saw Blades

- One cutting edge
- Rigid for straight cuts
- Bi-Metal Tip Material

These blades are used to make aggressive cuts in sheet metal, wood, and other materials that are used in maintenance, metal fabrication, and demolition tasks. They are used with corded and cordless reciprocating saws.

Teeth per Inch	Blade Length	H	Cut Width	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Blade Material							
5, 14, 18, 12	1 in	¾ in	0.05 in	Straight	Milwaukee	2RFR6	1
7/11	6 in	1 in	0.062 in	Tapered	Milwaukee	5LY50	5
8/12	12 in	¾ in	0.05 in	Straight	Milwaukee	1Y253	50
8/12	12 in	¾ in	0.069 in	Tapered	Westward	24A565	5
8/12	6 in	¾ in	0.05 in	Straight	Milwaukee	2AC14	5
8/12	6 in	¾ in	0.05 in	Tapered	Milwaukee	1Y250	50
8/12	8 in	¾ in	0.05 in	Straight	Milwaukee	2AC16	5
8/12	8 in	¾ in	0.05 in	Straight	Milwaukee	1Y252	50
8/14	9 in	1 in	0.049 in	Curved, Straight	Diablo	49XZ96	25
10	6 in	¾ in	0.035 in	Straight	LENOX	4XL11	5
10	8 in	¾ in	0.035 in	Straight	LENOX	4XL18	5
10/14	12 in	⅝ in	0.035 in	Straight	Milwaukee	1BV19	5
10/14	12 in	¾ in	0.05 in	Straight	LENOX	4XL20	5
10/14	8 in	⅝ in	0.035 in	Straight	Milwaukee	1BV18	5
14, 24, 8/12, 10, 18, 5, 5, 7/11	6 in, 8 in, 9 in	¾ in, 1 in	—	Straight, Tapered	Milwaukee	6MPJ5	1
Steel Blade Material							
6, 10, 18, 24	6 in, 8 in, 9 in	¾ in, ⅞ in	0.035 in, 0.042 in, 0.05 in	Straight	LENOX	53DN70	1

Bi-Metal Tipped
Bi-Metal Blade
Material
49YA05

Demolition Reciprocating Saw Blades

- Rigid for straight cuts

Saw blades are used with corded and cordless reciprocating saws for demolition tasks such as cutting wood, metal, fiber-board, and other composites.

Teeth per Inch	Blade Length	H	Cut Width	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
6	6 in	⅞ in	0.062 in	Straight	LENOX	4YFX4	5
6	12 in	1 in	0.05 in	Straight	LENOX	53DN79	25
7/11	6 in	1 in	0.062 in	Tapered	Milwaukee	5LY53	25
7/11	9 in	1 in	0.062 in	Straight	Milwaukee	5LY54	25
7/11	9 in	1 in	0.062 in	Straight	Milwaukee	5LY51	5
7/11	12 in	1 in	0.062 in	Straight	Milwaukee	5LY55	25
7/11	12 in	1 in	0.062 in	Straight	Milwaukee	5LY52	5
10	9 in	⅞ in	0.062 in	Straight	LENOX	5YN27	2
10	9 in	⅞ in	0.062 in	Straight	LENOX	4YFX6	5
14/18	6 in	1 in	0.043 in	Straight	Diablo	49YA04	25
14/18	9 in	1 in	0.043 in	Curved, Straight	Diablo	49YA05	25
14/18	12 in	1 in	0.043 in	Curved, Straight	Diablo	49YA06	25
Bi-Metal Tipped Kit							
Bi-Metal Blade Material							
14/18, 8/14, 6/12, 10/14	6 in, 9 in	1 in	0.035 in, 0.049 in, 0.063 in	Curved, Straight	Diablo	49YA16	1
18, 5, 7/11, 14, 5	6 in, 9 in	1 in	0.05 in	Straight, Tapered	Milwaukee	2VJ50	1
Steel Blade Material							
6, 10, 14	6 in, 9 in	⅞ in, 1 in	0.035 in, 0.042 in, 0.05 in, 0.062 in	Straight	LENOX	36C276	1
Carbide Tipped							
Bi-Metal Blade Material							
5/7	6 in	1 in	0.049 in	Straight	Diablo	49XZ73	3
5/7	9 in	1 in	0.049 in	Straight	Diablo	49XZ74	3
5/7	12 in	1 in	0.049 in	Straight	Diablo	49XZ75	3
Carbide Blade Material							
6	9 in	1 in	0.05 in	Straight	LENOX	422V95	5

Carbide Tipped,
Bi-Metal Blade Material
499L11

Nail-Embedded Wood Reciprocating Saw Blades

These reciprocating blades make aggressive cuts in nail-embedded wood as well as a mixture of wood and light metal, such as walls and wood-framed partitions. They are used in corded and cordless saws.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
5	6 in	1 in	0.062 in	Rigid	Tapered	Milwaukee	6MR68	25
5	6 in	¾ in	0.05 in	Rigid	Tapered	Milwaukee	1BV06	5
5	9 in	1 in	0.062 in	Rigid	Tapered	Milwaukee	3LC91	5
5	9 in	1 in	0.062 in	Rigid	Tapered	Milwaukee	6MR73	25
5	9 in	¾ in	0.035 in	Rigid	Tapered	Milwaukee	1Y248	50
5	12 in	1 in	0.062 in	Rigid	Tapered	Milwaukee	3LC92	5
5	12 in	1 in	0.062 in	Rigid	Tapered	Milwaukee	6MR74	25
14	6 in	1 in	0.042 in	Rigid	Straight	Milwaukee	4WP13	5
14	6 in	1 in	0.042 in	Rigid	Straight	Milwaukee	6MR72	25
14	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	2AC19	5
14	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	1Y254	50
14	6 in	¾ in	0.035 in	Rigid	Straight	LENOX	4XL12	5
14	8 in	¾ in	0.035 in	Rigid	Straight	LENOX	4YGA2	5
14	9 in	1 in	0.042 in	Rigid	Straight	Milwaukee	4WP15	5
14	9 in	1 in	0.042 in	Rigid	Straight	Milwaukee	6MR78	25
14	9 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	1BV15	5
14	12 in	1 in	0.042 in	Rigid	Straight	LENOX	4YFX2	5
Carbide Tipped								
Bi-Metal Blade Material								
14/18	12 in	2 in	0.035 in	Rigid	Straight	Bosch	499L10	5
14/18	12 in	15/16 in	0.035 in	Rigid	Straight	Bosch	499L11	1

Diamond Grit,
High Speed Steel
Blade Material
499L07

Tile and Masonry Reciprocating Saw Blades

These tile and masonry blades for corded and cordless reciprocating saws have a cutting edge made from abrasive-grit particles to cut aggressively and quickly through masonry, tile, and other hard, abrasive materials.

Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
4 in	¾ in	0.05 in	Rigid	Straight	Milwaukee	2RFN8	3
Carbide Grit							
Bi-Metal Blade Material							
8 in	¾ in	0.04 in	Flexible	Straight	LENOX	5YN23	2
High Speed Steel Blade Material							
9 in	¾ in	0.05 in	Rigid	Straight	Bosch	499L08	1
Steel Blade Material							
6 in	⅝ in	0.032 in	Flexible	Tapered	LENOX	21Y677	2
10 in	¾ in	0.05 in	Flexible	Straight	LENOX	21Y653	2
Tungsten Carbide Blade Material							
6 in	¾ in	0.039 in	Rigid	Straight	Milwaukee	1XEL3	50
9 in	¾ in	0.039 in	Rigid	Straight	Milwaukee	1Y230	3
9 in	¾ in	0.039 in	Rigid	Straight	Milwaukee	1XEL4	50
Diamond Grit							
High Speed Steel Blade Material							
9 in	¾ in	0.04 in	Rigid	Straight	Bosch	499L07	1
Steel Blade Material							
6 in	1 in	0.042 in	Rigid	Straight	Milwaukee	4FTH4	1
8 in	¾ in	0.04 in	Rigid	Straight	LENOX	2JGA1	1
9 in	¾ in	0.042 in	Rigid	Straight	LENOX	6UUG9	1
9 in	1 in	0.042 in	Rigid	Straight	Milwaukee	4FTH5	1
11 in	¾ in	0.042 in	Rigid	Straight	LENOX	6UUG8	1

Scan. Order. Done.
Details on page A1.

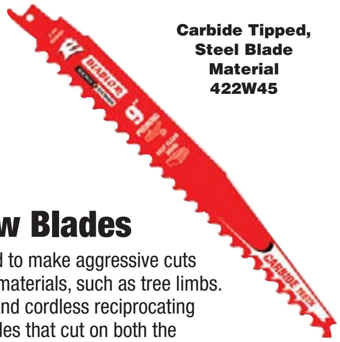
Carbide Tipped,
Steel Blade Material
54EP99

Thick Metal Reciprocating Saw Blades

- Straight back style

These reciprocating saw blades cut thick metal 3⁄16" and over. They are used with corded and cordless saws, and have a lower teeth per inch (TPI) than blades designed for cutting thinner metals to prevent the blade from clogging, which can cause the cutting to stop or affect cut quality.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
10	4 in	¾ in	0.035 in	Flexible	Milwaukee	**1BV09**	5
10	6 in	¾ in	0.035 in	Flexible	Milwaukee	**2AC15**	5
10	6 in	¾ in	0.035 in	Flexible	Milwaukee	**1Y251**	50
10	6 in	1 in	0.042 in	Rigid	Milwaukee	**6MR66**	25
10	6 in	1 in	0.042 in	Rigid	Milwaukee	**4WP11**	5
10	9 in	1 in	0.042 in	Rigid	Milwaukee	**6MR77**	25
10	9 in	1 in	0.042 in	Rigid	LENOX	**21Y665**	5
12/16	12 in	1 in	0.042 in	Rigid	LENOX	**492R80**	25
Carbide Tipped							
Carbide Blade Material							
7	6 in	1 in	0.05 in	Rigid	Milwaukee	**54ER03**	5
7	9 in	1 in	0.05 in	Rigid	Milwaukee	**54ER01**	1
7	9 in	1 in	0.05 in	Rigid	Milwaukee	**54ER04**	5
Steel Blade Material							
7	6 in	1 in	0.05 in	Rigid	Milwaukee	**54EP99**	1
8	6 in	1 in	0.049 in	Rigid	Diablo	**49XZ61**	1
8	6 in	1 in	0.049 in	Rigid	Diablo	**49XZ70**	3
8	9 in	1 in	0.049 in	Rigid	Diablo	**49XZ62**	1
8	9 in	1 in	0.049 in	Rigid	Diablo	**49XZ71**	3
8	9 in	1 in	0.05 in	Rigid	LENOX	**411M26**	5
8	12 in	1 in	0.049 in	Rigid	Diablo	**49XZ63**	1



Carbide Tipped,
Steel Blade
Material
422W45

Wood & Pruning Reciprocating Saw Blades

Wood and pruning blades are used to make aggressive cuts through wood without embedded materials, such as tree limbs. These blades are used in corded and cordless reciprocating saws, and have fleam-ground blades that cut on both the extension and retraction movement to speed cutting.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
4	6 in	¾ in	0.05 in	Rigid	Tapered	LENOX	**36C229**	5
5	6 in	¾ in	0.05 in	Rigid	Tapered	Milwaukee	**6CFC6**	50
5	9 in	¾ in	0.05 in	Rigid	Tapered	Milwaukee	**2AC12**	5
5	9 in	1 in	0.049 in	Flexible	Tapered	Milwaukee	**5TJE6**	5
5	9 in	1 in	0.049 in	Rigid	Curved, Straight	Diablo	**49XZ81**	5
5	12 in	1 in	0.06 in	Flexible	Tapered	Milwaukee	**5TJE7**	5
6	6 in	¾ in	0.042 in	Rigid	Tapered	Milwaukee	**4TR34**	5
6	6 in	¾ in	0.05 in	Flexible	Straight	LENOX	**4XL15**	5
6	6 in	¾ in	0.05 in	Rigid	Curved	LENOX	**1PMB7**	5
6	9 in	¾ in	0.042 in	Rigid	Tapered	Milwaukee	**4TR35**	5
6	9 in	¾ in	0.05 in	Rigid	Straight	LENOX	**4XL19**	5
6	9 in	¾ in	0.05 in	Rigid	Straight, Tapered	LENOX	**4YFY9**	25
6	9 in	¾ in	0.069 in	Rigid	Tapered	Westward	**24A551**	5
6	12 in	¾ in	0.042 in	Rigid	Tapered	Milwaukee	**4TR36**	5
6	12 in	¾ in	0.05 in	Rigid	Curved	LENOX	**1PMC4**	5
6	12 in	¾ in	0.05 in	Rigid	Tapered	LENOX	**4XL21**	5
6	12 in	¾ in	0.069 in	Rigid	Tapered	Westward	**24A552**	5
18	6 in	1 in	0.057 in	Rigid	Tapered	Westward	**24A574**	5
Carbide Tipped								
Carbide Blade Material								
5	6 in	1 in	0.05 in	Rigid	Tapered	Milwaukee	**54FH97**	5
5	9 in	1 in	0.05 in	Rigid	Tapered	Milwaukee	**49EM19**	1
5	9 in	1 in	0.05 in	Rigid	Tapered	Milwaukee	**54FH98**	5
5	12 in	1 in	0.05 in	Rigid	Tapered	Milwaukee	**54FH99**	5
Steel Blade Material								
3	9 in	1 in	0.049 in	Rigid	Straight, Tapered	Diablo	**422W45**	3

Carbide Tipped
Steel Blade
Material
49XZ67

Thin Metal Reciprocating Saw Blades

Reciprocating saw blades cut 1⁄8" and thinner metal. These blades are used with corded and cordless saws to aggressively and quickly cut through thin metal without grabbing the material and causing vibration.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Brand	Item No.	Pkg. Qty.
Bi-Metal Tipped								
Bi-Metal Blade Material								
8/12	8 in	¾ in	0.069 in	Rigid	Straight	Westward	**24A579**	5
14, 18, 24	6 in, 9 in	¾ in, 1 in	0.035 in	Rigid	Straight	Milwaukee	**786ZK3**	1
18	3 ⅝ in	5⁄16 in	0.035 in	Flexible	Straight	LENOX	**4XL07**	5
18	4 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**1BV13**	5
18	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**2AC20**	5
18	6 in	1 in	0.035 in	Rigid	Straight	LENOX	**4GE30**	5
18	6 in	1 in	0.042 in	Rigid	Straight	Milwaukee	**6MR67**	25
18	6 in	1 in	0.042 in	Rigid	Straight	Milwaukee	**4WP14**	5
18	8 in	¾ in	0.035 in	Rigid	Curved	LENOX	**4YFZ7**	25
18	8 in	¾ in	0.035 in	Rigid	Curved	LENOX	**1PMC1**	5
18	8 in	¾ in	0.035 in	Rigid	Straight	LENOX	**4YFX9**	25
18	8 in	¾ in	0.035 in	Rigid	Straight	LENOX	**4XL17**	5
18	9 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**1BV16**	5
18	9 in	1 in	0.035 in	Rigid	Straight	LENOX	**4YFX1**	25
18	9 in	1 in	0.035 in	Rigid	Straight	LENOX	**4GE34**	5
18	12 in	¾ in	0.035 in	Rigid	Straight	LENOX	**4YGA1**	5
18	12 in	1 in	0.042 in	Rigid	Straight	Milwaukee	**6MR80**	25
18	12 in	1 in	0.042 in	Rigid	Straight	Milwaukee	**4WP17**	5
20/24	9 in	1 in	0.035 in	Rigid	Curved, Straight	Diablo	**49YA01**	25
24	4 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**1BV14**	5
24	4 in	¾ in	0.035 in	Rigid	Curved	LENOX	**1PMB2**	5
24	4 in	¾ in	0.035 in	Rigid	Straight	LENOX	**21Y658**	5
24	4 in	¾ in	0.05 in	Flexible	Straight	Milwaukee	**2RFR4**	5
24	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**6MR65**	25
24	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**2AC21**	5
24	6 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**1Y256**	50
24	6 in	¾ in	0.035 in	Rigid	Curved	LENOX	**4YFZ8**	25
24	6 in	¾ in	0.035 in	Rigid	Curved	LENOX	**1PMB6**	5
24	6 in	¾ in	0.035 in	Rigid	Tapered	LENOX	**4YFY5**	25
24	6 in	¾ in	0.05 in	Rigid	Straight	LENOX	**4XL14**	5
24	8 in	¾ in	0.035 in	Rigid	Curved	LENOX	**4YFZ9**	25
24	8 in	¾ in	0.035 in	Rigid	Straight	LENOX	**4YFZ1**	5
Steel Blade Material								
18	6 in	1 in	0.035 in	Flexible	Straight	Milwaukee	**6MR71**	25
18	6 in	1 3⁄16 in	0.035 in	Rigid	Straight	LENOX	**53DN93**	50
18	12 in	¾ in	0.035 in	Flexible	Straight	Milwaukee	**1BV36**	50
18	12 in	¾ in	0.035 in	Rigid	Straight	LENOX	**53DN91**	25
24	6 in	1 in	0.035 in	Rigid	Straight	Milwaukee	**45L166**	5
24	12 in	1 in	0.035 in	Rigid	Straight	Milwaukee	**45L168**	5
30	3 ¼ in	5⁄16 in	0.04 in	Rigid	Straight	Milwaukee	**45L169**	5
Carbide Tipped								
Steel Blade Material								
20	6 in	1 in	0.039 in	Rigid	Straight	Diablo	**49XZ67**	1
20	8 in	1 in	0.039 in	Rigid	Straight	Diablo	**49XZ68**	1

Bi-Metal Tipped,
Steel Blade Material
45L170

Drywall and Plaster Reciprocating Saw Blades

Drywall and plaster blades for corded and cordless reciprocating saws are built with widely-spaced teeth to prevent plaster and other particles from clogging the blade.

Teeth per Inch	Blade Length	H	Cut Width	Cutting Edge Style	Back Style	Item No.	Pkg. Qty.
Bi-Metal Tipped							
Bi-Metal Blade Material							
5	12 in	2 ⅛ in	0.2 in	Rigid	Tapered	**11C558**	1
6	4 in	¾ in	0.05 in	Flexible	Tapered	**2RFP3**	5
6	5 in	¾ in	0.05 in	Rigid	Tapered	**1BV08**	5
10	3 ⅝ in	5⁄16 in	0.035 in	Rigid	Tapered	**1BV10**	5
14	4 in	¾ in	0.05 in	Flexible	Straight	**2RFP7**	5
14	6 in	¾ in	0.05 in	Flexible	Straight	**2RFP9**	5
Steel Blade Material							
6	2 ½ in	5⁄16 in	0.04 in	Rigid	Tapered	**45L170**	1

Jigsaws

Make straight and curved cuts in lumber, walls, floors, and ceilings. The narrow, straight blade allows users to cut curves and join corners more accurately than other handheld saws.

Current	Max. Strokes per Minute	Stroke Length	Bevel Angle Range	Brand	Item No.
Barrel Grip					
T-Shank					
7.0 A	3,100	1 in	0°Left to 45° Right	Bosch	**44J823**
7.2 A	3,000	1 in	0°Left to 45° Right	Bosch	**48XY66**
Top Handle					
T-Shank					
6.0 A	3,100	¾ in	0°Left to 45° Right	Bosch	**6YHT1**
6.5 A	3,100	1 in	0°Left to 45° Right	Bosch	**6YHT0**
6.5 A	3,100	1 1⁄32 in	45° Left to 45° Right	DeWalt	**32ZU44**
7.0 A	3,100	1 in	0°Left to 45° Right	Bosch	**6YHR9**
7.2 A	3,000	1 in	0°Left to 45° Right	Bosch	**45CR53**
T-Shank, U-Shank					
6.0 A	3,200	13⁄16 in	0°Left to 45° Right	Porter Cable	**30RW07**
6.5 A	3,000	25⁄32 in	45° Left to 45° Right	Westward	**21A466**

Barrel Grip T-Shank 48XY66

Top Handle T-Shank 32ZU44

Top Handle T-Shank, U-Shank 30RW07

Teeth per Inch	Blade Length	Tip Material	Blade Material †	Cutting Edge Style	Brand	Item No.	Pkg. Qty.	
Jigsaw Blades for Metal								
Aluminum								
8	4 in	Metal	Bi-Metal	Rigid	LENOX	**55KJ16**	5	
Aluminum & Soft Metals								
8	4 ⅝ in	Metal	HCS	Flexible/Rigid	BOSCH	**44J747**	100	
8	4 ¼ in	Metal	HCS	Rigid	BOSCH	**1UM23**	5	
18	2 ¾ in	Metal	HSS	Rigid	SKIL	**44J691**	2	*
General Metal								
10/14	3 ⅛ in	Metal	Bi-Metal	Flexible/Rigid	BOSCH	**4WZ97**	5	*
10/24	4 in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ87**	3	
10/24	4 in	Metal	HSS	Rigid	BOSCH	**44J741**	5	
10/24	4 in	Metal	HSS	Rigid	BOSCH	**44J742**	100	
11/14	3 ⅝ in	Metal	Bi-Metal	Flexible/Rigid	BOSCH	**4WZ85**	5	
11/14	3 ⅝ in	Metal	Bi-Metal	Flexible/Rigid	BOSCH	**4WZ96**	5	*
11/14	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**1UM20**	5	
11/14	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**44J729**	100	
12	3 ⅝ in	Metal	HCS	Rigid	BOSCH	**44J739**	3	
14	5 ¼ in	Metal	HSS	Rigid	BOSCH	**1UM26**	5	
14/18	3 ⅝ in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ86**	5	
14/18	3 ⅝ in	Metal	HSS	Flexible	BOSCH	**44J733**	100	
14/18	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**44J732**	5	
17/24	2 ¾ in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ95**	5	*
17/24	3 ⅝ in	Metal	Bi-Metal	Flexible/Rigid	BOSCH	**44J755**	5	
17/24	3 ⅝ in	Metal	HCS	Flexible	BOSCH	**44J727**	100	
17/24	3 ⅝ in	Metal	HCS	Rigid	BOSCH	**1UM19**	5	
17/24	3 ⅛ in	Metal	HCS	Rigid	BOSCH	**1UM29**	5	*
17/24	3 ⅝ in	Metal	HCS	Rigid	BOSCH	**44J725**	100	
17/24	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**44J726**	3	
21	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**44J738**	3	
24	5 ¼ in	Metal	HCS	Rigid	BOSCH	**1UM25**	5	
30	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**44J740**	3	
36	2 ¾ in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ98**	5	*
36	3 ⅝ in	Metal	Bi-Metal, HCS, HSS	Rigid	BOSCH	**3UVY2**	5	
Stainless Steel								
14	3 ¼ in	Carbide Tipped	HSS	Flexible	BOSCH	**44J736**	3	
18	3 ¼ in	Carbide Tipped	Carbon Steel	Rigid	LENOX	**55KJ25**	1	
18	3 ¼ in	Metal	HSS	Rigid	BOSCH	**44J734**	5	
24	3 ¼ in	Carbide Tipped	Bi-Metal	Rigid	BOSCH	**6YB17**	1	
24	3 ¼ in	Carbide Tipped	HCS	Flexible	BOSCH	**44J728**	3	
36	3 ¼ in	Metal	HCS	Rigid	BOSCH	**3DRP4**	5	
Steel								
14	3 ⅝ in	Metal	Bi-Metal	Rigid	LENOX	**55KJ17**	3	
18	3 ⅝ in	Metal	Bi-Metal	Rigid	LENOX	**55KJ18**	3	
24	3 ⅝ in	Metal	Bi-Metal	Rigid	LENOX	**55KJ19**	3	
32	3 ⅝ in	Metal	Bi-Metal	Rigid	LENOX	**55KJ15**	5	
Jigsaw Blades for Nail-Embedded Wood								
Nail-Embedded Wood								
5/7	5 ⅛ in	Carbide Tipped		Flexible/Rigid	BOSCH	**494C62**	1	
5/7	5 ⅛ in	Carbide Tipped	Carbide	Flexible/Rigid	BOSCH	**494C63**	3	
5/10	4 ⅛ in	Metal	HCS	Rigid	BOSCH	**4XD07**	3	*
5/10	5 ¼ in	Metal	HCS	Flexible/Rigid	BOSCH	**44J775**	5	
Jigsaw Blades for Plastic & Laminates								
Laminates								
14	2 ½ in	Carbide Tipped	Carbide	Rigid	BOSCH	**494C64**	1	
14	2 ½ in	Carbide Tipped	Carbide	Rigid	BOSCH	**494C65**	3	
20	3 ¼ in	Metal	HCS	Flexible	BOSCH	**44J711**	5	
Plastic								
6	4 in	Carbide Tipped	Carbide	Rigid	BOSCH	**6YB19**	1	
6	4 in	Metal	HCS	Rigid	BOSCH	**44J718**	3	
6	5 ¼ in	Carbide Tipped	Carbide	Rigid	BOSCH	**6YB23**	1	
8	3 ½ in	Carbide Tipped	Carbide	Rigid	BOSCH	**6YB22**	1	
12	3 ⅝ in	Carbide Tipped	HCS	Rigid	BOSCH	**44J721**	3	
14	4 in	Metal	Bi-Metal	Flexible	BOSCH	**44J708**	3	
14	4 in	Metal	HCS	Flexible	BOSCH	**1UM14**	5	
Jigsaw Blades for Tile & Masonry								
Acrylic								
Grit	3 ½ in	Carbide Grit	Carbon Steel	Rigid	LENOX	**55KJ21**	1	
Grit	3 ½ in	Carbide Grit	Carbon Steel	Rigid	LENOX	**55KJ22**	5	
Grit	3 ½ in	Diamond Grit	Carbon Steel	Rigid	LENOX	**55KJ20**	1	
Ceramics								
30 Grit	3 ¼ in	Carbide Grit	Carbide	Rigid	BOSCH	**6YB18**	1	
Fiber Cement								
6	4 in	Carbide Tipped	Carbon Steel	Rigid	LENOX	**55KJ26**	1	
Masonry								
30 Grit	3 ¼ in	Diamond Grit	Bi-Metal	Rigid	BOSCH	**5JLU0**	1	
Jigsaw Blades for Wood								
Wood								
5/6	4 in	Metal	HCS	Rigid	BOSCH	**4XD02**	5	*
5/6	4 in	Metal	HCS	Rigid	BOSCH	**44J715**	100	
5/6	4 in	Metal	HSS	Flexible	BOSCH	**1UM24**	5	
5/6	4 in	Metal	HSS	Rigid	BOSCH	**4WZ88**	5	
5/6	4 in	Metal	HSS	Rigid	BOSCH	**44J749**	100	
6	3 ⅛ in	Metal	HSS	Rigid	SKIL	**44J692**	2	*

Jigsaw Blades for Wood T-Shank 4XD02

Jig Saw Blades for Wood T-Shank 4WZ90

Blade Sets T-Shank 45HR52

Jigsaw Blades

- Flexible edge style for curved cuts
- Rigid edge style for straight cuts
- T Shank except where noted *

Teeth per Inch	Blade Length	Tip Material	Blade Material †	Cutting Edge Style	Brand	Item No.	Pkg. Qty.	
6	4 in	Metal	HCS	Flexible	BOSCH	**44J759**	3	
6	4 in	Metal	HCS	Rigid	BOSCH	**44J750**	3	
6	4 in	Metal	HCS	Rigid	BOSCH	**44J716**	5	
6	6 in	Metal	Carbide	Rigid	BOSCH	**6YB24**	5	
8	3 in	Metal	Bi-Metal	Flexible/Rigid	BOSCH	**4WZ89**	5	
8	4 in	Metal	HCS	Flexible	WESTWARD	**24A511**	5	
8	4 in	Metal	HCS	Rigid	BOSCH	**1UM18**	5	
8	4 in	Metal	HSS	Flexible	BOSCH	**44J723**	3	
8	4 ⅝ in	Metal	HSS	Flexible/Rigid	BOSCH	**44J760**	5	
8/12	4 ½ in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ90**	3	
8/12	4 ¼ in	Metal	Bi-Metal	Rigid	BOSCH	**4XD05**	3	*
10	3 ⅝ in	Metal	HSS	Rigid	BOSCH	**1UM27**	5	*
10	4 in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ82**	5	
10	4 in	Metal	Bi-Metal	Rigid	BOSCH	**4WZ94**	5	*
10	4 in	Metal	CVS	Flexible	SPYDER	**35XN33**	2	*
10	4 in	Metal	CVS	Rigid	SPYDER	**19TC08**	1	
10	4 in	Metal	HCS	Rigid	BOSCH	**44J713**	3	
10	4 in	Metal	HCS	Rigid	BOSCH	**1UM16**	5	
10	4 in	Metal	HCS	Rigid	BOSCH	**44J714**	100	
10	4 in	Metal	HSS	Rigid	BOSCH	**3UVY7**	5	
10	4 in	Metal	HSS	Rigid	BOSCH	**44J712**	100	
10/12	4 in	Metal	CVS	Rigid	SPYDER	**19TC09**	1	
12	2 ¾ in	Metal	HSS	Flexible	BOSCH	**1UM34**	5	*
12	3 ¼ in	Metal	HSS	Flexible	BOSCH	**44J737**	3	
12	3 ¼ in	Metal	HSS	Flexible	BOSCH	**1UM21**	5	
12	4 in	Metal	CVS	Rigid	SPYDER	**19TC10**	1	
12	4 ½ in	Metal	HCS	Rigid	BOSCH	**3DRP3**	5	
14, 20	3 ½ in	HSS	Bi-Metal	Rigid	LENOX	**55KJ28**	3	
20	2 ¾ in	Metal	HCS	Flexible	BOSCH	**6YB25**	5	*
20	3 ½ in	Metal	Bi-Metal	Flexible	LENOX	**55KJ23**	5	
20	3 ¼ in	Metal	HCS	Flexible	BOSCH	**44J709**	100	
20	3 ¼ in	Metal	HSS	Flexible	BOSCH	**1UM15**	5	
20	3 ¼ in	Metal	HSS	Rigid	BOSCH	**44J710**	3	

Primary Material Application	No. of Pieces	Teeth per Inch	Blade Length	Tip Material	Brand	Item No.	
Blade Sets							
T Shank							
General Purpose	5	10, 11/14, 17/4, 20, 6	(1) 3 ¼ in, (2) 3 ⅝ in, (2) 4 in	Metal	Bosch	**4WZ92**	
General Purpose	10	10, 11/14, 17/4, 20, 6	(1) 3 ¼ in, (2) 3 ⅝ in, (2) 4 in	Metal	Bosch	**45HR52**	
General Purpose	14	10, 10/24, 11/14, 12, 17/24, 36, 6, 8/12	(1) 3 ¼ in, (1) 4 ½ in, (3) 3 ⅝ in, (3) 4 in	Metal	Bosch	**3UVZ8**	
General Purpose	18	10, 10/24, 11/14, 12, 17/24, 5/10, 6, 8/12	(1) 3 ¼ in, (1) 4 /1/2, (1) 5 ¼ in, (2) 3 ⅝ in, (4) 4 in	Metal	Bosch	**53DM45**	
General Purpose	18	10, 14, 20, 24, 6, 8/12	3 ⅝ in, 4 in, 4 ½ in, 5 ¼ in	HSS	LENOX	**55KJ35**	
General Purpose	21	10, 10/24, 17/24, 5/10, 6	(1) 3 ⅝ in, (1) 5 ¼ in, (4) 4 in	Metal	Bosch	**1TEH6**	
Wood	1	10, 12, 20, 6	(1) 4 ½ in, (2) 3 ¼ in, (3) 4 in	Metal	Bosch	**44J722**	
Wood	8	11.5/10/12, 8	4 in, 4 ½ in	Metal	Spyder	**38HY15**	
Wood	21	10, 12, 20, 6	(2) 3 ¼ in, (4) 4 in	Metal	Bosch	**1TEH5**	
Wood	30	10, 6	(3) 4 in	Metal	Bosch	**1TEH4**	
Wood	30	10, 11/14, 12, 17/24, 6	(1) 3 ¼ in, (1) 3 in, (1) 4 ½ in, (2) 3 ⅝ in, (4) 4 in	Metal	Bosch	**1TEH3**	
U Shank							
General Purpose	5	10, 11/14, 17/4, 20, 6	(1) 2 ¾ in, (2) 3 ⅛ in, (2) 3 ⅝ in	Metal	Bosch	**6YB27**	*
Wood	5	10, 12, 6	2 ¾ in, 3 ⅛ in, 3 ⅝ in	Metal	Skil	**44J701**	*

**U Shank † HSS = High Speed Steel, HCS = High Carbon Steel, HSSB = High Speed Steel Bi-Metal, CVS + Chrome Vandium Steel*

Routers

Powerful tools spin cutting bits that remove material from wood workpieces to profile edges, create grooves and slots, cut joints, and trace shapes. Routers are corded for long run times and have no batteries that need recharging.

Fixed Base—Design locks the router body and the bit at set height for precise routing of workpiece edges. Routers are commonly used with guide bushings to cut along jigs and templates.

Plunge Base—Allows vertical movement of the router body to lower the bit into material anywhere along the top surface. Routers make grooves, insets, mortises, and other interior cuts. They can also do edgework but not as precisely as fixed-base routers.

Fixed and Plunge—Routers have a fixed base for edgework and a plunge base for interior cuts.

Compact
Fixed and Plunge Base
5NAJ9

Full Size
Fixed Base
1ED58

Mid-Size
Plunge Base
45CR56

HP	Current	Number of Speed Settings	Number of Bases Included	Collet Size	Plunge Depth Capacity	Handle Type	Start Type	Tool Weight	Brand	Item No.
Compact										
Fixed Base Type										
1 hp	5.6 A	6	1	¼ in	—	Palm Grip	Soft-Start	3.3 lb	Bosch	**45CR54**
1 ¼ hp	7 A	6	1	¼ in	—	Palm Grip	Soft-Start	4.6 lb	DeWalt	**5NAJ8**
1 ¼ hp	7 A	6	1	¼ in	—	Palm Grip	Soft-Start	4.4 lb	Bosch	**446P20**
Plunge Base Type										
1 ¼ hp	6.5 A	6	4	¼ in	1 ⅜ in	Palm Grip	Soft-Start	3.9 lb	Makita	**34G803**
1 ¼ hp	8 A	1	1	¼ in	1 ⅜ in	Double Grip	Instant Start	6 lb	Makita	**14F181**
Fixed and Plunge Base Type										
1 ¼ hp	7 A	6	2	¼ in	1 ½ in	Double Grip	Soft-Start	4.6 lb, 6.2 lb	DeWalt	**5NAJ9**
Mid-Size										
Fixed Base Type										
1 ¾ hp	11 A	1	1	¼ in, ½ in	—	Double Grip	Instant Start	7.1 lb	DeWalt	**3HA91**
1 ¾ hp	11 A	1	1	¼ in, ½ in	—	D-Handle	Soft-Start	9.2 lb	Milwaukee	**38D245**
2 ¼ hp	12 A	6	1	½ in	—	Double Grip	Soft-Start	8.3 lb	Bosch	**3TXE5**
2 ¼ hp	12 A	6	1	¼ in, ½ in	—	Double Grip	Soft-Start	7.2 lb	DeWalt	**3HA93**
2 ¼ hp	13 A	36	1	¼ in, ½ in	—	Double Grip	Soft-Start	8.8 lb	Milwaukee	**38D247**
2 3⁄10 hp	15 A	6	1	½ in	—	Double Grip	Soft-Start	9.3 lb	Bosch	**45CR55**
Plunge Base Type										
2 hp	10 A	6	1	¼ in, ½ in	2 ⅛ in	Double Grip	Soft-Start	9 lb	DeWalt	**3MM54**
1 ¾ hp	11 A	1	2	¼ in, ½ in	1 11⁄16 in	Double Grip	Soft-Start	8.8 lb	Milwaukee	**38D243**
2 3⁄10 hp	15 A	6	1	½ in	3 in	Double Grip	Soft-Start	12.6 lb	Bosch	**45CR56**
Fixed and Plunge Base Type										
1 ¾ hp	11 A	1	2	¼ in, ½ in	2 ½ in	Double Grip	Instant Start	10 lb	DeWalt	**3CA68**
2 ¼ hp	11 A	6	1	¼ in, ½ in	2 ⅝ in	Double Grip	Soft-Start	7.2 lb	Makita	**14F180**
2 ¼ hp	12 A	6	2	¼ in, ½ in	2 ½ in	Double Grip	Soft-Start	10.1 lb	DeWalt	**3HA94**
2 ¼ hp	12 A	6	3	¼ in, ½ in	2 ½ in	D-Handle	Soft-Start	10.1 lb	DeWalt	**4DV45**
Full-Size										
Fixed Base Type										
—	15 A	36	1	¼ in, ½ in	—	Double Grip	Soft-Start	11.8 lb	Milwaukee	**1ED58**
Plunge Base Type										
3 hp	15 A	7	1	¼ in, ½ in	3 3⁄16 in	Double Grip	Soft-Start	13.7 lb	DeWalt	**786VM0**
3 ¼ hp	15 A	1	1	¼ in, ½ in	2 ¾ in	Double Grip	Soft-Start	13.4 lb	Makita	**14F182**
3 ¼ hp	15 A	6	1	¼ in, ½ in	2 ¾ in	Double Grip	Soft-Start	13.4 lb	Makita	**14F183**

Flush Trim
9XUH4

Roundover
53DJ22

Profile Router Bits

▪ For additional Router Bits see page 2297

Use to create a decorative edge on a workpiece in woodworking and light manufacturing applications. They attach to a compatible router and are moved along the outside edge to make a contoured cut.

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	No. of Flutes	Brand	Item No.
Drawer and Lock						
2 in	⅞ in	2 ⅜ in	½ in	2	Cmt	**45DK94**
Flush Trim						
½ in	1 in	2 ½ in	¼ in	2	Bosch	**41HP95**
½ in	¾ in	2 ¼ in	¼ in	2	Cmt	**9XUH4**
½ in	2 in	4 ⅜ in	½ in	1	Freud	**53DJ37**
½ in	1 in	2 13⁄16 in	¼ in	1	Freud	**53DJ33**
½ in	1 in	2 19⁄32 in	¼ in	2	Westward	**16Y549**
½ in	1 in	2 23⁄32 in	¼ in	2	Westward	**16Y531**
¼ in	1 in	2 ½ in	¼ in	2	Cmt	**22EC96**
¼ in	¾ in	2 ½ in	¼ in	1	Cmt	**22ED20**
¼ in	1 in	2 ⅝ in	¼ in	2	Westward	**16Y589**
¼ in	¼ in	1 9⁄16 in	¼ in	1	Westward	**16Y561**
⅜ in	½ in	2 ⅛ in	¼ in	2	Bosch	**41HP97**
⅜ in	1 in	2 13⁄16 in	¼ in	1	Freud	**53DJ31**
⅜ in	1 in	2 19⁄32 in	¼ in	2	Westward	**16Y538**
Hinge Mortise						
⅜ in	7⁄16 in	2 ⅛ in	¼ in	2	Cmt	**22ED02**
Rail and Stile						
1 ⅝ in	41⁄64 in	3 in	½ in	2	Bosch	**499K76**
Roundover						
¾ in	13⁄32 in	2 ⅛ in	¼ in	2	Westward	**16Y565**
⅞ in	½ in	2 3⁄16 in	¼ in	2	Freud	**53DJ18**
1 ½ in	¾ in	2 ½ in	¼ in	2	Freud	**53DJ22**
1 ⅛ in	½ in	2 3⁄16 in	¼ in	2	Freud	**53DJ19**
1 in	17⁄32 in	2 ¼ in	¼ in	2	Westward	**16Y536**
Straight						
½ in	¼ in	2 ⅛ in	¼ in	2	Bosch	**41HP94**
½ in	2 ½ in	4 ⅜ in	½ in	2	Cmt	**22EC81**
½ in	1 ¼ in	3 ¼ in	½ in	2	Cmt	**22EC71**
½ in	1 in	2 ⅝ in	¼ in	1	Freud	**53DJ40**
½ in	1 in	2 ⅛ in	¼ in	2	Freud	**53DH94**
½ in	1 in	2 5⁄16 in	¼ in	2	Westward	**16Y586**
¼ in	1 in	2 ½ in	¼ in	2	Bosch	**499K82**
¼ in	1 in	2 ⅜ in	¼ in	2	Cmt	**9XVG7**
¼ in	¾ in	2 in	¼ in	2	Cmt	**22ED30**
¼ in	1 in	2 ½ in	¼ in	2	Freud	**53DH89**
¼ in	1 in	2 ⅜ in	¼ in	1	Onsrud	**6RRK6**
¼ in	¾ in	2 ⅝ in	¼ in	1	Onsrud	**6RRK8**
¼ in	¾ in	3 ¼ in	¼ in	1	Onsrud	**6RRK5**
¼ in	1 ¼ in	2 ⅝ in	¼ in	1	Onsrud	**6RRK2**
¼ in	¼ in	1 ½ in	¼ in	1	Onsrud	**6RRK9**
¼ in	1 in	2 5⁄16 in	¼ in	2	Westward	**16Y583**
¼ in	1 in	3 ¼ in	¼ in	2	Westward	**16Y634**
⅛ in	½ in	2 in	¼ in	2	Bosch	**499K80**
⅛ in	7⁄16 in	2 in	¼ in	1	Bosch	**499K67**
⅛ in	⅝ in	3 ¼ in	¼ in	1	Onsrud	**6RRK7**
⅛ in	½ in	2 in	¼ in	1	Onsrud	**6RRK1**
3⁄16 in	¾ in	3 ¼ in	¼ in	1	Onsrud	**6RRL0**
¾ in	1 ½ in	3 in	½ in	2	Freud	**53DJ01**
⅜ in	1 in	3 5⁄32 in	⅜ in	1	Bosch	**499K70**
31⁄64 in	¾ in	2 ¼ in	¼ in	2	Bosch	**499K65**
V-Groove						
¾ in	⅜ in	2 ½ in	½ in	2	Cmt	**22EC75**

Laminate Trimmers

A clear sub-base provides a clear view of the trimming edge, while 30RV92 to 30RV95 add an LED light for added visibility and a spindle lock button to ease bit changeouts. All models are corded for long run times and have no batteries that need recharging.

30RV92

30RV94

Amps @ 120V	No Load RPM	Switch	Tool Length (In)	Tool Weight (lb.)	Includes	Brand	Item No.
4	30,000 RPM	Toggle	7 ⅞ in	3.3	¼ Collet, Fixed Base, Template Guide, Trimmer Guide, Wrench	Makita	**14G989**
4.5	31,000 RPM	On/Off	4 ¼ in	3.4	Collet Wrench, Motor, Standard Base, Straight Edge	DeWalt	**30RV92**
4.5	31,000 RPM	On/Off	4 ¼ in	3.4	Collet Wrench, Motor, Standard Base, Straight Edge	Porter Cable	**30RV94**
5.6	16,000 to 35,000	On/Off	4 ¼ in	3.4	Collet Wrench, Motor, Standard Base, Straight Edge	Porter Cable	**30RV95**

499F76

54XT81

Engravers

Corded for long run times and no batteries that need recharging. 499F76 features a variable speed control and replaceable motor brushes for long life. 54XT81 and 12T034 allow for stroke adjustments to regulate the engraving depth. Dayton models can engrave most surfaces while 54XT81 engraves metal, leather, plastic, and wood.

Strokes per Min.	Amps @ 120V	Tool Length	Tool Wt.	Brand	Item No.
Engravers					
—	1 A	9 in	2 lb	Dayton	**499F76**
2200	0.5 A	5.014 in	0.45 lb	Dremel	**54XT81**
3600/7200	—	7.25 in	0.4 lb	Dayton	**12T034**
Accessories					
Engraving Bit for Normal Use				Dremel	**1UH83**
Engraving Bit for Continuous Use				Dremel	**1UH84**

5VC57

46U377

14G988

DEWALT · ROTOZIP · makita

Cut-Out Tools

Tools spin their bits like a drill but cut like a saw into drywall, thin metal, or thin plywood. They make a plunge cut and then move up, down, or sideways to cut through material and feature an adjustable depth gauge to control how far the bit cuts into materials. Their barrel-grip body allows for fine control to cut along a straightedge, make curved freehand cuts, and follow the shape of electrical boxes, panels, and frames to make cutouts. Adjustable depth gauge is removable for making deep cuts. Corded for long run times compared to cordless tools and don't have batteries that require recharging.

Max. Speed	Current	Spindle Lock	Cord Length	Brand	Item No.
Corded Cut-Out Tools					
30,000 RPM	5 A	Yes	10 ft	DeWalt	**5VC57**
30,000 RPM	5.5 A	No	6 ft	Rotozip	**46U377**
32,000 RPM	5 A	Yes	10 ft	Makita	**14G988**
32,000 RPM	5 A	Yes	10 ft	Makita	**14U144**

Drill Bit Diameter	Cutting Depth	Bit Application	Brand	Item No.	Pkg. Qty.
Cut-Out Tool Routing Bits					
Carbide					
5⁄32 in	1 in	Cement Board, Ceramic Wall Tile, Plaster	Rotozip	**1PKW7**	1
5⁄32 in	1 2⁄5 in	Fiberboard, Underlayment	Rotozip	**2PPY7**	1
5⁄32 in	18 ga	Sheet Metal (18 ga)	Rotozip	**1PKW6**	1
¼ in	1 in	Cement Board, Plaster	Rotozip	**4LE34**	1
Diamond Grit					
¼ in	1 in	Countertops, Floor Tile	Rotozip	**35HX63**	1
High Speed Steel					
⅛ in	¾ in	Drywall	Rotozip	**5JLT3**	8
⅛ in	¾ in	Drywall	Rotozip	**5JLT0**	16
⅛ in	1 ⅛ in	Aluminum Siding, Fiberglass, Laminates, Plywood, Plastic, Vinyl, Wood	Rotozip	**5JLT2**	4
⅛ in	1 in	Aluminum Siding, Fiberglass, Laminates, Plywood, Plastic, Vinyl, Wood	Rotozip	**5JLT1**	16
⅛ in	1 in	Drywall	Rotozip	**41HR17**	8
⅛ in	1 in	Drywall	Rotozip	**53DM76**	50
⅛ in	1 in	Drywall	Rotozip	**53DM83**	16
⅛ in	1 in	Drywall	Rotozip	**53DM84**	50
⅛ in	1 in	Drywall, Plastic, Wall Tile, Wood	Rotozip	**53DM77**	1
⅛ in	32 mm	Drywall	DeWalt	**60NP25**	20
⅛ in	32 mm	Drywall	DeWalt	**60NP24**	10
⅛ in	35 mm	Drywall	DeWalt	**60NP29**	20
⅛ in	35 mm	Drywall	DeWalt	**60NP28**	10
⅛ in	37 mm	Multi-Material	DeWalt	**60NP30**	5
5⁄32 in	⅞ in	Drywall	Rotozip	**2PPY3**	2
5⁄32 in	1 ¼ in	Aluminum Siding, Fiberglass, Laminates, Plywood, Plastic, Vinyl, Wood	Rotozip	**2PPY5**	2
5⁄32 in	1 in	Drywall	Rotozip	**53DM78**	10
5⁄32 in	33 mm	Drywall	DeWalt	**60NP26**	2
5⁄32 in	42 mm	Multi-Material	DeWalt	**60NP31**	2
¼ in	1 ¼ in	Drywall	Rotozip	**4LE37**	1
¼ in	43 mm	Drywall	DeWalt	**60NP27**	2
Steel					
5⁄32 in	1 in	Aluminum, Wood, Fiberglass, Laminates, Plywood, Plastic, Vinyl	Rotozip	**53DM81**	10
5⁄32 in	1 ¼ in	Laminates	Rotozip	**53DM80**	1
Tungsten Carbide					
⅛ in	¾ in	Tile	Rotozip	**5JLR9**	4

Application	Includes	For Use With	Brand	Item No.	Pkg. Qty.
Cut-Out Tool Accessories					
2 ½ in Cut-Off Wheel	(5) 46 Grit Aluminum Oxide Cutting Wheels	RotoZip Tools with Cut-Off Wheel Adapter and Guard	Rotozip	**19L474**	5
2 ½ in Cut-Off Wheel Arbor and Guard	(2) DD-PM Wheel, Direct Drive Guard, Direct Drive Mandrel	RotoZip Tools	Rotozip	**19L473**	1
Circle Cutting, 4 in to 12 in diameter	Tool Holder with Cutting Guide	RotoSaw	Rotozip	**53DM85**	1

Application	Includes	For Use With	Brand	Item No.	Pkg. Qty.
Cut-Out Tool Accessories					
2 ½ in Cut-Off Wheel	(5) 46 Grit Aluminum Oxide Cutting Wheels	RotoZip Tools with Cut-Off Wheel Adapter and Guard	Rotozip	**19L474**	5
2 ½ in Cut-Off Wheel Arbor and Guard	(2) DD-PM Wheel, Direct Drive Guard, Direct Drive Mandrel	RotoZip Tools	Rotozip	**19L473**	1
Circle Cutting, 4 in to 12 in diameter	Tool Holder with Cutting Guide	RotoSaw	Rotozip	**53DM85**	1

4GD67

52HR91

DEWALT · JET · Just Better Tools™ eazypower · Supplier Diversity

Scroll Saws

- 1.3A current
- 5" blade length
- 2" cutting capacity

Thin, narrow blades make precise cuts in wood, metal, plastic, and laminates. The blade is held under high tension as the user moves the workpiece past the blade. Electronic variable speed adjusts for various materials. 52HR91 has a longer throat depth to accommodate larger workpieces. All models are corded for long run times compared to cordless tools and have no batteries to recharge.

Throat Depth	Table Dimensions	Brand	Mfr. Model	Item No.
Scroll Saws				
20 in	16 in x 23¾ in	DeWalt	DW788	**4GD67**
22 ⅜ in	12 43⁄64 in x 23⅝ in	Jet	JWSS-22	**52HR91**

Primary Material Application	Tooth Style	Teeth per Inch	Blade Shank Type	Brand	Item No.
Replacement Blades, 5 in. Length					
Soft Metal	Skip Tooth	9.5	Pinned End	Eazypower	**29UP29**
Soft Metal	Standard	36	Pinned End	Eazypower	**29UP37**
Soft Metal	Standard	41	Pinned End	Eazypower	**29UP38**
Soft Metal	Skip Tooth	9.5	Plain End	Eazypower	**29UP16**
Wood	Standard	10	Plain End	Eazypower	**29UP17**
Wood	Standard	15	Plain End	Eazypower	**29UP21**
Wood	Standard	18.5	Plain End	Eazypower	**29UP22**
Wood	Spiral	41	Plain End	Eazypower	**29UP25**

48KR88

34TE66

3WE48

SKILSAW · Fein · Milwaukee

Metal-Cutting Circular Saws

Used in metal fabrication and auto body shops to cut metal when precision is required. They rotate slower and have more torque than general purpose saws to make cleaner, faster cuts. Corded for long run times compared to cordless tools and have no batteries to recharge. **Left Blade Side** makes it easier to see sight lines when the saw is held with the right hand. **Right Blade Side** positions the blade away from the user's body when the saw is held in the right hand.

Blade Dia.	Current	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Handle Type	Includes	Brand	Item No.
Left Blade Side									
Worm Drive									
8 in	15 A	2 ¾ in	2 ¾ in	0°	⅝ in	Worm Drive Style	42T Diablo Cermet Blade, Multi-Function Wrench	Skilsaw	**48KR88**
Right Blade Side									
Direct Drive									
7 ¼ in	12 A	1 9⁄16 in	2 ½ in	0° to 45° Right	¾ in	Soft Grip	Ear Protection, Guide Plate, Impact Resistant Case, Mild Steel Saw Blade, Safety Goggles, Saw, Wrench	Fein	**34TE66**
8 in	15 A	2 9⁄16 in	—	0°	⅝ in	Tilt	Carrying Case, Hex Blade Wrench, Premium Cermet Tipped Blade	Milwaukee	**3WE48**
Worm Drive									
9 in	15 A	2 ⅜ in	3 ½ in	0° to 45° Right	1 in	Soft Grip	Ear Protection, Guide Plate, Impact Resistant Case, Mild Steel Saw Blade, Safety Goggles, Saw, Wrench	Fein	**34TE67**

22DL18

4A155

Left-Blade General Purpose Circular Saws

- 15A
- 120VAC

These general purpose circular saws are built with a left-side blade that makes it easier to see sight lines when the saw is held with the right hand. **Direct drive** saws have motors that transfer power directly from the rotation of the motor to rotation of the wheel which turns the blade. They are designed with the motor on the side of the saw and are wider but lighter than worm drive saws. **Worm drive** saws are constructed with the motor directly behind the saw and are more powerful than direct drive saws. They have a fully-enclosed gear system that rotates the blade, and narrow profile to reach confined spaces.

Blade Dia.	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Includes	Features	Item No.
Direct Drive							
7 ¼ in	1 ⅞ in	2 7⁄16 in	0° to 56° Left	⅝ in	24 Tooth Carbide Blade, Multi-Function Wrench	Lightweight Design, Powerful Dual Field Motor, Worm Drive Style	**407M16**
Worm Drive							
7 ¼ in	1 15⁄16 in	2 ⅜ in	0° to 53° Left	⅝ in	Carbide Blade, Locking Plug, Multi-Function Wrench	(6) Function Wrench, Anti-Snag Magnesium Lower Guard, Blade Lock Reposition, Integrated Saw Hook Mount, Soft Grip	**22DL18**
7 ¼ in	1 15⁄16 in	2 ⅜ in	0° to 53° Left	Diamond	24T Diablo(R) Carbide Blade, Multi-Function Blade Wrench	Anti-Snag Lower Guard, Cut-Ready Depth System, Dual Field(TM) Motor, Integrated Saw Hook, Lighter Magnesium Construction, Locking Plug, Twist Lock L5-20P	**38ZD54**
7 ¼ in	1 15⁄16 in	2 ⅜ in	0° to 53° Left	Diamond	40T Diablo Carbide Blade, Multi-Function Wrench	Dual Field Motor, Durable Die-Cast Magnesium Foot, Lightweight Magnesium Construction	**48KR86**
7 ¼ in	2 in	2 7⁄16 in	0° to 51° Left	Diamond	24T Diablo Carbide Blade, Blade Wrench Stored in Foot	Dual-Field Motor, Lightweight Aluminum Construction	**48KR85**
7 ¼ in	2 in	2 7⁄16 in	0° to 51° Left	Diamond	Blade Wrench, Carbide Blade	Aluminium Construction, Dual Field(TM) Motor, Locking Plug, Twist Plug NEMA L5-20P	**38ZD52**
8 ¼ in	2 ¼ in	2 ⅞ in	0° to 60° Left	Diamond	(24) Tooth Carbide Blade, Blade Wrench	60° Bevel, Dual Field(TM) Motor	**4A155**
10 ¼ in	2 ¾ in	3 11⁄16 in	0° to 51° Left	Diamond	40T Blade, Blade Wrench	Dual Field(TM) Motor, Lightweight Magnesium	**48XY45**
10 ¼ in	2 ¾ in	3 11⁄16 in	0° to 51° Left	Diamond	40T Diablo(R) Carbide Blade	Dual Field(TM) Motor, Lightweight Magnesium Construction	**39CH52**

38ZD50

24T877

48XY42

Right-Blade General Purpose Circular Saws

- Direct drive
- 7 ¼" blade dia.
- ⅝" arbor size
- 120VAC

These corded circular saws are built with the blade mounted on the right side of the motor so the blade is positioned away from the user's body when held in the right hand.

Current	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Bevel Angle Range	Arbor Size	Includes	Features	Brand	Item No.
Direct Drive								
Concrete, Masonry								
15 A	1 ⅞ in	2 7⁄16 in	0° to 56° Right	⅝ in	1½ in Vacuum Hose Adapter, 2½ in Vacuum Hose Adapter, 4T Polycrystalline Diamond Tipped Fiber Cement Blade, 8 ft Vacuum Hose with Nylon Sleeve, Blade Wrench	Built In Dust Collection System, Dual Field(TM) Motor, No-Mar Sleeve	Skilsaw	**48XY44**
General Purpose								
13 A	1 15⁄16 in	2 7⁄16 in	0° to 51° Right	⅝ in	Blade Wrench, Carbide Blade	Anti-Snag Lower Guard, Rear-Lever Depth Adjustment, Safety Lock	Skil	**38ZD49**
14 A	1 15⁄16 in	2 7⁄16 in	0° to 51° Right	⅝ in	Blade Wrench, Carbide Blade	Anti-Snag Lower Guard, Safety Lock, Two-Point Line of Sight	Skil	**38ZD50**
15 A	1 15⁄16 in	2 9⁄16 in	0° to 48° Right	⅝ in	(24) Tooth Saw Blade, Blade Spanner, Dust Extraction Spout, Rip Fence	Compact, Cutaway Inner Guard Gives Improved Line of Sight to Cutting Line, Direct Compatability with DEWALT(R) Airlock System for Easy, Dust Blower Clears Dust and Debris From Cut Line, European Style Plug, Lightweight, Secure Connection to Extraction Hose	DeWalt	**34RD41**
15 A	1 ⅞ in	2 ½ in	0° to 45° Right	⅝ in	18T Carbide Tipped Blade, Wrench	Metal Guards, Shoe, Spindle Lock	Porter Cable	**49EN05**
15 A	1 ⅞ in	2 ½ in	0° to 55° Right	⅝ in	18T Carbide Tipped Blade, Wrench	Metal Guards, Shoe, Spindle Lock	Porter Cable	**49EN06**
15 A	1 15⁄16 in	2 7⁄16 in	0° to 51° Right	⅝ in	Carrying Bag	Anti-Snag Lower Guard, Laser Outline Guide, On-Tool Wrench Storage, Safety Lock	Skil	**38ZD51**
15 A	2 in	2 9⁄16 in	0° to 57° Right	⅝ in	Blade Wrench, Instruction Manual, Carbide Tipped 7¼ in Circular Saw Blade	Electric Brake Stops The Blade After Trigger is Released	DeWalt	**24T877**
15 A	2 in	2 9⁄16 in	0° to 57° Right	⅝ in	Carbide Tipped 7¼ in Blade, Blade Wrench, Instruction User Manual	15A Motor, Dust Blower, On-board Blade Wrench, Tough Cord	DeWalt	**38A922**
Wood								
15 A	1 ⅞ in	2 7⁄16 in	0° to 56° Right	⅝ in	24T Diablo Carbide Blade, Multi-Function Wrench	All-Magnesium Saw, Built In Dust Blower, Dual Field(TM) Motor	Skilsaw	**48KR84**
15 A	1 ⅞ in	2 7⁄16 in	0° to 56° Right	⅝ in	24T Diablo Carbide Blade, Multi-Function Wrench	All-Magnesium Saw, Built In Dust Blower, Dual Field(TM) Motor, Electric Brake	Skilsaw	**451G48**
15 A	1 ⅞ in	2 7⁄16 in	0° to 56° Right	⅝ in	Blade Wrench	Built In Dust Blower, Dual Field(TM) Motor, Lightweight Motor Housing	Skilsaw	**48XY42**
15 A	1 ⅞ in	2 7⁄16 in	0° to 56° Right	⅝ in	Blade Wrench	Accessible Brushes, Built In Dust Blower, Dual Field(TM) Motor, Electric Brake, Magnesium Housing	Skilsaw	**48XY43**

10D912

54XJ28

Corded Miter Saws

These saws make straight, mitered, beveled, and compound cuts on materials like wood and plastic. They plug into a 120VAC power source and are generally more powerful than cordless saws.

Blade Dia.	Arbor Size	Slide	No Load RPM	Amps	Bevel Capacity	Miter Capacity	Crosscut @ 45°H	Crosscut @ 45°W	Crosscut @ 90°H	Crosscut @ 90°W	Includes	Brand	Item No.
8 ½ in	⅝ in	Yes	5600	12.0	-2° to 47°	0° to 52° L, 0° to 60° R	1½"	8"	2"	8"	Dust Bag, Blade Change Wrench, 8½ in Blade	Bosch	**35KF89**
10 in	⅝ in	Yes	4800	15.0	0° to 47° L; R	52° L, 60° R	4"	8"	4"	12"	10 in Blade, Material Clamp, Dust Bag	Bosch	**30RW22**
10 in	⅝ in, 1 in	No	5000	15.0	3° to 48° L; R	0° to 50° L, 0° to 50° R	3½"	4 13⁄64"	4½"	6"	Dust Bag, Vertical Clamp, Wrench	DeWalt	**55AC79**
12 in	⅝ in, 1 in	Yes	3800	15.0	0° to 49° L; R	50° to 60°	4½"	9½"	6¾"	13¾"	Clamp, Dust Bag	DeWalt	**10D912**
12 in	⅝ in, 1 in	No	3800	15.0	0° to 48° L; R	0° to 50° L, 0° to 50° R	3 39⁄64"	5½"	6½"	8"	Wrench, Dust Bag, Vertical Clamp, 12 in Carbide Tipped Blade	DeWalt	**55AC77**
12 in	⅝ in, 1 in	No	3800	15.0	0° to 48° L; R	0° to 50° L, 0° to 50° R	3 39⁄64"	5½"	6½"	8"	Dust Bag, Vertical Clamp, Wrench	DeWalt	**55AC78**
12 in	⅝ in, 1 in	No	4000	15.0	3° to 48° L; R	0° to 50° L, 0° to 50° R	3⅝"	5½"	5½"	8"	12" Carbide Tipped Blade, Dust Bag, Vertical Clamp, Wrench	DeWalt	**55AC76**
12 in	⅝ in	No	4500	15.0	0° to 45°	47° L; R	4" x 4" or 2" x 8"	2" x 8"	4" x 4"	2" x 8"	Blade Guard, Blade Wrench, Die Cast Aluminum Sliding Fence, Dust Collection Bag, Extension Rails (2), Extension Table, Stop Block, Vertical Clamp	Skil	**19M490**
12 in	1 in	Yes	3200	15.0	0° to 48° L; R	0° to 60° L; R	10½"	3⅝"	15"	3⅝"	Dust Bag, Hex Wrench	Makita	**54XJ28**
12 in	1 in	Yes	3200	15.0	0° to 48° L; R	0° to 60° L; R	10½"	3⅝"	15"	3⅝"	Dust Bag, Hex Wrench, Stand	Makita	**54XJ29**
12 in	1 in	Yes	3800	15.0	0° to 47° L; R	52° L, 60° R	6½"	14"	6½"	14"	(1) Dust Bag, (1) Material Clamp	Bosch	**6DMZ4**

Portable Table Saws

- 120VAC

Rolling Stand 25AX01

Folding Stand 490L16

Blade Dia.	Voltage	Current	Max. Cut Width Right of Blade	Max. Blade Speed	Bevel Angle Range	Max. Cutting Depth @ 0 Deg.	Brand	Mfr. Model	Item No.
Rolling Stand Portable Table Saws									
10 in	120V AC	14A	30 ½ in	4,000 RPM	0° to 45° Left	3 ⅛ in	Sawstop	CNS175-SFA30	**46AC62**
10 in	120V AC	14A	36 ½ in	4,000 RPM	0° to 45° Left	3 ⅛ in	Sawstop	CNS175-TGP36	**46AC61**
10 in	120V AC	14A	52 ½ in	4,000 RPM	0° to 45° Left	3 ⅛ in	Sawstop	CNS175-TGP52	**46AC60**
10 in	120V AC	15A	24 in	4,800 RPM	-2° Left to 47° Right	2 ¼ in	DeWalt	DWE7491RS	**25AX01**
10 in	120V AC	15A	25 ½ in	4,000 RPM	-1° to 46°	3 ⅛ in	Sawstop	JSS-120A60	**55HF84** *
Folding Stand Portable Table Saws									
8.25 in	120V AC	—	24 ¼ in	5,800 RPM	-2 Degrees Left to 47 Degrees Right	1 ½ in	DeWalt	DWE7485WS	**60NP15**
10 in	120/240V AC	15A/7.5A	30 in	3,550 RPM	0° to 45° Left	2 ⅛ in	Dayton	48WE85	**48WE85** *
10 in	120V AC	15A	32 ½ in	4,800 RPM	60° Left to 45° Right	2 ¼ in	DeWalt	DWE7491X	**490L16**
Benchtop Portable Table Saws									
8.25 in	120V AC	15A	24 in	5,800 RPM	-2° to 47°	2 ½ in	DeWalt	DWE7485	**60HH12**
10 in	120V AC	15A	25 ½ in	5,000 RPM	0° to 45° Left	2 ¼ in	Dayton	499F73	**499F73** *
Automatic Safety Blade Retraction Accessories									
Brake Cartridge, For Use With ICS, PCS, CNS and JSS							Sawstop	TSBC-10R3	**788H86**
Table Saw Dado Cartridge, For Use With All Standard 8 in Dado Sets Up to 29/32 in Thick, All Woods and Other Non-Conductive Materials, CNS Saws, ICS Saws, JSS Saws, PCS Saws							Sawstop	TSDC-8R3	**793LZ9**

**** Saw does not have automatic safety blade retraction.***

Standard Cabinet Table Saws

36HZ65

These table saws have a height-adjustable circular blade that's mounted below the table to make precise cross, bevel, and rip cuts. Built with extended surfaces to support large work-pieces and sheet goods, these saws provide more precise cuts and control than miter saws and portable table saws. They're plugged into a wired power source and not intended to be moved.

Arbor Size	Max. Blade Speed	Bevel Angle Range	Blade Tilt	Max. Cut Width Right of Blade	Max. Cutting Depth @ 0 Deg.	Max. Cutting Depth @ 45 Deg.	Voltage	Current	Brand	Item No.
10 in Blade Dia.										
⅝ in	3,450 RPM	0° to 45° Left	Left	50 in	2 ⅛ in	3 in	240V AC	16A	Dayton	**38UK49**
	3,450 RPM	0° to 45° Right	Right	50 in	3 in	2 ⅛ in	240V AC	16A	Dayton	**49G995**
	3,850 RPM	0° to 45° Left	—	50 in	3 ⅛ in	2 ⅛ in	220V AC	15A	Baileigh Industrial	**61HH73**
	3,850 RPM	0° to 45° Left	—	50 in	3 ⅛ in	2 ⅛ in	220V AC	10A	Baileigh Industrial	**61HH72**
	4,300 RPM	0° to 45° Left	Left	50 in	2 ⅛ in	3 in	230V AC	14.5A	Jet	**42W908**
12 in Blade Dia.										
⅝ in, 1 in	3,450 RPM	0° to 45° Left	Left	50 in	4 in	2 ¾ in	240V AC	16A	Dayton	**49G997**
	3,450 RPM	0° to 45° Right	Right	50 in	4 in	2 ¾ in	240V AC	16A	Dayton	**49G996**
1 in	3,600 RPM	45° Left to 45° Right	Left	52 in	2 ¾ in	4 in	220V AC	28A	Baileigh Industrial	**36HZ65** *

**** Saw has automatic blade safety retraction.***

46AC48

Cabinet Table Saws with Automatic Safety Blade Retraction

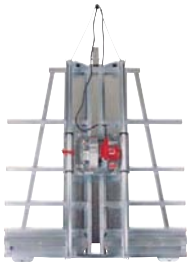
- 10" blade dia.
- ⅝" arbor size
- Max. blade speed: 4000 rpm
- Bevel angle range: 0° to 45° left
- 3 ⅛" max. cutting depth at 0°
- 2 ¼" max. cutting depth at 45°

Cabinet table saws have a safety feature that automatically retracts the saw blade when any part of the person's body, such as hands or arms, touches the blade. They have an extended surface on both sides of the blade to support large workpieces. Saws are plugged into wired power source and are not intended to be moved.

Max. Cut Width Right of Blade	Voltage	Current	Item No.
30 in	120V AC	14A	**46AC46**
	230V AC	13A	**46AC43**
36 in	120V AC	14A	**46AC45**
36 ½ in	230V AC	12A	**46AC51**
36 in	230V AC	13A	**46AC42**
36 ½ in	230V AC	13A	**46AC53**
	230V AC	17.8A	**46AC56**
	230V AC	19.7A	**46AC50**
	480V AC	5.8A	**46AC59**
	480V AC	9A	**46AC57**
52 in	120V AC	14A	**46AC44**
52 ½ in	230V AC	12A	**46AC49**
52 in	230V AC	13A	**46AC41**
52 ½ in	230V AC	13A	**46AC52**
	230V AC	17.8A	**46AC54**
	230V AC	19.7A	**46AC48**
	480V AC	5.8A	**46AC58**
	480V AC	9A	**46AC55**

Panel Saw & Router Combo 34C059

Panel Saw 34C054



Panel Saw 3EB50

Corded Panel Saws

Cutting Direction	Cutting Height	Overall Height	Blade Dia.	Cutting Thickness	Arbor Size	Current	Brand	Item No.
Panel Saw & Router Combo								
120V AC								
Horizontal, Vertical	62 in	83 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C059**
	62 in	87 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**31FT75**
Panel Saws								
120V AC								
Horizontal, Vertical	50 in	70 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C050**
	62 in	92 in	8 in	1 ¾ in	⅝ in	11A/15A	Safety Speed	**38W401**
	64 in	90 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**34C053**
	64 in	90 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C051**
	74 in	95 in	8 in	1 ¾ in	⅝ in	15A	Safety Speed	**34C052**
	74 in	98 in	8 in	1 ¾ in	⅝ in	13A	Safety Speed	**34C054**
Vertical	50 in	70 in	8 ¼ in	1 ¾ in	⅝ in	15A	Milwaukee	**3EB50**
	64 in	90 in	8 in	1 ¾ in	⅝ in	—	Safety Speed	**60TD78**
230V AC								
Horizontal, Vertical	64 in	95 in	8 in	2 in	⅝ in	7.6A	Safety Speed	**31FT64**
	64 in	98 in	8 in	2 ⅛ in	⅝ in	7.6A	Safety Speed	**34C055**

Carbide Tipped for Combination Cutting
46AC67

Carbide Tipped for Framing
490R88

Carbide Tipped for Ripping
52XF73

Wood-Cutting Circular Saw Blades

These saw blades make rip cuts, cross cuts, miter cuts, and combination cuts in clean wood in construction, woodworking, and carpentry applications.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Combination Cutting									
Aluminum, Non-Ferrous Metals, Wood									
8 in	60	10°	0.118 in	⅝ in	8,000 RPM	No	0.118 in	Safety Speed	**31FV08**
Plywood, Wood									
10 in	40	15 °	0.098 in	⅝ in	8,000 RPM	No	0.071 in	Diablo	**52XF74**
12 in	44	15 °	0.098 in	1 in	6,000 RPM	No	0.071 in	Diablo	**52XF79**
12 in	60	15 °	0.118 in	1 in	6,000 RPM	No	0.071 in	Diablo	**52XF80**
Wood									
6 ½ in	24	18 °	0.059 in	⅝ in	10,000 RPM	Yes	0.039 in	Diablo	**53WC01**
6 ½ in	40	15 °	0.059 in	⅝ in	12,500 RPM	Yes	0.039 in	Diablo	**52XF64**
7 ¼ in	24	18°	0.071 in	⅝ in	7,000 RPM	Yes	0.047 in	Westward	**24EL55**
7 ¼ in	40	15 °	0.059 in	⅝ in	10,000 RPM	Yes	0.04 in	Diablo	**52XF68**
10 in	40	10°	0.125 in	⅝ in	4,000 RPM	No	0.078 in	Sawstop	**46AC86**
10 in	40	10°	0.125 in	⅝ in	4,000 RPM	No	0.087 in	Sawstop	**46AC67**
10 in	40	15°	0.095 in	⅝ in	7,000 RPM	No	0.071 in	DeWalt	**4LK58**
10 ¼ in	40	18 °	0.087 in	⅝ in	7,000 RPM	Yes	0.071 in	Diablo	**53WC03**
10 in	50	15°	0.098 in	⅝ in	6,000 RPM	No	0.071 in	DeWalt	**1CRB3**
10 in	60	10°	0.125 in	⅝ in	4,000 RPM	No	0.078 in	Sawstop	**46AC85**
10 in	80	10°	0.125 in	⅝ in	4,000 RPM	No	0.094 in	Sawstop	**46AC84**
12 in	32	5°	0.095 in	1 in	7,000 RPM	No	0.069 in	DeWalt	**3MF72**
12 in	32/80	5°	0.095 in	1 in	7,000 RPM	No	0.069 in, 0.071 in	DeWalt	**6RA81**
12 in	60	18°	0.095 in	1 in	4,200 RPM	No	0.065 in	Westward	**24EM02**
14 in	42	15 °	0.165 in	1 in	4,000 RPM	No	0.118 in	Diablo	**52XF85**
Carbide Tipped for Crosscutting									
Plywood, Wood									
7 ¼ in	60	10 °	0.059 in	⅝ in	10,000 RPM	Yes	0.04 in	Diablo	**52XF70**
Wood									
7 ¼ in	60	15°	0.071 in	⅝ in	7,000 RPM	Yes	0.047 in	Westward	**24EL97**
7 ¼ in	60	15 °	0.059 in	⅝ in	10,000 RPM	Yes	0.059 in	Diablo	**53WC02**
10 in	60	7°	0.098 in	⅝ in	6,000 RPM	No	0.071 in	DeWalt	**1CRB4**
14 in	100	5°	0.11 in	1 in	3,800 RPM	No	0.087 in	DeWalt	**5PGA9**
Carbide Tipped for Finishing									
Plywood, Wood									
7 ¼ in	40	15 °	0.059 in	⅝ in	10,000 RPM	Yes	0.04 in	Diablo	**52XF69**
8 ¼ in	40	15 °	0.094 in	⅝ in	9,000 RPM	Yes	0.063 in	Diablo	**52XF72**
10 in	60	15 °	0.098 in	⅝ in	6,000 RPM	No	0.071 in	Diablo	**52XF76**
12 in	80	15 °	0.118 in	1 in	5,000 RPM	No	0.087 in	Diablo	**52XF81**
12 in	100	7 °	0.098 in	1 in	5,000 RPM	No	0.071 in	Diablo	**52XF82**
14 in	84	15 °	0.118 in	1 in	5,000 RPM	No	0.087 in	Diablo	**52XF83**
Wood									
6 ½ in	40	18°	0.063 in	⅝ in	10,000 RPM	Yes	1.05 in	Milwaukee	**490R74**
7 ¼ in	60	15°	0.063 in	⅝ in	8,000 RPM	Yes	1.05 in	Milwaukee	**490R77**
10 in	60	5°	0.095 in	⅝ in	7,000 RPM	No	0.071 in	DeWalt	**3MF71**
10 in	60	7°	0.098 in	⅝ in	6,000 RPM	No	0.071 in	DeWalt	**1CRB5**
10 in	80	15 °	0.098 in	⅝ in	6,000 RPM	No	0.071 in	Diablo	**52XF77**
10 in	90	10 °	0.087 in	⅝ in	6,000 RPM	No	0.04 in	Diablo	**52XF78**
12 in	80	5°	0.095 in	1 in	4,800 RPM	No	0.071 in	DeWalt	**3MF73**
12 in	80	5°	0.106 in	1 in	4,800 RPM	No	0.079 in	DeWalt	**1CRB7**
Carbide Tipped for Framing									
6 ½ in	24	18°	0.102 in	25/64 in	10,000 RPM	Yes	1.05 in	Milwaukee	**490R73**
7 ¼ in	24	15 °	0.059 in	⅝ in	10,000 RPM	Yes	0.04 in	Diablo	**52XF65**
7 ¼ in	24	15 °	0.095 in	⅝ in	10,000 RPM	Yes	0.04 in	Diablo	**52XF67**
7 ¼ in	24	18°	0.102 in	25/64 in	8,000 RPM	Yes	1.05 in	Milwaukee	**490R75**
10 ¼ in	28	18°	0.102 in	⅝ in	7,000 RPM	Yes	1.05 in	Milwaukee	**490R88**
16 5/16 in	60	22 °	0.114 in	1 in	4,000 RPM	No	0.079 in	Diablo	**52XF84**
Carbide Tipped for Plywood									
12 in	60	0°	0.095 in	1 in	7,000 RPM	No	0.065 in	DeWalt	**3LA73**
Carbide Tipped for Ripping									
Plywood, Wood									
10 in	24	15 °	0.098 in	⅝ in	8,000 RPM	No	0.071 in	Diablo	**52XF73**
Wood									
10 in	24	15°	0.095 in	⅝ in	7,000 RPM	No	0.069 in	DeWalt	**4LK57**
10 in	40	20°	0.098 in	⅝ in	6,000 RPM	No	0.071 in	DeWalt	**1CRB2**
Cermet Tipped for Solid Stock									
Ferrous Metals, Stainless Steel, Steel									
10 in	50	0 °	0.083 in	1 in	3,000 RPM	No	0.071 in	Diablo	**52XF50**

Carbide Tipped for Solid Stock
21VJ67

Carbide Tipped for Thick Metal
3BE14

Carbide Tipped for Thin Metal
53WC04

Steel and General Metal-Cutting Circular Saw Blades

These saw blades are used to cut though steel and mild-steel alloys.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Ferrous Metals, Steel									
6 ½ in	48	1.5°	0.061 in	⅝ in	4,200 RPM	No	0.047 in	DeWalt	**30HJ81**
7 ¼ in	48	1.5°	0.077 in	⅝ in	4,000 RPM	No	0.062 in	DeWalt	**30HJ83**
8 in	48	1.5°	0.077 in	⅝ in	4,000 RPM	No	0.062 in	DeWalt	**30HJ88**
12 in	60	1.5°	0.091 in	1 in	1,800 RPM	No	0.076 in	DeWalt	**30HJ69**
14 in	66	1.5°	0.091 in	1 in	1,800 RPM	No	0.076 in	DeWalt	**30HJ74**
14 in	90	1.5°	0.091 in	1 in	1,800 RPM	No	0.076 in	DeWalt	**30HJ73**
Stainless Steel									
12 in	80	10°	0.085 in	1 in	1,800 RPM	No	0.068 in	DeWalt	**30HJ71**
Steel									
14 in	66	0°	0.087 in	1 in	1,300 RPM	No		Fein	**21VJ67**
Carbide Tipped for Solid Stock, Thick Metal									
Ferrous Metals, Steel									
4 ⅜ in	24	4°	0.063 in	⅜ in	1,700 RPM	No	0.063 in	Bn Products Usa	**10H747**
Carbide Tipped for Thick Metal									
Ferrous Metals, Steel									
7 ¼ in	38	2 °	0.075 in	⅝ in	5,600 RPM	Yes	0.087 in	Diablo	**52XF58**
8 in	42	0°	0.073 in	⅝ in	5,000 RPM	No	0.073 in	Milwaukee	**3BE14**
Carbide Tipped for Thin Metal									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7 ¼ in	70	5 °	0.071 in	⅝ in	5,800 RPM	Yes	0.087 in	Diablo	**53WC04**
12 in	60	10°	0.087 in	1 in	1,800 RPM	No	0.071 in	Westward	**24EM31**
14 in	70	10°	0.094 in	1 in	1,600 RPM	No	0.079 in	Westward	**24EM35**
14 in	90	10°	0.094 in	1 in	1,600 RPM	No	0.079 in	Westward	**24EM33**
Ferrous Metals, Steel									
5 ⅜ in	30	0°	0.063 in	25/32 in	4,500 RPM	No	0.05 in	Milwaukee	**6AWL0**
7 ¼ in	56	2 °	0.102 in	⅝ in	5,600 RPM	Yes	0.087 in	Diablo	**52XF60**
8 in	50	0°	0.073 in	⅝ in	5,000 RPM	No	0.073 in	Milwaukee	**3XU98**

Carbide Tipped for Solid Stock
30HJ76

Cermet Tipped for Thick Metal
52XF53

Stainless Steel-Cutting Circular Saw Blades

These saw blades have a stabilized plate and carbide-tipped teeth for cutting stainless steel without wearing down and dulling blade teeth.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7 ¼ in	48	10°	0.078 in	¾ in	5,800 RPM	No	0.25 in	Fein	**34NL92**
Stainless Steel									
5 ½ in	40	10°	0.06 in	25/32 in	4,200 RPM	No	0.044 in	DeWalt	**30HJ85**
12 in	80	10°	0.085 in	1 in	1,800 RPM	No	0.068 in	DeWalt	**30HJ71**
14 in	90	10°	0.069 in	1 in	1,800 RPM	No	0.068 in	DeWalt	**30HJ76**
Carbide Tipped for Stainless Steel / Carbide									
Stainless Steel									
14 in	90	10°	0.094 in	1 in	1,300 RPM	No	—	Fein	**21VJ69**
Carbide Tipped for Thin Metal									
9 in	48	10°	0.078 in	1 in	3,380 RPM	No	0.079 in	Fein	**21VJ41**
Carbide Tipped for Thin Steel / Carbide									
14 in	90	10°	0.094 in	1 in	1,300 RPM	No	—	Fein	**21VJ70**
Cermet Tipped for Thick Metal									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Stainless Steel, Steel									
7 ¼ in	48	2 °	0.075 in	⅝ in	5,800 RPM	Yes	0.063 in	Diablo	**54YR17**
Ferrous Metals, Stainless Steel, Steel									
12 in	60	0 °	0.083 in	1 in	1,800 RPM	No	0.071 in	Diablo	**52XF51**
14 in	72	0 °	0.083 in	1 in	1,800 RPM	No	0.071 in	Diablo	**52XF53**
Cermet Tipped for Thin Metal									
Ferrous Metals, Stainless Steel, Steel									
12 in	80	0 °	0.083 in	1 in	1,800 RPM	No	0.071 in	Diablo	**52XF52**
14 in	90	0 °	0.083 in	1 in	1,800 RPM	No	0.071 in	Diablo	**52XF54**

Carbide Tipped for Solid Stock 34NL91

Carbide Tipped for Thick Metal 52XF61

Metal Tipped for Soild Stock 4KX53

Fein DeWalt Diablo Westward

Aluminum & Soft Metal-Cutting Circular Saw Blades

These blades cut through aluminum, brass, copper, and other soft metals.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Solid Stock									
Aluminum, Ferrous Metals, Non-Ferrous Metals, Steel									
7 ¼ in	54	5°	0.078 in	25⁄32 in	5,800 RPM	No	0.375 in	Fein	**34NL91**
Aluminum, Non-Ferrous Metals									
5 ½ in	30	3°	0.059 in	⅝ in	7,000 RPM	No	0.038 in	DeWalt	**30HJ79**
5 ⅜ in	30	3°	0.059 in	25⁄32 in	7,000 RPM	No	0.039 in	DeWalt	**4LF42**
6 ½ in	36	3°	0.059 in	⅝ in	7,000 RPM	No	0.039 in	DeWalt	**5VC81**
7 ¼ in	48	5°	0.083 in	⅝ in	4,000 RPM	No	0.062 in	DeWalt	**30HJ80**
7 ¼ in	60	5°	0.083 in	⅝ in	4,000 RPM	No	0.062 in	DeWalt	**30HJ77**
9 in	48	10°	0.086 in	1 in	3,380 RPM	No	0.087 in	Fein	**21VJ42**
10 in	80	5°	0.11 in	⅝ in	6,000 RPM	No	0.098 in	DeWalt	**14K257**
12 in	80	5°	0.11 in	1 in	4,800 RPM	No	0.087 in	DeWalt	**5PGC7**
14 in	100	5°	0.126 in	1 in	4,000 RPM	No	0.098 in	DeWalt	**30HJ90**
Aluminum, Non-Ferrous Metals, Plastic									
10 in	80	5°	0.098 in	⅝ in	6,000 RPM	No	0.071 in	DeWalt	**4WLT3**
Carbide Tipped for Thick Metal									
Aluminum, Brass, Copper, Fiberglass, Non-Ferrous Metals, Plastic									
10 in	80	5 °	0.094 in	⅝ in	7,000 RPM	No	0.071 in	Diablo	**52XF61**
12 in	96	5 °	0.091 in	1 in	7,000 RPM	No	0.071 in	Diablo	**52XF62**
Aluminum, Non-Ferrous Metals									
7 ¼ in	38	2 °	0.083 in	¾ in	5,800 RPM	No	0.087 in	Diablo	**53WC06**
14 in	100	7 °	0.142 in	1 in	5,000 RPM	No	0.118 in	Diablo	**52XF86**
Carbide Tipped for Thin Metal									
6 ½ in	36	3°	0.071 in	⅝ in	8,000 RPM	No	0.047 in	Westward	**24EM37**
8 in	64	5 °	0.083 in	⅝ in	7,000 RPM	No	0.063 in	Diablo	**53WC05**
Aluminum, Non-Ferrous Metals, Plastic									
10 in	80	5°	0.11 in	⅝ in	7,000 RPM	No	0.087 in	Westward	**24EL75**
12 in	80	5°	0.11 in	1 in	6,500 RPM	No	0.087 in	Westward	**24EM05**
Metal Tipped for Solid Stock									
Aluminum, Non-Ferrous Metals									
7 ¼ in	68	15°	0.086 in	⅝ in	7,000 RPM	Yes	0.05 in	DeWalt	**4KX53**

Carbide Tipped for Combination Cutting 4YK26

Carbide Tipped for Ripping 4PC50

DeWalt Black & Decker

Nail-Embedded Wood-Cutting Circular Saw Blades

- 7000 rpm Max. Blade Speed

These saw blades cut through wood that contains nails and other non-hardened metal often encountered in construction and demolition applications.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide Tipped for Combination Cutting								
6 ½ in	18/24	20°	0.059 in	⅝ in	No	0.039 in	DeWalt	**5VC84** *
6 ½ in	48	5°	0.096 in	25⁄32 in	No	0.063 in	DeWalt	**3FRD8**
7 ¼ in	18	15°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**20GW22** †
7 ¼ in	18	20°	0.071 in	⅝ in	Yes	0.047 in	Black & Decker	**4YK26**
7 ¼ in	24	18°	0.063 in	⅝ in	Yes	0.039 in	DeWalt	**53DR68**
Carbide Tipped for Crosscutting								
7 ¼ in	60	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U43**
Carbide Tipped for Finishing								
7 ¼ in	36	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U42**
Carbide Tipped for Framing								
7 ¼ in	24	25°	0.061 in	⅝ in	Yes	0.039 in	DeWalt	**483U41**
Carbide Tipped for Ripping								
5 ⅜ in	16	20°	0.059 in	5⁄16 in	No	0.039 in	DeWalt	**4PC50**
7 ¼ in	18	15°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**4NZ53**
7 ¼ in	20	25°	0.071 in	⅝ in	Yes	0.045 in	DeWalt	**4NZ52**

**Pk. of 2 †Pk. of 10*

EATON | Aeroquip

Hose-Cutting Circular Saw Blades

These saw blades are used in hose chop saws to cleanly cut through soft rubber and plastic hose and tube.

Metal Tipped 19MR41

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Plate Thickness	Item No.
Metal Tipped for Wire Braided Rubber Hose							
10 in	45	10°	0.093 in	¾ in	3,600 RPM	0.093 in	**19MR42**
10 in	None	10°	0.093 in	¾ in	3,600 RPM	0.093 in	**19MR41**
14 in	24	10°	0.125 in	1 in	3,500 RPM	0.125 in	**19MR43**

DeWalt

Plastic & Composite-Cutting Circular Saw Blade

Good wear resistance when cutting through plastic and composite materials, such as cement fiberboard and plastic-laminated products.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Plate Thickness	Item No.
Carbide Tipped for Aluminum, Non-Ferrous Metals, Plastic							
12 in	96	5°	0.102 in	1 in	4,800 RPM	0.079 in	**1CRB8**

Fiber Cement-Cutting Circular Saw Blades

DeWalt Milwaukee Diablo

These saw blades cut through fiber cement panels such as Hardie board and Durock. They have have a low tooth count to help reduce silica and other dust when cutting. Poly-crystalline diamond (PCD) teeth cut through hard, abrasive material that cannot be cut using standard carbide blades. Fiber-cement board is used for backing panels and exterior siding.

Blade Dia.	No. of Teeth	Hook Angle	Cut Width	Arbor Size	Max. Blade Speed	Diamond Knockout	Plate Thickness	Brand	Item No.
Carbide for Solid Stock									
4 ½ in	24	20°	4.5 in	⅜ in	5,000 RPM	No	—	DeWalt	**55KH80**
Carbide Tipped for Fiber Cement									
10 in	6	10°	0.079 in	⅝ in	7,000 RPM	No	1.05 in	Milwaukee	**490R96**
12 in	8	10°	0.079 in	1 in	7,000 RPM	No	1.05 in	Milwaukee	**490R97**
7 ¼ in	4	10°	0.071 in	⅝ in	8,000 RPM	Yes	1.05 in	Milwaukee	**490R95**
Poly-Crystalline Diamond (PCD) Tipped for Fiber Cement									
7 ¼ in	4	10 °	0.071 in	⅝ in	12,000 RPM	Yes	0.051 in	Diablo	**52XF89**
7 ¼ in	4	12°	0.071 in	⅝ in	7,000 RPM	Yes	0.055 in	DeWalt	**53DR69**
Poly-Crystalline Diamond (PCD) Tipped for Thin Metal									
4 ½ in	4	12°	4.5 in	⅜ in	5,000 RPM	No	—	DeWalt	**55KH81**

Carbide Tipped for Fiber Cement 490R95

Poly-Crystaline Diamond (PCD) Tipped for Fiber Cement 53DR69

Portable Band Saws and Blades

- ½" blade width
- 0.02" blade thickness

Corded, handheld saws cut pipe, conduit, threaded rod, and structural elements. They use a blade that rotates around two wheels to make clean cuts and preserve threads when cutting threaded rod.

Compact
4FTJ2

Blade Length	SFPM Range	Number of Speed Settings	Current	Includes	Brand	Item No.
Compact 3 ¼ in Round Cutting Capacity						
35 ⅜ in	200 to 360	4	7.0 A	Carrying Case	Milwaukee	**4FTJ2**
Deep Cut 5 in Round Cutting Capacity						
44 ⅞ in	0 to 380	4	11.0 A	Tool Only	Milwaukee	**10D924**
44 ⅞ in	100 to 350	5	10.0 A	Blade, Hex Wrench	DeWalt	**3GRF7**
44 ⅞ in	300 to 380	2	11.0 A	Tool Only	Milwaukee	**10D926**
44 ⅞ in	300 to 380	2	11.0 A	Carrying Case	Milwaukee	**10D927**

Primary Material Application	Teeth per Inch	Brand	Item No.	Pkg. Qty.
Deep Cut Blades				
44 ⅞ in Blade Length				
Metal	14/18	Morse	**784K61**	3
Metal	14	Milwaukee	**1Y956**	1
Compact Blades				
27 in Blade Length				
Metal	18	Milwaukee	**21U674**	3
Stainless Steel	12/14	Milwaukee	**494F49**	3
28 13/16 in Blade Length				
Stainless Steel	10/14	Morse	**40L144**	3
Stainless Steel	14/18	Morse	**40L145**	3

Primary Material Application	Teeth per Inch	Brand	Item No.	Pkg. Qty.
Standard Cut Blades				
32 ⅞ in Blade Length				
Metal	18	Westward	**46TX86**	3
Metal	24	Westward	**46TX94**	3
Metal	14/18	Westward	**46TY02**	3
Stainless Steel	14/18	Morse	**40L147**	3
35 ⅜ in Blade Length				
Metal	10	Milwaukee	**4PAA9**	3
Metal	14	Westward	**46TX90**	3
Metal	18	Westward	**46TX88**	3
Stainless Steel	8/10	Milwaukee	**494F45**	3
Stainless Steel	12/14	Milwaukee	**494F53**	25
Deep Cut Blades				
44 ⅞ in Blade Length				
Metal	10/14	Milwaukee	**1Y966**	3
Metal	14	Milwaukee	**1Y957**	3
Metal	18	Milwaukee	**1Y960**	3
Metal	14/18	Milwaukee	**3ZX11**	3
Metal	24	Milwaukee	**1Y963**	3
Stainless Steel	14	Morse	**4XJ89**	3
Stainless Steel	18	Morse	**4GY70**	25

Cold Saws and Blades

High-Speed
31XU77

These saws have toothed blades and make precise cuts in metal. Coolant keeps the blade and workpiece cool during high-volume cutting applications in metal fabrication and machine shops.

High-speed saws cut plastic, aluminum, and other nonferrous metals at high speeds. **Low-speed** saws spin at lower speeds than high-speed saws and cut steel, stainless steel, and other ferrous metals.

Blade Dia. - English	No. of Teeth	Brand	Item No.
Cold Saw Blades			
Solid Stock			
14 in	60	Palmgren	**5TPA4**
14 ½ in	100	Dayton	**499F55**
Thick Metal			
14 in	120	Palmgren	**5TPA3**
Thin Metal			
10 in	180	Palmgren	**5TNZ8**
14 in	220	Palmgren	**5TPA2**
14 ½ in	220	Dayton	**499F57**
14 in	280	Palmgren	**5TPA1**
14 ½ in	280	Dayton	**499F58**

Blade Dia.	Blade Speed	Round Cut Capacity @ 0 Deg.	Arbor Size	Blade Mounting Holes	Voltage	Current	Brand	Mfr. Model	Item No.
High Speed Cold Saws									
Automatic Material Feed									
18 in	3,200 RPM	6 in	1 in	32mm	220V AC	25 A	Baileigh	CS-400AV	**31XU77**
Manual Material Feed									
13 ¾ in	1,750 RPM, 3,500 RPM	4 ½ in	1 ¼ in	2/11/63	220V AC	12 A, 24 A	JET	414203K	**36VD91**
13 ¾ in	1,750 RPM, 3,500 RPM	4 ½ in	1 ¼ in	2/11/63	440V AC	12 A, 24 A	JET	414207K	**36VD93**
14 in	3,200 RPM	4 ⅜ in	1 in	32mm	220V AC	16 A	Baileigh	CS-355M	**31XU75**
Semi-Automatic Material Feed									
14 in	3,200 RPM	4 ⅜ in	1 in	32mm	220V AC	16 A	Baileigh	CS-355SA	**31XU76**
Low Speed Cold Saws									
Automatic Material Feed									
14 ⅝ in	25 to 50 RPM	5 ⅛ in	1 ¼ in	2/11/63, 2/8/45	230V AC	16 A	Dayton	499F53	**499F53**
17 in	35 RPM, 60 RPM, 70 RPM, 120 RPM	4 15/16 in	1 ¼ in	32mm	220V AC	30 A	Baileigh	CS-475AV	**31XU78**
Manual Material Feed									
10 in	44 RPM	2 ¾ in	1 ¼ in	2 /8/45	110V AC	20 A	Dake	974250	**40F065**
11 in	54 RPM	3 ¼ in	1 ¼ in	32mm	110V AC	25 A	Baileigh	CS-275EU	**31XU68**
12 ½ in	22 RPM, 44 RPM	3 ⅝ in	1 ¼ in	2 /8/45	220V AC/440V AC	20 A	Dake	974315-2	**444F29**
14 in	26 RPM, 52 RPM	4 ⅜ in	1 ¼ in	32mm	220V AC	10.5 A	Baileigh	CS-350P	**31XU73**
14 in	40 to 80 RPM	4 ⅓ in	1 ¼ in	2/11/63, 2/8/45	230V AC	10 A	Dayton	499F51	**499F51**
Semi-Automatic Material Feed									
14 in	20 to 105 RPM	4 ¾ in	1 ¼ in	2 /8/45	220V AC/440V AC	20 A	Dake	974355-2	**40F069**
17 in	40 to 240 RPM	4 15/16 in	1 ¼ in	32mm	220V AC	27 A	Baileigh	CS-C485SA	**31XU81**

Chop Saws

21VJ43

- Toothed Blade

Make straight cuts in metal. These saws have a fence to support the workpiece, and they adjust for angled and miter cuts. They spin at a lower rpm and produce less sparking than cut-off saws, which reduces heat buildup in the blade and workpiece. Hose chop saws cut through rubber and plastic hose.

Blade Dia.	Round Cut Capacity @ 0 Deg.	Max. Blade Speed	Brand	Item No.
Chop Saws				
12 in	4 ½ in	1,500 RPM	Skilsaw	**48KR92**
12 in	4 ½ in	1,700 RPM	Makita	**1GUB1**
14 in	5 ⅛ in	1,300 RPM	Fein	**21VJ43**
14 in	5 3/16 in	1,300 RPM	DeWalt	**4YL17**
Hose Chop Saw				
14 in	2 ¼ in	3,500 RPM	Eaton Aeroquip	**19MR40**

Cut-Off Machines

Benchtop
38D142

- Continuous-rim abrasive blade

Make straight or angled cuts in metal alloys and other hard materials in machine shops, fabrication, and maintenance applications.

Blade Dia.	Max. Blade Speed	Round Cut Capacity @ 0 Deg.	Miter Angle Range	Voltage	Current	Brand	Item No.
Benchtop							
14 in	3,800 RPM	4 ½ in	0 to 45°	120V AC	15 A	Makita	**14U141**
14 in	3,800 RPM	5 in	0 to 45	120V AC	15 A	Makita	**53YK07**
14 in	4,100 RPM	4 ¾ in	-15 to 45°	240V AC	15 A	Metabo	**38D142**
Cabinet Style							
12 in	4,200 RPM	3 ⅞ in	90°	240V AC	14 A	Jet	**53ZC55**
12 in	4,200 RPM	4 11/16 in	90°	240V AC	14 A	Jet	**53ZC56**
14 in	4,300 RPM	4 ½ in	0 to 45°	220V AC	20 A	Baileigh Industrial	**31XT81**

Abrasive Cut-Off Wheels Diameter 10" to 20" Dia.

Type 1
5LTZ8

Have various types of abrasive material for multiple cutting applications.

Aluminum Oxide—For cutting and grinding ferrous metal, gray iron, stainless, nonferrous materials, aluminum, and pipeline.

Zirconia Alumina—For aggressive material removal on stainless steel.

Silicon Carbide—Suitable for cutting nonferrous materials.

Ceramic—Use for fast cutting on almost all materials, including stainless steel, mild steel, and aerospace alloys.

Abrasive Wheel Diameter	Arbor Hole Size	Thickness	Abrasive Material	Max. RPM	Series	Item No.
Type 1						
Norton						
10 in	1¼ in	0.06 in	Aluminum Oxide	6,110 RPM	A60	**2D759**
12 in	1 in	0.1094 in	Aluminum Oxide	5,095 RPM	Gemini	**6A104**
12 in	1 in	0.125 in	Aluminum Oxide	5,095 RPM	Gemini Long Life	**6A102**
14 in	1 in	0.0937 in	Aluminum Oxide	4,365 RPM	Gemini Free Cut Chopsaw	**25UA10**
14 in	1 in	0.0937 in	Aluminum Oxide	4,365 RPM	Gemini	**6A105**
14 in	1 in	0.1094 in	Zirconia Alumina	4,365 RPM	BlueFire Free Cut	**33N336**
14 in	1 in	0.125 in	Aluminum Oxide	4,365 RPM	Gemini Fast Cut	**3WW22**
14 in	1 in	0.125 in	Aluminum Oxide	4,365 RPM	Gemini Long Life	**6A103**
14 in	1 in	0.125 in	Zirconia Alumina	4,365 RPM	BlueFire	**33N521**
14 in	20mm	0.125 in	Aluminum Oxide	5,400 RPM	Norton Metal Heavy Duty High Speed	**4DDX1**
14 in	20mm	0.125 in	Aluminum Oxide	5,400 RPM	Gemini Metal	**12V887**
14 in	20mm	0.125 in	Silicon Carbide	5,400 RPM	Gemini Ductile	**12V891**
16 in	1 in	0.1094 in	Aluminum Oxide	3,820 RPM	Gemini	**5A932**
16 in	1 in	0.125 in	Zirconia Alumina	4,800 RPM	NorZon III	**6PL31**
16 in	1 in	0.125 in	Zirconia Alumina	4,800 RPM	NorZon III Fast Cut	**5VYN5**
16 in	1 in	0.1562 in	Aluminum Oxide	3,820 RPM	Gemini Long Life	**5A930**
20 in	1 in	0.1562 in	Aluminum Oxide	2,710 RPM	Gemini Fast Cut	**3VV70**
United Abrasives-Sait						
14 in	1 in	0.0937 in	Aluminum Oxide	4,400 RPM	Iron Worker™	**5LTZ6**
14 in	1 in	0.0937 in	Aluminum Oxide	4,400 RPM	Stud King(R)	**5LTZ5**
14 in	1 in	0.0937 in	Aluminum Oxide	4,400 RPM	EZ-Chop Attacker(R)	**5LTZ9**
14 in	1 in	0.0937 in	Aluminum Oxide	4,400 RPM	EZ-Chop(R)	**5LTZ4**
14 in	1 in	0.0937 in	Ceramic	4,400 RPM	Saitech Steel Worker(R)	**5LTZ8**

Bandfiles

Quickly grind and deburr ends of metal stock. Also blend, clean, polish, surface, and condition.

3LJ30

Belt Size	Features	Amps @ 120V	Tool Length	Tool Weight	Includes	Brand	Mfr. Model	Item No.
¼"-to-3/4" x 18"-to-24"	—	7 A	19	—	—	Dynabrade	40610	**11X738**
½" x 18"	1⅛ in x 18 in Arm Capacity, ⅝ to 11 in Spindle Thread	5.5 A	18 in	6 lb	3 Position Side Handle, Double Insulated, On/Off Paddle Switch	Milwaukee	6101-6	**3LJ30**
½"-to-3/4 x 18"	Sanding Head Pivots 360°	6 A	19 in	—	40610 Electric Dynafile II with 11203 Contact Arm and 11202 and 11204 Contact Arms, (8) Abrasive Belts, Platen Pads	Dynabrade	40611	**25H831**
1⅛" x 21"	1½ in Dust Collection Port, Exposed Front Pulley	5 A	15 in	4.6 lb	Multi Position Side Handle, 2 Ea 40, 60, 80, 100 And 120 Grit Abrasive Belts	Makita	9031	**1GUB9**

Belt Sander

Feature gear and belt drive, and flush sand capability.

Belt Size	No-Load SFPM*	Amps	Features	Tool Length	Tool Wt.	Mfr. Model	Item No.
3 in x 18 in	1050	6.0 A	Auto Track Belt Alignment, Built-in Vacuum Port, Clear View Dust Canister, Micro-filtration, Pressure Control Technology, Single Lever Belt Changes, Soft Grip	12 ¼ in	6.4 lb	7510-01	**19M482**

**Surface feet per minute.*

Drywall Sander

- 9" Pad
- 16.5" Power Cord

No Load RPM	Type of Sandpaper	Speed Type	Tool Length	Mfr. Model	Item No.
2400	Hook-and-Loop	Variable	63 in	DWE7800	**60NP22**

Random Orbit Sanders

39RV98

24T879

6XZU1

Pad Size	Orbits per Min.	Amps	Type of Sandpaper	Features	Tool Length	Tool Weight	Brand	Mfr. Model	Item No.
Corded Sanders									
4 ½ in x 4 in	12,000	2.0 A	¼ Sheet	Microfilter Dust Canister with Screw-Off Cap, Precision-Machined Aluminum Sanding Plate	10 in	2.7 lb	Bosch	GSS20-40	**48XY73**
4 ¼ in x 4 ½ in	12,000	2.4 A	¼ Sheet	Improved Paper Clamp, Locking Dust Port System, Low Vibration, Rubber Overmold Texture	10 ⅛ in	2.7 lb	DeWalt	DWE6411K	**39RW05**
4 ¼ in x 4 ½ in	13,500	2.0 A	¼ Sheet	Counter-Balanced Low-Vibration Design, Dual-Plane	9 in	2.3 lb	Porter Cable	380	**6XZU1**
4 ¼ in x 4 ½ in	14,000	2.3 A	¼ Sheet	Improved Paper Clamp, Locking Dust Port System, Low Vibration, Rubber Overmold Texture	10 ⅛ in	2.8 lb	DeWalt	DWE6411	**39RW26**
5 in	12,000	1.9 A	Hook-and-Loop	Controlled Finishing System Maintains Pad Speed, Dual-Plane Counter-Balanced Fan	11 in	3.0 lb	Porter Cable	382	**6XZU2**
5 in	12,000	3.0 A	Hook-and-Loop	Dust Sealed Switch, Improved Dust Collection, Low Vibration, Rubber Overmold	11 in	2.9 lb	DeWalt	DWE6421	**39RW24**
5 in	12,000	3.0 A	Hook-and-Loop		11 in	2.9 lb	DeWalt	DWE6421K	**39RV95**
5 in	12,000	3.0 A	PSA		11 in	2.9 lb	DeWalt	DWE6420	**39RV98**
5 in	8000 to 12,000	3.0 A	Hook-and-Loop	Dust Sealed Switch, Improved Dust Collection, Low Vibration Design, Rubber Overmold, Variable Speed	11 in	2.9 lb	DeWalt	DWE6423K	**39RW15**
5 in	0 to 3700	6.0 A	Hook-and-Loop	Adjustable Dust Shroud, Variable Speed Trigger Dial	9 ¼ in	4.0 lb	DeWalt	DWE6401DS	**24T879**
6 in	4000 to 10,000	2.7 A	Hook-and-Loop	Lock On Button, Speed Control	12 ⅛ in	5.2 lb	Makita	BO6030	**14F072**
6 in	2500 to 6800	4.5 A	PSA	Compact Lightweight Design, Two Position Removable Side Handle	11 ½ in	7 lb	Porter Cable	7346SP	**53DR79**
7 in	2500 to 4700	7.9 A	PSA	Lock On Button, Side Handle	8 ¼ in	4.6 lb	Makita	GV7000C	**6RA91**
Sander Accessories									
5" Diameter Plastic Back Up Pad				Grinder And Polishers With ⅝-11 Thread Mount, Sander			Makita	743025-8	**6RA94**
7" Diameter Rubber Back Up Pad				Grinder And Polishers With ⅝-11 Thread Mount, Sander			Makita	192978-2	**6RA95**

Handheld Planers

Bosch 39RY32

DeWalt 5VC66

Makita 14F142

W (in.)	Depth of Cut (in.)	No Load RPM	Amps @ 120V	Tool Length (In)	Includes	Tool Weight (lb.)	Mfr. Model	Item No.
Handheld Planers								
Bosch								
3 ¼ in	1/16 in	16,500 RPM	6.5	11 13/32 in	Blade Wrench, Dual-Mount Guide Fence, Overshoe for Fence, Reversible Woodrazor(TM) Blade, Shavings Bag	6.3	PL1632	**36WH96**
3 ¼ in	3/32 in	16,500 RPM	6.5	11 ⅛ in	Blade Wrench, Carrying Case, Shavings Bag, Straight Plastic Overshoe for Fence	6.3	PL2632K	**39RY32**
DeWalt								
3 ¼ in	1/16 in	17,000 RPM	5.5	11 ½ in	2 High-Speed Steel Blades, Blade Depth Setting Gauge, Blade Resharpening Tool, Rabbeting Fence, Socket Wrench	6	D26676	**5NAK0**
3 ¼ in	1/16 in	17,000 RPM	5.5	11 ½ in	2 Reversible Carbide Blades, Blade Depth Setting Gauge, Dust Adaptor, Kit Box, Rabbeting Fence, Socket Wrench	6	D26677K	**5NAK1**
3 ¼ in	3/32 in	15,000 RPM	7.0	12 ½ in	2 Carbide Blades, Carry Case, Rabbiting Fence	6.6	DW680K	**5VC66**
Makita								
3 ¼ in	3/32 in	17,000 RPM	6.5	11 ¼ in	Blade Gauge Set, Blade Set, Case, Wrench	5.7	KP0800K	**14F142**
3 ¼ in	5/32 in	16,000 RPM	7.5	11 ⅜ in	(1) 3¼ in Planer Blade, 2/pk,(1) Blade Gauge,(1) Socket Wrench,(1) Guide Rule	7.3	KP0810	**14F143**
4 ⅜ in	1/16 in	16,000 RPM	7.5	14 in	Blade Gauge Set, Blade Set,, Wrench	9.3	1912B	**14U128**
4 ⅜ in	3/16 in	15,000 RPM	9.6	13 11/32 in	Blade Gauge Set, Blade Set,, Wrench	11.4	1002BA	**14H007**
6 ¾ in	1/16 in	15,000 RPM	10.9	20 ¾ in	Blade Gauge Set, Blade Set,, Wrench	19.8	1806B	**14U127**
DeWalt Accessories								
Carbide Replacement Blades, Pk. of 2, For Use with No. 5VC66							DW6654	**4TG61**
HSS Replacement Blades, Pk. of 2, For Use with No. 5VC66							DW6655	**1PX40**

Scan. Order. Done.
Details on page A1.

Polishers

For additional polishing bonnets and pads, go to Grainger.com.

Random Orbital—Feature random, swirl free polishing action and suitable for cleaning and polishing vehicles, glass products, medical equipment, precision instruments, precious metals, and copper.

Right Angle—Models have their polishing head 90° to the tool body for working in corners, between surfaces, and in other tight spaces.

Wet—Use water for the wet polishing of granite, marble, and other types of rock. 53GK14 has a constant speed that automatically adjusts the motor strength for a constant and consistent RPM regardless of the pressure applied to the tool for better polishing results.

Random Orbital 3MUX6

Right Angle Polisher 10F050

Wet Polisher 53GK14

Pad Size	No Load RPM	Amps	Speed Type	Spindle Thread Size	Brand	Item No.
Random Orbital Polishers						
6 in	2,500 to 6,800	4.5 A	Variable	5/16"-24	Porter Cable	**3MUX6**
Right Angle Polishers						
7 in, 9 in	0 to 3,500	12.0 A	Variable	5/8"-11	DeWalt	**13J066**
9 in	500 to 1,500	15.0 A	Variable	5/8"-11	Fein	**54FH29**
10 in	900 to 2,500	12.0 A	Variable	5/8"-11	Fein	**10F050**
Wet Polishers						
4 in	1,000 to 4,500	8.0 A	Variable	5/8"-11	Hardin	**19TA94**
5 in	3,700	7.4 A	Constant	5/8"-11	Flex North America	**53GK14**

Description	Attachment Type	Dia.	Thickness	For Use With	Brand	Item No.
Polishing Bonnets and Pads						
Wool Polishing Bonnet	Elastic Band	7 in	1 ⅛ in	7 in Backing Plate	—	**12U063**
Wool Polishing Pad	Hook-and-Loop	7 ½ in	1 ½ in	6½ in Backing Plate	—	**12U069**
Foam Polishing Pad	Hook-and-Loop	8 in	1 ½ in	6½ in Backing Plate	—	**12U070**
Compound Pads						
Wool Polishing Pad	Hook-and-Loop	7 ½ in	1 ½ in	6½ in Backing Plate	—	**12U071**
Foam Buffing Pad	Hook-and-Loop	8 in	1 ½ in	6½ in Backing Plate	—	**12U072**

Surface Temperature Control Pistol-Grip Heat Guns

- Plug type: Two-prong

Variable temperature heat guns can automatically adjust their heat output to reach the target temperature required at the surface to heat, dry, or soften materials. Their sensor measures the temperature of the work surface rather than the temperature of air leaving the gun to help prevent scorching and overheating of temperature-sensitive materials.

2Q445

406P81

20G231

Temperature Range	Air Volume	LCD Display	Current	Includes	Brand	Item No.
Dual Settings						
570 ° to 1,000 °F	14.8 cfm	No	11.6 A	Bare Tool	Milwaukee	**6Z360**
Variable Settings						
100 ° to 1,040 °F	14.8 cfm	No	11.6 A	Bare Tool	Milwaukee	**2Q445**
120 ° to 1,100 °F	16 cfm	No	13 A	Cone Nozzle, Fishtail Surface Nozzle	DeWalt	**5JNK5**
120 ° to 1,150 °F	4 cfm	Yes	13.3 A	14mm Reflector Nozzle, 20mm Reducer Nozzle, 39mm Reflector Nozzle, 75mm Reducer Nozzle, 9mm Reducer Nozzle, Auto Body Welding DVD, Carrying Case, HL Scan, Plastic Welding Rods, Welding Nozzle	Steinel	**406P83**
	10.6 cfm	Yes	12.5 A	Bare Tool	Milwaukee	**5PP84**
120 ° to 1,200 °F	13 cfm	Yes	13.3 A	(16) Welding Rods, (2) Wire Mesh, 20mm Reducer Nozzle, 9mm Reducer Nozzle, Auto Body DVD, Auto Body Repair Guide, Carrying Case, HL Scan, Soldering Iron, Temperature Guard, Welding Iron	Steinel	**406P81**
150 ° to 1,100 °F	17.7 cfm	Yes	13 A	(10) Additional Accessories, Cone Nozzle, Fishtail Surface Nozzle, Kit Box	DeWalt	**20G231**
	17.7 cfm	Yes	13 A	Cone Nozzle, Fishtail Surface Nozzle	DeWalt	**5JNK6**
250 ° to 1,000 °F	9 cfm	No	10 A	Bare Tool	Westward	**4HWK1**
	9 cfm	No	10 A	Concentrator, Pin Point Concentrator, Reflector, Spreader, Storage Case	Westward	**4HWK2**

Pistol-Grip Heat Gun for Polyolefin and PVC Shrink Wrap

- Plug type: Three-prong

Corded heat gun has a single temperature setting that generates high-temperature air and directs it through a nozzle to shrink wrap packages. The low-velocity air flow helps prevent components from blowing around the workstation. Includes an adjustable heat gun stand and a heat shrink attachment that eases applying heat shrink wrap to packages.

Maximum Temperature	Temperature Range	Air Volume	Current	Item No.
650 °F	650 °F	3.8 cfm	2 A	**5PYR3**

Pistol-Grip Heat Gun for Polyethylene Shrink Wrap

- Propane fueled

Variable temperature settings and generates high-temperature air and directs it through a nozzle to shrink wrap packages. The two-speed fan allows for more control in handling shrink wrap. Dual in-line safety fuses to protect both user and machine. Includes a 25-ft. hose and regulator.

Minimum Temperature	Maximum Temperature	Item No.
600 °F	1,000 °F	**5URU8**

Standard Pistol-Grip Heat Guns

Pistol-grip allows users to squeeze the trigger as they grip the tool and direct high-temperature air onto materials to heat, dry, or soften them. They provide ergonomic handling in a range of positions on vertical and horizontal surfaces. Heat guns can be used to install heat shrink tubing, shape PVC pipes, strip paint, and activate adhesives.

Single Temp. (Stand Shown) 54XY04

Variable Temp. 55FD08

Variable Temp. (Stand Shown) 54XY12

Temperature Range	Air Volume	LCD Display	Current	Kit Contents	Brand	Item No.
Single Temperature Setting						
Three-Prong						
400 °F	27 cfm	No	5 A	(1) Bare Tool, (1) Stand	Master Appliance	**54XY01**
	27 cfm	No	5 A	(1) Bare Tool, (3) Attachments, (1) Carrying Case, (1) Stand	Master Appliance	**54XX99**
650 °F	3.8 cfm	No	4.5 A	(1) Bare Tool, (1) Attachment, (1) Stand	Master Appliance	**5HC24**
800 °F	27 cfm	No	12 A	(1) Bare Tool, (1) Stand	Master Appliance	**54XY05**
	27 cfm	No	12 A	(1) Bare Tool, (3) Attachments, (1) Carrying Case, (1) Stand	Master Appliance	**54XY04**
1,000 °F	16 cfm	No	11 A	(1) Bare Tool, (1) Stand	Master Appliance	**5PYP5**
1,200 °F	27 cfm	No	14.5 A	(1) Bare Tool, (1) Stand	Master Appliance	**54XY09**
	27 cfm	No	14.5 A	(1) Bare Tool, (3) Attachments, (1) Carrying Case, (1) Stand	Master Appliance	**54XY08**
1,400 °F	27 cfm	No	18.5 A	(1) Bare Tool, (1) Stand	Master Appliance	**54XY14**
Variable Temperature Setting						
Two-Prong						
110 ° to 930 °F	7 cfm	No	10 A	(1) Bare Tool	Master Appliance	**333HD2**
	7 cfm	No	10 A	(1) Bare Tool, (4) Attachments, (1) Flat Metal Scraper, (1) Scraper Handle with 3 Interchangeable Scraper Blades	Master Appliance	**333HD3**
120 ° to 1,100 °F	4 cfm	No	12 A	(1) Bare Tool	Steinel	**406P79**
	4 cfm	No	13.2 A	(1) Bare Tool	Steinel	**406P78**
	4 cfm	No	12 A	(1) Bare Tool, (4) Nozzles	Steinel	**406P86**
	4 cfm	No	13.2 A	(1) Bare Tool, (5) Nozzles	Steinel	**406P85**
120 ° to 1,150 °F	4 cfm	Yes	13.3 A	(1) Bare Tool	Steinel	**406P77**
	4 cfm	Yes	13.3 A	(1) Bare Tool, (5) Nozzles	Steinel	**406P84**
120 ° to 1,200 °F	4 cfm	Yes	13.5 A	(1) Bare Tool, (5) Nozzles	Steinel	**406P82**
122 ° to 1,022 °F	7 cfm	No	13 A	(1) Bare Tool, (1) Stand	Makita	**55FD08**
122 ° to 1,292 °F	13 cfm	Yes	14.6 A	(1) Bare Tool	Steinel	**406P75**
140 ° to 1,050 °F	15.4 cfm	No	11.7 A	(1) Bare Tool, (2) Nozzles	Steinel	**24A397**
176 ° to 1,202 °F	13 cfm	Yes	13.3 A	(1) Bare Tool	Steinel	**406P76**
572 ° to 932 °F	8.5 cfm	No	10.8 A	(1) Bare Tool	Steinel	**406P80**
600 ° to 950 °F	15.4 cfm	No	10.8 A	(1) Bare Tool	Steinel	**24A395**
Three-Prong						
100 ° to 1,200 °F	27 cfm	No	14.5 A	(1) Bare Tool, (1) Stand	Master Appliance	**54XY11**
	27 cfm	No	14.5 A	(1) Bare Tool, (3) Attachments, (1) Carrying Case, (1) Stand	Master Appliance	**54XY12**
130 ° to 1,000 °F	4 cfm	Yes	11 A	(1) Bare Tool, (1) Welding Tip, (1) Tacking Tip, (3) Attachments	Master Appliance	**5PYL9**
	4 cfm	Yes	11 A	(1) Bare Tool, (1) Stand	Master Appliance	**3ZLU1**
	4 cfm	Yes	11 A	(1) Bare Tool, (4) Attachments, (1) Connector, (1) Stand	Master Appliance	**3ZLU2**
	16 cfm	No	11 A	(1) Bare Tool	Master Appliance	**3KH79**
	16 cfm	No	11 A	(1) Bare Tool, (1) Attachment, (1) Stand	Master Appliance	**6NE97**
	16 cfm	No	11 A	(1) Bare Tool, (4) Attachments, (1) Connector	Master Appliance	**6NE91**
500 ° to 1,000 °F	16 cfm	No	11 A	(1) Bare Tool	Master Appliance	**3W771**
	16 cfm	No	11 A	(1) Bare Tool, (2) Attachments, (1) Carrying Case	Master Appliance	**6NE92**

220-240VAC Pistol-Grip Heat Guns

- Plug type: Three-prong

Run on higher voltage for use in facilities that operate equipment on 220 to 240VAC power. They generate high-temperature air and direct it through their nozzle to heat, dry, and soften materials. Pistol-grip allows users to squeeze the trigger as they grip the tool and direct high-temperature air onto the material. They provide ergonomic handling in a range of positions on vertical and horizontal surfaces. Can be used to install heat shrink tubing, shape PVC pipes, strip paint, and activate adhesives. **Variable Temperature Setting** heat guns allow a range of temperatures for a variety of tasks.

Single Temperature 54XY10

Voltage	Temperature Range	Air Volume	Current	Kit Contents	Item No.
Single Temperature Setting					
220V AC	400 °F	27 cfm	3 A	(1) Bare Tool, (1) Stand	**54XY02**
	800 °F	27 cfm	6 A	(1) Bare Tool, (1) Stand	**54XY06**
	1,200 °F	27 cfm	9 A	(1) Bare Tool, (1) Stand	**54XY10**
230V AC	1,000 °F	16 cfm	6.2 A	(1) Bare Tool	**31CE99**
Variable Temperature Setting					
220V AC	130 ° to 1,200 °F	27 cfm	9 A	(1) Bare Tool, (1) Stand	**54XY13**
230V AC	130 ° to 1,000 °F	16 cfm	6.2 A	(1) Bare Tool	**31CF05**
	500 ° to 1,000 °F	16 cfm	6.2 A	(1) Bare Tool	**31CF03**

Heat Blowers

- Air volume: 47 cfm
- Plug type: Three-prong

The larger barrel and more powerful motor produce a higher volume of hot air for greater surface-area coverage and more rapid action than heat guns. These heat blowers generate high-temperature air and direct it through their nozzle to heat, dry, and soften materials. Their built-in stand allows mounting on equipment and conveyor lines for hands-free, continuous use in industrial applications such as molding plastics, shrinking sleeves on wires and harnesses, applying shrink wrap film and bands, and drying ink or paint.

Temperature Range	Current	Kit Contents	Item No.
120V AC			
300 °F	10 A	(1) Bare Tool, (1) Stand	**5PYR0**
500 °F	14 A		**4Z717**
750 °F	18 A		**4Z718**
240V AC			
300 °F	5.2 A	(1) Bare Tool, (1) Stand	**5PYR1**
500 °F	7.3 A		**1YMJ9**
750 °F	9.4 A		**5PYR2**

120V AC 5PYR0

Compact Electro Magnet 40LJ21

Large Permanent Magnet 61KL86

Magnetic Drill Presses

These drill presses rotate annular cutters or other bits to make holes in structural steel, I-beams, pipe, and other metal workpieces. Their magnetic base sticks to ferrous metal surfaces and holds the drill in position as the cutting bit feeds into the material. Drill presses are corded to allow long run times for repetitive tasks. Compact presses fit into tighter spaces and have enough power and sufficient drill travel for most drilling applications. Large presses have a more powerful motor and longer drill travel (stroke) than compact models, drill into harder materials, and accept longer bits to drill deeper holes.

Variable Speed	Drilling Capacity in Steel	Drill Travel	Current	Power Down Feed Included	Coolant System	Brand	Item No.
Compact Magnetic Drill Presses							
Dual Coil Magnet Type							
Single Speed	1 1/4 in	3 9/16 in	11 A	No	Yes	Fein	**793LG1**
Electro Magnet Type							
Variable Speed	1 5/8 in	2 9/16 in	5 A	No	Yes	Slugger By Fein	**4KYN8**
Variable Speed	1 5/8 in	5 3/4 in	13 A	Yes	Yes	Milwaukee	**40LJ21**
Variable Speed	2 in	4 3/8 in	10 A	No	Yes	DeWalt	**163K54**
Permanent Magnet Type							
Variable Speed	1 3/8 in	5 5/16 in	8.4 A	No	Yes	Slugger By Fein	**61KL87**
Variable Speed	1 3/8 in	5 5/16 in	9.2 A	No	Yes	Slugger By Fein	**61KL89**
Variable Speed	1 5/8 in	5 3/4 in	13 A	Yes	Yes	Milwaukee	**40LJ22**
Large Magnetic Drill Presses							
Electro Magnet Type							
Single Speed	1/2 in	9 in	7.2 A	Yes	No	Milwaukee	**3F863**
Single Speed	3/4 in	9 in	12.5 A	Yes	No	Milwaukee	**4A939**
Variable Speed	1 3/8 in	10 1/4 in	9.5 A	No	Yes	Slugger By Fein	**472C16**
Variable Speed	1 3/8 in	10 1/4 in	12 A	No	Yes	Slugger By Fein	**54FH35**
Variable Speed	1 1/4 in	11 in	11.5 A	Yes	No	Milwaukee	**4A940**
Variable Speed	1 5/8 in	12 3/8 in	11 A	Yes	Yes	Slugger By Fein	**20UH22**
Variable Speed	1 3/4 in	12 3/8 in	12 A	No	Yes	Slugger By Fein	**20UH23**
Permanent Magnet Type							
Variable Speed	2 in	10 1/4 in	10.6 A	No	Yes	Slugger By Fein	**61KL86**
Variable Speed	3 in	11 in	14.2 A	No	Yes	Slugger By Fein	**61KL88**

Carbide-Tipped 415H55

Cobalt 4KYK4

High-Speed Steel 3TY49

One-Piece Alternate-Tooth Carbide 48Z627

Two-Piece Alternative-Tooth Carbide 4AK56

Annular Cutters and Sets

Install into magnetic-base drills, drill presses, and milling machines to make smooth-walled, burr-free holes in one pass. They use less power, create less torque, produce fewer chips, and drill to closer tolerances than standard twist drill bits.

Cutter Dia.	Max. Cutting Depth	Pilot Pin Included	Brand	Item No.
Carbide-Tipped Annular Cutters for Toughest Materials				
Bright (Uncoated), Weldon Flat Shank				
5/8"	2"	No	Milwaukee	**415H55**
3/4"	2"	No	Milwaukee	**415H57**
13/16"	2"	No	Milwaukee	**415H58**
13/16"	4"	No	Slugger	**20VH37**
7/8"	2"	No	Milwaukee	**415H59**
1"	2"	No	Milwaukee	**415H61**
1 1/16"	2"	No	Milwaukee	**415H62**
1 1/8"	2"	No	Milwaukee	**415H63**
1 1/4"	2"	No	Milwaukee	**415H65**
1 1/2"	2"	No	Milwaukee	**415H69**
2"	2"	No	Milwaukee	**415H74**
2 1/4"	2"	No	Milwaukee	**415H76**
2 1/4"	4"	No	Slugger	**20VH35**
TiN, Weldon Flat Shank				
3/4"	2"	No	Slugger	**4WNN2**
Cobalt Annular Cutters for Hard Materials				
Bright (Uncoated), Weldon Flat Shank				
5/8"	2"	No	Slugger	**4KYH5**
3/4"	2"	No	Slugger	**4KYH7**
13/16"	2"	No	Slugger	**4KYH8**
1"	2"	No	Slugger	**4KYJ2**
1 1/8"	2"	No	Slugger	**4KYJ4**
1 1/2"	2"	No	Slugger	**4KYJ9**
1 5/8"	2"	No	Slugger	**4KYK1**
1 3/4"	2"	No	Slugger	**4KYK2**
2"	2"	No	Slugger	**4KYK3**
TiN, Weldon Flat Shank				
7/16"	2"	No	Slugger	**4KYK4**
1/2"	1"	No	Slugger	**4WNL7**
1/2"	2"	No	Slugger	**4KYK5**
9/16"	1"	No	Slugger	**4WNL8**
5/8"	1"	No	Slugger	**4WNL9**
5/8"	2"	No	Slugger	**4KYK7**
11/16"	2"	No	Slugger	**4KYK8**
3/4"	2"	No	Slugger	**4KYK9**
13/16"	2"	No	Slugger	**4KYL1**
7/8"	1"	No	Slugger	**4KYF7**
7/8"	2"	No	Slugger	**4KYL2**
1"	1"	No	Slugger	**4KYF9**
1"	2"	No	Slugger	**4KYL4**
1 1/16"	2"	No	Slugger	**4KYL5**
1 1/4"	2"	No	Slugger	**4KYL8**
2"	2"	No	Slugger	**4KYN5**
High-Speed Steel Annular Cutters for General Cutting				
Black Oxide, Weldon Flat Shank				
1/2"	1"	No	Milwaukee	**3TY49**
1/2"	2"	No	Milwaukee	**21R643**
9/16"	2"	No	Milwaukee	**3HY25**
5/8"	1"	No	Milwaukee	**3HU91**
5/8"	2"	No	Milwaukee	**3HY26**
11/16"	1"	No	Milwaukee	**3HU92**
11/16"	2"	No	Milwaukee	**3HY28**
3/4"	1"	No	Milwaukee	**3HU93**
3/4"	2"	No	Milwaukee	**3HY29**
13/16"	1"	No	Milwaukee	**3HU94**
13/16"	2"	No	Milwaukee	**3HY30**
7/8"	1"	No	Milwaukee	**3HU95**
7/8"	2"	No	Milwaukee	**3HY31**
15/16"	2"	No	Milwaukee	**3HY32**
1"	1"	No	Milwaukee	**3HU97**
1"	2"	No	Milwaukee	**3HY33**
1 1/16"	2"	No	Milwaukee	**21R644**
1 1/8"	2"	No	Milwaukee	**21R645**
1 1/2"	2"	No	Milwaukee	**21R651**
1 5/8"	2"	No	Milwaukee	**21R653**
1 11/16"	2"	No	Milwaukee	**21R654**
2"	2"	No	Milwaukee	**21R659**
Bright (Uncoated), Weldon Flat Shank				
7/16"	1"	Yes	Slugger	**52JJ30**
7/16"	2"	Yes	Slugger	**52JJ57**
1/2"	1"	No	—	**4TGZ1**
1/2"	1"	Yes	Slugger	**52JJ31**
1/2"	2"	Yes	Slugger	**52JJ58**
9/16"	1"	No	—	**4TGZ2**
9/16"	1"	Yes	Slugger	**52JJ32**
9/16"	2"	No	—	**4THD4**
9/16"	2"	Yes	Slugger	**52JJ59**
5/8"	1"	No	—	**4TGZ3**
5/8"	1"	Yes	Slugger	**52JJ33**
5/8"	2"	No	—	**4THD5**
5/8"	2"	Yes	Slugger	**52JJ60**
21/32"	2"	No	Slugger	**20YP07**
11/16"	1"	Yes	Slugger	**52JJ34**
11/16"	2"	No	—	**4THD6**
11/16"	2"	Yes	Slugger	**52JJ61**
3/4"	1"	Yes	Slugger	**52JJ35**
3/4"	2"	No	—	**4THD7**
3/4"	2"	Yes	Slugger	**52JJ62**
3/4"	3"	No	Slugger	**30ED84**
13/16"	1"	No	—	**4TGZ6**
13/16"	1"	Yes	Slugger	**52JJ36**
13/16"	2"	No	—	**4THD8**
13/16"	2"	Yes	Slugger	**52JJ63**
13/16"	4"	No	Slugger	**30EE70**
7/8"	1"	Yes	Slugger	**52JJ37**
7/8"	2"	No	—	**4THD9**
7/8"	2"	Yes	Slugger	**52JJ64**
15/16"	1"	Yes	Slugger	**52JJ38**
15/16"	2"	Yes	Slugger	**52JJ65**
1"	1"	No	—	**4TGZ9**
1"	1"	Yes	Slugger	**52JJ39**
1"	2"	No	—	**4THE2**
1"	2"	Yes	Slugger	**52JJ66**
1 1/16"	1"	Yes	Slugger	**52JJ40**
1 1/16"	2"	No	—	**4THE3**
1 1/8"	1"	No	—	**4THA2**
1 1/8"	2"	No	—	**4THE4**
1 1/8"	2"	Yes	Slugger	**52JJ68**
1 1/4"	1"	No	—	**4THA4**
1 1/4"	1"	Yes	Slugger	**52JJ43**
1 1/4"	2"	No	—	**4THE6**
1 1/4"	2"	Yes	Slugger	**52JJ70**
1 1/4"	3"	No	Slugger	**30EE05**
1 5/16"	2"	Yes	Slugger	**52JJ71**
1 3/8"	1"	Yes	Slugger	**52JJ45**
1 3/8"	2"	Yes	Slugger	**52JJ72**
1 3/8"	3"	No	Slugger	**30EE10**
1 1/2"	1"	Yes	Slugger	**52JJ47**
1 1/2"	2"	No	—	**4THE9**
1 1/2"	2"	Yes	Slugger	**52JJ74**
1 1/2"	3"	No	Slugger	**30EE15**
1 9/16"	2"	Yes	Slugger	**52JJ75**
1 5/8"	2"	No	—	**4THF1**
1 5/8"	2"	Yes	Slugger	**52JJ76**
1 3/4"	2"	Yes	Slugger	**52JJ78**
1 7/8"	2"	Yes	Slugger	**52JJ80**
2"	2"	No	—	**4THF3**
2"	2"	Yes	Slugger	**52JJ82**
2"	3"	No	Slugger	**30EE31**
2 1/16"	2"	Yes	Slugger	**52JJ83**
2 1/2"	1"	No	Slugger	**20YN90**
2 1/2"	2"	No	Slugger	**20YP96**
2 1/2"	3"	No	Slugger	**30EE40**
2 3/4"	2"	No	Slugger	**20YR01**
3"	1"	No	Slugger	**20YN98**
3"	2"	No	Slugger	**20YR05**
3"	3"	No	Slugger	**30EE48**
TiN, Weldon Flat Shank				
3/4"	3"	No	Slugger	**30EE50**
1 1/2"	1"	No	Slugger	**20UU20**
2"	3"	No	Slugger	**30EE64**
2 1/2"	1"	No	Slugger	**19TG27**
2 1/2"	2"	No	Slugger	**30ED30**
2 5/8"	2"	No	Slugger	**30ED31**
3"	2"	No	Slugger	**30ED33**
One-Piece Alternate-Tooth Carbide-Tipped Annular Cutters				
Bright (Uncoated), Straight with Three Flats Shank				
9/16"	1/2"	Yes	Milwaukee	**48Z627**
11/16"	2"	Yes	Milwaukee	**3Y170**
13/16"	2"	Yes	Milwaukee	**3Y172**
15/16"	2"	Yes	Milwaukee	**48Z628**
1 1/16"	2"	Yes	Milwaukee	**48Z629**
Two-Piece Alternate-Tooth Carbide-Tipped Annular Cutters				
Bright (Uncoated), Tang Shank Shank				
9/16"	1"	No	Milwaukee	**48Z570**
5/8"	1"	No	Milwaukee	**48Z571**
Bright (Uncoated), Threaded Shank				
3/4"	2"	Yes	Milwaukee	**4AK56**
13/16"	2"	Yes	Milwaukee	**4AK57**
7/8"	2"	Yes	Milwaukee	**4AK58**
15/16"	2"	Yes	Milwaukee	**4AK59**
1"	2"	Yes	Milwaukee	**4AK60**
1 1/16"	2"	Yes	Milwaukee	**4AK61**
1 1/8"	2"	Yes	Milwaukee	**4AK62**
1 3/16"	2"	Yes	Milwaukee	**4AK63**
1 1/4"	2"	Yes	Milwaukee	**4AK64**
1 3/8"	2"	Yes	Milwaukee	**4AK66**
1 1/2"	2"	Yes	Milwaukee	**4AK68**
1 5/8"	2"	Yes	Milwaukee	**4AK70**
1 3/4"	2"	Yes	Milwaukee	**48Z593**
1 13/16"	2"	Yes	Milwaukee	**48Z595**
2"	2"	Yes	Milwaukee	**4AK76**
2 1/8"	2"	Yes	Milwaukee	**48Z603**
2 3/8"	2"	Yes	Milwaukee	**48Z606**
2 1/2"	2"	Yes	Milwaukee	**48Z607**
2 5/8"	2"	Yes	Milwaukee	**48Z609**
3"	2"	Yes	Milwaukee	**48Z612**
3 1/2"	2"	Yes	Milwaukee	**48Z616**
4"	2"	Yes	Milwaukee	**48Z619**

Number of Cutters	Maximum Cutting Depth	Cutter Diameters Included	Includes	Brand	Item No.
Annular Cutter Sets					
Black Oxide, Weldon Flat Shank					
6	1"	1 1/16",-11/16",-13/16",-15/16",-5/8",-9/16"	—	Milwaukee	**1DYE4**
9	2"	1 1/16",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/8",-9/16"	—	Milwaukee	**1DYE5**
Bright (Uncoated), Weldon Flat Shank					
5	1"	1 1/16",-11/16",-13/16",-15/16",-9/16"	—	Slugger	**53DP17**
5	1"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Case, Pilot Pin	Slugger	**53DP16**
5	1"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	—	**4THF4**
5	1"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	Slugger	**4NYC4**
5	2"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	—	**4THF5**
5	2"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	Slugger	**4NYC6**
11	1"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	(2) Pilot Pins, Case	Slugger	**53DP14**
11	1"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Case	Slugger	**4NYA9**
11	1"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Pilot Pin	—	**4THF6**
11	2"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Pilot Pin	—	**4THF7**
11	2"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Pilot Pin	Slugger	**4NYC2**
TiN, Weldon Flat Shank					
5	1"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	Slugger	**4NYC5**
5	2"	1 1/16",-11/16",-13/16",-15/16",-9/16"	—	Slugger	**53DP13**
5	2"	1 1/16",-11/16",-13/16",-15/16",-9/16"	Pilot Pin	Slugger	**4NYC7**
11	1"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Pilot Pin	Slugger	**4NYC1**
11	2"	1 1/16",-1",-1/2",-11/16",-13/16",-15/16",-3/4",-5/8",-7/16",-7/8",-9/16"	Pilot Pin	Slugger	**4NYC3**

Jobsite Field Offices

- 16 ga.
- For a complete list of features see Grainger.com

Extra-large job boxes have space to store tools and supplies. An adjustable work surface lays flat or sits at an incline and provides space for assembly work and paperwork. Multiple shelves and compartments provide storage, and hinged doors close different parts of the box.

1MCF8

Overall Dim.	Overall Height with Lid Open	Total Storage Capacity	No. of Shelves	Locking System	Body Finish	Handle Type	Brand	Item No.
39 ¼" W x 26 ¾" D x 48 ¼" H	73 ⅞"	16.5 cu ft	2	Padlockable, Recessed	Gloss Tan	Recessed Side	Knaack	**410Y53**
55" W x 30" D x 75" H	—	57.6 cu ft	2	Padlockable, Recessed	Gloss Tan	Recessed Side	Knaack	**410Y52**
60" W x 44" D x 83" H	85"	120.68 cu ft	6	Padlockable, Recessed	Gloss Tan	Recessed	Knaack	**14V855**
63" W x 33" D x 80" H	76 ½"	91 cu ft	11	Padlockable, Recessed	Matte Brown	—	Crescent Jobox	**489N29**
63" W x 42" D x 80" H	84"	100 cu ft	3	Padlockable	Matte Brown	Recessed	Crescent Jobox	**1MCF8**

Jobsite Boxes

- Padlockable

Provide a large space to store and secure tools at indoor and outdoor worksites. Heavy-gauge steel. Weather-resistant.

Chest-style—A wide, undivided interior stores tool boxes, tool organizers, and long or bulky tools. Hinged lid lifts for access to load and unload the box.

Chest-style with drawers—Provide additional space to sort and organize tools.

Drop-front—Hinged lid lifts to fully open the top, and a front panel folds down to form a ramp for moving large tools and equipment in and out of the box.

Piano-style—Stand taller than chest-style boxes for increased storage capacity. Multi-panel, hinged lid lifts and folds together to open the front and top of the box.

Piano-style with drawers—Provide additional space to sort and organize tools.

Slope-lid—Angled sides allow the lid to slant downwards to keep water and debris from collecting on top of the box.

Overall Dim.	Overall Height with Lid Open	Total Storage Capacity	No. of Shelves	Body Finish	Body Gauge	Handle Type	Brand	Item No.
Chest-Style Jobsite Boxes								
16" W x 30" D x 12" H	—	3.3 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R538**
24" W x 48" D x 28" H	49 ⅞"	16 cu ft	0	Gloss Gray	16 ga	Recessed Side	Better Built	**61DD75**
24" W x 60" D x 28" H	49 ⅞"	20 cu ft	0	Gloss Gray	16 ga	Recessed Side	Better Built	**61DD76**
28" W x 12" D x 12" H	—	2.3 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R537**
30" W x 16" D x 12" H	12 ½"	3.3 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**6YG34**
30" W x 20" D x 19 ¾" H	34 ⅛"	5 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR25**
31" W x 18" D x 13" H	27 ½"	3.3 cu ft	0	Matte Blue	14 ga	Recessed	Westward	**499N12**
32" W x 19" D x 18 ½" H	34 ½"	5 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R535**
36" W x 19" D x 21 ½" H	37 ½"	7 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R534**
36" W x 20" D x 27 ½" H	41 ⅞"	9 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR26**
37 ¼" W x 25 ⅞" D x 28 ⅛" H	50 ⅛"	14 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UW11**
37 ¼" W x 25 ⅞" D x 25 ⅛" H	58 ⅛"	12 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UV98**
42" W x 19" D x 23 ⅜" H	39 ½"	9 cu ft	0	Gloss Tan	16 ga	Recessed	Knaack	**13R533**
42" W x 20" D x 27 ½" H	41 ¾"	10.5 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR27**
48" W x 24" D x 28 ¼" H	49 ¼"	16 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R531**
48" W x 24" D x 30 ¾" H	49 ⅛"	16.7 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR28**
48" W x 30" D x 34 ¼" H	61"	25.25 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**13R528**
48" W x 30" D x 36 ¾" H	61 ¼"	25.6 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR30**
48" W x 30" D x 35" H	62"	17 cu ft	0	Gloss Tan	16 ga	Recessed Side	Knaack	**20UR03**
49 ¼" W x 25 ⅞" D x 28 ⅛" H	70 ⅛"	16 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UW03**
49 ¼" W x 25 ⅞" D x 44 ¾" H	82 ⅛"	24 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UW09**
60" W x 24" D x 28 ¼" H	49 ¼"	20.25 cu ft	0	Gloss Tan	16 ga	Recessed	Knaack	**13R527**
60" W x 24" D x 30 ¾" H	49 ⅛"	21 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR29**
61 ¼" W x 25 ⅞" D x 25 ⅛" H	87 ⅛"	20 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UW12**
61 ¼" W x 25 ⅞" D x 31 ⅛" H	88 ⅛"	25 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UV99**
61 ¼" W x 25 ⅞" D x 40 ⅛" H	94 ⅛"	25 cu ft	0	Gloss Silver	14 ga	Folding Side	Vestil	**39UW07**
66" W x 30" D x 36" H	—	31 cu ft	0	Gloss Tan	16 ga	Recessed	Knaack	**14V866**
72" W x 24" D x 28 ¼" H	49 ¼"	24.5 cu ft	0	Gloss Tan	16 ga	Recessed	Knaack	**13R526**
72" W x 24" D x 30 ¾" H	49 ⅛"	25.3 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR31**
Chest-Style Jobsite Boxes with Drawers								
30" W x 48" D x 27" H	—	20 cu ft	0	Matte Brown	16 ga	Recessed Side	Crescent Jobox	**61CU17**
Drop-Front Jobsite Boxes								
60" W x 31" D x 45" H	72 ⅞"	41.5 cu ft	0	Matte Brown	16 ga	Recessed	Crescent Jobox	**4AXX2**
Piano-Style Jobsite Boxes								
30" W x 60" D x 49" H	79 ½"	47.8 cu ft	0	Gloss Gray	16 ga	Recessed Side	Better Built	**61DD79**
48" W x 30" D x 49" H	78"	36.2 cu ft	1	Gloss Tan	16 ga	Recessed Side	Knaack	**53KJ66** *
48" W x 30" D x 49" H	78"	36.2 cu ft	3	Gloss Tan	16 ga	Recessed Side	Knaack	**36FW28**
48" W x 30" D x 49" H	78"	38.2 cu ft	1	Gloss Tan	16 ga	Recessed Side	Knaack	**53KJ64** *
48" W x 30" D x 49" H	78"	38.2 cu ft	2	Gloss Tan	16 ga	Recessed Side	Knaack	**13R523**
48" W x 31" D x 51" H	81 ½"	39.1 cu ft	2	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR32**
60" W x 30" D x 34 ¼" H	66"	35.3 cu ft	1	Gloss Tan	16 ga	Recessed	Knaack	**13R524**
60" W x 31" D x 39" H	69 ⅜"	36.5 cu ft	1	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR37**
60" W x 30" D x 49" H	78"	43.8 cu ft	1	Gloss Tan	16 ga	Recessed Side	Knaack	**53KJ67** *
60" W x 30" D x 49" H	78"	43.8 cu ft	4	Gloss Tan	16 ga	Recessed Side	Knaack	**36FW29**
60" W x 30" D x 49" H	78"	47.8 cu ft	1	Gloss Tan	16 ga	Recessed Side	Knaack	**53KJ65** *
60" W x 30" D x 49" H	78"	47.8 cu ft	2	Gloss Tan	16 ga	Recessed Side	Knaack	**13R522**
60" W x 31" D x 51" H	81 ½"	48.9 cu ft	2	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR33**
60" W x 31" D x 51" H	82 ⅛"	48.9 cu ft	2	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR34**
61" W x 35" D x 50" H	78 ⅜"	49.8 cu ft	6	Matte Blue	14 ga	Recessed	Westward	**499N10**
66" W x 30" D x 54 ½" H	80"	48 cu ft	2	Gloss Tan	16 ga	Recessed	Knaack	**13R512**
72" W x 30" D x 49" H	79"	57.5 cu ft	2	Gloss Tan	16 ga	Recessed	Knaack	**13R517**
74" W x 31" D x 51" H	82 ⅛"	60.3 cu ft	2	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR35**
74" W x 35" D x 64" H	98 ¾"	87.4 cu ft	3	Matte Brown	16 ga	Recessed	Crescent Jobox	**55KR36**
Piano-Style Jobsite Boxes with Drawers								
31" W x 60" D x 57" H	—	20 cu ft	2	Matte Brown	16 ga	—	Crescent Jobox	**61CU19**
31" W x 48" D x 57" H	—	44.45 cu ft	2	Matte Brown	16 ga	—	Crescent Jobox	**61CU18**
Slope-Lid Jobsite Boxes								
30" W x 60" D x 37 ⅝" H	79 ½"	31 cu ft	0	Gloss Gray	16 ga	Recessed Side	Better Built	**61DD80**
60" W x 30" D x 40" H	64 ⅜"	30.4 cu ft	1	Matte Blue	14 ga	Recessed	Westward	**499N11**
60" W x 30" D x 39 ½" H	65 ¾"	32.7 cu ft	1	Matte Brown	16 ga	Recessed	Crescent Jobox	**1MCF3**

** Recessed Padlockable*

Chest-Style
499N12

Drop Front
Jobsite Chest
4AXX2

Piano-Style
13R522

Slope-Lid
1MCF3

Jobsite Cabinets

- 16 ga.

Feature interior shelves to organize and store tools and supplies.

Clamshell jobsite cabinets—Open into two halves that swing out on casters and fold in on a central hinge.

Jobsite cabinets—Hinged doors swing out to the side for access to load and unload the cabinet.

Clamshell
13R511

Jobsite Cabinet
6ZEZ4

Jobsite Cabinet
6YG51

Jobsite Cabinet
423L25

Overall Dim.	Overall Height with Lid Open	Total Storage Capacity	No. of Shelves	Locking System	Body Finish	Handle Type	Brand	Item No.
Clamshell Jobsite Cabinets								
30"-W x 30"-D x 63½"-H	63½"	58 cu ft	6	Padlockable	Matte Brown	High Center	Crescent Jobox	**6YG48**
60"-W x 30"-D x 65"-H	65"	60.9 cu ft	4	Padlockable	Gloss Tan	Recessed Side	Knaack	**13R511**
Jobsite Cabinets								
26⅞"-W x 26⅞"-D x 40⅝"-H	40⅝"	30.6 cu ft	0	Padlockable	Matte Brown	Push	Crescent Jobox	**8RT51**
33"-W x 16"-D x 36"-H	36"	10.75 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed Lid	Knaack	**14V867**
48"-W x 28"-D x 52"-H	52"	37.3 cu ft	3	Padlockable	Matte Green	(4) Welded Tube	Greenlee	**6ZEZ4**
60"-W x 24"-D x 60"-H	60"	47.5 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed	Knaack	**13R516**
60"-W x 30"-D x 60"-H	60"	54.9 cu ft	4	Padlockable, Recessed	Gloss Tan	Recessed	Knaack	**13R503**
60"-W x 30"-D x 60"-H	60"	59.4 cu ft	3	Padlockable, Recessed	Gloss Green	Recessed Side	Knaack	**494N29**
60"-W x 30"-D x 60"-H	60"	59.4 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed	Knaack	**13R510**
60"-W x 24"-D x 60"-H	60"	59.4 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed Side	Knaack	**423L24**
60"-W x 28"-D x 61"-H	60¾"	48.3 cu ft	9	Padlockable	Matte Blue	Recessed	Westward	**499N09**
60"-W x 30"-D x 65"-H	65"	60.9 cu ft	4	Padlockable	Gloss Tan	Recessed	Knaack	**423L26**
60⅛"-W x 24¼"-D x 60¾"-H	60¼"	47.5 cu ft	12	Padlockable	Matte Brown	Folding Side	Crescent Jobox	**6YG50**
60⅛"-W x 24¼"-D x 60¾"-H	60¾"	47.5 cu ft	9	Padlockable	Matte Brown	Folding Side	Crescent Jobox	**6YG51**
60⅛"-W x 30¼"-D x 60¾"-H	60¾"	58.7 cu ft	4	Padlockable	Matte Brown	Recessed	Crescent Jobox	**2VUY2**
60⅛"-W x 30¼"-D x 60¾"-H	60¾"	58.7 cu ft	11	Padlockable	Matte Brown	Folding Side	Crescent Jobox	**6YG52**
60⅛"-W x 32¼"-D x 60¾"-H	60¾"	63.7 cu ft	8	Padlockable	Matte Brown	Recessed	Crescent Jobox	**2VUY3**
66"-W x 30"-D x 54½"-H	54½"	52 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed	Knaack	**13R509**
72"-W x 30"-D x 51"-H	51"	48 cu ft	3	Padlockable, Recessed	Gloss Tan	Recessed Side	Knaack	**423L25**
72"-W x 24"-D x 61"-H	61"	49 cu ft	11	Padlockable	Matte Brown	Recessed	Crescent Jobox	**6YG49**

Light-Duty, Workstation-Height Rolling Tool Cabinets

- Keyed locking system

Support lighter loads and withstand less frequent use than heavy- and premium-duty cabinets.

3 Drawers
48RJ73

4 Drawers
31CE51

11 Drawers
53RH52

10 Drawers
60HT43

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Total Storage Capacity	Total Load Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Brand	Mfr. Model	Item No.
Less than 30 in Wide										
3 Drawers										
28 ¾" W x 18 ⅛" D x 33 ⅞" H	Gloss Red	Red	Ball Bearing	9,799 cu in	660 lb	55 lb	21 ga	Westward	48RJ73	**48RJ73**
5 Drawers										
26 ½" W x 18" D x 37 ½" H	Gloss Black	Black	Ball Bearing	9,266 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST22751BK	**60HT37**
	Gloss Red	Black	Ball Bearing	9,266 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST22751RB	**60HT25**
26 ½" W x 18" D x 34" H	Gloss Red	Black	Ball Bearing	8,082 cu in	650 lb	100 lb	18 ga	Craftsman	CMST22752RB	**60HT29**
28 ¾" W x 18 ⅛" D x 33 ⅞" H	Gloss Red	Red	Ball Bearing	6,074 cu in	660 lb	55 lb	21 ga	Westward	48RJ74	**48RJ74**
29 ⅞" W x 18 ⅛" D x 34 ¼" H	Silver	Silver	Auto-Return	7,796 cu in	770 lb	99 lb	19 ga	Westward	53RH49	**53RH49**
30 in to 39 in Wide										
3 Drawers										
34 ⅜" W x 19 ½" D x 39 ⅜" H	Gloss Red	Red	Ball Bearing	10,813 cu in	660 lb	66 lb	21 ga	Westward	31CE55	**31CE55**
4 Drawers										
34 ⅜" W x 19 ½" D x 33 ⅜" H	Gloss Black	Black	Ball Bearing	7,350 cu in	660 lb	66 lb	21 ga	Westward	31CE51	**31CE51**
5 Drawers										
34 ⅜" W x 19 ½" D x 39 ⅜" H	Gloss Red	Red	Ball Bearing	9,459 cu in	660 lb	66 lb	21 ga	Westward	31CE53	**31CE53**
37" W x 18" D x 37 ½" H	Gloss Red	Black	Ball Bearing	13,711 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST98223RB	**60HT39**
40 in to 49 in Wide										
6 Drawers										
41" W x 18" D x 34" H	Gloss Red	Black	Ball Bearing	12,681 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST24160RB	**60HT28**
10 Drawers										
41" W x 18" D x 37 ½" H	Gloss Black	Black	Ball Bearing	14,062 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST24110BK	**60HT41**
	Gloss Red	Black	Ball Bearing	14,062 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST24110RB	**60HT26**
11 Drawers										
45 ¼" W x 18 ⅞" D x 40" H	Silver	Silver	Auto-Return	14,268 cu in	1,200 lb	99 lb	19 ga	Westward	53RH52	**53RH52**
50 in to 59 in Wide										
10 Drawers										
50 ⅞" W x 28 ¾" D x 40 ⅛" H	Matte Gray	Red	Auto-Return	28,789 cu in	1,210 lb	88 lb	21 ga	Westward	48ZF02	**48ZF02**
52" W x 18" D x 37 ½" H	Gloss Black	Black	Ball Bearing	18,532 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST25210BK	**60HT43**
	Gloss Red	Black	Ball Bearing	18,532 cu in	1,500 lb	100 lb	18 ga	Craftsman	CMST25210RB	**60HT27**

KENNEDY PROTO® WESTWARD CRAFTSMAN®

Heavy-Duty, Workstation-Height Rolling Tool Cabinets

- Keyed locking system

Support heavier loads and withstand more frequent use than light-duty cabinets.

7 Drawers 54DM87

13 Drawers 32H893

20 Drawers 48UY98

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Total Storage Capacity	Total Load Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Brand	Mfr. Model	Item No.
Less than 30 in Wide										
3 Drawers										
27" W x 18" D x 35" H	Matte Brown	Brown	Ball Bearing	9,330 cu in	1,400 lb	120 lb	18 ga	Kennedy	273XB	**54DN22**
4 Drawers										
27" W x 22 ⅜" D x 38 ½" H	Gloss Black	Black	Ball Bearing	9,597 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV2739RS04BK	**60FF76**
5 Drawers										
26 ¾" W x 18" D x 33 25/64" H	Gloss Black	Black	Auto-Return	7,303 cu in	1,320 lb	200 lb	20 ga	Westward	32H895	**32H895**
	Powder Coated Blue	Blue	Auto-Return	7,303 cu in	1,320 lb	200 lb	20 ga	Westward	32H894	**32H894**
	Powder Coated Blue	Blue	Auto-Return	7,303 cu in	1,320 lb	200 lb	20 ga	Westward	32H896	**32H896**
27" W x 18" D x 35" H	Matte Brown	Brown	Ball Bearing	9,045 cu in	1,400 lb	120 lb	18 ga	Kennedy	275XB	**54DN20**
29" W x 20" D x 35" H	Matte Brown	Brown	Ball Bearing	11,008 cu in	1,400 lb	120 lb	18 ga	Kennedy	295XB	**54DM89**
7 Drawers										
26 ¾" W x 18" D x 39 ½" H	Gloss Red	Red	Auto-Return	9,330 cu in	1,320 lb	200 lb	20 ga	Westward	32H888	**32H888**
	Powder Coated Black	Black	Auto-Return	9,330 cu in	1,320 lb	200 lb	20 ga	Westward	32H889	**32H889**
	Powder Coated Blue	Blue	Auto-Return	9,330 cu in	1,320 lb	200 lb	20 ga	Westward	32H890	**32H890**
27" W x 22 ⅜" D x 38 ½" H	Gloss Red	Gray	Ball Bearing	7,981 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV2739RS07RG	**60FF80**
27" W x 18" D x 35" H	Matte Brown	Brown	Ball Bearing	5,977 cu in	1,400 lb	120 lb	18 ga	Kennedy	277XB	**54DN18**
29" W x 20" D x 35" H	Gloss Red	Red	Ball Bearing	9,885 cu in	1,400 lb	120 lb	18 ga	Kennedy	297XR	**253C96**
	Matte Brown	Brown	Ball Bearing	9,885 cu in	1,400 lb	120 lb	18 ga	Kennedy	297XB	**54DM87**
8 Drawers										
27" W x 22 ⅜" D x 38 ½" H	Gloss Red	Gray	Ball Bearing	8,618 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV2739RS08RG	**60FF85**
	Gloss Red	Red	Ball Bearing	8,618 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV2739RS08RD	**60FF89**
27" W x 18" D x 39" H	Matte Brown	Brown	Ball Bearing	9,487 cu in	1,400 lb	120 lb	18 ga	Kennedy	378XB	**54DM76**
30 in to 39 in Wide										
7 Drawers										
34" W x 25 ¼" D x 41" H	Gloss Red	Red	Ball Bearing	15,390 cu in	3,600 lb	200 lb	14 ga	Proto	J553441-7RD	**48VA09**
8 Drawers										
34" W x 25 ¼" D x 41" H	Gloss Black	Black	Ball Bearing	15,134 cu in	3,600 lb	200 lb	14 ga	Proto	J553441-8DB	**48VA05**
	Gloss Red	Gray	Ball Bearing	15,134 cu in	3,600 lb	200 lb	14 ga	Proto	J553441-8SG	**48VA02**
34" W x 20" D x 39" H	Matte Brown	Brown	Ball Bearing	11,863 cu in	1,400 lb	120 lb	18 ga	Kennedy	348XB	**54DM80**
10 Drawers										
39 ⅜" W x 18" D x 35" H	Gloss Red	Red	Ball Bearing	11,864 cu in	1,400 lb	120 lb	20 ga	Kennedy	310XR	**414Y07**
	Matte Brown	Brown	Ball Bearing	11,864 cu in	1,400 lb	120 lb	18 ga	Kennedy	310XB	**54DM84**
15 Drawers										
39 ⅜" W x 18" D x 39" H	Matte Brown	Brown	Ball Bearing	13,381 cu in	1,400 lb	120 lb	18 ga	Kennedy	315XB	**54DM83**
40 in to 49 in Wide										
6 Drawers										
42" W x 19" D x 39 ⅞" H	Gloss Black	Black	Ball Bearing	15,426 cu in	1,540 lb	200 lb	20 ga	Westward	32H853	**32H853**
	Gloss Red	Red	Ball Bearing	15,426 cu in	1,540 lb	200 lb	20 ga	Westward	32H852	**32H852**
	Powder Coated Blue	Blue	Ball Bearing	15,426 cu in	1,540 lb	200 lb	20 ga	Westward	32H854	**32H854**
10 Drawers										
42" W x 25 ¾" D x 48 7/10" H	Matte Black	Black	Ball Bearing	25,950 cu in	3,000 lb	500 lb	14 ga	Westward	49NR89	**49NR89**
	Matte Red	Red	Ball Bearing	25,950 cu in	3,000 lb	500 lb	14 ga	Westward	49NR88	**49NR88**
11 Drawers										
42" W x 19" D x 39 ⅞" H	Gloss Black	Black	Ball Bearing	13,936 cu in	1,540 lb	200 lb	20 ga	Westward	32H856	**32H856**
	Gloss Red	Red	Ball Bearing	13,936 cu in	1,540 lb	200 lb	20 ga	Westward	32H855	**32H855**
	Powder Coated Blue	Blue	Ball Bearing	13,936 cu in	1,540 lb	200 lb	20 ga	Westward	32H857	**32H857**
13 Drawers										
42" W x 19" D x 39 ⅞" H	Gloss Black	Black	Auto-Return	13,785 cu in	1,540 lb	200 lb	20 ga	Westward	32H892	**32H892**
	Gloss Red	Red	Auto-Return	13,785 cu in	1,540 lb	200 lb	20 ga	Westward	32H891	**32H891**
	Powder Coated Blue	Blue	Auto-Return	13,785 cu in	1,540 lb	200 lb	20 ga	Westward	32H893	**32H893**
14 Drawers										
42" W x 22 ⅜" D x 38 ½" H	Gloss Black	Black	Ball Bearing	12,427 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV4239RD14BK	**60FF97**
	Gloss Blue	Blue	Ball Bearing	12,427 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV4239RD14BL	**60FF98**
	Gloss Gray	Gray	Ball Bearing	12,427 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV4239RD14DT	**60FF96**
	Gloss Red	Red	Ball Bearing	12,427 cu in	1,800 lb	200 lb	18 ga	Proto	JSTV4239RD14RD	**60FF99**
50 in to 59 in Wide										
8 Drawers										
50" W x 25 ¼" D x 41" H	Gloss Red	Gray	Ball Bearing	20,092 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-8SG-1S	**48UZ48**
	Gloss Red	Red	Ball Bearing	20,092 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-8RD-1S	**48UZ50**
10 Drawers										
50" W x 25 ¼" D x 41" H	Gloss Blue	Blue	Ball Bearing	23,779 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-10BL	**48UZ80**
	Gloss Red	Gray	Ball Bearing	23,779 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-10SG	**48UZ72**
	Gloss Red	Red	Ball Bearing	23,779 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-10RD	**48UZ74**
11 Drawers										
54" W x 25 ¾" D x 48 7/10" H	Matte Black	Black	Ball Bearing	33,364 cu in	4,000 lb	500 lb	14 ga	Westward	49NR91	**49NR91**
12 Drawers										
50" W x 25 ¼" D x 41" H	Gloss Black	Black	Ball Bearing	23,419 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-12DB	**48UZ68**
	Gloss Red	Red	Ball Bearing	23,419 cu in	3,600 lb	200 lb	14 ga	Proto	J555041-12RD	**48UZ66**
13 Drawers										
55" W x 22 ⅜" D x 38 ½" H	Gloss Black	Black	Ball Bearing	19,153 cu in	4,000 lb	200 lb	18 ga	Proto	JSTV5539RD13BK	**60FG08**
	Gloss Gray	Gray	Ball Bearing	19,153 cu in	4,000 lb	200 lb	18 ga	Proto	JSTV5539RD13DT	**60FG07**
	Gloss Red	Gray	Ball Bearing	19,153 cu in	4,000 lb	200 lb	18 ga	Proto	JSTV5539RD13RG	**60FG06**
	Gloss Red	Red	Ball Bearing	19,153 cu in	4,000 lb	200 lb	18 ga	Proto	JSTV5539RD13RD	**60FG10**
60 in to 69 in Wide										
8 Drawers										
63 ¾" W x 22 ¼" D x 39 ¾" H	Gloss Black	Red	Ball Bearing	21,034 cu in	3,000 lb	200 lb	18 ga	Craftsman	CMST26380RB	**60HT30**
12 Drawers										
66" W x 27" D x 46" H	Gloss Red	Red	Ball Bearing	36,455 cu in	3,600 lb	200 lb	16 ga	Proto	J556646-12RD	**48UZ12**
18 Drawers										
67" W x 25 ¼" D x 41" H	Gloss Black	Black	Ball Bearing	30,144 cu in	3,600 lb	200 lb	14 ga	Proto	J556741-18BKPDP	**54JF95**
	Gloss Blue	Blue	Ball Bearing	30,144 cu in	3,600 lb	200 lb	14 ga	Proto	J556741-18BLPDP	**54JF96**
20 Drawers										
67" W x 25 ¼" D x 41" H	Gloss Blue	Blue	Ball Bearing	30,519 cu in	3,600 lb	200 lb	16 ga	Proto	J556741-20BL	**48UZ03**
	Gloss Red	Gray	Ball Bearing	30,519 cu in	3,600 lb	200 lb	16 ga	Proto	J556741-20SG	**48UY98**
Greater than 70 in Wide										
22 Drawers										
88 ¼" W x 27" D x 46 ⅜" H	Gloss Red	Red	Ball Bearing	48,115 cu in	3,600 lb	200 lb	14 ga	Proto	J558846-22RD	**48UY42**

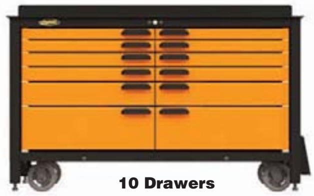
Scan. Order. Done.
Details on page A1.

StrongHold PROTO Swivel WESTWARD

Industrial, Premium-Duty, Workstation-Height Rolling Tool Cabinets

Support the heaviest loads and withstand the most frequent use compared to light- and heavy-duty cabinets.

11 Drawers
49NR90



10 Drawers
26X204

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Locking System	Total Storage Capacity	Total Load Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Brand	Mfr. Model	Item No.
30 in to 39 in Wide											
1 Drawers											
36" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	3-TC-LV-241-1DB	**40V866**
3 Drawers											
36" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	3-TC-241-2/5-1DB	**40V863**
4 Drawers											
36" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	3-TC-241-4/5DB	**40V864**
5 Drawers											
36" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	3-TC-240-4/5-1DB	**40V865**
6 Drawers											
30" W x 21 ⅜" D x 42 ½" H	Gloss Blue	Blue	Ball Bearing and Full Extension	Keyed	15,965 cu in	3,200 lb	400 lb	16 ga	Proto	J563042-6BL	**53GM67**
	Gloss Red	Gray	Ball Bearing and Full Extension	Keyed	15,965 cu in	3,200 lb	400 lb	16 ga	Proto	J563042-6SG	**53GM71**
	Gloss Red	Red	Ball Bearing and Full Extension	Keyed	15,965 cu in	3,200 lb	400 lb	16 ga	Proto	J563042-6RD	**53GM70**
7 Drawers											
32" W x 24 ¼" D x 39 ¼" H	Powder Coated Orange	Orange	Swivel Hinged	Keyed	8,710 cu in	4,000 lb	400 lb	14 ga	Swivel Pro Series	PRO303507	**26X199**
40 in to 49 in Wide											
1 Drawers											
48" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	4-TC-241-1DB	**40V862**
6 Drawers											
45" W x 21 ⅜" D x 42 ½" H	Gloss Black	Black	Ball Bearing and Full Extension	Keyed	24,498 cu in	3,200 lb	400 lb	16 ga	Proto	J564542-6DB-1S	**53GM80**
	Gloss Red	Red	Ball Bearing and Full Extension	Keyed	24,498 cu in	3,200 lb	400 lb	16 ga	Proto	J564542-6RD-1S	**53GM82**
48" W x 24" D x 44" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	4-TC-241-6/5DB	**40V868**
9 Drawers											
49" W x 25" D x 47" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	4.4-TC-241-9/5DB	**40V875**
10 Drawers											
45" W x 21 ⅜" D x 42 ½" H	Gloss Black	Black	Ball Bearing and Full Extension	Keyed	24,457 cu in	3,200 lb	400 lb	16 ga	Proto	J564542-10BK	**53GM72**
	Gloss Blue	Blue	Ball Bearing and Full Extension	Keyed	24,457 cu in	3,200 lb	400 lb	16 ga	Proto	J564542-10BL	**53GM73**
	Gloss Red	Gray	Ball Bearing and Full Extension	Keyed	24,457 cu in	3,200 lb	400 lb	16 ga	Proto	J564542-10SG	**53GM77**
50 in to 59 in Wide											
11 Drawers											
54" W x 25 ¾" D x 48 ⁷⁄₁₀" H	Matte Red	Red	Ball Bearing	Keyed	33,364 cu in	4,000 lb	500 lb	14 ga	Westward	49NR90	**49NR90**
60 in to 69 in Wide											
10 Drawers											
60" W x 24 ¼" D x 35 ½" H	Powder Coated Black	Blue	Swivel Hinged	Keyed	21,358 cu in	400 lb	400 lb	16 ga	Swivel Pro Series	MAX603510	**468F61**
62" W x 24 ¼" D x 39 ¼" H	Powder Coated Black	Orange	Swivel Hinged	Keyed	17,824 cu in	6,000 lb	400 lb	16 ga	Swivel Pro Series	PRO603512	**26X204**
12 Drawers											
61" W x 24" D x 42" H	Gloss Gray	Gray	Ball Bearing and Full Extension	Padlockable	—	2,000 lb	400 lb	12 ga	Strong Hold	5-TC-3D-242-12/5DB	**40V873**

PROTO WESTWARD KENNEDY Mobile-SHOP

Side Cabinets & Tool Lockers

- For cabinet compatibility, see Grainger.com

Attach to rolling tool cabinets or use independently to store and organize tools.

Side Cabinet
32H866

Side Cabinet
48VA39

Tool Locker (Shown with Tool Cabinet Sold Separately)
35XP95

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Locking System	Total Load Capacity	Total Storage Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Brand	Mfr. Model	Item No.
Side Cabinet, Light Duty											
5 Drawers											
18" W x 20" D x 34" H	Powder Coated Red	Gray	Fully Extending Ball Bearing	Keyed	500 lb	6,809 cu in	100 lb	18 ga	Proto	JUC1834-5SG-SC	**35XP94**
7 Drawers											
15 ½" W x 18" D x 33 ⅞" H	Powder Coated Black	Black	Auto Return and Fully Extended Ball Bearing	Padlockable	500 lb	4,414 cu in	100 lb	21 ga	Westward	32H865	**32H865**
	Powder Coated Blue	Blue	Auto Return and Fully Extended Ball Bearing	Padlockable	500 lb	4,414 cu in	100 lb	22 ga	Westward	32H866	**32H866**
	Powder Coated Red	Red	Auto Return and Fully Extended Ball Bearing	Padlockable	500 lb	4,414 cu in	100 lb	20 ga	Westward	32H864	**32H864**
Side Cabinet, Heavy Duty											
5 Drawers											
13 ⅝" W x 20" D x 29 ⅛" H	Powder Coated Brown	Brown	Assisted Close Ball Bearing	Keyed	700 lb	4,073 cu in	120 lb	18 ga	Kennedy	205XB	**414X95**
13 ⅝" W x 18" D x 29 ⅛" H	Powder Coated Red	Red	Assisted Close Ball Bearing	Keyed	700 lb	3,468 cu in	120 lb	18 ga	Kennedy	185XR	**414X93**
19" W x 25 ¼" D x 34" H	High Gloss Black	Black	Fully Extending Ball Bearing	Keyed	125 lb	7,734 cu in	125 lb	14 ga	Proto	J551934-5BK-SC	**48VA49**
	High Gloss Red	Gray	Fully Extending Ball Bearing	Keyed	125 lb	7,734 cu in	125 lb	14 ga	Proto	J551934-5SG-SC	**48VA44**
	High Gloss Red	Red	Fully Extending Ball Bearing	Keyed	125 lb	7,734 cu in	125 lb	14 ga	Proto	J551934-5RD-SC	**48VA45**
6 Drawers											
19" W x 25 ¼" D x 34" H	High Gloss Black	Black	Fully Extending Ball Bearing	Keyed	125 lb	7,554 cu in	125 lb	14 ga	Proto	J551934-6BK-SC	**48VA43**
	High Gloss Blue	Blue	Fully Extending Ball Bearing	Keyed	125 lb	7,554 cu in	125 lb	14 ga	Proto	J551934-6BL-SC	**48VA42**
	High Gloss Red	Gray	Fully Extending Ball Bearing	Keyed	125 lb	7,554 cu in	125 lb	14 ga	Proto	J551934-6SG-SC	**48VA38**
	High Gloss Red	Red	Fully Extending Ball Bearing	Keyed	125 lb	7,554 cu in	125 lb	14 ga	Proto	J551934-6RD-SC	**48VA39**
Tool Locker, Heavy Duty											
0 Drawers											
28" W x 31 ⅞" D x 48 ½" H	Laminate Tan	Tan	—	Padlockable	240 lb	37,550 cu in	—	18 ga	Mobile Shop	MS-ECL	**4HFZ7**
34" W x 45" D x 54 ½" H	Matte Tan	Tan	—	Padlockable	170 lb	77,388 cu in	—	18 ga	Mobile Shop	MS-PMCL	**39CE51**
Tool Locker, Industrial Premium Duty											
0 Drawers											
18" W x 20" D x 34" H	High Gloss Red	Gray	—	Keyed	500 lb	6,809 cu in	—	18 ga	Proto	JUC1834-SG-LK	**35XP95**

KENNEDY CRAFTSMAN® WESTWARD®

Light-Duty Top Chests

- Keyed locking system
- For cabinet compatibility, see Grainger.com

Stack on another tool cabinet or flat surface to provide space for organizing and storing tools and supplies. Support lighter loads than heavy- and premium-duty chests. Hinged lids allow full access to top compartment above multiple drawers.

4 Drawers
60HT38

11 Drawers
32H839

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Total Load Capacity	Total Storage Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Brand	Mfr. Model	Item No.
Top Chest Less than 30 in Wide										
3 Drawers										
20 ⅛" W x 8 ½" D x 13 ⅝" H	Matte Brown	Brown	Friction	90 lb	1,800 cu in	60 lb	20 ga	Kennedy	620B	**54DM39**
26 ⅛" W x 12 ⅛" D x 14 ¾" H	Matte Brown	Brown	Friction	120 lb	3,314 cu in	90 lb	20 ga	Kennedy	263B	**54DN26**
4 Drawers										
26" W x 16" D x 24 ½" H	Gloss Black	Black	Fully Extended Ball Bearing	1,500 lb	6,582 cu in	100 lb	18 ga	Craftsman	CMST22641BK	**60HT36**
26" W x 12 ⅛" D x 13 ⅞" H	Powder Coated Red	Red	Fully Extended Ball Bearing	285 lb	1,225 cu in	55 lb	21 ga	Westward	48RJ69	**48RJ69**
5 Drawers										
26" W x 16" D x 19 ¾" H	Gloss Red	Black	Fully Extended Ball Bearing	650 lb	5,480 cu in	100 lb	18 ga	Craftsman	CMST22652RB	**60HT24**
6 Drawers										
26 ⅛" W x 12 ⅛" D x 14 ¾" H	Matte Brown	Brown	Friction	120 lb	3,178 cu in	90 lb	20 ga	Kennedy	266B	**54DN25**
26" W x 16 ½" D x 18 ½" H	Powder Coated Black	Black	Fully Extended Ball Bearing	480 lb	5,910 cu in	100 lb	20 ga	Westward	32H834	**32H834**
	Powder Coated Blue	Blue	Fully Extended Ball Bearing	480 lb	5,910 cu in	100 lb	20 ga	Westward	32H835	**32H835**
	Powder Coated Red	Red	Fully Extended Ball Bearing	480 lb	5,910 cu in	100 lb	20 ga	Westward	32H833	**32H833**
7 Drawers										
20 ⅛" W x 8 ½" D x 13 ⅝" H	Matte Brown	Brown	Friction	90 lb	1,694 cu in	60 lb	20 ga	Kennedy	520B	**54DM47**
26" W x 12 ⅛" D x 16" H	Powder Coated Red	Red	Fully Extended Ball Bearing	355 lb	2,066 cu in	55 lb	21 ga	Westward	48RJ71	**48RJ71**
9 Drawers										
26" W x 12 ⅝" D x 16 ⅜" H	Powder Coated Black	Black	Fully Extended Ball Bearing	720 lb	3,260 cu in	100 lb	20 ga	Westward	32H879	**32H879**
	Powder Coated Blue	Blue	Fully Extended Ball Bearing	720 lb	3,260 cu in	100 lb	20 ga	Westward	32H880	**32H880**
	Powder Coated Red	Red	Fully Extended Ball Bearing	720 lb	3,260 cu in	100 lb	20 ga	Westward	32H878	**32H878**
11 Drawers										
26 ¾" W x 8 ½" D x 18" H	Matte Brown	Brown	Friction	120 lb	3,000 cu in	60 lb	20 ga	Kennedy	52611B	**54DM46**
42 ⅜" W x 18 ⅛" D x 26 ⅞" H	None Silver	Silver	Fully Extended Ball Bearing	1,056 lb	11,100 cu in	99 lb	19 ga	Westward	53RH50	**53RH50**
Top Chest 30 in to 39 in Wide										
4 Drawers										
37" W x 16" D x 24 ½" H	Gloss Red	Black	Fully Extended Ball Bearing	1,500 lb	10,182 cu in	100 lb	18 ga	Craftsman	CMST98222RB	**60HT38**
Top Chest 40 in to 49 in Wide										
6 Drawers										
40 ½" W x 16" D x 24 ½" H	Gloss Black	Black	Fully Extended Ball Bearing	1,500 lb	10,992 cu in	100 lb	18 ga	Craftsman	CMST24060BK	**60HT40**
	Gloss Red	Black	Fully Extended Ball Bearing	1,500 lb	10,992 cu in	100 lb	18 ga	Craftsman	CMST24060RB	**60HT22**
11 Drawers										
41 ½" W x 18 ⅝" D x 26 ⅞" H	Powder Coated Black	Black	Fully Extended Ball Bearing	1,000 lb	9,594 cu in	100 lb	20 ga	Westward	32H840	**32H840**
	Powder Coated Blue	Blue	Fully Extended Ball Bearing	1,000 lb	9,594 cu in	100 lb	20 ga	Westward	32H841	**32H841**
	Powder Coated Red	Red	Fully Extended Ball Bearing	1,000 lb	9,594 cu in	100 lb	20 ga	Westward	32H839	**32H839**
Top Chest 50 in to 59 in Wide										
8 Drawers										
51 ½" W x 16" D x 24 ½" H	Gloss Black	Black	Fully Extended Ball Bearing	1,500 lb	14,014 cu in	100 lb	18 ga	Craftsman	CMST25180BK	**60HT42**
	Gloss Red	Black	Fully Extended Ball Bearing	1,500 lb	14,014 cu in	100 lb	18 ga	Craftsman	CMST25180RB	**60HT23**

KENNEDY PROTO® WESTWARD®

Heavy-Duty Top Chests

- Keyed locking system
- Full-extension ball bearing slides on all drawers
- For cabinet compatibility, see Grainger.com

Support heavier loads than light-duty chests. Hinged lids allow full access to top compartment. Stack on another tool cabinet or flat surface to provide space for organizing and storing tools and supplies.

5 Drawers
54DN13

6 Drawers
48VA20

Overall Dim.	Finish/Color	Drawer Color	Total Load Capacity	Total Storage Capacity	Largest Maximum Drawer Load Capacity	Body Gauge	Series	Brand	Mfr. Model	Item No.
Less than 30 in Wide										
5 Drawers										
26 ¼ in W x 17 ⅝ in D x 20 ¾ in H	None Silver	Silver	528 lb	6,000 cu in	99 lb	19 ga	Heavy Duty	Westward	53RH47	**53RH47**
27 in W x 18 in D x 16 ½ in H	Matte Brown	Brown	120 lb	3,842 cu in	120 lb	20 ga	KSeries	Kennedy	285XB	**54DN13**
29 in W x 20 in D x 16 ½ in H	Matte Brown	Brown	120 lb	4,872 cu in	120 lb	20 ga	KSeries	Kennedy	2805XB	**54DN16**
7 Drawers										
27 in W x 22 ⅜ in D x 28 in H	Gloss Black	Black	1,125 lb	7,409 cu in	125 lb	18 ga	Velocity	Proto	JSTV2728CS07BK	**60FF72**
	Gloss Blue	Blue	1,125 lb	7,409 cu in	125 lb	18 ga	Velocity	Proto	JSTV2728CS07BL	**60FF73**
	Gloss Red	Gray	1,125 lb	7,409 cu in	125 lb	18 ga	Velocity	Proto	JSTV2728CS07RG	**60FF70**
	Gloss Tan	Gray	1,125 lb	7,409 cu in	125 lb	18 ga	Velocity	Proto	JSTV2728CS07DT	**60FF71**
30 in to 39 in Wide										
4 Drawers										
34 in W x 25 ¼ in D x 27 in H	Gloss Black	Black	250 lb	12,414 cu in	200 lb	16 ga	550S	Proto	J553427-4BK	**48VA37**
	Gloss Red	Gray	250 lb	12,414 cu in	200 lb	16 ga	550S	Proto	J553427-4SG	**48VA32**
	Gloss Red	Red	250 lb	12,414 cu in	200 lb	16 ga	550S	Proto	J553427-4RD	**48VA33**
6 Drawers										
34 in W x 25 ¼ in D x 27 in H	Gloss Black	Black	250 lb	11,662 cu in	200 lb	16 ga	550S	Proto	J553427-6BK	**48VA25**
	Gloss Blue	Blue	250 lb	11,662 cu in	200 lb	16 ga	550S	Proto	J553427-6BL	**48VA24**
	Gloss Red	Gray	250 lb	11,662 cu in	200 lb	16 ga	550S	Proto	J553427-6SG	**48VA20**
40 in to 49 in Wide										
12 Drawers										
42 in W x 22 ⅜ in D x 28 in H	Gloss Black	Black	1,750 lb	12,212 cu in	125 lb	18 ga	Velocity	Proto	JSTV4228CD12BK	**60FF92**
	Gloss Blue	Blue	1,750 lb	12,212 cu in	125 lb	18 ga	Velocity	Proto	JSTV4228CD12BL	**60FF93**
	Gloss Red	Gray	1,750 lb	12,212 cu in	125 lb	18 ga	Velocity	Proto	JSTV4228CD12RG	**60FF90**
	Gloss Tan	Gray	1,750 lb	12,212 cu in	125 lb	18 ga	Velocity	Proto	JSTV4228CD12DT	**60FF91**
50 in to 59 in Wide										
8 Drawers										
50 in W x 25 ¼ in D x 27 in H	Gloss Black	Black	250 lb	18,753 cu in	200 lb	16 ga	550S	Proto	J555027-8DB	**48UZ86**
	Gloss Red	Red	250 lb	18,753 cu in	200 lb	16 ga	550S	Proto	J555027-8RD	**48UZ84**
55 in W x 22 ⅜ in D x 28 in H	Gloss Black	Black	1,250 lb	18,552 cu in	125 lb	18 ga	Velocity	Proto	JSTV5528CD08BK	**60FG03**
	Gloss Blue	Blue	1,250 lb	18,552 cu in	125 lb	18 ga	Velocity	Proto	JSTV5528CD08BL	**60FG04**
10 Drawers										
50 in W x 25 ¼ in D x 27 in H	Gloss Black	Black	250 lb	18,197 cu in	200 lb	16 ga	550S	Proto	J555027-10BK	**48VA01**
	Gloss Red	Gray	250 lb	18,197 cu in	200 lb	16 ga	550S	Proto	J555027-10SG	**48UZ95**
12 Drawers										
50 in W x 25 ¼ in D x 27 in H	Gloss Blue	Blue	250 lb	17,641 cu in	200 lb	16 ga	550S	Proto	J555027-12BL	**48UZ93**
	Gloss Red	Red	250 lb	17,641 cu in	200 lb	16 ga	550S	Proto	J555027-12RD	**48UZ90**
60 in to 69 in Wide										
10 Drawers										
66 in W x 27 in D x 27 in H	Gloss Black	Black	400 lb	26,684 cu in	200 lb	16 ga	550S	Proto	J556627-10DB	**48UZ32**
	Gloss Blue	Blue	400 lb	26,684 cu in	200 lb	16 ga	550S	Proto	J556627-10BL	**48UZ33**
	Gloss Red	Gray	400 lb	26,684 cu in	200 lb	16 ga	550S	Proto	J556627-10SG	**48UZ29**
Greater than 70 in Wide										
15 Drawers										
88 ¼ in W x 27 in D x 27 ¼ in H	Gloss Black	Black	250 lb	32,756 cu in	200 lb	16 ga	550S	Proto	J558827-15DB-TC	**48UY76**
	Gloss Blue	Blue	250 lb	32,756 cu in	200 lb	16 ga	550S	Proto	J558827-15BL-TC	**48UY77**
	Gloss Red	Gray	250 lb	32,756 cu in	200 lb	16 ga	550S	Proto	J558827-15SG-TC	**48UY73**

8 Drawers
49NR84

Industrial Premium-Duty Top Chests

WESTWARD

- 14 ga.
- Keyed locking system
- Full-extension ball bearing slides on all drawers
- 500lb. largest max. drawer load capacity
- For cabinet compatibility, see Grainger.com

Support the heaviest loads compared to light- and heavy-duty chests. Hinged lids allow full access to top compartment. Stack on another tool cabinet or flat surface to provide space for organizing and storing tools and supplies.

Overall Dim.	Finish/Color	Drawer Color	Total Load Capacity	Total Storage Capacity	Item No.
40 in to 49 in Wide					
8 Drawers					
42" W x 25 ¾" D x 24 ¾" H	Powder Coated Black	Black	2,500 lb	25,950 cu in	**49NR85**
	Powder Coated Red	Red	2,500 lb	25,950 cu in	**49NR84**
50 in to 59 in Wide					
8 Drawers					
54" W x 25 ¾" D x 24 ¾" H	Powder Coated Black	Black	3,000 lb	33,364 cu in	**49NR87**
	Powder Coated Red	Red	3,000 lb	33,364 cu in	**49NR86**

19 Drawers
361LN2

25 Drawers
361LN0

WESTWARD

Light-Duty Top Chest & Rolling Cabinet Combinations

- Keyed locking system
- Ball bearing drawer slides

Support lighter loads and withstand less frequent use than heavy- and premium-duty combinations.

Overall Dim.	Finish/Color	Largest Maximum Drawer Load Capacity	Includes	Body Gauge	Item No.
Less than 30 in Wide					
9 Drawers					
26 ¾ in W x 18 in D x 51 ¾ in H	Powder Coated Black	80 lb	Rolling Cabinet 32H895; Top Chest 32H873; Keys; Drawer Liners	20 ga	**7CX98**
11 Drawers					
26 ¾ in W x 18 in D x 51 ¾ in H	Powder Coated Black	80 lb	Rolling Cabinet 32H895; Top Chest 32H834; Keys; Drawer Liners	20 ga	**7CY04**
	Powder Coated Blue	80 lb	Rolling Cabinet 32H896; Top Chest 32H835; Keys; Drawer Liners	20 ga	**7CY26**
13 Drawers					
26 ¾ in W x 18 in D x 58 in H	Powder Coated Black	80 lb	Rolling Cabinet 32H889; Top Chest 32H834; Keys; Drawer Liners	20 ga	**7CY05**
	Powder Coated Blue	80 lb	Rolling Cabinet 32H890; Top Chest 32H835; Keys; Drawer Liners	20 ga	**7CY27**
	Powder Coated Red	80 lb	Rolling Cabinet 32H888; Top Chest 32H833; Keys; Drawer Liners	20 ga	**7CX83**
29 ⅞ in W x 18 ⅛ in D x 65 ⅝ in H	Unfinished Gray	88 lb	Top Chest, Intermediate Chest, Lock, Keys, (5) 2.5mm EVA Drawer Liners	19 ga	**361LM9**
14 Drawers					
26 ¾ in W x 18 in D x 49 ⅝ in H	Powder Coated Black	80 lb	Rolling Cabinet 32H895; Top Chest 32H879; Keys; Drawer Liners	20 ga	**7CY07**
	Powder Coated Blue	80 lb	Rolling Cabinet 32H896; Top Chest 32H880; Keys; Drawer Liners	20 ga	**7CY29**
26 ¾ in W x 18 in D x 60 25/64 in H		100 lb	Top Chest, Intermediate Chest, (2) Keys, Drawer Liners	20 ga	**361LN6**
16 Drawers					
26 ¾ in W x 18 in D x 55 ⅞ in H	Powder Coated Black	80 lb	Rolling Cabinet 32H889; Top Chest 32H879; Keys; Drawer Liners	20 ga	**7CY08**
	Powder Coated Blue	80 lb	Rolling Cabinet 32H890; Top Chest 32H880; Keys; Drawer Liners	20 ga	**7CY30**
26 ¾ in W x 18 in D x 68 ⅝ in H		100 lb	Top Chest, Intermediate Chest, (2) Keys, Drawer Liners	20 ga	**361LN3**
17 Drawers					
26 ¾ in W x 18 in D x 60 25/64 in H	Powder Coated Black	100 lb	Top Chest, Intermediate Chest, (2) Keys, Drawer Liners	20 ga	**361LN5**
19 Drawers					
26 ¾ in W x 18 in D x 66 ½ in H	Powder Coated Black	100 lb	Top Chest, Intermediate Chest, (2) Keys, Drawer Liners	18 ga	**361LN2**
	Powder Coated Red	100 lb	Top Chest, Intermediate Chest, (2) Keys, Drawer Liners	20 ga	**361LN1**
40 in to 49 in Wide					
25 Drawers					
45 ¼ in W x 18 ⅞ in D x 81 ⅜ in H	Unfinished Gray	99 lb	Top Chest, Intermediate Chest, Lock, Keys, (11) 2.5mm EVA Drawer Liners	19 ga	**361LN0**

361LN8

WESTWARD

Heavy-Duty Top Chest & Cabinet Combinations

- Keyed locking system
- Ball bearing slides on all drawers
- 200 lb. maximum drawer capacity
- Includes: top chest, intermediate chest, side cabinet, (2) keys, drawer liners

Attach chests and side cabinet to the rolling cabinet or use independently on flat surfaces.

Overall Dim.	Individual Component Dimensions	Finish/Color	Body Gauge	Item No.
40 in to 49 in Wide				
27 Drawers				
57 ½ in W x 19 in D x 82 ¾ in H	Intermediate Chest 42 in W x 19 in D x 16 in H, Rolling Tool Cabinet 42 in W x 19 in D x 39 ⅞ in H, Side Cabinet 15 ½ in W x 18 in D x 33 ⅞ in H, Top Chest 41 ½ in W x 18 ⅝ in D x 26 ⅞ in H	Powder Coated Black	20 ga	**361LN8**
		Powder Coated Blue		**361LN9**
		Powder Coated Red		**361LN7**
31 Drawers				
57 ½ in W x 19 in D x 82 ¾ in H	Intermediate Chest 42 in W x 19 in D x 16 in H, Rolling Tool Cabinet 42 in W x 19 in D x 39 ⅞ in H, Side Cabinet 15 ½ in W x 18 in D x 33 ⅞ in H, Top Chest 41 ½ in W x 18 ⅝ in D x 26 ⅞ in H	Powder Coated Black	18 ga	**361LP1**
		Powder Coated Blue	20 ga	**361LP2**
		Powder Coated Red		**361LP0**
34 Drawers				
57 ½ in W x 19 in D x 82 ¾ in H	Intermediate Chest 42 in W x 19 in D x 16 in H, Rolling Tool Cabinet 42 in W x 19 in D x 39 ⅞ in H, Side Cabinet 15 ½ in W x 18 in D x 33 ⅞ in H, Top Chest 41 ½ in W x 18 ⅝ in D x 26 ⅞ in H	Powder Coated Black	20 ga	**361LP4**
		Powder Coated Blue		**361LP5**
		Powder Coated Red		**361LP3**

19 Drawers
361LP9

- 250 lb. largest max. drawer load capacity

PROTO® WESTWARD

Industrial Premium-Duty Top Chests & Rolling Cabinet Combinations

Support heavier loads and withstand more frequent use than light-duty combinations.

Overall Dim.	Finish/Color	Drawer Color	Drawer Slide Function	Includes	Brand	Item No.
30 in to 39 in Wide						
12 Drawers						
34 in W x 25 ¼ in D x 68 in H	Matte Red	Gray	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH2**
13 Drawer						
34 in W x 25 ¼ in D x 68 in H	Matte Red	Gray	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH1**
14 Drawers						
34 in W x 25 ¼ in D x 68 in H	Matte Red	Gray	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH0**
40 in to 49 in Wide						
18 Drawers						
42 in W x 25 ¾ in D x 73 ½ in H	Powder Coated Black	Black	Ball Bearing	Side Handle, Key Set	Westward	**361LP7**
	Powder Coated Red	Red	Ball Bearing	Side Handle, Key Set		**361LP6**
50 in to 59 in Wide						
19 Drawers						
54 in W x 25 ¾ in D x 73 ½ in H	Powder Coated Black	Black	Ball Bearing	Side Handle, Key Set	Westward	**361LP9**
	Powder Coated Red	Red	Ball Bearing	Side Handle, Key Set		**361LP8**
20 Drawers						
50 in W x 25 ¼ in D x 68 in H	Gloss Red	Red	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH5**
22 Drawers						
50 in W x 25 ¼ in D x 68 in H	Gloss Red	Red	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH4**
24 Drawers						
50 in W x 25 ¼ in D x 68 in H	Gloss Red	Red	Ball Bearing, Full Extension	Drawer Liners, (2) Keys	Proto	**360WH3**

1Drawer
2CZY3

3 Drawers
56GE38

4 Drawers
499H49

5 Drawers
53PC96

8 Drawers
53PC99

WESTWARD® FlexCart™ Mobile-SHOP

Light-Duty Tool Utility Carts

Support lighter loads than heavy- and premium-duty carts. Mobile storage units hold tools and supplies and transport them within a facility.

Overall Dim.	Lid Style	Locking System	Work Surface Material	Total Load Capacity	Total Storage Capacity	Largest Maximum Drawer Load Capacity	Finish/Color	Drawer Color	Brand	Item No.
1 Drawer										
30" W x 16" D x 35" H	Hinge	Keyed	Steel	150 lb	8,899 cu in	88 lb	Gloss Red	Red	Westward	**2CZY3**
3 Drawers										
30" W x 20" D x 31" H	Hinge	Keyed	Steel	250 lb	11,000 cu in	88 lb	Gloss Black	Black	Westward	**2CZY2**
37 ½" W x 14 ½" D x 45" H	No Lid	Padlockable	Rubber, Steel	200 lb	12.3 cu ft	100 lb	Powder Coated Black	Silver	Flexcart	**56GE38**
4 Drawers										
30" W x 20" D x 38" H	Hinge	Keyed	Steel	250 lb	12,150 cu in	88 lb	Gloss Red	Red	Westward	**2CZY5**
37 ½" W x 14 ½" D x 45" H	No Lid	Padlockable	Rubber, Steel	200 lb	12.3 cu ft	100 lb	Powder Coated Black	Silver	Flexcart	**499H49**
5 Drawers										
16" W x 36" D x 39 ½" H	No Lid	Padlockable	Laminate	900 lb	3,900 cu in	80 lb	Powder Coated Black	Black	Mobile Shop	**53PC96**
7 Drawers										
37 ½" W x 14 ½" D x 45" H	No Lid	Padlockable	Stainless Steel	200 lb	12.3 cu ft	75 lb	Powder Coated Black	Silver	Flexcart	**35XR83**
	No Lid	Padlockable	Rubber, Steel	200 lb	12.3 cu ft	100 lb			Flexcart	**499H46**
8 Drawers										
21" W x 40" D x 44" H	No Lid	Padlockable	Laminate	1,500 lb	6,240 cu in	80 lb	Powder Coated Black	Black	Mobile Shop	**53PC99**

WESTWARD®

Heavy-Duty Tool Utility Carts

Support heavier loads and withstand more frequent use than light-duty carts.
Mobile storage units transport tools and supplies within a facility.

No. of Drawers	Overall Dim.	Lid Style	Locking System	Drawer Slide Function	Largest Maximum Drawer Load Capacity	Finish/Color	Drawer Color	Item No.
3	35 ⅝" W x 20 ⅞" D x 45 ⅜" H	No Lid	Keyed	Ball Bearing	200 lb	Powder Coated Red	Red	**55NJ77**
7	36 ¼" W x 22 ⅛" D x 39 ¼" H	Hinge						**55NJ78**

3 Drawers
55NJ77

7 Drawers
55NJ78

PROTO®

Industrial Premium-Duty Utility Cart with Drawers

Supports the heaviest loads and withstands the most frequent use compared to light- and heavy-duty carts. Mobile storage unit transports tools and supplies within a facility. Drawers organize and store items.

Overall Dim.	Lid Style	Locking System	Work Surface Material	Total Load Capacity	Total Storage Capacity	Largest Maximum Drawer Load Capacity	Finish/Color	Drawer Color	Item No.
3 Drawers									
37" W x 20" D x 43" H	Hinge	Keyed	Steel	1,100 lb	20,559 cu in	1,100 lb	Powder Coated Gray/Red	Red	**35XP93**

Mobile-SHOP

Light-Duty Modular Tool Utility Carts

- Black color
- Largest max. drawer load capacity: 80 lb.

Use removable components off-cart for fixed storage. Steel frame provides support for light-duty use.

Overall Dim.	Locking System	Work Surface Material	Total Load Capacity	Total Storage Capacity	Includes	Item No.
0 Drawers						
22" W x 26" D x 39" H	None	—	117 lb	2,340 cu in	(3) Empty Parts Organizer, Mobile Shop's MS-CTB Empty Tool Bag	**39CE50**
3 Drawers						
22" W x 26" D x 39" H	Padlockable	Laminate	325 lb	2,340 cu in	(3) Empty Parts Organizer, Mobile Shop's MS-CTB Empty Tool Bag	**53PC92**
22" W x 26" D x 41" H					(1) 3 Drawer Clip-On System, (3) Empty Parts Organizer, Bench Vise, Empty Tool Bag, Tool Trolley	**53PC91**
4 Drawers						
22" W x 39 ¾" D x 39" H	Padlockable	Laminate	195 lb	420 cu in	(3) Empty Parts Organizer, Bench Vise, Empty Tool Modules, Mobile Shop's MS-CTB Empty Tool Bag, Plunger, Shop Vacuum	**39CE49**

3 Drawers
53PC91

4 Drawers
39CE49

PACKOUT Modular Tool Storage System

Milwaukee

Totes, Carts & Tool Boxes—Interchangeable components from the Milwaukee PACKOUT system stack and lock in place to create mobile storage units. A rolling tool box, hand truck, or dolly forms the base and eases transport between locations. Add tool boxes, organizers, and totes to customize the system.

Socket Sets—Include sockets in a range of sizes, extensions, a ratcheting drive tool, and an organizer box for storage. The box base snaps onto the cross brace of a PACKOUT hand truck or the top of other PACKOUT components.

Accessories—Weather-resistant jobsite radio provides music or news for work crew. Includes ports to charge mobile devices and Milwaukee M18 batteries. Impact-resistant personal cooler stores and chills food and beverages.

System Components—Mounting plates and wall mount racks secure to flat surfaces to provide a dedicated space to store modular system components. Foam inserts cushion tools in tool boxes, and dividers can be configured to customize the drawer layout. Organizer trays hold small objects to prevent them from rolling around and getting lost inside a tool box or bag. Workstation tops provide a smooth, impact-resistant surface for completing assembly work and paperwork.

Item	Overall Dim.	Locking System	Color	Material	Total Load Capacity	Includes	Item No.
Totes, Carts & Tools Boxes							
Tool Box Dolly	24 ⅜" W x 18 ⅞" D x 13 ¼" H	—	Black	Plastic	250 lb	(4) Wheels	**55EK71**
Hand Truck	20" W x 12" D x 48" H	—	Black/Red	—	400 lb	—	**60RJ99**
Rolling Tool Box	22 ⅛" W x 22 ⅛" D x 25 ⅝" H	Padlockable	Red	Plastic	250 lb	—	**488A58**
Tool Case	9 ¾" W x 15 ¼" D x 2 ½" H	Padlockable	Red	Plastic	—	(1) Packout Low Profile Organizer	**499M36**
	9 ⅞" W x 15 ¼" D x 4 ⅝" H	Padlockable	Red	Plastic	—	(4) Small Bins, Large Bin	**488A60**
	14 ⅞" W x 15 ¼" D x 5 ⅞" H	Padlockable	Black/Red	Plastic	75 lb	(1) Packout Tool Case W/ Customizable Insert	**499M40**
	16 ⅜" W x 16 ¼" D x 2 ½" H	Padlockable	Red	Plastic	—	(1) Packout Low Profile Organizer	**499M35**
	19 ¾" W x 15 ½" D x 4 ⅝" H	Padlockable	Red	Plastic	—	(8) Small Bins, (2) Large Bins	**488A59**
	22 ⅛" W x 16 ¼" D x 6 ½" H	Padlockable	Black/Red	Plastic	75 lb	—	**488A56**
	22 ⅛" W x 16 ¼" D x 11 ⅛" H	Padlockable	Black/Red	Plastic	100 lb	—	**488A57**
Tool Box	9 ⅞" W x 16 ¼" D x 13" H	Padlockable	Black/Red	Plastic	75 lb	Removable Tray, (5) Quick Adjust Dividers	**56LA43**
	18 ¾" W x 15 ⅜" D x 9 ⅞" H	None	Red	Plastic	50 lb	—	**55VT08**
	22" W x 16 ¼" D x 17" H	Keyed	Black, Red	Impact Resistant Polymers, Metal	100 lb	(1) Packout XL Tool Box (48-22-8429)	**61LA15**
Tool Box 3 Drawers	22 ¼" W x 14 ¼" D x 14 ¼" H	Locking Security Bar	Black, Red	Polymer	50 lb	—	**60RK02**
Tool Box 2 Drawers	22 ¼" W x 16 ¼" D x 14 ¼" H	Locking Security Bar	Black, Red	Polymer	50 lb	—	**60RK01**
Tool Tote	15" W x 11" D x 17" H	—	Red	1680D Ballistic Nylon	—	Tape Measure, Utility Knife, Multi-Bit Screwdriver, High Visibility Vest, Safety Glasses	**349FA9**
	15" W x 11" D x 17" H	—	Red	Ballistic Nylon	—	—	**416P46**
	20 ⅞" W x 10 ¼" D x 16 ½" H	—	Red	Ballistic Nylon	—	—	**416P47**
	10 ⅞" W x 10 ⅞" D x 12 ⅝" H	—	Red	Ballistic Nylon	—	—	**416P45**
Tool Bag	15" W x 15" D x 12 ¼" H	—	Red	Ballistic Nylon	—	—	**485A33**
	16 ⅞" W x 16 ⅞" D x 17 ¾" H	—	Black	Ballistic Nylon	—	—	**499M37**
	20 ⅞" W x 12 ⅜" D x 4" H	—	Red	Ballistic Nylon	—	—	**485A34**
Tool Backpack	15" W x 10 ¼" D x 19" H	—	Red; Black	Ballistic Nylon	—	—	**499M38**
Rolling Tool Chest	38" W x 12" D x 15 ¾" H	(2) Metal Reinforced Locking Points	Black, Red	Polymer (Tool Chest)	250 lb	(1) Interior Organizer Tray	**793NG8**
Tool Cabinet	19 ½" W x 14 ½" D x 14 ¾" H	Metal Renforced Locking Point	Black, Red	Impact Resistant Polymers	50 lb	(1) PACKOUT Cabinet	**792VK9**

Item	Description	Color	Material	Total Load Capacity	Number of Posts/Slots	For Socket Size/Type	Includes	Item No.
System Components								
Mounting Plate	18 ⅜" W x 1 ¼" D	Black	Polymer	—	—	—	(1) Mounting Plate	**55EK72**
Tool Storage Foam Inserts	13 ¼" W x 1 ¾" H	Black	Foam	—	—	—	(1) Foam Insert	**499M41**
Drawer Divider	16 5⁄16" W x 12 ½" D x 5" H	—	Plastic	—	—	—	(2) Long Dividers, (6) Small Dividers	**61LA12**
	16 5⁄16" W x 12 ½" D x 3" H	—	Plastic	—	—	—	(2) Long Dividers, (6) Small Dividers	**61LA13**
Ratchet and Socket Tray	7 17/25" W x 12" D x 1 13/20" H	Red	Plastic	—	28	Deep Sockets Size: ¼ in to ⅞, Drive Ratchet: ⅜ in, Sockets: ¼ in to 1 in	—	**60RJ96**
	7 17/25" W x 12" D x 1 13/20" H	Black	Plastic	—	32	Deep Sockets: 6mm to 19mm, Drive Ratchet: ⅜ in, Sockets: 6mm to 19 mm	—	**60RJ97**
	9 39/50" W x 12" D x 1 13/20" H	Black/Red	Plastic	—	106	Drive Ratchet: ¼ in, Ratchet: ⅜ in	—	**60RJ98**
Racking System	21 ½" W x 17 ⅝" D x 20" H	Black	Metal, Polymer	50 lb	—	—	(2) Shelves, (2) Vertical E-Track Rails	**60RK03**
	21" W x 16 ⅝" D x 3 ⅞" H	Black	Metal, Polymer	50 lb	—	—	(1) Shelf	**60RK04**
Workstation Top	23 ⅞" W x 2" H	Black	Polymer, Wood	—	—	—	—	**60RK05**
Curved Hook	7 9/100" L, 10 27/100" H, 3 21/25" D	Black, Red	Impact Resistant Polymers, Metal	25 lb	—	—	(1) PACKOUT™ 6" Curved Hook	**792VJ5**
Wide Hook	7 49/50" L, 9 8/25" H, 6 17/100" D	Black, Red	Impact Resistant Polymers, Metal	25 lb	—	—	(1) PACKOUT™ Wide Hook	**792VJ6**
S Hook	7 19/100" L, 2 19/25" H, 3 21/25" D	Black, Red	Impact Resistant Polymers, Metal	25 lb	—	—	(1) PACKOUT™ 4" S Hook	**792VJ7**
Straight Hook	3 61/100" L, 4 21/25" H, 3 43/50" D	Black, Red	Impact Resistant Polymers, Metal	15 lb	—	—	(1) PACKOUT™ 4" Straight Hook	**792VJ8**
Curved Hook	4 41/100" L, 3 8/25" H, 3 43/50" D	Black, Red	Impact Resistant Polymers, Metal	15 lb	—	—	(1) PACKOUT™ 3" Curved Hook	**792VJ9**
Organizer Cup	7 ¼" L, 4" W, 5 ¼" D	Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT Organizer Cup	**792VK0**
Roll Holder	13" L, 3 ⅝" W, 6 ½" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Roll Holder	**792VK1**
Battery Rack	13" L, 3 ⅝" W, 2 ⅝" D	Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ M12 Rack	**792VK2**
	12 ¾" L, 4" W, 4 ½" D	Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT M18 Battery Rack	**792VK3**
Tool Rack	3 ½" L, 9 ⅜" W, 4 ¾" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Tool Rack	**792VK4**
Screwdriver Rack	3 ½" L, 9 ⅜" W, 4 ¾" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Screwdriver Rack	**792VK5**
Tool Station	10" L, 14" W, 9 ⅜" D	Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Tool Station	**792VK6**
Compact Shelf	3 ⅝" L, 9 ½" W, 9 ¾" D	Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT Compact Shelf	**792VK7**
Tool Rack	14" L, 9 ⅜" W, 7" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT Long Handle Tool Rack	**792VK8**
Wall Plate	20" L, 10 ¼" W, 1" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Compact Mounting Plate	**792VL0**
	20" L, 30 ¾" W, 1 ¼" D	Black, Red	Impact Resistant Polymers	—	—	—	(1) PACKOUT™ Large Mounting Plate	**792VL1**
Deep Organizer	Interior Dimensions 18" L x 12" W x 5 ½" H	Red	Polymer (Organizer)	50 lb	—	—	—	**793NG9**
Straight Hook	7 99/100" L, 10 9/50" H, 3 21/25" D	Black, Red	Impact Resistant Polymers, Metal	25 lb	—	—	(1) PACKOUT™ 9" Straight Hook	**792VJ4**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Impact Rated	Item No.
Ratchet & Socket Set						
⅜ in	28	¼ in to 1 in	14	10	Yes	**60RK06**
	32	6 mm to 19 mm	14	14	Yes	**60RK07**
¼ in, ⅜ in	106	—	—	—	Yes	**60RK08**
Mechanic Hand Tool Set						
½ in	47	½ 1 ⅛, 10 24	(26) 6 Point	(18) 6-Point	No	**793NG3**

Overall Dim.	Item No.
Accessories	
Jobsite Charger Radio, 18.0 V Li-Ion (not included)	**55VT09**
Cooler, 16 qt, 10 in W x 16 in L x 13 in H, Ice Retention Up to 3 days	**56LA44**

DEWALT

TSTAK Modular Tool Storage System

Modular, interchangeable components from the DeWALT TSTAK system stack and interlock to form a single mobile unit. A wheeled tool box or trolley forms the base and moves along flat surfaces to transport tools between locations. Add tool boxes, organizers, and totes to customize the unit.

Trolley
48VE68

Tool Box with Drawers
28AD30

Tool Box
28AD34

Rolling
Tool Box
420H31

Item	Overall Dim.	No. of Drawers	Locking System	Color	Material	Total Load Capacity	Includes	Item No.
Tool Box Trolley	41" W x 17 ¼" D x 22" H	—	None	Black	Polypropylene	200 lb	Trolley With Telescoping Handle, Security Strap	48VE68
	17" W x 18 ⅞" D x 7" H	—	—	Black/Yellow	Polypropylene	220 lb	Removable Cups for Small Parts and Accessories and Removable Dividers for Drills and Bits Organization	28AD35
Rolling Tool Box Set	13" W x 4 ½" D x 5" H	—	Padlock Hasp	Black, Yellow	Plastic	—	(1) Tool Box, (1) Parts Organizer, (1) Organizer with Pull Out Trays, (1) Tool Trolley	42NM53
Tool Box	12 ½" W x 12 ½" D x 10 ¾" H	—	None	Black	Plastic	66 lb	—	420H30
	13" W x 4 ½" D x 5" H	—	Padlockable	Black/Yellow	Plastic	44 lb	(7) Removable Cups	28AD33
	13 ¼" W x 13 ⅜" D x 12 ⅝" H	—	Padlockable	Black	Plastic	66 lb	—	420H29
	16 ¼" W x 12 ¼" D x 6 ⅜" H	2	Padlockable	Black	Plastic	16.5 lb	—	28AD30
	16 ¾" W x 12 ¼" D x 6 ⅞" H	1	None	Black	Plastic	16.5 lb	(2) Large Removable Storage Cups, (4) Small Removable Storage Cups	28AD29
	17 ¼" W x 6 ⅜" D x 13" H	—	Padlockable	Black	Plastic	66 lb	—	28AD31
	17 ¼" W x 13" D x 11 ⅞" H	—	Padlockable	Black	Plastic	66 lb	Inner Tote Tray, Metal Latches (Anti-Rust)	28AD34
	17 ¼" W x 13" D x 17 ⅞" H	—	Padlockable	Black/Yellow	Plastic	66 lb	Top Organizer	28AD32
	21 ¾" W x 13 ⅛" D x 6 ⅛" H	—	Padlockable	Black	Plastic	66 lb	—	14C633
Rolling Tool Box	17" W x 17 ⅛" D x 39" H	—	Padlockable	Black	Plastic	66 lb	—	420H31
Clipboard	2 ½" W x 11 ¼" D	—	—	Gray, Yellow	Plastic	—	Pouch Inside Clipboard	60HJ75
Tool Storage Foam Inserts	13" W x 4" H	—	—	Black	Foam	—	—	48VE72

Hand Truck
14C639

Tool Box Set
7AY33

Tool Box
14C634

Tool Box
48VE66

DEWALT

Tough System Modular Tool Storage System

Trucks, boxes, and cases—Modular, interchangeable components from DeWALT Tough System stack and interlock to form a single mobile unit. A wheeled tool box or hand truck forms the base and moves along flat surfaces to transport tools between locations. Add tool boxes, totes, and cases to customize the unit.

Accessories—Weather-resistant jobsite radio withstands rugged conditions to provide music or news reports for work crews.

Item	Overall Dim.	Locking System	Color	Material	Total Load Capacity	Includes	Item No.
Trucks, Boxes & Cases							
Hand Truck	20 ⅛" W x 26 ⅞" D x 43 ⅝" H	—	Black	Metal / High Impact Plastic	264 lb	Adjustable Foldable Brackets, Central Locking Mechanism	14C639
Rolling Tool Box Set	26 ¾" W x 14 ⅜" D x 37 ⅝" H	Padlock Hasp	Black	Plastic, Steel	—	—	7AY33
Tool Box	13 ¼" W x 13 ¼" D x 6 ¼" H	Padlockable	Black	Plastic	88 lb	(4) Deep Large Cups, Drills Storage Pockets, Screwdrivers	420H35
	21 ¾" W x 13 ⅛" D x 12 ⅛" H	Padlockable	Black	Plastic	88 lb	—	14C634
	21 ¾" W x 14 ⅜" D x 16 ¼" H	Padlockable	Black	Plastic	111 lb	—	14C635
	21 ⅞" W x 12 ⅞" D x 10 ⅞" H	None	Black	Plastic	44 lb	—	48VE66
Tool Case	21 ¾" W x 13 ⅛" D x 4 ½" H	None	Black/Yellow	Plastic	44 lb	(4) Large and (8) Small Removable Cups	48VE65
Rolling Tool Box	23 ⅞" W x 19 ⅝" D x 16 ⅝" H	Padlockable	Black	Plastic	250 lb	Removable Tray	60HJ72

Description	Item No.
Accessories	
Mobile Radio System Storage Trunk, 12 V, 20 V Li-Ion (not included)	48VE67

Tool Case
48VE65

Jobsite Radio
48VE67

Polyester Tool Cases

KLEIN TOOLS

- Black
- Tradesman Pro series

Hold small hand tools, meters, and electronic devices. Cases unzip along three sides to open for full visibility of contents. Hard shell with polyester fabric covering resists abrasion and dries quickly if it gets wet.

Overall Dim.	Item No.
5½" W x 10¼" D x 2¼" H	35HU84
6½" W x 8¾" D x 2¼" H	35HU86

35HU84

Rolling
2WLK1

Tool Case
No 30JZ71

Plastic Tool Cases

Portable, hard shell cases protect tools from damage. Two connected halves fold out on a central hinge for access to both sides at once. Compartments organize tools, parts, and supplies. Carrying handle eases transport. **Rolling tool cases** have wheels and an extendable handle to transport tools across a worksite.

Overall Dim.	Locking System	Color	No. of Compart.	Brand	Item No.
Rolling Tool Case					
18¾" W x 15" D x 10½" H	Combination	Black	61	Westward	**2WLK1**
Tool Case					
9" W x 17" D x 12" H	None	Black	18	STANLEY	**31XR37**
9" W x 6" D x 2" H	None	Red	1	Proto	**1Q995**
12" W x 8" D x 2" H	None	Red	1	Proto	**1Q996**
13" W x 24" D x 7¼" H	None	Black	1	Wilton	**49XF31**
14¼" W x 7" D x 7" H	Keyed	Black	1	Platt	**30JZ71**
15½" W x 11¾" D x 4⅜" H	Padlockable	Blue	0	Makita	**44YV58**
15½" W x 11¾" D x 6½" H	Padlockable	Blue	0	Makita	**44YV57**
15½" W x 11¾" D x 12½" H	Padlockable	Blue	0	Makita	**44YV61**
16" W x 10" D x 4" H	None	Black	9	IDEAL	**46W435**
16⅜" W x 11" D x 19½" H	Combination	Black	38	Westward	**45KK76**
16¾" W x 8" D x 19¾" H	Combination	Black	38	Westward	**45KK78**
17⅜" W x 10" D x 20¼" H	Combination	Black	38	Westward	**45KK79**
17¾" W x 12⅝" D x 5¾" H	None	Black	52	Xcelite	**6C483**
20" W x 16" D x 3" H	None	Red	1	Proto	**1Q769**
46¾" W x 5" D x 3¾" H	None	Red	1	Proto	**1Q874**

Rolling
Tool Box
14C636

Tool Box
437U15

Tool Box
3W561

Tool Box Set
31XR36

Rolling Tool
Box Set
31XR40

Plastic Tool Boxes

Lightweight, portable boxes have a deep body for tool storage. A hinged lid swings open for access to load and unload tools. They won't dent or rust, and they have no sharp corners that could gouge or scratch surfaces.

Plastic rolling tool boxes—Wheeled for transporting between locations. Extendable handle for pulling heavy loads.

Plastic tool boxes—Top handle for carrying between locations.

Plastic tool box sets—Include multiple boxes to store and organize tools, parts, and supplies.

Plastic rolling tool box sets—Consist of multiple storage containers that fit together for transport as a single unit. Wheeled bottom container provides a stable base for stacked containers.

Overall Dim.	Locking System	Color	No. of Drawers	No. of Compart.	No. of Trays	Total Storage Capacity	Brand	Item No.
Plastic Rolling Tool Boxes								
14⅛" W x 11¾" D x 16¾" H	Padlockable	Black	0	2	1	13,224 cu in	STANLEY	**14C632**
16" W x 25" D x 19" H	None	Black	6	1	2	2,851 cu in	Pelican	**55HF14**
16" W x 25" D x 19" H	None	Black	7	7	1	2,851 cu in	Pelican	**55HF15**
24⅝" W x 16" D x 16⅜" H	None	Black	0	2	1	2 cu ft	DeWalt	**48VE70**
28½" W x 12⅝" D x 12" H	Padlockable	Black	0	2	1	2 cu ft	DeWalt	**48VE69**
29⅞" W x 18⅝" D x 19" H	Padlockable	Black	0	2	1	5,337 cu in	STANLEY	**14C636**
38¼" W x 23" D x 23" H	None	Black	0	1	0	10.1 cu ft	DeWalt	**48VE71**
Plastic Tool Boxes								
11⅝" W x 5" D x 7⅛" H	Padlockable	Orange	0	1	0	400 cu in	Plano Molding	**437U09**
14½" W x 7½" D x 5¼" H	None	Gray	0	1	1	—	Flambeau	**2W785**
15" W x 8" D x 10" H	Padlockable	Black	0	2	0	625 cu in	Plano Molding	**437U15**
15" W x 8" D x 10" H	Padlockable	Orange	0	2	1	1,200 cu in	Plano Molding	**437U10**
15" W x 8" D x 6" H	Padlockable	Orange	0	2	0	739 cu in	Plano Molding	**36N205**
15⅛" W x 7⅞" D x 10¼" H	Padlockable	Black	0	1	1	—	Flambeau	**5AZC8**
16" W x 8¾" D x 10⅛" H	Padlockable	Black	0	3	1	742 cu in	STANLEY	**14C629**
16" W x 8" D x 7" H	Padlockable	Black	0	5	1	485 cu in	STANLEY	**19YU43**
17" W x 10" D x 13" H	Padlockable	Orange	0	2	1	2,300 cu in	Plano Molding	**437U11**
17½" W x 10½" D x 12¼" H	Padlockable	Black	0	1	1	—	Flambeau	**5AZC7**
19" W x 11" D x 10⅛" H	Padlockable	Black	0	3	1	1,409 cu in	STANLEY	**14C631**
19¼" W x 10¼" D x 9¾" H	Padlockable	Black	0	5	1	1,085 cu in	STANLEY	**19YU44**
20¼" W x 8⅞" D x 8⅞" H	None	Gray	0	1	1	—	Flambeau	**2W784**
20¼" W x 11" D x 9" H	Padlockable	Gray	0	1	1	2,012 cu in	Plano Molding	**36N220**
23" W x 10½" D x 10½" H	None	Gray	0	1	1	—	Flambeau	**3W561**
23½" W x 10½" D x 10⅛" H	Padlockable	Black	0	3	1	1,094 cu in	STANLEY	**14C630**
23½" W x 11⅜" D x 10⅞" H	Padlockable	Black	0	5	1	1,894 cu in	STANLEY	**19YU45**
26" W x 10" D x 11" H	Padlockable	Gray	0	3	1	2,826 cu in	Plano Molding	**36N221**

Overall Dim.	Locking System	Color	Number of Boxes	No. of Drawers	No. of Compart.	No. of Trays	Total Load Capacity	Includes	Series	Brand	Item No.
Plastic Tool Box Sets											
7⁹⁄₁₀", 8 7/10", 10 4/5" W x ⅖", 8 3/10", 11" D x 7", 9", 12 1/5" H	None	Black	—	0	0	3	22 lb, 30 lb, 44 lb	(2) Removable Side Bins 9 in x 7½ in x 2 in	MJ-3097+3098+3099	—	**24Y988**
12" W x 12⁵⁄₁₆" D x 11" H	None	Black	—	0	13	0	33 lb	(1) Hand Latch Operation	CLICK 'N' CONNECT™	STANLEY	**31XR36**
Plastic Rolling Tool Box Sets											
18½" W x 11⅝" D x 24⁵⁄₁₆" H	Padlockable	Black	1	2	3	1	35 lb	(1)Bottom Bin, (1)Middle Organizer, (1)Top Tool Box	Stanley	STANLEY	**31XR40**
21⅝" W x 13¾" D x 28⅞" H	None	Black	1	3	4	1	100 lb	(1)Oversized Lower Bin, (1)Part Bins, (1)Portable Tray, (1)Tool Box	FATMAX	STANLEY	**3FRA9**

1NTH9

54DD51

Plastic Step Stool Tool Boxes

Flat, reinforced lid supports weight to double as a step stool. Deep body stores tools. Top handle for carrying the box between locations.

Overall Dim.	Locking System	Color	No. of Compart.	No. of Trays	Total Load Capacity	Brand	Item No.
21⅝" W x 15" D x 13¼" H	None	Yellow	1	1	300 lb	Flambeau	**1NTH9**
20" W x 14" D x 12½" H	Padlockable	Black/Red	2	1	325 lb	Skilcraft	**54DD51**

Rolling
Tool Box
2FDB7

Tool Box
1RG71

Structural Foam Tool Boxes

- Black color

Strong and rigid with a deep body to protect and store tools. Hinged lid swings open for access. Structural foam is lighter than plastic, but less water-resistant.

Rolling tool box—Wheeled for transporting between locations. Extendable handle for pulling heavy loads.

Tool boxes—Handles for carrying between locations.

Overall Dim.	Locking System	No. of Dividers	No. of Compart.	No. of Trays	Total Load Capacity	Total Storage Capacity	Brand	Item No.
Rolling Tool Box								
22¼" W x 37½" D x 23¼" H	Keyed	1	2	1	110 lb	13,340 cu in	STANLEY	**2FDB7**
Tool Box								
12⅛" W x 8¾" D x 11½" H	Padlockable	7	7	2	45 lb	2,075 cu in	STANLEY	**31XR33**
23" W x 12⅛" D x 10½" H	Padlockable	1 inner tray	2	1	66 lb	1,155 cu in	DeWalt	**53JF14**
28" W x 12⅝" D x 11⅝" H	Padlockable	17	17	1	100 lb	21,252 cu in	DeWalt	**53JF15**
37" W x 21" D x 20" H	Keyed	—	1	0	250 lb	12,274 cu in	Contico	**1RG71**

Steel Tool Boxes

Resist impact, bending, or warping under stress or heat.

Steel tool boxes—Deep body stores tools. Top handle for carrying between locations. Hinged top swings open for access to load and unload tools.

Steel tool boxes with drawers—Drawers slide out to organize and store tools and parts. Top handle for carrying between locations.

Steel rolling tool boxes with drawers—Wheeled box has an extendable handle to pull heavy tools and parts from one location to another. Deep body for storage, and multiple drawers slide out to provide space for organizing tools and parts.

Steel socket storage boxes—Subdivided storage space separates and organizes sockets. A hinged top swings open for access to load and unload sockets.

Overall Dim.	Locking System	Color	Number of Boxes	No. of Drawers	No. of Compart.	No. of Trays	Total Load Capacity	Total Storage Capacity	Body Gauge	Brand	Item No.
Steel Tool Boxes											
12" W x 6½" D x 5½" H	Padlockable	Black	1	0	1	1	15 kg	424 cu in	0.8 mm	Westward	**44ZJ83**
16" W x 7" D x 7½" H	Padlockable	Black	1	0	1	1	15 kg	825 cu in	0.8 mm	Westward	**44ZJ82**
17" W x 8" D x 8¼" H	Padlockable	Red	1	0	1	0	15 kg	900 cu in	0.8 mm	Westward	**10J171**
18" W x 14" D x 10" H	Padlockable	Black	1	0	5	4	22 lb	2,520 cu in	24 ga	Proto	**4R138**
19" W x 7" D x 7" H	Padlockable	Red	1	0	1	1	10 lb	931 cu in	24 ga	Proto	**40JD17**
20" W x 8" D x 7⅞" H	Padlockable	Black	1	0	1	1	15 kg	1,200 cu in	0.8 mm	Westward	**44ZJ90**
20" W x 8" D x 9" H	Padlockable	Red	1	0	1	1	15 kg	1,200 cu in	0.8 mm	Westward	**36Y008**
20" W x 8½" D x 9½" H	Padlockable	Red	1	0	2	1	40 lb	2,133 cu in	14 ga	Proto	**40JC95**
24" W x 8" D x 9" H	Padlockable	Red	1	0	1	1	15 kg	1,580 cu in	0.8 mm	Westward	**10J162**
26" W x 8½" D x 9½" H	Padlockable	Red	1	0	2	1	75 lb	2,133 cu in	—	Proto	**40JD14**
30" W x 8" D x 9" H	Padlockable	Red	1	0	1	1	15 kg	1,980 cu in	0.8 mm	Westward	**10J164**
32" W x 8½" D x 9½" H	Padlockable	Brown	1	0	2	1	25 lb	2,584 cu in	14 ga	Proto	**4R158**
Steel Tool Boxes with Drawers											
20½" W x 8" D x 13¾" H	Padlockable	Black	1	2	1	0	15 kg	1,440 cu in	0.8 mm	Westward	**44ZJ87**
20½" W x 8⅝" D x 13¾" H	Padlockable	Red	1	2	1	0	15 kg	1,440 cu in	0.8 mm	Westward	**10J165**
Steel Rolling Tool Boxes with Drawers											
21⅛" W x 13¼" D x 36¼" H	Keyed	Gray	2	3	5	2	49 lb	1,058 cu in	—	Beta	**420T86**
21⅛" W x 13¼" D x 36¼" H	Keyed	Orange	2	3	5	2	47 lb	1,056 cu in	—	Beta	**420T84**
21⅛" W x 13¼" D x 36¼" H	Keyed	Red	2	3	5	2	48 lb	1,057 cu in	—	Beta	**420T85**
Steel Socket Storage Boxes											
10¼" W x 5⅛" D x 1¾" H	None	Red	1	0	1	0	5 lb	74 cu in	20 ga	Westward	**35XR65**
19" W x 7¾" D x 1⅝" H	None	Red	1	0	1	0	10 lb	874 cu in	—	Proto	**40JD23**

Tool Box 44ZJ90

Tool Box with Drawers 10J165

Rolling Tool Box with Drawers 420T84

Socket Storage Box 40JD23

Bucket Bags

Hoist up tools and supplies to elevated work areas. Cylindrical body and roomy interior stores tools, and flat bottom provides a stable base for standing the bag upright. Light, sturdy materials support tools, parts, and supplies while adding minimal weight to the load.

Drawstring-Top Round 52NZ02

Open-Top Narrow Round 36L220

Open Top 2DFP2

Open-Top Oval 34E637

No. of Pockets	Overall Height	Bottom Diameter	Reinforced Bottom	Closure Type	Includes Hang Strap	Body Color	No. of Inside Pockets	No. of Outside Pockets	Body Color	Features	Brand	Item No.
Canvas Drawstring-Top Round Bucket Bags												
Attachment Type: None												
0	15 in	12 in	Yes	Open Top	No	Off-White	0	0	Off-White	Cord to Shut Bag Closed	Westward	**32PJ52**
8	11 in	11 in	Yes	Drawstring	No	Red	6	2	Red	Reinforced Water Resistant Base, Stackable, Stand Up, Stay Open Design	Milwaukee	**53TX76**
10	6 in	11 in	No	Drawstring	No	Olive	10	0	Olive	Olive canvas for durability	Klein Tools	**2DGH7**
19	6 ½ in	10 in	Yes	Drawstring	No	Brown	6	13	Brown	Reinforced Ripstop Pockets and Bottom, Ripcord Closure, Stacks 3-4 Deep in Most 5 gal Buckets	Bucket Boss	**52NZ02**
Attachment Type: Single Handle With Snap Hook												
0	17 in	12 in	Yes	Drawstring	Yes	White	0	0	White	Double-Locking Carabiner, Swivel Snap	Klein Tools	**60XM98**
0	22 in	12 in	Yes	Drawstring	Yes	White	0	0	White	Double-Locking Carabiner, Swivel Snap	Klein Tools	**60XM99**
Canvas Open-Top Narrow Round Bucket Bags												
Attachment Type: None												
0	48 in	7 in	Yes	Open Top	No	Off-White	0	0	Off-White	Polypropylene Rope Handle	Klein Tools	**2DFP5**
1	15 ½ in	2 ½ in	Yes	Open Top	No	Off-White	1	0	Off-White	Heat-Resistant	Klein Tools	**36L220**
Canvas Open-Top Oval Bucket Bags												
Attachment Type: Single Handle With Snap Hook												
15	10 in	14 in	Yes	Open Top	Yes	Off-White	15	0	Off-White	Tripod Suspension	Klein Tools	**36K967**
41	10 in	14 in	Yes	Open Top	Yes	Off-White	26	15	Off-White	Swivel Snap Hook	Klein Tools	**2DGU2**
Canvas Open-Top Round Bucket Bags												
Attachment Type: None												
0	15 in	12 in	Yes	Open Top	No	Off-White	0	0	Off-White	High-Density Polyethylene Top Ring	Klein Tools	**2DFP2**
0	20 in	16 in	Yes	Buckle	No	Gray	0	0	Gray	Carabiner Hoist	Ergodyne	**436D22**
0	20 in	16 in	Yes	Buckle	No	Gray	0	0	Gray	Web Handle Hoist	Ergodyne	**436D20**
0	22 in	12 in	Yes	Zipper	No	Off-White	0	0	Off-White	Heavy Plastic Bottom with Feet, Rope with Leather Handle	Westward	**53JW39**
1	14 in	9 in	Yes	Open Top	No	Off-White	1	0	Off-White	Durable Straight-Wall and High-Density Polyethylene Top Ring	Klein Tools	**2DFN8**
2	14 in	9 in	Yes	Open Top	No	Off-White	2	0	Off-White	(2) 7 in (17.8 cm) Square Inside Pockets	Klein Tools	**2DFN9**
Attachment Type: Single Handle With Snap Hook												
0	14 in	9 in	Yes	Open Top	Yes	Off-White	0	0	Off-White	Swivel Snap Hook	Klein Tools	**2DFP1**
0	15 in	12 in	Yes	Open Top	Yes	Off-White	0	0	Off-White	Heavy Plastic Bottom with Feet, Web Handle with Clip	Westward	**53JW40**
1	15 in	12 in	Yes	Open Top	Yes	Off-White	1	0	Off-White	Drain Holes, Swivel Snap Hook	Klein Tools	**34E641**
4	12 in	9 in	Yes	Open Top	Yes	Off-White	0	4	Off-White	(4) Exterior Pockets, Swivel Snap Hook	Klein Tools	**2DGU4**
15	12 in	9 in	Yes	Open Top	Yes	Off-White	15	0	Off-White	(15) Interior Pockets, Swivel Snap Hook	Klein Tools	**2DGU5**
Canvas Zippered-Top Round Bucket Bags												
Attachment Type: Single Handle With Snap Hook												
1	17 in	14 in	Yes	Zipper	Yes	Off-White	1	0	Off-White	Swivel Snap Hook, Zipper Closed Top	Klein Tools	**34E639**
1	22 in	14 in	Yes	Zipper	Yes	Off-White	1	0	Off-White	Heavy Duty D-Ring, Zipper Closed Top	Klein Tools	**34E640**
Plastic Open-Top Oval Bucket Bags												
Attachment Type: None												
14	10 in	—	Yes	Open Top	No	Orange	14	0	Orange	All-Purpose Tool Bucket, Drain Holes on Bottom, Kickstand	Klein Tools	**34E634**
15	10 in	—	Yes	Open Top	No	Orange	15	0	Orange	Resist Wear and Tear, Drain Holes on Bottom	Klein Tools	**34E637**
Polyester Open-Top Round Bucket Bags												
0	15 in	12 ½ in	Yes	Buckle	No	Black	0	0	Black	Swiveling Hoist	Ergodyne	**436D24**
Vinyl Zippered-Top Round Bucket Bags												
Attachment Type: Single Handle With Snap Hook												
0	17 in	12 in	Yes	Open Top	Yes	Orange	0	0	Orange	Swivel Snap Hook, Zipper Closed Top, Work-At-Height Approved	Klein Tools	**616J60**

Rolling Tool Bags

Wheeled bags have an extendable handle to pull heavy tools and parts from one location to another. Fabric shell covers a metal frame, which holds the bag open for easy loading and unloading. Large center compartment holds bulky items, while pockets organize small items. Padding protects tools during transport.

No. of Outside Pockets	No. of Inside Pockets	Overall Dim.	Brand	Item No.
Ballistic Polyester				
10	14	20½" W x 12½" D x 17½" H	Klein Tools	**23NN65**
Nylon				
3	47	18⅛" W x 6¼" D x 13¼" H	Platt	**30JZ91**
Polyester				
6	15	22" W x 10" D x 17½" H	Westward	**32PJ39**

Polyester 23NN65

Nylon 30JZ91

Scan. Order. Done.
Details on page A1.

Canvas
36L272

Set
52NZ07

Flat Zippered Tool Bags

Feature a single pocket for holding pencils, nuts, bolts, and other small tools and parts. They zip open or closed with a single pull and lay flat for storage when not in use.

Overall Width	Overall Depth	Overall Height	Color	Brand	Item No.
Ballistic Nylon					
12½"	½"	7"	Black	Klein Tools	**36L258**
Canvas					
10"	3"	8"	White	Bucket Boss	**52NZ06**
10"	3½"	8"	Blue	Klein Tools	**36L274**
10"	3½"	8"	Off-White	Klein Tools	**36L271**
10"	3½"	8"	Red	Klein Tools	**36L279**
10"	3½"	8"	Yellow	Klein Tools	**36L272**
12"	¼"	7⅜"	White	Westward	**32PJ41**
20"	9"	11"	Tan	Westward	**53JW32**
Leather					
11"	½"	6½"	Tan	Westward	**13T120**
12½"	¾"	7"	Brown	Klein Tools	**2DFT2**
20"	20"	8"	Brown	Klein Tools	**36L263**
Nylon					
12½"	½"	7"	Camouflage	Klein Tools	**2DGT8**
Polyester					
4¾"	2¼"	9"	Black	Klein Tools	**49AW86**
12"	¼"	7⅜"	Black	Westward	**32PJ42**

Number of Bags	Overall Width	Overall Depth	Overall Height	Color	Brand	Item No.
Sets						
Ballistic Nylon						
2	12½"	⅞ in	7"	Camouflage	Klein Tools	**49DF45**
	12½"	1 ½ in	7"	Black	Klein Tools	**53YE66**
Canvas						
3	10"	3 ½ in	8"	Blue/Red	Klein Tools	**36L229**
	12"	1 in	7"	Black/Red/White	Westward	**32PJ43**
	12½"	¾ in	8"	Red	Milwaukee	**53TX75**
	18"	3 ½ in	8"	Blue/Red	Klein Tools	**197GR9**
4	12½"	¾ in	7"	Blue/Olive	Klein Tools	**1YBP8**
	12½"	¾ in	7"	Black/Brown/Gray/Red	Klein Tools	**34E630**
Polyester						
3	6", 7", 9"	—	5", 6", 7"	Black/Khaki	CLC	**60UJ60**
	8¾"	¼ in	6¾"	Black; Brown; Gray	Bucket Boss	**52NZ07**
	9"	1 in	6"	Black	Westward	**32PJ44**
4	7½"	3 ½ in	4½"	Blue/Green/Red/Yellow	Arsenal By Ergodyne	**44A874**
	10"	3 ½ in	4½"	Blue/Green/Red/Yellow	Arsenal By Ergodyne	**44A873**

Ballistic Nylon
416P44

Polyester
35HU81

Nylon
5ZPJ2

Tool Backpacks

Multiple pockets store tools. Padded shoulder straps cushion the load and distribute weight evenly across the shoulders while wearing the pack to transport tools hands-free.

No. of Outside Pockets	No. of Inside Pockets	Overall Dim.	Brand	Item No.
Ballistic Nylon				
Black				
3	32	14½" W x 7⅜" D x 17½" H	Klein Tools	**259G18**
4	18	11¾" W x 7⅞" D x 19⅝" H	Milwaukee	**419J52**
4	21	14" W x 14" D x 18½" H	Klein Tools	**49AW90**
4	35	14⅜" W x 14⅜" D x 20" H	Klein Tools	**53YE64**
7	28	15⅜" W x 9" D x 24¼" H	Milwaukee	**53TX73**
12	36	13½" W x 11" D x 19½" H	Klein Tools	**484T59**
Camouflage				
4	35	14½" W x 14½" D x 20" H	Klein Tools	**49AW93**
Red				
2	46	18" W x 9½" D x 20⅜" H	Milwaukee	**416P44**
Ballistic Polyester				
Black				
4	35	14½" W x 7¼" D x 20" H	Klein Tools	**35HU81**
Black/Gray/Orange				
3	18	8½" W x 13½" D x 17¼" H	Klein Tools	**60XM97**
3	18	8½" W x 13½" D x 17¼" H	Klein Tools	**60XM96**
Red/Black				
2	46	15" W x 11" D x 20" H	Milwaukee	**326UU3**
4	18	14" W x 9" D x 18" H	Milwaukee	**326UU4**
Nylon				
Black				
8	36	13¼" W x 13¼" D x 16" H	CLC	**5ZPJ2**
Polyester				
Black				
0	27	15" W x 9½" D x 18½" H	Greenlee	**499N27**
2	31	13" W x 13" D x 17" H	DeWalt	**402M75**
3	19	17" W x 7" D x 19" H	Westward	**32PJ49**
3	20	14" W x 6" D x 16" H	DeWalt	**402M74**
3	20	14½" W x 6" D x 18¾" H	CLC	**402M76**
3	27	10" W x 10" D x 20½" H	Greenlee	**499N26**
4	15	19½" W x 7" D x 18" H	Westward	**32PJ48**
5	31	15" W x 10½" D x 18¼" H	CLC	**402M77**
6	69	13" W x 9" D x 17½" H	CLC	**402M69**
9	48	13" W x 7½" D x 16" H	DeWalt	**402M72**
11	6	13" W x 8" D x 16" H	CLC	**402M70**
Orange				
3	4	14" W x 14" D x 18" H	Salisbury	**4FPG9**

Tool Totes

Open-mouth pockets keep tools visible for easy access. Flat bottom provides a stable base to hold the tote upright. Constructed of light but sturdy materials to support tools, parts, and supplies without adding weight to the load. Totes have a built-in carrying handle.

Ballistic Nylon
35HU77

Canvas
2DFT5

Leather
5LF05

No. of Outside Pockets	No. of Inside Pockets	Description	Color	Brand	Item No.
Ballistic Nylon					
4	10	8" W x 5" D x 11" H	Black	Klein Tools	**35HU80**
11	9	8¾" W x 8¾" D x 17" H		Klein Tools	**35HU76**
22	20	10¼" W x 10" D x 12¼" H		Klein Tools	**35HU77**
Canvas					
0	0	17" W x 9" D x 12" H	Tan	Klein Tools	**36L257**
	0	19" W x 9" D x 15" H		Klein Tools	**2DFT5**
	1	20" W x 20" D x 12" H		CLC	**60UJ59**
Leather					
0	0	15" W x 15" D x 7" H	Brown	Klein Tools	**36L231**
12	5	8½" W x 8½" D x 15" H	Tan	CLC	**5LF05**
Polyester					
0	11	13" W x 13" D x 11" H	Black	Greenlee	**499N32**
1	19	16" W x 16" D x 10" H		Greenlee	**499N31**
3	29	11" W x 11" D x 18" H		Greenlee	**499N33**
6	21	11" W x 11" D x 17" H		Greenlee	**499N30**
7	0	15½" W x 7½" D x 10" H		Klein Tools	**36L273**
	5	15½" W x 7½" D x 10" H		Klein Tools	**1YBR5**
8	3	19" W x 8" D x 10" H		Westward	**32PJ34**
9	8	16" W x 9" D x 9" H		CLC	**60UJ58**
	12	14" W x 11" D x 11" H		CLC	**1LWK3**
10	3	13" W x 12" D x 15" H		Westward	**53JW34**
	7	15½" W x 7½" D x 10" H		Klein Tools	**2DGL6**
12	0	8½" W x 8½" D x 16" H		Westward	**32PJ32**
	15	20" W x 11" D x 11" H		CLC	**1LWK4**
13	10	23" W x 8" D x 10" H		Westward	**32PJ35**
14	4	12" W x 8½" D x 12" H		Westward	**32PJ33**
	8	11" W x 9" D x 19" H		CLC	**402M68**
15	8	18" W x 11" D x 18" H		DeWalt	**3XUV2**
16	6	15" W x 8½" D x 11½" H		CLC	**20G108**
	9	8" W x 8" D x 16" H		CLC	**402M67**
	10	14" W x 8½" D x 8" H		DeWalt	**3XUV1**
20	22	13" W x 10" D x 11" H		Flexcart	**56GE44**
25	18	23" W x 12" D x 15" H		CLC	**3HY98**

Wide-Mouth Tool Bags

Top fastens closed to keep contents secure and opens fully for easy access when loading and unloading tools, parts, and supplies. Large center compartment holds bulky items, and smaller inside and outside pockets organize smaller items. Constructed of light but sturdy materials to support tools, parts, and supplies without adding weight to the load.

Ballistic Nylon
259G14

Canvas
9DY31

Nylon
38LY48

Polyester
32PJ37

No. of Pockets	No. of Outside Pockets	No. of Inside Pockets	Overall Dim.	Color	Brand	Item No.
600D Polyester						
10	6	4	12" W x 12" D x 14" H	Black, Yellow	DeWalt	**699W10**
Ballistic Nylon						
10	2	8	15" W x 8" D x 14½" H	Black	Klein Tools	**2DFU4**
31	17	14	15¼" W x 8" D x 14" H	Black	Klein Tools	**35HU82**
42	7	35	17½" W x 17½" D x 16" H	Black	Klein Tools	**53YE65**
	9	33	17¾" W x 10¼" D x 16¼" H	Black	Klein Tools	**259G14**
53	5	48	17" W x 17" D x 17" H	Black	Milwaukee	**53TX78**
Canvas						
1	0	1	12" W x 6" D x 10" H	Natural	Klein Tools	**2DFN4**
	0	1	14" W x 6" D x 14" H	Brown	Klein Tools	**2DGT2**
	0	1	16" W x 6" D x 14" H	Brown	Klein Tools	**5LL47**
	0	1	18" W x 6" D x 14" H	Brown	Klein Tools	**8EDN3**
	0	1	20" W x 6" D x 15" H	Brown	Klein Tools	**2DFN5**
	0	1	22" W x 22" D x 15" H	Brown	Klein Tools	**36K971**
4	2	2	11" W x 6" D x 7" H	Green	Texsport	**8RHA9**
	2	2		Black	Texsport	**9DY31**
	2	2	19" W x 6" D x 9" H	Green	Texsport	**8CJL4**
	2	2		Black	Texsport	**8VT83**
10	0	10	14" W x 6" D x 14" H	Brown	Klein Tools	**34E623**
13	0	13	16" W x 6" D x 14" H	Brown	Klein Tools	**34E624**
15	1	14	20" W x 6" D x 15" H	Black	Klein Tools	**2DFL6**
17	0	17	24" W x 6" D x 15" H	Brown	Klein Tools	**34E626**
Nylon						
0	0	0	24" W x 10" D x 18" H	Orange	Klein Tools	**2DFU1**
18	12	6	20" W x 20" D x 13½" H	Black/Gray	Kraft Tool	**38LY48**
Polyester						
4	3	1	13" W x 9" D x 8" H	Black	Westward	**53JW42**
7	7	0	24" W x 12" D x 12" H	Black	CLC	**1LWK5**
10	2	8	7½" W x 15½" D x 7" H	Blue	IDEAL	**6LFY8**
11	4	7	22" W x 12½" D x 14" H	Black	Westward	**32PJ40**
14	6	8	12" W x 8½" D x 8" H	Black	CLC	**402M65**
16	6	10	17" W x 8" D x 13" H	Black	Westward	**53JW37**
17	17	0	18" W x 7" D x 9" H	Black	CLC	**5LD75**
18	6	12	12" W x 9" D x 13" H	Black/Blue	IDEAL	**6LFY6**
21	3	18	9½" W x 9½" D x 11⅝" H	Black	CLC	**4ZB39**
	11	10	14" W x 7½" D x 9¼" H	Black	Westward	**32PJ36**
	11	10	16" W x 8¼" D x 11½" H	Black	Westward	**32PJ37**
	13	8	12" W x 8" D x 9" H	Black	CLC	**5LU64**
22	10	12	16" W x 8½" D x 10" H	Black	CLC	**402M66**
	15	7	18" W x 12½" D x 13½" H	Black	Westward	**32PJ38**
23	13	10	15" W x 10" D x 12" H	Black	CLC	**4ZB31**
25	13	12	16" W x 8" D x 11" H	Black	CLC	**5LU63**
	13	12	18" W x 11" D x 12" H	Black	CLC	**5LD83**
29	20	9	12" W x 8¾" D x 9" H	Black	DeWalt	**3XUU5**
30	10	20	7" W x 13" D x 13" H	Black	CLC	**1LWN5**
33	20	13	16" W x 8" D x 12½" H	Black	DeWalt	**402M71**
37	23	14	18" W x 10" D x 11" H	Black	CLC	**5LU65**
40	26	14	17½" W x 17½" D x 10½" H	Black	DeWalt	**3XUU7**
41	13	28	13" W x 7" D x 14½" H	Black	DeWalt	**402M73**
50	7	43	18" W x 7" D x 14" H	Black	CLC	**5LU62**

Tool Apron
38GV42

Tool Belt
52NY96

Tool Belt w/o Pouches
4ZB45

Tool Rig
1LWK6

Suspenders
5MZP3

Tool Vest
31XR39

Tool Belts, Aprons, Suspenders & Vests

Allow workers to wear their tools while on the job. Keep tools within reach so worker's hands are free for other tasks. For use in tight spaces or places where it may be impractical to bring along a tool bag or box.

No. of Pockets	Padded	Material	Waist Size	Brand	Item No.
Tool Aprons					
Carpentry					
16	Yes	Canvas	Up to 52 in	Bucket Boss	**52NY97**
General Purpose					
2	No	Canvas	29 to 50 in	CLC	**38GV42**
3	No	Cotton	29 to 46 in	CLC	**5LF23**
5	No	Canvas	29 to 50 in	CLC	**3XUV3**
12	No	Leather	29 in to 46 in	CLC	**4ZB44**
16	Yes	Cotton	28 in to 52 in	Ergodyne	**9PZN9**
Tool Belts					
Carpentry					
5	No	Polyester	29 in to 46 in	CLC	**4ZB41**
12	No	Polypropylene	32 in to 50 in	Westward	**5MZL2**
13	Yes	600D Polyester	32 in to 54 in	Westward	**5MZL1**
Electrician					
29	Yes	Nylon	30 in to 53 in	Milwaukee	**38UZ40**
General Purpose					
13	No	Canvas	Fits up to 52 in	Bucket Boss	**52NY96**
Tool Belts without Pouches					
General Purpose					
—	—	Polyester	29 in to 46 in	Westward	**13T130**
—	—	Leather	29 in to 46 in	CLC	**5LF25**
—	—	Polyester	29 in to 46 in	CLC	**4ZB45**
Ironworker					
—	—	Leather	38 in to 46 in	Klein Tools	**2DGU6**
—	—	Nylon	Up to 54 in	Klein Tools	**36L233**
Tool Rigs					
Electrician					
28	Yes	Polyester	29 in to 46 in	CLC	**1LWK6** *
General Purpose					
19	Yes	Nylon	Up to 52 in	Bucket Boss	**52NY95** *
24	Yes	Nylon	30 in to 53 in	Milwaukee	**38UZ41** *
Tool Suspenders					
General Purpose					
1	—	Polyester	One Size Fits Most	Westward	**5MZP3**
Tool Vests					
General Purpose					
16	Yes	Polyester	Universal	STANLEY	**31XR39**

***Include Tool Belt & Suspenders**

Polyester Pouch
5MZL9

Leather Holster
2DFR2

Polyester Sheath
52NZ15

Tool Pouches, Holsters & Sheaths

Attach to belts or straps to provide storage space for tools, parts, and supplies. They keep frequently used items within reach and provide on-the-go storage to help prevent tools from being misplaced.

No. of Pockets	Compatible with Product Type	Attachment Type	For Maximum Belt Width	Closure Type	Brand	Item No.
Canvas Tool Pouches						
1	Bolt Bag	Belt Slot	3 in	Open Top	Klein Tools	**2DGU7**
1	Tool Belts	Belt Slot	3 in	Open Top	Klein Tools	**2DFU9**
Leather Tool Pouches						
1	Tool Belts	Belt Slot	2 in	Open Top	CLC	**5LD98**
6	Scissors, Tools	Belt Slot	2 in	Open Top	Klein Tools	**34E628**
10	Knife, Pliers, Screwdrivers	Belt Slot	2 in	Open Top	Klein Tools	**5LL49**

No. of Pockets	Compatible with Product Type	Attachment Type	For Maximum Belt Width	Closure Type	Brand	Item No.
Nylon Tool Pouches						
4	Screwdrivers	Belt Slot	2 in	Open Top	Klein Tools	**34E629**
15	Tape	Belt Slot	2 in	Open Top	Klein Tools	**58UR21**
Polyester Tool Pouches						
1	Tool Belts	Belt Slot	2 in	Open Top	Bucket Boss	**52NZ10**
5	Tool Belts	Belt Clip	2 ¾ in	Open Top	DeWalt	**3XUT8**
6	Tool Belts	Belt Clip	—	Open Top	Westward	**5MZL9**
7	Small Utility Tools	Belt Slot	3 in	Open Top	Milwaukee	**444N81**
7	Tool Belts	Belt Slot	2 ¾ in	Zipper	CLC	**5DYN2**
11	Tool Belts	Belt Slot	2 ¼ in	Zipper	CLC	**5DYN3**
12	Tool Belts	Belt Clip	2 ¾ in	Open Top	CLC	**5LF11**
15	Tool Belts	—	3 in	Open Top	Milwaukee	**53TX79**
20	Tool Belts	Belt Clip	—	Open Top	CLC	**4ZB40**
Leather Tool Holsters						
4	Knife, Pliers	Belt Slot	2 in	Open Top	Klein Tools	**2DFR2**
Polyester Tool Holsters						
4	Tool Belts	Snap Loop	2 in	Snap	CLC	**2VEK1**
Leather Tool Sheaths						
1	Utility Knife	Belt Slot	2 ½ in	Open Top	Klein Tools	**2DFU2**
1	Utility Knife	Belt Slot	2 ¾ in	Open Top	CLC	**4ZB58**
2	Cable-Splicer Knife, Electrician's Scissor	Belt Slot	2 ¼ in	Open Top	Klein Tools	**2DFU3**
Plastic Tool Sheaths						
1	Blade, Lanyard, PHC Safety Cutter	Belt Clip	1 ½ in	Open Top	Pacific Handy Cutter, Inc	**4MUY6**
Polyester Tool Sheaths						
1	Tool Belts	Belt Clip	2 in	Open Top	Bucket Boss	**52NZ15**
2	Tool Belts	Belt Clip	2 in	Open Top	Bucket Boss	**52NZ13**
Synthetic Leather Tool Sheaths						
1	Knife	Belt Slot	6 in	Open Top	Hyde	**38HT08**

2MPK8

Wrench Rolls

Flat organizer with slots to hold wrenches of different sizes. Lies flat to load or lay out tools and rolls up for storage or transport. Sturdy fabric resists wear, punctures, and tears.

No. of Pockets	Overall Length	Overall Height	Closure Type	Color	Brand	Item No.
6	26 in	14 ½ in	Zipper	Brown	Bucket Boss	**52NZ05**
8	14 ½ in	7 ¾ in	Hook-and-Loop	Black	Wiha Tools	**2MPK8**
9	10 in	12 in	Tie Strap	Red	Proto	**19C565**
9	15 in	12 in	Tie Strap	Red	Proto	**19C563**
13	15 in	14 in	Tie Strap	Red	Proto	**19C566**
15	29 ½ in	26 ¼ in	Hook-and-Loop	Black	Westward	**32PJ46**
20	22 in	16 in	Tie Strap	Red	Proto	**19C564**
25	26 in	14 ½ in	Roll	Brown	Bucket Boss	**52NZ04**
34	29 ½ in	14 in	Buckle	Black	Westward	**32PJ47**

5WXR4

Socket Rails

- Red

Metal bar with clips or pegs holds sockets of a specific drive size for organization and quick identification.

Overall Width	For Socket Size/Type	Number of Posts/Slots	Item No.
14 ¾ in	¼ in Sockets	13	**5WXR4**
18 ¾ in	⅜ in Sockets	14	**5WXR5**
22 ¾ in	½ in Sockets	16	**5NND6**

8VU71

Tool Holding Magnetic Bars

Organize steel, iron, and other ferrous tools. Bars mount to a wall or in a work truck to keep tools accessible.

Overall Dim.	Color	Mounting Type	Brand	Item No.
¾ in W x 13 in D x 1 ⅝ in H	Black	Mounting Hole	—	**9LDP5**
¾ in W x 13 in D x 1 ⅝ in H	Red	Mounting Hole	—	**8ATT9**
1 in W x 24 in D x 1 in H	Red	Mounting Hole	—	**8VU71**
1 in W x 24 in D x 1 ⅝ in H	Black	Mounting Hole	—	**2VAF5**
1 ⅛ in W x 18 in D x 2 in H	Silver	Mounting Hole	Mag-Mate	**31LV15**
1 ⅛ in W x 13 in D x 49/64 in H	Black	Mounting Hole	—	**3DYE5**
2 ¼ in W x 10 ¾ in D x ⅛ in H	Red	Magnet	Westward	**5NNE2**
2 ¼ in W x 11 ¼ in D x 1 ⅜ in H	Red	Magnet	Westward	**5NND8**
6 in W x 12 in D x 3/16 in H	Silver	Magnet	Westward	**5NNE1**
12 in W x 12 in D x ¼ in H	Silver	Magnet	Westward	**5NNE0**

2MV16

Tool Storage Foam Inserts

Fit into drawers of tool cabinets to cushion tools and protect them and the drawer from damage. The foam has tool-shaped cutouts or can be customized for a snug fit.

Customizable	Overall Width	Overall Length	No. of Compart.	Color	Brand	Item No.
Yes	12 ½ in	15 ¾ in	0	Black	Bosch	**46U422**
Yes	15 ½ in	11 ⅝ in	0	Gray	Makita	**44YV56**
No	16 in	11 in	30	Black/Red	Proto	**54JG54**
No	16 in	23 in	14	Black/Red	Proto	**54JG42**
No	16 in	23 in	18	Black/Red	Proto	**54JG44**
Yes	39 in	26 ¼ in	0	Black/Red	Proto	**2MV16**
Yes	39 in	26 ¼ in	0	Blue/Yellow	Proto	**2MV17**

Crossover
4NY54

Innerside
4NY48

Topside
4TKF7

Underbody
55AG18

Heavy-Duty Truck Boxes

- Bolt-on mounting
- Keyed locking system

Color	Lid Style	Overall Width	Overall Depth	Overall Height	Storage Cap.	Gauge	Body Material	Latch Mechanism	Brand	Item No.
Crossover Truck Box										
Single Lid										
Black	Single	70 ¼ in	20 ¼ in	14 9/16 in	9.2 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY58**
Silver	Single	60 ⅛ in	20 ⅞ in	11 ¼ in	6.1 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY52**
	Single	70 ⅛ in	20 ⅞ in	14 ¼ in	9.2 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY50**
	Single	71 ⅛ in	20 ⅞ in	17 ¼ in	11.3 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**5HE87**
	Single	71 ⅛ in	21 in	15 ⅛ in	9.1 cu ft	0.1 in	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**2VUY4**
	Single	71 ⅛ in	21 in	19 ⅞ in	13.0 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY51**
White	Single	61 in	27 ¼ in	11 ¼ in	6.1 cu ft	14	Steel	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY56**
	Single	71 in	20 ⅞ in	14 ¼ in	9.2 cu ft	14	Steel	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY55**
	Single	71 in	20 ¼ in	17 ¼ in	11.3 cu ft	14	Steel	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY57**
Gull Wing Lid										
White	Gull Wing	71 in	20 ⅞ in	14 ¼ in	9.2 cu ft	14	Steel	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY54**
Double Lid										
Silver	Double	70 ⅛ in	20 ⅞ in	14 ¼ in	9.2 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY53**
Innerside Truck Box										
Single Lid										
Silver	Single	58 ½ in	12 ¼ in	11 in	3.2 cu ft	16	Diamond Tread Aluminum	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY48**
White	Single	58 ½ in	12 ¼ in	11 ⅛ in	3.2 cu ft	14	Steel	Drill-Resistant Push Button Locks	Crescent Jobox	**4NY49**
Topside Truck Box										
Double Lid										
Silver	Double	72 in	15 in	17 in	10.6 cu ft	16	Diamond Tread Aluminum	Rotating T-Handle	Crescent Jobox	**4TKF8**
	Double	88 in	15 in	17 in	13.0 cu ft	16	Diamond Tread Aluminum	Rotating T-Handle	Crescent Jobox	**4TKF7**
White	Double	72 in	15 in	17 in	10.6 cu ft	14	Steel	Rotating T-Handle	Crescent Jobox	**4TKG1**
	Double	96 in	15 in	17 in	14.2 cu ft	14	Steel	Rotating T-Handle	Crescent Jobox	**4TKF9**
Truck Box Chest										
Single Lid										
Black	Single	47 in	20 ¼ in	19 ¼ in	10.0 cu ft	16	Aluminum	Push Button	Weather Guard	**13R593**
Silver	Single	47 in	20 ¼ in	19 ¼ in	10.0 cu ft	16	Aluminum	Push Button	Weather Guard	**13R581**
	Single	61 in	27 ⅝ in	19 ⅜ in	17.0 cu ft	16	Diamond Tread Aluminum	Paddle Handle	Crescent Jobox	**4NY47**
Underbody Truck Box										
Single Lid										
Silver	Single	36 ⅝ in	18 in	18 in	6.5 cu ft	12	Diamond Tread Aluminum	Paddle Handle	Weather Guard	**14V928**
Single/Drop Door										
Silver	Single/Drop Door	48 in	18 in	18 in	9 cu ft	0.1 in	Aluminum	T-Handle Compression	Buyers Products	**55AG18**

Truck/Van Storage Drawers

JOBOX

ALUMINUM
- 75-lb. capacity per drawer
- Aluminum top plate supports 200 lb. per sq.-ft. load
- Drawers can be locked with padlocks (not supplied)
- 0.125-ga. treadplate construction

Full-extension ball bearing drawer glides, fully welded treadplate, and mill finish. 12"W stacking units mount directly on either side of van for rear door access and maximum floor space. 50"L horizontal floor mounts. 1FEH6 is for full-size vans and pickups. 1FEH5 and 1FEH4 can be used in most vehicles.

STEEL
- 650-lb. capacity drawer with keyed lock
- Grip-and-Release handle safety system prevents drawer from slamming shut or rolling open when loaded
- Includes mounting brackets and hardware
- White powder paint finish

Reinforced 14-ga. cabinets. 12-ga. steel drawers glide on steel rollers. Antiskid strips. Removable 250-lb. heavy-duty conveyor roller bearings. Steel handles are flush-mounted. Weather stripping around drawer fronts.

Aluminum 6-Drawer 1FEH8

Aluminum 3-Drawer 1FEJ1

Steel 1-Drawer 1FEH1

W	D	H	Color	No. of Drawers	No. of Dividers	Rollers	Mfr. Model	Item No.
Aluminum								
48 in	50 in	6 in	Silver	4	5	0	1404980	**1FEH6**
36 in	50 in	6 in	Silver	3	5	0	1403980	**1FEH5**
36 in	26 in	12 in	Silver	6	5	0	1406980	**1FEH8**
36 in	26 in	6 in	Silver	3	5	0	1405980	**1FEH7**
24 in	50 in	6 in	Silver	2	5	0	1402980	**1FEH4**
12 in	50 in	24 in	Silver	4	5	0	1409980	**1FEJ2**
12 in	50 in	18 in	Silver	3	5	0	1408980	**1FEJ1**
12 in	50 in	12 in	Silver	2	5	0	1407980	**1FEH9**
12 in	50 in	6 in	Silver	1	5	0	1401980	**1FEH3**
Steel								
48 in	48 in	13 in	White	1	24	4	668980	**1FEH2**
48 in	48 in	9 in	White	1	24	4	664980	**1FEG7**
36 in	48 in	13 in	White	1	19	3	667980	**1FEH1**
36 in	48 in	9 in	White	1	19	3	663980	**1FEG6**
24 in	48 in	13 in	White	1	13	2	666980	**1FEG9**
24 in	48 in	9 in	White	1	13	2	662980	**1FEG5**
12 in	48 in	13 in	White	1	7	1	665980	**1FEG8**
12 in	48 in	9 in	White	1	7	0	661980	**1FEG4**

weather guard

Pack Rat® Truck/Van Storage Drawers

- 14-ga. steel
- Total load rating: 750 lb.
- Fully weather stripped powder-coated finish

Low-profile units can be used separately or in combination with one another. Mount inside the rear of the vehicle to provide secure, concealed storage for large or heavy items, while keeping truck bed area relatively free to carry more cargo. Roll-out drawer provides easy access to and organization of contents. Antiskid strips provide traction for workboots. Easy 1-handed latch opening. Limited lifetime warranty.

H1775
13R595

W	D	H	▶CHOOSE: Color	No. of Dividers	Rollers	Mfr. Model	Item No.
20 in	48 in	8 ⅞ in	White	12	1	306-3	**13R561**
29 ⅞ in	48 in	8 ⅞ in	White	18	2	307-3	**13R558**
29 ⅞ in	48 in	12 ⅜ in	White	6	2	334-3	**13R595**
30 in	24 in	8 ⅞ in	White	12	2	312-3	**13R572**
30 in	24 in	12 ½ in	White	12	2	301-3	**13R598**
30 in	48 in	12 ½ in	White	18	2	337-3	**13R597**
39 ¾ in	24 in	13 in	White	12	3	303-3	**13R589**
39 ¾ in	48 in	9 in	White, Black	24	3	308	**H1776**
39 ⅝ in	48 in	12 ⅜ in	White, Black	24	3	338	**H1775**
48 in	10 ¼ in	8 ⅞ in	White	6	1	305-3	**13R569**
48 in	10 ¼ in	12 ⅜ in	White	6	1	335-3	**13R578**
48 in	20 in	12 ⅜ in	White	12	1	336-3	**13R580**

Swivel STORAGE SOLUTIONS

Truck and Van Boxes

- All-steel construction with powder-paint finish
- Vibration-resistant construction

Drawers swing open easily on a single, greaseable hinge to provide full access to drawer contents and close securely every time. Include antiskid drawer mats. 12-ga frame and 14-ga. drawers, except 26X198 has 14-ga. frame. 26X196 and 26X198 are weather-sealed to keep out dirt and dust. 26X198 also features a secure locking system and main door opens to create a usable work table.

26X196

26X198

26X201

Description	Overall Width	Overall Depth	Overall Height	Item No.
Truck Boxes				
Underbody Truck Box, (3) Drawers, Weathertight Lid	36 ⅜ in	18 ¾ in	18 ¼ in	**26X196**
Five Drawer Road Box	30 ⅛ in	14 ½ in	21 ⅝ in	**26X198**
Van Box				
8-Drawer Service Body/Van Tool Box	29 ¼ in	18 in	34 ⅜ in	**26X201**

6C343

PROTO gould STANLEY WESTWARD

SAE, Metric and Specialty Master Sets

- See Grainger.com® for detailed information under the Tech Specs Tab plus additional Master Sets
- For additional tool storage recommendations, see the Optional Accessories Tab

SAE or Metric	No. of Pieces	Drive Size	No. of Sockets/Accs.	No. of Wrenches	No. of Pliers	No. of Screwdrivers	No. of Striking Tools	Brand	Mfr. Model	Item No.
Add-On Master Tool Set										
Storage-None										
Metric	111	¼ in, ⅜ in, ½ in	91	18	0	0	0	Proto	J99570	**6C353**
Metric, SAE	92	¼ in, ⅜ in, ½ in	34	23	4	19	2	Proto	J99905	**5TJ08**
	206	½ in, ¾ in	89	8	2	2	—	Proto	J99945	**5TJ12**
	206	¼ in, ⅜ in, ½ in	88	35	—	—	—	Proto	J99935	**5TJ11**
	217	⅜ in, ½ in	109	46	7	0	29	Proto	J99915	**5TJ09**
SAE	66	⅜ in, ½ in	43	6	10	0	2	Proto	J99485	**5TH99**
	111	⅜ in	2	24	8	19	28	Proto	J99825	**5TJ05**
	111	½ in	65	3	6	0	29	Proto	J99665	**5TJ02**
	162	⅜ in, ½ in, ¾ in	43	51	9	2	4	Proto	J99675	**5TJ03**
	190	¼ in, ⅜ in, ½ in	83	50	4	2	2	Proto	J99835	**5TJ06**
General Purpose										
Storage-Box										
Metric	157	⅜ in, ½ in	73	27	10	12	16	Proto	J99430	**6C358**
	248	¼ in, ⅜ in, ½ in, ¾ in	110	45	14	12	18	Proto	J99730	**6C360**
Storage-Rolling Cabinet										
Metric, SAE	271	½ in, ¼ in, ⅜ in	178	57	5	19	3	Proto	J99912A	**53GM45**
	497	¼ in, ⅜ in, ½ in	287	102	11	19	31	Proto	J99922A	**53GM57**
	497	¼ in, ⅜ in, ½ in	287	103	12	19	32	Proto	J99923K	**53GL73**
	613	¼ in, ⅜ in, ½ in, ¾ in, 1 in	333	151	18	21	33	Proto	JCS-0613MASBX3K	**53GL72**
	613	¼ in, ⅜ in, ½ in, ¾ in, 1 in	308	176	23	21	33	Proto	JCS-0613MASBX1A	**53GM65**
	1,046	¼ in, ⅜ in, ½ in, ¾ in, 1 in	508	178	20	25	42	Proto	JCS-1046MASBX3K	**53GL71**
	1,046	¼ in, ⅜ in, ½ in, ¾ in, 1 in	508	178	20	61	42	Proto	JCS-1046MASBX1A	**53GM35**
	1,258	¼ in, ⅜ in, ½ in, ¾ in	705	184	21	33	50	Proto	JCS-1258MASBX1A	**53GM37**
SAE	453	¼ in, ⅜ in, ½ in, ¾ in	218	101	18	21	35	Proto	J99722A	**53GM55**
Intermediate										
Storage-Box										
Metric, SAE	564	½ in, ¼ in, ¾ in, ⅜ in	309	119	18	21	35	Proto	100G52	**100G52**
Storage-None										
SAE	453	¼ in, ⅜ in, ½ in, ¾ in	218	101	18	21	35	Proto	J99720	**6C365**
Mechanic										
Storage-Box										
Metric, SAE	506	¼ in, ⅜ in, ½ in	273	94	14	13	26	Gould Southern	80013-31V1	**39C416**
Storage-Case										
Metric, SAE	75	¼ in, ⅜ in	69	0	0	0	0	STANLEY	96-010	**38WF56**
Storage-None										
SAE	67	½ in	17	16	3	8	7	Proto	JTS-0067RR	**1UDX8**
Storage-Rolling Cabinet										
SAE	172	½ in, ⅜ in	68	54	9	7	15	Proto	JTS-0172RRBX2B	**784JR6**
Plumber										
Storage-Bag										
Metric, SAE	37	0	0	11	5	4	5	Proto	JTS-0037PLUM	**1UDY5**
Preventative Maintenance										
Storage-Case										
Metric, SAE	70	¼ in, ⅜ in	35	12	0	13	0	Westward	40JD52	**40JD52**
	148	¼ in, ⅜ in, ½ in	63	12	2	4	0	Westward	40JD43	**40JD43**
	170	¼ in, ⅜ in, ½ in	76	12	2	4	0	Westward	40JD53	**40JD53**
SAE	98	⅜ in	33	21	4	12	13	Proto	J99480	**5TH98**
Storage-None										
Metric, SAE	179	¼ in, ⅜ in	145	34	1	0	1	Proto	J99900	**5TJ07**
	497	½ in, ¼ in, ⅜ in	287	102	11	19	31	Proto	J99920	**7D824**
SAE	148	⅜ in	15	36	3	19	1	Proto	J99660	**5TJ01**
	148	½ in, ⅜ in	80	39	9	19	30	Proto	J99670	**7E222**
	165	½ in, ⅜ in	76	27	10	12	15	Proto	J99490	**7D827**
Railroad Mechanic										
Storage-Case										
Metric, SAE	204	¼ in, ⅜ in, ½ in	171	11	0	0	0	Westward	440A57	**440A57**
Storage-None										
SAE	89	⅜ in, ½ in	36	18	4	6	8	Proto	JTS-0089RR	**1UDY1**
	107	⅜ in, ½ in	46	25	5	5	9	Proto	JTS-0107RR	**1UDX9**
	141	¼ in, ⅜ in, ½ in	69	27	6	8	5	Proto	JTS-0141RR	**1UDY2**
	172	⅜ in, ½ in	70	36	8	7	16	Proto	JTS-0172RR	**1UDY3**
Starter										
Storage-Box										
SAE	62	⅜ in	22	11	5	5	10	Proto	J99201A	**53GM02**
	78	½ in	30	17	5	7	10	Proto	J99300	**6C342**
	78	½ in	27	5	1	7	10	Proto	100G48	**100G48**
	164	¼ in, ⅜ in, ½ in, ¾ in	87	19	9	12	17	Proto	J99700	**6C348**
Storage-None										
SAE	62	⅜ in	22	11	5	5	10	Proto	J99200	**6C343**
Storage-Rolling Cabinet										
Metric, SAE	157	½ in, ¾ in, ⅜ in	83	18	10	13	3	Proto	J99702B	**783HU0**
Technician										
Storage-Box										
Metric, SAE	1,258	¼ in, ⅜ in, ½ in, ¾ in	705	184	21	33	50	Proto	JCS-1258MAS	**1UDW5**
Storage-None										
Metric, SAE	558	¼ in, ⅜ in, ½ in, ¾ in	284	122	34	21	31	Proto	JCS-0558MAS	**1UDX4**
	613	¼ in, ⅜ in, ½ in, ¾ in, 1 in	308	176	23	21	33	Proto	JCS-0613MAS	**1UDX2**
	833	¼ in, ⅜ in, ½ in, ¾ in	395	175	18	21	35	Proto	JCS-0833MAS	**1UDX1**
	1,046	¼ in, ⅜ in, ½ in, ¾ in, 1 in	508	178	20	61	42	Proto	JCS-1046MAS	**1UDW9**
SAE	334	¼ in, ⅜ in, ½ in, ¾ in, 1 in	195	53	21	19	29	Proto	JCS-0334MAS	**1UDX3**

Socket Selection Guide

Bolt Extraction remove stuck, rounded, and rusted nuts and bolts. These sockets require a hand drive tool such as a ratchet or breaker bar to turn the socket.

External Torx fit standard Torx fasteners.

Flex or universal sockets, are hinged in the middle and rotate. They accommodate most angles to tighten and loosen fasteners in tight spaces that can't be reached with a regular socket.

Insulated protect against electrical shock from live electrical circuits when tightening or loosening fasteners near electrical components. These sockets require an insulated hand drive tool to turn the socket and rotate the fastener.

Nonsparking won't spark when tightening or loosening fasteners in locations where flammable vapors or combustible liquids are present. They require the use of nonsparking hand drive tools to turn the socket and rotate the fastener.

Pass-Through sockets and ratchet heads are hollow and allow threaded rod to pass through the tool for access to fasteners.

Power for use with power wrenches that deliver more speed and torque than a hand wrench when rotating fasteners. Not impact rated. Magnetic.

SAE Pipe Plug male pipe plug sockets feature a nub that fits into the square indentation on the head of the fastener. Female pipe plug sockets have an indentation to fit the square nub on the head of the fastener.

Tether-Ready allow the attachment of a tether where the tether is attached to the user or a fixed object to prevent the socket from falling and causing injuries or damage when working at height.

Torx Plus allow Torx Plus fasteners to be tightened to a higher torque compared to standard Torx fasteners.

DRIVE SIZE

SOCKET SHAPES

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
SAE Socket Sets							
Chrome Finish							
¼ in	5	¼ in to ½ in	None	None	Rail	Proto	**1Q718**
	9	7⁄32 in to 9⁄16 in	None	None	Rail	Proto	**1Q719**
	10	5⁄32 in to ½ in	(10) 6-Point	None	Rail	Westward	**53PN25**
		5⁄32 in to ½ in	(10) 12-Point	None	Rail	Westward	**53PN27**
		5⁄32 in to ½ in	None	(10) 6-Point	Rail	Westward	**53PN26**
		5⁄32 in to ½ in	None	(10) 12-Point	Rail	Westward	**53PN28**
		3⁄16 in to 9⁄16 in	(10) 6-Point	None	Rail	Proto	**5C862**
		3⁄16 in to 9⁄16 in	(10) 6-Point	None	Rail	SK Tools	**20K441**
		3⁄16 in to 9⁄16 in	(10) 6-Point, 12-Point	None	None	Ability One	**40KJ21**
		3⁄16 in to 9⁄16 in	(10) 12-Point	None	Rail	Proto	**5C863**
		3⁄16 in to 9⁄16 in	(10) 12-Point	None	Rail	SK Tools	**20K438**
		3⁄16 in to 9⁄16 in	None	(10) 6-Point	Rail	SK Tools	**20K429**
		3⁄16 in to 9⁄16 in	None	(10) 12-Point	Rail	Proto	**1AC60**
		3⁄16 in to 9⁄16 in	None	(10) 12-Point	None	Proto	**1AC61**
		3⁄16 in to 9⁄16 in	None	(10) 12-Point	Rail	SK Tools	**20K427**
¼ in, ⅜ in	37	1⁄16 in to 5⁄16 in	(37) 6-Point	None	Metal Box	Proto	**49XF37**
⅜ in	5	¼ in to ½ in	(5) 8 Point	None	Rail	Proto	**31XR44**
	6	11⁄16 in to 1 in	(6) 6-Point	None	Rail	Westward	**53PN38**
		11⁄16 in to 1 in	(6) 12-Point	None	Rail	Westward	**53PN42**
		11⁄16 in to 1 in	None	(6) 6-Point	Rail	Westward	**53PN40**
		11⁄16 in to 1 in	None	(6) 12-Point	Rail	Westward	**53PN44**
	9	¼ in to ⅝ in	(9) 6-Point	None	Rail	Westward	**53PN37**
		¼ in to ⅝ in	(9) 12-Point	None	Rail	Westward	**53PN41**
		¼ in to ⅝ in	None	(9) 6-Point	Rail	Westward	**53PN39**
		¼ in to ⅝ in	None	(9) 12-Point	Rail	Westward	**53PN43**
	10	3⁄16 in to ¾ in	(10) 6-Point	None	Rail	Proto	**5TH20**
		5⁄16 in to ⅞ in	(10) 6-Point	None	Rail	Proto	**5C871**
		5⁄16 in to ⅞ in	(10) 12-Point	None	Rail	Proto	**1AC77**
		5⁄16 in to ⅞ in	None	(10) 6-Point	Rail	Proto	**4JW16**
		5⁄16 in to ⅞ in	None	(10) 12-Point	Rail	Proto	**4JW15**
	11	¼ in to ⅞ in	(11) 12-Point	None	None	Ability One	**40KJ18**
	13	¼ in to 1 in	(13) 6-Point	None	Rail	Proto	**5C872**
		¼ in to 1 in	(13) 6-Point	None	Rail	SK Tools	**20K479**
		¼ in to 1 in	(13) 12-Point	None	Rail	Proto	**5C867**
		¼ in to 1 in	(13) 12-Point	None	Rail	SK Tools	**20K475**
		¼ in to 1 in	None	(13) 6-Point	Rail	Proto	**5C874**
		¼ in to 1 in	None	(13) 6-Point	Rail	SK Tools	**20J998**
		¼ in to 1 in	None	(13) 12-Point	Rail	SK Tools	**20K458**
		¼ in to ⅞ in	None	(13) 12-Point	None	Ability One	**40KJ17**
	20	5⁄16 in to ⅞ in	(10) 6-Point	(10) 6-Point	Rail	SK Tools	**20K473**
⅜ in, ½ in	50	5⁄16 in 1 in	(50) 6-Point, 12-Point	(11) 6-Point	Rail	Proto	**49XF38**
½ in	7	1 in to 1 ⅜ in	(7) 6-Point	None	Rail	Westward	**53PN58**
		1 ⅜ in to 1 in	(7) 12-Point	None	Rail	Westward	**53PN62**
		1 ⅜ in to 1 in	None	(7) 6-Point	Rail	Westward	**53PN60**
		1 ⅜ in to 1 in	None	(7) 12-Point	Rail	Westward	**53PN64**
	10	⅜ in to 15⁄16 in	(10) 6-Point	None	Rail	Westward	**53PN57**
		⅜ in to 15⁄16 in	(10) 12-Point	None	Rail	Westward	**53PN61**
		⅜ in to 15⁄16 in	None	(10) 6-Point	Rail	Westward	**53PN59**
		⅜ in to 15⁄16 in	None	(10) 12-Point	Rail	Westward	**53PN63**
	11	½ in to 1 ⅛ in	None	(21) 12-Point	Rail	Proto	**15V181**
		9⁄16 in to 1 ⅛ in	None	(11) 12-Point	None	Westward	**4LXC7**
	12	½ in to 1 ¼ in	None	(12) 6-Point	Rail	SK Tools	**20K411**
		½ in to 1 ¼ in	None	(12) 12-Point	Rail	SK Tools	**20K405**
	13	⅜ in to 1 ⅛ in	(13) 12-Point	None	None	Ability One	**40KJ16**
		⅜ in to 1 ⅛ in	None	(13) 12-Point	None	Ability One	**40KJ15**
		7⁄16 in to 1 ¼ in	(13) 6-Point	None	Rail	SK Tools	**42W707**
	15	⅜ in to 1 ¼ in	(15) 6-Point	None	Rail	Proto	**5C893**
		⅜ in to 1 ¼ in	(15) 12-Point	None	Rail	Proto	**5C887**
		⅜ in to 1 ¼ in	(15) 12-Point	None	Rail	SK Tools	**20J992**
		⅜ in to 1 ¼ in	None	(15) 6-Point	Rail	Proto	**4JW24**
		⅜ in to 1 ¼ in	None	(15) 12-Point	Rail	Proto	**4JW26**
	19	⅜ in to 1 ½ in	(19) 6-Point	None	Rail	Proto	**4JW27**
		⅜ in to 1 ½ in	(19) 6-Point	None	Rail	SK Tools	**20J995**
		⅜ in to 1 ½ in	(19) 12-Point	None	Rail	Proto	**4JW28**
		⅜ in to 1 ½ in	None	(19) 6-Point	Rail	Proto	**4JW23**
		⅜ in to 1 ½ in	None	(19) 6-Point	Plastic Case	SK Tools	**20K350**
		⅜ in to 1 ½ in	None	(19) 12-Point	Rail	Proto	**4JW25**
		⅜ in to 1 ½ in	None	(19) 12-Point	Rail	SK Tools	**20K407**
	34	⅜ in to 1 ⅜ in	(17) 12-Point	(17) 12-Point	Plastic Case	Westward	**53PN56**
¾ in	13	¾ in to 1 ½ in	None	(13) 6-Point	Metal Box	Wright Tool	**29AT74**

CONTINUED

All Purpose SAE Socket Sets

SAE Socket Set
31XR44

Tether-Ready
24AH61

Socket Set with
Drive Tool & Wrenches
5C897

Socket Sets
with Socket
Bits & Drive
Tools
5C860

CONTINUED

All Purpose SAE Socket Sets

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
Satin Finish							
⅜ in	12	5/16 in to 1 in	(12) 6-Point	None	None	Ability One	**466N77**
¾ in		⅞ in to 1 ⅝ in	None	(12) 6-Point	None	Proto	**42W527**
SAE Tether-Ready Socket Sets							
Chrome Finish							
⅜ in	13	¼ in to 1 in	(13) 12-Point	None	Rail	Proto	**24AH47**
		¼ in to 1 in	None	(13) 12-Point	Rail	Proto	**24AH61**
½ in	19	⅜ in to 1 ½ in	(19) 12-Point	None	Rail	Proto	**24AJ01**
		⅜ in to 1 ½ in	None	(11) 12-Point	Rail	Proto	**24AJ21**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Container Type	Brand	Item No.
SAE Socket Sets with Drive Tools								
Chrome Finish								
¼ in	14	3/16 in to 9/16 in	(10) 12-Point	None	5 in Pear Head Ratchet	Foam Tray	Ability One	**40KJ20**
	21	3/16 in to ½ in	(10) 6-Point	(7) 6-Point	4 ½ in Round head ratchet	Plastic Case	SK Tools	**20K425**
	22	¼ in to 9/16 in	(9) 12-Point	(9) 6-Point	4 ½ in Round Head Ratchet	Plastic Case	SK Tools	**20K424**
	23	5/32 in to ½ in	(10) 12-Point	(10) 12-Point	7 ½ in Round Head Ratchet	Plastic Case	Westward	**53PN23**
¼ in, ⅜ in	23	3/16 in to ⅞ in	(17) 12-Point, (17) 6-Point	None	¼ in Drive Socket Spinner, 8 ½ in Quick-Release Ratchet	Plastic Case	Westward	**4PL99**
¼ in	25	3/16 in to 9/16 in	(10) 12-Point	(10) 12-Point	5 in Quick-Release Ratchet, Socket Spinner	Plastic Case	Westward	**1EZR4**
	26	3/16 in to 9/16 in	(10) 6-Point	(10) 6-Point	¼ in Pear Head Ratchet	None	Proto	**54JG21**
	27	5/32 in to 9/16 in	(11) 6-Point	(11) 6-Point	5 in Quick-Release Ratchet	Plastic Case	Westward	**1EZR2**
	28	3/16 in to ½ in	(8) 6-Point	None	5 ½ in Pear Head Ratchet	Pouch	Wera	**38UR80**
	28	3/16 in to ½ in	(8) 6-Point	None	6 in Speed Ratchet	Pouch	Wera	**45YM98**
	28	3/16 in to ½ in	(8) 6-Point	None	5 35/64 in Pear Head Ratchet	Pouch	Wera	**45YM99**
	41	3/16 in to 9/16 in	(10) 6-Point	None	6 in Flex Head Ratchet	Metal Box	Wera	**5EPL9**
⅜ in	12	⅜ in to ⅞ in	(9) 12-Point	None	8 ½ in Quick-Release Ratchet	Plastic Case	Westward	**4PL88**
	18	¼ in to 1 in	(15) 12-Point	None	10 ½ Round Head Ratchet	Plastic Case	Westward	**53PN35**
	21	¼ in to ⅞ in	(10) 6-Point	(9) 6-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**20K452**
	21	¼ in to ⅞ in	(10) 12-Point	(9) 12-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**20K450**
	23	⅜ in to ⅞ in	(9) 6-Point	(9) 6-Point	⅜ in Pear Head Ratchet	None	Proto	**54JG22**
	23	⅜ in to ⅞ in	(9) 6-Point	(9) 6-Point	⅜ in Pear Head Ratchet	None	Proto	**54JG23**
	23	⅜ in to ⅞ in	(9) 12-Point	(9) 12-Point	⅜ in Pear Head Ratchet	None	Proto	**54JG24**
	23	⅜ in to ⅞ in	(9) 12-Point	(9) 12-Point	⅜ in Pear Head Ratchet	None	Proto	**54JG25**
	29	¼ in to ¾ in	(8) 6-Point	None	8 ¾ in Pear Head Ratchet	Pouch	Wera	**38UR83**
	29	¼ in to ¾ in	(8) 6-Point	None	8 ¾ in Speed Ratchet	Pouch	Wera	**45YN01**
	29	¼ in to ¾ in	(8) 6-Point	None	8 ¾ in Round Head Ratchet	Pouch	Wera	**45YN02**
	32	¼ in to 1 in	(14) 6-Point	(14) 6-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**20K454**
	38	¼ in to ⅞ in	(12) 6-Point	None	8 13/16 Flex Head Ratchet	Metal Box	Wera	**5EPN6**
½ in	16	7/16 in to 1 ¼ in	(13) 12-Point	None	10 5/16 in Round Head Ratchet	Plastic Case	SK Tools	**20J994**
	17	⅜ in to 1 ⅛ in	(13) Spline	None	10 in Pear Head Ratchet	Foam Tray	Ability One	**40KJ22**
	17	⅜ in to 1 ⅛ in	(14) 12-Point	None	10 in Quick-Release Ratchet	Plastic Case	Westward	**4PL90**
	18	⅜ in to 1 ¼ in	(15) 6-Point	None	11 in Pear Head Ratchet	Plastic Case	Westward	**4LXA2**
	19	⅜ in to 1 ¼ in	(15) 6-Point	None	½ in Pear Head Ratchet	None	Proto	**54JG28**
	19	⅜ in to 1 ¼ in	(15) 12-Point	None	½ in Pear Head Ratchet	None	Proto	**54JG27**
	23	7/16 in to 1 ¼ in	(14) 12-Point	(7) 12-Point	10 5/16 in Round Head Ratchet	Plastic Case	SK Tools	**20J991**
	26	⅜ in to 1 ¼ in	(18) 12-Point	None	10 in Pear Head Ratchet	Plastic Case	Westward	**4LXA6**
	26	⅜ in to 1 ¼ in	(19) 12-Point	None	10 in Pear Head Ratchet	None	Proto	**5C888**
	26	7/16 in to 1 ¼ in	(13) 6-Point, 12-Point	(13) 12-Point	11 in Pear Head Ratchet, 16 in Breaker Bar	Plastic Case	Westward	**4LWZ8**
	28	⅜ in to 13/16 in	(8) 6-Point	None	11 in Pear Head Ratchet	Pouch	Wera	**38UR86**
	28	⅜ in to 13/16 in	(8) 6-Point	None	11 in Speed Ratchet	Pouch	Wera	**45YN04**
	28	⅜ in to 13/16 in	(8) 6-Point	None	11 in Pear Head Ratchet, 11 in Speed Ratchet	Pouch	Wera	**45YN05**
	28	⅜ in to 1 ¼ in	(15) 6-Point	(9) 6-Point	10 5/16 in Round Head Ratchet	Plastic Case	SK Tools	**20K413**
	31	⅜ in to 1 ¼ in	(14) 12-Point	(12) 12-Point	½ in Pear Head Ratchet	None	Proto	**54JG29**
	31	⅜ in to 1 ¼ in	(14) 12-Point	(12) 12-Point	½ in Pear Head Ratchet	None	Proto	**54JG30**
	31	⅜ in to 1 ¼ in	(14) 12-Point	(12) 12-Point	½ in Pear Head Ratchet	None	Proto	**54JG31**
	37	⅜ in to 1 ⅜ in	(17) 12-Point	(17) 12-Point	½ in Pear Head Ratchet	Plastic Case	Westward	**53PN53**
	38	⅜ in to 1 ¼ in	(19) 6-Point	None	11 in Flex Head Ratchet	Metal Box	Wera	**5EPP3**
	40	⅜ in to 1 ½ in	(19) 12-Point	(12) 12-Point	10 5/16 in Round head ratchet	Plastic Case	SK Tools	**20J997**
¾ in	13	⅞ in to 1 ⅝ in	(11) 12-Point	None	24 in Round Head Ratchet, 8 in Extention	Metal Box	Wright Tool	**29AT72**
	19	⅞ in to 2 in	(16) 12-Point	None	24 in Round Head Ratchet, 8 in Extention, Flex Handle	Metal Box	Wright Tool	**29AT73**
	21	⅞ in to 2 in	(16) 12-Point	None	20 in Quick-Release Ratchet	Plastic Case	Westward	**4YP81**
	22	⅞ in to 2 in	(18) 12-Point	None	24 in Round Head Ratchet, 3 ½ in Extention, 8 in Extention, Sliding T	Metal Box	Wright Tool	**29AT70**
	31	⅞ in to 2 ⅜ in	(23) 12-Point	None	24 in Round Head Ratchet	Metal Box	Wright Tool	**29AT71**
1 in	17	1 7/16 in to 2 ½ in	(11) 12-Point	None	6 ½ Pear Ratchet Head	Metal Box	Westward	**42W522**
	21	1 7/16 in to 3 ⅛ in	(17) 12-Point	None	30 in Round Head Ratchet	Metal Box	Wright	**48J314**
	29	1 7/16 in to 3 ⅛ in	(23) 12-Point	None	30 in Round Head Ratchet	Metal Box	Wright	**48J315**
SAE Socket Sets with Drive Tools & Wrenches								
Chrome Finish								
½ in	27	7/16 in to 1 ¼ in	(13) 12 Point	None	(7) 12 Point Combo Wrenches, 10 in Pear Head Ratchet	Metal Box	Proto	**5C897**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Socket Bits Included	Container Type	Brand	Item No.
SAE Socket Sets with Socket Bits & Drive Tools									
Chrome Finish									
⅜ in	58	¼ in to 1 in	(18) 12-Point	(13) 12-Point	7 in Pear Head Ratchet	(1) Slotted ¼ in, (3) Phillips: #2, #3, #4, (7) Hex: ¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in	None	Proto	**5C860**
½ in	59	⅜ in to 1 ½ in	(10) 8-Point, (22) 12-Point	None	10 in, 16 in Pear Head Ratchet	(1) Hex: ¼ in	Metal Box	Proto	**5C898**
	65	⅜ in to 1 ½ in	(22) 12-Point, (10) 8-Point	None	10 in, 16 in Pear Head Ratchet	(7) Hex: ¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in	None	Proto	**54JG32**

For more information on Sockets, see page 757.

Socket Set
53PN73

SAE & Metric Set
with Drive Tools
12D205

SAE & Metric with
Drive Tools &
Wrenches
4YP77

PROTO® WESTWARD SK® Milwaukee CRESCENT

All Purpose SAE & Metric Socket Sets

- Chrome finish

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
SAE & Metric Socket Sets							
¼ in	22	3⁄16 in to 9⁄16, 4 mm to 14 mm	(22) 6-Point	None	Rail	Proto	**33HE19**
¼ in, ⅜ in, ½ in	86	4 mm to 25 mm, 5⁄32 in to 1 in	(70) 6-Point, 12-Point	(12) 6-Point, (4) 12-Point	Plastic Case	Westward	**53PN73**
	202	4 to 32, 5⁄32 in to 1 ¼ in	(128) 6-Point, 12-Point	(74) 6-Point, 12-Point	—	Westward	**40JD46**
	205	4 mm to 32 mm, 5⁄32 in to 1 ½ in	(126) 6-Point, 12-Point	(74) 6-Point, 12-Point, 8 Point	Rail	Proto	**33TA23**
		4 mm to 32 mm, 5⁄32 in to 1 ½ in	(131) 6-Point, 12-Point, 8 Point	(74) 6-Point, 12-Point, 8 Point	Rail	Proto	**33TA22**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Container Type	Brand	Item No.
SAE & Metric Socket Sets with Drive Tools								
½ in	18	¼ in to ¾ in, 6 mm to 19 mm	0	0	—	Blow Mold Case	Proto	**60ML12**
	23	⅜ in to 1 in, 10 mm to 19 mm	(21) 6-Point	0	—	Blow Mold Case	Proto	**60ML19**
	25	9 mm to 23 mm	(22) 12-Point	0	—	Blow Mold Case	Proto	**60ML13**
	26	14 mm to 32 mm, 7⁄16 in to 1 ¼ in	(22) 6-Point, 12-Point	None	10 in Quick-Release Ratchet	Plastic Case	Westward	**4PM03**
	44	⅜ in to 1 7⁄16 in, 8 mm to 27 mm	(38) 6-Point	0	—	Blow Mold Case	Proto	**60ML25**
	47	½ in to 1 ⅛ in, 10 mm to 24 mm	(26) 12-Point	(14) 12-Point	10 5⁄16 in Round Head Ratchet	Plastic Case	SK Tools	**12D205**
		½ in to 1 ⅛ in, 10 mm to 24 mm	(26) 6-Point	(14) 6-Point	10 5⁄16 Round Head Ratchet	Plastic Case	SK Tools	**12D207**
		½ in to 1 ⅛ in, 10 mm to 24 mm	(26) 6-Point	(18) 6-Point	11 ¼ in Pear Head Ratchet	Plastic Case	Milwaukee	**55KM74**
¼ in	15	4 mm to 12 mm	(10) 6-Point	0	—	Blow Mold Case	Proto	**60MK90**
	22	5⁄32 in to 7/15 in, 4 mm to 10 mm	(18) 6-Point	0	—	Blow Mold Case	Proto	**60MK91**
	24	3⁄16 in to 9⁄16 in, 5 mm to 14 mm	(21) 12-Point	0	—	Blow Mold Case	Proto	**60MK92**
	27	3⁄16 in to ½ in, 7 mm to 13 mm	(19) 6-Point, 12-Point	(6) 6-Point	5 in Pear Head Ratchet	Plastic Case	Westward	**4LXC2**
	28	3⁄16 in to ½ in, 4 mm to 13 mm	(19) 6-Point	(7) 6-Point	5 ½ in Pear Head Ratchet	Plastic Case	Westward	**33HD81**
	36	⅛ in to ⅝ in, 4 mm to 16 mm	(31) 6-Point	0	—	Blow Mold Case	Proto	**60MK93**
	47	3.5 mm to 12 mm, 5⁄32 in to ½ in	(22) 12-Point	(22) 12-Point	5 in Round Head Ratchet	Plastic Case	Westward	**53PN22**
		3⁄16 in to 9⁄16 in, 5 mm to 14 mm	(21) 12-Point	(21) 12-Point	—	Blow Mold Case	Proto	**60MK94**
	48	3⁄16 in to 9⁄16 in, 4 mm to 15 mm	(48) 6-Point	(18) 6-Point	1 ½ in Thumbwheel Ratchet, 4 ½ in Round Head Ratchet	Plastic Case	SK Tools	**12D199**
	50	5 mm to 15 mm, 5⁄32 in to 9⁄16 in	(25) 6-Point	(23) 6-Point	6 in Pear Head Ratchet	Plastic Case	Milwaukee	**55KM63**
	51	5⁄32 in to 9⁄16 in, 4 mm to 13 mm	(31) 6-Point	(22) 6-Point	—	Blow Mold Case	Proto	**60MK95**
	60	⅛ in to ⅝ in, 4 mm to 16 mm	(28) 6-Point	(11) 6-Point	4 ½ in Round Head Ratchet	Plastic Case	SK Tools	**12D202**
¼ in, ⅜ in	51	3⁄16 in to ⅞ in, 4 mm to 19 mm	(40) 6-Point, 12-Point	(6) 12-Point	¼ in Drive Socket Spinner, 8 ½ in Quick-Release Ratchet 8½ in	Plastic Case	Westward	**4YP76**
	63	⅛ in to ¾ in, 5 mm to 18 mm	(17) 12-Point, (19) 6-Point	(18) 6-Point	5 in, 7 in Pear Head Ratchet	None	Proto	**33HE09**
	65	4 mm to 17 mm, 5⁄32 in to 13⁄16 in	(21) 6-Point, (15) 12-Point	None	7 in Pear Head Ratchet	None	Proto	**33HE14**
		3⁄16 in to ⅞ in, 4 mm to 19 mm	(30) 6-Point, (9) 12-Point	(9) 12-Point, (9) 6-Point	5 ½ in, 7 ¾ in Pear Head Ratchet	None	Proto	**33HE13**
	70	¼ in to ¾ in, 4 mm to 19 mm	(30) 6-Point	(12) 6-Point	Pear Head Ratchets	Plastic Case	Westward	**55MT04**
	91	4 mm to 19 mm, 5⁄32 in to ¾ in	(35) 12-Point	(11) 12-Point	5 in Round Head Ratchet, 8 in Pear Head Ratchet	Plastic Case	Westward	**53PN77**
	102	4 mm to 19 mm, 5⁄32 in to 13⁄16 in	(42) 6-Point, 12-Point	(10) 12-Point, (10) 6-Point	8 ½ Pear Head Ratchet	Plastic Case	Westward	**3FE99**
¼ in, ⅜ in, ½ in	81	4 mm to 19 mm, 5⁄32 in to 13⁄16 in	(30) 6-Point, (31) 12-Point	(4) 6-Point, (7) 12-Point	7 in, 10 in Pear Head Ratchet	None	Proto	**33HE12**
	82	4 mm to 19 mm, 5⁄32 in to 13⁄16 in	(69) 6-Point, 12-Point	(8) 6-Point	5 ½, 7 ½ in, 9 11⁄16 in Quick-Release Ratchet	Plastic Case	Westward	**40JD40**
	89	4 mm to 19 mm, 5⁄32 in to ⅞ in	(73) 6-Point, 12-Point	(4) 6-Point, (4) 12-Point	5 in, 8 ½ in, 11 in Quick-Release Ratchets	Plastic Case	Westward	**4PM18**
	99	4 mm to 19 mm, 5⁄32 in to 1 in	(53) 6-Point, 12-Point	(22) 6-Point, (8) 12-Point	5 ½ in, 7 ¾ in, 10 in Pear Head Ratchets	Plastic Case	Westward	**33HD77**
	101	4 mm to 19 mm, 5⁄32 in to 1 in	(19) 12-Point, (26) 6-Point, (5) 8-Point	(27) 6-Point, (9) 12-Point	5 in, 7 in, 10 in Pear Head Ratchet	Tool Box	Proto	**33HE07**
		4 mm to 19 mm, 5⁄32 in to 1 in	(19) 12-Point, (31) 6-Point	(27) 6-Point, (9) 12-Point	5 in, 7 in, 10 in Pear Head Ratchet	None	Proto	**33HE15**
	183	¼ in to 13⁄16 in, 4 mm to 22 mm	(58) 6-Point	(28) 6-Point	5 in Round Head Ratchet	Plastic Case	Westward	**55MT03**
⅜ in	22	10 mm to 19 mm, ⅝ in	(10) 6-Point	(8) 6-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**20K455**
	23	¼ in to ¾ in, 7 mm to 17 mm	(20) 6-Point	0	—	Blow Mold Case	Proto	**60ML18**
		¼ in to ¾ in, 8 mm to 19 mm	(22) 12-Point	None	7 ¾ in Pear Head Ratchet	Plastic Case	Westward	**33M312**
	32	¼ in to ⅞ in, 8 mm to 20 mm	(26) 12-Point	0	—	Blow Mold Case	Proto	**60ML05**
	33	¼ in to ⅞ in, 6 mm to 22 mm	(28) 12-Point	None	8 ½ in Quick-Release Ratchet	Plastic Case	Westward	**6XZ84**
	34	5⁄16 in to ⅞ in, 8 mm to 19 mm	(21) 12-Point	(9) 12-Point	7 in Pear Head Ratchet	None	Proto	**33HE11**
		5⁄16 in to ⅞ in, 8 mm to 19 mm	(21) 12-Point	(9) 12-Point	7 in Pear Head Ratchet	Metal Box	Proto	**33HE03**
	35	⅜ in to ¾ in	(14) 12-Point	(11) 6-Point	Blank	Blow Mold Case	Crescent	**61HJ71**
	38	¼ in to 1 in, 6 mm to 25 mm	(35) 12-Point	None	10 ½ Round Head Ratchet	Plastic Case	Westward	**53PN34**
	47	¼ in to ⅞ in, 6 mm to19 mm	(25) 12-Point	(16) 12-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**12D209**
	49	¼ in to ⅞ in, 6 mm to 19 mm	(25) 6-Point	(17) 6-Point	7 ½ in Round head ratchet	Plastic Case	SK Tools	**12D203**
		¼ in to ⅞ in, 6 mm to 21 mm	(25) 6-Point	(19) 6-Point	8 ½ in Pear Head Ratchet	Plastic Case	Westward	**1KEH7**
	53	¼ in to ¾ in, 6 mm to 19 mm	(25) 12-Point	(24) 12-Point	—	Blow Mold Case	Proto	**60ML06**
		5⁄16 in to ⅞ in, 6 mm to 22 mm	(27) 12-Point	(20) 12-Point	8 ½ in Quick-Release Ratchet	Plastic Case	Westward	**6XZ83**
	56	¼ in to 1 in, 6 mm to 19 mm	(26) 6-Point	(25) 6-Point	8 ½ in Pear Head Ratchet	Plastic Case	Milwaukee	**55KM62**
	63	¼ in to 1 in, 5.5 mm to 20 mm	(30) 12-Point	(28) 6-Point	—	Blow Mold Case	Proto	**60ML07**
	73	¼ in to 1 in, 6 mm to 25 mm	(25) 12-Point	(35) 12-Point	10 ½ Round Head Ratchet	Plastic Case	Westward	**53PN33**

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For more information on Sockets, see page 757.

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All Purpose SAE & Metric Socket Sets

PROTO® WESTWARD® SK® Milwaukee CRESCENT

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Container Type	Brand	Item No.
SAE & Metric Socket Sets with Drive Tools & Wrenches								
¼ in, ⅜ in, ½ in	145	4 mm to 20 mm, 5⁄32 in to 1 in	(62) 6-Point	(41) 6-Point	(1) ½ in Drive Quick-Release Ratchet, (1) ¼ in Drive Extension 3 in, (1) ¼ in Drive Quick-Release Ratchet, (1) ⅜ in Drive Extension 3 in, (1) ⅜ in Drive Quick-Release Ratchet, (12) Combination Wrenches, ⅜ in D Spark plug socket ⅝ in, 13⁄16 in, Hex Key, Magnetic Spinner	Plastic Case	Westward	4YP77

SK® PROTO® AbilityOne PROGRAM SUPPLIER DIVERSITY® WESTWARD® WRIGHT TOOL Wera

All Purpose Metric Socket Sets

Socket Set
53PN46

Tether-Ready
24AH28

Metric Set with Drive Tool
20K357

Socket Set with Socket Bits & Drive Tools
5C885

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
Metric Socket Sets							
Chrome							
¼ in	10	5 mm to 14 mm	(10) 12-Point	None	Rail	SK Tools	20K440
	11	5 mm to 14 mm	(11) 12-Point	None	Rail	Proto	5F388
		5 mm to 14 mm	(11) 12-Point	None	Rail	Proto	5F387
		5 mm to 14 mm	None	(11) 6-Point	None	Ability One	466N74
		5 mm to 14 mm	None	(11) 6-Point	None	Ability One	466N75
		5 mm to 14 mm	None	(11) 12-Point	Rail	SK Tools	20K428
	12	3.5 mm to 12 mm	(12) 6-Point	None	Rail	Westward	53PN29
		3.5 mm to 12 mm	(12) 12-Point	None	Rail	Westward	53PN31
		3.5 mm to 12 mm	None	(12) 6-Point	Rail	Westward	53PN30
		3.5 mm to 12 mm	None	(12) 12-Point	Rail	Westward	53PN32
		4 mm to 14 mm	(12) 6-Point	None	Rail	Proto	5C855
		4 mm to 14 mm	None	(6) 6-Point	Rail	Proto	5C853
		5 mm to 15 mm	None	None	Rail	Proto	5F389
	13	4 mm to 15 mm	(13) 6-Point	None	Rail	SK Tools	20K439
		4 mm to 15 mm	None	(13) 6-Point	Rail	SK Tools	20K430
⅜ in	6	20 mm to 25 mm	(6) 6-Point	None	Rail	Westward	53PN46
		20 mm to 25 mm	(6) 12-Point	None	Rail	Westward	53PN50
		20 mm to 25 mm	None	(6) 6-Point	Rail	Westward	53PN48
		20 mm to 25 mm	None	(6) 12-Point	Rail	Westward	53PN52
	7	9 mm to 15 mm	None	None	Rail	Proto	1AC86
	11	9 mm to 19 mm	None	(11) 12-Point	Rail	SK Tools	20K459
	12	8 mm to 19 mm	(12) 6-Point	None	Rail	Proto	1AC94
		8 mm to 19 mm	(12) 12-Point	None	Rail	Proto	1AC92
		8 mm to 19 mm	None	(12) 6-Point	Rail	Proto	4JW18
		8 mm to 19 mm	None	(12) 12-Point	Rail	Proto	4JW20
		8 mm to 19 mm	None	(13) 12-Point	None	Ability One	466N73
	13	7 mm to 19 mm	(13) 6-Point	None	Rail	SK Tools	42W703
		7 mm to 19 mm	(13) 12-Point	None	Rail	SK Tools	20K476
	14	6 mm to 19 mm	(14) 6-Point	None	Rail	Westward	53PN45
		6 mm to 19 mm	(14) 12-Point	None	Rail	Westward	53PN49
		6 mm to 19 mm	None	(14) 6-Point	Rail	Westward	53PN47
		6 mm to 19 mm	None	(14) 6-Point	Rail	SK Tools	20K460
		6 mm to 19 mm	None	(14)12-Point	Rail	Westward	53PN51
	18	6 mm to 23 mm	None	(9) 6-Point	Rail	Proto	4JW17
		6 mm to 23 mm	None	(9) 12-Point	Rail	Proto	4JW19
	19	6 mm to 24 mm	(19) 6-Point	None	Rail	SK Tools	20K480
	21	6 mm to 26 mm	(21) 6-Point	None	Rail	Proto	4JW21
		6 mm to 26 mm	(21) 12-Point	None	Rail	Proto	4JW22
	24	8 mm to 19 mm	(12) 6-Point	(12) 6-Point	Rail	SK Tools	20K474
⅜ in, ½ in	39	5⁄16 in to 1 in	(34) 6-Point	(11) 6-Point	Rail	Proto	49XF39
½ in	10	22 mm to 32 mm	(10) 6-Point	None	Rail	Westward	53PN66
		22 mm to 32 mm	(10) 12-Point	None	Rail	Westward	53PN70
		22 mm to 32 mm	None	(10) 6-Point	Rail	Westward	53PN68
		22 mm to 32 mm	None	(10) 12-Point	Rail	Westward	53PN72
	12	10 mm to 21 mm	(12) 6-Point	None	Rail	Westward	53PN65
		10 mm to 21 mm	(12) 12-Point	None	Rail	Westward	53PN69
		10 mm to 21 mm	None	(12) 6-Point	Rail	Westward	53PN67
		10 mm to 21 mm	None	(12) 12-Point	Rail	Westward	53PN71
	13	12 mm to 24 mm	None	(13) 12-Point	None	Ability One	466N72
		15 mm to 32 mm	(13) 12-Point	None	Rail	SK Tools	20K414
	15	10 mm to 24 mm	(15) 6-Point	None	Rail	Proto	5F466
		10 mm to 24 mm	(15) 6-Point	None	Plastic Case	SK Tools	20K404
		10 mm to 24 mm	(15) 12-Point	None	Rail	Proto	5C902
		10 mm to 24 mm	None	(15) 6-Point	Rail	SK Tools	20K409
		10 mm to 24 mm	None	(15) 12-Point	Rail	Proto	4JW30
	21	10 mm to 32 mm	None	(21) 12-Point	Rail	SK Tools	20K408
	23	10 mm to 32 mm	(23) 6-Point	None	Rail	Proto	4JW31
		10 mm to 32 mm	(23) 12-Point	None	Rail	Proto	4JW29
	24	10 mm to 36 mm	(24) 12-Point	None	Rail	Proto	4JW32
		10 mm to 36 mm	(24) 12-Point	None	Rail	SK Tools	20K416
	44	10 mm to 32 mm	(27) 12-Point	(17) 12-Point	Plastic Case	Westward	53PN54
	47	10 mm to 32 mm	(25) 12-Point	(22) 12-Point	Plastic Case	Westward	53PN55
¾ in	24	19 mm to 60 mm	(24) 12-Point	None	None	Wright Tool	29AT75
Satin							
⅜ in	14	8 to 24 mm	(14) 6-Point	None	None	Ability One	466N76
Metric Tether-Ready Socket Sets							
Chrome							
⅜ in	18	6 mm to 23 mm	None	(18) 12-Point	Rail	Proto	24AH28
	21	6 mm to 26 mm	(21) 12-Point	None	Rail	Proto	24AH06
½ in	24	10 mm to 36 mm	(24) 12-Point	None	Rail	Proto	24AH75

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For more information on Sockets, see page 757.

All Purpose Metric Socket Sets

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Container Type	Brand	Item No.
Metric Socket Sets with Drive Tools								
Black Phosphate								
⅜ in	33	6 mm to 19 mm	(14) 6-Point	14	—	Blow Mold Case	Proto	**60ML21**
	58	¼ in to 1 in, 6 mm to 19 mm	(27) 6-Point	26	—	Blow Mold Case	Proto	**60ML24**
½ in	32	10 mm to 22 mm	(13) 6-Point	13	—	Blow Mold Case	Proto	**60ML23**
Chrome								
¼ in	14	4 mm to 12 mm	(11) 6-Point	0	—	Blow Mold Case	Proto	**60MK89**
	21	4 mm to 12 mm	(9) 6-Point	(7) 6-Point	4 ½ in Round Head Ratchet	Plastic Case	SK Tools	**20K426**
	27	3.5 mm to 12 mm	(12) 12-Point	(12) 12-Point	7 ½ in Round Head Ratchet	Plastic Case	Westward	**53PN24**
	28	5 mm to 13 mm	(8) 6-Point	None	5 ½ Pear Head Ratchet	Pouch	Wera	**38UR79**
	42	4 mm to 14 mm	(14) 6-Point	None	6 in Flex Head Ratchet	Metal Box	Wera	**5EPL7**
¼ in, ⅜ in	62	4 mm to 22 mm	(31) 6-Point	(16) 6-Point	4 ½ in, 7 ⅝ in Round Head Ratchet	Plastic Case	SK Tools	**20K446**
⅜ in	12	10 mm to 18 mm	(9) 6-Point	(9) 6-Point	—	Blow Mold Case	Proto	**60MK98**
	23	6 mm to 25 mm	(20) 12-Point	None	⅜ in Round Head Ratchet	Plastic Case	Westward	**53PN36**
	29	8 mm to 19 mm	(8) 6-Point	None	Round Head Ratchet	Pouch	Wera	**483F82**
		8 mm to 19 mm	(8) 6-Point	None	8 ¾ Pear Head Ratchet	Pouch	Wera	**38UR82**
	30	8 mm to 19 mm	(12) 12-Point	(12) 12-Point	⅜ in Pear Head Ratchet	None	Proto	**54JG26**
	34	6 mm to 19 mm	(14) 12-Point	(14) 6-Point	—	Blow Mold Case	Proto	**60ML03**
	43	6 mm to 24 mm	(18) 6-Point	None	9 in Flex Head Ratchet	Metal Box	Wera	**5EPN4**
½ in	17	10 mm to 28 mm	(14) 12-Point	None	11 in Pear Head Ratchet	Plastic Case	Westward	**4LXC8**
	18	9 mm to 23 mm	(15) 6-Point	0	—	Blow Mold Case	Proto	**60ML10**
		9 mm to 23 mm	(15) 12-Point	0	—	Blow Mold Case	Proto	**60ML11**
	22	10 mm to 26 mm	(17) 12-Point	None	10 in Pear Head Ratchet	None	Proto	**5C903**
	28	10 mm to 19 mm	(8) 6-Point	None	½ in Round Head Ratch	Pouch	Wera	**483F83**
		10 mm to 19 mm	(8) 6-Point	None	11 in Pear Head Ratchet, 11 in Speed Ratchet	Pouch	Wera	**45YN03**
		10 mm to 19 mm	(8) 6-Point	None	11 in Pear Head Ratchet	Pouch	Wera	**38UR85**
	30	8 mm to 21 mm	(14) 12-Point	(12) 12-Point	—	Blow Mold Case	Proto	**60ML14**
	37	10 mm to 32 mm	(17) 6-Point	None	10 29/32 in Flex Head Ratchet	Metal Box	Wera	**5EPP1**
	54	10 mm to 36 mm	(24) 12-Point	(21) 12-Point	10 5/16 in, 15 in Round Head Ratchet	Plastic Case	SK Tools	**20K357**
¾ in	19	⅞ in to 1 ¾ in	(15) 12-Point		—	Box	Proto	**783RZ2**
	21	19 mm to 50 mm	(16) 12-Point	None	20 in Quick-Release Ratchet 20	Plastic Case	Westward	**4YP83**
	28	¾ in to 2 ¼ in	(22) 12-Point		—		Proto	**783RZ3**
	31	19 mm to 60 mm	(24) 12-Point	None	24 in Round Head Ratchet	Metal Box	Wright Tool	**29AT76**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Drive Tools Included	Socket Bits Included	Container Type	Brand	Item No.
Metric Socket Sets with Socket Bits & Drive Tools									
Chrome									
⅜ in	57	6 mm to 22 mm	(17) 12-Point	(14) 12-Point	7 in Pear Head Ratchet	(1) Slotted: ¼ in, (3) Phillips: #2, #3, #4, (6) Hex: 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm	Metal Box	Proto	**5C885**
	58	6 mm to 22 mm	(17) 12-Point	(14) 12-Point	7 in Pear Head Ratchet	(1) Slotted: ¼ in, (3) Phillips: #2, #3, #4, (6) Hex: 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm	None	Proto	**5C884**
½ in	54	10 mm to 36 mm	(23) 12-Point	(16) 12-Point	10 in, 16 in Pear Head Ratchet	(6) Hex: 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 17 mm,	None	Proto	**5C905**

External Torx
54TN25

Torx Plus
60KD72

Torx Socket Sets

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
External Torx Impact Socket Sets							
Black Oxide							
¼ in, ⅜ in, ½ in	13	E4 to E24	(13) 6-Point	None	Rail	SK Tools	**42W710**
External Torx Socket Sets							
Chrome							
¼ in	6	E4 to E10	(6) Torx	None	—	Westward	**54TN25**
Torx Plus Socket Sets							
Rust Preventative							
¼ in, ⅜ in, ½ in	13	E4 to E24	(13) 6-Point	—	Rail	SK Tools	**60KD72**

½" Drive
2TLC7

Bolt Extraction Socket Sets

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Finish	Container Type	Brand	Item No.
⅜ in Drive Size							
9	¼ in to 1 in	(9) Bolt Extractors	None	Natural	Plastic Case	Irwin Hanson	**3LB71**
13	¼ in to 1 in	(13) Bolt Extractors	None	Natural	Plastic Case	Irwin Hanson	**3LB72**
½ in Drive Size							
5	¾ in to 1 in	(5) Bolt Extractors	None	Natural	Plastic Case	Irwin Hanson	**3LB73**
5	M6 to M10	(5) 4 Point	None	Chrome	None	Facom	**2TLC7**

For more information on Sockets, see page 757.

1AC83

Flex Socket Sets

- Chrome finish
- ⅜" Drive size

No. of Pieces	Socket Size Range	Flex Socket Count/Style	Container Type	Brand	Item No.
Metric					
10	10 mm to 19 mm	(10) 6-Point	None	Westward	**1EZR9**
10	10 mm to 19 mm	(10) 6-Point	Rail	Proto	**5F416**
SAE					
7	⅜ in to ¾ in	(7) 6-Point	Rail	Proto	**1AC83**
7	⅜ in to ¾ in	(7) 12-Point	Rail	Proto	**1AC81**

SAE Insulated Socket Set 26X324

Metric Set with Drive Tools 32H733

Insulated Socket Sets

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Container Type	Brand	Item No.
SAE & Metric Insulated Socket Sets						
⅜ in	16	5/16 in to ¾ in, 8 mm to 19 mm	(16) 12-Point	Plastic Case	Wiha Tools	**26X322**
SAE Insulated Socket Sets						
⅜ in	10	5/16 in to ¾ in	(12) 12-Point	Plastic Case	Wiha Tools	**26X324**

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Drive Tools Included	Container Type	Brand	Item No.
Metric Insulated Socket Sets with Drive Tools							
½ in	12	8 mm to 19 mm	(9) 12-Point	10 5/16 in Round Head Ratchet	None	Facom	**32H728**
½ in	12	⅜ in to ⅞ in, 8 mm to 20 mm	(10) 12-Point	9 21/32 in Round Head Ratchet	Plastic Case	Jameson/Itl	**19MV24**
½ in	14	8 mm to 24 mm	(11) 12-Point	10 in Insulated Pear Head Ratchet	Plastic Case	Wiha Tools	**450G68**
½ in	19	⅜ in to 1 in, 8 mm to 25 mm	(16) 12-Point	9 21/32 Round Head Ratchet	Plastic Case	Jameson/Itl	**19MV23**
¼ in	11	5 mm to 14 mm	(11) 6-Point	T-Handle: ¼ in Drive	Plastic Case	Wiha Tools	**26X318**
¼ in	11	3/16 in to 9/16 in	(11) 6-Point	T-Handle: ¼ in Drive	Plastic Case	Wiha Tools	**26X317**
¼ in	13	5 to 14 mm	(10) 6-Point	5 ½ in Round Head Ratchet	Plastic Case	Wiha Tools	**26X316**
¼ in	13	3/16 in to 9/16 in	(10) 6-Point	5 ½ in Round Head Ratchet	Plastic Case	Wiha Tools	**26X315**
⅜ in	9	8 mm to 14 mm	(6) 12-Point	7 ½ in Round Head Ratchet	None	Facom	**32H733**
⅜ in	10	8 mm to 19 mm	(10) 6-Point	Drive Extension: ⅜ in Drive, T-Handle: ⅜ in Drive	Plastic Case	Wiha Tools	**26X323**
⅜ in	10	8 mm to 19 mm	(8) 12-Point	8 ¾ in Round Head Ratchet	Plastic Case	Wiha Tools	**26X321**
⅜ in	16	8 mm to 20 mm	(13) 12-Point	10 29/32 in Round Head	Plastic Case	Wiha Tools	**450G67**
⅜ in	17	8 mm to 19 mm	(9) 12-Point	7 ½ in Round Head Ratchet	None	Facom	**32H732**
SAE Insulated Socket Sets with Drive Tools							
½ in	14	⅜ in to 1 in	(11) 12-Point	10in Round Head Ratchet	Plastic Case	Wiha Tools	**450G69**
⅜ in	10	5/16 in to ¾ in	(8) 12-Point	Insulated Round Head Ratchet	Plastic Case	Wiha Tools	**26X320**
⅜ in	16	¼ in to ⅞ in	(13) 12-Point	10 29/32 in Flex Head Ratchet	Plastic Case	Wiha Tools	**450G66**

1TEC6

Nonsparking Socket Sets

- Plastic case

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Drive Tools Included	Item No.
Metric Nonsparking Socket Sets with Drive Tools					
¼ in	15	4 mm to 14 mm	(13) 6-Point	5 in Pear Head Ratchet	**21XV92**
½ in	26	10 mm to 32 mm	(22) 6-Point	10 in Pear Head Ratchet	**1TEC6**
¾ in	11	36 mm to 60 mm	(7) 6-Point	18 in Pear Head Ratchet	**4RPK1**
SAE Nonsparking Socket Sets with Drive Tools					
¼ in	12	3/16 in to 9/16 in	(10) 6-Point	5 in Pear Head Ratchet	**21XV93**
½ in	9	½ in to 1 ¼ in	(5) 6-Point	10 in Pear Head Ratchet	**4DC12**
½ in	21	5/16 in to 1 ¼ in	(17) 6-Point	10 in Pear Head Ratchet	**1TEB6**
¾ in	15	1 5/16 in to 2 in	(11) 6-Point	¾ in Ratchet	**4RPJ9**

WORK HARD. SWEAT BLUE.

Pass-Through Socket Sets

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Drive Tools Included	Item No.
⅜ in	16	5/16 in to ⅞ in, 8 mm to 22 mm	(13) 12-Point	8 in Round Head Quick Release Ratchet	**38UU83**

SAE Pipe Plug Socket Sets

- Chrome finish

Drive Size	No. of Pieces	Socket Size Range	Standard Socket Count/Style	Item No.
⅜ in	11	¼ in to ⅜ in	(11) Square	**42W711**

For more information on Sockets, see page 757.

All Purpose SAE Sockets

SAE Socket
12A397

Male Socket
46C126

Socket Size	Finish	Tether Ready	Brand	Socket Depth – Standard – Overall Length	Socket Depth – Standard – Item No.	Socket Depth – Deep – Overall Length	Socket Depth – Deep – Item No.
¼" Drive SAE Sockets							
6-Point							
⅛"	Chrome	No	SK Tools	—	—	2 in	**12A292**
¼"	Chrome	No	Proto	—	—	2 in	**429M29**
5⁄16"	Chrome	No	SK Tools	⅞ in	**13N790**	1 ¼ in	**34NL28**
5⁄16"	Chrome	Yes	Westward	—	—	2 in	**53YR24**
11⁄32"	Chrome	No	Proto	⅞ in	**429M54**	—	—
⅜"	Chrome	No	Proto	⅞ in	**429M62**	—	—
7⁄16"	Chrome	No	Proto	—	—	2 in	**429M76**
7⁄16"	Chrome	No	SK Tools	—	—	2 in	**12A302**
7⁄16"	Chrome	Yes	Westward	1 in	**53YP82**	—	—
9⁄16"	Chrome	No	Proto	—	—	2 in	**429M90**
9⁄16"	Chrome	No	SK Tools	—	—	2 in	**12A304**
12-Point							
¼"	Chrome	No	Proto	—	—	2 in	**429M31**
5⁄16"	Chrome	No	Proto	—	—	2 in	**429M48**
½"	Chrome	No	Proto	⅞ in	**429M88**	—	—
⅜" Drive SAE Sockets							
4-Point							
¼"	Chrome	No	SK Tools	1 in	**46C134**	—	—
⅜"	Chrome	No	SK Tools	1 in	**46C138**	—	—
6-Point							
5⁄32"	Chrome	No	SK Tools	1 49⁄64 in	**12A253**	—	—
3⁄16"	Chrome	No	SK Tools	1 49⁄64 in	**12A254**	—	—
7⁄16"	Chrome	No	SK Tools	1 in	**12A397**	1 49⁄64 in	**13N753**
7⁄16"	Chrome	No	Proto	—	—	⅛ in	**429N31**
7⁄16"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT39**
½"	Chrome	No	SK Tools	1 in	**12A398**	1 49⁄64 in	**13N754**
½"	Chrome	No	Proto	—	—	⅛ in	**429N37**
½"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT40**
9⁄16"	Chrome	No	SK Tools	1 1⁄32 in	**12A399**	1 57⁄64 in	**13N755**
9⁄16"	Chrome	No	Proto	—	—	2 ⅛ in	**429N43**
9⁄16"	Chrome	No	SK Tools	—	—	2 9⁄64 in	**20K701**
9⁄16"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT41**
¾"	Chrome	No	SK Tools	1 ⅛ in	**12A391**	2 ½ in	**13N758**
¾"	Chrome	No	Proto	—	—	2 ¾ in	**429N60**
15⁄16"	Chrome	No	SK Tools	—	—	2 ½ in	**20K677**
15⁄16"	Chrome	No	Proto	—	—	2 ¾ in	**429N69**
12-Point							
⅜"	Chrome	No	Proto	1 3⁄32 in	**429N90**	2 ⅛ in	**429N24**
7⁄16"	Chrome	No	Proto	1 3⁄32 in	**429N96**	2 ⅛ in	**429N30**
7⁄16"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT74**
½"	Chrome	No	Proto	1 ⅛ in	**429P03**	2 ⅛ in	**429N36**
½"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT75**
9⁄16"	Chrome	No	Proto	1 ⅛ in	**429P09**	2 ⅛ in	**429N42**
9⁄16"	Chrome	No	Proto	1 47⁄64 in	**483H90**	—	—
9⁄16"	Chrome	Yes	Westward	1 in	**53YT06**	2 ½ in	**53YT76**
11⁄16"	Chrome	No	Proto	—	—	2 ¾ in	**429N54**
¾"	Chrome	No	Proto	1 3⁄16 in	**429P27**	2 ¾ in	**429N59**
15⁄16"	Chrome	No	Proto	1 5⁄16 in	**429P37**	2 ¾ in	**429N68**
15⁄16"	Chrome	Yes	Westward	—	—	2 ½ in	**53YT82**
⅜" Drive SAE Impact Sockets							
12-Point							
9⁄16"	Black Oxide	No	Proto	—	—	2 ⅛ in	**1AK44**
⅜" Drive SAE Male Sockets							
4-Point							
3⁄16"	Chrome	No	SK Tools	1 3⁄64 in	**46C139**	—	—
¼"	Chrome	No	SK Tools	1 ⅛ in	**46C140**	—	—
9⁄32"	Chrome	No	SK Tools	1 ⅛ in	**46C141**	—	—
5⁄16"	Chrome	No	SK Tools	1 ⅛ in	**46C142**	—	—
11⁄32"	Chrome	No	SK Tools	1 ⅛ in	**46C143**	—	—
⅜"	Chrome	No	SK Tools	1 ⅛ in	**46C144**	—	—
½" Drive SAE Sockets							
6-Point							
⅜"	Chrome	No	SK Tools	—	—	3 ¼ in	**20K358**
½"	Chrome	No	SK Tools	—	—	3 ¼ in	**12A285**
9⁄16"	Chrome	No	SK Tools	1 31⁄64 in	**13N714**	3 ¼ in	**12A286**
⅝"	Chrome	No	SK Tools	—	—	3 ¼ in	**12A287**
¾"	Chrome	No	SK Tools	1 ½ in	**13N817**	3 ¼ in	**12A288**
¾"	Chrome	Yes	Westward	1 ½ in	**53YU11**	3 in	**1NTZ9**
⅞"	Chrome	No	SK Tools	—	—	3 ¼ in	**12A290**
15⁄16"	Chrome	No	SK Tools	1 ⅝ in	**13N820**	3 ¼ in	**12A291**
15⁄16"	Chrome	Yes	Westward	—	—	3 in	**53YU92**
15⁄16"	Zinc Plated	No	Wheeler-Rex	—	—	6 ¼ in	**38L107**
1 1⁄16"	Chrome	No	Proto	—	—	3 ¼ in	**1FX26**
1 1⁄16"	Chrome	No	SK Tools	1 23⁄32 in	**12A250**	3 ¼ in	**20K517**
1 1⁄16"	Zinc Plated	No	Wheeler-Rex	—	—	6 ¼ in	**38L108**
1 ⅛"	Chrome	No	Proto	1 ¾ in	**429R82**	—	—
1 ⅛"	Chrome	No	SK Tools	1 23⁄32 in	**12A251**	3 ¼ in	**20K520**
1 ⅛"	Chrome	Yes	Westward	—	—	3 in	**53YU95**
1 ¼"	Chrome	No	SK Tools	1 23⁄32 in	**20K557**	3 ¼ in	**20K519**
1 ¼"	Zinc Plated	No	Wheeler-Rex	—	—	6 ½ in	**38L109**
1 5⁄16"	Chrome	No	Proto	—	—	3 ½ in	**6RCP2**
1 5⁄16"	Chrome	No	SK Tools	2 1⁄16 in	**20K560**	—	—
1 ⅜"	Chrome	No	SK Tools	2 ⅛ in	**20K559**	—	—
1 7⁄16"	Chrome	No	Proto	—	—	3 ½ in	**6RCP4**
1 7⁄16"	Chrome	No	SK Tools	—	—	3 ¼ in	**20K524**
1 ½"	Chrome	No	SK Tools	2 5⁄16 in	**20K556**	—	—
1 ½"	Chrome	No	Proto	2 ¼ in	**429R96**	3 ½ in	**1FX09**
8-Point							
9⁄16"	Chrome	No	Proto	1 ½ in	**1AN71**	—	—
⅝"	Chrome	No	Proto	1 ½ in	**1AN72**	—	—
⅞"	Chrome	No	Proto	1 ⅝ in	**1AN76**	—	—
12-Point							
7⁄16"	Chrome	No	Proto	1 31⁄64 in	**429R20**	—	—
⅝"	Chrome	No	Proto	1 ½ in	**429R38**	—	—
¾"	Chrome	No	Proto	1 ½ in	**429R50**	3 ¼ in	**429P79**
¾"	Chrome	Yes	Westward	1 ½ in	**53YU50**	3 in	**53YV29**
13⁄16"	Chrome	No	Proto	1 ½ in	**429R56**	—	—
⅞"	Chrome	No	Proto	—	—	3 ¼ in	**429P87**
15⁄16"	Chrome	No	Proto	9⁄16 in	**429R68**	3 ¼ in	**429P91**
15⁄16"	Chrome	Yes	Westward	1 ½ in	**53YU53**	3 in	**53YV32**
1 1⁄16"	Chrome	No	Proto	—	—	3 ¼ in	**429P98**
1 1⁄16"	Chrome	No	SK Tools	—	—	3 ¼ in	**20K491**
1 ⅛"	Chrome	No	Proto	1 ¾ in	**429R81**	3 ¼ in	**429P99**
1 ⅛"	Chrome	Yes	Westward	1 ½ in	**53YU56**	3 in	**53YV35**
1 ¼"	Chrome	No	Proto	1 ¾ in	**429R87**	3 ¼ in	**429R04**
1 ¼"	Chrome	No	SK Tools	—	—	3 ¼ in	**20K493**
1 ¼"	Chrome	Yes	Westward	—	—	3 in	**53YV37**
1 5⁄16"	Chrome	No	Proto	5⁄64 in	**429R89**	—	—
1 7⁄16"	Chrome	No	Proto	2 ⅛ in	**429R93**	3 ½ in	**429R08**
1 ½"	Chrome	No	SK Tools	2 5⁄16 in	**20K047**	—	—
1 ½"	Chrome	No	Proto	2 ¼ in	**429R95**	3 ½ in	**429R09**
½" Drive SAE Impact Sockets							
12-Point							
15⁄16"	Black Oxide	No	Proto	—	—	3 ¼ in	**1AN30**
½" Drive SAE Sockets							
Spline							
¾"	Chrome	No	Proto	1 9⁄16 in	**5ME64**	—	—
½" Drive SAE Male Sockets							
4-Point							
¼"	Chrome	No	SK Tools	1 ⅜ in	**46C126**	—	—
⅜"	Chrome	No	SK Tools	1 ⅜ in	**46C129**	—	—
7⁄16"	Chrome	No	SK Tools	1 ⅜ in	**46C130**	—	—
⅝"	Chrome	No	SK Tools	1 ⅜ in	**46C133**	—	—
¾" Drive SAE Sockets							
6-Point							
1 ⅛"	Satin	No	Proto	—	—	3 ½ in	**1AP92**
1 ¼"	Satin	No	Proto	—	—	3 ½ in	**1AP93**
1 5⁄16"	Satin	No	Proto	—	—	3 ½ in	**1AP94**
1 7⁄16"	Satin	No	Proto	—	—	3 ½ in	**1AP96**
1 ½"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E307**
1 ½"	Satin	No	Proto	—	—	3 ½ in	**1AP97**
1 ⅝"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E309**
1 ⅝"	Satin	No	Proto	—	—	3 ½ in	**1AP98**
1 11⁄16"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E310**
1 ¾"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E311**
1 13⁄16"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E312**
1 ⅞"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E313**
2"	Chrome	Yes	Westward	—	—	3 9⁄16 in	**10E314**
12-Point							
1 ½"	Chrome	Yes	Westward	2 ⅜ in	**5MX86**	—	—
1 ½"	Satin	No	Proto	2 13⁄32 in	**429T25**	—	—
1 ⅝"	Chrome	Yes	Westward	2 ½ in	**5MX87**	—	—
1 ⅝"	Satin	No	Proto	2 ⅝ in	**429T28**	—	—
1 11⁄16"	Satin	No	Proto	2 ¾ in	**429T29**	—	—
1 ¾"	Satin	No	Proto	2 ¾ in	**429T31**	—	—
1 13⁄16"	Chrome	Yes	Westward	2 11⁄16 in	**5MX89**	—	—
1 13⁄16"	Satin	No	Proto	2 29⁄32 in	**429T32**	—	—
1 ⅞"	Chrome	Yes	Westward	2 ¾ in	**5MX90**	—	—
1 ⅞"	Satin	No	Proto	2 31⁄32 in	**429T33**	—	—
2"	Chrome	Yes	Westward	2 13⁄16 in	**5MX91**	—	—
2"	Satin	No	Proto	3 7⁄64 in	**429T35**	—	—
2 3⁄16"	Satin	No	Proto	3 9⁄32 in	**429T38**	—	—
2 ¼"	Satin	No	Proto	3 13⁄32 in	**429T39**	—	—
2 ⅜"	Satin	No	Proto	3 43⁄64 in	**429T40**	—	—
2 ½"	Chrome	Yes	Westward	3 15⁄64 in	**45J211**	—	—
1" Drive SAE Sockets							
12-Point							
1 ⅝"	Satin	No	Proto	3 ¼ in	**1AR38**	—	—
2 3⁄16"	Satin	No	Proto	3 ¾ in	**1AR46**	—	—
2 ⅜"	Satin	No	Proto	4 in	**1AR48**	—	—
2 ½"	Satin	No	Proto	4 ⅛ in	**1AR49**	—	—
2 9⁄16"	Chrome	Yes	Westward	3 ½ in	**45J234**	—	—
2 ⅝"	Chrome	Yes	Westward	3 ½ in	**45J235**	—	—
2 ¾"	Chrome	Yes	Westward	3 43⁄64 in	**45J236**	—	—
2 ¾"	Satin	No	Proto	4 7⁄16 in	**1AR52**	—	—
3"	Chrome	Yes	Westward	4 in	**45J238**	—	—
3"	Satin	No	Proto	4 11⁄16 in	**1AR54**	—	—
3 ⅛"	Chrome	Yes	Westward	4 5⁄32 in	**45J239**	—	—
3 ⅛"	Satin	No	Proto	4 15⁄16 in	**1AR55**	—	—

For more information on Sockets, see page 757.

53YR80

SK® PROTO® WESTWARD®

All Purpose Metric Sockets

				Socket Depth			
				Standard		Deep	
Socket Size	Finish	Tether Ready	Brand	Overall Length	Item No.	Overall Length	Item No.
¼" Drive Metric Sockets							
6-Point							
5.5-mm	Chrome	Yes	Westward	1 in	**53YP88**	—	—
6-mm	Chrome	Yes	Westward	1 in	**53YP89**	—	—
7-mm	Chrome	Yes	Westward	1 in	**53YP90**	—	—
7-mm	Chrome	No	SK Tools	7/8 in	**13N766**	2 in	**12A276**
8-mm	Chrome	Yes	Westward	1 in	**53YP91**	2 in	**53YR36**
8-mm	Chrome	No	SK Tools	7/8 in	**13N767**	2 in	**12A277**
8-mm	Chrome	No	Proto	7/8 in	**429M33**	1 63/64 in	**429M30**
9-mm	Chrome	Yes	Westward	—	—	2 in	**53YR37**
10-mm	Chrome	No	SK Tools	7/8 in	**13N769**	2 in	**12A279**
10-mm	Chrome	No	Proto	7/8 in	**429M50**	1 63/64 in	**429M47**
10-mm	Chrome	Yes	Westward	1 in	**53YP93**	2 in	**53YR38**
11-mm	Chrome	Yes	Westward	—	—	2 in	**53YR39**
13-mm	Chrome	No	SK Tools	7/8 in	**13N772**	2 in	**12A282**
12-Point							
7-mm	Chrome	Yes	Westward	1 in	**53YR13**	—	—
8-mm	Chrome	Yes	Westward	1 in	**53YR14**	2 in	**53YR58**
10-mm	Chrome	Yes	Westward	1 in	**53YR16**	2 in	**53YR60**
10-mm	Chrome	No	Proto	7/8 in	**429M53**	—	—
12-mm	Chrome	Yes	Westward	—	—	2 in	**53YR62**
13-mm	Chrome	No	Proto	7/8 in	**429M74**	—	—
⅜" Drive Metric Sockets							
6-Point							
4-mm	Chrome	No	SK Tools	1 49/64 in	**12A262**	—	—
5-mm	Chrome	No	SK Tools	1 49/64 in	**12A263**	—	—
7-mm	Chrome	No	Proto	27.8-mm	**429N74**	—	—
7-mm	Chrome	Yes	Westward	1 in	**53YR79**	—	—
8-mm	Chrome	Yes	Westward	1 in	**53YR80**	—	—
8-mm	Chrome	No	SK Tools	1 1/64 in	**12P866**	—	—
10-mm	Chrome	No	SK Tools	1 3/64 in	**12P868**	1 3/4 in	**13N573**
10-mm	Chrome	Yes	Westward	1 in	**53YR82**	2 1/2 in	**53YT53**
10-mm	Chrome	No	Proto	27.8-mm	**429N85**	—	—
11-mm	Chrome	Yes	Westward	1 in	**53YR83**	—	—
12-mm	Chrome	No	Proto	28.6-mm	**429N93**	—	—
12-mm	Chrome	Yes	Westward	1 in	**53YR84**	2 1/2 in	**53YT55**
12-mm	Chrome	No	SK Tools	1 5/64 in	**12P870**	1 3/4 in	**13N575**
12-mm	Chrome	No	Proto	—	—	2 1/8 in	**429N27**
13-mm	Chrome	No	SK Tools	1 5/64 in	**12P871**	1 3/4 in	**13N576**
13-mm	Chrome	Yes	Westward	1 in	**53YR85**	2 1/2 in	**53YT56**
13-mm	Chrome	No	Proto	28.6-mm	**429N95**	2 1/8 in	**429N29**
14-mm	Chrome	Yes	Westward	1 in	**53YR86**	—	—
14-mm	Chrome	No	Proto	28.6-mm	**429N99**	—	—
14-mm	Chrome	No	SK Tools	1 7/64 in	**12P872**	1 55/64 in	**13N577**
15-mm	Chrome	Yes	Westward	1 in	**53YR87**	—	—
15-mm	Chrome	No	SK Tools	1 7/64 in	**12P873**	1 55/64 in	**13N578**
15-mm	Chrome	No	Proto	28.6-mm	**429P02**	—	—
16-mm	Chrome	Yes	Westward	1 in	**53YR88**	—	—
17-mm	Chrome	No	SK Tools	1 9/64 in	**12P875**	2 1/2 in	**13N580**
17-mm	Chrome	Yes	Westward	1 in	**53YR89**	—	—
17-mm	Chrome	Yes	Westward	—	—	2 1/2 in	**53YT60**
17-mm	Chrome	No	Proto	—	—	2 3/4 in	**429N41**
18-mm	Chrome	Yes	Westward	1 in	**53YR90**	—	—
18-mm	Chrome	No	SK Tools	—	—	2 1/2 in	**13N581**
19-mm	Chrome	Yes	Westward	1 in	**53YR91**	—	—
19-mm	Chrome	No	SK Tools	1 3/16 in	**12P876**	2 1/2 in	**13N582**
19-mm	Chrome	No	Proto	—	—	2 3/4 in	**429N47**
20-mm	Chrome	No	SK Tools	—	—	2 1/2 in	**20K678**
12-Point							
8-mm	Chrome	No	Proto	1 3/32 in	**429N77**	—	—
8-mm	Chrome	No	Proto	—	—	2 1/8 in	**429N13**
8-mm	Chrome	Yes	Westward	—	—	2 1/2 in	**53YT86**
10-mm	Chrome	No	Proto	1 3/32 in	**429N84**	2 1/8 in	**429N19**
10-mm	Chrome	Yes	Westward	1 in	**53YT18**	2 1/2 in	**53YT88**
10-mm	Chrome	No	Proto	1 33/64 in	**483H76**	—	—
10-mm	Chrome	No	SK Tools	1 3/64 in	**12P885**	1 3/4 in	**13N583**
11-mm	Chrome	No	Proto	1 33/64 in	**483H78**	—	—
13-mm	Chrome	No	Proto	1 1/8 in	**429N94**	—	—
13-mm	Chrome	Yes	Westward	1 in	**53YT21**	2 1/2 in	**53YT91**
13-mm	Chrome	No	Proto	1 25/32 in	**483H82**	—	—
13-mm	Chrome	No	SK Tools	1 5/64 in	**20K801**	—	—
13-mm	Chrome	No	Proto	—	—	2 1/8 in	**429N28**
14-mm	Chrome	No	SK Tools	—	—	1 55/64 in	**13N587**
15-mm	Chrome	Yes	Westward	1 in	**53YT23**	2 1/2 in	**53YT93**
15-mm	Chrome	No	Proto	—	—	2 3/4 in	**429N34**
17-mm	Chrome	No	Proto	1 1/8 in	**429P07**	2 3/4 in	**429N40**
17-mm	Chrome	Yes	Westward	1 in	**53YT25**	2 1/2 in	**53YT95**
17-mm	Chrome	No	SK Tools	—	—	2 1/2 in	**13N590**
19-mm	Chrome	Yes	Westward	—	—	2 1/2 in	**53YT97**
19-mm	Chrome	No	Proto	—	—	2 3/4 in	**429N46**

				Socket Depth			
				Standard		Deep	
Socket Size	Finish	Tether Ready	Brand	Overall Length	Item No.	Overall Length	Item No.
½" Drive Metric Sockets							
6-Point							
13-mm	Chrome	No	SK Tools	—	—	3 1/4 in	**13N706**
17-mm	Chrome	No	SK Tools	1 31/64 in	**12C438**	3 1/4 in	**13N710**
19-mm	Chrome	No	SK Tools	1 1/2 in	**12C440**	—	—
19-mm	Chrome	Yes	Westward	1 1/2 in	**5MT42**	—	—
19-mm	Chrome	Yes	Westward	—	—	3 in	**53YV10**
21-mm	Chrome	No	SK Tools	—	—	3 1/4 in	**20K037**
22-mm	Chrome	No	Proto	1 17/32 in	**429R47**	—	—
22-mm	Chrome	Yes	Westward	1 1/2 in	**53YU34**	—	—
22-mm	Chrome	No	SK Tools	—	—	3 1/4 in	**20K038**
24-mm	Chrome	No	SK Tools	1 5/8 in	**12C445**	3 1/4 in	**20K040**
24-mm	Chrome	Yes	Westward	1 1/2 in	**53YU36**	—	—
24-mm	Chrome	No	Proto	1 17/32 in	**429R53**	—	—
24-mm	Chrome	Yes	Westward	—	—	3 in	**53YV15**
27-mm	Chrome	No	SK Tools	1 23/32 in	**20K564**	3 1/4 in	**20K043**
30-mm	Chrome	No	SK Tools	1 23/32 in	**20K567**	3 1/4 in	**20K045**
30-mm	Chrome	Yes	Westward	1 1/2 in	**53YU42**	3 in	**53YV21**
30-mm	Chrome	No	Proto	1 25/32 in	**429R71**	—	—
32-mm	Chrome	No	SK Tools	1 23/32 in	**20K568**	—	—
34-mm	Chrome	No	Proto	1 27/32 in	**429R80**	—	—
36-mm	Chrome	No	Proto	2 15/64 in	**429R84**	—	—
36-mm	Chrome	No	SK Tools	1 23/32 in	**20K569**	—	—
12-Point							
10-mm	Chrome	No	Proto	1 31/64 in	**429R10**	—	—
13-mm	Chrome	No	Proto	1 31/64 in	**429R18**	—	—
13-mm	Chrome	No	Proto	—	—	3 1/4 in	**429P58**
17-mm	Chrome	No	Proto	1 1/2 in	**429R30**	—	—
18-mm	Chrome	No	Proto	1 1/2 in	**429R34**	3 1/4 in	**429P69**
19-mm	Chrome	No	Proto	1 1/2 in	**429R36**	3 1/4 in	**429P70**
19-mm	Chrome	Yes	Westward	1 1/2 in	**53YU70**	—	—
21-mm	Chrome	No	Proto	1 1/2 in	**429R42**	3 1/4 in	**429P74**
22-mm	Chrome	No	Proto	—	—	3 1/4 in	**429P77**
24-mm	Chrome	No	Proto	1 17/32 in	**429R52**	3 1/4 in	**429P81**
24-mm	Chrome	Yes	Westward	1 1/2 in	**53YU75**	—	—
24-mm	Chrome	No	SK Tools	1 5/8 in	**13N751**	—	—
24-mm	Chrome	Yes	Westward	—	—	3 in	**53YV54**
27-mm	Chrome	No	Proto	1 43/64 in	**429R60**	—	—
30-mm	Chrome	Yes	Westward	1 1/2 in	**53YU81**	—	—
30-mm	Chrome	Yes	Proto	—	—	3 1/4 in	**49XG10**
30-mm	Chrome	No	Proto	1 25/32 in	**429R70**	3 1/4 in	**429P93**
32-mm	Chrome	No	Proto	—	—	3 1/4 in	**429P97**
34-mm	Chrome	No	Proto	1 27/32 in	**19C426**	—	—
36-mm	Chrome	Yes	Proto	2 15/64 in	**24AH99**	—	—
36-mm	Chrome	No	Proto	2 15/64 in	**429R83**	3 1/4 in	**6RCT2**
36-mm	Chrome	No	SK Tools	1 23/32 in	**20K554**	—	—
38-mm	Chrome	No	Proto	2 1/4 in	**6RCR6**	—	—
¾" Drive Metric Sockets							
6-Point							
22-mm	Chrome	Yes	Westward	2 in	**10E318**	—	—
24-mm	Chrome	Yes	Westward	2 in	**10E320**	3 9/16 in	**10E342**
27-mm	Chrome	Yes	Westward	—	—	3 9/16 in	**10E344**
30-mm	Chrome	Yes	Westward	2 1/8 in	**10E325**	3 9/16 in	**10E347**
32-mm	Chrome	Yes	Westward	2 1/4 in	**10E326**	3 9/16 in	**10E348**
35-mm	Chrome	Yes	Westward	—	—	3 9/16 in	**10E349**
36-mm	Chrome	Yes	Westward	2 5/16 in	**10E328**	3 9/16 in	**10E350**
38-mm	Chrome	Yes	Westward	—	—	3 9/16 in	**10E351**
41-mm	Chrome	Yes	Westward	2 1/2 in	**10E330**	3 9/16 in	**10E352**
42-mm	Chrome	Yes	Westward	2 1/2 in	**10E331**	3 9/16 in	**10E353**
46-mm	Chrome	Yes	Westward	2 5/8 in	**10E332**	3 9/16 in	**10E354**
50-mm	Chrome	Yes	Westward	2 3/4 in	**10E333**	3 9/16 in	**10E355**
55-mm	Chrome	Yes	Westward	3 in	**10E335**	3 9/16 in	**10E357**
60-mm	Chrome	Yes	Westward	3 1/16 in	**10E337**	3 9/16 in	**10E358**
12-Point							
24-mm	Chrome	Yes	Westward	2 1/16 in	**5MX47**	—	—
27-mm	Chrome	Yes	Westward	2 1/16 in	**5MX49**	—	—
30-mm	Chrome	Yes	Westward	2 1/8 in	**5MX51**	—	—
36-mm	Chrome	Yes	Westward	2 1/4 in	**5MX54**	—	—
36-mm	Satin	No	Proto	2 13/32 in	**429T17**	—	—
41-mm	Chrome	Yes	Westward	2 1/2 in	**5MX56**	—	—
41-mm	Satin	No	Proto	2 39/64 in	**429T20**	—	—
46-mm	Chrome	Yes	Westward	2 43/64 in	**5MX57**	—	—
46-mm	Satin	No	Proto	2 31/32 in	**429T24**	—	—
50-mm	Chrome	Yes	Westward	2 13/16 in	**5MX58**	—	—
54-mm	Chrome	No	Proto	3 9/32 in	**1AP84**	—	—
55-mm	Chrome	Yes	Westward	76-mm	**20HW72**	—	—
55-mm	Satin	No	Proto	3 9/32 in	**429T30**	—	—
60-mm	Satin	No	Proto	3 21/32 in	**429T34**	—	—
1" Drive Metric Sockets							
12-Point							
36-mm	Chrome	Yes	Westward	2 9/16 in	**45J241**	—	—
46-mm	Chrome	Yes	Westward	3 in	**45J244**	—	—
46-mm	Satin	No	Proto	2 7/8 in	**19C401**	—	—
50-mm	Satin	No	Proto	3 in	**19C402**	—	—
55-mm	Chrome	Yes	Westward	3 5/32 in	**45J247**	—	—
55-mm	Satin	No	Proto	3 1/4 in	**19C404**	—	—
60-mm	Chrome	Yes	Westward	3 11/32 in	**45J249**	—	—
63-mm	Satin	No	Proto	3 7/16 in	**19C407**	—	—
65-mm	Chrome	Yes	Westward	3 7/16 in	**45J251**	—	—
65-mm	Satin	No	Proto	3 1/2 in	**19C408**	—	—
67-mm	Chrome	Yes	Westward	3 1/2 in	**45J252**	—	—
70-mm	Chrome	Yes	Westward	3 43/64 in	**45J253**	—	—
75-mm	Chrome	Yes	Westward	3 27/32 in	**45J255**	—	—
77-mm	Chrome	Yes	Westward	4 in	**45J256**	—	—
80-mm	Chrome	Yes	Westward	4 in	**45J257**	—	—

For more information on Sockets, see page 757.

SK® WESTWARD®

All Purpose Torx Sockets

- Chrome finish
- 6-Points
- Standard socket depth

¼" Drive
20HX20

Socket Size	Overall Length	Tether Ready	Brand	Item No.
¼ in Drive				
E4	1 in	No	Westward	**20HX20**
E4	1 ⅞ in	Yes	Westward	**54TN26**
E4	25⁄32 in	No	SK Tools	**46C145**
E5	1 in	No	Westward	**20HX21**
E5	1 15⁄16 in	Yes	Westward	**54TN27**
E5	63⁄64 in	No	SK Tools	**46C146**
E6	1 in	No	Westward	**20HX22**
E6	1 13⁄16 in	Yes	Westward	**54TN28**
E6	31⁄32 in	No	SK Tools	**46C147**
E7	1 in	No	Westward	**20HX23**
E7	1 7⁄32 in	Yes	Westward	**54TN29**
E7	31⁄32 in	No	SK Tools	**46C148**
E8	1 in	No	Westward	**20HX24**
E8	1 7⁄32 in	Yes	Westward	**54TN30**
E8	31⁄32 in	No	SK Tools	**46C149**
E10	1 7⁄32 in	Yes	Westward	**54TN31**
⅜ in Drive				
E4	1 ¼ in	No	Westward	**20HX26**
E5	1 ¼ in	No	Westward	**20HX27**
E6	1 ¼ in	No	Westward	**20HX28**
E7	1 ¼ in	No	Westward	**20HX29**
E10	1 7⁄32 in	No	SK Tools	**46C150**
E10	1 ¼ in	No	Westward	**20HX31**
E10	1 ¼ in	Yes	Westward	**54TN43**
E11	1 ¼ in	No	Westward	**20HX32**
E12	1 7⁄32 in	No	SK Tools	**46C151**
E12	1 ¼ in	Yes	Westward	**54TN44**
E14	1 7⁄32 in	No	SK Tools	**46C152**
E14	1 ¼ in	Yes	Westward	**54TN45**
E14	1 ¼ in	No	Westward	**20HX34**
E16	1 7⁄32 in	No	SK Tools	**46C153**
E16	1 ¼ in	Yes	Westward	**54TN46**
E16	1 ¼ in	No	Westward	**20HX35**
½ in Drive				
E10	1 9⁄16 in	No	Westward	**20HX37**
E11	1 9⁄16 in	No	Westward	**20HX38**
E14	1 9⁄16 in	No	Westward	**20HX40**
E16	1 9⁄16 in	No	Westward	**20HX41**
E18	1 9⁄16 in	No	Westward	**20HX42**
E18	1 ½ in	No	SK Tools	**46C154**
E20	1 9⁄16 in	No	Westward	**20HX43**
E20	1 ¾ in	No	SK Tools	**46C155**
E22	2 in	No	SK Tools	**46C156**
E22	1 9⁄16 in	No	Westward	**20HX44**
E24	2 in	No	SK Tools	**46C157**
E24	2 in	No	SK Tools	**484N69**
E24	1 9⁄16 in	No	Westward	**20HX45**

¼" Drive
12C591

SK®

Bolt Extraction Sockets

Socket Size	Socket Depth	Overall Length	Finish	Tether Ready	Item No.
¼ in Drive					
6.5-mm	Standard	1 in	Chrome	No	**12C591**
7-mm	Standard	1 in	Chrome	No	**12C593**
¼"	Standard	1 in	Black Oxide	No	**12C590**
9⁄32"	Standard	1 in	Black Oxide	No	**12C594**
⅜ in Drive					
10-mm	Deep	2 ⅛ in	Black Oxide	Yes	**12P167**
7⁄16"	Standard	1 ¼ in	Black Oxide	No	**12P154**
9⁄16"	Deep	2 ⅜ in	Chrome	No	**12P175**
½ in Drive					
⅞"	Standard	1 ⅝ in	Chrome	No	**12P182**

SK® PROTO® WESTWARD®

¼" Drive Size
429M94

Flex Sockets

- Chrome finish
- Standard socket depth

Socket Size	Overall Length	Tether Ready	Brand	Item No.
¼ in Drive Size				
6-Point				
¼ in	1¼ in	No	Proto	**429M95**
5⁄16 in	1¼ in	No	Proto	**429M97**
⅜ in	1¼ in	No	Proto	**429M99**
7⁄16 in	1¼ in	No	Proto	**429N02**
10-mm	1¼ in	No	Proto	**19C429**
11-mm	1¼ in	No	Proto	**19C431**
12-mm	1¼ in	No	Proto	**19C432**
13-mm	1¼ in	No	Proto	**19C433**
14-mm	121⁄64 in	No	Proto	**19C434**
15-mm	121⁄64 in	No	Proto	**19C436**
5.5-mm	1¼ in	No	Proto	**19C439**
5-mm	1¼ in	No	Proto	**19C440**
6-mm	1¼ in	No	Proto	**19C441**
7-mm	1¼ in	No	Proto	**19C444**
8-mm	1¼ in	No	Proto	**19C445**
9-mm	1¼ in	No	Proto	**19C448**
12-Point				
7⁄32 in	1¼ in	No	Proto	**429M94**
7⁄32 in	117⁄64 in	No	Proto	**483H18**
¼ in	1¼ in	No	Proto	**429M96**
9⁄32 in	1¼ in	No	Proto	**429N06**
9⁄32 in	137⁄64 in	No	Proto	**483H25**
5⁄16 in	1¼ in	No	Proto	**429M98**
5⁄16 in	125⁄64 in	No	Proto	**483H20**
11⁄32 in	1¼ in	No	Proto	**429N07**
11⁄32 in	137⁄64 in	No	Proto	**483H26**
⅜ in	1¼ in	No	Proto	**429N01**
⅜ in	125⁄64 in	No	Proto	**483H21**
7⁄16 in	1¼ in	No	Proto	**429N03**
7⁄16 in	129⁄64 in	No	Proto	**483H22**
½ in	1¼ in	No	Proto	**429N04**
½ in	129⁄64 in	No	Proto	**483H23**
9⁄16 in	121⁄64 in	No	Proto	**429N05**
11-mm	129⁄64 in	No	Proto	**483H34**
12-mm	137⁄64 in	No	Proto	**483H35**
13-mm	137⁄64 in	No	Proto	**483H36**
14-mm	137⁄64 in	No	Proto	**483H37**
5.5-mm	19⁄32 in	No	Proto	**483H27**
5-mm	19⁄32 in	No	Proto	**483H28**
6-mm	19⁄32 in	No	Proto	**483H29**
7-mm	1⅜ in	No	Proto	**483H30**
8-mm	1⅜ in	No	Proto	**483H31**
9-mm	1⅜ in	No	Proto	**483H32**
⅜ in Drive Size				
6-Point				
⅜ in	1¾ in	No	Proto	**4TDG2**
7⁄16 in	125⁄32 in	No	Proto	**4TDG3**
½ in	125⁄32 in	No	Proto	**4TDG4**
½ in	2⅜ in	No	Proto	**19C469**
9⁄16 in	1⅞ in	No	Proto	**4TDG5**
9⁄16 in	2⅜ in	No	Proto	**19C501**
9⁄16 in	3 in	No	SK Tools	**20K798**
⅝ in	1⅞ in	No	Proto	**4TDG6**
⅝ in	2⅜ in	No	Proto	**19C495**
⅝ in	319⁄64 in	No	Proto	**1AK03**
⅝ in	319⁄64 in	No	SK Tools	**20K797**
11⁄16 in	131⁄32 in	No	Proto	**4TDG7**
¾ in	2 in	No	Proto	**4TDG8**
13⁄16 in	23⁄32 in	Yes	Westward	**10E886**
13⁄16 in	3⅜ in	No	SK Tools	**20K796**
13⁄16 in	3⅜ in	No	Proto	**19C478**
⅞ in	23⁄32 in	Yes	Westward	**10E887**
15⁄16 in	23⁄16 in	Yes	Westward	**10E888**
10-mm	1¾ in	No	Proto	**19C472**
11-mm	1¾ in	No	Proto	**19C474**
11-mm	113⁄16 in	Yes	Westward	**1EZZ8**
12-mm	1¾ in	No	Proto	**19C476**
13-mm	1¾ in	No	Proto	**19C480**
14-mm	1⅞ in	No	Proto	**19C482**
15-mm	1⅞ in	No	Proto	**19C485**
16-mm	157⁄64 in	No	Proto	**19C487**
17-mm	157⁄64 in	No	Proto	**19C489**
18-mm	157⁄64 in	No	Proto	**19C491**

Socket Size	Overall Length	Tether Ready	Brand	Item No.
⅜ in Drive Size (Cont.)				
6-Point (Cont.)				
19-mm	159⁄64 in	No	Proto	**19C493**
1 in	27⁄32 in	Yes	Westward	**10E889**
20-mm	23⁄32 in	Yes	Westward	**10E908**
21-mm	23⁄32 in	Yes	Westward	**10E909**
22-mm	23⁄32 in	Yes	Westward	**10E910**
7-mm	149⁄64 in	No	Proto	**19C498**
8-mm	149⁄64 in	No	Proto	**19C499**
8-mm	127⁄32 in	Yes	Westward	**10E906**
9-mm	127⁄32 in	Yes	Westward	**10E907**
12-Point				
5⁄16 in	147⁄64 in	No	Proto	**483J06**
5⁄16 in	1¾ in	No	Proto	**429P41**
⅜ in	1¾ in	No	Proto	**429P42**
⅜ in	115⁄16 in	Yes	Westward	**10E894**
⅜ in	2 in	No	Proto	**483J07**
7⁄16 in	125⁄32 in	No	Proto	**429P43**
7⁄16 in	115⁄16 in	Yes	Westward	**10E895**
7⁄16 in	2⅛ in	No	Proto	**483J09**
½ in	125⁄32 in	No	Proto	**429P44**
½ in	2 in	Yes	Westward	**10E896**
½ in	23⁄16 in	No	Proto	**483J11**
9⁄16 in	1⅞ in	No	Proto	**429P45**
9⁄16 in	2 in	Yes	Westward	**10E897**
9⁄16 in	2¼ in	No	Proto	**483J13**
⅝ in	1⅞ in	No	Proto	**429P46**
⅝ in	2 in	Yes	Westward	**10E898**
⅝ in	2¼ in	No	Proto	**483J15**
11⁄16 in	131⁄32 in	No	Proto	**429P47**
11⁄16 in	21⁄32 in	Yes	Westward	**10E899**
11⁄16 in	2¼ in	No	Proto	**483J17**
¾ in	2 in	No	Proto	**429P48**
¾ in	25⁄16 in	No	Proto	**483J19**
13⁄16 in	1⅞ in	No	Proto	**429P49**
13⁄16 in	23⁄32 in	Yes	Westward	**10E902**
13⁄16 in	2¼ in	No	Proto	**483J21**
⅞ in	161⁄64 in	No	Proto	**429P50**
⅞ in	23⁄32 in	Yes	Westward	**10E903**
⅞ in	2¼ in	No	Proto	**483J23**
15⁄16 in	161⁄64 in	No	Proto	**429P51**
15⁄16 in	23⁄32 in	Yes	Westward	**10E904**
15⁄16 in	2¼ in	No	Proto	**483J25**
10-mm	1¾ in	No	Proto	**19C471**
11-mm	1¾ in	No	Proto	**19C473**
11-mm	129⁄32 in	No	Proto	**483J10**
12-mm	1¾ in	No	Proto	**19C475**
12-mm	27⁄64 in	No	Proto	**483J12**
13-mm	1¾ in	No	Proto	**19C479**
13-mm	27⁄64 in	No	Proto	**483J14**
14-mm	1⅞ in	No	Proto	**19C481**
14-mm	27⁄64 in	No	Proto	**483J16**
15-mm	1⅞ in	No	Proto	**19C484**
15-mm	23⁄16 in	No	Proto	**483J18**
16-mm	157⁄64 in	No	Proto	**19C486**
16-mm	23⁄16 in	No	Proto	**483J20**
17-mm	157⁄64 in	No	Proto	**19C488**
17-mm	219⁄64 in	No	Proto	**483J22**
18-mm	157⁄64 in	No	Proto	**19C490**
18-mm	219⁄64 in	No	Proto	**483J24**
19-mm	159⁄64 in	No	Proto	**19C492**
19-mm	219⁄64 in	No	Proto	**483J26**
1 in	2 in	No	Proto	**429P52**
1 in	27⁄32 in	Yes	Westward	**10E905**
1 in	2¼ in	No	Proto	**483J27**
9-mm	1¾ in	No	Proto	**19C502**
½ in Drive Size				
6-Point				
21-mm	29⁄16 in	No	Proto	**19C389**
22-mm	29⁄16 in	No	Proto	**19C390**
24-mm	29⁄16 in	No	Proto	**19C391**
12-Point				
½ in	215⁄32 in	No	Proto	**4TDG9**
9⁄16 in	221⁄32 in	No	Proto	**4TDH1**
⅝ in	221⁄32 in	No	Proto	**4TDH2**

For more information on Sockets, see page 757.

Insulated Sockets

- Standard socket depth

1/4" Drive
53KF42

Socket Size	Overall Length	Brand	Item No.
1/4 in Drive Size			
6-Point			
1/4"	1 in	Wiha Tools	**53KF49**
9/32"	1 in	Wiha Tools	**53KF50**
5/16"	1 in	Wiha Tools	**53KF51**
11/32"	1 in	Wiha Tools	**53KF52**
3/8"	1 in	Wiha Tools	**53KF53**
7/16"	1 in	Wiha Tools	**53KF54**
1/2"	1 in	Wiha Tools	**53KF55**
9/16"	1 in	Wiha Tools	**53KF56**
10-mm	1 in	Wiha Tools	**53KF42**
11-mm	1 in	Wiha Tools	**53KF43**
12-mm	1 in	Wiha Tools	**53KF44**
13-mm	1 in	Wiha Tools	**53KF45**
8-mm	1 in	Wiha Tools	**53KF40**
12-Point			
10-mm	55/64 in	Facom	**32H757**
3/8 in Drive Size			
12-Point			
1/4"	1 1/8 in	Wiha Tools	**53KF57**
1/4"	1 5/8 in	Jameson/Itl	**60XN44**
9/32"	1 1/8 in	Wiha Tools	**53KF58**
5/16"	1 1/8 in	Wiha Tools	**53KF59**
11/32"	1 1/8 in	Wiha Tools	**53KF60**
3/8"	1 3/4 in	Jameson/Itl	**31CE92**
3/8"	1 1/8 in	Wiha Tools	**53KF61**
7/16"	1 1/8 in	Wiha Tools	**53KF62**
1/2"	1 1/8 in	Wiha Tools	**53KF63**
1/2"	2 in	Jameson/Itl	**31CE93**
9/16"	1 1/8 in	Wiha Tools	**53KF64**
9/16"	1 43/64 in	Jameson/Itl	**60XN45**
5/8"	1 1/8 in	Wiha Tools	**53KF65**
11/16"	1 1/8 in	Wiha Tools	**53KF66**
11/16"	1 13/16 in	Jameson/Itl	**60XN46**
3/4"	1 1/8 in	Wiha Tools	**53KF67**
13/16"	1 1/8 in	Wiha Tools	**53KF68**
7/8"	1 1/8 in	Wiha Tools	**53KF69**
10-mm	1 11/16 in	Facom	**32H762**
10-mm	1 1/8 in	Wiha Tools	**53KF74**
11-mm	1 1/8 in	Wiha Tools	**53KF75**
12-mm	1 1/8 in	Wiha Tools	**53KF76**
14-mm	1 1/8 in	Wiha Tools	**53KF78**
15-mm	1 1/8 in	Wiha Tools	**53KF79**
16-mm	1 1/8 in	Wiha Tools	**53KF80**
17-mm	1 1/8 in	Wiha Tools	**53KF81**
18-mm	1 1/8 in	Wiha Tools	**53KF82**
19-mm	1 1/8 in	Wiha Tools	**53KF83**
20-mm	1 1/8 in	Wiha Tools	**53KF84**
21-mm	1 1/8 in	Wiha Tools	**53KF85**
22-mm	1 1/8 in	Wiha Tools	**53KF86**
24-mm	1 1/8 in	Wiha Tools	**53KF87**
6-mm	1 1/8 in	Wiha Tools	**53KF70**
7-mm	1 1/8 in	Wiha Tools	**53KF71**
8-mm	1 1/8 in	Wiha Tools	**53KF72**
9-mm	1 1/8 in	Wiha Tools	**53KF73**
1/2 in Drive Size			
12-Point			
3/4"	1 5/8 in	Wiha Tools	**53KG19**
15/16"	1 5/8 in	Wiha Tools	**53KG22**
1 1/8"	1 5/8 in	Wiha Tools	**53KG24**
1 1/4"	1 5/8 in	Wiha Tools	**53KG25**
16-mm	1 5/8 in	Wiha Tools	**53KF96**
17-mm	1 5/8 in	Wiha Tools	**53KF97**
32-mm	1 5/8 in	Wiha Tools	**53KG10**

Power Sockets

1/4" Drive Power Socket
5WGK5

1/2" Drive Bit Holder
55EA51

Socket Size	Socket Depth	Finish	Overall Length	Bolt Clearance	Brand	Item No.
1/4 in Drive Size						
6-Point						
3/16 in	Standard	Black Oxide	7/8 in	5/32 in	Proto	**2MA13**
1/4 in	Standard	Black Oxide	7/8 in	11/64 in	Proto	**2MA14**
1/4 in	Standard	Natural	7/8 in	5/64 in	Apex	**5WGK4**
1/4 in	Standard	Natural	7/8 in	5/32 in	Apex	**5WGK7**
5/16 in	Standard	Black Oxide	15/16 in	13/64 in	Proto	**2MA15**
5/16 in	Standard	Natural	7/8 in	1/8 in	Apex	**5WGK5**
3/8 in	Standard	Black Oxide	15/16 in	15/64 in	Proto	**2MA17**
7/16 in	Standard	Black Oxide	1 in	1/4 in	Proto	**2MA18**
1/2 in	Standard	Black Oxide	1 in	1/4 in	Proto	**2MA19**
5 mm	Standard	Black Oxide	7/8 in	5/32 in	Proto	**2MA26**
6 mm	Standard	Black Oxide	7/8 in	11/64 in	Proto	**2MA28**
7 mm	Standard	Black Oxide	15/16 in	11/64 in	Proto	**2MA29**
8 mm	Standard	Black Oxide	15/16 in	11/64 in	Proto	**2MA30**
10 mm	Standard	Black Oxide	15/16 in	7/32 in	Proto	**2MA32**
11 mm	Standard	Black Oxide	1 in	17/64 in	Proto	**2MA33**
12 mm	Standard	Black Oxide	1 in	7/32 in	Proto	**2MA34**
13 mm	Standard	Black Oxide	1 in	19/64 in	Proto	**2MA35**
8-Point						
5/16 in	Standard	Natural	1 in	5/16 in	Apex	**5WGE0**
3/8 in Drive Size						
6-Point						
5/16 in	Standard	Black Oxide	1 3/32 in	3/16 in	Proto	**2MA42**
3/8 in	Standard	Black Oxide	1 3/32 in	15/64 in	Proto	**2MA43**
3/8 in	Standard	Black Oxide	1 1/2 in	15/16 in	Proto	**2MA71**
7/16 in	Standard	Black Oxide	1 3/16 in	1/4 in	Proto	**2MA44**
1/2 in	Standard	Black Oxide	1 3/16 in	7/32 in	Proto	**2MA45**
9/16 in	Standard	Black Oxide	1 3/16 in	21/64 in	Proto	**2MA46**
7 mm	Standard	Black Oxide	1 3/32 in	11/64 in	Proto	**2MA54**
7 mm	Standard	Natural	2 in	4.8 mm	Apex	**5RNK8**
8 mm	Standard	Black Oxide	1 3/32 in	7/32 in	Proto	**2MA55**
8 mm	Standard	Natural	50 4/5 mm	8 mm	Apex	**5WGP0**
10 mm	Standard	Black Oxide	1 9/64 in	7/32 in	Proto	**2MA56**
11 mm	Standard	Black Oxide	1 9/64 in	17/64 in	Proto	**2MA57**
12 mm	Standard	Black Oxide	1 9/64 in	7/32 in	Proto	**2MA58**
13 mm	Standard	Black Oxide	1 13/64 in	19/64 in	Proto	**2MA59**
15 mm	Standard	Black Oxide	1 13/64 in	21/64 in	Proto	**2MA60**
1/2 in Drive Size						
6-Point						
5/16 in	Deep	Natural	3 1/4 in	3/16 in	Apex	**5RNL8**
7/16 in	Standard	Black Oxide	1 1/2 in	1/4 in	Proto	**2MA72**
1/2 in	Standard	Black Oxide	1 1/2 in	17/64 in	Proto	**2MA73**
9/16 in	Standard	Black Oxide	1 1/2 in	21/64 in	Proto	**2MA74**
3/4 in Drive Size						
6-Point						
7/8 in	Deep	Natural	4 in	9/16 in	Apex	**5RNT0**
15/16 in	Deep	Natural	4 in	5/8 in	Apex	**5RNT1**

Output Drive Size	Output Drive Shape	Overall Length	Locking	Brand	Item No.
1/4" Drive Power Bit Holder Sockets					
1/4 in	Hex	1 in	No	Proto	**1AR82**
3/8" Drive Power Bit Holder Sockets					
1/4 in	Hex	1 3/4 in	No	Proto	**1AT26**
5/16 in	Hex	1 5/16 in	No	Proto	**1AT27**
7/16 in	Hex	1 3/8 in	Yes	Apex	**5WGL1**
7/16 in	Hex	2 in	Yes	Apex	**5WGK8**
1/2" Drive Power Bit Holder Sockets					
7/16 in	Hex	1 5/8 in	Yes	Apex	**5WGL2**
7/16 in	Square	2 29/32 in	No	Milwaukee	**55EA51**
5/8 in	Hex	1 1/2 in	No	Apex	**6YNW2**
3/4" Drive Power Bit Holder Sockets					
5/8 in	Hex	1 1/2 in	No	Apex	**6YNX3**
5/8 in	Hex	1 11/16 in	No	Apex	**6YNX5**
7/8 in	Hex	2 in	No	Apex	**6UGF8**
1" Drive Power Bit Holder Sockets					
5/8 in	Hex	2 1/8 in	No	Apex	**6UGF7**
7/8 in	Hex	2 1/8 in	No	Apex	**6UGF6**

Nonsparking Sockets

- Natural finish

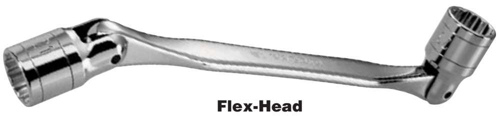
1/4" Drive Metric
32NJ71

1/2" Drive Torx
60KD82

Socket Size	Overall Length	Item No.
1/4" Drive SAE		
Standard		
5/16"	5/8 in	**32NJ55**
3/8"	11/16 in	**32NJ57**
7/16"	11/16 in	**32NJ58**
1/2"	13/16 in	**32NJ59**
9/16"	7/8 in	**32NJ60**
3/8" Drive SAE		
Standard		
1/2"	15/16 in	**4RPU9**
15/16"	1 5/16 in	**4RPV7**
Deep		
9/16"	1 7/8 in	**49UJ42**
7/8"	2 1/2 in	**49UJ47**
15/16"	2 1/2 in	**49UJ48**
1/2" Drive SAE		
Standard		
15/16"	1 1/2 in	**1TEF2**
1 1/8"	1 5/8 in	**1TEF4**
1 1/4"	1 5/8 in	**1TEF5**
1 5/8"	2 1/4 in	**49UH23**
Deep		
9/16"	3 3/16 in	**49UJ82**
3/4"	3 3/16 in	**49UJ87**
15/16"	3 3/16 in	**49UJ91**
1 1/16"	3 3/16 in	**49UJ93**
1 1/8"	3 3/16 in	**49UJ94**
1 1/4"	3 3/16 in	**49UJ96**
1 1/2"	3 3/16 in	**49UK01**
1 5/8"	3 3/16 in	**49UK03**
3/4" Drive SAE		
Standard		
1 1/4"	2 in	**49UH53**
1 7/16"	2 in	**4RPG6**
1 5/8"	2 1/4 in	**4RPG9**
2"	2 9/16 in	**4RPH5**
Deep		
1 7/16"	3 3/8 in	**32NK28**
1 5/8"	3 3/8 in	**32NK31**
1 7/8"	3 7/16 in	**32NK35**
1" Drive SAE		
Standard		
1 1/4"	2 1/2 in	**49UH82**
3 7/8"	5 3/16 in	**49UJ15**
Deep		
1 13/16"	3 7/16 in	**49UK21**
1 7/8"	3 7/16 in	**49UK22**
2 5/8"	4 5/8 in	**49UK34**
2 3/4"	4 5/8 in	**49UK35**
1/4" Drive Metric		
Deep		
12-mm	50 mm	**32NJ71**
13-mm	50 mm	**32NJ72**
14-mm	50 mm	**32NJ73**
3/8" Drive Metric		
Standard		
10-mm	13/16 in	**4RPW3**
Deep		
13-mm	1 3/4 in	**49UJ24**
21-mm	2 1/2 in	**49UJ32**
8-mm	1 3/4 in	**49UJ19**
1/2" Drive Metric		
Deep		
19-mm	75 mm	**49UJ63**
21-mm	75 mm	**49UJ65**
24-mm	75 mm	**49UJ68**
25-mm	75 mm	**49UJ69**
3/4" Drive Metric		
Standard		
36-mm	1 7/8 in	**4RPJ1**
37-mm	2 in	**4RPJ2**
40-mm	52 mm	**49UH36**
47-mm	62 mm	**49UH37**
1" Drive Metric		
Standard		
36-mm	65 mm	**49UH62**
55-mm	87 mm	**49UH69**
Deep		
60-mm	4 1/8 in	**49UK09**
1/2" Drive Torx Plus Sockets		
Standard		
EP18	1 31/64 in	**60KD82**
EP20	1 47/64 in	**60KD83**
EP22	2 in	**60KD84**

For more information on Sockets, see page 757.

Fixed-Head
Double End
2TLG7



Flex-Head
Double-End
36T927

Nonsparking
Fixed-Head
49UL64

Ratcheting
38HV28

Socket Head Combination Wrenches

Socket Size	Overall Length	Wrench Shape	Bolt Through Design	Finish	Brand	Item No.
Fixed-Head Double-End Socket End Wrenches						
12-Point, 6-Point						
6-mm	4 1/64 in	L	Yes	Satin	Facom	**36T885**
8-mm	4 35/64 in	L	Yes	Satin	Facom	**36T887**
9-mm	4 51/64 in	L	Yes	Satin	Facom	**36T888**
12-mm	5 43/64 in	L	Yes	Satin	Facom	**36T859**
13-mm	5 63/64 in	L	Yes	Satin	Facom	**36T860**
14-mm	6 19/64 in	L	Yes	Satin	Facom	**36T861**
16-mm	7 1/64 in	L	Yes	Satin	Facom	**36T863**
17-mm	7 23/64 in	L	Yes	Satin	Facom	**36T864**
18-mm	7 43/64 in	L	Yes	Satin	Facom	**36T865**
19-mm	8 1/32 in	L	Yes	Satin	Facom	**36T866**
21-mm	8 45/64 in	L	Yes	Satin	Facom	**36T868**
22-mm	9 1/16 in	L	Yes	Satin	Facom	**36T869**
23-mm	9 29/64 in	L	Yes	Satin	Facom	**36T870**
25-mm	10 15/64 in	L	Yes	Satin	Facom	**36T872**
26-mm	10 5/8 in	L	Yes	Satin	Facom	**36T873**
28-mm	11 27/64 in	L	Yes	Satin	Facom	**36T875**
29-mm	11 13/16 in	L	Yes	Satin	Facom	**36T876**
30-mm	12 13/64 in	L	Yes	Satin	Facom	**36T877**
31-mm	12 19/32 in	L	Yes	Satin	Facom	**36T878**
32-mm	12 63/64 in	L	Yes	Satin	Facom	**36T879**
33-mm	13 25/64 in	L	Yes	Satin	Facom	**36T880**
34-mm	13 25/32 in	L	Yes	Satin	Facom	**36T881**
36-mm	14 9/16 in	L	Yes	Satin	Facom	**36T883**
6-Point						
6-mm	5 31/100 in	L	Yes	Chrome	Beta	**420U35**
7-mm	5 31/100 in	L	Yes	Chrome	Beta	**420U36**
8-mm	6 69/100 in	L	Yes	Chrome	Beta	**420U37**
9-mm	6 69/100 in	L	Yes	Chrome	Beta	**420U38**
10-mm	2 9/25 in	L	Yes	Chrome	Beta	**420U39**
11-mm	7 12/25 in	L	Yes	Chrome	Beta	**420U40**
12-mm	7 12/25 in	L	Yes	Chrome	Beta	**420U41**
13-mm	9 3/50 in	L	Yes	Chrome	Beta	**420U42**
14-mm	8 23/50 in	L	Yes	Chrome	Beta	**420U43**
15-mm	9 21/25 in	L	Yes	Chrome	Beta	**420U44**
16-mm	9 21/25 in	L	Yes	Chrome	Beta	**420U45**
17-mm	9 21/25 in	L	Yes	Chrome	Beta	**420U46**
18-mm	9 21/25 in	L	Yes	Chrome	Beta	**420U47**
19-mm	12 99/100 in	L	Yes	Chrome	Beta	**420U48**
20-mm	12 1/5 in	L	Yes	Chrome	Beta	**420U49**
21-mm	12 1/5 in	L	Yes	Chrome	Beta	**420U50**
22-mm	12 1/5 in	L	Yes	Chrome	Beta	**420U51**
23-mm	12 1/5 in	L	Yes	Chrome	Beta	**420U52**
24-mm	13 19/100 in	L	Yes	Chrome	Beta	**420U53**
25-mm	13 19/100 in	L	Yes	Chrome	Beta	**420U54**
26-mm	13 19/100 in	L	Yes	Chrome	Beta	**420U55**
27-mm	13 19/100 in	L	Yes	Chrome	Beta	**420U56**
28-mm	13 19/100 in	L	Yes	Chrome	Beta	**420U57**
30-mm	17 8/25 in	L	Yes	Chrome	Beta	**420U58**
32-mm	17 8/25 in	L	Yes	Chrome	Beta	**420U59**
5/16"	4 31/64 in	L	Yes	Satin	Facom	**2TLG7**
3/8"	5 5/64 in	L	Yes	Satin	Facom	**2TLG6**
7/16"	5 23/64 in	L	Yes	Satin	Facom	**2TLG9**
1/2"	5 63/64 in	L	Yes	Satin	Facom	**2TLF9**
9/16"	6 21/32 in	L	Yes	Satin	Facom	**2TLH2**
3/4"	8 1/32 in	L	Yes	Satin	Facom	**2TLG5**
13/16"	8 45/64 in	L	Yes	Satin	Facom	**2TLG3**
7/8"	9 29/64 in	L	Yes	Satin	Facom	**2TLH1**
15/16"	1 27/32 in	L	Yes	Satin	Facom	**2TLG4**
Flex-Head Double-End Socket End Wrenches						
12-Point						
6-mm,-7-mm	7 11/16 in	L	No	Satin	Facom	**36T927**
8-mm,-9-mm	7 11/16 in	L	No	Satin	Facom	**36T928**
10-mm,-11-mm	7 7/8 in	L	No	Satin	Facom	**36T918**
12-mm,-13-mm	9 1/4 in	L	No	Satin	Facom	**36T919**
14-mm,-15-mm	9 1/4 in	L	No	Satin	Facom	**36T920**
16-mm,-17-mm	9 7/16 in	L	No	Satin	Facom	**36T921**
18-mm,-19-mm	11 7/32 in	L	No	Satin	Facom	**36T922**
21-mm,-23-mm	11 13/32 in	L	No	Satin	Facom	**36T924**
Flex-Head T-Handle Socket End Wrenches						
6-Point						
6-mm	16 23/50 in	T	No	Chrome	Beta	**420U16**
7-mm	16 23/50 in	T	No	Chrome	Beta	**420U17**
8-mm	19 9/100 in	T	No	Chrome	Beta	**420U18**
9-mm	16 23/50 in	T	No	Chrome	Beta	**420U19**
10-mm	19 9/100 in	T	No	Chrome	Beta	**420U20**
11-mm	19 9/100 in	T	No	Chrome	Beta	**420U21**
12-mm	19 9/100 in	T	No	Chrome	Beta	**420U22**
13-mm	19 9/100 in	T	No	Chrome	Beta	**420U23**
14-mm	19 9/100 in	T	No	Chrome	Beta	**420U24**
15-mm	20 7/25 in	T	No	Chrome	Beta	**420U25**
16-mm	20 7/25 in	T	No	Chrome	Beta	**420U26**
17-mm	20 7/25 in	T	No	Chrome	Beta	**420U27**
18-mm	17 91/100 in	T	No	Chrome	Beta	**420U28**
19-mm	20 7/25 in	T	No	Chrome	Beta	**420U29**
20-mm	20 7/25 in	T	No	Chrome	Beta	**420U30**
21-mm	20 7/25 in	T	No	Chrome	Beta	**420U31**
22-mm	20 7/25 in	T	No	Chrome	Beta	**420U32**
24-mm	20 7/25 in	T	No	Chrome	Beta	**420U33**
Nonsparking Fixed-Head Socket End Wrenches						
6-Point						
8-mm	6 7/8 in	L	No	Natural	Ampco	**49UL64**
9-mm	7 9/32 in	L	No	Natural	Ampco	**49UL65**
10-mm	7 11/16 in	L	No	Natural	Ampco	**49UL66**
11-mm	8 1/16 in	L	No	Natural	Ampco	**49UL67**
12-mm	8 21/32 in	L	No	Natural	Ampco	**49UL68**
13-mm	1 11/16 in	L	No	Natural	Ampco	**49UL69**
14-mm	1 11/16 in	L	No	Natural	Ampco	**49UL70**
15-mm	1 27/32 in	L	No	Natural	Ampco	**49UL71**
16-mm	1 27/32 in	L	No	Natural	Ampco	**49UL72**
17-mm	10 5/8 in	L	No	Natural	Ampco	**49UL73**
18-mm	10 5/8 in	L	No	Natural	Ampco	**49UL74**
19-mm	11 7/16 in	L	No	Natural	Ampco	**49UL75**
20-mm	11 7/16 in	L	No	Natural	Ampco	**49UL76**
21-mm	12 7/32 in	L	No	Natural	Ampco	**49UL77**
22-mm	12 7/32 in	L	No	Natural	Ampco	**49UL78**
23-mm	13 3/16 in	L	No	Natural	Ampco	**49UL79**
24-mm	13 3/16 in	L	No	Natural	Ampco	**49UL80**
5/16"	6 3/4 in	L	No	Natural	Ampco	**49UL81**
11/32"	7 1/4 in	L	No	Natural	Ampco	**49UL82**
3/8"	7 1/2 in	L	No	Natural	Ampco	**49UL83**
13/32"	8 in	L	No	Natural	Ampco	**49UL84**
7/16"	8 1/2 in	L	No	Natural	Ampco	**49UL85**
1/2"	9 1/2 in	L	No	Natural	Ampco	**49UL86**
9/16"	9 1/2 in	L	No	Natural	Ampco	**49UL87**
19/32"	9 3/4 in	L	No	Natural	Ampco	**49UL88**
5/8"	20 in	L	No	Natural	Ampco	**49UL89**
11/16"	10 1/2 in	L	No	Natural	Ampco	**49UL90**
3/4"	11 1/2 in	L	No	Natural	Ampco	**49UL91**
25/32"	11 1/2 in	L	No	Natural	Ampco	**49UL92**
13/16"	12 1/4 in	L	No	Natural	Ampco	**49UL93**
7/8"	12 1/4 in	L	No	Natural	Ampco	**49UL94**
15/16"	13 1/4 in	L	No	Natural	Ampco	**49UL95**
1 1/16"	14 1/4 in	L	No	Natural	Ampco	**49UL96**
15 1/2"	15 1/2 in	L	No	Natural	Ampco	**49UL97**
18 1/4"	18 1/4 in	L	No	Natural	Ampco	**49UL98**
Ratcheting Socket End Wrenches						
6-Point						
1 1/16",-1-1/4"	13 in	T	Yes	Satin	Reed	**38HV28**

Socket Size	Overall Length	Brand	Item No.
Fixed-Head Double-End Socket End Wrench Sets			
6-Point			
6 mm, 7 mm, 8 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 17 mm, 19 mm, 22 mm	11 61/100 in	Beta	**420U60**
8 mm, 10 mm, 11 mm, 13 mm, 14 mm, 17 mm, 19 mm	20 7/25 in	Beta	**420U34**

Hex Bit Sets

These hex socket bit sets contain an assortment of hex bit sizes for tightening and loosening fasteners with an hexagonal-shaped indentation in the fastener head. **Ball hex socket bit sets** contain bits that can be used at an angle to rotate fasteners in tight spaces. **Hex impact socket bit sets** attach to impact power wrenches. **Hex short socket bit sets** have a shorter bit length than standard socket bits.

Ball Hex
54TM57

Hex Impact
5ME81

Hex Short
4JW05

Hex
3R779

Drive Size	No. of Pieces	Range of Tip Sizes	Overall Length	Replaceable Insert	Finish	Brand	Item No.
Ball Hex Socket Bit Sets							
¼ in	8	¼ in to 9/64 in	1 ½ in	No	Chrome	Proto	**19ZC11**
⅜ in	7	3 mm to 10 mm	1 27/32 in	No	Chrome	Westward	**54TM57**
	8	3mm to 10mm	8 in	Yes	Chrome	SK Tools	**20K472**
	9	3 mm to 10 mm	8 in	Yes	Chrome	SK Tools	**20K448**
Hex Impact Socket Bit Sets							
⅜ in	13	3/16 in to ½ in, 4 mm to 12 mm	2 23/64 in	No	Black Oxide	Westward	**4PRG1**
½ in	10	¼ in to ¾ in	3 in	No	Black Oxide	Westward	**4PRH1**
	18	¼ in to ¾ in, 6 mm to 18 mm	3 in	No	Black Oxide	Westward	**4PRH3**
¾ in	5	9/16 into1 in		No	Black Oxide	Proto	**5ME81**
	5	9/16 in to 1 in	11 in	Yes	Black Oxide	Wright	**48J308**
	5	14 mm to 24 mm	11 in	Yes	Black Oxide	Wright	**48J310**
Hex Short Socket Bit Sets							
⅜ in	7	4 mm to 10 mm	1 25/32 in	No	Chrome	Proto	**4JW05**
Hex Socket Bit Sets							
¼ in	3	1/16 in to ¼ in	6 ½ in	Yes	Chrome	SK Tools	**20K436**
	3	2 mm to 6 mm	1 ⅞ in	No	Chrome	Proto	**3R779**
	4	½ in to 9/16 in	1 ⅞ in	No	Chrome	Proto	**3R745**
	6	2 mm to 6 mm	4 ½ in	Yes	Chrome	SK Tools	**20K437**
	7	¼ in to 9/64 in	4 ¾ in	No	Chrome	Westward	**54TL91**
	7	2 mm to 6 mm	4 51/64 in	No	Chrome	Westward	**54TM15**
	10	1.5 mm to 7 mm	2 ¾ in	No	Chrome	Proto	**56JR97**
	11	1/16 in to 5/16 in	1 37/64 in	No	Chrome	Westward	**54TL79**
	11	1/16 in to 5/16 to	2 ¾ in	No	Chrome	Proto	**56JT27**
	16	2 mm to 8 mm	1 37/64 in	No	Chrome	Westward	**54TM03**
⅜ in	3	5 mm to 12 mm	7 ½ in	Yes	Chrome	SK Tools	**20K471**
	6	⅛ in to ⅜ in	6 ⅛ in	Yes	Chrome	SK Tools	**12D296**
	6	⅛ in to ⅜ in	7 ¾ in	Yes	Chrome	SK Tools	**20K468**
⅜ in, ½ in	6	5/32 in to ⅝ in	9 ¼ in	Yes	Chrome	SK Tools	**12D294**
⅜ in	6	¼ in to 7/32 in	4 53/64 in	No	Chrome	Westward	**54TM26**
	6	4 mm to 10 mm	6 3/32 in	No	Chrome	Proto	**1AF37**
	7	1/16 in to 9/64 in	6 3/32 in	No	Chrome	Proto	**1Q756**
	7	⅛ in to ⅜ in	1 13/16 in	No	Chrome	Proto	**4JW01**
	7	⅛ in to ⅜ in	2 23/32 in	No	Chrome	Proto	**1AF33**
	7	⅛ in to ⅜ in	2 ¾ in	No	Chrome	Proto	**56JT35**
	7	½ in to 9/16 in	6 3/32 in	No	Chrome	Proto	**1AF34**
	7	4 mm to 10 mm	2 23/32 in	No	Chrome	Proto	**4JW06**
	8	5/54 in to ¼ in	11 in	Yes	Chrome	SK Tools	**20K482**
	8	¼ in to 7/32 in	4 53/64 in	No	Chrome	Westward	**54TM49**
	8	3 mm to 10 mm	4 53/64 in	No	Chrome	Westward	**54TM66**
	9	⅛ in to ⅜ in	1 27/32 in	No	Chrome	Westward	**54TM41**
	11	4 mm to 10 mm	4 53/64 in	No	Chrome	Westward	**54TM34**
	12	1/16 in to ⅜ in	1 27/32 in	No	Chrome	Westward	**54TM25**
	12	1/16 in to ⅜ in	7 ½ in	Yes	Chrome	SK Tools	**20K467**
	12	⅛ to ⅜	7 ⅜ in	Yes	Chrome	SK Tools	**20K840**
	12	2 to 12 mm	1 57/64 in	No	Chrome	Westward	**33HD80**
	12	2 mm to 12 mm	7 ½ in	Yes	Chrome	SK Tools	**20K470**
	12	4 mm to 10 mm	6 ⅞ in	Yes	Chrome	SK Tools	**20K469**
	13	⅛ in to ⅜ in, 4 mm to 10 mm	1 27/32 in	No	Chrome	Westward	**54TL55**
	13	5/32 in to ⅜ in	8 in	Yes	Chrome	SK Tools	**20K447**
	13	¼ in to 7/32 in, 4 mm to 10 mm	2 23/32 in	No	Chrome	Proto	**33HE17**
	15	2 mm to 12 mm	1 27/32 in	No	Chrome	Westward	**54TM33**
	27	1/16 in to ⅜ in, 2 mm to 12 mm	1 27/32 in	No	Chrome	Westward	**54TL64**
⅜ in, ½ in	33	4 mm to 17 mm	9 ¼ in	Yes	Chrome	SK Tools	**12D295**
½ in	3	6 mm to 19 mm	2 5/32 in	No	Chrome	Westward	**54TM92**
	5	5/16 in to ⅝ in	8 in	Yes	Chrome	SK Tools	**20K402**
	6	½ in to 9/16 in	4 ⅝ in, 5 ⅝ in, 7 ⅛ in	No	Chrome	Proto	**3R747**
	6	8 mm to 17 mm	5 7/64 in	No	Chrome	Westward	**54TN01**
	7	¼ in to ¾ in	2 5/32 in	No	Chrome	Westward	**54TM75**
	7	¼ in to ⅝ in	3 ¼ in	No	Chrome	Proto	**3R748**
	7	5/16 in to ¾ in	9 ½ in	Yes	Chrome	SK Tools	**20K401**
	7	½ in to 9/16 in	4 in	No	Chrome	Westward	**1EZJ1**
	7	6 mm to 19 mm	9 ¼ in	Yes	Chrome	SK Tools	**20K360**
	8	5/16 in to ¾ in	2 ¾ in	No	Chrome	Proto	**56JT44**
	8	½ in to 9/16 in	5 7/64 in	No	Chrome	Westward	**54TM84**
	8	11 mm to 19 mm	2 ¾ in	No	Chrome	Proto	**56JT15**
	9	8 mm to 17 mm	8 ½ in	Yes	Chrome	SK Tools	**20K403**
	10	6 mm to 19 mm	3 ¼ in, 3 41/64 in	No	Chrome	Proto	**4JW37**

Torx
20K348

Impact
4PRH7

Tamper-Resistant
54TN33

Torx Socket Bit Sets

Drive Size	No. of Pieces	Range of Tip Sizes	Overall Length	Finish	Replaceable Insert	Brand	Item No.
Torx Socket Bit Sets							
¼ in	7	T8 to T30	1 9/16 in	Chrome	No	Westward	**54TN14**
	6	T10 to T30	1 ½ in, 1 ¾ in	Chrome	No	Proto	**5C625**
⅜ in	6	T15 to T40	1 23/32 in	Chrome	No	Proto	**5C627**
	6	T15 to T47	1 55/64 in	Chrome	No	Westward	**54TN32**
	9	E-10 to E-16	1 in	Chrome	No	Westward	**54TN42**
	9	T15 to T50	1 23/32 in	Chrome	No	Proto	**5C626**
½ in	9	T25 to T60	2 5/32 in	Chrome	No	Westward	**54TN47**
¼ in,-3/8 in	7	T8 to T50	8 ½ in	Chrome	Yes	SK Tools	**20K423**
	7	T8 to T60	10 in	Chrome	Yes	SK Tools	**20K488**
	9	T10 to T47	1 43/64 in	Chrome	No	Westward	**54TN07**
	10	#1 to #3, ¼ in to ⅜ in, 2 mm to 10 mm, T10 to T55	1 ½ in, 1 23/32 in	Chrome	No	Proto	**35GM71**
¼ in,-3/8 in,-1/2 in	5	T8 to T60	9 ¾ in	Chrome	Yes	SK Tools	**20K348**
Torx Impact Socket Bit Sets							
¼ in,-3/8 in,-1/2 in	12	T10 to T60	3 in	Black Oxide	No	Westward	**4PRH7**
Tamper-Resistant Torx Socket Bit Sets							
¼ in	7	T7 to T30	1 9/16 in	Chrome	No	Westward	**54TN16**
⅜ in	8	T15 to T47	1 55/64 in	Chrome	No	Westward	**54TN33**
½ in	10	T25 to T60	2 5/32 in	Chrome	No	Westward	**54TN57**
¼ in,-3/8 in	15	T7 to T55	8 ½ in	Chrome	Yes	SK Tools	**20K420**
¼ in,-3/8 in,-1/2 in	12	E4 to E10, T8 to T55	25/32 in, 31/32 in, 1 13/64 in, 1 ½ in, 1 ⅝ in, 1 11/16 in, 1 ¾ in, 2 ⅛ in, 2 7/16 in	Chrome	Yes	SK Tools	**12D293**

Hex Bits

Ball Hex
426H60

Insulated
53KG29

Impact
1FM56

Hex
Socket Bit
1AL87

Drive Size	Tip Size	Overall Length	Replaceable Insert	Brand	Item No.
12-Point Socket Bits					
3/8 in	8-mm	4 1/2 in	Yes	SK Tools	**20K821**
Ball Hex Socket Bits					
3/8 in	5/32 in	6 3/32 in	No	Proto	**426H60**
	5/32 in	7 1/16 in	Yes	SK Tools	**20K773**
	3/16 in	6 3/32 in	No	Proto	**426H61**
	3/16 in	7 1/16 in	Yes	SK Tools	**20K770**
	1/4 in	6 3/32 in	No	Proto	**426H63**
	1/4 in	7 1/16 in	Yes	SK Tools	**20K768**
	5/16 in	6 3/32 in	No	Proto	**426H64**
	5/16 in	7 1/16 in	Yes	SK Tools	**20K772**
	3/8 in	6 3/32 in	No	Proto	**426H65**
	3/8 in	7 1/16 in	Yes	SK Tools	**20K771**
	3-mm	7 in	Yes	SK Tools	**20K657**
	4-mm	7 in	Yes	SK Tools	**20K658**
	5-mm	7 in	Yes	SK Tools	**20K659**
	6-mm	7 in	Yes	SK Tools	**20K660**
	8-mm	7 in	Yes	SK Tools	**20K662**
Hex Impact Socket Bits					
3/8 in	1/8 in	2 23/32 in	No	Proto	**1FM60**
	5/32 in	2 23/32 in	No	Proto	**1FM56**
	3/16 in	2 23/32 in	No	Proto	**1FM59**
	3/16 in	2 in	No	Westward	**4LZA8**
	7/32 in	2 in	No	Westward	**4LZA9**
	7/32 in	2 23/32 in	No	Proto	**1FM55**
	1/4 in	2 23/32 in	No	Proto	**1FM61**
	1/4 in	2 in	No	Westward	**4LZC1**
	5/16 in	2 in	No	Westward	**4LZC2**
	5/16 in	2 23/32 in	No	Proto	**1FM57**
	3/8 in	2 23/32 in	No	Proto	**1FM58**
	3/8 in	2 in	No	Westward	**4LZC3**
	10-mm	2 in	No	Westward	**4LZD1**
	10-mm	2 23/32 in	No	Proto	**1FM66**
	4-mm	2 23/64 in	No	Westward	**4LZC6**
	4-mm	2 23/32 in	No	Proto	**1FM65**
	5-mm	2 23/32 in	No	Proto	**1FM64**
	5-mm	2 in	No	Westward	**4LZC7**
	6-mm	2 23/32 in	No	Proto	**1FM63**
	6-mm	2 in	No	Westward	**4LZC8**
	8-mm	2 23/32 in	No	Proto	**1FM62**
1/2 in	1/4 in	3 in	No	Westward	**4LZD7**
	1/4 in	3 1/4 in	No	Proto	**1FK59**
	5/16 in	3 1/4 in	No	Proto	**1FK57**
	5/16 in	3 in	No	Westward	**4LZD9**
	3/8 in	3 1/4 in	No	Proto	**1FK58**
	3/8 in	3 in	No	Westward	**4LZE1**
	7/16 in	3 1/4 in	No	Proto	**1FK55**
	1/2 in	3 5/8 in	No	Proto	**1FK60**
	1/2 in	3 in	No	Westward	**4LZE3**
	9/16 in	3 5/8 in	No	Proto	**1FK54**
	5/8 in	3 in	No	Westward	**4LZE5**
	5/8 in	4 in	No	Proto	**1FK56**
	3/4 in	3 in	No	Westward	**4LZE7**
	10-mm	3 in	No	Westward	**4LZF1**
	10-mm	3 1/4 in	No	Proto	**1FK66**
	12-mm	3 in	No	Westward	**4LZF2**
	12-mm	3 1/4 in	No	Proto	**1FK65**
	14-mm	3 5/8 in	No	Proto	**1FK64**
	14-mm	3 in	No	Westward	**4LZF3**
	17-mm	3 in	No	Westward	**4LZF5**
	17-mm	4 in	No	Proto	**1FK63**
	19-mm	3 in	No	Westward	**4LZD6**
	6-mm	3 in	No	Westward	**4LZE8**
	6-mm	3 1/4 in	No	Proto	**1FK62**
	8-mm	3 1/4 in	No	Proto	**1FK61**
	8-mm	3 in	No	Westward	**4LZD5**

Drive Size	Tip Size	Overall Length	Replaceable Insert	Brand	Item No.
3/4 in	9/16 in	3 3/4 in	No	Proto	**1AX69**
	5/8 in	3 27/32 in	No	Proto	**1AX70**
	3/4 in	4 3/8 in	No	Proto	**1AX71**
	7/8 in	4 3/4 in	No	Proto	**1AX72**
	1 1/4 in	3 1/2 in	No	Westward	**21WL67**
	12-mm	3 3/4 in	Yes	Wright Tool	**29AN27**
	14-mm	3 1/2 in	Yes	Westward	**20HX51**
	17-mm	3 1/2 in	Yes	Westward	**20HX52**
	17-mm	3 1/4 in	Yes	Wright Tool	**29AN23**
	19-mm	3 1/2 in	Yes	Westward	**20HX53**
	19-mm	3 1/4 in	Yes	Wright Tool	**29AN25**
	1 in	5 13/64 in	No	Proto	**1AX73**
	22-mm	3 1/2 in	Yes	Westward	**20HX54**
	24-mm	3 1/2 in	Yes	Westward	**20HX55**
	24-mm	3 3/4 in	Yes	Wright Tool	**29AN29**
1 in	5/8 in	3 15/16 in	Yes	Wright Tool	**29AR82**
	3/4 in	4 1/2 in	Yes	Wright Tool	**29AR83**
	7/8 in	4 7/8 in	Yes	Wright Tool	**29AR84**
	1 in	5 5/16 in	Yes	Wright Tool	**29AR85**
Hex Insulated Socket Bits					
3/8 in	5/16 in	3 7/64 in	No	Wiha Tools	**53KG29**
	3/8 in	3 7/64 in	No	Wiha Tools	**53KG30**
	7/16 in	3 7/64 in	No	Wiha Tools	**53KG31**
	1/2 in	3 7/64 in	No	Wiha Tools	**53KG32**
Hex Socket Bits					
1/4 in	3/32 in	1 7/8 in	No	Proto	**426H44**
	5/32 in	1 7/8 in	No	Proto	**426H49**
	3/16 in	1 7/8 in	No	Proto	**426H42**
	3-mm	1 7/8 in	No	Proto	**426H46**
3/8 in	1/8 in	2 23/32 in	No	Proto	**426H69**
	1/8 in	6 3/32 in	No	Proto	**1AL73**
	5/32 in	1 13/16 in	No	Proto	**4JW12**
	5/32 in	1 3/4 in	No	Westward	**54TL57**
	5/32 in	2 23/32 in	No	Proto	**426H80**
	5/32 in	6 3/32 in	No	Proto	**426H81**
	5/32 in	7 in	Yes	SK Tools	**20K766**
	3/16 in	1 13/16 in	No	Proto	**4JW09**
	3/16 in	1 3/4 in	No	Westward	**53YV79**
	3/16 in	2 23/32 in	No	Proto	**426H71**
	3/16 in	6 3/32 in	No	Proto	**426H72**
	3/16 in	7 in	Yes	SK Tools	**20K763**
	7/32 in	2 23/32 in	No	Proto	**426H84**
	7/32 in	3 in	Yes	SK Tools	**12A255**
	1/4 in	1 3/4 in	No	Westward	**53YV81**
	1/4 in	1 13/16 in	No	Proto	**426H67**
	1/4 in	2 23/32 in	No	Proto	**426H66**
	1/4 in	3 in	Yes	SK Tools	**12A256**
	1/4 in	6 3/32 in	No	Proto	**426H68**
	1/4 in	7 in	Yes	SK Tools	**20K760**
	5/16 in	1 3/4 in	No	Westward	**53YV82**
	5/16 in	2 23/32 in	No	Proto	**426H77**
	5/16 in	6 3/32 in	No	Proto	**426H79**
	3/8 in	2 23/32 in	No	Proto	**426H73**
	4-mm	2 23/32 in	No	Proto	**426H76**
	4-mm	6 3/32 in	No	Proto	**1AL86**
	5-mm	1 3/4 in	No	Westward	**54TL59**
	5-mm	2 23/32 in	No	Proto	**426H82**
	5-mm	6 3/32 in	No	Proto	**1AL87**
	6-mm	1 3/4 in	No	Westward	**54TL60**
	6-mm	2 23/32 in	No	Proto	**426H83**
	6-mm	3 in	Yes	SK Tools	**12A264**
	6-mm	6 3/32 in	No	Proto	**1AL88**
	6-mm	7 in	Yes	SK Tools	**20K757**
	8-mm	1 3/4 in	No	Westward	**54TL62**
	8-mm	2 23/32 in	No	Proto	**426H88**
	8-mm	3 in	Yes	SK Tools	**12A266**
1/2 in	5/16 in	3 1/4 in	No	Proto	**426J18**
	5/16 in	5 5/8 in	No	Proto	**1AP11**
	3/8 in	3 1/4 in	No	Proto	**426J17**
	3/8 in	5 5/8 in	No	Proto	**1AP12**
	7/16 in	3 1/4 in	No	Proto	**426J21**
	1/2 in	2 1/4 in	No	Westward	**54TM80**
	1/2 in	3 5/8 in	No	Proto	**426J06**
	1/2 in	4 5/32 in	Yes	SK Tools	**12A259**
	1/2 in	7 1/8 in	No	Proto	**1AP13**
	5/8 in	4 in	No	Proto	**426J19**
	3/4 in	4 in	No	Proto	**426J16**
	3/4 in	4 3/4 in	Yes	SK Tools	**20K527**
	10-mm	3 1/4 in	No	Proto	**426J08**
	10-mm	3 1/4 in	No	Proto	**49XG14**
	12-mm	3 1/4 in	No	Proto	**426J09**
	14-mm	2 1/4 in	No	Westward	**54TM97**
	14-mm	3 41/64 in	No	Proto	**426J11**
	14-mm	4 5/32 in	Yes	SK Tools	**12A269**
	17-mm	4 in	No	Proto	**426J13**
	17-mm	7 1/8 in	No	Proto	**1AP24**
	19-mm	4 in	No	Proto	**426J15**

Tamper
Resistant
54TN22

Torx Bits
54TN65

Torx Plus
20K344

Torx Socket Bits

Drive Size	Tip Size	Overall Length	Finish	Replaceable Insert	Brand	Item No.
Tamper Resistant Torx Bits						
1/4 in	T15	2 3/4 in	Chrome	Yes	SK Tools	**12A339**
	T25	1 1/2 in	Chrome	No	Westward	**54TN22**
	T25	2 3/4 in	Chrome	Yes	SK Tools	**12A341**
	T27	2 3/4 in	Chrome	Yes	SK Tools	**12A342**
	T30	1 7/8 in	Chrome	No	Westward	**54TN24**
	T30	2 3/4 in	Chrome	Yes	SK Tools	**12A343**
3/8 in	T20	1 3/4 in	Chrome	No	Westward	**54TN35**
	T25	1 3/4 in	Chrome	No	Westward	**54TN36**
	T27	1 3/4 in	Chrome	No	Westward	**54TN37**
	T30	1 3/4 in	Chrome	No	Westward	**54TN38**
	T40	1 3/4 in	Chrome	No	Westward	**54TN39**
	T45	1 3/4 in	Chrome	No	Westward	**54TN40**
	T45	3 in	Chrome	Yes	SK Tools	**12A455**
	T50	3 in	Chrome	Yes	SK Tools	**12A456**
	T55	3 in	Chrome	Yes	SK Tools	**12A457**
Torx Bits						
1/4 in	T15	1 1/2 in	Chrome	No	Proto	**426H27**
	T20	1 1/2 in	Chrome	No	Proto	**426H28**
	T20	1 5/8 in	Black Oxide	No	Westward	**1EZK1**
	T20	2 3/4 in	Chrome	Yes	SK Tools	**12A340**
	T25	1 1/2 in	Chrome	No	Proto	**426H29**
	T27	1 7/8 in	Chrome	No	Westward	**54TN23**
	T30	1 3/4 in	Chrome	No	Proto	**426H31**
3/8 in	T15	1 23/32 in	Chrome	No	Proto	**426H91**
	T20	1 23/32 in	Chrome	No	Proto	**426H92**
	T20	1 13/16 in	Chrome	No	Westward	**53YV85**
	T25	1 23/32 in	Chrome	No	Proto	**426H93**
	T25	1 13/16 in	Chrome	No	Westward	**53YV86**
	T27	1 23/32 in	Chrome	No	Proto	**426H94**
	T30	1 23/32 in	Chrome	No	Proto	**426H95**
	T30	1 7/8 in	Chrome	No	Westward	**53YV88**
	T30	5 in	Chrome	Yes	SK Tools	**20K825**
	T40	1 23/32 in	Chrome	No	Proto	**426H96**
	T40	1 7/8 in	Chrome	No	Westward	**53YV89**
	T40	2 in	Black Oxide	No	Westward	**4LYZ6**
	T40	2 3/4 in	Chrome	Yes	SK Tools	**12A458**
	T40	3 in	Chrome	Yes	SK Tools	**12A454**
	T40	5 in	Chrome	Yes	SK Tools	**20K826**
	T45	1 15/16 in	Chrome	No	Westward	**53YV90**
	T45	1 23/32 in	Chrome	No	Proto	**426H97**
	T45	2 in	Black Oxide	No	Westward	**4LYZ7**
	T45	3 in	Chrome	Yes	SK Tools	**12A459**
	T45	5 in	Chrome	Yes	SK Tools	**20K827**
	T50	1 23/32 in	Chrome	No	Proto	**426H98**
	T50	2 in	Black Oxide	No	Westward	**4LYZ9**
	T50	3 in	Chrome	Yes	SK Tools	**12A461**
	T50	5 in	Chrome	Yes	SK Tools	**20K828**
	T55	1 23/32 in	Chrome	No	Proto	**426H99**
	T55	3 1/4 in	Chrome	Yes	SK Tools	**12A462**
1/2 in	T40	2 1/4 in	Chrome	No	Westward	**54TN61**
	T40	2 1/4 in	Chrome	No	Westward	**54TN51**
	T45	2 1/4 in	Chrome	No	Westward	**54TN62**
	T50	2 1/4 in	Chrome	No	Westward	**54TN64**
	T50	2 1/2 in	Chrome	No	Westward	**54TN54**
	T55	2 1/2 in	Chrome	No	Westward	**54TN65**
Torx Plus Bits						
1/4 in	T10	2 3/4 in	Chrome	Yes	SK Tools	**20K341**
	T15	2 3/4 in	Chrome	Yes	SK Tools	**20K342**
	T20	2 3/4 in	Chrome	Yes	SK Tools	**20K343**
	T25	2 3/4 in	Chrome	Yes	SK Tools	**20K344**
	T27	2 3/4 in	Chrome	Yes	SK Tools	**20K345**
	T30	2 3/4 in	Chrome	Yes	SK Tools	**20K346**
	T8	2 3/4 in	Chrome	Yes	SK Tools	**20K347**
3/8 in	T40	3 in	Chrome	Yes	SK Tools	**20K353**
	T45	3 in	Chrome	Yes	SK Tools	**20K352**
	T50	3 1/8 in	Chrome	Yes	SK Tools	**20K354**
	T55	3 1/8 in	Chrome	Yes	SK Tools	**20K355**
1/2 in	T60	3 29/64 in	Chrome	Yes	SK Tools	**20K337**

Slotted Socket Bits & Replacement Inserts

- Alloy steel

Drive Size	Tip Size	Overall Length	Finish	Replaceable Insert	Brand	Item No.
Slotted Drag Link Socket Bits						
⅜ in	11/16 in	1 ⅛ in	Chrome	No	Proto	**1AH92**
½ in	¾ in	1 ⅝ in	Chrome	No	Proto	**1AM56**
	15/16 in	1 ⅝ in	Chrome	No	Proto	**1AM57**
Slotted Hi-Torque Socket Bits						
⅜ in	#3	1 in	Natural	No	Apex	**22PH14**
	#4	1 in	Natural	No	Apex	**22PH15**
½ in	#7	1 ⅝ in	Natural	No	Apex	**22PH83**
Slotted Socket Bits						
¼ in	3/16 in	1 53/64 in	Chrome	No	Proto	**426H33**
	¼ in	1 3/16 in	Chrome	No	Proto	**426H32**
	9/32 in	2 ¾ in	Chrome	Yes	SK Tools	**20K786**
	5/16 in	2 ¾ in	Chrome	Yes	SK Tools	**20K785**
⅜ in	#4	2 45/64 in	Chrome	Yes	SK Tools	**20K780**
	#5	2 45/64 in	Chrome	Yes	SK Tools	**20K781**
	#6	2 45/64 in	Chrome	Yes	SK Tools	**20K782**
	¼ in	1 13/16 in	Chrome	No	Proto	**426J04**
	¼ in	1 13/16 in	Chrome	No	Westward	**53YV96**
	5/16 in	3 in	Chrome	No	Proto	**1AH91**
	R1	1 55/64 in	Chrome	No	Westward	**3LE45**
½ in	7/16 in	3 5/32 in	Chrome	No	Proto	**1FW96**
	½ in	3 5/32 in	Black Oxide	No	Proto	**1FW95**
	⅝ in	3 5/32 in	Chrome	No	Proto	**1FW94**

Tip Size	Overall Length	Hex Shank Size	Brand	Item No.
Replacement Slotted Insert Bits				
#5	2 in	¼"	SK Tools	**42W612**
3/16 in	2 in	¼"	SK Tools	**42W603**
¼ in	2 in	¼"	SK Tools	**42W604**
9/32 in	2 in	¼"	SK Tools	**42W605**
5/16 in	2 in	¼"	SK Tools	**42W606**

Drag Link 1AH92

Hi-Torque 22PH14

Slotted 20K786

Replacement Slotted Bit 42W612

Phillips Socket Bits & Replacement Inserts

- Alloy material
- Chrome finish

Drive Size	Tip Size	Overall Length	Replaceable Insert	Insert Length	Brand	Item No.
Phillips Socket Bits						
¼ in	#1	1 13/64 in	No	⅝ in	Proto	**426H24**
	#2	1 13/64 in	No	⅝ in	Proto	**426H25**
	#2	1 ½ in	No	⅝ in	Westward	**54TN82**
	#2	2 ¾ in	Yes	11/16 in	SK Tools	**20K634**
	#2	2 ¾ in	Yes	1 37/64 in	SK Tools	**20K489**
⅜ in	#1	2 45/64 in	Yes	11/16 in	SK Tools	**20K775**
	#2	1 13/16 in	No	⅞ in	Westward	**53YV93**
	#2	1 31/32 in	No	1 in	Proto	**426J01**
	#2	2 45/64 in	Yes	11/16 in	SK Tools	**20K776**
	#3	1 13/16 in	No	⅞ in	Westward	**53YV94**
	#3	1 31/32 in	No	1 in	Proto	**426J02**
	#3	2 45/64 in	Yes	11/16 in	SK Tools	**20K777**
	#4	1 31/32 in	No	1 in	Proto	**426J03**
	#4	2 ⅝ in	No	1 ⅝ in	Westward	**54TN68**
	#4	2 45/64 in	Yes	11/16 in	SK Tools	**20K778**
	3/16 in	1 55/64 in	No	63/64 in	Westward	**3LE40**
½ in	#4	2 5/32 in	No	1 in	Proto	**426J05**

Tip Size	Overall Length	Hex Shank Size	Brand	Item No.
Replacement Phillips Insert Bits				
#1	2 in	¼"	SK Tools	**42W608**
#2	1 ¾ in	¼"	SK Tools	**42W610**
#3	2 in	¼"	SK Tools	**42W614**
#4	2 in	5/16"	SK Tools	**42W615**

Phillips 426H24

Replacement Insert 42W608

Socket Adapters

- Square output drive shape

Output Drive Size	Overall Length	Finish	Locking	Brand	Item No.
¼" Drive Socket Adapters					
¼ in	1 11/16"	Black Oxide	Yes	Proto	**19C372**
⅜ in	1"	Black Oxide	No	Proto	**21GR85**
⅜ in	1"	Chrome	Yes	Proto	**426H19**
⅜ in	1"	Chrome	No	Westward	**54PR16**
⅜ in	2"	Chrome	No	SK Tools	**12P878**
⅜" Drive Socket Adapters					
¼ in	1"	Chrome	Yes	Proto	**426H18**
¼ in	1⅛"	Chrome	No	SK Tools	**12P877**
⅜ in	2⅛"	Black Oxide	Yes	Proto	**19C388**
½ in	1 7/16"	Black Oxide	No	Proto	**21GR82**
½ in	1 7/16"	Chrome	Yes	Proto	**426H16**
½ in	1½"	Chrome	No	Westward	**53YV64**
½ in	2"	Chrome	No	SK Tools	**12P881**
½" Drive Socket Adapters					
⅜ in	1⅜"	Chrome	Yes	Proto	**426H17**
⅜ in	1⅜"	Chrome	Yes	Proto	**49XF85**
⅜ in	1½"	Chrome	No	Westward	**53YV65**
⅜ in	2"	Chrome	No	SK Tools	**12P879**
½ in	3"	Black Oxide	Yes	Proto	**19C371**
¾ in	1½"	Chrome	No	Westward	**54PR20**
¾ in	1 11/16"	Black Oxide	No	Proto	**21GR80**
¾ in	1 11/16"	Chrome	Yes	Proto	**426H21**
¾ in	2"	Chrome	No	SK Tools	**12P880**
¾" Drive Socket Adapters					
½ in	1⅞"	Chrome	Yes	Proto	**426H20**
½ in	2⅛"	Chrome	No	Westward	**45J217**
½ in	3"	Chrome	No	SK Tools	**12D253**
1 in	2 7/16"	Chrome	No	Westward	**45J216**
1 in	2½"	Chrome	Yes	Proto	**426H22**
1" Drive Socket Adapters					
¾ in	2⅝"	Chrome	No	Westward	**45J261**
¾ in	2⅞"	Chrome	Yes	Proto	**426H23**
Multi-Size Socket Adapter Sets					
¼ in, ⅜ in, ½ in, ¾ in	1 11/32",-2",-2-1/2"	Chrome	No	SK Tools	**12D255**
¼ in, ⅜ in, ½ in, ¾ in	1 11/32",-2",-2-1/2"	Chrome	No	SK Tools	**12D247**
¼ in, ⅜ in, ½ in	1½"	Chrome	No	Westward	**54PR15**

¼" Drive Adapter 54PR16

Multi-Size Set 12D255

Socket Extensions

- Female input drive

Socket Extension 53YV67

Insulated 53KD72

Nonsparkring 21XU85

Flex & Wobble 12A409

Input Drive Shape	Output Drive Gender	Output Drive Shape	Overall Length	Finish	Locking	Brand	Item No.
Socket Extensions							
¼ in Input Drive Size x ¼ in Output Drive Size							
6-Point	Male	Square	3"	Chrome	No	SK Tools	**13N806**
Square	Female	Square	3"	Chrome	No	Westward	**53YV66**
Square	Female	Square	6"	Chrome	No	Westward	**53YV67**
Square	Male	6-Point	6"	Chrome	No	SK Tools	**13N805**
Square	Male	6-Point	14"	Chrome	No	SK Tools	**13N807**
Square	Male	Square	2"	Chrome	No	Proto	**426G51**
Square	Male	Square	3"	Chrome	No	Proto	**426G53**
Square	Male	Square	4"	Chrome	No	Proto	**483J61**
Square	Male	Square	6"	Chrome	No	Proto	**426G54**
Square	Male	Square	6"	Chrome	Yes	Proto	**5HL99**
Square	Male	Square	10"	Chrome	No	Proto	**426G56**
Square	Male	Square	14 3/32"	Chrome	No	Proto	**426G58**
⅜ in Input Drive Size x ⅜ in Output Drive Size							
6-Point	Male	Square	24"	Chrome	No	SK Tools	**12A418**
6-Point	Male	Square	36"	Chrome	No	SK Tools	**20K367**
Square	Female	Square	3"	Chrome	No	Westward	**53YV69**
Square	Female	Square	6"	Chrome	No	Westward	**53YV70**
Square	Female	Square	10"	Chrome	No	Westward	**54PP98**
Square	Female	Square	18"	Chrome	No	Westward	**54PP99**
Square	Male	6-Point	3"	Chrome	No	SK Tools	**12A414**
Square	Male	6-Point	6"	Chrome	No	SK Tools	**12A415**
Square	Male	6-Point	10"	Chrome	No	SK Tools	**12A412**
Square	Male	6-Point	18"	Chrome	No	SK Tools	**12A417**
Square	Male	Square	3"	Black Oxide	No	Proto	**5F430**
Square	Male	Square	3"	Chrome	No	Proto	**426G61**
Square	Male	Square	6"	Black Oxide	No	Proto	**5F429**
Square	Male	Square	6"	Chrome	No	Proto	**426G62**
Square	Male	Square	8"	Chrome	No	Proto	**426G65**
Square	Male	Square	12"	Black Oxide	No	Proto	**5F432**
Square	Male	Square	12"	Chrome	No	Proto	**426G66**
Square	Male	Square	12"	Chrome	Yes	Proto	**5HM02**
Square	Male	Square	17 3/16"	Chrome	No	Proto	**426G68**
½ in Input Drive Size x ½ in Output Drive Size							
6-Point	Male	Square	10"	Chrome	No	SK Tools	**13N727**
Square	Female	Square	3"	Chrome	No	Westward	**53YV71**
Square	Female	Square	6"	Chrome	No	Westward	**53YV72**
Square	Female	Square	6"	Chrome	No	Westward	**53YV75**
Square	Female	Square	10"	Chrome	No	Westward	**53YV73**
Square	Female	Square	18"	Chrome	No	Westward	**54PR02**
Square	Male		20"	Chrome	No	SK Tools	**20K369**
Square	Male	6-Point	5"	Chrome	No	SK Tools	**13N726**
Square	Male	6-Point	15"	Chrome	No	SK Tools	**13N728**
Square	Male	Square	2½"	Chrome	No	Proto	**426G69**
Square	Male	Square	5"	Black Oxide	No	Proto	**5F482**
Square	Male	Square	5"	Chrome	No	Proto	**426G71**
Square	Male	Square	10"	Black Oxide	No	Proto	**5F483**
Square	Male	Square	10"	Chrome	No	Proto	**426G73**
Square	Male	Square	10"	Chrome	Yes	Proto	**5HM03**
Square	Male	Square	20"	Chrome	No	Proto	**426G75**
Square	Male	Square	36"	Chrome	No	Proto	**426G76**
¾ in Input Drive Size x ¾ in Output Drive Size							
Square	Male	Square	4"	Chrome	No	Proto	**426G77**
Square	Male	Square	4"	Chrome	No	Westward	**5MW43**
Square	Male	Square	8"	Chrome	No	Westward	**5MW44**
Square	Male	Square	8"	Chrome	No	Proto	**426G78**
Square	Male	Square	16"	Chrome	No	Westward	**5MW42**
Square	Male	Square	16"	Chrome	No	Proto	**426G79**

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Socket Extensions

Input Drive Shape	Output Drive Gender	Output Drive Shape	Overall Length	Finish	Locking	Brand	Item No.
1 in Input Drive Size x 1 in Output Drive Size							
Square	Male	Square	6"	Chrome	No	Westward	**45J262**
Square	Male	Square	8"	Chrome	No	Proto	**426G80**
Square	Male	Square	16"	Chrome	No	Westward	**45J264**
Square	Male	Square	17"	Chrome	No	Proto	**426G81**
Nonsparking							
¼ in Input Drive Size x ¼ in Output Drive Size							
Square	Male	Square	4"	Natural	Yes	Ampco	**49UL53**
⅜ in Input Drive Size x ⅜ in Output Drive Size							
Square	Male	Square	4"	Natural	Yes	Ampco	**21XU90**
Square	Male	Square	6"	Insulated	Yes	Ampco	**24Y887**
Square	Male	Square	6"	Natural	Yes	Ampco	**46C072**
½ in Input Drive Size x ½ in Output Drive Size							
Square	Male	Square	3"	Natural	Yes	Ampco	**21XU85**
Square	Male	Square	5"	Natural	Yes	Ampco	**21XU86**
Square	Male	Square	10"	Natural	Yes	Ampco	**46C017**
¾ in Input Drive Size x ¾ in Output Drive Size							
Square	Male	Square	4"	Natural	Yes	Ampco	**21XU87**
Square	Male	Square	8"	Natural	Yes	Ampco	**21XU88**
Square	Male	Square	16"	Natural	Yes	Ampco	**46C048**
Insulated							
¼ in Input Drive Size x ¼ in Output Drive Size							
Hex	Male	Square	6"	Chrome	Yes	Jameson/Itl	**60XN34**
Hex	Male	Square	10"	Chrome	Yes	Jameson/Itl	**60XN35**
Square	Male	Square	2"	Chrome	No	Wiha Tools	**53KD71**
Square	Male	Square	3 15/16"	Chrome	No	Wiha Tools	**53KD72**
⅜ in Input Drive Size x ⅜ in Output Drive Size							
Hex	Male	Square	10"	Chrome	Yes	Jameson/Itl	**60XN32**
Square	Male	Square	5"	Chrome	Yes	Knipex	**2DZA6**
Square	Male	Square	10"	Chrome	Yes	Knipex	**2DZA5**
½ in Input Drive Size x ½ in Output Drive Size							
Square	Male	Square	5"	Chrome	Yes	Knipex	**2DZC1**
Square	Male	Square	5"	Insulated	No	Jameson/Itl	**31CE90**
Square	Male	Square	9 27/32"	Chrome	No	Wiha Tools	**53KD74**
Square	Male	Square	10"	Chrome	Yes	Knipex	**2DZA9**
Square	Male	Square	10"	Insulated	No	Jameson/Itl	**31CE91**
Flex & Wobble							
¼ in Input Drive Size x ¼ in Output Drive Size							
Square	Female	Square	6"	Chrome	No	Westward	**54PR04**
Square	Female	Square	10"	Chrome	No	Westward	**54PR05**
Square	Male	6-Point	1½"	Chrome	No	SK Tools	**13N797**
Square	Male	Square	2"	Chrome	No	Proto	**426G52**
Square	Male	Square	3"	Chrome	No	Proto	**19C384**
Square	Male	Square	4"	Chrome	No	Proto	**426G59**
Square	Male	Square	6¼"	Full Polished	No	Proto	**1AF50**
⅜ in Input Drive Size x ⅜ in Output Drive Size							
6-Point	Male	Square	24"	Chrome	No	SK Tools	**12A409**
Square	Female	Square	3"	Chrome	No	Westward	**33M362**
Square	Female	Square	6"	Chrome	No	Westward	**33M363**
Square	Female	Square	10"	Chrome	No	Westward	**54PR07**
Square	Male	6-Point	18"	Chrome	No	SK Tools	**12A408**
Square	Male	Square	1¾"	Chrome	No	Proto	**1AH80**
Square	Male	Square	3"	Chrome	No	Proto	**426G64**
Square	Male	Square	6"	Chrome	No	Proto	**426G63**
Square	Male	Square	8"	Black Oxide	No	Proto	**1AH79**
½ in Input Drive Size x ½ in Output Drive Size							
Square	Female	Square	18"	Chrome	No	Westward	**54PR11**
Square	Male	6-Point	5"	Chrome	No	SK Tools	**13N732**
Square	Male	Square	2½"	Chrome	No	Proto	**426G70**
Square	Male	Square	5"	Chrome	No	Proto	**426G72**
Square	Male	Square	10"	Chrome	No	Proto	**426G74**
Socket Extension Sets							
Square	Male	Square	2",-3",-6",-8",-10",-14"	Chrome	No	SK Tools	**12D257**
Square	Male	Square	3",-6",-10"	Chrome	No	Westward	**54PP95**
Square	Male	Square	18"	Chrome	No	Westward	**54PR01**

Flex Socket Adapters

- Female input drive
- Male output drive
- Square output drive shape

Input Drive Shape	Overall Length	Finish	Locking	Brand	Item No.
Flex Socket					
¼ in Input Drive Size x ¼ in Output Drive Size					
Hex	1 5/16"	Chrome	No	SK Tools	**13N811**
	1⅜"	Chrome	No	Westward	**54PR13**
Square	1 11/32"	Black Oxide	No	Proto	**21GR84**
	1 11/32"	Chrome	No	Proto	**426J25**
⅜ in Input Drive Size x ⅜ in Output Drive Size					
Hex	1 15/16"	Chrome	No	SK Tools	**12A428**
	¾"	Chrome	No	Westward	**33M361**
Square	2"	Black Oxide	No	Proto	**21GR83**
	2"	Chrome	No	Proto	**426J27**
½ in Input Drive Size x ½ in Output Drive Size					
Hex	2⅝"	Chrome	No	SK Tools	**13N729**
	2¾"	Black Oxide	No	Proto	**21GR81**
Square	2¾"	Chrome	No	Proto	**426J28**
	2⅞"	Chrome	No	Westward	**53YV63**
¾ in Input Drive Size x ¾ in Output Drive Size					
Square	4 5/16"	Chrome	No	Westward	**45J215**
	4"	Chrome	No	Proto	**426J29**
1 in Input Drive Size x 1 in Output Drive Size					
Square	5⅝"	Chrome	No	Westward	**45J259**

Flex Socket 12A428

Nonsparking 49UL59

Flex Socket Set 54PR12

Input Drive Shape	Overall Length	Finish	Locking	Brand	Item No.
Nonsparking					
¼ in Input Drive Size x ¼ in Output Drive Size					
Square	1¼"	Natural	Yes	Ampco	**49UL59**
⅜ in Input Drive Size x ⅜ in Output Drive Size					
Square	2"	Natural	Yes	Ampco	**49UL60**
½ in Input Drive Size x ½ in Output Drive Size					
Square	2¾"	Natural	Yes	Ampco	**49UL61**
¾ in Input Drive Size x ¾ in Output Drive Size					
Square	4"	Natural	Yes	Ampco	**49UL62**
Flex Socket Set					
¼ in, ⅜ in, ½ in Input Drive Size x ¼ in, ⅜ in, ½ in Output Drive Size					
Square	2⅞"	Chrome	No	Westward	**54PR12**

Ratchets

Standard-head spud handle ratchets have a ratchet head on one end of the handle and an opposite end that is tapered to ease the alignment of lugs or drill holes before a fastener is inserted and tightened. **Standard-head hammering ratchets** combine a hammer and ratchet into one tool so they can be used to strike surfaces and turn fasteners. **Standard-head scaffolding ratchets** allow sockets to be connected to the drive with a through-hole and pin design that prevents the socket from separating from the ratchet even when the tool is used as a hammer. They have a hammer tip that protects fasteners from damage when struck. Ratchets are suitable for use in scaffolding and other construction applications. **Offset flex-head ratchets** have a bend in the handle that allows access around obstructions to reach fasteners. They come with a hinge close to the head that allows the head to swivel to access fasteners from multiple angles in tight spaces. **Friction spanner ratchets** have a handle with one end that accepts an insert ring sized to the desired fastener. They act like a ratcheting box wrench except the spanner tool is compatible with a variety of insert rings for a range of fastener head sizes. **Thumbwheel ratchets** are small size ratchets with a drive head and no handle for use in tight spaces. They can be rotated in the palm of the hand or with a thumb to tighten or loosen fasteners.

Standard Head 484N60

Spud Handle 1AM29

Hammering 6XFY6

Scaffolding 4VP08

Quick Release Offset-Head 5TZE4

Friction Spanner No 53PH66

Adjustable Length 55KE96

Offset Flex-Head 12D269

Thumbwheel Ratchet 20K390

Tether Ready 24AJ69

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PROTO® WESTWARD SK® WRIGHT TOOL Wera AMPCO wiha FACOM JAMESON GEDORE

Ratchets

Head Shape	Reversing	Overall Length	Finish	Minimum Arc Swing	Grip Style	Brand	Item No.
Standard-Head Ratchets							
¼ in Drive Size							
Pear	Yes	5 in	Black Oxide	4 °	Ergonomic	Proto	53GL90
	Yes	5 in	Chrome	4 °	Ergonomic	Proto	53GL89
	Yes	5 in	Chrome	4.3 °	Smooth	Westward	53YV76
	Yes	5½ in	Black Oxide	8 °	Ergonomic	Proto	5ME83
	Yes	6 in	Chrome	4 °	Knurled	SK Tools	484N60
	Yes	8 in	Chrome	4 °	Knurled	SK Tools	56FP96
	Yes	9 in	Chrome	4 °	Ergonomic	Proto	53GL91
	Yes	12 in	Chrome	4 °	Knurled	SK Tools	56FP97
Round	No	4½ in	Black Oxide	5 °	Knurled	Proto	19C364
	Yes	4½ in	Chrome	4 °	Knurled	SK Tools	484N63
	Yes	4½ in	Chrome	6 °	Knurled	SK Tools	12D242
	Yes	6 in	Chrome	5 °	Ergonomic	Westward	45AW49 *
	Yes	6½ in	Chrome	6 °	Knurled	SK Tools	12D243
⅜ in Drive Size							
Pear	Yes	4 in	Chrome	4 °	Knurled	SK Tools	56FP98
	Yes	5 in	Chrome	15 °	Knurled	Proto	426G36
	Yes	7 in	Black Oxide	15 °	Knurled	Proto	1AH60
	Yes	7 in	Chrome	15 °	Knurled	Proto	5LP82
	Yes	7 in	Chrome	15 °	Knurled	Proto	426G37
	Yes	7¼ in	Chrome	4 °	Knurled	SK Tools	484N61
	Yes	7½ in	Black Oxide	4 °	Ergonomic	Proto	53GL84
	Yes	7½ in	Chrome	4 °	Ergonomic	Proto	53GL83
	Yes	8¼ in	Chrome	4.3 °	Smooth	Westward	53YV77
	Yes	8½ in	Black Oxide	8 °	Ergonomic	Proto	5ME85
	Yes	8½ in	Chrome	8 °	Ergonomic	Proto	426G38
	Yes	11 in	Black Oxide	8 °	Ergonomic	Proto	19C574
	Yes	11 in	Black Oxide	15 °	Knurled	Proto	19C365
	Yes	11 in	Chrome	4 °	Knurled	SK Tools	56FP99
	Yes	11 in	Chrome	8 °	Ergonomic	Proto	426G42
	Yes	11 in	Chrome	15 °	Knurled	Proto	426G41
	Yes	11¼ in	Chrome	5 °	Smooth	Westward	440G13
	Yes	12½ in	Black Oxide	4 °	Ergonomic	Proto	53GL88
	Yes	12½ in	Chrome	4 °	Ergonomic	Proto	53GL86
	Yes	15 in	Chrome	4 °	Knurled	SK Tools	56FR01
Round	No	7¼ in	Black Oxide	5 °	Knurled	Proto	19C366
	Yes	4¾ in	Chrome	9 °	Knurled	SK Tools	12D264
	Yes	6½ in	Chrome	6 °	Knurled	SK Tools	12D263
	Yes	7¼ in	Chrome	4 °	Knurled	SK Tools	484N64
	Yes	7¼ in	Chrome	5 °	Knurled	Proto	2CEG2
	Yes	7¼ in	Chrome	9 °	Knurled	SK Tools	12D260
	Yes	9 in	Chrome	5 °	Ergonomic	Westward	45AW48 *
	Yes	10¼ in	Chrome	9 °	Knurled	SK Tools	12D261
½ in Drive Size							
Pear	Yes	10 in	Black Oxide	15 °	Knurled	Proto	1AM19
	Yes	10 in	Chrome	15 °	Knurled	Proto	4LV08
	Yes	10 in	Chrome	15 °	Knurled	Proto	426G43
	Yes	10½ in	Black Oxide	4 °	Ergonomic	Proto	53GL77
	Yes	10½ in	Black Oxide	8 °	Ergonomic	Proto	5ME88
	Yes	10½ in	Chrome	4 °	Ergonomic	Proto	53GL76
	Yes	10½ in	Chrome	8 °	Ergonomic	Proto	426G44
	Yes	11 in	Chrome	4.3 °	Smooth	Westward	53YV78
	Yes	12 in	Chrome	4 °	Knurled	SK Tools	484N62
	Yes	15 in	Black Oxide	8 °	Ergonomic	Proto	19C573
	Yes	15 in	Chrome	4 °	Knurled	SK Tools	56FR02
	Yes	15 in	Chrome	8 °	Ergonomic	Proto	426G47
	Yes	16 in	Black Oxide	15 °	Knurled	Proto	1AM22
	Yes	16 in	Chrome	15 °	Knurled	Proto	426G46
	Yes	17½ in	Black Oxide	4 °	Ergonomic	Proto	53GL80
	Yes	17½ in	Chrome	4 °	Ergonomic	Proto	53GL78
	Yes	24 in	Chrome	4 °	Knurled	SK Tools	56FR03
	Yes	25½ in	Black Oxide	4 °	Ergonomic	Proto	53GL82
	Yes	25½ in	Chrome	4 °	Ergonomic	Proto	53GL81
Round	No	9¼ in	Black Oxide	5 °	Knurled	Proto	19C363
	No	15 in	Chrome	5 °	Knurled	Proto	19C370
	Yes	9¼ in	Chrome	5 °	Knurled	Proto	2CEG4
	Yes	10¼ in	Chrome	4 °	Knurled	SK Tools	484N65
	Yes	10¼ in	Chrome	7.5 °	Knurled	SK Tools	12D278
	Yes	15 in	Chrome	7.5 °	Knurled	SK Tools	12D279
¾ in Drive Size							
Pear	Yes	19½ in	Chrome	15 °	—	Westward	45J214
	Yes	20 in	Black Oxide	15 °	Knurled	Proto	1AP26
	Yes	20 in	Satin	15 °	Knurled	Proto	426G49
Round	Yes	24 in	Chrome	8 °	Knurled	Wright Tool	29AT77
1 in Drive Size							
Pear	Yes	6½ in	Chrome	15 °	—	Westward	45J258
Round	Yes	30 in	Black Oxide	8 °	Knurled	Wright	48J313
	Yes	30 in	Chrome	8 °	Knurled	Wright Tool	29AN37
	Yes	42 in	Black Oxide	8 °	Knurled	Wright	48J316
Standard-Head Female Ratchets							
⅜ in Drive Size							
Pear	Yes	7 in	Chrome	15 °	Knurled	Proto	1AH63
½ in Drive Size							
Pear	Yes	16 in	Full Polish	15 °	Knurled	Proto	1AM31
¾ in Drive Size							
Pear	Yes	20 in	Chrome	15 °	Knurled	Proto	1AP28
1 in Drive Size							
Pear	Yes	26 in	Satin	15 °	Knurled	Proto	426G50
Standard-Head Spud Handle Ratchets							
½ in Drive Size							
Pear	Yes	14 in	Black Oxide	6.9 °	Spud Handle	Proto	1AM29
Standard-Head Hammering Ratchets							
½ in Drive Size							
Hammer	Yes	13¼ in	Satin	6 °	Kraftform	Wera	6XFY6
Standard-Head Scaffolding Ratchets							
½ in Drive Size							
Round	Yes	10 in	Chrome	8 °	Knurled	Proto	4VP08

**Pass-through ratchet*

Head Shape	Reversing	Overall Length	Finish	Minimum Arc Swing	Grip Style	Brand	Item No.
Quick Release Standard-Head Ratchets							
¼ in Drive Size							
Pear	Yes	5 in	Chrome	4.3 °	Smooth	Westward	440G11
	Yes	5½ in	Chrome	5 °	Smooth	Westward	4YP73
	Yes	5½ in	Chrome	8 °	Ergonomic	Proto	426G35
	Yes	5½ in	Chrome	8 °	Smooth	Westward	33M357
	Yes	6¾ in	Chrome	4.3 °	Ergonomic	Westward	54RY23
⅜ in Drive Size							
Pear	Yes	4¾ in	Chrome	4.3 °	Smooth	Westward	440G12
	Yes	7¾ in	Chrome	5 °	Smooth	Westward	4YP74
	Yes	7¾ in	Chrome	8 °	Smooth	Westward	33M359
	Yes	8½ in	Chrome	4.3 °	Smooth	Westward	440G15
	Yes	8½ in	Chrome	8 °	Ergonomic	Proto	426G40
	Yes	9 in	Chrome	4.3 °	Ergonomic	Westward	54RY24
	Yes	18 in	Chrome	10 °	Ergonomic	Westward	5TZD5
½ in Drive Size							
Pear	Yes	10 in	Chrome	5 °	Knurled	Westward	1KEJ1
	Yes	10 in	Chrome	5 °	Smooth	Westward	4YP75
	Yes	10½ in	Chrome	8 °	Ergonomic	Proto	426G45
	Yes	11 in	Chrome	4.3 °	Smooth	Westward	440G17
	Yes	11½ in	Chrome	4.3 °	Ergonomic	Westward	54RY25
	Yes	15 in	Chrome	7.5 °	—	Westward	5TZE7
	Yes	15 in	Chrome	8 °	Ergonomic	Proto	426G48
¾ in Drive Size							
Pear	Yes	19¾ in	Chrome	15 °	—	Westward	5MX65
Quick Release Flex-Head Ratchets							
⅜ in Drive Size							
Pear	Yes	9½ in	Chrome	5 °	Smooth	Westward	1NUD5
½ in Drive Size							
Pear	Yes	25 in	Chrome	5 °	Smooth	Westward	440G16
Quick Release Offset-Head Ratchets							
⅜ in Drive Size							
Pear	Yes	8 in	Chrome	5 °	Ergonomic	Westward	5TZE4
½ in Drive Size							
Pear	Yes	10 in	Chrome	5 °	Ergonomic	Westward	5TZE5
Flex-Head Ratchets							
¼ in Drive Size							
Pear	Yes	5 in	Chrome	4 °	Knurled	SK Tools	56FP93
	Yes	7¼ in	Chrome	5 °	Smooth	Westward	440G10
	Yes	9 in	Chrome	4 °	Ergonomic	Proto	53GL92
Round	Yes	6¼ in	Chrome	6 °	Knurled	SK Tools	12D244
	Yes	6½ in	Chrome	5 °	Knurled	Proto	2CEG1
⅜ in Drive Size							
Pear	Yes	7½ in	Chrome	4 °	Ergonomic	Proto	53GL85
	Yes	9½ in	Chrome	5 °	Smooth	Westward	440G14
	Yes	11 in	Chrome	4 °	Knurled	SK Tools	56FP94
	Yes	12½ in	Chrome	4 °	Ergonomic	Proto	53GL87
Round	Yes	5 in	Chrome	9 °	Knurled	SK Tools	12D267
	Yes	6¼ in	Chrome	6 °	Knurled	SK Tools	34NL82
	Yes	8½ in	Chrome	5 °	Knurled	Proto	2CEG3
	Yes	10¾ in	Chrome	9 °	Knurled	SK Tools	12D268
½ in Drive Size							
Pear	Yes	15 in	Chrome	4 °	Knurled	SK Tools	56FP95
	Yes	17½ in	Chrome	4 °	Ergonomic	Proto	53GL79
Round	Yes	17 in	Chrome	5 °	Knurled	Proto	2CEG5
	Yes	17½ in	Chrome	7.2 °	Knurled	SK Tools	12D277
Nonsparking Standard-Head Ratchets							
¼ in Drive Size							
Pear	Yes	5 in	Natural	30 °	—	Ampco	49UL48
⅜ in Drive Size							
Pear	Yes	7¼ in	Natural	30 °	—	Ampco	4RPY1
½ in Drive Size							
Pear	Yes	10 in	Natural	30 °	—	Ampco	1TEF6
¾ in Drive Size							
Pear	Yes	18 in	Natural	30 °	—	Ampco	4RPJ8
Nonsparking Insulated Standard-Head Ratchets							
⅜ in Drive Size							
Round	No	7¾ in	Insulated	30 °	Insulated	Ampco	24Y884
Insulated Standard-Head Ratchets							
¼ in Drive Size							
Pear	Yes	5½ in	Insulated	1.5 °	Insulated	Wiha Tools	26X313
⅜ in Drive Size							
Pear	Yes	7½ in	Insulated	1.5 °	Insulated	Wiha Tools	26X314
Round	No	7 in	Insulated	—	Insulated	Facom	32H625
	Yes	7 in	Insulated	5 °	Insulated	Jameson/Itl	31CE89
½ in Drive Size							
Pear	Yes	10¼ in	Insulated	1.5 °	Insulated	Wiha Tools	26X312
Round	No	10¼ in	Insulated	—	Insulated	Facom	32H623
Friction Spanner Ratchets							
Round	No	10 in	Black Oxide	1 °	One Piece	Gedore	53PH66
	No	16 in	Black Oxide	1 °	One Piece	Gedore	53PH68
	No	20 in	Black Oxide	1 °	One Piece	Gedore	53PH69
	No	25 in	Black Oxide	1 °	One Piece	Gedore	53PH70
	No	30 in	Black Oxide	1 °	One Piece	Gedore	53PH71
Adjustable Length Ratchets							
⅜ in Drive Size							
Pear	Yes	13 in	Chrome	5 °	Ergonomic	Westward	55KE96
½ in Drive Size							
Pear	Yes	17¼ in	Chrome	5 °	Ergonomic	Westward	55KE97
Offset Flex-Head Ratchets							
⅜ in Drive Size							
Round	Yes	10¾ in	Chrome	9 °	Offset Knurled	SK Tools	12D269
Tether-Ready Standard-Head Ratchets							
⅜ in Drive Size							
Pear	Yes	8½ in	Chrome	8 °	Ergonomic	Proto	24AJ69
	Yes	11 in	Chrome	8 °	Ergonomic	Proto	31CL45
½ in Drive Size							
Pear	Yes	10½ in	Chrome	8 °	Ergonomic	Proto	24AJ67
	Yes	15 in	Chrome	8 °	Ergonomic	Proto	24AJ68
Thumbwheel Ratchets							
¼ in Drive Size							
Round	No	1½ in	Chrome	—	Knurled	SK Tools	20K390
⅜ in Drive Size							
Round	No	1½ in	Chrome	—	Knurled	SK Tools	12D265

Breaker Bars

Drive Size	Overall Length	Grip Style	Finish	Brand	Item No.
Flex-Head Breaker Bars					
¼ in	5½ in	Knurled	Chrome	SK Tools	12D245
	5¾ in	Knurled	Chrome	Proto	426G25
⅜ in	8½ in	Knurled	Black Oxide	Proto	1AH70
	8½ in	Knurled	Chrome	Proto	426G26
	10 in	Knurled	Chrome	SK Tools	12D266
	10 in	Smooth	Chrome	Westward	33M360
	12 in	Knurled	Chrome	Proto	1FX33
	15 in	Smooth	Chrome	Westward	5TZD9
½ in	10½ in	Knurled	Chrome	Proto	426G27
	15 in	Smooth	Chrome	Westward	440G01
	15¼ in	Knurled	Chrome	Proto	426G28
	16 in	Knurled	Chrome	SK Tools	12D281
	18 in	Smooth	Chrome	Westward	5TZE0
	18¼ in	Knurled	Black Oxide	Proto	1AM36
	18¼ in	Knurled	Chrome	Proto	426G29
	24 in	Knurled	Chrome	Proto	449N20
	24 in	Knurled	Chrome	SK Tools	12D282
	24 in	Smooth	Chrome	Westward	5TZE1
¾ in	18 in	Knurled	Chrome	SK Tools	12D287
	20 in	Knurled	Black Oxide	Proto	1AP31
	20 in	Knurled	Chrome	Proto	426G30
	40 in	Smooth	Chrome	Westward	440G02
1 in	26 in	Knurled	Chrome	Westward	45J265
	27¼ in	Knurled	Chrome	Proto	426G31
Insulated Breaker Bars					
⅜ in	8½ in	Soft Grip	Chrome	Wiha Tools	53KD70
½ in	10½ in	Soft Grip	Chrome	Wiha Tools	53KD69
L-Style Breaker Bars					
¾ in	16 in	Knurled	Satin	Proto	1AP33
Nonsparking Flex-Head Breaker Bars					
⅜ in	8½ in	Smooth	Natural	Ampco	49UL63
½ in	12 in	Non-slip	Natural	Ampco	46C009
¾ in	18 in	Non-slip	Natural	Ampco	46C027
Nonsparking Sliding T-Style Breaker Bars					
¼ in	4½ in	Smooth	Natural	Ampco	49UL54
⅜ in	8 in	Smooth	Natural	Ampco	49UL55
½ in	12 in	Smooth	Natural	Ampco	49UL56
9/16 in	11 in	Smooth	Natural	Ampco	46C010
	16 in	Smooth	Natural	Ampco	21XU92
¾ in	18 in	Smooth	Natural	Ampco	49UL57
13/16 in	18 in	Smooth	Natural	Ampco	46C031
	25 in	Smooth	Natural	Ampco	21XU91
1 in	22 in	Smooth	Natural	Ampco	49UL58
Sliding T-Style Breaker Bars					
¼ in	4½ in	Smooth	Chrome	Proto	1AF44

Flex-Head
426G25

Insulated
53KD70

Nonsparking Sliding
T-Style
49UL54

Slugging
29AT68

Set
483J81

Drive Size	Overall Length	Grip Style	Finish	Brand	Item No.
⅜ in	8 in	Knurled	Chrome	SK Tools	46C164
	8 in	Smooth	Chrome	Proto	1AH71
½ in	10¾ in	Knurled	Chrome	SK Tools	20K385
	12 in	Smooth	Chrome	Westward	437V03
	12¾ in	Smooth	Chrome	Proto	1AM37
¾ in	18 in	Knurled	Chrome	SK Tools	12A487
	18 in	Smooth	Chrome	Westward	5MZ16
	20 in	Smooth	Chrome	Proto	1AP32
1 in	22 in	Smooth	Chrome	Westward	45J263
	28½ in	Knurled	Chrome	Proto	1AR23
Slugging Breaker Bars					
¾ in	11½ in	Smooth	Black Oxide	Wright Tool	29AT68
1 in	11½ in	Smooth	Black Oxide	Wright Tool	29AT69

Head Shape	Reversing	Overall Length	Minimum Arc Swing	Ratchet Type	Includes	Brand	Item No.
Ratchet & Breaker Bar Sets							
Pear	Yes	1½",-7",-13"	4-°	Spinner,-Standard	⅜ in F x ½ in M Drive Adapter	Proto	483J81
	Yes	5",-9"	4-°	Standard	¼ in Drive 2 in Extension, ¼ in Drive 3 in Extension, ¼ in Drive	Proto	483J78
	Yes	11",-18"	4-°	Standard	½ in Drive 2 ½ in Extension	Proto	483J82

Socket Drivers & Speeder Handles

Connect to sockets to tighten or loosen fasteners.

Speeder handles have a large bend in the shaft for rapid rotation. **Nonsparking speeder handles** won't spark and can install fasteners where flammable vapors or liquids are present. **Socket drivers** tighten small nuts and bolts that only require hand tightening. **Flexible shaft socket drivers** bend around obstructions to reach fasteners. **T-handle insulated socket drivers** protect against electrical shock from live circuits and are suitable for use near electrical components. **Hand impact socket drivers** turn and loosen rusted, frozen, and over-tightened bolts and screws. They are struck with a hammer to rotate the socket and loosen the fastener.

Drive Size	Overall Length	Grip Style	Finish	Brand	Item No.
Speeder Handles					
¼ in	14 ½ in	Knurled	Chrome	SK Tools	20K387
	15 ½ in	Plain	Chrome	Proto	55EN65
⅜ in	16 ¾ in	Knurled	Chrome	SK Tools	20K388
	17 ½ in	Plain	Chrome	Proto	55EN64
½ in	18 in	Knurled	Chrome	SK Tools	20K386
	18 ¼ in	Plain	Chrome	Proto	55EN66
Nonsparking Speeder Handles					
½ in, ¾ in	16 in	Plain	Natural	Ampco	21XX15

Speeder
20K387

Socket Driver
437V02

Flexible Shaft Socket Driver
1AF55

T-Handle
Socket Driver
53KF25

Hand Impact Socket
1AT29

Drive Size	Overall Length	Grip Style	Finish	Brand	Item No.
Socket Drivers					
¼ in	6 ¾ in	Cushion	Chrome	Westward	437V02
	6 in	Molded	Chrome	SK Tools	20K842
	7 in	Hardened Plastic	Chrome	Proto	426J24
Flexible Shaft Socket Drivers					
¼ in	6 ¾ in	Hardened Plastic	Chrome	Proto	1AF55
⅜ in	9 in	Hardened Plastic	Chrome	Proto	1AH86
T-Handle Insulated Socket Drivers					
¼ in	6 ¼ in	Double Insulated	Chrome	Wiha Tools	53KF25
⅜ in	7 ¾ in	Double Insulated	Chrome	Wiha Tools	53KF26
½ in	7 ¾ in	Double Insulated	Chrome	Wiha Tools	53KF27
Hand Impact Socket Drivers					
⅜ in	5 ½ in	Knurled	Black Oxide	Proto	1AT29

4YP59

52CE88

33HD99

All Purpose SAE Impact Socket Sets

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
1/4 in Drive Size						
11	3/16 in to 5/8 in	(11) 6-Point	None	None	Proto	**4JW81**
	3/16 in to 5/8 in	None	(11) 6-Point	None	Proto	**4JW84**
3/8 in Drive Size						
3	1/2 in to 9/16 in	None	(2) 6-Point	None	Milwaukee	**36GG53**
5	3/8 in to 5/8 in	(5) 6-Point	None	None	Proto	**4JW98**
7	3/8 in to 3/4 in	(7) 6-Point	None	None	Proto	**49XF44**
8	5/16 in to 3/4 in	None	(8) 6-Point	None	Milwaukee	**5ECE1**
9	1/4 in to 3/4 in	(9) 6-Point	None	None	Proto	**4JW92**
	1/4 in to 3/4 in	None	(9) 6-Point	None	Proto	**4PKE2**
10	5/16 in to 7/8 in	None	(10) 6-Point	Plastic Case	Westward	**4YP59**
	7/16 in to 7/8 in	None	(8) 6-Point	Plastic Case	DeWalt	**5XFA2**
12	5/16 in to 1 in	None	(12) 6-Point	Organizational Tray	Ability One	**52CE83**
13	1/4 in to 1 in	(5) 12-Point	None	None	Proto	**5C918**
15	1/4 in to 1 in	(15) 6-Point	None	None	Proto	**4JW93**
	1/4 in to 1 in	None	(15) 6-Point	None	Proto	**4JW95**
25	1/4 in to 1 in	(13) 6-Point	(12) 6-Point	None	Proto	**33TA30**
1/2 in Drive Size						
5	3/4 in to 1 in	(5) 6-Point	None	Rail	SK Tools	**12P179**
7	7/16 in to 1/16 in	(7) 6-Point	None	None	Proto	**5PZN5**
8	1/2 in to 15/16 in	None	(8) 6-Point	None	Proto	**5PZN6**
9	3/8 in to 7/8 in	None	(8) 6-Point	None	Milwaukee	**19F372**
10	7/16 in to 7/8 in	None	(8) 6-Point	Plastic Case	DeWalt	**5XFA3**
11	3/8 in to 1 in	(11) 6-Point	None	Organizational Tray	Ability One	**52CE87**
	1/2 in to 1 1/8 in	(11) 6-Point	None	None	Proto	**4JX08**
	1/2 in to 1 1/8 in	(11) 6-Point	None	Plastic Case	Westward	**4YP63**
	1/2 in to 1 1/8 in	None	(11) 6-Point	None	Proto	**4JX11**
	1/2 in to 1 1/8 in	None	(11) 6-Point	Plastic Case	Westward	**4YP62**
13	7/16 in to 1 1/4 in	None	(13) 6-Point	Plastic Case	Westward	**4PRG3**
	1/2 in to 1 1/4 in	None	(13) 6-point	Organizational Tray	Ability One	**52CE88**
14	3/8 in to 3/4 in	(7) 6-Point	(7) 6-Point	Plastic Case	SK Tools	**12D216**
	7/16 in to 1 1/4 in	(14) 6-Point	None	Plastic Case	Westward	**4PRH5**
15	3/8 in to 1 1/4 in	(8) 12-Point	None	None	Proto	**5C914**
	3/8 in to 1 1/4 in	(15) 6-Point	None	None	Proto	**4JX09**
	3/8 in to 1 1/4 in	None	(15) 6-Point	None	Proto	**54JG10**
19	3/8 in to 1 1/4 in	(19) 6-Point	None	None	Proto	**4JX10**
	3/8 in to 1 1/2 in	(19) 6-Point	None	None	Proto	**54JG09**
	3/8 in to 1 1/2 in	None	(19) 6-Point	None	Westward	**4PRC5**
	3/8 in to 1 1/2 in	None	(19) 6-Point	None	Proto	**54JG08**
28	3/8 in to 1 1/4 in	(14) 6-Point	(14) 6-Point	Plastic Case	SK Tools	**12D217**
	7/16 in to 1 1/4 in	(14) 6-Point	(14) 6-Point	Plastic Case	Westward	**4PRG8**
3/4 in Drive Size						
8	7/8 in to 1 1/2 in	None	(8) 6-Point	None	Wright	**48J309**
	1 1/16 in to 2 3/8 in	(8) 6-Point	None	None	Proto	**33HD99**
	1 in to 1 1/2 in	(8) 6-Point	None	None	Proto	**33HD98**
	1 in to 1 1/2 in	None	(8) 6-Point	None	Proto	**33HD97**
9	3/4 in to 1 1/4 in	(9) 12-Point	None	None	Wright	**48J304**
10	3/4 in to 1 5/16 in	(10) 6-Point	None	None	Proto	**1AR78**
11	1 5/16 in to 2 in	(11) 12-Point	None	None	Wright	**48J305**
13	3/4 in to 1 1/2 in	(13) 12-Point	None	None	Proto	**45EK95**
14	3/4 in to 1 5/8 in	(14) 6-Point	None	Metal Box	Wright	**48J307**
	3/4 in to 1 5/8 in	None	(14) 6-Point	Metal Box	Westward	**35HU98**
15	3/4 in to 1 5/8 in	(15) 6-Point	None	None	Proto	**5PZN8**
20	5/8 in to 2 in	(21) 6-Point	None	None	Proto	**45EK96**
1 in Drive Size						
7	3/4 in to 1 1/2 in	(7) 4-Point	None	None	Proto	**45EK90**
8	7/8 in to 1 1/2 in	(8) 6-Point	None	None	Proto	**33HD88**
	7/8 in to 1 1/2 in	None	(18) 6-Point	None	Proto	**33HD83**
	1 1/16 in to 2 3/8 in	(8) 6-Point	None	None	Proto	**33HD89**
9	1 in to 2 in	(9) 6-Point	None	None	Proto	**33HD87**
15	2 1/16 in to 3 in	None	(15) 6-Point	None	Proto	**33HD84**
16	2 1/16 in to 3 in	(16) 6-Point	None	None	Proto	**33HD91**
21	3/4 in to 2 in	(21) 6-Point	None	None	Proto	**33HD92**
27	7/8 in to 3 1/2 in	(27) 6-Point	None	Metal Box	Westward	**21WM43**
37	3/4 in to 3 in	(37) 6-Point	None	None	Proto	**45EK89**

5PZN2

SAE Flex Impact Socket Sets

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
3/8 in Drive Size						
8	5/16 in to 5/8 in	(8) 6-Point	None	None	SK Tools	**12D221**
12	5/16 in to 1 in, 7 to 19 mm	(12) 6-Point	None	Plastic Case	Westward	**4PRE9**
1/2 in Drive Size						
7	7/16 in to 13/16 in	(7) 6-Point	None	None	Proto	**4JX15**
8	1/2 in to 15/16 in	None	(8) 6-Point	None	Proto	**5PZN2**
13	1/2 in to 1 1/4 in	(13) 6-Point	None	None	Proto	**45EK93**

WESTWARD® PROTO® SK®

All Purpose SAE & Metric Impact Socket Sets

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
1/4 in Drive Size						
48	3/16 in to 9/16 in, 4 to 15 mm	(24) 6-Point	(24) 6-Point	Plastic Case	Westward	4PRE3
1/4 in, 3/8 in, 1/2 in Drive Size						
86	10 to 27 mm, 5/16 in to 1 1/4 in	(27) 6-Point	(27) 6-Point	None	Proto	45EK97
3/8 in Drive Size						
18	1/4 in to 3/4 in, 10 to 19 mm	(18) 6-Point	None	None	Proto	49XF45
20	1/4 in to 3/4 in, 7 to 17 mm	(20) 6-Point	None	None	Proto	49XF47
24	1/4 in to 3/4 in, 7 to 19 mm	(24) 6-Point	None	Plastic Case	Westward	4PRF3
25	5/16 in to 1 in, 7 to 19 mm	None	(25) 6-Point	None	Proto	33TA19
40	5/16 in to 3/4 in, 8 to 19 mm	(20) 6-Point	(20) 6-Point	Plastic Case	SK Tools	12D220
3/8 in, 1/2 in Drive Size						
94	5/16 in to 1 1/4 in, 9 to 27 mm	(47) 6-Point	(47) 6-Point	Plastic Case	Westward	45KG81
1/2 in Drive Size						
10	1/2 in to 13/16 in, 13 to 21 mm	None	(10) 6-Point	None	Proto	45EK92
12	3/8 in to 3/4 in, 8 to 19 mm	(12) 6-Point	None	None	Proto	33TA29
30	10 to 24 mm, 3/8 in to 1 1/4 in	(15) 6-Point	(15) 6-Point	None	Proto	33HE18

3/8" & 1/2" Drive Size
45KG81

PROTO® Milwaukee WESTWARD AbilityOne PROGRAM SUPPLIER DIVERSITY WRIGHT TOOL

All Purpose Metric Impact Socket Sets

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
1/4 in Drive Size						
7	7 to 13 mm	(7) 6-Point	None	None	Proto	4JW87
11	5 to 15 mm	None	(11) 6-Point	None	Proto	4JW89
13	4 to 15 mm	(13) 6-Point	None	None	Proto	4JW88
14	4 to 15 mm	—	(14) 6-Point	Socket Rail	Milwaukee	61DN90
	4 to 15 mm	(14) 6-Point	(14) 6-Point	Socket Rail	Milwaukee	61DN89
3/8 in Drive Size						
8	10 to 21 mm	—	(8) 6-Point	Socket Rail	Milwaukee	61DP08
10	10 to 19 mm	(10) 12-Point	None	None	Proto	5PZN0
11	7 to 17 mm	(11) 6-Point	None	None	Proto	4JX02
	7 to 17 mm	None	(11) 6-Point	None	Proto	4JX04
12	8 to 19 mm	None	(12) 6-Point	Plastic Case	Westward	4YP61
	8 to 19 mm	None	(12) 6-Point	None	Proto	4PKE3
14	7 to 21 mm	—	(14) 6-Point	Socket Rail	Milwaukee	61DN94
	7 to 21 mm	(14) 6-Point	(14) 6-Point	Socket Rail	Milwaukee	61DN93
	8 to 24 mm	None	(14) 6-Point	Tray	Ability One	52CE86
19	6 to 24 mm	(19) 6-Point	None	None	Proto	4JX03
	6 to 24 mm	None	(19) 6-Point	None	Proto	4JX05
1/2 in Drive Size						
3	17 to 21 mm	—	(3) 6-Point	None	Milwaukee	61DP11
5	17 to 24 mm	None	(5) 6-Point	None	Proto	45EK91
10	10 to 19 mm	(10) 6-Point	None	None	Proto	4JX17
	10 to 17 mm	None	(10) 6-Point	None	Proto	4JX20
14	10 to 27 mm	—	(14) 6-Point	Plastic Case	Milwaukee	61DP01
	10 to 27 mm	(14) 6-Point	(14) 6-Point	Plastic Case	Milwaukee	61DN99
	10 to 27 mm	None	(14) 6-Point	Plastic Case	Westward	4PRG5
15	10 to 24 mm	(15) 6-Point	None	None	Proto	4JX18
	10 to 24 mm	(15) 6-point	None	Tray	Ability One	52CE89
	10 to 24 mm	None	(15) 6-Point	None	Proto	4PKA7
	10 to 24 mm	None	(15) 6-point	Tray	Ability One	52CE90
	10 to 24 mm	None	(15) 6-Point	None	Proto	4JX21
18	10 to 27 mm	None	(18) 6-Point	None	Proto	5PZN4
25	8 to 36 mm	(25) 6-Point	None	None	Proto	4JX19
	8 to 36 mm	None	(25) 6-Point	None	Proto	4JX22
26	10 to 36 mm	(26) 6-Point	None	Plastic Case	Westward	4PRG6
	10 to 36 mm	None	(26) 6-Point	Plastic Case	Westward	4PRG7
29	8 to 36 mm	—	(29) 6-Point	Plastic Case	Milwaukee	61DP02
30	8 to 24 mm	(16) 6-Point	(14) 6-Point	None	Proto	45EK94
3/4 in Drive Size						
7	26 to 38 mm	None	(7) 6-Point	None	Proto	33HD96
8	26 to 38 mm	—	(8) 6-Point	Plastic Case	Milwaukee	61DP07
	26 to 38 mm	(8) 6-Point	(8) 6-Point	Plastic Case	Milwaukee	61DP06
9	27 to 41 mm	None	(9) 6-Point	Metal Box	Westward	21WL54

3/8" Drive Size
4JX02

1" Drive Size
33HD93

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
10	19 to 33 mm	None	(10) 6-Point	None	Proto	49XF43
12	19 to 46 mm	(12) 6-Point	None	None	Proto	35GM74
14	19 to 41 mm	None	(14) 6-Point	None	Wright	48J312
15	19 to 43 mm	None	(15) 12-Point	None	Proto	33HD95
19	17 to 41 mm	(19) 6-Point	None	None	Wright	48J311
21	19 to 41 mm	(21) 6-Point	None	None	Proto	5PZN7
26	17 to 50 mm	(26) 12-Point	None	None	Proto	33HD94
1 in Drive Size						
8	27 to 41 mm	None	(8) 6-Point	None	Proto	33HD93

PROTO®

Metric Flex Impact Socket Sets

- Container not included

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Item No.
1/4 in Drive Size				
9	5.5 to 13 mm	(9) 12-Point	None	5PZL6
3/8 in Drive Size				
10	8 to 18 mm	(10) 6-Point	None	5PZL7
	10 to 19 mm	None	(10) 6-Point	5PZL8
1/2 in Drive Size				
7	13 to 19 mm	(7) 6-Point	None	5PZN1
	13 to 19 mm	None	(7) 6-Point	5PZN3

5PZN3

30TK40

Bolt Extraction Impact Socket Sets

GEARWRENCH® Milwaukee IRWIN®

Sockets fit around, bite into, and firmly grip the fastener head as the socket is turned and the fastener is removed.

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Deep Socket Count/Style	Container Type	Brand	Item No.
¼ in, ⅜ in Drive Size						
8	7 to 16 mm	(8) 7-Point	None	Rail	Gearwrench	**741M22**
15	¼ in to 11/16 in, 7 to 19 mm	(15) 7-Point	None	Plastic Case	Gearwrench	**741M23**
28	¼ in to 9/16 in, 7 to 17 mm	(28) 7-Point	None	Rail	Gearwrench	**741M24**
⅜ in Drive Size						
5	¼ in to ½ in	(5) 6-Point	None	None	Milwaukee	**437V32**
6	¼ in to ½ in, 6 to 11 mm	(6) Extractor	None	None	IRWIN	**30TK33**
6	¼ in to ½ in, 6 to 11 mm	None	(6) Extractor	None	IRWIN	**30TK37**
8	¼ in to ½ in, 6 to 12 mm	(8) Extractor	None	Plastic Case	IRWIN	**30TK40**
8	¼ in to 9/16 in, 6 to 14 mm	(8) Extractors	None	Plastic Case	IRWIN	**30TK38**
½ in Drive Size						
6	¾ in to 1 in	Bolt Extractor	None	None	IRWIN	**30TK35**
19	¼ in to 1 in	(17) Extractors	None	Plastic Case	IRWIN	**30TK42**

415J01

All Purpose External Torx Impact Socket Sets

PROTO® SK® OTC®

No. of Pieces	Socket Size Range	Standard Socket Count/Style	Container Type	Brand	Item No.
¼ in Drive Size					
7	E4 to E12	(7) External Torx	None	Proto	**4JW86**
¼ in, ⅜ in Drive Size					
10	E4 to E16	(10) External Torx	None	Proto	**33TA28**
¼ in, ⅜ in, ½ in Drive Size					
53	E4 to E24, T6 to T70, TR8 to TR60	(53) 6-Point	Plastic Case	OTC	**415J01**
⅜ in Drive Size					
7	E6 to E16	(7) External Torx	None	Proto	**4JW97**
Torx® - SAE					
13	E4 to E24	(13) 6-Point	Rail	SK Tools	**42W710**

1AW22

22FG57

PROTO® Milwaukee DEWALT® WESTWARD® WRIGHT TOOL Innovation and Performance Since 1927

All Purpose SAE Impact Sockets

Socket Size	Brand	Socket Depth: Deep Overall Length	Deep Item No.	Standard Overall Length	Standard Item No.
¼ in Drive Size					
6-Point					
¼ in	Proto	—	—	⅞ in	**2MA21**
5/16 in	Proto	—	—	15/16 in	**2MA22**
⅜ in	Proto	—	—	15/16 in	**2MA23**
⅜ in Drive Size					
6-Point					
5/16 in	Proto	2 ¾ in	**1AT39**	—	—
⅜ in	Proto	2 ¾ in	**1AT40**	1 3/32 in	**1AT32**
7/16 in	Proto	2 ¾ in	**1AT41**	1 3/32 in	**1AT33**
½ in	DeWalt	2 ½ in	**2KLN2**	—	—
	Proto	2 ¾ in	**1AT42**	1 3/32 in	**1AT34**
	Westward	—	—	1 3/16 in	**4LYV2**
9/16 in	Proto	2 ¾ in	**1AT43**	1 3/32 in	**1AT35**
¾ in	Milwaukee	2 ½ in	**5ECA1**	—	—
	Proto	2 ¾ in	**1AT46**	1 3/32 in	**1AT38**
15/16 in	Proto	2 ¾ in	**1FK06**	—	—
½ in Drive Size					
5-Point					
13/16 in	Milwaukee	—	**55EA52**	—	—
6-Point					
½ in	Proto	3 ¼ in	**1AW36**	—	—
9/16 in	Proto	3 ¼ in	**1AW37**	1 ½ in	**1AW22**
	Westward	3 17/64 in	**4LXN4**	—	—
11/16 in	Proto	3 ¼ in	**1AW39**	—	—
¾ in	Proto	3 ¼ in	**1AW40**	1 ½ in	**1AW25**
	Westward	3 17/64 in	**4LXL4**	1 ½ in	**4LXU6**
13/16 in	Proto	3 ¼ in	**1AW41**	—	—
⅞ in	Proto	3 ½ in	**1AW42**	1 ⅝ in	**1AW27**
	Westward	3 35/64 in	**4LXN2**	—	—
15/16 in	Proto	3 ½ in	**1AW43**	1 ¾ in	**1AW28**
	Westward	3 35/64 in	**4LXJ7**	1 ½ in	**4LXT2**
1 in	Proto	3 ½ in	**1AW44**	1 ¾ in	**1AW29**
1 1/16 in	Proto	3 ½ in	**1AW45**	1 ¾ in	**1AW30**
	Westward	2 53/64 in	**4LXG3**	—	—
1⅛ in	Proto	3 ½ in	**4PKD2**	2 in	**1AW31**
	Westward	2 53/64 in	**4LXG5**	1 9/16 in	**4LXN8**
1¼ in	Proto	3 ½ in	**1FL76**	2 in	**1AW33**
	Westward	3 5/64 in	**4LXH5**	—	—
1 5/16 in	Proto	3 ½ in	**1FL74**	2 in	**1FK52**
	Westward	3 35/64 in	**4LXJ8**	—	—
1⅜ in	Proto	3 ½ in	**1FL72**	—	—
1 7/16 in	Proto	3 ½ in	**1FL70**	2 15/64 in	**1FK47**
	Westward	3 35/64 in	**4LXK2**	—	—
1½ in	Proto	3 ½ in	**1FL68**	2 15/64 in	**1FK45**
	Westward	—	—	1 15/16 in	**4LXP8**
8-Point					
⅝ in	Proto	—	—	1 ½ in	**1AX12**
12-Point					
9/16 in	Proto	3 ¼ in	**1AX45**	—	—
¾ in	Proto	3 ¼ in	**1AX48**	—	—
15/16 in	Proto	3 ½ in	**1AX51**	—	—
1½ in	Proto	3 ½ in	**1FL69**	—	—
¾ in Drive Size					
6-Point					
15/16 in	Proto	—	—	2 in	**1AX84**
1 1/16 in	Proto	3 ¼ in	**1ACF0**	—	—
1⅛ in	Proto	3 ¼ in	**1ACF1**	2 3/16 in	**1AX87**
1¼ in	Proto	4 in	**1ACN6**	2 3/16 in	**1AX89**
	Proto	3 ¼ in	**1ACF3**	—	—
1 5/16 in	Proto	3 ¼ in	**1ACF4**	2 3/16 in	**1AX90**
1 7/16 in	Proto	3 ½ in	**1ACF6**	2 5/16 in	**1AX92**
1½ in	Proto	3 ½ in	**1ACP0**	2 ⅜ in	**1AX93**
	Westward	3 ½ in	**21WN12**	—	—
1⅝ in	Proto	3 3/16 in	**1ACF9**	2 7/16 in	**1AX95**
	Westward	3 ½ in	**21WN13**	—	—
	Wright Tool	3 ½ in	**29AM66**	—	—
1 11/16 in	Proto	3 ⅞ in	**1ACH0**	2 ⅝ in	**1AX96**
1¾ in	Proto	3 ⅞ in	**1ACH1**	—	—
1 13/16 in	Proto	3 ⅞ in	**1ACH2**	2 ⅝ in	**1AX98**
1⅞ in	Proto	4 1/16 in	**1ACH3**	2 13/16 in	**1AX99**
	Westward	3 ½ in	**21WN15**	—	—
2 in	Proto	4 1/16 in	**1ACH4**	2 13/16 in	**1ACC1**
2 3/16 in	Proto	—	—	3 ⅛ in	**1GG72**
2¼ in	Proto	—	—	3 ¼ in	**1GG71**
	Wright Tool	4 ¼ in	**29AM76**	—	—
2⅜ in	Proto	—	—	3 ⅜ in	**1GG70**
	Wright Tool	4 ¼ in	**29AM78**	—	—
2¾ in	Wright Tool	4 ½ in	**29AM84**	—	—
31-mm	Proto	—	—	2 7/32 in	**5F340**
1 in Drive Size					
4-Point					
¾ in	Proto	—	—	2 ½ in	**1AFP4**
13/16 in	Proto	—	—	2 ½ in	**1AFP5**
⅞ in	Proto	—	—	2 ½ in	**1AFP6**
15/16 in	Proto	—	—	2 ½ in	**1AFP7**
1 in	Proto	—	—	2 ½ in	**1AFP8**
1⅛ in	Proto	—	—	2 ½ in	**10E393**
1½ in	Proto	—	—	2 ½ in	**10E394**
6-Point					
¾ in	Proto	4 in	**21GR88**	2 7/16 in	**1ACW2**
15/16 in	Proto	—	—	2 ½ in	**1ACW5**
1 1/16 in	Proto	3 ¾ in	**1AFK7**	2 ⅝ in	**1ACW7**
1⅛ in	Proto	3 ¾ in	**1AFK8**	2 ⅝ in	**1ACW8**
1 3/16 in	Proto	3 ¾ in	**1AFK9**	2 ⅝ in	**1ACW9**
1¼ in	Proto	3 ¾ in	**1AFL0**	2 ⅝ in	**1AFC0**
1 5/16 in	Proto	3 ¾ in	**1AFL1**	2 ¾ in	**1AFC1**
	Wright Tool	4 in	**29AR04**	—	—
1 7/16 in	Proto	4 in	**1AFL3**	2 7/16 in	**1AFC3**
1½ in	Proto	4 in	**1AFL4**	2 ⅝ in	**1AFC4**
	Wright Tool	4 in	**29AR07**	—	—
1 9/16 in	Proto	4 in	**1AFL5**	—	—
1⅝ in	Proto	4 in	**1AFL6**	2 ⅝ in	**1AFC6**
	Westward	—	—	2 11/16 in	**21WN25**
	Wright Tool	4 in	**29AR09**	—	—
1 11/16 in	Proto	4 1/16 in	**10E395**	—	—
1¾ in	Proto	4 1/16 in	**1AFL7**	2 13/16 in	**1AFC8**
1 13/16 in	Proto	4 1/16 in	**1AFL8**	2 13/16 in	**1AFC9**
	Wright Tool	—	—	2 11/16 in	**29AP22**
1⅞ in	Proto	4 ¼ in	**1AFL9**	3 in	**1AFF0**
	Wright Tool	4 3/16 in	**29AR13**	2 13/16 in	**29AP23**
1 15/16 in	Proto	4 ¼ in	**1AFM0**	3 in	**1AFF1**
2 in	Proto	4 ¼ in	**1AFM1**	3 in	**1AFF2**
	Westward	—	—	2 63/64 in	**21WN28**
	Wright Tool	4 5/16 in	**29AR15**	—	—

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CONTINUED

All Purpose SAE Impact Sockets

Socket Size	Brand	Socket Depth: Deep Overall Length	Deep Item No.	Standard Overall Length	Standard Item No.
1 in Drive Size (Cont.)					
6-Point (Cont.)					
2 1/16 in	Proto	4 ¼ in	10E396	3 3/32 in	1AFF3
2⅛ in	Proto	4 ½ in	1AFM2	3 3/32 in	1AFF4
2 3/16 in	Proto	4 ½ in	1AFM3	3 ⅛ in	1AFF5
	Wright Tool	—	—	3 3/16 in	29AP28
2¼ in	Proto	4 ½ in	1AFM4	3 ¼ in	1AFF6
	Westward	—	—	3 5/16 in	21WN29
	Wright Tool	4 21/32 in	29AR19	—	—
2 5/16 in	Proto	4 ¾ in	1AFM5	3 5/16 in	1AFF7
2⅜ in	Proto	4 ¾ in	1AFM6	3 ⅜ in	1AFF8
	Westward	—	—	3 15/32 in	21WN30
	Wright Tool	4 ¾ in	29AR21	—	—
2 7/16 in	Proto	—	—	3 ⅜ in	1AFF9
	Wright Tool	4 ¾ in	29AR22	—	—
2½ in	Proto	4 ⅞ in	4PKC6	3 ½ in	1AFH0
2 9/16 in	Proto	5 in	1GG67	3 ½ in	1AFH1
	Westward	—	—	3 ⅝ in	21WM33
	Wright Tool	4 ⅞ in	29AR24	—	—
2⅝ in	Proto	5 in	4PKC7	3 ⅝ in	1AFH2
	Westward	—	—	3 ⅝ in	21WM34
2 11/16 in	Proto	—	—	3 21/32 in	1AFH3
2¾ in	Proto	5 in	1GG66	3 ¾ in	1AFH4
	Westward	—	—	3 ¾ in	21WM35
	Wright Tool	5 in	29AR26	3 9/16 in	29AP37
2 13/16 in	Proto	—	—	3 13/16 in	1AFH5
2⅞ in	Proto	—	—	3 ⅞ in	1AFH6
2 15/16 in	Proto	5 in	21GR92	3 ⅞ in	1AFH7
3 in	Proto	5 in	21GR93	4 in	1AFH8
	Westward	—	—	3 15/16 in	21WM37
	Wright Tool	5 in	29AR30	3 ⅞ in	29AP41
3⅛ in	Proto	5 ½ in	21GR94	4 1/16 in	1AFH9
	Wright Tool	5 ½ in	29AR31	3 15/16 in	29AP42
3¼ in	Proto	5 ⅝ in	21GR95	4 ⅜ in	1AFK0
	Westward	5 5/16 in	21WM71	—	—
3⅜ in	Proto	5 ¾ in	21GR96	4 7/16 in	1AFK1
	Wright Tool	5 ¾ in	29AR33	—	—
3½ in	Proto	6 in	21GR97	4 ½ in	1AFK2
	Wright Tool	6 in	29AR34	4 5/16 in	29AP44
3⅝ in	Proto	—	—	4 ¾ in	1GG65
3¾ in	Proto	6 ¼ in	21GR99	—	—
	Wright Tool	—	—	5 in	29AP46
3⅞ in	Proto	6 ⅜ in	21GT01	5 in	1GG64
4 in	Proto	—	—	5 ½ in	1GG63
4½ in	Proto	—	—	6 in	1GG60
8-Point					
⅞ in	Wright	3 in	48J330	—	—
1¼ in	Proto	—	—	2 13/16 in	10H790
1⅜ in	Wright	—	—	2 11/16 in	48J321
1 7/16 in	Proto	—	—	2 13/16 in	10H793
1½ in	Proto	—	—	2 13/16 in	10H794
1⅝ in	Proto	—	—	3 ½ in	10H795
	Wright	3 ¾ in	48J336	3 ½ in	48J323
1 11/16 in	Proto	—	—	3 ½ in	10H796
1¾ in	Proto	—	—	3 ½ in	10H797
1 13/16 in	Proto	—	—	3 ½ in	10H798
	Wright	—	—	3 ½ in	48J324
1⅞ in	Proto	—	—	3 ½ in	10H799
2 in	Proto	—	—	3 ½ in	10H801
2 3/16 in	Proto	—	—	3 ½ in	10H802
12-Point					
1 in	Proto	—	—	2 17/32 in	21GT27
1¼ in	Proto	—	—	2 11/16 in	21GT30
1⅜ in	Proto	—	—	2 11/16 in	21GT32
1½ in	Proto	—	—	2 11/16 in	21GT34
1⅝ in	Proto	—	—	2 11/16 in	21GT35
1 11/16 in	Proto	—	—	2 11/16 in	21GT36
1¾ in	Proto	—	—	2 11/16 in	21GT37
2 in	Proto	—	—	3 in	21GT39
2⅜ in	Proto	—	—	3 ¼ in	21GT42
1½ in Drive Size					
6-Point					
1⅝ in	Wright	6 11/16 in	22FG57	—	—
1⅞ in	Proto	—	—	3 11/32 in	1AFW0
2 3/16 in	Proto	—	—	3 ⅝ in	1AFW5
2⅜ in	Proto	—	—	3 ⅞ in	1AFW8
2 9/16 in	Proto	—	—	4 in	1AHC1
2¾ in	Proto	6 ⅛ in	1AHM7	4 ¼ in	1AHC4
2 15/16 in	Proto	—	—	4 ½ in	1AHC7
3 in	Proto	6 ⅜ in	1AHN1	—	—
3⅛ in	Proto	6 ⅜ in	1AHN3	4 ⅝ in	1AHF0
3½ in	Proto	6 ½ in	1AHN9	4 31/32 in	1AHF6
3⅝ in	Proto	6 ¾ in	1AHP1	—	—
3¾ in	Wright Tool	—	—	5 ¼ in	29AT33
3⅞ in	Proto	6 ¾ in	1AHP5	5 ½ in	1AHH2
4¼ in	Proto	—	—	5 ¾ in	1AHH8
5 in	Proto	—	—	6 ¾ in	4PKA8
5⅜ in	Wright Tool	—	—	6 ½ in	29AT52
2½ in Drive Size					
6-Point					
3⅞ in	Proto	—	—	6 ¼ in	4UHN9
4¼ in	Proto	—	—	6 ¾ in	4UHP2
5⅜ in	Proto	—	—	7 ¾ in	4UHJ3
6⅞ in	Wright	—	—	8 ½ in	48J367
#5 Drive Size					
6-Point					
1 5/16 in	Proto	—	—	3 ¼ in	1AKH6
2 in	Proto	—	—	3 17/32 in	1AKK7
2 3/16 in	Proto	—	—	3 11/16 in	1AKL0
2⅜ in	Proto	—	—	3 57/64 in	1AKL3
3 in	Proto	—	—	4 39/64 in	1AKM1
3⅛ in	Proto	—	—	4 39/64 in	1AKM2

Flex SAE Impact Sockets

Socket Size	Tether Ready	Brand	Socket Depth: Standard Overall Length	Standard Item No.	Deep Overall Length	Deep Item No.
¼" Drive Size						
12-Point						
½"	No	Proto	1 ⅝ in	4UHR6	—	—
⅜" Drive Size						
6-Point						
½"	No	Westward	1 3/16 in	4LYV2	—	—
¼" Drive Size						
12-Point						
¼"	No	Proto	1 5/16 in	4UHR2	—	—
5/16"	No	Proto	1 5/16 in	4UHR3	—	—
⅜" Drive Size						
6-Point						
½"	No	Proto	2 7/16 in	4UHU1	—	—
	No	Westward	2 3/32 in	4LYH9	—	—
9/16"	No	Proto	2 15/32 in	4UHU2	—	—
	No	Westward	2 3/32 in	4LYK1	—	—
¾"	No	Proto	2 15/32 in	4UHU5	—	—
	No	Westward	2 3/32 in	4LYJ4	—	—
½" Drive Size						
6-Point						
½"	No	Proto	2 9/16 in	4HVA9	3 ½ in	4HVE6
9/16"	No	Proto	2 9/16 in	4HVC1	3 ½ in	4HVE7
	No	Westward	2 9/16 in	4LXG2	—	—
⅝"	No	Proto	2 9/16 in	4HVC2	3 ½ in	4HVE8
11/16"	No	Proto	—	—	3 ½ in	4HVE9
	No	Westward	2 9/16 in	4LXD5	—	—
¾"	No	Proto	2 9/16 in	4HVC4	3 ½ in	4HVF1
	No	Westward	2 9/16 in	4LXF7	—	—
⅞"	No	Proto	2 9/16 in	4HVC6	3 ½ in	4HVF3
15/16"	No	Proto	2 9/16 in	4HVC7	—	—
	No	Westward	2 9/16 in	4LXE5	—	—
1"	No	Proto	2 53/64 in	4HVC8	—	—
1 1/16"	No	Proto	2 59/64 in	4HVC9	—	—
	No	Westward	2 9/16 in	4LXD6	—	—
1⅛"	No	Proto	3 in	4HVD1	—	—
	No	Westward	2 49/64 in	4LXD8	—	—
1 3/16"	No	Proto	3 3/32 in	4HVD2	—	—
1¼"	No	Proto	3 11/64 in	4HVD3	—	—
	No	Westward	2 53/64 in	4LXD7	—	—
1 5/16"	No	Proto	3 ¼ in	4HVD4	—	—

4LXD5

Nonsparking SAE Impact Sockets

49UK80

Socket Size	Tether Ready	Socket Depth: Standard Overall Length	Standard Item No.	Deep Overall Length	Deep Item No.
½" Drive Size					
4-Point					
1⅝"	No	2 1/16 in	49UK93	—	—
6-Point					
¾"	No	—	—	3 3/16 in	49UL32
⅞"	No	—	—	3 3/16 in	49UL34
15/16"	No	1 ½ in	49UK80	3 3/16 in	49UL35
1 1/16"	No	—	—	3 3/16 in	49UL37
1⅛"	No	—	—	3 3/16 in	49UL38
1¼"	No	—	—	3 3/16 in	49UL40
1 5/16"	No	—	—	3 3/16 in	49UL41
1 7/16"	No	1 ⅞ in	49UK88	3 3/16 in	49UL43
1½"	No	2 3/16 in	49UK89	3 3/16 in	49UL44
1" Drive Size					
4-Point					
1 7/16"	No	2 ¾ in	49UK97	—	—
1⅝"	No	2 ⅞ in	49UK99	—	—
8-Point					
1 5/16"	No	—	—	3 ½ in	49UL47
2½"	No	2 ¾ in	49UK98	—	—

29AR54

PROTO® WESTWARD WRIGHT TOOL

All Purpose Metric Impact Sockets

- 6-Point

Socket Size	Tether Ready	Socket Depth Standard Overall Length	Standard Brand	Standard Item No.	Deep Overall Length	Deep Brand	Deep Item No.
1/4" Drive Size							
5-mm	No	7/8"	Proto	**1FP49**	2"	Proto	**10E362**
5.5-mm	No	7/8"	Proto	**2MA37**	—	—	—
7-mm	No	15/16"	Proto	**2MA39**	1 11/16"	Westward	**4LXX8**
	No	—	—	—	2"	Proto	**1FR21**
8-mm	No	7/8"	Proto	**1AT01**	1 11/16"	Westward	**4LXX9**
	No	15/16"	Proto	**2MA40**	2"	Proto	**1FR14**
10-mm	No	7/8"	Proto	**1AT03**	1 11/16"	Westward	**4LXV9**
	No	15/16"	Proto	**2MA41**	2"	Proto	**1FR03**
	No	1 31/32"	Westward	**4LXY6**	—	—	—
12-mm	No	—	—	—	2"	Proto	**1FP85**
13-mm	No	1 57/64"	Westward	**4LYL4**	2"	Proto	**1FP82**
3/8" Drive Size							
6-mm	No	1 3/32"	Proto	**1FN64**	2 3/4"	Proto	**1FN90**
7-mm	No	1 3/32"	Proto	**1AT51**	2 3/4"	Proto	**1FN88**
8-mm	No	15/16"	Proto	**1AT52**	2"	Proto	**10H806**
	No	1 3/16"	Westward	**4LYT4**	2 3/4"	Proto	**5F485**
10-mm	No	15/16"	Proto	**1AT54**	2 3/4"	Proto	**1AT62**
	No	1 3/16"	Westward	**4LYT6**	1 3/4"	Proto	**10H808**
11-mm	No	15/16"	Proto	**1AT55**	2 3/4"	Proto	**1AT63**
	No	1 3/16"	Westward	**4LYT7**	—	—	—
12-mm	No	15/16"	Proto	**1AT56**	2 3/4"	Proto	**1AT64**
	No	1 3/16"	Westward	**4LYT8**	2"	Proto	**10H810**
13-mm	No	1 3/32"	Proto	**1AT57**	2 3/4"	Proto	**1AT65**
	No	1 3/16"	Westward	**4LYT9**	2"	Proto	**10H811**
	No	1 13/64"	Proto	**2MA66**	—	—	—
14-mm	No	1"	Proto	**1AT58**	2 3/4"	Proto	**1AT66**
	No	1 3/16"	Westward	**4LYU1**	2"	Proto	**10H812**
15-mm	No	1 1/8"	Proto	**1AT59**	2"	Proto	**10H813**
	No	—	—	—	2 3/4"	Proto	**1AT67**
16-mm	No	1 1/8"	Proto	**5F495**	2"	Proto	**10H814**
	No	—	—	—	2 3/4"	Proto	**5F486**
17-mm	No	1 1/8"	Proto	**1AT60**	2 25/32"	Proto	**5F487**
	No	—	—	—	2"	Proto	**10H815**
18-mm	No	1 1/8"	Proto	**5F496**	2 25/32"	Proto	**5F488**
	No	—	—	—	2"	Proto	**10H816**
19-mm	No	1 1/8"	Proto	**5F497**	2 25/32"	Proto	**5F489**
	No	1 3/16"	Westward	**4LYU6**	2"	Proto	**10H817**
20-mm	No	1 3/32"	Proto	**5F498**	2 3/4"	Proto	**10E368**
21-mm	No	1 3/32"	Proto	**5F499**	2 3/4"	Proto	**5F491**
22-mm	No	1 3/32"	Proto	**5F500**	2 3/4"	Proto	**5F492**
24-mm	No	1 3/32"	Proto	**5F502**	—	—	—
3/4" Drive Size							
17-mm	No	1 15/16"	Proto	**1ACH5**	—	—	—
18-mm	No	1 15/16"	Wright Tool	**29AM24**	—	—	—
19-mm	No	1 15/16"	Proto	**1ACH6**	3 7/64"	Proto	**21GT69**
	No	—	—	—	3 1/4"	Proto	**1ACL5**
20-mm	No	2"	Proto	**21GT45**	—	—	—
21-mm	No	—	—	—	3 1/4"	Proto	**1ACL6**
	No	—	—	—	3 1/8"	Wright Tool	**29AM99**
22-mm	No	2"	Proto	**1ACH8**	3 1/4"	Proto	**1ACL7**
24-mm	No	2"	Wright Tool	**29AM30**	3 7/64"	Proto	**21GT73**
	No	2"	Proto	**1ACK0**	3 1/4"	Proto	**1ACL8**
27-mm	No	2 1/16"	Proto	**1ACK2**	3 1/4"	Proto	**1ACM0**
	No	2 1/8"	Proto	**21GT52**	—	—	—
28-mm	No	2 3/16"	Proto	**1ACK3**	—	—	—
30-mm	No	2 1/8"	Proto	**21GT55**	3 1/2"	Wright Tool	**29AN06**
	No	2 1/8"	Wright Tool	**29AM35**	3 1/2"	Westward	**21WN19**
	No	2 3/16"	Proto	**1ACK4**	3 1/4"	Proto	**1ACM1**
	No	—	—	—	3 1/2"	Proto	**21GT76**
31-mm	No	—	—	—	3 1/2"	Wright Tool	**29AN07**
32-mm	No	2 3/16"	Proto	**1ACK5**	3 1/2"	Proto	**21GT77**
	No	2 1/8"	Wright Tool	**29AM37**	3 1/2"	Westward	**21WL41**
	No	2 1/8"	Proto	**21GT57**	3 1/4"	Proto	**1ACM2**
33-mm	No	2 3/16"	Proto	**1ACK6**	3 1/2"	Proto	**21GT78**
	No	—	—	—	3 1/4"	Proto	**5F341**
	No	—	—	—	3 1/2"	Westward	**21WL42**
	No	—	—	—	3 1/2"	Wright Tool	**29AN09**
34-mm	No	2 1/4"	Proto	**1ACK7**	3 1/2"	Wright Tool	**29AN10**
35-mm	No	—	—	—	3 1/2"	Westward	**21WL44**
36-mm	No	2 5/16"	Proto	**1ACK8**	3 1/2"	Westward	**21WN20**
	No	2 1/4"	Wright Tool	**29AM41**	3 1/2"	Wright Tool	**29AN12**
	No	2 1/4"	Proto	**21GT61**	3 1/4"	Proto	**1ACM4**
	No	—	—	—	3 1/2"	Proto	**21GT80**
38-mm	No	2 3/8"	Proto	**1ACK9**	3 1/2"	Westward	**21WL45**
	No	—	—	—	3 7/8"	Proto	**1ACM5**
40-mm	No	2 1/2"	Wright Tool	**29AM43**	—	—	—
	No	2 1/2"	Proto	**21GT63**	—	—	—
41-mm	No	2 1/2"	Proto	**21GT64**	3 7/8"	Proto	**1ACM6**
	No	2 5/8"	Proto	**1ACL0**	3 1/2"	Westward	**21WL46**
	No	—	—	—	3 1/2"	Wright Tool	**29AN14**
	No	—	—	—	3 1/2"	Proto	**21GT82**
42-mm	No	2 3/4"	Proto	**1ACL1**	3 1/2"	Westward	**21WL47**
	No	2 9/16"	Wright Tool	**29AM45**	—	—	—
43-mm	No	2 3/4"	Proto	**1ACL2**	3 1/4"	Proto	**4UHP9**
	No	—	—	—	3 1/2"	Proto	**21GT83**
46-mm	No	2 5/8"	Wright Tool	**29AL80**	—	—	—
	No	2 5/8"	Proto	**21GT67**	—	—	—
	No	2 7/8"	Proto	**1ACL3**	3 1/2"	Westward	**21WL50**
50-mm	No	2 3/4"	Proto	**21GT68**	—	—	—
	No	3 1/8"	Proto	**1ACL4**	3 3/4"	Wright Tool	**29AN16**
	No	2 3/4"	Wright Tool	**29AM48**	—	—	—
55-mm	No	3 1/16"	Wright Tool	**29AL82**	3 15/16"	Westward	**21WL52**
60-mm	No	—	—	—	4 1/8"	Westward	**21WL53**
1" Drive Size							
19-mm	No	2 1/2"	Proto	**1AFM7**	—	—	—
22-mm	No	2 13/32"	Wright Tool	**29AP58**	—	—	—
	No	2 1/2"	Proto	**1AFM8**	—	—	—
24-mm	No	2 1/2"	Proto	**1AFM9**	—	—	—
27-mm	No	2 5/8"	Proto	**1AFN0**	4"	Proto	**21GT07**
	No	2 9/16"	Wright Tool	**29AP62**	4"	Wright Tool	**29AR50**
28-mm	No	2 9/16"	Wright Tool	**29AP63**	4"	Proto	**21GT08**
30-mm	No	2 11/16"	Wright Tool	**29AP65**	4"	Wright Tool	**29AR52**
	No	2 7/16"	Proto	**1AFN2**	4"	Proto	**21GT09**
32-mm	No	2 11/16"	Wright Tool	**29AP66**	4"	Wright Tool	**29AR53**
	No	2 7/16"	Proto	**1AFN3**	4"	Proto	**21GT10**
33-mm	No	2 7/16"	Proto	**1AFN4**	4"	Proto	**21GT11**
	No	2 11/16"	Wright Tool	**29AP67**	4"	Wright Tool	**29AR54**
34-mm	No	2 11/16"	Wright Tool	**29AP68**	4"	Wright Tool	**29AR55**
36-mm	No	2 11/16"	Wright Tool	**29AP70**	4"	Wright Tool	**29AR57**
	No	2 7/16"	Proto	**1AFN5**	4"	Proto	**21GT13**
38-mm	No	—	—	—	4"	Proto	**21GT14**
	No	3 3/8"	Proto	**10E438**	4"	Wright Tool	**29AR59**
41-mm	No	2 5/8"	Proto	**1AFN6**	4"	Wright Tool	**29AR60**
	No	2 11/16"	Wright Tool	**29AP73**	4"	Proto	**21GT15**
42-mm	No	2 11/16"	Wright Tool	**29AP74**	4"	Wright Tool	**29AR61**
43-mm	No	2 11/16"	Wright Tool	**29AP75**	4"	Wright Tool	**29AR62**
46-mm	No	2 11/16"	Wright Tool	**29AP76**	4 1/8"	Wright Tool	**29AR63**
	No	2 13/16"	Proto	**1AFN7**	4 1/8"	Proto	**21GT16**
47-mm	No	—	—	—	4 1/8"	Wright Tool	**29AR64**
48-mm	No	2 3/4"	Wright Tool	**29AP78**	—	—	—
50-mm	No	3"	Wright Tool	**29AP79**	4 1/4"	Wright Tool	**29AR65**
	No	3"	Proto	**1AFN8**	4 1/4"	Proto	**21GT17**
52-mm	No	3"	Wright Tool	**29AP80**	4 3/8"	Wright Tool	**29AR66**
54-mm	No	4 7/16"	Proto	**10E439**	—	—	—
55-mm	No	3 1/8"	Proto	**1AFN9**	4 1/2"	Proto	**21GT18**
	No	3 3/16"	Wright Tool	**29AP82**	4 1/2"	Wright Tool	**29AR67**
56-mm	No	3 3/16"	Wright Tool	**29AP83**	4 5/8"	Wright Tool	**29AR68**
58-mm	No	3 13/64"	Proto	**10E440**	—	—	—
60-mm	No	3 3/8"	Proto	**1AFP0**	4 3/4"	Proto	**21GT19**
	No	3 1/4"	Wright Tool	**29AP85**	4 3/4"	Wright Tool	**29AR69**
63-mm	No	5"	Proto	**10E441**	—	—	—
65-mm	No	3 1/2"	Proto	**1AFP1**	4 7/8"	Proto	**21GT20**
	No	3 5/16"	Wright Tool	**29AP86**	4 7/8"	Wright Tool	**29AR70**
70-mm	No	3 11/64"	Wright Tool	**29AP87**	5"	Wright Tool	**29AR71**
	No	3 3/4"	Proto	**4PKC8**	5"	Proto	**21GT21**
75-mm	No	5 1/4"	Wright Tool	**29AR72**	—	—	—
	No	3 3/4"	Proto	**4PKC9**	5 1/4"	Proto	**21GT22**
	No	3 3/4"	Wright Tool	**29AP88**	—	—	—
80-mm	No	3 15/16"	Wright Tool	**29AP89**	5 1/2"	Wright Tool	**29AR73**
	No	4"	Proto	**4PKD1**	5 1/2"	Proto	**21GT23**
85-mm	No	4 3/16"	Wright Tool	**29AP90**	5 3/4"	Wright Tool	**29AR74**
90-mm	No	4 23/73"	Wright Tool	**29AP91**	5 5/16"	Westward	**21WM15**
95-mm	No	5"	Wright Tool	**29AP92**	—	—	—
105-mm	No	—	—	—	6 3/4"	Wright Tool	**29AR45**
115-mm	No	5 5/8"	Wright Tool	**29AP55**	—	—	—

Socket Size	Tether Ready	Socket Depth Standard Overall Length	Brand	Item No.
1 1/2" Drive Size				
32-mm	No	3 11/64"	Proto	**46AX48**
36-mm	No	3 1/8"	Proto	**10E402**
	No	3 1/4"	Wright	**49C187**
38-mm	No	3 1/8"	Proto	**10E403**
	No	3 1/4"	Wright	**49C188**
41-mm	No	3 11/64"	Proto	**46AX51**
	No	3 1/4"	Wright	**49C189**
	No	5 43/64"	Proto	**46AX50**

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CONTINUED

PROTO® WESTWARD WRIGHT TOOL

All Purpose Metric Impact Sockets

Socket Size	Tether Ready	Socket Depth Standard Overall Length	Brand	Item No.
42-mm	No	3¼"	Wright	**49C190**
43-mm	No	3⅝"	Wright	**49C191**
46-mm	No	3⅝"	Wright	**49C192**
	No	3½"	Proto	**49XF41**
47-mm	No	3 13/16"	Wright	**49C193**
48-mm	No	3 13/16"	Wright	**49C194**
50-mm	No	3 15/16"	Wright	**49C195**
52-mm	No	3 15/16"	Wright	**49C196**
55-mm	No	4"	Wright	**49C197**
56-mm	No	4⅛"	Wright	**49C198**
57-mm	No	6 1/32"	Proto	**46AX58**
60-mm	No	4"	Proto	**4PKC1**
	No	4¼"	Wright	**49C199**
65-mm	No	4⅝"	Wright	**49C201**
	No	4 3/16"	Proto	**4PKC2**
70-mm	No	4⅜"	Proto	**4PKC3**
	No	4⅝"	Wright	**49C202**
75-mm	No	4½"	Proto	**4PKC4**
	No	4⅝"	Wright	**49C203**
80-mm	No	4 13/16"	Wright	**49C204**
	No	4 25/32"	Proto	**46AX64**
85-mm	No	4 61/64"	Proto	**46AX66**
	No	5"	Wright	**49C205**
90-mm	No	5 9/64"	Proto	**46AX68**
	No	5¼"	Wright	**49C206**
95-mm	No	5 7/16"	Wright	**49C207**
100-mm	No	5½"	Wright	**49C175**
	No	4½"	Westward	**21WM89**
105-mm	No	4¾"	Westward	**21WM90**
	No	5⅝"	Wright	**49C176**
110-mm	No	5 13/16"	Wright	**49C177**
115-mm	No	6"	Wright	**49C178**
	No	5"	Westward	**21WM91**
120-mm	No	6¼"	Wright	**49C179**
125-mm	No	6¼"	Wright	**49C180**
130-mm	No	6 5/16"	Wright	**49C181**
135-mm	No	6 7/16"	Wright	**49C182**
140-mm	No	6½"	Wright	**49C183**
145-mm	No	6¾"	Wright	**49C184**
150-mm	No	6 13/16"	Wright	**49C185**
155-mm	No	7⅛"	Wright	**49C186**
2½" Drive Size				
80-mm	No	5¾"	Wright	**48J399**
85-mm	No	5¾"	Wright	**48J401**
90-mm	No	6"	Wright	**48J402**
95-mm	No	6¼"	Wright	**48J403**
100-mm	No	6¼"	Wright	**48J370**

Socket Size	Socket Depth	Brand	Mfr. Model	Item No.
¼" Drive Size				
7-Point				
¼"	Standard	Gearwrench	84750	**741M25**
¼"	Standard	Gearwrench	84751	**741M26**
5/16"	Standard	Gearwrench	84754	**741M29**
7-mm	Standard	Gearwrench	84753	**741M28**
7-mm	Standard	Gearwrench	84752	**741M27**
⅜" Drive Size				
7-Point				
⅜"	Standard	Gearwrench	84757	**741M32**
⅜"	Standard	Gearwrench	84756	**741M31**
7/16"	Standard	Gearwrench	84761	**741M36**
½"	Standard	Gearwrench	84765	**741M40**
½"	Standard	Gearwrench	84764	**741M39**
9/16"	Standard	Gearwrench	84768	**741M43**
9/16"	Standard	Gearwrench	84769	**741M44**
⅝"	Standard	Gearwrench	84771	**741M46**
⅝"	Standard	Gearwrench	84770	**741M45**
11/16"	Standard	Gearwrench	84775	**741M50**
11/16"	Standard	Gearwrench	84774	**741M49**
¾"	Standard	Gearwrench	84777	**741M52**
¾"	Standard	Gearwrench	84776	**741M51**
10-mm	Standard	Gearwrench	84759	**741M34**
10-mm	Standard	Gearwrench	84758	**741M33**
12-mm	Standard	Gearwrench	84763	**741M38**
12-mm	Standard	Gearwrench	84762	**741M37**
13-mm	Standard	Gearwrench	84766	**741M41**
14-mm	Standard	Gearwrench	84767	**741M42**
17-mm	Standard	Gearwrench	84773	**741M48**
17-mm	Standard	Gearwrench	84772	**741M47**
Universal Lobular				
10-mm	Deep	IRWIN	1859121	**30TK18**

Standard 741M52

GEARWRENCH® IRWIN®

Bolt Extraction Impact Sockets

- Black oxide finish

For use with impact power tools to create high torque in removing stuck, rounded, and rusted nuts and bolts. They fit around and bite into and firmly grip the fastener head as the socket is turned and the fastener is removed.

⅜" Drive 4UHV5

WESTWARD® PROTO®

Flex Impact Metric Sockets

Socket Size	Tether Ready	Brand	Socket Depth Standard Overall Length	Standard Item No.	Deep Overall Length	Deep Item No.
¼" Drive Size						
6-Point						
5.5-mm	No	Westward	1 31/32 in	**4LYD1**	—	—
6-mm	No	Westward	1 31/32 in	**4LYD4**	—	—
8-mm	No	Westward	1 31/32 in	**4LYD6**	—	—
9-mm	No	Westward	1 31/32 in	**4LYD8**	—	—
11-mm	No	Westward	1 31/32 in	**4LYC4**	—	—
12-mm	No	Westward	1 31/32 in	**4LYC5**	—	—
14-mm	No	Westward	1 31/32 in	**4LYC7**	—	—
15-mm	No	Westward	1 31/32 in	**4LYC8**	—	—
12-Point						
5.5-mm	No	Proto	2 in	**4UHR7**	—	—
6-mm	No	Proto	2 in	**4UHR8**	—	—
7-mm	No	Proto	2 in	**4UHR9**	—	—
8-mm	No	Proto	2 in	**4UHT1**	—	—
9-mm	No	Proto	2 in	**4UHT2**	—	—
10-mm	No	Proto	2 in	**4UHT3**	—	—
12-mm	No	Proto	2 in	**4UHT5**	—	—
13-mm	No	Proto	2 in	**4UHT6**	—	—
⅜" Drive Size						
6-Point						
8-mm	No	Proto	1 3/32 in	**4UHU6**	—	—
10-mm	No	Proto	1 3/32 in	**4UHU7**	2 ¾ in	**4HUZ3**
12-mm	No	Proto	1 3/32 in	**4UHU9**	2 ¾ in	**4HUZ5**
13-mm	No	Proto	2 1/32 in	**4UHV1**	2 ¾ in	**4HUZ6**
14-mm	No	Proto	2 1/16 in	**4UHV2**	2 ¾ in	**4HUZ7**
14-mm	No	Westward	—	—	3 5/64 in	**4LYG3**
15-mm	No	Proto	1 3/32 in	**4UHV3**	2 ¾ in	**4HUZ8**
16-mm	No	Proto	1 3/32 in	**4UHV4**	—	—
17-mm	No	Proto	1 3/32 in	**4UHV5**	2 ¾ in	**4HVA1**
18-mm	No	Proto	1 3/32 in	**4UHV6**	2 ¾ in	**4HVA2**
19-mm	No	Proto	1 3/32 in	**4UHV7**	2 ¾ in	**4HVA3**
12-Point						
12-mm	No	Proto	1 3/32 in	**4UHW1**	—	—
13-mm	No	Proto	1 3/32 in	**4UHW2**	—	—
14-mm	No	Proto	1 3/32 in	**4UHW3**	—	—
15-mm	No	Proto	1 3/32 in	**4UHW4**	—	—
17-mm	No	Proto	1 3/32 in	**4HUY9**	—	—
18-mm	No	Proto	1 3/32 in	**4HUZ1**	—	—
½" Drive Size						
6-Point						
13-mm	No	Proto	2 ⅝ in	**4HVD5**	3 ½ in	**4HVF5**
14-mm	No	Proto	2 ⅝ in	**4HVD6**	3 ½ in	**4HVF6**
15-mm	No	Proto	2 ⅝ in	**4HVD7**	3 ½ in	**4HVF7**
16-mm	No	Proto	2 ⅝ in	**4HVD8**	3 ½ in	**4HVF8**
17-mm	No	Proto	2 ⅝ in	**4HVD9**	3 ½ in	**4HVF9**
18-mm	No	Proto	2 ⅝ in	**4HVE1**	3 ½ in	**4HVG1**
19-mm	No	Proto	2 ⅝ in	**4HVE2**	3 ½ in	**4HVG2**
21-mm	No	Proto	2 ⅝ in	**4HVE3**	—	—
22-mm	No	Proto	2 ⅝ in	**4HVE4**	—	—
24-mm	No	Proto	2 ⅝ in	**4HVE5**	—	—

WESTWARD® PROTO®

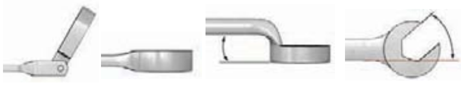
All Purpose External Torx Impact Sockets

- Standard socket depth

Socket Size	Brand	Item No.
¼ in Drive Size		
E4	Westward	**20HX69**
E4	Proto	**1FP53**
E5	Proto	**1FP46**
E6	Proto	**3R885**
E7	Proto	**1FP35**
E7	Westward	**20HX72**
E8	Proto	**3R886**
⅜ in Drive Size		
E6	Proto	**1FN59**
E7	Proto	**1FN55**
E8	Proto	**1FN47**
E10	Proto	**3R899**
E12	Proto	**3R900**
E14	Proto	**3R901**
E14	Westward	**20HX77**
E16	Proto	**1FM99**
E16	Westward	**20HX78**
½ in Drive Size		
E14	Proto	**1FL40**
E18	Proto	**1FL17**
E20	Proto	**1FL06**

1FL06

HEAD TYPE

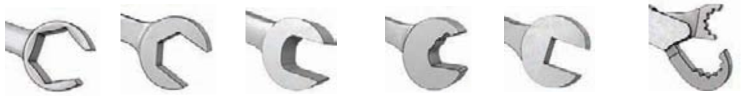


Flexible Head | Standard Head | Offset Angle | Opening Angle (Deg.)

BOX END TYPE

6-Point | Spline | 12_Point

OPENING TYPE



6-Point Flare Nut | Hex | Rounded | Speed Style | Square | 12-Point Hinged Flare Nut

Wrench Selection Guide

6-point box end wrenches allow more contact with the fastener's sides than the 12-point style and prevents rounding the fastener's corners.

12-point box end wrenches with additional grooves make it easier to connect with the head of the fastener and at more angles for better accessibility compared to a 6-point wrench.

Spline wrenches can be used on 4-pt., 6-pt., 12-pt., or spline fasteners, and the box end can apply more torque than a 12-pt. design without stripping the fastener head.

Nonsparking wrenches won't spark during use, making them suitable for use in flammable environments.

Tether-ready wrenches are fitted with a heat shrink tether loop.

SAE, 6-Point
54DF96

SAE, 12-Point
Tether-Ready
24AJ70

Combination Wrench Sets

- Alloy steel material, Nonsparking wrenches are aluminum bronze material

No. of Tools	Range of Head Sizes	Opening Type	Opening Angle (Deg.)	Head	Wrench Length Style	Container Type	Brand	Item No.
SAE 6-Point								
Chrome Finish								
8	⅛ in to ⅜ in	Rounded	15°	15 ° Offset	Stubby	Canvas Pouch	Proto	**22DG54**
9	¼ in to ¾ in	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**21A240**
10	7⁄16 in to 1 in	Hex	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P01**
13	¼ in to 1 in	Rounded	15°	15 ° Offset	Long	Storage Rack	SK Tools	**21A252**
14	¼ in to 15⁄16 in	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**21A254**
16	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Tool Roll	SK Tools	**21A242**
18	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF96**
Nickel Chrome Finish								
4	7⁄16 in to ¾ in	Hex	0°	0° Standard	Standard	Pouch	Wera	**483G07**
8	9⁄32 in to ¾ in	Hex	0°	0° Standard	Standard	Pouch	Wera	**483G08**
Satin Finish								
10	7⁄16 in to 1 in	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P48**
SAE 12-Point Tether-Ready								
Satin Finish								
15	5⁄16 in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Canvas Pouch	Proto	**24AJ70**
SAE 12-Point Ratcheting								
Black Chrome Finish								
9	¼ in to ¾ in	Rounded	15°	0° Standard	Standard	Tool Roll	Proto	**1WNB7**
SAE 12-Point Nonsparking								
Natural Finish								
7	⅜ in to ⅞ in	Rounded	15°	15 ° Offset	Standard	Tool Roll	Ampco	**1TDZ6**
SAE 12-Point								
Black Oxide Finish								
7	⅜ in to ¾ in	Hex	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449N51**
10	1 5⁄16 in to 2 in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG09**
11	¼ in to 7⁄16 in	Hex	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P47**
14	⅜ in to 1 ¼ in	Hex	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449N50**
14	⅜ in to 1 ¼ in	Hex	15°	15 ° Offset	Standard	Foam Tray	Proto	**54JG17**
18	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG08**
Chrome Finish								
7	⅜ in to ¾ in	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P02**
8	⅞ in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF92**
8	1 1⁄16 in to 1 ½ in	Rounded	15°	15 ° Offset	Long	—	SK Tools	**21A250**
10	¼ in to ¾ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF91**
10	¼ in to ⅞ in	Rounded	15°	15 ° Offset	Standard	Vinyl Pouch	Westward	**33M573**
11	¼ in to ¾ in	Rounded	15°	15 ° Offset	Stubby	Tool Roll	Proto	**22DH12**
11	5⁄16 in to 15⁄16 in	Rounded	15°	15 ° Offset	Standard	Holder	Westward	**4PL86**
11	⅜ in to 1 in	Hex	15°	15 ° Offset	Long	Tool Roll	Proto	**449N99**
11	⅜ in to 1 in	Rounded	15°	15 ° Offset	Stubby	Storage Rack	SK Tools	**21A267**
13	¼ in to 1 in	Rounded	15°	15 ° Offset	Long	Storage Rack	SK Tools	**12D214**
14	¼ in to 1 in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF98**
15	¼ in to 1 in	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449N95**
15	¼ in to 1 in	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**12D212**
15	5⁄16 in to 1 1 /4 in	Hex	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449N98**
15	5⁄16 in to 1 ¼ in	Hex	15°	15 ° Offset	Standard	Foam Tray	Proto	**54JG18**
15	5⁄16 in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Canvas Pouch	Westward	**4VAV9**
16	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Long	Tool Roll	SK Tools	**21A244**
17	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Extra Long	Canvas Pouch	Westward	**3XU44**
21	¼ in to 1 ½ in	Rounded	15°	15 ° Offset	Long	Tool Roll	SK Tools	**21A251**
23	¼ in to 1 ½ in	Rounded	15°	15 ° Offset	Long	Tool Roll	SK Tools	**21A249**
Nickel Chrome Finish								
7	¼ in to ⅝ in	Rounded		15 ° Offset	Standard	Pouch	Klein Tools	**2DGC6**
9	¼ in to ¾ in	Rounded		15 ° Offset	Standard	Pouch	Klein Tools	**2DGC7**
14	⅜ in to 1 ¼ in	Rounded		15 ° Offset	Standard	Pouch	Klein Tools	**2DGC8**
Satin Finish								
4	7⁄16 in to ⅝ in	Rounded	15°	15 ° Flexible	Standard	Canvas Pouch	Proto	**1AKN5**

No. of Tools	Range of Head Sizes	Opening Type	Opening Angle (Deg.)	Head	Wrench Length Style	Container Type	Brand	Item No.
6	5⁄16 in to ⅝ in	Speed Style	15°	15 ° Offset	Standard	Tool Roll	Westward	**4YR26**
6	⅜ in to ¾ in	Rounded	15°	15 ° Offset	Standard	Tool Roll	Westward	**4JMC6**
7	⅜ in to ¾ in	Rounded	15°	15 ° Offset	Long	Tool Roll	Proto	**449P50**
7	⅜ in to ¾ in	Rounded	15°	15 ° Flexible	Standard	Canvas Pouch	Proto	**1AKN6**
8	13⁄16 in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54RZ51**
10	¼ in to ¾ in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG01**
10	7⁄16 in to 1 in	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P49**
10	1 5⁄16 in to 2 in	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG02**
15	5⁄16 in to 1 1 /4 in	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P46**
15	5⁄16 in to 1 ¼ in	Rounded	15 °	15 ° Offset	Standard	Foam Tray	Proto	**54JG16**
16	1 5⁄16 in to 2 ½ in	Rounded	15 °	15 ° Offset	Long	—	Proto	**449P45**
17	¼ in to 1 ¼ in	Rounded	15°	15 ° Offset	Standard	Tool Roll	Westward	**4PL92**
26	¼ in to 2 in	Rounded	15 °	15 ° Offset	Standard	Tool Roll	Proto	**449N97**
31	5⁄16 in to 2 ½ in	Rounded	15°	15 ° Offset	Standard	Canvas Pouch	Proto	**449N96**
SAE & Metric 12-Point								
Chrome Finish								
12	10 mm to 15 mm, 5⁄16 in to ⅝ in	Rounded	15°	15 ° Offset	Standard	Vinyl Pouch	Westward	**33M572**
18	¼ in to ¾ in, 10 mm to 18 mm	Rounded	15 °	15 ° Offset	Standard	Storage Rack	SK Tools	**21A271**
20	¼ in to ⅞ in, 8 mm to 19 mm	Rounded	15°	15 ° Offset	Standard	Vinyl Pouch	Westward	**33M575**
20	10 mm to 19 mm, ⅜ in to 15⁄16 in	Rounded	15°	15 ° Offset	Stubby	Storage Rack	SK Tools	**21A270**
32	¼ in to 1 ⅛ in, 7 mm to 24 mm	Rounded	15°	15 ° Offset	Extra Long	Canvas Pouch	Westward	**3XU43**
32	¼ in to 1 ¼ in, 7 mm to 24 mm	Rounded	15°	15 ° Offset	Standard	Molded Case	Westward	**4YR25**
35	¼ in to 1 ⅛ in, 7 mm to 25 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF95**
Satin Finish								
17	10 mm to 19 mm, ⅜ in to ¾ in	Rounded	15°	15 ° Offset	Stubby	Pouch	Westward	**54DG05**

No. of Tools	Range of Head Sizes	Opening Type	Opening Angle (Deg.)	Head	Wrench Length Style	Container Type	Brand	Item No.
Metric 6-Point								
Chrome Finish								
10	10 mm to 19 mm	Hex	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P06**
13	7 mm to 19 mm	Rounded	15°	15 ° Offset	Long	Storage Rack	SK Tools	**12D215**
13	7 mm to 19 mm	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**21A253**
20	6 mm to 25 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF97**
Nickel Chrome Finish								
4	10 mm to 19 mm	Hex	0°	0° Standard	Standard	Pouch	Wera	**483G05**
6	10 mm to 19 mm	Hex	0°	0° Standard	Standard	Pouch	Wera	**483G04**
11	8 mm to 19 mm	Hex	0°	0° Standard	Standard	Pouch	Wera	**483G06**
Satin Finish								
10	10 mm to 19 mm	Hex	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P55**
Metric 12-Point Tether-Ready								
Satin Finish								
15	7 mm to 32 mm	Rounded	15°	15 ° Offset	Standard	Canvas Pouch	Proto	**24AJ86**
Metric 12-Point Nonsparking								
Natural Finish								
7	8 mm to 22 mm	Rounded	15°	15 ° Offset	Standard	Tool Roll	Ampco	**4RNZ7**

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Combination Wrench Sets

No. of Tools	Range of Head Sizes	Opening Type	Opening Angle (Deg.)	Head	Wrench Length Style	Container Type	Brand	Item No.
Metric 12-Point								
Black Oxide Finish								
6	8 mm to 17 mm	Rounded	15°	15 ° Offset	Long	Tool Roll	Proto	**449N54**
15	7 mm to 21 mm	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449N52**
19	6 mm to 24 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG10**
Chrome Finish								
5	10 mm to 24 mm	Rounded	15°	15 ° Offset	Long	Tray	SK Tools	**21A248**
6	25 mm to 32 mm	Rounded	15°	15 ° Offset	Standard	None	SK Tools	**21A266**
9	7 mm to 15 mm	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P07**
9	10 mm to 18 mm	Rounded	15°	15 ° Offset	Long	Tool Roll	Proto	**449P08**
10	10 mm to 19 mm	Rounded	15°	15 ° Offset	Stubby	Storage Rack	SK Tools	**21A268**
11	7 mm to 19 mm	Rounded	15°	15 ° Offset	Long	Tool Roll	Proto	**449P05**
12	8 mm to 19 mm	Rounded	15 °	15 ° Offset	Long	Tray	SK Tools	**21A247**
12	20 mm to 32 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF94**
14	6 mm to 19 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF93**
14	6 mm to 19 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DF99**
14	6 mm to 19 mm	Rounded	15°	15 ° Offset	Stubby	Tool Roll	Proto	**22DH27**
14	7 mm to 20 mm	Rounded	15°	15 ° Offset	Long	Tool Roll	Proto	**449P04**
15	8 mm to 22 mm	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**12D213**

No. of Tools	Range of Head Sizes	Opening Type	Opening Angle (Deg.)	Head	Wrench Length Style	Container Type	Brand	Item No.
17	7 mm to 24 mm	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P03**
17	7 mm to 27 mm	Rounded	15°	15 ° Offset	Extra Long	Tool Roll	Westward	**3XU46**
19	6 mm to 24 mm	Rounded	15°	15 ° Offset	Long	Tool Roll	SK Tools	**21A246**
19	6 mm to 24 mm	Rounded	15°	15 ° Offset	Standard	Storage Rack	SK Tools	**21A264**
23	8 mm to 32 mm	Rounded	15°	15 ° Offset	Standard	Tool Roll	SK Tools	**21A265**
Satin Finish								
6	8 mm to 14 mm	Speed Style	15°	15 ° Offset	Standard	Tool Roll	Westward	**4YR28**
9	7 mm to 15 mm	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P57**
10	10 mm to 19 mm	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P56**
12	20 mm to 32 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG04**
14	6 mm to 19 mm	Rounded	15°	15 ° Offset	Standard	Pouch	Westward	**54DG03**
15	7 mm to 21 mm	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P53**
15	7 mm to 32 mm	Rounded	15°	15 ° Offset	Long	Canvas Pouch	Proto	**449P54**
17	7 mm to 27 mm	Rounded	15°	15 ° Offset	Standard	Tool Roll	Westward	**4PL91**
18	4 mm to 24 mm	Rounded	15 °	15 ° Offset	Long	Canvas Pouch	Proto	**449P52**
18	7 mm to 24 mm	Rounded	15°	15 ° Offset	Standard	Foam Tray	Proto	**54JG19**

Ratcheting Combination Wrench Sets

- Alloy steel material
- *15° Opening angle except where noted

Multiple head sizes for use with a range of fasteners. Gear mechanism allows the wrench to rotate freely in one direction without removing and repositioning the wrench.

SAE, 12-Point 1WNC1

No. of Tools	Range of Head Sizes	Opening Type	Head	Wrench Length Style	Reversing	Container Type	Brand	Item No.
SAE & Metric 12-Point								
Chrome Finish								
10	5/16 in to 9/16 in, 8 mm to 14 mm	Hex	0° Standard	Standard	No	Tool Roll	Westward	**1LCF4**
SAE 12-Point								
Black Chrome Finish								
8	1/4 in to 3/4 in	Rounded	0° Flexible	Standard	Yes	Tool Roll	Proto	**22DJ41**
8	5/16 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Westward	**34D994**
9	1/4 in to 3/4 in	Rounded	0° Standard	Standard	No	Foam Tray	Proto	**54JG11**
9	1/4 in to 3/4 in	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**1WNB7**
9	1/4 in to 3/4 in	Rounded	15 ° Offset	Stubby	Yes	Tool Roll	Proto	**22DJ39**
9	9/32 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Foam Tray	Proto	**54JG12**
9	9/32 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**1WNB9**
20	7/32 in to 1 1/2 in	Rounded	15 ° Offset	Standard	Yes	Foam Tray	Proto	**54JG13**
20	7/32 in to 1 1/2 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**1WNC1**
Chrome Finish								
7	3/8 in to 3/4 in	Rounded	15 ° Offset	Standard	No	None	STANLEY	**38WF39**
7	3/8 in to 3/4 in	Rounded	0° Standard	Standard	No	Storage Rack	SK Tools	**36XK84**
7	1 1/16 in to 1 1/2 in	Rounded	0° Standard	Standard	No	Pouch	Westward	**54DG23**
8	9/32 in to 3/4 in	Rounded	0° Standard	Stubby	Yes	Pouch	Westward	**54DG30**
8	5/16 in to 3/4 in	Rounded	0° Standard	Extra Long	No	Storage Rack	Westward	**1LCC9**
8	5/16 in to 3/4 in	Rounded	180 ° Flexible	Standard	No	Canvas Pouch	Westward	**35Z115**
8	5/16 in to 3/4 in	Rounded	0° Standard	Standard	No	Storage Rack	Westward	**1LCC7**
8	5/16 in to 3/4 in	Rounded	0° Flexible	Standard	No	Storage Rack	Westward	**1LCD6**
8	5/16 in to 3/4 in	Rounded	15 ° Offset	Standard	No	Tray	Gearwrench	**703A02**
9	9/32 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**22DJ46**
11	1/4 in - 3/4 in	Hex	15 ° Standard	Standard	Yes	Tool Roll	Proto	**61UL75**
13	1/4 in to 1 in	Rounded	0° Standard	Standard	No	Storage Rack	Westward	**20PH05**
13	5/16 in to 1 in	Rounded	0° Flexible	Standard	No	Pouch	Westward	**54DG28**
13	5/16 in to 1 in	Rounded	15 ° Offset	Standard	Yes	Pouch	Westward	**54DG32**
14	1/4 in to 1 in	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**22DJ43**
15	1/4 in to 1 in	Rounded	0° Standard	Extra Long	No	Pouch	Westward	**54DG26**
15	1/4 in to 1 in	Rounded	0° Standard	Standard	No	Pouch	Westward	**54DG22**
18	1/4 in - 1 1/4 in	Hex	15 ° Standard	Standard	Yes	Tool Roll	Proto	**61UL74**
20	7/32 in to 1 1/2 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**22DJ45**
Nickel Chrome Finish								
4	7/16 in to 3/4 in	Hex	0° Standard	Standard	Yes	Pouch	Wera	**26VR48** *
8	5/16 in to 3/4 in	Hex	0° Standard	Standard	Yes	Pouch	Wera	**26VR50** *
Satin Finish								
7	5/16 in to 3/4 in	Rounded	0° Standard	Standard	No	Storage Rack	Westward	**34D938**
7	5/16 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Storage Rack	Westward	**34D991**
SAE 12-Point Tether Ready								
Black Chrome Finish								
9	1/4 in to 3/4 in	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**40JC81**
9	9/32 in to 3/4 in	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**40JD03**

No. of Tools	Range of Head Sizes	Opening Type	Head	Wrench Length Style	Reversing	Container Type	Brand	Item No.
Metric 12-Point								
Black Chrome Finish								
10	10 mm to 19 mm	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**1WNB8**
12	8 mm to 19 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Westward	**34D993**
12	8 mm to 19 mm	Rounded	0° Flexible	Standard	Yes	Tool Roll	Proto	**22DJ42**
13	6 mm to 19 mm	Rounded	15 ° Offset	Stubby	Yes	Tool Roll	Proto	**22DJ40**
13	7 mm to 19 mm	Rounded	15 ° Offset	Standard	Yes	Foam Tray	Proto	**54JG14**
13	7 mm to 19 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**1WNC2**
22	6 mm to 36 mm	Rounded	15 ° Offset	Standard	Yes	Foam Tray	Proto	**54JG15**
22	6 mm to 36 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**1WNC3**
Chrome Finish								
7	8 mm to 17 mm	Rounded	0° Standard	Standard	No	Tray	Westward	**6XZ89**
7	10 mm to 18 mm	Hex	15 ° Offset	Standard	No	Canvas Pouch	Proto	**33HE20**
7	21 mm to 32 mm	Rounded	0° Standard	Standard	No	Pouch	Westward	**54DG25**
8	8 mm to 18 mm	Hex	15 ° Offset	Standard	Yes	Tool Roll	Proto	**33HE21**
8	8 mm to 19 mm	Rounded	0° Standard	Extra Long	No	Storage Rack	Westward	**1LCD3**
8	8 mm to 19 mm	Rounded	15 ° Offset	Standard	Yes	Tray	Westward	**1LCE4**
12	8 mm to 19 mm	Rounded	15 ° Flexible	Standard	No	Storage Rack	Gearwrench	**702Z96**
12	8 mm to 19 mm	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**22DJ44**
12	8 mm to 19 mm	Rounded	0° Standard	Stubby	Yes	Pouch	Westward	**54DG31**
12	8 mm to 19 mm	Speed Style	0° Standard	Standard	No	Storage Rack	Westward	**20PH18**
13	6 mm to 19 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**22DJ48**
14	6 mm-19 mm	Hex	15 ° Standard	Standard	Yes	Tool Roll	Proto	**61UL73**
15	6 mm to 20 mm	Rounded	0° Standard	Standard	No	Pouch	Westward	**54DG24**
16	8 mm to 25 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Westward	**20PH22**
17	7 mm to 24 mm	Rounded	0° Standard	Extra Long	No	Pouch	Westward	**54DG27**
17	8 mm to 25 mm	Rounded	0° Flexible	Standard	No	Pouch	Westward	**54DG29**
17	8 mm to 25 mm	Rounded	15 ° Offset	Standard	Yes	Pouch	Westward	**54DG33**
20	6 mm-32 mm	Hex	15 ° Standard	Standard	Yes	Tool Roll	Proto	**61UL72**
22	6 mm to 36 mm	Rounded	15 ° Offset	Standard	Yes	Tool Roll	Proto	**22DJ47**
Nickel Chrome Finish								
4	10 mm to 19 mm	Hex	0° Standard	Standard	Yes	Pouch	Wera	**26VR47** *
11	8 mm to 19 mm	Hex	0° Standard	Standard	Yes	Pouch	Wera	**26VR51** *
Satin Finish								
7	8 mm to 18 mm	Rounded	0° Standard	Standard	No	Storage Rack	Westward	**34D939**
Metric 12-Point Tether Ready								
Black Chrome Finish								
10	10 mm to 19 mm	Rounded	0° Standard	Standard	No	Tool Roll	Proto	**40JC80**
13	7 mm to 19 mm	Hex	15 ° Offset	Standard	Yes	Tool Roll	Proto	**40JD13**
Metric 6-Point								
Chrome Finish								
12	8 mm to 19 mm	Rounded	0° Standard	Standard	No	Storage Rack	SK Tools	**36XK97**

*** 0° Opening Angle**

For more information on Wrenches, see page 780.

SAE, 12-Point, Tether-Ready
24AJ74

Combination Wrenches

- 15° opening angle
- Alloy steel material, nonsparking wrenches are aluminum bronze material

Box end for full grip around fastener head. Open end for access to fastener from either the top or the side.

Head Size	Overall Length	Opening Type	Head	Brand	Item No.
SAE, 12-Point Box End					
Black Oxide Finish					
7⁄16"	6⅝"	Rounded	15 ° Offset	Westward	1EYH2
7⁄16"	7"	Hex	15 ° Offset	Proto	1ALH9
½"	7"	Rounded	15 ° Offset	Westward	1EYH3
½"	7⅞"	Hex	15 ° Offset	Proto	1ALK0
¾"	9¾"	Rounded	15 ° Offset	Westward	1EYH7
¾"	11"	Hex	15 ° Offset	Proto	1ALK4
⅞"	12½"	Hex	15 ° Offset	Proto	1ALK6
15⁄16"	12½"	Rounded	15 ° Offset	Westward	1EYJ1
1⅛"	15½"	Rounded	15 ° Offset	Westward	1EYJ4
1⅛"	15⅞"	Hex	15 ° Offset	Proto	449N38
1¼"	16¾"	Rounded	15 ° Offset	Westward	1EYJ5
1¼"	16⅞"	Rounded	15 ° Offset	Proto	449N39
1 5⁄16"	17⅝"	Rounded	15 ° Offset	Proto	449N40
1 5⁄16"	18¾"	Rounded	15 ° Offset	Westward	54RZ36
1⅜"	18½"	Rounded	15 ° Offset	Proto	1GG03
1⅜"	18¾"	Rounded	15 ° Offset	Westward	54RZ37
1 7⁄16"	19¼"	Rounded	15 ° Offset	Proto	1GG02
1 7⁄16"	19⅝"	Rounded	15 ° Offset	Westward	54RZ38
1½"	19⅝"	Rounded	15 ° Offset	Westward	54RZ39
1½"	20"	Rounded	15 ° Offset	Proto	1ALL2
1 9⁄16"	20¼"	Hex	15 ° Offset	Proto	483J36
1⅝"	22¾"	Rounded	15 ° Offset	Westward	54RZ40
1⅝"	23"	Rounded	15 ° Offset	Proto	1GG01
1 13⁄16"	25"	Hex	15 ° Offset	Proto	1GF97
1⅞"	25¾"	Rounded	15 ° Offset	Westward	54RZ44
1⅞"	28"	Hex	15 ° Offset	Proto	1GF96
2"	25¾"	Rounded	15 ° Offset	Westward	54RZ45
2"	28"	Hex	15 ° Offset	Proto	1GF95
2 15⁄16"	34"	Rounded	15 ° Offset	Proto	4MWJ8
3"	34"	Rounded	15 ° Offset	Proto	4MWJ9
Chrome Finish					
7⁄16"	6½"	Rounded	15 ° Offset	Westward	36A209
7⁄16"	7"	Hex	15 ° Offset	Proto	426D68
½"	7"	Rounded	15 ° Offset	Westward	36A210
9⁄16"	7½"	Rounded	15 ° Offset	Westward	36A211
¾"	9¾"	Rounded	15 ° Offset	Westward	36A214
¾"	11"	Hex	15 ° Offset	Proto	426D85
15⁄16"	12⅜"	Rounded	15 ° Offset	Westward	36A217
15⁄16"	12⅞"	Hex	15 ° Standard	Proto	449N66
1 1⁄16"	14⅛"	Rounded	15 ° Offset	Westward	36A219
1 1⁄16"	14⅞"	Hex	15 ° Standard	Proto	449N64
1⅛"	15¾"	Rounded	15 ° Offset	Westward	36A220
1⅛"	15⅞"	Hex	15 ° Offset	Proto	449N92
1¼"	16¾"	Rounded	15 ° Offset	Westward	36A221
1¼"	16⅞"	Hex	15 ° Offset	Proto	449N65
1 5⁄16"	17⅝"	Rounded	15 ° Offset	Proto	483J48
1½"	19⅜"	Rounded	15 ° Offset	SK Tools	21A376
1½"	20⅛"	Rounded	15 ° Offset	STANLEY	38WF13
Nickel Chrome Finish					
1 7⁄16"	19¼"	Rounded	15 ° Offset	Proto	483J50
1⅝"	20¼"	Rounded	15 ° Offset	Proto	483J53
Satin Finish					
5⁄16"	5¼"	Hex	15 ° Offset	Proto	1AKW2
⅜"	6¼"	Hex	15 ° Offset	Proto	449P11
7⁄16"	7"	Hex	15 ° Offset	Proto	24AJ73
½"	8"	Hex	15 ° Offset	Proto	1AKW6
9⁄16"	7½"	Rounded	15 ° Offset	Westward	36A178
9⁄16"	8½"	Hex	15 ° Offset	Proto	449P19
⅝"	9½"	Hex	15 ° Offset	Proto	449P23
11⁄16"	10¼"	Hex	15 ° Offset	Proto	449P25
¾"	9¾"	Rounded	15 ° Offset	Westward	36A181
¾"	11"	Hex	15 ° Offset	Proto	1AKX0
⅞"	12½"	Hex	15 ° Offset	Proto	1AKX2
15⁄16"	12⅜"	Rounded	15 ° Offset	Westward	36A184
15⁄16"	12⅞"	Hex	15 ° Offset	Proto	449P32
15⁄16"	13¼"	Hex	15 ° Offset	Proto	24AJ81
1"	14"	Hex	15 ° Offset	Proto	24AJ82
1 1⁄16"	15¼"	Hex	15 ° Offset	Proto	24AJ83
1⅛"	15¾"	Rounded	15 ° Offset	Westward	36A187
1⅛"	15⅞"	Hex	15 ° Offset	Proto	24AJ84
1¼"	16¾"	Rounded	15 ° Offset	Westward	36A188
1¼"	16⅞"	Hex	15 ° Offset	Proto	449P42
1 5⁄16"	17⅝"	Hex	15 ° Offset	Proto	449P44
1 5⁄16"	18¾"	Rounded	15 ° Offset	Westward	54RY95
1⅜"	18½"	Rounded	15 ° Offset	Proto	1AKX9
1⅜"	18½"	Rounded	15 ° Offset	Westward	1EYF4
1 7⁄16"	19¼"	Rounded	15 ° Offset	Proto	1ALC0
1 7⁄16"	19½"	Rounded	15 ° Offset	Westward	1EYF5
1½"	19½"	Rounded	15 ° Offset	Westward	1EYF6
1½"	20¼"	Rounded	15 ° Offset	Proto	1ALC1
1⅝"	21¼"	Rounded	15 ° Offset	Westward	1EYF7
1⅝"	23"	Rounded	15 ° Offset	Proto	1ALC2
1 11⁄16"	23"	Hex	15 ° Offset	Proto	426D91
1¾"	25"	Hex	15 ° Offset	Proto	426D92
1 13⁄16"	25"	Hex	15 ° Offset	Proto	426D93
1⅞"	25¾"	Rounded	15 ° Offset	Westward	54RY99
1⅞"	28"	Hex	15 ° Offset	Proto	426D94
2"	25¾"	Rounded	15 ° Offset	Westward	54RZ01
2"	28"	Hex	15 ° Offset	Proto	426D95
2⅛"	26⅜"	Rounded	15 ° Offset	Westward	54RZ03
2 3⁄16"	26⅜"	Rounded	15 ° Offset	Westward	54RZ04
2 3⁄16"	29½"	Hex	15 ° Offset	Proto	1ALF0
2¼"	26⅜"	Rounded	15 ° Offset	Westward	54RZ05
2¼"	29½"	Hex	15 ° Offset	Proto	426D96
2⅜"	27¼"	Rounded	15 ° Offset	Westward	54RZ06
2⅜"	31½"	Hex	15 ° Offset	Proto	1ALF2
2½"	27¼"	Rounded	15 ° Offset	Westward	54RZ07
2½"	31½"	Hex	15 ° Offset	Proto	1ALF3
2 9⁄16"	27¼"	Rounded	15 ° Offset	Westward	54RZ08
2 9⁄16"	29¾"	Rounded	15 ° Offset	Proto	4MWJ3
2⅝"	27¼"	Rounded	15 ° Offset	Westward	54RZ09
2¾"	28⅛"	Rounded	15 ° Offset	Westward	54RZ10
SAE, 12-Point Box End, Nonsparking					
Natural Finish					
7⁄16"	6¼"	Rounded	15 ° Offset	Ampco	5MM06
½"	7½"	Rounded	15 ° Offset	Ampco	4DC17
9⁄16"	8"	Rounded	15 ° Offset	Ampco	4DC18
⅝"	8¾"	Rounded	15 ° Offset	Ampco	4DC19
11⁄16"	9¼"	Rounded	15 ° Offset	Ampco	5MM07
¾"	10¾"	Rounded	15 ° Offset	Ampco	4DC20
⅞"	11¾"	Rounded	15 ° Offset	Ampco	4DC21
15⁄16"	9½"	Rounded	15 ° Offset	Ampco	5MM08
1"	14"	Rounded	15 ° Offset	Ampco	4DC22
1 1⁄16"	14"	Rounded	15 ° Offset	Ampco	5MM09
1⅛"	15¾"	Rounded	15 ° Offset	Ampco	4DC23
1¼"	17"	Rounded	15 ° Offset	Ampco	5MM10
1 5⁄16"	17"	Rounded	15 ° Offset	Ampco	4RNZ8
1 7⁄16"	19"	Rounded	15 ° Offset	Ampco	4RPA1
1½"	19"	Rounded	15 ° Offset	Ampco	4RPA2
1⅝"	20¾"	Rounded	15 ° Offset	Ampco	4RPA3
1 13⁄16"	22¾"	Rounded	15 ° Offset	Ampco	46C046
1⅞"	22¾"	Rounded	15 ° Offset	Ampco	21XW07
1 15⁄16"	22¾"	Rounded	15 ° Offset	Ampco	21XW06
2"	22¾"	Rounded	15 ° Offset	Ampco	4RPA6
2½"	22¾"	Rounded	15 ° Offset	Ampco	21XW09
SAE, 12-Point Box End, Tether Included					
Satin Finish					
½"	8"	Hex	15 ° Offset	Proto	24AJ74
9⁄16"	8¾"	Hex	15 ° Offset	Proto	24AJ75
⅝"	9½"	Hex	15 ° Offset	Proto	24AJ76
11⁄16"	10¼"	Hex	15 ° Offset	Proto	24AJ77
¾"	11"	Hex	15 ° Offset	Proto	24AJ78
13⁄16"	12"	Hex	15 ° Offset	Proto	24AJ79
⅞"	12½"	Hex	15 ° Offset	Proto	24AJ80
1¼"	16⅞"	Hex	15 ° Offset	Proto	24AJ85
SAE, 6-Point Box End					
Chrome Finish					
7⁄16"	6½"	Rounded	15 ° Offset	Westward	36A275
½"	7"	Rounded	15 ° Offset	Westward	36A276
9⁄16"	5½"	Hex	15 ° Offset	Proto	449N80
9⁄16"	7½"	Rounded	15 ° Offset	Westward	36A277
¾"	9¾"	Rounded	15 ° Offset	Westward	36A280
¾"	11"	Hex	15 ° Offset	Proto	22DG91
15⁄16"	12⅜"	Rounded	15 ° Offset	Westward	36A283
15⁄16"	12⅞"	Hex	15 ° Offset	Proto	449N87
1 1⁄16"	14⅛"	Rounded	15 ° Offset	Westward	36A285
1 1⁄16"	14⅞"	Hex	15 ° Offset	Proto	449N90
1⅛"	15¾"	Rounded	15 ° Offset	Westward	36A286
1⅛"	15⅞"	Hex	15 ° Offset	Proto	449N91
1¼"	16¾"	Rounded	15 ° Offset	Westward	36A287
1¼"	16⅞"	Hex	15 ° Offset	Proto	449N94
Satin Finish					
9⁄16"	8½"	Hex	15 ° Offset	Proto	449P20
¾"	11"	Hex	15 ° Offset	Proto	1ALW8
1⅛"	15⅞"	Hex	15 ° Offset	Proto	449P39
SAE, Spline Box End					
Chrome Finish					
5⁄16"	5⅛"	Rounded	15 ° Offset	Westward	33M577
5⁄16"	5½"	Hex	15 ° Offset	Proto	2KGK5
⅜"	5¾"	Rounded	15 ° Offset	Westward	33M578
7⁄16"	6⅛"	Rounded	15 ° Offset	Westward	33M579
7⁄16"	7"	Hex	15 ° Offset	Proto	2KGK7
½"	6⅞"	Rounded	15 ° Offset	Westward	33M580
½"	7⅞"	Hex	15 ° Offset	Proto	2KGK8
9⁄16"	5¾"	Hex	15 ° Offset	Proto	449N82
9⁄16"	7⅜"	Rounded	15 ° Offset	Westward	33M581
⅝"	8¼"	Rounded	15 ° Offset	Westward	33M582
⅝"	9½"	Hex	15 ° Offset	Proto	449N84
11⁄16"	8¾"	Rounded	15 ° Offset	Westward	33M583
11⁄16"	10¼"	Hex	15 ° Offset	Proto	449N86
¾"	9⅝"	Rounded	15 ° Offset	Westward	33M584
¾"	11"	Hex	15 ° Offset	Proto	2KGL3
⅞"	12½"	Hex	15 ° Offset	Proto	19C589
15⁄16"	12⅞"	Hex	15 ° Offset	Proto	449N89
Metric, 12-Point Box End					
Black Oxide Finish					
24 mm	13"	Hex	15 ° Offset	Proto	449N31
30 mm	15¾"	Hex	15 ° Offset	Proto	449N35
Chrome Finish					
10 mm	6¼"	Rounded	15 ° Offset	Westward	36A225
24 mm	13"	Hex	15 ° Offset	Proto	449N62
32 mm	16⅝"	Rounded	15 ° Offset	Westward	54RY76
34 mm	15¼"	Hex	15 ° Offset	Proto	483J45
36 mm	15⅞"	Hex	15 ° Offset	Proto	483J46
Satin Finish					
7 mm	5⅛"	Hex	15 ° Offset	Proto	24AJ87
8 mm	5⅜"	Hex	15 ° Offset	Proto	24AJ88
10 mm	6"	Hex	15 ° Offset	Proto	24AJ89
10 mm	6¼"	Hex	15 ° Offset	Proto	449P09
11 mm	7"	Hex	15 ° Offset	Proto	1ALM5
12 mm	7¾"	Hex	15 ° Offset	Proto	24AJ90
13 mm	8"	Hex	15 ° Offset	Proto	1ALM7
14 mm	5⅝"	Hex	15 ° Offset	Proto	449P13
14 mm	8¾"	Hex	15 ° Offset	Proto	24AJ91
16 mm	9½"	Hex	15 ° Offset	Proto	24AJ92
17 mm	10⅛"	Hex	15 ° Offset	Proto	449P17
18 mm	10¾"	Hex	15 ° Offset	Proto	24AJ93
19 mm	11"	Hex	15 ° Offset	Proto	1ALN3
20 mm	11½"	Hex	15 ° Offset	Proto	24AJ94
22 mm	12½"	Hex	15 ° Offset	Proto	24AJ95
24 mm	13"	Hex	15 ° Offset	Proto	449P28
24 mm	13¼"	Hex	15 ° Offset	Proto	24AJ96
26 mm	14¾"	Hex	15 ° Offset	Proto	24AJ97
27 mm	15"	Hex	15 ° Offset	Proto	449P29
28 mm	15½"	Hex	15 ° Offset	Proto	24AJ98
29 mm	15¾"	Hex	15 ° Offset	Proto	24AJ99
30 mm	15¾"	Hex	15 ° Offset	Proto	24AK01
30 mm	16¼"	Rounded	15 ° Offset	Westward	54RZ20
32 mm	16⅞"	Hex	15 ° Offset	Proto	24AK02
36 mm	19¼"	Hex	15 ° Offset	Proto	1ALP6
36 mm	19⅝"	Rounded	15 ° Offset	Westward	54RZ23
41 mm	22¾"	Rounded	15 ° Offset	Westward	54RZ24
41 mm	23"	Rounded	15 ° Offset	Proto	1ALP7
46 mm	24⅛"	Rounded	15 ° Offset	Westward	54RZ25
46 mm	25"	Hex	15 ° Offset	Proto	1ALP8
55 mm	26⅜"	Rounded	15 ° Offset	Westward	54RZ27
55 mm	28¾"	Hex	15 ° Offset	Proto	4MWL1
60 mm	27⅛"	Rounded	15 ° Offset	Westward	54RZ28
60 mm	29¾"	Hex	15 ° Offset	Proto	4MWL2
65 mm	29¾"	Hex	15 ° Offset	Proto	4MWL3
70 mm	29¾"	Hex	15 ° Offset	Proto	4MWL4
Metric, 12-Point Box End, Nonsparking					
Natural Finish					
10 mm	6¼"	Rounded	15 ° Offset	Ampco	4RNY1
13 mm	8¾"	Rounded	15 ° Offset	Ampco	4RNY4
17 mm	9½"	Rounded	15 ° Offset	Ampco	4RNY8
19 mm	10¾"	Rounded	15 ° Offset	Ampco	4RNZ1
24 mm	9½"	Rounded	15 ° Offset	Ampco	4RNZ3
27 mm	14"	Rounded	15 ° Offset	Ampco	4RNZ4
32 mm	16¾"	Rounded	15 ° Offset	Ampco	4RNZ6
36 mm	18¾"	Rounded	15 ° Offset	Ampco	49UN68
38 mm	18¾"	Rounded	15 ° Offset	Ampco	49UN69
41 mm	20¾"	Rounded	15 ° Offset	Ampco	49UN70
Metric, 6-Point Box End					
Chrome Finish					
7 mm	5¼"	Rounded	15 ° Offset	Westward	36A288
8 mm	5½"	Rounded	15 ° Offset	Westward	36A289
10 mm	6¼"	Hex	15 ° Offset	Proto	449N74
10 mm	6¼"	Rounded	15 ° Offset	Westward	36A291
13 mm	7"	Rounded	15 ° Offset	Westward	36A294
13 mm	8"	Hex	15 ° Offset	Proto	22DG75
14 mm	7½"	Rounded	15 ° Offset	Westward	36A295
15 mm	7⅞"	Rounded	15 ° Offset	Westward	36A296
17 mm	8⅞"	Rounded	15 ° Offset	Westward	36A298
17 mm	10¼"	Hex	15 ° Offset	Proto	449N79
19 mm	9¾"	Rounded	15 ° Offset	Westward	36A301
19 mm	11"	Hex	15 ° Offset	Proto	22DG81
Satin Finish					
4 mm	3"	Rounded	15 ° Offset	Facom	36T914
10 mm	6¼"	Hex	15 ° Offset	Proto	449P10
13 mm	8"	Hex	15 ° Offset	Proto	1AMC8
Metric, Spline Box End					
Chrome Finish					
8 mm	4½"	Rounded	15 ° Offset	Beta	36HV14
10 mm	5⅜"	Rounded	15 ° Offset	Beta	36HV15
10 mm	5¾"	Rounded	15 ° Offset	Westward	33M588
13 mm	6⅝"	Rounded	15 ° Offset	Beta	36HV18
13 mm	6⅞"	Rounded	15 ° Offset	Westward	33M591
17 mm	8¼"	Rounded	15 ° Offset	Beta	36HV21
17 mm	8¾"	Rounded	15 ° Offset	Westward	33M594
19 mm	9⅛"	Rounded	15 ° Offset	Beta	36HV22
30 mm	15¾"	Hex	15 ° Offset	Proto	449N88

For more information on Wrenches, see page 780.

PROTO® WESTWARD SK® JONARD TOOLS

Ratcheting Combination Wrenches

- Alloy steel material
- 15° opening angle

Box end with gear mechanism for rotation without removing and repositioning the wrench. Open end for access to fastener from either the top or the side.

SAE 6-Point, Rounded Opening
36XK77

SAE 12-Point, Hex Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
¼"	5"	0° Standard	No	Proto	22DH70
¼"	5"	15° Offset	Yes	Proto	22DH29
5/16"	5½"	0° Standard	No	Proto	22DH71
5/16"	5½"	15° Offset	Yes	Proto	22DH31
⅜"	6"	0° Standard	No	Proto	22DH73
⅜"	6¼"	15° Offset	Yes	Proto	22DH33
7/16"	6½"	0° Standard	No	Proto	22DH74
7/16"	6½"	15° Offset	Yes	Proto	22DH34
½"	7"	0° Standard	No	Proto	22DH75
½"	7"	15° Offset	Yes	Proto	22DH35
9/16"	7½"	0° Standard	No	Proto	22DH76
9/16"	7½"	15° Offset	Yes	Proto	22DH36
⅝"	8¼"	0° Standard	No	Proto	22DH77
⅝"	8¼"	15° Offset	Yes	Proto	22DH37
11/16"	8¾"	0° Standard	No	Proto	22DH78
11/16"	8¾"	15° Offset	Yes	Proto	22DH38
¾"	9¾"	0° Standard	No	Proto	22DH79
¾"	9¾"	15° Offset	Yes	Proto	22DH39
13/16"	11½"	15° Offset	Yes	Proto	22DH40
⅞"	11½"	0° Standard	No	Proto	22DH81
⅞"	11½"	15° Offset	Yes	Proto	22DH41
15/16"	12¾"	0° Standard	No	Proto	22DH82
15/16"	12¾"	15° Offset	Yes	Proto	22DH42
1"	12¾"	0° Standard	No	Proto	22DH83
1"	12¾"	15° Offset	Yes	Proto	22DH43
1-1/16"	14¼"	15° Offset	Yes	Proto	22DH44
1⅛"	15¾"	15° Offset	Yes	Proto	22DH45
1¼"	16¾"	15° Offset	Yes	Proto	22DH46
1½"	19¼"	15° Offset	Yes	Proto	22DH47

SAE 12-Point, Rounded Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
¼"	4⅞"	0° Standard	No	Westward	54PN21
5/16"	5½"	0° Standard	No	Westward	54PN23
5/16"	5½"	15° Offset	Yes	Westward	54PP33
⅜"	6⅛"	0° Standard	No	Westward	54PN25
⅜"	6⅛"	15° Offset	Yes	Westward	54PP35
⅜"	6½"	0° Flexible	No	Westward	1LCP6
⅜"	7"	0° Standard	No	Westward	54PN77
7/16"	4"	0° Standard	No	Westward	54PP15
7/16"	6½"	0° Standard	No	Westward	54PN26
7/16"	6½"	15° Offset	Yes	Westward	54PP36
7/16"	7"	0° Flexible	No	Westward	1LCP7
7/16"	7⅝"	0° Standard	No	Westward	54PN78
½"	4⅛"	0° Standard	No	Westward	54PP16
½"	7"	0° Standard	No	Westward	54PN27
½"	7"	15° Offset	Yes	Westward	54PP37
½"	8"	0° Flexible	No	Westward	1LCP8
½"	8⅝"	0° Standard	No	Westward	54PN79
9/16"	4⅜"	0° Standard	No	Westward	54PP17
9/16"	7½"	0° Standard	No	Westward	54PN28
9/16"	7½"	15° Offset	Yes	Westward	54PP38
9/16"	8½"	0° Flexible	No	Westward	1LCP9
9/16"	9⅛"	0° Standard	No	Westward	54PN80
⅝"	8⅛"	0° Standard	No	Westward	54PN29
⅝"	8⅛"	15° Offset	Yes	Westward	54PP39
⅝"	10⅛"	0° Standard	No	Westward	54PN81
11/16"	8⅞"	0° Standard	No	Westward	54PN30
11/16"	8⅞"	15° Offset	Yes	Westward	54PP40
¾"	5⅜"	0° Standard	No	Westward	54PP20
¾"	9¾"	0° Standard	No	Westward	54PN31
¾"	9¾"	15° Offset	Yes	Westward	54PP41
¾"	11"	0° Flexible	No	Westward	1LCR3
¾"	12"	0° Standard	No	Westward	54PN83
13/16"	11½"	0° Standard	No	Westward	54PN32
⅞"	11½"	0° Standard	No	Westward	54PN33
⅞"	11½"	15° Offset	Yes	Westward	54PP43
⅞"	13"	0° Standard	No	Westward	54PN85
15/16"	13"	0° Standard	No	Westward	54PN34
15/16"	13"	15° Offset	Yes	Westward	54PP44
15/16"	14"	0° Standard	No	Westward	54PN86
15/16"	14"	0° Flexible	No	Westward	1LCR6
1"	13"	0° Standard	No	Westward	54PN35
1"	13"	15° Offset	Yes	Westward	54PP45
1-1/16"	14"	0° Standard	No	Westward	54PN36
1⅛"	15¾"	0° Standard	No	Westward	54PN37
1¼"	16¾"	0° Standard	No	Westward	54PN38
1-5/16"	18"	0° Standard	No	Westward	54PN39
1⅜"	18"	0° Standard	No	Westward	54PN40
1-7/16"	19⅝"	0° Standard	No	Westward	54PN41
1½"	19⅝"	0° Standard	No	Westward	34E325
1-9/16"	22⅝"	0° Standard	No	Westward	54PN42
1⅝"	22⅝"	0° Standard	No	Westward	54PN43
1¾"	24⅛"	0° Standard	No	Westward	34E328
1-13/16"	25⅜"	0° Standard	No	Westward	34E327
1⅞"	25⅜"	0° Standard	No	Westward	54PN44
2"	25¾"	0° Standard	No	Westward	54PN45

SAE 12-Point, Speed Style Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
7/16"	6½"	0° Standard	No	Jonard Tools	16D674
½"	6½"	0° Standard	No	Jonard Tools	23Z416

SAE 6-Point, Rounded Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
⅜"	6¾"	0° Standard	No	SK Tools	36XK77
7/16"	7⅛"	0° Standard	No	SK Tools	36XK78
½"	7⅞"	0° Standard	No	SK Tools	36XK79
9/16"	8⅜"	0° Standard	No	SK Tools	36XK80
⅝"	9⅜"	0° Standard	No	SK Tools	36XK81
11/16"	10"	0° Standard	No	SK Tools	36XK82
¾"	11"	0° Standard	No	SK Tools	36XK83

SAE Spline, Hex Opening Type — Black Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
¼"	5"	15° Offset	No	Proto	1TEL1
¼"	5"	15° Offset	Yes	Proto	1XDD9
5/16"	5½"	15° Offset	Yes	Proto	1XDE2
⅜"	6¼"	15° Offset	No	Proto	1TEL4
⅜"	6¼"	15° Offset	Yes	Proto	1XDE4
7/16"	5½"	15° Flexible	No	Proto	22DJ21
7/16"	6½"	15° Offset	No	Proto	1TEL5
7/16"	6½"	15° Offset	Yes	Proto	1XDE5
½"	6"	15° Flexible	No	Proto	22DJ22
½"	7"	15° Offset	No	Proto	1TEL6
½"	7"	15° Offset	Yes	Proto	1XDE6
9/16"	4½"	15° Offset	Yes	Proto	22DJ02
9/16"	6¼"	15° Flexible	No	Proto	22DJ23
9/16"	7½"	15° Offset	No	Proto	1TEL7
9/16"	7½"	15° Offset	Yes	Proto	1XDE7
⅝"	8¼"	15° Offset	No	Proto	1TEL8
⅝"	8¼"	15° Offset	Yes	Proto	1XDE8
11/16"	8¾"	15° Offset	No	Proto	1TEL9
11/16"	8¾"	15° Offset	Yes	Proto	1XDE9
¾"	5½"	15° Offset	Yes	Proto	22DJ05
¾"	8½"	15° Flexible	No	Proto	22DJ26
¾"	9¾"	15° Offset	No	Proto	1TEP1
¾"	9¾"	15° Offset	Yes	Proto	1XDF1
13/16"	11½"	15° Offset	Yes	Proto	1XDF2
⅞"	11½"	15° Offset	No	Proto	19C598
⅞"	11½"	15° Offset	Yes	Proto	1XDF3
15/16"	12¾"	15° Offset	No	Proto	19C597
15/16"	12¾"	15° Offset	Yes	Proto	1XDF4
1"	12¾"	15° Offset	Yes	Proto	1XDF5
1-1/16"	14¼"	15° Offset	Yes	Proto	1XDF6
1⅛"	15¾"	15° Offset	Yes	Proto	1XDF7
1¼"	16¾"	15° Offset	Yes	Proto	1XDF8
1½"	19¼"	15° Offset	Yes	Proto	1XDF9

SAE Spline Tether-Ready, Hex Opening Type — Black Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
5/16"	5½"	15° Offset	Yes	Proto	34GP18
⅜"	6¼"	15° Offset	No	Proto	34GP28
7/16"	6½"	15° Offset	No	Proto	34GP29
7/16"	6½"	15° Offset	Yes	Proto	34GP20
½"	7"	15° Offset	No	Proto	34GP30
½"	7"	15° Offset	Yes	Proto	34GP21
9/16"	7½"	15° Offset	No	Proto	34GP31
9/16"	7½"	15° Offset	Yes	Proto	34GP22
⅝"	8¼"	15° Offset	Yes	Proto	34GP23
11/16"	8¾"	15° Offset	Yes	Proto	34GP24
¾"	9¾"	15° Offset	No	Proto	34GP34
¾"	9¾"	15° Offset	Yes	Proto	34GP25

Metric 12-Point, Rounded Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
7 mm	5⅛"	0° Standard	No	Westward	54PN47
8 mm	5½"	0° Standard	No	Westward	54PN48
8 mm	5½"	15° Offset	Yes	Westward	54PP46
8 mm	5⅞"	0° Standard	No	Westward	54PN89
10 mm	3⅝"	0° Standard	No	Westward	54PP23
10 mm	6⅛"	0° Standard	No	Westward	54PN50
10 mm	6⅛"	15° Offset	Yes	Westward	54PP48
10 mm	6½"	0° Flexible	No	Westward	1LCN3
10 mm	7"	0° Standard	No	Westward	54PN91
11 mm	6½"	0° Standard	No	Westward	54PN51
12 mm	6¾"	0° Standard	No	Westward	54PN52
13 mm	4⅛"	0° Standard	No	Westward	54PP26
13 mm	7"	0° Standard	No	Westward	54PN53
13 mm	7"	15° Offset	Yes	Westward	54PP51
13 mm	8"	0° Flexible	No	Westward	1LCN5
13 mm	8⅝"	0° Standard	No	Westward	54PN94
14 mm	7½"	0° Standard	No	Westward	54PN54
14 mm	7½"	15° Offset	Yes	Westward	54PP52
15 mm	7⅞"	0° Standard	No	Westward	54PN55
15 mm	7⅞"	15° Offset	Yes	Westward	54PP53
16 mm	8⅛"	0° Standard	No	Westward	54PN56
17 mm	4⅞"	0° Standard	No	Westward	54PP30
17 mm	8⅞"	0° Standard	No	Westward	54PN57
17 mm	8⅞"	15° Offset	Yes	Westward	54PP55
17 mm	10¾"	0° Standard	No	Westward	54PN98
18 mm	9¼"	0° Standard	No	Westward	54PN58
18 mm	9¼"	15° Offset	Yes	Westward	54PP56
19 mm	9¾"	0° Standard	No	Westward	54PN59
19 mm	9¾"	15° Offset	Yes	Westward	54PP57
19 mm	11"	0° Flexible	No	Westward	1LCN9
19 mm	12"	0° Standard	No	Westward	54PP01
22 mm	11⅜"	0° Standard	No	Westward	54PN62
24 mm	13"	0° Standard	No	Westward	54PN63
24 mm	13"	15° Offset	Yes	Westward	54PP61
24 mm	14"	0° Standard	No	Westward	54PP05
27 mm	14"	0° Standard	No	Westward	54PN65
30 mm	15¾"	0° Standard	No	Westward	54PN66
32 mm	16¾"	0° Standard	No	Westward	54PN67
36 mm	19⅝"	0° Standard	No	Westward	54PN69
46 mm	25⅜"	0° Standard	No	Westward	54PN71

Metric 6-Point, Rounded Opening Type — Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
8 mm	6¾"	0° Standard	No	SK Tools	36XK85
9 mm	6¾"	0° Standard	No	SK Tools	36XK86
10 mm	6¾"	0° Standard	No	SK Tools	36XK87
11 mm	7⅛"	0° Standard	No	SK Tools	36XK88
12 mm	7½"	0° Standard	No	SK Tools	36XK89
13 mm	7⅞"	0° Standard	No	SK Tools	36XK90
15 mm	9"	0° Standard	No	SK Tools	36XK92
17 mm	10"	0° Standard	No	SK Tools	36XK94
18 mm	10½"	0° Standard	No	SK Tools	36XK95

Metric Spline, Hex Opening Type

Head Size	Overall Length	Head	Reversing	Brand	Item No.
Black Chrome Finish					
8 mm	5½"	15° Offset	No	Proto	19C599
8 mm	5½"	15° Offset	Yes	Proto	1XDG3
10 mm	5¼"	15° Flexible	No	Proto	22DJ29
11 mm	6½"	15° Offset	Yes	Proto	1XDG6
12 mm	6¾"	15° Offset	Yes	Proto	1XDG7
13 mm	6"	15° Flexible	No	Proto	22DJ32
14 mm	7½"	15° Offset	Yes	Proto	1XDG9
17 mm	8¾"	15° Offset	No	Proto	1XDD5
17 mm	8¾"	15° Offset	Yes	Proto	1XDH3
18 mm	9¼"	15° Offset	Yes	Proto	1XDH4
21 mm	11½"	15° Offset	Yes	Proto	1XDH6
22 mm	11½"	15° Offset	Yes	Proto	1XDH7
24 mm	12¾"	15° Offset	Yes	Proto	1XDH8
27 mm	14"	15° Offset	Yes	Proto	1XDH9
30 mm	15¾"	15° Offset	Yes	Proto	1XDJ1
32 mm	16¾"	15° Offset	Yes	Proto	1XDJ2
36 mm	19¼"	15° Offset	Yes	Proto	1XDJ4
Chrome Finish					
7 mm	5½"	15° Offset	Yes	Proto	22DH49
8 mm	5½"	15° Offset	No	Proto	22DH84
8 mm	5½"	15° Offset	Yes	Proto	22DH50
10 mm	6¼"	15° Offset	No	Proto	22DH86
10 mm	6¼"	15° Offset	Yes	Proto	22DH52
11 mm	6½"	15° Offset	Yes	Proto	22DH53
12 mm	6¾"	15° Offset	No	Proto	22DH88
12 mm	6¾"	15° Offset	Yes	Proto	22DH54
13 mm	7"	15° Offset	No	Proto	22DH89
13 mm	7"	15° Offset	Yes	Proto	22DH55
14 mm	7½"	15° Offset	No	Proto	22DH90
16 mm	8¼"	15° Offset	Yes	Proto	22DH58
17 mm	8¾"	15° Offset	No	Proto	22DH93
17 mm	8¾"	15° Offset	Yes	Proto	22DH59
18 mm	9¼"	15° Offset	Yes	Proto	22DH60
19 mm	9¾"	15° Offset	No	Proto	22DH95
19 mm	9¾"	15° Offset	Yes	Proto	22DH61
22 mm	11½"	15° Offset	Yes	Proto	22DH63
24 mm	12¾"	15° Offset	Yes	Proto	22DH64
30 mm	15¾"	15° Offset	Yes	Proto	22DH66
36 mm	19¼"	15° Offset	Yes	Proto	22DH69

Metric Tether-Ready Spline, Hex Opening Type — Black Chrome Finish

Head Size	Overall Length	Head	Reversing	Brand	Item No.
7 mm	5½"	15° Offset	Yes	Proto	34GP04
9 mm	6"	15° Offset	Yes	Proto	34GP06
10 mm	6¼"	15° Offset	No	Proto	34GP35
10 mm	6¼"	15° Offset	Yes	Proto	34GP07
11 mm	6½"	15° Offset	No	Proto	34GP36
13 mm	7"	15° Offset	No	Proto	34GP38
13 mm	7"	15° Offset	Yes	Proto	34GP10
15 mm	7¾"	15° Offset	Yes	Proto	34GP12
16 mm	8¼"	15° Offset	No	Proto	34GP41
16 mm	8¼"	15° Offset	Yes	Proto	34GP13
19 mm	9¾"	15° Offset	No	Proto	34GP44
19 mm	9¾"	15° Offset	Yes	Proto	34GP16

For more information on Wrenches, see page 780.

Box End Wrench Sets

- Standard wrench length
- Straight
- 12-point box end
- Alloy steel material

Feature an enclosed head end that fits around the entire head of the fastener for a secure grip. A 15° head offset provides knuckle clearance while turning, and a 40° head offset clears obstructions and reaches nuts and bolts in tight spaces.

Double Ended, Insulated 40JD22

No. of Tools	Range of Head Sizes	Head	Container Type	Brand	Item No.
Double End					
Black Oxide Finish					
8	5/16 in to 1 ¼ in	15 ° Offset	Pouch	Proto	**1AKP6**
Chrome Finish					
7	5/16 in to 1 ⅛ in	15 ° Offset	Pouch	Proto	**1AKP7**
Double End, Insulated					
Chrome Finish					
11	6 mm to 32 mm	15 ° Offset	Pouch	Proto	**40JD22**
11	6 mm to 32 mm	15 ° Offset	Pouch	Proto	**4LT81**
Satin Finish					
13	¼ in to 1 in, 6 mm to 19 mm	40 ° Offset	Canvas Pouch	Westward	**54DG06**
13	¼ in to 1 in, 6 mm to 19 mm	40 ° Offset	Canvas Pouch	Westward	**54DG06**
14	¼ in to ⅞ in, 6 to 19mm	15 ° Offset	Canvas Pouch	Westward	**4YR23**
14	¼ in to ⅞ in, 6 to 19mm	15 ° Offset	Canvas Pouch	Westward	**4YR23**
Single End					
Chrome Finish					
8	5/16 in to ¾ in	15 ° Offset	Wrench Roll	Wiha Tools	**26X334**
Single End, Insulated					
Chrome Finish					
8	10 mm to 19 mm	15 ° Offset	Wrench Roll	Wiha Tools	**26X337**

Ratcheting Box End Wrench Sets

- Alloy steel material
- Straight

Enclosed head with gear mechanism rotates freely without repositioning the wrench. Reversing wrenches change direction without removing the head from the fastener.

SAE Single End 12-Point, Insulated 26X335

No. of Tools	Range of Head Sizes	Head	Wrench Length Style	Reversing	Container Type	Brand	Item No.
Double End, 12-Point Box End							
Chrome Finish							
5	¼ in to ⅞ in	0 ° Standard	Standard	No	Pouch	Proto	**1AKR2**
5	¼ in to ⅞ in	0 ° Standard	Standard	Yes	Pouch	Proto	**1UK89**
5	7 mm to 17 mm	0 ° Standard	Stubby	Yes	Pouch	Proto	**1UK90**
6	8 mm to 19 mm	0 ° Standard	Standard	No	Canvas Pouch	Westward	**54DG35**
7	¼ in to ⅞ in	25 ° Offset	Standard	Yes	Wrench Roll	Klein Tools	**3LZP6**
Satin Finish							
8	⅜ in to 1 in	60 ° Offset	Standard	No	Pouch	Proto	**1AKP5**
Double End, 12-Point Box End, 6-Point Box End							
Chrome Finish							
5	¼ in to ⅞ in	0 ° Standard	Stubby	No	None	Proto	**40JC82**
5	7 mm to 17 mm	0 ° Standard	Stubby	No	Pouch	Proto	**4LT85**
7	7 mm to 21 mm	25 ° Offset	Standard	Yes	Pouch	Proto	**4LT82**
Double End, 12-Point Box End, 6-Point Box End, Tether Ready							
Chrome Finish							
7	5/16 in to 1 ¼ in	25 ° Offset	Standard	Yes	Pouch	Proto	**40JD31**
Double End, 6-Point Box End							
Chrome Finish							
3	¼ in to 9/16 in	25 ° Offset	Standard	Yes	Wrench Roll	Klein Tools	**3LZR1**
Double End, Spline Box End							
Black Chrome Finish							
8	7/32 in to 1 ⅛ in	0 ° Standard	Standard	Yes	Pouch	Proto	**1WNC4**
Single End, 12-Point Box End, Insulated							
Chrome Finish							
6	⅜ in to ¾ in	0 ° Standard	Standard	Yes	Molded Case	Wiha Tools	**26X335**
7	8 mm to 19 mm	0 ° Standard	Standard	Yes	Molded Case	Wiha Tools	**26X332**
16	¼ in to 1 ¼ in	15 ° Offset	Standard	No	Wrench Roll	Wiha Tools	**26X333**
16	8 mm to 32 mm	15 ° Offset	Standard	No	Wrench Roll	Wiha Tools	**26X336**

Box End Wrenches

- Alloy steel material, Nonsparking wrenches are aluminum bronze material

Enclosed head end applies more torque and is less likely to slip off the fastener than an open-end wrench.

SAE, Double End, 12-Point Half Moon-Shaped 1AMP5

SAE, Double End 12-Point 446G59

SAE, 12-Point, Straight 22DJ60

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Half Moon, Double End, 12-Point Box End					
Satin Finish					
7/16 in, ½ in	5¾"	15° Offset	Standard	Proto	**1AMP4**
9/16 in, ⅝ in	6½"	15° Offset	Standard	Proto	**1AMP5**
⅝ in, ¾ in	7¼"	15° Offset	Standard	Proto	**1AMP6**
Straight, Double End, 12-Point Box End					
Chrome Finish					
¼ in, 5/16 in	6½"	60° Offset	Standard	Proto	**483J37**
¼ in, 5/16 in	8"	15° Offset	Standard	Proto	**483H38**
5/16 in, ⅜ in	9"	15° Offset	Standard	Proto	**483H39**
⅜ in, 7/16 in	7¾"	7.5° Offset	Standard	Proto	**3R425**
⅜ in, 7/16 in	10"	15° Offset	Standard	Proto	**483H40**
½ in, 9/16 in	8¾"	60° Offset	Standard	Proto	**483J39**
½ in, 9/16 in	11½"	15° Offset	Standard	Proto	**483H42**
¾ in, ⅞ in	11½"	60° Offset	Standard	Proto	**483J42**
Satin Finish					
¼ in, 5/16 in	6½"	40° Offset	Standard	Westward	**5MP90**
⅜ in, 7/16 in	7¾"	40° Offset	Standard	Westward	**5MP91**
½ in, 9/16 in	8¾"	40° Offset	Standard	Westward	**5MP93**
⅝ in, ¾ in	6"	15° Offset	Stubby	Proto	**1AMN3**
15/16 in, 1 in	14⅛"	40° Offset	Standard	Westward	**446G59**
1 ¼ in, 1 ⅜ in	20¼"	15° Offset	Standard	Proto	**1AML1**
1 7/16 in, 1 ½ in	22¼"	15° Offset	Standard	Proto	**1AML3**
Straight, Double End, 12-Point Box End, Nonsparking					
Natural Finish					
¾ in, ⅞ in	12¼"	15° Offset	Standard	Ampco	**4RPG1**
⅞ in, 1 1/16 in	15"	15° Offset	Standard	Ampco	**46C045**
15/16 in, 1 1/16 in	15"	15° Offset	Standard	Ampco	**4RPG3**
1 7/16 in, 1 ⅝ in	19¼"	15° Offset	Standard	Ampco	**21XW27**
1 ⅛ in, 1 5/16 in	19¼"	15° Offset	Standard	Ampco	**21XW26**
1 ¼ in, 1 5/16 in	19¼"	15° Offset	Standard	Ampco	**21XW25**
Straight, Double End, 12-Point Box End, Tether Ready					
Chrome Finish					
7/16 in, ½ in	8"	15° Offset	Standard	Proto	**34GP76**
13/16 in, ⅞ in	13"	15° Offset	Standard	Proto	**34GP79**
1 1/16 in, 1 ⅛ in	17½"	15° Offset	Standard	Proto	**34GP81**
Straight, Double End, Spline Box End					
¼ in, 5/16 in	7¼"	15° Offset	Standard	Proto	**2KGJ5**
⅞ in, 1 in	17⅛"	15° Offset	Long	Proto	**483H53**
Straight, Single End, 12-Point Box End					
Black Oxide Finish					
1 1/16 in	10½"	60° Offset	Extra Long	Proto	**22DJ60**
1 7/16 in	10¾"	60° Offset	Extra Long	Proto	**22DJ66**
1 ¼ in	10¾"	60° Offset	Extra Long	Proto	**22DJ63**
1 ⅛ in	10¾"	60° Offset	Extra Long	Proto	**22DJ61**
1 ⅝ in	11"	60° Offset	Extra Long	Proto	**22DJ68**
1 ½ in	11"	60° Offset	Extra Long	Proto	**22DJ67**
1 13/16 in	13¼"	60° Offset	Extra Long	Proto	**22DJ71**
2 in	13½"	60° Offset	Extra Long	Proto	**22DJ74**
2 3/16 in	13¾"	60° Offset	Extra Long	Proto	**22DJ76**
2 ⅜ in	13¾"	60° Offset	Extra Long	Proto	**22DJ79**
2 ¼ in	13¾"	60° Offset	Extra Long	Proto	**22DJ77**

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Straight, Single End, 12-Point Box End, Insulated					
Chrome Finish					
¼ in	6¼"	15° Offset	Standard	Wiha Tools	**53KE51**
½ in	7½"	15° Offset	Standard	Wiha Tools	**53KE55**
15/16 in	11"	15° Offset	Standard	Wiha Tools	**53KE63**
Straight, Single End, 12-Point Box End, Nonsparking					
Natural Finish					
19/32 in	6"	0° Standard	Standard	Ampco	**49UM48**
1 11/16 in	13"	0° Standard	Standard	Ampco	**49UM68**

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Half Moon, Double End, 12-Point Box End					
Satin Finish					
11 mm, 13 mm	6½"	30° Offset	Standard	Facom	**2TLE1**
19 mm, 22 mm	10"	30° Offset	Standard	Facom	**2TLE7**
Straight, Double End, 12-Point Box End					
Chrome Finish					
17 mm, 19 mm	11¼"	15° Offset	Standard	Proto	**4HJ06**
22 mm, 24 mm	13¾"	7.5° Offset	Standard	Proto	**4HJ11**
27 mm, 30 mm	16"	7.5° Offset	Standard	Proto	**4HJ13**
Satin Finish					
12 mm, 14 mm	8¾"	40° Offset	Standard	Westward	**5MR01**
13 mm, 15 mm	9½"	40° Offset	Standard	Westward	**5MR02**
16 mm, 18 mm	10"	40° Offset	Standard	Westward	**5MR03**
17 mm, 19 mm	10"	40° Offset	Standard	Westward	**5MR04**
Straight, Double End, 12-Point Box End, Nonsparking					
Natural Finish					
6 mm, 7 mm	4"	0° Standard	Standard	Ampco	**49UN30**
8 mm, 9 mm	6"	15° Offset	Standard	Ampco	**49UM88**
8 mm, 10 mm	7⅛"	15° Offset	Standard	Ampco	**49UM89**
17 mm, 19 mm	11"	15° Offset	Standard	Ampco	**49UN04**
Straight, Double End, 12-Point Box End, Tether Ready					
Chrome Finish					
16 mm, 18 mm	10¾"	15° Offset	Standard	Proto	**34GP87**
17 mm, 19 mm	11¼"	15° Offset	Standard	Proto	**34GP88**
22 mm, 24 mm	13¾"	15° Offset	Standard	Proto	**34GP90**
27 mm, 30 mm	16"	15° Offset	Standard	Proto	**34GP91**
Straight, Single End, 12-Point Box End					
Satin Finish					
24 mm	7"	30° Offset	Standard	Facom	**36T974**
30 mm	8¼"	30° Offset	Standard	Facom	**36T975**
41 mm	10½"	30° Offset	Standard	Facom	**36T978**
Straight, Single End, 12-Point Box End, Nonsparking					
Natural Finish					
23 mm	7½"	0° Standard	Standard	Ampco	**49UM11**
26 mm	9"	0° Standard	Standard	Ampco	**49UM14**
29 mm	9"	0° Standard	Standard	Ampco	**49UM17**
46 mm	15¾"	0° Standard	Standard	Ampco	**49UM28**
82 mm	24½"	0° Standard	Standard	Ampco	**49UM45**

For more information on Wrenches, see page 780.

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Straight, Double End, 12-Point					
Black Chrome Finish					
⅜",-7/16"	6"	0° Standard	Standard	Proto	**1XDJ7**
½",-9/16"	7"	0° Standard	Standard	Proto	**1XDJ8**
¾",-7/8"	9½"	0° Standard	Standard	Proto	**1XDK1**
1",-1-1/8"	11½"	0° Standard	Standard	Proto	**1XDK3**
Chrome Finish					
¼",-5/16"	4½"	0° Standard	Standard	Proto	**19C603**
⅜",-7/16"	5½"	0° Standard	Stubby	Proto	**1AMW9**
½",-9/16"	6¾"	25° Offset	Standard	Proto	**1GG35**
½",-9/16"	7"	0° Standard	Standard	Proto	**1UK95**
⅝",-3/4"	8"	0° Standard	Stubby	Proto	**1AMX4**
⅝",-11/16"	8"	0° Standard	Stubby	Proto	**1AMX2**
¾",-7/8"	9¼"	0° Standard	Stubby	Proto	**1AMX3**
13/16",-15/16"	9¼"	0° Standard	Stubby	Proto	**1AMX5**
1",-1-1/16"	15"	0° Standard	Standard	Proto	**1AMX6**
1⅛",-1-1/4"	15"	0° Standard	Standard	Proto	**1AMX7**
Straight, Double End, 12-Point, Tether Ready					
Chrome Finish					
½",-9/16"	7"	0° Standard	Standard	Proto	**34GP64**
¾",-7/8"	9¼"	0° Standard	Standard	Proto	**34GP66**
Straight, Double End, 6-Point					
Chrome Finish					
¼",-5/16"	4¼"	25° Offset	Standard	Proto	**1AMX8**
¼",-5/16"	4½"	0° Standard	Stubby	Proto	**1AMW6**
⅜",-7/16"	5½"	25° Offset	Standard	Proto	**1AMX9**
½",-9/16"	7"	0° Standard	Stubby	Proto	**1AMX0**
Straight, Double End, 6-Point, Tether Ready					
Chrome Finish					
⅜",-7/16"	5½"	25° Offset	Standard	Proto	**34GP46**
¼",-5/16"	4¼"	25° Offset	Standard	Proto	**34GP45**
Straight, Double End, 4-in-1 HVAC Wrench					
Chrome Finish					
3/16",-1/4",-5/16",-3/8"	5½"	0° Standard	Standard	Proto	**1C052**
3/16",-1/4",-1/2",-9/16"	6¾"	25° Offset	Standard	Klein Tools	**2DGC5**
3/16",-1/4",-1/2",-9/16"	6¾"	0° Standard	Standard	Proto	**1C054**
3/16",-1/4",-1/2",-9/16"	7"	0° Standard	Standard	Imperial	**33NR68**
Straight, Double End, 4-Point					
Chrome Finish					
3/16",-1/4",-5/16",-3/8"	5⅜"	25° Offset	Standard	Imperial	**36J604**
3/16",-5/16"	5½"	0° Standard	Standard	Yellow Jacket	**29AU27**
3/16",-1/4",-5/16",-3/8"	7"	25° Offset	Standard	Robinair	**52VN90**
3/16",-1/4",-5/16",-3/8"	8"	0° Standard	Standard	Robinair	**52VN93**
⅜",-1/2"	6¾"	0° Standard	Standard	Yellow Jacket	**29AU40**
3/16",-1/4",-5/16",-3/8"	5½"	0° Standard	Standard	Yellow Jacket	**38D897**

SAE, Straight, Double End, 6-Point, Tether Ready 34GP45

SAE, Straight, Single End, 12-Point 53KE75

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Straight, Single End, 12-Point, Insulated					
Chrome Finish					
7/16"	5½"	0° Standard	Standard	Wiha Tools	**53KE75**
9/16"	6¼"	0° Standard	Standard	Wiha Tools	**53KE77**
Straight, Single End, 4-Point, Tether Ready					
Black Oxide Finish					
9/16",-3/4"	9¼"	0° Standard	Standard	Klein Tools	**22DL60**
9/16",-3/4"	12"	0° Standard	Standard	Klein Tools	**22DL59**
¾",-1",-1-1/8"	13"	0° Standard	Standard	Klein Tools	**15W153**
S-Shaped, Double End, 12-Point					
Chrome Finish					
¾",-7/8"	5½"	0° Standard	Standard	Westward	**1LCH1**

Head Size	Overall Length	Head	Wrench Length Style	Brand	Item No.
Straight, Double End, 12-Point					
Chrome Finish					
10 mm, 11 mm	5⅞"	0° Standard	Standard	Westward	**54PP68**
12 mm, 13 mm	6¾"	0° Standard	Standard	Westward	**54PP69**
15 mm, 17 mm	8"	25° Offset	Standard	Proto	**19C605**
16 mm, 18 mm	8¼"	0° Standard	Standard	Westward	**54PP71**
17 mm, 19 mm	9"	0° Standard	Standard	Westward	**54PP72**
Straight, Double End, 12-Point , Tether Ready					
Chrome Finish					
15 mm, 17 mm	8"	0° Standard	Standard	Proto	**34GP61**
16 mm, 18 mm	8"	25° Offset	Standard	Proto	**34GP55**
19 mm, 21 mm	8¾"	25° Offset	Standard	Proto	**34GP56**
Straight, Double End, 6-Point					
Chrome Finish					
7 mm, 8 mm	4¼"	25° Offset	Standard	Proto	**1ANF1**
9 mm, 10 mm	5½"	0° Standard	Standard	Proto	**1ANC5**
11 mm, 13 mm	6¾"	0° Standard	Standard	Proto	**19C602**
Straight, Double End, 6-Point , Tether Ready					
Chrome Finish					
7 mm, 8 mm	4¼"	25° Offset	Standard	Proto	**34GP50**
9 mm, 10 mm	5½"	0° Standard	Standard	Proto	**34GP58**
11 mm, 13 mm	6¾"	25° Offset	Standard	Proto	**34GP52**
11 mm, 13 mm	7"	0° Standard	Standard	Proto	**34GP59**

SAE, Double End, 12-Point 1LCH1

Ratcheting Box End Wrenches

- Alloy steel material

Gear mechanism for free rotation in one direction without repositioning the wrench. 4-point box ends have a 4-in-1 style that allows the wrench to be flipped over to access a total of four different size square fasteners.

Striking Wrenches

- Alloy steel material, Nonsparking wrenches are aluminum bronze material

Short, thick wrenches have a block shape on the end of the handle that is struck with a hammer to loosen or tighten frozen and rusty nuts and bolts.

SAE, Offset, 12-Point, 1APF9

Head Size	Overall Length	Head Offset Angle	Head Thickness	Brand	Item No.
Offset, 12-Point Box End					
Black Oxide Finish					
1¼"	11"	45 °	13/16 in	Proto	**1APF0**
1½"	12"	45 °	1 in	Proto	**1APF3**
1⅝"	12"	45 °	1 ⅛ in	Proto	**1APF4**
1⅞"	13"	45 °	1 ¼ in	Proto	**1APF8**
2"	13"	45 °	1 ¼ in	Proto	**1APF9**
2⅜"	13"	45 °	1 ½ in	Proto	**1APH4**
2¾"	13"	45 °	1 ½ in	Proto	**1APH8**
3"	16"	45 °	1 ⅞ in	Proto	**1APK0**
3½"	18"	45 °	2 ⅜ in	Proto	**19C636**

Head Size	Overall Length	Head Offset Angle	Head Thickness	Brand	Item No.
Offset, 12-Point Box End, Tether Included					
Black Oxide Finish					
1 13/16"	13"	45 °	1 3/16 in	Proto	**24AK15**
2"	13"	45 °	1 ¼ in	Proto	**24AK18**
Straight, 12-Point Box End					
Black Oxide Finish					
1⅛"	10"	0 °	⅝ in	Proto	**19C620**
1¼"	10"	0 °	¾ in	Proto	**19C619**
Straight, 12-Point Box End, Nonsparking					
Natural Finish					
2¼"	11"	0 °	1 ¼ in	Ampco	**49UR82**
3¼"	14"	0 °	1 ½ in	Ampco	**49UR94**
3½"	15"	0 °	2 in	Ampco	**49UR96**

Head Size	Overall Length	Head Offset Angle	Head Thickness	Brand	Item No.
Straight, 6-Point Box End					
Black Oxide Finish					
1⅝"	11"	0 °	61/64 in	Proto	**1APK5**
2 15/16"	13"	0 °	1 17/32 in	Proto	**1APL2**
3½"	14"	0 °	1 23/32 in	Proto	**1APL4**
Straight, 6-Point Box End, Nonsparking					
Natural Finish					
1⅝"	9"	0 °	1 in	Ampco	**1TEC3**
1⅞"	11"	0 °	1 1/16 in	Ampco	**46C064**
Straight, Rounded Opening Type, Nonsparking					
Natural Finish					
3⅞"	20"	15 °	2 ¼ in	Ampco	**49UU09**
5"	22"	15 °	2 ¾ in	Ampco	**49UU18**

Open End Wrench Sets

- Rounded opening
- Alloy steel material

A fixed, U-shaped opening contacts a fastener on two sides before turning. Access fasteners from top, side, and in tight spaces. **Single-end with interchangeable handle** sets have small, slim heads that attach to an interchangeable handle and access fasteners that a large wrench can't access.

No. of Tools	Range of Head Sizes	Opening Angle (Deg.)	Wrench Length Style	Container Type	Brand	Item No.
Double End						
Chrome Finish						
8	7/32 in to 7/16 in	15°, 75°	Standard	Double Blister	Westward	**2GKT1**
Satin Finish						
8	¼ in to 1 in			Vinyl Pouch	Westward	**1EYD7**
Double End, Insulated						
Black Oxide Finish						
10	5/16 in to 1 ⅝	15°	Standard	Vinyl Pouch	Proto	**1AKR8**
Chrome Finish						
14	⅜ in to 1 ¼ in	15°, 60°	Standard	Vinyl Pouch	Proto	**1Q406**
Satin Finish						
10	¼ in to 1 ⅝ in	15°	Standard	Vinyl Pouch	Proto	**6A544**
12	13/64 in to ⅜ in	15°, 60°	Standard	Vinyl Pouch	Proto	**15V165**
Single End, Insulated						
Chrome Finish						
8	¼ in to ¾ in	15°	Standard	Plastic Tool Roll	Knipex	**2DZC6**
Natural Finish						
8	5/16 in to ¾ in	10°	Standard	Clamshell	Wiha Tools	**26X340**
14	5/16 in to 1 ⅛ in	10°	Standard	Box	Wiha Tools	**26X338**
Single End, Interchangeable Handle						
Steel Plated Finish						
16	2.5 mm to 7 mm, 5/64 in to 5/16 in	30°	Stubby	Canvas Pouch	Moody Tool	**6LER0**

SAE, Double End 1AKR8

SAE & Metric, Single End, with Interchangeable Handle 6LER0

No. of Tools	Range of Head Sizes	Opening Angle (Deg.)	Wrench Length Style	Container Type	Brand	Item No.
Double End						
Chrome Finish						
8	5 mm to 11 mm	15°, 75°	Standard	Double Blister	Westward	**2GKT2**
Double End, Insulated						
Chrome Finish						
11	9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm	15°, 60°	Standard	Vinyl Pouch	Proto	**1Q407**
Satin Finish						
6	8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm	15°	Standard	Vinyl Pouch	Proto	**1AKT0**
10	6 mm to 26 mm	15°	Standard	Vinyl Pouch	Proto	**1AKT1**

Scan. Order. Done.
Details on page A1.

For more information on Wrenches, see page 780.

SAE, Double End
1ANM7

SAE, Single End
19C225

Metric, Single End, Interchangeable Handle
6LEZ2

Open End Wrenches

- Standard head type
- Alloy steel material, Nonsparking wrenches are aluminum bronze material

A fixed opening contacts a fastener on two sides and accesses fasteners from the top, side, and in tight spaces.

Head Size	Overall Length	Opening Type	Opening Angle (Deg.)	Wrench Length Style	Brand	Item No.
SAE, Double End						
Black Oxide Finish						
½",-9/16"	7 7/64 in	Rounded	15°	Standard	Proto	**1ANL5**
¾",-7/8"	9 39/64 in	Rounded	15°	Standard	Proto	**1ANM0**
1½",-1-5/8"	17 1/16 in	Rounded	15°	Standard	Proto	**1ANM7**
Chrome Finish						
9/16"	5 ⅝ in	Rounded	15°, 60°	Standard	Proto	**426F63**
11/16"	6 ½ in	Rounded	15°, 60°	Standard	Proto	**426F68**
¾"	7 in	Rounded	15°, 60°	Standard	Proto	**426F69**
⅞"	8 in	Rounded	15°, 60°	Standard	Proto	**426F71**
15/16"	8 ¾ in	Rounded	15°, 60°	Standard	Proto	**426F72**
1⅛"	11 in	Rounded	15°, 60°	Standard	Proto	**426F75**
1¼"	12 ¼ in	Rounded	15°, 60°	Standard	Proto	**426F76**
1 5/16"	13 ⅛ in	Rounded	15°, 60°	Standard	Proto	**426F78**
1⅜"	13 ¾ in	Rounded	15°, 60°	Standard	Proto	**426F79**
1½"	14 ½ in	Rounded	15°, 60°	Standard	Proto	**426F81**
1⅝"	15 in	Rounded	15°, 60°	Standard	Proto	**426F82**
1⅞"	19 ¾ in	Rounded	15°, 60°	Standard	Proto	**426F85**
2"	21 ¼ in	Rounded	15°, 60°	Standard	Proto	**426F87**
Satin Finish						
¼",-5/16"	4 31/64 in	Rounded	15°	Standard	Proto	**426F29**
7/16",-1/2"	10 in	Rounded	15°	Long	Proto	**1ANM8**
½",-9/16"	7 in	Rounded	15°	Standard	Westward	**1EYL5**
½",-9/16"	7 in	Rounded	15°	Standard	Proto	**426F33**
½",-9/16"	10 in	Rounded	15°	Long	Proto	**1ANM9**
9/16",-5/8"	7 ⅝ in	Rounded	15°	Standard	Proto	**426F34**
9/16",-5/8"	10 in	Rounded	15°	Long	Proto	**1ANN0**
⅝",-3/4"	8 9/16 in	Rounded	15°	Standard	Proto	**426F35**
11/16",-3/4"	10 in	Rounded	15°	Long	Proto	**1ANN1**
13/16",-7/8"	10 in	Rounded	15°	Long	Proto	**1ANN2**
1 1/16",-1-1/4"	13 9/16 in	Rounded	15°	Standard	Proto	**426F43**
1⅜",-1-7/16"	15 ¾ in	Rounded	15°	Standard	Proto	**426F45**
1½",-1-5/8"	17 in	Rounded	15°	Standard	Proto	**426F47**
SAE, Double End, Nonsparking						
Natural Finish						
½",-5/8"	5 ¾ in	Rounded	15°	Standard	Ampco	**4RPD2**
11/16",-7/8"	8 in	Rounded	15°	Standard	Ampco	**4RPD5**
1",-1-1/8"	10 ¼ in	Rounded	15°	Standard	Ampco	**4RPD9**
1⅛",-1-1/4"	12 ¼ in	Rounded	15°	Standard	Ampco	**21XW39**
2⅝",-2-3/4"	18 ¾ in	Rounded	15°	Standard	Ampco	**21XW71**
SAE, Single End						
Black Oxide Finish						
11/16"	5 ⅛ in	Rounded	15°	Standard	Proto	**19C230**
¾"	6 ⅛ in	Rounded	15°	Standard	Proto	**19C234**
15/16"	7 ½ in	Rounded	15°	Standard	Proto	**19C232**
1 1/16"	8 ½ in	Rounded	15°	Standard	Proto	**19C222**
1⅛"	8 ½ in	Rounded	15°	Standard	Proto	**19C225**
1¼"	10 in	Rounded	15°	Standard	Proto	**19C224**
1½"	11 ⅜ in	Rounded	15°	Standard	Proto	**19C223**
1⅝"	13 in	Rounded	15°	Standard	Proto	**19C228**
Chrome Finish						
½"	5 ½ in	Rounded	15°	Standard	Knipex	**10U193**
SAE, Single End, Nonsparking						
Natural Finish						
1⅛"	10 ¼ in	Rounded	15°	Standard	Ampco	**49UP62**
1¾"	14 ¾ in	Rounded	15°	Standard	Ampco	**49UP72**
2⅜"	20 in	Rounded	15°	Standard	Ampco	**49UP81**
3"	24 ¼ in	Rounded	15°	Standard	Ampco	**49UP89**
3¼"	24 ¼ in	Rounded	15°	Standard	Ampco	**49UP91**

Head Size	Overall Length	Opening Type	Opening Angle (Deg.)	Wrench Length Style	Brand	Item No.
SAE, Single End Service Wrenches						
Satin Finish						
13/16"	6 ¼ in	Rounded	30°	Stubby	Proto	**1GF29**
15/16"	6 ⅞ in	Rounded	30°	Stubby	Proto	**1GF27**
1"	6 ⅞ in	Rounded	30°	Stubby	Proto	**1GF26**
1 1/16"	6 ⅞ in	Rounded	30°	Stubby	Proto	**1GF25**
1⅛"	7 in	Rounded	30°	Stubby	Proto	**1GF24**
1 3/16"	7 in	Rounded	30°	Stubby	Proto	**1GF23**
1¼"	7 in	Rounded	30°	Stubby	Proto	**1GF22**
1 5/16"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF21**
1⅜"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF20**
1 7/16"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF19**
1½"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF18**
1 9/16"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF17**
1⅝"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF16**
1 11/16"	7 ⅝ in	Rounded	30°	Stubby	Proto	**1GF15**
1¾"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF14**
1 13/16"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF13**
1⅞"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF12**
1 15/16"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF11**
2"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF10**
2⅛"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF09**
2¼"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF08**
2⅜"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF07**
2½"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF06**
2 9/16"	8 ½ in	Rounded	30°	Stubby	Proto	**1GF05**
SAE, Single End with Interchangeable Handle						
Black Oxide Finish						
3/16"	3 in	Hex	30°	Stubby	Moody Tool	**6LEY0**
5/16"	3 in	Hex	30°	Stubby	Moody Tool	**6LEY2**

Head Size	Overall Length	Opening Type	Opening Angle (Deg.)	Wrench Length Style	Brand	Item No.
Metric, Double End						
Chrome Finish						
13-mm	5 ½ in	Rounded	15°, 60°	Standard	Proto	**426F56**
17-mm	6 ½ in	Rounded	15°, 60°	Standard	Proto	**426F62**
19-mm	7 in	Rounded	15°, 60°	Standard	Proto	**426F65**
Satin Finish						
5-mm	2 61/64 in	Rounded	15°, 75°	Standard	Facom	**36T943**
5.5-mm	2 61/64 in	Rounded	15°, 75°	Standard	Facom	**36T942**
7-mm	3 5/32 in	Rounded	15°, 75°	Standard	Facom	**36T945**
8-mm	3 35/64 in	Rounded	15°, 75°	Standard	Facom	**36T946**
10-mm,-11-mm	5 ¾ in	Rounded	15°	Standard	Westward	**1EYN3**
12-mm,-13-mm	6 ½ in	Rounded	15°	Standard	Westward	**1EYN4**
13-mm	4 23/32 in	Rounded	15°, 75°	Standard	Facom	**36T935**
16-mm,-17-mm	9 27/32 in	Rounded	15°	Standard	Facom	**36T970**
17-mm	5 33/64 in	Rounded	15°, 75°	Standard	Facom	**36T939**
18-mm,-19-mm	9 27/32 in	Rounded	15°	Standard	Facom	**36T971**
Metric, Double End, Nonsparking						
Natural Finish						
8-mm,-10-mm	5 in	Rounded	15°	Standard	Ampco	**46C103**
10-mm,-11-mm	5 in	Rounded	15°	Standard	Ampco	**21XW31**
22-mm,-24-mm	9 in	Rounded	15°	Standard	Ampco	**21XW64**
30-mm,-32-mm	10 ¼ in	Rounded	15°	Standard	Ampco	**4RPF6**
36-mm,-41-mm	14 ⅜ in	Rounded	15°	Standard	Ampco	**21XW79**
Metric, Single End, Nonsparking						
Natural Finish						
27-mm	240 mm	Rounded	15°	Standard	Ampco	**49UP22**
35-mm	310 mm	Rounded	15°	Standard	Ampco	**49UP29**
95-mm	770 mm	Rounded	15°	Standard	Ampco	**49UP42**
Metric, Single End Service Wrenches						
Satin Finish						
19-mm	6 ¼ in	Rounded	30°	Stubby	Proto	**19C239**
24-mm	6 ⅞ in	Rounded	30°	Stubby	Proto	**19C242**
27-mm	6 ⅞ in	Rounded	30°	Stubby	Proto	**19C243**
30-mm	7 in	Rounded	30°	Stubby	Proto	**19C258**
32-mm	7 in	Rounded	30°	Stubby	Proto	**19C244**
36-mm	7 ⅝ in	Rounded	30°	Stubby	Proto	**19C259**
42-mm	7 ⅝ in	Rounded	30°	Stubby	Proto	**19C249**
46-mm	7 ⅝ in	Rounded	30°	Stubby	Proto	**19C251**
55-mm	8 ½ in	Rounded	30°	Stubby	Proto	**19C255**
60-mm	8 ½ in	Rounded	30°	Stubby	Proto	**19C256**
65-mm	8 ½ in	Rounded	30°	Stubby	Proto	**19C257**
Metric, Single End with Interchangeable Handle						
Black Oxide Finish						
3-mm	3 in	Hex	30°	Stubby	Moody Tool	**6LEZ2**
5-mm	3 in	Hex	30°	Stubby	Moody Tool	**6LEZ5**
5.5-mm	3 in	Hex	30°	Stubby	Moody Tool	**6LEZ6**
7-mm	3 in	Hex	30°	Stubby	Moody Tool	**6LEZ8**

Spud Wrenches

- Alloy steel material, Nonsparking wrenches are aluminum bronze material

Feature a tapered spike at the handle end to align bolt holes when installing automotive components, beams, girders, or pipe fittings.

Adjustable
22DL61

SAE Offset Box End
1ARF1

SAE Offset Open End
1APX3

Head Size	Offset	Head Thickness	Overall Length	Brand	Item No.
Adjustable					
Black Oxide Finish					
1 5/16"	0 in	⅝ in	10 47/50 in	Klein Tools	**22DL61**
1½"	0 in	13/16 in	16 in	Klein Tools	**2DGH4**
1⅝"	0 in	13/16 in	16 ⅜ in	Westward	**447Z55**
SAE Nonsparking Offset Open End					
Natural Finish					
11/16"	1 ¼ in	13/16 in	12 in	Ampco	**49UN96**
1¼"	1 ¼ in	13/16 in	15 in	Ampco	**49UN99**
2"	1 ⅜ in	1 1/16 in	22 in	Ampco	**49UP04**

Head Size	Offset	Head Thickness	Overall Length	Brand	Item No.
SAE Offset Box End					
Black Oxide Finish					
⅞"	1 3/32 in	⅝ in	12 in	Proto	**1ARF1**
15/16"	1 3/32 in	⅝ in	14 in	Proto	**1ARF2**
1"	1 5/16 in	11/16 in	14 in	Proto	**1ARF3**
1 1/16"	1 5/16 in	11/16 in	15 in	Proto	**1ARF4**
1⅛"	1 1/16 in	13/16 in	15 in	Proto	**1ARF5**
1¼"	1 1/16 in	13/16 in	17 in	Proto	**1ARF6**
1 5/16"	1 ⅜ in	15/16 in	17 in	Proto	**1ARF7**
1 7/16"	1 ⅜ in	15/16 in	21 in	Proto	**1ARF8**
1½"	1 ½ in	1 in	21 in	Proto	**1ARF9**
1⅝"	1 ½ in	1 ⅛ in	21 in	Proto	**1ARH0**
1 13/16"	1 9/16 in	1 3/16 in	23 in	Proto	**1ARH2**
1⅞"	1 9/16 in	1 3/16 in	23 in	Proto	**1ARH3**
2"	1 21/32 in	1 7/16 in	24 in	Proto	**1ARH4**
2⅜"	2 in	1 ½ in	28 in	Proto	**1ARH6**

Head Size	Offset	Head Thickness	Overall Length	Brand	Item No.
SAE Offset Open End					
Black Oxide Finish					
¾"	¾ in	7/16 in	12 in	Proto	**1APX3**
⅞"	⅞ in	9/16 in	15 in	Proto	**1APX7**
15/16"	⅞ in	9/16 in	15 in	Proto	**19C644**
1"	⅞ in	9/16 in	14 in	Proto	**1APX8**
1 1/16"	1 in	21/32 in	17 in	Proto	**1APX9**
1⅛"	1 in	21/32 in	17 in	Proto	**1ARC0**
1¼"	1 ¼ in	13/16 in	19 in	Proto	**1ARC1**
1 5/16"	1 ¼ in	13/16 in	19 in	Proto	**1ARC2**
1 7/16"	1 ¼ in	13/16 in	20 in	Proto	**1ARC3**
1½"	1 ¼ in	13/16 in	20 in	Proto	**1ARC4**
1⅝"	1 ⅝ in	13/16 in	23 in	Proto	**1ARC5**
2"	1 ⅝ in	13/16 in	24 in	Proto	**1ARC9**

For more information on Wrenches, see page 780.

Metric, Double End, Ratcheting, 12-Point
31XR45

SAE, Double End, Flex-Head, 6-Point
41XR51

SAE, Double End, Tether-Ready, 6-Point
40JC85

PROTO® SK® GEARWRENCH® WESTWARD

Flare Nut Wrench Sets

- Alloy steel material

Rounded wrench head loosens and tightens hexagonal fasteners. Opening in wrench head allows a line or obstruction to pass through it. For use in automotive and plumbing repair.

No. of Tools	Range of Head Sizes	Opening Angle (Deg.)	Brand	Item No.
Double End, Fixed Head, 12-Point				
Black Oxide Finish				
7	⅜ in to ¾ in	0°	Proto	**1AKW0**
10	10 mm to 19 mm	0°	Proto	**31XR45**
Double End, Fixed Head, 6-Point				
Chrome Finish				
5	¼ in to ⅞ in	0°	SK Tools	**12D225**
6	9 mm to 21 mm	0°	SK Tools	**12D226**
11	184 in to ⅞ in, 9 mm to 21 mm	0°	SK Tools	**22DK69**
Satin Finish				
3	⅜ in to 11/16 in	0°	Proto	**1AKT7**
5	7mm to 17 mm	0°	Proto	**1AKT9**
7	⅜ in to ¾ in	0°	Proto	**5F344**
7	⅜ in to ¾ in	0°	Proto	**1AKT8**
9	38 in to 11/16 in, 9 mm to 21 mm	0°	Proto	**35GM75**
Double End, Flexible Head, 6-Point				
Chrome Finish				
3	⅜ in to 11/16 in	15 °	Gearwrench	**41XR51**
3	9 mm to 141 mm	15 °	Gearwrench	**41XR52**
8	⅜ in to ⅞ in, 9 mm to 14 mm	—	Westward	**4YR29**
Double End, Fixed Head, 6-Point, Tether-Ready				
Satin Finish				
3	⅜ in to 11/16 in	0°	Proto	**40JC85**
5	7 mm to 17 mm	0°	Proto	**40JD05**

SK® PROTO® GEARWRENCH® WESTWARD

Flare Nut Wrenches

Feature a rounded head for more contact with hexagonal fasteners than an open-end wrench. Flare nut wrenches are less likely to damage fasteners made from softer metals such as brass and copper.

Head Size	Overall Length	Opening Angle (Deg.)	Brand	Item No.
SAE, Double End, Standard-Head, 12-Point				
Chrome Finish				
1 in, 1 ⅛ in	10 in	0°	SK Tools	**21A446**
Satin Finish				
½ in	6 ½ in	15°	Proto	**5F355**
½ in, 9/16 in	7 ½ in	15°	Proto	**426D98**
9/16 in	7 in	15°	Proto	**5F356**
⅝ in, 11/16 in	8 ¾ in	15°	Proto	**426D99**
¾ in	9 ¼ in	15°	Proto	**5F359**
SAE, Single End, Ratcheting 12-Point				
Black Oxide Finish				
9/16 in	7 ¼ in	15°	Proto	**1ANW3**
⅝ in	7 ¼ in	15°	Proto	**1ANW4**
11/16 in	7 ¼ in	15°	Proto	**1ANW5**
¾ in	7 ¼ in	15°	Proto	**1ANW6**
13/16 in	9 ½ in	15°	Proto	**1ANW7**
⅞ in	9 ½ in	15°	Proto	**1ANW8**
15/16 in	9 ½ in	15°	Proto	**1ANW9**
SAE, Double End, Standard-Head, 6-Point				
Chrome Finish				
⅜ in, 7/16 in	5 ¼ in	0°	SK Tools	**12C583**
⅝ in, ¾ in	7 ¼ in	0°	SK Tools	**21A445**
⅝ in, 11/16 in	7 in	0°	SK Tools	**12C585**
¾ in, ⅞ in	7 ¾ in	0°	SK Tools	**12C586**
Satin Finish				
⅜ in	5 ¾ in	15°	Proto	**1ANT3**
⅜ in, 7/16 in	6 in	10°	Westward	**5MR55**
⅜ in, 7/16 in	6 ¼ in	15°	Proto	**1ANX1**
7/16 in	6 in	15°	Proto	**1ANT4**
½ in	6 ½ in	15°	Proto	**1ANT5**
½ in, 9/16 in	7 in	10°	Westward	**5MR58**
½ in, 9/16 in	7 ½ in	15°	Proto	**1ANX2**
9/16 in	7 in	15°	Proto	**1ANT6**
⅝ in, 11/16 in	7 ½ in	10°	Westward	**5MR59**
⅝ in	7 ¾ in	15°	Proto	**1ANT7**
⅝ in, 11/16 in	8 ¾ in	15°	Proto	**1ANX3**
11/16 in	8 ¾ in	15°	Proto	**1ANT8**
¾ in, ⅞ in	9 in	10°	Westward	**5MR60**
¾ in, ⅞ in	9 ½ in	15°	Proto	**19ZC55**
¾ in	9 ¼ in	15°	Proto	**1ANT9**
SAE, Double End, Tether-Ready, 6-Point				
Satin Finish				
⅜ in, 7/16 in	6 ¼ in	15°	Proto	**34GP67**
½ in, 9/16 in	7 ½ in	15°	Proto	**34GP68**
⅝ in, 11/16 in	8 ¾ in	15°	Proto	**34GP69**
SAE, Double End, Flex-Head, 6-Point				
Chrome Finish				
⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in, 11/16 in	8 429/1000 in	15 °	Gearwrench	**41XR51**
½ in, 9/16 in	7 1/32 in	15°	Westward	**4NZK8**
½ in, 9/16 in	8 ¼ in	15°	Gearwrench	**41XP94**
⅝ in, 11/16 in	9 ¼ in	15°	Gearwrench	**41XP95**

SAE, Double End, Flex-Head, 6-Point
4NZK8

Metric, Double End, Standard Head, 6-Point
13N597

Metric, Single End, Ratcheting, 12-Point
31XR46

Head Size	Overall Length	Opening Angle (Deg.)	Brand	Item No.
Metric, Double End, Standard-Head, 12-Point				
Satin Finish				
7 mm, 8 mm	5 ¾ in	15°	Proto	**5F346**
10 mm, 12 mm	7 in	15°	Proto	**5F348**
13 mm, 14 mm	7 ½ in	15°	Proto	**5F349**
15 mm, 17 mm	8 in	15°	Proto	**5F350**
19 mm, 21 mm	9 ½ in	15°	Proto	**5F352**
Metric, Double End, Standard-Head, 6-Point				
Chrome Finish				
16 mm, 18 mm	7 in	0°	SK Tools	**13N597**
19 mm, 21 mm	7 ¾ in	0°	SK Tools	**13N598**
Satin Finish				
7 mm, 8 mm	5 ¾ in	15°	Proto	**1ANX4**
10 mm, 12 mm	6 ½ in	10°	Westward	**5MR54**
10 mm, 12 mm	6 ¼ in	15°	Proto	**1ANX6**
13 mm, 14 mm	7 in	10°	Westward	**5MR56**
13 mm, 14 mm	7 ½ in	15°	Proto	**1ANX7**
15 mm, 17 mm	7 ½ in	10°	Westward	**5MR57**
16 mm, 18 mm	8 ¾ in	15°	Proto	**1ANX9**
19 mm, 21 mm	9 ½ in	15°	Proto	**1APC0**
Metric, Double End, Tether-Ready, 6-Point				
Satin Finish				
9 mm, 11 mm	6 ¼ in	15°	Proto	**34GP71**
10 mm, 12 mm	7 in	15°	Proto	**34GP72**
13 mm, 14 mm	7 ½ in	15°	Proto	**34GP73**
15 mm, 17 mm	8 in	15°	Proto	**34GP74**
Metric, Single End, Ratcheting 12-Point				
Black Oxide Finish				
10 mm	5 ½ in	15°	Proto	**31XR46**
12 mm	5 ½ in	15°	Proto	**31XR48**
14 mm	7 ¼ in	15°	Proto	**31XR50**
19 mm	7 ¼ in	15°	Proto	**31XR55**
Metric, Double End, Flex Head, 6-Point				
Chrome Finish				
9 mm, 11 mm	6 ½ in	15°	Gearwrench	**41XP86**
10 mm, 12 mm	7 ½ in	15°	Westward	**4NZK1**
10 mm, 12 mm	7 ½ in	15°	Gearwrench	**41XP87**
13 mm, 14 mm	8 ½ in	15°	Westward	**4NZK2**
15 mm, 17 mm	9 ¼ in	15°	Westward	**4NZK3**
Full Polish Finish				
13 mm, 14 mm	8 ¼ in	15 °	Gearwrench	**41XP88**

PROTO® WESTWARD® GEARWRENCH®

Crowfoot Wrench Sets

- Alloy steel material
- Chrome finish

Interchangeable open-end wrench heads attach to the drive end of a ratchet, socket handle, or extension to access fasteners from the top, side, and in tight spaces.

Metric Ratcheting Open End
41XL71

Drive Size	No. of Tools	Range of Head Sizes	Opening Type	Brand	Item No.
Metric Flare Nut					
½ in	39	15/16 in to 1 13/16 in	Hex, 12-Point Flare Nut	Proto	**15V180**
Metric Open End					
¼ in	7	7 mm to 14 mm	Hex	Proto	**2KGH7**
⅜ in	12	10 mm to 21 mm	Rounded	Westward	**54PR45**
⅜ in	16	9 mm to 24 mm	Hex	Proto	**1UDT8**
Metric Ratcheting Open End					
⅜ in	10	10 mm to 19 mm	Rounded	Gearwrench	**41XL71**
SAE & Metric Open End					
⅜ in	21	⅜ in to 1 in; 10 mm to 19 mm	Hex	Proto	**33TA24**
SAE Flare Nut					
⅜ in	8	⅝ in to 1 1/16 in	12-Point Flare Nut	Proto	**1FX60**
½ in	15	1 ⅛ in to 2 in	12-Point Flare Nut	Proto	**2KGJ2**

Drive Size	No. of Tools	Range of Head Sizes	Opening Type	Brand	Item No.
SAE Open End					
¼ in	8	¼ in to 9/16 in	Hex	Proto	**15V163**
⅜ in	9	⅜ in to ⅞ in	Hex	Proto	**1UDT7**
⅜ in	11	⅜ in to 1 in	Rounded	Westward	**54PR33**
⅜ in	15	⅜ in to 1 ¼ in	Hex	Proto	**2KGH9**
⅜ in	27	⅜ in to 2 in	Hex	Proto	**15V155**
⅜ in, ½ in	30	⅜ in to 2 in		Proto	**483J79**
⅜ in	43	⅜ in to 2 ⅜ in	Hex	Proto	**15V171**
½ in	15	1 1/16 in to 2 in	Hex	Proto	**2KGJ1**
½ in	22	15/16 in to 2 ½ in	Hex	Proto	**15V179**
SAE Open End & Flare Nut					
⅜ in	53	⅜ in to 2 ⅜ in	6-Point Flare Nut, 12-Point Flare Nut	Proto	**15V156**
SAE Ratcheting Open End					
⅜ in	11	⅜ in to 1 in	Rounded	Gearwrench	**41XL88**

For more information on Wrenches, see page 780.

SAE Flare Nut
426G88

Metric Ratcheting Open End
41YF65

SAE Box End Torque Adapter
1Q811

PROTO® WESTWARD GEARWRENCH®

Crowfoot Wrenches

- Alloy steel material

Flare-nut and open-end wrench heads attach to a ratchet wrench or socket wrench handle to loosen or tighten fasteners in hard-to-reach spaces. **SAE box end torque adapters** have an enclosed head end that grips the entire head of the fastener and allows a specific torque to be applied.

Drive Size	Head Size	Opening Type	Overall Length	Brand	Item No.
SAE Flare Nut					
⅜ in	⅝ in	12-Point Flare Nut	1 ¾ in	Proto	**426G88**
	11⁄16 in	12-Point Flare Nut	1 13⁄16 in	Proto	**426G90**
	¾ in	12-Point Flare Nut	1 15⁄16 in	Proto	**426G92**
	13⁄16 in	12-Point Flare Nut	2 in	Proto	**426G94**
	⅞ in	12-Point Flare Nut	2 ¼ in	Proto	**426G96**
	15⁄16 in	12-Point Flare Nut	2 ⅜ in	Proto	**426G97**
	1 1⁄16 in	12-Point Flare Nut	2 ¾ in	Proto	**426G99**
	1 in	12-Point Flare Nut	2 ½ in	Proto	**426G98**
½ in	1 ⅛ in	12-Point Flare Nut	2 13⁄16 in	Proto	**426H01**
	1 3⁄16 in	12-Point Flare Nut	2 ⅞ in	Proto	**426H02**
	1 ¼ in	12-Point Flare Nut	3 in	Proto	**426H03**
	1 ½ in	12-Point Flare Nut	3 7⁄16 in	Proto	**426H07**
	1 7⁄16 in	12-Point Flare Nut	3 ⅜ in	Proto	**426H06**
	1 ⅝ in	12-Point Flare Nut	3 ¾ in	Proto	**426H09**
	1 ¾ in	12-Point Flare Nut	3 ⅞ in	Proto	**426H11**
	1 5⁄16 in	12-Point Flare Nut	3 1⁄16 in	Proto	**426H04**
	1 ⅜ in	12-Point Flare Nut	3 5⁄16 in	Proto	**426H05**
	1 ⅞ in	12-Point Flare Nut	4 ¼ in	Proto	**426H13**
	1 13⁄16 in	12-Point Flare Nut	4 in	Proto	**426H12**
	2 in	12-Point Flare Nut	4 7⁄16 in	Proto	**426H15**
SAE Open End					
¼ in	¼ in	Rounded	15⁄16 in	Proto	**449P60**
	5⁄16 in	Rounded	1 in	Proto	**449P62**
⅜ in	7⁄16 in	Rounded	1 3⁄16 in	Proto	**449P78**
	½ in	Rounded	1 5⁄16 in	Proto	**449P81**
	9⁄16 in	Rounded	1 9⁄32 in	Proto	**449P84**
	⅝ in	Rounded	1 ½ in	Proto	**449P87**
	11⁄16 in	Rounded	1 31⁄64 in	Proto	**449P90**
	¾ in	Rounded	1 41⁄64 in	Proto	**449P93**
	¾ in	Rounded	1 ⅞ in	Westward	**54PR40**
	13⁄16 in	Rounded	1 ⅝ in	Proto	**449P95**
	⅞ in	Rounded	1 19⁄32 in	Proto	**449P96**
	⅞ in	Rounded	2 7⁄32 in	Westward	**54PR42**
	15⁄16 in	Rounded	1 ⅝ in	Proto	**449P97**
	15⁄16 in	Rounded	2 11⁄32 in	Westward	**54PR43**
	1 in	Rounded	1 49⁄64 in	Proto	**449P98**
	1 ⅛ in	Rounded	2 7⁄32 in	Proto	**449R01**
	1 ¼ in	Rounded	2 5⁄32 in	Proto	**449R03**
	1 1⁄16 in	Rounded	2 3⁄16 in	Proto	**449P99**
	1 ½ in	Rounded	2 11⁄16 in	Proto	**449R07**
	1 ⅜ in	Rounded	2 ½ in	Proto	**449R05**
	1 3⁄16 in	Rounded	2 9⁄32 in	Proto	**449R02**
	1 13⁄16 in	Rounded	3 1⁄16 in	Proto	**449R12**
	1 ⅞ in	Rounded	3 ⅛ in	Proto	**449R13**
	2 in	Rounded	3 ⅜ in	Proto	**449R15**
	2 3⁄16 in	Rounded	3 ⅝ in	Proto	**449R18**
	2 ¾ in	Rounded	4 11⁄16 in	Proto	**449R27**
	2 ⅝ in	Rounded	4 ½ in	Proto	**449R25**
	2 ⅞ in	Rounded	4 15⁄16 in	Proto	**449R29**
	2 9⁄16 in	Rounded	4 5⁄16 in	Proto	**449R24**
	3 in	Rounded	5 in	Proto	**449R31**

Drive Size	Head Size	Opening Type	Overall Length	Brand	Item No.
½ in	15⁄16 in	Rounded	2 13⁄16 in	Proto	**449R32**
	1 1⁄16 in	Rounded	2 ⅞ in	Proto	**449R34**
	1 in	Rounded	2 13⁄16 in	Proto	**449R33**
	1 ¼ in	Rounded	3 5⁄16 in	Proto	**449R37**
	1 ⅛ in	Rounded	3 in	Proto	**449R35**
	1 7⁄16 in	Rounded	3 ⅜ in	Proto	**449R40**
	1 ½ in	Rounded	3 7⁄16 in	Proto	**449R41**
	1 ⅞ in	Rounded	3 ⅞ in	Proto	**449R47**
	1 13⁄16 in	Rounded	3 ⅞ in	Proto	**449R46**
	1 5⁄16 in	Rounded	3 5⁄16 in	Proto	**449R38**
	1 ⅜ in	Rounded	3 ⅜ in	Proto	**449R39**
	1 3⁄16 in	Rounded	3 in	Proto	**449R36**
	1 ¾ in	Rounded	3 13⁄16 in	Proto	**449R45**
	1 ⅝ in	Rounded	3 ½ in	Proto	**449R43**
	2 in	Rounded	3 15⁄16 in	Proto	**449R48**
	2 ¼ in	Rounded	4 ⅜ in	Proto	**449R50**
	2 ⅛ in	Rounded	4 1⁄16 in	Proto	**449R49**
	2 ⅜ in	Rounded	4 7⁄16 in	Proto	**449R51**
	2 ½ in	Rounded	4 ½ in	Proto	**449R53**

Drive Size	Head Size	Opening Type	Overall Length	Brand	Item No.
Metric Flare Nut					
⅜ in	9 mm	6-Point Flare Nut	1 27⁄32 in	Proto	**5NAX6**
	10 mm	6-Point Flare Nut	1 11⁄32 in	Proto	**5NAX7**
	11 mm	6-Point Flare Nut	1 ⅜ in	Proto	**5NAX8**
	12 mm	6-Point Flare Nut	1 15⁄32 in	Proto	**5NAY0**
	14 mm	6-Point Flare Nut	1 ½ in	Proto	**5NAY3**
	15 mm	6-Point Flare Nut	1 ⅝ in	Proto	**5NAY4**
	16 mm	6-Point Flare Nut	1 ⅝ in	Proto	**5NAY6**
	17 mm	6-Point Flare Nut	1 23⁄32 in	Proto	**5NAY7**
Metric Open End					
¼ in	8 mm	Rounded	31⁄32 in	Proto	**449P61**
⅜ in	13 mm	Rounded	1 ½ in	Proto	**449P77**
	13 mm	Rounded	1 ⅜ in	Westward	**1EYR4**
	17 mm	Rounded	1 23⁄32 in	Proto	**449P83**
	17 mm	Rounded	1 ¾ in	Westward	**54PR53**
	18 mm	Rounded	1 15⁄16 in	Proto	**449P85**
	19 mm	Rounded	1 15⁄16 in	Westward	**54PR55**
	19 mm	Rounded	1 15⁄16 in	Proto	**449P86**
	24 mm	Rounded	2 13⁄32 in	Proto	**449P94**
½ in	22 mm	Rounded	2 7⁄32 in	Proto	**19C324**
	24 mm	Rounded	2 13⁄32 in	Proto	**19C326**
	26 mm	Rounded	3 in	Proto	**19C328**
	27 mm	Rounded	3 ½ in	Proto	**19C329**
	28 mm	Rounded	3 13⁄16 in	Proto	**19C330**
	29 mm	Rounded	3 13⁄16 in	Proto	**19C331**
	30 mm	Rounded	3 ⅞ in	Proto	**19C332**
	32 mm	Rounded	3 ⅞ in	Proto	**19C333**
	36 mm	Rounded	4 1⁄16 in	Proto	**19C335**
	38 mm	Rounded	4 ⅜ in	Proto	**19C336**
	41 mm	Rounded	4 7⁄16 in	Proto	**19C337**
	42 mm	Rounded	4 7⁄16 in	Proto	**19C338**
	46 mm	Rounded	4 ½ in	Proto	**19C339**
Metric Ratcheting Open End					
⅜ in	10 mm	Hex	1 ⅜ in	Gearwrench	**41YF65**
	12 mm	Hex	1 ½ in	Gearwrench	**41YF68**
	13 mm	Hex	1 37⁄64 in	Gearwrench	**41YF69**
	14 mm	Hex	1 21⁄32 in	Gearwrench	**41YF70**
	15 mm	Hex	1 11⁄16 in	Gearwrench	**41YF71**
	16 mm	Hex	1 25⁄32 in	Gearwrench	**41YF72**
	17 mm	Hex	1 ⅞ in	Gearwrench	**41YF73**
	18 mm	Hex	1 63⁄64 in	Gearwrench	**41YF74**

Drive Size	Size	Overall Length	Brand	Item No.
SAE Box End Torque Adapters				
⅜ in	⅜ in	2 11⁄16 in	Proto	**1Q811**
	9⁄16 in	2 13⁄16 in	Proto	**1Q814**
	½ in	2 13⁄16 in	Proto	**1Q813**
	¾ in	2 15⁄16 in	Proto	**1Q817**
	11⁄16 in	2 15⁄16 in	Proto	**1Q816**
	7⁄16 in	2 ¾ in	Proto	**1Q812**
	⅝ in	2 ⅞ in	Proto	**1Q815**
	⅞ in	3 1⁄16 in	Proto	**1Q819**

1NYD3

Insulated 26X328

WESTWARD CRESCENT Milwaukee CHANNELLOCK JONARD TOOLS PROTO® IRWIN VISE-GRIP Wiha

Adjustable Wrench Sets

- Hang hole end style
- Alloy steel material

Crescent wrenches have adjustable jaws that provide a tight grip to turn a variety of bolts, nuts, and fastener sizes.

No. of Tools	Range of Lengths	Jaw Cap.	Grip Style	Measuring Scale	Finish	Brand	Item No.
General Purpose Adjustable Wrench Sets							
2	4" to 6"	½ in, ¾ in	Cushion Grip	Yes	Chrome	Westward	**1NYD4**
	6" to 10"	15⁄16 in, 1 5⁄16 in	Cushion Grip	Yes	Black Oxide	Crescent	**54XN39**
	6" to 10"	15⁄16 in, 1 ⅜ in	Plain	Yes	Chrome	Milwaukee	**48ZT20**
	6" to 10"	15⁄16 in, 1 9⁄32 in	Cushion Grip	Yes	Black Phosphate	Westward	**20PG95**
	6¼" to 10"	5⁄16 in, 1 ⅜ in	Plain	Yes	Chrome	Channellock	**3KGZ7**
	6¼" to 10"	15⁄16 in, 1 ⅜ in	Cushion Grip	Yes	Chrome	Channellock	**3KGZ9**
	8" to 10"	1 in, 1 ⅛ in	Cushion Grip	Yes	Chrome	Westward	**1NYD3**
3	6" to 10"	¾ in, 1 in, 1 ⅛ in	Cushion Grip	Yes	Chrome	Westward	**1NYD2**
	6" to 10"	¾ in, 1 in, 1 ⅛ in	Plain	Yes	Black Phosphate	Westward	**1NYB9**
	6" to 10"	¾ in, 1 in, 1 ⅛ in	Plain	Yes	Chrome	Westward	**1NYB8**
	6" to 10"	15⁄16 in, 1 ⅛ in, 1 5⁄16 in	Cushion Grip	Yes	Chrome	Jonard Tools	**34RR10**
	8" to 12"	1 ⅛ in, 1 5⁄16 in, 1 ½ in	Plain	No	Satin	Proto	**54JG20**
4	6" to 12"	1 in, 1 ⅛ in, 1 ¼ in, 1 ½ in	Cushion Grip	Yes	Chrome	Irwin Vise-Grip	**3LXP4**
Insulated Adjustable Wrench Sets							
3	8" to 12"	1 in, 1 ½ in	Insulated	Yes	Natural	Wiha Tools	**26X328**

Adjustable Wrench with Valve Wheel End 38HV33

Automatic Locking 54XN35

Insulated Hammer Head 31CE70

Lever Locking 5LP79

Overall Length	Jaw Cap.	Grip Style	Measuring Scale	End Style	Material	Finish	Brand	Item No.
Adjustable Wrenches with Valve Wheel End								
8"	15/16"	Plain	No	Solid	Alloy Steel	Chrome	Reed	**38HV33**
Automatic Locking Adjustable Wrenches								
6"	15/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Oxide	Crescent	**54XN35**
8"	1 1/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Oxide	Crescent	**54XN36**
10"	1 5/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Oxide	Crescent	**54XN37**
12"	1 1/2"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Oxide	Crescent	**54XN38**
15 5/32"	2 1/16"	Plain		Hang Hole	Alloy Steel	Black Oxide	Proto	**61TH95**
	2 1/16"	Plain		Hang Hole	Alloy Steel	Chrome	Proto	**61TH90**
General Purpose Adjustable Wrenches								
4"	1/2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYA9**
	1/2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H937**
	1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYA1**
	1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC1**
	11/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D020**
	11/16"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J28**
4 11/32"	3/4"	Cushion Grip		Hang Hole	Alloy Steel	Chrome	Proto	**61TH84**
	3/4"	Plain		Hang Hole	Alloy Steel	Black Oxide	Proto	**61TH64**
	3/4"	Plain		Hang Hole	Alloy Steel	Chrome	Proto	**61TH63**
4 1/2"	1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H932**
6"	3/4"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB1**
	15/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H944**
	15/16"	Cushion Grip	Yes	Hang Hole	Plastic	Chrome	Klein Tools	**2DEZ4**
	15/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D013**
	15/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT21**
	15/16"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D021**
	15/16"	Ergonomic	Yes	Hang Hole	Vinyl	Chrome	Jonard Tools	**22KX94**
	15/16"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J29**
	15/16"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H938**
	15/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC2**
	15/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**3KGX5**
	1"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Black Oxide	STANLEY	**38WF09**
	1"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Irwin Vise-Grip	**3JZN6**
	1 5/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**2ELD6**
6 5/16"	15/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC7**
6 11/32"	1 1/32"	Cushion Grip		Hang Hole	Alloy Steel	Chrome	Proto	**61TH85**
8"	1"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB2**
	1"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	STANLEY	**2MU44**
	1 1/18"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D014**
	1 1/8"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Irwin Vise-Grip	**3LXN4**
	1 1/8"	Cushion Grip	Yes	Hang Hole	Plastic	Chrome	Klein Tools	**2DEZ5**
	1 1/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D022**
	1 1/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT22**
	1 1/8"	Ergonomic	Yes	Hang Hole	Vinyl	Chrome	Jonard Tools	**22KX95**
	1 1/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC3**
	1 11/64"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYA3**
	1 3/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H945**
	1 3/16"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J30**
	1 3/16"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H939**
	1 3/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**3KGX6**
	1 1/2"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**1YHL6**
	1 1/2"	Cushion Grip	Yes	Hang Hole	Plastic	Natural	Klein Tools	**45PZ58**
	1 1/2"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT26**
10"	1 1/8"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB3**
	1 1/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	STANLEY	**38WF07**
	1 1/4"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Irwin Vise-Grip	**3LXN7**
	1 9/32"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D015**
	1 9/32"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D023**
	1 5/16"	Cushion Grip	Yes	Hang Hole	Plastic	Chrome	Klein Tools	**2DEZ2**
	1 5/16"	Ergonomic	Yes	Hang Hole	Vinyl	Chrome	Jonard Tools	**22KX92**
	1 5/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC4**
	1 3/8"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H946**
	1 3/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT23**
	1 3/8"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J31**
	1 3/8"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H940**
	1 3/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**3KGX7**
	1 7/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	STANLEY	**2MU47**
10 1/4"	1 5/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC9**

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Adjustable Wrenches

Adjustable jaws tighten or loosen a range of fastener sizes. **Valve wheel end** wrenches grip the rims of hand-operated valve wheels to open and close valves. **Automatic locking** wrenches lock on the fastener head once tightly adjusted. **Insulated** handles reduce fatigue and protect from electric shock. **Insulated hammer head** wrenches have a flat side for striking surfaces. **Insulated nonsparking** wrenches won't spark during use in flammable environments. Iron-free and nonmagnetic, they are suitable for use with magnetic resonance imaging (MRI) equipment. **Lever-locking** wrenches have a lever that locks jaws in place to tightly grip the fastener.

Overall Length	Jaw Cap.	Grip Style	Measuring Scale	End Style	Material	Finish	Brand	Item No.
12"	1 11/32"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB4**
	1 3/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYA5**
	1 3/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	STANLEY	**38WF08**
	1 1/2"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Irwin Vise-Grip	**3LXP1**
	1 1/2"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H947**
	1 1/2"	Cushion Grip	Yes	Hang Hole	Plastic	Chrome	Klein Tools	**2DEZ3**
	1 1/2"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D016**
	1 1/2"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D024**
	1 1/2"	Ergonomic	Yes	Hang Hole	Vinyl	Chrome	Jonard Tools	**22KX93**
	1 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H941**
	1 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC5**
	1 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H933**
	1 9/16"	Cushion Grip	Yes	Hang Hole	Alloy Steel	Black Oxide	STANLEY	**38WF11**
	1 9/16"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J32**
14 11/32"	1 5/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT24**
15"	1 11/32"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB5**
	1 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H942**
	1 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H934**
	1 11/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYC6**
	1 11/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYA6**
	1 3/4"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Milwaukee	**48ZT25**
	1 7/8"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J33**
	1 31/32"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D017**
18"	2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**1NYB6**
	2 1/8"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Channellock	**32H943**
	2 1/8"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H935**
	2 1/4"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**1NYA7**
	2 3/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D018**
	2 3/8"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D026**
	2 3/8"	Plain	No	Hang Hole	Alloy Steel	Chrome	Proto	**483J34**
24"	2 7/16"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**32H936**
	2 3/4"	Ergonomic	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**31D019**
	2 3/4"	Ergonomic	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**31D027**
24 1/16"	2 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Black Phosphate	Westward	**53KA28**
	2 1/2"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Westward	**53KA29**
24 3/16"	2 27/32"	Plain		Hang Hole	Alloy Steel	Black Oxide	Proto	**61TH83**
	2 27/32"	Plain		Hang Hole	Alloy Steel	Chrome	Proto	**61TH77**
30"	3"	Plain	Yes	Hang Hole	Alloy Steel	Chrome	Channellock	**19TT63**
Insulated Adjustable Wrenches								
8"	1"	Insulated	Yes	Solid	Insulated Rubber Dipped	Natural	Wiha Tools	**26X329**
10"	1 1/4"	Insulated	Yes	Solid	Insulated Rubber Dipped	Natural	Wiha Tools	**26X325**
12"	1 1/2"	Insulated	Yes	Solid	Insulated Rubber Dipped	Natural	Wiha Tools	**26X326**
Insulated Hammer Head Adjustable Wrenches								
12"	1 3/4"	Insulated	Yes	Hang Hole	Nylon Thermoplastic	Chrome	Jameson/Itl	**31CE70**
Insulated Nonsparking Adjustable Wrenches								
4"	1 1/8"	Insulated	No	Hang Hole	Aluminum Bronze	Natural	Ampco	**24Y885**
10"	1 5/16"	Insulated	No	Hang Hole	Aluminum Bronze	Natural	Ampco	**24Y886**
Lever-Locking Adjustable Wrenches								
10"	1 1/4"	Plain	No	Hang Hole	Alloy Steel	Chrome	STANLEY	**5LP79**

Multi-Size Adjustable 36T985

Adjustable Face 1APC1

Adjustable Hook 1APC4

GEDORE PROTO FACOM WESTWARD AMPCO

Spanner Wrenches

Wrenches with pins or hooks tighten or loosen threaded collars, retainer rings, shafts, or pipes and faucets in hard-to-reach areas.

Adjustable-pin spanners—An adjustable head tightens or loosens a variety of bearings, lock nut rings, and servicing collars.

Multi-size adjustable pin spanners—Multiple interchangeable pins allow for installation or removal of a variety of nut sizes.

Fixed-pin spanners—A curved arm with a small pin or nub fits into the nut to loosen or tighten it.

Adjustable face spanners—Hinged and V-shaped to fit different diameters. They grip round holes on the face of collars, bearings, and other machine tool components to loosen or tighten them.

Adjustable-hook spanners—A hinged hook or adjustable head with a hook fits into a hole on the bearing, lock nut ring, and servicing collar to loosen or tighten it.

Fixed-hook spanners—A curved arm with a hook on the end fits into the nut to loosen or tighten it.

Cap.	Pin Diameter	Pin Length	Overall Length	Hook Thickness	Hook Depth	Nonsparking	Brand	Item No.
Adjustable-Pin								
Alloy Steel, Black Oxide								
¾ in to 2 in	⅛ in	⅛ in	6 ½ in	11⁄32 in	⅛ in	No	Proto	**1FJ44**
¾ in to 2 in	3⁄16 in	5⁄32 in	6 ½ in	11⁄32 in	⅛ in	No	Proto	**1FJ43**
1 ¼ in to 3 in	3⁄16 in	3⁄16 in	8 ¼ in	13⁄32 in	5⁄32 in	No	Proto	**1FJ42**
1 ¼ in to 3 in	¼ in	7⁄32 in	8 ¼ in	13⁄32 in	5⁄32 in	No	Proto	**1FJ41**
2 in to 4 ¾ in	¼ in	¼ in	11 ½ in	15⁄32 in	3⁄16 in	No	Proto	**1FJ40**
4 ½ in to 6 ¼ in	⅜ in	¼ in	12 in	15⁄32 in	¼ in	No	Proto	**1FJ39**
Multi-Size Adjustable Pin								
Alloy Steel, Satin								
3 15⁄16 in	5⁄16 in	⅜ in	10 ½ in	—	—	No	Facom	**36T985**
Fixed-Pin								
Alloy Steel, Black Oxide								
1 ¼ in to 3 in	3⁄16 in	3⁄16 in	8 1⁄16 in	13⁄32 in	2 in	No	Westward	**5RDZ4**
1 ¼ in to 3 in	¼ in	¼ in	8 1⁄16 in	13⁄32 in	2 in	No	Westward	**5RDZ5**
2 in to 4 ¾ in	¼ in	¼ in	11 ¼ in	15⁄32 in	2 ¾ in	No	Westward	**5RDZ6**
4 ½ in to 6 ¼ in	⅜ in	⅜ in	12 ¼ in	15⁄32 in	3 in	No	Westward	**5RDZ7**
Alloy Steel, Manganese Phosphate								
80 mm to 90 mm	15⁄64 in	15⁄64 in	11 in	⅜ in	⅛ in	No	Gedore	**53PH27**
120 mm to 130 mm	5⁄16 in	5⁄16 in	13 ¼ in	⅜ in	⅛ in	No	Gedore	**53PH30**
205 mm to 220 mm	25⁄64 in	5⁄16 in	18 ¼ in	½ in	⅛ in	No	Gedore	**53PH34**
Adjustable Face								
Alloy Steel, Black Oxide								
2 in	3⁄16 in	¼ in	6 ½ in	—	—	No	Proto	**1APC1**
3 in	¼ in	¼ in	8 ¼ in	—	—	No	Proto	**1APC2**
4 in	5⁄16 in	½ in	10 ½ in	—	—	No	Proto	**1APC3**
Alloy Steel, Manganese Phosphate								
330 mm	7⁄64 in	9⁄64 in	7 in	¼ in	⅛ in	No	Gedore	**53PH35**
Adjustable-Hook								
Alloy Steel, Satin								
20 mm to 100 mm	—	—	8 ½ in	5⁄16 in	3⁄16 in	No	Facom	**36T995**
30 mm to 200 mm	—	—	14 ½ in	13⁄32 in	9⁄32 in	No	Facom	**36T996**
Alloy Steel, Black Oxide								
¾ in to 2 in	—	—	6 ½ in	11⁄32 in	⅛ in	No	Proto	**1APC4**
1 ¼ in to 3 in	—	—	8 ¼ in	½ in	5⁄32 in	No	Proto	**1APC5**
2 in to 4 ¾ in	—	—	11 ½ in	15⁄32 in	3⁄16 in	No	Proto	**1APC6**
4 ½ in to 6 ¼ in	—	—	12 in	15⁄32 in	¼ in	No	Proto	**1APC7**
6 ⅛ in to 8 ¾ in	—	—	13 ¾ in	15⁄32 in	5⁄16 in	No	Proto	**1FJ45**
Aluminum, Bronze, Natural								
2 in to 4 ¾ in	—	—	11 in	11⁄32 in	⅛ in	Yes	Ampco	**4RPC1**
Fixed-Hook								
Aluminum, Bronze, Nickel, Natural								
1 ¾ in to 2 in	—	—	8 in	5⁄16 in	⅛ in	Yes	Ampco	**21XX09**
3 ¾ in to 4 in	—	—	11 ¼ in	5⁄16 in	3⁄16 in	Yes	Ampco	**21XX14**

Straight 4YR92

Swedish 60EG19

Pipe Wrench Sets

WESTWARD ROTHENBERGER

- Serrated jaw
- Turn threaded pipe and pipe fittings.

Jaw Cap.	Overall Length	Handle Type	Tether Style	Brand	Item No.
Straight					
Aluminum Handle Material					
1 ½ in, 2 in	10 in, 14 in	I-Beam	Tether Capable	Westward	**4YR92**
Cast Iron Handle Material					
2 in, 2 ½ in	12 in, 18 in	I-Beam	Tether Capable	Westward	**4PL94**
Swedish					
Steel Handle Material					
1 ½ in	6 in	Ergonomic	Not Tether Capable	Rothenberger	**60EG19**
2 in	5 51/100 in	Ergonomic	Not Tether Capable	Rothenberger	**60EG18**

GEDORE RIDGID WESTWARD PROTO ROTHENBERGER Milwaukee AMPCO REED IRWIN VISE-GRIP KNIPEX

Pipe Wrenches

- Serrated jaw texture except where noted

Adjustable jaws grip and turn threaded pipe and pipe fittings. **Ratcheting** wrenches allow one-handed operation without repositioning. Slim **Swedish** wrenches adjust jaw size via a nut. **Hex** wrenches grip hexagonal bolts and screws. **End** pipe wrenches fit against a wall or in tight spaces. The jaws of **offset** wrenches open perpendicular to the handle for use overhead or in tight spaces.

Straight 3MA10

Straight with Valve Wheel End 38HV32

Ratcheting 4JA77

Jaw Cap.	Overall Length	Handle Type	Brand	Item No.
Straight Pipe Wrenches				
Alloy Steel Handle Material				
2"	18 in	I-Beam	Gedore	**53DU59**
2½"	24 in	I-Beam	Gedore	**53DU60**
3½"	36 in	I-Beam	Gedore	**53DU61**
Aluminum Handle Material				
1½"	10 in	I-Beam	Ridgid	**6A650**
1½"	10 in	I-Beam	Westward	**3MA10**
1½"	10 in	I-Beam	Proto	**38WF23**
2"	12 in	I-Beam	Westward	**3MA11**
2"	12 in	I-Beam	Proto	**38WF24**
2"	12 in	I-Beam	Proto	**24AK37**
2"	14 in	I-Beam	Ridgid	**6A651**
2"	14 in	I-Beam	Westward	**3MA12**
2"	14 in	I-Beam	Proto	**38WF25**
2½"	18 in	I-Beam	Ridgid	**6A652**
2½"	18 in	I-Beam	Westward	**4YR90**
2½"	18 in	I-Beam	Rothenberger	**53RF19**
3"	24 in	I-Beam	Ridgid	**6A653**
3"	24 in	I-Beam	Westward	**4YR91**
3"	24 in	I-Beam	Rothenberger	**53RF20**
3½"	18 in	I-Beam	Proto	**38WF26**
4"	24 in	I-Beam	Proto	**38WF27**
5"	36 in	I-Beam	Ridgid	**6A654**
5"	36 in	I-Beam	Westward	**1XJZ2**
5"	36 in	I-Beam	Proto	**38WF28**
5"	36 in	I-Beam	Rothenberger	**53RF21**
6"	48 in	I-Beam	Ridgid	**4NV22**
6"	48 in	I-Beam	Westward	**6ATY3**
6"	48 in	I-Beam	Proto	**44ZJ68**
Cast Iron Handle Material				
¾"	6 in	I-Beam	Ridgid	**1XDY9**

Jaw Cap.	Overall Length	Handle Type	Brand	Item No.
¾"	6 in	I-Beam	Proto	**3R411**
¾"	6 in	I-Beam	Westward	**39CG46**
1"	8 in	I-Beam	Ridgid	**4A497**
1"	8 in	I-Beam	Westward	**3LY96**
1"	8 in	I-Beam	Proto	**3R412**
1½"	10 in	I-Beam	Ridgid	**4A498**
1½"	10 in	I-Beam	Westward	**3LY97**
1½"	10 in	I-Beam	Proto	**3R413**
1½"	10 in	I-Beam	Ridgid	**5FY90**
2"	12 in	I-Beam	Ridgid	**4CW42**
2"	12 in	I-Beam	Westward	**3LY98**
2"	12 in	I-Beam	Proto	**3R414**
2"	14 in	I-Beam	Ridgid	**4A499**
2"	14 in	I-Beam	Westward	**3LY99**
2"	14 in	I-Beam	Proto	**3R415**
2½"	18 in	I-Beam	Ridgid	**4A500**
2½"	18 in	I-Beam	Westward	**4YR93**
3"	24 in	I-Beam	Ridgid	**4A501**
3"	24 in	I-Beam	Westward	**4YR94**
3½"	18 in	I-Beam	Proto	**3R416**
4"	24 in	I-Beam	Proto	**3R417**
5"	36 in	I-Beam	Ridgid	**4A502**
5"	36 in	I-Beam	Westward	**1XJZ3**
5"	36 in	I-Beam	Proto	**3R418**
6"	48 in	I-Beam	Ridgid	**4NV21**
6"	48 in	I-Beam	Westward	**6ATY2**
6"	48 in	I-Beam	Proto	**3R419**
8"	60 in	I-Beam	Westward	**39CG51**
8"	60 in	I-Beam	Ridgid	**1XDY8**

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CONTINUED

Nonsparking Monkey
46C037

Swedish
38VG06

Hex
40GL48

End
60EG12

Offset
1EZ15

Pipe Wrenches

Jaw Cap.	Overall Length	Handle Type	Brand	Item No.
Straight Pipe Wrenches, Tether Ready				
Alloy Steel Handle Material				
1½"	10 in	Ergonomic	Milwaukee	**52XH81**
2"	12 in	Ergonomic	Milwaukee	**52XH82**
2"	14 in	Ergonomic	Milwaukee	**52XH83**
2½"	18 in	Ergonomic	Milwaukee	**52XH84**
2½"	24 in	Ergonomic	Milwaukee	**52XH90**
Aluminum Handle Material				
1½"	10 in	Ergonomic	Milwaukee	**52XH85**
1½"	18 in	Ergonomic	Milwaukee	**487R47**
2"	12 in	Ergonomic	Milwaukee	**52XH86**
2"	14 in	Ergonomic	Milwaukee	**52XH87**
2½"	18 in	Ergonomic	Milwaukee	**52XH88**
3"	24 in	Ergonomic	Milwaukee	**52XH89**
4"	24 in	I-Beam	Proto	**24AK39**
5"	36 in	Ergonomic	Milwaukee	**487R45**
6"	48 in	Ergonomic	Milwaukee	**487R46**
Cast Iron Handle Material				
¾"	6 in	Ergonomic	Milwaukee	**487R34**
1"	8 in	Ergonomic	Milwaukee	**487R35**
3"	24 in	Ergonomic	Milwaukee	**487R36**
5"	36 in	Ergonomic	Milwaukee	**487R42**
6"	48 in	Ergonomic	Milwaukee	**487R43**
8"	60 in	Ergonomic	Milwaukee	**487R44**
Nonsparking Straight Pipe Wrenches				
Aluminum Bronze Handle Material				
1 15/16"	8 in	I-Beam	Ampco	**8W815**
2½"	10 in	I-Beam	Ampco	**4RPC2**
2 13/16"	14 in	I-Beam	Ampco	**4DC07**
3 13/16"	18 in	I-Beam	Ampco	**4DC08**
4¼"	24 in	I-Beam	Ampco	**4DC10**
5 11/16"	36 in	I-Beam	Ampco	**4RPC5**
7 9/16"	48 in	I-Beam	Ampco	**8ADX7**
Aluminum Handle Material				
2½"	10 in	I-Beam	Ampco	**4RPC3**
2 13/16"	14 in	I-Beam	Ampco	**4RPC4**
3 3/16"	18 in	I-Beam	Ampco	**4DC09**
4¼"	24 in	I-Beam	Ampco	**4DC11**
5 11/16"	36 in	I-Beam	Ampco	**4RPC6**
7 9/16"	48 in	I-Beam	Ampco	**8RF38**
Beryllium Copper Alloy Handle Material				
3"	24 in	I-Beam	Westward	**23X843**
Straight Pipe Wrenches with Valve Wheel End				
Alloy Steel Handle Material				
1"	10 in	I-Beam	Reed	**38HV32**
Ratcheting Pipe Wrenches				
Alloy Steel Handle Material				
1"	11 in	I-Beam	Reed	**38HV23**
1½"	16 in	I-Beam	Reed	**38HV30**
2¼"	11 in	Ergonomic	Irwin Vise-Grip	**4JA77**
Aluminum Handle Material				
2"	14 in	I-Beam	Ridgid	**4MY87**
2½"	18 in	I-Beam	Ridgid	**4MY88**
Cast Iron Handle Material				
1½"	10 in	I-Beam	Ridgid	**1EZ12**
2"	14 in	I-Beam	Ridgid	**3AY50**
Monkey Wrenches				
Alloy Steel Handle Material				
2 1/3"	9 in	I-Beam	Westward	**39CG48** *
3"	11 in	I-Beam	Westward	**39CG45** *
3 1/10"	14 ¾ in	I-Beam	Westward	**39CG44** *
Cast Iron Handle Material				
2⅝"	12 in	I-Beam	Ridgid	**5FY89** *
2⅝"	12 in	I-Beam	Westward	**6ATY6** *
Monkey Wrenches, Tether Ready				
Cast Iron Handle Material				
2⅝"	12 in	Ergonomic	Milwaukee	**487R38** *
Nonsparking Monkey Wrenches				
Aluminum Bronze Handle Material				
2 13/16"	15 in	I-Beam	Ampco	**1TEB4**
4⅛"	21 in	I-Beam	Ampco	**1TEB5**
Nickel Aluminum Bronze Handle Material				
1½"	8 in	I-Beam	Ampco	**46C037**
1⅞"	10 in	I-Beam	Ampco	**46C101**
2¼"	12 in	I-Beam	Ampco	**46C059**
3"	18 in	I-Beam	Ampco	**46C107**
Swedish Pipe Wrenches				
Alloy Steel Handle Material				
1"	11 in	Plier-Type	Gedore	**53DU51**
1"	12 in	Plier-Type	Gedore	**53DU46**
1⅜"	10 in	Plier-Type	Gedore	**53DU45**
1½"	16 in	Plier-Type	Gedore	**53DU47**
1½"	17 in	Plier-Type	Gedore	**53DU52**
1⅝"	12 in	I-Beam	Knipex	**38VG07**
2"	22 in	Plier-Type	Gedore	**53DU48**
2"	23 in	Plier-Type	Gedore	**53DU53**
2⅜"	16 in	I-Beam	Knipex	**38VG03**
2⅜"	17 in	I-Beam	Knipex	**38VG08**
2⅜"	17 in	Plier-Type	Knipex	**38VG13**
2¾"	21 in	I-Beam	Knipex	**38VG11**
2¾"	22 in	I-Beam	Knipex	**38VG04**
3"	26 in	Plier-Type	Gedore	**53DU54**
4"	30 in	Plier-Type	Gedore	**53DU55**
4⅜"	25 in	I-Beam	Knipex	**38VG05**
4¾"	26 in	I-Beam	Knipex	**38VG12**
5⅛"	29 in	I-Beam	Knipex	**38VG06**
Steel Handle Material				
1½"	16 ½ in	Straight	Rothenberger	**60EG03**
2"	21 in	Straight	Rothenberger	**60EG02**
Swedish Pipe Wrenches, Tether Ready				
Alloy Steel Handle Material				
3"	25 in	Plier-Type	Gedore	**55KM09**
Hex Pipe Wrenches				
Cast Iron Handle Material				
2"	20 in	I-Beam	Ridgid	**40GL48** *
2⅝"	9 in	I-Beam	Ridgid	**4A504** *
2⅝"	9 ½ in	I-Beam	Westward	**6ATY4** *
Hex Pipe Wrenches, Tether Ready				
Cast Iron Handle Material				
2⅝"	10 in	Ergonomic	Milwaukee	**487R37** *
End Pipe Wrenches				
Aluminum Handle Material				
1½"	10 in	I-Beam	Ridgid	**6NTR1**
2"	14 in	I-Beam	Ridgid	**6YJ46** *
2½"	18 in	I-Beam	Ridgid	**6YJ47**
2½"	18 in	I-Beam	Westward	**39CG47**
60"	60 in	Straight	Rothenberger	**60EG12**
Cast Iron Handle Material				
2"	14 in	I-Beam	Ridgid	**4CW43**
2"	14 in	I-Beam	Westward	**6ATY5**
2½"	18 in	I-Beam	Ridgid	**4CW44**
2½"	18 in	I-Beam	Westward	**39CG50**
End Pipe Wrenches, Tether Ready				
Aluminum Handle Material				
1⅞"	25 cm	Straight	Rothenberger	**60EG10**
14"	35 cm	Straight	Rothenberger	**60EG11**
Offset Pipe Wrenches				
Aluminum Handle Material				
2"	14 in	I-Beam	Ridgid	**1EZ15**
2"	14 in	I-Beam	Westward	**1XJZ7**
2"	14 in	I-Beam	Rothenberger	**53RF23**
2½"	18 in	I-Beam	Ridgid	**4CW45**
2½"	18 in	I-Beam	Westward	**1XJZ8**
2½"	18 in	I-Beam	Rothenberger	**53RF24**
3"	24 in	I-Beam	Ridgid	**1EZ16**
3"	24 in	I-Beam	Westward	**1XJZ9**
Offset Pipe Wrenches, Tether Ready				
Aluminum Handle Material				
2"	14 in	Ergonomic	Milwaukee	**487R39**
2"	18 in	Ergonomic	Milwaukee	**487R40**
3"	24 in	Ergonomic	Milwaukee	**487R41**

**Smooth Jaw Texture*

Chain Wrenches, Chain Tongs & Strap Wrenches

Grip and turn odd-shaped and cylindrical items. **Chain wrenches** and **chain tongs** are adjustable chains that tighten around an object to grip it so the object can be turned. **Adjustable strap wrenches** have nonmarring strap material and won't damage highly polished surfaces.

For Outside Dia.	Chain Length	Handle Length	Jaw Material	Brand	Item No.
Double End Chain Wrenches					
Alloy Steel Handle Material					
5 in	18½"	14 in	Alloy Steel	Ridgid	**4CW47**
5 in	20¼"	18 in	Alloy Steel	Ridgid	**4CW48**
5 in	20¼"	24 in	Alloy Steel	Ridgid	**1EZ14**
5 in	20¼"	24 in	Alloy Steel	Westward	**1XJZ4**
7 ½ in	29"	36 in	Alloy Steel	Ridgid	**1XDY7**
Cast Iron Handle Material					
7 ½ in	29½"	36 in	Alloy Steel	Westward	**39CG53**
Double End Nonsparking Chain Wrenches					
Nickel, Aluminum, Bronze Handle Material					
1 ½ in	20"	20 in	Aluminum Bronze	Ampco	**1TEB7**
4 in	25¾"	36 in	Aluminum Bronze	Ampco	**21XW05**
12 in	54¾"	72 in	Aluminum Bronze	Ampco	**21XW03**
Single End Chain Wrenches					
Alloy Steel Handle Material					
4 in	15¾"	12 in	Alloy Steel	Ridgid	**3KHC2**
4 in	16"	12 in	Alloy Steel	Westward	**39CG43**
4 in	16½"	16 ½ in	Alloy Steel	Proto	**3R410**
12 in	36"	64 in	Alloy Steel	Rothenberger	**53RF11**
Double End Chain Tongs					
Iron Handle Material					
8 in	40½"	50 in	Alloy Steel	Ridgid	**4CPE5**
12 in	55½"	64 in	Alloy Steel	Ridgid	**4CPE6**
Single End Chain Tongs					
Alloy Steel Handle Material					
4 in	12"	12 in	Alloy Steel	Rothenberger	**53RF08**
6 3/5 in	6"	45 ¼ in	Alloy Steel	Rothenberger	**53RF09**
8 3/5 in	50"	50 in	Alloy Steel	Rothenberger	**53RF10**
Iron Handle Material					
18 in	74½"	87 in	Alloy Steel	Ridgid	**4CPE4**

For Outside Dia.	Handle Length	Strap Width	Strap Length	Strap Material	Brand	Item No.
Strap Wrenches						
Alloy Steel Handle Material						
5"	12"	1"	23"	Alloy Steel	Klein Tools	**2DHC5**
6 3/10"	9"	¾"	22½"	Rubber	Westward	**23M601**
8"	18"	1¾"	34"	Alloy Steel	Klein Tools	**2DFD5**
9½"	11"	1"	34¾"	Rubber	Westward	**23M602**
Aluminum Handle Material						
3½"	11¾"	1 1/16"	17"	Aluminum	Ridgid	**38HY48**
3½"	11¾"	1⅛"	17"	Aluminum	Ridgid	**4A505**
3½"	13"	1¼"	16"	Aluminum	Rothenberger	**53RF26**
5½"	18"	1¾"	29¼"	Woven Nylon	Ridgid	**4CPE2**
8"	12"	1"	8"	Aluminum	Gedore	**425R41**
8½"	13"	1"	36"	Aluminum	Rothenberger	**53RF27**
Plastic Handle Material						
8"	5"	1¾"	31"	Plastic	Ridgid	**52VN71**
Polypropylene Handle Material						
4"	3¼"	13/16"	21"	Rubber	Westward	**5PV87**
12"	4½"	¾"	38"	Rubber	Westward	**5PV88**
Strap Wrench Sets						
Polypropylene Handle Material						
4",-12"	3¼",-4-1/2"	¾",-13/16"	21",-37-13/16"	Reinforced Neoprene Rubber	Westward	**5PV89**

Double End Chain
4CW47

Single End Chain Tong
53RF08

Strap
2DFD5

Claw
21XX16

Double End
5PWE5

F-Shaped
5PWF3

Single End
38L080

Valve Wheel Wrenches

Long-handled wrenches add leverage for opening and closing valves that have a handwheel. Slip resistant design for secure grip.

Head Size	Overall Length	Nonsparking	Material	Finish	Brand	Item No.
Claw						
1⅜",-2-3/8"	14½"	Yes	Aluminum Bronze	Natural	Ampco	**21XX16**
1⅜",-1-1/2"	21¼"	No	Alloy Steel	Black Oxide	Westward	**5PWF2**
1⅞",-3-1/8"	17"	Yes	Aluminum Bronze	Natural	Ampco	**21XX17**
2 7/16",-4"	21½"	Yes	Aluminum Bronze	Natural	Ampco	**21XX18**
Double End						
½",-21/32"	8"	No	Alloy Steel	Black Oxide	Westward	**5PWE5**
11/16",-1"	10"	No	Alloy Steel	Black Oxide	Westward	**5PWE6**
1",-1-5/16"	17½"	No	Alloy Steel	Black Oxide	Westward	**5PWE7**
Double F-Shaped						
1 3/16",-1-9/16"	19¾"	Yes	Aluminum Bronze	Natural	Ampco	**21XV98**
1⅜"	13¾"	Yes	Aluminum Bronze	Natural	Ampco	**46C053**
1⅝"	15¾"	Yes	Aluminum Bronze	Natural	Ampco	**46C067**
F-Shaped						
1⅜"	12"	No	Alloy Steel	Powder-Coated	Westward	**5PWF3**
1⅜"	17½"	No	Alloy Steel	Powder-Coated	Westward	**5PWF4**
1½"	26½"	No	Alloy Steel	Powder-Coated	Westward	**5PWF5**
1¾"	17¾"	Yes	Aluminum Bronze	Natural	Ampco	**21XV96**
Single End						
¾"	8"	Yes	Aluminum	Painted	Wheeler-Rex	**38L080**
1"	14"	Yes	Aluminum	Painted	Wheeler-Rex	**38L081**
1"	15"	No	Alloy Steel	Black Oxide	Westward	**5PWE8**
1⅜"	15½"	No	Alloy Steel	Black Oxide	Westward	**5PWF1**
1⅜"	18"	Yes	Aluminum	Painted	Wheeler-Rex	**38L082**
2"	27"	No	Alloy Steel	Powder-Coated	Westward	**5PWE9**
2¼"	48"	No	Alloy Steel	Black Oxide	Westward	**5PWF0**

Insulated
60TA34

Ratcheting
53CA71

Tether-Ready Ratcheting
24AJ65

Adjustable Micrometer Torque Wrenches

- Rotate clockwise and counterclockwise, except where noted

Apply a specific torque to fasteners. Handle twists to set torque value. As the wrench rotates, an audible click indicates that the desired torque has been reached. Ratcheting micrometer torque wrenches don't need to be repositioned during rotation.

Drive Size	Torque Range	Torque Increments	Calibration Certificate Included	Overall Length	Brand	Item No.
Insulated Micrometer Torque Wrenches						
Foot-Pound, Newton-Meter						
¼"	1 to 9 ft-lb, 2 to 12 N-m	0.1 N-m	Yes	11 27/64 in	Jameson/Itl	**60TA34**
⅜"	4 to 20 ft-lb, 5 to 25 N-m	0.2 N-m	Yes	11 7/32 in	Jameson/Itl	**60TA33**
Non-Insulated Micrometer Torque Wrenches						
Foot-Pound						
⅜"	16 ft-lb to 80 ft-lb	0.5 ft-lb	No	14 ¾ in	Proto	**426F01**
½"	30 ft-lb to 150 ft-lb	1 ft-lb	No	20 ¼ in	Proto	**426F11**
½"	50 ft-lb to 250 ft-lb	1 ft-lb	No	25 ¾ in	Proto	**426F07**
¾"	120 ft-lb to 600 ft-lb	2 ft-lb	No	41 ¼ in	Proto	**426F15**
1"	200 ft-lb to 1000 ft-lb	5 ft-lb	No	69 in	Proto	**1Q877**
1"	400 ft-lb to 2000 ft-lb	10 ft-lb	No	107 ½ in	Proto	**1ARN7**
Foot-Pound, Newton-Meter						
¼"	5 N-m to 25 N-m	0.5 N-m, 1 ft-lb	Yes	8 ¼ in	Wiha Tools	**53KF28** *
⅜"	10 ft-lb to 100 ft-lb	1 ft-lb, 1.4 N-m	Yes	18 in	Gearwrench	**41XR30** *
½"	20 ft-lb to 150 ft-lb	1 ft-lb, 1.4 N-m	Yes	22 in	Gearwrench	**41YA59** *
½"	30 ft-lb to 250 ft-lb	2 ft-lb, 2.7 N-m	Yes	24 ¼ in	Gearwrench	**41XE17** *
½"	40 N-m to 220 N-m	0.5 N-m, 1 ft-lb	Yes	21 in	Wiha Tools	**53KF30** *
¾"	100 ft-lb to 600 ft-lb	2.5 ft-lb, 3.4 N-m	Yes	42 ½ in	Gearwrench	**41YA61** *
Inch-Pound						
¼"	40 in-lb to 200 in-lb	1 ft-lb	No	11 ¼ in	Proto	**426F20**
⅜"	40 in-lb to 200 in-lb	1 in-lb	No	11 ¼ in	Proto	**426F22**
⅜"	40 in-lb to 200 in-lb	1 in-lb	Yes	11 ¼ in	Proto	**4YA74**
⅜"	200 in-lb to 1000 in-lb	5 in-lb	No	14 ¾ in	Proto	**426F24**
⅜"	200 in-lb to 1000 in-lb	5 in-lb	Yes	15 ¼ in	Proto	**4YA75**
Inch-Pound, Newton-Meter						
⅜"	30 in-lb to 250 in-lb	0.23 N-m, 1 in-lb	Yes	14 in	Gearwrench	**41YA62** *
Flex-Head Ratcheting Micrometer Torque Wrenches						
Foot-Pound						
⅜"	10 ft-lb to 100 ft-lb	10 ft-lb	No	16 ½ in	Proto	**53GL75**
½"	30 ft-lb to 250 ft-lb	1 ft-lb	No	25 ½ in	Proto	**53GL74**
Insulated Ratcheting Micrometer Torque Wrenches						
Foot-Pound, Newton-Meter						
⅜"	9 ft-lb to 44 ft-lb	4 N-m, 5 ft-lb	Yes	14 in	Jameson/Itl	**31CE79**
Inch-Pound, Newton-Meter						
½"	9 ft-lb to 44 ft-lb	4 N-m, 5 ft-lb	Yes	14 in	Jameson/Itl	**31CE80**
Ratcheting Micrometer Torque Wrenches						
Foot-Pound						
⅜"	15 ft-lb to 75 ft-lb	0.5 ft-lb	Yes	15 ¼ in	Sturtevant Richmont	**53CA71** *
⅜"	16 ft-lb to 80 ft-lb	0.5 ft-lb	No	15 in	Proto	**426F02**
⅜"	16 ft-lb to 80 ft-lb	0.5 ft-lb	Yes	15 in	Proto	**4YA67**
⅜"	20 ft-lb to 100 ft-lb	1 ft-lb	No	16 ½ in	Proto	**426F06**
½"	16 ft-lb to 80 ft-lb	0.5 ft-lb	Yes	15 in	Proto	**4YA68**
½"	16 ft-lb to 80 ft-lb	0.5 ft-lb	No	15 in	Proto	**426F05**
½"	30 ft-lb to 150 ft-lb	1 ft-lb	Yes	19 ½ in	Sturtevant Richmont	**53CA72** *
½"	30 ft-lb to 150 ft-lb	1 ft-lb	No	20 ¼ in	Proto	**426F12**
½"	30 ft-lb to 150 ft-lb	1 ft-lb	Yes	20 ¼ in	Proto	**4YA69**
½"	33.2 ft-lb to 151.2 ft-lb	1 ft-lb, 1 N-m	No	20 ¼ in	Proto	**426F14**
½"	50 ft-lb to 250 ft-lb	1 ft-lb	No	26 ¼ in	Proto	**426F08**
½"	50 ft-lb to 250 ft-lb	1 ft-lb	Yes	26 ¼ in	Proto	**4YA70**
½"	50 ft-lb to 250 ft-lb	2 ft-lb	Yes	25 ½ in	Sturtevant Richmont	**53CA73** *
¾"	60 ft-lb to 300 ft-lb	2 ft-lb	Yes	32 ¾ in	Proto	**4YA71**
¾"	120 ft-lb to 600 ft-lb	2 ft-lb	No	41 ½ in	Proto	**426F17**
¾"	120 ft-lb to 600 ft-lb	2 ft-lb	Yes	41 ½ in	Proto	**4YA72**
¾"	120 ft-lb to 600 ft-lb	2 ft-lb	Yes	48 ½ in	Westward	**55JC01**
1"	140 ft-lb to 700 ft-lb	2 ft-lb	No	46 ¾ in	Proto	**426F19**
Foot-Pound, Newton-Meter						
⅜"	10 ft-lb to 80 ft-lb	0.5 ft-lb, 0.7 N-m	Yes	17 1/16 in	Westward	**55JA97**
⅜"	10 ft-lb to 100 ft-lb	0.7 N-m, 1 ft-lb	Yes	16 in	Cdi	**4YVX1**
⅜"	10 ft-lb to 100 ft-lb	1 ft-lb, 1.4 N-m	Yes	18 ¼ in	Gearwrench	**644D43** *
⅜"	20 ft-lb to 100 ft-lb	0.5 ft-lb, 0.7 N-m	Yes	17 1/16 in	Westward	**55JA95**
½"	10 ft-lb to 150 ft-lb	1 ft-lb, 1.35 N-m	No	18 in	Westward	**4DA96** *
½"	20 ft-lb to 150 ft-lb	1 ft-lb, 1.4 N-m	Yes	19 in	Cdi	**4YVX8**
½"	20 ft-lb to 150 ft-lb	1 ft-lb, 1.4 N-m	Yes	20 in	Westward	**55JA98**
½"	30 ft-lb to 250 ft-lb	1 in-lb, 1.4 N-m	Yes	24 ½ in	Cdi	**4YVY1**
½"	30 ft-lb to 250 ft-lb	2 ft-lb, 2.7 N-m	Yes	25 in	Gearwrench	**644D41** *
½"	50 ft-lb to 250 ft-lb	1 ft-lb, 1.4 N-m	Yes	24 ½ in	Westward	**55JA99**
¾"	60 ft-lb to 300 ft-lb	2 ft-lb, 2.7 N-m	Yes	35 11/16 in	Westward	**55JA93**
¾"	100 ft-lb to 500 ft-lb	5 ft-lb, 6.8 N-m	Yes	42 in	Cdi	**4YVY3**
¾"	100 ft-lb to 600 ft-lb	5 in-lb, 6.8 N-m	Yes	42 in	Cdi	**4YVY4**
1"	140 ft-lb to 700 ft-lb	2 ft-lb, 2.7 N-m	Yes	48 ⅝ in	Westward	**55JA96**
1"	200 ft-lb to 1000 ft-lb	5 ft-lb, 6.8 N-m	Yes	70 in	Cdi	**4YVY5**
Inch-Pound						
¼"	10 in-lb to 50 in-lb	1 in-lb	Yes	11 ¼ in	Sturtevant Richmont	**53CA69** *
¼"	40 in-lb to 200 in-lb	1 in-lb	No	11 ¼ in	Proto	**426F21**
¼"	40 in-lb to 200 in-lb	1 in-lb	Yes	11 ¼ in	Proto	**4YA63**
⅜"	40 in-lb to 200 in-lb	1 in-lb	No	11 ¼ in	Proto	**426F23**
⅜"	40 in-lb to 200 in-lb	1 in-lb	Yes	11 ¼ in	Proto	**4YA64**
⅜"	40 in-lb to 200 in-lb	2 in-lb	Yes	10 ¾ in	Sturtevant Richmont	**53CA74** *
⅜"	150 in-lb to 750 in-lb	5 in-lb	Yes	15 ¼ in	Sturtevant Richmont	**53CA70** *
⅜"	200 in-lb to 1000 in-lb	5 in-lb	No	15 in	Proto	**426F25**
Inch-Pound, Newton-Meter						
¼"	10 in-lb to 60 in-lb	0.06 N-m, 0.5 in-lb	Yes	9 ⅝ in	Westward	**55JA94**
¼"	40 in-lb to 200 in-lb	0.11 N-m, 1 in-lb	Yes	11 ½ in	Westward	**55JA91**
⅜"	20 in-lb to 150 in-lb	0.12 N-m, 1 in-lb	Yes	10 ¼ in	Cdi	**4YVX4**
⅜"	30 in-lb to 250 in-lb	0.12 N-m, 1 in-lb	Yes	11 ¼ in	Cdi	**4YVX6**
⅜"	40 in-lb to 200 in-lb	0.11 N-m, 1 in-lb	Yes	11 ½ in	Westward	**55JA92**
Newton-Meter						
¼"	2 N-m to 10 N-m	0.1 N-m	Yes	7 ¼ in	Gedore	**49AD70** *
⅜"	4 N-m to 20 N-m	0.2 N-m	Yes	11 ¾ in	Sturtevant Richmont	**53CA75** *
½"	40 N-m to 200 N-m	1 N-m	Yes	19 ¼ in	Sturtevant Richmont	**53CA76** *
½"	60 N-m to 300 N-m	2 N-m	Yes	24 ¼ in	Sturtevant Richmont	**53CA77** *
¾"	160 N-m to 800 N-m	2 ft-lb	No	41 ½ in	Proto	**426F18**
Tether-Ready Ratcheting Micrometer Torque Wrenches						
Foot-Pound						
½"	50 ft-lb to 250 ft-lb	1 ft-lb	No	27 ¼ in	Proto	**24AJ65**
Foot-Pound, Newton-Meter						
½"	30 ft-lb to 250 ft-lb	1 ft-lb, 1.4 N-m	Yes	24 ½ in	Cdi	**30HM05**
Newton-Meter						
⅜"	16 N-m to 80 N-m	0.5 N-m	No	15 in	Proto	**24AJ63**

**Clockwise*

PROTO® WESTWARD BLACK MAX Sturtevant Richmont INSIZE YELLOW JACKET

Electronic Torque Wrenches

Feature a digital display for precise torque readings and electronic torque measurement for high accuracy. **Flex-head** works at an angle to reach fasteners in tight spaces. Avoid overtightening or undertightening fasteners and apply consistent torque.

Interchangeable Head 4NAN9

Flex-Head 39WE18

Standard-Head, High Accuracy 4XRJ2

Torque Range	Ratcheting	Overall Length	Torque Measurement Type	Calibration Certificate Included	Visual/Audible Indicators	Brand	Item No.
Electronic Interchangeable Head Torque Wrenches							
¼ in Drive Size							
25 ft-lb to 250 ft-lb, 3 N-m to 28 N-m	No	17¼"	Inch-Pound, Newton Meter	No	LED Lights	Proto	**4NAN9**
Flex-Head, Electronic Torque & Angle Wrenches							
⅜ in Drive Size							
5 ft-lb to 99.5 ft-lb, 6.8 N-m to 135 N-m	Yes	16¾"	Inch-Pound, Centimeter-Kilogram	Yes	Audible and Visual	Westward	**6PAG1**
½ in Drive Size							
12.5 ft-lb to 250.7 ft-lb, 17 N-m to 340 N-m	Yes	26"	Inch-Pound, Centimeter-Kilogram	Yes	Audible and Visual	Westward	**6PAG2**
Flex-Head, Electronic Torque Wrenches							
¼ in Drive Size							
1.11 to 22.12 ft-lb	Yes	15½"	Foot-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**39WE18**
1 7/16 in Drive Size							
8 to 85 N-m	No	15¼"	Newton-Meter	Yes, NIST	Audible Tone, LED Light Bar	Blackmax	**60WA11**
Standard-Head, Electronic Torque & Angle Wrenches							
⅜ in Drive Size							
180 to 900 in. lbs.	Yes	16½"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Sturtevant Richmont	**54ZX89**
Standard-Head, Electronic Torque Wrenches							
¼ in Drive Size							
0.44 to 8.85 ft-lb	Yes	8½"	Centimeter-Kilogram, Inch-Pound	Yes, NIST, TAF	Audible and Visual	Westward	**6PAE8**
1.11 to 22.12 ft-lb	Yes	15⅜"	Inch-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**4RYL2**
2.1 to 20.8 ft-lb	Yes	20½"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**36WX46**
4.42 to 22.12 ft-lb	Yes	15⅜"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Insize	**55VP37**
12 to 264 in-lb	Yes	17⅛"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**56JR86**
⅜ in Drive Size							
3.1 to 62.7 ft-lb	No	10½"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	No	Audible and Visual	Yellow Jacket	**423N89**
5 to 99 ft-lb	Yes	16¾"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**53JT46**
5 to 99.5 ft-lb	Yes	16⅜"	Inch-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**4RYL3**
5 to 100 ft-lb	Yes	17¼"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Visual	Proto	**56JR87**
½ in Drive Size							
12.5 to 250 ft-lb	Yes	25¾"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**53JT52**
12.5 to 250.7 ft-lb	Yes	25⅝"	Inch-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**4RYL8**
29.5 to 147.5 ft-lb	Yes	20⅞"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Insize	**55VP36**
300 to 3,000 in-lb	Yes	32 5/16"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Visual	Proto	**56JR88**
¾ in Drive Size							
0 to 18 N-m	Yes	48"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**53JT55**
31 to 626.8 ft-lb	Yes	48"	Inch-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**39WE12**
100 to 500 N-m	Yes	37 7/16"	Centimeter-Kilogram, Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Insize	**55VP39**
1 in Drive Size							
55 to 1,106 ft-lb	Yes	70⅞"	Foot-Pound, Newton-Meter	Yes, NIST, TAF	Audible and Visual	Westward	**39WE11**
Standard-Head, High Accuracy Electronic Torque Wrenches							
¼ in Drive Size							
0.63 to 6.25 ft-lb	No	11"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAH6**
0.83 to 8.33 ft-lb	No	11"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAH7**
⅜ in Drive Size							
2.1 to 21 ft-lb	No	11"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAH8**
5 to 50 ft-lb	No	11"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAH9**
½ in Drive Size							
10 to 100 ft-lb	No	22"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAJ1**
25 to 250 ft-lb	No	22"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAJ2**
¾ in Drive Size							
0 to 350 ft-lb	Yes	27⅞"	Foot-Pound	Yes	Visual, Audible	Proto	**4XRJ2**
60 to 600 ft-lb	No	22"	Foot-Pound, Inch-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAJ3**
1 in Drive Size							
100 to 1,000 ft-lb	No	77"	Foot-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4XRJ3**
200 to 2,000 ft-lb	No	125"	Foot-Pound, Newton-Meter	Yes	Audible and Visual	Proto	**4NAJ4**

PROTO® INSIZE

Dial Torque Wrenches

Dial indicates torque applied as wrench rotates. A memory pointer displays the maximum torque applied to the fastener.

Drive Size	Torque Range	Torque Increments	Overall Length	Calibration Certificate Included	Brand	Item No.
Foot-Pound, Meter-Kilogram						
½ in	35 to 175 ft-lb, 5 to 24 m-kg	0.5 m-kg, 5 ft-lb	21 ½ in	Yes	Proto	**1ARR1**
¾ in	120 to 600 ft-lb, 16 to 80 m-kg	2 m-kg, 10 ft-lb	46 ½ in	Yes	Proto	**1ARR5**
⅜ in	1 to 7 m-kg, 10 to 50 ft-lb	0.2 m-kg, 1 ft-lb	10 ¼ in	Yes	Proto	**1ARR0**
1 in	0 to 2000 ft-lb, 56 to 280 m-kg	5 m-kg, 40 ft-lb	110 ¾ in	Yes	Proto	**1ARR7**
Foot-Pound, Newton-Meter						
½ in	35 to 175 ft-lb, 50 to 250 N-m	5 N-m, 5 ft-lb	21 ½ in	Yes	Proto	**1ART1**
⅜ in	10 to 50 ft-lb, 14 to 70 N-m	1 ft-lb, 2 N-m	14 ⅞ in	Yes	Proto	**1ART0**
Inch-Pound, Centimeter-Kilogram						
¼ in	0 cm-kg to 35 cm-kg, 15 to 75 in-lb	0.5 in-lb, 1 cm-kg	10 in	Yes	Proto	**4NAH5**
¼ in	15 to 75 in-lb, 18 to 90 cm-kg	1 in-lb, 2 cm-kg	10 in	Yes	Proto	**4JW71**
⅜ in	50 to 250 in-lb, 56 to 280 cm-kg	5 cm-kg, 5 in-lb	10 in	Yes	Proto	**1ARP8**
Inch-Pound, Newton-Meter						
¼ in	1 to 4 N-m, 6 to 30 in-lb	0.05 N-m, 0.5 in-lb	10 in	No	Insize	**55VP51**
⅜ in	0 to 30 N-m, 20 to 250 in-lb	0.5 N-m, 5 in-lb	10 in	Yes	Proto	**4JW74**
⅜ in	50 to 250 in-lb, 6 to 30 N-m	0.5 N-m	10 in	Yes	Proto	**1ARR9**

Inch-Pound, Newton-Meter 4JW74

Flat Beam Torque Wrenches

- Includes calibration certificate

Measures torque from a pivot point at the fastener to ensure proper fastener tension. As beam rotates, a pointer indicates torque. For use in fastener testing and assembly compliance testing for products with rotating components. Maintain calibration longer than other types of wrenches.

Sturtevant Richmont

Drive Size	Torque Range	Torque Increments	Overall Length	Item No.
Inch-Pound				
½ in	0 in-lb to 600 in-lb	25 in-lb	13 ½ in	**36WD40**
Newton-Meter				
½ in	0 N-m to 210 N-m	10 N-m	18 in	**36WD42**
⅜ in	0 N-m to 12 N-m	0.5 N-m	6 ½ in	**36WD41**

Inch-Pound 36WD40

Scan. Order. Done.
Details on page A1.

Preset
38A305

Electronic
4NAP3

Kit
33NT63

Interchangeable Head Torque Wrenches

Attach to multiple torque wrench heads. **Preset** torque wrenches are set with a range of torque values that can be changed with a separate tool. **Electronic** torque wrenches can be programmed and have audible and visual cues to indicate when the desired torque setting is near.

Drive Size	Torque Range	Overall Length	Calibration Certificate Included	Brand	Item No.
Interchangeable Head Torque Wrenches					
Foot-Pound					
⅜ in	20 ft-lb to 100 ft-lb	16 ¾ in	No	Insize	**55VP40**
½ in	50 ft-lb to 250 ft-lb	20 11/16 in	No	Insize	**55VP44**
¾ in	100 ft-lb to 600 ft-lb	41 9/16 in	No	Insize	**55VP45**
H5	16 ft-lb to 80 in-lb	15 in	No	Proto	**4NAW4**
H7	50 ft-lb to 250 in-lb	25 ¼ in	No	Proto	**4NAW5**
½ in	30 ft-lb to 150 ft-lb	19 ⅞ in	No	Insize	**55VP41**
Preset Interchangeable Head Torque Wrenches					
Foot-Pound, Newton Meter					
27/64 in	15 ft-lb to 75 ft-lb, 20 N-m to 102 N-m	11 in	Yes	Cdi	**38A305**
Inch-Pound, Newton Meter					
27/64 in	250 in-lb to 50 in-lb, 6 N-m to 28 N-m	10 in	Yes	Cdi	**38A303**
½ in x ¾ in	60 in-lb to 300 in-lb, 7 N-m to 34 N-m	8 ¾ in	Yes	Sturtevant Richmond	**36WD74**
9mm x 12mm	0.4 N-m to 2 N-m, 2 in-lb to 18 in-lb	4 in	Yes	Gedore	**49AD75**
Electronic Interchangeable Head Torque Wrenches					
Inch-Pound, Centimeter-Kilogram					
⅜ in	5 ft-lb to 99.5 ft-lb	16 5/16 in	Yes, NIST, TAF	Westward	**6PAF7**
½ in	12.5 ft-lb to 250.7 ft-lb, 250.7 ft-lb to 12.5 ft-lb	25 ⅝ in	Yes, NIST, TAF	Westward	**6PAG0**
Inch-Pound, Newton Meter					
H5	10 ft-lb to 100 ft-lb, 120 in-lb to 1,200 in-lb	17 ¼ in	No	Proto	**4NAP3**
Interchangeable Head Torque Wrench Kits					
Foot-Pound, Newton-Meter					
16 mm, 17 mm, 21 mm, 22 mm, 24 mm, 26 mm, 27 mm, 29 mm	10 N-m to 80 N-m, 7 ft-lb to 59 ft-lb	16 in	Yes	Yellow Jacket	**33NT63**
17 mm, 22 mm, 24 mm, 26 mm, 27 mm, 29 mm	10 N-m to 80 N-m, 7 ft-lb to 59 ft-lb	16 in	Yes	Yellow Jacket	**33NT62**

12-Point
53KJ04

Adjustable
423N90

Hex Drive
60GV75

Open End
53KH76

Square Ratcheting
19ZC58

Interchangeable Torque Wrench Heads

Multiple heads attach to a compatible torque wrench.

Size	Overall Length	Maximum Torque	Head Offset Angle	Brand	Item No.
12-Point Box End Torque Wrench Heads					
13/16 in Drive Size					
5/16 in	1 ¾ in	350 in-lb	0 °	Sturtevant Richmont	**53KJ04**
⅜ in	1 13/16 in	450 in-lb	0 °	Sturtevant Richmont	**53KJ05**
½ in	1 13/16 in	850 in-lb	0 °	Sturtevant Richmont	**53KJ07**
9/16 in	1 15/16 in	1,050 in-lb	0 °	Sturtevant Richmont	**53KJ08**
1 in Drive Size					
5/16 in	1 ¾ in	2,097 in-lb	0 °	Sturtevant Richmont	**53KJ27**
¾ in	2 ⅛ in	1,800 in-lb	0 °	Sturtevant Richmont	**53KJ11**
1 5/16 in Drive Size					
15/16 in	2 ¼ in	2,700 in-lb	0 °	Sturtevant Richmont	**53KJ13**
1 in	2 ¼ in	3,000 in-lb	0 °	Sturtevant Richmont	**53KJ14**
1 1/16 in	2 ¼ in	3,150 in-lb	0 °	Sturtevant Richmont	**53KJ15**
1 ⅛ in	2 ¼ in	3,300 in-lb	0 °	Sturtevant Richmont	**53KJ16**
H4 Drive Size					
9/16 in	3 3/16 in	900 in-lb	7.5 °	Proto	**4NAN8**
H5 Drive Size					
9/16 in	3 13/16 in	1,340 in-lb	7.5 °	Proto	**4NAT7**
⅝ in	3 ⅞ in	2,050 in-lb	7.5 °	Proto	**4NAU4**
¾ in	3 15/16 in	2,400 in-lb	7.5 °	Proto	**4NAV7**
⅞ in	4 in	2,400 in-lb	7.5 °	Proto	**4NAW2**
14 mm	3 13/16 in	1,340 in-lb	7.5 °	Proto	**4NAR5**
H7 Drive Size					
9/16 in	5 ⅜ in	1,340 in-lb	7.5 °	Proto	**4NAX5**
⅝ in	5 7/16 in	2,050 in-lb	7.5 °	Proto	**4NAY3**
¾ in	5 ½ in	2,630 in-lb	7.5 °	Proto	**4NAZ6**
⅞ in	5 9/16 in	3,600 in-lb	7.5 °	Proto	**4RUD5**
15/16 in	5 ⅝ in	3,600 in-lb	7.5 °	Proto	**4RUE2**
1 ¼ in	5 ⅞ in	3,600 in-lb	7.5 °	Proto	**4RUG4**
1 ⅛ in	5 ¾ in	3,600 in-lb	7.5 °	Proto	**4RUF9**
1 1/16 in	5 ¾ in	3,600 in-lb	7.5 °	Proto	**4RUF5**
1 3/16 in	5 13/16 in	3,600 in-lb	7.5 °	Proto	**4RUG2**
1 in	5 11/16 in	3,600 in-lb	7.5 °	Proto	**4RUE8**
15 mm	5 ⅜ in	1,770 in-lb	7.5 °	Proto	**4NAW8**
24 mm	5 ⅝ in	3,600 in-lb	7.5 °	Proto	**4NAZ8**
30 mm	5 13/16 in	3,600 in-lb	7.5 °	Proto	**4RUE4**

Size	Overall Length	Maximum Torque	Head Offset Angle	Brand	Item No.
Adjustable Torque Wrench Heads					
⅜ in Drive Size					
⅜ in	6 ½ in	752 in-lb	0 °	Yellow Jacket	**423N90**
9mm x 12mm Drive Size					
1 3/16 in	4 in	147 ft-lb	0 °	Westward	**19ZC61**
14mm x 18mm Drive Size					
1 ½ in	5 ⅛ in	147 ft-lb	0 °	Westward	**19ZC62**
Hex Drive Torque Wrench Heads					
Dovetail Drive Size					
3/32 in	1 ¾ in	30 in-lb	15 °	Sturtevant Richmont	**60GV74**
5/32 in	1 ¾ in	135 in-lb	15 °	Sturtevant Richmont	**60GV75**
3/16 in	1 ¾ in	235 in-lb	15 °	Sturtevant Richmont	**60GV76**
5/16 in	1 13/16 in	850 in-lb	15 °	Sturtevant Richmont	**60GV78**
Open End Torque Wrench Heads					
13/16 in Drive Size					
9/16 in	1 15/16 in	400 in-lb	15 °	Sturtevant Richmont	**53KH74**
29/32 in Drive Size					
11/16 in	1 15/16 in	800 in-lb	15 °	Sturtevant Richmont	**53KH76**
1 5/16 in Drive Size					
1 in	2 ¼ in	2,000 in-lb	15 °	Sturtevant Richmont	**53KH81**
1 ⅛ in	2 5/16 in	2,500 in-lb	15 °	Sturtevant Richmont	**53KH83**
9mm x 12mm Drive Size					
7 mm	1 ½ in	22 ft-lb	0 °	Westward	**19ZC63**
H5 Drive Size					
9/16 in	3 13/16 in	695 in-lb	15 °	Proto	**4NAT6**
⅝ in	3 ⅞ in	835 in-lb	15 °	Proto	**4NAU3**
11/16 in	3 ⅞ in	1,185 in-lb	15 °	Proto	**4NAU9**
¾ in	3 15/16 in	1,500 in-lb	15 °	Proto	**4NAV6**
⅞ in	4 in	2,310 in-lb	15 °	Proto	**4NAW1**
17 mm	3 ⅞ in	1,235 in-lb	15 °	Proto	**4NAT4**
22 mm	4 in	2,400 in-lb	15 °	Proto	**4NAV2**
H7 Drive Size					
⅞ in	5 9/16 in	2,470 in-lb	15 °	Proto	**4RUD4**
15/16 in	5 ⅝ in	2,970 in-lb	15 °	Proto	**4RUE1**
1 in	5 11/16 in	3,575 in-lb	15 °	Proto	**4RUE7**
1 ¼ in	5 ⅞ in	3,600 in-lb	15 °	Proto	**4RUG3**
1 1/16 in	5 ¾ in	3,600 in-lb	15 °	Proto	**4RUF4**
1 ⅛ in	5 13/16 in	3,600 in-lb	15 °	Proto	**4RUF8**
1 ⅜ in	5 15/16 in	3,600 in-lb	15 °	Proto	**4RUG7**
1 3/16 in	5 ⅞ in	3,600 in-lb	15 °	Proto	**4RUG1**
Square Ratcheting Torque Wrench Heads					
¼ in Drive Size					
¼ in	2 ⅜ in	250 in-lb	0 °	Sturtevant Richmont	**36WD52**
⅜ in Drive Size					
⅜ in	2 9/16 in	1,250 in-lb	0 °	Sturtevant Richmont	**36WD53**
½ in Drive Size					
½ in	2 ⅞ in	2,500 in-lb	0 °	Sturtevant Richmont	**36WD54**
9mm x 12mm Drive Size					
⅜ in	2 in	99 ft-lb	0 °	Westward	**19ZC57**
½ in	2 in	99 ft-lb	0 °	Westward	**19ZC58**
H4 Drive Size					
¼ in	3 ¼ in	250 in-lb	15 °	Proto	**4NAN3**
H7 Drive Size					
½ in	5 ⅞ in	3,000 in-lb	0 °	Proto	**4NAW6**

Electrical Connector
4AVJ9

Factory Preset Ratcheting
49AD73

Key-Adjustable
36WD66

Preset Torque Wrenches

Set to specific torque settings for tightening fasteners. **Electrical connector** wrenches feature a small profile for use inside electrical boxes and other tight spaces. **Key-adjustable** wrenches feature torque values that can be changed by the end user with a separate tool.

Drive Size	Torque Range	Overall Length	Calibration Certificate Included	Ratcheting	Head Type	Brand	Item No.
Electrical Connector Preset Torque Wrenches							
Inch-Pound							
7/16 in	0 in-lb to 20 in-lb	6 ½ in	No	No	Standard	Jonard Tools	**4AVJ7**
7/16 in	0 in-lb to 30 in-lb	6 ½ in	No	No	Standard	Jonard Tools	**4AVJ9**
9/16 in	0 in-lb to 30 in-lb	6 ½ in	No	No	Standard	Jonard Tools	**34RR16**
Factory Preset Ratcheting Torque Wrenches							
Newton-Meter							
¼ in	1 N-m to 5 N-m	7 ¼ in	Yes	Yes	Standard	Gedore	**49AD68**
⅜ in	10 ft-lb to 40 ft-lb	12 ¾ in	Yes	Yes	Standard	Gedore	**49AD73**
½ in	40 N-m to 125 N-m	18 ¼ in	Yes	Yes	Standard	Gedore	**49AD74**
Key-Adjustable Preset Ratcheting Torque Wrenches							
Inch-Pound							
¼ in	10 in-lb to 50 in-lb	7 ¼ in	Yes	Yes	Standard	Sturtevant Richmont	**36WD69**
¼ in	30 in-lb to 150 in-lb	7 ¼ in	Yes	Yes	Standard	Sturtevant Richmont	**36WD70**
⅜ in	0 in-lb to 40 in-lb	7 in	No	Yes	Flexible	Jonard Tools	**23Z373**
⅜ in	30 in-lb to 150 in-lb	8 in	Yes	Yes	Standard	Sturtevant Richmont	**36WD72**
⅜ in	150 in-lb to 750 in-lb	14 ¾ in	No	Yes	Standard	Sturtevant Richmont	**36WD66**
⅜ in	240 in-lb to 1200 in-lb	17 ½ in	Yes	Yes	Standard	Sturtevant Richmont	**36WD71**
½ in	600 in-lb to 3000 in-lb	23 in	No	Yes	Standard	Sturtevant Richmont	**36WD68**

Drive Size	Torque Range	Brand	Item No.
Bench-Mount Torque Testers			
Foot-Pound, Inch-Pound, Newton-Meter			
¼ in	5 in-lb to 50 in-lb	Proto	**53JT53**
⅜ in	5 ft-lb to 50 ft-lb	Proto	**53JT56**
	25 in-lb to 250 in-lb	Proto	**53JT50**
½ in	25 ft-lb to 250 ft-lb	Proto	**53JT48**
27 mm	60 ft-lb to 600 ft-lb	Proto	**53JT54**
Pound Force-Foot, Newton-Meter			
1 in, ½ in, ¼ in, ¾ in, ⅜ in	2 N-m to 12 N-m	Gedore	**45HL61**
	9 N-m to 55 N-m	Gedore	**45HL62**
	9 N-m to 320 N-m	Gedore	**45HL63**
	90 N-m to 1100 N-m	Gedore	**45HL64**
	500 N-m to 3150 N-m	Gedore	**45HL65**
Bench-Mount Torque Transducers			
Foot-Pound			
⅜ in	5 to 50 ft-lb	Proto	**36WX53**
½ in	15 to 150 ft-lb	Proto	**36WX54**
	25 to 250 ft-lb	Proto	**36WX55**
¾ in	50 to 500 ft-lb	Proto	**36WX56**
	60 to 600 ft-lb	Proto	**36WX57**
Inch-Pound			
¼ in	10 to 100 in-lb	Proto	**36WX51**
Handheld Torque Meters			
Centimeter-Kilogram, Foot-Pound, Inch-Ounce, Inch-Pound, Newton-Centimeter, Newton-Meter			
1 in, ½ in, ¼ in, ¾ in, ⅜ in	From 2000 ft-lb	Proto	**36WX49**
Centimeter-Kilogram, Inch-Pound , Newton-Centimeter, Newton-Meter			
1⁄32 in to 25⁄64 in	0.005 in-lb to 1 N-m	Shimpo	**49VY93**
5⁄64 in to 33⁄64 in	0.01 in-lb to 10 N-m	Shimpo	**49VY95**
Torque & Angle Meters			
Newton-Meter			
⅜ in	—	Proto	**23NU45**
½ in	—	Proto	**23NU47**
Torque Tester Stands			
Compatible with Proto Torque Testing Systems		Proto	**4NAK2**

Torque Meters, Testers & Transducers

Torque testers and **torque meters** test and measure torque wrench performance and validate that it is operating within desired specifications. **Torque and angle meters** measure both torque and the specific angle of rotation. **Transducers** convert mechanical torque into an electrical signal so the torque reading from a tool can be reviewed and recorded for future reference.

Bench-Mount Torque Tester 45HL63

Bench-Mount Torque Transducer 36WX51

Handheld Torque Meter 36WX49

Torque & Angle Meter 23NU45

Torque Multipliers

Internal gears increase the amount of torque applied to a fastener without additional manual force, extension handle, or cheater bar. Use in combination with a torque wrench and hand or nonimpact power tools. **Mountable torque multipliers** have mounting points for added stability.

Female Input Square Drive	Male Output Square Drive	Max. Rated Input	Max. Rated Output	Torque Ratio	Gear Ratio	Accuracy	Calibration Certificate Included	Brand	Item No.
Handheld Torque Multipliers for Use with Hand or Power Tools									
½ in	¾ in	200 ft-lb	1,200 ft-lb	1:6	1:6	+/-5%	No	Proto	**1ART6**
	¾ in	200 ft-lb	1,200 ft-lb	1:6	1:6	+/-5%	Yes, NIST	Proto	**4JW77**
	¾ in	250 ft-lb	750 ft-lb	1:3.33	1:3.33	+/-5%	No	Proto	**3YW21**
	¾ in	250 ft-lb	750 ft-lb	1:3.33	1:3.33	+/-5%	Yes, NIST	Proto	**4JW76**
	¾ in	300 ft-lb	1,000 ft-lb	1:3.33	1:4	+/-5%	No	Westward	**5WFP2**
	1 ½ in	154 ft-lb	8,000 ft-lb	1:52	1:52	+/-5%	No	Proto	**3R882**
	1 in	162 ft-lb	2,200 ft-lb	1:13.6	1:13.6	+/-5%	No	Proto	**1ART7**
	1 in	162 ft-lb	2,200 ft-lb	1:13.6	1:13.6	+/-5%	Yes, NIST	Proto	**4JW78**
	1 in	162 ft-lb	2,200 ft-lb	1:13.6	1:13.6	+/-5%	No	Proto	**3R880**
	1 in	173 ft-lb	3,200 ft-lb	1:18.5	1:18.5	+/-5%	No	Proto	**1ART8**
	1 in	173 ft-lb	3,200 ft-lb	1:18.5	1:18.5	+/-5%	Yes, NIST	Proto	**4JW79**
	1 ½ in	189 ft-lb	5,000 ft-lb	1:26:5	1:26.5	+/-5%	No	Proto	**3R881**
¾ in	1 in	600 ft-lb	2,000 ft-lb	1:3.33	1:4	+/-5%	No	Westward	**5WFP1**
Mountable Torque Multipliers									
½ in	¾ in	200 ft-lb	950 ft-lb	1:5	1:5	+/-3%	Yes	Gedore	**45HL66**
	1 in	220 ft-lb	2,930 ft-lb	1:16	1:16	+/-3%	Yes	Gedore	**45HL67**
	1 in	230 ft-lb	2,930 ft-lb	1:16	1:16	+/-3%	Yes	Gedore	**45HL68**
¾ in	1 ½ in	280 ft-lb	9,530 ft-lb	1:39	1:39	+/-3%	Yes	Gedore	**45HL72**
	1 ½ in	300 ft-lb	4,400 ft-lb	1:18	1:18	+/-3%	Yes	Gedore	**45HL69**
	1 ½ in	305 ft-lb	7,330 ft-lb	1:28.5	1:28	+/-3%	Yes	Gedore	**45HL71**
	1 ½ in	310 ft-lb	5,870 ft-lb	1:22	1:22	+/-3%	Yes	Gedore	**45HL70**
	1 in	410 ft-lb	2,050 ft-lb	1:5.5	1:1.5	+/-3%	Yes	Gedore	**45HL74**
	1 in	410 ft-lb	2,050 ft-lb	1:5.5	1:1.5	+/-3%	Yes	Gedore	**45HL75**
	1 in	430 ft-lb	1,500 ft-lb	1:4	1:4	+/-3%	Yes	Gedore	**45HL77**
	1 in	430 ft-lb	1,500 ft-lb	1:4	1:4	+/-3%	Yes	Gedore	**45HL76**
	2 ½ in	280 ft-lb	40,330 ft-lb	1:175	1:175	+/-3%	Yes	Gedore	**45HL73**

Handheld Torque Multiplier 3YW21

Mountable Torque Multiplier 45HL66

Torque Wrench Accessories

SAE box end torque adapters allow a specific torque to be applied to a fastener that can't be accessed by a regular socket. **Dremometers** add a ratcheting function to a torque wrench. T-shaped **adjustment keys** adjust the torque value on key-adjustable preset torque wrenches. **Head extensions** extend the reach of torque wrenches. **Repair kits** include parts for torque wrench maintenance and repair.

Size	Overall Length	Brand	Item No.
SAE Box End Torque Adapters			
⅜ in Drive Size			
⅜ in	2 11⁄16 in	Proto	**1Q811**
7⁄16 in	2 ¾ in	Proto	**1Q812**
½ in	2 13⁄16 in	Proto	**1Q813**
9⁄16 in	2 13⁄16 in	Proto	**1Q814**
⅝ in	2 ⅞ in	Proto	**1Q815**
11⁄16 in	2 15⁄16 in	Proto	**1Q816**
¾ in	2 15⁄16 in	Proto	**1Q817**
⅞ in	3 1⁄16 in	Proto	**1Q819**

Size	Overall Length	Brand	Item No.
Dremometers			
Compatible with GEDORE Dremometers			
1 13⁄16 in	1 25⁄64 in	Gedore	**45HM04**
1 ⅜ in	1 7⁄64 in	Gedore	**45HM03**
2 ⅞ in	2 31⁄64 in	Gedore	**45HM06**
2 9⁄16 in	2 3⁄32 in	Gedore	**45HM05**

Torque Range	Brand	Item No.
Torque Wrench Adjustment Keys		
Compatible with All Preset and Micrometer Wrenchess		
0 to 100 ft-lb	Sturtevant Richmont	**36WD75**
Head Extensions		
Compatible with Brand Sturtevant Richmont, Series LTCEs		
16 to 800 in-lb	Sturtevant Richmont	**36WD43**

Drive Size	Torque Range	Brand	Item No.
Torque Wrench Repair Kits			
Compatible with ⅜ in Torque Wrenches			
32 mm	3 N-m to 100 ft-lb	Sturtevant Richmont	**36WD77**
Compatible with ½ in Torque Wrenches			
30 mm	3 N-m to 250 ft-lb	Sturtevant Richmont	**36WD76**
Compatible with All ¾ in Ratchets			
¾ in	0 to 700 ft-lb	Sturtevant Richmont	**36WD78**

SAE Box End Torque Adapter 1Q811

Dremometer 45HM04

Torque Wrench Adjustment Key 36WD75

Torque Wrench Repair Kit 36WD78

Screwdriver Types

Ball-end have a ball end at the tip of the shaft that can tighten and loosen screws from multiple angles in hard-to-reach locations.

Ball-end hex have a hex ball end at the tip of the shaft that can tighten and loosen hex head screws from multiple angles.

Demolition have a steel shaft in the handle for prying, chiseling, and punching. The shaft transfers the impact force from the striking plate to the tip.

ESD-safe dissipate electrostatic charges when turning screws on static-sensitive electrical components.

Hex have a handle and a shaft end with an hexagonal (six-sided) tip.

Insulated have an insulated handle and shaft to protect against electrical shock from live electrical circuits.

Keystone-style have a slightly flared blade profile that tapers off at the end and provides extra stiffness withstanding torque.

Precision have handles with a rotating cap for precise turning and control when working in tight spaces or with tiny screws.

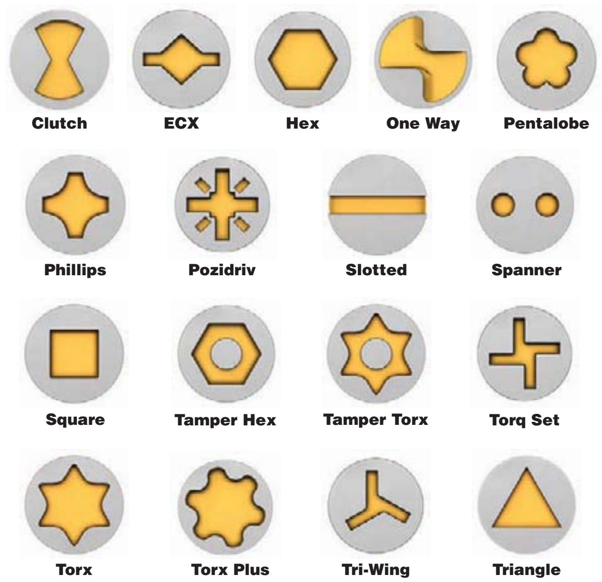
Screw starters hold small screws in place for initial installation in hard-to-reach locations.

Square self-centering, square tip that is less likely to slip out and damage the screwhead compared to a slotted head screwdriver.

Tether-ready have a loop for attaching a tether to prevent the tool from falling and causing injuries or damage when working at height.

Torx tips have a six-point star-shaped pattern. They provide a more secure grip on the fastener head, increase torque transfer, and are less likely to slip out of the head.

Tip Styles



5 pc.
53JT25

10 pc.
401L82

General Purpose Screwdriver Sets

No. of Pieces	Tip Style	Tip Size	Grip Style	Container Type	Brand	Item No.
2	Phillips, Slotted	1/4 in	Ergonomic	None	Klein Tools	**2RKP1**
2	Phillips, Slotted	5/16 in	Ergonomic	None	Klein Tools	**2DGE4**
3	Phillips, Slotted	1/2 in, 5/16 in	Molded	None	Mayhew	**4WMD8**
4	Phillips, Slotted	#0, 1/16 in, 1/8 in, 3/32 in	Ergonomic	None	Klein Tools	**335D12**
4	Phillips, Slotted	#1, #2, 1/4 in, 3/16 in	Ergonomic	None	Westward	**401K87**
4	Phillips, Slotted	1/16 in, 1/8 in, 3/32 in	Ergonomic	None	Klein Tools	**1YBP7**
4	Square	#0, #1, #2, #3	Ergonomic	None	Klein Tools	**2RKP2**
4	Square	#0, #1, #2, #3	Fluted	None	Westward	**401K86**
5	Phillips	#1, #2, #3, #4	Ergonomic	None	STANLEY	**53JT26**
5	Phillips, Slotted	#1, #2, 1/4 in, 3/16 in, 5/16 in	Ergonomic	None	Westward	**401K88**
5	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Ergonomic	None	Klein Tools	**2RKN9**
5	Slotted, Square	1/4 in, 3/8 in, 5/16 in	Ergonomic	None	STANLEY	**53JT25**
5	Torx	T15, T20, T25, T27, T30	Ergonomic	None	Klein Tools	**1YBR7**
6	Cabinet, Keystone	1/4 in, 3/16 in, 3/8 in, 5/16	Cushion	—	Proto	**61XK40**
6	Phillips	#0, #1, #2, #3, #4	Cushion	—	Proto	**61XK39**
6	Phillips	#1, #2, #3, #4	Comfort Grip	Plastic Case	Ability One	**39CE07**
6	Phillips, Slotted	#1, #2, 1/4 in, 1/8 in, 5/32 in, 7/32 in	Ergonomic	Rack	Wera	**3EJU5**
6	Phillips, Slotted	#1, #2, 1/4 in, 3/16'	Ergonomic	None	Westward	**401L74**
6	Phillips, Slotted	#1, #2, 1/4 in, 3/16 in, 5/16 in	Ergonomic	None	STANLEY	**1GZ06**
6	Slotted	3/16 in to 3/8 in	Comfort Grip	Plastic Case	Ability One	**39CD92**
6	Torx	T10, T15, T20, T25, T27, T30	Ergonomic	None	Westward	**401L78**
7	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Ergonomic	None	Klein Tools	**5LL68**
7	Phillips, Slotted	1/4 in, 5/16 in	Comfort Grip	Plastic Case	Ability One	**39CE04**
7	Slotted, Square	1/4 in, 3/8 in, 5/16 in	Molded	None	STANLEY	**53JT24**
8	Cabinet, Keystone, Phillips	#1, #2, 1/4 in, 3/16 in, 3/8'', 5/16 in	Cushion	—	Proto	**61XK45**
8	Phillips, Slotted	#0, #1, #2, 1/4 in, 1/8 in, 3/16 in	Ergonomic	None	Westward	**401L79**
8	Phillips, Slotted	#1, #2, #3, 1/4 in, 3/8 in, 5/16 in	Molded	None	STANLEY	**53JT23**
8	Phillips, Slotted	#1, #2, #3, 1/4 in, 3/8 in, 5/16 in	Fluted	None	Westward	**401L75**
8	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Ergonomic	None	Klein Tools	**2DGP6**
10	Phillips, Slotted, Square	#1, #2, #3, 1/4 in, 3/16 in, 5/16 in	Ergonomic	None	Westward	**401L82**
14	Phillips, Slotted, Torx	#0, #1, #2, 1/4 in, 1/8 in, 3/16 in, 5/16 in, 9/32 in, T15, T20	Ergonomic	None	Westward	**401L80**
17	Phillips, Slotted	#0, #1, #2, #3, #4, 1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in	Fluted	None	Westward	**401L76**
18	Phillips, Slotted	#0, #1, #2, #3, #4, 1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in	Ergonomic	None	STANLEY	**53JT27**
19	Cabinet, Keystone, Phillips	#0-#4, 1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in	Rubber	—	Proto	**793K38**
26	Phillips, Slotted, Square, Torx	#0, #00, #1, #2, #3, #4, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, Scratch Awl, T10, T15, T20, T25, T30	Ergonomic	None	Westward	**401L81**
50	Hex, Nut Driver, Pentalobe, Phillips, Slotted, Torx	1.3 mm, 1.5 mm, 1/16 in, 1/32 in, 1/64 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/32 in, 3/64 in, 5/32 in, 5/64 in, 7/64 in, 9/64 in, PL1, PL2, PL3, PL4, T1, T10, T2, T3, T4, T5, T6, T7, T8, T9	Ergonomic	Metal Stand	Wiha Tools	**440A39**
51	Hex, Nut Driver, Pentalobe, Phillips, Slotted, Torx	#0, #00, #000, #1, 0.028 in, 0.035 in, 0.05 in, 0.8 mm, 1 mm, 1.2 mm, 1.27mm, 1.5 mm, 1.8mm, 1/16 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 3/32 in, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 5/32 in, 5/64 in, 7/64 in, 9/64 in, T1, T10, T2, T3, T4, T5, T6, T7, T8, T9	Ergonomic	Molded Tray	Wiha Tools	**440A40**

For more information on Screwdrivers and Tip Styles, see page 796.

Demolition Screwdriver Sets

401L77

- Ergonomic grip style

No. of Pieces	Tip Style	Tip Size	Brand	Item No.
2	Phillips, Slotted	5/16 in	Milwaukee	55ZY98
6	Phillips, Slotted	#1, #2, #3, 1/4 in, 3/16 in, 5/16 in	Westward	401L77

Tether-Ready Screwdriver Sets

- Ergonomic grip style

No. of Pieces	Tip Style	Tip Size	Brand	Item No.
4	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZZ24
6	Phillips	#0, #1, #2, #3, #4	Proto	24AK63
6	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZZ25
6	Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZY99 *
6	Slotted, Square	1/4 in, 3/16 in, 3/8 in, 5/16 in	Proto	24AK56
8	ECX, Phillips, Slotted	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZZ01
8	Phillips, Slotted, Square	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZZ03
10	Phillips, Slotted, Square	1/4 in, 3/16 in, 5/16 in	Milwaukee	55ZZ02

**Magnetized Tip*

55ZZ24

Insulated Screwdriver Sets

- Ergonomic grip style

No. of Pieces	Tip Style	Tip Size	Container Type	Brand	Item No.
Insulated Tether-Ready Screwdriver Sets					
3	ECX, Phillips, Slotted	#0, #1, #2, #4, 1/4 in, 1/8 in, 3/16 in, 3/18 in, 5/16 in	None	Milwaukee	23TE74
4	Phillips, Slotted	#1, #2, 1/4 in, 3/8 in	None	Milwaukee	55ZY78
10	ECX, Phillips, Slotted, Square	1/4 in, 3/8 in, 5/16 in	None	Milwaukee	23TE76
Insulated Screwdriver Sets					
2	Phillips, Slotted	#1, #2	None	Wiha Tools	53KH21
4	Phillips, Slotted	1/4 in, 5/32 in	Rack	Wera	6AAC0
	Phillips, Slotted	3.5 mm, 4.5 mm	None	Wiha Tools	5LW88
5	Phillips, Slotted	3 mm, 4.5 mm, 6.5 mm	None	Wiha Tools	38VY79
6	Phillips, Slotted	#1, #2, #3	Rack	Wera	6AAC1
	Phillips, Slotted	3/32 in, 5/32 in, 7/32 in, 9/64 in	Rack	Wera	6ANJ7
	Phillips, Slotted	3 mm, 4.5 mm, 6.5 mm	None	Wiha Tools	5LW89
	Phillips, Slotted, Square	1/32 in, 3/64 in	Rack	Wera	6ANJ8
	Phillips, Slotted, Square	1/4 in, 3/16 in	None	Wiha Tools	26X287
	Phillips, Slotted, Square	4.5 mm, 6.5 mm	None	Wiha Tools	26X286
	Torx	T10, T15, T20, T25, T27, T30	None	Wiha Tools	450G70
	Torx	T10, T15, T20, T25, T8, T9	None	Wiha Tools	5LW92
7	Phillips, Slotted, Square	1/4 in, 5/32 in, 7/32 in	None	Wiha Tools	53KG39
8	Phillips, Slotted, Square	3.5 mm, 4 mm, 4.5 mm, 5.5 mm	None	Wiha Tools	26X285
9	Phillips, Slotted	#1, #2, #3, 1/4 in, 1/8 in, 3/32 in, 5/16 in, 5/32 in, 7/32 in	None	Westward	1YXN6
	Phillips, Slotted	1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in	None	Klein Tools	1N048
10	Phillips, Slotted	1/8 in, 3/32 in, 5/32 in, 7/32 in	Rack	Wera	6AAA8
	Phillips, Slotted	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 6.5 mm	None	Wiha Tools	53KG41
11	Phillips, Slotted, Square	3.5 mm, 4 mm, 4.5 mm, 5.5 mm, 6.5 mm	None	Wiha Tools	26X281
12	Phillips, Slotted, Square	#0, #1, #2, #3, 0.4 to 1.2 mm	Rack	Wera	45J369
13	Phillips, Slotted	10 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 6.5 mm, 8 mm	None	Wiha Tools	53KG42
19	Phillips, Slotted, Square	10 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 5.5 mm, 6 mm, 6.5 mm, 8 mm	Molded Tray	Wiha Tools	26X279
Insulated Precision Screwdriver Sets					
5	Phillips, Slotted	1/16 in, 3/32 in, 9/64 in	None	Wiha Tools	53KG38
7	Phillips, Slotted	1/16 in, 1/8 in, 5/64 in, 7/64 in	None	Witte	10K135
	Phillips, Slotted	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm	Plastic Case	Wiha Tools	53KG47
8	Phillips, Slotted	1.5 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm	None	Wiha Tools	53KG40
10	Torx	T10, T15, T20, T25, T27, T30, T6, T7, T8, T9	None	Wiha Tools	53KG77
30	Phillips, Slotted, Square	1/16 in, 1/4 in, 11/64 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 9/64 in	Metal Stand	Wiha Tools	53KG48

Tether-Ready Insulated Set 23TE74

Insulated Set 53KH21

Precision Insulated Set 53KG38

ESD-Safe Screwdriver Sets

No. of Pieces	Tip Style	Tip Size	Container Type	Brand	Item No.
ESD-Safe Screwdriver Sets					
6	Phillips, Slotted	1/16 in, 3/64 in, 5/64 in	Rack	Wera	6CRV2
	Phillips, Slotted	3 mm, 4 mm, 5.5 mm	None	Wiha Tools	2MPL9
8	Torx	T1 to TR8	Pouch	Moody Tool	6LEV2
ESD-Safe Precision Screwdriver Sets					
7	Phillips, Slotted	#0, #00, #1, 1.5 mm, 2 mm, 2.5 mm, 3.5 mm	None	Wiha Tools	56FR54
	Phillips, Slotted	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm	None	Wiha Tools	2MPL3
	Torx	T10, T4, T5, T6, T7, T8, T9	None	Wiha Tools	56FR55
8	Phillips, Slotted	#0, #00, #000, #1, 1.5 mm, 2 mm, 2.5 mm, 3 mm	Pouch	Wiha Tools	56FR37
9	Phillips, Slotted, Torx	1/8 in, 5/64 in, 7/64 in	Pouch	Eclipse	22C723
11	Hex, Phillips, Slotted, Torx	1.5 mm, 2 mm, 3 mm	Pouch	Wera	38UR94
50	Hex, Nut Driver, Phillips, Slotted, Torx	#0, #00, #000, #1, 0.7 mm, 0.8 mm, 0.9 mm, 1 mm, 1.2 mm, 1.3 mm, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 3/16 in, 3/32 in, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 5/32 in, 7/64 in, T1, T10, T15, T2, T20, T3, T4, T5, T6, T7, T8, T9	Metal Stand	Wiha Tools	56FR53

Screwdriver Set 6LEV2

Precision Set 56FR54

Precision Screwdriver Sets

- Ergonomic grip style except where noted*

No. of Pieces	Tip Style	Tip Size	Container Type	Brand	Item No.
4	Phillips	#0, #00, #000, #1	None	Wiha Tools	2MPK6
5	Hex	1.3 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm	None	Wiha Tools	30D411
	Phillips, Slotted	1/8 in, 3/32 in, 5/32 in	None	Wiha Tools	2MPK5
6	Pentalobe	PL1, PL2, PL3, PL4, PL5, PL6	None	Wiha Tools	16ML67
	Slotted	1/16 in, 1/8 in, 3/32 in, 5/32 in, 5/64 in, 9/64 in	None	Wiha Tools	30D376
	Torx	T10, T15, T6, T7, T8, T9	None	Wiha Tools	2MPL2
7	Hex	0.7 mm, 0.9 mm, 1.3 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm	None	Wiha Tools	5LW64
	Phillips, Slotted	1/8 in, 3/32 in, 5/32 in	None	Wiha Tools	5LW55
8	Hex	1/16 in, 1/8 in, 3/32 in, 3/64 in, 5/32 in, 5/64 in, 7/64 in, 9/64 in	None	Wiha Tools	2MPK7
	Phillips, Slotted	1/32 in, 1/8 in, 5/32 in, 5/64 in	Pouch	Wiha Tools	30D388
	Torx	T1, T2, T3, T4, T5, T6, T7, T8	None	Wiha Tools	440A37
	Torx	T1, T2, T3, T4, T5, T6, T7, T8	Pouch	Wiha Tools	30D451
	Torx	T10, T3, T4, T5, T6, T7, T8, T9	Pouch	Wiha Tools	30D452
12	Hex, Phillips, Slotted	#0, #00, #000, 1/16 in, 1/8 in, 3/32 in, 5/64 in, 7/64 in	None	Westward	401L47
50	Hex, Phillips, Slotted, Torx	1.3 mm, 1.5 mm, 1/16 in, 1/32 in, 1/64 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/32 in, 3/64 in, 5/32 in, 5/64 in, 7/64 in, 9/64 in	Metal Stand	Wiha Tools	30D486
55	Hex, Phillips, Slotted	.025 in, .040 in, .055 in, .070 in, .080 in, .100 in, #0, #1, 1/8 in, 3/32 in, 5/32 in, 5/64 in, 7/64 in	Pouch	Moody Tool	6LER6 *

** Metal grip*

5LW55

For more information on Screwdrivers and Tip Styles, see page 796.

Nonsparking Screwdriver Sets

- 6 Pieces
- Phillips, slotted tip style
- Pouch container

5MM02

Tip Size	Grip Style	Brand	Item No.
#1, #2, #3, 25⁄64 in, 5⁄16 in, 7⁄16 in	Ergonomic	Westward	**23X839**
#1, #2, #3, ⅜ in, 5⁄16 in	Molded	Ampco	**5MM02**

Screw Starter Set

No. of Pieces	Tip Style	Tip Size	Grip Style	Item No.
3	Slotted, Square	¼ in, 3⁄16 in, 5⁄16 in	Plain	**2DHC7**

5HYK7

Ball End Screwdriver Sets

No. of Pieces	Tip Style	Tip Size	Grip Style	Container Type	Brand	Item No.
7	Torx	T10, T15, T20, T25, T27, T30, T9	Ergonomic	None	Wiha Tools	**5HYK7**
8	Hex	1⁄16 in, ½ in, ⅛ in, 3⁄32 in, 5⁄32 in, 5⁄64 in, 7⁄64 in, 9⁄64 in	Fluted	Pouch	Eklind	**5LN03**
9	Hex	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	Fluted	Pouch	Eklind	**5LN06**
13	Hex	1⁄16 in, ½ in, ¼ in, ⅛ in, 3⁄16 in, 3⁄32 in, ⅜ in, 5⁄16 in, 5⁄32 in, 5⁄64 in, 7⁄32 in, 7⁄64 in, 9⁄64 in	Fluted	Pouch	Eklind	**5LN04**

Slotted Screwdrivers

General Purpose Keystone 53JT07

Demolition 401M08

Insulated Precision 53KG36

Precision 5LW48

Tip Size	Overall Length	Grip Style	Handle Material	Brand	Item No.
General Purpose Cabinet Slotted Screwdrivers					
3⁄32"	5¾"	Ergonomic	Rubber	Klein Tools	**1YBP5**
⅛"	5¾"	Ergonomic	Rubber	Klein Tools	**2DFY5**
	6¾"	Ergonomic	Plastic	Klein Tools	**2DGV9**
	7¾"	Ergonomic	Plastic	Klein Tools	**15W151**
3⁄16"	6¾"	Ergonomic	Rubber	Klein Tools	**2DGV1**
	7¾"	Ergonomic	Rubber	Klein Tools	**2DGV2**
	9¾"	Ergonomic	Plastic	Klein Tools	**2DGV3**
	9¾"	Ergonomic	Plastic	STANLEY	**53JT15**
	11¾"	Ergonomic	Rubber	Klein Tools	**2DFW9**
	13¾"	Ergonomic	Plastic	Klein Tools	**2DGU9**
¼"	8¼"	Ergonomic	Plastic	Klein Tools	**2DFX6**
	8¼"	Ergonomic	Rubber	Klein Tools	**5LL57**
	10¼"	Ergonomic	Rubber	Klein Tools	**5LL58**
	10¼"	Ergonomic	Plastic	Westward	**401L06**
	12¼"	Ergonomic	Rubber	Klein Tools	**5LL59**
5⁄16"	3¼"	Ergonomic	Rubber	Klein Tools	**4A844**
⅜"	13¼"	Ergonomic	Plastic	STANLEY	**53JT10**
	17¼"	Ergonomic	Plastic	STANLEY	**53JT12**
	23¼"	Molded	Plastic	Klein Tools	**2DEV6**
7⁄16"	14¾"	Molded	Plastic	Ability One	**39CD94**
General Purpose Keystone Slotted Screwdrivers					
⅛"	4½"	Fluted	Plastic	Westward	**401M02**
	6½"	Fluted	Plastic	Westward	**401M03**
3⁄16"	7½"	Fluted	Plastic	Westward	**401L93**
¼"	3½"	Ergonomic	Plastic	STANLEY	**53JT07**
	8"	Ergonomic	Plastic	STANLEY	**53JT08**
	8"	Fluted	Plastic	Westward	**401L94**
	8¼"	Ergonomic	Plastic	Klein Tools	**4A845**
	8¼"	Ergonomic	Plastic	STANLEY	**53JR99**
	8¼"	Ergonomic	Plastic	Westward	**401M06**
	8½"	Ergonomic	Plastic	STANLEY	**6R533**
	8½"	Ergonomic	Plastic	Westward	**401M30**
	10"	Fluted	Plastic	Westward	**401L97**
5⁄16"	10"	Ergonomic	Plastic	Klein Tools	**2DFX7**
	10½"	Fluted	Plastic	Westward	**401L89**
	10¾"	Ergonomic	Rubber	Klein Tools	**4A846**
	11"	Ergonomic	Plastic	STANLEY	**53JT02**
⅜"	12½"	Fluted	Plastic	Westward	**401L90**
	13¼"	Ergonomic	Rubber	Klein Tools	**4A847**
	13¼"	Ergonomic	Plastic	STANLEY	**53JT06**
	14½"	Fluted	Plastic	Westward	**401L96**
	15¼"	Ergonomic	Rubber	Klein Tools	**2DFX2**
	15¼"	Ergonomic	Plastic	STANLEY	**53JT04**
	17¼"	Ergonomic	Plastic	Klein Tools	**2DFX3**
	17¼"	Ergonomic	Plastic	STANLEY	**53JT05**
½"	14¾"	Fluted	Plastic	Westward	**401L91**
	16¾"	Fluted	Plastic	Westward	**401L92**
	17¼"	Ergonomic	Plastic	Klein Tools	**2RKN8**
Magnetic Tip Keystone Slotted Screwdrivers					
¼"	8"	Ergonomic	Plastic, Rubber	STANLEY	**787UA7**
	10¼"	Ergonomic	Plastic	STANLEY	**53JT01**
5⁄16"	13"	Ergonomic	Plastic	STANLEY	**53JT03**
Demolition Keystone Slotted Screwdrivers					
¼"	8½"	Ergonomic	Plastic	Westward	**401M08**
	9"	Ergonomic	Plastic	Klein Tools	**21HD51**
	10½"	Ergonomic	Plastic	Westward	**401M09**
5⁄16"	10¾"	Ergonomic	Plastic	Westward	**401M10**
	12¼"	Ergonomic	Plastic	Klein Tools	**21HD52**
	12¾"	Ergonomic	Plastic	Westward	**401M11**
⅜"	12¾"	Ergonomic	Plastic	Westward	**401M12**
	14¾"	Ergonomic	Plastic	Westward	**401M13**

Tip Size	Overall Length	Grip Style	Handle Material	Brand	Item No.
Nonsparking Keystone Slotted Screwdrivers					
3⁄16"	6½"	Plain	Plastic	Ampco	**21XV85**
¼"	7½"	Plain	Plastic	Ampco	**46C026**
5⁄16"	10"	Plain	Plastic	Ampco	**4CZ95**
⅜"	13"	Ergonomic	Plastic	Ampco	**4CZ96**
	17"	Plain	Plastic	Ampco	**4CZ97**
Insulated Cabinet Slotted Screwdrivers					
3⁄32"	6¾"	Insulated	Plastic	Klein Tools	**49C224**
⅛"	7¾"	Insulated	Plastic	Klein Tools	**49C225**
9⁄64"	8"	Ergonomic	Plastic	Wiha Tools	**26X293**
3⁄16"	7¾"	Ergonomic	Plastic	Klein Tools	**1N049**
	10¾"	Insulated	Plastic	Klein Tools	**49C226**
¼"	8¼"	Ergonomic	Plastic	Klein Tools	**1N053**
	11¼"	Insulated	Plastic	Klein Tools	**49C227**
5⁄16"	12¼"	Insulated	Plastic	Klein Tools	**49C228**
⅜"	13¼"	Insulated	Plastic	Klein Tools	**49C229**
Insulated Keystone Slotted Screwdrivers					
3⁄32"	7"	Molded	Plastic	Wiha Tools	**26X301**
⅛"	8"	Molded	Plastic	Wiha Tools	**26X302**
9⁄64"	8"	Molded	Plastic	Wiha Tools	**1YUF8**
3⁄16"	9¼"	Molded	Plastic	Wiha Tools	**1YUF9**
¼"	10½"	Molded	Plastic	Wiha Tools	**1YUG1**
Insulated Precision Cabinet Slotted Screwdrivers					
⅛"	160-mm	Molded	Plastic	Wiha Tools	**53KG36**
	7"	Ergonomic	Plastic	Knipex	**10K153**
9⁄64"	160-mm	Molded	Plastic	Wiha Tools	**53KG37**
ESD-Safe Precision Cabinet Slotted Screwdrivers					
3⁄32"	6¼"	Ergonomic	Plastic	Wera	**6CRR3**
	7"	Ergonomic	Plastic	Wera	**6CRR4**
⅛"	7"	Ergonomic	Plastic	Wera	**6CRR5**
9⁄64"	7"	Ergonomic	Plastic	Wera	**6CRR6**
Tether-Ready Keystone Slotted Screwdrivers					
3⁄16"	7"	Plain	Plastic	Proto	**24AK58**
¼"	7"	Ergonomic	Rubber	Milwaukee	**55ZZ09**
	8"	Plain	Plastic	Proto	**24AK59**
5⁄16"	10¼"	Plain	Plastic	Proto	**24AK60**
Precision Cabinet Slotted Screwdrivers					
1⁄16"	4½"	Molded	Plastic	Wiha Tools	**5LW48**
5⁄64"	4½"	Molded	Plastic	Wiha Tools	**5LW50**
3⁄32"	5½"	Molded	Plastic	Wiha Tools	**5LW51**
	7¾"	Molded	Plastic	Wiha Tools	**30D364**
⅛"	5½"	Molded	Plastic	Wiha Tools	**5LW52**
	6¼"	Ergonomic	Plastic	Westward	**401L51**
	8¼"	Molded	Plastic	Wiha Tools	**30D366**
9⁄64"	6½"	Molded	Plastic	Wiha Tools	**5LW53**
Pocket Clip & Keychain Cabinet Slotted Screwdrivers					
3⁄32"	4¼"	Molded	Plastic	Klein Tools	**2DEU8**
	5½"	Ergonomic	Plastic	STANLEY	**53JR96**
	6½"	Ergonomic	Plastic	STANLEY	**53JR97**
⅛"	3¾"	Molded	Plastic	Klein Tools	**2DEU9**
	4¾"	Molded	Plastic	Klein Tools	**2DGY4**
	5¼"	Ergonomic	Plastic	STANLEY	**53JR95**
Cabinet Slotted Screw Starters					
3⁄16"	5¼"	Plain	Plastic	Klein Tools	**2DHB9**
	10¼"	Plain	Plastic	Klein Tools	**2DFC2**
¼"	7¾"	Plain	Plastic	Klein Tools	**2DHC1**
	9¾"	Plain	Plastic	Klein Tools	**2DHC2**
	11¾"	Plain	Plastic	Klein Tools	**2DHC3**
5⁄16"	10¼"	Plain	Plastic	Klein Tools	**2DHC4**
	12¼"	Plain	Plastic	Klein Tools	**2DFC3**

For more information on Screwdrivers and Tip Styles, see page 796.

General Purpose
401L84

Demolition
401M15

Insulated
1YUG2

Screw-Holding Tip
5KPJ7

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Phillips Screwdrivers

Tip Size	Overall Length	Grip Style	Handle Material	Brand	Item No.
General Purpose Phillips Screwdrivers					
# 0	5"	Fluted	Plastic	Klein Tools	2DFC4
# 0	5¾"	Ergonomic	Rubber	Klein Tools	1YBP3
# 1	6¾"	Ergonomic	Rubber	Klein Tools	4A849
# 1	6¾"	Ergonomic	Plastic	Westward	401M45
# 1	7"	Ergonomic	Plastic	Westward	401M19
# 2	3¼"	Ergonomic	Rubber	Klein Tools	2DGV5
# 2	8"	Fluted	Plastic	Westward	401L84
# 2	8¼"	Ergonomic	Plastic	Klein Tools	4A848
# 2	8½"	Ergonomic	Plastic	Westward	401K99
# 2	11¼"	Ergonomic	Rubber	Klein Tools	5LL56
# 2	11½"	Molded	Plastic	Klein Tools	2DFC8
# 2	12"	Molded	Plastic	Westward	401M51
# 2	12½"	Ergonomic	Plastic	Westward	401M21
# 2	14¼"	Ergonomic	Rubber	Klein Tools	2DGV6
# 2	15½"	Molded	Plastic	Klein Tools	2DFC7
# 2	24½"	Molded	Plastic	Klein Tools	2DFC6
# 2	28½"	Plain	Plastic	Proto	13G999
# 3	10¾"	Ergonomic	Plastic	Westward	401M50
# 3	11"	Ergonomic	Plastic	Klein Tools	4A850
Magnetic Tip Phillips Screwdrivers					
# 0	2¾"	Ergonomic	Plastic	STANLEY	437H92
# 1	6¾"	Ergonomic	Plastic	STANLEY	53JT18
# 2	3½"	Ergonomic	Plastic	STANLEY	53JT22
# 2	8"	Ergonomic	Plastic	STANLEY	53JT19
# 2	14¼"	Ergonomic	Plastic	STANLEY	53JT21
# 4	13¾"	Ergonomic	Plastic	STANLEY	437H93
Demolition Phillips Screwdrivers					
# 2	8½"	Ergonomic	Plastic	Westward	401M15
# 2	10½"	Ergonomic	Plastic	Westward	401M16
# 3	10¾"	Ergonomic	Plastic	Westward	401M17
Insulated Phillips Screwdrivers					
# 1	7½"	Ergonomic	Plastic	Wiha Tools	1YUG2
# 1	7¾"	Insulated	Plastic	Klein Tools	49C230
# 1	204-mm	Molded	Plastic	Wiha Tools	26X291
# 2	8¼"	Ergonomic	Plastic	Klein Tools	1N056
# 2	8½"	Molded	Plastic	Wiha Tools	1YXK6
# 2	8½"	Molded	Plastic	Wiha Tools	53KF32
# 2	9¼"	Ergonomic	Plastic	Proto	425Y24
# 2	11¼"	Insulated	Plastic	Klein Tools	49C231
# 2	211-mm	Molded	Plastic	Wiha Tools	26X292
# 3	10½"	Ergonomic	Plastic	Wiha Tools	1YUG4
# 3	12¼"	Insulated	Plastic	Klein Tools	49C232
Precision Phillips Screwdrivers					
# 0	5½"	Molded	Plastic	Wiha Tools	5LW58
# 0	6¼"	Ergonomic	Plastic	Westward	401L54
# 0	6½"	Molded	Plastic	Wiha Tools	5LW59
# 00	4½"	Molded	Plastic	Wiha Tools	5LW56
# 000	4½"	Molded	Plastic	Wiha Tools	30D378
# 1	6¼"	Ergonomic	Plastic	Westward	401L55
# 1	6½"	Molded	Plastic	Wiha Tools	5LW60
Screw-Holding Tip Phillips Screwdrivers					
# 2	11"	Ergonomic	Plastic	Greenlee	5KPJ7

Wiha

440A42

Precision Multi-Bit Screw & Nut Driver Sets

- Magnetic bit retainer
- Knurled grip
- 6 ¾ overall length

Number of Tips	Sizes Incl.	Item No.
62	Hex: Hex: 0.7 mm, 0.9 mm, 1.35 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 0.05 in, 1⁄16 in, 5⁄64 in, 3⁄32 in, 7⁄64 in, 1⁄8 in, 9⁄64 in, 5⁄32 in, Pentalobe: PL1, PL2, PL3, PL4, PL5, PL6, Phillips: #000, #00, #0, #1, Slotted: 0.8 mm, 1.2 mm, 1.5 mm, 1.8 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15, T20	440A42
62	Hex: 0.7 mm, 0.9 mm, 1.35 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 0.05 in, 1⁄16 in, 5⁄64 in, 3⁄32 in, 7⁄64 in, 1⁄8 in, 9⁄64 in, 5⁄32 in, Pentablobe: PL1, PL2, PL3, PL4, PL5, PL6, Phillips: #000, #00, #0, #1, #2, Slotted: 0.8 mm, 1.2 mm, 1.5 mm, 1.8 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, Torx: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15, T20	440A43

Milwaukee · eazypower · Westward · Jonard Tools · Moody · Wiha

ECX
55ZY90

Tamper-Resistant & Specialty Tip Screwdrivers

- Plastic handle material

Tip Size	Overall Length	Grip Style	Brand	Item No.
ECX Screwdrivers				
# 1	8"	Molded	Milwaukee	55ZY89
# 2	10"	Ergonomic	Milwaukee	55ZY90
One-Way Screw Removal Screwdrivers				
# 10	2"	—	Eazypower	42W501
# 14	2"	—	Eazypower	42W503
Pentalobe Screwdrivers				
PL4	4¾"	Ergonomic	Wiha Tools	16NG83
PL5	4¾"	Ergonomic	Wiha Tools	16NG84
Pozidriv Screwdrivers				
# 2	8½"	Molded	Wiha Tools	53KF34
# 2	10"	Molded	Westward	401K92
# 3	10½"	Molded	Westward	401K93
Tamper-Resistant Hex Screwdrivers				
1⁄8"	9"	—	Eazypower	5UXW0
5⁄32"	6"	Molded	Jonard Tools	2RZU3
5⁄32"	9"	—	Eazypower	5UXW2
5⁄32"	9"	Molded	Jonard Tools	2RZU2
Tamper-Resistant Spanner Screwdrivers				
# 6	9"	—	Eazypower	5UXV0
# 8	9"	—	Eazypower	5UXV1
# 10	9"	—	Eazypower	5UXV2
Tri-Wing Screwdrivers				
# 1	6¼"	Molded	Moody Tool	6LEZ9
# 1	9"	—	Eazypower	5UXY2

General Purpose
6AAK6

Wera · Westward · KLEIN TOOLS · KNIPEX · Wiha

Torx Screwdrivers

- Plastic handle material

Tip Size	Overall Length	Grip Style	Brand	Item No.
General Purpose Torx Screwdrivers				
T8	5¼"	Ergonomic	Wera	6AAK6
T9	5½"	Ergonomic	Wera	483G09
T10	6¼"	Ergonomic	Wera	6AAK7
T10	8"	Ergonomic	Westward	401M36
T15	6¼"	Ergonomic	Wera	6AAK8
T15	8"	Ergonomic	Westward	401M37
T15	8¼"	Ergonomic	Klein Tools	2DFH7
T20	8"	Ergonomic	Wera	6AAK9
T20	8"	Ergonomic	Westward	401M38
T20	8¼"	Ergonomic	Klein Tools	2DFH8
T20	15½"	Ergonomic	Wera	483G10
T25	8"	Ergonomic	Westward	401M39
T25	8¼"	Ergonomic	Klein Tools	2DFH9
Insulated Precision Torx Screwdrivers				
T6	4¼"	Ergonomic	Knipex	10K144
T8	4¾"	Ergonomic	Knipex	10K146
T15	7"	Ergonomic	Knipex	10K149
Insulated Torx Screwdrivers				
T10	204-mm	Molded	Wiha Tools	450G71
T15	211-mm	Molded	Wiha Tools	450G72
T20	211-mm	Molded	Wiha Tools	450G73
T25	243-mm	Molded	Wiha Tools	450G74

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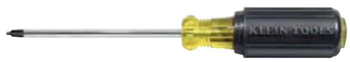

General Purpose
2DGB8

Square Screwdrivers

Tip Size	Overall Length	Grip Style	Brand	Item No.
General Purpose Square Screwdrivers				
# 1	7¾"	Ergonomic	Klein Tools	2DGB8
# 2	8¼"	Ergonomic	Klein Tools	2DGG7
# 2	12¼"	Ergonomic	Klein Tools	3MJR3
Insulated Square Screwdrivers				
# 1	8¼"	Insulated	Klein Tools	49C222
# 2	8¼"	Insulated	Klein Tools	49C223
# 2	10½"	Molded	Wiha Tools	53KH09
# 2	11¼"	Insulated	Klein Tools	48UX49
Tether-Ready Square Screwdrivers				
# 1	6"	Ergonomic	Milwaukee	55ZZ20
# 1	8½"	Ergonomic	Westward	1CLJ7
# 2	7"	Ergonomic	Milwaukee	55ZZ21

For more information on Screwdrivers and Tip Styles, see page 796.

Folding
15W146

General Purpose
3EJZ3

Offset
3R098

Pocket
401K75

Ratcheting
4LV34

Voltage Sensing
8ZKJ5

Multi-Bit Screwdrivers

- Alloy steel bit material except where noted*

Number of Tips	Sizes Incl.	Overall Length	Bit Retainer Type	Grip Style	Single/ Double End Bits	Bit Storage	Brand	Item No.
ESD-Safe Multi-Bit Screwdrivers								
0	Handle Only	90-mm	Quick Change	Ergonomic	—	None	Wera	**6CRV6**
16	Phillips: #00 + #0 + #1, Slotted:1.5 mm + 2 + 2.5 mm + 3 mm, Torx:T6 + T7 + T8 + T9 + T10 + T15 + T20	8"	Friction Hold	Ergonomic	Single End	In Handle	Wiha Tools	**30D483**
20	Phillips: #0 + #00 + #1, Slotted: 4 mm	3¾"	Locking	Ergonomic	Single End	Separate Case	Wera	**38UR93**
27	Hex: .050 in + 1/16 in + 5/64 in + 3/32 in + 7/64 in + ⅛ in + 9/64 in + 5/32 in, Phillips: #000 + #00 + #0 + #1, Slotted: 1.5 mm + 2 mm + 3 mm + 4 mm, Torx: T3 + T4 + T5 + T6 + T7 + T8 + T9 + T10 + T15	6¼"	Magnetic	Ergonomic	Single End	Separate Case	Wiha Tools	**5LX18**
37	Hex: 1.3 mm + 1.5 mm + 2 + 2.5 mm + 3 mm + 4 mm, Pentalobe PL1 + PL2 + PL3 + PL4 + PL5 + PL6, Phillips: #000 + #00 + #0 + #1 + #2, Slotted: 0.8 mm + 1.2 mm + 1.5 mm + 1.8 mm + 2 mm + 2.5 mm + 3 mm + 3.5 mm + 4 mm, Torx: T1 + T2 + T3 + T4 + T5 + T6 + T7 + T8 + T9 + T10	8"	Magnetic	Ergonomic	Single End	Separate Case	Wiha Tools	**55EU18**
ESD-Safe Precision Multi-Bit Screwdrivers								
12	Phillips: #000 + #00 + #0 + #1, Slotted:1.5 mm + 3 mm + 2 mm + 3.5 mm + 2.5 mm + 4 mm, Torx:T1 + T2 + T3 + T4 + T5 + T6 + T7 + T8 + T9 + T10 + T15	8½"	Locking	Ergonomic	Single End	Separate Case	Wiha Tools	**30D454**
Folding Multi-Bit Screwdrivers								
10	Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in, Torx: T10 + T15	9½"	Quick Change	Plain	Double End	None	Klein Tools	**15W146**
10	Tamper Resistant Torx: TR7 + TR8 + TR9 + TR10 + TR15 + TR20 + TR25 + TR27	9½"	Quick Change	Plain	Double End	None	Klein Tools	**15W148**
General Purpose Multi-Bit Screwdrivers								
2	Phillips: #2, Slotted: ¼ in	7"	Ball Bearing	Non-Slip	Double End	None	Westward	**401L11**
4	Phillips: #1 + #2, Slotted: 3/16 in + 9/32 in	7½"	Quick Change	Ergonomic	Double End	None	Klein Tools	**3MHY7**
4	Phillips: #1 + #2, Slotted: 3/16 in + ¼ in	7¾"	Quick Change	Ergonomic	Double End	None	STANLEY	**1UK65**
4	Phillips: #1 + #2, Slotted: 4R-5T + 6R-8T	8¾"	Quick Change	Ergonomic	Double End	In Handle	Proto	**45JU24**
4	Phillips: #1 + #2, Slotted: 3/16 in + ¼ in	9"	Quick Change	Ergonomic	Double End	None	Klein Tools	**15W143**
4	Phillips: #2, Robertson Square Recess: S1 + S2, Slotted: ¼ in	9"	Quick Change	Ergonomic	Double End	None	Klein Tools	**15W144**
5	Phillips: #1 + #2, Slotted: 3/16 in + 7/32 in + ¼ in	6"	Quick Change	Ergonomic	Single End	In Handle	Wera	**3EJZ3** *
6	Phillips: #1 + #2, Slotted: 3/16 in + ¼ in, Torx T15 + T20	3¼"	Magnetic	Non-Slip	Single End	In Handle	Westward	**401K74**
6	Hex: ¼ in + 5/16 in, Phillips: #1 + #2, Slotted: 3/16 in + 9/32 in	7½"	Ball Bearing	Non-Slip	Double End	None	Westward	**401L10**
6	Phillips: #1 + #2 + #3, Slotted: 3/16 in + 7/32 in + ¼ in	7½"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**3EKC2**
6	Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in	7¾"	Quick Change	Ergonomic	Double End	None	Klein Tools	**23NN72**
6	Hex: ⅜ in, Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in	7¾"	Quick Change	Ergonomic	Single End and Double End	None	Klein Tools	**15W141**
7	Hex: 3/32 in + 7/64 in + ⅛ in + 9/64 in + 5/32 in + 3/16 in + 7/32 in + ¼ in + 2 mm + 3mm + 4 mm + 5 mm + 5.5 mm +6mm	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**1PMA8**
7	Phillips: #0 #1 + #2 + #3, Phillips: DoubleLok #2, Slotted: #3 + #4 + #5 + #5.5 + #6	8½"	Quick Change	Non-Slip	Single End	In Handle	Megapro	**4KTG1**
8	Phillips: #1, Robertson Square Recess: S1 + S2, Slotted: 4R-5T + 6R-8T, Torx: T10 + T20	7¼"	Magnetic	Ergonomic	Double End	In Handle	Proto	**45JU26**
8	Phillips: #1, Robertson Square Recess: S1 + S2, Slotted: 4R-5T + 6R-8T, Torx: T10 + T20	7¼"	Quick Change	Ergonomic	Double End	In Handle	Proto	**45JU25**
8	Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in, Torx: T10 + T15	7¾"	Quick Change	Ergonomic	Double End	None	Klein Tools	**5LL46**
8	ECX: #1 + #2, Nut Driver: ¼ in + ⅜ in, Phillips: #1 + #2, Slotted: ¼ in + 3/16 in, Square #1 + #2	10"	Quick Change	Ergonomic	Double End	In Handle	Milwaukee	**406R65**
9	Phillips: #1 + #2, Slotted: 3/16 in + ¼ in, Square Recess: #1 + #2 + Nut Driver: Hex: ¼ in + 5/16 in + ⅜ in	7¼"	Ball Bearing	Ergonomic	Double End	None	Westward	**401L13**
9	Nut Driver: ¼ in + 3/16 in, Phillips: #1 + #2, Slotted: ¼ in + 3/16 in, Square #1 + #2, Torx #10 + #15	10"	Quick Change	Ergonomic	Single End	In Handle	Milwaukee	**406R66**
12	ECX: #1 + #2, Nut Driver ¼ in + 5/16 in + ⅜ in + ½ in, Phillips: #1 + #2, Robertson Square Recess: #1 + #2, Slotted: 3/16 in + ¼ in	7½"	Locking	Ergonomic	Double End	In Handle	Milwaukee	**483K40**
12	Nut Driver: ¼ in + 5/16 in + ⅜ in + ½ in, Phillips: #1 + #2, Robertson Square Recess: #1 + #2, Slotted: 3/16 in + ¼ in	7½"	Locking	Ergonomic	Double End	In Handle	Milwaukee	**483K41**
12	Nut Driver: ¼ in + 5/16 in + ⅜ in, Phillips: #1 + #2, Slotted: ¼ in + 3/16 in, Square: #1 + #2, Torx: T10 + T15	7¾"	Quick Change	Ergonomic	Double End	In Handle	Greenlee	**499N24**
12	Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #0 + #1 + #2 + #3, Slotted: #4 + #6, Torx T10 + T15 + T20 + T25	8½"	Locking	Non-Slip	Double End	In Handle	Megapro	**5PA35**
12	Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #0 + #1 + #2 + #3, Slotted: #4 + #6, Torx T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**5PA33** *
12	Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #0 + #1 + #2 + #3, Slotted: #4 + #6, Torx T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	None	Megapro	**2MRT7**
12	Phillips: #0 + #1 + #2 + #3, Robertson Square Recess:#0 + #1 + #2 + #3, Slotted: #4 + #6, Torx T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**2FRU2**
14	Spanner #6 + #8 + #10 + #12, Tamper Resistant Hex: ⅛ in + 9/64 in + 5/32 in + 3/16 in, Tamper Resistant Torx TR10 + TR15 + TR20 + TR25 + TR27 + TR30	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**5PA34**
14	Torq-Set:TS4 + TS6 + TS8 + TS10, Torx Plus TP10 + TP15 + TP20 + TP25 + TP27 + TP30, Tri-Wing TW2 +TW3 + TW4 + TW5	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**2MRR8**
14	Phillips: #0 + #3 + #1 + #2, Slotted: #4 + #6, Spanner: #6 + #8 + #10 + #12, Torx: T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**4KTG2**
14	Hex: ⅛ in + 9/64 in + 5/32 in + 3/16 in, Phillips: #1 + #2 + #3, Slotted: #4 + #6 + Torx: T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**22XT28**
17	Hex: 3/32 in + ⅛ in + 5/32 in + 3/16 in, Phillips: #1 + #2 + #3, Robertson Square Recess: #1 + #2 + #3, Slotted: 9/16 in, Tamper Resistant Torx: TR10 + TR15 + TR20 + TR25 + TR30	3½"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**3EJZ2**
17	Hex: 3 mm + 4 mm + 5 mm + 6 mm, Phillips: #1 + #2 + #3, Pozidriv: #1 + #2 + #3, Slotted: 5.5 mm, Tamper Resistant Torx: TR10 + TR15 + TR20y + TR25 + TR30	5"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**3EKC3**
24	Hex: 3/32 in + 7/64 in + ⅛ in + 9/64 in + 5/32 in + 3/16 in + 7/32 in + ¼ in + 2 mm + 2.5 mm + 3 mm + 4 mm + 5 mm + 6 mm, Phillips: #1 + #2, Slotted: 4 mm + 6 mm, Torx: T8 + T9 + T10 + T15 + T20 + T25 + T27 + T30	9"	Locking	Ergonomic	Double End	In Handle	Wiha Tools	**55EU10**
24	Hex: ⅛ in + 9/64 in + 5/32 in + 3/16 in + 3 mm + 4 mm + 5 mm + 6 mm, Phillips: #0 + #1 + #2 + #3, Pozidrive: #1 + #2, Slotted:3 mm + 4.5 mm + 5.5 mm + 6.5 mm, Square:#0 + #1 + #2 + #3, Torx:T10 + T15 + T20 + T25	9"	Locking	Ergonomic	Double End	In Handle	Wiha Tools	**55EU08**
26	Phillips: #1, Slotted: #2-3 + #6-8, Tamper Resistant Hex: 5/64 + 3/32 + 7/64 + ⅛ + 9/64 + 5/32 in, Tamper Resistant Torx T7 + T8 + T9 + T10 + T15, Tee+Cross T20 + T6 + T7, Triple-Y #1 + #2 + #3 + #4	1"	Quick Change	Ergonomic	Single End	Separate Case	Eazypower	**5UXY0**
26	Clutch ⅛ in + 5/32 in, Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #0 + #1 + #2 + #3, Slotted: ⅛ in + 5/32 in + 7/32 in + ½ in + 9/32 in, Socket 5/64 in + 3/32 in + ⅛ in + 5/32 in + 3/16 in, Torx T10 + T15 + T20 + T25 + T30 + T40	8"	Magnetic	Ergonomic	Single End	Separate Case	Proto	**1FR28**
26	Hex: ⅛ in + 9/64 in + 5/32 in + 3/16 in, Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #1 + #2, Slotted: #4 + #6, Spanner: #6 + #8 + #10 + #12, Tamper Resistant Torx: TR10 + TR15 + TR20 + TR25 + TR27 + TR30, Torx: T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	None	Megapro	**2MRT5**
28	Hex: ⅛ in + 9/64 in + 5/32 in + 3/16 in, Spanner #6 + #8 + #10 + #12, Tamper Resistant Torx: TR10 + TR15 + TR20 + TR25 + TR27 + TR30, Torx Plus: TP10 + TP15 + TP20 + TP25 + TP27 + TP30, Torx: TS4 + TS6 + TS8 + TS10, Tri-Wing TW2 + TW3 + TW4 + TW5	8½"	Quick Change	Non-Slip	Double End	None	Megapro	**2MRT6**

***Stainless Steel bit material.**

CONTINUED

CONTINUED

Multi-Bit Screwdrivers

Number of Tips	Sizes Incl.	Overall Length	Bit Retainer Type	Grip Style	Single/ Double End Bits	Bit Storage	Brand	Item No.
General Purpose Multi-Bit Screwdrivers (Cont.)								
32	Robertson Square Recess: #0 + #1 + #2 + #3, Spanner #4 + #6 + #8 + #10, Tamper Resistant Hex: 2 mm + 2.5 mm + 3 mm + 4 mm + 5 mm + 6 mm, Tamper Resistant Torx TR7 + TR8 + TR9 + TR10 + TR15 + TR20 + TR25 + TR30 + TR40, Torq-Set 6 mm + 8 mm + 10 mm + ¼ in, Tri-Wing #1 + #2 + #3	5"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**3EKC6**
32	Hex: 2 mm + 2.5 mm + 3 mm + 4 mm + 5 mm, Square: 3/32 in + 7/64 in + ⅛ in + 9/64 in + 5/32 in + 3/16 in, Torx: T7 + T8 + T10 + T15 + T20 + T25 + T27 + T30 +T40	7½"	Magnetic	Ergonomic	Single End	Separate Case	Klein Tools	**3MJA8**
33	Hex: 2 mm + 2.5 mm + 3 mm + 4 mm + 5 mm + 6 mm, Phillips: #1 + #2 + #3, Pozidriv #1 + #2 + #3, Slotted: 6.5 mm, Spanner #4 + #6 + #8 + #10, Tamper Resistant Torx TR8 + TR10 + TR15 + TR20 + TR25 + TR27 + TR30 + TR40, Torq-Set: 6 mm + 8 mm + 10 mm, Tri-Wing: #1 + #2 + #3 + #4	5"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**3EKC5**
39	Phillips: #1 + #2, Pozidrive:#0 + #1 + #2 + #3, Slotted: 6 mm + 8 mm, Spanner: #4 + #6 + #8 + #10, Square: #1 + #2 + #3, Tamper Resistant Hex:5/64 in 3/32 in 7/64 in ⅛ + 9/64 in 5/32 in, Tamper Resistant Torx:T8s + T10s + T15s + T20s + T25s + T27s + T30s + T40s, Torq-Set #6 + #8 + #10, Tri-Wing #1	10"	Magnetic	Ergonomic	Single End	Separate Case	Wiha Tools	**5LX17**
60	Eye Bolt Bit: C1 + C2 + C3, Pozidrive: PZ0 + PZ1 + PZ2, Security Hex: M5 + M6 + M8, Security Phillips: #0 + #1 + #2, Security Torq: 6 + 8 + 10, Security Torx: T5 + T6 + T7 + T8 + T10 + T15 + T20 + T25 + T27 + T30 + T40, Slotted: ⅛ in + 3/16 in, Square: S0 + S1 + S2 + S3	9½"	Magnetic	Ergonomic	Single End	Separate Case	Eclipse	**22C722**
Hand Impact Demolition Multi-Bit Screwdrivers								
4	Phillips: #2 + #4, Slotted: 5/16 in + ½ in	10½"	Quick Change	Plain	Single End	None	Klein Tools	**3MHY8**
Insulated Multi-Bit Screwdrivers								
7	Phillips: #1 + #2, Robertson Square Recess: #1, Slotted: 0.6 mm + 1 mm	6"	Magnetic	Ergonomic	Single End	Separate Case	Wera	**3EKC7**
7	Phillips: #1 + #2, Slotted: ⅛ in + 5/32 in + 7/32 in + ¼ in	9¾"	Locking	Ergonomic	Single End	In Handle	Wiha Tools	**53KF16**
7	Phillips: #1 + #2, Slotted: 3 mm + 4 mm, Terminal Xeno #1 + #2	9¾"	Locking	Ergonomic	Single End	In Handle	Wiha Tools	**53KF18**
7	Phillips: #1 + #2, Slotted: 3 mm + 4 mm, Square #1 + #2	9¾"	Locking	Ergonomic	Single End	In Handle	Wiha Tools	**53KF17**
8	Phillips: #1 + #2, Slotted: 4 mm + 6.5 mm, Torx: T15 + T20, Xeno #2	2¾"	Quick Change	Ergonomic	Single End	Separate Case	Wiha Tools	**26X284**
15	Phillips:#1 #2, Slotted: 3 mm + 4 mm + 5.5 mm + 6.5 mm, Square #1 + #2, Torx T8 + T10 + T15 + T20, Xeno Terminal:#1 #2	2¾"	Quick Change	Ergonomic	Single End	Separate Case	Wiha Tools	**26X282**
19	Hex: 3 mm + 4 mm + 5 mm, Phillips: #1 + #2, PoziDriv: #1 + #2, Slotted: 3 mm + 4 mm + 5.5 mm, Square: #1 + #2, Torx: T8 + T10 + T15 + T20	12¼"	Friction Hold	Ergonomic	Single End	In Handle	Wiha Tools	**53KH20**
Keychain Multi-Bit Screwdrivers								
4	Slotted: ⅛ in + 3/16 in + ¼ in + 5/16 in	1½"	Fixed	Plain	Double End	None	Westward	**401L14**
Offset Multi-Bit Screwdrivers								
2	Keystone Slotted: ¼ in	4½"	Fixed	Molded	—	None	Proto	**3R098**
2	Phillips: #1 + #2	4¾"	Fixed	Molded	—	None	Proto	**3R095**
2	Slotted: 5/16 in	4¾"	Fixed	Molded	—	None	Proto	**3R099**
2	Keystone Slotted: ¼ in	5"	Fixed	Plain	—	None	Ampco	**32NJ35**
2	Keystone Slotted: ½ in	7¼"	Fixed	Plain	—	None	Ampco	**32NJ37**
2	Phillips: #2, Slotted: 3/16 in	9¾"	Quick Change	Ergonomic	Single End	None	Klein Tools	**15W152**
Pocket Multi-Bit Screwdrivers								
2	Phillips: #0, Slotted: ⅛ in	6½"	Quick Change	Ergonomic	Double End	None	Klein Tools	**759Y34**
4	Phillips: #0 + #000, Slotted: 3/32 in + 1/16 in	5"	Friction Hold	Ergonomic	Double End	None	Westward	**401K75**
4	Phillips: #0 + #1, Slotted: ⅛ in + 5/32 in	5¼"	Magnetic	Ergonomic	Double End	In Handle	STANLEY	**2GXG3**
4	Phillips: #00 + #0, Slotted: 1.5 mm + 2	5¼"	Quick Change	Ergonomic	Double End	In Handle	Megapro	**35HV09**
4	Phillips: #0 + #00, Slotted: ⅛ in + 3/32 in	6½"	Quick Change	Ergonomic	Double End	None	Klein Tools	**759Y19**
Precision Multi-Bit Screw & Nut Driver Sets								
62	Hex: 0.7 mm, 0.9 mm, 1.35 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 0.05 in, 1/16 in, 5/64 in, 3/32 in, 7/64 in, ⅛ in, 9/64 in, 5/32 in, Pentablobe: PL1, PL2, PL3, PL4, PL5, PL6, Phillips: #000, #00, #0, #1, #2, Slotted: 0.8 mm, 1.2 mm, 1.5 mm, 1.8 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, Torx: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15, T20	6¾"	Magnetic	Knurled	Single End	Separate Case	Wiha Tools	**440A43**
Precision Multi-Bit Screwdrivers								
2	Phillips: #0, Slotted: ⅛ in	6"	Friction Hold	Non-Slip	Double End	None	Westward	**401L67**
4	Phillips: #0 + #00, Slotted: 3/32 in + ⅛ in	6¼"	Ball Bearing	Non-Slip	Double End	None	Westward	**401K85**
4	Phillips: #0 + #00, Slotted: ⅛ in + 3/32 in	6½"	Quick Change	Ergonomic	Double End	None	Klein Tools	**58UR40**
4	Torx: T7 + T8 + T10 + T15	6½"	Quick Change	Ergonomic	Double End	None	Klein Tools	**259G07**
19	Hex: 0.05 in, Nut Drivers 3/32 in + ⅛ in + 5/32 in, Phillips: #0000 + #000 + #00, Slotted: 1/32 in + 3/64 in + 1/16 in + 5/64 in + 3/32 in, Torx: T6 + T7 + T8 + T9	6¾"	Quick Change	Ergonomic	Single End	Separate Case	Ultratech	**1XHR2**
Ratcheting Multi-Bit Screwdrivers								
4	Phillips: #1 + #2, Slotted: 5/32 in + 3/16 in	8¾"	Magnetic	Ergonomic	Single End	In Handle	Proto	**4LV34**
6	Phillips: #1 + #2, Slotted: ⅛ in + 3/16 in + ¼ in	4½"	Magnetic	Ergonomic	Single End	In Handle	STANLEY	**5AHC5**
6	Hex: ⅜ in, Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in	7¾"	Quick Change	Ergonomic	Single End and Double End	None	Klein Tools	**15W142**
6	Spanner: #6 + #8 + #10 + #12, Tamper Resistant Hex: ⅛ in + 9/64 in, Tamper Resistant Torx: TR10 + TR15 + TR20 + TR25 + TR27 + TR30	8½"	Quick Change	Ergonomic	Double End	In Handle	Megapro	**22XT27**
7	Phillips: #1 + #2, Robertson Square Recess: #1 + #2, Slotted: 1 mm + 1.2 mm	8½"	Magnetic	Ergonomic	Single End	In Handle	Wera	**14U854**
8	Phillips: #1 + #2, Pozidriv: #1, Robertson Square Recess: #1, Slotted: ¼ in + 3/16 in, Torx: T15 + T30	10½"	Magnetic	Ergonomic	Single End	In Handle	STANLEY	**6XW12**
12	Phillips: #0 + #1 + #2 + #3, Robertson Square Recess: #1 + #2, Slotted: #4 + #6, Torx: T10 + T15 + T20 + T25	8½"	Quick Change	Non-Slip	Double End	In Handle	Megapro	**4KTF9**
17	Hex: 3/32 in + ⅛ in + 5/32 in + 3/16 in, Phillips: #1 + #2 + #3, Robertson Square Recess: #1 + #2 + #3, Slotted: 1 mm, Tamper Resistant Torx TR10 + TR15 + TR20 + TR25 + TR30	5½"	Quick Change	Ergonomic	Single End	Separate Case	Wera	**14U856**
20	Nutdriver: 7/16 in + 11/32 in + ⅜ in + 5/16 in + 9/32 in + ¼ in, Phillips: #1 + #2 + #3, Robertson Square Recess: #1, Slotted: 3/16 in + 5/32 in, Torx T6 + T8 + T10 + T15 + T20	10½"	Magnetic	Ergonomic	Single End	Separate Case	STANLEY	**38WF38**
32	Spanner: #4 + #6 + #8 + #10, Tamper Resistant Hex: 3/32 in + 7/64 in + ⅛ in + 9/64 in + 5/32 in + 3/16 in + 2 mm + 2.5 mm + 3 mm + 4 mm + 5 mm, Tamper Resistant Torx: T7H + T8H + T10H + T15H + T20H + T25H + T27H + T30H + T40H, Torq-Set: #6 + #8 + #10, Tri-Wing: #1 + #2 + #3 + #4	9"	Magnetic	Non-Slip	Single End	Separate Case	Westward	**401K73**
32	Clutch: 5/32 in + 3/16 in, Hex: ⅛ in + 7/64 in + 3/32 in + 5/64 in + 9/64 in + 5/32 in + 3/16 in, Phillips: #0 + #1 + #2 + 3 + #3, Slotted: #3-4 + E5-6 + #6-8 + #8-10 + #10-12 + #12-14, Square Recess: #1 + #2 + #3, Torx: T6 + T7 + T8 + T10 + T15 + T20 + T25	9"	Magnetic	Non-Slip	Single End	Separate Case	Westward	**401K72**
91	Clutch Bits ⅛ in + 5/32 in, Hex: 1.5 mm + 7 mm + 8 mm + 9 mm + 3/32 in + 9/64 in, Phillips: #0 + #1 + #2 + #3 + Spline Bits 4 mm + 5 mm + 6 mm, Slotted: ⅛ in + 3/16 in + ¼ in + 5/16 in + ⅜ in + ½ in, Spanner: SN 4 + SN6 + SN8 + SN10, Speed Hex: Bits 1.5 mm + 2 mm + 3 mm + 4 mm + 7/64 in + ⅛ in, Square: R0 + R1 + R2 + R3, Torq-Set: TW1 + TW2 + TW3, Torx: T8 + T10 + T15 + T20 + T25 + T27 + T30 + T45 + T50 + T55 + T60 + T65 + TP, Tri-Wing: TS4 + TS6 + TS8 + TS10	12"	Magnetic	Ergonomic	Single End	Separate Case	Proto	**425Y25**
Ratcheting Offset Multi-Bit Screwdrivers								
2	Phillips: #2, Slotted: ¼ in	4"	Fixed	Plain	Double End	None	General	**3ZH36**
5	Phillips: #1 + #2, Slotted: ¼ in + ⅜ in	4"	Quick Change	Plain	Single End	None	General	**3ZH33**
15	Hex: ⅛ in + 5/32 in, Phillips: #1 + #2, Slotted: ¼ in + 3/16 in, Sockets 7/32 in + ¼ in + 9/32 in + 5/16 in + 11/32 in + ⅜ in, Square #1 + #2, Torx T15 + T20	4"	Quick Change	Ergonomic	Single End	Separate Case	General	**6TFG1**
37	Phillips: #1 + #2, Pozidrive: #0 + #1 + #2 + #3, Slotted: 6.5 mm + 8 mm, Spanner: #4 + #6 + #8 + #10, Square: #1 + #2 + #3, Tamper Resistant Hex: 5/64 + 3/32 + 7/64 + ⅛ + 9/64 + 5/32, Tamper Resistant Torx: T8s + T10s + T15s + T20s + T25s + T27s + T30s + T40s, Torq-Set + #6 + #8 + #10, Tri-Wing #1 + #2 + #3 + #4	6½"	Locking	Ergonomic	Single End	Separate Case	Wiha Tools	**440A41**
Reversible Bit Screwdriver & Nut Drivers								
4	Nut Driver: ¼ in + 5/16 in, Phillips: #1 + #2, Slotted: 3/16 in + ¼ in	3¼"	Quick Change	Ergonomic	Double End	None	Klein Tools	**15W145**
6	Phillips: #2, Robertson Square Recess: #1 + #2, Slotted: 3/16 in	3¼"	Quick Change	Ergonomic	Single End	None	Klein Tools	**23NN71**
8	Phillips: #1 + #2 Nut Driver: ¼ in + 5/16 in, Slotted: ¼ in + 3/16 in, Square Recess: #1 + #2, Torx: T10 + T15	7¼"	Quick Change	Ergonomic	Double End	None	Klein Tools	**2RKT1**
Voltage Sensing Multi-Bit Screwdrivers								
8	Phillips: #1 + #2, Robertson Square Recess: S1 + S2, Slotted: 3/16 in + ¼ in, Torx: T10 + T15	11½"	Quick Change	Ergonomic	Double End	In Handle	Aw Sperry Instruments	**8ZKJ5**

****Stainless Steel bit material.***

401L18

Nut Driver Sets

No. of Pieces	Tip Size	Range of Lengths	Bolt Clearance	Shank Length	Grip Style	Brand	Item No.
ESD-Safe Precision Nut Driver Sets							
8	1/4",-1/8",-3/16",-3/32",-5/32",-7/32",-7/64",-9/64"	6 3/16"-To-6-3/4"	5/16"	2 7/16"	Molded	Wiha Tools	56FR51
8	1.5-mm,-2-mm,-2.5-mm,-3-mm,-3.5-mm,-4-mm,-5-mm,-5.5-mm	6 3/16"-To-6-3/4"	5/16"	2 7/16"	Molded	Wiha Tools	56FR50
Fastener-Holding Nut Driver Sets							
2	1/4",-5/16"	6 3/4"	3/16",-1/4"	3"	Ergonomic	Klein Tools	4JA37
2	1/4",-5/16"	9 3/4"	3/16",-1/4"	6"	Ergonomic	Klein Tools	4JA39
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	6 3/4"-to-7-5/16"	1/4",-3/8"	3"	Ergonomic	Klein Tools	2RKR9
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	15 3/4"	3/16",-7/32",-1/4",-5/16",-11/32"	6"	Ergonomic	Klein Tools	2DGW9
Hollow Shank Nut Driver Sets							
2	1/4",-5/16"	1 1/2"	1 1/2"	1 1/2"	Ergonomic	Westward	10J250
2	1/4",-5/16"	3 1/2"	3/16",-7/32"	1 1/2"	Ergonomic	Klein Tools	1ED91
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	6 3/4"-to-7-5/16"	3/16",-1/4",-5/16",-11/32"	3"	Ergonomic	Klein Tools	4A843
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	7 1/2"	7 1/2"	3"	Ergonomic	Westward	401L17
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	9 3/4"-to-10-5/16"	3/16",-7/32",-1/4",-5/16",-11/32"	6"	Ergonomic	Klein Tools	4JA45
7	10-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm,-9-mm	6 3/4"	5.5-mm,-6.5-mm,-7.25-mm	3"	Ergonomic	Klein Tools	2DGN2
10	10-mm,-11-mm,-12-mm,-13-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm,-9-mm	7 1/2"	7 1/2"	3"	Ergonomic	Westward	401L18
Insulated Nut Driver Sets							
5	1/2",-1/4",-3/8",-5/16",-7/32"	11 3/8"	5/16"	5"	Molded	Wiha Tools	5LW91
5	10-mm,-6-mm,-7-mm,-8-mm,-9-mm	11 3/8"	5/16"	5"	Molded	Wiha Tools	5LW90
7	1/2",-1/4",-3/16",-3/8",-5/16",-7/16",-7/32"	11 3/8"	5/16"	5"	Molded	Wiha Tools	53KG56
7	10-mm,-13-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm	11 3/8"	5/16"	5"	Molded	Wiha Tools	26X275
9	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-5/8",-7/16",-9/16"	9 3/4-to-11-3/8"	3/16",-7/32",-1/4",-5/16",-11/32",-15/32"	6"	Ergonomic	Klein Tools	1YRY7
9	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-5/8",-7/16",-9/16"	11 3/8"	5/16"	5"	Molded	Wiha Tools	26X274
11	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-5/32",-5/8",-7/16",-7/32",-9/16"	11 3/8"	5/16"	5"	Molded	Wiha Tools	26X273
Pass-Through Nut Driver Sets							
7	1/2",-1/4",-11/32",-3/8",-5/16",-7/16",-9/16"	7 1/4"-To-7-1/2"	7 1/4"	3"	Ergonomic	Milwaukee	19MU84
7	10-mm,-13-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm	7 1/4"-To-7-1/2"	7 1/4"	3"	Ergonomic	Milwaukee	19MU85
Precision Multi-Bit Screw & Nut Driver Sets							
65	#0,-#00,-#000,-#1,-0.05",-0.7-mm,-0.8-mm,-0.9-mm,-1.2-mm,-1.4-mm,-1.5-mm,-1.8-mm,-1/16",-1/8",-2-mm,-2.5-mm,-3-mm,-3.5-mm,-3/16",-3/32",-4-mm,-4.5-mm,-5-mm,-5.5-mm,-5/32",-5/64",-7/32",-7/64",-9/64",-PL1,-PL2,-PL3,-PL4,-PL5,-PL6,-T10,-T15,-T20,-T3,-T4,-T5,-T6,-T7,-T8,-T9	6 51/64"		4"	Knurled	Wiha Tools	440A42
Precision Nut Driver Sets							
7	1.5-mm,-1.8-mm,-2-mm,-2.5-mm,-3-mm,-3.5-mm,-4-mm	6 3/16"-To-6-3/4"	5/16"	2 3/8"	Molded	Wiha Tools	440A36
8	1/4",-1/8",-3/16",-5/32",-7/32",-7/64",-9/64"	6 3/16"-To-6-3/4"	5/16"	2 7/16"	Molded	Wiha Tools	2MPL1
8	2.5-mm,-3-mm,-3.5-mm,-4-mm,-4.5-mm,-5-mm,-5.5-mm,-6-mm	6 3/16"-To-6-3/4"	5/16"	2 7/16"	Molded	Wiha Tools	2MPK9
Solid Shank Nut Driver Sets							
6	1/2",-1/4",-3/16",-3/8",-5/16",-7/16"	8"	1"	4"	Ergonomic	STANLEY	38WF21
7	1/4",-11/32",-3/16",-3/8",-5/16",-7/32",-9/32"	7 1/4"	1"	4"	Molded	Proto	3R910
7	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-7/16"	7"	1"	3"	Fluted	Westward	401L15
7	10-mm,-11-mm,-5-mm,-6-mm,-7-mm,-8-mm,-9-mm	8"	25-mm	4"	Ergonomic	STANLEY	38WF22
7	10-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm,-9-mm	149-mm-to-158-mm	25-mm	2 7/8"	Molded	Proto	3R952
10	10-mm,-11-mm,-12-mm,-13-mm,-5-mm,-5.5-mm,-6-mm,-7-mm,-8-mm,-9-mm	7"	25-mm	3"	Fluted	Westward	401L16
11	1/2",-1/4",-11/32",-3/16",-3/8",-5/16",-5/8",-7/16",-7/32",-9/16",-9/32"	6 11/16"-to-7"	1"	2 7/8"	Molded	Proto	3R911
19	1/2",-1/4",-10-mm,-11-mm,-11/32",-12-mm,-13-mm,-14-mm,-3/16",-3/8",-4-mm,-5-mm,-5.5-mm,-5/16",-6-mm,-7-mm,-7/16",-8-mm,-9-mm	8 1/2"-to-9"	1"	4"	Ergonomic	Proto	483J71
Tether-Ready Nut Driver Sets							
5	1/2",-1/4",-3/8",-5/16",-7/16"	9 1/2"	1"	5"	Ergonomic	Westward	1YXN9
5	10-mm,-6-mm,-7-mm,-8-mm,-9-mm	9 1/2"	25-mm	5"	Ergonomic	Westward	1YXN8

Flexible Shank
2PA79

Hollow Shank
5LL61

Tether-Ready
1CLN1

T-Shaped Insulated
53KH05

Nut Drivers

Tip Size	Overall Length	Bolt Clearance	Shank Length	Grip Style	Fastener Holding	Brand	Item No.
Fastener-Holding Nut Drivers							
5/16"	6 1/2"	3 in	3"	Plain	Yes	Klein Tools	2DFD2
3/8"	9 1/2"	6 in	6"	Plain	Yes	Klein Tools	2DFD4
Flexible Shank Nut Drivers							
1/4",-5/16"	10 1/2"	—	6 1/2"	Plain	Yes	IDEAL	2PA79
Hollow Shank Nut Drivers							
1/4"	6 3/4"	3 in	3"	Ergonomic	No	Klein Tools	5LL61
1/4"	6 3/4"	3 in	3"	Ergonomic	Yes	Klein Tools	4JA36
1/4"	9 3/4"	6 in	6"	Ergonomic	Yes	Klein Tools	4JA40
5/16"	6 3/4"	3 in	3"	Ergonomic	No	Klein Tools	5LL65
5/16"	6 3/4"	3 in	3"	Ergonomic	Yes	Klein Tools	4JA38
5/16"	7 1/2"	3 in	3"	Ergonomic	No	Westward	401L35
5/16"	9 3/4"	6 in	6"	Ergonomic	Yes	Klein Tools	4JA42
5/16"	9 3/4"	6 in	6"	Ergonomic	No	Klein Tools	4JA32
3/8"	6 3/4"	3 in	3"	Ergonomic	No	Klein Tools	5LL64
3/8"	6 3/4"	3 in	3"	Ergonomic	Yes	Klein Tools	2RKP9
3/8"	7 1/2"	3 in	3"	Ergonomic	No	Westward	401L37
3/8"	9 3/4"	6 in	6"	Ergonomic	Yes	Klein Tools	2RKR5
7/16"	7 1/4"	3 in	3"	Ergonomic	No	Klein Tools	5LL66
7/16"	7 1/2"	3 in	3"	Ergonomic	No	Westward	401L38
1/2"	7 1/4"	3 in	3"	Ergonomic	No	Klein Tools	5LL60
1/2"	10 1/4"	6 in	6"	Ergonomic	No	Klein Tools	4JA35
9/16"	9 1/4"	4 in	4"	Ergonomic	No	Klein Tools	2DGW5

Tip Size	Overall Length	Bolt Clearance	Shank Length	Grip Style	Fastener Holding	Brand	Item No.
Insulated Nut Drivers							
5/16"	9 1/2"	1 in	5"	Ergonomic	No	Westward	1YXL1
5/16"	9 3/4"	7/32 in	6"	Ergonomic	No	Klein Tools	1YRX9
3/8"	10 3/4"	1/4 in	6"	Ergonomic	No	Klein Tools	1YRX8
7/16"	10 3/4"	9/32 in	6"	Ergonomic	No	Klein Tools	1YRY2
1/2"	11 1/4"	11/32 in	6"	Ergonomic	No	Klein Tools	1YRX5
10-mm	9 1/2"	1 in	5"	Ergonomic	No	Westward	1YXN2
Multi-Bit Nut Drivers							
1/4",-5/16"	8"	3 5/8 in	3 5/8"	Ergonomic	Yes	Klein Tools	53YE61
1/4",-5/16",-11/32",-3/8",-7/16",-1/2",-9/16"	9 1/2"	4 in	4"	Ergonomic	Yes	Klein Tools	369X63
1/4",-5/16"	10 1/4"	6 in	6"	Ergonomic	Yes	Klein Tools	259G10
Nonsparking Nut Drivers							
5/16"	6 3/4"	1 in	3 7/16"	Plain	No	Ampco	46C015
1/2"	7 1/4"	1 in	3 7/16"	Plain	No	Ampco	21XV16
10-mm	230-mm	25 mm	130-mm	Plain	No	Ampco	21XV18
Solid Shank Nut Drivers							
1/4"	7"	1 in	3"	Plain	No	Westward	401L20
5/16"	6 1/2"	1 in	2 3/4"	Plain	No	Proto	426G14
5/16"	7"	1 in	3"	Plain	No	Westward	401L21
7/16"	7"	1 in	2 3/4"	Plain	No	Proto	426G16
9/16"	7"	1 in	2 3/4"	Plain	No	Proto	426G18
5/8"	7"	1 in	2 3/4"	Plain	No	Proto	426G19
10-mm	7"	25.4 mm	3"	Plain	No	Westward	401L32
11-mm	7"	1 in	2 7/8"	Plain	No	Proto	426G05
12-mm	7"	1 in	2 7/8"	Plain	No	Proto	426G06
Tether-Ready Nut Drivers							
1/2"	11 1/4"	1 in	9 1/16"	Plain	No	Westward	30RZ14
7-mm	7 1/2"	1 in	3"	Ergonomic	No	Westward	1CLN1
7-mm	11 1/4"	1 in	9 1/16"	Plain	No	Westward	30RZ21
T-Shaped Insulated Nut Drivers							
10-mm	10 1/4"	5/16 in	230-mm	Plain	No	Wiha Tools	53KH05
13-mm	10 1/4"	5/16 in	230-mm	Plain	No	Wiha Tools	53KH06
13-mm	12"	12 in	12"	Insulated	No	Knipex	10G260

Folding Torx
3A581

L-Shaped Torx
5LM71

T-Shaped Two-Tip
11L588

Hex & Torx Key Sets

No. of Pieces	Tip Size	Range of Lengths	Finish	Container Type	Brand	Item No.
Folding Hex & Torx Key Sets						
3	0.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in, T10, T15, T20, T25, T27, T30, T40, T8	1 51/64 in to 5 3/32 in	Black Oxide	None	Eklind	**4RU39**
3	1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 5/64 in, 6 mm, 7/32 in and 1/4 in, 7/64 in, 8mm, 9/64 in, T10, T15, T20, T25, T27, T30, T40, T9	7 in	Black Oxide	None	Bondhus	**25EA88**
3	1.5 mm, 1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 9/64 in, T10, T15, T20, T25, T27, T30, T40, T8	1 51/64 in to 3 45/64 in	Black Oxide	None	Eklind	**4RB82**
Folding Hex Key Sets						
1	.050 in, 1/16 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/64 in, 9/64 in	1 51/64 in to 2 29/32 in	Black Oxide	None	Eklind	**5LM85**
1	0.05 in, 1.5 mm, 1/16 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 5/64 in, 6 mm, 7/64 in, 9/64 in	1 23/32 in to 3 5/16 in	Black Oxide	Pouch	Westward	**4YR73**
1	1/16 in, 1/8 in, 3/32 in, 3/64 in, 5/32 in, 5/64 in, 7/64 in, 9/64 in	1 13/32 in to 1 27/32 in	Black Oxide	None	Klein Tools	**2DGN8**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 3/4 in to 4 3/8 in	Black Oxide	None	Bondhus	**25EA97**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 3/4 in to 3 3/8 in	Satin	None	Klein Tools	**2DGN9**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 in to 3 45/64 in	Black Oxide	None	Eklind	**6X302**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 in to 3 to 45/64 in	Black Oxide	None	Eklind	**5LM84**
1	1/4 in, 3/16 in, 3/8 in, 5/16 in, 7/32 in	2 7/16 in to 3 1/4 in	Black Oxide	None	Proto	**3R808**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 in to 3 in	Chrome	Plastic Holder	Westward	**2CYB7**
1	1/4 in, 3/16 in, 3/8 in, 5/16 in, 7/32 in	2 21/32 in to 3 27/32 in	Satin	None	Klein Tools	**2DGN7**
1	1/4 in, 3/16 in, 3/8 in, 5/16 in, 7/32 in	3 19/64 in to 5 3/32 in	Black Oxide	None	Eklind	**6X303**
1	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	3 45/64 in to 5 3/32 in	Black Oxide	None	Eklind	**3A580**
1	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	1 51/64 in to 3 19/64 in	Black Oxide	None	Eklind	**6X304**
1	1.5 mm, 1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in, T10, T15, T20, T25, T27, T30, T40, T9	2 1/4 in to 3 1/8 in	Chrome	None	Westward	**5YUU6**
1	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	2 in to 3 in	Chrome	Plastic Holder	Westward	**2CYB8**
1	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	2 in to 4 3/32 in	Black Oxide	None	Eklind	**4CR95**
1	10 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 in to 5 3/32 in	Black Oxide	None	Eklind	**5LM74**
2	1.5 mm, 1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 9/64 in	2 in to 3 45/64 in	Black Oxide	None	Eklind	**4RU38**
Folding Torx Key Sets						
1	T10, T15, T20, T25, T27, T30, T40	2 51/64 in to 4 in	Black Oxide	None	Eklind	**3A581**
1	T10, T15, T20, T25, T27, T30, T40, T8	2 1/2 in to 4 in	Black Oxide	None	Eklind	**5LM81**
1	T10, T15, T20, T25, T27, T30, T40, T9	2 in to 3 in	Chrome	None	Westward	**5YUU7**
1	T10, T15, T20, T6, T7, T8, T9	2 51/64 in to 4 in	Black Oxide	None	Eklind	**4CR96**
L-Shaped Ball End Hex Key Sets						
7	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in	3 3/16 in to 5 1/4 in	Black Oxide	Plastic Holder	Eklind	**4RU40**
7	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	3 1/32 in to 6 37/64 in	Black Oxide	Plastic Holder	Eklind	**4CR59**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	2 27/32 in to 8 27/32 in	Chrome	Plastic Holder	Wiha Tools	**4NB46**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Black Oxide	Plastic Holder	Eklind	**1ATF7**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 in to 6 11/16 in	Black Oxide	Plastic Holder	Westward	**2CYC5**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 in to 7 3/4 in	Black Oxide	Plastic Holder	Proto	**1Q808**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Black Oxide	Plastic Holder	Eklind	**4YCP1**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Gold Plated	Plastic Holder	Eklind	**4YCP3**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Nickel Plated	Plastic Holder	Eklind	**4YCN8**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/2 in to 8 45/64 in	Nickel Plated	Plastic Holder	Eklind	**29RU72**
11	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 5 1/4 in	Black Oxide	Plastic Holder	Eklind	**4CR56**
12	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 in	Black Oxide	Plastic Holder	Eklind	**4RB73**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Black Oxide	Plastic Holder	Eklind	**4YCN9**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Gold Plated	Plastic Holder	Eklind	**4YCP2**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Nickel Plated	Plastic Holder	Eklind	**4YCN7**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	3 3/32 in to 8 1/2 in	Nickel Plated	Plastic Holder	Eklind	**29RU71**
13	0.05 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 3/4 in to 6 27/32 in	Black Oxide	Plastic Holder	Westward	**2CYC6**
13	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 5/16 in to 7 in	Black Oxide	Plastic Holder	Proto	**4R615**
13	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 8 27/32 in	Chrome	Plastic Holder	Wiha Tools	**4NB47**
13	1.3 mm, 1.5 mm, 10 mm, 12 mm, 14 mm, 17 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	2 27/32 in to 9 11/16 in	Black Oxide	Plastic Holder	Eklind	**5LM73**
16	.050 in, 1/16 in, 1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 5/8 in, 7/32 in, 7/64 in, 9/16 in, 9/64 in	2 27/32 in to 9 3/4 in	Black Oxide	Plastic Holder	Eklind	**5LM72**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 27/32 in to 6 3/4 in	Black Oxide	Plastic Holder	Eklind	**4CR58**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	3 3/32 in to 8 45/64 in	Nickel Plated	Plastic Holder	Eklind	**29RU70**
22	0.05 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 3/4 in to 6 27/32 in	Black Oxide	Plastic Holder	Westward	**2CYC7**
22	1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 27/32 in to 8 27/32 in	Chrome	Plastic Holder	Wiha Tools	**5HYN0**
L-Shaped Color-Coded Ball End Hex Key Sets						
9	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in	3 1/16 in to 8 13/16 in	Color Coded	Pouch	Wera	**483F62**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1.5 mm to 10.0 mm	Color Coded	Clip	Wera	**483F61**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	3 in	Color Coded	None	Bondhus	**453U56**
L-Shaped Color Coded Ball End Torx Key Sets						
9	T10, T15, T20, T25, T27, T30, T40, T8, T9	3 in to 5 3/8 in	Black Oxide	Plastic Holder	Wera	**483F63**
L-Shaped Double Ball End Hex Key Sets						
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/2 in to 8 45/64 in	Black Oxide	Plastic Holder	Eklind	**38TG42**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	3 3/32 in to 8 1/2 in	Black Oxide	Plastic Holder	Eklind	**38TG41**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	3 3/32 in to 8 45/64 in	Black Oxide	Plastic Holder	Eklind	**38TG43**
L-Shaped Hex Key Sets						
6	2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	5 in to 13 in	Satin	None	Beta	**420U05**
7	1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	1 23/32 in to 3 15/32 in	Black Oxide	Plastic Holder	Proto	**1FX39**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 11/16 in to 4 13/32 in	Black Oxide	Plastic Holder	Westward	**2CYB9**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 47/64 in to 4 19/64 in	Black Oxide	Plastic Holder	Eklind	**5LM68**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 23/32 in to 4 5/16 in	Black Oxide	Plastic Holder	Proto	**1FX40**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 47/64 in to 4 19/64 in	Nickel Plated	Plastic Holder	Eklind	**15X001**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 in to 6 11/16 in	Black Oxide	Plastic Holder	Westward	**2CYC2**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Black Oxide	Plastic Holder	Eklind	**5LM70**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/32 in to 6 37/64 in	Nickel Plated	Plastic Holder	Eklind	**15X002**
9	1.5 mm, 10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 5/32 in to 5 9/32 in	Satin	Plastic Holder	Klein Tools	**9JXR9**

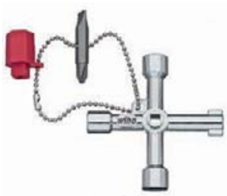
CONTINUED

Hex & Torx Key Sets

No. of Pieces	Tip Size	Range of Lengths	Finish	Container Type	Brand	Item No.
11	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 21/32 in to 4 1/4 in	Black Oxide	Plastic Holder	Eklind	**5LM61**
11	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 23/32 in to 3 1/4 in	Black Oxide	Plastic Holder	Proto	**1FX43**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	Pouch	Eklind	**4RB76**
12	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 15/16 in to 6 1/32 in	Satin	Plastic Holder	Klein Tools	**8UL53**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 21/32 in to 4 1/4 in	Black Oxide	Plastic Holder	Eklind	**5LM62**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 21/32 in to 4 1/4 in	Nickel Plated	Plastic Holder	Eklind	**15W996**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Black Oxide	Plastic Holder	Eklind	**5LM65**
13	.050 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Nickel Plated	Plastic Holder	Eklind	**15W998**
13	0.05 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 9/16 in to 4 11/32 in	Black Oxide	Plastic Holder	Westward	**2CYC1**
13	0.05 in, 1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 3/4 in to 6 27/32 in	Black Oxide	Plastic Holder	Westward	**2CYC3**
13	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	1 23/32 in to 4 1/4 in	Black Oxide	Plastic Holder	Proto	**1FX44**
13	1/16 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 6 3/4 in	Black Oxide	Plastic Holder	Proto	**1FX41**
14	.050 in, 1/16 in, 1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 8 1/4 in	Black Oxide	Metal Box	Eklind	**4RB75**
14	0.9 mm, 1.3 mm, 1.5 mm, 10 mm, 12 mm, 14 mm, 17 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	2 43/64 in to 9 11/16 in	Black Oxide	Metal Box	Eklind	**4RU22**
14	1/16 in, 1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	2 27/32 in to 8 1/4 in	Black Oxide	Metal Box	Proto	**1FX37**
15	0.7 mm, 0.9 mm, 1.30 mm, 1.5 mm, 10 mm, 12 mm, 14 mm, 17 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 7/32 in to 6 5/32 in	Black Oxide	Metal Box	Proto	**1FX36**
15	0.7 mm, 0.9 mm, 1.3 mm, 1.5 mm, 10 mm, 12 mm, 14 mm, 17 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	1 7/32 in to 6 9/64 in	Black Oxide	Metal Box	Eklind	**4RU21**
18	.028 in, .035 in, .050 in, 1/16 in, 1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 5/8 in, 7/32 in, 7/64 in, 9/16 in, 9/64 in	1 7/32 in to 6 1/4 in	Black Oxide	Metal Box	Eklind	**6VEP9**
18	1/16 in, 1/2 in, 1/32 in, 1/4 in, 1/64 in, 1/8 in, 3/16 in, 3/32 in, 3/64 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 5/8 in, 7/32 in, 7/64 in, 9/16 in, 9/64 in	1 1/4 in to 6 1/4 in	Black Oxide	Metal Box	Proto	**1FX38**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	1 21/32 in to 4 19/64 in	Black Oxide	Plastic Holder	Eklind	**5LM63**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	1 21/32 in to 4 19/64 in	Nickel Plated	Plastic Holder	Eklind	**15W997**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 27/32 in to 6 3/4 in	Black Oxide	Plastic Holder	Eklind	**5LM66**
22	.050 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 27/32 in to 6 3/4 in	Nickel Plated	Plastic Holder	Eklind	**15W999**
22	0.05 in, 1.5 mm, 1/16 in, 1/4 in, 1/8 in, 10 mm, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 8 mm, 9/64 in	2 3/4 in to 6 27/32 in	Black Oxide	Plastic Holder	Westward	**2CYC4**
L-Shaped Insulated Hex Key Sets						
7	10 mm, 12 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 23/32 in to 9 7/32 in	Chrome	Plastic Holder	Wiha Tools	**53KD96**
8	1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in	3 23/32 in to 9 7/32 in	Chrome	Plastic Holder	Wiha Tools	**8GYP3**
10	1.5 mm, 10 mm, 12 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 23/32 in to 9 7/32 in	Chrome	Plastic Holder	Wiha Tools	**26X331**
12	1/16 in, 1/2 in, 1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in	3 23/32 in to 9 7/32 in	Chrome	Plastic Holder	Wiha Tools	**26X330**
L-Shaped Tamper-Resistant Hex Key Sets						
8	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in	3 13/32 in to 6 13/16 in	Black Oxide	None	Westward	**40WZ31**
8	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in	5 1/4 in	Black Oxide	Pouch	Eklind	**5LN02**
L-Shaped Tamper-Resistant Torx Key Sets						
7	T10, T15, T20, T25, T27, T30, T40	3 3/8 in to 4 7/8 in	Black Oxide	Plastic Holder	Eklind	**3JA14**
7	T10, T15, T20, T25, T27, T30, T40	3 1/2 in to 5 5/32 in	Black Oxide	Plastic Holder	Westward	**40WY90**
14	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T6, T7, T8, T9	2 61/64 in to 6 3/4 in	Black Oxide	Pouch	Eklind	**60KU71**
L-Shaped Torx Key Sets						
7	T10, T15, T20, T25, T27, T30, T40	3 3/8 in to 4 7/8 in	Black Oxide	Plastic Holder	Eklind	**5LM71**
7	T10, T15, T20, T25, T27, T30, T40	3 3/8 in to 4 7/8 in	Chrome	Plastic Holder	Eklind	**15X004**
7	T10, T15, T20, T6, T7, T8, T9	1 1/2 in to 2 1/4 in	Black Oxide	Plastic Holder	Wiha Tools	**38VY80**
7	T10, T15, T20, T6, T7, T8, T9	2 1/2 in to 4 in	Black Oxide	Plastic Holder	Wiha Tools	**4NB56**
10	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55	2 5/16 in to 5 7/32 in	Black Oxide	Pouch	Proto	**3R791**
10	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55	2 in to 4 1/4 in	Black Oxide	Pouch	Eklind	**6VER0**
10	T10, T15, T20, T25, T27, T30, T6, T7, T8, T9	2 1/2 in to 4 in	Black Oxide	Plastic Holder	Wiha Tools	**4NB57**
14	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T6, T7, T8, T9	1 19/32 in to 4 1/4 in	Black Oxide	Pouch	Eklind	**4RB79**
T-Shaped Ball End Hex Key Sets						
8	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in	3 1/8 in to 5 11/32 in	Black Oxide	Plastic Holder	Westward	**2CYD3**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/8 in to 5 11/32 in	Black Oxide	Plastic Holder	Westward	**2CYD4**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	5 15/16 in to 8 in	Chrome	Plastic Holder	Wiha Tools	**4NB54**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	9 in	Black Oxide	None	Westward	**5YUU1**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	9 in	Black Oxide	Pouch	Eklind	**5LM96**
9	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	None	Westward	**5YUU0**
9	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Eklind	**5LM89**
10	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	5 15/16 in to 8 in	Chrome	Plastic Holder	Wiha Tools	**4NB55**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	None	Westward	**40WZ27**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Eklind	**5LM90**
T-Shaped Hex Key Sets						
5	2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	8 3/4 in	Satin	None	Beta	**36HV38**
6	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	6 in	Black Oxide	None	Proto	**3R793**
6	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	6 in	Black Oxide	Pouch	Eklind	**5LM93**
6	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm	9 in	Black Oxide	Pouch	Eklind	**5LM97**
8	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Eklind	**6X306**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	3 1/8 in to 5 11/32 in	Black Oxide	Plastic Holder	Westward	**2CYD2**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	6 in	Black Oxide	Pouch	Eklind	**5LM94**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	6 in	Nickel Plated	Plastic Holder	Wiha Tools	**4NB53**
8	10 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	9 in	Black Oxide	Pouch	Eklind	**3A582**
9	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	Pouch	Eklind	**5LM87**
9	1/4 in, 1/8 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Eklind	**5LM91**
10	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	Pouch	Eklind	**6X307**
10	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	6 in	Nickel Plated	Plastic Holder	Wiha Tools	**4NB52**
10	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Eklind	**6X308**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	None	Proto	**3R792**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	Pouch	Eklind	**5LM88**
11	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	9 in	Black Oxide	Pouch	Westward	**40WZ28**
12	1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 4 mm, 5 mm, 5/32 in, 6 mm, 7/32 in	6 in	Black Oxide	Pouch	Westward	**493L32**
17	1/4 in, 1/8 in, 2 mm, 2.5 mm, 3 mm, 3/16 in, 3/32 in, 3/8 in, 4 mm, 5 mm, 5/16 in, 5/32 in, 5/64 in, 6 mm, 7/32 in, 7/64 in, 9/64 in	6 in	Black Oxide	Foam Tray	Proto	**483J80**
T-Shaped Insulated Hex Key Sets						
5	10 mm, 4 mm, 5 mm, 6 mm, 8 mm	5 15/16 in to 6 15/16 in	Black Oxide	Plastic Holder	Wiha Tools	**29WJ64**
6	1/4 in, 3/16 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in	5 15/16 in to 6 15/16 in	Black Oxide	Plastic Holder	Wiha Tools	**1YUL8**
T-Shaped Tether-Ready Two-Tip Torx Key Sets						
7	T10, T15, T20, T25, T27, T30, T40	4 in to 6 in	Chrome	None	Wiha Tools	**4NB70**
9	T10, T15, T20, T25, T30, T40, T45	4 in to 8 in	Chrome	Plastic Holder	Wera	**56HN54**
T-Shaped Torx Key Sets						
7	T10, T15, T5, T6, T7, T8, T9	6 in	Chrome	None	Gedore	**53PG96**
8	T10, T15, T20, T25, T27, T30, T40, T8	6 in	Black Oxide	Pouch	Eklind	**5LM99**
11	T10, T15, T20, T25, T27, T30, T40, T45, T50, T6, T8	6 in	Black Oxide	Pouch	Eklind	**5LN01**
T-Shaped Two-Tip Ball End Hex Key Sets						
10	1/4 in, 1/8 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/32 in, 7/64 in, 9/64 in	5 1/2 in to 8 in	Black Oxide	Plastic Holder	Greenlee	**11L588**

L-Shaped
4CR62

T-Shaped
Tether-Ready
24AK76



Control Cabinet Key
26X277

Street Key
34A512

Water Meter Key
38HV31

Hex, Torx & Service Keys

Tip Size	Long Arm Length	Short Arm Length	Material	Finish	Brand	Item No.
L-Shaped Ball End Hex Keys						
Long						
1/16 in	3 in	9/16 in	Alloy Steel	Black Oxide	Eklind	**4CR62**
5/64 in	3 3/16 in	39/64 in	Alloy Steel	Black Oxide	Eklind	**4CR63**
3/32 in	3 3/8 in	21/32 in	Alloy Steel	Black Oxide	Eklind	**4CR64**
7/64 in	3 9/16 in	45/64 in	Alloy Steel	Black Oxide	Eklind	**4CR65**
1/8 in	3 3/4 in	3/4 in	Alloy Steel	Black Oxide	Eklind	**4CR66**
9/64 in	3 15/16 in	51/64 in	Alloy Steel	Black Oxide	Eklind	**4CR67**
5/32 in	4 1/8 in	27/32 in	Alloy Steel	Black Oxide	Eklind	**4CR68**
3/16 in	4 1/2 in	3/16 in	Alloy Steel	Black Oxide	Westward	**40WY75**
3/16 in	4 1/2 in	15/16 in	Alloy Steel	Black Oxide	Eklind	**4CR69**
7/32 in	4 7/8 in	1 1/32 in	Alloy Steel	Black Oxide	Eklind	**4CR70**
1/4 in	5 1/4 in	1 1/8 in	Alloy Steel	Black Oxide	Eklind	**4CR71**
5/16 in	6 in	1 1/4 in	Alloy Steel	Black Oxide	Eklind	**4CR72**
3/8 in	6 3/4 in	1 3/8 in	Alloy Steel	Black Oxide	Eklind	**4CR73**
7/16 in	7 1/2 in	1 1/2 in	Alloy Steel	Black Oxide	Eklind	**4CR74**
1/2 in	8 1/4 in	1 5/8 in	Alloy Steel	Black Oxide	Eklind	**4CR75**
9/16 in	9 in	1 3/4 in	Alloy Steel	Black Oxide	Eklind	**4CR76**
5/8 in	9 3/4 in	1 7/8 in	Alloy Steel	Black Oxide	Eklind	**4CR77**
3/4 in	11 1/4 in	2 1/8 in	Alloy Steel	Black Oxide	Eklind	**4CR78**
1.5 mm	3 1/32 in	17/32 in	Alloy Steel	Black Oxide	Eklind	**4CR80**
2 mm	3 3/16 in	39/64 in	Alloy Steel	Black Oxide	Eklind	**4CR81**
2.5 mm	3 31/64 in	11/16 in	Alloy Steel	Black Oxide	Eklind	**4CR82**
2 mm	3 13/64 in	2 mm	Alloy Steel	Black Oxide	Westward	**40WY88**
3 mm	3 7/8 in	3/4 in	Alloy Steel	Black Oxide	Eklind	**4CR83**
4 mm	4 3/32 in	15/16 in	Alloy Steel	Black Oxide	Eklind	**4CR84**
5 mm	4 9/16 in	1 1/16 in	Alloy Steel	Black Oxide	Eklind	**4CR85**
6 mm	5 7/16 in	1 7/32 in	Alloy Steel	Black Oxide	Eklind	**4CR86**
6 mm	5 27/64 in	6 mm	Alloy Steel	Black Oxide	Westward	**40WY98**
7 mm	6 13/64 in	1 3/8 in	Alloy Steel	Black Oxide	Eklind	**4CR87**
8 mm	6 13/64 in	1 3/8 in	Alloy Steel	Black Oxide	Eklind	**4CR88**
10 mm	6 37/64 in	1 35/64 in	Alloy Steel	Black Oxide	Eklind	**4CR90**
12 mm	8 15/64 in	1 47/64 in	Alloy Steel	Black Oxide	Eklind	**4CR91**
14 mm	9 5/32 in	2 5/32 in	Alloy Steel	Black Oxide	Eklind	**4CR92**
17 mm	9 11/16 in	2 27/64 in	Alloy Steel	Black Oxide	Eklind	**4CR93**
19 mm	10 27/32 in	2 45/64 in	Alloy Steel	Black Oxide	Eklind	**4CR94**
L-Shaped Double Ball End Hex Keys						
Long						
1/8 in	4 3/4 in	21/64 in	Alloy Steel	Black Oxide	Eklind	**38TG49**
6 mm	7 in	31/64 in	Alloy Steel	Black Oxide	Eklind	**38TG63**
10 mm	8 23/32 in	13/16 in	Alloy Steel	Black Oxide	Eklind	**38TG65**
L-Shaped Hex Keys						
Long						
5/32 in	4 1/8 in	27/32 in	Alloy Steel	Black Oxide	Eklind	**4RE54**
3/16 in	4 1/2 in	15/16 in	Alloy Steel	Black Oxide	Eklind	**4RE55**
1/4 in	5 1/4 in	1 1/8 in	Alloy Steel	Black Oxide	Eklind	**4RE57**
3/8 in	6 3/4 in	1 3/8 in	Alloy Steel	Black Oxide	Eklind	**4RE60**
5/8 in	9 3/4 in	1 7/8 in	Alloy Steel	Black Oxide	Eklind	**4RE68**
3/4 in	11 1/4 in	2 1/8 in	Alloy Steel	Black Oxide	Eklind	**4RE70**
1 in	14 1/4 in	2 5/8 in	Alloy Steel	Black Oxide	Eklind	**4RE74**
17 mm	9 11/16 in	2 27/64 in	Alloy Steel	Black Oxide	Eklind	**4RU12**
19 mm	10 27/32 in	2 45/64 in	Alloy Steel	Black Oxide	Eklind	**4RU14**
Short						
1 in	9 1/4 in	2 5/8 in	Alloy Steel	Black Oxide	Eklind	**4RE29**
L-Shaped Insulated Hex Keys						
Long						
5 mm	4 59/64 in	3 11/32 in	Alloy Steel	Insulated	Facom	**32H788**
Short						
3/8 in	9 3/16 in	1 5/8 in	Alloy Steel	Chrome	Wiha Tools	**53KD85**
12 mm	10 3/16 in	1.63 mm	Alloy Steel	Chrome	Wiha Tools	**53KD82**
L-Shaped Nonsparking Hex Keys						
SAE						
3/8 in	4 5/16 in	1 3/4 in	Beryllium Copper	Natural	Ampco	**4RNV8**
Short						
11/16 in	7 1/4 in	2 1/4 in	Beryllium Copper	Natural	Ampco	**4RNW2**
24 mm	222 mm	90 mm	Beryllium Copper	Natural	Ampco	**49UG77**
27 mm	250 mm	100 mm	Beryllium Copper	Natural	Ampco	**49UG78**
32 mm	320 mm	125 mm	Beryllium Copper	Natural	Ampco	**49UG80**
L-Shaped Tamper-Resistant Torx Keys						
Long						
T15	3 9/16 in	45/64 in	Alloy Steel	Black Oxide	Eklind	**2CYA2**
T20	3 51/64 in	3/4 in	Alloy Steel	Black Oxide	Eklind	**2CYA3**
T25	3 15/16 in	51/64 in	Alloy Steel	Black Oxide	Eklind	**2CYA4**
T8	3 5/32 in	39/64 in	Alloy Steel	Black Oxide	Eklind	**2CXZ8**
L-Shaped Torx Keys						
Long						
T10	3 3/8 in	21/32 in	Alloy Steel	Black Oxide	Eklind	**4RU28**
T20	3 51/64 in	3/4 in	Alloy Steel	Chrome	Eklind	**15X073**
T25	3 15/16 in	51/64 in	Alloy Steel	Black Oxide	Eklind	**4RU31**
T30	4 1/2 in	15/16 in	Alloy Steel	Black Oxide	Eklind	**4RU33**
Short						
T40	3 in	1 1/32 in	Alloy Steel	Chrome	Eklind	**15X067**
T-Shaped Ball End Hex Keys						
Long						
5/32 in	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**4RB87**
3/16 in	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**4RB88**
1/4 in	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**4RB90**
3 mm	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**4RB94**
4 mm	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**4RB95**
5 mm	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**4RB96**
6 mm	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**4RB97**
T-Shaped Hex Keys						
Long						
5/64 in	5 3/8 in	1 in	Alloy Steel	Black Oxide	Proto	**1FX80**
3/32 in	4 7/8 in	27/32 in	Alloy Steel	Black Oxide	Proto	**1FX79**
1/8 in	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**3A585**
5/32 in	6 in	4 in	Alloy Steel	Black Oxide	Proto	**1FX75**
5/32 in	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**3A587**
3/16 in	6 in	3 in	Alloy Steel	Black Oxide	Proto	**1FX74**
3/16 in	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**3A588**
1/4 in	6 in	3 in	Alloy Steel	Black Oxide	Proto	**1FX72**
1/4 in	9 in	4 in	Alloy Steel	Black Oxide	Eklind	**3A590**
5/16 in	6 in	3 in	Alloy Steel	Black Oxide	Proto	**1FX71**
3 mm	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**4CT02**
4 mm	9 in	3 in	Alloy Steel	Black Oxide	Eklind	**4CT03**
6 mm	6 in	4 in	Alloy Steel	Black Oxide	Proto	**1FX64**
T-Shaped Insulated Hex Keys						
Long						
5/32 in	5 57/64 in	5 57/64 in	Alloy Steel	Black Oxide	Wiha Tools	**1YUL9**
3/16 in	5 57/64 in	5 57/64 in	Alloy Steel	Black Oxide	Wiha Tools	**1YUN1**
Short						
4 mm	150 mm	150 mm	Alloy Steel	Black Oxide	Wiha Tools	**1YUN7**
5 mm	150 mm	150 mm	Alloy Steel	Black Oxide	Wiha Tools	**1YUN8**
8 mm	150 mm	150 mm	Alloy Steel	Black Oxide	Wiha Tools	**1YUP1**
T-Shaped Nonsparking Hex Keys						
Short						
3/32 in	6 in	4 1/2 in	Beryllium Copper	Natural	Ampco	**46C086**
3/16 in	6 in	4 1/2 in	Beryllium Copper	Natural	Ampco	**46C089**
5/16 in	6 in	4 1/2 in	Beryllium Copper	Natural	Ampco	**46C092**
T-Shaped Tether-Ready Hex Keys						
Long						
5/32 in	5 3/8 in	1 in	Alloy Steel	Black Oxide	Proto	**24AK76**
3/16 in	6 1/16 in	1 1/16 in	Alloy Steel	Black Oxide	Proto	**24AK77**
7/32 in	4 1/4 in	1 5/16 in	Alloy Steel	Black Oxide	Proto	**24AK78**
T-Shaped Tether-Ready Two-Tip Ball End Hex Keys						
Long						
3 mm	5 63/64 in	3 47/64 in	Alloy Steel	Chrome	Gedore	**53PG70**
4 mm	5 63/64 in	3 47/64 in	Alloy Steel	Chrome	Gedore	**53PG71**
6 mm	7 13/32 in	5 1/8 in	Alloy Steel	Chrome	Gedore	**53PG73**
10 mm	9 3/8 in	5 5/16 in	Alloy Steel	Chrome	Gedore	**53PG76**
T-Shaped Tether-Ready Two-Tip Ball End Torx Keys						
Long						
T15	4 59/64 in	—	Alloy Steel	Chrome	Gedore	**53PG98**
T20	4 59/64 in	—	Alloy Steel	Chrome	Gedore	**53PG99**
T40	6 57/64 in	—	Alloy Steel	Chrome	Gedore	**53PH04**
T-Shaped Tether-Ready Two-Tip Hex Keys						
Short						
5/32 in	4 in	49/64 in	Alloy Steel	Satin	Klein Tools	**6PPC6**
T-Shaped Torx Keys						
Long						
T10	3 59/64 in	—	Alloy Steel	Chrome	Wiha Tools	**38VZ08**
T15	7 55/64 in	—	Alloy Steel	Chrome	Wiha Tools	**38VZ09**
T20	7 55/64 in	—	Alloy Steel	Chrome	Wiha Tools	**38VZ10**
T40	6 57/64 in	—	Alloy Steel	Chrome	Gedore	**53PG91**
T-Shaped Two-Tip Ball End Hex Keys						
Short						
1/8 in	4 5/64 in	1 11/16 in	Alloy Steel	Black Oxide	Greenlee	**11L591**
5/32 in	4 25/64 in	2 1/32 in	Alloy Steel	Black Oxide	Greenlee	**11L593**
3/16 in	4 23/32 in	2 1/32 in	Alloy Steel	Black Oxide	Greenlee	**11L594**
5/16 in	5 15/32 in	2 15/32 in	Alloy Steel	Black Oxide	Greenlee	**11L597**
T-Shaped Two-Tip Hex Keys						
Long						
3/32 in	4 1/2 in	1 1/2 in	Stainless Steel	Natural	Beta	**45MX83**
1/8 in	5 in	2 in	Stainless Steel	Natural	Beta	**45MX85**
5/32 in	5 1/2 in	2 1/2 in	Stainless Steel	Natural	Beta	**45MX87**
3/16 in	5 1/2 in	2 1/2 in	Stainless Steel	Natural	Beta	**45MX88**
5/16 in	7 in	3 5/16 in	Stainless Steel	Natural	Beta	**45MX91**
5 mm	7 3/4 in	3 5/16 in	Stainless Steel	Satin	Beta	**36HV36**
T-Shaped Two-Tip Tamper-Resistant Hex Keys						
Long						
5/16 in	4 1/2 in	3 1/2 in	Alloy Steel	Black Oxide	Jonard Tools	**34RP83**
Control Cabinet Keys						
#2, 4.5 mm	—	—	Zinc	Chrome	Wiha Tools	**26X277**
3/64 in, #2	—	—	Zinc	Zinc Plated	Knipex	**3JXJ7**
Street Keys						
15/16 in, 7/32 in	—	—	Alloy Steel	Powder Coated	—	**34A512**
Water Meter Keys						
1/2 in	—	—	Iron	Satin	Reed	**38HV31**
2 in	—	—	Alloy Steel	Black Oxide	Wheeler-Rex	**38L058**

Utility Knives

- For replacement blades, see page 807

Cut paper, cardboard, leather, drywall, plastic sheeting, and other materials.

FOLDING BLADE

Blades fold away for safe storage.

Tape Splitter
9RPL6

Spring-Loaded Blade Guard
4MUX6

Retracting with Blade Guide
4MUY2

Retracting
55EK43

Manually Opening
1YJD6

Manually Opening Multi-Tool
2DZJ5

Manually Opening Folding
5R669

Flooring Knife
19G960

Fixed-Blade
4A804

Circular Pocket Size Retracting
34F821

Automatic Retracting
4MUX5

Assisted-Opening
19T226

Assited-Opening
21XZ33

Overall Length	Blade Tip	Blade Material	Grip Type	Handle Material	Handle Color	No. of Blades Incl.	Repl. Blade	Brand	Mfr. Model	Item No.
Tape Splitters										
Non-Changeable Blade Change Method										
6 in	—	Steel	Textured	Plastic	Yellow	1	—	Pacific Handy Cutter, Inc	T-1	**9RPL6** *
Spring-Loaded Blade Guard Utility Knives										
Non-Changeable Blade Change Method										
5½ in	Blunt	Stainless Steel	Plain	Plastic	Blue	1	—	Pacific Handy Cutter, Inc	RSC-432	**4MUX6** *
Retracting Utility Knives with Blade Guide										
Quick-Change Blade Change Method										
6 in	Blunt	Steel	Plain	Plastic	Green	1	4MUY4	Pacific Handy Cutter, Inc	S5R	**4MUY2** *
6 in	Blunt	Steel	Plain	Plastic	Red	1	4MUY4	Pacific Handy Cutter, Inc	S4L	**4MUX7** *
Retracting Utility Knives										
Quick-Change Blade Change Method										
½ in	Rounded	Ceramic	Textured	Metal	Gray	1	43Y399	Slice	10490	**55EK43**
6 in	Standard	Steel	—	Aluminum	Silver	3	—	Westward	—	**19G963** *
6½ in	Standard	Steel	Rubberized	Metal	Black, Gray	3	5C949	STANLEY	10-788	**5TG43** *
6½ in	Standard	Steel	Rubberized	Metal, Rubber	Black, Yellow	5	3FRC7	STANLEY	10-778	**5AHC4**
6½ in	Standard	Steel	Rubberized	Plastic	Black, Blue	5	—	Westward	—	**31XN02**
6½ in	Standard	Steel	Rubberized	Plastic	Black, Yellow	1	5LC51	Olfa	UTC-1	**6ZTJ6**
7 in	Hook	Steel	Rubberized	Metal, Rubber	Black, Gray	4	5C949	STANLEY	10-789	**45JW97** *
7 in	Standard	Steel	Plain	Aluminum	Yellow	3	5C949	STANLEY	10-989	**5R685**
7 in	Standard	Steel	Rubberized	Metal	Black	10	—	Ability One	5110-01-621-7915	**52HT68**
Tools Needed Blade Change Method										
6 in	Standard	Stainless Steel	Textured	Metal	Green	1	30HJ93	Pacific Handy Cutter, Inc	RSG-383	**8NN12**
6 in	Standard	Steel	Plain	Metal	Gray	3	5C949	STANLEY	10-099	**4A803** *
6 in	Standard	Steel	Plain	Metal	Orange	4	—	Westward	—	**5MW90** *
6 in	Standard	Steel	Plain	Plastic	Gray	1	5C949	STANLEY	10-175	**5R675** *
6 in	Standard	Steel	Plain	Zinc Alloy	Silver	3	—	Westward	—	**1YJC8** *
6 in	Standard	Steel	Rubberized	Metal, Rubber	Black, Yellow	3	5C949	STANLEY	10-779	**4HJ24** *
6 in	Standard	Steel	Textured	Metal	Gray	3	5C949	STANLEY	10-079	**5C945** *
6 in	Standard	Steel	Textured	Metal	Green	3	5C949	STANLEY	10-179	**3Q020** *
6 in	Standard	Steel	Textured	Plastic	Assorted	1	30HJ93	Pacific Handy Cutter, Inc	RPK340	**31AD27** *
6½ in	Standard	Steel	Plain	Metal	Gray	3	5C949	STANLEY	10-499	**5C944** *
Manually Opening Utility Knives										
Quick-Change Blade Change Method										
6 in	—	Steel	—	Metal	Blue	1	—	Westward	—	**1YJD6**
6 in	—	Steel	—	Metal	Wood	1	—	Westward	—	**1YJD8**
Manually Opening Multi-Tool Utility Knives										
Quick-Change Blade Change Method										
6 in	—	Steel	Rubberized	Rubber	Black; White	1	—	LENOX	10771	**2DZJ5**
Manually-Opening Folding Knives										
6¾ in	—	Stainless Steel	Textured	Plastic	Gray	1	—	STANLEY	10-049	**5R669**
Flooring Knives										
Non-Changeable Blade Change Method										
8¼ in	—	Stainless Steel	—	Wood	Natural Wood	1	—	Westward	—	**19G960**
Swivel Open Blade Change Method										
6½ in	—	Steel	—	Aluminum	Gray	3	5R699	STANLEY	10-525	**5C946**
Tools Needed Blade Change Method										
5¾ in	Hook	Steel	Textured	Plastic	Yellow	3	6ZTJ8	Olfa	PC-L	**6ZTJ7** *
Fixed-Blade Utility Knives										
Quick-Change Blade Change Method										
5½ in	Standard	Steel	—	Aluminum	Silver	3	—	Westward	—	**19G962** *
6 in	Standard	Steel	Plain	Metal	Gray	3	5C949	STANLEY	10-399	**5C948**
Tools Needed Blade Change Method										
5½ in	Standard	Steel	Textured	Metal	Gray	3	5C949	STANLEY	10-209	**4A804** *
6½ in	Standard	Steel	Rubberized	Metal	Black, Yellow	3	3FRC7	STANLEY	10-780	**21Y981**
Circular Pocket-Size Retracting Utility Knives										
Non-Changeable Blade Change Method										
2 in	Standard	Stainless Steel	—	Plastic	Yellow	1	—	Olfa	TK-4Y	**34F821** *
Automatic Retracting Utility Knives										
Quick-Change Blade Change Method										
6 in	Standard	Steel	Rubberized	Plastic	Black, Blue	4	—	Westward	—	**22XP79**
7 in	Blunt	Steel	Rubberized	Metal	High-Visibility Orange	1	30HJ93	Pacific Handy Cutter, Inc	QBS20	**4MUX5** *
Assisted-Opening Utility Knives										
Quick-Change Blade Change Method										
6 in	—	Stainless Steel	Textured	Metal	Yellow; Black	1	410D16	DeWalt	DWHT10035L	**19T226**
6 in	—	Steel	Plain	Metal	Gray; Black	1	5C949	STANLEY	10-855	**45JW98**
6½ in	—	Steel	Plain	Metal	Yellow; Black	1	5C949	STANLEY	FMHT10827	**45J348**
6½ in	—	Steel	Textured	Plastic	Gray; Black	1	5c949	STANLEY	STHT10169	**45J349**
Assisted-Opening Multi-Tool Utility Knives										
Quick-Change Blade Change Method										
6 in	—	Bi-Metal	Plain	Metal	Blue	1	4JA82	IRWIN	2089100	**3KJD6**
6 in	—	Bi-Metal	Plain	Metal	Blue; Gray	1	4JA82	IRWIN	1858318	**21XZ33**

** Tether Ready*

Utility Knife Replacement Blades

- For a complete listing of knives that fit each blade, go to Grainger.com

Sharp Blade Point Type 5C953

Hook Blade Point Type 6ZTJ8

Blunt Blade Point Type 5C952

Blade Point, Edge	Mount Type	Material	Includes Blade Dispenser	Brand	Mfr. Model	Item No.	Pkg. Qty.
Utility Blade							
	(1) Hole	Stainless Steel	No	STANLEY	11-041	**5R688**	1
Sharp, Straight	(1) Hole	Carbon Steel	No	Olfa	SKB-7/10B	**2FTY6**	10
	(1) Hole	Carbon Steel	No	Olfa	SKB-8/10B	**2FTY5**	10
	(1) Hole	Carbon Steel	No	Olfa	A-SOL/10B	**34F822**	10
	(1) Hole	Carbon Steel	No	Olfa	L-SOL-10B	**1MPP6**	10
	(1) Hole	Carbon Steel	No	Westward	—	**2ZRN8**	10
	(1) Hole	Carbon Steel	No	Olfa	SKB-10/10B	**6ZTL3**	10
	(1) Hole	Carbon Steel	No	Olfa	SKB-2/50B	**5LC52**	50
	(1) Slot, (3) Notches	Carbon Steel	Yes	Olo	OLO-100/B	**1MPR1**	100
	(2) Notches	Carbide Steel	Yes	DeWalt	DWHT11131L	**31CN84**	1
	(2) Notches	Bi-Metal	No	IRWIN	2084100	**4JA80**	5
	(2) Notches	Carbon Steel	No	STANLEY	11-921	**5C949**	5
	(2) Notches	Carbon Steel	No	STANLEY	11-700	**3FRC7**	5
	(2) Notches	Carbon Steel	No	STANLEY	11-700T	**3FRC8**	10
	(2) Notches	Carbide Steel	No	STANLEY	11-800T	**21Y988**	10
	(2) Notches	Carbon Steel	Yes	STANLEY	11-921T	**1HH66**	10
	(2) Notches	Bi-Metal	Yes	IRWIN	2084200	**3KJA5**	20
	(2) Notches	Carbon Steel	Yes	STANLEY	11-937L	**45JW99**	50
	(2) Notches	Bi-Metal	Yes	IRWIN	2084300	**4JA81**	50
	(2) Notches	Carbon Steel	Yes	STANLEY	11-700L	**3FRC9**	50
	(2) Notches	Carbide Steel	Yes	STANLEY	11-800L	**21Y990**	50
	(2) Notches	Carbon Steel	No	DeWalt	DWHT11004	**21Y987**	75
	(2) Notches	Carbon Steel	Yes	PHC	QBD324	**30HJ93**	75
	(2) Notches	Carbon Steel	Yes	PHC	QBD379	**30HJ95**	75
	(2) Notches	Carbon Steel	No	STANLEY	11-931A	**5C951**	100
	(2) Notches	Carbon Steel	Yes	STANLEY	11-700A	**3FRD1**	100
	(2) Notches	Bi-Metal	Yes	IRWIN	2084400	**4JA82**	100
	(2) Notches	Carbon Steel	Yes	STANLEY	11-911A	**5R704**	100
	(2) Notches	Carbon Steel	Yes	STANLEY	11-921A	**4A805**	100
	(2) Notches	Carbon Steel	Yes	Westward	—	**2ZRH8**	100
	(2) Notches	Bi-Metal	Yes	LENOX	20352-GOLD100D	**3KJC8**	100
	(2) Notches	Carbon Steel	No	STANLEY	11-921B	**5C950**	400
	(4) Notches	Bi-Metal	Yes	LENOX	20350-GOLD5C	**3KJC7**	5
Sharp, Sheepfoot	(1) Hole	Stainless Steel	No	STANLEY	11-040	**5R687**	1
Sharp, Hook	(1) Hole	Carbon Steel	No	Olfa	HOB-2/5	**6ZTJ4**	5
	(1) Hole, (2) Notches	Carbon Steel	Yes	Westward	—	**2ZRJ4**	100
	(2) Notches	Carbon Steel	No	STANLEY	11-961	**5C953**	5
	(2) Notches	Carbon Steel	No	STANLEY	11-983	**3Q025**	5
	(2) Notches	Carbon Steel	Yes	STANLEY	11-983L	**21Y994**	50
	(2) Notches	Carbon Steel	Yes	STANLEY	11-939A	**1XDK7**	70
	(2) Notches	Carbon Steel	No	PHC	HB-96	**45PV78**	100
	(2) Notches	Carbon Steel	No	STANLEY	11-984	**5R709**	100
	(2) Notches	Carbon Steel	Yes	STANLEY	11-961A	**5R707**	100
Sharp, Curved	(2) Notches	Carbon Steel	No	Westward	—	**2ZRK3**	1
Unbreakable Utility Blade							
Sharp, Straight	(2) Notches	Carbon Steel	Yes	Westward	—	**2ZRK4**	5
Unbreakable Safety Blade							
Round, Straight	(2) Notches	Carbon Steel	No	Westward	—	**2ZRK7**	5

Blade Point, Edge	Mount Type	Material	Includes Blade Dispenser	Brand	Mfr. Model	Item No.	Pkg. Qty.
Scoring Blade							
Hook, Straight	(1) Hole	Carbide Steel	No	Olfa	PB-800	**6ZTJ8**	3
Safety Point Blade Dispenser							
Blunt, Straight	(1) Notch	Carbon Steel	Yes	PHC	SPD-017	**4MUY5**	100
Safety Blade							
Round, Straight	(1) Hole	Carbon Steel	No	Westward	—	**2ZRN6**	10
	(1) Hole	Carbon Steel	No	Olfa	RSKB-2/50B	**5AV43**	50
	(1) Hole	Carbon Steel	No	Westward	—	**2ZRN7**	50
	(1) Notch	Ceramic	No	Slice	10524	**43Y399**	2
	(1) Notch	Ceramic	Yes	Slice	10404	**6XVR2**	4
	(2) Notches	Carbon Steel	No	STANLEY	11-987	**5R710**	5
	(2) Notches	Bi-Metal	Yes	IRWIN	2088300	**2WA18**	50
	(2) Notches	Carbon Steel	Yes	STANLEY	11-988	**5R711**	100
Blunt, Straight	(1) Notch, (2) L-Shaped Slots	Carbon Steel	No	PHC	SP-017	**4MUY4**	100
Razor Blade							
Sharp, Straight	(2) Holding Slots	Carbon Steel	No	PHC	INJ-010	**4MUW7**	100
	(2) Notches, Screw	Stainless Steel	Yes	Olfa	GSB-1S	**53UE15**	30
	Holding Slot, Push Button	Carbon Steel	Yes	Olfa	BS08-6B	**53UE17**	6
	Slides On	Carbon Steel	No	PHC	RB009	**26X080**	100
Blunt, Straight	Slides On	Carbon Steel	No	STANLEY	11-515	**4A807**	100
Cutter Head with Blade							
Safety Tip, Straight	Snap On	Stainless Steel		PHC	S5FC	**4MUX9**	3
Safety Tip, Hook	Push Button	Carbon Steel	No	Klever	KCJ-XH-4	**31VF52**	25
Craft Blade							
—	Manual	Ceramic	No	Slice	10518	**43Y398**	4
Carpet Knife Blade							
Blunt, Straight	(1) Holding Slot	Carbon Steel	No	STANLEY	11-530	**5C952**	100

Snap-Off Blades

5LC37

Description	No. of Segments	Brand	Mfr. Model	Item No.	Pkg. Qty.
9mm					
30° Acute Angle w/Dispenser	7	Olfa	A1160B	**5LC50**	10
59° Extra Sharp, Carbon Steel	13	Olfa	ABB-50B	**3KJE1**	50
9 mm					
(1) Hole Mount Type	13	Olfa	ABB-10B	**3KJD9**	10
Blades Only	13	STANLEY	11-300	**5R693**	3
Carbon Steel w/Dispenser	13	Olfa	AB-10B	**5LC38**	10
Heavy-Duty	13	Westward	—	**2ZRJ7**	3
Stainless Steel w/Dispenser	13	Olfa	AB-10S	**5AY20**	10
Stainless Steel w/Dispenser	13	Olfa	AB-50S	**5AY21**	50
18 mm					
(1) Hole Mount Type	8	Olfa	LBB-10B	**8RP80**	10
(1) Hole Mount Type	8	STANLEY	11-301L	**1UK37**	50
Heavy-Duty w/Dispenser	8	Olfa	LB-10B	**5LC37**	10
Heavy-Duty w/Dispenser	8	Olfa	LB-50B	**5LC40**	50
Large, SK5 Stainless Steel	8	Westward	—	**2ZRL8**	50
Single Hole Mount Type	8	Olfa	LFB-10B	**53UE10**	10
Single Hole Mount Type	8	Olfa	LB/CP100	**53UE07**	100
Single Hole Mount Type, Ultra Sharp	8	Olfa	LBB/CP100	**53UE08**	100
SK5 Stainless Steel	8	Westward	—	**2ZRL7**	10
Snap-Off Blade	6	Olfa	CTB-5	**446G61**	1
Snap-Off Blade	8	STANLEY	11-718	**21Z010**	5
Snap-Off Blade	8	STANLEY	11-718T	**21Z006**	10
Snap-Off Hook Blade	4	Olfa	LH-20B	**5LC42**	5
UltraSharp Heavy-Duty w/Dispenser	8	Olfa	LBB-50B	**5LC48**	50
25 mm					
(1) Hole Mount Type	7	STANLEY	11-725L	**21Z005**	20
Carbon Steel, Ultra Sharp	7	Olfa	HBB-20B	**6ZTK3**	20
Extra Heavy-Duty	7	Olfa	HB-5B	**5LC36**	5
Extra Heavy-Duty	7	Olfa	HB-20B	**5LC47**	20
Single Hole Mount Type	4	Olfa	HH-12B	**53UE12**	3
Single Hole Mount Type	7	Olfa	HBB-5B	**53UE09**	5
Single Hole Mount Type	7	Olfa	HB/CP40	**53UE05**	40
Single Hole Mount Type, Ultra Sharp	7	Olfa	HBB/CP40	**53UE06**	40

Blade Disposal Containers

Description	Includes	Brand	Mfr. Model	Item No.
Press Release Operation Ensures Blade Slot Is Exposed Only When In Use, Reusable, Loop Hole And Peg Hole For Hanging, Holds Approx. 30 Blades	—	Olfa	DC-4	**3KJC9**
Sliding Door Securely Covers Blade Slot to Prevent Used Blades From Falling Out, Holds (50) Blades or (650) Blade Segments	—	Olfa	DC-3	**5AV41**
Holds Approximately (750) Blades	(2) Zip-Ties	Pacific Handy Cutter, Inc	BB00205	**30HJ94**
Approximately (750) Blades	(2) Screws, (2) Zip Ties, Mounting Bracket	Pacific Handy Cutter, Inc	BH00206	**30HJ96**
High Impact, Puncture Resistant Container	—	STANLEY	11-080	**1C085**

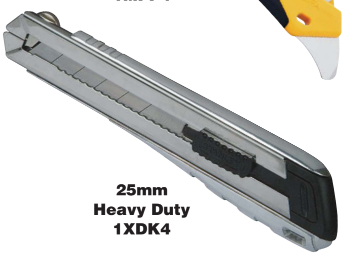
1C085

Scan. Order. Done.
Details on page A1.

9mm Standard Duty 5AV40

18mm Standard Duty 1CNZ1

18mm Heavy Duty 1MPP4



25mm Heavy Duty 1XDK4

25mm Extra Heavy Duty 5LC35

OLFA STANLEY WESTWARD

Snap-Off Knives

- Carbon steel

Time-saving knives provide a new cutting edge with a single snap.

Blade Width	No. of Segments	No. of Blades Incl.	Stores	Handle Color	Handle Material	Overall Length	Brand	Mfr. Model	Item No.
Light Duty									
Slide									
9 mm	13	1	None	Black	Metal	5 ½ in	Olfa	180	**5LC33**
18 mm	8	1	None	Black	Plastic	6 in	STANLEY	10-143P	**1UK26**
18 mm	8	1	None	Black	Plastic	6 ½ in	STANLEY	10-151	**3Q018**
Snap End Cap									
9 mm	12	1	(1) Blade	Black, Blue	Plastic	5 in	Westward	—	**1CNZ2**
9 mm	13	1	None	Black, Silver	Metal	5 in	Westward	402L09	**402L09**
18 mm	8	1	None	Black, Blue	Plastic	6 ½ in	Westward	402L10	**402L10**
Standard Duty									
Automatic									
9 mm	13	2	(5) Blades	Yellow	Plastic	5 ½ in	Olfa	PA-2	**5AV40**
Cartridge									
18 mm	8	1	(6) Blades	Black	Multi-Component	7 in	STANLEY	10-481	**21Y998**
Push Button									
18 mm	8	1	None	Black	Metal	6 ½ in	STANLEY	DWHT10038	**21Y996**
Slide									
9 mm	13	1	None	Silver	Stainless Steel	5 ½ in	Olfa	SVR-1	**5LC41**
9 mm	13	1	None	Black	Plastic	5 in	STANLEY	10-150	**6D016**
9 mm	13	1	None	Gray	Plastic	5 ½ in	Olfa	NA-1	**48TP92**
Snap End Cap									
18 mm	7	1	(1) Blade	Black, Blue	Plastic	6 in	Westward	—	**1CNZ1**
Thumb Blade Knob									
9 mm	13	1	None	Yellow	Plastic	5 in	Olfa	300	**6ZTJ5**
18 mm	8	1	None	Yellow	Plastic	7 in	Olfa	OL	**6ZTL1**
18 mm	8	1	None	Yellow	Plastic	6 in	Olfa	L-1	**34F812**
Tool Free									
9 mm	13	1	(26) Blades	Black, Yellow	Plastic	5 ½ in	Olfa	DA-1	**34F814**
Heavy Duty									
Automatic									
18 mm	8	3	(6) Blades	Yellow	Plastic	6 in	Olfa	PL-1	**6ZTL0**
Push Button									
25 mm	7	1	None	Black	Metal	6 in	STANLEY	DWHT10045	**21Y995**
25 mm	7	4	(4) Blades	Black	Multi-Component	8 ½ in	STANLEY	10-486	**21Z004**
Slide									
18 mm	8	1	None	Black, Yellow	Plastic	6 ½ in	Olfa	LA-X	**1MPP4**
18 mm	8	1	None	Yellow	Plastic	6 in	Olfa	CL	**5LC43**
18 mm	8	2	None	Yellow	Plastic	7 in	STANLEY	10-280	**5HK78**
Thumb Blade Knob									
18 mm	8	1	None	Yellow	Plastic	11 in	Olfa	XL-2	**6ZTK8**
25 mm	7	4	(4) Blades	Silver	Metal	8 in	STANLEY	10-817	**1XDK4**
25 mm	7	1	None	Black	Plastic	7 in	STANLEY	10-425	**4FE34**
Tool Free									
18 mm	8	1	None	Black, Yellow	Plastic	6 ½ in	Olfa	L-5	**53UE13**
18 mm	8	1	None	Gray	Plastic	6 ½ in	Olfa	NOL-1/BB	**53UE18**
18 mm	8	1	(16) Blades	Black, Yellow	Plastic	6 in	Olfa	DL-1	**6ZTK6**
Extra Heavy Duty									
Slide									
25 mm	7	1	None	Black, Yellow	Plastic	7 ½ in	Olfa	XH-1	**1MPP3**
25 mm	7	1	None	Yellow	Plastic	7 in	Olfa	H-1	**5LC35**
25 mm	7	1	None	Gray	Plastic	7 in	Olfa	NH-1	**48TP93**

423K18

423K17

6ZTK7

slice OLFA GENERAL

Precision Knives

Description	Handle Dia.	Handle Length	Overall Length	Brand	Item No.
Knives with Integrated Cap					
Textured Grip	13/32 in	5 ¾ in	6 ½ in	Slice	**423K18**
Knives					
Ring Style with Comfort Grip	1 39/64 in	3 ½ in	4 ½ in	Slice	**423K17**
Textured Grip	13/32 in	5 ¾ in	6 ½ in	Slice	**423K09**
Flat	5/16 in	4 ¾ in	5 ½ in	Slice	**423K16**
Snap-Off Art Knife	7/16 in	5 ½ in	5 ½ in	Olfa	**6ZTK7**
Replacement Blades					
Precision Art Blade, 100 PK	—	—	1 ⅝ in	Olfa	**34F817**
Rounded Fine Angle Cut Blade	—	—	—	General	**3ZH11**
Penetrating Cut Blade	—	—	—	General	**3ZH13**

4MUW5

22VA97

12F752

33TC02

4MUY3

4MUW4

25D165

20F891

436L67

2WA17

29UJ68

PHC WESTWARD STANLEY klever OLFA OLO martor USA IRWIN

Safety Knives and Cutters

Blade Type	Blade Change	Overall Length	Blade Material	▶CHOOSE: Handle Color	No. of Blades Incl.	Brand	Item No.
Box Cutters							
Manual Retracting							
Single Edge Razor	Slide	4 ½ in	Steel	Assorted	1	PHC	**4MUW5**
Single Edge Razor	Slide	4 ½ in	Steel	Silver	1	PHC	**4MUW6**
Disposable Film Cutters							
Fixed Blade							
Disposable	Non-Changeable	6 ½ in	Stainless Steel	Red	1	PHC	**22VA98**
Disposable	Non-Changeable	6 ½ in	Stainless Steel	White	1	PHC	**22VA97**
Folding Safety Cutters							
Retractable							
2-Sided Utility	Push Button	6 ½ in	Steel	Blue	1	Westward	**12F752**
Folding Safety Knives							
Self-Retracting							
Rounded Safety Blade	Push Button	6 ½ in	Steel	Red	1	STANLEY	**33TC02**
Hook-Style Film and Foam Cutters							
Fixed Blade							
Injector	Quick-Change	8 ½ in	Steel	Yellow	3	PHC	**4MUY3**
Hook-Style Film Cutters							
Fixed Blade							
Straight	Non-Changeable	6 ½ in	Steel	Yellow	1	PHC	**4MUW4**
Hook-Style Safety Cutters							
Fixed Blade							
Cartridge	Push Button	7 in	Steel	Yellow	1	Klever	**25D165**
Cartridge	Push Button	7 in	Steel	Red	1	Klever	**25D166**
Cartridge	Push Button	7 in	Steel	Orange	1	Klever	**25D167**
Safety Recessed	Slide	6 ¼ in	Steel	Yellow	1	Olfa	**6ZTL2**
Safety Recessed	Non-Changeable	6 ½ in	Steel	Blue, Orange, Red, Yellow	1	Klever	**H5018**
Safety Recessed	Non-Changeable	7 in	Steel	Blue, Orange, Yellow	1	Klever	**H5019**
Safety Recessed	Push Button	7 in	Steel	Blue	1	Klever	**25D164**
Pocket Safety Cutters							
Retractable							
Safety Utility Point	Push Button	5 ½ in	Steel	Blue	1	PHC	**20F891**
Safety Cutters							
Fixed							
Safety Recessed	Non-Changeable	7 in	Steel	White	1	Klever	**436L68**
Safety Recessed	Non-Changeable	5 ½ in	Steel	White	1	Klever	**436L63**
Safety Recessed	Push Button	7 in	Steel	Silver	1	Klever	**436L66**
Safety Recessed	Non-Changeable	5 ½ in	Steel	Orange	1	Klever	**436L62**
Safety Recessed	Non-Changeable	5 ½ in	Steel	Yellow	1	Klever	**436L64**
Fixed Blade							
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Blue	1	Westward	**39CE80**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Orange	1	Westward	**39CE82**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Red	1	Westward	**39CE83**
Safety Recessed	Non-Changeable	5 ⅜ in	Stainless Steel	Yellow	1	Westward	**39CE84**
Safety Recessed	Non-Changeable	5 ¾ in	Steel	Yellow, Blue, Red, Orange	1	Klever	**F9141**
Safety Recessed	Screw	6 in	Steel	Yellow	1	Olo	**1MPP8**
Safety Recessed	Push Button	6 ¼ in	Steel	Yellow	1	Klever	**40P283**
Safety Recessed	Push Button	6 ½ in	Steel	Yellow, Orange, Red, Blue	1	Klever	**G6063**
Safety Recessed	Non-Changeable	4 ⅝ in	Stainless Steel	Blue	1	Klever	**13C590**
Safety Recessed	Non-Changeable	4 ⅝ in	Steel	Black, Blue, Yellow, Red, Orange	1	Klever	**F9142**
Safety Recessed	Non-Changeable	4 ⅝ in	Steel	Yellow	1	Klever	**25GW28**
Safety Recessed	Non-Changeable	7 in	Steel	Orange	1	Klever	**436L67**

Blade Type	Blade Change	Overall Length	Blade Material	▶CHOOSE: Handle Color	No. of Blades Incl.	Brand	Item No.
Safety Recessed	Non-Changeable	7 in	Steel	Yellow	1	Klever	**436L69**
Safety Recessed	Push Button	6 ½ in	Steel	Silver	1	Klever	**436L65**
Straight	Non-Changeable	2 ⅜ in	Stainless Steel	Blue	1	PHC	**20F887**
Retractable							
Mfr. No. SP-017 or SPD-017	Quick-Change	5 ½ in	Steel	Blue	1	PHC	**29UJ69**
Safety Knives							
Automatic Retracting							
—	Quick-Change	6 in	Steel	Black, Blue	4	Westward	**22XP79**
Rounded Safety Blade	Slide	5 ½ in	Steel	Yellow	1	Olfa	**5LC46**
Rounded Safety Blade	Slide	6 ½ in	Steel	Yellow	1	STANLEY	**45J352**
Rounded Safety Blade	Quick-Change	7 in	Steel	High-Visibility Orange	1	PHC	**4MUX5** *
Rounded Safety Blade	Quick-Change	6 ½ in	Steel	Black, Gray	5	STANLEY	**31NE37**
Rounded Safety Blade	Push Button	6 in	Steel	Green	1	PHC	**22VA96**
Rounded Safety Blade	Quick-Change	6 in	Steel	High-Visibility Yellow	1	PHC	**20F888**
Rounded Safety Blade	Quick-Change	5 ½ in	Steel	Blue	1	PHC	**31AD22**
Rounded Safety Blade	Screw	6 in	Steel	Orange	1	STANLEY	**24AL27**
Rounded Safety Blade	Slide	4 ½ in	Steel	Yellow	1	Olfa	**2FTY4**
Rounded Safety Blade	Manual	6 in	Steel	Black, Blue	1	Martor	**35LV54**
Safety Blade	Quick-Change	5 ½ in	Steel	Black, Blue	1	Westward	**31XM99**
Safety Recessed	Screw	6 in	Steel	Black, Blue	3	Westward	**1YJD2**
Straight	Quick-Change	6 in	Steel	Black, Blue	4	Westward	**22XP80**
Fixed							
Rounded Safety Blade	Non-Changeable	5 ½ in	Stainless Steel	Blue	1	PHC	**4MUX6** *
Rounded Safety Blade	Push Button	5 ½ in	Steel	Black, Yellow	1	Olfa	**4GA85**
Rounded Safety Blade	Push Button	6 in	Steel	Blue	1	PHC	**31AD23**
Fully Automatic Retracting							
Rounded Safety Blade	Quick-Change	6 in	Steel	High-Visibility Orange	1	PHC	**4MUY7**
Rounded Safety Blade	Slide	6 in	Steel	Black, Yellow	1	Olfa	**2FTY3**
Manual Retracting							
Rounded Safety Blade	Push Button	6 in	Steel	Red	1	PHC	**4MUX7** *
Rounded Safety Blade	Push Button	6 in	Steel	Green	1	PHC	**4MUY2** *
Rounded Safety Blade	Push Button	6 in	Steel	Red	1	PHC	**4MUY1**
Rounded Safety Blade	Push Button	6 in	Steel	Green	1	PHC	**4MUX8**
Rounded Safety Blade	Screw	6 in	Steel	Silver	4	Westward	**4YR09**
Rounded Safety Blade	Screw	6 in	Steel	Gray	1	STANLEY	**45JW96**
Retractable							
Rounded Safety Blade	Screw	6 in	Bi-Metal with Titanium Edge	Red	1	IRWIN	**2WA17**
Self Retracting							
Rounded Safety Blade	Screw	6 in	Steel	Orange	1	STANLEY	**3Q021**
Safety Strap Cutters							
Fixed Blade							
Single Edge Razor	Tool Free	6 in	Steel	Yellow	1	PHC	**29UJ68**

Description	Brand	Item No.
Accessories		
Cutter Head with Blade, One-Sided Head for Klever X-Change	Klever	**25D163** *
Cutter Head with Blade, Two-Sided Head for Klever X-Change	Klever	**6ANT7** **
ABS Holster for 4MUX6	PHC	**4MUV8**
ABS Holster for 4MUX8, 4MUX7, 4MUY2, 4MUY1	PHC	**4MUY6**

** Pk. of 12. ** Pk. of 25.*

Scan. Order. Done.
Details on page A1.

6XVR1

43Y397

6XVP9

423K11

Safety Utility Knives

slice

Ceramic blade cutters stay sharp and don't rust.

Item	Overall Length	Handle Color	Blade/Handle Material	No. of Blades Incl.	Mfr. Model	Item No.
Box Cutter	7 in	Black, Orange	Ceramic / Plastic	1	10400	6XVR1
	7 in	Gray, Green	Ceramic / Plastic	1	10503	20H276
Pocket Utility Knife	2 ½ in	Gray	Ceramic / Plastic	1	10514	43Y397
	5 in	Gray	Ceramic / Plastic	1	10512	43Y396
Safety Cutter	2 ½ in	Green	Ceramic / Plastic	1	00200	6XVP9
Utility Knife	6 in	Black	Ceramic / Plastic	1	10550	423K11
	6 in	Black	Ceramic / Plastic	1	10554	423K10

31EP12

5FVX4

38VG19

20H250

23NK43

23NK20

20H272

Tactical Knives & Machete

GERBER SOG

Description	Blade Length	Blade Material	Blade Type	Blade Edge	Handle Color	One-Handed Operation	Lock Type	Includes	Brand	Item No.
Boot Knives										
Boot, Ghostrike Fixed Blade, Drop Point Blade	3 ¼ in	Stainless Steel	Drop Point	—	Black	—	—	Low Profile Sheath	Gerber	31EP12
Fixed Blade Knives										
—	4 ¾ in	Steel	—	—	Black	—	—	Lanyard, Sheath	SOG	61VA73
Fixed Blade, Partially Serrated Blade, Black	4 ¾ in	Steel	Fixed	Partially Serrated	Black	—	—	Sheath	SOG	5FVX4
LMF II	4 ¾ in	Stainless Steel	Drop Point	Partially Serrated	Black	—	—	Kydex Sheath that has Two Leg Straps	Gerber	2EVG8
LMF II Infantry	4 ¾ in	Stainless Steel	Drop Point	Serrated	Brown	—	—	(2) Leg Straps, Low-Profile Sheath with Built-in Sharpener	Gerber	23NK37
Strongarm	4 ¾ in	Steel	Full Tang	Serrated	Black	—	—	Sheath	Gerber	38VG19
	4 ¾ in	Steel	Full Tang	Serrated	Brown	—	—	Sheath	Gerber	38VG21
StrongArm, Includes Sheath	4 ¾ in	Steel	Full Tang	Fine	Brown	—	—	Sheath	Gerber	38VG20
Folding Knives										
—	3 ¼ in	Steel	—	—	Green	Yes	—	—	SOG	61VA72
Covert Auto - Serrated - Box	3 ¾ in	Steel	Drop Point	Serrated	Black	Yes	Pushbutton	Sheath	Gerber	23NK42
Covert FAST - Black, Serrated - Clam	3 ¾ in	Stainless Steel	Drop Point	Partially Serrated	Black	Yes	Plunge Lock	—	Gerber	6VEW1
Escape, Folding Rescue	3 ½ in	Steel	Spear Point	Partially Serrated	Black	Yes	Lockback	Glass Breaker, Line Cutter	SOG	20H250
EVO Midsize	3 ¼ in	Steel	Tanto	Partially Serrated	Black	Yes	Liner Lock	—	Gerber	6VER5
EZ-Out DPSF - S30V Black - Box	3 ½ in	Steel	Sheepsfoot	Partially Serrated	Black	Yes	Lockback	Sheath	Gerber	23NK40
FAST Draw	3 in	Steel	Tanto	Partially Serrated	Black	Yes	Plunge Lock	Belt Clip	Gerber	45J119
Folding	3 ¾ in	Steel	Drop Point	Straight	Black	Yes	Lockback	Reversible Bayonet Pocket Clip	SOG	5FVU9
Gerber 06 Auto, Serrated - Box	3 ¾ in	Stainless Steel	Tanto	Serrated	Black	Yes	Pushbutton	Sheath	Gerber	23NK44
Gerber 06 Auto - Drop Point, Serrated - Box	3 ¾ in	Stainless Steel	Drop Point	Serrated	Black	Yes	Pushbutton	Sheath	Gerber	23NK43
Hinderer CLS, Liner Lock	3 ½ in	Steel	Drop Point	Fine/Serrated	Black	Yes	Liner Lock	Belt Clip	Gerber	2EVD6
Mini Paraframe – Tanto	3 in	Steel	Tanto	Fine	Black	No	Frame Lock	Belt Clip	Gerber	45J121
Paraframe – Tanto	3 in	Steel	Tanto	Partially Serrated	Black	No	Frame Lock	Belt Clip	Gerber	45J122
Propel AO - 420C Blade, Black G-10 Handle	3 ½ in	Steel	Tanto	Partially Serrated	Black	Yes	Plunge Lock	Sheath	Gerber	23NK23
Propel Auto - 420C Blade, Black G-10 Handle	3 ½ in	Steel	Tanto	Partially Serrated	Black	Yes	Plunge Lock	Sheath	Gerber	23NK21
Propel Downrange AO - S30V Blade, Tan G-10 Handle, Tactical Folding	3 ½ in	Steel	Tanto	Partially Serrated	Tan	Yes	Plunge Lock	Sheath	Gerber	23NK22
Propel Downrange Auto - S30V Blade, Tan G-10 Handle	3 ½ in	Stainless Steel	Tanto	Partially Serrated	Tan	Yes	Plunge Lock	Sheath	Gerber	23NK20
Remix Tactical, Black	3 in	Steel	Tanto	Partially Serrated	Black	Yes	Liner Lock	Belt Clip	Gerber	21A156
STL 2.5	2 ¾ in	Stainless Steel	Drop Point	Fine	Black	Yes	Frame Lock	—	Gerber	6VEX5
Machete										
SOGFari Machete	18 in18 in	Stainless Steel	—	—	Black	—	—	Sheath	SOG	20H272

Folding Knives

Description	Blade Length	Blade Material	Blade Edge	One-Handed Operation	Lock Type	Brand	Item No.
Folding Knife							
860SBK Bedlam	4 in	Stainless Steel	Partially Serrated	Yes	Cam Lock	Benchmade	12F665
Applegate Fairbairn Covert	3 ¾ in	Stainless Steel	Partially Serrated	Yes	Double Lock	Gerber	45NV67
Combat Life Saver	3 ½ in	Stainless Steel	Partially Serrated	Yes	Liner Lock	Gerber	23NK65
Emerson Alliance Automatic	3 ½ in	Steel	Partially Serrated	Yes	Cross Bolt	Gerber	45NV98
EZ OUT Rescue	3 ½ in	Steel	Serrated	Yes	Lockback	Gerber	45NV88
Folded	3 in	Steel	Partially Serrated	Yes	Plunge Lock	Gerber	31EP22
Folding	3 ¾ in	Steel	Straight	Yes	Lockback	SOG	5FVU9
Gerber	3 ½ in	Steel	Fine	Yes	Plunge Lock	Gerber	483R53
GRIPTILIAN	3 ½ in	Stainless Steel	Fine	Yes	Cross Bolt	Benchmade	494P04
Highbrow	2 ¾ in	Steel	—	Yes	Pivot Lock	Gerber	783WA3
Mini Covert Auto	2 ¾ in	Steel	Partially Serrated	Yes	Pushbutton	Gerber	45NV96
MINI GRIPTILIAN	3 in	Stainless Steel	Fine	Yes	Cross Bolt	Benchmade	494P10
Paraframe I, Liner Lock	3 in	Stainless Steel	Fine	Yes	Frame Lock	Gerber	45NV78
Ripstop II	3 in	Stainless Steel	Partially Serrated	Yes	Frame Lock	Gerber	45NV79
Sharkbelly	3 ¼ in	Steel	Fine	Yes	Lockback	Gerber	446F90
SlimJim	3 ¼ in	Steel	Straight	Yes	Lockback	SOG	20H256
SlimJim	3 ¼ in	Steel	Straight	Yes	Lockback	SOG	20H257
Ultralight LST	2 in	Stainless Steel	Fine	No	Lockback	Gerber	45NV80
US1	2 ¾ in	Steel	Fine	No	Lockback	Gerber	45NV71
Pocket Clip Folder							
Barrage	3 ¾ in	Stainless Steel	Fine	Yes	Cam Lock	Benchmade	6UPJ3
E.A.B. Lite	1½"	Stainless Steel	—	—	—	Gerber	6VER4
EVO	3 ½ in	Stainless Steel	Serrated	Yes	Liner Lock	Gerber	5RA93
EVO, Frame Lock	3 ½ in	Stainless Steel	Fine	Yes	Liner Lock	Gerber	1XEZ9
Folding	2 ¾ in	Steel	Straight	Yes	Lockback	SOG	5FVY9
Folding	3 ½ in	Steel	Straight	Yes	Liner Lock	SOG	5FVU6
Hunting w/Clip Point Blade	3 ½ in	Steel	—	Yes	Liner Lock	Westward	1YJE6
Instant	3 ¼ in	Steel	Partially Serrated	Yes	Plunge Lock	Gerber	21A155
Mini, Frame Lock	2 ¼ in	Stainless Steel	Serrated	Yes	Frame Lock	Gerber	1XFA2
Paraframe, Frame Lock	3 in	Stainless Steel	Serrated	Yes	Frame Lock	Gerber	1XFA3
Paraframe I, Liner Lock	3 in	Stainless Steel	Fine	Yes	Frame Lock	Gerber	2EVF2
Remix Clip F/E	3 in	Steel	Fine	Yes	—	Gerber	4RDR6
Sheath Folder							
Gator	3 ¾ in	Stainless Steel	Serrated	No	Lockback	Gerber	5LM31
Gator	3 ¾ in	Stainless Steel	Fine	No	Lockback	Gerber	5LM30
Single Blade Folder							
L.S.T.	2 ¾ in	Stainless Steel	Fine	No	Lockback	Gerber	3PU59
STL 2.0, Frame Lock	2 in	Stainless Steel	Fine	Yes	Frame Lock	Gerber	1XJA9
Swagger, Drop Point, Serrated - Clam	2 ¾ in	Stainless Steel	Partially Serrated	Yes	Frame Lock	Gerber	6VEX2
Stockman Folder							
Folding Pocket	2 ¼ in	Stainless Steel	Fine	No	Liner Lock	Westward	1YJE5

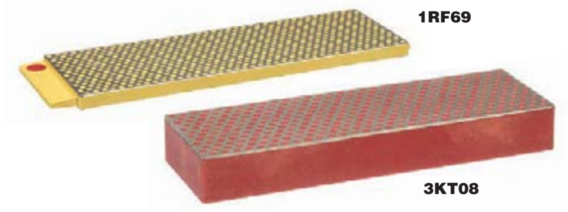
Rescue Knives and Tools

Description	Handle Color	Handle Type	Overall Length	Blade Length	Brand	Item No.
Boot Knife						
Boot Knife, Ghostrike Fixed Blade, Drop Point Blade	Black	Textured Grip	7 in	3 ¼ in	Gerber	31EP12
Rescue Hook						
w/Integrated Oxygen Tank Wrench, Glass Breaker	Black	Textured Edge	8 in	3 in	Gerber	23NK39
Rescue Tool						
Pen, w/Inside and Outdoors, Integrated Glass Breaker Tip, Reliable Push Button Mechanism, Rite in the Rain Ink Cartridge Works in all Conditions, Stainless Steel Pocket Clip	Black	Ergonomic	5 ½ in	—	Gerber	33GM35
Safety Cutters						
Medical, w/Soft Nylon Sheath	Black	Full-Tanged	6 ½ in	½ in	Benchmade	6XVP1
Long, w/Soft Sheath	Black	Full-Tanged	6 ½ in	½ in	Benchmade	6XVP2

Knife Sharpening Stones

- Diamond abrasive

Description	Grade	Color	L	W	H	Item No.
Mini-Sharp Sharpener	Fine	Red	2 ⅝ in	⅞ in	¼ in	3KR90
Double-Sided Diafold Sharpener	Fine/Coarse	Red/Blue	4 ⅓ in	⅞ in	¼ in	1RF69
Diamond Whetstone w/Plastic Box	Fine	Red	6 in	2 in	¾ in	3KT08
DuoSharp Bench Stones	Fine/Coarse	Red/Blue	8 in	2 ⅝ in	⅜ in	1RF73



Find more styles and colors, and more information on each tool's functions at Grainger.com.

5LW46 23NK56 4R169 6FZL8 1YJC7 3BB52 5LM29 5FVU2 19YH58

Multi-Tools

VICTORINOX SWISS ARMY · GERBER · LEATHERMAN · PROTO · WESTWARD · SOG · STANLEY

Pocket—Small and light enough to be carried in a pants pocket.

One-Hand Opening—Frees the other hand to hold workpieces in place.

Needle-Nose Plier-Based—Can be used at multiple angles.

Compact—Small enough to attach to a key ring.

Butterfly-Opening—Larger center-opening tools are built for a wide variety of jobs.

Description	No. of Tools	No. of Functions	Brand	Item No.
Pocket Multi-Tools				
Swiss Champ®	16	33	Victorinox	**6D003**
CyberTool M	16	34	Victorinox	**5LW46**
Multi-Plier 600 - Bluntnose Black w/Carbide Insert Cutters, Berry-Compliant Sheath - Box	14	14	Gerber	**23NK55**
Center-Drive, Fine Edge, Sheath	14	14	Gerber	**52JH39**
Center-Drive, Fine Edge, Sheath and 12-Pc Bit Set	14	14	Gerber	**52JH40**
Center-Drive, Fine Edge, Berry Sheath	14	14	Gerber	**52JH43**
Center-Drive, Fine Edge, Berry Sheath and 12-Pc Bit Set	14	14	Gerber	**52JH44**
Cybertool 29	14	29	Victorinox	**6GCU0**
Multi-Plier 600 - Needlenose Stainless w/ Carbide Insert Cutters, Sheath - Box	13	13	Gerber	**23NK56**
DIME™ Micro Tool, Fine Edge	12	12	Gerber	**21A151**
Multi-Plier 600-ST (Sight Tool), Black, Sheath	11	11	Gerber	**23NK59**
Huntsman, Green Camo	9	15	Victorinox	**45J366**
Fieldmaster®	9	15	Victorinox	**6GCT2**
Climber®	8	14	Victorinox	**6GCT3**
Folding Knife	6	12	Victorinox	**39CG40**
Folding Knife	6	13	Victorinox	**39CG38**
Raptor, Multi-Tool, Steel	6	6	Leatherman	**41U105**
Silvertech Signature Lite	5	7	Victorinox	**6GCT6**
Tinker	5	12	Victorinox	**6D002**
Midnite Manager	5	10	Victorinox	**6GCT0**
Electrician	4	7	Victorinox	**6D004**
Red Classic	3	7	Victorinox	**6D001**
Black Classic	3	7	Victorinox	**5LW42**
Ruby Classic	3	7	Victorinox	**6GCT9**
Electrician's Self Locking	2	4	Proto	**4R169**
One-Hand Opening Multi-Tools				
OHT, Black w/Black Molle Sheath	16	16	Leatherman	**41U101**
OHT, Tan w/Black Molle Sheath	16	16	Leatherman	**41U102**
OHT, Black w/Tan Molle Sheath	16	16	Leatherman	**41U103**
OHT, Tan w/Tan Molle Sheath	16	16	Leatherman	**41U104**
MP 600, Needlenose, Black Oxide	14	14	Gerber	**6FZL8**
MP600, Needlenose, Stainless	14	14	Gerber	**5LM41**
MP600, Blunt Nose, Stainless	14	14	Gerber	**1XEZ6**
MP600 Multi-Tool and LED Flashlight Combo	14	14	Gerber	**19LZ18**
Diesel	13	13	Gerber	**1XFA5**
Needle-Nose Plier-Based Multi-Tools				
SIGNAL™	19	19	Leatherman	**39CG20**
ST300 SS	19	19	Leatherman	**5CZF5**
Charge Plus	19	19	Leatherman	**456K78**
REBAR®	17	17	Leatherman	**38HT39**
Rebar ™	17	17	Leatherman	**19T222**
Rebar ™, Serrated	17	17	Leatherman	**19T219**
Needle Nose/Utility Knife Set	15	15	Westward	**1YJC7**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**19LY97**
Wingman ®	14	14	Leatherman	**19T221**
MP600 Pro Scout™	12	14	Gerber	**3BB52**
Diesel Multi-Plier	12	12	Gerber	**23NK52**
D.E.T.	9	12	Gerber	**2EVF1**
Compact Multi-Tools				
Multi-Plier® 400 Compact	11	11	Gerber	**5LM29**
Curve - Gray	6	6	Gerber	**4RDT3**
Curve - Blue	6	6	Gerber	**4RDT4**
Butterfly-Opening Multi-Tools				
SwissTool Spirit Plus	27	35	Victorinox	**6GCU1**
SwissTool Spirit Plus Ratchet	27	36	Victorinox	**6GCT7**
Surge Black Oxide	21	21	Leatherman	**4ANE2**
SURGE®	21	21	Leatherman	**9UED0**
Super Tool 300, Hex $\frac{5}{16}$, $\frac{7}{32}$, $\frac{1}{8}$ in Slotted, #2 Phillips Screwdrivers	19	19	Leatherman	**5CZF6**
Super Tool 300, Serrated	19	19	Leatherman	**19LY95**
Super Tool 300	19	19	Leatherman	**8ZT30**
Super Tool 300, Leather	19	19	Leatherman	**8MVY5**
Charge Plus TTI	19	19	Leatherman	**456K79**
Wave Plus	18	18	Leatherman	**456K80**
Wave Plus CC	18	18	Leatherman	**456K82**
Wave Plus	18	18	Leatherman	**456K81**
Multi-Tool, Black Oxide	16	16	SOG	**5FVU2**
MUT, Black	16	16	Leatherman	**5YJX5**
MUT (Military Utility Tool)	16	16	Leatherman	**6XDT0**
Rebar Knifeless	15	16	Leatherman	**52NT88**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**6XDT5**
MUT EOD (Military Utility Tool) (Explosive Ordinance Disposal)	15	15	Leatherman	**6XDT4**
Diesel	14	14	Gerber	**6FZL9**
Sidekick ™	14	14	Leatherman	**19T220**
Gerber Gear	12	12	Gerber	**45NV86**
DIME™ Micro Tool	12	12	Gerber	**21A150**
Multi-Tool	12	12	Westward	**6ATV1**
Suspension™	12	12	Gerber	**2ZB19**
Swiss Tool™ X	12	27	Victorinox	**2PU14**
Swiss Tool™ Spirit	12	24	Victorinox	**2PU15**
Swiss Tool™	12	27	Victorinox	**5LW45**
Full Size	12	12	STANLEY	**3FRA8**
SwissTool Spirit X, Drop Point	10	24	Victorinox	**19T438**
Bladeless Multi-Tool				
MP600 Bladeless	12	12	Gerber	**19YH58**
Accessory - Tool Holster				
For Knives up to 3½" Folded Length	—	—	Victorinox	**6GCT4**
Accessories for 5YJX5 and 5YJX6				
Punch	—	—	Leatherman	**5YJX9**
Punch, ⅛"	—	—	Leatherman	**5YJY0**
Hook Cutter	—	—	Leatherman	**5YJY1**
Wrench	—	—	Leatherman	**5YJY2**
Carbon Scraper	—	—	Leatherman	**5YJX8**

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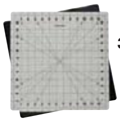
2CJX2



33M303

Rotary Cutting Mats

Self-healing, double-sided mats have grid lines on 1 side for detailed cutting.

Description	L (in.)	W (in.)	Brand	Item No.
Rectangular				
Gray with Grid on Both Sides	12	18	Fiskars	**33M304**
One Side Green with Yellow Lines/Other Side Solid Green	18	24	Olfa	**2CJX1**
	24	36	Olfa	**2CJX2**
Square				
Gray with Grid on One Side, Solid Black on Other Side	8	8	Fiskars	**33M302**
	14	14	Fiskars	**33M303**
One Side Green w/White Lines/Other Side Solid Green	36	24	Olfa	**3KJD7**
One Side Translucent w/White Lines/Other Side Solid Translucent	36	24	Olfa	**3KJD8**

2CJU9

2CJU8

OLFA *Best made cutting tools in the world.* · FISKARS

Rotary Cutters

Use tools to easily cut paper, plastic, vinyl, composites and textiles.

Description	Brand	Item No.
Rotary Cutters		
Ergonomic		
60mm	Olfa	**2CJU9**
60mm	Fiskars	**4RNT7**
45mm	Olfa	**2CJU7**
Straight		
45mm	Olfa	**2CJU8**
Rotary Cutter Replacement Blades		
28 mm, Tungsten Carbide	Olfa	**2CJV6**
45 mm, Tungsten Carbide	Olfa	**2CJW1**
60 mm, Tungsten Carbide	Olfa	**2CJW4**

Scissors

Description	Length of Cut	Brand	Item No.
Electrician's/Electronics Scissors			
Stainless Steel			
Elongated Rings Handle, Sharp Tip, Ambidextrous	1 ¾ in	Westward	2UJX8
Scissors, Ring and Ring Handle, Curved, Extra Sharp Tip, Right Handed	1 in	Klein Tools	4VAT5
Ring and Bow Handle, Sharp Tip, Ambidextrous	2 ½ in	Westward	4YP41
Ring and Ring Handle, Sharp Tip, Serrated, Stripping Notches, Right Handed	2 in	Klein Tools	4VAP1
Steel			
Ring and RIng Handle, Blunt Tip, Serrated, Wire Cut Knotches, Ambidextrous	1 in	Clauss	10F730
Shear, Curved, Ring and Ring Handle, Extra Sharp Tip, Right Handed	1 in	Klein Tools	4VAT3
Ring and Ring Handle, Sharp Tip, Right Handed	2 in	Klein Tools	2DFJ3
Scissor with Stripping Notches, Ring and Ring Handle, Blunt Tip, Serrated, Stripping Notches,Right Handedl	2 in	Klein Tools	2DGR9
Fabric/Fiber Scissors			
Stainless Steel			
Curved Scissors, Ring Handle, Sharp Tip, Ambidextrous	1 in	Fiskars	45ND54

Description	Length of Cut	Brand	Item No.
Steel			
Pocket Safety Thread Yarn Scissor, Elongated Ring Handle, Blunt Tip, Right Handed	2 ¼ in	Klein Tools	4VAR7
Scissors			
Ceramic			
Scissors, Ring and Ring Handle, Blunt Tip, Serrated, Ambidextrous	2 in	Slice	423K15
Stainless Steel			
Scissors, Ring and Ring, Sharp Tip, Blade, Ambidextrous	2 ½ in	Gingher	45ND47
Heavy-Duty Shear, Oversized Fulcrum, Adjustable Tension, Ring and Bow Handle, Sharp Tip, Right Handed	3 ½ in	Clauss	19T041
HD Scissor	3 ½ in	Jonard Tools	34RP86
Steel			
Shear, Ring and Ring Handle, Sharp Tip, Right Handed	¾ in	Clauss	22UN25
Shear, Ring and Ring Handle, Blunt Tip, Right Handed	1 ¼ in	Clauss	22UN33
Titanium Bonded			
Scissors, UltraFlex Handle, Sharp Tip, Ambidextrous	1 ¾ in	Clauss	10F710

Shears

Description	Length of Cut	Brand	Item No.
Carpet Shears			
Nickel Chrome			
Sharp Point, Straight Edge, Offset, Ring and Bow, Offset	3 in	Heritage	4VAV2
Stainless Steel			
Blunt Point, Straight Edge, Offset, Ring and Bow, Offset	2 ¾ in	Klein Tools	4VAV3
Steel			
Blunt Point, Straight Edge, Offset, Ring and Bow, Offset	2 ¾ in	Klein Tools	4VAU9
Sharp Point, Straight Edge, Right-Hand, Offset With Enlarged Lower Ring, Offset	5 in	Crescent Wiss	4CP69
Fabric/Fiber Shears			
Steel			
Sharp Point, Straight Edge, Right-Hand, Offset Ring And Bow, Offset	4 ½ in	Clauss	10F728
Sharp Point, Straight Edge, Right-Hand, Offset Ring And Bow, Offset	6 in	Clauss	10F727
Fabric Shears			
Steel			
Blunt Point, Serrated Edge, Ring and Enlarged Bow, Offset	3 ¾ in	Klein Tools	4VAT7
Blunt Point, Straight Edge, Right-Hand, Offset Ring And Bow, Offset	4 ½ in	Clauss	10F726
Sharp Point, Straight Edge, Left-Hand, Offset Ring And Bow, Offset	5 in	Clauss	10F736
Titanium Bonded			
Micro-Tip Point, Straight Edge, Ambidextrous, Extra Large Bow, Straight	¾ in	Clauss	10F723
Blunt Point, Serrated Edge, Ambidextrous, Ring And Bow, Offset	1 ¾ in	Clauss	10F717
Sharp Point, Straight Edge, Ambidextrous, Ring And Bow, Straight	3 ¼ in	Clauss	10F714
Industrial Shears			
Aluminum Bronze			
Sharp, Top Blade Rounds to Point, Straight Edge, Offset, with Enlarged Lower Ring, Straight	3 in	Ampco	21XV87
Sharp, Top Blade Rounds to Point, Straight Edge, Right-Hand, Offset, with Enlarged Lower Ring, Straight	4 ½ in	Ampco	21XV88
Sharp, Top Blade Rounds to Point, Straight Edge, Right-Hand, Offset, with Enlarged Lower Ring, Straight	8 in	Ampco	21XV90
Metal			
Blunt Point, Serrated Edge, Right-Hand, Ring and Enlarged Bow, Straight	3 ¼ in	Klein Tools	4VAR3
Sharp Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Straight	4 ¾ in	Klein Tools	4VAR2
Stainless Steel			
Sharp Point, Serrated Edge, Ambidextrous, Straight	1 ¾ in	Olfa	5LC53
Straight Edge, Right-Hand, Manual, Straight	1 ½ in	Knipex	10U144
Straight Edge, Right-Hand, Manual, Straight	1 in	Knipex	10U141
Sharp Point, Serrated Edge, Ambidextrous, Straight	2 ¼ in	Olfa	5LC54
Steel			
Sharp Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Offset	4 ¾ in	Klein Tools	4VAL4
Sharp Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Offset	4 ¾ in	Klein Tools	4VAL3
Sharp Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Offset	6 in	Klein Tools	4VAL6
Poultry Shear			
Nickel Chrome			
Blunt Point, Ring and Bow, Straight	3 ½ in	Klein Tools	4VAU5
Sharp Point, Ring and Bow, Straight	4 ¼ in	Klein Tools	4VAU3
Stainless Steel			
Sharp Point, Offset, Ergonomic With Enlarged Lower Ring, Offset	3 ½ in	Westward	4YP39

Description	Length of Cut	Brand	Item No.
Sharp Point, Straight, Ergonomic With Enlarged Lower Ring, Straight	3 ⅛ in	Westward	4YP40
Ball Point, Ring and Bow, Straight	3 in	Klein Tools	4VAT9
Sharp Point, Ring and Bow, Straight	3 in	Klein Tools	4VAU2
Sharp Point, Ring and Enlarged Bow, Straight	3 in	Klein Tools	4VAU1
Steel			
Sharp Point, Straight Edge, Right-Hand, Ring and Bow, Straight	3 in	Klein Tools	4VAN1
Shears			
Nickel Chrome			
Sharp Point, Ring and Enlarged Bow, Ring and Enlarged Bow	2 in	Klein Tools	4VAP4
Sharp Point, Ring and Enlarged Bow, Ring and Enlarged Bow	3 in	Klein Tools	4VAP5
Stainless Steel			
Sharp Point, Partially Serrated Edge, Right-Hand, Straight, Ergonomic, Straight	1 ¾ in	Westward	4YP37
Sharp Point, Straight Edge, Right-Hand, Straight, Ergonomic, Offset	1 ¾ in	Westward	2UJY1
Sharp Point, Partially Serrated Edge, Right-Hand, Straight, Ergonomic, Straight	1 ¼ in	Westward	2UJX9
Pointed Point, Straight Edge, Ambidextrous, Lightweight Ultraflex, Straight	3 ½ in	Clauss	19T042
Pointed Point, Straight Edge, Right-Hand, Bent, Offset	3 ½ in	Clauss	19T045
Serrated Edge, Right-Hand, Ergonomic	4 in	Fiskars	45ND52
Serrated Edge, Right-Hand, Ergonomic	4 in	Fiskars	45ND53
Serrated Edge, Ambidextrous, Ergonomic	4 ¼ in	Fiskars	425X90
Steel			
Sharp Point, Partially Serrated Edge, Right-Hand, Loop, Straight	1 ¾ in	Westward	2UJY2
Sharp Point, Straight Edge, Right-Hand, Straight, Ergonomic, Straight	1 ¼ in	Westward	2UJY3
Sharp Point, Serrated Edge, Ambidextrous, Spring Action, Straight	1 in	Klein Tools	4VAP7
Pointed Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Straight	2 ½ in	Clauss	22UN46
Sharp Point, Straight Edge, Right-Hand, Ring and Enlarged Bow, Offset	6 in	Klein Tools	4VAL7
Titanium Bonded			
Sharp Point, Straight Edge, Right-Hand, Large Handle w/Contoured Upper Bow, Offset	3 ½ in	Clauss	5EHK0
Shop Shears			
Titanium Bonded			
Sharp Point, Straight Edge, Ambidextrous, Offset, Contoured Ring With Enlarged Lower Ring, Offset	2 in	Clauss	10F708
Sharp Point, Straight Edge, Right-Hand, Ergonomic, Offset, Contoured Ring With Enlarged Lower Ring, Offset	3 ¾ in	Clauss	10F706
Sharp Point, Straight Edge, Ambidextrous, Offset, Contoured Ring With Enlarged Lower Ring, Offset	4 ½ in	Clauss	10F707
Titanium Bonded Steel			
Sharp Point, Straight Edge, Ambidextrous, Non-Slip RibGrip Handles, Straight	2 ½ in	Clauss	5EHK1
Sharp Point, Straight Edge, Ambidextrous, Bent, UltraFlex Handles w/Extra Large Finger Bows, Offset	3 ½ in	Clauss	5EHJ6
Sharp Point, Straight Edge, Ambidextrous, Bent, UltraFlex Handles w/Extra Large Finger Bows, Offset	3 ¼ in	Clauss	5EHJ7
Wood Shears			
Stainless Steel			
Sharp Point, Straight Edge, Right-Hand, Straight, Ergonomic, Straight	2 in	Westward	2UJX7

Scan. Order. Done.
Details on page A1.

Description	Overall Length (in.)	Metal Gauge	Cutting Edge	Handle Design	Brand	Item No.
Aviation Snips						
Left/Right/Straight Cutting Action						
3-Pc. Set	—	18 Mild, 22 Stainless Steel	Knife	Ergonomic Soft Grip	Milwaukee	437K31
	—	18 Mild	Serrated	Ergonomic Rubber Grip	DeWalt	410D25
	9¾	18 Mild	Serrated	Vinyl Cushion Grip	Westward	4PM06
	9¾	18 Mild	Serrated	Vinyl Cushion Grip	Crescent Wiss	5MD08
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X865
Left/Right Cutting Action						
2-pc. Offset Set	9¾	18 Mild	Serrated	PVC Cushion Grip	Westward	4YP54
2-Pc. Set	—	18 Mild, 22 Stainless Steel	Knife	Ergonomic Soft Grip	Milwaukee	437K30
Left/Straight/Circles Cutting Action						
Offset	10¾	18 Mild/18 Galvanized/20 Stainless Steel	Serrated Top Blade	Color Coded Molded Thermoplastic Grip	Malco	2CJY9
Left/Straight Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X863
Offset	9¼	18 Mild	Serrated	Non-Slip Grip	Crescent Wiss	5A447
Left Cutting Action						
Offset	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG15
Notching/Trimming Cutting Action						
Bulldog	10	18 Galvanized/20 Stainless Steel	Serrated Lower Jaw	Color Coded Plastic Grip	Malco	2CJY8
Right/Straight Cutting Action						
Aviation	9¾	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	4X864
Offset	9¼	18 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	5A448
Right Cutting Action						
Offset	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG16
Straight Cutting Action						
Bulldog	9¼	16 Mild	Serrated	Contoured Vinyl Grip	Crescent Wiss	1A631
Electrician's/Electronics Snips						
Self Opening, Sharp Tip, Serrated, Right Handed	—	—	Serrated	Cushion Grip Curved	Klein Tools	4VAP8
Fabric/Fiber Snips						
Carpet Cutting, Ambidextrous	—	—	Knife	Ring and Enlarged Bow	Fiskars	489X64
For The Sewing and Quilting Trades or General Usage, Use for Clipping Threads or Other Light Cutting Operations, Ambidextrous	—	—	Knife	Single Ring	Clauss	36LR65
Multipurpose, Ambidextrous	—	—	Knife	Ring and Enlarged Bow	Fiskars	39DT58
Multipurpose, Ambidextrous, Single Ring, Sharp Point	—	—	Knife	Ring and Enlarged Bow	Clauss	10F754
Multipurpose, Right-Hand, Contoured, Extra Sharp Point	—	—	Knife	Ring and Enlarged Bow	Klein Tools	4VAL1
Multipurpose, Right-Hand, Sharp Point	4¾	—	Knife	Ring and Enlarged Bow	Crescent Wiss	2ZY16
Thread Clip Snip, Self-Opening, Blunt Tip, Right Handed	—	—	Knife	Ring and Enlarged Bow	Klein Tools	4VAV7
Thread Clip Snip, Self-Opening, Sharp Tip, Right Handed	—	—	Knife	Single Ring	Klein Tools	4VAV6
Metal Cutting Snip						
Left/Right/Straight Cutting Action						
Multipurpose	—	22 Cold Rolled Steel	Knife	Ergonomic	Fiskars	425X92
Multipurpose Snips						
Blunt Tip, Serrated, Ambidextrous	—	—	Serrated	Ergonomic	Fiskars	425X91
Left Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG18
Right Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	1UG17
Straight Cutting Action						
Multipurpose	9¾	18 Mild	Knife	Plastic Soft Grip	Westward	5MX59
	10½	20 Mild	Serrated	Non-Slip Grip	Crescent Wiss	4NV65
Tinner's Snips						
Straight Cutting Action						
2-pc. Set	7 & 10	20 Mild	NonSerrated	Matted Vinyl Cushion Grip	Westward	4YP53
Duckbill	10¼	24 Mild	Knife	Ergonomic Cushion Grip	Crescent Wiss	2ZY12
Long Cut	11½	20 Mild	Serrated	Plastic Soft Grip	Westward	5MW41
Tinner's	7	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY10
	8¼	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV99
	9¾	24 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV98
	11	22 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZV97
	12	20 Mild	Knife	Plastic Soft Grip	Westward	4YP52
	12½	20 Mild	Serrated	Ergonomic Cushion Grip	Crescent Wiss	2ZY11

Snips

AVIATION SNIPS

Cut sheet metal, rolled steel and other metals. Nonslip, serrated jaws.

3-Pc. Sets—Steel jaws are hardened, tempered, and can be sharpened. Set 4PM06 includes 5MX59, 1UG17, and 1UG18. Set 5MD08 includes 4X863, 4X864, and 4X865.

2-Pc. Offset Set—Drop-forged, hardened alloy steel blades are offset to keep hands away from cutting surface. Comfort-grip PVC handles. Includes 1UG15 and 1UG16.

MULTIPURPOSE SNIPS

Cut a variety of materials from paper to aluminum, sheet metal, and screening.

TINNER'S SNIPS

For trimming light stock, paper, linoleum, and sheet metal. Set 4YP53 includes 7 and 10" snips.

10Z845

HVAC Sheet Metal Tools

- For complete contents of the HVAC Starter Tool Kit, see Grainger.com

Description	Mfr. Model	Item No.
16-Pc. HVAC Starter Tool Kit	STKMR	10Z845
Hole Cutter, Cuts 2 to 12 in-dia	HC1	1ELG5
Hole Cutter, Cuts 2 to 20 in-dia.	HC2	1ELH8
Replacement Bit for 1ELG5 and 1ELH8	CB	1ELG6
Hole Punch	HP18KR	5KNV3
Cable Tie Tension Tool	TY4G	1ELG7
Adjustable Tie Tensioning Tool	TY6	1ELH7
Turbo Shear	TS1	1ELH1
Turbo Shear, Heavy-Duty	TSHD	1ELH9
Setting Hammer	SH3	1ELH4
Duct Knife, Serrated	DK6S	1ELJ7
Portable Mini Brake	MB48A	2CJY3
Sheet Metal Crimper	C5R	5KNU7
Hand Notcher	N1R	5KNU8
Hand Seamer, 6 in Jaw	S6R	5KNV1
Hand Seamer, 3¼ in Jaw	S2R	5KNU9
Offset Hand Seamer, 3 ¼ in Jaw	S3R	5KNV0

Aluminum Handle
22UN79

Fiberglass Handle
2G976

Steel Handle
54JD60

Steel Handle w/ Opening Spring

Bolt Cutters

H.K. Porter bolt cutters have drop-forged tapered jaws with toggle joints and center cut blades. Threaded bottom straps increase blade rigidity. Adjustment screw adjusts gap after extended use. Rubber grip handles.

Note: Westward replacement cutter heads available on Grainger.com.

For Maximum Diameter Soft Steel	For Maximum Diameter Medium Steel	For Maximum Diameter Hard Steel	Overall Length	Handle Color	Brand	Mfr. Model	Item No.
Aluminum Handle							
¼ in	—	¼ in	14 in	Gray	Westward	—	**22UN79**
¼ in	—	¼ in	18 in	Gray	Westward	—	**22UN80**
½ in	—	¼ in	24 in	Gray	Westward	—	**22UN81**
Fiberglass Handle							
⅜ in	⅜ in	—	18 in	Black	Blackhawk	DE-MBM	**14P380**
⅜ in	⅜ in	—	24 in	Black	Blackhawk	DE-BM	**14P362**
⅜ in	⅜ in	¼ in	18 in	Red	Klein Tools	63118	**25D140**
⅜ in	⅜ in	¼ in	18¼ in	Black	Crescent H.K. Porter	0090FC	**2G976**
⅜ in	⅜ in	⅜ in	18 in		Milwaukee	48-22-4218	**787LP0**
7/16 in	7/16 in	—	30 in	Black	Blackhawk	DE-SBM	**14P393**
7/16 in	7/16 in	5/16 in	24½ in	Black	Crescent H.K. Porter	0190FC	**2G992**
7/16 in	7/16 in	5/16 in	24½ in	Orange	Klein Tools	63124	**25D141**
7/16 in	7/16 in	7/16 in	24 in		Milwaukee	48-22-4224	**787LP1**
½ in	½ in	¼ in	24 in	Red	Nupla	6894331	**4GFG3**
½ in	½ in	⅜ in	30½ in	Black	Crescent H.K. Porter	0290FC	**2H007**
½ in	½ in	⅜ in	30½ in	Orange	Klein Tools	63130	**25D142**
½ in	½ in	½ in	30 in	Red	Nupla	6894332	**4GFG4**
9/16 in	9/16 in	7/16 in	36½ in	Yellow	Crescent H.K. Porter	0390FC	**2H021**
Plastic Dipped Handle							
¼ in	¼ in	⅛ in	8 in	Red	Crescent H.K. Porter	0890SMC	**31LZ45**
Plastic Handle							
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 01 200 R	**10U114**
¼ in	¼ in	⅛ in	8 in	Red	Crescent H.K. Porter	0890MC	**31LZ43**
¼ in	¼ in	⅛ in	8 in	Red	Crescent H.K. Porter	0890MA	**31LZ44**
Steel Handle							
3/16 in	3/16 in	⅛ in	6¼ in	Red	Knipex	71 01 160	**61KP84**
3/16 in	3/16 in	3/16 in	9¾ in	Red	Knipex	71 31 250 SBA	**54JD60**
¼ in	—	¼ in	8 in	Blue	Westward	493V63	**493V63**
¼ in	—	¼ in	8 in	Blue	Westward	493V62	**493V62**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 01 200 SBA	**2DYX2**
¼ in	3/16 in	3/16 in	8 in	Blue/Red	Knipex	71 12 200 SBA	**3JXH9**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 21 200 SBA	**3JXJ1**
¼ in	3/16 in	3/16 in	8 in	Blue/Red	Knipex	71 22 200 SBA	**3JXJ2**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 31 200 SBA	**2DYX3**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 41 200 SBA	**3JXJ3**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 01 200	**38GU34**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 31 200	**38GU47**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 41 200	**38GU48**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 02 200	**10U115**
¼ in	3/16 in	3/16 in	8 in	Red	Knipex	71 32 200	**10U116**
5/16 in	¼ in	3/16 in	15 in	Red	Ridgid	14213	**6PFE3**
5/16 in	5/16 in	3/16 in	14 in	Red	Crescent H.K. Porter	1490MC	**2H053**
5/16 in	5/16 in	3/16 in	14 in	Red	Klein Tools	63314	**25D136**
5/16 in	5/16 in	3/16 in	18 in	Red	Knipex	71 72 460	**10U117**
⅜ in	5/16 in	¼ in	19 in	Red	Ridgid	14218	**6PFE4**
Steel Handle (Cont.)							
⅜ in	⅜ in	¼ in	18 in	Black	Crescent H.K. Porter	0090MC	**2G978**
⅜ in	⅜ in	¼ in	18 in	Red	Klein Tools	63318	**2DFZ8**
⅜ in	⅜ in	¼ in	24 in	Blue/Red	Knipex	71 72 610	**10U118**
⅜ in	⅜ in	5/16 in	18 in	Black	Crescent H.K. Porter	0090MCP	**493X34**
7/16 in	⅜ in	5/16 in	24 in	Red	Ridgid	14223	**6PFE5**
7/16 in	7/16 in	5/16 in	24 in	Red	Klein Tools	63324	**25D137**
7/16 in	7/16 in	5/16 in	24 in	Black	Crescent H.K. Porter	0190MCP	**493X33**
7/16 in	7/16 in	5/16 in	30 in	Blue/Red	Knipex	71 72 760	**10U119**
½ in	7/16 in	⅜ in	31 in	Red	Ridgid	14228	**6PFE6**
½ in	½ in	⅜ in	30 in	Black	Crescent H.K. Porter	0290MC	**2H013**
½ in	½ in	⅜ in	30 in	Red	Klein Tools	63330	**2DFZ9**
½ in	½ in	⅜ in	35¾ in	Blue/Red	Knipex	71 72 910	**10U120**
9/16 in	½ in	7/16 in	38 in	Red	Ridgid	14233	**6PFE7**
9/16 in	9/16 in	7/16 in	36 in	Red	Crescent H.K. Porter	0390MC	**2H023**
9/16 in	9/16 in	7/16 in	36 in	Red	Klein Tools	63336	**25D138**
11/16 in	11/16 in	½ in	42 in	Red	Crescent H.K. Porter	0590MC	**2H035**
11/16 in	11/16 in	½ in	42 in	Red	Klein Tools	63342	**25D139**
Steel Handle, Concrete Mesh Cutter							
⅜ in	⅜ in	¼ in	7¾ in	Blue/Red	Knipex	71 82 950	**3JXJ4**
Steel Handle, Recess Head							
3/16 in	3/16 in	3/16 in	9¾ in	Red	Knipex	71 01 250 SBA	**54JD59**
Steel Handle, w/Tether Attachment							
¼ in	3/16 in	3/16 in	8 in	Blue/Red	Knipex	71 02 200 T BKA	**54JD68**
Steel Handle, w/Tether Attachment, 20° Head							
¼ in	3/16 in	3/16 in	8 in	Blue/Red	Knipex	71 22 200 T BKA	**54JD69**
Steel Handle w/Opening Spring							
¼ in	3/16 in	3/16 in	8 in	Blue/Red	Knipex	71 32 200 T BKA	**54JD70**

Description	Brand	Item No.
2-Pc. Steel Handle Bolt Cutter Set		
14 in, 18 in Overall Length	Westward	**493V67**

For Use With	Brand	Mfr. Model	Item No.
Replacement Cutter Heads for Steel and Fiberglass Handles			
Mfr. No. 1490MC	Crescent H.K. Porter	1413C	**2H049**
0090MC, Mfr. No. 0090FC	Crescent H.K. Porter	0013C	**2G972**
0190MC, Mfr. No. 0190FC	Crescent H.K. Porter	0113C	**2G986**
0290MC, Mfr. No. 0290FC	Crescent H.K. Porter	0213C	**2H003**
0390MC, Mfr. No. 0390FC	Crescent H.K. Porter	0313C	**2H017**
Mfr. No. 0590MC	Crescent H.K. Porter	0513C	**2H029**
Replacement Blades for Aluminum Handle			
22UN80	Westward	—	**22UN83**
22UN81	Westward	—	**22UN84**

Safety Strap Cutters

Cut steel straps under tension with one hand. 3YNA6 holds banding tightly during cut to prevent springback and features ergonomic handle with compound leverage for comfort.

Strap Gauge	Strap Width	Tool Length	Brand	Mfr. Model	Item No.
Heavy-Duty					
0.047 in	1¼ in	10¼ in	Bessey	D123S-SB	**3YNA6**
0.050 in	2 in	24 in	Crescent H.K. Porter	2690GP	**6A219**
General-Duty					
0.035 in	¾ in	9 in	Crescent H.K. Porter	0990T	**6A217**
0.050 in	1¼ in	12 in	Crescent H.K. Porter	1290G	**6A218**

3YNA6

6A218

Cutting Cap./Material	Overall Length	Brand	Mfr. Model	Item No.
Wire Rope Cutters				
⅛ in Cable and Soft Wire Rope	6 in	Knipex	95 61 150 SBA	**3JXJ6**
¼ in Cable/ Wire Rope, 1/16 in Spring Wire	7 ½ in	Westward	—	**1YNA8**
9/32 in in Conductor Cable, ¼ in Wire Rope, 5/32 in Med. Hard Wire, 7/64 in Piano Wire	7 ½ in	Knipex	95 61 190 SBA	**6PFF5**
¼ in Wire Rope	7 ½ in	Knipex	95 62 190 T BKA	**54JD83**
⅜ in Wire Rope And Stainless Steel Cable	24 in	Westward	—	**10D453**
Wire Cutter				
¼ in Wire Rope	7 ½ in	Knipex	95 61 190	**38GU44**

3JXJ6

6PFF5

Wire Rope Cutters

- Plastic-coated handles
- Shear cutting action

High-leverage jaws require little effort for cutting. 3JXJ6 has induction-hardened steel blades that cut Bowden cables and soft wire rope up to ⅛" dia. 6PFF5 features chrome-vanadium steel blades to cut 9/32" conductor cable, ¼" wire rope, 5/32" med.-hard wire, and 7/64" piano wire. 38GU44 features heavy-duty steel blades for cutting ¼" wire rope, 9/32" capacity copper, and 9/32" communication cable.

File Sets

1NFK6

10Z761

1NFK2

No. of Pieces	L	Includes	Brand	Item No.
Black Oxide Finish File Set				
American Pattern				
5	8 in	8 in Rectangular, 8 in Round, 8 in Round with Chip Breaker, 8 in Square, 8 in Half Round	Westward	**12F862**
Ergonomic-Handle Steel File Sets				
American Pattern				
3	6 in	6 in Half Round, Mill Bastard, Round Bastard, Soft Grip Handles, Vinyl Pouch	Westward	**1NFK6**
3	6 in	6 in Round, Mill, and Square, Bastard, Vinyl Pouch	Westward	**30PA54**
3	8 in	8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round Wood Rasp, With Ergo Handle	Westward	**10Z758**
4	6 in	6 in Half Round, 6 in Round, 6 in Half Round Wood Rasp, 6 in Flat Wood Rasp, With Ergo Handle	Westward	**10Z763**
4	8 in	8 in Half Round, 8 in Round, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, With Ergo Handle	Westward	**10Z759**
4	All 6 in, Double End File: 7¾ in	6 in Flat, 6 in Three Square, 6 in Round, Double End, With Ergo Handle	Westward	**10Z762**
4	All 8 in, Double End File: 7¾ in	8 in Flat, 8 in Three Square, 8 in Round, Double End, With Ergo Handle	Westward	**10Z757**
5	6 in, 8 in, 10 in	8 in and 10 in Mill, 10 in Half Round, 8 in Flat, Bastard, 6 in Slim Taper, with Ergo Handles, Vinyl Pouch	Westward	**30PA42**
5	6 in	6 in Flat, 6 in Half Round, 6 in Square, 6 in Three Square, 6 in Round, With Ergo Handle	Westward	**10Z761**
5	6 in, 8 in, 10 in	10 in Mill Bastard, Half-Round Bastard, 6 in Slim Taper, 8 in Mill Bastard TSE,8 in Flat Soft Grip Handles, Rollup Nylon Pouch	Westward	**1NFK7**
5	6 in, 8 in, 10 in	(5) Files, Ergonomic Handles and Pouch	Nicholson	**31LZ47**
5	8 in	8 in Mill Bastard, Flat Chip-Breaking, Half Round Bastard, Round Bastard, Square Bastard, Cloth Roll Pouch	Westward	**30PA62**
5	8 in	8 in Flat, 8 in Half Round, 8 in Square, 8 in Three Square, 8 in Round, With Ergo Handle	Westward	**10Z756**
6	6 in	6 in Round Wood Rasp, 6 in Half Round Wood Rasp, 6 in Flat Wood Rasp, 6 in Round, 6 in Flat, 6 in Half Round, With Ergo Handle	Westward	**10Z760**
6	8 in	8 in Round Wood Rasp, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round, 8 in Flat, 8 in Half Round, With Ergo Handle	Westward	**10Z755**
9	6 in, 10 in	6 in Slim Taper, 10 in Mill Bastard, Flat Chip-Breaking, Half Round Chip-Breaking, Mill Smooth, Round Bastard, All Purpose, Flat Bastard, Half Round Bastard, Cloth Roll Pouch	Westward	**30PA49**
9	8 in, 10 in, and 12 in	12 in Mill Bastard, 10 in Mill Bastard, Flat Bastard, Half-Round Bastard, Round Bastard, 8 in Flat Bastard, Half-Round, 6 in Slim Taper, 6 in Extra Slim Taper, Soft Grip Handles, Rollup Pouch	Westward	**1NFK8**
11	6 in,8 in,10 in, Double End File: 7¾ in	Flats: 6, 8 and 10 in, 8 in Half Round, 8 in Square, 6 in Three Square, 6 in Round, 8 in Half Round Wood Rasp, 8 in Flat Wood Rasp, 8 in Round Wood Rasp, Double End, With Ergo Handle	Westward	**10Z754**
High-Carbon Steel File Set				
Swiss Pattern				
12	6 ¼ in	6¼ in Barrette, Equaling, Flat, Half-Round, Joint, Knife, Marking,Crossing, Round, Slitting, Square, and Three Square Files, Pouch	Nicholson	**1F957**
Needle File Sets				
American Pattern				
6	5 5/16 in	5½ in Equaling, Half-Round, Flat, Round, Square, (3) Square Files, Vinyl Pouch	Westward	**39CE58**
12	5 5/8 in	Knife, Flat, Square, Round, Half Round, Hand, Crossing, Joint TRE (Only Edge Cut O/C and U/C), Marking (Only R/S Cutting O/C and U/C), Slitting, Barrette (F/S Cutting)	Westward	**10Z658**
12	5 19/32 in		Westward	**10Z659**
12	5 19/32 in		Westward	**10Z660**
12	7 3/16 in		Westward	**10Z661**
12	7 13/64 in		Westward	**10Z664**
12	7 13/64 in		Westward	**10Z662**
12	7 13/64 in		Westward	**10Z663**
Swiss Pattern				
12	6 ¼ in	Equaling, Barrette, Slitting, Half Round, Marking, Three Square, Round, Crossing, Flat, Knife, Square, Joint, Vinyl Pouch	Westward	**30PA65**
Paddle-Handle File Set				
American Pattern				
3	10 in	10 in Flat Chip-Breaking, 10 in Mill, and 10 in Flat Bastard with Paddle Handles, Cloth Roll Pouch	Westward	**30PA59**
Steel File Sets				
American Pattern				
3	6 in	6 in Mill and Round Bastard, 6 in Slim Taper, Vinyl Pouch	Westward	**30PA45**
5	6 in, 8 in, 10 in	10 in Half-Round Bastard, 8 & 10 in Mill Bastard TSE, 8 in Mill Smooth TSE, 6 in Slim Taper, Vinyl Pouch	Westward	**1NFK4**
6	4 in	4 in Warding Bastard, Half-Round Bastard, Round Bastard, Hand Bastard, Square Bastard, Slim Taper, Wooden Handles, Vinyl Pouch	Westward	**1NFK5**
8	10 in	10 in Flat Bastard, Flat Smooth, Square Smooth Bastard, Half-Round Bastard, Round Bastard, Mill Bastard TSE, 7 in Slim Taper, File Cleaner, Rollup Pouch	Westward	**1NFK2**
9	10 in	10 in Flat Bastard, 10 in Flat Smooth, 10 in Mill Bastard, 10 in Half-Round Bastard, 10 in Round Bastard, 8 in Flat Smooth, 8 in Half-Round Bastard, 8 in 4-In-Hand, 6 in Slim Taper, Rollup Pouch	Westward	**1NFK1**

American Pattern Files

Cabinet Rasp File

Cant Saw File

Farmers File

Flat File

L	Cut Type	Teeth per Inch	Item No.
Cant Saw			
6 in	—	50, 51	**10Z677**
8 in	—	44, 45	**10Z678**
10 in	—	39, 40	**10Z679**
Cross Cut			
8 in	—	45, 46	**10Z680**
10 in	—	40, 41	**10Z681**
Flat Rasp			
14 in	Standard	6.5, 11	**10Z667**
Flexible Files			
12 in	Standard	10	**12F864**
14 in	Medium	8	**10Z603**
14 in	Fine	12	**10Z604**
Half Round Files			
8 in	Bastard	15, 16	**10Z613**
8 in	Standard	12.5, 19.5	**10Z674**
8 in	SPL	25, 26	**10Z690**
10 in	Bastard	15, 16	**10Z614**
10 in	Standard	12.5, 18	**10Z675**
10 in	SPL	22, 24	**10Z691**
12 in	Bastard	14, 15	**10Z615**
12 in	SPL	19, 20	**10Z692**
13 ¾ in	Bastard	17	**39CE61**
14 in	SPL	17, 18	**10Z696**
Half Round Files, Black Oxide Finish			
6 in	Double	31, 32	**12F844**
6 in	Double	50, 54	**12F849**
8 in	Double	25, 26	**12F845**
8 in	Double	44, 47	**12F850**
10 in	Double	22, 24	**12F846**
10 in	Double	39, 42	**12F851**
12 in	Double	19, 20	**12F847**
14 in	Double	17, 18	**12F848**

Flexible

Half Round File

L	Cut Type	Teeth per Inch	Item No.
Half Round Wood Rasp Files			
8 in	Bastard	6.5	**10Z669**
8 in	Bastard	7.5	**10Z718**
8 in	Second	9.5	**10Z721**
8 in	Smooth	12.75	**10Z724**
10 in	Bastard	6.5	**10Z670**
10 in	Bastard	5.5	**10Z719**
10 in	Second	7.5	**10Z722**
10 in	Smooth	9.5	**10Z725**
12 in	Bastard	5.5	**10Z671**
12 in	Bastard	5.5	**10Z720**
12 in	Second	6.5	**10Z723**
12 in	Smooth	9.5	**10Z726**
Hand Files			
6 in	Double	33, 35	**12F858**
8 in	Double	25, 27	**12F859**
HOBBY RASP Files			
8 in	Bastard	—	**1NFV2**
Knife Files			
4 in	Bastard	49, 50	**12F809**
4 in	Second	60, 62	**12F814**
4 in	Smooth	82, 84	**12F819**
6 in	Bastard	41, 43	**12F810**
6 in	Second	53, 54	**12F815**
6 in	Smooth	66, 68	**12F820**
6 in	Double	66, 68	**12F860**
8 in	Bastard	34, 36	**12F811**
8 in	Second	44, 45	**12F816**
8 in	Smooth	56, 58	**12F821**
8 in	Double	56, 58	**12F861**
10 in	Bastard	29, 31	**12F812**
10 in	Second	37, 38	**12F817**
10 in	Smooth	43, 44	**12F822**
12 in	Bastard	23, 24	**12F813**
12 in	Second	26, 28	**12F818**
12 in	Smooth	38, 40	**12F823**

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CONTINUED

American Pattern Files

WESTWARD

Half Round, Black Oxide

Knife

Machinists

Mill Blunt File with Ergo Handle

Mill File

Pillar

Pipe Liner File

Rectangular File

Rectangular Black Oxide

L	Cut Type	Teeth per Inch	Item No.
Machinists Files			
4 in	Bastard	37, 45	26KP94
4 in	Bastard	57, 58	10Z699
4 in	Second	67, 68	10Z706
4 in	Smooth	71, 72	10Z712
4 in	Bastard	37, 44	26KP95
4 in	Bastard	43, 48	26KP97
6 in	Flat Bastard	30	1NFN9
6 in	Flat Smooth	52	1NFP5
6 in	Bastard	29	1NFP9
6 in	Bastard	29	1NFW1
6 in	Smooth	50	1NFR5
6 in	Bastard	31	30PA51
6 in	Smooth	53	30PA60
6 in	Bastard	48, 49	10Z701
6 in	Second	59, 60	10Z707
6 in	Smooth	68	10Z713
6 in	Bastard	28	1NFR8
6 in	Smooth	47	1NFT4
6 in	Bastard	32	1NFT8
6 in	Bastard	26, 31	26KP99
7 in	Slim	45, 50	26KP92
7 in	Double Extra Slim	56	30PA63
8 in	Flat Bastard	24	1NFP1
8 in	Bastard	24	1NFV8
8 in	Flat Second	34	1NFP4
8 in	Flat Smooth	45	1NFP6
8 in	Bastard	24	1NFR1
8 in	Bastard	24	1NFW2
8 in	Second	33	1NFR4
8 in	Smooth	44	1NFR6
8 in	Double/Single	22, 23, 32, 33	10Z697
8 in	Smooth	44, 48	26KR03
8 in	Bastard	25	30PA52
8 in	Smooth	47	30PA53
8 in	Chip-Breaking	25	30PA55
8 in	Bastard	44, 45	10Z702
8 in	Second	51, 52	10Z708
8 in	Smooth	58, 59	10Z714
8 in	Bastard	23	1NFR9
8 in	Bastard	23	1NFW4
8 in	Second	31	1NFT3
8 in	Smooth	40	1NFT5
10 in	Flat Bastard	21	1NFP2
10 in	Bastard	21	1NFV9
10 in	Flat Smooth	38	1NFP7
10 in	Bastard	21	1NFR2
10 in	Bastard	21	1NFW3
10 in	Smooth	40	1NFR7
10 in	Bastard	25, 26	10Z693
10 in	Double/Single	19, 20, 30, 31	10Z698
10 in	Chip-Breaking	22	30PA47
10 in	Bastard	23	30PA56
10 in	Smooth	37	30PA57
10 in	Bastard	20	1NFT1
10 in	Bastard/Double	22, 25	1NFT6
10 in	Bastard	19, 21	26KR04
12 in	Flat Bastard	17 to 19	1NFP3
12 in	Flat Smooth	36	1NFP8
12 in	Bastard	17	1NFR3
12 in	Bastard	22, 23	10Z694
12 in	Bastard	18	30PA50
12 in	Bastard	20	1NFT7
12 in	Bastard	18	1NFT2
14 in	Bastard	20, 21	10Z695
14 in	Bastard	17	30PA58
14 in	Bastard	17	30PA61
Mill Files			
6 in	Bastard	48, 52	26KR01
6 in	Bastard	48 to 52	1NFK9
6 in	Smooth	68, 74	1NFN5
8 in	Bastard	43 to 46	1NFN1
8 in	Second	50, 53	1NFN4
8 in	Smooth	56, 62	1NFN6
8 in	Bastard	43, 46	1NFV5
10 in	Bastard	33	1NFN2
10 in	Smooth	51, 56	1NFN7
10 in	Bastard	38, 41	1NFV6
10 in	Bastard	38, 39	10Z703
10 in	Second	44, 45	10Z709
10 in	Smooth	51, 52	10Z715
12 in	Bastard	34, 37	1NFV7
12 in	Bastard	30	1NFN3
12 in	Smooth	45, 50	1NFN8
12 in	Bastard	34, 35	10Z704
12 in	Second	39, 40	10Z710
12 in	Smooth	45, 46	10Z716
14 in	Bastard	31, 32	10Z705
14 in	Second	35, 36	10Z711
14 in	Smooth	40, 41	10Z717
Pillar Files			
6 in	Bastard/Smooth	34, 35	10Z739
6 in	Second	44, 45	10Z742
6 in	Smooth	56, 57	10Z744
8 in	Bastard/Smooth	28, 29	10Z740
8 in	Second	38, 39	10Z743
8 in	Smooth	47, 48	10Z745
10 in	Bastard/Smooth	23, 24	10Z741

Round File w/ Ergo Handle

Round Black Oxide

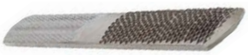
Spot Welder Tip File

Square

Taper File

Triangular

Warding


HOBBY RASP

L	Cut Type	Teeth per Inch	Item No.
Rectangular Files			
3 ¾ in	Bastard	40	39CE65
4 in	Bastard	40, 48	26KP96
8 in	SPL	15, 16	10Z610
8 in	SPL	25, 26	10Z683
10 in	SPL	15, 16	10Z611
12 in	SPL	14, 15	10Z612
12 in	SPL	16, 17	10Z686
14 in	SPL	19, 20	10Z687
14 in	SPL	17, 18	10Z689
Rectangular Files, Black Oxide Finish			
6 in	Double	40, 42	12F824
6 in	Double	52, 54	12F829
6 in	Single	48, 49	12F833
6 in	Single	59, 60	12F838
6 in	Single	68	12F841
8 in	Double	31, 32	12F825
8 in	Double	45, 47	12F830
8 in	Single	44, 45	12F834
8 in	Single	51, 52	12F839
10 in	Double	24, 25	12F826
10 in	Double	38, 40	12F831
10 in	Single	38, 39	12F835
10 in	Single	44, 45	12F840
12 in	Double	22, 23	12F827
12 in	Double	36, 37	12F832
12 in	Single	34, 35	12F836
14 in	Double	19	12F828
14 in	Bastard/Single	31, 32	12F837
Round Files, Black Oxide Finish			
6 in	Double	28, 29	12F852
6 in	Double	47, 48	12F856
8 in	Double	23, 25	12F853
8 in	Double	40, 42	12F857
10 in	Double	20, 21	12F854
12 in	Double	18, 19	12F855
Spot Welder Tip Files			
10 in	Bastard	20	30PA64
Square Files			
4 in	Bastard	43, 44	12F790
4 in	Second	58, 60	12F796
4 in	Smooth	76, 77	12F803
6 in	Bastard	33, 35	12F791
6 in	Second	43, 44	12F797
6 in	Smooth	57, 58	12F804
8 in	Bastard	26, 27	12F792
8 in	Second	37, 38	12F798
8 in	Smooth	46, 47	12F805
10 in	Bastard	24, 25	12F793
10 in	Second	31, 33	12F799
10 in	Smooth	41, 43	12F806
12 in	Bastard	19, 20	12F794
12 in	Second	29, 30	12F801
12 in	Smooth	38, 39	12F807
13 ¾ in	Bastard	17	39CE64
14 in	Bastard	17, 18	12F795
Taper Files			
4 in	Slim	58, 63	26KP98
6 in	—	51	1NFT9
6 in	—	55	1NFV1
6 in	Slim	50, 55	26KR02
6 in	Extra Slim	55, 60	26KR06
6 in	Double Extra Slim	59	30PA48
Triangular Files			
4 in	Bastard/Double	49, 50	12F775
4 in	Single	58, 59	12F780
4 in	Single	63, 64	12F785
5 in	Single	46, 47	12F776
5 in	Single	54, 55	12F781
5 in	Single	60, 61	12F786
6 in	Bastard/Double	33, 35	12F766
6 in	Bastard/Double	47, 48	12F769
6 in	Bastard/Double	57, 58	12F772
6 in	Single	41, 42	12F777
6 in	Single	51, 52	12F782
6 in	Single	55, 56	12F787
7 in	Single	39, 40	12F778
7 in	Single	45, 46	12F783
7 in	Single	51, 52	12F788
8 in	Bastard/Double	25, 27	12F767
8 in	Bastard/Double	37, 39	12F770
8 in	Bastard/Double	46, 47	12F773
8 in	Single	34, 34.5	12F779
8 in	Single	42, 43	12F784
8 in	Single	49, 50	12F789
10 in	Bastard/Double	23, 24	12F768
10 in	Second/Double	33, 35	12F771
10 in	Bastard/Double	41, 42	12F774
Warding Files			
4 in	Bastard/Smooth	50, 52	10Z727
4 in	Second	68, 70	10Z731
4 in	Smooth	84, 86	10Z735
4 in	Bastard	50, 55	26KP93
6 in	Bastard/Smooth	41, 43	10Z728
6 in	Second	55, 57	10Z732
6 in	Smooth	68, 70	10Z736
8 in	Bastard/Smooth	34, 36	10Z729
8 in	Second	46, 48	10Z733
8 in	Smooth	56, 58	10Z737
10 in	Bastard/Smooth	28, 31	10Z730
10 in	Second	37, 39	10Z734
10 in	Smooth	45, 48	10Z738

Handy File
1NFV3

Thread Restoring File Set
3MD33

Diamond-Coated Habilis File
31LX73

WESTWARD NICHOLSON Strauss Diamond Instruments Inc.

Specialty Files

Diamond-coated files are used for cutting or grinding hard, brittle, and abrasive materials. Diamond enables faster operation, extends tool life, and allows very accurate tolerances of shape and size.

Note: Diamond files are not suitable for grinding high-carbon steel.

Description	L	Brand	Mfr. Model	Item No.
Chainsaw Files - American Pattern				
1/8"-dia.	6 in	Westward	—	**12F759**
5/32"-dia.	6 in	Westward	—	**12F760**
3/16"-dia.	8 in	Westward	—	**12F761**
7/32"-dia.	8 in	Westward	—	**12F762**
1/4"-dia.	8 in	Westward	—	**12F763**
5/16"-dia.	8 in	Westward	—	**12F764**
3/8"-dia.	8 in	Westward	—	**12F765**
Handy - American Pattern				
Rectangular With Round On Top	7 3/4 in	Westward	—	**1NFV3**
Thread Restoring Files				
Regular Bolt	8 1/2 in	Nicholson	T33001	**3MD29**
Extra Fine/Extra Coarse Bolt	8 1/2 in	Nicholson	T33007	**3MD30**
Metric Bolt	8 1/2 in	Nicholson	T33016	**3MD32**
Thread Restoring File Set, 4 Pc. Roll-Up Pouch Including Type-1 - Regular Bolt 11, 12, 13, 14, 16, 18, 20, 24 TPI; Type 2 - Fine/Ex. Course Bolt 9, 10, 12, 16, 20, 27, 28, 32 TPI; Type 7 - Regular Pipe 8, 10, 11 1/2, 14, 16, 18, 24, 27 TPI; Type 8 - Metric Bolt, #7 File for Regular Pipe Thread 80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00mm	8 3/8 in	Nicholson	T33024	**3MD33**
Diamond-Coated Files				
Escapement Files - Swiss Pattern				
Barrette, Diamond Grit Cut	5 1/2 in	Strauss	MI8610D126	**31LX38**
Barrette, Smooth Cut	5 1/2 in	Strauss	MI8610D91	**31LX40**
Barrette, Coarse Cut	5 1/2 in	Strauss	MI8610D181	**31LX39**
Crossing, Diamond Grit Cut	5 1/2 in	Strauss	MI8609D126	**31LX41**
Crossing, Smooth Cut	5 1/2 in	Strauss	MI8609D91	**31LX42**
Crossing, Coarse Cut	5 1/2 in	Strauss	MI8609D181	**31LX43**
Equalling, Diamond Grit Cut	5 1/2 in	Strauss	MI8617D126	**31LX45**
Equalling, Smooth Cut	5 1/2 in	Strauss	MI8617D91	**31LX46**
Equalling, Coarse Cut	5 1/2 in	Strauss	MI8617D181	**31LX44**
Half Round, Diamond Grit Cut	5 1/2 in	Strauss	MI8608D126	**31LX58**
Half Round, Smooth Cut	5 1/2 in	Strauss	MI8608D91	**31LX47**
Half Round, Coarse Cut	5 1/2 in	Strauss	MI8608D181	**31LX48**
Round, Diamond Grit Cut	5 1/2 in	Strauss	MI8621D126	**31LX49**
Round, Smooth Cut	5 1/2 in	Strauss	MI8621D91	**31LX50**
Round, Coarse Cut	5 1/2 in	Strauss	MI8621D181	**31LX51**
Square, Diamond Grit Cut	5 1/2 in	Strauss	MI8619D126	**31LX52**
Square, Smooth Cut	5 1/2 in	Strauss	MI8619D91	**31LX53**
Square, Coarse Cut	5 1/2 in	Strauss	MI8619D181	**31LX54**
Three Square, Diamond Grit Cut	5 1/2 in	Strauss	MI8614D126	**31LX55**
Three Square, Smooth Cut	5 1/2 in	Strauss	MI8614D91	**31LX56**
Three Square, Coarse Cut	5 1/2 in	Strauss	MI8614D181	**31LX57**
Habilis Files - Swiss Pattern				
Equalling, Diamond Grit Cut	8 21/32 in	Strauss	HB2601D126	**31LX59**
Equalling, Smooth Cut	8 21/32 in	Strauss	HB2601D91	**31LX60**
Equalling, Coarse Cut	8 21/32 in	Strauss	HB2601D181	**31LX61**
Half Round, Diamond Grit Cut	8 21/32 in	Strauss	HB2602	**31LX62**
Half Round, Smooth Cut	8 21/32 in	Strauss	HB2602D91	**31LX63**
Half Round, Coarse Cut	8 21/32 in	Strauss	HB2602D181	**31LX64**
Round, Diamond Grit Cut	8 21/32 in	Strauss	HB2610D126	**31LX65**
Round, Smooth Cut	8 21/32 in	Strauss	HB2610D91	**31LX66**
Round, Coarse Cut	8 21/32 in	Strauss	HB2610D181	**31LX67**
Square, Diamond Grit Cut	8 21/32 in	Strauss	HB2608D126	**31LX68**
Square, Smooth Cut	8 21/32 in	Strauss	HB2608D91	**31LX69**
Square, Coarse Cut	8 21/32 in	Strauss	HB2608D181	**31LX70**
Three Square, Diamond Grit Cut	8 21/32 in	Strauss	HB2607D126	**31LX71**
Three Square, Smooth Cut	8 21/32 in	Strauss	HB2607D91	**31LX72**
Three Square, Coarse Cut	8 21/32 in	Strauss	HB2607D181	**31LX73**
Needle Files - Swiss Pattern				
Barrette, Smooth Cut	5 1/2 in	Strauss	NF2102TD126	**31LX95**
Barrette, Smooth Cut	5 1/2 in	Strauss	NF2102TD91	**31LX96**
Barrette, Coarse Cut	5 1/2 in	Strauss	NF2102TD181	**31LX97**
Crossing, Diamond Grit Cut	5 1/2 in	Strauss	NF2192D126	**31LY02**
Crossing, Smooth Cut	5 1/2 in	Strauss	NF2192D91	**31LY03**
Crossing, Coarse Cut	5 1/2 in	Strauss	NF2192D181	**31LY04**
Equalling, Smooth Cut	5 1/2 in	Strauss	NF2112D126	**31LY05**
Equalling, Smooth Cut	5 1/2 in	Strauss	NF2112D91	**31LY06**
Equalling, Coarse Cut	5 1/2 in	Strauss	NF2112D181	**31LY07**
Half Round, Diamond Grit Cut	5 1/2 in	Strauss	NF2152D126	**31LY11**
Half Round, Smooth Cut	5 1/2 in	Strauss	NF2152D91	**31LY12**
Half Round, Coarse Cut	5 1/2 in	Strauss	NF2152D181	**31LY13**
Knife, Diamond Grit Cut	5 1/2 in	Strauss	NF2172D126	**31LY14**
Knife, Smooth Cut	5 1/2 in	Strauss	NF2172D91	**31LY15**
Knife, Coarse Cut	5 1/2 in	Strauss	NF2172D181	**31LY16**
Round, Diamond Grit Cut	5 1/2 in	Strauss	NF2162D126	**31LY17**
Round, Smooth Cut	5 1/2 in	Strauss	NF2162D91	**31LY18**
Round, Coarse Cut	5 1/2 in	Strauss	NF2162D181	**31LY19**
Slitting, Diamond Grit Cut	5 1/2 in	Strauss	NF2182D126	**31LY20**
Slitting, Smooth Cut	5 1/2 in	Strauss	NF2182D91	**31LY21**
Slitting, Coarse Cut	5 1/2 in	Strauss	NF2182D181	**31LY22**
Square, Diamond Grit Cut	5 1/2 in	Strauss	NF2142D126	**31LY23**
Square, Smooth Cut	5 1/2 in	Strauss	NF2142D91	**31LY24**
Square, Coarse Cut	5 1/2 in	Strauss	NF2142D181	**31LY25**
Three Square, Diamond Grit Cut	5 1/2 in	Strauss	NF2132D126	**31LY26**
Three Square, Smooth Cut	5 1/2 in	Strauss	NF2132D91	**31LY27**
Three Square, Coarse Cut	5 1/2 in	Strauss	NF2132D181	**31LY28**
Warding, Diamond Grit Cut	5 1/2 in	Strauss	NF2122D126	**31LY29**
Warding, Smooth Cut	5 1/2 in	Strauss	NF2122D91	**31LY30**
Warding, Coarse Cut	5 1/2 in	Strauss	NF2122D181	**31LY31**

No. of Pieces	Cut Type	Shape	Brand	Mfr. Model	Item No.
Habilis File Sets					
5	Standard	Equalling, Three Square, Square, Half Round, Round	Strauss	HB2627D126	**31LY32**
5	Smooth	Equalling, Three Square, Square, Half Round, Round	Strauss	HB2627D91	**31LY33**
5	Coarse	Equalling, Three Square, Square, Half Round, Round	Strauss	HB2627D181	**31LY34**
Needle File Sets					
5	Standard	Equalling, Three Square, Square, Half Round, Round	Strauss	NF4205D126	**31LY35**
5	Smooth	Equalling, Three Square, Square, Half Round, Round	Strauss	NF4205D91	**31LY36**
5	Coarse	Equalling, Three Square, Square, Half Round, Round	Strauss	NF4205D181	**31LY37**
6	Standard	Equalling, Three Square, Square, Half Round, Round, Crossing	Strauss	NF4206D126	**31LY38**
6	Smooth	Equalling, Three Square, Square, Half Round, Round, Crossing	Strauss	NF4206D91	**31LY39**
6	Coarse	Equalling, Three Square, Square, Half Round, Round, Crossing	Strauss	NF4206D181	**31LY40**
Escapement File Sets					
5	Standard	Half Round, Three Square, Equalling, Square, Round	Strauss	MI8632D126	**31LY42**
5	Smooth	Half Round, Three Square, Equalling, Square, Round	Strauss	MI8632D91	**31LY43**
5	Coarse	Half Round, Three Square, Equalling, Square, Round	Strauss	MI8632D181	**31LY44**

File Holder
10Z605

Wood File Handle, Nickel-Plated
1G480

Plastic File Handle
2H063

File Cleaner
1G492

File Handles and Cleaners

WESTWARD NICHOLSON

Description	Brand	Item No.
Aluminum File Holder		
For Use with Milled Tooth Files	Westward	**10Z605**
Wood File Handles - Nickel-Plated		
For Use With 3¾": 4" Tapered; 4" to 7" Slim; 4" to 8" X Slim; 5" to 8" XX Slim; 4" Round; 4" to 6" Square; 8" Chainsaw	Nicholson	**1G488**
For Use With 10 in Cantsaw, 10 in Half Round, 10 in Hand, 10 in Knife, 10 in Taper, 10 in Warding, 12 in Round, 12 in Square, 8 in Crosscut, 8 in Hand, 9 in Taper	Nicholson	**1G482**
For Use With 10 in Crosscut, 10 in Flat, 10 in Mill, 12 in Flat, 12 in Hand, 12 in Knife, 12 in Mill, 14 in Round, 14 in Square	Nicholson	**1G480**
Plastic File Handles		
For Use With 4 in Round, 4 in Square, 4 in Triangular, 5 in Round, 5 in Square, 5 in Triangular	Nicholson	**2H059**
For Use With 4 in Flat, 4 in Half Round, 4 in Hand, 4 in Knife, 4 in Mill, 4 in Warding, 6 in Round, 6 in Square, 6 in Triangular	Nicholson	**2H061**
For Use With 10 in Round, 10 in Square, 6 in Cantsaw, 6 in Flat, 6 in Half Round, 6 in Hand, 6 in Knife, 6 in Mill, 6 in Warding, 8 in Round, 8 in Square, 8 in Triangle, 8 in Warding	Nicholson	**2H063**
For Use With 10 in Flat, 10 in Knife, 10 in Mill, 10 in Triangular, 10 in Warding, 12 in Round, 12 in Square, 8 in Cantsaw, 8 in Crosscut, 8 in Flat, 8 in Half Round, 8 in Hand, 8 in Knife, 8 in Mill	Nicholson	**2H065**
For Use With 10 in Cantsaw, 10 in Crosscut, 10 in Half Round, 10 in Hand, 12 in Flat, 12 in Knife, 12 in Mill, 12 in Triangular, 14 in Square	Nicholson	**2H067**
For Use With 12 in Half Round, 12 in Hand, 14 in Flat, 14 in Mill, 14 in Round, 14 in Triangular, 16 in Round	Nicholson	**2H069**
Ergonomic, Soft Rubber Grip Handle		
4 9/16" File Handle w/(5) 1 7/8" Rubber Inserts	Westward	**1NFW5**
File Cleaners		
10" File Card	Nicholson	**2A509**
10" File Card & Brush	Nicholson	**1G492**
File Cleaner w/Handle	Westward	**26KR07**

2AJK7

2AJL3

2AJL9

22N850

2AJB2

5ME53

Punch and Chisel Sets

STANLEY · WESTWARD · PROTO · GENERAL · MAYHEW

- See Grainger.com for specific sizes in each set

COLD CHISEL SETS

Remove or cut metal softer than the cutting edge itself.

NAIL SETS

Square head prevents rolling. Fully hardened precision-milled steel. 3ML05 has color-coded tools with shock-absorbing cushioned ribbed grip.

PUNCH SETS

Drift—Use for aligning holes, usually in metal. Also called aligning punches.

Pin—Drive pins, bolts, and rivets out of holes. Chamfer on struck-end helps reduce mushrooming and chipping. Identification panel marked with punch size. Solid punch for hole alignment.

Hollow—For punching holes in leather, rubber, canvas, cardboard, plastic, gasket material, and sheet metal.

Arch—Inside taper for clearance.

Transfer—Undersized by 0.0025". A matched set of precision-transfer punches allows the transferring of threaded, drilled, or reamed holes.

PUNCH AND CHISEL SETS

Packaged in a reusable vinyl pouch.

No. of Pieces	Description	Range of Sizes	Brand	Item No.
Chisel Sets				
3	Wood Chisel Set	½ - 1 in	STANLEY	**6AUF9**
3	Wood Chisel Set		Westward	**4YR15**
4	Handguarded Chisel Set	¾ - 3½ in	Westward	**2AJK7**
5	Cold Chisel Set w/Tool Roll Pouch	5/16 - ⅝ in	Proto	**3R152**
5	Super-Duty Cold Chisel Set w/Tool Roll Pouch	⅜ - ⅞ in	Proto	**1Q947**
5	Super Duty Cold Chisel Set w/Pouch	⅜ - ⅞ in	Westward	**2AJL5**
5	S2 Cold Chisel Set w/3/8 in, 5/16 in, ⅝ in, 7/16 in, Cold Chisel: ½ in	5/16 - ⅝ in	Proto	**6DJZ1**
7	Cold Chisel Set w/Tool Roll Pouch	5/16 - ⅞ in	Proto	**3R151**
7	Cold Chisel Set	¼ - ⅞ in	Westward	**2AJA6**
7	S2 Cold Chisel Set w/3/4 in, ⅜ in, 5/16 in, ⅝ in, 7/16 in, ⅞ in, Cold Chisel: ½ in	5/16 - ⅞ in	Proto	**6DJZ0**
9	Wood Chisel Set	¼ - 2 in	Westward	**4YR17**
Nail Sets				
3	Square Head Nail Set	1/32 - 3/32 in	STANLEY	**5C574**
3	Cushion Grip Nail Set	1/32 - 3/32 in	STANLEY	**3ML05**
Punch Sets				
3	Brass Drift Punch Set	⅜ - ¾ in	Westward	**2AJL3**
3	Brass Drift Punch Set w/Tool Roll Pouch	⅜ - ¾ in	Proto	**6DJR6**
3	Brass Demolition Punch Set w/Tool Roll Pouch	⅜ - ¾ in	Proto	**6DJT0**
5	Drift Punch Set	⅛ - 5/16 in	Westward	**2AJL6**
5	Drift Punch Set w/Tool Roll Pouch	¼ - ½ in	Proto	**3R161**
5	S2 Drift Punch Set w/1/8 in, 3/16 in, 5/16 in, 7/32 in, Drift Punch: ¼ in Pouch	⅛ - 5/16 in	Proto	**6DJZ3**
5	Long Drive Pin Punch Set (1-pc. Design) w/Tool Roll Pouch	5/32 - 5/16 in	Proto	**1Q736**
5	Long Drive Pin Punch Set	⅛ - ⅜ in	Westward	**2AJB1**
5	S2 Drive Pin Punch Set w/3/16 in, 5/16 in, 5/32 in, 7/32 in, Pin Punch: ¼ in Pouch	5/32 - 5/16 in	Proto	**6DJZ4**
6	Pin Punch Set	3/32 - 5/16 in	Westward	**2AJA7**
6	Pin Punch Set	⅛ - 5/16 in	Westward	**2AJA9**
6	Hollow Punch Set	3/16 - ½ in	General	**3ZG93**
7	Drift Punch Set w/Tool Roll Pouch	3/32 - ⅜ in	Proto	**3R160**
7	S2 Drift Punch Set w/1/8 in, 3/16 in, 3/32 in, ⅜ in, 5/16 in, 7/32 in, Drift Punch: ¼ in Pouch	3/32 - ⅜ in	Proto	**6DJZ2**
7	Pin Punch Set	1/16 - 5/16 in	Westward	**2AJA8**
7	Super Duty Pin Punch Set	1/16 - 5/16 in	Westward	**2AJL4**
7	S2 Pin Punch Set w/Tool Roll Pouch	1/16 - ¼ in	Proto	**3R111**
7	Super-Duty S2 Pin Punch Set w/Tool Roll Pouch	1/16 - ¼ in	Proto	**1Q737**
7	Roll Pin Punch Set (1-pc. Design) w/Tool Roll Pouch	1/16 - ¼ in	Proto	**1Q754**
7	Roll Pin Punch Set	1/16 - 5/16 in	Westward	**2AJL9**
7	S2 Roll Pin Punch Set w/1/16 in, ⅛ in, 3/16 in, 3/32 in, 5/32 in, 7/32 in, Roll Pin Punch: ¼ in Pouch	1/16 - ¼ in	Proto	**6DJZ6**
7	7-pc. Arch Punch Set	¼ - 1 in	General	**3ZG91**
12	Roll Pin Punch Set	1/16 - ½ in	Westward	**49A456**
16	Hollow Punch Set	⅛ - 1 3/16 in	Mayhew	**5MM17**
Transfer Sets				
25	Transfer Punch Set	1 - 13mm	Westward	**22N847**
26	Transfer Punch Set	A- Z	Westward	**22N848**
28	Transfer Punch Set	3/32 - 17/32 in	Westward	**22N849**
33	Transfer Punch Set	½ - 1 in	Westward	**22N850**
60	Transfer Punch Set	#1 - #60	Westward	**22N851**

No. of Pieces	Sizes Included	Brand	Item No.
Punch and Chisel Sets			
3	½, ¾, and 1 in	STANLEY	**5ME52**
5	S2 Center Punch-3/8 in, S2 Drive-Pin Punch-1/8, 3/16 in, S2 Starting Punch-1/8 in, S2 Cold Chisel-5/8 in	Proto	**6DJY9**
5	Center Punch-3/8 in, Drive-Pin Punch-1/8, 3/16 in, Starting Punch-1/8 in, Cold Chisel-5/8 in	Proto	**3R077**
6	¼, ½, ¾, 1, 1¼, and 1½ in	STANLEY	**5ME53**
7	Flat Chisel: ½, ⅝, ¾ in ; Starting Punch: 3/16, ¼ in ; Pin Punch: 3/16 in ; Center Punch: ⅜ in	Westward	**2AJB3**
12	Flat Chisel: ⅜, ½, ⅝ in ; Starting Punch: ⅛, 3/16, ¼ in ; Pin Punch: ⅛, 5/32, 3/16 in ;Center Punch: ⅜,1/2 in ; Prick Punch: 3/16 in	Westward	**2AJB4**
12	Center Punch-3/8 in, Drive Pin Punch-3/32, ⅛, 3/16 in, Starting Punch-1/16, ⅛, 3/16 in, Cape Chisel-5/16 in, Diamond Point Chisel-3/16 in, Cold Chisel-5/16, 7/16, ½ in	Proto	**3R074**
12	S2 Center Punch-3/8 in, S2 Drive Pin Punch-3/32, ⅛, 3/16 in, S2 Starting Punch-1/16, ⅛, 3/16 in, S2 Cape Chisel-7/32 in, S2 Diamond Point Chisel-3/16 in, S2 Cold Chisel-5/16, 7/16, ½ in	Proto	**6DJY8**
14	Flat Chisel: ½, ⅝, ¾, ⅞, 1 in ; Starting Punch: ⅛, 3/16, ¼, ⅜ in ; Pin Punch: 3/32, ⅛, 3/16, ¼ in ; Center Punch: ⅜ x ½ in	Westward	**2AJB2**
18	Drive Pin Punch: ⅛, 5/32, 3/16, ¼ in ; Starting Punch: 3/32, ⅛, 3/16, ¼ in ; Cold Chisel: ⅜, ½, ⅝, ¾, ⅞ in ; Drift Punch: ⅛, 3/16, ¼, 5/16 in ; Center Punch: ⅜ in	Westward	**2AJL7**
26	Drive Pin Punch: 1/16, ⅛, 5/32, 3/16, 7/32, ¼ in ; Starting Punch: 3/32, ⅛, 3/16, ⅜, ¼ in; Cold Chisel: ¼, 5/16, ⅜, ½, ⅝, ¾, 13/16, ⅞, 1 in ; Drift Punch: ⅛, 3/16, ¼ in ; Center Punch: ⅜, ½ in ; Prick Punch: 3/16 in	Westward	**2AJL8**
26	S2 Drive Pin Punch-3/32, ⅛, 5/32, 3/16, 7/32, ¼ in, S2 Starting Punch-3/32, ⅛, 3/16, 7/32, ¼ in, S2 Cold Chisel-1/4, 5/16, ⅜, ½, ⅝, ¾, ⅞, 1, 1 3/16 in, S2 Drift Punch-1/8, 3/16, ¼ in, S2 Center Punch-3/8, ½ in, S2 Prick Punch-5/16 in	Proto	**6DJZ7**

Drive Pin, 1-Pc.
2AJD5

Roll Pin
2AJF6

Punches

PROTO STANLEY WESTWARD

Tip Size (In.)	Hex (in.)	Overall Length (In.)	Brand	Item No.	
Aligning Punches					
3/16	19/32	16	Proto	6DJV6	
⅜	—	10	Proto	6XVR8	
7/16	—	14	Proto	6XVR9	
Center Punches					
—	—	4 ½	STANLEY	6AUD7	
1/16	3/16	4 ¼	Westward	2AJC6	
3/32	¼	4 ¼	Westward	2AJC7	
5/32	5/16	4 ¾	Westward	2AJC8	
3/16	⅜	5	Westward	2AJC9	
¼	—	4	STANLEY	6AUD6	
¼	7/16	5 ¼	Westward	2AJD1	
⅜	—	4 ¾	Proto	6DJV8	
⅜	—	5	Proto	6DJV9	
⅜	½	6	Westward	2AJD2	
⅜	⅝	6 ¼	Westward	2AJD3	
7/16	—	5 ¼	Proto	6DJW2	
½	⅝	7	Westward	2AJD4	
⅝	—	4 ¾	Proto	6DJW0	
⅝	—	5 ¾	Proto	6DJV7	
⅝	—	6 ¼	Proto	6DJW1	
Drift Punches					
⅛	5/16	10	Westward	2AJC1	
⅛	5/16	10	Proto	3R154	
3/16	⅜	10	Westward	2AJC2	
3/16	⅜	10	Proto	3R155	
3/16	⅜	10	Proto	6DJY4	
¼	½	10	Westward	2AJC3	
¼	½	10	Proto	3R157	
5/16	19/32	10	Proto	3R158	
5/16	⅝	10	Westward	2AJC4	
⅜	23/32	10	Proto	3R159	
⅜	¾	10	Westward	2AJC5	
⅜	¾	10	Proto	6DJY3	
½	½	8	Proto	1Q802	*
¾	—	8	Proto	6XVT0	
¾	—	12	Proto	6XVR7	
Drive Pin Punches - 1-piece					
1/16	¼	4 ¼	Proto	1Q742	
1/16	¼	4 ½	Westward	2AJD5	
3/32	¼	4 ½	Proto	1Q745	
3/32	5/16	4 ½	Westward	2AJD6	
⅛	5/16	4 ¾	Westward	2AJD7	
⅛	5/16	4 ¾	Proto	1Q740	
5/32	5/16	5	Proto	1Q748	
5/32	5/16	5	Westward	2AJD8	
3/16	⅜	5 ¼	Proto	1Q743	
3/16	⅜	5 ¼	Westward	2AJD9	
7/32	7/16	5 ½	Proto	1Q751	
7/32	7/16	5 ½	Westward	2AJE1	
¼	7/16	5 ¾	Proto	1Q738	
¼	7/16	5 ¾	Westward	2AJE2	
5/16	½	6 ¼	Proto	1Q746	
5/16	½	6	Westward	2AJE3	
⅜	⅝	6 ½	Proto	1Q741	
Drive Pin Punches - 2-piece					
3/32	¼	4 ¾	Proto	3R113	
⅛	5/16	5 ¼	Proto	3R114	
3/16	⅜	6	Proto	3R116	
¼	½	6 ¾	Proto	3R118	
Extra Long Alignment Punches					
3/16	⅝	16	Westward	2AJB5	
3/16	⅝	16	Proto	3R094	
¼	¾	18	Westward	2AJB7	
5/16	¾	18	Westward	2AJB6	
½	⅞	18	Westward	2AJB8	
⅝	⅞	21	Westward	2AJB9	
Long Drive Pin Punches					
⅛	⅜	8	Westward	2AJE4	
5/32	⅜	8	Proto	1Q749	
5/32	⅜	8	Westward	2AJE5	
5/32	⅜	8	Proto	35XT09	
3/16	⅜	8	Westward	2AJE6	
3/16	⅜	8	Proto	35XT10	
7/32	7/16	8	Proto	1Q752	
¼	⅜	8	Westward	2AJE7	
¼	½	8	Proto	1Q739	
5/16	½	8	Proto	1Q747	
5/16	½	8	Westward	2AJE8	
5/16	½	8	Proto	35XT13	
⅜	½	8	Westward	2AJE9	
Pin Punches					
5/32	5/16	5 ¼	Proto	6DJX3	
3/16	⅜	5 ½	Proto	6DJX1	

** 1Q802 is nonsparking and nonmarring.*

Tip Size (In.)	Hex (in.)	Overall Length (In.)	Brand	Item No.
Prick Punches				
5/32	5/16	5	Westward	2AJF1
3/16	⅜	5 ¼	Westward	2AJF2
Roll Pin Punches				
1/16	¼	3 ¾	Proto	1Q762
1/16	¼	3 ¾	Westward	2AJF6
3/32	¼	4 ¼	Proto	1Q764
3/32	¼	4 ¼	Westward	2AJF7
⅛	5/16	4 ¾	Proto	1Q760
⅛	5/16	4 ¾	Westward	2AJF8
5/32	5/16	5 ¼	Proto	1Q768
5/32	5/16	5 ¼	Westward	2AJF9
3/16	⅜	5 ½	Proto	1Q763
3/16	⅜	5 ½	Westward	2AJG1
7/32	⅜	6	Proto	1Q775
7/32	⅜	6	Westward	2AJG2
¼	7/16	6 ½	Proto	1Q759
¼	7/16	6 ½	Westward	2AJG3
5/16	7/16	7	Westward	2AJG4
⅜	½	7 ½	Proto	1Q761
⅜	½	7 ½	Westward	2AJG5
Starting Punches				
1/16	¼	4	Westward	2AJF3
⅛	5/16	5	Westward	2AJF4
⅛	5/16	5 ¼	Proto	3R121
3/16	⅜	6	Westward	2AJF5
¼	½	6 ½	Proto	3R124
Transfer Punches				
3/32	—	5	Westward	22N787
7/64	—	5	Westward	22N788
⅛	—	5	Westward	22N789
9/64	—	5	Westward	22N790
5/32	—	5	Westward	22N791
11/64	—	5	Westward	22N792
3/16	—	5	Westward	22N793
13/64	—	5	Westward	22N794
7/32	—	5	Westward	22N795
15/64	—	5	Westward	22N796
¼	—	5	Westward	22N797
17/64	—	5	Westward	22N798
9/32	—	5	Westward	22N799
19/64	—	5	Westward	22N801
5/16	—	5	Westward	22N802
21/64	—	5	Westward	22N803
11/32	—	5	Westward	22N804
23/64	—	5	Westward	22N805
⅜	—	5	Westward	22N806
25/64	—	5	Westward	22N807
13/32	—	5	Westward	22N808
27/64	—	5	Westward	22N809
7/16	—	5	Westward	22N810
29/64	—	5	Westward	22N811
15/32	—	5	Westward	22N812
31/64	—	5	Westward	22N813
½	—	5	Westward	22N814
33/64	—	5	Westward	22N815
17/32	—	5	Westward	22N816
35/64	—	5	Westward	22N817
9/16	—	5	Westward	22N818
37/64	—	5	Westward	22N819
19/32	—	5	Westward	22N820
39/64	—	5	Westward	22N821
⅝	—	5	Westward	22N822
41/64	—	5	Westward	22N823
21/32	—	5	Westward	22N824
43/64	—	5	Westward	22N825
11/16	—	5	Westward	22N826
45/64	—	5	Westward	22N827
23/32	—	5	Westward	22N828
47/64	—	5	Westward	22N829
¾	—	5	Westward	22N830
49/64	—	5	Westward	22N831
25/32	—	5	Westward	22N832
51/64	—	5	Westward	22N833
13/16	—	5	Westward	22N834
53/64	—	5	Westward	22N835
27/32	—	5	Westward	22N836
55/64	—	5	Westward	22N837
⅞	—	5	Westward	22N838
57/64	—	5	Westward	22N839
29/32	—	5	Westward	22N840
59/64	—	5	Westward	22N841
15/16	—	5	Westward	22N842
61/64	—	5	Westward	22N843
31/32	—	5	Westward	22N844
63/64	—	5	Westward	22N845
1	—	5	Westward	22N846

Brick Chisel
2AJJ8

Cape Chisel
6DJT2

Cold Chisel
2AJG6

Wood Chisel
6DJP8

Super-Duty
Cold Chisel
2AJH6

WESTWARD PROTO MAYHEW STANLEY DASCOPRO Quality Tools Since 1922 DEWALT

Chisels

Cape—Cut keyways and slots in metal.

Cold—Cut any cold metal softer than the chisel itself, such as wrought iron, cast iron, steel, brass, bronze, copper, aluminum, bolts, nuts, and rivets.

Diamond Point—Cut V-grooves and clean out inside corners.

Super-Duty Cold—Longer shank features a knurl for better grip. Polished identification panel is marked with tool number and size. Black oxide finish.

Tip Size	L	Brand	Item No.	
Brick Chisels				
3 in	7 ½ in	Westward	2AJJ8	*
1 in	8 in	Westward	2AJJ6	*
1 in	12 in	Westward	2AJJ7	*
Cape Chisels				
3/16 in	4 ⅝ in	Proto	6DJT2	
3/16 in	4 ⅝ in	Proto	3R125	
Cold Chisels				
¼ in	4 ⅞ in	Proto	3R139	
¼ in	5 in	Westward	2AJG6	
5/16 in	5 in	Westward	2AJG7	
5/16 in	5 ⅛ in	Proto	3R140	
⅜ in	5 ½ in	Westward	2AJG8	
⅜ in	5 ⅜ in	Proto	3R141	
7/16 in	5 9/16 in	Proto	3R142	
½ in	6 in	Westward	2AJG9	
½ in	6 in	Proto	3R143	
½ in	6 in	Proto	31CL33	
⅝ in	6 ½ in	Westward	2AJH1	
⅝ in	6 ¾ in	Proto	3R144	
¾ in	7 in	Westward	2AJH2	
¾ in	7 in	Proto	3R145	
¾ in	12 in	Proto	6XW21	
⅞ in	7 ½ in	Westward	2AJH3	
⅞ in	8 in	Proto	3R146	
⅞ in	12 in	Proto	6DJU5	
⅞ in	12 in	Proto	3R147	
1 in	8 in	Westward	2AJH4	
1 in	8 in	Proto	3R148	
1 in	12 in	Westward	2AJH5	
1 in	12 in	Proto	3R149	
1 in	18 in	Proto	6XW23	
1 3/16 in	8 ¼ in	Proto	3R150	
Cold Chisels, Demolition				
¼ in	5 in	Proto	6DJU4	
5/16 in	5 ⅛ in	Proto	6DJU2	
⅜ in	5 ⅜ in	Proto	6DJU8	
7/16 in	5 9/16 in	Proto	6DJU7	
½ in	6 in	Proto	6DJV1	
½ in	12 in	Proto	6DJV2	
⅝ in	7 in	Proto	6DJU0	
¾ in	7 in	Proto	6DJU9	
¾ in	12 in	Proto	6DJV0	
1 in	12 in	Proto	6DJV3	
1 3/16 in	8 ¼ in	Proto	6DJU3	
Cold Chisels, Handguard				
⅞ in	8 in	Westward	2AJJ4	*
⅞ in	12 in	Westward	2AJJ5	*
Diamond Point Chisels				
⅛ in	5 in	Mayhew	22KK55	
½ in	7 in	Mayhew	22KK56	
FATMAX Folding Pocket Chisel				
1 in	8½ in	STANLEY	48Z984	
FATMAX Wood Chisels				
¼ in	9 in	STANLEY	6AUJ2	
⅜ in	9 in	STANLEY	6AUJ3	
½ in	9 in	STANLEY	6DJP7	
⅝ in	9 in	STANLEY	6DJP8	
¾ in	9 in	STANLEY	6DJP9	
1 in	9 in	STANLEY	6DJR0	
1¼ in	9 in	STANLEY	6DJR1	
1½ in	9 in	STANLEY	6DJR2	
2 in	9 in	STANLEY	6DJR3	
Floor Chisels				
2½ in	10 in	Westward	24N082	
2½ in	10 ½ in	Westward	2AJJ9	*
Masons Chisels				
¾ in	12 in	Westward	2AJJ3	
2¼ in	7 ½ in	Westward	2AJK1	*
2¼ in	7 ½ in	Dasco Pro	40JC41	
Side Strike Chisel				
1 in	10 ¾ in	DeWalt	48Z983	
Super-Duty Cold Chisels				
⅜ in	6 in	Proto	1FJ99	
⅜ in	6 in	Westward	2AJH6	
½ in	6 13/16 in	Proto	1FK02	
½ in	6 ½ in	Westward	2AJH7	
⅝ in	7 ⅝ in	Proto	1FJ98	
⅝ in	7 in	Westward	2AJH8	
¾ in	7 ½ in	Westward	2AJH9	
¾ in	8 7/16 in	Proto	1FK01	
⅞ in	8 in	Westward	2AJJ1	
⅞ in	9 ¼ in	Proto	1FJ97	
1 in	9 in	Westward	2AJJ2	
1 in	10 1/16 in	Proto	1FK03	
Wood Chisels				
¼ in	9¼ in	STANLEY	6AUH0	
½ in	9¼ in	STANLEY	6AUH1	
¾ in	9¼ in	STANLEY	6AUH2	
1 in	9¼ in	STANLEY	6AUH3	
1¼ in	9¼ in	STANLEY	6AUH4	
1½ in	9¼ in	STANLEY	6AUH5	

** Ergonomic hand guard.*

Wrecking/Pry Bars, Nail Pullers and Sets

Overall Length	Bar Width	End Width	End Angle Style	Number of Nail Slots	Brand	Item No.
Aligning Pry Bars						
Chisel, Point End Style						
16 in	—	—	Offset, Straight	—	Westward	**3APX2**
18 in	—	—	Offset, Straight	—	Westward	**3APX3**
24 in	—	—	Offset, Straight	—	Westward	**3APX4**
30 in	—	—	Offset, Straight	—	Westward	**3APX5**
36 in	—	—	Offset, Straight	—	Westward	**3APX6**
Chisel End Style						
14 in	½ in	2 ¼ in	Offset, Straight	0	Mayhew	**38GN95**
16 in	⅝ in	2 ¾ in	Offset, Straight	0	Mayhew Pro	**41GK19**
18 in	⅝ in	⅝ in	Offset, Straight	0	Proto	**35GR50**
24 in	¾ in	¾ in	Offset, Straight	0	Proto	**35GR51**
	¾ in	⅞ in	Offset, Straight	0	Mayhew Pro	**41GK20**
30 in	⅞ in	2 ½ in	Offset, Straight	0	Mayhew Pro	**41GK21**
38 in	¾ in	1 in	Offset, Straight	0	Mayhew	**4WMD9**
42 in	⅞ in	1 in	Offset, Straight	0	Mayhew	**4WME1**
Point End Style						
16 in	½ in	½ in	Offset, Straight	0	Proto	**3R547**
18 in	⅝ in	⅝ in	Offset, Straight	0	Proto	**3R548**
24 in	—	—	Straight	—	Westward	**31MA30**
	¾ in	¾ in	Offset, Straight	0	Proto	**3R549**
30 in	—	—	Straight	—	Westward	**31MA31**
	—	—	Straight	—	Westward	**31MA28**
	¾ in	⅞ in	Offset, Straight	0	Proto	**3R550**
36 in	—	—	Straight	—	Westward	**31MA29**
38 in	¾ in	⅞ in	Offset, Straight	0	Proto	**49XH91**
42 in	⅞ in	1 in	Offset, Straight	0	Proto	**49XH92**
60 in	1 in	1 ¼ in	Offset, Straight	0	Proto	**49XH93**
Decking & Pallet Bars						
Wedge End Style						
44 in	⅞ in	5 ½ in	Adjustable	0	Gearwrench	**56FM71**
Die-Separating Bars						
Chisel End Style						
18 in	—	—	U-Shape	—	Westward	**31MA37**
Point End Style						
18 in	⅝ in	8 in	U-Shape	0	Mayhew	**2KKV1**
30 in	⅝ in	2 ⅞ in	U-Shape	0	Mayhew	**2KKV2**
Digging Bars						
72 in	1 in	1 ¼ in	—	—	True Temper	**21YM26**
Flat Bars						
Chisel End Style						
16 in	¼ in	1 ¾ in	Gooseneck, Offset	3	STANLEY	**4HJ36**
Claw End Style						
7 in	⅛ in	3 ¼ in	Gooseneck, Offset	2	Crescent	**36M813**
8 in	—	—	Offset, U-Shape	3	Westward	**31MA25**
10 in	—	—	Gooseneck, Offset	1	Westward	**31MA27**
	5⁄16 in	3 ¼ in	L-Shape, Offset	2	Crescent	**36M817**
12 in	5⁄16 in	3 ¼ in	L-Shape, Offset	2	Crescent	**36M818**
13 in	¼ in	1 ¾ in	L-Shape, Offset	3	STANLEY	**6R311**
	¼ in	3 ¼ in	Gooseneck, Offset	2	Crescent	**36M814**
	¼ in	3 ¾ in	Offset	2	True Temper	**6DPW0**
14 in	—	—	U-Shape	3	Westward	**3FE94**
15 in	—	—	U-Shape	3	Westward	**31MA35**
	¼ in	3 ¼ in	Gooseneck, Offset	2	Crescent	**36M815**
21 in	1 ¾ in	1 ¾ in	Gooseneck, Offset	3	STANLEY	**6GRL7**
Double Claw End Style						
6 in	¼ in	¾ in	L-Shape, Offset	3	Dasco Pro	**18E839**
8 in	¾ in	1 in	L-Shape	3	Dasco Pro	**18E841**
12 in	½ in	2 in	L-Shape, Offset	3	Vaughan	**3NWD4**
Wedge End Style						
10 in	1 in	1 ¾ in	L-Shape	1	Dasco Pro	**18E847**
Nail Pullers						
Claw, Point End Style						
10 in	⅝ in	5 in	L-Shape	1	Mayhew	**6DKE3**
Claw End Style						
8 in	½ in	2 in	L-Shape, Offset	2	Vaughan	**6CLR9**
10 in	7⁄16 in	1 ¾ in	L-Shape, Offset	2	STANLEY	**5ME51**
	½ in	½ in	L-Shape, Offset	2	STANLEY	**16W837**
	¾ in	2 ½ in	L-Shape, Offset	2	Vaughan	**6CLT0**
11 in	¾ in	⅝ in	L-Shape, Offset	2	STANLEY	**6R299**
12 in	13⁄32 in	⅝ in	L-Shape, Offset	2	STANLEY	**5ME50**
15 in	⅝ in	5 ¼ in	L-Shape	2	Mayhew	**6DKE2**
Double Claw End Style						
11 in	—	—	Offset	2	Westward	**3FE96**
	1 in	2 in	L-Shape, Offset	2	Vaughan	**6CLV0**
12 in	¾ in	3 in	L-Shape, Offset	2	Vaughan	**6CLR8**
Pinch Bars						
Chisel, Point End Style						
14 in	½ in	2 ½ in	Straight	0	Mayhew	**6DKE4**
16 in	⅝ in	2 ¾ in	Straight	0	Mayhew	**6DKE5**
20 in	¾ in	3 in	Straight	0	Mayhew	**6DKE6**
Chisel End Style						
24 in	¾ in	⅞ in	Straight	0	Mayhew	**49C165**
30 in	¾ in	⅞ in	Straight	0	Mayhew	**49C164**
	⅞ in	1 in	Straight	0	Mayhew	**49C163**
36 in	⅞ in	1 in	Straight	0	Mayhew	**49C162**
51 in	—	—	Straight	—	Westward	**3FE95**
60 in	—	—	Straight	—	Westward	**3FE91**
Point End Style						
20 in	½ in	1 in	Offset	—	True Temper	**6DPV5**
24 in	1 ¼ in	1 ¼ in	Offset	—	True Temper	**6DPV6**
36 in	1 ⅛ in	1 ⅛ in	Straight	0	Lfi	**36HV53**
	1 in	1 ⅛ in	Straight	—	True Temper	**21YM27**
48 in	1 ⅛ in	1 ⅛ in	Straight	0	Lfi	**36HV52**
	1 in	1 in	Straight	—	True Temper	**6DPV7**
60 in	1 ¼ in	1 ¼ in	Straight	0	Lfi	**36HV51**
	1 ¼ in	1 ¼ in	Straight	0	Lfi	**36HV50**
	1 ¼ in	1 ¼ in	Straight	—	True Temper	**6DPV4**
	1 in	2 ¾ in	Offset	—	True Temper	**21YM29**
64 in	1 ⅜ in	1 ⅜ in	Straight	0	Lfi	**36HV55**
66 in	1 ½ in	1 ½ in	Straight	0	Lfi	**36HV54**
	1 ½ in	1 ½ in	Straight	—	True Temper	**21YM28**
Rolling-Head Pry Bars						
Chisel End Style						
18 in	⅝ in	3 in	L-Shape, Straight	0	Mayhew	**49C167**
22 in	¾ in	5 in	L-Shape, Straight	0	Mayhew	**49C168**
Claw, Point End Style						
12 in	—	—	L-Shape	0	Westward	**3APX7**
16 in	—	—	L-Shape	0	Westward	**3APX8**
20 in	—	—	L-Shape	0	Westward	**3APX9**
Double Claw End Style						
15 in	½ in	2 in	L-Shape, Offset	3	Vaughan	**3NWX7**
	½ in	2 in	L-Shape, Offset, U-Shape	3	Vaughan	**3NWD6**
21 in	½ in	2 in	L-Shape, Offset	3	Vaughan	**3NWD5**
Point End Style						
12 in	½ in	½ in	L-Shape	0	Proto	**5C930**
	½ in	2 in	L-Shape	0	Mayhew Pro	**41GK16**
16 in	⅝ in	⅝ in	L-Shape	0	Proto	**3R551**
	⅝ in	1 15⁄16 in	L-Shape	0	Mayhew Pro	**41GK17**
21 in	¾ in	2 5⁄16 in	L-Shape	0	Mayhew Pro	**41GK18**
Wedge End Style						
8 in	¼ in	4 in	Adjustable	0	Gearwrench	**9M623**
10 in	⅜ in	4 in	Adjustable	0	Gearwrench	**6NHL6**
16 in	⅜ in	5 ¼ in	Adjustable	0	Gearwrench	**8ME79**
24 in	⅞ in	6 in	Adjustable	0	Gearwrench	**8ME81**
33 in	⅞ in	6 in	Adjustable	0	Gearwrench	**8YTW9**
Screwdriver-Handle Pry Bars						
Chisel End Style						
10 in	⅜ in	1 ½ in	Offset	0	Dominator	**2KKW1**
12 in	⅜ in	1 ½ in	Offset	0	Dominator	**2KKW2**
	½ in	1 ½ in	Straight	0	Dominator	**2KKW3**
15 in	7⁄16 in	⅝ in	Offset	0	Proto	**1C050**
17 in	⅜ in	1 ½ in	Offset	0	Dominator	**2KKU5**
	⅜ in	1 ½ in	Straight	0	Dominator	**2KKW4**
18 in	7⁄16 in	⅝ in	Offset	0	Proto	**1C048**
	1 ¼ in	⅝ in	Offset	0	Proto	**35GR47**
25 in	½ in	1 ½ in	Offset	0	Dominator	**2KKU6**
	½ in	1 ½ in	Straight	0	Dominator	**2KKW5**
	½ in	1 ⅛ in	Straight	0	Mayhew	**6DKE9**
28 in	—	—	Straight	—	Westward	**31MA36**
	½ in	¾ in	Offset	0	Proto	**1C046**
	1 ¼ in	¾ in	Offset	0	Proto	**35GR48**
31 in	½ in	1 ½ in	Offset	0	Dominator	**2KKU7**
	½ in	7 ¾ in	Straight	0	Mayhew	**6DKF0**
32 in	½ in	¾ in	Offset	0	Proto	**1C044**
	1 ¼ in	¾ in	Offset	0	Proto	**35GR49**
44 in	⅞ in	1 15⁄16 in	Offset	0	Dominator	**2KKU1**
Wedge End Style						
12 in	11⁄16 in	11⁄16 in	Offset	0	Westward	**2AJK2**
18 in	25⁄32 in	13⁄16 in	Offset	0	Westward	**2AJK3**
24 in	25⁄32 in	13⁄16 in	Offset	0	Westward	**2AJK4**
Wrecking Bars						
Chisel, Claw End Style						
12 in	—	—	Gooseneck	1	Westward	**3FE97**
24 in	—	—	Gooseneck	1	Westward	**3FE90**
30 in	—	—	Gooseneck	1	Westward	**3FE93**
36 in	—	—	Offset	1	Westward	**3FE89**
Chisel End Style						
24 in	—	—	Offset	3	Westward	**31MA34**
36 in	¾ in	5 ¼ in	Gooseneck, Offset	2	True Temper	**6EUP1**
Claw End Style						
24 in	¾ in	1 ¾ in	Gooseneck, Offset	2	STANLEY	**5ME49**
36 in	1 ¾ in	1 ¾ in	Gooseneck, Offset	3	STANLEY	**6GRL2**
Double Claw End Style						
17 in	—	—	Offset	3	Westward	**3FE92**
Point End Style						
18 in	—	—	Offset	1	Westward	**31MA24**

No. of Pieces	Description	Includes	Brand	Item No.
Pry Bar Sets				
3	Aligning and Rolling Head Pry Bar Set	14 in and 20 in Aligning Pry Bars, 16 in Rolling Head Pry Bar	Mayhew	**2KKU9**
3	Aligning Pry Bar Set	12 in, 16 in, and 21 in Pry Bars	Mayhew	**2KKU8**
3	Curved Pry Bar Set	5½ in, 7 in, 9½ in Pry Bars	Westward	**31MA23**
3	Curved Pry Bar Set	12 in, 17 in, and 25 in Pry Bars	Mayhew	**5MM13**
3	Curved Pry Bar Set	12 in, 18 in, 25 in Pry Bars	Westward	**31MA32**
3	Curved Pry Bar Set	14 in, 16½ in, 20 in Pry Bars	Westward	**31MA40**
3	Curved Pry Bar Set, Ergonomic Handle	12 in, 17 in, and 25 in Pry Bars	Dominator	**2KKT7**
3	Ergonomic Handle Pry Bar Set	12 in, 17 in and 25 in Straight Tip Pry Bars	Dominator	**2KKV6**
3	Plastic Handle Pry Bar Set	12, 18, 24 in Pry Bars	Westward	**2AJL2**
3	Pry Bar Set	Sizes 12 in, 16 in, and 21 in	STANLEY	**23UC34**
3	Tethered		Proto	**40JD65**
4	Aligning and Rolling Head Pry Bar Set	18 in and 24 in Aligning Pry Bars, 12 in and 16 in Rolling Head Bars	Proto	**3R545**
4	Black Oxide Finish to Help Prevent Rust Corrosion, Extending Tool Life and Performance	Tether Ready Attachment Point	Proto	**40JD19**
4	Black Oxide Treated for Add Strength and Durability, Extruded Acetate Handles are Four Sided with Broad but Shallow Flutes, Impact Resistant, Resistant to Most Harsh Chemicals	Tether Ready Attachment Point	Proto	**40JD16**
4	Curved Pry Bar Set	18 in and 24 in Pry Bars, 12 in and 16 in Cat Bar	Westward	**31MA33**
4	Pry Bar Set	(4) Pieces, 16 in Line-Up Pry Bar, ⅝ in x 16 in Ladyfoot Pry Bar, 12-C Dominator Pry Bar, Mini Utility Pry Bar	Mayhew	**49C170**
4	Pry Bar Set	(4) Pieces ⅞ in x 18 in Cold Chisel, 14 in Line-Up Pry Bar, 20 in Line-Up Pry Bar, 16 in Rolling Head Pry Bar	Mayhew	**49C169**
4	Pry Bar Set	14½ in, 17½ in, 28 in, 31⅞ in	Proto	**23UC33**
4	Pry Bar Set	12 and 18 in Pry Bars, 15 in Flat Bar, 24 in Gooseneck Bar	Westward	**4PM09**
5	Pry Bar Set	5-C 10 in OAL, 7-C 12 in OAL, 12-C 17 in OAL, 18-C 25 in, and 24-C 31 in OAL Dominator Pry Bars, (1) Plastic Tray 34-34 in x 9¼ in	Mayhew	**49C172**

Telescoping Alligator Clip
1VTY5

Round w/ Release Handle
1VTX9

Fixed
3DYF3

Flexible
4FPU8

Telescoping
1VTZ6

Hang-Type Sweeper
2VAH2

Rectangular w/Release Handle
2VAG8

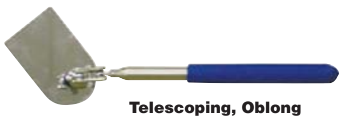
Retrieving Tools, Magnetic Pickups, and Magnetic Sweepers

Description	L (in.)	Jaw Cap. (in.)	Brand	Item No.
Retrieving Tools				
Flexible	13 ½ in	½ in	Proto	**5C590**
Flexible	23 ½ in	½ in	Proto	**5C591**
Flexible 4-Jaw	23 ½ in	1 in	Mag-Mate	**49L978**
Illuminated Claw Pickup Tool	22	½	Mayhew	**4KMG3**
Lighted	24 in	1 in	General	**8M725**
Lighted	36 in	1 in	General	**6TFG2**
Magnet, Mirror, Mechanical Finger Kit	7	1	Mag-Mate	**31LV23**
Magnetic	2121	—	Mag-Mate	**49L977**
Magnetic Pick-Up Tool	6 ½	—	Westward	**45KH16**
Magnetic Pick-Up Tool	7 ½	—	Westward	**45KH09**
Magnetic Spring Claw, Flexible, LED	25 ⅜	—	Ullman	**16W191**
Retrieving Magnet	16 ¾	—	Westward	**45KH11**
Retrieving Tool	24 ½ in	—	Proto	**4LT95**
Retrieving Tool, Bendable	23 ½ in	1 in	Westward	**45KH12**
Telescoping Alligator Clip	7 ⅜ in	⅜ in	Westward	**1VTY5**

Description	L	W	Dia.	Extended Length	Pull Capacity	Brand	Item No.
Magnetic Pickups							
Bendable	24 ⅛ in	—	—	—		Westward	**1VTZ7**
Cylinder Rod w/Release Handle	16 in	2 11/16 in	1 in	16 in		—	**3DYE2**
Cylinder Rod w/Release Handle	16 in	2 11/16 in	1 in	24 ¼ in		—	**3DYE1**
Fixed	2 in	2 in	—	—		—	**3DYF3**
Fixed	5 in	¾ in	—	—		—	**3DYE9**
Flexible	20 in	—	½ in	—		Westward	**4FPU8**
Flexible	23 in	—	—	23 in		Mayhew	**4KMG4**
Flexible	24 in	—	½ in	—		Westward	**4FPV5**
Flexible	29 in	—	½ in	—		Ullman	**16W186**
Floor Sweeper, Magnetic	5 in	28 ½ in	—	42 in		Mag-Mate	**36TV05**
Floor Sweeper, Magnetic	5 in	40 in	—	42 in		Mag-Mate	**36TV06**
Floor Sweeper, Magnetic	7 ½ in	29 ½ in	—	44 in		Mag-Mate	**36TV08**
Magnetic Pickup Attachment	4 in	—	3 ⅜ in	—		Westward	**4FPU7**
Magnetic Pick-Up Tool	37 in	3 ¼ in	3 ¼ in	37 in		Magnet Source	**38HY83**
Magnetic Pick-Up Tool	40 in	3 ¼ in	3 ¼ in	40 in		Mag-Mate	**31LV17**
Magnetic Pick-Up Tool, Flexible	27 ½ in	55 in	¾ in	55 in		Ullman Devices	**53PZ26**
Magnetic Pick-Up Tool, Flexible	29 in	—	—	29 in		Proto	**49XH72**
Magnetic Pick-Up Tool, Magnetic	5 ½ in	25 ½ in	—	25 ½ in		Proto	**49XH69**
Magnetic Pick-Up Tool, Magnetic	7 ¼ in	33 ¾ in	—	33 ¾ in		Proto	**49XH71**
Magnetic Pick-Up Tool, Magnetic	8 ¼ in	30 ¼ in	—	30 ¼ in		Proto	**49XH74**
Magnetic Pick-Up Tool, Magnetic	8 ¼ in	30 ¼ in	—	30 ¼ in		Proto	**49XH73**
Pocket-Size w/Clip	5 ½ in	—	¼ in	—		Westward	**1VTZ4**
Rectangular w/Release Handle	4 ¾ in	3 ¼ in	—	—		—	**2VAG4**
Rectangular w/Release Handle	4 ¾ in	3 ¼ in	—	—		—	**2VAG8**
Rectangular w/Release Handle	6 ¼ in	4 ¾ in	9 ¼ in	9 ¼ in		Westward	**2VAG5**
Rectangular w/Release Handle	8 ½ in	4 ¾ in	9 ¾ in	9 ¾ in		Westward	**2VAG6**
Round w/Release Handle	8 ¾ in	—	3 ½ in	—		Westward	**1VTX9**
Telescoping	6 ¼ in	—	—	25 in		Westward	**1VTX7**
Telescoping	6 ½ in	—	25/32 in	25 ½ in		Westward	**1VTZ9**
Telescoping	6 ⅝ in	—	½ in	33 ¼ in		Ullman	**16W181**
Telescoping	7 ½ in	—	—	32 in		Mayhew	**4KMG5**
Telescoping	7 ½ in	—	—	32 in		Mayhew	**4KMG7**
Telescoping	8 ¼ in	—	½ in	30 ¼ in		Ullman	**16W179**
Telescoping	8 ¼ in	—	½ in	30 ¼ in		Ullman	**16W183**
Telescoping	16 ¾ in	—	½ in	26 ¾ in		Proto	**5C598**
Telescoping	16 ¼ in	—	⅜ in	27 in		Westward	**1VTZ6**
Telescoping, Flexible	8 ¾ in	—	59/100 in	15 ¾ in		Westward	**4FPU6**
Telescoping, Swivel Head	7 ½ in	—	—	33 in		Mayhew	**4KMG6**
Telescoping Magnet/Mirror Set	6 ¾ in	—	¼ in	19 ½ in		Westward	**4FPV2**
Telescoping Magnet/Mirror Set	10 in	—	½ in	34 ¼ in		Ullman	**16W180**
Telescoping w/ LED Light	6 ¾ in	—	1 in	27 ¾ in		Ullman	**16W192**
Telescoping w/ LED Light	8 in	—	1 in	32 ¾ in		Ullman	**16W193**
Telescoping w/Needle Head	6 in	—	¼ in	25 in		Westward	**4FPU4**
Telescoping w/Pocket Clip	—	—	—	25 in		Westward	**1VTX6**
Telescoping w/Pocket Clip	5 ½ in	—	½ in	25 ½ in		Ullman	**16W184**
Telescoping w/Pocket Clip	5 ¼ in	⅜ in	—	24 in		Westward	**1VTZ2**
Telescoping w/Pocket Clip	6 ⅜ in	—	7/16 in	30 in		Westward	**1VTZ3**
Telescoping w/Pocket Clip	7 ½ in	—	½ in	33 ¾ in		Ullman	**16W182**
Magnetic Sweepers							
Extendable Pole	—	—	—	37 in		Westward	**1VTY4**
Hanging Magnetic Sweeper, Hanging	—	72 in	—	—		—	**9RYJ2**
Hang-Type	36 in	5 in	1 ¾ in	1 ¾ in		—	**2VAH1**
Hang-Type	48 in	5 in	—	—		—	**2VAH2**
Hang-Type	78 in	5 in	—	—		—	**2VAH3**
Hang-Type	84 in	5 in	—	—		—	**2VAH4**
Magnetic Handy Clip	2 ¼ in	1 ¼ in	—	—		—	**8AT89**
Magnetic Rake	24 in	12 in	—	41 in		Westward	**4YCK6**
Magnetic Sweeper	—	40 ½ in	—	—		—	**9MAU0**
Magnetic Sweeper, Hang-Type	3 ⅛ in	36 in	—	—		—	**10E767**
Magnetic Sweeper, Hang-Type	3 ⅛ in	48 in	—	—		—	**10E768**
Magnetic Sweeper, Push-Type	5 in	22 ½ in	—	—		—	**10E766**
Magnetic Sweeper w/Release	—	30 ¼ in	—	—		—	**8AT72**
Mini Sweeper, Telescoping	31 ¼ in	15 ½ in	15 ½ in	40 in		Magnet Source	**38HY85**
w/Extension Handle	24 in	—	3 ½ in	41 in		Westward	**4FPV3**
w/Wheels	13 in	2 in	—	42 in		Westward	**1VTY1**
w/Wheels	18 in	2 in	—	42 in		Westward	**1VTY3**
w/Wheels and Release Lever	24 in	7 ½ in	—	47 in		Westward	**1VTY2**
w/Wheels and Release Lever	29 ¼ in	15 ⅛ in	—	41 in		Westward	**4YCK5**

Description	L (in.)	W (in.)	Magnetic Strength	Brand	Item No.
Magnetic Holders					
Magnetic Wrist Holder	11 ½ in	1 ⅝ in	0.66 lb	Westward	**4EWR1**
Magnetic Tray	14 in	6 ¼ in	20 lb	Westward	**4YCK4**
Magnet with Broom Holder	1½	2⅝	41 lbs.	Mag-Mate	**49M020**

Telescoping Round
3R561



Telescoping, Oblong
1VUA2

Glass, Oval
1VTY8

Glass w/Base, Rectangular
1VTZ1

Inspection Mirrors

Description	Mirror Size (in.)	Shape	L (in.)	Brand	Item No.
Telescoping					
Acrylic	2¼ x 3⅝	Oblong	7¾ to 35½	Mayhew	**4KME8**
Acrylic	4 x 6	Oblong	8½ to 37	Mayhew	**4KMF2**
Acrylic Mirror, Nylon Head	2 x 2	Square	7 to 35½	Mag-Mate	**35T106**
Glass	2⅛ x 3½	Rectangular	3½	Ullman	**38VY62**
Glass	2⅛ x 3½	Rectangular	11¼ to 15½	Proto	**3R562**
Glass	2⅛ x 3½	Rectangular	11¼	Ullman	**38VY60**
Glass	2¼	Round	7 to 36½	Mag-Mate	**35T122**
Glass	2¼	Round	8⅝	General	**39EP61**
Glass	2¼	Round	10 to 14	Proto	**3R561**
Glass	2¼	Round	10½ to 19¾	Westward	**1VTY7**
Glass	3¼	Round	6½	Ullman	**38VY59**
Glass	3¼	Square	9⅝	General	**39EP62**
Glass	3½ x 2	Oblong	11 to 30	Westward	**1VTX8**
Glass	3½ x 2	Oblong	14 to 18 ½	Westward	**1VTY9**
Glass, Mounted on Rolling Swivel Wheels	7 x 14	Rectangular	49 to 74	Mag-Mate	**35T121**
Glass, w/LED Light	2 x 3	Rectangular	12¼ to 33	General	**6TFG5**
Glass, w/Magnet Tip	1¼	Round	4½ to 17½	Westward	**4FPV1**
Glass Mirror, Nylon Head	2½ x 3½	Rectangular	7¼ to 37	Mag-Mate	**35T123**
Nylon Polymer	1¾ x 2½	Oblong	—	Westward	**1VUA2**
Stainless Steel	2 x 3¾	Oblong	6¾ to 28½	Mayhew	**4KMF1**
Stainless Steel	2 x 3	Rectangular	7 to 37	Mag-Mate	**35T124**
Stainless Steel	2¼	Round	7 to 36	Mag-Mate	**49L984**
Stainless Steel, Flame Inspection	2 x 3¾	Oblong	9¾ to 29½	Westward	**4FPU9**
Stainless Steel, w/LED Light	1⅜	Round	6½ to 35	Ullman	**16W187**
Stainless Steel, w/LED Light	2¼ x 3½	Rectangular	6¾ to 30¼	Ullman	**16W190**
Stainless Steel, w/LED Light	2⅜	Round	6½ to 36⅜	Ullman	**16W188**
Stainless Steel, w/LED Light	3⅜	Round	6½ to 29½	Ullman	**16W189**
Flex Shaft					
Acrylic	1¾ x 2½	Oblong	23	Mayhew	**4KME7**
Fixed Shaft					
All Angle Ball Joint	1 x 2	Oval	8¾	Proto	**3R560**
Glass	1 x 2	Oval	12	Westward	**1VTY8**
Glass, w/Base	2⅛ x 3½	Rectangular	8 13/16	Westward	**1VTZ1**

B.A.S.H. Sledge Hammers

The proprietary Unbreakable steel-core technology makes these hammers suitable for the toughest jobs. Tested to withstand more than 25,000 overstrikes. Nonslip rubber grip and safety plate help assure the safety of the user and of those in the immediate area. Available with drop-forged steel head in High-Vis green color, or nonsparking brass head.

Head Weight	Face Dia.	Overall Length	Head Material	Item No.
Sledge Hammer				
12 lb	2 ¼ in	38 in	Steel	**12A549**
20 lb	3 in	32 in		**21XU65**
Standard Sledge Hammer				
6 lb	1 ⅞ in	18 in	Steel	**40P670**
6 lb	1 ⅞ in	26 in		**12A539**
6 lb	1 ⅞ in	32 in		**12A540**
6 lb	1 ⅞ in	38 in		**21XU62**
8 lb	2 ⅛ in	16 in		**40P671**
8 lb	2 ½ in	26 in		**12A541**
8 lb	2 ⅛ in	30 in		**12A542**
8 lb	3 in	38 in		**12A543**
10 lb	2 ¼ in	18 in		**40P672**
10 lb	2 ¼ in	26 in		**12A544**
10 lb	2 ¼ in	32 in		**12A545**
10 lb	2 ¼ in	38 in		**12A546**
12 lb	2 ¼ in	26 in		**12A547**
12 lb	2 ¼ in	32 in		**12A548**
14 lb	3 in	26 in		**21XU63**
14 lb	3 in	32 in		**12A550**
14 lb	3 in	38 in		**12A551**
20 lb	3 in	26 in		**21XU64**
20 lb	3 ¼ in	38 in		**12A552**
Steel Engineering Hammer				
3 lb	1 ½ in	12 in	Steel	**12A536**
4 lb	1 ¾ in	12 in		**12A537**
4 lb	1 ½ in	18 in		**12A538**
4 lb	1 ¾ in	26 in		**40P669**
Soft-Face Drilling Hammer				
3 lb	1 ½ in	14 in	Steel	**21XU66**
3 lb	1 ½ in	14 in	Brass	**20PD91**
4 lb	1 ¾ in	12 in	Steel	**21XU67**
4 lb	1 ¾ in	14 in	Brass	**20PD92**
4 lb	1 ¾ in	18 in	Steel	**21XU68**
4 lb	1 ¾ in	18 in	Brass	**20PD93**
Soft-Face Sledge Hammer				
6 lb	1 ¾ in	18 in	Brass	**20PD94**
6 lb	1 ⅞ in	26 in	Steel	**21XU69**
6 lb	3 in	38 in		**21XU70**
8 lb	3 in	26 in		**21XU71**
8 lb	3 in	38 in		**21XU72**
10 lb	2 ¼ in	38 in		**21XU73**
12 lb	2 ¼ in	38 in		**21XU74**
14 lb	3 in	38 in		**21XU75**
Ball Pein Hammer				
1½	1 ½ in	14 in	Steel	**32H603**
2	1 ¾ in	16 in		**32H604**
2½	1 ⅞ in	14 in		**32H605**
Cross Pein Hammer				
2	1 ½ in	18 in	Steel	**32H606**
3	1 ¾ in	18 in		**32H607**
8 lb	—	36 in		**20C892**
Spike Maul				
10 lb	—	38 in	Steel	**20PD95**
Splitting Maul				
6 lb	—	38 in	Steel	**21XU77**
8 lb	—	38 in		**21XU79**
Tether Ready, Shop Hammer Kit				
2 lb, 4 lb	1 ¾ in, 2 ¼ in	16 in	Steel	**48FX57**
Tether Ready, Soft-Face Sledge Hammer				
8 lb	2 in	16 in	Brass	**45GX79**
8 lb	2 in	30 in		**45GX80**

Item	Head Weight	Face Dia.	Item No.
B.A.S.H Kits			
Mechanics Hammer Kit	32 oz, 2 lb, 4 lb	1 ⅝ in, 1 ¾ in—	**48FX56**
Ball Pein Hammer Set	24 oz, 2 lb, 2 ½ lb24.0, 32.0, 40.0	1 ½ in, 1 ¾ in, 1 ⅞ in1 ½ in, 1 ¾ in, 1 ⅞ in	**54TU08**

Pro TIP

Choosing the Right Hammer

There are many different types of hammers, each made with a certain function in mind. Because some hammers have similar designs, it may appear that one hammer should be good enough for a variety of uses. However, choosing the right one for the job at hand is the only way to ensure you're getting the most out of your hammer.

For instance, **Claw** hammers are the most common and are used for woodworking and prying. They feature a smooth head for finishing work. The claw is curved for removing nails. **Framing** hammers, also called **Rip** hammers, are a type of claw hammer but with a straight rather than curved claw and a long handle. The head has a rough surface to keep it from slipping while driving nails. This hammer is suited for framing, splitting, and small demolition. Lightweight **Tack** hammers were made for attaching fabrics to furniture. **Dead Blow** hammers don't rebound after striking and are best for automotive applications, setting joints, and dent removal.

For descriptions of dozens of different hammers and their unique uses, see the article "Choosing the Right Hammer: Types of Hammers & Uses" at **grainger.com/hammertypes**

Sledge Hammers

Double-face hammers have forged steel heads with 2 large, flat striking surfaces.

Head Weight	Face Dia.	Face Shape	Head Material	Overall Length	Grip Style	Brand	Item No.
Classic Nuplaglas Handle							
10 lb	2 ⅛ in	—	Forged Steel	32 in	—	Nupla	**787UA3**
Fiberglass Handle							
1 ½ lb	1 ⅛ in	Round	Brass	12 in	Ribbed	Nupla	**4A105**
3 lb	1 ¾ in	Octagonal	Steel	14 in	Textured	Westward	**2DBT7**
3 lb	1 ½ in	Octagonal	Steel	15 in	Textured	Westward	**6DWL5**
3 lb	1 ½ in	Round	Brass	12 in	Ribbed	Nupla	**6D048**
3 lb	1 ⅝ in	Round	Steel	14 in	Ribbed	Nupla	**48TE25**
3 lb	1 ½ in	Round	Steel	14 in	Ribbed	Nupla	**4A108**
4 lb	1 ⅞ in	Octagonal	Steel	15 in	Textured	Westward	**6DWL4**
4 lb	1 ½ in	Octagonal	Steel	16 in	Plain	Westward	**6DWL3**
4 lb	1 ⅝ in	Round	Brass	12 in	Ribbed	Nupla	**5LV04**
4 lb	1 ⅝ in	Round	Steel	14 in	Ribbed	Nupla	**48TE26**
6 lb	1 ¾ in	Round	Steel	32 in	Ribbed	Nupla	**48TE27**
6 lb	2 ¼ in	Octagonal	Steel	33 in	Textured	Westward	**2DBT8**
8 lb	2 ½ in	Octagonal	Steel	34 in	Textured	Westward	**2DBT9**
8 lb	2 in	Round	Steel	32 in	Ribbed	Nupla	**48TE28**
8 lb	2 ½ in	Round	Steel	32 in	Ribbed	Nupla	**3MD39**
10 lb	2 ½ in	Octagonal	Steel	33 in	Textured	Westward	**2DBU1**
12 lb	2 ¾ in	Octagonal	Steel	34 in	Textured	Westward	**2DBU2**
14 lb	2 ¾ in	Octagonal	Steel	34 in	Textured	Westward	**6DWL2**
Hickory Wood Handle							
3 lb	1 ½ in	—	Forged Steel	15 ½ in	—	Hisco	**787UA5**
4 lb	1 ⅝ in	—	Forged Steel	15 ½ in	—	Hisco	**787UA4**
8 lb	2 in	—	Forged Steel	35 ¾ in	—	Hisco	**787UA2**
10 lb	2 ⅛ in	—	Forged Steel	35 ¾ in	—	Hisco	**787UA1**
16 lb	2 ½ in	—	Forged Steel	35 in	—	Hisco	**787UA0**
Steel Handle							
12 lb	2 ¼ in	Round	Steel	30 in	Ribbed	Westward	**24Z035**
12 lb	2 ¼ in	Round	Steel	30 in	Ribbed	Westward	**22XP78**
12 lb	2 ¼ in	Round	Steel	36 in	Ribbed	Westward	**22XP71**
12 lb	2 ¼ in	Round	Steel	38 in	Textured	Wilton	**12A549**
20 lb	3 in	Round	Steel	32 in	Textured	Wilton	**21XU65**
Wood Handle							
2 lb	1 ⅜ in	Octagonal	Steel	11 in	Plain	Westward	**20JX60**
3 lb	1 ¾ in	Octagonal	Steel	15 in	Textured	Westward	**4YR67**
4 lb	1 ⅝ in	Octagonal	Steel	11 in	Plain	Westward	**20JX61**
6 lb	2 ⅛ in	Octagonal	Steel	35 in	Plain	Westward	**2DBT2**
6 lb	2 ¼ in	Round	Steel	36 in	Plain	Hisco	**794JF9**
8 lb	2 ⅜ in	Octagonal	Steel	35 in	Plain	Westward	**2DBT3**
10 lb	2 ½ in	Octagonal	Steel	36 in	Plain	Westward	**2DBT4**
12 lb	2 ⅝ in	Octagonal	Steel	36 in	Plain	Westward	**2DBT5**
12 lb	3 in	Round	Steel	35 in	Plain	Hisco	**794JF7**
16 lb	2 ¾ in	Octagonal	Steel	36 in	Plain	Westward	**2DBT6**
20 lb	3 ⅜ in	Round	Steel	35 in	Plain	Hisco	**794JF8**

4YR57

6DWG8

49XH54

4YR58

WESTWARD · STANLEY · DEWALT

Claw and Framing Hammers

Curved Claw—Ideal for pulling nails.

Framing—Long, heavy, straight-claw hammers have large faces for faster framing work.

Rip Claw—A straighter claw than curved models makes these hammers better for ripping or prying.

Head Weight (oz.)	Face	Face Dia. (in.)	Overall Length (in.)	Brand	Item No.
Curved Claw Hammers					
Axe-Style, Fiberglass Handle					
16.0	Smooth	1 1/8	13	Westward	6DWG7
20.0	Smooth	1 1/4	13	Westward	6DWG6
Fiberglass Handle					
16.0	Smooth	1	13	Westward	4YR57
20.0	Smooth	1	13	Westward	2DBP7
Graphite Handle					
16.0	Smooth	1 3/16	13	STANLEY	3PY34
Hickory Handle					
13.0	Smooth	1 1/16	12	Westward	6DWG8
13.0	Smooth	1 9/64	13 3/4	STANLEY	6R253
16.0	Smooth	1	13	Westward	4YR59
16.0	Smooth	1 3/16	13 1/4	STANLEY	6R252
20.0	Smooth	1	13	Westward	2DBP8
Steel with Rubber Grip Handle					
16.0	Smooth	1 1/4	13	Westward	6DWG3
20.0	Smooth	1	13	Westward	6DWG2
Framing Straight Claw Hammers					
Steel with Rubber Grip Handle					
28.0	Checkered	1 1/8	16	STANLEY	49XH54
Rip Claw Straight Claw Hammers					
Fiberglass Handle					
16.0	Smooth	1 1/8	12	STANLEY	49XH55
Steel with Rubber Grip Handle					
14.0	Smooth	1 1/4	14 1/4	STANLEY	49XH49
14.0	Checkered	1	13 1/2	STANLEY	49XH51
16.0	Smooth	1 1/4	13 1/4	DeWalt	49XH56
16.0	Smooth	1 1/8	13	STANLEY	49XH52
17.0	Checkered	1 1/4	16	STANLEY	49XH50
20.0	Smooth	1 3/8	14	DeWalt	49XH57
20.0	Smooth	1 1/8	12	STANLEY	49XH53

Head Weight (oz.)	Face	Face Dia. (in.)	Overall Length (in.)	Brand	Item No.
Rip Curved Claw Hammers					
Indestructible Handle					
16.0	Hardened	1 1/10	13	Westward	39CF09
Straight Claw Hammers					
Axe-Style, Fiberglass Handle					
16.0	Smooth	1 1/8	13	Westward	6DWH6
Fiberglass Handle					
16.0	Smooth	1	13	Westward	4YR58
20.0	Smooth	1	13	Westward	6DWH7
Graphite Handle					
20.0	Smooth	1 19/64	13	STANLEY	3PY37
Hickory Handle					
16.0	Smooth	1	13	Westward	4YR60
20.0	Milled	1 1/8	13	Westward	6DWJ0
20.0	Smooth	1 1/8	13	Westward	6DWH9
24.0	Milled	1 3/8	13	Westward	6DWH8
Steel with Rubber Grip Handle					
16.0	Smooth	1	13	Westward	6DWH2
20.0	Smooth	1	13	Westward	6DWH1
22.0	Milled	1	16	Westward	6DWG9
22.0	Smooth	1	16	Westward	6DWH0
Steel with Shock Reduction Handle					
16.0	Smooth	1 1/8	13	Westward	6DWH4
20.0	Smooth	1 1/4	13	Westward	6DWH3
22.0	Smooth	1 19/64	16	STANLEY	5NAZ9
Straight Framing Hammers					
Axe-Style, Fiberglass Handle					
22.0	Milled	1 1/4	14 1/2	Westward	6DWJ2
28.0	Milled	1 5/16	15	Westward	6DWJ1

6R294

2DBR6

24Z042

22UM27

STANLEY · WESTWARD · PROTO

Ball Pein Hammers & Sets

Feature 1 crowned striking face with beveled edges and 1 spherical striking face. Used for bending and forming sheet metal, driving punches and chisels, and setting rivets.

Head Weight (oz.)	Head Dia. (in.)	Overall Length (in.)	Brand	Item No.
Compo-Cast, Reinforced Steel Handle				
24.0	1 1/2	12 7/8	STANLEY	6R294
32.0	1 1/4	14	STANLEY	6R296
Fiberglass Handle				
12.0	1	13	Proto	53CT46
16.0	1 1/4	13	Proto	53CT48
24.0	1 13/32	14 3/16	Proto	53CT50
32.0	1 1/2	15 1/4	Proto	53CT52
Graphite Handle				
16.0	1 1/4	12 3/4	STANLEY	6R285
Hickory Handle				
4.0	3/4	12 7/8	Westward	6DWN9
8.0	1	11 3/4	Westward	2DBR6
12.0	1 3/16	13	STANLEY	6R267
12.0	1 3/16	13	Westward	2DBR7
16.0	1 1/4	13 3/4	Westward	2DBR8
16.0	1 5/16	14	STANLEY	6R268
24.0	1 1/2	15 1/4	STANLEY	6R269
24.0	1 1/2	15 1/2	Westward	2DBR9
32.0	1 1/2	15 3/4	Westward	2DBT1
32.0	1 3/4	15 7/8	STANLEY	6R270
40.0	1 5/8	16 3/8	Westward	6DWN8
48.0	1 7/8	16 3/8	Westward	6DWN7
2-Piece Ball Pein Hammer Set				
12.0, 24.0	1, 1 1/4	12 1/2, 14 1/2	Westward	4YR62
16.0, 32.0	1, 1 1/2	14, 16	Westward	4YR63
Polypropolene and Thermoplastic Handle				
8.0	1	10 63/64	Westward	45RC15
16.0	1	12 57/64	Westward	45RC16
24.0	1 1/2	15 5/32	Westward	45RC17
32.0	1 1/2	15 15/64	Westward	45RC18
40.0	1 1/2	16	Westward	45RC19
Steel Handle				
8.0	1	10	Westward	6DWN3

Head Weight (oz.)	Head Dia. (in.)	Overall Length (in.)	Brand	Item No.
12.0	1	11	Westward	6DWN2
16.0	1	13	Westward	6DWN1
24.0	2	13	Westward	6DWN0
32.0	2	14	Westward	6DWL9
Indestructible Handle*				
32.0	1 5/16, 1 9/16	14	Westward	24Z042 *
Steel with Shock Reduction Handle				
4.0	—	10	Proto	22UM24
8.0	—	11	Proto	22UM25
12.0	—	12 1/8	Proto	22UM26
16.0	—	12 7/8	Proto	22UM27
24.0	—	13 25/32	Proto	22UM28
32.0	—	14 3/4	Proto	22UM29
40.0	—	15 15/64	Proto	22UM30
48.0	—	15 3/4	Proto	22UM31
3-Piece Ball Pein Hammer Set				
32.0, 40.0, 48.0	—	14 3/4, 15 15/64, 15 3/4	Proto	22UM33
4-Pc. Hammer Set				
8.0, 12.0, 16.0, 24.0	—	11, 12 1/8, 12 7/8, 13 25/32	Proto	22UM32
Wood Handle				
4.0	3/4	11	Proto	53CT43
8.0	1	12	Proto	53CT44
12.0	1	13	Proto	53CT45
16.0	1 1/4	14 1/2	Proto	53CT47
24.0	1 13/32	15	Proto	53CT49
32.0	1 1/2	15 7/8	Proto	53CT51
40.0	1 1/2	16 3/8	Proto	53CT53

**Additional Indestructible Handle Hammers are available, see page 826.*

22PN70

4YR64

5C932

Dead Blow Hammers

Heads contain steel shot or steel sand for more driving force and less bounce-back than solid head style, reducing impact felt by user.

Head Weight	Head Length	Face Dia.	Overall Length	Non-Sparking	Brand	Item No.
Standard Dead-Blow Hammers						
Fiberglass Handle						
3 lb	4 ⅝ in	2 ½ in	14 in	Yes	Proto	**3R514**
4 lb	5 in	2 ⅞ in	14 in	Yes	Proto	**3R512**
Steel Handle						
2 lb	3 ⅞ in	2 ⅛ in	14 in	No	Westward	**22PN72**
2 ½ lb	4 ⅜ in	1 ¾ in	14 in	No	Westward	**4YR66**
3 lb	4 ¾ in	2 ½ in	14 in	Yes	STANLEY	**5C934**
3 lb	5 ¾ in	1 ¾ in, 2 ⅛ in	14 in	No	Proto	**26X087**
3 lb	4 ⅞ in	2 ⅜ in	14 in	No	Westward	**22PN71**
3 lb	5 ¾ in	1 ¾ in, 2 ⅛ in	14 in	No	Proto	**24AK49**
4 lb	5 ¼ in	2 ⅝ in	14 in	No	Westward	**22PN70**
Dead-Blow Sledge Hammers						
Steel Handle						
5 lb	7 in	2 ⅞ in	20 in	Yes	STANLEY	**6R341**
11 lb	8 ⅛ in	3 ⅜ in	30 in	Yes	STANLEY	**6R343**
12 lb	8 ⅛ in	3 ⅜ in	36 in	Yes	STANLEY	**2FDB8**
Standard Dead-Blow Hammers						
Steel Handle						
3 ½ lb	5 in	2 in	14 in	No	Westward	**5MX33**
3 ½ lb	5 ¼ in	2 ⅞ in	15 in	Yes	STANLEY	**6R337**
3 ½ lb	6 ¼ in	2 in, 2 ⅜ in	16 in	No	Proto	**26X088**
3 ½ lb	6 ¼ in	2 in, 2 ⅜ in	16 in	No	Proto	**24AK50**

**Urethane over Brass Head Material*

Head Weight	Head Length	Face Dia.	Overall Length	Non-Sparking	Brand	Item No.
Dead-Blow Split-Head Hammers						
Steel Handle						
24 oz	4 ⅜ in	1 ¼ in x 1 11/16 in	13 in	Yes	Proto	**49XH59** *
Nylon-Tip & Rubber-Tip Hammers						
Wood Handle						
20 oz	4 ⅛ in	1⅝ in	13 in	No	Westward	**30PA73**
Nylon-Tip Hammers						
Wood Handle						
14 oz	4 ⅛ in	1⅛ in	13 in	No	Westward	**30PA76**
Standard Dead-Blow Hammers						
Steel Handle						
5 oz	3 in	⅞ in	10 in	Yes	STANLEY	**6R338**
8 oz	3 ⅛ in	1 ¾ in	11 in	No	Westward	**22PN73**
10 oz	3 ⅛ in	1 ¼ in	10 in	Yes	STANLEY	**6R336**
14 oz	3 ¼ in	1 in	10 in	No	Westward	**5MX32**
14 oz	4 ¼ in	1 ¼ in	11 in	Yes	STANLEY	**8APF0**
15 oz	3 ¾ in	1 in, 1 ¼ in	10 in	No	Proto	**24AK46**
18 oz	3 ¾ in	1 ¾ in	11 in	Yes	STANLEY	**5C932**
18 oz	3 ⅝ in	1 in	11 in	No	Westward	**4YR64**
18 oz	4 ¼ in	1 ½ in	12 in	Yes	STANLEY	**6R339**
21 oz	4 ⅛ in	2 in	13 in	Yes	STANLEY	**5C933**
21 oz	4 ½ in	1 ¼ in, 1 ½ in	12 in	No	Proto	**24AK47**
21 oz	5 ¼ in	1 ½ in	13 in	Yes	STANLEY	**6R340**
28 oz	5 ⅝ in	1 ⅜ in, 1 ¾ in	13 in	No	Proto	**24AK48**

Mallets

Use to minimize marring and surface damage.

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
Plastic Mallets					
Steel Handle					
8 oz	3 ⅛ in	1 ¾ in	10 in	Westward	**22PN85**
8 oz	3 ⅛ in	1 ¾ in	12 in	Westward	**22PN82**
12 oz	3 ½ in	2 in	12 in	Westward	**22PN86**
16 oz	4 in	2 ¼ in	13 in	Westward	**22PN83**
24 oz	4 ½ in	2 ½ in	13 in	Westward	**22PN87**
24 oz	4 ½ in	2 ⅝ in	14 in	Westward	**22PN84**

Head Weight	Head Length	Face Dia.	Overall Length	Brand	Item No.
Rubber Mallets					
Fiberglass Handle					
2 lb	4 ¾ in	3 in	16 in	Westward	**30PA82**
Steel Handle					
16 oz	3 ⅝ in	2 ¼ in	13 in	Westward	**4YR61**
Wood Handle					
2 lb	4 ⅝ in	2 ½ in	13 in	Westward	**6DWK9**
8 oz	3 ⅝ in	1 ⅞ in	12 in	Westward	**6DWL1**
13 oz	3 in	2 ¼ in	13 in	Westward	**5MX41**
16 oz	3 ⅞ in	2 ⅛ in	13 in	Westward	**6DWL0**
16 oz	3 ⅞ in	2 ½ in	14 in	STANLEY	**6GRH5**
18 oz	4 in	2 ⅜ in	14 in	STANLEY	**6R335**
24 oz	4 in	2 ¼ in	14 in	Westward	**5MX42**

6GRH5

6DWL0

Specialty Hammers and Hatchets

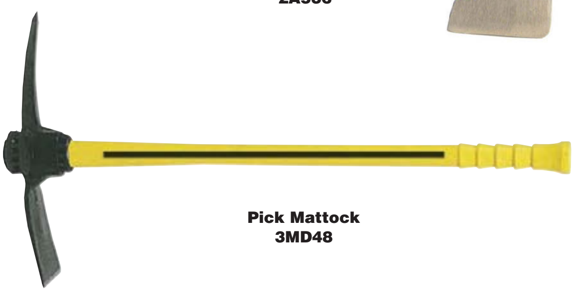
Shingler's, and Builder's—Have a striking face on 1 end for driving nails and a hatchet-type face on the other end for demolition work. Replacement blades and gauges are available for Shingler's Hammers. Builder's Hatchets are for cutting, splitting, and trimming building materials.

Bricklayer's and Pick Hammers—Bricklayer's Hammers have a striking face on 1 end for driving masonry chisels and a curved blade with beveled edge on the other for chipping mortar and trimming bricks to size. Pick hammers are designed for chipping rocks and stone to a desired shape and size.

Tinner's Riveting Hammers—Use for setting rivets in sheet metal.

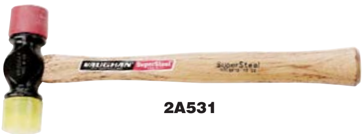
Welder's Scaling and Chipping Hammers—Have both a pick end and a chisel end. Generally used to remove slag, scale, and welding spatter from welded materials.

Builder's Hatchet
2A536


Pick Mattock
3MD48

Head Weight	Handle	Face	Cutting Edge	Overall Length	Brand	Item No.
Shingler's Hammers						
1 lb	Tuning Fork Design	Milled, Rim Tempered	1 47/64 in	13 in	STANLEY	**6GRK5**
Builder's Hatchets						
1.4 lb	Hickory	Smooth	3 ½ in	13 in	Vaughan	**3NWD9**
28 oz	Hickory	Milled	3 ⅜ in	17 ½ in	Vaughan	**2A536**
1.8 lb	Hickory	Scored	3 ⅜ in	17 ½ in	Westward	**5MX31**
Rip Claw Straight Claw Hammer						
14 oz	Steel with Rubber Grip	Checkered	—	14 in	STANLEY	**49XH51**
Bricklayer's Hammers						
16 oz	Hickory	Smooth	—	11 in	Westward	**6DWK8**
16 oz	Hickory	Smooth	—	11 in	Vaughan	**3NWD7**
20 oz	Steel w/Molded Rubber Grip, Tuning Fork Design	Rim Tempered	—	11 in	STANLEY	**6GRK2**
20 oz	Steel with Vinyl Grip	Smooth	—	11 in	Westward	**2DBU7**
24 oz	Hickory	Smooth	—	11 in	Westward	**6DWK7**
24 oz	Hickory	Smooth	—	11 in	Vaughan	**3NWD8**

Head Weight	Handle	Face	Cutting Edge	Overall Length	Brand	Item No.
24 oz	Hickory	Smooth	—	11 in	STANLEY	**6R289**
Pick Mattocks						
5 lb	Fiberglass w/Ergo Grip	—	—	36 in	Nupla	**3MD48**
Pick Hammer						
22 oz	Steel	Smooth	—	13 in	Vaughan	**6CLP2**
Tinner's Riveting Hammers						
16 oz	Fiberglass	Smooth	—	14 in	Vaughan	**4A098**
Welder's Scaling and Chipping Hammers						
12 oz	Hickory	—	—	11 in	Vaughan	**4A099**
14 oz	Steel	Smooth	—	13 in	Vaughan	**6CLP4**
15 oz	Steel	Point	—	11 in	Vaughan	**38NF30**


2A531

4R441

4YR68

4GB46

Hammers and Replacement Tips

Quick-Change and Soft-Face Hammers—2 replaceable striking faces (tips) are made of plastic, vinyl, or nylon, and come in a variety of hardnesses. Tip diameters match the size of the hammer and screw onto the hammer head.

Split-Head Hammers—Similar to Soft-Face, however, tips are contained in the split head. To replace tips, the head is disassembled into halves, and the tips are clamped rather than screwed in.

TIP SELECTION GUIDE	
Description	Replaces Hammer Type
Soft	Rubber, Wood, Soft Lead, Brass
Medium	Rawhide, Wood, Plastic, Lead
Tough	Rawhide, Hardwood, Plastic
Hard	Rawhide, Plastic, Micarta, Fiber
Extra-Hard	All Metal Working Applications

Head Weight	Tip Dia. (in.)	Tip Type	Brand	Item No.
Dead Blow Hammers w/Tips, Fiberglass Handles				
Polymer over Composite Tip				
30 oz	2 in	—	Nupla	**4GFZ7**
Quick-Change Hammers, Fiberglass Handles				
Without Tips				
6.0 oz.	1	Screw-In	Nupla	**2LMY1**
9.0 oz.	1	Screw-In	Nupla	**6D050**
16.0 oz.	1½	Screw-In	Nupla	**3MD69**
20.0 oz.	1½	Screw-In	Nupla	**2LMX9**
24.0 oz.	2	Screw-In	Nupla	**2LMX8**
36.0 oz.	2	Screw-In	Nupla	**3MD70**
40.0 oz.	2½	Screw-In	Nupla	**3MD68**
64.0 oz.	3	Screw-In	Nupla	**5LV15**
96.0 oz.	3	Screw-In	Nupla	**5LV16**
Quick-Change Hammer Set w/4 Tips, Fiberglass Handles				
Extra-Hard/Hard/Medium/Soft				
16.0 oz.	1½	Extra-Hard/ Hard/Medium/ Soft	Nupla	**1TMZ2**
Simplex Mallets w/Tips, Wood Handle				
Plastic, Rubber Tip				
2 ½ lb	2"	Medium/Hard	Halder Simplex	**3ZLL4**
3 ½ lb	2⅜"	Medium/Hard	Halder Simplex	**3ZLL5**
12 oz	1 3/16"	Medium/Hard	Halder Simplex	**3ZLL2**
Soft-Face Hammers w/Tips, Hickory Handles				
Nylon Tip				
6.0 oz.	1	Soft/Hard	Vaughan	**2A528**
12.0 oz.	1⅜	Soft/Hard	Vaughan	**2A531**
Plastic Tip				
8.0 oz.	1 13/64	Tough	STANLEY	**6R352**
Soft-Face Hammer w/Tips, Fiberglass Handles				
10 oz	1	Medium/Hard	Proto	**4R439**
12.0 oz.	1½	Medium/Hard	Proto	**4R441**
32.0 oz.	2	Medium/Hard	Proto	**4R446**
Soft-Face Hammer w/Tips, Steel Handle w/Vinyl Grip				
Rubber Tip				
16.0 oz.	1¼	Soft/Hard	Westward	**4YR68**
Split-Head Hammers w/Tips, Hickory Handles				
Rawhide Tip				
16.0 oz.	1¼	Medium	Vaughan	**6CLU0**
24.0 oz.	1½	Medium	Vaughan	**6CLU1**
48.0 oz.	1¾	Medium	Vaughan	**4GB46**
64.0 oz.	2	Medium	Vaughan	**4GB47**
112.0 oz.	2¾	Medium	Vaughan	**4GB48**

Tip Dia. in.)	Tip Material	Color	Brand	Item No.
Nonsparking Tips for Nupla Soft-Face Hammers				
Super Soft				
1 ½ in	Vinyl	Gray	Nupla	**4GGA6**
Medium				
1 ½ in	Vinyl	Red	Nupla	**4GGA8**
1 ½ in	Nylon	Cream	Nupla	**4GGC1**
Tough				
37,257 in	Vinyl	Green	Nupla	**4GGA9**
Hard				
1 ½ in	Nylon	Black	Nupla	**4GGC2**
Extra Hard				
1 ½ in	Nylon	Yellow	Nupla	**4GGC3**
Brass				
1 ½ in	Brass	Brown	Nupla	**4GGC4**
Tips for Nupla Soft-Face Hammers				
Soft				
1 ½ in	Vinyl	Brown	Nupla	**6D052**
Medium				
3 in	Vinyl	Red	Nupla	**5LT98**
Medium Hard				
3 in	Nylon	Cream	Nupla	**5LT99**
Medium				
2 ½ in	Vinyl	Red	Nupla	**3MD64**
2 ½ in	Nylon	Cream	Nupla	**3MD65**
2 in	Nylon	Cream	Nupla	**4A117**
1 ½ in	Vinyl	Red	Nupla	**6D051**
1 ½ in	Nylon	Cream	Nupla	**4A114**
1 in	Vinyl	Red	Nupla	**6D053**
1 in	Nylon	Cream	Nupla	**6D056**
Tough				
3 in	Vinyl	Green	Nupla	**5LV01**
2 ½ in	Vinyl	Green	Nupla	**3MD66**
2 in	Vinyl	Green	Nupla	**4A116**
1 ½ in	Vinyl	Green	Nupla	**4A113**
1 in	Vinyl	Green	Nupla	**6D054**
Hard				
3 in	Nylon	Black	Nupla	**5LT97**
2 ½ in	Nylon	Black	Nupla	**3MD63**
2 in	Nylon	Black	Nupla	**4A118**
1 ½ in	Nylon	Black	Nupla	**4A115**
1 in	Nylon	Black	Nupla	**6D055**
Extra Hard				
2 in	Hardened Steel	Silver	Nupla	**3MD62**
1 ½ in	Nylon	Yellow	Nupla	**2LMX6**
1 ½ in	Hardened Steel	Silver	Nupla	**3MD61**
1 in	Nylon	Yellow	Nupla	**2LMX5**
Tips for Proto Soft-Face Hammers				
Medium				
2 ½ in	Plastic	Cream	Proto	**4R425**
2 in	Rubber	Red	Proto	**16W836**

Tip Dia. in.)	Tip Material	Color	Brand	Item No.
Extra Hard				
2 in	Plastic	Yellow	Proto	**4R422**
Tips for Vaughan Soft-Face Hammers				
Soft				
1 ⅜ in	Plastic	Red	Vaughan	**2A533**
1 in	Plastic	Red	Vaughan	**2A530**
Hard				
1 ⅜ in	Plastic	Yellow	Vaughan	**2A532**
1 in	Plastic	Yellow	Vaughan	**2A529**
Tips for Vaughan Split-Head Hammers				
Soft				
2 ¾ in	Rawhide	Natural	Vaughan	**4GB56**
2 in	Rawhide	Natural	Vaughan	**4GB55**
1 ¾ in	Rawhide	Natural	Vaughan	**4GB54**
1 ½ in	Rawhide	Natural	Vaughan	**6CLU3**
1 ¼ in	Rawhide	Natural	Vaughan	**6CLU2**
Medium				
2 ¾ in	Nylon	Clear	Vaughan	**4GB62**
2 in	Nylon	Clear	Vaughan	**4GB61**
1 ¾ in	Nylon	Clear	Vaughan	**4GB60**
1 ½ in	Nylon	White	Vaughan	**6CLU5**
1 ¼ in	Nylon	White	Vaughan	**6CLU4**
Hard				
2 ¾ in	Plastic	White	Vaughan	**4GB59**
2 in	Plastic	White	Vaughan	**4GB58**
1 ¾ in	Plastic	White	Vaughan	**4GB57**
1 ½ in	Plastic	White	Vaughan	**6CLU7**
1 ¼ in	Plastic	White	Vaughan	**6CLU6**
Replacement Tips for Halder® Simplex Mallets				
Medium				
2 ⅜ in	Rubber	Black	Halder Simplex	**3ZLL9**
2 in	Rubber	Black	Halder Simplex	**3ZLL8**
1 3/16 in	Rubber	Black	Halder Simplex	**3ZLL6**
Hard				
2 ⅜ in	Plastic	Red	Halder Simplex	**3ZLN4**
2 ⅜ in	Nylon	White	Halder Simplex	**3ZLN8**
2 ⅜ in	Soft Metal	Silver	Halder Simplex	**3ZLP3**
2 in	Plastic	Red	Halder Simplex	**3ZLN3**
2 in	Nylon	White	Halder Simplex	**3ZLN7**
2 in	Soft Metal	Silver	Halder Simplex	**3ZLP2**
1 9/16 in	Nylon	White	Halder Simplex	**3ZLN6**
1 9/16 in	Soft Metal	Silver	Halder Simplex	**3ZLP1**
1 3/16 in	Plastic	Red	Halder Simplex	**3ZLN1**
1 3/16 in	Nylon	White	Halder Simplex	**3ZLN5**
1 3/16 in	Soft Metal	Silver	Halder Simplex	**3ZLN9**
Replacement Tips for Halder® Supercraft Mallets				
2 ⅜ in	Nylon	White	Halder Supercraft	**3ZLT3**
2 in	Nylon	White	Halder Supercraft	**3ZLT2**

Indestructible Handle Hammers

All handles are rubber molded over spring steel bars. Non-sparking tools feature a copper head, all others heads are carbon steel.

22XP69

24Z026

Head Weight	Face Dia.	Overall Length	Item No.
Cross Pein Hammers			
2 ½ lb	1 ½ in	16 in	**24Z039**
3 ½ lb	1 ¾ in	16 in	**24Z040**
Double Face Sledge Hammers			
3 lb	1 ⅜ in	12 in	**39CF11**
4 lb	2 in	12 in	**39CF13**
8 lb	2 in	16 in	**39CF14**
Non-Sparking Engineering Hammers			
4 lb	2 in	12 in	**24Z029**
Non-Sparking Sledge Hammers			
8 lb	2 ½ in	24 in	**24Z037**
14 lb	3 in	30 in	**24Z038**

Head Weight	Face Dia.	Overall Length	Item No.
Sledge Hammer			
12 lb	2 ¼ in	30 in	**24Z035**
12 lb	2 ¼ in	30 in	**22XP78**
12 lb	2 ¼ in	36 in	**22XP71**
Standard Sledge Hammers			
6 lb	1 ⅝ in	16 in	**44ZD52**
6 lb	1 ⅝ in	24 in	**24Z030**
6 lb	1 ⅝ in	30 in	**24Z031**
6 lb	1 ⅝ in	30 in	**22XP75**
8 lb	2 in	24 in	**24Z032**
8 lb	2 in	30 in	**24Z033**
8 lb	2 in	30 in	**22XP76**

Head Weight	Face Dia.	Overall Length	Item No.
8 lb	2 in	36 in	**22XP69**
10 lb	2 in	30 in	**24Z034**
10 lb	2 in	30 in	**22XP77**
10 lb	2 in	36 in	**22XP70**
14 lb	2 ¼ in	30 in	**24Z036**
14 lb	2 ¼ in	36 in	**22XP72**
Steel Drilling Hammers			
3 lb	1 ⅝ in	12 in	**22XP73**
3 lb	1 ⅝ in	16 in	**39CF10**
4 lb	1 ¾ in	12 in	**22XP74**
Steel Engineering Hammers			
3 lb	1 ⅝ in	12 in	**24Z026**
4 lb	1 ⅝ in	12 in	**24Z027**

Sintered Neodymium Disc

Ceramic Ring

Disc and Ring Magnets

Max. Pull (lb.)*	Dia.	Thickness	Item No.	Pkg. Qty.
Sintered Neodymium Disc				
2.6	5/16 in	0.118 in	**2VAE3**	10
2.6	3/8 in	0.1 in	**2VAE7**	1
2.9	5/16 in	0.118 in	**2VAE4**	1
4	15/32 in	0.118 in	**2VAK5**	6
4.6	15/32 in	0.118 in	**2VAE5**	1
4.9	1/4 in	0.25 in	**2VAF4**	1
4.9	1/2 in	0.125 in	**2VAE9**	1
5	3/8 in	0.2 in	**2VAF3**	1
7.2	45/64 in	0.118 in	**2VAE6**	1
10.9	3/4 in	0.187 in	**2VAE8**	1
14.5	1 in	0.187 in	**2VAF1**	1
22.7	1 in	0.25 in	**2VAF2**	1
Grade 35 Neodymium Disc w/Adhesive				
1	1/4 in	0.063 in	**10E731**	10
1	1/4 in	0.063 in	**10E732**	10
1	1/4 in	0.063 in	**10E762**	12
1.8	3/8 in	0.063 in	**10E733**	10
1.8	3/8 in	0.063 in	**10E734**	10
1.8	3/8 in	0.063 in	**10E763**	12
2.5	1/2 in	0.063 in	**10E735**	10
2.5	1/2 in	0.063 in	**10E736**	10
2.5	1/2 in	0.063 in	**10E764**	8
3.3	3/4 in	0.063 in	**10E737**	10
3.3	3/4 in	0.063 in	**10E738**	10
3.3	3/4 in	0.063 in	**10E765**	6
Grade 35 Neodymium Ring				
1.8	3/8 in	0.625 in	**10E760**	12
7.3	3/4 in	0.125 in	**10E761**	3
Grade 42 Neodymium Ring				
22.6	1 in	0.25 in	**10E805**	1
Sintered Neodymium Iron Boron Disc				
0.6	1/8 in	0.125 in	**6YA37**	1
1.4	1/4 in	0.1 in	**6YA45**	1
2.5	1/4 in	0.197 in	**6YA13**	5
3	1/4 in	0.125 in	**6YA33**	1
5	3/8 in	0.15 in	**6YA15**	5
7.3	1/2 in	0.187 in	**6YA41**	1
9.7	1/2 in	0.25 in	**6YA39**	1
15	7/8 in	0.375 in	**6YA47**	1
Sintered Samarium Cobalt Disc				
0.3	1/8 in	0.125 in	**6YA21**	1
1	1/4 in	0.1 in	**6YA25**	1
2.8	1/4 in	0.1 in	**6YA29**	1
4	1/2 in	0.187 in	**6YA23**	1
5	1/2 in	0.187 in	**6YA31**	1
Ceramic 5 Ring				
2.4	1 3/4 in	0.25 in	**10E784**	2
4.4	2 23/64 in	0.331 in	**10E795**	1
9.8	4 35/64 in	0.406 in	**10E797**	1
1.3	1 1/4 in	0.187 in	**10E794**	1
Ceramic 8 Ring				
0.4	11/16 in	0.125 in	**10E783**	6
Ceramic 8 Block				
0.5	1/2 in	0.187 in	**10E780**	40
Ceramic 8 Disc				
0.8	3/4 in	0.197 in	**10E781**	51

Ceramic Clip Magnets

Description	Dia. (in.)	Item No.
C-Clip, Chrome Clip	2.035	**3DYA1**
Channel Clip	2.035	**3DXZ9**
Belt Clip	2 in	**3DXZ7**
Chrome-Plated	1	**3DXY4**
Chrome-Plated, Pk. of 2	1	**3DXY5**

3DYA1

3DXY5

Ceramic Channel Magnets

Each magnet will lift, suspend, hold, and retrieve metal objects up to 100 times its own weight.

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
3	3/4 in	3/4 in	0.25 in	1/5 in	**3DYC5**
5	1 in	7/8 in	0.25 in	1/8 in	**3DYC8**
7	1 in	7/8 in	0.25 in	1/8 in	**3DYC3**
7	1 in	7/8 in	0.25 in	1/8 in	**3DYC4** **
22	3 in	9/10 in	0.25 in	—	**3DYA7**
22	3 in	9/10 in	0.25 in	3/8 in	**3DYA8** †
25	2 45/64 in	1 5/64 in	0.5 in	3/16 in	**3DYC1**
25	8 in	1 1/16 in	0.5 in	9/32 in	**3DYC2**

*† Includes 3/8-24 nut. ** Pk. of 2.*

3DYC3

Ceramic Latch Magnets

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Bipolar in Plastic w/Latch Plate					
50	4.2"	0.94"	1.13"	—	**3DYF1**
Bipolar in Steel w/2 Holes					
20	3 in	3/4 in	0.562 in	1/4 in	**3DYE7**
50	3 in	3/4 in	1.062 in	1/4 in	**3DYE8**
Zinc-Plated					
12	1 in	13/16 in	0.312 in	3/16 in	**3DYC7**

3DYF1

Ceramic Handle Magnets

Max. Lifting Capacity*	L	W	H	Item No.
50 lb	2 in	3/4 in	1 in	**3DYD6**
100 lb	4 in	3/4 in	1 in	**3DYD7**
100 lb	5 in	1 in	1 7/40 in	**38HY86**
150 lb	5 in	2 in	1 in	**3DYD8**
225 lb	5 1/4 in	2 in	2 in	**3DYD9**

3DYD8

6XY89

6YA66

3DXZ6

3DXY2

Round Base Magnets

Material	Max. Pull (lb.)*	Dia.	Thickness	Hole Dia.	Item No.
Shallow Pot					
Alnico 5	7	3/4 in	0.313 in	9/64 in	**6XY93**
Alnico 5	11	1 1/8 in	0.343 in	3/16 in	**6XY95**
Alnico 5	29	1 1/2 in	0.4 in	3/16 in	**6XY97**
Round Base					
Neodymium	22	1 1/4 in	0.188 in	1/8 in	**10E851**
Neodymium	105	2 1/32 in	0.313 in	1/4 in	**10E852**
Neodymium	160	2 5/8 in	0.375 in	1/4 in	**10E853**
Lifting and Retrieving					
Ceramic	11	1 1/4 in	0.187 in	1/8 in	**10E773**
Ceramic	200	4 9/10 in	0.5 in	1/2 in	**10E725**
Encased Work Holding					
Ceramic	11	1 1/4 in	0.187 in	1/8 in	**10E850**
Encased Round Base					
Synthetic Rubber/ Strontium Ferrite	4	1.21"	0.171 in	—	**3DXX6**
Ceramic	16	1 27/64 in	0.283 in	3/16 in	**3DXX8**
Ceramic Ferrite	16	1 2/5 in	0.283 in	3/16 in	**6XY85**
Ceramic Ferrite	25	2 in	0.315 in	1/5 in	**6XY87**
Ceramic	25	2 in	0.375 in	1/5 in	**8VU65**
Neodymium	48	1 2/5 in	0.265 in	1/5 in	**3DXX9**
Ceramic Ferrite	65	2 39/64 in	0.375 in	1/4 in	**6XY89**
Ceramic Ferrite	95	3 1/5 in	0.425 in	9/32 in	**6XY91**
Disc					
Ceramic	12	1 7/10 in	0.3 in	1 in	**3DXX7**

Description	Max. Pull (lb.)*	Dia.	Thickness	Item No.
Eyebolt				
Ceramic	25	2 in	1/4 in	**3DYA2**
Ceramic Ferrite in Steel Cup	95	3.20 in	1/2 in	**6YA66**
Neodymium	90	2 in	1/4 in	**3DYA3**
Threaded Post				
Ceramic	95	3.20 in	1/2 in	**2VAF8**
Ceramic, w/3 Nuts	35	2.03 in	1/4 in	**3DYA4**
Ceramic, w/3 Nuts	65	2.65 in	1/2 in	**3DYA6**
Neodymium, w/3 Nuts	90	2.03 in	1/4 in	**3DYA5**
Plain Post				
Ceramic, White	14	1.25 in	1/4 in	**3DXZ1**
Hook				
Ceramic, White	9	1.00 in	1/4 in	**3DXY6**
Ceramic, White Pk. of 2	9	1.00 in	1/4 in	**3DXY7**
Ceramic, White	14	1.25 in	1/4 in	**3DXY8**
Ceramic, White Pk. of 2	14	1.25 in	1/4 in	**3DXY9**
Ceramic, White	26	1 7/8 in	1/4 in	**3DXZ5**
Ceramic, White	55	2 3/4 in	1/2 in	**3DXZ6**
Ceramic, Chrome	65	2.63 in	3/8 in	**3DXZ2**
Ceramic Ferrite in Steel Cup, Chrome	20	2.04 in	1/4 in	**6YA67**
Ceramic, Reversible Hook	25	2.25 in	—	**10E727**
Neodymium, White	61	1 1/4 in	1/2 in	**3DXZ4**
Neodymium, Chrome	40	1.42 in	1/4 in	**3DXY3**
Neodymium, Swivel Hook	65	1.50 in	1/2 in	**10E831**
Ring				
Neodymium, Carabiner	45	1.12 in	1/4 in	**3DXY2**
Neodymium Key Ring	—	—	—	**3DXY1**

2VAG1

Magnetic Latch Sets

Designed for use as door latches for cabinets, display cases, or other closures.

Max. Pull (lb.)*	Dia. (in.)	Thickness (in.)	Item No.
Ring Sets			
23	Ring 0.740 Outer x 0.375 Inner, Cup and Strike Plate 0.875	Ring 0.105, Cup 0.281, Strike Plate 0.156	**2VAG2**
30	Ring 1.000 Outer x 0.500 Inner, Cup and Strike Plate 1.130	Ring 0.110, Cup 0.270, Strike Plate 0.150	**2VAG3**
Disc Sets			
6	Disc 0.360, Cup and Strike Plate 0.500	Disc 0.075, Cup 0.250, Strike Plate 0.094	**2VAF9**
16	Disc 0.490, Cup and Strike Plate 0.625	Disc 0.105, Cup 0.094, Strike Plate 0.0250	**2VAG1**

Alnico Horseshoe Magnets

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
2	1 in	1 1/8 in	0.339 in	—	**6XY47**
10	25/32 in	1 3/16 in	0.78 in	13/64 in	**6XY53**
22	1 in	1 9/16 in	1 in	13/64 in	**6XY57**
30	1 3/16 in	1 51/64 in	1.18 in	13/64 in	**6XY59**
32	15/16 in	2 3/16 in	1.812 in	13/64 in	**6XY61**
37	15/16 in	2 7/16 in	2 in	2/11 in	**6XY49**
50	15/16 in	3 in	2.5 in	3/16 in	**6XY51**
70	1 7/8 in	2 1/2 in	1.9 in	3/16 in	**6XY55**

6XY53

** Pull strength or max. pull (lb.) is measured under ideal situations in a controlled environment. Results will vary with differences in surface, texture, thickness, and temperature variations.*

6YA17

10E806

Max. Pull (lb.)*	L	W	Item No.
Indoor Adhesive on Nonmagnetic Side			
Strips			
6	10 ft	½ in	**6YA17**
6	100 ft	½ in	**6YA19**
12	100 ft	1 in	**2VAJ3**
12	10 ft	1 in	**6XY43**
12	100 ft	1 in	**6XY45**
18	100 ft	1 ½ in	**2VAJ4**
24	10 ft	2 in	**6YA64**
24	100 ft	2 in	**2VAJ5**
24	100 ft	2 in	**6YA65**
39	100 ft	3 in	**2VAJ6**

Flexible Magnetic Strips and Sheets

Max. Pull (lb.)*	L	W	Item No.
Outdoor Adhesive on Nonmagnetic Side			
Strips			
13	100 ft	1 in	**2VAJ7**
18	100 ft	1 ½ in	**2VAJ8**
26	100 ft	2 in	**2VAJ9**
39	100 ft	3 in	**2VAK1**
Plain Surface, No Adhesive or Vinyl			
Strips			
12	100 ft	1 in	**2VAH5**
13	100 ft	1 in	**10E824**
13	100 ft	1 in	**10E825**
24	100 ft	2 in	**2VAH6**
Sheets			
85	10 ft	24 ⅜ in	**10E809**
145	10 ft	24 ⅜ in	**10E812**
White Vinyl on Nonmagnetic Side			
Strips			
6.8	200 ft	1 in	**2VAH9**
13	100 ft	1 in	**2VAH7**
13.6	200 ft	2 in	**2VAJ1**
24	100 ft	2 in	**2VAH8**
27.2	200 ft	4 in	**2VAJ2**
Sheets			
85	10 ft	24 ⅜ in	**10E806**
85	25 ft	24 ⅜ in	**10E807**
85	50 ft	24 ⅜ in	**10E808**
145	10 ft	24 ⅜ in	**10E810**
145	25 ft	24 ⅜ in	**10E811**
Magnet-to-Magnet Kits			
Strips			
6	100 ft	½ in	**10E827**
13	100 ft	1 in	**10E826**

Ceramic Round w/Knob

Ceramic Tool Holding w/2 Screws

Ceramic Work Holding w/2 Holes

Holding Magnets

Max. Pull (lb.)*	Dia.	Thickness	Hole Dia.	Item No.
Alnico 5 Round				
4	¾ in	0.5 in	2/11 in	**6XY65**
6.5	1 in	0.625 in	7/32 in	**6XY67**
14	1 ¼ in	0.75 in	3/16 in	**6XY69**
18.5	1 ½ in	0.875 in	¼ in	**6XY71**
Ceramic Round w/Knob				
16	1 7/16 in	0.283 in	—	**3DXW6**
25	2 in	0.315 in	—	**3DXW7**
65	2 ⅝ in	0.374 in	—	**3DXW8**
95	3 13/64 in	0.425 in	—	**3DXW9**

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Ceramic Magnet, Vinyl Handle Rectangular w/Knob					
45	2 ⅜ in	3 in	0.585 in	—	**3DXX5**
Ceramic Rectangular w/Knob					
15	1 ⅗ in	1 ⅜ in	0.65 in	—	**3DXX2**
40	2 ⅜ in	1 ⅝ in	0.56 in	—	**3DXX4**
Ceramic Tool Holding w/2 Screws					
20	13 in	1 ⅛ in	—	¼"	**3DYE5**
20	18 in	1 ⅛ in	—	¼"	**3DYE6**
20	24 in	1 ⅛ in	—	¼"	**3DYE4**
100	6 in	¾ in	7/9 in	¼"	**3DYE3**
Ceramic Work Holding w/2 Holes					
40	3 ¼ in	⅞ in	1.33 in	2/7 in	**3DYC9**
65	5 ¼ in	⅞ in	1.3333 in	2/7 in	**3DYD2**
120	3 ⅞ in	1 ¼ in	1.375 in	¼ in	**3DYD3**
250	5 ¼ in	1 ⅞ in	2.125 in	2/7 in	**3DYD4**

Alnico 5 Bar 6XY75

6XY81

10E848

2VAF7

Magnet Assemblies

- See Grainger.com for included hardware

Max. Pull (lb.)*	Thickness	Dia.	Item No.
Alnico Magnet Assemblies			
¼-20 Thread			
5	0.625 in	11/16 in	**6XY77**
10	0.75 in	13/16 in	**6XY79**
18	1 in	1 1/16 in	**6XY81**
35	1.187 in	1 ⅜ in	**6XY83**
Shielded, Brass Cup			
0.14	0.5 in	¼ in	**10E848**
0.225	0.5 in	½ in	**10E849**
Neodymium Magnet Assemblies			
Shielded, Brass			
1.5	0.5 in	¼ in	**10E836**
7	0.5 in	½ in	**10E832**
Aluminum Pot			
0.7	0.5 in	¼ in	**10E840**
145	1 in	3 in	**10E841**

Max. Pull (lb.)*	Overall Length	Overall Width	Thickness	Hole Dia.	Item No.
Ceramic Magnet Assemblies					
Tool Holders					
480	24 in	1 in	1 ⅝ in	¼"	**2VAF5**
Lifting/Retrieving					
40	2 in	2 in	0.6 in	¼ in	**10E861**
100	2 in	2 in	—	¼ in	**6YA69**
100	6 in	¾ in	—	¼ in	**6YA68**
150	5 in	2 in	2 in	¼-20	**2VAF6**
225	5 in	2 in	2 in	¼-20	**2VAF7**
Latch					
22	1 in	2 in	0.5 in	¼ in	**10E829**

Description	Item No.
Accessories	
Magnetic Clip	
Red, 3 ½ in	**10E857**
Magnetic Cup Caddy	
Black, 3 ½ in" Dia.	**10E749**
Red, 3 ¼ in" Dia.	**10E750**
Magnetic Parts Trays	
Stainless Steel, 1½ H x 6 In D	**10E751**
Stainless Steel, 5½ L x 9½ W x 1½ H	**10E752**

Neodymium Block 10E799

Neodymium Sphere 10E787

Rod, Bar, Block, and Sphere Magnets

Max. Pull (lb.)*	Dia.	Overall Length	Overall Width	Thickness	Item No.	Pkg. Qty.
Alnico 5 Bar						
0.4	—	3 in	25/64 in	0.593 in	**6XY75**	2
Ceramic 5 Block						
1	—	1 in	¾ in	0.2 in	**10E791**	1
3	—	1 ⅞ in	⅞ in	0.25 in	**10E793**	1
0.6	—	⅞ in	¼ in	0.187 in	**10E779**	8
2.8	—	1 ⅞ in	⅜ in	0.375 in	**10E778**	2
3.2	—	1 ⅞ in	⅞ in	0.393 in	**10E790**	1
Grade 8 Ceramic Latch						
3.1	—	1 ⅞ in	⅞ in	0.375 in	**2VAL2**	2
Ceramic 8 Block						
10.6	—	6 in	2 in	0.5 in	**10E788**	1
15	—	6 in	4 in	0.5 in	**10E789**	1
30	—	6 in	4 in	1 in	**10E792**	1
Grade 35 Neodymium Block						
43.9	—	1 in	1 in	0.5 in	**10E799**	1
43.9	—	2 in	½ in	0.5 in	**10E803**	1
Grade 35 Neodymium Sphere						
12.3	¾ in	—	—	—	**10E787**	1

10E816

H	W	Item No.	Pkg. Qty.
Magnetic Pouches			
6 ½ in	4 ¾ in	**10E816**	1
6 ½ in	6 ½ in	**10E817**	1
12 in	9 ½ in	**10E818**	1
Magnetic Document Holder			
8 ½ in	11 in	**10E819**	1
Magnetic Photo Pockets			
4 in	6 in	**10E821**	2

Magnetic Pouches and Holders

H	W	Item No.	Pkg. Qty.
Label Holders			
1"	1 in	**10E822**	100
2"	2 in	**10E823**	100
Business Card Magnets			
3½"	2 in	**10E854**	25
3½"	2 in	**10E855**	50
3½"	2 in	**10E856**	100

L (in.)	W (in.)	Item No.	Pkg. Qty.
Data Card Holders			
6	0.95	**2VAK2**	25
6	1.83	**2VAK3**	25
		2VAK4	25

** Pull strength or max. pull (lb.) is measured under ideal situations in a controlled environment. Results will vary with differences in surface, texture, thickness, and temperature variations.*

WILTON WESTWARD PALMGREN RIDGID

Combination Vises

- Replacement jaws and magnetic caps are available on Grainger.com
- All have serrated jaw face, except 61KD23 is knurled and 29YW78 is smooth

These vises combine the features of bench vises and pipe vises to securely clamp straight workpieces and irregular-shaped workpieces, as well as round tubing and pipe.

Jaw Width	Max. Opening	Throat Depth	Base Type	Pipe Jaw Included	Pipe Capacity	Reversible	High Visibility	Swivel Angle	Brand	Item No.
Light Duty										
20,000 psi Body Casting Tensile Strength										
5 in	5 in	2½ in	Swivel	No	—	No	No	360 °	Wilton	**29YW07**
6 in	6 in	3 in	Swivel	No	—	No	No	360 °	Wilton	**29YV61**
Standard Duty										
30,000 psi Body Casting Tensile Strength										
2½ in	2 ⅛ in	1¾ in	Swivel	No	—	No	No	45 °	Wilton	**5LK54**
3 in	3 in		Clamp-On Swivel	Yes	⅜ in	No	No	360 °	Wilton	**29YW78**
3½ in	3 ½ in	2 in	Swivel	Yes	⅝ in to 1 3/16 in	No	No	360 °	Westward	**10D702**
4 in	2 ¼ in	2 in	Swivel	No	—	No	No	45 °	Wilton	**5LK53**
4 in	4 in	2¼ in	Swivel	Yes	—	No	No	120 °	Wilton	**29YW53**
4 in	4 in	2¼ in	Swivel	Yes	¼ in to 1 ½ in	No	No	360 °	Westward	**4YR98**
4 in	4 in	2¾ in	Swivel	Yes	⅝ in to 2 in	No	No	360 °	Wilton	**24W174**
4 in	4 ½ in	3 7/16 in	Swivel	Yes	¼ in to 2 in	No	No	360 °	Wilton	**2Z474** *
4 in	4 ½ in	3 7/16 in	Swivel	Yes	¼ in to 2 in	No	No	360 °	Westward	**10D708**
4½ in	4 in	2½ in	Swivel	Yes	⅛ in to 1½ in	No	No	180 °	Westward	**10D710**
4½ in	4 in	2¾ in	Swivel	Yes	⅛ in to 1½ in	No	No	360 °	Wilton	**55EN82**
5 in	5 in	2½ in	Swivel	Yes	½ in to 1¼ in	No	No	360 °	Westward	**4YP27**
5 in	5 in	3 in	Swivel	Yes	⅝ in to 2⅜ in	No	No	360 °	Wilton	**24W175**
5 in	5 ¼ in	3¾ in	Swivel	Yes	¼ in to 2½ in	No	Yes	360 °	Wilton	**5LJ84**
5 in	5 ¼ in	3¾ in	Swivel	Yes	¼ in to 2½ in	No	No	360 °	Wilton	**2Z346**
5 in	5 ¼ in	3¾ in	Swivel	Yes	⅜ in to 2½ in	No	No	360 °	Westward	**10D707**
5½ in	5 in	2¾ in	Swivel	Yes	⅝ in to 2½ in	No	No	360 °	Wilton	**55FF51**
5½ in	5 in	3¼ in	Swivel	Yes	¼ in to 2 in	No	No	360 °	Wilton	**55EN83**
5½ in	5 ½ in	3¾ in	Swivel	Yes	¼ in to 3 in	No	No	360 °	Westward	**10D711**
5½ in	6 ¾ in	3¾ in	Swivel	Yes	⅛ to 2½ in	Yes	No	360 °	Wilton	**55FF50**
6 in	5 ¾ in	4⅛ in	Swivel	Yes	¼ in to 3½ in	No	No	360 °	Wilton	**1ATH4**
6 in	5 ¾ in	4⅛ in	Swivel	Yes	¼ in to 3½ in	No	Yes	360 °	Wilton	**5LJ85**
6 in	6 in	3½ in	Swivel	Yes	⅝ in to 2½ in	No	No	360 °	Wilton	**24W176**
6½ in	5 ½ in	3 13/16 in	Swivel	No	⅛ in to 2½ in	No	Yes	180 °	Wilton	**54TU07**
6½ in	6 in	4 in	Swivel	Yes	¼ in to 2 in	No	No	360 °	Wilton	**55FE57**
6½ in	6 in	4¼ in	Swivel	Yes	¼ in to 3½ in	No	No	360 °	Wilton	**55EN84**
6½ in	7 ½ in	4 in	Swivel	Yes	¼ in to 3 in	Yes	No	360 °	Wilton	**55FF53**
8 in	8 in	3½ in	Swivel	Yes	⅜ in to 3 in	No	No	360 °	Westward	**6RA23**
8 in	8 in	4 in	Swivel	Yes	¾ in to 3 in	No	No	360 °	Wilton	**24W177**
8 in	8 ¼ in	4½ in	Swivel	Yes	⅜ in to 4 in	No	No	360 °	Wilton	**55FF52**
8 in	8 ¼ in	4⅝ in	Swivel	Yes	⅜ in to 2½ in	No	No	360 °	Westward	**10D709**
8 in	8 ¼ in	4¾ in	Swivel	Yes	¼ in to 3½ in	No	No	360 °	Wilton	**6YA70**
8 in	9 ¼ in	4¾ in	Swivel	Yes	⅜ in to 4 in	Yes	No	360 °	Wilton	**55EK36**
45,000 psi Body Casting Tensile Strength										
6 in	6 in	3 in	Clamp-On Stationary	Yes	½ to 3½ in	No	Yes	—	Westward	**54ZV75**
Heavy Duty										
60,000 psi Body Casting Tensile Strength										
5 in	5 in	3⅝ in	Swivel	Yes	¼ in to 3 in	No	No	360 °	Wilton	**498X10**
6½ in	6 in	4 3/16 in	Swivel	Yes	½ in to 4 in	No	No	360 °	Wilton	**498X11**
8 in	8 ¼ in	4½ in	Swivel	Yes	½ in to 4 in	No	No	360 °	Wilton	**498X12**
10 in	12 in	5½ in	Swivel	Yes	¼ in to 5 in	No	No	360 °	Wilton	**498X13**
3½ in	5 in	4½ in	Swivel	Yes	¼ in to 2½ in	No	No	360 °	Wilton	**498X14**
4½ in	3 ½ in	3⅝ in	Swivel	Yes	¼ in to 2½ in	No	No	360 °	Wilton	**638H22**
4½ in	7 in	4¾ in	Swivel	Yes	¼ in to 3½ in	No	No	360 °	Wilton	**498X15**
5 in	5 in	3⅜ in	Stationary	No	¼ in to 3 in	No	No	—	Westward	**3FDJ1**
5 in	6 in	3½ in	Swivel	Yes	¼ in to 2½ in	No	No	360 °	Palmgren	**19D152**
5 in	7 ⅞ in	5½ in	Swivel	Yes	⅛ in to 4½ in	No	No	360 °	Wilton	**498X16**
5½ in	5 ½ in	3¾ in	Swivel	Yes	¼ in to 3 in	No	No	360 °	Westward	**10D712**
5½ in	5 in	4¼ in	Swivel	Yes	⅜ in to 3½ in	No	No	360 °	Wilton	**638H23**
6 in	6 in	3 in	Swivel	Yes	1 in to 2½ in	No	No	360 °	Westward	**3FDG9**
6 in	6 in	3 in	Swivel	Yes	1 in to 2 in	No	No	360 °	Westward	**10D695**
6 in	7 in	3¾ in	Swivel	Yes	¼ in to 3½ in	No	No	360 °	Palmgren	**19D153**
6 in	10 in	6⅝ in	Swivel	Yes	¼ in to 6 in	No	No	360 °	Wilton	**498X17**
6½ in	6 in	5 in	Swivel	Yes	⅜ in to 4 in	No	No	360 °	Wilton	**638H24**
7 in	8 in	3 in	Swivel	Yes	1 in to 2 in	No	No	360 °	Westward	**10D694**
8 in	6 ¾ in	3½ in	Swivel	Yes	⅛ in to 3½ in	No	No	360 °	Wilton	**638H21**
65,000 psi Body Casting Tensile Strength										
5½ in	5 ¾ in	3¾ in	Clamp-On Swivel	Yes	⅜ to 3 ½ in	No	No	360 °	Palmgren	**61KD23**
75,000 psi Body Casting Tensile Strength										
4½ in	6 in	3 in	Swivel	Yes	⅜ in to 3 in	No	No	360 °	Ridgid	**3AFP5**
4½ in	6 in	3 in	Swivel	Yes	⅜ in to 3 in	No	No	360 °	Ridgid	**4WN27**
5 in	7 in	3⅝ in	Swivel	Yes	½ in to 3½ in	No	No	360 °	Ridgid	**4WN28**
5 in	8 in	3½ in	Swivel	Yes	½ in to 3½ in	No	No	360 °	Ridgid	**3AFP6**
6 in	6 in	4 in	Swivel	Yes	½ in to 4 in	No	No	360 °	Ridgid	**4WN29**

****Deep Throat***

29YW07

24W175

3FDJ1

Machinist's Vises

WILTON

- Body casting tensile strength: 60,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Designed for cutting and welding parts or shaping materials, these vises feature replaceable steel serrated jaws, extra large bodies, larger throat openings, anvils, 360° swivel jaws, and swivel bases.

Jaw Width	Max. Opening	Throat Depth	Item No.
3 in	4 ¾ in	2 ⅝ in	**498X18**
4 in	6 ½ in	3 ½ in	**498X19**
6 in	10 in	5 ½ in	**498X21**
8 in	12 in	5 13/16 in	**498X22**

498X22

WESTWARD

Light-Duty Multi-Angle Vise

- Body casting tensile strength: 22,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Allow positioning in 3 planes: you can tilt, turn, and rotate your workpieces with the simple turn of a handle. Applications include electronics and wood carving. Feature vacuum base and 360° swivel rotation.

Jaw Width	Max. Opening	Throat Depth	Construction	Item No.
2 ¾ in	2 ⅝ in	1 ⅜ in	Aluminum Alloy	**3FDH8**

10D729

PALMGREN WESTWARD

Standard-Duty Multijaw Rotating Vises

- Body casting tensile strength: 30,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Jaws rotate 360° degrees for clamping at any angle and are equipped with replaceable jaws for a variety of applications. Swivel base.

Jaw Width	Max. Opening	Throat Depth	Deep Throat	Pipe Capacity	Brand	Item No.
5 in	4 in	3 ½ in	No	¼ in to 3½ in	Palmgren	**19D159**
5 in	5 ½ in	3 ¼ in	No	¼ in to 2 in	Westward	**10D729**

10D698

6YA71

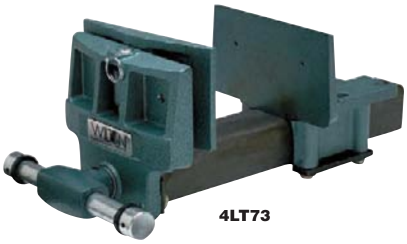
WILTON WESTWARD

Standard-Duty Portable Vises

- Body casting tensile strength: 30,000 psi
- Replacement jaws and magnetic caps are available on Grainger.com

Clamp directly onto the work bench. These vises are ideal for very light-duty work with smaller workpieces. They can be positioned vertically and horizontally and can be removed after use to save valuable space or transport to another work location.

Jaw Width	Max. Opening	Throat Depth	Base Type	Pipe Jaw Included	Pipe Capacity	Swivel Angle	Jaw Face	Brand	Item No.
2 ½ in	2 ⅛ in	1 ¾ in	Clamp-On Swivel	No	—	45 °	Serrated	Wilton	**5LK42**
2 ½ in	2 ½ in	1 ¼ in	Clamp-On Stationary	Yes	⅝ in to 13⁄16 in	—	Serrated	Westward	**10D698**
3 in	2 ½ in	2 ⅝ in	Clamp-On Stationary	Yes	⅜ in	360 °	Smooth	Wilton	**6YA71**
3 in	3 in		Clamp-On Swivel	Yes	⅜ in	360 °	Smooth	Wilton	**29YW78**
4 in	2 ¼ in	2 in	Clamp-On Swivel	Yes	—	45 °	Serrated	Wilton	**5LK41**



4LT73

WESTWARD WILTON

Woodworking Vises

- Replacement jaws and magnetic caps are available on Grainger.com

Large jaws distribute pressure while securely clamping wood workpieces. The design allows for clamping both horizontally and vertically. Models with smooth jaws help to prevent marring. Ideal for general woodwork and carpentry.

Jaw Width	Max. Opening	Throat Depth	Base Type	Swivel Angle	Jaw Face	Brand	Item No.
Light Duty							
7 in	7 ⅞ in	3 in	Stationary	—	Smooth	Westward	**10D722**
9 in	10 in	4 in	Stationary	—	Smooth	Westward	**10D723**
10 ½ in	12 in	4 in	Stationary	—	Smooth	Westward	**10D724**
Standard Duty							
6 ½ in	4 ½ in	3 in	Stationary	360 °	Smooth	Wilton	**24U987**
7 in	10 in	4 in	Stationary	—	Serrated	Wilton	**4LT73**
10 in	13 in	4 in	Stationary	—	Serrated	Wilton	**41D418**

20PD96

WILTON

ATV All Terrain Vise

Lightweight all-terrain vise is designed for easy transport with an integrated carrying handle. Fits a standard 2-in. hitch (hitch pin included). Innovative mounting bracket allows you to mount the vise to a bench or trailer for greater versatility. The innovative 360° locking handle secures the handle while driving or repositions it while working. Set screws provide a tight fit in the hitch and reduce vibration while driving. Jaws include a V-groove for vertical clamping of round objects. Pipe jaws clamp objects up to 3 in.

Jaw Width	Max. Opening	Throat Depth	Pipe Cap.	Item No.
5"	6 in	5"	¾" to 3"	**49XF29**
6"	5 ¾ in	5"	¾" to 3"	**20PD96**
6"	6 in	5"	¾" to 3"	**49XF30**
Additional Mounting Bracket, Ductile Iron				**20PD97**

PanaVise®

Multi-Angle Vises

These vises are designed around interchangeable bases, base mounts, and heads. Available as preselected combinations or as a combination you custom make for your own work station. They allow you to tilt (180°), turn (360°), and rotate (360°) all from a single knob.

3KZJ9

Description	Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Mfr. Model	Item No.
Vise Combinations - Head, Base & Base Mount						
PanaVise Jr. Mini	1 in	2 ⅞ in	2 in	⅛ in to 3 in	201	**3KZK4**
Standard Swivel	2 ½ in	2 ¼ in	1 ⅜ in	1 in to 2 in	301	**3KZJ9**
Vacuum Base	2 ½ in	2 ¼ in	1 ⅜ in	1 in to 2 in	381	**3KZK2**
Vacuum Base Jr.	1 in	2 ⅞ in	2 in	2½ in	209	**40N526**
Wide Opening Jaw	6 in	6 in	1 55⁄64 in	½ in to 3½ in	396	**3KZK6**
Self-Centering Wide Opening Jaw	1 13⁄16 in	9 ¼ in	1 9⁄16 in	1 in	350	**40N553**
Electronics Work Station	5⁄16 in	12 in	6 3⁄16 in	—	324	**3KZK8**
Micrometer Multi-Angle Vise	⅞ in	½ in	1 ⅜ in	—	391	**40N565**

Description	H	W	Mfr. Model	Item No.
Panavise Bases, Heads, and Jaws				
Swivel Base	3 ¾ in	5 in	300	**40N528**
Swivel Base, Heavy-Duty	3 3⁄16 in	4 3⁄32 in	400	**40N567**
Swivel Vacuum Base	3 ½ in	4 ½ in	380	**40N561**
Weighted Base Mount	1 1⁄32 in	7 ½ in	308	**40N533**
Clamp-On Base Mount	10 ⅛ in	4 9⁄16 in	311	**40N535**
Tray Base Mount	½ in	8 7⁄16 in	312	**40N536**
Magnetic Base Mount	7⁄16 in	5 in	335	**40N547**
Vise Head, Wide Opening	5 ⅛ in	1 ⅞ in	366	**40N558**
Vise Head, Self-Centering Extra Wide Opening	5 ¼ in	1 13⁄16 in	376	**40N560**
Fixturing Head	—	—	337	**40N548**
Heavy Duty Fixturing Head	—	—	437	**40N568**
Vise Head, Circuit Board Holder	10 ⅞ in	14 in	315	**40N537**
Vise Buddy Jr., Bench Vise Attachment	8 ⅝ in	1 ½ in	207	**40N525**
Replacement Jaws	—	—	343	**40N549**
Replacement Grooved Jaws	—	—	344	**40N550**
Replacement Jaws, High Heat TFE	—	—	352	**40N554**
Replacement Jaws, Plated Steel	—	—	353	**40N555**
Replacement Jaws, Brass	—	½ in	354	**40N556**
Replacement Jaw Pad	—	—	346	**40N551**
Replacement Jaw Pad, Nonmarking	—	—	346NM	**40N552**
Wire Manager	—	—	358	**40N557**

Westward® Bessey®

I Beam Bar, I Bar, and Parallel Clamps

10D590

I Bar—Feature a rapid-acting clamp locking device. Compressed metal pawl engages in notches which are ¾" apart in web of slide.
- 3500 lb. load capacity

Parallel—Suitable where high pressure 90° clamping or spreading is required. Convert from a clamp to spreader without tools. Include jaw face pads, rail protector pads, and removable end stops.
- 1500 lb. clamping force

I Beam—Will not bend or twist like other clamps. Features tough, powder-coated ductile castings, corrosion-resistant nickel-plated rail, 5 strong clutch plates to aid with gripping the bar stock, strong crank handle, ACME threaded screws with 9⁄16" spindle dia., and large, easy-grip handles.

Max. Jaw Opening (in.)	Throat Depth (in.)	Clamp Face (in.)	Brand	Item No.
I Bar Clamps				
24 in	1 ¾	1 23⁄32 x 1⅞	Westward	**10D588**
36 in	1 ¾	1 23⁄32 x 1⅞	Westward	**10D590**
48 in	1 ¾	1 23⁄32 x 1⅞	Westward	**10D591**
60 in	1 ¾	1 23⁄32 x 1⅞	Westward	**10D592**
72 in	1 ¾	1 23⁄32 x 1⅞	Westward	**10D593**
Parallel Clamps				
12 in	3 ¾	2 x 3¾	Bessey	**450G39**
24 in	3 ¾	2 x 3¾	Bessey	**450G40**
31 in	3 ¾	2 x 3¾	Bessey	**450G41**
40 in	3 ¾	2 x 3¾	Bessey	**450G42**
50 in	3 ¾	2 x 3¾	Bessey	**450G43**
I-Beam Bar Clamps				
24 in	2	2 x 2	Bessey	**450G44**
30 in	2	2 x 2	Bessey	**450G45**
36 in	2	2 x 2	Bessey	**450G46**
48 in	2	2 x 2	Bessey	**450G47**
60 in	2	2 x 2	Bessey	**450G48**
72 in	2	2 x 2	Bessey	**450G49**
84 in	2	2 x 2	Bessey	**450G50**
96 in	2	2 x 2	Bessey	**450G51**
Parallel Clamp Accessories				
K Body Extender, Connect 2 for extended reach			Bessey	**5HXP7**
Pivot Jaws, Pk. of 2			Bessey	**5HXP8**
Jaw Protectors, Pk. of 2			Bessey	**5HXP9**
Table Mount Clamps				
Clamp-On Vise Base, 1 pair			Bessey	**5HXR3**

IRWIN® QUICK-GRIP Bessey®

Bar Clamps and Spreaders

52LA96

IRWIN 1-HANDED BAR CLAMPS/SPREADERS

Manufactured with high-tension I-beams and high-tech resin. Quick-change screw to maneuver from clamp to spreader. Large, removable resin pads. Quick-release trigger.

BESSEY 1-HANDED BAR CLAMPS/SPREADERS

Turn a dial to change function from clamping to spreading. Large, flat clamping jaws have soft pads. Squeeze-molded handle for clamping/spreading.

BESSEY CLUTCH-STYLE BAR CLAMPS

2-pc. clutch plates and nickel-plated serrated rail with ergonomic wood handle help enable clamping in tight spaces. Powder-coated ductile cast-iron jaws have nonmarring pads. Double-Head Clamps provide 3-point clamping for extra stability.

BESSEY GSM SERIES BAR CLAMP SET 44ZL53

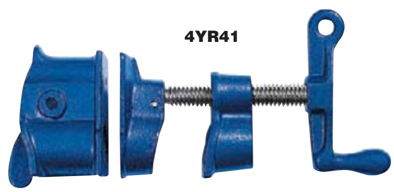
Clamps have 2660-lb. nominal change pressure. Set includes 2 of Mfr. GSM20, 2 of Mfr. GSM30, and 2 of Mfr. GSM40.

Cap. (in.)	Throat Depth (in.)	Spreading Range (in.)	Brand	Mfr. Model	Item No.
1-Handed Bar Clamps/Spreaders					
4 ¼ in	1 3⁄16 in	4 to 8	Irwin Quick-Grip	1964746	**52LA99**
6 in	2 7⁄16 in	—	Irwin Quick-Grip	1964743	**52LC03**
6 in	3 ¼ in	3 to 9	Bessey	DUO16-8	**6XE59**
6 in	3 ½ in	6½ to 13½	Bessey	EZS15-8	**19C743**
6 in	3 ¼ in	7½ to 13⅜	Irwin Quick-Grip	1964717	**52LA94**
6 in	3 ⅝ in	9¼ to 14⅞	Irwin Quick-Grip	1964711	**52LA88**
12 in	2 7⁄16 in	—	Irwin Quick-Grip	1964745	**52LC02**
12 in	3 ¼ in	3 to 14½	Bessey	DUO30-8	**6XE60**
12 in	3 ½ in	6½ to 19½	Bessey	EZS30-8	**19C744**
12 in	3 ¼ in	7½ to 13⅜	Irwin Quick-Grip	1964718	**52LA95**
12 in	3 ⅝ in	9¼ to 20⅞	Irwin Quick-Grip	1964712	**52LA89**
18 in	3 ¼ in	3 to 18½	Bessey	DUO45-8	**6XE61**
18 in	3 ½ in	6½ to 25½	Bessey	EZS45-8	**19C745**
18 in	3 ¼ in	7⅞ to 25⅜	Irwin Quick-Grip	1964719	**52LA96**
18 in	3 ⅝ in	9¼ to 26⅞	Irwin Quick-Grip	1964713	**52LA90**
24 in	3 ¼ in	3 to 25½	Bessey	DUO65-8	**6XE62**
24 in	3 ½ in	6½ to 31½	Bessey	EZS60-8	**19C746**
24 in	3 ¼ in	7⅞ to 31⅜	Irwin Quick-Grip	1964720	**52LA97**
24 in	3 ⅝ in	9¼ to 32⅞	Irwin Quick-Grip	1964714	**52LA91**
36 in	3 ½ in	6½ to 43½	Bessey	EZS90-8	**19C747**
36 in	3 ¼ in	7½ to 43¼	Irwin Quick-Grip	1964741	**52LA98**
36 in	3 ⅝ in	9¼ to 44⅞	Irwin Quick-Grip	1964715	**52LA92**
50 in	3 ⅝ in	9¼ to 58⅞	Irwin Quick-Grip	1964716	**52LA93**
Double Force Sliding Arm Clamp					
60 in	4 ¾ in	14 to 73	Bessey	SLV150M	**32PJ83**
Bar Clamp Set					
F-Style Sliding Arm			Bessey	CLSXHD-SET	**44ZL53**

Throat Depth (in.)	Load Cap. (lb.)	Brand	Mfr. Model	Item No.
Clutch Style Bar Clamps				
2 ½ in	600 lb	Bessey	GSCC2.506	**19C727**
2 ½ in	600 lb	Bessey	GSCC2.512	**19C728**
2 ½ in	600 lb	Bessey	GSCC2.524	**19C729**
2 ½ in	600 lb	Bessey	GSCC2.536	**19C730**
3 ½ in	1,100 lb	Bessey	GSCC3.512	**19C731**
3 ½ in	1,100 lb	Bessey	GSCC3.518	**19C732**
3 ½ in	1,100 lb	Bessey	GSCC3.524	**19C733**
5 in	1,200 lb	Bessey	GSCC5.012	**19C734**
5 in	1,200 lb	Bessey	GSCC5.018	**19C735**
5 in	1,200 lb	Bessey	GSCC5.024	**19C736**
Double Head Clutch Style Bar Clamps				
3 ½ in	400 lb	Bessey	DHBC-12	**19C737**
3 ½ in	400 lb	Bessey	DHBC-24	**19C738**
3 ½ in	400 lb	Bessey	DHBC-36	**19C739**

Westward® Bessey®

Pipe Clamps



4YR41

Multiple disc clutch provides instant adjustment and quick release. Clamps can be mounted on any length pipe (not included). Include frame, screw, handle, tip, and slide. 4YR40 and 4YR41 have spring lever to prevent slipping.

Description	Brand	Item No.
½" Clutch-Style Pipe Clamp	Westward	**4YR40**
¾" Chuck-Style Pipe Clamp	Bessey	**32PJ65**
¾" Clutch-Style Pipe Clamp	Westward	**4YR41**
¾" Crank H-Style High-Clearance Pipe Clamp	Bessey	**19C750**
1¾" Traditional Pipe Clamp	Bessey	**48ZY81**

3KB95

4CN92

3LE79

5A317

BESSEY WESTWARD IRWIN QUICK-GRIP

Spring Clamps and Handi-Clamps

Plastic w/2 Sliding Arms—Double-jaw, variable spring clamp features rapid-action sliding top and bottom jaws. Adjusts up to 6½". Made of lightweight polyamide plastic. Ergonomic, 2-component, antislip handle.

Plastic—Soft jaw pads and molded grooves in ergonomic handles. Made from high-tech resin.

Plastic Needle Nose—Long tapered nose design. Made of lightweight polyamide plastic. Ergonomic, 2-component, antislip handle.

Steel—Tempered steel spring and ergonomic design.

Handi-Clamps—QUICK-RELEASE trigger allows fast, easy positioning and easy jaw release. Jaws are specially designed to hold odd-shaped work pieces. High-tech resin construction.

Max. Jaw Opening (in.)	L (in.)	Brand	Item No.
Plastic w/2 Sliding Arms			
6 ½	7	Bessey	**3YNA5**
Plastic			
1	4	Westward	**3KB95**
2	6	Westward	**3KB96**
2	6 ¼	Bessey	**40P156**
3	8 7⁄64	Westward	**3KB97**
Plastic Needle Nose			
2	4 ¼	Bessey	**3YNA3**
3	8 ¾	Bessey	**3YNA4**
Steel			
1	4	Westward	**4CN91**
2	6	Westward	**4CN92**
3	9	Westward	**4CN93**

Max. Jaw Opening (in.)	L (in.)	Brand	Item No.
Steel w/Polyvinyl Handles and Tips			
1	4	Westward	**5A317**
2	6	Westward	**5A318**
3	9	Westward	**5A319**
Anti-slip, Ergonomic, Plastic Resin			
2	5 ¼	Irwin Quick-Grip	**3KKJ2**
3	8 ⅝	Irwin Quick-Grip	**3KKJ4**
Handi-Clamps Curved Bar			
	—	Irwin Quick-Grip	**3LE80**
	—	Irwin Quick-Grip	**3LE79**

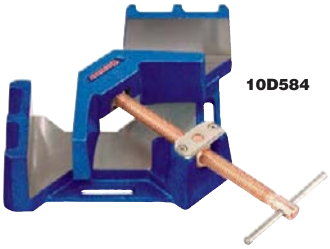
45RM37

Strap Clamp

BESSEY

Ideal for compressing and clamping irregularly shaped objects. The rugged polyester band applies equal pressure on all corners of an object without causing distortion. Includes 4 corner clips.

Description	Band Length (ft.)	Mfr. Model	Item No.
Strap Clamp	23	VAS-23+2K	**45RM37**
Replacement Strap Clamp Corner Clips, Pkg. 6	—	VAC-6	**5HXR1**


10D584

WESTWARD BESSEY WILTON

90° Angle Clamps

A self-centering jaw adjusts to clamp workpieces. Oblong holes in base for mounting.

Miter Cap. (in.)	Jaw Height (in.)	Jaw Length (in.)	Brand	Item No.
1 27⁄32	1 15⁄32	3 ½	Westward	**10D586**
1 ⅛	1 ⅛	4	Bessey	**48ZY79**
2 ¾	1 ⅜	2 ¼	Wilton	**6YA84**
2 7/15	2 7⁄16	—	Bessey	**8FLF3**
3 11⁄32	1 ⅜	4 ⅛	Wilton	**5C843**
3	½	2 ½	Bessey	**19C748**
3 ½	3	—	Westward	**39M996**
3 ½	1 ⅜	4	Bessey	**40P183**
4 ⅛	2 13⁄32	5 ¼	Westward	**10D584**
4 ⅜	2 ⅜	4 ⅛	Wilton	**4CN99**
4 ¾	2 ⅜	4 ½	Bessey	**40P184**

19C763

Toggle Clamps

BESSEY

Clamps automatically adjust to hold workpiece sizes up to 2⅜" (60mm). 700-lb. holding capacity. Integrated pressure screw allows 25- to 550-lb. of user-adjustable pressure. Spindle has M8 thread.

Arm	Height Under Arm (in.)	Overall H (in.)	Item No.
1 9⁄16 in Horizontal Low Profile	0.75	2	**19C762**
2⅜ in Horizontal High Profile	1.5	2.375	**19C763**
1 in Inline	0.75	1.625	**19C764**

23N366

KANT TWIST

Cantilever Clamps

T-handle and deep throat clamps have free-floating jaws that adjust to unparallel surfaces. They will not walk off center because there is no unsupported screw or loose pad. Copper-plated jaws and screws are ideal for welding. Clamps close completely. Stainless steel clamps are for corrosive and magnetic problem areas.

Max. Opening	Clamping Pressure	Throat Depth	Mfr. Model	Item No.
T-Handle				
1 in	350 lb	½ in	K010T	**23N366**
2 in	800 lb	1 ¼ in	K020T	**23N367**
3 in	1,500 lb	1 ¾ in	K030T	**23N368**
9 in	2,500 lb	5 ¼ in	K090T	**23N370**
12 in	6,000 lb	7 in	K120T	**23N371**
Deep Throat				
2 ½ in	700 lb	1 13⁄16 in	K025TD	**23N372**
4 ½ in	1,700 lb	3 ⅛ in	K045TD	**23N373**
10 in	3,500 lb	7 in	K100TD	**23N375**
Stainless Steel				
2 in	700 lb	1 ¼ in	K020TS	**23N376**
3 in	1,200 lb	1 ¾ in	K030TS	**23N377**
4 ½ in	1,500 lb	3 ⅛ in	K045TSD	**23N378**
Steel				
1 in	350 lb	½ in	K010R	**38NE15**
4 ¼ in	1,700 lb	2 ½ in	K045TPD	**38NE16**

For Use With	Item No.
Weaver Grips	
Clamps with 2 in and 2½ in Jaw Size	**23N380**
Clamps with 3 in and 4½ in Jaw Size	**23N381**
Clamps with 6 in Jaw Size	**23N382**

Face Frame Clamp

BESSEY

Face frame stiles can be tightened, aligned, predrilled, and fastened while the clamp is in place. Holds individual cabinet edges together while keeping the faces along the joint flush. Integrated pilot hole drilling guide on one end flips out of the way so you can drive screws to connect the cabinets without removing or repositioning the clamp. Features aluminum alignment plate, nonmarring felt pads, and ACME threaded screws.

Opening (in.)	Nom. Clamping Pressure	Throat Depth (in.)	W (in.)	Item No.
4 ¼	600	1 ¼	2 ½	**450G52**

Cast Iron
18G737

Light Duty
Double Head
19C755

Extra Heavy-Duty
5C833

Regular Duty
Deep Throat
18G713

Copper Plated
Spindle
24W081

C-Clamps

- Replacement parts are available on Grainger.com
- Wilton Hi-Viz clamps conform to OSHA safety color standards

Max. Opening	Throat Depth	Clamping Pressure	Brand	Item No.
Cast Iron				
Heavy Duty				
1 in	1 1⁄16 in	645 lb	Wilton	**41D484**
1 ½ in	1 ½ in	620 lb	Wilton	**41D485**
2 in	1 ⅛ in	800 lb	Wilton	**41D486**
2 ½ in	1 7⁄16 in	850 lb	Wilton	**41D487**
	2 ½ in	1,005 lb	Wilton	**41D488**
3 in	2 in	1,430 lb	Wilton	**41D489**
4 in	2 ¾ in	1,535 lb	Wilton	**41D490**
5 in	3 in	1,225 lb	Wilton	**41D491**
6 in	3 ¼ in	1,400 lb	Wilton	**41D492**
8 in	4 in	1,700 lb	Columbian	**41D493**
Regular Duty, Carriage				
2 ½ in	1 ¾ in	1,100 lb	Wilton	**18G735**
5 in	2 ½ in	2,250 lb	Wilton	**18G738**
14 in	3 ¾ in	2,850 lb	Wilton	**18G743**
Regular Duty				
1 in	1 in	375 lb	Westward	**10D518**
3 in	1 ⅞ in	1,800 lb	Westward	**2HUN2**
	1 ⅞ in	1,800 lb	Wilton	**18G736**
4 in	2 1⁄16 in	2,150 lb	Westward	**2LAY6**
	2 1⁄16 in	2,150 lb	Wilton	**18G737**
6 in	2 ¾ in	2,450 lb	Westward	**2LAY7**
	2 ¾ in	2,450 lb	Wilton	**18G739**
8 in	3 ¼ in	2,750 lb	Wilton	**18G740**
	3 ¼ in	2,750 lb	Westward	**2LAY8**
10 in	3 ⅝ in	2,850 lb	Wilton	**18G741**
	3 ⅝ in	2,850 lb	Westward	**10D515**
12 in	3 ⅝ in	2,850 lb	Wilton	**18G742**
	3 ⅝ in	2,850 lb	Westward	**10D516**
Light Duty, Extra Deep Reach Carriage				
2 ½ in	4 ¾ in	1,600 lb	Wilton	**18G748**
	6 ¼ in	1,600 lb	Wilton	**18G749**
Light Duty, Deep Reach Carriage				
1 in	3 in	350 lb	Wilton	**18G744**
2 in	3 ½ in	450 lb	Wilton	**18G745**
2 ½ in	4 in	600 lb	Wilton	**18G746**
3 in	4 ½ in	700 lb	Wilton	**18G747**
Light Duty, Quick Release				
3 ½ in	1 ¾ in	1,200 lb	Bessey	**19C751**
4 ⅜ in	2 ¼ in	1,200 lb	Bessey	**19C752**
6 ⅝ in	3 ⅞ in	1,200 lb	Bessey	**19C753**
Light Duty, Double Head				
4 in	2 ¼ in	1,200 lb	Bessey	**19C754**
6 in	2 ⅞ in	1,200 lb	Bessey	**19C755**
Light Duty, Three-Way				
2 ½ in	2 ½ in	300 lb	Bessey	**19C749**
Light Duty				
8 in	3 ⅜ in	1,700 lb	Westward	**2LAZ4**
Light Duty, Junior				
1 ¼ in	1 3⁄16 in	550 lb	Wilton	**41D495**
2 ½ in	2 5⁄16 in	550 lb	Wilton	**41D496**
Forged Steel				
Extra Heavy Duty, Square Head Spindle				
1 ⅜ in	1 3⁄32 in	5,600 lb	Wilton	**24W105**
1 ¾ in	1 7⁄16 in	8,750 lb	Wilton	**24W106**
2 ⅜ in	1 ⅞ in	12,500 lb	Wilton	**24W107**
3 5⁄16 in	2 5⁄16 in	16,250 lb	Wilton	**24W108**
4 ½ in	2 ¾ in	20,000 lb	Wilton	**24W109**
5 ½ in	3 ⅛ in	23,800 lb	Wilton	**24W110**
6 ½ in	3 ⅜ in	27,500 lb	Wilton	**24W111**
8 ½ in	3 ⅝ in	31,250 lb	Wilton	**24W112**
10 ½ in	3 15⁄16 in	35,000 lb	Wilton	**24W113**
12 ⅜ in	4 ¼ in	40,000 lb	Wilton	**24W114**
Extra Heavy Duty, Square Head T-Handle				
3 in	2 in	8,750 lb	Wilton	**5C831**
4 in	2 ¼ in	10,000 lb	Wilton	**5C832**
6 in	2 ½ in	11,250 lb	Wilton	**5C833**
8 in	2 ¾ in	12,500 lb	Wilton	**6YA88**
10 in	2 ⅞ in	13,750 lb	Wilton	**18G691**
12 in	2 15⁄16 in	15,000 lb	Wilton	**18G692**
Heavy Duty, Square Head T-Handle				
6 ¼ in	2 ⅞ in	11,250 lb	Westward	**10D475**
7 ¼ in	3 ⅞ in	12,250 lb	Westward	**10D476**
11 ⅝ in	5 in	15,000 lb	Westward	**10D479**
Regular Duty, Extra Deep Throat, Black Oxide Spindle				
4 in	3 ¼ in	6200 lb	Westward	**2HUK1**
	4 in	4,100 lb	Wilton	**18G726**
6 in	4 ⅛ in	6,600 lb	Westward	**2HUK2**
	5 in	5,400 lb	Wilton	**18G727**
8 in	5 in	6,900 lb	Westward	**2HUK3**
	6 in	5,900 lb	Wilton	**18G728**
10 in	6 in	8,000 lb	Westward	**2HUK4**
12 in	6 ¼ in	9,300 lb	Westward	**2HUK5**
Regular Duty, Deep Throat, Black Oxide Spindle				
2 ⅛ in	2 ¼ in	3,500 lb	Wilton	**18G712**
3 in	2 ½ in	3,500 lb	Wilton	**18G713**
4 ¼ in	3 ¼ in	6,200 lb	Wilton	**18G714**
6 1⁄16 in	4 ⅛ in	6,600 lb	Wilton	**18G715**
8 ¼ in	5 in	6,900 lb	Wilton	**18G716**
10 ⅛ in	6 in	8,000 lb	Wilton	**18G717**
12 ¼ in	6 5⁄16 in	9,300 lb	Wilton	**18G718**
Regular Duty, Deep Throat, Copper Plated Spindle				
2 ⅛ in	2 ⅜ in	3,500 lb	Wilton	**24W081**
3 in	2 ½ in	3,500 lb	Wilton	**24W083**
8 ¼ in	5 in	6,900 lb	Wilton	**41D477**
10 ⅛ in	6 in	8,000 lb	Wilton	**24W091**
12 ¼ in	6 5⁄16 in	9,300 lb	Wilton	**24W093**
Regular Duty, Deep Throat, Spark Duty, Copper Plated Spindle				
4 ¼ in	3 ¼ in	6,200 lb	Wilton	**41D475**
6 1⁄16 in	4 ⅛ in	6,600 lb	Wilton	**41D476**
Regular Duty, Black Oxide Spindle				
2 in	1 13⁄16 in	2,700 lb	Wilton	**18G704**
Regular Duty, Galvanized Spindle				
6 in	3 ½ in	1,100 lb	Westward	**10D646**
Regular Duty, Hi-Viz Yellow, Black Oxide Spindle				
2 ⅛ in	2 ¼ in	3,500 lb	Wilton	**18G719**
3 in	2 ½ in	3,500 lb	Wilton	**18G720**
4 ¼ in	3 ¼ in	6,200 lb	Wilton	**18G721**
6 1⁄16 in	4 ⅛ in	6,600 lb	Wilton	**18G722**
8 ¼ in	5 in	6,900 lb	Wilton	**18G723**
10 ⅛ in	6 in	8,000 lb	Wilton	**18G724**
12 ¼ in	6 5⁄16 in	9,300 lb	Wilton	**18G725**
Regular Duty, Hi-Viz Yellow, Copper Plated Spindle				
2 in	2 in	3,500 lb	Wilton	**41D478**
3 in	2 ⅜ in	3,500 lb	Wilton	**41D479**
4 in	2 ¾ in	6,200 lb	Wilton	**41D480**
6 in	3 ⅝ in	6,600 lb	Wilton	**24W144**
8 in	4 ½ in	6,900 lb	Wilton	**41D481**
10 in	5 ⅜ in	8,000 lb	Wilton	**41D482**
12 in	5 ¾ in	9,500 lb	Wilton	**41D483**
Regular Duty, Black Oxide Spindle				
3 in	1 15⁄16 in	3,000 lb	Wilton	**18G705**
4 in	2 5⁄16 in	3,700 lb	Wilton	**18G706**
6 in	2 15⁄16 in	4,500 lb	Wilton	**18G707**
8 in	3 7⁄16 in	5,200 lb	Wilton	**18G708**
10 in	3 ¾ in	6,000 lb	Wilton	**18G709**
12 in	3 ⅞ in	8,000 lb	Wilton	**18G710**
Regular Duty, Copper Plated Spindle				
3 in	2 7⁄16 in	2,880 lb	Westward	**10D540**
Light Duty				
1 in	1 ⅛ in	500 lb	Westward	**2HUJ3**
	1 in	500 lb	Wilton	**41D497**
1 ¼ in	1 ¼ in	800 lb	Wilton	**41D498**
1 ½ in	1 ½ in	850 lb	Wilton	**41D499**
2 in	1 ¼ in	875 lb	Westward	**2HUJ5**
2 ½ in	2 ½ in	850 lb	Wilton	**41D503**
3 in	1 ⅜ in	1,100 lb	Westward	**2HUJ6**

Description	Brand	Item No.
C-Clamp Kit		
V-Grooved, High Visibility Yellow, Regular Duty, 2 in, 3 ⅝ in, 3 ¾ in, 4 ½ in Throat Depth	Wilton	**48FX59**
Flat, Black, Light Duty, 1 ¾ in, 2 1⁄16 in, 2 ¾ in, 3 ¼ in Throat Depth	Wilton	**48FX60**

10D624

2JFW5

2JFU1

3YNA2

19C713

5HXN9

Max. Jaw Opening (in.)	Throat Depth (in.)	Nom. Rail Size (in.)	Nom. Clamping Pressure (lb.)	Pad Type	Brand	Mfr. Model	Item No.
L-Clamps							
Rapid-Action Lever							
4	2 3/8	19/32 x 15/64	400 lb	Pivoting	Bessey	LC4	**2JFW9**
8	4	55/64 x 11/32	660 lb	Pivoting	Bessey	LC8	**2JFX1**
8	4	3/4 x 3/8	550	N/A	Westward	—	**10D552**
12	5 1/2	1 x 15/32	960	N/A	Westward	—	**10D553**
12	5 1/2	1 7/64 x 7/16	1,200 lb	Pivoting	Bessey	LC12	**2JFX2**
Medium-Duty							
16	6 7/8	1 17/32 x 25/32	4,500	Hex Head, Swivel	Westward	—	**10D624**
Light-Duty							
8	4 3/4	7/8 x 7/16	1,500 lb	Smooth, Swivel	Westward	—	**2FGN7**
10	4 3/4	1 3/16 x 9/16	2,600 lb	Smooth, Swivel	Westward	—	**2FGN8**
12	4 3/4	1 3/16 x 9/16	2,600 lb	Smooth, Swivel	Westward	—	**2FGN9**
F-Clamps							
Heavy-Duty Professional							
12	7	1 9/16 x 25/32	4,880 lb	Swivel Morpad	Bessey	4800S-12	**2JFW5**
18	7	1 9/16 x 25/32	4,880 lb	Swivel Morpad	Bessey	4800S-18	**2JFW6**
18	7	1 37/64 x 25/32	4,880 lb	Standard	Bessey	STB-18	**44ZL49**
24	7	1 9/16 x 25/32	4,880 lb	Swivel Morpad	Bessey	4800S-24	**2JFW7**
36	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad, Tilts 35°	Bessey	2400S-36	**40P161**
36	7	1 37/64 x 25/32	4,880 lb	Standard	Bessey	STB-36	**44ZL51**
36	7	1 5/8 x 3/4	4,830	Hexagonal	Westward	—	**10D569**
Medium-Duty							
6	4 3/4	7/8 x 7/16	800	Smooth	Westward	—	**10D556**
Regular-Duty w/Ergonomic Grip							
8	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad	Bessey	2400S-8	**2JFT9**
12	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad	Bessey	2400S-12	**2JFU1**
12	8	1 3/16 x 19/32	1,770 lb	Swivel Morpad	Bessey	DT2400-12	**2JFU5**
16	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad	Bessey	2400S-16	**2JFU2**
20	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad	Bessey	2400S-20	**2JFU3**
24	5 1/2	1 11/32 x 1/2	2,800 lb	Swivel Morpad	Bessey	2400S-24	**2JFU4**
24	8	1 3/16 x 19/32	1,770 lb	Swivel Morpad	Bessey	DT2400-24	**2JFU6**
Regular-Duty							
12	5 1/2	1 x 15/32	1,300	Smooth	Westward	—	**10D559**
12	5 1/2	13/16 x 9/16	2,750	Smooth	Westward	—	**10D560**
Shop Floor Series							
4	2 1/4	17/32 x 1/4	400 lb	Standard, Swivel	Bessey	MMS-4	**2JFU7**
8	2 1/4	17/32 x 1/4	400 lb	Standard, Swivel	Bessey	MMS-8	**2JFU8**
Sliding-Arm Bar Clamps/Spreaders							
Industrial-Duty Reversible Angle w/Ergonomic Grip							
12	4 3/4	1 3/16 x 19/32	2,600 lb	Replaceable, Swivel	Bessey	SG30VAD	**3YNA2**
MaxFlex Antivibration Cross-Over w/Ergonomic Grip							
8	4	49/64 x 3/8	770 lb	Swivel	Bessey	RSC-8	**2JFV7**
12	5 1/2	63/64 x 15/32	1,100 lb	Swivel	Bessey	RSC-12	**2JFV8**
18	4 3/4	63/64 x 15/32	1,100 lb	Swivel	Bessey	RSC-18	**2JFV9**
Extra Heavy-Duty							
12	8	2 x 1	7,770	Swivel MorPad	Bessey	7200S-12	**19C710**
14	4	1 1/2 x 3/4	8,500	Swivel MorPad	Bessey	8500HPC-14	**19C712**
18	8	2 x 1	7,770	Swivel MorPad	Bessey	7200S-18	**19C711**
Heavy-Duty, Quick-Adj Steel Bar Clamp							
12	6 7/8	1 17/32 x 25/32	4,500	Swivel	Westward	—	**10D566**
Regular-Duty							
9	5 1/2	1 3/16 x 19/32	2,660	Heavy Duty, Swivel	Bessey	GSM25	**19C722**
12	4 3/4	1 1/6 x 33/64	1,880	Heavy Duty, Swivel	Bessey	GSL30	**19C720**
12	5 1/2	1 3/16 x 19/32	2,660	Heavy Duty, Swivel	Bessey	GSM30	**19C723**
16	5 1/2	1 3/16 x 19/32	2,660	Heavy Duty, Swivel	Bessey	GSM40	**19C724**
20	5 1/2	1 3/16 x 19/32	2,660	Heavy Duty, Swivel	Bessey	GSM50	**19C725**
24	4 3/4	1 1/6 x 33/64	1,880	Heavy Duty, Swivel	Bessey	GSL60	**19C721**
24	5 1/2	1 3/16 x 19/32	2,660	Heavy Duty, Swivel	Bessey	GSM60	**19C726**
40	4 3/4	1 5/32 x 19/32	2,500	Hex Head, Swivel	Westward	—	**10D616**
Light-Duty							
4	3 1/8	5/8 x 19/64	550	Standard, Swivel	Bessey	GS12-8K	**19C713**
6	3 1/8	5/8 x 19/64	550	Standard, Swivel	Bessey	GS16K	**19C714**
6	4 3/4	7/8 x 15/32	1,000	Standard, Swivel	Bessey	GS16-12K	**19C715**
8	4	49/64 x 3/8	880	Standard, Swivel	Bessey	GS20K	**19C716**
10	4 3/4	55/64 x 13/32	1,000	Standard, Swivel	Bessey	GS25K	**19C717**
12	5 1/2	63/64 x 15/32	1,200	Standard, Swivel	Bessey	GS30K	**19C718**
24	4 3/4	63/64 x 15/32	1,200	Standard, Swivel	Bessey	GS60K	**19C719**
Light-Duty, Step Over, U-Style Bar Clamp							
4	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.004	**19C740**
6	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.006	**19C741**
8	2	19/32 x 3/16	330	Non-Marring, Swivel on Anvil Surface	Bessey	LMU2.008	**19C742**
Deep Reach, Flat Rail Sliding Arm Bar Clamp							
24	12	1 49/64 x 15/32	1,550	Standard	Bessey	CDS24-12WP	**19C760**
Ratcheting Sliding Arm Clamps							
4	3	25/32 x 13/64	260 lb	Pivoting	Bessey	KLI3.004	**5HXN9**
8	3	25/32 x 13/64	260 lb	Pivoting	Bessey	KLI3.008	**5HXP0**
12	3	25/32 x 13/64	260 lb	Pivoting	Bessey	KLI3.012	**5HXP1**
Step-Over J-Clamps							
Regular-Duty							
12	5 1/2	1 3/16 x 19/32	2,660 lb	Morpad, Swivel	Bessey	2400J-12	**2JFW2**
Light-Duty w/Ergonomic Grip							
10	4 3/4	7/8 x 13/32	880 lb	Standard, Swivel	Bessey	J18-8	**2JFW8**
Bar Clamp Set							
F-Style Sliding Arm, Forged Steel					Bessey	CLSX-SET	**44ZL52**
Clamp Accessories							
Variable Angle Device					Bessey	VAD	**5HXR6**

BESSEY WESTWARD

L-, F-, Sliding-Arm Bar and J-Clamps

L-Clamps—Adjustable, rapid-acting sliding arm. All-steel, spring-tempered design. Hardened alloy steel spindles resist weld spatter. Adjustable swivel pads tilt to accommodate angular workpieces. Vibration-resistant.

F-Clamps—Heat-treated, spatter-resistant spindle and replaceable swivel-tilting pressure pad. 2JFU5 and 2JFU6 provide larger throat depth (reach).

Sliding-Arm Bar Clamps—Heat-treated, spatter-resistant spindle, swivel-tilting pressure pad, and a vibration-dampening design. Arc of the curve enables rail to hug workpiece. Fixed arm and pressure plate are tempered steel. 3YNA2 can be used at various angles for compressing and spreading.

Locking Clamps—Plier Style

IRWIN VISE-GRIP WESTWARD

Nickel-plated, heat-treated alloy steel clamps have micro-adjustment screw mechanism.

LOCKING C-CLAMPS

For welding sheet metal or woodwork. Swivel pads help to protect work surfaces. Large capacity 9" clamp has extra throat width and depth for greater reach.

LOCKING CHAIN CLAMPS

Hold and lock around any size or shape—won't slip or crush thin-walled pipe. Adjust in either direction.

LOCKING CLAMP SETS

1-handed locking mechanism, easy-turning adjusting screw, and spring-loaded release lever.

5-Pc. Sets—5MD28 includes (1) 10R locking pliers, (2) 11R C-clamps, and (2) 6R C-clamps. 2FDD4 includes (2) 2FDC6 6-in., (1) 10-in., and (2) 2FDD1 11-in. locking C-clamps.

LOCKING SHEET METAL CLAMPS

For bending, forming, and crimping jobs.

LOCKING WELDING CLAMPS

Clamps pipe, bars, or other metal work for welding or riveting. Deep-throated design; U-shaped jaws increase visibility and working space.

2RKN7

6C664

2FDD4

2FDC2

3A515

Description	Max. Opening	Throat Depth	Clamping Force	Nominal Clamp Size	Brand	Mfr. Model	Item No.
Locking C-Clamps							
4 in with Swivel Pads	1⅝"	1 ¼ in	Not Rated	4 in	Irwin Vise-Grip	4SP	**2H125**
4 ½ in with Swivel Pads	1⅝"	1 ¼ in	Not Rated	4 in	Westward	—	**2FDC5**
6 ⅜ in, Steel	2"	1 ⅛ in	500 lb	6 in	Westward	—	**2FDC6**
6 in with Swivel Pads	2⅛"	1 ½ in	Not Rated	6 in	Irwin Vise-Grip	6SP	**2H127**
7 ⅝ in with Swivel Pads	2"	1 ⅛ in	500 lb	6 in	Westward	—	**2FDC7**
9 in with Swivel Pads	4½"	4 ¾ in	Not Rated	9 in	Irwin Vise-Grip	9SP	**4JA65**
9 in Large Capacity	4½"	4 ¾ in	Not Rated	9 in	Irwin Vise-Grip	9DR	**5MD51**
10 ⅛ in Steel	3⅛"	2 ¼ in	900 lb	10 in	Westward	—	**2FDC9**
10 ⅛ in with Swivel Pads	3⅛"	2 ¼ in	900 lb	10 in	Westward	—	**2FDC8**
10 ¾ in Steel	3⅜"	2 ¼ in	900 lb	11 in	Westward	—	**2FDD1**
11 in Steel	3⅜"	2 ⅝ in	Not Rated	11 in	Irwin Vise-Grip	11R	**3A517**
11 in with Swivel Pads	3⅜"	2 ⅝ in	Not Rated	11 in	Irwin Vise-Grip	11SP	**6C663**
11 ⅜ in with Swivel Pads	3⅜"	2 ¼ in	900 lb	11 in	Westward	—	**2FDD2**
12 ¼ in, Regular Duty	900 lb.	1 ¾ in	900 lb	12 in	Westward	—	**45W340**
18" Deep Reach	7½"	9 ½ in	2000 lb	18 in	Irwin Vise-Grip	18DR	**2H123**
18 in Locking C-Clamp w/Swivel Pad	8"	9 ½ in	2000 lb	18 in	Irwin Vise-Grip	18SP	**2RKN6**
18 in Locking C-Clamp	8"	9 ½ in	2000 lb	18 in	Irwin Vise-Grip	18R	**2RKN7**
24 in with Swivel Pads	10"	15 ½ in	2000 lb	24 in	Irwin Vise-Grip	28	**3KKL7**
24 in Locking C-Clamp	10"	15 ½ in	2000 lb	24 in	Irwin Vise-Grip	275	**3KKL3**
Locking Chain Clamps							
8 ¾ in Steel	3 ⅜ in	1 ¼ in	Not Rated	9 in	Westward	—	**2FDC3**
9 in Steel	3 ⅜ in	—	Not Rated	9 in	Irwin Vise-Grip	20R	**6C664**
Locking Clamp Sets							
2-pc., 11" with Swivel Pads	2½"	2 ⅝ in	Not Rated	11 in	Westward	—	**4YR39**
2-pc. 9" with 4 Swivel Pads	4½"	4 ¾ in	Not Rated	9 in	Irwin Vise-Grip	45619	**10J866**
5-pc. C-Clamp Set	—	1 ⅞ in, 2 ⅛ in, 4 in	Not Rated	(2) 11 in, (1) 10 in, (2) 6 in	Irwin Vise-Grip	74	**5MD28**
5-pc. C-Clamp Set	—	5 ½ in	Not Rated	(1) 10 in, (2) 6 in, (2) 11 in	Westward	—	**2FDD4**
8-pc. Locking Clamp Set	2⅛, 3⅜, 9½"	2 ⅝ in, 1 ½	Not Rated	6 in, 11 in, 18 in, 24 in	Irwin Vise-Grip	8107ZR	**10J871**
Locking Sheet Metal Clamps							
7 ¾ in Steel	½ in	1 ¾ in	1000 lb	8 in	Westward	—	**2FDC2**
8 in Steel	3 ⅛ in	1 ¾ in	Not Rated	8 in	Irwin Vise-Grip	8R	**3A514**
Locking Welding Clamps							
9 in Steel	2 ¾ in	1 ⅝ in	Not Rated	9 in	Irwin Vise-Grip	9R	**3A515**
9 in Chrome Vanadium Steel	1 ⅝ in	1 ⅝ in	Not Rated	9 in	Westward	—	**2HMV2**
Replacement Chains							
18"	—	—	—	—	Westward	—	**2FDC4**
18"	—	—	Not Rated	18 in	Irwin Vise-Grip	40REP	**6C665**

BESSEY

Locking Clamps—Sliding Arm Style

Sliding-arm chrome-vanadium steel SuperGrips jaws automatically adjust to remain parallel with each other. Handles have pressure adjustment screw and plastic-coated release levers. Ergonomically designed to prevent kickbacks.

Standard SuperGrips—Both models have a sliding-arm clamp jaw adjustment with grip-pliers design and removable nylon jaw pads.

Deep Reach—J-shaped jaws clamp over angle iron, channel iron, and other assemblies/obstructions.

6XE65

6XE67

6XE66

Description	Max. Opening	Throat Depth	Clamping Force	Nominal Clamp Size	Mfr. Model	Item No.
8 in Standard SuperGrips™	4 in	2 ½ in	440 lb	8 in	SG4	**6XE65**
10 in Standard SuperGrips™	8 in	2 ½ in	440 lb	10 in	SG8	**6XE67**
11 in Deep Reach	4 ½ in	3 in	310 lb	11 in	SG5-DR	**6XE66**

Curved Jaw Fast Release 54ZF97

Locking 1ECG3

Straight Jaw 1ATK1

V-Jaw 10J875

Locking Pliers

All have guarded release trigger and adjusting screw. Heat treated alloy steel.

Fast-Release—1-handed release and locking functions with adjusting screw.

Curved Jaw—Use as wire cutter, pipe or speed wrench, clamp, pliers, or for holding small objects.

Straight Jaw—Lock to stud bolts for easy removal and to heavy-gauge wire for twisting.

V-Jaw—Ideal for twisting and turning applications.

L	Jaw Cap.	Jaw Thickness	Wire Cutter	Brand	Item No.
Curved Jaw Fast Release Locking Pliers					
Ergonomic Handle					
—	1⅛ in	¼ in	Yes	Irwin Vise-Grip	54ZF97
—	1½ in	⅜ in	Yes	Irwin Vise-Grip	54ZF96
—	1⅝ in to 2¼ in	½ in	Yes	Irwin Vise-Grip	54ZG05
—	1⅞ in	½ in	Yes	Irwin Vise-Grip	54ZF95
Curved Jaw Locking Pliers					
Ergonomic Handle					
5"	1⅛ in	¼ in	Yes	Westward	1ECF8
7"	1½ in	¼ in	Yes	Westward	1ECF9
10"	1⅞ in	⅜ in	Yes	Westward	1ECG1
Plain Handle					
4"	1 in	⅛ in	Yes	Irwin Vise-Grip	4NV41
5"	1⅛ in	¼ in	Yes	Westward	1ECE4
5"	1⅛ in	¼ in	Yes	Irwin Vise-Grip	1A419
7"	1½ in	¼ in	Yes	Westward	1ECE5
7"	1½ in	⅜ in	Yes	Irwin Vise-Grip	1A420
10"	1⅞ in	⅜ in	Yes	Westward	1ECE6
10"	1⅞ in	7/16 in	Yes	Irwin Vise-Grip	1A421
12"	3⅛ in	½ in	No	Irwin Vise-Grip	2H121
Fast Release Locking Pliers					
Ergonomic Handle					
—	2¼ in	⅜ in	Yes	Irwin Vise-Grip	54ZF99
—	2⅞ in	¼ in	Yes	Irwin Vise-Grip	54ZF98
Locking Pliers					
Ergonomic Handle					
6"	2 in	⅜ in	Yes	Westward	1ECG3
Plain Handle					
4"	1½ in	¼ in	Yes	Westward	1ECF1
4"	1⅝ in	¼ in	Yes	Irwin Vise-Grip	4NV42
6"	2 in	⅜ in	Yes	Westward	1ECF2

L	Jaw Cap.	Jaw Thickness	Wire Cutter	Brand	Item No.
6"	2¼ in	⅜ in	Yes	Irwin Vise-Grip	1A422
9"	2¾ in	½ in	Yes	Westward	1ECF3
9"	2⅞ in	9/16 in	Yes	Irwin Vise-Grip	1A423
Locking Sheet Metal Clamp					
Plain Handle					
9"	⅜"	¼ in	No	Irwin Vise-Grip	3WEL1
Straight Jaw Fast Release Locking Pliers					
Ergonomic Handle					
—	1 5/16 in	⅜ in	No	Irwin Vise-Grip	54ZF94
—	1⅞ in	½ in	No	Irwin Vise-Grip	54ZF93
Straight Jaw Locking Pliers					
Ergonomic Handle					
10"	1¾ in	⅝ in	No	Westward	1ECG2
Plain Handle					
7"	1 in	¼ in	No	Irwin Vise-Grip	1ATK1
7"	1 5/16 in	⅜ in	No	Irwin Vise-Grip	4CHV7
7"	1½ in	½ in	No	Westward	1ECE8
10"	1¾ in	½ in	No	Irwin Vise-Grip	4CHV6
V-Jaw Fast Release Locking Pliers					
Ergonomic Handle					
—	1⅛ in	¼ in	No	Irwin Vise-Grip	54ZF92
—	1½ in	⅜ in	Yes	Irwin Vise-Grip	54ZF91
—	1⅞ in	½ in	Yes	Irwin Vise-Grip	54ZF90
V-Jaw Locking Pliers					
Plain Handle					
5"	1⅛ in	¼ in	No	Irwin Vise-Grip	10J875
7"	7/16 in to ¾ in	½ in	Yes	Irwin Vise-Grip	4NV39
7"	1½ in	⅜ in	Yes	Irwin Vise-Grip	4CHV5
10"	⅝ in to 1⅛ in	⅝ in	Yes	Irwin Vise-Grip	4NV38
10"	1⅞ in	½ in	Yes	Irwin Vise-Grip	4CHV4

6C667

32TR83

4EAC2

Locking Plier Sets

No. of Pieces	Includes	Item No.
Irwin Vise-Grip		
2	6LN, No. 7WR	10J864
2	5WR, No. 10WR	10J865
2	10WR, No. 7WR	45PD80
3	5CR, 6LN, No. 10WR	6C666
3	5WR, 7CR, 8-in-1 Screwdriver, No. 10R	10J867
3	5CR, 7CR, No. 10CR	10J868
3	10WR, 7R, No. 6LN	45PD82
3	7R, 9LN, Bag, No. 10WR	54ZG08
4	5WR, 6LN, 7R, No. 10CR	6C667
4	5WR, 6LN, 7R, Bag, No. 10CR	54ZG09
5	10CR, 5CR, 6LN, 7WR, No. 10R	4JA66
5	10WR, 5WR, 6LN, 7CR, Kit Bag, No. 10R	10J870
5	10CR, 5WR, 6LN, 7WR, Bag, No. 10R	54ZG10
7	10LW, 12LC, 5CR, 6LN, 7LW, 7R, No. 10CR	4NV47

No. of Pieces	Includes	Item No.
7	10CR, 5WR, 6LN, 7R, 7WR, 9LN, Bag, No. 10R	54ZG12
10	Manufacturer Database Extract	10J872
10	Manufacturer Database Extract	10J873
10	10WR, 11R, 5WR, 6LN, 6R, 7CR, 7R, 7WR, 9LN, No. 10R, Tray	54ZG13
Milwaukee		
2	7 in Locking Plier, 10 in Locking Plier	32TR83
2	10 in Curved Jaw Plier, 6 in Long Nose Plier	52AY50
Proto		
3	Canvas Tool Pouches, Locking Curved Jaw Pliers 9 ¼ in, Locking Mini Long Nose Pliers 6 29/32 in, Locking Straight Jaw Pliers 7 15/32 in	4EAC2
Westward		
3	10 in Curved Jaw, 5 in Curved Jaw, 6 in Long Nose	1ECF5
5	10 in Curved Jaw, 10 in Straight Jaw, 5 in Curved Jaw, 6 in Long Nose, 7 in Curved Jaw	1ECG5

Plier Sets

Channellock—Right-angle, laser-hardened teeth grip in all directions. Undercut tongue-and-groove design assures strong no-slip jaw action. Feature Channellock Blue comfort grips. Electronic coating for rust protection.

Knipex—Self-locking, nonslip guard prevents fingers from being pinched. Chrome vanadium steel.

Westward—Hardened and tempered steel.

4CR44

1UKP4

2DYW9

No. of Pieces	Description	Item No.
Channellock		
Plier Sets		
3	7 ½ in Needle Nose Plier, 8 in High Leverage Diagonal Cutting Plier, 9 ½ in V-Jaw Tongue & Groove Plier	10N539
3	10 in Flat Jaw Tongue & Groove Plier, 7 in Diagonal Cutting Plier, 8 in Needle Nose Plier	38GU18
3	10 in Flat Jaw Tongue & Groove Plier, 7 in High Leverage Diagonal Cutting Plier, 8 in Needle Nose Plier	3UWD8
3	10 in V-Jaw Tongue & Groove Plier, 7 ½ in Needle Nose Plier, 8 in High Leverage Diagonal Cutting Plier	10N538
5	6 ½ in Slip Joint Plier, 7 ¾ in High Leverage Diagonal Cutting Plier, 8 in Needle Nose Plier, 9 ½ in Wire Crimper, 9 ½ in Flat Jaw Tongue & Groove Plier	3UWD3
5	10 in Flat Jaw Tongue & Groove Plier, 6 ½ in Slip Joint Plier, 7 in High Leverage Diagonal Cutting Plier, 8 in Needle Nose Plier, 9 ½ in Flat Jaw Tongue & Groove Plier	3ZZV4
5	10 in Tongue and Groove Code Blue(R), 8 in Diagonal, 8 in Long Nose, 9 in Linesman	1YHN1
Plier Wrench Sets		
8	10 in Adjustable Wrench, 10 in V-Jaw Tongue & Groove, 12 in V-Jaw Tongue & Groove, 6 in Diagonal Cutting Plier, 6 in Slip Joint Plier, 6.5 in V-Jaw Tongue & Groove, 8 in Needle Nose Plier, 9 in High Leverage Lineman's Plier	10N540
Tongue and Groove Plier Sets		
2	10 in V-Jaw Tongue & Groove Pliers, 6 ½ in V-Jaw Tongue & Groove Pliers	10N543
2	420® 9.5 in Straight Jaw Tongue & Groove Pliers, 426 6.5 in Straight Jaw Tongue & Groove Pliers	4CR44
2	GL10 9.5 in GRIPLOCK® Tongue & Groove Pliers, GL12 12.5 in GRIPLOCK® Tongue & Groove Pliers	3KGX8
3	12 ½ in Tongue & Groove Pliers, 6 ½ in Tongue & Groove Pliers, 9 1/25 in Tongue & Groove Pliers	3JZC9
3	12 in V-Jaw Tongue & Groove Pliers, 6 ½ in V-Jaw Tongue & Groove Pliers, 9 ½ in V-Jaw Tongue & Groove Pliers	10N537
3	GL10 9.5 in GRIPLOCK® Tongue & Groove Pliers, GL12 12.5 in GRIPLOCK® Tongue & Groove Pliers, GL6 6.5 in GRIPLOCK® Tongue & Groove Pliers	1YHL9
4	12 in Tongue & Groove Pliers, 16 ½ in Tongue & Groove Pliers, 4 ½ in Tongue & Groove Pliers, 6 ½ in Tongue & Groove Pliers	38GU20
Knipex		
Long Nose Plier Sets		
3	7" Bent Long Nose, 8" Dolphin Long Nose, 8" Hose Grip Pliers	38UU04
Plier Sets		
3	7 in Lineman's Plier, 6 ¼ in Diagonal Cutting Plier, 8 in Chain Nose Plier	38UT26
3	8 in Chain Nose Plier, 8 in High Leverage Diagonal Cutting Plier, 10 in Water Pump Plier	2DYW6
3	8 in Chain Nose Plier, 8 in High Leverage Diagonal Cutting Plier, 10 in Water Pump Plier	2DYW7
3	Combination Plier, Diagonal Cutter, Water Pump Plier	38UT25
3	Combination Plier, Diagonal Cutter, Water Pump Plier	38UT24
Plier Wrench Sets		
2	(1) Mini Pliers Wrench, (1) Water Pump Plier, Belt Tool Pouch	30WJ80
3	(3) Pliers and Wrench in a Single Tool	10N811
3	10 in Plier Wrench, 6 in Plier Wrench, 7 in Plier Wrench	10U089
Precision Plier Sets		
4	4 ¾ in Mini Head Diagonal Cutting Plier, 5 ¼ in Chain Nose Plier, 5 in Pointed Head Diagonal Cutting Plier, 5 in Oval Head Diagonal Cutting Plier	38UU03
6	4 ½ in Chain Nose Plier, 4 ½ in Electrical Diagonal Cutting Plier, 4 ½ in Flat Nose Plier, 4 ½ in Round Nose Plier, 4 ¾ in End Cutting Nipper, Precision Tweezers	38UT28
6	4 ¾ in Mini Head Diagonal Cutting Plier, 5 in Chain Nose Plier, 5 in Flat Nose Plier, 5 in Pointed Head Diagonal Cutting Plier, 5 in Round Head Diagonal Cutting Plier, 5 in Round Nose Plier	38UT27
8	4 ½ in Electrical Diagonal Cutting Plier, 4 ½ in Chain Nose Plier, (6) Electronics Screwdrivers	38UT29
8	4 ½ in Electrical Diagonal Cutting Plier, 4 ½ in Chain Nose Plier, (6) Electronics Screwdrivers	38UT30
Water Pump Plier Sets		
3	7¼", 10" & 12" Alligator® Slide Groove Pliers	2DYW9
3	7¼", 10" & 12" Cobra® Push Button Locking Pliers	2DYW8
Westward		
Plier Sets		
3	6 in Diagonal Cutting Plier, 8 in Lineman's Plier, 8 in Needle Nose Plier	53JW89
5	10 in Flat Jaw Tongue & Groove Plier, 7 in Diagonal Cutting Plier, 8 in Lineman's Plier, 8 in Needle Nose Plier, 8 in Slip Joint Plier	1UKP5
6	6 in Diagonal Cutting Plier, 6 in Needle Nose Plier, 7 in End Cutting Plier, 8 in Lineman's Plier, 8 in Needle Nose Plier, 9 in Diagonal Cutting Plier	53JW90
8	4 ½ in End Cutting Plier, 4 ½ in Lineman's Plier, 4 in Bent Nose Plier, 4 in Needle Nose Plier, 5 in Diagonal Cutting Plier, 5 in Flat Nose Plier, 5 in Needle Nose Plier, 5 in Round Nose Plier	53JW91
Plier Wrench Sets		
4	10 in Flat Jaw Tongue & Groove Plier, 8 in Adjustable Wrench, 8 in Lineman's Plier, 8 in Needle Nose Plier	1UKP4

38UT92

3WCN4

10G947

38GU12

Specialty Pliers

Description	Overall Length	Jaw Length	Jaw Width	Cap.	Grip Style	Brand	Item No.
Cycle Plier	7 ⅞ in	2 ½ in	1 ¼ in	—	Standard Cushion	Knipex	38UT92
Fencing Plier	10 ⅜ in	¾ in	3 in	—	Standard Cushion	Channellock	3WCN4
Fencing Plier	10 ¼ in	1 in	3 ⅝ in	—	Standard Cushion	Westward	53JX02
Fencing Plier	10 ⅝ in	¾ in	3 ¼ in	—	Standard Cushion	Milwaukee	48ZT19
Fencing Plier	10 ¼ in	⅞ in	3 ¼ in	—	Standard Cushion	Irwin Vise-Grip	10J890
Fuse Puller Plier	5 in	1 ⅞ in	½ in	—	Standard Cushion	Jonard Tools	10G947
Halogen Bulb Plier	6 ¼ in	2 ¼ in	⅝ in	—	Knurled	Knipex	38UT44
Hemostat Plier	10 in	4 ⅛ in	⅛ in	—	Plain	Gearwrench	3WCL3
Hemostat Plier	10 in	4 ¼ in	⅛ in	—	Plain	Gearwrench	3WCK7
Hog Ring Pliers	6 ½ in	—	—	—	Standard Cushion	UniTherm	48ZY59
Hog Ring Pliers	7 ⅜ in	—	—	7 ga, 9 ga and 14 ga	Standard Cushion	Malco	5KNW8
Hog Ring Pliers	7 in	—	—	7 ga, 9 ga and 14 ga	Standard Cushion	Malco	5KNW7
Hog Ring Pliers	7 in	—	—	11 ga	Standard Cushion	Malco	5KNW6
Hog Ring Pliers	7 ¼ in	—	—	9 ga and 7 ga	Deluxe Cushion	Knipex	54JD50
Hog Ring Pliers	20 in	—	—	9 ga and 7 ga	Standard Cushion	Malco	10Z842
Locking Sprinkler Plier	12 in	2 ¾ in	2 ½ in	—	Plain	Safety Technology International	45YP75
Locknut Plier	7 ¾ in	1 ⅝ in	1 in	—	Standard Cushion	Klein Tools	2DHA6
Nail Pulling Pliers	11 in	—	—	—	Standard Cushion	Crescent	36M823
Plier Handle Grips, Maroon, 6 in Overall Length	6 in	—	—	—	—	Klein Tools	2DFW8
Revolving Punch Plier	8 ½ in	—	—	—	Standard Cushion	General	3ZH29
Revolving Punch Plier	8 in	—	—	—	Standard Cushion	Westward	2AJK6
Revolving Punch Plier	8 ¾ in	—	—	—	Standard Cushion	Knipex	10U132
Safety Wire Twister Plier	10 ½ in	—	—	—	—	Milbar	40AW28
Safety Wire Twister Plier	11 in	—	—	—	—	Milbar	40AW41
Welding Plier	9 in	2 ⅝ in	½ in	—	Standard Cushion	Channellock	38GU12

Scan. Order. Done.
Details on page A1.

5ETP4

53JX06

Curved Jaw

Straight Jaw

V-Jaw

Tongue and Groove Pliers

- Hardened steel
- Corrosion-resistant

Channellock—Undercut tongue-and-groove design assures strong no-slip jaw action. Laser heat-treated right-angle teeth for greater durability. GripLock jaw design accommodates many shapes.

Westward—Full polish and clear lacquering coating process provides corrosion resistance.

Knipex—Cobra pliers are self-gripping and feature high-leverage design. Feature push-button that locks adjustment position.

Milwaukee—Reaming head design for up to 2” pipe. Forged alloy steel and induction hardened jaws. Smooth transition grips and rust protection.

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Box-Joint Jaw				
Groove Joint Dipped Handle				
7 ¼ in	1 ½ in	Knipex	87 03 180	**38UT94**
10 in	2 in	Knipex	87 03 250	**38UT95**
12 in	2 ¾ in	Knipex	87 03 300	**38UT96**
Curved Jaw				
Groove Joint Dipped Handle				
7 in	1 ⅞ in	Westward	53JX07	**53JX07**
16 in	3 ⅜ in	Westward	53JX06	**53JX06**
Push Button Dipped Handle				
10 in	2 61/64 in	Knipex	81 11 250	**46MW59**
10 in	3 5/32 in	Knipex	81 01 250	**46MW60**
Nutbuster Jaw				
Push Button Dipped Handle				
10 in	1 ¼ in	Knipex	87 41 250	**38GU40**
Tongue and Groove Dipped Handle				
9 ½ in	1 ⅛ in	Channellock	410	**4CR35**
13 ½ in	2 in	Channellock	414	**4CR36**
Pliers Wrenches				
Push Button Dipped Handle				
5 in	⅞ in	Knipex	86 03 125	**35HT99**
6 in	1 in	Knipex	86 03 150	**5ETP3**
7 ¼ in	1 ⅜ in	Knipex	86 03 180 SBA	**2DYX9**
10 in	1 ¾ in	Knipex	86 03 250 SBA	**2DYX7**
12 in	2 ⅜ in	Knipex	86 03 300 SBA	**2DYX8**
16 in	3 ⅜ in	Knipex	86 03 400	**35HU02**
Push Button Ergonomic Handle				
6 in	1 in	Knipex	86 05 150 S02	**10U039**
6 in	1 in	Knipex	86 05 150	**10U038**
7 ¼ in	1 ⅜ in	Knipex	86 05 180	**10U040**
10 in	1 ¾ in	Knipex	86 05 250	**10U041**
Pump Pliers				
Groove Joint Dipped Handle				
7 ¼ in	1 ½ in	Knipex	88 01 180 SBA	**2DYZ3**
10 in	1 5/16 in	Knipex	89 01 250	**38UT98**
10 in	2 in	Knipex	88 01 250 SBA	**2DYZ1**
12 in	2 ¾ in	Knipex	88 01 300 SBA	**2DYZ2**
Groove Joint Ergonomic Handle				
7 ¼ in	1 ½ in	Knipex	88 02 180 SBA	**2DYZ6**
10 in	2 in	Knipex	88 02 250 SBA	**2DYZ4**
12 in	2 ¾ in	Knipex	88 02 300 SBA	**2DYZ5**
Push Button Dipped Handle				
6 in	1 ¼ in	Knipex	87 01 150	**10U042**
10 in	1 ¼ in	Knipex	87 51 250	**10U044**
Push Button Ergonomic Handle				
7 ¼ in	1 ½ in	Knipex	87 02 180 SBA	**2DYY8**
10 in	2 in	Knipex	87 28 250 SBA	**10U043**
10 in	2 in	Knipex	87 02 250 SBA	**2DYY6**
12 in	2 ¾ in	Knipex	87 02 300 SBA	**2DYY7**
Self-Adjusting Dipped Handle				
10 in	1 ¼ in	Knipex	85 01 250 US	**10U037**
Spanner Pliers				
Push Button Dipped Handle				
10 in	1 ¼ in	Knipex	87 41 250 SBA	**2DYY9**
Straight Jaw				
Groove Joint Comfort Grip Handle				
6 in	1 in	Milwaukee	48-22-6306	**36XE09**
10 in	2 in	Milwaukee	48-22-6310	**36XE06**
12 in	2 ¼ in	Milwaukee	48-22-6312	**36XE11**
16 in	4 ¼ in	Milwaukee	48-22-6316	**36XE02**
20 in	5 ½ in	Milwaukee	48-22-6320	**36XE05**
Groove Joint Dipped Handle				
6 ⅝ in	15/16 in	Westward	—	**1UKL7**
10 ¼ in	1 ¼ in	Westward	—	**1UKH8**
20 in	4 ½ in	Westward	53JX04	**53JX04**
Tongue and Groove Cushion Grip Handle				
9 ½ in	1 ½ in	Channellock	420CB	**3ZZT6**
10 ½ in	2 in	Channellock	430CB	**3ZZT8**
Tongue and Groove Dipped Handle				
4 ½ in	½ in	Channellock	424	**1YHL5**
6 ½ in	⅞ in	Channellock	426	**4CR39**
8 in	1 ½ in	Channellock	428	**10N541**
9 ½ in	1 ½ in	Channellock	420	**4CR37**
10 in	2 in	Channellock	430	**4CR40**
10 in	2 in	Channellock	415	**5LJ46**
12 in	2 ¼ in	Channellock	440	**4CR41**
16 ½ in	4 ¼ in	Channellock	460	**4CR43**
20 ¼ in	5 ½ in	Channellock	480	**5LJ49**
V-Jaw				
Groove Joint Dipped Handle				
5 in	1 in	Knipex	87 03 125	**38UT93**
7 ¼ in	1 ½ in	Knipex	88 01 180	**38GU41**
10 in	2 in	Knipex	88 01 250	**38GU42**
10 in	2 ⅛ in	Westward	53JX05	**53JX05**
12 in	2 ¾ in	Knipex	88 01 300	**38GU43**
12 in	2 ¾ in	Westward	53JX03	**53JX03**
16 in	3 ½ in	Knipex	88 01 400	**30WJ79**
Groove Joint Ergonomic Handle				
10 in	2 in	Knipex	88 08 250 US	**38GU50**
10 in	2 in	Knipex	88 02 250	**38GU33**
10 in	2 in	Knipex	88 02 250 T BKA	**54JD80**
12 in	2 ¾ in	Knipex	88 02 300 T BKA	**54JD81**
Push Button Dipped Handle				
5 in	⅞ in	Knipex	86 03 125 SBA	**35HU01**
5 in	1 in	Knipex	87 01 125	**5ETP4**
7 ¼ in	1 ½ in	Knipex	87 01 180	**38GU37**
7 ¼ in	1 ½ in	Knipex	87 01 180 SBA	**2DYY5**
10 in	2 in	Knipex	87 11 250	**38GU39**
10 in	2 in	Knipex	87 01 250	**38GU38**
10 in	2 in	Knipex	87 01 250 SBA	**2DYY1**
10 in	2 in	Knipex	87 21 250 SBA	**54JD89**
12 in	2 ¾ in	Knipex	87 01 300	**38GU32**
12 in	2 ¾ in	Knipex	87 01 300 SBA	**2DYY2**
12 in	2 ¾ in	Knipex	87 21 300 SBA	**54JD86**
16 in	3 ½ in	Knipex	87 01 400 SBA	**2DYY3**
22 in	4 ½ in	Knipex	87 01 560	**2DYY4**
Push Button Ergonomic Handle				
7 ¼ in	1 ½ in	Knipex	87 02 180	**38GU49**
7 ¼ in	1 ⅜ in	Knipex	86 05 180 T BKA	**54JD75**
7 ¼ in	1 ½ in	Knipex	87 02 180 T BKA	**54JD77**
10 in	1 ¾ in	Knipex	86 05 250 T BKA	**54JD76**
10 in	2 in	Knipex	87 02 250 T BKA	**54JD78**
12 in	2 ¾ in	Knipex	87 02 300 T BKA	**54JD79**
Quick Adjust Comfort Grip Handle				
8 in	1 ¾ in	Milwaukee	48-22-6208	**36XE03**
10 in	2 in	Milwaukee	48-22-6210	**36XE10**
12 in	2 ¾ in	Milwaukee	48-22-6212	**36XE08**
Tongue and Groove Dipped Handle				
6 ½ in	⅞ in	Channellock	412	**5EPV0**
6 ½ in	1 1/16 in	Channellock	GL6	**5LJ58**
9 ½ in	1 ½ in	Channellock	422	**4CR38**
9 ½ in	1 ¼ in	Channellock	GL10	**5LJ56**
10 in	2 in	Channellock	432	**3WDG4**
12 in	2 ¼ in	Channellock	442	**4CR42**
12 ½ in	2 ¼ in	Channellock	GL12	**5LJ57**

1UKJ3

3R264

Slip Joint Pliers

Overall Length	Max. Jaw Opening	Brand	Mfr. Model	Item No.
Curved Jaw				
Dipped Handle				
6 ⅛ in	1 in	Westward	—	**1UKJ3**
6 ½ in	½ in	Proto	J276GXL	**46C191**
8 ¼ in	1 ¼ in	Westward	—	**1UKJ5**
8 in	11/16 in	Proto	J278GXL	**46C193**
Ergonomic Handle				
6 ⅛ in	1 in	Westward	—	**1UKJ4**
Flat Jaw				
Dipped Handle				
5 ⅞ in	9/32 in	Proto	J275G	**3R260**
6 ⅝ in	1 in	Proto	J276G	**3R262**
8 ⅛ in	1 in	Proto	J278G	**3R265**
9 ⅝ in	1 7/16 in	Proto	J280G	**3R267**
Plain Handle				
5 ¾ in	9/32 in	Proto	J275	**3R259**
6 ½ in	⅜ in	Proto	J276	**3R261**
8 in	1 in	Proto	J278	**3R264**
Pliers				
Dipped Handle				
6 ½ in	5/16 in	Ampco	P-30	**4RPK2**
8 in	½ in	Ampco	P-31	**4CZ84**
Tethered Ready				
8 in	11/16 in	Proto	J278GXL-TT	**31CL49**
10 in	31/64 in	Proto	J280GXL-TT	**31CL51**

Long and Needle Nose Pliers

- Hardened steel
- Corrosion-resistant

Proto—1C040 has an extra-long handle for better access to confined areas. Bent-nose models reach around obstructions.

Klein Tools—Knurled jaws for sure wrapping and looping. Dipped handles.

Milwaukee—Feature reaming head design, bolt cutter-threads, wire stripper and needle nose functionality.

4A842

1UKJ9

3R213

Overall Length	Jaw Length	Jaw Width	Gripping Surface	Tip Width	Side Cutter	Brand	Item No.
Bent Long Nose Plier							
6½ in	2⅜ in	⅜ in	Serrated	3/16 in	Yes	Westward	**1UKK4**
10⅞ in	4⅛ in	⅜ in	Serrated	5/32 in	No	Westward	**1UKK7**
13¼ in	2⅞ in	—	Serrated	⅛ in	Yes	Westward	**53JW97**
Bent Needle Nose Plier							
4½ in	⅞ in	½ in	Smooth	⅛ in	No	Westward	**53JW99**
6½ in	1⅝ in	¾ in	Serrated	⅜ in	No	Proto	**3R209**
Duckbill Plier							
7¾ in	1⅝ in	½ in	Serrated	7/16 in	No	Proto	**3R213**
Long Nose Plier							
6 in	1¾ in	¾ in	Serrated	⅛ in	Yes	Irwin Vise-Grip	**4YU71**
6 in	2 in	⅜ in	Serrated	⅛ in	Yes	Westward	**1UKJ9**
7¼ in	2½ in	¾ in	Serrated	1/16 in	Yes	Klein Tools	**2DEW5**
8 in	2½ in	½ in	Serrated	7/64 in	Yes	Milwaukee	**36XE01**
8¼ in	2½ in	⅜ in	Serrated	3/16 in	Yes	Westward	**1UKK2**
8⅝ in	2⅜ in	1 in	Serrated	⅛ in	Yes	Klein Tools	**3LY17**
13½ in	3⅞ in	—	Serrated	⅛ in	Yes	Westward	**53JW96**
Needle Nose Plier							
4⅞ in	1⅛ in	½ in	Smooth	1/16 in	No	Klein Tools	**2DEY5**
4⅞ in	1⅛ in	½ in	Serrated	1/16 in	No	Klein Tools	**2DEY4**
4⅞ in	1⅛ in	—	Serrated	¼ in	Yes	Westward	**53JW98**
4⅞ in	1¼ in	½ in	Serrated	¼ in	No	Proto	**3R269**
5 in	1¼ in	½ in	Smooth	¼ in	No	Proto	**3R268**
5⅝ in	1¾ in	½ in	Smooth	1/16 in	No	Klein Tools	**2DHA7**
5⅝ in	1¾ in	½ in	Smooth	5/16 in	No	Klein Tools	**2DEY6**
5⅝ in	1¾ in	½ in	Smooth	9/32 in	No	Proto	**3R218**
5⅝ in	1¾ in	½ in	Serrated	9/32 in	Yes	Proto	**3R217**
5⅞ in	1¼ in	—	Smooth	⅛ in	No	Westward	**53JX01**
6 in	2 in	—	Serrated	⅛ in	Yes	Westward	**53JW95**
6⅛ in	2⅛ in	½ in	Serrated	9/32 in	No	Proto	**3R207**
6⅜ in	2 in	⅜ in	Serrated	3/16 in	Yes	Westward	**1UKK1**
6⅝ in	1⅞ in	¾ in	Serrated	1/16 in	Yes	Klein Tools	**2DEW4**
6⅝ in	1⅞ in	¾ in	Serrated	1/16 in	No	Klein Tools	**2DEX8**
6⅝ in	1⅞ in	¾ in	Serrated	3/32 in	Yes	Klein Tools	**4A842**
6⅝ in	1⅞ in	¾ in	Serrated	3/32 in	Yes	Klein Tools	**2DFB6**
6⅝ in	1⅞ in	¾ in	Serrated	3/32 in	No	Klein Tools	**10A988**
6⅝ in	1⅞ in	¾ in	Serrated	⅜ in	No	Proto	**3R203**
6⅝ in	1⅞ in	¾ in	Serrated	⅜ in	Yes	Proto	**3R211**
7 in	2⅛ in	¾ in	Serrated	11/32 in	No	Proto	**3R205**
7¼ in	2½ in	¾ in	Smooth	3/32 in	Yes	Klein Tools	**4A864**
7⅜ in	1½ in	¾ in	Serrated	3/32 in	Yes	Klein Tools	**2DFB7**
7½ in	2⅝ in	¾ in	Smooth	⅜ in	Yes	Proto	**4LT94**
7¾ in	1⅝ in	½ in	Serrated	7/16 in	No	Proto	**3R215**
8½ in	2⅜ in	1 in	Smooth	⅛ in	Yes	Klein Tools	**4A863**
8½ in	2⅜ in	1 in	Smooth	⅛ in	Yes	Klein Tools	**5C564**
8½ in	2⅜ in	1 in	Smooth	⅛ in	Yes	Klein Tools	**2DGZ3**
8⅝ in	2⅜ in	1 in	Serrated	½ in	Yes	Klein Tools	**2DFB8**
11⅛ in	3⅛ in	⅜ in	Serrated	5/32 in	No	Westward	**1UKK6**
11⅜ in	2⅝ in	¾ in	Smooth	13/32 in	No	Proto	**1C040**
11⅝ in	2⅞ in	¾ in	Smooth	13/32 in	No	Proto	**1C042**
Round Nose Plier							
4½ in	1⅛ in	½ in	Smooth	3/16 in	No	Proto	**10G671**
5 in	1 in	—	Serrated	⅛ in	No	Westward	**53JX08**

Linesman Pliers

- Hardened steel
- Corrosion-resistant

4A837

Additional Tool Functions	Overall Length	Jaw Length	Jaw Width	Brand	Item No.
Deluxe Cushion Grip Style					
New England Nose Shape					
—	8 in	1⅜ in	1 in	Westward	**53JW94**
Cable Cutter, Conduit Reaming Nose, Fish Tape Puller, Nail & Screw Cutter, Crimper, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**10A985**
Cable Cutter, Conduit Reaming Nose, Fish Tape Puller, Nail & Screw Cutter, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**2DFB5**
Cable Cutter, Conduit Reaming Nose, Nail & Screw Cutter, Crimper, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**2DHB5**
Cable Cutter, Conduit Reaming Nose, Nail & Screw Cutter, Wire Cutter	8⅞ in	1½ in	1⅛ in	Klein Tools	**10A977**
	9½ in	1⅝ in	1¼ in	Klein Tools	**3LY16**
Conduit Reaming Nose, Crimper, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**3LY14**
Conduit Reaming Nose, Fish Tape Puller, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**3LY15**
Conduit Reaming Nose, Wire Cutter	8⅞ in	1½ in	1¼ in	Klein Tools	**10A978**
	9½ in	1⅝ in	1¼ in	Klein Tools	**3LY13**
Universal Nose Shape					
Wire Cutter	8¾ in	1¾ in	1 in	Klein Tools	**10A982**
Ergonomic Grip Style					
New England Nose Shape					
Wire Cutter	4¼ in	1¼ in	½ in	Milwaukee	**48ZT17**
Knurled Grip Style					
Square Nose Shape					
Wire Cutter	9¼ in	1⅝ in	1¼ in	Klein Tools	**10A983**
Standard Cushion Grip Style					
New England Nose Shape					
—	4½ in	¾ in	¼ in	Westward	**53JX10**
	8½ in	1¼ in	1 in	Westward	**1UKJ7**
	9¾ in	1⅝ in	1¼ in	Westward	**1UKL8**
Bolt-Thread Holder, Cable Cutter, Conduit Reaming Nose, Nail & Screw Cutter, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**10A980**
Bolt-Thread Holder, Conduit Reaming Nose, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**10A979**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**2DHB3**
Cable Cutter, Conduit Reaming Nose, Fish Tape Puller, Nail & Screw Cutter, Wire Cutter	9½ in	1⅝ in	1¼ in	Klein Tools	**2DGY8**
Cable Cutter, Conduit Reaming Nose, Nail & Screw Cutter, Crimper, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**2DGY7**
Cable Cutter, Conduit Reaming Nose, Nail & Screw Cutter, Wire Cutter	7¾ in	1¼ in	1 in	Klein Tools	**10A975**
	8⅝ in	1½ in	1⅛ in	Klein Tools	**10A976**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**2DHB2**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**4A834**
Cable Cutter, Conduit Reaming Nose, Wire Cutter	8⅝ in	1½ in	1¼ in	Klein Tools	**4A836**
Conduit Reaming Nose, Crimper, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**4A835**
Conduit Reaming Nose, Fish Tape Puller, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**4A833**
Conduit Reaming Nose, Wire Cutter	7⅜ in	1¼ in	1⅛ in	Klein Tools	**2DGY9**
	8⅝ in	1½ in	1¼ in	Klein Tools	**2DEV9**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**4A837**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**5C565**
Fish Tape Puller, Crimper	9 in	1⅝ in	1¾ in	Milwaukee	**36XE13**
Square Nose Shape					
Cable Cutter, Nail & Screw Cutter, Wire Cutter	9⅜ in	1⅝ in	1¼ in	Klein Tools	**5LL71**
	9¼ in	1¼ in	1⅛ in	Klein Tools	**2DEV7**
Wire Cutter	8⅝ in	1½ in	1¼ in	Klein Tools	**2DGZ1**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**5C563**
	9⅛ in	1¼ in	1⅛ in	Klein Tools	**10A984**
	9⅜ in	1⅝ in	1¼ in	Klein Tools	**2DGZ5**
Universal Nose Shape					
Wire Cutter	8⅝ in	1¾ in	1 in	Klein Tools	**2DFF2**

4A841

53JW92

3R188

38TG67

Diagonal Pliers

- Hardened steel
- Corrosion-resistant

Description	Overall Length	Jaw Width	Jaw Length	ESD Safe	Brand	Item No.
Angled Head Diagonal Cutting Pliers						
Dipped						
Curved Lap Joint	7 ¾ in	1 ⅛ in	1 in	No	Channellock	5LJ48
Curved Lap Joint	9 ½ in	1 ⅛ in	1 in	No	Channellock	10N552
Dipped Pistol Grip						
2000 Series® High Leverage	8 in	1 ¼ in	⅞ in	No	Klein Tools	4A840
Angled Head	8 ⅛ in	1 ¼ in	¾ in	No	Proto	4LT91
Ultra High Leverage, 12° Angle	10 in	1 ⅛ in	1 in	No	Knipex	2DYX6
Ergonomic						
Journeyman™ High Leverage	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	4A841
Stanley® FatMax®	10 in	1 ¼ in	1 in	No	STANLEY	5ME38
Diagonal Cutting Pliers						
2-Component						
Pointed, Flat, Bevel	4 ½ in	½ in	½ in	No	Knipex	38UT90
Pointed, Flush	4 ½ in	½ in	½ in	Yes	Knipex	38UT89
Round, Bevel	4 ½ in	½ in	½ in	Yes	Knipex	38UT83
Round, Bevel	4 ½ in	½ in	½ in	Yes	Knipex	38UT84
Round, Small Bevel	5 in	½ in	⅜ in	Yes	Knipex	38UT91
Straight, Bevel	4 ¾ in	½ in	½ in	No	Knipex	38UT88
Straight, Bevel	4 ¾ in	½ in	½ in	Yes	Knipex	38UT87
Cushion Grip						
Heavy-Duty Pliers	8 ¼ in	½ in	⅝ in	No	SK	13P210
Oval, Flush	8 in	⅜ in	1 in	No	Milwaukee	36XE12
Oval, Side	7 ½ in	¾ in	⅞ in	No	Channellock	38RW36
Oval Head, Flush	5 in	⅝ in	½ in	Yes	Westward	53JW92
Pliers	6 in	⅜ in	¾ in	No	Milwaukee	36XE14
Pliers	7 in	½ in	1 in	No	Milwaukee	36XE04
Pointed Nose	5 ¼ in	⅛ in	⅞ in	No	SK	13P187
Spring Loaded, Electronics	5 in	⅝ in	⅞ in	No	Knipex	38TG93
Dipped						
Narrow Straight, Bevel	5 in	⅜ in	½ in	No	Knipex	38UT82
Oval, Side	6 in	¾ in	⅝ in	No	Channellock	38RW37
Pliers	7 ½ in	⅝ in	⅞ in	No	Channellock	38UV70
Pliers w/Box Joint	6 in	1 ¼ in	⅞ in	No	Channellock	5LJ47
Pliers w/Lap Joint	8 ¼ in	1 ¼ in	¾ in	No	Channellock	3LY73
Precision Tapered, Flush	5 ½ in	½ in	½ in	No	Westward	53JW93
Straight, Bevel	5 in	⅜ in	½ in	No	Knipex	38UT81
Straight, Bevel	5 in	⅜ in	½ in	No	Knipex	38UT79
Dipped Pistol Grip						
American Nose	6 in	⅜ in	⅞ in	No	Westward	1UKL1
Electronics	5 in	⅝ in	⅞ in	No	Knipex	38TG91
Heavy-Duty, Tapered Nose	7 ¾ in	1 in	1 in	No	Klein Tools	2DGZ6
Heavy-Duty Pliers	7 ⅜ in	⅞ in	2 ⅛ in	No	Proto	3R197
Heavy-Duty Pliers	8 ½ in	1 ¼ in	¾ in	No	Proto	4LT92
Heavy-Duty Pointed Nose	6 ¼ in	½ in	¾ in	No	SK	13P191
Heavy-Duty Pointed Nose	8 in	½ in	¾ in	No	SK	13P190
Heavy-Duty Tapered Nose	6 ⅛ in	¾ in	⅞ in	No	Klein Tools	2DHA3
Midget, Pointed Nose, Extra Narrow Jaws	4 ¼ in	⅜ in	½ in	No	Klein Tools	2DEX6
Narrow Nose	4 ½ in	⅝ in	⅝ in	No	Proto	3R188
Narrow Nose	4 ⅝ in	½ in	⅜ in	No	Proto	3R272
Narrow Nose	6 ⅛ in	¾ in	⅞ in	No	Proto	3R193
Narrow Nose	7 ⅜ in	⅞ in	1 in	No	Proto	3R195
Oval, Bevel	4 ¼ in	1 ¼ in	1 in	No	Knipex	38TG88
Oval, Bevel	5 in	⅝ in	⅞ in	No	Knipex	38TG94
Oval, Bevel	6 ¼ in	1 ¼ in	1 in	No	Knipex	38TG89
Oval, Flush	6 ⅛ in	¾ in	¾ in	No	Greenlee	5KPN5
Plastic Cutting w/Coil Spring	7 ⅜ in	⅞ in	1 in	No	Proto	3R199
Pointed Nose	7 ⅜ in	½ in	1 in	No	SK	13P189
Spring Loaded, Flush Cut	5 in	⅛ in	⅞ in	No	Knipex	38TG90
Tapered, Flush	7 ¾ in	1 in	1 in	No	Klein Tools	2DEW8
Tapered Nose	5 ⅛ in	⅝ in	¾ in	No	Klein Tools	2DEX2
Tapered Nose, Semi Flush	6 ⅛ in	¾ in	⅞ in	No	Klein Tools	2DGZ4
Tapered Nose w/Side Cutter	6 ⅛ in	¾ in	⅞ in	No	Klein Tools	10A991
Ultra Slim	5 in	¼ in	½ in	No	Klein Tools	2DEX7

Description	Overall Length	Jaw Width	Jaw Length	ESD Safe	Brand	Item No.
Double Dipped						
Round, Flush	5 in	⅝ in	⅜ in	No	STANLEY	2MU27
Round, Flush	6 in	¾ in	1 in	No	STANLEY	2MU28
Round, Flush	7 in	⅞ in	⅞ in	No	STANLEY	2MU29
Ergonomic						
American Nose	6 in	⅜ in	⅞ in	No	Westward	1UKL2
Angled, Flush	8 in	1 ⅛ in	⅞ in	No	Irwin Vise-Grip	10J886
Angled Head, Bevel	8 in	1 ⅛ in	⅞ in	No	Knipex	54JD73
Angled Head, Bevel	10 in	1 ¼ in	2 in	No	Knipex	54JD74
Cushion Grip	7 in	1 ⅛ in	⅞ in	Yes	Irwin Vise-Grip	4YU76
Flush	4 ½ in	½ in	½ in	Yes	Knipex	30WJ75
Midget, Pointed Nose	4 ¼ in	½ in	½ in	No	Klein Tools	2DEW7
Oval, Bevel	6 in	⅞ in	⅞ in	No	Irwin Vise-Grip	4YU75
Oval, Bevel	8 in	1 ⅛ in	⅞ in	No	Knipex	10U002
Oval, Flush	7 in	1 ⅛ in	⅞ in	No	STANLEY	10D207
Oval, Flush	7 ½ in	⅞ in	1 in	No	STANLEY	5ME39
Oval Head, Bevel	8 in	1 ⅛ in	⅞ in	No	Knipex	54JD71
Oval Head, Bevel	10 in	1 ¼ in	2 in	No	Knipex	54JD72
Pliers	8 in	1 ⅛ in	⅞ in	No	Irwin Vise-Grip	4YU77
Pointed Nose, Narrow Jaws	5 ⅛ in	½ in	¾ in	No	Klein Tools	2DEX1
Solid Joint	6 in	⅞ in	1 in	No	STANLEY	10D206
Straight, Flush	5 in	½ in	⅜ in	No	Knipex	5AHA7
Tapered Head	4 in	½ in	½ in	No	Xcelite	4CP48
Tapered Nose	6 ⅛ in	¾ in	⅞ in	No	Klein Tools	2DEW2
Tapered Pliers w/Skinning Hole	6 ⅛ in	1 ⅛ in	⅞ in	No	Klein Tools	2DEW9
Diagonal Cutting Pliers, Lead Catcher						
Dipped						
Straight, Bevel	5 in	⅜ in	½ in	No	Knipex	38UT80
High Leverage Diagonal Cutting Pliers						
Dipped						
Lap Joint	7 in	1 ¼ in	¾ in	No	Channellock	5LJ43
Dipped Pistol Grip						
2000 Series® Pliers	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	4A838
American Nose	8 in	1 ⅛ in	1 in	No	Westward	1UKN1
Long Reach	11 ⅛ in	1 in	1 in	No	Proto	3ML13
Pliers	7 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	10A990
Pliers	8 ⅛ in	1 ¼ in	⅞ in	Yes	Klein Tools	4A839
Pliers	9 ¼ in	1 ¼ in	⅞ in	No	Klein Tools	2VCZ7
Ultra High Leverage	8 in	1 ⅛ in	1 in	No	Knipex	10T994
Ultra High Leverage	10 in	1 ⅛ in	1 in	No	Knipex	2DYX4
Ergonomic						
American Nose	8 ⅛ in	1 ⅛ in	1 in	No	Westward	1UKN2
High Leverage	7 in	1 in	¾ in	No	Greenlee	5KPH4
Journeyman™ 2000 Series®	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	2DFB4
Journeyman™ 2000 Series® Angled Head	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	3LY21
Journeyman™ Angled Head	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	3LY20
Journeyman™ Pliers	8 ⅛ in	1 ¼ in	⅞ in	No	Klein Tools	3LY19
Ultra High Leverage Cushion Grip	8 in	1 in	⅞ in	No	Knipex	2DYX5
Ultra High Leverage Cushion Grip	10 in	1 ¼ in	1 ¼ in	No	Knipex	38TG66
Ultra High Leverage Cushion Grip	10 in	1 ¼ in	1 ¼ in	No	Knipex	38TG67
Precision Diagonal Cutting Pliers						
Dipped Pistol Grip						
Oval, Flush	4 ½ in	½ in	⅜ in	No	Proto	10G688
Tapered, Semi-Flush	4 ¼ in	½ in	½ in	No	Klein Tools	2DEX4
Tapered, Semi-Flush	4 ¼ in	½ in	½ in	No	Klein Tools	2DEX5

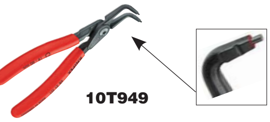
10D199

1UKN3

End Cutting Nippers

Overall Length	Jaw Length	Jaw Width	Cutting Edge	Brand	Item No.
4 in	¼ in	½ in	Yes	Proto	10G686
6 ½ in	½ in	1 ¼ in	Yes	STANLEY	10D199
7 in	2 ¾ mm	26 ½ mm	—	Westward	1UKN3
8 ½ in	½ in	1 ¼ in	End	Klein Tools	2DGZ9
8 ¼ in	¼ in	1 ¾ in	Semi-Flush	Proto	3R258
10 in	¾ in	2 ¼ in	Knife/Anvil	Channellock	5LJ39

Retaining Ring and Snap Ring Pliers


10T949

5C599

4YP50

Tip Dia.	▶CHOOSE: Tip Angle	For Shaft Dia.	For Bore Dia.	Overall Length	Brand	Item No.
Retaining Ring Plier						
Internal						
0.025 in	0 °	—	¼ in to ⅝ in	5 ⅜ in	Proto	**3R330**
0.035 in	0 °	—	5/16 in to ½ in	5 ½ in	Knipex	**H3967**
0.035 in	0 °	—	8mm to 13mm	5 ½ in	Knipex	**38UT62**
0.036 in	45 °	—	5/16 in to ½ in	5 ½ in	Knipex	**H3967**
0.038 in	0 °	—	⅜ in to 9/16 in	5 ⅜ in	Proto	**5C630**
0.038 in	45 °	—	⅜ in to 1 in	5 ⅜ in	Proto	**3R332**
0.046 in	0 °, 45 °, 90 °	—	½ in to 1 in	5 ½ in, 5 ⅛ in	Knipex	**H3968**
0.046 in	90 °	—	5/16 in to ½ in	5 ⅛ in	Knipex	**H3967**
0.046 in	90 °	—	½ in to 1 in	5 ⅛ in	Knipex	**10T949** *
0.047 in	90 °	—	12mm to 25mm	5 ⅛ in	Knipex	**38UT68**
0.051 in	0 °	—	12mm to 25mm	5 ½ in	Knipex	**38UT63**
0.071 in	0 °	—	19mm to 60mm	7 ⅛ in	Knipex	**38UT64**
0.071 in	90 °	—	19mm to 60mm	6 ¾ in	Knipex	**38UT69**
0.078 in	0 °, 45 °, 90 °	—	¾ in to 2⅜ in	7 ⅛ in, 6 ¾ in	Knipex	**H3969**
0.078 in	90 °	—	¾ in to 2⅜ in	6 ½ in	Knipex	**10T950** *
0.087 in	30 °	0 in to 15/36 in	—	7 ⅞ in	Knipex	**38UT71**
0.09 in	0 °	—	1 13/16 in to 3 in	9 in	Proto	**5C600**
0.091 in	0 °	—	40mm to 100mm	8 ⅞ in	Knipex	**38UT65**
0.091 in	90 °	—	40mm to 100mm	8 ½ in	Knipex	**38UT70**
0.093 in	0 °, 45 °, 90 °	—	1 9/16 in to 4 in	8 ⅞ in, 8 ½ in	Knipex	**H3970**
0.093 in	90 °	—	1 9/16 in to 4 in	8 ¼ in	Knipex	**10T951** *
0.12 in	0 °	—	3 1/16 in to 6 in	16 ½ in	Proto	**3R312**
0.125 in	90 °	—	3⅜ in to 5½ in	5 ½ in	Knipex	**10T952** *
0.126 in	0 °	—	85mm to 140mm	12 ⅝ in	Knipex	**38UT66**
0.177 in	90 °	—	252mm to 400mm	23 ⅝ in	Knipex	**38UT67**
External						
0.023 in	0 °	¼ in to 5/16 in	¼ in to 5/16 in	5 ¼ in	Proto	**3R329**
0.038 in	0 °	¼ in to 21/32 in	—	6 ⅛ in	Proto	**5C599**
0.038 in	90 °	¼ in to 1 in	—	6 ⅛ in	Proto	**3R331**
0.046 in	0 °	⅛ in to ⅜ in	—	5 ½ in	Knipex	**10T953** *
0.046 in	0 °	⅜ in to 1 in	—	5 ½ in	Knipex	**10T954** *
0.046 in	90 °	⅛ in to ¾ in	—	5 ⅛ in	Knipex	**10T958** *
0.046 in	90 °	⅜ in to 1 in	—	5 ⅛ in	Knipex	**10T959** *
0.047 in	0 °	⅜ in to 1 in	—	5 ½ in	Knipex	**38GU31**
0.07 in	0 °	7/16 in to 2 in	—	6 ⅞ in	Proto	**5C628**
0.071 in	90 °	13mm to 60mm	—	6 ¾ in	Knipex	**38UT73**
0.078 in	0 °, 45 °, 90 °	¾ in to 2⅜ in	—	7 ⅛ in, 6 ¾ in	Knipex	**H3964**
0.078 in	0 °	¾ in to 2⅜ in	—	7 ⅛ in	Knipex	**10T955** *
0.078 in	90 °	¾ in to 2⅜ in	—	6 ½ in	Knipex	**10T960** *
0.091 in	90 °	40mm to 100mm	—	7 ⅞ in	Knipex	**38UT74**
0.093 in	0 °, 45 °, 90 °	1 9/16 in to 4 in	—	8 ¼ in, 7 ⅞ in	Knipex	**H3965**
0.093 in	0 °	1 9/16 in to 4 in	—	8 ⅞ in	Knipex	**10T956** *
0.093 in	90 °	1 9/16 in to 4 in	—	8 ¼ in	Knipex	**10T961** *
0.115 in	0 °	1½ in to 3½ in	—	9 ⅛ in	Proto	**5C629**
0.12 in	0 °	3½ in to 6½ in	—	16 ½ in	Proto	**3R313**
0.125 in	0 °	3⅜ in to 5½ in	—	12 ⅝ in	Knipex	**10T957** *
0.125 in	90 °	3⅜ in to 5½ in	—	5 ½ in	Knipex	**10T962** *
0.177 in	90 °	252mm to 400mm	—	22 ⅞ in	Knipex	**38UT72**
Convertible						
0.023 in, 0.036 in, 0.047 in	0 °, 90 °	⅛ in to 1 in	¼ in to 1 in	6 ¼ in	Channellock	**38GU16**
0.036 in, 0.047 in, 0.07 in, 0.47 in	0 °, 90 °	¼ in to 2 in	⅜ in to 2 in	8 in	Channellock	**3WDW5**
0.038 in	0 °	¼ in to 43/64 in	⅜ in to 9/16 in	5 ⅞ in	Proto	**3R333**
0.038 in	0 °	5/16 in to 45/64 in	5/16 in to 11/16 in	6 in	Westward	**33HD62**
0.038 in	18 °	¼ in to 43/64 in	⅜ in to 9/16 in	6 in	Proto	**4JV92**
0.038 in	45 °	½ in to 25/32 in	⅜ in to 9/16 in	5 ¾ in	Proto	**3R317**
0.038 in	45 °	5/16 in to 45/64 in	5/16 in to 11/16 in	6 in	Westward	**33HD72**
0.038 in	90 °	—	⅜ in to 1 in	6 in	Proto	**4JV83**
0.038 in	90 °	⅛ in to 5/32 in	¾ in to 1 in	5 ¾ in	Proto	**3R318**
0.038 in	90 °	5/16 in to 45/64 in	5/16 in to 11/16 in	6 in	Westward	**33HD69**
0.047 in	0 °	11/16 in to ⅞ in	⅝ in to 1 1/64 in	5 ⅞ in	Proto	**3R319**
0.047 in	0 °	15/32 in to 63/64 in	½ in to 1 in	6 in	Westward	**33HD66**
0.047 in	45 °	13/16 in to 1 in	1 in to 1 1/64 in	5 ¾ in	Proto	**3R320**
0.047 in	45 °	15/32 in to 63/64 in	½ in to 1 in	6 in	Westward	**33HD67**
0.047 in	90 °	3/16 in to ¼ in	1 1/16 in to 1⅜ in	5 ¾ in	Proto	**3R321**
0.047 in	90 °	15/32 in to 63/64 in	5/16 in to 11/16 in	6 in	Westward	**33HD70**
0.055 in	0 °	½ in to 1½ in	½ in to 1½ in	6 ¼ in	Westward	**4YP50**
0.07 in	0 °	15/16 in to 1 7/16 in	1 1/16 in to 1¾ in	7 ½ in	Proto	**3R328**
0.07 in	0 °	45/64 in to 1 57/64 in	11/16 in to 1⅞ in	8 in	Westward	**33HD64**
0.07 in	18 °	15/16 in to 1 7/16 in	1 1/16 in to 1¾ in	7 ¼ in	Proto	**4JV85**
0.07 in	45 °	1 in to 2 in	1 1/16 in to 1¾ in	7 ⅜ in	Proto	**3R322**
0.07 in	45 °	45/64 in to 1 57/64 in	11/16 in to 1⅞ in	8 in	Westward	**33HD68**
0.07 in	90 °	7/16 in to ¾ in	1 7/16 in to 2 in	7 ⅛ in	Proto	**3R323**
0.07 in	90 °	45/64 in to 1 57/64 in	11/16 in to 1⅞ in	8 in	Westward	**33HD65**
0.07 in	90 °	7/16 in to 2 in	1 7/16 in to 2 in	7 ¼ in	Proto	**4JV84**
0.09 in	0 °	1½ in to 3½ in	1 13/16 in to 3 in	9 ¼ in	Proto	**3R324**
0.09 in	0 °	1 7/32 in to 3 15/64 in	1¼ in to 3¼ in	9 in	Westward	**33HD63**
0.09 in	45 °	1½ in to 1¾ in	1 13/16 in to 3 in	9 in	Proto	**3R325**
0.09 in	45 °	1 7/32 in to 3 15/64 in	1¼ in to 3¼ in	9 in	Westward	**33HD71**
0.09 in	90 °	1 13/16 in to 3 in	1 13/16 in to 3 in	8 ⅝ in	Proto	**10G635**
0.09 in	90 °	1 7/32 in to 3 15/64 in	1¼ in to 3¼ in	9 in	Westward	**33HD73**
Compact						
0.046 in	0 °	—	5/16 in to ½ in	5 ½ in	Knipex	**10N913** *
0.046 in	0 °	—	½ in to 1 in	5 ½ in	Knipex	**10N914** *
0.046 in	0 °	1/64 in to 5/32 in	—	5 ½ in	Knipex	**10N908**
0.046 in	0 °	5/32 in to 9/32 in	—	5 ½ in	Knipex	**10N909**
0.046 in	0 °	⅛ in to ¾ in	—	5 ½ in	Knipex	**10T963** *
0.046 in	90 °	⅛ in to ¾ in	—	5 ⅛ in	Knipex	**10T964** *
0.046 in	90 °	—	5/16 in to ½ in	5 ⅛ in	Knipex	**10T948** *
0.05 in	0 °	9/16 in to 11/16 in	—	5 ½ in	Knipex	**10N911**
0.07 in	0 °	¾ in to 1 3/16 in	—	7 ⅛ in	Knipex	**10N912**
0.078 in	0 °	—	¾ in to 2⅜ in	7 ⅛ in	Knipex	**10N915** *
0.078 in	0 °	3/16 in to ½ in	—	5 ½ in	Knipex	**10N910**
0.093 in	0 °	—	1 9/16 in to 4 in	8 ⅞ in	Knipex	**10N916** *
0.125 in	0 °	—	3⅜ in to 5½ in	12 ⅝ in	Knipex	**10T947** *
0.14 in	0 °	—	4 13/16 in to 11 13/16 in	22 ½ in	Knipex	**10N904**
0.14 in	0 °	4 13/16 in to 11 13/16 in	—	22 in	Knipex	**10N906**
0.187 in	0 °	9 15/16 in to 15¾ in	—	22 ½ in	Knipex	**10N907**
0.187 in	0 °	—	9 15/16 in to 15¾ in	22 ⅞ in	Knipex	**10N905**
Lock Ring Plier						
Internal						
—	0 °	⅛ in to ¾ in	—	9 in	Proto	**3R221**
—	0 °	⅛ in to 1¼ in	—	10 ⅝ in	Proto	**3R223**

** Inserted, nondetachable tips made from high-density spring steel for added strength and 30% more stability.*

No. of Pieces	Tip Dia.	Tip Angle	For Shaft Dia.	For Bore Dia.	Overall Length	Includes	Brand	Item No.
Retaining Ring Plier Sets								
Internal/External								
2	0.047 in	0 °	25/64 in to 63/64 in	1¼ in	5 ½ in, 5 ¾ in	—	Knipex	**38UU05**
2	0.078 in	0 °	¾ in to 2 23/64 in	1¼ in	8 in	—	Knipex	**38UU06**
4	0.049 in, 0.07 in	0 °	½ in to 1 in, ¾ in to 2⅜ in	½ in to 1 in, ¾ in to 2⅜ in	5 ¾ in, 8 in	Nylon Pouch with Locking Clip	Knipex	**3JXP2**
4	0.049 in	0 °, 90 °	⅜ in to 1 in	½ in to 1 in	5 in, 5 ¼ in, 5 ¾ in	Nylon Pouch with Locking Clip	Knipex	**3JXP3**
4	0.035 in, 0.07 in	0 °	⅛ in to 25/64 in, ¾ in to 2⅜ in	¾ in to 2⅜ in, ⅜ in to ½ in	5 ¾ in, 8 in	Nylon Pouch with Locking Clip	Knipex	**3JXP4**
4	0.035 in, 0.07 in	90 °	⅛ in to 25/64 in, ¾ in to 2⅜ in	¾ in to 2⅜ in, 5/16 in to ½ in	5 in, 5 ¼ in, 6 ¾ in	Nylon Pouch with Locking Clip	Knipex	**3JXP5**
4	0.071 in	0 °, 90 °	¾ in to 2⅜ in	¾ in to 2⅜ in	6 ¾ in, 7 ¼ in	(4) Circlip Pliers	Knipex	**10N809**
4	0.049 in, 0.07 in	0 °	¾ in to 2⅜ in	½ in to 2⅜ in	5 ½ in, 7 ¼ in	(4) Circlip Pliers	Knipex	**10N810**
4	0.038 in, 0.047 in, 0.07 in, 0.09 in	0 °	½ in to 1 in	½ in to 2 23/64 in	5 ½ in, 7 ¼ in	(6) Circlip Pliers, Foam Tray	Knipex	**38UT22**
4	0.049 in, 0.07 in	90 °	25/64 in to 63/64 in, ¾ in to 2 23/64 in	1¼ in	5 ⅛ in, 7 in	Tool Roll	Knipex	**38UU07**
6	0.038 in, 0.047 in, 0.07 in	0 °, 90 °	¼ in to 2 in	⅜ in to 2 in	9 ½ in	Plastic Case	Imperial	**40AW29**
6	0.038 in, 0.047 in, 0.07 in, 0.09 in	0 °, 90 °	¾ in to 2 23/64 in	15/32 in to 2 23/64 in	5 ½ in, 6 ½ in, 7 ¼ in	(6) Circlip Pliers, Foam Tray	Knipex	**38UR98**
8	0.023 in, 0.036 in, 0.047 in	0 °, 90 °	½ in to 1 in	½ in to 2 23/64 in	5 ⅛ in, 5 ½ in, 6 ½ in, 7 ¼ in	(8) Circlip Pliers	Knipex	**38UT23**
18	0.038 in, 0.047 in, 0.07 in	0 °	¼ in to 2 in	⅜ in to 2 in	6 ¼ in	Plastic Case	Proto	**5C601**
Internal								
4	0.049 in	45 °	—	¼ in to 2¼ in	5 ¾ in, 8 in, 9 in	Plastic Pouch	Knipex	**10U091**
External								
4	0.07 in	45 °	1 37/64 to 3 15/16 in, ⅛ in to 25/64 in, 25/64 in to 63/64 in, ¾ in to 2 23/64 in	—	5 ¼ in, 7 ¼ in, 8 ¼ in	Plastic Pouch	Knipex	**10U092**
18	0.108 in, 0.12 in	90 °	1½ in to 3¾ in	2 7/16 in to 4 in	9 ½ in	Carrying Case	Proto	**3R309**
Convertible								
2	0.038 in, 0.047 in, 0.07 in	0 °, 15 °, 45 °, 90 °	¼ in to 2 in	⅜ in to 2 in	6 ¼ in	(8) Pairs of Color Coded Interchangeable Tips, External Pliers, Internal Pliers, Plastic Case	Imperial	**40AW31**
4	0.038 in, 0.07 in	18 °, 90 °	¼ in to 2 in	⅜ in to 2 in	6 in, 7 ¼ in	(2) Retaining Ring Convertible Pliers 6", (2) Retaining Ring Convertible Pliers 7 ¼"	Proto	**4JV80**
6	0.038 in, 0.047 in, 0.07 in	0 °, 90 °	¼ in to 2 in	⅜ in to 3 in	5 ¾ in, 5 ⅞ in, 7 ⅛ in, 7 ½ in	Carrying Case	Proto	**4JV79**
12	0.038 in, 0.047 in, 0.07 in, 0.09 in	0 °, 45 °, 90 °	¼ in to 3 11/32 in	⅜ in to 3 in	5 ¾ in, 5 ⅞ in, 7 ⅛ in, 7 ⅜ in, 7 ½ in, 8 ⅝ in, 9 in, 9 ¼ in	Carrying Case	Proto	**5C602**
Snap Ring Plier Sets								
Internal/External								
12	0.038 in, 0.047 in, 0.07 in, 0.09 in	0 °, 45 °, 90 °	5/16 in to 3¼ in	5/16 in to 3¼ in	6 in, 9 in	Carrying Case	Westward	**33HD61**
12	0.037 in, 0.039 in, 0.047 in, 0.074 in	0 °, 45 °, 90 °	⅜ in to 1¾ in	⅜ in to 1¾ in	6 ½ in	Carrying Case	Westward	**33HD60**
Convertible								
4	0.045 in, 0.06 in	45 °, 90 °	⅜ in to 2 in	⅜ in to 2 in	6 in	—	Westward	**4YP48**

48UV50

3R181

Safety Wire Twister Pliers

PROTO® WESTWARD®

Cut through tough stainless steel safety wire. Diagonal nose allows access in tight work areas. Automatic spring return pliers are ideal for aviation and other applications. Reversible pliers have right and left twist capability and meet SAE Aerospace Standard AS 567 twister requirements.

Description	Wire Size	Overall Length	Brand	Item No.
Individual Pliers				
1-Way Automatic Spring Return	0.020 in to 0.041 in	8 ⅜ in	Proto	**3R177**
1-Way Automatic Spring Return	0.020 in to 0.060 in	10 ⅜ in	Proto	**3R178**
Automatic Spring Return	0.020 in to 0.060 in	10 ⅜ in	Proto	**3R179**
Reversible	0.020 in to 0.041 in	8 ¾ in	Proto	**4JV75** *
Reversible	0.020 in to 0.060 in	11 in	Proto	**4JV76** *
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	10 ½ in	Westward	**48UV52**
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	10 ⅜ in	Proto	**3R182**
Safety Wire Twister Plier, Automatic	0.020 in to 0.060 in	11 ¼ in	Westward	**48UV50**
Safety Wire Twister Plier, Automatic	0.020 in to 0.041 in	12 ¼ in	Proto	**10G681** *
Safety Wire Twister Plier, Manual	0.020 in to 0.060 in	10 ½ in	Westward	**48UV51**
3-Pc. Plier Set				
Includes 6 and 9" Wire Twister Pliers and Deep Reach Wire Twister w/Case			Proto	**3R181**

***Spring Return**

Thin Long Nose Serrated Jaw Pliers

Diagonal Cutter, Flush

Diagonal Cutter, Semi-Flush

ESD Safe Pliers and Cutters

Xcelite® KNIPEX® Erem® WESTWARD® PROTO®

For a wide range of electronic assembly requirements. Copper alloy rivet eliminates friction, while copper alloy joint maintains cutting edge and tip alignment. Plastisol, nonslip cushion handles, standard.

Mini Pliers Sets—Dual leaf spring design allows jaws to be maintained in open position. Fitted with slip-resistant electrostatic dissipative (ESD) cushioned grips. 2TJ50 includes 4¼" diagonal cutter with semiflush cut tapered head; 4¼" diagonal cutter with flush cut oval head; 4½" curved long nose with serrated jaw; and 4¾" long nose with cutter. 2TJ51 includes 4¾" diagonal cutter with semiflush cut tapered head; 4¼" diagonal cutter with flush cut oval head; 5¾" slim needle nose with nonserrated jaw; 4¾" slim needle nose with serrated jaw; 4½" transverse end cutter with flush cut; and 4½" angled cutter with flush cut.

Description	Overall Length	Brand	Mfr. Model	Item No.
Hard Wire Cutter	5 ½ in	Xcelite	134CG	**4CP16**
Electronic Pliers, Straight, Stainless Steel	5 in	Knipex	78 03 125 ESD	**5AHA8**
Electronic Pliers, Straight w/Lead Catcher, Stainless Steel	4 ⅞ in	Knipex	78 13 125 ESD	**5AHC0**
Short Chain Nose Pliers	5 in	Xcelite	LN225N	**4CP33**
Miniature Short Chain Nose Pliers	4 in	Xcelite	L4VN	**6X088**
Miniature Long Nose Pliers	4 in	Xcelite	L4GN	**4CP30**
Thin Long Nose Serrated Jaw Pliers	5 ½ in	Xcelite	LN55VN	**4CP39**
Long Nose Side Cutter	5 ½ in	Xcelite	SN55VN	**4CP64**
Diagonal Medium Head Cutter, Flush	4 ½ in	Erem	522N	**31AD33**
Long Nose Plier	5 ⅞ in	Westward	—	**30PA88**
Diagonal Cutting Plier, Flush	5 ¼ in	Westward	—	**30PA90**
Diagonal Cutting Plier, Semi-Flush	4 ¼ in	Westward	—	**30PA91**
Bent Long Nose Plier	4 ⅜ in	Westward	—	**30PA98**
Flat Nose Plier	4 ⅝ in	Westward	—	**30PC01**
Plier Sets				
4-pc. Mini Pliers Set	—	Proto	J2804SMP	**2TJ50**
6-pc. Mini Pliers Set	—	Proto	J2806SMP	**2TJ51**

4CR25

3G971

31AD31

Erem® GENERAL® slice™

Tweezers

Designed for toolmakers, repairmen, and electronic assemblers.

EREM

Tweezers are antimagnetic, acid-resistant, and temperature-resistant to 300°C.

ESD SAFE TWEEZERS

Meet the requirements for tools used in electrostatic-sensitive areas. Ergonomically designed soft foam handles. Stainless steel.

SLICE

Professional-grade tweezers are hand filed with aligned tips. 31DA15, 31DA16, 31DA18, and 31DA19 are autoclave friendly. 31DA15, 31DA17, and 31DA19 are soft-touch rubberized.

Description	Point Type	L	Tip Size	Application	Material	Mechanism	Brand	Mfr. Model	Item No.
ESD Safe Precision Tweezers									
ESD-Safe, Anti-Magnetic, Anti-Acid	Curved, Relieved	4 ¾ in	.011 in x .016 in	For Working in Confined Spaces	Stainless Steel	Manual	Erem	E7SA	**5EPT8**
	Flat, Round, Straight	4 ¾ in	.063 in x .015 in	For Gripping Fine Wire	Stainless Steel	Manual	Erem	E2ASA	**5EPT5**
	Micro Pointed, Straight	4 ¾ in	.011 in x .011 in		Stainless Steel	Manual	Erem	E5SA	**5EPT7**
	Pointed, Straight, Ultra-Fine	4 ¾ in	.011 in x .015 in	For Assembly of Circuit Boards	Stainless Steel	Manual	Erem	E3CSA	**5EPT6**
	Robust, Straight	4 ¾ in	.019 in x .027 in	—	Stainless Steel	Manual	Erem	EOOSA	**5EPT9**
Precision Tweezers									
Anti-Acid/ Anti-Mag	Curved, Releived	4 ½ in	.011 in x .016 in	For Very Fine Precision Work on Electronic Assemblies	Stainless Steel	Manual	Erem	7SASL	**4CR23**
	Fine, Robust, Straight	5 in	.031 in x .031 in		Stainless Steel	Manual	Erem	AASA	**4CR25**
	Flat & Round, Straight	4 ½ in	.063 in x .015 in		Stainless Steel	Manual	Erem	2ASASL	**4CP98**
	Medium, Straight	4 ½ in	.019 in x .019 in		Stainless Steel	Manual	Erem	2SASL	**4CR01**
	Micro Point	4 ½ in	.011 in x .011 in		Stainless Steel	Manual	Erem	5SASL	**4CR16**
	Straight, Ultra Fine	4 ¼ in	.011 in x .015 in		Stainless Steel	Manual	Erem	3CSASL	**4CR03**
Anti-Acid/ Anti-Mag, Swiss Made	Curved, Releived	4 ½ in	.011 in x .016 in		Stainless Steel	Manual	Erem	7SA	**4CR22**
	Flat & Round, Straight	4 ½ in	.063 in x .015 in		Stainless Steel	Manual	Erem	2ASA	**4CP97**
	Micro Point, Straight	4 ½ in	.011 in x .011 in		Stainless Steel	Manual	Erem	5SA	**4CR15**
	Straight, Ultra Fine	4 ¼ in	.011 in x .015 in		Stainless Steel	Manual	Erem	3CSA	**4CR02**
Curved, Double Hinged	Smooth/Dull	6 ½ in	—	—	Stainless steel	—	General	3G971	**3G971** *
Cutting	Oblique	4 ½ in	0.374 in	Cutting Fine, Soft Wire and Small Components	Carbon Steel	Manual	Erem	15AGW	**31AD31**
Serrated/Blunt	Serrated/Blunt	6 in	—	—	Stainless steel	—	General	3G959	**3G959** *
Serrated Bent Tip, LED	Serrated Bent Tip	4 13⁄64 in	—	Retrieval, Includes (3) LR41 Batteries	Heat Treated Steel, Non-Slip Cushion Grip	Spring	General	70408	**8P401**
Smooth/Sharp	Smooth/Sharp	4 ½ in	—	For Very Fine Precision Work on Electronic Assemblies, Toolmakers, Mechanics, and Repairmen	Nickel Plated Steel	—	General	401XX	**3WCR1**
Smooth Point Tip, LED	Smooth Point Tip	6 ¼ in	—	Retrieval, Includes (3) LR41 Batteries	Heat Treated Steel, Non-Slip Cushion Grip	Spring	General	70401	**9DKV9**
Strong Bevel	Strong Bevel	5 in	—	—	Stainless steel	—	General	3G957	**3G957** *
Wide-Grip	Combination	3 ½ in	½ in	Precision Tweezing Extra Wide Grip	Stainless Steel, Non-Slip	Spring	Slice	10457	**31DA19**
		3 ½ in	½ in		Stainless Steel	Spring	Slice	10458	**31DA20**
	Pointed/Sharp	3 ½ in	½ in		Stainless Steel, Non-Slip	Spring	Slice	10454	**31DA17**
		3 ½ in	½ in		Stainless Steel	Spring	Slice	10456	**31DA18**
	Slanted	3 ½ in	½ in		Stainless Steel, Non-Slip	Spring	Slice	10450	**31DA15**
		3 ½ in	½ in		Stainless Steel	Spring	Slice	10452	**31DA16**

**** Double Hinged Adjustment Arm***

KNIPEX WESTWARD KLEIN TOOLS IRWIN VISE-GRIP HKP JONARD TOOLS GREENLEE

Cable Cutters

Note: Do not use cutters for ACSR unless specified.

High-Leverage—Offer strong cutting force with less pressure applied by the user. 3LY18 is Klein Tools' Journeyman Series.

Ratchet—Hold cable in place while allowing 1-handed cutting. 1ED70 is a 2-handed ratchet cutter.

2-Speed Ratchet—Close rapidly to the outer surface, then ratchet normally to complete the cut.

1FAH6

2DFZ6

10D455

10D456

Overall Length	Cutting Cap.	Brand	Mfr. Model	Item No.
Cable Cutters				
6 ½ in	1 ¼ in Alum., ⅝ in Comm., 19/32 in Copper	Knipex	95 12 165 T BKA	54JD82
6 ½ in	15/64 in Copper Cable, RG-174 and RG-9 Coaxial Cable, 8 AWG Telephone Cable	Westward	—	10D464
6 ½ in	¼ in Copper and Aluminum Cable, RG-174/ RG-9 Coaxial Cable, 8AWG Telephone Cable	Westward	—	10D461
7 ½ in	Up to ¼ in Copper and Mild Steel Strands, Up to 3/16 in Aircraft Cable, Wire Rope, Aluminum and Copper Rods, Up to 5/32 in for Steel & Iron Rods	Klein Tools	63016	2DFZ5
7 in	Anvil Cutter for Solid and Stranded Copper Wire Up to 12 AWG and Stainless Steel Up to .032 in Diameter. Mild Steel Cutter for Conductors Up to .080 in Diameter. Curved Cutter for Solid and Stranded Copper Wire Up to 8 AWG, Multi-Conductor Cable Up to ½ in Diameter and Coaxial Cable Rg-6 Quad, Rg-59, and Rg-62.	Klein Tools	63020	6LFW3
8 in	3/0 Copper and Aluminum Stranded and Battery Cable	Irwin Vise-Grip	2078328	4YU79
8 ¼ in	1 in Aluminum and Copper Coaxial Cable	Klein Tools	63030	1ED94
8 ¼ in	9/32 in Copper and Aluminum Cable	Westward	—	10D462
9 ½ in	2/0 Copper Cable, 4/0 Aluminum Cable	Crescent H.K. Porter	0890CSJ	2H041
9 ¼ in	4/0 Aluminum, 2/0 Copper, 100 Pair Wire	Jonard Tools	JIC-63050	5TDD6
9 ½ in	⅜ in Copper and Aluminum Cable	Westward	—	10D460
9 ¼ in	Cuts Up to 4/0 Aluminum, Up to 2/0 Soft Copper, Up to 100 Pair, 24-Ga. Communication Cable	Westward	—	1YNA9
9 in	½ in Copper and Aluminum Cable	Westward	—	10D466
10 in	600 kcmil CU and AL, 1⅜ in Communications Cable	Greenlee	45206	21TX93
11 in	750kcmil CU, 1000kcmil AL, 2 in Communications Cable	Greenlee	45207	21TX94
12 ¼ in	300 MCM Copper, Aluminum, and Low Carbon Steel Bar	Westward	—	10D459
16 ¾ in	350 MCM Copper, 350 MCM Aluminum	Klein Tools	63035	4A858
17 ½ in	350 MCM Copper, 1 in Communications Cable	Greenlee	718F	1ED68
21 in	350kcmil CU, 500kcmil AL, 1¼ in dia. Communications Cable	Greenlee	704	21TX84
21 ¼ in	500 MCM Copper and Aluminum	Westward	—	10D458
24 ½ in	500 MCM Copper, 750 MCM Aluminum, 1¾ in Communications Cable	Westward	—	10D452
24 in	500 MCM/Copper and Aluminum Cable	Westward	—	22UN87
25 ½ in	500 MCM Copper, 1000 MCM Aluminum, 1¾ in Communications Cable	Greenlee	705	1FAH6
25 ½ in	500 MCM Soft Copper, 750 MCM Aluminum, 1⅜ in Communications Cable	Klein Tools	63041	4A859
25 ½ in	500 MCM Copper and 750 MCM Aluminum, 1⅜ in Communications Cable	Westward	—	1YNB5
28 in	1 in Copper or Aluminum, ⅜ in Wire Rope, 7/16 in ACSR	Crescent H.K. Porter	0290FHJN	2H011
28 in	2/0 ACSR Cable, ⅛ in Piano Wire, 350 MCM Copper and Aluminum Cable	Greenlee	749	4A765
31 ½ in	Up to 750 MCM Copper, 1000 MCM Aluminum, 1½ in Communications Cable	Greenlee	706	4HEA8
31 ½ in	500 mm 2 Copper and Aluminum Cable, 2¼ in Communication Cable	Westward	—	10D451
32 in	1000 MCM Copper, 1200 MCM Aluminum, 1¾ in Communications Cable	Klein Tools	63045	2DFZ6
32 in	1000 MCM/Copper and Aluminum Cable	Westward	—	22UN89
39 ½ in	¾ in Wire Rope, Stainless Steel, and Aircraft Cable	Westward	—	10D450

Overall Length	Cutting Cap.	Brand	Mfr. Model	Item No.
Wire Rope Cutters				
7 ½ in	¼ in Wire Rope	Knipex	95 62 190 T BKA	54JD83
Cable Cutter Set, 2-Pc. (Nos. 1YNA9 and 1YNB1)				
8 ½ in, 9 ¼ in	4/0 Aluminum and 2/0 Soft Copper 24-Ga./100 Pair Telephone Cable	Westward	—	1YNB2
High-Leverage Cable Cutters				
9 ¾ in	Up to 2/0 AWG Copper and Aluminum	Greenlee	727	5LE28
9 ¼ in	Up to #1 AWG, 2/0 Copper and Aluminum, 100 Pair Telecommunications Cable	Greenlee	727M	4HED3
9 ½ in	4/0 Aluminum, 2/0 Soft Copper, 100-Pair 24 AWG Communications Wire	Klein Tools	J63050	3LY18
9 ¼ in	4/0 Aluminum, 2/0 Soft Copper, 100-Pair 24 AWG Communications Wire	Klein Tools	63050	4A860
Ratchet Cable Cutters				
9 ½ in	1000 MCM Copper and Aluminum Cable	Westward	—	10D454
10 ½ in	500 MCM Copper, 750 MCM Aluminum, 1⅛ in Communications Cable	Greenlee	759	1ED69
10 ¼ in	1000 MCM Aluminum, 600 MCM Copper, 2 1/16 in Diameter Communications Cable	Klein Tools	63601	25D149
10 ¼ in	600 MCM Aluminum, 400 MCM Copper, 336 MCM Linnet ACSR, 2/0 Tripex Steel Messenger Cable	Klein Tools	63607	25D151
10 ¼ in	400 MCM Copper, 600 MCM Aluminum, 1⅛ in Communications Cable	Klein Tools	63060	4JA44
10 ½ in	500 MCM Cable MCM Aluminum and Multiconductor Cable	Westward	—	1YNB3
10 in	500 mm 2 AWG 1000 MCM Copper and Aluminum Cable	Westward	—	10D467
10 in	600 MCM Copper, 750 MCM Aluminum	Westward	—	10D455
11 ¾ in	8 AWG to 1000 kcmil Copper and Aluminum, 1 ¾ Communication Cable	Greenlee	760	5LE29
12 in	600 MCM/Stranded Copper, 750 MCM/Stranded Aluminum	Jonard Tools	RC-600	40J752
12 ¼ in	1000 MCM Copper, 1000 MCM Aluminum, 2-1/6 in Communications Cable	Klein Tools	63750	2DGA9
18 ¾ in	Communications Cable Max Capacity: 1¼ in Dia. ACSR, ACAR; 7/16 in Dia. Common Guy Strand; ⅝ in Dia. Steel Wire Rope; ½ in Dia. Steel Rod (C.R.S. Soft); 750 MCM Dia. Copper or Aluminum	Westward	—	10D456
28 in	2¼ in Soft Cable	Klein Tools	63700	25D154
2-Handed Ratchet Cable Cutter				
10 ¾ in	1000 MCM Copper, 1000 MCM Aluminum, 1⅛ in Communications Cable	Greenlee	761	1ED70
2-Speed Ratchet Cable Cutters				
15 ½ in	500 kcmil CU, 795 kcmil AL, 1 3/16 in Communications Cable	Greenlee	773	21TX95
19 ¼ in	750 MCM Copper, 795 MCM Aluminum, 1 3/16 in Communications Cable	Greenlee	774	1ED71
20 in	636 MCM ACSR Steel Core Cable	Greenlee	776	4GA99
Heavy-Duty Manual Communications Cable Cutters				
18 ¼ in	350 MCM Copper and Aluminum, 25mm Communication Cable	Westward	—	22UN73
26 ½ in	500 MCM Copper, 1000 MCM Aluminum, 38mm Communication Cable	Westward	—	22UN72
32 ¼ in	750 MCM Copper, 1000 MCM Aluminum, 38mm Communication Cable	Westward	—	22UN71
37 in	2¼ in Communications Cable	Greenlee	765	21TX92
37 in	MCM Cable 900-Pair Soft Copper and Aluminum, Up to 2¼ in Diameter Soft Cable	Klein Tools	63047	25D152

KLEIN TOOLS WESTWARD GREENLEE

BX/Flexible Conduit Cutters

10D465

11L580

Cuts BX cable, steel sheets, steel strapping, and bundling wire. 4A862 has a built-in stripping notch with plastic-dipped handles for easy gripping. 10D465 has high-frequency quenching and features a high-strength spring for cutting electrical cable. 11L580 has hand crank that easily cuts steel with a few quick turns.

Overall Length	Cutting Cap./Material	Cutting Action	Handle	Brand	Mfr. Model	Item No.
7 ¾ in	Cuts a Variety of Materials Including BX Cable, Sheet Metal, Steel Strapping, and Bundling Wire.	Shear	Plastic Dipped	Klein Tools	1104	4A862
8 in	⅛ in Soft Steel Wire Rope And Cable	Straight	PVC Grip	Westward	—	10D465
10⅝ in	1 in AC And MC Cable	Rotary	Molded	Greenlee	0952-01	11L580

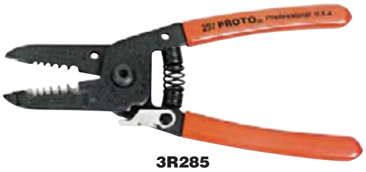
5TDA7

1YNA4

22PF01

2DGH1

3PB81



3R285

Wire Stripper/Cutters and Wire Tools

Description	Overall Length	Cap.	Brand	Item No.
Cable Slitter Tools				
Fiber Optic Cable Slitter Blade, Pkg. of 25	—	—	Jonard Tools	**5TDD2**
Fiber Optic Drop Cable Slitter, Flat Drop	4 in	.250 in	Jonard Tools	**5TDD1**
Cable Strippers				
Cable Stripper "Triple Action"	5 ¼ in	3⁄16 to 1⅛ in	Jonard Tools	**5TDA7**
Cable Stripper Blade	5⁄32 in	For Use With 5TDA7	Jonard Tools	**5TDA8**
Cable Stripping Tool	7 ½ in	8 AWG to 750 MCM	Greenlee	**454N79**
Pocket Cable Stripper	6 ½ in	1⅛ in	Westward	**1YMZ9**
Self-Adjusting Wire Stripper	9 in	10 to 34 AWG Solid and Stranded	Greenlee	**1ATA7**
THHN Cable Stripper	7 in	8 AWG to 1250 kcmil	Greenlee	**4HDZ9**
Wire Stripper	7 in	8 to 22 AWG	Westward	**1YMZ8**
Drop Cable Stripping Tools				
Cable Stripper	4 ½ in	¼ in	Cable Prep	**6JAX5**
Coax and UTP Cable Stripper	4 ¾ in	¼ in	Jonard Tools	**23Z417**
Coax Cable Stripper	5 in	—	Cable Prep	**6JDE6**
Coax Cable Stripper	7 ½ in	—	Cable Prep	**6JDF4**
Coax Cable Stripper, RG6/59	5 in	¼ in	Cable Prep	**6JDE7**
Coax Cable Stripper, RG7/11	5 in	¼ in	Cable Prep	**6JDF1**
Hardline Stripping/Coring Tools				
Cable Stripper	6 in	500 AWG	Cable Prep	**6JDH0**
Cable Stripper	6 in	625 AWG	Cable Prep	**6KDN5**
Multi-Purpose				
Strip/Cut/Loop/Crimp/Shear	8 ⅝ in	10 to 18 Stranded Wire, 8 to 16 AWG Solid, Screw Shearing 6-32 and 8-32	Klein Tools	**45PZ57**
Strip/Cut/Loop/Shear	8 ⅝ in	10 to 18 Stranded Wire, 8 to 16 AWG Solid, Screw Shearing 6-32 and 8-32	Klein Tools	**45PZ56**
Wire Stripper, Multi Functional Wire Strippers	7 ¾ in	10 to 26 AWG Standard, 8 to 22 AWG Solid	Klein Tools	**2DFE4**
Stripper/Cutter/Crimpers				
5-in-1 Wire Stripper/ Cutter/Crimper	8 ¼ in	22 to 10 AWG	Proto	**3R286**
Long Nose Wire Stripper/ Cutter/Crimper	8 ¼ in	22 to 10 AWG	Westward	**1YNA4**
Long Nose Wire Stripper/ Cutter/Crimper/Looper	8 ¼ in	22 to 10 AWG	Klein Tools	**5LL36**
Wire Stripper, Multi Functional Wire Strippers	8 ½ in	10 to 26 AWG Standard, 8 to 22 AWG Solid	Klein Tools	**2DGG9**
Wire Stripper/Cutter/Crimper	8 ½ in	8 to 22 AWG	Westward	**1YNA5**
Wire Stripper/Cutter/Crimper	8 ½ in	22 to 10 AWG	Proto	**3R287**
Wire Stripper/Cutter/Crimper, SS	7 ½ in	18 to 10 AWG	Greenlee	**22PF01**
Wire Stripper/Cutter/Crimper, SS	7 ½ in	18 to 10 AWG	Greenlee	**22PF02**
Wire Stripper/Cutter/Crimper, SS	9 in	8 to 18 AWG	Greenlee	**22PF06**
Stripper/Cutters				
Adjustable Wire Stripper/Cutter	5 ⅛ in	24 to 12 AWG	Klein Tools	**2DGD5**
Compact Wire Stripper/Cutter	5 in	26 to 12 AWG	Klein Tools	**2DGH1**
Curved Wire Stripper/Cutter	7 ⅛ in	20 to 10 AWG	Westward	**1YNA3**
Klein-Kurve Dual NM Cable Stripper/Cutter	7 ¾ in	12 to 14 AWG Solid, Screw Shearing 6 to 32 and 8 to 32, Strips and Cuts 14 to 16 Stranded	Klein Tools	**1YBR3**
Klein-Kurve Wire Stripper/Cutter	7 ⅛ in	6 to 12 AWG Standard, Screw Shearing 6 - 21 and 8 - 32	Klein Tools	**1YBP9**
Klein-Kurve Wire Stripper/Cutter	7 ⅛ in	12 to 20 AWG Standard, 18 to 10 AWG Solid, Screw Shearing 6 - 23 and 8 - 32	Klein Tools	**3PB81**
Klein-Kurve Wire Stripper/Cutter	7 ⅛ in	20 to 30 AWG Solid, 22 to 32 AWG Standard, Screw Shearing 6 - 32 and 8 - 32	Klein Tools	**2DGJ8**
Self-Adjusting Wire Stripper/Cutter	8 in	24 to 10 AWG	Irwin Vise-Grip	**1XFZ6**
Wire Stripper/Cutter	5 in	30 to 10 AWG	Paladin	**21TX96**
Wire Stripper/Cutter	6 ¼ in	16 to 8 AWG	Klein Tools	**2DGJ7**
Wire Stripper/Cutter	6 ¼ in	16 to 30 AWG	Westward	**1YNA2**
Wire Stripper/Cutter	6 ¼ in	18 to 10 AWG	Klein Tools	**4A854**
Wire Stripper/Cutter	6 ¼ in	20 to 10 AWG	Westward	**1YNA1**
Wire Stripper/Cutter	6 ¼ in	26 to 16 AWG	Klein Tools	**4A855**
Wire Stripper/Cutter	6 ¼ in	30 to 22 AWG	Klein Tools	**4A856**
Wire Stripper/Cutter	6 ⅛ in	10 to 20 AWG Solid, 12 to 22 AWG Standard	Klein Tools	**5LL37**
Wire Stripper/Cutter	6 ⅛ in	20 to 10 AWG	Proto	**3R285**
Wire Stripper/Cutter	6 ¾ in	10 to 22 AWG	Jonard Tools	**2TDK7**
Wire Stripper/Cutter	6 ¾ in	16 to 26 AWG	Jonard Tools	**2TDK8**
Wire Stripper/Cutter	6 ¾ in	20 to 30 AWG	Jonard Tools	**2TDK9**
Wire Stripper/Cutter	6 in	16 to 26 AWG	Greenlee	**22PF05**
Wire Stripper/Cutter	6 in	20 to 10 AWG	Greenlee	**22PF04**
Wire Stripper/Cutter	7 ½ in	6 to 16 AWG	Greenlee	**22PF03**
Wire Stripper/Cutter	7 ¾ in	20 to 10 AWG	Milwaukee	**52AY46**
Wire Stripper/Cutter	7 in	22 to 10 AWG	IDEAL	**5LJ02**
Wire Stripper/Cutter	9 in	10 to 20 AWG PVC or THHN Insulation, Up To ⅞ in L.	Greenlee	**21TX91**
Wire Stripper w/ Hold-Open Spring	5 in	26 to 12 AWG	Klein Tools	**2DFE6**

51-pc. Intermediate Tool Kit w/ Cordura Case 6C383

8-pc. Soft Grip Miniature Plier Set w/Case 5EWN5

Electronics Tool Kits

Each kit contains an assortment of professional hand tools to address most common issues encountered by technicians, service staff, and field engineers. Tools are mounted in pockets, with additional space provided for an individualized selection of other tools. For complete list of kit contents, see Grainger.com.

Description	Brand	Mfr. Model	Item No.
Tool Kits w/Cases			
51-pc. Intermediate Tool Kit w/Polyethylene Case	Xcelite	TCMB150STN	**6C381**
51-pc. Intermediate Tool Kit w/Cordura Case	Xcelite	TCS150STN	**6C383**
8-pc. Soft Grip Miniature Plier Set w/Case	Irwin Vise-Grip	2078714	**5EWN5**
Tools Only			
Precision End Nose Pliers	Westward	—	**1UG21**
Cases Only (No Tools)			
18 in W x 12 ⅝ in D x 4 ¼ in H	Xcelite	TCMB100MT	**6C481**
17 ¾ in W x 12 ⅝ in D x 5 ¾ in H	Xcelite	TCMB150MT	**6C483**
17 in W x 3 in D x 12 in H	Xcelite	TCS150MT	**6C484**

Crimpers

DIELESS CRIMPERS

Feature a wire cutter in the nose and plastic-covered handles. 1ED63 is for small lugs and splices, and fits in tool pouches.

CRIMPERS WITH DIES

49NV75 has a rotating, replaceable, color-coded dies for attaching lugs or connectors to wire and cable. 5KPH6 and 5KPN8 have pivot-action jaws and 2 die positions. 13H893 and 13H894 have revolving dies.

RATCHETING CRIMPERS

Put more crimping power into each squeeze. Kwik Cycle crimpers feature a ratchet-action mechanism that releases after proper crimp force is applied. Compound-Action Ratcheting Crimper with narrow-span handles has a built-in ratchet with safety release for uniform crimps every time. Full Cycle Ratcheting Crimper has color-coded wire size markings.

BATTERY TERMINAL CRIMPER

Features an all-in-one integral crimp nest with no removable parts to lose or rotating dies to set. User can set crimp depth with simple-to-use adjustment screw.

5LE32

13H894

4CN29

Cap.	Overall Length	For Use With	Brand	Mfr. Model	Item No.
Dieless Crimpers					
22 to 10 AWG	9 in	Insulated and Non-Insulated Terminals	Milwaukee	48-22-6103	**52AY47**
22 to 10 AWG	9 ¾ in	Insulated and Non-Insulated Solderless Terminals and Connectors	Klein Tools	1005	**5LL34**
22 to 10 AWG	9 ¾ in	Insulated and Non-Insulated Solderless Terminals and Connectors	Klein Tools	J1005	**1ED90**
22 to 10 AWG	9 ¾ in	Non-insulated Solderless Terminals and Connectors	Klein Tools	1006	**5LL35**
1000 kcmil Cu/750 kcmil Al	22 in	Electrical Lugs and Connectors	Ridgid	48373	**45NC06**
8 AWG to 250 KCMIL Copper, 8 to 4/0 AWG Aluminum	22 ⅜ in	UL and C-UL Classified Color Coded Lugs and Splices	Greenlee	1981	**5LE32**
8 to 1/0 AWG	10 in	Small Copper Connectors	Greenlee	K111	**1ED63**
4AWG to 1000 KCMIL Copper, 69 AWG to 1000 KCML Aluminum	26 in	Aluminum and Copper Lugs	Greenlee	HK12ID	**6ENZ5**
Cat3, Cat5, Cat5e, Cat6, Flat Satin, RJ-11/12/22, RJ-45, Snagless RJ-45	7 ½ in	Snagless Connectors, Flat Satin	Paladin	1561	**4NHR6**
Cable Copper: 250, 4/0, 3/0, 2/0, 1/0, #1, #2, #3, #4, #5, #6, #8, Aluminum Terminals: 4/0, 3/0, 2/0, 1/0, #1, #2, #3, #4, #5, #6, #8	23 in	Lugs and Splices	Westward	38YG96	**38YG96**
Crimpers with Dies					
8 to 1/0 AWG	15 ¾ in	Copper Connectors	Greenlee	K05-SYNCRO	**49NV75**
22 to 10 AWG	9 ½ in	Electrical Terminations and Connections	Greenlee	KP1022	**5KPH6**
22 to 10 AWG	9 ½ in	Electrical Terminations and Connections	Greenlee	KP1022D	**5KPN8**
7-4/0 AWG	24 ⅞ in	Non-Insulated Connectors	Westward	—	**13H893**
10AWG, 7AWG, 5AWG, 3AWG/2AWG, 1/0AWG	15 ⅜ in	Non-Insulated Connectors	Westward	—	**13H894**
Ratcheting Crimpers					
Kwik Cycle					
22 to 6 AWG	12 ⅞ in	Non-Insulated Terminals	Greenlee	K2-1BGL	**21TX86**
Compound-Action					
22 to 10 AWG	9 in	Insulated Terminals	Klein Tools	T1710	**2DFE2**
Full Cycle					
22 to 10 AWG	9 in	Insulated Terminals	Klein Tools	T1715	**2DFE3**
Ratcheting Crimpers with Dies					
Kwik Cycle					
22 to 8 AWG	9 in	Noninsulated Terminal Die Sets	Greenlee	45505G	**4CN30**
22 to 10 AWG	9 in	Insulated Terminal Die Sets	Greenlee	45500G	**4CN29**
Battery Terminal Crimper					
6 to 4/0 AWG	19 ½ in	Crimping Lugs and Terminals	Klein Tools	2006	**25D147**

Electric Cable Pullers and Accessories

Attach to 1" and larger conduit with no loose parts. Self-contained units have high-torque integral motor. Circuit breaker on motor switch stops the puller motor if it becomes overloaded.

ELECTRIC CABLE PULLERS

Gardner Bender—Deliver smooth power with no chains or sprockets to break. Can be assembled in multiple configurations, so that it can be mounted almost anywhere, even in tight corners. Powerful motor can start under full load.

Greenlee—31AD38 offers high and low speeds for intermediate and continuous pulling. High speed is for loads up to 1000 lb. and low speed is for loads up to 2000 lb. Portable handle, wheels, and dolly base increase mobility around industrial facilities and offer self storage. There are no loose pieces, minimizing lost parts and set-up time. Boom extends up to 8 ft. Quick-adjust clamp easily connects to the outside of 1" or larger conduit sizes without need for adapters. Use with Greenlee 9/16" double-braided composite pulling rope. Turbo Puller 454N82 sets up in less than 60 seconds. 2-speed motor is designed for 6,000 –lb. loads. Right-angle sheave allows you to stand it out of the direct line of force. 15X788 and 15X797 use Greenlee ⅞" double-braided composite rope. Pulling speed ranges from 2000 lb. at 8 fpm (feet per minute) to 8000 lb. at 6 fpm. 4HEA6 features 6,5000 max. capacity.

SHEAVES

Aluminum alloy hook sheaves allow user to configure the direction cable and wire is to be pulled through conduit. Welded steel frames with forged steel closure-type hooks. Self-lubricated bearings.

15V963

31AD38

Description	Pulling Force (lb.)	Brand	Mfr. Model	Item No.
Electric Cable Pullers				
Brutus Cable Puller	8,000	Gardner Bender	CP8000	**15V963**
Portable Cable Puller	2,000	Greenlee	G3	**31AD38**
Turbo Cable Puller	6,000	Greenlee	G6	**454N82**
Ultra Tugger Cable Puller w/Chain Mount	10,000	Greenlee	6901	**15X797**
Ultra Tugger Portable Cable Puller	8,000	Greenlee	08000	**15X788**
w/Mobile Versi-Boom	10,000	Greenlee	6906	**15X798**

Description	Max. Cap.	Brand	Mfr. Model	Item No.
Cable Puller Accessories				
Cable Pulling Rope				
9/16 in x 300 ft	4000 lb	Greenlee	35283G	**4HEA2**
9/16 in x 600 ft	4000 lb	Greenlee	35284	**4HEA3**
½ in x 300 ft	2200 lb	Greenlee	455	**1XGB4**
½ in x 600 ft	2200 lb	Greenlee	456	**1XGB5**
Cable Puller Sheaves				
Roller 6 in dia x 5 in Width	4000 lb	Greenlee	650	**4HEA4**
Roller 12 in dia x 5 in Width	4000 lb	Greenlee	651	**2NYG9**
Roller 18 in dia x 5 in Width	4000 lb	Greenlee	652	**2NYH1**
Roller 24 in dia x 5 in Width	4000 lb	Greenlee	653	**2NYH2**
Cable Pulling Grip Kit				
Cable Pulling Grip	—	Greenlee	629	**4HEA6**
Cable Pulling Jaw Grip				
4 B&S solid 0.20 in Max. Cable Size	1,500 lb	Klein Tools	1613-30	**2DGR4**
2 B&S 0.25 in Max. Cable Size	2,500 lb	Klein Tools	1604-10	**2DFG1**
Steel Strand 0.50 in Max. Cable Size	5,000 lb	Klein Tools	1604-20	**2DGR2**
Steel Strand 0.50 in Max. Cable Size	5,000 lb	Klein Tools	1604-20L	**2DGR3**
Wire Rope 0.75 in Max. Cable Size	8,000 lb	Klein Tools	1625-20	**2DGR5**
Wire Rope 1 in Max. Cable Size	8,000 lb	Klein Tools	162520-1	**2DGR6**
0.37 in Max. Cable Size	4,500 lb	Klein Tools	1613-40	**2DFG2**
0.55 in Max. Cable Size	8,000 lb	Klein Tools	1684-5	**2DFG7**

2VZA9

444N80

Journeyman Trade Tool Sets

No. of Pieces	Tool Families Included	Tool Storage Included	Brand	Mfr. Model	Item No.
Electricians Tool Kits					
12	Electrical and Telecomm Tools, Measuring Tools, Pliers, Screwdrivers	Pouch	Greenlee	0159-13	**2NYH3**
17	Awls and Scribers, Cutting Tools, Drilling/Extracting/Tapping Tools, Hex and Torx Keys, Measuring Tools, Miscellaneous Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools	Caddy	Greenlee	0159-17ELEC	**416J65**
18	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0140	**444N78**
28	Cutting Tools, Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Backpack	Klein Tools	80028	**2VZA9**
28	Awls and Scribers, Cutting Tools, Drilling/Extracting/Tapping Tools, Hex and Torx Keys, Measuring Tools, Miscellaneous Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools	Backpack	Greenlee	0159-28BKPK	**416J63**
28	Awls and Scribers, Cutting Tools, Drilling/Extracting/Tapping Tools, Hex and Torx Keys, Measuring Tools, Miscellaneous Tools, Nut Drivers and Nutsetters, Screwdrivers, Striking Tools	Bag	Greenlee	0159-28MULTI	**416J64**
Electronics Tool Kit					
6	Electrical and Telecomm Tools, Pliers, Screwdrivers	None	Greenlee	0159-36	**11L581**
Journeyman Tool Sets					
17	Electrical and Telecomm Tools, Measuring Tools, Pliers, Screwdrivers, Striking Tools	Caddy	Greenlee	0159-12	**2NYH4**
18	Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Belt, Pouch	Klein Tools	80118	**2DGP4**
41	Awls and Scribers, Cutting Tools, Electrical and Telecomm Tools, Measuring Tools, Nut Drivers and Nutsetters, Pliers, Screwdrivers, Wrenches	Backpack	Klein Tools	80141	**2VZC1**
Maintenance Tool Kit					
19	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0142	**444N80**
Plumbers Tool Kit					
22	Cutting Tools, Pliers, Screwdrivers	Case	Milwaukee	48-22-0141	**444N79**

Description	L	Tape Size	Brand	Mfr. Model	Item No.
Fish Tapes					
Steel	50 ft	⅛ in x 0.060 in	Greenlee	438-5H	**1ED72**
	50 ft	3/16 in	Greenlee	FTN536-50	**2NXF4**
	100 ft	⅛ in	Greenlee	FTSS438-100	**3WAH5**
Fiberglass S-Class Tuff-Grip Pro	100 ft	3/16 in	IDEAL	31-063	**10F507**
Nylon	100 ft	3/16 in	Greenlee	FTN536-100	**2NXF5**
Steel	100 ft	¼ in x 0.060 in	IDEAL	31-050	**31AD58**
Steel	120 ft	⅛ in x 0.060 in	IDEAL	31-036	**31AD47**
Stainless Steel	120 ft	⅛ in x 0.060 in	IDEAL	31-066	**31AD49**
Fiberglass	120 ft	3/16 in	IDEAL	31-554	**31AD70**
Magnum Pro Steel	125 ft	⅛ in x 0.060 in	Greenlee	FTS438-125	**2NXE8**
Fiberglass	200 ft	3/16 in	Klein Tools	56014	**15X659**
Fiberglass	200 ft	3/16 in	IDEAL	31-155	**31AD66**
Blued Steel, Laser Etched	240 ft	⅛ in x 0.060 in	IDEAL	31-057	**10F503**
Magnum Pro Steel	240 ft	⅛ in x 0.060 in	Greenlee	FTS438-240	**2NXE9**
Steel, Smart Mark w/ Speed Flex Leader	250 ft	⅛ in	Greenlee	FTS438DL-250	**11L584**
	400 ft	¼ in	Jameson	6-14-400M	**6GCP8**
Blued Steel, Laser Etched	120 ft	⅛ in x 0.060 in	IDEAL	31-056	**10F502**
Fiberglass	100 ft	11/64 in	Greenlee	FTXF-100	**780AW7**
Fiberglass	100 ft	3/16 in	IDEAL	31-087	**31AD40**
	50 ft	3/16 in	IDEAL	31-062	**10F506**
Fiberglass S-Class Tuff-Grip Pro	200 ft	3/16 in	IDEAL	31-064	**10F505**
Fiberglass S-Class Tuff-Grip Pro	100 ft	3/16 in	IDEAL	31-061	**10F504**
Fiberglass Tuff-Grip Pro	120 ft	3/16 in	IDEAL	31-544	**6ECR4**
Fiberglass Tuff-Grip Pro	60 ft	3/16 in	IDEAL	31-542	**6ECR3**
Flexible Steel	100 ft	3/16 in	Greenlee	FTFS439-100	**45JY05**
Flex-O-Twist Spiral Wound Steel	50 ft	3/16 in	Greenlee	FTFS439-50	**2NXF1**
Magnum Pro Steel	65 ft	⅛ in x 0.060 in	Greenlee	FTS438-65	**2NXE7**
Nylon	50 ft	5/32 in	Westward	—	**21CJ16**
	100 ft	3/16 in	IDEAL	31-092	**31AD52**
	25 ft	¼ in x 0.030 in	Greenlee	438-2X	**1ED73**
	150 ft	⅛ in	Greenlee	FTS438DL-150	**11L583**

Description	L	Brand	Mfr. Model	Item No.
Flexible Tape Leaders				
Flexible	3/16 in x 6½ in	Westward	—	**6EXU0**
Speedflex	⅛ in Thick, 12 in L	Greenlee	439-2	**11L582**
Flex-O-Twist	12 in L	Greenlee	439-1	**4CN02**

Fish Tapes and Wire/Cable Pullers

FISH TAPES

Steel—Nonmetallic case will not dent or rust. Winder slide is included for rewind of tape.

Smart Mark—Laser etched ft. and meter distance markings every 1 ft./0.3m (fist mark is at 2 ft./0.6m). Speed Flex leader lets you fish farther and faster.

Magnum Pro Steel—Corrosion-resistant tape.

Flex-O-Twist—Tape slips through lateral locking and vertical bends.

Fiberglass—Nonconductive tape has low-friction coating and noncoiling properties.

Nylon—Curl-resistant nylon tape has 200 to 250-lb. tensile strength.

FISH LINE

Center feed assures payout without tangling. Can be pulled into the run with the wire, making it easy to add wires at a later date. Strong, lightweight nylon is mildew-resistant.

FISH STICKS

Push or pull wires over long distances, including subfloors, crawl spaces, and attics.

FISH RODS

Fiberglass rods provide added rigidity when multiple sections are threaded together. Glow-in-the-dark fishing stick 1FAH7 provides high visibility in dark spaces and includes three 5-ft. pieces for a total of 15 ft.

Description	L	Brand	Mfr. Model	Item No.
Fish Line				
Nylon	2150 ft	Greenlee	595	**4CN04**
Fish Sticks				
Telescoping	12 ft	Greenlee	FP12	**1XGB8**
Telescoping	18 ft	Greenlee	FP18	**4GA97**
Telescoping	24 ft	Greenlee	FP24	**4GA98**
Fiberglass	12 ft	IDEAL	31-611	**31AD81**
Fiberglass	24 ft	IDEAL	31-612	**31AD82**
5-Pc. Set; Includes 3 Rods, Hook Nose Tip, and Bullet Nose Tip	12 ft	Westward	—	**21CJ17**
7-Pc. Set; Includes 5 Rods, Hook Nose Tip and Bullet Nose Tip	24 ft	Westward	—	**21CJ18**
Bullet Nose Tip	—	Westward	—	**21CJ20**
Fish Rods				
Lo-Flex Glow Rod Set, 5-Pc.	12 ft	Klein Tools	56312	**31ME19**
Hi-Flex Glow Rod Set, 5-Pc.	18 ft	Klein Tools	56418	**31ME26**
Mid-Flex Glow Rod Set, 8-Pc.	9 ft	Klein Tools	56409	**31ME24**
Fish Stix	4 ft to 12 ft	Greenlee	540-12	**1ED74**
Fish Stix	3 ft to 24 ft	Greenlee	540-24	**1ED75**
Glo Stix	5 ft to 15 ft	Greenlee	540-15	**1FAH7**

GREENLEE

Vacuum/Blower Power Fishing Systems

FISHING SYSTEMS

Vacuum/Blower Power Fishing System—Everything necessary to blow or vacuum fish line, poly line, or measuring tape.

Li'L Fisher® Vacuum/Blower Power Fishing System—Compact unit has vacuuming and blowing capabilities, moving line through the conduit run. Power unit detaches from canister for easy cleaning. Includes unit and hose only.

CONDUIT PISTONS

Fit all types and sizes of conduit, ½ through 2" (including rigid, IMC, and EMT).

POLY LINE

Tangle-resistant line pulls rope through conduit with power fish tape systems.

Note: Not for pulling wire or cable.

ACCESSORIES

Conduit Measuring Tape—Measurements are permanently printed at every foot—from 0 to 3000 ft.—to measure lengths of conduit runs. Waterproof polyester has 130-lb. breaking strength.

Note: Dispenser available; go to Grainger.com®

Gel and Cream Lubricants—Adhere to cable and wire without dripping and are compatible with all insulation types. Clean up using only soap and water.

Accessory Kit—Includes 85-lb. x 2150-ft. fish line, pistons for ½", ¾",1, 1¼", 1½, and 2" conduit, adapter cones for ½" to 1" and 1¼" to 2½" conduit, adapter nozzle for measuring tape.

Description	Tank Size	Includes	Mfr. Model	Item No.
Fishing Systems				
Vacuum/Blower Power Fishing System	12 gal	String Adapter, Conduit Seals: ½ to 1 in, 1¼ to 2½ in, 3 to 4 in, EMT and Rigid Conduit Pistons: ½ to 4 in, Pull String: 2150 ft	690-15	**22PE97**
Li'L Fisher Vacuum/Blower Power Fishing System	5 gal	1½ in dia x 10 ft Hose	390	**4CN23**

22PE97

4CN23

4A762

5C647

Description	Mfr. Model	Item No.	Pkg. Qty.
Conduit Pistons			
For ½ in Conduit	608-5	**3PA88**	5
For ¾ in Conduit	609-5	**3PA89**	5
For 1 in Conduit	610-5	**3PA90**	5
For 1¼ in Conduit	611-3	**3PA91**	3
For 1½ in Conduit	612-2	**3PA92**	2
For 2 in Conduit	613	**5C646**	1

Description	Mfr. Model	Item No.	Pkg. Qty.
Poly Line			
210 lb x 500 ft	430-500	**1FAJ4**	1
210 lb x 6500 ft	430	**4A762**	1
240 lb x 5200 ft	431	**4A763**	1
Accessories			
Conduit Measuring Tape	435	**4A764**	1
Cream Lubricant, 1 qt.	CRM-Q	**4A801**	1
Gel Lubricant, 1 qt.	GEL-Q	**5C647**	1
Gel Lubricant, 1 gal.	GEL-1	**4HEA7**	1
Accessory Kit, For Use with 4CN23	392	**4CN25**	1

GREENLEE

Pipe and Conduit Rack, Wire Carts, and Caddy

MOBILE PIPE AND CONDUIT RACK

Rack has 7 individual storage compartments. Folds and stacks for easy storage and transport. 100-lb. capacity.

WIRE CART

Large-capacity cart can be used vertically or horizontally; a built-in wire guide permits horizontal dispensing. Tubular-steel welded construction. Features 5 reel axles with spring-clip retainers and includes 2 positions for axle storage. Can configure for large reels with no loose parts. Handles 6" spools. Can pass through 28"W openings.

HAND TRUCK/WIRE CART

Includes five ⅝"-dia. spindles for storing and dispensing up to fifteen 500-ft. reels of #14 THHN wire. Has storage space for 3 spindles and clips when not in use. Lay flat when dispensing, stand upright to use as a hand caddy. Cap.: two 1000-ft. (305m) spools up to 22" (558.8mm) dia. x 16⅜" wide; three 2500-ft. (762m) spools up to 14" (355.6mm) dia. x 16⅜" (416mm) wide; ten 500-ft. (152m) spools up to 7" (177.8mm) dia. x 8" (203.2mm) wide; and fifteen 500-ft. (152m) spools up to 7" (177.8mm) dia. x 5⅜" (136.5mm) wide. Can roll through 23"W openings.

Expander Kit—Expands the capacity of 2MDN8 by up to 60%. Bolts on without drilling holes. 41"H x 12⅝"W. Includes 2 supports, 3 spindles, and mounting hardware. Dispenses up to 24 spools up to 7" dia. x 5⅜"W; 16 spools up to 7" dia. x 8"W; 5 spools up to 12" dia. x 16⅜"W; 3 spools up to 14" dia. x 16⅜"W; or 2 spools up to 22" dia. x 16⅜"W.

6-SPINDLE WHEELED WIRE CADDY

Holds 6 spools of wire up to 18" dia. Steel welded frame and large 8" wheels with front locking caster for easy movement under heavy load.

Mobile Bar & Pipe Rack 4GA96

Three 4GA96 units, stacked

5C648 (Wire Not Included)

2MDN8 with 1ED76 (Wire Not Included)

Description	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Mobile Pipe and Conduit Rack	63 ½ in	34 in	58½ in	Greenlee	668	**4GA96**
Wire Cart	54 ½ in	27 ⅛ in	26½ in	—	5C648	**5C648**
Hand Truck/Wire Cart	47 in	23 in	25 in	—	2MDN8	**2MDN8**
Hand Truck/Wire Caddy Expander Kit	41 in	—	12 ⅝ in	Greenlee	10462	**1ED76**
6-Spindle Wheeled Wire Caddy	31 in	30 in	30 in	Greenlee	909	**4HED2**

Electric
6TFG7

Mechanical
1ATF2

Hand Bender
4A733

GREENLEE · GB Gardner Bender · KLEIN TOOLS · IDEAL · WESTWARD

Bending Equipment

ELECTRIC BENDERS

The 555 Series, commonly referred to as "triple nickel", are portable units bending ½" to 2" dia Rigid, IMC, and EMT conduit up to 180°. Built-in bend charts guide for accurate bends. Operate with a remote pendant control.

Combos include bender and shoe listed on same line.

PROGRAMMABLE BENDER

Intellibender offers conduit capacity: ¾" rigid, 1 to 2" rigid, EMT, or IMC. Sensors automatically adjust for conduit dia. and type. LCD interface.

MECHANICAL BENDERS

Standard—Ratchet action and built-in 0° to 90° bending gauge. Capacities: ½", ¾", and 1" IMC and rigid conduit. Welded frame and wheels. Handle not included. Use 5 ft. of 1" rigid conduit for handle.

Heavy-Duty—Independent ratchet mechanism simplifies both conduit bending and shoe changes. Each shoe has its own "swing-away" clamp to lock pipe in place. Conduit capacities: ¾" to 2" EMT, ½" to 1¼" IMC, ½" to 1½" rigid, and ½" to 1½" aluminum. Includes frame and heavy-duty undercarriage with wheels, 5 shoes, 2 EMT follow bars, EMT follow bar roller, roller, and roller pin.

Little Kicker Offset Bender—Bends offsets for ½" EMT.

Description	Brand	BENDER Mfr. Model	BENDER Item No.	SHOE Mfr. Model	SHOE Item No.	COMBO Mfr. Model	COMBO Item No.
Electric Benders							
w/Standard Pendant; ½-2 in EMT Shoes	Greenlee	555CX	**6TFG7**	13934	**22PE99**	7J385	**7J385**
½ to 2 in , 120V, Horizontal and Vertical Operating Position	Greenlee	854DX	**38GU29**	—	—	—	—
w/Standard Pendant; ½-2 in Rigid/IMC Shoes	Greenlee	—	—	28008	**22PE98**	7J384	**7J384**
w/½ in, 1¼ in 1½ in and 2 in Shoes and Support Roller Units	Gardner Bender	B2555EMT	**15V885**	—	—	—	—
w/½ in and 1¼ in Rigid and IMC Shoes, and Support Rollers; 1½ and 2 in Rigid Shoes and Support Rollers	Gardner Bender	B2555RIG	**15V886**	—	—	—	—
Programmable Benders							
Cyclone w/Bending Shoe and Weather Resistant Cover	Gardner Bender	B2000	**15V883**	—	—	—	—
IntelliBender Electric Conduit Bender, ½ - 2 in Rigid/EMT/IMC	Greenlee	855GX	**6TFG6**	—	—	—	—
Mechanical Benders							
Standard Mechanical Bender	Greenlee	1800	**1ATF2**	—	—	—	—
Heavy-Duty Mechanical Bender	Greenlee	1818	**1ATF3**	—	—	—	—
Little Kicker Offset Bender	Greenlee	1810	**4A724**	—	—	—	—

Description	Brand	Mfr. Model	Item No.
PVC Heating/Bending Equipment			
Electric PVC Heater for ½ to 2 in PVC Pipe	Greenlee	849	**5C637**
PVC Heating Blanket for ½ to 1½ in PVC Pipe	Greenlee	860-1-1/2	**5C638**

EMT Size	Rigid/ IMC Size	Centerline Bend Radius	Brand	Mfr. Model	Item No.
Hand Benders w/Handles - Cast Iron					
½ in	—	4 in	Klein Tools	51603	**4VDH3**
¾ in	½ in	5 in	Klein Tools	51604	**4VDH4**
Hand Benders w/Handles - Ductile Iron					
½ in	—	4 5⁄16 in	IDEAL	74-026	**6ECR0**
¾ in	½ in	5 ¼ in	IDEAL	74-027	**6ECR1**
1 in	¾ in	6 ½ in	IDEAL	74-028	**6ECR2**
1 ¼ in	1 in	9 ¾ in	IDEAL	74-034	**10F486**
Hand Benders w/Handles - Aluminum					
½ in	—	4 11⁄32 in	IDEAL	74-046	**10F494**
¾ in	½ in	5 13⁄64 in	IDEAL	74-047	**10F495**
1 in	¾ in	—	Klein Tools	51605	**61UW02**
½ in	—	—	Klein Tools	51606	**61UW03**

EMT Size	Rigid/ IMC Size	Centerline Bend Radius	Brand	Mfr. Model	Item No.
Hand Benders w/out Handles - Ductile Iron					
½ in	—	4 11⁄32 in	IDEAL	74-001	**10F487**
¾ in	½ in	5 13⁄64 in	IDEAL	74-002	**10F488**
1 in	¾ in	6 37⁄64 in	IDEAL	74-003	**10F489**
1 ¼ in	1 in	9 ¾ in	IDEAL	74-006	**10F490**
Hand Benders w/out Handles - Aluminum					
½ in	—	4 3⁄16 in	Greenlee	840A	**4A732**
¾ in	½ in	5 ⅛ in	Greenlee	841A	**4A733**
1 in	¾ in	6 ½ in	Greenlee	842A	**4A734**

Handle Length	For Use With	Brand	Mfr. Model	Item No.
Handles for Hand Benders				
38 in	10F496, 74-002, 74-031, Mfr. No. 74-001	IDEAL	74-019	**10F491**
	6EXR5, 6EXR6	Westward	—	**6EXR8**
	51608, 51609	Klein Tools	51427	**4VDG3**
	4A732, 4A733	Greenlee	84H1	**5C635**
44 in	10F489 Conduit Bender	IDEAL	74-020	**10F492**
	51610	Klein Tools	51428	**4VDG4**
	4A734	Greenlee	84H2	**5C636**
54 in	Mfr. No. 56211	Klein Tools	51429	**4VDH8**
55 in	Mfr. No. 74-006	IDEAL	74-021	**10F493**

Ratcheting
Reel Stand
1FAH3

Screw Type
Reel Stand
5C649

Spindle
1FAH4

GREENLEE

Telescoping Reel Stands and Spindles

Use with pins for rough adjustment and a screw-type final height adjustment. Stands have ball bearing rollers. 1FAH3 is a ratcheting stand, providing specific adjustments to spool height. Order spindles separately.

Description	Load Capacity	Overall Height	For Use With	Mfr. Model	Item No.
Ratcheting Reel Stand	3,750 lb	47 in	58 to 90 in Reel Dia	656	**1FAH3**
Screw Type Reel Stand	2,500 lb	54 in	46 to 96 in Reel Dia	683	**5C649**
Screw Type Reel Stand	2,500 lb	27 in	28 to 56 in Reel Dia	687	**5C650**
Spindle, 2 ⅜ in dia. x 62 in L	6,000 lb	2 ½ in	5C650	647	**5C652**
Spindle, 2 ⅜ in dia. x 76 in L	5,000 lb	2 ½ in	5C649	684	**5C651**
Spindle, 3 ½ in dia. x 100 in L	7,500 lb	3 ½ in	1FAH3 Reel Stands, 5C649, 5C650	657	**1FAH4**

Combination Drill/Tap and Countersink Sets

GREENLEE A Textron Company · WESTWARD

Bits drill, tap, and debur mild steel, aluminum, copper, brass, and plastic in 1 step. Back taper prevents thread damage from over-drilling. Made of high-speed steel with split-point drill tip. ¼" shank. Twist drill and plug tap style. Include plastic case and quick-change adapter.

Electrician's Kit—Features hex shank, ¼" quick change professional-grade driver bits, self-centering high-speed drill bits, hammer drill rated carbide grade tips and hardened shank masonry drill bits, quick release chuck, and security bits.

6EXL2

Description	Sizes Incl.	Brand	Mfr. Model	Item No.
6-Pc. Combination Drill and Tap Set	6-32, 8-32, 10-24, 10-32, 12-24 and ¼-20	Greenlee	DTAPKIT	4GB12
	M3 x 0.50, M4 x 0.70, M5 x 0.80, M6 x 1.0, M8 x 1.25 and M10 x 1.50	Greenlee	DTAPKITM	1ANZ3
6-Pc. Drill/Tap/Countersink Set	#6-32, 8-32, 10-24, 10-32, 12-24 and ¼-20	Westward	—	6EXL3
	M3x0.50, M4x0.70, M5x0.80, M6x1.0, M8x1.25 and M10x1.50	Westward	—	6EXL2
6-Pc. Combination Drill and Tap Set	8-32NC, 10-32NF, ¼-20NC	Greenlee	LDTAPKIT	30HK33
68-Pc. Electrician's Kit, 6-32, 8-32, 10-32, ¼-20 Tap Sizes	—	Greenlee	DDKIT-1-68	11L585

Drill/Tap Countersink Bits

GREENLEE A Textron Company · WESTWARD

Use on mild steel, aluminum, copper, and brass. Back taper prevents thread damage from over-drilling. Made of high-speed steel with split-point drill tip. ¼" shank. Bright finish.

6EXL5

6EXL4

Size	GREENLEE Mfr. Model	GREENLEE Item No.	WESTWARD Item No.
#6-32	DTAP6-32	1FAL3	6EXL7
#8-32	DTAP8-32	1ANV8	6EXL8
#10-32	DTAP10-32	1FAL1	6EXN0
#10-24	DTAP10-24	1FAJ9	6EXL9
#12-24	DTAP12-24	1FAL2	6EXN1
¼"-20	DTAP1/4-20	1FAJ8	6EXL5
¼"-20	LDTAP1/4-20*	30HK36	—
⅜"-16	DTAP3/8-16	1ANZ5	6EXL6
5⁄16"-18	DTAP5/16-18	1ANZ4	6EXL4

**Long drill.*

Step Drill Bits

WESTWARD

Double flute design has 2 cutting surfaces for mild steel, copper, aluminum, brass, wood, plastics, and laminates. No pilot hole needed. High-speed steel with oxide-coated finish. Nonskid self-starting tip with 3-flatted shank and ⅜" hex arbor hole. ⅜" shank.

6EXN4

Size Range	Step Thickness	Item No.
Individual Bits		
⅛ in to ½ in	⅛ in	6EXN3
3⁄16 in to ⅞ in	⅛ in	6EXN4
¼ in to 1 ⅜ in	⅛ in	6EXN5
½ in to 1 ⅛ in	⅜ in	6EXN6
High Speed Steel		
½ in to 1 ⅛ in, ⅛ in to ½ in, 3⁄16 in to ⅞ in	(1) ⅜ in, (2) ⅛ in	6EXN2

Hole Cutter Kits

GREENLEE A Textron Company · Milwaukee · WESTWARD

High-Speed Steel—Faster than standard hole saws, with less chance of broken teeth. Split-point drill prevents "walking." Precision-ground teeth cut holes in mild steel up to 10 ga.

Carbide Tipped—Tungsten carbide teeth cut holes in stainless steel, mild steel, aluminum, copper, and brass.

1ANV9

6EXN7

No. of Pieces	Saw Sizes Included	Includes	Brand	Mfr. Model	Item No.
High Speed Steel					
11	⅞ in, 1 ⅛ in, 1 ⅜ in, 1 ¾ in, 2 in, 2 ½ in	(3) Arbors, Hex Wrench, Plastic Case	Greenlee	930	4GB13
Carbide Tipped					
5	⅞ in, 1 ⅛ in, 1 ⅜ in	Additional Pilot Bit, Arbor with Pilot Bit	Milwaukee	49-22-8300	48Z664
4	⅞ in, 1 ⅛ in, 1 ⅜ in	Hex Key, Pilot Drill Bit, Plastic Carrying Case	Greenlee	635	1ANV9
4	⅞ in, 1 ⅛ in, 1 ⅜ in	Hex Key, Pilot Drill Bit, Plastic Carrying Case, Quick Change Arbor	Greenlee	655	1ANZ1
7	⅞ in, 1 ⅛ in, 1 ⅜ in, 1 ¾ in, 2 in	Additional Pilot Bit, Arbor with Pilot Bit	Milwaukee	49-22-8310	48Z665
10	⅞ in, 1 ⅛ in, 1 ⅜ in, 1 ¾ in, 2 in, 2 ½ in	Arbors (3) 6EXP5, Hex Wrench, Wooden Case	Westward	—	6EXN7

Hole Cutters and Accessories

Milwaukee · GREENLEE A Textron Company

Teeth cut stainless steel, mild steel, aluminum, copper, and brass. Flange stop prevents over-drilling. Quick-change arbor system allows cutter head changes with a simple push-on turn. All individual cutters have ⅜" arbor hole.

1FAH8

1XRP6

Saw Dia.	Max. Cutting Depth	Brand	Item No.
Arbor Included			
High Speed Steel			
⅞ in	¼ in	Greenlee	1XRN8
1 ⅛ in	¼ in	Greenlee	1XRN9
2 ½ in	¼ in	Greenlee	1XRP6
Arbor Not Included			
Steel			
11⁄16 in	½ in	Milwaukee	48Z630
¾ in	½ in	Milwaukee	48Z631
13⁄16 in	½ in	Milwaukee	48Z632
⅞ in	½ in	Milwaukee	48Z633
15⁄16 in	½ in	Milwaukee	48Z634
1 in	½ in	Milwaukee	48Z635
1 ⅛ in	½ in	Milwaukee	48Z637

Saw Dia.	Max. Cutting Depth	Brand	Item No.
Tungsten Carbide			
⅞ in	⅛ in	Greenlee	1FAH8
1 ⅛ in	⅛ in	Greenlee	1FAH9
1 ⅜ in	⅛ in	Greenlee	1FAJ1
1 ¾ in	⅛ in	Greenlee	1FAJ2
2 in	⅛ in	Greenlee	1FAJ3
Individual Cutters			
High Speed Steel			
1 ¼ in	¼ in	Greenlee	1XRP1
1 ⅜ in	¼ in	Greenlee	1XRP3
1 ¾ in	¼ in	Greenlee	1XRP4
2 in	¼ in	Greenlee	1XRP5
Steel			
1 ⅜ in	½ in	Milwaukee	48Z641
1 ½ in	½ in	Milwaukee	48Z643

Description	Pilot Drill Size	Fits Hole Saw Dia.	Brand	Item No.
Accessories				
For Use with High Speed Steel Cutters				
Pilot Drill Bit	3⁄16" dia. x 1½" L	⅞" to 1⁷⁄₃₂"	Greenlee	1XRP9
For Use with Quick Change Carbide Cutters				
Quick Change Arbor	¼" dia. x 2¾" L	—	Milwaukee	48Z566
Hex Shank Style				
For Use with Carbide Cutters				
Pilot Drill Bit	—	¾" to 2"	Greenlee	1XRN7
Pilot Drill Bit	⅝" dia. x 2¼" L	⅝" to 2½"	Greenlee	1XRN6
For Use with High Speed Steel Cutters				
Pilot Drill Bit	¼" dia. x 1½" L	1⅜" to 2½"	Greenlee	1XRR1
Quick Change Arbor Type				
For Use with Carbide Cutters				
Quick Change Arbor	⅝" dia. x 2¼" L	⅝" to 2½"	Greenlee	1XRN5
For Use with Quick Change Carbide Cutters				
Quick Change Arbor	¼" dia. x 2¾" L	—	Milwaukee	48Z567
Standard Arbor Type				
For Use with High Speed Steel Cutters				
Hole Cutter Arbor	¼" dia. x 1½" L	1⅜" to 2½"	Greenlee	1XRP8
Hole Saw Arbor	3⁄16" dia. x 1½" L	⅞" to 1⁷⁄₃₂"	Greenlee	1XRP7

40H677

5C634

4CN01

Punch Driver Sets and Knockout Punches

GREENLEE

No. of Pieces	Includes	Mfr. Model	Item No.
Hand Pump Hydraulic Driver			
1	Driver with Hand Pump, Draw Studs, Spacers and Plastic Case	7646	**4NV90**
Intelli-Punch Cordless Knockout Tool Kits			
5	(2) Draw Studs, Carrying Case	LS100X11A	**53JJ07**
16	(3) Spacers, ¾ in Draw Stud, ⅜ in Draw Stud, SlugBuster ½ in to 2 in Conduit Punches and Dies	LS100X11SB	**53JJ08**
18	(3) Spacers, ¾ in Draw Stud, 7⁄16 in Draw Stud, SlugSplitter ½ in to 2 in Conduit Punches and Dies	LS100X11SS	**53JJ12**
21	(3) Spacers, 1 ⅛ in Sleeve Adapter, ¾ in Draw Stud, ⅜ in Draw Stud, Carrying Case, SlugBuster ½ in to 4 in Conduit Punches and Dies	LS100X11SB4	**53JJ09**
23	(3) Spacers, 1 ⅛ in Sleeve Adapter, ¾ in Draw Stud, ⅜ in Draw Stud, Carrying Case, SlugSplitter ½ in to 4 in Conduit Punches and Dies	LS100X11SS4	**53JJ13**
Knockout Punch Set			
10	Punches and Dies for 2½ in, 3 in, 3½ in, 4 in Conduit, Mfg. No. 29452 Draw Stud, 1557SS Sleeve, Plastic Case	7308	**40H677**
—	1 ¼ in Conduit Punches & Dies, 1 in, Slug Buster ¾ in, Case, Draw Studs, Slug Buster ½ in	735BB	**3UME6**
Knockout Tool Kit			
7	Mfr. No. 1924AA Spacer, Mfr. No. 20963 ⅜ in x 4 51⁄64 in Drawstud, Mfr. No. 31872 ¾-16 in x 4 in Drawstud	LS50L11A	**15X779**
12	Mfr. No. 1924AA Spacer, Mfr. No. 20963 ⅜ in x 4 51⁄64 in Drawstud, Mfr. No. 31872 ¾-16 in x 4 in Drawstud, Slugbuster Punches and Dies for ½ in, 1 ¼ in, 1 in, ¾ in and 1 ½ in and 2 in Conduit	LS50L11B	**15X778**
Slug Buster Hydraulic Punch Driver Set			
8	Hydraulic Hand Pump Driver, ½, ¾, 1, 1¼, 1½, 2 in Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	7306SB	**5C633**
9	Quick Draw Hydraulic Driver, ½, ¾, 1, 1¼, 1½, 2 in Slug Buster Punches and Dies, Draw Studs and Plastic Carrying Case	7906SB	**5C634**
10	Quick Draw Hydraulic Driver, ½ in 1, 1¼, 1½, 2 in Slug Buster Punches and Dies, (2) Draw Studs, (1) Adapter, (1) Spacer and Plastic Carrying Case	7706SB	**1ED77**
11	Quick Draw Hydraulic Driver, ½, ¾, 1, 1¼, 1½, 2 in Slug Buster Punches and Dies, (2) Draw Studs, (1) Adapter, (1) Spacer and Plastic Carrying Case	7806SB	**4A726**
Slug Buster Knockout Punch Driver Set			
15	1 ½ in, 1 ¼ in, 1 in, 1 in Hex Head Ratchet Wrench, ½ in, 2 in Slug Buster Punches and Dies, ¾ in, Draw Studs, Plastic Carrying Case	7238SB	**5C632**
Slug Splitter Hydraulic Punch Driver Set			
9	(4) Punches and Dies Sizes ½ to 1¼ in, 2 in Draw Studs, Carrying Case	744	**1XGB7**
10	½, ¾, 1, 1¼, 1½, 2 in Slug Splitter Punches and Dies, Draw Studs, Hydraulic Ram, Hand Pump, and Metal Carrying Case	7506	**4CN01**
16	(5) Punches and Dies Sizes ½ in to 2 in, 2 in Draw Studs, Carrying Case	7307	**1XGB6**

Number of Punch/ Dies Sets	Material Application	Maximum Sheet Metal Capacity-Steel	Nominal Hole Size	Punch Shape	Slug Type	Includes	Mfr. Model	Item No.
Knockout Punch Driver Set								
6	Aluminum, Brass, Copper, Fiberglass, Mild Steel, Plastic, Stainless Steel	14 ga	1 ⅛ in, 1 9⁄32 in, 1 ⅜ in, 1 15⁄32 in, 1 11⁄16 in, 1 15⁄16 in	Round	Falls Free	1 ½ in Ball Bearing Punches and Dies, 1 ¼ in, 1 ⅛ in, 1 in, ¾ in, ⅞ in, Draw Studs, Metal Case	39860G	**4CN28**
Knockout Punch Set								
2	Aluminum, Brass, Copper, Fiberglass, Mild Steel, Plastic, Stainless Steel	10 ga	1 15⁄16 in, 2 13⁄32 in	Round	Falls Free	Knockouts, Drawstud, and Case	737BB	**42PT92**
4	Aluminum, Brass, Copper, Fiberglass, Mild Steel, Plastic, Stainless Steel	10 ga	⅞ in, 1 ⅛ in, 1 ⅜ in, 1 11⁄16 in	Round	Falls Free, Splitter	1 ¼ in Slug Buster Punches and Dies, 1 in, ½ in, ¾ in, Draw Studs, Plastic Carrying Case	7235BB	**4A742**
6	Aluminum, Brass, Copper, Fiberglass, Mild Steel, Plastic, Stainless Steel	10 ga	⅞ in, 1 ⅛ in, 1 ⅜ in, 1 11⁄16 in, 1 15⁄16 in, 2 13⁄32 in	Round	Falls Free, Splitter	(6) Dies, (6) Punches	7236	**55FE66**

Conduit and Pipe Size (in.)	Hole Size Inch	Hole Size Nominal	Mfr. Model	Item No.
Individual Knockout Punches				
Slug Buster Punches				
—	123/250 in	0.492 in	06727	**1ED80**
—	1 in	1.0 in	35178	**1ED81**
Slug Splitter Punches for Stainless Steel				
½	177/200 in	0.885 in	745H-1/2	**4CM97**
—	1 21/100 in	1.21 in	740H-1-7/32	**4CM98**
Large Stainless Steel Punches				
2 ½	2 457/500 in	2.914 in	745H-2-1/2	**40H678**
3	3 539/1000 in	3.539 in	745H-3	**40H679**
3 ½	4 11/1000 in	4.011 in	745H-3-1/2	**40H680**
4	4 68/125 in	4.544 in	745H-4	**40H681**

Description	Conduit and Pipe Size (in.)	Hole Size Nom.	Mfr. Model	Item No.
SPEED PUNCH Punches, Dies, & Accessories				
¾ in Punch	¾	1.115 in	7212SP-3/4P	**40H694**
¾ in Speed Punch Lock	—	0.750 in	SP-LOCK	**40H683**
¾ in Die	¾	1.115 in	7212SP-3/4D	**40H685**
1 in Punch	1	1.362 in	7212SP-1P	**40H695**
1 in Die	1	1.362 in	7212SP-1D	**40H686**
1¼ in Punch	1 ¼	1.701 in	7212SP-1-1/4P	**40H696**
1¼ in Die	1 ¼	1.701 in	7212SP-1-1/4D	**40H687**
1½ in Punch	1 ½	1.951 in	7212SP-1-1/2P	**40H688**
1½ in Die	1 ½	1.951 in	7212SP-1-1/2D	**40H697**
2 in Punch	2	2.416 in	7212SP-2P	**40H689**
2 in Die	2	2.416 in	7212SP-2D	**40H698**
Draw Stud	¾ x 4.77	—	7212SP11	**40H684**
Draw Stud	¾ x 5.63	—	7212SP12	**40H692**

31AD94

Knockout Punch Sets

Milwaukee

These sets include punches and dies in different sizes that fit a compatible knockout punch driver and create holes in sheet metal and other thin, flat materials.

Number of Punch/ Dies Sets	Material Application	Maximum Sheet Metal Capacity-Steel	Nominal Hole Size	Punch Shape	Slug Type	Mfr. Model	Item No.
9	Mild Steel, Stainless Steel	10 ga	4 in	Circle	Splitter	49-16-2695	**31AD94**
10	Mild Steel	10 ga	1 ¼ in	Circle	Splitter	49-16-2692	**31AD91**
14	Mild Steel, Stainless Steel	10 ga	2 in	Circle	Splitter	49-16-2693	**31AD92**

GREENLEE

Stud Punches

Metal Stud Punch
4A735

Metal Stud Punch—Automatically centers holes on standard studs. Self-stripping design eliminates punch hang-ups. 1 11/32" punched size dia.

BX Stud Punch—Manually punches a square hole and rolls the edges over for smooth installation.

Plumber Stud Punch—Punches a 2 5/8" dia. hole and removes slug. Use to install 2" waste water vent pipes.

Description	Studding Capacity	Mfr. Model	Item No.
Metal Stud Punch	20 ga Steel Studs	710	**4A735**
BX Stud Punch	20 ga Steel Studs	724	**1ED78**
Plumber Stud Punch	20 to 24 ga Steel Studs	713	**1ED79**
Bushings, For Use with 4A735, Pkg. of 100		712A100	**4A766**

GREENLEE

Hole Punches

4JA56

Punch holes in mild steel up to 10-ga. (3.0mm) for switch and/or instrument installation. Centering marks allow accurate hole alignment. For use with manual wrench or hydraulic driver. 4NV75 is for hydraulic drives only.

Hole Size (in.)	Mfr. Model	Item No.
Square Shaped Hole Punches		
½	60001	**4JA55**
¾	61007	**4JA56**
1	60016	**4JA57**
1.811 x 1.811	60019	**4NV75**
"D" Shaped Hole Punches		
0.500 x 0.469	60077	**4JA58**
0.625 x 0.594	61080	**4JA59**
0.750 x 0.703	61083	**4JA60**
Double "D" Shaped Hole Punch		
0.769 x 0.642	61086G	**4JA61**
Manual Hole Punch		
4	52078	**48ZW91**

IDEAL GREENLEE Milwaukee RIDGID

Cordless Crimpers and Cable Cutters

- 18V tools use lithium ion batteries
- Include batteries, charger, and case
- For replacement batteries, see Grainger.com

Ridgid RE 6 Crimp/Cut 3-in-1 tools can cut wire, crimp lugs, and punch boxes. 53JH94 features a 750 mcm cutting capacity for copper and aluminum connectors. 53JH95 features a 600 mcm cutting capacity for copper connectors and a 350 mcm cutting capacity for aluminum connectors.

3CCT6

53JH95

48ZW88

Voltage	Cutting Cap./Material	Brand	Mfr. Model	Item No.
Cutting Tools				
Drill Powered Cable Cutter				
—	Up To 750 MCM Hard Drawn Copper, 1000 MCM Aluminum	IDEAL	35-078	**3CCT6**
Gator Cordless Bolt Cutter				
18 V	½ in dia Common Bolt, ½ in dia Threaded Rod, 7/16 in dia Grade 5 Bolt	Greenlee	ETS12LX11	**53JH97**
Gator Cordless Cable Cutter				
18 V	1/16 in Cable Tray (Mild Steel, Zinc Plated), 1/16 in Cable Tray (Stainless Steel), 1/16 in Steel Bolts (Grade 2), 1/16 in Steel Bolts (Grade 8), 3/16 in Steel Bolts (Grade 8), 5/16 in Cable Tray (Mild Steel, Zinc Plated), 5/16 in Cable Tray (Stainless Steel), 5/16 in Steel Bolts (Grade 2)	Greenlee	ETS8LX11	**53JH96**
18 V	2 in (60mm) Copper/Aluminum Wire	Greenlee	ESG50LX11	**53JJ03**
18 V	4 in Communications Cable	Greenlee	ESC85LX11	**53JJ04**
18 V	500 MCM Aluminum, 500 MCM Copper	Greenlee	ES32LX11	**53JH98**
18 V	500 MCM Aluminum, 500 MCM Copper	Greenlee	ES32FLX11	**53JH99**
18 V	ACSR, Guy Strand, Steel	Greenlee	ES20LX11	**53JJ01**
Gator Cordless Wire Cutter				
18 V	2 3/16 in dia Copper and Aluminum, ACSR, Guy Strand, Steel	Greenlee	ESG55LX11	**53JJ06**
18 V	ACSR, Guy Strand, Steel	Greenlee	ESG45LX11	**53JJ05**
18 V	ACSR, Guy Strand, Steel	Greenlee	ESG25LX11	**53JJ02**
Hydraulic Cable Cutter				
—	4.13 in (105mm)/Copper, Aluminum, Communications, Lead Armored, Soft Steel Amored Cable	Greenlee	SDK105	**15X818**
Micro Cutter Cordless Bolt Cutter				
10.8 V	½ in dia Common Bolt, ½ in dia Threaded Rod, 3/8 in dia (½ in dia In Two Cycles), 3/8 in dia Grade 40 Rebar, 5/16 in dia Grade 8 Bolt, 7/16 in dia Grade 5 Bolt, BL-9 Boa-Lock, One-Time Disposable Lock 4-AWG Alumoweld	Greenlee	EBS12ML110	**53JJ17**
Micro Cutter Cordless Micro-Cable Cutter				
10.8 V	240 Mm2 Aluminum 750 kcmil (MCM) (380 mm2), 300 MCM Cu Cable, 400 Kcmil (MCM)	Greenlee	ES32ML110	**53JJ15**
10.8 V	500 MCM Fine Stranded Copper Cable	Greenlee	ES32FML110	**53JJ16**

Head Style	Handle Type	Max. Crimping Force	Includes	Brand	Mfr. Model	Item No.
Cordless Crimping Tool						
18 V						
C-Head	Pistol	12 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK1240LX11	**53JH87**
	Pistol	13 ton	(1) Battery Charger - 120V, (2) Batteries	Greenlee	EK1230LX11	**53JH88**
Latching	Pistol	6 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	E6CCXLX11	**53JH95**
	Pistol	8 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK6FTLX11	**53JH92**
	Pistol	12 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK12IDLX11	**53JH93**
	Pistol	12 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	E12CCXLX11	**53JH94**
	Pistol	15 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK1550FLX11	**53JH89**
	Straight	4 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK410LX11	**53JH84**
	Straight	6 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK6IDLX11	**53JH90**
Open	Pistol	7 ton	(1) Battery, (1) Battery Charger - 120V	Greenlee	EK6ATLX11	**53JH91**
Scissor	Straight	6 ton	—	Milwaukee	2678-20	**786VM3**

Head Style	Handle Type	Max. Crimping Force	Includes	Brand	Mfr. Model	Item No.
Cordless Crimping Tool Kit						
9.6 V						
Scissor	Straight	6 ton	(1) Battery Charger - 120V, (1) Tool Storage - Bucket Pouch, (2) Batteries	Greenlee	EK425LXDBG11	**53JH83**
18 V						
Latching	Straight	6 ton	(1) Battery, (1) Battery Charger - 120V, (1) Die Adapter - Style W Dies (04292)	Greenlee	EK622LX11	**53JH86**
	Straight	6 ton	(1) Battery Charger, (1) Head - Crimp Head (4P-6 4PIN), (1) Head - Knockout Punch Head (47763), (1) Head - Wire Cutter Scissor Head (47918), (1) Step Drill Bit, (1) Thread Adapter, (1) Tool Storage - Carrying Case, (2) Batteries, (2) Draw Bolts, (2) Spacers	Ridgid	52093	**48ZW88**
	Straight	6 ton	(1) Battery Charger, (1) Head - Crimp Head (4P-6 4PIN), (1) Head - Wire Cutter Scissor Head (47918), (1) Tool Storage - Carrying Case, (2) Batteries	Ridgid	52098	**48ZW89**
Scissor	Straight	6 ton	(1) Battery Charger - 120V, (2) Batteries	Greenlee	EK628LX11	**53JH85**

Description	For Use With	Brand	Mfr. Model	Item No.
Crimping Die Sets				
Upper and Lower Crimping Die Set	Mfr. No. E12CCX11	Greenlee	KD12CU	**1XGB2**
Includes Dies for #6-750 kcmil Aluminum Connectors		Greenlee	KD12AL	**1XGB3**
Includes Dies for #8-600 kcmil Copper Connectors & Carrying Case	Mfr. No. ECCX11	Greenlee	K22S1GL	**6XH29**
Includes 11 Dies for #8-300 kcmil Copper Connectors	Mfr. No. EK410L	Greenlee	KC4CU	**1ED67**
Cordless Crimping Tool Kit	—	Ridgid	52088	**48ZW90**

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Wire Cutter Scissor Head	Mfr. No. RE 6 ELCTRICAL TOOL 3-PIECE KIT, RE 6 ELCTRICAL TOOL 2-PIECE KIT, RE 6 ELECTRICAL TOOL	Ridgid	SC-60C	**36HU91**
Remote-Powered Crimper	External Hydraulic Pump	Greenlee	RK1240	**15X819**
Gator Hydraulic Pump with Intelli-Crimp	—	Greenlee	EHP700L11	**21TX97**
Gator Diagnostic Tool	Mfr. No. EHP700L: Electric Hydraulic Pump	Greenlee	Gator-EKG	**21TX99**

Find our full selection of Insulated Tools at Grainger.com®.

4-Pc. Plier/Cutter/ Stripper Set 1YXJ5

10-pc. Screwdriver/ Plier Set 1YXJ7

10-pc. Socket Set 26X320

11-Pc. Insulated Tool Set 2TDP7

Insulated Tool Sets

Note: For a complete list of components, go to Grainger.com.

No. of Pieces	Description	Includes	Mfr. Model	Item No.
Westward				
4	Insulated Plier/Cutter/Stripper Set	Pliers: 6 in Wire Stripper, 8 in Combination Pliers, 8 in Diagonal Pliers, 8 in Long Nose Pliers.	—	**1YXJ5**
10	Insulated Screwdriver/Plier Set	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	—	**1YXJ7**
Klein Tools				
8	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter Wire Stripper/Cutter & Cable Cutter, Phillips Screwdrivers, Pliers, Slotted Screwdrivers, Wire Stripper/Cutter and Zippered Polyester Case with Custom-Fitted Tool Pockets 15¼ in W x 11 in D x 2¼ in H	33526	**1N046**
8	Premium Klein-Kurve Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter, Lineman's Skinning Knife, and Bright Yellow Carrying Case	33529	**1YRY8**
13	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wire Stripper/Cutter, Cable Cutter, Lineman's Skinning Knife, Crimping/Cutting Tool, and No. 33537 Extra-Sturdy Bright Yellow Case	33525	**3KGV3**
22	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Cable Cutter, Klein-Kurve Wire Stripper, & Zippered Polyester Case with Custom Fitted Tool Pockets 15¼ in W x 11 in D x 2¼ in H	33527	**1N047**
Knipex				
5	High Leverage Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 21 US	**2DZD8**
7	Commercial Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 26 US	**2DZD9**
7	Basic Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	9K 98 98 27 US	**2DZC8**
8	Not Tether Capable, Insulated	Chrome Finish	98 99 13 S4	**2DZC6**
8	Not Tether Capable	Plastic Material, Chrome Finish	98 99 13 S5	**2DZC7**
10	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Cable Shears 6½ in	9K 98 98 31 US	**2DZE1**
Wiha				
3	Adjustable Wrench Set	Wrenches: 8 in, 10 in, 12 in Overall Length, 1 in, 1 ½ in Jaw Capacity	76290	**26X328**
7	Socket Bit Set	Socket Size 3/16 in, 7/32 in, ¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, Tip Size ½ in, ¼ in, 3/16 in, ⅜ in, 5/16 in, 7/16 in, 7/32 in	31890	**26X319**
7	Not Tether Capable, Insulated	Chrome Finish	21290	**26X332**
8	No, Not Tether Capable, Yes	Natural Finish	20192	**26X340**
10	Professional Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Black Cordura Case	32891	**5LX08**
10	Socket Wrench Set	Chrome Finish	31493	**26X320**
10	Socket Wrench Set, Metric	Chrome Finish	31590	**26X321**
11	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, & Roll Up Pouch	32986	**26X233**
13	Socket Wrench Set	Chrome Finish	31391	**26X316**
14	Screwdriver/Plier Set	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Zippered Carry Case	32192	**1YUL6**
15	Screwdriver/Nutdriver Set	Slotted Screwdrivers, Phillips Screwdrivers, Pliers & Zippered Bag	32190	**1YUL5**
16	Socket Set	Chrome Finish	31491	**26X322**
66	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches & Rugged 23 in Tool Box	32876	**6UUG7**
80	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches, Sockets & Watertight Rolling Tool Case	32800	**26X224**
80	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, Wrenches, Sockets & Molded Tool Box	32877	**26X240**
Greenlee				
7	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers, Pliers, & Nylon Tool Roll	0159-01-INS	**11L611**
Jonard Tools				
11	Insulated Tool Kit	Slotted Screwdrivers, Phillips Screwdrivers & Pliers	TK-110INS	**2TDP7**

31CE75

Insulated Tool Kits

Protect against electrical shock up to 1000V.
Wiha meets IEC 60900:2004 standards.

Description	No. of Pieces	Tool Families Included	Tool Storage Type Included	Brand	Mfr. Model	Item No.
Insulated Electrician's Tool Kit	9	Electrical and Telecomm Tools, Pliers, Screwdrivers	Roll	Jameson/Itl	00003	**31CE76**
Insulated General Purpose Tool Kit	9	Pliers, Screwdrivers, Wrenches	Roll	Jameson/Itl	00006	**31CE75**
Insulated Tool Kit	5	Pliers, Screwdrivers	None	Knipex	9K 98 98 22 US	**38UU08**
	7	Pliers, Screwdrivers	Roll	Knipex	9K 98 98 25 US	**38UU09**
	10	Electrical and Telecomm Tools, Pliers, Screwdrivers	Case	Knipex	9K 98 98 30 US	**38UU10**
	24	Cutting Tools, Pliers, Screwdrivers, Sockets and Accessories, (4) ⅜ in Dr 6 pt. Sockets: ¼ in, 9/32 in, 5/16 in, 11/32 in, (7) ⅜ in Dr 12 pt. Sockets: ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in, 11/16 in, ¾ in	Case	Wiha	31495	**8GYN8**
	24	Cutting Tools, Pliers, Screwdrivers, Sockets and Accessories, (11) ⅜ in Dr Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19mm	Case	Wiha	31592	**8GYN9**

Insulated Tools

Item	Type	Overall Length	Jaw Length	Jaw Width	Brand	Item No.
Adjustable Wrench	—	8"	—	—	Wiha	**26X329**
	—	8"	—	—	Jameson/Itl	**19MV21**
	—	10"	—	—	Wiha	**26X325**
	—	10"	—	—	Irega	**5MK50**
	—	10"	—	—	Westward	**5UFY6**
	—	10"	—	—	Knipex	**10G263**
	—	10"	—	—	Facom	**32H629**
	—	12"	—	—	Wiha	**26X326**
	—	12"	—	—	Jameson/Itl	**19MV22**
	—	15"	—	—	Jameson/Itl	**31CE69**
	Nonsparking	4"	—	—	Ampco	**24Y885**
	Nonsparking	10"	—	—	Ampco	**24Y886**
Bent Long Nose Plier	—	8"	2 ⅞ in	¾ in	Knipex	**38GU36**
	—	8"	2 ⅞ in	¾ in	Knipex	**10N864**
Crimper	—	9¾"	—	—	Klein Tools	**1N041**
Diagonal Cutting Plier	—	4½"	⅜ in	⅜ in	Erem	**31AD35**
	—	4½"	½ in	½ in	Erem	**31AD34**
	—	5¼"	½ in	½ in	Westward	**3WY52**
	—	6"	½ in	¼ in	Erem	**5EPT3**
	—	6¼"	¾ in	⅞ in	Knipex	**10T985**
	—	7¼"	1 in	⅞ in	Knipex	**10T986**
	—	8¼"	⅞ in	1 ¼ in	Klein Tools	**58UR85**
	Cutting	5⅛"	⅜ in	⅝ in	Erem	**24AC74**
	Heavy Duty	7¾"	1 in	1 in	Klein Tools	**1N091**
Dieless Crimper	Terminal	9¾"	—	—	Greenlee	**11L628**
Flat Nose Plier	—	7¼"	1 ⅜ in	½ in	Knipex	**21XK05**
Hammer Head Adjustable Wrench	—	12"	—	—	Jameson/Itl	**31CE70**
High Leverage Cable Cutter	High Leverage	9¾"	—	—	Klein Tools	**1N067**
High Leverage Diagonal Cutting Plier	—	8"	⅞ in	¼ in	Wiha	**53KG93**
	High Leverage	8"	⅞ in	1 ⅛ in	Knipex	**2DZD7**
	High Leverage	8¼"	⅞ in	1 ¼ in	Klein Tools	**1N074**
	High Leverage	8¼"	⅞ in	1 ¼ in	Klein Tools	**1N092**
	High Leverage	10"	⅞ in	1 ⅛ in	Knipex	**2DZD2**
	High Leverage, Angled Head	8¼"	⅞ in	1 ¼ in	Klein Tools	**1N075**
	High Leverage, Angled Head	8¼"	⅞ in	1 ¼ in	Klein Tools	**1N093**
	Safety High Leverage	8"	⅞ in	1 ⅛ in	Westward	**1YXJ4**
Insulated Cable Cutter	—	6½"	—	—	Knipex	**2DZD5**
	—	20"	—	—	Knipex	**2DZA2**
Insulated End Cutting Nippers	—	9¾"	—	1 in	Wiha	**26X255**
	Dynamic Joint	6¼"	1 ¼ in	1 ½ in	Wiha	**26X262**
Insulated Ratcheting Cable Cutter	—	11"	—	—	Knipex	**21XJ96**
Linemans Plier	—	6¼"	1 ⅜ in	1 ½ in	Knipex	**10N828**
	—	8"	1 ⅝ in	1 ¼ in	Westward	**3WY50**
	—	8"	1 ⅝ in	1 ½ in	Knipex	**10N830**
	—	9"	1 ⅝ in	1 ¾ in	Milwaukee	**36XE13**
	—	9½"	1 ⅝ in	1 ⅜ in	Klein Tools	**58UR92**
	—	9½"	1 ¾ in	1 ⅜ in	Wiha	**53KG92**
	—	9½"	1 ⅝ in	1 ⅜ in	Klein Tools	**58UR87**
	High Leverage	8"	1 ⅞ in	1 ⅛ in	Wiha	**26X256**
	High Leverage	8"	1 ½ in	1 ¼ in	Knipex	**10N818**
	High Leverage	9"	1 ½ in	1 in	Knipex	**2DZD6**
	High Leverage	9"	1 ¾ in	1 ½ in	Knipex	**10N819**
	High Leverage	9½"	1 ½ in	1 ¼ in	Knipex	**2DZC9**
	High Leverage	9¾"	1 ⅝ in	1 ⅜ in	Klein Tools	**1N077**
	High Leverage	9¾"	1 ⅝ in	1 ⅜ in	Klein Tools	**1N090**
	High Leverage With Crimping Die	9¾"	1 ⅝ in	1 ⅜ in	Klein Tools	**1N089**
	w/Crimping Die	8½"	1 ⅞ in	1 ⅛ in	Westward	**5UFV4**
	With Crimping Die	8¾"	1 ¾ in	1 in	Klein Tools	**1N043**
Long Nose Plier	—	6"	2 in	¾ in	Westward	**3WY56**
	—	8"	2 ½ in	½ in	Milwaukee	**36XE01**
	—	8"	2 ⅞ in	¾ in	Knipex	**38GU35**
	—	8"	3 in	¾ in	Knipex	**2DZD1**
	—	8¾"	2 ⅜ in	1 in	Klein Tools	**58UR90**
	Dynamic Joint	8"	2 ¾ in	¾ in	Wiha	**26X260**
	Safety High Leverage	8⅛"	2 ⅞ in	¾ in	Westward	**1YXJ3**
Needle Nose Plier	—	6¼"	2 in	⅜ in	Knipex	**10N851**
	—	6⅞"	2 in	¾ in	Klein Tools	**1N084**
	—	7⅜"	2 ½ in	¾ in	Klein Tools	**1N085**
	—	8⅞"	2 ⅜ in	1 in	Klein Tools	**1N086**
	Dynamic Joint	6⅜"	1 ⅞ in	¾ in	Wiha	**26X261**
	Heavy Duty With Skinning Hole	8⅞"	2 ⅜ in	1 in	Klein Tools	**1N087**
Ratchet Cable Cutter	—	12"	1 ¼ in	—	Jonard Tools	**40J752**
Round Nose Plier	—	6¼"	1 ⅞ in	¾ in	Westward	**5UFV9**
Skinning Knife	385 VDE	7"	—	—	Westward	**5UFW0**
Water Pump Plier	10" Pump Pliers	10¼"	1 in	½ in	Klein Tools	**1N095**
	Safety High Leverage	10"	1 ¼ in	⅜ in	Westward	**1YXJ2**
Wire Stripper	Electrical Wire Strippers	6¼"	—	—	Wiha	**26X265**
	Electrical Wire Strippers	6½"	—	—	Westward	**3WY55**
	Electrical Wire Strippers	7"	—	—	Klein Tools	**1YBR4**
	Electrical Wire Strippers	8"	—	—	Klein Tools	**1YBR1**

Diagonal Cutting Plier 31AD35

Diagonal Cutting 3WY52

Linemans Pliers 1N090

Linemans Pliers 5UFV4

Long Nose 1YXJ3

Skinning Knife 5UFW0

Pump 1YXJ2

Wire Stripper 3WY55

5-pc. Set
1YXN8

Insulated Nut Drivers

Comfortable cushion grips are coded for size. Sets are rated 1000V.

Klein Tools—Tip-Ident quickly identifies nut driver size. Cordura nylon case included with sets. 2-layer insulation.

Westward—Insulation molded around blade and handle. Handles feature tri-lobular, high-torque grips. Full-length insulated shafts.

Wiha—Soft Finish handles. Molded-on insulation meets applicable EN/IEC, ASTM, NFPA and VDE standards.

No. of Pieces	Includes	Shank Length (in.)	Overall Length (in.)	Item No.
Hollow Insulated Nut Driver Sets				
Klein				
9	3/16, ¼, 5/16, 11/32, ⅜, 7/16, ½, 9/16, ⅝ in	6	9¾ to 11⅜	**1YRY7**
Solid Insulated Nut Driver Sets				
Westward				
5	6, 7, 8, 9, 10mm	5	9½	**1YXN8**
5	¼, 5/16 , ⅜, 7/16, ½ in	5	9½	**1YXN9**
Wiha				
5	7/32, ¼, 5/16, ⅜, ½ in	5	9.3 to 9.6	**5LW91**
5	6, 7, 8, 9, 10mm	5	9.3 to 9.6	**5LW90**
7	5, 5.5, 6, 7, 8, 10, 13mm	5	9.3 to 9.6	**26X275**
9	3/16, ¼, 5/16, 11/32, ⅜, 7/16, ½, 9/16, ⅝ in	5	9.3 to 9.6	**26X274**
11	5/32, 3/16, 7/32, ¼, 5/16, 11/32, ⅜, 7/16, ½, 9/16, ⅝ in	5	9.3 to 9.6	**26X273**

Tip Size	Overall Length	Bolt Clearance	Shank Length	Grip Style	Item No.
Hollow Round Shank Nut Drivers					
Klein tools					
11/32"	9¾"	¼ in	6 in	Ergonomic	**1YRX4**
½"	11¼"	11/32 in	6 in	Ergonomic	**1YRX5**
¼"	9¾"	3/16 in	6 in	Ergonomic	**1YRX6**
⅜"	10¾"	¼ in	6 in	Ergonomic	**1YRX8**
3/16"	9¾"	3/16 in	6 in	Ergonomic	**1YRX7**
⅝"	11¼"	7/16 in	6 in	Ergonomic	**1YRY1**
5/16"	9¾"	7/32 in	6 in	Ergonomic	**1YRX9**
7/16"	10¾"	9/32 in	6 in	Ergonomic	**1YRY2**
9/16"	11¼"	7/16 in	6 in	Ergonomic	**1YRY3**
Westward					
11/32"	9¼"	5 in	5 in	Ergonomic	**5UFY0**
½"	9¼"	5 in	5 in	Ergonomic	**5UFY3**
¼"	9¼"	5 in	5 in	Ergonomic	**5UFX8**
⅜"	9¼"	5 in	5 in	Ergonomic	**5UFY1**
3/16"	9¼"	5 in	5 in	Ergonomic	**5UFX7**
7/16"	9¼"	5 in	5 in	Ergonomic	**5UFY2**
Solid Round Shank Nut Drivers					
Westward					
½"	9½"	1 in	5 in	Ergonomic	**1YXL5**
¼"	9½"	1 in	5 in	Ergonomic	**1YXK9**
⅜"	9½"	1 in	5 in	Ergonomic	**1YXL3**
5/16"	9½"	1 in	5 in	Ergonomic	**1YXL1**
7/16"	9½"	1 in	5 in	Ergonomic	**1YXL4**
Wiha tools					
11/32"	9½"	5/16 in	5 in	Insulated	**1YUG9**
½"	9½"	5/16 in	5 in	Insulated	**1YUH3**
¼"	9½"	5/16 in	5 in	Insulated	**1YUG7**
⅜"	9½"	5/16 in	5 in	Insulated	**1YUH1**
3/16"	9¼"	5/16 in	5 in	Insulated	**1YUG5**
⅝"	9½"	5/16 in	5 in	Insulated	**1YUH5**
5/16"	9½"	4 29/32 in	5 in	Insulated	**1YUG8**
7/16"	9½"	5/16 in	5 in	Insulated	**1YUH2**
7/32"	9¼"	5/16 in	5 in	Insulated	**1YUG6**
9/16"	9½"	5/16 in	5 in	Insulated	**1YUH4**

Straight Tweezer
26X271

Bent Tweezer
2DYZ7

Insulated Tweezers

Description	L	Brand	Mfr. Model	Item No.
Straight, Serrated, Blunt Tip	5 in	Wiha Tools	75210	**26X268**
	6 in	Wiha Tools	75215	**26X269**
	8 in	Wiha Tools	75220	**26X270**
Straight, Serrated, Fine Tip	5 in	Wiha Tools	75205	**26X271**
Straight, Serrated, Wide Tip	5 ¾ in	Knipex	92 67 63	**2DYZ8**
Bent, Serrated, Narrow Tip	6 in	Knipex	92 37 64	**2DYZ7**
Angled, Serrated, Blunt Tip	8 in	Wiha Tools	75304	**26X266**
Angled, Serrated, Fine Tip	6 in	Wiha Tools	75302	**26X267**

Ergonomic, 6-pc. Set
1YUL8

L-Shaped, 12-pc. Set
26X330

Insulated Hex Key Sets

Proportioned high-torque handles.

No. of Pieces	Sizes Included	Std.	Mfr. Model	Item No.
6	¼ in, 3/16 in, ⅜ in, 5/16 in, 5/32 in, 7/32 in	ASTM F-1505-10, CSA, DIN 7437, EN/IEC 60900, NFPA70E, OSHA 29 CFR1910, VDE 0682/Part 201	33490	**1YUL8**
10	1.5mm, 10mm, 12mm, 2.5mm, 2mm, 3mm, 4mm, 5mm, 6mm, 8mm	ASTM, CSA, EN/IEC	13693	**26X331**
12	1/16 in, ½ in, ¼ in, ⅛ in, 3/16 in, 3/32 in, ⅜ in, 5/16 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in	ASTM, CSA, EN/IEC	13694	**26X330**

26X276

Insulated Torque Wrench Sets

Certified to EN ISO 6798, BS EN 26789, and ASME B107.14M.

No. of Pieces	Description	Overall Length	Item No.
8	Phillips Blades: #1, #2, Slim Line Blade Holder, Slotted Blades: 3 mm, 4 mm, 5.5 mm, Torque Adjustment Tool	6 in	**26X280**
16	Phillips Blades: #1, #2, Slim Line Blade Holder, Slotted Blades: 4 mm, 5.5 mm, 6.5 mm, Square Blades: #1, #2, Terminal Xeno Blades: #1, #2, Torque Adjustment Tool, Torx Blades: T8, T10, T15, T20	6 ¼ in	**26X276**

Ergonomic Cushion-Grip Insulated Screwdrivers

Intended for protection from accidental tool contact with voltage up to 1000V.

Westward—Trilobular (3-sided) grips provide high torque and have full-length insulation on the shanks.

Wiha SoftFinish —Molded-on insulation. Meets applicable EN/IEC, ASTM, NFPA, and VDE Standards.

Klein Tools—Sure-grip handles have 2 layers of insulation.

Phillips Tip
5UFW8

Slotted Tip
53KG36

Square Tip
49C222

Precision Set
10K134

Tip Size	Shank Length	Brand	Item No.
Phillips Tip			
#0	2 3/8 in	Wiha	**53KG45**
#0	2 3/8 in	Wiha	**26X289**
#00	40 mm	Wiha	**53KG44**
#1	3 in	Wiha	**1YUG2**
#1	3 3/16 in	Westward	**5UFW8**
#1	3 3/16 in	Westward	**1YXK5**
#1	4 in	Proto	**425Y23**
#1	4 in	Klein Tools	**49C230**
#1	60 mm	Wiha	**53KG46**
#1	80 mm	Wiha	**53KF35**
#1	80 mm	Wiha	**26X291**
#2	4 in	Wiha	**1YUG3**
#2	4 in	Westward	**5UFW9**
#2	4 in	Westward	**1YXK6**
#2	4 in	Klein Tools	**1N056**
#2	4 in	Klein Tools	**60KN88**
#2	5 in	Proto	**425Y24**
#2	7 in	Klein Tools	**49C231**
#2	100 mm	Wiha	**53KF36**
#2	100 mm	Wiha	**53KF32**
#2	100 mm	Wiha	**26X292**
#3	6 in	Wiha	**1YUG4**
#3	6 in	Westward	**5UFX0**
#3	6 in	Westward	**1YXK7**
#3	7 in	Klein Tools	**49C232**
#4	8 in	Wiha	**26X290**
Slotted Tip			
1/32 in	1 1/2 in	Witte	**10K136**
3/64 in	1 1/2 in	Witte	**10K137**
3/64 in	1 3/4 in	Knipex	**10K154**
1/16 in	1 1/2 in	Witte	**10K138**
1/16 in	1 3/4 in	Knipex	**10K150**
1/16 in	40 mm	Wiha	**53KG33**
5/64 in	1 3/4 in	Knipex	**10K151**
5/64 in	2 1/4 in	Witte	**10K139**
5/64 in	3 in	Wiha	**26X299**
5/64 in	40 mm	Wiha	**53KG34**
3/32 in	2 1/4 in	Witte	**10K140**
3/32 in	3 in	Wiha	**26X301**
3/32 in	3 in	Westward	**1YXJ8**
3/32 in	3 1/8 in	Wera	**6ANJ9**
3/32 in	3 1/8 in	Wera	**6AAC6**
3/32 in	3 in	Knipex	**10K152**
3/32 in	3 in	Klein Tools	**49C224**
7/64 in	3 in	Witte	**10K141**
7/64 in	60 mm	Wiha	**53KG35**
1/8 in	3 1/8 in	Wera	**3EJW4**
1/8 in	3 in	Knipex	**10K153**
1/8 in	4 in	Wiha	**26X302**
1/8 in	4 in	Westward	**1YXJ9**
1/8 in	4 in	Wera	**6ANK0**
1/8 in	4 in	Wera	**6AAC7**
1/8 in	4 in	Klein Tools	**49C225**
1/8 in	60 mm	Wiha	**53KG36**
9/64 in	4 in	Wiha	**1YUF8**
9/64 in	4 in	Wiha	**26X293**
9/64 in	4 in	Wera	**6ANK1**
9/64 in	4 in	Wera	**6AAC8**
9/64 in	4 in	Wera	**3EJW5**
9/64 in	4 in	Proto	**425Y22**
9/64 in	60 mm	Wiha	**53KG37**
9/64 in	75 mm	Wiha	**450G78**
5/32 in	4 in	Wiha	**26X303**
5/32 in	4 in	Westward	**1YXK1**
5/32 in	4 in	Wera	**6ANK2**
5/32 in	4 in	Wera	**6AAC9**
5/32 in	4 in	Wera	**3EJW6**
5/32 in	4 in	Proto	**425Y20**
5/32 in	6 in	Wera	**6AAD0**
5/32 in	100 mm	Wiha	**26X294**
3/16 in	4 in	Wiha	**26X304**
3/16 in	4 in	Klein Tools	**1N049**
3/16 in	5 in	Wiha	**1YUF9**
3/16 in	6 in	Wiha	**26X305**
3/16"	6 in	Klein Tools	**60KN86**
3/16 in	7 in	Wiha	**26X306**
3/16 in	7 in	Klein Tools	**49C226**
3/16 in	125 mm	Wiha	**26X295**
7/32 in	5 in	Wiha	**26X309**
7/32 in	5 in	Westward	**1YXK2**
7/32 in	5 in	Wera	**6ANK3**
7/32 in	5 in	Wera	**6AAD1**
7/32 in	5 in	Wera	**3EJW7**
7/32 in	5 in	Proto	**425Y21**
7/32 in	7 in	Wiha	**26X308**
7/32 in	125 mm	Wiha	**26X296**
15/64 in	6 in	Wiha	**26X310**
1/4 in	4 in	Klein Tools	**1N053**
1/4"	4 in	Klein Tools	**60KN87**
1/4 in	6 in	Wiha	**1YUG1**
1/4 in	6 in	Westward	**1YXK3**
1/4 in	6 in	Wera	**6ANK4**
1/4 in	6 in	Wera	**6AAD2**
1/4 in	7 in	Klein Tools	**49C227**
1/4 in	150 mm	Wiha	**26X297**
5/16 in	7 in	Wiha	**26X311**
5/16 in	7 in	Westward	**5UFW6**
5/16 in	7 in	Westward	**1YXK4**
5/16 in	7 in	Wera	**6ANK5**
5/16 in	7 in	Wera	**6AAD3**
5/16 in	7 in	Klein Tools	**49C228**
5/16 in	8 in	Wera	**6ANK6**
3/8 in	8 in	Wiha	**26X298**
3/8 in	8 in	Westward	**5UFW7**
3/8 in	8 in	Wera	**6ANK7**
3/8 in	8 in	Klein Tools	**49C229**
Square Tip			
#1	3 15/16 in	Wiha	**53KH10**
#1	4 in	Wiha	**53KH08**
#1	4 in	Klein Tools	**49C222**
#1	6 in	Westward	**5UFX1**
#2	4 in	Klein Tools	**49C223**
#2	6 in	Wiha	**53KH09**
#2	6 in	Westward	**5UFX2**
#2	7 in	Klein Tools	**48UX49**
#2	125 mm	Wiha	**53KH11**
#3	6 in	Westward	**5UFX3**
Square Recess Tip			
#2	6 in	Klein Tools	**60KN89**
Xeno Tip			
#1	80 mm	Wiha	**53KF31**

No. of Pieces	Includes	Brand	Item No.
Insulated Precision Screwdriver Sets			
5	1/16 in, 3/32 in, 9/64 in	Wiha	**53KG38**
7	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm	Wiha	**53KG47**
7	1/16 in, 1/8 in, 5/64 in, 7/64 in	Witte	**10K135**
7	Slotted 1/16 in x 1 5/8 in , 5/64 in x 2 3/8 in , 7/64 in x 2 3/8 in , 1/8 in x 3 in , Phillips #00 x 1 5/8 in , #0 x 2 3/8 in , Plastic Storage Case	Knipex	**10K134**
8	1.5 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm	Wiha	**53KG40**
10	T10, T15, T20, T25, T27, T30, T6, T7, T8, T9	Wiha	**53KG77**
30	1/16 in, 1/4 in, 11/64 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 9/64 in	Wiha	**53KG48**
Insulated Screwdriver Sets			
2	1/4 in	Klein Tools	**1AHE5**
2	4.5 mm, Slimline Blades	Wiha	**26X283**
2	#1, #2	Wiha	**53KH21**
2	15/64 in	Wiha	**53KH18**
2	5.5 mm	Wiha	**53KG43**
4	3.5 mm, 4.5 mm	Wiha	**5LW88**
4	1/4 in, 5/32 in	Wera	**6AAC0**
5	3 mm, 4.5 mm, 6.5 mm	Wiha	**38VY79**
6	3 mm, 4.5 mm, 6.5 mm	Wiha	**5LW89**
6	4.5 mm, 6.5 mm, Slimline Blades	Wiha	**26X286**
6	1/4 in, 3/16 in	Wiha	**26X287**
6	T10, T15, T20, T25, T8, T9	Wiha	**5LW92**
6	2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm	Wiha	**26X278**
6	1/32 in, 3/64 in	Wera	**6ANJ8**
6	3/32 in, 5/32 in, 7/32 in, 9/64 in	Wera	**6ANJ7**
6	#1, #2, #3	Wera	**6AAC1**
6	T10, T15, T20, T25, T27, T30	Wiha	**450G70**
6	1/8 in, 7/32 in	Wiha	**26X288**
7	1/4 in, 5/32 in, 7/32 in	Wiha	**53KG39**
8	3.5 mm, 4 mm, 4.5 mm, 5.5 mm, Slimline Blades	Wiha	**26X285**
9	1/4 in, 1/8 in, 3/16 in, 3/8 in, 5/16 in, w/Case	Klein Tools	**1N048**
9	#1, #2, #3, 1/4 in, 1/8 in, 3/32 in, 5/16 in, 5/32 in, 7/32 in,w/Zipper Bag	Westward	**1YXN6**
9	1/8 in, 3/32 in, 5/32 in, 7/32 in, 1/4 in, 5/16 in, #1, #2, #3	Westward	**7CZ69**
10	1/8 in, 3/32 in, 5/32 in, 7/32 in	Wera	**6AAA8**
10	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 6.5 mm	Wiha	**53KG41**
11	3.5 mm, 4 mm, 4.5 mm, 5.5 mm, 6.5 mm, Slimline Blades	Wiha	**26X281**
12	#0, #1, #2, #3, 0.4 to 1.2 mm	Wera	**45J369**
13	1/8 in, 13/32 in, 3/32 in, 5/32 in, 7/32 in, 9/64 in	Wera	**6AAA9**
13	10 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 6.5 mm, 8 mm	Wiha	**53KG42**
19	10 mm, 2.5 mm, 3 mm, 3.5 mm, 4.5 mm, 5.5 mm, 6 mm, 6.5 mm, 8 mm, Voltage Detector in Tray	Wiha	**26X279**
Insulated Tether-Ready Screwdriver Sets			
3	#1, #2, 1/4 in	Milwaukee	**55ZY77**
3	#0, #1, #2, #4, 1/4 in, 1/8 in, 3/16 in, 3/18 in, 5/16 in	Milwaukee	**23TE74**
4	#1, #2, 1/4 in, 3/8 in	Milwaukee	**55ZY78**
4	1/4 in, 3/8 in	Milwaukee	**23TE75**
10	1/4 in, 3/8 in, 5/16 in	Milwaukee	**23TE76**

Insulated Multibit Screwdriver Sets

No. of Pieces	Includes	Brand	Item No.
1	Handle Only	Wera	**3EKJ4**
7	Phillips: #1 + #2, Robertson Square Recess: #1, Slotted: 0.6 mm + 1 mm	Wera	**3EKC7**
7	Phillips: #1 + #2, Slotted: 3 mm + 4 mm, Terminal Xeno #1 + #2	Wiha	**53KF18**
7	Phillips: #1 + #2, Slotted: 3 mm + 4 mm, Square #1 + #2	Wiha	**53KF17**
7	Phillips: #1 + #2, Slotted: 1/8 in + 5/32 in + 7/32 in + 1/4 in	Wiha	**53KF16**
9	Phillips: #1 + #2, Slotted: 4 mm + 6.5 mm, Torx: T15 + T20, Xeno #2	Wiha	**26X284**
12	Phillips: #2, Slotted: 3 mm + 5.5 mm, Square: #1 + #2, Terminal Block: #1 + #2, Torx: T8 + T10 + T15 + T20	Wiha	**53KH19**
15	Phillips:#1 #2, Slotted: 3 mm + 4 mm + 5.5 mm + 6.5 mm, Square #1 + #2, Torx T8 + T10 + T15 + T20, Xeno Terminal:#1 #2	Wiha	**26X282**
19	Hex: 3 mm + 4 mm + 5 mm, Phillips: #1 + #2, PoziDriv: #1 + #2, Slotted: 3 mm + 4 mm + 5.5 mm, Square: #1 + #2, Torx: T8 + T10 + T15 + T20	Wiha	**53KH20**

15-Pc.
26X282

Tether-Ready Tools

When working at heights, it's imperative to secure hand tools to a fixed point to prevent injuries caused by dropping. Proto® SkyHook™ Tether and Transfer systems provide positive control of hand tools at height, secure tool transfers, and a free range of motion. SkyHook™ switch connector tethers to the tool on a short lanyard and is compatible with screw-gate carabiners. Allows hands-free tool transfer. SkyDock™ attachment anchors SkyHook connector to the wrist, belt, apron, or station. Tools can be tethered with shrink loops, tool collars, lanyards, or bungees for use with the system.

Easy hands-free tool transfer

Keep tools securely connected to wrist or belt

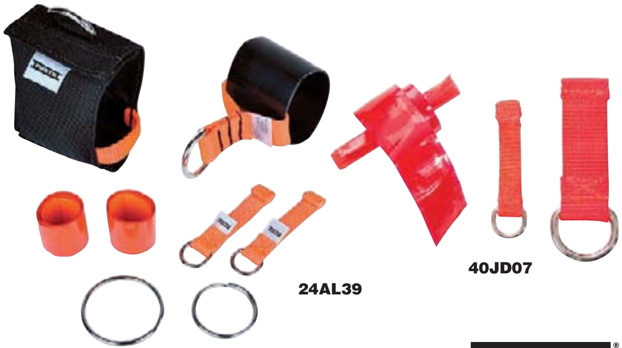
24AL34

24AL42

SkyHook Components and Kits

SkyHook switch connector tethers to the tool on a short lanyard. SkyDock attachment securely anchors the SkyHook to wrist, belt, or apron.

Description	Mfr. Model	Item No.
SkyHook Kits		
SkyHook Switch Connector and SkyDock Storage Attachment	JPST1	**24AL36**
SkyHook Switch Connector, SkyDock Storage Attachment, and SkyHook Wrist Strap	JPS1	**24AL34**
(2) SkyHooks, (2) SkyDocks, and (2) Wrist Straps	JPS2	**24AL35**
(4) SkyHooks Switch Connectors, (4) SkyDocks Storage Attachments, and (2) SkyHook Wrist Straps	JPSSCAFF4	**39CE45**
(5) SkyHooks, (5) SkyDocks, and (2) Wrist Straps	JPSSCAFF5	**24AL38**
Components		
SkyDock Storage Attachment	JPSDOCK	**39CE44**
SkyHook Switch Connector	JPS	**39CE41**
SkyHook Wrist Strap	JWS-SH	**39CE42**
Storage Kits		
SkyHook Single Dock Pouch and SkyHook Switch Connector	JPSTLPKT1	**39CE47**
SkyDock Dual Dock Pouch and (2) SkyHook Switch Connectors	JPSTLPKT2	**24AL42**
SkyDock Triple Dock Pouch and (3) SkyHook Switch Connectors	JPSTLPKT3	**39CE48**
SkyHook Holder for Hammer or Ratchet and SkyHook Switch Connector	JPSHS	**24AL37**
SkyHook Tape Measure Pouch with SkyHook Switch Connector	JPSTAPE	**24AL41**
SkyDock Dual Dock Bolt Bag and (2) SkyHook Switch Connectors	JPSBOLT	**24AL44**
8-Pocket Saddle w/integrated SkyDocks and (8) SkyHook Switch Connectors	JPSSDLSM	**39CE46**
SkyDock 30 in 6-Dock Apron and (6) SkyHook Switch Connectors	JPSAPRON30	**39CE43**



24AL39

40JD07

Tethering Kits and Web Tethers

4- and 5-Piece kits include recommended tether attachments for tape measure, lineman's pliers, hammer, and level; heat shrink loop; and sealing tape. Web D-Ring Kit includes 2 web D-rings and sealing tape.

Description	Mfr. Model	Item No.
Tethering Kits		
4-Piece Tethering Kit w/Key Ring and Web D-Ring	JPSSCAFF4KIT	**31CL46**
5-Piece Tethering Kit w/ (2) Key Rings and (2) Web D-Rings	JPSSCAFF5KIT	**24AL39**
Web-D-RIng and Tape Kit	JDRSMPLKIT	**40JD07**
Heat Gun Installation	JP2RGRGUN	**40JD01**
Web Tethers		
D-Ring Web Tether, 2½ in L	JDRSMOR	**31CL36**
HD D-Ring Web Tether, 3½ in L	JDRHDOR	**31CL37**
Tether Rings		
0.4 in Dia.	JSR04	**40JC98**
0.6 in Dia.	JSR06	**40JD02**
1 in Dia.	JSR1	**40JD27**
1.25 in Dia.	JSR125	**40JD21**
1.5 in Dia.	JSR15	**40JD09**
2 in Dia.	JSR2	**40JD24**

24AK03

Tethered Pipe and Striking Wrenches

Pipe
- Aluminum with steel jaw
- Lanyard ordered separately

Striking
- Black oxide finish
- Fitted with heat shrink tether loop

Size	Overall Length	Offset	Item No.
Metric, Offset, 12-Point Box End, Tether Included			
36mm	12 in	1½ in	**24AK26**
55mm	13 in	2 1/64 in	**24AK30**
Offset, 12-Point Box End, Tether Included			
1 13/16 in	13 in	1 9/16 in	**24AK15**
2 in	13 in	1 21/32 in	**24AK18**
SAE, Offset, 12-Point Box End, Tether Included			
1 1/16 in	8 in	15/16 in	**24AK03**
Striking Wrenches - 12-Pt. Metric			
32mm	11 in	1 3/16 in	**24AK25**
46mm	13 in	1 37/64 in	**24AK28**
50mm	13 in	1 21/32 in	**24AK29**
60mm	13 in	2 1/64 in	**24AK31**
65mm	13 in	2¼ in	**24AK32**
70mm	13 in	2¼ in	**24AK33**
75mm	16 in	2 41/64 in	**24AK34**
80mm	16 in	2 41/64 in	**24AK35**
Striking Wrenches - 12-Pt. SAE			
1⅛ in	11 in	15/16 in	**24AK04**
1 3/16 in	11 in	13/16 in	**24AK05**
1¼ in	11 in	13/16 in	**24AK06**
1 5/16 in	11 in	13/16 in	**24AK07**
1⅜ in	12 in	1½ in	**24AK08**
1 7/16 in	12 in	1½ in	**24AK09**
1½ in	12 in	1½ in	**24AK10**
1 9/16 in	12 in	1 7/16 in	**24AK11**
1⅝ in	12 in	1½ in	**24AK12**
1 11/16 in	13 in	1½ in	**24AK13**
1¾ in	13 in	1 9/16 in	**24AK14**
1⅞ in	13 in	1 21/32 in	**24AK16**
1 15/16 in	13 in	1⅞ in	**24AK17**
2 1/16 in	13 in	2 in	**24AK19**
2⅛ in	14 in	2 in	**24AK20**
2 3/16 in	13 in	2 in	**24AK21**
2¼ in	13 in	2 in	**24AK22**
2 5/16 in	13 in	2 in	**24AK23**

Jaw Cap.	Overall Length	Item No.
Pipe Wrenches		
1 ½ in	10 in	**24AK36**
2 in	14 in	**24AK38**
Straight Pipe Wrenches		
2 in	12 in	**24AK37**
Straight Pipe Wrenches, Tether Ready		
4 in	24 in	**24AK39**

Tool Collar and Loop 24AL49

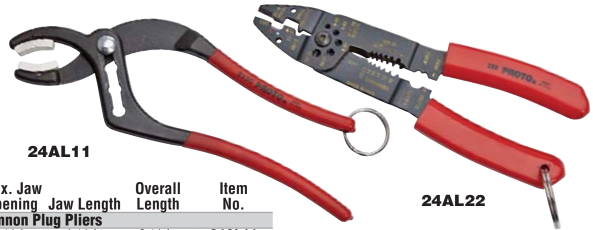
Heat Shrink Loop 24AL55

Tool Collars & Heat Shrink Loops

Tool collars and heat shrink loops are weight and size rated for best fit on a wide range of tool sizes. Existing tools can be retrofitted with the same Proto Industrial Tether Attachments used in the general product line.

Kit 40JD18 includes an assortment of 8 sizes of Tool Collars and Loops. Kit 40JD25 includes an assortment of 8 sizes of Heat Shrink Loops.

Fits Shaft Dia.	Item No.
Tool Collar and Loop	
⅛ in	**24AL48**
⅛ in to ¼ in	**24AL49**
¼ in to 5/16 in	**24AL50**
5/16 in to 7/16 in	**24AL51**
⅜ in to ½ in	**24AL52**
½ in to ¾ in	**24AL53**
¾ in to 1 in	**24AL54**
Heat Shrink Loops	
¼ in to ½ in	**24AL58**
⅜ in to ¾ in	**24AL59**
½ in to 1 ¼ in	**24AL55**
¾ in to 1 ¾ in	**24AL57**
1 ½ in to 2 ½ in	**24AL56**
1 ½ in to 2 ½ in	**24AL60**
¾ in to 1¾ in	**24AL61**
2 ¼ in to 3 ½ in	**40JD32**
Tool Collar and Loop Kit	
⅛ in to 1 in	**40JD18**
Heat Shrink Loop Kit	
¾ in to 4 in	**40JD25**



24AL11

24AL22

Max. Jaw Opening	Jaw Length	Overall Length	Item No.
Cannon Plug Pliers			
2 ½ in	1 ⅛ in	9 ½ in	**24AL11**
Locking Pliers			
—	1 ⅝ in	9 ¼ in	**24AL21**
Slip Joint Plier - Knurled Handle			
31/64 in	2 ⅛ in	10 in	**31CL52**
½ in	1 ⅞ in	6 ½ in	**31CL48**
11/16 in	2 ⅛ in	8 in	**31CL50**
Slip Joint Plier - Rubber Handle			
31/64 in	2 ⅛ in	10 in	**31CL51**
½ in	1 ⅞ in	6 ½ in	**31CL26**
11/16 in	2 ⅛ in	8 in	**31CL49**
Tongue and Groove Plier			
1 3/32 in	1 ⅝ in	7 in	**31CL25**
1 ¾ in	2 ⅛ in	10 in	**16TH18**
2 ⅝ in	2 ¾ in	12 in	**16TW24**

PROTO®

Tethered Pliers

- Integrated tether attachment point in handle

Jaw Type	Overall Length	Item No.
Wire Twister Pliers		
Serrated	8 ¾ in	**24AL23**
Wire Stripper/Crimper		
Box Style Crimp	8 ½ in	**24AL22**

34GP75

Tethered Wrenches & Sets

PROTO®

- Fitted with heat shrink tether loop

Size	Overall Length	Finish	Item No.
Double Box End Wrenches - 12-Pt. SAE			
5/16 in x ⅜ in	7 in	Chrome	**34GP75**
9/16 in x ⅝ in	9 ½ in	Chrome	**34GP77**
11/16 in x ¾ in	11 ⅛ in	Chrome	**34GP78**
15/16 in x 1 in	15 in	Chrome	**34GP80**
Flare Nut Wrenches - 6-Pt. SAE			
⅜ x 7/16 in	6 ¼ in	Satin	**34GP67**
½ x 9/16 in	7 ½ in	Satin	**34GP68**
⅝ x 11/16 in	8 ¾ in	Satin	**34GP69**
Metric, 12-Point Box End			
7mm	5 ⅛ in	Satin	**24AJ87**
8mm	5 ⅜ in	Satin	**24AJ88**
10mm	6 in	Satin	**24AJ89**
12mm	7 ¾ in	Satin	**24AJ90**
14mm	8 ¾ in	Satin	**24AJ91**
16mm	9 ½ in	Satin	**24AJ92**
18mm	10 ¾ in	Satin	**24AJ93**
20mm	11 ½ in	Satin	**24AJ94**
22mm	12 ½ in	Satin	**24AJ95**
24mm	13 ¼ in	Satin	**24AJ96**
26mm	14 ¾ in	Satin	**24AJ97**
28mm	15 ½ in	Satin	**24AJ98**
29mm	15 ¾ in	Satin	**24AJ99**
30mm	15 ¾ in	Satin	**24AK01**
32mm	16 ⅞ in	Satin	**24AK02**
SAE, 12-Point Box End			
7/16 in	7 in	Satin	**24AJ73**
15/16 in	13 ¼ in	Satin	**24AJ81**
1 in	14 in	Satin	**24AJ82**
1 1/16 in	15 ¼ in	Satin	**24AJ83**
1 ⅛ in	15 ⅞ in	Satin	**24AJ84**
SAE, 12-Point Box End, Tether Included			
½ in	8 in	Satin	**24AJ74**
9/16 in	8 ¾ in	Satin	**24AJ75**
⅝ in	9 ½ in	Satin	**24AJ76**
11/16 in	10 ¼ in	Satin	**24AJ77**
¾ in	11 in	Satin	**24AJ78**
13/16 in	12 in	Satin	**24AJ79**
⅞ in	12 ½ in	Satin	**24AJ80**
1 ¼ in	16 ⅞ in	Satin	**24AJ85**
Straight, Double End, 12-Point Box End, Tether Ready			
7/16 in x ½ in	8 in	Chrome	**34GP76**
13/16 in x ⅞ in	13 in	Chrome	**34GP79**
1 1/16 in x 1 ⅛ in	17 ½ in	Chrome	**34GP81**
Tethered Combination Wrenches - 12-Pt. SAE			
5/16 in	5 ⅜ in	Satin	**24AJ71**
⅜ in	6 in	Satin	**24AJ72**

No. of Pieces	Wrenches Included	Finish	Item No.
SAE, 12-Point Box End, Rounded Opening, Tether Ready			
15	5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16, 1, 1 1/16, 1 ⅛, 1 ¼ in	Satin	**24AJ70**
Metric, 12-Point Box End, Rounded Opening, Tether Ready			
15	7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32mm	Satin	**24AJ86**
Double End, Fixed Head, 6-Point, Tether-Ready			
3	⅜ x 7/16, ½ x 9/16, ⅝ x 11/16 in	Satin	**40JC85**
5	7 x 8, 9 x 11, 10 x 12, 13 x 14, 15 x 17mm	Satin	**40JD05**
Double End, Tether Ready			
7	5/16 x ⅜, 7/16 x ½, 9/16 x ⅝, 11/16 x ¾, 13/16 x ⅞, 15/16 x 1, 1 1/16 x 1 ⅛ in	Chrome	**40JC83**
12-Pt. Wrench Sets			
11	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19, 21 x 24, 22 x 24, 27 x 30, 30 x 32mm	Chrome	**40JD22**

24AJ63

Tethered Torque Wrenches

PROTO®

- Calibrated to ±3% clockwise and ±6% counterclockwise at 20 to 100% full scale
- Locking pin detent retains socket during use
- Fitted with heat shrink tether loop

Drive Size	Primary Scale Range	Primary Scale Increments	Overall Length	Item No.
⅜ in	20 ft-lb to 100 ft-lb	0.5 ft-lb	17 in	**24AJ66**
⅜ in	16 N-m to 80 N-m	0.5 N-m	15 in	**24AJ63**
½ in	50 ft-lb to 250 ft-lb	1 ft-lb	27 ¼ in	**24AJ65**
½ in	40 N-m to 200 N-m	1 N-m	21 ½ in	**24AJ64**

PROTO®

Tool Lanyards, Wrist Straps and Belts

24AL29

38HW43

38HW38

24AL31

38HW32

Description	Max. Working Load	Mfr. Model	Item No.
Hard Hat Lanyards			
Lanyard w/Carabiner	—	JLANHATRD	**24AL31**
Kit w/ (2) Hard Hat Lanyards and (2) Glove Holders	—	JPPESMPLKIT	**40JD04**
Tool Lanyards			
Single Triple Lock Carabiner	15 lb	JLAN15LB3LK	**31CL17**
Triple Lock Swivel Carabiner	40 lb	JLAN40LBD3LK	**31CL19**
Dual Triple Lock Swivel Carabiners	40 lb	JLAN40LBD3LKSW	**31CL20**
Single Non-Locking SS Carabiner	15 lb	JLAN15LBSSCAR	**24AL29**
Dual Non-Locking SS Carabiner	15 lb	JLAN15LBDSS	**24AL64**
	25 lb	JLAN25LBDSS	**24AL66**
Single Screw Gate Carabiner	15 lb	JLAN15LBSSRP	**24AL63**
Lanyard Kit: Includes 7 Assorted Sizes of Lanyards	15 lb, 20 lb, 40 lb	JLANSMPLKIT	**40JD11**
Wrist Strap Lanyard Kits			
D-Ring Wrist Strap	—	JWS-DR	**38HW36**
Wrist Strap Lanyard	—	JLANWR6LB	**38HW33**
Kit w/ D-Ring Wrist Strap and Lanyard	—	JDR1	**38HW38**
Kit w/ (2) D-Ring Wrist Straps and (2) Lanyards	—	JDR2	**38HW39**
Kit w/ (4) D-Ring Wrist Straps and (4) Lanyards	—	JDR4	**38HW30**
D-Ring Pouch Set w/Pocket, Lanyard and D-Ring Wrist Strap System	—	JRETSET1	**38HW31**
D-Ring Pouch Set w/(2) Pockets, Lanyard and D-Ring Wrist Strap System	—	JRETSET2	**38HW41**
Comfort Belt and Belt Sets			
Comfort Belt - Med. Fits Waist 28 to 40 in	—	JBELTCM-M	**38HW43**
Comfort Belt - Lg. Fits Waist 40 to 54 in	—	JBELTCM-L	**38HW44**
Belt Adapter w/(2) Carabiners	—	JBELTAD2	**38HW40**
Comfort Belt - Med. w/ (2) Belt Adapters and D-Ring Wrist Strap System	—	JBELTSET-M	**38HW35**
Comfort Belt - Lg. w/ (2) Belt Adapters and D-Ring Wrist Strap System	—	JBELTSET-L	**38HW37**
D-Ring Pouch w/Pocket and Lanyard	—	JRETPOU1	**38HW29**
D-Ring Pouch w/(2) Pockets and Lanyard	—	JRETPOU2	**38HW34**
Tool Lift Bucket			
Bucket, 13 in Dia. x 15 in Depth, 100 lbs. Max. Lift Wt.	—	JBUCK300LBZP	**38HW32**
Bucket w/D-Ring Wrist Strap System	—	JBUCKSET	**38HW42**
Accessories			
Tape Measure Sleeve	—	JTAPESLV	**31CL47**
Sealing Tape	—	JMOL36RFOR	**24AL46**

SAE, Straight, Double End, 6-Point, Tether Ready 34GP45

Tethered Ratcheting Wrenches

PROTO®

- Fitted with heat shrink tether loop

Head Size	Overall Length	Finish	Item No.
Straight, Double End, Spline Box End			
¼ in	5 in	Black Chrome	**34GP26**
9/32 in	5 ½ in	Black Chrome	**34GP17**
5/16 in	5 ½ in	Black Chrome	**34GP18**
5/16 in	5 ½ in	Black Chrome	**34GP27**
⅜ in	6 ¼ in	Black Chrome	**34GP19**
⅜ in	6 ¼ in	Black Chrome	**34GP28**
7/16 in	6 ½ in	Black Chrome	**34GP20**
7/16 in	6 ½ in	Black Chrome	**34GP29**
½ in	7 in	Black Chrome	**34GP21**
½ in	7 in	Black Chrome	**34GP30**
9/16 in	7 ½ in	Black Chrome	**34GP22**
9/16 in	7 ½ in	Black Chrome	**34GP31**
⅝ in	8 ¼ in	Black Chrome	**34GP23**
⅝ in	8 ¼ in	Black Chrome	**34GP32**
11/16 in	8 ¾ in	Black Chrome	**34GP24**
11/16 in	8 ¾ in	Black Chrome	**34GP33**
¾ in	9 ¾ in	Black Chrome	**34GP34**
¾ in	9 ¾ in	Black Chrome	**34GP25**
Straight, Double End, 6-Point Box End			
¼ in, 5/16 in	4 ¼ in	Chrome	**34GP45**
⅜ in, 7/16 in	5 ½ in	Chrome	**34GP46**
Straight, Double End, 12-Point Box End			
¼ in, 5/16 in	4 ½ in	Chrome	**34GP62**
⅜ in, 7/16 in	5 ½ in	Chrome	**34GP63**
½ in, 9/16 in	7 in	Chrome	**34GP64**
⅝ in, 11/16 in	8 in	Chrome	**34GP48**
⅝ in, 11/16 in	8 in	Chrome	**34GP65**
¾ in, ⅞ in	9 ¼ in	Chrome	**34GP66**

No. of Pieces	Wrenches Included	Item No.
6, 12-Pt. Wrench Sets		
Chrome Finish		
5	7mm x 8mm, 9mm x 10mm, 11mm x 12mm, 13mm x 14mm, 15mm x 17mm	**40JC86**
6, 12-Pt. Wrench Sets - 25° Offset		
Chrome Finish		
5	¼ in x 5/16 in, ⅜ in x 7/16 in, ½ in x 9/16 in, ⅝ in x 11/16 in, ¾ in x ⅞ in	**40JD34**
Double End, 12-Point Box End, 6-Point Box End		
Chrome Finish		
5	¼ in x 5/16 in, ⅜ in x 7/16 in, ½ in x 9/16 in, ⅝ in x 11/16 in, ¾ in x ⅞ in	**40JC82**
Double End, 12-Point Box End, 6-Point Box End, Tether Ready		
Chrome Finish		
7	7mm x 8mm, 9mm x 10mm, 11mm x 13mm, 12mm x 14mm, 15mm x 17mm, 16mm x 18mm, 19mm x 21mm	**40JD31**
Metric 12-Point Tether Ready		
Black Chrome Finish		
13	7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	**40JD13**
10	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm	**40JC80**
SAE 12-Point Tether Ready		
Black Chrome Finish		
9	9/32 in, 5/16 in, ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in, 11/16 in, ¾ in	**40JD03**
9	¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in, 11/16 in, ¾ in	**40JC81**

24AJ69

24AH07

PROTO

Tethered Ratchets and Sockets

Sockets attach securely to ratchets using the Positive Control Pin Detent System that requires a separate tool to attach or remove the socket. Sockets cannot be removed without specific intent. Pin detent will engage correctly regardless of the direction the socket is placed on the square drive.

Drive Size	Overall Length	Item No.
Reversing Ratchets		
⅜ in Drive Size		
⅜ in	8 ½ in	**24AJ69**
⅜ in	11 in	**31CL45**
½ in Drive Size		
½ in	10 ½ in	**24AJ67**
½ in	15 in	**24AJ68**

Drive Size	No. of Pieces	Sockets Included	Item No.
Socket Sets - SAE			
12 Pt. Std.			
⅜ in	10	(10) Standard 12-Point	**1AC77**
	13	(13) Standard 12-Point	**24AH47**
½ in	19	(19) Standard 12-Point	**24AJ01**
12 Pt. Deep			
⅜ in	13	(13) Deep 12-Point	**24AH61**
½ in	19	(19) Deep 12-Point	**24AJ21**
Socket Sets - Metric			
12 Pt. Std.			
⅜ in	21	(21) Standard 12-Point	**24AH06**
½ in	24	(24) Standard 12-Point	**24AH75**
12 Pt. Deep			
⅜ in	18	(18) Deep 12-Point	**24AH28**
Std Hex Bit			
½ in	6	10 mm, 12 mm, 14 mm, 17 mm, 6 mm, 8 mm	**4JX23**

Size	Item No.
Sockets, 12-Point Standard	
⅜ in Drive Size	
¼ in	**24AH48**
5/16 in	**24AH49**
⅜ in	**24AH50**
7/16 in	**24AH51**
½ in	**24AH52**
9/16 in	**24AH53**
⅝ in	**24AH54**
11/16 in	**24AH55**
¾ in	**24AH56**
13/16 in	**24AH57**
⅞ in	**24AH58**
15/16 in	**24AH59**
1 in	**24AH60**
½ in Drive Size	
⅜ in	**24AJ02**
7/16 in	**24AJ03**
½ in	**24AJ04**
9/16 in	**24AJ05**
⅝ in	**24AJ06**
11/16 in	**24AJ07**
¾ in	**24AJ08**
13/16 in	**24AJ09**
⅞ in	**24AJ10**
15/16 in	**24AJ11**
1 in	**24AJ12**
1 1/16 in	**24AJ13**
1⅛ in	**24AJ14**
1 3/16 in	**24AJ15**
1¼ in	**24AJ16**
1 5/16 in	**24AJ17**
1⅜ in	**24AJ18**
1 7/16 in	**24AJ19**
1½ in	**24AJ20**
Sockets, 12-Point Deep	
⅜ in Drive Size	
¼ in	**24AH62**
5/16 in	**24AH63**
¼ in	**24AH64**
3/32 in	**24AH65**
½ in	**24AH66**
9/16 in	**24AH67**
⅝ in	**24AH68**
11/16 in	**24AH69**
¾ in	**24AH70**
13/16 in	**24AH71**
⅞ in	**24AH72**
15/16 in	**24AH73**
1 in	**24AH74**
½ in Drive Size	
⅜ in	**24AJ22**
7/16 in	**24AJ23**
½ in	**24AJ24**
9/16 in	**24AJ25**
⅝ in	**24AJ26**
11/16 in	**24AJ27**
¾ in	**24AJ28**
13/16 in	**24AJ29**
⅞ in	**24AJ30**
15/16 in	**24AJ31**
1 in	**24AJ32**
1 1/16 in	**24AJ33**
1⅛ in	**24AJ34**
1 3/16 in	**24AJ35**
1¼ in	**24AJ36**
1 5/16 in	**24AJ37**
1⅜ in	**24AJ38**
1 7/16 in	**24AJ39**
1½ in	**24AJ40**
Sockets, 12-Point Standard	
⅜ in Drive Size	
6mm	**24AH07**
7mm	**24AH08**
8mm	**24AH09**
9mm	**24AH10**
10mm	**24AH11**
11mm	**24AH12**
12mm	**24AH13**
13mm	**24AH14**
14mm	**24AH15**
15mm	**24AH16**
16mm	**24AH17**
17mm	**24AH18**
18mm	**24AH19**
19mm	**24AH20**
20mm	**24AH21**
21mm	**24AH22**
22mm	**24AH23**
23mm	**24AH24**
24mm	**24AH25**
25mm	**24AH26**
26mm	**24AH27**
½ in Drive Size	
10mm	**24AH76**
11mm	**24AH77**
12mm	**24AH78**
13mm	**24AH79**
14mm	**24AH80**
15mm	**24AH81**
16mm	**24AH82**
17mm	**24AH83**
18mm	**24AH84**
19mm	**24AH85**
20mm	**24AH86**
21mm	**24AH87**
22mm	**24AH88**
23mm	**24AH89**
24mm	**24AH90**
25mm	**24AH91**
26mm	**24AH92**
27mm	**24AH93**
28mm	**24AH94**
29mm	**24AH95**
30mm	**24AH96**
31mm	**24AH97**
32mm	**24AH98**
36mm	**24AH99**
Sockets, 12-Point Deep	
⅜ in Drive Size	
6mm	**24AH29**
7mm	**24AH30**
8mm	**24AH31**
9mm	**24AH32**
10mm	**24AH33**
11mm	**24AH34**
12mm	**24AH35**
13mm	**24AH36**
14mm	**24AH37**
15mm	**24AH38**
16mm	**24AH39**
17mm	**24AH40**
18mm	**24AH41**
19mm	**24AH42**
20mm	**24AH43**
21mm	**24AH44**
22mm	**24AH45**
23mm	**24AH46**
Sockets, 6-Point Hex	
¼ in	**24AJ42**
⅛ in	**24AJ43**
3/16 in	**24AJ44**
⅜ in	**24AJ45**
5/16 in	**24AJ46**
5/32 in	**24AJ47**
7/32 in	**24AJ48**
4mm	**24AJ54**
5mm	**24AJ55**
6mm	**24AJ56**
7mm	**24AJ57**
8mm	**24AJ58**
9mm	**24AJ59**
10mm	**24AJ53**
½ in Drive Size	
½ in	**24AJ49**
⅝ in	**24AJ50**
9/16 in	**24AJ51**
12mm	**24AJ60**
14mm	**24AJ61**
17mm	**24AJ62**

52NN40

Tool Lanyards

ergodyne

- Third party certified with 2:1 safety factor
- Tools not included

Squids lanyards are designed to help reduce the risk of dropped tools. With features like hi tensile strength webbing and reinforced stitching, they are made to hold up to harsh environmental conditions.

Description	Max. Working Load	L	Mfr. Model	Orange/Gray Item No.	Lime Item No.	Black Item No.	HV Lime Item No.
FX Series Lanyards							
Tool Lanyard Dual Carabiner	10 lb	38 in to 60 in	3110F(x)	**52NN41**	—	—	—
Tool Lanyard Dual Locking Carabiner	15 lb	38 in to 60 in	3118F(x)	**52NN43**	—	—	—
Tool Lanyard Single Carabiner	10 lb	38 in to 60 in	3100F(x)	**52NN40**	—	—	—
Tool Lanyard Single Locking Carabiner	15 lb	38 in to 60 in	3108F(x)	**52NN42**	—	—	—
Lanyards w/Loops							
Extended w/ Loop and Stainless Steel Carabiner 15 Lb Load Limit	15 lb	42 to 54 in	3101EXT	—	**23MU31**	—	—
With Loop and Stainless Steel Carabiner 15 Lb Load Limit	15 lb	35 to 42 in	3101	—	**23MU30**	—	—
Retractable Lanyards							
Retractable Lanyard w/ Carabiner 1 Lb Load Limit	1 lb	48 in	3000	—	—	**20YF54**	—
Retractable w/ Loop	2 lb	48 in	3001	—	—	**20YF55**	—
Standard Series Lanyards							
Dual Carabiner	10 lb	35 to 42 in	3110	—	**5NPP4**	**5NPP3**	—
Single Carabiner	10 lb	35 to 42 in	3100	—	**5NPP0**	**5NPN9**	—
Single Carabiner, Extended	10 lb	42 to 54 in	3100EXT	—	**5NPP2**	**5NPP1**	—
Tool Lanyards							
Coil Hard Hat Lanyard	2 lb.	18 in	3157	—	—	**45NJ44**	**45NJ45**
Coil Hard Hat Lanyard	2 lb.	13 in	3158	—	—	**45NJ46**	**45NJ47**
Wrist Lanyards							
Retractable Lanyard w/ Carabiner 3 Lb Load Limit	3 lb	8 in	3114	—	—	**45NJ42**	—
Wrist, L/XL	2 lb	7 ½ in	3115	—	—	**5NPP8**	—
Wrist, S/M	2 lb	7 ½ in	3115	—	—	**5NPP7**	—
Wrist Tool Lanyard, Buckle, 8 in L	3 lb	8 in	3116	—	—	**45NJ43**	—

52NN44

52NN47

Squids Tool Tails, Traps & Tethering Kits

ergodyne

Max. Working Load	L	Color	Item No.	Pkg. Qty.
Web Tool Tails				
2 lb	3 ½ in	Black	**32TN14**	6
2 lb	4 ½ in	Orange	**32TN15**	6
2 lb	5 ½ in	Black	**32TN16**	6
Elastic Loop Tool Tails				
10 lb	11 in	HV Lime	**32TN24**	3
15 lb	11 in	HV Lime	**32TN25**	3
15 lb	18 in	HV Lime	**32TN26**	3
Self Adhering Tape Tool Wrap				
8 lb	145 ⅝ in	White	**46AN62**	1
Power Tool Trap				
6 lb	3 ½ in	Black	**45NJ39**	1
6 lb	5 in	Black	**45NJ40**	1
Tape Measure Trap				
2 lb	—	Orange	**45NJ41**	1

Fits Shaft Dia.	Item No.	Pkg. Qty.
Cold Shrink Tool Traps		
¾ to 1½ in	**32TN19**	1
1 ¼ in to 1 ¾ in	**32TN20**	1
1 ¾ in to 2 ½ in	**32TN21**	1

Description	Max. Working Load	Mfr. Model	Item No.	Pkg. Qty.
Squids Tool Tethering Kits				
Tape Measure Tethering Kit - 2lb	2 lb	3190	**52NN44**	1
Power Tool Tethering Kit - 6lb	15 lb	3191	**52NN45**	1
Wrist Lanyard Tethering Kit - 3lb	2 lb	3192	**52NN46**	1
Tool Tethering Kit - 10lb	10 lb	3182	**52NN47**	1
Tool Tethering Kit - 2lb	2 lb	3180	**52NN48**	1
Tool Tethering Kit - 5lb	5 lb	3181	**52NN49**	1

AMPCO® Nonsparking, Nonmagnetic, Corrosion Resistant Safety Tools Information

OSHA's new Hazard Communication Standard now requires nonsparking tools with flammable liquids. For our full offering of nonsparking hand tools go to Grainger.com® and search for "nonsparking tools."

Note: Static sparks can ignite flammable vapors, liquids, dusts and residues. The alloys used to make Ampco Safety Tools are highly conductive and must be grounded if there is concern for static-electric charge. AMPCO® and other copper based tools should not be used in direct contact with acetylene and some explosives such as amatol, azide salts, lead azide and DBX.

NONSPARKING
OSHA, NFPA, MSHA and other Standards Developing Organizations require and recommend the use of nonsparking tools where flammable vapors, liquids, dusts or residues are present.

NONMAGNETIC
Prevent accidents and protect property in military, medical, and electronics manufacturing locations. Excellent for use in highly sensitive magnetic equipment and in clean room environments. Meet ASTM F2503 and ASTM A342 standards.

CORROSION RESISTANT
Chemicals, acids and salt water over time diminish the effectiveness of steel tools. Ampco Safety Tools provide durability, longevity and personnel safety in severe corrosive environments.

Nonsparking Tool Kits

Kits contain nonsparking tools that should be used wherever there may be flammable or combustible dusts, liquids, powders, or residue present. It is recommended that nonsparking hand tools are kept in specially designed kits and inventoried routinely. This process helps to ensure that steel tools are not used accidentally by first responders.

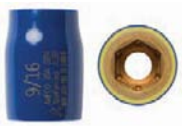
4RU47

No. of Pieces	Includes	Item No.
Screwdriver Kit		
6	Keystone Slotted 9/32 x 3 in , 5/16 x 6 in , ⅜ x 8 in , Phillips #1 x 3 in , #2 x 4 in , #3 x 6 in , and Pouch	**5MM02**
Metric, 12-Point Box End, Rounded Opening, Nonsparking, Tether Capable		
7	Yes, Tether Capable, No	**4RNZ7**
L-Shaped Hex Key Sets		
10	Metric: 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10mm	**4RNX9**
10	1/16, 5/64, 3/32, ⅛, 5/32, 3/16, 7/32, ¼, 5/16, and ⅜ in	**5MM03**
Tool Kits		
4	5/16 in Standard Screwdriver, 6½ in Combination Pliers, 8 in Adjustable End Wrench, 9 in Crate Opener	**8AKU0**
6	10 in Tongue and Groove, 6½ in Combination Pliers, 9 in Crate Opener, Phillips #2, Slotted 5/16 in, 8 in Adjustable Wrench	**4CZ75**
11	10 in Tongue and Groove, 8 in Combination Pliers, 10 in Shoe Handle Brush, Blade Knife 3⅛ in, Putty Knife 1¼ in, Phillips #2, Slotted 5/16 in, Claw Hammer 16 oz, 6 in, 10 in Adjustable, 10 in Pipe Wrench	**4CZ76**
16	5/16 x ⅜ in, 7/16 x ½ in, 9/16 x ⅝ in and ¾ x ⅞ in Double End Box Wrenches, #2 Phillips Screwdriver, Standard Screwdriver, 10 in Adjustable Wrench, 6½ and 8 in Combination Pliers, Groove Joint Pliers, Common Knife, Stiff Putty Knife, Claw Hammer, 14 in Adjustable Pipe Wrench, Shoe Handle Brush, Deck Scraper	**9G330**
17	12 in Tongue and Groove, 7 in Long Nose with Cutter, 8 in Combination Pliers, 10 in Shoe Handle Brush, Blade Knife 5¾ in, Putty Knife 1¼ in, Scraper 3 in, Phillips #3, Slotted 5/16 in, Claw Hammer w/Fiberglass Handle 16 oz	**4RU47**
17	10 in Groove Joint, 7 in Diagonal Cutting, 8 in Slip Joint, 8½ in Linemans Pliers, Toothbrush Style Scratch Brush with Wood Handle, Phillips Screwdriver 2 in X 4 in, Slotted Screwdriver 5/16 in X 6 in, 8 in, 10 in Adjustable, 12 pt. Box End 7/16 in, ½ in, 9/16 in Wrench	**24Y891**
Socket Sets, 6-Pt. Standard		
9	(5) Standard 6-Point; ½ in Drive	**4DC12**
11	(7) Standard 6-Point; ¾ in Drive	**4RPK1**
15	(11) Standard 6-Point; ¾ in Drive	**4RPJ9**
21	(17) Standard 6-Point; ½ in Drive	**1TEB6**
26	(22) Standard 6-Point; ½ in Drive	**1TEC6**

Battery Tools

24Y877
Diagonal Cutting Pliers

24Y884
Ratchet



24Y881
⅜" Drive Socket

- Meets NFPA 70E standard

Insulated, nonsparking hand tools protect against hazards of mechanical sparks, friction and impact sparks. Charging batteries produce hydrogen gas which is extremely flammable and is not easily detected by humans. These tools are exceptional for battery manufacturers, electrical safety consultants, and maintenance personnel who maintain battery systems, as well as those requiring uninterrupted power systems (UPS) and battery rooms for mission critical operations including government, hospitals, hazardous industrial processing and controls, data centers, computer rooms, and network operations.

Description	Item No.
Pliers	
7 ¼ in in Diagonal Cutting Pliers	**24Y877**
8 ¼ in in Slip Joint Pliers	**24Y875**
8¾ in Linemans Pliers	**24Y876**
10 ¼ in Tongue and Groove Pliers	**24Y878**
Screwdrivers	
No. 2 Pt. Phillips	**24Y879**
5/16 in Slotted	**24Y880**
Adjustable Wrenches	
4 in L	**24Y885**
10 in L	**24Y886**

Description	Item No.
Box End Wrenches	
5 ½ in L	**24Y888**
6 in L	**24Y889**
6 ¼ in L	**24Y890**
Hand Ratchet	
⅜ in Drive, 7 ¾ in L	**24Y884**
⅜ in Drive SAE Insulated Nonsparking Sockets	
7/16 in, 1 ½ in L	**24Y881**
½ in, 1 ½ in L	**24Y882**
⅜ in Drive, 6-Pt. Nonsparking Sockets, Standard	
9/16 in, 1 ½ in L	**24Y883**
Extension	
For use with ⅜ in Drive Sockets	**24Y887**

4DC28
Flange Wedge

49UR67
Striking Wrench

4DC29
Adjustable Hook Spanner Wrench

2ZB23
Barrel Hooks

Flammable Liquid Tools

Liquids are the most common hazardous chemicals found in the workplace. Use only nonsparking tools with flammable liquids such as solvents, petrochemicals, and hazardous waste.

Description	Item No.
Flange Wedges	
3 ¼ in in L x ½ in inW x ¼ in inH	**4RNU2**
3 ½ in in L x 2 in inW x ⅜ in inH	**4RNU6**
3 ¾ in in L x ¾ in inW x ½ in inH	**4DC05**
6 in in L x 1 ½ in inW x ¾ in inH	**2VJ19**
7 in in L x 1 ¼ in inW x ½ in inH	**4RNU3**
7 in in L x 2 in inW x ⅜ in inH	**4RNU5**
7 in in L x 2 in inW x ¾ in inH	**4DC16**
7 ¾ in in L x 1 ½ in inW x 1 ⅝ in inH	**2VJ20**
6 in in L x 1 in inW x ½ in inH	**4DC13**
8 in in L x 1 ½ in inW x 1 in inH	**4DC28**
8 in in L x 2 in inW x ¾ in inH	**4RNU4**
8 in in L x 2 inW x 2 in inH	**46C043**
8 ½ in in L x 2 in inW x 1 ¼ in inH	**4DC04**
Striking Wrenches, 12 Pt., SAE	
8 in L, 1 5/16 in Nominal Size	**49UR68**
8 in L, 1 ¼ in Nominal Size	**49UR67**
8 in L, 1 7/16 in Nominal Size	**49UR70**
9 in L, 1 ½ in Nominal Size	**49UR71**
9 in L, 1 ⅝ in Nominal Size	**49UR73**
9 in L, 1 11/16 in Nominal Size	**49UR74**
9 in L, 1 13/16 in Nominal Size	**49UR76**
10 in L, 1 ⅞ in Nominal Size	**49UR77**
10 in L, 2 3/16 in Nominal Size	**49UR81**
11 in L, 2 9/16 in Nominal Size	**49UR87**
13 in L, 2 ⅝ in Nominal Size	**49UR88**
11 in L, 2 ⅜ in Nominal Size	**49UR84**
13 in L, 2 ¾ in Nominal Size	**49UR89**
Adjustable Hook Spanner Wrenches	
4 ½ in to 6 ⅜ in dia. Cap.	**4DC29**
1 ¼ in to 3 in dia. Cap.	**4RPA9**
Adjustable-Hook Spanner Wrenches	
2 in to 4 ¾ in dia. Cap.	**4RPC1**
Barrel Hooks	
Fixed, 1500 lb Cap.	**8DFC1**
Adjustable, 1,500 lb Cap.	**2ZB23**

Find more information on Nonsparking, Nonmagnetic, and Corrosion-Resistant Safety Tools on page 859.
Find more Ampco Safety Tools and information on Nonsparking Tools at Grainger.com®; search for "Ampco".

Mallet
2ZB28

Monkey Wrench
1TEB5

Knot Wire Wheel
1TEB8

Floor Scraper Blade
4CZ98

Square Point Shovel
2VJ17

AMPCO USA

General Nonsparking Tools

Nonsparking tools are specifically designed to perform safely and exceptionally in most volatile environments.

Description	Item No.
Bars	
Crow Bar	
18 in L	9RC50
24 in L	4DC14
30 in L	9MJJ1
36 in L	2VJ21
Pinch Bar	
18 in L	2ZB29
30 in L	8AZX5
36 in L	2VJ12
Pry Bar	
60 in L	2VJ13
68 in L	8RMT7
Hand Chisels	
¼ in Tip, 5 ¼ in L	4CZ60
7/16 in Tip, 5 ¾ in L	4RPP5
9/16 in Tip, 6 ½ in L	4CZ59
9/16 in Tip, 12 in L	46C022
11/16 in Tip, 9 ⅛ in L	46C058
¾ in Tip, 6 in L	46C013
¾ in Tip, 9 in L	46C012
¾ in Tip, 14 ½ in L	46C047
13/16 in Tip, 8 in L	4CZ61
⅞ in Tip, 9 in L	46C023
⅞ in Tip, 12 in L	4RPP6
1 1/16 in Tip, 9 ¼ in L	46C011
Pneumatic Chisels	
Hex Shank	
Bull Point Tip, 21 in L	4RPP7
Square Shank	
2" Scaling, 7 ¾ in L	4RPR2
Hex Shank	
3" Wide Tip, 18 in L	4RPP8
Round Shank	
1¼" with Retaining Collar, 6 ¾ in L	46C008
1½" Scaling, 7 ¾ in L	4RPP9
2½" Scaling, 9 in L	4RPR1
Drift Pins	
Barrel	
3/16 in, 11/16 in" Tip, 8 in" L, 11/16 in" Hex	4RPN2
5/16 in" Tip, 8 in"L, 13/16 in" Hex	4RPN3
7/16 in" Tip, 8 in" L, 15/16 in" Hex	4RPN4
9/16 in" Tip, 8 in" L, 1 1/16 in" Hex	46C019
11/16 in" Tip, 8 in" L, 1 3/16 in" Hex	4RPN5
Straight	
¼ in" Tip, 6 in" L, ½ in" Hex	4RPL6
9/32 in" Tip, 6 in" L, 11/16 in" Hex	4RPL7
5/16 in" Tip, 8 in" L, 13/16 in" Hex	4RPL8
7/16 in" Tip, 10 in" L, 15/16 in" Hex	4RPL9
½ in" Tip, 10 in" L, 1 ⅛ in" Hex	4RPN1
Punches	
Hand, 7 ¾ in" L, 1 in" Tip	46C073
Center, 4 in" L, 5/16 in" Hex	4RPL2
⅜ in Shank, 4 ½ in L	4RPL3
½ in Shank, 5 in L	4RPL4
⅝ in Shank, 6 in L	4RPL5
Marlin Spike, 16 in"L	46C094
Double End Scriber, 6 in"L, 90°, Straight Point, ⅛ in"-dia. Handle	46C042
Round Pin Punches	
⅜ in" Hex, ⅛ in" Tip	4RPK6
9/16 in" Hex, ¼ in" Tip	4RPK7
9/16 in" Hex, ⅜ in" Tip	4RPK8
11/16 in" Hex, ½ in" Tip	4RPK9
13/16 in" Hex, ⅝ in" Tip	4RPL1
Hammers	
Backing Out Hammer	
14 in L, 1 ½ lb Head Weight	21XV13
14 in L, 1 lb Head Weight	21XV14
14 in L, 1 lb Head Weight	21XV15
14 in L, 2 lb Head Weight	46C054
Cross Peen Hammer	
14 in L, 24 oz Head Weight	46C025
15 in L, 2 ½ lb Head Weight	46C018
15 in L, 3 ½ lb Head Weight	46C049
Scaling Hammer	
14 in L, 16 oz Head Weight	4RPK4
14 in L, 2 lb Head Weight	4RPK5
15 in L, 3 lb Head Weight	8PHY2
Bricklayer Hammer	
14 in L, 2 lb Head Weight	4RPK3

Description	Item No.
Engineering Hammer	
15 in L, 3 lb Head Weight	2VJ10
Sledge	
33 in L, 6 lb Head Weight	3NY51
33 in L, 8 lb Head Weight	2VJ11
33 in L, 10 lb Head Weight	3NY52
33 in L, 16 lb Head Weight	2ZB25
33 in L, 18 lb Head Weight	2ZB26
33 in L, 22 lb Head Weight	49UG72
33 in L, 12 lb Head Weight	49UG70
Mallets	
Mallet	
14 in L, 2 ½ lb Head Weight	9NKV7
15 in L, 4 lb Head Weight	2ZB28
Sledge	
15 in L, 6 lb Head Weight	9AKP5
6-Point Socket	
5/16", 1 3/16 in L	9PA51
⅜", 1 3/16 in L	1TEC7
7/16", 1 3/16 in L	8FF79
½", 1 3/16 in L	1TEC8
9/16", 1 3/16 in L	1TEC9
19/32", 1 3/16 in L	9GMR4
⅝", 1 7/16 in L	8PLN4
11/16", 1 7/16 in L	9UN99
¾", 1 7/16 in L	1TEF1
25/32", 1 7/16 in L	9CN64
13/16", 1 7/16 in L	8F881
⅞", 1 ½ in L	9MP86
15/16", 1 ½ in L	1TEF2
1", 1 ½ in L	1TEF3
1 1/16", 1 ½ in L	9JC18
1⅛", 1 ⅝ in L	1TEF4
1¼", 1 ⅝ in L	1TEF5
Socket Extensions	
⅜ in Drive Socket Extension, 6 in L	46C072
½ in Drive Socket Extension, 10 in L	46C017
¾ in Drive Socket Extension, 16 in L	46C048
9/16 in Drive Sliding Bar, 11 in L	46C010
13/16 in Drive Sliding Bar, 18 in L	46C031
Screwdrivers	
Cabinet Slotted	
3/16 in Tip, 6 ½ in L	8DH14
3/16 in Tip, 9 ½ in L	8DH15
¼ in Tip, 7 ½ in L	9AKP6
⅜ in Tip, 17 in L	8DH16
Breaker Bars	
½ in Drive, Hinged Handle, 12 inL	46C009
¾ in Drive, Hinged Handle, 18 inL	46C027
Monkey Wrenches	
Nickel Aluminum Bronze Handle Material	
Tether Capable	46C037
Tether Capable	46C101
Tether Capable	46C059
Aluminum Bronze Handle Material	
Tether Capable	1TEB4
Nickel Aluminum Bronze Handle Material	
Tether Capable	46C107
Aluminum Bronze Handle Material	
Tether Capable	1TEB5
Open End Wrenches	
6 x 7mm, 3 15/16 in L	46C102
6 x 8mm, 4 in L	21XW89
7 x 8mm, 5 in L	21XW93
7 x 9mm, 5 in L	21XW94
8 x 9mm, 5 in L	21XW95
9 x 10mm, 5 in L	21XW96
9 x 11mm, 5 in L	21XW97
10 x 12mm, 5 in L	4RPE3
10 x 13mm, 5 ¾ in L	21XW32
8 mm, 10 mm	46C103
10 mm, 11 mm	21XW31
Hand Ratchets	
⅜ in Drive Size	
⅜ in Drive, 7 ¼ in L	4RPY1
½ in Drive Size	
½ in Drive, 10 in L	1TEF6
¾ in Drive Size	
¾ in Drive, 18 in L	4RPJ8
Nut Drivers	
7 mm Hex, 8 7/16 in L	46C052
¼ in Hex, 6⅞ in L	46C068

Description	Item No.
31/100 in Hex, 6⅞ in L	46C015
19/50 in Hex, 7 7/16 in L	46C044
11/25 in Hex, 7 7/16 in L	46C062
Wire Wheel and Cup Brushes	
Crimped Wire Cup Brushes	
⅝" - 11 Arbor Hole, 3" Dia., 12,500 RPM	4RPR8
⅝ in - 11 Arbor Hole, 4" Dia., 8,000 RPM	4RPR9
Crimped Wire Arbor Hole Mount Wire Wheel Brushes	
⅝" Arbor Hole, 6" Dia., 20,000 RPM	46C021
Knotted Wire Cup Brushes	
⅝" - 11 Arbor Hole, 3" Dia., 12,500 RPM	4RPR6
⅝" - 11" Arbor Hole, 4" Dia., 7,000 RPM	4RPR7
⅝ in - 11 Arbor Hole, 6" Dia., 6,000 RPM	46C104
Knotted Wire End Brushes	
¼" Shank, 1" Dia., 20,000 RPM	46C041
Knotted Wire Arbor Hole Mount Wire Wheel Brushes	
⅝"-11 Arbor Hole, 4" Dia., 20,000 RPM	1TEB8
⅝ in -11 Arbor Hole, 6" Dia., 20,000 RPM	1TEB9
Crimped Wire End Brushes	
1" Dia, 20,000 RPM	21XU95
Crimped Wire Cup Brushes	
6" Dia, 6,000 RPM	21XU94
Scrapers	
Hand	
6¾" L x 6" W	4RPU3
7" L x 3" W	4RPT9
7" L x 4" W	4RPU1
7" L x 5" W	4RPU2
8½" L x 6" W	4RPT8
9" L x 3" W	4RPT5
9" L x 4" W	4RPT6
9" L x 5" W	4RPT7
Hand w/Handle	
3 ¾ in L x 3 ¾ in W, 19 in Overall L	1TEB2
Pick & Scaler	
17¾" L x 3" W	1TEB3
Spray Booth Scraper	
9 ¼ in L x 3 in W	4CZ93
Spatula	
Stiff, 5 in L Blade	2VJ18
Stiff, 9" L Blade	4DC03
Flexible, 14 in L Blade	8AFG5
Floor Scraper	
6 ¾ inL x 6 inW	4CZ98
Bricklayer Trowel	
5 ¼ in" W x 8½" L Blade, 5 in" L Handle	46C105
Cutting Tools	
Flat Head	
5 in Cutting Edg, 6 lb	2ZB22
5 in Cutting Edg, 8 lb	8TLL6
Pick Axe	
5 in Cutting Edg, 8.6 lb	8DFC0
5 in Cutting Edg, 8 lb	8TLL7
Hatchet	
3 ⅝ in Cutting Edg, 2.2 lb	9U689
Pike Pole	
w/D-Grip Handle, 48" L	9KJ72
w/Fiberglass Handle, 72" L	8TMP8
Mattock	
Mattock	
36 ¼ in L	46C033
Scoops	
8 in L x 3 in W x 2 in H	4RPN8
12 in L x 4 ⅞ in W x 3 ½ in H	4RPN9
14 in L x 5 ½ in W x 4 in H	4RPP1
Square Point Shovels	
D-Handle, 37 in L	2VJ17
Straight Handle, 58 in L	4RU46
Round Point Shovels	
D-Handle, 37 in L	2VJ16
Straight, 56 ½ in L	4RU45
Scoop Shovels	
D-Handle, 40 in L	6WU19
Long Handle, 60 ½ in L	8RJC5
Hoes	
Garden/Mixing Hoe, 4 in W x 6 in L Blade, 55 in Handle	1TDZ3
Garden/Mixing Hoe, 8 in W x 8 in L Blade, 55 in Handle	46C063
Planters/Mixing Hoe, 8 in W x 7 ¾ in L Blade, 55 in Handle	4RPP2

Description	Item No.
Screwdrivers	
#1 Phillips, 6 ½ in L	4CZ89
#2 Phillips, 7 ½ in L	4CZ88
#3 Phillips, 10 in L	4CZ91
#4 Phillips, 13 in L	8A979
⅛ in Slotted, 9 ½ in L	2VJ15
¼ in Slotted, 7 ½ in L	46C026
¼ in Phillips, 9 ½ in L	46C066
5/16 in Slotted, 6 ½ in L	4CZ94
5/16 in Slotted, 10 in L	4CZ95
⅜ in Slotted, 13 in L	4CZ96
⅜ in Slotted, 17 in L	4CZ97
Hex Keys	
SAE	
1/16 in, 1 ¾ in L	4RNU8
5/32 in, 2 ½ in L	4RNV3
3/16 in, 2 ⅞ in L	4RNV4
5/16 in, 4 ⅛ in L	4RNV7
⅜ in, 4 5/16 in L	4RNV8
½ in, 5 ¼ in L	4RNV9
⅝ in, 6 ¼ in L	4RNW1
¾ in, 7 ¼ in L	4RNW3
Hammers	
Curved Claw Hammers	
1 lb. Head, 14 in L	3NY48
1½ lb. Head, 14 in L	9VXZ7
Ball Pein Hammers	
¼ lb. Head, 9 ¾ in L	9DZ45
¾ lb. Head, 14 in L	8PDE9
1 lb. Head, 14 in L	2VE98
1½ lb. Head, 14 in L	3NY46
2 lb. Head, 14 in L	3NY47
2 ½ lb. Head, 14 in L	9CXL0
Double Face Steel Engineering Hammers	
2 lb Head, 14 in L	3NY49
3 lb Head, 14 in L	2VE99
3 lb Head, 14 in L	3NY50
Double Face Engineers Hammers	
3 lb Head, 14 in L	46C007
Hammer/Claw Crate Opener	
9 in L	4CZ63
Pliers	
7 in High Leverage Diagonal Cutting Plier	2VJ14
7 in Long Nose Plier	4CZ86
Deluxe Cushion	
8 ½ in Linemans Plier, Cable & Nail Cutter	1TEB1
6 ½ in Slip Joint Pliers	4RPK2
8 in Slip Joint Combination Pliers	4CZ84
10 in Tongue and Groove Pliers	4CZ87
12 in Tongue and Groove Pliers	4CZ85
Combination Wrenches, 12 Pt., 15 ° Offset	
SAE	
Head ⅜ in, 6 ¼ in L	5MM05
Head ½ in, 7 ½ in L	4DC17
Head 9/16 in, 8 in L	4DC18
Head ⅝ in, 8 ¾ in L	4DC19
Head 11/16 in, 9 ¼ in L	5MM07
Head ¾ in, 10 ¾ in L	4DC20
Head 13/16 in, 11 ¾ in L	46C034
Head ⅞ in, 11 ¾ in L	4DC21
Head 15/16 in, 9 ½ in L	5MM08
Head 1 in, 14 in L	4DC22
Head 1 ⅛ in, 15 ¾ in L	4DC23
Head 1 3/16 in, 15 ¾ in L	46C035
Head 1 1/16 in, 14 in L	5MM09
Head 1 ¼ in, 17 in L	5MM10
Head 1 5/16 in, 17 in L	4RNZ8
Head 1 ⅜ in, 19 in L	4RNZ9
Head 1 7/16 in, 19 in L	4RPA1
Head 1 ½ in, 19 in L	4RPA2
Head 1 ⅝ in, 20 ¾ in L	4RPA3
Head 1 11/16 in, 22 ¾ in L	4RPA4
Head 1 13/16 in, 22 ¾ in L	46C046
Head 1 ¾ in, 22 ¾ in L	4RPA5
Head 2 in, 22 ¾ in L	4RPA6
Head 2 ⅜ in, 22 ¾ in L	4RPA8
Adjustable Wrenches	
15/16 in, 6 in L	4DC24
1 ⅛ in, 8 in L	4DC25
1 5/16 in, 10 in L	4DC26
1 ½ in, 12 in L	4DC27
1 11/16 in, 15 in L	4RNU7
Drum Wrenches	
Bung/Drum Plug (Fits ¾ and 2 in Plugs)	2VJ22
Drum Bung Wrench, Offset Handle	4DC15
Aluminum Bronze Handle Material	
8 in L	8W815
10 in L	4RPC2
14 in L	4DC07
18 in L	4DC08
24 in L	4DC10
36 in L	4RPC5
48 in L	8ADX7
Aluminum Handle Material	
10 in L	4RPC3
14 in L	4RPC4
18 in L	4DC09
24 in L	4DC11
36 in L	4RPC6
48 in L	8RF38
Wire Brushes	
Flat Back, 7 ¼ in L	2ZB24
Toothbrush Style, 7 ⅞ in L	2ZB30
Curved Handle, 10 in L	4CZ57
Curved Handle, 13 ¾ in L	4CZ58
Tin Snips	
8 in Straight	4RPP3
Knives	
Common, Sheepsfoot, 6¾ in L	2ZB27
Common, Butcher, 10¼ in L	4RPR3
Putty Knives	
3 ⅜ in, Stiff	8CEZ6
3 9/16 in, Stiff	4CZ73
4 in, Stiff	4CZ72
4 in, Stiff	1GXK5
4 ½ in, Flexible	4CZ74
Deck Scrapers	
4 ⅝ in Blade	4CZ90

Wire Brush 4CZ57

Putty Knife 4CZ72

MRI Nonmagnetic Tools

Magnetic steel tools have the ability to be unexpectedly launched through the air causing serious injuries and significant damage to expensive MRI equipment. Using MRI-certified nonmagnetic tools helps protect employees and equipment for maintenance and repair work.

Drain Line Cap. I.D. (in.)	Cable Size	Max. Run	Voltage	Includes	Brand	Mfr. Model	Item No.
Closet Augers							
Battery Powered M12 Drain Snake							
2 to 4	½ in x 6 ft	6 ft	12.0 V	—	Milwaukee	2576-20	54DM16
Battery Powered M12 TRAPSNAKE							
2 to 4	½ x 6 ft	6 ft	12.0 V	6 ft Toilet Auger, Battery Charger, REDLITHIUM Battery	Milwaukee	2576-21	54DM18
1 ¼ to 2 / 2 to 4	Toilet Auger ½ in x 6 ft, Urinal Auger ⅜ in x 4 ft	4 ft, 6 ft	12.0 V	4 ft Urinal Auger, 6 ft Toilet Auger, Battery Charger, REDLITHIUM Battery	Milwaukee	2577-21	54DM19
1¼ to 2	⅜ in x 4 ft	4 ft	12.0 V	4 ft Urinal Auger, Battery Charger, REDLITHIUM Battery	Milwaukee	2574-21	54DM20
Hand Powered							
—	½ in	3	—	—	Ridgid	59787	4CX10
Up to 2	⅜ in	4	—	—	Milwaukee	49-16-2574	54DM15
Up to 2	½ in	6	—	—	Ridgid	56658	476G21
Up to 2	½ in	6	—	Toilet Auger, Bulb Auger, C-Cutter, Storage Ring, Storage Bag	Ridgid	56663	476G22
Up to 4	½ in	6	—	—	Milwaukee	49-16-2576	54DM14
Combination Urinal Auger and Shower Drain Auger							
Hand Powered							
Up to 2	⅜ in	4	—	—	Ridgid	46683	31XN16
Urinal Augers							
Battery Powered M12							
1¼ to 2	⅜ in x 4 ft	4 ft	12.0 V	—	Milwaukee	2574-20	54DM17

54DM18

476G21

Closet, Urinal, and Drain Augers

Auger helps for unclogging toilets, floor traps and aids in blockage removal. Flexible cable resists kinking and has an Integrated locking device, holding cable in place for easy telescoping extension. Milwaukee units feature electronically controlled rpm and torque power for tough clogs in tight traps. 31XN16 combination auger has left-hand wound cable with C-cutter head.

6ATX9

Hand Spinners

Clean drain lines up to 1½ in.

Description	Item No.
Hand Spin Drain Cleaner	6ATX9
Manual/Power Drain Cleaner	6ATY1

Drain Cleaning Guns

Durable 2-pc. steel canister has an interchangeable inner drum for easy cable changes. Soft start. A slide-action chuck. Single-action feed automatically extends the cable down the pipe. Cable can be retrieved without reversing the drill motor.

6DNX7

22XP35

422W07

Chuck Type	Drain Line Cap. I.D. (in.)	Includes	Max. Run (ft.)	Brand	Mfr. Model	Item No.
Corded						
Manual	¾ to 2 ½	AUTOFEED, C-1IC 5/16 in x 25 ft Cable	50	Ridgid	35473	6DNX7
Manual	¾ to 2 ½	C-1IC Cable, 4CX08	50	Ridgid	36013	6DNX8
Manual	¾ to 2 ½	A-1-3 Pin Key, C-1IC Cable, C-21 Cable, C-6 Cable, C-6429 Carrying Case, T-203 Bulb Auger, T-205 in C in Cutter, T-210 Spade Cutter, T-217 Drop Head Auger	50	Ridgid	36028	6DNX9
Slide Action	¾ to 2½	⅜ in × 35 ft (CE-3/8-35), 5/16 in x 50 ft (CE-5/16-50), Bulb Auger (BA-5/8), C-Cutter (CC-5/8), Cables: Inner Core Cable 5/16 in x 25 ft (CS-5/16-25), Carrying Case, Drop Head Auger (DH-5/8), Pair of Leather Gloves, Spade Cutter (SC-5/8), Tools: Coupling Pin Key (PK-5/8)	50	Westward	22XP37	22XP37
Slide Action	¾ to 2½	Cable Feeder, Carrying Case, Inner Core Cable 5/16 in x 25 ft (CS-5/16-25), Pair of Leather Gloves	50	Westward	22XP35	22XP35
Slide Action	¾ to 2½	⅜ in x 35 ft Cable with Inner Drum, 5/16 in x 25 ft Inner Core Cable with Inner Drum, C-1IC, C-6, Carrying Case	35	Ridgid	36023	38HY60
Slide Action	2½	Carrying Case, Inner Core Cable 5/16 in x 25 ft (CS-5/16-25), Pair of Leather Gloves	50	Westward	22XP36	22XP36

Includes	Drain Line I.D. Size Range	Max. Run	Mfr. Model	Item No.
Cordless Milwaukee M12 Battery, Bare Tool				
5 gal Storage Bucket, Bulb Cable with Drum	1¼ in to 2½ in	25 ft	2571-20	54DM02
Cordless Milwaukee M12 Battery				
5 gal Storage Bucket, Battery Charger, Bulb Cable with Drum, Drain Gun, REDLITHIUM Battery	1¼ in to 2½ in	25 ft	2571-21	54DM03
Cordless Milwaukee M18 Fuel				
Battery Charger, Case, Head Cable, Inner Core Bulb, M18 REDLITHIUM 2.0Ah Compact Battery	1 ¼ in to 4 in	50 ft	2772A-21	422W06
(4) Cable Attachments , 1 in C-Cutter, 1 in Spade Bit, Battery Charger, Case, Inner Core Bulb Head Cable,(1) 5/16 in x 35 ft Inner Core Coupling Cable with RUST GUARD Plating, M18 REDLITHIUM XC Battery, Pin Key, Small Bulb Head, Small Drop Head	1 ¼ in to 4 in	50 ft	2772B-21XC	422W07
Cordless Milwaukee M18 Fuel Switch Pack				
5/16 in X 75 ft Inner Core Bulb Head Cable with RUST GUARD Plating, Anchor Cable, Battery Charger, M18 REDLITHIUM Battery	1 ¼ in to 4 in	100 ft	2775A-211	422W08
(4) Cable Head Attachments with Rust Guard Plating, 1 ½ in C-Cutter, 1 ½ in Spade Bit, ⅜ in x 50 ft Inner Core Coupling Cable, Anchor Cable, Battery Charger, Inner Core Coupling Cable with RUST GUARD Plating, M18 REDLITHIUM Battery, Medium Drop Head, Medium Funnel, Pin Key	1 ¼ in to 4 in	100 ft	2775B-211	422W09
(2) ½ in x 50 ft Inner Core Coupling Cables with RUST GUARD Plating, (2) M18 REDLITHIUM Battery, (2) Switch Pack Drums with Anchor Cable, (4) Cable Head Attachments, 1½ in C-Cutter, 1½ in Spade Bit, Battery Charger, Medium Drop Head, Medium Funnel, Pin Key	1 ¼ in to 4 in	100 ft	2775C-222	422W10
Battery Charger, M18 REDLITHIUM Battery, Switch Pack Drum with Anchor Cable	1 ¼ in to 4 in	100 ft	2775-211	422W12

422W16

Air Drain Cleaning Guns

Clears clogged drains while leaving fixtures and drain covers intact. Power air flushes water out of pipes, removes grease and sludge from pipe walls. For 1" to 4" drain lines. Provides variable pressure dial control, allowing maximm force to clear drain lines up to 35 ft. or less forceful power for use on delicate pipe systems.

Drain Line Capacity I.D.	Includes	Max. Run	Max. PSI	Mfr. Model	Item No.
M12 Airsnake Drain Cleaning Gun Kit					
1 ¼ in to 4 in	(3) Straight Connectors, 1 in to 4 in Drain Plug, 15° Offset Connector, Battery Charger, Case, Drain Shroud Attachment, M12 Airsnake10 in Extension, M12 REDLITHIUM 2.0Ah Compact Battery, Toilet Seal Attachment	35 ft	50 psi	2572B-21	**422W16**
Air Gun Extension					
	Air Gun Extension 10 in			48-53-2570	**422W17**

4CX15

Water Jetters

Propels a highly flexible hose through soap, sludge, and grease blockages. Two pulse actions push the hose through difficult bends and traps. Corrosion-resistant pump with forged brass head minimizes leaks. Pressure control value allows quick and easy pressure adjustment while power scrubbing, flushing out debris, and restoring drain lines back to free-flowing capacity. 13C596 includes two-wheeled cart, easily fits through most standards size doors and maneuvers with ease.

Drain Line I.D. Size Range	Max. Run	HP	Jet Pressure	Flow Rate	Power Source	Includes	Mfr. Model	Item No.
1 ¼ in to 4 in	200 ft	2 hp	1,750 psi	1.4 gpm	Electric Motor	(4CW98) ½ in x 110 ft Jet Hose, 50 ft x ⅛ in (15.2 m x 3.2 mm) Sink Trap Hose, Cart with Hose Reel, H-41 ⅛ in NPT Nozzle, H-42 ⅛ in NPT Nozzle, H-44 ⅛ in NPT Nozzle, H-51 ¼ in NPT Nozzle, H-52 ¼ in NPT Nozzle, Nozzle Cleaning Tool, Nylon Storage Bag	62697	**4CX15**
1 ¼ in to 6 in	200 ft	6.5 hp	2,200 psi	2.4 gpm	Gas Engine	(5) Nozzles: H-61, ½ in x 35 ft Wash Hose, ¼ in x 110 ft Jet Hose, 3/16 in x 75 ft Jet Hose, FV-1 Foot Valve, H-62, H-64, H-71, H-72, Nozzle Cleaning Tool	63882	**2RPC8**
2 in to 10 in	300 ft	16 hp	3,000 psi	5.5 gpm	Gas Engine	200 ft x ⅜ in ID Jet Hose, 50 ft x ⅜ in ID Jet/Wash Hose, FV-1 Foot Valve, H-111 ¼ in NPT Nozzle, H-112 ¼ in NPT Nozzle, H-38 Hose Reel, HW-30 Wash Wand, Nozzle Cleaning Tool	37413	**13C596**

7DD56

1EZ18

Drain Cleaning Machines

Drum Machines—Have high-torque, long-running motors that combine with durable cables and cutters to eliminate blockages. Inner drum minimizes the potential of the cable flipping. Universal motor automatically slows cable and increases torque when met with obstructions.

Sectional Machines—Feature high-speed cutting action that allow you to drill through drain blockages quickly. Push the handle down and the cable spins at 710 rpm. Release the handle and the cable stops instantly.

Note: To order additional cable see page 863. Additional drums and cable sizes are available; call 1-800-GRAINGER (472-4643). Accessories available at Grainger.com.

Drain Line I.D. Size Range	Max. Run	Maximum Drum Capacity	Includes	HP	Brand	Mfr. Model	Item No.
Drum Machines							
¾ in to 1½ in	30 ft	—	Clear Cover, Hose Extension	¼	Ridgid	55808	**476G23**
¾ in to 2½ in	35 ft	35 ft of 5/16 in Cable	5/16 in x 35 ft Inner Core Speed Bump Cable With Bulb Auger and Inner Drum, Autofeed With Guide Hose, Mounting Bracket	⅛	Ridgid	71722	**5LC09**
¾ in to 4 in	100 ft	100 ft of ⅜ in Cable, 90 ft of ½ in Cable	(1VUZ9) Coupling Pin Key, (1VXC6) 1⅛ in Bulb Auger, (1VXD1) 1⅜ in C-cutter, (1VXD5) 1⅜ in Grease Cutter, (6A649) ⅜ in x 75 ft Inner Core Cable, Pair of Gloves	1/12	Ridgid	53117	**4CX03**
	200 ft	—	13 ft Guide Hose	9/16	Rothenberger	72869V	**53RF35**
1 ½ in to 2 ½ in	75 ft	100 ft	1⅛ in Bulb Auger, 1⅜ in Grease Cutter, 1⅞ in C Cutter, ⅜ in dia x 75 ft Solid Core Cable, Pair of Leather Work Gloves, Pin Key, Tool Box	⅓	Westward	22XP39	**22XP39**
1½ in to 4 in	75 ft	100 ft of ⅜ in Cable, 75 ft of ½ in Cable	½ in x 75 ft Integral Wound Solid Core Cable, 4CW97 Tool Set Consisting Of 1⅛ in Bulb Auger, 1⅜ in C-cutter, 1⅜ in Grease Cutter and Coupling Pin Key	⅓	Ridgid	26998	**2AER5**
	100 ft	100 ft of ⅜ in Cable, 75 ft of ½ in Cable	C-32 IW ⅜ in x 75 ft Solid Core (Integral Wound) Cable, Drain Cleaning Gloves, Instructional Video, K-400 Machine, Operators Manual, T-260 Tool Set	⅓	Ridgid	52363	**45MJ52**
	100 ft	100 ft of ⅜ in Cable, 75 ft of ½ in Cable	½ in x 75 ft Solid Core Cable, AutoFeed Control, Tool Set	⅓	Ridgid	27013	**40GL42**
	100 ft	100 ft of ⅜ in Cable, 75 ft of ½ in Cable	⅜ in x 75 ft IW Cable, T-260 Tool Set	⅓	Ridgid	27008	**40GL54**
3 in to 4 in	75 ft	75 ft	1⅛ in Bulb Auger, 1⅜ in Grease Cutter, 1⅞ in C Cutter, ½ in dia X 75 ft Solid Core Cable, Pair of Leather Work Gloves, Pin Key, Tool Box	⅓	Westward	22XP38	**22XP38**
3 in to 8 in	200 ft	100 ft of ¾ in Cable, 125 ft of ⅝ in Cable	(1VXE7) Spear Blade Cutter, (1VXE8) Retrieving Auger, (1VXF1) 2 in Double Cutter, (1VXF2) 3 in Double Cutter, (1VXF4) 4 In Double Cutter, (4CW83) ¾ in x 100 ft Inner Core Cable, Pair of Gloves	½	Ridgid	K-750/42007	**1ATH5**
3 in to 6 in	200 ft	100 ft of ⅝ in Cable	(1VXE7) Spear Blade Cutter, (1VXF1) 2 in, (1VXF2) 3 in, (1VXF4) 4 in Double Cutters, 2 Reclining Legs, ⅝ in x 100 ft Integral Wound Cable, ⅝ in x 2 ft Trap Leader, Pair of Work Gloves, Tool box	4/10	Ridgid	93557	**3FE63**
3 in to 8 in	200 ft	100 ft of ¾ in Cable, 125 ft of ⅝ in Cable	100 ft x ⅝ in Cable	½	Ridgid	47047	**40GL57**
3 in to 10 in	250 ft	100 ft of ¾ in Cable, 125 ft of ⅝ in Cable	(1VXE6) 3 in P-trap Cutter, (1VXE7) Spear Blade Cutter, (1VXE8) Retrieving Auger, (1VXE9) Spiral Sawtooth Cutter, (1VXF1) 2 in Double Cutter, (1VXF2) 3 in Double Cutter, (1VXG2) ¾ in x 2 ft Flexible Leader, Hex Key, (4CW83) ¾ in x 100 ft Inner Core Cable, 4 in Double Cutter Blade Only, 6 in Double Cutter Blade Only, Pair of Gloves, Tool Box	4/10	Ridgid	60052	**4CX14**
4 in to 8 in	125 ft	100 ft of ¾ in Cable	Tool Set with 13/4 in Spear Blade, 1½ in Retrievable Auger, 2 in Double Cutter, 3 in Double Cutter, 4 in Double Cutter, Pin Key, Cable Feeder and Cable Guide, Tool Box, Pair of Leather Work Gloves, Inner Core Cable ¾ in x 100 ft	⅔	Westward	7DD56	**7DD56**
Sectional Machines							
¾ in to 4 in	100 ft	—	Machine Only	1/6	Ridgid	58920	**2RPC7**
1¼ in to 4 in	100 ft	35 ft of ⅜ in Cable, 50 ft of 5/16 in Cable	(1VUZ8) Left Leather Mitt With Steel Studs, (1VUZ9) Coupling Pin Key, (1VXA1) Adapter With 5/16 in x 25 ft Cable With Bulb Auger, (1VXB1) Adapter With ⅜ in x 35 ft Cable With Bulb Auger, (1VXC4) 5 in Straight Auger, (1VXC6) 1⅛ in Bulb Auger, (1VXD1) 1⅜ in C-cutter, (1VXD5) 1⅜ in Grease Cutter, 6 Sections of (6X908) ⅝ in x 7½ ft Sectional Cable, Cable Carrier	1/6	Ridgid	59000	**4Z249**
	100 ft	35 ft of ⅜ in Cable, 50 ft of ⅝ in Cable	A-1 Left-Hand RIDGID Drain Cleaning Mitt in the A-30 Kit, A-10 Cable Carrier, A-13 Coupling Pin Key, A-14-6 Rear Guide Hose, K-50 Drain Cleaning Machine, Operators Manual, Rigid Sectional Machine, T-201 Straight Auger, T-211 Spade Cutter	1/6	Ridgid	58960	**40GL50**
	150 ft	—	(5) 15 ft Sections Of ⅞ in Cable, Cable Carrier, Funnel Auger, Operators Mitt, Pin Key, Rear Guide Hose, Retrieving Auger, Sharktooth Cutter, Spade Cutter, Straight Auger, Tool Box	½	Ridgid	66497	**1XDX9**
2 in to 8 in	200 ft	—	(1VUZ8) Left Leather Mitt with Steel Studs, (1VXC2) 2½ in Sawtooth Cutter, (1VXC3) Straight Auger, (1VXD9) Funnel Auger, (1VXE2) Funnel Retrieving Auger, (1VXE4) 2½ in Grease Cutter, (1VXG4) 3 in Sharktooth Cutter, 12 ft Rear Guide Hose, 2 Cable Carriers, 2 Hex Keys, 7 Sections of (2W354) 1¼ in x 15 ft Sectional Cable (For Total of 105 ft), Coupling Pin Key, Tool Box	¾	Ridgid	23712	**1EZ18**
	200 ft	—	(1VUZ8) Left Leather Mitt with Steel Studs, (1VXC2) 2½ in Sawtooth Cutter, (1VXC3) Straight Auger, (1VXD9) Funnel Auger, (1VXE2) Funnel Retrieving Auger, (1VXE4) 2½ in Grease Cutter, (1VXG4) 3 In Sharktooth Cutter, 12 ft Rear Guide Hose, 2 Cable Carriers, 2 Hex Keys, 7 Sections of (2W354) 1¼ in x 15 ft Sectional Cable (For Total of 105 ft), Coupling Pin Key, Tool Box	¾	Ridgid	23717	**3Z748**

RIDGID WESTWARD Milwaukee

Drain Cleaning Cables and Accessories

Description	Size	Mfr. Model	Item No.
Ridgid			
For Use with 1ATH5, 3FE63, and 4CX14			
3 Blade Cutter	2 in W	92535	**1VXF6**
	3 in W	92540	**1VXF8**
Autofeed Assembly	—	43642	**1VUZ7** *
Bulb Auger	1¾ in	51762R	**1VXC1**
Double Cutter	2 in W	92510	**1VXF1**
	3 in W	92520	**1VXF2**
	4 in W	92525	**1VXF4**
Flexible Leader	¾ in x 2 ft	92560	**1VXG2**
Hollow Core Cable	⅝ in x 100 ft	58192	**1VUX1**
Inner Core Cable	⅝ in x 25 ft	92460	**1VUZ2**
	⅝ in x 50 ft	92465	**1VUZ4**
	⅝ in x 75 ft	92470	**1VUZ5**
	⅝ in x 100 ft	43647	**1VXH7**
	¾ in x 50 ft	92480	**4Z979**
	¾ in x 75 ft	41212	**1VXH6**
	¾ in x 100 ft	41697	**4CW83**
Integral Wound Cable	⅝ in x 100 ft	37643	**13C597**
P-Trap Cutter	3 in W	92485	**1VXE6**
Retrieving Auger	2 9/16 in	92500	**1VXE8**
Spade Cutter	1¾ in	92495	**1VXE7**
Spiral Saw Tooth Cutter	3 in W	92505	**1VXE9**
For Use with 1EZ18 and 3Z748			
Clutch Jaw Set	1¼ in	59320	**1VXB4**
Funnel Auger	2½ in	63105	**1VXD9**
Funnel Auger, Retrieving	4 in L	63195	**1VXE2**
Spade Cutter	2½ in W	63205	**1VXE4**
Spiral Saw Tooth Cutter	2½ in W	61970	**1VXC2**
	3 in W	98035	**1VXG4**
	4 in W	98040	**1VXG6**
Straight Auger	1 in W	62840	**1VXC3**
For Use with 2AER4, and 2AER5			
Guide Hose	—	26778	**2AER7**
For Use with 4CX03			
Autofeed Assembly	—	60087	**1VXB7**
For Use with 4CX03, 2AER4, 2AER5			
Inner Core Cable w/Bulb Auger	5/16 in x 25 ft	56782	**4CX08**
Inner Core Cable w/Male Coupling	⅜ in x 50 ft	37842	**1VXH3**
	⅜ in x 75 ft	37847	**6A649**
	⅜ in x 100 ft	37852	**1VXH4**
	½ in x 50 ft	37857	**1VXH5**
	½ in x 75 ft	37862	**4CW70**
Solid Core Cable w/Male Coupling	⅜ in x 75 ft	87582	**6NZ27**
	½ in x 75 ft	87597	**6NZ28**
For Use with 4Z249 and 1XDX9			
Cable Adapter w/Bulb Auger	5/16 in x 25 ft	59250	**1VXA1**
	⅜ in x 35 ft	59255	**1VXB1**
Clutch Jaw Set	—	59450	**1VXB5**
Coupling Pin Key for ⅜ Cable	—	59230	**1VUZ9**
Drain Cleaning Mitt, Left Hand	—	59205	**1VUZ8**
Drain Cleaning Mitt, Right Hand	—	59295	**1VXB3**
Sectional Cable	⅝ in x 7 ½ ft	62270	**6X908**
	⅝ in x 7 ½ ft	62265	**1VUX7**
	⅝ in x 10 ft	51317	**1VXH8**
	⅞ in x 15 ft	62275	**1VUX8**
	1 ¼ in x 15 ft	62280	**2W354**
For Use with 5LC09, 4MY89, 4Z661, 2ZB61, and 4Z249			
Bulb Auger	⅞ in W	63000	**1VXC8**
	1⅛ in W	62995	**1VXC6**
C Cutter	1⅜ in W	63005	**1VXD1**
Drop Head Auger	4 in L	63065	**1VXD7**
Funnel Auger	3 in L	63010	**1VXD3**
Hollow Core Cable w/Bulb Auger	5/16 in x 50 ft	89400	**1VUY7**
	5/16 in x 25 ft	62225	**1VUX3**
	⅜ in x 35 ft	62250	**1VUX5**
Hollow Core Cable w/ Drop Head Auger	5/16 in x 25 ft	62235	**1VUX4**
	5/16 in x 50 ft	89405	**1VUY9**
Hollow Core Cable w/Male Coupling	⅜ in x 35 ft	62260	**1VUX6**
Inner Core Cable w/Drop Head Auger	5/16 in x 25 ft	56787	**1VUW8**
	5/16 in x 35 ft	56797	**1VUW9**
Inner Core Cable w/Male Coupling	⅜ in x 25 ft	62245	**6X907**
Spade Cutter	1⅜ in W	63035	**1VXD5**
Straight Auger	5 in L	62990	**1VXC4**

*** Works only on 1ATH5 Drain Cleaning Machine, sold on page 862.***

3-Blade Cutter
1VXF6

P-Trap Cutter
1VXE6

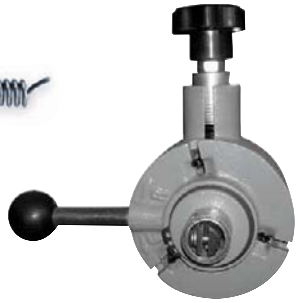
Spiral Sawtooth Cutter
1VXE9

Bulb Auger
1VXC6

Hollow Core Cable w/Bulb Auger
1VUX5

Inner Core Cable w/Drop Head Auger
1VUW8

Straight Auger
1VXC4



Autofeed Assembly
22XP41

Description	Size	Mfr. Model	Item No.
Westward			
For Use with 22XP35, 22XP36, and 22XP37			
Bulb Auger	⅞ in D x 3⅞ in L	—	**22XP46**
Drop Head Auger	⅞ in D x 3½ in L	—	**22XP47**
Hollow Core Cable	5/16 in x 50 ft	—	**22XP44**
	⅜ in x 35 ft	—	**22XP43**
Inner Core Cable w/Bulb Auger	5/16 in x 25 ft	—	**22XP42**
Spade Cutter	1 in D x 1½ in L	—	**22XP53**
For Use with 22XP38 and 22XP39			
Autofeed Assembly	13 ¾ x 7 ½ x 4 5/16 in	—	**22XP41**
Bulb Auger	1⅛ in D x 3⅞ in L	—	**22XP50**
C-Cutter	1⅛ in D x 1⅜ in L	—	**22XP51**
Coupling Pin Key	⅝ in	—	**22XP54**
Inner Core Cable	⅜ in x 75 ft	—	**22XP48**
	½ in x 75 ft	—	**22XP56**
Spade Cutter	1⅜ in D x 1⅞ in L	—	**22XP52**
For Use with 22XP40 and 7DD56			
Autofeed Assembly	4 11/16 in x 11 in x 9 ⅛ in	49U741	**49U741**
For Use with 6ATX9 and 6ATY1			
Hollow Core Cable	5/16 in x 35 ft	—	**6ATY0**
For Use with 7DD56 and 22XP40			
Coupling Pin Key	⅞ in	—	**22XP55**
Double Cutter	2 in D X 2⅞ in L	—	**22XP60**
	3 in D X 3⅞ in L	—	**22XP61**
	4 in D X 5¼ in L	—	**22XP62**
Inner Core Cable	¾ in x 100 ft	—	**22XP57**
Retrieving Auger	1½ in dia X 5 in L	—	**22XP59**
Spade Cutter	1¾ in D x 2½ in L	—	**22XP58**

No. of Pieces	Description	Includes	Brand	Mfr. Model	Item No.
Drain Cleaning Accessories					
14	Cable Kit for 4Z249	A-1 Left Handed Mitt, A-10 Cable Carrier, A-13 Coupling Key, A-14-6 Rear Guide Hose, Six Sections C-8 Cable ⅝ in x 7 ½ ft, T-202 Bulb Auger, T-205 C Cutter, T-211 Spade Cutter, T201 Straight Auger	Ridgid	59365	**1VUX2**
5	Tool Kit for 5LC09, 4MY89, 4Z661, 4Z249, and 2ZB61	1 in Grease Cutter, 1⅜ in C Cutter, 4 in Long Drop-Head Auger, ⅞ in Bulb Auger, Coupling Pin Key	Ridgid	48482	**1VXB9**
5	Tool Set for 22XP38 and 22XP39	BA-5/8 Bulb Auger, CC-5/8 C-Cutter, DH-5/8 Drop Head Auger, PK-5/8 Coupling Pin Key, SC-5/8 Spade Cutter 1 in	Westward	—	**22XP49**
4	Tool Set for 22XP35, 22XP36, and 22XP37	BA-5/8-1 Bulb Auger, CC-5/8 C-Cutter, PK-5/8 Coupling Pin Key, SC-5/8-1 Spade Cutter 1⅜ in	Westward	—	**22XP45**
4	Tool Set for ⅜ in Cable	1⅛ in Bulb Auger, 1⅜ in C Cutter, 1⅜ in Spade Cutter, Coupling Pin	Ridgid	49002	**4CW97**
4	Tool Set for ½ in Cable	(4) Tools, 1¾ in Spade Cutter, 2½ in Knife Cutter, Coupling Pin Key, Funnel Auger	Ridgid	54992	**4CX04**
—	Switch Pack Drum For Use With All Brand Cables	—	Milwaukee	47-53-2775	**422W13**

Scan. Order. Done.
Details on page A1.

Camera Reel
6DNY3

NanoReel
Camera Reel
13C592

microReel
L100C/CA-300
26C164

Inspection
Camera
53RH22

Inspection
Camera
13G252

Inspection
Camera
53RF31

Camera Systems

RIDGID Milwaukee ROTHENBERGER

CAMERA REELS

Waterproof, 3-pin SeeSnake reels feature abrasion-resistant wrapped inner core with integrated power/video signal. Hardened stainless steel camera head spring assembly provides optimum durability. In-line transmitter is located behind camera head. Scratch-resistant lens cover is made of sapphire crystal. Rugged, high-intensity light provides exceptional viewing. Include footage counter on monitor and fiberglass push rod. Reels have metal frame, polyethylene drum, and centering guides. They're designed to create a custom inspection camera system based on specific applications, and work with monitors on this page. Self-leveling cameras provide clear images that stay upright.

MONITORS

Laptop Interface monitors work with SeeSnake reels to provide recording, monitoring, and reporting. Clean keys control pad lets you keep gloved hands off your laptop while controlling camera recording and operation. Battery power allows you to inspect when AC power is not available. Include SeeSnake HQ monitoring/recording software, AC power cable, and battery charger. SeeSnake HQ software lets you edit, archive, and deliver reports in print, on DVD, or online.

INSPECTION CAMERAS

Rigid—Handheld Inspection Camera 26C165 features pistol grip, 3 ft. RCA cable (video out), and 180° image rotation. 17mm aluminum camera head and cable are waterproof up to 10 ft. Includes 2.4" color LCD screen, 4 adjustable LEDs in camera head, hook, magnet, mirror, and case. Pipe Inspection Systems 26C163 and 26C164 include camera reel and CA-300 inspection camera. Feature monitoring capability and interchangeable drums. 26C163 includes rechargeable lithium-ion battery, 2 ball guides, and reel 6EEE0. 26C164 includes rechargeable lithium-ion battery, 2 ball guides, and reel 6DNY3.

Milwaukee—High-resolution color LCD and automatic shutoff. 12V lithium-ion battery and 30-min. quick charger included. Replacement battery and charger sold on page 681.

ROTHENBERGER—Multifunction ROSCOPE 1000 technology features 720 x 480 pixel resolution (JPEG) and 5-pin connection for previous Rothenberger modules to be used. Function keys are arranged for single hand use. Includes headset connection for personal audio commentary, lithium-ion battery for 3 to 5 hr. battery life, and SD card slot for storage.

Description	Pipe Cap.	Push Rod Length (ft.)	Camera Dia.	Brand	Mfr. Model	Item No.
Camera Reels						
microReel L100C (CA350) Camera Reel	1 ½ in to 4 in	100	0.98 in	Ridgid	35188	**6DNY3**
microDrain Camera Reel	1 ½ in to 3 in	65	0.86 in	Ridgid	37473	**6EEE0**
SeeSnake NanoReel Camera Reel	¾ in to 2 in	85	0.625 in	Ridgid	40008	**13C592**
SeeSnake rM200A Series with TruSense	1 ½ in to 8 in	—	1 in	Ridgid	63658	**793K40**
Monitors						
Digital Recording Monitor, 12.1094 in Monitor Size, Tool Only				Ridgid	CS12X	**53VA61**
Digital Recording Monitor, 12.1094 in Monitor Size, (2) Batteries & Charger Included				Ridgid	CS12X	**53VA62**
Inspection Cameras						
CA-25 Inspection Camera				Ridgid	40043	**26C165**
microDrain/CA350 Digital Pipe Inspection System				Ridgid	40788	**26C163**
microReel L100C/CA350 Digital Pipe Inspection System				Ridgid	40808	**26C164**
Image, Video				Ridgid	36848	**53RH21**
Audio, Image, Video				Ridgid	55898	**53RH22**
2.7 in Monitor Size						
M-12 Inspector Kit, Rotating LCD Screen, Shaft Length 36 in				Milwaukee	2313-21	**13G252**
M-12 Inspector Kit, Rotating LCD Screen, Shaft Length 9 ft				Milwaukee	2314-21	**13G256**
Inspection Cameras						
3 ft Shaft, 3.5 in Touchscreen Monitor, Bluetooth Connectable				Rothenberger	69608	**53RF31**
Accessories						
Interconnect Cable				Ridgid	33108	**4PCE7**

4ETA5

Pipe and Utility Locating Equipment

ROTHENBERGER RIDGID

Pipe/Cable/Sonde Locator—Locate inline transmitters, remote transmitters (sondes), and energized direct buried cables. Push-button readings up to 15 ft. depending on soil conditions and signal strength. Features weatherproof membrane buttons, speaker, low battery warning, and manual gain control.

NaviTrack Scout Sonde/Line Locator—Sends signals out in multiple directions to maintain contact with transmitters for fast, easy locating at depths of more than 15 ft. Use it to locate SeeSnake camera systems, so you can find the blockages that the camera is seeing, as well as to trace bare utility lines. Includes advanced search function, advanced map function, and depth measurement. Automatic or manual gain control.

SeekTech Line Locator—Lightweight, rugged receiver traces frequencies from 10 Hz to 35 kHz through just about any terrain. Target line and guidance arrows help quickly identify distortion.

SeekTech Line Transmitter—Energizes metallic lines for tracing with a locator. An easy-to-read LCD and an audio signal provide feedback that allows confirmation of a good circuit before beginning a trace.

Description	Includes	Brand	Mfr. Model	Item No.
Pipe/Cable/Sonde Locator, Up to 15ft. Depth	Batteries, Carrying Case, Operator's Manual	Rothenberger	69001	**4ETA5**
Pipe/Cable/Sonde Locator, Up to 8 ft. Depth	Carry Case	Rothenberger	69606	**53RF33**
NaviTrack Scout Sonde/Line Locator	Hard Plastic Carrying Case, Surface Markers and Clip, Instructional Video, Operator's Manual and Batteries	Ridgid	19238	**1VUT8**
SeekTech Line Locator	(4) C-Cell Batteries, Hard Carrying Case, Instructions, Marker Chips, Training CD	Ridgid	21893	**1DPH2**
SeekTech Line Transmitter	(2) 25 ft Coil Connectors, (8) C-Cell Batteries, Shoulder Strap and Instructions	Ridgid	21903	**1DPH4**

End Pipe, Cast Iron 4CW43

Pipe Wrenches

- Serrated jaws, unless where noted

Jaw Cap.	Overall Length	Handle Type	Brand	Item No.
Straight Pipe Wrenches				
Alloy Steel Handle Material				
1 in	10 in	I-Beam	Gedore	**53DU56**
1¼ in	12 in	I-Beam	Gedore	**53DU57**
2½ in	24 in	I-Beam	Gedore	**53DU60**
Aluminum Handle Material				
1½ in	10 in	I-Beam	Westward	**3MA10**
1½ in	10 in	I-Beam	Proto	**38WF23**
1½ in	10 in	I-Beam	Ridgid	**6A650**
1½ in	10 in	I-Beam	Rothenberger	**53RF16**
2 in	12 in	I-Beam	Westward	**3MA11**
2 in	12 in	I-Beam	Proto	**38WF24**
2 in	12 in	I-Beam	Ridgid	**6YJ41**
2 in	14 in	I-Beam	Westward	**3MA12**
2 in	14 in	I-Beam	Proto	**38WF25**
2 in	14 in	I-Beam	Ridgid	**6A651**
2 in	14 in	I-Beam	Rothenberger	**53RF18**
2½ in	18 in	I-Beam	Westward	**4YR90**
2½ in	18 in	I-Beam	Ridgid	**6A652**
2½ in	18 in	I-Beam	Rothenberger	**53RF19**
3 in	24 in	I-Beam	Westward	**4YR91**
3 in	24 in	I-Beam	Ridgid	**6A653**
3 in	24 in	I-Beam	Rothenberger	**53RF20**
3½ in	18 in	I-Beam	Proto	**38WF26**
4 in	24 in	I-Beam	Proto	**38WF27**
5 in	36 in	I-Beam	Westward	**1XJZ2**
5 in	36 in	I-Beam	Proto	**38WF28**
5 in	36 in	I-Beam	Ridgid	**6A654**
5 in	36 in	I-Beam	Rothenberger	**53RF21**
6 in	48 in	I-Beam	Westward	**6ATY3**
6 in	48 in	I-Beam	Ridgid	**4NV22**
6 in	48 in	I-Beam	Proto	**44ZJ68**
6 in	48 in	I-Beam	Rothenberger	**53RF22**
Cast Iron Handle Material				
¾ in	6 in	I-Beam	Proto	**3R411**
¾ in	6 in	I-Beam	Ridgid	**1XDY9**
¾ in	6 in	I-Beam	Westward	**39CG46**
1 in	8 in	I-Beam	Westward	**3LY96**
1 in	8 in	I-Beam	Proto	**3R412**
1 in	8 in	I-Beam	Ridgid	**4A497**
1 in	8 in	I-Beam	Gedore	**53DU62**
1½ in	10 in	I-Beam	Westward	**3LY97**
1½ in	10 in	I-Beam	Westward	**6ATY7**
1½ in	10 in	I-Beam	Proto	**3R413**
1½ in	10 in	I-Beam	Ridgid	**4A498**
1½ in	10 in	I-Beam	Gedore	**53DU63**
2 in	12 in	I-Beam	Westward	**3LY98**
2 in	12 in	I-Beam	Proto	**3R414**
2 in	12 in	I-Beam	Ridgid	**4CW42**
2 in	14 in	I-Beam	Westward	**3LY99**
2 in	14 in	I-Beam	Proto	**3R415**
2 in	14 in	I-Beam	Ridgid	**4A499**
2 in	14 in	I-Beam	Gedore	**53DU64**
2 in	14 in	I-Beam	Rothenberger	**53RF12**
2½ in	18 in	I-Beam	Westward	**4YR93**
2½ in	18 in	I-Beam	Ridgid	**4A500**
2½ in	18 in	I-Beam	Gedore	**53DU65**
2½ in	18 in	I-Beam	Rothenberger	**53RF13**
3 in	24 in	I-Beam	Westward	**4YR94**
3 in	24 in	I-Beam	Ridgid	**4A501**
3 in	24 in	I-Beam	Rothenberger	**53RF14**
3½ in	18 in	I-Beam	Proto	**3R416**
4 in	24 in	I-Beam	Proto	**3R417**
5 in	36 in	I-Beam	Westward	**1XJZ3**
5 in	36 in	I-Beam	Proto	**3R418**
5 in	36 in	I-Beam	Ridgid	**4A502**
5 in	36 in	I-Beam	Rothenberger	**53RF15**
6 in	48 in	I-Beam	Westward	**6ATY2**
6 in	48 in	I-Beam	Proto	**3R419**
6 in	48 in	I-Beam	Ridgid	**4NV21**
8 in	60 in	I-Beam	Proto	**36P245**
8 in	60 in	I-Beam	Ridgid	**1XDY8**
8 in	60 in	I-Beam	Westward	**39CG51**
Straight Pipe Wrench Sets				
Aluminum Handle Material				
1½ in,-2 in	10 in, 14 in	I-Beam	Westward	**4YR92**
Cast Iron Handle Material				
2 in,-2-1/2 in	12 in, 18 in	I-Beam	Westward	**4PL94**
Straight Pipe Wrenches, Tether Ready				
Alloy Steel Handle Material				
1½ in	10 in	Ergonomic	Milwaukee	**52XH81**
2 in	12 in	Ergonomic	Milwaukee	**52XH82**
2 in	14 in	Ergonomic	Milwaukee	**52XH83**
2½ in	18 in	Ergonomic	Milwaukee	**52XH84**
2½ in	24 in	Ergonomic	Milwaukee	**52XH90**
Aluminum Handle Material				
1½ in	10 in	Ergonomic	Milwaukee	**52XH85**
1½ in	18 in	Ergonomic	Milwaukee	**487R47**
2 in	12 in	Ergonomic	Milwaukee	**52XH86**
2 in	14 in	Ergonomic	Milwaukee	**52XH87**
2½ in	18 in	Ergonomic	Milwaukee	**52XH88**
3 in	24 in	Ergonomic	Milwaukee	**52XH89**
5 in	36 in	Ergonomic	Milwaukee	**487R45**
6 in	48 in	Ergonomic	Milwaukee	**487R46**
Cast Iron Handle Material				
¾ in	6 in	Ergonomic	Milwaukee	**487R34**
1 in	8 in	Ergonomic	Milwaukee	**487R35**
3 in	24 in	Ergonomic	Milwaukee	**487R36**
5 in	36 in	Ergonomic	Milwaukee	**487R42**
6 in	48 in	Ergonomic	Milwaukee	**487R43**
8 in	60 in	Ergonomic	Milwaukee	**487R44**
Ratcheting Pipe Wrenches				
Aluminum Handle Material				
2½ in	18 in	I-Beam	Ridgid	**4MY88**
Monkey Wrenches				
Alloy Steel Handle Material				
2⅓ in	9 in	I-Beam	Westward	**39CG48** *
3 in	11 in	I-Beam	Westward	**39CG45** *
3 1/10 in	14 ¾ in	I-Beam	Westward	**39CG44** *
Cast Iron Handle Material				
2⅝ in	12 in	I-Beam	Westward	**6ATY6** *
2⅝ in	12 in	I-Beam	Ridgid	**5FY89** *
Monkey Wrenches, Tether Ready				
Cast Iron Handle Material				
2⅝ in	12 in	Ergonomic	Milwaukee	**487R38** *
Swedish Pipe Wrenches				
Alloy Steel Handle Material				
1½ in	17 in	Plier-Type	Gedore	**53DU52**
Hex Pipe Wrenches				
Cast Iron Handle Material				
2 in	20 in	I-Beam	Ridgid	**40GL48** *
2⅝ in	9 ½ in	I-Beam	Westward	**6ATY4** *
2⅝ in	9 in	I-Beam	Ridgid	**4A504** *
Hex Pipe Wrenches, Tether Ready				
Cast Iron Handle Material				
2⅝ in	10 in	Ergonomic	Milwaukee	**487R37** *
End Pipe Wrenches				
Aluminum Handle Material				
2 in	14 in	I-Beam	Ridgid	**6YJ46** *
2½ in	18 in	I-Beam	Ridgid	**6YJ47**
2½ in	18 in	I-Beam	Westward	**39CG47**
Cast Iron Handle Material				
2 in	14 in	I-Beam	Westward	**6ATY5**
2 in	14 in	I-Beam	Ridgid	**4CW43**
2½ in	18 in	I-Beam	Ridgid	**4CW44**
2½ in	18 in	I-Beam	Westward	**39CG50**
Offset Pipe Wrenches				
Aluminum Handle Material				
2 in	14 in	I-Beam	Westward	**1XJZ7**
2 in	14 in	I-Beam	Ridgid	**1EZ15**
2 in	14 in	I-Beam	Rothenberger	**53RF23**
2½ in	18 in	I-Beam	Westward	**1XJZ8**
2½ in	18 in	I-Beam	Ridgid	**4CW45**
2½ in	18 in	I-Beam	Rothenberger	**53RF24**
3 in	24 in	I-Beam	Westward	**1XJZ9**
3 in	24 in	I-Beam	Ridgid	**1EZ16**
Offset Pipe Wrenches, Tether Ready				
Aluminum Handle Material				
2 in	14 in	Ergonomic	Milwaukee	**487R39**
2 in	18 in	Ergonomic	Milwaukee	**487R40**
3 in	24 in	Ergonomic	Milwaukee	**487R41**

**Smooth Jaw Texture*

Strap Wrench 5PV87

Chain and Strap Wrenches

Chain Tongs—Turn large-diameter pipe during heavy-duty applications. Designed and sized to provide extra leverage. 4CPE4 has a single-end tong. Double-end jaw styles can be reversed.

Chain Wrenches—Double jaw provides ratchet-like action in either direction.

Strap Wrenches—RIDGID tools have a woven nylon polyurethane-coated strap. Westward tools have a reinforced neoprene rubber strap.

Universal Chain Wrench—Forged steel handle has deep milled teeth. 6200-lb. chain capacity.

Minimum Pipe Diameter	For Outside Dia.	Overall Length	Brand	Item No.
Chain Tongs - Iron Handle Material				
1½ in	8 in	50 in	RIDGID	**4CPE5**
2 in	12 in	64 in	RIDGID	**4CPE6**
4 in	18 in	87 in	RIDGID	**4CPE4**
Chain Wrenches - Alloy Steel Handle Material				
⅛ in	4 in	12 in	Rothenberger	**53RF08**
⅛ in	6 ⅗ in	45 ¼ in	Rothenberger	**53RF09**
⅛ in	8 ⅗ in	50 in	Rothenberger	**53RF10**
⅛ in	12 in	64 in	Rothenberger	**53RF11**
2 in	4 in	12 in	Westward	**39CG43**
2 in	4 in	12 in	RIDGID	**3KHC2**
2 in	5 in	14 in	RIDGID	**4CW47**
2½ in	5 in	18 in	RIDGID	**4CW48**
3 in	5 in	24 in	RIDGID	**1EZ14**
3 in	5 in	24 in	Westward	**1XJZ4**
4½ in	7 ½ in	36 in	RIDGID	**1XDY7**
Chain Wrenches - Cast Iron Handle Material				
4½ in	7 ½ in	36 in	Westward	**39CG53**
Replacement Strap				
	—	29 ¼ in	RIDGID	**4CPE1**
Strap and Fittings Wrenches - Aluminum Handle Material				
	3 ½ in	12 in	Rothenberger	**53RF26**
	8 in	11 ¾ in	Gedore	**425R41**
	8 ½ in	12 in	Rothenberger	**53RF27**
Strap Wrenches - Aluminum Handle Material				
	3 ½ in	—	RIDGID	**4A505**
	5 ½ in	—	RIDGID	**4CPE2**
	7 in	—	RIDGID	**4CW49**
Strap Wrenches - Polypropylene Handle Material				
	4 in	25 in	Westward	**5PV87**
	12 in	44 ½ in	Westward	**5PV88**
Strap Wrench Set - Polypropylene Handle Material				
	4 in, 12 in	25 in, 44 ½ in	Westward	**5PV89**
Universal Chain Wrench - Alloy Steel Handle Material				
⅞ in	4 in	16 ½ in	Proto	**3R410**

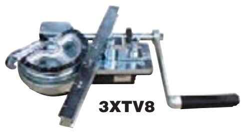
M12 53AY77

Cordless Press Tools

M12 M18

FORCE LOGIC delivers enhanced productivity by allowing you to cut, fasten, and connect using one interchangeable battery platform. Compact and light, these tools work on most major brands of fittings. In-line design provides access to nearly anywhere you can fit your arm. Brushless motor for 50,000 cycle calibration intervals and faster cycle time. Include 2 batteries and charger. 53AY77 includes 3 attachable jaws.

Press Tool Jaw/ Pipe Capacity	Crimping Force	Tool Length	Item No.
M18 FORCE LOGIC			
½ in to 4 in	3.6 ton	14 1/8 in	**60GF92**
½ in to 4 in	3.6 ton	14 1/8 in	**60GF93**
M12 FORCE LOGIC			
½ in to 1 ¼ in	2.7 ton	12 39/64 in	**53AY76**
½ in to 1 ¼ in	2.7 ton	12 39/64 in	**53AY77**
Accessories			
Press Jaw Kit, For Use With 53AY74, 53AY75, 60GF92, 60GF93, Includes (1) Hard Carrying Case, (1) Press Gauge, (6) Press Jaws			**788WJ8**



3XTV8

5MLV4

3CYP1

3CYU6

3CYV2

20UX03

Tubing Benders

Geared—For bending aircraft-grade stainless steel and all other metal tubing of bending temper. Calibrated angle markings from 0° to 180°. Worm gear with 50:1 ratio. Crank handle has revolving hand grip.

Ratcheting—High-geared mechanical ratios to bend heavy-wall steel tube, stainless steel tube, and hard copper water tube (types K and L). Produce uniform bends up to 180°. Calibrated at 15° from 0° to 180°.

Compound—Bend copper, brass, steel, and aluminum thin-wall tubing, soft wire, and rod 180° in a single action. Calibrated angle markings from 0° to 180° for left, right, and offset bends. 90° start angle.

Lever-Type—Make smooth, tight radius bends in soft copper and aluminum tubing up to 180°. Open side slips over tube at any point. No scoring or flattening of tubing. Calibrated to show angle of bend. Nonslip grip handle.

Foot-Operated—20UX03 programmable tube bender shapes material while reducing delays with extremely fast automatic bending. Runs on 220V with single-phase power and bends up to 2.5" tubing and 2' schedule 40 pipe. Stores up to 170 internal programs of 10 bends each and has unlimited storage memory. Touch screen or foot-pedal operates the bender when not in manual mode. 20UX05 low pressure system runs on 220V with 3-phase power bends pipe up to 206° without stopping or ratcheting. Foot-operated pedal lets you control the bender at variable speed. Feature digital auto-stop lets you choose the desired bend degree for easy and accuracy. Handles a maximum capacity of 3" schedule 40 pipe, 3" square, and 3.5" round tube.

Outside Dia. Tubing (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Geared				
¼ in, 5⁄16 in, ⅜ in, ½ in, ⅝ in, ¾ in	16 in	Imperial	600-F	**3XTV8**
Ratcheting				
⅞ in	28 in	Ridgid	35180R	**1VTT8**
¾ in	28 in	Ridgid	35175	**1VTT7**
⅝ in	22 in	Ridgid	35170	**1VTT6**
⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in	15 in	Rothenberger	23022X	**5MLV4**
¼ in, 5⁄16 in, ⅜ in, ½ in	10 in	Rothenberger	24134	**6XGA9**
Compound				
¼ in, 5⁄16 in, ⅜ in	11 ¼ in	Westward	—	**3CYP1**
¼ in, 5⁄16 in, ⅜ in	8 5⁄16 in	Westward	—	**3CYT2**
3⁄16 in, ¼ in, 5⁄16 in, ⅜ in	11 ¼ in	General	153	**3ZH01**
3⁄16 in, ¼ in, 5⁄16 in, ⅜ in	10 ½ in	Imperial	470-FHC	**3XTW3**
Lever-Type				
¾ in	32 ¼ in	Imperial	364-FHA-12	**3XTW5**
⅝ in	29 in	Imperial	364-FHA-10	**3XTW4**
½ in	19 in	Imperial	364-FHB-08	**5MK30**
½ in	19 in	Westward	—	**3CYU9**
½ in	17 in	Ridgid	36132	**4A522**
½ in	16 ⅛ in	Ridgid	38048	**6PFF2**
½ in	18 ½ in	Imperial	364-FHA-08	**40AW07**
½ to ⅞ in	30 in	Rothenberger	90614	**53RE82**
⅜ in	16 ⅛ in	Ridgid	38043	**6PFF1**
⅜ in	14 in	Imperial	364-FHB-06	**5MK29**
⅜ in	12 in	Rothenberger	25151	**53RE81**
⅜ in	14 in	Westward	—	**3CYU8**
⅜ in	13 in	Ridgid	36097	**4A521**
⅜ in	13 ½ in	Imperial	364-FHA-06	**40AW05**
5⁄16 in	10 in	Imperial	364-FHB-05	**5MK28**
5⁄16 in	7 ½ in	Westward	—	**3CYU7**
¼ in	16 ⅛ in	Ridgid	38033	**6PFF0**
¼ in	10 in	Imperial	364-FHB-04	**5MK27**
¼ in	9 in	Ridgid	36122	**4A520**
¼ in	7 ½ in	Westward	—	**3CYU6**
¼ in, 5⁄16 in, ⅜ in	10 ½ in	Westward	—	**3CYV2**
¼ in, 5⁄16 in, ⅜ in	8 ½ in	Ridgid	44852	**1ATH9**
3⁄16 in, ¼ in, ⅜ in, ½ in	—	Imperial	370-FH	**3KE42**
3⁄16 in, ¼ in, 5⁄16 in, ⅜ in	8 ¼ in	Imperial	368-FH	**6X861**
Spring Tube Bender Set				
¼ in, 5⁄16 in, ⅜ in, 7⁄16 in, ½ in, ⅝ in	10 ½ in	Westward	—	**3CYP3**
Accessories				
Tripod Tube Bender Stand, For Use With 6XGC0		Rothenberger	58182	**6XGC1**

Outside Dia. Tubing (in.)	Bend Angle (Deg.)	Centerline Bend Radius	Markings	Type	Brand	Mfr. Model	Item No.
Foot Operated							
2 ½ in	0 to 180	9 in	Digital Read Out From 0° To 180°	Electric	Baileigh Industrial	RDB-250	**20UX03**
3 in	0 to 180	20 in	Digital Read Out From 0° To 180°	Hydraulic	Baileigh Industrial	RDB-500	**20UX05**

4A518

3CYR7

3CYP5

Flaring and Swaging Tools

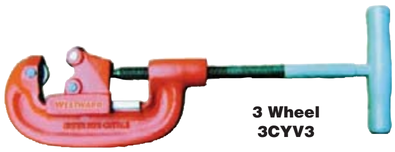
Tube Expander Kits—4A524 creates joints in soft copper, aluminum, and soft steel tube. Eliminates fitting and reduces solder consumption. Can be used to recalibrate damaged tubing. Comes in plastic case. 38EY29 is for expansion of PEX-a and ProPEX tubing for termination to fitting. Built-in auto rotation provides accurate, one-handed expansion, precision expansion with rapid return, integrated magnesium housing, and D-handle design for durability. Tool-free head change compatible with Milwaukee and Uponor heads.

Swaging Tools—For joining copper and other thin-walled tubing. Eliminate need for coupling. Precision tapered. Hex body for use with wrench.

Flaring Tools—Use single flare tools in most non-high pressure applications. Use double flare tools in high-pressure applications such as automotive, AC, and refrigeration.

Description	Cap. Tubing O.D. (in.)	Overall Length (in.)	Brand	Item No.
Tube Expander Kits				
Single Action, 4 Pc.	⅜ , ½ , ¾ , 1 in	15 ¼	Ridgid	**4A524**
Cordless Expansion Tool Kit	⅜ to 1	7½	Milwaukee	**38EY29**
Swaging Tools				
Swaging Tool	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	5 ¼	Imperial	**5MK32**
	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	6 5⁄16	Westward	**3CYR8**
Swaging Tool Set, 4 Pc.	¼, ⅜, ½, ⅝	4 ⅛	Ridgid	**4A523**
	¼ , ⅜ , ½ , ⅝ in	3 9⁄16	Westward	**3CYP5**
Flaring Tools				
Flaring and Reaming Kit	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	10 ⅛	Imperial	**3XTV9**
Flaring Tool	¾ , ⅞ , 1 , 1 ¼ in	11 ⅞	Imperial	**3XTW1**
Heavy-Duty Flaring Tool, 37°	3⁄16, ¼, 5⁄16, ⅜, ½, ⅝	6	Imperial	**5MK31**
Double Flaring Tool, 45°	—	11 13⁄16	Westward	**3CYN8**
Self Adjusting Flaring Tool, 45°	3⁄16 to ⅝, 4.7 to 16mm	—	Imperial	**3KE47**
Adjustable Flaring Tool, 45°	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	5 ⅛	Westward	**3CYR6**
Flaring Tool, 45° Single 45 Degree	3⁄16 , ¼ , 5⁄16 , ⅜ , ½ , ⅝ in	5 ⅞	Westward	**3CYR7**
Flaring Tool, Single 45 Degree	3⁄16 , ¼ , 5⁄16 , ⅜ , 7⁄16 , ½ , ⅝ in	6 ¼	Ridgid	**1ATK0**
	3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝	7	Imperial	**6X859**
Flaring Tool, 45° Single 45 Degree	3⁄16 , ¼, 5⁄16 ⅜, 7⁄16, ½, ⅝	7	Westward	**3CYV1**
Flaring Tool, Single 45 Degree	⅛, 3⁄16, ¼, 5⁄16, ⅜ ½, ⅝, ¾	7 ½	Ridgid	**4A519**
Flare and Precision Socket Tool, Single 45 Degree	3⁄16 to ⅝	9 ½	Rothenberger	**53RE80**
Flaring Tool, Single 45 Degree	3⁄16 to ⅝	9 ½	Rothenberger	**53RE78**
Combination Kits				
Flaring and Swaging Kit 37° and 45° Single, 45° Double	Single Flare ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾, Double Flare 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾, Swage 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	11 ½	Imperial	**3XTW2**
Flaring & Swaging, 45° Single	Flares ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾; Swages 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	7	Imperial	**1A217**
	Flares ⅛, 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝, ¾; Swages 3⁄16, ¼, 5⁄16, ⅜, ½, ⅝, ¾	10 13⁄16	Westward	**3CYU4**
Flaring & Cutting, 45° Single and Double	Single Lap Flares 3⁄16, ¼, 5⁄16, ⅜, 7⁄16, ½, ⅝; Double Lap Flares 3⁄16, ¼, 5⁄16, ⅜, ½; Cuts ⅛ to 1⅛	6 ¼	Ridgid	**4A518**
Flaring & Cutting, 45° Double	3⁄16, ¼, 5⁄16, ⅜, 7⁄16 ½ ⅝	7	Westward	**3CYT7**
Accessories				
Double Flare Attachment, Used with Mfr. No. 26033 for Double and 180°Flaring of Copper, Brass, Aluminum, and Precision Steel Tubing, 1⁄16 ,1/4, 5⁄16 , ⅜, ½ OD Flare			Rothenberger	**53RE79**

Ratcheting
3ZJG1



3 Wheel
3CYV3

Knob
425R21

Dual Handle
3CYT8

U-Shaped Handle
Ratcheting
1VXH1

Pipe Cutters

Description	Cutting Cap.	Body Material	Overall Length	Brand	Item No.
Chain Type					
Manual	1 in to 2 in	Chrome Plated	11 in	Rothenberger	**6XGA7**
Ratcheting Pipe Cutter	Up to 4½ in	—	12 in	Grip-On	**5MK42**
	Up to 6 57/64 in	Steel	22 ½ in	Gedore	**425R16**
PVC and Plastic					
Manual	2 in	—	18 in	Westward	**10D468**
Ratcheting	⅛ in to 1⅝ in	Alum.	8 ¾ in	Wheeler-Rex	**425W22**
	⅛ in to 2 7/16 in	Alum.	13 in	Wheeler-Rex	**425W23**
	⅛ in to 2½ in	Alum.	10 in	Superior Tool	**29JA12**
	½ in to 2⅜ in	Alum.	10 in	Ridgid	**3ARC4** *
	¾ in to 1¼ in	Alum.	10 ⅓ in	Gedore	**425R39**
	1 in to 2¾ in	Alum.	14 in	Gedore	**425R40**
	1 in to 2½ in	Die Alum. Alloy	5 in	Westward	**1YNA7**
	1 in to 1⅝ in	Die Alum. Alloy	8 ½ in	Westward	**1YNA6**
	1⅝ in	Alum.	9 in	LENOX	**3ZJG1** *
	2⅜ in	Alum.	12 ½ in	LENOX	**3ZJG2** *
	Up to 1¼ in	Rugged metal alloy frame for durability	8 in	Greenlee	**4CN03**
	Up to 1⅝ in	Alum.	8 ½ in	Ridgid	**2DPH3** *
	Up to 2 in	—	18 in	Greenlee	**5LE31**
Scissor Style	⅛ in to 1⅜ in	Alum.	8 ½ in	Ridgid	**1XDX7** *
	⅛ in to 1⅝ in	Plastic	8 ¾ in	Ridgid	**2CVH7** *
Shear-Cut	1 in	Plastic	8 in	Rothenberger	**53RF07**
	1¼ in	Steel	7 in	Rothenberger	**53RF06**
	1 5/16 in	Alum.	8 ½ in	LENOX	**3ZJF9** *
	1⅝ in	Plastic	8 in	Rothenberger	**53RF03**
	1¾ in	Magnesium	9 43/64 in	Gedore	**425R37**
	2 in	Plastic	10 ½ in	Rothenberger	**53RF04**
	2½ in	Magnesium	11 in	Gedore	**425R38**
	2½ in	Plastic	11 ¼ in	Rothenberger	**53RF05**
	Up to 2½ in, Schedule 40 in, Up to 3 in	—	19 in	Rothenberger	**1FET2**
Screw-Feed					
Cuts Aluminum, Brass, Copper, Steel, 2 Wheel	½ in to 2 in	—	14 in	Westward	**4YR88**
Cuts Aluminum, Brass, Copper, Steel, 3 Wheel	⅛ in to 2 in	Alum.	19 ¾ in	Westward	**3CYV3**
Cuts Brass, Composite, Copper, Plastic, PVC, Thin Walled Steel Pipes, Knob	⅛ in to 1¼ in	Cast Zinc	7 in	Gedore	**425R31**
	⅛ in to 1¼ in	Magnesium	6 ⅓ in	Gedore	**425R30**
	½ in to 2½ in	Cast Zinc	9 43/64 in	Gedore	**425R32**
Cuts Brass, Copper, Thin Walled Steel Pipes, Knob	⅛ in to ⅝ in	Cast Zinc	2 in	Gedore	**425R33**
Cuts Cast Iron, Stainless Steel, Steel	⅛ in to 2 in	Steel	15 in	Gedore	**425R17**
	1¼ in to 4 in	Steel	20 ½ in	Gedore	**425R18**
Cuts Cast Iron, Stainless Steel, Steel, 3 Wheels	⅛ in to 2 in	Steel	15 in	Gedore	**425R19**
	1¼ in to 4 in	Steel	20 ½ in	Gedore	**425R20**
Cuts Composite, Plastic, Knob	¼ in to 3 in	Alum.	9 43/64 in	Gedore	**425R34**
	2 in to 5 in	Alum.	13 ½ in	Gedore	**425R35**
Cuts Ductile Iron, Steel, 3 Wheel, Dual Handle	1 in to 3 in	Iron	25 ½ in	Ridgid	**4CW50** *
Cuts Stainless Steel, 3 Wheel	⅛ in to 2 in	Iron	18 in	Ridgid	**4A506** *
Cuts Stainless Steel, 3 Wheel, Dual Handle	2 in to 4 in	Iron	25 ½ in	Ridgid	**4CW51** *
Cuts Stainless Steel, Dual Handle, 4-Wheel	2½ in to 4 in	Iron	26 ½ in	Ridgid	**4CW53** *
Cuts Stainless Steel, Heavy-Duty, 4-Wheel	¾ in to 2 in	Iron	18 in	Ridgid	**4CW52** *
Cuts Stainless Steel, Knob	⅛ in to 1¼ in	Magnesium	6 ⅓ in	Gedore	**425R21**
	⅛ in to 1¾ in	Magnesium	7 in	Gedore	**425R22**
	⅛ in to 1¼ in	Zinc	6 ½ in	Gedore	**425R24**
	¼ in to 3 in	Alum.	9 43/64 in	Gedore	**425R23**
Cuts Steel, Dual Handle	Up to 4 in	Ductile Iron	35 ½ in	Westward	**3CYT8**
Soil Pipe					
For Use With ½ in Square Drive Impact Driver or Ratchet	Pipe Up to 8 in dia.	—	18 in	Ridgid	**21XZ31**
One Stroke	1½ in to 6 in	Forged Steel	40 in	Ridgid	**437L08**
Ratcheting	1½ in to 6 in	Forged Steel	33 ¼ in	Ridgid	**6YJ36**
	No Hub 1½ in to 6 in	Steel	24 5/16 in	Ridgid	**5EPP7**
U-Shaped Handle Ratcheting	1½ in to 6 in	Forged Steel	17 in	Ridgid	**1VXH1**

**** Replacement Wheels available on Grainger.com.***

Description	Brand	Mfr. Model	Item No.
Replacement Cutter Wheels			
For Copper, Brass, Aluminum Tubing, Thin Wall Conduit, Steel and Iron Pipe	Westward	—	**5MZ34**
For Steel and Ductile Iron, Heavy-Duty	Ridgid	33100	**4CW58**
For Steel and Ductile Iron, Heavy-Duty	Ridgid	33105	**4CW59**
For Steel and Ductile Iron	Ridgid	33120	**4CW61**
For Steel and Ductile Iron	Ridgid	33125	**4CW62**
For Steel and Ductile Iron	Ridgid	44185	**4CW85**
For Stainless Steel	Ridgid	33130	**4NV23**
For Stainless Steel	Ridgid	44190	**4CW86**
For Stainless Steel, Heavy-Duty	Ridgid	33110	**4CW60**
Replacement Cutter Blades			
Chain Assembly for 6YJ36, Soil Pipe Cutter	Ridgid	34575	**1VTT5**
For 3ARC4 Plastic Tubing Cutter	Ridgid	30093	**3ARC5**
For 2DPH3 Plastic Tubing Cutter	Ridgid	27858	**2DPH4**
For 3ZJF9 PVC Cutter	LENOX	12126S2B	**3ZJG4**
For 3ZJG1 PVC Cutter	LENOX	12127R1B	**3ZJG5**
For 3ZJG2 PVC Cutter	LENOX	12128R2B	**3ZJG6**

Description	HP	Max. Pressure (psi)	Flow Rate	RPM	Torque	Item No.
Portable Valve Exercisers						
With Forward Only Counter	13 hp	2000	8 gpm	60 RPM	600 ft lb	**38L099**
With Forward/Reverse Counter	13 hp	2000	8 gpm	60 RPM	600 ft lb	**38L101**
Valve Exerciser Power Drive						
115V w/Counter	½ hp	—	—	22 RPM	250 ft lb	**38L102**
Rising Stem Valve Operator						
115V w/Counter, Clutch and Hand Wheel Adapter	½ hp	—	—	22 RPM	200 ft lb	**38L103**
Hydraulic Power Pack						
2-Wheeled Cart w/Pneumatic Tires And Cage	6.5	1200	6 gpm	—	—	**38L090**

Description	Item No.
Hydraulic Snap Pipe Cutters	
2 to 6 in Cast Iron Water Main, 8700 to 9000 psi	**38L083**
4 to 12 in Cast Iron Water Main, 5700 to 6000 psi	**38L084**
6 to 18 in Cast Iron Water Main, 9000 to 9700 psi	**38L085**
6 to 36 in Soil Pipe, 900 to 9700 psi	**38K992**
4 to 24 in Soil Pipe, 5700 to 6000 psi	**38K989**
Glass Tube Cutters	
¼ to ¾ in	**38L091**
¼ to 1 in	**38L092**
¼ to 1½ in	**38L093**
Pipe Scrapers	
3 to 12 in	**38L086**
12 to 36 in	**38L087**
Copper Pipe Shut Off Tools	
¾ to 1 in	**38L094**
½ to 1 in	**38L095**
1 ¼ to 2 in	**38L096**

Description	Item No.
Plastic Pipe Shut Off Tools	
⅜ to 2 in, For Water Lines	**38L097**
⅜ to 2 in, For Gas Lines	**38L098**
Hydrant Wrench	
Fits Pentagon Nuts Up to 1¾ in, Square Nuts Up to 1¼ in	**38L111**
½" Drive SAE Sockets	
¾ in, 6-pt. Deep	**38L105**
⅞ in, 6-pt. Deep	**38L106**
15/16 in, 6-pt. Deep	**38L107**
1 1/16 in, 6-pt. Deep	**38L108**
1¼ in, 6-pt. Deep	**38L109**
1⅛ in, 6-pt. Deep	**38L110**
Sockets	
5-Pc. Set, 15/16 to 1¼ in, 6-pt. Deep	**38L104**
Valve Exerciser Power Drive	
½ hp HP, 250 ft lb Torque	**38L053**
Bypass Valve Kit	
Male and Female Flat Faced Quick Disconnects, Max. Flow 30 gpm	**38L012**

38L099

38L111

Valve Exercisers and Pipe Cutters

Portable Valve Exercisers—Frame is designed to absorb all torque to help protect the operator. With fingertip controls, digital counter, and 2" ball hitch coupling. Auxiliary connections allow use as a hydraulic power source for other tools.

Manual Tube Cutters

- For additional tube cutter replacement wheels, see Grainger.com

Midget—Use in restricted spaces on small-dia. hard and soft copper, aluminum, brass, and plastic.

Ratcheting—Cut copper, brass, stainless steel, plastics, and PVC. Facilitates work in tight areas.

Screw Feed and Enclosed Screw Feed—Enclosed screw feed cutters for thin-wall conduit have grooved rolls for close-to-flare cuts, fold-away reamer, and spare cutter. Hi-Duty tools are for copper, brass, aluminum, and thin-wall steel conduit. 6X858 also cuts steel and stainless steel.

Telescoping—Feature grooved rollers with flare cutoff groove and fold-away reamer. Enclosed-feed cutting action for aluminum and steel with a special cutting wheel for copper.

Description	Cutting Cap.	Overall Length	Brand	Item No.
Midget				
Big-Imp Screw Feed	⅜ in to 1⅛ in	2 ¹¹⁄₁₆ in	Imperial	**3KE44**
Enclosed Feed	⅛ in to ⅞ in	2 ¹³⁄₁₆ in	Westward	**3CYU2**
	⅛ in to ⅝ in	4 in	Westward	**3CYT4**
	⅛ in to 1⅛ in	6 ⁵⁄₁₆ in	Westward	**3CYT1**
IMP Enclosed Feed	⅛ in to ⅝ in	1 ¾ in	Imperial	**6X857**
Midget, Feed Screw	⅛ in to ⅝ in	2 ⅛ in	Ridgid	**1ATH6**
	³⁄₁₆ in to ¹⁵⁄₁₆ in	2 ⁹⁄₁₆ in	Ridgid	**4A513**
	¼ in to 1⅛ in	3 ⅛ in	Ridgid	**1ATH7**
Self-Feeding	¼ in to 1⅛ in	2 ¾ in	Ridgid	**6XW70**
PVC and Plastic				
M12 PVC Cutter Tubing & Hose Cutter	—	—	Milwaukee	**4PKV3**
PEX Tubing Cutter	1⁵⁄₁₆ in	8 ½ in	LENOX	**3ZJF8**
PVC Cutter	⅛ in to 1⅝ in	8 ¼ in	General	**3ZG72**
	⅛ in to 1⅝ in	8 ⁴⁵⁄₆₄ in	Westward	**3CYN7**
Quick Acting, PEX Cutter	½ in	4 in	Rothenberger	**4ETC3**
	1 in	4 in	Rothenberger	**4ETC5**
Quick Acting				
For Aluminum, Brass, Copper	¼ in to 1⅝ in	8 ³⁄₁₆ in	Ridgid	**4A514**
	1¼ in to 3½ in	9 ½ in	Ridgid	**1XDY4**
	1⅞ in to 4½ in	16 ⅝ in	Ridgid	**4A516**
	4 in to 6⅝ in	15 ¾ in	Ridgid	**1XDY6**
For Aluminum, Brass, Copper, CPVC, PB, PE, PEX, Plastic	⅛ in to 1¼ in	6 ¾ in	Ridgid	**1XDY1**
For Aluminum, Brass, Copper, Steel	¼ in to 2⅝ in	12 in	Ridgid	**4A515**
For Aluminum, Copper, Steel	¼ in to 2⅝ in	8 ⁵⁄₁₆ in	Westward	**3CYR5**
	¼ in to 2 in	9 ½ in	Westward	**3CYT5**
	¼ in to 2⅝ in	11 ¹³⁄₃₂ in	Westward	**3CYT6**
For Corrugated Gas Tubing (CSST)	⅜ in to 1 in	9 in	Ridgid	**4PCE2**
For CPVC, PB, PE, PEX	1 in to 3 in	9 ½ in	Ridgid	**1XDY3**
For CPVC, PB, PE, PEX, Plastic	1½ in to 4 in	12 ½ in	Ridgid	**1XDY5**
For Plastic	¼ in to 2 in	8 ¾ in	Ridgid	**1XDY2**
For Stainless Steel	¼ in to 1⅜ in	6 ¼ in	Ridgid	**4CPC2**
Ratcheting				
Adjust-o-matic Quick Acting Ratcheting	⅜ in to 2⅝ in	7 ¾ in	Imperial	**3KE46**
Ratcheting	⅛ in to ⅜ in	4 in	Ratch Cut	**5MK96**
	⅛ in to ⅝ in	5 in	Imperial	**3XTW6**
	⁵⁄₁₆ in to 1⅛ in	7 in	Ratch Cut	**5MK94**
	⁵⁄₁₆ in to 1⅛ in	7 ½ in	Westward	**3CYP9**
Self-Feeding Ratcheting	¼ in to 1⅛ in	8 in	Ridgid	**5EPR2**
Screw Feed and Enclosed Screw Feed				
Enclosed Feed	⅛ in to 1⅛ in	8 ⁵⁄₁₆ in	Westward	**3CYR9**
	¼ in to 2⅜ in	11 in	Ridgid	**4CW57**
	¼ in to 2½ in	11 ¼ in	Westward	**3CYV6**
Hi-Duty Enclosed Feed	⅛ in to 1⅛ in	4 ¹⁵⁄₁₆ in	Imperial	**6X858**
	¼ in to 1⅝ in	5 ½ in	Imperial	**3KE43**
Quick Acting, Enclosed Feed Screw	⅛ in to 1⅛ in	4 ⅞ in	Ridgid	**1ATH8**
Screw Feed	⅛ in to ⅞ in	2 ¾ in	Rothenberger	**53RE98**
	⅛ in to ⅝ in	2 in	Rothenberger	**53RE96**
	⅛ in to 1⅛ in	3 ¼ in	Rothenberger	**53RE99**
	⅛ in to 1⅛ in	5 ¼ in	Rothenberger	**53RE95**
	⅛ in to 1 in	6 in	Ridgid	**4CW54**
	⅛ in to 1⅛ in	6 in	Proto	**3R304**
	⅛ in to 1⅛ in	8 ⁵⁄₁₆ in	Westward	**3CYU1**
	³⁄₁₆ in to 1⅛ in	6 ½ in	Ridgid	**5A193**
	³⁄₁₆ in to 1⅛ in	8 ½ in	Ridgid	**1VTU2**
	¼ in to ⅞ in	2 ¼ in	Rothenberger	**53RE97**
	¼ in to 2⅜ in	4 ½ in	Wheeler-Rex	**425W21**
	¼ in to 1⅝ in	6 in	Rothenberger	**53RE94**
	¼ in to 1⅝ in	6 ½ in	Rothenberger	**53RF02**
	¼ in to 1⅜ in	6 in	Rothenberger	**53RF01**
	⅝ in to 2⅛ in	10 ½ in	Ridgid	**4CW55**
	1 in to 3⅛ in	12 ½ in	Ridgid	**4CW56**
Telescoping				
Quick Acting Enclosed Feed	³⁄₁₆ in to 1¼ in	5 ¹³⁄₆₄ in	Westward	**3CYT3**
Tubing Cutter Set				
Copper, Manual	1 in, ½ in, ¾ in	3 in, 3 ½ in, 4 in	LENOX	**22FE98**

Description	For Use With	Brand	Item No.	Pkg. Qty.
Replacement Cutting Wheels				
General Purpose	123R, 124, 125, 126, 128, 129X, 135, Mfr. No. 120	General	**3ZH47**	2
Iron Pipe	125, 126, 127, 129X, Mfr. No. 120	General	**3ZH48**	1
Aluminum and Copper	4CW54, 5A193 Tube Cutter	Ridgid	**4CW63**	1
	1XDY6, 4A516, 4CW56	Ridgid	**6YJ37**	1
	Copper, Aluminum	Ridgid	**4CW65**	1
Aluminum, Copper and Brass	Tubing Cutter	Westward	**3CYU3**	2
	Tube Cutter	Ratch Cut	**5MK95**	2
	Tube Cutter	Ratch Cut	**5MK97**	2
Stainless Steel	1VTU2 Tubing Cutter	Ridgid	**1VTU3**	1
	Mfr. No. 35S/29963	Ridgid	**4CPC3**	2
Steel and Stainless Steel	4CW55 Tube Cutter	Ridgid	**4CW64**	1
	Steel, Stainless	Ridgid	**4CW66**	1
Plastic	Tubing Cutter	Westward	**3CYR2**	2
	Tubing Cutter	Westward	**3CYR3**	2
PEX	Tubing Cutter	LENOX	**3ZJG3**	1
Ratchet Handle				
Ratchet Handle for 5EPR2	Tubing Cutter	Ridgid	**5EPR3**	1

Pipe- and Tube-Cutting Machines

EZ Cutter—Cuts copper, brass, aluminum, thin-walled steel, and plastic-coated pipe. Include foot switch and pipe cutter wheel. 6RRU6 also includes 2 roller supports and 2 stationary supports.

Portable Electric Pipe Cutter—Cuts Schedule 40 steel pipe, galvanized pipe, and rigid conduit. 2 included ball transfer stands keep pipe level during cutting. Requires Model 700 Power Drive threader 1AC02, sold separately on page 870.

Hydraulic-Powered Pipe Cutters—Cut larger dia. cast iron, tile and concrete pipe. Like the hand-operated cutters, hydraulic cutters are not rotated around pipe. Remotely operated hydraulic pumps provide the required power. A 2"–3" minimum clearance required to wrap cutter chain around pipe. Cutters include pump, hose and case.

Copper Tube Cutting Machine—Cuts, deburrs, and cleans copper tube and fittings. Includes reamer, 6 cleaning brushes, storage rack, and quick-change collet. Can be mounted on tripod stand 1VTV2, sold separately on page 871.

M12 Cordless Copper Tube Cutter—Cuts copper tubing, wet or dry. Runs on a 12V lithium ion battery; fuel gauge displays the remaining run time. Includes 1 battery, charger, and case.

Transport Cart—Engineered to help move compatible electric pipe cutters to and from the jobsite. 250-lb. load capacity. 14¾" W x 15" D x 42¾" H".

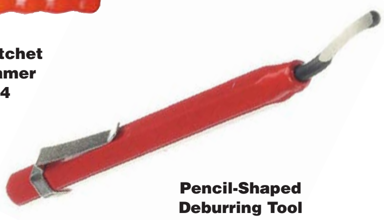
Description	Brand	Mfr. Model	Item No.
Pipe and Copper Tube Cutting Machines			
EZ Cutter, Pipe ⅝ in to 4½ in	Rothenberger	00032	**6RRU5**
EZ Cutter, Pipe ⅝ in to 4½ in	Rothenberger	00033	**6RRU6**
Portable Electric Pipe Cutter			
Pipe 2½ in to 8 in	Ridgid	50767	**2RPC4**
Hydraulic Powered Pipe and Copper Tube Cutting Machines			
2 to 8 in Soil Pipe	Wheeler-Rex	2990-8	**38K983**
2 to 10 in Soil Pipe	Wheeler-Rex	2990-10	**38K984**
2 to 12 in Soil Pipe	Wheeler-Rex	2990-12	**38K985**
2 to 15 in Soil Pipe	Wheeler-Rex	2990-15	**38K986**
4 to 15 in Soil Pipe	Wheeler-Rex	3890-15	**38K987**
4 to 18 in Soil Pipe	Wheeler-Rex	3890-18	**38K988**
6 to 20 in Soil Pipe	Wheeler-Rex	5590-20	**38K990**
6 to 24 in Soil Pipe	Wheeler-Rex	5590-24	**38K991**
Pipe and Copper Tube Cutting Machines			
Copper Tube Cutting Machine, Tube ½ in to 2 in	Ridgid	93492	**3FE66**
M12 Tube Cutters			
½ in to 1 ⅛ in	Milwaukee	2471-21	**2PYX8**
Pipe and Tube Cutting Machine Accessories			
Transport Cart for 2RPC4 Pipe Cutter	Ridgid	54397	**2RPC5**
Replacement Cutting Wheel for 2RPC4	Ridgid	50812	**2RPC6**
Replacement Cutting Wheel for 2PYX8, 5GUY3	Milwaukee	48-38-0010	**2RFR8**
Replacement Pipe Cutter Wheel for 6RRU5, 6RRU6	Rothenberger	00034R	**6XGA4**
Replacement Copper Tube Cutter Wheel for 6RRU5, 6RRU6	Rothenberger	00035	**6XGA5**
Replacement Soil Pipe Cutter Wheel for 6RRU5, 6RRU6	Rothenberger	00535	**6XGA6**
Pipe Cutter Stand for 6RRU5 and 6RRU6	Rothenberger	00037	**6XGA3**

Tubing Reamer
21XZ32

Hand Reamer/Countersink
3ZH14

Screwdriver Handle Reamer
3ZG96

Spiral Ratchet Pipe Reamer
3CYV4



Pencil-Shaped Deburring Tool
1FET3

RIDGID Imperial WESTWARD GENERAL GEDORE ROTHENBERGER GREENLEE

Reamers, Deburrers, and Brushes

REAMERS AND COUNTERSINKS

Remove burrs from cut pipe, tubing, and conduit, and enlarge and countersink holes in sheet metal, plastic, and other materials.

DEBURRING TOOLS

Hole Deburring Tool—Deburrs up to 10-ga. mild steel, stainless steel, copper, brass, and aluminum.

Rotary-Style Deburring Tool—Rotary-style blade removes burrs from tube I.D., holes, and edges. 2 heavy-duty blades included. Ergonomic handle can store extra blade.

Pencil-Shaped Deburring Tool—For deburring aluminum, copper, brass, steel, and plastic.

Description	Overall Length (in.)	For Material Thickness	Brand	Mfr. Model	Item No.
Reamers and Countersinks					
Inner-Outer Reamer	2 ⅜ in	¼ to 1¼	Ridgid	29983	**3ARC7**
Inner-Outer Reamer	3 ½ in	½ to 2 in	Ridgid	29993	**3ARC6**
Inner/Outer Tubing Reamer SS	2 ¼ in	3/16 to 1½ in	Imperial	208-FSS	**40AW16**
Inner/Outer Tubing Reamer	3 in	3/16 to 1½ in	Imperial	208-F	**3KE45**
Inner/Outer Tubing Reamer	3 in	¼ to 1½	Westward	—	**3CYU5**
Stainless Steel Tubing Reamer	4 in	—	Ridgid	43573	**21XZ32**
Hand Reamer/Countersink	4 ½ in	⅛ in to ¾ in	Westward	—	**3CYP2**
Hand Reamer/Countersink	4 ⅝ in	Up to ¾ in	General	196	**3ZH14**
Hand Reamer	8 ½ in	⅛ to ⅜ in	Westward	—	**3CYP6**
T-Handled Reamer	5 ¾ in	⅛ to ½ in	General	130	**3ZG95**
Screwdriver Handle Reamer	6 ½ in	⅛ to ⅜ in	General	131	**3ZG96**
Spiral Ratchet Pipe Reamer	20 ¼ in	¼ to 2 in	Ridgid	34955	**4A512**
Spiral Ratchet Pipe Reamer	21 ½ in	¼ to 2 in	Westward	—	**3CYV4**
Deburring and Reaming, 3 Hollow Ground Cutters	1 ¾ in	½ in to 3 11/32 in	Gedore	232001	**425R27**
Deburring and Reaming, 40 Cutting Edges	2 ⅓ in	½ in to 2⅛ in	Gedore	232501	**425R29**
Deburring and Reaming, 40 Cutting Edges	3 ⅓ in	½ in to 3 11/32 in	Gedore	232500	**425R28**
Deburring Tools					
Aluminum, Copper, Pipe with ⅛ in to 1⅝ in Outside Diameter, Steel	2 in	—	Rothenberger	11006	**53RE74**
Hole Deburring Tool	2 ½ in	Up to 10 ga	Greenlee	11170	**4GB10**
Replacement Blades for 4GB10, Pk. of 3	—	—	Greenlee	11180	**4GB11**
Rotary Style Deburring Tool	7 in	—	Rothenberger	21655	**53RE75**
Rotary Style Deburring Tool	5¾ in	3/16 in and Above	Imperial	210-F	**3XTW7**
Pencil Shaped Deburring Tool	6 in	—	Rothenberger	21660	**1FET3**

Description	Overall Length (in.)	Cap. (in.)	Brand	Mfr. Model	Item No.
Pipe and Fitting Brushes					
Inner/Outer Pipe Cleaning Brush	3 ¾ in	½ in	Westward	—	**3CYP7**
Inner/Outer Pipe Cleaning Brush	3 ¾ in	¾ in	Westward	—	**3CYP8**
Copper Pipe Cleaning Brush	7 ¾ in	½ in, ¾ in	Ridgid	34142	**1VTT4**

53RF07

5KNX8

5KNX9

ROTHENBERGER Malco

PEX II Wire Tools and Clips

This tool lets you layout an in-floor radiant heating system. It secures PEX (polyethylene cross-linked tubing) to a wire grid with propriety Malco Clips. Features 25-clip capacity magazine. Smooth stapling mechanism quickly feeds and installs 12-ga. wire clips with a single one-handed pump of the ergonomic, nonslip handle. Wire Clips are for PEX tubing from ⅜" to ⅝" inside diameters. Heavy-duty clips will not jam, break, or damage PEX.

Description	Overall Length (in.)	Brand	Item No.
Shear-Cut	—	Rothenberger	**53RF07**
PEX to Wire Tool	10⅜	Malco	**5KNX8**
PEX to Wire Clips, PK of 500	1⅞	Malco	**5KNX9**

Telescoping Basin Wrench
4A503

Internal Pipe Wrench Set
3ZG99

Pipe Extractor Set
1VUV3

RIDGID ROTHENBERGER PROTO Superior Tool GENERAL

Plumbing Specialty Hand Tools

Basin Wrench—Elongated shank reaches nuts under the faucet.

Soil Pipe Torque Wrenches—Preset to tighten 60 in.-lb. (1XDZ7) and 80 in.-lb. (1XDZ8).

Internal Pipe Wrenches—The 4-pc. set is ideal for installing and removing pipe nipples without denting or scratching the pipe surface.

Pipe Extractor Set—This 6-pc. set allows you to easily remove the broken threaded ends of pipe, pipe plugs, and fittings.

Description	Cap. (in.)	Overall Length (in.)	Brand	Item No.
Basin Wrench	⅜-1-1/4 in	10 to 17	Ridgid	**4A503**
	⅜ To 1 ¼ in	10	Ridgid	**1XDZ1**
	⅜ to 1¼ in	12	Rothenberger	**53RF25**
	⅜ to 1¼ in	18½	Rothenberger	**53RE76**
	¾ to 1⅞ in	18½	Rothenberger	**53RE77**
	1 ¼ To 2 ½ in	10 to 17	Ridgid	**1XDZ2**
Internal Pipe Wrench	½ in	3¾	Proto	**19C569**
	½ in	3.25	Superior Tool	**6CXE3**
	¾ in	3¾	Proto	**19C570**
	¾ in	3.25	Superior Tool	**6CXE4**
	1 in	3¾	Proto	**19C568**
	1 To 2 in	4½	Ridgid	**1VUV1**
Internal Pipe Wrench Set	⅜, ½, ¾, 1 in	3¾	Proto	**19C567**
	⅜, ½, ¾, 1 in	3¾	General	**3ZG99**
Pipe Extractor Set	⅛ to 1 in	—	Ridgid	**1VUV3**
Soil Pipe Torque Wrench	5/16 in	5¾	Ridgid	**1XDZ7**
	⅜ in	5¾	Ridgid	**1XDZ8**
Tee Extractor Set	⅜ to 1⅝ in	7.5	Rothenberger	**6XGA8**

4A508

1AC02

Manual Pipe Threading Machines

MANUAL PIPE THREADERS

Deluxe Plumber's Kit

For black, galvanized pipe, IMC, and heavy-wall conduit up to 1". Includes ½", ¾", and 1" quick-change die heads, 1¼" steel pipe cutter, 10" water pump pliers, 14" heavy-duty pipe wrench, and pipe tape.

Super Cut

Slim, compact design with ratchet angle of 22.5°. Features simple insertion and removal of die heads, retainer locking, optimized cutting geometry, and easy operation in hard-to reach places with offset lever. Convenient, lockable reversal of the ratchet direction.

600 Power Drive

Heavy-duty motor for threading ½" to 1¼" pipe and conduit. Includes ½" and 1¼" right-hand die heads. Use with RIDGID 11R die heads and 12R replacement dies.

700 Power Drive

Drive large-geared threaders and cut pipe threads with drop-head dies through 2". Motor with spur gear reduction. RIDGID®\ model 12R die heads fit without adapter.

MANUAL PIPE THREADING ACCESSORIES

Universal Threading Machine Die Heads

¼" to 2" universal die head and 2½" to 4" receding die head allow cutting of tapered or straight right hand NPT/NPSM or BSP/BSPP threads. For use with 4CW39 threading machine, see page 871. Features automatic release for repeatable number of threads through-the-head oiling. Automatically opens when pipe is threaded to proper length.

Self-Opening Die Head

Feature through-the-head oiling. Open automatically after completion of the proper thread length.

Note: Automatic-open feature does not function below ½" size.

Quick-Opening Die Head

Uses universal right-hand pipe or bolt dies. (Included in 3Z987, 3RY43, and 3FE64, sold on page 871.)

Nipple Chuck Kit

Chuck and 5 included adapters accept ½" to 2" prethreaded pipe ends or studs to be cut to size and threaded down. For use with threading machines 3FE64, 3Z987, 3RY43, and 4CW39, see page 871. Includes wrench.

Pipe Equipment Series	Bolt Size	For Nominal Pipe Size	Rod Size	HP	Reversing	Brand	Mfr. Model	Item No.
Manual Pipe Threaders								
12-R Exposed Ratchet Threader Set	⅛ in to 1 in	½ in to 2 in	⅛ in to 1 in	—	—	RIDGID	36475	**4A508**
65-R Manual Ratchet Threader	No Bolt	1 in to 2 in	No Rod	—	—	RIDGID	36565	**1XDZ4**
Deluxe Plumber's Kit	No Bolt	½ in to 1 in	No Rod	—	—	Rothenberger	70614	**4ETA6**
Pipe Threader Kit	No Bolt	½ in to 1 ¼ in	No Rod	—	—	Westward	—	**4YR89**
Super Cut	No Bolt	½ in to 2 in	No Rod	—	—	Rothenberger	70905	**53RE84**
Pipe Threading and Cutting Machines								
600-I Power Drive	No Bolt	½ in to 1¼ in	No Rod	½ hp	No	RIDGID	44918	**20KY53**
690-I Power Drive	No Bolt	½ in to 2 in	No Rod	½ hp	Yes	RIDGID	44923	**20KY54**
700 Power Drive	¼ in to 1 in	⅛ in to 2 in	¼ in to 1 in	½ hp	Yes	RIDGID	700/41935	**1AC02**
700 Power Drive	¼ in to 1 in	⅛ in to 2 in	¼ in to 1 in	½ hp	Yes	RIDGID	45178	**52NZ16**

Description	For Use With	Brand	Mfr. Model	Item No.
Pipe Threading Accessories				
Universal Threading Machine Die Head	4CW39	RIDGID	26132	**4CW40**
Universal Self-Opening Die Head	3FE64, 3RY43, 3Z987, 5A191	RIDGID	97075	**5A195**
Quick-Opening Die Head	3FE64, 3RY43, 3Z987, 5A191	RIDGID	97065	**4Z974**
Nipple Chuck Kit	3FE64, 3Z987, 3RY43, 4CW39 Threading Machines	RIDGID	51005	**1VUR7**

1ED99

Roll Groovers

Model 918—Mounts on 3FE64, 3Z987, and 4CPC4 power drives, see page 871. Requires 300 power drive and clearance for turning handle. Includes 2" to 6" (schedule 10 and 40) roll set, 8" to 12" schedule 10 (8" schedule 40) roll set, tools for roll set change, and carrying case for roll sets.

Model 916—Integral depth-adjustment screw is separate from feed mechanism.

Model 975—Used for in-place applications or mount to a RIGID 300 power drive. Works with 3FE64 and 3Z987, see page 871. Auto tracking holds pipe into unit. Requires 6½" clearance to travel around pipe, minimum 2½" of exposed pipe for grooving.

Model 915—Easy roll set changeout, cast-in handle for transport. Ratchet (included) has 90° bend in handle. Depth setting gauge. Includes ½" ratchet wrench to feed screw.

Description	Capacity	Item No.
Hydraulic Roll Groovers		
Model 918	1 in to 12 in Schedule 10 Steel, Stainless Steel, PVC, 1 in to 8 in Schedule 40 Steel, PVC, 1 in to 2 in Schedule 40 Stainless Steel, 2 in to 6 in Copper (Types K, L, M, DWV), 2½ in to 6 in Schedule 80 PVC	**4CPD7**
Model 916	2½ in to 6 in Copper Tubing Types DWV, K, L, M	**2RPC2**
Model 975	1¼ in to 6 in Schedule 10 And 40 Steel, Aluminum, and PVC Pipe, 1¼ in to 6 in Schedule 10 Stainless Steel Pipe and 1¼ to 2 in Schedule 40 Stainless Steel Pipe	**3ARC8**
Manual Roll Groover		
Model 915	Schedule 10 Steel, Schedule 40 Steel/Stainless Steel 1¼ to 6 in, Copper Tube Type K, L, M, DWV 2 to 8 in, Schedule 40 PVC 1¼ to 6 in, Schedule 80 PVC 1½, 2½ to 3 in	**1ED99**

4NV27

12R Complete Alloy Die Heads

Die heads come complete with NPT alloy dies and fit the RIDGID 12R ratchet and handle 3AFP4, and RIDGID Model 700 Power Drive 1AC02 (sold separately on page 870) without the use of an adapter. A full line of 11R Complete Die Heads are available; go to Grainger.com and search for "Pipe Die Heads."

Nom. Conduit/Pipe	Mfr. Model	Item No.
1/2 in	37390	**4NV24**
3/4 in -14	37395	**4NV25**
1 in-11-1/2 TPI	37400	**4NV26**
1-1/4 in	37405	**4NV27**
1-1/2 in-11-1/2 TPI	37410	**4NV28**
2 in-11-1/2 TPI	37415	**4NV29**
1/2 in to 1 in	36345	**40GL44**
1/2 in to 2 in	84532	**40GL58**

Replacement Dies for 11R and 12R Die Heads

- Right hand NPT
- Pkg. of 4

4CW68

Nom. Conduit/Pipe	Mfr. Model	Item No.
Alloy Steel		
½ in-14 TPI	37825	**4A509**
¾ in-14 TPI	37830	**4A510**
1 in-11-½ TPI	37835	**4A511**
1¼ in-11-½ TPI	37840	**4CW67**
1½ in-11-½ TPI	37845	**4CW68**
2 in-11-½ TPI	37850	**4CW69**
High Speed Stainless Steel		
½ in-14 TPI	37915	**4CW77**
¾ in-14 TPI	37920	**4CW78**
1 in-11-½ TPI	37925	**4CW79**
1¼ in-11-½ TPI	37930	**4CW80**
1½ in-11-½ TPI	37935	**4CW81**
2 in-11-½ TPI	37940	**4CW82**
High Speed Steel		
½ in-14 TPI	37870	**4CW71**
¾ in-14 TPI	37875	**4CW72**
1 in-11-½ TPI	37880	**4CW73**
1¼ in-11-½ TPI	37885	**4CW74**
1½ in-11-½ TPI	37890	**4CW75**
2 in-11-½ TPI	37895	**4CW76**

38HY61

RIDGID

Manual Die Heads

- NPT threads

Manual threader die heads are high speed steel.

For Nominal Pipe Size	For Use With	Threads per Inch	Item No.
¼ in	40GL52	18	38HY61
1 in		11 ½	38HY62

34DA47

ROTHENBERGER RIDGID WESTWARD

Power Die Heads

- NPT threads

Power die heads are aluminum, self-opening, and self-oiling.

For Nominal Pipe Size	For Use With	Threads per Inch	Brand	Item No.
½ in to ¾ in	Mfr. No. 00575	14	Rothenberger	53RE92
½ in to 2 in	Mfr. No. 63005	11 ½, 14	Rothenberger	53RE91
½ in to 2 in	63006, Mfr. No. 63004	11 ½, 14	Rothenberger	53RE89
1 in to 2 in	Mfr. No. 00575	11 ½	Rothenberger	53RE93
2 ½ in to 4 in	Mfr. No. 63006	8	Rothenberger	53RE90
2 ½ in to 4 in	Mfr. No. 1224/26092	8	RIDGID	4CPE3
5 in to 6 in	31XM67	14	Westward	34DA47

2RPA9

RIDGID

Cutting Oils

Formulated with low odor and antimist properties; free of chlorine and other halogens, PCBs and heavy metals. 6YJ44 maintains workable viscosity to -20°F.

Description	Color	Viscosity	Item No.
Dark, 1 gal.	Black	42.5 mm2 /s	6YJ43
Endura-Clear, 1 gal.	Endura-Clear	44.5 mm2 /s	4PCE1
Extreme Performance - Mineral Oil Based, 1 gal.	Amber	38 mm2 /s	2RPA9
Nu-Clear, 1 gal.	Clear Yellow	43 mm2 /s	6YJ44

4ERZ4

3Z987

RIDGID ROTHENBERGER WESTWARD

Power Pipe Threading Machines

PIPE THREADING AND CUTTING MACHINES

22A—Machine has a 2.75-HP motor. 5-blade conical reamer.

50R—1-HP motor. Features ball detent die system.

300—Include sets of ½" to ¾" and 1" to 2" alloy universal dies.

535A—3-speed motor, large chip tray, and 1.75-gal. oil reservoir.

535M—Includes universal Quick-Opening Die Head 4Z974, 1 set of ½" to ¾" and 1" to 2" NPT universal dies, reamer, cutter, 1 gal. oil, spare cutter wheel, and integral foot switch.

1215—Compact machine for portable use.

1224—Includes RIDGID 2½" to 4" die head Model 714 die head, ¼" to 2" Self-Opening Die Head 4CW40, one set of ½" to ¾", 1" to 2", and 2½" to 4" high-speed dies, reamer, cutter, spare cutter wheel, tool box, ¾" combination wrench, 1-gal. Nu-Clear oil, and integral foot switch.

1250 Handheld—Push-button reverse. Includes pipe clamp, ROFIX adapter, ½", ¾", 1", and 1¼" precision die heads and dies.

Pipe Equipment Series	Bolt Size	For Nominal Pipe Size	Rod Size	HP	Reversing	Brand	Mfr. Model	Item No.
Pipe Threading and Cutting Machines								
4SE	⅜ in to 2 in	½ in to 4 in	No Rod	1 ½ hp	No	Rothenberger	63006	4ETA1
22A	¼ in to 2¼ in	⅛ in to 2 in	No Rod	2 ¾ hp	No	Rothenberger	00579R	4ERY9
50R	¼ in to 1½ in	½ in to 2 in	No Rod	1 hp	No	Rothenberger	63005	4ERZ4
300 Compact	¼ in to 2 in	⅛ in to 2 in	¼ in to 2 in	½ hp	No	RIDGID	67182	3FE64
300 Complete, 38 rpm	¼ in to 2 in	⅛ in to 2 in	¼ in to 2 in	½ hp	Yes	RIDGID	15682	3Z987
300 Complete, 57 rpm	¼ in to 1¼ in	⅛ in to 1¼ in	¼ in to 1⅛ in	½ hp	Yes	RIDGID	15722	4CPC4
300 Power Drive	¼ in to 2 in	⅛ in to 2 in	¼ in to 2 in	½ hp	Yes	RIDGID	41855	1VXG8
535A	5/16 in to 2 in	⅛ in to 2 in	¼ in to 2 in	2 hp	Yes	RIDGID	84097	4NCV3
535M	¼ in to 2 in	⅛ in to 2 in	¼ in to 2 in	½ hp	Yes	RIDGID	93287	3RY43
700 Power Drive	¼ in to 1 in	⅛ in to 2 in	¼ in to 1 in	½ hp	Yes	RIDGID	45178	52NZ16
1215	5/16 in to 1 in	¼ in to 1½ in	5/16 in to 1 in	½ hp	No	RIDGID	61142	1XDZ9
1224	¼ in to 2 in	¼ in to 4 in	¼ in to 2 in	1 ½ hp	Yes	RIDGID	26092	4CW39
1250 Handheld	No Bolt	½ in to 1¼ in	No Rod	1 hp	No	Rothenberger	71453	4ETA3
SUPERTRONIC 2000	No Bolt	½ in to 2 in	No Rod	1 11/32 hp	Yes	Rothenberger	71259L	53RE88
Westward	No Bolt	½ in to 2 in	No Rod	1 hp	Yes	Westward	8090	31XM66

Description	For Use With	Brand	Item No.
Pipe Threading Machine Accessories			
Power Drive Stand	Mfr. No. 122/93492 and 300/15682	RIDGID	1VTV2
Pipe Threading Machine Stand	4ETA1 Pipe Threading Machine	Rothenberger	4ETA2
Pipe Cutter	Mfr. No. 535M/93287	RIDGID	1VUP8
Pipe Cutter	3FE64, 3Z987 Threading Machines	RIDGID	1VUP6
Foot Switch	5A191, 3FE64, 3Z987, 3RY43, 4CW39 Threading Machines	RIDGID	1VTU9
FOR/OFF/REV Switch	Mfr. No. 300/15682	RIDGID	1VUR3
Pipe Reamer	3Z987 Threading Machine	RIDGID	1VTV3
Reamer Blade	4CW39 Threading Machine	RIDGID	1VTU6
Reamer Cone	300/67182, Mfr. No. 1822-I/20000	RIDGID	1VTU8
Jaw Insert Set	Mfr. No. 1224/26092	RIDGID	1VTU5
Jaw Insert Set	Mfr. No. 1822-I/20000	RIDGID	1VTU7
Jaw Insert Set	3Z987, 3FE64, 3RY43 Threading Machines	RIDGID	1VUR5
Replacement Pipe Die, 2 ½-4 in-8 TPI, Pk. of 5	6YJ38 Geared Threader	RIDGID	1VTV1
Threader Ratchet and Handle	Complete Die Heads Type 12R	RIDGID	3AFP4
Square Drive Adapter	1AC02, 6YJ38, 161 Geared Threader, 258 Power Pipe Cutter	RIDGID	1XDZ6
Support Arm	1AC02 Power Drive	RIDGID	1VUR1
Metal Carrying Case		RIDGID	4NV34
Pipe Threading Accessories			
Replacement Pipe Die, Right Hand, Bevel Thread Type	4CW40, 4Z974, 5A195 Threading Machine Die Heads and RIDGID Model No. 504A, 713, 816, 817 and 842 Universal Die Heads	RIDGID	38HY71
Replacement Pipe Die, Right Hand, NPSM Thread Type		RIDGID	38HY69
Pipe Threading Oiler		RIDGID	1ED22
Replacement Pump Gun Only for 1ED22	1ED22 Oiler	RIDGID	1VUT2
Replacement Pump Gun w/Hose for 1ED22		RIDGID	1VUR9

Tribench
53RE87

V-Head Pipe Stand
22XR01

Bench Chain Vise
1VUV7

Threading Machine Stand
2ZB62

RIDGID WESTWARD ROTHENBERGER GREENLEE

Pipe Threading Stands and Vises

Roller Head Pipe Stands—Roller heads support pipe weighing up to 2500 lb. The rollers allow the pipe to be turned while work is in progress. Additional stands are recommended for longer and heavier lengths of pipe. 22XP99 and 3FE65 allow height adjustment from 32" to 55".

Pipe Threading Machine Stands—Wheel stands feature 16" wheels. 2ZB62 features equipment cabinet for storage and includes 2 internal shelves and a large external shelf. For use with RIDGID Pipe Threading Machines 3RY43, 3FE64, and 4CW39, sold on page 871.

V-Head Pipe Stands—Allow height adjustments up to 52" on select models.

Pipe Cap.	Overall Height	Load Capacity	Leg Type	Max. Leg Spread	Brand	Item No.
Pipe Stand with Roller Head						
½ to 16 in	27 to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF40**
Portable Tribench						
⅛ to 6 in	36 in	48 lb	Collapsible Tripod	51 ½ in	Rothenberger	**53RE87**
Roller Head Pipe Stand						
⅛ to 12 in	32 to 55 in	2,500 lb	Adjustable	22 in	Westward	**22XP99**
⅛ to 12 in	32 to 55 in	1,000 lb	Adjustable	—	Ridgid	**3FE65**
½ to 16 in	27 to 50 in	2,500 lb	Folding	22 in	Rothenberger	**53RF38**
2 to 36 in	34 in	2,500 lb	Adjustable	30 in	Ridgid	**1VXG9**
V-Head Pipe Stand						
⅛ to 12 in	28 to 52 in	2,500 lb	Adjustable	22 in	Westward	**22XR01**
⅛ to 12 in	28 to 52 in	2,500 lb	Adjustable	—	Ridgid	**4CX07**
½ to 16 in	27 to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF36**
½ to 16 in	27 to 50 in	2,500 lb	Folding	22 in	Rothenberger	**53RF37**
½ to 16 in	27 to 50 in	2,500 lb	Rigid	22 in	Rothenberger	**53RF39**
12 in	28 to 52 in	2,500 lb	Folding	—	Ridgid	**26C170**

Pipe Cap.	Type	Overall Height	Brand	Item No.
Bench Chain Vises				
⅛ to 2½ in	Top Screw	3½ in	Ridgid	**1VUV7**
	Top Screw	3½ in	Westward	**22XR02**
⅛ to 4 in	Top Screw	4 in	Ridgid	**1VUV9**
	Top Screw	4 in	Westward	**22XR03**
¼ to 6 in	Top Screw	4½ in	Ridgid	**1VUW2**
	Top Screw	4½ in	Westward	**22XR04**
½ to 8 in	Top Screw	5 in	Westward	**22XR05**
	Top Screw	5 in	Ridgid	**1VUW4**
Bench Yoke Vises				
⅛ to 2 in	—	4½ in	Ridgid	**1ED98**
	—		Westward	**22XP96**
⅛ to 3 in	With Pipe Jaws	12½ in	Ridgid	**4CPD8**
⅛ to 4 in	—	5 in	Ridgid	**4NV31**
	—		Westward	**22XP97**
⅛ to 6 in	With Pipe Jaws	19 in	Ridgid	**4CPD9**
Portable Chain Vises				
⅛ to 2½ in	—	37 in	Ridgid	**4ZA21**
⅛ to 6 in	Tri-Stand	48 in	Ridgid	**13C594**
	—	35 in	Westward	**22XP94**
⅛ to 12 in	Tri-Stand	48 in	Ridgid	**13C595**
Portable Yoke Vises				
⅛ to 2½ in	—	35½ in	Ridgid	**1VUV5**
⅛ to 2 in	—		Westward	**22XP98**

For Use With	Load Capacity	Overall Height	Brand	Item No.
Pipe Threading Machine Stand w/Cabinet				
5A191, 3RY43, 3FE64, 4CW39 Pipe Threading Machines	400 lb.	32 in	Ridgid	**2ZB62**
Pipe Threading Machine Stand w/Tray				
5A191, 3RY43, 3FE64 and 4CW39 Pipe Threading Machines	400 lb.	32 in	Ridgid	**1EZ17**
Bending Threading Cart				
Mfr. No. 555, 854DX, 855DX, 467	2000 lb.	28 ½ in	Greenlee	**449T96**

Superfreeze Pipe Freezing Unit
6YJ42

Pipe Freezing Spray
56MD48

Pipe Thawing Unit
1XEA2

RIDGID ROTHENBERGER

Pipe Freezing/Thawing Units

Superfreeze Pipe Freezing Unit—Make repairs without shutting down water systems. System acts as a mini-refrigeration unit that circulates refrigerant to its aluminum freeze heads. Self-contained unit uses no consumables. Pipe capacity: ½" to 2" steel, ½" to 2½" copper tube.

Pipe Thawing Unit—Electric current clears frozen metal pipes in minutes without digging or breaking through walls. Two 25-ft. cables clamp on to provide continuous heat for 4 ft. to 150 ft. of ½" to 1½" dia. pipes. Adjustable current output.

Description	Brand	Mfr. Model	Item No.
Superfreeze Pipe Freezing Unit	Ridgid	68967	**6YJ42**
Pipe Freezing Spray	Rothenberger	1500003432	**56MD48**
Pipe Freezing Spray Kit	Rothenberger	1500003034	**56MD47**
Pipe Thawing Unit	Ridgid	62747	**1XEA2**

ZIRCON

Electronic Water Detector

Automatically sounds a loud alarm when in direct contact with water, alerting user to leaks and flooding. Features low-battery warning. Floats on surface. Splash- and water-resistant. Not water-proof. Made of molded, impact-resistant plastic. Powered by 9V battery (not included).

Description	Mfr. Model	Item No.
Water Detector	64003	**1TJT7**

RIDGID

Pressure Test Pump

Use to test piping systems for leaks. Features 1-valve operation, automatic pressure check valves, corrosion-proof construction, and variable lever-arm design. Pressure gauge is protected from damage; dirt filter is replaceable.

Max. Pressure (psi)	Connection Size (NPT)	Hose Length (in.)	Mfr. Model	Item No.
725	½ in	30	50557	**1XDZ3**

STANLEY Milwaukee Lufkin KESON DEWALT FastCap WESTWARD SKILCRAFT JOHNSON KOMELON USA Division STANLEY FatMax INSIZE

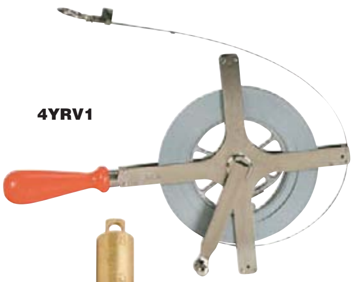
Features Key

A	Stud Markings	L	Autolock
B	Magnetic Tip	M	Zero Point
C	Write-on Label	N	Reinforced Blade
D	Wrap-around Dia.	O	Impact Resistant
E	Reinforced Hook	P	Reinforced Frame
F	Rubber Grip	Q	Scoring
G	Double Sided	R	Lanyard Ready
H	Nail Slot	S	Ergonomic
I	High Visbility	T	Folding Hook
J	Measurement Labels		
K	Vertical Read		

Measuring Tapes

- Blades are made of steel

Blade Width	Features Key	Brand	Item No.
3 ft Keychain Type			
Units: in/ft			
¼ in	A, E, M	STANLEY	**6R095**
6 ft Keychain Measuring Tapes			
Units: in/ft/cm			
13-mm	E	Milwaukee	**48LU51**
6 ft Measuring Tapes			
Units: in/ft			
¼ in	D	Crescent Lufkin	**6C196**
Units: in /ft/dia			
¼ in	D, F, S	Keson	**30NX09**
9 ft Measuring Tapes			
Units: in/ft			
½ in	B, E	DeWalt	**410D30**
10 ft Measuring Tapes			
Units: in/ft			
¼ in	A, D, M	STANLEY	**6R065**
Units: in/ft			
½ in	E	Us Tape	**6FYA8**
⅝ in	E, F, M	Keson	**787PH5**
Units: in/ft/Fractional			
⅝ in	E, L, O, P	Keson	**22N887**
Units: in/ft/mm			
½ in	E	Us Tape	**6DYR4**
Units: in/ft/mm/cm			
⅝ in	E, L, M	Keson	**787PJ1**
Units: mm			
13-mm	E	Crescent Lufkin	**44ZJ73**
12 ft Measuring Tapes			
Units: in/ft			
½ in	A, E	Westward	**1MKR4**
½ in	A, E, M	STANLEY	**5HK89**
½ in	A, L, M	STANLEY	**6A495**
½ in	C, F	STANLEY	**20JY20**
½ in	E	Skilcraft	**54XZ59**
½ in	E	Us Tape	**6FYA9**
⅝ in	A, E, F	Westward	**24Z086**
¾ in	A	Westward	**1MKR6**
¾ in	A, E, M	STANLEY	**6A496**
¾ in	E	Crescent Lufkin	**44ZJ75**
¾ in	E	Us Tape	**6DYP9**
Units: in/ft/Decimal			
½ in	E, M	STANLEY	**5C569**
Units: in/ft/Fractional			
⅝ in	E	Keson	**31C008**
⅝ in	E, L, O, P	Keson	**22N888**
⅝ in	F	Keson	**22N880**
¾ in	E	Westward	**55MN50**
Units: in/ft/Fractional/Decimal			
½ in	A, E	Westward	**1MKR3**
⅝ in	K, O	Keson	**22N896**
Units: in/ft/mm			
½ in	A, E	Westward	**1MKR5**
Units: in/ft/mm/cm			
¾ in	A, E	Westward	**24Z085**
16 ft FatMax Measuring Tapes			
Units: in/ft			
1¼ in	A, F, M	STANLEY	**5HL13**
16 ft Measuring Tapes			
Architects Scale, in/ft, 1⁄16 in			
1 in	F, G, I, J	Johnson	**6XUR8**
Units: in/ft			
¾ in	A	Westward	**1MKR7**
¾ in	A, E	Westward	**24Z088**
¾ in	A, M	STANLEY	**5LP67**
¾ in	A, M	STANLEY	**6A497**
¾ in	C, F	STANLEY	**20JY21**
¾ in	E	Us Tape	**6DYR0**
¾ in	F	Crescent Lufkin	**44ZJ76**
1 in	A, F, N	STANLEY	**24A342**
1 in	B, F, G	Komelon	**8YU93**
1 in	E	Milwaukee	**55ED71**
1 in	G, I, K	Keson	**44ZK02**
1⅛ in	E	Milwaukee	**55ED54**
1⅛ in	M, O	DeWalt	**49XJ13**
1 5⁄16 in	A, E	Milwaukee	**55ED65**
1 5⁄16 in	B, E	Milwaukee	**55ED58**
1 5⁄16 in	E	Milwaukee	**55ED59**
Units: in/ft/Fractional			
¾ in	A, E	Westward	**24Z089**
1 in	E	Westward	**55MN51**
1 in	E, L, O, P	Keson	**22N889**
1 in	F, O	Keson	**22N881**
25-mm	E, N, O, P, Q, R	Milwaukee	**53KA30**
27-mm	M	Milwaukee	**483F41**
Units: in/ft/Fractional/Decimal			
1 in	F, K, O	Keson	**22N897**
Units: in/ft/mm			
¾ in	A, F	Westward	**1MKR8**
¾ in	A, F, M	STANLEY	**5C572**
¾ in	A, M	STANLEY	**5HK94**
¾ in	E	Us Tape	**6DYR5**
Units: in/ft/mm/cm			
¾ in	A, E, F	Westward	**24Z091**
1 in	A, E	Westward	**24Z090**
1 in	E, L, M	Keson	**787PJ2**
Units: mm			
1 in	A, C, E	Fast Cap	**3WCC8**
25 ft FatMax Measuring Tapes			
Units: in/ft			
1¼ in	A, F, M	STANLEY	**5HL16**
25 ft Measuring Tapes			
Architects Scale, in/ft, 1⁄16 in			
1 in	I, F	Johnson	**6XUR9**
Engineers/Units: In./ft., ⅛, 1⁄16 & ft., 1⁄10, 1⁄100			
1 in	E, F, O	Keson	**22N856**
1 in	F, I	Keson	**22N885**
1 3⁄16 in	F, O	Keson	**22N872**
Engineers/Units: In./ft.,1/8, 1⁄16 & ft., 1⁄10, 1⁄100			
1 in	E, M	Keson	**787PH8**
Units: in/ft			
1 in	A, E, I	STANLEY	**2KFJ3**
1 in	A, E, M	STANLEY	**3CA87**
1 in	A, F	Westward	**1MKR9**
1 in	A, M	STANLEY	**5HK84**
1 in	A, M	STANLEY	**6A498**
1 in	B, E	Crescent Lufkin	**44ZJ79**
1 in	E	Milwaukee	**55ED72**
1 in	E	Us Tape	**6DYR1**
1 in	E, L	Skilcraft	**35MT19**
1 in	F	Crescent Lufkin	**44ZJ77**
1 in	G, I, K	Keson	**44ZK03**
1 in	G, I, K	Keson	**44ZK06**
1⅛ in	—	DeWalt	**787PH0**
1⅛ in	E	Milwaukee	**55ED55**
1⅛ in	E, H	STANLEY	**6CMY9**
1 3⁄16 in	F, O	Keson	**22N876**
1¼ in	B, E	FATMAX	**410D33**
1¼ in	B, G	DeWalt	**787PG7**
1¼ in	E, L	STANLEY	**45JX24**
1 5⁄16 in	A, B, E	Milwaukee	**55ED67**
1 5⁄16 in	A, E	Milwaukee	**55ED66**
1 5⁄16 in	E	Milwaukee	**55ED60**
1 5⁄16 in	E	Milwaukee	**55ED61**
Units: in/ft/Fractional			
1 in	A, J, M	STANLEY	**5LP66**
1 in	B, F, O	Keson	**22N875**
1 in	B, J, M	STANLEY	**784JN9**
1 in	C, E, I	STANLEY	**20JY18**
1 in	C, F	STANLEY	**20JY23**
1 in	E	Westward	**55MN52**
1 in	E, L, O, P	Keson	**22N890**
1 in	F, L	Keson	**22N873**
1 in	F, O	Keson	**22N882**
25-mm	E, P, Q, R	Milwaukee	**53KA31**
27-mm	P, M, T	Milwaukee	**483F42**
Units: in/ft/Fractional/Decimal			
1 in	F, K, O	Keson	**22N898**
Units: in/ft/mm/cm			
1 in	E, L, M	Keson	**787PJ3**
1 in	E, L, M	Keson	**787PJ4**
26 ft Measuring Tapes			
Units: in/ft			
1¼ in	F	DeWalt	**787PH1**
Units: in/ft/cm/m			
1 in	E, L	STANLEY	**783Y32**
Units: in/ft/mm			
1 in	A, E	Westward	**1MKT1**
1 in	A, M	STANLEY	**5HK85**
1 in	E	Us Tape	**6DYR2**
30 ft FatMax Measuring Tapes			
Units: in/ft			
1¼ in	A, F, M	STANLEY	**6XV48**
30 ft Measuring Tapes			
Units: ft			
1⅛ in	E	DeWalt	**783Y28**
Units: in/ft			
1 in	A, E	Westward	**1MKT2**
1 in	A, E, M	STANLEY	**3PU83**
1 in	A, E, M	STANLEY	**5C567**
1 in	A, E, N	STANLEY	**24A343**
1 in	E, L, M	Keson	**787PJ0**
1 in	G, I, K	Keson	**44ZK05**
1 in	M	DeWalt	**787PG9**
1 3⁄16 in	E, F	Keson	**56YM18**
Units: in/ft/Fractional			
1 in	E, L, O, P	Keson	**22N891**
25-mm	E, P, Q, R	Milwaukee	**53KA32**
33 ft Measuring Tapes			
Architects Scale, in/ft, 1⁄16 in			
1 in	I, F	Johnson	**6XUT0**
Engineers/Units: In./ft., ⅛, 1⁄16, & ft., 1⁄10, 1⁄100			
1 in	F, O	Keson	**22N886**
Units: in/ft			
1 in	G, I, K	Keson	**44ZK04**
Units: in/ft/Fractional			
1 in	E, L, O, P	Keson	**22N892**
35 ft FatMax Measuring Tapes			
Units: in/ft			
1¼ in	A, F, M	STANLEY	**3TB92**
35 ft Measuring Tapes			
1 in	A, E	Westward	**1MKT3**
1 in	A, E, M	STANLEY	**4CL55**
1 in	E	Milwaukee	**55ED73**
1 3⁄16 in	E	Keson	**56YM19**
1 5⁄16 in	A, E	Milwaukee	**55ED68**
1 5⁄16 in	E	Milwaukee	**55ED62**
Units: in/ft/Fractional			
1 in	E	Westward	**55MN53**
1 in	E, O	Keson	**22N883**
50 ft Measuring Tapes			
Units: in/ft			
⅜ in	A, T	Keson	**6XGR2**
⅜ in	T, U	Westward	**1MKT7**
⅜ in	T, U	Westward	**1MKT9**
100 ft FatMax Measuring Tapes			
Units: in/ft			
⅜ in	A, F, M	STANLEY	**6XV49**
100 ft Measuring Tapes			
Units: in/ft			
⅜ in	T, U	Westward	**1MKT8**
16 ft, 5 m Measuring Tapes			
Units: in/ft/mm			
1 in	E, L, O, P	Keson	**22N894**
Units: in/ft/mm/cm/m			
½ in	E	Milwaukee	**55ED56**
1 in	B, E	Milwaukee	**55ED74**
1 5⁄16 in	A, E	Milwaukee	**55ED69**
1 5⁄16 in	E	Milwaukee	**55ED63**
25-mm	E, P, Q, R	Milwaukee	**53KA33**
Units: mm			
19-mm	—	Insize	**55VN75**
26 ft, 8 m Measuring Tapes			
Units: in/ft/mm/cm/m			
½ in	E	Milwaukee	**55ED57**
1 in	B, E	Milwaukee	**55ED75**
1 5⁄16 in	A, E	Milwaukee	**55ED70**
1 5⁄16 in	E	Milwaukee	**55ED64**
Units: in/ft/mm/cm/m			
25-mm	E, P, Q, R	Milwaukee	**53KA34**
3 m Measuring Tapes			
Units: mm/cm			
16-mm	E	Keson	**22UY55**
Units: mm/cm/m			
16-mm	E, L, M	Keson	**787PJ5**
3.5 m Measuring Tapes			
Units: in/ft/mm			
½ in	A, M	STANLEY	**5C571**
5 m Measuring Tapes			
Units: mm/cm			
25-mm	E	Keson	**22UY56**
Units: mm/cm/m			
25-mm	E, L, M	Keson	**787PJ6**
8 m Measuring Tapes			
Units: mm/cm			
25-mm	E	Keson	**22UY57**
Units: mm/cm/m			
25-mm	E, L, M	Keson	**787PJ7**


4YRV1

449U32

Oil Gauging Tape Measures

Single Duty for Use on Derricks—Open reel with extra large winding drum that provides rapid line recovery.

- ¼"W Chrome Clad blade

Single and Double Duty for Oils—Open reel with heavy-duty frame. Blade is recessed beneath multiple layers of nickel and chrome electroplating for strong wear and corrosion resistance. Tape reads right to left.

- ½"W Chrome Clad blade with black markings

Plumb Bobs—Designed for submersion in oils and viscous liquids. Use to determine verticals. Innage method gives actual depth of the liquid in the tank.

Lufkin® US TAPE WORLD CLASS TOOLS SINCE 1876

Blade Length	Graduation Type	Graduations	Brand	Mfr. Model	Item No.
Single Duty for use on Derricks					
100 ft	in /ft	Feet to 10ths and 100ths	Crescent Lufkin	C2276DN	**4YRV1**
Single Duty for Light Oils					
25 ft	in /ft	Inches to 8ths	Crescent Lufkin	C1290SF590N	**4YRU4**
33 ft	in /ft	Inches to 8ths	Crescent Lufkin	C1291SF590N	**4YRU6**
Double Duty Blade for Heavy or Light Oils, English/Metric					
50 ft	in /ft/mm/cm	Top Side in Ft/In to 8ths, Bottom Side MM	Crescent Lufkin	CN1293SMEF59N	**4YRT1**
66 ft	in /ft/mm/cm	Top Side in Ft/In to 8ths, Bottom Side MM	Crescent Lufkin	CN1294SMEF59N	**4YRT3**
100 ft	in /ft/mm/cm	Top Side in Ft/In to 8ths, Bottom Side MM	Crescent Lufkin	CN1296SMEF59N	**4YRT9**
Double Duty Blade for Heavy or Light Oils					
33 ft	in /ft	Inches to 8ths	Crescent Lufkin	CN1291SF590N	**4YRR4**
50 ft	in /ft	Inches to 8ths	Crescent Lufkin	CN1293SF590N	**4YRR6**
75 ft	in /ft	Inches to 8ths	Crescent Lufkin	CN1295SF590N	**4YRT5**
100 ft	in /ft	Inches to 8ths	Crescent Lufkin	CN1296SF590N	**4YRT7**

Characteristics	Construction	Brand	Mfr. Model	Item No.
Plumb Bobs				
Cylindrical Body	Brass w/Hardened Steel Point	Us Tape	58888	**449U30**
Cylindrical Body, Pointed End Tip	Stainless Steel	Us Tape	58890	**449U31**
English Plumb Bob				
Cylindrical Body	Brass w/Hardened Steel Point	Us Tape	58899	**449U32**

3LJL7

4YP87

5ME45

1MKU3

1MKT9

6XGR5

KESON MAKE YOUR MARK · WESTWARD® · STANLEY®

Hand-Winding Measuring Tapes

BLADE TYPE

Fiberglass—Lightweight, inexpensive blades are rust-resistant and will not conduct electricity, making them an excellent choice for use in corrosive environments and in areas with electrical hazards.

Steel—Heavier, durable steel blades will not stretch. Provide a more accurate measurement than fiberglass. Excellent for surveying and engineering applications.

REEL TYPE

Both open and closed reels have a standard 1:1 rewind, as well as a 3:1 gear rewind.

Open—Open reels can be easily cleaned of dirt and debris, making them an excellent choice for outdoor, dirty, or dusty environments. Replacement blades are available at Grainger.com.

Closed—Closed-reel tapes have a compact profile that makes them well suited for indoor applications, particularly in tight spaces.

Blade Length	Graduation Type	Graduations	Brand	Item No.
Fiberglass Closed Reel, ½ in Blade				
50 ft	ft	1/10, 1/100 ft	Keson	**3LJN8**
50 ft	in/ft	⅛ in	Keson	**3LJL7**
100 ft	ft	1/10, 1/100 ft	Keson	**3LJN9**
100 ft	in/ft	⅛ in	Keson	**3LJL8**
Fiberglass Closed Reel, Double-Sided ½ in Blade				
30 m, 100 ft	in/ft/mm	⅛ in, 2 mm	Keson	**3LJT2**
Fiberglass Closed Reel, Speed Rewind ½ in Blade				
15 m, 50 ft	in/ft/mm	⅛ in, 2 mm	Keson	**3LJT1**
Fiberglass Open Reel, ½ in Blade				
50 ft	ft	1/10, 1/100 ft	Keson	**3LJP1**
50 ft	in/ft	⅛ in	Keson	**3LJL9**
100 ft	ft	1/10, 1/100 ft	Keson	**3LJP2**
100 ft	ft	1/10, 1/100 ft	Westward	**4YP86**
100 ft	in/ft	⅛ in	Keson	**3LJN1**
100 m	mm	2 mm	Keson	**3LJX2**
165 ft	ft	1/10, 1/100 ft	Keson	**4MHH9**
165 ft	in/ft	⅛ in	Keson	**4MHH8**
200 ft	ft	1/10, 1/100 ft	Keson	**4MHH3**
200 ft	in/ft	⅛ in	Keson	**3LJN2**
200 ft	in/ft	⅛ in	Keson	**4MHH5**
300 ft	ft	1/10, 1/100 ft	Keson	**3LJP4**
300 ft	in/ft	⅛ in	Keson	**3LJN3**
30 m	mm	2 mm	Keson	**3LJW9**
50 m	mm	2 mm	Keson	**3LJX1**
Fiberglass Open Reel, Double-Sided ½ in Blade				
50 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**3LJR2**
100 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**3LJR3**
200 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**3LJR4**
200 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**4MHH6**
300 ft	in/ft	1/10 ft, 1/100 ft	Westward	**4YP87**
300 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**3LJR5**
15 m, 50 ft	ft/mm/cm/m	1/10, 1/100 ft, 2 mm, cm, m	Keson	**3LJU4**
15 m, 50 ft	in/ft/mm	⅛ in, 2 mm	Keson	**3LJT3**
30 m, 100 ft	ft/mm/cm/m	1/10, 1/100 ft, 2 mm, cm, m	Keson	**3LJU5**
50 m, 165 ft	in/ft/mm	⅛ in, 2 mm	Keson	**4MHH7**
60 m, 200 ft	ft/mm/cm/m	1/10, 1/100 ft, 2 mm, cm, m	Keson	**6XGT4**
90 m, 300 ft	ft/mm/cm/m	1/10, 1/100 ft, 2 mm, cm, m	Keson	**3LJU6**
90 m, 300 ft	in/ft/mm	⅛ in, 2 mm	Keson	**3LJT6**
50 m	mm	2 mm, 5 mm	Keson	**4MHH2**
Fiberglass Open Reel, Double-Sided Speed Rewind ½ in Blade				
200 ft	in/ft	⅛ in and 1/10, 1/100 ft	Westward	**1MKT5**
200 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**6XGT8**
300 ft	in/ft	⅛ in and 1/10, 1/100 ft	Keson	**6XGU0**

Blade Length	Graduation Type	Graduations	Brand	Item No.
Fiberglass Open Reel, Speed Rewind ½ in Blade				
100 ft	ft	1/10, 1/100 ft	Keson	**6XGT5**
100 ft	in/ft/Fractional/Decimal	⅛ in and 1/10, 1/100 ft	STANLEY	**5ME45**
200 ft	ft	1/10, 1/100 ft	Keson	**6XGT7**
200 ft	in/ft	⅛ in	Keson	**6XGT6**
300 ft	ft	1/10, 1/100 ft	Keson	**6XGT9**
300 ft	in/ft/Fractional/Decimal	⅛ in and 1/10, 1/100 ft	STANLEY	**5ME46**
60 m, 200 ft	in/ft/mm	⅛ in, 2 mm	Keson	**4MHH4**
Nylon Clad Steel Open Reel, ⅜ in Blade				
100 ft	ft	1/10, 1/100 ft	Keson	**3LJV1**
100 ft	in/ft	⅛ in	Keson	**3LJV7**
200 ft	ft	1/10, 1/100 ft	Keson	**3LJV3**
200 ft	in/ft	⅛ in	Keson	**3LJV9**
Nylon Clad Steel Open Reel, Speed Rewind ⅜ in Blade				
100 ft	ft	1/10, 1/100 ft	Keson	**6XGR9**
200 ft	ft	1/10, 1/100 ft	Keson	**6XGT1**
200 ft	in/ft	⅛ in	Westward	**1MKU3**
300 ft	ft	1/10, 1/100 ft	Keson	**6XGT3**
Steel Closed Reel, ⅜ in Blade				
50 ft	in/ft	⅛ in	Westward	**1MKT7**
50 ft	in/ft	⅛ in	Keson	**6XGP8**
100 ft	in/ft	⅛ in	Westward	**1MKT8**
Steel Closed Reel, Speed Rewind ⅜ in Blade				
50 ft	ft	1/10, 1/100 ft	Keson	**6XGR3**
50 ft	in/ft	⅛ in	Westward	**1MKT9**
50 ft	in/ft	⅛ in	Keson	**6XGP6**
50 ft	in/ft	⅛ in	Keson	**6XGR2**
100 ft	ft	1/10, 1/100 ft	Keson	**6XGR6**
100 ft	in/ft	⅛ in	Keson	**6XGP9**
100 ft	in/ft	⅛ in	Keson	**6XGR1**
100 ft	in/ft	⅛ in	Keson	**6XGR5**
15 m, 50 ft	in/ft/mm	⅛ in, 2 mm	Keson	**6XGR4**
30 m, 100 ft	in/ft/mm	⅛ in, 2 mm	Keson	**6XGP7**
Steel Closed Reel, Double-Sided ⅜ in Blade				
30 m, 100 ft	in/ft/mm	⅛ in, 2 mm	Keson	**6XGR0**
Steel Closed Reel, Double-Sided Speed Rewind ⅜ in Blade				
30 m, 100 ft	in/ft/mm	⅛ in, 2 mm	Keson	**6XGR7**
Steel Open Reel, Speed Rewind ⅜ in Blade				
100 ft	in/ft	⅛ in	Keson	**6XGR8**
200 ft	in/ft	⅛ in	Keson	**6XGT0**
300 ft	in/ft	⅛ in	Keson	**6XGT2**

Description	Wheel Circumference	Measuring Range	Measuring Units	Handle Extended L	Brand	Item No.	CARRYING CASES Item No.
Measuring/Marking Wheels							
RR Series, Spoked Wheel w/Applicator, Poly	1 ft	9999.9 ft.	ft, in	38 in	Keson	4MHJ1	—
Measuring Wheels							
MP Series, Solid Wheel, Metal Frame	4 ft	99,999 ft.	10ths, ft	42 in	Keson	2UJZ3	2UJZ5
MP Series, Solid Wheel, Metal Frame	23 9⁄16 in	99,999 ft.	ft	42 in	Keson	2UJY8	21LP38
MP Series, Spoked Wheel, Metal Frame	4 ft	99,999 ft.	ft	42 in	Keson	2UJZ2	2UJZ5
MP Series, Spoked Wheel, Metal Frame	35 11⁄32 in	99,999 ft.	ft	42 in	Keson	2UJZ1	2UJZ5
RR Series, Dual Wheel, Solid	1 ft	9999.9 ft.	ft, in	38 in	Keson	2UJY5	2UJZ6
RR Series, Spike Wheel, Poly	4 ft	10000 ft.	10ths, ft	42 in	Keson	8CEK8	—
RR Series, Spoked Wheel, Metal Resin	39 17⁄64 in	9999.9 ft.	ft, in	38 ¾ in	Keson	2UJY7	21LP38
RR Series, Spoked Wheel, Poly	0.305 m	9999.9m	ft, in, m	38 in	Keson	4LGJ2	21LP38
RR Series, Spoked Wheel, Poly	1 ft	9999.9 ft.	ft, in	38 in	Keson	2UJY4	2UJZ6
RR Series, Spoked Wheel, Poly	39 17⁄64 in	9999.9 ft.	ft, in	38 ¾ in	Keson	2UJY6	2UJZ5
RRT Series, Spoked, Handle Brake and Reset	18 27⁄32 in	10,000 ft.	ft, in	38 in	Keson	6XGU2	2UJZ6
RRT Series, Spoked Wheel, Handle Brake and Reset	39 17⁄64 in	10,000 ft.	ft, in	39 in	Keson	6XGU3	2UJZ5
Spoked Wheel	1 ft	9999.11 ft.	10ths, ft	38 in	Keson	8RL45	—
32 Professional Series, Orange	33 49⁄64 in	100,000 ft.	ft	40 ¼ in	Rolatape	34F785	—
32 Professional Series Disk Wheel	4 ft	100,000 ft.	ft	45 ¾ in	Rolatape	5MG72	5MG75
32 Professional Series w/Stand	33 49⁄64 in	100,000 ft.	ft	40 ¼ in	Rolatape	34F786	—
RT Series Dual, Units in 10ths	1 ft	10,000 ft./in.	10ths	36 ½ in	Rolatape	34F782	—
RT Series Dual, Units in Inches	1 ft	10,000 ft./in.	in	36 ½ in	Rolatape	34F780	—
RT Series Single	1 ft	10,000 ft./in.	in	36 ½ in	Rolatape	34F781	—
RT Series Single	35 11⁄32 in	10,000 ft.	ft, in	36 in	Rolatape	34RP66	—
Spoked Wheel, Silver/Yellow	3 ¼ ft	10,000 ft	ft	42 ½ in	Rolatape	44G908	—
Dual Wheel	12 39⁄64 in	9999 ft., 11 in.	ft, in	42 ½ in	Westward	21LP37	—
Spoked Wheel	1 ft	9999 ft., 11 in.	ft, in	42 ½ in	Westward	21LP32	—
Spoked Wheel, Folding w/Stand	35 35⁄64 in	9999 ft., 11 in.	ft, in	39 ⅜ in	Westward	21LP36	—
Spoked Wheel, w/Carrying Case	1 ft	100,000 ft.	ft	36 in	Westward	1EJX5	—
Spoked Wheel w/Carrying Case	1 ft	100,000 ft.	ft	34 ¼ in	Westward	1EJX4	—
Spoked Wheel w/Stand	18 27⁄32 in	9999 ft., 11 in.	ft, in	43 ½ in	Westward	21LP40	—
Spoked Wheel w/Stand, Adds and Subtracts, w/Carrying Case	3 ft	100,000 ft.	ft	40 ½ in	Westward	1EJX6	—
Spoked Wheel w/Stand, Foldable	35 35⁄64 in	9999 ft., 11 in.	ft, in	40 15⁄16 in	Westward	21LP34	—
Spoked Wheel w/Stand, w/Carrying Case	1 m	100,000m	m	44 in	Westward	1EJX7	—
Spoked Wheel w/Stand, w/Carrying Case	3 ft	100,000 ft.	ft	40 ½ in	Westward	1EJX8	—
Measuring Wheels, Metric							
MP Series, Spoked Wheel, Metal Frame	1 m	99,999m	m	42 in	Keson	2UJY9	2UJZ5
RR Series, Spoked Wheel, Poly	1 m	9999.9m	dm, m.	38 ¾ in	Keson	4LGJ3	2UJZ5
Mechanical Measuring Wheels							
Rolatape 400 Series	4 ft	100,000 ft.	ft	45 ¾ in	Rolatape	44M541	5MG75
Replacement Counters							
Replacement Counter for Keson MP Series Wheels, 99,999 ft.	—	—	—	—	Keson	4LGJ4	—

2UJZ2
5MG72

Mechanical Measuring and Measuring/Marking Wheels

Keson RR Series—Easy-to-read magnified 5-digit counter, measuring up to 9999 ft. 11" without resetting. 3-pc. handle with cam lock adjusts to comfortable height.

Keson MP Series—Have metal frames with a centerline design for wheel balance.

Keson RRT Series—Feature a gearshaft center-aligned geared counter with a handle brake and reset.

Rolatape 32 Series—All-steel construction provides heavy-duty strength and durability.

Rolotape RT Series—Feature durable aluminum wheel and telescoping handle for storage.

Westward—Made of high-impact polycarbonate material.

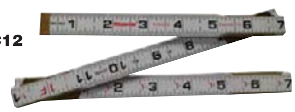
2UJZ4

Electronic Measuring Wheels

Description	Wheel Circumference	Measuring Range	Measuring Units	Handle Extended L	Brand	Item No.	CARRYING CASES Item No.
Electronic, Professional Series, Spoked Wheel, Metal Frame	4 ft	99,999 ft.	10ths, dm, ft, in, m	42 in	Keson	2UJZ4	2UJZ5
Electronic Spoked Wheel, ABS Frame	39 17⁄64 in	9999.99m	cm, ft, in, m	38 ½ in	Westward	21LP31	21LP38

Folding Wood Rules

All rules have abrasive-resistant epoxy finish and feature brass end caps, strike plates, and riveted lock joints.

30PC12


30PC18

Description	L (in.)	Graduations	Markings	Item No.
Engineers Rule	72 in	1⁄10 ft 1⁄100 ft, 1⁄16 in	Regular Outside Markings, Graduated Slide, 16 in Stud Centers In Red	30PC12
Folding Rule	72 in	1⁄16 in On Both Sides and Edges	Regular Outside Markings, 16 in Stud Centers In Red	30PC13
	72 in	1⁄16 in On Both Sides and Edges	Regular Outside Markings, Graduated Slide, 16 in Stud Centers In Red	30PC14
	78 ¾ in	1⁄16 in On English Side, Marked On Both Sides and Both Edges, Millimeter with Centimeter and Meter Markings On Metric Side, Reading Left to Right On Both Sides	Regular Outside Markings, Read Left to Right, 16 in Stud Centers In Red	30PC15
Two Way Reading Folding Rule	72 in	Feet, Inches, and 1⁄16 in On Both Sides and Edges	Embedded Markings, Flat Inside Lie Close to The Work, Read Left to Right or Right to Left, 16 in Stud Centers In Red	30PC11
Modular Mason Folding Rule	72 in	1⁄16 in On Both Edges, Every Joint Opens On Even Number	Economy/Engineered/Roman Brick, Facing Tile, 6 Scales In A 16 in Module	30PC16
Brick Mason Folding Rule	72 in	Brick Mason's Scale On Inside, Red Course Counters Numbered Consecutively, Vertical Inches to 1⁄16 in On Both Edges	Regular Outside Markings, Numbered Consecutively	30PC17
	72 in	Brick Mason's Scale On Inside, Red Course Counters Numbered Consecutively, Vertical Inches to 1⁄16 in On Both Edges	Regular Outside Markings, Numbered Consecutively	30PC18

55EP60

45JL17

489K11

21EK16

40EV37

Laser Distance Meters

Precise laser technology accurately measures distances to, in, and around all types of surfaces, equipment, and structures by transmitting and receiving laser reflection. Ideal for when greater accuracy is required for quick measurements. For indoor and outdoor use.

Bosch—Meters provide fast, easy, accurate measurements with a full range of features including; real-time distance, area, volume, indirect lengths and angles. Select models offer Bluetooth connectivity.

Milwaukee—Designed to provide the easiest measurements from all orientations. Screens offer maximum visibility in low light conditions. Impact-resistant overmold provides protection from tough jobsite conditions. Side-shot button allows an easier, more ergonomic experience when measuring in all directions. 489K09 includes memory storage for 3 reading. 489K10 and 489K11 include memory storage for 30 readings.

Leica DISTO—With ranges of up to 650 ft. and better than ±1⁄16" accuracy, per ISO standards, these units can be used in all areas of construction and MRO. All are ruggedly built and designed for site conditions. Multiple units incorporate view screens for outdoor use, and tilt sensors to help acquire additional calculations in hard-to-reach areas.

Leica Accessories—Target plates are made of gray plastic with reflective coatings to increase the effective range of the meter on nonreflective surfaces.

Maximum Measuring Distance	Accuracy	Battery Type	Distance Meter Functions	Includes	Brand	Mfr. Model	Item No.
Laser Distance Meters							
65 ft	±1/8 in	(2) AAA	Distance	(2) AAA Batteries	Bosch Blaze	GLM 20	**49YZ93**
	±1/8 in	AAA	Distance	—	Milwaukee	48-22-9801	**489K09**
130 ft	±0.08 in	(2) AAA	Area, Distance	(2) AAA Batteries	Fluke	FLUKE 417D	**55EP60**
150 ft	±1/16 in	AAA	Distance	—	Milwaukee	48-22-9802	**489K10**
164 ft	±1/16 in	(2) AA Alkaline	Distance, Indirect Measuring, Square Footage, Volume	(5) Target Cards, Hand Strap, Pouch	Bosch	GLM165-40	**450W76**
165 ft	±1/16 in	(2) AAA	Addition and Subtraction, Area, Distance, Inclinometer, Indirect Measure, Volume	Nylon Pouch	Bosch Blaze	GLM 50 C	**45JL17**
200 ft	±1/16 in	(2) AAA	Area, Distance	(2) AAA Batteries, Belt Clip, Holster, Lanyard	Leica Disto	E7100I	**31XM64**
330 ft	±1/16 in	(2) AAA	Continuous Measurement, Distance, Min/Max Measuring	Batteries, Belt Pouch, Lanyard	Leica Disto	D2	**49LX72**
	±1/16 in	AAA	Distance	—	Milwaukee	48-22-9803	**489K11**
400 ft	±1/16 in	Rechargeable Lithium-Ion	Area, Distance, Volume	Battery Charger, Hand Strap, Micro USB Cable, Pouch	Bosch	GLM 400 CL	**488Z80**
660 ft	±1/16 in	(2) AA	Area, Distance, Indirect Measure, Trapezoid, Triangles, Volume, Widths From A Safe Location	Batteries, Lanyard, Nylon Holster	Leica Disto	E7500I	**21EK16**
1,000 ft	±1/16 in	Rechargeable Lithium-Ion	Area, Create dxf Files to Load into CAD, Distance, Measure in Picture, Remote Measure Through P2P Function, Volume	Hand Loop, Holster, Smart Base Extension, USB Cable, USB Charger	Leica Disto	S910	**40EV37**

Description	Characteristics	Brand	Item No.
Leica Accessories			
Corner Target Plate	Self Adhesive, 2 ⅞ x 3 ⅞ in, Can Be Connected For Outside Corner Measurements	Leica Disto	**1UDN8**
Large Target Plate	8 ½ X 11 in	Leica Disto	**1UDN9**

468V57

4WMC2

23J474

494R20

Rotary Laser Levels

BOSCH JOHNSON

All kits include batteries, instruction manual, and carrying case.

LEVELING TYPES

Horizontal or Vertical Leveling: Rotary lasers that include vertical leveling can be rotated onto their side for vertical alignment and plumb applications.

Electronic and Pendulum Self-Leveling: More accurate results than manual lasers, and have an out-of-level indicator or alarm.

Manual-Leveling: External leveling screws and level vials are used to manually level the laser.

BEAM COLORS

Red Laser Beams: Cost effective and ideal for indoor use, most visible in low light situations.

Green Laser Beams: More visible than red beams, particularly in brighter light situations.

Leveling Type	No. of Beams	No. of Dots	No. of Lines	Laser Color	Range w/o Detector	Range w/ Detector	Accuracy	Includes	Brand	Item No.
Horizontal										
Exterior										
Electronic Self-Leveling	1	0	1	Red	100 ft	2,000 ft	$\pm 1/16$ in @ 100 ft	13 ft Grade Rod, 6V Battery Charger, Detector with Clamp and 9V Battery, Hard-Shell Carrying Case, Magnetic Target, NiMH Rechargeable Battery Pack, Remote Control, Tinted Glasses, Tripod	Johnson	**468V57**
	1	0	1	Red	200 ft	2,000 ft	$\pm 1/16$ in @ 100 ft	6V Battery Adapter, Detector with 9V Battery and Clamp, Hard-Shell Carrying Case, NiMH Rechargeable Battery Pack, Remote Control with 9V Battery	Johnson	**1YRU6**
Horizontal, Vertical										
Exterior, Interior										
Automatic Self-Leveling	1	0	0	Red	1,000 ft	1,000 ft	$\pm 1/8$ in @ 100 ft	LR10 laser receiver, remote control, aluminum tripod, sturdy grade rod, wall mount, two D batteries, three AA batteries, laser glasses, target card and hard carrying case	Bosch	**494R20**
Electronic Self-Leveling	2	1	2	Red	200 ft	2,000 ft	$\pm 3/16$ in @ 100 ft	6.4V Adapter, Alkaline Battery Pack, Batteries, Detector with Bracket, Hard-Shell Carrying Case, NiMH Battery, Remote Control, Tinted Glasses	Johnson	**4WMC2**
	2	1	2	Red	200 ft	1,500 ft	$\pm 3/16$ in @ 100 ft	6V Adapter, Alkaline Battery Compartment (Batteries Not Included), Detector with Battery, Glasses, Hard-Shell Carrying Case, Rechargeable Battery Pack, Remote Control with Battery, Target	Johnson	**6XUR2**
	2	1	2	Red	200 ft	1,500 ft	$\pm 1/8$ in @ 100 ft	9V Battery, Alkaline Battery Compartment (Batteries Not Included), Charger, Detector with Clamp, Hard-Shell Carrying Case, Multi-Function Mount, NiMH Rechargeable Battery Pack, Remote Control With 9V Battery, Target, Tinted Glasses	Johnson	**25K790**
	2	1	2	Red	200 ft	1,500 ft	$\pm 1/8$ in @ 100 ft	Alkaline Batteries, Soft-Sided Carrying Case, Tined Glasses	Johnson	**6XUR4**
	2	1	0	Red	200 ft	2,000 ft	$\pm 1/16$ in @ 100 ft	Battery Comparent (Batteries not Included), Detector with 9V Battery and Clamp, Fine Adjustment Plate, Hard-Shell Carrying Ca, Li-ion Battery Adapter, Li-ion Rechargeable Battery Pack, Remote Control with (2) AA Batteries, Sighting Scope, Vertical Bracket	Johnson	**23J474**
Manual Leveling	2	1	1	Red	200 ft	800 ft	$\pm 1/4$ in @ 100 ft	(4) AA Alkaline Batteries, Multi-Function Mount, Soft-Sided Carrying Case, Tinted Glasses, Wall/Ceiling Mount	Johnson	**25K787**
Pendulum Self-Leveling	2	1	1	Red	200 ft	800 ft	$\pm 1/8$ in @ 50 ft	Alkaline Batteries, Detector with Clamp, Hard-Shell Carrying Case, Tinted Glasses	Johnson	**1YRU3**
Interior										
Electronic Self-Leveling	2	1	2	Green	400 ft	1,200 ft	$\pm 1/8$ in @ 100 ft	6.4V Battery Adapter, Battery Comparent (Batteries not Included), Hard-Shell Carrying Case, NiMH Rechargeable Battery Pack, Remote Control with 9V Battery, Target, Tinted Glasses, Wall/Ceiling Mount	Johnson	**6XUR3**
Pendulum Self-Leveling	2	1	2	Green	400 ft	1,200 ft	$\pm 3/16$ in @ 100 ft	6.4V Battery Adapter, Battery Compartment (Batteries not Included), Hard-Shell Carrying Case, Magnetic Target, NiMH Rechargeable Battery Pack, Remote Control with 9V Battery, Tinted Glasses, Wall/Ceiling Mount	Johnson	**2CGJ9**

61KL71

21XK27

31CN23

BOSCH JOHNSON DEWALT

Line and Dot Lasers

Self-Leveling and Line and Dot Lasers offer fast setup and feature out-of-level indicators.

Item	Laser Color	No. of Beams	Leveling Type	Range w/ Detector	Range w/o Detector	Accuracy	Includes	Brand	Item No.
Bottom, Front, Left, Right, Top									
Dot Laser	Green	5	Self-Leveling	—	125 ft	±1/4 in @ 30 ft, ±1/8 in @ 30 ft	(2) AA Batteries, Hard Carry Case, Integrated Multi-Purpose Mount	Bosch	**61KL72**
Bottom, Front, Top									
Dot Laser	Green	3	Self-Leveling	—	125 ft	±1/8 in @ 30 ft	(2) AA Batteries, Hard Carry Case, Integrated Multi-Purpose Mount	Bosch	**61KL71**
Horizontal									
Flooring Laser	Red	2	Manual Leveling	—	65 ft	±1/16 in @ 20 ft	(3) AA Alkaline Batteries, Floor Target, Soft-Sided Carrying Case	Johnson	**21XK27**
	Green	2	Manual Leveling	—	150 ft	±1/16 in @ 20 ft	(3) AA Alkaline Batteries, Floor Target, Soft-Sided Carrying Case	Johnson	**21XK28**
Layout Laser Kit	Red	5	Electronic Self-Leveling	165 ft	100 ft	±1/8 in @ 30 ft	(4) AA Batteries, Kit Box	DeWalt	**31CN25**
Line and Dot Laser	Red	5	Electronic Self-Leveling	165 ft	100 ft	±1/8 in @ 30 ft	(3) AA Batteries	DeWalt	**31CL60**
Horizontal, Vertical									
Alignment Laser	Red	3	Self-Leveling	300 ft	200 ft	±3/32 in @ 30 ft	BM1 Positioning Device, Hard Case, Heavy Duty Pouch, Laser Target Plate	Bosch	**450W78**
Cross Line and Plumb Laser	Red	2	Electronic Self-Leveling	165 ft	50 ft	±1/8 in @ 30 ft	(3) AA Batteries	DeWalt	**31CL61**
Cross Line Laser	Red	2	Self-Leveling	30 ft	30 ft	±5/16 in @ 30 ft	(2) AA Batteries, Flexible Mounting Device	Bosch	**49Z231**
	Green	2	Self-Leveling	30 ft	30 ft	±3/16 in @ 30 ft	(2) AA Alkaline Batteries, Hard-Shell Carrying Case, Magnetic Target, Mounting Bracket, Tinted Glasses	Johnson	**468V65**
	Red	2	Self-Leveling	50 ft	50 ft	±1/8 in @ 33 ft	(3) AA Batteries, Belt Pouch, Laser Target, Positioning Device	Bosch	**49Z234**
	Green	2	Automatic Self-Leveling	100 ft	65 ft	±1/8 in @ 30 ft	Blow Mold Case, Bracket	DeWalt	**410D10**
	Red	3	Electronic Self-Leveling	165 ft	50 ft	±1/8 in @ 30 ft	(3) AA Batteries, Ceiling Mount, Kit Box	DeWalt	**31CN24**
	Red	2	Electronic Self-Leveling	165 ft	50 ft	±1/8 in @ 30 ft	(3) AA Batteries, Kit Box	DeWalt	**31CN23**
	Green	3	Automatic Self-Leveling	165 ft	100 ft	±1/8 in @ 30 ft	12V Battery, Blow Mold Case, Charger, Extended Ceiling Bracket	DeWalt	**49XH80**
	Red	2	Pendulum Self-Leveling	—	150 ft	±1/8 in @ 35 ft	(3) AA Alkaline Batteries, Magnetic Base, Soft-Sided Pouch	Johnson	**21XK25**
Dot Laser	Green	3	Self-Leveling	100 ft	100 ft	±1/8 in @ 30 ft	(2) AA Alkaline Batteries, Hard-Shell Carrying Case, Magnetic Target, Mounting Bracket, Tinted Glasses	Johnson	**468V66**
	Red	5	Pendulum Self-Leveling	—	200 ft	±1/8 in @ 50 ft	Magnetic Base, Magnetic Target, Mounting Strap, Multi-Mount, Soft-Sided Carrying Case, Tinted Glasses	Johnson	**1YRV2**
	Green	3	Automatic Self-Leveling	—	100 ft	±1/8 in @ 30 ft	Blow Mold Case, Bracket	DeWalt	**410D07**
Line Laser	Green	3	Self-Leveling	300 ft	200 ft	±3/32 in @ 30 ft	12V Lithium-Ion 2.0 Ah Battery, Alkaline Battery Adapter, BM1 Positioning Device, Charger, Hard Case, Pouch, Target Plate	Bosch	**450W80**
	Red	3	Self-Leveling	300 ft	200 ft	±3/32 in @ 30 ft	BM1 Positioning Device, Hard Case, Pouch, Target Plate	Bosch	**450W79**
Rotary/ Straight Line Laser	Green	1	Self-Leveling	100 ft	100 ft	±1/8 in @ 30 ft	(1) DK10 Ceiling Clip, (1) GLL100-40G Green-Beam Self-Leveling Cross-Line Laser, (1) Hard Carry Case, (1) LB10 L-Bracket, (4) AA Batteries	Bosch	**61DA41**

5TCX2

2CGJ8

Sheave, Industrial, Mining, and Pipe Alignment Lasers

JOHNSON

Industrial Alignment—Lasers are used to assist with installing and aligning heavy equipment, conveyors, and paint lines.

Mining Lasers—MSHA (Mining Safety and Health Administration) approved.

Pipe Laser—Waterpoof laser with easy grade input.

Sheave Alignment—Use 3 precision-ground magnetic targets and 1 precision line laser to assist with belt and sheave installation.

Item	For Use With	Includes	Beam Color	Range w/o Detector	Accuracy	Item No.
Industrial Alignment						
Alignment Laser	—	110V AC Adapter	Green	250 ft	±1/8 in @ 100 ft	**5TCW3**
		110V AC Adapter	Red	150 ft	±1/8 in @ 100 ft	**5TCW1**
		4-24V DC Connector	Red	150 ft	±1/8 in @ 100 ft	**5TCW2**
Cross Line Laser		Mounting Bracket	Green	150 ft	±1/16 in @ 10 ft	**5TCW8**
		Mounting Bracket	Red	100 ft	±1/16 in @ 10 ft	**5TCW7**
Laser Level		2 AA Alkaline Batteries	Green	250 ft	+/-1/16 in @ 100 Ft	**5TCX0**
		(2) CR123A Lithium Batteries	Red	150 ft	+/-1/16 in @ 100 Ft	**5TCW9**
Dot Laser Mounting Bracket	Nos. 5TCW1, 5TCW2, 5TCW3 Alignment Dot Lasers	—	—	—	—	**5TCW6**
Dot Laser Aperture Pack		—	—	—	—	**5TCW4**
Fan Angle Generator Lens		—	—	—	—	**5TCW5**
Mining Lasers						
Alignment Laser	—	(2) D Alkaline Batteries, Adjustable Spad Hanging Tabs	Green	3,000 ft	±1/8 in @ 100 ft	**23J481**
		(5) AA Alkaline Batteries, Adjustable Spad Hanging Tabs	Red	2,000 ft	±1/8 in @ 100 ft	**23J480**
		(2) AAA Alkaline Batteries, Adjustable Spad Hanging Tabs	Green	1,500 ft	±1/8 in @ 100 ft	**23J483**
		(2) AAA Alkaline Batteries, Adjustable Spad Hanging Tabs	Red	500 ft	±1/8 in @ 100 ft	**23J482**
Pipe Lasers						
Pipe Laser	—	(2) Targets, (5) Leg Sets, Alkaline Battery Pack, Charger, Hard Shell Carrying Case, NiMH Battery Pack, Remote Control	Red	800 ft	±1/16 in @ 100 ft	**5TCX2**
Pipe Laser Trivet Stand	Pipe Lasers	Soft-Sided Carrying Case	—	—	—	**23J476**
Sheave Alignment						
Magnetic Sheave Alignment Laser	—	Hard-Shell Carrying Case, Three Magnetic Targets	Green	150 ft	±1/16 in @ 10 ft	**5TCW0**
		(3) Targets, Batteries, Hard Shell Carrying Case	Red	100 ft	±1/16 in @ 10 ft	**2CGJ8**

Theodolite

Leica

Reflectorless and/or prism measurement capabilities. Data storage via USB memory stick.

Magnification	Field of View	Working Range	Accuracy	Includes	Item No.
20x	1° @ 30 ft	3,000 ft	+/-1/16 in @ $4\frac{63}{64}$ ft	Carrying Case, Plumb Bob, Rechargeable Battery, Tool Kit, Battery Charger	**53VU90**

Optical Levels and Transit Levels

- For additional laser and optical laser level accessories, see Grainger.com®

OPTICAL LEVELS

DeWalt Auto Level—Magnetically dampened compensator for optimum range and accuracy. Heavy-duty leveling base is fast and easy to set up and level. 360° horizontal circle for precise measuring of horizontal angles.

DeWalt Builder's Level—Protected leveling vial for jobsite durability. Heavy-duty leveling base is fast and easy to set up and level. 360° horizontal circle with vernier scale for precise measuring of horizontal angles.

Johnson Automatic Levels—Wire-hung compensator with reinforced housing has a large aperture for crisp images. Durable scope and bubble vial. Horizontal circle with easy-to-read black-on-white graduations. Large, stable base.

Johnson Builder's Levels—Has a horizontal circle graduated to single degrees and lens with protective sun shade. Horizontal tangent screw for precise movement control. Top-mounted leveling vial with large, easy-to-turn leveling screws. Suitable for light construction work.

TRANSIT LEVELS

DeWalt Transit Level—Transit capability allows user to determine vertical angles. 360° horizontal circle with vernier scale for precise measuring of horizontal angles. Protected leveling vial for jobsite durability. Heavy-duty leveling base is fast and easy to set up and level.

Johnson Builder's Transit Levels—Graduated circle reads to single degree and to ¼-degree by vernier. Vernier arc reads 0° to 45°. Clamp and tangent screws for positive leveling action when used as a level.

6ZTN5 4EB83 2CGJ5 25K798

Item	Magnification	Working Range	Accuracy	Includes	Brand	Item No.
Optical Levels						
Automatic Level	30x	400 ft	+/-1/16 in @ 200 ft	Hard Shell Carrying Case	Johnson	**6ZTN6**
Automatic Level	32x	450 ft	+/-1/16 in @ 200 ft	Hard Shell Carrying Case	Johnson	**6ZTN5**
Automatic Level Kit	26x	300 ft	+/-1/32 in @ 100 ft	Case, 8 Foot Aluminum Grade Rod And Tripod	DeWalt	**4EB82**
Automatic Level Kit	30x	400 ft	+/-1/16 in @ 200 ft	Tripod, Grade Rod, Carrying Case	Johnson	**25K797**
Automatic Level Kit	32x	450 ft	+/-1/16 in @ 200 ft	Tripod, Grade Rod, Carrying Case	Johnson	**25K798**
Builders Level Kit	20x	200 ft	+/-1/4 in @ 100 ft	Hard Carrying Case, Plumb Bob, ⅝ in Heavy Duty Tripod, 8ft Aluminum Grade Rod	DeWalt	**4EB83**
Builders Level Kit	22x	200 ft	+/-3/16 in @ 100 ft	Tripod, Grade Rod, Carrying Case	Johnson	**25K794**
Transits						
Builders Transit Level	22x	200 ft	+/-3/16 in @ 100 ft	Hard Shell Carrying Case	Johnson	**2CGJ5**
Builders Transit Level Kit	22x	200 ft	+/-3/16 in @ 100 ft	Tripod, 13 ft Grade Rod, Carrying Case	Johnson	**25K795**
Transit Level Kit	20x	200 ft	+/-1/4 in @ 100 ft	Hard Carrying Case, Plumb Bob, ⅝ in Heavy Duty Tripod, 8ft Aluminum Grade Rod	DeWalt	**4EB84**

Laser Level Accessories

3RXD4

1YRR6

Description	Includes	Item No.
Detectors and Targets		
Green Beam Rotary Laser Detector	Clamp and Battery	**49ET12**
Red Beam Two-Sided Laser Detector, Rotary	Clamp and Battery	**3RXD4**
Red Beam Laser Detector Kit	Clamp, Battery, Target Glasses	**3RXD5**
Red Beam Laser Detector, Grade Rod or Machine Mountable 240°	Clamp, Battery	**4WMC4**
Red Beam Laser Detector, Machine Mountable w/Magnets and Clamps	Magnets, Clamps, Cable, Charger, Rechargeable Batteries, Hard Shell Carrying Case	**4WMC6**
Remote Display for No. 4WMC6	Cable	**4WMC7**
Line Generator Laser Detector	Clamp and Battery	**3RXD9**
Red Beam Rotary Laser Detector	Clamp and Batteries	**3RXD6**
Green Beam Kit	Glasses, Target	**1YRR8**
Magnetic Floor Target, Red	—	**1YRT8**
Enhancement Glasses, Red	—	**1YRV4**
Mounts		
Interior Laser Pole	Carrying Bag	**1YRT2**
Wall and Ceiling	Carrying Bag	**1YRT3**
Telescoping Leveling Rods, Aluminum w/Silver Anodized Finish on Front and Hi-Visibility Yellow on Back		
Rectangular, 8 ft	—	**6ZTL6**
Rectangular, 13 ft	—	**1YRT4**
Rectangular, 16 ft	—	**1YRT5**
Telescoping Leveling Rods, Fiberglass		
Rectangular, 16 ft	Carrying Case	**6ZTL5**
Rectangular, 25 ft	Carrying Case	**6ZTL4**
Tripods, Aluminum		
Universal Tripod Kit Grade Rod 13 ft, Tripod 37 to 59 in	Adjustable Aluminum Tripod and Telescoping Aluminum Grade Rod	**1YRR6**
Tripod, Adjustable from 23 to 65 in	Tripod Adapter to Convert ⅝-11 to ¼-20	**1YRV5**
Tripod, Adjustable from 41 ¾ to 67 in	Carrying Strap	**1YRT7**
Tripod, Adjustable from 48 to 60 in	Carrying Strap	**6ZTL7**
Tripod, Adjustable from 49 ⅞ to 118 ⅛ in	Carrying Strap	**1YRT6**
Tripods, Fiberglass		
Tripod, Adjustable from 48 to 66 in	—	**6ZTL8**

Box Beam w/Hand Holes, Magnetic
4MRV5

I-Beam Magnetic
6A508

I-Beam Magnetic
4MRW1

Box Beam, Magnetic
4MRV4

Levels

Box Beam—Extruded aluminum box beam profile. Solid acrylic vials with easy read green vial fluid. Rubberized shock protecting end caps.

Box Beam, Magnetic—Extruded aluminum box beam profile. Strong holding rare earth magnets. Solid acrylic vials with green vial fluid. Rubberized shock protecting end caps.

I-Beam, Top-Reading—Aluminum frame with green acrylic vials. Top-read window and protective end caps.

I-Beam, Magnetic—All models have a full-length, strong holding magnetic strip.

Big J I-Beam—Oversized aluminum frames, and oversized acrylic barrel vials with green vial fluid.

Big J I-Beam, Magnetic—Magnetic edge holds level securely to ferrous surfaces. Rubberized, antishock, antislip end caps protect frame.

Bamboo Hardwood Levels—Easy-to-clean laminated bamboo frames have excellent tensile strength and durability. Won't absorb moisture, and resist heat and extreme cold without cracking or warping. Feature 6 acrylic vials, shock-resistant rubberized end caps, and metal binding frame.

Plastic Levels—Structo-Cast plastic frame is nonconductive and will not scratch fine wood or painted surfaces.

Description	Total No. of Vials	No. of Plumb Vials	No. of Level Vials	Brand	Item No.
Aluminum Levels					
24 in L					
Big J I-Beam Level, Nonmagnetic	3	2	1	Johnson	**48PG02**
Box Beam, Magnetic	3	2	1	Westward	**4MRW6**
Box Beam w/Hand Holes, Magnetic	3	2	1	Westward	**4MRV5**
Box Level, 4 Magnets, Yellow	3	2	1	Johnson	**48FX38**
Box Level, Nonmagnetic, Silver	3	2	1	Johnson	**48FX48**
Box Level, Nonmagnetic, Yellow	3	2	1	Johnson	**48FX34**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F43**
I-Beam	3	1	1	Westward	**4MRW5**
I-Beam, Magnetic	3	2	1	Johnson	**6A508**
I-Beam, Magnetic	3	2	1	Westward	**4MRW1**
I-Beam, Top Reading	3	2	1	Johnson	**6X992**
I-Beam, Top Reading	4	1	2	Westward	**4MRV7**
I-Beam Level, V Groove, Blue/Black	3	2	1	Westward	**32ZU57**
I-Beam Level, V Groove, Shock Resistant, Blue/Black/White	3	2	1	Westward	**32ZU64**
I-Beam Level, V Groove, Shock Resistant, with Magnet, Blue/Black/White	3	2	1	Westward	**32ZU65**
I-Beam Level, V Groove, with Magnet, Blue/Black	3	2	1	Westward	**32ZU58**
Magnetic Level	3	1	1	Johnson	**49ET13**
48 in L					
Big J I-Beam Level, Nonmagnetic	4	2	2	Johnson	**48PG03**
Big J Magnetic	4	2	2	Johnson	**49ET14**
Box Beam, Magnetic	3	2	1	Westward	**4MRV4**
Box Beam w/End Caps, Magnetic	3	2	1	Westward	**4MRV6**
Box Level, 8 Magnets, Yellow	3	2	1	Johnson	**48FX39**
Box Level, Nonmagnetic, Silver	3	2	1	Johnson	**48FX49**
Box Level, Nonmagnetic, Yellow	3	1	1	Johnson	**48FX35**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F44**
I-Beam	3	2	1	Westward	**4MRV8**
I-Beam, Magnetic	3	2	1	Johnson	**6A509**
I-Beam, Magnetic	3	2	1	Westward	**4MRW2**
I-Beam, Top Reading	3	2	1	Johnson	**2W396**
I-Beam Level, V Groove	3	2	1	Westward	**32ZU59**
I-Beam Level, V Groove, Shock Resistant	3	2	1	Westward	**32ZU66**
I-Beam Level, V Groove Shock Resistant with 8 Magnets	3	2	1	Westward	**32ZU67**
I-Beam Level, V Groove with 8 Magnets	3	2	1	Westward	**32ZU60**
I-Beam w/End Caps, Magnetic	3	2	1	Westward	**4MRV9**
72 in L					
Big J I-Beam Level, Nonmagnetic	5	3	2	Johnson	**48PG04**
Box Level, Nonmagnetic	3	2	1	Johnson	**48FX36**
Concrete Screed Level, Nonmagnetic	3	0	3	Milwaukee	**483F45**
I-Beam, Magnetic	3	2	1	Westward	**4MRW4**
I-Beam Level, Nonmagnetic, Blue/Black, LED Light	3	2	1	Westward	**32ZU61**
I-Beam Level, Nonmagnetic, V Groove, Shock Resistant, Blue/Black/White	3	2	1	Westward	**32ZU68**
I-Beam Level, V Groove, Shock Resistant with 12 Magnets Blue/Black/White	3	2	1	Westward	**32ZU69**
I-Beam Level, V Groove with 12 Magnets Blue/Black, LED Light	3	2	1	Westward	**32ZU62**
78 in L					
Box Level, Magnetic	3	2	2	Johnson	**48FX40**
I-Beam, Magnetic	5	3	2	Johnson	**6A510**
Bamboo Hardwood Levels					
Bamboo Level, 24 in L	6	4	2	Johnson	**6XUR6**
Bamboo Level, 48 in L	6	4	2	Johnson	**6XUR7**
Plastic Levels					
Non-Conductive, 24 in L	3	1	2	Johnson	**23J463**
Non-Conductive, 48 in L	3	1	3	Johnson	**23J465**

21XK41

1TLH8

Laser and Electronic Levels

Include batteries, carrying case, and instruction manual.

Laser Torpedo Levels—Levels have aluminum frames with acrylic vials and rare earth magnets. 1YRR9 has a rotating swivel head with laser beam that projects a point, or a vertical or horizontal line. Reads plumb, level, 45°, and cross check. 1YRT1 projects 3 continuous beams reading plumb, level, and 90°. Includes a leveling base.

Digital Electronic Levels/Inclinometers—1TLH7 has large LCD that simultaneously displays level and angle. Beep sound signals plumb and level. Feature automatic digit inversion, hold function, magnetic base, ¼-20" tripod thread, low-battery warning, and automatic shutoff. Angle displays in degrees; inclination displays in degrees or percent. Features lockable arm and laser beam. Magnetic base. 1TLH8 and 1TLH6 provide 4 x 90° readings of level, and tilt in degrees or percent slope with audible alert. 1TLH8 has a laser beam. Display can rotate up to 180°.

Description	Range (ft.)	Accuracy	L (in.)	Brand	Item No.
Laser Torpedo Levels					
Magnetic	0 to 90	±1/8 @ 50 ft in	7½	Johnson	**1YRR9**
Magnetic 3-Beam	0 to 90	±1/8 @ 50 ft in	9½	Johnson	**1YRT1**
Digital Electronic Levels/Inclinometers					
Digital Level	0 to 90	0.1°for 0°and 90°, All Other Angles: 0.2°	6 ½	Johnson	**21XK41**
Laser Level/ Angle Finder	0 to 90	±0.1°	23	Johnson	**1TLH7**
Level/ Inclinometer	0 to 90	±0.1°	6	Johnson	**1TLH6**
Laser Level/ Inclinometer	0 to 90	±0.1°	12	Johnson	**1TLH8**
Digital Level	—	±1/16 in	48	Stabila	**21CK33**
Digital Level	—	0.29 in		Stabila	**38HV82**

4MRW9

4MRX8

1TDY8

6XUU2

Levels and Vials

TORPEDO LEVELS

Glo-View Magnetic Rare Earth

Glo-View vial enhances readability in dim lighting. 2 V-groove working edges and 3 rare earth magnets. High-strength polymer frame.

Description	L	Total No. of Vials	Brand	Item No.
Torpedo Levels				
Magnetic, Aluminum	7 in	3	Milwaukee	**52ZW33**
Magnetic, Aluminum	9 in	3	Westward	**4MRX2**
Magnetic, Aluminum	12 in	4	Johnson Level & Tool	**49ZC22**
Magnetic, Aluminum, Bubble, Anodized	9 in	3	Westward	**32ZU63**
Magnetic Strip, Aluminum, Glow Illumination	9 in	3	Westward	**4MRW9**
Magnetic Strip, Aluminum, Top Read	9 in	3	Westward	**4MRX1**
Magnetic w/Molded Frame	9 in	3	Johnson	**23J462**
Magnetic Rare Earth, Aluminum	6 in	4	Johnson	**21XK11**
Magnetic Rare Earth, Aluminum	6 ¼ in	4	Westward	**4MRX9**
Magnetic Rare Earth, Aluminum	9 in	4	Westward	**4MRX8**
Magnetic Rare Earth, Aluminum	9 in	4	Johnson	**21XK12**
Die-Cast Aluminum, Magnetic	10 in	3	Milwaukee	**52ZW34**
Glo-View Magnetic Rare Earth	9 in	3*	Johnson	**1TDY8**
Strip Magnet Edge, Top Read	9 in	3*	Johnson	**1TDZ1**
I-Beam Level w/Ruled Edge, Aluminum	24 in	3*	Johnson	**23J464**
I-Beam Level w/Ruled Edge, Aluminum	48 in	3*	Johnson	**23J466**
Specialty Levels				
Cross Check Level	2.25 in	2	Johnson	**6C225**
Cross Check Level, Pkg. 10	2.25 in	2	Johnson	**6XUT9**
Line Level, Aluminum	3 in	1	Johnson	**6A512**
Pocket Level w/Magnetic Tip	5 in	1	Johnson	**2H394**

** Third vial is 45° vial.*

Dia. (in.)	L (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bulls Eye Levels					
0.472	—	Johnson	SM051	**6XUT1**	10
0.59	—	Johnson	SM053	**6XUT2**	10
0.669	—	Johnson	SM061	**6XUT7**	10
0.709	—	Johnson	SM054	**6XUT3**	10
0.787	—	Johnson	SM055	**6XUT4**	10
1.18	—	Johnson	SM100	**6XUT8**	10
1.18	—	Johnson	100	**2H366**	1
1.181	—	Johnson	SM056	**6XUT5**	10
1.575	—	Johnson	SM057	**6XUT6**	10
In-Mounting Base Level Vials					
—	2.15	Johnson	SM250	**6XUU1**	10
—	2.63	Johnson	SM252	**6XUU0**	10
Barrel Level Vials					
0.37	1.246	Johnson	SM904	**6XUU4**	25
0.371	1.373	Johnson	SM905	**6XUU3**	25
0.371	1.544	Johnson	SM901	**6XUU2**	25
0.371	1.544	Johnson	SM906	**6XUU6**	25
0.373	0.962	Johnson	SM920	**6XUU5**	25
0.5	1.375	Johnson	SM907	**6XUU7**	25
0.5	1.75	Johnson	SM909	**6XUU9**	25
Curved Level Vials					
0.358	1.173	Johnson	SM911	**6XUV0**	25

4GA95

5LE33

Electrician's Mini-Magnet Levels

Description	L	Total No. of Vials	No. of Plumb Vials	Mfr. Model	Item No.
Mini-Magnet Torpedo Level	5 ½ in	4	1	L77	**4GA95**
Magnetic Torpedo Level	8 ½ in	4	1	L107	**5LE33**

30PA71

6A511

4MRW3

21XK38

Angle Finders

Accurately measure angles with no interruptions from cold, heat, or magnetic fields. Select models feature magnetic bases and V-groove sides, while others feature plumb and level vials.

Description	Lens Dia.	No. of Level Vials	Brand	Mfr. Model	Item No.
Angle Finders and Pitch/Slope Locators					
0 to 90° Range					
Angle Finder	2 ¾ in	0	Westward	—	**30PA66**
Angle Finder	2 ¾ in	2	Westward	—	**30PA71**
Angle Finder, 3½ in Base	4 in	0	Westward	—	**30PA69**
Angle Finder, 3½ in Base	4 in	1	Westward	—	**30PA70**
Angle Finder, 5 in Base	4 in	0	Westward	—	**30PA67**
Angle Finder, 5 in Base	4 in	2	Westward	—	**30PA68**
Angle Finder, Magnetic Base	5	—	Starrett	AM-2	**2ZUY8**
Protractor/Angle Finder	5 ⅞ in	0	Johnson	700	**6A511**
Protractor/Angle Finder	3 15/16 in	—	Westward	—	**4MRW3**
Pitch and Slope Locator	5 ⅜ in	—	Johnson	750	**5LC25**

Description	Characteristics	No. of Level Vials	Brand	Mfr. Model	Item No.
Digital Angle Finders					
0 to 180° Range					
Angle Finder, Magnetic, 2 Button	(2) Button, Relative Measurements, Secures to Any Magnetic Surface, LCD Display	0	Johnson	1886-0100	**21XK29**
Angle Finder, Magnetic, 2 Button	(2) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display	0	Johnson	1886-0000	**21XK30**
Angle Finder, Magnetic, 3 Button	(3) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display, Hold Function	0	Johnson	1886-0200	**21XK36**
Angle Finder, Magnetic, V-Groove	(3) Button, Absolute and Relative Measurements, Secures to Any Magnetic Surface, LCD Display, Hold Function, V-Groove for Mounting on Steel Tubing or Pipe	0	Johnson	1886-0300	**21XK37**
Angle Finder, Magnetic, V-Groove	(3) Button, Absolute and Relative Measurements, LCD Display, Hold Function, V-Groove for Mounting on Steel Tubing or Pipe	1	Johnson	1886-0400	**21XK38**
0 to 225° Range					
Angle Finder, Aluminum 10 in L	—	1	Johnson	1750-1000	**21XK40**
Angle Finder, Aluminum 12 in L	—	2	Johnson	1750-1200	**21XK39**
0 to 360° Range					
Angle Finder, Stainless Steel 7 in L	—	0	Johnson	1888-0700	**21XK31**
Angle Finder, Stainless Steel 11 in L	—	0	Johnson	1888-1100	**21XK32**
Angle Finder, Stainless Steel 19 in L	—	0	Johnson	1888-1900	**21XK33**

Scan. Order. Done.
Details on page A1.

Adjustable Trammel
3ZH21

Contour Gauge
2H378

Large-Capacity Chalk Line Reel
4MHF4

Combination Square
4MRX3

Pivot Square
2GYA2

Digital Protractor
21XK42

Layout Equipment

Description	Brand	Item No.
Marking Tools		
⅝ to 1½ in Precision Adjustable Trammel, 6 in L	General	3ZH21
Contour Gauge, 6 in	Johnson	2H378
Precision Pencil Compass, 9 in Diameter	General	3ZH45
Carpenter Pencil, 7 in, Pkg. of 12	Johnson	3A920
Pencil/Crayon Sharpener	Johnson	1TDZ2
Lumber Crayon, Red, Pk. 12	C.H. Hanson	2GYC1
Lumber Crayon, Yellow, Pk. 12	C.H. Hanson	2GYC2
Lumber Crayon, Black, Pk. 12	C.H. Hanson	2GYC3
Chalk Line Reels and Line		
100 ft Large Capacity Blue Chalk Line Reel, 8 oz Capacity, 6:1 Gear Ratio	Irwin Strait-Line	45TY59
100 ft Large Capacity Blue Chalk Line Reel, 8 oz Capacity, 3:1 Gear Ratio	Irwin Strait-Line	45TY60
100 ft Standard Blue Chalk Line Reel, 3 oz Capacity, 3:1 Gear Ratio	Keson	492U64
100 ft Large Capacity Red Chalk Line Reel, 8 oz Capacity, 3:1 Gear Ratio	Irwin Strait-Line	45TY61
150 ft Large Capacity Chalk Line Reel, 20 oz Capacity	Irwin Strait-Line	45TY57
150 ft Large Capacity Blue Chalk Line Reel, 12 oz Capacity, 1:1 Gear Ratio	Keson	492U65
150 ft Large Capacity Chalk Line Reel, 24 oz. Capacity	Keson Giant	4MHF4
100 ft Large Capacity Chalk Line Reel, 15 oz Capacity	Keson Giant	2UJZ7
100 ft Large Capacity Chalk Line Reel, Mach 8 oz Capacity	Irwin Strait-Line	45TY58
100 ft Large Chalk Line Reel, Mach 8 oz Capacity	Irwin Strait-Line	45TY56
100 ft Replacement Chalk Line for 6XGL1	Keson	6XGL3
110 ft Replacement Chalk Line With Handle for 2UJZ7	Keson	6XGL4
140 ft Replacement Chalk Line With Handle for 2UJZ7	Keson	6XGL5
150 ft Replacement Chalk Line With Handle for 2UJZ7	Keson	6XGL6
Marking Chalk Refills		
8 oz, Blue, Temporary	Irwin Strait-Line	5MD41
8 oz, Blue, Standard	Keson	4MHF5
8 oz, Blue, Waterproof	Keson	6XGL9
8 oz, Red, Standard	Keson	4MHF6
8 oz, Red, Waterproof	Keson	6XGL8
8 oz, Red, Permanent	Irwin Strait-Line	3JDJ1
8 oz, White, Standard	Keson	4MHF7
8 oz, Yellow, Standard	Keson	4MHF8
8 oz, Black, Standard	Keson	4MHF9
8 oz, Black, Waterproof	Keson	6XGN0
8 oz, Black, Permanent	Irwin Strait-Line	3JDJ3
8 oz, Glo-Orange, Standard	Keson	4MHG1
2.5 lb, Blue, Temporary	Irwin Strait-Line	5MD48
2.5 lb, Red, Permanent	Irwin Strait-Line	5MD49
2.5 lb, Fluorescent Orange, High Visibility	Irwin Strait-Line	5MD50
3 lb, Blue, Concentrated	Keson	4MHG9
3 lb, Red, Concentrated	Keson	4MHG8
3 lb, Black, Standard	Keson	6XGL7
3 lb, Black, Concentrated	Keson	4MHH1
5 lb, Black, Permanent	Irwin Strait-Line	3JDJ5
5 lb, Blue, Temporary	Irwin Strait-Line	3VU87
5 lb, Blue, Standard	Keson	4MHG3
5 lb, Blue, Waterproof	Keson	6XGN2
5 lb, Red, Standard	Keson	4MHG2
5 lb, Red, Permanent	Irwin Strait-Line	3VU86
5 lb, Red, Waterproof	Keson	6XGN1
5 lb, White, Standard	Keson	4MHG4
5 lb, Yellow, Standard	Keson	4MHG5
5 lb, Black, Standard	Keson	4MHG6
5 lb, Black, Waterproof	Keson	6XGN3
5 lb, Glo-Orange, Standard	Keson	4MHG7
Plumb Bobs		
Brass Plated, 8 oz, 8.7 in L.	STANLEY	3UE19
Brass Plated, 8 oz.	Johnson	6C235
Brass Plated, 16 oz.	Johnson	5LC21
Nickel Plated, 5 oz.	Johnson	6ZTP0
Nickel Plated, 8 oz.	Johnson	6ZTP1
Nickel Plated, 12 oz.	Johnson	6ZTP2

Description	Brand	Item No.
Manual-Reading Miter Protractors		
7 in L, Dual Scale 0° to 360°	Starrett	5UAT6
7 in L, 0° to 360°	Starrett	2ZUY6
12 in L, 0° to 360°	Starrett	2ZUY7
Combination Squares		
6 in, w/Zinc Head, Black in./mm Graduations	Johnson	5LC23
6 in, w/Zinc Head, Etched in./mm Graduations	Johnson	21XK20
6 in, w/Zinc Head	Westward	4MRX3
12 in, w/Zinc Head, in. Graduations	Johnson	6X996
12 in, Stainless Steel w/Zinc Head, in. & mm Graduations	Johnson	21XK22
16 in, w/Zinc Head, in./mm Graduations, Steel Blade	Johnson	2H392
16 in, w/Zinc Head, in./mm Graduations, Stainless Steel Blade	Johnson	21XK21
12 in, w/Die-Cast Handle, Chrome-Plated Blade w/Vial, English	STANLEY	6R185
12 in, w/Aluminum Head	Westward	4MRY1
Carpenter/Rafter/Framing Squares		
8 y 12 in Steel Carpenter Square, EZ Read Thermal Bonded Markings	Johnson	21XK18
8 y 12 in Steel Carpenterfts Square, Permanent Stamped Markings	Johnson	1TDY9
8 y 12 in Steel Carpenterfts Square	Westward	4MRX7
16 y 24 in Black Aluminum Rafter Square	STANLEY	6R150
16 y 24 in Black Aluminum Framing Square	Johnson	6C227
16 y 24 in Steel Framing Square	Johnson	21XK17
16 y 24 in Black Aluminum Framing Square	Westward	4MRX6
16 y 24 in Aluminum Framing Square	Johnson	5W189
7 in Aluminum Milled Rafter Angle Square	Johnson	6A513
7 in Aluminum Rafter Angle Square	Westward	4MRX4
7 in Aluminum Rafter Square	Johnson	21XK19
7 in Quick Square, Buffed	STANLEY	38WF34
12 in Milled Aluminum Rafter Angle Square	Johnson	6C228
Pivot Square Precision Aluminum Layout Square, Pivots to Lock in Angle	C.H. Hanson	2GYA2
Brass Stair Gauge Set	Johnson	2H390
Drywall Squares		
54 in Heavy-Duty Aluminum Square	Johnson	5LC30
48 in Adjust-A-Square Aluminum T-Square	Johnson	6C232
48 in Fiyed Head Aluminum T-Square	Johnson	6A514
47⅞ in Aluminum T-Square	Westward	4MRX5
24 in Rock Ripper Scoring Square	Johnson	5LC32
8 in Aluminum Try Square	Johnson	21XK15
8 in Bamboo Try Square	Johnson	21XK16
Bevels, Rules, & Straight Edges		
10 in Bamboo Sliding T-Bevel	Johnson	21XK13
10 in Aluminum Sliding T-Bevel	Johnson	21XK14
6 in Pocket Clip Rule-Std.	Johnson	2H396
6 in Pocket Clip Rule-Metric	Johnson	2H398
12 in Architectfts Rule, in. Graduations	Johnson	21XK23
12 in Aluminum Rule	Johnson	2H404
24 in Aluminum Rule	Johnson	2H406
36 in Aluminum Yardstick	Johnson	2H408
48 in Aluminum Straight Edge	Johnson	6C233
60 in Aluminum Straight Edge	Johnson	2H412
72 in Aluminum Straight Edge	Johnson	6C234
96 in Aluminum Straight Edge	Johnson	2H415
Full Base Style		
Digital Depth Gauge	Johnson	21XK34
Digital Gauges/Calipers/Protractors/Indicators		
Digital Bore Gauge	Johnson	21XK45
Fractional-Display Digital Calipers without SPC Output		
Digital Caliper, 0 to 6 in Range, 1 9/16 in D Jaw	Johnson	21XK35
Digital Gauges/Calipers/Protractors/Indicators		
Digital Protractor, -360° to 360°	Johnson	21XK42
Digital Indicator, 0.002 mm, 0.0001 in	Johnson	21XK44
Digital Indicator, 0.002 mm, 0.0001 in	Johnson	21XK43

Wall Sensors, Scanners, and Stud Finders

MultiScanner x85 OneStep—Detects temp. changes in water-filled hydronic radiant heating. The ultra-bright LCD screen, SpotLite Pointer, and audio tone indicate target location.

MultiScanner i520 OneStep—Locates both the center and edges of wood or metal studs. The ultra-bright LCD screen, SpotLite Pointing System, and audio tone indicate target location. ACT technology directs users back if starting was over a stud.

StudSensor Pro LCD—Features SpotLite Pointing System with LCD indicator and audio signal. Also features TruCal instant calibration.

StudSensor Pro SL—Stud Scan mode locates the edges of wood or metal studs up to ¾" (19mm) deep. DeepScan mode doubles the scanning depth to 1½" (38mm). SpotLite Pointing System shines a beam of light on the wall to identify the target.

MetalliScanner m40—Locate ferrous and nonferrous metal. Use Pinpoint Scan to locate small metal objects. Use Wide Scan to detect metal in walls or concrete.

Stud Finder Plus Stud Finder—Locates metal studs or nails with indicator magnet. Has built-in level vial.

FATMAX Stud Sensor 300—Designed with auto calibration, AC detection for live wires up to 2" D, and marking channel. OnePass technology locates stud centers. Deep scan senses metal up to 3" through material

Stud Sensors—24A379 has visual indicators and indicates edges of stud. 24A378 feature AC detection, for live wires up to 2" D. I. 24A378 features OnePass technology locating studs, and a marking channel.

GMS 120 Multi-Scanner—Finds magnetic and nonmagnetic metals, power cables, wood, and plastic pipes. Includes 9V battery and hand strap.

1TJT4

5LC22

Description	Scans	Scan Depth	Brand	Mfr. Model	Item No.
MultiScanner x85 OneStep	Live AC, Water-Filled Heated PEX Pipes, Wood/Metal Studs	2 in	Zircon	65244	**30HK82**
MultiScanner i520 OneStep	Stud Center, Metal, and Hot Unshielded AC Wiring	Metal 3 in, Stud 1½, Voltage 2	Zircon	61910	**1TJT4**
MultiScanner i520 OneStep	Metal, Studs, Wood	Metal 3 in, Stud 1½ in, Voltage 2 in	Zircon	66253	**19LZ17**
StudSensor Pro LCD	Stud Edges and Hot Unshielded AC Wiring	Stud 1½ in, Voltage 2 in	Zircon	61981	**1TJT6**
StudSensor Pro SL	Stud Edges	Stud 1½ in	Zircon	61899	**4GU28**
MetalliScanner m40	Wood, Drywall, Paneling, Tile, Stucco, Plaster, Concrete, and Other Non-Metallic Surfaces	Ferrous Up to 4 in, Non-Ferrous Up to 2 in	Zircon	64068	**6ZEU0**
Stud Finder Plus Stud Finder	—	—	Johnson	160	**5LC22**
FATMAX Stud Sensor 300	Drywall, Wood, Paneling, and Other Wall Materials	1½ in	STANLEY	FMHT77407	**31CN14**
Stud Sensor 50		¾ in	STANLEY	77-050	**24A379**
Stud Sensor 200		¾ in	STANLEY	STHT77406	**24A378**
GMS 120 Multi-Scanner	Copper, Live Wires, Metal, Wood	4¾ in	Bosch	GMS 120	**30D487**
D-Tect 200C Wall Scanner	Copper, Empty Plastic Pipes, Live Wires, Metal, Water-Filled Plastic Pipes, Wood	7 ⅞ in	Bosch	D-tect200C	**792J04**

Construction Calculators

All calculators come with batteries, slide covers or doors, paperless tape, auto shutoff, and user's guides.

MATERIAL ESTIMATORS

All calculators work in feet-inch-fractions, decimals, metric, linear, area, volume, and right angle solutions.

Advanced, Desktop, and Contractors Calculator with Trig—Provides circle, arc, dms, blocks, panels, and footings.

Material Estimating Calculator—2WJE6 estimates materials and costs for concrete, fences, decks, bricks, tile, flooring, gravel painting, drywall, and paneling. 9XG03 designed for metric measurements. Stores user-defined materials and sizes in the memory. Provides instant calculation also for bulk bags, BTUs, flooring, and tile.

DIGITAL PLAN MEASURES

Basic Handheld Plan Measure—Calculates linear, area, and volume in imperial and metric scales.

Advanced Handheld Plan Measure—Features expanded custom scales with optional PC interface.

ELECTRICIANS AND PIPE TRADES CALCULATORS

Come with protective case with cover.

Electricians Calculator—Provides wire and conduit sizes, voltage drops, and is updatable for code changes.

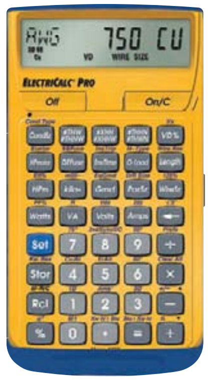
Pipe Trades Math Calculator—4MHJ3 calculates right angles, offsets, complex rolling offsets, fitting angles, bends, slopes percent grades, drops, parallel pipe cutbacks, feet-inch fractions, trigonometry, weight/volume conversions, flow rates, and pressures. 22UN69 calculates dimensional math, fractions (ruler, proper, improper, and mixed), unit conversions, ratios and proportions, trigonometry/trig and plane geometry (right triangles/angles, circular, and polygonal shapes). Works with exponents, square roots, and reciprocals.

MEASURING AND CONVERSION CALCULATORS

Feet-Inch-Fraction-Metric Dimensional Calculator—Provides calculations and material estimating for linear, area, volume, circles, and arcs.

Unit Conversion Calculator—Features 400 built-in standard to metric unit conversion combinations.

5LN15



34F811

Description	Item No.
Material Estimators	
Basic Contractors Calculator	**4GU25**
Advanced Contractors Calculator	**4GU22**
Desktop Contractors Calculator	**2DDX8**
Contractors Calculator with Trig	**4GU23**
Material Estimating Calculator, Auto Shutoff, Memory, Paperless Tape	**2WJE6**
Material Estimating Calculator, mm & Imperial	**9XG03**

Description	Item No.
Digital Plan Measures	
Basic Handheld Plan Measure	**5LN14**
Advanced Handheld Plan Measure	**5LN15**
Electricians and Pipe Trades Calculators	
Electrician's Calculator	**34F811**
Pipe Trades Math Calculator	**4MHJ3**
Portable Tradesman Calculator	**22UN69**

Description	Item No.
Measuring and Conversion Calculators	
Feet-Inch-Fraction-Metric Dimensional Calculator	**2TJ76**
Unit Conversion Calculator	**1JYX8**

General Purpose
24C974

General Purpose
23TL79

Insulated
26X272

Miniature
6XV45

Hacksaws and Blades

Blade Length	Blade Material	Overall Length	Teeth per Inch	Handle Material	Brand	Item No.
General Purpose Hacksaws						
12 in	Bi-Metal	6½ in	24	Aluminum	LENOX	**24C974**
12 in	Bi-Metal	12 in	24	Aluminum	STANLEY	**45JX01**
12 in	Bi-Metal	15 in	24	Plastic	STANLEY	**3Q044**
12 in	Bi-Metal	16 in	24	Plastic	LENOX	**2RXC6**
12 in	Bi-Metal	16 in	24	Rubber	LENOX	**2RXC5**
12 in	Bi-Metal	16 in	24	Aluminum	Westward	**46A921**
12 in	Bi-Metal	17½ in	24	Multi-Component	Westward	**5WFV9**
12 in	Steel	15½ in	24	Multi-Component	STANLEY	**23TL79**
12 in	Steel	17 in	24	Rubber	STANLEY	**4FE36**
12 in	Steel	17¾ in	24	Multi-Component	STANLEY	**48A535**
Insulated Hacksaws						
12 in	Steel	18 in	24	Steel	Wiha Tools	**26X272**
Insulated Miniature Hacksaws						
6 in	Steel	9½ in	25	Rubber	Knipex	**10G351**
Miniature Hacksaws						
6 in	Steel	9¾ in	32	Steel	Westward	**5WFW7**
6 in	Steel	10 in	32	Plastic	Westward	**5WFW6**
6 in	Steel	12 in	32	Wood	Westward	**5WFW5**
10 in	Metal	14 in	10, 24	Rubber	STANLEY	**4HJ29**
10 in	Steel	11 in	10	Aluminum	STANLEY	**1C069**
10 in	Steel	11 in	24	Plastic	STANLEY	**6XV45**
12 in	Bi-Metal	10 in	10	Aluminum	LENOX	**4RA69**
NonSparking Hacksaws						
11 ¾ in	Beryllium Copper	21¼ in	18	—	Ampco	**46C099**

Blade Length	Teeth per Inch	Blade Material	Blade Width	Blade Thickness	Brand	Item No.	Pkg. Qty.
Hacksaw Blades							
6 in	32	Steel	¼ in	0.018 in	Westward	**5WFW8**	10
10 in	24	Bi-Metal	½ in	0.03125 in	LENOX	**4RA70**	10
12 in	18	Bi-Metal	½ in	0.03125 in	STANLEY	**5R858**	1
12 in	18	Bi-Metal	½ in	0.022 in	Westward	**38EY26**	1
12 in	18	Bi-Metal	½ in	0.03125 in	LENOX	**4RA71**	10
12 in	18	Bi-Metal	½ in	0.03125 in	LENOX	**4RA74**	100
12 in	24	Bi-Metal	½ in	0.03125 in	STANLEY	**5R856**	1
12 in	24	Bi-Metal	½ in	0.022 in	Westward	**38EY27**	1
12 in	24	Bi-Metal	½ in	0.03125 in	LENOX	**4RA72**	10
12 in	24	Bi-Metal	½ in	0.03125 in	LENOX	**4RA75**	100
12 in	32	Bi-Metal	½ in	0.03125 in	STANLEY	**5R854**	1
12 in	32	Bi-Metal	½ in	0.022 in	Westward	**38EY28**	1
12 in	32	Bi-Metal	½ in	0.03125 in	LENOX	**4RA73**	10
12 in	32	Bi-Metal	½ in	0.03125 in	LENOX	**4RA76**	100

Carpenter
6XV43

Flush Cut
4VN38

Coping
5R770

Jab
5MZ17

PVC
5AHC8

Hand Saws and Blades

Blade Length	Overall Length	Teeth per Inch	Handle Material	Brand	Item No.
Carpenter Saws					
10 in	15 in	11	Wood	STANLEY	**23TL85**
15 in	18½ in	7	Wood	Westward	**21HT84**
15 in	18½ in	9	Wood	Westward	**5WFW2**
15 in	18 in	8	Wood	STANLEY	**6XV43**
15 in	18 in	8	Wood	STANLEY	**5C920**
15 in	18 in	9	Wood	Westward	**46A926**
20 in	23 in	11	Plastic	STANLEY	**1UK48**
20 in	25 in	8	Wood	STANLEY	**1HH22**
20 in	26 in	9	Wood	Westward	**46A924**
26 in	29½ in	11	Wood	STANLEY	**45JX02**
Coping Saws					
6½ in	13¼ in	15	Rubber	STANLEY	**5R770**
6½ in	13 in	6	Multi-Component	STANLEY	**5R771**
Flush-Cut Carpenter Saws					
4¾ in	11 in	22	Rubber	STANLEY	**4VN38**
5 in	9¼ in	52	Aluminum	—	**4EEJ9**
General Purpose Hacksaws					
12 in	15½ in	24	Multi-Component	STANLEY	**23TL79**
12 in	17¾ in	24	Multi-Component	STANLEY	**48A536**
12 in	6½ in	24	Aluminum	LENOX	**24C974**
Jab Saws					
6 in	13¾ in	8	Plastic	STANLEY	**23TL80**
6 in	11 in	8	Plastic	STANLEY	**1C073**
6 in	12 in	10, 14, 6	Aluminum	LENOX	**3GPC4**
6 in	9 in	6	Wood	STANLEY	**5R801**
6 in	9 in	8	Plastic	STANLEY	**6XV44**
6½ in	11 in	8	—	Westward	**5MZ17**
7 in	10 in	10, 25	Steel	STANLEY	**5R804**
12 in	18 in	11	Multi-Component	STANLEY	**2GXF8**
Precision Carpenters Saws					
6 in	6 in	9	Plastic	STANLEY	**5R811**
PVC Saws					
12 in	16 in	10	Rubber	LENOX	**5AHC8**
12 in	16 in	10	Rubber	LENOX	**5AHC8**
18 in	18 in	10	Rubber	LENOX	**31AC23**

Teeth per Inch	Brand	Item No.	Pkg. Qty.
Coping Saw Blades			
15	STANLEY	**5R775**	4
PVC Saw Blades			
10	LENOX	**4RA79**	1
10	LENOX	**4RA80**	1

Mobile Workstation
3FRA9

Workmate Project Center
6Z842

Workstations

FATMAX Mobile Workstation—4-in-1 unit includes toolbox, part bins, portable tray, and large lower bin. Structural foam construction with front locking latch.

Workmate Project Centers—Can be used as a workbench, tool stand, sawhorse, and working vise. Steel frame with adjustable jaws for clamping.

Sawhorse Legs—Legs on 8UYY8 and 8PXG9 are welded steel and attach to a 2 x 4 to make any length sawhorse needed. They have gripping teeth and set-up requires no screws or nails. 23TL83 and 23TL81 were designed for maintenance workers and contractor tradesman. They include a fast and easy width adjustment feature.

Hold Cap. (lb.)	L (in.)	W (in.)	Max. Height (in.)	Brand	Item No.
FATMAX Mobile Workstation					
88	22	14	29	STANLEY	**3FRA9**
Workmate Project Centers					
450	29	26	39⅞	Black & Decker	**6W372**
550	28¾	30½	30½	Black & Decker	**6Z842**
Sawhorses					
800	40		30	STANLEY	**23TL82**
1100	47	22¼	30	Steelman	**45ND39**
1300	42 9/64	18½	32	Steelman	**45ND40**
Sawhorse Legs					
1000	—	6	27	Trojan Tool	**8UYY8**
1000	—	6	35	Trojan Tool	**8PXG9**
1000	27½	14 15/16	31½	STANLEY	**45JX49**
1000	28⅛	2⅞	31⅛	STANLEY	**23TL83**
2500	27 3/16	2⅛	39	STANLEY	**23TL81**

HYDE WESTWARD Clauss STANLEY

Putty Knives and Painters Tools

Stainless steel blades are corrosion-resistant. Carbon steel blades are hardened, tempered, and polished. Brass blades are nonsparking. Polypropylene tools are lightweight.

1UKE8 4YP28 5LL90

13A670 46A913 4YP31 1UKF2

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Flexible							
Double Hollow Ground							
1 ½ in	Stainless Steel	Plastic	3 7/16 in	4 ¼ in	Black	Hyde	16W160
2 in	Stainless Steel	Plastic	3 7/16 in	4 ¼ in	Black/Cream	Hyde	16W162
Full Tang							
¾ in	Carbon Steel	Nylon	3 ½ in	3 ½ in	Black/Silver	Hyde	8EJY5
1 ¼ in	Carbon Steel	Hardwood	3 ¾ in	4 in	Natural	Hyde	5LM15
1 ¼ in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL89
1 ½ in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL92
1 ¼ in	Carbon Steel	Plastic/Rubber/Steel	4 in	5 in	Black/Blue	Westward	4YP32
1 ¼ in	Carbon Steel	Polypropylene	3 ¾ in	3 ½ in	Black	Westward	13A662
1 ½ in	Carbon Steel	Polypropylene	3 ¾ in	4 in	Black	Westward	13A674
1 ½ in	Carbon Steel	Polypropylene/TPR	4 in	3 ½ in	Black/Red	Westward	13A677
1 ¼ in	Carbon Steel	Wood	3 ¾ in	3 ½ in	Natural	Westward	13A669
1 ½ in	Stainless Steel	Nylon	3 ½ in	3 ½ in	Black/Silver	Hyde	9PY10
1 ½ in, 3 in	Stainless Steel	Polypropylene/ TPR/Steel	4, 4¼"	5 in	Black/Blue	Westward	46A915
1 ½ in	Stainless Steel	Polypropylene/ TPR/Steel	4 in	5 in	Black/Blue	Westward	46A917
2 in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL94
2 in	Carbon Steel	Nylon	3 ¾ in	4 in	Blue	Westward	1UKF5
2 in	Carbon Steel	Plastic/Rubber/Steel	3 ½ in	4 in	Black/Blue	Westward	4YP33
2 in	Carbon Steel	Polypropylene	3 ¾ in	3 ½ in	Black	Westward	13A666
2 in	Stainless Steel	Nylon	3 ½ in	3 ½ in	Black/Silver	Hyde	9MN10
2 in	Stainless Steel	Polypropylene	3 ¾ in	4 in	Black	Westward	46A914
3 in	Carbon Steel	Plastic/Rubber/Steel	4 ¼ in	4 in	Black/Blue	Westward	4YP34
3 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A918
4 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A907
Half Tang							
⅜ in	Spring Steel	Hardwood	3 in	3 ½ in	Natural	Hyde	39CF51
⅝ in	Spring Steel	Hardwood	4 in	4 in	Natural	Hyde	39CF50
15/16 in	Stainless Steel	Hardwood	3 15/16 in	4 ⅞ in	Natural	Westward	40JD56
1 ⅝ in	Beryllium Copper	Wood	9 in	4 23/32 in	Natural	Westward	23X827
1 in	Spring Steel	Hardwood	6 in	4 in	Natural	Hyde	39CF49
1 ⅜ in	Stainless Steel	Hardwood	7 ⅞ in	4 ⅞ in	Natural	Westward	40JD55
1 3/16 in	Stainless Steel	Hardwood	5 15/16 in	4 ⅞ in	Natural	Westward	40JD58
1 ¼ in	Stainless Steel	Hardwood	7 ⅛ in	4 ⅞ in	Natural	Westward	40JD57
Standard							
1 ¼ in	Beryllium Copper	Wood	3 9/16 in	4 ⅛ in	Natural	Westward	23X825
1 ½ in	Carbon Steel	Nylon	3 ⅝ in	4 in	Blue	Westward	1UKF3
1 ¼ in	Carbon Steel	Nylon	3 ⅝ in	4 in	Blue	Westward	1UKF1
1 ½ in	Carbon Steel	Plastic	4 in	5 in	Black/Blue	Westward	1UKE8
1 ½ in	Carbon Steel	Polypropylene/TPE	3 ½ in	4 ½ in	Black/Cream	Hyde	24Z412
1 ½ in	Polypropylene	Polypropylene	3 ½ in	3 ½ in	White	Westward	13A685
1 ½ in, 3 in, 6 in	Polypropylene	Polypropylene	—	—	—	Westward	13A716
1 ½ in	Polypropylene	Polypropylene	3 ¾ in	3 ½ in	Black	Hyde	1DBA2
1 ½ in, 3 in	Stainless Steel	Plastic Overmold/ Steel	—	—	Grey	Hyde	16W171
1 in	Titanium	ABS/TPR	4 in	4 ½ in	Gray/Red	Clauss	39CF34
2 in	Carbon Steel	Polypropylene/TPE	3 ½ in	4 ½ in	Black/Cream	Hyde	24Z414
2 in	Carbon Steel	Polypropylene/TPR	3 ¼ in	5 in	Black/Blue	Westward	46A902
2 in	Polypropylene	Polypropylene	3 ¾ in	3 ½ in	Black	Hyde	1DBA1
2 in	Polypropylene	Polypropylene	3 ½ in	3 ½ in	White	Westward	13A684
2 in	Titanium	ABS/TPR	4 in	4 ½ in	Gray/Red	Clauss	39CF32
3 in	Polypropylene	Polypropylene	3 ½ in	4 ½ in	White	Westward	13A714
4 in	Carbon Steel	Polypropylene/ TPR/Steel	3 ⅞ in	4 ¾ in	Black/Blue	Westward	46A903
4 in	Polypropylene	Polypropylene	3 ½ in	4 ½ in	White	Westward	13A713

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
6 in	Polypropylene	Polypropylene	3 ½ in	4 ½ in	Green	Westward	13A706
8 in	Polypropylene	Polypropylene	3 ½ in	4 ½ in	Green	Westward	13A705
Stiff							
11-in-1, Full Tang							
3 ¼ in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A911
5-in-1							
3 in	Carbon Steel	Polypropylene/TPR	4 ⅛ in	4 in	Black/Blue	Westward	13A708
6-in-1							
2 ½ in	Carbon Steel	Polypropylene/TPE	3 ¼ in	4 ½ in	Black/Cream	Hyde	24Z419
2 ½ in	Stainless Steel	Plastic	3 ⅛ in	4 ¼ in	Gray	Hyde	16W169
3 in	Carbon Steel	Plastic/Rubber/Steel	4 ¼ in	4 in	Black/Blue	Westward	4YP28
6-in-1, Full Tang							
3 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A910
8-in-1							
3 in	Stainless Steel	Plastic	3 ⅝ in	4 ¼ in	Gray	Hyde	16W170
Adjustable							
⅞ in	Tungsten Carbide	Polypropylene/TPE	⅞ in	6 in	Black/Cream	Hyde	24Z449
Chisel							
1 ¼ in	Carbon Steel	Hardwood	3 ¾ in	4 in	Natural	Hyde	38HR98
3 in	Carbon Steel	Polypropylene	4 ¾ in	6 in	Red	Hyde	24Z453
Double Hollow Ground							
1 ½ in	Stainless Steel	Plastic	3 7/16 in	4 ¼ in	Gray	Hyde	16W161
1 ¼ in	Stainless Steel	Plastic	3 7/16 in	4 ¼ in	Gray	Hyde	16W159
2 in	Stainless Steel	Plastic	3 7/16 in	4 ¼ in	Black/Cream	Hyde	16W163
Full Tang							
1 ¼ in	Brass	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL91
1 ¼ in	Brass	Polypropylene	3 ¾ in	3 ½ in	Black	Westward	13A664
1 ¼ in	Carbon Steel	Hardwood	3 ¾ in	4 in	Natural	Hyde	5LM16
1 ¼ in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL90
1 ½ in	Carbon Steel	Nylon	3 ⅝ in	4 in	Blue	Westward	1UKF4
1 ½ in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL93
1 5/16 in	Carbon Steel	Nylon	3 ⅞ in	3 ¾ in	Black/Silver	Hyde	53CM11
1 ¼ in	Carbon Steel	Nylon	3 ¾ in	3 ½ in	Black	STANLEY	1ARX3
1 ¼ in	Carbon Steel	Plastic/Rubber/Steel	3 ½ in	4 in	Black/Blue	Westward	4YP29
1 ¼ in	Carbon Steel	Polypropylene	3 ¾ in	3 ½ in	Black	Westward	13A663
1 ½ in	Carbon Steel	Polypropylene	3 ¾ in	3 ½ in	Black	Westward	13A665
1 ½ in	Carbon Steel	Polypropylene/TPR	3 ¼ in	3 ½ in	Black/Red	Westward	13A678
1 ¼ in	Carbon Steel	Polypropylene/TPR	3 ¼ in	3 ½ in	Black/Red	Westward	13A680
1 ¼ in	Carbon Steel	Wood	3 ¾ in	3 ½ in	Natural	Westward	13A670
1 ½ in	Stainless Steel	Nylon	3 ½ in	3 ½ in	Black/Silver	Hyde	8NKG8
1 ½ in	Stainless Steel	Polypropylene	3 ⅝ in	4 in	Black	Westward	46A912
1 ½ in, 3 in	Stainless Steel	Polypropylene/ TPR/Steel	4, 4¼"	5 in	Black/Blue	Westward	46A916
1 ½ in	Stainless Steel	Polypropylene/ TPR/Steel	4 in	5 in	Black/Blue	Westward	46A919
2 in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL95
2 in	Carbon Steel	Nylon	3 ¾ in	4 in	Blue	Westward	1UKF6
2 in	Carbon Steel	Plastic/Rubber/Steel	4 in	4 in	Black/Blue	Westward	4YP30
3 in	Carbon Steel	Plastic/Rubber/Steel	3 ½ in	4 ¼ in	Black/Blue	Westward	4YP31
3 in	Stainless Steel	Polypropylene	4 in	4 in	Black	Westward	46A913
3 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A920
Standard							
1 ½ in	Carbon Steel	Hardwood	3 ¾ in	4 in	Natural	Hyde	38HR97
1 ¼ in	Carbon Steel	Nylon	3 ⅝ in	4 in	Blue	Westward	1UKF2
1 ½ in	Carbon Steel	Plastic	4 in	5 in	Black/Blue	Westward	1UKE9
1 ½ in	Carbon Steel	Polypropylene/TPE	3 ½ in	4 ½ in	Black/Cream	Hyde	24Z411
1 ½ in, 3 in	Stainless Steel	Plastic Overmold/ Steel	—	—	Grey	Hyde	16W172
1 ½ in	Titanium	ABS/TPR	4 in	4 ½ in	Gray/Orange	Clauss	39CF43

HYDE WESTWARD KRAFT

Flexible Blade Joint and Taping Knives

Joint Knife
1UKF8

Taping Knife
24Z424

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Joint Knives							
Double Hollow Ground							
4 in	Stainless Steel	Plastic	4 in	4 ¼ in	Black	Hyde	16W166
5 in	Stainless Steel	Plastic	4 ⅛ in	4 ¼ in	Black	Hyde	16W167
6 in	Stainless Steel	Plastic	4 3/16 in	4 ¼ in	Black	Hyde	16W168
Full Tang							
5 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A908
6 in	Carbon Steel	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	5LL99
6 in	Carbon Steel	Polypropylene	3 ½ in	4 ½ in	Black	Westward	13A701
6 in	Carbon Steel	Polypropylene/TPR	3 ½ in	4 in	Black/Blue	Westward	13A702
6 in	Carbon Steel	Wood	3 ¾ in	3 ½ in	Natural	Westward	13A704
6 in	Stainless Steel	Polypropylene/ TPR/Steel	4 ¼ in	5 in	Black/Blue	Westward	46A909
Standard							
4 in	Carbon Steel	Nylon	4 ¼ in	3 ¾ in	Black	Hyde	16W174
5 in	Carbon Steel	Polypropylene/TPE	4 in	4 ½ in	Black/Cream	Hyde	24Z417
5 in	Carbon Steel	Polypropylene/ TPR/Steel	3 ⅞ in	4 ¾ in	Black/Blue	Westward	46A904
6 in	Carbon Steel	Nylon	4 ¼ in	4 in	Blue	Westward	1UKF8
6 in	Carbon Steel	Polypropylene/TPE	4 in	4 ½ in	Black/Cream	Hyde	24Z418
6 in	Carbon Steel	Polypropylene/ TPR/Steel	3 ⅞ in	4 ¾ in	Black/Blue	Westward	46A905
6 in	Polypropylene	Polypropylene	3 ¾ in	3 ½ in	Black	Hyde	1DAZ7
8 in	Polypropylene	Polypropylene	4 ⅛ in	3 ½ in	Black	Hyde	1DAZ6

Blade Width	Blade Material	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Taping Knives							
Extruded Backing, Tapered							
8 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z422
10 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z423
12 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z424
Folded Backing, Tapered							
8 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z444
10 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z445
12 in	Stainless Steel	Plastic	3 ½ in	6 in	Black/Cream	Hyde	24Z446
Tapered							
6 in	Blue Steel	Polypropylene	3 in	6 ⅛ in	Neon Yellow	Westward	13A724
6 in	Carbon Steel	Plastic	6 in	4 in	Black/Gold	Kraft Tool	35EM65
8 in	Blue Steel	Polypropylene	3 in	6 ⅛ in	Blue	Westward	13A728
8 in	Stainless Steel	Polypropylene/TPR	3 in	5 ⅝ in	Black/Red	Westward	13A721
10 in	Blue Steel	Polypropylene	3 in	6 ⅛ in	Blue	Westward	13A725
10 in	Stainless Steel	Polypropylene/TPR	3 in	5 ⅝ in	Black/Blue	Westward	13A722
12 in	Blue Steel	Polypropylene	3 in	6 ⅛ in	Neon Yellow	Westward	13A726
12 in	Stainless Steel	Polypropylene/TPR	3 in	5 ⅝ in	Black/Red	Westward	13A723

Prep Kits and Scrapers

Stainless steel blades are corrosion-resistant. Carbon steel blades are hardened, tempered, and polished. Brass blades are nonsparking. Polypropylene tools are lightweight.

4-Pc. Set, Gasket Scrapers
24Z409

Glass Scraper
13A711

Paint Scraper
13A696

2-Pc. Prep Kit
13A687

Wall Scraper
13A703

Blade Width	Blade Material	Blade Type	Handle Material	Blade Length	Handle Length	Color	Brand	Item No.
Bent Pole Scrapers								
Stiff								
3 in	Carbon Steel	Bent	Hardwood	4 ½ in	4 ¾ in	Natural	Hyde	**24Z450**
3 in	Carbon Steel	Bent	Polypropylene	3 ½ in	4 ½ in	Black	Westward	**13A691**
Chisel Scrapers								
Flexible								
3 in	Stainless Steel	Double Hollow Ground	Plastic	3 ⅞ in	4 ¼ in	Black	Hyde	**16W164**
Stiff								
1 5⁄16 in	Brass	Chisel	Polypropylene	3 ½ in	8 in	Black	Hyde	**24Z451**
1 ¼ in	Stainless Steel	Chisel, Full Tang	Polypropylene/TPR/Steel	4 in	5 in	Black/Blue	Westward	**46A906**
2 in	Brass	Chisel, Full Tang	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	**5LL96**
3 in	Brass	Chisel	Polypropylene	3 ¼ in	8 in	Black	Hyde	**8CU48**
3 in	Brass	Chisel, Full Tang	Nylon	3 ¾ in	4 in	Brass	Hyde	**5LL98**
3 in	Carbon Steel	Bent, Chisel	Polypropylene	3 ½ in	4 ½ in	Black	Hyde	**5LM19**
3 in	Carbon Steel	Chisel, Full Tang	Nylon	3 ¾ in	4 in	Black/Silver	Hyde	**5LL97**
3 in	Carbon Steel	Chisel, Full Tang	Hardwood	3 ¾ in	4 in	Natural	Hyde	**5LM18**
3 in	Stainless Steel	Double Hollow Ground	Plastic	3 ⅞ in	4 ¼ in	Gray	Hyde	**16W165**
Gasket Scrapers								
Stiff								
½ in, ¾ in, 1 in, 1 ½ in	Cold Drummed Carbon Steel	Beveled	Polypropylene/TPE/Steel	5 in	5 in	Black/Gray	Hyde	**24Z409**
1 ½ in	Carbon Steel	Beveled	Polypropylene	1 ½ in	8 in	Black	Westward	**13A698**
1 ½ in	Carbon Steel	Beveled	Plastic	7 ½ in	4 ½ in	Blue	Westward	**1UKF9**
1 in	Chrome Vanadium Steel	Beveled	Acetate	7 in	4 7⁄16 in	Red	Hyde	**24Z410**
1 ½ in	Chrome Vanadium Steel	Beveled	Acetate	7 in	4 7⁄16 in	Red	Hyde	**24Z421**
Glass Scrapers								
Flexible								
1 ½ in	Carbon Steel	Single Edge Razor	Polypropylene	1 ½ in	1 in	Black	Hyde	**24Z407**
1 ½ in	Carbon Steel	Single Edge Razor	Polypropylene	½ in	4 in	Black/Cream	Hyde	**16W178**
1 ½ in	Carbon Steel	Single Edge Razor	Steel	½ in	4 in	Silver	Hyde	**5LM21**
1 ½ in	Carbon Steel	Single Edge Razor	Plastic	1 in	2 in	Tan	Hyde	**16W177**
Stiff								
45⁄64 in	Stainless Steel	Single Edge Razor, Utility	Plastic	4 23⁄32 in	3 9⁄16 in	Black/Yellow	Olfa	**53UE14**
1 ½ in	Carbon Steel	Single Edge Razor	Steel	½ in	4 in	Silver	Westward	**13A710**
1 ½ in	Carbon Steel	Single Edge Razor	Rubber	½ in	4 in	Silver/Black	Westward	**13A711**
2 13⁄16 in	Carbon Steel	Single Edge Razor, Utility	Steel/Vinyl	3 15⁄16 in	20 5⁄16 in	Black/Yellow	Olfa	**53UE16**
Paint Scrapers								
Stiff								
2 ½ in	Carbon Steel	Adjustable	Polypropylene/TPR	1 ¼ in	5 in	Black/Blue	Westward	**13A696**
2 ½ in	Carbon Steel	Adjustable	Polypropylene/TPE	2 ½ in	8 ½ in	Black	Hyde	**24Z420**
2 ½ in	Tungsten Carbide	Adjustable	Polypropylene/TPR	1 ¼ in	5 in	Black/Red	Westward	**13A697**
2 ½ in	Tungsten Carbide	Adjustable	Nylon	2 ½ in	4 in	Black/Cream	Hyde	**3PB46**
3 in	Carbon Steel	Bent, Chisel	Polypropylene	4 ¾ in	6 in	Red	Hyde	**24Z452**
Putty Knife Set								
Flexible								
1 ½ in, 3 in, 4 in, 5 in	Carbon Steel	(4) Standard, (1) 6-in-1	Plastic/Rubber	—	—	—	Westward	**31MJ75**
Scraper Multi-Tools								
Stiff								
2 ½ in	Carbon Steel	10-in-1	Polypropylene	3 ¼ in	5 in	Tan	Hyde	**16W175**
3 in	Carbon Steel	6-in-1, Full Tang	Nylon	4 ½ in	4 in	Black	Hyde	**24Z427**
Scrapers								
Flexible								
3 in	Carbon Steel	Standard	Polypropylene/TPE	4 in	4 ½ in	Black/Cream	Hyde	**24Z415**
3 in	Polypropylene	Standard	Polypropylene	3 ¾ in	3 ½ in	Black	Hyde	**1DAZ9**
4 in	Carbon Steel	Standard	Polypropylene/TPE	4 in	4 ½ in	Black/Cream	Hyde	**24Z416**
4 in	Polypropylene	Standard	Polypropylene	3 ¾ in	3 ½ in	Black	Hyde	**1DAZ8**
Stiff								
3 in	Carbon Steel	Chisel	Polypropylene/TPE	3 ¾ in	4 ½ in	Black/Cream	Hyde	**24Z428**
3 in	Carbon Steel	Chisel	Polypropylene	4 ½ in	8 in	Black	Hyde	**38HT03**
3 in	Carbon Steel	Full Tang	Polypropylene/TPR	4 in	3 ½ in	Black/Blue	Westward	**13A692**
3 in	Stainless Steel	Angled, Chisel, Full Tang	Nylon	3 ½ in	3 ½ in	Black/Silver	Hyde	**9AND8**
Surface Preparation Kits								
(1) Flexible, (2) Stiff								
1 ¼ in, 3 in	Carbon Steel	(2) Standard, (1) 5-in-1	(2) Polypropylene, (1) Polypropylene/TPR/Steel	—	—	—	Westward	**13A715**
3 in, 1 ¼, 3	Stainless Steel, Carbon Steel	(2) Standard, (1) 8-in-1	(2) Nylon, (1) Plastic Overmold/Steel	Multiple	—	Grey/Black	Hyde	**16W173**
Flexible								
1 ½ in, 3 in	Carbon Steel	Standard	Polypropylene/TPR	—	—	—	Westward	**13A686**
1 ½ in, 3 in, 6 in	Polypropylene	Beveled	Polypropylene	3¾ in	3 ½ in	—	Hyde	**1DAZ5**
Stiff								
1 ½ in, 3 in	Carbon Steel	Standard	Polypropylene/TPR	—	—	—	Westward	**13A687**
Wall Scrapers								
Flexible								
3 in	Carbon Steel	Full Tang	Polypropylene/TPR	4 in	3 ½ in	Black/Blue	Westward	**13A694**
3 in	Carbon Steel	Full Tang	Hardwood	3 ¾ in	4 in	Natural	Hyde	**5LM17**
3 in	Carbon Steel	Full Tang	Wood	3 ½ in	3 ½ in	Natural	Westward	**13A712**
4 in	Carbon Steel	Full Tang	Polypropylene	3 ½ in	4 in	Black	Westward	**13A703**
Stiff								
3 in	Carbon Steel	Full Tang	Wood	3 ¾ in	3 ½ in	Natural	Westward	**13A695**
3 in	Carbon Steel	Full Tang	Polypropylene	3 ½ in	4 in	Black	Westward	**13A693**
3 in	Carbon Steel	Standard	Nylon	3 ⅞ in	4 in	Blue	Westward	**1UKF7**
Window Scrapers								
Flexible								
1 ½ in	Carbon Steel	Single Edge Razor	Polypropylene	1 ½ in	5 ½ in	Black	Hyde	**24Z454**
Stiff								
2 ⅜ in	Carbon Steel	Utility	Polypropylene	1 in	5 in	Black	Westward	**13A720**
4 in	Carbon Steel	Standard	Plastic/Rubber	4 in	5 in	Black/Cream	Hyde	**24Z408**

Drywall Apprentice Kit 13A767

Spiral Mixer 13A635

Aluminum Hawk 13A763

Inside Corner Trowel 3AJ91

Jab Saw 13P495

Drywall T-Square 13P537

Drywall Tools

Description	Brand	Item No.
Drywall Apprentice Kit		
13 in Stainless Mud Pan, 9 in Sander, 10 in Taping Knife, 12 in Taping Knife, 12 oz Drywall Hammer, 6 in Putty Knife, 2 in Drywall Patch	Westward	13A767
Mud Pans and Mixers		
Spiral Paint Mixer, 16"L x 2½"W	Westward	13A593
Spiral Paint Mixer, 16"L x 3¼"W	Westward	13A594
Spiral Paint Mixer, 24⁹⁄₁₆"L x 4"W	Westward	13P529
Spiral Paint Mixer, 30"L x 4¾"W	Westward	13A635
Mud Mixer, 8½ x 30 x ½"	Westward	13P530
Drywall Mud Masher, 24 ½ in	Marshalltown	18E852
Drywall Mud Pan, 12 in SS	Marshalltown	18E856
Aluminum Hawks		
ErgoSoft Handle, 10 in	Westward	13A762
ErgoSoft Handle, 13 in	Westward	13A763
Corner Tools		
Inside Corner Tool, 11 in"L x 6 ⅜ in"W, w/Cushion Grip Handle	Westward	13P539
Inside Corner Trowel, 4 in"L x 5 in"W, Straight With Integral Finger Guard Handle	Marshalltown	3AJ91
Outside Corner Tool, 11 in"L x 3 ½ in"W, w/Cushion Grip Handle	Westward	13P540
Outside Corner Trowel, 5 in"L x 3 in"W, Straight With Integral Finger Guard Handle	Marshalltown	3AJ94
Cornerbead Clincher with Mallet, 13 ½ in"L x 3 in"W	Westward	13A765

Description	Brand	Item No.
Saws		
Jab Saw, w/6 ¼ in Steel Blade	Westward	13P495
Coping Saw, w/6 in Tungsten Carbide Blade	Westward	13P497
Drywall Utility Saw, w/6" Blade	Marshalltown	18E854
Strippers		
Drywall Stripper	Westward	13A764
Wallpaper Stripper	Westward	13P501
Replacement Blade for No. 13A764, Pk. of 6	Westward	13A759
Replacement Blade for No. 13P501, Pk. of 5	Westward	13P532
Miscellaneous Drywall Tools		
48 x 2 in Drywall T-Square	Westward	13P537
Squeegee Trowel, 18 in"L	Marshalltown	18E850
Squeegee Trowel, 22 in"L	Marshalltown	18E851

Description	Size	Construction	Brand	Item No.
Texturing Tools				
Banjo Taper, Aluminum Blade, Curved Soft Grip, 2 qt.	—	—	Hyde	1DAY5
Drywall Taper, Steel Blade	—	—	Westward	13P538
Texture Brush, Double	14 x 6½ in	Hemp Fiber Bristles	Hyde	1DAY2
Texture Brush, Single	13 x 9 in	Hemp Fiber Bristles	Hyde	1DAY3
Texture Gun, 1½ gal. Cap.	—	Aluminum Gun, Plastic Hopper	Westward	13P494

Circle Cutter 13A766

Drywall Sanding and Repair Tools

- For wall compounds, see page 1597

Description	Size	Brand	Item No.
Hand Sander, Dura Soft Handle	9⅜ x 3¼ in	Marshalltown	18E853
Vacuum Sander, 6 ft Hose, Coupler, And Adapter	9¼ x 3¼	Marshalltown	18E849
Pole Sander with Wood Pole	9¼ in	Westward	13P490
Sponge Scrubber	9 x 4½ in	Westward	13A761
Drywall Circle Cutter	—	Westward	13A766
Tape, Self Adhesive	2 in x 300 ft (90M)	Westward	13A758
Tape, Self Adhesive	2 in x 500 ft (150M)	Westward	13A757
Wall Patch	8 x 8 in	Hyde	1DAZ3
Wall Patch	6 x 6 in	Hyde	1DAX7
Wall Patch	4 x 4 in	Hyde	1DAX8

Mesh Tape 13A757

Drywall Sander

9" Pad

16.5" Power Cord

No Load RPM	Type of Sandpaper	Speed Type	Tool Length	Mfr. Model	Item No.
2400	Hook-and-Loop	Variable	63 in	DWE7800	60NP22

3FRA7

Staplers and Tackers

STAPLE GUNS

Attach thin materials to a harder or thicker substrate or framework.

STAPLE AND NAIL GUNS

Use both staples and brad nails.

1FBC5

STANLEY DEWALT BOSTITCH

TACKERS

Outward Clinch Tacker—Turns staple legs outward for pipe wrap, duct board, and corrugated applications.

Hammer Tackers—Use to attach roofing paper, felt, plastic sheeting, and house wrap, or to install flooring.

Description	Staple Type	Crown Width	Leg Length	Brand	Mfr. Model	Item No.
Staple Guns						
Heavy-Duty Staple Gun, Steel Chrome Plated	Heavy Duty Narrow Crown	27/64 in	1/4 in to 9/16 in	STANLEY	TR110	**3FRA6**
Hi-Lo Power Lever, Heavy-Duty	Heavy Duty Narrow Crown	1/4 in, 5/16 in, 3/8 in, 1/2 in	1/4 in to 9/16 in	STANLEY	TR150HL	**3FRA7**
Heavy-Duty Staple Gun, Aircraft Aluminum	Heavy Duty Narrow Crown	27/64 in	1/4 in to 9/16 in	STANLEY	TR150	**1FBC6**
Light-Duty Staple Gun, Chrome Plated	Light Duty	29/64 in	1/4 in to 3/8 in	STANLEY	TR45	**2HYR6**
Cable Staple Gun, Aircraft Aluminum	Flat Narrow Crown, Round Crown	5/16 in	3/8 in to 9/16 in	STANLEY	CT10X	**3FRD2**
Heavy-Duty Narrow Crown Staple Gun, Die-Cast Aluminum	Heavy Duty Narrow Crown	27/64 in	1/4 in to 1/2 in	DeWalt	DWHTTR130LH	**31CN63**
Staple and Nail Guns						
Heavy-Duty Narrow Crown Staple Gun	Heavy Duty Narrow Crown	1/2 in, 9/16 in, 5/8 in	5/8 in	STANLEY	TRE550Z	**49XH45**
Heavy-Duty Narrow Crown Staple/Nail Gun	Heavy Duty Narrow Crown	27/64 in	1/2 in, 9/16 in	DeWalt	DWHTTR350	**24T308**
Heavy-Duty Stapler/Brad Nailer	Heavy Duty Narrow Crown	27/64 in	1/4 in to 9/16 in	STANLEY	TR250	**1FBC7**
Tackers						
Heavy-Duty Outward Clinch Tacker	Power Crown	7/16 in	1/2 in, 9/16 in	Bostitch	T6-8OC2	**3ULY8**
Heavy-Duty Hammer Tacker	Heavy Duty Narrow Crown	27/64 in	1/4 in to 3/8 in	STANLEY	PHT150C	**1FBC5**
FatMax® Heavy-Duty Hammer Tacker	Heavy Duty Narrow Crown	27/64 in	5/16 in to 1/2 in	STANLEY	PHT250C	**1XHU9**
Heavy-Duty Hammer Tacker	Power Crown	7/16 in	1/4 in, 3/8 in, 5/16 in	Bostitch	PC2K	**1TLK1**

24T347

Power Crown
1TLK6

WESTWARD STANLEY BOSTITCH

Staples, Brad Nails, and C Rings

Description	Nail Length (in.)	Brand	Item No.	Pkg. Qty.
Brad Nails				
Brown	1	STANLEY	**1XHU6**	1000
Natural	5/8	STANLEY	**4DZZ9**	1000
	1 3/16	STANLEY	**24T349**	1000
	1 1/4	STANLEY	**1XHU7**	1000
White	1	STANLEY	**1MTJ2**	1000

Description	Leg Length (in.)	Crown Width (in.)	For Use With	Brand	Item No.	Pkg. Qty.
Cable Staples						
Round Crown, Natural	3/8	5/16	10D655 Staple Gun	Westward	**10D680**	1000
	3/8	5/16	Mfr. No. CT10X, T25	STANLEY	**1XHT1**	1000
	9/16	5/16	10D655 Staple Gun	Westward	**10D681**	1000
	9/16	5/16	Mfr. No. CT10X, T25	STANLEY	**1XHT2**	1000
Heavy-Duty Staples						
Heavy-Duty Flat Narrow Crown, Natural	3/8	5/16	Mfr. Model No. CT10X	STANLEY	**24T347**	1000
	1/2	5/16	Mfr. No. CT10X	STANLEY	**24T346**	1000
Heavy-Duty Narrow Crown	3/8	27/64	PHT150C, TR100, TR200, TRE500, TR100HLPHT150C, TR100, TR200, TRE500, TR100HL, T50, T50PBN, ETF50, T55, HT50	STANLEY	**9JGW6**	1
	1/2	27/64	Mfr. Model No. TR110, TR150, TR150HL, TRE550, TR250, PHT150C, PHT250C	STANLEY	**24T322**	5000
Heavy-Duty Narrow Crown, Natural	1/4	27/64	Mfr. TR150, TR250, TRE550, TR110, TR150HL, PHT150C, T50	STANLEY	**1XHT4**	1000
	1/2	27/64	Mfr. TR150, TR250, TRE550, TR110, TR150HL, PHT250C	STANLEY	**1XHT7**	1000
Heavy-Duty Narrow Crown, Stainless Steel	1/4	27/64	Mfr. No. TR150, PHT150C, PHT250C, TR110, TR150HL, TR250, TRE550	STANLEY	**3KMA6**	1000
	3/8	27/64	Mfr. No. TR150, PHT150C, PHT250C, T50, TR110, TR150HL, TR250, TRE550	STANLEY	**1XHT9**	1000
	1/2	27/64	Mfr. No. TR150, PHT250C, TR110, TR150HL, TR250, TRE550	STANLEY	**1XHU1**	1000
Narrow Crown, Silver	5/16	27/64	1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7, Staplers; 1FBC5, 1XHU9, Tackers	STANLEY	**1XHT5**	1000
	3/8	27/64	1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7 Staplers; 1FBC5, 1XHU9 Tackers	STANLEY	**1XHT6**	1000
	9/16	27/64	1FBC6, 1FBC7, 1XHU8, 3FRA6, 3FRA7 Staplers	STANLEY	**1XHT8**	1000
Light-Duty Staples						
Wide Crown, Natural	1/4	29/64	Mfr. No. TR45, TR35, TR40	STANLEY	**1XHR8**	1000
	5/16	29/64	Mfr. No. TR45, TR35, TR40	STANLEY	**1XHR9**	1000
	3/8	29/64	Mfr. No. TR45, TR35, TR40	STANLEY	**1XHT3**	1000
Power Crown Staples						
Heavy-Duty, Natural	1/4	29/64	10D663 Hammer Tacker	Westward	**10D667**	5000
Heavy-Duty, Silver	1/4	7/16	Mfr. No. P6C-8 and PC2K	Bostitch	**1TLK6**	6000
	5/16	7/16	Mfr. No. P6C-6	Bostitch	**1TLL3**	5000
	3/8	7/16	Mfr. No. P6C-8 and PC2K	Bostitch	**1TLK8**	5000
	3/8	7/16	Mfr. No. P6C-6	Bostitch	**1TLL4**	5000
	1/2	7/16	Mfr. No. PC4000-OC2	Bostitch	**1TLK9**	4032
	9/16	7/16	Mfr. No. PC4000-OC2	Bostitch	**1TLL1**	4032
Light-Duty, Silver	1/4	7/16	Mfr. No. P6C-6	Bostitch	**1TLL2**	5000

ROBERTS WESTWARD

Carpet Installation Tools

Carpet Installation Kit 1TGH6—Metal tool box holds deluxe knee kicker, GT carpet trimmer, cushion-back cutter, carpet seam roller, razor blade knife, utility knife, base molding lifter, ripping hammer, napping shears, stair tool, seam adhesive applicator, chalk reel, white chalk refill, and leather tool pouch.

Description	Brand	Item No.
Carpet Installation Kit	Roberts	**1TGH6**
Carpet Stretcher Kit	Roberts	**43Z124**
Power-Lok Stretcher	Roberts	**1TGF7**
Deluxe Carpet Stretcher	Westward	**13A752**
Carpet Puller	Westward	**13A745**
	Roberts	**1TGH5**
Carpet Knee Kicker	Roberts	**5LF54**
	Roberts	**43Z126**
PTFE Carpet Heat Bond Iron	Roberts	**5LF49**
Loop Pile Cutter	Roberts	**5LF43**
	Westward	**13A746**
GT Carpet Trimmer	Roberts	**5LF62**
Carpet Knife	Roberts	**1TGG3**
Longneck Jamb Saw	Roberts	**1TGF8**
Jamb Saw Replacement Blade for 1TGF8	Roberts	**1TGF9**
Undercut Jamb Saw	Roberts	**5LF52**
Carpet Seam Roller, Smooth Wheel	Westward	**13A749**
Carpet Seam Roller, Star Wheel	Westward	**13A748**
Adhesive Nozzle	Roberts	**1TGG6**
Carpet Mounting Tape, 15 ft x 2½ in	Roberts	**12L729**
Carpet Mounting Tape, 1⅞ in x 75 ft	Roberts	**5HXE0**
Traction Nonslip Rug Strip, 2½ in x 25 ft	Roberts	**5HXD9**
Carpet Mounting Tape, 22 yd	Roberts	**12L727**
Carpet Mounting Tape, 15 ft	Roberts	**12L728**
Construction Adhesive, 1 gal	Roberts	**43Z107**

Carpet Installation Kit 1TGH6

Flooring and Tile Tools

WESTWARD QEP ROBERTS STANLEY HYDE

L (in.)	W (in.)	Notch Type	Notch Width (in.)	Notch Depth (in.)	Brand	Item No.
2-Sided Notched Trowels						
6	2	Square	¼	¼	Westward	**13A580**
11	4 ½	Square	1⁄16	1⁄16	Westward	**13A631**
2-Sided Margin Trowels						
9 ¾	2	V	¼	⅛	Westward	**13A581**

Description	L (in.)	W (in.)	Thickness (in.)	Material	Handle	Brand	Item No.
Tile Floats and Sponges							
Grout Sponge, Pkg. 6	7 ½	5 ½	2	Foam	—	QEP	**5HXD6**
Molded Rubber Float	8	4	⅝	Rubber	Plastic	Westward	**13P545**
Grout Float	9	4	⅝	Gum Rubber	Plastic	Westward	**13P542**
	12	4	¾	Rubber	Wood	QEP	**5HXD5**

Description	Brand	Item No.
6-Pc. Ceramic Floor Tile Installation Kit		
Includes Molded Rubber Float, ¼ x ⅜ x ¼ in Square Notch Floor Trowel, 8 in Tile Nippers, Grouting Sponge, Disposable Gloves, Reusable 2.5 gal Plastic Bucket, Installation Instructions, (Spacers Not Included)	QEP	**43Z112**
Construction Adhesive		
Beige, 3095, 4 gal	Roberts	**53WC24**
Creamy Tan, 2057, 1 gal	Roberts	**43Z104**
Off White, 6280, 4 gal	Roberts	**53WC27**
Off White, 7350, 1 gal	Roberts	**53WC29**
Linoleum and Vinyl Flooring Tools		
3 in Floor Scraper	Hyde	**38HT04**
4 in Angled Floor Scraper, 12 in Steel Handle	Westward	**13A589**
4 in Stiff Floor Scraper, 18 in Steel Handle	Hyde	**5FZH2**
4 in Stiff Floor Scraper, 48 in Steel Handle	Hyde	**5FZH3**
4 in Stiff Floor Scraper, 54 in Steel Handle	Hyde	**5FZH4**
6 in Stiff Floor Scraper, 55 in Wood Handle	Hyde	**38HT05**
7 in Floor Scraper, 4-Ft. w/Foot Peg Handle	QEP	**2WFF1**
8 in Adjustable Floor Scraper, Telescoping, Cushioned Grip, 3 to 6-Ft. Length Handle	QEP	**5LG17**
8 in Floor Scraper, 4½ ft. Steel Handle	Westward	**13P504**
14 in Floor Scraper, 4½ ft. Steel Handle	Westward	**13P507**
18 in Floor Scraper, 4½ ft. Steel Handle	Westward	**13P508**
Angled Floor Scraper, 4 in W x 4 in D x 19 in H	Roberts	**5HXD0**
Construction Adhesive, Off White, 1406, 16 fl oz	Roberts	**43Z102**
Extendable Floor Roller, 17 to 27 in Handle	Westward	**13P503**
Floor Roller, 100 lbs.	Roberts	**12L723**
Linoleum Knife, Ergonomic Handle	Westward	**13A733**
Linoleum Knife, Ergonomic Handle	STANLEY	**30HK70**
Linoleum Roller, 35 Lbs.	Roberts	**5LF64**
Linoleum Roller, 75 Lbs.	Roberts	**5LF65**
Reversible Floor Scraper, 3¼ in W x 4 in D x 59⅜ in H	QEP	**5HXC9**
Vinyl Tile Cutter, Cuts 12 in Straight or 9 in Diagonally	Roberts	**5LF63**
Vinyl Tile Cutter, Cuts 18 in Straight or 12 in Diagonally	Roberts	**12L722**
Vinyl Tile Cutter, Cuts Up to 12 in Tiles Diagonally	Westward	**13P502**
Vinyl Tile Cutter, Cuts Vinyl Tile up to 12 in x 12 in	Roberts	**5HXC7**

Ceramic Tile Installation Kit 43Z112

Description	Brand	Item No.
Tiling Tools and Accessories		
14 in Tile Cutter	QEP	**35T142**
Grout Bag, Vinyl w/Metal Tip	Westward	**13P550**
Grout Removal Tool, 9 in	Westward	**13P556**
Grout Remover, 2 in Blade	Westward	**13P559**
Grout Saw, 12 in, Blue	Westward	**13P552**
Grout Sealer Application Bottle w/Roller	QEP	**43Z101**
Mixing Paddle	QEP	**43Z111**
Nylon Tile and Grout Brush, 2.1 in W x 8 in L	Westward	**13P555**
Scratch Brush w/ Scraper Blade, 6 in L x 3 in W	Hyde	**5FZH8**
Scratch Brush w/ Scraper Blade, 9¼ in L x 3¼ in W	Hyde	**5FZJ2**
Tile Cutting Pliers, 8 in, Orange, Carbide Blade	Westward	**13P558**
Tile Nipper, 8 in, Red, Tungsten Carbide	Westward	**13P557**

Description	For Use With	Brand	Item No.
Replacement Parts			
½ in Replacement Wheel	5LF77 Tile Cutter	Westward	**13A570**
Replacement Blade, 7 in	2WFF1 7 in Floor Scraper	QEP	**2WFF4**
Replacement Blade, 8 in	13P504 Floor Scraper	Westward	**13P534**
Replacement Blade, 14 in	13P507 Floor Scraper	Westward	**13P533**
Replacement Blade, 18 in	13P508 Floor Scraper	Westward	**13P531**
Replacement Blades, Pk. of 2	13P552 Floor Scraper	Westward	**13P551**
Scraper Blade, 4 in	Mfr. No. 19430, 19440, 19450	Hyde	**5FZH9**
Scraper Blade, 6 in	Mfr. No. 19430, 19440, 19450	Hyde	**5FZJ0**
Scraper Blade, 4 in	Mfr. No. 10-294	Roberts	**5HXD1**
Scraper Blade, 8 in	QEP 62909	Roberts	**12L721**

Brick Trowel
13P514

Convex
Jointer
13P513

Brick Layer's
Tool Kit
4JB18

Masonry Hand Tools

Description	L (in.)	W (in.)	Brand	Item No.
Trowels and Jointers				
Brick Trowel, Philadelphia Pattern, ErgoSoft	11	5 ⅝	Westward	**13P516**
Brick Trowel, Wide Heel London Pattern, ErgoSoft	11	5 ½	Westward	**13P517**
Brick Trowel, Philadelphia Pattern, ErgoSoft PP/TPR	5 ½	2 ¾	Westward	**13P523**
	7	3 ⅝	Westward	**13P525**
Brick Trowel, London Pattern, DuraSoft, 1-Pc. Forged	11	4 ⅞	Marshalltown	**5LN36**
Brick Trowel, Narrow London Pattern, ErgoSoft	11	4 ¾	Westward	**13P514**
Gauging Trowel, ErgoSoft	7	3 ½	Westward	**13P518**
Tuckpointing Trowel, ErgoSoft PP/TPR	11 ¾	¼	Westward	**13P527**
	11 ¾	½	Westward	**13P526**
Margin Trowel, ErgoSoft PP/TPR	5	2	Westward	**13P521**
Bucket Trowel, Soft-Grip	7	4 ½	Westward	**13A652**
Convex Jointer	10	15⁄16	Westward	**13P513**

Description	L (in.)	W (in.)	Brand	Item No.
Miscellaneous Masonry Tools				
Brick Tongs	18 ½	—	Westward	**13P510**
Bricklayer Hammer	—	—	Westward	**13P535**
Acid Brush	8 ⅜	3	Westward	**13P509**
Mason's Line	—	—	Westward	**13P512**
Mason's Line Winder w/Handle, Orange Braided Nylon, 250 Ft.	—	—	Marshalltown	**5LN72**
Tool Kits				
9-Pc. Brick Layer's Apprentice Tool Kit: Includes Brick Trowel, Pointing Trowel, Joint Raker, Margin Trowel, Brick Jointer, Line Blocks, Line Winder, Masonry Brush, Canvas Tool Bag			Marshalltown	**4JB18**

Hand Float
13P541

Concrete Trowel
13A736

Concrete
Apprentice
Tool Kit
13A756

Concrete Tool Kit
4JB19

Concrete Hand Tools

- Additional edger and trowel handle types are available on Grainger.com

Description	L (in.)	W (in.)	Brand	Item No.
Floats				
Hand Float, Magnesium, Bevel Ends, Wood Handle	16	3 ½	Westward	**13A755**
Hand Float, Rubber, Square Ends, Plastic Handle	9	4	Westward	**13P541**
Hand Float, Magnesium, Square Ends, DuraSoft Handle	16	3 ⅛	Marshalltown	**22P287**
Float Extension Adapter and Brackets				
Bull Float Bracket, Threaded, 4-Hole			Kraft Tool	**43Y466**
Rock-It Bull Float Bracket			Marshalltown	**22P293**
Knucklehead II Bull Float Bracket, Button, 6-Hole			Kraft Tool	**43Y469**
EZY-Tilt II Tilting Bull Float Bracket, Button, 6-Hole			Kraft Tool	**43Y468**
Trowels				
Concrete Trowel, ErgoSoft PP/TPR Handle	12	4	Westward	**13A736**
	14	4	Westward	**13A738**
	16	4	Westward	**13A740**
	18	4	Westward	**13A742**
Square Ends, Stainless Steel, Curved DuraSoft Handle	14	4 ¾	Marshalltown	**5LP08**
Square Ends, Carbon Steel, Curved DuraSoft Handle	18	4	Marshalltown	**5LP10**
	20	4	Marshalltown	**5LN98**
Pool Trowel, Rounded Ends, Carbon Steel, Straight DuraSoft Handle	14	4	Marshalltown	**5LP20**
Buttering Trowel, ProForm Handle	7	4 ⅝	Kraft Tool	**43Y556**
Gauging Trowel, ProForm Handle	7	3 ¼	Kraft Tool	**43Y557**
Duck Bill Trowel, ProForm Handle	10	2	Kraft Tool	**43Y558**
Fresno Trowel, Round End, All-Angle Bracket	36	5	Kraft Tool	**43Y474**
	42	5	Kraft Tool	**43Y475**
	48	5	Kraft Tool	**43Y476**
ProForm Power Troweler Replacement Blades				
Combination, Steel	14	8	Kraft Tool	**43Y489**
Groovers				
Walking Groover, Stainless Steel, ¼ in Radius, ½ x ½ in Groove, ErgoSoft Handle	6	3	Westward	**13A754**
Concrete Hand Groover, Stainless Steel, ¼ in Radius, ½ x ½ in Groove, DuraSoft Handle	6	3	Marshalltown	**5LN25**
Edgers				
Universal Edger, Stainless Steel	6	3	Westward	**13A753**
Rub Brick				
Concrete Rub Brick	6	3	Marshalltown	**22P295**

Description	L (in.)	W (in.)	Brand	Item No.
Kneeler Boards				
Polypropylene Cushion Pad	19	13 ½	Westward	**13A618**
Lightweight, Stainless Steel w/Knee Pads (Pair)	28	8	Kraft Tool	**43Y535**
Polystyrene w/Knee Pads (Pair)	30	10	Kraft Tool	**43Y534**
Placers				
Aluminum Concrete Placer w/o Hook, Textured Foam Grip Incl.			Kraft Tool	**43Y495**
Handles				
Swaged Handle, Blue Anodized Aluminum	72	1 ⅜	Kraft Tool	**43Y471**
Swaged Handle, Aluminum	72	1 ¾	Kraft Tool	**43Y472**
Kumalong Concrete Mover Handle, Wood	54	1 ⅛	Kraft Tool	**21YH09**
Threaded Handle, Lightweight Aluminum	72	1 ¾	Marshalltown	**22P291**
Push Button Handle, Thick Walled Aluminum	72	1 ¾	Qlt By Marshalltown	**22P289**
Mixing Tools				
Mixing Bucket	15	11 ⅞	Kraft Tool	**43Y530**
Concrete Come Along Rake				
Concrete Come Along Rake			Nupla	**3MD41**
Concrete Placer w/Hook				
Concrete Placer w/Hook, Textured Foam Grip Handle			Kraft Tool	**43Y496**
Hand Held Concrete Smoother				
Hand Held Concrete Smoother			Kraft Tool	**43Y524**
Concrete Tool Kits				
7-Pc. Kit: Includes 12 in Wood Float, 16 in Magnesium Float, 16 in Cement Trowel, 5 in Margin Trowel, 6 in Stainless Edger, 6 in Stainless Groover, Tool Bag	25 ¼	10 ¼	Westward	**13A756**
7-Pc. Concrete Apprentice Tool Kit: Includes Finishing Trowel, Margin Trowel, Magnesium Hand Float, Wood Float, Stainless Steel Groover, Curved End Edger, Canvas Tool Bag			Marshalltown	**4JB19**
Bull Float Kit, Includes (4) 1¾ in Handles Mfr. No. 17-8-ASU, (1) Ea: 48 x 8 in Square End Bull Float-Blade Mfr. No. B48B, Bull Float Bracket Mfr. No. 16-RKT-N (22P293), and Water Resistant Nylon Tote, With A Rigid Reinforced Base And Stiff Side Panels	48	8	Qlt By Marshalltown	**22P308**

Concrete Mixers

WESTWARD WHEELBARROW MIXERS

Mixers feature metal blades and a gear locking system. 10N693 features a heavy-duty frame and removable handles for compact storage. 10N694 has a welded steel frame, torsion bar suspension, and easy-to-use dump mechanism.

MARSHALLTOWN MIXERS

Wheelbarrow Mixer—Hand-tow mixer includes stand and has removable handles for easy storage. Tires are made of flat-free rubber.

Tow-Behind Concrete Electric Mixers, 18F334 and 18F335—25-rpm mixers feature reinforced square tubular frame with steel channel yoke; wheel- and hand-brake tilting mechanism; and any-position frictional hand brake.

KUSHLAN WHEELBARROW MIXERS

21-rpm electric mixers feature 8" power cords and 5⁄16"-thick, easy-clean polyethylene drums that resist dents, cracking, and rust. Welded steel frames. Steel mixing blades.

KUSHLAN PEDESTAL-MOUNTED MIXERS

21-rpm electric mixers swivel 360° and can be discharged in any direction. Drums can be adjusted to the correct angle for particular mixes. Welded steel frames are easily broken down without tools. 8" power cords included.

22DA24—This mixer is designed with polyethylene drum, heavy-gauge steel tubing frame, and telescoping handles.

2DCL5—This mixer has a steel frame that's easy to move from place to place. Food-grade liner extracts easily from basket. 10" x 2¼" flat-free tires.

2DCL7—Drum holds ten 80-lb. bags of premix concrete. Driven by a 20:1 gear box with a chain sprocket drive system. Aggressive mixing blades. 16" x 4" flat-free tires.

ACCESSORIES

Mixer Stand 6LCX9 converts mixer to a stationary unit.

Westward 10N693

Marshaltown 32ZU70

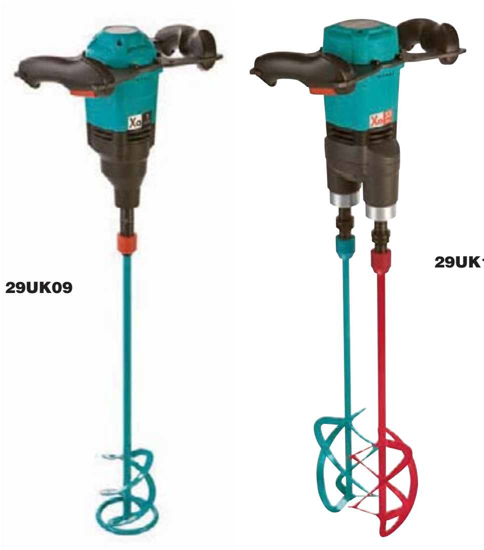
Kushlan 22DA21

Description	Size	Drum Dia.	Drum Opening	Drum Gauge/Material	Motor	Overall Length	Overall Width	Overall Height	Axle Type	Mfr. Model	Item No.
Westward Mixers											
Wheelbarrow Mixer	3 ½ cu ft	20 ½ in	16 ¾ in	15 ga, Poly	115V	48 ½ in	25 ½ in	41 ¾ in	Rigid	—	**10N693**
	4 ¾ cu ft	22 ½ in	15 ¾ in	19 Ga., Steel	120V	55 ½ in	28 in	49 ½ in	Rigid	—	**10N694**
Marshalltown Mixers											
Wheelbarrow Mixer	3 cu ft	24 in	14 ½ in	20, Steel	115V Direct Drive	45 in	29 in	35 ½ in	Hand Tow	MIX3	**32ZU70**
Tow Behind	6 cu ft	30 in	18 in	10 Ga., Steel	Honda Gas	75 in	61 in	51 in	Steel U Spring	MIX59289	**18F334**
	6 cu ft	30 in	18 in	10 Ga., Steel	1.5 HP Electric	78 in	54 in	65 in	Rubber Torsion	MIX59292	**18F335**
Mortar Plaster Mixer	12 cu ft	31 in	33 ⅜ in x 29 in	11 in, Heavy Steel	Gas	85 in	59 in	83 in	Rubber Torsion	1200MP8HP	**35FV48**
Kushlan Mixers											
Wheelbarrow Mixer	3 ½ cu ft	22 in	17 in	5⁄16 in, Poly	115V Direct Drive	47 in	25 in	44 in	Rigid	350EPOXY	**22DA16**
	3 ½ cu ft	22 in	17 in	5⁄16 in, Poly	115V Direct Drive	53 in	25 in	42 in	Rigid	350DD	**22DA20**
	6 cu ft	28 in	17 ½ in	5⁄16 in, Poly	Loncin Gas	65 in	29 in	43 in	Rigid	650GAS-L	**56LA90**
	6 cu ft	28 in	17 ½ in	5⁄16 in, Poly	Honda Gas	65 in	29 in	43 in	Rigid	650GAS-H	**56LA89**
	6 cu ft	28 in	18 in	5⁄16 in, Poly	115V Direct Drive	50 in	29 in	46 in	Rigid	600DD	**22DA21**
Pedestal Mixer	3 ½ cu ft	22 in	17 in	5⁄16 in, Poly	115V Direct Drive	57 in	29 in	62 in	Rigid	350MP	**22DA24**
	4 ½ cu ft	22 in	17 in	5⁄16 in, Poly	120V, Direct Drive ODP	57 in	36 in	62 in	Rigid	450DD	**2DCL5**
	10 cu ft	36 in	16 ¾ in	5⁄16 in, Poly	120V, Direct Drive ODP	56 in	42 in	68 in	Rigid	1000DD	**2DCL7**
Kushian Accessories											
Cement Mixer Stand, For Use With 2DCL1										Universal Stand	**6LCX9**
Cement Mixer Drum, For Use With 2DCL5										450-3	**6LCY0**
Cement Mixer Drum Lid, For Use With 2DCL5										450-4	**6LCY1**

Collomix®

Handheld Concrete Mixers

HEXAFIX coupling lets you change the mixing paddle quickly without tools. Feature reduced noise and electronic speed control. Easy-to-operate with straight back and ergonomic grip handles. Double-action trigger has safety lock-off to prevent unintentional machine start-up. 29UK09 can be used with cement, plaster, and ready-mixed mortar. 29UK11 is for plaster, mortar, screed, concrete, and quartz-filled epoxy resins. Counter-rotating mixer 29UK12 has no counter-torque, making it easy to move in heavy and viscous material. Ideal for miscellaneous mortars, slightly moist mixes, plaster, screed, coverings, filler, filled and unfilled epoxy resin, cement, and bitumen mixes.



29UK09

29UK12

Description	HP	Rotation Speed at Load	Mixing Volume	Mfr. Model	Item No.
Handheld Mixers					
Mixer	1 13⁄32 hp	0 to 590 rpm	0 to 10 gal	XO1R	**29UK09**
2-Gear Mixer	1 45⁄64 hp	0 to 470 rpm, 0 to 640 rpm	0 to 17 gal	XO4R	**29UK10**
2-Gear Mixer	2 7⁄64 hp	0 to 410 rpm, 0 to 580 rpm	0 to 23.5 gal	XO6R	**29UK11**
2-Paddle Mixer	1 29⁄32 hp	0 to 430 rpm	0 to 25 gal	XO55R	**29UK12**

Description	For Use With	Mfr. Model	Item No.
Mixing Paddles			
2-Blade	CX100, XO1	WK120HF	**29UK14**
3-Blade	CX600, XO6	MK160HF	**29UK19**
Bird Cage	CX100, XO1	KR120HF	**29UK16**
Low Viscosity	Mfr. No. XO4, XO6	DLX152HF	**29UK13**
Dual	CX44, XO55	MKD140HF	**29UK21**
Concrete Stirring Paddle	Mfr. No. XO4, XO6	WK140HF	**29UK15**

33GP21

43Y876

12G350

33GP82

33GR68

1UBX2

46KK40

Conventional Engine Oil

SAE Grade	Size	Item No.
Castrol		
5W-30	1 qt	52HG03
	1 qt	52HG01
	5 qt	52HF97
10W-30	1 qt	52HF98
	5 qt	52HF99
10W-40	1 qt	52HG04
Citgo Supergard Ultralife		
5W-30	1 qt	45KJ23
10W-30	1 qt	45KJ25
Formula Shell		
5W-20	1 qt	33GP30
	55 gal	33GP29
5W-30	1 qt	33GP33
	5 qt	33GP31
10W-30	1 qt	33GP21
	5 qt	33GP19
	55 gal	33GP20
10W-40	1 qt	33GP24
	5 qt	33GP22
	55 gal	33GP23
20W-50	1 qt	33GP26
	55 gal	33GP25
30W	1 qt	33GP27
Mag 1		
10W-30	1 qt	43Y876
	5 gal	43Y879
	5 qt	43Y877
10W-40	1 qt	43Y882
20W-50	32 oz	49EP09
30W	1 qt	43Y892
Mobil Super™		
5W-20	1 qt	12G346
5W-30	1 qt	12G347
10W-30	1 qt	12G344
Mobil Super™ High Mileage		
5W-30	1 qt	12G350
Pennzoil		
5W-20	1 qt	40GT26
	55 gal	33GP80
5W-30	1 qt	40GT25
	5 qt	33GP82
	55 gal	33GP81
10W-30	1 qt	40GT28
	5 qt	33GP75
	55 gal	33GP74
10W-40	1 qt	40GT24
20W-50	1 qt	40GT30
	5 qt	33GP78
30W	1 qt	40GT27
Pennzoil High Mileage		
5W-20	1 qt	33GP97
5W-30	1 qt	33GR01
	55 gal	33GP99
10W-30	1 qt	33GP91
	5 qt	33GP93
	55 gal	33GP92
10W-40	1 qt	33GP95
	5 qt	33GP96
Quaker State		
30W	1 qt	33GR85
Quaker State Advanced Durability™		
5W-20	5 qt	33GR65
	55 gal	33GR66
5W-30	5 qt	33GR68
	55 gal	33GR67
10W-30	55 gal	33GR59
10W-40	5 qt	33GR63
	55 gal	33GR62
20W-50	5 qt	33GR64
Valvoline		
30W	1 qt	1UBY5
Valvoline All Climate Premium		
5W-20	1 qt	1UBY4
	5 qt	46KK42
5W-30	1 qt	1UBY3
	5 qt	21A120
	55 gal	2MWD6
10W-30	1 qt	1UBX2
	5 qt	21A118
	55 gal	2MWD7
10W-40	1 qt	1UBX5
	5 qt	21A119
20W-50	1 qt	1UBX3
Valvoline MaxLife™ High Mileage		
5W-20	5 qt	46KK43
Valvoline Premium Conventional		
10W-40	55 gal	453C22
20W-50	55 gal	453C21
Valvoline Super HPO Premium		
30W	1 qt	1UBX8
40W	1 qt	1UBX9
50W	1 qt	1UBY1
Valvoline VR1		
10W-30	1 qt	46KK51
20W-50	1 qt	46KK40
30W	1 qt	453A92
40W	1 qt	453A91
50W	1 qt	46KK45

33ME26

49EP12

33GP83

33GR69

4JPR7

1UBZ8

21A123

Synthetic Blend Engine Oil

SAE Grade	Size	Item No.
Castrol		
5W-30	1 qt	52HF96
10W-30	1 qt	52HG02
CITGO® Supergard		
5W-30	1 qt	33ME26
10W-30	1 qt	33ME27
MAG 1®		
5W-20	1 qt	43Y884
	5 qt	49EP10
5W-30	1 qt	43Y887
	5 qt	43Y888
	55 gal	43Y889
MAG 1® High Mileage		
5W-20	1 qt	43Y886
	5 qt	49EP11
5W-30	1 qt	43Y891
	5 qt	49EP12
10W-30	1 qt	43Y881
	5 qt	49EP13
10W-40	1 qt	43Y883
Pennzoil® dexos1™		
5W-30	1 qt	33GP83
Pennzoil® Gold™		
5W-20	55 gal	33GP88
5W-30	1 qt	33GP89
Quaker State® Defy™ High Mileage		
10W-30	1 qt	33GR69
Quaker State® dexos™		
5W-30	1 qt	33GR57
Quaker State® Enhanced Durability™		
5W-20	55 gal	33GR77
5W-30	55 gal	33GR58
Renewable Lubricants		
5W-30	1 gal	4JPT5
10W-30	1 qt	4JPR7
15W-40	1 qt	4JPR9
30W	1 gal	4JPT3
Valvoline® Durablend®		
5W-20	1 qt	1UBZ8
	5 gal	453C18
5W-30	1 qt	1UBZ9
	5 gal	453C19
10W-30	1 qt	1UCB1
10W-40	1 qt	1UCB2
Valvoline® MaxLife™		
0W-20	5 gal	453C09
5W-20	5 gal	453C07
5W-30	5 gal	453C08
	55 gal	453A84
10W-30	55 gal	453A85
Valvoline® MaxLife™ High Mileage		
5W-20	1 qt	1UBZ4
5W-30	1 qt	1UBZ6
	5 qt	21A123
10W-30	1 qt	1UBZ1
	5 qt	21A121
10W-40	1 qt	1UBZ3
	5 qt	21A122
20W-50	1 qt	1UBZ7
Valvoline® Premium Blue®		
10W-30	1 gal	46KK33
Valvoline® Premium Conventional		
5W-20	55 gal	453C20
Valvoline® Synthetic MaxLife™ High Mileage		
0W-20	1 qt	46KK46

Full Synthetic Engine Oil

Breakdown-resistant formulas withstand high and low temperatures better than conventional oil, offering improved performance.

SAE Grade	Dexos Rating	Size	Item No.
CITGO® Supergard			
0W-20	1	1 qt	45KJ13
5W-20	No	1 qt	45KJ09
	No	55 gal	45KJ07
5W-30	No	1 qt	45KJ17
10W-30	No	1 qt	45KJ19
Formula Shell®			
5W-20	No	1 qt	33GP38
5W-30	No	1 qt	33GP39
10W-30	No	1 qt	33GP36
MAG 1®			
0W-20	2	5 qt	49EP14
5W-20	No	1 qt	43Y885
	No	5 qt	49EP15
5W-30	2	1 qt	43Y890
	2	5 qt	49EP16
10W-30	No	1 qt	43Y880
	No	5 qt	49EP17
Mobil 1™			
0W-20	1	1 qt	4NYX8
0W-30	1	1 qt	5XB57
0W-40	No	1 qt	4NYX9
5W-20	1	1 qt	3GZY1
5W-30	1	1 qt	5XB56
10W-30	No	1 qt	5XB58
15W-50	No	1 qt	4NYY1
Pennzoil®			
10W-30	No	1 qt	33GR04
Pennzoil® Platinum™			
0W-20	No	1 qt	33GR03
	No	55 gal	33GR02
5W-20	No	1 qt	33GR07
	No	55 gal	33GR08
5W-30	No	1 qt	33GR09
	No	5 qt	33GR11
	No	55 gal	33GR42
Pennzoil® Ultra Platinum™			
5W-20	No	1 qt	33GR16
5W-30	No	1 qt	33GR17
	No	55 gal	33GR10
10W-30	No	1 qt	33GR15
Pennzoil® Ultra Platinum™ European Engine			
5W-40	No	1 qt	33GR21
	No	55 gal	33GR22
Quaker State® Ultimate Durability™			
0W-20	No	55 gal	33GR87
5W-30	No	55 gal	33GR95
Quaker State® Ultimate Durability™ European Engine			
5W-30	No	55 gal	33GT03
5W-40	No	55 gal	33GT01
Valvoline® MaxLife™			
0W-20	No	55 gal	453A81
5W-20	No	55 gal	453A83
Valvoline® Max Tech			
0W-20	No	5 qt	453A94
	No	55 gal	453A97
5W-20	No	55 gal	453A98
5W-30	No	55 gal	453A68
	No	325 gal	453A99
10W-30	No	325 gal	453C01
Valvoline® Synpower®			
0W-20	1	32 oz	4NPH4
0W-40	No	1 qt	453A95
5W-20	No	5 gal	453C16
	1	32 oz	4NPH6
5W-30	2	1 qt	46KK48
	No	5 gal	453C12
	No	5 gal	453C14
	1	5 qt	46KK41
	1	32 oz	4NPH8
	No	55 gal	453A69
	No	55 gal	453C35
5W-40	No	5 gal	453C10
	2	32 oz	4NPH9
	No	55 gal	453C36
10W-30	No	5 qt	46KK47
	No	32 oz	4NPH5
	No	55 gal	453C37
20W-50	No	32 oz	4NPH7
Valvoline® Synpower® High Mileage Detergents, High Mileage			
0W-20	1	1 qt	46KK49
5W-20	1	1 qt	46KK50
Valvoline® Synthetic MaxLife™ High Mileage Detergents, High Mileage			
5W-30	1	32 oz	4NPH2
10W-30	No	32 oz	4NPH3
Valvoline® VR1			
20W-50	No	1 qt	453A66

Small Engine and Marine Oil

Lubricants are made to meet the requirements of engines that require an oil/gasoline premix; variable ratio oil injection systems; and motorcycles, ATVs, inboard/outboard boat engines.

Brand	SAE Grade	Size	Base Oil	Std.	Item No.
Gasoline Engines					
Motorcycles					
Valvoline®	10W-40	1 qt	Conventional	API, JASO	4NPJ1
	20W-50	1 qt	Conventional	API, JASO	4NPJ2
Marine					
Quicksilver	25W-40	1 qt	Conventional	FC-W and FC-W Catalyst Compatible	52HG15
ATV/UTV					
Valvoline®	10W-40	1 qt	Conventional	API, JASO	4NPJ4
2-Cycle Engines					
Marine					
Pennzoil®		1 gal	Synthetic Blend	TC-W3	33GR36
Quicksilver		1.1 gal	Conventional	—	52HG19
Valvoline®		1 gal	Conventional	BIA, NMMA TCW3	453A77
		1 qt	Conventional	BIA, NMMA TCW3	453A90
		16 oz	Synthetic Blend	BIA, NMMA TCW3	4NPN8
Chain Saws, Garden Equipment, Motorcycles, Snowmobiles					
Lubrimatic		1 qt	Conventional	—	41AA47

Brand	SAE Grade	Size	Base Oil	Std.	Item No.
Chain Saws, Garden Equipment, Marine, Motorcycles, Snowmobiles					
MAG 1®		1 gal	Conventional	API TC, JASO FB, NMMA TCW-3	20RW79
		1 qt	Conventional	API TC, JASO FB, NMMA TCW-3	43Y867
		16 oz	Conventional	API TC, JASO FB, NMMA TCW-3	20RW77
Quicksilver		1 gal	Conventional	TC-W3	52HG18
		16 oz	Conventional	TC-W3	52HG16
Renewable Lubricants		1 gal	Bio-Synthetic	ASTM & TC-W	4JPR2
		1 gal	Bio-Synthetic	ASTM, TC-W & TC-WII	4JPR4
		1 qt	Bio-Synthetic	ASTM & TC-W	4JPR1
		1 qt	Bio-Synthetic	ASTM, TC-W & TC-WII	4JPR3
Valvoline®		1 qt	Synthetic Blend	API TC, ASTM, NMMA, TC-W3 certified	1UCB9
Quicksilver		1 qt	Conventional	—	52HG17

Engine Maintenance Additives

Description	Size	Item No.
Bar's Leaks		
Rear Main Seal Repair	16.9 oz.	36D346
Lucas		
Heavy Duty Oil Stabilizer	32 oz	49EP36
Heavy Duty Oil Stabilizer	1 gal	49EP37
Pure Synthetic Oil Stabilizer	1 qt	49EP48
Marvel Mystery Oil		
Marvel Mystery Oil® Oil Additive	16 oz	19D071
Marvel Mystery Oil® Oil Additive	32 oz	1UET3
Marvel Mystery Oil® Oil Additive	1 gal	1UET4
Motor Medic		
Oil Treatment with Sludge Guard	14 oz	54YG07
Stop Smokin' Oil Treatment	14 oz	54YG08
Oil Optimizer w/ PTFE & Zinc	12 oz	54YG06
Engine Stop Leak	12 oz	54YG24
Pyroil		
Engine Flush	30 oz	21A059
Rislone		
Engine Oil Supplement with Zinc Treatment	11 oz	36D348
Seafoam		
Motor Treatment	16 oz.	20RW99
Slick 50		
Engine Oil Treatment	15 oz	465D28
Sta-Bil		
Fogging Oil	12 oz	2AEP1
STP		
Oil Treatment	15 oz	52HF64
Supercool		
Multipurpose Total Dye	1 oz	4LTU8

4ZF24

52NE01

1UBY7

EVEREST™ CITGO LUBRICANTS MAG1 Mobil Shell Valvoline Mystik LUBRICANTS

Diesel Engine Oil

Lubricants are designed to maintain performance and extend the life of diesel motors.

SAE Grade	Size	Item No.
Conventional		
All Fleet All Fleet®		
15W-40	5 gal	54YF17
	55 gal	54YF18
Chevron		
15W-40	1 gal	52HG06
	1 qt	52HG05
CITGO® Citgard 600		
15W-40	1 gal	33ME30
	55 gal	33ME29
10W	55 gal	33ME28
MAG 1®		
10W-30	1 gal	20RW86
15W-40	1 gal	43Y894
	1 qt	43Y899
	2.5 gal	49EP08
	55 gal	43Y901
30W	1 qt	43Y902
	5 gal	43Y896
40W	5 gal	43Y897
Mobil Delvac™ 1230		
30W	1 qt	6KXK8
Mobil Delvac™ 1300 Super		
15W-40	1 gal	4ZF24
Mobil Delvac™ MX		
15W-40	1 gal	4NYY4
	1 qt	4NYY3
Shell		
30W	1 gal	56RU30
Shell Rotella® T1		
30W	1 qt	33GP53
	55 gal	33GP50
40W	1 gal	52ND95
	5 gal	33GP56
50W	55 gal	33GP58
10W	55 gal	33GP49
Shell Rotella® T4		
10W-30	1 gal	52ND96
	55 gal	52ND97
15W-40	1 gal	52NE01
	2.5 gal	52ND99
	5 gal	52NE02
	55 gal	52NE03
Shell Rotella® T5		
10W-30	1 gal	52NE09
	2.5 gal	52NE08
Valvoline® All-Fleet® Plus		
15W-40	1 gal	4NPT8
	1 qt	1UBY6
	5 gal	4NPT7
	55 gal	2MWE1
30W	1 qt	1UBY8
	5 gal	4NPT4
40W	5 gal	4NPT6
Valvoline® Premium Blue™		
15W-40	1 gal	1UBY7
	5 gal	4NPR8
	55 gal	2MWE3
Full Synthetic		
MAG 1®		
5W-40	1 gal	43Y898
Mobil Delvac™ 1		
5W-40	1 gal	5XB62
Shell Rotella® T6		
5W-40	1 gal	52NE06
	1 qt	33GP72
Valvoline® Premium Blue™		
5W-40	1 gal	4NPT1
	55 gal	453C31
Synthetic Blend		
CITGO® Citgard 700		
10W-30	1 gal	54HD75
Mystik JT-8		
15W-40	2 gal	33MF01
	2 gal	400F53
	5 gal	400F52
	55 gal	400F54
15W-50	5 gal	33MF03
	55 gal	33MF02
Shell Rotella® T5		
10W-30	55 gal	52NE07
15W-40	1 gal	52NE10
Valvoline® Premium Blue™		
10W-30	1 gal	46KK33
	55 gal	453A89
5W-40	1 gal	453C04

6MGJ8

48RH21

54UD30

Valvoline PEAK KleenDEF

DEF Diesel Exhaust Fluid

Specially blended to help meet the EPA's near-zero emission requirements in selective catalytic reduction (SCR) diesel engines.

Size	Item No.
Valvoline Premium Blue™	
2.5 gal	6MGJ8
330 gal	21A076
Peak Blue DEF	
1 gal	48RH21
2.5 gal	48RH22
55 gal	48RH23
330 gal	48RH24
Kleen Def	
2.5 gal	54UD30
55 gal	54UD31

487A71

PEAK

BlueDEF® Transfer Pumps

GPM	Hose Length	Includes	Voltage	Item No.
Electric Operated Drum Pump				
7 to 9	20 ft	Bracket, Dispense Hose, Fittings, Nozzle, Pump, Suction Hose	115VAC	48RH25
8 to 10	13 ft	Discharge Hose, Drum Adapter, Polyethylene Nozzle	120VAC	487A71
8 to 10	13 ft	Discharge Hose, Drum Adapter, Polyethylene Nozzle	12VDC	487A72
Electric Operated Tote Pump				
8 to 10	20 ft	4 ft Suction, Discharge Hose, Stainless Steel Nozzle	120VAC	487A77
8 to 10	20 ft	4 ft Suction, Discharge Hose, Polyethylene Nozzle	120VAC	487A76
8 to 10	20 ft	4 ft Suction, Discharge Hose, Polyethylene Nozzle	12VDC	487A79
Hand Operated Drum Pump				
1	10 ft	10 ft DEF Dispense Hose and Poly Nozzle, 2 in Bung Adapter, Expandable Down Tube	—	48RH27
0.13	20 ft	Drum Adater, Expandable Downtube	—	487A70

1YHR3

49U501

49EP32

10N802

CRC DIESEL POWER! DIESEL ADDITIVES B3C Fuel Solutions POWER SERVICE PS Diesel Additives STA-BIL

Diesel Fuel Additives

Description	Treats up to	Size	Item No.
Diesel Fuel			
CRC			
Diesel Cold Flow™ Diesel Fuel Anti-Gel with Lubricity	500 gal Fuel	1 qt	1YHR9
Diesel Fuel Therapy® Diesel Injector Cleaner	125 gal Fuel	1 qt	1YHR3
Diesel Power			
Diesel System Cleaner and Cetane Booster	150 gal Fuel	20 oz	2AEN9
	150 gal Fuel	20 oz	2AEN8
DieselPower!® Diesel Fuel Anti-Gel	Anti-Gel Protection Down to -40°F, Removes Water to Prevent Corrosion	32 oz	481Z31
DieselPower!® Performance Improver and Cetane Booster	150 gal Fuel	20 oz	2AEN7
Diesel/Bio-Diesel Blends			
B3C Fuel Solutions			
Diesel Mechanic In A Bottle™ Diesel System Cleaner	1 oz or per 10 gal Fuel	8 oz	49U499
	1 oz or per 10 gal Fuel	24 oz.	49U501
	1 oz or per 10 gal Fuel	1 gal	49U502
CRC			
Diesel Fuel Therapy® Diesel Injector Cleaner with Anti-Gel	125 gal Fuel	1 qt	1YHP1
Howes Lubricants			
Diesel Fuel Additive	Fuel Additive	64 oz	49EP21
Lubricator Diesel Treatment	Fuel Additive	32 oz	49EP22
Lucas			
Diesel Fuel Additive	Fuel Additive	32 oz	49EP38
Power Service Products			
Bio Kleen® Diesel Fuel Biocide	320 gal Fuel	16 oz	49EP34
Clear-Diesel® Diesel Fuel and Tank Cleaner	100 gal Fuel	32 oz	49EP35
Diesel 911® Gelled Diesel Fuel Additive	100 gal Fuel	32 oz	49EP32
Diesel Fuel Supplement® +Cetane Boost®	100 gal Fuel	32 oz	49EP25
	3750 gal Fuel	2.5 gal	49EP27
Diesel Kleen® +Cetane Boost® Diesel System Cleaner and Cetane Booster	100 gal Fuel	32 oz	49EP29
	3750 gal Fuel	2.5 gal	49EP31
Sta-Bil			
Diesel Fuel Stabilizer	320 gal Fuel	32 oz.	10N802
	1280 gal Fuel	1 gal.	10N803

2AEP6

19MX37

465D32

20RW72

20RW74

2WCF6

49U487

49U494

20RX01

Fuel Additives

Description	Size	Brand	Item No.	Pkg. Qty.
Gasoline				
Antifreeze and Water Remover	12 oz	Heet	2AEP6	1
Fuel Injection and Carb Cleaner	14.5 oz	CRC	19MX37	1
	6 oz	Gumout	465D32	1
	12 oz	Mag 1	20RW72	1
Fuel Injection Cleaner	6 oz	Gumout	465D30	1
Fuel Injector and Intake Valve Cleaner	12 oz	Mag 1	20RW73	1
Fuel Stabilizer	8 oz	Lucas	460U47	1
Octane Boost	12 oz.	Mag 1	20RW74	1
Octane Booster	15 oz	Lucas	460U45	1
Gasoline and E-85				
Fuel Injector and Intake Valve Cleaner	12 oz.	Valvoline	2WCF6	1

Description	Size	Brand	Item No.	Pkg. Qty.
Gasoline and 2-Cycle				
Ethanol Shield™ Ethanol Fuel Stabilizer	8 oz	B3C Fuel Solutions	49U487	1
	24 oz	B3C Fuel Solutions	49U488	1
	1 gal	B3C Fuel Solutions	49U489	1
Mechanic In A Bottle™ Fuel System Cleaner	8 oz	B3C Fuel Solutions	49U493	1
	24 oz.	B3C Fuel Solutions	49U494	1
	1 gal	B3C Fuel Solutions	49U495	1
Gasoline, Diesel and 2-Cycle				
Antifreeze and Water Remover	12 oz	Heet	2AEP7	1
Gasoline and Diesel				
Fuel Additive	5.25 oz	Lucas	49EP45	1
Fuel System Cleaner	1 gal	Seafoam	20RX01	1

45J377

5TN63

20RW78

46C507

2-Cycle Oil

Gasoline to Oil Mix Table

Mix Ratios	16:1	24:1	32:1	40:1	50:1
US Gallon	US Ounces of Oil				
1	8.0	5.5	4.0	3.2	2.5
2	16.0	10.5	8.0	6.5	5.0
3	24.0	16.0	12.0	9.5	7.5
4	32.0	21.5	16.0	13.0	10.0
5	40.0	26.5	20.0	16.0	13.0

Brand	Size	Item No.	Pkg. Qty.
Conventional			
Echo	2.6 oz	45J377	6
Mag 1	2.6 oz	20RW81	1
	8 oz	20RW80	1
Poly Guard	8 oz	52HG09	1
Sta-Lube	15 oz	5TN63	1
Full Synthetic			
Mag 1	2.6 oz	43Y868	1
Makita	2.6 oz	5JLU1	1
	6.4 oz	5JLU2	1
Synthetic Blend			
Echo	2.6 oz	45J373	6
	16 oz	45J374	1
Mag 1	15.6 oz	20RW78	1
Oregon	1.8 oz	46C507	1

3KB54

5EVX7

10N792

2AEP4

Fuel Stabilizers

K&W® Stor-X® Gas and Diesel Fuel Stabilizer— Helps keep gasoline, diesel, and aviation fuel fresh for up to 12 mo., and promotes easy start-up after storage. Inhibits formation of varnishes, peroxides, and gums.

Sta-Bil® Fuel Stabilizer —Use with all gasoline blends, including ethanol blends up to E-85, to keep fuel fresh and help ensure easy starts after 1 to 24 mo. in storage.

Description	Size	Item No.
K&W		
Stor-X® Gas and Diesel Fuel Stabilizer	8 oz	3KB54
Sta-Bil		
360°® Marine™	8 oz	5EVX7
	32 oz	5EVX8
360°® Protection™	10 oz	10N792
Fuel Stabilizer	4 oz	2AEP2
	10 oz	2AEP3
	32 oz	2AEP5
	128 oz.	2AEP4

46T343

Small Engine Fuel

- 94 octane

Nonethanol fuel is formulated to provide easier starts. Remains stable for up to 2 years once poured into the tank; keeps for up to 5 years in an unopened can.

Size	Item No.	Pkg. Qty.
2-Cycle Premixed Fuel and Oil (50:1)		
1 qt	46T343	8
1 gal	494L03	4
5 gal	46T347	1
54 gal	46T349	1
2-Cycle Premixed Fuel and Oil Multi-Mix (40:1 And 50:1)		
1 gal	494L06	4
2-Cycle Premixed Fuel and Oil (40:1)		
1 gal	494L05	4
4-Cycle Unleaded Fuel		
1 qt	46T342	8
1 gal	494L04	4
5 gal	46T346	1
54 gal	46T348	1

Transmission Fluids

A variety of formulations are offered to help keep automatic and manual transmissions operating effectively. Consult the owners manual for specific recommendations for a given vehicle.

Type	Size	Brand	Item No.
Automatic Transmission Fluid			
For Use With Allison Transmission			
Delvac(TM) Synthetic	1 gal	Mobil	4NYY2
For Use With Chrysler			
ATF + 4(R)	1 qt	Valvoline	1UCB4
	1 qt	Pennzoil	49DR42
	32 oz	Mag 1	20RW84
For Use With Ford			
Mercon(R) V	1 qt	Valvoline	1PKU3
	1 qt	Citgo	45KJ29
	32 oz	Mag 1	49EP20
Type F	1 qt	Mag 1	43Y875
	1 qt	Valvoline	1UCB5
ULV® Synthetic	1 qt	Valvoline	60KT39
For Use With Ford, GM			
Dex-III/Mer	1 gal	Mag 1	43Y873
	1 gal	Valvoline	1UCB6
	1 qt	Mag 1	43Y871
	1 qt	Valvoline	1PKU2
	1 qt	Mobil	5XB55
	2.5 gal	Mag 1	49EP18
	5 gal	Mag 1	43Y872
	5 gal	Valvoline	4NPJ6
	55 gal	Valvoline	2MWD9
	55 gal	Citgo	45KJ35
For Use With GM			
Dexron(R) IIIH	55 gal	Citgo	45KJ27
Dexron(R) VI	1 qt	Valvoline	1UCB7
	1 qt	Citgo	45KJ26
	1 qt	Valvoline	60KT38
For Use With Heavy & Medium Duty Truck			
QuatraSyn® Synthetic ATF	5 gal	Citgo	33ME46
	55 gal	Citgo	33ME45

Type	Size	Brand	Item No.
SYN GARD™ ES Synthetic	5 gal	Valvoline	453A70
	55 gal	Valvoline	453A71
For Use With Import Multi-Vehicle			
Import	1 qt	Valvoline	46KK44
For Use With Multi-Vehicle			
Dex-III/Mer	1 gal	Valvoline	4NPJ5
	1 qt	Valvoline	1PKU4
	1 qt	Pennzoil	40GT23
	1 qt	Citgo	45KJ36
	5 gal	Valvoline	453C11
	32 oz	Mag 1	20RW83
	55 gal	Valvoline	2MWD8
Dexron(R) VI/ Mercon(R) LV	1 qt	Mag 1	43Y874
	1 qt	Citgo	45KJ32
Synthetic ATF	1 qt	Mobil 1	6Y776
Automatic Transmission Fluid with Stop Leak			
Stop Leak	1 qt	Mag 1	43Y860
	1 qt	Valvoline	4NPP8
Continuously Variable Transmission Fluid			
CVT	1 gal	Valvoline	453C06
	1 qt	Valvoline	6MGK0
SynPower CVT	5 gal	Valvoline	453C13
Drive Train Transmission Oil			
For Use With Off-Road Applications			
Drive Train 10W	55 gal	Valvoline	453C23
Drive Train 130W	55 gal	Valvoline	453C24
Drive Train 30W	5 gal	Valvoline	4NPU8
Drive Train 50W	5 gal	Valvoline	4NPU9
	55 gal	Valvoline	453C25
Mobilfluid 424	2.5 gal	Mobil	4ZF29
Mobiltrans HD 10W	5 gal	Mobil	1MRG6
Mobiltrans HD 30W	5 gal	Mobil	1MRG7

1PKU2

45KJ26

4NPJ5

6Y776

43Y860

453C06

Type	Size	Brand	Item No.
Dual Clutch Automatic Transmission Fluid			
For Use With Multi-Vehicle			
DCT Synthetic	1 qt	Valvoline	60KT40
Manual Transmission Fluid			
For Use With Chrysler, GM			
Synchromesh	1 qt	Pennzoil	33GR48
	1 qt	Valvoline	46KK52
For Use With Heavy & Medium Duty Truck			
Delvac 1(TM) 50W	1 gal	Mobil	1MRG2
SAE 50 Synthetic	5 gal	Valvoline	4NPV2
	16 gal	Valvoline	4NPV1
Syn Gard (TM)	5 gal	Valvoline	453C03
SYN GARD™ IS 75W-80	55 gal	Valvoline	453C17
Synthetic HD 50	5 gal	Mag 1	20RW85

49EP41

20RX02

4LTV2

52HJ26

Transmission Accessories

Description	Brand	Item No.
Transmission Additives		
Transmission Stop Slip w/ Leak Repair, 32 oz	Rislone	2EXX8
Transmission Fix Stop Slip, 24 oz.	Lucas	49EP41
Transmission Cleaner, 16 oz.	Seafoam	20RX02
Transfusion Automatic Transmission Sealer & Cleaner, 32 oz	Motor Medic	54YG12
Multi Purpose UV Dye, Mix ¼ oz per quart of fluid, 8 oz	Supercool	4LTV2
Transmission Connectors and Repair Accessories		
Transmission Oil Cooler Line Repair Kit, Includes 79 Pieces. 15' Hose For Use With 5⁄16" & 3⁄8" Lines	SUR&R	52HJ26
Transmission Oil Cooler hose, 25 ft 5⁄16 in and 3⁄8 in	SUR&R	52HJ27

Transmission Fluid Exchanger

- 12VDC

Quickly exchanges fluid through the transmission oil dipstick in less than 20 min. Works with all types of automatic transmission fluid for most foreign and domestic vehicles. Has digital keypad, and low fluid alarm with indicator light. Includes two 32 qt. reservoir tanks.

Description	Mfr. Model	Item No.
Transmission Fluid Exchanger	92500	1DZK3

21A069

49EP40

1PKU1

Power Steering Fluids

Brand	Size	Item No.
Chrysler Vehicles, Ford, GM		
Pyroil	12 oz	21A068
	1 qt	21A069
Pyroil w/ Stop Leak	12 oz	21A067
Sta-Lube	15 oz	19MZ81
Valvoline	1 qt	4NPR1
	1 gal	4NPR2
Honda and Acura Vehicles		
Motor Medic	12 oz	54YG04
Pyroil	12 oz	21A062
Most Domestic and Foreign Vehicles		
Bar's Leaks w/ Steering Repair	16 oz	36D349
Lucas w/ Stop Leak	12 oz	49EP40
	32 oz	49EP42
Motor Medic w/ Stop Leak	12 oz	54YG26
	1 qt	54YG02
	1 gal	54YG03
Valvoline MaxLife™	1 qt	1PKU1

SAE Grade	Base Oil	API Category/SAE Standards	Viscosity Index	Container Size	Item No.
CITGO®					
For Differentials, Manual Transmissions, Trucks, Tractors, Industrial Gear Drives, Automobiles, Farm Machinery					
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	143	5 gal	**33ME41**
	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	143	55 gal	**33ME40**
80W-140	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	142	5 gal	**33ME42**
For Heavy-Duty Service In Manual Transmission					
50W	Mineral	API GL-4 and MT-1	151	5 gal	**33ME43**
For Transmissions, Differentials, Final Drives and Other Gear Cases of Trucks, Buses and Farm Equipment					
80W-90	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	99	5 gal	**33ME38**
85W-140	Mineral	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	97	5 gal	**33ME39**
Mag 1®					
Gear Oils					
75W-140	Synthetic	API GL-5 and MT-1; SAE J2360	186	1 qt	**43Y903**
75W-90	Synthetic	API GL-5 and MT-1; SAE J2360	162	1 qt	**43Y904**
80W-90	Mineral	API GL-5 and MT-1; SAE J2360	104	1 qt	**43Y908**
	Mineral	API GL-5 and MT-1; SAE J2360	104	1 gal	**43Y906**
	Mineral	API GL-5 and MT-1; SAE J2360	104	2.5 gal	**43Y905**
85W-140	Mineral	API GL-5 and MT-1; SAE J2360	100	1 qt	**43Y911**
	Mineral	API GL-5 and MT-1; SAE J2360	100	2.5 gal	**43Y909**
	Mineral	API GL-5 and MT-1; SAE J2360	100	5 gal	**43Y910**
Mobil					
Construction, Mining and Agriculture Equipment, Vehicles					
75W-90	Synthetic	ASTM	140	5 gal	**45MY89**
For Axles, Final Drives and Some Manual Transmissions On Cars, Trucks, Tractors and Contractor and Mining Equipment					
80W-90	Mineral	API GL-5, API MT-1, Mil-PRF-2105E, SAE J2360, SCANIA STO-1:0	103	1 qt	**4F979**
	Mineral	API GL-5, API MT-1, Mil-PRF-2105E, SAE J2360, SCANIA STO-1:0	103	2.5 gal	**4ZF27**
85W-140	Mineral	API GL-5, API MT-1, Mil-PRF-2105E, SAE J2360, SCANIA STO-1:0	99	1 qt	**4F980**
	Mineral	API GL-5, API MT-1, Mil-PRF-2105E, SAE J2360, SCANIA STO-1:0	99	2.5 gal	**4ZF28**
For Off-Highway Industries Including: Construction, Mining, Quarrying, and Agriculture. On-Highway Trucks, Buses, and Vans					
75W-90	Synthetic	API GL-5 and MT-1; SAE J2360	140	1 gal	**1MRG1**
Mobil 1					
For Year-round Automotive Use in some Manual Transmissions, Differentials and Light to Medium Duty Gearboxes					
75W-90	Synthetic	API GL-5	142	1 qt	**4F744**
Valvoline™					
For Autos/Light Duty/Heavy Duty Trucks					
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, Eaton, MACK, Meritor, SAE J2360	152	5 gal	**4NPU1**
	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, Eaton, MACK, Meritor, SAE J2360	152	16 gal	**4NPT9**
80W-140	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, Eaton, MACK, Meritor, SAE J2360	146	5 gal	**4NPU2**
For Autos/Light Duty Trucks					
75W-140	Synthetic	API GL-4, GL-5	183	1 qt	**4NPL3**
	Synthetic	API GL-4, GL-5	183	5 gal	**4NPL2**
75W-90	Synthetic	API GL-5 and MT-1; MIL-PRF-2105E, SAE J2360	178	1 qt	**4NPL1**
	Mineral	API GL-4, GL-5	166	1 qt	**4NPK1**
80W-90	Mineral	API GL-4, GL-5	96	1 qt	**4NPK9**
	Mineral	API GL-4, GL-5	96	1 gal	**4NPK8**
	Mineral	API GL-4, GL-5	96	5 gal	**4NPK7**
	Mineral	API GL-4, GL-5	96	16 gal	**4NPK6**
85W-140	Mineral	API GL-4, GL-5	98	1 qt	**4NPK5**
	Mineral	API GL-4, GL-5	98	5 gal	**4NPK3**
90W	Mineral	API GL1	95	5 gal	**4NPU3**
For Autos And Light Duty Trucks					
80W-90	Mineral	API GL-4, GL-5	96	55 gal	**2MWE5**

43Y904

4ZF27

4F744

4NPK8

Gear Oil and Lubricants

Designed to provide the performance specifications for the intended use as defined by the API category level or SAE standard.

Vehicle Grease

Greases are formulated for general purpose, extreme pressure, high-temperature, multipurpose, and other application and performance characteristics.

Description	NLGI Grade	Color	Size	Container Type	Item No.	Pkg. Qty.
Citgo						
Lithoplex® RT Multipurpose Grease	2	Red	14 oz	Tube	**33ME75**	1
Lithoplex® RT Multipurpose Grease	2	Red	120 lb	Drum	**33ME74**	1
CRC						
STA Lube New Generation™ Wheel Bearing Grease	2	Amber	14 oz.	Can	**12L821**	1
Lucas						
Grease	2	Bright Red	14 oz	Tube	**49EP39**	1
Heavy Duty Grease	2	Green	14.5 oz	Tube	**49EP49**	1
Mag 1						
Extreme Pressure Moly Grease	2	Gray	14 oz	Tube	**43Y916**	1
Marine Grease	2	Blue	14 oz	Tube	**49EP07**	1
Multipurpose Grease	2	Amber	14 oz	Tube	**43Y915**	1
Wheel Bearing Grease	2	Red	14 oz	Tube	**43Y913**	1
Wheel Bearing Grease	2	Red	1 lb.	Can	**43Y912**	1
Mobil						
Delvac™ Xtreme Delvac Extreme Service Grease	2	Orange	13.7 oz	Cartridge	**5ZN13**	1
Mobilgrease® XHP 222 Multipurpose Auto Grease	2	Gray	13.7 oz	Cartridge	**4ZF44**	1
Mobilith SHC 007 Wheel Hub Grease	00	Red	35.2 lb	Pail	**1TLG8**	1
Mobil 1						
Mobil 1® Bearing Grease	—	Red	13.4 oz	Cartridge	**6Y777**	1
Mystik						
JT-6® High Temperature Grease	2	Gray/Black	14 oz	Tube	**33MF19**	1
JT-6® High Temperature Grease	2	Red	3 oz	Tube	**33MF14**	3
JT-6® High Temperature Grease	2	Red	14 oz	Tube	**33MF13**	1
JT-6® High Temperature Grease	2	Red	35 lb	Can	**33MF11**	1
Plews-Lubrimatic						
White Lithium Grease	2	Ivory	14 oz	Cartridge	**1TBB2**	1

49EP39

5ZN13

4ZF44

33MF13

43Y912

4NPL9

44A073

Description	NLGI Grade	Color	Size	Container Type	Item No.	Pkg. Qty.
Valvoline						
Extreme Pressure Grease	2	Dark Amber	14.1 oz	Cartridge	**4NPL7**	1
Extreme Pressure Grease	2	Dark Amber	1 lb	Tub	**4NPL6**	1
Extreme Pressure Tacky Grease	2	Red	14.1 oz	Cartridge	**4NPU4**	1
Grease	2	Red	14.1 oz	Cartridge	**4NPL9**	1
Grease	2	Gray/Black	14.1 oz	Cartridge	**4NPN2**	1
Multipurpose Grease	2	Red	35 lb	Drum	**44A074**	1
Multipurpose Grease	2	Red	120 lb	Drum	**44A073**	1
Multipurpose Grease	2	Red	400 lb	Drum	**44A072**	1
Multipurpose Grease	2	Dark Amber	35 lb	Pail	**44A090**	1
Multipurpose Grease	2	Dark Amber	120 lb	Keg	**44A089**	1
Multipurpose Grease	2	Red	1 lb	Tub	**4NPL8**	1
Multipurpose Grease	2	Gray/Black	1 lb	Tub	**4NPN1**	1
Tacky Grease	2	Black	14.1 oz	Cartridge	**4NPU6**	1
Cerulean® Grease	2	Blue	35 lb	Pail	**44A077**	1
Cerulean® Grease	2	Blue	120 lb	Keg	**44A076**	1
Cerulean® Tacky Grease	2	Blue	14.1 oz	Cartridge	**4NPU5**	1
DuraBlend™ Extreme Pressure Grease	2	Gray	14.1 oz	Cartridge	**4NPL5**	1
SynPower™ Grease	2	Dark Gray	14.1 oz	Cartridge	**4NPN4**	1
SynPower™ Synthetic Grease	2	Dark Gray/ Buttery	1 lb	Tub	**4NPN3**	1

33ME67

5EVZ1

43Y919

Hydraulic and Lubricant Oil

Hydraulic oils are specially formulated to resist changes in volume and viscosity to keep hydraulic systems running efficiently, even when subjected to harsh conditions. They also lubricate the system to reduce friction between moving parts and help prevent wear and tear on them.

Series	Container Size	Container Style	Base Oil	ISO Viscosity Grade	Item No.
Citgo					
CITGEAR SYN HT 220	5 gal	Pail	Synthetic	220	**33MF33**
HyDurance AW NZ	5 gal	Pail	Mineral	32	**33ME67**
Pacemaker	55 gal	Drum	Mineral	220	**33MF31**
TransGard	5 gal	Pail	Mineral Oil	—	**33ME54**
TransGard	55 gal	Drum	Mineral Oil	—	**33ME53**
K&W					
Trans-X® Posi-Trac®	7 oz	Tube	Petroleum	—	**5EVZ1**
Lucas					
Oil Booster	32 oz	Bottle	Petroleum	840	**460U44**
Oil Booster	1 gal	Jug	Mineral	—	**49EP44**
Mag 1					
AW ISO 32	5 gal	Pail	—	32	**43Y921**
AW ISO 46	5 gal	Pail	—	46	**43Y923**
AW ISO 46	55 gal	Drum	—	46	**43Y922**
AW ISO 68	5 gal	Pail	—	68	**43Y925**
Universal Tractor Trans	1 gal	Jug	Mineral	—	**43Y919**
Renewable Lubricants					
Bio-SynXtra Hydrostatic™	1 gal	Jug	Vegetable Oil	32	**4JPU1**
Bio-SynXtra Hydrostatic™	5 gal	Pail	Vegetable Oil	32	**4JPU2**
Bio-SynXtra™	1 gal	Jug	Vegetable Oil	46	**4JPT8**
Sta-Lube					
Equa-Torque®	4 oz	Tube	Mineral	—	**1YHP2**
Valvoline					
AW 46	55 gal	Drum	Mineral	46	**12W326**
Unitrac	5 gal	Pail	Mineral	—	**12W346**
Universal Tractor	1 gal	Jug	Mineral	—	**12W340**

5EVZ9

1YHP3 44N734

Brake Caliper Grease

Brake lubricants help avoid squealing or screeching while reducing wear and tear. Consult your owners manual for specific recommendations for a given vehicle.

Description	Container Type	Temp. Range	Color	Size	Item No.
CRC					
Brake Caliper Syn Grease	Bottle	-30 to 600°F	Dark Gray	8 oz	**1YHR2**
	Tub	-30 to 600°F	Dark Gray	12 oz	**5EVZ9**
HI-TEMP Disc Brake Bearing Grease	Can	0° to 325°F	Dark Gray	14 oz.	**1YHP8**
Disc Brake Quiet	Aerosol Can	—	Red	12 oz.	**1YHP3**
De-Squeak™ Brake Conditioning Treatment	Aerosol Can	-10° to 1800°F	Gray	16 oz	**1YHR5**
Disc Brake Quiet	Bottle	—	Red	4 oz	**1YHN7**
Super Lube					
Silicone Brake Grease with Syncolon (PTFE)	Tube	-45° to 500°F	White	8 oz.	**44N734**

465D34

2F135

Carburetor Cleaners

Brand	Chlorinated/ Non Chlorinated	Flammable	Container Size	Item No.	Pkg. Qty.
Less Than or Equal to 10% / 10g/L					
CRC	Non Chlorinated	Yes	16 oz	**19MX68**	1
	Non Chlorinated	Yes	20 oz	**19MX69**	1
Gumout	Non Chlorinated	Yes	14 oz	**465D34**	1
	Non Chlorinated	Yes	16 oz	**465D33**	1
Gunk	Non Chlorinated	Yes	12.5 oz	**54YK17**	1
K&W	Non Chlorinated	Yes	24 oz	**19MY86**	1
10% to 50% / 10 to 500g/L					
CRC	Non Chlorinated	Yes	12 oz	**2F135**	1
Gunk	Chlorinated	Yes	12.5 oz	**54YK18**	1
	Chlorinated	Yes	19 oz	**54YK19**	1
Greater Than 50% / 500g/L					
3M	Non Chlorinated	Yes	8.5 oz	**2CTF9**	1
CRC	Non Chlorinated	Yes	20 oz	**35WT62**	1

4NPR4

Brake Fluids

Consult the owners manual for specific recommendations for a given vehicle.

Brand	Size	Item No.
DOT 3		
Pyroil	12 oz	**4NPR4**
	1 qt	**4NPR5**
	1 gal	**4NPR3**
Mag 1	12 oz	**20RW69**
Motor Medic	12 oz	**54YF96**
	1 qt	**54YF95**
	1 gal	**54YF94**
DOT 4		
Pyroil	12 oz	**4NPR6**
	32 oz	**4NPR7**
Motor Medic	12 oz	**54YG25**
	1 qt	**54YG10**
DOT 5		
Motor Medic	11 oz	**54YG22**
	1 qt	**54YG23**

21A070

Starting Fluids

Brand	Size	Item No.	Pkg. Qty.
For Use With Diesel and 2-Cycle, Gasoline			
Pyroil	11 oz	**21A070**	1
Pyroil	7.2 oz	**21A071**	1
For Use With Gasoline and Diesel Engines without Glow Plugs			
Motor Medic	11 oz	**54YG01**	1
Motor Medic	7.5 oz	**54YG21**	1

33KL41 5YK76 54YK23 4KK68 21A052 43NT06 35WT63

16W546 4LRG3 36GG84 20RW67 21A073 20RW98 456L13

Brake Parts Cleaner/Degreasers

Formulated to dampen vibrations that can cause brake noise. These cleaner/degreasers quickly remove brake fluid, grease, oil, and other contaminants from brake linings and pads.

Brand	Flammable	Container Type	Container Size	Item No.	Pkg. Qty.
Non Chlorinated					
CRC Brakleen®	Yes	Aerosol Can	20 oz	**13P447**	1
	Yes	Pail	5 gal	**20KY55**	1
	Yes	Drum	55 gal	**3APL5**	1
	Yes	Bottle	1 gal	**33KL41**	1
	Yes	Aerosol Can	20 oz	**19MX51**	1
CRC Brakleen® 50 State Formula	Yes	Aerosol Can	20 oz	**4DKZ6**	1
	Yes	Pail	5 gal	**32HF18**	1
	Yes	Drum	55 gal	**5UWE6**	1
CRC Brakleen® Low VOC	Yes	Aerosol Can	20 oz	**5YK76**	1
	Yes	Pail	5 gal	**32HF19**	1
Gunk	Yes	Aerosol Can	14 oz	**54YK24**	1
Gunk 33 State Formula	Yes	Aerosol Can	14 oz	**54YK21**	1
Gunk 45 State Formula	Yes	Aerosol Can	14 oz	**54YK22**	1
Gunk 50 State Formula	Yes	Aerosol Can	14 oz	**54YK23**	1
LPS TriFree	Yes	Aerosol Can	20 oz	**4KK68**	1
LPS U-10, 50 State Formula	Yes	Aerosol Can	20 oz	**3RWT7**	1
Pyroil	Yes	Aerosol Can	22.6 oz	**21A052**	1
	Yes	Aerosol Can	13 oz	**21A051**	1
	Yes	Aerosol Can	22.6 oz	**45VH12**	1
	Yes	Pail	5 gal	**21A053**	1
	Yes	Drum	55 gal	**21A054**	1
Pyroil 50 State Formula	Yes	Aerosol Can	22.6 oz	**4LWE5**	1
Pyroil Low VOC	Yes	Aerosol Can	13 oz	**21A063**	1
	Yes	Drum	55 gal	**21A065**	1
Zep	Yes	Aerosol Can	20 oz	**43NT06**	12
Zep Brake Flush	Yes	Bucket	5 gal	**43NT16**	1
	Yes	Aerosol Can	14 oz	**449V24**	12
	Yes	Drum	55 gal	**43NT17**	1
Zep Brake Flush VOC	Yes	Drum	55 gal	**449V25**	1
Zep Brake Wash	Yes	Canister	1 gal	**43NT13**	4
	Yes	Pail	5 gal	**43NT14**	1
	Yes	Drum	20 gal	**449V27**	1
Zep Z-Maxx Brake Wash	Yes	Drum	55 gal	**453D72**	1
Chlorinated					
CRC Brakleen®	No	Aerosol Can	19 oz	**5YK77**	1
	No	Pail	5 gal	**32HF20**	1
	No	Drum	55 gal	**32HF21**	1
	No	Aerosol Can	20 oz	**35WT63**	1
	No	Jug	1 gal	**35WT64**	1
Gunk 48 State Formula	No	Aerosol Can	19 oz	**54YK25**	1
Pyroil	No	Aerosol Can	18 oz	**1PKT6**	1

Corrosion Protection and Lubrication

Create a nondrying protection barrier that moisture and corrosion cannot penetrate. Formula contains no solvents and will not evaporate or remain tacky. Designed to remain active for long-term protection that resists water wash off.

Container Type	Container Size	Item No.
Aerosol Can	2.25 oz	**10N784**
Aerosol Can	11.75 oz	**10N783**
Brush-Top Can	8 oz	**10N785**
Can	1 gal	**10N786**
Pail	5 gal	**10N787**
Drum	55 gal	**10N788**

10N785 10N784

Lubricants, Penetrants, and Corrosion Inhibitors

Nondrying, anticorrosive coatings protect metal from moisture, salt air, and saltwater; preventing further corrosion. Helps create a moisture barrier that provides long-lasting lubrication for moving parts.

Description	Container Size	Mfr. Model	Item No.	Pkg. Qty.
Blaster				
High-Performance White Lithium Multipurpose Grease	11 oz	16-LG	**16W545**	1
Industrial Strength Silicone General Purpose Lubricant	16 oz	16-SL	**16W546**	1
Original PB B'laster Penetrating Lubricant	11 oz	16-PB-DS	**4LRF8**	1
Pro-Grade General Purpose Lubricant	6 oz	PB-50-TS	**48GG07**	1
Pro-Grade General Purpose Lubricant	1 gal	PB-50	**4LRG3**	1
CRC				
Heavy Duty Silicone General Purpose Lubricant	12 oz	05074	**19MX42**	1
Industrial Silicone General Purpose Dry Lubricant	16 oz	03032	**36GG84**	1
Water Based Silicone General Purpose Lubricant	16 oz	03035	**4YPJ3**	1
Mag 1				
Silicone Lubricant	10.5 oz.	MAG00440	**20RW67**	1
Pyroil				
Penetrant	11 oz.	596555	**21A050**	1
General Purpose Lubricant	12 oz	PYSLS10	**21A073**	1
Seafoam				
Penetrant	12 oz.	SF00DC14	**20RW98**	1
Zep				
2000 General Purpose Lubricant	13 oz	416401	**43NR69**	12
45 General Purpose Lubricant	17 oz	17401	**449V06**	12
45 Dual Force General Purpose Lubricant	14 oz	374301	**43NR68**	12
45 Dual Force PP General Purpose Lubricant	14 oz	325101	**449V37**	12
45 Sidewinder Penetrating Lubricant	20 oz	B41801	**456L13**	12
70 General Purpose Lubricant	15 oz	3001	**449V09**	12
Master Mechanic NC Penetrating Lubricant	15 oz	915701	**456L12**	12
ML General Purpose Lubricant	16 oz	731301	**449V65**	12
Super Penetrating Lubricant	20 oz	25001	**456L17**	12

Electronic Parts, Sensors, and Contact Cleaners

Nondrip, fast-drying cleaners help dissolve grease and dirt and restore electronics and sensors performance.

1YHN3 449V41 54YK42

Item	Container Size	Mfr. Model	Item No.
CRC			
Precision Cleaner	13 oz	03200	**32UN52**
Electronic Cleaner	16 oz	05110	**1YHN8**
Lectra-Motive® Electronic Parts Cleaner	20 oz	05018	**1YHN3**
Zep			
ZEP SUPER ECC Contact Cleaner	10 oz	352401	**451F05**
ZEP DYNAMO Contact Cleaner	14 oz	35001	**449V41**
ZEP ZEPELEC II PLUS Contact Cleaner	16 oz	28301	**449V99**
Gunk			
Electronic Contact Cleaner	11 oz	PD11CC	**54YK44**
Electronic Contact Cleaner	20 oz	NM1	**54YK42**

2EXW9

SPLASH SEE SAFELY.™

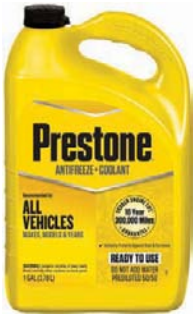
RV/Marine Antifreeze

Convenient, ready-to-use product is made with renewable resources and safe for incidental contact with people, pets, and wildlife. Nontoxic to aquatic life.

Freezing Point (°F)	Color	Size: 1 gal Item No.	Size: 55 gal Item No.
Blended RV/Marine Antifreeze			
-50 °F	Pink	49GU89	49GU90
Premium RV/Marine Antifreeze			
-50 °F	Pink	2EXW9	49GU91
-100 °F	Purple	—	40Z943

Peak
48ZE68

Polar
43Y929



Prestone
48RD29

Valvoline
6EMX7

Zerex
2WCF8

PEAK POLAR Prestone Valvoline ZEREX

Traditional Antifreeze/Coolants

Consult the vehicle manufacturer's specified coolant recommendation.

Description	Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Peak				
Conventional Green	1 gal	Green	48ZE68	48ZE66
Conventional Green	55 gal	Green	—	48ZE67
Full Force®	55 gal	Green	48ZE73	—
Global® LifeTime®	1 gal	Amber	48ZE71	48ZE69
Global® LifeTime®	55 gal	Amber	48ZE72	48ZE70
Polar				
Classic Green	1 gal	Green	43Y929	43Y927
Long Life	55 gal	Green	43Y928	43Y930
Prestone				
Cor-Guard™	1 gal	Yellow	48RD29	48RD30
Cor-Guard™	55 gal	Yellow	56MX67	—
Prime®	1 gal	Green	48RD27	48RD28
Prime®	55 gal	Green	56MX66	—
Prime®	275 gal	Green	56MX65	—
Valvoline				
Multi-Vehicle	1 gal	Yellow	6EMX7	6EMX8
Multi-Vehicle	55 gal	Yellow	453A72	453A73
Zerex				
Original Green	1 gal	Green	2WCF8	1UCC1
Original Green	55 gal	Green	2MWE7	2MWE6
Original Green	275 gal	Green	453A82	453A75

Peak
48ZE76

Polar
20RW90

Prestone
56FZ66

Zerex
1PKU5

PEAK POLAR Prestone ZEREX

Vehicle Specific Antifreeze/Coolants

Consult the vehicle manufacturer's specified coolant recommendation.

Description	Size	Color	Ready-to-Use Item No.	Concentrated Item No.
Peak				
FINAL CHARGE® Global Extended Life	1 gal	Red	48ZE80	48ZE78
	55 gal	Red	48ZE81	48ZE79
FINAL CHARGE® NOAT Extended Life	1 gal	Red	48ZE84	48ZE82
	55 gal	Red	48ZE85	48ZE83
Fleet Charge® SCA Precharged	1 gal	Pink	48ZE76	48ZE74
	55 gal	Pink	48ZE77	48ZE75
Polar				
DEX-COOL®	1 gal	Yellow	20RW90	20RW89
Prestone				
Command® HD Nitrite Free ELC with Cor-Guard™	1 gal	Red	56FZ66	—
	55 gal	Red	56FZ67	—
Command® Heavy Duty Extended Life	1 gal	Red	48RD33	48RD35
	55 gal	Red	48RD34	—
	275 gal	Red	56MX62	—
Command® Heavy Duty Extended Service Interval	1 gal	Purple	48RD32	—
Command® Heavy Duty Nitrite Free Extended Life	1 gal	Yellow	48RD36	48RD38
	55 gal	Yellow	48RD37	—
	275 gal	Yellow	56MX63	—
	275 gal	Red	56MX64	—
DEX-COOL®	1 gal	Orange	48RD31	—
Zerex				
Asian Vehicle Blue	1 gal	Blue	453C02	—
Asian Vehicle Red	1 gal	Pink	6MGK1	—
	55 gal	Red	453A65	—
DEX-COOL®	1 gal	Orange	1PKU5	1UCC3
	55 gal	Orange	2MWE9	2MWE8
Extender Coolant Additive	32 oz	Red	4NPP7	—
Fully Formulated Heavy Duty	55 gal	Pink	453A86	453A88
	275 gal	Pink	453A87	—
G05	1 gal	Yellow	1PKU6	4NPN9
	55 gal	Yellow	2MWF2	2MWF1
	55 gal	Pink	453A76	—
G40	1 gal	Pink, Violet	60KT44	60KT41
	55 gal	Pink	—	453A67
	275 gal	Pink, Violet	60KT45	60KT43
G48	1 gal	Blue	453A96	60KT46
	55 gal	Blue	60KT48	453C40
	275 gal	Blue	60KT49	60KT47
Heavy Duty Extended Life	1 gal	Red	1UCC5	4NPP1
	55 gal	Red	453C39	453C38
Heavy Duty Extended Life Nitrite Free	1 gal	Yellow	46KK37	46KK38
	55 gal	Yellow	46KK36	46KK39
Pre-Charged Heavy Duty	55 gal	Green	453C41	—
Pre-Charged Heavy Duty	1 gal	Green	1UCC4	—

Windshield Washer Fluids

Clean road film, grime, and bugs from windshield. De-Icer additive in select products helps defrost and also helps prevent washer freezeup.

Item	Freezing Point (°F)	Color	Brand	1 gal Item No.	55 gal Item No.
Pre-Mixed Ready to Use					
All Season					
Windshield Washer	-20 °F	Blue	Splash	**2EXW5**	**3YNC4**
	—	Blue	Zep	—	**43NT21**
Windshield Washer/De-Bug/ De-Icer/Water Repellent	-28 °F	Clear Green	Prestone	—	**49XW66**
	-28 °F	Clear Yellow	Prestone	**49XW75**	—
Windshield Washer/De-Icer	-34 °F	Yellow	Prestone	**49XW62**	**49XW65**
Summer Blend					
Windshield Washer	32 °F	Blue	Splash	**2EXW7**	—
Windshield Washer/De-Bug	32 °F	Green	Prestone	**49XW63**	**49XW67**

Item	Freezing Point (°F)	Dilution Ratio	Color	Size	Brand	Item No.
Additive/Concentrate						
All Season						
Windshield Washer	-144 °F	1:6	Dark Blue	16 oz	Gunk	**54YK28**
Windshield Washer	-144 °F	1:1 to 1:48	Dark Blue	5 gal	Gunk	**54YK29**
Windshield Washer	5 °F	1:3 to 1:5	Clear Blue	1 qt	Zep	**453D20**
Windshield Washer	5 °F	1:3 to 1:5	Clear Blue	20 gal	Zep	**453D21**
Windshield Washer	5 °F	1:3 to 1:5	Clear Blue	1 gal	Zep	**453D22**
Windshield Washer	5 °F	1:3 to 1:5	Clear Blue	5 gal	Zep	**43NT20**
Summer Blend						
Windshield Washer	32 °F	1 Tablet:1 Gal.	Blue	1 Tablet	303	**2RPZ3**
Windshield Washer	32 °F	1:32	Blue	5 gal	Clear Vision	**44X063**
Windshield Washer	32 °F	1:32	Blue	55 gal	Clear Vision	**44X064**
Windshield Washer	—	1:32	Blue	6 oz	Gunk	**54YK27**
Windshield Washer/De-Bug	32 °F	1:32	Blue	4 oz	Clear Vision	**44X062**
Treatment						
De-Icer						
Windshield Washer	-58 °F	—	Clear	15 oz	Prestone	**49XW68**

Multiuse De-Icers

Spray-on products melt ice, snow, and frost from windshields, locks, head- and taillights, and other surfaces.

Brand	Container Type	Size	Freezing Point (°F)	Item No.
Windshield De-Icer				
CRC	Aerosol Can	16 oz	-144 °F	**5VE68**
Motor Medic	Aerosol Can	12 oz	-144.4 °F	**54YG19**
Prestone	Aerosol Can	11 oz	-58 °F	**49XW69**
Prestone	Aerosol Can	17 oz	-58 °F	**49XW71**
Prestone	Spray Bottle	32 oz	-50 °F	**49XW73**
Prestone	Spray Bottle	32 oz	-88 °F	**49XW77**
Sprayway	Aerosol Can	20 oz	—	**45C019**
Zep	Aerosol Can	20 oz	—	**449V62**
Lock Dry Lubricant				
CRC	Aerosol Can	1.5 oz.	—	**48TA27**
Lock De-Icer and Lubricant				
Subzero	Aerosol Can	0.625 oz	-127 °F	**1EZH2**

Windshield Wiper Blades

Note: Find more wiper blades on Grainger.com®. Search for "Windshield Wiper Blades."

Trico Force™—Features an aerodynamic spoiler that cuts through excessive wind speeds of up to 135 mph caused by cross and truck winds, and general traffic turbulence.

HD®—These wide saddle blades are designed for use on heavy-duty trucks, RVs, and buses

Exact Fit®—Provide the exact same fit as original factory blades for vehicles with conventional metal wiper blades.

Tech®—Feature Memory Curve Steel® beam that provides uniform pressure for a clean wipe.

30 Series—Have a precision-cut rubber edge for outstanding wiping action and conforms to highly curved windshields of later-model vehicles.

Size (in.)	Force® Mfr. Model	Force® Item No.	HD® Mfr. Model	HD® Item No.	ExactFit® Mfr. Model	ExactFit® Item No.	Tech® Mfr. Model	Tech® Item No.	30 Mfr. Model	30 Item No.	Ice® Mfr. Model	Ice® Item No.	Chill® Mfr. Model	Chill® Item No.
11 in	—	—	61-110	**48VD93**	11-A	**52YP08**	—	—	30-110	**48VD54**	—	—	37-111	**48VD79**
13 in	—	—	61-130	**48VD95**	13-1	**48VD28**	19-130	**48VD41**	30-130	**48VD55**	35-130	**48VD67**	37-131	**48VD80**
15 in	25-150	**426C63**	61-150	**48VD97**	15-1	**48VD30**	19-150	**48VD42**	30-150	**48VD56**	35-150	**48VD68**	37-150	**48VD81**
16 in	25-160	**426C64**	61-160	**48VD98**	16-1	**48VD31**	19-160	**48VD43**	30-160	**48VD57**	35-160	**48VD69**	37-160	**48VD82**
17 in	25-170	**426C65**	61-170	**48VD99**	17-1	**48VD32**	19-170	**48VD44**	30-170	**48VD58**	35-170	**48VD70**	37-170	**48VD83**
18 in	25-180	**426C66**	61-180	**48VE01**	18-1	**48VD33**	19-180	**48VD45**	30-180	**48VD59**	35-180	**48VD71**	37-180	**48VD84**
19 in	25-190	**426C67**	61-190	**48VE02**	19-1	**48VD34**	19-190	**48VD46**	30-190	**48VD60**	35-190	**48VD72**	37-190	**48VD85**
20 in	25-200	**426C68**	61-200	**48VE03**	20-1	**48VD35**	19-200	**48VD47**	30-200	**48VD61**	35-200	**48VD73**	37-205	**48VD86**
21 in	25-210	**426C69**	61-210	**48VE04**	21-1	**48VD36**	19-210	**48VD48**	30-210	**48VD62**	35-210	**48VD74**	37-210	**48VD87**
22 in	25-220	**426C70**	61-220	**48VE05**	22-1	**48VD37**	19-220	**48VD49**	30-221	**48VD63**	35-220	**48VD75**	37-225	**48VD88**
24 in	25-240	**426C71**	67-241	**48VE18**	24-1	**48VD38**	19-240	**48VD50**	30-240	**48VD64**	35-240	**48VD76**	37-245	**48VD89**
26 in	25-260	**426C73**	67-261	**48VE19**	26-1	**48VD39**	19-260	**48VD51**	30-260	**48VD65**	35-260	**48VD77**	37-260	**48VD90**
28 in	25-280	**426C74**	67-281	**48VE20**	28-9	**48VD40**	19-280	**48VD52**	30-280	**48VD66**	35-280	**48VD78**	37-280	**48VD91**

Ice®—Helps protect wiper components from damaging ice and snow. Heavy-gauge PTFE-infused wiper element resists tearing in subzero temperatures.

Chill®—Feature a protective rubber boot to help prevent snow and ice from clogging the wiper, producing a clean wipe every time.

54YK30

6TUK3

Glass Care

Windshield treatments and cleaners are formulated to help drivers see clearly and keep vehicles looking good.

465D20

48HN78

Item	Container Size	Container Type	Item No.	Pkg. Qty.
Armor All				
Auto Glass Cleaner	22 oz	Package	458R72	1
Auto Glass Cleaner	22 oz	Spray Bottle	458R73	1
Gunk				
Glass Cleaner	19 oz	Aerosol Can	54YK30	1
Oil Eater				
Antifog Windshield Treatment	4 oz	Plastic Bottle	6TUK4	1
Rain Repellent	4 oz	Plastic Bottle	6TUK3	1
Rainx				
Glass Cleaner	16 oz	Plastic Bottle	465D21	1
Glass Cleaner	3.5 oz	Bottle	465D18	1
Glass Cleaner	23 oz	Bottle	465D22	1
Glass Treatment	3.5 oz	Plastic Bottle	465D19	1
Glass Treatment	7 oz	Plastic Bottle	465D20	1
Turtle Wax				
Dash and Glass Cleaner	23 oz	Spray Bottle	48HN78	1
Zep				
Glass and Mirror Cleaner	22 oz.	Aerosol Can	449V67	12

14G872

Window Washers with Squeegee

The soft sponge head provides smooth, even washing, while the squeegee side helps you finish the job thoroughly and cleanly.

Color	Squeegee Blade Width	Squeegee Blade Shape	L	Mfr. Model	Item No.
With Handle					
Black	8 in	Straight	15 in	WS1524A	14G871
Black	8 in	Straight	20 in	WS2024A	14G872
Red	8 in	Straight	30 in	24-808NY-30A	14G866
Silver/White	8 in	Straight	48 in	12-8NY-48	14G867
Blue/Silver	10 in	Straight	49 in to 84 in	4-10NY-E	14G868
Without Handle					
Black	8 in	Straight	No Handle	WSH24	14G873

38X852

Aircraft Cleaners

Products are formulated to meet the exacting requirements of aviation interior and exterior cleaning and maintenance.

Container Type	Size	Recommended Dilution	Item No.	Pkg. Qty.
Aircraft Window Cleaner				
Spray Bottle	1 qt.	Ready to Use	38X852	12
Drum	55 Gal.	Ready to Use	38X853	1
Heavy Duty Aircraft Cleaner				
Bucket	5 gal.	1:1 to 1:128	38X856	1
Drum	55 gal.	1:1 to 1:128	38X857	1

52HF90

1UER3

36G629

45VH21

45VH14

Tire Care

Formulated to remove road grime and help protect tires and other surfaces from the elements.

Brand	Container Size	Container Type	Item No.
Tire and Wheel Cleaner			
3M	16 oz	Plastic Bottle	2CTJ5
Black Magic	18 oz	Aerosol Can	465D25
SuperClean	32 oz	Spray Bottle	55RZ85
Turtle Wax	23 oz	Spray Bottle	1UER2
Tire Dressing			
3M	16 oz	Spray Bottle	2CTN1
Armor All	20 oz	Aerosol Can	52HF90
Black Magic	23 oz	Bottle	52HF89
Enforce	1 gal	—	33J990
Turtle Wax	23 oz	Spray Bottle	1UER3
Zep	14 oz	Aerosol Can	453D60
Tire Shine			
Blue Magic	15 oz	Aerosol Can	36G628
Blue Magic	23 oz	Spray Bottle	36G629
Eagle 1	23 oz	Bottle	45VH21
Gunk	15 oz	Aerosol Can	54YK37
Tire Swipe			
Eagle 1	—	Package	45VH14

52HF75

52JM19

52JM24

1MPY6

Air Fresheners

Fragrance	Item No.	Pkg. Qty.
Little Trees		
Card with String		
Black Ice	52HF68	3
New Car	52HF69	3
Vanilla	52HF73	3
Vanilla	52HF75	6
Bayside Breeze	52HF77	3
Coconut	52HF81	3
Strawberry	52HF83	3

Fragrance	Item No.	Pkg. Qty.
Refresh		
Stick		
Summer Breeze/ Alpine Meadow	52JM19	6
Diffuser		
New Car	52JM23	2
Fresh Linen	52JM24	2
Pure Citrus		
Jar		
Citrus Blend	1MPY6	1
Orange	1MPY5	1
Lemon	1MPY7	1
Zep		
Spray		
Cherry	449V11	1
Yankee Candle		
Card with String		
Midsummer's Night(R)	458R80	3
Car Vent Sticks		
Midsummer's Night(R)	458R81	4
Hopkins		
Disc		
New Car	53VU61	3
Turtle Wax		
Spray/Fogger		
New Car	55AK12	1
Armor All		
Vent Clip		
Coastal Dunes	55FC20	1

2CXX7

48HN72

449V84

Vehicle Wash

Description	Container Size	Item No.	Pkg. Qty.
3M			
Car Wash Soap, Concentrate	1 gal	2CTJ1	1
Car Wash Soap, Concentrate	5 gal	2CTJ2	1
Armor All			
Vehicle Wash	64 oz	52HF84	1
Gunk			
Automotive Cleaner	1 gal	54YK35	1
Automotive Cleaner	64 oz	54YK34	1
Oil Eater			
OIL EATER Fleet Wash Concentrate	1 gal	6TUJ9	1
OIL EATER Fleet Wash Concentrate	5 gal	6TUK0	1
OIL EATER Fleet Wash Concentrate	30 gal	6TUK1	1
OIL EATER Fleet Wash Concentrate	55 gal	6TUK2	1
Rainx			
Car Wash Liquid	100 oz	465D23	1
Simple Green			
Oil Rig Wash	1 gal	35HW55	1
Oil Rig Wash	5 gal	35HW56	1
Oil Rig Wash	55 gal	35HW57	1
Tough Guy			
Vehicle Wash	5 gal	2CXX7	1
Vehicle Wash	55 gal	2CXX8	1
Turtle Wax			
M.A.X.-Power Car Wash	100 oz	48HN72	1
Zip Wax® Car Wash and Wax	64 oz	1UEP8	1
Zep			
Big Z™ Prepainted Aluminum Trailer Wash	20 gal	453C87	1
FORMULA 965 Car and Truck Wash Powdered	35 lb	453D16	1
Megawash™ All Climate Car Wash Concentrate	5 gal	453D25	1
Powder Keg™ Truck and Trailer Wash Powdered	40 lb	453D33	1
Split Vehicle Wash™ Truck and Trailer Wash	55 gal	453D51	1
T'N'T™ Truck And Trailer Wash Concentrate	1 gal	453D58	4
T'N'T™ Truck And Trailer Wash Concentrate	5 gal	453C97	1
T'N'T™ Truck And Trailer Wash Concentrate	—	449V34	1
T'N'T™ Truck and Trailer Wash	55 gal	449V84	1
T'N'T™ Truck And Trailer Wash	—	449V85	1
X-2601 Vehicle Wash	55 gal	453D62	1
ZEP BLUE MARVEL Car/ Truck Foaming Detergent	5 gal	453C91	1
ZEP FORMULA 4358 Car/Truck Wash	35 lb	453D12	1
ZEP MUDSLIDE Concrete Remover	5 gal	453D30	1
Zep-O-Shine™ Car Wash and Wax Concentrate	55 gal	453D69	1
ZEP XT 1398 High pH Presoak	55 gal	453D64	1
ZEP ZEP-O-SHINE Car Wash/Polymer Wax	1 gal	453D68	4
ZEP ZEP-O-SHINE Car Wash/Polymer Wax	5 gal	453D70	1
ZEP ZEP-O-SHINE Car Wash/Polymer Wax	20 gal	453D67	1
Zep Professional			
Vehicle Wash & Wax	5 gal	4UZE1	1
Truck And Trailer Wash Concentrate	1 gal	3AAJ3	1
Truck And Trailer Wash Concentrate	5 gal	3AAJ4	1
Truck And Trailer Wash Concentrate	275 gal	6GHZ8	1
Touchless Foaming Car & Truck Detergent	55 gal	4UZD9	1
Foaming Vehicle Shampoo	1 gal	3AAJ5	1
Foaming Vehicle Shampoo	5 gal	3AAJ6	1
Car Wash Detergent	55 gal	4UZD8	1

Wash Brushes

Flow-thru brushes can be adapted for use with fountain tube, continuous-flow handle, threaded handle, or tapered-tip handle (all sold separately).

39R408 39R412 39R409

Item	Overall Length	Bristle Color	Bristle Material	Item No.
Tough Guy				
Bench Brush	10 in	Gray	Polyester	400F96
Car Wash Brush	10 in	Purple	Polypropylene	2ZPA8
Car Wash Brush	20 in	Blue	Polyvinyl-Chloride	2ZPA7
Car Wash Brush	10 in	White	Soft Split-Tip	3A338
Dip And Wash Brush	8 ½ in	Black, Blue	—	2ZPC8
Flow Through Brush	70 in	Green	Nylon	491R25
Flow Through Brush Head	8 in	Blue	Polypropylene	2ZPC9
Flow Through Brush Head	10 in	Blue	Polypropylene	2ZPC6
Flow Through Brush Head	10 in	Blue	Polypropylene	2ZPC7
Flow Thru Handle	—	—	—	2ZPA3
Tire Brush	11 in	Cream	Cotton	2ZPD5
Truck Wash Brush	10 in	Green	Polystyrene	5A171
Wash Brush	14 in	Blue	Polyester	400F92
Carrand				
Car Wash Brush	10 in	Yellow	PVC	39R408
Car Wash Brush	11 in	Blue	PVC	39R392
Lug Nut Brush	7 in	Gray	PVC	39R399
Power Wash Brush	55 in	Black, White	PVC	39R412
Quad Head Brush	11 in	Gray, White	PVC	39R409
Scrub Brush	6 ½ in	Blue	Polypropylene	39R401
Tire Brush	6 in	Blue	Polypropylene	39R388
Wheel and Brake Dust Remover Brush	12 in	Blue, Yellow	PVC	39R389
Wheel and Bumper Brush	11 in	White	Polypropylene	39R393

1ECE3

1ECD9

Detailing Towel, Cloths, and Wipes

Description	L (in.)	W (in.)	Item No.	Pkg. Qty.
The Absorber® Drying Cloth	27 in	17 in	1ECE3	1
The Absorber® XL Drying Cloth	29 in	18 in	1ECD8	1
The Glosser® Detailing Wipes	25 in	13 in	1ECD9	5

Bug and Tar Removers

Specifically formulated to remove sticky insects, tree sap, and tar.

Brand	Container Type	Size	Item No.	Pkg. Qty.
Blue Magic	Bottle	8 oz	36G627	1
Goo Gone	Bottle	16 oz	39F170	1
Gunk	Aerosol Can	12 oz	54YK36	1
Turtle Wax	Bottle	16 oz	1UER9	1
Zep	Aerosol Can	20 oz	453D19	12

1UER9

453D19

Degreasers and Cleaners

Choose from a variety of degreaser/cleaners that handle countless applications; remove grease, oil, wax, tar, and dirt on contact. Ideal for cleaning floors, degreasing engines, automotive parts, tools, bathrooms, walls, and countertops—leaves surfaces clean.

Item	Container Size	Container Type	Item No.
Blaster			
Cleaner/Degreaser	11 oz	Aerosol Spray Can	4LRF6
CRC			
Engine Degreaser	15 oz	Aerosol Can	5EWA0
Gunk			
Engine Cleaner and Degreaser	15 oz	Aerosol Can	54YK12
Engine Cleaner and Degreaser	17 oz	Aerosol Can	54YK13
Engine Cleaner and Degreaser	32 oz	Spray Bottle	54YK14
Engine Cleaner and Degreaser	15 oz	Aerosol Can	54YK15
Engine Cleaner and Degreaser	17 oz	Aerosol Can	54XU68
Sprayon			
Engine Degreaser	12 oz	Aerosol Can	1D269
SuperClean			
Cleaner/Degreaser	32 oz	Trigger Spray Bottle	3ZLC9
Cleaner/Degreaser	1 gal	Jug	3ZLD2
Cleaner/Degreaser	2.5 gal	Jug	3ZLD4
Cleaner/Degreaser	5 gal	Bottle	3ZLD6

4LRF6

3ZLD6

6YHE6 | 2CTL2 | 458R50 | 458R70 | 5EVY5 | 54YK32 | 45C012 | 19D069 | 48HN77 | 3HUW9

Interior Cleaners and Protectants

Auto detailing products can help keep vinyl, rubber, plastic, leather, and other surfaces looking their best.

Item	Size	Container Type	Item No.
303 Aerospace Protectant			
Vehicle Interior Protectant	16 oz	Plastic Bottle	6YHE6
Vehicle Interior Protectant	1 gal	Plastic Bottle	6YHE5
3M			
Plastic Cleaner	8 oz	Plastic	2CTL2
Armor All			
Automotive Cleaner	22 oz	Spray Bottle	458R49
Automotive Cleaner	48 oz	Bucket	458R51
Automotive Cleaner	20 Wipes	Package	458R71
Automotive Cleaner	16 oz	Spray Bottle	458R74
Cleaning Cloth	—	—	52HF93
Cleaning Cloth	—	—	52HF92
Protectant	28 oz	Plastic Bottle	52JM50
Vehicle Protectant	16 oz	Spray Bottle	458R50
Vehicle Protectant	22 oz	Package	458R70
Blue Coral			
Automotive Upholstery Cleaner	22.8 oz	Aerosol Can	465D29
Blue Magic			
Carpet Spot/Stain Lifter	22 oz	Aerosol Can	1MPV1
Foam Carpet Cleaner with Stain Guard	22 oz	Aerosol Can	5EVY4
Foam Upholstery Cleaner with Stain Guard	22 oz	Aerosol Can	5EVY5
Interior Detailer	8 oz	Bottle	36G626
Leather/Vinyl Cleaner	16 oz	Spray Bottle	1MPV2
Leather Cream Conditioner	16 oz	Spray Bottle	1MPV3
Gunk			
Automotive Carpet Cleaner	22 oz	Aerosol Can	54YK32
Sprayway			
All Purpose Cleaner	19 oz	Aerosol Can	45C023
Fabric Cleaner	19 oz	Aerosol Can	45C016
Interior Detailer	20 oz	Aerosol Can	45C013
Multi-Purpose Shine	11 oz	Aerosol Can	45C012
Turtle Wax			
Automotive Carpet Cleaner	18 oz	Aerosol Can	19D069
Automotive Upholstery Cleaner	18 oz	Aerosol Can	19D070
Leather Cleaner and Conditioner	16 oz	Spray Bottle	48HN77
Vehicle Protectant	23 oz	Bottle	54HR53
Zep			
Foaming Vinyl Cleaner	1 lb 2 oz	Aerosol Can	453D59
Vinyl and Rubber Dressing	1 qt	Spray Bottle	3HUW9
Vinyl and Rubber Dressing	1 gal	Bottle	3HUX1

2CTK8 | 5GVA3 | 45C010 | 60TZ49 | 45VH17 | 20RW96 | 1UER1

Auto Detailing Waxes and Polishes

These products are formulated to give vehicles a smooth, clean shine, protect the paint from harsh environments, or both.

Description	Container Size	Container Type	Item No.
3M			
Quick Wax Spray	16 oz	Spray Bottle	2CTK8
One Step Cleaner Wax	16 oz	Plastic	2CTK9
Performance Finish	16 oz	Plastic	2CTK7
Eagle 1			
Wipe & Shine Auto Detailer	23 oz	Bottle	45VH17
Flitz Premium Polishing Products			
Speed Wax Spray		Spray Bottle	5GVA3
Nu Finish			
Liquid Car Polish	16 oz	Plastic Bottle	20RW96
Sprayway			
Instant Detail Cleaner and Polish	20 oz	Aerosol Can	45C010
Instant Detail Wax	16 oz	Aerosol Can	45C011
Turtle Wax			
Super Hard Shell® Paste Car Wax	14 oz	Tub	1UER4
Super Hard Shell® Liquid Car Wax	16 oz	Bottle	1UEP9
Express Shine Spray Car Wax	16 oz	Spray Bottle	1UER1
Ice® Premium Car Spray Wax	20 oz	Spray Bottle	19D066
Performance Plus™ Clean and Shine Detailer	26 oz	Spray Bottle	48HN76
Premium Grade Polishing Compound	18 oz	Plastic Bottle	55AK11
Hybrid Solutions Ceramic Spray Wax Coating	16 oz	Spray Bottle	60TZ47
Hybrid Solutions Ceramic Spray Wax	26 oz	Spray Bottle	60TZ48
Hybrid Solutions Ceramic Wash & Wax	48 oz	Plastic Bottle	60TZ49
Hybrid Solutions Ceramic Polish & Wax	14 oz	Plastic Bottle	60TZ50
Hybrid Solutions Ceramic Wax 3-in-1 Detailer	32 oz	Spray Bottle	60TZ51
Hybrid Solutions Ceramic Acrylic Black Polish	16 oz	Spray Bottle	60TZ52
Hybrid Solutions Ceramic Acrylic Black Polish	14 oz	Plastic Bottle	60TZ53
Hybrid Solutions Pro Graphene Flex Wax	23 oz	Spray Bottle	60TZ55
Hybrid Solutions PRO To The Max Wax™	14 oz	Plastic Bottle	60TZ56

1MPU7

4NPV3

Metal Polish and Cleaners

Detailing products help restore a bright shine to metal wheels and trim.

Description	Size	Item No.
3M		
MAG and Aluminum Polish	10 oz	2CTL4
Chrome and Metal Polish	10 oz	2CTL3
Blue Magic		
Quick Shine Metal Polish	10 oz	36G632
Pure Magic Liquid Metal Polish	8 oz	1MPU5
Metal Polish Creme	19.38 oz.19.25 oz	1MPU7
Flitz		
Aluminum Preclean	16 oz.	5GVA2
Handstands		
Nevr-Dull® Wadding Polish	5 oz	4NPV3

1UER6

2CTN8

Paint Finish Restorers

Remove oxidation and restore the shine to dulled surfaces with these detailing products.

Item	Container Size	Container Type	Item No.
Turtle Wax			
Heavy Duty Rubbing Compound	10.5 oz	Tub	1UER5
Scratch Remover	10.5 oz	Tub	1UER6
3M			
Abrasive Rubbing Compound	16 oz	Plastic Bottle	2CTN8
Abrasive Polish	32 oz	Plastic Bottle	2CTN4
Abrasive Cleaner Clay Bar	16 oz	Plastic Jar	2CTN7
Abrasive Rubbing Compound	32 oz	Plastic Bottle	45JU27
Rubbing Compound	1 gal	Bottle	6KHC0

Sponges, Mitt, Cloths, and Pads

Microfiber Cloths—2ZPF1 has an absorbent waffle weave to reduce the frequency of wringing.

Microfiber Pads—2ZPE2 has an elastic band to hold pad to hand securely. 2ZPE7 and 2ZPE8 are for polishes.

Sponges—Lift and hold dust, dirt, and grease. Use 2ZPE6 to polish surfaces.

Mitt—Features microfiber on 1 side for cleaning and honeycomb mesh on the other for scrubbing.

2ZPF1

2ZPE8

32UV15

400C56

2ZPE3

2ZPE1

Item	Size	Color	Item No.	Pkg. Qty.
Tough Guy				
Microfiber Cloth	18 in x 24 in	Brown	**2ZPE9**	1
Microfiber Cloth	24 in x 24 in	Brown	**2ZPF1**	1
Microfiber Cloth	16 in x 16 in	Blue	**32UV15**	24
Microfiber Cloth	16 in x 16 in	Blue	**32UV16**	12
Microfiber Cloth	12 in x 16 in	Green, Red, Yellow, Gray	**400C55**	12
Microfiber Pads	9"	White	**2ZPE2**	1
Microfiber Pads	4"	White	**2ZPE7**	2
Microfiber Pads	4"	Blue, White	**2ZPE8**	2
Microfiber Towel	14 in x 14 in	Blue, Gray	**400C56**	8
Scrubber Sponge	9 x 4½"	Blue	**2ZPE3**	1
Scrubbing Mitt	11½ x 8"	Blue	**2ZPE1**	1
Sponge	8¼ x 5"	Chamois	**2ZPE6**	1

39R422

39R425

39R424

Item	Size	Color	Item No.	Pkg. Qty.
Carrand				
Cloth Rag	11 in x 17 in	White	**39R420**	3
Microfiber Cloth	12 in x 16 in	Gray, Green, Yellow	**39R422**	3
Microfiber Cloth	12 in x 16 in	Green, Red, Yellow, Gray	**39R425**	12
Microfiber Cloth	22 in x 36 in	Yellow	**39R426**	1
Microfiber Cloth	16 in x 16 in	Yellow, Gray	**39R424**	1

Dusters and Dust Pan with Brush

Lint-free, machine-washable dusters will not scratch clear coat or paint. 2ZPC5 brush snaps into dust pan for storage.

2ZPD8

2ZPC5

Description	Item No.
Microfiber Duster Set, (1) 5¾"L Brush and (1) 14¼"L Brush	**2ZPD8**
Microfiber Duster, 14¼"L Brush with Folding Handle and Carrying Pouch	**2ZPD9**
Dust Pan with Hand-Held Brush, Brush 5"W x 8"L and Pan 6"W x 7½"L	**2ZPC5**

Polishing Pads and Detailing Cloths

Perfect-It Polishing Pads—Single-sided high-performance pads attach to Hookit Back Up Pads 2EXY4 and 2EXY5 (sold separately) to fit all ⅝"-shaft slow-speed polishers.

Perfect-It Detailing Cloths—2-ply polyester/nylon microfiber won't scratch or streak paint, chrome, glass, dashboards, or other vehicle surfaces.

Wool Compound Pads—Use these double-sided pads with adapter 2EXY3 (sold separately) to refine paint surface defects.

Hookit Back-Up Pads and Adapter—Backup pad allows quick attachment, accurate centering, and easy removal of single-sided compounding or polishing pads.

2EXY6

2EXZ3

Description	Item No.
Perfect-It™ Polishing Pads	
100% Wool Compound Pad, 9" dia.	**2EXY6**
Foam Polishing, 8" dia., Pkg. of 6	**2AZC9**
Ultrafine Foam Polishing, 8" dia.	**2EXY9**
Perfect-It™ Detailing Cloths	
14"L x 12"W	**2EXZ3**
14"L x 12"W, Pkg. of 6	**2EXZ1**
Wool Compound Pads	
100% Wool Compound Pad, 9" dia.	**2EXY2**
Blended Wool Compound Pad, 9" dia.	**2EXY8**
Hookit™ Back-Up Pads and Adapter	
Hookit™ Backup Pad, 7" dia.	**2EXY4**
Perfect-It™ Hookit™ Backup Pad, 7" dia.	**2EXY5**
Screw-On Pad Adapter, ⅝"	**2EXY3**

Description	Item No.	Pkg. Qty.
Finishing Sanding Block Kit and Refill Sheets		
Sanding Block Kit with (1) Each of 80, 120, and 220 Grit Sheets, 3 in x 5 in	**43Y077**	1
Film Backed Refill Sheets For Sanding Block		
Medium Grade, 80 Grit, 3 in x 11 in	**43Y078**	15
Fine Grade, 120 Grit, 3 in x 11 in	**43Y079**	15
Very Fine Grade, 180 Grit, 3 in x 11 in	**43Y080**	15
Gold Sanding Discs		
Coarse Grade, 40 Grit, 6 in	**42X680**	25
Medium Grade, 80 Grit, 6 in	**42X681**	50
Medium Grade, 80 Grit, 6 in	**49XW78**	100
Fine Grade, 120 Grit, 6 in	**42X682**	50
Very Fine Grade, 220 Grit, 6 in	**42X685**	50
Super Fine Grade, 400 Grit, 6 in	**42X687**	50
Gold Sanding Rolls		
Coarse Grade, 80 Grit, 2 ¾ in x 20 yd	**42X695**	1
Medium Grade, 120 Grit, 2 ¾ in x 20 yd	**42X696**	1
Fine Grade, 220 Grit, 2 ¾ in x 20 yd	**42X699**	1
Very Fine Grade, 320 Grit, 2 ¾ in x 20 yd	**42X701**	1
G2 Abrasive Disc		
Ultra Fine Grade, 1000 Grit, 6 in	**42X645**	50
G2 Waterproof Sanding Sheets		
Fine Grade, 220 Grit, 9 in x 11 in	**42X649**	25
Super Fine Grade, 400 Grit, 9 in x 11 in	**42X651**	25
Super Fine Grade, 600 Grit, 9 in x 11 in	**42X652**	25
Ultra Fine Grade, 800 Grit, 5 ½ in x 9 in	**42X653**	25
Ultra Fine Grade, 1000 Grit, 5 ½ in x 9 in	**42X654**	25
Ultra Fine Grade, 1500 Grit, 5 ½ in x 9 in	**42X656**	25
Ultra Fine Grade, 2000 Grit, 5 ½ in x 9 in	**42X657**	25
Ultra Fine Grade, 2500 Grit, 5 ½ in x 9 in	**42X658**	25
Scuffing Pads		
Very Fine Grade, 360 Grit, 6 in x 9 in	**42X662**	10

43Y077

42X695

Autobody Sanding Block Kit, Discs, Rolls, and Pads

Finishing Block Sanding Kit and Refills—The ergonomic design provides maximum control and comfort. The steel reinforcement plate helps improve finishing results, with reduced sanding effort.

Gold Sanding Discs and Rolls—Multipurpose grain is ideal for all automotive finishes as well as wood, metal, fiberglass, and painted surfaces. The "anticlog" coating prevents loading to increase cutting performance.

- Pressure-sensitive adhesive paper backing

G2 Abrasive Disc—Designed for automotive and marine finishes, wood, metal, fiberglass, and painted surfaces. The durable backing resists tearing and provides ultimate durability. Anticlog coating prevents "loading" of abrasive surface. Feature "Quick-Change" hook-and-loop holding system.

- Film backing

G2 Waterproof Sanding Sheets—Made with a specially treated, waterproof backing for increased "wet" performance and flexibility.

- Film backing

Scuffing Pads—Nonwoven synthetic flexible pads are ideal for scuff sanding and finishing of automotive and marine finishes, wood, metal, and fiberglass.

6CGP9

2GXZ4

40JM25

Automotive Gasket Sealants

Item	Temp. Range	Color	Size	Brand	Item No.	Pkg. Qty.
Valve Covers, Oil and Transmission Pans, Intake Manifolds, Water Pumps, Timing Chain Covers, Thermostat Housings						
Permanent Metallic™ Copper-Coat(R) Gasket Compound	-80° to 400°F	Copper	9 oz	K&W	**5EVZ4**	1
RTV Silicone Gasket Maker	Resistant Up To 625°F	Black	3 oz	Dynatex	**6CGP9**	6
Ultra Black® RTV Silicone Sealant	-65 to 400°F	Black	3.35 oz	Permatex	**2GXZ4**	1
Ultra Grey® RTV Silicone Sealant	-65 to 500°F	Gray	3.5 oz	Permatex	**2GXZ5**	1
Used for Pump Housings, Machine Tools, Compressors, Gearboxes, Transmission Pans, Valve Covers, and Oil Pans						
Ultra Copper® RTV Silicone Sealant	-65 to 700°F	Copper	3 oz	Permatex	**3DPT6**	1
Used for Flexible Flanges						
RTV Silicone Sealant	-65 to 500°F	Blue	3 oz	Permatex	**2GXY4**	1
Used as Form-In-Place Gasket on Rigid Flanged Connections Such as Gearbox and Engine Castings.						
Anaerobic Gasket Maker	-65 to 300°F	Red	50 mL	Permatex	**2GXX3**	1
Doors and Seams, Insulate Electrical Connections, Seal Windows						
RTV Silicone Sealant	-60° to 450°F	Clear	8 oz	Imperial Supplies	**40JM27**	6
Axel Covers, Oil Pans, Timing Chain Covers, Valve Covers, Water Pumps						
RTV Silicone Sealant	-75° to 550°F	Red	8 oz	Imperial Supplies	**40JM26**	6
	-75° to 500°F	Black	8 oz	Imperial Supplies	**40JM25**	6
	-60° to 450°F	Blue	8 oz	Imperial Supplies	**40JM28**	6

2KUU4

2KVB4

2CTF2

2CTE8

2KVC3

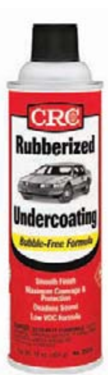
1MPY2

1MPV8

5JKN9

Automotive Maintenance and Repair Supplies

Description	Color	Size	Item No.	Pkg. Qty.
3M				
Automix™ Self Leveling Seam Sealer	—	—	**2KUU3**	1
Automix™ SMC/Fiberglass Adhesive-90	Black	400 mL	**2KVD7**	1
Dry Guide Coat Cartridge/Kit	Dark Gray	50 g	**2CTR9**	1
EZ Sand Flexible Parts Repair	Gray	200 mL	**2KVB9**	1
Flexiclear™ Body Seam Sealer	—	—	**2KUU7**	1
General Trim Adhesive	Clear	16.25 oz.	**2KVC8**	1
Headlight Lens Restoration Kit	—	—	**3NLR9**	1
Heavy Bodied Seam Sealer	—	—	**2KUU4**	1
Panel Bonding Adhesive	Black	200 mL	**2KVB4**	1
Plastic and Emblem Adhesive	Clear	5 oz	**5LTL2**	6
Rear View Mirror Adhesive	—	0.02 oz	**2CTF2**	1
Spray Trim Adhesive	Clear	24 oz.	**2KVC7**	1
Super Fast Semi-Rigid Adhesive	Opaque	50 cc	**2KVB5**	1
Super Silicone Sealant	Clear	3 oz	**2CTE8**	1
	Black	3 oz	**2CTE9**	1
	Black	10.3 oz	**2JFG6**	12
Super Trim Adhesive	Yellow	18 oz.	**2KVC9**	1
Super Weatherstrip and Gasket Adhesive	Yellow	5 oz	**2KVC3**	1
	Black	5 oz	**2KVC4**	1
Universal Epoxy Adhesive	Clear	1.6 oz	**2KVD1**	1
Blue Magic				
Brush-On Electrical Tape	Red	4 oz	**1MPY2**	1
	White	4 oz	**1MPY3**	1
Brush-On Electrical Tape, Black	Black	4 oz	**1MPX8**	1
Headlight Lens Restorer	White	8 oz	**1MPV4**	1
High Temperature Metal Repair	Dark Gray	3 oz	**1MPX3**	1
	Dark Gray	24 oz	**1MPX4**	1
QuikSteel™ Plastic Repair Epoxy Putty	White	2 oz	**2TRJ3**	1
QuikSteel™ Steel Reinforced Epoxy Putty	Gray	2 oz	**2TRJ2**	1
Tank Repair Kit	Dark Gray	2 oz	**1MPV8**	1
	White	2 oz	**1MPV9**	1
Grote				
Ultra-Seal Corrosion Preventive Sealant	Yellowish Brown	—	**2VRA5**	1
Imperial Supplies				
Pipe Sealant with PTFE	White	35 mL	**40JM41**	4
Steelman				
Security Seal	Blue	1 oz	**20C924**	10
Turtle Wax				
Headlight Lens Restoration Kit	White	—	**5JKN9**	1


13P448

4YLD3

Coatings and Undercoatings

- Color Black

Item	Applic. Method	Container Size	Item No.
Blue Magic			
Rubberized Undercoating	Spray	15 oz	**1MPU9**
CRC			
Rubberized Undercoating	Spray	20 oz	**13P448**
Rust-Oleum			
Truck Bed Coating	Spray	15 oz	**4YLD1**
Truck Bed Coating	Roller or Spray	1 qt	**4YLD2**
Truck Bed Coating	Roller	1 gal	**4YLD3**
Truck Bed Coating Applicator Kit	—	Kit	**4YLD4**
Truck Bed Coating	Spray	24 oz	**55AA32**
Truck Bed Coating	Spray	15 oz	**35MW34**
Rubberized Undercoating	Spray	15 oz	**4YLC9**
Sprayway			
Rubberized Undercoating	Spray	20 oz	**45C021**
Titeseal			
Auto Body Undercoating	Spray	16 oz	**54YE12**
Rubberized Undercoating	Spray	16 oz	**54YE13**
Zep			
Rubberized Undercoating	Aerosol Spray	20 oz	**451D46**

Automotive Paints and Coatings

RUST-OLEUM BRANDS

Color	Finish	Container Size	Item No.
Auto Body Paint			
Black	Gloss	12 oz	**1PTE4**
Jet Black	Satin	1 qt	**6PEP8**
Clear Coat	Gloss	1 qt	**6PER4**
Crystal Clear	Gloss	12 oz	**6KN84**
Auto Body Paint/Primer			
Black	Flat	12 oz	**440A55**
Clear	Gloss	12 oz	**440A53**
Black	Semi-Gloss	12 oz	**440A54**
Auto Body Primer			
Gray	Flat	1 qt	**6PER2**
Gray	Flat	11 oz	**4YLA9**
Red	Flat	11 oz	**4YLC6**
Dark Gray	Flat	12 oz	**1PTF4**
Black	Flat	12 oz	**4YLC2**
Red	Flat	12 oz	**4YLC5**
Clear	—	11 oz	**6PEU5**
Auto Body Rusty Metal Primer			
Light Gray	Flat	12 oz	**4YLC4**
Rusty Metal Brown	Flat	12 oz	**1PTF5**
Caliper Paint			
Black	Gloss	12 oz	**6PEU0**
Red	Gloss	12 oz	**6PET9**
Engine Enamel Spray Paint			
Flat Aluminum	—	12 oz	**4YLA1**
Flat Red	—	12 oz	**4YLA2**
Aluminum	—	12 oz	**4YKY7**
Cast Coat Aluminum	—	12 oz	**4YKZ4**
Low Gloss Black	—	12 oz	**4YKY4**
Semi-Gloss Black	—	12 oz	**4YKY3**
Gloss Black	—	12 oz	**4YKY2**
Chevy Orange	—	12 oz	**4YKY5**
Ford Blue	—	12 oz	**4YKY6**
Ford Red	—	12 oz	**4YKZ2**
Clear	—	11 oz	**4YKY8**
Grabber Green	—	16 oz	**4YKZ1**
Flat Black	—	12 oz	**4YKZ9**
Engine Primer			
Gray	Flat	12 oz	**4YLC7**
Fabric & Vinyl Paint			
Black	Flat	11 oz	**4YLD6**
Charcoal Gray	Flat	11 oz	**4YLD9**
Gray	Flat	11 oz	**4YLD7**
Sand	Flat	11 oz	**4YLD8**
Black	Gloss	11 oz	**4YLD5**
High Heat Primer			
Gray	Flat	12 oz	**4YLC8**
Lens Tint			
Translucent Black	Gloss	10 oz	**6PEU4**
Rust Reformer			
Black	—	10.25 oz	**6PEP3**
Self Etching Primer			
Dark Green	Flat	12 oz	**4YLC3**
Trim & Bumper			
Black	Gloss	12 oz	**6PET0**
Black	Matte	11 oz	**6PEV1**
Wax and Tar Remover			
Clear	—	13.5 oz	**4YLF4**
Clear	—	1 qt	**4YLE5**
Wheel Paint			
Black	Flat	11 oz	**4YLA8**
Clear	Gloss	11 oz	**4YLA6**
Graphite	Metallic	11 oz	**4YLA7**
Steel	Metallic	11 oz	**4YLA5**

1PTE4

6KN84

6PEV1

4YLA8

3M

Bondo Auto Body Repair

Body Filler and Repair Kit—Nonshrinking formula repairs dents, patches rust holes and leaks, and fills in chips. Spreads easily and sands in just 20 min. 3RAR1 includes body filler, red cream hardener, self-adhesive metal body patch, and spreader.

Fiberglass Resin with Hardener—Use alone or with fiberglass tape, cloth, or mat to repair fiberglass boats, snowmobiles, jet skis, bathtubs, and showers.

Bondo-Glass—Repairs dime-size or smaller rusted-out metal holes and shattered fiberglass body parts.

Bondo-Hair Long-Strand Fiberglass-Reinforced Filler—Recommended for use on up to 1" rust holes, shattered fiberglass and dents where extra strength is required. Ideal for vehicle restoration.

Fiberglass Mat and Fiberglass Cloth—Provide extra reinforcement for large repairs. Can be used with fiberglass resin or two-part adhesive.

Dynatron Dynalite Body Filler and Creme Hardeners—3RAR3 is a lightweight, nonseparating body filler that has good featheredge capabilities. 6KHA9 and 2CTR1 are creme hardener agents that mix easily and quickly and are designed to be used with all 3M Body Repair Fillers.

Description	Color	Size	Item No.
Bondo Body Filler With Hardener	Light Gray	1 qt	**3RAP8**
	Light Gray	1 gal	**3RAP9**
Bondo Auto Body Filler Kit	Light Gray	1 qt	**3RAR1**
Fiberglass Resin	Light Straw	1 qt	**3RAR4**
	Light Straw	1 gal	**3RAR5**
Bondo-Glass Fiberglass Reinforced Filler	Green	1 qt	**3RAT1**
Bondo-Hair Fiberglass Reinforced Filler	Green	1 qt	**3RAT2**
Bondo Fiberglass Cloth	White	8 sq ft	**3RAR7**
Bondo Fiberglass Mat	White	8 sq ft	**3RAR8**
Dynatron Dynalite Filler	Gray	1 gal	**3RAR3**
Creme Hardener	Red	2.75 oz	**6KHA9**
Blue Creme Hardener	Blue	2 ¾ oz	**2CTR1**

3RAP8

3RAR4

CRC LOCTITE RUST-OLEUM BRANDS Zep PROFESSIONAL

Rust Converter

Chemically changes rust and corrosion into a protective, primer-like coating that is ready for painting without further priming.

Item	Applic. Method	Container Size	Item No.
CRC			
Rust Converter	Bath or Brush	32 oz	**19MY72**
Rust Converter	Bath or Brush	1 gal	**19MY73**
Loctite			
Rust Treatment	Brush Or Commercial Sprayer	1 qt	**3EPP8**
Rust Treatment	Brush Or Commercial Sprayer	1 gal	**3EPP9**
Rust Treatment	Brush Or Commercial Sprayer	5 gal	**3EPR1**
Rust-Oleum			
Rust Remover	Bath or Brush	1 gal	**40GM43**
Zep			
Rust Converter	Brush	1 gal	**4UZF5**
Corrosion Inhibitor	—	5 gal	**449W20**

19MY72

3EPP8

40GM43

4UZF5

5KGH5

48UV15

4HA44

48UV20

3R738

23NY36

OTC PROTO WESTWARD

Bearing Pullers and Separator Tools

Remove gears and bearings too close to another surface for a puller jaw to grip, or where the pulled out portion must be protected.

Item	Includes	Mfr. Model	Item No.
OTC			
Bar Type Puller/ Bearing Separator Set	Bearing Splitter With 4 in Capacity, 2 Sets Of Hex Push Puller Legs,8 in Bar Type Puller Head Mated With a Custom Thread Forcing Screw	4517	**5KGH5**
Bearing splitter	(4) Bearing Splitters, Pulley Pulling Attachment	1183	**48UV15**
Multipurpose Bearing and Pulley	2 Forcing Screws, 2 Cross-Bar Yokes, 2 Clamp Bolts, 3 Pairs of Puller Jaws,1 Pair Jaw Pins, 3 Pairs of Cap Bolts, Blow-Molded Case	4534	**4HA44**
Puller Set	(2) Bearing Splitters, (4) Sets of Hex Push Puller Legs, Bar Type Puller Head, Puller Crossbar, Plastic Storage Case	4518	**48UV20**
Puller Set	(2) Sets of Forged Jaws, (2) Forcing Screws	4532	**48UV22**
Proto			
Bearing Separator Set	Gear and Bearing Separators 1¹³⁄₁₆, 2¹³⁄₃₂, 4⅜,and 6 in, Threaded Rod, Molded Plastic Case	J4390B	**3R738**
Press-N-Pull Set	Forcing Screw Tip, ¾-12 in Female x ⅝ in Male Acme Adapter, ¾-12 in Acme Female x ⅝ in -18NF Male Adapter, (3) ⁷⁄₁₆-14 in x ¾ in Lock Screws, ¾-12 in Acme Coupling Nut, ¾-12 in Acme x 12 in Forcing Screw, 2- and 3-Way Crossarms, ¾-12 in Acme Forcing Nut, Thrust Washer, (3) ⅝-18 in Female x ½-20 in Female Adapters, (3) ⅝-18 in Female x ½-20 in Male Adapters, (3) ⅝-18 in Female x ¾-16 in Female Adapters, (3) ⅝-18 in Female x ¾-16 in Male Adapters, (3) ⅝-18 in Female x ⅞-14 in Female Adapters, (3) ⅝-18 in Female x ⅞-14 in Male Adapters, (3) Slide Blocks, (3) Medium Legs, (3) Short Legs, Bearing Separator, Molded Plastic Case	J4293B	**3R733**
Wide Puller Set	Forcing Screw (1Q590), Detachable Tip, 2- and 3-Way Crossarms, Adjustable Jaw Block Assembly, Jaw Spring Clip, Bearing Separator 6 in Capacity, Cap Screw 2¹⁵⁄₁₆ in, Long Narrow Jaw 7³⁄₁₆ in, Molded Plastic Case	J4292B	**3R732**
Westward			
Bearing Puller Set	Forcing Screws, Cross Block Assembly, (2) Puller Jaws, Puller Jaws Retaining Yoke,(4) Step Plates	23NY37	**23NY37**
Bearing Splitter Set	(2) Bearing Splitters, (4) Sets of Hex Push-Puller Legs, and (1) Bar-Type Puller Head with Forcing Screw, Carrying Case	23NY36	**23NY36**
Bearing Splitter Set	Forcing Screws, Cross Block Assembly, (4) Puller Jaws, and Puller Jaws Retaining Yoke	23NY38	**23NY38**

WESTWARD

Bearing Positioning Tool Set

Use to easily position a bearing in the inner hole of the axle. 8-pc. kit includes handle, 6 heavy-duty bearing drivers, and carrying case.

Size	Item No.
1.555, 2.322, 2.834, 1.752, 2.48, 2.992, 1.968, 2.559 and 3.189	**32J061**

23M596

WESTWARD OTC PROTO

Bearing Splitters

Ideal for use in tight spaces.

Max. Spread (in.)	Min. Spread (in.)	Mfr. Model	Item No.
Westward			
¹⁵⁄₁₆ in	¼ in	23NY32	**23NY32**
2 in	1 ³⁄₁₆ in	23M596	**23M596**
3 in	2 in	23M603	**23M603**
4 ½ in	3 in	23M597	**23M597**
6 in	4 ¼ in	23M598	**23M598**
9 in	½ in	23NY33	**23NY33**
OTC			
¹⁵⁄₁₆ in	¼ in	1121	**48UU93**
2 in	⅛ in	1122	**48UU94**
4 ⅝ in	½ in	1123	**48UU95**
9 in	½ in	1130	**48UU98**
13 ⅜ in	¾ in	1127	**3GZK8**
Proto			
6 in	½ in	J4333A	**1Q638**

WESTWARD PROTO POSI LOCK OTC

Manual Jaw Pullers

These pullers enable you to remove and install parts for fast, effective repairs. The pullers are forged from quality steel, heat treated, and subjected to rigorous tests which exceed their rated capacity.

Nonreversible jaws have deeper jaws for fan blades and blower wheels.

Cap.	No. of Jaws	Jaw Reach	Jaw Spread	Screw Length	Locking	Jaw Style	Mfr. Model	Item No.
Westward								
1 ton	2	2 ⅛ in	3 ¼ in	3 ⅞ in	Yes	Nonreversible	23MD16	**23MD16**
	3	2 ⅛ in	3 ¼ in	3 ⅞ in	Yes	Nonreversible	23MD17	**23MD17**
2 to 3 tons	2 or 3	2 ¾ in	3 ⅞ in	4 15/16 in	No	Reversible	4YT14	**4YT14**
2 ton	2	3 ¼ in	4 in	4 ⅞ in	Yes	Reversible	23MD19	**23MD19**
	2 or 3	3 ¼ in	4 ¾ in	4 ⅞ in	Yes	Reversible	23MD20	**23MD20**
3 ton	2 or 3	2 ⅞ in	4 ½ in 5 in	—	Yes	Reversible	23MD18	**23MD18**
4 to 6 tons	2 or 3	4 9/16 in	5 ½ in	6 5/16 in	No	Reversible	4YT15	**4YT15**
5 ton	2	3 ¼ in	6 in	6 15/16 in	Yes	Reversible	23MD21	**23MD21**
	2	5 ½ in	6 in	6 15/16 in	Yes	Reversible	23MD26	**23MD26**
	2 or 3	3 ¼ in	7 in	6 15/16 in	No	Reversible	1MZP2	**1MZP2**
	2 or 3	3 ¼ in	7 in	6 15/16 in	Yes	Reversible	23MD22	**23MD22**
	2 or 3	5 ½ in	4 ½ in	6 15/16 in	Yes	Reversible	23MD25	**23MD25**
	2 or 3	5 ½ in	7 in	6 15/16 in	Yes	Reversible	23MD27	**23MD27**
6 to 9 tons	2 or 3	6 in	8 ½ in	—	No	Reversible	4YT17	**4YT17**
7 ton	2	5 in	9 in	9 in	Yes	Reversible	23MD23	**23MD23**
	2	8 ¾ in	9 ½ in	9 in	Yes	Nonreversible	23MD28	**23MD28**
	2 or 3	5 in	10 ½ in	9 in	No	Reversible	1MZP3	**1MZP3**
	2 or 3	5 in	10 ½ in	9 in	Yes	Reversible	23MD24	**23MD24**
	2 or 3	8 ¾ in	11 in	9 in	Yes	Nonreversible	23MD29	**23MD29**
8 or 10 tons	2 or 3	8 in	12 ½ in	—	No	Reversible	4YT16	**4YT16**
13 ton	2	11 in	12 in	12 in	Yes	Nonreversible	23MD30	**23MD30**
	2	15 ¼ in	15 ½ in	12 in	Yes	Nonreversible	23MD34	**23MD34**
	2 or 3	11 in	12 in	12 in	Yes	Nonreversible	23MD31	**23MD31**
	2 or 3	15 ¼ in	17 in	12 in	Yes	Nonreversible	23MD35	**23MD35**
Proto								
2 ton	3	3 ½ in	4 in	4 ¾ in	No	Reversible	J4034	**3R657**
5 ton	2	5 ½ in	7 in	7 in	No	Reversible	J4035	**3R658**
	3	5 ½ in	7 in	7 in	No	Reversible	J4036	**3R659**
6 ton	2 or 3	4 ½ in	8 in	—	Yes	Reversible	J4217	**3R699**
7 ton	2	9 in	10 in	9 in	No	Reversible	J4037	**3R660**
	3	9 in	11 in	9 in	No	Reversible	J4038	**3R661**
10 ton	3	5 in	12 in	—	Yes	Reversible	J4233E	**3R704**
Posi Lock								
1 ton	3	2 ¼ in	3 ¼ in	5 ½ in	Yes	Nonreversible	102	**5LD35**
2 ton	2	4 in	½ in to 5 in	10 ¼ in	Yes	Nonreversible	204	**4GB26**
	3	3 in	4 ½ in	7 in	Yes	Nonreversible	103	**5LD36**
5 ton	3	4 in	5 in	9 11/16 in	Yes	Nonreversible	104	**5U719**
6 ton	2	6 in	½ in to 7 in	12 ⅞ in	Yes	Nonreversible	206	**4GB27**
10 ton	3	6 in	7 in	12 ¾ in	Yes	Nonreversible	106	**1AC04**
12 ton	2	8 in	¾ in to 12 in	16 ⅝ in	Yes	Nonreversible	208	**4GB28**
14 ton	2	10 in	15 in	19 ¼ in	Yes	Nonreversible	210	**1AC03**
17 ton	3	8 in	12 in	16 ¼ in	Yes	Nonreversible	108	**5LD37**
20 ton	3	10 in	15 in	19 ¼ in	Yes	Nonreversible	110	**1AC05**
30 ton	3	12 in	18 in	26 in	Yes	Nonreversible	113	**5LD38**
40 ton	3	14 in	3 in to 25 in	32 in	Yes	Nonreversible	116	**4GB25**
OTC								
2 ton	2 or 3	3 ¼ in	4 ¾ in	⅜ in	No	Reversible	1023	**48UU72**
5 ton	2 or 3	5 ½ in	7 in	9/16 in	No	Reversible	1027	**48UU76**
7 ton	2 or 3	5 in	10 ½ in	11/16 in	No	Nonreversible	1037	**48UU79**
13 ton	2 or 3	11 in	12 in	13/16 in	No	Nonreversible	1041	**48UU83**
	2 or 3	15 ¼ in	17 in	13/16 in	No	Nonreversible	1042	**48UU84**

OTC

Shaft Protector Set

Protects shaft centers from distortion when extreme pressures are applied. Use with fan blade, gear, and bearing pullers.

No. of Pieces	Mfr. Model	Item No.
6	8056	**5U731**

POSI LOCK PULLER, INC.

Mini Manual Puller Set

- 1- to 2-ton capacity

Designed for small removal challenges. Ideal for lawn and garden equipment, snowmobiles and motorcycles, air tools, and more. Includes storage kit.

No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Mfr. Model	Item No.
2 or 3	3	¼ to 4½	Locking and self Aligning	Non-reversible	PMW-1	**4GB36**

WESTWARD

Reversible 2- or 3-Jaw Puller Set

Versatile pullers feature a narrow face on one end and a wide face on the other to create a 2-in-1 tool that saves you time and money. Jaws can easily be reversed by sliding the jaw to the end of the crossblock and turning them around 180°.

Cap.	No. of Jaws	Jaw Reach	Jaw Spread	Jaw Style	Item No.
5 ton	2 or 3	5 ½ in (139.7mm)	8 in	Reversible	**45FF29**

WESTWARD

4-In-1 Jaw Puller Kit

- 7-ton capacity

Quick-and-easy assembly makes a 2-jaw or 3-jaw puller with the reach, spread, and power you need for all applications. It easily handles larger gears, bearings pulleys, wheels, sprockets, and other press-fit parts.

No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Item No.
2 or 3	8 ¾	11	Manual	Double	**23MD43**

WESTWARD

Lock-On, Jaw-Type Puller Set

- 5-ton capacity

Set contains versatile internal and external pullers that can be created to easily remove harmonic balancers, gears, bearing, timing gears, and other difficult parts. Includes sturdy storage case.

No. of Jaws	Jaw Reach (in.)	Jaw Spread (in.)	Type	Jaw Style	Item No.
2 or 3	4, 6 ½	12, 8	Lock On Jaw	Straight	**23MD47**

3R707

3R693

Proto-Ease 2-Way Straight Jaw Puller Sets

Comes with a steel storage box. 3R693 is specially shaped for minimum clearance pulling situations. 3R707 is used with a separator to remove a truck countershaft's rear bearing.

Cap.	Jaw Reach	Jaw Spread	Mfr. Model	Item No.
6 ton	Dual Jaw 2 in And 4 in, Narrow Jaw 4 in	6	J4212SJB	**3R693**
10 ton	2 15/16 in, 4 11/16 in, 7 1/8 in	10 in	J4234B	**3R707**

WESTWARD

Blind Hole Bearing Puller Set

Ideal for jobs that require an internal pull, such as pilot bearings. Includes 4 collets to fit a wide range of applications. Also includes a plastic storage case.

Includes	Item No.
10-pc Attachment, 1-pc Slide Hammer, 3-pc. Pin, 1-pc Puller	**23KX50**

POSI LOCK PULLER, INC.

Hub Puller Adapter Set

Helps simplify the removal of many industrial and automotive fans and blower wheels by providing a solid connection between the puller and fan hub. Includes carrying case.

Includes	Mfr. Model	Item No.
3-Jaw 4 in 5-Ton Puller, Small and Large Collar Adapters,Tip Reducer/Extender, Carrying Case	HP-2	**5LD39**

PROTO

Standard Puller Set

- 6-ton capacity

Contains enough components to make over 20 of the most often used pullers including: internal, external, slide hammer, rear axle, and harmonic balancer. Includes molded plastic case.

Includes	Mfr. Model	Item No.
T-Handle Slide Rod, Short Slide Rod, 5-lb., and 2½ lb. Slide Hammers, 2- and 3-Jaw Yokes, 2- and 3-Way Slotted Crossarms, 4 and 6" Reversible Jaws, 2" Reach Inside Jaw, Gear and Bearing Splitter, and more.	J4290B	**3R730**

GEARWRENCH®

Steering Wheel Puller Kit

Engineered to remove steering wheels from most domestic and import cars with or without telescoping tilt columns.

Includes	Mfr. Model	Item No.
Puller Yoke and Screw Extension Bushing, Lock Plate Removal Tool, 2-pc. Puller Leg Package, Pivot Pin, Lock Plate Depressor Frame, Lock Plate Remover Collars and Nut Washer, Screw Package	41620D	**2HLF6**

POSI LOCK PULLER, INC.

Hydraulic Puller

- 12-ton capacity

Self-contained system features nonreversible jaws and interchangeable ram points for multiple shaft sizes and configurations.

Includes	Mfr. Model	Item No.
Self Contained Manual Hydraulic Puller With 2 Pushing Adaptors	PHS-108	**1TMR3**

Hydraulic Puller Set

OTC

- 17½-ton capacity

This set is designed to remove or install interference fit parts like gears, couplings, bearings, wheels, pulleys, axles, shafts, brake drums, and many other press fit components.

Includes	Mfr. Model	Item No.
Hydraulic Hand Pump, Threaded Insert, Tee Adapter, Pressure Gauge, 6 Foot Hydraulic Hose,Hose Half Coupler With Dust Cover, Hydraulic Push Puller With 18 in Legs, And 3 Jaw Hydraulic Puller	1688	**3Z962**

OTC

King Pin Pusher

With this pin remover, hydraulic force and precision tooling replaces torch and hammer methods.

Description	Mfr. Model	Item No.
King Pin Pusher Set		
Heavy Duty Kingpin and Brake Anchor Pin Pusher, 30 tons	4240A	**1EAX3**
Pin Remover		
Hollow Center Hydraulic Ram with Adapter, 30 tons	4121A	**407J98**
Hollow Center Hydraulic Ram, 50 tons	4122A	**407J99**
Hollow Center Hydraulic Ram, 60 tons	4140A	**407K01**

WESTWARD

Multipurpose Puller Sets

These professional quality sets give you a wide range of versatility.

Includes	Item No.
⅛ in to 4⅝ in Bearing Separators, 5-Ton Gear and Pulley Puller, Steering Wheel Puller, 5-Ton Flange Type Puller, 2⅛ in Pitman Arm Puller, 5-and 7-Ton Jaw Pullers, 6⅝ in and 10⅜ in Jaws, 1½ in Flange Puller Plate, 2-Jaw Pilot Bearing Puller, 2-or 3-Jaw Reversible Slide Hammer, Lockable Metal Storage Cabinet (Wall or Surface Mount)	23MD44

OTC

Strong Box Multipurpose Puller Set

Enables you to pull gears, bearings, pulleys, wheels, and more on cars and light trucks. Come contained in a rugged, lockable metal storage cabinet you can either mount on a wall or stand on a work bench. Includes 8 pullers, 5 attachments, and extra puller jaws.

Includes	Item No.
(2)Jaw Puller, Gear, Pulley Puller, Flange Type Puller, Steering Wheel Puller, Pilot Bearing Puller, Slide Hammer Puller, Pitman Arm Puller, (2) Bearing Splitter, Rear Axle Pulling Adapter, (6) Long Jaw, Metal Storage Box	48UV17

48UV13

1MZP8

WESTWARD OTC

Slide Hammer Puller Sets

These sets are designed to pull hubs, bearings, gears, pulleys, body dents, and seals on most imported and domestic vehicles.

Includes	Brand	Item No.
5-lb Slide Hammer, 3-Way Cross Head, Cone, 2-Way Cross Block, Puller Hook Attachment, 3 Internal/External Jaws, Dent Puller, Grip Wrench, Adapter, Case	Westward	1MZP6
5-lb Slide Hammer, 2-Way/3-Way Cross Blocks, Cone, (3) Internal Jaws, (6) Internal/External Jaws, Rear Axle and Dent-Pulling Attachments, Puller Hook Attachment, Grip Wrench Adapter, Front Hub Puller Attachment, Case	Westward	23KX54
5 lb Slide Hammer Puller, 2 Way Head, 3 Way Head, Front Hub Puller, Spare Locknut, 2 tons Combination Jaw, Puller, 5 tons Jaw, Bar Type Gear, Pulley Puller, (2) Hex Head Cap Screws, Bearing Pulling Attachment	OTC	48UV13
Rear Axle-Pulling Attachment, 3-Way Cross Head, Cone, 2-Way Cross Block, Puller Hook Attachment, Puller Hook Attachment, Grip Wrench Adapter with Single Lead, Dent Puller Attachment, Front Hub Puller Assembly, Forcing Screw, Sleeve, Blow-Molded Case	Westward	1MZP8

WESTWARD

Slide Hammer Pullers

- 24"L

These pullers are for loosening tight assemblies with a heavy weight on a guide-bar to pull hubs, bearings, gears, pulleys, body dents, and seals on most imported and domestic vehicles.

Description	Item No.
2½ lb. Puller, Steel with Chrome Plating	23KX44
3 lb. Puller, 3 lb. Hammer, 2 jaw	23KX51
5 lb. Puller, Steel with Chrome Plating	23KX41
10 lb. Puller, Steel with Red Painting	23KX53

PROTO

Proto-Ease™ Master Puller Sets

- 10-ton capacity

Cover most maintenance operations using standard pullers. Contains components necessary to assemble all full-interchange system pullers except Proto® Press-N-Pull™ Pullers.

Description	Includes	Mfr. Model	Item No.
73-pc. Set with Steel Tool Box	Slotted Crossarm, Puller Tip, Forcing Screw, 2- and 3-Way Yokes, Reversible Adjusting Nut, Jaw Pivot Pin, 2½- and 5- Lb. Sliding Hammer, T- Handle and Short Slide Rod, Axle Flange, Blind Bearing Puller, Jaw Block Assembly, Bearing Separators (2⅜" and 6" Cap.), Step Plate Adapter Set, Step Plates, 2⅛, 2¼, 2⅜" Bore, Inside Jaw 2, and Reversible Jaw 4" and 6" Reach	J4235B	3R709
73-pc. Set without Tool Box		J4235A	3R708

29FX52

29FX43

WESTWARD

Push Pullers

For maintenance operations involving removal and installation of gears, bearings, shafts, pulleys, and press-fit parts.

Cap.	Reach	Spread (in.)	Item No.
Pulley Puller			
5 Tons	2"	1 ¾ to 4 ½	29FX50
7 Tons	—	2 ¼ to 7 ¾	29FX52
Push Puller			
10 Tons	8¼"	2 ⅝ to 7 ¾	29FX43
17½ Tons	11¼"	4 ⅜ to 12 ⅜	29FX45
30 Tons	10"	7 ¼ to 17	29FX44
Push Puller Set			
10 Tons	8¼"	Var.	29FX53

29FX53

29FX47

29FX48

WESTWARD

Flange Pullers

For use on harmonic balancers, steering wheels, crankshaft pulleys, and gear pulleys. Fits almost all automotive and light truck applications, domestic and imports, older and current models.

Bolt Circle Dia. (in.)	Screw Size	Item No.
1 to 2⅝, 1½ to 4⅝	⅝"-10	29FX47
1½ to 4⅝	⅝"-18 x 5½ in	29FX48

POSI LOCK PULLER, INC.

Transmission Bearing Pullers

Machined jaws clamp in snap-ring grooves as narrow as 0.07" to remove transmission bearings in minutes. Also effective for transfer cases on 4-wheel-drive vehicles, output shaft bearings, and other applications on many vehicles.

Cap.	Jaw Spread	Jaw Reach	Mfr. Model	Item No.
10 ton	½ in to 7 in	6 in	TJ-2	1TMR1
12 ton	¾ in to 12 in	8 in	TJ-1	1TMP9

1TMR1

2ZPK6

2TVK4

GEARWRENCH OTC WESTWARD

Suspension and Steering Tools

Description	Item No.
Gearwrench	
Grease and Oil Seal Puller	2ZPK6
Tie Rod Separator	2ZPH1
OTC	
Front Coil Spring Compressor	2TVK4
Strut Spring Compressor, Clamshell	2TVJ8
StrutTamer Elite stand	2TVJ9
Westward	
Ball Joint Separator	23M592
CV Joint Boot Clamp Plier	1MZN5
Grease and Oil Seal Puller	45FF24
Pitman Arm Separator	23M595
Separator Tool	23M594
Tie Rod Separator	23M593

23M592

1MZN5

32J054

2TVN4

1MZL8

22A802

2HLG3

2TVK7

WESTWARD OTC GEARWRENCH

Suspension and Steering Service Kits

Commonly needed tools to maintain automotive suspensions and front ends are conveniently gathered into specialty kits.

Includes	Mfr. Model	Brand	Item No.
Separator Set			
11¾ x 1⅛, 11¾ x 1⅝, 11⅝ x 1 7⁄16, 15¾ x 11⁄16, 15¾ x 5⁄16	32J054	Westward	32J054
Ball Joint Service Kit			
Receiving Tube (29503), Receiving Tube (29504), Receiving Tube (29505), Removing Adapter (305227), Removing Adapter (305228)	7249	OTC	2TVN4
Adapters, C-Frames	6559	OTC	22A802
Ball Joint Adapter Set			
Blow-Molded Case, Receiver Tubes, Removing and Installing Adapters For Most GM, Ford, and Dodge 2- and 4-Wheel Drive Vehicles (Through 1997)	1MZL8	Westward	1MZL8
Front End Service Set			
Pitman Arm Puller, Tie Rod End Puller, Tie Rod Puller, Universal Ball Joint Separator, Universal Tie Rod End Remover	41690	Gearwrench	2HLG3
2TVL1, 2TVL2, 2TVL3, 2TVK8, and 2TVK9	6295	OTC	2TVK7

LINCOLN WESTWARD

Magnetic Parts Trays

Corrosion-resistant stainless steel trays hold tools and small parts in place even when tipped. Rubber bases help prevent scuffing and scratching.

Description	Brand	Item No.
Round		
Dia. 6 in	Westward	**1EJZ2**
Square		
11 ½ in x 10 ¾ in	Westward	**1EJZ3**
Rectangle		
9 ½ in x 5 9⁄16 in	Lincoln	**45PG79**
14 ¼ in x 6 ¼ in	—	**10E753**

Variable-Pin Spanner Wrench

WESTWARD

- 1 ¼ in to 5 in Capacity
- ½" Square drive hole
- For more, see page 790

Variety of pin sizes for the removal and installation of camshaft pulleys and crankshaft pulleys.

Pin Dia.	Pin Length	Item No.
3.5 to 10mm	9⁄16 in, 11⁄16 in, ¾ in, 13⁄16 in, 1 ¾ in	**32J050**

WESTWARD

Ignition Wrench Sets

These wrench sets feature 15° and 75° angles to turn nuts and bolts in tight spaces.

Wrench Head Sizes	Item No.
7⁄32 in, 15⁄64 in, ¼ in, 9⁄32 in, 5⁄16 in, 11⁄32 in, ⅜ in, 7⁄16 in	**2GKT1**
5 mm, 5 ½ mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm	**2GKT2**

54PR21

2HLG7

WESTWARD GEARWRENCH

Spark Plug Socket Sets

Description	Drive Size	Brand	Item No.
9⁄16 in, ⅝ in, 16 mm, 13⁄16 in, 21 mm	⅜ in	Westward	**54PR21**
3-Pc. ⅝ in Magnetic Swivel Spark Plug Service Kit	⅜ in	Gearwrench	**2HLG7**

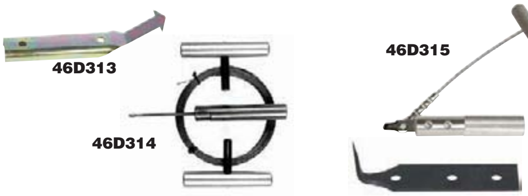
OTC

5MG16

Seal and Bearing Driver Sets

Include discs and handles that can be assembled into a pilot, a spacer, and a driver. Sizes graduate in 1⁄16" increments.

Includes	Dia.	Mfr. Model	Item No.
Sizes: ⅝ to 2 in dia and Storage Box	⅝ in to 2 in	27793	**5MG15**
Sizes: ½ to 3 in dia, 41 Discs, and 2 Handles	½ in to 3 in	27794	**5MG16**
3 Handles and 65 Discs	½ in to 4 ½ in	27797	**2TVJ7**



46D313 46D314 46D315 46D316

KEYSCO TOOLS

Vehicle Windshield Tools

L	W	H	Material	Mfr. Model	Item No.
Moulding Release Tool					
7 in	1 ½ in	1 ½ in	Steel	77276	**46D313**
Windshield Wire Kit					
7 in	5 in	1 in	Steel (Handle)	77390	**46D314**
Windshield Removal Tool					
9 in	3 in	1 in	Steel (Blade)	77374	**46D315**
3 19⁄64 in	3 51⁄64 in	1 in	Steel	77470	**46D316**

PROTO

Soft Jaw Cannon Plug Pliers

4-position privot design helps concentricity. ¾" to 2½" capacity. Replaceable pads on the jaws protect the work piece from scratching or marking.

Description	Mfr. Model	Item No.
Soft Jaw Cannon Plug Pliers	J253G	**4JV77**

GEARWRENCH

2ZPF9

Spark Plug Gap and Feeler Gauges

Description	Cap.	Mfr. Model	Item No.
Spark Plug Gap Adjusting Tools	0.025 in to 0.045 in	166D	**2ZPF9**
Feeler Gauge, 32 Blades	0.0015 to 0.035 in	161D	**2ZPF6**
15 Blade Feeler Gauge, 0.002" to 0.025" Capacity	0.002 to 0.025 in	162D	**2ZPF7**

Cordless Tool Automotive Work Lights

Milwaukee DEWALT

Cordless tool automotive work lights mount to vehicles and shine light onto engines and undercarriages.

Battery Platform	Brightness Level	Number of Light Output Modes	Cordless Tool Kit Contents	Tool Length	Mount Type	Mfr. Model	Item No.
Milwaukee							
M12	600 lm, 1,350 lm	2	Bare Tool	47 ½ in	Hang Hook	2125-20	**408L65**
M12	600 lm, 1,350 lm	2	Bare Tool, Battery, Charger	47 ½ in	Hang Hook	2125-21XC	**408L66**
M12	600 lm, 800 lm, 1,200 lm	3	Bare Tool	14 in	Magnetic	2126-20	**783FT7**
M12	600 lm, 800 lm, 1,200 lm	3	Bare Tool, Battery, Charger	14 in	Magnetic	2126-21XC	**783FT8**
DeWalt							
12V MAX; 20V MAX; FLEXVOLT	800 lm, 1,700 lm	2	Bare Tool	74 in	Hang Hook	DCL045B	**784K58**

783FT8 408L66 784K58

STEELMAN.

Electronic Stethoscopes

Sensor tips can be placed directly on a housing to amplify sound while the headphones shut out surrounding noise. Nonconductive microphone will not zap computer circuitry. Flexible-shaft probe reaches into hard-to-reach areas. 20C895 EngineEAR II adds 7-level control for extra sensitivity and reduced distortion.

Description	Mfr. Model	Item No.
EngineEAR Electric Stethoscope	65001	**20C897**
EngineEAR® II Electronic Stethoscopes	06800	**20C895**

1MZU2

WESTWARD GEARWRENCH PROTO

Mechanic's Stethoscopes

Diagnostic tools help pinpoint potential trouble spots in noisy engine compartments, blocking the distraction of surrounding sound.

Features	Brand	Mfr. Model	Item No.
Aluminum Steel Proble and Needle	Westward	1MZU2	**1MZU2**
Aluminum Steel Probe and Needle and Shock-Resistant Handle	Gearwrench	835D	**2ZPG5**
Spring Steel Diaphragm and Shock-Resistant Handle	Proto	JFP500A	**6RKV0**

1UBG2

45JW57

WESTWARD

Piston Ring Tension Bands

Application	Includes	Item No.
Install Pistons 3 ½ to 7 in, 89 mm to 178 mm Dia For Trucks and Tractors	(1)Square Handle, (4) Spring Steel Tension Bands	**1UBG2**
Assemble and Disassemble the Piston	Clip Pliers., Metal Bands for Piston Rings 2 ⅞ in to 3 ⅛ in, 3 ⅛ in to 3 ⅜ in, 3 ⅜ in to 3 ⅝ in, 3 ⅝ in to 3 ⅞ in, 37/8 in to 4 ⅛ in, 4 ⅛ in to 4 ⅜ in	**45JW57**

3T063

45PG66

WESTWARD OTC mityvac

Compression Test Equipment

Allow you to perform standard maintenance and diagnostics that can help keep your fleet on the road.

Includes	Mfr. Model	Brand	Item No.
Gasoline Engine			
Compression Tester Gauge with 12 in Rubber Hose, 14mm Thread Spark Plug Adapter,18mm Thread Spark Plug Adapter	1MZU3	Westward	**1MZU3**
Polished Chrome Gauge and all Chrome Adapters	5606	OTC	**3T063**
(2) ¾ in Gauge with High Impact Lens, Rubber Boot, (4) Scales of Measure (psi, kg/cm2, bar, kPa), 10 in Hose, Quick Release Coupler, (2) 14mm Short Thread Adapter, 6½ in Hose, (3) 12 in Hose, 14mm Long Thread Adapter, 18mm Short Thread Adapter, 18mm Long Thread Adapter, 10mm Thread Small Engine Adapter, 12mm Thread Small Engine Adapter, Quick Release Air Hold Adapter, Custom Blow Molded Case, Field Service Kit	MV5530	Mityvac	**45PG66**

OTC

Barring Socket and Tool

Socket 38EG22 helps rotate Mack E7 and Cat 3208 diesel engines. 2TVR4's load-bearing collar offers friction-free operation while rotating Cummins B and C series diesel engines and 5.9L diesels. Works with a ½" square drive ratchet or breaker bar.

38EG22

2TVR4

Item	Mfr. Model	Item No.
Engine Barring Socket	6749	**38EG22**
Barring Tool	7471A	**2TVR4**

2ZPJ9

45FF52

GEARWRENCH WESTWARD

Engine Cylinder Hone

Adjustable spring tension and spread limiter help provide positive cutting action to hone and remove glaze. The hone is complete with 240-grit medium grit stones.

For Use With	Brand	Mfr. Model	Item No.
2834D, 2835D, 2836DD	Gearwrench	2833D	**2ZPJ9**
Engine Cylinders	Westward	45FF52	**45FF52**

Automotive Filters

Protect your air intake systems, fuel pumps and injectors, engines, and other systems against damaging contaminants. These professional-quality filters are built to provide consistent, efficient operation over their entire service life.

Note: See our full offering of automotive filters, filter accessories, gaskets, seals, and o-rings on Grainger.com®. Search for "Automotive Mechanical."

Mfr. Model	Fits	Replaces	Item No.
Oil Filter			
B161-S	Acura, Ford, Honda, Mazda Automotive; Kubota Engines	Ford D87Z-6731-A; Mazda 8173-23-802	**2KYA5**
B227	Chrysler, Ford, GMC, Honda, Isuzu, Mitsubishi Automotive; Kubota, Yanmar Engines	Kubota 15241-39092; Yanmar 1196-6035150	**2KYC3**
B228	Atlas Copco Compressors; Audi, BMW, GM Automotive; Bobcat, Claas, Gehl Equipment; Deutz Engines	Deutz 1163420; GMC 6696776	**2KYH5**
B7322	John Deere Equipment	John Deere RE504836	**3XUH3**
BD7166	GMC Trucks; Isuzu Engines	GMC 97719921; Isuzu 2-90654-600-0, 8-97049-282-0	**2KZL3**
P7003	Caterpillar Industrial, Marine Engines	Caterpillar 1R0726, 4P2839, 7N7500	**2NTX3**
Air Filter			
RS3715	Exmark Lawn & Garden Tractors; Bobcat, John Deere Equipment	John Deere M113621	**2KYE5**
RS3544	Case, Caterpillar, Gehl, John Deere, New Holland, Vermeer, Volvo Equipment	Case 222421A1; Caterpillar 110-6326; Gehl L99453; John Deere AT171853; New Holland 86982524	**2KXZ9**
RS3704	Isuzu, Yanmar Engines; Bobcat, Caterpillar, John Deere, Komatsu, Kubota Equipment	John Deere M131802; Kubota TA040-93230; Melroe-Bobcat 6672467; Yanmar 119808-12520	**2KYH1**
RS4989	Caterpillar, John Deere, New Holland Equipment	Perkins SEV551F14	**4RFV4**
PA31004	Cummins QSF 3.8 (Final Tier 4), QSB4.5 (Final Tier 4), QSF2.8 Naturally Aspirated (Tier 4), QSF2.8 Turbo (Tier 3), QSF 2.8 (Final Tier 4) Engines	Fleetguard AF55020; JLG Industries Inc. 70024177; Doosan 46595499	**460K03**
Fuel Filter			
PF7890-30	Racor 1000FH Series Housings	Racor 2020 Series	**2KXW9**
BF940	Allis Chalmers, Kubota, Massey Ferguson Equipment; Yanmar Engines	Allis Chalmers 2098616; Kubota 15221-43081	**2KYA8**
BF1281	Primary Fuel for Racor 4120 Series Fuel/Water Separators	Racor R120P	**2VML8**
BF46050	Genie S-Boom, Scissors and Telehandlers	Genie 236260; Bomag 8820065; Caterpillar 4664177; Claas 19951210; Deutz 4130241, 4130650; JLG Industries 70025153	**52KA87**
PF7982	Case, Hitachi, J.C. Bamford, John Deere, Link-Belt Excavators; Mitsubishi Trucks	Hitachi 4642641; Isuzu 8-98008-840-0; S-F Filter SK3160	**6GHL4**
PF7984	John Deere Excavators	Hitachi 4679981; Isuzu 8-98074-288-0; S-F Filter SK3022	**6GHL6**
Hydraulic Filter			
BT839	Bobcat, Ford, Toro, Vermeer, Versatile Equipment; Cross, Gresen, Michigan Fluid Power Hydraulic Systems	Cross 1A9023; Gresen 8057000; Michigan Fluid Power 201026	**2KYA6**
BT287-10	Case, Case-International, Caterpillar, Champion, Ditch Witch, Dynamic Industries, Ford, Gehl, Hesston, John Deere, Manitou, Michigan Fluid Power, New Holland, Steiger Equipment	Case 87027972; Caterpillar 9T5664; Champion 13028; Ditch Witch 155-954; Dynamic 1H1234; John Deere AT58368; Michigan Fluid Power 200-0600; New Holland 86542664	**2KXX9**
BT8851-MPG	Agco, Caterpillar, Cedarapids, Ford, Gehl, John Deere, New Holland, Vermeer, V.M.E., Volvo Equipment	Agco 303506819; Caterpillar 1G8878; Cedarapids 451750014101; John Deere RE47313; New Holland 89821387; Vermeer 73113001; V.M.E. 110366077	**2KYH9**
BT8892-MPG	Ingersoll-Rand Compressors	Ingersoll-Rand 36860336; Donaldson P165672	**2NUN6**

Oil Filter Pliers

Jaw-type design helps provide the torque to ease oil filter removal.

Description	Adjustable Cap.	Item No.
Westward		
Adjustable	2 ¼ in to 5 in	**45FF23**
Adjustable	2 ⅜ in to 4 ¾ in	**45FF38**
Channellock		
4-Position	1 ¾ in to 3 in	**2ELD8**
5-Position	2 ½ in to 3 ¾ in	**5LJ40**
6-Position	2 ½ in to 4 ½ in	**5LJ41**
Adjustable	2 ½ in to 3 ¾ in	**54VL39**
Adjustable	2 ½ in to 5 ½ in	**38GU19**
Gearwrench		
Adjustable	2 in to 5 in	**2ZPL9**
Fixed Joint	2 ½ in to 3 ¼ in	**11U408**
Fixed Joint	2 11/16 in to 3 ¾ in	**11U407**
Fixed Range Slip Joint	2 15/16 in to 3 ⅝ in	**2ZPL2**
Proto		
Adjustable	3 ¾ in to 7 in	**6RKN7**
Milwaukee		
Adjustable	3 ½ in	**49JT84**

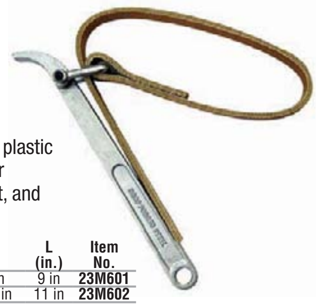
45FF23

5LJ41

2ZPL9

Rubber Strap Wrenches

For polished pipe and fittings, plastic pipe and fittings, oil and water filters, glass pipe, PVC conduit, and polished shafts.



Description	Cap.	L (in.)	Item No.
Strap Wrenches	1 in to 6 9/10 in	9 in	**23M601**
Strap Wrenches	1 ½ in to 9 ½ in	11 in	**23M602**

Oil Filter Strap Wrenches

For use in removing spin-on type oil filters. Various styles available to fit most cars, trucks, tractors, and heavy equipment.

For Outside Dia.	Strap Width	Strap Material	Brand	Item No.
Standard Handle				
Iron Handle Material				
2¼"-to-2-9/16"	1 1/16 in	Alloy Steel	Westward	**1EKJ4**
3 7/16"-to-3-3/4"	1 1/16 in	Alloy Steel	Westward	**1EKJ2**
4"-to-4-3/8"	1 1/16 in	Alloy Steel	Westward	**1EKH5**
Standard Handle with 3-Position Hook				
Alloy Steel Handle Material				
2¾"-to-3-3/4"	1 in	Spring Steel	Westward	**1EKH3**
Swivel Handle, Pivots 250°				
Alloy Steel Handle Material				
3⅞"-to-4-3/8"	1 in	Spring Steel	Westward	**1EKH4**
Swivel Handle, Pivots 90°				
2 13/16"-to-3-5/32"	1 in	Alloy Steel	Plews-Lubrimatic	**4F376**
3½"-to-3-7/8"	1 in	Alloy Steel	Plews-Lubrimatic	**4F377**
Alloy Steel Handle Material				
2½"-to-3"	1 in	Alloy Steel	Gearwrench	**2ZPL1**
2⅞"-to-3-1/4"	1 in	Alloy Steel	Gearwrench	**2ZPK3**
3½"-to-3-3/8"	1 in	Alloy Steel	Gearwrench	**2ZPK2**
Iron Handle Material				
2½"-to-2-13/16"	1 1/16 in	Alloy Steel	Westward	**1EKH7**
Plastic, Rubber Handle Material				
2⅞"-to-3-3/8"	1 in	Spring Steel	Westward	**45JW47**
3⅜"-to-3-3/4"	1 in	Spring Steel	Westward	**45JW48**
3⅝"-to-4"	1 ½ in	Alloy Steel	Baldwin Filters	**4ZKL7**
3¾"-to-4-3/8"	1 in	Spring Steel	Westward	**45JW49**
Plastic Handle Material				
2⅞"-to-3-1/4"	1 in	Stainless Steel	Proto	**1GF36**
3½"-to-3-7/8"	1 in	Stainless Steel	Proto	**1GF37**
4⅛"-to-4-1/2"	1 in	Stainless Steel	Proto	**1GF35**
Strap Wrench, ½" Square Drive Ratchet				
3¾"-to-4-1/2"	1 ½ in	Alloy Steel	Gearwrench	**2ZPH4**
4⅛-to-4-5/8"	1 ½ in	Spring Steel	Westward	**45JW50**
4⅛"-to-4-3/4"	1 ½ in	Alloy Steel	OTC	**39E934**
4⅛"-to-5"	3 in	Alloy Steel	Baldwin Filters	**4ZPL4**
4⅜"-to-5-1/4"	3 in	Alloy Steel	Baldwin Filters	**4ZRU9**
4½"-to-5-1/4"	1 ½ in	Alloy Steel	Gearwrench	**2ZPH5**
4⅝"-to-5-1/8"	1 ½ in	Spring Steel	Westward	**45JW51**
4¾"-to-5-1/2"	3 in	Alloy Steel	Baldwin Filters	**4ZRZ6**
5¼"-to-5-3/4"	1 ½ in	Alloy Steel	Gearwrench	**2ZPH6**
6"	1 ½ in	Nylon	Gearwrench	**2ZPK4**
Strap Wrench, ⅜" and ½" Square Drive Ratchet				
4"-to-9"	1 ½ in	Cordura	Proto	**6RKN6**
7"	2 in	Nylon	Westward	**45FF26**
9"	1 ½ in	Nylon	Gearwrench	**2ZPN3**

1EKH5

1EKH3

2ZPK2

45JW47

2ZPH4

4ZRU9

2ZPN3

11N161

1EAW9

Oil Filter Crusher

- Removes up to 95% of used oil
- Crushes filter down to 25% of original size

Includes mounting stand.

Frame Cap. (tons)	Filter Size	Total Height (in.)	Type	Mfr. Model	Item No.
Gray					
11 ton	Up to 9 in	69 ½ in	Air Operated	QP-50	**11N146**
11 ton	Up to 16 in	85 ½ in	Air Operated	QP-160	**11N161**
OTC					
10 ton	Up to 9 in	63 ½ in	Air Operated	1821	**1EAP2**
25 ton	Up to 15 ¼ in	78 in	Electric/Hydraulic	1896	**1EAW9**

Universal Belt Tension Gauge

Gauge indicates drive belt tension in newtons and pounds, to help assure maximum belt and bearing life. For use with belts of any length from ¼" to 1"W.

Scale Reads	Mfr. Model	Item No.
30–180 inch lbs.	6673	**2TVU6**

Sensor and Sending Socket Set

8-pc. set is designed to keep handy the tools you need to remove and install oxygen sensors, oil pressure sending units, and vacuum switches.

Includes	Mfr. Model	Item No.
½ in Drive 1 1⁄16 in Socket for Thermal Sensor Units, ½ in Drive 1 13⁄16 in Socket for Oil Sending Unit, ½ in Drive ⅞ in (22mm) Socket for O2 Sensor Units, ⅜ in Drive 1 1⁄16 in Deep Socket for Oil Pressure Sending Units, ⅜ in Drive ⅞ in (22mm) Low Profile Offset Socket for O2 Sensor Unit, ⅜ in Drive ⅞ in (22mm) Socket for Oxygen Sensor Units, ⅜ in Drive ⅞ in Slotted Socket for PVS, TVS, O2 Sending Units, Blow Mold Case	41720	**2HLG6**

Exhaust Clamp

For Pipe Size	Material	Item No.
Flat w/I-Block		
4 in	304 Stainless Steel	**5NDW7**
5 in	304 Stainless Steel	**5NDW8**
Flat w/Wick		
2 in	409 Stainless Steel	**5NDW9**
3 ½ in	409 Stainless Steel	**5NDX3**
4 in	409 Stainless Steel	**5NDX4**
5 in	409 Stainless Steel	**5NDX5**
Preformed w/I-Block		
2 ½ in	304 Stainless Steel	**5NDW2**
3 in	304 Stainless Steel	**5NDW3**
3 ½ in	304 Stainless Steel	**5NDW4**
4 in	304 Stainless Steel	**5NDW5**
5 in	304 Stainless Steel	**5NDW6**
U-Bolt		
2 in	Steel	**5NDX6**
3 ½ in	Steel	**5NDX7**
4 in	Steel	**5NDX8**
5 in	Steel	**5NDX9**

Flat w/I-Block

Flat w/Wick

Preformed w/I-Block

U-Bolt

52VH68

2HLH5

Magnetic Oil Drain Plug Socket Kit

Description	Mfr. Model	Item No.
OTC		
Drain Plug Pro Kit, 5 Pc	5961	**52VH68**
Heavy Duty Drain Plug Pro Kit, 3 Pc	5961HD	**52VJ31**
Gearwrench		
Oil Drain Plug Kit, 7 pc	3870D	**2HLH5**

Serpentine Belt Tool Set

2HLH4

Release tension on belt's spring-loaded idler pulley. Multipositional extension.

Includes	No. of Pieces	Brand	Item No.
Bar (½ in Dr.: 9 in L x 1 in W, ¼ in Thick), Bar (⅜ in Dr.:, 23 in L x ⅜ in W, ¼ in Thick), Claw Foot Wrenches (⅜ in Dr.: 13, 14 and 15mm), Socket Wrenches (⅜ in Dr.: 15, 16 and 18mm)	8	Westward	**1UBE8**
(3) Adapters, (3) Crowfoot Sockets, (7) 6 Point Sockets, Blow Mold Case, Long Bar, Ratcheting Wrench	15	Gearwrench	**2HLH4**

2TVU4

39E942

59MW30

Oxygen Sensor Wrenches

Description	Mfr. Model	Item No.
Oxygen Sensor Socket, ⅞ in Hex, ½ in drive	7189	**2TVU4**
Low Profile Offset Oxygen Sensor, ⅞ in Hex	4673-7	**59MW30**
Flexible head Sensor Wrench for ⅞ in Hex	6500	**39E942**

1MUE4

6RKN9

2TVT4

Exhaust Repair Tools

Tool Type	Diameter Range	Overall Length	Brand	Item No.
Exhaust Pipe and Tail Pipe Expander	1 ⅛ in to 1 ¾ in	5 ¼ in	Westward	**1MUE3**
	1 ½ in to 2 ½ in	6 ½ in	Westward	**1MUE4**
	2 ⅛ in to 3 ½ in	8 ½ in	Westward	**1MUE5**
Exhaust Pipe Cutter	¾ in to 3 ¼ in	14 ½ in	Proto	**6RKN9**
Hanger Removal Pliers	—	12 ½ in	OTC	**2TVT4**

Brakes Line Replacement and Repair Kits

Description	Mfr. Model	Item No.
SUR&R		
¼ in Brake Line Fitting Kit, 110 Pc	BR14	52HH16
¼ in Brake Line Replacement Kit, 25 Ft Line, 40 Pc	BR-EZ14	52HH03
¼ in UltraBEND Brake Line, 25 ft	BR-EZ200	52HH11
3/16 in Brake Line Fitting Kit, 110 Pc	BR316	52HH02
3/16 in Brake Line Replacement Kit, 25 Ft Line, 110 Pc	BR-EZ316	52HG76
3/16 in UltraBEND Brake Line, 25 ft	BR-EZ100	52HG98
⅜ in UltraBEND Brake Line, 25 ft	BR-EZ400	52HH15
5/16 in UltraBEND Brake Line, 25 ft	BR-EZ300	52HH14
Brake Bleeder Removal Tool Kit, 77 Pc	BB007	52HH17
Copper Washer Assortment Kit, 130 Pc	BRC7	52HH33
Flaring Tool, For 3/16 & ¼ in Tubing	HFT50	52HJ78
Super Duty Flaring Tool, For 3/16, ¼, 5/18, ⅜ in Tubing	FT351	52HJ76
OTC		
Brake Line Bender, For 3/16 & ¼ in Tubing	4403	52VH54
Brake Line Bender, For 5/16 & ⅜ inTubing	4404	52VH55
Gearwrench		
Tubing Service Kit, 12 Pc	41590D	2HLF4

Vacuum Brake Bleeder

Description	Mfr. Model	Item No.
Westward		
Hand Vacuum Pump Kit	40JM22	40JM22
Vacuum Brake Bleeder	1EKA1	1EKA1
Mityvac		
Silverline Elite Automotive Kit, Vacuum and Pressure	MV8500	1XGR6
Vacuum Brake Bleeder Kit	MV6830	1XGR5

Brake Caliper Grease

Brake lubricants help avoid squealing or screeching while reducing wear and tear. Consult your owners manual for specific recommendations for a given vehicle.

Description	Container Type	Temp. Range	Color	Size	Item No.
CRC					
Brake Caliper Syn Grease	Bottle	-30 to 600°F	Dark Gray	8 oz	1YHR2
	Tub	-30 to 600°F	Dark Gray	12 oz	5EVZ9
HI-TEMP Disc Brake Bearing Grease	Can	0° to 325°F	Dark Gray	14 oz.	1YHP8
Disc Brake Quiet	Aerosol Can	—	Red	12 oz.	1YHP3
De-Squeak™ Brake Conditioning Treatment	Aerosol Can	-10° to 1800°F	Gray	16 oz	1YHR5
Disc Brake Quiet	Bottle	—	Red	4 oz	1YHN7
Super Lube					
Silicone Brake Grease with Syncolon (PTFE)	Tube	-45° to 500°F	White	8 oz.	44N734

Brake Tools

Description	Mfr. Model	Item No.
3M		
Brake Hub Cleaning Disc Holder	07545	3FLY5
Gearwrench		
Brake Shoe Retaining Spring Tool	2774D	2ZPJ7
Brake Tool Set, 15 Pc.	41520	2HLE9
Disc Brake Piston Tool	3163D	2ZPK5
Drum Brake Adjusting Tool	287D	2ZPG1
Rear Caliper Service Kit, 11 Pc.	41540	2HLF1
OTC		
30 Ton King Pin/Brake Anchor Pin Pusher	4241	468L20
ABS Brake Proportioning Valve Depressor	7853	2TVH9
Brake Drum/Rotor Puller Spreads to 12 ¾ in	6980	39E947
Brake Fluid Tester for DOT 3	4598	52VJ28
Brake Pad Gauge	6596	22A838
Brake Spring Pliers 26 ¼ in L	7069A	48XV64
Brake Tool Set, 8 Pc.	6516	2TVJ3
Broken Bolt/Clevis Pin Extractor Tool	5057	52VH67
Calipers Hangers Set	7661	52VJ16
Disc Brake Caliper Tool Kit, 6 Pc.	7317A	2TVJ1
Disc Brake Pad Spreader	6093	52VH71
Proto		
Disc Brake Caliper Tool Kit, 6 Pc.	JFC2500MA	6RKU6
Westward		
Brake Cylinder Hone, For 1 ¼ to 3 ½ in Dia	45JW44	45JW44
Brake Resetting Gauge	1EKA5	1EKA5
Brake Socket Set, 9 Pc	1EJZ9	1EJZ9

Brake Drum Dollies

For removing and installing truck brake drums on heavy duty trucks

Description	Mfr. Model	Item No.
OTC		
Back Buddy II Truck Hub and Brake Drum Dolly	5090	14R917
Truck Brake Drum Dolly	5017A	25J129
Omegalift		
Heavy Duty Brake Drum Handler	46000	54HH34

Brake Fluids

Consult the owners manual for specific recommendations for a given vehicle.

Brand	Size	Item No.
DOT 3		
Pyroil	12 oz	4NPR4
	1 qt	4NPR5
	1 gal	4NPR3
Mag 1	12 oz	20RW69
Motor Medic	12 oz	54YF96
	1 qt	54YF95
	1 gal	54YF94
DOT 4		
Pyroil	12 oz	4NPR6
	32 oz	4NPR7
Motor Medic	12 oz	54YG25
	1 qt	54YG10
DOT 5		
Motor Medic	11 oz	54YG22
	1 qt	54YG23

45PG67

1YMH2

Mityvac Westward

Cooling System Tester Kit

Cooling system tester kit is used for testing the pressure of automotive engine cooling systems.

Item	No. of Pieces	Mfr. Model	Item No.
Mityvac			
Cooling System AirEvac Kit	4	MV4533	**45PG67**
Cooling System Test Kit	—	MV4525	**1XGR2**
Universal Cooling System Test Kit	2	MV4534	**45PG68**
Universal Radiator Adapter	1	MV4508	**45PG65**
Westward			
Cooling System Tester Kit	14	1YMH2	**1YMH2**
Radiator Cap Pressure Tester	10	1DXL5	**1DXL5**

35PA40

35PA47

35PA44

Radiator Caps

Stant

Rating	Pressure Range	For Use On	Material	Mfr. Model	Item No.
Radiator Cap					
7 psi	6 to 8 lb	A Size Neck	Metal	T7	**35PA43**
13 psi	12 to 16 lb	Mini Size Neck	Metal	T13R	**35PA39**
13 psi	12 to 16 lb	A Size Neck, Medium/Heavy-Duty Trucks	Metal	T13	**35PA40**
16 psi	14 to 18 lb	A Size Neck, 2⅝ in W, 2⅝ in H, 2⅝ in L	Metal	T16	**35PA38**
16 psi	14 to 18 lb	Mini Size Neck	Metal	T16R	**35PA41**
16 psi	14 to 18 lb	Micro Size Neck	Metal	T37	**35PA42**
16 psi	14 to 18 lb	Threaded Neck	Plastic	T46	**35PA44**
22 psi	21 to 25 lb	A Size Neck	Metal	ST207	**421J14**
Safety Radiator Cap					
13 psi	12 to 16 lb	A Size Neck	Metal	ST13	**35PA47**
13 psi	12 to 16 lb	Mini Size Neck	Metal	ST13R	**35PA48**
16 psi	14 to 18 lb	A Size Neck	Metal	ST16V	**35PA45**
16 psi	14 to 18 lb	A Size Neck	Metal	ST16	**35PA46**

Robinair

Coolant Exchanger

- 15-gal. internal waste tank
- Two, 7-gal. external supply tanks
- 10-min. exchange process
- No electricity required

Features a vacuum mode that allows safe removal of high-pressure coolant from a hot system. Process driven by 90 psi of shop air and a pump on the waste tank.

Item	Mfr. Model	Item No.
Fluid Evacuator		
Coolant Exchanger	75700	**1DZK4**
Accessories		
Coolant Tank	75370	**1DZK5**
Tank Adapter Kit	75360	**1DZK6**
Vinyl Dust Cover		
Vinyl Dust Cover	17490	**22A844**

Gates Thermoid

4GJX4

Coolant Hoses

Inside Dia. (in.)	Working Pressure (psi)	L	Color	Temp. Range	Brand	Item No.
Heater Hoses						
⅜	60	50 ft.	Black/White	-40° to 275°F	Gates	**5NDE7**
½	50	50 Ft.	Black	257°F	Thermoid	**5RLZ2**
⅝	35	50 Ft.	Black	250°F	Thermoid	**5RLY9**
⅝	50	50 Ft.	Black	257°F	Thermoid	**5RLZ3**
⅝	62	50 ft.	Red	-40° to 200°F	Thermoid	**45AT63**
⅝	95	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDE9**
¾	35	50 Ft.	Black	250°F	Thermoid	**5RLZ0**
¾	50	50 Ft.	Black	257°F	Thermoid	**5RMA9**
¾	80	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDF0**
1	25	50 Ft.	Black	250°F	Thermoid	**5RLZ1**
1	75	50 Ft.	Black/Green	-40° to 275°F	Gates	**5NDF1**
Radiator Hoses						
¾	100	3 Ft.	Blue	-65° to 350°F	—	**4GJX4**
¾	100	3 Ft.	Black/Green	-40° to 257°F	Gates	**5NDC3**
1½	100	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDC9**
2	60	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDD3**
2	75	3 ft.	Blue	-70° to 350°F	Gates	**45VF36**
2½	60	3 Ft.	Black/Green	-40° to 275°F	Gates	**5NDD7**

38N842

41RC51

Hose Clamp Pliers

Mag-Mate OTC

Description	Max. Jaw Opening (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
Corbin Clamp Pliers					
Straight	2¼	9	Mag-Mate	PLC210	**38N842**
Automotive Hose Clamp Pliers					
Straight	2¼	9	Mag-Mate	PLC200	**38N841**
Extra Long	3½	10½	Mag-Mate	PLC230	**38N844**
Extra Long with 45° Angle	2½	10½	Mag-Mate	PLC220	**38N843**
Flexible Hose Clamp Pliers	—	—	OTC	4525	**41RC51**

Coolant Accessories

Westward Robinair Mityvac Supercool Plews Lubrimatic

Item	Brand	Item No.
Heating and Cooling Tools		
Condenser Fin Comb	Westward	**1DXN3**
Chemical Test Strips		
Coolant Test Strips	Robinair	**39E955**
Tester Kits		
Antifreeze/ Coolant Tester	Westward	**1DXL6**
Professional Antifreeze Tester	Westward	**1DXL7**

Item	Brand	Item No.
Pinch Off Pliers		
Locking Hose Clamp Plier	Mityvac	**45PG76**
Heating and Cooling Tools		
LED U/V Leak Detection Light	Supercool	**40L409**
Vehicle Funnels		
Radiator Filler	Plews-Lubrimatic	**6Y812**

1DXN3

1DXL7

45PG76

38UP51

22A808

ROBINAIR

A/C RRR Machines

Refrigerant (RRR) Machine for Hybrid and Nonhybrid Vehicles—Efficiently recovers, recycles, evacuates, leak tests, and recharges R-134A refrigerant. Automatic features include leak testing, refilling, and oil draining.

407K04 recovers 95% of refrigeration in vehicle A/C system and programs +/-1/2 oz. of programmable charge.

38UP51services hybrid vehicles with high voltage electric compressors.

38UP52 has ability to add printer and refrigerant identifier.

52ET95 has the capability of charging without continual monitoring.

1234YF Recovery, Recycle, Recharge (RRR) Machine—Integrated refrigerant identifier samples R1234YF refrigerant in an A/C system before recovery. Fully automatic operation, services both standard and hybrid vehicle A/C systems without continual monitoring. Include automatic internal tank refill, oil drain, and color display. 416L15 has a 2.5 reservoir capacity.

A/C Flushing—Eases flushing of condensers, evaporators, and lines. Features pulsing action to loosen corrosion, dirt, and debris, while unit injects air bubbles into liquid stream for greater cleaning action. Includes adapters to mate with ¼" flare and ⅜" quick-disconnect fitting kits.

Description	Mfr. Model	Item No.
R-134a Recovery/Recycling Units		
Economy R-134a Refrigerant Recovery, Recycling, and Recharging Machine	34288NI	**407K04**
Premier R-134a Refrigerant Recovery, Recycling, and Recharging Machine for Hybrid and Non-Hybrid Vehicles	34788NI-H	**38UP51**
Premier R-134a Refrigerant Recovery, Recycling, and Recharging Machine	34788NI	**38UP52**
Premium Refrigerant Recover, Recycle, Recharge Machine	34988NI	**52ET95**
Connected R-134a ACS Machine with 98.5% efficiency and 10" touch LCD display	34998	**60HR95**
R-1234yf Recovery/Recycling Units		
Premier R-1234yf Recover, Recycle and Recharge Machine	AC1234-4	**416L15**
Connected R-1234YF ACS Machine with 98.5% efficiency and 10" touch LCD display	AC1234-9	**60HR96**
A/C Flushing		
A/C System Component Flusher	17580	**22A808**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Bluetooth Temperature Probe	34998, AC1234-9	80213	**60HT01**
Bluetooth Temperature Probe - 2 pack	34998, AC1234-9	80212	**60HR99**
DiscovR Refrigerant Identifier	Refrigerant Systems	16009	**22A840**
R-1234YF PAG Oil Labeled Syringe-type Injector	R-1234YF Refrigerant Systems	18465	**54HD83**
R-1234YF POE Oil Only Syringe-type Injector	R-1234YF Refrigerant Systems	18470	**54HD81**
R134a Manifold Hose Kit	134a Refrigerant Systems	48510	**22A842**
Recycling Filter-Driers	17700-2K, 17700A, 34288, 34288NI, 34700, 34700-2K, 34788, 34788-H, 34788NI, 34788NI-H, 34800, 34800-2K, 34888HD, 34900, 34988, 34988NI, 34998, AC1234-4, AC1234-6, AC1234-9	34724	**22A846**
Recycling Filter-Driers	17700A, 34450, 34700	34430	**22A847**
REPLACEMENT FILTER	16900, 16910	16913	**22A848**
SERVICE COUPLER SET	R-1234YF Refrigerant Systems	18124	**54HD85**
Vinyl Dust Cover	34900, 34800-2K, 17800B	17490	**22A844**
Vinyl Dust Cover	17700-2K, 17700Z, 34134Z, 342000, 34700-2K, 34700Z, 34702Z, 34711-2K, AC375, AC375A	17492	**22A845**
Vinyl Dust Cover	34288NI, 34788NI, 34788NI-H, 34988NI, AC1234-4, AC1234-6	17499	**473F83**
Wireless OBD II VCI	34998, AC1234-9, 34288NI, 34788NI, 34788NI-H, 34988NI, and AC1234-4	ACS-250	**60HT02**

4LTU6

SUPERCOOL

A/C Fluids and Chemicals

Description	For Use With	Viscosity Index	Size	Item No.
A/C Flush				
Solvent-Based	—	—	32 oz	**12V181**
Solvent-Based	—	—	1 gal	**12V182**
Biodegradable	R12, R134a, R22	—	32 oz	**4LTU5**
Biodegradable	R12, R134a, R22	—	1 gal	**4LTU6**
Power Jet Aerosol Flush Kit	A/C Systems	—	—	**40L414**
AC Flush Gun	HFO-1234yf, R12 Refrigerants, R134a	—	—	**40L413**
Power Jet Aerosol Refill	A/C Systems	—	—	**40L415**
Lubricants Compatible with R134a Refrigerant				
PAG 46 + UV Dye	R134a	46	32 oz	**4LTR5**
PAG 100 + UV Dye	R134a	100	32 oz	**4LTR6**
PAG 150 + UV Dye	R134a	150	32 oz	**4LTR7**
Lubricant Compatible with R134a and R12 Refrigerant				
Ester Oil + UV Dye	R12, R134a, R22	100	32 oz	**4LTT6**
Leak Detection Dye				
U/V Super Dye, Green	R12, R134a, R22	—	1 oz	**4LTU7**
U/V Super Dye, Green, Self-Measure Bottle	R12, R134a, R22	—	8 oz	**4LTV1**
Vacuum Pump Oil				
Vacuum Pump Oil, Synthetic, 32 fl oz	—	118	32 oz.	**12V185**
Vacuum Pump Oil, Synthetic, 1 gal	—	118	1 gal.	**12V186**
Vacuum Pump Oil, 1 qt	—	107	—	**49YZ91**
Vacuum Pump Oil, 1 gal	—	107	—	**49YZ92**

SUPERCOOL ROBINAIR

Air Conditioning Maintenance Tools

Vacuum Pumps—Quickly dry A/C systems after repair. Include ½" ACME and ¼" SAE suction ports.

- 115VAC, 60 Hz
- For R134A refrigerant

Manifold Gauge Sets—Check high- and low-side pressures on automotive A/C units.

4LTW8

Description	Brand	Mfr. Model	Item No.
Single-Stage Vacuum Pump			
⅙ HP, 1.70 cfm, 25 Micron, 115VAC, 60 Hz, For R134A regfrigerant	Supercool	18406	**4LTW8**
¼ HP, 2.75 cfm, 75 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	18413	**4LTW9**
2-Stage Vacuum Pump			
⅓ HP, 5.50 cfm, 15 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	13654	**4LTW7**
½ HP, 2.75 cfm, 15 Micron, 115VAC, 60 Hz, For R134A refrigerant	Supercool	13647	**12V184**
⅓ HP, A/C Vacuum Pump	Robinair	15400	**19XY37**
Vacuum Pump, Dual Stage 110-115V/220-250V, 4 CFM	Robinair	15401	**19XY26**
Manifold Gauge Sets			
R134a Brass Gauge with 6-ft. Hoses and Couplers	Supercool	66	**4LTW4**
R134a Aluminum Gauge with 6-ft. Hoses and Couplers	Supercool	2211B	**4LTW5**
Maintenance Tools			
Refrigerant Leak Detector	Supercool	D440A-C	**4LTX3**
A/C O-Ring Assortment, Universal, 350 pcs.	Supercool	OR350	**4LTX1**
Power Jet Flush Hose	Supercool	27491	**40L416**
Side Coupler, Blue	Supercool	26890	**49YZ87**
Side Coupler, Red	Supercool	26906	**49YZ88**
R134a Can Tap, Screw-On	Supercool	51205	**4LTW3**
Manifold Gauge Sets			
R134a Aluminum Gauge with 6-ft. Hoses and Couplers	Supercool	2211B	**4LTW5**
Maintenance Tools			
A/C Charging Hose Set, 72", R134a	Supercool	1767	**4LTW6**

54HD76

45NU54

49AJ29

OTC

OBD II Auto Scanners

OTC Evolve Professional Diagnostic Tool—Diagnoses drivability issues on virtually any vehicle produced in the last 30 years. Dual Wi-Fi® allows you to check and test components while moving freely around the vehicle with secure connection. Includes wiring diagrams for most vehicles, model years 1986 to present, available directly on the tool. Comes with one-year, renewable diagnostics subscription, which provides updated vehicle coverage. Once subscription expires, all vehicle coverage remains with the tool but the wiring diagrams will no longer function.

- Bravo software and Android™ operating system
- Includes rugged tablet with 10.4-inch screen

OTC Encore Professional Diagnostic Tool—Performs diagnostics and auto-identifies vehicles to help diagnose issues. Touch screen display provides codes and related information, and can also browse the Internet for related info. Comes with one-year, renewable diagnostics subscription, which provides updated vehicle coverage, tests, and resets. Once subscription expires, all vehicle coverage remains with the tool but new coverage updates will cease.

- Android™ operating system
- Rubber overmolded grips
- 8GB internal storage
- Integrated Wi-Fi® and Bluetooth®

Trilingual OBD II ABS and Airbag Scan Tool—Features multilingual menu and definitions with English, Spanish, and French displayed on the LCD. Shows ABS and Airbag codes for most 1996–2013 GM, Ford, Chrysler, Toyota, Honda, Nissan, and Hyundai vehicles. Also monitors battery, alternator, and charging systems. Automatically populates vehicle data for most 2000 and newer vehicles. USB cable included.

52GY69

45NU67

22A834

416L19

OBD II Auto Scanner with CodeConnect®—Displays Diagnostic Trouble Codes (DTCs) and also helps troubleshoot with top-reported fixes specific to vehicle make, model, year, and engine. Also monitors battery, alternator, and charging system.

OBD II Scan Tool Kit—Performs On-Board Diagnostics (OBD) and can relearn and reprogram new or existing replacement sensors.

- OBDII TPMS Device
- Wall Mount Battery Charger
- Carrying Case
- USB Cable
- Bluetooth OBDII Dongle
- RJ45 Cable
- Lithium Battery
- Installation CD
- Relearn Magnet
- Instruction Manual

OBDII PocketScan—Reads OBD II DTCs from the on-board computers of 1996 and newer cars and light trucks. Helps determine the cause of Check Engine lights. Allows the user to clear the DTCs and turn off the Check Engine light once repairs are made.

Battery & Starter/Charger System Tester—For use with OTC Encore and Evolve scan tools. Performs battery and system tests on 6V and 12V automotive batteries, including regular flooded, enhanced flooded, AGM, EV, and start-stop. Creates health reports. Communicates wirelessly with Encore and Evolve software version 2.10 via Bluetooth®.

Description	Mfr. Model	Item No.
OTC Evolve Diagnostic Tool	3896	54HD76
OTC Encore Diagnostic Tool	3893	45NU54
OBDII, ABS & Airbag Scan Tool	3209	49AJ29
Codeconnect® with ABS & Airbag	3210	52GY69
OBDII, Tire Pressure Monitoring System (TPMS) Tool	3838	45NU67
OBDII PocketScan® Code Reader	CP9125 C	22A834
Battery Charging/Starter System Tester	3914	416L19

WESTWARD

Antistatic Wrist Band

Wear this 1 megohm antistatic wrist band to help eliminate static electricity while working on electric components. It features a 6-ft. coil cord and alligator clip.

Description	Item No.
Antistatic Wrist Band	23M591

45NU89

1EKN8

1EKN4

OTC
WESTWARD

Circuit Testers

Item	Voltage Range	Cord Length	Item No.
OTC			
Circuit Tester	12/24V	24 ft	45NU89
Circuit Tester	6/12V	5 ft	45NU91
Circuit Tester	6/12V	12 ft	45NU92
Circuit Tester	3/26V	12 ft	45NU88
Circuit Tester	6/12V	12 ft	45NU90
Circuit Tester	6/12V	12 ft	45NU93
Twin Jumper Leads	600/1000V	5 ft	52VH40
Jumper Lead	12/24V	25 ft	52VH41
Westward			
Circuit Tester	6/12/24V	4 ft	1EKN8
Voltage Tester	6 to 24V	—	1EKN4
Circuit Tracer Kit	6/12/18/24/36V	4 ft	1EKN5

4Z581

3Z634

Battery Testers

WESTWARD

Hand-Held Load Testers—Use to test the state and condition of 6 and 12V batteries.

Compact Charging and Starting Tester—Durable all-metal housing with color-coded meter and heavy-duty 18"L cable.

Universal Charging and Starting Tester—This universal 6 and 12V tester features four scales: battery percent of charge, battery load, charging system test, and starting system test. Unit has a heavy-duty steel case and 6-ft. cables with nylon thermo clamps.

Type	Voltage Range	Load Ranges	Works With	Item No.
Hand-Held Load Testers				
Analog	0 to 16V	50 to 100A	6V and 12V Batteries	**22YM05**
Analog	0 to 16V	50 to 125A	6V and 12V Batteries	**22YM06**
Digital	8 to 20V	50 to 125A	12V Batteries	**22YM07**
Compact Charging and Starting Tester				
Analog	4 to 16V	100 A	6V and 12V Batteries	**4Z581**
Universal Charging and Starting Tester				
Analog	6 to 12V	200 A	6V and 12V Batteries	**3Z634**

45NU82

45NU84

OTC

Battery Load Testers

45NU82 features convenient, portable, and easy-to read scales and tests batteries on or off the car in just 10 seconds. Determines state-of-charge, cranking, charging volts, and good/bad status. Also includes a load safety switch to prevent arcing.

45NU84 is lightweight and compact and helps to produce more accurate results. Features large, easy-to-read display, ergonomic handle, alternator test lead, and ripple detection light. Determines state of charge and tests battery load, starter and charging system, and alternate ripple.

Type	Voltage Range	Load Ranges	Works With	Mfr. Model	Item No.
Analog	0 to 16V	100 A	6V and 12V Batteries	3180	**45NU82**
Analog	0 to 16V	130 A	6V and 12V Batteries	3181	**45NU83**
Digital	0 to 16V	131 A	6V and 12V Batteries	3182	**45NU84**

45RK03

29RW15

ASSOCIATED

Handheld Battery Tester

Lightweight and simple-to-operate unit tests all battery types. Easy-to-read meters are recessed to provide added protection from damage. Includes stainless steel enclosures and a heavy-duty hanger hook.

Display	Voltage Range	Load Ranges	Mfr. Model	Item No.
Analog	12 to 24V	125 A	6024	**45RK03**
Digital	12 to 24V	125 A	6030DV	**45RK06**
Digital	9 to 15V	0	12-1015	**29RW15**

ASSOCIATED

Carbon Pile Load Tester

Features two large 4.5" analog meters to display amps and volts and a manual adjust control knob. DC test leads are 2.5-ft. 4 AWG cable.

Buzzer sounds after load has been engaged for 15 sec.

Type	Voltage Range	Load Ranges	Works With	Mfr. Model	Item No.
Analog	0 to 16V	0 to 500A	6V and 12V Batteries	6034	**29RW02**

2F133

417Y34

449W35

CRC NOCO Zep PROFESSIONAL

Battery Cleaner and Corrosion Protection

Neutralizes acid corrosion and removes dirt and grease accumulation on battery terminals and connectors.

Item	Container Size	Item No.	Pkg. Qty.
CRC			
Battery Cleaner	12 oz	**2F133**	1
Battery Cleaner with Acid Indicator	12 oz	**1YHN4**	1
Battery Corrosion Preventative	12 oz	**2F134**	1
NOCO			
Battery Corrosion Preventative	12 oz	**417Y34**	1
Zep			
Battery Corrosion Preventative	16 oz	**43NR98**	12
Battery Cleaner	15 oz	**449W35**	12

1EFY3 3R556 1VAG2 1EFY1 1EFY6 3YVP5 1EFY2 6Y814 1EFY7 1EFX3 5NEG0

WESTWARD PROTO QUICKCABLE TOUGH GUY GEARWRENCH FUNNEL KING Fluid Control Products

Battery Tools and Carriers

Description	Brand	Item No.
Battery Maintenance Tools		
4-Way Battery Post and Terminal Cleaner	Westward	**1EFY3**
Battery Post and Terminal Cleaner, 3⅜"L, Plastic Holder	Proto	**3R556**
Terminal Brush	Quickcable	**25KD97**
Curved Scratch Brush, 3 x 7 304 Stainless Steel Fill	Tough Guy	**1VAG2**
Duel-End Battery Brush, 3 ¾ in"L, Plastic Holder	Westward	**1EFY1**
Duel-End Battery Brush, 3¾"L, Steel Holder	Westward	**1EFY8**
Side Terminal Brass Brush with 5/16" Hex in Handle	Quickcable	**5NEF8**
Terminal Spreader Cleaning Pliers	Gearwrench	**3YVP5**
Battery Terminal Cleaner, Jaw Spread ⅝" to ⅞"	Westward	**1EFY5**
Top Post Battery Terminal Pullers	Westward	**1EFY2**
Side Terminal Ratchet Wrench, 5/16" Hex Opening, Reversible	Westward	**1EFY6**
Battery Filler with Shutoff Nozzle	Funnel King	**6Y813**
Battery Filler Bulb	Funnel King	**6Y814**
Cable Stripper, Wire up to 4/0 Gauge	Quickcable	**5LLZ9**
Battery Carriers		
Carrying Strap For Top Post Batteries, Spread Range 16"	Westward	**1EFY7**
Universal Size Battery Carrier, Spread Range 3" to 7"	Westward	**1EFZ2**
Leather Strap Battery Carrier, Spread Range Up to 8½"	Westward	**1EFX3**
Side Lifter with Sidewall Grip Pads, Spread Range 5¼" to 7½"	Westward	**1EFZ1**
Side Lifter with Sidewall Grip Pads, For All Battery Types and Sizes	Quickcable	**5NEG0**

Battery Accessories

Description	Brand	Item No.	Pkg. Qty.
Alligator Clamps			
16 ga 30 in Black, Red	Grote	2FGB9	2
Battery Box			
Battery Dual Group 8D ,49 ½ in L x 18 ¼ in W x 12 ¼ in H	Quickcable	49EJ86	1
Battery Group 24 ,13 ½ in L x 9 ¼ in W x 10 ¼ in H	Quickcable	49EJ89	1
Battery Group 24, Group 27, Group 31 ,17 ¾ in L x 10 ¼ in W x 10 ⅞ in H	Quickcable	49EJ91	1
Battery Group 27 ,16 ⅛ in L x 9 ⅝ in W x 10 ⅞ in H	Quickcable	49EJ90	1
Battery Group 4D ,24 11⁄16 in L x 13 in W x 14 in H	NOCO	417Y46	1
Battery Group 4D GC2 ,26 ¾ in L x 14 in W x 12 ¾ in H	Quickcable	49EJ94	1
Battery Group 8D ,24 7⁄16 in L x 15 7⁄16 in W x 12 5⁄16 in H	NOCO	417Y49	1
Battery Group 8D ,26 7⁄16 in L x 24 7⁄16 in W x 12 ½ in H	NOCO	417Y50	1
Battery Group U1 ,10 ¾ in L x 7 ½ in W x 8 ½ in H	Quickcable	49EJ88	1
Battery Clamp			
Battery Charging Clamp, 80 AMP	Westward	23PC43	1
Replace Battery/Chargers Clamps, 500 AMP	Westward	23PC40	1
Replace Battery/Chargers Clamps, 800 AMP	Associated Equip	3MJU1	1
Replace Battery/Chargers Clamps, 800 AMP	Bayco	3MJX4	2
Battery Hold Down			
Adjustable 5½ to 9"	Quickcable	5NFH1	1
Hold Down Set, J Bolts, 10"L	Grote	2FFH5	2
Hold Down Set, J Bolts, 10 in"L	Westward	1EFZ8	1
Battery Lugs			
Lead, 1 to 4/0 ga	Grote	2FFJ6	2
Battery Rack			
Battery Charging Rack with 10 Clamp Sets, Stores 15 Batteries, 48⊠L X 48⊠H	Associated Equip	45RK22	1
Battery Terminal			
Marine, Top Post, Lead, Negative	Quickcable	2FDV8	1
Marine, Top Post, Lead, Positive	Quickcable	2FDV6	1
Military, Bolt, Copper/Lead, Negative	Quickcable	5LMP5	1
Military, Bolt, Lead, Negative/Positive	Quickcable	2FDY5	2
Military, Bolt, Top Post, Lead, Negative	Grote	2FFZ7	5
Military, Bolt, Top Post, Lead, Positive	Grote	2FFZ8	5
Straight, Copper/Brass, Negative	Quickcable	2FDX8	1
Universal, Side Terminal, Lead, Negative/Positive	Grote	2CWT2	2
Universal, Top Post, Brass, Negative/Positive	Grote	2CWR1	1
Universal, Top Post, Lead, Negative/Positive	Grote	2FEZ1	25
Universal, Top Post, Lead, Negative/Positive	Grote	2FFJ2	2
Universal, Top Post, Lead/Epoxy, Negative/Positive	Grote	2FDY3	2
Ground Strap Braided			
4 ga, 12 in Length	Quickcable	5LNJ7	2
4 ga, 18 in Length	Grote	2FFT3	1
4 ga, 18 in Length	Quickcable	5LNJ8	2
4 ga, 24 in Length	Quickcable	5NFD5	2
4 ga, 8 in Length	Quickcable	5LNJ5	2
Protective Washer Top Post			
Protective Washer Top Post	Quickcable	2FGC5	100
Terminal Cap			
Battery Terminal Protector 1/0 to 2/0 AWG-Red	Quickcable	2FEV6	5
Battery Terminal Protector 1 to 2 AWG-Red	Quickcable	2FEV2	5
Nut, Closed Cap for Group 31	Quickcable	2FEY8	25
Straight Clamp Terminal Protector 1/0 to 2/0 AWG-Black	Quickcable	2FEU5	5
Straight Clamp Terminal Protector 1/0 to 2/0 AWG-Red	Quickcable	2FEU7	5
Test Clip			
Test Clip - 25 Amp	Quickcable	2FDW1	2

Gauge	Color Code	NEGATIVE Pkg. of 1 Item No.	NEGATIVE Pkg. of 5 Item No.	POSITIVE Pkg. of 1 Item No.	POSITIVE Pkg. of 5 Item No.
WESTWARD, Battery Terminal Straight Copper Material					
2/0 ga	Orange	23PC55	23PC79	23PC56	23PC80
1/0 ga	Black	—	23PC77	—	23PC78

Insulated Lug Crimpers

Insulated, lever-style lug crimpers feature adjustable color-coded rotating crimp dies and insulated grips.

Description	Item No.
Insulated Crimpers	
6 to 4/0 Cap. (AWG)	5NFK4
8 to 1/0 Cap. (AWG)	2FEG1
Cable Cutter	
Up to 6/0 ga.	5LMC6

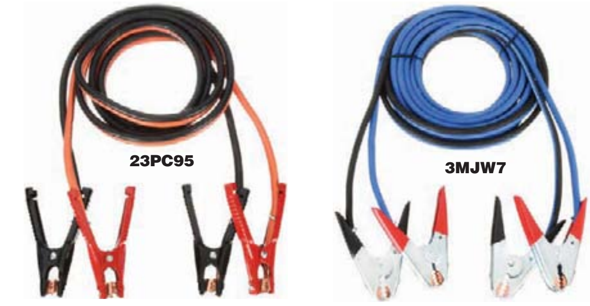
Battery Lugs

Gauge	Stud Size	Pkg. of 25 Item No.	Pkg. of 2 Item No.
6 ga	#10	23YZ12	—
	¼ in	23YZ13	23YY86
	5⁄16 in	23YZ14	23YY87
	⅜ in	23YZ15	23YY88
4 ga	¼ in	23YZ17	23YY90
	5⁄16 in	23YZ18	23YY91
	⅜ in	23YZ19	23YY92
2 ga	¼ in	23YZ21	23YY94
	5⁄16 in	23YZ22	23YY95
	⅜ in	23YZ23	23YY96
	½ in	23YZ24	—
1 ga	⅜ in	23YZ26	23YY99
	½ in	23YZ27	—
1/0 ga	⅜ in	23YZ28	23YZ02
	½ in	23YZ29	23YZ03
2/0 ga	⅜ in	23YZ30	23YZ04
	½ in	23YZ31	23YZ05
3/0 ga	⅜ in	—	23YZ06
	½ in	—	23YZ07
4/0 ga	⅜ in	23YZ08	23YZ34
	½ in	23YZ35	23YZ09

Battery Disconnect Switches

Use to quickly disconnect batteries to prevent battery drain, theft, tampering, and unauthorized use; help improve the safety of stored vehicles.

Max. Voltage	Connector Type	Stud Size	Connec. Material	Includes	Item No.
Battery Doctor					
In-Line Knife Blade					
12V	In-Line	10 mm	Copper	—	4NGU2
12V	Negative	5⁄16 in	Brass/Copper	—	4NGU1
12V	—	⅜ in to 18 in	Brass/Copper	—	6TXD4
In-Line Push Button					
12V	In-Line	—	Copper	Waterproof Cover	4NGV4
In-Line Rotary					
12/24/24V	—	10 mm	Copper	—	6TXD8
12/24/24V	—	10 mm	Copper	—	6TXD9
12/24V	In-Line	10 mm	Copper	2 Keys and Cover	4NGU6
12/24V	Stud	10 mm	Silver Plated Copper	Lockout / Mounting Bracket	34RD22
12/24V	Stud	10 mm	Silver Plated Copper	Key, Mounting Bracket	34RD23
12/24V	—	10 mm	Copper	—	6TXE0
12/24V	—	10 mm	Silver Plated Copper	—	6TXE1
12V	In-Line	10 mm	Copper	Weather-Resistant Cover, Key	4NGV3
Side Post Knife Blade					
12V	Negative	⅜ in to 18 in	Brass/Copper	—	4NGT7
Side Post Rotary					
12V	Negative	—	Zinc	Bypass Fuse	4NGU5
Top Post Knife Blade					
12V	Negative	⅝ in	Brass/Copper	—	4NGT8
12V	Negative	5⁄16-18	Brass/Copper	Wing Nut	4NGT9
12V	Negative	⅝ in	Brass/Copper	—	6TXD3
Top Post Rotary					
12V	Negative	—	Zinc	—	4NGU3
12V	Negative	—	Zinc	Bypass Fuse	4NGU4
Velvac					
Single Pole					
36V DC	—	—	—	—	21DH99



23PC95 3MJW7

46MN71

Westward Associated Bayco Buyers Phoenix USA, Inc.

Booster Cable

Durable, reliable booster cables help get vehicles running when their batteries run down.

Cable Length (ft.)	Max. Amps	Cable Color	Function	Brand	Item No.
Cord Gauge: 1					
12	500 A	Orange/Black	Standard Jaw	Westward	**23PC95**
	800 A	Orange/Black	Parrot Jaw	Westward	**5RXF9**
	800 A	Black	Plug In/Standard Jaw	Associated Equip	**45RK27**
16	500 A	Orange/Black	Standard Jaw	Westward	**23PC96**
	800 A	Orange/Black	Parrot Jaw	Westward	**5RXF8**
20	500 A	Orange/Black	Standard Jaw	Westward	**23PC97**
	800 A	Orange/Black	Parrot Jaw	Westward	**5RXF7**
	800 A	Black	Standard Jaw	Associated Equip	**29RW07**
25	800 A	Orange/Black	Parrot Jaw	Westward	**5RXG2**
	800 A	Black	Plug In/Standard Jaw	Associated Equip	**3MKA5**
	800 A	Black, Blue	Standard	Bayco	**3MJX2**
	800 A	Black	Standard Jaw	Associated Equip	**29RW08**
Cord Gauge: 1/0					
15	800 A	Black	Standard Jaw	Associated Equip	**45RK15**
Cord Gauge: 2					
20	500 A	Orange/Black	Parrot Jaw	Westward	**5RXF4**
	500 A	Black	Parrot Jaws	Bayco	**3VRZ8**
Cord Gauge: 4					
12	500 A	Black	Plug In/Standard Jaw	Associated Equip	**45RK26**
15	500 A	Black	Standard Jaw	Associated Equip	**45RK24**
	500 A	Black	Standard Jaw	Associated Equip	**45RK25**
16	285 A	Orange/Black	Standard Jaw	Westward	**5RXG3**
	400 A	Orange/Black	Standard Jaw	Westward	**5RXF6**
	400 A	Black, Blue	Parrot Jaws	Bayco	**3VRZ7**
20	400 A	Orange/Black	Standard Jaw	Westward	**5RXF2**
	400 A	Black, Orange	Plug In/Standard Jaw	Westward	**23PC98**
	400 A	Orange/Black	Parrot Jaw	Westward	**5RXF3**
	500 A	Black, Blue	Parrot Jaws	Bayco	**3MJW7**
	500 A	Black	Standard Jaw	Associated Equip	**11Z393**
25	205 A	Orange/Black	Standard Jaw	Westward	**5RXG5**
	400 A	Black, Orange	Plug In/Standard Jaw	Westward	**5RXF5**
	500 A	Black	Standard Jaw	Associated Equip	**45RK23**
28	600 A	Gray	Plug In/Standard Jaw	Buyers Products	**46MN71**
	600 A	Blue	Plug In/Standard Jaw	Buyers Products	**46MN72**
30	1,250 A	Orange	Plug In/Standard Jaw	Phoenix	**3MKE4**
Cord Gauge: 5					
12	400 A	Black	Standard Jaw	Associated Equip	**11Z390**
	500 A	Black	Standard Jaw	Associated Equip	**11Z391**
15	500 A	Black	Standard Jaw	Associated Equip	**11Z392**
Cord Gauge: 6					
16	200 A	Orange/Black	Standard Jaw	Westward	**5RXG7**
Cord Gauge: 8					
12	200 A	Orange/Black	Standard Jaw	Westward	**5RXG1**
	250 A	Orange/Black	Standard Jaw	Westward	**5RXG4**
Cord Gauge: 10					
12	200 A	Orange/Black	Standard Jaw	Westward	**5RXG6**

Welding Cable

Westward

- 600V max.
- Neoprene insulation

Wire Size	L	Red Item No.	Black Item No.
6 AWG	25 ft	**19YE22**	**19YD94**
4 AWG	25 ft	**19YE25**	**19YD97**
2 AWG	10 ft	—	**19YD99**
	25 ft	—	**19YE01**
1/0	10 ft	**19YE33**	**19YE06**
	25 ft	**19YE34**	**19YE07**
	100 ft	**19YE35**	—
2/0	10 ft	—	**19YE09**
	25 ft	**19YE37**	**19YE10**
3/0	25 ft	—	**19YE13**
	100 ft	—	**19YE14**
4/0	25 ft	**19YE43**	**19YE16**
	100 ft	**19YE44**	**19YE17**

APP Anderson Power Products QuickCable

SB Connectors and Contacts

Battery and cable connectors are used to connect batteries to a power source. These terminal connectors and battery cable connectors are commonly used at charging stations with construction equipment or for use in other machinery and vehicles.

3BY20

3BY29

5NEH4

Wire Size (AWG)	Amps	Color	Max. Wire Dia. (in.)	Cable Well Depth (in.)	Item No.
Anderson Power Products					
SB Connectors					
4	120 A	Gray	0.298 in	0.75"	**3BY22**
6	50 A	Gray	0.221 in	0.44"	**3BY20**
6	50 A	Red	0.221 in	0.44 in	**3BY21**
1/0	175 A	Blue	0.437 in	0.75"	**3BY24**
1/0	175 A	Gray	0.437 in	0.75"	**3BY23**
1/0	175 A	Red	0.437 in	0.75"	**3BY25**
2/0	350 A	Blue	0.484 in	1.1 in	**3BY27**
2/0	350 A	Gray	0.484 in	1.1"	**3BY26**
2/0	350 A	Red	0.484 in	1.1 in	**3BY28**
SB Accessory					
Connector Handle, For Use with 175 and 350A Connectors					**3BY29**
Quickcable					
SB Connector Contacts					
1 and 1/0	175 A	Silver	—	—	**5NEG4**
2	175 A	Silver	—	—	**5NEH5**
4	175 A	Silver	—	—	**5NEH4**
4 and 2	175 A	Silver	—	—	**5NEG3**
6	50 A	Silver	—	—	**5NEH3**
1/0	175 A	Silver	—	—	**5NEH6**
2/0	350 A	Silver	—	—	**5NEH7**
2/0	350 A	Silver	—	—	**5NEG5**
4/0	350 A	Silver	—	—	**5NEH8**

Grote The first name in vehicle safety systems. Westward

Booster Cable Connective Ends and Caps

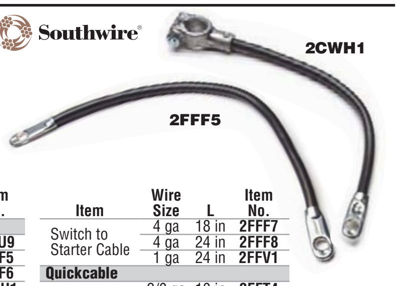
23PC34

Style	Gauge	Max. Amps	Color	Item No.
Westward				
Light-Duty Connector, Plug-In Style	12 ga to 10 ga	50A	Gray	**23PC31**
Medium-Duty Connector, Plug-In Style	2 ga	175A	Blue	**23PC37**
	1/0 ga	150A	Red	**23PC34**
Heavy-Duty Connector, Plug-In Style	2/0 ga	350A	Red	**23PC35**
	2/0 ga	350A	Gray	**23PC32**
Grote				
Plug-In Cap	—	50 A	Black	**2FGC3**
	—	175 A	Black	**2FFR7**
	—	350 A	Black	**2FGC4**

2FFR7

Grote The first name in vehicle safety systems. QuickCable Southwire

Battery Cables



2CWH1 2FFF5

- Resist water, grease, sunlight, and abrasion
- PVC jacket

Item	Wire Size	L	Item No.
Grote			
Switch to Starter Cable	1 ga	10 in	**2FFU9**
	4 ga	10 in	**2FFF5**
	4 ga	15 in	**2FFF6**
Battery Cable	4 ga	14 in	**2CWH1**
	4 ga	25 in	**2CWH3**
	4 ga	53 in	**2CWH5**
	4 ga	36 in	**2FFC6**
	4 ga	24 in	**2FFC8**
Switch to Starter Cable	4 ga	18 in	**2FFF7**
	4 ga	24 in	**2FFF8**
	1 ga	24 in	**2FFV1**
Quickcable			
Battery Cable Heavy Duty	2/0 ga	10 in	**2FFT4**
	2/0 ga	15 in	**2FFT5**
	2/0 ga	20 in	**2FFT6**
Southwire			
Battery Cable with Lugs	4 ga	19 in	**1YPG9**

Battery Jumper Cable

Westward

Wire Size	Max. Amps	L	Black Item No.	Red Item No.
2 ga	94 A	300 in	**19YD49**	**19YD76**
	94 A	1,200 in	**19YD50**	—
4 ga	60 A	300 in	**19YD46**	**19YD73**
6 ga	37 A	300 in	**19YD43**	**19YD70**
1/0 ga	150 A	300 in	**19YD55**	**19YD82**
2/0 ga	190 A	25 ft	—	**19YD85**
	190 A	100 ft	—	**19YD86**
	190 A	120 in	**19YD57**	—
	190 A	300 in	**19YD58**	—
	190 A	1,200 in	**19YD59**	—
3/0 ga	239 A	1,200 in	—	**19YD89**
4/0 ga	302 A	1,200 in	**19YD65**	—

19YD85

Cobra
793HX5

NOCO
60NH70

NOCO
417Y85

Schumacher Electric
444N20

Handheld Portable Jump Starters

These devices are compact enough to fit in a vehicle's glove box and can start a vehicle having a dead battery without the use of another car or power source. Starters provide a quick burst of power to the dead battery to start the vehicle. Once the vehicle's engine has started the alternator turns on to begin charging the dead battery.

Automatic/ Manual	For Battery Voltage	Boost Current @ Voltage	Cold Cranking Amps @ Voltage	Amp Hours	Cable Gauge	Cable Length	12V Port	USB Port	Led Light	Item No.
Cobra										
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Lithium-ion, Wet Cell										
Automatic	12 V DC	800 A @ 12V	—	—	—	12 in	No	2	Yes	**793HX5**
Duracell										
For Use With Battery Type: Lead Acid										
Automatic	12 V DC	1100 A @ 12V	1100 A @ 12V	—	—	24 in	No	1	Yes	**61NJ39**
NOCO										
For Use With Battery Type: AGM, EFB, Gel, Lead Acid, Wet Cell										
Automatic/Manual	12 V DC	1500 A @ 12V	—	—	—	23 in	No	1	Yes	**60NH70**
For Use With Battery Type: Lead Acid										
Automatic/Manual	12 V DC	500 A @ 12V	100 A @ 12V	400 Ah	16 ga	19 ½ in	No	1	Yes	**417Y82**
	12 V DC	1000 A @ 12V	100 A @ 12V	1,000 Ah	16 ga	19 ½ in	No	1	Yes	**417Y83**
	12 V DC	2000 A @ 12V	100 A @ 12V	2,000 Ah	16 ga	19 ½ in	No	1	Yes	**417Y84**
	12 V DC	3000 A @ 12V	100 A @ 12V	3,000 Ah	16 ga	19 ½ in	No	1	Yes	**417Y85**
Schumacher Electric										
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Wet Cell										
Automatic	12 V DC	1000 A @ 12V	225 A @ 12V	3.2 Ah	10 ga	15 in	1	2	Yes	**444N19**
	12 V DC	600 A @ 12V	300 A @ 12V	2.5 Ah	10 ga	15 in	No	2	Yes	**444N20**
	12 V DC	800 A @ 12V	—	3.1 Ah	8 ga	25 in	No	2	Yes	**444N21**

Associated Equip
11Z385

DSR Proseries
417Y97

Duracell
61NJ46

NOCO
464D89

Schumacher Electric
444N39

Westward
450G81

Portable Jump Starters and Power Stations

Jump starters are designed to start a vehicle having a dead battery without the use of another car or power source. They provide a quick burst of power to the dead battery to start the vehicle. Once the vehicle's engine has started the alternator turns on to begin charging the dead battery. Models can also fully charge a weak or dead battery.

For Use With Battery Type	For Battery Voltage	Boost Current @ Voltage	Charging Current @ Voltage	Cable Wire Gauge	Cable Length	110V Port	12V Port	USB Port	Led Light	Air Compressor	Mfr. Model	Item No.
Associated Equip												
Boosting												
AGM	12 V DC	1700 A @ 12V	0.5 A @ 12V	4 AWG	3 ft	No	2	1	Yes	No	6256	**36MW23**
AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell	12 V DC	1700 A @ 12V	0.5 A @ 12V	4 AWG	2.6 ft	No	2	1	Yes	No	MSK6211	**11Z385**
	12 V DC	1700 A @ 12V	0.6 A @ 12V	4 AWG	7 ft	No	1	1	No	No	KS401	**49Z422**
	12 V DC	1700 A @ 12V	0.6 A @ 12V	4 AWG	3 ft	No	1	1	No	No	KS400	**36MW21**
	12 V DC, 24 V DC	3400A @ 12V, 720 A @ 24V	0.5 A @ 12V	4 AWG	3.8 ft	No	2	No	Yes	No	6296	**36MW25**
DSR Proseries												
Boosting												
AGM, Deep Cycle, Gel, Lead Acid, Wet Cell	12 V DC	280 A @ 12V	0.3 A @ 12V	4 AWG	28 in	No	1	No	No	No	DSR119	**417Z01**
	12 V DC	500 A @ 12V	0.3 A @ 12V	4 AWG	5.2 ft	No	1	No	No	No	DSR141	**60JJ15**
	12 V DC	525 A @ 12V	0.3 A @ 12V	4 AWG	5 ft	No	1	1	No	No	DSR114	**417Y95**
	12 V DC	525 A @ 12V	0.3 A @ 12V	4 AWG	5 ft	2	1	1	No	No	DSR116	**417Y97**
	12 V DC	1700 A @ 12V	0.3 A @ 12V	4 AWG	20 in	No	1	2	No	No	DSR128	**444N23**
	12 V DC, 24 V DC	475 A @ 24V, 750 A @ 12V	0.3 A @ 12V	4 AWG	5 ft	No	1	1	No	No	DSR115	**417Y96**
AGM, Lead Acid, Lithium	12 V DC	1200 A @ 12V	0.3 A @ 12V	6 AWG	6 ft	No	No	No	No	No	DSR132	**54ZH27**
Duracell												
Boosting, Charging												
Lead Acid	12 V DC	600 A @ 12V	—	6 AWG	24 in	No	1	1	Yes	No	DRJS10A	**61NJ40**
	12 V DC	750 A @ 12V	—	6 AWG	24 in	No	1	1	Yes	No	DRJS20	**61NJ41**
	12 V DC	750 A @ 12V	—	6 AWG	24 in	No	1	1	Yes	Yes	DRJS20C	**61NJ43**
	12 V DC	900 A @ 12V	—	6 AWG	24 in	No	1	1	Yes	No	DRJS30	**61NJ42**
	12 V DC	900 A @ 12V	—	6 AWG	24 in	No	1	1	Yes	Yes	DRJS30C	**61NJ44**
	12 V DC	1100 A @ 12V	12 A @ 12V	6 AWG	24 in	2	1	2	Yes	Yes	DR300PWR	**61NJ45**
	12 V DC	1300 A @ 12V	18 A @ 12V	6 AWG	24 in	2	1	2	Yes	Yes	DR1300PWR	**61NJ46**
NOCO												
Boosting												
AGM, EFB, Gel, Lead Acid, Wet Cell	12 V DC, 24 V DC	6250 A @ 12V	—	2 AWG	24 in	No	1	2	Yes	No	GB500	**464D89**
Schumacher Electric												
Boosting												
AGM, Deep Cycle, Gel, Lead Acid, Wet Cell	12 V DC	600 A @ 12V	0.3 A @ 12V	8 AWG	28 in	No	1	1	Yes	No	SJ1329	**444N37**
	12 V DC	800 A @ 12V	0.3 A @ 12V	8 AWG	30 in	No	1	1	Yes	Yes	SJ1331	**444N38**
	12 V DC	1000 A @ 12V	0.3 A @ 12V	8 AWG	24 in	2	2	2	Yes	Yes	SJ1332	**444N39**
Westward												
Boosting, Charging												
AGM	12 V DC	350 A @ 12V	1.5 A @ 12V	4 AWG	36 in	No	1	No	No	No	490P77	**490P77**
	12 V DC, 24 V DC	2000 A @ 12V, 2000 A @ 24V	—	2 AWG	50 in	No	1	No	No	No	3LE86	**3LE86**
Lead Acid	12 V DC	720 A @ 12V	0.55 A @ 12V	4 AWG	42 in	No	1	No	Yes	Yes	450G81	**450G81**
	12 V DC	3400 A @ 12V	1.1 A @ 12V	2 AWG	6 ft	No	No	No	No	No	450G82	**450G82**
	12 V DC, 24 V DC	1700 A @ 24V, 3400 A @ 12V	1.1 A @ 12V	2 AWG	6 ft	No	No	No	No	No	450G83	**450G83**

14N886

16W542

Solar Battery Maintainer, Charger Maintainers, and Controller

Use to help keep 12V lead-acid batteries fully charged without the need for electricity. The maintainer can operate under most weather conditions and even when skies are cloudy. 14N888 built-in blocking diode helps protect against battery discharge at night and includes a 16W542 controller that protects batteries against overcharge and discharge while being charged from a solar panel, and to automatically assure a full charge.

Charge Type	Amps	Automatic/ Manual	Mfr. Model	Item No.
Battery Charge Maintainer				
Manual On/Off	138mA	Manual	SP-200	**14N886**
Charger Maintainer				
Manual On/Off	260mA	Manual	SP-400	**14N887** *
Charger Maintainer with SPC-7A Controller				
Smart	850mA	Automatic	SP-1500	**14N888**
Charge Controller				
—	Up to 7A of Solar Array Current	Automatic	SPC-7A	**16W542**

** Solar Charge Controller 16W542 recommended, sold separately.*

For Use With Battery Type	For Battery Voltage	Charging Current @ Voltage	Maintaining Current @ Voltage	Charge Type	Cable Length	Power Cord Length	Item No.
ATEC							
Maintaining							
AGM, Deep Cycle, EFB, Gel, Lead Acid	6 V DC, 12 V DC	1 A @ 12V, 1 A @ 6V	0.9 A @ 12V, 0.9 A @ 24V, 0.9 A @ 6V	Float	12 ft	10 ft	49Z420
	12 V DC	1.5 A @ 12V	1.5 A @ 12V, 1.5 A @ 24V, 1.5 A @ 6V	Float	6 ft	6 ft	49Z421
Battery Doctor							
Charging, Maintaining							
AGM, Deep Cycle, Gel, Lead Acid, Wet Cell	6 V DC, 12 V DC	2 A @ 12V, 2 A @ 6V	2 A @ 12V, 2 A @ 6V	Smart	8 ft	7 ft	48VF13
	12 V DC	4A @ 12V	4 A @ 12V	Smart	6.5 ft	6 ft	48VF11
	12 V DC	1.25A @ 12V	1.25 A @ 12V	Smart	8 ft	7 ft	48VF15
Battery Tender							
Charging, Maintaining							
AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell	12 V DC	0.75 A @ 12V	1.25 A @ 12V	Float	6 ft	6 ft	54ZU11
AGM, Deep Cycle, Gel, Lead Acid, Wet Cell	6 V DC, 12 V DC	3 A @ 6V, 3 A @ 12V	3 A @ 12V, 3 A @ 6V	—	24 in	—	60HW86
AGM, Gel, Lithium, Wet Cell	12 V DC, 24 V DC	5 A @ 12 V, 2.5 A @ 24 V	—	—	18 in	—	60HW85
AGM, Lead Acid, Wet Cell	12 V DC	0.8 A @ 12V	0.80 A @ 12V	Smart	54 in	6 ft	10W824
	12 V DC	5 A @ 12V	5 A @ 12V	Float	54 in	6 ft	10W832
DSR Proseries							
Charging, Maintaining							
AGM, Gel, Lead Acid	12 V DC	10 A @ 12V	2 A @ 12V	Smart	24 in	—	417Y98
Duracell							
Charging, Maintaining							
AGM, Gel, Lead Acid	6 V DC, 12 V DC	1 A @ 12V, 1 A @ 6V	1 A @ 12V, 1 A @ 6V	Float	8 ft	—	61NJ48
	6 V DC, 12 V DC	1 A @ 6V, 2 A @ 12V	1 A @ 6V, 2 A @ 12V	Smart	11.5 ft	—	61NJ49
	6 V DC, 12 V DC	1 A @ 6V, 4 A @ 12V	1 A @ 6V, 4 A @ 12V	Smart	11.5 ft	—	61NJ50
Maintaining							
AGM, Gel, Lead Acid	12 V DC	0.8 A @ 12V	0.8 A @ 12V	—	6.2 ft	—	61NJ57
NOCO							
Charging, Maintaining							
AGM, Deep Cycle, EFB, Gel, Lead Acid, Lithium, Wet Cell	6 V DC, 12 V DC	1 A @ 12V, 1 A @ 6V	1 A @ 12V, 1 A @ 6V	Auto On/Off	8.8 ft	—	60NH65
	6 V DC, 12 V DC	2 A @ 12V, 2 A @ 6V	2 A @ 12V, 2 A @ 6V	Auto On/Off	6.4 ft	6 ft	60NH66
	6 V DC, 12 V DC	5 A @ 12V, 5 A @ 6V	5 A @ 12V, 5 A @ 6V	Auto On/Off	6.4 ft	6 ft	60NH68
	6 V DC, 12 V DC	10 A @ 12V, 10 A @ 6V	10 A @ 12V, 10 A @ 6V	Auto On/Off	8.8 ft	6 ft	60NH69
	12 V DC	2 A @ 12V	2 A @ 12V	Auto On/Off	24 in	24 in	60NH67

ATEC 49Z420

Battery Doctor 48VF15

Battery Tender 10W824

DSR Proseries 417Y98

Duracell 61NJ50

NOCO 60NH68

ASSOCIATED Battery DOCTOR Battery Tender DSR DURACELL NOCO

Handheld Portable Battery Chargers

These compact battery chargers are easily stowed in a vehicle when not in use. They can fully charge a vehicle battery and then maintain it at the proper storage voltage.

Charging—The charger allows a weak or dead battery to be become fully charged. The charging procedure may take several hours to complete.

Maintaining—In this mode the charger detects when a battery drops below a certain threshold and then supplies a very low-amperage charge to the battery. Ideal for vehicle batteries that are used infrequently.

Mounted Battery Chargers

ASSOCIATED Battery DOCTOR WESTWARD

These chargers are wall mountable and plug into a wall outlet to charge up to four batteries at once. LED indicators show when batteries are completely charged. Automatic current selection adjusts to the battery capacity.

Maintaining—Charger detects when a battery drops below a certain threshold and then supplies a very low-amperage charge to the battery. Suitable for vehicle batteries that are used infrequently.

Charging—In this mode the charger allows a weak or dead battery to be become fully charged. The charging procedure may take several hours to complete.

ATEC 49Z419

Battery Doctor 34UH61

Westward 5RXF0

For Use With Battery Type	For Battery Voltage	Charging Current @ Voltage	Maintaining Current @ Voltage	Charge Type	Cable Length	Power Cord Length	W	H	D	Item No.
ATEC										
Maintaining										
For Use With Battery Type: AGM, Deep Cycle, EFB, Gel, Lead Acid	12 V DC	1.5 A @ 12V	1.5 A @ 12V	Float	15 in	12 in	1 ½ in	7 in	9 in	49Z419
Battery Doctor										
Charging, Maintaining										
For Use With Battery Type: AGM, Deep Cycle, Gel, Lead Acid, Wet Cell	6 V DC, 12 V DC	1.5 A @ 12V, 1.5A @ 6V	1.5 A @ 12V, 1.5 A @ 6V	Smart	6 ft	10 ft	5 in	3 ½ in	1 ½ in	34UH62
	6 V DC, 12 V DC	0.9 A @ 12V, 0.9 A @ 6V	0.9A @ 12V, 0.9A @ 6V	Float	12 ft	6 ft	2 ⅝ in	4 ⅛ in	1 ½ in	34UH61
	12 V DC	2 A @ 12V	2 A @ 12V	Smart	12 ft	—	2 ½ in	4 ½ in	1 ⅜ in	48VF12
	12 V DC, 24 V DC	8 A @ 12V, 8 A @ 24V	4 A @ 24V, 8 A @ 12V	Smart	6.5 ft	6 ft	4 ½ in	7 ½ in	2 ½ in	48VF14
Westward										
Charging										
For Use With Battery Type: AGM, Gel, Lead Acid	24 V DC	5 A @ 24V	2 A @ 24V	Float	6 ft	6 ft	4 in	8 in	2 ½ in	5RXF0

Bank Charging Stations

Battery Tender DSR Schumacher Electric

Designed to simultaneously charge and/or maintain multiple 12V batteries with independent charging banks.

Charging—Allows a weak or dead battery to be become fully charged. The charging process may take several hours to complete.

Maintaining—Detects when a battery drops below a certain threshold and then supplies a very low-amperage charge to the battery. Used to help maintain the charge for vehicle batteries that are used infrequently.

Battery Tender 10W831

DSR Proseries 483R51

Schumacher Electric 54ZH29

Description	For Use With Battery Type	For Battery Voltage	Charging Current @ Voltage	Maintaining Current @ Voltage	Charge Type	Cable Length	Power Cord Length	Includes	Item No.
Battery Tender									
Charging, Maintaining									
2-Bank	AGM, Lead Acid, Wet Cell	12 V DC	1.25 A @ 12V	1.25 A @ 12V	Smart	54 in	6 ft	Alligator Clips, Quick Disconnect Rings	10W828
4-Bank		12 V DC	1.25 A @ 12V	1.25 A @ 12V	Smart	54 in	6 ft	(4) Quick Disconnect Rings and (4) Alligator Clips	10W829
5-Bank		6 V DC, 12 V DC	4 A @ 12V	4 A @ 12V	Smart	54 in	6 ft	Clamps	10W830
10-Bank		6 V DC, 12 V DC	4 A @ 12V	4 A @ 12V	Smart	7.5 ft	6 ft	(10) Alligator Clips with 7.5 ft Cable	10W831
DSR Proseries									
Charging									
4-Bank	AGM, Deep Cycle, Gel, Lead Acid, Lithium	6 V DC, 12 V DC	10 A @ 12V, 10 A @ 6V	2 A @ 12V, 2 A @ 6V	Smart	24 in	3 ft	DSR125 4-Bank Charging Station	54ZH28
8-Bank	AGM, Deep Cycle, Gel, Lithium	6 V DC, 12 V DC	12 A @ 12V, 24 A @ 12V	2 A @ 12V	Manual On/Off	24 in	12 ft	(8) Detachable Cables with 75 A Battery Clamps	483R51
Schumacher Electric									
Charging									
3-Bank	AGM, Deep Cycle, Gel, Lead Acid	12 V DC	15 A @ 12V	2 A @ 12V	Float	6 ft	6 ft	(3) Ring Terminals	54ZH29

Associated Equip
40GL81

ATEC
45RK38

Battery Tender
54ZU13

DSR Proseries
60TD77

NOCO
417Y70

Schumacher Electric
444N34

Westward
1JYU6

Benchtop Battery Chargers

These chargers are portable and can boost, charge, and maintain batteries in cars, light- and medium-duty trucks, and tractors with 6V systems.

Boosting—Provides high-amperage power for starting a the vehicle if the battery has enough power to turn the engine over, but not sufficient to start the vehicle's engine.

Charging—Allows a weak or dead battery to be become fully charged. The charging procedure may take several hours to complete.

Maintaining—Detects when a battery drops below a certain threshold and then supplies a very low-amperage charge to the battery. Used for vehicle batteries that are used infrequently.

For Use With Battery Type	For Battery Voltage	Charging Current @ Voltage	Maintaining Current @ Voltage	Boost Current @ Voltage	Charge Type	Cable Length	Power Cord Length	W	H	D	Item No.
Associated Equip											
Boosting, Charging											
Deep Cycle, Lead Acid	6 V DC, 12 V DC, 24 V DC	30 A @ 12V, 30A @ 24V, 30A @ 6V, 60 A @ 12V, 60A @ 24V, 60A @ 6V	—	230 A @ 12V, 230 A @ 24V, 230 A @ 6V	Timer	7 ft	6 ½ ft	16 in	17 in	17 in	**40GL81**
Charging											
AGM, Deep Cycle, EFB, Gel, Lead Acid	12 V DC	40 A @ 12V	14.4 A @ 12V	130 A @ 12V	Smart	6.5 ft	6 ft	12 in	12 ½ in	11 ¼ in	**29RW13**
	12 V DC	20 A @ 12V	20 A @ 14.9V	—	Smart	6 ft	6 ½ ft	19 in	16 in	19 in	**52NU31**
AGM, EFB, Gel	12 V DC	30 A @ 12V, 60 A @ 12V	30 A @ 12V, 60 A @ 12V	—	Smart	6.5 ft	6 ½ ft	16 in	19 in	16 in	**40GL86**
Charging, Maintaining											
AGM, Deep Cycle, EFB, Gel, Lead Acid, Lithium	12 V DC	100A @ 12V	100A @ 12V	100 A @ 12V	Smart	8.5 ft	8 ft	19 in	9 ¼ in	13 ¾ in	**788WK0**
ATEC											
Charging											
AGM, Gel, Wet Cell	6 V DC, 12 V DC	10 A @ 12V, 10 A @ 6V, 4 A @ 12V, 4 A @ 6V	2 A @ 12V, 2 A @ 6V	50 A @ 6V, 50 A @ 12V	Smart	6.5 ft	6 ft	10 ½ in	5 ½ in	10 ½ in	**45RK38**
	6 V DC, 12 V DC	15 A @ 12V, 8 A @ 6V	2 A @ 12V, 2 A @ 6V	100 A @ 12V, 100 A @ 6V	Smart	6.5 ft	6 ft	10 ½ in	5 ½ in	10 ½ in	**45RK40**
Battery Tender											
Boosting, Charging, Maintaining											
AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell	12 V DC	1.25 A @ 12V	1.25 A @ 12V	20 A @ 12V	Smart	6 ft	6 ft	3 in	8 in	11 in	**54ZU13**
DSR Proseries											
Boosting											
Lead Acid	12 V DC	20 A @ 12V	4 A @ 12V	70 A @ 12V	Smart	24 in	9 ft	17 ¾ in	5 9/16 in	17 ⅞ in	**417Z02**
Boosting, Charging, Maintaining											
AGM, Deep Cycle, Lead Acid	6 V, 12 V	—	—	—	—	12 ft	—	10 in	6 ⅛ in	11 ⅞ in	**60TD77**
NOCO											
Boosting											
AGM, EFB, Gel, Lead Acid, Wet Cell	12 V DC, 24 V DC	—	—	6250 A @ 12V	Auto On/Off	24 in	14 in	12 19/64 in	6 19/64 in	8 13/64 in	**464D89**
Charging											
AGM, Deep Cycle, Gel, Lead Acid, Lithium, Wet Cell	24 V DC	40 A @ 24V	40 A @ 24V	40 A @ 24V	Smart	6.3 ft	6 ⅓ ft	8 ½ in	3 15/16 in	12 in	**417Y68**
	48 V DC	20 A @ 48V	20 A @ 48V	20 A @ 48V	Smart	6.3 ft	6 ⅓ ft	8 ½ in	3 15/16 in	12 in	**417Y70**
Schumacher Electric											
Boosting, Charging, Maintaining											
AGM, Deep Cycle, Lead Acid	6 V DC, 12 V DC	20 A @ 12V	2 A @ 12V	30 A @ 12V, 30 A @ 6V	Float	24 in	7 ft	10 ⅜ in	10 ⅞ in	7 ⅛ in	**444N34**
	6 V DC, 12 V DC	30 A @ 12V	2 A @ 12V	30 A @ 12V, 30 A @ 6V	Float	24 in	7 ft	10 ⅜ in	10 ⅞ in	7 ⅛ in	**444N35**
AGM, Lead Acid	12 V DC	10 A @ 12V	2 A @ 12V	50 A @ 12V	Float	24 in	7 ft	11 ⅛ in	10 ½ in	5 ½ in	**444N33**
Charging, Maintaining											
AGM, Deep Cycle, Lead Acid	6 V DC, 12 V DC	6 A @ 12V	2 A @ 12V	—	Float	24 in	7 ft	8 in	9 ⅜ in	3 ⅞ in	**444N32**
	6 V DC, 12 V DC	15 A @ 12V, 15 A @ 6V	2 A @ 12V, 2 A @ 6V	10 A @ 12V	Smart	24 in	7 ft	10 ½ in	7 ¾ in	3 ⅝ in	**444N36**
	6 V DC, 12 V DC	3 A @ 12V, 3 A @ 6V	2 A @ 12V, 2 A @ 6V	—	Float	24 in	7 ft	3 in	8 ⅜ in	7 ⅝ in	**444N30**
AGM, Lead Acid, Lithium	12 V DC	6 A @ 12V	2 A @ 12V	—	Float	24 in	7 ft	8 ⅛ in	9 ⅜ in	3 ⅞ in	**444N31**
Maintaining											
AGM, Deep Cycle, Lead Acid	6 V DC, 12 V DC	1.5 A @ 12V, 1.5A @ 6V	1.5 A @ 12V, 1.5 A @ 6V	—	Float	24 in	7 ft	7 ¼ in	5 ¼ in	3 ½ in	**444N27**
	6 V DC, 12 V DC	1.5 A @ 12V	1.5 A @ 12V	—	Float	24 in	12 in	5 ⅞ in	9 in	2 in	**444N28**
Westward											
Boosting, Charging											
AGM, Deep Cycle, Lead Acid	6 V DC, 12 V DC	10 A @ 12V, 10 A @ 6V	2 A @ 12V	55 A @ 12V	Auto On/Off	6 ft	6 ft	9 ½ in	5 in	6 ½ in	**1JYU8**
	6 V DC, 12 V DC	15 A @ 12V, 15 A @ 6V	2 A @ 12V	100 A @ 12V	Auto On/Off	6 ft	6 ft	9 ½ in	5 in	6 ½ in	**1JYU9**
AGM, Lead Acid	6 V DC, 12 V DC	15 A @ 12V, 15 A @ 6V	2 A @ 12V	100 A @ 12V	Auto On/Off	6 ft	6 ft	9 ½ in	5 in	6 ½ in	**1JYU6**
Boosting, Charging, Maintaining											
AGM, Lead Acid	6 V DC, 12 V DC	30 A @ 12V, 30 A @ 6V	2 A @ 12V, 6A @ 6V	150 A @ 12V	Auto On/Off	6 ft	6 ft	10 ½ in	6 ½ in	9 ½ in	**473X78**
Charging											
AGM, Deep Cycle, Gel, Lead Acid	6 V DC, 12 V DC, 24 V DC	10 A @ 12V, 10 A @ 24V, 10 A @ 6V, 20 A @ 12V, 20 A @ 6V	2 A @ 12V, 2 A @ 24V, 2 A @ 6V, 5 A @ 24V	—	Float	6 ft	6 ft	10 in	5 in	6 in	**5RXF1**
Charging, Maintaining											
AGM, Lead Acid	6 V DC, 12 V DC	6 A @ 12V, 6 A @ 6V	2 A @ 12V, 6 A @ 12V	—	Auto On/Off	6 ft	6 ft	9 ½ in	5 in	6 ½ in	**473X80**
	12 V DC, 24 V DC	10 A @ 12V, 5 A @ 24 V	5 A @ 24V	—	Auto On/Off	6 ft	6 ft	9 ½ in	5 in	6 ½ in	**473X79**

Wheeled Battery Chargers

Provide battery charging and maintenance to help keep fleet vehicles powered up and ready to drive. Chargers are wheeled and have a handle to ease transport from different locations and ease maneuverability over uneven surfaces or on the shop floor.

Boosting—Provides high-amperage power to start the vehicle if the battery has enough power to turn the engine over, but not sufficient to start the engine.

Charging—Allows a weak or dead battery to be become fully charged. The procedure may take several hours to complete.

Maintaining—Detects when a battery drops below a certain threshold and then supplies a very low-amperage charge to the battery. Suitable for vehicle batteries that are used infrequently.

Associated Equip
55CN48

DSR Proseries
485C83

Westward
473X76

Schumacher Electric
444N26

For Use With Battery Type	For Battery Voltage	Boost Current @ Voltage	Charging Current @ Voltage	Maintaining Current @ Voltage	Charge Type	Cable Length	Power Cord Length	Includes	Item No.
Associated Equip									
Boosting									
AGM, Wet Cell	12 V DC	1100 A @ 12V	10 A @ 12V	—	Manual On/Off	8 ft	6 ½ ft	Clamp Bar for Clamp Storage	**40GL85**
Boosting, Charging									
AGM, EFB, Lead Acid	6 V DC, 12 V DC	250 A @ 12V	60 A @ 12V, 70 A @ 6V	60 A @ 12V, 70 A @ 6V	Timer	—	—	Clamp Bar for Clamp Storage	**55CN46**
	6 V DC, 12 V DC, 24 V DC	280 A @ 12V	30 A @ 24V, 65 A @ 12V, 70 A @ 6V	30A @ 24V, 65A @ 15.5V, 70 A @ 6V	Timer	—	—	Clamp Bar for Clamp Storage	**55CN44**
AGM, EFB, LED Acid	6 V DC, 12 V DC	265 A @ 12V	60 A @ 12V, 70 A @ 6V	60 A @ 12V, 70 A @ 6V	Timer	—	—	Clamp Bar for Clamp Storage, Stop/Go Light for Polarity Indication	**55CN45**
Deep Cycle, Lead Acid	6 V DC, 12 V DC	375 A @ 12V, 375 A @ 6V	100 A @ 6V, 75 A @ 12V	—	Timer	8 ft	10 ft	Clamp Bar for Clamp Storage, Protective Gauge Cover, Stop/Go Light for Polarity Indication	**29RV90**
	6 V DC, 12 V DC, 18 V DC, 24 V DC	400 A @ 12V	100 A @ 6V, 40 A @ 24V, 50 A @ 18V, 80 A @ 12V	—	Timer	8 ft	10 ft	Clamp Bar for Clamp Storage, Protective Gauge Cover, Stop/Go Light for Polarity Indication	**11Z379**
Boosting, Charging, Maintaining									
AGM, Deep Cycle, EFB, Gel, Lead Acid	12 V DC	270 A @ 12V	60 A @ 12V	14.4 A @ 12V	Smart	6 ft	6 ft	Clamp Bar for Clamp Storage	**29RV97**
	12 V DC	270 A @ 12V	60 A @ 12V	15 A @ 12V	Smart	6 ft	6 ft	15A Memory Saver Port and OBDII Cable, Clamp Bar for Clamp Storage, Dead Battery Override Control	**29RV98**
	12 V DC, 24 V DC	270 A @ 12V, 270 A @ 24V	30 A @ 24V, 70 A @ 12V	70 A @ 14.8V	Smart	6 ft	6 ft	Clamp Bar for Clamp Storage, Dead Battery Override Control	**29RW19**
	12 V DC, 24 V DC	200 A @ 12V, 200 A @ 24V	30 A @ 24V, 70 A @ 12V	70 A @ 14.8V	Smart	6 ft	6 ft	Clamp Bar for Clamp Storage, Dead Battery Override Control, Quick Disconnect DC Leads Change to 13 ft Leads with NATO Plug	**45RK19**
AGM, Deep Cycle, EFB, Gel, Lithium	12 V DC	270 A @ 12V	60 A @ 12V	60 A @15.5 V	Smart	—	6 ft	Adjustable Voltage Re-Flash Mode, Clamp Bar for Clamp Storage	**55CN47**
	12 V DC	270 A @ 12V	60 A @ 12V	60 A @15.5 V	Smart	—	6 ft	20 A Memory Saver Port and OBDII Cable, Adjustable Voltage Re-Flash Mode, Polarity Indicated and Polarity Protected with Audible Alarm	**55CN48**
Deep Cycle, Lead Acid	6 V DC, 12 V DC	200 A @ 12V, 200 A @ 6V	10 A @ 12V, 40 A @ 12V, 40 A @ 6V	14.4 A @ 12V	Timer	6.5 ft	6 ft	Clamp Bar for Clamp Storage	**29RV96**
Charging									
AGM, Deep Cycle, EFB, Gel, Lead Acid	12 V DC	130 A @ 12V	45 A @ 12V	45 A @ 12V	Smart	6 ft	6 ft	Clamp Bar for Clamp Storage, Dead Battery Override Control	**29RV91**
AGM, Wet Cell	12 V DC	1100 A @ 12V	10 A @ 12V	—	—	8 ft	6 ½ ft	Clamp Bar for Clamp Storage	**11Z387**
DSR Proseries									
Boosting, Charging, Maintaining									
AGM, Deep Cycle, Gel	6 V DC, 12 V DC	50 A @ 12V, 50 A @ 6V	6 A @ 12V, 6 A @ 6V	0.14 A @ 13.2V	Float	24 in	6 ft	(4) Cable Clamp Cleats	**485C79**
	6 V DC, 12 V DC	50 A @ 12V	125 A @ 6V, 15 A @ 6V, 15A @ 12V, 275 A @ 12V	4 A @ 12V	Float	17 ft	9 ft	(4) Cable Clamp Cleats, Memory Saver Cable	**485C81**
	6 V DC, 12 V DC, 24 V DC	50 A @ 6V, 50 A @ 12V	30 A @ 24V, 15 A @ 6V, 15 A @ 12V	4 A @ 12V	Float	17 ft	9 ft	(4) Cable Clamp Cleats, Memory Saver Cable	**485C83**
	12 V DC	50 A @ 12V	20 A @ 12V	4 A @ 12V	Float	17 ft	9 ft	(4) Cable Clamp Cleats	**485C80**
	12 V DC, 24 V DC	150 A @ 24V, 250 A @ 12V	50 A @ 12V	4 A @ 12V	Float	17 ft	9 ft	(4) Cable Clamp Cleats	**485C82**
Charging									
AGM, Gel, Lead Acid	6 V DC, 12 V DC	25 A @ 12V, 25 A @ 6V, 50 A @ 12V	10 A @ 12V	—	Timer	6 ft	6 ft	—	**60JJ13**
	12 V DC, 24 V DC	25 A @ 12V, 25 A @ 24V, 50 A @ 12V	10 A @ 12V	—	Timer	6 ft	6 ft	—	**60JJ14**
Schumacher Electric									
Boosting, Charging									
AGM, Deep Cycle, Lead Acid	6 V DC, 12 V DC	40 A @ 12V, 40 A @ 6V	2 A @ 12V, 6 A @ 12V	2 A @ 12V	Float	24 in	7 ft	—	**444N26**
Charging									
AGM, Deep Cycle, Gel	6 V DC, 12 V DC	25 A @ 12V, 25 A @ 6V, 50 A @ 12V	10 A @ 12V	—	Manual On/Off	6 ft	6 ft	—	**60JJ11**
	6 V DC, 12 V DC	20 A @ 12V, 20 A @ 6V, 40 A @ 12V	10 A @ 12V	—	Manual On/Off	6 ft	6 ft	—	**60JJ12**
	12 V DC	25 A @ 12V	6 A @ 12V	—	Manual On/Off	6 ft	6 ft	—	**60JJ10**
Westward									
Boosting, Charging, Maintaining									
AGM, Lead Acid	6 V DC, 12 V DC	130 A @ 6V, 200 A @ 12V	20 A @ 12V, 40 A @ 12V, 40 A @ 6V	40 A @ 12V, 40 A @ 6V	Auto On/Off	6 ft	6 ft	Alligator Clips	**473X75**
	6 V DC, 12 V DC	185 A @ 6V, 250 A @ 12V	60 A @ 12V, 60 A @ 6V	60 A @ 12V, 60 A @ 6V	Auto On/Off	6 ft	6 ft	Alligator Clips	**473X76**
	6 V DC, 12 V DC, 24 V DC	160 A @ 6V, 225 A @ 12V	30 A @ 24V, 60 A @ 12V, 60 A @ 6V	40 A @ 12V, 40 A @ 6V	Auto On/Off	6 ft	6 ft	Alligator Clips	**473X77**

5URF3

26W999

60JT92

45MR75

61NJ53

45MR76

45TX26

45MR89

Power Inverters

These inverters convert direct current (DC) input from a vehicle's battery into an alternating current (AC) output for use to charge devices in a vehicle like a cellphone or portable computer. They also have built-in, low-battery alarms and shutdowns.

Modified Sine Wave—Suitable for use in charging equipment that is less sensitive to power fluctuations such as lights and some tools.

Pure Sine Wave—Deliver high quality electric current similar to utility standards and suitable for use with most electronic devices such as a cell phones or portable computers.

Continuous Output Power	Peak Output Power	Input Voltage	Output Voltage	Output Frequency	Number of Standard USB Ports	Number of Standard USB Ports	Outlet Type	Brand	Item No.
Modified Sine Wave									
12V Aux. Port									
20 W	40 W	12V DC	115V AC	58 to 62 Hz	1	1	2-Prong Outlet	Mobilespec	**493W90**
100 W	200 W	12V DC	115V AC	59 to 61 Hz	1	1	Standard 3-Prong Outlet	Westward	**26X005**
	200 W	12V DC	115V AC	57 to 63Hz	1	1	Standard 3-Prong Outlet	Westward	**54DC41**
120 W	240 W	12V DC	120V AC	60 Hz	1	1	Standard 3-Prong Outlet	Mobilespec	**493W86**
130 W	260 W	12V DC	115V AC	60 Hz	1	1	Standard 3-Prong Outlet	Duracell	**61NJ55**
140 W	280 W	10.5 to 15.5V DC	120V AC	60 Hz	1	1	Standard 3-Prong Outlet	Schumacher Electric	**5URF3**
150 W	300 W	12V DC	120V AC	60 Hz	—	—	NEMA 5-15R	Tundra	**45MR72**
	300 W	11 to 15V DC	115V AC	60 Hz	2	2	Standard 3-Prong Outlet	Duracell	**61NJ56**
175 W	350 W	12V DC	115V AC	58 to 62 Hz	1	1	Standard 3-Prong Outlet	Mobilespec	**493W89**
200 W	400 W	12V DC	115V AC	57 to 63Hz	1	1	Standard 3-Prong Outlet	Westward	**54DC42**
400 W	800 W	12V DC	115V AC	57 to 63Hz	1	1	Standard 3-Prong Outlet	Westward	**54DC43**
12V Aux. Port and Battery Clamps									
320 W	400 W	12V DC	115V AC	60 Hz	1	1	Standard 3-Prong Outlet	Duracell	**61NJ51**
350 W	700 W	12V DC	120V AC	60 Hz	—	—	NEMA 5-15R	Tundra	**45MR73**
400 W	800 W	12V DC	115V AC	58 to 62 Hz	1	1	Standard 3-Prong Outlet	Westward	**26W999**
800 W	1,600 W	12V DC	115V AC	60 Hz	1	1	Standard 3-Prong Outlet	Duracell	**61NJ52**
Battery Clamps									
600 W	1,200 W	12V DC	115V AC	57 to 63Hz	1	1	Standard 3-Prong Outlet	Westward	**45NC48**
750 W	1,500 W	12V DC	115V AC	59 to 61 Hz	1	1	Standard 3-Prong Outlet	Westward	**26X001**
800 W	1,600 W	12V DC	115V AC	57 to 63Hz	1	1	Standard 3-Prong Outlet	Westward	**54DC44**
(2) Bolt-Down Terminals									
1,800 W	3,600 W	12V DC	120V AC	60 Hz	—	—	(2) GFCI	Tripp Lite	**6RHW6**
2,000 W	4,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tripp Lite	**6LM57**
2,400 W	4,800 W	24V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tripp Lite	**5JK24**
Terminal Blocks									
410 W	820 W	10.5 to 15.5V DC	120V AC	60 Hz	1	1	(2) NEMA 5-15R	Schumacher Electric	**5URF4**
500 W	1,000 W	13V DC	115V AC	60 Hz	2	2	(2) GFCI	Cobra	**60JT92**
600 W	1,200 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**482J26**
760 W	1,520 W	10.5 to 15.5V DC	120V AC	60 Hz	1	1	(2) NEMA 5-15R	Schumacher Electric	**5URF5**
1,000 W	2,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR75**
	1,000 W	—	—	—	1	1	Standard 3-Prong Outlet	Power Drive	**52YF64**
1,200 W	2,400 W	12V DC	115V AC	60 Hz	1	1	Standard 3-Prong Outlet	Duracell	**61NJ53**
1,250 W	1,250 W	12VDC	115VAC	—	—	—	Standard 3-Prong Outlet	Tripp Lite	**1ZE20**
1,500 W	3,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR76**
	3,000 W	13V DC	115V AC	60 Hz	2	2	(4) GFCI	Cobra	**60JT89**
2,000 W	4,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR77**
2,500 W	5,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R, Hardwired	Tundra	**45MR78**
	5,000 W	24V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R, Hardwired	Tundra	**45MR80**
	5,000 W	10.5 to 17V DC	120V AC	60 Hz	0	0	Standard 3-Prong Outlet	Aims Power	**45TX26**
	5,000 W	13V DC	115V AC	60 Hz	2	2	(4) GFCI	Cobra	**60JT90**
3,000 W	6,000 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R, Hardwired	Tundra	**45MR79**
	6,000 W	24V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R, Hardwired	Tundra	**45MR81**
	6,000 W	12V DC	120V AC	60 Hz	—	—	(4) GFCI	Tripp Lite	**4HHH7**
5,000 W	10,000 W	10 to 15V DC	120V AC	60 Hz	0	0	Standard 3-Prong Outlet	Aims Power	**45TX23**
7,000 W	14,000 W	20 to 30V DC	247V AC	50/60 Hz	0	0	Hardwired	Aims Power	**45TX21**
Pure Sine Wave									
Terminal Blocks									
300 W	600 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR82**
400 W	800 W	10 to 15V DC	115V AC	60 Hz	2	2	(2) GFCI	Cobra	**60JT91**
600 W	1,200 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR83**
1,200 W	2,400 W	12V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R	Tundra	**45MR84**
1,500 W	3,000 W	38 to 62V DC	120V AC	60 Hz	1	1	Standard 3-Prong Outlet	Aims Power	**45TX20**
1,800 W	3,600 W	12V DC	120V AC	60 Hz	—	—	Hardwired, NEMA 5-15R	Tundra	**45MR85**
2,500 W	5,000 W	12V DC	120V AC	60 Hz	—	—	Hardwired, NEMA 5-15R	Tundra	**45MR86**
	5,000 W	24V DC	120V AC	60 Hz	—	—	(2) NEMA 5-15R, Hardwired	Tundra	**45MR88**
3,000 W	6,000 W	24V DC	120V AC	60 Hz	—	—	Hardwired, NEMA 5-15R	Tundra	**45MR89**
	6,000 W	12V DC	120V AC	60 Hz	—	—	Hardwired, NEMA 5-15R	Tundra	**45MR87**
	6,000 W	10.5 to 16V DC	120V AC	50/60 Hz	0	0	(2) GFCI	Aims Power	**45TX25**
5,000 W	10,000 W	26.4V DC	120V AC	50/60 Hz	0	0	(4) GFCI	Aims Power	**45TX22**
	10,000 W	13.2V DC	120V AC	50/60 Hz	0	0	(4) GFCI	Aims Power	**45TX24**

Power Inverter Installation Kits

Cable Length	Includes	Brand	Item No.
For Use With All Installer Power Inverters			
5 ft	(2) 5 ft Cable, 10 AWG, 2 AWG, 3 ft Cable	Power Drive	**493X06**
6 ft	(2) 6 ft Cable 2 AWG, 3 ft Cable 4 AWG	Power Drive	**493X07**
For Use With 45MR91			
12 ft	(2) 12 ft Cable, 4 AWG, 80A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT17**
For Use With 45MR90, 45MR93			
12 ft	(2) 12 ft Cable, 6 AWG, 60A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT16**
For Use With 45MR79, 45MR87			
6 ft	(2) 6 ft Cable, 3/0 AWG, 300A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT15**
8 ft	(2) 8 ft Cable, 3/0 AWG, 300A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT14**
10 ft	(2) 10 ft Cable, 3/0 AWG, 300A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT13**
12 ft	(2) 12 ft Cable, 3/0 AWG, 300A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT12**
For Use With 45MR78, S2500			
6 ft	(2) 6 ft Cable, 2/0 AWG, 250A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT11**
8 ft	(2) 8 ft Cable, 2/0 AWG, 250A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT10**
10 ft	(2) 10 ft Cable, 2/0 AWG, 250A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT09**
12 ft	(2) 12 ft Cable, 2/0 AWG, 250A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT08**
For Use With 45MR77, 45MR81, 45MR85, 45MR89			
6 ft	(2) 6 ft Cable, 1/0 AWG, 200A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT07**
8 ft	(2) 8 ft Cable, 1/0 AWG, 200A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT06**
10 ft	(2) 10 ft Cable, 1/0 AWG, 200A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT05**
12 ft	(2) 12 ft Cable, 1/0 AWG, 200A CNL Fuse, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT04**
For Use With 45MR76, 45MR80, 45MR84, 45MR88			
6 ft	(2) 6 ft Cable, 150A CNL Fuse, 2 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT03**
8 ft	(2) 8 ft Cable, 150A CNL Fuse, 2 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT02**
10 ft	(2) 10 ft Cable, 150A CNL Fuse, 2 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MT01**
12 ft	(2) 12 ft Cable, 150A CNL Fuse, 2 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MR99**
For Use With 45MR75, 45MR83, 45MR92, 45MR94			
6 ft	(2) 6 ft Cable, 100A CNL Fuse, 4 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MR98**
8 ft	(2) 8 ft Cable, 100A CNL Fuse, 4 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MR97**
10 ft	(2) 10 ft Cable, 100A CNL Fuse, 4 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MR96**
12 ft	(2) 12 ft Cable, 100A CNL Fuse, 4 AWG, Fuse Holder, Hardware, Loom, Strain Relief	Tundra	**45MR95**

493X06

45MR95

Automotive Primary Wire

- 100-ft. spool length

Plastic insulated, bare copper stranded primary wire for low-voltage, transportation applications. High-heat, cross-linked, wire provides resistance to chemicals, abrasion, and moisture. Meet SAE J1128 and RoHS Compliant.

Wire Size	BLACK Item No.	BLUE Item No.	RED Item No.	WHITE Item No.
Cross-linked PE				
10 AWG	**34GA44**	—	—	—
14 AWG	**34GA65**	**34GA61**	**34GA67**	—
16 AWG	**34GA75**	**34GA70**	—	—
18 AWG	**34GA82**	**34GA78**	**34GA83**	**34GA84**
GPT, PVC				
10 AWG	**34GA89**	—	**34GA88**	—
12 AWG	**34GC03**	—	**34GC08**	—
14 AWG	**34GC18**	—	—	**34GC28**
16 AWG	**34GC43**	**34GC44**	**34GC48**	**34GC49**
18 AWG	**34GC58**	**34GC59**	**34GC62**	**34GC63**
20 AWG	**34GC65**	—	**34GC69**	—
22 AWG	**34GC72**	**34GC73**	**34GC76**	**34GC77**

Black

Blue

Red

White

Automotive Fuse Holders and Blocks

For Fuse Series	Amp Range of Fuse Block/Holder	Wire Size	Connector Type	Features	Mfr. Model	Item No.
In-Line Fuse Holder, Nonindicating						
ABC, AGC, AGX, MDA, MDL, MDM, MDQ, TFF, TFL, TGH	2 to 30A	12 AWG	Wire Leads	—	HHN	**6AYE7**
AGC, SFE	1 to 20A	14 AWG	Wire Leads	—	HHK	**6AYD7**
ATC	3 to 30A	12 AWG	Wire Leads	—	HHD	**1CV56**
ATC	3 to 30A	12 AWG	Wire Leads	Cover	HHG	**6AYE8**
ATC	1 to 20A	16 AWG	Wire Leads	—	HHC	**6AYD2**
ATC	1 to 20A	16 AWG	Wire Leads	Cover	HHF	**6AYD4**
ATM	2 to 30A	12 AWG	Wire Leads	Cover	HHM	**6AYE5**
ATM	1 to 20A	16 AWG	Wire Leads	Cover	HHL	**6AYD5**
MAXI	20 to 60A	6 AWG	Wire Leads	—	HHX	**5KDK4**
In-Line Fuse Holder, Indicating						
ATC	1 to 20A	16 AWG	Wire Leads	—	ATC-FHID	**6AYK2**
ATM	1 to 20A	16 AWG	Wire Leads	—	ATM-FHID	**6AYK3**
Fuse Tap, Nonindicating						
ATC	0 to 10A	16 AWG	Wire Leads with Crimp	—	BP/HHA-RP	**6AYL5**
Fuse Block, Nonindicating						
AMG	100 to 300A	8 to 1 AWG	Screw	Cover	HMEG	**52CN17**
AMI	40 to 80A	8 to 1 AWG	Screw	Cover	HMID	**52CN16**

Fuse Holder with Cover 6AYE8

Fuse Holder 6AYK2

Fuse Holder 6AYL5

Scan. Order. Done.
Details on page A1.

Fuse Kit 6AYD3 · 49ZU12 · 6AYL6 · 55NJ10

Automotive Fuse Kits

EATON BUSSMANN SERIES

Provide common replacement fuses in a compact, reclosable, see-through pack. Suitable for automobiles, light- and heavy-duty trucks, and buses.

Total # of Fuses Incl.	Fuses Included	Visual Indication	Item No.
Fuse Kit			
5	(1) ATC 10, 15, 20, 25, 30	Nonindicating	**6AYD3**
5	(1) AGC 10, 15, 20, 25, 30	Glass Fuse	**49ZU11**
5	(1) ATC-ID 10, 15, 20, 25, 30	Indicating	**49ZU34**
6	(1) ATC 10, 15, 30, 40; (2) ATC 20, 25	Nonindicating	**6AYE6**
6	(2) SFE 14, 20, 30	Glass Fuse	**49ZU12**
6	(1) SFE 4, 6; (2) SFE 7½, 9	Glass Fuse	**49ZV44**
8	(1) ATM 2, 5, 7½, 10, 15, 20, 25, 30	Nonindicating	**6AYE9**
8	(2) ATM 10, 15, 20; (1) ATM 25, 30	Nonindicating	**6AYG4**
16	(1) FLB 30, 40, 60, 70, 80, 100; (1) FLF 20, 30, 40, 50, 60; (1) FLM 30, 60, 80, 100	Nonindicating	**6CJG1**
23	(1) ATM 10, 15, 20, 25, 30; (1) ATM-LP 10, 15, 20, 25, 30; (1) ATC 3, 5, 7½, 10, 15, 20, 25, 30, 40; (1) MAX 30, 40; (1) FMX 30, 40	Nonindicating	**52CN19**
36	(6) ATM-ID 5, 10, 15, 20, 25, 30	Indicating	**6AYL9**
42	(7) ATC 5, 10, 15, 20, 25, 30	Nonindicating	**6AYL6**
42	(7) ATM 5, 10, 15, 20, 25, 30	Nonindicating	**6AYL7**
42	(7) ATC-ID 5, 10, 15, 20, 25, 30	Indicating	**6AYL8**
80	(5) ATM 2, 3, 4, 5, 7½, 25, 30; (15) ATM 10, 15, 20	Nonindicating	**55NJ11**
100	(5) ATC 3, 4, 5, 7½; (10) ATC 10, 15, 25, 35, 40; (15) ATC 20, 30	Nonindicating	**55NJ12**
270	(5) ATC 3, 4, 5, 7½; (10) ATC 10, 15, 20, 25, 35, 40; (15) ATC 30; (5) ATM 2, 3, 4, 5, 7½, 25, 30; (15) ATM 10, 15, 20; (5) ATM-LP 2, 3, 4, 5, 7½, 25, 30; (10) ATM-LP 10, 15, 20; (1) MAX 20, 30, 100; (3) MAX 40, 50, 60; (2) MAX 70, 80; (2) FMX 20; (2) FMX 30, 40, 50, 60	Nonindicating	**52CN18**
372	(10) ATM 2, 3, 4, 5	Nonindicating	**55NJ10**

ATM Fuses · ATC Fuses · ATM Illuminating 6AYK9 · FMX 6AYF3 · FMX Low-Profile 6AYH6 · MAX Fuse 6AYD8 · ATM Low-Profile 6AYN1 · AMI Fuse 6AYK1

Automotive Fuses and Circuit Breakers

EATON BUSSMANN SERIES

ATM Fuses—0.64"L x 0.43"W—Universal color coding. Enclosed element protects against shocks, sparks, and corrosion. For late-model vehicles. Illuminated versions glow when fuse is opened.
- Fast-acting
- 1kA IR

FMX and FMX Low-Profile—1"L x 0.47"W—Meet OEM demand for smaller components, and offer high-amp protection in compact packages.

MAX Fuses—1.7"L x 1.2"W—Used to protect circuits in wiring harness. For domestic and imported vehicles.

AGA Fuses—¼" dia. x ⅝"W—Size rejects insertion of other fuse types.
- Fast-acting

ATC Fuses—¾"L x ¾"W—Feature enclosed element. Illuminated versions glow when fuse is opened.
- Fast-acting
- 1kA IR

UCB Circuit Breakers—UCB series replace ATC fuses.

Color Code	Fuse Amps	Mfr. Model	Item No.	Pkg. Qty.
ATM Fuses (32V DC)				
Gray	2	ATM-2	**6AYC7**	1
Violet	3	ATM-3	**1BZ48**	1
Pink	4	ATM-4	**1BZ50**	1
Tan	5	ATM-5	**1BZ51**	1
Brown	7½	ATM-7-1/2	**1BZ52**	1
Red	10	ATM-10	**1BZ42**	1
Blue	15	ATM-15	**1BZ43**	1
Yellow	20	ATM-20	**1BZ44**	1
Clear	25	ATM-25	**1BZ45**	1
Green	30	ATM-30	**1BZ49**	1
ATM-ID Illuminating Fuses (32V DC)				
Violet	3	BP/ATM-3ID	**6AYL3**	2
Tan	5	BP/ATM-5ID	**52CN11**	2
Red	10	BP/ATM-10ID	**6AYK9**	2
Blue	15	BP/ATM-15ID	**6AYL0**	2
Yellow	20	BP/ATM-20ID	**6AYL1**	2
Clear	25	BP/ATM-25ID	**6AYL2**	2
Green	30	BP/ATM-30ID	**6AYL4**	2
ATM-LP Low-Profile Fuses (32V DC)				
Tan	5	ATM -5LP	**6AYN0**	5
Brown	7½	ATM-7-1/2LP	**6AYN2**	5
Red	10	ATM-10LP	**6AYN1**	5
Blue	15	ATM-15LP	**6AYN3**	5
Yellow	20	ATM-20LP	**6AYN4**	5
Clear	25	ATM-25LP	**6AYN5**	5
Green	30	ATM-30LP	**6AYN6**	5
FMX Fuses (12V DC)				
Blue	20	FMX-20	**6AYF0**	1
Pink	30	FMX-30	**6AYF1**	1
Green	40	FMX-40	**6AYF2**	1
Red	50	FMX-50	**6AYF3**	1
Yellow	60	FMX-60	**6AYF4**	1
FMX-LP Low-Profile Fuses (32V DC)				
Blue	20	FMX-20LP	**6AYH3**	1
Pink	30	FMX-30LP	**6AYH4**	1
Green	40	FMX-40LP	**6AYH5**	1
Red	50	FMX-50LP	**6AYH6**	1
Yellow	60	FMX-60LP	**6AYH7**	1
MAX Fuses (32V DC)				
Yellow	20	MAX-20	**6AYD8**	1
Green	30	MAX-30	**6AYD9**	1
Orange	40	MAX-40	**6AYE0**	1
Red	50	MAX-50	**6AYE1**	1
Blue	60	MAX-60	**6AYE2**	1
Tan	70	MAX-70	**6AYE3**	1
Clear	80	MAX-80	**6AYE4**	1
MAX-ID Illuminating Fuses (32V DC)				
Yellow	20	BP/MAX-20ID	**52CN12**	1
Green	30	BP/MAX-30ID	**52CN13**	1
Orange	40	BP/MAX-40ID	**49ZU59**	1
Red	50	BP/MAX-50ID	**52CN14**	1
Blue	60	BP/MAX-60ID	**52CN15**	1
AGA Fuses (2 to 5A 125VAC, 7½ to 30A 32VAC)				
Clear	2	AGA-2	**6AYC1**	5
Clear	3	AGA-3	**6AYC3**	5
Clear	5	AGA-5	**6AYC5**	5
Clear	7½	AGA-7-1/2	**6AYC6**	5
Clear	15	AGA-15	**6AYC0**	5
Clear	20	AGA-20	**6AYC2**	5
Clear	30	AGA-30	**6AYC4**	5
ATC Fuses (32V DC)				
Black	1	ATC-1	**6AYD0**	1
Gray	2	ATC-2	**6AYD1**	1
Violet	3	ATC-3	**1BZ37**	1
Pink	4	ATC-4	**1BZ39**	1
Tan	5	ATC-5	**1BZ40**	1
Brown	7½	ATC-7-1/2	**1BZ41**	1
Red	10	ATC-10	**1BZ33**	1
Blue	15	ATC-15	**1BZ34**	1
Yellow	20	ATC-20	**1BZ35**	1
Clear	25	ATC-25	**1BZ36**	1
Green	30	ATC-30	**1BZ38**	1
Amber	40	ATC-40	**6AYA9**	1
ATC-ID Illuminating Fuses (32V DC)				
Violet	3	BP/ATC-3ID	**6AYG9**	2
Tan	5	BP/ATC-5ID	**6AYH1**	2
Brown	7½	BP/ATC-7-1/2ID	**6AYH2**	2
Red	10	BP/ATC-10ID	**6AYG5**	2
Blue	15	BP/ATC-15ID	**6AYG6**	2
Yellow	20	BP/ATC-20ID	**6AYG7**	2
Clear	25	BP/ATC-25ID	**6AYG8**	2
Green	30	BP/ATC-30ID	**6AYH0**	2
UCB Circuit Breakers (12V DC)				
Plain/Natural	6	UCB-6	**6KXT8**	1
Red	10	UCB-10	**6AYJ4**	1
Blue	15	UCB-15	**6AYJ5**	1
Yellow	20	UCB-20	**6AYJ6**	1
Plain	25	UCB-25	**6AYJ7**	1
Green	30	UCB-30	**6AYJ8**	1
AMG Fuses (32V DC)				
Black	100	AMG-100	**6AYK4**	1
Black	125	AMG-125	**6AYK5**	1
Black	150	AMG-150	**6AYK6**	1
Black	175	AMG-175	**6AYK7**	1
Black	200	AMG-200	**6AYK8**	1
AMI Fuses (32V DC)				
Black	50	AMI-50	**6AYK0**	1
Black	80	AMI-80	**6AYK1**	1

CB211 & 212 Series · CB1911 Series · CB221 & 222 Series · CBC-B Series

Automotive Circuit Breakers

EATON BUSSMANN SERIES

Reset Type	Amps	Item No.
CB211 Series, ATM Footprint, 14V DC		
Automatic	10 A	**5KDL0**
Automatic	15 A	**5KDL1**
Automatic	20 A	**5KDL2**
Automatic	25 A	**5KDL3**
Automatic	30 A	**6CJA3**
CB212 Series, ATM Footprint, 12V DC		
Modified	10 A	**5KDL4**
Modified	15 A	**5KDL5**
Modified	20 A	**5KDL6**
Modified	25 A	**5KDL7**
Modified	30 A	**5KDL8**
CB221 Series, ATC Footprint, 12V DC		
Automatic	10 A	**5KDL9**
Automatic	15 A	**5KDN0**
Automatic	20 A	**5KDN1**
Automatic	25 A	**5KDN2**
Automatic	30 A	**5KDN3**
CB222 Series, ATC Footprint, 12V DC		
Modified	10 A	**5KDN4**
Modified	15 A	**5KDN5**
Modified	20 A	**5KDN6**
Modified	25 A	**5KDN7**
Modified	30 A	**5KDN8**
CB227 Series, ATC Footprint, 28V DC		
Manual	10 A	**6CJA4**
Manual	15 A	**6CJA5**
Manual	20 A	**6CJA6**
Manual	25 A	**6CJA7**
Manual	30 A	**6CJA8**
CB1911 Series, Maxi Footprint, 12V DC		
Automatic	20 A	**5KDK6**
Automatic	30 A	**5KDK7**
Automatic	40 A	**5KDK8**
Automatic	50 A	**5KDK9**
CBC-B Series, Stud Mount with Bracket, 14V DC		
Automatic	10 A	**6CJC6**
Automatic	15 A	**6CJC7**
Automatic	20 A	**6CJC8**
Automatic	25 A	**6CJC9**
Automatic	30 A	**6CJD0**
Automatic	40 A	**6CJD1**
Automatic	50 A	**6CJD2**
CBC Series, Stud Mount, 14V DC		
Automatic	10 A	**6CJA9**
Automatic	15 A	**6CJC0**
Automatic	20 A	**6CJC1**
Automatic	25 A	**6CJC2**
Automatic	30 A	**6CJC3**
Automatic	40 A	**6CJC4**
Automatic	50 A	**6CJC5**
CBP-BA Series, Stud Mount with Bracket, 14V DC		
Automatic	20 A	**6CJD3**
Automatic	25 A	**6CJD4**
Automatic	30 A	**6CJD5**
Automatic	40 A	**6CJD6**
Automatic	50 A	**6CJD7**
CBT-M Series, For Mack Trucks, 12V DC		
Modified	10 A	**6CJD8**
Modified	15 A	**6CJD9**
Modified	20 A	**6CJE0**
Modified	25 A	**6CJE1**
Modified	30 A	**6CJE2**
CBT-N Series, For Navistar Trucks, 12V DC		
Modified	15 A	**6CJE3**
Modified	20 A	**6CJE4**
Modified	25 A	**6CJE5**
Modified	30 A	**6CJE6**
CB185 Series, Waterproof, 48V DC		
Manual	50 A	**6CHZ5**
Manual	60 A	**6CHZ6**
Manual	70 A	**6CHZ7**
Manual	80 A	**6CHZ8**
Manual	100 A	**6CHZ9**
Manual	120 A	**6CJA0**
Manual	135 A	**6CJA1**
Manual	150 A	**6CJA2**

4CUL4

34UH66

4CUL3

4CUL2

34UH68

53KJ35

53KJ37

Utility Funnels

Total Cap.	Top Dia.	Spout O.D.	H	Color	Includes	Item No.
Funnel King						
Polyethylene 4-Pc. Funnel Set						
¾ to 10 oz	1⅞ in to 4⅜ in	5⁄16 in to 9⁄16 in	6 in	Orange	¾, 2, 6, and 10 oz Funnels	**4CUL4**
Polyethylene Capped Funnel						
1 ½ qt	4 in	½ in	18 in	Red	Caps on Each End	**4CUL9**
1 ½ qt	4 in	1 in	14 in	Green	Caps on Each End	**4CUN1**
1 pt	3 in	½ in	8 ¾ in	Orange	Caps on Each End	**4CUL7**
Polyethylene Fast Fill Spout Funnel						
3 qt	5 ¼ in	1 7⁄16 in	21 ½ in	Yellow	Removable Spout	**14N905**
Polyethylene Flexible Pouring Spout						
3 ½ oz	1 ½ in	½ in	1 ½ in	Red	—	**34UH66**
Polyethylene Funnel and Flexible Spout						
1 qt	6 in	½ in	16 in	Black	10 in Removable Flexible Spout (34UH66), Handle	**4CUL3**
Polyethylene Spout Funnel						
1 pt	5 ⅛ in	½ in	4 ½ in	Black	Hanging Tab	**4ZH70**
2 qt	7 in	½ in	7 in	Black	Hanging Tab	**53KJ39**
8 oz	3 ½ in	5⁄16 in	4 ¼ in	Yellow	Hanging Tab	**4ZH69**
12 oz	3 ½ in	13⁄16 in	6 in	Blue	—	**34UH65**
Polyethylene Spout Funnel with Screen						
1 pt	6 ½ in	½ in	6 ⅛ in	Red	50 Micron Stainless Steel Screen, Hanging Tab	**4CUL2**
2 qt	6 ½ in	1 1⁄16 in	8 3⁄16 in	Red	60 Micron Stainless Steel Screen, Hanging Tab	**4ZH73**
6 qt	8 ¼ in	1 5⁄16 in	10 ½ in	Red	60 Micron Stainless Steel Screen, Hanging Tab	**6Y805**
120 oz	8 in	⅞ in	16 in	White	Removable Mesh 100 Grit (Fine) Filter	**4CUN5**
144 oz	9 in	1 1⁄16 in	10 in	Black, White	Antisplash Ring, Gold Mesh 100 Grit Filter	**4CUN7**
Polypropylene Long Reach Spout Funnel						
1 qt	4 in	½ in	18 in	Black	Hanging Tab	**4ZH72**
Polypropylene Spout Funnel						
4 oz	3 ⅛ in		3 in	Black	—	**10G580**
26 oz	5 ½ in	1 ¼ in	6 ¼ in	Blue	—	**34UH68**
Steel Flex Spout Funnel with Screen						
1 qt	6 ⅜ in	9⁄16 in	7 ⅜ in	Silver	50 Grit Mesh Removable Brass Strainer Screen, Flex Spout	**53KJ35**
2 qt	7 in	½ in	28 in	Silver	50 Grit Mesh Removable Brass Strainer Screen, Flex Spout	**53KJ38**
Steel Funnel						
32 oz	4 ¾ in	¾ in, 1 ⅛ in	6 in	Silver	—	**53KJ34**
Steel Galvanized Offset Spout Funnel						
6 qt	10 ½ in	1 in	11 ⅝ in	Silver	Removable Filter 50 Grit Mesh Screen	**53KJ40**
Steel Galvanized Spout Funnel						
8 qt	9 ⅝ in	1 in	11 ⅞ in	Silver	Removable Filter 50 Grit Mesh Screen	**53KJ41**
Steel Spout Funnel						
64 oz	8 ⅜ in	½ in	7 ¾ in	Silver	Removable Filter 50 Grit Mesh Screen	**53KJ37**
256 oz	9 ⅝ in	1 in	12 in	Silver	Removable Filter 50 Grit Mesh Screen	**53KJ30**
Steel Spout Funnel with Screen						
1 qt	6 ⅜ in	½ in	7 ⅜ in	Silver	Removable Filter 50 Grit Mesh Screen	**53KJ36**
Westward						
Plastic 3-Pc. Funnel Set						
	—		—	Clear	(3) Fine Mesh Filter Screens, 4 in, 6 in, and 8 in Utility Funnels	**1EKF3**
Plastic Spout Funnel with Screen						
25 oz	3 ¼ in	9⁄16 in	—	Clear	3.2 in Screen	**1EKF2**
Plastic Utility Spout Funnel						
7 oz	3 ⅞ in	9⁄16 in	—	Clear	Hanging Tab	**1EKF1**
64 oz	7 ¾ in	1 ⅛ in	—	Clear	Hanging Tab	**1EKE8**

Vented Drum Funnel with Lockable Lid

- Fits 2" bung opening
- Not recommended for flammable liquids
- Built-in vent eliminates splashing

Total Cap.	Top Dia.	Mfr. Model	Item No.
2 gal	13 ⅜ in	651	**3TZU4**
—	22 in	656	**3UAK6**

10G582

3UAJ6

Drum Funnels

- Fits 2" bung opening except 10G575 fits 1" opening

Description	Overall Capacity	Top Dia.	Overall Height	Material	Color	Item No.
Funnel King						
Without Screen	3 qt	7 ½ in	9 3⁄16 in	Polyethylene	Black	**10G575**
	3 qt	7 ½ in	9 3⁄16 in	Polyethylene	Black	**10G574**
With Screen	4 qt	11 ¾ in	4 ⅜ in	Polypropylene	Black	**10G577**
With Lockable Lid For Open or Closed Drum Heads	4 qt	10 in	8 ½ in	Polypropylene	Red	**10G582**
With Lid and Fluid Control	2 gal	11 ½ in	13 in	Polypropylene	Yellow	**10G573**
With Lid, For Open or Closed Head Drums	2 gal	21 ½ in	7 in	Polyethylene	Yellow	**10G576**
Justrite						
Self Closing w/ Fuse Link, 32" L Tube	2.6 gal	10 ¾ in	10 in	Steel	Red	**3TZU8**
Self Closing w/ Fuse Link, 6" L Tube	2.6 gal	10 ¾ in	10 in	Steel	Yellow	**3UAJ6**

53KJ34

2CAP3

Measuring Containers

For accurate measuring and easy dispensing of fluids or dry goods. 53KJ43 and 53KJ44 have a splash-resistant top. 53KJ45 has a flip-action valve and thumb-operated flow control.

Cap.	W	Brand	Mfr. Model	Item No.
HDPE				
Flexible Spout with Dust and Spout Caps				
1 qt/1 L	—	Westward	2CAN9	**2CAN9**
2 qt/2 L.	—	Westward	2CAP1	**2CAP1**
3 qt/3 L.	—	Westward	2CAP2	**2CAP2**
5 qt/5 L.	—	Westward	2CAP3	**2CAP3**
6 qt/6 L	—	Westward	33RL91	**33RL91**
Fixed Spout with Dust and Spout Caps				
6 L	11 ½ in	Funnel King	32375	**10G596**
10 L	13 in	Funnel King	32377	**10G597**

Cap.	W	Brand	Mfr. Model	Item No.
Galvanized Steel				
2 qt	6 ½ in	Funnel King	94486	**53KJ43**
4 qt	7 ½ in	Funnel King	94488	**53KJ44**
5 qt	10 in	Funnel King	94496	**53KJ45**
HDPE				
8 qt	—	Westward	48UJ87	**48UJ87**
5 9⁄32 qt	8 in	Funnel King	94367	**53KJ50**
Galvanized Steel				
32 oz	—	Funnel King	94484	**53KJ34**

4ZT17

With Clamping Support 34NK67

Drum Dollies

- 4 casters

For Container Capacity	Load Capacity	Caster Material	Caster Dia.	Color	Brand	Item No.
Cross-Brace Drum Dollies with Support Ring						
55 gal	400 lb	Nylon	4 in	Black	Westward	**34NK68**
55 gal	400 lb	Steel	3 in	Black	Legacy	**4ZT17**
55 gal	650 lb	Hard Rubber	2 ½ in	Black	Lincoln	**6WB28**
Open-Deck Drum Dollies with Clamping Support						
16 gal	120 lb	Polyolefin	3 in	Black	Westward	**34NK67**
16 gal	120 lb	Hard Rubber	2 ½ in	Red	Lincoln	**6WB27**

21EM36

6RKP9

3YEY4

Portable Waste Oil Containment

Description	Cap. (gal.)	H (in.)	Mfr. Model	Item No.
Westward				
Gravity Feed	13	63 ½ in	21EM36	**21EM36**
Gravity Feed	18	72 in	21EM03	**21EM03**
Gravity Feed	24	39 ⅜ in	34NK72	**34NK72**
Proto				
Lift Drain with 15" dia. Funnel	8	13 39/50 in	JFF11102	**6RKP9**
Lincoln				
Portable Oil Drain	8	22 ½ in	3508	**45PG77**
Drum Drain for 16-gal. Open Top Drum	16 gal		613	**6Y902**
Portable Oil Drain	18	30 in	3518	**45PG78**
Receiver and Self-Evacuating System with 14" dia. Bowl	18	72 in	3601	**3YEY4**
Receiver and Self-Evacuating System with 14" dia. Bowl	20 gal	44 to 72	3614	**6WA94**
Gravity Feed Drain	25	22 in	3635	**20KY21**
Air-Operated Fluid Extractor	25 gal	18 in	3637	**20KY22**
Combination Gravity Feed and Air-Operated Fluid Extractor	25	22 in	3639	**20KY23**
Funnel Drain Pan, 24" Overall Dia.			3610	**6Y910**

20KY20

6ANR8

45PE54

Low-Profile Truck Drains

Includes	Cap. (gal.)	Construction	H (in.)	Item No.
Lincoln				
(4) Casters, 6 ft Discharge Hose, Filter Screen, Hose, T-Handle	17	Polypropylene	7 ¾ in	**20KY18**
(4) Casters, Electric Pump, Filter Screen, Hose, T-Handle	17	Polypropylene	7 ¾ in	**20KY20**
(4) Casters, Filter Screen, Hose, Rotary Hand Pump, T-Handle	17	Polypropylene	7 ¾ in	**20KY19**
Liquidynamics Inc.				
(4) Casters, Filter Screen, Hose, T-Handle	25	Steel	9 in	**6ANR8**
T-Handle	25	Steel	9 in	**447V40**
OTC				
(4) Casters, Electric Pump, Filter Screen, Hose, T-Handle	15	Polypropylene	7 ½ in	**45PE54**
Westward				
1.25 ft Feeder Hose, 6 ft Discharge Hose with Steel Spout, Manual Rotary Pump	17	Polyethylene, Steel, PVC, Cast Iron, Rubber	7 ⁷⁄₁₀ in	**48UJ81**
6 ft Discharge Hose with Steel Spout	17	Polyethylene, Steel, PVC	7 ⁷⁄₁₀ in	**48UJ80**
Drain Outlet	18	Steel	7 ½ in	**45CT55**
Drain Outlet	18	Steel, Cast Iron	7 ½ in	**45CT56**

Portable Oil/Antifreeze Transfer Tanks

- 9" clearance from floor to top of reservoir

Item	Cap. (gal.)	Dia.	Mfr. Model	Item No.
Oil Fluid Handler	15	30 in	OH-15	**11N158**
Antifreeze Fluid Handler	15	30 in	AH-15	**11N159**

11N159

53KJ31

20KR87

45CT67

Drip and Drain Pans

Cap. (gal.)	L	W	Dia.	Construction	Brand	Item No.
Drain Pan						
2 gal	22 in	22 in	22 in	Polypropylene	Funnel King	**4CUR2**
3 ¼	17 ¼ in	17 ¼ in	17 ¼ in	Steel	Funnel King	**53KJ32**
—	25 ¾ in	17 ½ in	—	Steel	Funnel King	**53KJ31**
4	17 ¾ in	—	17 ¾ in	Polyethylene	Funnel King	**34UH69**
4 gal	17 ¾ in	17 ¾ in	17 ¾ in	Polyethylene	Funnel King	**4CUR5**
4 ¼	23 ¼ in	—	18 ⁷⁄₁₆ in	Polyethylene	Westward	**45CT67**
24/25	21 in	11 in	22½ in to 24½ in	Plastic	Ken-Tool	**20KR87**
Oil Drain Basin						
1 ⅝ in	13 ½ in	13 ½ in	13 ½ in	Polypropylene	Funnel King	**10G589**
4 ¼	23 ¼ in	—	18 ⁷⁄₁₆ in	Polyethylene	Westward	**45CT66**
Spill Tray						
—	25 in	15 in	—	—	Funnel King	**10G599**
Steel Bucket						
3	12 ³⁹⁄₆₄ in	11 ²⁷⁄₆₄ in	11 ½ in	Steel	Funnel King	**53KJ33**

Fluid Evacuator/Dispenser

Item	Reservoir Cap. (gal.)	Type	Mfr. Model	Item No.
Mityvac				
Coolants, Engine and Gear Oils, Power Steering and Brake Fluid, Similar Fluids, Trans Fluid				
Fluid Dispenser	1.2 gal	Manual	MV6400	**45PG69**
Fluid Evacuator	1.9 gal	Manual	07400	**1XGR9**
Fluid Evacuator	2.3 gal	Pneumatic	07300	**1XGR8**
Fluid Evacuator/ Dispenser	2.3 gal	Manual	07201	**1XGR7**
Fluid Extractor Syringe	0.05 gal	Manual	MVA6851	**45PG75**
Hydraulic Brake Fluid				
Brake Bleed Kit	0.5 gal	Pneumatic	MV6835	**45PG71**
Master Brake Bleed Kit	0.5 gal	Pneumatic	MV6838	**45PG72**
Pressure Bleed Kit	1.2 gal	Manual	MV6840	**45PG73**
Vacuum Brake Bleeder	0.3 gal	Pneumatic	MV6870	**45PG74**
Transmission Fluid				
ATF Refill Kit	2.5 gal	Manual	MV6412A	**45PG70**
Westward				
Hydraulic Fluids				
Fluid Evacuator	1.7 gal	Manual	20KY56	**20KY56**
Fluid Evacuator	4 gal	Pneumatic	20KY58	**20KY58**

1XGR9

45PG72

Portable Fluid Extractors

Hand pump systems use vacuum action to pull oils and fluids from engines into waste tank.

Reservoir Cap. (gal.)	Mfr. Model	Item No.
0.75 gal	2005LV	**1NUV6**
2 gal	2000LV	**1NUV5**

1NUV5

ARO

Waste Oil Evacuation Packages

Include wall-mount bracket, inlet and outlet hose assemblies, air line filter/ regulator with auto drain, air line hose, gauge, and fluid coupler.

Working Flow Max. (gpm)	Mfr. Model	Item No.
Diaphragm Pump		
11 gpm	612999-5	**4ZT10**
35 gpm	612999-4	**4ZT09**

4ZT10

Manual Grease Guns

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

Flip-over follower on select guns provides a superior seal for easy filling.

Lever models have a cast iron pump head, precision-fit plunger, and extra-heavy follower spring to withstand rough duty.

Pistol models have a die-cast aluminum head.

Nozzle Extension Type	Hose Length	Pipe Length	Strokes for 1-oz. Output	Tube Color	Max. Operating Pressure	Mfr. Model	Item No.
Metal							
Lever							
Flex Hose	18 in	—	28	Blue	10,000 psi	1147	6Y892
Rigid Pipe	5 in	5 ½ in	33	Black	6,000 psi	G100	52ZV15
	—	6 in	28	Blue	10,000 psi	1142	6Y888
	—	6 in	28	Blue	10,000 psi	1148	6Y889
	—	6 in	33	Silver	7,000 psi	1013	6Y886
	—	6 in	28	Black	8,000 psi	G102	6WA95
	—	6 in	33	Silver	0.5714 psi	1145	6WA96
	—	6 in	25	Silver	7,000 psi	1035	6Y887
	—	6 in	9	Silver	3,000 psi	1037	6Y890
Pistol Grip							
Flex Hose	18 in	—	56	Blue	6,000 psi	1133	6Y894
	18 in	—	56	Black	6,000 psi	G113	6WA97
Rigid Pipe	—	6 in	56	Blue	6,000 psi	1132	6Y895
Rigid Pipe and Flex Hose	18 in	6 in	33	Blue	7,500 psi	1134	6WA98
Polycarbonate							
Lever							
Rigid Pipe	—	2 in	33	Clear with Blue Tube Ends	7,500 psi	1142CLR	3LKR6
Pistol Grip							
Rigid Pipe and Flex Hose	18 in	6 in	33	Clear with Blue Tube Ends	7,500 psi	1134CLR	2AAW1

PROTO®

Manual Grease Gun

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

Versatile pistol-grip gun offers 3-way filling and is teather-ready, with a heat-shrink loop attachment. It features a heavy-duty 1.7mm thick seamless aluminum barrel to avoid dents, lightweight aluminum head, heavy-duty flexible 18" nylon hose, and 6" metal spout for easy use.

Nozzle Extension Type	Hose Length	Pipe Length	Strokes for 1-oz. Output	Tube Color	Max. Operating Pressure	Tether Style	Item No.
Pistol Grip							
Rigid Pipe and Flex Hose	18 in	6 in	30	Red	3,600 psi	Standard Tool	6RKT6
	18 in	6 in	30	Red	3,600 psi	Tether Ready	24AL24

WESTWARD®

Manual Grease Guns

- Cartridge capacity 14½ oz. (except 4BY82 uses 3-oz. cartridge)
- Bulk capacity 16 oz. (except 4BY82 4-oz. capacity)
- Cartridge or bulk grease loading

Feature die-cast aluminum head and handle. 4BY82 is a toolbox-size gun with dual discharge ports (front and top). 4BY74 comes with a handy filler nipple. 13X046 is ideal for use in cold weather and has a large inlet port with venturi action. Clear barrel models provide 100% positive grease identification and color-coded ends help identify which fluid is in each gun. Additional color options on Grainger.com®.

Nozzle Extension Type	Hose Length	Pipe Length	Tube Color	Stroke	Strokes for 1-oz. Output	Max. Operating Pressure	Item No.
Steel							
Lever							
Flex Hose	18 in	—	Black	Variable Stroke	31	10,000 psi	4BY72
	18 in	—	Black	Full Stroke	33	6,000 psi	4BY69
	18 in	—	Blue	Full Stroke	36	10,000 psi	15F199
Rigid Pipe	—	6 in	Black	Full Stroke	28	6,000 psi	4BY70
	—	6 in	Black	Variable Stroke	28	8,000 psi	15F202
	—	6 in	Black	Full Stroke	28	10,000 psi	4BY71
Pistol Grip							
Flex Hose	18 in	—	Black	Full Stroke	56	6,000 psi	15F196
	18 in	—	Blue	Full Stroke	35	6,000 psi	4BY81
	18 in	—	Black	Full Stroke	40	7,500 psi	13X046
Rigid Pipe	—	4 in	Gray	Full Stroke	67	3,500 psi	4BY82
	—	6 in	Black	Full Stroke	56	6,000 psi	4BY74
Rigid Pipe and Flex Hose	12 in	4 in	Silver	Full Stroke	60	5,000 psi	33RL90
Polycarbonate							
Flex Hose	18 in	—	Clear with Silver Tube Ends	Variable Stroke	40	7,500 psi	15F203
Metal							
Flex Hose	12 in	—	Gray	Full Stroke	30	7,000 psi	45CT47
Aluminum							
Flex Hose	18 in	—	Red	Full Stroke	56	5,000 psi	48UJ79
Rigid Pipe and Flex Hose	12 in	5 ½ in	Clear with Black Tube Ends	Variable Stroke	40	7,000 psi	44C495
	12 in	5 ½ in	Clear with Blue Tube Ends	Variable Stroke	40	7,000 psi	44C496
	12 in	5 ½ in	Clear with Green Tube Ends	Variable Stroke	40	7,000 psi	44C498
	12 in	5 ½ in	Clear with Red Tube Ends	Variable Stroke	40	7,000 psi	44C501

Features	For Use With	Item No.
Grease Gun Holder		
Heavy Duty Spring Loaded Flap, Ideal For Holding Guns On Automobiles, Farm Equipment And Other High Vibration Environments	2¼ in Diameter Barrel Guns	13X048
Clamp On Style With Simple Snap Action Clamping	2¼ in Diameter Barrel Guns	13X047
Clear Grease Gun Barrel with Blue Ends		
14 oz See-Thru Shatterproof Barrel, Anodized Blue End Caps	Westward Clear Grease Guns and Most Lincoln and Alemite Grease Guns (Not For Use with Aviation Grease)	44C482

Milwaukee® DEWALT

Cordless Grease Guns

- Battery powered
- Pistol Grip
- Cartridge or bulk grease loading
- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.

Feature air bleeder valves for quick priming. Flex hose nozzle extensions help access hard-to-reach fittings. 25DU72 and 25DU73 have variable-speed triggers for controlled grease flow and are suitable for grease types up to NLGI Grade 2. 45L187 to 45L189 have 2-speed design to select between max. pressure and max. flow rate. All except 6FKP5 and 4PKY9 have LED lights for low-light conditions.

Description	Nozzle Extension Type	Hose Length	Strokes for 1-oz. Output	Max. Operating Pressure	Mfr. Model	Item No.
Milwaukee 12 V Voltage						
Bare Tool	Flex Hose	36 in	38 stroke/oz	8,000 psi	2446-20	6FKP5
Battery Included	Flex Hose	36 in	38 stroke/oz	8,000 psi	2446-21XC	4PKY9
	Flex Hose	36 in	38 stroke/oz	8,000 psi	2446-21XC, 48-11-2460	326UR1
Milwaukee 18 V Voltage						
Bare Tool	Flex Hose	48 in	38 stroke/oz	10,000 psi	2646-20	45L189
	Flex Hose	48 in	38 stroke/oz	10,000 psi	2646-20, 48-11-1835	349AJ3
Battery Included	Flex Hose	48 in	38 stroke/oz	10,000 psi	2646-21CT	45L187
	Flex Hose	48 in	38 stroke/oz	10,000 psi	2646-22CT	45L188
DeWalt 20 Voltage						
Bare Tool	Flex Hose	42 in	37 stroke/oz	10,000 psi	DCGG571B	25DU73
Battery Included	Flex Hose	42 in	37 stroke/oz	10,000 psi	DCGG571M1	25DU72
	Flex Hose	42 in	37 stroke/oz	10,000 psi	DCGG571B/DCB240	58JL67

For Use With	Brand	Item No.
Clear Grease Gun Barrel		
Grease Guns	DeWalt	20GW37
2646-20, 2646-21CT, 2646-22CT	Milwaukee	45L190

49CT89

1XGN5

30HL30

2FRU5

LINCOLN

Cordless and Air-Operated Grease Gun Kits

- Cartridge capacity 14½ oz.
- Bulk capacity 16 oz.
- Cartridge or bulk grease loading

For grease types up to NLGI Grade 2. Silver-color tube.

Cordless—49CT89, 49CT90, 30HL30, and 30HL31 feature stable 3-point stance. 1260 Series have an air purge valve and integrated hose holder.

1440 Series cycle indicator pin helps monitor grease output. 1840 Series with high-torque motor and high-capacity battery dispense up to 10 grease cartridges with a single charge.

Air-Operated—Variable-speed trigger. Advanced pump design helps eliminate priming problems. ¼" FNPT air inlet. Air operating range: 40 to 150 psi. 40:1 ratio.

Battery Type	Nozzle Extension Type	Hose Length	No. of Speeds	Strokes for 1-oz. Output	Grease Gun Handle Style	Max. Operating Pressure	Battery	Mfr. Model	Item No.
Cordless Grease Gun									
12 V Voltage									
Li-Ion	Flex Hose	30 in	—	2.6	Pistol Grip	8,000 psi	Mfr. No. 1261	1262	**49CT89**
	Flex Hose	30 in	—	2.6	Pistol Grip	8,000 psi	(2) Mfr. No. 1261	1264	**49CT90**
14.4 V Voltage									
NiCad	Flex Hose	30 in	2	50 stroke/oz	Pistol Grip	7,500 psi	(2) 1XGN4	1444	**1XGN5**
20 V Voltage									
Li-Ion	Flex Hose	36 in	2	—	Pistol Grip	10,000 psi	30HL32	1882	**30HL30**
	Flex Hose	36 in	2	—	Pistol Grip	10,000 psi	(2) 30HL32	1884	**30HL31**
Air-Operated Grease Gun									
—	Flex Hose	30 in	—	—	Pistol Grip	6,000 psi	—	1162	**2FRU5**

Description	Mfr. Model	Item No.
Cordless Grease Gun Accessories		
20V Battery for No. 30HL30	1871	**30HL32**
110V Battery Battery Charger for use with Power Luber	1410	**3LKR5**
Clear Grease Tube	1100CLR	**1XGP2**

legacy

Portable Air-Operated Grease Pump Package

4ZT49

- Pump ratio 55:1
- Volume per minute: 22 oz.

Includes	Size (lb./gal.)	Mfr. Model	Item No.
Pump, Air Coupler, Booster Gun with 360°, Z Swivel, Rubber Edged Follower Plate, Hose and Heavy Duty Metal Dolly	35/5	L6000	**4ZT49**

WESTWARD

Air-Operated Grease Pump Packages

5TCV0

- Pump ratio 50:1
- For NLGI 1 and NLGI 2 grease

Include drum cover, rubber lined follower plate, and grease hose. A grease control gun with 360° Z-swivel comes with all except 5TCV3.

Fits Container Size	Volume per Minute	Hose Length	Max. Pressure	Item No.
Grease Pump				
400 lb/55 gal Drum	1.76 lb	10 ft	5,800 psi	**5TCV3**
Grease Pump with Gun				
25 to 50 lb Container	2.4 lb	7 ft	5,750 psi	**3APE8**
35 lb/5 gal Pail	1.76 lb	13 ft	5,800 psi	**5TCU9**
35 lb/5 gal Pail	4 lb	13 ft	9,000 psi	**29FX02**
120 lb/16 gal Drum	2.4 lb	7 ft	5,750 psi	**3APE9**
120 lb/16 gal Drum	1.76 lb	13 ft	5,800 psi	**5TCV0**
400 lb/55 gal Drum	2.2 lb	7 ft	7,500 psi	**5NUE5**
400 lb/55 gal Drum	4 lb	13 ft	9,000 psi	**29FX04**
Portable Grease Pump with Gun				
25 to 50 lb Container	2.4 lb	7 ft	7,500 psi	**5NUE3**
120 lb/16 gal Drum	1.76 lb	13 ft	5,800 psi	**5TCV2**
120 lb/16 gal Drum	2.42 lb	7 ft	7,500 psi	**5NUE4**
120 lb/16 gal Drum	4 lb	13 ft	9,000 psi	**29FX03**

ARO

Air-Operated Grease Pump Packages

4KK63

- Pump ratio 50:1
- Max. pressure 7500 psi
- For NLGI 1 and NLGI 2 grease

Include air pump, air coupler/connector, pail/drum cover, follower plate, and high-pressure hose.

Fits Container Size	Volume per Minute	Hose Length	Air Motor Size	Mfr. Model	Item No.
Grease Pump with Gun					
35 lb/5 gal Pail	9 lb	10 ft	2 in	LP2002-1-B	**4KK63**
35 lb/5 gal Pail	7.5 lb	10 ft	3 in	LP3001-1	**4KK65**
120 lb/16 gal Drum	9 lb	10 ft	2 in	LP2004-1-B	**4KK64**
Grease Pump					
400 lb/55 gal Drum	7.5 lb	4 ft	3 in	LP3009-1	**4ZT13**
Portable Grease Pump with Gun					
120 lb/16 gal Drum	7.5 lb	10 ft	3 in	LP3003-1	**4KK66**

LIQUIDYNAMICS

Air-Operated Grease Pump Packages

6ANR2

- Pump ratio 60:1
- Volume per minute: 48 oz.
- For NLGI 1 and NLGI 2 grease

Fits Container Size	Volume per Minute	Hose Length	Max. Pressure	Item No.
Portable Grease Pump with Gun				
35 lb/5 gal Pail	48 oz	6 ft	7,200 psi	**6ANR1**
120 lb/16 gal Drum	48 oz	12 ft	7,200 psi	**6ANR2**

2DPK6

1YTF4

2DPN9

6WB21 (Drum Not Included)

LINCOLN

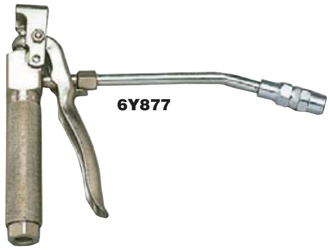
Air-Operated Grease Pump Packages

- For NLGI 1 and NLGI 2 grease

Include pail/drum cover, air connecting hose, high-pressure grease connecting hose with grease gun, and follower plate.

Fits Container Size	Type	Pump Ratio	Volume per Minute	Hose Length	Max. Pressure	Mfr. Model	Item No.
Grease Pump							
120 lb/16 gal Drum	Stationary	50:1	80 cu in	5 ft	7,500 psi	918	**2DPK3**
120 lb/16 gal Drum	Stationary	50:1	90 cu in	5 ft	7,500 psi	1418	**2DPK5**
400 lb/55 gal Drum	Stationary	50:1	80 cu in	5 ft	7,500 psi	926	**6WB23**
400 lb/55 gal Drum	Stationary	50:1	90 cu in	5 ft	7,500 psi	1426	**2DPK6**
Grease Pump with Gun							
25 to 50 lb Container	Stationary	40:1	5 cu in	7 ft	4,000 psi	4489	**6WB20**
25 to 50 lb Container	Portable with Pail Cover	50:1	80 cu in	7 ft	7,500 psi	9989	**2DPN9**
Portable Grease Pump with Gun							
25 to 50 lb Container	With Band Dolly	40:1	5 cu in	7 ft	4,000 psi	4459	**6WB19**
25 to 50 lb Container	With Roll Around Base	50:1	80 cu in	7 ft	7,500 psi	989	**1YTF4**
120 lb/16 gal Drum	With Band Dolly	40:1	5 cu in	7 ft	4,000 psi	4417	**6WB21**
120 lb/16 gal Drum	Portable with Caster Base	50:1	168 cu in	7 ft	7,500 psi	9917	**2DPN8**
120 lb/16 gal Drum	With Band Dolly	50:1	80 cu in	7 ft	7,500 psi	6917	**36P444**
120 lb/16 gal Drum	With Roll Around Base	50:1	80 cu in	7 ft	7,500 psi	917	**6WB22**

4ZT53



6Y877

legacy LINCOLN WESTWARD

Grease Control Guns & Valves

Item	Inlet (in.)	Outlet (in.)	Max. Pressure (psi)	Mfr. Model	Item No.
Legacy					
Booster Gun	¼ in NPT	Coupler	10,000 psi	LCG1-01	**6Y641**
Grease Control Gun	⅛ in (F)NPT	⅛ in (H)NPT	7,500 psi	LCG2	**4ZT53**
Lincoln					
High Pressure Control Handle	⅜ in (F)NPT	⅛ FNPT	7,500 psi	81495	**6Y914**
High Pressure Control Handle	¼ in (F)NPT	⅛ FNPT	7,500 psi	740	**6Y877**
Westward					
Booster Valve with Z Swivel	¼ in (F)NPT	⅛ FNPT	—	—	**1ZTD2**
Control Valve	¼ in (F)NPT	⅛ FNPT	7,500 psi	—	**1ZTD1**
Grease Control Valve	¼ in (F)NPT	⅛ FNPT	10,000 psi	—	**2CAN6**

1ZTC9

45FG56

WESTWARD LINCOLN legacy

Grease Gun Tool Kits

Description	Item No.
Westward	
(2) Adaptor Rings, Angled Lube Adaptor, Grease Injector Needle, Narrow Needle Nose, Pouch, Quick Connect Hose, Quick Connect Seal Off, Recessed Lube Adaptor, Right Angled Coupler	**1ZTC9**
Grease Coupler, Grease Hose, Grease Injector Needle, Needle Nose Dispense, Needlepoint Coupler, Pouch, Rigid Grease Extension, Straight Needle Point	**45FG56**
Lincoln	
12 in Hose, 360° Coupler, 90° Lube Tool, Needle Nozzle, Rubber Tipped Nozzle, Slide-on 90° Coupler, Straight Extension	**1XGN7**
Legacy	
Swivel Pad, Straight Needle Point Coupler, 90° Needle Point Coupler, Right Angled Needle Point Coupler, Right Angled Coupler, Rigid Grease Extension 8", Grease Whip 16"	**4ZT36**

LINCOLN

Wheel Bearing Packer

Clamps on to 25- to 50-lb. original refinery containers. For bearings 9½" with min. 9/16" I.D. Includes adapter for smaller bearings of 1" to 1¾" O.D.

H	W	Mfr. Model	Item No.
21	2.5	102929	**6Y907**

3APG3

45FF31

WESTWARD

Bearing Packer

Designed to make lubrication quick and easy.

Item	For Use With	Includes	Item No.
Rapid Action Bearing Packer	Grease Guns	Heavy Duty Dust Cover	**3APG3**
Bearing Packer	Grease Guns	Grease Nipple At One End	**13X054**
Bearing Packer	—		**45FF31**

Find our full selection of Grease Guns and Accessories at Grainger.com®.

Grease Fittings Kits

2CAN7

No. of Pieces	Includes	Item No.
Westward		
60	(8) ⅛"-27 PTF 45°, (8) ⅛"-27 PTF 90°, (15) ⅛"-27 PTF Straight, (25) ¼"-28 SAE-LT Straight (1) Professional Hand Coupler, (1) Air Operated Equipment Coupler, (1) Right Angled Coupler, (1) Needle Nose Dispenser	**2CAN7**
60	(12) M8-1mm 90°, (12) M6-1mm Straight, (12) M8-1mm Straight, (20) M10-1mm Straight (1) Professional Hand Coupler, (1) Air Operated Coupler, (1) Right Angled Coupler, (1) Needle Nose Dispenser	**2CAN8**
65	⅛"-27 PTF, ¼"-28 SAE-LT, M6-1mm Straight, M8-1mm Straight, Easy Out Tools, Small, Large, Grease Fitting Caps, Professional 4 Jaw Couplers,, Grease Fitting Thread Tester	**13X065**
100	(15) ⅛"-27 Straight, (10) ⅛"-27 45°, (10) ⅛"-27 90°, (15) ¼"-28 Straight, (10) ¼"-28 45°, (10) ¼"-28 90°, (10) Grease Fitting Caps Red, (10) Grease Fitting Caps Yellow, (10) Grease Fitting Caps Black,Plastic Case	**3APF4**
100	(15) M6-1mm Straight, (10) M6-1mm 90°, (15) M8-1mm Straight, (5) M8-1mm 90°, (15) M10-1mm Straight, (10) M10-1mm 90°, (10) Grease Fitting Caps Red, (10) Grease Fitting Caps Yellow, (10) Grease Fitting Caps Black,Plastic Case	**3APF5**
Lincoln		
100	(20) ⅛" NPT Straight, (40) ¼"-28" Straight Short Thread, (10) ¼"-28" 45°Short Thread, (10) ⅛" NPT 65°,(10) ⅛" NPT 90°,(10) ¼"-28" 90°Short Thread	**6Y864**
Kingfisher		
194	(36) ⅛"-27 Straight, (12) ⅛"-27 30°, (12) ⅛"-27 45°, (12) ⅛"-27 65°, (12) ⅛"-27 90°, (24) ¼"-28 Straight, (12) ¼"-28 45°, (12) ¼"-28 90°, (10) Green Grease Fitting Cap with Retaining Ring, (10) Yellow Grease Fitting Cap with Retaining Ring, (10) Red Grease Fitting Cap with Retaining Ring, (10) White Grease Fitting Cap with Retaining Ring, (10) Black Grease Fitting Cap with Retaining Ring, (10) Blue Grease Fitting Cap with Retaining Ring, (2) ¼, ⅛ Fitting Tools, Metal Case	**4RZK9**

4RZK9

Grease Fittings

- Find more Grease Fitting sizes and styles on Grainger.com®

Meet appropriate SAE and DIN requirements.

2PA89

52PA04

52PA07

Fitting Thread Size	Overall Length	Fitting Material	Grease Fitting Style	Brand	Item No.	Pkg. Qty.
Straight Head Angle						
M10-1.00mm	⅝ in	Stainless Steel	Standard	Westward	**52NZ95**	10
	⅝ in	Steel	Standard	Westward	**52NZ38**	10
M10-1.50mm	16 mm	Steel	Standard	Kingfisher	**1XGK5**	10
M6-1.00mm	14 ⅕ mm	Steel	Thread Forming	Kingfisher	**3APA8**	10
	⅝ in	Stainless Steel	Standard	Westward	**52NZ82**	10
	⅝ in	Steel	Standard	Westward	**52NZ27**	10
3⁄16"	½ in	Steel	Drive (Push-In)	Kingfisher	**2PA93**	10
	33⁄64 in	Stainless Steel	Drive (Push-In)	Westward	**52NZ78**	10
	17⁄32 in	Steel	Drive (Push-In)	Westward	**52NZ26**	10
⅛"-27	49⁄64 in	Steel	Button Head	Kingfisher	**5PU34**	10
	21⁄32 in	Stainless Steel	Standard	Westward	**52NZ85**	10
	21⁄32 in	Steel	Standard	Westward	**52NZ29**	10
	27⁄32 in	Steel	Standard	Westward	**52NZ99**	10
⅛"-28	39⁄64 in	Steel	Standard	Kingfisher	**3ANZ2**	10
	39⁄64 in	Stainless Steel	Standard	Kingfisher	**3APA1**	5
¼"-18	53⁄64 in	Stainless Steel	Standard	Kingfisher	**2PA89**	10
	53⁄64 in	Steel	Button Head	Kingfisher	**5PU35**	10
	⅞ in	Steel	Standard	Westward	**52NZ34**	5
¼"-19	13⁄16 in	Steel	Standard	Kingfisher	**3ANZ3**	10
¼"-28	35⁄64 in	Stainless Steel	Standard	Westward	**52NZ73**	10
	35⁄64 in	Steel	Standard	Westward	**52NZ23**	10
90 ° Head Angle						
M10-1.50mm	21 mm	Steel	Standard	Kingfisher	**1XGK7**	10
⅛"-27	27⁄32 in	Stainless Steel	Standard	Westward	**52PA05**	10
	49⁄64 in	Steel	Thread Forming	Kingfisher	**3APA7**	10
	27⁄32 in	Steel	Standard	Westward	**52NZ59**	10
	31⁄32 in	Steel	Standard	Westward	**52PA18**	10
⅛"-28	¾ in	Steel	Standard	Kingfisher	**3ANZ8**	10
¼"-18	15⁄16 in	Steel	Standard	Kingfisher	**2PA87**	10
¼"-28	49⁄64 in	Stainless Steel	Standard	Westward	**52PA04**	10
	49⁄64 in	Steel	Standard	Westward	**52NZ48**	10
45 ° Head Angle						
⅛"-27	55⁄64 in	Stainless Steel	Standard	Westward	**52PA07**	10
	55⁄64 in	Steel	Standard	Westward	**52NZ57**	10
⅛"-28	61⁄64 in	Steel	Standard	Kingfisher	**3ANZ4**	10
¼"-18	1 ⅛ in	Steel	Standard	Kingfisher	**2PA86**	10
¼"-28	53⁄64 in	Stainless Steel	Standard	Westward	**52PA03**	10
	53⁄64 in	Steel	Standard	Westward	**52NZ49**	10

Easy Out Grease Fitting Tool Kits

5NUF2

No. of Pieces	Includes	Item No.
Grease Fitting and Installation Tool Kit		
101	⅛"-27 PTF [(22) Straight, (5) 30°, (10) 45°, (10) 65°, (10) 90°], ¼"-28 SAE-LT [(22) Straight, (10) 45°, (10) 90°], Easy Out Tool (Small), Easy out Tool (Large), Plastic Case	**5NUF2**
101	M6-1mm [(30) Straight, (5) 45°, (10) 90°], M8-1mm [(14) Straight, (5) 90°], M10-1mm [(20) Straight, (5) 45°, (10) 90°], Easy Out Tool (Small), Easy Out Tool (Large), Plastic Case	**5NUF3**
Easy Out Tool		
—	Hardened Tap for Retapping ¼-28 Holes, Screw Extractor for Removing Worn and Broken Grease Fittings	**15F208**

Oilers

Spout Style	Spout L (in.)	Cap.	Item No.
Pistol Grip Handle with Flat Base			
Rigid	4 in	6 oz	**2LAH2**
Flexible	7 in	1 pt	**2LAK4**
Pistol Grip Handle			
Rigid	4 in	6 oz	**2LAH7**
	6 in	1 pt	**2LAK3**
Flexible	5 in	6 oz	**2LAH8**
	5 in	6 oz	**2LAK2**
Thumb Operated Lever Handle			
Rigid	6 in	1 pt	**2LAH3**
	8 in	1 qt	**2LAH5**
Flexible	5 in	6 oz	**1EKE7**
	6 in	10 oz	**2LAJ6**
	7 in	13 oz	**2LAJ8**
	7 in	1 pt	**2LAJ1**
	9 in	16 oz	**21EM25**
	8 in	23 oz	**2LAH9**
	9 in	1 qt	**2LAH6**

- Tin-plated steel bodies except 2LAJ2 is plastic

2LAH7

2LAJ1

Reusable Sprayer

Refillable sprayer uses compressed air to deliver a uniform, controlled mist spray of bulk lubricants, penetrants, degreasers, solvents, and cleaners. 80 to 150 psi operating pressure. Top-fill carbon steel canister with blue enamel coating. Not for use with paint.

Cap. (oz.)	Dia. (in.)	H (in.)	Item No.
32	4 in	7 ⅞ in	**31ER19**

ARO® WESTWARD® Legacy

Heavy-Duty High Flow (Oil, ATF) Pumps

ARO Thunder Pumps—Stall-free, ice-free air motor design. 85dB. Include 2" bung adapter. ¼" FNPT air inlet.

Westward Pumps—Oil pumps come complete with bung nut. 3APF2 features all-metal, industrial-quality construction. With spigot and piping connectors. 3APE7 composite construction allows the pump to operate without using a lubricator unit in the air supply.

Pump Packages—4ZT12 and 5TCU6 include pump, control handle, meter (pts.), drum cover, and 6-ft. hose. 4TZ12 also has a band dolly.

45CT51's 3:1 pump transfers oils up to SAE 130 up to 30m; with 3.5m hose. 45CT52's 5:1 pump dispenses oils up to SAE 240 up to 50m; with hose reel. Both include steel trolley, air-operated oil pump, digital oil control gun, and miniature filter-regulator/lubricator combo with gauge.

Pump Ratio	Air Motor Size (in.)	Container Size	Working Flow Max. (gpm)	Max. Air Inlet PSI	Outlet Pressure Max. (psi)	Fluid Inlet Thread (in.)	Fluid Outlet Thread (in.)	Brand	Item No.
Pumps									
3:1	2	Stub	6	150	450	¾ FNPT	½ FNPT	Aro	**4KK55**
	2	55 gal.	6	150	450	¾ FNPT	½ FNPT	Aro	**4KK57**
	2 ½ in	Stub	3.7 gpm	115 psi	345 psi	1 FNPT	½ FNPT	Westward	**3APF2**
	2½	—	7.5	115	345	—	¾ MNPT	Westward	**5TCT8**
	2½	55 gal.	7.5	115	345	—	½ MNPT	Westward	**5TCU0**
	2½	275 gal.	7.5	115	345	—	½ MNPT	Westward	**5TCU1**
5:1	3	Stub	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK59**
	3	16 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK60**
	3	55 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK61**
	3	275 gal.	6	150	750	1½ FNPT	½ FNPT	Aro	**4KK62**
	—	Stub	4 gpm	145 psi	725 psi	1 FNPT	½ in FNPT	Westward	**3APE7**
	2½	2.8 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU2**
	2½	55 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU4**
	2½	275 gal.	6.6	115	580	—	¾ MNPT	Westward	**5TCU5**
Pump Packages									
3:1	2	16 gal.	6	150	450	—	—	Aro	**4ZT12**
	2 ½ in	16 gal	7.5 gpm	115 psi	345 psi	—	¾ MNPT	Legacy	**5TCU6**
	2 ½ in	55 gal	3.7 gpm	145 psi	435 psi	—	½	Westward	**45CT51**
5:1	2 ½ in	56 gal	4.7 gpm	145 psi	725 psi	—	½	Westward	**45CT52**

LINCOLN

Fluid Transfer Pumps

Transfer oil, diesel, kerosene, coolants, petroleum-based fluids, hydraulic oils, and automatic transmission fluid. Fit 16- and 55-gal. containers with 2" bung opening. 14U106 is FM Certified for gasoline transfer.

Includes	Max. Output	Mfr. Model	Item No.
Drum Pump			
6 Ft Hose	4 gpm	1335	**6WB29**
Rotary Pump			
8 ft Hose, Aluminum Nozzle and Hanger	10 gpm	1385-H	**14U105**
8 Ft Hose, Flame Arrestor And Vacuumbreaker, Non-sparking Dispensenozzle And Hose Holder	10 gpm	1387	**14U106**

WESTWARD® Legacy LubriMatic®

Fluid Transfer Pumps

Lever-Action—5NUD4 is for dispensing oils and antifreeze from 15- to 55-gal. drums.

5NUD5 is for dispensing heavy oils from 5-gal. pails. Handle has 3 settings for use with oils of different viscosities.

Rotary—Westward pumps come complete with 2" cast-iron bung nut and 3-pc. threaded suction tube for use on 15- to 55-gal. drums. 5NUD6 works in both directions, to empty and refill drums.

41AA65 transfers light- to medium-viscosity noncorrosive petroleum-based fluids from 55-gal. containers. 1 gal. per 18 revolutions. Spout O.D. 1$\frac{1}{16}$".

Includes	Type	Output	Brand	Item No.
Lever Action Barrel Pump				
1½" and 2" Drum Bung, Steel Discharge Spout, and Telescopic Suction Tube	Lever Action	10 oz. per Stroke	Westward	**5NUD4**
Adjustable and Telescoping Pipe	Oil	10 oz./Stroke	Legacy	**4ZT37**
Lever Action Bucket Pump				
18" Pump with 12" Drum Cover, and 4-ft PVC Hose with Steel Discharge Spout	Oil	Up to 4 oz per Stroke	Westward	**5NUD5**
Rotary Transfer Pump				
Cast Iron Pump and Handle with Steel Discharge Spout	Oil	8.5 oz. Per Rotation	Westward	**5NUD6**
Aluminum Die Cast Pump and Handle with Security Locking Latch and Steel Discharge Spout	Oil and Fuel	7 oz. Per Rotation	Westward	**5NUD7**
Aluminum Die Cast Pump and Handle with Security Locking Latch and Steel Discharge with 8-ft. Discharge Hose	Oil and Fuel	1 Pint Per Rotation	Westward	**5NUD8**
Cast Iron 2 Vane Pump, 42" Steel Suction Pipe, 7oz. Per Stroke	Single Direction	—	Lubrimatic	**41AA65**

WESTWARD®

Downstroke Flow Pump

For use with 5-gal. containers with plastic pull out (Rieke® spout) or 2” external threads. Choice of 7 adapters for use with most metal and plastic containers.

Hose Length	Output	Item No.
48"	Up to 1.9 oz./stroke	**21EM38**

WESTWARD® LINCOLN

Suction and Transfer Guns

Evacuates and dispenses fluids. 3APG2 is a dual-direction transfer gun that draws in and pumps out liquid in a single stroke.

Hose Length	Cap.	Brand	Item No.
Transfer Gun			
4 ft	12 oz	Westward	**3APG2**
Suction Gun			
12 in	16 oz	Westward	**1ZTC6**
12 in	16 oz	—	**44C503**
12 in	18 oz	Lincoln	**6WB11**

30RZ31

WESTWARD

In-Line Grease/Oil Meters

Measure the flow rate in grease/oil filling systems.

Item	Operating Pressure (psi)	Dial/Digit Totals	Dial Graduation	Item No.
Digital Grease Meter	8,000 psi	9999 lbs.	—	**30RZ31**
Digital Oil Meter	1,000 psi	99999.9 Units	0.001 Units	**15F217**
Mechanical Oil Meter	1,000 psi	99999.9 qt	0.10 qt	**15F216**

Legacy

Hose Reel Kits

Reels consist of heavy-gauge steel with corrosion-resistant components. Mount in a variety of positions.

Grease Hose Reel Kit—Comes complete with booster gun, 3-ft. lead-in hose with swivel, and 50-ft. grease hose.

Oil Hose Reel Kit—Includes electronic metered oil control gun with 14" flexible extension, 3-ft. lead-in hose with swivel, and 50-ft. oil hose.

4ZT52

Item	Max. Pressure (psi)	Mfr. Model	Item No.
Grease Hose Reel Kit	5,000 psi	L8515K	**4ZT51**
Oil Hose Reel Kit	2,000 psi	L8525K	**4ZT52**

ALEMITE

Multi-Pressure Bucket Pump

Three-position adjustable lever adapts pump to lubricant type and operating conditions.

Cap.	Outlet Pressure Max. (psi)	Outlet Size	Output	Includes	Item No.
5 gal.	5000	⅜" NPTF	0.33 oz. per Stroke	Button Head Fitting, Hose and Coupler Assembly, Plug Button	**48WC51**

6Y878

6WB36

5TCV8

33RL88

Fluid Control Meters

LINCOLN WESTWARD

Use to dispense measured volume of oil and other fluids. 6Y879 features preset countdown indicator up to 60 qt.

Item	Operating Pressure (psi)	Dial/Digit Totals	Dial Graduation	Mfr. Model	Item No.
Lincoln					
Analog Oil Meter	1,000 psi	16 qt	¼ qt	877	**6Y878**
Oil Control Valve	1,000 psi	—	—	758F	**6WB35**
Oil Control Valve	1,000 psi	—	—	776	**6WB34**
Analog Oil Meter	1,000 psi	60 qt	1 qt	3867	**6Y879**
Electronic Lube Meter	1,500 psi	10 gpm	pint/qt/L/gal	980	**6WB36**
Digital Oil Meter	1,500 psi	L or gal	L/gal	967	**6Y912**
Westward					
Oil Control Gun	—	—	—	—	**5TCV8**
Digital Oil Control Gun	1,000 psi	999,999.9 Units	0.001 Units	33RL88	**33RL88**

WESTWARD

Gear Oil Pump

Includes pump, 5-gal. container, cover, 5-ft. hose, and discharge spout.

Description	Item No.
Lever-Action Handle	**5TCU8**

High Flow Transfer Pumps

LINCOLN Legacy

LINCOLN

Single-Acting Oil Pumps—Self-priming. 1XGN6 is designed for placement in 25- to 275-gal. bulk tanks with supplied bung bushing.

Bare Stub Oil Pumps—1XGP1 self-priming pump develops a suction head up to 25 ft. of oil after priming.

LEGACY

Stub Design—Pumps are nonicing and have muffled exhaust. Each includes 2" bung adapter. Optional Telescopic Suction Tube 4ZT43 is available to fit bulk tank containers. (Not for use with waste oil.)

1XGN6

Note: Choose the pump ratio for your particular application: 1:1 High Volume for transfer through short runs with small pressure drops. 3:1 Medium Volume for use in portable and stationary oil distribution systems composed of pipelines and/or hose reels and fluid meters. 5:1 Heavy-Duty High Volume for use in oil distribution systems with long pipelines and/or hose reels and fluid meters. Pump to multiple bays simultaneously.

Pump Ratio	Consumption @ 100 psi	Min. Air Inlet Pressure	Max. Air Inlet psi	Max. Output	Air Inlet (in.)	Fluid Inlet Thread (in.)	Fluid Outlet Thread (in.)	Pump for Multiple Outlets	Mfr. Model	Item No.
Lincoln										
Single-Acting										
1:1	5 cfm	40	150	3.1 gpm	¼-18	2" Bung	½	Yes	4475	**1XGP4**
3.5:1	7 cfm	40	120	6.0 gpm	¼-18	2" Bung	½	Yes	4491	**1XGN6**
Bare Stub										
3:1	10 cfm	40	200	6.0 gpm	¼	1"F/1.5"M	½	Yes	282396	**1XGP1**
5:1	10 cfm	40	200	6.0 gpm	¼	1"F/1.5"M	½	Yes	84933	**1XGN9**
Legacy										
Stub Design										
1:1	7 cfm	40	140	14 gpm	¼	1	¾	No	L3510	**4ZT44**
3:1	5 cfm	40	140	9.25 gpm	¼	¾	¾	Yes	L3530	**4ZT45**
Optional Accessory										
Telescopic Suction Tube									L3503	**4ZT43**

2DPN3

LINCOLN

Air-Operated Oil Transfer Pump Systems

- Min. psi Inlet: 40
- Max. psi outlet: 200
- Max. flow: 6 gpm

Pump Ratio	Container Size	Includes	Mfr. Model	Item No.
3:1	55 gal.	Air Coupler, Air Nipple, Bung Bushing, Lubricant Hose and Air Hose, Volume Union Elbow	2424	**2DPL2**
3:1	250/275 gal.	Air/Lubricant Hose and Bung Bushing, Universal Suction Tube Kit	284168	**2DPL4**
5:1	16 gal.	Roll Around Base, Shut Off Valve	2535	**2DPN3**

WESTWARD

Water-Based Parts Washers and Accessories

4KTV7

4KTV6

4KTV9

35MT16

- Powder-coated steel construction
- 120V/60Hz

Fully flexible nozzle and fusible link automatically closes the lid in case of fire. Double driving pump for higher cleaning efficiency. 4KTV8 has 4 swivel casters for easy movement. 2 casters have brake function.

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Brand	Item No.
Water Based Parts Washer											
20 gal	30 in	20 ⅝ in	7.88 in	37 in	316 gph	No	No	Large Drying Shelf and Removable Drain Tank, Oil Tray	20 Gauge Steel Moble Work Cart	Westward	**4KTV7**
20 gal	30 in	20 ½ in	10.5 in	34 ½ in	264 gph	No	No	Large Components Shelf and Small Parts Tray	20 Gauge Steel Work Stand	Westward	**4KTV6**
3.5 gal	17 in	13 in	8.5 in	9 in	264 gph	No	No	Components Shelf	Bench Top	Westward	**4KTV9**
40 gal	43 in	20 ½ in	10.5 in	35 in	316 gph	No	Yes	Large Components Shelf and Small Parts Tray	18 Gauge Steel Work Stand	Westward	**4KTV8**
Aqueous Duel Basin Parts Washer											
40 gal	43 in	20 ⅝ in	10.25 in	35 in	316 gph	No	Yes	Lift Off Cover with Safety Plate	18 Gauge Steel Work Stand	Westward	**35MT16**

Description	Type	Brand	Item No.
Parts Washer Accessories			
Cleaning Brush with 1½"L Nylon Bristle and Tapered Wood Handle	Round	Westward	**20Y118**
Oil Sorbent Pads, 16" x 20", Pkg. of 25	Single Ply	—	**20Y117**
Flow-Thru Nylon Bristle Brush with 2-ft. Flexible Hose	20 in Hose Length	Westward	**20Y119**

45TV51

45TV52

CRC

Water-Based Parts Washers

SmartWasher® bioremediating parts washing systems are conveniently packaged with high-performing, heavy-duty SW4 OZZY JUICE® water-based cleaning/degreasing solution and FL-4 OZZYMAT multilayer filter to remove oil, grease, and other contaminants from parts. The process is designed to help avoid the need to replace cleaning solution, reducing downtime, and to eliminate hauling and disposal of hazardous waste fluid.

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Series	Item No.
Thermoplastic Moble Work Cart										
15 gal	27 in	23 in	8 in	50 in	300 gph	No	Yes	(3) 5 gal SW4 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW23 Unit	SW-423	**45TV51**
15 gal	27 in	23 in	8 in	50 in	300 gph	No	Yes	(3) 5 gal SW7 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW23 Unit	SW-723	**45TV54**
25 gal	33 in	27 in	8 in	55 in	300 gph	No	Yes	(5) 5 gal SW4 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW37 Unit	SW-437	**45TV52**
25 gal	33 in	27 in	8 in	55 in	300 gph	No	Yes	(5) 5 gal SW7 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW37 Unit	SW-737	**45TV53**
Thermoplastic Work Stand										
25 gal	22 ½ in	30 in	8 in	47 in	300 gph	Yes	Yes	(2) Brush Stations, Light Kit, Parts Basket	SW-28XE SuperSink XE	**45TV46**
25 gal	22 ½ in	30 in	8 in	42 in	300 gph	No	Yes	(5) 5 gal SW4 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW28 Unit	SW-428 SuperSink	**52GZ94**
25 gal	22 ½ in	30 in	8 in	42 in	300 gph	No	Yes	(5) 5 gal SW7 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW28 Unit	SW-728 SuperSink	**52GZ96**
25 gal	22 ½ in	30 in	8 in	42 in	300 gph	Yes	Yes	(5) 5 galSW4 OzzyJuice(R) Fluid, FL4 OzzyMat(R) Filter, SW28XE Unit	SW-428XE SuperSink	**52HA01**

Description	Mfr. Model	Item No.
Accessories		
SmartWasher® FL-3 OZZYMAT™ Single Layer Fluid Activation Mat	14149	**5YK88**
SmartWasher® FL-4 Ozzymat™ Multi-Layer Fluid Activation Mat	14124	**1CXK2**

453D06

Solvent-Based Parts Washers

ZEP PROFESSIONAL

- All steel construction
- Spring-loaded lids with 165° fire link
- Directional spouts with On/Off control

Washers circulate solvents to remove grease and oil from automotive parts. Filters trap contaminants to extend solvent life. Dyna-Trap filter bags remove oils and greases from solvent. Only the filter elements are disposed of. Fire links close lids automatically in the event of a fire.

Item	Type	Mfr. Model	Item No.
Parts Washer Accessories			
Dyna Trap Filter Bag	—	903402	**43NR87**
Filter Bag	—	F77302	**449V13**
Filter Cartridges 5110	10 Micron	904902	**453D26**
Filter Cartridges 5150	50 Micron	905502	**43NR88**
Flex Hose	—	PWP0095	**54ZT05**
Parts Washer Filter	—	900402	**54ZR81**
Parts Washer Filter Bag	—	903401	**54ZR85**

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Item No.
Solvent Parts Washer										
30 gal	32 in	22 in	10 in	40 in	168 gph	No	Yes	(2) Dyna Trap Filter Bags, (4) 5 gallon pails of Dyna 143, Dyna Clean Parts Washer System, Oriflo Brush	30 gal Drum Pedestal	**453D06**

Graymills

Solvent-Based Parts Washers and Chemicals

- Powder-coated steel construction
- 115V/60 Hz

Manual washers feature fusible safety link that closes the lid in event of fire. Deluxe Drum-Mount and Clean-O-Matic washers comply with most freeboard compliance regulations. All units are ETL Certified for U.S. and Canada.

Clean-O-Matic—Provide 3-way cleaning action delivered by directed steam, flush hose, or in-tank agitation. 4KTX1 also includes casters. 4KTX2 is sized for engine blocks, transmissions, and compressors.

Handi-Kleen—Tanks have bottom drains for easy cleanout. 3Z746 work shelf supports parts above fluid level and is removable for access to soak tank. Features flush hose and filter basket.

Solvent Drum Mount—Can be placed at jobsite for on-the-spot cleaning. Proprietary retractable pump reduces lifting height to minimize back strain.

Aqueous—Heated washer converts soak-to-sink and back again for configurations tailored to your needs. Corrosion-resistant construction with thermostatically controlled heat up to 110°F and GFCI protection.

4KTX1

3Z746

3Z901

38ZK81

Tank Cap.	Basin Dim. (in.) L	W	Depth	Overall H (in.)	Pump Size	Work Light	Filtration	Includes	Type	Mfr. Model	Item No.
Solvent Parts Washer											
Clean-O-Matic™											
42 gal	32 in	21 in	10 in	37 in	2,400 gph	No	Yes	Agitation Manifold, Flush Hose, Removable Work Shelf, Spray Nozzle	16 Gauge Steel Work Stand	500-A	**4KTX1**
117 gal	38 in	28 in	17 in	38 in	2,400 gph	No	Yes	Agitation Manifold, Flush Hose, Removable Work Shelf, Spray Nozzle	16 Gauge Steel Work Stand	900-A	**4KTX2**
Handi-Kleen™											
15 gal	29 ½ in	15 ½ in	6 in	39 in	400 gph	No	Yes	Removable Workshelf and Small Parts Basket	16/18 Gauge Steel Work Stand	PL36-A	**3Z746**
42 gal	36 in	22 in	10 in	39 in	400 gph	No	Yes	Removable Workshelf and Small Parts Basket	16/18 Gauge Steel Work Stand	PL422-A	**3Z814**
Solvent Drum Mount											
16 gal	32 in	18 in	8.75 in	37 ½ in	170 gph	Yes	Yes	Worklight and Retractable Pump	16 gal Drum Pedestal	DMD232	**3Z901**
30 gal	36 in	20 in	8.75 in	39 ½ in	170 gph	Yes	Yes	Worklight and Retractable Pump	30 gal Drum Pedestal	DMD236	**3Z986**
Aqueous Parts Washer											
Aqueous											
30 gal	35 in	21 ½ in	9 in	38 in	300 gph	No	Yes	Flush Hose, Removable Work Shelf, Work Brush	Thermoplastic Moble Work Cart	PH922-A	**38ZK81**

Item	For Use With Mfr. Model Number	Mfr. Model	Item No.
Parts Washer Accessories			
Cleaning Parts Brush	—	3B-G	**45NW40**
Flow-Thru Brush	—	6A	**45NW41**
Parts			
Gasket	500A, 800A, 900A	744-06266	**21XJ08**
Gloves(1 Left/1 Right),PR	TEMPEST-10, TEMPEST-10S, TEMPEST-20S	605-27346	**21XH73**
Link Assy	500A, 800A, 900A	C-43309	**21XH82**
Pump	BIO436R-A, DH226A, PH822-A, TL17-A	390-09663	**21XJ31**
Pump and Motor	DMD232, DMD236	390-06940-08	**21XH88**

Parts Washer Chemicals

Bio-Circle®—Bio-remediating parts cleaners and degreasers safely remove grease, oil, and grime from all steels and most aluminum alloys. Cleaners are nontoxic, VOC-free, and safe on skin.

B'laster®—Removes oil, grease, and grime from metals, most plastics, and painted surfaces without leaving any residue.

CRC®—Aqueous, industrial-strength degreasing solutions are PH-neutral, VOC-free, noncorrosive, and biodegradable. For parts cleaning in preventative maintenance and repair facilities, industrial manufacturing plants, automotive repair shops, and metal fabrication facilities.

Graymills—Solvents are for cleaning in Graymills parts washers. Biodegradable aqueous cleaners remove organic and inorganic soils including grease, oil, epoxy, paint, plating salt, and rust. Bioremediating aqueous cleaners are pH-neutral to help the microbial process in Graymills parts washers.

Oil Eater®—Powerful formulas dissolve grease and grime from almost any surface; feature anticorrosion chemistry.

ZEP—Solvents are safe to use on all metals. They leave a light oil film to protect against rust and corrosion. Solvents with citrus are for extra cleaning power. Recirculating spray wash detergent is for hot vat or recirculating spray wash cabinets.

4TKJ7

16W543

45TV50

2W352

4NHH6

449V39

Description	For Use With	Type	Size	Flash Point (°F)	Color	Mfr. Model	Item No.
Bio-Circle							
BIO-CIRCLE L™ Parts Washer Cleaning Solution	BIO-CIRCLE(R) parts cleaning	Water Based	5.2 gal	None	Cloudy	55A007	**4TKJ7**
BIO-CIRCLE L™ Parts Washer Cleaning Solution	BIO-CIRCLE(R) parts cleaning	Water Based	55 gal	None	Cloudy	55A008	**4TKJ8**
BIO-CIRCLE ULTRA™ Parts Washer Cleaning Solution	BIO-CIRCLE(R) parts cleaning	Water Based	5.2 gal	None	Cloudy	55A107	**38N831**
CB 100™ Cleaner Degreaser	53G167K, 53G167MK, 55D020K, 55D020MK, Mfr. No. 55D010	Aqueous	5.3 gal	248°	Clear	53G167	**34NK13**
CB 100™ Cleaner Degreaser	53G167K, 53G167MK, 55D020K, 55D020MK, Mfr. No. 55D010	Aqueous	55 gal	248°	Clear	53G168	**34NK14**
Blaster							
Parts Washer Solvent	Solvent Parts Washers	Solvent	1 gal	145°	Clear	128-PWS	**16W543**
CRC							
OzzyBooster® Microbial Enhancer Parts Washer Cleaning Solution	SmartWasher Parts Washer	—	8.5 oz	Less Than 200°	Blue	14131	**19MY23**
OzzyJuice® SW-3 Parts Washer Cleaning Solution	Truck Grade Degreasing	Water Based	5 gal	None	Clear	14720	**45TV48**
OzzyJuice® SW-4 Parts Washer Cleaning Solution	Heavy Duty Degreasing	Water Based	5 gal	None	Orange	14148	**5YK87**
OzzyJuice® SW-7 Parts Washer Cleaning Solution	Parts/Brake Cleaning	Water Based	5 gal	None	Clear	14721	**45TV49**
OzzyJuice® SW-8 Parts Washer Cleaning Solution	Aircraft & Weapons Degreasing	Water Based	5 gal	None	Clear	14722	**45TV50**
OzzyJuice® SW-8 Parts Washer Cleaning Solution	Aircraft & Weapons Degreasing	Water Based	55 gal	None	Clear	14724	**52GZ75**
OzzyJuice® SW-X1 Parts Washer Cleaning Solution	SmartWasher Parts Washer	Water Based	5 gal	200°	Clear	1751304	**54ZX18**
Graymills							
Aquatene 330 Biodegradable Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal	None	Green	GM330-C5	**5W274**
Regular Agitene™ 141 Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal	141°	Blue	M2062-141	**12Y139**
Super Agitene™ Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal	105°	Green	M5005	**2W352**
Super Agitene™ 141 Parts Washer Solvent	Metal, Plastics and Painted Surfaces	Solvent	5 gal	141°	Green	M5005-141	**2RE49**
Super Biotene™ 550 Bioremediating Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal	None	Brown	GM550GR	**4WT03**
Turbo Biotene™ 880 Bioremediating Aqueous Cleaners	Water-Based Parts Washing	Water Based	5 gal	None	Clear	GM880-5	**12Y141**
Oil Eater							
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	1 gal	None	Yellowish	AOD1G35437	**4NHH6**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	5 gal	None	Yellowish	AOD5G35438	**4NHH7**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	30 gal	None	Yellowish	AOD3035444	**4NHH8**
Parts Washer Cleaning Solution	Cleaner & Degreaser	Water-Based	55 gal	None	Yellowish	AOD5535389	**4NHH9**
Parts Washer Cleaning Solution with Orange	Cleaner & Degreaser	Water-Based	5 gal	None	Orange	AOD5G11904	**4NHJ1**
Parts Washer Cleaning Solution with Orange	Cleaner & Degreaser	Water-Based	55 gal	None	Orange	AOD5511906	**4NHJ2**
Zep							
Parts Washer Solvent	Solvent Parts Washers	Solvent	55 gal	143°	Clear	1041638	**4UZE7**
Parts Washer Solvent with Citrus	Solvent Parts Washers	Solvent	5 gal	142°	Clear	1041597	**4UZE8**
Recirculating Spray Wash Detergent	Spray Wash Systems	Powder	40 lb	None	White	1041743	**4UZF1**
Citrus Parts Washer Cleaning Solvent	Solvent Parts Washers	Petroleum/D-Limonene	55 gal	142°	Clear Colorless	1041639	**4UZE9**
Dyna 143 Parts Washer Solvent	Solvent Parts Washers	Solvent	5 gal	143°	Clear	036635	**43NT10**
Dyna 143 Parts Washer Solvent	Solvent Parts Washers	Solvent	20 gal	143°	Clear	36650	**449V39**
Zone Defense Parts Washer Cleaning Solution	Solvent Parts Washers	Solvent	5 gal	142°	Clear Yellowish	J32835	**453D44**

4CWJ7

Hydraulic Service Jacks

Feature dual-leveling mechanism and reinforced flanged side frames. Air/Hydraulic models with T-handle house the air connection and release valve for operation.

Lifting Capacity	Lifting Height Min.	Max.	Lifting Range	Chassis Length	Handle Length	Item No.
Hydraulic Service Jack						
2 ton	4 ½ in	20 in	15 ½ in	28 ½ in	48 in	**4CWJ6**
3 ton	5 ¼ in	23 ½ in	18 ½ in	31 ½ in	50 in	**4CWJ7**
4 ton	5 ½ in	26 ½ in	21 in	48 in	51 ¾ in	**4CWJ8**
10 ton	6 ¾ in	25 ½ in	18 ¾ in	53 ½ in	56 in	**4CWK1**
Air/Hydraulic Service Jack						
4 ton	5 ½ in	26 ½ in	21 in	48 in	51 ¾ in	**4CWK4**
10 ton	6 ½ in	25 ½ in	19 in	54 in	53 in	**4CWK2**

Service Jacks

48NU10

- Side frame handles allow easy carrying
- Extra-wide wheels add stability under stress
- U-joint assembly for precise load control on 48NU10 and 48NU12
- Dual-piston speedy lift on 48NU11

48NU10 is all aluminum for strength and stability. 48NU11 and 48NU12 aluminum/steel design combines lighter weight and strength for long life.

Lifting Capacity	Lifting Height Min.	Max.	Lifting Range	Chassis Length	Handle Length	Item No.
Hydraulic Service Jack						
3 ton	4 in	18 ⅛ in	14 ¼ in	26 in	47 ½ in	**48NU10**
3 ½ ton	4 in	21 in	20 in	27 ½ in	52 in	**54HH22**
Hybrid Service Jack						
1 ½ ton	3 ½ in	14 in	10 ½ in	19 in	47 ½ in	**48NU11**
3 ton	4 in	19 in	15 in	19 in	47 ½ in	**48NU12**

56MD09

Hydraulic Service Jacks

56MD08 is all aluminum with 2-pc. side-mounted handle for easy handling. 56MD11 to 56MD14 have easy-to-use foot pedal helps with

lifting. Handle lock and release control are located in handle.

Lifting Capacity	Lifting Height Min.	Max.	Lifting Range	Chassis Length	Handle Length	Item No.
Hydraulic Service Jack						
2 ton	3 ¼ in	18 ⅝ in	13 ¾ in	25 ½ in	47 39/64 in	**56MD08**
3 ton	5 ¾ in	18 ½ in	15 in	24 ½ in	39 ½ in	**56MD09**
3 ½ ton	5 13/64 in	21 29/32 in	15 ¾ in	28 ½ in	50 in	**56MD10**
5 ton	6 in	22 in	15 ¾ in	56 in	43 in	**56MD11**
10 ton	6 19/64 in	22 in	20 in	60 in	43 ¼ in	**56MD13**
Air/Hydraulic Service Jack						
5 ton	5 ⅞ in	22 in	20 in	55 ¾ in	43 in	**56MD12**
10 ton	6 ⅜ in	22 in	20 in	61 13/64 in	43 ¼ in	**56MD14**

11N155

Air/Hydraulic Service Jack

Lifting Capacity	Lifting Height Min.	Max.	Lifting Range	Chassis Length	Handle Length	Mfr. Model	Item No.
Air/Hydraulic Service Jack							
6 ton	4 ¾ in	23 ¼ in	18 ½ in	48 in	47 ¾ in	FSJ-120	**11N155**
10 ton	7 in	27 in	20 in	53 ½ in	47 in	FSJ-200	**11N148**

32EY95

13X032

55ER91

Hydraulic Service Jacks

Equipped with a built-in bypass device to prevent damage to jack from overpumping.

Lifting Capacity	Lifting Height Min.	Max.	Lifting Range	Chassis Length	Handle Length	Item No.
Quick Lifting Function Service Jack						
2 ton	4 ⅜ in	20 in	15 ⅝ in	29 ½ in	49 ⅛ in	**34NK71**
Hydraulic Service Jack						
2 ton	3 ½ in	17 ¾ in	13 ¾ in	27 ⅛ in	47 ¼ in	**25WF43**
2 ½ ton	5 ½ in	15 ¼ in	9 ¾ in	22 in	19 ⅝ in	**1MZK7**
2 ½ ton	5 ½ in	19 ¼ in	4 ⅜ in	21 ¾ in	46 ⅛ in	**32EY95**
3 ½ ton	4 in	21 ⅝ in	17 ⅝ in	30 ⅞ in	49 ⅞ in	**13X032**
5 ton	7 in	27 in	20 in	55 ⅝ in	40 ⅝ in	**1ZKX6**
5 ton	6 ½ in	22 ¼ in	15 ¾ in	52 ¾ in	46 in	**5ML69**
10 ton	7 ⅛ in	27 ⅛ in	20 in	55 in	45 in	**1ZKX5**
10 ton	6 ⅞ in	27 in	20 ⅛ in	51 ½ in	45 ⅞ in	**5ML70**
Air/Hydraulic Service Jack						
5 ton	7 in	27 in	20 in	55 ⅝ in	47 ¼ in	**5M456**
10 ton	7 ⅛ in	27 ⅛ in	20 in	55 in	45 in	**1ZKX9**
Can Be Operated By Pedal Without Loading, Safety Valve Hydraulic Service Jack						
20 ton	7 ½ in	26 in	18 ½ in	—	49 ½ in	**55ER91**

Axle Jack 56MD15

End Lift 11N135

Truck Jack Stand 4CWL6

Air/Hydraulic Jacks

AXLE JACKS

5M459 has a capacity of 35 tons and a lift range up to 15⅜" on first ram piston. Second ram system has a capacity of 22 tons and a lift range up to 19½".

END LIFTS

4CWK6 and 4CWK5 feature a 3-way heavy-duty air valve for precise control. Lifting arms can be extended for greater versatility. Safety latch design has 5 auto safety lock positions to help prevent unintended lowering of load. 11N135 provides up to 30" of stroke. Pneumatic wheels ease maneuvering unit into position. Lifting saddles extend easily for a variety of lifting positions.

TRUCK JACK STANDS

Air jack and support stand all in 1 unit. Adjustable ram allows a variety of starting heights. 11N164 includes 10-ft. air hose and removable handle.

Lifting Capacity	Lifting Height Min.	Max.	Handle Length	Brand	Mfr. Model	Item No.
Air/Hydraulic Axle Jack						
20 ton	9 ¼ in	17 ½ in	39 ½ in	Hein-Werner	Hw93731	**4CWL1**
20 ton	9 in	19 ¾ in	52 ½ in	Hein-Werner	HW93733	**4CWL2**
22 or 35 ton	8 ⅛ in	19 ⅝ in	40 ⅞ in	Westward	5M459	**5M459**
22 ton	8 ½ in	17 in	41 ½ in	Westward	13X030	**13X030**
22 ton	8 ¼ in	20 ⅔ in	47 ¼ in	OTC	UA22	**56MD15**
22 ton	9 ¾ in	19 ¼ in	41 ½ in	Westward	3W929	**3W929**
25 ton	8 ¼ in	21 ½ in	53 in	Hein-Werner	HW93735A	**4CWL4**
25 ton	8 in	21 in	53 in	Gray	TSL-50	**11N139**
27 ½ ton	8 ¼ in	21 ⅜ in	48 ¾ in	OTC	UA27	**61NZ77**
30 ton	11 ⅛ in	18 in	40 ¾ in	Westward	13X031	**13X031**
35 ton	9 ¼ in	22 in	58 in	Gray	TSL-70	**36G634**
Air Operated End Lift						
2 ½ ton	11 in	35 ⅜ in	—	Hein-Werner	HW93696A	**4CWK6**
10 ton	12 ½ in	46 in	—	Hein-Werner	HW93690	**4CWK5**
10 ton	14 in	50 in	22 in	Gray	KL-20	**11N135**
Air Jack Stand						
10 ton	17 ¾ in	40 in	38 in	Hein-Werner	HW93737A	**4CWL6**
10 ton	17 ½ in	52 ½ in	29 in	Gray	TAJS-2000	**11N136**
10 ton	17 ¾ in	40 in	38 in	Hein-Werner	HW93737A	**4CWL6**
10 ton	18 ¼ in	51 ¼ in	40 in	OTC	1591B	**38EG21**
15 ton	17 ⅝ in	52 ¼ in	36 ½ in	Gray	TAJS-3000	**11N164**

1ZKX7 55PV42 35MT15 407K07 4YDW1 55PV48 23NR41

WESTWARD ENERPAC OTC

Hydraulic Bottle Jacks

Lifting Capacity	Lifting Height Min.	Max.	Extension Screw	Base Size	Brand	Item No.
Air/Hydraulic						
12 ton	9 ½ in	18 ½ in	3 ½ in	7 ⅞ in x 6 ⅜ in	Westward	**1ZKX7**
20 ton	9 ¾ in	18 ¾ in	4 in	8 ½ x 7 ¼ in	Westward	**1ZKX8**
Hydraulic						
2 ton	6 ⅝ in	13 5⁄16 in	2 9⁄16 in	4 9⁄16 in x 3 in	Enerpac	**55PV38**
	22 7⁄16 in	40 ½ in	—	4 9⁄16 in x 3 in	Enerpac	**55PV39**
3 ton	6 ⅝ in	13 5⁄16 in	2 9⁄16 in	4 9⁄16 in x 3 in	Enerpac	**55PV40**
5 ton	6 in	17 ¼ in	3 in	5 in x 3 in	Enerpac	**55PV41**
7 ton	5 ¼ in	8 ¼ in	—	2 ⅞ in x 6 ¼ in	Enerpac	**4YDW3**
8 ton	8 ⅞ in	17 ⅝ in	2 ¾ in	4 ¾ in x 4 ¾ in	Westward	**3ZC61**
	8 ⅝ in	17 ½ in	3 in	5 19⁄32 in x 3 ½ in	Enerpac	**55PV42**
10 ton	5 3⁄16 in	8 ¾ in	1 3⁄16 in	5 19⁄32 in x 3 ½ in	Enerpac	**55PV44**
	8 ⅝ in	17 ½ in	3 in	5 19⁄32 in x 3 ½ in	Enerpac	**55PV43**
	8 ¾ in	18 in	2 ⅜ in	6 ¾ in x 6 ⅝ in	Westward	**35MT15**
12 ton	9 ⅞ in	22 5⁄16 in	13 5⁄16 in	5 43⁄64 in x 6 1⁄16 in	OTC	**407K07**
15 ton	9 ¾ in	15 13⁄16 in	—	3 ⅝ in x 9 ⅜ in	Enerpac	**4YDW1**
	9 in	17 13⁄16 in	3 in	6 13⁄32 in x 4 13⁄32 in	Enerpac	**55PV45**
20 ton	9 3⁄16 in	18 3⁄16 in	3 in	6 ¾ in x 4 ¾ in	Enerpac	**55PV46**
30 ton	9 ½ in	18 7⁄16 in	3 in	7 ¾ in x 5 19⁄32 in	Enerpac	**55PV47**
	10 in	16 ⅛ in	—	3 ¾ in x 9 14/25 in	Enerpac	**23NR42**
35 ton	10 ⅛ in	16 ¼ in	—	4 ⅝ in x 10 in	Enerpac	**4YDW2**
50 ton	10 ¼ in	16 5⁄16 in	—	5 in x 10 15/79 in	Enerpac	**23NR43**
	10 ¼ in	15 ¾ in	—	8 ½ in x 6 ½ in	Enerpac	**55PV48**
100 ton	11 5⁄16 in	17 ⅜ in	—	7 3⁄16 in x 12 ⅞ in	Enerpac	**23NR41**

2EXX2 43Y926 21A478 54YK47

BAR'S LEAKS MAG 1 RENEWABLE LUBRICANTS Liquid WRENCH

Hydraulic Jack Oils

High-quality fluids help keep hydraulic systems running smoothly and efficiently.

Brand	Size	Item No.
Bar's Leaks	12.5 oz	**2EXX2**
Mag 1	32 oz	**43Y926**
Renewable Lubricants	1 qt.	**21A478**
Liquid Wrench	12 oz	**54YK47**
Liquid Wrench	32 oz	**54YK48**

AME INTL.

Jack Stand

- Sold as a Pair
- Pin Style

Sturdy, welded steel construction for superior strength and safety. Heavy-gauge steel frame helps prevent distortion or twisting.

Lifting Cap. (tons)	Height (in.) Min.	Max.	Base Size (in.)	Saddle Size (in.)	Item No.
2.5	13 in	21 ½ in	11 x 11	4 x 3¾	**33W484**
3	13 in	21 ½ in	12 x 12	4½	**33W485**
3	19 in	31 ½ in	19 ½ x 19 ½	4¼	**33W486**
4.5	9 ½ in	16 ½ in	11 x 11	2¾ x 4	**33W482**
22 ton	13 in	19 9⁄10 in	11 x 11	3 x 3½	**33W483**

4CWN4 12G749

Jack Stands

HEIN-WERNER AUTOMOTIVE

- Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Max.	Base Size (in.)	Saddle Size (in.)	Item No.
Ratchet Style					
3 ton	12 ⅛ in	19 in	9 x 7 ½	4 ½ x 1	**4CWN3**
6 ton	16 ⅜ in	25 ⅜ in	13 x 10 ½	5 x 1	**4CWN4**
Pin Style					
7 ton	9 ½ in	15 ¾ in	7 ½ x 7 ½	4½ x 2½	**4CWN5**
10 ton	20 in	31 ½ in	16 x 16	3 x 5¾	**12G750**
10 ton	30 in	52 in	19 x 19	3 x 5¾	**12G749**
25 ton	12 ¼ in	20 in	10 x 10	2¼ x 3½	**12G751**

1AVP8

Jack Stands

WESTWARD

- Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Max.	Base Size (in.)	Item No.
Ratchet Style				
6 (Per Pair)	15 ¾ in	24 ⅜ in	9 ¾ x 11 3⁄16	**13X035**
12 (Per Pair)	19 ⅞ in	30 ¼ in	12 ⅞ x 14 ⅝	**13X036**
Pin Style				
10 (Per Pair)	27 ⅞ in	47 ⅜ in	16 ⅛ x 16 ⅛	**4GU80**
22 (Per Pair)	12 ⅛ in	19 ⅝ in	9 ⅞ x 9 ⅞	**1AVP8**

1EAY6 56MD17

Jack Stands

OTC

- Recommend use in pairs

Lifting Cap. (tons)	Height (in.) Min.	Max.	Base Size (in.)	Mfr. Model	Item No.
Pin Style					
2 tons	9 ½ in	15 7⁄16 in	—	SA02	**56MD16**
12 tons	19 in	29 ½ in	16	1778B	**1EAY6**
12 tons	33 ¾ in	44 ¼ in	16	1779B	**1EAY7**
22 tons	13 ⅞ in	19 ⅞ in	—	S022	**56MD19**
Ratchet Style					
3 tons	12 in	17 11⁄16 in	—	S03	**56MD17**
6 tons	15 ½ in	23 13⁄16 in	—	S06	**56MD18**

OTC Lifetime Marathon Warranty®

36G633

Jack Stands

GRAY

- Sold as a Pair

Lifting Cap. (tons)	Height (in.) Min.	Max.	Base Size (in.)	Saddle Size (in.)	Item No.
Pin Style					
7 ton	9 ½ in	16 in	7 ½ x 7 ½	4.5 X 2.5	**11N147**
7 ton	12 in	20 in	9	4¾ x 2 ½	**36G633**
10 ton	20 in	32 in	14 x 14	4.5 x 3	**11N150**
10 ton	30 in	52 in	24	6¾ x 3	**36G640**
25 ton	12 in	20 in	10 x 10	3.38 X 2	**11N151**
25 ton	20 in	32 in	13 x 13	4.5 X 3	**11N152**
35 ton	21 in	33 ¼ in	13	5½ x 3½	**36G642**
35 ton	13 ½ in	21 in	10	3¼ x 3	**36G641**
35 ton	20 in	32 in	13 x 13	5 X 5	**11N176**
35 ton	31 ½ in	55 in	15 x 15	5 X 5	**11N177**

5ML71

11N145

4CWJ9

WESTWARD GRAY HEIN-WERNER AUTOMOTIVE OTC

Hydraulic Forklift Jacks

5ML71 is designed for lifting one corner of a forklift for the purpose of service and/or repair of forklift components. 4CWJ9, 11N145, and 11N154 lift pads manage most forklift configurations. 48XV70 handles most lift truck configurations with flat or edged surfaces.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Lifting Range	Base Length	Handle Length	Brand	Mfr. Model	Item No.
4 ton	3 in	17 ½ in	11 in	29 ¾ in	29 ½ in	Westward	5ML71	**5ML71**
4 ton	2 ¼ in	16 in	13 ¾ in	27 in	29 in	Gray	FLJ-400C	**11N145**
4 ton	2 ½ in	16 ½ in	14 in	—	25 in	Hein-Werner	HW93659	**4CWJ9**
4 ton	2 5⁄32 in	28 ¾ in	17 15⁄16 in	—	—	OTC	5214	**48XV70**
7 ¾ ton	2 ¼ in	16 in	13 ¾ in	27 in	27 in	Gray	FLJ-770B	**11N154**

OTC WESTWARD HEIN-WERNER AUTOMOTIVE GRAY

Transmission Jacks

Flexible saddles have both side and tilting angle adjustments to accommodate different shapes and sizes of transmissions and differentials. Fully-adjustable tilting heads.

1VW35

Lifting Cap. (lb.)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Base Size (in.)	Brand	Mfr. Model	Item No.
1,000 lb	7 ½ in	29 ¾ in	34 ½ in	OTC	1521A	**48XV55**
1,100 lb	9 in	24 ¾ in	31 ⅛ in x 15 in	Westward	1ZKY1	**1ZKY1**
2,000 lb	6 ⅞ in	35 ½ in	26 in	OTC	1522A	**48XV72**
	7 ⅞ in	33 ½ in	40 ¾ in x 19 ⅛ in	Westward	1ZKY3	**1ZKY3**
	10 ¼ in	44 ¾ in	28 ¼ in x 47 ½ in	Hein-Werner	HW93718	**4CWK7**
2,206 lb	8 in	34 in	28 ¼ in x 44 ½ in	Gray	MM-2000	**11N141**
3,000 lb	7 ⅞ in	37 ¼ in	46 ¾ in x 25 ⅝ in	Westward	1VW35	**1VW35**

55JC16

1MZK6

5JJL6

WESTWARD REESE™

Scissor and Farm Jacks

Scissor jack is perfect for emergency roadside assistance. Durable, multi-purpose farm jack has ratcheting design for controlled lift.

Lifting Capacity	Lifting Height Min.	Lifting Height Max.	Brand	Item No.
Scissor Jack				
1 ½ ton	4 ½ in	14 in	Westward	**55JC16**
Farm Jacks				
3 ton	5 ¼ in	39 ¾ in	Westward	**1MZK6**
3 ½ ton	4 ½ in	48 in	Reese	**5JJL6**
4 ton	4 ½ in	48 in	Reese	**45C166**

1VW31

WESTWARD

Hydraulic Toe Jacks

For very low clearance vehicles.

Lifting Capacity	Toe Height Min.	Toe Height Max.	Base Size (in.)	Handle Length	Item No.
5 ton	⅞	5¾	11 x 7½	23 ⅝ in	**1VW31**
10 ton	1	16	11¾ x 9	23 ⅝ in	**1AVP7**

1VW33

1VW34

WESTWARD GRAY

Auxillary and Tripod Stands

Designed to help prevent the tipping/rocking of a vehicle while the vehicle is engaged on an automotive lift.

Lifting Cap. (tons)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Saddle Size (in.)	Brand	Mfr. Model	Item No.
Auxiliary Stand						
0¾ ton	55 in	80 in	5 ¼ x 1 ½	Westward	1VW33	**1VW33**
Tripod Stand						
2 ton	67 in	76 in	5¼ x 1½	Westward	1VW34	**1VW34**
Vehicle Stands						
9 ton	48 ¾ in	84 in	5 X 5	Gray	9THR Stand	**11N153**

5M466

11N157

48XV44

WESTWARD OTC GRAY HEIN-WERNER AUTOMOTIVE

Transmission Lifts

Hydraulic—Metered release valve assures precise adjustment of saddle height and smooth lowering of load.

Air/Hydraulic—Air allows mounting head to rise rapidly in the first stage, while hydraulic power provides precision in the second stage.

Lifting Cap. (lb.)	Lifting Height (in.) Min.	Lifting Height (in.) Max.	Tilt Cap. (°) Front	Tilt Cap. (°) Rear	Tilt Cap. (°) Side	Base Size (in.)	Brand	Mfr. Model	Item No.
Hydraulic									
700 lb	57 ¼ in	76 ⅜ in	14.0 °	14.0 °	14 °	36 ⅛ in x 32 ⅝ in	Westward	1AVR4	**1AVR4**
1,000 lb	39 ½ in	78 ⅛ in	10.0 °	7.0 °	12 °	33 ⅝ in x 36 in	Westward	5ML72	**5ML72**
	35 in	71 ⅝ in	24 °	19 °	20 °	37 ⅛ in	OTC	TJH10	**787M98**
Air/Hydraulic									
1,000 lb	34 ½ in	72 in	40.0 °	20.0 °	10 °	41 in	Gray	HTJ-1000	**11N137**
	37 ¾ in	78 ⅛ in	12.0 °	7.0 °	12 °	33 ½ in x 36 ¼ in	Westward	5M466	**5M466**
	39 ⅞ in	77 ¼ in	35.0 °	18.0 °	11 °	41 ¼ in x 41 ¼ in	Hein-Werner	HW93720	**4CWK8**
1,650 lb	31 ½ in	74 ½ in	—	—	—	48 in	OTC	5285	**48XV44**
2,200 lb	48 ⅝ in	77 ⅜ in	45.0 °	30.0 °	15 °	42 ½ in x 39 ½ in	Westward	13X041	**13X041**
2,206 lb	30 in	72 in	10.0 °	10.0 °	10 °	42 in x 49 in	Gray	HTCJ-2000	**11N157**
2,500 lb	29 in	80 in	15.0 °	15.0 °	15 °	33 in x 48 in	OTC	1595A	**1EAW2**

5Z010

WESTWARD

Hydraulic Cranes

Adjustable boom allows for multiple lift capacities. Lift capacity diminishes as boom lengths are extended. 3ZC71 has adjustable front and rear legs. 3ZC72 features space-saver design for compact storage.

Boom Cap. Position	Boom Cap. (lbs.)	Boom Length (in.)	Hook Height (in.) Min.	Max.	Item No.
Hydraulic Cranes					
P1	1500	39⅛	9⅝	78⅛	5Z010
P2	1000	43⅛	5⅞	80¾	
P3	500	47⅛	2	83½	
P1	2000	47	12	85⅜	3ZC72
P2	1500	53	6¼	87¾	
P3	1000	59	¾	90½	
P1	4000	48¾	18⅜	69¼	3ZC71
P2	3000	57¾	14	75	
P3	2000	66¾	9¼	81	
P4	1000	76¾	5	86½	

Lifting Cap. (tons)	Fit Crane Nos.	Item No.
Hydraulic Replacement Crane Jacks		
4 ton	5Z010	5M471
8 ton	3ZC71, 3ZC72	5M472
Air/Manual Hydraulic Replacement Crane Jacks		
8 ton	3ZC71, 3ZC72	5M460

Floor Crane

GRAY

- A versatile, mobile shop crane with air/hydraulic pump
- Adjustable boom allows for multiple capacities in one crane
- Adjustable leg width: 22", 36", 50"

Hydraulic ram has metering release valve for lowering boom at a controlled rate. Legs easily adjust for clearance allowing user to move this floor crane where it's needed. Large 6"-dia. casters also make it easy to maneuver crane into position. Folds for compact storage.

Boom Cap. Position (lb.) 1	2	3	Boom Reach (in.) Extended	Retracted	Max. Boom HTG (In.) Extended	Retracted	Mfr. Model	Item No.
2,000 lb	1,900 lb	1,650 lb	48	33	125 in	22	SC220 Air	36G636
4,400 lb	3,800 lb	3,300 lb	50¾	35¾	130 in	119	SC440 Air	36G637

4CWN1

35YZ94

48XV56

HEIN-WERNER AUTOMOTIVE OTC

Engine Stands

Long rubber grip handle allows easy engine rotation. Head swivels 360° with an adjustable locking mechanism. Adapter arms hold engine secure for head and shaft removal.

Cap. (lb.)	Dim. (in.) L	W	H	Item No.
Hein-Werner				
1,250 lb	36 in	35 in	34 in	4CWN1
OTC				
1,000 lb	21 in	21 in	40 ½ in	48XV56
2,000 lb	59 in	16 in	24 in	35YZ94

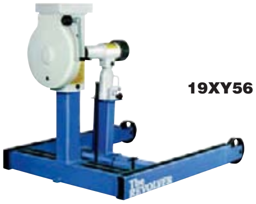
48XV29

54HH25

Mobile Floor Crane

OTC HEIN-WERNER AUTOMOTIVE

Boom Cap. Position (lb.) 1	2	3	Boom Reach (in.) Extended	Retracted	Max. Boom HTG (In.) Extended	Retracted	Mfr. Model	Item No.
OTC								
2,200 lb	1,650 lb	—	48 in	33 in	117 in	107 in	1819	48XV29
4,400 lb	3,300 lb	3,300 lb	50½	35½	122 in	111	1820	48XV30
6,000 lb	5,000 lb	4,000 lb	94¼	63¼	161 ⅞ in	139½	1813	48XV28
Hein-Werner								
—	5,000 lb	4,000 lb	—	—	—	6½, 18½, 30½	HW93806	4CWN2
4,400 lb	3,800 lb	3,300 lb	50 ¾ in	35 ¾ in	130 in	18 ½ in	HW93809	54HH25


19XY56

4CWL8

Diesel Engine Stand

OTC HEIN-WERNER AUTOMOTIVE

Swivels 360° with an adjustable locking mechanism.

Cap. (lb.)	Dim. (in.) L	W	H	Brand	Mfr. Model	Item No.
Engine Stands						
6,000 lb	56 in	48 in	35 in	OTC	1750	19XY56
6,000 lb	52 in	46 in	45 ¾ in	Hein-Werner	HW93776	4CWL8
Engine Stand Adapter						
Cummins Engine Adapter Plate				Hein-Werner	HW93776-1	12G753
Detroit Diesel Engines Adapter Plate				Hein-Werner	HW93776-2	12G754
Mack Engines Adapter Plate				Hein-Werner	HW93776-3	12G755
International Engines Adapter Plate				Hein-Werner	HW93776-4	12G756
Catepillar Engines Adapter Plate				Hein-Werner	HW93776-5	12G757
Allison Engines Adapter Plate				Hein-Werner	HW93776-6	12G758
Light Truck Engine Adapter Plate				Hein-Werner	HW93776-7	4CWL9
Cummins Engine Adapter Plate				OTC	205059	48XV51
Detroit Diesel MBE 900 Engines Adapter Plate				OTC	1750-47022	60HT09

41RC53

48XV27

1MZK8

GRAY HEIN-WERNER AUTOMOTIVE WESTWARD OTC

Load Leveling Sling

Designed to be used between an overhead lifting hoist and an unevenly weighted load. Adjustment is secured with locking bolts.

Item	Lifting Capacity	Item No.
Gray		
Engine Load Leveling Sling	6,000 lb	11N175
Hein-Werner		
Chain Sling	2,000 lb	12G736
Chain Sling	4,000 lb	12G737
Engine Load Leveling Sling	3 ton	12G735
OTC		
Engine Load Leveler	1,500 lb	48XV32
Lifting Brackets	2 ton	41RC53
Load Leveler	6,000 lb	48XV27
Load Rotor Sling	3,900 lb	61NZ76
Westward		
Engine Load Leveling Sling	1,500 lb	1MZK8
Engine Transverse Bar		1MZK1

11N216

52WP43

The Auto Dolly by Merrick Machine Co.

Auto Wheel Dollies

- Polyolefin Wheels

Use to move and position repair vehicle or equipment in any direction. V-shape effectively keeps wheel from rolling off dolly.

Lifting Cap.	Size	Mfr. Model	Item No.	Pkg. Qty.
Standard Duty				
1500 lbs per Dolly (6000 lbs. set of four)	8W x 16L x 4 in H	M998001	**3MHC4**	4
1500 lbs per Dolly (6000 lbs. set of four)	12W x 16L x 4 in H	M998002	**3MHC5**	4
1500 lbs per Dolly (6000 lbs. set of four)	16W x 16L x 4 in H	M998027	**3MHC6**	4
Heavy-Duty				
2500 lbs per Dolly (5000 lbs. pair)	16W x 16L x 4 in H	M998105	**11N216**	2
2500 lbs per Dolly (10,000 lbs. set of four)	12 in W x 16 in L x 4½ in H	M998035	**3MHC7**	4
Wall Mount				
Car Dolly Dock	4 in W x 16 in L x 8 in H	M998071	**52WP43**	1

1MZL5

WESTWARD
OTC

Truck Wheel Step

Load Capacity	W	L	H	Item No.
Westward				
300 lb	4 ⅝ in	22 ⅝ in	15 ¾ in	**1MZL5**
OTC				
300 lb	23 ½ in	23 ½ in	17 in	**53GK13**

Hydraulic Dual-Wheel Dolly

HEIN-WERNER AUTOMOTIVE

- Holds up to 52"-dia. tires and wheels
- Load levelers help with alignment
- Carriage arm rollers with self-lubricating bearings

Handles both dual wheels and large single wheels. Includes built-in tool/parts tray and 2 swivel ball bearing casters for easy positioning. Wide frame and lifting carriage.

14N884

Lift Range (lb.)	Lift Arms x Width (in.)	Lift Height (in.)	Tilt Range Deg.	Overall Dim. (in.) H	L	W	Item No.
1,500 lb	26 ½ in	4 to 9	+/-3°	32 in	39 in	39 ½ in	**14N884**

WESTWARD

Air-Actuated Pump

Internal check valve, eliminates pulsing and provides a consistent pressure. Used to operate and control hydraulic presses.

Cap. (psi)	Oil Cap. (cu. in.)	Air Inlet NPT (in.)	Fluid Port NPT (in.)	Item No.
10,000	91.5	¼	⅜	**5ML66**

1AVP9

11N143

60AG56

OTC GRAY

Truck Ramps

- Sold in pairs

Load Capacity	W	L	H	Item No.
Westward				
20 ton	13 ½ in	45 ⅝ in	9 ½ in	**1AVP9**
20 ton	18 ¼ in	45 ⅝ in	9 ½ in	**1MZK3**
Gray				
20 ton	15 in	51 in	9 in	**11N143**
Black Widow				
10,000 lb	12 in	35 ½ in	8 ½ in	**60AG56**

33W456

Truck Wheel Dollies

AME INTL.

Allow easy removal and installation of tire/rim assemblies and help reduce back injuries.

Description	Lift Range (lb.)	Lift Height (in.)	Lift Arms x Width (in.)	Tilt Range (Deg.)	Mfr. Model	Item No.
Single Truck Wheel Dolly						
For 19.5 to 24.5" tires	300 lb	4	28 ¾ in	45°	71300	**33W456**
For 22.5 to 24.5" tires	400 lb	6	29 in	45°	71320	**33W457**

19XY27

38EG39

48XV57

Wheel Dollies

OTC

AIR-OPERATED HYDRAULIC DUAL-WHEEL DOLLY

Effortless lift system with 6" lateral adjustment for a variety of applications. 4 swivel casters, 2 locking, for enhanced mobility.

HYDRAULIC WHEEL DOLLIES

Efficient method of moving a disabled vehicle. 19XY27 has an easy-to-use foot pedal that activates hydraulic lift mechanism. Fits tread widths up to 12". 4 easy rolling swivel casters. The hydraulic jack on 48XV57 provides almost 5" of lift and tilts wheel assembly 4° to prevent damage to wheel seal. 6-ft. chain holds load in place. Swivel casters for maneuverability.

Lift Cap.	Lift Arms x Width (in.)	Lift Height (in.)	Tilt Range Deg.	Overall Dim. (in.) H	L	W	Mfr. Model	Item No.
Air-Operated Hydraulic Dual Wheel Dolly								
1100 lb.	42 in	0 to 42	-8° to 15°	62 33⁄64 in	47 41⁄64 in	48 3⁄16 in	5105B	**38EG39**
Hydraulic Wheel Dolly								
1500 lb.	12 in	4	24.4°	27 17/100 in	9 in	44 in	1580	**19XY27**
1500 lb.	—	5	4°	36 ½ in	39 in	36 in	1770A	**48XV57**
Lever Wheel Dolly								
300 lb.	—	5	—	33 ½ in	—	26 in	5096A	**48XV62**

19XY20

3GZU3

OTC

Electric and Air/Hydraulic Pumps

3GZU3 includes remote 2-way, 2-position control valve. 19XY20 features a 2-stage release mechanism and internal relief valve.

Description	Mfr. Model	Item No.
Electric, ½ HP, 115VAC, 2. gal. Reservoir Capacity	4044	**3GZU3**
Air/Hydraulic	4020	**19XY20**

1MZJ1

46KJ39

1MZH7

6RKW1

48NU03

45AE93

55JV47

48NT99

Creeper Seats

Maximum Load Capacity	Seat Height	Frame Material	Overall Width	Overall Length	Caster Wheel Diameter	No. of Wheels	Brand	Item No.
Creeper Seat								
Adjustable								
250 lb	17 5⁄16 in to 21 5⁄16 in	Steel	15 in	15 in	2 ½ in	5	Westward	**1MZJ1**
380 lb	26 in	Steel	25 ⅛ in	25 ¾ in	3 in	4	Whiteside	**55JV52**
440 lb	22 in to 27 in	Steel	15 in	15 in	3 in	4	Whiteside	**55JV50**
480 lb	22 in to 27 in	Steel	19 ⅛ in	13 ⅜ in	3 in	4	Whiteside	**4WM20**
480 lb	17 in to 22 in	Steel	15 in	15 in	3 in	4	Whiteside	**46KJ39**
480 lb	22 in to 27 in	Steel	17 in	17 in	3 in	4	Whiteside	**55NA33**
Fixed								
300 lb	18 ½ in	Steel	—	—	2 ½ in	4	Westward	**1MZH7**
300 lb	18 in	Steel	16 in	16 in	3 in	4	Proto	**6RKW1**
350 lb	12 in	Polypropylene	31 ¾ in	29 in	5 in	3	Omega	**48NU03**
350 lb	15 in	Steel	15 in	18 ½ in	2 ½ in	4	Whiteside	**61CU77**
380 lb	19 in	Steel	19 ⅝ in	16 ⅛ in	2 ½ in	4	Whiteside	**4WM28**
380 lb	15 in	Steel	13 ¼ in	15 ⅛ in	3 in	4	Whiteside	**55JV53**
440 lb	17 in	Steel	15 in	15 in	3 in	4	Whiteside	**55JV51**
480 lb	17 in	Steel	15 in	15 in	3 in	4	Whiteside	**4WM21**
480 lb	17 in	Steel	15 in	15 in	3 in	4	Whiteside	**46KJ38**
480 lb	17 in	Steel	15 in	15 in	3 in	4	Whiteside	**55JV54**
480 lb	17 in	Steel	17 in	17 in	3 in	4	Whiteside	**55NA32**
Knee Saver Work Seat								
Adjustable								
300 lb	14 ½ in	Steel	24 in	28 in	2 ½ in	4	Keysco Tools	**45AE93**
300 lb	14 ½ in	Steel	23 in	22 in	2 ½ in	4	Keysco Tools	**45AE94**
Mechanic Stool								
Fixed								
500 lb	30 in	Steel	20 ½ in	30 in	—	0	Whiteside	**55JV47**
Tool Box Creeper Seat								
Fixed								
450 lb	16 in	Steel	14 ⅛ in	18 ¼ in	3 in	4	Omega	**48NT99**

4WM26

458J32

1YEU2

426C23

61CU76

6RKV1

2PB36

54GF84

Creepers

Maximum Load Capacity	Height Range	Frame Material	Overall Length	Overall Width	Caster Diameter	No. of Wheels	Brand	Item No.
Creeper								
Adjustable; Padded Headrest Style								
570 lb	5 ⅝ in	Steel	40 in	17 in	3 in	6	Whiteside	**55JV48**
570 lb	3 ¾ in	Steel	40 in	17 in	2 ½ in	6	Whiteside	**4WM26**
570 lb	3 ¾ in	Steel	40 in	17 in	2 ½ in	6	Whiteside	**4WM27**
600 lb	7 ⅞ in	Steel	40 in	24 ½ in	6 in	4	Whiteside	**458J32**
Multi Adjustable Headrest Style								
250 lb	1 9⁄16 in to 7 ⅞ in	Steel	40 ⅜ in	16 ¾ in	3 in	6	Westward	**1YEU2**
Padded Headrest Style								
250 lb	4 ⅛ in	Steel	40 ⅜ in	16 ¾ in	3 in	6	Westward	**1YER5**
250 lb	3 11⁄16 in	Steel	36 ¼ in	17 11⁄16 in	2 ½ in	6	Westward	**1YER9**
280 lb	4 ½ in	Plastic	39 ¾ in	18 11⁄16 in	3 in	6	Westward	**1YER7**
300 lb	4 ¼ in	Plastic	37 in	17 in	2 in	6	Omegalift	**426C21**
380 lb	3 in	Steel	40 in	14 in	2 ½ in	4	Whiteside	**61CU76**
400 lb	3 in	Steel	40 in	18 in	3 in	6	Proto	**6RKV1**
400 lb	4 in	Steel	40 in	26 in	3 in	6	Omega	**48NT98**
440 lb	4 in	Plastic	48 in	25 in	3 in	6	Omegalift	**426C23**
480 lb	5 ½ in	Steel	40 in	20 in	4 in	4	Whiteside	**40Z945**
480 lb	5 ½ in	Steel	40 in	20 in	4 in	4	Whiteside	**40Z944**
570 lb	3 ¾ in	Steel	40 in	17 in	2 ½ in	6	Whiteside	**14N890**
570 lb	4 ¼	Steel	40 in	17 in	2 ½ in	6	Whiteside	**46KJ34**
570 lb	4 45⁄64 in	Steel	36 in	17 in	2 ½ in	6	Whiteside	**46KJ35**
570 lb	4 ¼ in	Steel	40 in	20 ½ in	2 ½ in	6	Whiteside	**46KJ36**
570 lb	4 45⁄64 in	Steel	40 in	17 in	2 ½ in	6	Whiteside	**46KJ37**
570 lb	4 ⅝ in	Steel	36 in	17 in	1 in	6	Whiteside	**55JV49**
570 lb	3 ⅝ in	Steel	44 in	17 in	2 ½ in	6	Whiteside	**2PB36**
570 lb	5 ½ in	Steel	40 in	18 ¾ in	2 ½ in	6	Whiteside	**46KJ33**
600 lb	8 ¾ in	Steel	40 in	26 in	6 in	4	Whiteside	**2PB37**
600 lb	3 in	Plastic	42 in	22 ½ in	3 in	6	Whiteside	**55JV46**
660 lb	4 ½ in	Steel	40 in	17 in	3 in	6	Whiteside	**458J30**
660 lb	4 ½ in	Steel	44 in	17 in	3 in	6	Whiteside	**458J31**
Under Dash Creeper								
No Headrest Style								
350 lb	20 in	Steel	39 in	11 in	—	0	Whiteside	**54GF84**

46V237

48NU01

48NT97

Convertible Creepers

Maximum Load Capacity	Height Range	Frame Material	Overall Length	Overall Width	Caster Diameter	No. of Wheels	Brand	Item No.
Convertible Creeper								
Headrest and Body Cushion Headrest Style								
450 lb	7 ½ to 18 ½ in	Steel	40 in	18 in	3 in	6	Westward	**46V237**
Padded Headrest Style								
350 lb	9 ½ in to 18 in	Steel	14 in	9 ½ in	3 in	4	Omega	**48NU01**
450 lb	5 ¼ in to 18 in	Steel	40 in	26 in	3 in	6	Omega	**48NT97**

4WM16

4WM19

Creeper Caster Replacement Wheel

For Use With	Wheel Dia.	No. of Wheels	Wheel/ Tread Material	Item No.
Creeper Casters				
4WM20, 4WM21	3 in	4	Polyurethane	**4WM22**
4WM23	3 in	4	Steel	**4WM18**
4WM24	2 in	4	Polyolefin	**4WM19**
4WM25, 4WM27	2 in	4	Polyolefin	**4WM16**
4WM26, 4WM27, 4WM28, 2PB36, 46KJ33, 46KJ34, 46KJ36	2 ½ in	6	Polyolefin	**4WM17**

4VCT8

Tire Balancer

Built to balance truck, bus, RV, and automobile wheels and tire assemblies. Heavy-duty design handles wheel ranges from 12” to 24.5”. Additional features include pneumatic wheel lift that helps reduce strains caused by lifting; semi-automatic data entry that helps eliminate errors; and self-calibration detail that helps ensure accuracy and reduce cost.

Item	Power Requirements	Max. Tire Dia.	Item No.
Tire Balancer	230V, 1-Phase, 60 Hz	30 in	**4VCT8**

Wheel Weights

FN Series

P Series

PZ Series

FN Series—Clip-on weights can be used on most pre-1990 Japanese vehicles equipped with alloy wheels.

P Series—Use on standard passenger cars with 13" to 17" steel wheels.

PZ Series—Use zinc weights on standard passenger car 13" to 17" steel wheels.

Weight	Size	Item No.	Pkg. Qty.
FN Series - Zinc			
10g	0.885 x 0.698 in	**33Y274**	25
15g	1.375 x 0.698 in	**33Y275**	25
20g	1.57 x 0.776 in	**33Y276**	25
P Series Uncoated - Lead			
0.25 oz	0.8 x 0.536 in	**33X837**	50
0.5 oz	1.3 x 0.567 in	**33X838**	50
0.75 oz	1.53 x .0.65 in	**33X839**	50
1 oz	2.2 x 0.65 in	**33X840**	50
1.25 oz	2.38 x 0.65 in	**33X841**	50
1.5 oz	2.88 x 0.65 in	**33X842**	50
1.75 oz	3.2 x 0.65 in	**33X843**	50
2 oz	3.69 x 0.65 in	**33X844**	50
2.25 oz	4.02 x 0.65 in	**33X845**	50
PZ Series Coated - Zinc			
0.5 oz	2.407 x 0.475 in	**33Y207**	25
0.75 oz	2.143 x 0.575 in	**33Y208**	25
1 oz	2.728 x 0.575 in	**33Y209**	25
1.25 oz	2.932 x 0.625 in	**33Y210**	25
1.5 oz	3.437 x 0.625 in	**33Y211**	25
1.75 oz	3.514 x 0.675 in	**33Y212**	25
PZ Series Uncoated - Zinc			
0.25 oz	1.254 x 0.475 in	**33Y193**	25
0.5 oz	2.407 x 0.475 in	**33Y194**	25
0.75 oz	2.143 x 0.575 in	**33Y195**	25
1 oz	2.728 x 0.575 in	**33Y196**	25
1.25 oz	2.932 x 0.625 in	**33Y197**	25
1.5 oz	3.437 x 0.625 in	**33Y198**	25
1.75 oz	3.514 x 0.675 in	**33Y199**	25
2 oz	3.955 x 0.675 in	**33Y201**	25
2.25 oz	4.394 x 0.675 in	**33Y202**	25
3 oz	5.186 x 0.725 in	**33Y205**	25

56FM73

Wheel Weight Racks

Description	Brand	Mfr. Model	Item No.
Free standing Rack	Hofmann Power Weight	SPDRCK-1	**56FM72**
Wall Mount Rack	Perfect Equipment	WALLRACK20	**56FM73**

4VCT9 4VCU2 2WFP1

Tire Changing Systems

Description	Application	Item No.
John Bean		
Tilt Tower Tire Changer, System II-E	For OEM to Aftermarket Applications	**4VCT9**
Tilt Tower Tire Changer, System IV-E	For OEMs or the Aftermarket	**4VCU1**
Tilt Tower Tire Changer, System V	For High Performance Wheel and Tire Assemblies	**4VCU2**
Ken-Tool		
Manual Tire Changer, Floor Mount	For Tires with Rim dia From 4 to 15 in	**2WFP1**
Manual Tire Changer, Bench Mount	For Tires with Rim dia From 4 to 12 in	**2WFN9**

Adhesive Wheel Weight

Weight	Item No.	Pkg. Qty.
Hofmann Power Weight		
H361 Series		
5 g	**55EK24**	100
10 g	**55EK25**	100
15 g	**55EK26**	100
20 g	**55EK27**	100
25 g	**55EK28**	100
30 g	**55EK29**	100
35 g	**55EK30**	50
40 g	**55EK31**	50
45 g	**55EK32**	50
50 g	**55EK33**	50
55 g	**55EK34**	50
60 g	**55EK35**	50
H360 Series		
5 g	**55EK12**	100
10 g	**55EK13**	100
15 g	**55EK14**	100
20 g	**55EK15**	100
25 g	**55EK16**	100
30 g	**55EK17**	100
35 g	**55EK18**	50
40 g	**55EK19**	50
45 g	**55EK20**	50
50 g	**55EK21**	50
55 g	**55EK22**	50
60 g	**55EK23**	50
Perfect Equipment		
Uncoated Lead Adhesive		
3 oz	**33X999**	30
3 oz	**33Y001**	60
3 oz	**33Y002**	52
3 oz	**33Y003**	48
6 oz	**33Y004**	30
Roll		
0.25 oz	**33Y006**	1
0.25 oz	**33Y011**	1
5 g	**33Y012**	1
Pre-Segmented		
0.25 oz	**33Y005**	1
0.25 oz	**36TU93**	48
0.5 oz	**33Y007**	1
3 oz	**33Y008**	1
60 g	**33Y009**	1

Dyna Beads

Tire Balancing Beads

Reusable ceramic beads eliminate the need for spin balancing or rebalancing for the life of the tire. The beads reposition themselves as the tire wears to help maintain a smooth, vibration-free ride.

Description	8 OZ Item No.	10 OZ Item No.	12 OZ Item No.	16 OZ Item No.
1 Bag	**42X242**	**42X243**	**42X244**	**42X246**
2 Bags	—	**42X238**	**42X239**	**42X237**

2WFN6

33M163

1EKX3

33K060

Ken-Tool · Slime · Tru-Flate · Xtra Seal

Tire Cements, Sealant, and Lubricant

Item	Size	Container Type	Item No.
Ken-Tool			
Bead-Eze Penetrating Tire Lubricant	1 gal	Bottle	2WFN7
Concentrated Heavy Paste Lubricant	25 lb	Pail	6ZCF8
Detecto Mist Concentrated Leak Locator	1 qt	—	2WFN6
Europaste Tire Lubricant	8 lb	Bucket	6ZCF7
Tiger Paste Lubricant	7.5 lb	Bucket	6ZCG0
Ultra Lubricant	25 lb	Pail	6ZCF9
Slime			
Rubber Cement Tube	1 oz	—	33M163
Tru-Flate			
Cam-Cure Cement	8 oz	Can	1EKX9
Concentrated Lubricant and Preservative	1 gal	Bottle	1EKX8
Concentrated Tire Mounting Lubricant	8 lb	Tub	1EKX6
Tire Bead Sealer	1 qt	Can with Brush Top	1EKX3
Universal Cement	1 qt	Can	1EKX2
Universal Cement	2 oz	Tube	1EKW5
Universal Cement	4 oz	Can	1EKW8
Universal Cement	8 oz	Can	1EKW9
Xtra Seal			
Tire Bead Sealer	32 oz	—	33K060
Tire Buffer/Cleaner	32 oz	—	33K059
Tire Repair Cement	8 oz	—	33K057
Tire Repair Cement	32 oz	—	33K058
Tire Repair Sealer	16 oz	—	33K062
Tire Talc	50 lb	—	33K073

Ken-Tool · Westward

4-Way Lug Nut Wrenches

2HLA8

Socket Size	Overall Length	Leverage Bar Hole	Brand	Item No.
For Vehicle Type: Buses, Tractors, Trucks				
1 1⁄16 in, 1 ½ in, 1 ¼ in, 13⁄16 in	27 ½ in	Yes	Ken-Tool	2WEY3
1 1⁄16 in, 1 ½ in, 1 ¼ in, 13⁄16 in	27 ½ in	No	Ken-Tool	2WEY4
1 ½ in, 1 ¼ in, 13⁄16 in, ¾ in	27 ½ in	Yes	Ken-Tool	2WEY5
1 ½ in, 30 mm, 33 mm, ⅞ in	27 ½ in	Yes	Ken-Tool	2WEY2
24 mm, 27 mm, 30 mm, 33 mm	27 ½ in	Yes	Ken-Tool	2WEY6
For Vehicle Type: Cars, RVs, SUVs, Trucks, Vans				
11⁄16 in, 13⁄16 in, ¾ in, ⅞ in	14 in	No	Westward	2HLA8
11⁄16 in, 13⁄16 in, ¾ in, ⅞ in	20 in	No	Westward	2HLA9
13⁄16 in, 17 mm, ¾ in, ⅞ in	18 in	No	Ken-Tool	46UA54
13⁄16 in, 17 mm, ¾ in, ⅞ in	20 in	No	Ken-Tool	46UA55
13⁄16 in, 15⁄16 in, ¾ in, ⅞ in	22 in	No	Ken-Tool	8UMX4
13⁄16 in, 15⁄16 in, ¾ in, ⅞ in	23 in	No	Ken-Tool	36P419
17 mm, 19 mm, 21 mm, 22 mm	14 in	No	Ken-Tool	46UA53
17 mm, 19 mm, 21 mm, 22 mm	20 in	No	Ken-Tool	46UA51
17 mm, 19 mm, 21 mm, 23 mm	20 in	No	Westward	2HLB1

Locknut Sockets

OTC

- ¾ in Drive Size

4CLL4

Socket Size	Item No.
SAE Lock Nut Sockets	
6-Point	
2 3⁄32"	4CLH6
2 ¼"	4CLK7
2 ⅜"	4CLH7
2 ½"	4CLK8
2 9⁄16"	4CLH9
2 ⅝"	4CLK9
2 ¾"	4CLL1
2 ⅞"	4CLL7
3"	4CLJ2
3 ⅛"	4CLL9
3 ¼"	4CLJ4
3 ½"	4CLJ6
3 ¾"	4CLL4
3 ⅞"	4CLJ8
4"	4CLK1
4 ⅛"	4CLK2
4 ⅜"	4CLK3
4 ⅞"	4CLK5
5 ¼"	4CLN5
8-Point	
2 ⅜"	4CLH8
2 9⁄16"	4CLJ1
2 ¾"	4CLN3
2 ⅞"	4CLL8
3"	4CLJ3
3 ⅛"	4CLN1
3 ¼"	4CLJ5
3 ⅜"	4CLL2
3 ½"	4CLJ7
3 ¾"	4CLL3
3 13⁄16"	4CLL5
3 ⅞"	4CLJ9
4 ⅛"	4CLN6
4 ⅜"	4CLK4
4 ½"	4CLN4
4 13⁄16"	4CLN7
4 ⅞"	4CLK6

Socket Size	Item No.
Metric Lock Nut Sockets	
6-Point	
70-mm	4CLP8
80-mm	4CLR1
SAE Locknut Socket Sets	
6-Point	
21-Pc. Wheel Bearing Locknut Sockets w/ Tool Board	52ND52
6-Pc. Truck Pinion Locknut Sockets Set	4CLT7

Ken-Tool

Truck Wrenches

2WEZ5

Socket Size	Overall Length	Use With Wrench Handle	Item No.
Double End Truck Wrenches			
1 ⅛ in with 13⁄16 in Square x 1 1⁄12 in	16 in	2WFA5	2WEY9
1 in with ⅝ in Square x 1 ¼ in	16 in	2WFA5	2WEZ1
1 ½ in Hex	16 in	2WFA5	36P432
⅞ in x 1 1⁄16 in	16 in	2WFA5	2WEZ2
1 1⁄16 in x 1 ⅛ in	16 in	2WFA5	2WEZ3
1 3⁄16 in x 1 1⁄16 in	16 in	2WFA5	2WEZ4
1 ¾ in Hex x 15⁄16 in Square	29 ½ in	2WEZ8	2WEZ7
1 ½ in x 13⁄16 in Square	16 in	2WFA5	2WEZ5
33 mm with 13⁄16 in Square x 1 ½ in	16 in	2WFA5	36P433
24 mm, 33 mm	16 in	2WFA5	2WFA1
27 mm x 30 mm	16 in	2WFA5	2WFA2
21 mm Square x 41 mm	16 in	2WFA5	2WFA3
33 mm with 21 mm Square x 41 mm	16 in	2WFA5	36P434
30 mm x 33 mm	16 in	2WFA5	2WFA4
Single End Truck Wrenches			
1 ½ in Hex x 1 15⁄64 in depth	44 in	—	36P435
Power Wrench Sets			
¾ in, ⅞ in, 15⁄16 in, 1 1⁄16 in, 1 ⅛ in, 1 3⁄16 in, 33 mm	37 ¼ in	—	2WFA7
Accessories			
Wrench Support Stand			2WFA6
Truck Wrench Handle 22 in			2WFA5
Truck Wrench Handle 30 in			2WEZ8

4CLN9

20KR88

OTC · Ken-Tool

Budd Wheel Socket

- 1 in Drive Size
- 6-Point

Socket Size	Brand	Item No.
Budd Wheel Socket		
1 ½"	OTC	4CLP4
33-mm	OTC	4CLP3
35-mm	OTC	4CLN9
38-mm	OTC	4CLP1
41-mm	OTC	4CLP2
Budd Wheel Socket Set		
4 Pc. Inner Budd & Wheel Stud Remover Set	Ken-Tool	20KR88
5-Pc. Budd Wheel Socket Set	OTC	4CLN8

6ZAY9

32EY97

Ken-Tool · Steelman

Wheel-Lock Removal Kit

Description	Brand	Item No.
13-Piece Wheel Cover & Wheel-Lock Removal Kit	Ken-Tool	6ZAY9
16-Piece Locking Lug Nut Master Key Set	Steelman	32EY97

20KR85

20KR86

Ken-Tool

Specialty Automotive Socket Sets

- ½ in Drive Size

Sizes	Item No.
4 Pc. Lug Nut Remover Socket Set	
¾ in, 13⁄16 in, 1 in, 1 ⅛ in	20KR85
7 Pc. Thin-Wall Impact Socket Set	
13⁄16 in, ⅞ in, 1 in, 1 1⁄16 in, 17mm, 19mm, 21mm	20KR86

Tread Depth Gauge with Pocket Clip 2HKY4

Digital Tread Depth Gauge 48WC16

Wheel Weight Tool 2WFL8

Ball Bearing Stitcher 1ELD1

Tire Knocker 2WFN8

TPMS Valve Core Torque Tool 2HLE2

Valve Stem Tool 2HLE6

Valve Stem and Core Tool 2HLE5

Mount and Demount Spoon 2WFJ1

Tire Buffing Cone 1ELD4

Bead Breaking Wedge 2WFE7

HALTEC CORPORATION · STEELMAN · WESTWARD · TRU-FLATE · slime · Ken-Tool · AME INTL.

Tire Service and Repair Tools

Description	Brand	Item No.
Tire Tread Depth Gauge		
0-32 32NDS with Pocket Clip	Haltec	**33W514**
0-32 32NDS with Pocket Clip, Pkg. of 20	Haltec	**33W505**
Tire Tread Depth Gauge	Steelman	**8TKD1**
Tire Tread Depth Gauge,Pocket Clip	Westward	**2HKY4**
Tire Tread Depth Gauge,Pocket Clip	Tru-Flate	**1MZF7**
Tread Depth Gauge,Aluminum,7 in. L	Haltec	**48WC24**
Tread Depth Gauge,Plastic,3 in.	Haltec	**48WC16**
Tire Repair Tools		
4 Way Valve Repair Tool	Tru-Flate	**1MZF9**
4-way Valve Tool,w/ Valve Cores	Slime	**33M173**
Bead Lubricant Swab, 12"L	Ken-Tool	**2WFN2**
Cotton Applicator Swab	Tru-Flate	**1ELD3**
Double Use Tool for Deflating and Core Removal	Tru-Flate	**1MZG2**
Earthmover O-Ring,25 in. L,17/64 in. D	Haltec	**48WC46**
Euro Style Lube Brush, 11"L	Ken-Tool	**36P425**
Professional Wheel Weight Tool	Ken-Tool	**2WFL8**
Shur-Lock Valve Core Tool	Haltec	**32HE86**
Standard Wheel Weight Tool	Ken-Tool	**2WFL9**
Stitcher with Wood Handle, 1½" dia. x 1⁄16" W	Tru-Flate	**1ELD1**
Super Duty Tubeless Truck Tire Iron, 37"L	Ken-Tool	**20KT04**
Tire Knocker,18 In L,Hickory	Ken-Tool	**2WFN8**
TPMS Valve Core Torque Tool	Westward	**2HLE2**
Tubeless Tire Inserting Tool, 13 ¼ In	Haltec	**33W513**
Valve Cap Core Remover,Blue,Fiberglass	Ken-Tool	**20KR84**
Valve Core Extractor, 2 ½ In, Metal	Haltec	**33W512**
Valve Core Extractor, 4 ⅜ In	Haltec	**33W511**
Valve Core Extractor All Metal	Tru-Flate	**1MZG6**
Valve Core Extractor Plastic Handle	Tru-Flate	**1MZG3**
Valve Core Torque Tool,4-13/16 in. L	Westward	**45JW45**
Valve Installer Tool	Westward	**2HLE6**
Valve Stem Repair Tool,0.95 oz.,1/2 in D	Westward	**2HLE5**
Tire Mounting and Demounting Tools		
Blue Cobra® Truck Tire Demount Tool, 54"L	Ken-Tool	**6ZCF1**
Curved Tire Mount/Demount Spoons, 30"L	Ken-Tool	**2WFJ1**
Heavy-Duty Tubeless Truck Tire Iron 41"L	Ken-Tool	**2WFF8**
Manual Bead Breaker,11 In.	Ame	**33W454**
Mount/Demount Tire Tool,16 ½ In.	Ken-Tool	**36P413**
Mount/Demount Tool,37" L,3/4" Stock	Ken-Tool	**2WFF7**
Mount and Demount Tool	Ken-Tool	**2WFG1**
Mt and Demount Tool,52 In,1 In Stk,Stl	Ken-Tool	**2WFG5**
Nineteen-Five™ Tire Mounting & Demounting Tool Set for 19.5" Tires	Ken-Tool	**6ZCF0**
Slide Hammer Bead Breaker,48 In	Haltec	**33W455**
Straight Tire Mount/Demount Spoons, 30"L	Ken-Tool	**2WFH9**
Tire Hammer,18 In.,Fiberglass Handle	Ken-Tool	**36P418**
Truck Tire Service Kit For 22½" and 24½" Tires	Ken-Tool	**36P436**
Lock Ring Remover		
Lock Ring Remover, 24"L	Ken-Tool	**2WFD3**
Lock Ring Remover, 30"L	Ken-Tool	**2WFD4**
Impact Bead Breaker		
Imp Bead Brkr,46 In,72In Extended Lg,Stl	Ken-Tool	**2WFE2**
Buffing Cones		
Heavy Duty 2½" dia., ⅜" Arbor Hole	Tru-Flate	**1ELD4**
Standard Duty, 2" dia., ⅜" Arbor Hole	Tru-Flate	**1ELD5**
Bead Seater		
Mega Airblast™ Bead Seater, Aluminum Tank	Ken-Tool	**55JE70**
Mega Airblast™ Bead Seater, Steel Tank	Ken-Tool	**36P426**
Bead Holder		
C-Lok™ Bead Holder	Ken-Tool	**36P429**
Bead Breaking Wedge		
Breaking Wedge with Fiberglass Handle, 32"L	Ken-Tool	**2WFE7**

33W576

33W583

33W498

33W499

1MYT8

1MYP6

33W496

33W574

TRU-FLATE · HALTEC CORPORATION · slime

Tire Valves and Accessories

Item	L	Material	Brand	Item No.	Pkg. Qty.
Tire Valve Caps and Extensions					
Dome Shaped Valve Cap	1 ¼ in	Plastic	Tru-Flate	**1MZD5**	100
Double Seal Valve Cap	—	Metal	Haltec	**33W576**	50
Truck Valve Extension	3 1⁄16 in	Metal	Haltec	**33W583**	10
Truck Valve Extension	6 1⁄16 in	Metal	Haltec	**33W585**	10
Truck Valve Extension	7 in	Metal	Haltec	**33W581**	10
Valve Cap	—	Plastic	Haltec	**33W498**	100
Valve Cap	—	Metal	Haltec	**33W499**	100
Tire Valve Stems and Cores					
Clamp-In Valve	1 ¼ in	Nickel Plated Metal	Tru-Flate	**1MYT8**	1
Female Large Bore Valve Adapter	1 ⅛ in	Brass	Tru-Flate	**1MYZ8**	5
Large Bore Valve Core	—	Metal	Haltec	**33W495**	1
Short Valve Cores	—		Slime	**33M186**	1
Snap-In Valve	1 ¼ in	Rubber	Tru-Flate	**1MYP2**	50
Snap-In Valve	1 ½ in	Rubber	Tru-Flate	**1MYP6**	50
Snap-In Valve	⅞ in	Rubber	Tru-Flate	**1MYN6**	2
Standard Bore Valve Core	—	Metal	Haltec	**33W496**	100
Standard Valve Core	1 ⅛ in	Brass	Tru-Flate	**1MZF1**	100
Tire Valve	⅞ in	Rubbermetal	Haltec	**33W522**	500
Tire Valve	⅞ in	Rubbermetal	Haltec	**33W521**	50
Tire Valve	1 in	Metal	Haltec	**33W538**	5
Tire Valve	2 in	Brass	Haltec	**446V01**	1
Tire Valve	3 ¾ in	Brass	Haltec	**48WC17**	10
Tire Valve Stems-TR 413	1 ¼ in	Rubber	Slime	**33M168**	1
Truck Valve	2 ⅕ in	Metal	Haltec	**33W450**	1
Truck Valve	—	Metal	Haltec	**33W451**	1
Valve Bore Adapter	—	Metal	Haltec	**33W574**	5

5DYU8

1ELC8

Markal · TRU-FLATE

Tire Marking Crayons

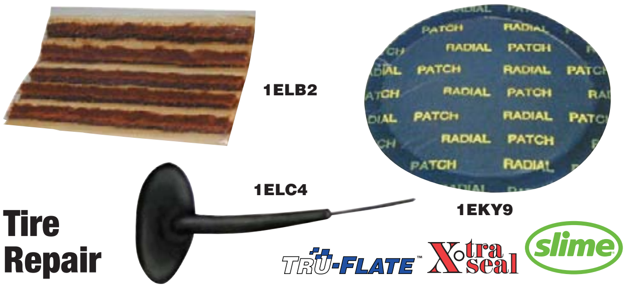
Temporary solid paint crayons mark on wet and cold rubber surfaces.

Brand	WHITE Item No.	YELLOW Item No.
Markal	**5DYU8**	**5DYU9**
Tru-Flate	**1ELC7**	**1ELC8**

33M153 33M150 33M154 1NUV7

Tire Inflator and Inflator Repair Kits

Item	Features	Item No.
Slime		
12-Volt Tire Inflator	0 to 100 psi, Gauge and Light. Raft pump, Properly inflated tires save you money. Maintaining proper tire pressure reduces fuel consumption and maximizes tire life. Best of all the process is simple. Just check tire pressure monthly and air up low tires. Inflates mid-size car tire in 8 minutes.12 volt	33M153
12-Volt Tire Inflator	Inflates a Car Tire in 8 Minutes	33M152
12-Volt Tire Inflator	Dual Purpose Checks Pressure and Inflates In 10 Minutes.	443P45
Hand Floor Bicycle Pump	Ridged Foot Petal For Improved Grip. Metal Barrel. Flexible Air Hose.	33M150
Heavy-Duty 12-Volt Tire Inflator	inflates a Standard Car Tire in 3 Minutes,	33M154
Single Cylinder Foot Pump	Improves Vehicle Handling, Maintaining Proper Tire Pressure Maximizes Tread Life	33M151
Smart Spair Flat Tire Repair Kit	—	1MRF7
Maxair		
Air Pump	—	1NUV7
Airman		
Tire Repair Air Compressor Kit	Premium All-In-One Solution for Passenger Vehicles	41P298



1ELB2 1EKY9 1ELC4

Tire Repair

Item	Size	L (in.)	Brand	Item No.	Pkg. Qty.
Automotive and Heavy-Duty Trucks Tire					
Steel Belted Radial Truck Insert	7 in	7	Tru-Flate	1ELC2	30
Automotive and Light-Duty Trucks Tire					
Medium Plug-N-Patch	¼ in Stem	—	Tru-Flate	1ELC5	20
Medium Plug-N-Patch	¼ in Stem	—	Xtra Seal	33K055	24
Medium Round Tube/Bias Tire Patch	2.25 in	—	Tru-Flate	1EKZ4	30
Radial Inserts/String Repairs	4 in	—	Tru-Flate	1ELA2	10
Radial Inserts/String Repairs	4 in	4	Tru-Flate	1ELB2	20
Radial Inserts/String Repairs	4 in	4	Tru-Flate	1ELC1	60
Radial Inserts/String Repairs	4 in	4¼	Xtra Seal	33K044	60
Radial Inserts/String Repairs	7 in	7	Tru-Flate	1ELB3	50
Small Plug-N-Patch	⅛ in Stem	—	Tru-Flate	1ELC4	48
Small Round Radial Tire Patch	2.25 in	—	Tru-Flate	1EKY9	30

52YX26 1MRE5

Tire Repair Sealants

Provide temporary repair that allows safe travel to tire repair facility.

Item	Container Type	Size	Item No.
Fix-A-Flat			
Temporary Flat Tire Repair			
Tire Inflator Sealant	Aerosol Can	12 oz	52YX25
	Aerosol Can	16 oz	52YX26
	Aerosol Can	20 oz	52YX27
	Aerosol Can	24 oz	52YX28
Slime			
Tubeless Tires, Bike, ATV, Auto, Trailer, Motorcycle and Wheelbarrow			
Tire Sealant	Squeeze Bottle	16 oz	1MRD9
	Squeeze Bottle	24 oz	1MRE2
	Squeeze Bottle	32 oz	1MRE3
	Jug with Pump	1 gal	1MRE5
	Bucket	5 gal	1MRE6
Tube Tires, Bike, Dirtbike and Wheelbarrow			
Tire Sealant	Squeeze Bottle	8 oz	1MRD6
	Squeeze Bottle	16 oz	1MRD7
	Jug with Pump	1 gal	1MRE4

3CZR1 1ELA3 33K047 1UEX9 33M139

Tire Repair Kits

Item	Includes	Brand	Item No.
ATVs, Bicycles and Wheelbarrows, Mowers			
Tire Tube Patch Kit	0.41 oz Glue Tube	Slime	33M136
Automotive and Light-Duty Trucks Tire			
Large Tire Repair Kit	9 String Repairs, Pencil Gauge, T-Handle Open-Eye Tool and Probe, Tool Case	Slime	3CZR1
Rubber Patch Kit	(2) Glue Tubes, (24) Patches, Scuffer	Slime	33M138
Super-Grip Tire Repair Kit	1 Needle, 1 Probe, 1.30 oz cement, 5 Radial Inserts	Tru-Flate	1ELA3
Truck Tire Repair Kit	25 Heavy Duty Inserts, Lubricant, Retractable Knife, T-Handle Open-Eye Tool and Probe, Tool Case	Xtra Seal	33K047
Truck Tire Repair Kit	(25) Passenger Heavy Duty Strings, Passenger Needle, T-Handle With Needle, T-Handle With Spiral Cement Tool	Xtra Seal	33K046
Emergency Repairs On The Largest Truck Tires			
Heavy-Duty Truck Repair Kit	15 Heavy Duty Inserts, 2 oz Universal Cement, T-Handle Open-Eye Tool and Probe, Tool Pouch	Tru-Flate	1UEX9
Off-Road Tires			
Off-Road Tire Repair Kit	2 Metal Scuffers and 56 Various Size Patches, 2 Tubes of Glue	Slime	33M139
Off-Road Tire Repair Kit	(1) 0.41 oz Tube Rubber Cement, (1) 10-50 psi Anodized Pencil Gauge, (1) 4 Way Tool, (1) Metal Scuffer, (1) Screwdriver Plugger Tool (5) 1⅜ in Round Patches, (1) Screwdriver Reamer tool, (3) Plug Repair Strings, (3) Repair Plugs, (4) Anodized Valve Caps, (4) Chrome Hex Caps, (4) Valve Cores	Slime	1MRF5

Tire Gauges

Item	Pressure Range	Item No.
Haltec		
Digital Tire Pressure Gauge	0 to 160 psi	48WC39
Slime		
Dial Tire Pressure Gauge	5 to 60 psi	54ZW40
Digital Tire Gauge	5 to 150 psi	33M133
Dually RV Dial Tire Gauge	10 to 160 psi	33M127
Westward		
Dial Tire Pressure Gauge	0 to 60 psi	2HKY6
Dual Foot Tire Gauge	0 to 160 psi	2HKX2
Winters		
Tire Pressure Gauge	0 to 100 psi	38VL21

48WC39 33M133 33M127 2HKY6 38VL21

Tire Inflator Gauges

Features	Range	Hose Size	Mfr. Model	Item No.
Haltec				
Tire Inflator Gauge				
2 PSI Increments, Gauge Bar in Site Glass, Locking Chuck	10 to 120 psi	72 in	I-440-6	**48WC27**
2 PSI Increments, In-Line Gauge, Locking Chuck	10 to 120 psi	36 in	I-405-3M	**48WC44**
2 PSI Increments, In-Line Gauge, Locking Chuck	10 to 120 psi	72 in	I-405-6M	**48WC45**
Milton				
Dual Head Straight Chuck Inflator Gauge				
12 in Swivel Chuck, 2 PSI Increments, Gauge Bar in Site Glass, Straight-on & 30° Reverse Chuck	10 to 160 psi	24 in	517	**51EP16**
2 PSI Increments, Gauge Bar in Site Glass, Straight-on & 30° Reverse Chuck	10 to 160 psi	15 in	S-516	**51EP60**
Dual Head Tire Inflator Gauge				
2 PSI Increments, Angled & 30° Reverse Chuck, Gauge Bar in Site Glass	10 to 160 psi	15 in	S-506	**51EP59**
2 PSI Increments, Angled and 30° Reverse Chuck, In-Line Gauge	10 to 120 psi	12 in	S-522	**51EP63**
2 PSI Increments, Gauge Bar in Site Glass, Straight-on & 30° Reverse Chuck	10 to 160 psi	60 in	501	**51EP10**
Heavy-Duty Truck Tire Inflator Gauge				
2 PSI Increments, Gauge Bar in Site Glass, Straight-on & 30° Reverse Chuck	10 to 160 psi	60 in	553	**51EP24**
Large Bore Tire Inflator Gauge				
2 PSI Increments, Gauge Bar in Site Glass, Kwik Connect Air Chuck	10 to 160 psi	72 in	556	**51EP25**
Omega				
Digital Tire Inflator				
Easy Lock, LCD Digital Read-Out	2 to 160 psi	6 in	83016	**48NU08**
Easy Lock, LCD Digital Read-Out	2 to 160 psi	12 in	83014	**48NU07**
Speedaire				
Tire Inflator				
2 PSI Increments, Angled & 30° Reverse Chuck, Gauge Bar in Site Glass	0 to 100 psi	18 in	22YL03	**22YL03**
2 PSI Increments, In-Line Gauge, Straight Tapered Chuck	0 to 100 psi	12 in	22YL02	**22YL02**
Westward				
Dual Head Tire Inflator Gauge				
2 PSI Increments, Angled & 30 Degree Reverse Chuck, Gauge Bar in Site Glass	10 to 120 psi	12 in	2FDL1	**2FDL1**
2 PSI Increments, Angled and 30° Reverse Chuck, In-Line Gauge	10 to 90 psi	12 in	2HKX1	**2HKX1**
2 PSI Increments, Dial Gauge, Straight-on & 30° Reverse Chuck	0 to 220 psi	12 in	2HKX4	**2HKX4**
2 PSI Increments, Gauge Bar in Site Glass, Straight-on & 30° Reverse Chuck	10 to 120 psi	144 in	2HKX3	**2HKX3**
Tire Inflator Gauge				
2 PSI Increments, In-Line Gauge, Straight Tapered Chuck	10 to 90 psi	12 in	2HKW9	**2HKW9**

Pencil and Straight On Tire Gauges

Features	Pressure Range	Mfr. Model	Item No.
Haltec			
Dual Foot High Pressure Tire Gauge			
2 psi Increments, Extended Head, Straight-On and 30° Reverse Chuck	20 to 120 psi	GA-160	**32HF01**
Dual Foot Tire Pressure Gauge			
2 psi Increments, Angled Chuck	10 to 150 psi	GA-135-1	**48WC36**
2 psi Increments, Extended Head, Straight-On and 30° Reverse Chuck	10 to 150 psi	GA-165	**32HE99**
2 psi Increments, Grip Handle, Straight-On and 30° Reverse Chuck	10 to 150 psi	GA-155S W/TGG-1	**32HE98**
2 psi Increments, Recalibratable, Straight-On and 30° Reverse Chuck	10 to 150 psi	GA-155S-RCL	**33W452**
2 psi Increments, Straight-On and 30° Reverse Chuck	10 to 150 psi	GA-155-1	**48WC37**
Large Bore Tire Pressure Gauge			
2 psi Increments, Recalibratable, Swivels 360° Chuck	10 to 150 psi	GA-255S-RCL	**33W453**
Pencil Tire Pressure Gauge			
1 psi Increments, 4-Sided Nylon Indicating Bar	10 to 50 psi	GA-105	**32HE96**
2 psi Increments, 4-Sided Indicating Bar	20 to 120 psi	GA-115-1	**48WC35**

Features	Pressure Range	Mfr. Model	Item No.
Slime			
Dual Foot Tire Pressure Gauge			
2 psi Increments, 4-Sided Indicating Bar	10 to 120 psi	2016-A	**33M130**
2 psi Increments, Angled Chuck	10 to 150 psi	2021-A	**33M131**
TruckSpec			
Dual Foot Tire Pressure Gauge			
2 psi Increments, Extended Head, Hang Ring, Straight-On and 30° Reverse Chuck	10 to 150 psi	JL-5018	**52YG17**
Victor			
Dual Foot Tire Pressure Gauge			
2 psi Increments, Straight-On and 30° Reverse Chuck	10 to 120 psi	00896-8	**1EZF3**
Westward			
2 psi Increments, Straight-on and 30° Reverse Chuck	10 to 150 psi	2HKW5	**2HKW5**
2 psi Increments, Straight-on and 30° Reverse Chuck	20 to 120 psi	2HKW6	**2HKW6**
Pencil Tire Pressure Gauge			
1 psi Increments, 4-Sided Indicating Bar	10 to 50 psi	2HKW7	**2HKW7**
2 psi Increments, 4-Sided Indicating Bar	20 to 120 psi	2HKW8	**2HKW8**

Air Chucks

Item	Features	Range	Mfr. Model	Item No.
Amflo				
Ball Foot Air Chuck	Snaps on to Standard Tire Valve and Trays Put Until Disconnected, Straight-On Air Line Chuck	300 psi	17-351	**41AA48**
Haltec				
Air Chuck	Easy Lock	0 to 300 psi	H-5265	**48WC43**
Air Chuck	Easy Lock	0 to 250 psi	H-4660A	**48WC42**
Air Chuck	Good for Inner and Outer Dual Tire	0 to 200 psi	CH-370-LO	**48WC32**
Air Chuck	Easy Attachment and Removal from the Valve	0 to 200 psi	377	**48WC13**
Air Chuck	Easy Lock, Max Pressure 200 psi	—	CH-347-OP	**32HE92**
Air Chuck	Clip-On European Style	200 psi	CH-360	**32HE85**
Air Chuck	European Style Clip-On Air Chuck	5 to 200 psi	CH-360-OP	**29RH98**
Tire Chuck	Reverse Angle	—	CH-350-LO	**33W443**
Speedaire				
Ball Foot Air Chuck	¼ in Female NPT	—	AL3000-BG-GRA	**1KUH3**
Westward				
Angled Air Chuck	¼ in Female NPT, Angled Chuck for Inflating Inner Wheels	0 to 150 psi	2HKY2	**2HKY2**
Ball Foot Air Chuck	¼ in Female NPT	0 to 150 psi	2HKY1	**2HKY1**
Clip-on Ball Foot Air Chuck	Clip Locks Chuck on to Valve Stem for Easy Filling	0 to 150 psi	2HKY3	**2HKY3**

41P252

41P227

41P205

41P217

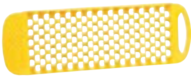
41P194

HI-RUN TIRES MARASTAR

Tires and Inner Tubes

Tire Size	Tread Pattern	Ply	Weight Cap. (lb.)	Brand	Item No.
Trailer Tire					
Tire and Rim					
4.80-8 & 8X3.75 4-4	SU01	4 Ply	590 lb	Hi-Run	**41P242**
4.80-8 & 8X3.75 5-4.5	SU01	4 Ply	590 lb	Hi-Run	**41P241**
5.70-8 & 8X3.75 4-4	H180	4 Ply	715 lb	Hi-Run	**41P243**
4.80-12 &12X4 4-4	SU02	4 Ply	780 lb	Hi-Run	**41P245**
4.80-12 12X4 5-4.5	SU02	4 Ply	780 lb	Hi-Run	**41P247**
ST175/80D13&13X4.5 5-4.5	H180	6 Ply	1,360 lb	Hi-Run	**41P251**
ST205/75D14&14X6 5-4.5	H180	6 Ply	1,760 lb	Hi-Run	**41P252**
ST205/75D15&15X5 5-4.5	H186	6 Ply	1,820 lb	Hi-Run	**41P253**
Tires Only					
4.80-8	SU01	6 Ply	745 lb	Hi-Run	**41P227**
4.80-12	SU02	6 Ply	990 lb	Hi-Run	**41P228**
5.70-8	SU02	4 Ply	715 lb	Hi-Run	**41P223**
18.5 x 8.5-8	SU03	4 Ply	940 lb	Hi-Run	**41P224**
20.5 x 8.0-10	SU03	6 Ply	1,105 lb	Hi-Run	**41P225**
20.5 x 8.00-10	SU03	10 Ply	1,535 lb	Hi-Run	**41P226**
ST205/75R15	—	8 Ply	1,820 lb	Hi-Run	**41P236**
Wheelbarrow Tire					
Tire and Rim					
4.00-6	Turf	4 Ply	300 lb	Marastar	**53DP36**
4.00-6	Rib	4 Ply	300	Hi-Run	**41P209**
4.10/3.50-4	Stud	4 Ply	300	Hi-Run	**41P210**
4.10/3.50-4	Sawtooth	4 Ply	300	Hi-Run	**41P211**
4.80/4.00-8	Rib	2 Ply	400	Hi-Run	**41P203**
4.80/4.00-8	Rib	4 Ply	300	Hi-Run	**41P205**
4.80/4.00-8	Stud	4 Ply	300	Hi-Run	**41P207**
Tire Only					
4.00-6	Rib	4 Ply	300	Hi-Run	**41P208**
4.10/3.50-5	Sawtooth	4 Ply	380 lb	Hi-Run	**41P192**
4.10/3.50-4	Sawtooth	4 Ply	400 lb	Hi-Run	**41P191**
4.10/3.50-6	Sawtooth	4 Ply	400 lb	Hi-Run	**41P193**
4.80/4.00-8	Stud	4 Ply	400	Hi-Run	**41P206**
4.80/4.00-8	Rib	4 Ply	300	Hi-Run	**41P204**
Golf Cart Tire					
Tire and Rim					
18 x 8.5-8	Golf Turf 5 Lugs	4 Ply	815 lb	Marastar	**53DP41**
18 x 8.5-8	Golf Turf 4 Lugs	4 Ply	815 lb	Hi-Run	**54YL18**
18 x 8.5-8	Golf Turf 4 Lugs	4 Ply	815 lb	Marastar	**53DP40**
Tire Only					
205/50-10	Golf Turf	4 Ply	675 lb	Marastar	**53DP45**
18 x 8.5-8	Golf Turf	4 Ply	815 lb	Hi-Run	**41P194**
Power Equipment					
Tire Only					
4.10/3.50-4	Stud	2 Ply	230 lb	Hi-Run	**41P180**
4.10/3.50-6	Stud	2 Ply	290 lb	Hi-Run	**41P182**
Riding Mower					
Tire and Rim					
11 x 4.0-5	Smooth	2 Ply	325 lb	Marastar	**53DP35**
15 x 6.00-6	SU12	2 Ply	365 lb	Hi-Run	**54YL20**
Tire Only					
13 x 5.00-6	Turf	2 Ply	295 lb	Hi-Run	**41P173**
13 x 5.00-6	SU12	4 Ply	440 lb	Hi-Run	**54YL27**
13 x 6.50-6	SU05	4 Ply	460 lb	Hi-Run	**54YL30**
15 x 6.0-6	Turf	2 Ply	365 lb	Hi-Run	**41P171**
16 x 6.5-8	Turf	2 Ply	415 lb	Hi-Run	**41P172**
18 x 8.5-8	Turf	2 Ply	515 lb	Hi-Run	**41P174**
18 x 8.50-8	SU05	4 Ply	815 lb	Hi-Run	**54YL46**
18 x 9.5-8	Turf	2 Ply	695 lb	Hi-Run	**41P175**
20 x 8.00-8	Turf	2 Ply	600 lb	Hi-Run	**41P176**
20 x 8.00-10	SU05	4 Ply	895 lb	Hi-Run	**54YL53**
20 x 10.00-10	SU05	4 Ply	1,160 lb	Hi-Run	**54YL50**
23 x 10.5-12	Turf	4 Ply	1,340 lb	Hi-Run	**41P179**
ATV Tire					
Tire Only					
8 x 9.50-8	Knobby	2 Ply	225 lb	Hi-Run	**41P214**
16 x 8-7	Knobby	2 Ply	110 lb	Hi-Run	**41P213**
25 x 10.00-12	SU73	6 Ply	420 lb	Hi-Run	**54YL16**
25 x 10-12	SU10	2 Ply	365 lb	Hi-Run	**41P217**
22 x 11-8	Knobby	2 Ply	340 lb	Hi-Run	**41P215**
25 x 12-9	Knobby	2 Ply	430 lb	Hi-Run	**41P216**
25 x 8-12	SU10	2 Ply	290 lb	Hi-Run	**41P218**
23 x 8-11	SU10	4 Ply	255 lb	Hi-Run	**41P219**
45/70-6	Knobby	2 Ply	165 lb	Hi-Run	**41P212**

Tire Size	For Use With	Valve	Item No.
Lawn/Garden Inner Tube			
400/410/350-6	Tire Nos. 41P182 and 41P193	TR13	**41P282**
410/350-4	Tire Nos. 41P180 and 41P191	TR87	**41P279**
480/400-8	Tire Nos. 41P204 and 41P206	TR87	**41P288**
480/400-8	Tire Nos. 41P204 and 41P206	TR13	**41P289**
15/600-6	Tire No. 41P171	TR13	**41P284**
18 x 850/950-8	Tire Nos. 41P174 and 41P175	TR6	**41P286**


16A731
Traction Tire Mats

Passenger, Pickup/SUV
39R857

Singles, V-Bar
3VTL4

Skidsteer Chain
39R866

Chain Tightener
3VTR2

SUBZERO SNOW AND ICE TOOLS

Tire Snow Chains, Tighteners, and Traction Mats

Fits	Brand	Item No.	Pkg. Qty.
Traction Tire Mats			
2 Mats			
25 in L x 8 in W x 2 in H	Subzero	**16A731**	2
Tire Chains			
Dual Triples, V-bar			
215/75-17.5 , 225/70-19.5,235/75-16,235/75-17,245/75-16,LT245/75-16	Peerless	**3VTP4**	2
10.00-20, 10.00/90-20, 11-22.5, 13/80-20, 285/70-24.5	Peerless	**3VTP5**	2
Passenger			
205/50-17, 205/55-16, 205/60-15, 205/60-16, 215/45-17, 215/45-18, 215/50-17, 215/55-16	Peerless	**39R835**	1
225/65-17, 235/50-18, 235/55-17, 235/55-18, 235/60-17, 245/45-19, 255/40-19, 285/35-19	Peerless	**39R838**	1
Passenger, Pickup/SUV			
245/60-20, 245/75-16, LT245/75-16, LT245/75-17, 265/60-18, 265/65-17, 265/70-16, 275/45-20	Peerless	**39R856**	1
225/60-18, 235/50-19, 235/55-19, 235/60-18, 235/65-17, 235/70-16, 245/45-20, 255/45-20	Peerless	**39R854**	1
225/65-17, 235/50-18, 235/55-17, 235/55-18, 235/60-17, 245/45-19, 255/40-19	Peerless	**39R853**	1
LT235/80-17, 255/55-20, 255/70-18, 265/50-20, 265/65-18, 265/70-17, LT265/70-17, 265/75-16	Peerless	**39R857**	1
235/65-18, 245/50-20, 245/55-19, 245/60-18, 245/65-17, 245/70-17, LT245/70-17, 275/40-20	Peerless	**39R855**	1
Pickup/SUV			
245/60-20, 245/75-16, LT245/75-16, LT245/75-17, 265/60-18, 265/65-17, 265/70-16, 275/45-20	Peerless	**39R841**	1
225/60-18, 235/55-19, 235/60-18, 235/65-17, 235/70-16, 235/75-15, 245/45-20	Peerless	**39R839**	1
LT235/80-17, 255/55-20, 255/70-18, 265/50-20, 265/65-18, 265/70-17, LT265/70-17, 265/75-16	Peerless	**39R842**	1
LT255/75-17, 265/70-18, LT265/70-18, 275/55-20, 275/65-18, LT275/65-18, 285/45-22	Peerless	**39R843**	1
8.25-15TR, 245/70-19.5, 245/75-19.5, 255/70-19.5, 275/70-18, LT275/70-18, LT285/70-17, 305/70-16	Peerless	**39R859**	1
Single, Wide Base, V-bar			
255/70-17; LT255/75-17; LT265/70-18; 265/75-16; LT265/75-16; LT275/65-18	Peerless	**3VTL8**	2
275/55-20; 275/60-20; LT275/70-18; LT285/70-17; 295/70-17; 305/70-16; LT275/65-18	Peerless	**3VTP3**	2
Singles, V-bar			
8-17.5; 205/75-17.5; LT215/85-16; LT225/75-17; 235/55-19; 245/45-20	Peerless	**3VTL4**	2
8.00-16.5LT; 8.50-16.5LT; 27x8.50-14LT; 205/75-16; 205/80-16; 225/70-15	Peerless	**3VTL5**	2
10.00-22; 11-24.5	Peerless	**3VTP2**	2
10.00-20; 10.00/90-20; 11-22.5; 13/80-20; 285/70-24.5	Peerless	**3VTN4**	2
11.00-20; 12-22.5; 285/80-22.5; 285/80-24.5; 295/80-22.5; 305/80-22.5	Peerless	**3VTN5**	2
12.00-20; 12.75-22.5; 14/80-20; 305/75-24.5; 305/85-22.5; 315/80-22.5	Peerless	**3VTN6**	2
LT235/80-17; LT245/75-17; 245/75-19.5; 255/70-18; LT265/70-17	Peerless	**3VTN9**	2
Single Truck, Bus & RV V-Bar			
215/75-17.5; 225/70-19.5; 235/75-16; 245/70-17; LT245/70-17; LT245/75-16	Peerless	**3VTL9**	2
Skidsteer/Skidloader Chain			
7.50x16, 8.00x16, 10x15, 10x16.5NHS, 29x12x16NHS, 29x13.50x15, 38x10x18, 235/70R15, 235/80R16, 235/75R16.5, 245/75R16, 245/70R17.5, 255/75R15, 255/70R16, 265/70R15, 265/75R15, 265/60R17, 275/55R17, 275/60R17	Peerless	**39R866**	1
Cross Chains			
V-bar, 4/0 x 10 Link			
Single Truck, Bus, RV	Peerless	**3ULG3**	1
V-bar, 6/0 x 9 Links			
Single Truck, Bus, RV	Peerless	**3ULG4**	1
Chain Tighteners			
Truck-Spring			
Light Truck Link	Peerless	**3VTR1**	2
Large Truck Link	Peerless	**3VTR2**	2

Wheel Locks

California Immobilizer™ PROTECTING YOUR INVESTMENT

The Protector™—Powerful theft deterrent that offers a level of security to standard car wheel boots.

TNT Trailer Lock—Thick wall, steel construction lock can be installed on either side of trailer.

39C431

39C433

Description	Use With	Item No.
The Protector Anti-Theft Wheel Lock	0 to 13 in wide, Adjustable	**39C431**
TNT Truck/Trailer Lock	Single or Dual 22½ to 24½ in Wheels	**39C433**

LASER TOOLS CHECKPOINT™ PROFESSIONAL

Loose Wheel Nut Indicators

Use these convenient indicators to improve the safety by providing a visual indication of nut movement where it is critical, such as on commercial vehicle wheels. Can also help to identify if a wheel is overheating.

Bolt Hole Spacing	Overall Length	Max. Temp.	Item No.
Orange			
33 mm	72 mm	329 °F	**38XK66**
38 mm	2.25 in	329 °F	**38XK70**

Bolt Hole Spacing	Overall Length	Max. Temp.	Item No.
Red			
33 mm	72 mm	257 °F	**38XK97**
Yellow			
19 mm	57 mm	257 °F	**38XK74**
20 mm	57 mm	257 °F	**38XK75**
21 mm	57 mm	257 °F	**38XK76**
22 mm	57 mm	257 °F	**38XK77**
24 mm	57 mm	257 °F	**38XK79**
27 mm	57 mm	257 °F	**38XK82**
28 mm	72 mm	257 °F	**38XK83**
30 mm	72 mm	257 °F	**38XK85**
32 mm	72 mm	257 °F	**38XK87**
33 mm	72 mm	257 °F	**38XK88**
38 mm	84 mm	257 °F	**38XK92**
40 mm	84 mm	257 °F	**38XK93**
41 mm	84 mm	257 °F	**38XK94**
46 mm	2.25 in	257 °F	**38XK96**

Description	Overall Height	Flag Height	Flag Width	Mfr. Model	Item No.
White Whip, Orange Flag, Threaded Hex Base					
Light Duty					
With (X)	7 ft	7 ¼ in	11 ½ in	FSRR70-HB	**5YMH7**
General Duty					
Without (X)	3 ft	11 in	12 in	FS3-0	**5UYJ9**
With (X)	3 ft	11 in	12 in	FS3X-0	**5UYK0**
Without (X)	5 ft	11 in	12 in	FS5-0	**5UYK3**
With (X)	5 ft	11 in	12 in	FS5X-0	**5UYK4**
Without (X)	8 ft	11 in	12 in	FS8-0	**5UYK7**
With (X)	8 ft	11 in	12 in	FS8X-0	**5UYK8**
With (X)	10 ft	11 in	12 in	FS10X-0	**5UYL2**
With (X)	12 ft	11 in	12 in	FS12X-0	**5UYL6**
Whip with Quick-Disconnect Base					
General Duty					
Without (X)	3 ft	11 in	12 in	FS3L-QD-0	**16D786**
With Reflective (X)	5 ft	11 in	12 in	FS5X-QD-0	**16D793**
With Reflective (X)	6 ft	11 in	12 in	FS6X-QD-0	**16D797**
Without (X)	6 ft	11 in	12 in	FS6-QD-0	**16D795**
With Reflective (X)	8 ft	11 in	12 in	FS8X-QD-0	**16D808**
With Reflective (X)	10 ft	11 in	12 in	FS10X-QD-0	**16D776**
Whip Split Pole with Quick-Disconnect Base					
General Duty					
With Reflective (X)	8 ft	11 in	12 in	FS8X-SPQD-0	**16D809**
With Reflective (X)	10 ft	11 in	12 in	FS10X-SPQD-0	**16D777**

Safety Whips

High-visibility warning whips alert other vehicles to your presence, to help prevent accidents. Whips are constructed of premium fiberglass resin and include mounting base and Day Bright™ fluorescent orange nylon mesh flag, with or without 3M® Scotchlite® Reflective X.

Note: Replacement flags are available on Grainger.com®.

5UYK3

5UYK8

5UYR2

Description	Overall Height	Flag Height	Flag Width	Mfr. Model	Item No.
Whip Bases					
Heavy-Duty Spring Mount For Whips Up to 8 ft.	—	—	—	FS7006	**5UYR2**
Female Quick-Disconnect Base Mount with Debris Cap	—	—	—	FSQDB-DUD	**16D835**
Female Quick-Disconnect Base Mount with Hot Plug and Debris Cap	—	—	—	FSQD-B	**16D834**
Quick-Disconnect Base Mount Kit	—	—	—	FSQDKIT-DUD	**16D840**
Magnetic Mount Base for Non-Lighted Whips	—	—	—	FS7009	**5UYR6**

Measuring Sticks

Lightweight fiberglass measuring stick has a folding 48" cross arm and folds down to 66". Marked to take measurements in standard units. 55MN04 measures from 6 ft. to 15 ft. tall and collapses to 51" for storage and is orange in color. Fiberglass material.

3VTG6

55MN04

Description	Item No.
B/A Products Co.	
70" to 180"	**3VTG6**
J.J. Keller	
6 ft. to 25 ft.	**55MN04**

Black Rubber Mud Flaps

- Sold as a Pair

400K19

W	L	Thickness	Item No.
12 in	18 in	¼ in	**3VUH3**
20 in	18 in	¼ in	**3VUH4**
24 in	12 in	¼ in	**3VUH7**
24 in	14 in	5⁄16 in	**3VUH8**
24 in	18 in	¼ in	**3VUH5**
24 in	20 in	¼ in	**3VUH6**
24 in	24 in	½ in	**400K18**
24 in	30 in	¼ in	**400K16**
24 in	30 in	½ in	**400K19**
24 in	36 in	¼ in	**400K17**
24 in	36 in	½ in	**400K20**

3VUN3

3VUN4

3VUN6

Truck Hood Latches

3VUN5

Type	L (in.)	Item No.
Hood Latch		
U-Shaped Ball Cup	6 in	**3VUN3**
U-Shaped Ball Cup	7 ⅞ in	**3VUN4**
Rubber Hood	4 ⅞ in	**3VUN5**
U-Shaped Ball Cup	4 ⅞ in	**3VUN6**

30PD55

3VRY7

3VTD6

30PD97

Bolt-On Truck Steps

Step Width	Step Depth	Material	Color	Item No.
Flexible Truck Steps				
12 in	4 ¾ in	Steel	Black	**30PD55**
30 in	4 ¾ in	Steel	Black	**30PD49**
Foldable Truck Steps				
4 ⅜ in	2 ⅛ in	Stainless Steel	Silver	**3VRY7**
6 ¾ in	7 ¼ in	Aluminum	Silver	**3VTD6**
4 ⅜ in	2 ⅛ in	Steel	Black	**30PD97**
4 ⅜ in	2 ⅛ in	Steel	Silver	**30PD95**
Permanent Truck Steps				
12 in	1 ⅜ in	Steel	Black	**30PD60**
Retractable Truck Steps				
14 ¼ in	2 ¼ in	Steel	Black	**19A787**
14 ¼ in	2 ¼ in	Steel	Black	**19A788**
14 ¼ in	2 ¼ in	Steel	Yellow	**30PD56**

30PD57

45TX99

33W480

Outrigger Pads

- Pads protect the crane and the surface where the crane is used
- Rope-style or built-in handles are easy to grasp for placement

Load Capacity Vertical	Pad Length	Pad Width	Pad Thickness	Material	Item No.
Buyers Products					
—	18 in	18 in	2 in	Rubber	**3MHD8**
	24 in	24 in	1 in	Rubber	**30PD57**
Safety Tech Outrigger Pad					
22.5 tons	15 in	15 in	¾ in	UHMW, HDPE	**45TX96**
27.5 tons	18 in	18 in	1 in	UHMW, HDPE	**45TX97**
30 tons	24 in	24 in	1 in	UHMW, HDPE	**45TX98**
31 tons	24 in	24 in	2 in	UHMW, HDPE	**45TX99**
Titan					
50 tons	12 in	12 in	1 in	Polymer	**33W475**
	18 in	18 in	1 in	Polymer	**33W480**
100 tons	12 in	12 in	1 ½ in	Polymer	**33W476**
	18 in	18 in	1 ½ in	Polymer	**33W481**
	18 in	18 in	2 in	Polymer	**33W479**
	24 in	24 in	2 in	Polymer	**33W478**
150 tons	36 in	36 in	2 ½ in	Polymer	**33W473**
200 tons	18 in	12 in	3 in	Polymer	**33W477**
	36 in	36 in	3 in	Polymer	**33W474**

Scan. Order. Done.
Details on page A1.

BELL · Hamsar · MobileSpec · MONOPRICE · NOCO · ROADPRO · TRUCKSPEC

12VDC Power Accessories

Item	Includes	Amps	Item No.
Bell			
5 Outlet 12V Power Station	Hook-and-Loop Mounting Tape, Screws	—	6TUJ4
Auxiliary Power Outlet	(2) Splice Connectors, 18 in Lead Wire with Female Spade Terminal, 6 in Ground Wire with Female Spade Terminal, Mounting Screw, Protective Cap, Universal Mounting Bracket	5 A	1EYV4
Power Outlet Twin Socket Splitter	5-Amp Fused Plug	5 A	1EYV1
Hamsar			
3-Outlet Multisocket	36 in lead, Screw Mount	15 A	3VTE6
Mobilespec			
Headsets,108 min. Talk Time,Wireless	USB Charge Cable	—	450X82
Monoprice			
Apple Lightning Charger	—	—	289X95
NOCO			
Lighter Plug Adapter with Extension Cord	—	—	417Y79
Power Adapter	—	15 A	417Y78
Power Outlet Twin Socket Splitter	—	15 A	417Y80
Roadpro			
Auxiliary Power Outlet	Spring Loaded Lid	—	33NU57
Heated Blanket	8 ft Power Cord	4.6 A	39CJ23
Lighter Plug Adapter with Extension Cord	Extension Cord and Lighter Plug	15 A	33NU50
Lighter Socket Adapter with Battery Clips	2-ft 14ga Wire	10 A	33NU60
Quart Slow Cooker	12V Plug with 6 ft Power Cord	8 A	33NU83
Replacement Cigarette Lighter	Plug	—	33NU59
TruckSpec			
Fused Replacement Plug	—	—	39CJ21

Cobra · MIDLAND · Uniden®

CB Radios

- Full 40 channel operation
- Frequency: 26.965 to 27.405 MHz
- Backlit LCD display

Description	Item No.
Cobra	
25 LTD Compact Professional CB Radio	33UG02
29 LTD Classic Professional CB Radio	33UG04
40 Channels with LCD Display and RF Gain Control Compact Design	33UG07
Bluetooth® Technology and iRadar® compatibility CB Radio	54XV05
Uniden	
Compact Mobile CB Radio	20V771
Compact Mobile CB Radio with PA	20V772
40 Channel Compact Mobile CB Radio	20V773

ROADPRO

Portable Vehicle Fans

Type	Includes	Amps	Item No.
Car Fan			
Heater	12V Port Plug, 6 ft Power Cord, Mounting Hardware	15 A	33NU84
Heavy Duty	10 ft Power Cord, Mounting Hardware	1.3 A	33NU72
Oscillating	12V 10 ft Power Cord, Mounting Hardware	0.6 A	33NU71
Tornado	12V 11 ft Power Cord	—	33NU79
Vehicle Direct Wired Heater/Fan			
Heat or Fan	7-ft 12-Gauge 14 ft Wire, Swivel Stand and Hook-and-Loop Material for Mounting	25 A	33NU85

Buyers · ECCO · FEDERAL SIGNAL · REAR VIEW SAFETY

Camera Systems

Includes	Camera Res.	Monitor Size	Viewing Angle	Item No.
Buyers Products				
Wireless Remote Controller	420k Pixels	7 in	120 °	30PD21
Ecco				
C2013B Camera and ECTC20-4 20m Cable, M7000B Monitor	800 x 480 Píxeles	—	120 °	49KD99
EC2014-WC Camera, EC5605-WM Monitor	800 x 480 Pixels	—	120 °	49KD66
Federal Signal				
(1) 5.6 in Monitor, (1) 65-ft Cable, (1) Camera, 16 Infrared LED for Night Vision, and Integrated Microphone	224.6K Pixels	5.6 in	45°/45°, 65°/65°	12Y126
Rear View Safety/RVS Systems				
66 ft Cable for Camera, 7 in TFT LCD Color Monitor with Universal Mount, Camera, Double RCA and Power Converter, Instructions, Power Connection Wire, Remote Control, Screw Kit	410k Pixels	7 in	130 °	6HCJ6

GARMIN

GPS Navigators

Features	Display Width (in.)	Display Height (in.)	Mfr. Model	Item No.
Handheld				
ABC Sensors, Multi-GNSS Support, Transflective Color TFT, Wikiloc Trails	1.5	2.5	GPSMAP66S	60HK18
Suction Cup				
Bluetooth® Calling and Voice Command, Foursquare® Information, Lifetime USA and Canada Maps, Spoken Turn-By-Turn Directions, TripAdvisor®, WSVGA Color TFT	6.0 in	3.5 in	DRIVESMART65	55PC80
ELD Compliance, Extra-Large Display, Hands-Free Calling, IPS Color TFT, Voice Assistant, Wireless Updates	—	—	DEZLOTR1000	60KT35
	—	—	DEZLOTR700	60KT36
	—	—	DEZLOTR800	60KT37
Foursquare® Information, Lifetime USA and Canada Maps with Traffic Service, Spoken Turn-By-Turn Directions, TripAdvisor®, WQVGA Color TFT	4.4 in	2.5 in	DRIVE52LM	55PC79
Wrist				
Built to Military Standards, Extended Battery Life, Galileo Satellite Systems to Provide Accurate Positioning, Glonass, High-Resolution 4-Color Gray LCD, Night Vision Goggle Compatible	1.4 in	0.9 in	FORETREX601	55MW85

BELL · OccuNomix · IMPACTO

Interior Accessories

Description	Color	Item No.
Bell		
LCD Clock	Black & Chrome	6TUJ2
Jumbo LCD Clock	Black/Silver	1EYT7
Mobile Mount Holder with Suction Cups and Air Vent Mounts	Black & Chrome	6TUH4
Drink Holder, Window Mount with Self-Adjusting Fingers, Fits Up to 44 oz Drinks	Black	1EYX3
Drink Holder with Nonslip Base with Self-Adjusting Fingers, Fits Up to 44 oz Drinks	Black	1EYX5
Collapsible Trash Can	Black	1EZC5
EZ Clean Litter Bag with 6 Disposable Liners	Black	1EZC6
Insurance/Registration Wallet	Black	1EZC7
OccuNomix		
Seat Belt Cover	Yellow	19MR24
Seatbelt Cover,Hi-Visibility Orange	Orange	616Z74
Impacto		
Seat Cushion	Blue	12Z329
Fur-Zoff		
Pet-Hair Remover, 5 In.	Gray	13Z999

35ZX61

18C528

21DH94

13A522

3ULJ6

2CXB5

Back-Up Alarms

Standard—Compact alarms provide a cost-effective warning solution with exceptional durability and protection against moisture, dust, and vibration.

Self-Grounding—Eliminates potential corrosion points. Epoxy sealed from moisture, dust, and vibration.

Self-Adjusting—Constantly measures ambient noise and adjusts sound level. Eliminates the need for constant manual adjustment and helps prevent intentional alarm disconnection.

Sound Level	Voltage	Housing Material	L	W	H	Brand	Mfr. Model	Item No.
Standard								
Universal Mount								
87 dB	12 to 24V DC	Glass Filled Nylon	4 ⅛ in	1 ¼ in	2 ½ in	Federal Signal	210238-W	**35ZX61**
97 dB	12 to 24V DC	Glass Filled Nylon	4 ⅛ in	1 ¼	2 ½ in	Federal Signal	210239-S	**39F744**
97 dB	12 to 24V DC	Fiberglass Reinforced Nylon	1 ½ in	4 in	2 ½ in	Ecco	520	**3WRU1**
97 dB	12 to 24V DC	Glass Filled Nylon	4 9⁄64 in	1 ¼ in	2 ½ in	Federal Signal	210239-W	**35ZX62**
97 dB	12 to 48V DC	ABS Plastic	4 ⅛ in	1 ⅝ in	2 ⅝ in	—	18C528	**18C528**
97 dB	12 to 48V DC	ABS Plastic	4 1⁄16 in	1 ⅝ in	3 in	—	2ERT2	**2ERT2**
97 dB	12V DC	Glass/Nylon	4 in	1 39⁄64 in	2 51⁄64 in	Ecco	510	**49KD24**
102 dB	12 to 24V DC	Glass Filled Nylon	4 ⅛ in	1 ¼	2 ½ in	Federal Signal	210240-S	**39F745**
102 dB	12 to 24V DC	Glass Filled Nylon	4 5⁄32 in	1 ¼ in	2 ½ in	Federal Signal	210240-W	**35ZX63**
107 dB	12 to 24V DC	Fiberglass Reinforced Nylon	1 ½ in	4 in	2 ½ in	Ecco	575	**3WRU2**
107 dB	12 to 36V DC	Steel	2 ¾ in	5 in	3 in	Ecco	630N	**3WRU3**
Center Mount								
87 dB	12 to 24V DC	Glass/Nylon	3 ½ in	1 ¼ in	2 ¾ in	Velvac	697287	**21DH93**
97 dB	12 to 24V DC	Glass/Nylon	3 ½ in	1 ¼ in	2 ¾ in	Velvac	697297	**21DH94**
107 dB	12 to 24V DC	Glass/Nylon	3 ⅞ in	1 ½ in	2 7⁄16 in	Velvac	697107	**21DH91**
112 dB	12 to 24V DC	Glass/Nylon	5 5⁄32 in	2 15⁄16 in	3 63⁄64 in	Velvac	697112	**21DH92**
Bracket Mount								
97 dB	12 to 24V DC	Plastic	2 ½ in	1 ¾ in	2 ½ in	Wolo	BA-97	**13A522**
112 dB	12 to 48V DC	Plastic	5 in	2 ¾ in	3 ½ in	Wolo	BA-550	**13A521**
Self-Grounding								
87 dB	12 to 24V DC	Epoxy	4 in	—	—	Federal Signal	210238-S	**35ZX60**
97 dB	12 to 24V DC	Plastic	4 in	1 ⅝ in	2 ⅝ in	Buyers Products	BA0972	**3ULJ6**
97 dB	12 to 24V DC	Nylon	3 15⁄16 in	1 15⁄16 in	3 5⁄16 in	Grote	73040	**2CXB3**
107 dB	12 to 24V DC	Nylon	3 15⁄16 in	1 15⁄16 in	3 5⁄16 in	Grote	73090	**2CXB5**
Self-Adjusting								
82 to 102dB	12 to 24V DC	Glass Filled Nylon	1 ⅝ in	4 in	2 ½ in	Smart	SA950	**3WRT4**
82 to 107dB	12 to 24V DC	Steel	5 in	2 ¾ in	2 ⅞ in	Smart	SA901N	**3WRT5**

3FHX7

3FHY6

3FHU7

3FHW7

3FHW8

Electric Horns

dB	Voltage	Mounting	Material	Dia. (in.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Electric Horns										
114.4 dB @ 1 meter	12-60V DC	Bracket Mount	Plastic	5 in	4 ¾ in	4 ⅞ in	4 ¾ in	Wolo	EE100	**3FHX7**
115 dB @ 1 meter	12V DC	Bracket Mount	Steel	3 ¾ in	-	2 ¼ in	-	Wolo	357-12	**3FHY6**
115 dB @ 1 meter	24V DC	Bracket Mount	Steel	3 ¾ in	-	2 ¼ in	-	Wolo	357-24	**3FHY7**
116 dB @ 1 meter	12V DC	Under Hood	Steel and Plastic	3 ½ in	3 ⅛ in	3 ¾ in	3 ½ in	Wolo	385-2T	**3FHU7**
125 dB	12V DC	—	Steel	—	—	3 in	3 ⅝ in	Grote	72100-5	**2CXB1**
135 dB	12V DC	—	Steel	—	—	—	—	Grote	72010-5	**2VPN3**
125 dB	12V DC	—	Steel	—	—	—	—	Grote	72110-5	**2VPN4**
115 dB	24/48V DC	Bolt On	Metal	5 in	7 in	5 in	2 ½ in	Wolo	372LA-24/48	**33HE41**
123.5 dB @ 1 meter	12V DC	Single Stud	ABS Plastic	—	5 ¾ in	3 ½ in	4 37⁄64 in	Wolo	719	**33HE40**
115 dB	24/48V DC	Bolt On	Metal	5 in	7 in	5 in	2 ½ in	Wolo	372LB-24/48	**33HE43**
115 dB	24/48V DC	Bolt On	Metal	5 in	7 in	5 in	2 ½ in	Wolo	372LC-24/48	**33HE44**
115 dB @ 1 meter	12V DC	Under Hood	Steel	3 ¾ in	-	2 in	-	Wolo	305-2T	**3FHU3**
116 dB @ 1 meter	12V DC	Under Hood	Steel and Plastic	—	3 ⅛ in	3 ¾ in	3 ½ in	Wolo	380-2T	**3FHU6**
115 dB @ 1 meter	12V DC	Bracket Mount	Steel	5 in	2 ½ in	4 ¾ in	6 ⅛ in	Wolo	370LA-12L2	**3FHX8**
115 dB @ 1 meter	36V DC	Bracket Mount	Steel	3 ¾ in	-	2 ¼ in	-	Wolo	357-36	**3FHY8**
115 dB @ 1 meter	36-48V DC	Bracket Mount	Steel	5 in	2 ½ in	4 ¾ in	6 ⅛ in	Wolo	370LC-36/48L2WV	**3FHY3**
Accessories										
Horn Button Switch								Wolo	HS-1	**3FHW7**
Horn Button Switch And Wire								Wolo	HS-2	**3FHW8**

Air Horns

- 12VDC

53CU85

53CU66

53CU68

3FHV1

3FHV2

3FHV5

3FHV9

Item	dB	Material	Finish	Mounting	Includes	L (in.)	Item No.
Fiamm							
Dual Trumpet Horn	120 dB @ 1 meter	Stainless Steel	Unfinished	Universal Mount	—	18 in	**53CU85**
Dual Trumpet Horn Kit	135 dB @ 1 meter	Plastic	Unfinished	Universal Mount	Compressor, Vinyl Tubing	7 ½ in	**53CU66**
Dual Trumpet Horn Kit	136 dB @ 1 meter	Aluminum	Unfinished	Universal Mount	Compressor, Vinyl Tubing	7 ½ in	**53CU67**
Dual Trumpet Horn Kit	137 dB @ 1 meter	Plastic	Chrome	Universal Mount	Compressor, Vinyl Tubing	7 ½ in	**53CU68**
Portable Horn	125 dB @ 1 meter	Aluminum	Unfinished	Universal Mount	—	3 in	**53CU64**
Wolo							
Dual Trumpet Big Rig Sound Horn	118 dB @ 1 meter	Plastic	Red Plastic / Metal	Under-Hood	Chrome-Plated Direct Drive Compressor, Relay, Hose, and Mounting Hardware	12 ¼ in	**3FHV1**
Dual Trumpet Horn	116 dB @ 1 meter	Stainless Steel	Polished Stainless Steel	Exterior Mount	Gasket and Stainless Steel Bolts	18 ½ in	**3FHW5**
Dual Trumpet Horn	118 dB @ 1 meter	Plastic	Red Plastic / Metal	Under-Hood	Chrome-Plated Direct Drive Compressor, Relay, Hose, and Mounting Hardware	8 ½ in	**3FHU9**
Dual Trumpet Horn	120 dB @ 1 meter	Plastic and Steel	Chrome Metal	Exterior Mount or Under Hood	Heavy-Duty Direct Drive Compressor, Relay, Hose, and Mounting Hardware	13 ⅝ in	**3FHV2**
Extreme Duty Dual Trumpet Horn	125 dB @ 1 Metro	Steel	Chrome Plated Trumpets and Black Base	Exterior Mount or Under Hood	Inlet Hose with Brass Fittings, Gasket and Stainless Steel Mounting Hardware	14 ½ in	**3FHV5**
High Tone Trumpet Horn	130 dB @ 1 meter	Brass	Chrome	Exterior Mount or Under Hood	Hardware, Fittings and Bracket	24 ½ in	**3FHV8**
Low Tone and High Tone Trumpet Set	116 dB @ 1 meter	Stainless Steel	Polished Stainless Steel	Exterior Mount	Gasket and Stainless Steel Bolts	18 ½ in	**3FHW4**
Marine Air Horn	127 dB @ 1 meter	Bright Chrome Plated Finish	Chrome Plated	Bracket Mount	Compressor, Hose, 30A Relay, Mounting Hardware	9 ½ in	**33HE56**
Three Trumpet Train Horn	152 dB @ 1 meter	Brass	Chrome	Exterior Mount	10-ft of ¼ in OD High-Pressure Hose, and Solenoid	16 ½ in	**3FHV9**

Snow Removal Tools

Handle Type	Handle Length	Handle Material	Handle Color	Blade Width	Brand	Item No.
Ice Scrapers						
Contour Grip	5 in	Plastic	Assorted	4 in	Subzero	**49LX33**
Ergonomic	6 in	Plastic	Black	4 in	Subzero	**49LX32**
Ergonomic	7 in	Plastic	Blue	3 ½ in	Subzero	**49LX37**
Fixed	4 in	Plastic	Assorted	3 ⅞ in	Frostbite	**60KT74**
Fixed	6 in	Plastic	Assorted	4 in	Subzero	**49LX35**
Fixed	7 in	Plastic	Assorted	4 in	Subzero	**49LX34**
Fixed	7 in	Plastic	Blue	4 ½ in	Subzero	**49LX36**
Non-Slip Grip	6 in	Plastic	Assorted	4 in	Frostbite	**60KT75**
Non-Slip Grip	11 in	Plastic	Gray, Red	4 in	Subzero	**446V11**
Telescopic	48 in	Aluminum	Black	6 in	Manplow	**406F52**
Snow Brushes and Brooms						
Fixed	32 in	Steel	Camouflage, Green	4 ¼ in	Subzero	**446V16**
Fixed	32 in	Aluminum	Black, Yellow	½ in	True Temper	**45TX43**
Fixed	36 in	Aluminum	Black, Yellow	—	True Temper	**45PE56**
Fixed	38 in	Rubber	Black	4 ½ in	Subzero	**21EK29**
Fixed	39 in	Aluminum	Black, Gray	4 in	Mallory	**446V15**
Foam Comfort Grip	7 ½ in	Plastic	Assorted	4 in	Frostbite	**60KT76**
Foam Comfort Grip	11 in	Plastic	Assorted	4 in	Frostbite	**60KT77**
Foam Comfort Grip	26 in	Plastic	Assorted	5 in	Mallory	**1GLR4**
Foam Comfort Grip	35 in	Aluminum	Assorted	5 in	Mallory	**1GLR2**
Foam Comfort Grip	36 in	Aluminum	Assorted	4 in	Frostbite	**60KT78**
Foam Comfort Grip	36 in to 50 in	Aluminum	Assorted	4 in	Frostbite	**60KT79**
Non-Slip Grip	23 in	Rubber	Blue	3 ½ in	Subzero	**16A726**
Plastic Contour Grip	16 in	Plastic	Assorted	3 ¾ in	Mallory	**1GLR6**
Plastic Contour Grip	19 ¼ in	Plastic	Black	2 in	Ability One	**48TC59**
Telescopic	32 in to 42 in	Steel	Black, Yellow	4 in	Subzero	**446V12**
Telescopic	34 in to 52 in	Aluminum	Assorted	5 in	Mallory	**1GLP9**
Telescopic	35 in	Rubber	Black	4 ½ in	Subzero	**21EK30**
Telescopic	35 in to 48 in	Steel	Black, Yellow	4 in	Subzero	**446V13**
Telescopic	38 in to 50 in	Steel	Black, Blue	4 in	Subzero	**446V18**
Telescopic	42 in	Foam	Assorted	4 in	Subzero	**16A725**
Telescopic	48 in	Aluminum	Black, Gray	4 in	Mallory	**446V14**
Telescopic	50 in	Rubber	Black	4 ½ in	Subzero	**21EK31**
Telescopic	51 in	Plastic	Black	4 in	Subzero	**16A724**
Telescopic	54 in	Rubber	Assorted	4 in	Subzero	**21EK34**
Telescopic	54 in	Foam	Black, Blue	4 ½ in	Subzero	**16A723**
Telescopic	54 in	Aluminum	Assorted	5 in	Subzero	**49LX38**
Telescopic	60 in	Foam	Black	4 in	Subzero	**16A727**
Telescopic	60 in	Steel	Gray, Red	4 ½ in	Subzero	**446V19**
Snow Shovels and Snow Pushers						
Straight	22 in	Plastic	—	9 in	Subzero	**21EK35**
Straight	25 in	Steel	—	10 ¾ in	Westward	**38ZF78**
Straight	30 in to 37 in	Plastic	—	8 ½ in	Subzero	**16A722**

4GYU6

4GYX6

4GYY1

Vehicle Service Protection Products

Vehicle protection accessories are made with Slip-N-Grip® dual-layer plastic for extra elasticity and strength. Designed to stay in place, material will not easily slide or tear leaving carpet or upholstery exposed.

Description	Size	Color	Item No.	Pkg. Qty.
Seat Covers, Premium Plastic, Roll	32 in x 56 in	Clear	**4GYU6**	250
Seat Covers, Premium Plastic, IFB-Boxed	32 in x 56 in	Clear	**4GYU7**	250
Seat Covers, Value Plastic, Roll	32 in x 52 in	Clear	**4GYU8**	500
Floor Mats, Plastic, Roll	16½ in x 21 in	White	**4GYU9**	500
Paper Floor Mat, 17" x 22"	17 in x 22 in	White	**54ZT50**	500
Fender Covers, PVC	2 ft x 3 ft	Black	**4GYX7**	10
Car Covers, Plastic, Roll	13½ in x 25 ft	Clear	**4GYX3**	30
Tire Maskers, Plastic, Roll	45 in x 40 in	Clear	**4GYX6**	50
Heavy Duty Battery Bag	22 in x 32 in	Clear	**4GYW1**	10
Rear Wiper Blade Protector	3 in x 27 in	Clear	**4GYV9**	500
Blank Plastic Key Tag	4½ in x ¾ in	White	**4GYY1**	1000
Steering Wheel Cover 24 in Dia.	—	Clear	**4GYW8**	500
Steering Wheel Cover, Truck 35 in Dia.	—	Clear	**4GYW9**	250

2AGH4

1EZB4

Front Floor Mats and Covers

Description	Color	Wheel Dia. (in.)	Brand	Item No.
Automotive Floor Mats				
All Weather Rubber, Pkg. of 2	Black	—	Weathertech	**2AGH4**
W54 All-Weather Front Mats	Black	—	Weathertech	**2AGH7**
Steering Wheel Covers				
Universal Bucket, Includes (2) Seat Covers, (2) Head Rest Covers	Black	—	Bell	**1EZB4**
Genuine Leather Steering Wheel Cover	Black	14½ to 15½	Bell	**1EZB7**
Bandera Steering Wheel Cover	Black	15 in	Bell	**1EZC4**

32UM46

2FAH1

Automotive Mirrors

- For additional products, see Grainger.com®

Description	Brand	Mfr. Model	Item No.
Heated Round Mirror			
8" with Offset Ball Stud, Stainless Steel, Includes 60" Cable and Adhesive Heater Board	Grote	12183	**2CVK3**
Hood Mount Mirrors			
8" Fender Mount- Stainless Steel	Grote	28443	**2CVL2**
Interior Rear View Mirrors			
Rear View Mounting Kit for No. 2FAK7	Velvac	723097	**2FAK9**
Panoramic View Mirror			
2 ⁹⁄₁₆ inH" x 34 ¾ inL" with 5-Panels	Westward	32UM46	**32UM46**
Rectangle Mirrors			
4" x 5½" Stick-On, Aluminum	Velvac	723075	**2FAH1**
6½"W x 10"H Side-Mount Wide Angle, Steel with White Finish	Velvac	704032	**2FAJ8**
Black, Manual Flat Glass, Right Side	Velvac	714580	**2FAJ4**
Black, Manual Flat Glass, Left Side	Velvac	714579	**2FAJ2**
15 in" x 9 in" Truck Mirror - Split Glass, Right Side, Class A	Velvac	715642	**5MCZ4**
15 in" x 9 in" Truck Mirror - Split Glass, Left Side, Class A	Velvac	715641	**5MCZ3**
Round Blind Spot Mirrors			
3¾" Stick-On	Velvac	723065	**2DPD3**
Round Mirrors			
3" Stick-On Convex, Aluminum	Grote	12004	**2CVK1**
5" Center Mount Convex, Stainless Steel	Velvac	708520	**2DPC9**
6" Center Mount Convex, Stainless Steel	Velvac	708515	**2FAF9**
6" Convex with Mounting Arm Assembly, Stainless Steel	Grote	28043	**2CVL1**
7½" Center Mount Convex, Stainless Steel	Velvac	708508	**2FAF5**
7½" Offset Convex, Stainless Steel	Velvac	708509	**2FAF7**
8½" Center Mount Convex, Stainless Steel	Velvac	708501	**2FAF1**
8" with Offset Ball Stud, Stainless Steel	Grote	12173	**2CVK2**
8½" Offset Convex, Stainless Steel	Velvac	708502	**2FAF3**
West Coast Mirrors			
6"W x 16"H Economy, Aluminum	Grote	16244	**2CVK8**
6½"W x 16"H Economy Black Ribbed, Polypropylene	Grote	16092	**2CVK6**
6½"W x 16"H Ribbed Back, Black Finish	Velvac	705104	**2FAE6**
7" x 16" 2020 West Coast	Velvac	718388-5	**5MCZ8**
7 in" x 16 in" Heated Remote Control Mirror, Stainless Steel	Grote	28461	**2CVL3**
8 in" x 16 in" Truck Mirror - Split Glass	Velvac	718387-5	**5MCZ7**

Tailgate Spreaders

36RM29

49XE21

9VPY0

Connect to trucks, utility vehicles, tractors, and other vehicles. Integrated steel augers. Sealed, heavy-duty 12V electric drive motors and transmissions. Rustproof spinners.

Pelletized Ice Melt, Seed, and Fertilizers—Has 20-ft. insulated harness with On/Off switch and a manual flow gate with 10-ft. cable to adjust the flow rate.

Rock Salt and Nonpelletized Ice Melt—2FGV4 has 20-ft. insulated harness with On/Off switch, manual flow gate with 10-ft. cable for adjusting flow rate, and a feed auger. 49XE20 has digital, variable-speed controller that allows easy control of spread width. Includes polyethylene lid. 36RM29 and 36RM31 are prewired for an optional vibrator kit (sold separately). 36RM31 includes variable-speed controller for adjusting flow rate.

Sand/Salt or Bulk Salt—Dual variable-speed controls adjust flow rate and spread width independently. Top screen stops rocks or large chunks from getting jammed in the auger. Built-in vibrator can be turned off and on. Mounting kit with straps included, except 49XE27 (mount is available separately). Material stays dry and safe while driving: 49XE21, 9X603, 9VPY0, 36RM30, and 36RM32 have a fitted hard lid; 4CAD4 has a fitted tarp. 36RM34 has a dual-action polymer lid.

Description	Cap.	Spread Width	Mount Type	H	W	D	Brand	Mfr. Model	Item No.
Tailgate Spreaders and Sprayer									
Fertilizers, Pelletized Ice Melt, Seed	3.0 cu ft	Up to 25 ft	2 in Receiver or SnowEX	30 ½ in	31 in	22 ½ in	SnowEx	SP-125-1	**2FGV3**
Rock Salt and Nonpelletized Ice Melt	3.0 cu ft	Up to 25 ft	2 in Receiver	25 in	23 in	33 in	SnowEx	SR-210	**5RRF6**
Rock Salt and Nonpelletized Ice Melt	3.0 cu ft	Up to 25 ft	2 in Receiver or SnowEX	30 ½ in	31 in	22 ½ in	SnowEx	SP-225-1	**2FGV4**
Rock Salt and Nonpelletized Ice Melt	5.8 cu ft	Up to 30 ft	2 in Receiver	35 in	38 in	20 ½ in	SnowEx	SP-575X-1	**49XE20**
Rock Salt	4.4 cu ft	3 to 30 ft	2 in Receiver Hitch	40 ½ in	22.5 in	21 in	SaltDogg	TGSUVPROA	**36RM31**
Rock Salt	8 cu ft	3 to 30 ft	Step Bumper	45 7/10 in	29.7 in	26 in	SaltDogg	TGS01B	**36RM29**
Sand/Salt or Bulk Salt	5.3 cu ft	Up to 30 ft	3-Point Hitch or 2 in Receiver	34 in	38 in	20 ½ in	SnowEx	SP-1575-1	**49XE21**
Sand/Salt or Bulk Salt	6.0 cu ft	30 ft	3-Point Hitch, 2 in Receiver or Bed	28 in	49.5 in	24 in	SnowEx	SD-600-1	**49XE27**
50-50 Salt and Sand Mix, Bulk Salt	20.25 cu ft	5 to 30 ft	Bed	28 in	48 in	53 in	SaltDogg	SHPE0750	**9X603**
Sand/Salt or Bulk Salt	27.0 cu ft	Up to 40 ft	Bed	36 in	48.5 in	77 in	SnowEx	32600	**4CAD4**
Sand/Salt or Bulk Salt	54 cu ft	5 to 30 ft	Bed	40 in	47.8 in	96 in	SaltDogg	SHPE2000	**9VPY0**
Sand/Salt	11 cu. ft/ 825 lb.	3 to 30 ft	2 in Receiver Hitch	46 in	53 in	51 in	SaltDogg	TGS07	**36RM34**
Bagged Salt, Ice Melt	4 cu ft	3 to 30 ft	2 in Receiver Hitch	32 in	30 in	30 in	SaltDogg	TGS02	**36RM30**
Sand/Bulk Salt	8 cu ft	3 to 30 ft	2 in Receiver Hitch	45 in	38 in	38 in	SaltDogg	TGS03	**36RM32**
Bulk Materials Sand/Salt Mixtures	27 cu ft	Up to 30 ft	Bed	34 in	48 in	82 7/64 in	Buyers Products	SHPE1000	**52KD32**
Tailgate Spreader/Sprayer Accessories									
Vinyl Cover For Use with Nos. 2FGV3, 5RRF6, and 2FGV4							SnowEx	WSC-020	**5RRF8**
Material Flow Gate with Agitator and 10-ft Cable, For Use with No. 49XE20							SnowEx	GAK-020-1	**49XE22**
Variable-Speed Controller with Harness and Mounting Hardware, For Use with Nos. 2FGV3 and 2FGV4							SnowEx	VAR-020	**2HPE5**
Variable-Speed Controller, For Use with Salt Dogg TGS Series							SaltDogg	3011864	**36RM28**
Full Swing-Away Receiver Hitch, For Use with Nos. 2FGV3, 2FGV4, and 49XE20							SnowEx	PPT-175-1	**49XE24**
Spreader Drop Mount, For Use with Nos. 2FGV3, 2FGV4, and 49XE20							SnowEx	DRM-175-1	**49XE23**
Pre-Wet Spray System, 30 gal. Spray Tank, Sprayer with Hose For Use with No. 4CAD4							SnowEx	PWS-100	**49XE33**

6AHY2

Snowplow Hydraulic Fluid

Nonfoaming, antiwear formula with antifreeze additive.

Pkg. Qty.	Container Size	Item No.
1	1 qt	**6AHY2**
12	1 qt	**6AHY3**

55JH93

55JJ04

55JJ05

36RM42

2VPH5

Snowplow Lights

Headlamps come with high/low beam and turn signal light with shock-resistant mounting.

Lens Shape	Volt Bulb	Wiring Connection	Lumens	Includes	Replacement Pigtail	Item No.
LED						
Ecco						
Square	12 to 24	Hardwired	1,800 lm, 3,600 lm	(2) Headlights, Mounting Hardware, Wiring Harness	—	**55JH93**
Rectangular	12 to 24	Hardwired	1,600 lm, 2,400 lm	(2) Headlights, Mounting Hardware, Wiring Harness	—	**55JJ04**
	12 to 24	Hardwired	1,600 lm, 2,400 lm	(2) Headlights, Mounting Hardware, Wiring Harness	—	**55JJ05**
Halogen						
Buyers Products						
Rectangular	12	Plug	—	Installation Hardware, Toggle Switch, Universal Wiring Harness	—	**36RM42**
Grote						
Rectangular	12	Hardwired	40,000 lm/25,000 lm	(2) Lamps	2CXA6	**2VPH4**
	12	Hardwired	40,000 lm/25,000 lm	(2) Lamps and Connectors	2CXA6	**2VPH5**

Blade Guide Kits

- Sold in pairs

Use them on your plow or bumper to help you judge distance and avoid hidden obstacles.

H	Color	Material	Item No.
Bolt-On Base			
24 in	Fluorescent Orange	Nylon	**6AHV9**
25 in	Red	Poly	**6AHY6** *
26 in	Yellow	Nylon	**6AHV6**
27 in	Red	Nylon	**3VTH6**
28 in	Fluorescent Orange	Nylon	**3VTH4**
36 in	Fluorescent Orange	Nylon	**3VTH5**
48 in	Fluorescent Orange	Nylon	**3VTH7**
Stud Mount 3/8"-16 Base			
28 in	Fluorescent Orange	Nylon	**3VTH9**
36 in	Fluorescent Orange	Nylon	**3VTJ1**
Stud Mount 7/16"-20 Base			
22 in	Black	Nylon	**3VTJ2**

** With flags*

6AHY6

3VTH4

Snow Plow Shoe Assembly

6AHU8

6AHW3

For Use With	Type	Item No.
Shoe Assembly		
Fisher A5516	Anti-Wear, 6 in	**6AHW5**
Fisher A5517	Anti-Wear, 7 in	**6AHV1**
Meyer 09126	Standard, 8 in	**6AHU8**
Western 49067	Standard, 6 in	**6AHW3**
Western 49071	Heavy Duty, 6 in	**6AHW4**

Truck Boxes

- Fully weather resistant
- Powder-coated finish
- Tamper-Resistant Lock

Keep expensive tools safe and prevent them from sliding around your truck bed. Choose from a selection of boxes including crossover truck boxes, chests boxes, wheel well boxes, lo-side boxes, and hi-side boxes.

Cross
4NY51

Cross
13R613

Chest
13R619

Wheel Well
14V908

Lo-Side
4NY48

Hi-Side
13R603

Hi-Side
55AG14

Color	Lid Style	Overall Width	Overall Depth	Overall Height	Storage Cap.	Box Type	Brand	Item No.
Crossover Boxes								
Diamond Tread Aluminum								
Black	Single	62 ½ in	20 ½ in	13 ½ in	6 cu ft	Compact	Weather Guard	**61UP61**
Black	Single	62 ½ in	20 ½ in	18 ½ in	8 cu ft	Compact Deep	Weather Guard	**61UP59**
Black	Single	62 ½ in	20 ½ in	18 ½ in	7.7 cu ft	Compact Low Profile	Weather Guard	**61UP27**
Black	Single	62 ½ in	20 ½ in	18 ½ in	8 cu ft	Compact Deep	Weather Guard	**61UP25**
Black	Single	70 ¼ in	20 ¼ in	14 9/16 in	9.2 cu ft	Fullsize	Crescent Jobox	**4NY58**
Black	Single	72 in	20 ½ in	24 in	14.2 cu ft	Full Deep	Weather Guard	**61UP53**
Black	Single	72 in	20 ½ in	18 ½ in	10.2 cu ft	Full Low Profile	Weather Guard	**61UP32**
Black	Single	72 in	20 ½ in	18 ½ in	10.5 cu ft	Full Standard	Weather Guard	**61UP31**
Black	Single	72 in	27 ½ in	18 ½ in	14.4 cu ft	Full Extra Wide	Weather Guard	**61UP30**
Black	Single	72 in	20 ½ in	24 in	14.2 cu ft	Full Deep	Weather Guard	**61UP24**
Black	Single	72 in	20 ½ in	18 ½ in	10.2 cu ft	Full Low Profile	Weather Guard	**61UP22**
Black	Single	72 in	27 ½ in	18 ½ in	14.4 cu ft	Full Extra Wide	Weather Guard	**61UP20**
Black	Single	72 in	20 ¼ in	18 ½ in	10.5 cu ft	Full Standard	Weather Guard	**61UP19**
Silver	Double	70 ⅛ in	20 ⅞ in	14 ¼ in	9.2 cu ft	Fullsize	Crescent Jobox	**4NY53**
Silver	Gull Wing	71 ½ in	28 ¼ in	18 ½ in	15.3 cu ft	Full Extra Wide	Weather Guard	**13R613**
Silver	Gull Wing	71 ½ in	20 ¾ in	18 ½ in	11.3 cu ft	Full Standard	Weather Guard	**13R560**
Silver	Single	60 ⅛ in	20 ⅞ in	11 ¼ in	6.1 cu ft	Compact	Crescent Jobox	**4NY52**
Silver	Single	70 ⅛ in	20 ⅞ in	14 ¼ in	9.2 cu ft	Fullsize	Crescent Jobox	**4NY50**
Silver	Single	71 ⅛ in	20 ⅞ in	17 ¼ in	11.3 cu ft	Fullsize Deep	Crescent Jobox	**5HE87**
Silver	Single	71 ⅛ in	21 in	15 ⅛ in	9.1 cu ft	Low Profile	Crescent Jobox	**2VUY4**
Silver	Single	71 ⅛ in	21 in	19 ⅞ in	13 cu ft	Fullsize Deep	Crescent Jobox	**4NY51**
Silver	Single	71 in	20 in	18 in	14.8 cu ft	Standard	Buyers Products	**60NU16**
Silver	Single	72 in	20 ½ in	24 in	14.2 cu ft	Full Deep	Weather Guard	**61UP23**
Silver	Single	72 in	27 ½ in	18 ½ in	14.4 cu ft	Full Extra Wide	Weather Guard	**61UP18**
Silver	Single	72 in	20 ½ in	18 ½ in	10.5 cu ft	Full Standard	Weather Guard	**61UP17**
Steel								
Black	Single	72 in	20 ½ in	24 in	14.3 cu ft	Full Deep	Weather Guard	**61UP56**
Black	Single	72 in	20 ½ in	18 ½ in	10.6 cu ft	Low Profile	Weather Guard	**61UP38**
Black	Single	72 in	27 ½ in	18 ½ in	14.5 cu ft	Full Extra Wide	Weather Guard	**61UP36**
Black	Single	72 in	20 ½ in	18 ½ in	10.6 cu ft	Standard	Weather Guard	**61UP35**
White	Gull Wing	71 ½ in	20 ¾ in	18 ½ in	11.3 cu ft	Full Standard	Weather Guard	**13R577**
White	Gull Wing	71 in	20 ⅞ in	14 ¼ in	9.2 cu ft	Fullsize	Crescent Jobox	**4NY54**
White	Single	61 in	27 ¼ in	11 ¼ in	6.1 cu ft	Compact	Crescent Jobox	**4NY56**
White	Single	71 in	20 ¼ in	17 ¼ in	11.3 cu ft	Fullsize Deep	Crescent Jobox	**4NY57**
White	Single	71 in	20 ⅞ in	14 ¼ in	9.2 cu ft	Truck Box	Crescent Jobox	**4NY55**
White	Single	72 in	20 ½ in	24 in	14.3 cu ft	Full Deep	Weather Guard	**61UP39**
White	Single	72 in	27 ½ in	18 ½ in	14.5 cu ft	Full Extra Wide	Weather Guard	**61UP34**
White	Single	72 in	20 ¼ in	18 ½ in	10.6 cu ft	Standard	Weather Guard	**61UP33**
Chest Boxes								
Diamond Tread Aluminum								
Black	Single	47 in	20 ½ in	19 ½ in	10 cu ft	Full Compact	Weather Guard	**38TG26**
Black	Single	47 in	20 ¼ in	19 ¼ in	10 cu ft	Full Compact	Weather Guard	**13R593**
Black	Single	55 in	20 in	19 ¼ in	12 cu ft	Compact	Weather Guard	**13R604**
Black	Single	62 in	20 in	19 ¼ in	13.1 cu ft	Full	Weather Guard	**38TG27**
Black	Single	62 in	27 ½ in	19 ¼ in	18.6 cu ft	Full Extra Wide	Weather Guard	**13R615**
Black	Single	62 in	20 in	19 ¼ in	13.1 cu ft	Full	Weather Guard	**13R574**
Silver	Single	47 in	20 ¼ in	19 ¼ in	10 cu ft	Full Compact	Weather Guard	**13R581**
Silver	Single	55 in	20 in	19 ¼ in	12 cu ft	Compact	Weather Guard	**13R619**
Silver	Single	61 in	27 ⅝ in	19 ⅜ in	17 cu ft	Extra Wide	Crescent Jobox	**4NY47**
Silver	Single	61 in	20 ⅝ in	19 ⅜ in	16.4 cu ft	Full	Crescent Jobox	**787LC1**
Silver	Single	62 in	27 ½ in	19 ¼ in	18.6 cu ft	Full Extra Wide	Weather Guard	**13R620**
Silver	Single	62 in	20 ¼ in	19 ¼ in	13.1 cu ft	Full	Weather Guard	**13R570**
Steel								
Black	Single	62 in	20 in	19 ¼ in	13.1 cu ft	Full	Weather Guard	**13R608**
White	Single	37 in	20 ¼ in	16 ¼ in	6 cu ft	Compact	Weather Guard	**14V929**
White	Single	47 in	20 ¼ in	19 ¼ in	10 cu ft	Full Compact	Weather Guard	**13R586**
White	Single	55 in	20 ¼ in	19 ¼ in	12 cu ft	Full Compact	Weather Guard	**13R611**
White	Single	62 in	27 ½ in	19 ¼ in	18.6 cu ft	Full Extra Wide	Weather Guard	**13R609**
White	Single	62 in	20 ¼ in	19 ¼ in	13.1 cu ft	Full	Weather Guard	**13R567**
Wheel Well Truck Box								
Diamond Tread Aluminum								
Black	Single	46 ¾ in	13 ½ in	19 ½ in	3.4 cu ft	Driver Side	Weather Guard	**14V908**
Silver	Single	46 ¾ in	9 ¼ in	19 ½ in	2.1 cu ft	Passenger Side	Weather Guard	**14V907**
Silver	Single	46 ¾ in	13 ½ in	19 ½ in	3.4 cu ft	Passenger Side	Weather Guard	**14V909**

Color	Lid Style	Overall Width	Overall Depth	Overall Height	Storage Cap.	Brand	Item No.
Lo-Side Boxes							
Diamond Tread Aluminum							
Black	Single	41 in	16 ¼ in	13 ¼ in	3 cu ft	Weather Guard	**61UP43**
Black	Single	56 in	16 ¼ in	13 ¼ in	4.1 cu ft	Weather Guard	**61UP42**
Black	Single	56 in	16 ¼ in	13 ¼ in	4.1 cu ft	Weather Guard	**61UP47**
Silver	Single	41 in	16 ¼ in	13 ¼ in	3 cu ft	Weather Guard	**61UP41**
Silver	Single	56 in	16 ¼ in	13 ¼ in	4.1 cu ft	Weather Guard	**61UP40**
Silver	Single	58 ½ in	12 ¼ in	11 in	3.2 cu ft	Crescent Jobox	**4NY48**
Steel							
Black	Single	41 in	13 ½ in	13 in	3.2 cu ft	Weather Guard	**61UP80**
White	Single	41 in	13 ½ in	13 in	3.2 cu ft	Weather Guard	**61UP50**
White	Single	56 in	13 ⅝ in	12 ⅞ in	4.5 cu ft	Weather Guard	**61UP49**
White	Single	58 ½ in	12 ¼ in	11 ⅛ in	3.2 cu ft	Crescent Jobox	**4NY49**
Hi-Side Boxes							
Diamond Tread Aluminum							
Black	Double	64 ¼ in	16 ¼ in	18 in	10.8 cu ft	Weather Guard	**13R585**
Black	Double	64 ¼ in	13 ¼ in	16 in	7.9 cu ft	Weather Guard	**14V939**
Black	Double	72 ¼ in	13 ¼ in	16 in	8.9 cu ft	Weather Guard	**14V940**
Black	Double	90 ¼ in	16 ¼ in	18 in	15.2 cu ft	Weather Guard	**14V945**
Black	Double	90 ½ in	16 ½ in	18 in	15.2 cu ft	Weather Guard	**38TG30**
Black	Double	90 ¼ in	13 ¼ in	16 in	11.1 cu ft	Weather Guard	**14V941**
Silver	Double	64 ¼ in	16 ¼ in	18 in	10.8 cu ft	Weather Guard	**13R612**
Silver	Double	64 ¼ in	13 ¼ in	16 in	7.9 cu ft	Weather Guard	**13R618**
Silver	Double	72 ¼ in	13 ¼ in	16 in	8.9 cu ft	Weather Guard	**13R591**
Silver	Double	72 in	15 in	17 in	10.6 cu ft	Crescent Jobox	**4TKF8**
Silver	Double	88 in	15 in	17 in	13 cu ft	Crescent Jobox	**4TKF7**
Silver	Double	90 ¼ in	16 ¼ in	18 in	15.2 cu ft	Weather Guard	**13R568**
Silver	Double	90 ¼ in	13 ¼ in	16 in	11.1 cu ft	Weather Guard	**13R564**
Silver	Double	96 ¼ in	13 ¼ in	16 in	11.8 cu ft	Weather Guard	**13R603**
Silver	Single	45 ½ in	16 ¼ in	18 in	7.7 cu ft	Weather Guard	**14V943**
Silver	Single	45 ½ in	13 ¼ in	16 in	5.6 cu ft	Weather Guard	**14V937**
White	Double	90 ½ in	16 ½ in	18 in	15.2 cu ft	Weather Guard	**38TG35**
Steel							
Black	Double	72 in	13 in	16 in	8.6 cu ft	Buyers Products	**55AG14**
White	Double	64 ¼ in	16 ¼ in	18 in	10.8 cu ft	Weather Guard	**14V936**
White	Double	64 ¼ in	13 ¼ in	16 in	7.9 cu ft	Weather Guard	**14V933**
White	Double	72 in	15 in	17 in	10.6 cu ft	Crescent Jobox	**4TKG1**
White	Double	72 ¼ in	13 ¼ in	16 in	8.9 cu ft	Weather Guard	**13R610**
White	Double	90 ¼ in	16 ¼ in	18 in	15.2 cu ft	Weather Guard	**13R584**
White	Double	90 ¼ in	13 ¼ in	16 in	11.1 cu ft	Weather Guard	**13R583**
White	Double	96 in	15 in	17 in	14.2 cu ft	Crescent Jobox	**4TKF9**
White	Double	96 ¼ in	16 in	24 in	21.4 cu ft	Weather Guard	**13R602**
White	Double	96 ¼ in	13 ¼ in	16 in	11.8 cu ft	Weather Guard	**14V934**
White	Single	45 ½ in	13 ¼ in	16 in	5.6 cu ft	Weather Guard	**14V932**
White	Single	45 ½ in	16 ¼ in	18 in	7.7 cu ft	Weather Guard	**14V935**

Underbed Truck Boxes

Protect against weather and theft with locking latch. Can be mounted on either a flat surface or underbed. Installation requires mounting brackets, sold separately

Single Drop Door 14V927

Single Barn Door 6RHR8

Double Barn Door 6RHT2

Double Drop Door 6RHL6

Single Drop Door 55AG08

Mounting Bracket 55AG05

Color	Overall Width	Overall Depth	Overall Height	Latch Mechanism	Brand	Item No.
Diamond Tread Aluminum						
Single Drop Door						
Silver	18 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHP6**
Silver	24 ⅛ in	12 ¼ in	14 in	Paddle Handle	Weather Guard	**14V927**
Silver	24 in	12 in	14 in	T-Handle Compression	Buyers Products	**6RHP4**
Silver	24 in	16 in	14 in	T-Handle Compression	Buyers Products	**6RHP5**
Silver	24 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG16**
Silver	24 in	24 in	24 in	T-Handle Compression	Buyers Products	**6RHP9**
Silver	30 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHP7**
Silver	30 in	24 in	24 in	T-Handle Compression	Buyers Products	**6RHR0**
Silver	36 ⅝ in	18 in	18 in	Paddle Handle	Weather Guard	**14V928**
Silver	36 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG17**
Silver	36 in	24 in	24 in	T-Handle Compression	Buyers Products	**6RHR1**
Silver	48 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG18**
Silver	48 in	24 in	24 in	T-Handle Compression	Buyers Products	**6RHR2**
Silver	60 ⅛ in	24 in	24 in	Paddle Handle	Weather Guard	**14V887**
Silver	60 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHP8**
Silver	60 in	24 in	24 in	T-Handle Compression	Buyers Products	**6RHR3**
Single Barn Door						
Silver	18 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHR7**
Silver	24 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHR8**
Silver	30 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHR9**
Double Barn Door						
Silver	36 in	24 in	24 in	T-Handle	Buyers Products	**6RHT2**
Silver	36 in	24 in	24 in	T-Handle	Buyers Products	**6RHT0**
Silver	48 in	24 in	24 in	T-Handle	Buyers Products	**6RHT3**
Silver	48 in	24 in	24 in	T-Handle	Buyers Products	**6RHT1**
Silver	60 in	24 in	24 in	T-Handle	Buyers Products	**6RHT4**
Stainless Steel						
Single Drop Door						
Silver	24 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHN7**
Silver	36 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHN8**
Silver	48 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHN9**
Double Barn Door						
Silver	60 in	24 in	24 in	3-Point	Buyers Products	**55MX40**
Steel						
Single Drop Door						
Black	18 in	14 in	16 in	T-Handle	Buyers Products	**6RHL5**
Black	18 in	24 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL37**
Black	18 in	30 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL47**
Black	18 in	36 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL38**
Black	18 in	48 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL39**
Black	18 in	60 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL40**
Black	24 ⅛ in	12 ⅜ in	14 ⅛ in	D-Handle	Weather Guard	**14V924**
Black	24 in	12 in	14 in	Paddle Handle	Buyers Products	**6RHK5**
Black	24 in	16 in	14 in	Paddle Handle	Buyers Products	**6RHK6**
Black	24 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHK8**
Black	24 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG07**
Black	24 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHL2**
Black	24 in	24 in	24 in	T-Handle	Buyers Products	**6RHL7**
Black	25 ½ in	24 ¼ in	24 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL48**
Black	25 ½ in	36 ¼ in	24 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL41**
Black	25 ½ in	48 ¼ in	24 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL42**
Black	30 ⅛ in	18 ⅛ in	18 ¼ in	D-Handle, 3-Point	Weather Guard	**13R616**
Black	30 in	16 in	14 in	Paddle Handle	Buyers Products	**6RHK7**
Black	30 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG08**
Black	30 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHK9**
Black	30 in	24 in	24 in	T-Handle	Buyers Products	**6RHL8**
Black	36 ⅝ in	18 ¼ in	18 ⅛ in	D-Handle, 3-Point	Weather Guard	**13R588**
Black	36 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHL0**
Black	36 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG09**
Black	36 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHL3**
Black	48 ⅛ in	18 ¼ in	18 ⅛ in	D-Handle, 3-Point	Weather Guard	**13R617**
Black	48 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG10**
Black	48 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHL1**
Black	48 in	18 in	18 in	T-Handle Compression	Buyers Products	**6RHL4**
Black	48 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG12**
Black	48 in	24 in	18 in	T-Handle	Buyers Products	**6RHN0**
Black	60 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG13**
Black	60 in	24 in	24 in	T-Handle	Buyers Products	**6RHL9**
Black/ Silver	36 in	18 in	18 in	T-Handle Compression	Buyers Products	**55AG11**
White	18 in	24 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL43**
White	18 in	36 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL44**
White	18 in	48 in	18 in	3-Point, Rotating T-Handle	Crescent Jobox	**61HL45**
White	24 in	18 in	18 in	T-Handle	Buyers Products	**6RHT5**
White	24 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHN1**
White	30 in	16 in	14 in	Paddle Handle	Buyers Products	**6RHN6**
White	30 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHN2**
White	30 in	18 in	18 in	T-Handle	Buyers Products	**6RHT6**
White	36 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHN3**
White	36 in	18 in	18 in	T-Handle	Buyers Products	**6RHT7**
White	48 in	18 in	18 in	T-Handle	Buyers Products	**6RHT8**
White	48 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHN4**
White	60 in	18 in	18 in	T-Handle	Buyers Products	**6RHT9**
White	60 in	18 in	18 in	Paddle Handle	Buyers Products	**6RHN5**
Double Drop Door						
Black	72 in	18 in	18 in	T-Handle	Buyers Products	**6RHL6**
Truck Box Accessories						
Mounting Bracket 15 in x 14 in					—	**8M755**
Mounting Bracket 15 in x 40 in					Buyers Products	**6RHU2**
Mounting Bracket 18 in x 18 in					Buyers Products	**6RHU3**
Mounting Bracket 18 in x 18 in					Crescent Jobox	**4EA12**
Mounting Bracket 18 in x 24 in					Crescent Jobox	**4EA13**
Mounting Bracket 18 in x 3 in					Buyers Products	**55AG05**
Mounting Bracket 24 in x 24 in					Buyers Products	**6RHU4**
Square Bend U-Bolt Kit 16 in x ½ in x 4 ¼ in					Buyers Products	**55MX33**
Square Bend U-Bolt Kit 18 in x ½ in x 4 ¼ in					Buyers Products	**55MX34**
Square Bend U-Bolt Kit 20 in x ½ in x 4 ¼ in					Buyers Products	**55MX32**
Tool Tray 4 ½ in x 11 ¾ in					Weather Guard	**14V922**
Tool Tray 9 11/16 in x 3 5/16 in					Weather Guard	**14V921**

Liquid Transfer Tanks

Tanks are not intended for use with flammable liquids such as gasoline. L-shaped tanks are designed for use with crossover-style truck boxes. 1FEG2 combo includes removable storage chest for tools and equipment. All Weather Guard tanks are for use with diesel fuel only.

No.1FEG2

1RD40

1RD42

Overall Width	Overall Depth	Overall Height	Cap.	Color	Brand	Item No.
0.125 Gauge Aluminum						
L-Shape						
57 ½ in	31 in	25 in	99 gal	Silver	Crescent Jobox	**1FEG3**
48 ¼ in	31 in	19 in	72 gal	Silver	Crescent Jobox	**1FEG2**
Rectangle						
45 ¼ in	23 ¼ in	23 ¼ in	91 gal	Silver	Crescent Jobox	**9LF07**
Square						
23 ¼ in	23 ¼ in	23 ¼ in	47 gal	Silver	Crescent Jobox	**9FZR7**
12 Gauge Steel						
Rectangle						
45 ¼ in	24 in	23 in	100 gal	Black	Weather Guard	**38TG38**
14 Gauge Steel						
L-Shape						
60 ¼ in	33 in	25 in	98 gal	White	Crescent Jobox	**1FEG1**
54 in	31 in	25 in	86 gal	White	Crescent Jobox	**1RD44**
54 in	31 in	25 in	103 gal	White	Crescent Jobox	**1RD40**
52 in	30 in	26 in	90 gal	White	Weather Guard	**13R557**
52 in	30 in	26 in	90 gal	Black	Weather Guard	**38TG39**
49 in 56 in	37 ½ in	27 in	110 gal	Black	Weather Guard	**38TG40**
43 ½ in	30 in	26 in	75 gal	White	Weather Guard	**13R596**
43 ½ in	30 in	26 in	75 gal	Black	Weather Guard	**38TG37**
37 ½ in	49 in	27 in	110 gal	White	Weather Guard	**13R575**
32 ¼ in	30 in	22 in	50 gal	Black	Weather Guard	**38TG36**
32 ¼ in	30 in	22 in	50 gal	White	Weather Guard	**14V923**
Rectangle						
59 ⅝ in	9 in	19 in	37 gal	White	Crescent Jobox	**1RD43**
45 ¼ in	23 ¼ in	24 in	96 gal	White	Crescent Jobox	**1RD41**
45 ¼ in	24 in	23 in	100 gal	White	Weather Guard	**13R559**
Square						
55 ¼ in	12 ½ in	27 in	50 gal	Black	Weather Guard	**53KJ63**
23 ¼ in	23 ¼ in	24 in	50 gal	White	Crescent Jobox	**1RD42**
12 ½ in	55 ¼ in	27 in	50 gal	White	Weather Guard	**53KJ62**

Trailer Tongue Boxes

Rugged, dent-resistant construction with a rust-resistant finish. 55CH83 features an offset, gas spring lid lift to ease access from the driver's side. The deep recessed hinge allows the box to fully open when mounted against a rail or trailer. 55AG06 zinc-plated hasp resists corrosion and fits standard padlocks.

55CH83

55AG06

Body Material	Latch Mechanism	Locking System	Mounting Style	Overall Width	Overall Depth	Overall Height	Storage Cap.	Color	Item No.
Crescent Jobox									
Aluminum	Paddle Handle	Keyed with Drill-Resistant Lock Core	Bolt-On	16 in	33 in	20 ½ in	4.5 cu ft	Silver	**55CH83**
Buyers Products									
Polyethylene	Hasp	—	Bolt-On	36 in	18 in	18 in	7.1 cu ft	Black	**55AG06**

20PM73

20PM74

20PM70

444H13

45C150

20PV29

2ZPU9

20PV24

20PM82

444G88

3KXY3

21T080

2ZPT8

3KYE6

3DPV2

21T078

REESE™

Buyers Products Company

Trailer Ball Mounts

To select the correct ball mount you must be sure the total weight of the trailer and its cargo does not exceed the weight capacity of your vehicle.

Ball Mounts attach to the hitch of the tow vehicle and connect to the trailer coupler. If a trailer rides lower or higher than the tow vehicle, a ball mount can be used to make up the difference in height, so they are level for towing.

Ball Mounts with Hitch Ball have multiple trailer balls with different diameters on one shank. Easily switch between ball sizes for different towing jobs, without having to purchase multiple ball mounts.

Gross Vehicle Weight Capacity	Vehicle Class	Ball Shank Diameter	Drop	Rise	Pin Hole to Hitch Ball Distance	Finish	Features	Brand	Item No.
Ball Mounts									
1¼" Compatible Hitch Size									
3,500 lb	II	¾ in	1 ¼ in	¾ in	9 in	Zinc	Quick Load	Reese	**20PM72**
	II	¾ in	1 ¼ in	¾ in	9 in	Powder Coated	Hex Interlock, Angle Cut Design	Reese	**20PM85**
	II	¾ in	1 ¼ in	¾ in	7 in	Powder Coated	Hex Interlock	Reese	**444H04**
	II	¾ in	2 ½ in	2 in	7 in	Zinc	Made of Solid, All-Welded Construction	Reese	**20PM73**
	II	¾ in	2 ½ in	2 in	7 in	Powder Coated	Hex Interlock, Angle Cut Design	Reese	**20PM84**
	II	¾ in	2 in	1 ½ in	8 ½ in	Powder Coated	Hex Interlock	Reese	**444H05**
	II	¾ in	3 in	1 ½ in	8 ½ in	Powder Coated	Hex Interlock	Reese	**444H06**
2" Compatible Hitch Size									
5,000 lb	III	1 in	3 ¼ in	2 in	8 ¾ in	Powder Coated	Hex Interlock, Angle Cut Design	Reese	**21T180**
	IV	1 in	4 in	2 ½ in	8 ¾ in	Powder Coated	Hex Interlock	Reese	**444H14**
	III	1 in	5 ¼ in	4 in	10 in	Powder Coated	Hex Interlock, Angle Cut Design	Reese	**21T182**
	IV	1 in	5 in	3 ½ in	10 in	Powder Coated	Hex Interlock	Reese	**444H15**
	III	1 in	7 ½ in	6 ¼ in	10 ½ in	Powder Coated	Quick Release Pin and Clip for Adjustability	Reese	**20PM74**
	III	1 in	8 in	6 ¾ in	10 in	Powder Coated	Easy Load Angle Cut Design	Reese	**20PM81**
6,000 lb	III	1 in	2 in	¾ in	9 in	Stainless Steel	Hex Interlock, Angle Cut Design	Reese	**20PM70**
	III	1 in	2 in	¾ in	9 in	Powder Coated	Hex Interlock, Angle Cut Design	Reese	**21T181**
	III	1 in	2 in	¾ in	9 in	Powder Coated	Easy Load Angle Cut Design	Reese	**2YB96**
	III	1 in	3 ¼ in	2 in	9 ½ in	Stainless Steel	Hex Interlock, Angle Cut Design	Reese	**20PM83**
	III	1 in	3 ¼ in	2 in	9 ½ in	Powder Coated	Easy Load Angle Cut Design	Reese	**2PJ81**
	IV	1 in	3 in	1 ½ in	9 in	Powder Coated	Hex Interlock	Reese	**444H13**
	IV	1 in	3 in	1 ½ in	8 ½ in	Black Nickel	Hex Interlock	Reese	**45C150**
	IV	1 in	4 in	2 ½ in	11 in	Powder Coated	Easy Load Angle Cut Design	Reese	**20PM80**
	III	1 in	5 ¼ in	4 in	10 in	Powder Coated	Easy Load Angle Cut Design	Reese	**2PJ82**
7,000 lb	IV	1 in	2 in	¾ in	8 in	Powder Coated	Hex Interlock	Reese	**444H12**
	IV	1 in	2 in	¾ in	8 in	Black Nickel	Hex Interlock	Reese	**45C149**
7,500 lb	IV	1 in	4 in	2 ½ in	9 in	Powder Coated	Easy Load Angle Cut Design	Reese	**20PM79**
13,000 lb	V	1 ¼ in	5 in	3 ½ in	10 in	Powder Coated	Hex Interlock	Reese	**444H17**
16,000 lb	V	1 ¼ in	2 in	1 in	9 ½ in	Powder Coated	Solid One-Piece Forged Construction	Reese	**1XUA3**
	V	1 ¼ in	4 in	3 in	10 in	Powder Coated	Solid One-Piece Forged Construction	Reese	**1XUA4**
	V	1 ¼ in	6 in	5 in	10 ½ in	Powder Coated	Solid One-Piece Forged Construction	Reese	**1XUA5**
2½" Compatible Hitch Size									
13,000 lb	V	1 ¼ in	5 in	3 ½ in	10 in	Powder Coated	Easy Load Angle Cut Design	Reese	**2ZPX8**
	V	1 ¼ in	7 ¾ in	Not Applicable	10 ½ in	Powder Coated	Use In Drop Position Only	Reese	**2ZPX9**
14,000 lb	V	1 ¼ in	3 in	1 ½ in	10 in	Powder Coated	Easy Load Angle Cut Design	Reese	**2ZPX7**
	V	1 ¼ in	3 in	1 ½ in	9 ½ in	Powder Coated	Hex Interlock	Reese	**444H16**

Gross Vehicle Weight Capacity	Vehicle Class	Ball Diameter	Drop	Rise	Pin Hole to Hitch Ball Distance	Finish	Includes	Brand	Item No.
Ball Mount Kits									
1¼" Compatible Hitch Size									
3,500 lb	II	2 in	2 in	¾ in	7 in	Powder Coated	Clip, Hitch Ball, Pin	Reese	**20PV29**
2" Compatible Hitch Size									
2,000 lb, 6,000 lb, 16,000 lb	IV	1 7/8 in, 2 in, 2 5/16 in	7 in	7 in	10 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball, Pins/Clips	Reese	**2ZPU9**
5,000 lb	III	2 in	3 ¼ in	2 in	8 ¾ in	Powder Coated	Clip, Interlock Ball Mount with Interlock Hitch Ball, Pin	Reese	**20PV25**
	III	2 in	3 ¼ in	2 in	9 ½ in	Powder Coated	Clip, Hitch Ball, Pin	Reese	**20PV27**
	III	2 in	3 ¼ in	2 in	9 ½ in	Black Nickel	Clip, Interlock Ball Mount with Interlock Hitch Ball, Pin	Reese	**20PM87**
	III	2 in	4 in	3 in	8 ¾ in	Powder Coated	Hitch Ball, Locking Pin and Two Flat keys	Reese	**20PV23**
6,000 lb	III	2 in	2 ½ in	2 in	8 3/16 in	Powder Coated	Clip, Interlock Ball Mount with Interlock Hitch Ball, Pin	Reese	**2ZPR5**
	III	2 in	2 in	5 in	9 in	Powder Coated	Clip, Hitch Ball, Pin	Reese	**20PV24**
	III	2 in	2 in	¾ in	9 in	Black Nickel	Clip, Interlock Ball Mount with Interlock Hitch Ball, Pin	Reese	**20PM86**
6,000 lb, 7,500 lb, 10,000 lb	—	1 7/8 in, 2 in, 2 5/16 in	6 in	6 in	16	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball, Pins/Clips	Buyers Products	**30PD22**
Ball Mounts with Hitch Ball									
2" Compatible Hitch Size									
2,000 lb	V	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball, Hook	Reese	**20PM82**
	III	1 7/8 in, 2 in	2 in	¾ in	10 in	Powder Coated	1 7/8 in Ball, 2 in Ball	Reese	**1XUA6**
2,000 lb, 6,000 lb, 10,000 lb	IV	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Reese	**444G88**
6,000 lb, 7,500 lb, 10,000 lb	—	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball, Pintle Hook	Buyers Products	**3KXY3**
	—	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Buyers Products	**3KYD3**
	—	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball, Hook	Buyers Products	**30PD24**
	—	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Buyers Products	**30PD26**
	—	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Buyers Products	**30PD27**
7,500 lb, 10,000 lb	—	2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	2 in Ball, 2 5/16 in Ball	Buyers Products	**30PD25**
10,000 lb	IV	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Reese	**1XUA7**
16,000 lb	V	1 7/8 in, 2 in, 2 5/16 in	0 in	0 in	8 in	Powder Coated	1 7/8 in Ball, 2 in Ball, 2 5/16 in Ball	Reese	**21T081**
3" Compatible Hitch Size									
17,000 lb, 25,000 lb	V	2 in, 2 5/16 in	0 in	0 in	9 in	Powder Coated	2 5/16 in Hitch Ball	Reese	**21T080**

Description	Brand	Item No.
Receiver Mount Accessories		
Clevis Trailer Hitch Ball Mount, 6,000 lbs. Capacity, Fits 2 in. Receiver	Reese	**6ZAR0**
Front Receiver Mount Winch Plate, Fits 2 in Receiver	Reese	**2ZPT6**
Front Receiver Work Step ,Fits 2 in Receiver	Reese	**2ZPT8**
Hitch Mount Canoe Loader	Reese	**20PT99**
Hitch Step	Reese	**45C148**
Receiver Fabrication Part, 2 in Receiver, 12 in L	Reese	**20PM68**
Receiver Fabrication Part, 2 in Receiver, 6 in L	Reese	**20PM69**
Receiver Tube Bolt-On, 2 in Receiver, 6 in L	Buyers Products	**3KYA9**
Recovery Ring Trailer Hitch Ball Mount, Fits 2 in. Receiver	Buyers Products	**3KYE6**
Recovery Ring Trailer Hitch Ball Mount, Fits 2 in. Receiver	Reese	**2ZPV7**
Tow Ring Trailer Hitch Ball Mount, Fits 2 in. Receiver	Reese	**2ZPV8**
Trailer Hitch Adapter, 1 ¼ in to 2 in Receiver, 10 in L	Reese	**3DPV4**

Description	Brand	Item No.
Trailer Hitch Adapter, 1 ¼ in to 2 in Receiver, 6 in L	Reese	**3DPV3**
Trailer Hitch Adapter, 2 ½ in to 2 in Receiver, 6 in L	Reese	**3DPV2**
Trailer Hitch Adapter, 2 in to 1 ¼ in Receiver, 7 in L	Reese	**21T102**
Trailer Hitch Adapter, 3 in to 2 in Receiver, 4 in L	Reese	**21T078**
Trailer Hitch Extension, Fits 2 in Receiver, 12 in L	Buyers Products	**3KYC3**
Trailer Hitch Extension, Fits 2 in Receiver, 14 in L	Reese	**20PM65**
Trailer Hitch Extension, Fits 2 in Receiver, 18 in L	Reese	**20PM66**
Trailer Hitch Extension, Fits 2 in Receiver, 18 in L	Buyers Products	**3KYC6**
Trailer Hitch Extension, Fits 2 in Receiver, 18 in L, w/ Step	Reese	**20PM67**
Trailer Hitch Tube Cover, Fits 1 ¼ in Receiver, Black	Reese	**20PM35**
Trailer Hitch Tube Cover, Fits 2 in. Receiver, Black	Reese	**1XUA9**
Vehicle Recovery Ring Trailer Hitch Ball Mount, Fits 2 in. Receiver	Reese Towpower	**38ZD61**

REESE™ Buyers

Pintle Hooks & Hitches

20PV21

2ZPV5

6ZAP1

30PD48

Pintle hooks are paired with lunette rings to create pintle hitches. These hitches allow for flexibility or swivel motion during towing, making them ideal for heavy-duty or off-road towing on rough terrain.

Air Compensated Pintle Hooks absorb shock and reduce movement between towing parts for less wear and tear.

Mounting Plates allow changing the mounting position to accommodate various trailer heights and ensure trailers are level for transport.

30PD44

2PU10

20PV20

Gross Trailer Weight Capacity	Tongue Weight	Ball Dia.	Vehicle Class	Brand	Item No.
Pintle Hook Hitches with Ball Mount					
Bolt On					
16,000 lb	3,000 lb	2 5/16 in	III, IV, V	Reese	**20PV19**
	3,000 lb	1 ⅞ in	III, IV, V	Reese	**20PV21**
10,000 lb	3,000 lb	2 in	III, IV, V	Reese	**2PJ97**
16,000 lb	12,000 lb	2 in	—	Buyers Products	**3KYE9**
	3,000 lb	2 in	III, IV, V	Reese	**444G91**
2 in Hitch Mount					
12,000 lb	2,400 lb	1 ⅞ in	III, IV, V	Reese	**2ZPV2**
	2,400 lb	2 in	III, IV, V	Reese	**2ZPV3**
	2,400 lb	2 5/16 in	III, IV, V	Reese	**2ZPV4**

Gross Trailer Weight Capacity	Tongue Weight	No. of Mounting Holes	Mounting Hole Diameter	Brand	Item No.
Pintle Hook Mounts					
2 in Hitch Mount					
10,000 lb	2,000 lb	Not Applicable	Not Applicable	Reese	**2ZPV5**
Pintle Hooks					
Bolt On					
12,000 lb	2,400 lb	4	17/32 in	Buyers Products	**497D90**
	2,400 lb	4	17/32 in	Buyers Products	**497D91**
20,000 lb	4,000 lb	4	½ in	Reese	**2PJ98**
	4,000 lb	4	17/32 in	Buyers Products	**497D92**
	4,000 lb	4	17/32 in	Buyers Products	**497D93**
30,000 lb	6,000 lb	4	½ in	Reese	**2PJ99**
	6,000 lb	4	17/32 in	Buyers Products	**30PD71**
	6,000 lb	4	17/32 in	Buyers Products	**6ZAP0**
40,000 lb	8,000 lb	4	19/32 in	Buyers Products	**30PD64**
	8,000 lb	4	19/32 in	Buyers Products	**6ZAP1**
60,000 lb	14,000 lb	4	½ in	Reese	**21T082**
	15,000 lb	4	25/32 in	Buyers Products	**6ZAP2**
90,000 lb	18,000 lb	6	25/32 in	Buyers Products	**6ZAN9**
	16,000 lb	4	25/32 in	Buyers Products	**6ZAP3**
100,000 lb	20,000 lb	6	25/32 in	Buyers Products	**30PD45**
	20,000 lb	10	13/16 in	Buyers Products	**30PD47**
Receiver Mount					
10,000 lb	2,000 lb	—	21/32 in	Buyers Products	**3KXX6**
Swivel Mount					
30,000 lb	6,000 lb	5	9/16 in	Buyers Products	**30PD50**
	6,000 lb	6	17/32 in	Buyers Products	**30PD54**
50,000 lb	6,000 lb	5	9/16 in	Buyers Products	**30PD46**
	6,000 lb	6	17/32 in	Buyers Products	**30PD52**
60,000 lb	12,000 lb	2	25/32 in	Buyers Products	**30PD48**
100,000 lb	20,000 lb	4	15/16 in	Buyers Products	**30PD41**

Gross Trailer Weight Capacity	Tongue Weight	No. of Mounting Holes	Mounting Hole Diameter	Brand	Item No.
Air Compensated Pintle Hooks					
Bolt On					
90,000 lb	18,000 lb	4	25/32 in	Buyers Products	**6ZAN6**
	18,000 lb	4	25/32 in	Buyers Products	**6ZAN7**
	18,000 lb	6	25/32 in	Buyers Products	**6ZAN8**
100,000 lb	20,000 lb	10	13/16 in	Buyers Products	**30PD44**
	20,000 lb	6	25/32 in	Buyers Products	**30PD51**

Gross Vehicle Weight Capacity	Tongue Weight	Plate Size	No. of Mounting Holes	Hole Diameter	Overall Length	Brand	Item No.
Pintle Hook Mounting Plate							
2" Compatible Hitch Size							
12,000 lb	1,000 lb	7 ½ in x 5 in	8	½ in	7 ¾ in	Reese	**2PU10**
10,000 lb	2,000 lb	12 ½ in x 5 in	6	17/32 in	14 ½ in	Buyers Products	**30PD63**
	2,000 lb	12 ½ in x 5 in	6	17/32 in	12 ¼ in	Buyers Products	**30PD67**
13,000 lb	2,600 lb	7 ¼ in x 5 in	3	17/32 in	10 ¼ in	Buyers Products	**30PD73**
15,000 lb	2,800 lb	5 ¾ in x 5 in	2	17/32 in	10 ¼ in	Buyers Products	**30PD74**
20,000 lb	4,000 lb	3 ¾ in x 5 in	1	17/32 in	9 in	Buyers Products	**30PD78**
14,000 lb	2,000 lb	7 ¼ in x 5 in	3	17/32 in	9 in	Buyers Products	**30PD79**
	2,800 lb	8 in x 5 in	3	¾ in	9 in	Buyers Products	**426U51**
10,000 lb	2,000 lb	12 ½ in x 5 in	6	17/32 in	12 ¼ in	Buyers Products	**426U52**
2½" Compatible Hitch Size							
18,000 lb	2,000 lb	7 ¼ in x 5 in	8	½ in	8 ½ in	Reese	**21T075**
12,000 lb	1,200 lb	6 in x 5 in	6	½ in	7 ¾ in	Reese	**21T076**
16,000 lb	3,200 lb	6 ¼ in x 5 in	2	17/32 in	12 in	Buyers Products	**30PD68**
3" Compatible Hitch Size							
25,000 lb	4,000 lb	9 in x 5 in	10	½ in	9 in	Reese	**21T077**

Description	Includes	Brand	Item No.
Hitch Accessories			
Pintle Hook Mounting Hardware Kits			
Pintle/Combination Hitch Mounting Kit, For BH10 and PH20 Series Hitches	(4) ½ in Heavy Lock Washers, (4) 9/16 in Grade 8 Hex Nuts, (4) 9/16 in x 2 ½ in Grade 8 Cap Screws	Buyers Products	**426T91**
Pintle/Combination Hitch Mounting Kit, For BH8, PH5, PH8, and PH15 Series Hitches	(4) ½ in Flat Washers, (4) ½ in Grade 8 Hex Nuts, (4) ½ in Heavy Lock Washers, (4) ½ in x 2 in Grade 8 Cap Screws	Buyers Products	**426T90**
Pintle Hook Mounting Hardware Kit	(4) Bolts, (4) Nuts, (4) Washers, Replacement Mounting Hardware	Reese	**20PV20**
Pintle Hook Mounting Kit, For PH30 and PH45 Series Hitches	(4) ¾ in Grade 8 Hex Nuts, (4) ¾ in Heavy Lock Washers, (4) ¾ in x 3 ½ in Grade 8 Cap Screws	Buyers Products	**426T92**
Replacement Pintle Balls			
Replacement Pintle Ball, 2 5/16 in Ball	—	Reese	**2ZPU8**

Buyers REESE™

3VUJ4

48XW76

6ZAR8

Lunette Rings

Rings attach to pintle hooks providing a secure connection to tow vehicles. Creates a flexible two-part pintle hitch - the pintle hook can swivel on the lunette ring to allow movement and turning during towing.

Gross Towing Weight Capacity	Ring Inside Diameter	Distance Between Mounting Holes	Material	Finish	Brand	Item No.
Lunette Rings						
Adjustable Lunette Ring						
12,000 lb	3 in	2 in	Iron	Unfinished	Buyers Products	**3VUJ4**
14,000 lb	3 in	2 in	Iron	Unfinished	Buyers Products	**48XW73**
20,000 lb	3 in	2 in	Steel	Unfinished	Buyers Products	**48XW74**
24,000 lb	3 in	4 ½ in	Steel	Primed	Reese	**6ZAR7**
Bolt-On Lunette Ring						
60,000 lb	3 in	4 ½ in	Steel	Powder Coated	Buyers Products	**3YCA9**
42,000 lb	2 ½ in	4 ½ in	Steel	Powder Coated	Buyers Products	**48XW75**
90,000 lb	3 in	4 ½ in	Steel	Powder Coated	Buyers Products	**48XW76**
Threaded Shank Lunette Ring						
15,000 lb	2 ½ in	Not Applicable	Steel	Primed	Reese	**6ZAR8**

Description	Brand	Item No.
Lunette Accessories		
Hardware Kits		
3-Position Channel	Buyers Products	**426U37**
5-Position Channel With Gussets	Buyers Products	**426U36**
Channels		
5-Position Heavy-Duty Channel With Gussets	Buyers Products	**426U41**
Heavy Duty 3 and 5 Position Channels	Buyers Products	**426U50**

2PJ92

20PM43

2PJ94

REESE™ Buyers Master Lock®

21T079

Hitch Pins & Clips

Pin Diameter	Usable Length	Compatible Hitch Size	Includes	Finish	Brand	Item No.
Pin and Clip						
½ in	2¼"	1 ¼ in	Pin and Clip	Bright Zinc	Reese	**2PJ92**
	2¼"	1 ¼ in	Swivel Latch	Bright Zinc	Reese	**2PJ95**
	3 3/16"	1 ¼ in	Cotter Pin	Zinc Plated	Buyers Products	**426U11**
	3 3/16"	1 ¼ in	Cotter Pin	Zinc Plated	Buyers Products	**426U17**
	4"	1 ¼ in	Cotter Pin	Zinc Plated	Buyers Products	**6ZAK9**
	4¼"	1 ¼ in	Cotter Pin	Zinc Plated	Buyers Products	**426V18**
½ in, ⅝ in	3"	2 in	Sleeve, Swivel Latch	Bright Zinc	Reese	**20PM43**
	3"	1 ¼ in, 2 in	Clip	Bright Zinc	Reese	**2PJ93**
⅝ in	3"	2 in	Clip	Bright Zinc	Reese	**20PM39**
	3"	2 in	Groove pin	Bright Zinc	Reese	**2PJ91**
	3"	2 in	Swivel Latch	Bright Zinc	Reese	**2PJ94**
	3"	2 in	—	Stainless Steel	Master Lock	**2ZU72**
	3½"	2 in, 2 ½ in	Clip	Bright Zinc	Reese	**20PM36**
	3½"	2 in, 2 ½ in	Groove pin	Bright Zinc	Reese	**6ZAT5**
	4"	2 in	Cotter Pin	Zinc Plated	Buyers Products	**426U14**
	4"	2 in	Spring Clip	Zinc Plated	Buyers Products	**426U15**
	4"	2 in	Cotter Pin, Poly Coated Handle	Zinc Plated	Buyers Products	**6ZAL0**
	4¼"	2 in	Cotter Pin	Zinc Plated	Buyers Products	**426V28**
	4½"	2 ½ in	Cotter Pin	Zinc Plated	Buyers Products	**426U10**
	5"	2 in	Cotter Pin	Zinc Plated	Buyers Products	**55MX19**
	6¼"	2 in	Cotter Pin	Zinc Plated	Buyers Products	**426V22**
¾ in	6"	3 in	Lanyard	Powder Coat	Reese	**21T079**
Vinyl Coated Grip Clip						
Hitch Pin Clips, Fits both ½ in and ⅝ in Grooved Pins (Pkg. of 3)					Reese	**2ZPU5**

2PJ83 1XUC7

REESE™

Trailer Hitch Balls

Select the appropriate ball according to the gross load weight required, the hole diameter on the ball mount, the trailer coupler size, and the ball mount platform thickness.

Gross Vehicle Weight Capacity	Shank Diameter	Shank Length	Ball Type	Finish	Item No.
1 ⅞ in Ball Diameter					
I Vehicle Class					
2,000 lb	¾ in	1 ½ in	Standard	Chrome	**2PJ83**
	¾ in	2 ½ in	Standard	Chrome	**2PJ86**
2 in Ball Diameter					
II Vehicle Class					
3,500 lb	¾ in	2 ⅜ in	Standard	Chrome	**2PJ87**
V Vehicle Class					
6,000 lb	1 in	2 in	Interlock	Stainless Steel	**20PM53**
	1 in	3 ¼ in	Standard	Chrome	**1XUC6**
8,000 lb	1 ¼ in	2 ¾ in	Standard	Chrome	**21T099**
	1 in	2 in	Interlock	Chrome	**444G99**
2 5/16 in Ball Diameter					
III Vehicle Class					
6,000 lb	1 in	2 in	Interlock	Chrome	**21T183**
IV Vehicle Class					
10,000 lb	1 ¼ in	2 ⅛ in	Standard	Chrome	**2PJ90**
V Vehicle Class					
12,000 lb	1 ¼ in	2 ¾ in	Interlock	Chrome	**3CZP3**
14,000 lb	1 ¼ in	2 ¾ in	Standard	Chrome	**3CZP4**
17,000 lb	1 ¼ in	2 ¾ in	Standard	Chrome	**3CZP5**
1 ⅞ in, 2 in, 2 5/16 in Ball Diameter					
V Vehicle Class					
8,000 lb	1 in	2 ⅜ in	Interchangeable	Chrome	**1XUC7**
Accessories					
Hitch Ball Wrench, Fits 1 ⅛ in and 1 ½ in					**1XUC8**

Buyers PRODUCTS COMPANY

Trailer Safety Chains

Safety Chains connect tow vehicle and trailer to ensure safety if the trailer becomes detached from the tow vehicle.

Quick Link 426U76 Slip Hook 426U65

Overall Length	Working Load Break Strength	Hook Width	Material	Finish	Item No.
Slip Hook					
2 ft	10,000 lb	1 19/64 in	Carbon Steel	Zinc Plated	**426U71**
3 ½ ft	15,000 lb	2 in	Carbon Steel	Zinc Plated	**426U68**
3 ft	10,000 lb	2 in	Carbon Steel	Zinc Plated	**426U65**
3 ft	15,000 lb	2 in	Carbon Steel	Zinc Plated	**426U66**
Quick Link					
3 ft	5,000 lb	1 19/64 in	Carbon Steel	Zinc Plated	**426U76**
4 ft	5,000 lb	1 19/64 in	Carbon Steel	Zinc Plated	**426U70**

REESE™ Master Lock California Immobilizer Buyers PRODUCTS COMPANY

Trailer/Truck Security Devices

Receiver Locks—Attach to trailer hitch receivers to prevent theft. Bent pin style have lock mounted on a bent pin. Dogbone and barbell style have a straight pin.

Coupler Locks—Attach to trailer coupler to prevent theft whether trailer is attached or unattached to tow vehicle.

King Pin Locks— Keep fifth wheel trailers secure and prevent theft. Locks fit over the king pin.

Lunette Ring Lock—Provides security for trailers that have lunette rings. Separate padlock is required.

Pintle Lock—Solid steel plate covers the pintle ring and eliminates access to the hitch without a key.

2ZU73

2ZU74

6ZAT7

2ZPU3

1YCE7

20PT85

6ZAR3

3KJN3

39C437

3UU67

Lock Type	Size	Finish	Includes	Features	Brand	Item No.
Receiver Lock						
For Use With 1 ¼ in and 2 in Receivers						
Bent Pin	½ in, ⅝ in	Chrome	(2) Keys, Dust Cover, ½ in Pin, ⅝ in Pin	Push Button Lock Mechanism, Knurled Barrell Lock Finish	Reese	**1XUB7**
Bent Pin	½ in, ⅝ in	Stainless Steel	(2) Keys, Dust Cover, ½ in Pin, ⅝ in Pin	Push to Lock Mechanism	Master Lock	**2ZU73**
For Use With 2 in Receivers						
Barbell	⅝ in	Stainless Steel	(2) Keys, Rubber Dust Cover	Push to Lock Mechanism	Master Lock	**2ZU74**
Bent Pin	⅝ in	Chrome	(2) Keys, Vinyl Lock Cover	Push to Lock Mechanism	Reese	**1XUB8**
Bent Pin	⅝ in	Chrome	(2) Keys, Rubber Dust Cover	Key Design Eliminates Lock Picking	Reese	**45C165**
Dogbone	⅝ in	Stainless Steel	(2) Keys, Rubber Dust Cover	Ball Bearing Lock Prevents Theft if Lock is Broken, Key Design Eliminates Lock Picking	Reese	**21T177**
For Use With 2 in and 2 ½ in Receivers						
Barbell	⅝ in	Stainless Steel	(2) Keys, Rubber Dust Cover	Push-Button Lock Mechanism	Master Lock	**453T30**
For Use With 2 ½ in Receivers						
Bent Pin	⅝ in	Chrome	(2) Keys, Rubber Cap	Push-Button Lock Mechanism	Reese	**6ZAT7**
Dogbone	⅝ in	Chrome	(2) Keys, Rubber Cap	Push-Button Lock Mechanism	Reese	**6ZAT6**
Receiver and Coupler Lock Set						
For Use With 1 ¼ in and 2 in Receivers						
Bent Pin	½ in, ⅝ in	Brass	(2) Keys, ½ in Pin, ⅝ in Pin, Coupler Lock, Universal Storing Coupler Lock	All Locks Keyed Alike	Reese	**2ZPU3**
Bent Pin	½ in, ⅝ in	Stainless Steel	(2) Keys, ½ in Pin, ⅝ in Pin, Coupler Lock, Universal Storing Coupler Lock	Keyed Alike, Push to Lock Locking Mechanism, Weather Tough Seal and Water Tight Cap	Master Lock	**1YCE7**
For Use With 2 in Receivers						
Dogbone	⅝ in	Chrome	(2) Keys, Rubber Dust Cover	Ball Bearing Lock Prevents Theft if Lock is Broken, Key Design Eliminates Lock Picking	Reese	**21T176**
Coupler Lock						
For Use With Most Couplers						
Universal	¼ in	Stainless Steel	(2) Keys	Six Locking Positions From 9/16 in to 2 ¾ in	Master Lock	**2ZU76**
Universal	¼ in	Brass	(2) Keys	¾ in Span	Reese	**20PT85**
Universal	¼ in	Brushed Nickel	(2) Keys	Adjustable Length from ⅝ to 3 in	Reese	**21T101**
Trailer Storing	—	Powder Coated Yellow	(2) Keys	Ratchet Design with 6 Locking Positions	Reese	**1XUC3**
Trailer Storing	—	Powder Coated Yellow	(2) Keys	¾ in with Raised Lip	California Immobilizer	**39C434**
Trailer Storing	—	Powder Coated Red	(2) Keys	Universal Stowage Coupler Lock	Master Lock	**453T31**
Trailer Storing	—	Powder Coated Yellow	(2) Keys	Universal Stowage Coupler Lock	Reese	**6ZAR3**
For Use With 2 in and 2 5/16 in Couplers						
Trailer Storing	—	Powder Coated Yellow	(2) Keys	Solid Steel Wrap Around Construction	California Immobilizer	**39C435**
King Pin Lock						
For Use With King Pin						
King Pin Lock	2 15/16 in	Powder Coated	(2) Keyed Alike,Tie Strap, Yellow Flag	Open Base Bell Shape Keeps Lock From Jamming or Wedging	Jendyk	**3KJN1**
King Pin Lock	2 15/16 in	Powder Coated	(2) Keyed Differently,Tie Strap, Yellow Flag	Open Base Bell Shape Keeps Lock From Jamming or Wedging	Jendyk	**3KJL8**
King Pin Lock	2 15/16 in	Powder Coated	(2) Keyed Alike,Tie Strap, Yellow Flag	Closed Base Bell Shape Keeps Lock From Jamming or Wedging	Jendyk	**3KJN5**
King Pin Lock	2 15/16 in	Powder Coated	(2) Keyed Differently,Tie Strap, Yellow Flag	Closed Base Bell Shape Keeps Lock From Jamming or Wedging	Jendyk	**3KJN3**
King Pin Lock	3in	Powder Coated Red	(2) Keys	Renders Bolt Cutters Useless	Master Lock	**3UU67**
King Pin Lock	—	Zinc Plated	(2) Keys, Lock	Quick and Easy to Use	Buyers Products	**6ZAN5**
Lunette Ring Lock						
For Use With 2 ½ in to 3 in Lunette Ring						
Lunette Ring Lock	—	Zinc	—	Separate padlock required.	Reese	**6ZAR6**
Pintle Lock Ring						
For Use With 5 in Dia. Pintle Ring						
Pintle Lock Ring	3 in	Powder Coated Black	(2) Keys	Push Lock Mechanism	California Immobilizer	**39C437**

Trailer Couplers

Straight-Tongue—Bolt onto trailer tongues for towing. Attach to hitch balls and lock with latches for security.

A-Frame—Couplers are welded onto A-shaped tongues and have latches for secure hookups and disconnections. Commonly used when trailers or campers will be jack supported.

Adjustable—Attach to hitch balls with cam locking pins. Height can be adjusted to ensure proper trailer level for towing.

Gooseneck—Have a self-centering lock plate that fits over hitch balls to engage tow vehicles. Locking handles are accessible from any angle and height can be easily adjusted.

Gross Towing Weight Capacity	Compatible Ball Diameter	Finish	Overall Length	Brand	Item No.
Straight-Tongue					
Class I					
2,000 lb	1 ⅞ in	Zinc Coated	9 ¼ in	Bulldog	**20PN21**
2,000 lb	1 ⅞ in	Zinc Coated	9 ¼ in	Bulldog	**20PN24**
2,000 lb	1 ⅞ in	Primer	9 ⅜ in	Buyers Products	**426U24**
2,000 lb	1 ⅞ in	Zinc Plated	11 ¼ in	Buyers Products	**426U29**
2,000 lb	1 ⅞ in	Zinc Plated	12 ¼ in	Buyers Products	**426U30**
2,000 lb	1 ⅞ in	Primer	10 ⅝ in	Buyers Products	**426U31**
Class II					
3,500 lb	2 in	Zinc Coated	10 ¾ in	Reese	**20PN22**
3,500 lb	2 in	Zinc Coated	10 ¾ in	Reese	**20PN23**
3,500 lb	2 in	Primer	13 ⅛ in	Buyers Products	**426U21**
3,500 lb	2 in	Primer	11 ¼ in	Buyers Products	**426U22**
3,500 lb	2 in	Primer	14 in	Buyers Products	**426U23**
3,500 lb	2 in	Primer	12 in	Buyers Products	**426U25**
3,500 lb	2 in	Zinc Plated	12 ¼ in	Buyers Products	**426U28**
Class III					
5,000 lb	2 in	Primer	16 ¼ in	Bulldog	**20PN11**
5,000 lb	2 in	Primer	10 ¾ in	Bulldog	**20PN13**
5,000 lb	2 in	Primer	16 ¼ in	Bulldog	**20PN14**
Class IV					
7,000 lb	2 in	Primer	16 ¼ in	Bulldog	**20PN17**
12,500 lb	2 5⁄16 in	Primer	16 ½ in	Bulldog	**20PN19**
15,000 lb	2 5⁄16 in	Zinc Plated	17 ½ in	Buyers Products	**426U43**
A-Frame					
Class III					
5,000 lb	2 in	Primer	16 in	Bulldog	**20PN12**
5,000 lb	2 in	Primer	16 in	Bulldog	**20PN15**
5,000 lb	2 in	Primer	14 ¼ in	Buyers Products	**426U26**
5,000 lb	2 in	Primer	14 in	Fulton	**5W232**
Class IV					
7,000 lb	2 in	Primer	16 in	Bulldog	**20PN09**
10,000 lb	2 5⁄16 in	Primer	15 ⅛ in	Buyers Products	**426U27**
12,500 lb	2 5⁄16 in	Primer	16 ½ in	Bulldog	**20PN20**
Class V					
15,000 lb	2 5⁄16 in	Powder Coated	18 ⅛ in	Buyers Products	**426U32**
Adjustable					
Class IV					
7,000 lb	2 in	Primer	9 ½ in	Bulldog	**20PN07**
10,000 lb	2 in	Unfinished	11 in	Buyers Products	**426U40**
10,000 lb	2 in	Unfinished	13 in	Buyers Products	**426U47**
10,000 lb	2 in	Unfinished	9 ⅝ in	Buyers Products	**426U48**
12,500 lb	2 5⁄16 in	Primer	10 in	Bulldog	**20PN08**
14,000 lb	2 5⁄16 in	Primer	9 ½ in	Bulldog	**21T086**
25,000 lb	2 5⁄16 in	Primer	9 in	Bulldog	**21T085**
Class V					
15,000 lb	2 5⁄16 in	Unfinished	10 ⅜ in	Buyers Products	**426U35**
15,000 lb	2 5⁄16 in	Unfinished	13 ⅛ in	Buyers Products	**426U39**
15,000 lb	2 5⁄16 in	Unfinished	9 ⅝ in	Buyers Products	**426U44**
18,000 lb	2 5⁄16 in	Unfinished	6 ⅞ in	Buyers Products	**426U42**
Gooseneck					
Class IV					
24,000 lb	2 5⁄16 in	Oiled to Be Welded	7 ½ in	Bulldog	**21T089**
25,000 lb	2 5⁄16 in	Primer	9 in	Bulldog	**20PN27**
25,000 lb	2 5⁄16 in	Primer	8 in	Bulldog	**21T087**

Trailer Jacks

Description	Lifting Capacity	Lift Range	Retracted Length	Overall Height	Adjustment Range	Base Type	Brand	Item No.
Topwind Trailer Jacks								
A-Frame Mount								
Fixed	5,000 lb	15 in	10 5⁄16 in	22 ½ in	15 in	No Base	Bulldog	**5MGR0**
Bolt On								
Retaining Ring Swivel	1,000 lb	10 in	10 in	18 ½ in	9 ½ in	Round Foot Plate	Reese	**6ZAT0**
Tubular Swivel	2,000 lb	10 in	11 in	17 ½ in	10 in	No Base	Reese	**20PR67**
Weld On								
Fixed	5,000 lb	15 in	22 11⁄16 in	25 ¼ in	28 ¾ in	Drop Leg	Bulldog	**5MGR4**
	7,200 lb	10 in	18 3⁄16 in	22 in	20 ⅛ in	Detachable Footplate	Reese	**20PR68**
Retaining Ring Swivel	2,000 lb	10 in	11 in	17 in	10 in	Detachable Footplate	Bulldog	**5W027**
	5,000 lb	10 in	11 ¼ in	17 in	10 in	Footplate	Reese	**20PR83**
Tubular Swivel	2,000 lb	10 in	11 in	16 ¼ in	10 in	Footplate with Tubular Swivel	Bulldog	**2PU11**
	2,000 lb	10 in	14 ½ in	26 ¼ in	15 in	Footplate with Tubular Swivel	Bulldog	**2ZPR3**
	5,000 lb	10 in	11 3⁄16 in	17 ¾ in	10 in	Detachable Footplate	Bulldog	**2ZPR4**
	5,000 lb	15 in	14 11⁄16 in	28 ½ in	15 in	Detachable Footplate	Bulldog	**9KEZ8**
	5,000 lb	10 in	14 11⁄16 in	29 ¾ in	15 in	Footplate	Bulldog	**5W028**
Sidewind Trailer Jacks								
A-Frame Mount								
Fixed	2,000 lb	13 in	8 ⅝ in	22 ¼ in	13 in	No Base	Bulldog	**5W025**
Bolt On								
Fixed	2,500 lb	15 in	7 in	29 ¾ in	28 ½ in	Detachable Footplate	Reese	**20PV09**
	5,000 lb	28 ½ in	6 ½ in	28 ¼ in	28 ½ in	Detachable Footplate	Reese	**20PV05**
Retaining Ring Swivel	1,000 lb	10 ½ in	12 ¾ in	23 ½ in	10 in	6 in Poly Wheel	Reese	**6ZAR9**
	1,200 lb	10 in	12 ½ in	21 ½ in	10 in	6 in Poly Wheel	Fulton	**5W023**
	1,500 lb	10 in	13 in	23 ½ in	10 in	8 in Poly Wheel	Fulton	**2PU13**
	1,500 lb	12 in	13 ⅛ in	26 ½ in	12 in	6 in Dual Wheel	Reese	**20PV04**
	1,500 lb	12 in	13 in	25 ½ in	12 in	8 in Spoked Wheel	Reese	**20PV03**
	1,600 lb	10 in	26 ½ in	29 in	10 in	8 in Poly Wheel	Fulton	**20PV07**
	1,600 lb	10 in	12 ¼ in	28 3⁄16 in	10 in	7 in Poly Dual Wheel	Fulton	**444G79**
Weld On								
Fixed	5,000 lb	28 ½ in	25 ⅛ in	25 ¼ in	28 ½ in	Drop Leg	Bulldog	**2PU12**
	10,000 lb	12 ⅗ in	27 ⅜ in	28 in	25 ⅞ in	Adjustable Footplate	Reese	**20PR69**
Retaining Ring Swivel	2,000 lb	10 in	11 in	18 in	10 in	Detachable Footplate	Bulldog	**5MGR2**
	2,000 lb	15 in	14 ½ in	26 ¼ in	15 in	Detachable Footplate	Bulldog	**5MGR1**
Tubular Swivel	2,000 lb	15 in	14 ½ in	17 ½ in	15 in	Detachable Footplate	Bulldog	**8PMZ9**
	3,000 lb	15 in	15 ⅛ in	24 ¾ in	15 in	Detachable Footplate	Reese	**20PR66**
	5,000 lb	10 in	10 ⅜ in	17 in	10 in	Detachable Footplate	Bulldog	**8DDF6**
	7,000 lb	15 in	16 in	22 ½ in	15 in	Detachable Footplate	Bulldog	**8ZG51**
	—	—	11 ¼ in	—	—	Footplate	Bulldog	**8CTZ0**
Powered Jack								
A-Frame Mount								
Fixed	3,500 lb	24 in	12 in	33 in	24 in	Drop Leg	Buyers Products	**426U20**
	4,000 lb	8 in to 14 in	8 in	33 in	22 in	Drop Leg	Bulldog	**48UX97**
Jack Accessories								
Base Plate Kit							Bulldog	**2ZPT4**
Jack Accessories							Reese	**20PR78**
Jack Crank Handle							Bulldog	**6ZAT2**
Jack Handle Kit							Reese	**20PR72**
Jack Handle Replacement							Bulldog	**2ZPR6**
Pin And Chain Kit							Bulldog	**2ZPT3**
Wheel Ring Dock Chock							Reese	**2ZPU2**

Trailer Electrical Adapters

440A84

Vehicle Connection	Trailer Connection	Includes	Item No.
Trailer Wiring Adapters			
Hopkins Towing Solutions			
6-Way Round	4-Way Flat	Dust Cover	**440C07**
7-Way Blade	4-Way Flat, 6-Way Pin	Dust Cover	**440A99**
7-Way Blade	6-Way Round	Dust Cover	**440A86**
7-Way Blade	4-Way Flat	Dust Cover	**440A82**
7-Way Blade	4-Way Flat	Dust Cover	**440A90**
7-Way Blade	6-Way Round	Dust Cover	**440A93**
7-Way Blade	5-Way Flat	Dust Cover	**440A95**
7-Way Round	4-Way Flat	Dust Cover	**440A84**
IPA			
7-Way Blade	4-Way Flat, 5-Way Flat, 6-Way Round	Dust Cover	**18M476**
Reese			
4-Way Flat	4-Way Flat, 7-Way Blade	4-Flat Dust Cover and Heavy Duty Spring on 7-Way Connector, Mounting Bracket, Mounting hardware	**21T093**
7-Way Blade	7-Way Blade	Pass Through Instant Backup Alarm	**2ZPX1**
7-Way Blade	4-Way Flat, 5-Way Flat	LED Circuit Tester	**21T096**
7-Way Blade	5-Way Flat	6 ft Full Extension Coil Cable	**21T092**
7-Way Blade	4-Way Flat	7.5 ft Full Extension Heavy Duty Coil Cable	**2ZPX6**
7-Way Blade	4-Way Flat	LED Circuit Tester	**21T094**
7-Way Pin	6-Way Pin	Installation Instructions	**444H23**
Trailer Wiring Accessories			
Grote			
Coiled ABS Power Cord, 15 ft.			**2VPV8**

2ZPX1 21T092 5JJK8 21T096 21T094 49ZT64

Vehicle Connection	Trailer Connection	Includes	Item No.
Reese			
Circuit Protected Power Converter and Wiring Kit			**48UX96**
Trailer Wire, 4-Way Flat, 16 ga, 25 ft.			**5JJK8**
Towing Electrical Connectors			
Hopkins Towing Solutions			
2 Pole, 16 ga, Flat Connectors, 12 in			**440A78**

Item	Used For	Operating Range	Type	Includes	Brand	Item No.
Tester Kits						
Trailer Light Tester Kit	Diagnostics	6 to 24V DC	Scan Tool	Battery Charger	IPA	**49ZT65**
Trailer Tester	Diagnostics	6 to 24V DC	Scan Tool	(3) Way Trailer Adapter, Battery Charger	IPA	**49ZT64**
Trailer Tester, Smart MUTT(R) (7 Round Pin)	Trailer Light And ABS	20A @ 12V DC	7 Round Pin	3 Button Remote Control, 5 ft 7-Way Cable, 500mA Battery Charger, Chassis Ground Cable, External Battery Connector	IPA	**48PY47**
Trailer Tester, Super MUTT(R) Deluxe	Air Brake, and ABS, Trailer Light	20A @ 12V DC	7 Round Pin	(2) 3 Button Remote Controls, 10A Battery Charger, 12 Button Remote Control, 5 ft 7-Way Cable, 8 ft Glad Hands, and Rain Cover, Chassis Ground Cable, External Battery Connector, Face/Battery Shield	IPA	**48PY49**

Trailer Accessories

Description	Item No.
B/A Products Co.	
Grab Hook, Weld-On, ⅜" Chain	**3YFX3**
Buyers Products	
D-Ring, ½" dia., 1¹⁄₁₆ in Forged Weld-on Mounting Bracket	**30PD33**
D-Ring, ½" dia., 1 Hole Bolt-On Bracket	**30PD32**
D-Ring, ½" dia., 2-Hole Bracket	**30PD30**
D-Ring, ½" dia., 2-Hole Mounting Bracket	**30PD31**
D-Ring, ¼ in dia., ¼ in Holes, Provides Sturdy Holding Power for Tools and Equipment	**426T66**
D-Ring, ¼ in dia., Base 2³⁄₁₆ in L x 1¼ in W, Hole ¼ in dia, Provides Sturdy Holding Power for Tools and Equipment, Ring 1¹¹⁄₁₆ in H x 1½ in W	**426T64**
D-Ring, ¾" dia., With ⅜ in Weld On Mounting Bracket	**30PD40**
D-Ring, ⅝" dia., ⅜ in Thick Forged Bracket Welded on a ¼ in Steel Plate	**30PD35**
D-Ring, ⅝ in dia., Extended Size, Forged	**426T63**
D-Ring, 1" dia., With ⅜ in Mounting Bracket	**30PD39**
EZ Gate™ Tailgate Assist	**19A780**
Lashing Ring, 1 in dia., Curved, Weld-On Mounting Bracket	**3VUJ3**
Rope Ring, ¼ in dia., ⅜ in Mounting Hole, Provides Sturdy Holding Power for Tools and Equipment	**426U82**
Rope Ring, ¼ in dia., Provides Sturdy Holding Power for Tools and Equipment	**426U77**

30PD32 30PD35 3ULU4 30PD33 30PD31 19A780

Description	Item No.
Rope Ring, ⅜ in dia., Heavy Duty, Provides Sturdy Holding Power for Tools and Equipment	**426U79**
Rope Ring, ⅜ in dia., Provides Sturdy Holding Power for Tools and Equipment	**426U83**
Rope Ring, 1 ³¹⁄₃₂ in dia., Corrosion Resistance	**426U80**
Spring Latch Assembly with Handle, 4½"L	**3ULU4**
Reese	
Fold-Away Hinge Kit, Bolt On, 5,000 lbs. Capacity, 3 in x 3 in	**20PT95**
Trailer Hitch Alignment System	**20PM28**

Transportation Regulatory Compliance Materials

Item	No. of Plies	With Carbon/ Carbonless	Format	Size	Mfr. Model	Item No.	Pkg. Qty.
Bus							
Bus Driver Vehicle Inspection Report	2	Carbonless	Book, 31 Sets	5½ x 8⅛ in	1928	**52VP12**	1
Bus, Cargo Tank, Concrete Vehicle, Motor Coach, Tanker, Tractor, Trailer, Truck, Van							
Annual Vehicle Inspection Form	2	Carbonless	Continuous, w/Decal	9½ x 11 in	4024613	**52HM40**	10
Annual Vehicle Inspection Report/Label	3	With Carbon	Continuous, w/Decal	8½ x 11¾ in	471	**52VP01**	1
Annual Vehicle Inspection Report/Label	3	Carbonless	Continuous, w/Decal	8½ x 11¾ in	15048	**52VP02**	1
FMCSA Periodic Inspection Label	1	Carbonless	Label	5 x 5 in	4911	**52VR20**	10
Medical Examination Certificate	—	No	Preprinted Form	—	47379	**52VP84**	1
Vehicle Inspection Decal	2	Carbonless	Vinyl Label	5 x 4 in	1279	**52VR12**	10
Vehicle Inspection Decal	1	Carbonless	Aluminum Label	6 x 3½ in	1340	**52VR13**	10
Vehicle Inspection Report	2	Carbonless	Snap-Out	8½ x 11¾ in	3127	**52VR18**	10
Vehicle Inspection Report	3	Carbonless	Snap-Out	8½ x 11¾ in	3128	**52VR19**	10
Tractor, Trailer, Truck							
Bilingual Drivers Logbook	2	With Carbon	Book, English/Spanish	5½ x 8½ in	8581	**52VP46**	1
Detail Drivers Daily Logbook	2	Carbonless	Book	8½ x 11 in	8545	**38D331**	1
Detail Drivers Daily Logbook	2	Carbonless	Book, Without Recap	8½ x 11 in	8530	**38D329**	1
Detailed Driver Logbook	2	With Carbon	Book, w/DVIR	8½ x 5½ in	8525	**38D319**	1
Detailed Driver Logbook	2	With Carbon	Book, Simplified Recap	8½ x 5½ in	8532	**38D323**	1
Detailed Drivers Logbook	2	With Carbon	Loose Leaf	8½ x 5¹⁷⁄₃₂ in	8524	**52VR22**	31
Detailed Vehicle Inspection Report	2	Carbonless	Book, 31 Sets	8½ x 11 in	11724	**52VP15**	1
Driver Logbook	2	With Carbon	Book, Without Recap/DVIR	8½ x 5½ in	8533	**38D320**	1
Drivers Exemption Log	2	Carbonless	Book, Without DVIR	8½ x 5½ in	8531	**38D332**	1
Drivers Logbook	2	Carbonless	Book, Without DVIR	8-1/2x 5½ in	8526	**38D328**	1
Driver Vehicle Inspection Form	2	With Carbon	Book, 31 Sets	5½ x 8½ in	685	**38D295**	1
Driver Vehicle Inspection Form	3	With Carbon	Book, 31 Sets	5½ x 8½ in	723	**38D296**	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½ in	1854	**38D297**	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½ in	8253	**38D299**	1
Driver Vehicle Inspection Form	3	Carbonless	Book, 31 Sheets	5½ x 8½ in	1862	**38D298**	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8⅛ in	2048	**38D304**	1
Driver Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5⅔ x 8½ in	2046	**38D303**	1
Driver Vehicle Inspection Form	3	Carbonless	Book, 31 Sets	5⅔ x 8½ in	1999	**38D301**	1
Simplified Driver Logbook	2	With Carbon	Book, w/DVIR	8½ x 5½ in	8527	**38D318**	1
Simplified Vehicle Inspection Form	2	Carbonless	Book, 31 Sets	5½ x 8½ in	9528	**52VP16**	1

J. J. Keller & Associates, Inc.® Since 1953

38D328

38D297

19YK73

Includes	Mfr. Model	Item No.
Accident Report Kit		
Vinyl Pouch, Poly Clipboard, Single-Use 35mm Film Camera, English/Spanish Use Instructions Printed on Camera Jacket, Insulated Wrapper for Camera, Yellow Tire Marker, Pen, Drivers Report at Accident Scene Form, Witness Cards, Accident Notification Card, Exoneration Cards, Post-Accident Testing Regulations Form	5754	**19YK73**
Federal Motor Carrier Safety Regulations Pocketbook		
Parts 40, 380, 382, 383, 387, 390-397, 399 and Appendix G of the FMCSRs	347	**38D333**

2ZJK2

2FAC9

450X99

5EVZ6

21DJ21

51EP23

Gladhands

Gladhands are color-coded to denote which lines are connected, with red signifying emergency brake lines, blue indicating service air lines, and black used interchangeably.

Port Size	Body Material	Mount Angle	Includes Shut Off	Emergency Gladhands (Red) Seal Material	Emergency Gladhands (Red) Item No.	Service Gladhands (Blue) Seal Material	Service Gladhands (Blue) Item No.	Universal Gladhands (Black) Seal Material	Universal Gladhands (Black) Item No.
Gladhands									
Tramec Sloan									
⅜ in x ¼ in	Steel	Straight	Yes	Rubber	**2ZJL1**	—	—	—	—
⅜ in	Steel	Straight	Yes	—	—	Rubber	**2ZJL2**	—	—
½ in	Cast-Iron	Straight	No	Polyurethane	**2ZJL5**	Polyurethane	**2ZJL4**	Rubber	**2ZJL3**
½ in	Steel	Straight	No	Polyurethane	**2ZJK2**	Polyurethane	**2ZJK8**	Rubber	**2ZJK9**
Velvac									
⅜ in	Aluminum	90°	Yes	Polyurethane	**2FAC3**	Polyurethane	**2CTT9**	—	—
⅜ in	Aluminum	37°	No	Polyurethane	**35NL36**	Polyurethane	**35NL37**	—	—
⅜ in	Aluminum	45°	No	Rubber	**35NL39**	Rubber	**35NL40**	—	—
⅜ in	Aluminum	37°	No	—	—	Rubber	**35NL34**	—	—
½ in	Aluminum	37°	No	Rubber	**2CTT5**	—	—	—	—
½ in	Aluminum	90°	No	—	—	Polyurethane	**35NL35**	—	—
½ in	Aluminum	90°	No	Polyurethane	**35NL38**	Rubber	**2CTT6**	Rubber	**2CTT4**

Color	Includes Screen	Brand	Item No.	Pkg. Qty.
Polyurethane Gladhand Seals				
Closed Face				
Black	Yes	Velvac	**5DYV7**	4
Blue	Yes	Velvac	**5DYV6**	4
Red	Yes	Velvac	**5DYV8**	4
Full Face				
Black	No	Velvac	**2CTT1**	10
	No	Velvac	**2FAD1**	25
	No	Velvac	**5DYV5**	200
Blue	No	Velvac	**2CTT3**	10
	No	Velvac	**2FAC9**	25
	No	Velvac	**5DYV4**	200
Red	No	Velvac	**2CTT2**	10
	No	Velvac	**2FAC8**	25
	No	Velvac	**5DYV3**	200
Buna-N Gladhand Seals				
Closed Face				
Black	Yes	Velvac	**2FAC7**	2
Full Face				
Black	No	Velvac	**2FAC5**	50
Gladhand Accessories				
Silver	Yes	Velvac	**2FAC6**	2

Item	Brand	Item No.
Gladhand Locks		
Gladhand Lock, Keyed Alike, Aluminum	Jendyk	**450X99**
Gladhand Lock, Keyed Alike, Polyethylene	—	**5ZVP3**
	Jendyk	**3KJL6**
Gladhand Lock, Not Keyed Alike, Aluminum	Jendyk	**450Y01**
Gladhand Lock, Not Keyed Alike, Polyethylene	—	**5MGM0**
	Jendyk	**3KJL4**
Glad-Lock™ Assembly, Keyed Alike, Polyethylene	Velvac	**2FAD3**
Gladhand Accessories		
Air Brake Antifreeze and Conditioner 1 gal	CRC	**5EVZ7**
Air Brake Antifreeze and Conditioner 32 oz	CRC	**5EVZ6**
Dummy Gladhand Fitting	Tramec Sloan	**2ZJL6**
Dummy Shut-off Coupling	Velvac	**21DH57**
GladhandL® Aluminum Gladhand Grips	Velvac	**21DH20**
Gland Nut Wrench, Adjustable	OTC	**2TVT3**
Non-Vented Dummy Coupling	Velvac	**2FAD5**
Pogo Stick, Chromed Steel, 25 In	Velvac	**21DJ95**
Pogo Stick, Chromed Steel, 41 In	Velvac	**21DJ96**
Pogo Stick, Plated Steel, 25 In	Velvac	**21DJ92**
Pogo Stick, Plated Steel, 41 In	Velvac	**21DJ93**
Pogo Stick, Plated Steel, 51 In	Velvac	**21DJ94**
Pogo Stick, SS, 40 In, with Snubber Chain	Velvac	**21DJ21**
Pogo Stick, SS, 41 In, Holder and Chain	Velvac	**21DJ22**
Replacement Tracker Bar Kits 20" Spring Length	Velvac	**5DYW1**
Tire Inflator Kit , 0 to 300 psi, Size ⅜"	General Power Industrial Co.	**52YG21**
Tire Inflator Kit , 10 to 160 psi, Size ⅜"	Milton	**51EP23**
Vented Dummy Coupling	Velvac	**2FAD4**

90° Swivel Male Elbow 11K674

Union 11G333

Brass Air Brake Connectors

Compression fittings come standard with preapplied thread sealant.

Item	Tube Size	Pipe Size	Item No.
Push to Connect			
Bulkhead Union Tube x Tube	⅜ in	—	**11K704**
	½ in	—	**11K705**
Male Connector Tube x MNPT	⅜ in	⅛ in	**11K655**
	⅜ in	¼ in	**11K656**
	½ in	¼ in	**11K659**
	⅜ in	⅜ in	**11K657**
	½ in	⅜ in	**11K660**
	⅝ in	⅜ in	**11K662**
	⅜ in	½ in	**11K658**
	½ in	½ in	**11K661**
	⅝ in	½ in	**11K663**
Male Elbow,90 Degrees Swivel Tube x MNPT	¼ in	⅛ in	**11K674**
	¼ in	¼ in	**11K675**
	⅜ in	¼ in	**11K678**
	½ in	¼ in	**11K681**
	⅜ in	⅜ in	**11K679**
	½ in	½ in	**11K683**
	⅝ in	½ in	**11K685**

Item	Tube Size	Pipe Size	Item No.
Union Tube x Tube	⅜ in	—	**11K689**
Union Tee Tube x Tube x Tube	¼ in	—	**11K693**
DOT Fitting			
Male Elbow,90 Degrees	¼ in	—	**16W562**
	⅜ in	—	**16W564**
	½ in	—	**16W568**
Straight Union	¼ in	—	**16W604**
	⅜ in	—	**16W605**
	½ in	—	**16W606**
	⅝ in	—	**16W607**
Union Tee	¼ in	—	**16W612**
	⅜ in	—	**16W613**
Compression			
Male Connector Tube x MNPT	¼ in	⅛ in	**11G261**
	¼ in	¼ in	**11G262**
	⅜ in	¼ in	**11G265**
	¼ in	⅜ in	**11G263**
	⅜ in	⅜ in	**11G266**
	½ in	⅜ in	**11G269**
Male Elbow,90 Degrees Tube x MNPT	¼ in	⅛ in	**11G287**
	⅜ in	⅛ in	**11G290**
	¼ in	¼ in	**11G288**
	⅜ in	¼ in	**11G291**
	⅜ in	⅜ in	**11G292**
	½ in	⅜ in	**11G295**
	⅝ in	½ in	**11G298**
Nut Thread	⅜ in	—	**11K642**
Sleeve Tube	¼ in	—	**11G352**
	⅜ in	—	**11G353**
	½ in	—	**11G354**
Union Tube x Tube	¼ in	—	**11G333**
	⅜ in	—	**11G334**
	½ in	—	**11G335**
	⅝ in	—	**11G336**
Union Tee Tube x Tube x Tube	¼ in	—	**11G343**
Through Type Insert Tube	¼ in	—	**11K646**
	⅜ in	—	**11K647**
	½ in	—	**11K648**
	¾ in	—	**11K650**

2ZJW4

Air Brake Tubing

Colors help quickly identify lines.

Outside Dia.	Color	L	Material	Item No.
Type A - Nonreinforced				
Parker				
⅛ in	Black	100 ft	Nylon	**6UTG5**
5⁄32 in	Black	100 ft	Nylon	**6UTG3**
¼ in	Black	100 ft	Nylon	**6UTH5**
¼ in	Black	1,000 ft	Nylon	**6YAA9**
¼ in	Black	250 ft	Nylon	**6YAC0**
¼ in	Blue	250 ft	Nylon	**6YAC2**
¼ in	Green	250 ft	Nylon	**6YAC5**
¼ in	Red	250 ft	Nylon	**6YAD0**
¼ in	Red	1,000 ft	Nylon	**6YAC9**
¼ in	Yellow	250 ft	Nylon	**6YAD4**
Type A - Nonreinforced				
Eaton Synflex				
¼ in	Black	1,000 ft	Solstice	**35Z896**
¼ in	Black	100 ft	Solstice	**35Z897**
¼ in	Blue	100 ft	Solstice	**35Z906**
5⁄16 in	Black	100 ft	Polyamide	**2ZJV5**

Outside Dia.	Color	L	Material	Item No.
Type B - Reinforced				
Parker				
⅜ in	Black	100 ft	Nylon	**6YAD5**
⅜ in	Black	250 ft	Nylon	**6YAD7**
½ in	Black	100 ft	Nylon	**6YAF2**
Type B - Reinforced				
Eaton Synflex				
⅜ in	Black	100 ft	Polyamide/ Polyester	**2ZJW4**
⅜ in	Blue	100 ft	Polyamide/ Polyester	**2ZJX5**
⅜ in	Red	100 ft	Polyamide/ Polyester	**2ZJW6**
½ in	Black	100 ft	Polyamide/ Polyester	**2ZJX7**
Type B - Reinforced, 1⁄16 in ID, 1⁄16 in Wall Thickness				
Parker				
½ in	Blue	100 ft	Nylon	**6YAF4**

Strap Length	Breaking Strength	Marking Type	No. of Digits	Brand	Pkg. Qty.	Body Color: Blue Marking Color	Blue Item No.	Green Marking Color	Green Item No.	Red Marking Color	Red Item No.	Yellow Marking Color	Yellow Item No.
Plastic Pull-Tight Seals													
Marking Parameters: Consecutive Numbering													
4 ⅜ in	24 lb	Laser Marked	7	ELC Security Products	250	Blue	**49AH47**	Green	**49AH48**	Red	**49AH50**	Yellow	**49AH51**
4 25/32 in	46 lb	Hot Stamped	7	ELC Security Products	250	Black	**49AH18**	Black	**49AH19**	Black	**49AH21**	Black	**49AH22**
7 9/64 in	24 lb	Laser Marked	7	ELC Security Products	250	Blue	**49AH52**	Green	**49AH53**	Red	**49AH55**	Yellow	**49AH56**
7 47/64 in	46 lb	Hot Stamped	7	ELC Security Products	250	Black	**49AH13**	Black	**49AH14**	Black	**49AH16**	Black	**49AH17**
Marking Parameters: Consecutive Numbering, SEALED													
4 ½ in	15 lb	Laser Marked	7	TydenBrooks	100	White	**52AZ82**	—	—	White	**52AZ80**	—	—
9 in	14 lb	Laser Marked	17	Brady	100	—	—	Green	**15Y783**	Red	**15Y785**	Yellow	**15Y790**
12 in	32 lb	Laser Marked	15	Oneseal USA	1000	Black	**48HP03**	—	—	Black	**48HP04**	Black	**48HP06**
12 in	40 lb	Hot Stamped	24	TydenBrooks	50	White	**2YJT2**	White	**2YJT3**	White	**2YJT1**	Black	**2YJT4**
12 in	40 lb	Hot Stamped	24	TydenBrooks	50	White	**407J67**	White	**407J68**	White	**407J66**	Black	**407J69**
12 in	50 lb	Hot Stamped	13	Universeal	100	White	**55NA55**	White	**55NA56**	White	**55NA58**	White	**55NA59**
13 in	90 lb	Hot Stamped	13	Universeal	100	White	**55NA71**	—	—	White	**55NA72**	—	—
15 in	55 lb	Laser Marked	15	Oneseal USA	1000	White	**48HP01**	—	—	White	**48HN99**	—	—
18 in	40 lb	Hot Stamped	24	TydenBrooks	50	White	**2YJU7**	White	**2YJU8**	White	**2YJU6**	—	—
18 in	50 lb	Hot Stamped	13	Universeal	100	White	**55NA60**	White	**55NA61**	White	**55NA62**	White	**55NA64**
Marking Parameters: Consecutive Numbering & Barcode													
7 47/64 in	46 lb	Laser Marked	7	ELC Security Products	250	Black	**49AH23**	Black	**49AH24**	Black	**49AH25**	Black	**49AH26**
Marking Parameters: Consecutive Numbering & Barcode, SEALED													
16 in	115 lb	Laser Marked	15	Oneseal USA	1000	—	—	White	**48HP07**	—	—	White	**48HP08**
Plastic Tearaway Pull-Tight Seals													
Marking Parameters: Consecutive Numbering													
4 ⅜ in	37 lb	Hot Stamped	7	ELC Security Products	250	Black	**49AH35**	Black	**49AH36**	Black	**49AH37**	Black	**49AH38**
4 25/32 in	37 lb	Laser Marked	7	ELC Security Products	250	Blue	**49AH43**	Green	**49AH44**	Red	**49AH45**	Yellow	**49AH46**
7 23/64 in	40 lb	Laser Marked	7	ELC Security Products	250	Blue	**49AH39**	Green	**49AH40**	Red	**49AH41**	Yellow	**49AH42**
8 in	44 lb	Hot Stamped	7	ELC Security Products	250	Black	**49AH31**	Black	**49AH32**	Black	**49AH33**	Black	**49AH34**
Marking Parameters: Consecutive Numbering, SEALED													
5 in	6 lb	Hot Stamped	20	TydenBrooks	100	White	**39R478**	White	**39R480**	White	**39R479**	—	—
8 in	18 lb	Hot Stamped	13	Universeal	100	White	**55NA65**	White	**55NA66**	White	**55NA68**	White	**55NA70**
Marking Parameters: Consecutive Numbering & Barcode													
8 in	44 lb	Laser Marked	7	ELC Security Products	250	Black	**49AH27**	Black	**49AH28**	Black	**49AH29**	Black	**49AH30**

ELC Security Products
TydenBrooks SECURITY PRODUCTS GROUP
BRADY
ONESEAL
Universeal

Plastic Pull-Tight 2YJT4

Pull-Tight Seals

Pull-tight seals are adjustable-length single-use security seals that wrap around handles and latches in shipping containers, trailers, cargo holds, and trucks and snap closed. **Plastic pull-tight seals** can be removed with light tools or by using heavy force. **Plastic tearaway pull-tight seals** don't require a light tool or heavy force to remove.

Strap Length	Strap Width	Breaking Strength	Marking Type	No. of Digits	Brand	Pkg. Qty.	Body Color: Blue Item No.	Green Item No.	Red Item No.	Yellow Item No.
Plastic Tearaway Strap Seals										
Marking Parameters: Consecutive Numbering										
7 ½ in	⅜ in	75 lb	Hot Stamped	7	ELC Security Products	250	**49AH62**	**49AH63**	**49AH64**	**49AH65**
Plastic Strap Seals										
Marking Parameters: Consecutive Numbering, SEALED										
6 in	⅜ in	50 lb	Laser Marked	16	Universeal	50	—	**48RA87**	**48RA85**	**48RA88**
7 ½ in	¼ in	45 lb	Laser Marked	13	Brady	100	**15Y787**	—	**15Y788**	**15Y789**
7 ½ in	¼ in	60 lb	Hot Stamped	17	TydenBrooks	100	**4WKL1**	**4WKL2**	**4WKK9**	**4WKL3**
Marking Parameters: Consecutive Numbering										
8 in	¼ in	60 lb	Laser Marked	15	Oneseal USA	1000	**48HN93**	**48HN98**	**48HN94**	**48HN96**

Strap Length	Strap Width	Breaking Strength	Body Color	Marking Type	No. of Digits	Brand	Item No.	Pkg. Qty.
Metal Strap Seals								
Marking Parameters: Consecutive Numbering								
8 ⅜ in	5/16 in	100 lb	Silver	Embossed	15	TydenBrooks	**2YJZ7**	50
8 27/64 in	⅝ in	110 lb	Silver	Laser Marked	17	TydenBrooks	**2YJZ8**	50
8 in	¼ in	90 lb	Silver	Hot Stamped	15	Oneseal USA	**48HP13**	1000
8 in	¼ in	155 lb	Silver	Hot Stamped	15	Oneseal USA	**48HP12**	1000
8 ⅜ in	5/16 in	100 lb	Silver	Laser Marked	15	TydenBrooks	**6GHZ2**	1000
Marking Parameters: Consecutive Numbering, SEALED								
8 ½ in	¼ in	125 lb	Silver	Laser Marked	13	Brady	**15Y786**	100

ELC Security Products
Universeal
BRADY
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ONESEAL

Plastic Tearaway 49AH62

Strap Seals

Seals are fixed-length single-use security seals that wrap around handles and latches in shipping containers, trailers, cargo holds, and trucks and snap closed in one locking position. **Plastic tearaway strap seals** don't require a light tool or heavy force to remove. **Plastic strap seals** can be removed with light tools or by using heavy force. **Metal strap seals** are stronger and more durable than plastic seals, so they provide a higher level of protection and can be removed with light tools.

Cable Material	Cable Length	Cable Diameter	Breaking Strength	No. of Digits	Brand	Pkg. Qty.	Body Color: Black Item No.	Blue Item No.	Green Item No.	Orange Item No.	Red Item No.	White Item No.	Yellow Item No.
C-TPAT Compliant High Security													
Marking Parameters: Consecutive Numbering, SEALED													
Aluminum	12 in	⅛ in	2,400 lb	3	TydenBrooks	200	**407J93**	—	**407J94**	—	—	—	—
Aluminum	12 in	13/64 in	3,000 lb	7	TydenBrooks	200	—	**4WKL9**	—	—	**4WKL8**	—	—
Steel	12 in	⅛ in	2,250 lb	15	Oneseal USA	500	—	**48HN87**	**48HN88**	—	**48HN86**	—	—
Steel	24 in	⅛ in	2,250 lb	15	Oneseal USA	500	—	**48HP19**	—	—	**48HP18**	—	—
Zinc	12 in	1/16 in	750 lb	12	TydenBrooks	100	—	**407J77**	—	**407J80**	**407J78**	**407J76**	**407J79**
Zinc	12 in	1/16 in	750 lb	12	TydenBrooks	250	—	—	—	**39R474**	—	**39R473**	—
Zinc	12 in	3/32 in	750 lb	12	TydenBrooks	100	—	**407J87**	—	**407J90**	**407J88**	**407J86**	**407J89**
Zinc	12 in	⅛ in	750 lb	6	TydenBrooks	100	—	**407J82**	—	**407J85**	**407J83**	**407J81**	**407J84**
Marking Parameters: Consecutive Numbering & Barcode, SEALED													
Steel	12 in	⅛ in	2,630 lb	16	Universeal	50	—	**45LH54**	—	—	**45LH53**	—	—
Steel	12 in	⅛ in	2,360 lb	16	Universeal	50	—	**48RC21**	—	—	**48RC19**	—	—
Steel	12 in	3/16 in	4,496 lb	16	Universeal	50	—	**45LH56**	—	—	**45LH55**	—	—
Steel	48 in	3/16 in	4,496 lb	16	Universeal	20	—	**48RC24**	—	—	**48RC23**	—	—
High Security													
Marking Parameters: Consecutive Numbering, SEALED													
Aluminum	12 in	1/16 in	727 lb	7	TydenBrooks	200	—	**4WKL5**	—	—	—	—	—
Aluminum	12 in	1/16 in	727 lb	3	TydenBrooks	200	**407J91**	—	**407J92**	—	—	—	—
Steel	12 in	1/16 in	727 lb	7	TydenBrooks	200	—	—	—	—	**4WKL4**	—	—
Marking Parameters: Consecutive Numbering & Barcode, SEALED													
Steel	12 in	1/16 in	719 lb	16	Universeal	50	—	**45LH52**	—	—	**45LH51**	—	—
Steel	12 in	1/16 in	719 lb	16	Universeal	50	—	**48RC13**	—	—	**48RC11**	—	—
Steel	12 in	1/16 in	380 lb	16	Universeal	50	—	—	—	—	—	**48RC07**	**48RC09**
Steel	12 in	3/32 in	1,322 lb	16	Universeal	50	—	**48RC17**	—	—	**48RC15**	—	—

C-TPAT Compliant High Security 407J93

TydenBrooks SECURITY PRODUCTS GROUP
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High Security 48RC09

Cable Seals

Seals can be set to any length and locked in position, so they can provide a better fit than fixed-length cable locks. Requires a tool to remove it, and when it's cut, it splits into individual strands that can't be resealed

Bolt Diameter	Bolt Clearance	Bolt Length	Breaking Strength	No. of Digits	Brand	Pkg. Qty.	Body Color: Blue Item No.	Red Item No.	White Item No.	Yellow Item No.
C-TPAT Compliant High Security										
Marking Parameters: Consecutive Numbering, SEALED										
5/16 in	3 ½ in	3 ½ in	5,477 lb	10	TydenBrooks	250	—	—	**39R485**	—
⅜ in	3 ½ in	3 ½ in	5,477 lb	6	TydenBrooks	100	—	—	—	**52AZ95**
29/64 in	1 ¼ in	1 ¼ in	3,000 lb	8	TydenBrooks	200	**39R488**	**39R486**	—	**39R487**
Marking Parameters: Consecutive Numbering & Barcode, SEALED										
3/16 in	3 ¼ in	3 ¼ in	2,250 lb	9	Oneseal USA	200	**48HN80**	**48HN79**	**48HN81**	—
5/16 in	2 3/16 in	3 9/16 in	4,271 lb	16	Universeal	50	**45LH36**	**45LH35**	—	**45LH34**
5/16 in	2 9/16 in	3 ¼ in	4,271 lb	16	Universeal	50	**45LH46**	**45LH44**	—	**45LH45**
5/16 in	2 9/16 in	3 9/16 in	4,271 lb	16	Universeal	50	**48RC29**	**48RC25**	—	**48RC27**
High Security										
Marking Parameters: Consecutive Numbering, SEALED										
½ in	1 ¼ in	1 ¼ in	3,000 lb	6	TydenBrooks	200	—	—	**407J75**	—
Marking Parameters: Consecutive Numbering & Barcode, SEALED										
3/16 in	3 ¼ in	3 ¼ in	2,250 lb	9	Oneseal USA	200	**48HN84**	—	**48HN82**	**48HN83**

TydenBrooks SECURITY PRODUCTS GROUP
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C-TPAT Compliant High Security 48HN79

High Security 407J75

Bolt Seals

Seals have a bolt that passes through a container or door latch on cargo freight, rail cars, and shipping containers and a cap that snaps on to lock it. Also known as disposable padlocks, these barrier seals require a tool, such as bolt cutter, to remove them.

6MGA9

4LGL4

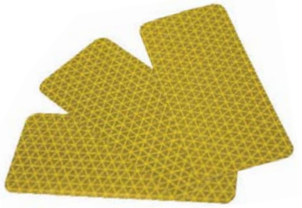
6NGA1

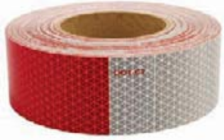
53TY34

2HGY2

45TT04

53TX87


53TY01


6MFY9

Conspicuity Tape

ORALITE®

Item	Reflective Color	W	L	Product Form	Tape Strip Length	Thickness	Std.	Item No.	Pkg. Qty.
Trucks and Trailers									
Reflective Tape	White	2 in	12 in	Strip	—	8 mil	DOT, FMVSS	**45TT05**	1
School Buses									
Reflective Tape	Red, White	4 in	50 yd	Roll	—	8 mil	—	**53TX91**	1
	Yellow	1 in	50 yd	Roll	—	9 mil	FMVSS	**53TY30**	1
	Yellow	1 in	25 ft	Roll	—	8 mil	—	**3ZED4**	1
	Yellow	2 in	50 yd	Roll	—	9 mil	FMVSS	**53TY29**	1
	Yellow	2 in	50 yd	Roll	—	8 mil	ANSI, ASAE S276.7	**6MGA8**	1
	Yellow	2 in	25 ft	Roll	—	8 mil	—	**3ZED8**	1
	Yellow	2 in	50 yd	Roll	—	8 mil	FMVSS	**6MGA9**	1
	Yellow	3 in	25 ft	Roll	—	8 mil	ANSI, ASAE S276.7	**3ZEE3**	1
	Yellow	4 in	18 in	Strip	—	8 mil	FRA224	**45TT09**	1
Rail									
Reflective Tape	White	4 in	50 yd	Roll	—	8 mil	FRA224	**6NGA0**	1
	Yellow	4 in	50 yd	Roll	—	8 mil	FRA224	**6NFZ9**	1
	Yellow	4 in	50 yd	Kiss-Cut Roll	9 in	8 mil	FRA224	**6NGA1**	1
Marine									
Reflective Tape	White	2 in	50 yd	Roll	—	10 mil	USCG G-Sec-393A	**6NGD5**	1
Construction, Emergency Vehicles, Utility									
Reflective Tape	Blue	1 in	50 yd	Roll	—	8 mil	FMVSS	**4LGL4**	1
	Fluorescent Lime	1 in	50 yd	Roll	—	22 mil	—	**53TY17**	1
	Fluorescent Lime	6 in	50 yd	Roll	—	20 mil	NFPA 1901	**6MGC1**	1
	Fluorescent Lime, Red	6 in	50 yd	Roll	—	22 mil	NFPA 1901	**53TY33**	1
	Fluorescent Lime, Red	6 in	50 yd	Roll	—	22 mil	NFPA 1901	**53TY34**	1
	Fluorescent Lime, Red	30 in	50 yd	Roll	—	22 mil	NFPA 1901	**53TY37**	1
	Green	1 in	50 yd	Roll	—	8 mil	FMVSS	**4LGL7**	1
	Red	1 in	50 yd	Roll	—	8 mil	FMVSS	**4LGL8**	1
	Red	3 in	50 yd	Roll	—	8 mil	ASTM D4956	**53TY20**	1
	Red	6 in	50 yd	Roll	—	8 mil	ASTM D4956	**53TY06**	1
	Red	6 in	50 ft	Roll	—	8 mil	NFPA 1901	**6NFZ8**	1
	White	1 in	50 yd	Roll	—	8 mil	DOT, FMVSS	**4LGL9**	1
Construction, Emergency Vehicles, Trucks and Trailers									
Reflective Decal	Blue, Red, White	3 ¾ in	6 ½ in	—	—	8 mil	—	**2HGY2**	1
	Blue, Red, White	7 ¾ in	14 in	—	—	8 mil	—	**2HGY3**	1
Reflective Sticker	Red, White	2 in	18 in	Sticker	18 in	8 mil	DOT, FMVSS, NHTSA	**3XMA3**	1
	Red, White	2 in	18 in	Strip	18 in	8 mil	DOT, FMVSS, NHTSA	**3ZEA4**	1
	Red, White	2 in	25 ft	—	18 in	8 mil	DOT, FMVSS, NHTSA	**3ZEA6**	1
	Red, White	3 in	25 ft	—	18 in	8 mil	DOT, FMVSS, NHTSA	**3ZEC1**	1
	White	2 in	12 in	Sticker	—	8 mil	DOT, FMVSS, NHTSA	**3XMA5**	1
	White	2 in	25 ft	—	—	8 mil	DOT, FMVSS, NHTSA	**3ZEC5**	1
	White	2 in	50 yd	Roll	—	8 mil	DOT, FMVSS, NHTSA	**3ZEC3**	1
	White	3 in	50 yd	—	—	8 mil	DOT, FMVSS, NHTSA	**3ZEC7**	1
	White	3 in	25 ft	—	—	8 mil	DOT, FMVSS, NHTSA	**3ZEC9**	1

Item	Reflective Color	W	L	Product Form	Tape Strip Length	Thickness	Std.	Item No.	Pkg. Qty.
Reflective Tape	Red	2 in	50 yd	Roll	—	8 mil	ASTM D4956, ASTM E1164, ASTM E1347, ASTM E308, ASTM E810	**6NGC8**	1
	Red, White	1 ½ in	50 yd	Roll	—	8 mil	—	**53TY09**	1
	Red, White	1 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ5**	1
	Red, White	2 in	24 in	—	—	8 mil	DOT, FMVSS	**45TT04**	1
	Red, White	2 in	25 ft	Roll	—	8 mil	DOT, FMVSS	**53TX82**	1
	Red, White	2 in	12 in	Strip	—	8 mil	DOT, FMVSS	**53TX87**	1
	Red, White	2 in	50 yd	Roll	—	8 mil	DOT, FMVSS	**53TY24**	1
	Red, White	2 in	18 in	Strip	18 in	8 mil	DOT, FMVSS, NHTSA	**2HGX9**	25
	Red, White	2 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**2HGX8**	1
	Red, White	2 in	50 yd	Roll	12 in	8 mil	DOT, FMVSS, NHTSA	**6MFY9**	1
	Red, White	2 in	50 yd	Roll	12 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ0**	1
	Red, White	2 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**6NGD0**	1
	Red, White	2 in	50 yd	Roll	12 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ2**	1
	Red, White	2 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ6**	1
	Red, White	2 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ7**	1
	Red, White	2 in	50 yd	Roll	18 in	7 mil	DOT, FMVSS, NHTSA	**6MFZ1**	1
	Red, White	2 in	18 in	Strip	—	8 mil	DOT, FMVSS	**45TT03**	1
	Red, White	2 in	12 in	Strip	—	8 mil	DOT, FMVSS	**45TT06**	1
	Red, White	2 in	30 ft	Roll	—	8 mil	DOT, FMVSS	**53TX85**	1
	Red, White	3 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**6MFZ8**	1
	Red, White	3 in	25 ft	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**3XMA9**	1
	Red, White	3 in	50 yd	Roll	18 in	8 mil	DOT, FMVSS, NHTSA	**3XMA7**	1
	White	2 in	12 in	Strip	—	8 mil	DOT, FMVSS	**53TX88**	1
	White	2 in	50 yd	Roll	—	9 mil	DOT, FMVSS	**53TY23**	1
	White	2 in	12 in	Strip	—	8 mil	DOT, FMVSS, NHTSA	**2HGY1**	25
	White	2 in	50 yd	Roll	12 in	8 mil	DOT, FMVSS, NHTSA	**6MGA1**	1
	White	2 in	50 yd	Roll	—	8 mil	ASTM D4956, ASTM E1164, ASTM E1347, ASTM E308, ASTM E810	**6NGC9**	1
	White	2 in	50 yd	Roll	—	8 mil	D4956 Type V	**6NGC6**	1
	Yellow	3 5⁄32 in	3 5⁄32 in	Circle	—	8 mil	ASAE S276.7, ASAE S279.15	**45TR98**	1
Commercial Vehicles, Rail Gate Arms									
Reflective Tape	Red/White Diagonal LH	3 in	50 yd	Roll	16 in	8 mil	—	**6NGD3**	1
Agriculture Vehicles									
Reflective Strip	Red	2 in	9 in	Pack	—	8 mil	ASAE S276.7, ASAE S279.15	**4LGL2**	25
	Yellow	2 in	9 in	Pack	—	8 mil	ASAE S276.7, ASAE S279.15	**4LGL3**	25
Reflective Tape	Red	2 in	9 in	—	—	8 mil	ASAE S276.7	**53TX96**	1
	White	2 in	4 in	—	—	8 mil	D4956 Type V	**45TT02**	1
	Yellow	2 in	9 in	Strip	—	8 mil	ASAE S276.7, ASAE S279.15	**45TR99**	1
	Yellow	2 in	4 ½ in	—	—	8 mil	ASAE S276.7	**53TY01**	1
	Blue	1 in	50 yd	Roll	—	8 mil	ASTM D4956	**53TY19**	1
	Fluorescent Orange	1 in	50 yd	Roll	—	18 mil	ASTM D4956 Type III	**45TT11**	1
	Red	1 in	50 yd	Roll	—	8 mil	ASTM D4956	**53TY11**	1
	White	1 in	50 yd	Roll	—	8 mil	ASTM D4956	**53TY13**	1

Slow Moving Vehicle Emblem

Grote The first name in vehicle safety systems. Condor

Description	Height	Brand	Item No.
Adhesive			
Vinyl	14 in	Condor	**483U17**
Vinyl	13 ¾ in	Rockford Silk Screen Process	**8AEG0**
Screws, Bolts, or Rivets			
Acrylic/ABS Material	13 ¾ in	Grote	**2CXA8**
Aluminum	14 in	Condor	**483U18**
Aluminum	14 in	Rockford Silk Screen Process	**9JXR5**
High Impact ABS	14 in	Deflecto	**8DN62**
Steel	14 in	Condor	**483U19**

483U17

2CXA8

53CU29

Conspicuity Tape

53CU23

4TDX4

4TDV8

5ZG04

53CU27

3M

Reflective Color	W	L	Product Form	Tape Strip Length	Thickness	Std.	Item No.	Pkg. Qty.
Diamond Grade™ Conspicuity Markings Series 983								
Agriculture Vehicles, Emergency Vehicles, Roadwork Vehicles, Trucks and Trailers								
Red	1 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**38XP47**	1
	2 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**4TDT3**	1
	2 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**38XP49**	1
	3 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**38XP45**	1
	4 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**38XP46**	1
	6 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**4TDX6**	1
White	1 in	50 yd	Roll	—	16 mil	NHTSA	**38XP14**	1
	2 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**4TDR1**	1
	2 in	12 in	Roll	—	18 mil	DOT, FMVSS	**4TDR2**	1
	2 in	12 in	Roll	—	18 mil	DOT, NHTSA	**4TDR3**	100
	3 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**4TDR4**	1
	4 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**4TDR5**	1
Buses, Construction, Emergency Vehicles, Rail								
Fluorescent Lime	2 in	12 in	—	12 in	18 mil	NFPA 1901	**53CU30**	10
Fluorescent Yellow	2 in	12 in	—	12 in	18 mil	FRA224	**53CU29**	10
Red	2 in	30 ft	Roll	—	18 mil	DOT, NHTSA	**53CU24**	1
	2 in	9 in	—	9 in	18 mil	DOT, NHTSA	**53CU26**	5
Red, White	2 in	12 in	Strip	—	18 mil	DOT, NHTSA	**45K291**	10
	2 in	30 ft	Roll	—	18 mil	DOT, NHTSA	**53CU13**	1
White	2 in	12 in	—	12 in	14 mil	NHTSA	**53CU17**	5
Yellow	2 in	30 ft	Roll	—	18 mil	ASTM B-117, ASTM D4956, ASTM D523	**53CU23**	1
	2 in	9 in	—	9 in	18 mil	ASTM B-117, ASTM D4956, ASTM D523	**53CU25**	5
Emergency Vehicles								
Fluorescent Lime	4 in	50 yd	Roll	—	16 mil	NHTSA	**38XP28**	1
	6 in	50 yd	Roll	—	18 mil	CAN, ULC S515-13	**4TDX4**	1
Large Vehicle, Trailer, Truck								
Red, White	2 in	24 in	Roll	6 in	18 mil	DOT-C2, FMVSS 108, NHTSA, SAE J1967	**784K63**	1
Locomotives and Rail Cars								
Fluorescent Lime	2 in	50 yd	Roll	—	16 mil	NHTSA	**38XP27**	1
Fluorescent Yellow	4 in	50 yd	Roll	—	18 mil	FRA224	**4TDT6**	1
	4 in	50 yd	Roll	—	16 mil	NHTSA	**38XP26**	1
White	4 in	50 yd	Roll	—	18 mil	FRA224	**4TDU4**	1
Yellow	4 in	50 yd	Roll	—	18 mil	FRA224	**4TDT9**	1
	4 in	50 yd	Kiss-Cut Roll	18 in	18 mil	FRA224	**4TDU1**	1
Marking								
Red, White	2 in	53 ft	Roll	—	16 mil	NHTSA	**38XP50**	1
Yellow	6 in	50 yd	Roll	—	18 mil	NFPA 1901	**4TDX5**	1
School Buses								
Fluorescent Yellow	2 in	50 yd	Roll	—	18 mil	CSA D250, FMVSS	**4TDV5**	1

Reflective Color	W	L	Product Form	Tape Strip Length	Thickness	Std.	Item No.	Pkg. Qty.
Yellow	1 in	50 yd	Roll	—	18 mil	CSA D250, FMVSS	**4TDV9**	1
	2 in	50 yd	Roll	—	18 mil	CSA D250, FMVSS	**4TDV8**	1
	3 in	50 yd	Roll	—	18 mil	CSA D250, FMVSS	**53DU96**	1
	4 in	50 yd	Roll	—	16 mil	NHTSA	**38XP44**	1
	8 ¾ in	37 in	Roll	—	18 mil	CSA D250, FMVSS	**4TDW7**	1
Trucks and Trailers								
Fluorescent Yellow	1 in	50 yd	Roll	—	18 mil	CSA D250, FMVSS	**4TDV4**	1
Red, White	1 in	50 yd	Roll	18 in	16 mil	NHTSA	**38XP38**	1
	2 in	50 yd	Roll	—	18 mil	DOT, NHTSA	**53DU97**	1
	2 in	12 in	—	12 in	16 mil	DOT, ECE 104, NHTSA	**5ZG04**	100
	2 in	50 yd	Roll	12 in	16 mil	DOT, ECE 104, NHTSA	**5ZG03**	1
	2 in	50 yd	Roll	18 in	16 mil	DOT, ECE 104, NHTSA	**5ZG02**	1
	2 in	50 yd	Kiss-Cut Roll	6 in	18 mil	DOT, NHTSA	**4TDT2**	1
	2 in	50 yd	Roll	—	16 mil	NHTSA	**38XP32**	1
	3 in	50 yd	Roll	18 in	18 mil	DOT, NHTSA	**4TDR8**	1
	4 in	50 yd	Roll	18 in	18 mil	DOT, NHTSA	**4TDR9**	1
Diamond Grade™ Fluorescent Work Zone Sheeting Series 3924S								
Buses, Construction, Emergency Vehicles, Rail								
Fluorescent Orange	2 in	12 in	—	12 in	14 mil	ASTM B-117, ASTM D4956, ASTM D523	**53CU31**	10
Reflective Gate Arm Markings GA1616								
Marking								
Red, White	2 in	50 yd	Roll	—	18 mil	ASTM D4956, ASTM E810	**55MN92**	1
	3 in	50 yd	Roll	—	18 mil	ASTM D4956, ASTM E810	**55MN91**	1
	4 in	50 yd	Roll	—	18 mil	ASTM D4956, ASTM E810	**55MN90**	1
Flexible Conspicuity Tape Series 913								
Trucks and Trailers								
Red, White	2 in	50 yd	Roll	12 in	10 mil	DOT	**55MN82**	1
	2 in	50 yd	Roll	18 in	10 mil	DOT	**55MN84**	1
	2 in	50 yd	Roll	18 in	10 mil	DOT	**55MN85**	1
	2 in	50 yd	Roll	18 in	10 mil	DOT	**55MN89**	1
White	2 in	50 yd	Roll	12 in	10 mil	DOT	**55MN87**	1
Engineer Grade Prismatic Reflective Sheeting 3400 Series								
Buses, Construction, Emergency Vehicles, Rail								
Yellow	1 in	6 in	Strip	—	6.8 mil	ASTM D4956	**45J837**	10
Diamond Grade™ Reflectors Series 989								
Amber	3 in	3 in	—	3 in	14 mil	ASTM B-117, ASTM D4956, ASTM D523	**53CU28**	2
Red	3 in	3 in	—	3 in	14 mil	ASTM B-117, ASTM D4956, ASTM D523	**53CU27**	2

20PT62

2VNF3

2VND1

2VNF8

2VND7

Reflectors

Grote The first name in vehicle safety systems. REESE™

Length	Width	Diameter	Material	Mounting	Brand	Red Item No.	Amber Item No.
Mounted Reflectors							
4 9⁄16 in	11⁄32 in	—	Aluminum, Plastic	Armored, Screw Mount	Reese	**20PT63**	**20PT62**
4 3⁄8 in	1⁄4 in	—	Acrylic, Aluminum	Stick-On	—	**—**	**8CL18**
4 11⁄16 in	3⁄4 in	3 5⁄8 in	Steel	Armored, Screw Mount	Grote	**2VNE4**	**2VNE5**
4 11⁄16 in	4 11⁄16 in	3 61⁄64 in	Aluminum	Armored, Screw Mount	Grote	**2VNE6**	**2VNE7**
12 in	11⁄32 in	—	Acrylic, Aluminum	Armored, Screw Mount	—	**8DN61**	**—**
Stick On Reflectors							
2 in	2 in	2 in	Acrylic	Stick-On	Grote	**2VNF3**	**2VNF4**
2 ½ in	2 ½ in	2 ½ in	Acrylic	Stick-On	Grote	**2VND3**	**2VND4**
2 in	2 in	2 in	Acrylic	Stick-On or Screws	Grote	**2VNF5**	**2VNF6**
2 ½ in	2 ½ in	2 ½ in	Acrylic	Stick-On or Screws	Grote	**2VND5**	**2VND6**
3 in	3 in	3 in	Acrylic	Stick-On or Screws	Grote	**2CVL4**	**2CVL5**
3 in	3 in	3 in	Acrylic	Stick-On	Grote	**2VND1**	**2VND2**
3 3⁄16 in	3⁄16 in	3 3⁄16 in	Acrylic	Stick-On	Reese	**20PT17**	**20PT16**
3 3⁄16 in	1⁄4 in	—	Acrylic	Stick-On	Reese	**—**	**20PT58**
3 in	3 in	3 in	Acrylic	Stick-On	Grote	**2VNC8**	**2VNC9**
3 5⁄16 in	3 5⁄16 in	3 ½ in	Acrylic	Stick-On or Screws	Grote	**2CVL8**	**419J27**
3 5⁄16 in	3 5⁄16 in	3 ½ in	Acrylic	Stick-On or Screws	Grote	**2VND9**	**2CVL9**
4 7⁄16 in	1 3⁄16 in	—	Acrylic	Stick-On or Screws	Grote	**2CVL6**	**2CVL7**
4 3⁄8 in	1 7⁄8 in	—	Acrylic	Stick-On	Grote	**2VNF7**	**2VNF8**
4 3⁄8 in	1⁄4 in	—	Acrylic	Stick-On or Screws	Reese	**20PT19**	**20PT18**
4 7⁄16 in	1 3⁄16 in	—	Acrylic	Stick-On or Screws	Grote	**2VND7**	**2VND8**
4 11⁄16 in	3⁄4 in	—	Acrylic	Armored, Screw Mount	Grote	**2CVN1**	**—**
4 11⁄16 in	4 11⁄16 in	3 61⁄64 in	Acrylic	Armored, Screw Mount	Grote	**2CVN2**	**—**
4 3⁄8 in	1 7⁄8 in	—	Acrylic	Stick-On or Screws	Grote	**2CVN3**	**2CVN4**
4 ¼ in	3 13⁄16 in	—	Acrylic	Stick-On	Grote	**—**	**419J25**
4 ¼ in	1 11⁄16 in	—	Acrylic	Stick-On	Grote	**419J26**	**—**
4 21⁄32 in	11⁄32 in	—	Acrylic, Aluminum	Armored, Screw Mount	—	**—**	**9CMV6**

ECCO GOLIGHT Grote The first name in vehicle safety systems. J.W. SPEAKER Maxxima Railhead GEAR

Rectangular Work Lights

49KD93

36E686

2VPG6

45RJ27

36XD87

20HJ60

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24V DC	0.4 A	Pigtail	600 lm	3 ¾ in	2 in	Clear	Polycarbonate	Aluminum	EW2019	**49KD88**
	12 to 24V DC	1.3 A	Pigtail	1,000 lm	4 ⅜ in	2 ⅜ in	Clear	Polycarbonate	Aluminum	EW2411	**49KD93**
	12 to 24V DC	2.7 A	Pigtail	3,000 lm	6 ⅝ in	6 ⅝ in	Clear	Polycarbonate	Aluminum	EW2301	**49KD90**
	12 to 24V DC	3.0 A	Pigtail	2,900 lm	7 in	6 in	Clear	Polycarbonate	Aluminum	EW2501	**406C82**
Spot Light	12 to 24V DC	2.2 A	Pigtail	2,400 lm	7 in	3 in	Clear	Polycarbonate	Aluminum	EW2321	**406C73**
	12 to 24V DC	2.7 A	Pigtail	3,100 lm	6 ⅝ in	6 ⅝ in	Clear	Polycarbonate	Aluminum	EW2300	**49KD89**
	12 to 24V DC	2.2 A	Pigtail	2,400 lm	7 in	3 in	Clear	Polycarbonate	Aluminum	EW2320	**406C72**
Golight											
Flood Light	9 to 32V DC	5.3	Pigtail	6,000 lm	6 in	3 ¾ in	Clear	Polycarbonate	Aluminum	4421	**36E686**
Grote											
Flood Light	12V DC	1.6 A	Hardwired	700 lm	5 ¾ in	3 ⅝ in	Clear	Polycarbonate	Aluminum	63611	**2VPG6**
Spot Light	12 to 24V DC	2.1 A @24V DC	Hardwired	2,100 lm	9 in	6 in	Clear	Polycarbonate	Aluminum	63571	**2VPG2**
	12V DC	1.6 A	Hardwired	700 lm	5 ¾ in	3 ⅝ in	Clear	Polycarbonate	Aluminum	63601	**2VPG5**
Trapezoid Light	12 to 24V DC	2.1 A @24V DC	Hardwired	2,050 lm	9 in	6 in	Clear	Polycarbonate	Aluminum	63591	**2VPG4**
	12V DC	1.6 A	Hardwired	700 lm	5 ¾ in	3 ⅝ in	Clear	Polycarbonate	Aluminum	63621	**2VPG7**
Work Light	12 to 30	15 W	Hardwired	1,200 lm	3 ¾ in	2 ¾ in	—	—	—	BZ551-5	**412A34**
	12	12 W	—	1,100 lm	5 in	5 in	—	—	—	BZ501-5	**412A32**
J.W. Speaker											
Flood Light	12 to 24V DC	1 A	DT04-2P Connector	675 lm	6 ⅛ in	1 ½ in	Clear	Polycarbonate	Polycarbonate	783	**45RJ27**
	12 to 24V DC	1 A	DT04-2P Connector	675 lm	6 ⅛ in	1 ½ in	Clear	Polycarbonate	Polycarbonate	783	**45RJ28**
Maxxima											
Flood Light	12 to 36V DC	0.8 A @36V DC	Pigtail	2,150 lm	6 ¼ in	3 ⅞ in	Clear	Polycarbonate	Aluminum	MWL-57SP	**36XD87**
	12 to 24V DC	280 mA @24V DC	Pigtail	675 lm	5 ⅞ in	3 ¾ in	Clear	Polycarbonate	Polycarbonate	MWL-26-A	**34TG92**
	12 to 24V DC	0.9 A @24V DC	Pigtail	1,200 lm	6 in	5 ⅞ in	Clear	Polycarbonate	Aluminum	MWL-29	**36XD76**
	12 to 36V DC	0.5 A @36V DC	Pigtail	1,550 lm	6 ¼ in	3 ⅞ in	Clear	Polycarbonate	Aluminum	MWL-50SP	**36XD86**
	12 to 24V DC	0.5 A @24V DC	Pigtail	400 lm	6 in	3 ½ in	Clear	Polycarbonate	Aluminum	MWL-04	**8PMH4**
Work Light	12 to 24V DC	0.8 to 0.5 A	Hardwired	2,100 lm	6 in	1 ½ in	Clear	Polycarbonate	Aluminum	MWL-42	**440A17**
	12 to 36V DC	2.8 A	Hardwired	3,000 lm	7 in	2 ¼ in	Clear	Polycarbonate	Aluminum	MWL-58	**446U98**
	12 to 24V DC	0.8 to 0.5 A	Hardwired	1,000 lm	6 in	1 ½ in	Clear	Polycarbonate	Polycarbonate	MWL-39	**440A20**
	12 to 36V DC	1.6 A @36V, 4.5 A @12V	Hardwired	5,000 lm	10 ⅝ in	2 ⁷⁄₁₆ in	Clear	Polycarbonate	Aluminum	MWL-61	**494P45**
Railhead Gear											
Spot Light	9 to 64V DC	1.75 A @12V DC	Hardwired	2,900 lm	6 ¾ in	2 ¾ in	Clear	Polycarbonate	Aluminum	KE-HDWL-30	**20HJ60**
	9 to 64V DC	3.2 A	Hardwired	5,100 lm	8 ½ in	2 ½ in	Clear	Polycarbonate	Aluminum	KE-HDWL-60	**20HJ61**
Halogen											
Grote											
Flood Light	12V DC	4.7 A	Hardwired	—	6 ⅞ in	5 in	Clear	Glass	Nylon	63151-5	**2CWP9**

ECCO Maxxima

Square Work Lights

49KD57

406C05

36XD77

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24V DC	0.7 A	Lighter Plug	750 lm	4 ⅜ in	4 ⅜ in	Clear	Polycarbonate	Aluminum	E92007-MG	**49KD57**
	12 to 24V DC	1.2 A	Pigtail	775 lm	3 ⁵⁄₁₆ in	3 ⁵⁄₁₆ in	Clear	Polycarbonate	Aluminum	EW2471	**49KD96**
	12 to 24V DC	1.3 A	Pigtail	1,200 lm	4 ⅜ in	4 ⅜ in	Clear	Polycarbonate	Aluminum	E92006	**406C04**
	12 to 24V DC	0.7 A	Pigtail	700 lm	4 ⅜ in	4 ⅜ in	Clear	Polycarbonate	Aluminum	E92007	**406C05**
	12 to 24V DC	2 A	Pigtail	2,400 lm	4 ⅜ in	4 ⅜ in	Clear	Polycarbonate	Aluminum	EW2421	**406C74**
	12 to 24V DC	2.6 A	Pigtail	2,000 lm	5 in	3 in	Clear	Polycarbonate	Aluminum	EW2102	**406C67**
Work Light	12 to 24V DC	3.2 A	USB Charger	600 lm	4 ¼ in	4 ⅞ in	Clear	Acrylic	Aluminum	EW2461-NA	**406C81**
	12 to 24V DC	3.2 A	USB Charger	600 lm	4 ¼ in	4 ⅞ in	Clear	Acrylic	Aluminum	EW2461-CAMO	**406C78**
Maxxima											
Flood Light	12 to 24V DC	0.9 A @24V DC	Pigtail	1,200 lm	4 ¾ in	4 ¾ in	Clear	Polycarbonate	Aluminum	MWL-30	**36XD77**
	12 to 24V DC	0.7 A @24V DC	Pigtail	1,000 lm	3 ¼ in	3 ¼ in	Clear	Polycarbonate	Aluminum	MWL-20	**39M957**
	12 to 24V DC	1.2 A @24V DC	Pigtail	2,100 lm	4 ¾ in	4 ¼ in	Clear	Polycarbonate	Aluminum	MWL-43	**440A18**
Work Light	12 to 24V DC	0.8 to 0.5 A	Hardwired	1,000 lm	4 ¾ in	1 ½ in	Clear	Polycarbonate	Polycarbonate	MWL-40	**440A22**
	12 to 24V DC	1 to 0.5 A	Hardwired	675 lm	4 ¾ in	1 ½ in	Clear	Polycarbonate	Polycarbonate	MWL-27-A	**440A23**
	12 to 24V DC	2.5 A	Hardwired	2,900 lm	4 ⅝ in	3 in	Clear	Polycarbonate	Aluminum	MWL-16-A	**55HF16**

ECCO Grote The first name in vehicle safety systems. J.W. SPEAKER Maxxima

LED Light Bars

411Z70

45RJ03

55HF17

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Mfr. Model	Item No.
LED								
Ecco								
Work Light Bar	12 to 24V DC	1.7 A	Hardwired	—	20 in	2 in	EW3120	**55NP89**
	12 to 24V DC	4.3 A	Hardwired	—	25 in	2 ⅝ in	EW3225	**55NP93**
Grote								
Work Light Bar	12 to 24V DC	10.5 A @12V, 5.25 A @24V	Pigtail	8,124 lm	30 in	3 ½ in	64J31	**411Z70**
	12/24	3 A @24 V, 7 A @12 V	Pigtail	5,416 lm	24 in	3 ½ in	64J21	**411Z69**
J.W. Speaker								
Light Bar	—	—	Pigtail	—	22 in	2 ¾ in	9049	**45RJ03**
Maxxima								
Work Light	12.8V DC	3.4 A	2-Pin Connector	3,000 lm	30 in	2 in	MTBL-10-A	**55HF17**

ECCO
Grote
Maxxima

Round Work Lights

49KD97

412A29

13W971

13W973

12D305

54DE27

2CWU2

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Diameter	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED										
Ecco										
Flood Light	12 to 24V DC	0.9 A	Pigtail	675 lm	5 in	Clear	Polycarbonate	Aluminum	E92013	**49KD58**
	12 to 24V DC	1.2 A	Pigtail	800 lm	3 5/16 in	Clear	Polycarbonate	Aluminum	EW2481	**49KD97**
	12 to 24V DC	0.6 A	Pigtail	700 lm	—	Clear	Polycarbonate	Aluminum	E92004	**406C02**
	12 to 80V DC	3.1 A	Pigtail	1,000 lm	—	Clear	Polycarbonate	Aluminum	EW2110	**405Z31**
	12 to 24V DC	1.2 A	Pigtail	950 lm	—	Clear	Polycarbonate	Aluminum	E92005	**406C03**
	12 to 24V DC	3.1 A	Pigtail	2,075 lm	—	Clear	Polycarbonate	Aluminum	EW2431	**406C75**
Grote										
Flood Light	12VDC	.6A	Hardwired	400 lm	5 in	Clear	Polycarbonate	Rubber	63551	**2VPF9**
Spot Light	12 to 36V DC	14 W	Hardwired	1,240 lm	3 ¾ in	Clear	Polycarbonate	Aluminum	BZ111-5	**412A29**
TractorPlus(TM) Light	12 to 24V DC	0.7 A @24V DC	Spade/Screw Terminals	800 lm	4 ⅜ in	Clear	Polycarbonate	Aluminum	63821-5	**13W971**
	12 to 24V DC	0.7 A @24V DC	Pigtail	800 lm	4 ⅜ in	Clear	Polycarbonate	Aluminum	63861-5	**13W973**
Wide Flood Light	12 to 24V DC	0.7 A @24V DC	Pigtail	800 lm	4 ⅜ in	Clear	Polycarbonate	Aluminum	63871-5	**13W974**
Work Light	10 to 48	17.5 W	Pigtail	1,790 lm	3 ¼ in	—	—	—	64G11	**411Z65**
	—	—		800 lm	4 ⅜ in	—	—	—	63831-5	**13W972**
	10 to 48	17.5 W	Pigtail	1,790 lm	3 ¾ in	—	—	—	64E01	**411Z58**
	9 to 32	16 W	Hardwired	1,600 lm	—	—	—	—	BZ101-5	**412A28**
Maxxima										
Flood Light	12 to 24V DC	630 mA @24V DC	Pigtail	750 lm	4 in	Clear	Polycarbonate	Rubber	MWL-11HL	**12D305**
	12 to 24V DC	0.9 A @24V DC	Pigtail	1,200 lm	4 ¾ in	Clear	Polycarbonate	Aluminum	MWL-28	**36XD75**
Work Light	—	—	—	—	—	—	—	—	MWL-12-KIT	**22N693**
	12 to 24V DC	0.4 to 0.3 A	Hardwired	550 lm	4 ⅞ in	Clear	Polycarbonate	Polycarbonate	MWL-19-A	**440A15**
	12V DC	630 mA	Pigtail	300 lm	2 in	Clear	Polycarbonate	Aluminum	MWL-10SP	**12D302**
	12V DC	630 mA	Pigtail	300 lm	2 ¾ in	Clear	Polycarbonate	Aluminum	MWL-10SP-SM	**12D304**
	12V DC	1.24 A	Hardwired	550 lm	5 in	Clear	Polycarbonate	Aluminum	MWL-01LS	**30PE41**
	12 to 24V DC	2.4 to 1.2 A	Hardwired	2,100 lm	4 ¾ in	Clear	Polycarbonate	Powder Coated Aluminum	MWL-41	**440A16**
Work Light w/ On/Off Switch	12 to 36V DC	1.2 A @24V DC	DT04-2P Connector	2,100 lm	5 ¼ in	Clear	Polycarbonate	Aluminum	MWL-36	**54DE27**
Incandescent										
Grote										
Flood Light	12V DC	2.7 A	Hardwired	—	5 in	Clear	Polycarbonate	Rubber	64931	**2CWU2**
	24V DC	1.8 A	Hardwired	—	5 in	Clear	Polycarbonate	Rubber	64921	**2CWT9**

ECCO
J.W. SPEAKER
Maxxima

Oval Work Lights

49KD98

49KD91

49EM13

49CT72

Item	Voltage	Current Drawn	Wiring Connection	Lumens	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED											
Ecco											
Flood Light	12 to 24V DC	1.2 A	Pigtail	725 lm	3 ⅞ in	3 in	Clear	Polycarbonate	Aluminum	EW2491	**49KD98**
	12 to 24V DC	1.9 A	Pigtail	2,050 lm	5 ⅜ in	3 ⅛ in	Clear	Polycarbonate	Aluminum	EW2341	**49KD92**
Spot Light	12 to 24V DC	1.9 A	Pigtail	2,200 lm	5 ⅜ in	3 ⅛ in	Clear	Polycarbonate	Aluminum	EW2340	**49KD91**
J.W. Speaker											
Flood Light	12 to 24V DC	3.2 A @24V DC	Pigtail	5,400 lm	6 ¾ in	3 in	Clear	Polycarbonate	Aluminum	7150	**49EM13**
Work Light	—	1.0 to 0.2A AC	DT04-2P Connector	—	5 11/16 in	3 in	—	Polycarbonate	Polycarbonate	770 BLU	**40CR58**
Maxxima											
Work Light	12 to 36V DC	0.4 A @36V DC	Pigtail	1,000 lm	3 ½ in	3 in	Clear	Polycarbonate	Aluminum	MWL-18-B	**49CT72**

ECCO
J.W. SPEAKER
Railhead Gear

Forklift Lights

49KD86

404M30

54UD06

45TX84

45TX85

Lights are designed to project a blue spot on the floor or ground as a visual warning to pedestrians that mobile equipment is near. They can be installed on the front or back of a forklift, sweeper, or other material handling equipment for safety alerts going forward or backing.

Item	Voltage	Current Drawn	Wiring Connection	Length	Width	Lens Color	Lens Material	Housing Material	Mfr. Model	Item No.
LED										
Ecco										
Forklift Safety Light	—	3.6 A	Pigtail	3 in	3 ¾ in	—	Polycarbonate	Aluminum	ED3777AW	**406C62**
Forklift Spot Light	12V DC	0.6 A	Pigtail	7 in	5 in	—	Polycarbonate	Aluminum	EW2002B	**405Z35**
Pedestrian Arrow Light	12 to 56V DC	0.6 A	Pigtail	4 in	3 ⅝ in	Blue	Polycarbonate	Aluminum	EW2010B	**49KD86**
Pedestrian Boundary Light	—	1.1 A	Pigtail	8 in	6 in	—	Polycarbonate	Aluminum	EW2015R	**405Z34**
J.W. Speaker										
Keep Out Light	12 to 110V DC	1.6 A	Pigtail	6 in	2 ½ in	—	Polycarbonate	Aluminum	793	**404M30**
Safety Light	—	1.20 A 12V DC/0.60 A 24V DC/0.40 A 36V DC/0.30 A 48V DC/0.24 A 60V DC/0.20 A 72V DC	Pigtail	4 7/64 in	2 29/32 in	—	Polycarbonate	Die Cast Aluminum	1403551	**55KH85**
Railhead Gear										
Forklift Arrow Light	9 to 96V DC	0.5 A	Pigtail	3 ¼ in	3 ¾ in	Clear	Polycarbonate	Aluminum	RH-Arrow B	**54UD06**
	9 to 96V DC	0.5 A	Pigtail	3 ¼ in	3 ¾ in	Clear	Polycarbonate	Aluminum	RH-Arrow R	**54UD07**
Forklift Safety Light	—	0.45 A	Pigtail	2 ¾ in	3 ¼ in	—	Polycarbonate	Aluminum	KE-BL1	**45TX84**
	—	0.3 A	Pigtail	5 ½ in	3 ¼ in	Red	Polycarbonate	Aluminum	KE-LTRL-RED	**45TX85**
LED Safety Light	—		Hardwired	3 ¼ in	5 in	—	Polycarbonate	—	KE-LTBL-2	**20HJ55**
Pedestrian Warning Light	10 to 80V DC	0.9 A	Pigtail	6 in	2 ⅜ in	Red	Polycarbonate	Aluminum	KE-RZL1	**54UD08**

468F57

54DE08

411Z76

Rectangular LED Headlights

Headlamps offer LED technology in configurations to suit most on-road vehicles.

Volt Bulb	Current Rating	No. of Bulbs	Lumens	Termination Type	Mounting Type	Color	Fits	L	H	W	D	Brand	Mfr. Model	Item No.
Low Beam 5x7														
12 to 24V	1.94 to 0.16 A	0	975 lm, 1,200 lm	H4		White	Universal	7 ⅞ in	5 19/32 in	7 ⅞ in	—	J.W. Speaker	8900 Evo 2	**468F57**
Low Beam 4x6														
10 to 32V	2.25 A	5	2,830 lm	Pigtail	Recessed	Gray	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¼ in	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE89**
10 to 32V	2.25 A	5	2,830 lm	Pigtail	Recessed	Black	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¼ in	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE93**
12 to 24V	0.6 A	1	400 lm	H4 Pigtail	Surface	Black	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¾ in	3 45/64"	Maxxima	VHL-4X6LO	**54DE08**
9 to 30V	0.61 A	1	630 lm	Automotive H4	Recessed	Clear	Motorcycles, Passenger and Commercial Vehicles	6 ½ in	4 ⅛ in	2 ¾ in	2 7/8"	Grote	94421-5	**411Z76**
High Beam 4x6														
10 to 32V	2.25 A	3	2,250 lm	Pigtail	Recessed	Black	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¼ in	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE94**
10 to 32V	2.25 A	3	2,250 lm	Pigtail	Recessed	Gray	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¼ in	3 27/64"	J.W. Speaker	8800 Evolution 2	**52XE90**
12 to 24V	0.7 A	1	400 lm	H4 Pigtail	Surface	Black	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¾ in	4 13/64"	Maxxima	VHL-4X6HI	**54DE11**
High/Low Beam 5x7														
9 to 32V	2.54 A	1	361 lm, 886 lm	3 Pin H4 Connector	Recessed	Clear	Motorcycles, Passenger and Commercial Vehicles	8 in	5 ½ in	4 in	4 7/32"	Grote	90951-5	**411Z74**
DRL/Low Beam Combo 4x6														
12 to 24V	0.6 A	5	400 lm	H4 Pigtail	Surface	Black	Car, Trailer, Truck, Van	6 ½ in	4 ¼ in	3 ¾ in	4 13/64"	Maxxima	VHL-4X6DRL	**54DE10**
12 to 24V	5.35 to 1.32 A	0	975 lm, 1,200 lm	H4		Black	Universal	7 ⅞ in	5 19/32 in	7 ⅞ in	—	J.W. Speaker	8910 Evo 2	**468F60**

52XE91

52XE96

Heated LED Rectangular Headlights

LED headlights have a thermally conductive grid that deices lenses in response to the ambient temperature, to help improve visibility without requiring action by the driver. Headlights feature improved light output, glare reduction, and light placement to meet the demands of on-road trucking. The tough, die-cast housing offers protection from salt spray for efficient thermal management.

Current Rating	Volt Bulb	No. of Bulbs	Wiring Connection	Mounting	Used For	L	W	D	Chrome Item No.	Black Item No.	White Item No.
Low Beam											
2.25 A	10 to 32V	5	Hardwired	Permanent	Cars, Trucks, Vans	6 ½ in	3 ¼ in	4"	**52XE91**	**52XE95**	—
High Beam											
2.25 A	10 to 32V	3	Hardwired	Permanent	Cars, Trucks, Vans	6 ½ in	3 ¼ in	4"	**52XE92**	**52XE96**	—
Headlight											
5.35 to 1.32 A DC	12 to 24V	0	H4 Connector	Recessed	Cars, Trucks, Vans	7 ⅞ in	7 ⅞ in	—	—	—	**468F59**

2EKW1

2FNC9

2FND8

3EHN9

2EKV8

Replacement Headlights

Trade No.	Voltage	Watts	Average Life	Item No.
Fog Lights				
880	12V AC	27W	300 hr.	**2FMU6**
881	12V AC	27W	300 hr.	**2FMU7**
885	12V AC	50W	200 hr.	**2EKW1**
886	12V AC	50W	200 hr.	**2FMU8**
889	12V AC	27W	300 hr.	**2FMU9**
890	12V AC	27W	300 hr.	**2FMV1**
893	12V AC	37.5W	200 hr.	**2EKW3**
894	12V AC	37.5W	200 hr.	**2FMV3**
896	12V AC	37.5W	200 hr.	**2FMV4**
898	12V AC	37.5W	1900 hr.	**2FMV5**
9008	12/12V AC	55/60W	200/600 hr.	**2FMY5**
9055	12/12V AC	55W	800 hr.	**2FMY8**
9140	12V AC	40W	1200 hr.	**2FMY9**
9145	12V AC	45W	1000 hr.	**2FMZ1**
H2	12.8V AC	55W	255 hr.	**2FNC8**
H3	12V AC	130W	50 hr.	**2FND1**
	12.8V AC	100W	150 hr.	**2FNC9**
	12.8V AC	55W	400 hr.	**2FND2**
	13.5V AC	55W	400 hr.	**2FND3**
	24V AC	84W	400 hr.	**2FND4**
H8	12V AC	35W	350 hr.	**2FND8**

Trade No.	Voltage	Watts	Average Life	Item No.
High/Low Beam				
9003	12V AC	61/67W	150/320 hr.	**2EKW8**
9004	12/12V AC	45/65W	150/320 hr.	**2FMY1**
	12V AC	45/65W	300/640 hr.	**2FNA8**
9007	12/12V AC	55/65W	150/320 hr.	**2FMY4**
	12V AC	55/65W	300/1200 hr.	**3EHN9**
H4	13.2V AC	100W	75/150 hr.	**2FND5**
	13.2V AC	55/60W	150/300 hr.	**2EKX5**
	28V AC	70/75W	150/300 hr.	**2EKX6**
H7	12V AC	55W	250 hr.	**2FND6**
	12V AC	55W	500 hr.	**2FND7**
High Beam				
9005	12V AC	65W	150 hr.	**2FMY2**
	12V AC	65W	320 hr.	**2FNA9**
	12V AC	65W	500 hr.	**3EHN7**
H9	12V AC	65W	200 hr.	**2FND9**
	12V AC	65W	300 hr.	**2FNE1**
Low Beam				
9006	12V AC	55W	200 hr.	**29VJ55**
	12V AC	55W	320 hr.	**2FNB1**
	12V AC	55W	320 hr.	**2FMY3**
H3	12V AC	65W	200 hr.	**2EKX3**
	24V AC	84W	300 hr.	**2FNC5**
H11	12V AC	55W	600 hr.	**2FNC6**
	12V AC	55W	1000 hr.	**2FNC7**
Tractor				
862	12V AC	37.5W	1900 hr.	**2EKV8**

55AV67

55AV68

55AV56

55AV62

52WT49

36E687

Portable Searchlights

GOLIGHT

- Horizontal axis rotation: 370°
- Vertical axis rotation: 135°

Powerful lights are designed to provide intense illumination for automotive, first responder, work truck, marine, military, and outdoor applications. They are UV- and saltwater-resistant. Remote control and mounting options include wireless handheld (H/H) or dash-mount, hardwired dash-mount, and handheld portable wired remote. Mounted searchlights are available with permanent mounting or portable magnetic-mount.

Amps	Watts	Candle Power	Includes	Body Color	H	W	D	Mfr. Model	Item No.
LED									
Wireless Handheld - Remote Controlled									
3.5 A	40 W	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote	White	7.5 in	7.25 in	6 7/10 in	20004GT	**55AV63**
3.5 A	40 W	410,000	15 ft Power Cord with Cigarette Plug, Magnetic Mount Shoe, Wireless Handheld Remote	White	8 in	7.25 in	8 ½ in	79014GT	**55AV67**
3.5 A	40 W	410,000	15 ft Power Cord with Cigarette Plug, Magnetic Mount Shoe, Wireless Handheld Remote	Black	8 in	7.25 in	8 ½ in	79514GT	**55AV68**
3.5 A	40 W	410,000	Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	White	7 in	7.25 in	7 ½ in	30004ST	**55AV70**
3.5 A	40 W	410,000	Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	Black	7 in	7.25 in	7 ½ in	30514ST	**55AV71**
Hardwired - Remote Controlled									
2.8 A	40 W	320,000	Harness and Remote	White	6.5 in	7 in	7 in	30204	**52WT47**
3.5 A	40 W	410,000	20 ft Wiring Harness, Black Rubber Gasket, Hardwired Dash Mount Remote, Mounting Plate Screws, Stainless Steel Mounting Plate	White	7.5 in	7.25 in	6 7/10 in	20204GT	**55AV65**
3.5 A	40 W	410,000	20 ft Wiring Harness, Black Rubber Gasket, Hardwired Dash Mount Remote, Mounting Plate Screws, Stainless Steel Mounting Plate	Black	7.5 in	7.25 in	6 7/10 in	20214GT	**55AV66**
Dual Wireless - Remote Controlled									
3.5 A	40 W	410,000	Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote, Wireless Dash Mount Remote	White	7.5 in	7.25 in	6 7/10 in	20074GT	**55AV64**
Halogen									
Wireless - Remote Controlled									
5.5 A	65 W	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Mounting Gasket, Mounting Plate Screws, Wireless Handheld Remote	White	7.5 in	7.25 in	6 7/10 in	2000GT	**55AV56**
5.5 A	65 W	225,000	15 ft Power Cord with Cigarette Plug, Permanent Mount Shoe, Rockguard, Wireless Handheld Remote	White	8 in	7.25 in	8 ½ in	7900GT	**55AV60**
Wireless Handheld - Remote Controlled									
5.5 A	65 W	225,000	15 ft Power Cord with Cigarette Plug, Magnetic Mount Shoe, Rockguard, Wireless Handheld Remote	White	8 in	7.25 in	8 ½ in	7901GT	**55AV61**
5.5 A	65 W	225,000	15 ft Power Cord with Cigarette Plug, Magnetic Mount Shoe, Rockguard, Wireless Handheld Remote	Black	8 in	7.25 in	8 ½ in	7951GT	**55AV62**
5.5 A	65 W	225,000	Rockguard, Stainless Steel Mounting Plate, Mounting Plate Screws, Wireless Handheld Remote	White	7 in	7.25 in	7 ½ in	3000ST	**55AV69**
Hardwired - Remote Controlled									
5.5 A	65 W	200,000	Harness, Remote, Rockguard	White	6.5 in	7 in	7 in	3020	**52WT46**
5.5 A	65 W	225,000	20 ft Wiring Harness, Black Rubber Gasket, Hardwired Dash Mount Remote, Mounting Plate Screws, Rockguard, Stainless Steel Mounting Plate	White	7.5 in	7.25 in	6 7/10 in	2020GT	**55AV58**
5.5 A	65 W	225,000	20 ft Wiring Harness, Black Rubber Gasket, Hardwired Dash Mount Remote, Mounting Plate Screws, Rockguard, Stainless Steel Mounting Plate	Black	7.5 in	7.25 in	6 7/10 in	2021GT	**55AV59**
Dual Wireless - Remote Controlled									
5.5 A	65 W	225,000	Rockguard, Stainless Steel Mounting Plate, Black Rubber Gasket, Mounting Plate Screws, Wireless Handheld Remote, Wireless Dash Mount Remote	White	7.5 in	7.25 in	6 7/10 in	2007GT	**55AV57**
Accessories									
Wireless Handheld Remote								30100	**52WT49**
LED Retrofit Insert								15444	**36E687**

13W958

45RJ47

22JC93

54DE35

2VPE1

2VPE3

5UVX2

49XE37

Dome Lights

Grote The first name in vehicle safety systems. J.W. SPEAKER Maxxima

Lens Shape	Volt Bulb	Current Rating	Wiring Connection	Lens Color	Includes	Length	Width	Diameter	Mfr. Model	Item No.
LED										
Grote										
Round	12	0.6A	Pigtail	Clear, White	With Shock-Absorbing and Weatherproof Housing	—	¾ in	4 21/64 in	61E41	**13W958**
Rectangular	14 to 30	—	Hardwired	Clear, White	—	5 ¾ in	¾ in	—	61991	**5UVX2**
J.W. Speaker										
Rectangular	12 to 24	0.14A	Molex Connector	White	—	6 ½ in	1 in	—	410	**45RJ47**
Rectangular	12 to 48	0.5A	DT04-2P Connector	White	60 min Timer, Switch	6 ½ in	1 in	—	412	**45RJ51**
Maxxima										
Round	10 to 30	1.4 to 6A	Hardwired	Clear	—	—	1 ¼ in	5 29/32 in	M84435-A	**49XE37**
Round	—	12V	Hardwired	Red, White	On/Off Switch	—	1 in	5 29/32 in	M84434RW	**22JC93**
Round	10 to 30	1.5A	Hardwired	Clear	—	—	1 ¼ in	5 29/32 in	M84434-A	**49XE38**
Round	12.8	0.36A	Pigtail	White	(2) 13 in Wires	—	¾ in	5 ½ in	M84405-C	**52YP18**
Round	12.8	0.56A	Pigtail	White	(2) 13 in Wires	—	¾ in	5 ½ in	M84406-C	**52YP19**
Round	12 to 24	110mA, 160mA	Hardwired	White	Thin Low Profile Design	—	1 ¼ in	5 29/32 in	M84435RW	**54DE35**
Incandescent										
Grote										
Round	12	1.04A	Hardwired	Clear, White	With On/Off Switch	—	1 ½ in	5 7/8 in	61161	**2VPE1**
Rectangular	12	—	Hardwired	Clear, White	3-Way Switch	7 in	1 3/8 in	—	61301	**2VPE3**

49KD51

35ZX11

45RJ16

45A237

18C530

2ZPW2

39F093

Beacon Strobe Lights

ECCO · FEDERAL SIGNAL · J.W. SPEAKER · PSE AMBER · WOLO · REESE · Railhead Gear

Voltage	Current Drawn	Flashes per Minute	Lens Design	Lens Color	Mounting	Includes	Height	Diameter	Std.	Mfr. Model	Item No.
LED											
Ecco											
12/24V DC	2 A	12	Round, Twist-Off	Amber	Permanent	Gasket, Mounting Hardware	4 ¾ in	6 ½ in	California Title 13, CE, IP66, R10, SAE J845 Class I	7160CA	**406A78**
	2 A	12	Round, Twist-Off	Amber	Permanent	Gasket, Mounting Hardware	7 ½ in	6 ½ in	California Title 13, CE, IP66, R10, SAE J845 Class I	7960A	**406A91**
	3.6 A	12	Round, Twist-Off	Amber	Permanent	15 ft Cord with On/Off Switch	9 in	6 ½ in	CE, R10, SAE J845 Class I	7970A-VM	**406A95**
	3.6 A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	8 in	6 ½ in	CE, R10, SAE J845 Class I	7965A	**49KD50**
	3.6 A	12	Round, Twist-Off	Amber	Magnetic	Cig Plug, Magnet Mount	9 in	6 ½ in	CE, R10, SAE Class 1	7965A-VM	**49KD51**
	3.6 A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7 ¾ in	6 ½ in	CE, R10, SAE Class 1	7980A	**49KD53**
	1.3 A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7 ¾ in	6 ½ in	CE, R10, SAE Class II	EB7935A	**49KD61**
	1.3 A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7 ¾ in	6 ½ in	CE, R10, SAE Class II	EB7930A	**49KD62**
12/80V DC	1.9 A	85	Round, Twist-Off	Green	Permanent	Gasket, Mounting Hardware	4 ½ in	5 ⅝ in	CE, R10, SAE J945 Class III	6465G	**406A70**
12 to 24V DC	1.3 A	Variable	Round, Screw On	Amber	High Bond Tape	—	7 ½ in	6 ½ in	CE, R10, SAE CLASS 2	7945A-HBT	**405Z43**
	1.9 A	85	Round, Screw On	Green	Magnetic	15 ft Cord with On/Off Switch	4 in	5 7/64 in	CE, R10, SAE J845 Class III, UL	6465G-MG	**406A71**
	3.6 A	Variable	Round, Screw On	Amber	Permanent	Gasket, Mounting Hardware	7 ½ in	6 ½ in	CE, R10, SAE J845 Class I	7970A	**406A94**
	2 A	Variable	Fresnel, Round, Screw On	Amber	Permanent	Mounting Hardware	4 ¾ in	6 ½ in	California Title 13, CE, IP66, R10, SAE CLASS 1	7160A	**49KD46**
12 to 36V DC	3.6 A	80	Round, Screw On	Amber	Permanent	Gasket, Mounting Hardware	5 in	6 13/32 in	CE, IP67, SAE J845 Class I	7460A	**406A80**
12 to 48V DC	1.3 A	Variable	Round, Screw On	Clear	Permanent	Gasket, Mounting Hardware	9 in	6 ½ in	CE, R10, SAE J845 Class I	7945C	**406A88**
	1.3 A	Variable	Round, Screw On	Amber	Permanent	Gasket, Mounting Hardware	7 ½ in	6 ½ in	CE, R10, SAE J845 Class II	7950A	**406A89**
12 to 80V DC	0.47 A	70	Round, Screw On	Blue	Permanent	Gasket, Mounting Hardware	5 ½ in	2 27/32 in	CE, IP66/67, R10, SAE J845 Class III, UL	6262B	**406A61**
	0.47 A	70	Round, Screw On	Red	Permanent	Gasket, Mounting Hardware	5 ½ in	2 27/32 in	CE, IP66/67, R10, SAE J845 Class III, UL	6262R	**406A64**
	0.47 A	70	Round, Screw On	Amber	Permanent	Gasket, Mounting Hardware	5 ½ in	2 27/32 in	CE, IP66/67, R10, SAE J845 Class III, UL	6263A	**406A65**
	1.9 A	85	Round, Screw On	Blue	Permanent	Gasket, Mounting Hardware	4 ½ in	5 7/64 in	CE, R10, SAE J945 Class III	6465B	**406A66**
	1.9 A	85	Round, Screw On	Clear	Permanent	Gasket, Mounting Hardware	4 ½ in	5 7/64 in	CE, R10, SAE J945 Class III	6465C	**406A68**
	1.9 A	85	Round, Screw On	Red	Permanent	Gasket, Mounting Hardware	4 ½ in	5 7/64 in	CE, R10, SAE J945 Class III	6465R	**406A72**
Federal Signal											
12/24V DC	0.3 A	14	Round, Twist-Off	Amber	Permanent	Installation Guide	4 in	6 ½ in	SAE J845 Class II	212670-02SB	**35ZX11**
	0.3 A	14	Round, Twist-Off	Amber	Magnetic	Installation Guide	4 in	6 ½ in	SAE J845 Class II	212672-02SB	**35ZX12**
	0.5 A	14	Round, Twist-Off	Clear	Magnetic	Installation Guide	3 ½ in	5 in	SAE J845 Class II	220260-05	**35ZX18**
	1.2 A	14	Round, Twist-Off	Amber	Permanent	1 in Pipe Bottom, Pigtail	5 ¼ in	6 ½ in	SAE J1318 & J845 Class 1	252650-02SC	**39F807**
	0.65 A	14	Round, Twist-Off	Amber	Magnetic	Cigarette Plug/Cord, Suction Cup Magnetic Mount	4 in	6 ½ in	SAE J845 Class II	212674-02SB	**45TN90**
	0.74 A	14	Round, Twist-Off	Amber	Magnetic	Cigarette Plug/Cord, Magnetic Mount	6 in	6 ½ in	SAE J845 Class II	212652-02SB	**45TN95**
	0.74 A	14	Round, Twist-Off	Amber	Magnetic	Cigarette Plug/Cord and Tall Dome, Suction Cup Magnetic Mount	6 in	6 ½ in	SAE J845 Class I	212664-02SB	**45TN96**
	1.25 A	14	Round, Twist-Off	Amber	Permanent	Wire Lead	5 ½ in	6 ½ in	SAE J845 Class II	420223-02	**45TP10**
	1.25 A	14	Round, Twist-Off	Amber	Permanent	Branch Guard, Dust Cover, Enclosed Aluminum Base, Wire Lead	5 ½ in	6 ½ in	SAE J845 Class II	420222-02	**45TP11**
J.W. Speaker											
12/80V DC	0.35 A	Variable	Round	Amber	Permanent	—	4 in	5 in	SAE J845 Class II	406	**45RJ16**
Wolo											
12/60V DC	1.37 A	Variable	—	Amber	Permanent	Mounting Hardware	6 ¾ in	4 ½ in	SAE Class II	3080PPM-A	**45A233**
	1.37 A	Variable	—	Blue	Permanent	Mounting Hardware	6 ¾ in	4 ½ in	SAE Class II	3085PPM-B	**45A234**
	1.37 A	Variable	—	Red	Permanent	Mounting Hardware	6 ¾ in	4 ½ in	SAE Class II	3090PPM-R	**45A235**
	1.37 A	Variable	—	Green	Permanent	Mounting Hardware	6 ¾ in	4 ½ in	SAE Class II	3097PPM-G	**45A237**
Halogen											
Approved Vendor											
12/48V DC	0.38 A	80	Round	Amber, Black	—	1 Barrier Strip With 4 Terminals And 1 Gasket, 1 Brushing, 3 Flat Washers, 3 Hex Head Screws, 3 Hex Nuts, 3 Lock Washers	4 ¾ in	6 in	SAE	18C530	**18C530**
	0.38 A	80	Round	Amber, Black	Magnetic	—	4 ¾ in	6 in	SAE	18C531	**18C531**
12V DC	3 A	130	Round	Amber	Magnetic	10 ft cord	5 ⅝ in	6 in	CE	—	**2ERT5**
Flash Tube											
Federal Signal											
12/48V DC	0.03 A	75	Round, Twist-Off	Amber	Permanent	½ in Pipe, Permanent Mount, Pigtail	4 in	3 in	SAE J845 Class III	462121-02	**5UVL9**
	0.65 A	65	Round	Amber	Permanent	Mounting Hardware, Pigtail	5 in	5 ¾ in	SAE J845 Class II	220300-02	**5UVL5**
12 to 48V DC	0.3 A	75	Fresnel	Red	Permanent	—	4 in	3 in	SAE J845 Class III	462121-04	**401N29**
Reese											
12V DC	0.3 A	70	Round	Amber	Magnetic	10 ft Cord w/Lighter Plug and On/Off Switch and LED Indicator	6 in	4 ⅝ in	SAE J845 Class III	7381442	**2ZPW2**
Railhead Gear											
120V AC	0.18 A	63, 80, 120	Dome	Amber	Permanent	—	—	—	—	M490 LED A	**39F093**
	0.18 A	63, 63, 80, 120	Dome	—	—	—	—	—	—	M490 LED B	**39F094**

49KD43

49KD44

12Y109

45TN91

35ZX15

49KD40

Beacon Rotating Lights

ECCO® FEDERAL SIGNAL

Voltage	Current Drawn	Flashes per Minute	Lens Design	Lens Color	Mounting	Includes	Height	Diameter	Std.	Mfr. Model	Item No.
LED											
Ecco											
12/24V DC	2.1 A	12	Round, Twist-Off	Amber	Permanent	15 ft Cord with On/Off Switch	7 ¾ in	6 ½ in	California Title 13, CE, IP67, R10, SAE J845 Class I	7660A-VM	**406A87**
12/80V DC	0.47 A	70	Round, Twist-Off	Amber	Permanent	Mounting Hardware	4 ⅞ in	2 ¾ in	CE, R10, SAE Class III, UL IP67	6262A	**49KD42**
	0.47 A	70	Round, Twist-Off	Amber	Permanent	Mounting Hardware	4 ⅞ in	2 ¾ in	CE, R10, SAE Class III, UL IP67	6267A	**49KD43**
	0.1 A	85	Round, Twist-Off	Amber	Permanent	Mounting Hardware	3 ⅞ in	5 ⅝ in	CE, R10, SAE Class III	6465A	**49KD44**
	0.1 A	85	Round, Twist-Off	Amber	Permanent	Cig Plug, Magnet Mount	3 ⅞ in	5 ⅝ in	CE, R10, SAE Class III	6465A-MG	**49KD45**
12/24V DC	1.3 A	12	Round, Twist-Off	Amber	Permanent	Mounting Hardware	8 in	6 ½ in	CE, R10, SAE J845 Class II	7945A	**49KD48**
	1.3 A	12	Round, Twist-Off	Amber	Magnetic	15 ft Cord, Cig Plug, Magnet Mount	9 in	6 ½ in	CE, R10, SAE Class II	7945A-VM	**49KD49**
12 to 24V DC	2.1 A	125	Round, Screw On	Amber	Permanent	Gasket, Mounting Hardware	7 ½ in	6 ½ in	California Title 13, CE, IP67, R10, SAE J845 Class I	7660A	**406A86**
	1.4 A	180	Round, Twist-Off	Amber	Pedestal	Mounting Hardware	5 45/64 in	6 in	CA T13, CE, R10, SAE Class 1	EB7810A	**55JG80**
	1.4 A	180	Round, Twist-Off	Amber	Permanent	Mounting Hardware	5 45/64 in	6 in	CA T13, CE, R10, SAE Class 1	EB7813A	**55JG81**
	1.4 A	180	Round, Twist-Off	Amber	Magnetic	Mounting Hardware	5 45/64 in	6 in	CA T13, CE, R10, SAE Class 1	EB7813A-MG	**55JG82**
	1.4 A	180	Round, Twist-Off	Amber	Permanent	Mounting Hardware	5 45/64 in	6 in	CA T13, CE, R10, SAE Class 1	EB7816A	**55JG83**
Federal Signal											
12/24V DC	0.8 A	14	Round, Twist-Off	Amber	Permanent	1 in Pipe Bottom, Pigtail	6 in	6 ½ in	SAE J845 Class II	212650-02	**12Y109**
	1.2 A	14	Round, Twist-Off	Amber	Magnetic	Cord With Cigarette Plug	5 ¼ in	6 ½ in	SAE J1318 J845, Class 1	252651-02	**12Y108**
	1 A	14	Round, Twist-Off	Amber	Permanent	O-Ring Gasket, Wire Lead	4 in	5 in	SAE J845 Class III	220350-02	**45TN91**
	1 A	14	Round, Twist-Off	Amber	Magnetic	Cigarette Plug/Cord, Magnetic Mount, O-Ring Gasket	4 in	5 in	SAE J845 Class III	220360-02	**45TN92**
	0.74 A	14	Round, Twist-Off	Amber	Permanent	1 in Pipe, Permanent Mount, Wire Lead	6 in	6 ½ in	SAE J845 Class I	212660-02SB	**45TN93**
	0.65 A	14	Round, Twist-Off	Amber	Magnetic	Cigarette Plug/Cord, Suction Cup Magnetic Mount, Tall Dome	6 in	6 ½ in	SAE J845 Class II	212654-02SB	**45TN97**
	1 A	14	Round, Twist-Off	Amber	Permanent	½ in Pipe Mount, Perm Mt	3 ½ in	5 in	SAE J845 Class II	220250-02	**35ZX15**
	1 A	14	Round, Twist-Off	Amber	Magnetic	Cord with Cigarette Plug	3 ½ in	5 in	SAE J845 Class II	220260-02	**35ZX17**
	1.8 A	75/90/120	Oval	Amber	Permanent	—	5 ¾ in	7 in	SAE J845, Class 1	262650-02	**39F803**
12 to 24V DC	1.8 A	75/90/120	Oval	Amber	Permanent	1 in Pipe Bottom, Pigtail	5 ¾ in	7 in	SAE J845, Class 2	272650-02	**39F802**
Halogen											
Ecco											
12V DC	4.9 A	195	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7 ¾ in	6 in	R10, R65, SAE Class 1	5813A	**49KD39**
	4.9 A	195	Round, Twist-Off	Amber	Magnetic	15 ft Cord w/Switch Lighter Adapter	7 ¾ in	6 in	R10, R65, SAE Class 1	5813A-MG	**49KD40**
	4.9 A	195	Round, Twist-Off	Amber	Permanent	Mounting Hardware	7 ¾ in	6 in	R10, R65, SAE Class 1	5816A	**49KD41**

Maxxima® Grote Railhead Gear

LED Magnetic Battery-Operated Warning Lights

39F092

13W999

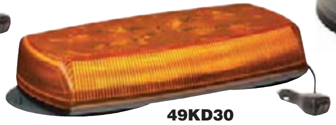
22N676

22N677

39F105

Color	Lens Design	Power Source	Dim.	Brand	Mfr. Model	Item No.
Magnetic Safety/Warning Light						
Amber	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	M100A-LED	**39F079**
Blue	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	M100B-LED	**39F078**
Red	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	M100R-LED	**39F080**
Revolving Safety/Warning Light						
Amber	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	RM18-LED A	**39F091**
Blue	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	RM18-LED	**39F090**
Red	Dome	(2) D Batteries (Not Included)	4 9/64 in dia. x 5 ½ inH	Railhead Gear	RM18-LED R	**39F092**
Warning Light						
Amber	Round	(2) D Batteries (Not Included)	4¼" dia. x 5 3/16"H	Grote	77913	**13X001**
Red	Round	(2) D Batteries (Not Included)	4¼" dia. x 5 3/16"H	Grote	77912	**13W999**
Amber	Round	(3) AAA Batteries (Not Included)	3½" dia. x 1½"H	Maxxima	SDL-35Y	**22N676**
Amber	Oval	(4) AA Batteries (Not Included)	1 13/32"H x 4"W	Maxxima	SDL-50-A	**22N677**
Red	Round	(3) AAA Batteries (Not Included)	3½" dia. x 1½"H	Maxxima	SDL-35R	**22N675**
Red	Oval	(4) AA Batteries (Not Included)	1 13/32" H x 4"W	Maxxima	SDL-52-A	**22N678**
Warning Strobe						
Blue	Round Screw On	(1) D Battery (Not Included)	2 1/32 in dia. x 4 ½ inH	Railhead Gear	M50B-LED	**39F105**

49KD32


49KD30

406A15

406A22

49KD38

35GX20

35GX17

Mini LED Low-Profile Lightbars

CODE 3 · ECCO · FEDERAL SIGNAL · PSE AMBER

Color	No. of LEDs	Current Drawn	No. of Flash Patterns	Includes	Wiring Connection	Length	Width	Height	Mfr. Model	Item No.
Magnetic										
Ecco										
Amber LED/Clear Lens	16	2.7 A	18	15 ft Cord, Cigarette Plug, Suction Cup Magnet Mount	Lighter Plug	18 in	10 in	3 in	5580CA-VM	**49KD32**
Amber	16	2.7 A	18	15 in Cord, Cigarette Plug, Suction Cup Magnet Mount	Lighter Plug	18 in	10 in	3 in	5580A-VM	**49KD30**
Amber/Clear	24	0.7 A	18	15 ft Cigarette Plug with Switch	Lighter Plug	12 in	8 3/4 in	4 3/32 in	5545CA-VM	**406A15**
Amber	24	2.7 A	18	15 ft Cigarette Plug with Switch	Lighter Plug	18 in	10 in	3 in	5580A-MG	**406A22**
Amber	24	2.7 A	18	15 ft Cigarette Plug with Switch	Lighter Plug	15 in	9 in	2 1/2 in	5585A-VM	**406A26**
Amber	24	0.7 A	18	15 ft Cigarette Plug with Switch	Lighter Plug	12 in	8 3/4 in	4 3/32 in	5545A-VM	**406A13**
Amber/Clear	32	6 A	18	15 ft Cord, Cigarette Plug, Suction Cup Magnet Mount	Lighter Plug	15 in	10 in	3 in	5590CAC-VM	**49KD37**
Amber LED/Clear Lens	32	6 A	18	15 in Cord, Cigarette Plug, Suction Cup Magnet Mount	Lighter Plug	18 in	10 in	3 in	5590CA-VM	**49KD38**
Federal Signal										
Amber	26	4 A	23	10 ft Cord, Cigarette Plug, Gasket, Magnetic Mount	Lighter Plug	15 4/5 in	8 3/8 in	3 in	454102HL-02	**35GX20**
Amber	26	4 A	23	10 ft Cord, Cigarette Plug, Gasket	Pigtail	15 4/5 in	7 in	3 in	454100HL-02	**35GX16**
Amber	26	4 A	23	10 ft Cord, Cigarette Plug, Gasket, Magnetic Mount	Lighter Plug	15 4/5 in	7 in	3 in	454102HL-25	**35GX21**
Amber	42	6 A	23	Cigarette Plug Adapter, Mounting Hardware	Lighter Plug	15 13/16 in	7 in	3 in	454300HL-AA	**401N77**
Amber	42	6 A	23	Cigarette Plug Adapter, Mounting Hardware	Lighter Plug	15 13/16 in	7 in	3 in	454302HL-AA	**401N79**
Permanent										
Code 3										
Amber	32	16 A	12	Mounting Hardware, Wiring Harness	Pigtail	22 in	12 in	2 in	21TR22A1	**13K452**
Red/Blue	48	24 A	23	Mounting Hardware, Wiring Harness	Pigtail	52 in	12 19/64 in	2 19/64 in	21TR52A4	**13D628**
Amber	60	100 A	12	Mounting Hardware, Wiring Harness	Pigtail	58 in	12 19/64 in	2 19/64 in	21TR5812	**13K451**
Amber	72	36 A	12	Mounting Hardware, Wiring Harness	Pigtail	47 in	12 in	2 in	21-30407-C	**13K449**
Ecco										
Amber	16	2.7 A	18	Foam Gasket, Lead Wires, Mounting Hardware	Pigtail	18 in	10 in	3 in	5580A	**49KD29**
Amber LED/Clear Lens	16	2.7 A	18	Foam Gasket, Lead Wires, Mounting Hardware	Pigtail	18 in	10 in	3 in	5580CA	**49KD31**
Amber	24	5.1 A	18	Gasket, Mounting Hardware	Pigtail	15 in	9 in	2 1/2 in	5585A	**406A24**
Amber	24	5.1 A	18	Gasket, Mounting Hardware	Hardwired	15 in	9 in	2 1/2 in	5585CA	**406A27**
Amber	32	6 A	18	Foam Gasket, Lead Wires, Mounting Hardware	Pigtail	18 in	10 in	3 in	5590A	**49KD33**
Amber LED/Clear Lens	32	6 A	18	Foam Gasket, Lead wires, Mounting Hardware	Pigtail	18 in	10 in	3 in	5590CA	**49KD35**
Amber	72	8 A	31	Mounting Hardware	Pigtail	52 in	17 1/2 in	7 in	21-00009-E	**405Z79**
Federal Signal										
Amber	26	4 A	23	18 in Cord, Gasket, Permanent Mount	Pigtail	15 4/5 in	8 3/8 in	3 in	454101HL-02	**35GX18**
Amber	26	4 A	23	18 in Cord, Gasket, Permanent Mount	Pigtail	15 4/5 in	7 in	3 in	454101HL-25	**35GX19**
Blue	26	8 A	23	Mounting Hardware	Pigtail	15 13/16 in	7 in	3 in	454101HL-03	**401N75**
Amber	36	4.8 A	23	18 in Cord, Gasket, Permanent Mount	Pigtail	15 4/5 in	7 in	3 in	454201HL-02	**35GX24**
Amber	36	4.8 A	23	18 in Cord, Gasket, Permanent Mount	Pigtail	15 4/5 in	7 in	3 in	454201HL-25	**35GX26**
Amber	42	6 A	23	Mounting Hardware	Pigtail	15 13/16 in	7 in	3 in	454301HL-AA	**401N78**
Red	42	6 A	23	Mounting Hardware	Pigtail	15 13/16 in	7 in	3 in	454301HL-RR	**401N80**
PSE Amber										
Amber	78	59 A	4	15 ft Wiring Harness, Mounting Hardware	Pigtail	47 in	12 in	3 in	2747AW1	**6GPW7**
Suction										
Federal Signal										
Amber	26	4 A	23	10 ft Cord, Cigarette Plug, Gasket, Suction Cup Magnet Mount	Pigtail	15 4/5 in	7 in	3 in	454100HL-25	**35GX17**

Maxxima · Grote The first name in vehicle safety systems.

12D309

22N658

54DE32

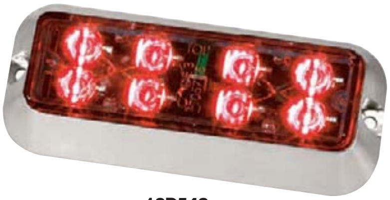
54DE40

2CWK8

LED Strip Lighting

Lumens	Voltage	Mounting	Current Rating	No. of LEDs	Light Color	Includes	Length	Width	Mfr. Model	Item No.
Maxxima										
300 lm	12V DC	High Bond Tape	—	27	White	Mounting Clips, Screws	18 in	1/4 in	MLS-1827-A	**12D309**
408 lm	12V DC	High Bond Tape	—	36	White	Mounting Clips, Screws	24 in	1/4 in	MLS-2436-A	**12D310**
612 lm	12V DC	High Bond Tape	—	54	White	Mounting Clips, Screws	36 in	1/4 in	MLS-3654-A	**12P856**
492 lm	12V DC	High Bond Tape	710 mA	36	White	Mounting Clips, Screws	24 in	1/4 in	MLS-2436WW-A	**22N658**
738 lm	12V DC	High Bond Tape	1110 mA	54	White	Mounting Clips, Screws	36 in	1/4 in	MLS-3654WW-A	**22N662**
782 lm	12V DC	High Bond Tape	1300 mA	70	White	Mounting Clips, Screws	45 in	1/4 in	MLS-4569-A	**22N663**
—	12V DC	High Bond Tape	1110 mA	54	Red	—	36 in	1/4 in	MLS-3654R	**22N660**
375 lm	12V DC	Permanent	—	54	White	—	18 in	5/8 in	M84423-B	**54DE32**
750 lm	12V DC	Permanent	—	108	White	—	36 in	5/8 in	M84425-B	**54DE34**
250 lm	12V DC	High Bond Tape	0.4 A	27	White	Moisture Proof Construction, Third Wire for Optional Door Control, Ultra Low Amp Draw	18 in	1/4 in	MLS-1827-A-SW	**54DE40**
640 lm	12V DC	High Bond Tape	1.0 A	70	White	Moisture Proof Construction, Third Wire for Optional Door Control, Ultra Low Amp Draw	45 in	1/4 in	MLS-4569-A-SW	**54DE43**
1,000 lm	12V DC	Permanent	—	144	White	Center Hold Down Clamp	48 in	5/8 in	M84429-B	**49XE40**
Grote										
—	12V DC	Clip	—	—	White	(50) Mounting Clips and (10) End Caps, 50 ft Roll Comes with (10) Wire Connectors, LED's Spaced 1 Per Inch	50 ft	—	60481	**2CWK8**

12P028



13D548

5LLR3

49KD73

5UVN1

LED Emergency Vehicle Lighting

CODE 3 · ECCO · FEDERAL SIGNAL

Item	Voltage	Current Drawn	Lens Color	Flash Type	Flashes per Minute	Mounting	Includes	Wiring Connection	Length	Height	Width	Mfr. Model	Item No.
Code 3													
Scene Light	12 to 24V DC	3.3 A	White	N/A	0	Permanent	Chrome Bezel, Mounting Hardware	Pigtail	4 in	6 in	1 ½ in	46SCENE	**421G24**
Scene Light	12 to 24V DC	3.8 A	White	N/A	0	Permanent	Chrome Bezel, Mounting Hardware	Pigtail	7 in	9 in	1 ½ in	79SCENE	**421G44**
Single Head Dash Light	—	0.5 A	Amber	22 Flash Patterns	Variable	Suction	12 ft Cord w/Lighter Plug, Mounting Bracket, On/Off Switch	Lighter Plug	5 in	1 ¾ in	4 ¾ in	XT401	**12P028**
Warning Lamp	12 to 24V DC	—	Blue	—	—	Permanent	9 ft Lighter Plug with On/Off Switch	Pigtail	11 in	5 ¼ in	1 in	VFP36BB	**421D84**
Warning Lamp	12 to 24V DC	—	Clear	—	—	Permanent	9 ft Lighter Plug with On/Off Switch	Pigtail	11 in	5 ¼ in	1 in	VFP36CBB	**421D85**
Warning Lamp	12 to 24V DC	—	Clear	—	—	Permanent	9 ft Lighter Plug with On/Off Switch	Pigtail	11 in	5 ¼ in	1 in	VFP36CRB	**421D86**
Warning Lamp	12 to 24V DC	—	Clear	—	—	Permanent	9 ft Lighter Plug with On/Off Switch	Pigtail	11 in	5 ¼ in	1 in	VFP36CRR	**421D87**
Warning Lamp	12 to 24V DC	—	Red	—	—	Permanent	9 ft Lighter Plug with On/Off Switch	Pigtail	11 in	5 ¼ in	1 in	VFP36RR	**421D88**
Warning Light	12V DC	0.5 A	Amber	7 Flash Patterns	Variable	Permanent	Pigtail	Pigtail	5 in	2 in	1 in	LXEX1F	**13D547**
Warning Light	12V DC	0.5 A	Red	7 Flash Patterns	Variable	Permanent	Pigtail	Pigtail	5 in	2 in	1 in	LXEX1F	**13D548**
Warning Light	12 to 24V DC	0.9 A	Blue, Red	69 Flash Patterns	Variable	Suction	(2) L Brackets, (4) Suction Cups, 8.5 ft Cable	Lighter Plug	7 ¾ in	2 ¼ in	4 ½ in	CD3766RB-VDL	**421G81**
Ecco													
Directional Lamp	12V DC	—	Clear, White	—	—	Permanent	Mounting Gasket	Pigtail	6 ½ in	2 ½ in	2 in	3811C	**5LLR4**
Directional Lamp	12V DC	—	Yellow	—	—	Permanent	Mounting Gasket	Pigtail	6 ½ in	2 ½ in	2 in	3811A	**5LLR3**
Directional Lamp	—	0.8 A	Amber, Clear	13 Flash Patterns	Variable	Permanent	—	Pigtail	5 ½ in	2 in	1 ½ in	ED3701AC	**406C49**
Warning Light	12 to 24V DC	—	Amber, White	—	—	Permanent	Mounting Hardware	Pigtail	4 in	1 ½ in	1 ½ in	ED3702AC	**49KD73**
Warning Light	12 to 24V DC	—	Amber, White	—	—	Permanent	Mounting Hardware	Pigtail	5 ½ in	2 in	2 in	ED3706A	**49KD76**
Warning Light	12 to 24V DC	0.5 A	Amber	11 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5 in	1 ½ in	1 ½ in	ED3703A	**405Z15**
Warning Light	12 to 24V DC	0.5 A	Clear	11 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5 in	1 ½ in	1 ½ in	ED3703C	**405Z16**
Warning Light	12 to 24V DC	1.0 A	Amber	21 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	6 11/32 in	1 ½ in	1 ½ in	ED3704A	**405Z18**
Warning Light	12 to 24V DC	1.0 A	Amber, Clear	21 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5 in	2 ½ in	1 ½ in	ED3744AC	**405Z21**
Warning Light	12 to 24V DC	1.0 A	Amber	21 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5 ½ in	2 in	2 in	ED3705A	**405Z24**
Warning Light	12 to 24V DC	0.8 A	Amber	13 Flash Patterns	Variable	Permanent	Mounting Hardware	Pigtail	5 ⅜ in	1 ⅜ in	3 in	ED3777A	**406C58**
Warning Light	12V DC	0.5 A	Amber	12 Flash Patterns	Variable	Permanent	Mounting Hardware, Pigtail	Pigtail	6 ½ in	3 in	5 ½ in	3510A	**6CCX1**
Federal Signal													
Scene Light	12V DC	4.0 A	White	—	—	Permanent	—	Pigtail	11 in	1 ¾ in	8	QL97LEDSCENE	**39F789**
Warning Light	12V DC	0.7 A	Red	25 Flash Patterns	Variable	Permanent	Black Bezel, Pigtail, Rubber Grommet, Screws	Pigtail	3 ¾ in	1 ¾ in	1 ¼ in	IPX302-4	**12Z087**
Warning Light	12V DC	1.0 A	Blue, Red	23 Flash Patterns	Variable	Permanent	Black Bezel	Pigtail	5 ½ in	2 in	1 ½ in	IPX620B-BR	**35ZX37**
Warning Light	12V DC	0.7 A	Amber	25 Flash Patterns	Variable	Permanent	Black Bezel, Pigtail, Rubber Grommet, Screws	Pigtail	3 ¾ in	1 ¾ in	1 ¼ in	IPX300-2	**3JYP9**
Warning Light	12V DC	0.7 A	Amber	25 Flash Patterns	Variable	Permanent	Black Bezel, Pigtail, Rubber Grommet, Screws	Pigtail	3 ¾ in	1 ¾ in	1 ¼ in	IPX302-2	**5UVN1**

49KD80

6GPW0

Directional Light Bars

ECCO · FEDERAL SIGNAL · PSE AMBER®

Item	Current Drawn	Lens Color	Flash Type	Flashes per Minute	Mounting	Includes	Wiring Connection	Length	Mfr. Model	Item No.
Ecco										
Directional Arrows	2.8 A	Amber	35 Flash Patterns	Variable	Permanent	In Cab Controller	Pigtail	57 in	ED3307A	**406C45**
Directional Arrows	2.8 A	Amber	35 Flash Patterns	Variable	Permanent	In Cab Controller	Pigtail	38 in	ED3307SA	**406C46**
Directional Lamp	—	Amber, Clear	—	—	Permanent	Multi Mount Hardware	Pigtail	1 ½ in	ED3766AC	**49KD80**
Directional Warning Lights	1.6 A	Amber	9 Flash Patterns	Variable	Permanent	15 ft Power Cable, In-Cab Controller	Pigtail	52 in	ED3315A	**406C47**
Federal Signal										
Directional Warning Lights	2.4 A	Amber	Arrow Left, Arrow Right, Center Out, Emergency Wigwag	Variable	Permanent	35 ft Cable, Control Box, Stop/Tail/Turn Override	Wire Harness	42 in	321712	**3KPW9**
PSE Amber										
Directional Warning Lights	6 A	Amber	32 Flash Patterns	Variable	Permanent	(8) Amber LED Modules, 15-ft Cable, Control Panel, Removable L-Shape Mounting Bracket	Pigtail	47 in	XT447AS	**6GPW0**

2VPJ6

2FEF5

2FEF8

2VPJ7

2VPJ5

Utility Trailer Lighting Kits

Trailer plugs and accessories on page 962

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Mounting	Type	Submersible	Wire Length	Includes	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Mfr. Model	Item No.
LED												
Magnetic	Round	No	20 ft	2 Lamps, Harness, Hardware	4 1/2 in	1 39/64 in	6 1/2 in	—	—	—	65720-5	**2VPJ6**
Permanent	Square	Yes	4 ft, 25 ft	2 Lamps, 2 Clearance Markers, Harness, License Bracket, Mounting Hardware	5 13/64 in	2 45/64 in	4 3/4 in	—	—	—	65330-5	**2VPJ5**
Permanent	Square	Yes	4 ft, 25 ft	2 Lamps, Harness, License Bracket, Mounting Hardware	5 13/64 in	2 45/64 in	4 3/4 in	—	—	—	65320-5	**2FEF8**
Permanent	Square	Yes	4 ft, 25 ft	2 Lamps, License Bracket, Harness, Hardware	4 27/32 in	3 1/32 in	4 49/64 in	—	—	—	65880-5	**411Z72**
Incandescent												
Magnetic	Round	No	20 ft	2 Lamps, Harness, Hardware	4 3/32 in	1 39/64 in	6 1/2 in	—	—	21U604	65730-5	**2VPJ7**
Permanent	Square	No	25 ft	2 Lamps, 2 Clearance Markers, Harness, License Bracket, Mounting Hardware	5 13/64 in	2 45/64 in	4 3/4 in	—	—	21U604/21U639	65370-5	**2FEF5**
Permanent	Oval	No	11 in	2 Lamps, 2 Brackets, 2 Pigtails, 2 Grommets	8 1/4 in	1 3/4 in	4 1/16 in	2CWX9	2CVN8, 2FDX7	21U604	53082-5	**2FEG8**

21U592

21U601

2FMZ9

2FMB9

3JYN8

412A19

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Replacement Taillights

Trade No.	Voltage	Color	Rated Life	Brand	Item No.	Pkg. Qty.
Incandescent						
198	12.8/14V AC	Clear	0.24 hr	LumaPro	**21U541**	1
	12.8/14V AC	Clear	0.24 hr	LumaPro	**2FLZ5**	10
1034	12.8/14V AC	Clear	0.4 hr	LumaPro	**21U592**	1
	12.8/14V AC	Clear	0.4 hr	LumaPro	**2FLW5**	10
1154	6.3/7V AC	Clear	2.0 hr	LumaPro	**21U598**	2
	6.3/7V AC	Clear	2.0 hr	LumaPro	**2FLR3**	10
1156	12.8V AC	Clear	1,200 hr	LumaPro	**21U601**	2
	12.8V AC	Clear	1,200 hr	LumaPro	**2FMN3**	10
1156LL	12.8V AC	Clear	2,400 hr	LumaPro	**21U602**	1
	12.8V AC	Clear	2,400 hr	LumaPro	**2FMZ3**	10
1156NA	12.8V AC	Amber	1,200 hr	LumaPro	**21U603**	1
	12.8V AC	Amber	1,200 hr	LumaPro	**2FLX9**	10
1157	12.8/14V AC	Clear	0.24 hr	LumaPro	**21U604**	2
	12.8/14V AC	Clear	2000/10,000 hr	LumaPro	**21U605**	2
	12.8/14V AC	Clear	0.24 hr	LumaPro	**2FMK9**	10
	12.8/14V AC	Clear	2400/10,000 hr	LumaPro	**12A782**	10
1157NA	12.8	Amber	0.24 hr	LumaPro	**21U606**	1
	12.8/14V AC	Amber	0.24 hr	LumaPro	**2FLU8**	10
2057	12.8/14V AC	Clear	0.24 hr	LumaPro	**21U640**	2
	12.8/14V AC	Clear	2400/10,000 hr	LumaPro	**21U492**	2
	12.8/14V AC	Clear	0.24 hr	LumaPro	**2FLX6**	10
2057NA	12.8	Amber	0.24 hr	LumaPro	**21U641**	2
	12.8	Amber	2000/10,000 hr	LumaPro	**21U493**	2
	12.8/14V AC	Amber	0.24 hr	LumaPro	**2FLP7**	10
2357	12.8	Clear	0.08 hr	LumaPro	**21U645**	2
	12.8/14V AC	Clear	0.08 hr	LumaPro	**2FLR4**	10
2357NA	12.8	Amber	0.08 hr	LumaPro	**21U644**	2
3057	12.8/14V AC	Clear	0.24 hr	LumaPro	**21U647**	2
	12.8/14V AC	Clear	2000/10,000 hr	LumaPro	**21U495**	2
	12.8/14V AC	Clear	0.24 hr	LumaPro	**2FLX8**	10
3057NA	12.8/14V AC	Amber	0.24 hr	LumaPro	**21U648**	2
	12.8/14V AC	Amber	0.24 hr	LumaPro	**2FMZ9**	10
3155	12.8	Clear	—	LumaPro	**21U649**	2
	12.8V AC	White	1,000 hr	LumaPro	**2FLR1**	10

Trade No.	Voltage	Color	Rated Life	Brand	Item No.	Pkg. Qty.
3156	12.8V AC	Clear	1,200 hr	LumaPro	**21U650**	2
	12.8	Clear	—	LumaPro	**21U496**	2
	12.8V AC	Clear	1,200 hr	LumaPro	**2FLW3**	10
3157	12.8/14V AC	Clear	0.24 hr	LumaPro	**21U654**	2
	12.8/14V AC	Clear	2000/10,000 hr	LumaPro	**21U651**	2
	12.8/14V AC	Clear	0.24 hr	LumaPro	**2FMB9**	10
3157NA	12.8/14V AC	Amber	0.24 hr	LumaPro	**21U652**	2
	12.8/14V AC	Amber	0.24 hr	LumaPro	**21U653**	2
	12.8/14V AC	Amber	0.24 hr	LumaPro	**2FLT5**	10
	12.8/14V AC	Clear	2000/10,000 hr	LumaPro	**3EHL8**	10
3457	12.8/14V AC	Clear	0.08 hr	LumaPro	**21U655**	2
	12.8/14V AC	Clear	800/10,000 hr	LumaPro	**21U497**	2
	12.8/14V AC	Clear	0.08 hr	LumaPro	**2FNA1**	10
3457NA	12.8/14V AC	Amber	0.08 hr	LumaPro	**21U656**	2
	12.8/14V AC	Amber	0.08 hr	LumaPro	**2FNA2**	10
3496	12.8/14V AC	Clear	0.12 hr	LumaPro	**3EHN2**	1
4114	14/14V AC	Clear	4000/10,000 hr	LumaPro	**3EHN4**	10
4157	12.8/14V AC	Clear	4000/10,000 hr	LumaPro	**21U657**	2
	12.8/14V AC	Clear	3600/10,000 hr	LumaPro	**2EKW7**	10
7225	12.8/12V AC	Clear	0.1 hr	LumaPro	**2FMX5**	10
7440	12V AC	Clear	300 hr	LumaPro	**21U659**	2
	12V AC	Clear	300 hr	LumaPro	**2FMX6**	10
7443	12V AC	Clear	0.5 hr	LumaPro	**21U660**	2
7443NA	12V AC	Amber	0.5 hr	LumaPro	**2FNA6**	10
7506	12V AC	Clear	150 hr	LumaPro	**2FMX8**	10
	12V AC	White	400 hr	LumaPro	**2FNA7**	10
LED						
194	12V AC	White	—	Grote	**412A04**	2
194NA	12V AC	Amber	—	Grote	**412A06**	2
211	12V AC	White	—	Grote	**412A08**	1
1156	12V AC	White	8,000 hr	Hamsar	**3JYN8**	1
	12V AC	Amber	8,000 hr	Hamsar	**3JYN6**	1
	12V AC	White	—	Grote	**412A10**	2
1157	12V AC	White/Amber	—	Grote	**412A15**	1
	12V AC	Amber	8,000 hr	Hamsar	**3JYP3**	1
	12V AC	White	8,000 hr	Hamsar	**3JYP5**	1
	12 to 24V AC	Red	8,000 hr	Hamsar	**3JYP7**	1
	12V	White	50,000 hr	Grote	**412A13**	2
3156	12V AC	White	8,400 hr	Grote	**412A17**	2
3157	12V AC	White	—	Grote	**412A23**	1
	12V AC	White	8,400 hr	Grote	**412A19**	2
3157 NA	12V AC	Amber	8,400 hr	Grote	**412A21**	2
3175	12V AC	White	—	Grote	**412A24**	1

Rectangular Clearance Marker Lights and Bar Lights

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Description	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Clearance Marker Lamp											
LED											
SuperNova® Turtleback® II	5 ¾ in	1 ½ in	2 in	2CWX1, 2CWX3, 2CWZ5, 2VPL8	—	—	Grote	47072	2CVW9	47073	2CVX1
SuperNova® 19 Style	3 ⅞ in	⅞ in	1 ¼ in	2VPL6, 2VPL7	2CVP3	—	Grote	47092	2CVX2	47093	2CVX3
SuperNova® Thin Line	3 ¾ in	1 ¼ in	⅞ in	2CWX5, 2CWX7	—	—	Grote	47242	2CVY4	47243	2CVY5
Hi Count® Turtleback® II	5 ⅞ in	1 ½ in	2 in	—	—	—	Grote	—	—	G2103	2FEA2
Hi Count® 13 Diode	4 in	1 ⅛ in	2 in	—	2VNJ1	—	Grote	G4602	2FEC8	G4603	2FED2
SuperNova® 15 Style	2 ⅝ in	¾ in	1 ¼ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2VNH2, 2VNH3, 2VNJ7, 2VNJ8	—	Grote	47082	2VNT2	47083	2VNT3
Hi Count® 3 Diode	2 ⅝ in	¾ in	1 ¼ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2VNH2, 2VNH3, 2VNJ7, 2VNJ8	—	Grote	G1502	2VRC3	—	—
SuperNova®	3 ⅛ in	¾ in	2 in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	5UVZ5, 5UVZ6	—	Grote	47502	5UVT0	47503	5UVT1
SuperNova® Thin Line	3 ¾ in	—	⅞ in	2CWX5, 2CWX7	—	—	Grote	65512	5UVY1	65513	5UVY2
SuperNova® Small Aerodynamic	7 ⅛ in	2 ⅝ in	2 ⅛ in	—	2VPZ8	—	Grote	—	—	47183	2CVY2
Hi Count® Turtleback®	5 ⅞ in	1 ½ in	2 in	—	—	—	Grote	G2102	2FDZ8	—	—
Clearance Marker	4 in	½ in	¾ in	—	—	—	Maxxima	M20341RCL	36XD89	M20341YCL	36XD91
Incandescent											
Turtleback® II Optic Lens	5 ⅞ in	1 ½ in	2 in	2CWX1, 2CWX3, 2CWZ5, 2VPL8	—	21U638	Grote	46832	2CVV7	46833	2CVV8
Knapeheide™ Knapheide Style	3 ⅛ in	¾ in	2 in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	5UVZ5, 5UVZ6	21U638	Grote	45232	2VNK8	45233	2VNK9
Narrow Rail, Armored Housing	4 ½ in	1 ½ in	2 ⅛ in	—	—	21U638	Grote	45172	2CVR7	45173	2CVR8
Bar Lamp											
LED											
SuperNova® Thin Line	19 ⅝ in	2 in	1 ¼ in	—	—	—	Grote	49122	2CWA6	—	—
Hylite ID	13 ⅝ in	¾ in	1 ½ in	—	—	—	Grote	49242-5	2VNU8	—	—
SuperNova®	17 in	—	1 ½ in	—	—	—	Grote	49182	2VNU7	—	—
Thin Line	15 in	1 ⅜ in	1 ¼ in	—	—	—	Grote	49192	13W951	—	—

Round Clearance Marker Lights

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Description	Diameter	Pigtails	Brackets	Replacement Bulbs	Brand	Red Mfr. Model	Red Item No.	Yellow Mfr. Model	Yellow Item No.
Clearance Marker Lamp									
LED									
Clearance Marker	¾ in	—	¾" Round Red LED P2PC with Grommet/Bullet Connector	Clearance Marker Lights	Maxxima	M09300R	8PMA5	—	—
Clearance Marker	¾ in	—	—	—	Maxxima	—	—	M09300Y	54DD94
Clearance Marker Mini Combination	1 ¼ in	—	—	—	Maxxima	M09400R	6FDZ1	—	—
Hi Count® 9 Diode	2 in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	G3002	2FEA5	G3003	2FEA8
SuperNova®	2 ½ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	47122	2CVX7	47123	2CVX8
Hi Count® Multiple-Diode Design	2 ½ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	G1032	2FDY8	G1033	2FDZ1
Clearance Marker	2 ½ in	—	—	—	Maxxima	M11300R	3UKL5	M11300Y	3UKP3
Clearance Marker	2 in	—	—	—	Maxxima	M09100R	3VMW5	—	—
SuperNova® PC Rated	2 ½ in	—	—	—	Grote	47232	2VNT7	47233	2CVY3
SuperNova®	2 in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	—	Grote	47112	2CVX5	47113	2CVX6
Incandescent									
Optic Lens	2 in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45822	2CVT9	45823	2CVU1
Optic Lens	2 ½ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45812	2CVT7	45813	2CVT8
Clearance Marker	2 ½ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	—	—	45833	2CVU3
Reflex Lens	2 ½ in	2CWW2, 2CWW4, 2CWY2, 2CWZ3, 2VPK5, 2VPK6, 2VPL2	2CVP2, 2VNG7, 2VNH8, 2VNJ4, 2FDX1,	21U638	Grote	45832	2CVU2	—	—

Oval Side Clearance Marker Lights

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Description	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Yellow Mfr. Model	Yellow Item No.	Red Mfr. Model	Red Item No.
Clearance Marker Lamp											
LED											
MicroNova®	2 in	¾ in	¾ in	—	5UVP7	—	Grote	47963	2CVZ2	—	—
Clearance Marker	4 in	1 in	2 in	—	—	—	Maxxima	M23015Y	3VNN8	M23015R	3VNN5
Clearance Marker Chrome	6 ½ in	¾ in	2 in	—	—	—	Maxxima	M72270Y	3VMU7	—	—
Clearance Marker	6 ¼ in	¾ in	1 ¾ in	—	—	—	Maxxima	M30332Y	54DE13	M30332R	54DE12
Clearance Marker	10 ¾ in	2 ¾ in	4 in	—	—	—	Maxxima	M27011Y	22N696	—	—
Clearance Marker KIT	6 ⅜ in	2 in	2 ⅜ in	—	—	—	Federal Signal	607101-02SB	45TN84	—	—
Incandescent											
Clearance Marker	4 in	1 in	2 in	—	2VNJ1	21U638	Grote	45433	2VNL5	45432	2VNL4
Low Profile	5 in	7⁄16 in	1 ½ in	2CXA4	—	21U538	Grote	45713	2VNN5	45712	2VNN4
Optic Lens	4 in	1 in	2 in	—	2VNJ1	21U638	Grote	45263	2CVT1	45262	2CVR9
Mid-Turn/Marker Lamp											
LED											
SuperNova®	6 in	2 in	2 ½ in	2CWW6, 2CWW8, 2VPL5	—	—	Grote	53493	2VNZ2	—	—
Side Turn/Side Marker											
Clearance Marker	4 ½ in	1 ½ in	2 in	—	—	—	Maxxima	M63122Y	34TG88	—	—
Incandescent											
Economy	6 ½ in	1 ¼ in	2 ¼ in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	21U640	Grote	52193	2CWB8	—	—

Square Stop/Tail/Turn Lights

Description	Lens Color	Length	Width	Height	Pigtails	Replacement Bulbs	Replacement Lens	Brand	Mfr. Model	Item No.
LED										
SuperNova® Three Stud	Red	5 ¾ in	2 ⅞ in	6 ¾ in	—	21U601	2FDV5	Grote	50920	**2CWB3**
SuperNova® Three Stud, RH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601	2FDV5	Grote	53630	**2VNZ7**
Hi Count® Multiple-Diode Design, LH	Red, Yellow	4 ⅝ in	2 in	4 ⅝ in	—	—	—	Grote	G5530	**2VRD3**
Hi Count® Multiple-Diode Design, RH	Red, Yellow	4 ⅝ in	2 in	4 ⅝ in	—	—	—	Grote	G5540	**2VRD4**
Hi Count® Three Stud, LH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	—	—	—	Grote	G5092-5	**2FED8**
Hi Count® Three Stud, RH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	—	—	—	Grote	G5082-5	**2FED5**
Optic Lens	Amber, Black, Clear, Red	11 5⁄16 in	1 5⁄16 in	5 ⅜ in	—	—	—	J.W. Speaker	265	**45RJ39**
Three Stud, Dual	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601	2FDV5	Grote	53650	**2VNZ9**
Three Stud, LH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601	2FDV5	Grote	53640	**2VNZ8**
Incandescent										
Stop/Turn/Tail Light	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U647	2FDV5	Grote	53792	**2CWG2**
Stop/Turn/Tail Light	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U647	2FDV5	Grote	53782	**2CWG1**
RH	Red, Yellow	5 13⁄16 in	2 ¾ in	4 ½ in	—	21U601/21U537	2VPY5, 2FDW2	Grote	55450	**2VPA8**
Three Stud	Red	5 ¾ in	2 ⅞ in	6 ¾ in	—	21U601/21U604	2FDV5	Grote	50972	**2CWB4**
Three Stud	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601/21U604	2FDV5	Grote	53762	**2CWF9**
Three Stud, LH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601/21U640	2FDV5	Grote	53712	**2CWF7**
Three Stud, RH	Red	5 ¾ in	2 ⅞ in	6 ¾ in	2CXA6	21U601/21U640	2FDV5	Grote	53702	**2CWF6**
Two Stud, RH or LH	Red, Yellow	4 9⁄16 in	2 ⅞ in	4 ¾ in	—	21U601/21U537	2VPY5, 2FDW2	Grote	55470	**2CWG9**

Round Stop/Tail/Turn Lights

Description	Lens Color	Diameter	Pigtails	Brackets	Replacement Bulbs	Brand	Mfr. Model	Item No.
LED								
SuperNova® 10-Diode Pattern	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	53252	**2CWE8**
SuperNova® 10-Diode Pattern	Red	4 5⁄16 in			—	Grote	52092	**2VNW5**
SuperNova® 10-Diode Pattern	Yellow	4 5⁄16 in			—	Grote	53253	**2CWE9**
SuperNova® Kit, 10-Diode Pattern	Red	4 5⁄16 in	2CWV5, 2VPK9		—	Grote	53462	**2VNZ1**
Stop/Turn/Tail Light	Red	4 ¼ in	3LXG3	—	—	Maxxima	M42120R	**38ZM49**
Stop/Turn/Tail Light	Red	4 ¼ in		49XE47, 49XE55, 3LXG5	—	Maxxima	M42322R	**49XE42**
Stop/Turn/Tail Light	Red	4 ¼ in			—	Maxxima	M56100R	**49XE50**
Stop/Turn/Tail Light	Red	5 ½ in	—	—	—	Maxxima	M42321R	**54DE18**
Stop/Turn/Tail Light	Red	5 ½ in			—	Maxxima	M85417R	**54DE38**
Stop/Turn/Tail Light	Amber, Red	4 ¼ in			—	Maxxima	M42341R/Y	**12P857**
Stop/Turn/Tail Light	Red	7 in		5UVZ8	—	Grote	53422	**2CWF4**
Stop/Turn/Tail Light 6 Diode	Red	4 5⁄16 in	3LXG3	3LXG4, 3LXG5, 49XE47, 49XE55	—	Maxxima	M42346R-KIT	**22N684**
Stop/Turn/Tail Light 6 Diode	Red	4 ¼ in			—	Maxxima	M42346R	**6FDV7**
Hi Count®	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	G4002	**2FEC2**
Hi Count®	Red	4 5⁄16 in			—	Grote	G4003	**2FEC5**
Hi Count® Kit	Red	4 5⁄16 in			—	Grote	G4012	**13X011**
Hi Count® Multiple-Diode Design	Red, Yellow	4 3⁄16 in	—	—	—	Grote	G5300	**2VRD2**
Grote Select™	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ2, 2VPZ5, 2VPZ6, 2CVN7, 2VPZ7, 2VNH9, 2FDW4	—	Grote	54342	**5UVT8**
Incandescent								
Torsion Mount™ II	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ6, 2VPZ2 2VPZ7, 2FDW4	21U640	Grote	52772	**2CWC8**
Torsion Mount™ II	Red	—			21U640	Grote	52782	**2CWD1**
Stop/Turn/Tail Light	Red	4 5⁄16 in	2CWV5, 2CWY4, 2VPL3, 2VPK8, 2CWY6		21U640	Grote	53102	**2CWE4**
Economy	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7		21U640	Grote	52922	**2CWD6**
Economy	Red	5 ½ in	2CWZ9, 2VPN1	—	21U604	Grote	50232	**2CWA9**
Economy	Red	4 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVP1, 2VPZ6, 2VPZ2 2VPZ7, 2FDW4	21U640	Grote	53012	**2CWD9**

Oval Stop/Tail/Turn Lights

Description	Lens Color	Length	Width	Height	Pigtails	Brackets	Replacement Bulbs	Brand	Mfr. Model	Item No.
LED										
SuperNova®	Red	6 ½ in	⅞ in	2 ¼ in	2CWV5, 2CWY4, 2VPL3, 2VPK8, 2CWY6	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	—	Grote	53962	**2CWG3**
SuperNova®	Orange	6 ½ in	⅞ in	2 ¼ in			—	Grote	53963	**2CWG4**
Stop/Turn/Tail Light	Red	6 ½ in	½ in	5 3⁄16 in	—	—	—	Maxxima	M63350R	**31DG18**
Stop/Turn/Tail Light	Red	6 ⅜ in	1 ¾ in	2 ¼ in	3LXG3	3LXG7	—	Maxxima	M63100R	**3JYD4**
Stop/Turn/Tail Light	Red	7 13⁄16 in	13⁄16 in	3 3⁄16 in	—	—	—	Maxxima	M63320R	**49XE56**
Stop/Turn/Tail Light 6 Diode	Red	—	6 7⁄16 in	—	3LXG3	3LXG7	—	Maxxima	M63346R-KIT	**22N685**
Stop/Turn/Tail Light Hybrid S	Red	8 3⁄16 in	1 13⁄16 in	3 13⁄16 in		—	—	Maxxima	M85615R-KIT	**6FDY7**
Hybrid Series	Red, White	8 in	13⁄16 in	2 in			—	Maxxima	M85616R	**45KJ43**
Hi Count®	Red	6 ½ in	1 3⁄16 in	2 ⅛ in	2CWZ7	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	—	Grote	G6002	**2FEE2**
Grote Select™	Red	6 ½ in	1 ¼ in	2 5⁄16 in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7		—	Grote	54172	**2VPA3**
Incandescent										
Stop/Turn/Tail Light	Red	6 ¼ in	1 ½ in	2 ¼ in	2VPK9, 2CWX9, 2CWV3, 2CWV9, 2CWZ7	2CVN8, 2VNG9, 2CVN6, 2VNJ3, 11W442, 2FDX7, 2VPZ9	21U604	Grote	52892	**2CWD2**
Economy	Red	6 ½ in	1 ½ in	2 ¼ in			21U604	Grote	52182	**2CWB7**

5DFL9

11C539

11C542

11C546

31EW43

Portable Canopies, Shelters, and Tent

- UV blocking

CANOPIES (TOP AND FRAME)

Instant Canopies—Heights for skus 11C555, 11C554, and 22EC65 adjust in 3⅛" increments, up to 1 ft. Water, flame, and mildew resistant. Optional Side Wall Kits are sold separately. Optional Combination Door, Side Walls, and Floor Kit is available for skus 5NY99 and 11C555. Skus 5NY99 and 5DFL9 include roller bag and anchor kit. 5DFL9 has reflective tape located at key points for higher visibility in low-light conditions. Can be used as an emergency shelter. Optional Solid Wall Kit is sold separately.

Multiuse Canopies—Powder-coated steel frames. Optional Solid Wall Kits for skus 11C539 and 11C541 are sold separately. 11C543 has 8 legs and 2" dia., 20-ga. frame. 11C544 has 10 legs and 2" dia., 20-ga. frame.

Event Canopy—Easy-to-set-up canopy has 2" powder-coated steel frame. Includes 8 white leg covers, 8 foot pads, and elastic ball straps to secure the top/cover to the frame system.

SHELTERS (INCLUDE WALLS)

Peak-Top 11C547—Has a powder-coated steel frame. Includes roof cover, bungees, 6 foot pads, and 6 stakes.

Peak-Top 4XMA6—Features strong, commercial-grade aluminum frame with twist-lock button sliders that lock the frame in place. Includes a heavy-duty 500-denier polyester top and a double-handled roller bag for easy portability.

Peak-Top 11C540—Has a white drawstring cover, 8 legs, and a wall kit with 2 solid and zippered end walls and 2 sidewalls with screened windows. Zippered door is 7.5 ft. W x 6.5 ft. H.

Peak-Top, Heavy-Duty 11C542—8-leg A-frame design has interchangeable corner brackets. Features 4-pc. roof truss system that doubles the roof load capacity to a maximum of 3800 lb. Includes bungees, 8 foot pads, 8 stakes, and reinforced wire. Each of the 2 sidewalls contain 3 windows with roll-up window covers. Front and rear door walls have dual zippers and can be rolled up and secured with hook-and-loop straps. When side and end walls are not in use, 4 valances can be attached for a more decorative look.

Dome-Top 11C546—Sheds snow and has extra-long walls to protect vehicles and other contents year-round. Front wall has double-zippered, 6.5 ft. W x 6.5 ft. H door. Includes bungees, buckles, 4 brackets, and 8 stakes.

PARTY TENT

Spring-lock powder-coated steel tube frame is easy to assemble; adjustable feet let you set up on uneven ground. Front and back roll-up doors and zippered side doors provide easy access. Vented roof and roll-up windows permit free air circulation. Large windows let in plenty of light. Side wall can be raised to create more space or a sun block, using included 3-pc. side tubing, 3 ropes, and 3 helix pegs. Includes wheeled carry bag for easy transport.

SIDE WALL KITS

Attach to canopies to create shelters.

COMBINATION DOOR, SIDE WALLS, AND FLOOR KIT

Tub-style floor prevents water and pests from entering. Fast, easy clip system attaches to the inside top frame and legs of the canopy. Side walls have nylon zippered screen windows for ventilation. Cover of screened door can be rolled up for additional ventilation. Door features YBS zippers. Includes carrying bag and stakes.

Description	W	L	Center Height	Color	Item No.
Canopies (Top and Frame)					
Instant Canopies	10 ft	10 ft	7 ft to 8 ft	White	**5NY99** *
	9 ft 8 in	14 ft 4 in	10 ft 10 in	White	**11C555** *
	9 ft 8 in	19 ft 2 in	10 ft 10 in	White	**11C554** *
	11 ft	9 ft 8 in	10 ft 2 in to 11 ft 3 in	Hi-Vis Orange	**5DFL9** *
	11 ft 10 in	11 ft 10 in	8 ft 10 in to 9 ft 10 in	White	**22EC65**
Multiuse Canopies	10 ft 8 in	20 ft	9 ft 9 in	White	**11C539**
	10 ft 8 in	26 ft 7 in	9 ft 9 in	White	**11C541**
	18 ft	20 ft	11 ft 4 in	White	**11C543**
	18 ft	26 ft 7 in	11 ft 4 in	White	**11C544**
Event Canopy	18 ft	20 ft	11 ft 4 in	White	**11C545**
Shelters (Include Walls)					
Peak-Top Shelter	8 ft	12 ft	7 ft 8 in	Gray	**11C547**
	10 ft	9 ft 8.5 in	10 ft 4 in to 11 ft 5 in	White	**4XMA6**
	10 ft 8 in	20 ft	9 ft 9 in	White	**11C540**
Peak-Top, Heavy-Duty Shelter	10 ft 8 in	20 ft	10 ft	White	**11C542**
Dome-Top Shelter	10 ft	20 ft	8 ft	Gray	**11C546**
Party Tent					
Peak-Top Design with Awning	10 ft	20 ft	9 ft 2 in	White	**31EW43** *
Side Wall Kits					
For Use with No. 5NY99, Includes 2 Walls with Zipper				White	**22RP57**
				Orange	**22RP56**
For Use with No. 11C539, Includes 4 Walls				White	**11C548**
For Use with No. 11C541, Includes 4 Walls				White	**11C549**
For Use with No. 22EC65, Includes 1 Solid Wall and 1 Wall with Zipper				White	**22EC66**
Combination Door, Side Walls, and Floor Kit					
For Use With Nos. 5NY99 and 11C555				White Walls, Gray Floor	**11C553**
Canopy Accessories					
Rain Gutter Canopy Connector with Hook-and-Loop-Attachments, For Use with Nos. 5NY99, 11C555, and 11CC554				White	**11C557**
Shelter Accessory					
Anchor Kit with 50-ft. Rope and (8) 15" Screw-Type Anchors, For Use with Nos. 11C540 and 11C546				—	**11C552**
Universal Accessories					
Elastic Bungees, Holds Canopy to Frame, Pkg.of 50				White	**11C551**
Weight Bags, Hold up to 25-lb. Sand, Pkg. of 4				Black	**11C556**
Carrying Bag, 15"W x 80"L				Gray	**11C550**

** Meet CPAI-84 fire rating standards.*

Portable Gas and Diesel Generators

Dayton

- Electric-start models include dry battery
- 2-yr. warranty
- For outdoor use only
- CARB compliant

Maintenance-free, brushless alternator provides high-quality power (5 to 6% total harmonic distortion) and extended life. High amp surge capacity is ideal for starting high amp tools. Quiet muffler reduces engine noise. Low oil shut-off protection. All models except 2ZRP6 include wheel kits. Skus 2ZRP8, 2ZRP9, and 6FYA4 include hour meter and idle control. All models are CSA Listed.

Gasoline Engine 6FYA4

Diesel Engine 36C206

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ 1/2 Load	L	W	H	Item No.
Gasoline Honda Engine											
2,450 W	4,550 W	120V AC	20.4	Recoil	5-20R 120V AC 20A GFCI Duplex	2.6 gal	11.5 hr	25 in	18 in	18 in	**2ZRP6**
4,400 W	8,000 W	120/240V AC	41.7/20.8	Recoil	5-20R 120V AC 20A GFCI Duplex, L14-20R 120/240V AC 20A Locking, L5-30R 120V AC 30A Locking	5.7 gal	11.2 hr	29 in	19 3/4 in	22 1/2 in	**38AW97**
5,000 W	9,630 W	120/240V AC	41.7/20.8	Recoil	5-20R 120V AC 20A GFCI Duplex, L14-20R 120/240V AC 20A Locking, L5-30R 120V AC 30A Locking	7.3 gal	11.4 hr	29 in	32 in	28 in	**2ZRP8**
6,500 W	12,000 W	120/240V AC	54.2/27.1	Electric/ Recoil	5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking, L5-30R 120V AC 30A Locking	7.3 gal	11.4 hr	29 in	32 in	28 in	**2ZRP9**
12,000 W	19,600 W	120/240V AC	100/50	Electric	14-50R 120/240V AC 50A, 5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking, L5-30R 120V AC 30A Locking	13.2 gal	11.7 hr	31 1/2 in	30 1/2 in	37 1/2 in	**6FYA4**
Diesel Kohler Engine											
5,000 W	9,160 W	120/240V AC	50/25	Electric/ Recoil	5-20R 120V AC 20A GFCI Duplex, L14-20R 120/240V AC 20A Locking, L5-30R 120V AC 30A Locking	2.6 gal	12.8 hr	44 in	30 in	28 in	**36C206**

Economy Series 60NP39

Deluxe Series 60NP43

Industrial Series 60NP40

Portable Gas Generators

HONDA GENERATORS

- 3-yr. residential and commercial warranty
- For outdoor use only
- CARB compliant

Powerful commercial-grade OHV engine runs on regular gasoline—no need to mix with oil. Cast-iron cylinder sleeve for added engine durability. Oil Alert feature automatically shuts down engine if oil pressure reaches an unsafe level. 120/240V selector switch allows full generator wattage through the 120V outlets to power equipment requiring high initial startup. Full frame protection with isolation mounts for added durability. USDA-qualified spark arrestor/muffler.

Economy Series—Digital Automatic Voltage Regulator (DAVR) technology maintains voltage stability within ±1% to protect equipment being powered. All circuits have overload protection.

Deluxe Series—Voltage fluctuations are minimized by the iAVR power feature, which also allows high-amp-load starts with up to 10-sec. voltage increase above the maximum rating. Electric start (battery included) with recoil start backup. Include reinforced standing legs, lockable folding handles, and wheel kit.

Industrial Series—They feature an Eco Throttle technology to help increase fuel efficiency and boost run times, making units lighter while still able to produce the same power as most competitive models. iAVR power feature minimizes voltage fluctuations and increases voltage above the maximum rating for up to 10 sec.; allows starting of high-amp-load applications. Circuits are GFCI-protected. All include a 2-wheel kit to ease transport. Meet OSHA, CARB,and EPA Standards (except 60NP40 which meets OSHA Standards).

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ 1/2 Load	L	W	H	Item No.
Economy Series											
3,500 W	4,000 W	120/240V AC	29.2/14.6, 33.3/16.7	Recoil	125/250V AC 20A Locking, 125V AC 20A GFCI Duplex, 125V AC 30A Locking	6.3 gal	14.8 hr	26 3/4 in	20 7/8 in	22 1/2 in	**60NP39**
Deluxe Series											
4,500 W	7,000 W	120/240V AC	37.5/18.6	Electric/Recoil	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking	6.2 gal	10.5 hr	41 1/8 in	27 13/16 in	28 5/16 in	**60NP41**
5,500 W	7,000 W	120/240V AC	45.8/22.9	Electric/Recoil	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking	6.2 gal	9.8 hr	41 1/8 in	27 13/16 in	28 5/16 in	**60NP43**
Industrial Series											
4,500 W	5,000 W	120/240V AC	37.5/18.8, 41.7/20.8	Recoil	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking	6.2 gal	11.2 hr	41 7/8 in	27 3/16 in	29 3/16 in	**60NP40**
5,500 W	6,500 W	120/240V AC	45.8/22.9, 54.1/27.1	Recoil	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking	6.2 gal	9.8 hr	41 3/8 in	27 3/4 in	30 3/8 in	**60NP42**
9,000 W	10,000 W	120/240V AC	75/37.5, 83.8/41.6	Electric	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking, 125/250V AC 50A Locking	8.19 gal	7.9 hr	41 in	27 11/16 in	35 1/16 in	**60NP45**

Find information on Generator selection at Grainger.com®; search for "Generator".

GP Series
4FPU3

XD Series
39FY95

GENERAC

Portable Gas and Diesel Generators

- Electric-start models include battery (except XD Series)
- For outdoor use only

GP Series—All models offer circuit breaker-protected outlets and never-flat wheels. Low-tone mufflers for quiet operation. 2-yr. limited residential warranty, except 493T13 and 53PD02 that have a 3-yr. limited warranty. COsense® feature on the OHV engine shuts off and warns user when Carbon Monoxide builds up and low-oil level shutdown protects the engine. 4FPU2 and 4FPU3 feature idle control and include lifting eye and wheel kit.

XD Series—Yanmar LW Series direct-injection diesel engine is more-efficient than gasoline engines and offers long service life; low oil shutdown helps protect against dry-run damage. TruePower provides less than 6% total harmonic distortion for clean power. Durable welded steel frame has a lifting eye for easy transport. 2-year limited residential and commercial warranty.

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
GP Series - Gasoline											
5,500 W	6,875 W	120/240V AC	45.8/22.9	Recoil	5-20R 120V AC 20A Duplex, L14-30R 120/240V AC 30A Locking	7.2 gal	10.0 hr	27 ¼ in	27 in	25 in	**6FDK7**
6,500 W	8,125 W	120/240V AC	54.2/27.1	Recoil	5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking	7 gal	10.5 hr	27 3/16 in	27 in	26 ½ in	**493T13**
15,000 W	22,500 W	120/240V AC	125/62.5	Electric	12V DC 10A, 14-50R 120/240V AC 50A, 5-20R 120V AC 20A Duplex, 5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking, L5-30R 120V AC 30A Locking	16 gal	10.0 hr	48 ½ in	31 in	39 ½ in	**4FPU2**
17,500 W	26,250 W	120/240V AC	145.8/72.9	Electric	12V DC 10A, 14-50R 120/240V AC 50A, 5-20R 120V AC 20A Duplex, 5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking, L5-30R 120V AC 30A Locking	16 gal	10.0 hr	48 ½ in	31 in	39 ½ in	**4FPU3**
XD Series - Diesel											
5,000 W	5,500 W	120/240V AC	41.7/20.8	Electric/ Recoil	5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking, L5-30R 120V AC 30A Locking	12 gal	32.4 hr	33 1/16 in	22 ½ in	25 5/8 in	**39FY95** *

** CARB compliant.*

Standard Series
22CN79

Elite Series
6EDX6

BRIGGS & STRATTON

Portable Gas Generators

- Standard series: 2-yr. limited warranty
- Elite series: 3-yr. limited warranty
- For outdoor use only

Low-maintenance generators provide reliable, essential power. All models include Power Surg alternator, automatic voltage regulation, circuit breaker protected outlets, and super low-tone muffler. Wheels and fold-down handle for easy mobility. Oil for initial fill, electric start models include battery. 46C508 and 24W825 have RV outlet.

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
Standard Series											
3,500 W	4,375 W	120V AC	29	Recoil	5-20R 120V AC 20A Duplex, TT-30R 120V AC 30A	4 gal	8.0 hr	25 in	18 in	23"	**46C508**
3,500 W	4,375 W	120V AC	29	Recoil	5-20R 120V AC 20A Duplex, TT-30R 120V AC 30A	4 gal	8.0 hr	25 in	18 in	23"	**24W825** *
5,750 W	7,185 W	120/240V AC	45.8/22.9	Recoil	5-20R 120V AC 20A Duplex, 5-20R 120V AC 20A GFCI Duplex (4), L14-30R 120/240V AC 30A Locking	7.5 gal	11.5 hr	29 in	26 in	29"	**22CN79**
5,000 W	6,250 W	120/240V AC	41.6/21.0	Recoil	5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking	5 gal	11.0 hr	28 ¾ in	26 in	27"	**24W826** *
Elite Series											
7,000 W	8,750 W	120/240V AC	58.3/29.1	Electric/ Recoil	5-20R 120V AC 20A GFCI Duplex, L14-30R 120/240V AC 30A Locking	7.5 gal	9.0 hr	34 ¾ in	23 in	26¾"	**6EDX6**

**CARB compliant.*

Find information on Generator selection at Grainger.com®; search for "Generator".

HONDA GENERATORS

Portable Gas Inverter Generators

- CARB compliant
- Capable of parallel operations
- 3-yr. residential and commercial warranty, except 60NP32 has a 1-yr. commercial, 2-yr. residential warranty
- For outdoor use only
- Accessories available on Grainger.com

Super Quiet Series generators have a powerful commercial-grade OHV engine that runs on regular gasoline—no need to mix with oil. The Oil Alert feature automatically shuts down engine if oil pressure reaches an unsafe level. Eco-Throttle system increases fuel efficiency by allowing engine to run only as fast as needed for the load. Totally enclosed body helps reduce noise.

60NP33

60NP44

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
900 W	1,000 W	120V AC	8.3/7.5	Recoil	5-20R 120V AC 20A GCFI Duplex	0.55 gal	13.6 hr	17 ¾ in	9 ½ in	14 ⅞ in	**60NP32**
1,800 W	2,200 W	120V AC	18.3/15.0	Recoil	5-20R 120V AC 20A GCFI Duplex	0.95 gal	8.1 hr	20 in	11 ⅜ in	16 ¹¹⁄₁₆ in	**60NP33**
	2,200 W	120V AC	18.3/15.0	Recoil	125 V AC 20A, 125V AC 30A Locking	0.95 gal	16.2 hr	20 in	11 ⅜ in	16 ¹¹⁄₁₆ in	**60NP34**
	2,200 W	120V AC	18.3/15.0	Recoil	5-20R 120V AC 20A GCFI Duplex	0.95 gal	16.2 hr	20 in	11 ⅜ in	16 ¹¹⁄₁₆ in	**60NP35**
2,800 W	3,000 W	120V AC	25/23.3	Electric/Recoil	125V AC 20A Duplex, 125V AC 30A Locking	3.4 gal	39.2 hr	25 ⅞ in	17 ⁹⁄₁₆ in	22 in	**60NP38**
5,500 W	7,000 W	120/240V AC	45.8/22.9, 58.3/29.1	Electric/Recoil	125V AC 20A GFCI Duplex, 125/250V AC 30A Locking, 125V AC 30A Locking	5.1 gal	32.0 hr	47 ³⁄₁₆ in	27 ⁹⁄₁₆ in	28 ⅜ in	**60NP44**

Portable Gas Inverter Generators

GENERAC

- PowerDial control integrates Start, Run, and Stop functions
- All are CARB compliant, except 599D42
- 599D42 meets EPA standards
- Smart Parallel Kit available on Grainger.com

iQ Series Inverter Generator features a Smart LED dashboard that shows fuel level, remaining runtime, wattage usage, and generator status. Economy Mode operation saves fuel and reduces noise. **GP Series** Inverter Generators are perfect for all applications from job sites to tailgating. Lightweight for easy transportation. Idle control automatically adjusts engine speed to save fuel and reduce sound emissions. Integrated USB ports make charging mobile devices easy and LED indicators alert you of low oil, overload, and ready-to-use.

Use a Smart Parallel Kit (sold separately) to connect 2 generators directly through the 120V outlets for double the power.

iQ Series
491N31

GP Series
599D42

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Mfr. Model	Item No.
iQ Series												
3,000 W	3,500 W	120V AC	25	Electric/ Recoil	5-20R 120V AC 20A Duplex, L5-30R 120V AC 30A Locking	2.6 gal	9.0 hr	23 ¹¹⁄₁₆ in	18 in	22 in	7127	**491N31**
GP Series												
1,700 W	2,200 W	120V AC	14	Recoil	12V DC 5A, 5-20R 120V AC 20A Duplex	1.3 gal	5.7 hr	19 ¹¹⁄₁₆ in	11 ⁷⁄₃₂ in	17 ¹¹⁄₁₆ in	7117	**599D42**
2,300 W	3,000 W	120V AC	20	Recoil	5-20R 120V AC 20A Duplex, L5-30R 120V AC 30A Locking	1.1 gal	4.5 hr	22 ³⁄₁₆ in	13 ⁵⁄₁₆ in	18 ½ in	7129	**491N33**
3,000 W	3,500 W	120V AC	25	Recoil	5-20R 120V AC 20A Duplex, L5-30R 120V AC 30A Locking	2.5 gal	9.0 hr	19 ⁵⁄₁₆ in	16 ²⁹⁄₃₂ in	16 in	7128	**491N32**

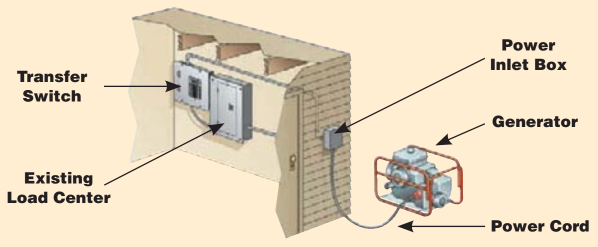
Portable Gas Inverter Generator

BRIGGS & STRATTON

- 2-yr. limited warranty
- Not CARB compliant

PowerSmart Inverter technology produces smoother, consistent, quiet power safe for sensitive electronics. USB port charges portable electronics. Parallel connector port connects 2 units together for more power. H-beam handle for easy 2 person lift and carry.

Rated Watts	Surge Watts	Voltage	Amps	Starter Type	Outlets	Fuel Tank Capacity	Generator Run Time @ ½ Load	L	W	H	Item No.
3,700 W	4,000 W	120V AC	30.4	Recoil	120V AC 30A, 120V AC 20A Duplex	3.5 gal	16.0 hr	24 ½ in	17 ⅝ in	20 in	**55ER64**



Portable Generator Accessory Installation Guide

To eliminate the risk of backfeeding the electrical utility during a power outage, isolate the circuits using generator power from the rest of the building. The National Electrical Code (NFPA 70, Article 702.6) mandates that a transfer switch be installed with all standby power systems, including portable generators. Select the circuits most needed during an outage and connect them to the transfer switch in combination with appropriate power inlet boxes and cords.

NOTE: Generac, Reliance, and Square D generator accessories, including transfer switches, power inlet boxes, cords, and panels are available on Grainger.com.

Bundled
49LX92

Unbundled
49LX83

GENERAC

Guardian Series Air-Cooled Automatic Standby Generators

- 5-yr. limited warranty, except 49LX85 has a 3-yr. limited warranty
- CARB compliant
- See Grainger.com for accessories

Aluminum enclosure protects against severe weather and corrosion. Fire rating allows for installation as close as 18" to building structures. Toolless fuel conversion provides easy switching between natural gas and LP fuels. New base eliminates sinking and allows unit to be placed directly on ground (increasing surface area by 9X). WiFi comes standard on all units for constant monitoring and instant response if service is needed. Bundled unit 49LX85 comes with a 50A, 8-circuit transfer switch. Bundled unit 55KE64 includes a 100A, 16-circuit transfer switch. Bundled unit 49LX92 comes with a 200A, whole house transfer switch. Unbundled unit 55KE62, 49LX83, and 411G60 do not include a transfer switch.

Note: Transfer Switches (RTS Series) are necessary for operation. For accessories, transfer switches, and larger QT Series Air-Cooled Automatic Standby Generators, see Grainger.com

						BUNDLED (Includes Transfer Switch)		UNBUNDLED	
kW	Voltage	Amps	L	W	H	Mfr. Model	Item No.	Mfr. Model	Item No.
7 LP/6 NG	120V AC/240V AC	31.3/25.0	36 in	27 in	35 in	6998	**49LX85**	—	—
10 LP/9 NG	120V AC/240V AC	45.0	48 in	25 in	29 in	7172	**55KE64**	7171	**55KE62**
20 LP/17 NG	120V AC/208V AC	80.0	48 ½ in	25 ½ in	28 ⅝ in	—	—	7077	**411G60**
22 LP/19 NG	120V AC/240V AC	91.7/81.3	48 in	25 in	44 in	7043	**49LX92**	7042	**49LX83**

20YR52

38NF74

Pro TIP

Generator Sizing Guidelines

To start an electric motor, a generator requires **2 to 3 times** its nameplate amperage or wattage. If the electrical current demand on the generator is of long duration, **the system can overload.** As a preventative measure, **there are five steps to selecting the right size generator:**

1. Calculate total wattages of all appliances to be operated at once
2. Determine volt-amperes (wattage) requirement of motor
3. Find total watts and VA to get total requirements
4. To allow for anticipated future needs, add 25% to Step 3 total
5. Refer to data charts for the unit that meets your total load criteria

For further details read the full article, "Generator Sizing Guidelines" at **grainger.com/generator-sizing**

GENERAC

Protector Series Liquid-Cooled Automatic Standby Generators

Quiet-running generators with aluminum housing feature improved water ingress protection and electric connections to stand up to severe weather conditions. Options for additional features help address individual applications, such as advanced controls for instant monitoring. Include oil drain extension, radiator drain extension, battery charge alternator, flex fuel line, and fan/belt guards.

Note: Transfer Switches (RTS Series) are necessary for operation. For accessories, transfer switches, and larger QT Series Liquid-Cooled Automatic Standby Generators, see Grainger.com

					120/240VAC Single-PHASE				120/240VAC Three-PHASE				120/208VAC Three-PHASE				277/480VAC Three-PHASE			
kW	L	W	H	CARB Compliant	Mfr. Model	Amps	Item No.		Mfr. Model	Amps	Item No.		Mfr. Model	Amps	Item No.		Mfr. Model	Amps	Item No.	
Diesel																				
15	81 in	31 in	50 in	Yes	RD01525ADAE	62.0	**20YR51**	—	RD01525JDAE	45.0	**32PL10**	—	RG01525GDAE	52.0	**32PL09**	—	—	—	—	—
20	81 in	31 in	50 in	Yes	RD02025ADAE	83.0	**20YR52**	—	RD02025JDAE	60.0	**32PL12**	—	RD02025GDAE	69.0	**32PL11**	—	—	—	—	—
30	96 in	35 in	56 in	Yes	RD03022ADAE	125.0	**20YR53**	—	RD03022JDAE	90.0	**32PL14**	—	RD03022GDAE	104.0	**32PL13**	—	RD03022KDAE	45.0	**32PL15**	—
48	96 in	35 in	56 in	Yes	RD04833ADAE	200.0	**32PL16**	—	—	—	—	—	—	—	—	—	—	—	—	—
50	96 in	35 in	56 in	Yes	—	—	—	—	RD05033JDAE	150.0	**32PL17**	—	RD05033GDAE	173.0	**20YR54**	—	RD05033KDAE	75.0	**32PL18**	—
Liquid Propane																				
60	76 15/16 in	33 ½ in	40 ⅝ in	No	RG06024AVAX	250.0	**38XD87**	—	RG06024JVAX	180.0	**38NG45**	—	RG06024GVAX	208.0	**38NG41**	—	RG06024KVAX	90.0	**38NG49**	—
Liquid Propane/Natural Gas																				
22 LP/22 NG	62 15/16 in	29 in	29 11/16 in	No	RG02224ANAX	92.0	**38NF73**	*	RG02224JNAX	66.0	**38NF75**	*	RG02224GNAX	76.0	**38NF74**	*	—	—	—	—
25 LP/25 NG	62 15/16 in	29 in	29 11/16 in	No	RG02515ANAX	104.0	**38NF76**	*	RG02515JNAX	75.0	**38NF80**	*	RG02515GNAX	87.0	**38NF78**	*	—	—	—	—
27 LP/25 NG	62 15/16 in	29 in	29 11/16 in	No	—	—	—	—	RG02724JNAX	81.0	**38NF84**	*	RG02724GNAX	94.0	**38NF83**	*	—	—	—	—
30 LP/30 NG	62 15/16 in	29 in	29 11/16 in	No	RG03015ANAX	125.0	**38NF85**	*	RG03015JNAX	90.0	**38NF89**	*	RG03015GNAX	104.0	**38NF87**	*	—	—	—	—
32 LP/32 NG	76 15/16 in	33 ½ in	40 ⅝ in	No	RG03224ANAX	133.0	**38NF91**	*	RG03224JNAX	96.0	**38NF93**	*	RG03224GNAX	111.0	**38NF92**	*	RG03224KNAX	48.0	**38NF94**	*
36 LP/36 NG	76 15/16 in	33 ½ in	40 ⅝ in	No	RG03624ANAX	150.0	**38NF95**	*	RG03624JNAX	125.0	**38XD89**	—	RG03624GNAX	125.0	**38NF97**	*	RG03624KNAX	125.0	**38XD88**	—
38 LP/38 NG	76 15/16 in	33 ½ in	40 ⅝ in	No	RG03824ANAX	158.0	**38NG02**	*	RG03824JNAX	114.0	**38NG04**	*	RG03824GNAX	132.0	**38NG03**	*	RG03824KNAX	57.0	**38NG05**	*
45 LP/45 NG	76 15/16 in	33 ½ in	40 ⅝ in	No	RG04524ANAX	148.0	**38NG06**	*	RG04524JNAX	135.0	**38NG14**	*	RG04524GNAX	156.0	**38NG10**	*	RG04524KNAX	68.0	**38NG18**	*
45 LP/45 NG	76 15/16 in	33 ½ in	40 ⅝ in	Yes	—	—	—	—	RG04524JNAC	135.0	**38NG15**	*	RG04524GNAC	156.0	**38NG11**	*	RG04524KNAC	68.0	**38NG19**	*
Natural Gas																				
48	76 15/16 in	33 ½ in	40 ⅝ in	Yes	RG04845ANAC	200.0	**38NG23**	—	RG04845JNAC	150.0	**38NG31**	—	RG04845GNAC	173.0	**38NG27**	—	RG04845KNAC	75.0	**38NG35**	—
48	76 15/16 in	33 ½ in	40 ⅝ in	No	RG04845ANAX	200.0	**38NG22**	—	RG04845JNAX	150.0	**38NG30**	—	RG04845GNAX	173.0	**38NG26**	—	RG04845KNAX	75.0	**38NG34**	—
60	76 15/16 in	33 ½ in	40 ⅝ in	No	RG06024ANAX	250.0	**38NG37**	—	RG06024JNAX	180.0	**38NG43**	—	RG06024GNAX	208.0	**38NG39**	—	RG06024KNAX	90.0	**38NG47**	—

**** Field convertible to LP.***

XR550 Professional Series 12V872

Gasoline Engines

BRIGGS&STRATTON

Rotation is CCW. Mixer engine 12V818 features internal gear box with 6:1 reduction. For outdoor use only; not designed for recreational vehicle use.

XR550 Professional Series—Dura-Bore cast-iron sleeve withstands wear and abuse. 12V872 is 4000 rpm; 12V817 is 3600 rpm; and 12V818 is 3600 rpm.

900 Series—OHV design with Dura-Bore cast-iron sleeve and Dual-Clean air cleaner. 3800 rpm.

CR950 Series—Features reliable performance with cast-iron Dura-Bore sleeve, Magnetron Electronic Ignition, and dual ball bearing. 3300 rpm.

XR1450 Professional Series—Provides high performance and extended durability with OHV design and Dura-Bore cast-iron sleeve. 3750 rpm.

XR2100 Professional Series—3600 rpm engine designed for frequent use in demanding work environments. Features 21 gross torque (ft.-lb.), cast-iron sleeve, and pleated paper air filter. 3600 rpm.

725EXi Series—Walk-behind mower engine allows you to never change the oil. Just check oil and add. Features larger angled fuel neck and tool-less access to air cleaner for easy maintenance. ReadyStart starting system requires no prime and no choke. 3200 rpm.

Commercial V-Twin Series—5-step debris management system has chopping fan shreds debris and reduces oil temperature. Features oil pump, cast-iron sleeve, electronic ignition, cyclonic air filter, OHV design, and automotive-style starting with EFM. 27.0 gross HP, 3600 rpm.

Vanguard Vertical Series—Features float feed carburetor, Dual-Clean air cleaner, and Dura-Bore cast-iron cylinder sleeve. 18.0 gross HP, 3600 rpm.

Gross Torque	Shaft Length	Shaft Dia.	Mfr. Model	Item No.
Horizontal				
900 Series				
9.5 lb-ft	2 27/64 in	5/8 in	130G32-0244-F1	**55EP70**
CR950 Series				
9.5 lb-ft	2 27/64 in	3/4 in	13R232-0001-F1	**52YX57**
Vanguard Vertical Series				
11.5	2 29/32 in	1 in	356447-0080-G1	**56MC28**
XR1450 Professional Series				
14.5 lb-ft	3 31/64 in	1 in	19N132-0035-F1	**35ZD40**
14.5 lb-ft	2 ½ in	3/4 in	19N132-0051-F1	**35ZD38**
14.5 lb-ft	2 49/64 in	1 in	19N132-0055-F1	**35ZD39**
XR2100 Professional Series				
21.0 lb-ft	3 31/64 in	1 in	25T237-0045-F1	**35ZD41**
XR550 Professional Series				
5.5 lb-ft	2 27/64 in	5/8 in	083132-1036-F1	**12V872**
5.5 lb-ft	2 27/64 in	3/4 in	083132-1035-F1	**12V817**
5.5 lb-ft	1 13/16 in	3/4 in	083152-1049-F1	**12V818** *
Vertical				
725EXi Series				
7.3 lb-ft	3 5/32 in	7/8 in	104M02-0197-F1	**52YX58**
Commercial V-Twin Series				
39.4 lb-ft	4 19/64 in	1⅛ in	49T877-0004-G1	**20KC43**
Vanguard Vertical Series				
28.6 lb-ft	3 5/32 in	1 in	356776-0013-G1	**1TKD8**

** For use in mixer applications.*

KOHLER®

Gasoline and Diesel Engines

Command PRO 6VMW2

For outdoor use only; not designed for recreational vehicle use.

COURAGE UTILITY GASOLINE ENGINE
- CARB compliant

Single-cylinder OHV model with cast-iron cylinder liner and in-line fuel filter. Engine oil can be added or drained from either side of the engine. 3600 rpm.

COMMAND PRO GASOLINE ENGINES

Feature electronic ignition, hardened crankshaft journals, and a self-relieving choke carburetor. EPA compliant.

6.6 to 7.7 Gross Torque—4-cycle, OHV engine. Cast-iron cylinder liner, aluminum block. 3600 rpm. Pleated paper encased filter with perforated metal/foam precleaner.

9.2 to 20.4 Gross Torque—Single cylinder, OHV engine. 16X887, 11M961, 11M962, and 11M963 are 4000 rpm. 11Z373 and 6VMW2 are 3600 rpm. All have low-oil shutdown feature. Pleated paper encased filter with perforated metal/foam precleaner.
- CARB compliant

27.7 to 51.1 Gross Torque—V-twin cylinder, OHV engine. 3600 rpm. Dual-element air filter, except 24TM20 and 24TM21 have heavy-duty canister-style filters.

DIESEL FOUR-STROKE ENGINE
- Tier 4

Features direct fuel injection, fuel filter, full-pressure lubrication, and a reborable cast-iron cylinder liner. Offers a single cylinder with an internal oil filter, electronic shutdown fuel valve, control panel, and counterbalanced crankshaft. 3600 rpm.

Shaft Orientation	Gross Torque	Shaft Length	Shaft Dia.	Starter Type	Mfr. Model	Item No.
Gasoline Engines						
Courage Utility						
Horizontal	9.5	2 27/64 in"	3/4"	Recoil	PA-SH265-3011	**11K737**
Command PRO 6.6 to 7.7 Gross Torque						
Horizontal	6.6	2 21/50 in"	0.75"	Recoil	PA-CH245-3152	**404M80**
Horizontal	7.7 lb-ft	2 21/50 in"	0.75"	Recoil/Electric	PA-CH255-3031	**404M81**
Horizontal	7.7 lb-ft	2 21/50 in"	0.75"	Recoil	PA-CH255-3152	**404M82**
Command PRO 9.2 to 20.4 Gross Torque						
Horizontal	9.2	2 27/64 in"	3/4"	Recoil	PA-CH270-3152	**16X887**
Horizontal	9.2	2 27/64 in"	3/4"	Recoil/Electric	PA-CH270-3031	**11M961**
Horizontal	12.5	3 ½ in"	1.00"	Recoil	PA-CH395-3149	**11M962**
Horizontal	12.5	3 ½ in"	1.00"	Recoil/Electric	PA-CH395-3031	**11M963**
Horizontal	20.4	3 ½ in"	1.00"	Recoil	PA-CH440-3149	**11Z373**
Horizontal	20.4	3 ½ in"	1.00"	Recoil/Electric	PA-CH440-3031	**6VMW2**
Command PRO 27.7 to 51.1 Gross Torque						
Horizontal	27.7	4 in"	1⅛"	Electric	PA-CH620-3100	**24TM15**
Horizontal	29.9	1 29/64 in"	1 7/16"	Electric	PA-CH640-3202	**24TM16**
Horizontal	32.8	4 29/64 in"	1 7/16"	Electric	PA-CH680-3135	**24TM17**
Horizontal	36.5	4 29/64 in"	1 7/16"	Electric	PA-CH742-3100	**24TM20**
Vertical	36.5	3 5/32 in"	1⅛"	Electric	PA-CV740-3001	**24TM18**
Horizontal	51.1	4 29/64 in"	1 7/16"	Electric	PA-CH980-3000	**24TM21**
Diesel Four-Stroke Engine						
Horizontal	13.3	3 ⅝ in"	1.00"	Recoil/Electric	PA-KD4402001B	**11K750**

HONDA ENGINES

GX Series Gasoline Engines

270cc 23PF68

- Horizontal shaft
- Dual-element air cleaner
- CARB compliant
- 3-yr. warranty

Overhead Valve (OHV) commercial-grade engines offer greater fuel efficiency, automatic mechanical decompression system, and precise intake and exhaust control to ensure fast and reliable starts. Ball bearing-supported crank shaft and cast-iron cylinder sleeve provide greater durability and long life. Oil alert system helps prevent engine damage due to inadequate oil. 23PF75 features a Cyclone Air Cleaner system that decreases the service intervals for air filter maintenance.

Starter Type	Shaft Length	Shaft Dia.	Mfr. Model	Item No.
118cc				
Recoil	2 43/100 in"	3/4"	GX120QX2	**23PF63**
163cc				
Recoil	2 43/100 in"	3/4"	GX160QX2	**23PF64**
Recoil	2 43/100 in"	5/8 in x 18" UNF	GX160TX2	**23PF66**
Electric	2 43/100 in"	3/4"	GX160QXE2	**23PF65**
196cc				
Recoil	2 43/100 in"	3/4"	GX200QX2	**23PF67**
270cc				
Recoil	3 12/25 in"	1.0"	GX270QA2	**23PF68**
Electric	3 12/25 in"	1.0"	GX270QAE2	**23PF69**
389cc				
Recoil	3 12/25 in"	1.0"	GX390QA2	**23PF72**
Recoil	3 12/25 in"	1.0"	GX390QXC9	**23PF75**
Electric	3 12/25 in"	1.0"	GX340QAE2	**23PF71**
Electric	3 12/25 in"	1.0"	GX390QAE2	**23PF73**
Electric	3 12/25 in"	1.0"	GX390QNE2	**23PF74**

55MJ67

Commercial-Duty Zero-Turn Mowers

ARIENS

ZERO-TURN MOWERS

A wide cutting width and high-performance engines propel these mowers to finish large jobs quickly. Fully welded steel frames with side discharge.

Edge—This mower has a 660cc Kohler 6000 series engine and foot-operated deck lift. Features durable 34" stamped deck constructed of 12-gauge steel. High-back seat with springs with sealed ball bearings.

IKON XD—Commercial-grade mower has fully fabricated and foot-operated welded deck. Features 726 cc Kawasaki FR691 engine. Hydro-Gear EZT transaxles offer increased torque and load capacity. Two independent steering levers for easy manuverability. Padded high-back seat with arm rests and large tires. Dial-operated cut height with 13 cutting positions.

HP	Cutting Width	Cutting Height	Max. Speed	Item No.
Zero Turn Mowers				
Edge				
19 hp	34 in	1½ in to 4½ in	3 mph (Reverse), 6 mph (Forward)	**55MJ67**
19 hp	42 in	1½ in to 4½ in	3 mph (Reverse), 6 mph (Forward)	**55MJ68**
IKON HD				
23 hp	52 in	1½ in to 4½ in	3 mph (Reverse), 7 mph (Forward)	**55MJ70**

49AY33

DEWALT EGO greenworks ECHO

Battery-Powered Walk-Behind Mowers

- Lithium-Ion battery

EGO—Rechargeable electric mowers give you the power of a gas engine, without the noise or fumes of gasoline, and with the freedom of movement of cordless. 45-min. of cutting time on a single charge. LED headlights let you mow any time of day. Easy push-button starting. Folds flat for easy cleaning and storage.

Greenworks Pro—Designed with Smart Cut technology to improve performance and extend run time. Digitally controlled brushless motor provides greater efficiency and higher performance.

Cutting Width	Cutting Height	Drive Type	Battery Voltage	Discharge	Handle	Includes	Brand	Item No.
Walk-Behind Mowers								
20 in	1½ in to 3 13/32 in	Push	20	Mulch, Side or Bag	Adjustable	(2) Batteries, Bag, Mulch Plug, Safety Key	DeWalt	**462P34**
21 in	1½ in to 4 in	Push	56	Rear or Bag, Side	Adjustable	Mulch Plug, Side Discharge Chute and Bag	EGO	**49AY33**
21 in	1½ in to 4 in	Push	56	Rear or Bag, Side	Adjustable	Bag, Battery, Mulching Insert, Rapid Charger, Side Discharge Chute	EGO	**49AY35**
21 in	¾ in to 4 in	Push	58	Mulch, Side or Bag	Adjustable	4Ah Battery, Bag Mulch Plate, Charger	Echo	**492R62**
21 in	1⅜ in to 3¾ in	Push	80	Mulch, Side or Bag	Adjustable	(2) 2.0Ah Lithium-Ion Batteries, 80V, Bag, Mulch Plug, Rapid Charger, Side Discharge Chute	Greenworks Pro	**52KD50**
21 in	1⅜ in to 3¾ in	Push	80	Mulch, Side or Bag	Fixed	Battery, Mulch Plug, Rear Discharge Bag, Side Discharge Chute	Greenworks Pro	**446N36**
21 in	1½ in to 4 in	Self-Propelled	56	Rear or Bag, Side	Adjustable	7.5Ah Battery and 550W Charger, Bag, Mulch Plug, Side Discharge Chute	EGO	**49AY36**
21 in	1½ in to 4 in	Self-Propelled	56	Rear or Bag, Side	Adjustable	Mulch Plug, Side Discharge Chute and Bag	EGO	**49AY34**
21 in	¾ in to 4 in	Self-Propelled	58	Mulch, Side or Bag	Adjustable	Bag Mulch Plate	Echo	**492R56**

Description	Battery Chemistry	Battery Capacity	Brand	Item No.
EGO Power Plus Accessories				
Power+ Series, 56V, 7.5Ah Li-Ion Battery	Li-Ion	7.5 Ah	EGO	**54YP23**
Rapid Charger	—	2 Ah, 4 Ah, 5 Ah, 7.5 Ah	EGO	**38ZE14**
Charger	—	2 Ah, 2.5 Ah, 4 Ah, 5 Ah, 7.5 Ah	EGO	**38ZE12**

49U931

Walk-Behind Mowers

HONDA Power Equipment

Mulching discharge option leaves fine clippings on the lawn to retain moisture and provide nutrients while reducing removal time and expense.

MicroCut twin-blade system uses 4 cutting surfaces to make ultrafine clippings for superior mulching and bagging. Offers 8 mowing heights. Roto-Stop blade stop lets you step away from the mower to empty the bag or clear items out of the way without stopping and restarting the engine.

Self-propelled, hydrostatic cruise control transmission offers precise speed control from 2 to 4 mph, to change and maintain the right speed for mowing conditions. Rugged, 16-ga. heavy-duty steel deck with front bumper and edge guards.

Cutting Width	Cutting Height	Drive Type	Engine	Displacement	Discharge	Handle	Includes	Item No.
21 in	¾ in to 4 in	Self-Propelled	Honda GXV160	160 cc	Bag	Fixed	Bag, Bag Frame, Owner Manual	**49U931**

Battery-Powered String Trimmers

These powerful trimmers help you make short work of thick brush, without the noise, fumes, or expense of gas-powered models. Include 0.08"-dia. cutting line, but can be used with larger diameter line, as well. Line length can be easily adjusted via an integral bump feed. Higher amperage provides longer run times.

Note: For accessories including Batteries, Charger, Trimmer Spools, Trimmer Strap, and Trimmer Lines, see Grainger.com.

53JH20

60YT12

Cutting Width	Shaft Length	Shaft Type	Line Dia.	Battery Voltage	Charge Time	Includes	Brand	Item No.
Cordless String Trimmers								
10¼ in	48½ in to 56½ in	Telescoping	0.065 in	18	1.5 hr	Nylon Cord, Trimmer Head	Makita	**52AZ29**
11¾ in	59½ in to 63½ in	Curved	0.08 in	18	40 min	Shoulder Strap	Makita	**54XJ49**
15 in	45 in	Straight	0.08 in	60	2.5 hr	Auxiliary Handle, Battery, Charger, Guard	DeWalt	**53JH20**
15 in	45 in	Straight	0.08 in	60	2.5 hr	—	DeWalt	**458P06**
15 in	54 in	Straight	0.095 in	56	40 min	210W Charger, 5.0Ah Battery	EGO	**453F06**
16 in	60 in	Straight	0.08 in	18	60 min	Bare Tool Only	Milwaukee	**60YT11**
16 in	60 in	Straight	0.08 in	18	60 min	(1) XC6.0Ah Battery, (1) M18 & M12 Charger	Milwaukee	**60YT12**
Cordless String Trimmer/Edger Kit								
15 in	48 in	Straight	0.095 in	56	30 min to 1 hr	(2) Cotter Pin, Battery, Charger, Hex Wrench, Multi-Function Wrench	EGO	**413J87**

Battery Chemistry	Battery Capacity	Includes	Brand	Item No.
EGO Power Plus Battery				
Li-Ion	28 Ah	Harness	EGO	**54YP09**

44X194

447P85

13L116

Gas-Powered String Trimmers

Note: For additional accessories including Trimmer Lines, Trimmer Heads, and Blade Conversion Kit, see Grainger.com.

ECHO—Models feature easy-to-use ergonomic controls, powerful 2-stroke engines, i-30 starting system, digital ignition, and purge bulb. Toolless air filter cover. Ergonomic, adjustable U-handle helps increase operator comfort and control.

Makita—Features 4-stroke, multiposition engine. Dual-stage air filter is replaceable and easy to access. Antivibration handle and bump-feed head. 13L116 has a fast-turning head, and 49U821 has a high-torque gear case designed to handle heavy grasses.

Engine Displacement	Shaft Type	Shaft Length	Cutting Width	Line Dia.	Mfr. Model	Item No.	
ECHO							
21.2cc	Curved	48 in	16 in	0.08 in	GT-225	**44X194**	
21.2cc	Straight	59 in	17 in	0.095 in	SRM-225	**44X198**	*
25.4cc	Straight	59 in	17 in	0.095 in	SRM-2620T	**425W12**	
25.4cc	Straight	59 in	17 in	0.095 in	SRM-266	**447P85**	
Makita							
25.4cc	Straight	57 in	17 in	0.095 in	EM2650LH	**13L116**	*
25.4cc	Straight	57 in	17 in	0.095 in	EM2652LHN	**49U821**	

Feature Antivibration Handle.

447P92

13L117

5NLJ8

Gas-Powered Brush Cutters and Mowers

Note: For accessories including Brush Blades and Trimmer Line, see Grainger.com.

HANDHELD

Makita—Features a fuel-efficient engine with automatic decompression for quick-and-easy starting. Oil fill port and drain plug are easy to access. Includes shoulder harness and brush cutter blade.

ECHO—Each brush cutter has bicycle-style "U" handle for control and easy access to the throttle and stop switch. Commercial-grade cutting heads with blade conversion kits, making them blade convertible. 447P92 features Speed-Feed cutting heads and flex cable drive shafts, is extremely lightweight and has a toolless adjusting U-handle that folds for storage. Brush blades sold separately for both mowers.

WALK BEHIND

Billy Goat—Cuts through weeds over 6 ft. tall, as well as saplings. Features 3-speed transaxle with reverse, reinforced blade spindle, and protected rear-mounted clutch and steel plow-style handles. Angled rear discharge deck eliminates packing and wind rows.

Description	Cutting Width	Engine	Engine Displacement	Brand	Item No.
Handheld					
Brush Cutter	9 in	4 Cycle	25.4cc	Makita	**13L117**
Brush Cutter	10 in	2 Stroke	42.7cc	Echo	**44X145**
Brush Cutter	17 in	ECHO	25.4 cc	Echo	**447P92**
Walk Behind, Self-Propelled					
Brush Cutter	26 in	Honda GXV	390 cc	Billy Goat	**5NLJ8**

Scan. Order. Done.
Details on page A1.

425W09

6MYC0

Gas-Powered Blowers

ECHO—Feature rotational control to help reduce operator fatigue. 44X133 has rubber top-handle grip with secondary handles for all-position operation and flared-end pipe for moving heavy or wet debris. 425W09 has a curved blower tube and shoulder harness attachment that helps reduce user fatigue. Easy access variable cruise control button located on curved handle. 44X141 is a combination blower, shredder/mulcher, and vacuum. 4-blade shredding mechanism provides 12:1 debris reduction. Includes 35"L intake tube for longer reach and zippered collection bag. 44X133 and 44X141 are CARB and EPA compliant. 425W09 is CARB compliant.

Makita—Compact and lightweight model features a commercial-duty engine with variable speed control. Fuel system oil mix to gasoline is not required. Automatic engine decompression allows quicker and easier starts.

Description	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
ECHO					
Blower, 2-Stroke, 25.4cc	354 cfm	191 mph	64 dBA	PB-255LN	**44X133**
	453 cfm	170 mph	69.3 dBA	PB-2520AA	**425W09**
Blower/Mulcher, 2-Stroke, 25.4cc	391 cfm	165 mph	70 dBA	ES-250AA	**44X141**
Makita					
Blower, 4-Stroke, 24.5cc	356 cfm	145 mph	67 dBA	BHX2500CA	**6MYC0**

44X139

493W70

52WT54

446N33

Gas- and Battery-Powered Backpack Blowers

ECHO—Engines offer cruise control. Blowers allow wide-angle tube rotation for optimum mobility. Padded backrest and shoulder straps help minimize fatigue. L-style frame helps reduce impact damage, and Posi-loc tubes provide a secure connection. 44X139 has a vented back pad that allows air circulation in hot weather.

Makita—Commercial-duty engine has decompression system for easy starts. Fuel system does not require oil to be mixed to gasoline. Compact, lightweight blower comes with adjustable joy-stick handle, wide backpack straps, and ventilated back panel. CARB Tier III and EPA Phase II compliant.

EGO—Quiet, lightweight Power Plus backpack blower has a powerful turbine fan for heavy debris-clearing power. Variable speed control and high-efficiency, brushless motor.

Greenworks—Handheld blower creates high-velocity air speeds that handle tough tasks like clearing wet, heavy leaves, grass, and stubborn debris. Designed with a brushless motor that provides power and performance. Additional features include trigger starting, variable-speed control, turbo button and cruise control. Includes battery.

Description	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
ECHO Gas Powered					
Tube Mounted Throttle					
2 Stroke, 58.2 cc	510 cfm	215 mph	70 dBA	PB-580TAA	**40JW43**
2 Stroke, 63.3 cc	535 cfm	215 mph	65 dBA	PB-760LNH	**52DD74**
2 Stroke, 63.3 cc	651 cfm	233 mph	74 dBA	PB-755ST	**44X137**
2 Stroke, 63.3 cc	765 cfm	234 mph	73 dBA	PB-770T	**44X139**
2 Stroke, 80 cc	1,071 cfm	210 mph	80 dBA	PB-9010H	**493X88**
Hip Mounted Throttle					
2 Stroke, 58.2 cc	510 cfm	215 mph	70 dBA	PB-580H	**52DD60**
2 Stroke, 63.3 cc	756 cfm	234 mph	73 dBA	PB-770H	**52DD58**
2 Stroke, 80 cc	1,071 cfm	210 mph	80 dBA	PB-9010T	**493X87**
Makita Gas Powered					
Tube Mounted Throttle					
4 Stroke, 75.6 cc	706 cfm	206 mph	76 dBA	EB7660TH	**493W70**
EGO 56 V Lithium-Ion					
Tube Mounted Throttle					
Bare Tool	600 cfm	145 mph	64 dBA	LB6000	**52WT54**
5.0Ah Battery, Standard Charger	600 cfm	145 mph	64 dBA	LB6002	**52WT55**
7.5Ah Battery, Fuel Gauge, Standard Charger	600 cfm	145 mph	64 dBA	LB6003	**55ET25**
Greenworks 80 V Lithium-Ion					
2.5Ah Battery, Standard Charger	580 cfm	145 mph	64.7 dBA	BPB80L2510	**446N33**

20X615

49AY37

53JH19

44YV60

Handheld Electric- and Battery-Powered Blowers

Westward Electric-Powered—Lightweight 2-speed blower/vac includes High/Low control switch and collection bag.

Makita Battery-Powered—Quieter than gas-powered blowers have zero emissions. Lightweight design provides 30 min. of continuous run time on a single charge. Kit 52YW72 includes 36V Li-ion battery and charger. Charger actively monitors current, voltage, and temperature throughout charging process to optimize battery life.

EGO Power Plus—Rechargeable blowers have a convenient, cordless design with the power to match or exceed the performance of many premium gas-powered models. Quiet operation allows use in areas with noise restrictions. Provides 1 hr. of run time on a single charge. Weather-resistant construction. Extra batteries and chargers sold separately; higher-amperage batteries provide longer run times.

DeWalt—Quiet, powerful, battery-operated blowers give you simple variable-speed operation. Ergonomically designed handles with trigger and speed control.

Includes	Battery Voltage	Max. Air Flow	Max. Air Speed	dBA	Mfr. Model	Item No.
Westward Electric Blower						
Bare Tool, Vacuum Bag	120 V	370 cfm	210 mph	90 dBA	20X615	**20X615**
Makita Lithium-Ion						
Bare Tool	36 V	473 cfm	120 mph	61 dBA	XBU02Z	**44YV60**
(2) Batteries, Charger	36 V	473 cfm	120 mph	61 dBA	XBU02PT	**52YW72**
EGO Power Plus Lithium-Ion						
Battery, Charger	56 V	530 cfm	110 mph	65 dBA	LB5302	**49AY38**
Bare Tool, Battery	56 V	480 cfm	92 mph	64 dBA	LB4800	**453D97**
Bare Tool	56 V	530 cfm	110 mph	65 dBA	LB5300	**49AY37**
DeWalt Lithium-Ion						
Battery, Charger, Standard Nozzle, Flat Concentrator Nozzle	60 V	423 cfm	125 mph	67 dBA	DCBL770X1	**53JH19**
Bare Tool, Standard Nozzle, Flat Concentrator Nozzle	60 V	423 cfm	125 mph	67 dBA	DCBL770B	**458P05**
Bare Tool, Concentrator Nozzle	20 V	450 cfm	125 mph	66 dBA	DCBL722B	**56DK71**
Battery, Blower Nozzle, Charger	20 V	100 cfm	135 mph	—	DCE100M1	**39RV82**

Description	Mfr. Model	Item No.
DeWalt Accessories		
XR Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
40V MAX Series Li-Ion Battery, 40V, 6.0Ah	DCB406	**40CA30**
40V Charger	DCB114	**40CA31**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
Power+ Series, 56V, 7.5Ah Li-Ion Battery	BA4200T	**54YP23**
Charger	CH2100	**38ZE12**
Makita Accessories		
LXT Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT Battery Charger	DC18RC	**4NNN4**

Walk-Behind Blowers

5NLF8

Rolling blowers ease leaf, debris, and litter removal, as well as pavement surface preparation. An innovative aim and shoot feature allows fingertip airflow direction control. Lightweight rust- and dent-resistant composite housing has smooth, rounded edges for maximum performance and low noise.

Description	HP	Max. Air Flow	Max. Air Speed	Mfr. Model	Item No.
Walk-Behind Blowers					
Subaru Gas Engine	6 hp	1,090 cfm	200 mph	F602V	**5NLF8**
Honda OHV Gas Engine	13 hp	2,600 cfm	200 mph	F1302H	**6TFH5**
Blower Accessories					
Hose Kit, For Use with 5NLF8				441166	**5NLG1**
Forward Discharge Elbow, For Use with 5NLF8				441130	**5NLG0**
Trailer Lock Down Kit, For Use with 6TFH5				440120	**5NLG2**
Parking Brake Kit, For Use with 6TFH5				440140	**5NLG3**
Foam Filled Tire, For Use with 6TFH5				440279	**5NLG4**
Caster Kit, For Use with 6TFH5				440293	**5NLG5**

BILLY GOAT

Walk-Behind Aerator

Improves supply of water, sunlight, and nutrients to grass roots. Features water weight system for deeper aeration. Thick O-ring chain for longer life and enhanced lubrication. Easy tine engagement for operator comfort. Semipneumatic tires are puncture-proof. Folding handle eases transport and storage. CARB and EPA compliant.

Working Width	HP	Displacement	Engine	Tine Pattern	Fuel Tank Capacity	Item No.
19 in	4.0 hp	118 cc	Honda OHV	4½ x 7 in	2.1 qt	**6TFH3**

35ZD45

CUSHMAN

Personal Transport Vehicles (PTVs)

Feature CVT transmission and leaf spring suspension with hydraulic shock absorbers.

NOTE: Replacement parts are available on Grainger.com.

EXPRESS

E-Z-GO Express S4 Series handles uneven terrain. Electric model has a quiet, 72V electric drivetrain and reaches 19.5 mph. Gas model has 13.5 HP Kawasaki engine and reaches 17 mph.

SHUTTLE

Shuttle Series electric models have 18.1 HP, 48VDC engines and can reach top speeds of up to 13 mph. Gasoline models have a 13.5 HP, single-cylinder, 4-cycle Kawasaki engine and can reach top speeds of up to 16 mph. 35DZ48 has a top speed of 13 mph.

Seating Capacity	Max. Load Capacity	Features	Item No.
Express			
Gas			
4	800 lb	Gray Seat, Headlights, Trail Wolf Tires	**35ZD50**
Shuttle			
Electric			
2	1,000 lb	Battery, Battery Charger, Headlights, Oyster Seat	**35ZD45**
8	1,600 lb	50 psi Front, 70 psi Rear, Brake Lights, Headlights, Kenda Load Star Tires, Oyster Seat, Taillights	**35ZD54**
Gas			
2	1,200 lb	Headlights, Links Tires, Oyster Seat	**35ZD46**
4	1,200 lb		**35ZD48**
6	1,200 lb	Headlights, Links Tires, Oyster Seat - 6	**35ZD52**
8	1,600 lb	50 psi Front, 70 psi Rear, Headlights, Kenda Load Star Tires, Oyster Seat, Taillights	**35ZD53**

Hauler 800
35ZD61

Hauler 800X
35ZD64

CUSHMAN

Utility Task Vehicles (UTVs)

Hauler Series vehicles feature CVT transmission and leaf spring suspension with hydraulic shock absorbers. Electric models have powerful engines, up to 3 HP with a solid state, continuously variable, separately excited speed controller; dash-mounted direction selector switch (forward-neutral-reverse); and reduced speed reverse. Hitch included. Hauler Pro and Pro-X feature a 72VAC electric drivetrain with a 50-mi. range, plus a 12 cu. ft. cargo bed. 38UN39 has an integrated tie-down system and 18" tires.

NOTE: Replacement parts are available on Grainger.com.

Description	Seating Capacity	Max. Load Capacity	Wheel Base	Features	Item No.
Electric					
Hauler 800	2	800 lb	65 ½ in	20 in Trail Tires, Brush Guard Bumper, Gray Seat, Headlights, Horn, Manual Bed Lift, Rear Hitch Receiver	**35ZD61**
Hauler 800X	2	725 lb	65 ½ in	Battery, Battery Charger, Gret yeat, Headlights, K500 Turf Tire, Rear Hitch Receiver, Rear Poly Bed	**782KM4**
Hauler Pro	2	1,000 lb	75 ½ in	Anti-Roll Back, Anti-Stall Motor Protection, Diagnostic Indicator, Factory Programmable to Application, Full Torque, Inductive Throttle Sensor, Reduced Speed Reverse, Regenerative Pedal Down and/or Pedal Up Braking, Seatwrap Mounted Direction Selector Switch, Solid State Continuously Variable AC Speed Controller, Walkaway Braking and Alarm	**38UN39**
E-Z-GO Express S4	4	800 lb	67 in	Battery, Battery Charger, Brake Lights, Convertible Cargo Bed, Headlights, Radial, Rear Bench Seating, SPDR Alloy Wheel, Tail Lights	**782KM2**
Gas					
Hauler 800	2	800 lb	65 ½ in	Brush Guard Bumper, Gray Seat, Headlights, Horn, Plastic Bed with Manual Lift, Rear 2 in Hitch Receiver, Trail Wolf Tires	**35ZD62**
Hauler 800X	2	800 lb	65 ½ in	Brush Guard Bumper, Gray Seat, Headlights, Horn, Links Tires Front, Plastic Bed with Manual Lift, Turf Saver Tires Rear	**35ZD64**
Hauler 1200	2	1,200 lb	77 in	Brush Guard Bumper, Fuel Gage with Low Oil Indicator, Gas Spring Assisted Lift, Gray Seat, Headlights, Horn, Stryker Tires	**35ZD66**
Hauler 1200X	2	1,200 lb	77 in	Brake Lights, Fuel Gage, Headlights, Horn, Load Range C Tires, Oil Gauge, Taillights	**35ZD68**

BILLY GOAT

Litter Vacuums

Suitable for leaf, litter, and debris removal in residential or commercial applications.

Residential/Light Commercial Duty—Feature a 5-blade serrated impeller, zipperless bottom-load mesh turf bag with fasteners for easy unloading. 12" wheels allow maneuvering in tight spaces. Clean up to 35,640 sq. ft./hr. 5NLG6 is for hard surfaces, 5NLG7 has a 1-speed transmission ideal for hilly turf applications.

5NLG7

Commercial Duty—3-speed with a 6-blade impeller. Top-fill mesh turf bag slides out on rails to ease unloading. 14" wheels allow maneuvering over uneven areas. Micro-adjustable height control allows use on turf or hard surfaces. Cleans up to 45,000 sq. ft./hr.

Industrial Duty/Hard Surface—Feature cyclonic filtration with dust sock technology to help reduce dust in dry conditions. Shift-on-the-fly hydrostatic transmission features a variety of forward and reverse speeds for operating in wide open areas and to allow maneuvering in tight spaces. 4-latch bag system is easy to operate.

Description	Cleaning Path	Mfr. Model	Item No.
Residential/Light Commercial Duty			
Push Vacuum with Honda GSV190 Engine	27 in	KV601	**5NLG6**
Self-Propelled Vacuum with Honda GSV190 Engine	27 in	KV601SP	**5NLG7**
Commercial Duty			
Self-Propelled Vacuum with Honda GSV190 Engine	29 in	MV601SP	**5NLG8**
Industrial Duty/Hard Surface			
Push Vacuum with Honda GX160 Engine	33 in	QV550H	**42X708**
Self-Propelled Vacuum with Honda GX160 Engine	33 in	QV550HSP	**42X709**
Self-Propelled Vacuum with Honda GX160 Engine	33 in	QV900HSP	**42X710**

Description	Mfr. Model	Item No.
Accessories for 5NLG6 and 5NLG7		
Hose Kit, 4 in x 8 ft	891125	**5NLH0**
Standard Turf Bag	891132	**5NLH1**
Felt Bag	891038	**5NLH2**
Accessories for 5NLG8		
Hose Kit, 5 in x 10 ft	840116	**5NLH3**
Standard Turf Bag	840189	**5NLH5**
Dust Sock	840263	**35HX34**
Felt Bag	840194	**5NLH6**
Accessories for 42X708, 42X709, and 42X710		
Hose Kit, 5" dia x 10 ft	831018	**42X711**
Dust Sock	831282	**42X712**
Replacement Turf Bag with Ring, 35 gal	831617	**42X713**
Replacement Exhaust Filter	831226	**42X715**
Debris Bag Dust Skirt	831268	**42X714**

20UG76

SWEEPEX

Rotary Broom Sweepers

Walk-Behind Sweepers—Compact sweepers have a powerful Honda engine and an oscillating broom head, as well as 3 forward gears and 1 reverse gear, for excellent performance on a variety of surfaces. Multifunction controls for travel speed, brush speed, pressure, and brush direction. Adjustable height allows comfortable use. Fold for easy storage. Include Multipurpose Brush Kit. Additional attachments sold separately for year-round functionality, see page 992.

Brush Kits—Dirt Brush Kits get at embedded and hard-to-remove dirt. Maintenance Brush Kits are ideal for sweeping ground coverings, such as brick pavers, which require special care.

Brush Extension Kit adds 5.5" to the broom sweep path, and helps with cleaning around corners and edges.

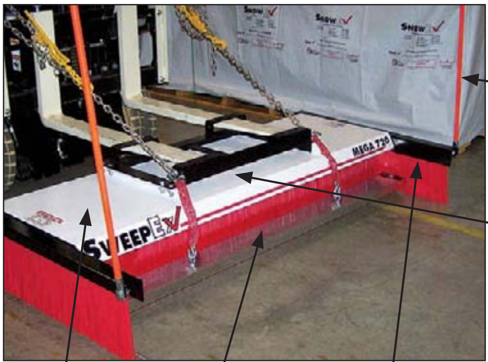
Debris and Leaf Collection—Debris Shields help protect the user from flying debris, such as rocks, sticks, and other scraps; Debris Collectors catch the debris, and direct it into the sweep path.

Leaf Collectors push and clear leaves from entryways, sidewalks, and parking lots.

Description	Mfr. Model	Item No.
Walk Behind Sweeper		
40 in Clearing Path with 12" Brush Dia.	SWB-400	**20UG65**
48 in Clearing Path with 16 in Brush Dia.	SWB-480	**20UG76**
Brush Kits		
Multipurpose Brush Kit For No. 20UG65	SMP-400	**20UG71**
Multipurpose Brush Kit For No. 20UG76	SMP-480	**20UG81**
Dirt Brush Kit For No. 20UG65	SSD-400	**20UG73**
Dirt Brush Kit For No. 20UG76	SSD-480	**20UG83**
Maintenance Brush Kit For No. 20UG65	SSM-400	**20UG74**
Maintenance Brush Kit For No. 20UG76	SSM-480	**20UG84**
Brush Extension Kit For No. 20UG65	SEB-020	**20UG75**
Debris and Leaf Collection		
Debris Shield For No. 20UG65	PCA-400	**20UG68**
Debris Shield For No. 20UG76	PCA-480	**20UG79**
Debris Collector For No. 20UG65	DCB-400	**20UG66**
Debris Collector For No. 20UG76	DCB-480	**20UG77**
Leaf Collector For No. 20UG65	LCA-400	**20UG67**
Leaf Collector For No. 20UG76	LCA-480	**20UG78**

Forklift Broom Attachments

SWEEPEX



Edge Marker Kit 4CAC4

Forklift Mount 4AZZ9

Mega Series Sweeper 4AZZ7

Magnet Bar 4CAC2

Debris Containment Ends and Edge Markers 4CAC3

Sweepers—Turn forklifts into cleanup equipment. Sweepers are attached to forklift tines and are suitable for wet and dry use, indoors and outdoors. 11"L virgin polypropylene bristles are easy to rotate and change. Mega Series requires Forklift Hitch 4AZZ9 for mounting to fork tines. Replacement brushes are available on Grainger.com.

Accessory Attachments—Magnet Bars pick up nails and loose metal debris. Debris Containment Ends keep debris in front of sweeper. Edge Marker Kit allows driver to see exactly where sweeper is located. To attach the Pro and Mega Series sweepers to a skid steer unit, use 54EM87 Skid Steer Hitch with Pro Series sweepers and both 54EM87 Skid Steer Hitch and 54EM88 Adapter Plate for the Mega Series sweepers.

Description	Brush Width	Mfr. Model	Item No.
Sweepers			
Pro Series	60 in	SPB-600	**4AZZ4**
	72 in	SPB-720	**4AZZ5**
Mega Series	60 in	SMB-600	**4AZZ6**
	72 in	SMB-720	**4AZZ7**
	96 in	SMB-960	**4AZZ8**
Accessory Attachments			
Magnet Bar, 60"	—	HDM-060-1	**4CAC1**
Magnet Bar, 72"	—	HDM-072-1	**4CAC2**
Debris Containment Ends and Edge Markers	2 in x 36 in	DCE-020-1	**4CAC3**
Edge Marker Kit	—	EDG-020	**4CAC4**
Mega Series Forklift Mount	60 in, 72 in, 96 in	FLH-200	**4AZZ9**
Pro & Mega Series Skid Steer Hitch	—	SSH-175-1	**54EM87**
Adapter Plate (Also required for Mega Series Skid Steer Attachment)	—	75105	**54EM88**

Single-Stage
22PT97

2-Stage
Deluxe
49XX60

2-Stage
Deluxe
22PT94

Protective
Cab Only
5XPV4

ARIENS

Snow Throwers and Accessories

- All snowblowers offer a powerful Ariens AX engine

Single-Stage—Lightweight, easy to maneuver, and transport. Manual chute rotation and deflector control. Foldable handle bars allow easy storage.

2-Stage Deluxe—3-blade, 14" steel impeller and auger carve out a 24" to 30"-wide path throwing snow up to 60 ft. A dual-belt auger drive continuously sustains engine power directly to the blower head, with no maintenance adjustments required. Feature a heavy-duty cast-iron gear case with alloy steel gears and L-3 severe-duty gear oil. High-performance final drive ratio ensures higher torque at wheels and provides superior traction through deep snow.

ACCESSORIES

Shear Bolt Kits—Intentionally designed to snap if the auger jams or clogs, and will rupture at the designed load limit to protect the auger gear box.

Maintenance Kit—Kit includes 32 oz. of Ariens 5W30 engine oil, replacement spark plug, fuel stabilizer granules, and a spare ignition key.

Slicer Bar Kits—Use to cut large drifts and packed snow and direct snow into the auger; rotate bars down and out-of-the-way when not needed. Can be installed without tools.

Composite Skid Shoe Kit—Nonabrasive shoe protects decorative surfaces from snow thrower damage. Kit includes 2 skid shoes and installation hardware.

Snow Thrower Covers—Water-repellent, tear- and abrasion-resistant covers can stand up to rugged environments. 6mm bungee around the edges.

Protective Floor Mat—Park snow throwers on the raised-edge mat to help contain melting snow, and to help prevent gas, oil, and rust spots and scratches.

Front Weight Kit—Adds 10 lb. to the front of Ariens snow throwers, to equalize weight distribution and hold the scraper blade closer to the ground to get a cleaner surface. Also enhances operator comfort and control.

Protective Cab—Installs quickly and easily, with no tools required, to protect against heavy snow and wind. Freeze-resistant clear windows. Does not require weight kit.

Displacement	Displacement	Clearing Path	Inlet H	Auger Dia.	Torque	Start Type	Drive Gears	Mfr. Model	Item No.
Single-Stage									
208 cc	208 cc	21 in	12 in	8 13/32 in	9.5 ft-lb	Electric/Recoil	1 Forward	938032	**22PT97**
208 cc	208 cc	21 in	12 ½ in	8 13/32 in	9.5 ft-lb	Recoil	1 Forward	938024	**416L42**
2-Stage Deluxe									
254 cc	254 cc	24 in	21 in	14 in	12.5 ft-lb	Electric/Recoil	6 Forward/2 Reverse	921045	**49XX60**
254 cc	254 cc	28 in	21 in	14 in	12.5 ft-lb	Electric/Recoil	6 Forward/2 Reverse	921046	**22PT93**
306 cc	306 cc	30 in	21 in	14 in	15 ft-lb	Electric/Recoil	6 Forward/2 Reverse	921047	**22PT94**
Accessories									
Shear Bolt Kit, For Use with 5XPT6 and 31MJ51								73203900	**10L413**
Shear Bolt Kit, For Use with 22PT93 and 22PT94								72100600	**10L412**
Maintenance Kit, For Use with 2-Stage Models (This Page) Except 5XPT6								72101300	**5XPV9**
Slicer Bar Kit, For Use with 5XPT6 and 31MJ51								73203100	**5XPV6**
Slicer Bar Kit, For Use with 10G176								72406900	**5XPV7**
Composite Skid Shoe Kit, For Use with All 2-Stage Models (This Page) Except 5XPT6								72603100	**5XPV8**
Snow Thrower Cover, For Use with 22PT92, 22PT96, 22PT97, 5XPT6, 31MJ51								72601400	**5XPV2**
Snow Thrower Cover, For Use with 22PT93 and 22PT94								72601500	**5XPV3**
Protective Floor Mat, 30" x 36"								70716800	**14V989**
Front Weight Kit, For Use with All Models (This Page)								72406500	**5XPV5**
Protective Cab, For Use with All 2-Stage Models (This Page)								72102600	**5XPV4**

40LJ51

Snow Throwers

Electric start snow throwers offer a Briggs & Stratton engine and use synthetic oil.

Single-Stage—40LJ51 features an auger-assisted drive system with a thermal plastic urethane auger. Manual chute rotation and quick deflector.

55JK85 and 55JK86 offer quick adjust deflector, a compact size, and quick height and distance adjustment.

2-Stage—FreeHand control and reversible skid shoes provide easy control. Friction disc transmission has 5 forward and 2 reverse speeds. The dash-mounted chute control and on-panel deflector control provide easy operation. Steel skid shoes.

Displacement	Drive Type	Clearing Path	Auger Dia.	Auger Type	Inlet Height	Torque	Lights	Fuel Tank Capacity	Mfr. Model	Item No.
Single-Stage										
163 cc	Auger	22 in	10 in	Thermal	12 ½ in	7.5 ft-lb	No	2.9 qt	1696715	**40LJ51**
Single-Stage, Compact Size										
127 cc	Auger	18 in	7 in	Thermal	12 ½ in	5.5 ft-lb	No	3.2 qt	1697099	**55JK85**
208 cc	Auger	18 in	10 in	Thermal	12 ½ in	9.5 ft-lb	No	3.2 qt	1696727	**55JK86**
2-Stage										
208 cc	Disc	18 in	12 in	Notched	20 in	9.5 ft-lb	Yes	3.2 qt	1696807	**55JK88**
250 cc	Disc	27 in	12 in	Notched	20 in	11.5 ft-lb	Yes	3.2 qt	1696815	**55JK89**
208 cc	Disc	24 in	12 in	Notched	20 in	9.5 ft-lb	Yes	3.2 qt	1696614	**40LJ49**
250 cc	Disc	27 in	12 in	Notched	20 in	11.5 ft-lb	Yes	3.2 qt	1696619	**40LJ48**

SnowEx

Snow Power Brush/Plow

Polar Trec tires and pneumatic support assures outstanding traction and 360° turnability on snow and icy terrain. Attach the included snow blade for dual sweeping/plowing capabilities. Locking differential feature helps keep you on a straight path. Control broom angle, pressure, and speed directly from the steering-mounted panel. Offers adjustable height and folds for storage.

Clearing Path	Brush Dia.	Engine	Mfr. Model	Item No.
40 in	16 in	Honda GXV Series 160cc	SS-4000	**20UG85**

783XU7

783XU9

All-Season Power Brushes

Use to clear snow, slush, or debris all the way to the ground. Rotary broom head is safe for use on decorative surfaces.

783XU7 and 783XU8 have 6 forward and 2 reverse speeds, 783XU9 offers a Hydrostatic Drive for infinite speed control. 783XU7 is equipped with 16 in x 5 in directional snow tread tires, 783XU8 and 783XU9 have 16 in x 6½ in snow tread tires, an LED headlight, and commercial-grade handlebars. 783XU9 also offers a 40° pivoting brush head (20° left/right), adjustable brush height, and heated handgrips.

Description	Clearing Path	Engine	Mfr. Model	Item No.
Power Brush	28 in	Ariens AX 179cc	921067	**783XU7**
Power Brush	36 in	Kohler CH395 277cc	926087	**783XU8**
Power Brush with Hydrostatic Drive	36 in	Kohler CH395 277cc	926088	**783XU9**

20UG65

Description	Mfr. Model	Item No.
Walk Behind Sweeper		
40 in Clearing Path with 12" Brush Dia.	SWB-400	**20UG65**
48 in Clearing Path with 16 in Brush Dia.	SWB-480	**20UG76**
Accessories		
Snow Blade For 20UG65	SSB-400	**20UG70**
Snow Brush Kit For 20UG65	SRS-400	**20UG72**

SweepEx

All-Season Power Brushes

Power Brushes—Compact brushes/sweepers have powerful 160cc Honda GXV engines, 3 forward gears, and 1 reverse gear. The oscillating, rotary broom head provides excellent clearing on a variety of surfaces. Easy, multifunction control for travel speed, brush speed, pressure, and brush direction. Have adjustable height and fold for storage. Multipurpose Broom Kit included; additional attachments sold separately.

Accessories—Snow Blade and Snow Brush Kit turn your walk-behind rotary broom into an effective snow removal tool.

Optional Polar-Trec drive wheels provide positive traction on snow and icy terrain, find them on Grainger.com.

46T343

Small Engine Fuel

Non-ethanol fuel is formulated to provide easier more-dependable starts. Remains stable and ready to run for up to 2 years once poured into the tank; keeps for up to 5 years in an unopened can. Helps reduce maintenance and extend engine life.

Size	Mfr. Model	Item No.	Pkg. Qty.
2-Cycle Premixed Fuel and Oil (50:1)			
1 qt	6238	**46T343**	8
5 gal	6232	**46T347**	1
54 gal	6234	**46T349**	1
4-Cycle Unleaded Fuel			
1 qt	6208	**46T342**	8
5 gal	6202	**46T346**	1
54 gal	6204	**46T348**	1

5TN63

Universal 2-Cycle Oil

Clean-burning formula protects against heat, corrosion, and rust. Use where different ratio mixtures are required. For engines with 25 HP or less.

Size	Mfr. Model	Item No.
15 oz	SL2261	**5TN63**

OREGON

Only One 2-Cycle Oil

Can reduce oil consumption and particulate emissions by up to 50% compared to standard oil. Mix with 1 gal. of gasoline.

Size	Mfr. Model	Item No.
1.8 oz	40092	**46C507**

45J374

ECHO

2-Cycle Engine Oil and Stabilizer

ECHO Power Blend Synthetic Oil (45J373 and 45J374) helps facilitate proper break-in and extends the life of your equipment. Red Armor 45J377 can stabilize fuel for up to 2 years. Cleans away existing engine deposits and helps protect against carbon buildup.

Size	Mfr. Model	Item No.	Pkg. Qty.
2.6 oz	6450001GE	**45J373**	6
16 oz	6450006GE	**45J374**	1
2.6 oz	6550001E	**45J377**	6

STOR-X Fuel Stabilizer

Preserves gasoline and diesel fuel up to 1 yr. Inhibits formation of varnishes, peroxides, and gums. 1 bottle treats up to 20 gal.

Size	Mfr. Model	Item No.
8 oz	402815	**3KB54**

Snow Shovels, Pushers, Brushes, Ice Choppers, and Roof Rakes

Description	Handle L	Handle Material	Blade Material	Blade W	Blade H	Brand	Item No.
Snow Shovels							
Snow Shovel with Straight Handle	22 in	Plastic	Aluminum	9 in	4 ½ in	Subzero	**21EK35**
Telescopic, Extending	30 in to 37 in	Plastic	Plastic	8 ½ in	13 ¾ in	Subzero	**16A722**
Ergonomic Shaft Design with D-Grip Handle	45 in	Steel	Aluminum	18 in	14 ¾ in	Westward	**12U488**
	39 in	Steel	Aluminum, Polypropylene	18 in	14 ½ in	True Temper	**5W938**
	39 in	Steel	Polypropylene, Stainless Steel	19 17/25 in	13 in	Westward	**21AD03**
Standard Design with D-Grip Handle	36 in	Wood	Aluminum	18 in	14 ¾ in	Westward	**12U487**
	37 in	Wood	Steel	18 in	14 ¾ in	Westward	**6YU43**
	36 in	Steel	Aluminum	18 in	14 ½ in	True Temper	**35NZ65**
	37 in	Wood	Polypropylene, Stainless Steel	18 in	13 ½ in	Westward	**21AD01**
	37 in	Wood	Steel	18 in	14 ½ in	True Temper	**4W604**
	37 in	Wood	Polypropylene	18 in	13 ½ in	Westward	**32KX18**
	37 in	Steel	Polypropylene, Stainless Steel	18 in	13 ½ in	Westward	**21AC99**
	43 in	Fiberglass	Polycarbonate	18 in	13 ½ in	Seymour Midwest Structron	**417T74**
Snow Pushers							
Standard Design with Straight Handle	48 in	Wood	Aluminum, Polypropylene	24 in	12 in	Westward	**6YU39**
	49 ½ in	Wood	Carbon Steel	24 in	12 in	Westward	**6YU37**
	48 in	Wood	Carbon Steel	24 in	11 in	True Temper	**4W603**
Standard Design with Steel Braces	48 in	Wood	Steel	30 in	12 in	Westward	**12U485**
Standard Design with D-Grip Handle	42 in	Wood	Aluminum, Polypropylene	22 ¼ in	11 ⅗ in	Westward	**21AC98**
	42 in	Wood	Polypropylene	22 ¼ in	11 ½ in	Westward	**36RG03**
	42 in	Wood	Steel	24 in	10 in	True Temper	**8AJ16**
	42 in	Wood	Polycarbonate	30 in	11 in	Union Tools	**4KGN7**
	45 in	Fiberglass	Polycarbonate	24 in	10 ¾ in	Seymour Midwest Structron	**417T73**
	43 ¼ in	Wood	HDPE	30 in	10 ½ in	Westward	**46MP80**
	45 in	Steel	Aluminum, Polypropylene	22 ¼ in	11 ⅗ in	Westward	**21AD02**
	44 in	Steel	Plastic	27 in	12 in	Suncast	**60PX97**
U-Shaft/Handle Ergonomic Design	32 in	Aluminum	Polycarbonate, Steel	26 in	21 in	True Temper	**22D135**
U-Shaped	27 ½ in	Aluminum	Polycarbonate	20 in	19 in	True Temper	**22D136**
	48 in	Aluminum	HDPE	24 in	13 in	Manplow	**420M44**
	48 in	Aluminum	HDPE	32 in	13 in	Manplow	**420M45**
	50 in	Aluminum	HDPE	40 in	15 ½ in	Manplow	**61HN59**
	48 in	Aluminum	HDPE	42 in	13 in	Manplow	**420M46**
	50 in	Aluminum	HDPE	48 in	15 ½ in	Manplow	**61HN60**
Snow Brushes with Ice Scraper							
Plastic Contour Grip, Fixed Head	16 in	Plastic	Polycarbonate	3 ¾ in	3 ½ in	Mallory	**1GLR6**
	26 in	Plastic	Polycarbonate	5 in	4 in	Mallory	**1GLR4**
	35 in	Aluminum	Polycarbonate	5 in	4 ½ in	Mallory	**1GLR2**
Telescopic, Pivot Head	34 in to 52 in	Aluminum	Polycarbonate	5 in	4 in	Mallory	**1GLP9**
Ice Choppers							
Standard Design	48 in	Wood	Steel	3 ½ in	6 in	Westward	**12U484**
	48 in	Wood	Steel	4 in	9 ½ in	Westward	**12U482**
	48 in	Wood	Steel	7 in	5 in	True Temper	**49AF75**
	48 in	Wood	Steel	7 in	6 in	Westward	**6YU41**
	54 in	Hardwood	Steel	7 in	6 in	Westward	**39FY71**
Standard Design with D-Grip Handle	39 in	Wood	Steel	7 in	9 ¼ in	Westward	**12U483**
	46 ½ in	Wood	Steel	7 in	9 in	Razor-Back	**39GA14**
	52 in	Ribbed Steel Core	Tempered Galvanized Steel	7 in	2 in	Suncast	**22EN23**
Snow Roof Rakes							
3-pc. Telescoping Handle	16 ft	Aluminum	Poly	22 in	6 in	Garant	**39GA13**
	16 ft	Aluminum	Plastic	23 ½ in	6 in	Westward	**12U486**
	16 ft	Aluminum	Aluminum	24 in	4 ½ in	Seymour Midwest Rake	**9M608**
	16 ft	Aluminum	Aluminum	22 in	4 ⅝ in	Seymour Midwest Rake	**9XFW5**
Nonslip Telescoping Handle and Shaft	17 ft	Aluminum	Poly	24 in	6 ½ in	True Temper	**22D137**
Replacement EZ Glide Edges for Manplow Snow Pushers							
PRO Replacement EZ Glide Edges	—	—	HDPE	24 in	2 ½ in	Manplow	**420M50**
	—	—	HDPE	32 in	2 ½ in	Manplow	**420M51**
	—	—	HDPE	42 in	2 ½ in	Manplow	**420M52**

21EK35

21AD03

417T74

4KGN7

22D136

420M44

1GLR2

6YU41

39GA14

9M608

420M51

5UUY5

5UUY4

4W973

Description	Ice Melt Color	Size	Mfr. Model	Item No.
Solo	Blue	50 lb	CSOL050BX-GR	**5UUY5**
Premiere	Blue	12 lb	CPM012JG-GR	**5UUY4**
Premiere	Blue	50 lb	CPM050P	**4W973**
Premiere Pro	Pink	50 lb	SU050BX-GR	**4KA50**

Granular Ice Melting Compounds

Inhibitor system contains CMA (calcium magnesium acetate), a fast-acting, longer-lasting ice melter that is safer than calcium chloride. Nontoxic and noncorrosive when used as directed.

COMPARISON CHART FOR GRANULATED ICE MELTER PRODUCTS

	Solo	Premiere	Premiere Pro	Salt/ Potassium Chloride	Calcium Chloride
Safer Choice		X	X	—	—
Metal Corrosion Inhibitors	X	X	X	—	—
Safe on Vegetation	X	X	X	—	—
Colored Product	X	X	X	—	—
Safe on Leather	X	X	X	X	—
Anticaking Agents	X	X	X	—	—
Safe on Carpets & Floors	X	X	X	X	—
No Protective Clothing Needed	X	X	X	X	—
Freezing Point	-5°F	-8°F	-20°F	-5°F/12°F	-25°F

19YX34

19YX35

ECOTRACTION™

Zeolite Winter Traction

- Effective in all temperatures

Safe, eco-friendly granules provide better traction than sand and resist freezing and clumping. Excellent for areas with heavy foot traffic and great for vehicles on side roads. Highly visible green particles embed into ice and snow for long-lasting traction. Will not harm people or animals if accidentally ingested and will not damage plants, grass, or concrete parking surfaces. Designed to improve soil's nutrient reservoirs, infiltration rate, aerations, and water absorption.

Size	Coverage Area	Package Type	Mfr. Model	Item No.
10 lb	Up to 2880 sq ft	Jug	ET4R	**19YX34**
40 lb	Up to 10,080 sq ft	Bag	ET40X	**19YX35**
2,000 lb	Up to 504,000 sq ft	Bulk Tote (Super Sack)	ET909X-T	**19YX36**

Premiere Liquid De-Icer

- Effective to -20°F

Nonchloride formula inhibits corrosion and won't damage carpets, floors, or shoes. Safe for vegetation. Can be used before storms to prevent ice and snow from adhering to pavement.

Size	Mfr. Model	Item No.
5 gal	CPL005PL-GR	**3YB71**

Polyethylene Scoop

TOUGH GUY

Offers a comfortable molded-in handle and is excellent for scooping out large amounts of road salt and similar dry materials.

Cap.	W	Color	Item No.
3 qt	6 in	White	**3U607**

2FGV7

SNOWEX

Poly Material Storage Bins

Weather-resistant bins safely store salt, sand, fertilizer, sports gear, or tools outdoors. Heavy-duty, UV-protected polyethylene construction with forklift pockets. Storage Bins have a hinged lockable lid. 2FGV7 and 2FGV8 offer a material scoop and content placards.

Volume Cap.	Load Cap.	H	W	L	Item No.
Storage Bins with Attached Lids					
High Density Polyethylene					
6 cu ft	450 lb	20 ¾ in	33 ¼ in	48 in	**60KD69**
12 cu ft	900 lb	20 ¾ in	33 ¼ in	48 in	**60KD70**
Polyethylene					
11.0 cu ft	1,000 lb	27 in	30 in	30 in	**2FGV7**
18.0 cu ft	1,750 lb	32 in	34 in	34 in	**2FGV8**
Storage Bin Accessory					
Heavy-Duty Material Scoop					**4CAD1**

CHAPIN

Pretreat and De-Ice Backpack Sprayer

Internal pressure chamber provides operational pressure of 90 psi to deliver pretreatment and de-icing liquids. Poly tank has easy-fill 4" opening, built-in straining basket, and Viton O-rings and seals. Poly wand has a continuous spray feature. 2 poly and 1 brass nozzle provide stream and fan spray pattern choices.

Tank Cap.	Mfr. Model	Item No.
4 gal	61808	**11C538**

SNOWEX

Walk-Behind Electric Sprayer De-Icer

- Spray width: 3 to 4 ft.

Delivers a consistent spray pattern of any de-icing liquid from the main nozzle or alternate spray wand. 60 psi pump has On/Off switch for selective lane or spot spraying on sidewalks, stairways, and hard-to-reach areas. Has a poly tank, heavy-duty powder-coated steel frame and handle, stainless steel axle, and 13" pneumatic tires. Includes 12V battery with 110V charger.

Tank Cap.	Mfr. Model	Item No.
12 gal.	SL-80	**12A764**

CHAPIN

Push Liquid Sprayer

- Cover large areas with up to 12 gal. of liquid

Features a 24V lithium ion battery for up to 1.75 hr. of continuous spraying. Movable spraying arm/boom sprays to the front, left, or right. 6"W opening for easy filling and cleaning access. Includes 20"L extension wand with shut-off, poly tank, and powder-coated steel frame. Can be used with insecticides, herbicides, liquid ice melts, and liquid fertilizers. Operating pressure: 40 psi. Spray/flow rate: .4 to .5 gpm.

Tank Cap.	Mfr. Model	Item No.
12 gal	97902	**415J03**

Handheld and Shoulder Spreaders

Handheld broadcast spreaders feature 1-hole drop. Durable polypropylene construction resists corrosion. Shoulder spreader is ideal for areas where full-size spreaders can't go. Keeps product protected from weather. Trigger-controlled gate opening.

483F40

52PE53

416P38

Cap.	Features	For Use With	Includes	Spread Width	Brand	Mfr. Model	Item No.
Handheld Broadcast Spreaders							
3.3 lb	Easy-Crank Design, Lightweight	Seed, Fertilizer, Salt	—	5 to 12 ft	Westward	8708A	**483F40**
3.5 lb	—	All Granular Materials	—	1 to 4 ft	Tolco	250105	**52PE53**
Shoulder Spreader							
25 lb	680 cu in Capacity, Adjustable Gate with Trigger Control, Enclosed Container Keeps Product Protected From The Weather, Padded Adjustable Strap, Side Baffle Helps Direct Spread of Product	Seed Products, Granular Herbicides, Fertilizers	Padded Adjustable Shoulder Strap	8 ft	Chapin	8700A	**416P38**

Push Broadcast and Drop Spreaders

Broadcast spreaders spray in a designated pattern from the unit. They can have a 'deflector' that limits the spray reducing where the output goes. 1-hole models are best for spreading finer materials such as grass seed and fertilizer. Broadcast and drop spreaders with high-output (HO) drop are best for larger granular materials such as ice melt. Drop spreaders drop the product directly below the spreader for greater control of location (this could help prevent harm to the environment, surfaces, vegetation, concrete, etc.). Stainless steel axles resist corrosion. Drop spreaders are for sidewalk and other controlled spreading applications. Garden seeder helps prep rows for planting and accurately plants seeds at the right intervals.

10F633

60KV33

5NTR3

49XW59

4CAD2

416P39

Cap.	Drop Type	Spread Width	Axle Type	Wheel Type	Wheel Dia.	Handle	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
Broadcast Spreaders												
30 lb	1 Hole	12 ft	Steel	Pneumatic	10 in	Loop	Cable	Fertilizer, Grass Seed	Cover	Westward	—	**10F633**
	1 Hole	12 ft	Stainless Steel	Pneumatic	10 in	Loop	Cable	and Salt, Fertilizer, Grass Seed	Cover	Westward	—	**10F635**
70 lb	1 Hole	10 to 12 ft	Stainless Steel	Pneumatic	12 in	Curved T	Rod		Hopper Screen and Cover	Westward	—	**10F636**
80 lb	1 Hole	12 ft	Stainless Steel	Pneumatic	12 in	Loop	Rod	and Ice Melt, Fertilizer, Grass Seed	Hopper Screen and Cover	Westward	—	**4UHC9**
85 lb	Broadcast	10 ft	Steel	Pneumatic	10 in	Fixed T	Cable	Fertilizer	—	Agri-Fab	45-0531	**437R85**
	Broadcast	10 ft	Steel	Pneumatic	10 in	Fixed T	Rod		—	Agri-Fab	45-0532	**437R86**
100 lb	Broadcast	Up to 12 ft	—	Pneumatic	—	—	Manual Lever	Granular Fertilizer, Granular Herbicide, Granular Pesticide, Seed	3-Side Deflector Kit, Heavy-Duty Rain Cover	TurfEx	TS50	**60KV33**
	Broadcast	15 to 20 ft	Stainless Steel	Pneumatic	14 in	Fixed T	Stainless Slide Gate	Ice Melt, Rock Salt	Rain Cover, Steel Grate	Chapin	82500B	**416P40**
	HO	15 to 20 ft	Stainless Steel	Pneumatic	14 in	Adjustable T	Variable Gate Control		Conical Auger, Metal Gears	Westward	45FE32	**45FE32**
	HO	20 ft	Steel	Knobby	10 in	Fixed T	Cable	Salt and Rock Salt	Cover, Hopper Screen	SnowEx	SP-65	**5NTR3**
125 lb	1 Hole	10 to 12 ft	Stainless Steel	Pneumatic	14 in	Fixed T	Rod	and Rock Salt, Fertilizer, Grass Seed, Ice Melt	Hopper Screen and Cover	Westward	—	**4UHD2**
	1 Hole	12 ft	Stainless Steel	Pneumatic	14 in	Fixed T	Rod	and Ice Melt, Fertilizer, Grass Seed	Hopper Screen and Cover	Westward	—	**4UHD1**
130 lb	Broadcast	10 ft	Steel	Pneumatic	13 in	—	Variable Gate Control	and Salt, Fertilizer, Grass Seed	—	Agri-Fab	45-0462	**49XW59**
	Spinner	10 ft	—	Pneumatic	—	Fixed T	Rod	Fertilizer, Grass Seed, Ice Melt	Deflector, Grate, Hopper Cover	Agri-Fab	45-0548	**55VC69**
160 lb	HO	20 ft	Stainless Steel	Knobby	13 in	Fixed T	Rod	Salt and Rock Salt	Cover, Hopper Screen	SnowEx	SP-85	**4CAD2**
Drop Spreaders												
160 lb	HO	2.3 ft	Stainless Steel	Pneumatic	13 in	Fixed T	Rod	Salt and Rock Salt	Hopper Screen and Cover	SnowEx	SD-95	**5NTR2**
	Regulated Drop	2.3 ft	Stainless Steel	Pneumatic	13 in	Fixed T	Precise Drop	Ice Melt, Rock Salt	Top Screen and Cover	SnowEx	SD-95SS	**49XM93**
Garden Seeder												
3 lb	Regulated Drop	1 to 4 ft	Steel	Polyurethane	11 in	Cushion Grips	(6) Seed Plate	(20) Seed Varieties	(6) Interchangeable Seed Plates, Protective Fabric Case	Chapin	8701B	**416P39**

Description	For Use With	Mfr. Model	Item No.
Westward Accessories			
Baffle System to Control Flow Direction	Westward Models	45FE33	**45FE33**
Salt Deflector Kit	No. 10F636	—	**10F637**
SnowEx Accessory			
Salt Deflector	No. 5NTR3	PDK-020	**49XM92**

SnowEx

Push Broadcast Sprayer

Completely electric powered with the ability to spray salt brine through the spot spraying wand or front boomless nozzle. Ideal for stairs and sidewalks. Powered by a 12V electric pump, rated at 1 gpm at 60 psi, which includes a rechargeable battery that fully charges in 12 to 16 hr. Accessible vent cap for easy filling.

Cap.	Spray W	Axle Type	Wheel Type	Wheel Dia.	Handle	Flow Control	Includes	Mfr. Model	Item No.
12 gal	Up to 4 ft	Stainless Steel	Pneumatic	13 in	Fixed T	Front Nozzle/ Wand Sprayer	Battery Charger, Extra Wide Vented Cap, Spray Wand	SL-80SS	**49XM94**

437R88

55VC72

5NTR1

49XW60

Tow-Behind Broadcast Spreaders

Agri-Fab SnowEx

These spreaders feature enclosed gears, powder-coated steel tube frames, and pneumatic tires that roll easily over most terrain. 5NTR1 has powder-coated axle, sealed bearings, 12VDC electric gate, high-output auger feed, and fits a pin hitch.

Cap.	Drop Type	Mount Type	Spread W	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
85 lb	Broadcast	Pin Hitch	10 ft	Cable	Fertilizer	Broadcast Spreader	Agri-Fab	45-0530	**437R91**
110 lb	Broadcast	—	10 ft	Cable	Fertilizer	Universal Hitch	Agri-Fab	45-0527	**437R88**
130 lb	Broadcast	—	10 ft	Variable Gate Control	Fertilizer, Grass Seed, and Salt	—	Agri-Fab	45-0463	**49XW60**
175 lb	Broadcast	Pin Hitch	10 to 12 ft	Rod	Fertilizer	Grate and Hopper Cover	Agri-Fab	45-03297	**437R92**
185 lb	Broadcast	Pin Hitch	—	Rod	Fertilizer, Grass Seed, and Ice Melt	—	Agri-Fab	45-0547	**55VC72**
3500 lb.	HO	Pin Hitch	Up to 30 ft.	Electric	Salt	Hopper Screen and Cover	SnowEx	SP-7000	**5NTR1**

8XTT1

5NTR0

5NTP9

Mounted Broadcast Spreaders

Fimco Industries TurfEx

Rear-mounted spreaders with corrosion-resistant poly hoppers use 12VDC variable-speed motors to adjust the spread width area. 8XTT1 includes On/Off drop switch, mounting brackets, and hardware. Power train-operated spreader 5NTR0 has a 3-pt. hitch and manually adjustable flow rate. Rear-mounted spreader 5NTP9 has a powder-coated steel frame, 2" receiver hitch, and hopper cover. Features electric-controlled flow gate and calibrated drop.

Cap.	Drop Type	Mount Type	Spread W	Flow Control	For Use With	Includes	Brand	Mfr. Model	Item No.
ATV Rear-Mounted									
12VDC									
145 lb	1 Hole	—	5 to 45 ft	Variable Speed	Bait, Fertilizer, Granular Fungicides, Granular Herbisides, Granular Insectisides, Grass Seed, Ice Melting Pellets, Pellets, Powders	Motor Speed Control	Fimco	ATV-DMS-12V	**8XTT1**
Hitch-Mounted									
PTO									
418 lb	Calibrated HO	3-Point Hitch	Up to 30 ft	Cable	Seed and Fertilizer	Cover	TurfEx	TS700P	**5NTR0**
Hitch-Mounted Electric									
12VDC									
240 lb	Calibrated HO	2 in Receiver Hitch	Up to 20 ft	Electric	Seed and Fertilizer	Cover, Deflector Kit	TurfEx	TS300EG-1	**5NTP9**

Square-Point Shovels—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Standard						
Fiberglass	27 in	9 ¼ in	11 ¼ in	14 ga	Westward	**12V171**
Hardwood	30 in	9 ¾ in	11 ¾ in	14 ga	Westward	**1WG34**
Hardwood	40 in	14 ½ in	15 ½ in	14 ga	Razor-Back	**39FZ98**
Nonconductive						
Fiberglass	27 in	9 ⅞ in	11 ½ in	14 ga	Nupla	**4GFE7**
Mud Sifting						
Fiberglass	29 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Toolite	**3PGD6**
Straight Grip						
Standard						
Ash	48 in	11 ¼ in	13 ¾ in	14 ga	Westward	**6YU35**
Ash	48 in	11 ½ in	13 ½ in	16 ga	Westward	**4LVT1**
Fiberglass	47 ½ in	9 ¾ in	11 in	14 ga	Westward	**3YU83**
Fiberglass Cushion Grip	48 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Structron	**49DG92**
Nonconductive						
Fiberglass	48 in	9 ⅞ in	11 ½ in	14 ga	Nupla	**4GFE6**
Mud Sifting						
Fiberglass	48 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Toolite	**3PGD4**
Ergonomic						
Fiberglass Poly Coated	47 in	10 in	11 ¼ in	16 ga	Westward	**46MP81**

Replacement Shovel Handles

Handle Type	Handle Material	Handle L	Fits	Brand	Item No.
Straight	Wood	48 in	Open Back Shovels	True Temper	**15F194**
	Poly-Coated Fiberglass	48 in	Nupla® Shovels	Westward	**4LVR4**
	Poly-Coated Fiberglass	48 in	Nupla® Shovels	Nupla	**3MD34**

Nonsparking Edging Spade and Scoop Shovel

These nonmagnetic, corrosion-resistant tools feature handles made of sturdy fiberglass. Spade 49UG97 has D-grip and is perfect for digging, edging, transplanting small bushes and trees, cutting sod and small roots, dividing perennials, and trenching. Shovel 8RJC5 is ideal for scooping dirt, mulch, snow, and grain.

Description	Handle L	Blade W	Blade L	Item No.
Edging Spade	26 ½ in	7 ¼ in	11 in	**49UG97**
Scoop Shovel	43 ½ in	14 in	17 in	**8RJC5**

Round-Point Shovels—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Mud Sifting						
Fiberglass	29 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Toolite	**3PGD2**
Nonconductive						
Fiberglass	27 in	9 in	11 ½ in	14 ga	Nupla	**4GFE5**
Shark Tooth, Ergonomic						
Fiberglass	40 in	9 in	11 in	14 ga	Seymour Midwest Structron	**31MJ63**
Standard						
Fiberglass	27 in	8 ¼ in	11 ¼ in	14 ga	Westward	**12V170**
Fiberglass	29 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Structron	**31MJ61**
Hardwood	30 in	8 ½ in	11 ¾ in	14 ga	Westward	**1WG33**
Wood	12 in	6 in	8 in	16 ga	Seymour Midwest	**31MJ60**
Straight						
Ergonomic						
Poly-Coated Fiberglass	48 in	9 in	11 ½ in	16 ga	Nupla	**3MD54**
Mud Sifting						
Fiberglass	48 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Toolite	**3PGC9**
Nonconductive						
Fiberglass	48 in	9 in	11 ½ in	14 ga	Nupla	**4GFE4**
Standard						
Ash	48 in	8 ½ in	11 ½ in	14 ga	Westward	**1WG31**
Ash	48 in	8 ¾ in	11 in	14 ga	Westward	**4LVT2**
Ash	48 in	9 in	9 ¾ in	14 ga	Westward	**4LVT3**
Fiberglass	48 in	9 in	11 in	14 ga	Westward	**3YU82**
Fiberglass Cushion Handle	48 in	9 ½ in	11 ½ in	14 ga	Seymour Midwest Structron	**49DG91**

Ceremonial Round-Point Shovels

Both have D-grip hardwood handles. 39FZ94 has a steel blade with chrome finish. 9XEM2 has a chrome blade.

Handle L	Blade W	Blade L	Brand	Item No.
28 in	6 in	9 ½ in	Razor-Back	**39FZ94**
29 in	9 in	11 in	Seymour Midwest	**9XEM2**

Folding Spade Shovels

Compact folding spades have glass-filled nylon handles, and a 6"W serrated blade that lets you saw and chop through tough roots while digging. 4RDT9 and 4VAH6 have a boron-steel head. 23NK34 has a forged steel head. 45NW05 glass-filled nylon handle folds at the touch of a button.

Description	Closed L	Overall L	Blade L	Item No.
D-Grip Folding Spade	9¼"	23¾"	8 ⅜ in	**4RDT9**
D-Grip Folding Spade w/Sheath	9¼"	23¾"	8 ⅜ in	**23NK34**
D-Grip Folding Spade w/Pick	9⅗"	23⅖"	8 ⅜ in	**4VAH6**
Straight Folding Spade	9¼"	16½"	6 in	**45NW05**

WESTWARD · SEYMOUR MIDWEST · STRUCTRON · RAZORBACK PROFESSIONAL TOOLS

4LVR8

Spades—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
Drain Spade						
D-Grip						
Ash	30 in	6 in	16 in	14 ga	Westward	**4LVR8**
Fiberglass	27 in	5 ¾ in	14 in	14 ga	Westward	**12V172**
Fiberglass	29 in	5 ½ in	14 in	14 ga	Seymour Midwest Structron	**49DG93**
Poly-Coated Fiberglass	27 in	6 in	14 in	14 ga	Westward	**4LVR6**
Straight						
Fiberglass	46 ¾ in	5 ¾ in	14 in	14 ga	Westward	**12V173**
Garden Spade						
D-Grip						
Ash	30 in	6 ¾ in	12 in	14 ga	Westward	**4LVR9**
Straight						
Fiberglass	46 ¾ in	7 ¼ in	12 in	14 ga	Westward	**12V168**
Landscaper Spade						
D-Grip						
Steel	26 in	7 in	15 in	14 ga	Razor-Back	**13F612**
Steel	29 in	6 in	13 in	—	Razor-Back	**39E759**
Roofer's Spade						
Straight						
Hardwood	48 in	7 ⅜ in	12 in	14 ga	Razor-Back	**39FZ96**

WESTWARD

12U497

V-Type Trenching Shovels—Steel Blade

Handle Material	Handle L	Blade W	Blade L	Gauge	Item No.
Hardwood	48 in	5 in	11 ¼ in	14 ga	**12U497**
Hardwood	48 in	4 in	11 ¼ in	14 ga	**12U496**

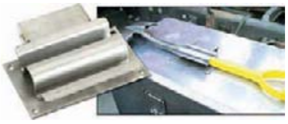
Buyers PRODUCTS COMPANY

Tool Holders

- Predrilled

6A111 is a rust-resistant, brass-plated clamp that holds hoses and handles up to 1⅛" dia. 3ULJ5 is a heavy-duty stainless spring mechanism that secures shovels or other round-handled tools.

6A111



3ULJ5

For Use With	Material	L	Brand	Item No.
Hoses and Handles	Brass Plated With Rubber Grips	2 ½ in	—	**6A111**
Shovels or Round Handled Tools	Stainless Steel	7 ½ in7 ½ in	Buyers Products	**3ULJ5**

Shovel and Handle Types

SHOVEL TYPES

Round and Square
Used for digging and moving materials. These shovels usually have a long, straight handle; giving you more leverage when digging. The larger blade size comes with a pointed or rounded tip and is ideally used for digging, moving, breaking, and turning soil applications.

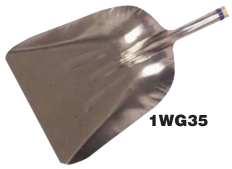
Scoop
Primarily used for moving grain material. Feature deeper basin that helps prevent spillage and has a deep enough edge to help snow removal.

Spade
Used for removing material and creating trenches of different shapes. Spades usually have a small, straight, flat blade and a shorter shaft. They are primarily used for slicing, lifting, moving, edging, and loosening soil and roots.

Trench
Similar to spades and are used to dig narrow trenches.

HANDLE TYPES
Come in straight or D-shapes and are made from wood, fiberglass, steel, and aluminum.

WESTWARD · SEYMOUR MIDWEST · STRUCTRON · RAZORBACK PROFESSIONAL TOOLS



1WG35

Scoops—Aluminum Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
D-Grip					
Fiberglass	27 in	14 ¾ in	19 in	Westward	**12U492**
Fiberglass	29 in	15 ¼ in	19 in	Seymour Midwest Structron	**49DG96**
Poly-Coated Fiberglass	26 ¼ in	13 ½ in	18 ½ in	Westward	**3YU77**
Poly-Coated Hardwood	29 ½ in	13 ⅜ in	18 ¾ in	Westward	**1WG35**
Straight					
Hardwood	62 in	14 ½ in	18 in	Razor-Back	**20JZ13**
Straight, Ergonomic					
Poly-Coated Fiberglass	48 in	14 ½ in	17 ¾ in	Westward	**4LVR5**

WESTWARD · RAZORBACK PROFESSIONAL TOOLS

4LVR7

Scoops—Steel Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Gauge	Brand	Item No.
D-Grip						
Western						
Fiberglass	27 in	14 ½ in	19 in	16 ga	Westward	**4LVR3**
Eastern						
Ash	27 in	11 in	15 in	16 ga	Westward	**4LVR7**
Straight						
Western						
Fiberglass	46 ¾ in	14 ¼ in	17 ⅞ in	16 ga	Westward	**12U489**
Standard						
Fiberglass	43 in	11 ¼ in	13 ¾ in	14 ga	Westward	**12U493**
Hardwood	48 in	14 ½ in	11 ½ in	14 ga	Razor-Back	**52JM13**

NUPLA · SEYMOUR MIDWEST · Toolite · WESTWARD · TRUE TEMPER

45GV20

Scoops—Poly and Nonsparking Blade

Grip/Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
D-Grip					
Nonsparking					
Fiberglass	27 in	14 ½ in	20 ½ in	Nupla	**4HGC3**
Sifting					
Polypropylene	27 in	14 in	17 in	Seymour Midwest Toolite	**3PGD8**
Standard					
Wood	30 in	14 ²⁵⁄₆₄ in	18 ¾ in	Westward	**45GV20**
Straight					
Hardwood	48 in	14 ¼ in	17 ¾ in	True Temper	**5GTN4**

WESTWARD

Long-Handled Tool Rack

Powder-coated steel rack features 10 convenient, movable hooks to store tools. Includes 4 casters with brakes. Black color.

Overall H	Overall D	Overall W	Load Rating	Item No.
72 in	24 in	36 in	240 lb. (120 lb. per Side)	**48GE61**

1WG36

Rakes

Type/ Handle Material	Handle L	Tine Material	W of Tines	L of Tines	No. of Tines	Brand	Item No.
Asphalt/Road							
Aluminum	36 in	Aluminum	36 in	1 in	24	Razor-Back	**45NC78**
	66 in	Aluminum	17 in	½ in	22	Seymour Midwest Rake	**44VN03**
	66 in	Aluminum	30 in	1 in	20	Seymour Midwest Rake	**41AA82**
	66 in	Aluminum	36 in	1 in	24	Seymour Midwest Rake	**44VZ18**
Wood	52 in	Steel	17 ¾ in	4 in	14	Razor-Back	**20KZ08**
Bow							
Fiberglass	31 ¾ in	Steel	13 in	10 in	16	STANLEY	**468F48**
	60 in	Steel	16 in	3 in	15	Westward	**3YU78**
	60 in	Forged	16 ¼ in		16	Seymour Midwest Structron	**8ZCJ5**
	60 in	Forged Steel	16 ¼ in	3 ¼ in	16	Seymour Midwest Structron	**49DG95**
Seal-Coated Wood	60 in	Steel	16 ¼ in	3 in	16	Westward	**1WG36**
Vinyl-Coated Fiberglass	60 in	Steel	16 ¼ in	2 ½ in	16	Nupla	**3MD40**
Lake-Skims Floating Aquatic Vegetation and Algae From Water and Cleans the Shoreline							
Aluminum	132 in	Aluminum	36 in	2 ½ in	36	Seymour Midwest Rake	**3RFN4**
Landscape							
Aluminum	66 in	Aluminum	24 in	2 ½ in	24	Seymour Midwest Rake	**8CLL7**
	66 in	Aluminum	30 in	2 ½ in	30	Razor-Back	**49AF62**
	66 in	Aluminum	48 in	2 ½ in	48	Seymour Midwest Rake	**9VZE1**
Powder-Coated Aluminum	66 in	Aluminum	36 in	2 ½ in	36	Razor-Back	**48UF78**
Lawn							
Aluminum	54 in	Steel	24 in	13 in	24	Seymour Midwest Rake	**9LDH8**
Vinyl-Coated	48 in	Steel	8 in	7 ½ in	11	True Temper	**5GEA6**
Aluminum	48 in	Steel	18 in	8 in	25	True Temper	**5GEA5**
Vinyl-Coated Steel	48 in	Steel	18 in	7 in	23	Seymour Midwest	**32MJ58**
Wood	47 ¼ in	Poly	24 in	10 ¾ in	26	Westward	**46MP82**
	48 in	Poly	24 in	10 in	11	True Temper	**49AF69**
	48 in	Poly	24 in	2 ½ in	26	Union Tools	**39GA10**
	48 in	Poly	30 in	2 ½ in	30	Union Tools	**39GA12**
	54 in	Steel	23 ½ in	14 ½ in	24	Westward	**1WG30**
Shrub							
Wood	42 in	Poly	8 in	4 ½ in	14	Seymour Midwest Rake	**32MJ62**
	43 in	Poly	8 in	1 ½ in	15	Union Tools	**39GA05**

31MJ65

Hoes

General Purpose—Use for weeding, planting, and other gardening and landscaping activities.

Type/ Handle Material	Handle L	Blade W	Blade L	Brand	Item No.
General Purpose					
Plastic	12 in	3 47/64 in	9 29/64 in	STANLEY	**425R89**
Fiberglass	31 ¼ in	6 17/64 in	5 53/64 in	STANLEY	**468F52**
Wood	54 in	6 ¼ in	4 ¼ in	Razor-Back	**39GA08**
Wood	59 ½ in	6 in	4 ¼ in	Westward	**2MVT3**
Loop					
Aluminum	60 in	4 in	6 in	Seymour Midwest	**31MJ64**
Loop with Cultivator					
Aluminum	60 in	4 in	6 in	Seymour Midwest	**31MJ65**

493V61

Digging and Pry Bars

Digging Bars provide leverage while digging and loosening soil or concrete. Pencil-point models make soil penetration easier. Pry Bars are suitable for prying, levering, and cutting roots.

Overall L	Type	Head Material	Handle Material	Handle	Brand	Item No.	
Digging Bars							
51 in	Standard	Carbon Steel	Carbon Steel	Ball Grip	Westward	**493V61**	
72 in	Pencil Point	Steel	Steel	Chisel End	Westward	**20C887**	
72 in	Pencil Point	Cast Iron	Fiberglass	End Cap Grip	Nupla	**4GFF8**	*
Pry Bars							
48 in	Wedge	Cast Iron	Fiberglass	End Cap Grip	Nupla	**4GFF9**	*
72 in	Wedge	Cast Iron	Fiberglass	End Cap Grip	Nupla	**4GFG1**	*
72 in	Wedge	Steel	Fiberglass	End Cap Grip	Westward	**20C888**	

***** *Certified nonconductive.*

31MJ66

39GA07

2WE79

39GA09

Forks

Type/ Handle Material	Handle Type	Handle L	W of Tines	L of Tines	No. of Tines	Brand	Item No.
Cultivator							
Aluminum	Straight	60 in	5 in	4 ½ in	4	Seymour Midwest	**31MJ66**
Ensilage							
Wood	D-Grip	30 in	¼ in	16 in	10	Razor-Back	**39GA07**
Wood	Straight	48 in	¼ in	10 in	10	True Temper	**49AF68**
Manure							
Wood	Straight	54 in	12 ¾ in	13 ¾ in	6	Westward	**2MVR6**
Wood	Straight	48 in	10 in	12 in	6	True Temper	**2WE79**
Wood	Straight	60 in	⅜ in	10 in	4	Razor-Back	**39GA06**
Potato							
Wood	Straight	54 in	8 ¼ in	8 ½ in	4	Seymour Midwest	**32MJ61**
Wood	Straight	54 in	⅜ in	6 in	4	Razor-Back	**39GA11**
Spading							
Wood	D-Grip	30 in	11/16 in	11 in	4	Razor-Back	**39GA09**

20C885

1THA8

Mattocks and Picks

Hand tools with dual-function heads are excellent for breaking up rocky or hard surfaces such as concrete and packed earth. 22F045 has ductile iron head; others have steel head.

Cutter Mattocks—Have a hoe on 1 end and a cutter blade on the other, to cut and dig roots and cultivate soil.

Pick Mattocks—Broad mattock blades break up hardened soil; particularly good for burrowing, trenching, and hoeing. Pick points penetrate soil.

Railroad Picks—Designed to break up hard, rocky soil and similar materials. Each has chisel point on 1 end. 1THA8 and 4GFF2 have a pick point on the other, 20C884 has a ¾" point on the other. 4GFF2 is nonconductive.

Head Weight	Overall L	Handle	Brand	Item No.
Cutter Mattocks				
5 lb	36 in	Fiberglass w/Molded Grip	Nupla	**1THA7**
Cutter Mattocks Head Only				
5 lb	16 in	—	True Temper	**52JM16**
Pick Mattocks				
5 lb	36 in	Hickory Wood	Westward	**20C883**
5 lb	36 in	Fiberglass w/Textured Grip	Westward	**20C885**
5 lb	36 in	Fiberglass	Nupla	**4GFF1**
Tiller Mattocks				
2 lb	26 in	Hickory	Vaughan	**22F045**
Railroad Picks				
5 lb	36 in	Fiberglass w/Molded Grip	Nupla	**1THA8**
5 lb	36 in	Fiberglass	Nupla	**4GFF2**
6 lb	36 in	Hickory Wood	Westward	**20C884**
22 oz	12.625 in	Steel	Vaughan	**38NF20**
Replacement Handle				
For 20C883, 20C884, or 20C885	36 in	Fiberglass	Westward	**20C886**

Stand Up Weeder

Improved ergonomics with long handle to prevent stooping and bending with knees. 4 serrated claws to pull weeds out of the ground by the roots. Step onto redesigned foot platform to help you break through soil layer. Lightweight aluminum shaft.

Handle L	Blade L	Blade Material	Item No.
39 in	4 in	Stainless Steel	**49AJ37**

Westward

Collapsible Containers

3VB57

Polyethylene containers can be used for storage, leaf collection, or waste disposal. Collapse to 1½"H x 19" dia. Padded handles for comfortable carrying. Internal support spring holds container open. Green color.

Cap.	Dia.	H	Item No.
27 gal	19 in	24 in	3VB57
33 gal	19 in	32 in	3VB58

5NLJ3

Billy Goat

Truck Debris Loader

Ideal for picking up cans, grass clippings, leaves, litter, mulch, plastic bottles, and other bulk items. Clear, flexible intake hose allows for visual inspection and quick removal of hose clogs. Features a dual 4-blade impeller with serrated blades to shred debris for up to 12:1 waste reduction. Steel housing has a replaceable liner for long life and durability. Automatic shut-off when intake hose is disconnected to help improve operator safety. Multiple mounting options.

Description	Item No.
Debris Loader	
Honda Gas Engine, 13HP, Recoil Start with 8" x 10-ft. Intake Hose	5NLJ3
Accessories	
Swing Away Hitch for Curbside Pickup	5NLJ4
Tailgate Hanging Bracket Kit	5NLJ5
Discharge Height Extension Kit, 15⅝"H	5NLJ6
Discharge Hose Extension Kit, 5 ft.	5NLJ7

Westward Jackson True Temper slime

10G167

6YC67

1MRE8

Wheelbarrows and Accessories

Knobby tires provide deep traction for maximum contact. Ribbed tires provide positive steering on hard-packed surfaces.

Steel Tray Wheelbarrows—Drawn trays are pressed from heavy-gauge steel. 4" large curl, ball bearing wheels, and durable chip-resistant finish for added strength. Include cross supports, leg brace, and fully balanced to help prevent accidental tipping and spillage. Models with solid polyurethane tires can run over sharp metal, glass, and even nails.

Poly Tray Wheelbarrows—Seamless polyethylene trays are durable, easy to clean, and corrosionproof. All-steel front tray braces, cross strips, and "H" braces provide extra strength. Steel leg stabilizers help make them tip resistant.

ACCESSORIES

Solid Wheelbarrow Tires—Eliminate changing flat tires. Universal fit 6" ball bearing hub will fit any wheelbarrow.

Slime Smart Tubes—Prefilled with a precise volume of sealant to seek out and seal punctures. Prevent flats up to ⅛".

Description	Holding Cap.	Handle Material	Tire Size	Tire Tread	Brand	Item No.
Steel Tray Wheelbarrows						
Seamless Steel Tray with Single Pneumatic Rubber Wheel	6 cu ft	Hardwood	4.00/4.00-8	Knobby	Westward	10G166
Seamless Steel Tray with Single Solid Polyurethane Wheel	6 cu ft	Hardwood	4.00/4.00-8	Ribbed	Westward	10G167
Folded Steel Tray with Single Pneumatic Rubber Wheel	6 cu ft	Hardwood	4.00/4.00-8	Knobby	Westward	10G168
Folded Steel Tray with Dual Pneumatic Rubber Wheels	8 cu ft (Sand), 32 gal (Water), 500 lb (Loading)	Hardwood	4.00/4.00-8	Knobby	Westward	20KP46
Poly Tray Wheelbarrows						
Dual Pneumatic Rubber Wheels	8 cu ft	Hardwood	4.00/4.00-8	Ribbed	Westward	10G165
Solid Wheelbarrow Tires						
Polyurethane Foam	—	—	4.00/4.00-8	Ribbed	Westward	10G169
Rubber Skinned Foam Rubber	—	—	3.75/4.00-8	Ribbed	Jackson	6YC67
Polyurethane Foam	—	—	4.00/4.00-8	Knobby	Westward	10G170
Rubber Skinned Foam Rubber	—	—	3.75/4.00-8	Knobby	True Temper	4GU60
Slime Smart Tubes						
Pneumatic Tire Flat Prevention	—	—	4.80/4.00-8	—	Slime	1MRE8
	—	—	4.10/3.50-6	—	Slime	1MRE9

60GV41

53UE04

Powered Backpack Sprayers

solo® BLACK&DECKER

The ergonomic shape and thick, padded straps with hip belt keep user comfortable during large spraying jobs. Features wand holder and level fill markings on the tank. 60GV41 features padded carrying straps, antivibration system and pistol-grip handle.

Description	Tank Cap.	Hose L	Nozzle Type	Brand	Item No.
Gas Powered					
66.5cc Engine	3 gal.	3.5 ft	Adjustable Mist	Solo	60GV41
Battery Powered					
20V Maintenance Free Lithium-ion Battery	4 gal	42 in	Adjustable Cone, Fan	Black & Decker	35HX49
12V Maintenance Free Lithium-ion Battery	5 gal	5 ft	Flat Fan	Solo Inc.	48XL86
Air Powered					
Effective Piston Pump with 4-stage Pressure Regulator.	4 gal	48 in	—	Solo	53UE04

2TRG5

35HX48

3JEK7

solo® Field King Westward Chapin

Backpack Sprayers

Lawn/Garden models are ideal for spraying fertilizers. 3LGG7, 6FJE2, 14U074, 2TRG4, and 3JEK7 can be used with wettable powders. Bleach and Disinfectant models can be used to help control algae, mold, and mildew. Sprayer accessories available on Grainger.com.

Tank Cap.	Hose L	Wand Material	Nozzle Type	Brand	Mfr. Model	Item No.
Lawn/Garden						
3 gal	48 in	Polypropylene	Adjustable Cone, Fan	Solo	473D	3LGG7
3 gal	48 in	Polypropylene	Adjustable Cone, Fan	Solo	473P	3LGG5
4 gal	4 1/6 ft	Polypropylene	Adjustable, Flat Fan and Foaming	Field King	190350	16X104
4 gal	48 in	Polypropylene	Cone, Fan	Westward	—	36N340
4 gal	48 in	Polypropylene	Adjustable Cone, Fan	Chapin	61500	11K008
4 gal	48 in	Plastic	Adjustable Cone, Jet	Chapin	60100	416P32
4 gal	48 in	Plastic	Adjustable Cone, Fan	Chapin	61505	416P42
4 gal	4 1/6 ft	Polypropylene	Adjustable (2) Flat Fans and Foaming	Field King	190328	6FJE2
4 gal	4 1/6 ft	Stainless Steel	Adjustable, Flat Fan and Foaming	Field King	190348	14U074
4 gal	48 in	Polypropylene	Adjustable Cone, Fan	Chapin	61800	2KDY1
4 gal	48 in	Polypropylene	Adjustable Cone, Fan	Chapin	64800	2TRG4
4 gal	48 in	Chrome, Stainless Steel	Adjustable Cone, Fan	Chapin	61900	2TRG5
4 gal	48 in	Brass	Adjustable Cone, Fan	Chapin	62000	2TRG2
4 gal	42 in	Stainless Steel	Adjustable Cone, Fan	Chapin	63900	35HX48
Bleach and Disinfectants						
4 gal	48 in	Polypropylene	Adjustable Cone	Chapin	61575	11K567
4 gal	48 in	Polypropylene	Adjustable, Flat Fan, Jet Stream, and Hollow Cone	Solo	475-B	3JEK7

3JEH9

2ZV91

51RN54

CHAPIN solo® WESTWARD D.B.Smith

Insecticide and Garden Sprayers

Portable sprayers are ideal for smaller jobs and suitable for weed control, pesticides, and fertilizing. 6KY32 includes a fogging nozzle. 3JEH7 and 3JEH9 include 4 nozzles. 21AC29 and 21AC30 include adjustable brass cone nozzle. 416P43 features an in-tank filter. 14U075 and 14U076 include 5 nozzles and an inline filter.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	In Tank Filter	Brand	Item No.
Insecticide						
Polyethylene Tank						
1 gal	34 in	Polypropylene	Fine Misting	Yes	Chapin	**6KY32**
1 ½ gal	48 in	Polypropylene	Adjustable, Flat Spray	Yes	Solo	**3JEH7**
2 ¼ gal	48 in	Polypropylene	Adjustable, Flat Spray	Yes	Solo	**3JEH9**
Stainless Steel Tank						
1 ½ gal	48 in	Brass	Fan, Injector	No	Chapin	**39E761**
Lawn and Garden						
Polyethylene Tank						
¼ gal	Hose Not Included	Wand Not Included	Adjustable	Yes	Solo	**41AA37**
½ gal	Hose Not Included	Polypropylene	Adjustable Cone	Yes	Chapin	**3LGF4**
1 gal	34 in	Polypropylene	Adjustable Cone	Yes	Chapin	**2ZV91**
1 gal	34 in	Polypropylene	Adjustable Cone	Yes	Westward	**12U469**
1 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**21AC29**
1 gal	42 in	Polypropylene	Adjustable Cone	Yes	Westward	**12U480**
2 gal	34 in	Polyethylene	Adjustable Cone	Yes	Chapin	**6PKJ5**
2 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**35HX46**
2 gal	46 in	Brass	Adjustable Cone	Yes	Westward	**39D762**
2 gal	48 in	Poly	—	Yes	Chapin	**416P43**
3 gal	34 in	Polyethylene	Adjustable Cone	Yes	Chapin	**6PKJ6**
3 gal	36 in	Polypropylene, Viton®	—	Yes	Chapin	**3LGE3**
3 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**21AC30**
4 gal	48 in	Polyproylene	Adjustable, Flat Fan, Jet Stream, and Hollow Cone	Yes	Solo	**3JEJ4**
Stainless Steel Tank						
2 gal	42 in	Brass	Adjustable Cone	No	Chapin	**6KY39**
2 gal	42 in	Brass	Adjustable cone	Yes	Chapin	**41AA36**
Steel Tank						
2 gal	42 in	Brass	—	No	Chapin	**3JEV5**
3 gal	42 in	Brass	Adjustable Cone	Yes	Chapin	**41AA34**
Commercial-Grade Lawn and Garden/Insecticide Cleaning/Sanitizing						
Polyethylene Tank						
2 gal	4 1/6 ft	Polypropylene	Adjustable, Flat Fan and Foaming	No	D.B. Smith	**14U075**
3 gal	4 1/6 ft	Polypropylene	Adjustable, Flat Fan and Foaming	No	D.B. Smith	**14U076**
3 gal	36 in	Aluminum	—	Yes	Smith Sprayers	**51RN54**

SMITH INDIAN FIRE PUMP

Fire Pumps

Excellent pumps to suppress and prevent fires in remote locations. Dual-cone nozzle allows change from straight stream to cone spray without tools. Hold 5 gal.

3EJT3

Features	Tank Material	Hose Length	Item No.
Padded Strap and Lumbar Support	Polyethylene	50 in	**22FH65**
Collapsible Tank	Vinyl	48 in	**8NEZ9**
Lumbar Support and Carrying Handle	Polyethylene	50 in	**3EJT2**
Tank with Ventilated Backrest, Polypropylene Straps, and Carrying Handle	Galvanized Steel	30 in	**3EJT3**
	Stainless Steel	30 in	**3EJT4**

30HE90

416P34

12U478

CHAPIN D.B.Smith WESTWARD solo®

Janitorial/Sanitation Sprayers

Ideal for use with cleaning agents. Sprayers feature poly tank, adjustable cone nozzle, and Viton seals and gaskets.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.
Bleach Janitorial/Sanitation Sprayer					
Polyethylene Tank					
1 gal	34 in	Polypropylene	Adjustable Cone	Chapin	**3EJR8**
Foaming Janitorial/Sanitation Sprayers					
2 gal	36 in	Polypropylene	Adjustable, Foaming	D.B. Smith	**30HE90**
½ gal	Hose Not Included	Polypropylene	Adjustable	Chapin	**2TRH3**
Plastic Tank					
¼ gal	Hose Not Included	Plastic	Adjustable Hose End, Foaming	Chapin	**416P34** *
Janitorial/Sanitation Sprayers					
Polyethylene Tank					
1 gal	34 in	Polypropylene	Adjustable Cone	Westward	**12U478**
1 gal	42 in	Polypropylene	Adjustable Cone	Westward	**12U481**
1 gal	42 in	Polypropylene	Adjustable	Chapin	**2TRG8**
1 gal	5 ft	Polyethylene	Adjustable Cone	Chapin	**52XH72**
2 gal	42 in	Polypropylene	Adjustable Cone	Westward	**12U475**
2 gal	42 in	Polypropylene	Adjustable	Chapin	**2TRG9**
2 gal	5 ft	Polyethylene	Adjustable Cone	Chapin	**52XH73**
3 gal	42 in	Polypropylene	Adjustable Cone	Westward	**12U476**
3 gal	42 in	Polypropylene	Adjustable	Chapin	**2TRH1**
3 gal	10 ft	Polyethylene	Adjustable Cone	Chapin	**52XH74**
HDPE Tank					
1 21/64 gal	48 in	Polypropylene	Adjustable Cone	Solo	**53UE01** †
1 21/64 gal	48 in	Polypropylene	Adjustable Cone	Solo	**53UD99**
1 27/32 gal	48 in	Polypropylene	Adjustable Cone	Solo	**53UE03** †
1 ½ gal	48 in	Polypropylene	Adjustable Cone	Solo	**53UE02**
11/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD96** †
11/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD95**
13/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD94** †
13/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD93**
17/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD98** †
17/32 gal	Hose Not Included	Polypropylene	Adjustable Cone	Solo	**53UD97**

** Seal/gasket material is nitrile. † Seal/gasket material is EPDM. All others are Viton.*

CHAPIN WESTWARD D.B.Smith solo®

Cleaning/Degreasing Sprayers

39D763

Sprayers are acid- and chemical-resistant. Suitable for indoor/outdoor cleaning.

Tank Cap.	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.
General Use Sprayers					
Plastic Tank					
¼ gal	—	Polyethylene	Metering Dial	Chapin	**416P33** *
Polyethylene Tank					
2 gal	46 in	Polyethylene	Adjustable Cone	Westward	**39D763**
3 gal	46 in	Polyethylene	Adjustable Cone	Westward	**39D764**
3 gal	46 in	Brass, Polyethylene	Adjustable Cone	Westward	**39D765**
Industrial Use Sprayers					
Polyethylene Tank					
1 gal	36 in	Polypropylene	Adjustable, Foaming	D.B. Smith	**30HE89**
2 gal	42 in	Polyethylene	Adjustable Cone	Chapin	**35HX47**
2 gal	48 in	Plastic	Adjustable, Jet, Fan, Cone	Solo	**16T951**
3 gal	36 in	Brass	0.5 gpm, Fan	Chapin	**21AC36**
3 gal	42 in	Polyethylene	Adjustable Cone	Chapin	**21AC35**
Stainless Steel Tank					
2 gal	42 in	Brass	Adjustable Cone	Chapin	**6Z169**
3 gal	42 in	Brass	Adjustable Cone	Chapin	**4W499**
Pump Sprayers					
Polyethylene Tank					
31/64 gal	Hose Not Included	Brass	Adjustable Cone	Westward	**12U473**
½ gal	Hose Not Included	Brass, Polypropylene	Adjustable	Chapin	**6KY28**

** Seal/gasket material is nitrile. All others are Viton.*

4Z122

6PKJ4

39D767

Concrete and Etching/ Acid Staining Sprayers

Concrete—Spray solutions up to 30% to 35% solids. Chemical-resistant models are resistant to acetone, naphtha, xylene, and toluene.

Etching/Acid Staining—Use for staining concrete. Acid- and chemical-resistant seals and gaskets.

Tank Cap.	Tank Material	Hose L	Wand Material	Nozzle Type	Brand	Item No.
Concrete						
3 gal	Polyethylene	36 in	Brass	Adjustable	Chapin	**21AC33**
3 gal	Polyethylene	5 ft	Brass, Polypropylene	¼ GPM Fan Nozzle and Adjustable Poly Nozzle	Chapin	**41AA35**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**4Z122**
Concrete with Schraeder Valve for Compressed Air Hook-Up						
3 gal	Steel	36 in	Brass	—	Chapin	**3JEN6**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**6PKJ4**
Concrete (Chemical Resistant)						
3 gal	Polyethylene	48 in	Brass	Adjustable	Chapin	**21AC31**
3 ½ gal	Steel	48 in	Brass	Adjustable	Chapin	**2ZV89**
3 ½ gal	Stainless Steel	48 in	Brass	Adjustable	Chapin	**2TRG7**
Etching/Acid Staining						
2 gal	Polyethylene	38 in	Polypropylene	Adjustable Cone	Westward	**39D767**
2 gal	Polyethylene	42 in	Polyethylene	Adjustable Cone	Chapin	**21AC34**
Deck Staining						
1 gal	Polyethylene	34 in	Polypropylene	Fan	Chapin	**2ZV90**

39D766

2Z706

3XL41

Industrial Sprayers

Handheld Sprayers—Rugged construction with brass accessories for everyday industrial use. Wide openings permit easy cleaning and filling.

Water Supply Tank—For industrial cutting tool applications. Use with standard garden hose.

Cart Sprayer—Includes 2-wheeled cart with handle.

Tank Cap.	Tank Material	Hose L	Wand/Nozzle Material	Nozzle Type	Brand	Item No.
Handheld Sprayers						
3 gal	Polyethylene	46 in	Brass	Adjustable Cone	Westward	**39D766**
3 gal	Polyethylene	36 in	Brass	0.5 gpm, Fan	Chapin	**21AC32**
3 gal	Steel	42 in	Brass	Adjustable Cone	Chapin	**2Z707**
Handheld Sprayer with Funnel Top						
3 ½ gal	Steel	42 in	Brass	Adjustable Cone	Chapin	**2Z706**
Water Supply Tank						
3 gal	Polyethylene	—	—	—	Chapin	**2TRG1**
Cart Sprayer						
6 gal	Stainless Steel	10 ft	Brass	Adjustable Cone	Chapin	**3XL41**

416P35

197Y30

36FL46

6HKZ2

4NED9

4NED5

Spot, Trailer, ATV, and Skid Sprayers

Sprayers are large enough to apply insecticides and herbicides to lawns, acreages, fence rows, and ditches. Fimco sprayers are made of corrosion-resistant poly and include a full-length drain sump and handgun nozzle. Chapin sprayers feature chemical-resistant tanks. 416P35 to 416P37 include a triple filtration system that helps extend life of sprayer. 4NED5 is equipped with a pump kit that fits most roller pumps. Use with 3YB55, 6-roller pump, sold on page 2693.

Tank Cap.	Flow Rate	PSI	Hose L	Vertical Spray	Horizontal Spray	Pump	Brand	Item No.
Spot Sprayers								
15 gal	1.0 gpm	35 psi	15 ft	12 ft	25 ft		Fimco	**4NEC5**
15 gal	1.0 gpm	40 psi	15 ft	18 ft	18 ft		Chapin	**416P35**
15 gal	2.1 gpm	60 psi	15 ft	25 ft	35 ft		Fimco	**4NEC9**
25 gal	1.2 gpm	35 psi	15 ft	12 ft	25 ft	Diaphragm	Fimco	**4NEC6**
25 gal	2.1 gpm	60 psi	15 ft	25 ft	35 ft		Fimco	**4NEC8**
25 gal	2.2 gpm	60 psi	15 ft	26 ft	30 ft		Chapin	**416P36**
40 gal	3.8 gpm	45 psi	25 ft	26 ft	35 ft		Fimco	**4NED6**
Trailer Sprayers								
20 gal.	—	—	—	—	—	Diaphragm	Fimco	**197Y30**
25 gal	2.2 gpm	70 psi	15 ft	30 ft	26 ft	12V Diaphragm	Chapin	**416P37**
30 gal.	—	—	—	—	—	Diaphragm	Fimco	**197Y31**
60 gal	3.8 gpm	45 psi	25 ft	26 ft	35 ft	12V Diaphragm	Fimco	**4NED8**
ATV Sprayers								
15 gal	2.4 gpm	60 psi	15 ft	15 ft	30 ft		Fimco	**36FL45**
25 gal	2.1 gpm	60 psi	15 ft	15 ft	30 ft	Diaphragm Demand	Fimco	**36FL46**
25 gal	3.8 gpm	45 psi	15 ft	26 ft	35 ft		Fimco	**36FL48**
25 gal	3.8 gpm	45 psi	15 ft	26 ft	35 ft	Diaphragm	Fimco	**453F65**
Skid Sprayers								
40 gal	3.8 gpm	45 psi	15 ft	26 ft	43 ft		Fimco	**8C401**
60 gal	2.1 gpm	60 psi	25 ft	25 ft	35 ft	Diaphragm	Fimco	**4NEE2**
100 gal	2.0 gpm	60 psi	50 ft	20 ft	20 ft		TurfEx	**6HKZ2**
300 gal	10.6 gpm	580 psi	300 ft	37 ft	49 ft		Fimco	**4NED9**
Utility Sprayer								
5 gal	1.0 gpm	35 psi	15 ft	12 ft	25 ft		Fimco	**4NED7**
12 gal	1.0 gpm	60 psi	8 ft	10 ft	15 ft	12V Diaphragm	TurfEx	**16V882**
12 gal	1.0 gpm	60 psi	8 ft	10 ft	15 ft		TurfEx	**16V883**
Three-Point Hitch Sprayers								
55 gal	—	—	25 ft	33 ft	48 ft	Diaphragm	Fimco	**4NED5**

Description	Brand	Item No.
12V Diaphragm Pumps		
1.2 gpm, For Use with Nos. 4NEC5, 4NEC6, and 4NED7	Fimco	**499K33**
2.4 gpm, For Use with Nos. 4NEC9, 4NEC8, 4NED2, 4NED3, 4NED4, 4NED7 and 4NEE2	Fimco	**499K32**
4.5 gpm, For Use with Nos. 4NED6, 4NED8, and 4NED1	Fimco	**499K31**
Inline Lever Pistol Grip Handguns		
29"L, 100 psi, ⅜" Connection, Aluminum Extension	Fimco	**4NEE7**
19"L, 300 psi, ⅜" Connection, Aluminum Extension	Fimco	**4NEE6**

BERNZOMATIC FLAME ENGINEERING INC. SIEVERT Swedish design and quality since 1882

Propane Weed Burner Torches

Easy-to-use method for controlling weeds. Ideal for use around rocks, pavers, driveways, and along fences. Can be used to melt snow and ice on driveways, sidewalks, and steps.

Hand Torches and Torch Kits—Ideal for spot weeding and pin-point flaming where a full continuous flame is not needed. Require a standard vapor withdrawal cylinder.

Shop Torch Kit—Ideal for small jobs where a large torch is too powerful or difficult to use.

Backpack Torch Kit—Excellent for spot weeding or where a continuous full flame is not required. Suitable for forest service use, farm, garden, and municipalities.

Description	Propane BtuH	Brand	Item No.
Hand Torches with 1-lb. Cylinder Connector			
36" L Self-Igniting	20,000	Bernzomatic	**3DPW7**
28" L with Spark Lighter	25,000	Flame Engineering	**8WU23**
Hand Torch with 20-lb. Cylinder Connector, 3"-dia. Bell, 10-ft. Gas Hose, and Spark Lighter			
33"L	500,000	Flame Engineering	**8N088**
Torch Kit with Handle Assembly and Regulator for Disposable Propane Cylinder			
13"L Handle with 4-ft. Gas Hose	20,000	Sievert	**23PF37**
Torch Kits with Squeeze Valve, Adjustable Pilot, and Spark Lighter			
20"L Universal Handle, Mini Dragon	25,000	Flame Engineering	**45RL14**
40"L Handle with 10-ft. Gas Hose	500,000	Flame Engineering	**21AC88**
46"L Handle with 25-ft. Gas Hose	1,000,000 BTU	Flame Engineering	**8YCW3**
90"L Handle with 25-ft. Gas Hose	2,000,000 BTU	Flame Engineering	**8CTY9**
Shop Torch Kit with 10"L Handle, Torch Stand, 10-ft. Gas Hose, Adjustable Needle Valve, and Low Pressure Regulator			
1½" Bell End	50,000	Flame Engineering	**21AC89**
Backpack Torch Kit with 5-ft. Gas Hose, Squeeze Valve, Adjustable Pilot, and Spark Lighter			
40"L	400,000	Flame Engineering	**9RCF3**
Propane Cylinder Hand Truck			
For 20 to 40-lb. Cylinders	—	—	**8D060**

OSM inc. Natural Solutions for a Natural World

Fish and Seaweed Liquid Fertilizer

All-natural formula prolongs nutrient availability and improves soil structure. Environmentally safe and complementary to any sustainability program. OMRI Listed.

Size	Item No.
1 gal	**6AHZ3**
5 gal	**6AHZ4**

Spectracide Enforcer MONSANTO OSM inc. PROMAX Dow Dow AgroSciences

Herbicides and Horticultural Vinegar

All herbicides meet EPA standards.

Grass and Weed Killer—Available in RTU and concentrated formulas. Concentrate comes in 32-oz. bottles that make up to 10 gal. of usable product. Spectracide Weed and Grass Killer is a nonselective herbicide that will kill any plant that it comes into contact with.

Vegetation Killer—Works in soil and is soil active. Use on driveways, patios, and sidewalks to kill a variety of vegetation. Provides visible results in 24 hours and prevents regrowth for up to 1 year if applied as instructed.

Tree and Brush Killer—5WXR8 kills cut stumps and stops resprouts. Features a blue dye to let you keep track of treated stumps. 8MJY0 is for broad-spectrum control of brush, broadleaf weeds, and multiple woody species.

Description	Size	Contains	Brand	Item No.
Grass and Weed Killer				
WeedStop for Lawns Plus Crabgrass Control, RTU	1 gal	0.25% Dimethylamine Salt	Spectracide	**56EC11**
RTU	1.33 gal	0.12% Diquat Dibromide	Spectracide	**36WG58**
Concentrate	32 oz	0.77% Dicamba, 1.15% Fluazifop-P-Butyl, 2.30% Diquat Dibromide	Spectracide	**52LA86**
	1 gal	41.0 % Glyphosate	Enforcer	**53YV99**
	5 gal	41.0 % Glyphosate	Enforcer	**53YW01**
	55 gal	41.0 % Glyphosate	Enforcer	**53YW02**
Lawn Weed Killer				
Roundup QuikPro, Dry Concentrate	7.5 oz	73.3 % Glyphosate 2.9% Diaquat	Monsanto	**8MJX9**
	6.8 lb	73.3 % Glyphosate 2.9% Diaquat	Monsanto	**8DMY8**
Horticultural Vinegar Weed Killer, RTU	1 gal	20% Acetic Acid	OSM	**38N634**
	55 gal	20% Acetic Acid	OSM	**38N635**
Vegetation Killer				
Concentrate	2.5 gal	48.7 % Glyphosate	Promax	**49ZY81**
Tree and Brush Killer				
Tordon Liquid, RTU	1 qt	Picloram	Dow AgroSciences	**5WXR8**
Garlon 4 Ultra, Liquid Concentrate	2.5 gal	Triclopyr	Dow AgroSciences	**8MJY0**

WESTWARD DeWitt DOWN TO EARTH PROTECTION

Landscape Fabric, Plant Protection, and Weed Barrier

Anchor Pins—11-ga. steel pins can also be used on drip irrigation tubing.

Landscape Fabric and Weed Barrier—Tear-resistant Landscape Fabric helps control weed growth, and is striped every 12" to aid with plant alignment. Weed Barrier blocks weeds and conserves moisture, while allowing air, water, and nutrients to reach plants.

Plant Protection—Lets through air and moisture, while helping protect plants and flowers from freezing temperatures.

Size	Brand	Item No.	Pkg. Qty.
Anchor Pins			
6 in x 1 in	Westward	**31NG31**	75
6 in x 1 in	Westward	**31NG29**	500
Landscape Fabric			
3 x 250 ft	Dewitt	**444N74**	1
Landscape Fabric, Nonwoven 3 oz.			
3 x 50 ft	Westward	**31NG25**	1
4 x 300 ft	Westward	**31NG32**	1
Landscape Fabric, Nonwoven 5 oz.			
6 x 250 ft	Westward	**31NG23**	1
Landscape Fabric, Woven 5 oz.			
4 x 250 ft	Westward	**31NG28**	1
Plant Protection Fabric			
3 x 250 ft	Dewitt	**444N75**	1
6 x 250 ft	Dewitt	**444N76**	1
10 x 12 ft	Westward	**31NG33**	1
12 x 250 ft	Westward	**31NG34**	1
Weed Barrier			
3 x 300 ft	Westward	**31NG26**	1
6 x 300 ft	Westward	**31NG27**	1
Weed Barrier, 3 oz.			
6 x 300 ft	Westward	**31NG24**	1

DeWitt DOWN TO EARTH PROTECTION

Tree Grates and Mats

Increase survivability and improve growth in tree and shrub plantings.

All black plastic **Tree Grates** are lightweight and easy to install. Center opening can be expanded with standard saw blade.

Tree Mats conserve moisture and stop weed growth without chemicals and eliminate the need for mulch or rock cover. Black color.

Description	Size	Brand	Item No.
Tree Grates			
Round	3 ft x 3 ft	—	**8DL86**
	4 ft x 4 ft	—	**8NKV1**
	5 ft x 5 ft	—	**8DJD4**
Square	4 ft x 4 ft	—	**8W945**
	5 ft x 5 ft	—	**9WJG7**
Tree Mats			
Uncut	3 x 3 ft	Dewitt	**12W288**
	4 x 4 ft	Dewitt	**12W291**
Slit-Cut	3 x 3 ft	Dewitt	**12W289**
	4 x 4 ft	Dewitt	**12W292**
X-Cut	3 x 3 ft	Dewitt	**12W290**
	4 x 4 ft	Dewitt	**12W293**

ECHO Makita

Gas-Powered Chain Saws

- Antivibration handles
- Bar/chain and oil
- 2-cycle

For chain saw chaps, see page 1739. See Grainger.com for chain saws, bars, chains, sharpeners, and oil.

ECHO—Feature digital ignition system, purge bulb, integrated choke, and side access chain tensioner.

Makita—Features large metal spike bar and toolless chain tension adjustment.

Bar L	Engine Displacement	Fuel Tank Cap.	Chain Oiler	Brand	Mfr. Model	Item No.
Top Handle						
12 in	26.9 cc	8.1 oz	Auto/Adjustable	Echo	CS-271T-12	**44X150**
14 in	35.8 cc	11.2 oz	Auto/Adjustable	Echo	CS-355T-14	**44X154**
Rear Handle						
14 in	30.5 cc	8.5 oz	Automatic	Echo	CS-310-14	**44X152**
16 in	42 cc	16.2 oz	Auto/Adjustable	Makita	EA4300FRDB	**53TE35**
18 in	40.2 cc	13.9 oz	Auto/Adjustable	Echo	CS-400-18	**44X158**
	45.0 cc	15.2 oz	Auto/Adjustable	Echo	CS-4510-18	**425W06**
	59.8 cc	21.8 oz	Auto/Adjustable	Echo	CS-590-18	**52DD59**
20 in	50.2 cc	16.9 oz	Auto/Adjustable	Echo	CS-501P-20	**52WN51**
	59.8 cc	21.8 oz	Auto/Adjustable	Echo	CS-590-20	**20KC05**
24 in	59.8 cc	21.8 oz	Auto/Adjustable	Echo	CS-620P-24	**52WN52**
ECHO Chain Saw Case						
	Fits ECHO Saws With Up to 24"L Bar			Echo	99988801211	**44X163**

DEWALT EGO Makita

Electric- and Battery-Powered Chain Saws

For chain saw chaps, see page 1739. See Grainger.com for chain saws, bars, chains, sharpeners, and oil.

DEWALT

Brushless chainsaws deliver the performance of gas with the convenience of cordless. Auto-oiling for delivering smooth cuts. Tool-Free tensioning system allows for quick bar and chain adjustments with no additional tools required.

EGO BATTERY-POWERED

A tensioning knob lets you adjust chain tension with no need for tools.

MAKITA BATTERY-POWERED

These tools have an electric brake. 53RF95 requires (2) LXT 18V batteries (not included).

Bar L	Battery Voltage	Chain Oiler	Includes	Brand	Mfr. Model	Item No.
Battery-Powered						
12 in	20 V	Automatic	Hard Bar Cover	DeWalt	DCCS620B	**423K75**
	20 V	Automatic	Battery, Charger, Hard Bar Cover	DeWalt	DCCS620P1	**423K76**
16 in	60 V	Automatic	Bar Cover	DeWalt	DCCS670B	**458P07**
Bare Tool, Top-Handle						
16 in	56 V	Auto/ Adjustable	—	Ego	CS1600	**49AY39**
Rear-Handle						
14 in	18 V	Automatic	(2) Batteries, Charger, Guide Bar Cover	Makita	XCU03PT	**53RF94**
16 in	60 V	Automatic	3.0 Ah Lithium Ion Battery, Charger, Hard Bar Cover	DeWalt	DCCS670X1	**53JH21**
Top-Handle						
10 in	18 V	Automatic	—	Makita	XCU06Z	**54XJ32**
14 in	18 V	Automatic	Guide Bar Cover	Makita	XCU03Z	**53RF95**
	56 V	Auto/ Adjustable	2.0Ah Lithium-Ion Battery, 56V, Chain Sheath, Charger	Ego	CS1401	**38ZE08**
16 in	56 V	Auto/ Adjustable	5.0Ah Lithium-Ion Battery, 56V, Chain Sheath, Charger	Ego	CS1604	**49AY40**
Corded Electric-Powered						
Rear-Handle						
14 in	—	Automatic	Bar, Bar Cover, Chain	Makita	UC3551A	**6MYC9**
16 in	—	Automatic	Bar, Bar Cover, Chain	Makita	UC4051A	**6MYD0**

Description	Mfr. Model	Item No.
DeWalt Accessories		
40V MAX Series Li-Ion Battery, 40V, 6.0Ah	DCB406	**40CA30**
40V MAX Series Battery Charger	DCB116	**52JL96**
XR Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
14" Chain Saw Replacement Bar	AG1400	**38ZE19**
Rapid Charger	CH5500	**38ZE14**
Charger	CH2100	**38ZE12**

Description	Mfr. Model	Item No.
Makita Accessories		
LXT Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT Battery, Pkg. of 2	BL1830B-2	**6CFC2**
18V LXT Battery Charger	DC18RC	**4NNN4**
36V LXT Battery	BL3626	**14F063**

ECHO Makita

Gas-Powered Hedge Trimmers

Double-sided blade offers efficient cutting. Ergonomic loop handle for improved balance.

2-Stroke 492R45 and 44X177—Feature tip guard, front hand safety guard, blade guard, and i-30 starting system for quicker starts. 44X177 has a vibration-reduction system for more comfortable use.

4-Stroke 20VG40—A commercial-duty gear case with tip guard, heavy-duty dual-stage air filter, steel drive shaft, and multi-position lubrication system.

Bar L	Engine Displacement	Blade Type	Max. Cutting Dia.	Fuel Tank Cap.	Brand	Mfr. Model	Item No.
2 Stroke							
21 in	25.4cc	Double-Sided	1 in	20 oz	Echo	HCA-2620	**425W10**
20 in	21.2cc	Double-Sided	1 in	13.2 oz	Echo	HC-2020AA	**492R45**
	21.2cc	Double-Sided Pole	¾ in	14.9 oz	Echo	SHC-225	**44X177**
30 in	21.2cc	Single-Sided	1 in	12.5 oz	Echo	HCS-2810	**52WN53**
4 Stroke Gas							
24 in	25.4cc	Double-Sided	9/32 in	20.3 oz	Makita	EN5950SH	**20VG40**

Makita DEWALT Milwaukee EGO

Electric- and Battery-Powered Hedge Trimmers

ELECTRIC-POWERED

2-handed operation switch for safety.

BATTERY-POWERED

20V DeWalt 48ZE98—Features laser-cut blades and friction clutch.

18V LXT 20KR55—Battery and charger sold separately.

18V X2 LXT 20KR57—6-speed dial lets you match speed to application, and a 5-position rotating rear handle adjusts for comfortable vertical and angle trimming. LED battery gauge.

Milwaukee—49JU95 Hedge trimmer features slider crank mechanism and all metal gear case. Extended distance from the bail handle to the trigger for greater control. Tip guard prevents damage to the blade. 49JU96 is bare tool without charger and battery pack.

Bar L	Battery Voltage	Blade Type	Max. Cutting Dia.	Includes	Brand	Mfr. Model	Item No.
Battery-Powered							
22 in	18V	Double-Sided	1/32 in"	18V, Lithium-Ion Battery, Blade Cover, Charger	Makita	XHU02M1	**53YK03**
	20V	Double-Sided	¾ in"	Battery, Charger	DeWalt	DCHT820P1	**48ZE98**
	20V	Double-Sided	¾ in"	(1) Battery, Pole Hedge Trimmer, (1) Hedge trimmer head, (1) Pole back end, (1) Blade sheath, (1) Shoulder strap	DeWalt	DCPH820B / DCB205	**65DG55**
24 in	18V	Double-Sided	¾ in"	High Demand Battery, Rapid Charger	Milwaukee	2726-21HD	**49JU95**
25 ½ in	18V	Double-Sided	9/16 in"	Blade Cover	Makita	XHU04Z	**53RF96**
	18V	Double-Sided	9/16 in"	(2) Battery, Blade Cover, Charger	Makita	XHU04PT	**53RF92**
Bare Tool							
22 in	20V	Double-Sided	¾ in"	—	DeWalt	DCHT820B	**48ZE97**
	—	Double-Sided	9/16 in"	—	Makita	XHU02Z	**20KR55**
24 in	18V	Double-Sided	¾ in"	—	Milwaukee	2726-20	**49JU96**
Bare Tool, (2) Battery and Charger, Sold Separately							
25 ½ in	—	Double-Sided	9/16 in"	—	Makita	XHU04Z	**20KR57**
Corded Electric-Powered, 120VAC, 4.8Ah							
Bare Tool							
22 in	—	Double-Sided	½ in"	—	Makita	UH5570	**6MYD1**
24 in	56V	Single-Sided	¾ in"	—	Ego	HT2400	**453F07**
25 in	—	Double-Sided	½ in"	—	Makita	UH6570	**6MYD2**

Description	Mfr. Model	Item No.
Makita Accessories		
LXT Series 18V Li-Ion Battery	BL1830B	**4NNN2**
18V LXT Battery, Pkg. of 2	BL1830B-2	**6CFC2**
18V LXT Battery Charger	DC18RC	**4NNN4**
36V LXT Battery	BL3626	**14F063**

Description	Mfr. Model	Item No.
DeWalt Accessories		
40V, 4.0Ah Battery	DCB404	**40CA29**
40V Charger	DCB114	**40CA31**
XR Series Li-Ion Battery, 40V, 7.5Ah	DCB407	**48ZE86**
40V MAX Series Battery Charger	DCB116	**52JL96**
EGO Power Plus Accessories		
Power+ Series, 56V, 2.5Ah Li-Ion Battery	BA1400T	**54YP21**
Charger	CH2100	**38ZE12**
Rapid Charger	CH5500	**38ZE14**

ECHO

Gas-Powered Pruners

45A331

Both models feature side-access chain tensioner and easy-to-grasp ergonomic handles with rubber over-mold for added comfort and handling. 45A331 features 7.6 fl. oz. oil reservoir with easy-fill opening, rubber left and right handle grips, and shoulder strap. 425W08 has a large 20.6 fl. oz. fuel tank for extended run time.

Description	Bar L	Overall L	Engine Displacement	Mfr. Model	Item No.
Gas-Powered Pruners					
Fixed Shaft	10 in	93 in	21.2 cc	PPF-225	**45A331**
Telescoping Shaft	12 in	148 in	25.4 cc	PPT-2620	**425W08**
Pruner Extensions					
3-ft. Length for Use with 45A331	—	—	—	99946400011	**45A337**

FISKARS® WESTWARD® CORONA SEASON AFTER SEASON JAMESON

Tree Pruners

49Z429

Ideal for clearing away tree branches in the path of CATV aerial lines and in telecommunication applications.

5KRE8

Description	Cutting Cap.	Brand	Mfr. Model	Item No.
Tree Pruners				
Single Telescoping Pole				
12-ft. Pole, 12" Saw, 1" Lopper, Double Lock Extension	1 in	Fiskars	393951-1001	**49Z427**
13-ft. Pole, 15" Saw, 1⅛ Lopper and Slide Lock	1 ⅛ in	Westward	—	**5TFN2**
14-ft. Pole, 13" Razor Saw, 1¼" Lopper , Twist and Lock Extension	1 ¼ in	Corona	TP6870	**8NEK2**
14-ft. Pole, 15" Saw, 1¼" Lopper, Double Lock Extension	1 ¼ in	Fiskars	393981-1003	**49Z428**
16-ft. Pole, 15" Saw, 1½" Lopper, Double Lock Extension	1 ½ in	Fiskars	394731-1001	**49Z429**
Multiple Poles				
(1) 6-ft. Extension Pole, and (1) 6-ft. Base Pole, 13" Tri-Cut Saw, 1⅕" Lopper, Fixed Pulley Side-Cut Pruner	1 ⅕ in	Jameson	FG-6PKG-1	**5KRE7**
(2) 6-ft. Extension Poles, (1) 6-ft. Base Pole, 1¼" Lopper, Fixed Pulley Side-Cut Pruner, Adapter	1 ¼ in	Jameson	FG-14K	**5KRE8**
(2) 6-ft. Extension Poles, (1) 6-ft. Base Pole, 13" Saw, 1¼" Lopper, Double Pulley Side-Cut Pruner, Adapter	1 ¼ in	Jameson	BL-6PKG-6-PR	**20KP53**
Pruning Components				
Pole Saw Heads				
Pole Saw Head (Center Blade Mount) with Mounting Pin and Adapter	—	Jameson	PS-3FP	**5KRF0**
Pole Saw Head (5KRF0) with 13" Tri-Cut Saw Blade (9MYH0)	—	Jameson	PS-3FPS1	**9FEX6**
Pole Saw Head, 16" Saw Blade, 1" Lopper	1 in	Jameson	PH-11-PKG	**9JGZ3**
Tri-Cut Saw Blades				
13" Tri-Cut Saw Blade	—	Jameson	SB-13TE	**9MYH0**
13" Tri-Cut Blade with Gullets	—	Jameson	SB-13TE-GUL	**16X107**
13" Tri-Cut Blade with Hook	—	Jameson	SB-13TE-H	**16X106**
16" Tri-Cut Saw Blade	—	Jameson	SB-16TE	**5KRF1**
16" Mammoth Tri-Cut Saw Blade	—	Jameson	SB-16TE-W	**16X105**
Extension Pole				
6-ft. Fiberglass Hollow Core Extension Pole	—	Jameson	FG-6	**5KRE9**
Pruning Head and Pole				
Side-Cut Pruner (1¼" Lopper) with Fixed Pulley, Adapter, and Rope	1 ¼ in	Jameson	PH-14-PKG	**8F385**
Fiberglass Telescoping Pole with Female Ferrule, Adjusts 7 to 14 ft.	—	Jameson	TP-14F	**9R636**

Clauss WESTWARD® CORONA SEASON AFTER SEASON FISKARS® STANLEY

Pruners

Titanium Bonded Nonstick and Titanium Nitride coatings improve blade strength and help blades stay sharper longer; Titanium Bonded and Nonstick coatings also improve corrosion resistance. Stainless steel blades are inherently corrosion resistant.

Bypass and Anvil—Bypass models have curved blades to allow clean cutting, and can cut near the trunk without crushing plant tissue. 468F45 FATMAX has a grip hook for maximum cutting power on large limbs. Features ergonomic nonslip rubber grips for comfort and curved handles to increase leverage. TiCN-coated blades will cut through 1" of live growth with minimal effort. Anvil pruners are excellent for cutting woody stems or deadwood.

Flower—Flower pruners have pointed blades that can easily maneuver the tight spaces between flower stems.

2-Pc. Cutter Sets—Include bypass pruner and flower pruner.

429U37

5TFN0

16X037

429U24

49U740

429U39

Cutting Cap.	Blade Material	Blade Coating	Handle Material	Grip Type	Overall L	Brand	Mfr. Model	Item No.
Bypass Pruners								
½ in	Stainless Steel	Nonstick, Antimicrobial	Metal	Ergonomic	8 in	Clauss	19574	**429U23**
	Stainless Steel	—	Plastic	Ergonomic	8 in	Clauss	19567	**429U37**
⅝ in	Steel	Nonstick	Metal	Cushioned	8 ½ in	Westward	—	**5TFN0**
¾ in	Steel	—	Metal	Nonslip	8 ¼ in	Corona	BP3160	**8D571**
1 in	Steel	Low-Friction	Metal	Ergonomic	8 in	Fiskars	398393-1002	**16X037**
	Steel	—	Metal	Ergonomic	8 ½ in	Corona	BP6250	**8YZ58**
	Steel	—	Metal	Ergonomic	8 ¾ in	Corona	BP 3180D	**8Y095**
	Titanium	—	Metal	Ergonomic	¾ in	STANLEY	BDS6036	**468F45**
Anvil Pruners								
½ in	Stainless Steel	Nonstick, Antimicrobial	Metal	Ergonomic	8 in	Clauss	19575	**429U24**
	Stainless Steel	—	Plastic	Ergonomic	8 in	Clauss	19568	**429U38**
⅝ in	Steel	Nonstick	Metal	Cushioned	7 ¾ in	Westward	—	**5TFN3**
	Steel	—	Metal	Nonslip	8 in	Fiskars	91105935j	**39FV59**
	Steel	Nonstick	Metal	Ergonomic	8 in	Westward	—	**2ZB48**
Flower Pruners								
⅜ in	Stainless Steel	—	Metal	Nonslip	7 ½ in	Corona	AG 4930SS	**49U740**
2-Pc. Cutter Sets								
½ in, ¼ in	Stainless Steel	—	Multi-Component	Ergonomic	6 in, 7 ½ in	Clauss	19569	**429U39**

STANLEY CORONA WESTWARD FISKARS Clauss

Loppers

Bypass design is ideal for cutting green, living growth; anvil blade design cuts dry, dead growth.

Bypass—Longer handles with force-multiplying mechanism. Titanium carbo-nitride (TiCN) coating on 468F46 and 425R86 allow blades to retain sharpness. SyncDrive technology adds more cutting force than nongeared loppers.

Compound Lever Bypass—Lever mechanism helps reduce cutting effort.

Antimicrobial Bypass—Titanium blades resist corrosion and adhesives. Stainless steel is 3 times harder than untreated stainless. Blades stay sharper longer. Telescopic Lopper 429U21 extends from 19" to 24".

Anvil Loppers—Have nonslip grips and telescopic aluminum handles. Gear mechanism on 2RDN2 helps reduce cutting effort.

PowerGear Lopper—Geared lopper gives you up to 3 times more leverage than traditional loppers. Low-friction, rust-resistant coating prevents sap and debris buildup on blade. Ergonomic handles.

Cutting Cap.	Blade Material	Handle Material	Overall L	Brand	Item No.
Bypass Loppers					
2 in	Steel	Steel	32 in	STANLEY	**468F46**
1 ½ in	Steel	Wood	26 in	Corona	**21EJ14**
1 ⅜ in	Steel	Wood	29 ½ in	Westward	**2ZB47**
1 ⅞ in	Steel	Aluminum	27 in to 40 5⁄16 in	Westward	**2RDL9**
2 in	Steel	Aluminum	31 in	STANLEY	**425R86**
2 ¼ in	Steel	Aluminum	26 in	Corona	**38A101**
2 ¼ in	Steel	Aluminum	32 in	Corona	**38A102**
Compound Lever Bypass Loppers					
1 ¾ in	Steel	Steel	37 in	Fiskars	**10F483**
Antimicrobial Bypass Loppers					
2 in	Titanium Bonded®	Aluminum	30 in	Clauss	**429U20**
Antimicrobial Telescopic Bypass Loppers					
1 in	Titanium Bonded®	Aluminum	24 in	Clauss	**429U21**
Anvil Loppers					
1 ⅞ in	Steel	Aluminum	27 in to 40 5⁄16 in	Westward	**2RDL8**
2 in	Steel	Aluminum	28 in to 41 5⁄16 in	Westward	**2RDN2**
PowerGear® Bypass Lopper					
2 in	Steel	Aluminum	32 in	Fiskars	**35ZD43**

WESTWARD FISKARS Clauss CORONA

Hedge and Garden Shears

HEDGE SHEARS

3-Pt. Compound Cutting Action—Increases leverage. Bumper pads protect hands.

Dial-a-Cut—Wavy-blade shears cut easily. Adjustment knob for harder or softer cuts.

Power-Lever—Self-sharpening, serrated blade. Handle adjusts from 25" to 33"L.

Power-Gear—Have 2 gears to aid cutting force, reduce cutting effort, and provide leverage through the cut.

Antimicrobial Handles—Titanium Bonded shears are harder than untreated stainless, so blades stay sharper longer.

Heat-Treated Blades—Straight edge with limb notch shears feature comfortable nonslip grip. Blades can be resharpened.

GARDEN SHEARS

Titanium Bonded resist corrosion and adhesives. Nonstick Titanium 429U32 resists tape, glue, hook-and-loop, and sap. Micro ceramic coating will not wear off—up to 100,000 cuts.

SHARPENER

Sharpens straight edge tools, such as hedge shears, anvil loppers, and pruners.

Description	Blade Size	Blade Material	Handle Material	Overall L	Brand	Item No.
Hedge Shears						
3-pt. Compound Cutting Action	10 in	Steel	Aluminum	24 in	Westward	**5TFN4**
Dial-a-Cut	9 in		Rubber	23 in	Westward	**2ZB49**
Power-Lever	10 in		Steel	33 in	Fiskars	**5UJF0**
Power-Gear	10 in		Aluminum	23 ½ in	Fiskars	**35ZD42**
Antimicrobial Handles	8 in	Titanium Bonded	Plastic	32 in	Clauss	**429U22**
Heat-Treated Blades	8 ¼ in	Steel	Hardwood	21 ½ in	Corona	**21EJ13**
Garden Shears						
Yellow Antimicrobial Handles	3 in	Titanium Bonded	Plastic	8 ½ in	Clauss	**429U32**
Green Antimicrobial Handles, Includes Sheath	3 in			8 in	Clauss	**429U41**
Sharpener						
Manual, Pocket Size	¾"	Carbine	Plastic	5 in	Corona	**21EJ15**

WESTWARD STANLEY FISKARS JAMESON CORONA Clauss

Hand Saws

Bow Saws—Westward saws have a lightweight tubular steel frame with safety tension lever. Stanley FATMAX Bow Saw has a high-tension control knob, durable knuckle guard, and comfort molded grip. 24" removable blade.

Pruning Hand Saws—Blades fold or slide out of the way. Triple-edge teeth cut quickly. Titanium Bonded blades on 429U25 resist corrosion and adhesives and stainless steel is 3 times harder than untreated stainless.

Tri-Cut Saws—Hard chrome-plated tri-edge blades provide a cleaner cut than a single blade. Impulse-hardened teeth. An index finger stop provides additional safety.

Description	Blade Size	Blade Material	Handle Material	Overall L	Brand	Item No.
Bow Saws						
Bow Saw	21 in	Steel	Steel	23 ¾ in	Westward	**2RDL4**
Replacement Blade For 2RDL4	21 in	Steel	—	21 in	Westward	**2RDL5**
Bow Saw	30 in	Steel	Steel	32 ¾ in	Westward	**2RDL6**
Replacement Blade For 2RDL6	30 in	Steel	—	30 in	Westward	**2RDL7**
FATMAX Bow Saw	24 in	Steel	Plastic	24 in	STANLEY	**468F47**
Pruning Hand Saws						
Retractable w/ Carabiner Clip	10 in	Stainless Steel	Fiberglass	20 in	Fiskars	**5UJF2**
Folding	8 in	Steel	Multi-Component	17 ½ in	Jameson	**5KRF7**
Folding	9 in	Steel	Multi-Component	17 ½ in	Westward	**2RDN1**
Folding	7 in	Steel	Plastic	9 in	Fiskars	**35ZD44**
Curved	13 in	Steel	Plastic	13 in	Corona	**9XYV3**
Curved	14 in	Titanium Bonded®	—	21 ¾ in	Clauss	**429U25**
Tri-Cut Saws						
Tri-Cut Saw	13 in	Steel	Rubber	18 ½ in	Jameson	**5KRF2**
Leather Sheath For 5KRF2	13 in	—	—	20 ½ in	Jameson	**5KRF4**
Tri-Cut Saw	16 in	Steel	Rubber	21 ½ in	Jameson	**5KRF3**
Leather Sheath For 5KRF3	16 in	—	—	22 ½ in	Jameson	**5KRF5**

Axes, Machetes and Hawkbill Knife

General purpose axes drive their wedged blade into wood to fell trees, remove branches, and split logs. They have a single-bit head attached at a right angle to a long handle. Axes require two hands to swing and maximize their striking force. Fiskars Machete 45HE08 is for grass, soft fibrous plants, light brush, perennials, and small roots. The hook/tip is for dividing plants, clump cutting (pulling motion), and digging small roots and weeds. Serration for precision cutting of grass. 45HE11 is for large dense areas of lighter weight material. Blade tip chops grass, palms, and branches. Westward models have a steel blade with a powder-coated paint finish, resistant to rust and abrasion. Hawkbill Knife has carbon steel blade and ergonomic plastic handle.

Cutting Edge L	Overall L	Blade Material	Handle Material	Brand	Item No.
Axes					
3 ½ in	23 ½ in	Steel	Plastic	Gerber	**33GM33**
3 ½ in	28 in	Steel	Multi-Component	Fiskars	**35ZD83**
4 ⅝ in	36 in	Steel	Wood	Westward	**20C890**
Machetes					
6 in	13 in	Steel	Fiber Composite	Fiskars	**45HE08**
10 ½ in	17 in	Steel	Plastic	Westward	**31MJ57**
11 in	17 ¼ in	Stainless Steel	Rubber	Gerber	**446G09**
13 7⁄64 in	19 ¾ in	Stainless Steel	Rubber	Gerber	**446G10**
15 in	29 in	Steel	Fiberglass	Fiskars	**45HE11**
16 ½ in	25 in	Steel	Plastic	Westward	**31MJ56**
19 in	27 ¼ in	Steel	Plastic	Westward	**31MJ58**
Hawkbill Knife					
3 in	9 in	Steel	Plastic	Westward	**31MJ55**

20C890

45HE08

45HE11

31MJ56

31MJ55

Brush Clearing Tools

Brush Axe has a thick, drop-forged blade and nonstick coating. Insert-molded design prevents blade from loosening. Machete Axe body slices grass and vines while the hook is used for power chopping grass and palms. The head can be used for quick, controlled chopping. The end of the axe is used for push cutting and chiseling. Double-Edge Bush Hook is for clearing brush, weeds, tough vines, and undergrowth. Carbon steel blade has both edges sharpened. Clearing Hook allows controlled cutting for medium brush, woody stems, small branches, and hard fibrous plants. The hook/tip provides heavy-duty pulling motion for removing suckers, clearing vines. Coarse saw edge for precision cutting. Use Ditch Bank Blade for clearing undergrowth. Carbon steel blade has both edges sharpened. Clearing Hatchet works on light/medium branches. Hook is for light-duty pull cutting.

Description	Cutting Edge L	Overall L	Blade Material	Handle Material	Brand	Item No.
Brush Axe	5 in	19 in	Steel	Fiberglass	Fiskars	**16X040**
Machete Axe	18 in	29 in	Steel	Plastic	Fiskars	**45HE12**
Double-Edge Bush Hook	12 in	3 ft	Steel	Fiberglass	Nupla	**4HGC4**
Clearing Hook	—	18 in	Steel	Fiber Composite	Fiskars	**45HE09**
Ditch Bank Blade	16 in	46 in	Steel	Wood	Council Tool	**9U091**
Clearing Hatchet	9 in	18 in	Steel	Plastic	Fiskars	**45HE10**

16X040

4HGC4

9U091

Brush and Log Removal Tools

BRUSH PULLERS

Easily clear brush with gripping teeth and strong, wide opening jaws that will not slip when engaged.

SHRUB AND CLUMP PULLERS

Feature triple chain system with no-slip gripping links that act as a choker to remove large shrubs, clumps of brush, and small trees.

ROOT CUTTER

Hardened serrated-edge blade and slide hammer cut easily through soil, removing roots without ripping up landscape. Slices roots up to 12" deep.

SKIDDING TONGS

Ideal for skidding and dragging operations. Opens to 25 in. 1.25 in-dia. steel tongs stay sharp for a long time. Powder-coated finish.

MINI LOG GRAPPLE

Easy-to-assemble grapple with 12 teeth grabs hold of logs for skidding and lifting. Powder-coated finish provides durability. 3000 lb. capacity.

For Use On	For Use With	Brand	Item No.
Brush Pullers			
½ in to 3 in Brush or Stumps	ATVs/UTVs	Brush Grubber	**9GMU4**
½ in to 4 in Brush or Stumps	Subcompact Tractors up to 30 HP	Brush Grubber	**8YLD1**
1.5 in to 5 in Brush or Stumps	Tractors up to 40 HP	Brush Grubber	**9EMZ0**
2 in to 6 in Brush or Stumps	Large Tractors & Trucks	Brush Grubber	**9YF70**
Shrub and Clump Pullers			
Shrubs/Clumps to 1¼ ft dia	ATVs/UTVs	Brush Grubber	**8Z253**
Shrubs/Clumps to 1½ ft dia	ATVs/UTVs	Brush Grubber	**9YF69**
Shrubs/Clumps to 1½ ft dia	ATVs/UTVs	Brush Grubber	**52RW67**
Root Cutter			
Unwanted Roots	By Hand	Brush Grubber	**8YG78**
Skidding Tongs			
Log Size 25 in	ATVs/UTVs or Utility Tractor	Timber Tuff	**8M963**
Mini Log Grapple			
Log Size 2 in to 22 in	ATVs/UTVs or Utility Tractor	Timber Tuff	**45TP37**

9GMU4

9YF69

8M963

8YG78

45TP37

Garden Hand Tools

Ames tools feature heavy-duty stainless steel blades and an ergonomic handle design. They offer soft gel-grip inserts for comfortable all-day use. Clauss tools have corrosion-resistant steel blades. Trowel and transplanter have straight handle. Bulb digger has D-handle.

415M70
415M71
415M72
429U31

Description	Blade L	Handle Material	Brand	Item No.
Trowel	5 ¾ in	Polyethylene	Ames	**415M70**
Transplanter	5 ⅞ in	Polyethylene	Ames	**415M71**
Cultivator	3½"	Polyethylene	Ames	**415M72**
Bulb Digger	4 ¼ in	ABS/TPR	Clauss	**429U31**

44X219
6FWJ0

494P16

Gas-Powered Tillers and Cultivators

Tiller/Cultivator—Features reversible, hardened-steel tines that provide a smooth tilling action. Worm gear-type transmission provides high torque and high tine rpm. Throttle control and water-resistant stop switch are easy for operator to reach.

Cultivator—Lightweight mini cultivator features 2 rear, 7" plastic wheels and a 3-pc. folding handle.

Rear Tine Tiller—Features forward and reverse gear drive. Includes 13" solid rubber tires and foldable, pistol grip handles. Fuel system oil mix to gasoline is not required.

Description	Tilling D	Tine L	Working W	Brand	Item No.
Tiller/Cultivator					
Two-Cycle 21.2cc Engine	10 in	4 in	9 in	Echo	**44X219**
Cultivator					
Two-Cycle 43cc Engine	5 in	8 in	6 in to 10 in	Southland	**6FWJ0**
Rear Tine Tiller					
4-Stroke 212cc OHV Engine	8 in	11 in	18 in	Southland	**494P16**

49DG94
3MD47
4GFF3

Manual Post Hole Diggers

For digging into hard, heavy gravel soils. 49DG94 has a safety green, premium fiberglass handle with comfort grip and 3M retroreflective tape. The 11-ga. blades are hardened and sharpened.

Handle L	Distance Between Blade Tips	Head Size	Brand	Item No.
Fiberglass Handle				
48 in	6 ¼ in	5 ⅞ in	Ability One	**52CD22**
48 in	6 ¼ in	6 in	Seymour Midwest Structron	**49DG94**
48 in	6 ½ in	—	Nupla	**3MD47**
72 in	6 ½ in	—	Nupla	**5GVA1**
Nonconductive Fiberglass Handle				
48 in	6 ½ in	—	Nupla	**4GFF3**

Gas-Powered Bulb Planting Drill and Pot Auger

Cordless drill has an all-position diaphragm with purge pump carburetor, for heavy-duty performance at any-angle. Keyed chuck holds drill shanks up to ½". Electronic ignition provides quick, easy starts. Reversible.

52DD78

Description	Mfr. Model	Item No.
2-Cycle 25.4cc Engine Drill	EDR-260	**52DD78**
7" x 16" Gal. Pot Auger	99944900070	**31ER79**

44Y641

44Y645

Gas-Powered Earth/Ice Auger

Ideal for most earth, snow, and ice drilling operations and is suitable for a variety of auger diameters. 30.2:1 gear ratio allows for fast cutting speeds. Frame assembly and heavy-duty handle help reduce vibration for greater operator comfort and allows for 2-person operation.

Description	Max. Drilling Torque	Mfr. Model	Item No.
Gas-Powered Earth/Ice Auger			
Two-Cycle 42.7cc Engine with Variable Throttle Control	48.97 ft/lb	EA-410	**44Y641**
Earth/Ice Auger Bits			
4" dia. with Point, 36"L		99944900170	**44Y644**
6" dia. with Point and Spring, 34"L		99944900180	**44Y645**
8" dia. with Point and Spring, 34"L		99944900190	**44Y646**
10" dia. with Point and Spring, 34"L		99944900200	**44Y647**
Dual-Blade Ice Auger Bits			
8" dia. x 40"L		99944900280	**44Y656**
10" dia. x 40"L		99944900290	**44Y657**
Replacement Auger Point Bits			
2" Earth Auger Point		99944900270	**44Y654**
Ice Auger Point		99944900275	**44Y655**
Extension Shafts and Adapter			
⅞" dia. x 12"L Extension Shaft		99944900220	**44Y649**
⅞" dia. x 18"L Extension Shaft		99944900210	**44Y648**
⅞" dia. to 1" dia. Earth Auger Adapter with Spring		99944900335	**44Y660**

KUSHLAN PRODUCTS, LLC

Plate Compactors and Tamping Ram

PLATE COMPACTORS

Heavy-duty shock mounting helps reduce vibration to upper engine handle. Sealed belt cover helps keep out sand and soil, and open plate is self-cleaning.

Single Direction—Plate compactor has water tank, sprayer, and collapsible handle. High-powered engine with low fuel consumption. Fluid tank and dolly wheels are removable for easier movement.

Reversible Plate—Forward and reverse gears allow greater mobility in trench work. Heavy-gauge cast-steel base plate resists wear. Centrally located lifting bar and dolly wheels ease transport. Wraparound cage helps protect plate from damage. Use to compact asphalt, gravel, and mixed materials.

TAMPING RAM

Features heavy-duty roll cage and heavy-duty throttle cable. Includes removable dolly wheels for easier mobility. Utilizes lean carburetor settings and additional measures to reduce the emissions of carbon monoxide, oxides of nitrogen and hydrocarbons which are produced in the combustion process.

Description	Plate Size	Force	Vibration	W	L	Weight	Item No.
Plate Compactors							
Single Direction with Loncin Engine	18 in x 23⅝ in	2300 lb	3600 VPM	20 in	39 in	180 lb	**54DH93**
Reversible with Honda GX270 Engine	14⅝ in x 28½ in	2500 lb	4300 VPM	21 in	48 in	275 lb	**6LCW4**
Tamping Ram							
Loncin Engine	11 in x 13 in	4000 lb	350 to 700 VPM	20 in	24 in	275 lb	**54DH91**

WESTWARD

Operating Wrenches and Meter Keys

Heavy-duty steel construction with T-bar handle for maximum turning leverage. Use to reach underground valves. Powder-coated for corrosion resistance. 31MJ69 and 31MJ70 are multifunction wrenches with 3 keys stored on the wrench (held in place with spring-steel snap pins) eliminating the need for 3 different tools.

Description	Item No.
Operating Wrenches	
2¼" Square Key with 60" T-bar Handle	**31MJ68**
Water Meter Keys	**31MJ69**
Water Meter Keys	**31MJ70**
Meter Keys	
Water Meter Keys	**31MJ72**
¾" dia. Shaft and ¾"W Groove and 60" T-bar Handle	**31MJ73**

TRUE TEMPER

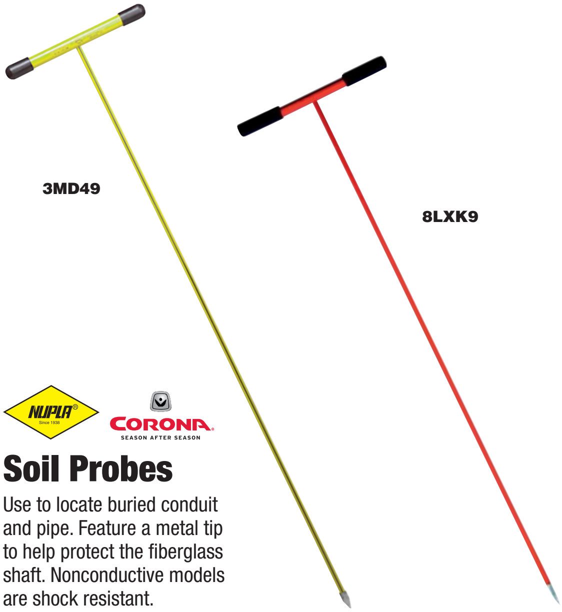
WESTWARD

NUPLA

Tampers

Sturdy cast-steel heads handle heavy-duty leveling and compacting of dirt, gravel, and asphalt.

Handle Type	Handle L	Handle Material	Mfr. Model	Brand	Item No.
8" Plate					
Straight	42 in	Wood	11334GR	True Temper	**6HFZ7**
Tube with Rubber Grip	43 in	Steel	—	Westward	**38ZD98**
10" Plate					
Straight	42 in	Wood	1142500	True Temper	**1MDW6**
Tube with Rubber Grip	43 in	Steel	—	Westward	**38ZD97**
Straight with Butt Grip	48 in	Fiberglass	6894185	Nupla	**2UE99**



NUPLA

CORONA
SEASON AFTER SEASON

Soil Probes

Use to locate buried conduit and pipe. Feature a metal tip to help protect the fiberglass shaft. Nonconductive models are shock resistant.

Description	Brand	Item No.
4-ft. T-Bar Handle	Nupla	**3MD49**
4-ft. T-Bar Handle, Nonconductive	Nupla	**4GFF5**
4-ft. Fiberglass Probe with Replaceable Metal Tip	Corona	**8LXK9**
4-ft. Steel Probe with Grip	Corona	**8XRR2**
5-ft. T-Bar Handle, Nonconductive	Nupla	**4GFF6**

JAMESON

Telescoping Measuring Pole

Lightweight, nonconductive fiberglass pole allows one person to accurately measure height clearances and horizontal distances for bridges, overhead lines, and in telephone and railroad applications. Has eye-level measurement reading window with English scale. Includes removable hook and carrying bag.

Description	Mfr. Model	Item No.
25-ft. Overall Length, 58" Retracted Length	TP-125N	**10F481**

4LVE3

4LVP8

4LVN9

Hardware Cloth, Netting, Wire, and Barbless Cable

- Galvanized steel construction

HARDWARE CLOTH AND POULTRY NETTING

Hardware Cloth—Welded cloth has a double zinc coating for maximum rust resistance and long life. Can be used as tree guards, window covers, on screen doors, gutters, and more.

Poultry Netting—A lightweight containment solution for many maintenance projects. For use in plant protection, animal cages, as a soil erosion inhibitor, and more.

WIRE AND BARBLESS CABLE

Electric Fence Wire—2 wire gauges in different lengths work with most farm voltages.

Smooth Wire—Durable, single-strand wire with rust-resistant finish is ideal for bundling, hanging, and tying.

Barbed Wire—Can be installed in line or as loose coil. Ideal for agriculture, animal boundary, military and prison protection, and security applications.

Barbless Cable—Economical way to control livestock without the entanglement dangers of a barbed wire fence.

Gauge	Mesh Size	H	L	Item No.
Hardware Cloth and Poultry Netting				
Hardware Cloth				
19	½ in	2 ft	50 ft	4LVE6
	½ in	3 ft	50 ft	4LVE7
	½ in	4 ft	50 ft	4LVE8
23	¼ in	2 ft	50 ft	4LVE3
	¼ in	3 ft	50 ft	4LVE4
	¼ in	4 ft	50 ft	4LVE5
27	⅛ in	2 ft	100 ft	4LVP5
	⅛ in	3 ft	100 ft	4LVP6
Poultry Netting				
20	1 in	1 ft	50 ft	4LVE9
	1 in	1 ½ ft	50 ft	4LVF1
	1 in	2 ft	50 ft	4LVF2
	1 in	3 ft	50 ft	4LVF3
	1 in	4 ft	50 ft	4LVF4
	1 in	5 ft	50 ft	4LVF5
	1 in	6 ft	50 ft	4LVF6
	2 in	2 ft	50 ft	4LVF7
	2 in	3 ft	50 ft	4LVF8
	2 in	4 ft	50 ft	4LVF9
	2 in	6 ft	50 ft	4LVG2

Gauge	L	Item No.
Wire and Barbless Cable		
Electric Fence Wire		
17	1,320 ft	4LVR1
17	2,640 ft	4LVR2
14	1,320 ft	4LVP8
14	2,640 ft	4LVP9
Smooth Wire		
12 ½ ga	390 ft	4LVP7
Barbed Wire - 2 Barbs every 5"		
12 ½ ga	1,320 ft	4LVN9
Barbed Wire - 4 Barbs every 5"		
15 ½ ga	1,320 ft	4LVP4
Barbless Cable		
12 ½ ga	1,320 ft	4LVP2

4LVG3 46V227 4LVN8 3PNJ2

TAPCO Safe travels.

Fence Posts and Drivers

Fence Posts—All fence posts are made of steel. U-Channel posts are compatible with poultry netting and hardware cloth.

Manual Fence Post Drivers—Weighted and reinforced steel heads on 4LVN8 and 9ANX7 are constructed for driving steel fence posts, the tapered loop handles offer comfortable hand placement. 3PNJ2 high-strength cap can be used with a post driver to sink sign posts into the ground.

Description	Wt./Ft.	H	W	Brand	Item No.
Fence Posts, PVC Coating Finish					
U-Channel Fence Posts	0.47 lb	36 in	4 ½ in	—	4LVG3
	0.47 lb	48 in	4 ½ in	—	4LVG4
	0.47 lb	60 in	4 ½ in	—	4LVG5
	0.47 lb	72 in	1 5⁄16 in	—	4LVG6
Fence Posts, Powder-Coated Finish					
Fence Posts	1.33 lb	48 in	3 ½ in	—	46V227
	1.33 lb	60 in	3 ½ in	—	46V228
	1.33 lb	72 in	3 ½ in	—	46V229
Manual Fence Post Drivers					
Fence Post Driver				—	4LVN8
Post Pounder				—	9ANX7
Drive Cap				Tapco	3PNJ2

12N498 4LVK3 12N501

VORTEX OUTDOOR SOLUTIONS QUICK. EASY. SECURE.

Earth Anchors

Designed to eliminate the need to dig or use concrete to secure your valuable items such as tie down tarps, tents, shelters, and outdoor furniture; or install posts.

Description	L	Dia.	Color	Brand	Item No.	Pkg. Qty.
Plastic Earth Anchor						
Screw-In	7 ½ in	¾ in	Green	Vortex	12N498	4
Steel Earth Anchors						
Screw-In	15 in	3 in	Red	—	4LVK3	1
	30 in	3 in	Red	—	4LVK4	1
	40 in	4 in	Red	—	4LVK5	1
	48 in	6 in	Red	—	4LVK6	1
Spiral with Folding Ring	8 in	3 in	Orange	Vortex	12N499	1
	10 in	3 in	Orange	Vortex	12N501	1
	16 in	3 in	Orange	Vortex	12N502	1

33L955

TENAX Solutions All Around You

Barrier Fencing

Tenax Snow Fence 9KDE5 is a UV stabilized fence with oval mesh openings designed to slow wind and create drifts for snow storage so they will not interfere with roadways, driveways, or runways. Strong HDPE plastic resists wind damage and remains flexible in freezing temperatures. Tenax Safety Fence features smooth top and bottom borders that are less likely to cut and scrape adjacent materials during installation and removal. Fences are reusable, lightweight sets providing boundaries around work zones, construction sites, sporting events, and blowing sand, silt, or snow. Also effective for crowd control.

Mesh Size	Mesh Shape	Color	Material	H	L	Brand	Item No.
Snow Fence							
1 x 4 in	Oval	Orange	HDPE	4 ft	100 ft	TENAX	9KDE5
1½ x 1¾ in	Square	Green	HDPE	4 ft	50 ft	—	33L956
1¼ x 3⅛ in	Oval	Black	HDPE	4 ft	50 ft	—	33L957
Safety Fence							
1¼ x 1½ in	Diamond	Orange	Polyethylene	4 ft	50 ft	TENAX	8ENE1
1½ in x 1¾ in	Diamond	Green	HDPE	4 ft	50 ft	—	33L958
1½ x 1¾ in	Square	Hi-Vis Yellow/Green	HDPE	4 ft	100 ft	—	33L959
2 x 2⅜ in	Square	Orange	Polypropylene	4 ft	100 ft	—	33L954
1" x 3"	Oval	Orange	Plastic	4 ft	50 ft	TENAX	417T54
1" x 3"	Oval	Orange	Plastic	4 ft	100 ft	TENAX	417T55
3½ x 1⁷⁄₁₀ in	Oval	Orange	Polypropylene	4 ft	50 ft	TENAX	9ME95
Barrier Fence							
1¾ x 1¾ in	Diamond	Orange	HDPE	4 ft	50 ft	—	33L955

TENAX Solutions All Around You

MAURITZON

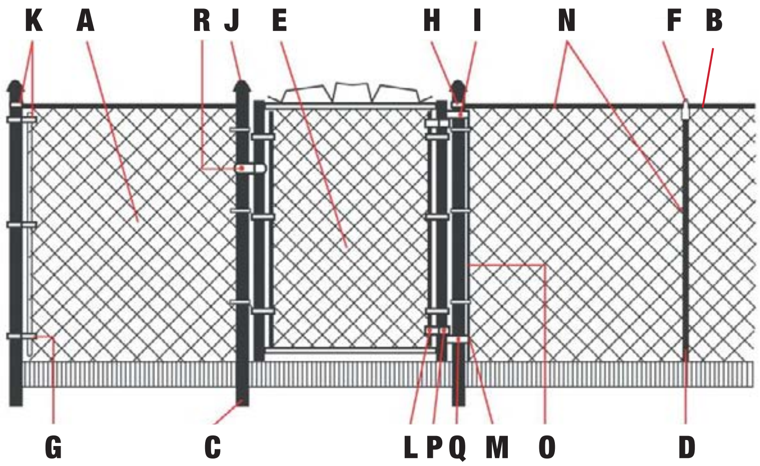
34L449

5WUE5

Fence Screens and Scaffolding Netting

Privacy and Debris Screens are durable, lightweight, tear resistant, and easy to install. HDPE screen material will not absorb water. Windscreen is ideal for windy locations and where privacy and security are desired. Screen is easy to install, highly visible, and has wing-type openings that allow air to flow through. Material has horizontal and vertical tear-proof bands for greater stability in windy conditions.

H	L	Color	Brand	Item No.
Privacy Screen				
5.6 ft	150 ft	Green	TENAX	34L449
	150 ft	Black	TENAX	34L450
7.8 ft	150 ft	Green	TENAX	34L452
	150 ft	Black	TENAX	34L453
6 ft	25 ft	Green	Mauritzon	48NW05
Debris/Scaffolding Netting				
4 ft	150 ft	Orange	TENAX	417T52
Windscreen				
4 ft	165 ft	Black	—	5WUE5
	165 ft	Tan	—	5WUE6



A.

E.

B. C. D.

Chain-Link Fencing

A. Fabric—Galvanized zinc is uniformly applied to steel wire before weaving for an even, protective coating that is free of sharp burrs. Smooth fabric is easy to work with during installation.

B. Top Rails—Pregalvanized sheet steel is formed into tubing.

C. and D. Terminal and Line Fence Posts—Galvanized steel terminal posts are used at the ends of a run as corner posts or as gate posts. Line posts are used as support posts in the middle of a run.

E. Gates—Steel is galvanized before weaving. Welded frame with 17-ga., 1⅜" tubing, and 9-ga. fabric fill, which is galvanized before weaving into 2" mesh.

F. to Z. Fence and Gate Hardware—Extensive assortment of aluminum and galvanized fittings are manufactured to rigid quality standards.

Key	Gauge	Mesh Size	H	L	Item No.
Fabric					
A	11 ½ ga	2 ⅜ in	4 ft	50 ft	**4LVK7**
	9 ga	2 in	4 ft	50 ft	**4LVK8**
	9 ga	2 in	6 ft	50 ft	**4LVK9**

Key	Gauge	L	Dia.	Item No.
Top Rails				
B	17	10 ½ ft	1 ⅜ in	**4LVL1**
	16	21 ft	1 ⅝ in	**4LVL2**
Terminal Posts				
C	16 ga	72"	2⅜"	**4LVL3**
	16 ga	96"	2⅜"	**4LVL4**
Line Fence Posts				
D	16 ga	72"	1⅝"	**4LVL5**
	16 ga	96"	1⅝"	**4LVL6**
	15 ga	96"	1⅞"	**4LVL7**

Key	Gauge	Mesh Size	W	H	Item No.
Gates					
E	9	2 ⅜	48 in	48 in	**4LVN1**
	9	2 ⅜	48 in	72 in	**4LVN2**

Key	Description	Size	Material	Finish	Item No.
Fence and Gate Hardware					
F	Eye Top	1 ⅝ in-dia.	Aluminum	Plain	**4LVJ1**
	Eye Top	1⅝ in Rail and 1⅞ in Post	Aluminum	Plain	**4LVN3**
G	Tension Band	2 ⅜ in-dia.	Steel	Galvanized	**4LVJ6**
H	Brace Band	2 ⅜ in-dia.	Steel	Galvanized	**4LVH9**
I	Rail End Cup	1⅜ in Post and ½ in Tab Hole-dia.	Aluminum	Plain	**4LVJ4**
	Rail End Cup	1⅝ in Post and ½ in Tab Hole-dia.	Aluminum	Plain	**4LVJ5**
J	Post Cap	2 ⅜ in-dia.	Aluminum	Plain	**4LVJ3**
K	Carriage Bolts	5/16 in-dia.	Steel	Galvanized	**4LVJ9**
L	Carriage Bolts	⅜ in-dia.	Steel	Galvanized	**4LVK1**
M	Carriage Bolts	⅜ in-dia.	Steel	Galvanized	**4LVK2**
N	Chain Link Ties	8 ¼ inL	Aluminum	Plain	**4LVH6**
O	Tension Bar	⅝ inH x 3/16 inW x 70 inL	Steel	Galvanized	**4LVL9**
P	Gate Frame Hinge	1⅜ in dia	Steel	Galvanized	**4LVH2**
	Gate Frame Hinge	1⅝ in dia	Steel	Galvanized	**4LVH3**
Q	Post Hinge	2 ⅜ in-dia.	Steel	Galvanized	**4LVH4**
R	Fork Latch	1⅜ to 2⅜ in dia	Steel	Galvanized	**4LVG7**
S	Barbed Wire Arm Corner	2 ⅜ in-dia.	Steel	Galvanized	**4LVH7**
T	Barbed Wire Line Arm	1 ⅝ in-dia.	Steel	Galvanized	**4LVH8**
	Barbed Wire Line Arm	1 ⅞ in-dia.	Steel	Galvanized	**4LVN4**
	Barbed Wire Line Arm	2 ⅜ in-dia.	Steel	Galvanized	**4LVN5**
U	Gate Clip	1⅜ in dia	Steel	Galvanized	**4LVG8**
V	Gate Corner	1⅝ in dia	Steel	Galvanized	**4LVG9**
W	Gate Elbow	1⅜ in dia	Aluminum	Plain	**4LVH1**
X	Line Rail Clamp	2⅜ in Post and 1⅝ in Rail	Steel	Galvanized	**4LVJ2**
Y	Panel Clamp	1 ⅜ in-dia.	Steel	Galvanized	**4LVH5**
Z	Top Rail Sleeve	1 ⅝ in-dia.	Steel	Galvanized	**4LVJ8**

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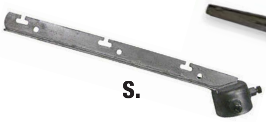
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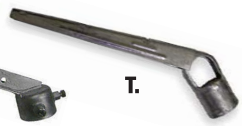
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34FY05

35Z910

Erosion Control Blankets and Silt Fences

These soil-preserving products control erosion and sediment.

EROSION CONTROL BLANKETS AND STAPLES

Biodegradable blankets contain at least 80% aspen wood fiber. Topped with a photodegradable netting. Green color. Biodegradable anchor staples sold separately.

SILT FENCE WITH WOOD STAKES

Lightweight woven fabric lets fluids pass through while trapping soil, preventing soil loss. Fencing is preattached to posts for easy installation.

Description	Brand	Item No.
Erosion Control Blankets and Staples		
Blanket, 4 ft. x 112.5 ft.	Dewitt	**34FY05**
Blanket, 8 ft. x 112.5 ft.	Dewitt	**34FY06**
Staples, 4"H, Pkg. of 1000	Dewitt	**9J752**
Silt Fence with Wood Stakes		
2 ft. x 100 ft.	TENAX	**35Z910**
3 ft. x 100 ft.	TENAX	**35Z911**

491R34

31NG41

491R35

425Y08

1HLW6

425Y10

Sprinklers

Whirling Sprinklers—Innovative shape control allows easy customizing of the sprinklers to the coverage area. On/Off switch allows you to adjust water flow at the sprinkler, not the faucet.

Impulse Spike Sprinkler—Shape adjustment is as simple as moving the collars to mirror the shape of the desired coverage area. On/Off switch eliminates trips from sprinkler to spigot, without getting soaked.

Oscillating Sprinklers—Plastic 425Y08 and metal 425Y09 are fully adjustable oscillating sprinklers with width and length controls. 425Y09 features On/Off control.

Traveling Sprinkler—Travels up to 200 ft. Adjustable arms and automatic shut-off. Die-cast iron body.

Tripod Telescoping Sprinkler—Far-reaching spray for large coverage areas. Metal stand and spiked feet provide durability and maximum stability.

Description	Hose Connec.	Spray Coverage	Brand	Item No.
Whirling Sprinklers	¾ in GHT	45 ft dia	Gilmour	**491R34**
	¾ in GHT(F)	45 ft dia	Gilmour	**31NG41**
Impulse Spike Sprinkler	¾ in GHT	45 ft dia	Gilmour	**491R35**
Oscillating Sprinklers	¾ in GHT	3900 sq ft	Gilmour	**425Y08**
	¾ in GHT	3900 sq ft	Gilmour	**425Y09**
Traveling Sprinkler	¾ in GHT	13,500 sq ft	Nelson	**1HLW6**
Tripod Telescoping Sprinkler	¾ in GHT	7238 sq ft	Gilmour	**425Y10**

8UNT8

9W936

Tree Watering Bags

Slow-release water bags provide an efficient means of properly watering newly planted trees or shrubs and promoting deep root growth. 8UNT8 is for use on a level surface for proper drainage. Low-profile design is for use on low-brushed bushes and trees such as pines. 9W936 can be used with chemical and nutrient additives and can be zipped together for larger applications.

Description	Color	Drain Time	Max. Tree Dia.	Item No.
6"H x 35" dia.—For Evergreens, Trees, and Shrubs	Brown	4 to 8 hr	5 in	**8UNT8**
30"H x 18"W at Base—For Shade Trees	Green	5 to 9 hr	4 in	**9W936**

Watering Cans

Cans have a long spout and handle so the container can be tipped to pour water over plants and soil in gardening applications. Feature an offset bottom to keep the cans off the ground and two handles for easy portability and pouring. Hot dipped steel containers are covered with molten zinc to protect from rust and corrosion.

Cap.	Material	Color	Item No.
2 ½ gal	Steel	Silver	**36LH99**

4KG68

15X960

15X966

20KP43

15X958

15X959

15X964

15X965

20KP39

1HLX6

4KG82

1P724

4X072

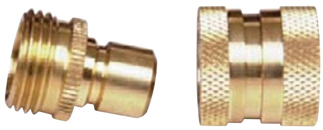
4KG86

4KG84

4KG81

1P723

4KG88


4KG97

4KH02

3DTH4

3DTH2

3DTH5

15X969

426G23

15X968

31NG42

WESTWARD® NELSON Gilmour BANJO Liquid Handling Products

Water Hose Repair Fittings and Accessories

Description†	Body Material*	Brand	Item No.
Water Hose Repair Kits (GHT)			
⅝" Worm Gear Clamp Assembly	Brass	Westward	**4KG68**
¾" Worm Gear Clamp Assembly	Brass	Westward	**4KG67**
⅝" and ¾" Compression Fit Assembly	Rezimar	Nelson	**15X960**
⅝" and ¾" Compression Fit Assembly	Metal	Nelson	**15X963**
⅝" and ¾" Clamp-Style Assembly	Brass/Metal	Nelson	**15X966**
Water Hose Repair Kits			
⅝" Coupling Assembly	Brass	Westward	**20KP43**
¾" Coupling Assembly	Brass	Westward	**20KP44**
Water Hose Repair Couplings (GHT)			
⅝" and ¾" Compression Fit Male End	Rezimar	Nelson	**15X958**
⅝" and ¾" Compression Fit, Male End	Metal	Nelson	**15X961**
⅝" and ¾" Compression Fit, Female End	Rezimar	Nelson	**15X959**
⅝" and ¾" Compression Fit, Female End	Metal	Nelson	**15X962**
⅝" and ¾" Clamp-Style, Male End	Brass/Zinc	Nelson	**15X964**
⅝" and ¾" Clamp-Style, Female End	Brass/Metal	Nelson	**15X965**
Water Hose Repair Couplings (NH)			
¾" and ½" Coupling, Male End	Brass	Westward	**20KP36**
¾" and ⅝" Coupling, Male End	Brass	Westward	**20KP37**
¾" and ¾" Coupling, Male End	Brass	Westward	**20KP38**
¾" and ½" Coupling, Female End	Brass	Westward	**20KP39**
¾" and ⅝" Coupling, Female End	Brass	Westward	**20KP40**
¾" and ¾" Coupling, Female End	Brass	Westward	**20KP41**
Water Hose Washers (GHT)			
⅝" ID x 1" OD, Pkg. of 10	Rubber	Gilmour	**1HLX6**
Hose to Hose Connectors (GHT x GHT)			
Irrigation Fittings; Max. Pressure: 125 psi			
¾ x ¾" Double Male	Brass	Westward	**4KG82**
¾ x ¾" Swivel, Double Female	Brass	Westward	**1P724**

** Rezimar = metal/polymer blend. † GHT = garden hose thread, NH = national hose thread, NPT = national pipe thread, GHMT = garden hose male thread, GHFT = garden hose female thread.*

Description†	Body Material*	Brand	Item No.
Hose to Pipe Connectors (GHT x NPT)			
¾ x ½" Double Male	Brass	Westward	**1P654**
¾ x ¾" Double Male	Brass	Westward	**4X072**
¾ x ½" Double Female	Brass	Westward	**4KG85**
¾ x ¾" Double Female	Brass	Westward	**4KG86**
¾ x ½" Male/Female	Brass	Westward	**4KG83**
¾ x ¾" Male/Female	Brass	Westward	**4KG84**
¾ x ¾" Double Male	Brass	Westward	**4KG81**
¾ x ¾" Female/Male	Brass	Westward	**1P723**
¾ x ½" Swivel, Double Female	Brass	Westward	**4KG87**
¾ x ¾" Swivel, Double Female	Brass	Westward	**4KG88**
GHT Quick Connectors			
¾" Quick Connector Set	Brass	Westward	**4KG97**
¾" Quick Connector Set with Automatic Shut-Off	Brass	Westward	**4KG98**
¾" Quick Connector Set	Brass	Nelson	**1HLX4**
⅝" Double Male Connector	Brass	Westward	**4KH02**
¾" Double Male Connector	Brass	Nelson	**1HLX5**
Quick Connect Cam Lever Adapters, Couplers, and Gasket			
¾" x ¾" GHMT Adapter	Polypropylene	Banjo	**3DTH4**
¾" x ¾" GHFT Adapter	Polypropylene	Banjo	**3DTH1**
¾" x ¾" GHMT Coupler	Polypropylene	Banjo	**3DTH2**
¾" x ¾" GHFT Coupler	Polypropylene	Banjo	**3DTH3**
¾" Gasket for Coupler 3DTH2 and 3DTH3	EPDM	Banjo	**3DTH5**
Water Hose Shut-off Valves			
¾" Single Outlet	Brass/Metal	Nelson	**15X969**
¾" Single Outlet	Zinc	Gilmour	**426G24**
¾" Dual Wye Outlet	Zinc	Gilmour	**426G23**
¾" Dual Wye Outlet with Swivel Coupling	Rezimar	Nelson	**15X968**
¾" Dual Wye Outlet, Kink-Free and High-Flow	Rezimar	—	**2LPN7**
¾" Four-Way Shut-off Valve	Plastic	Gilmour	**31NG42**
¾" Four-Valve Adaptor	Brass	Nelson	**35ZD37**
¾" Four-Way Stacked Wye Outlet	Rezimar	Nelson	**15X967**

Water Hose Nozzles and Watering Wands

Gilmour NELSON DRAMM®

- GHT connections

Gilmour models feature swivel connection to reduce kink potential, ensuring consistent flow. EZ Click actuation means one simple click to achieve continuous flow.

Features	Body Material*	Max. Pressure	Max. Temp.	Brand	Item No.
Industrial Duty					
Single Spray Hose Nozzles					
High-Flow Fire Hose Spray Tip with Adjustable Spray/Shut-Off Handle	Zinc	250 psi	100 °F	Gilmour Pro	**2LPN3**
Adjustable Twist Spray/On-Off Nozzle	Zinc	200 psi	100 °F	Nelson	**15X972**
Water Nozzle, Thumb Control, Heavy Duty Zinc Coupling, Crush Proof	Zinc	125 psi	100 °F	Gilmour	**45HE13**
Insulated Handle and Adjustable Spray Nozzle with Flow Control Turn Knob	Zinc	100 psi	160 °F	Gilmour Pro	**2LPN2**
Insulated Handle and Adjustable Spray Tension Screw	Zinc	100 psi	160 °F	Gilmour	**426G20**
Heavy Duty					
Cleaning Nozzle, Front Trigger, Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425X98**
Cleaning Nozzle, Thumb Control, Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425X99**
Cleaning Nozzle, EZ Click, Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425Y01**
Rubber Grip Straight Brass Nozzle, Twist Adjust Flow	Metal	100 psi	100 °F	Gilmour	**425Y05**
Multipattern Spray Nozzles					
Watering Nozzle, Front Trigger , Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425Y02**
Watering Nozzle, Thumb Control, Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425Y03**
Watering Nozzle, EZ Click, Soft Grip Handle	Metal	100 psi	100 °F	Gilmour	**425Y04**
Medium Duty					
Single Spray Hose Nozzles					
Cleaning Nozzle, Rear Trigger, Soft Grip Handle	Plastic	100 psi	100 °F	Gilmour	**425X96**
Multipattern Spray Nozzles					
Watering Nozzle, Rear Trigger	Plastic	100 psi	100 °F	Gilmour	**425X97**
Standard Duty					
Single Spray Hose Nozzles					
Adjustable Twist Spray	Brass	60 psi	100 °F	Gilmour	**1HLV6**
Adjustable Spray Tension Screw with Locking Clip, Yellow	Zinc	60 psi	100 °F	Nelson	**1HLV5**
Threaded Front Adjustable Spray Tension Screw with Locking Clip	Brass Stem/Steel Exterior	60 psi	100 °F	Gilmour	**15X957**
Watering Spray Wands					
30 51/64 inL Pro Power Jet Wand with Adjustable Spray	Metal	125 psi	100 °F	Gilmour	**425X95**
16" Rain Wand w/Foam Grip, Red	Aluminum	100 psi	100 °F	Dramm	**8CY48**
16" Rain Wand w/Foam Grip, Green	Aluminum	100 psi	100 °F	Dramm	**8DPM0**
16" Rain Wand w/Foam Grip, Berry	Aluminum	100 psi	100 °F	Dramm	**9HZY5**
32"L Aluminum Wand with Flow Control Lever Switch	Rezimar™	60 psi	100 °F	—	**1HLV2**

***** Rezimar = metal/polymer blend.***

HYDE — For a better finish, start with HYDE.

Pivoting Nozzle Pole

A slide grip pivots the nozzle up to 135° to reach spray into tight spaces and awkward angles. Attaches to your existing garden hose for longer reach and spray patterns from fine mist to high power, 2.5 to 5 gpm. The adjustable nozzle has a rubberized tip to protect surfaces. It can be exchanged with any standard garden hose accessory to use the pole's pivot action and reach. The hose interface spins freely to prevent kinks. Features water/soap mixture control and easy switch to clean water only for rinsing.

Description	L	Mfr. Model	Item No.
Pivoting Nozzle Pole with Soap Reservoir	38 in	28470	**28AF47**

TOUGH GUY · Flexon · TUFF-GUARD

Cold Water Hoses

- Premium-Duty: 6 ply
- Heavy-Duty: 5 ply
- Standard-Duty: 4 ply
- Light-Duty: 2 and 3 ply
- Super Light-Duty: 1 ply

All have GHT connections. Hoses with aluminum couplings are certified for use in potable water applications. PVC Premium- and Heavy-Duty Hoses are kink-resistant and have crushproof couplings. Standard-Duty polypropylene hoses feature a helix wrap, providing flexibility. They resist abrasion, crushing, and kinks. Polypropylene material is up to 35% lighter than standard hoses. Collapsible Hose 423J02 is a fabric hose. Super Light-Duty Soaker Hose 423H99 can be used above ground or buried for direct underground soaking.

423H80

423H87

423H94

423J02

423H95

12F252

423H99

Operating Temp.	Number of Ply	Hose Inside Dia.	Hose L	Hose Color	Coupling Material	Max. Pressure	Brand	Item No.
Premium-Duty Hoses								
PVC								
130°F Max. Temp.	6	⅝ in	50 ft	Black	Aluminum	500 psi	Tough Guy	**423H80**
	6	⅝ in	100 ft	Black	Aluminum	500 psi	Tough Guy	**423H81**
Heavy-Duty Hoses								
PVC								
130°F Max. Temp.	5	⅝ in	50 ft	Black	Aluminum	500 psi	Tough Guy	**423H86**
	5	⅝ in	50 ft	Green	Aluminum	500 psi	Tough Guy	**423H87**
	5	⅝ in	100 ft	Green	Aluminum	500 psi	Tough Guy	**423H88**
	5	¾ in	50 ft	Black	Aluminum	500 psi	Tough Guy	**423H89**
	5	¾ in	50 ft	Green	Aluminum	500 psi	Tough Guy	**423H90**
	5	¾ in	75 ft	Black	Brass	500 psi	Tough Guy	**423H91**
	5	¾ in	75 ft	Green	Brass	500 psi	Tough Guy	**423H92**
Standard-Duty Hoses								
PVC								
90°F Max. Temp.	4	⅝ in	50 ft	Green	Brass	250 psi	Tough Guy	**423H93**
	4	⅝ in	100 ft	Green	Brass	250 psi	Tough Guy	**423H94**
	4	½ in	50 ft	White	Aluminum	100 psi	Tough Guy	**423H97**
	4	⅝ in	50 ft	White	Aluminum	100 psi	Tough Guy	**423H98**
	4	½ in	25 ft	White	Aluminum	100 psi	Tough Guy	**423H96**
130°F Max. Temp.	4	⅝ in	100 ft	Yellow	Aluminum	250 psi	Tough Guy	**491G54**
Collapsible Nylon/PVC								
90°F Max. Temp.	0	½ in	50 ft	Green	Aluminum	400 psi	Flexon	**423J02**
Light-Duty Hoses								
PVC								
90°F Max. Temp.	3	⅝ in	50 ft	Green	Plastic/Brass	175 psi	Tough Guy	**423H95**
	3	⅝ in	15 ft	Green	Brass	175 psi	—	**423J01**
Polypropylene								
158°F Max. Temp.	2	⅝ in	25 ft	Blue	Brass	100 psi	Tuff Guard	**29FX94**
	2	⅝ in	50 ft	Green	Brass	100 psi	Tuff Guard	**29FX92**
	2	⅝ in	50 ft	Red	Brass	100 psi	Tuff Guard	**29FX93**
	2	⅝ in	50 ft	Blue	Brass	100 psi	Tuff Guard	**12F252**
	2	⅝ in	100 ft	Green	Brass	100 psi	Tuff Guard	**34FW19**
	2	⅝ in	100 ft	Blue	Brass	100 psi	Tuff Guard	**12F253**
Super Light-Duty Soaker Hoses								
Rubber/PVC								
90°F Max. Temp.	1	½ in	50 ft	Black	Plastic	100 psi	Tough Guy	**423H99**

442F17

423H82

TOUGH GUY

Heavy-Duty Hot/Cold Water Hoses

- GHT connections

Kink-resistant SEBS (Styrene Ethylene Butylene Styrene) hoses, 442F17 and 442F18 are certified for use in potable water applications and NSF 61 Listed. Rubber hoses have crushproof couplings and high-burst pressure.

Operating Temp.	Number of Ply	Hose Inside Dia.	Hose Length	Hose Color	Coupling Material	Max. Pressure	Item No.
Kink-Resistant Rubber Compound Hoses							
-40° to 165°F Max. Temp.	4	⅝ in	50 ft	Red	Aluminum	400 psi	**442F17**
-40° to 160°F Max. Temp.	4	¾ in	50 ft	Red	Aluminum	400 psi	**442F18**
Rubber Hoses							
180°F Max. Temp.	3	⅝ in	25 ft	Red	Aluminum	400 psi	**423H82**
	3	⅝ in	50 ft	Red	Aluminum	401 psi	**423H83**
	3	⅝ in	75 ft	Red	Aluminum	402 psi	**423H84**
	3	¾ in	50 ft	Red	Aluminum	403 psi	**423H85**

55AW95

55AX13

Continental ContiTech

EPDM Garden Hoses

- Temp. range: -40° to 190°F
- Safety factor: 4:1

EPDM (ethylene propylene diene monomer) garden hoses provide excellent resistance to UV rays and ozone and are used in landscaping and grounds-maintenance applications. Hoses with coupled assembly feature fittings on both ends for attaching to equipment. Bulk hoses do not come with fittings.

Hose I.D.	Max. Working Pressure @ 70°F	25 ft Item No.	50 ft Item No.	75 ft Item No.	100 ft Item No.
Bulk Hose					
½ in	150 psi	**55AW94**	**55AW98**	**55AX03**	**55AX07**
⅝ in	150 psi	**55AW95**	**55AW99**	**55AX04**	**55AX08**
¾ in	150 psi	**55AW96**	**55AX01**	**55AX05**	**55AX09**
1 in	150 psi	**55AW97**	**55AX02**	**55AX06**	**55AX10**
Coupled Assembly					
½ in	150 psi	**55AX11**	**55AX15**	**55AX19**	**55AX23**
⅝ in	130 psi	**55CN83**	**55CN84**	—	**55CN85**
	150 psi	**55AX12**	**55AX16**	**55AX20**	**55AX24**
¾ in	150 psi	**55AX13**	**55AX17**	**55AX21**	**55AX25**
1 in	150 psi	**55AX14**	**55AX18**	**55AX22**	**55AX26**

2LRL1

16X129

Wall-Mount Garden Hose Hangers

Metal—Hangers are rustproof.

Plastic—They hold up to 150-ft. of garden hose.

48PG05

2WE75

Hose Cap.	Overall Dim.	Material	Reel Color	Brand	Item No.
Metal					
75 ft (⅝ in I.D.)	12 ¼ in L x 9 in W x 8 in H	Steel	Tan	Liberty	**2LRK7**
125 ft (⅝ in I.D.)	3 ½ in L x 10 in W x 7 in H	Steel	Tan	Liberty	**2LRL1**
125 ft (⅝ in I.D.)	7 ¼ in L x 5 ¼ in W x 7 ¾ in H	Stainless Steel	Silver	Westward	**48PG06**
150 ft (⅝ in I.D.)	12 ½ in L x 11 in W x 9 ¾ in H	Steel	Silver	Yard Butler	**16X129**
175 ft (⅝ in I.D.)	7 in L x 11 in W x 10 ¾ in H	Stainless Steel	Silver	Westward	**48PG05**
Plastic					
150 ft (⅝ in I.D.)	8 ½ in L x 7 ¼ in W x 8 in H	Polymer	Tan	Ames	**2WE75**
150 ft (⅝ in I.D.)	14 in L x 5 ¾ in W x 13 in H	Resin	Brown	Suncast	**56LV23**
150 ft (⅝ in I.D.)	14 ¼ in L x 6 in W x 13 ¼ in H	Resin	Taupe	Suncast	**56LV21**

Garden Hose Reels

Enclosed Garden Spring-Return Hose Reels—The corrosion-proof, polypropylene case resists most acids, alkalis, and UV rays. The enclosed reel protects the hose, the reel, and the components inside from outdoor exposure. These low-pressure hose reels mount on exterior walls. Feature garden-style hose ends.

Metal Freestanding Garden Hose Reel—Unit features a heavy duty bracing and swivel 360°.

Plastic Freestanding Garden Hose Reel—Reel comes fully assembled with a swing up handle for portability.

Plastic Wall-Mount Garden Hose Reels—Hand-crank reels are manually-operated using a crank handle that is attached to the barrel of the reel.

24AD43
(Hose Included)

2WA47
(Hose Not Included)

Hose Cap.	Overall Dim.	Hose End Configuration	Maximum Operating Pressure	Reel Color	Brand	Item No.
Enclosed Garden Spring-Return Hose Reels						
Hose Included						
35 ft (⅝ in I.D.)	19 ¾ in L x 7 in W x 20 ¼ in H	¾ in MGHT	200 psi	Red	Reelcraft	**9DKU6**
50 ft (⅝ in I.D.)	19 5⁄16 in L x 9 3⁄16 in W x 22 in H	¾ in MGHT x ¾ in MNH	125 psi	Black	Reelcraft	**2CAJ5**
65 ft (½ in I.D.)	10 ⅛ in L x 17 13⁄16 in W x 23 ⅜ in H	¾ in FNPT	150 psi	Beige, Green	Westward	**24AD42**
65 ft (⅝ in I.D.)	26 in L x 11 5⁄16 in W x 18 ¼ in H	¾ in FNPT	150 psi	Beige, Green	Westward	**24AD44**
75 ft (½ in I.D.)	19 ⅛ in L x 10 ⅝ in W x 17 ⅛ in H	¾ in MGHT	140 psi	Gray	Legacy	**35Z357**
75 ft (⅝ in I.D.)	24 in L x 10 ½ in W x 25 ⅜ in H	¾ in MGHT	250 psi	White	Reelcraft	**8LZW7**
100 ft (½ in I.D.)	26 in L x 11 5⁄16 in W x 18 ¼ in H	¾ in FNPT	150 psi	Beige, Green	Westward	**24AD43**
Metal Freestanding Garden Hose Reel						
Hose Not Included						
200 ft (⅝ in I.D.)	16 ⅞ in L x 7 ⅞ in W x 16 ⅞ in H	—	150 psi	Gray	Yard Butler	**14R845**
Plastic Freestanding Garden Hose Reel						
Hose Not Included						
100 ft (⅝ in I.D.)	14 ¾ in L x 19 ½ in W x 19 in H	—	150 psi	Tan	Suncast	**56LV27**
Plastic Wall-Mount Hose Reels						
Hose Not Included						
100 ft (⅝ in I.D.)	11 ½ in L x 16 in W x 16 in H	—	150 psi	Bronze	Liberty	**56LV18**
100 ft (⅝ in I.D.)	15 ¾ in L x 11 ½ in W x 15 ¾ in H	—	150 psi	Tan	Suncast	**56LV26**
100 ft (⅝ in I.D.)	19 in L x 8 in W x 20 in H	—	85 psi	Brown, Tan	Ames	**2WA47**
125 ft (⅝ in I.D.)	8 ¼ in L x 19 in W x 21 ½ in H	—	150 psi	Tan	Suncast	**56LV25**
200 ft (⅝ in I.D.)	16 ½ in L x 22 ½ in W x 18 in H	—	150 psi	Tan	Suncast	**45CH37**
225 ft (⅝ in I.D.)	16 in L x 24 ½ in W x 18 in H	—	150 psi	Bronze	Liberty	**56LV19**

39E758

14R846

56LV28

Garden Hose Carts

Metal Garden Hose Carts—Feature swiveling wheels and large tow handles. Steel construction with a corrosion-resistant finish.

Plastic Garden Hose Carts—Feature rustproof plastics and include wheels for mobility.

Hose Cap.	Overall Dim.	Reel Color	No. of Wheels	Brand	Item No.
Metal Garden Hose Carts					
200 ft (⅝ in I.D.)	16 ⅞ in L x 7 ⅞ in W x 16 ⅞ in H	Gray	2	Yard Butler	**49XK98**
200 ft (⅝ in I.D.)	22 ⅝ in L x 21 5⁄16 in W x 40 in H	Bronze	2	Liberty	**56LV14**
200 ft (⅝ in I.D.)	26 ¾ in L x 3 15⁄16 in W x 38 in H	Gray	2	Suncast	**56LV31**
225 ft (⅝ in I.D.)	3 15⁄16 in L x 25 in W x 37 in H	Gray	4	Liberty	**56LV15**
300 ft (⅝ in I.D.)	3 15⁄16 in L x 24 in W x 36 ¾ in H	Bronze	2	Liberty	**2PAZ3**
300 ft (⅝ in I.D.)	29 ½ in L x 25 in W x 33 ½ in H	Tan	4	Liberty	**2LRL2**
350 ft (⅝ in I.D.)	3 15⁄16 in L x 24 ½ in W x 44 in H	Green	4	Liberty	**2LRK8**
400 ft (⅝ in I.D.)	18 in L x 14 ⅞ in W x 18 in H	Gray	4	Yard Butler	**14R846**
400 ft (⅝ in I.D.)	3 15⁄16 in L x 24 13⁄16 in W x 42 7⁄16 in H	Blue	2	Jackson	**39E758**
Plastic Garden Hose Carts					
150 ft (⅝ in I.D.)	26 ½ in L x 20 in W x 18 ¼ in H	Brown	2	Suncast	**56LV33**
175 ft (⅝ in I.D.)	20 ½ in L x 24 ½ in W x 32 ¼ in H	Tan	2	Suncast	**56LV28**
225 ft (⅝ in I.D.)	21 ¼ in L x 28 ¼ in W x 32 ¾ in H	Brown, Tan	2	Suncast	**56LV29**
225 ft (⅝ in I.D.)	23 in L x 20 in W x 32 ½ in H	Tan	2	Suncast	**56LV30**

4TMJ7
(Hose Not Included)

56LV34
(Hose Not Included)

Garden Hose Reel Cabinets

Hand-Crank Garden Hose Reel Cabinets—The hose pulls out of cabinet for use and allows the user to turn the hand crank to wind the hose back inside cabinet.

Battery-Powered Garden Hose Reel Cabinet—Cabinets allow users to manually pull out hose for use, and then automatically rewind the hose using foot pedal operation. Feature rechargeable battery and include a hose guide. A manual hand crank is included for battery backup.

Hose Cap.	Overall Dim.	Maximum Operating Pressure	Reel Color	Brand	Item No.
Hand-Crank Garden Hose Reel Cabinets					
50 ft (⅝ in I.D.)	17 ⅜ in L x 21 ¼ in W x 18 ½ in H	85 psi	Brown, Tan	Ames	**39E757**
100 ft (⅝ in I.D.)	15 ½ in L x 21 in W x 16 in H	150 psi	Tan	Suncast	**4TMJ7**
150 ft (⅝ in I.D.)	17 ½ in L x 25 in W x 18 in H	150 psi	Brown	Suncast	**56LV32**
225 ft (⅝ in I.D.)	21 in L x 26 in W x 27 ½ in H	150 psi	Tan	Suncast	**4TMJ6**
Battery-Powered Garden Hose Reel Cabinet					
100 ft (⅝ in I.D.)	18 ¾ in L x 23 in W x 21 ½ in H	150 psi	Tan	Suncast	**56LV34**

Mouse Traps

MULTIPLE-CATCH MOUSE TRAPS

Triangle Corner—Easy-to-set galvanized steel trap is designed to save floor space and capture live mice. Clear lid makes it easy to check contents.

Speedy Clean Little Pete—Ramp unit comes out quickly and easily for cleaning, or to use trap for insects. Pop-down tabs raise unit in damp areas. Clear lid allows quick visual inspection.

Repeating—Catches multiple mice with 1 setting; mechanism sweeps mice into holding chamber. No poisons or bait needed. Safe to use around children, pets, and in FDA/USDA-inspected plants.

Pro-Ketch Low-Profile and Ketch-All—Galvanized steel traps use no chemicals, baits, or poisons; approved for use in USDA/FDA-inspected facilities. Low-profile 1VJR6 is designed for confined spaces.

SPRING-LOADED MOUSE TRAPS

Jawz—Plastic-based trap with bait well. Easy to set; reusable.

Little Bigfoot—Wood-based trap with heavy-duty spring and expanded adjustable trigger for greater sensitivity.

Plastic Snap-E—A preformed bait cup aids in baiting, reduces bait stealing, and attracts mice to the ideal strike bar location.

Heavy-Duty—Reusable trap squeezes to set. Includes bait cup. For disposal, squeeze again to open.

GLUE MOUSE TRAPS

Stick-All—Prebaited to attract mice and insects without poisons or dangerous chemicals. Keeps them out of sight.

Cold Temperature—Nontoxic glue is formulated to be effective in temps. as low as 0°F. Excellent for use in unheated garages, basements, and in commercial walk-in refrigerators.

Baited—5DKE9 is prescored to fold for trapping and disposal. 5YAY1 nontoxic glue trays are prebaited with food-grade attractant. 11L633 adhesive traps also serve to monitor for insects.

Baited Mouse and Insect Boards—Nontoxic traps will not harden for 1 yr. under normal conditions. Perforated to tear off and place glue directly against baseboards to secure traps. Fold into tunnel shape for use in tight or dusty areas.

Pro Series Slim Multi-Catch —Narrow design can be placed in hard-to-reach areas where rodents travel. Use alone as a live trap, or add glue board 20YR50 (sold separately) to trap multiple mice.

Bulk Glue—Nontoxic glue is approved for use where pesticide use is prohibited or undesirable. Spreads easily in lower temperatures.

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Multiple-Catch Mouse Traps				
Triangle Corner, Clear Lid	7 ¾ in x 7 ¾ in	—	**32J095**	1
Speedy Clean Little Pete	10 ⅜ in x 3 ½ in	JT Eaton	**18F563**	1
Repeating, Solid Lid	10 ½ in x 6 ½ in	—	**32J089**	1
Repeating, Clear Lid	10 ½ in x 6 ½ in	—	**32J090**	1
Clear Lid	9 ¼ in x 7 ½ in	Kness Pest Defense	**3KJE7**	1
Pro-Ketch Low-Profile, Clear Lid	10 ⅛ in x 6 ¼ in	Kness Pest Defense	**1VJR6**	1
Ketch-All	9 ¼ in x 7 ½ in	Kness Pest Defense	**1VJR5**	1
Spring-Loaded Mouse Traps				
Jawz	4 ½ in x 2 ½ in	JT Eaton	**6VEZ6**	2
Little Bigfoot	4 in x 2 in	JT Eaton	**6VFA1**	4
Plastic Snap-E	4 in x 1 ⅞ in	Kness Pest Defense	**1VJR9**	1
Heavy-Duty	2 ½ in x 5 in	Tomcat	**20K865**	2
Glue Mouse Traps				
Stick-All Board Trap	7 ⅝ in x 5 in	Kness Pest Defense	**6VFA2**	1
Stick-All Board Inserts	7 ⅝ in x 5 in	Kness Pest Defense	**1VJT2**	4
Stick-All Trap, Includes (1) Board Insert	9 ¼ in x 7 ⅜ in	Kness Pest Defense	**1VJT1**	1
Cold Temperature	10 ¼ in x 5 ¼ in	Catchmaster	**3LMN8**	2
Baited	¼ in x 7 ½ in	Catchmaster	**5DKE9**	1
	5 ¼ in x 6 in	Catchmaster	**5YAY1**	4
Pro-Ketch Baited	10 ⅛ in x 4 ⅛ in	Kness Pest Defense	**11L633**	10
Baited Mouse and Insect Boards	8½" x 5¼"	Catchmaster	**5YAY6**	2
	8½" x 5¼"	Catchmaster	**5YAY5**	4
Pro Series Slim Multi-Catch	16 in x 2 ¼ in	Catchmaster	**20YR49**	1
Slim Multi-Catch Replacement Glue Boards	4 in x 0 in	Catchmaster	**20YR50**	10
Bulk Glue, 1 gal.	6½" x 6½"	Catchmaster	**3KJF8**	1

18F563

32J095

6VFA1

32J089

1VJR9

20K865

5DKE9

11L633

20YR49

Rat Traps

3LMP2

6VEZ7

21A744

16W258

3LMN7

SPRING-LOADED RAT TRAPS

Plastic Big Snap-E—A preformed bait cup aids in baiting, reduces bait stealing, and attracts rats to the ideal strike bar location.

Note: Can be used for both rats and mice.

Bigfoot—Heavy-duty spring and expanded adjustable trigger setting provide greater sensitivity.

Jawz—Heavy-duty plastic with strong spring for quick kills. Reusable. Set by hand or foot. Quick-release button. Includes bait holder.

Rat Snap Trap—Interlocking teeth snap making escape almost impossible. Reusable. Easy-to-use and set with no-touch disposal.

GLUE RAT TRAPS

Rat Glue Boards—Suitable for use on mice and other rodents. Indoor use.

Baited Glue Trap—Nontoxic formula. Included Hercules Putty helps prevent dragging.

Glue Board—Ready-to-use board is nontoxic, economical, and traps both mice and rats.

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Spring-Loaded Rat Traps				
Plastic Big Snap-E	5½" x 3"	Kness Pest Defense	**3LMP2**	1
Bigfoot	9½" x 4⅜"	JT Eaton	**6VEZ7**	1
Jawz Rat and Chipmunk Snap Trap	8½" x 5⅞"	JT Eaton	**21A744**	1
Rat Snap Trap	8¾" x 3¾"	Tomcat	**16W258**	1

Description	Dim. L x W	Brand	Item No.	Pkg. Qty.
Glue Rat Traps				
Rat Glue Boards	6½" x 5"	Kness Pest Defense	**6VFA3**	2
Baited Glue Trap	10¼" x 5¼"	Catchmaster	**3LMN7**	2
Glue Board	9¾" x 4¾"	Tomcat	**3LMN9**	2

16W257

8CVE7

32J093

16W255

5PTT6

Mouse and Rat Bait Stations and Rodenticides

Bait Stations—Stations provide a place where rodents feel secure while feeding on poisonous bait. Tamper-resistant designs keep bait out of reach of livestock, children, pets, and nontarget animals. Stations do not require the cleanup of traps and can help monitor rodent activity.

Rodenticides—Pellets are for burrow baiting, while bait packs help protect bait and fit in tight spaces. Block baits are for all-weather use and resist mold and moisture. Brodifacoum formula is for single-feed use. Bromadiolone is a single-feed bait for everyday control of recurring rodent problems. Bromethalin acts quickly and is highly palatable to rodents. Diphacinone formula is an economical bait for day-to-day control of recurring rodent problems.

Description	Container Size L x W x H	Brand	Item No.	Pkg. Qty.
Bait Stations				
Mouse, Contains Bromethalin				
Disposable, Includes 1-oz. Bait Block	6 in x 2 ⅝ in x 3 ¾ in	Tomcat	**16W257**	1
Refillable, Includes (16) 1-oz. Bait Blocks	6 in x 2 ⅝ in x 3 ¾ in	Tomcat	**12F883**	1
Rat, Contains Bromethalin				
Rodent Station, Includes 15 Bait Blocks	3 ⅜ in x 6 ¼ in x 9 ¾ in	Tomcat	**45GP71**	1
Mouse (Bait Sold Separately)				
Triangle Corner Design, Low-Profile, Tamper-Resistant with Plastic Key	5 in x 4 in x 1 ¼ in	Tomcat	**8CZD0**	1
Mouse and Rat (Bait Sold Separately)				
Tamper-Resistant with Metal Key	9 ½ in x 8 ½ in x 4 ½ in	Tomcat	**8EZD9**	1
Top Loader T-Shape Tamper-Resistant with Gravity Feed Bait Rod	15 ¼ in x 4 ½ in x 12 in	JT Eaton	**5PTT5**	1
Low-Profile, Tamper-Resistant	9 ½ in x 8 ½ in x 2 ½ in	Tomcat	**8CVE7**	1
Low-Profile, Tamper-Resistant with Metal Key	8 ½ in x 10 in x 3 ¼ in	—	**32J093**	1
Rodenticides				
Contains Brodifacoum				
0.70-oz. Chunks	9 lb Pail	Jaguar	**9W388**	1
0.70-oz. Chunks	18 lb Pail	Jaguar	**9GZA6**	1
Contains Bromadiolone				
1-oz. Chunks	9 lb Pail	Hawk	**8CXK5**	1
Contains Bromethalin				
(64) 1-oz. Chunks	4 lb Pail	Tomcat	**16W255**	1
(121) 15g Blocks	4 lb Pail	Rampage	**12M838**	1
(22) 3-oz. Pellet Packs	4-lb. Pail	Tomcat	**44C823**	1
(128) ½-oz. Pellet Packs	4 lb Resealable Pail	JT Eaton	**5PTT6**	1
Mole Bait, Earthworm Shape		Motomco	**8TRP7**	12
Meat Bait	5 lb Pail	Tomcat	**45GP70**	1
Contains Diphacinone				
(22) 3-oz. Pellet Packs	4.1 lb Pail	Tomcat	**16W256**	1
(64) 1 oz Blocks with Peanut Butter Flavorizer	4 lb Pail	JT Eaton	**22CT53**	1
(144) 1 oz Blocks with Peanut Butter Flavorizer	9 lb Resealable Pail	JT Eaton	**5PTT7**	1
Gopher Bait, Includes (40) 4-oz. Blocks	10 lb Resealable Pail	JT Eaton	**5PTP8**	1 *

**** Only for sale to states west of the Mississippi River and Tennessee.***

32J091

45DV76

35HV19

5PTV2

35HX45

Animal Traps and Repellents

Mole Traps—Trap moles at the entrances and exits of surface tunnels.

Animal Traps—Easy to bait, set, and release. Smooth inside edges do not harm animals. Effective for a wide variety of animals.

Repellex—Repellents are made from plant-based materials and have no harmful chemicals or pesticides. Not for use on food crops. Innovative emulsifying agents allow formula to absorb quickly into the soil and form a protective coating around plant roots and other underground food sources.

Transonic Mole—Nontoxic solution to most outdoor rodent problems. Stake into ground, where solar-powered unit flashes, buzzes, and vibrates, to disorient and repel moles and gophers.

Rat-Out Gel—Nontoxic gel repels rats, mice, squirrels, gophers, and other mammals. The garlic smell deters rodents before they even touch it, but if they do come into contact with the gel, its tacky quality turns them away.

Description	Overall L	Brand	Item No.
Mole Traps			
Plunger-Style	15 ½ in	—	**32J091**
Spring-Loaded	—	Motomco	**5MGY8**
Animal Traps—Steel Cage with Gravity Action Door			
Small Rodents	16 in	JT Eaton	**29FX41**
Cats, Rabbits, Squirrels	24 in	JT Eaton	**29FX42**
Small Birds	17 ¼ in	Kness Pest Defense	**3KJH7**
Raccoons	36 in	Kness Pest Defense	**45DV76**
Pigeons	36 ¼ in	Kness Pest Defense	**3KJH9**
Foxes, Coyotes, Armadillos	42 in	JT Eaton	**29FX40**
Animal Trap—Polyethylene Cage with Spring-Loaded Door			
Skunks	8 in	JT Eaton	**35HV19**
Repellents			
Repellex, 32-oz. Ready-to-Spray, Covers 8,000 sq. ft.	—	Repellex	**9XXG0**
Repellex, 1 gal. Concentrate, Covers 32,000 sq. ft.	—	Repellex	**9XXG1**
Repellex, 7-lb. Pail, Granular, Covers 7,000 sq. ft.	—	Repellex	**9XV02**
Repellex, 24-lb. Pail, Granular, Covers 24,000 sq. ft.	—	Repellex	**9XX36**
Transonic Mole Stake Repellent, Covers 7,800 sq. ft.	0.58 ft	Bird-X	**5PTV2**
Rat-Out Gel, Pack of (3) 1-oz. Tubes	—	Bird Barrier	**35HX45**

6KHE2

5PTU8

1DGX2

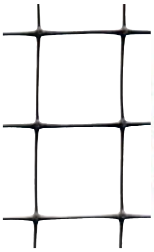
Wildlife Repellents

Systemic Repellents—Deliver hot pepper concentrate through the plant roots making plants inedible to animals. Maintain potency while evenly distributed throughout the plant. One treatment can last the entire growing season. Not for use on food crops.

Granular Repellent—Organic, all-natural formula is safe to use around children, pets, and food crops. Granules will not wash away in the rain, evaporate, or freeze. Easy to apply by shaking on the ground.

Electronic Repellents—Use 6WB54 indoors. Sonic and ultrasonic sounds repel insects, rodents, bats, and spiders. Used outdoors, 1DGX2 is a humane, maintenance-free ultrasonic yard protector for deer, raccoons, rabbits, squirrels, skunk, rodents, and more. Continuous or motion-sensor operation.

Description	Brand	Item No.
Systemic Repellents		
50 Tablets	Repellex	6KHD9
150 Tablets	Repellex	6KHE0
300 Tablets	Repellex	6KHE1
500 Tablets	Repellex	6KHE2
Granular Repellent		
All-Purpose, 5 gal.	Weiser's Nature'S Defense	5PTU8
Electronic Repellents		
Indoor, 115VAC	Bird-X	6WB54
Outdoor, 115VAC	Bird-X	1DGX2


9NT24

5PTV1

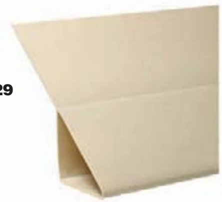
Deer Fencing and Repellents

Deer Fencing—Environmentally safe polypropylene netting. UV treated for long-lasting durability. Attaches to metal or wooden stakes.

Vegetation Protection Repellent—Cinnamon oil-based repellent can be applied to all vegetation to repel deer and other chewing animals.

Electronic Repellent—Built-in infrared motion sensor. Continuous or motion-detection operation. Features adjustable frequency and snap-on rain cover.

Description	Brand	Item No.
Deer Fencing Kit—Includes Poles, Staples, and Ties		
⅝" x ¾" Mesh, 7 x 100-ft.	Tenax	35HV20
Deer Fencing		
¾" Square Mesh, 7 x 100-ft.	Tenax	9TAL7
¾" Square Mesh, 7 x 100-ft.	Dewitt	444N77
¾" Square Mesh, 7 x 350-ft.	Dewitt	5TXG5
2" Square Mesh, 7½ x 100-ft.	Tenax	9NT24
2" Square Mesh, 7½ x 330-ft.	Tenax	8W125
2" Square Mesh, 10 x 330-ft.	Tenax	8VZW5
2" Square Mesh, 15 x 330-ft.	Tenax	9T036
Vegetation Protection Repellent		
1-gal. Ready-to-Use Liquid	Repellex	9TY05
Electronic Repellent		
Ultrasonic, 110VAC	Bird-X	5PTV1


49XX29

Bird Slides

Birds slide off surfaces because they can't get a grip. Use on ledges, eaves, angle irons, I-beams, and most "L" shaped ledges to protect against all bird species. Can be primed and painted to match color of structure to look like it's a part of the building. Trim for fit.

Overall L	Overall W	Overall H	Beige Item No.	Gray Item No.
5 ft	1 ½ in	1 ½ in	—	49XX44
5 ft	1 ½ in	6 in	49XX34	49XX42
5 ft	1 ½ in	12 in	49XX36	—
5 ft	6 in	8 ½ in	49XX30	49XX38
5 ft	11 in	14 ½ in	49XX32	49XX40
5 ft	15 ft	6 in	49XX35	49XX43
5 ft	15 ft	8 ½ in	49XX31	49XX39
5 ft	50 ft	6 in	49XX33	49XX41
5 ft	50 ft	8 ½ in	49XX29	49XX37

3NZD1

8DCF8

20YR37

Visual Bird Repellers

2D and 3D Decoys—Stake decoys into the ground to repel geese. 3D bodies swivel on stake and furry tail moves in the wind.

Terror-Eyes—Inflatable, moving bird predator uses holographic, moving eye lenses that follow infesting birds.

Scare Eyes—Inflatable repellent simulates glaring eyes of predator birds. Rotate colors within 3 weeks for max. effectiveness.

Screech Owl—20YR37 features 4 predator/scare sounds, which are photocell-activated during daylight hours.

Gator Guard—Floating alligator head repels geese and small animals from water areas.

Irri-Tape—Iridescent diffraction foil ribbon combines holography, wind, and light to create a ripple effect that pest birds perceive as a danger signal.

Floating Swan—Repels Canada geese. Effective on water or land; 2 steel anchoring stakes included. For best results, relocate the decoy periodically.

Falcon Decoy—Covers up to 6,000 sq. ft. Scares small pests and birds such as pigeons and gulls. Place on flat surface. Bottom has a plug that can be removed to fill with sand to weigh down base.

Optical Gel—Keeps birds off of structures without harming them. Supplied in ready-to-use plastic dish container which can be affixed to surfaces with commercially available dab of silicone. Birds see ultraviolet light spectrum as fire and avoid site. Gel has firm density that won't run. Resistant to high and low temperatures, rain, and snow.

Description	Dim.	Brand	Item No.
2D Decoy, Coyote	24 inL x 1 inW x 20 inH	Bird-X	8ENF6
3D Decoy, Coyote	36 inL x 8 inW x 16 inH	Bird-X	3NZD1
3D Decoy, Fox	30 inL x 6 ½ inW x 18 ½ inH	Bird-X	12V871
Terror-Eyes	24 in dia.	Bird-X	1DGW8
Scare Eyes, Yellow	18 in dia.	Bird-X	8DCF8
Scare Eyes, White	18 in dia.	Bird-X	8DCF9
Scare Eyes, Black	18 in dia.	Bird-X	8Y281
Screech Owl without Sound	22 inH	Bird Barrier	20YR38
Screech Owl with Sound	22 inH	Bird Barrier	20YR37
Gator Guard	24 inL x 11 inW x 7 inH	Bird-X	1DGX1
Irri-Tape	100 ftL x 2 inW	Bird-X	1DGX3
Irri-Tape	500 ftL x 4 inW	Bird-X	9VZE0
Floating Swan	36 inL x 18 inW x 11 inH	Flambeau	9ATJ0
Falcon Decoy, Multicolor	7 inL x 7 inW x 16 inH	Bird-X	45LW37
Optical Gel	—	Bird Barrier	53PZ98

Bird Exclusion Netting

Composed of thin, ultra-strong, knotted strands of polyethylene twine, this exclusion system denies pest birds access to any architectural configuration, including roof tops, overhangs, parking garages, etc.

		NET MESH SIZE			
		¾"		2"	
Coverage	Overall W	Overall L	Item No.	Overall L	Item No.
625 sq ft	25 ft	—	—	25 ft	49XX51
1250 sq ft	25 ft	—	—	50 ft	49XX52
1875 sq ft	25 ft	75 ft	49XX45	75 ft	49XX53
2500 sq ft	50 ft	50 ft	49XX46	50 ft	49XX54
3750 sq ft	50 ft	75 ft	49XX47	75 ft	49XX55
5000 sq ft	50 ft	100 ft	49XX48	100 ft	49XX56
10,000 sq ft	100 ft	100 ft	49XX49	100 ft	49XX57
20,000 sq ft	100 ft	200 ft	49XX50	200 ft	49XX58

49XX46

BIRD-X

Bird Repellent Nets, Spikes, Gel, and Spray

Bird Nets and Clips—Seal off all structural openings to keep out birds and small animals.

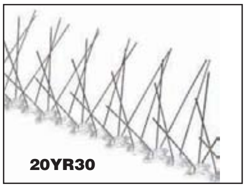
Spikes Needle Strips, Kits, and Adhesive—Attach to any surface to permanently prevent birds from landing and roosting. Install with adhesive, sold separately.

Birdproof Gel—Nontoxic formula deters all birds and helps prevent landing and roosting by creating a sticky surface. Apply with a caulking gun, indoors or out. Solvent removal. EPA Registered.

Repellent Spray—Goose repellant can be sprayed with agricultural or hand sprayer on turf, fruits, vegetables, fountains (without fish), pools, and building structures. Not harmful to plants or animals.

Description	Overall L	Overall W	Coverage	Item No.
Bird Nets and Clips				
Nets	25 ft	25 ft	625 sq ft	3NZC8
	50 ft	50 ft	2500 sq ft	3NZC9
	100 ft	14 ft	1400 sq ft	9CLD7
Clips, Pkg. of 250	9 in	6 in	—	8N787
Spike Needle Strips and Kits				
302 Stainless Steel Spikes, 2-ft. Sections	10 ft	5 in	10 linear ft, 2 ft Sections	6WB50
	24 ft	5 in	24 linear ft, 2 ft Sections	6WB51
302 Stainless Steel Spike Kit, 2-ft. Sections	50 ft	4 ½ in	50 linear ft, 2 ft Sections	9LAV4
	100 ft	5 in	100 linear ft, 2 ft Sections	5PTU4
Polycarbonate Spikes, 1-ft. Sections	10 ft	5 in	10 linear ft, 1 ft Sections	6WB57
	25 ft	5 in	25 linear ft, 1 ft Sections	6WB58
Polycarbonate Spike Kit, 1-ft. Sections	50 ft	6 ½ in	50 linear ft, 1 ft Sections	9Y575
	100 ft	5 in	100 linear ft, 1 ft Sections	9EZF7
Spike Adhesive				
Cartridge Tube			20 ft	6CJN8
Birdproof Gel				
Cartridge Tube, 10.5 oz, Pkg. of 12			120 linear ft	6WB53
Repellent Spray				
Biodegradable Food-Grade Concentrate, 1 gal			1500 sq ft to 1 Acre	6MRH8

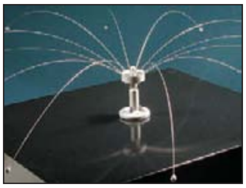
20YR36



20YR30

35HX40

20YR25



Bird Deterrents

Bird Barrier

Products are designed to avoid injury to humans, birds, or animals.

StealthNet—Ultrastrong, UV-resistant polyethylene netting provides an impenetrable barrier against sparrows, swallows, and other small birds. Black color. Custom sizes are available; call 1-800-GRAINGER (472-4643).

Bird-Flite—Thin stainless steel rods on a polycarbonate base repel pigeons and larger birds from signs, chimneys, security cameras, cut-outs, lights, pipes, and ledges. Glue or screw in place.

Dura-Spike—Blunt stainless steel spikes discourage pigeons and larger birds from landing and nesting. Flexible construction conforms to building features, such as ledges, parapets, pipes, chimneys, lights, etc. Cut to length and glue or screw in place.

Bird Coil—Expanding coils destabilize surfaces and discourage birds from landing. Kits include clips, end brackets, and other hardware or adhesive to attach to your specific substrate.

Daddi Long Legs—Device's stainless steel rods rotate and wave in the breeze, interfering with birds' wings as they try to land. Effective against gulls, pigeons, and larger birds. Plastic base screws into most surfaces.

Installation/ Description	Overall L	Overall W	Item No.
StealthNet			
¾" Mesh	25 ft	25 ft	20YR36
	50 ft	25 ft	20YR35
StealthNet Economy Netting			
¾" Mesh	100 ft	14 ft	20YR34
Bird-Flite			
Narrow Ledge 1" to 4"	10 ft	2 ½ in	20YR30
	25 ft	2 ½ in	20YR31
	50 ft	2 ½ in	20YR29
	100 ft	2 ½ in	20YR28
Wide Ledge 4" to 7"	10 ft	5 in	35HX37
	25 ft	5 in	35HX38
	50 ft	5 in	35HX36
	100 ft	5 in	35HX35
Extra-Wide Ledge 7" to 10"	50 ft	8 in	20YR33
	100 ft	8 in	20YR32
Dura-Spike			
Narrow Ledge 1" to 4"	51 ft	2 ½ in	35HX39
	102 ft	2 ½ in	35HX40
Wide Ledge 4" to 7"	51 ft	5 in	35HX41
	102 ft	5 in	35HX42
Extra-Wide Ledge 7" to 10"	51 ft	8 in	35HX43
	102 ft	8 in	35HX44
Bird-Coil			
Coil Clip Kit for Sheet Metal Surfaces	25 ft	4 in	20YR41
Coil Clip Kit for Concrete/ Masonry Surfaces	25 ft	4 in	20YR39
Coil Clip Kit with Adhesive Glue (No Drilling)	25 ft	4 in	20YR40
Coil Clip Kit for Wood Surfaces	25 ft	4 in	20YR42
Daddi Long Legs			
Plastic Base Surface Mount	4 ft	—	20YR25
	6 ft	—	20YR26
	8 ft	—	20YR27
Spike Adhesive			
Cartridge Tube, 0.63 lb Gray	—	—	45KA06

1DGW6

6WB52

BIRD-X

Silent and Audible Bird Repellers

ULTRASONIC BIRD REPELLERS

Balcony Guard—Keeps birds away with continuous or motion-sensor operation. Weatherproof. 120V power or 4 C batteries (not included). Includes mounting kit.

Ultrason X—Ultrasonic sounds get rid of birds, bats, rodents, and more. Weatherproof. For indoor or outdoor use.

Quad Blaster—Ultrasonic sound waves attack birds and bats in any enclosed or semi-enclosed areas. For indoor use only. 3NZD2 includes red strobe light that acts as visual deterrent.

SONIC BIRD REPELLERS

Broadband PRO—Controls bird pests with ultrasonic and sonic signals. Has a series of species-specific distress cries and predators' noise. Includes 3 visual predators: Scare Eyes, Prowler Owl, and Irri-Tape. For indoor or outdoor use.

BirdXPeller Pro and Pro 2—Bird distress sounds and predator noises are effective against targeted species. 6WB52 repels pigeons, starlings, sparrows, and gulls. 8DML0 repels grackles, blackbirds, crows, cormorants, and ravens.

Super BirdXPeller Pro and Pro 2—Use birds' own distress calls to scare them away. Include

Description	Coverage	Item No.
Ultrasonic Bird Repellers		
Balcony Guard	900 sq ft	34Z719
Ultrason X	3600 sq ft	1DGW6
Quad Blaster	6500 sq ft	1DGW4
Quad Blaster with Strobe	6500 sq ft	3NZD2
Sonic Bird Repellers		
Broadband PRO	10,000 sq ft	1DGW3
BirdXPeller Pro	Up to 1 acre	6WB52
BirdXPeller Pro 2	Up to 1 acre	8DML0
Super BirdXPeller Pro	Up to 6 acres	1DGW7
Super BirdXPeller Pro 2	Up to 6 acres	5PTU5
Electronic GooseBuster PRO Single Speaker System	Up to 1.5 acres	45LW36
Remote Extension Speaker		
For Use with 1DGW3, 1DGW4, 1DGW7, 3NZD2, 5PTU5, 6WB52, 8DML0	Up to 1 acre	6WB56

24K340

2W547

1ABE2

1ABE3

1ABE1

3ZF09

5FZT5

2W579

4LV49

4LV51

CATCHMASTER FLOWTRON®

Insect Killers and Accessories

Safe and effective units attract flies and other light-sensitive flying insect pests with multiple attractants, including ultraviolet light and pheromone-based lure.

Adhesive Board—Safe, silent traps draw pests to a strategically placed large-capacity adhesive board, where they get stuck and remain trapped. Once full, boards are easy to dispose of and replace. 24K340 GLOstik Flying Insect Trap features a reflective cap with high-efficiency LED light to attract and trap insects to the disposable glue tube. Portable, reusable, battery-operated base with LED lasts up to 10,000 hr. Uses (3)AAA batteries not included. NightGuard 1ABE2 is a portable, free-standing unit. Galaxie 1ABE3–1ABE6 use a combination of ultra-violet energy and Flowtron's exclusive fly attracting pheromone. Ideally suited for installation in front-of-store locations. Elite Stun Unit 1ABE1 special stun effect ensures out of sight capture.

Zapper Lantern Style—Once drawn to the unit, insects fly through an electro-statically charged grid where they are killed instantly. 2W546 and 3ZF09 have removable collection chambers.

PowerVac Vacuum—Once flying pests are attracted close enough to the unit, the powerful vacuum draws them in to a removable, see-through tray for easy disposal. Weatherproof, lightweight, portable unit can be used in just about any outdoor location.

Flowtron Backflight Retrofit Kit—4LV47 includes bracket with prewired socket, bulb, 2 screws, and foam pad with adhesive back.

Description	Coverage (sq. ft.)	Total Lamp Watts	Includes	H	W	D	Brand	Mfr. Model	Item No.
Indoor/Outdoor Use									
Adhesive Board									
Freestanding, Hook Mount, Battery-Powered	—	—	LED Light Base, (2) Glue Traps	10 in"	3 in"	—	Catchmaster	908	**24K340**
Zapper Lantern Style									
Wall or Hook Mount	2,000 sq ft	120 W	Fly Sex Pheromone	28 ½ in"	12 ⅜ in"	12 ⅜ in"	Flowtron	FC8800C	**2W547**
Indoor Use									
Adhesive Board									
Freestanding, Floor Mount	500 sq ft	30 W	Fly Sex Pheromone	11 in"	18 ½ in"	3 ⅞ in"	Flowtron	FC4900	**1ABE2**
Wall Mount Sconce Style, Cream Cover	600 sq ft	40 W	Fly Sex Pheromone	14 ¾ in"	16 in"	5 ½ in"	Flowtron	FC4400	**1ABE3**
	1,200 sq ft	80 W	Fly Sex Pheromone	14 ¾ in"	16 in"	5 ½ in"	Flowtron	FC4800	**1ABE5**
Wall Mount Sconce Style, Stainless Steel Cover	600 sq ft	40 W	Fly Sex Pheromone	14 ¾ in"	16 in"	5 ½ in"	Flowtron	FC4410	**1ABE4**
	1,200 sq ft	80 W	Fly Sex Pheromone	14 ¾ in"	16 in"	5 ½ in"	Flowtron	FC4810	**1ABE6**
Wall or Hook Mount	1,200 sq ft	80 W	Fly Sex Pheromone	18 in"	15 in"	5 in"	Flowtron	FC4700	**1ABE1**
Zapper Lantern Style									
Wall Mount	1,200 sq ft	80 W	Fly Sex Pheromone	18 in"	15 ¼ in"	5 ¼ in"	Flowtron	FC7600	**2W546**
	2,000 sq ft	120 W	Fly Sex Pheromone	25 ¾ in"	15 in"	5 in"	Flowtron	FC7800B	**3ZF09**
Outdoor Use									
Vacuum									
Freestanding, Floor Mount	43,560 sq ft	14 W	Octenol	33 in"	14 in"	17 in"	Flowtron	PV440B	**5FZT5**
Zapper Lantern Style									
Hook Mount	43,560 sq ft	40 W	—	15 ¾ in"	9 ¾ in"	9 ¾ in"	Flowtron	BK-40-D	**2W545**
	65,340 sq ft	80 W	—	17 ¾ in"	11 in"	11 in"	Flowtron	BK-80-D	**2W579**

Description	For Use with Grainger Item No.	Mfr. Model	Item No.	Pkg. Qty.
Catchmaster Accessories				
Electric Plug-In Insect Trap				
Glue Board Trap Refill	24K338	920	**24K339**	2
Replacement 13W UV Bulb	24K338	906B	**24K342**	1
Flowtron Accessories				
Replacement Adhesive Fly Boards				
4½ x 14"	1ABE1	GB470	**1ABE7**	12
7½ x 15½"	1ABE3, 1ABE4, 1ABE5, 1ABE6	GB440	**1ABE9**	12
12 x 18"	1ABE2	GB490	**1ABE8**	6
Lures and Attractants				
Fly Lure	Any	FA-5000	**4LV49**	1
Mosquito Attractant	—	MA-1000	**4LV51**	1
	—	MA-1000-6	**8FZZ9**	6
Blacklight Replacement Bulbs				
7W, U-Shape	5FZT5	BF-210	**5FZT7**	1
15W, Straight	1ABE2	BF205	**1ABF1**	2
	2W545	BF190	**4LV46**	1
40W, U-Shape	3ZF09, 2W547	BF130	**4LV43**	1
	1ABE1, 1ABE3, 1ABE4, 1ABE5, 1ABE6, 2W546, 2W579	BF150	**4LV44**	1
	—	BF175	**4LV45**	1
Blacklight Retrofit Kit w/4LV44 Bulb				
40W	—	RK 60	**4LV47**	1

36WG52

4HK65

36WG49

40P488

36WG48

1PA24

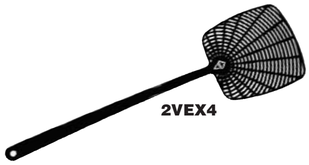
CRC Cutter OFF! REPEL HARRIS SCRUBS

Insect Repellents

Help repel flies, gnats, mosquitoes, ticks, and more. 20KC01 and 36WG49 can be applied directly to flame-resistant (FR) clothing, shoes, tents, and other gear to provide 2 week protection while preserving its flame protection.

Description	DEET Concentration	Size	Item No.	Pkg. Qty.
Aerosol				
CRC Flame Resistant Clothing Insect Repellent	DEET-Free	6 oz.	**20KC01**	1
Cutter Backwoods Dry Insect Repellent	25.00%	4 oz.	**36WG52**	1
Cutter Backwoods Insect Repellent	25.00%	6 oz.	**36WG47**	1
OFF! Deep Woods	25.00%	6 oz.	**4HK65**	1
Repel Permethrin Clothing and Gear Insect Repellent	—	6.5 oz.	**36WG49**	1
Repel Sportsmen Max Aerosol	40.00%	6.5 oz.	**48WJ99**	1
Liquid Spray				
Repel 100 Insect Repellent	98.11%	1 fl. oz.	**36WG51**	1
Harris Swamp Gator	DEET-Free	6 oz.	**40P488**	1
OFF! Deep Woods Sportsmen	98.25%	1 fl. oz.	**4HK66**	1
OFF!® FamilyCare Clean Feel	DEET-Free	6 fl. oz.	**2CYD9**	1
Repel 100 Insect Repellent	40.00%	0.475 fl. fl. oz.	**36WG48**	1
Repel Sportsmen Max Spray Pump	40.00%	6 oz.	**48WK01**	1
Wipes				
Repel Insect Repellent, 5"W x 7"L, Pkg. of 15	30.00%	3 oz.	**36WG53**	1
OFF! Deep Woods, 6"W x 6"L Individually Wrapped	25.00%	6 oz.	**2CYE1**	144
SCRUBS INSECT SHIELD, 8"W x 10"L Individually Wrapped	30.00%	52.8 oz.	**1PA24**	100

8DF85



2VEX4

5YAY4

45WP99

36A149

TOUGH GUY CATCHMASTER BIRD-X

Flyswatters and Insect Traps

Flyswatters—Stiff plastic mesh head measures 5"W x 5"L.

Flying Insect Glue Trap—Adhesive trap has multibait attractant for common flour and grain moths.

Fly Traps—5YAY4 controls nuisance flies and also monitors fly populations to help determine when to treat. 5ZPK8 is a nontoxic, odorless and transparent sticky trap that mounts on indoor window panes to trap all types of flying insects. 8DF85 and 8CNR3 have a multibait attractant designed to lure multiple fly species. 8DF85 provides inconspicuous pest control. 8CNR3 features a fluorescent chartreuse color and double-sided surface area to trap up to 10,000 flies. 45WP99 has a specially formulated lure designed to attract a broad range of flies. Just add water and hang. Features safety lock cap and leakproof design.

Crawling Insect Glue Trap—Ready to use for trapping crickets, roaches, spiders, and other crawling household pests.

Bed Bug Prevention and Detection Monitors—Help identify post-treatment activity. 6JHG3 is a cost-effective monitor with low-profile design ideal for tight spaces or behind bed boards. 36A149 provides easy visual inspection through the clear shell; for use under mattresses.

Description.	Brand	Item No.
Flyswatters		
Plastic Handle, 17"L	Tough Guy	**2VEX4**
Wire Handle, 23"L	Tough Guy	**2VEX3**
Flying Insect Glue Trap		
5¼"W x 8½"L	Catchmaster	**4XTZ9**
Fly Traps		
Fly Ribbon, 1½"W x 25"L, Pkg. of 4	Catchmaster	**5YAY4**
Window Pane Trap, 3"H x 7"W, Pkg. of 4	Catchmaster	**5ZPK8**
Glue Trap, 2"W x 24"L	Catchmaster	**8DF85**
Glue Trap, 22"H x 11"W	Catchmaster	**8CNR3**
Disposable Fly Bag Trap, Holds 30,000 Flies	Catchmaster	**45WP99**
Crawling Insect Glue Trap		
3½"W x 7"L, Pkg. of 4	Catchmaster	**5YAY3**
Bed Bug Prevention and Detection Monitors		
Cardboard Shell with Patterned Adhesive, Pkg. of 6	Catchmaster	**6JHG3**
Plastic Shell with Gel Adhesive Lure, Pkg. of 12	Bird-X	**36A149**

Insect Fogger and Insecticides

Burgess BLACK FLAG

- For outdoor use only

Propane-powered unit dispenses a 10-ft.wide cone of fogging insecticide for long-lasting control of biting flies and mosquitoes. Uses fogger with Insecticides 6FJE8 and 6FJE9, sold separately below. Propane Cylinder 5UX34 sold separately on Grainger.com.

6FJE6

Description	Brand	Item No.
Propane-Powered Insect Fogger	Burgess	**6FJE6**
Fogging Insecticide, Ready-to-Use, 32 oz.	Black Flag	**6FJE8**
Fogging Insecticide, Ready-to-Use, 64 oz.	Black Flag	**6FJE9**

Ben's
DON'T GET BITTEN, GET BEN'S®

Outdoor Head Nets

Lightweight nylon mesh head nets are designed for unimpeded views. They have an elastic crown, securable on your head or favorite hat. 53JX20 features fine weave and adjustable underarm straps for maximum coverage. 53JX19 has a drop neckline and a draw cord for adjustability.

Description	Net Pore Size	Item No.
UltraNet	0.5 mm	**53JX20**
InvisiNet	1.0 mm	**53JX19**

53JX20

Insecticides

Provide fast and long lasting control of flying and crawling insects.

Form	Targeted Insects	Size	Size	Active Ingredients	Brand	Item No.	Pkg. Qty.
Crawling Insects							
Indoor/Outdoor							
Aerosol	Ants	16 oz	16 oz	Lambda Cyhalothrin	Hot Shot	**36WG41**	1
	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	16 oz	16 oz	Pyrethrin	Tough Guy	**2DCB3**	1
	Ants, Bed Bugs, Mites, Roaches	17.5 oz	17.5 oz	Permethrin, Piperonyl Butoxide, Pyrethrin	JT Eaton	**22CT52**	1
Bait Station, Powder	Ants	0.21 oz	0.21 oz	Fipronil	Combat	**1XGT8**	72
Liquid, Makes up to 2 gal.	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	1 oz	1 oz	Cypermethrin	Enforcer	**2HZB1**	1
Liquid Spray	Ants, Roaches, Spiders	128 oz	128 oz	Gamma Cyhalothrin	Spectracide	**36WG42**	1
	Bed Bugs, Fleas, Spiders, Ticks	128 oz	128 oz	Deltamethrin	JT Eaton	**5PTR8**	1
	Bed Bugs, Fleas, Ticks	128 oz	128 oz	Pyrethrin	JT Eaton	**5PTR4**	1
	Ants, Bed Bugs, Bees, Beetles, Fleas, Roaches, Spiders, Stink Bugs, Ticks	128 oz	128 oz	Deltamethrin	Enforcer	**2HZA9**	1
Powder	Ants, Roaches, Silverfish	5 lb	5 lb	Boric Acid	JT Eaton	**5PTT1**	1
	Ants, Roaches, Silverfish	16 oz	16 oz	Boric Acid	JT Eaton	**5PTT0**	1
Powder Bait Stations	Ants	0.21 oz	0.21 oz	Fipronil	Combat	**1XGT9**	72
	Roaches	0.28 oz	0.28 oz	Hydramethylon	Combat	**1XGT4**	96
	Roaches	0.49 oz	0.49 oz	Hydramethylon	Combat	**1XGT5**	96
Powder with Puffer	Ants, Bed Bugs, Crickets, Fleas, Roaches, Silverfish	7 oz	7 oz	Diatomaceous Earth	JT Eaton	**5PTR1**	1
Indoor Only							
Aerosol	Bed Bugs, Lice, Mites	14 oz	14 oz	N-Octyl Bicycloheptene Dicarboximide, Phenothrin, Resmethrin	Enforcer	**6WXE5**	1
	Ants	15 oz	15 oz	Lambda Cyhalothrin	Spectracide	**36WG38**	1
	Ants, Roaches	16 oz	16 oz	Cypermethrin, Tetramethrin	Enforcer	**38GM04**	12
	Ants, Roaches	17.5 oz	17.5 oz	Cypermethrin, Imiprothrin	Raid	**45CR50**	1
Fogger	Bed Bugs, Fleas	2 oz	2 oz	Piperonyl Butoxide, Pyrethrins	Hot Shot	**36WG26**	3
Gel	Ants, Roaches	2.5 oz	2.5 oz	Dinotefuran	Hot Shot	**36WG32**	1
Liquid	Ants, Bed Bugs, Carpet Beetles, Centipedes, Fleas, Millipedes, Roaches, Silverfish	6 oz	6 oz	Plant Oils	Bird Barrier	**45KA04**	1
	Bed Bugs	6 oz	6 oz	Plant Oils	Bird Barrier	**45KA05**	1
Liquid Bait Station	Roaches	0.45 oz	0.45 oz	Dinotefuran	Hot Shot	**36WG28**	6
Powder	Roaches	1 lb	1 lb	Orthoboric Acid	Hot Shot	**36WG39**	1
	Bed Bugs	8 oz	8 oz	Silicon Dioxide	Hot Shot	**36WG30**	1
Trap	Ants				Hot Shot	**36WG40**	4
Outdoor Only							
Aerosol	Ants	14 oz	14 oz	Phenothrin, Tetramethrin	CRC	**14N882**	1
Granular	Ants	3.5 lb	3.5 lb	Lambda Cyhalothrin	Spectracide	**48LR77**	1
	Ants	10 lb	10 lb	Lambda Cyhalothrin	Spectracide	**48LR80**	1
	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	35 lb	35 lb	Gamma Cyhalothrin	Spectracide	**36WG23**	1
Granular, Packet Treats	Ants	4 oz	4 oz	Bifenthrin	CRC	**14N883**	1
Liquid	Ants, Centipedes, Crickets, Roaches, Silverfish, Spiders	40 oz	40 oz	Gamma Cyhalothrin	Spectracide	**48LY77**	1
	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	128 oz	128 oz	Gamma Cyhalothrin	Spectracide	**36WG24**	1
Flying and Crawling Insects							
Indoor/Outdoor							
Aerosol	Ants, Bed Bugs, Beetles, Crickets, Fleas, Roaches, Silverfish, Spiders	15 oz	15 oz	d-Phenothrin, Prallethrin	Raid	**45CR52**	1
	Ants, Roaches, Spiders	16 oz	16 oz	Permethrin, Piperonyl Butoxide, Pyrethrin	Spectracide	**48LR76**	1
	Ants, Bed Bugs, Beetles, Centipedes, Fleas, Flies, Gnats, Mosquitoes, Moths, Silverfish, Spiders, Wasps	17 oz	17 oz	Permethrin, Piperonyl Butoxide, Pyrethrin	Enforcer	**53RJ85**	12
Indoor Only							
Aerosol	Ants, Bed Bugs, Beetles, Centipedes, Fleas, Flies, Gnats, Mosquitoes, Moths, Silverfish, Spiders, Wasps	2 oz	2 oz	Cypermethrin	Enforcer	**53RJ86**	12
Fogger	Ants, Centipedes, Crickets, Fleas, Mosquitoes, Roaches, Spiders, Ticks	1.2 oz	1.2 oz	Pyrethrin	Hot Shot	**36WG27**	3
Flying Insects							
Indoor/Outdoor							
20 ft. Long Range Aerosol	Bees, Wasps	12 oz	12 oz	Permethrin, Piperonyl Butoxide, Tetramethrin	ITW Dymon	**6XMH4**	1
	Bees, Hornets, Wasps, Yellow Jackets	12 oz	12 oz	Permethrin, Piperonyl Butoxide, Tetramethrin	Tough Guy	**2DCB5**	1
Aerosol	Bees, Flies, Gnats, Mosquitoes, Moths, Wasps	15 oz	15 oz	Permethrin	Hot Shot	**48LR73**	1
	Flies, Gnats, Mosquitoes, Moths	16 oz	16 oz	Tetramethrin	Enforcer	**53RJ88**	12
Dry Fog	Bees, Flies, Gnats, Mosquitoes, Moths, Wasps	14 oz	14 oz	Piperonyl Butoxide, Pyrethrins	ITW Dymon	**6XMH6**	1
Indoor Only							
Aerosol	Flies, Gnats, Mosquitoes	16 oz	16 oz	N-Octyl bicycloheptene dicarboximide, Piperonyl Butoxide, Prallethrin	Enforcer	**38GM02**	12
Outdoor Only							
20 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz	14 oz	Phenothrin, Tetramethrin	CRC	**4JB47**	1
	Wasps, Yellow Jackets	18 oz	18 oz	Permethrin, Piperonyl Butoxide, Tetramethrin	Spectracide	**48LR83**	1
22 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz	14 oz	Cypermethrin, Prallethrin	Raid	**4HK60**	1
27 ft. Long Range Aerosol	Wasps, Yellow Jackets	14 oz	14 oz	Lambda Cyhalothrin, Prallethrin	Hot Shot	**36WG20**	1
	Wasps, Yellow Jackets	20 oz	20 oz	Permethrin, Piperonyl Butoxide, Tetramethrin	Spectracide	**36WG19**	1
Aerosol	Wasps, Yellow Jackets	16 oz	16 oz	Permethrin, Piperonyl Butoxide, Tetramethrin	Enforcer	**38GM03**	12
	Wasps, Yellow Jackets	16 oz	16 oz	Tetramethrin	Enforcer	**53RJ82**	12
Mosquito Larvicide							
Outdoor Only							
Tablets	Mosquitoes	0.6 oz	0.6 oz	Spinosad	Natular	**54FY57**	12

2HZA9

5PTR1

36WG32

14N883

2DCB5

6XMH6

4JB47

4HK60

36WG20

No 36WG19

54FY57

Choose the Right Ladder for the Job

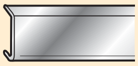
STEP 1: WHAT MATERIAL DO YOU NEED?

Fiberglass or Aluminum?

Fiberglass

Rugged and durable, ideal when working around electricity. Feature nonconductive side rails.

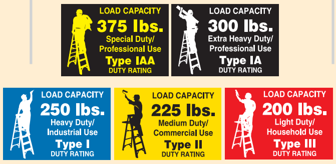
Aluminum



Lightweight and easy to carry. Not for use around electricity.

STEP 2: CHOOSE LOAD CAPACITY/DUTY RATINGS

Load capacity is the combined weight of user and materials.



STEP 3: CHOOSE THE SIZE/HEIGHT

STEPLADDERS

Max. Ht. of Desired Reach (ft.)*	Choose This Size (ft.)
7	3
8	4
9	5
10	6
11	7
12	8
14	10
16	12
18	14
20	16

* Assumes a 5-ft. 6" person with a vertical 12" reach.

EXTENSION LADDERS

Height to Top Support Point (ft.)	Choose This Size (ft.) †
9 Maximum	16
9 to 13	20
13 to 17	24
17 to 21	28
21 to 25	32
25 to 28	36
28 to 31	40

† Reflects section overlap, ladder angle and 3-ft. extension above roof line.

L7300 SERIES

- Safely lean against wall
- Rail latch holds rear rail to front rail in leaning mode

Fiberglass, Type 1AA, 375-lb. Duty Rating

6300 SERIES

- Red side rails
- Molded versatile LockTop securely holds drills and tools
- Top accommodates Lock-In accessories
- Molded large boots with EDGE Bracing
- Steel Internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating

7300 SERIES

- Molded external rail shields and EDGE Bracing
- Aluminum Tool-Tra-Top securely holds tools
- Extra-large knee braces—front and back
- Extra-wide base width
- Steel internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating

7400 SERIES

- Aluminum external rail shields and EDGE Bracing
- Aluminum Tool-Tra-Top securely holds tools
- Extra-large knee braces—front and back
- Extra-wide base width—widest ladder in industry
- Larger spread than 7300 Series
- Aluminum internal spreader bars

Fiberglass, Type 1AA, 375-lb. Duty Rating

400 SERIES

- Aluminum Tool-Tra-Top
- Fully knee braced—front and back
- Slip-resistant foot pads
- Internal spreader bars except on 4-ft. and 6-ft. sizes

Aluminum, Type 1AA, 375-lb. Duty Rating

6100 SERIES

- Molded Proguard Boot provide firm slip-resistant footing
- Versatile HolsterTop securely hold drills and tools
- Top accommodates Lock-In accessories
- Metal bottom step knee braces
- Internal spreader bars

Fiberglass, Type 1A, 300-lb. Duty Rating

6200 SERIES

- Orange side rails
- Molded versatile LockTop securely hold drills and tools
- Top accommodates Lock-In accessories
- Molded large boots with EDGE Bracing
- Steel internal spreader bars

Fiberglass, Type 1A, 300-lb. Duty Rating

370 SERIES

- Molded Tool-Tra-Top securely holds tools
- Internal "H" spreader on 4-ft., 5-ft., and 6-ft. sizes
- Auto-closing molded pail shelf
- Aluminum foot bracket with slip-resistant pad

Aluminum, Type 1A, 300-lb. Duty Rating

6000 SERIES

- Molded HolsterTop
- Top accommodates Lock-In accessories
- EDGE bracing at bottom
- External spreader bars

Fiberglass, Type 1, 250-lb. Duty Rating

360 SERIES

- Molded Tool-Tra-Top
- Auto-closing molded pail shelf
- External spreaders
- Slip-resistant foot pads
- Ideal for painting

Aluminum, Type 1, 250-lb. Duty Rating

5900 SERIES

- Molded HolsterTop
- Top accommodates Lock-In accessories
- EDGE bracing at bottom
- External spreader bars
- Ideal for light-duty or homeowner use

Fiberglass, Type II, 225-lb. Duty Rating

WERNER Stepladders

- The most popular ladder style used for low and medium heights

Series	Ladder Height	Material	Item No.
Type IAA, 375 lb Duty Rating			
L7300	4 ft	Fiberglass	458R92
	6 ft	Fiberglass	458R93
	8 ft	Fiberglass	458R94
	10 ft	Fiberglass	458R95
	12 ft	Fiberglass	458R96
6300	4 ft	Fiberglass	29JV18
	5 ft	Fiberglass	29JV20
	6 ft	Fiberglass	29JV21
	8 ft	Fiberglass	29JV23
	10 ft	Fiberglass	29JV25
	12 ft	Fiberglass	29JV27
7300	3 ft	Fiberglass	41D244
	4 ft	Fiberglass	6JJ81
	5 ft	Fiberglass	3AZX3
	6 ft	Fiberglass	6JJ82
	8 ft	Fiberglass	6JJ83
	10 ft	Fiberglass	6JJ84
	12 ft	Fiberglass	6JJ85
7400	3 ft	Fiberglass	41D241
	4 ft	Fiberglass	4XN71
	5 ft	Fiberglass	3AZX4
	6 ft	Fiberglass	4XN72
	7 ft	Fiberglass	3AZX5
	8 ft	Fiberglass	4XN73
	10 ft	Fiberglass	4XN74
	12 ft	Fiberglass	4XN75
400	4 ft	Aluminum	4XN58
	6 ft	Aluminum	4XN59
	8 ft	Aluminum	4XN60
	10 ft	Aluminum	4XN61
	12 ft	Aluminum	4XN63
Type IA, 300 lb Duty Rating			
6100	4 ft	Fiberglass	29JV19
	6 ft	Fiberglass	29JV22
	8 ft	Fiberglass	29JV24
	10 ft	Fiberglass	29JV26
	12 ft	Fiberglass	29JV28
6200	3 ft	Fiberglass	41D245
	4 ft	Fiberglass	3W421
	5 ft	Fiberglass	3AZX1
	6 ft	Fiberglass	3W141
	7 ft	Fiberglass	3AZX2
	8 ft	Fiberglass	3W142
	10 ft	Fiberglass	3W183
	12 ft	Fiberglass	3W422
370	3 ft	Aluminum	2EJG8
	4 ft	Aluminum	4W074
	5 ft	Aluminum	3AZX9
	6 ft	Aluminum	3W423
	8 ft	Aluminum	3W424
	10 ft	Aluminum	4W172
400	14 ft	Aluminum	4XN64
	16 ft	Aluminum	4XN67
Type I, 250 lb Duty Rating			
6000	4 ft	Fiberglass	4W077
	5 ft	Fiberglass	3AZW9
	6 ft	Fiberglass	4W078
	8 ft	Fiberglass	4W079
360	4 ft	Aluminum	41D304
	5 ft	Aluminum	41D305
	6 ft	Aluminum	41D306
	8 ft	Aluminum	4GNK8
Type II, 225 lb Duty Rating			
5900	4 ft	Fiberglass	41D251
	6 ft	Fiberglass	41D252
	8 ft	Fiberglass	41D253

Find more information on Ladder selection on page 1024.

Stepladders

WESTWARD®

Fiberglass ladders feature slip-resistant shoes, heavy-duty spreader braces, heavy-duty reinforcements, slip-resistant tread in every step, wide back braces, and molded top with handyman's tool slots.

Ladder Height	Item No.
Type IAA, 375 lb Duty Rating	
4 ft	**44YY52**
6 ft	**44YY48**
8 ft	**44YY47**
10 ft	**44YY37**
12 ft	**44YY50**
Type IA, 300 lb Duty Rating	
4 ft	**44YY63**
6 ft	**44YY19**
8 ft	**44YY29**
10 ft	**44YY61**
12 ft	**44YY30**

44YY19

Platform Stepladders

Little Giant Ladder Systems

Nonconductive **fiberglass** construction makes them suitable for working around electricity. Lightweight **aluminum** stepladders are easy to transport and reposition, making them great for a wide variety of tasks.

Platform Height	Ladder Height	Material	Item No.
Type IAA, 375 lb Duty Rating			
1 ft 11 in	4 ft	Fiberglass	**31XW64**
2 ft 10 in	5 ft	Fiberglass	**31XW65**
Type IA, 300 lb Duty Rating			
1 ft 10 in	4 ft	Aluminum	**40P130**
2 ft 9 in	5 ft	Aluminum	**6FJL9**
3 ft 8 in	6 ft	Aluminum	**6FJN0**

6FJN0

Platform Ladders

WERNER®

- Ideal for working in concentrated spaces and at fixed heights
- Large platform provides secure and comfortable work area
- Safety guard rail encourages proper use and is positioned 2 ft. above platform

Series	Platform Height	Ladder Height	Material	Item No.
Type IAA, 375-lb. Duty Rating				
	4 ft	6 ft		**6W679**
P7400	6 ft	8 ft	Fiberglass	**3W186**
	8 ft	10 ft		**6W680**
	4 ft	6 ft		**6W686**
P400	8 ft	6 ft	Aluminum	**6W687**
	8 ft	10 ft		**6W688**
Type IA, 300-lb. Duty Rating				
P7400	10 ft	12 ft		**4XP29**
	12 ft	14 ft		**41D243**
	2 ft	4 ft		**41D247**
	4 ft	6 ft	Fiberglass	**4EB96**
P6200	6 ft	8 ft		**4EB97**
	8 ft	10 ft		**4EB98**
	10 ft	12 ft		**3AZY5**
	2 ft	4 ft		**41D295**
	3 ft	5 ft		**41D296**
P370	4 ft	6 ft		**41D297**
	6 ft	8 ft	Aluminum	**41D298**
	8 ft	10 ft		**41D299**
	10 ft	12 ft		**41D292**
P400	12 ft	14 ft		**41D293**
	14 ft	16 ft		**41D294**

P7400 SERIES
- Available up to 12-ft. platform height
- 10-ft. and 12-ft. heights are Type IA, 300-lb. Duty Rating
- Fully knee braced steps and rear horizontals
- Aluminum external rail shields and EDGE Bracing

Fiberglass, Ladder Type 1AA, 375-lb. Duty Rating

P6200 SERIES
- Available up to 10-ft. platform height
- Fully knee braced steps
- EDGE bracing at bottom
- Molded large boots at bottom

Fiberglass, Type 1A, 300-lb. Duty Rating

P370 SERIES
- Available up to 8-ft. platform height
- Double knee braced bottom 3 steps
- Metal bottom step braces
- Slip-resistant foot pads

Aluminum, Type 1A, 300-lb. Duty Rating

P400 SERIES
- Available up to 14-ft. platform height
- 10-ft., 12-ft. and 14-ft. heights are Type IA, 300-lb. Duty Rating
- Fully knee braced steps
- Slip-resistant foot pad

Aluminum, Type 1AA, 375-lb. Duty Rating

P7400 Series

P6200 Series

P370 Series

P400 Series

Twin Platform Ladders

WERNER®

- Ideal for two-person jobs, working in concentrated spaces, and at fixed heights
- Duty Rating applies to each side
- Safety guard rail encourages proper use
- Twin platform ladders overall height is 2 ft. higher than the platform

Series	Platform Height	Ladder Height	Material	Item No.
Type IAA, 300-lb. Duty Rating				
	4 ft	6 ft		**34E337**
PT7400	6 ft	8 ft		**34E338**
	8 ft	10 ft		**34E339**
	10 ft	12 ft		**34E340**
	4 ft	6 ft	Fiberglass	**3AZY6**
PT7400-4C	6 ft	8 ft		**4XP39**
	8 ft	10 ft		**4XP40**
	10 ft	12 ft		**4XP41**
Type IA, 300-lb. Duty Rating				
	4 ft	6 ft		**3AZY7**
PT370	6 ft	8 ft	Aluminum	**3AZY8**
	8 ft	10 ft		**3AZY9**
	10 ft	12 ft		**41D302**

PT7400 SERIES
- Double riveted steps with knee braces on each
- Large platform provides secure work area
- Large aluminum external rail shield
- Available up to 10-ft. platform height
- 12" closed storage width

Fiberglass, Type 1AA, 375-lb. Duty Rating

PT7400-4C SERIES
- 4 spring-mounted rubber swivel casters
- Double riveted steps with knee braces on each
- Large platform provides secure work area
- Large aluminum external rail shields
- Available up to 10-ft. platform height
- 12" closed storage width

Fiberglass, Ladder Type 1AA, 375-lb. Duty Rating

PT370 SERIES
- Double riveted steps
- Large platform provides secure work area
- Available up to 10-ft. platform height
- 10" closed storage width

Aluminum, Type 1A, 300-lb. Duty Rating

PT7400 Series

PT7400-4C Series

PT370 Series

Scan. Order. Done.
Details on page A1.

20KJ26

45ED70

WERNER

Podium Ladders

- Ideal for working at fixed heights
- Comfortable secure feel with 4X Work Zone to reach in all directions
- Large podium platform with toe guard
- Waist high guard rail with Lock-In accessories slots
- EDGE360 bracing with molded large boots
- Overall ladder height is 3 ft. above platform
- Available with and without casters

Series	Platform Height	Ladder Height	Material	WITHOUT CASTERS Item No.	WITH CASTERS Item No.
Type IAA, 375 lb Duty Rating					
PD7300	3 ft	6 ft	Fiberglass	**36FX50**	**45ED69**
	4 ft	7 ft		**36FX51**	**45ED70**
	6 ft	9 ft		**36FX52**	**45ED71**
	8 ft	11 ft		**36FX53**	**45ED72**
Type IA, 300 lb Duty Rating					
PD6200	3 ft	6 ft	Fiberglass	**20KJ26**	**45ED64**
	4 ft	7 ft		**20KJ27**	**45ED65**
	6 ft	9 ft		**20KJ28**	**45ED66**
	8 ft	11 ft		**20KJ29**	**45ED67**
	9½ ft	13 ft		**20KJ30**	—
	10 ft			—	**45ED68**

T7400 Series

T400 Series

T6200 Series

T370 Series

T6000 Series

Twin Ladders

WERNER

- Designed for one- or two-person jobs
- Duty Rating applies to each side

T7400 SERIES

- Aluminum extruded top
- EDGE bracing with aluminum external rail shields
- Aluminum internal spreader bars
- Extra-large knee braces on every step
- 14-ft. to 20-ft. heights are Type 1A, 300 lb.

Fiberglass, Type 1AA, 375-lb. Duty Rating

T400 SERIES

- Aluminum extruded top
- Aluminum internal spreader bars
- Extra-large knee braces on every step
- Metal bottom step braces

Aluminum, Type 1AA, 375-lb. Duty Rating

T6200 SERIES

- Molded LockTop® top securely holds tools
- EDGE360™ Bracing with molded large boots
- Steel internal spreader bars
- Fully knee braced on every step

Fiberglass, Type 1A, 300-lb. Duty Rating

T370 SERIES

- Aluminum extruded top
- Steel internal spreader bars
- Metal bottom step braces
- Slip-resistant foot pads

Aluminum, Type 1A, 300-lb. Duty Rating

T6000 SERIES

- Molded HolsterTop® securely hold drills and tools
- EDGE bracing at bottom
- Steel external spreader bars

Fiberglass, Type 1, 250-lb. Duty Rating

Series	Ladder Height	Material	Item No.
Type IAA, 375 lb Duty Rating			
T7400	4 ft	Fiberglass	**4XP48**
	5 ft		**41D242**
	6 ft		**4XP49**
	8 ft		**4XP50**
	10 ft		**4XP51**
	12 ft		**4XP52**
T400	4 ft	Aluminum	**41D287**
	6 ft		**41D288**
	8 ft		**41D289**
	10 ft		**41D290**
	12 ft		**41D291**

Series	Ladder Height	Material	Item No.
Type IA, 300 lb Duty Rating			
T7400	14 ft	Fiberglass	**4XP53**
	16 ft		**4XP54**
	20 ft		**4XP55**
T6200	3 ft		**41D246**
	4 ft		**6YG79**
	5 ft		**3AZX6**
	6 ft		**6YG80**
	8 ft		**6YG81**
	10 ft		**3AZX7**
	12 ft		**3AZX8**
T370	4 ft	Aluminum	**3AZY1**
	6 ft		**3AZY2**
	8 ft		**3AZY3**
	10 ft		**3AZY4**
Type I, 250 lb Duty Rating			
T6000	4 ft	Fiberglass	**9NV38**
	6 ft		**8CKH1**
	8 ft		**9GA67**

44YY09

WESTWARD

Fiberglass Twin Stepladders

The load capacity applies to each side of the ladder and is built for use by two people (one per side) simultaneously. Comes equipped with heavy-duty boots.

Ladder Height	Item No.
Type IAA, 375 lb Duty Rating	
4 ft	**44YY09**
6 ft	**44YY68**
8 ft	**44YY16**
10 ft	**44YY42**
12 ft	**44YY24**

XTEND+CLIMB

Aluminum Telescoping Ladders

Extends from inches to feet to desired height. Ladders retract smoothly from a locking mechanism. Features integrated closure strap and carry handle for easy maneuverability. Has visual indicators for locking and releasing. Meet ANSI safety standards.

For additional Type II and Type IA ladders, go to Grainger.com® and search by Type II and IA Ladders.

Extended Ladder Height	Bottom Width	Item No.
Type 1A, 300 lb Duty Rating		
12 ft 6 in	19 in	**54YF85**
12 ft 6 in	19 ¾ in	**54YF87**
Type 1, 250 lb Duty Rating		
8 ft 6 in	18 in	**54YF82**
10 ft 6 in	18 in	**54YF83**
12 ft 6 in	19 in	**54YF84**
15 ft 6 in	19 ½ in	**54YF86**
15 ft 6 in	19 ¾ in	**54YF88**
16 ft 6 in	19 ¾ in	**54YF89**

54YF82

Multipurpose Ladders

Little Giant Ladder Systems / WERNER

Lightweight aluminum ladders can offer easy lifting and carrying. Nonconductive fiberglass ladders help protect personnel from electrical shock when working around electricity.

Extended Ladder Height	Stepladder Height	Scaffold Height	Brand	FIBERGLASS Item No.	FIBERGLASS Net Weight	ALUMINUM Item No.	ALUMINUM Net Weight
Type IAA, 375 lb Duty Rating							
Ladder Configurations: 90° , Extension, Scaffold, Staircase, Stepladder							
11 ft	3 to 5 ft	1 to 3 ft	Little Giant	**26W724**	35.0 lb	**1YME9**	38.0 lb
15 ft	4 to 7 ft	1 to 3 ft	Little Giant	—	—	**1YMG1**	46.0 lb
19 ft	5 to 9 ft	1 to 3 ft	Little Giant	—	—	**1YMG2**	47.0 lb
Ladder Configurations: 90° , Staircase, Stepladder							
10 ft	6 to 10 ft	—	Little Giant	**48WJ52**	53.0 lb	—	—
—	5 to 8 ft	—	Little Giant	**14D497**	34.0 lb	—	—
	6 to 10 ft	—	Little Giant	**26W731**	41.0 lb	—	—
Ladder Configurations: Extension, Stepladder							
6 ft 10 in	4 ft	—	Little Giant	**55HX89**	21.0 lb	—	—
12 ft	4 ft 9 in	—	Little Giant	**55HX88**	36.0 lb	—	—
	6 ft	—	Werner	**4XN76**	33.5 lb	—	—
	7 ft	—	Werner	**41D279**	37.0 lb	—	—
16 ft	8 ft	—	Werner	**4XN77**	40.5 lb	—	—
Ladder Configurations: Scaffold, Staircase, Stepladder, Straight							
15 ft	4 to 7 ft	3 ft	Little Giant	—	—	**423K41**	54.0 lb
Type IA, 300 lb Duty Rating							
Ladder Configurations: 90° , Extension, Scaffold, Staircase, Stepladder							
11 ft	3 to 5 ft	1 to 3 ft	Little Giant	—	—	**48RT20**	25.0 lb
	3 to 5 ft	1 to 3 ft	Little Giant	—	—	**14D449**	30.0 lb
15 ft	4 to 7 ft	1 to 3 ft	Little Giant	**26W725** **	44.0 lb	**48RT21**	32.0 lb
	4 to 7 ft	1 to 3 ft	Little Giant	**45ED93**	51.0 lb	**3EJT6** **	33.0 lb
	4 to 7 ft	1 to 3 ft	Little Giant	—	—	**36GL18**	38.5 lb
	4 to 7 ft	1 to 3 ft	Little Giant	—	—	**14D450**	40.0 lb
19 ft	4 to 7 ft	1 to 3 ft	Little Giant	**45ED98**	60.0 lb	—	—
	5 to 9 ft	1 to 3 ft	Little Giant	—	—	**48RT22**	39.0 lb
	5 to 9 ft	1 to 3 ft	Little Giant	—	—	**3EJT7** **	41.0 lb
	5 to 9 ft	1 to 3 ft	Little Giant	—	—	**14D451**	47.0 lb
	5 to 9 ft	1 to 3 ft	Little Giant	—	—	**36GL19**	47.0 lb
22 ft	5 to 9 ft	1 to 3 ft	Little Giant	**40P124** **	51.0 lb	—	—
23 ft	6 to 11 ft	1 to 3 ft	Little Giant	—	—	**48RT23**	50.0 lb
	6 to 11 ft	1 to 3 ft	Little Giant	—	—	**14D492**	56.0 lb
	6 to 11 ft	1 to 3 ft	Little Giant	—	—	**36GL20**	57.5 lb
26 ft	6 to 11 ft	1 to 3 ft	Little Giant	—	—	**26W732** **	52.0 lb
Ladder Configurations: Extension, Scaffold, Staircase, Stepladder							
11 ft	3 to 5 ft	2 ft	Werner	**494M33**	33.0 lb	**2NKW6**	31.5 lb
15 ft	4 to 7 ft	3 ft	Werner	**494M34**	40.0 lb	**2NKW7**	39.5 lb
19 ft	5 to 9 ft	3 ft 10 in	Werner	—	—	**2NKW8**	47.0 lb
	5 to 9 ft	4 ft	Werner	**494M35**	50.0 lb	—	—
23 ft	6 to 11 ft	4 ft 10 in	Werner	—	—	**2NKW9**	62.5 lb
Ladder Configurations: Scaffold, Staircase, Stepladder, Straight							
15 ft	4 to 7 ft	3 ft	Little Giant	—	—	**423K39**	46.0 lb
19 ft	5 to 9 ft	3 ft	Little Giant	—	—	**423K40**	46.5 lb

*** Can be used as a Scaffolding with the use of optional Trestle Brackets 31XW71 and 48WJ50 and optional Planks 20Z656, 4ZB12, and 4ZB13 (sold separately).*

48RT21

2NKW6

494M35

Obel Series

E7400 Series

FTP6200 Series

Specialty Ladders

OBEL SERIES

- Custom molded top designed for electrical contractors
- Integrated retractable conduit holder for cutting pipe
- Wire spool holders and a multiuse hook
- EDGE bracing at bottom
- Internal spreader bars

Fiberglass Electricians Job Station Stepladders, Type 1AA, 375-lb. Duty Rating

E7400 SERIES

- Convenient for versatile applications
- Ideal for two-person jobs and working at various heights
- Duty rating applies to each stepladder side
- Double riveted, fully knee braced steps
- Aluminum external rail shields and EDGE bracing

Fiberglass Extension Trestle Ladder, Type 1A, 300-lb. Duty Rating

FTP6200 SERIES

- Back rail fits through studs, tight areas, around corners and uneven surfaces
- Spreader handle designed for convenient setup and transport
- Fully based front section
- Extra-wide stance for stability
- Available up to 12 ft.

Fiberglass Tripod Ladder, Type 1A, 300-lb. Duty Rating

Series	Ladder Height	Material	Item No.
Type IAA, 375 lb Duty Rating			
OBEL00	4 ft	Fiberglass	1FCF1
	6 ft		1FCF2
	8 ft		1FCF3
	10 ft		1FCF4
	12 ft		1FCF5
Type IA, 300 lb Duty Rating			
E7400	8 ft	Fiberglass	4XP05
	10 ft		4XP06
	12 ft		4XP07
	14 ft		4XP08
	16 ft		4XP09
FTP6200	4 ft		4ZY19
	6 ft		4EB99
	8 ft		4ZY20
	10 ft		41D249
	12 ft		41D250

36GL23

Adjustable Enclosed Safety Cages

- Nonconductive, high-strength, fiberglass-resin composite
- Fully adjustable 1-ft. increments

Offer versatile, safe alternative to tie-off, allowing access to constricted areas and drop ceilings while complying with tie-off rules. Help protect operators in a fully enclosed working platform, allowing them to work safely and quickly with 2 hands. Each side adjusts independently to multiple heights; adjusts to work safely on uneven surface and stairs. Models with Wheel Lift™ casters allow cage to move from place to place fully deployed. Built-in Tip & Glide™ wheels make it quick-and-easy to roll anywhere.

Series	Platform Height	Includes	Item No.
Type IAA, 375 lb Duty Rating			
Compact Safety Cage	4 to 6 ft	Tip and Glide Wheels	48RR82
	6 to 10 ft	Net, Outriggers, Side Tip Wheels, Wheel Lift	48RR88
		Outriggers, Ratchet Levelers, Side Tip Wheels, Wheel Lift	48RR89
Adjustable Safety Cage	3 to 5 ft	Net, Wheel Lift	36GL22
	5 to 9 ft	Net, Outriggers, Wheel Lift	36GL23
	8 to 14 ft		36GL24

Aluminum Extension Planks 4XP31

4XN82

Ladder Jacks, Planks and Leveler

Aluminum Extension Planks - PA200 Series—Made of 2" deep box section extrusions for outstanding rigidity in ladder jack, trestle ladder, and step stool applications. Locking mechanism sets plank in 12" increments; positive stops prevent overextending.

WARNING: When assembled as a scaffold or staging, planks must be used in conjunction with suitable guardrail protection in compliance with applicable governmental codes, ordinances, regulations, and safe practices.

Ladder Jack Clamping System—Ladder jacks mount to either side of extension ladder and clamps securely hold stage platform to ladder jacks. OSHA and ANSI Standards require ladder jacks only be used on Type 1, Type 1A, or Type 1AA ladders.

- Accommodates up to 20"W stage planks

Description	Series	Overall Length	Load Capacity	Material	Item No.
Extension Plank	PA200	6 to 9 ft	250 lb	Aluminum	4XP30
Extension Plank	PA200	8 to 13 ft	250 lb	Aluminum	4XP31
Extension Plank	PA200	10 to 17 ft	250 lb	Aluminum	4XP32
Ladder Jack Clamping System	—	—	300 lb	—	4XN82
Ladder Leveler	—	—	—	Aluminum	4XP35

Find more information on Ladder selection on page 1024.

WERNER

Extension Ladders

- Aluminum extruded gravity spring locks
- D-shape rungs except 7100-2 series
- Fiberglass have prepierced holes at top of fly section for easy field installation of accessories

Exclusive ALFLO rung joint connections provide excellent, twist-proof performance. Dual-action feet with spur plate are great for use on hard or penetrable surfaces and molded end caps are mar resistant. Rope and pulley system not included on 16-ft. ladders.

Series	Ladder Size	Max. Working Height	Material	Item No.
Type IAA, 375 lb Duty Rating				
D7100-2	16 ft	13 ft	Fiberglass	**4XN97**
	20 ft	17 ft		**4XN98**
	24 ft	21 ft		**4XN99**
	28 ft	25 ft		**4XP01**
	32 ft	29 ft		**4XP02**
7100-2	16 ft	13 ft		**41D258**
	20 ft	17 ft		**41D259**
	24 ft	21 ft		**41D260**
	28 ft	25 ft		**41D261**
	32 ft	29 ft		**41D262**
D500-2	20 ft	17 ft	Aluminum	**41D317**
	24 ft	21 ft		**41D318**
	28 ft	25 ft		**41D319**
	32 ft	29 ft		**41D320**
Type IA, 300 lb Duty Rating				
D7100-2	36 ft	32 ft	Fiberglass	**41D257**
	40 ft	35 ft		**3W621**
D6200-2	16 ft	13 ft		**3W620**
	20 ft	17 ft		**3W184**
	24 ft	21 ft		**3W139**
	28 ft	25 ft		**3W140**
	32 ft	29 ft		**3W185**
	36 ft	32 ft		**41D271**
	40 ft	35 ft		**4XP10**
D6200-3	16 ft	13 ft		**22E977**
	20 ft	17 ft		**22E978**
	24 ft	21 ft		**22E979**
	28 ft	25 ft		**22E980**
	32 ft	29 ft		**22E981**
D1500-2	16 ft	13 ft	Aluminum	**4XN89**
	20 ft	17 ft		**4XN90**
	24 ft	21 ft		**4XN91**
	28 ft	25 ft		**4XN92**
	32 ft	29 ft		**4XN93**
	36 ft	32 ft		**4XN94**
	40 ft	35 ft		**4XN95**
D500-2	40 ft	35 ft		**41D321**
	48 ft	43 ft		**4XN96**
Type II, 225 lb Duty Rating				
D5900-2	16 ft	13 ft	Fiberglass	**41D276**
	20 ft	17 ft		**41D277**
	24 ft	21 ft		**41D278**
D1200-2	16 ft	13 ft	Aluminum	**4GNK9**
	20 ft	17 ft		**41D329**
	24 ft	21 ft		**4GNL1**
	28 ft	25 ft		**41D330**
D1200-3	16 ft	13 ft		**41D331**
	24 ft	21 ft		**41D332**
Type I, 250 lb Duty Rating				
D6000-2	16 ft	13 ft	Fiberglass	**41D272**
	20 ft	17 ft		**41D273**
	24 ft	21 ft		**41D274**
	28 ft	25 ft		**41D275**
D1300-2	16 ft	13 ft	Aluminum	**41D322**
	20 ft	17 ft		**41D323**
	24 ft	21 ft		**41D324**
	28 ft	25 ft		**41D325**
	32 ft	29 ft		**41D326**
	36 ft	32 ft		**41D327**
	40 ft	35 ft		**41D328**

D7100-2 SERIES
- Rung plate rung to rail connections
- Ideal for utility and telecommunication industries
- Base and fly separate
- Rail shield and shoe bracket protect rail from damage
- 36-ft. and 40-ft. are Type 1A 300 lb.

Fiberglass D-Rung, Type 1AA, 375-lb. Duty Rating

7100-2 SERIES
- Round shape rungs
- Ideal for utility and telecommunication industries
- Rung Plate rung to rail connections
- Base and fly separate
- Rail shield and shoe bracket protect rail from damage

Fiberglass, Round Rung, Type 1AA, 375-lb. Duty Rating

D500-2 SERIES
- Interlocking side rails
- Base and fly separate easily
- 1¾" D-rungs
- Base section width is 19⅛"
- 40-ft. and 48-ft. are Type IA 300 lb.

Aluminum, D-Rung, Type 1AA, 375-lb. Duty Rating

D6200-2 SERIES
- Direct rung to rail connections
- Base and fly separate
- Combination rail shield bracket and shoe with slip resistant pad
- Molded rung braces at bottom for increased durability

Fiberglass, D-Rung, Type 1A, 300-lb. Duty Rating

D6200-3 SERIES
- Three-section design allows the ladder to close shorter than 2 section ladders
- Easier to maneuver and transport
- Include carry handle
- Direct rung to rail connections

Fiberglass, Compact, Type 1A, 300-lb. Duty Rating

D1500-2 SERIES
- Stacked side rails so base and fly sections are same 18⅛"W
- Base and fly separate easily
- Dual-action feet with spur plate

Aluminum, D-Rung, Type 1A, 300-lb. Duty Rating

D5900-2 SERIES
- Direct rung to rail connections
- Curved shape side rails for user comfort
- Lighter carrying weight than heavier duty rated ladders

Fiberglass D-Rung, Type II, 225-lb. Duty Rating

D1200-2 SERIES
- Direct rung to rail connections
- Ideal for painting
- Lightweight

Aluminum, D-Rung, Type II, 225-lb. Duty Rating

D1200-3 SERIES
- 3-section, compact
- Interlocking side rails
- Mar-resistant molded end caps
- Slip-resistant shoe with SHU-LOK feature and spur plate
- Slip-resistant TRACTION-TRED D-rungs
- Spring-loaded locks

Aluminum, D-Rung, Type II, 225-lb. Duty Rating

D6000-2 SERIES
- Direct rung to rail connections
- Combination rail shield bracket and shoe with slip-resistant pad
- Molded rung braces at bottom for increased durability

Fiberglass, D-Rung, Type I, 250-lb. Duty Rating

D1300-2 SERIES
- Interlocking side rails
- 1¾" D-rungs
- Base section is 17⅜"W
- Ideal for painting

Aluminum, D-Rung, Type 1, 250-lb. Duty Rating

WESTWARD

Extension Ladders

Ladders are lightweight and adjustable in 12" increments. Feature aluminum swivel safety shoe.

Industry Ladder Size	Max. Working Height	Material	Item No.
Type IA, 300 lb Duty Rating			
16 ft	13 ft	Fiberglass	**44YY67**
20 ft	17 ft	Fiberglass	**44YY15**
24 ft	21 ft	Fiberglass	**44YY60**
28 ft	25 ft	Fiberglass	**44YY49**
32 ft	29 ft	Fiberglass	**44YY21**
40 ft	35 ft	Fiberglass	**44YY40**

44YY67

7800 SERIES
- Converts to a step or extension ladder
- Padded V-rung at top in extension position
- Fixed aluminum locks secure rungs in extension ladder position
- Large hoop feet

Fiberglass, Combination Ladder, Type IAA, 375-lb. Duty Rating

D7100-2LV SERIES
- Rung plate rung to rail connections
- Base and fly separate easily
- Factory installed, foot action Level Lok extends up to 10" in 3⁄16" increments
- Prepierced holes at top of fly section for easy field installation of accessories
- 36-ft. and 40-ft. models are Type 1A, 300 lb.

Fiberglass, D-Rung Extension Ladder, Type IAA, 375-lb. Duty Rating

D8200-2EQ SERIES
- Factory installed EverLevel leveling system: adjusts up to 8¼" in ⅜" increments
- Direct rung to rail connections
- Dual-action feet with spur plate

Fiberglass, D-Rung Extension Ladder, Type IA, 300-lb. Duty Rating

560-3 SERIES
- Removable top fly section
- Heavy-duty rope and double pulley system
- Dual-action feet with spur plate
- Maximum working length is 47 ft.

Aluminum, Round Rung Extension Ladder, Type I, 250-lb. Duty Rating

D1800-2EQ SERIES
- Factory installed EverLevel leveling system: adjusts up to 8¼" in ⅜" increments
- Direct rung to rail connections
- Built-in bubble leveler at bottom rung
- Dual-action feet with spur plate

Aluminum, D-Rung Extension Ladder, Type I, 250-lb. Duty Rating

500-1 SERIES
- Dual-action feet with spur plate
- Hoop end caps
- 8-ft. to 12-ft. ladders are 16⅞"W
- 24-ft. ladder is 20⅝"W
- 18-ft., 20-ft. and 24-ft. models are Type IA, 300 lb.

Aluminum, Round Rung Straight Ladder, Type IAA, 375-lb. Duty Rating

7100-1 SERIES
- Rung plate rung to rail connections
- Rail shield and shoe bracket protect rail
- Dual-action feet with spur plate for use on hard or penetrable surfaces

Fiberglass, Round Rung Straight Ladder, Type IAA, 375-lb. Duty Rating

M7100-1 SERIES
- Round shaped rungs
- 3-ft. replaceable plastic sleeves to avoid rim damage to rail
- Ladder is 12⅜"W
- Wide hoop feet with rubber pads at bottom

Fiberglass, Manhole Ladder, Type IAA, 375-lb. Duty Rating

D1500-1 SERIES
- Dual-action feet with spur plate for use on hard or penetrable surfaces
- Mar-resistant end caps
- Ladder is 18⅛"W

Aluminum, D-Rung Straight Ladder, Type 1A, 300-lb. Duty Rating

D6200-1 SERIES
- Dual-action feet with spur plate for use on hard or penetrable surfaces
- Molded rung braces at bottom for increased durability
- Ladder is 19"W

Fiberglass, D-Rung Straight Ladders, Type IA, 300-lb. Duty Rating

S7700 SERIES
- Ideal for manhole use
- Maximum number of 3-sections can be used, each section 6-ft. high
- Lock sections with cam driven tension clamps
- Ladder width 12"
- Requires Shoe 41D286 and End Cap 41D285, available separately

Fiberglass, Parallel Sectional Ladder, Type I, 250-lb. Duty Rating

WERNER

Specialty Extension and Straight Ladders
- Exclusive ALFLO rung joint connections for twist-proof performance except 9500 Series
- Slip-resistant Traction-Tred rungs
- Mar-resistant end caps

Series	Industry Ladder Size	Extended Ladder Height	Material	Item No.
Step/Extension				
Type IAA, 375 lb Duty Rating				
7800	—	12 ft	Fiberglass	4XN76
	—	12 ft		41D279
	—	16 ft		4XN77
Extension				
Type IAA, 375 lb Duty Rating				
D7100-2LV	20 ft	17 ft	Fiberglass	3AZT2
	24 ft	21 ft		3AZT3
	28 ft	25 ft		3AZT4
	32 ft	29 ft		41D254
Type IA, 300 lb Duty Rating				
D8200-2EQ	20 ft	17 ft	Fiberglass	41D268
	24 ft	21 ft		41D269
	28 ft	25 ft		41D270
Type I, 250 lb Duty Rating				
560-3	60 ft	47 ft	Aluminum	4XN68
D1800-2EQ	16 ft	13 ft		1FCF6
	20 ft	17 ft		1FCF7
	24 ft	21 ft		1FCF8
	28 ft	25 ft		1FCF9

Series	Ladder Height	Top Step Height	Material	Item No.
Straight				
Type IAA, 375 lb Duty Rating				
500-1	10 ft	10 ft	Aluminum	41D309
	12 ft	12 ft		41D310
	14 ft	14 ft		41D311
	16 ft	16 ft		41D312
7100-1	8 ft	8 ft	Fiberglass	41D263
	10 ft	10 ft		41D264
	12 ft	12 ft		41D265
	14 ft	14 ft		41D266
	16 ft	16 ft		41D267
M7100-1	8 ft	4 ft		3AZV4
	10 ft	6 ft		3AZV5
	12 ft	8 ft		3AZV6
	14 ft	10 ft		3AZV7
	16 ft	12 ft		3AZV8
Type IA, 300 lb Duty Rating				
500-1	20 ft	20 ft	Aluminum	41D314
	24 ft	24 ft		41D315
D1500-1	8 ft	4 ft		3AZU7
	10 ft	6 ft		3AZU8
	12 ft	8 ft		3AZU9
	14 ft	10 ft		3AZV1
	16 ft	12 ft		3AZV2
	18 ft	14 ft		3AZV3
	20 ft	20 ft		41D316
D6200-1	8 ft	4 ft	Fiberglass	2EJG2
	10 ft	6 ft		2EJG3
	12 ft	8 ft		2EJG4
	14 ft	10 ft		2EJG5
	16 ft	12 ft		2EJG6
	20 ft	16 ft		2EJG7
Sectional				
Type I, 250 lb Duty Rating				
S7700	6 ft	6 ft	Fiberglass	41D284

Find more information on choosing the right ladder on page 1024.

Utility Step Stools

XTEND + CLIMB
Lighter weight. Fold to 4½"W.

WESTWARD
Fold for easy transport and storage.

LOUISVILLE
Tilt and roll feature. Fold to 5"W.

12M626 AND 12M627
Nonslip ribbed treads. Fold to 5"W.

No. of Steps	Top Step Height	Material	Brand	Item No.
Type IAA, 375 lb Duty Rating				
2	18 in	Aluminum	Xtend + Climb	2KFG4
3	27 in		Xtend + Climb	2KFG5
4	35 in		Xtend + Climb	2KFG6
5	43 in		Xtend + Climb	2KFG7
Type IA, 300 lb Duty Rating				
2	17 in	Aluminum	Westward	44YY25
2	17 in		Louisville	401M53
4	35 in		Westward	44YY14
4	35 in		Louisville	401M55
2	18 in	Steel	—	12M626
3	27 in		—	12M627
Type II, 225 lb Duty Rating				
2	16 ½ in	Aluminum	Xtend + Climb	4HXA4
3	32 in		Xtend + Climb	4HXA5
4	43 in		Xtend + Climb	4HXA6

2KFG7

44YY25

4HXA4

Step Stands and Work Stands

Step Stands—Extra-wide feet keep stools stable on uneven surfaces. 6"D steps and side rail.

Work Stands—Allow 1 or 2 people to climb up either side. 30"W step.

No. of Steps	Overall Height	Brand	FIBERGLASS Item No.	ALUMINUM Item No.
Step Stands				
Type IAA, 375 lb Duty Rating				
2	24 in	Werner	3LW39 *	5W216 *
2	24 in	Louisville	415J19	415J15
3	36 in	Werner	3LW40 *	6W705 *
3	36 in	Louisville	415J20	415J17
Type IA, 300 lb Duty Rating				
2	24 in	Werner	3AZU6	4XN38
2	24 in	Louisville	1CMV5	1CMV4
2	24 in	Werner	4XP47	—
3	24 in	Werner	—	4XP46
Type I, 250 lb Duty Rating				
2	24 in	Werner	4XN69	—
Type II, 225 lb Duty Rating				
1	11 ½ in	Xtend + Climb	—	12M634
Work Stands				
Type IA, 300 lb Duty Rating				
2	24 in	Werner	3AZU4	3AZU1
2	25 ¼ in	Louisville	—	36Y489
3	36 in	Werner	3AZU5	3AZU2
3	37 ¼ in	Louisville	—	36Y490
4	48 in	Werner	—	3AZU3
4	49 ¼ in	Louisville	—	36Y491

** Once locking mechanism is engaged, it stays open permanently.*

3LW39

415J15

1CMV5

3AZU4

38R202
48WH89

38R232

49FD27

38R218

38R221

General Aerial Work Platforms

AWP Series—These platforms feature user-friendly controls with auxiliary platform lowering. Designed with durable, exclusive Genie mast system and rocker base system for easy maneuvering around and over obstacles. Small outrigger allows for positioning close to walls. Use with Super Straddle accessory 38R201 to work over fixed seating.

Boom Lift Series—Provide the ultimate versatility in positioning capabilities, giving a wide range of motion allowing above and below rotation for precise positioning. Works in tight spaces, as well as those difficult to reach, and hard-to-access work areas. Offer quiet emission-free operation in most sensitive work environments.

IWP Series—Industrial work platforms have a rigid aluminum mast designed for strength, reliability, and low maintenance. No outriggers are needed due to automatic level sensing with integrated leveling jacks. Designed with auxiliary platform-lowering feature on both platform and ground controls.

GR and GRC Series—GR Runabout Series are compact, low-weight self-propelled machines. Feature zero inside turning radius, 30% gradeability, and proportional lift and drive controls. GRC Runabout Contractor Series feature tube-in-tube telescoping steel mast and steel platform. Lifts will drive when fully elevated, providing access to all major components for convenient servicing.

Aerial Work Platform Course 45JJ77—Genie Lift Pro online operator training is a high-quality, professional-grade program that is delivered through a web-based platform and is designed to satisfy the general training requirements for aerial work platforms as defined by ANSI, OSHA, and CSA.

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	AC POWER Item No.	DC POWER Item No.
AWP Series Lifts						
20 ft	26 ft 1 in	350 lb	49 in	29 in	**38R202**	**38R203**
24 ft 11 in	30 ft 11 in	350 lb	51 ½ in	29 in	**38R204**	**38R205**
29 ft 6 in	36 ft 5 in	350 lb	53 in	29 in	**38R206**	**38R207**
36 ft 5 in	42 ft 5 in	350 lb	55 in	29 in	**38R208**	**38R209**
40 ft 4 in	46 ft 4 in	300 lb	56 in	29 in	**38R210**	**38R211**
Boom Lift Series						
29 ft 2 in	36 ft	500 lb	144 in	47 in	—	**48WH86** *
30 ft	36 ft	500 lb	138 in	47 in	—	**48WH85**
32 ft 10 in	39 ft	500 lb	164 in	59 in	—	**48WH87**
34 ft 6 in	40 ft	500 lb	165 in	58 in	—	**48WH88**
40 ft 5 in	46 ft	500 lb	257 in	59 in	—	**48WH89**
40 ft 5 in	46 ft	500 lb	257 in	59 in	—	**48WH90** *
IWP Series Lifts						
20 ft 3 in	26 ft 3 in	350 lb	60 in	32 in	**38R232**	**38R233**
24 ft 11 in	30 ft 11 in	350 lb	60 in	32 in	**38R235**	**38R236**
29 ft 6 in	35 ft 6 in	350 lb	60 in	40 in	**38R238**	**38R239**

***** *Includes rotating jib.*

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	AC POWER Item No.	DC POWER Item No.
IWP Series Lifts w/ Power Assist						
20 ft 3 in	26 ft 3 in	350 lb	60 in	32 in	—	**38R234**
24 ft 11 in	30 ft 11 in	350 lb	60 in	32 in	—	**38R237**
29 ft 6 in	35 ft 6 in	350 lb	60 in	40 in	—	**38R240**
GR Series Lifts						
11 ft 4 in	17 ft 5 in	500 lb	53 in	29 ½ in	—	**38R218**
14 ft 8 in	20 ft 8 in	500 lb	53 in	29 ½ in	—	**38R219**
19 ft 9 in	25 ft 11 in	350 lb	53 in	31 ½ in	—	**38R220**
19 ft 9 in	25 ft 11 in	350 lb	53 in	32 in	—	**49FD27**
GRC Series Lifts						
12 ft	18 ft	500 lb	54 in	29 ½ in	—	**38R221**
Accessories						
Aerial Work Platform Super Straddle						**38R201**
Aerial Work Platform Course						**45JJ77**

38R229

Slab Scissor Lifts

- Meet ANSI A92.3, CSA B354.1, EN 280, AS1418.10

Environmentally friendly electric lifts release no emissions and onboard diagnostics make troubleshooting easy. Ideal for maneuvering in tight spaces around indoor and outdoor construction with solid, nonmarking tires. Also used for maintenance and installation applications on firm, level surfaces. All lifts feature a 36" roll-out platform extension, proportional controls for drive functions, multiple disc brakes, emergency stop at platform and ground controls, and AC power to platform.

Max. Platform Height	Max. Drive Height	Work Height	Load Capacity	Overall Length	Overall Width	Max. Speed Lowered	Max. Speed Elevated	Item No.
19 ft	19 ft	25 ft	500 lb	72 in	30 in	2½ mph	½ mph	**38R229**
20 ft	20 ft	26 ft	800 lb	96 in	32 in	2.2 mph	½ mph	**38R230**
20 ft 1 in	26 ft	26 ft	1,200 lb	8 ft	46 in	2.0 mph	½ mph	**61DJ75**
26 ft	26 ft	32 ft	500 lb	96 in	32 in	2.2 mph	½ mph	**38R224**
26 ft 1 in	32 5/64 ft	32 2/25 ft	1,000 lb	8 ft	46 in	2.0 mph	½ mph	**61DJ76**
32 ft 1 in	22 ft	37 67/100 ft	500 lb	8 ft	32 in	2.0 mph	½ mph	**61DJ77**
32 ft 1 in	38 ft	38 ft	700 lb	8 ft	46 in	2.0 mph	½ mph	**61DJ78**

Personnel and Merchandise Lifts

PERSONNEL LIFTS

Ballylifts

Totally enclosed platform has built-in ladder with flat, skid-resistant treads and grab rails provides access to platform in fully lowered position while antiskid rungs provide access to platform when lift is raised. Features leveling jacks that secure lift to floors and uneven surfaces. 8ADE3 is a cantilevered platform with aluminum deck. 8WZ64 has a standard platform.

MR Lifts

Roomy 28" x 36" enclosed platform accommodates 2 workers and has built-in ladder with flat, skid-resistant treads and grab rails. Features leveling jacks help secure lift to floor and also compensates for uneven surfaces. Self-storing outriggers extend from base to provide stability. Rails fold for doorway passages and storage.

Drivable and Pushable Vertical Mast Lifts

These lifts hold 1 person and are ideal for work on overhead lighting and ceiling maintenance. 53DN39 reaches a platform height of 18 ft. and 38GT54 reaches a platform height of 30 ft.

MERCHANDISE LIFTS

Power Stocker

- 26X075 and 26X077 include a safety sensor

Ground-entry, drivable and pushable hydraulic order pickers raise merchandise to shelf level and allow merchandise to slide off easily to minimize lifting. No outriggers are required. Floor locks on pushable models secure the lift in place. High-quality controls for additional safety and ease-of-use. Guardrails are removable, making loading and unloading easy. Recharge using a standard 110V outlet. Charger cord included.

With Riggers, 38GT54

8RL02

26X076

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	Platform Depth	Platform Width	Outrigger Footprint L	Outrigger Footprint W	Power Source	With Outriggers	Item No.*
Ballylift Pushable Standard and Cantilevered Single Worker Personnel Lifts											
14 ft	20 ft	300 lb	65 in	32 in	64 in	20 in	65 in	68 in	Hydraulic Hand Pump	Yes	**8ADE3**
15 ft	21 ft	300 lb	65 in	32 in	20 in	28 in	65 in	68 in	Hydraulic Hand Pump	Yes	**8WZ64**
MR Lifts Pushable Compact Two Worker Personnel Lifts											
15 ft	21 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	120 V AC Power	Yes	**8WZ65**
15 ft	21 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	12 V DC battery	Yes	**9ADJ0**
19 ft 3 in	25 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	120 V AC Power	Yes	**8ADE4**
19 ft 3 in	25 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	12 V DC battery	Yes	**9WLD4**
23 ft 8 in	30 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	12 V DC battery	Yes	**8ADE5**
23 ft 8 in	30 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	120 V AC Power	Yes	**9VZY7**
28 ft	34 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	120 V AC Power	Yes	**9WAA7**
28 ft	34 ft	500 lb	75 in	32 in	28 in	36 in	75 in	76 in	12 V DC battery	Yes	**9RTC1**
Drivable Compact Single Worker Vertical Mast Lift											
17 ft 6 in	24 ft	330 lb	62 in	30 in	25 in	—	No Outriggers	No Outriggers	Battery	No	**53DN39**
Pushable Compact Single Worker Vertical Mast Lift											
30 ft	35 ft	300 lb	56 in	29 in	27 ¼ in	—	64 in	74 in	Battery	Yes	**38GT54**
Power Stocker Pushable Hydraulic Merchandise Lift											
8 ft 2 in	14 ft	450 lb	54 in	36 in	17 in	23 ½ in	No Outriggers	No Outriggers	Battery	No	**8RL02**
12 ft 2 in	18 ft	650 lb	54 in	42 in	17 in	29 in	No Outriggers	No Outriggers	Battery	No	**26X074** †
12 ft 2 in	18 ft	650 lb	54 in	42 in	17 in	29 in	No Outriggers	No Outriggers	Battery	No	**26X075**
14 ft 9 in	21 ft	650 lb	60 in	43 in	17 in	29 in	No Outriggers	No Outriggers	Battery	No	**26X076** †
14 ft 9 in	21 ft	650 lb	60 in	43 in	17 in	29 in	No Outriggers	No Outriggers	Battery	No	**26X077**
Power Stocker Drivable Hydraulic Merchandise Lift											
12 ft	18 ft	650 lb	60 in	42 in	19 in	—	No Outriggers	No Outriggers	DC	No	**46CF80**

** Standard delivery requires capability to unload from commercial carrier truck. Call 1-800-GRAINGER (472-4643) for information on delivery requirements. † Ergonomic friendly.*

Portable Personnel Lifts

- Safer, more versatile alternative to ladders and scaffolding
- 330-lb. capacity
- Includes tool tray

The LiftPod is easily disassembled to fit in the back of a pickup truck while the Ecolift's patented stored power system raises and lowers the platform quietly without batteries or hydraulics. Ideal for plant and facility maintenance and various contractor applications.

52XE87

Max. Platform Height	Work Height	Overall Length	Overall Width	Platform Depth	Gross Vehicle Weight	Item No.*
4 ft 9 in	11 ft	39 in	28 in	28 in	397 lb	**52XE86**
7 ft 2 in	13 ft	50 in	29 in	33 in	672 lb	**52XE87**

** Standard delivery requires capability to unload from commercial carrier truck. Call 1-800-GRAINGER (472-4643) for information on delivery requirements.*

Drivable Scissor Lifts and Pushable Mini Scissor Lifts

- No outriggers required
- Meet ANSI Standards

Easy-to-operate with joy stick control and feature emergency stop button and lowering system. Pushable, ground entry, 12VDC, lifts are designed with a slim base for access to tight areas. Recharge using a standard 110V outlet. Power unit stored in lockable slide out drawer and comes with battery charge indicator. Drivable scissor lifts have extendable cantilever platforms, minimizes the strains from pushing lifts, providing additional access to machinery and equipment. Also, drivable at full heights and have a battery power source.

Max. Platform Height	Work Height	Load Capacity	Overall Length	Overall Width	Overall Height	Platform Depth	Platform Width	Item No.
Pushable								
9 ft 10 in	16 ft	500 lb	51 in	31 in	70"	46 in	24 in	**26X078**
12 ft 9 in	19 ft	500 lb	51 in	31 in	74"	46 in	24 in	**26X079**
Drivable								
10 ft	16 ft	500 lb	46 in	30 in	73"	46 in	28 in	**45FF19**
12 ft	19 ft	500 lb	46 in	30 in	77"	46 in	28 in	**45FF20**
19 ft	25 ft	500 lb	74 in	30 in	86"	66 in	29 in	**45FF21**
26 ft	32 ft	500 lb	98 in	32 in	92"	90 in	32 in	**45FF22**
26 ft	32 ft	1,000 lb	98 in	46 in	92"	90 in	44 in	**53DN31**
32 ft	40 ft	700 lb	98 in	46 in	96"	90 in	44 in	**53DN32**
40 ft 4 in	46 ft	550 lb	98 in	47 in	102"	90 in	44 in	**53DN33**
45 ft	51 ft	500 lb	112 in	55 in	102"	104 in	44 in	**53DN38**

26X078

Features to Consider When Choosing a Rolling Ladder or Work Platform

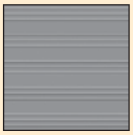
TREAD

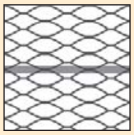
Use the chart to find the right tread material for your work environment.

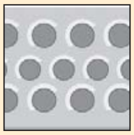
Tread Types:

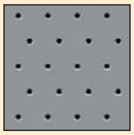
FEATURE	SERRATED	PERFORATED/ OPEN GRIP	EXPANDED METAL	RUBBER MAT/ ABRASIVE MAT/ ANTISLIP VINYL	RIBBED (ALUMINUM)	RECOMMENDED USE
Aggressive Slip-Resistance	●					Ideal in the harshest enviornments where liquids are present and other materials that can create buildup on the tread including grease, oil, and other debris.
Maximum Drainage & Self-Cleaning Properties			●			The most open tread design that provides maximum drainage and self-cleaning properties.
Good Slip-Resistance & Drainage Properties		●				The most common tread used and ideal in most environments. Upward holes provide excellent slip-resistance and downward slots provide good drainage of liquids (exclusive to Tri-Arc).
Durability & Longest Lasting	●	●				Utilize the most material making these treads able to withstand the constant use over time and extending the life of the ladder and keeping it safe for use.
Least Aggressive Environments (offices, backrooms, retail store floors, etc.)				●	●	These solid treads provide slip-resistance properties that are ideal in environments where all types of shoes can be worn and where there are not liquids and other debris found.

Abrasive Mat

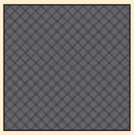

Antislip Vinyl


Expanded Metal


Open Grip


Perforated

Ribbed


Rubber Mat

Serrated

FEATURES TO CONSIDER WHEN CHOOSING A ROLLING LADDER OR WORK PLATFORM

When selecting a rolling ladder, it's important to consider the required access, working height, and load capacity. Understand your space and your needs, as picking the right size or length is just as important as the style you choose.

Load Rating

Load Rating is the maximum weight capacity the ladder can safely carry, including the weight of the user and equipment. Make sure to factor in your tools and protective gear when looking for the right ladder.

Size Considerations

The higher you work, the wider your ladder must be in order to remain safe. Consider working height or height and width limitation on ladder dimensions.

Ladder Actuation

Rolling ladders feature various safety locking mechanisms to make sure your ladder doesn't roll while in use.

PLATFORM HEIGHT
Subtract 5- to 6-ft. from desired working height.

OVERALL HEIGHT
Consider ceiling or overhead obstructions.

BASE DEPTH
Typically the taller the ladder the wider the base. Ladders with a 24"W or smaller base are suitable for use in tight spaces or narrow aisles.

PLATFORM DEPTH
Consider working area.

3UY16

Cotterman® Ballymore Steel Rolling Ladders

- Handrails included
- 450-lb. load capacity
- 24" platform width
- Gray
- 59° climbing angle

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Step Lock Actuation	Base Depth	Handrail Height	Brand	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.	ANTISLIP VINYL Item No.
Assembled												
40 in	70 in	4	10 in	30 in	Step	31 in	30 in	Cotterman	1TGW4	4XM31	4XM32	6ZEU1
50 in	80 in	5	10 in	30 in	Foot	40 in	30 in	Cotterman	3UY14 *	4XM33 *	4XM34 *	6ZEU2 *
60 in	90 in	6	10 in	30 in	Foot	46 in	30 in	Cotterman	3UY15 *	4XM35 *	4XM36 *	6ZEU3 *
70 in	100 in	7	10 in	30 in	Foot	53 in	30 in	Cotterman	3UY16 *	4XM37 *	4XM38 *	6ZEU4 *
80 in	110 in	8	10 in	32 in	Foot	58 in	30 in	Cotterman	3UY17 *	4XM39 *	4XM40 *	6ZEU5 *
90 in	120 in	9	10 in	32 in	Foot	65 in	30 in	Cotterman	1TGW5 *	4XM41 *	4XM42 *	6ZEU6 *
100 in	130 in	10	10 in	32 in	Foot	72 in	30 in	Cotterman	3UY18 *	4XM43 *	4XM44 *	6ZEU7 *
110 in	140 in	11	8 in	32 in	Foot	78 in	30 in	Cotterman	—	8E761 *	9ALM3 *	—
110 in	140 in	11	10 in	32 in	Foot	78 in	30 in	Cotterman	45CJ21 *	—	—	45CJ20 *
Unassembled												
40 in	70 in	4	10 in	30 in	Step	31 in	30 in	Cotterman	3UU73	5FYT2	5FYU4	6ZEU8
50 in	80 in	5	10 in	30 in	Foot	40 in	30 in	Cotterman	3UU74 *	5FYT3 *	5FYU5 *	6ZEU9 *
50 in	83 in	5	14 in	32 in	Step	43 in	30 in	Ballymore	9EX52	9LG30	8VY01	—
60 in	90 in	6	10 in	30 in	Foot	46 in	30 in	Cotterman	3UU75 *	5FYT4 *	5FYU6 *	6ZEV0 *
60 in	93 in	6	14 in	32 in	Step	49 in	30 in	Ballymore	9RZV6	8RNE9	9LGH9	—
70 in	100 in	7	10 in	30 in	Foot	53 in	30 in	Cotterman	3UU76 *	5FYT5 *	5FYU7 *	6ZEV1 *
70 in	103 in	7	14 in	32 in	Step	55 in	30 in	Ballymore	9WHG9	8YFK2	8DUP4	—
80 in	110 in	8	10 in	32 in	Foot	58 in	30 in	Cotterman	3UU77 *	5FYT6 *	5FYU8 *	6ZEV2 *
80 in	113 in	8	14 in	32 in	Step	61 in	30 in	Ballymore	8TR84	8PP60	8DZV4	—
90 in	120 in	9	10 in	32 in	Foot	67 in	30 in	Cotterman	5FYV6 *	5FYT7 *	5FYU9 *	6ZEV3 *
90 in	123 in	9	14 in	32 in	Step	68 in	30 in	Ballymore	8DW15	8UX21	9NZW9	—
100 in	130 in	10	10 in	32 in	Foot	72 in	30 in	Cotterman	3UU78 *	5FYT8 *	5FYV0 *	6ZEV4 *
100 in	133 in	10	14 in	32 in	Step	74 in	30 in	Ballymore	9WDN1	8TRP5	8YFL1	—
110 in	140 in	11	10 in	32 in	Foot	78 in	30 in	Cotterman	3UU79 *	5FYT9 *	5FYV1 *	6ZEV5 *
110 in	143 in	11	14 in	32 in	Step	80 in	30 in	Ballymore	8UWZ8	9KDH9	9MH37	—
120 in	153 in	12	14 in	32 in	Step	87 in	30 in	Ballymore	8DYT6	9KD09	8ZFE1	—
120 in	162 in	12	10 in	32 in	Foot	88 in	42 in	Cotterman	3UU80 *	5FYU0 *	5FYV2 *	6ZEV6 *
130 in	170 in	13	10 in	42 in	Foot	95 in	42 in	Cotterman	3UU81 *	5FYU1 *	5FYV3 *	6ZEV7 *
140 in	182 in	14	10 in	42 in	Foot	101 in	42 in	Cotterman	3UU82 *	5FYU2 *	5FYV4 *	6ZEV8 *
150 in	192 in	15	10 in	42 in	Foot	108 in	30 in	Cotterman	—	—	5FYV5 *	—
150 in	192 in	15	10 in	42 in	Foot	108 in	42 in	Cotterman	3UU83 *	5FYU3 *	—	6ZEV9 *

** Ladders for use in California will be modified to comply with California OSHA standards.*

Find more information on Rolling Ladders on page 1034.

4-Step
4XM72

Cotterman®
Welded Aluminum Rolling Ladders

- Ship assembled
- 350-lb. load capacity
- 14" platform depth
- 59° climbing angle

Up to 50% lighter than comparable steel ladders, aluminum is easy to clean and corrosion-resistant.

Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Step Lock Actuation	Base Depth	SERRATED Item No.	RIBBED Item No.
With 30"H Handrails								
20 in	50 in	2	16 in	18 in	Step	23 in	2JYW3	—
	50 in	2	24 in	26 in	Step	23 in	2JYX1	—
30 in	60 in	3	16 in	22 in	Step	29 in	2JYW5	21VE75
	60 in	3	24 in	30 in	Step	29 in	4XM71	21VE76
40 in	70 in	4	16 in	22 in	Step	36 in	2JYW7	21VE78
	70 in	4	24 in	30 in	Step	36 in	4XM72	21VE79
50 in	80 in	5	16 in	22 in	Step	43 in	2JYW8 *	21VE80 *
	80 in	5	24 in	30 in	Step	43 in	4XM73 *	21VE81 *
60 in	90 in	6	16 in	24 in	Step	50 in	2JYW9 *	21VE82 *
	90 in	6	24 in	30 in	Step	50 in	4XM74 *	21VE83 *
70 in	100 in	7	24 in	30 in	Step	57 in	2JYX2 *	21VE84 *
80 in	110 in	8	24 in	30 in	Step	63 in	2JYX3 *	21VE85 *
Without Handrails								
12"	12 in	1	14 in	26 in	Casters	20 in	20Z531	—
20"	20 in	2	14 in	18 in	Casters	23 in	2JYW2	—
	20 in	2	14 in	26 in	Casters	23 in	20Z532	—
20 in	20 in	2	16 in	18 in	Step	23 in	21VE71	—
30"	30 in	3	14 in	22 in	Casters	29 in	2JYW4	—
	30 in	3	14 in	30 in	Casters	29 in	20Z533	—
30 in	30 in	3	16 in	22 in	Step	29 in	—	21VE74
40 in	40 in	4	24 in	30 in	Casters	36 in	20Z534 †	45CJ71 †
	40 in	4	16 in	22 in	Casters	36 in	2JYW6 †	21VE77 †

** Ladders for use in California will be modified to comply with California OSHA Standards.*
† 4-step without handrails not for use in California.

6-Step
3FMJ2

Cotterman®
Welded Stainless Steel Rolling Ladders

- Ship assembled
- 450-lb. load capacity
- 10" platform depth
- 59° climbing angle

Type 304 stainless steel construction is ideal for washdown and corrosive environments.

Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Step Lock Actuation	Base Depth	Handrail Height	SERRATED Item No.	EXPANDED METAL Item No.
With Handrails									
20 in	50 in	2	16 in	18 in	Step	19 in	30 in	—	45CH96
30 in	60 in	3	16 in	20 in	Step	27 in	30 in	45CJ01	45CH71
	60 in	3	24 in	30 in	Step	27 in	30 in	45CJ49	45CJ73
40 in	70 in	4	16 in	20 in	Step	31 in	30 in	5FYP9 *	5FYR5 *
	70 in	4	24 in	30 in	Step	31 in	30 in	45CH55	45CH53
50 in	80 in	5	24 in	30 in	Foot	40 in	30 in	5FYR0 *	5FYR6 *
	80 in	5	16 in	20 in	Foot	39 in	30 in	45CJ04 *	45CJ06 *
60 in	90 in	6	24 in	30 in	Foot	46 in	30 in	3FMJ2 *	5FYR7 *
	90 in	6	16 in	24 in	Foot	46 in	30 in	45CJ84 *	45CH94 *
70 in	100 in	7	24 in	30 in	Foot	53 in	30 in	5FYR1 *	5FYR8 *
80 in	110 in	8	24 in	32 in	Foot	58 in	30 in	3FMJ3 *	5FYR9 *
90 in	120 in	9	24 in	32 in	Foot	65 in	30 in	5FYR2 *	5FYT0 *
100 in	130 in	10	24 in	32 in	Foot	72 in	30 in	3FMJ4 *	5FYT1 *
110 in	140 in	11	24 in	32 in	Foot	81 in	30 in	45CH60 *	45CJ47 *
120 in	162 in	12	24 in	32 in	Foot	88 in	42 in	45CJ42 *	45CJ38 *
Without Handrails									
20"	20 in	2	10 in	18 in	Casters	19 in	—	5FYP7	5FYR3
30"	30 in	3	10 in	20 in	Casters	26 in	—	5FYP8	5FYR4

** Ladders for use in California will be modified to comply with California OSHA Standards.*

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Bottom Width	Base Depth	Handrail Height	Brand	PERFORATED Item No.	SERRATED Item No.	EXPANDED METAL Item No.
50°											
60 in	90 in	6	800 lb	12 in	30 in	60 in	30 in	Cotterman	3UU97 *	5FZA2 *	5FYZ3 *
	90 in	6	800 lb	24 in	30 in	72 in	30 in	Cotterman	20Z444 *	20Z443 *	20Z442 *
	96 in	6	600 lb	17 in	35 in	66 in	36 in	Tri-Arc	4RCN4 *	4RCP2 *	—
70 in	100 in	7	800 lb	12 in	30 in	69 in	30 in	Cotterman	3UU98 *	5FZA3 *	5FYZ4 *
	100 in	7	800 lb	24 in	30 in	81 in	30 in	Cotterman	20Z447 *	20Z446 *	20Z445 *
	106 in	7	600 lb	17 in	35 in	74 in	36 in	Tri-Arc	4RCN5 *	4RCP3 *	—
80 in	110 in	8	800 lb	12 in	32 in	78 in	30 in	Cotterman	3UU99 *	5FZA4 *	5FYZ5 *
	110 in	8	800 lb	24 in	32 in	90 in	30 in	Cotterman	20Z450 *	20Z449 *	20Z448 *
	116 in	8	600 lb	17 in	35 in	82 in	36 in	Tri-Arc	4RCN6 *	4RCP4 *	—
90 in	120 in	9	800 lb	12 in	32 in	88 in	30 in	Cotterman	5FZC1 *	5FZC3 *	5FZC2 *
	120 in	9	800 lb	24 in	32 in	100 in	30 in	Cotterman	20Z453 *	20Z452 *	20Z451 *
	126 in	9	600 lb	17 in	35 in	91 in	36 in	Tri-Arc	4RCN7 *	4RCP5 *	—
100 in	130 in	10	800 lb	12 in	32 in	97 in	30 in	Cotterman	3UU84 *	5FZA5 *	5FYZ6 *
	130 in	10	800 lb	24 in	32 in	109 in	30 in	Cotterman	20Z456 *	20Z455 *	20Z454 *
	136 in	10	600 lb	17 in	35 in	99 in	36 in	Tri-Arc	4RCN8 *	4RCP6 *	—
110 in	140 in	11	800 lb	12 in	32 in	106 in	30 in	Cotterman	3UU85 *	5FZA6 *	5FYZ7 *
	140 in	11	800 lb	24 in	32 in	118 in	30 in	Cotterman	20Z459 *	20Z458 *	20Z457 *
	146 in	11	600 lb	17 in	35 in	107 in	36 in	Tri-Arc	4RCN9 *	4RCP7 *	—
120 in	156 in	12	600 lb	17 in	35 in	116 in	36 in	Tri-Arc	4RCP1 *	4RCP8 *	—
	162 in	12	800 lb	12 in	32 in	116 in	42 in	Cotterman	3UU86 *	5FZA7 *	5FYZ8 *
	162 in	12	800 lb	24 in	32 in	128 in	42 in	Cotterman	20Z462 *	20Z461 *	20Z460 *
130 in	172 in	13	800 lb	12 in	42 in	125 in	42 in	Cotterman	3UU87 *	5FZA8 *	5FYZ9 *
	172 in	13	800 lb	24 in	42 in	137 in	42 in	Cotterman	20Z465 *	20Z464 *	20Z463 *
140 in	182 in	14	800 lb	12 in	42 in	134 in	42 in	Cotterman	3UU88 *	5FZA9 *	5FZA0 *
	182 in	14	800 lb	24 in	42 in	146 in	42 in	Cotterman	20Z468 *	20Z467 *	20Z466 *
150 in	192 in	15	800 lb	12 in	42 in	143 in	42 in	Cotterman	3UU89 *	5FZC0 *	5FZA1 *
	192 in	15	800 lb	24 in	42 in	155 in	42 in	Cotterman	20Z471 *	20Z470 *	20Z469 *
56°											
60 in	96 in	6	600 lb	10 in	35 in	50 in	36 in	Tri-Arc	2NJV4 *	2NJW2 *	—
70 in	106 in	7	600 lb	10 in	35 in	57 in	36 in	Tri-Arc	2NJV5 *	2NJW3 *	—
80 in	116 in	8	600 lb	10 in	35 in	64 in	36 in	Tri-Arc	2NJV6 *	2NJW4 *	—
90 in	126 in	9	600 lb	10 in	35 in	69 in	36 in	Tri-Arc	2NJV7 *	2NJW5 *	—
100 in	136 in	10	600 lb	10 in	35 in	76 in	36 in	Tri-Arc	2NJV8 *	2NJW6 *	—
110 in	146 in	11	600 lb	10 in	35 in	83 in	36 in	Tri-Arc	2NJV9 *	2NJW7 *	—
120 in	156 in	12	600 lb	10 in	35 in	90 in	36 in	Tri-Arc	2NJW1 *	2NJW8 *	—

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Bottom Width	Base Depth	Handrail Height	Brand	SERRATED Item No.	PERFORATED Item No.
59°										
50 in	92 in	5	1,000 lb	24 in	37 in	56 in	42 in	Cotterman	46C330	46C338
60 in	102 in	6	1,000 lb	24 in	37 in	62 in	42 in	Cotterman	46C331	46C339
70 in	112 in	7	1,000 lb	24 in	37 in	68 in	42 in	Cotterman	46C332	46C340
80 in	122 in	8	1,000 lb	24 in	37 in	74 in	42 in	Cotterman	46C333	46C341
90 in	132 in	9	1,000 lb	24 in	37 in	80 in	42 in	Cotterman	46C334	46C342
100 in	142 in	10	1,000 lb	24 in	37 in	86 in	42 in	Cotterman	46C335	46C343
110 in	152 in	11	1,000 lb	24 in	42 in	92 in	42 in	Cotterman	46C336	46C344
120 in	162 in	12	1,000 lb	24 in	42 in	98 in	42 in	Cotterman	46C337	46C345

** Ladders for use in California will be modified to comply with California OSHA Standards.*

7-Step
4RCN5

7-Step
46C332

Cotterman® TRI-ARC SIGNATURE SERIES
Heavy-Duty Steel Rolling Ladders

- Handrails available
- Ship unassembled
- 24" platform width
- 50° and 56° ladders are gray; 59° are gray/yellow
- Foot-activated step lock

50°, 56°, and 59° climbing angles for easy forward descent.

Description	Brand	Item No.
Gate Options for Extra Heavy-Duty Rolling Ladders		
Front Gate	Cotterman	29JU21
Rear Side Gate	Cotterman	29JU24

Cotterman®
TRI-ARC SIGNATURE SERIES

Deep Top Steel Rolling Ladders with 20" and 30" Deep Platforms

- Handrails included
- 450-lb. load capacity
- Gray
- Cotterman: 59° climbing angle
- Tri-Arc: 56° climbing angle

Large depth top platform provides ample safe working space.

No. of Steps	Step Width	Handrail Height	Platform Height	Overall Height	Bottom Width	Base Depth	Brand	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
20 in Platform Depth										
Assembled										
2	24 in	30 in	20 in	50 in	26 in	28 in	Cotterman	36LH53	21UP55	21UP57
4	24 in	30 in	40 in	70 in	30 in	41 in	Cotterman	5FYV7	5FYW4	5FYX1
5	24 in	30 in	50 in	80 in	30 in	50 in	Cotterman	5FYV8 *	5FYW5 *	5FYX2 *
6	24 in	30 in	60 in	90 in	30 in	56 in	Cotterman	5FYV9 *	5FYW6 *	5FYX3 *
7	24 in	30 in	70 in	100 in	30 in	63 in	Cotterman	5FYW0 *	5FYW7 *	5FYX4 *
8	24 in	30 in	80 in	110 in	32 in	71 in	Cotterman	5FYW1 *	5FYW8 *	5FYX5 *
9	24 in	30 in	90 in	120 in	32 in	77 in	Cotterman	5FYW2 *	5FYW9 *	5FYX6 *
10	24 in	30 in	100 in	130 in	32 in	84 in	Cotterman	5FYW3 *	5FYX0 *	5FYX7 *
11	24 in	30 in	110 in	140 in	32 in	91 in	Cotterman	45CJ81 *	—	45CH95 *
12	24 in	42 in	120 in	162 in	32 in	98 in	Cotterman	45CH91 *	45CH98 *	45CJ57 *
Unassembled										
2	16 in	36 in	20 in	56 in	21 in	31 in	Tri-Arc	25NW16	—	25NW13
2	24 in	36 in	20 in	56 in	28 in	31 in	Tri-Arc	25NW22	—	25NW19
3	16 in	36 in	30 in	66 in	24 in	38 in	Tri-Arc	25NW28	—	25NW25
3	24 in	36 in	30 in	66 in	30 in	38 in	Tri-Arc	25NW34	—	25NW31
4	16 in	36 in	40 in	76 in	24 in	45 in	Tri-Arc	25NW40	—	25NW37
4	24 in	36 in	40 in	76 in	30 in	45 in	Tri-Arc	25NW46	—	25NW43
5	16 in	36 in	50 in	86 in	24 in	52 in	Tri-Arc	25NW52 *	—	25NW49 *
5	24 in	30 in	50 in	80 in	30 in	50 in	Cotterman	20Z196 *	20Z219 *	20Z208 *
5	24 in	36 in	50 in	86 in	30 in	52 in	Tri-Arc	25NW58 *	—	25NW55 *
6	16 in	36 in	60 in	96 in	27 in	60 in	Tri-Arc	25NW64 *	—	25NW61 *
6	24 in	30 in	60 in	90 in	30 in	56 in	Cotterman	20Z197 *	20Z220 *	20Z209 *
6	24 in	36 in	60 in	96 in	35 in	60 in	Tri-Arc	1CJG9 *	—	1CJH9 *
7	16 in	36 in	70 in	106 in	27 in	67 in	Tri-Arc	25NW72 *	—	25NW69 *
7	24 in	30 in	70 in	100 in	30 in	63 in	Cotterman	20Z198 *	20Z221 *	20Z210 *
7	24 in	36 in	70 in	106 in	35 in	67 in	Tri-Arc	1CJH1 *	—	1CJJ1 *
8	24 in	30 in	80 in	110 in	32 in	68 in	Cotterman	20Z199 *	20Z222 *	20Z211 *
8	24 in	36 in	80 in	116 in	35 in	74 in	Tri-Arc	1CJH2 *	—	1CJJ2 *
9	24 in	30 in	90 in	120 in	32 in	75 in	Cotterman	20Z201 *	20Z223 *	20Z212 *
10	24 in	30 in	100 in	130 in	32 in	82 in	Cotterman	20Z202 *	20Z224 *	20Z213 *
10	24 in	36 in	100 in	136 in	35 in	86 in	Tri-Arc	1CJH3 *	—	1CJJ3 *
11	24 in	30 in	110 in	140 in	32 in	88 in	Cotterman	20Z203 *	20Z225 *	20Z214 *
11	24 in	36 in	110 in	146 in	35 in	93 in	Tri-Arc	1CJH4 *	—	1CJJ4 *
12	24 in	36 in	120 in	156 in	35 in	100 in	Tri-Arc	1CJH5 *	—	1CJJ5 *
12	24 in	42 in	120 in	162 in	32 in	98 in	Cotterman	20Z204 *	20Z226 *	20Z215 *
13	24 in	36 in	130 in	166 in	40 in	106 in	Tri-Arc	1CJH6 *	—	1CJJ6 *
13	24 in	42 in	130 in	172 in	42 in	105 in	Cotterman	20Z205 *	20Z227 *	20Z216 *
14	24 in	36 in	140 in	176 in	40 in	113 in	Tri-Arc	1CJH7 *	—	1CJJ7 *
14	24 in	42 in	140 in	182 in	42 in	111 in	Cotterman	20Z206 *	20Z228 *	20Z217 *
15	24 in	36 in	150 in	186 in	40 in	120 in	Tri-Arc	1CJH8 *	—	1CJJ8 *
15	24 in	42 in	150 in	192 in	42 in	118 in	Cotterman	20Z207 *	20Z229 *	20Z218 *
30 in Platform Depth										
Assembled										
4	24 in	30 in	40 in	70 in	30 in	51 in	Cotterman	20Z423	20Z421	20Z422
5	24 in	30 in	50 in	80 in	30 in	60 in	Cotterman	20Z426 *	20Z424 *	20Z425 *
6	24 in	30 in	60 in	90 in	30 in	66 in	Cotterman	20Z429 *	20Z427 *	20Z428 *
7	24 in	30 in	70 in	100 in	30 in	73 in	Cotterman	20Z432 *	20Z430 *	20Z431 *
8	24 in	30 in	80 in	110 in	32 in	78 in	Cotterman	20Z435 *	20Z433 *	20Z434 *
9	24 in	30 in	90 in	120 in	32 in	85 in	Cotterman	20Z438 *	20Z436 *	20Z437 *
10	24 in	30 in	100 in	130 in	32 in	92 in	Cotterman	20Z441 *	20Z439 *	20Z440 *
12	24 in	42 in	120 in	162 in	32 in	108 in	Cotterman	45CH75 *	45CJ48 *	45CH45 *
Unassembled										
5	24 in	30 in	50 in	80 in	30 in	60 in	Cotterman	20Z230 *	20Z252 *	20Z241 *
6	24 in	30 in	60 in	90 in	30 in	66 in	Cotterman	20Z231 *	20Z253 *	20Z242 *
7	24 in	30 in	70 in	100 in	30 in	73 in	Cotterman	20Z232 *	20Z254 *	20Z243 *
8	24 in	30 in	80 in	110 in	32 in	78 in	Cotterman	20Z233 *	20Z255 *	20Z244 *
9	24 in	30 in	90 in	120 in	32 in	85 in	Cotterman	20Z234 *	20Z256 *	20Z245 *
10	24 in	30 in	100 in	130 in	32 in	92 in	Cotterman	20Z235 *	20Z257 *	20Z246 *
10	30 in	30 in	100 in	130 in	33 in	132 in	Cotterman	—	21UX87	21UX90
11	24 in	30 in	110 in	140 in	32 in	98 in	Cotterman	20Z236 *	20Z258 *	20Z247 *
12	24 in	36 in	120 in	156 in	35 in	110 in	Tri-Arc	25NW85	—	25NW84
12	24 in	42 in	120 in	162 in	32 in	108 in	Cotterman	20Z237 *	20Z259 *	20Z248 *
13	24 in	42 in	130 in	172 in	42 in	115 in	Cotterman	20Z238 *	20Z260 *	20Z249 *
14	24 in	42 in	140 in	182 in	42 in	121 in	Cotterman	20Z239 *	20Z261 *	20Z250 *
15	24 in	42 in	150 in	192 in	42 in	128 in	Cotterman	20Z240 *	20Z262 *	20Z251 *
17	30 in	42 in	170 in	212 in	50 in	234 in	Cotterman	—	—	21VA14
19	30 in	42 in	190 in	232 in	50 in	258 in	Cotterman	—	—	21VA15

*** Ladders for use in California will be modified to comply with California OSHA Standards.***

TRI-ARC SIGNATURE SERIES

Deep Top Welded Aluminum Rolling Ladders

- Handrails are 32"H
- 350-lb. load capacity
- Ship assembled
- Natural finish
- 56° climbing angle

Platform Height	Overall Height	No. of Steps	Platform Depth	Platform Width	Bottom Width	Step Lock Actuation	SERRATED Item No.	RIBBED Item No.
With Handrails								
20 in	52 in	2	21 in	16 in	20 in	Casters	25NX79	25NX76
	52 in	2	21 in	24 in	29 in	Casters	25NX85	25NX82
	52 in	2	28 in	16 in	20 in	Casters	25NX80	25NX77
	52 in	2	28 in	24 in	29 in	Casters	25NX86	25NX83
30 in	62 in	3	14 in	16 in	22 in	Casters	29RJ87	29RK07
	62 in	3	21 in	16 in	22 in	Casters	25NX91	25NX88
	62 in	3	21 in	24 in	29 in	Casters	25NX97	25NX94
	62 in	3	28 in	16 in	22 in	Casters	25NX92	25NX89
	62 in	3	28 in	24 in	29 in	Casters	25NX98	25NX95
40 in	72 in	4	14 in	24 in	32 in	Casters	29RJ94	—
	72 in	4	14 in	16 in	22 in	Casters	29RJ88	—
	72 in	4	21 in	16 in	22 in	Casters	25NY04	25NY01
	72 in	4	21 in	24 in	32 in	Casters	25NY10	25NY07
	72 in	4	28 in	16 in	22 in	Casters	25NY05	25NY02
	72 in	4	28 in	24 in	32 in	Casters	25NY11	25NY08
50 in	82 in	5	14 in	24 in	32 in	Casters	29RJ95	29RK15
	82 in	5	21 in	24 in	32 in	Casters	25NY22	25NY19
	82 in	5	21 in	16 in	22 in	Casters	25NY16	25NY13
	82 in	5	28 in	16 in	22 in	Casters	25NY17	25NY14
	82 in	5	28 in	24 in	32 in	Casters	25NY23	25NY20
60 in	92 in	6	21 in	16 in	26 in	Casters	25NY28	25NY25
	92 in	6	21 in	24 in	32 in	Casters	25NY34	25NY31
	92 in	6	28 in	16 in	26 in	Casters	25NY29	25NY26
	92 in	6	28 in	24 in	32 in	Casters	25NY35	25NY32
70 in	102 in	7	21 in	24 in	32 in	Casters	25NY46	25NY43
	102 in	7	21 in	16 in	26 in	Casters	25NY40	25NY37
	102 in	7	28 in	16 in	26 in	Casters	25NY41	25NY38
	102 in	7	28 in	24 in	32 in	Casters	25NY47	25NY44
80 in	112 in	8	21 in	24 in	36 in	Foot	25NY52	25NY49
	112 in	8	28 in	24 in	36 in	Foot	—	25NY50
	112 in	8	28 in	24 in	36 in	Casters	25NY53	—
90 in	122 in	9	21 in	24 in	36 in	Foot	25NY58	25NY55
	122 in	9	28 in	24 in	36 in	Foot	25NY59	25NY56
100 in	132 in	10	21 in	24 in	36 in	Foot	25NY64	25NY61
	132 in	10	28 in	24 in	36 in	Foot	25NY65	25NY62
110 in	142 in	11	21 in	24 in	38 in	Foot	25NY70	25NY67
	142 in	11	28 in	24 in	38 in	Foot	25NY71	25NY68
Without Handrails								
20"	20 in	2	19 in	21 in	20 in	Casters	25NX43	—
	20 in	2	19 in	21 in	31 in	Casters	—	25NX40
	20 in	2	28 in	21 in	29 in	Casters	25NX49	25NX46
40 in	40 in	4	14 in	24 in	32 in	Casters	—	29RK05
	40 in	4	21 in	24 in	29 in	Casters	25NX73	25NX70
	40 in	4	21 in	16 in	21 in	Casters	25NX67	25NX64
	40 in	4	28 in	16 in	22 in	Casters	25NX68	25NX65
	40 in	4	28 in	24 in	32 in	Casters	25NX74	25NX71

Find more information on Rolling Ladders on page 1034.

Cotterman®

Welded Narrow-Base Steel Rolling Ladders

- 30"H handrails included
- Ship assembled
- 450-lb. load capacity
- 10" platform depth
- 16" platform width
- Gray
- 59° climbing angle

3-Step
3UY12

Platform Height	Overall Height	No. of Steps	Bottom Width	Step Lock Actuation	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
30 in	60 in	3	20 in	Step	26 in	3UY12	4XM27	4XM28
40 in	70 in	4	20 in	Step	31 in	3UY13	4XM29	4XM30
50 in	80 in	5	20 in	Foot	40 in	5FYX8 *	5FYY8 *	5FYY3 *
60 in	90 in	6	24 in	Foot	46 in	5FYX9 *	5FYY9 *	5FYY4 *
70 in	100 in	7	24 in	Foot	53 in	5FYY0 *	5FYZ0 *	5FYY5 *
80 in	110 in	8	24 in	Foot	58 in	5FYY1 †	5FYZ1 †	5FYY6 †
90 in	120 in	9	24 in	Foot	65 in	5FYY2 †	5FYZ2 †	5FYY7 †

** Ladders for use in California will be modified to comply with California OSHA Standards.*
† 8- and 9-stepladders are not for use in California.

3-Step
3UY22

7-Step
4XM60

11-Step
20Z387

Cotterman® Easy 50®

Easy Climbing Steel Rolling Ladders with 12" and 24" Deep Platforms

- Handrails included
- 450-lb. load capacity
- Gray

50° climbing angle for easy forward descent.

No. of Steps	Step Width	Handrail Height	Platform Height	Overall Height	Bottom Width	Step Lock Actuation	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
12 in Platform Depth										
Assembled										
3	16 in	30 in	30 in	60 in	20 in	Step	32 in	3UY22	4XM49	4XM50
4	16 in	30 in	40 in	70 in	20 in	Step	40 in	1TGW6	4XM51	4XM52
4	24 in	30 in	40 in	70 in	30 in	Step	40 in	3UY23	4XM53	—
4	24 in	30 in	40 in	70 in	30 in	Casters	40 in	—	—	4XM54
5	24 in	30 in	50 in	80 in	30 in	Foot	51 in	3UY24 *	4XM55 *	4XM56 *
6	24 in	30 in	60 in	90 in	30 in	Foot	60 in	3UY25 *	4XM57 *	4XM58 *
7	24 in	30 in	70 in	100 in	30 in	Foot	69 in	3UY26 *	4XM59 *	4XM60 *
8	24 in	30 in	80 in	110 in	32 in	Foot	78 in	3UY27 *	4XM61 *	4XM62 *
9	24 in	30 in	90 in	120 in	32 in	Foot	88 in	1TGW7 *	1TGW9 *	1TGW8 *
10	24 in	30 in	100 in	130 in	32 in	Foot	97 in	3UY28 *	1TGX1 *	3UY29 *
Unassembled										
9	24 in	30 in	90 in	120 in	32 in	Foot	88 in	20Z381 *	20Z379 *	20Z380 *
10	24 in	30 in	100 in	130 in	32 in	Foot	97 in	20Z384 *	20Z382 *	20Z383 *
11	24 in	30 in	110 in	140 in	32 in	Foot	106 in	20Z387 *	20Z385 *	20Z386 *
12	24 in	42 in	120 in	162 in	32 in	Foot	116 in	20Z390 *	20Z388 *	20Z389 *
13	24 in	42 in	130 in	172 in	42 in	Foot	125 in	20Z393 *	20Z391 *	20Z392 *
14	24 in	42 in	140 in	182 in	42 in	Foot	134 in	20Z396 *	20Z394 *	20Z395 *
15	24 in	42 in	150 in	192 in	42 in	Foot	143 in	20Z399 *	20Z397 *	20Z398 *
24 in Platform Depth										
Assembled										
3	16 in	30 in	30 in	60 in	20 in	Step	44 in	20Z474	20Z472	20Z473
4	16 in	30 in	40 in	70 in	20 in	Step	52 in	20Z477	20Z475	20Z476
4	24 in	30 in	40 in	70 in	30 in	Step	52 in	20Z480	20Z478	20Z479
5	24 in	30 in	50 in	80 in	30 in	Foot	63 in	20Z483 *	20Z481 *	20Z482 *
6	24 in	30 in	60 in	90 in	30 in	Foot	72 in	20Z486 *	20Z484 *	20Z485 *
7	24 in	30 in	70 in	100 in	30 in	Foot	81 in	20Z489 *	20Z487 *	20Z488 *
8	24 in	30 in	80 in	110 in	32 in	Foot	90 in	20Z492 *	20Z490 *	20Z491 *
9	24 in	30 in	90 in	120 in	32 in	Foot	100 in	20Z495 *	20Z493 *	20Z494 *
Unassembled										
10	24 in	30 in	100 in	130 in	32 in	Foot	109 in	45CJ45 *	45CH61 *	45CH44 *
11	24 in	30 in	110 in	140 in	32 in	Foot	118 in	45CJ03 *	45CJ56 *	45CJ85 *
12	24 in	42 in	120 in	162 in	32 in	Foot	128 in	45CJ15 *	45CJ27 *	45CH49 *
13	24 in	30 in	130 in	172 in	42 in	Foot	137 in	45CJ77 *	45CJ05 *	45CH86 *
14	24 in	30 in	140 in	182 in	42 in	Foot	146 in	45CJ83 *	45CH84 *	45CJ26 *
15	24 in	30 in	150 in	192 in	42 in	Foot	155 in	45CJ86 *	45CJ24 *	45CJ02 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*

Find more information on Rolling Ladders on page 1034.

6-Step
45FF55

TRI-ARC SIGNATURE SERIES

Gateway Rear-Exit Steel Ladders

- Handrails included
- Ship unassembled
- 450-lb. load capacity
- 24" platform width
- 56° climbing angle
- Foot-activated step lock

The rear-exit feature allows user to safely exit onto an elevated surface.

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Base Depth	PERFORATED Item No.	SERRATED Item No.
60 in	102 in	6	30 in	35 in	70 in	45FF55	45FF65
70 in	112 in	7	30 in	35 in	77 in	45FF56	45FF66
80 in	122 in	8	30 in	35 in	84 in	45FF57	45FF67
90 in	132 in	9	30 in	35 in	89 in	45FF58	45FF68
100 in	142 in	10	30 in	35 in	96 in	45FF59	45FF69
110 in	152 in	11	30 in	35 in	103 in	45FF60	45FF70
120 in	162 in	12	30 in	35 in	110 in	45FF61	45FF71
130 in	172 in	13	30 in	40 in	116 in	45FF62	45FF72
140 in	182 in	14	30 in	40 in	123 in	45FF63	45FF73
150 in	192 in	15	30 in	40 in	130 in	45FF64	45FF74

8-Step
1CJJ9

TRI-ARC SIGNATURE SERIES

Cotterman® All-Directional Easy-Turn Steel Rolling Ladders

- Handrails included
- 56° ladders ship unassembled; 59° ladders ship assembled
- 450-lb. load capacity
- 10" platform depth
- Gray
- Foot-activated step lock

Ladder turns within its own radius, making it ideal for use in tight and narrow spaces.

Platform Height	Overall Height	No. of Steps	Platform Width	Bottom Width	Base Depth	Handrail Height	Brand	PERFORATED Item No.	SERRATED Item No.
56°									
70 in	106 in	7	24 in	35 in	57 in	36 in	Tri-Arc	—	25NV65 *
80 in	116 in	8	24 in	35 in	64 in	36 in	Tri-Arc	1CJJ9 *	25NV66 *
90 in	126 in	9	24 in	35 in	69 in	36 in	Tri-Arc	—	25NV67 *
100 in	136 in	10	24 in	35 in	76 in	36 in	Tri-Arc	1CJK1 *	25NV68 *
110 in	146 in	11	24 in	35 in	83 in	36 in	Tri-Arc	1CJK2 *	25NV69 *
120 in	156 in	12	24 in	35 in	90 in	36 in	Tri-Arc	1CJK3 *	25NV70 *
130 in	166 in	13	24 in	40 in	96 in	36 in	Tri-Arc	1CJK4 *	25NV71 *
140 in	176 in	14	24 in	40 in	103 in	36 in	Tri-Arc	1CJK5 *	25NV72 *
150 in	186 in	15	24 in	40 in	110 in	36 in	Tri-Arc	1CJK6 *	25NV73 *
59°									
80 in	110 in	8	16 in	24 in	110 in	30 in	Cotterman	21UT73 *	—
120 in	162 in	12	24 in	32 in	88 in	42 in	Cotterman	45CH76 *	45CJ66 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*

6-Step
15F026

TRI-ARC SIGNATURE SERIES U-DESIGN CONFIGURABLE LADDERS

U-Design Configurable Steel Rolling Ladders

- 36"H handrails included
- Ship unassembled
- 450-lb. load capacity
- 24" platform width
- Gray
- Foot-activated step lock

Platform Height	Overall Height	No. of Steps	Platform Depth	Bottom Width	Base Depth	PERFORATED Item No.	SERRATED Item No.
50°							
60 in	96 in	6	17 in	35 in	66 in	29RJ50	29RJ40
70 in	106 in	7	17 in	35 in	74 in	29RJ51	29RJ41
80 in	116 in	8	17 in	35 in	82 in	29RJ52	29RJ42
90 in	126 in	9	17 in	35 in	91 in	29RJ53	29RJ43
100 in	136 in	10	17 in	35 in	99 in	29RJ54	29RJ44
110 in	146 in	11	17 in	35 in	107 in	29RJ55	29RJ45
120 in	156 in	12	17 in	35 in	116 in	29RJ56	29RJ46
130 in	166 in	13	17 in	40 in	124 in	29RJ57	29RJ47
140 in	176 in	14	17 in	40 in	132 in	29RJ58	29RJ48
150 in	186 in	15	17 in	40 in	141 in	29RJ59	29RJ49
56°							
60 in	96 in	6	10 in	35 in	50 in	15F014	15F026
70 in	106 in	7	10 in	35 in	57 in	15F015	15F027
80 in	116 in	8	10 in	35 in	64 in	15F016	15F028
90 in	126 in	9	10 in	35 in	69 in	15F017	15F029
100 in	136 in	10	10 in	35 in	76 in	15F018	15F030
110 in	146 in	11	10 in	35 in	83 in	15F019	15F031
120 in	156 in	12	10 in	35 in	90 in	15F020	15F032
130 in	166 in	13	10 in	40 in	96 in	15F021	15F033
140 in	176 in	14	10 in	40 in	103 in	15F022	15F034
150 in	186 in	15	10 in	40 in	110 in	15F023	15F035

Description	Item No.
Deep Top Kit	
Additional 10"L to Platform Depth	15F036
Additional 20"L to Platform Depth	15F037
All-Direction Maneuverability Kit	
For Use With 6- through 12-Step Ladders	15F040 †
For Use With 13- through 15-Step Ladders	15F041 †
Stock Picking Shelf Kit	
2 50-lb. Cap. Shelves For Use With 6- and 7-Step Ladders	15F042 *
3 50-lb. Cap. Shelves For Use With 8- through 15-Step Ladders	15F043 *

** Deep Top Kit is required when ordering Stock Picking Shelf Kit. † All-Direction Maneuverability Kits and Stock Picking Shelf Kits cannot be combined.*

Customize Your U-Design Steel Rolling Ladder

Configure your U-Design Steel Rolling Ladder exactly how you want it. Combine additional features to build a productive ladder for your needs.

Select from 3 Accessory Kits

Perforated

Serrated

- **Deep Top Kits—**Add 10" or 20" of additional length to the platform.
- **All-Direction Maneuverability Kits—**Enable the ladder to turn within its own radius.

- **Stock Picking Shelf Kits—**Add two or three 50-lb. capacity shelves.

Note: All-Direction and Stock Picking Shelf Kits cannot be combined. A Deep Top Kit is required when ordering a Stock Picking Shelf Kit.

Find more information on Rolling Ladders on page 1034.

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Platform Width	Bottom Width	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
Standard Base										
Includes 2½ in Rubber Pads										
20 in	50 in	2	450 lb	10 in	16 in	20 in	24 in	20Z347	20Z343	20Z345
	50 in	2	450 lb	10 in	24 in	28 in	24 in	3FMD7	3FMD5	3FMD9
	50 in	2	450 lb	20 in	16 in	20 in	34 in	20Z348	20Z344	20Z346
	50 in	2	450 lb	20 in	24 in	28 in	34 in	20Z351	20Z349	20Z350
30 in	60 in	3	450 lb	10 in	16 in	20 in	30 in	20Z356	20Z352	20Z354
	60 in	3	450 lb	10 in	24 in	28 in	30 in	3UY30	4XM63	3FME1
	60 in	3	450 lb	20 in	16 in	20 in	41 in	20Z357	20Z353	20Z355
	60 in	3	450 lb	20 in	24 in	28 in	41 in	20Z360	20Z358	20Z359
40 in	70 in	4	450 lb	10 in	16 in	20 in	37 in	20Z365	20Z361	20Z363
	70 in	4	450 lb	10 in	24 in	28 in	37 in	3UY31	4XM66	3FME2
	70 in	4	450 lb	20 in	16 in	20 in	47 in	20Z366	20Z362	20Z364
	70 in	4	450 lb	20 in	24 in	28 in	47 in	20Z369	20Z367	20Z368
50 in	80 in	5	450 lb	10 in	16 in	20 in	43 in	20Z374	20Z370	20Z372
	80 in	5	450 lb	10 in	24 in	28 in	43 in	3FMD8 *	3FMD6 *	3FME3 *
	80 in	5	450 lb	20 in	16 in	20 in	53 in	20Z375	20Z371	20Z373
	80 in	5	450 lb	20 in	24 in	28 in	54 in	20Z378	20Z376	20Z377
Includes Removable Rear Chain										
20 in	50 in	2	450 lb	10 in	16 in	20 in	24 in	21VA53	21VA45	21VA49
	50 in	2	450 lb	10 in	24 in	28 in	24 in	21VA65	21VA57	21VA61
	50 in	2	450 lb	20 in	16 in	20 in	34 in	21VA55	21VA47	21VA51
	50 in	2	450 lb	20 in	24 in	28 in	34 in	21VA67	21VA59	21VA63
30 in	60 in	3	450 lb	10 in	16 in	20 in	31 in	21VC01	21VA92	21VA96
	60 in	3	450 lb	10 in	24 in	28 in	31 in	21VC13	21VC05	21VC09
	60 in	3	450 lb	20 in	16 in	20 in	41 in	21VC03	21VA94	21VA98
	60 in	3	450 lb	20 in	24 in	28 in	41 in	21VC15	21VC07	21VC11
40 in	70 in	4	450 lb	10 in	16 in	20 in	37 in	21VC93	21VC85	21VC89
	70 in	4	450 lb	10 in	24 in	28 in	37 in	21VD06	21VC97	21VD02
	70 in	4	450 lb	20 in	16 in	20 in	47 in	21VC95	21VC87	21VC91
	70 in	4	450 lb	20 in	24 in	28 in	47 in	21VD08	21VC99	21VD04
50 in	80 in	5	450 lb	10 in	16 in	20 in	43 in	21VD54	21VD46	21VD50
	80 in	5	450 lb	10 in	24 in	28 in	43 in	21VD66	21VD58	21VD62
	80 in	5	450 lb	20 in	16 in	20 in	53 in	21VD56	21VD48	21VD52
	80 in	5	450 lb	20 in	24 in	28 in	54 in	21VD68	21VD60	21VD64
Includes Removable Rear Safety Chain with Snap Hook										
50 in	80 in	5	450 lb	10 in	24 in	28 in	43 in	36LH58 †	—	—
Straddle Base										
Includes 2½ in Rubber Pads										
30 in	60 in	3	350 lb	20 in	24 in	28 in	41 in	3FME6	3FME4	3FME8
40 in	70 in	4	350 lb	20 in	24 in	28 in	47 in	3FME7	3FME5	3FME9
Includes Double Handrails										
50 in	80 in	5	350 lb	20 in	24 in	28 in	54 in	6MXV4 *	6MXV6 *	6MXV8 *
60 in	90 in	6	350 lb	20 in	24 in	28 in	60 in	6MXV5 *	6MXV7 *	6MXV9 *

** Ladders for use in California will be modified to comply with California OSHA Standards. † Safety Yellow color.*

3-Step Standard Base 20Z356

5-Step Straddle Base 6MXV6

Cotterman® Welded Steel Tilt-N-Roll Ladders

- 30"H handrails included
- Ship assembled
- 450-lb. load capacity (standard base); 350-lb. load capacity (straddle base)
- Gray
- 59° climbing angle
- No ladder actuation

Ladder rests solidly on four 2½" rubber pads when climbing. Easily moved by tilting back on 4" wheels with handrails. The balanced design won't allow ladder to scoot away or toward user.

Note: See Grainger.com® for Safety Yellow options.

Platform Height	Overall Height	No. of Steps	Load Capacity	Platform Depth	Platform Width	Bottom Width	Base Depth	SERRATED Item No.	EXPANDED METAL Item No.
Aluminum									
20 in	50 in	2	350 lb	10 in	16 in	20 in	24 in	20Z511	—
	50 in	2	350 lb	10 in	24 in	28 in	24 in	3FMH7	—
	50 in	2	350 lb	20 in	16 in	20 in	34 in	20Z515	—
	50 in	2	350 lb	20 in	24 in	28 in	34 in	20Z519	—
30 in	60 in	3	350 lb	10 in	16 in	20 in	30 in	20Z512	—
	60 in	3	350 lb	10 in	24 in	28 in	30 in	3FMH8	—
	60 in	3	350 lb	20 in	16 in	20 in	40 in	20Z516	—
	60 in	3	350 lb	20 in	24 in	28 in	40 in	20Z520	—
40 in	70 in	4	350 lb	10 in	16 in	20 in	37 in	20Z513	—
	70 in	4	350 lb	10 in	24 in	28 in	37 in	3FMH9	—
	70 in	4	350 lb	20 in	16 in	20 in	47 in	20Z517	—
	70 in	4	350 lb	20 in	24 in	28 in	47 in	20Z521	—
50 in	80 in	5	350 lb	10 in	16 in	20 in	43 in	20Z514	—
	80 in	5	350 lb	10 in	24 in	28 in	43 in	3FMJ1 *	—
	80 in	5	350 lb	20 in	16 in	20 in	54 in	20Z518 *	—
	80 in	5	350 lb	20 in	24 in	28 in	54 in	20Z522 *	—
Stainless Steel									
20 in	50 in	2	450 lb	10 in	24 in	28 in	24 in	20Z527	20Z523
30 in	60 in	3	450 lb	10 in	24 in	28 in	30 in	20Z528	20Z524
40 in	70 in	4	450 lb	10 in	24 in	28 in	37 in	20Z529	20Z525
50 in	80 in	5	450 lb	10 in	24 in	28 in	43 in	20Z530 *	20Z526 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*

3FMH9

20Z530

Cotterman® Welded Aluminum and 304 Stainless Steel Tilt-N-Roll Ladders

- 30"H handrails included
- Ship assembled
- 59° climbing angle

During climbing, each standard base ladder sits solidly on four 2½" rubber pads for greater stability. Easily moved by tilting back on 4" wheels with handrails. The balanced design won't allow ladder to scoot away or toward user.

Lock-N-Stock Steel Folding Ladders

- 22"H handrails included
- Ship assembled
- 350-lb. load capacity
- 7" platform depth
- 16" platform width
- 24" bottom width
- Blue
- Rear exit on 3KNK7 and 3KNK8
- 59° climbing angle
- No ladder actuation

Ladders are easy to climb, roll, fold, and store. Lock in folded or climbing positions. Easy-to-maneuver in open or closed position.

Platform Height	Overall Height	No. of Steps	Base Depth	PERFORATED Item No.
19 in	41 in	2	17 in	3KNK7
28 ½ in	50 ½ in	3	23 in	3KNK8
38 in	60 in	4	30 in	4UDL5

3KNK8

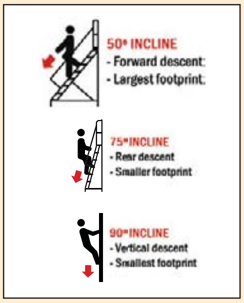
U-Design Configurable Platform Selection Guide

STEP 1

Select an Incline:

Crossover Platforms (CP) and Rooftop Platforms (RP) use 2 ladders paired together. Different inclines are acceptable.

Max-Access Platform Systems (MAPS) use 50° incline stair units/ladders.



STEP 2

Select a Ladder Height:

CP: Choose based on vertical clearance height need for application.

RP: Select a ladder with a height greater than the required height.

MAPS: For crossover applications, deduct 5" for clearance height.

STEP 3

Select a Span or Platform:

CP and RP: Combine 20" and 30" spans to create up to 90" of horizontal clearance. For spans over 90" (CP) or 120" (RP), use a leg kit.

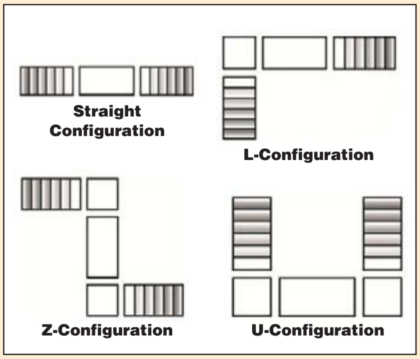
MAPS: Create platform configurations by combining 36" x 36" platforms. A tower support leg is required when 3 platform units are combined.

STEP 4

Select a Crossover Configuration or Support Legs:

CP and RP: Add turn platforms for configurations requiring a 90° turn including L-, Z-, or U-shaped crossovers.

MAPS: A tower support leg is required for each 50° stair unit/ladder.

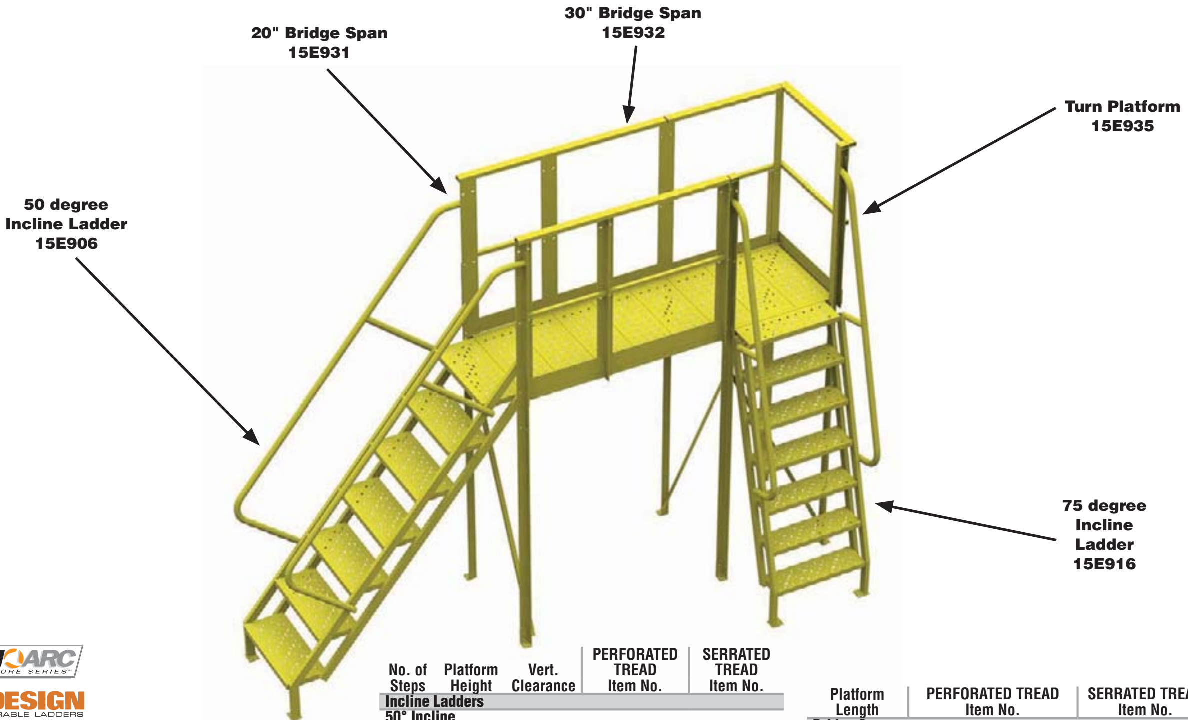


STEP 5

Select Platform Handrails:

MAPS: Add handrails to any side for fall protection. 5-step and larger ladders require handrails on all platform unit sides for code compliance.

A configurator tool is available at Grainger.tri-arc.com/GRconfigurator_login.html



TRI-ARC SIGNATURE SERIES
U-DESIGN CONFIGURABLE LADDERS

Configurable Crossover Platforms

- 1000-lb. load capacity
- 24"W steps
- Clearance height is 2" below platform height

Customize a crossover platform by choosing components based on environment and application requirements. Platforms require minimal assembly, include assembly hardware, and have foot plates for bolting to the floor. Rectangular tubing frame is 1" x 2" and tubing handrails are 1½" dia. Individual pieces are 30"W overall and guardrails are 42"H above platforms. Steel construction with yellow powder-coat finish. Meet OSHA Standards.

No. of Steps	Platform Height	Vert. Clearance	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Incline Ladders				
50° Incline				
3	30"	28 in	21Y491	21Y489
4	40"	38 in	21Y492	21Y490
5	50"	48 in	15E904	15E909
6	60"	58 in	15E905	15E910
7	70"	68 in	15E906	15E911
8	80"	78 in	15E907	15E912
9	90"	88 in	15E908	15E913
75° Incline				
3	30"	28 in	21Y495	21Y493
4	40"	38 in	21Y496	21Y494
5	50"	48 in	15E914	15E919
6	60"	58 in	15E915	15E920
7	70"	68 in	15E916	15E921
8	80"	78 in	15E917	15E922
9	90"	88 in	15E918	15E923
90° Incline				
3	30"	28 in	21Y497	—
4	40"	38 in	21Y498	—
5	50"	48 in	15E924	—
6	60"	58 in	15E925	—
7	70"	68 in	15E926	—
8	80"	78 in	15E927	—
9	90"	88 in	15E928	—

Platform Length	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Bridge Spans		
20 in	15E931	15E929
30 in	15E932	15E930

Equivalent No. of Steps	Platform Height	Platform Depth	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
Turn Platforms				
3-Step	30 in	30 ½ in	21Y502	21Y499
4-Step	40 in	30 ½ in	21Y503	21Y501
5-Step	50 in	30 ½ in	15E933	15E938
6-Step	60 in	30 ½ in	15E934	15E939
7-Step	70 in	30 ½ in	15E935	15E940
8-Step	80 in	30 ½ in	15E936	15E941
9-Step	90 in	30 ½ in	15E937	15E942

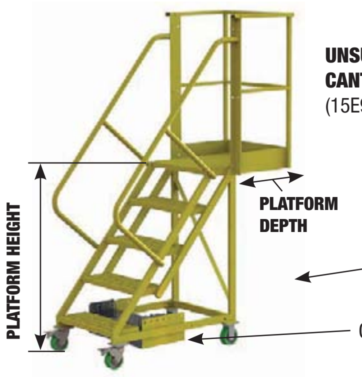
Description	Ladder Height	Item No.
Crossover Ladder Leg Kits		
3-Step Leg Kit	2 ft 6 in	21Y504
4-Step Leg Kit	3 ft 4 in	21Y505
5-Step Leg Kit	4 ft 2 in	15E943
6-Step Leg Kit	5 ft	15E944
7-Step Leg Kit	5 ft 10 in	15E945
8-Step Leg Kit	6 ft 8 in	15E946
9-Step Leg Kit	7 ft 6 in	15E947

Configurable Cantilevered Rolling Ladders

TRI-ARC SIGNATURE SERIES · U-DESIGN CONFIGURABLE LADDERS

- 300-lb. load rating
- Clearance height to floor is 2" less than platform height
- 50° climbing angle
- Unsupported and supported cantilever platforms are available in 20", 30" and 40" depths
- Meet OSHA and ANSI Standards

Design a customized cantilever platform by selecting a model based on environment and application requirements. 5" x 2" polyurethane swivel casters have total-lock brakes. Steps are 24"W. Unsupported models have 30"W overall width; supported models have 41" overall width. Guardrails are 42"H, rectangular tubing frame is 1" x 2", and tubing handrails are 1½" dia. Yellow powder-coat finish. Cantilever Ladder Support Conversion Kits convert unsupported cantilever to supported cantilever.



No. of Steps	Platform Height	Platform Depth	Base Depth	PERFORATED Item No.	SERRATED Item No.
Supported Cantilever					
5	50 in	20 in	64 in	**15E948**	**15E953**
	50 in	30 in	74 in	**15E958**	**15E963**
	50 in	40 in	84 in	**15E968**	**15E973**
6	60 in	20 in	72 in	**15E949**	**15E954**
	60 in	30 in	82 in	**15E959**	**15E964**
	60 in	40 in	92 in	**15E969**	**15E974**
7	70 in	20 in	81 in	**15E950**	**15E955**
	70 in	30 in	91 in	**15E960**	**15E965**
	70 in	40 in	101 in	**15E970**	**15E975**
8	80 in	20 in	89 in	**15E951**	**15E956**
	80 in	30 in	99 in	**15E961**	**15E966**
	80 in	40 in	109 in	**15E971**	**15E976**
9	90 in	20 in	97 in	**15E952**	**15E957**
	90 in	30 in	107 in	**15E962**	**15E967**
	90 in	40 in	117 in	**15E972**	**15E977**

No. of Steps	Platform Height	Platform Depth	Base Depth	PERFORATED Item No.	SERRATED Item No.
Unsupported Cantilever					
5	50 in	20 in	64 in	**15E978**	**15E983**
	50 in	30 in	74 in	**15E988**	**15E993**
	50 in	40 in	84 in	**15E998**	**15F004**
6	60 in	20 in	72 in	**15E979**	**15E984**
	60 in	30 in	82 in	**15E989**	**15E994**
	60 in	40 in	92 in	**15E999**	**15F005**
7	70 in	20 in	81 in	**15E980**	**15E985**
	70 in	30 in	91 in	**15E990**	**15E995**
	70 in	40 in	101 in	**15F001**	**15F006**
8	80 in	20 in	89 in	**15E981**	**15E986**
	80 in	30 in	99 in	**15E991**	**15E996**
	80 in	40 in	109 in	**15F002**	**15F007**
9	90 in	20 in	97 in	**15E982**	**15E987**
	90 in	30 in	107 in	**15E992**	**15E997**
	90 in	40 in	117 in	**15F003**	**15F008**

15F009

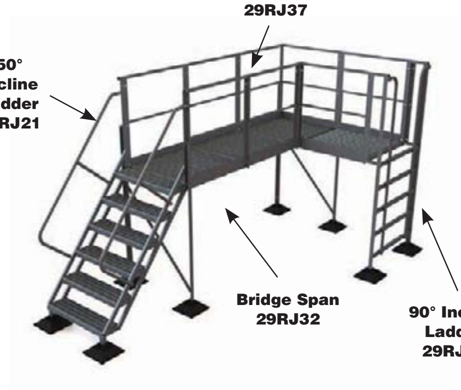
Description	Item No.
Cantilever Ladder Support Conversion Kits	
20" Cantilever Length	**15F009**
30" Cantilever Length	**15F010**
40" Cantilever Length	**15F011**

U-Design Configurable Rooftop Platforms

TRI-ARC SIGNATURE SERIES · U-DESIGN CONFIGURABLE LADDERS

- 500-lb. load rating
- Aluminum construction
- 1" x 2" rectangular tube construction
- Meet OSHA and ANSI Standards
- Grip strut tread

Easily create safe access over pipes and other rooftop obstacles. Special support feed distributes weight to prevent damage to roof membranes. Combine up to a total of 120" uninhibited span clearance length. A ladder support leg is required for spans greater than 120".



No. of Steps	Vert. Clearance	Overall Height	Top Step Height	Step Depth	Step Width	Item No.
50° Incline						
2	17 ½ in	62 in	20 in	9 ½ in	36 in	**29RJ17**
3	27 ½ in	72 in	30 in	9 ½ in	36 in	**29RJ18**
4	37 ½ in	82 in	40 in	9 ½ in	36 in	**29RJ19**
5	47 ½ in	92 in	50 in	9 ½ in	36 in	**29RJ20**
6	57 ½ in	102 in	60 in	9 ½ in	36 in	**29RJ21**
90° Incline						
2	17 ½ in	62 in	20 in	1 ⅝ in	24 in	**29RJ22**
3	27 ½ in	72 in	30 in	1 ⅝ in	24 in	**29RJ23**
4	37 ½ in	82 in	40 in	1 ⅝ in	24 in	**29RJ24**
5	47 ½ in	92 in	50 in	1 ⅝ in	24 in	**29RJ25**
6	57 ½ in	102 in	60 in	1 ⅝ in	24 in	**29RJ26**

Vert. Clearance	Overall Height	Platform Dim. H	Platform Dim. W	Platform Dim. L	Item No.
Turn Platforms					
17 ½ in	62 in	20 in	36 in	40 in	**29RJ33**
27 ½ in	72 in	30 in	36 in	40 in	**29RJ34**
37 ½ in	82 in	40 in	36 in	40 in	**29RJ35**
47 ½ in	92 in	50 in	36 in	40 in	**29RJ36**
57 ½ in	102 in	60 in	36 in	40 in	**29RJ37**
Bridge Span					
—	36 in	—	38 in	40 in	**29RJ32**

Description	Item No.
Support Legs	
For Use With 20' Platform Height Ladder	**29RJ27**
For Use With 30' Platform Height Ladder	**29RJ28**
For Use With 40' Platform Height Ladder	**29RJ29**
For Use With 50' Platform Height Ladder	**29RJ30**
For Use With 60' Platform Height Ladder	**29RJ31**
Bridge Span Enclosure	
Kit to Enclose Any Walkway Opening	**29RJ38**

TRI-ARC SIGNATURE SERIES · U-DESIGN CONFIGURABLE LADDERS

Configurable Multi-Platform Access Component Systems

- 500-lb. load capacity
- Aluminum construction
- Clearance height is 4" less than platform height
- Assembly hardware included
- ⅜" floor mounting hardware not included

Designed for use with stepladders or extension ladders. Meet OSHA and ANSI Standards.

Ladders—45° climbing angle. Steps are 24"W x 9½"D and include serrated step tread.

Ladder Handrails—Feature 36½" handrail height.

53JE71

53JE81

53JE92

No. of Steps	Overall Height	Overall Width	Item No.
Ladders			
1	18 in	29 in	**53JE68**
2	27 in	29 in	**53JE69**
3	36 in	29 in	**53JE70**
4	45 in	29 in	**53JE71**
5	54 in	29 in	**53JE72**
6	63 in	29 in	**53JE73**
7	72 in	29 in	**53JE74**
8	81 in	29 in	**53JE75**

For Use With	Item No.
Ladder Handrails	
1-Step Ladder	**53JE76**
2-Step Ladder	**53JE77**
3-Step Ladder	**53JE78**
4-Step Ladder	**53JE79**
5-Step Ladder	**53JE80**
6-Step Ladder	**53JE81**
7-Step Ladder	**53JE82**
8-Step Ladder	**53JE83**

Overall Height	Platform Width	Platform Length	Item No.
Platform Units			
4 in	30 in	30 in	**53JE92**
4 in	30 in	60 in	**53JE93**
4 in	30 in	120 in	**53JE94**

Description	Item No.
Platform Guardrails	
30 inL	**53JE95**
60 inL	**53JE96**

Description	Item No.
Platform Support Legs	
18 inH	**53JE84**
27 inH	**53JE85**
36 inH	**53JE86**
45 inH	**53JE87**
54 inH	**53JE88**
63 inH	**53JE89**
72 inH	**53JE90**
81 inH	**53JE91**

6-Step 20Z417

Cotterman® Easy 50® Steel Crossover Ladders

- 350-lb. load rating
- Meet OSHA and ANSI Standards
- 24"W Steps
- Grip strut tread
- Gray powder-coat finish

Portable and easily moved from place to place. Constructed of rugged 1-pc. welded steel. Feature rubber-tipped legs that hold the unit firmly while in use. 50° climbing angle.

Vert. Clearance	Span	Overall Dim. Height	Overall Dim. Span	Platform Dim. Height	Platform Dim. Depth	Item No.
3-Steps						
28 in	9 in	60 in	58 in	30 in	24 in	20Z407
28 in	23 ½ in	60 in	69 in	30 in	36 in	20Z408
28 in	32 ½ in	60 in	81 5/8 in	30 in	48 in	20Z409
4-Steps						
38 in	9 in	70 in	76 in	40 in	24 in	20Z410
38 in	23 ½ in	70 in	87 in	40 in	36 in	20Z411
38 in	32 ½ in	70 in	99 5/8 in	40 in	48 in	20Z412
5-Steps						
48 in	9 in	80 in	92 ¾ in	50 in	24 in	20Z413
48 in	23 ½ in	80 in	103 ¾ in	50 in	36 in	20Z414
48 in	32 ½ in	80 in	116 3/8 in	50 in	48 in	20Z415
48 in	46 ½ in	80 in	128 3/8 in	50 in	60 in	20Z416
6-Steps						
58 in	9 in	90 in	109 7/8 in	60 in	24 in	20Z417
58 in	23 ½ in	90 in	120 ¾ in	60 in	36 in	20Z418
58 in	32 ½ in	90 in	133 ½ in	60 in	48 in	20Z419
58 in	46 ½ in	90 in	145 ½ in	60 in	60 in	20Z420

Spacesaver Crossover Bridges

Cotterman®

4-Step 21VC70

- 500-lb. load rating
- 24"W and 5"D steps
- Serrated or diamond plate treads
- Gray powder-coat finish
- 70° climbing angle

These crossover bridges allow you to walk safely over high traffic areas, equipment, duct work, or other obstacles providing mobility and access to needed areas. Steeper 70° climbing angle provides a less overall footprint. Constructed of rugged welded aluminum or steel 4" toe boards and mounting holes on legs.

Vert. Clearance	Span	Overall Height	Overall Span	Platform Height	Platform Depth	ALUMINUM Serrated Item No.	ALUMINUM Diamond Plate Item No.	STEEL Serrated Item No.	STEEL Diamond Plate Item No.
4-Steps									
30 in	25 9/16 in	74 in	53 7/16 in	32 in	33 in	21VC70	21VC71	21VC74	21VC75
30 in	37 9/16 in	74 in	65 9/16 in	32 in	44 in	21VC72	21VC73	21VC76	21VC77
5-Steps									
38 in	25 9/16 in	82 in	59 ¼ in	40 in	33 in	21VD30	21VD31	21VD34	21VD35
38 in	37 9/16 in	82 in	65 9/16 in	40 in	44 in	21VD32	21VD33	21VD36	21VD37
6-Steps									
46 in	25 9/16 in	90 in	65 1/16 in	48 in	33 in	21VE23	21VE24	21VE27	21VE28
46 in	37 9/16 in	90 in	76 13/16 in	48 in	44 in	21VE25	21VE26	21VE29	21VE30
7-Steps									
54 in	25 9/16 in	98 in	70 15/16 in	56 in	33 in	21VE54	21VE55	21VE58	21VE59
54 in	37 9/16 in	98 in	82 5/8 in	56 in	44 in	21VE56	21VE57	21VE60	21VE61

Crossover Bridges

Cotterman® Easy 50®

5-Step 21VD22

- 500-lb. load rating
- Meet OSHA and ANSI Standards
- 24"W and 7"D steps
- Serrated or diamond plate treads
- Gray powder-coat finish
- 50° climbing angle

These ladders improve access over a variety of obstacles, creating walk surfaces over high traffic areas, danger zones, and equipment. 50° climbing angle. Constructed of rugged 1-pc. welded aluminum or steel.

Vert. Clearance	Span	Overall Height	Overall Span	Platform Height	Platform Depth	ALUMINUM Serrated Item No.	ALUMINUM Diamond Plate Item No.	STEEL Serrated Item No.	STEEL Diamond Plate Item No.
4-Steps									
30 in	24 7/8 in	74 in	77 ¾ in	32 in	37 in	21VC62	21VC63	21VC66	21VC67
30 in	36 5/8 in	74 in	89 ½ in	32 in	49 in	21VC64	21VC65	21VC68	21VC69
5-Steps									
38 in	24 7/8 in	82 in	91 3/16 in	40 in	37 in	21VD22	21VD23	21VD26	21VD27
38 in	36 5/8 in	82 in	102 15/16 in	40 in	49 in	21VD24	21VD25	21VD28	21VD29
6-Steps									
46 in	24 7/8 in	90 in	104 5/8 in	48 in	37 in	21VE15	21VE16	21VE19	21VE20
46 in	36 5/8 in	90 in	116 3/8 in	48 in	49 in	21VE17	21VE18	21VE21	21VE22
7-Steps									
54 in	24 7/8 in	98 in	118 1/16 in	56 in	37 in	21VE46	21VE47	21VE50	21VE51
54 in	36 5/8 in	98 in	129 13/16 in	56 in	49 in	21VE48	21VE49	21VE52	21VE53

Steel Cantilever Rolling Ladders

Ballymore Safety Ladders

31MD77

- 300-lb. load rating
- Gray powder-coat finish
- Counterweight included

Component-based ladders make it easy to replace damaged parts and save on freight charges. Feature 59° climbing angle, perforated treads, and 42" handrails. Meet or exceed ANSI 14.7 Standards.

No. of Steps	Overall Height	Platform Height	Bottom Width	Base Depth	Platform Depth 14 in Item No.	Platform Depth 28 in Item No.	Platform Depth 35 in Item No.	Platform Depth 42 in Item No.
6	102 in	60 in	32 in	46 in	31ME02	31ME03	31ME04	31ME05
7	112 in	70 in	32 in	52 in	31ME06	31ME07	31ME08	31ME09
8	122 in	80 in	32 in	58 in	31ME10	31ME11	31ME12	31ME13
9	129 in	90 in	32 in	65 in	—	—	—	31ME15
9	132 in	90 in	32 in	65 in	31ME14	—	31ME16	31ME17
10	142 in	100 in	32 in	71 in	31MD77	31MD78	31MD79	31MD80
11	152 in	110 in	32 in	77 in	31MD81	31MD82	31MD83	31MD84
12	162 in	120 in	32 in	84 in	31MD85	31MD86	31MD87	31MD88
13	172 in	130 in	40 in	90 in	31MD89	31MD90	31MD91	31MD92
14	182 in	140 in	40 in	96 in	31MD93	31MD94	31MD95	31MD96
15	192 in	150 in	40 in	103 in	31MD97	31MD98	31MD99	31ME01

4UDL6

Tank Top Lifts

Ballymore Safety Ladders

- 300-lb. load cap.
- 8" casters (2 swivel, 2 rigid)
- Gray powder-coat finish

Provides safe and easy access to tank trucks, railroad cars, and other cantilevered applications. 4UDL6 is adjustable and comes with a large-dia. cylinder. 8N969 is a fixed height.

Call Grainger to specify height when ordering.

Description	Platform Depth	Base Width	Base Depth	Mfr. Model	Item No.
Adjustable 9' to 13'	48 in	28"	60 in	TT-913	4UDL6
Fixed Height (Choose From 9' to 13 H')	48 in	28"	60 in	TT9-13F	8N969

5AB11

BILJAX Haulotte

Indoor Rolling Utility Work Platforms

- Yellow powder-coat finish
- Lightweight
- Can easily be set up and dismantled by one person
- Platform adjusts every 2" in height
- Roll from room to room without disassembling
- 5"-dia. casters with locking wheels

Pro-Jax® lightweight, all-steel scaffolds are designed for indoor use. Plywood deck platform has steel frame and supports. Casters are removable for use on stairs. Knurled rungs. Outrigger needed when increasing platform height. Ideal for electrical, painting, acoustical, and finishing work; window cleaning; sign installation and maintenance; building maintenance; and HVAC installation.

Note: Guardrails are required by OSHA on all platforms 10 ft. or higher.

L	W	Platform Height	Platform Length	Work Height	Load Capacity	For Use With	Item No.
6 ft.	29"	2 to 4 ft	72 in	10 ft 6 in	1,000 lb	—	**5AA99**
6 ft.	29"	2 to 6 ft	72 in	12 ft 6 in	1,000 lb	Guardrail	**5AB10**
6 ft.	29"	2 to 11 ft 6 in	72 in	18 ft	1,000 lb	Guardrail & Outriggers	**5AB11**
6 ft.	29"	2 to 17 ft	72 in	23 ft 6 in	1,000 lb	Guardrail & Outriggers	**5AB12**
Accessories							
Height Extension Kit, 39"H x 6 ft. L							**5AB13**
Height Extension Kit, 69"H x 6 ft. L							**5AB14**
Guard Rail Kit, 42"H x 6 ft. L							**5AB15**
Outrigger Kit, 18"H x 1.5 ft. L x 18"W							**5AB16**
Outrigger Kit, 24"H x 2 ft. L x 18"W							**5AB17**

5AA87

BILJAX Haulotte

Indoor/Outdoor Rolling Tower Work Platforms

- Yellow powder-coat finish
- Provide larger platform for multiple persons and materials
- Greater height capability than utility scaffolds
- Can accommodate longer length requirements
- 8"-dia. casters with locking wheels

Complete systems assemble quickly and easily; frames, braces, inserts, attachments, guardrails and workboards. High-strength steel tubing frames have coped and arc welded perimeter joints. Large, adjustable-height work platforms and easy-access guardrail system. Order accessories separately to reconfigure or expand existing tower systems.

L	D	Platform Height	Work Height	Load Capacity	For Use With	Item No.
7 ft.	60 in	2 to 11 ft	17 ft	2,000 lb	Guardrail	**5AB18**
7 ft.	60 in	2 to 16 ft	22 ft	2,000 lb	Guardrail & Outriggers	**5AA87**
7 ft.	60 in	2 to 21 ft	27 ft	2,000 lb	Guardrail & Outriggers	**5AA88**
10 ft.	60 in	2 to 11 ft	16 ft 10 in	2,000 lb	Guardrail	**45NU27**
10 ft.	60 in	2 to 16 ft	21 ft 11 in	2,000 lb	Guardrail & Outriggers	**45NU28**
10 ft.	60 in	2 to 21 ft	27 ft	2,000 lb	Guardrail & Outriggers	**45NU29**
Accessories						
Scaffold Frame, 5 ft W x 0 inL						**5AA89**
Scaffold Plank, 19 inW x 7 ft L						**5AA90**
Guard Rail, 5 ft L						**5AA91**
Guard Rail, 7 ft L						**5AA92**
Scaffold Toeboard, 6 inH						**5AA93**
Scaffold Crossbrace						**5AA94**
Scaffold Brace						**5AA95**
Scaffold Caster						**5AA96**
Scaffold Leveling Jack, 24 inH						**5AA97**
Scaffold Pigtail Pin						**5AA98**

Scaffold Towers

METALTECH®

- Towers meet OSHA, ANSI, and CSA requirements

Jobsite Series—Suitable and safe for all types of interior work and can be easily stackable up to 3 units high. Steel construction with yellow powder-coat finish. Include 5" casters for easy mobility.

Saferstack Contractor Series—Complete scaffold tower is 2 sections high with safety guardrails and platforms. Frames stack in 30% less space than regular models, interlock for safer storage and transport, and help prevent stacked frames from sliding. Constructed with steel, aluminum, and wood with a blue antislip, textured powder-coat finish. 38HT50 includes 4 leveling jacks.

L	W	Platform Height	Platform Length	Overall Height	Load Capacity	Item No.
Jobsite Series						
6 ft.	58½"	12 ft	75 in	14 ft 9 in	840 lb	**38HT48**
6 ft.	122"	18 ft	75 in	20 ft 5 in	733 lb	**38HT65**
74¾"	29¾"	Adjustable	74 ¾ in	6 ft 3 in	1,000 lb	**20TN25**
6 5/32 ft.	29 13/64"	6 ft	74 in	6 ft 6 in	1,000 lb	**38HT63**
Saferstack						
5 ft.	93½"	10 ft	84 in	14 ft 6 in	2,300 lb	**38HT52**
5¾ ft.	93½"	10 ft	84 in	14 ft	2,500 lb	**38HT50**
Accessories						
Jobsite Series						
Scaffold Caster						**20TN27**
Guard Rail						**20TN30**
Outrigger Kit						**20TN31**
Saferstack						
Scaffold Caster						**20TN20**
Scaffold Crossbrace						**20TN21**
Scaffold Coupling Pin						**20TN28**

38HT52

For more information on rolling ladders, see page 1034.

4ZY17

38HT59

4XN62

4XP22

Adjustable Rolling Platforms

STEEL

Werner—Lightweight portable scaffold sets up in seconds. Planks can be positioned at multiple levels. Scaffold rolls on 4 high-grade, mar-resistant locking neoprene wheels. Folds for storage. Meet OSHA and ANSI Standards.

MetalTech—Designed for indoor use, scaffold folds and stores easily. 38HT79, 38HT80 and 38HT59 meet OSHA, ANSI, and CSA Standards.

ALUMINUM

Werner—Lightweight and corrosion-resistant. Double-locking legs allow height adjustment up to 12". Base section includes wood-deck plank and 5" swivel lock casters. Towers include base section, upper and guard rail sections, toe boards, and outriggers. Meet OSHA and ANSI Standards.

Description	Height	Platform Width	Depth	Overall Height	Load Capacity	Brand	Item No.
Steel							
Rolling Scaffold	3 ft 8 in	46 in	17 in	4 ft	500 lb	Werner	**4ZY17**
Scaffold Tower	6 ft	72 in	29 in	6 ft 3 in	1,000 lb	Werner	**41D335**
Scaffold	3 ft 10 in	39 in	21 ½ in	3 ft 3 in	500 lb	Metaltech	**38HT67**
Scaffold Tower	4 ft	46 in	57 in	4 ft 3 in	500 lb	Metaltech	**38HT79**
Portable Scaffold	4 ft	50 in	20 ½ in	5 ft 3 in	750 lb	Metaltech	**38HT59**
Scaffold Tower	5 ft	48 in	57 in	6 ft 3 in	900 lb	Metaltech	**38HT80**
Aluminum							
Scaffold Tower Base	7 ft 6 in	72 in	29 in	7 ft 6 in	500 lb	Werner	**4XN62**
Scaffold Tower	12 ft 6 in	72 in	29 in	15 ft 6 in	5,000 lb	Werner	**4XP22**
Scaffold Tower	15 ft	72 in	29 in	18 ft 6 in	500 lb	Werner	**4XP23**

Platform 10H719 with Tool Tray 10H725 and Safety Hoist 10H724

Adjustable Rolling Steel Platforms

- Can be easily assembled by 1 person in about 5 min.
- Include four 5" locking casters
- Yellow color

Platform height manually adjusts from 2 ft. to 11 ft. (in 6" increments). Platforms come complete with outriggers, toeboards, and guardrails. Outriggers telescope out on all 4 corners for a better than 3:1 height-to-base ratio. Platforms meet OSHA, ANSI, and CSA requirements.

Order accessories separately to reconfigure or expand existing tower systems.

Height	Platform Width	Depth	Overall Height	Load Capacity	Item No.
Rolling Work Platforms					
24 in to 132 in	19 in	72 in	6 ft 6 in to 14 ft 8 in	550 lb	**10H719**
24 in to 132 in	19 in	96 in	6 ft 6 in to 14 ft 8 in	550 lb	**10H721**
24 in to 132 in	22 in	72 in	6 ft 6 in to 14 ft 8 in	800 lb	**29EZ42**
24 in to 132 in	22 in	96 in	6 ft 6 in to 14 ft 8 in	800 lb	**29EZ43**
Accessories					
Height Extension Kit, 78 inH x 6 ft L For Use With 10H719					**10H720**
Height Extension Kit, 78 inH x 8 ft L For Use With 10H721					**10H722**
Height Extension Kit, 72 inH x 6 ft L For Use With 29EZ42					**29EZ44**
Height Extension Kit, 96 inH x 8 ft L For Use With 29EZ43					**29EZ45**
Safety Hoist					**10H724**
Tool Tray, 52 inL x 9 inW					**10H725**
Safety Rail Storage Cradle For Use With 10H719 and 10H720					**10H728**

Cotterman® Truck/Trailer Access Ladder

- 800-lb. load rating

Offers easy entry to tractor trailers and cube vans where loading docks or bays are not available. Ladder can be easily moved on two 10"-dia. rear wheels. Features slip-resistant strut treads and 36"H handrails (42" in California) with removable snap hook chains. 50° climbing angle for easy descent. Meets OSHA and ANSI Standards.

No. of Steps	Platform Length	Platform Width	Step Width	Bottom Width	Base Depth	Item No.
5-Step	24 in	27 in	24 in	27 ½ in	69 in	**5FZE6**

Refrigerator Truck Rolling Access Platform

- Height adjusts in 4" increments

Provides fall protection during routine maintenance and inspection of refrigeration units on small- to medium-sized box trucks. 24"L x 120"W platform provides a comfortable and safe work surface. Serrated tread surface for slip resistance and drainage; ladders on both sides for dual access. Reinforced lifting points accommodate adjustability using standard engine puller and designated lifting point for using rope and bucket for bringing items from ground to platform.

Height	Platform Width	Depth	Overall Height	Load Capacity	Item No.
103 in to 115 in	24 in	130 in	12 to 13 ft	500 lb	**4RCT3**

All-Welded Steel Single-Sided Rolling Work Platforms

Cotterman® Easy 50®

- Assembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- Includes handrails (except for some 2-, 3- and 4-step platforms)

Accommodate two people. 50° climbing angle allows easy descent. Lock work platform on front rubber pads to prevent unwanted movement; release the lock to allow the ladder to roll on 4" casters; swivel in front, rigid in rear.

No. of Steps	Platform Height	Overall Height	Bottom Width	24 inD PLATFORM Item No.	36 inD PLATFORM Item No.	48 inD PLATFORM Item No.	60 inD PLATFORM Item No.	72 inD PLATFORM Item No.
24 in Step Width								
2	20 in	1 ft 8 in	28 in	4CRY7 †	20Z535 †	20Z536 †	20Z537	—
3	30 in	2 ft 6 in	28 in	20Z542 †	20Z543 †	20Z544 †	—	—
3	30 in	5 ft	28 in	4XM64	3FMG1	45CJ13	20Z545	45CJ09
4	40 in	3 ft 4 in	28 in	20Z550 *†	20Z551 *†	20Z552 *†	—	—
4	40 in	5 ft 10 in	28 in	4XM67	3FMG3	45CJ62	20Z553	45CJ36
5	50 in	7 ft 2 in	28 in	4XM69 *	3FMG5 *	20Z558 *	20Z559 *	45CH66 *
6	60 in	8 ft	28 in	3FMG7 *	3FMG8 *	20Z562 *	20Z563 *	45CJ58 *
7	70 in	8 ft 10 in	28 in	3FMH2 *	3FMH3 *	20Z566 *	20Z567 *	45CJ53 *
36 in Step Width								
2	20 in	1 ft 8 in	40 in	20Z538 †	20Z539 †	20Z540 †	—	—
2	20 in	4 ft 2 in	40 in	—	—	—	20Z541	—
3	30 in	2 ft 6 in	40 in	20Z546 †	20Z547 †	20Z548 †	—	—
3	30 in	5 ft	40 in	—	4XM65	3FMG2	20Z549	45CJ22
4	40 in	5 ft 10 in	40 in	20Z554	4XM68	3FMG4	20Z557	45CH69
5	50 in	7 ft 2 in	40 in	20Z560 *	4XM70 *	3FMG6 *	20Z561 *	45CH92 *
6	60 in	8 ft	40 in	20Z564 *	3FMG9 *	3FMH1 *	20Z565 *	45CJ11 *
7	70 in	8 ft 10 in	40 in	20Z568 *	3FMH4 *	3FMH5 *	20Z569 *	45CJ07 *

** Ladders for use in California will be modified to comply with California OSHA Standards. † No handrail or Steplock.*

3-Step
4XM64

Steel Single-Entry Work Platforms

Ballymore Safety Ladders

- Unassembled
- 800-lb. capacity
- Meet OSHA and ANSI Standards
- Powder-coat finish
- Base is a heavy-duty 2" x 1" rectangular tube

Feature self-cleaning slip-resistant serrated grating, pedal-activated lock-step, and 4" casters.

3-Step
20Y806

No. of Steps	Platform Height	Overall Height	Base W	36 inD PLATFORM Item No.	48 inD PLATFORM Item No.	60 inD PLATFORM Item No.	72 inD PLATFORM Item No.
24 inW Step							
Without Handrails							
3	30 in	2 ft 6 in	33 in	9WAT2	9W870	8VXV9	9W249
4	40 in	3 ft 4 in	33 in	9WKY9	8CW89	8XEC6	8CW90
With Handrails							
3	30 in	5 ft 9 in	33 in	9WEF4	—	—	—
4	40 in	6 ft 7 in	33 in	8E952	20Y807	20Y808	20Y809
5	50 in	7 ft 5 in	33 in	9F718	9NNG8	8UKG4	9PXU1
6	60 in	8 ft 3 in	33 in	8RLV5	9ME75	8PMG5	9FA73
7	70 in	9 ft 1 in	33 in	8CX06	8ULC9	9WX62	9DUE2
36 inW Step							
Without Handrails							
3	30 in	2 ft 6 in	38 in	8VXW0	9AEM3	9KC96	9F727
With Handrails							
3	30 in	5 ft 9 in	38 in	8E802	9P502	9P493	20Y806
4	40 in	6 ft 7 in	38 in	8Y349	9EZ98	9WF45	20Y810
5	50 in	7 ft 5 in	38 in	8CVM0	20Y812	20Y811	20Y813
6	60 in	8 ft 3 in	38 in	9TYV0	8TPE7	8CX05	8NE01
7	70 in	9 ft 1 in	38 in	8CX07	9PYU8	8CX08	9ME76

TRI ARC SIGNATURE SERIES™

Steel Single-Sided Heavy-Duty Safety Work Platforms

- Assembled
- 800-lb. capacity
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- 50° safety incline angle for comfortable easy descent
- Foot-activated lock-step on models with handrails
- Two 4" casters for easy transport on models without handrails
- Two 2.5"-dia. pads for stability on all models
- Serrated tread

No. of Steps	Platform Height	Overall Height	Base W	24 inD PLATFORM Item No.	35 inD PLATFORM Item No.	47 inD PLATFORM Item No.
24 inW Step						
Without Handrails						
2	20 in	1 ft 8 in	28 in	25NZ69	25NZ70	25NZ71
3	30 in	2 ft 6 in	28 in	25NZ74	25NZ75	25NZ76
4	40 in	3 ft 4 in	28 in	25NZ79	25NZ80	25NZ81
With Handrails						
2	20 in	4 ft 8 in	35 in	29RJ60	29RJ64	29RJ68
3	30 in	5 ft 6 in	35 in	29RJ61	29RJ65	29RJ69
4	40 in	6 ft 4 in	35 in	29RJ62	29RJ66	29RJ70
5	50 in	7 ft 2 in	35 in	29RJ63 *	29RJ67 *	29RJ71 *
36 inW Step						
Without Handrails						
2	20 in	1 ft 8 in	40 in	—	25NZ72	25NZ73
3	30 in	2 ft 6 in	40 in	—	25NZ77	25NZ78
4	40 in	3 ft 4 in	40 in	—	25NZ82	25NZ83
With Handrails						
2	20 in	4 ft 8 in	40 in	—	29RJ72	29RJ76
3	30 in	5 ft 6 in	40 in	—	29RJ73	29RJ77
4	40 in	6 ft 4 in	40 in	—	29RJ74	29RJ78
5	50 in	7 ft 2 in	40 in	—	29RJ75 *	29RJ79 *

** Ladders for use in California will be modified to comply with California OSHA Standards.*

3-Step
29RJ77

6-Step
20Z327

Cotterman®
All-Welded Dual-Access Steel Rolling Work Platforms

- Assembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish
- Include bolt-on handrails

Accommodate two people. Lock work platform on front rubber pads to prevent unwanted movement; release the lock to allow the ladder to roll on 4" casters; swivel in front, rigid in rear.

No. of Steps	Platform Height	Overall Height	Bottom Width	48 inD PLATFORM Item No.	60 inD PLATFORM Item No.	72 inD PLATFORM Item No.	84 inD PLATFORM Item No.
24 in Step Width							
3	30 in	5 ft 6 in	28 in	20Z303	20Z304	20Z305	20Z306
4	40 in	6 ft 4 in	28 in	20Z311	20Z312	20Z313	20Z314
5	50 in	7 ft 2 in	28 in	20Z319 *	20Z320 *	20Z321 *	20Z322 *
6	60 in	8 ft	28 in	20Z327 *	20Z328 *	20Z329 *	20Z330 *
7	70 in	8 ft 10 in	28 in	20Z335 *	20Z336 *	20Z337 *	20Z338 *
36 in Step Width							
3	30 in	5 ft 6 in	40 in	20Z307	20Z308	20Z309	20Z310
4	40 in	6 ft 4 in	40 in	20Z315	20Z316	20Z317	20Z318
5	50 in	7 ft 2 in	40 in	20Z323 *	20Z324 *	20Z325 *	20Z326 *
6	60 in	8 ft	40 in	20Z331 *	20Z332 *	20Z333 *	20Z334 *
7	70 in	8 ft 10 in	40 in	20Z339 *	20Z340 *	20Z341 *	20Z342 *

**Ladders for use in California will be modified to comply with California OSHA Standards.*

3-Step
9LE90

Double Entry Platforms

- Unassembled
- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray power-coat finish
- Base is a heavy-duty 2" x 1" rectangular tube

Accommodate two people with dual access. Easy-to-use foot pedal activated lock step helps prevent movement; releasing lock allows platform to roll on 4" casters. Platform and steps have slip-resistant serrated grating thread. Has 36"H handrails and midrail for added safety.

No. of Steps	Platform Height	Overall Height	Bottom Width	36 inD PLATFORM Item No.	48 inD PLATFORM Item No.	60 inD PLATFORM Item No.	72 inD PLATFORM Item No.
24 in Step Width							
3	30 in	5 ft 6 in	33 in	9LE90	8CRL2	9LE91	8PLE0
5	50 in	7 ft 2 in	33 in	8CR20	8CR21	9E345	9KAT1
6	60 in	8 ft	33 in	8CR22	9LF73	8CWZ6	9HU67
7	70 in	8 ft 10 in	33 in	9ADR2	8CWZ8	9HU68	8RLV2
36 in Step Width							
3	30 in	5 ft 6 in	38 in	8ZD44	8CR16	8CR17	8CR18
4	40 in	6 ft 4 in	38 in	9E344	9LE86	8CR19	9UDM2
5	50 in	7 ft 2 in	38 in	9E346	8YCF0	8ND38	8XDC4
6	60 in	8 ft	38 in	9DUE1	9F933	8VY90	8CWZ7
7	70 in	8 ft 10 in	38 in	9RYP4	9NP35	8CWZ9	9ADR4

1-Step

2-Step

Adjustable-Height Steel Work Platforms

Cotterman®

- 800-lb. load rating
- Meet OSHA and ANSI Standards
- Gray powder-coat finish

Achieve a comfortable working height and eliminate unnecessary reaching. Legs adjust individually to accommodate uneven floors or obstructions. Grip strut. Open grid platform and tread allow liquids to drain quickly. For oily, wet, or outdoor environments.

1-Step—Create larger elevated work areas by placing them side-by-side or end-to-end. 6" to 9" and 10" to 15" have 2½" rubber pads on all four legs.

2-Step—Adjusting device keeps the step rise equal when platform height adjustment is made. Ship fully assembled.

Platform Depth	Platform Width	Bottom Width	Base Depth	5 in to 8 inH PLATFORM Item No.	6 in to 9 inH PLATFORM Item No.	9 in to 14 inH PLATFORM Item No.	10 in to 15 inH PLATFORM Item No.	13 in to 21 inH PLATFORM Item No.
1-Step								
24 in	24 in	24 in	24 in	6MXW0	6MXX0	3UU93	6MXX6	—
36 in	24 in	24 in	36 in	3UU92	6MXX1	6MXW5	6MXX7	—
48 in	24 in	24 in	48 in	6MXW1	6MXX2	6MXW6	6MXX8	—
60 in	24 in	24 in	60 in	6MXW2	6MXX3	6MXW7	6MXX9	—
72 in	24 in	24 in	72 in	6MXW3	6MXX4	6MXW8	6MXY0	—
96 in	24 in	24 in	96 in	6MXW4	6MXX5	6MXW9	6MXY1	—
2-Step								
24 in	24 in	23 in	23 in	—	—	—	—	3FMH6
36 in	36 in	12 in	36 in	—	—	—	—	3UU94

22N967

Cotterman®
Adjustable Work Stands with ErgoMat Deck

- 800-lb. load rating
- Durable, powder-coat finish

Platforms adjust to the desired working height and can be placed side-by-side or end-to-end for a larger standing area. Ergonomic matting reduces fatigue and provides additional comfort when standing for long periods of time. Adjustable legs accommodate uneven floors.

Platform Width	Platform Depth	No. of Legs	ALUMINUM Item No.	STEEL Item No.	STAINLESS STEEL Item No.
5 in to 8 in Platform Height					
19 in	24 in	4	22N967	22N976	22N985
	36 in	4	22N968	22N977	22N986
	48 in	4	22N969	22N978	22N987
24 in	24 in	4	22N970	22N979	22N988
	36 in	4	22N971	22N980	22N989
	48 in	4	22N972	22N981	22N990
	60 in	6	22N973	22N982	22N991
	72 in	6	22N974	22N983	22N992
	96 in	6	22N975	22N984	22N993
9 in to 14 in Platform Height					
19 in	24 in	4	22N994	22P004	22P013
	36 in	4	22N995	22P005	22P014
	48 in	4	22N996	22P006	22P015
24 in	24 in	4	22N997	22P007	22P016
	36 in	4	22N998	22P008	22P017
	48 in	4	22N999	22P009	22P018
	60 in	6	22P001	22P010	22P019
	72 in	6	22P002	22P011	22P020
	96 in	6	22P003	22P012	22P021

Steel Rolling Steps

Cotterman®

- 450-lb. load rating
- 16"W x 7"D step
- 16"W x 10"D platform
- Gray powder-coat finish

Feature all swivel spring-loaded casters that lift the ladder off the floor when stepping off. Meet OSHA and ANSI Standards.

No. of Steps	Top Step Height	Overall Height	Bottom Width	Base Depth	PERFORATED Item No.	EXPANDED METAL Item No.	SERRATED Item No.
1	10 in	10 in	24 in	16 in	—	8DPJ9	—
1	10 in	12 in	16 in	19 in	45CJ14	—	—
1	12 in	12 in	16 in	16 in	—	8W486	—
2	20 in	20 in	24 in	19 in	45CH42	8EDA5	—
2	20 in	20 in	16 in	19 in	3UY10	4XM23	4XM24
3	30 in	30 in	16 in	26 in	3UY11	4XM25	4XM26
3	30 in	30 in	24 in	27 in	45CJ19	—	—
3	30 in	30 in	30 in	30 in	—	9NVT7	8XAR7
4	40 in	40 in	24 in	31 in	—	8EG89	9NKH9
4	40 in	40 in	16 in	31 in	45CH97	9AM30	8RKL4

3-Step, 3UY11

Cotterman® All-Welded Steel Steps

- Working height 7 to 8 ft.
- 500-lb. load rating
- 45° climbing angle
- Serrated tread
- Gray powder-coat finish
- Meet OSHA and ANSI Standards

No. of Steps	Overall Height	Bottom Width	Base Depth	Item No.
3	30 in	34 in	34 in	20Z503

Cotterman® All-Welded Aluminum Stationary Steps

- Working height 6- to 8-ft.
- 500-lb. load rating
- 45° climbing angle
- Serrated tread
- Meet OSHA and ANSI Standards

No. of Steps	Overall Height	Bottom Width	Base Depth	Item No.
1	10 in	33 in	17 in	20Z504

20Z277

12M638

Cotterman® Mobile Steel Rolling Platforms

- Working height 6 ft.
- 16"L x 10"D antislip platform
- Ship assembled

Features all-swivel, spring-loaded casters that lift the ladder off the floor when stepping off. 16"W x 10"D solid steel platform with three antislip treads. 20Z277 meets OSHA and ANSI Standards.

Top Step Height	Bottom Width	Base Depth	Load Capacity	Tread	Color	Brand	Item No.
12 in	18 ½ in	18 in	450 lb	Abrasive Mat	Gray	Cotterman	20Z277
13 in	17 in	20 in	300 lb	Rubber Mat	Blue	—	12M638

22P022

Steel Fold-Up Steps

Cotterman®

- 350-lb. load rating
- Gray powder-coat finish

Mount easily and allow a quick step up in small, confined areas. Easily fold into a vertical position when not in use. Include two 9⁄16" mounting holes, fasteners not included.

Description	Overall Width	Overall Length	Item No.
Manual Fold-Up Step	10 ¾ in	15 in	22P022
Spring Loaded Fold-Up Step	10 ¾ in	15 in	22P023

Plastic Step Stands

DPI

- 500-lb. load rating

Features polyethylene construction. Lightweight stands are durable and easy to move.

No. of Steps	Top Step Height	Bottom Width	Base Depth	►CHOOSE: Color	Item No.
Approved Vendor					
1	12 in	20 ¾ in	14 ¾ in	Gray, Green, Yellow	J2239
2	19 ¾ in	22 ¾ in	26 in	Gray, Green, Yellow	J2237
3	28 ¾ in	23 in	35 ¼ in	Gray, Green, Yellow	J2238
DPI					
1	11 ½ in	19 ½ in	13 ¾ in	Black, Gray, Yellow	J4023
2	19 ¼ in	21 in	23 ¾ in	Black, Gray, Yellow	J4024
2	24 in	25 in	25 ¾ in	Yellow	403U24
3	29 ¼ in	21 in	33 ½ in	Black, Gray, Yellow	J4025
4	38 ½ in	21 ½ in	42 ½ in	Yellow	J4026 *

For Use With Grainger Item Number	Includes	Brand	Item No.
Rubber Pad			
J2239, J2237, J2238	(4) Foot Pads	—	45EA66

** Includes handrails.*

J4026

J2239

Scan. Order. Done.
Details on page A1.

2-Step, No Handrails F2125

4-Step, Double Handrails F2130

Office Ladders

Cotterman®

- 450-lb. load rating
- 8"D steps, 8" or 14"D top step
- Molded polyurethane on polyolefin casters with Delrin bearings
- Powder-coat finish

1-pc. welded construction of 1" square tubes. Solid steel steps with black rubber tread matting. Roll easily on four 2" spring-loaded casters protected by caster cup housings. 1- to 5-step models without handrails ship fully assembled; 2- to 6-step models with handrails require assembly. Meet OSHA and ANSI Standards.

No. of Steps	Platform Height	Step Width	Bottom Width	Base Depth	▶CHOOSE: Color	DOUBLE HANDRAILS Overall Height	DOUBLE HANDRAILS Item No.	LEFT HANDRAIL Overall Height	LEFT HANDRAIL Item No.	RIGHT HANDRAIL Overall Height	RIGHT HANDRAIL Item No.	NO HANDRAILS Overall Height	NO HANDRAILS Item No.
8 in Platform Depth													
2	18 in	16 in	22 in	20 in	Black, Blue, Brown, Gray, Red	48 in	**F2126**	48 in	**D5249**	48 in	**D5254**	—	—
2	18"	16 in	22 in	20 in	Gray, Red	—	—	—	—	—	—	22 in	**F2125**
3	27 in	16 in	24 in	27 in	Black, Blue, Brown, Gray, Red	57 in	**F2128**	57 in	**D5251**	57 in	**D5255**	—	—
3	27"	16 in	24 in	27 in	Gray	—	—	—	—	—	—	31 in	**F2127**
4	36 in	16 in	25 in	34 in		66 in	**F2130**	66 in	**D5252**	66 in	**D5256**	40 in	**F2129**
5	45 in	16 in	26 in	40 in	Black, Blue, Brown, Gray, Red	75 in	**F2132**	75 in	**D5253**	75 in	**D5257**	49 in	**F2131**
6	54 in	16 in	27 in	48 in		84 in	**D5248** *	—	—	—	—	—	—
14 in Platform Depth													
2	18 in	16 in	22 in	26 in	Black, Blue, Brown, Gray, Red	48 in	**D5264**	48 in	**D5269**	48 in	**D5274**	—	—
2	18"	16 in	22 in	26 in	Red	—	—	—	—	—	—	22 in	**D5259**
3	27"	16 in	24 in	32 in	Blue, Gray, Red	—	—	—	—	—	—	31 in	**D5261**
3	27 in	16 in	24 in	32 in		57 in	**D5265**	57 in	**D5271**	57 in	**D5275**	—	—
4	36 in	16 in	25 in	39 in	Black, Blue, Brown, Gray, Red	66 in	**D5266**	66 in	**D5272** †	66 in	**D5276** †	40 in	**D5262** †
5	45 in	16 in	26 in	46 in		75 in	**D5267**	75 in	**D5273** †	75 in	**D5277** †	49 in	**D5263** †
6	54 in	16 in	27 in	53 in		84 in	**D5268** *	—	—	—	—	—	—

** Ladders for use in California will be modified to California Standards. † Not for use in California.*

46C355

Cotterman®
StockNStore Ladders

- 350-lb. load rating
- 16"W x 7"D step with 10"D top step
- Roll in collapsed or set-up positions

Ladders open smoothly during the transition from rolling to setting down on rubber feet. Include a cable-release system for weight-activated hinges with no pinch points. Hinges automatically lock in place. For use where space is limited but quick access to elevated areas is required.

No. of Steps	Platform Height	Overall Height	Bottom Width	PERFORATED TREAD Item No.	SERRATED TREAD Item No.	ANTISLIP VINYL TREAD Item No.
Powder-Coat Steel						
2	20 in	50 in	20 in	**46C346**	**46C352**	**46C349**
3	30 in	60 in	20 in	**46C347**	**46C353**	**46C350**
4	40 in	70 in	20 in	**46C348**	**46C354**	**46C351**
Aluminum						
2	20 in	50 in	20 in	**46C355**	**46C361**	**46C358**
3	30 in	60 in	20 in	**46C356**	**46C362**	**46C359**
4	40 in	70 in	20 in	**46C357**	**46C363**	**46C360**

2-Step 4RCT4

TRI-ARC SIGNATURE SERIES

Folding Ladder Stands

- 350-lb. load rating
- 16"W x 7"D step with 10"D top step
- Powder-coat finish

Combine the utility of a mobile rolling ladder with the convenience of a folding step stand. Able to roll while in closed or set-up positions. Fold for easy storage. Meet OSHA and ANSI Standards.

No. of Steps	Platform Height	Overall Height	Bottom Width	Base Depth	PERFORATED TREAD Item No.
2	20 in	44 in	21 in	20 in	**4RCT4**
3	30 in	54 in	21 in	27 in	**4RCT5**
4	40 in	64 in	21 in	34 in	**4RCT6**

4ZY18

WERNER LOUISVILLE LADDER

Fold-Up Work Platforms

Provide a workspace along walls and windows. Nonskid surface with slip-resistant rubber feet protect floors. Easily set up and fold for storage. 4ZY18 meets ANSI and OSHA Standards.

Platform Depth	Platform Height	Platform Width	Load Capacity	Brand	Item No.
Aluminum					
39 ½ in	20 9⁄16 in	12 in	225 lb	Werner	**4ZY18**
Fiberglass					
36 in	21 in	12 in	300 lb	Louisville	**33J771**

Base Level with Add-On Level and Rubber Matting with Yellow Border

SPC INDUSTRIAL

Add-A-Level Work Platforms

Allow work areas to be customized to correct height and width. Additional matting can be added-on to top level. Lightweight, recycled plastic material resists rust, oils, grease, most acids, and chemicals. Open grid, flow-through pattern for decontamination environments.

Bottom Width	Base Depth	Overall Height	Item No.
Base Levels			
24 in	36 in	2⅞ in	**1DPC9**
24 in	48 in	2⅞ in	**2KUW1**
24 in	66 in	2⅞ in	**1DPD3**
24 in	96 in	2⅞ in	**2KUW3**
36 in	36 in	2⅞ in	**4RNR5**
36 in	66 in	2⅞ in	**4RNR7**
36 in	96 in	2⅞ in	**1DPD4**
Add-On Levels			
24 in	36 in	2⅝ in	**1DPD1**
24 in	48 in	2⅝ in	**2KUW2**
24 in	66 in	2⅝ in	**1DPD2**
24 in	96 in	2⅝ in	**2KUW4**
36 in	36 in	2⅝ in	**4RNR6**
36 in	66 in	2⅝ in	**4RNR8**
36 in	96 in	2⅝ in	**1DPD5**

Width	Length	Overall Height	Item No.
Rubber Matting with Yellow Border			
24 in	36 in	⅞ in	**459W20**
24 in	48 in	⅞ in	**459W22**
24 in	66 in	⅞ in	**459W24**
24 in	96 in	⅞ in	**459W26**
36 in	36 in	⅞ in	**459W28**
36 in	66 in	⅞ in	**459W30**
Rubber Matting without Border			
24 in	48 in	⅞ in	**459W21**
24 in	66 in	⅞ in	**459W23**
24 in	96 in	⅞ in	**459W25**
36 in	36 in	⅞ in	**459W27**
36 in	66 in	⅞ in	**459W29**
36 in	96 in	⅞ in	**459W31**
Poly-Clip Horizontal Connectors			
			4DB39

Middle
4EU25

Top
5FZE5

Cotterman®
Welded-Steel Safety Cages

- Gray powder-coat paint finish
- Meet or exceed OSHA Standards

SAFETY CAGES

Modular cages help make existing fixed ladder OSHA compliant. Cages mount to the side rails of fixed ladders up to 20"W. Top and middle sections have a 29" I.D.; bottom section flares to a 34" I.D. for easy entry. Include mounting hardware for flat or angle side rails.

To determine proper length, the cage should begin 7 ft. to 8 ft. from the floor and extend 42" above the landing surface (except for hatchways). Use this figure to build a combination of one bottom section, plus middle section and top sections for ladders with 42" extend handrails.

LADDER GUARD

For use with 20"W fixed steel ladders.

Section	Overall Height	Item No.
Safety Cages		
Top	5 ft	**5FZE5**
Middle	2 ft	**4EU26**
Middle	3 ft	**4EU27**
Middle	4 ft	**4EU28**
Middle	7 ft	**4EU25**
Bottom	4 ft	**4EU29**
Ladder Guard		
—	6 ft.	**487V32**

Cotterman®
Fixed Welded-Steel Ladders with Safety Cages

- 300-lb. capacity
- Gray powder-coat paint finish
- Provide step-off points from 13 ft. to 29 ft.

Allow solid climbing and safer landing access. Safety cages come welded to ladder for quick-and-easy assembly. Cages and walk-thru handrails extend 42" above landing surface for easier access. Cage begins 7 ft. from bottom of the ladder and has flared bottom opening for easy entry. Ideal for raised platforms and roofs. Meet or exceed OSHA and ANSI standards.

4EU21

20Z509

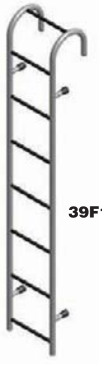
Top Step Height	WITH WALK-THRU Overall Height	Item No.	WITHOUT WALK-THRU Overall Height	Item No.	WITHOUT WALK-THRU, RIGHT EXIT Overall Height	Item No.	WITHOUT WALK-THRU, LEFT EXIT Overall Height	Item No.
12 ft	15 ft 8 in	**4EU21**	12 ft 3 in	**4EU35**	12 ft 3 in	**6MXP8**	12 ft 3 in	**6MXT6**
13 ft	16 ft 8 in	**5FZD6**	13 ft 3 in	**6MXN3**	13 ft 3 in	**6MXP9**	13 ft 3 in	**6MXT7**
14 ft	17 ft 8 in	**1TGX2**	14 ft 3 in	**6MXN4**	14 ft 3 in	**6MXR0**	14 ft 3 in	**6MXT8**
15 ft	18 ft 8 in	**5FZD7**	15 ft 3 in	**6MXN5**	15 ft 3 in	**6MXR1**	15 ft 3 in	**6MXT9**
16 ft	19 ft 8 in	**4EU22**	16 ft 3 in	**4EU36**	16 ft 3 in	**6MXR2**	16 ft 3 in	**6MXU0**
17 ft	20 ft 8 in	**5FZD8**	17 ft 3 in	**6MXN6**	17 ft 3 in	**6MXR3**	17 ft 3 in	**6MXU1**
18 ft	21 ft 8 in	**1TGX3**	18 ft 3 in	**6MXN7**	18 ft 3 in	**6MXR4**	18 ft 3 in	**6MXU2**
19 ft	22 ft 8 in	**5FZD9**	19 ft 3 in	**6MXN8**	19 ft 3 in	**6MXR5**	19 ft 3 in	**6MXU3**
20 ft	23 ft 8 in	**4EU23**	20 ft 3 in	**4EU37**	20 ft 3 in	**6MXR6**	20 ft 3 in	**6MXU4**
21 ft	24 ft 8 in	**5FZE0**	21 ft 3 in	**6MXN9**	21 ft 3 in	**6MXR7**	21 ft 3 in	**6MXU5**
22 ft	25 ft 8 in	**1TGX4**	22 ft 3 in	**6MXP0**	22 ft 3 in	**6MXR8**	22 ft 3 in	**6MXU6**
23 ft	26 ft 8 in	**5FZE1**	23 ft 3 in	**6MXP1**	23 ft 3 in	**6MXR9**	23 ft 3 in	**6MXU7**
24 ft	27 ft 8 in	**1TGX5**	24 ft 3 in	**6MXP2**	24 ft 3 in	**6MXT0**	24 ft 3 in	**6MXU8**
25 ft	28 ft 8 in	**5FZE2**	25 ft 3 in	**6MXP3**	25 ft 3 in	**6MXT1**	25 ft 3 in	**6MXU9**
26 ft	29 ft 8 in	**1TGX6**	26 ft 3 in	**6MXP4**	26 ft 3 in	**6MXT2**	26 ft 3 in	**6MXV0**
27 ft	30 ft 8 in	**5FZE3**	27 ft 3 in	**6MXP5**	27 ft 3 in	**6MXT3**	27 ft 3 in	**6MXV1**
28 ft	31 ft 8 in	**1TGX7**	28 ft 3 in	**6MXP6**	28 ft 3 in	**6MXT4**	28 ft 3 in	**6MXV2**
29 ft	32 ft 8 in	**5FZE4**	29 ft 3 in	**6MXP7**	29 ft 3 in	**6MXT5**	29 ft 3 in	**6MXV3**

	Overall Height	Item No.	Overall Height	Item No.
Right Entry Standoff Landing Platform	6 ft 7 in	**20Z509**		
Left Entry Standoff Landing Platform			6 ft 7 in	**20Z510**

Cotterman®
Storage Tank Access Ladders

Ladder tops hook to the top edge of a tank to allow user portable access to the inside of storage tanks and vessels. They are constructed of welded steel with durable gray powder-coat paint finish and rubber-tipped legs.

Top to Bottom Rung	Item No.
6 ft	**39F194**
7 ft	**39F195**
8 ft	**39F196**
9 ft	**39F197**
10 ft	**39F198**
11 ft	**39F199**
12 ft	**39F201**
13 ft	**39F202**
14 ft	**39F203**
15 ft	**39F204**



39F194

TRI-ARC SIGNATURE SERIES

Industrial Access Stair Units

- 450-lb. load capacity
- Gray powder-coat finish
- 24"W steps
- 26.5" base width
- 1" x 2" rectangular frame
- 1.5" round tubular handrails

45° incline allows comfortable, easy descent. Punched flange and floor plates for mounting. Meet OSHA and ANSI Standards.

Perforated
420R80

No. of Steps	Overall Height	Base Depth	Top Step Height	PERFORATED TREAD Item No.	SERRATED TREAD Item No.
6	95 in	58 in	57 in	**420R78**	**420R85**
7	104 ½ in	67 ½ in	66 ½ in	**420R79**	**420R86**
8	114 in	77 in	76 in	**420R80**	**420R87**
9	123 ½ in	86 ½ in	85 ½ in	**420R81**	**420R88**
10	133 in	96 in	95 in	**420R82**	**420R89**
11	142 ½ in	105 ½ in	104 ½ in	**420R83**	**420R90**
12	152 in	115 in	114 in	**420R84**	**420R91**

Fixed Welded-Steel and Aluminum Ladders

Cotterman® TRI-ARC SIGNATURE SERIES

- 300-lb. capacity
- Steel ladders have a gray powder-coat paint finish

Heavy-duty, 1-pc. welded ladders enable solid climbing and safer landing access to heights less than 20 ft. Rungs are spaced on 12" centers. Use for vertical access to raised platforms, roofs, or hatchway openings. Meet or exceed OSHA and ANSI Standards.

Top Step Height	Overall Height	No. of Steps	Step Width	Brand	Item No.
Steel					
9 ft	9 ft	10	18 in	Tri-Arc	**25NZ25**
11 ft	11 ft	12	18 in	Tri-Arc	**25NZ27**
13 ft	13 ft	14	18 in	Tri-Arc	**25NZ29**
Walk-Thru Handrails					
2 ft	6 ft	3	24 in	Cotterman	**4XM76**
3 ft	7 ft	4	24 in	Cotterman	**4XM77**
4 ft	8 ft	5	24 in	Cotterman	**4XM78**
8 ft	11 ft 8 in	9	16 in	Cotterman	**4EU16**
9 ft	12 ft 8 in	10	16 in	Cotterman	**5FZD0**
10 ft	13 ft 8 in	11	16 in	Cotterman	**4EU17**
11 ft	14 ft 8 in	12	16 in	Cotterman	**5FZD1**
12 ft	15 ft 8 in	13	16 in	Cotterman	**4EU18**
13 ft	16 ft 8 in	14	16 in	Cotterman	**5FZD2**
14 ft	17 ft 8 in	15	16 in	Cotterman	**4EU19**
15 ft	18 ft 8 in	16	16 in	Cotterman	**5FZD3**
16 ft	19 ft 8 in	17	16 in	Cotterman	**1TGX8**
17 ft	20 ft 8 in	18	16 in	Cotterman	**5FZD4**
18 ft	21 ft 8 in	19	16 in	Cotterman	**1TGX9**
19 ft	22 ft 8 in	20	16 in	Cotterman	**5FZD5**
Without Walk-Thru Handrails					
8 ft	8 ft 3 in	9	16 in	Cotterman	**4EU30**
9 ft	9 ft 3 in	10	16 in	Cotterman	**5FZC4**
10 ft	10 ft 3 in	11	16 in	Cotterman	**4EU31**
11 ft	11 ft 3 in	12	16 in	Cotterman	**5FZC5**
12 ft	12 ft 3 in	13	16 in	Cotterman	**4EU32**
13 ft	13 ft 3 in	14	16 in	Cotterman	**5FZC6**
14 ft	14 ft 3 in	15	16 in	Cotterman	**4EU33**
15 ft	15 ft 3 in	16	16 in	Cotterman	**5FZC7**
16 ft	16 ft 3 in	17	16 in	Cotterman	**1TGY1**
17 ft	17 ft 3 in	18	16 in	Cotterman	**5FZC8**
18 ft	18 ft 3 in	19	16 in	Cotterman	**1TGY2**
19 ft	19 ft 3 in	20	16 in	Cotterman	**5FZC9**
Aluminum					
Walk-Thru Handrails					
2 ft	6 ft	3	18 in	Tri-Arc	**3NUU9**
3 ft	7 ft	4	18 in	Tri-Arc	**3NUV1**
4 ft	8 ft	5	18 in	Tri-Arc	**3NUV2**
Without Walk-Thru Handrails					
9 ft	10 ft 2 in	10	18 in	Tri-Arc	**3NUU6**
11 ft	12 ft 2 in	12	18 in	Tri-Arc	**3NUU7**
13 ft	14 ft 2 in	14	18 in	Tri-Arc	**3NUU8**

Steel With Walk-Thru Handrails

How to Choose What Service Classification You Need

WEIGHT CAPACITY	INPUT VOLTAGE	LIFT SPEED	CHAIN LENGTH (Lift)	LOAD MOVEMENT	NUMBER OF LIFTS	START/STOPS	OPERATING TIME
Determine the max. weight you need to lift. (include lifting, supporting, and positioning devices).	What is the nominal voltage (±10% of rated voltage) in your facility? Single-Phase 115 or 230V 3-Phase 208, 230, or 460V.	What speed do you want to lift the load? Industry standard for ⅛ to 1 ton is 16 ft./min. (fpm). 2 ton is 8 fpm. For flexibility consider a variable-speed lift.	Measure from the point of mount to the floor.	What is the actual distance the load must be lifted and lowered?	Determine the number of lifts per hour for the job.	How many times does an operator activate the push-button control? Rule of thumb: 8 start/stops per cycle (load lift and lower).	Hoists have a "Service Classification" rating. To determine this classification for your job, use the following calculation: Minutes Run Time = Feet of Load Lift x Lifts per Hour x 2 ÷ Hoist Speed Then calculate: % On Time = Minutes Run Time ÷ 60
Ex: 2400 lb. includes all the components of the load (pallet, drum, sling, etc.).	Ex: 230V	Ex: 8 fpm	Ex: 12 ft.	Ex: 7 ft.	Ex: 15	Ex: 120 start/stops	Ex: 12 ft.

Hoist Service Classifications

Service Classification	Total Equipment Running Time	Max. Start/Stops Per Hour	Typical Areas of Application
H4 - Industry Standard	Approaching 50% of the work period	300	High-volume handling in steel warehousing, machine shops, fabricating plants, mills, and foundries. Manual or automatic cycling operations in heat-treating and plating operations.
H3	Not to exceed 25% of the work period	150	General machine shop, fabricating, assembly, storage, and warehousing use, where loads and operation are randomly distributed.
H2	Not to exceed 15% of the work period	75	Light machine shop, fabricating industries, and service and maintenance work, where loads and use are randomly distributed with capacity loads infrequently handled.

Note: For higher duty cycles, refer to the Air Hoist section.

452R33

452R42

Dayton

H4-Rated Single-Speed Electric Chain Hoists

- Lubrication: grease
- Positive braking, under all load conditions
- Include chain container
- Heat-treated steel alloy
- Meet ANSI/ASME B30.16 UL 1340

Brake stops and holds the load, even with loss of power. Rigid top and swivel load hooks provide positive load engagement. Include overtravel prevention system. Overload limiting clutch prevents hoist damage from heavy loads. 15-ft. power cord. Dual-voltage hoists reconnect for use at 230VAC.

Note: Replacement parts available on Grainger.com

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10 ft Lift 5-ft. Control Cord Item No.	15 ft Lift 11-ft. Control Cord Item No.	20 ft Lift 15-ft. Control Cord Item No.
500 lb	20 fpm	0.32 hp	115/230	1	17 5⁄16 in	7.6 A	**452R33**	**452R53**	**452R54**
	32 fpm	0.65 hp	115/230	1	17 5⁄16 in	10.5 A	**452R55**	**452R56**	**452R57**
1000 lb	20 fpm	0.65 hp	115/230	1	17 29⁄32 in	10.5 A	**452R39**	**452R45**	**452R46**
	32 fpm	1.3 hp	115/230	1	21 17⁄64 in	14.5 A	**452R51**	—	—
	32 fpm	1.3 hp	230/460	3	17 47⁄64 in	3.5 A	**452R34**	**452R35**	**452R36**
2000 lb	20 fpm	1.3 hp	115/230	1	21 17⁄64 in	14.5 A	**452R40**	**452R52**	**452R44**
	20 fpm	1.8 hp	230/460	3	21 17⁄64 in	6 A	**452R41**	**452R47**	**452R37**
4000 lb	10 fpm	1.3 hp	115/230	1	26 1⁄16 in	14.5 A	**452R42**	**452R48**	**452R49**
	10 fpm	1.8 hp	230/460	3	26 1⁄16 in	6 A	**452R43**	**452R50**	**452R38**

2GXH6

Dayton

H3-Rated Single-Speed Electric Chain Hoists

- Gears are enclosed in grease case
- Electric disc motor brakes
- Thermal overload protection
- Chain container included
- Hardened alloy steel chain
- Meet ANSI/ASME B30.16 UL 1340

Latch-type hook provides positive load engagement. Brake stops and holds the load, even with a loss of power. Offer up to 18-min. "On" time per hr. with full thermal protection. Upper and lower limit switches prevent chain overtravel.

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10 ft Lift 6 ft Control Cord Item No.	15 ft Lift 11 ft Control Cord Item No.	20 ft Lift 16 ft Control Cord Item No.
1,000 lb	16 fpm	0.67 hp	115	1	19 3⁄32 in	10 A	**2GXG9**	**2GXH1**	**2GXH2**
2,000 lb	16 fpm	1 hp	115	1	22 3⁄64 in	15 A	**2GXH3**	**2GXH4**	**2GXH5**
4,000 lb	8 fpm	1 hp	115	1	26 49⁄64 in	15 A	**2GXH6**	**2GXH7**	**2GXH8**

H4-Rated NER 3-Phase Electric Chain Hoists

- Dual speed via under-the-cover variable frequency drive
- Count hour meter and chain container
- Plug-in pendant and power cord
- Low-profile upper and lower limit switches
- 10-yr. warranty on brake
- IP55 rated for indoor or outdoor use
- Meet ANSI/ASME B30.16 and UL 1340
- RoHS Compliant

Designed for heavy- and severe-duty applications.

4DFL8

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
Single Speed								
250 lb	55 fpm	0.75 hp	208/230/460	13 13/16 in	3.4 A	**25K564**	**25K565**	**25K566**
500 lb	53 fpm	1.2 hp	208/230/460	13 13/16 in	4.8 A	**25K573**	**25K574**	**25K575**
	36 fpm	0.75 hp	208/230/460	13 13/16 in	3.4 A	**25K582**	**25K583**	**25K584**
1000 lb	15 fpm	0.75 hp	208/230/460	14 5/8 in	3.4 A	**4DFL1**	**4DFL2**	**4DFL3**
	29 fpm	1.2 hp	208/230/460	14 5/8 in	4.8 A	**4DFL4**	**4DFL5**	**4DFL6**
2000 lb	14 fpm	1.2 hp	208/230/460	16 15/16 in	4.8 A	**4DFL7**	**4DFL8**	**4DFL9**
	28 fpm	2.4 hp	208/230/460	16 15/16 in	8.6 A	**4DFN1**	**4DFN2**	**4DFN3**
4000 lb	14 fpm	2.4 hp	208/230/460	22 5/8 in	8.6 A	**4DFN4**	**4DFN5**	**4DFN6**
	28 fpm	4.7 hp	208/230/460	23 3/16 in	16.4 A	**4DFN7**	**4DFN8**	**4DFN9**
6000 lb	17 fpm	4.7 hp	208/230/460	32 15/16 in	16.4 A	**4DFP1**	**4DFP2**	**4DFP3**
10000 lb	11 fpm	4.7 hp	208/230/460	33 1/2 in	16.4 A	**4DFP4**	**4DFP5**	**4DFP6**
Variable Speed								
250 lb	55/9 fpm	0.75 hp	460	13 13/16 in	1.8 A	**25K568**	**25K570**	**25K572**
	55/9 fpm	0.75 hp	230	13 13/16 in	3.6 A	**25K567**	**25K569**	**25K571**
500 lb	53/9 fpm	1.2 hp	460	13 13/16 in	2.7 A	**25K577**	**25K579**	**25K581**
	36/6 fpm	0.75 hp	230	13 13/16 in	3.6 A	**25K585**	**25K587**	**25K589**
	36/6 fpm	0.75 hp	460	13 13/16 in	1.8 A	**25K586**	**25K588**	**25K590**
	53/9 fpm	1.2 hp	230	13 13/16 in	5.1 A	**25K576**	**25K578**	**25K580**
1000 lb	29/5 fpm	1.2 hp	230	14 5/8 in	5.1 A	**14H716**	**14H717**	**14H718**
	15/2.5 fpm	0.75 hp	230	14 5/8 in	3.6 A	**14H713**	**14H714**	**14H715**
	15/2.5 fpm	0.75 hp	460	14 5/8 in	1.8 A	**6HJH9**	**6HJJ0**	**6HJJ1**
	29/5 fpm	1.2 hp	460	14 5/8 in	2.7 A	**6HJJ2**	**6HJJ3**	**6HJJ4**
2000 lb	14/2.5 fpm	1.2 hp	230	16 15/16 in	5.1 A	**14H719**	**14H720**	**14H721**
	14/2.5 fpm	1.2 hp	460	16 15/16 in	2.7 A	**6HJJ5**	**6HJJ6**	**6HJJ7**
	28/4.5 fpm	2.4 hp	230	16 15/16 in	9.1 A	**14H722**	**14H723**	**14H724**
	28/4.5 fpm	2.4 hp	460	16 15/16 in	4.5 A	**6HJJ8**	**6HJJ9**	**6HJK0**
4000 lb	14/2.5 fpm	2.4 hp	230	22 5/8 in	9.1 A	**14H725**	**14H726**	**14H727**
	14/2.5 fpm	2.4 hp	460	22 5/8 in	4.5 A	**6HJK1**	**6HJK2**	**6HJK3**
	28/4.5 fpm	4.7 hp	230	23 3/16 in	17.3 A	**14H728**	**14H729**	**14H730**
	28/4.5 fpm	4.7 hp	460	23 3/16 in	8.3 A	**6HJK4**	**6HJK5**	**6HJK6**
6000 lb	17/3 fpm	4.7 hp	230	32 15/16 in	17.3 A	**14H731**	**14H732**	**14H733**
	17/3 fpm	4.7 hp	460	32 15/16 in	8.3 A	**6HJK7**	**6HJK8**	**6HJK9**
10000 lb	11/2 fpm	4.7 hp	230	33 1/2 in	17.3 A	**14H734**	**14H735**	**14H736**
	11/2 fpm	4.7 hp	460	33 1/2 in	8.3 A	**6HJL0**	**6HJL1**	**6HJL2**

H4-Rated NERP 3-Phase Electric Chain Hoists with Push Trolley

- Push trolley operates on S or W beams
- Side guide rollers for smooth travel
- High-strength, Grade 80, nickel-plated load chain
- Includes chain container
- Meet ANSI/ASME B30.16 and UL 1340
- RoHS Compliant

Hoist and trolley rated IP55 for indoor or outdoor use and are built to handle heavy- and severe-duty applications.

25K637

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
Single Speed									
250 lb	55 fpm	0.75 hp	208/230/460	15 5/8 in	2 1/4 in to 4 in	3.4 A	**25K591**	**25K592**	**25K593**
500 lb	53 fpm	1.2 hp	208/230/460	16 5/16 in	2 1/4 in to 4 in	4.8 A	**25K601**	**25K602**	**25K603**
	36 fpm	0.75 hp	208/230/460	15 5/8 in	2 1/4 in to 4 in	3.4 A	**25K610**	**25K611**	**25K612**
1000 lb	15 fpm	0.75 hp	208/230/460	17 1/8 in	2 1/4 in to 4 in	3.4 A	**25K619**	**25K620**	**25K621**
	29 fpm	1.2 hp	208/230/460	17 1/8 in	2 1/4 in to 4 in	4.8 A	**25K628**	**25K629**	**25K630**
2000 lb	14 fpm	1.2 hp	208/230/460	18 1/2 in	2 1/4 in to 5 in	4.8 A	**25K637**	**25K638**	**25K639**
3000 lb	18 fpm	2.4 hp	208/230/460	22 3/8 in	3 1/4 in to 6 in	8.6 A	**25K655**	**25K656**	**25K657**
4000 lb	7 fpm	1.2 hp	208/230/460	27 3/8 in	3 1/4 in to 6 in	4.8 A	**25K664**	**25K665**	**25K666**
	14 fpm	2.4 hp	208/230/460	25 in	3 1/4 in to 6 in	8.6 A	**25K673**	**25K674**	**25K675**
	28 fpm	4.7 hp	208/230/460	25 5/8 in	3 1/4 in to 6 in	16.4 A	**25K682**	**25K683**	**25K684**
6000 lb	17 fpm	4.7 hp	208/230/460	32 11/16 in	3 1/4 in to 6 in	16.4 A	**25K691**	**25K692**	**25K693**
10000 lb	11 fpm	4.7 hp	208/230/460	35 3/8 in	4 in to 7 in	16.4 A	**25K701**	**25K702**	**25K703**
Variable Speed									
250 lb	55/9 fpm	0.75 hp	460	15 5/8 in	2 1/4 in to 4 in	1.8 A	**25K594**	**25K595**	**25K596**
		0.75 hp	230	15 5/8 in	2 1/4 in to 4 in	3.6 A	**25K597**	**25K598**	**25K599**
500 lb	53/9 fpm	1.2 hp	460	16 5/16 in	2 1/4 in to 4 in	2.7 A	**25K604**	**25K605**	**25K606**
		1.2 hp	230	16 5/16 in	2 1/4 in to 4 in	5.1 A	**25K607**	**25K608**	**25K609**
	36/6 fpm	0.75 hp	460	15 5/8 in	2 1/4 in to 4 in	1.8 A	**25K613**	**25K614**	**25K615**
		0.75 hp	230	15 5/8 in	2 1/4 in to 4 in	3.6 A	**25K616**	**25K617**	**25K618**
1000 lb	15/2.5 fpm	0.75 hp	460	17 1/8 in	2 1/4 in to 4 in	1.8 A	**25K622**	**25K623**	**25K624**
		0.75 hp	230	17 1/8 in	2 1/4 in to 4 in	3.6 A	**25K625**	**25K626**	**25K627**
	29/5 fpm	1.2 hp	460	17 1/8 in	2 1/4 in to 4 in	2.7 A	**25K631**	**25K632**	**25K633**
		1.2 hp	230	17 1/8 in	2 1/4 in to 4 in	5.1 A	**25K634**	**25K635**	**25K636**
2000 lb	14/2.5 fpm	1.2 hp	230	18 1/2 in	2 1/4 in to 5 in	5.1 A	**25K643**	**25K644**	**25K645**
		1.2 hp	460	18 1/2 in	2 1/4 in to 5 in	2.7 A	**25K640**	**25K641**	**25K642**
	28/4.5 fpm	2.4 hp	230	18 1/2 in	2 1/4 in to 5 in	9.1 A	**25K652**	**25K653**	**25K654**
		2.4 hp	460	18 1/2 in	2 1/4 in to 5 in	4.5 A	**25K649**	**25K650**	**25K651**
3000 lb	18/3 fpm	2.4 hp	460	22 3/8 in	3 1/4 in to 6 in	4.5 A	**25K658**	**25K659**	**25K660**
		2.4 hp	230	22 3/8 in	3 1/4 in to 6 in	9.1 A	**25K661**	**25K662**	**25K663**
4000 lb	7/1 fpm	1.2 hp	460	27 13/16 in	3 1/4 in to 6 in	2.7 A	**25K667**	**25K668**	**25K669**
		1.2 hp	230	27 13/16 in	3 1/4 in to 6 in	5.1 A	**25K670**	**25K671**	**25K672**
	14/2.5 fpm	2.4 hp	460	25 in	3 1/4 in to 6 in	4.5 A	**25K676**	**25K677**	**25K678**
		2.4 hp	230	25 in	3 1/4 in to 6 in	9.1 A	**25K679**	**25K680**	**25K681**
	28/4.5 fpm	4.7 hp	460	25 5/8 in	3 1/4 in to 6 in	8.3 A	**25K685**	**25K686**	**25K687**
		4.7 hp	230	25 5/8 in	3 1/4 in to 6 in	17.3 A	**25K688**	**25K689**	**25K690**
6000 lb	17/3 fpm	4.7 hp	460	32 7/8 in	3 1/4 in to 6 in	8.3 A	**25K694**	**25K695**	**25K696**
		4.7 hp	230	32 7/8 in	3 1/4 in to 6 in	17.3 A	**25K697**	**25K698**	**25K699**
10000 lb	11/2 fpm	4.7 hp	460	33 1/2 in	4 in to 7 in	8.3 A	**25K704**	**25K705**	**25K706**
		4.7 hp	230	33 1/2 in	4 in to 7 in	17.3 A	**25K707**	**25K708**	**25K709**

Find Trolleys on pages 1060 and 1061.

6HJN5

H4-Rated NERM 3-Phase Electric Chain Hoists with Motorized Trolley

HARRINGTON

- Lightweight, die-cast aluminum body
- Fan-cooled motor with 60-min. duty rating
- Grade 80 nickel-plated load chain
- Chain container included
- Upper and lower limit switches
- Trolley operates on S or W beams
- Rubber bumpers and drop stops
- Meet ANSI/ASME B30.16 and UL 1340

Hoist and trolley are suitable for indoor or outdoor use. Electromagnetic brake will not release unless motor is energized. 5-pocket load sheave reduces chain vibration. Side guide rollers for smooth travel along beam.

Note: See Grainger.com® for variable-speed options.

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
1000 lb	15 fpm	0.75 hp	230/460	15 5/8 in	2 9/32 in to 5 in	6.65 A	6HJL3	6HJL4	—
		0.75 hp	230/460	15 5/8 in	2 9/32 in to 5 in	3.4 A	—	—	6HJL5
	29 fpm	1.2 hp	230/460	15 5/8 in	2 9/32 in to 5 in	4.8 A	6HJL6	—	—
		1.2 hp	230/460	15 5/8 in	2 9/32 in to 5 in	8 A	—	6HJL7	6HJL8
2000 lb	14 fpm	1.2 hp	230/460	17 in	2 9/32 in to 5 in	8 A	6HJL9	6HJN0	—
		1.2 hp	230/460	17 7/64 in	2 9/32 in to 5 in	4.8 A	—	—	6HJN1
	28 fpm	2.4 hp	230/460	17 in	2 9/32 in to 5 in	11.8 A	6HJN2	6HJN3	—
		2.4 hp	230/460	17 7/64 in	2 9/32 in to 5 in	5.6 A	—	—	6HJN4
4000 lb	14 fpm	2.4 hp	230/460	22 7/16 in	3 7/32 in to 6 3/16 in	11.8 A	6HJN5	6HJN6	—
		2.4 hp	230/460	22 7/16 in	3 7/32 in to 6 3/16 in	5.6 A	—	—	6HJN7
	28 fpm	4.7 hp	230/460	23 in	3 7/32 in to 6 3/16 in	19.6 A	6HJN8	6HJN9	—
		4.7 hp	230/460	23 in	3 7/32 in to 6 3/16 in	16.4 A	—	—	6HJP0
6000 lb	17 fpm	4.7 hp	230/460	32 15/16 in	3 7/32 in to 6 3/16 in	19.6 A	6HJP1	6HJP2	—
		4.7 hp	230/460	32 15/16 in	3 7/32 in to 6 3/16 in	16.4 A	—	—	6HJP3
10000 lb	11 fpm	4.7 hp	230/460	33 3/32 in	3 15/16 in to 7 3/32 in	21.5 A	6HJP4	6HJP5	—
		4.7 hp	230/460	33 3/32 in	3 15/16 in to 7 3/32 in	16.4 A	—	—	6HJP6

6HJR6

H4-Rated SNER 1-Phase Electric Chain Hoists

HARRINGTON

- Compact, die-cast aluminum body
- Heat-treated, Grade 80 nickel-plated chain
- Chain container included
- Easy-access control panel
- Long-life friction clutch
- Meet ANSI/ASME B30.16

Hoist is suitable for indoor or outdoor use. Pull-rotor motor brake with no brake coil to fail. Load sheave design reduces vibration and wear. Cast-iron chain guide provides smooth, quiet operation.

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
500 lb	14 fpm	0.34 hp	115/230	13 13/16 in	7.7 A	6HJR6	6HJR7	6HJR8
1,000 lb	7 fpm	0.34 hp	115/230	14 in	7.7 A	6HJR9	6HJT0	6HJT1
	15 fpm	0.6 hp	115/230	14 5/8 in	16.9 A	6HJT2	6HJT3	6HJT4
2,000 lb	7 fpm	0.6 hp	115/230	16 in	16.9 A	6HJT5	6HJT6	6HJT7
	14 fpm	1.2 hp	115/230	17 5/16 in	23.9 A	6HJT8	6HJT9	6HJU0
4,000 lb	7 fpm	1.2 hp	115/230	22 5/8 in	23.9 A	6HJU1	6HJU2	6JFY9
6,000 lb	3.5 fpm	1.2 hp	115/230	29 1/2 in	23.9 A	6JFZ0	6JFZ1	6JFZ2

25K773

H4-Rated 1-Phase Electric Chain Hoists with Trolley

HARRINGTON

SNERP WITH PUSH TROLLEY

- Pull-rotor motor brake for reliability
- Hinged control panel, sealed housing, and durable load sheave
- Push trolley provides extra mobility
- Suitable for S or W beams
- Meet ANSI/ASME B30.16

SNERM WITH MOTORIZED TROLLEY

- Vibration-reducing load sheave
- Durable pull-rotor motor brake
- Low-headroom design
- Grade 80 nickel-plated load chain
- Chain container included
- Trolley operates on tapered or flat beams
- Side guide rollers for smooth movement and reduced wear
- Includes drop stops and rubber bumpers

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Fits Beam Flange W	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
SNERP 1-Phase Electric Chain Hoists with Push Trolley									
500 lb	14 fpm	0.34 hp	115/230	14 5/8 in	2 1/4 in to 5 in	7.7 A	25K764	25K765	25K766
1,000 lb	7 fpm	0.34 hp	115/230	14 5/8 in	2 1/4 in to 5 in	7.7 A	25K767	25K768	25K769
	15 fpm	0.6 hp	115/230	15 3/8 in	2 1/4 in to 5 in	16.9 A	25K770	25K771	25K772
2,000 lb	7 fpm	0.6 hp	115/230	16 1/2 in	2 1/4 in to 5 in	16.9 A	25K773	25K774	25K775
	14 fpm	1.2 hp	115/230	17 11/16 in	2 1/4 in to 5 in	23.9 A	25K776	25K777	25K778
4,000 lb	7 fpm	1.2 hp	115/230	22 1/4 in	3 1/4 in to 6 in	23.9 A	25K779	25K780	25K781
6,000 lb	3.5 fpm	1.2 hp	115/230	28 7/8 in	3 1/4 in to 6 in	23.9 A	25K782	25K783	25K784
SNERM 1-Phase Electric Chain Hoists with Motorized Trolley									
500 lb	14 fpm	0.34 hp	115/230	14 5/8 in	2 9/32 in to 5 in	7.7 A	6JFZ3	6JFZ4	6JFZ5
1,000 lb	7 fpm	0.34 hp	115/230	14 5/8 in	2 9/32 in to 5 in	7.7 A	6JFZ6	6JFZ7	6JFZ8
	15 fpm	0.6 hp	115/230	15 7/16 in	2 9/32 in to 5 in	16.9 A	6JFZ9	6JGA0	6JGA1
2,000 lb	7 fpm	0.6 hp	115/230	16 1/2 in	2 9/32 in to 5 in	16.9 A	6JGA2	6JGA3	6JGA4
	14 fpm	1.2 hp	115/230	17 11/16 in	2 9/32 in to 5 in	23.9 A	6JGA5	6JGA6	6JGA7
4,000 lb	7 fpm	1.2 hp	115/230	22 3/16 in	3 7/32 in to 6 3/16 in	23.9 A	6JGA8	6JGA9	6JGC0
6,000 lb	3.5 fpm	1.2 hp	115/230	28 15/16 in	3 7/32 in to 6 3/16 in	23.9 A	6JGC1	6JGC2	6JGC3

Find Trolleys on pages 1060 and 1061.

DEMAG
Cranes & Components

H4-Rated Electric Chain Hoists

- Pendant control
- CSA and HMI Certified

Gearbox, brake, and slip clutch are maintenance-free for up to 10 yr. Simple plug connections are located in a centralized area.

33Z981

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Amps @ Low Volts	16-ft. Lift 2- to 12-ft. Control Cord Item No.	26-ft. Lift 12- to 22-ft. Control Cord Item No.
2-Speed							
250 lb	32/8 fpm	0.3 hp	230	3	2.9 A	33Z983	33Z984
			460	3	1.35 A	33Z981	33Z982
			575	3	1.2 A	33Z985	33Z986
500 lb	24/6 fpm	0.48 hp	230	3	3 A	33Z989	—
			460	3	1.55 A	33Z987	33Z988
			575	3	1.0 A	33Z990	—
1000 lb	18/4.5 fpm	0.66 hp	230	3	5 A	33Z993	—
			460	3	2.5 A	33Z991	33Z992
			575	3	1.8 A	33Z994	—
2000 lb	16/4 fpm	1.2 hp	230	3	4.5 A	33Z997	—
			460	3	2.25 A	33Z995	33Z996
			575	3	1.6 A	33Z998	—
4000 lb		2.4 hp	460	3	6.1 A	33Z999	34A001
			575	3	3.9 A	34A002	—
Variable Speed							
250 lb	0 to 100 fpm	0.98 hp	480	3	3.1 A	34A033	34A034
500 lb	0 to 52 fpm		480	3	3.1 A	34A035	34A036
1000 lb	0 to 26 fpm		480	3	2.9 A	34A037	34A038
2000 lb	0 to 20 fpm	2.95 hp	480	3	4.5 A	34A039	34A040
	0 to 40 fpm		480	3	4.5 A	34A041	—
4000 lb	0 to 20 fpm		480	3	4.5 A	34A042	34A043
5000 lb	0 to 13 fpm		480	3	4.5 A	34A044	—

HARRINGTON
A KITO GROUP COMPANY

H4-Rated NER Food-Grade 3-Phase Electric Chain Hoists

- Food-grade lubricants meet FDA standards
- Epoxy paint
- Nickel-painted load chain
- Stainless steel and nickel-plated components
- Designed for the food processing industry
- ASME H4 classification for high-duty cycle
- RoHS Compliant
- Meet ANSI/ASME B30.16

33RV58

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
500 lb	15 fpm	0.75 hp	230/460	13 13/16 in	3.4 A	33RV52	33RV53	33RV54
	15/2.5 fpm	0.75 hp	460	13 13/16 in	3.4 A	33RV64	33RV65	33RV66
1,000 lb	15 fpm	0.75 hp	230/460	14 5/8 in	3.4 A	33RV55	33RV56	33RV57
	15/2.5 fpm	0.75 hp	460	14 5/8 in	3.4 A	33RV67	33RV68	33RV69
2,000 lb	14 fpm	1.2 hp	230/460	17 in	4.8 A	33RV58	33RV59	33RV60
	14/2.5 fpm	1.2 hp	460	17 in	4.8 A	33RV70	33RV71	33RV72
4,000 lb	14 fpm	2.4 hp	230/460	22 5/8 in	2.4 A	33RV61	33RV62	33RV63
	14/2.5 fpm	2.4 hp	460	22 5/8 in	2.4 A	33RV73	33RV74	33RV75

HARRINGTON
A KITO GROUP COMPANY

H4-Rated TNER Theatrical Electric Hoists

- Matches common speed requirements
- Can fit in common road cases
- Handles offered as standard
- Outdoor-rated as standard
- Grease-packed gear-box
- Designed for the unique requirements of the theater industry
- 5-yr. brake warranty

33RW54

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Between Hooks	Amps @ Low Volts	10 ft Hoist Lift Item No.	60 ft Hoist Lift Item No.
1,000 lb	16 fpm	0.65 hp	230/460	13 13/16 in	3.7 A	33RW49	33RW50
2,000 lb	16 fpm	1.3 hp	230/460	16 in	5.6 A	33RW51	33RW52
4,000 lb	8 fpm	1.3 hp	230/460	22 13/16 in	5.6 A	33RW53	33RW54

Find more information on Hoist selection on page 1050. Find Trolleys on pages 1060 and 1061.

2XY32

4GU72

H2-Rated Single-Phase Electric Chain and Wire Rope Hoists

Dayton

- Gears are enclosed in a sealed grease case
- Electric disc motor brakes
- Thermal overload protection
- 1000- and 2000-lb. models include chain container
- Hardened alloy steel chain
- Meet ANSI/ASME B30.16 UL 1340

Ideal for applications that require multiple lift points. Commercial-duty hoists feature latch-style swivel hooks for positive load engagement. Brakes stop and hold load, even during power loss, while upper and lower limit switches prevent chain overtravel. 12-min. "On" per hr. duty cycle. Include 13", 3-prong plug power cord.

Electric Chain Hoists—¼-ton, 800-lb., and 1-ton capacity hoists are double-chained.

Electric Wire Rope Hoist—Paddle limit switch provides positive protection in the "Up" direction.

Load Capacity	Lift Speed	Motor HP	Voltage	Phase	Min. Between Hooks	Amps @ Low Volts	10 ft Hoist Lift 6 ft Control Cord Item No.	15 ft Hoist Lift 11 ft Control Cord Item No.	20 ft Hoist Lift 16 ft Control Cord Item No.
Electric Chain Hoists									
300 lb	14 fpm	0.16 hp	115	1	14 ½ in	3 A	**4GU70**	**2GTC9**	**2GTD1**
500 lb	7 fpm	0.16 hp	115	1	16 in	3 A	**4GU71**	**2GTD2**	**2GTD3**
800 lb	7 fpm	0.2 hp	115	1	16 ¾ in	3 A	**4ZY98**	**2GTD4**	**2GTD5**
1,000 lb	16 fpm	0.67 hp	115	1	19 3/32 in	10 A	**2XY32**	**2GTD6**	**2GTD7**
2,000 lb	8 fpm	0.66 hp	115	1	22 7/16 in	10 A	**2XY33**	**2GTD8**	**2GTD9**
Electric Wire Rope Hoist									
500 lb	10 fpm	0.1667 hp	115	1	14 ½ in	3.0 A	**4GU72**	—	—

Single-Phase Dual-Speed Electric Chain Hoists

HARRINGTON
A KITO GROUP COMPANY

6HJP7

- Heat-treated gearing
- High-performance friction clutch
- Compact and lightweight, die-cast aluminum body
- Precise load positioning
- Chain container included
- Corrosion-resistant, nickel-plated load chain
- Meet ANSI/ASME B30.16, ASME HST-1, and NFPA 70 Standards

Single Adjustable Speed V—Engineered with Smart Speed Technology so you can change the factory set speed to a higher speed with a simple adjustment inside the hoist. These compact units provide low headroom and are easily installed, transported, or stored. Perfect for industrial and commercial applications.

Dual-Speed—Low speed can be adjusted from 0 to 100% of maximum speed by setting a screw within pendant.

Ergonomic Dual Adjustable Speed—One-handed cylinder control frees other hand to easily position load. Rocker switch above handgrip permits easy low- and high-speed selection, while finger turn knobs set speeds from 0 to 100%.

Classification	Load Capacity	Lift Speed	Motor HP	Voltage	Min. Dist. Between Hooks	Amps	6 ft LIFT Control Cord	6 ft LIFT Item No.	10 ft LIFT Control Cord	10 ft LIFT Item No.	15 ft LIFT Control Cord	15 ft LIFT Item No.	20 ft LIFT Control Cord	20 ft LIFT Item No.
Single Adjustable-Speed V Models														
H2	250 lb	16/26 fpm	0.4 hp	120	12 13/32 in	6 A	—	—	7 ft	**49CZ46**	12 ft	**49CZ47**	17 ft	**49CZ48**
H2	350 lb	16/44 fpm	0.8 hp	120	13 in	10 A	—	—	7 ft	**49CZ49**	12 ft	**49CZ50**	17 ft	**49CZ51**
Dual-Speed DS Models														
H3	1,050 lb	22/6 fpm	0.8 hp	120	20 ½ in	10 A	—	—	6 ft	**6HJR3**	11 ft	**6HJR4**	16 ft	**6HJR5**
H2	125 lb	69/13 fpm	0.4 hp	120	12 13/32 in	5 A	—	—	7 ft	**23XP92**	12 ft	**23XP93**	16 ft	**23XP94** *
H2	220 lb	43/10 fpm	0.4 hp	120	12 13/32 in	5 A	—	—	7 ft	**23XR03**	12 ft	**23XR04**	16 ft	**23XR05** *
H2	250 lb	26/10 fpm	0.4 hp	120	12 7/16 in	5 A	—	—	6 ft	**6HJP7**	11 ft	**6HJP8**	16 ft	**6HJP9**
H3	350 lb	66/13 fpm	0.8 hp	120	13 in	10 A	—	—	7 ft	**23XR18**	12 ft	**23XR19**	17 ft	**23XR20**
H3	525 lb	44/10 fpm	0.8 hp	120	13 in	10 A	—	—	6 ft	**6HJR0**	11 ft	**6HJR1**	16 ft	**6HJR2**
Dual Adjustable DA Models														
H2	125 lb	69 fpm	0.4 hp	120	37 7/32 in	5 A	6 ft	**1VW82**	—	—	—	—	—	—
H2	250 lb	26 fpm	0.4 hp	120	37 7/32 in	6 A	6 ft	**1VW83**	—	—	—	—	—	—
H3	350 lb	66 fpm	0.8 hp	120	37 13/16 in	10 A	6 ft	**1VW84**	—	—	—	—	—	—
H2	525 lb	44/10 fpm	0.8 hp	120	37 13/16 in	10 A	6 ft	**23XR37**	—	—	—	—	—	—

** 19 ft. Lift*

Tractel

Minifor H3-Rated Single-Speed Portable Electric Wire Rope Hoists

- 1-phase
- Grease lubricated
- Electromagnetic cone brake
- Unlimited lift height
- 10-ft. pendant control
- NEMA 3R push-button control pendant
- Meet ASME/ANSI B30.16 Standards

Load Capacity	Lift Speed	Motor HP	Voltage	Min. Dist. Between Hooks	Amps @ Low Volts	Item No.
Electric Wire Rope Hoists						
220 lb	50 fpm	0.5 hp	115	28 ⅛ in	9.3 A	**6XXG5**
660 lb	17 fpm	1.5 hp	115	28 ⅛ in	9.3 A	**6XXG6**
660 lb	43 fpm	1.5 hp	220	27 ¾ in	20 A	**6XXG7**
1,100 lb	23 fpm	1.5 hp	115	27 ¾ in	20 A	**6XXG8**
1,100 lb	23 fpm	1.5 hp	220	27 ¾ in	10 A	**6XXG9**
Wire Rope Assemblies with Safety Latch Hook						
100 ft. Length						**6XXH0**
150 ft. Length						**6XXH1**
200 ft. Length						**6XXH2**

Electric Wire Rope Hoist 6XXG5

Lightweight, compact hoists lift loads to any height with unlimited length of wire rope that does not accumulate in hoist. Cast-aluminum housing and thermal overload protection. Sheaving doubles the load capacities. Wire Rope Assemblies are constructed of ¼"-dia. alloy steel wire rope with thimble eye and safety latch hook included.

OZ LIFTING PRODUCTS LLC

Electric Builder's Hoists

5NPL3

48RD44

Designed for use on commercial building sites and in various construction workplaces, warehouses, storage facilities, and factories. Lightweight and compact for convenient mounting. Feature sensor arm for automatic shut-off to prevent reverse winding. Plug-in cords for ease of use. 360° hook rotation with safety latch. Built-in safety features and easy control of lifting for a wide range of applications.

48RD45

Load Capacity	Lift	Lift Speed	Motor HP	Voltage	Phase	Amps	Item No.
500 lb	90 ft	75 fpm	1.3 hp	115	1	17.5	**5NPL3**
1,000 lb	90 ft	37 fpm	2 hp	115	1	15.5	**48RD44**
Required Bracket							
Builders Hoist Bracket							**48RD45**

Air Chain Hoist
29XL85

Dayton

500- to 2000-lb. Capacity Air Chain Hoists

- Operate on 48 cfm at 90 psi
- Heat-treated alloy steel spur gears
- Shoe-type brake
- Meet ANSI/ASME B30.16 Standards
- Steel alloy load chain
- Upper and lower limit stops
- ½" NPT hose connection

Pendant throttle allows one-handed control. Aluminum frames and cover. Top and bottom latch hooks swivel 360°. 8-vane motor has tapped exhaust port.

Note: Air line lubricator required.

Load Capacity	Lift Speed	Min. Between Hooks	Reeving	Housing Length	Housing Width	10 ft Lift Air Chain Hoists Item No.	20 ft Lift Air Chain Hoists Item No.	Metal Chain Containers Item No.
500 lb	65 fpm	15 ¼ in	1	12 ⅛ in	10 3⁄16 in	**29XL85**	**29XL90**	**29XL91**
1000 lb	45 fpm	15 ¼ in	1	12 ⅛ in	10 3⁄16 in	**29XL86**	**29XL87**	**29XL91**
2000 lb	23 fpm	18 in	2	12 ⅛ in	10 3⁄16 in	**29XL88**	—	**29XL91**
2000 lb	23 fpm	18 in	2	12 ⅛ in	10 3⁄16 in	—	**29XL89**	**29XL92**

HARRINGTON
A KITO GROUP COMPANY

250- to 4000-lb. Capacity Air Chain Hoists

- Low headroom
- Fine feathering control for precise positioning
- Self-adjusting disc brake system
- Continuous-duty cycle
- Nickel-plated load chain and chain container included
- Built-in adjustable load limiter and limit switches
- Meet ANSI/ASME B30.16 Standards

AH Series hoists are compact and lightweight.

TCR Series are designed for heavy load lifting with pilot air and spring-loaded vanes for ultimate load control.

TCS Series include external speed adjustment.

AH Series

TCR Series

TCS Series

Load Capacity	Lift Speed	Min. Between Hooks	Reeving	Housing Length	Housing Width	Air Consumption	Control	10 ft Lift Item No.	15 ft Lift Item No.	20 ft Lift Item No.
AH Series										
250 lb	41 fpm	33 in	1	11 5⁄16 in	4 in	28 scfm	Manipulator	**5DZF9** *	—	—
	41 fpm	45 in	1	11 5⁄16 in	4 in	28 scfm	Manipulator	**5DZG0** †	—	—
	42 fpm	12 in	1	9 11⁄16 in	4 in	28 scfm	Pendant	**5DZF6**	**5DZF7**	**5DZF8**
	47 fpm	12 in	1	9 11⁄16 in	4 in	32 scfm	Pull Cord	**5DZF3**	**5DZF4**	**5DZF5**
500 lb	29 fpm	12 in	1	9 11⁄16 in	4 in	26 scfm	Pendant	**5DZG4**	**5DZG5**	**5DZG6**
	29 fpm	33 in	1	9 11⁄16 in	4 in	26 scfm	Manipulator	**5DZG7** *	—	—
	29 fpm	45 in	1	9 11⁄16 in	4 in	26 scfm	Manipulator	**5DZG8** †	—	—
	32 fpm	12 in	1	9 11⁄16 in	4 in	29 scfm	Pull Cord	**5DZG1**	**5DZG2**	**5DZG3**
TCR Series										
500 lb	52 fpm	18 3⁄16 in	1	13 ½ in	6 29⁄32 in	48 scfm	Pull Cord	**5DZJ7**	**5DZJ8**	**5DZJ9**
	52 fpm	18 3⁄16 in	1	13 ½ in	6 29⁄32 in	48 scfm	Pendant	**5DZK0**	**5DZK1**	**5DZK2**
1000 lb	37 fpm	18 3⁄16 in	1	13 ½ in	6 29⁄32 in	48 scfm	Pull Cord	**5DZK3**	**5DZK4**	**5DZK5**
	37 fpm	18 3⁄16 in	1	13 ½ in	6 29⁄32 in	48 scfm	Pendant	**5DZK6**	**5DZK7**	**5DZK8**
2000 lb	21 fpm	18 5⁄16 in	1	13 ½ in	6 29⁄32 in	53 scfm	Pull Cord	**5DZK9**	**5DZL0**	**5DZL1**
	21 fpm	18 5⁄16 in	1	13 ½ in	6 29⁄32 in	53 scfm	Pendant	**5DZL2**	**5DZL3**	**5DZL4**
4000 lb	11 fpm	21 13⁄16 in	2	13 ½ in	8 in	53 scfm	Pull Cord	**5DZL5**	**5DZL6**	**5DZL7**
	11 fpm	21 13⁄16 in	2	13 ½ in	8 in	53 scfm	Pendant	**5DZL8**	**5DZL9**	**5DZN0**
TCS Series										
500 lb	121 fpm	16 5⁄16 in	1	14 ⅜ in	8 11⁄16 in	64 scfm	Pull Cord	**5DZG9**	**5DZH0**	**5DZH1**
	121 fpm	16 5⁄16 in	1	14 ⅜ in	8 11⁄16 in	60 scfm	Pendant	**5DZH2**	**5DZH3**	**5DZH4**
1000 lb	60 fpm	16 5⁄16 in	1	14 ⅜ in	8 11⁄16 in	60 scfm	Pull Cord	**5DZH5**	**5DZH6**	**5DZH7**
	60 fpm	16 5⁄16 in	1	14 ⅜ in	8 11⁄16 in	60 scfm	Pendant	**5DZH8**	**5DZH9**	**5DZJ0**
2000 lb	30 fpm	17 ⅞ in	2	14 ⅜ in	9 in	60 scfm	Pull Cord	**5DZJ1**	**5DZJ2**	**5DZJ3**
	30 fpm	17 ⅞ in	2	14 ⅜ in	6 3⁄16 in	60 scfm	Pendant	**5DZJ4**	**5DZJ5**	**5DZJ6**

*** 6½-ft. Lift † 13-ft. Lift***

1VW51

29XP24

Dayton

½- to 3-Ton Manually Operated Chain Hoists

- Load-tested to 125% of rated load
- Through-hardened load chain
- Available with optional Overload Protection
- Meet ANSI/ASME B30.16 Standards

Lubricated roller bearings and bushings, bearing-mounted pinions, and heat-treated spur gearing. Hand chain hangs 2 ft. shorter than lift.

Load Capacity	Chain Pull to Lift Load†	Min. Between Hooks	8 ft LIFT Item No.	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection						
1,000 lb	58 lb	11 ½ in	1VW54	1VW51	1VW52	1VW53
2,000 lb	60 lb	13 ¾ in	—	1VW55	1VW56	1VW57
4,000 lb	86 lb	17 ¼ in	—	1VW58	1VW59	1VW60
6,000 lb	91 lb	21 ¼ in	—	1VW61	1VW62	1VW63
Overload Protection						
1,000 lb	56 lb	11 ½ in	—	29XP24	29XP25	29XP26
2,000 lb	73 lb	13 in	—	29XP27	29XP28	29XP29
4,000 lb	75 lb	15 ¾ in	—	29XP30	29XP31	29XP32
6,000 lb	78 lb	20 in	—	29XP33	29XP34	29XP35

† Pulling force in pounds required to lift rated load.

38EV02

Dayton

½- to 3-Ton Manually Operated Low Headroom Chain Hoists

- Self-adjusting brake
- ½- to 2-ton have single-reeved load chain; 3-ton are double-reeved
- Meet ANSI/ASME B30.16 Standards

Low headroom features compact design and jamproof chain guide. Smooth operation is provided by friction-reducing roller and ball bearings. Hand chain hangs 1.64 ft. shorter than lift.

Load Capacity	Chain Pull to Lift Load†	Min. Between Hooks	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection					
1,000 lb	49 lb	10 ¾ in	38EV02	38EV03	38EV04
2,000 lb	67 lb	13 ½ in	38EV05	38EV06	38EV07
4,000 lb	101 lb	16 ¼ in	38EV08	38EV09	38EV10
6,000 lb	86 lb	21 ¾ in	38EV11	38EV12	38EV13

† Pulling force in pounds required to lift rated load.

HARRINGTON
A KITO GROUP COMPANY

¼- and ½-Ton CX Series Mini Hand Chain Hoists with Overload Protection

- Compact hoist with low headroom
- Weston-type brake
- Nickel-plated, Grade 100 load chain
- Standard overload protection
- Meet ANSI/ASME B30.16 Standards

Lightweight and compact design for high or difficult to reach places. Offer exceptional ratio of compact size to lifting power.

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	10 ft LIFT Item No.	20 ft LIFT Item No.
Overload Protection				
500 lb	33 lb	8 ½ in	1AEX9	49CY84
1,000 lb	42 lb	10 ¼ in	49CY86	49CY88

** Pulling force in pounds required to lift rated load.*

6HJF4

HARRINGTON
A KITO GROUP COMPANY

½- to 5-Ton CF Series Manual Hand Chain Hoists

- Die-cast aluminum body
- Weston-type load brake
- High-strength main pinion and load gear
- Heat-treated alloy steel hooks
- Prelubricated ball bearings and precision-machined gears
- Meet ANSI/ASME B30.16 Standards

Economical design with fewer parts for efficient, trouble-free service and exceptional durability.

Load Capacity	Chain Pull to Lift Load*	Min. Between Hooks	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection					
1,000 lb	60 lb	12 ¾ in	6HJF4	6HJF5	6HJF6
2,000 lb	72 lb	14 ¾ in	6HJF7	6HJF8	6HJF9
3,000 lb	84 lb	17 ¼ in	6HJG0	6HJG1	6HJG2
4,000 lb	80 lb	20 in	6HJG3	6HJG4	6HJG5
6,000 lb	92 lb	23 ¼ in	6HJG6	6HJG7	6HJG8
10,000 lb	92 lb	24 ½ in	6HJG9	6HJH0	6HJH1

** Pulling force in pounds required to lift rated load.*

33RW71

HARRINGTON
A KITO GROUP COMPANY

½- to 20-Ton CB Series Manual Hand Chain Hoists with Overload Protection

- All-steel construction
- Low headroom and lightweight design
- Heat-treated alloy steel hooks
- Overload protection included
- Meet ANSI/ASME B30.16 Standards

Offer superior size to lifting power ratios along with a heavy-duty industrial design.

Load Capacity	Chain Pull to Lift Load*	Min. Between Hooks	8 ft LIFT Item No.	12 ft LIFT Item No.
Overload Protection				
2,000 lb	58 lb	11 ½ in	33RW72	—
1,000 lb	48 lb	11 in	33RW71	—
3,000 lb	70 lb	13 ¾ in	33RW73	—
4,000 lb	72 lb	14 ¾ in	33RW74	—
5,000 lb	66 lb	16 ½ in	33RW75	—
6,000 lb	72 lb	20 in	33RW76	—
10,000 lb	68 lb	23 ¾ in	33RW77	—
16,000 lb	75 lb	30 in	33RW78	—
20,000 lb	72 lb	30 in	—	33RW79
30,000 lb	74 lb	40 ¼ in	—	33RW80
40,000 lb	72 lb	46 ½ in	—	33RW81

** Pulling force in pounds required to lift rated load.*

HARRINGTON A KITO GROUP COMPANY

1- to 10-Ton Ultra-Low Headroom Trolley Hoists

- All-steel construction
- 20-ft. standard lift
- Double-enclosed brake cover
- Grade 100, heat-treated manganese alloy load chain
- Trolley wheels fit on both tapered and flat flanged beams
- Meet ANSI/ASME B30.16 Standards

Provide a minimal distance between the bottom hook when at its highest point and the support beam. Ideal for applications where longer hook travel is required.

6HJH2

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	Fits Beam Flange W	Item No.
2,000 lb	59 lb	4 ½ in	2 9/32 in to 6 7/64 in	**6HJH2**
4,000 lb	54 lb	5 ¾ in	3 15/64 in to 8 1/32 in	**6HJH3**
6,000 lb	63 lb	6 ½ in	3 15/64 in to 8 1/32 in	**6HJH4**
10,000 lb	75 lb	7 ¾ in	3 15/16 in to 8 1/32 in	**6HJH5**
16,000 lb	65 lb	10 in	5 ½ in to 8 21/32 in	**6HJH6**
20,000 lb	81 lb	10 in	5 ½ in to 8 21/32 in	**6HJH7**

** Pulling force in pounds required to lift rated load.*

HARRINGTON A KITO GROUP COMPANY

1- to 5-Ton NTH Navy Trolley Hoists

- 10-ft. standard lift
- Integral trolley for low headroom
- Easily adjustable flange width
- Can accommodate flat or tapered beam
- Meet ANSI/ASME B30.16 Standards

Designed for applications where headroom is limited. Combine the economical CF hand chain hoist with a unique permanently attached trolley resulting in an extremely durable and compact trolley/hoist for use in tight quarters. Flanged trolley wheels provide smooth travel.

45NV54

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	Item No.
2,000 lb	72 lb	12 ½ in	**45NV54**
4,000 lb	80 lb	16 ½ in	**45NV55**
6,000 lb	92 lb	19 in	**45NV56**
10,000 lb	92 lb	20 ¼ in	**45NV57**

** Pulling force in pounds required to lift rated load.*

Dayton

550- and 1000-lb. Mini Ratchet Chain Pullers

- Weston-type load brake
- Single-stage reduction gearing
- Hardened and plated alloy steel load chain
- Load-tested
- Meet ANSI/ASME B30.21 Standards

One-handed operation from any position. Free-chaining feature enables quick load attachment. Constructed of forged steel. Upper and lower hooks include latches to secure loads. Feature rubber grip.

Load Capacity	Pull to Lift Rated Load	Min. Between Hooks	Lift	Lever Length	Item No.
550 lb	60 lb	9 1/16 in	5 ft	6 ¼ in	**5YGF5**
1,000 lb	79 lb	10 3/64 in	10 ft	8 35/64 in	**425Z67**

OZ LIFTING PRODUCTS LLC

½-Ton 30-Ton

¼- to 30-Ton Manually Operated Hand Chain Hoists with Overload Protection

- Load-tested at 150% capacity
- Forged alloy steel hooks with cast-steel safety latch and bolt-and-lock nut
- Weatherproof load-holding Weston-type brake with twin pawl design
- Fully enclosed gearing to protect from debris and contamination
- Meet HMI and ANSI/ASME B30.16, CE, AS 1418.2 Standards
- 48RD59 meets ASME B30.16 Standards

When activated, factory-set overload protection will not let hoist operate, but allows operator to lower load (if lifting) or release load (if pulling). Hand-wheel design enables hand chain to feed directly into wheel sprocket from any direction or angle. Lower block has a thrust bearing, allowing easy rotation of a suspended load without twisting load chain.

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	Housing Length	Housing Width	Housing Depth	10 ft LIFT Item No.	20 ft LIFT Item No.
500 lb	27 lb	10 in	4 ¼ in	3 ¾ in	7 ½ in	**48RD59**	—
1,000 lb	50 lb	10 ¾ in	5 ¼ in	5 in	5 ¼ in	**2YAY4**	**2YAY5**
2,000 lb	66 lb	12 ½ in	6 ½ in	6 ¼ in	5 ½ in	**2YAY6**	**2YAY7**
3,000 lb	70 lb	15 ¾ in	7 ¼ in	7 ½ in	6 ¼ in	**2YAY8**	**2YAY9**
4,000 lb	77 lb	16 ¼ in	8 in	7 ½ in	6 ¼ in	**2YAZ1**	**2YAZ2**
6,000 lb	60 lb	18 ¼ in	7 in	8 ¼ in	6 ¼ in	**2YAZ3**	**2YAZ4**
10,000 lb	90 lb	25 in	9 in	10 in	7 ¼ in	**2YAZ5**	**2YAZ6**
20,000 lb	86 lb	29 ½ in	10 in	14 ¾ in	7 ¼ in	**2YAZ7**	**2YAZ8**
40,000 lb	112 lb	35 ½ in	13 in	25 ½ in	8 ½ in	**2YAZ9**	**2YCA1**
60,000 lb	112 lb	48 in	17 in	25 ¼ in	18 ¼ in	**2YCA2**	**2YCA3**

** Pulling force in pounds required to lift rated load.*

HARRINGTON A KITO GROUP COMPANY

500- and 1000-lb. LX Series Mini Ratchet Chain Pullers

- Rugged die-cast aluminum body with steel frame
- Weston-type load brake
- Compact, low headroom for use in tight quarters
- Strong hook latches with notched tip
- Nickel-plated, Grade 100 load chain
- Load-tested
- Meet ANSI/ASME B30.21 Standards

Designed for fine adjustment of load tension. Provide exceptional ratio of compact size to lifting power.

4ZY93

Load Capacity	Pull to Lift Rated Load	5 ft LIFT Item No.	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
500 lb	40 lb	**4ZY92**	**49CY80**	**49CY81**	**49CY82**
1,000 lb	62 lb	**4ZY93**	**45NV38**	**45NV39**	**49CY83**

29XP45

Dayton

Lever-Operated 3/4- to 3-Ton Chain Pullers

- Powder-coat finish
- Ratch and pawl mechanical load brake
- Zinc-plated hardened steel chain
- Single reeved
- Available with Overload Protection
- Weston-type brake
- Meet ANSI/ASME B30.21 Standards

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	5 ft LIFT Item No.	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection						
1,500 lb	31 lb	12 51/64 in	**4ZX43**	**4ZX44**	**48ME55**	**4ZX45**
3,000 lb	49 lb	15 3/4 in	**4ZX46**	**4ZX47**	**48ME56**	**4ZX48**
6,000 lb	71 lb	20 15/32 in	**5HT16**	**4ZX49**	**48ME57**	**4ZX50**
Overload Protection						
1,500 lb	31 lb	12 51/64 in	**29XP45**	**29XP46**	**49CX78**	**29XP47**
3,000 lb	49 lb	15 3/4 in	**29XP48**	**29XP49**	**49CX79**	**29XP50**
6,000 lb	71 lb	20 15/32 in	**29XP53**	**29XP51**	**49CX80**	**29XP52**

** Pulling force in pounds required to lift rated load.*

3TP95

Dayton

Lever-Operated 3/4- to 3-Ton Chain Pullers with Double Disc Brake

- Dual-stage reduction gearing
- Metric rating, 2200 lb./ton
- Hardened, Grade 80 steel load chain
- Load-tested
- Available with Overload Protection
- Meet ANSI/ASME B30.21 Standards

Double disc brake provides exact load positioning and tensioning. Capacity-adjusted handle force minimizes overloading. Short handle stroke with ribbed grip rotates 360°.

Flip selector to neutral for free chaining. Hardened swivel hooks with safety latches secure and align loads. Steel construction with zinc-/nickel-/chrome-plated finish.

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	5 ft LIFT Item No.	10 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection					
1,500 lb	42 lb	11 13/16 in	**3TP94**	**3TP92**	**3TP93**
3,000 lb	46 lb	14 3/8 in	**3TP97**	**3TP95**	**3TP96**
6,000 lb	68 lb	18 1/2 in	**3TR01**	**3TP98**	**3TP99**
Overload Protection					
1,500 lb	42 lb	11 13/16 in	**29XP38**	**29XP36**	**29XP37**
3,000 lb	46 lb	14 3/8 in	**29XP41**	**29XP39**	**29XP40**
6,000 lb	68 lb	18 1/2 in	**29XP44**	**29XP42**	**29XP43**

** Pulling force in pounds required to lift rated load.*

1TAJ4

HARRINGTON
A KITO GROUP COMPANY

Lever-Operated 3/4- to 9-Ton Chain Pullers

- Compact, steel body
- Weston-style load brake
- 360° hook rotation
- Dual-stage reduction gearing
- Hardened alloy steel, nickel-plated Grade 100 load chain
- Load-tested
- Use horizontally, vertically, inverted, or at any other load angle
- Meet ANSI/ASME B30.21 Standards
- Shipyard hooks are available on Grainger.com®

Spring-loaded, free-wheel device safeguards against accidental free wheeling. Designed with patented heat treating process on hooks to prevent fracturing under overloads. Durable internal components provide dropped load prevention in case of abuse.

Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	5 ft LIFT Item No.	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
No Overload Protection						
1500 lb	54 lb	11 in	**1TAH9**	**1TAJ1**	**23XR44**	**23XR45**
2000 lb	72 lb	11 13/16 in	**1TAJ2**	**1TAJ3**	**23XR48**	**23XR49**
3000 lb	64 lb	13 13/64 in	**1TAJ4**	**1TAJ5**	**23XR50**	**23XR51**
4000 lb	59 lb	14 13/16 in	**23XR57**	**23XR54**	**23XR55**	**23XR56**
5500 lb	81 lb	14 13/16 in	**1TAJ6**	**1TAJ7**	**23XR58**	**23XR59**
6000 lb	69 lb	15 39/64 in	**1TAJ8**	**1TAJ9**	**23XR60**	**23XR61**
12000 lb	72 lb	21 5/16 in	**23XR67**	**23XR64**	**23XR65**	**23XR66**
18000 lb	78 lb	26 13/16 in	**23XR75**	**23XR72**	**23XR73**	**23XR74**
Overload Protection						
1500 lb	36 lb	11 in	**6HJE8**	**6HJE9**	**23XR46**	**23XR47**
3000 lb	45 lb	13 13/64 in	**6HJF0**	**6HJF1**	**23XR52**	**23XR53**
6000 lb	69 lb	15 39/64 in	**6HJF2**	**6HJF3**	**23XR62**	**23XR63**
12000 lb	72 lb	21 5/16 in	**23XR71**	**23XR68**	**23XR69**	**23XR70**

** Pulling force in pounds required to lift rated load.*

5GAM7

OZ LIFTING PRODUCTS LLC

Lever-Operated 3/4- to 9-Ton Chain Pullers with Overload Protection

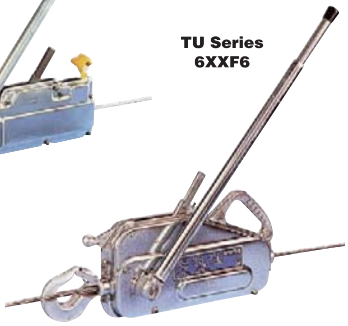
- Twin-pawl, weatherproof Weston-type load brake
- Zinc-plated steel chain
- Load-tested at 150% capacity
- Extra set of latches are included
- Meet CE, AS 1418.2 and ANSI B30.21 Standards

When activated, factory-set overload protection will not let hoist operate, but allows operator to lower the load. Feature safety chain stop, rubber grip, and fully enclosed lift wheel that protects gears. Powder-coat finish.

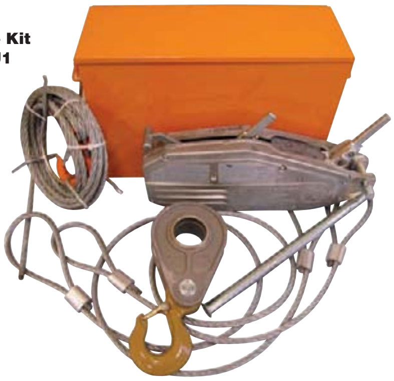
Load Capacity	Pull to Lift Rated Load*	Min. Between Hooks	5 ft LIFT Item No.	10 ft LIFT Item No.	15 ft LIFT Item No.	20 ft LIFT Item No.
1,500 lb	31 lb	12 13/16 in	**5GAM7**	**5GAM8**	**5GAM9**	**5GAN0**
3,000 lb	48 lb	15 in	**5GAN1**	**5GAN2**	**5GAN3**	**5GAN4**
6,000 lb	71 lb	18 7/8 in	**5GAN5**	**5GAN6**	**5GAN7**	**5GAN8**
12,000 lb	75 lb	24 3/8 in	**5GAN9**	**5GAP0**	**5GAP1**	**5GAP2**
18,000 lb	80 lb	27 9/16 in	**5GAP3**	**5GAP4**	**5GAP5**	**5GAP6**

** Pulling force in pounds required to lift rated load.*

T500 Series
6XXG2



TU Series
6XXF6



Rescue Kit
6XXJ1

Tractel®

Griphoist/Tirfor Cable Hoists

Manual Cable Hoists—Portable, safe, reliable, and efficient lever-operated wire rope hoist with traversing wire rope. One-person operation allows lifting, pulling, or placing loads without exceeding maximum working load limit. .

- Overload protection
- No wire rope length limit
- Meet ASME/ANSI B30-21 Standards

Cable Hoist Rescue Kits—Include steel box with 60-ft. galvanized wire rope, telescopic handle for hoist, snatch block pulley, 6-ft. wire rope sling with choker hook, and 6-ft. and 9-ft. wire rope slings.

Lifting Capacity	Cable Length	Min. Between Hooks	Hook Opening	Item No.
Manual Cable Hoists				
T500 Series				
2,000 lb	30 ft	20 ½ in	1 in	**6XXG2**
4,000 lb	60 ft	26 in	1 in	**6XXG3**
8,000 lb	30 ft	29 in	1 in	**6XXG4**
TU Series				
2,000 lb	30 ft	28 ½ in	1 in	**6XXF6**
4,000 lb	60 ft	36 ½ in	1 in	**6XXF8**
8,000 lb	30 ft	32 ½ in	1 in	**6XXG0**
Rescue Kits				
2,000 lb	60 ft	—	1 in	**6XXJ1**
4,000 lb	60 ft	—	1 in	**6XXJ2**
8,000 lb	60 ft	—	1 in	**6XXJ3**

Cable Ratchet
Puller
61LA35

Web Ratchet
Puller
61LA37

Rope Ratchet
Puller
52ND09

Ratchet Pullers

Dayton® WESTWARD® MAASDAM POW'R-PULL

Use to assist with efficient lifting, towing, pulling and tensioning. Large ratchet diameter with high tooth count permits accurate positioning of loads. Zinc plated, heat treated steel latch hooks resist corrosion.

CABLE PULLERS

- Meet ASME B30.21 Standards

Positive locking ratchet mechanism on Dayton models. Dual interlocking ratchet-drive design on Westward models that centers load stresses across unit for easier operation while lifting or pulling. Heavy-duty aircraft cable helps withstand high tension and heavy loads. $\frac{3}{16}$" cable dia.; except 61LA34 is ¼".

WEB PULLER

- Meets ASME B30.21 Standards

Dual interlocking ratchet drive mechanism for long-lasting durability in electrical utility work, construction, and industrial maintenance/repair operations. 1⅛"W nylon strap.

ROPE PULLERS

Ideal for recovering vehicles, securing material to trucks, handling logs and stumps, moving boats and trailers, transporting furniture, and clearing debris. Single interlocking ratchet design. Can accommodate an unlimited length of ½" dia. rope.

Description	Lifting Capacity	Pull Capacity	Min. Between Hooks	Hook Opening	Brand	Item No.
Cable Ratchet Puller						
With 6 ft. cable	1,000 lb	1,000 lb	21 in	⅞ in	Dayton	**61LA32**
With 7 ½ ft. cable	1,500 lb	1,500 lb	21 in	⅞ in	Westward	**61LA36**
With 15 ft; 7 ½ ft. cable	1,000 lb, 2,000 lb	1,000 lb, 2,000 lb	24 in	⅞ in	Dayton	**61LA33**
With 15 ft. cable	1,000 lb	1,000 lb	16 in	¾ in	Westward	**61LA35**
With 20 ft; 10 ft. cable	1,000 lb, 2,000 lb	1,000 lb, 2,000 lb	19 in	⅞ in	Dayton	**61LA34**
Web Ratchet Puller						
Without cable	—	1,000 lb	17 in	⅞ in	Westward	**61LA37**
Rope Ratchet Puller						
Without Rope	15 lb	1,500 lb	8 in	1 in	Maasdam	**52ND07**
With 20 ft. rope	15 lb	1,500 lb	8 in	1 in	Maasdam	**52ND08**
With 50 ft. rope	15 lb	1,500 lb	8 in	1 in	Maasdam	**52ND09**
With 100 ft. rope	15 lb	1,500 lb	8 in	1 in	Maasdam	**52ND10**

25K805

Quick-Install Push Trolleys

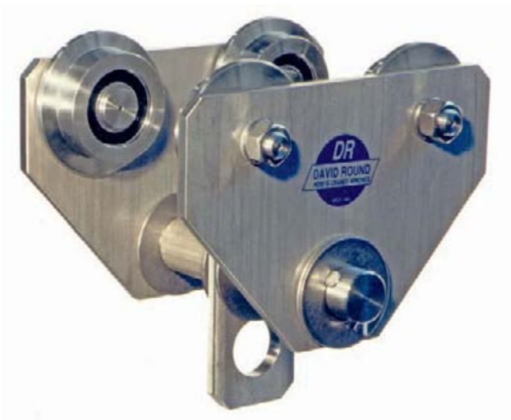
Dayton

- Sealed bearings
- Include suspension bail

Attach lifting devices such as hoists to portable gantry cranes of permanent workstations. Steel trolleys utilize a manual screw to adjust flange width or tighten to keep trolley stationary. Accidental changes in trolley width are avoided through the use of a locking ring.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
With Bail						
1,000 lb	3 in to 15 in	2⅜ in to 5⅝ in	18 ⅝ in	5 in to 6 ⅛ in	2 3⁄16 in	**55HE58**
2,000 lb	5 in to 24½ in	3 in to 8 in	27 ⅝ in	5 9⁄16 in to 7 ¼ in	2 11⁄16 in	**55HE59**
With Clamp						
2,000 lb	—	2½ in to 8 in	—	6 5⁄16 in	2 11⁄16 in	**25K805**
4,000 lb	—	3 in to 8 in	—	6 in	3 ⅛ in	**25K806**
6,000 lb	—	3 in to 8 in	—	5 15⁄16 in	3 15⁄16 in	**25K807**
10,000 lb	—	4 in to 12 in	—	7 11⁄16 in	4 ¾ in	**25K808**
20,000 lb	—	6 in to 12 in	—	7 1/6 in	5 15⁄16 in	**25K809**

** Dimensions given are for minimum I-beam and will vary with larger beams.*



6XTG8

DAVIDROUND
Engineered Handling Solutions Since 1869

Stainless Steel Trolleys

- FDA-Approved bearings and lubricants
- Meet ANSI/ASME B30.16 Standards

Ideal for washdown production areas. Sealed bearings for low- and high-temperature environments.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Head Room To Bail	Trolley Wheel Dia.	Item No.
2,000 lb	5 in to 18 in	3 in to 6 in	6 in	3 ¼ in	**6XTG8**
3,000 lb	6 in to 24 in	3 5⁄16 in to 7 in	6 in	3 ¼ in	**6XTG9**
4,000 lb	6 in to 24 in	3 5⁄16 in to 7 in	6 in	3 ¼ in	**6XTH0**

** Dimensions given are for minimum I-beam and will vary with larger beams.*

55HE63

Easy-Rolling Push Trolleys

Dayton

- Use with electric, air, and manual hoists
- Fit flange widths up to 6"
- Sealed precision bearings

Maintenance-free trolleys have solid machined cast-iron wheels. Self-aligning, wraparound side plates prevent falls in case of wheel failure.

Load Capacity	Fits Beam Height	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
1,000 lb	3 in to 15 in	2⅜ in to 5⅝ in	23 ⅝ in	1 ⅝ in	2 3⁄16 in	**55HE63**
2,000 lb	5 in to 24½ in	3 in to 8 in	31 ½ in	1 27⁄32 in	2 ¾ in	**55HE64**
4,000 lb	6 in to 24½ in	3⅝ to 8 in	39 ⅜ in	1 15⁄16 in	3 11⁄32 in	**55HE65**

** Dimensions given are for minimum I-beam and will vary with larger beams.*

36T678

Dayton

Geared Beam Trolleys

Gearing provides positive load positioning along the beam. Lightweight trolleys fit most I-, S-, and W-beams. Designed with durable baked enamel paint protection and precision ball bearing wheels. Feature antidrop plate and individual ID tag. Individual test certificate and serial number included.

Load Capacity	Fits Beam Flange W*	Min. Radius Curve	Head Room To Bail	Trolley Wheel Dia.	Item No.
2,000 lb	2½ in to 8 in	39 in	4 29⁄32 in	2 31⁄64 in	**36T678**
4,000 lb	3½ in to 8 in	51 in	6 5⁄64 in	2 11⁄16 in	**36T679**
6,000 lb	3½ in to 8 in	59 in	7 ¼ in	2 ⅝ in	**36T680**
10,000 lb	4½ in to 8 in	63 in	9 3⁄32 in	3 55⁄64 in	**36T681**
20,000 lb	5 in to 8 in	118 in	8 5⁄16 in	5 19⁄64 in	**36T682**
40,000 lb	8¼ in to 13 in	157 in	9 61⁄64 in	6 11⁄16 in	**36T683**
60,000 lb	5½ in to 13 in	197 in	15 11⁄32 in	7 53⁄64 in	**36T684**

** Dimensions given are for minimum I-beam and will vary with larger beams.*

Caution! Obtain professional structural engineering assistance to determine load carrying capability of new and existing structural steel beam work.

Dayton HARRINGTON

Beam Clamps

- For commercial, construction, and industrial applications
- Adjustable to fit a wide range of beam sizes

Provide a temporary or permanent mount to tapered or flat I-beams. In addition, they position the load beneath the center of the I-beam. Designed to reduce I-beam stress by applying the load inside of the flange edge. Include suspension bar. Comply with ASME Standards.

4ZW25

Safe Working Load	Jaw Cap.	Brand	Item No.
2,000 lb	3 in to 7½ in	Harrington	**23XT08**
	3 in to 9 in	Dayton	**3KR11**
4,000 lb	3 in to 9 in	Dayton	**3KR12**
	3 in to 7½ in	Harrington	**23XT09**
6,000 lb	3 3/16 in to 12 19/32 in	Dayton	**3KR13**
	4 in to 12 in	Harrington	**23XT10**
10,000 lb	3 3/16 in to 12 19/32 in	Dayton	**4ZW25**
	4 in to 12 in	Harrington	**23XT11**
20,000 lb	6 in to 13¼ in	Harrington	**6HJH8**

HARRINGTON

½- to 10-Ton Push Trolleys

- Load equalizing suspension
- Maintenance-free sealed ball bearings
- Fit both tapered and flat-flanged beams
- Meet ANSI/ASME B30.11 Standards

23XR94

Feature specially designed contoured wheels that fit both tapered and flat flange beams. Load equalizing suspension distributes the load to all wheels. Sealed precision ball bearings are lubed for life and offer smooth movement, with low friction and long life.

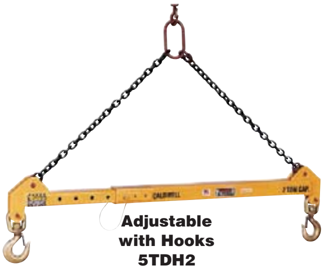
Load Capacity	Fits Beam Flange W	Min. Radius Curve	Head Room To Bail	Item No.
1,000 lb	2 9/32 to 4 in	13 7/8 in	3 7/8 in	**23XR96**
2,000 lb	2 9/32 in to 5 in	17 3/4 in	4 1/4 in	**23XR97**
4,000 lb	3 15/64 in to 6 1/64 in	21 3/4 in	5 1/8 in	**23XR98**
6,000 lb	3 15/64 in to 6 1/64 in	25 3/4 in	6 7/8 in	**23XR99**
10,000 lb	4 59/64 in to 8 21/32 in	78 7/8 in	3 7/8 in	**23XT01**
16,000 lb	5 1/2 in to 8 21/32 in	118 1/8 in	4 5/8 in	**23XR94**
20,000 lb	5 1/2 in to 8 21/32 in	118 1/8 in	4 5/8 in	**23XR95**

Caldwell

Lifting and Spreader Beams

Provide safer lifting and movement for long, heavy objects with hoist or lifting equipment and a single-hook, point-of-lifting contact. Beams comply with ASME Standards.

Working Load Limit	Max. Spread	Min. Spread	Headroom	Overall Length	Item No.
Adjustable Spreader Beams w/Hooks					
4,000 lb	72 in	48 in	48 to 57 in	72 in	**5TDH2**
	120 in	72 in	72 to 88 in	120 in	**5TDH3**
	240 in	144 in	132 to 166 in	240 in	**5TDH5**
10,000 lb	72 in	48 in	55 to 64 in	72 in	**5TDH6**
	120 in	72 in	79 to 95 in	120 in	**5TDH7**
	168 in	96 in	102 to 126 in	168 in	**5TDH8**
	240 in	144 in	138 to 172 in	240 in	**5TDH9**
20,000 lb	72 in	48 in	60 to 69 in	72 in	**5TDJ0**
	120 in	72 in	74 to 111 in	120 in	**5TDJ1**
	168 in	96 in	108 to 132 in	168 in	**5TDJ2**
30,000 lb	72 in	48 in	64 to 72 in	72 in	**5TDJ4**
	168 in	96 in	111 to 135 in	168 in	**5TDJ6**



Adjustable with Hooks
5TDH2

Nonconductive
8N230

Working Load Limit	Max. Spread	Min. Spread	Headroom	Overall Length	Item No.
Nonconductive Battery Spreader Beams					
4,800 lb	36 in	36 in	29 in	36 in	**9G315**
	42 in	30 in	39 in	36 in	**8N230**
7,000 lb	36 in	36 in	30 in	36 in	**8RH01**
	42 in	30 in	40 ½ in	36 in	**8AJD4**
	45 in	24 in	18 ¼ in	50 in	**5TDK2**

Caldwell

Composite Lifting and Spreader Beams

Beams are designed with an innovative composite material that is bonded together to form lightweight lifting products. Nonconductive, noncorrosive, and less than half the weight of steel. Meet ASME Standards.

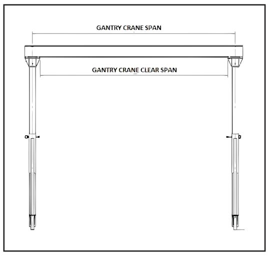
Working Load Limit	Max. Spread	Headroom	Usable Upper Bail Length	Usable Upper Bail Width	Overall Length	Item No.
Lifting Beams						
500 lb	24 in	13 ½ in	2 in	1 ½ in	24 in	**39RK28**
	36 in	13 ½ in	2 in	1 ½ in	36 in	**39RK53**
	48 in	13 ½ in	2 in	1 ½ in	48 in	**39RK68**
	72 in	16 ½ in	2 in	1 ½ in	72 in	**39RK14**
	96 in	16 ½ in	2 in	1 ½ in	96 in	**39RK29**
1,000 lb	24 in	13 15/16 in	1 15/16 in	1 ½ in	24 in	**39RJ95**
	36 in	13 15/16 in	1 15/16 in	1 ½ in	36 in	**39RK72**
	48 in	14 15/16 in	1 15/16 in	1 ½ in	48 in	**39RK40**
	72 in	16 15/16 in	1 15/16 in	1 ½ in	72 in	**39RK62**
	96 in	18 15/16 in	1 15/16 in	1 ½ in	96 in	**39RK61**
2,000 lb	24 in	19 5/8 in	4 ½ in	2 13/16 in	24 in	**39RK23**
	36 in	19 5/8 in	4 ½ in	2 13/16 in	36 in	**39RJ94**
	48 in	21 5/8 in	4 ½ in	2 13/16 in	48 in	**39RK43**
	72 in	23 5/8 in	4 ½ in	2 13/16 in	72 in	**39RK75**
4,000 lb	24 in	21 15/16 in	4 5/16 in	2 13/16 in	24 in	**39RK39**
	36 in	24 1/8 in	4 5/16 in	2 13/16 in	36 in	**39RK51**
	48 in	25 15/16 in	4 5/16 in	2 13/16 in	48 in	**39RK22**
6,000 lb	24 in	24 15/16 in	4 5/16 in	2 13/16 in	24 in	**39RK46**
	36 in	24 15/16 in	4 5/16 in	2 13/16 in	36 in	**39RK32**
Spreader Beams						
500 lb	24 in	24 in	5 in	2 13/16 in	24 in	**39RK08**
	36 in	30 in	5 in	2 13/16 in	36 in	**39RK17**
	48 in	36 in	5 in	2 13/16 in	48 in	**39RK21**
	72 in	48 in	5 in	2 13/16 in	72 in	**39RK07**
	96 in	60 in	5 in	2 13/16 in	96 in	**39RK25**

39RK28

39RK08

Working Load Limit	Max. Spread	Headroom	Usable Upper Bail Length	Usable Upper Bail Width	Overall Length	Item No.
1,000 lb	24 in	24 ½ in	5 in	2 13/16 in	24 in	**39RK20**
	36 in	30 ½ in	5 in	2 13/16 in	36 in	**39RK27**
	48 in	36 ½ in	5 in	2 13/16 in	48 in	**39RK26**
	72 in	48 ½ in	5 in	2 13/16 in	72 in	**39RK18**
	96 in	62 in	5 in	2 13/16 in	96 in	**39RK09**
2,000 lb	24 in	25 in	5 in	2 13/16 in	24 in	**39RK31**
	36 in	31 in	5 in	2 13/16 in	36 in	**39RK54**
	48 in	37 in	5 in	2 13/16 in	48 in	**39RK65**
	72 in	51 in	5 in	2 13/16 in	72 in	**39RK57**
	96 in	64 in	5 in	2 13/16 in	96 in	**39RK50**
4,000 lb	24 in	27 in	5 in	2 13/16 in	24 in	**39RK03**
	36 in	33 in	5 in	2 13/16 in	36 in	**39RK34**
	48 in	40 in	5 in	2 13/16 in	48 in	**39RK56**
	72 in	53 in	5 in	2 13/16 in	72 in	**39RJ96**
	96 in	65 in	5 in	2 13/16 in	96 in	**39RK33**
6,000 lb	24 in	27 in	5 in	2 13/16 in	24 in	**39RK10**
	36 in	33 in	5 in	2 13/16 in	36 in	**39RK13**
	48 in	42 in	5 in	2 13/16 in	48 in	**39RK42**
	72 in	54 in	5 in	2 13/16 in	72 in	**39RK35**

Adjustable- and Fixed-Height Gantry Cranes



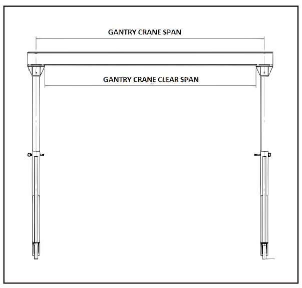
- Balanced design for easy rolling even under load
- Simple, bolt-together construction
- Easy set-up and maintenance
- Conform to AISC, OSHA, and CMAA Specifications

Adjustable-Height Aluminum—Lightweight, all-aluminum gantry cranes are perfect for applications where crane weight is critical. Height and span are adjustable. Height adjusts down from maximum in 6" increments.
- 4 phenolic swivel casters

Adjustable-Height Steel—Heavy-duty, supported leg design. Adjustable span on 10- to 16-ft. models. Height adjusts down from maximum in 12" increments.
- 4 steel swivel casters

Fixed-Height Steel—Designed with supported legs for heavy-duty applications. Adjustable span is standard. Assembly instructions provided.
- 4 steel swivel casters

Load Capacity	Min. I Beam Height	Max. I Beam Height	Gantry Crane Span	Gantry Crane Clear Span	I Beam Height	I Beam Flange Width	Wheel Dia.	Item No.
Adjustable-Height Aluminum - DAYTON								
2000 lb	92 in	122 in	6 ft 10 in	6 ft	6.0 in	3.3 in	8 in	**4EER2**
	92 in	122 in	6 ft 7 in	6 ft	6.0 in	3.44 in	8 in	**55AJ07**
	92 in	122 in	8 ft 8 in	8 ft	6.0 in	3.44 in	8 in	**55AJ08**
	92 in	122 in	10 ft 8 in	10 ft	8.0 in	4.0 in	8 in	**55AJ09**
	114 in	144 in	8 ft 8 in	8 ft	6.0 in	3.44 in	8 in	**55AJ10**
4000 lb	92 in	122 in	7 ft 2 in	6 ft 4 in	8.0 in	4.0 in	8 in	**55AJ11**
	92 in	122 in	11 ft 2 in	10 ft 4 in	8.0 in	4.0 in	8 in	**55AJ12**
	114 in	144 in	11 ft 2 in	10 ft 4 in	8.0 in	4.0 in	8 in	**55AJ13**
Adjustable-Height Steel - CALDWELL								
2000 lb	70 13⁄16 in	108 in	14 ft 11½ in	14 ft 4 in	8.0 in	4.0 in	6 in	**40M901**
	72 in	108 in	12 ft 11½ in	12 ft 5 in	8.0 in	4.0 in	6 in	**40M899**
	84 in	120 in	10 ft 11½ in	10 ft 5 in	6.0 in	3.33 in	6 in	**40M905**
	88 13⁄16 in	144 in	14 ft 11½ in	14 ft 4 in	8.0 in	4.0 in	6 in	**40M913**
	96 in	144 in	10 ft 11½ in	10 ft 5 in	6.0 in	3.33 in	6 in	**40M911**
	96 in	144 in	12 ft 11½ in	12 ft 5 in	8.0 in	4.0 in	6 in	**40M912**
	108 in	168 in	10 ft 11½ in	10 ft 5 in	6.0 in	3.33 in	6 in	**40M917**
4000 lb	74 13⁄32 in	108 in	10 ft 11½ in	10 ft 5 in	8.0 in	4.0 in	8 in	**40M935**
	86 13⁄32 in	120 in	10 ft 11½ in	10 ft 5 in	8.0 in	4.0 in	8 in	**40M941**
	92 in	144 in	14 ft 11½ in	14 ft 4 in	10.0 in	4.66 in	8 in	**40M949**
	98 in	144 in	10 ft 11½ in	10 ft 5 in	8.0 in	4.0 in	8 in	**40M947**
	98 in	144 in	12 ft 11½ in	12 ft 5 in	8.0 in	4.0 in	8 in	**40M948**
	104 13⁄16 in	168 in	14 ft 11½ in	14 ft 4 in	10.0 in	4.66 in	8 in	**40M955**
	110 13⁄32 in	168 in	10 ft 11½ in	10 ft 5 in	8.0 in	4.0 in	8 in	**40M953**
	110 13⁄32 in	168 in	12 ft 11½ in	12 ft 5 in	8.0 in	4.0 in	8 in	**40M954**
	128 13⁄16 in	192 in	12 ft 11½ in	12 ft 4 in	8.0 in	4.0 in	8 in	**21ZF10**
6000 lb	84 in	120 in	10 ft 5½ in	9 ft 5 in	10.0 in	4.66 in	8 in	**40M977**
	106 13⁄16 in	168 in	14 ft 5½ in	9 ft 5 in	10.0 in	4.66 in	8 in	**40M991**
	108 in	168 in	10 ft 5½ in	9 ft 5 in	10.0 in	4.66 in	8 in	**40M989**
	108 in	168 in	12 ft 5½ in	11 ft 5 in	10.0 in	4.66 in	8 in	**40M990**
8000 lb	94 13⁄16 in	144 in	14 ft 5½ in	13 ft 4 in	12.0 in	5.5 in	8 in	**40N022**
	96 in	144 in	10 ft 5½ in	9 ft 5 in	10.0 in	4.66 in	8 in	**40N020**
	106 13⁄16 in	168 in	14 ft 5½ in	13 ft 4 in	12.0 in	5.5 in	8 in	**40N028**
	108 in	168 in	20 ft 4 in	19 ft 5 in	15.0 in	5.5 in	8 in	**40N030**
10000 lb	108 in	168 in	10 ft 5½ in	9 ft 5 in	12.0 in	5.5 in	8 in	**40N062**
Fixed-Height Steel - CALDWELL								
2000 lb	120 in	120 in	12 ft 11 in	12 ft 4 in	8.0 in	4.0 in	6 in	**40M748**
	120 in	120 in	14 ft 11 in	14 ft 4 in	8.0 in	4.0 in	6 in	**40M749**
	120 in	120 in	10 ft 11 in	10 ft 4 in	6.0 in	3.33 in	6 in	**40M747**
	144 in	144 in	12 ft 11 in	12 ft 4 in	8.0 in	4.0 in	6 in	**40M754**
4000 lb	120 in	120 in	12 ft 11 in	12 ft 4 in	8.0 in	4.0 in	8 in	**40M772**
	120 in	120 in	14 ft 11 in	14 ft 4 in	10.0 in	4.66 in	8 in	**40M773**
	144 in	144 in	12 ft 11 in	12 ft 4 in	8.0 in	4.0 in	8 in	**40M778**
	192 in	192 in	16 ft 11 in	16 ft 4 in	10.0 in	4.66 in	8 in	**40M792**
10000 lb	120 in	120 in	10 ft 4½ in	9 ft 4 in	12.0 in	5.5 in	8 in	**40M844**
	192 in	192 in	14 ft 4½ in	13 ft 4 in	15.0 in	5.5 in	8 in	**40M864**
16000 lb	192 in	192 in	20 ft	18 ft 6 in	16.43 in	7.12 in	8 in	**40M890**



Portable Steel and Aluminum Gantry Cranes

- 4 swivel casters
- 2 uprights and 1 crossbar I-beam

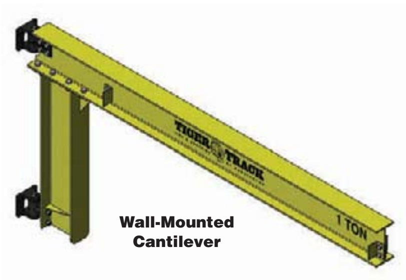
Accept most manual and electric hoists and trolleys (not included). Ship unassembled.

Heavy-Duty Steel—Casters feature a 4-position swivel lock in 90° intervals.

Heavy-Duty Aluminum—Suitable for two-person assembly in the field or where repeated assembly and knock-down is required. Pinned-together modular design completely disassembles. Casters feature 4-position swivel locks in 90° intervals.

Adjustable-Height Models—Adjust in 6" increments by using come-along, fork truck, or overhead crane (not included). Uprights have ratchet puller/come-along attachment points.

Load Capacity	Min. I Beam Height	Max. I Beam Height	Gantry Crane Span	Gantry Crane Clear Span	I Beam Height	I Beam Flange Width	Wheel Dia.	Color	Item No.
Fixed-Height Heavy-Duty Steel									
2,000 lb	90 in	90 in	6 ft	5 ft 9 in	4.0 in	2.66 in	5 in	Blue	**48TC36**
	120 in	120 in	10 ft	7 ft 6 in	6.0 in	4.0 in	8 in	Blue	**48TC30**
	120 in	120 in	20 ft	17 ft 6 in	10.0 in	4.0 in	8 in	Blue	**48TC31**
4,000 lb	120 in	120 in	10 ft	7 ft 6 in	8.0 in	4.0 in	8 in	Blue	**48TC32**
Adjustable-Height Heavy-Duty Steel									
2,000 lb	90 in	144 in	10 ft	7 ft 6 in	6.0 in	4.0 in	8 in	Blue	**48TC25**
	102 in	168 in	15 ft	12 ft 6 in	6.0 in	4.0 in	8 in	Blue	**48TC27**
	114 in	169 in	10 ft	7 ft 6 in	6.0 in	4.0 in	8 in	Blue	**48TC26**
4,000 lb	90 in	144 in	10 ft	7 ft 6 in	8.12 in	4.0 in	8 in	Blue	**48TC28**
	102 in	168 in	10 ft	7 ft 6 in	8.12 in	4.0 in	8 in	Blue	**48TC29**
Adjustable-Height Heavy-Duty Aluminum									
2,000 lb	114 in	144 in	8 ft	6 ft	6.0 in	3.31 in	8 in	Gray	**48TC23**
	114 in	144 in	12 ft	10 ft	8.0 in	4.0 in	8 in	Gray	**48TC22**
4,000 lb	92 in	122 in	10 ft	8 ft	8.0 in	4.19 in	8 in	Gray	**48TC24**



Jib Cranes and Mounting Kits

Caldwell
HARRINGTON A KITO GROUP COMPANY

Cranes accommodate most standard trolleys that support electric or manual hoists. Anchor bolts not included. Mounting kits support hoists and trolleys (not included).

WALL-MOUNTED

Rotate up to 180° in large applications. Up to 35-ft. span on tie rod style. Heavy-duty fittings made with roller bearings and zerk fitting for easy field lubrication. Easily mount to reinforced columns or walls. Include beam with end stops, fitting kit, and assembly hardware. Painted safety yellow.

BASE-MOUNTED PILLARS

Rotate 360° on tapered roller bearings with self-aligning guide rollers. Heavy gussets reinforce base plates to ensure alignment and rigidity. Rolled steel, wide-flange beams provide smooth trolley travel, with stops at both ends. Concrete footing required.

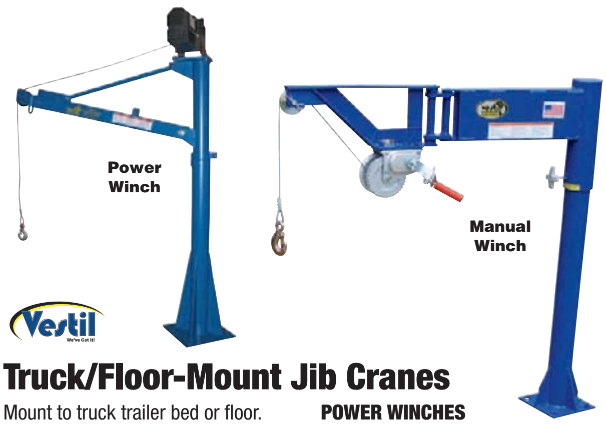
Cap.	Reach	Brand	Item No.
Wall Mounted			
Tie Rod			
1,100 lb	10 ft	Harrington	**48ZG92**
1,100 lb	14 ft	Harrington	**48ZG93**
2,200 lb	14 ft	Harrington	**48ZG94**
2,200 lb	20 ft	Harrington	**48ZG95**
Cantilever			
550 lb	10 ft	Harrington	**48ZH03**
1,100 lb	10 ft	Harrington	**48ZG96**
1,100 lb	14 ft	Harrington	**48ZG97**
2,200 lb	10 ft	Harrington	**48ZG98**
2,200 lb	14 ft	Harrington	**48ZG99**
4,400 lb	10 ft	Harrington	**48ZH01**
4,400 lb	14 ft	Harrington	**48ZH02**

Reach	Height Under Span	Brand	Item No.
Base Mounted			
500 lb Capacity			
8 ft	8 ft	Caldwell	**40M367**
	10 ft	Caldwell	**40M374**
	12 ft	Caldwell	**40M381**
	14 ft	Caldwell	**40M388**
	16 ft	Caldwell	**40M395**
	18 ft	Caldwell	**40M403**
	20 ft	Caldwell	**40M410**
10 ft	8 ft	Harrington	**48ZH16**
	10 ft	Harrington	**48ZH15**
	12 ft	Caldwell	**40M382**
	14 ft	Caldwell	**40M389**
	16 ft	Caldwell	**40M396**
	18 ft	Caldwell	**40M404**
	20 ft	Caldwell	**40M411**
12 ft	8 ft	Caldwell	**40M369**
	10 ft	Harrington	**48ZH17**
	12 ft	Caldwell	**40M383**
	14 ft	Caldwell	**40M390**
	16 ft	Caldwell	**40M397**
	18 ft	Caldwell	**40M405**
	20 ft	Caldwell	**40M412**
14 ft	8 ft	Caldwell	**40M370**
	10 ft	Caldwell	**40M377**
	12 ft	Caldwell	**40M384**
	14 ft	Caldwell	**40M391**
	16 ft	Caldwell	**40M398**
	18 ft	Caldwell	**40M406**
	20 ft	Caldwell	**40M413**
16 ft	8 ft	Caldwell	**40M371**
	10 ft	Caldwell	**40M378**
	12 ft	Caldwell	**40M385**
	14 ft	Caldwell	**40M392**
	16 ft	Caldwell	**40M399**
	18 ft	Caldwell	**40M407**
	20 ft	Caldwell	**40M414**
18 ft	8 ft	Caldwell	**40M372**
	10 ft	Caldwell	**40M379**
	12 ft	Caldwell	**40M386**
	14 ft	Caldwell	**40M393**
	16 ft	Caldwell	**40M401**
	18 ft	Caldwell	**40M408**
	20 ft	Caldwell	**40M415**
20 ft	8 ft	Caldwell	**40M373**
	10 ft	Caldwell	**40M380**
	12 ft	Caldwell	**40M387**
	14 ft	Caldwell	**40M394**
	16 ft	Caldwell	**40M402**
	18 ft	Caldwell	**40M409**
	20 ft	Caldwell	**40M416**
1000 lb Capacity			
8 ft	8 ft	Harrington	**48ZH10**
	10 ft	Caldwell	**40M424**
	12 ft	Caldwell	**40M431**
	14 ft	Caldwell	**40M438**
	16 ft	Caldwell	**40M445**
	18 ft	Caldwell	**40M452**
	20 ft	Caldwell	**40M459**
10 ft	8 ft	Harrington	**48ZH05**
	10 ft	Harrington	**48ZH04**
	12 ft	Caldwell	**40M432**
	14 ft	Caldwell	**40M439**
	16 ft	Caldwell	**40M446**
	18 ft	Caldwell	**40M453**
	20 ft	Caldwell	**40M460**
12 ft	8 ft	Caldwell	**40M419**
	10 ft	Harrington	**48ZH07**
	12 ft	Caldwell	**40M433**
	14 ft	Caldwell	**40M440**
	16 ft	Caldwell	**40M447**
	18 ft	Caldwell	**40M454**
	20 ft	Caldwell	**40M461**
14 ft	8 ft	Caldwell	**40M420**
	10 ft	Harrington	**48ZH08**
	12 ft	Caldwell	**40M434**
	14 ft	Caldwell	**40M441**
	16 ft	Caldwell	**40M448**
	18 ft	Caldwell	**40M455**
	20 ft	Caldwell	**40M462**
16 ft	8 ft	Caldwell	**40M421**
	10 ft	Caldwell	**40M428**
	12 ft	Harrington	**48ZH09**
	14 ft	Caldwell	**40M442**
	16 ft	Harrington	**48ZH21**
	18 ft	Caldwell	**40M456**
	20 ft	Caldwell	**40M463**
18 ft	8 ft	Caldwell	**40M422**
	10 ft	Caldwell	**40M429**
	12 ft	Caldwell	**40M436**
	14 ft	Caldwell	**40M443**
	16 ft	Caldwell	**40M450**
	18 ft	Caldwell	**40M457**
	20 ft	Caldwell	**40M464**
20 ft	8 ft	Caldwell	**40M423**
	10 ft	Caldwell	**40M430**
	12 ft	Harrington	**48ZH22**
	14 ft	Caldwell	**40M444**
	16 ft	Caldwell	**40M451**
	18 ft	Caldwell	**40M458**
	20 ft	Caldwell	**40M465**
2000 lb Capacity			
8 ft	8 ft	Caldwell	**40M466**
	10 ft	Caldwell	**40M473**
	12 ft	Caldwell	**40M480**
	14 ft	Caldwell	**40M487**
	16 ft	Caldwell	**40M494**
	18 ft	Caldwell	**40M502**
	20 ft	Caldwell	**40M509**
10 ft	8 ft	Caldwell	**40M467**
	10 ft	Harrington	**48ZH12**
	12 ft	Harrington	**48ZH13**
	14 ft	Caldwell	**40M488**
	16 ft	Caldwell	**40M495**
	18 ft	Caldwell	**40M503**
	20 ft	Caldwell	**40M510**
12 ft	8 ft	Caldwell	**40M468**
	10 ft	Caldwell	**40M475**
	12 ft	Harrington	**48ZH23**
	14 ft	Caldwell	**40M489**
	16 ft	Caldwell	**40M496**
	18 ft	Caldwell	**40M504**
	20 ft	Caldwell	**40M511**
14 ft	8 ft	Caldwell	**40M469**
	10 ft	Caldwell	**40M476**
	12 ft	Caldwell	**40M483**
	14 ft	Harrington	**48ZH24**
	16 ft	Caldwell	**40M497**
	18 ft	Caldwell	**40M505**
	20 ft	Caldwell	**40M512**
18 ft	8 ft	Caldwell	**40M471**
	10 ft	Caldwell	**40M478**
	12 ft	Harrington	**48ZH25**
	14 ft	Caldwell	**40M492**
	16 ft	Caldwell	**40M499**
	18 ft	Caldwell	**40M507**
	20 ft	Caldwell	**40M514**
20 ft	8 ft	Caldwell	**40M472**
	10 ft	Caldwell	**40M479**
	12 ft	Harrington	**48ZH26**
	14 ft	Caldwell	**40M493**
	16 ft	Caldwell	**40M501**
	18 ft	Caldwell	**40M508**
	20 ft	Caldwell	**40M515**
4000 lb Capacity			
8 ft	8 ft	Caldwell	**40M516**
	10 ft	Caldwell	**40M521**
	12 ft	Caldwell	**40M528**
	14 ft	Caldwell	**40M535**
	16 ft	Caldwell	**40M542**
	18 ft	Caldwell	**40M549**
	20 ft	Caldwell	**40M556**
10 ft	8 ft	Caldwell	**40M517**
	10 ft	Harrington	**48ZH27**
	12 ft	Caldwell	**40M529**
	14 ft	Caldwell	**40M536**
	16 ft	Caldwell	**40M543**
	18 ft	Caldwell	**40M550**
	20 ft	Caldwell	**40M557**
12 ft	8 ft	Caldwell	**40M518**
	10 ft	Caldwell	**40M523**
	12 ft	Caldwell	**40M530**
	14 ft	Caldwell	**40M537**
	16 ft	Caldwell	**40M544**
	18 ft	Caldwell	**40M551**
	20 ft	Caldwell	**40M558**
14 ft	8 ft	Caldwell	**40M519**
	10 ft	Caldwell	**40M524**
	12 ft	Harrington	**48ZH28**
	14 ft	Harrington	**48ZH29**
	16 ft	Caldwell	**40M545**
	18 ft	Caldwell	**40M552**
	20 ft	Caldwell	**40M559**
16 ft	12 ft	Harrington	**48ZH30**
	14 ft	Caldwell	**40M539**
18 ft	12 ft	Harrington	**48ZH31**
	12 ft	Caldwell	**40M533**
	16 ft	Caldwell	**40M547**
	18 ft	Caldwell	**40M554**
	20 ft	Caldwell	**40M561**
20 ft	10 ft	Caldwell	**40M527**
	12 ft	Caldwell	**40M534**
	16 ft	Caldwell	**40M548**
	18 ft	Caldwell	**40M555**
	20 ft	Caldwell	**40M562**
6000 lb Capacity			
8 ft	12 ft	Harrington	**48ZH34**
10 ft	10 ft	Harrington	**48ZH32**
	10 ft	Caldwell	**40M564**
12 ft	12 ft	Caldwell	**40M572**
	16 ft	Caldwell	**40M586**
	18 ft	Caldwell	**40M593**
14 ft	14 ft	Harrington	**48ZH33**
16 ft	16 ft	Caldwell	**40M588**
10000 lb Capacity			
12 ft	16 ft	Caldwell	**40M627**

Steel Davit Cranes

Individually tested and certified at 125%. Each davit crane features 360° rotation with four different boom height adjustments. Optional AC and DC winches. Cranes include mounting base and steel cable.

Cap.	Lift Range	Finish	Base Type	115V AC OPERATION Item No.	12V DC OPERATION Item No.	MANUAL OPERATION Item No.
1,000 lb	0 in to 540 in	Zinc Plated	Socket Base	302J61	302J64	—
		Zinc Plated	Pedestal Base	302J62	302J63	—
		Zinc Plated	Wall Mount Base	321H28	321H29	—
	0 in to 660 in	Zinc Plated	Socket Base	—	—	302J59
		Zinc Plated	Pedestal Base	—	—	302J60
		Zinc Plated	Wall Mount Base	—	—	321H27



Truck/Floor-Mount Jib Cranes

Mount to truck trailer bed or floor. Crane swivels 360°, and boom manually telescopes. Steel construction with painted finish. Mounting base has predrilled holes (hardware not included).

MANUAL WINCH

- 8" x 8" base plate

Boom is raised with manual hydraulic hand pump. Cable winch raises and lowers the lifting hook.

POWER WINCHES

- 12" x 12" base plate

DC Models

50-ft., 3⁄16"-dia. wire cable and 12½-ft. power cord for attaching to truck battery (battery not included). Handheld remote control on 8-ft. cord.

AC Models

25-ft., ¼"-dia. wire cable and 9-ft. power cord have molded plug. They operate with toggle switch on side of winch.

Cap.	Reach	Lift Range	Item No.
Manual Winch			
400 lb	0 in to 38.5 in	0 in to 120 in	4ZB24
Power Winches, 12V DC			
1,500 lb	43.06 in to 66.75 in	47⅛ in to 73⁵⁄₁₆ in	4ZB22
2,000 lb	51.25 in to 87.25 in	59½ in to 106½ in	4ZB20
Power Winches, 115V AC			
1,500 lb	43.06 in to 66.75 in	48⅛ in to 73⁵⁄₁₆ in	4ZB23
2,000 lb	51.25 in to 87.25 in	59½ in to 106½ in	4ZB21

49P538
Base and Cable
Not Included

CompOZite Davit Cranes

DAVIT CRANES

Cranes use a combination of advanced composite materials and Mil-Spec, zinc-plated steel to create a light, long-lasting, and easy-to-use system for lifting. Composite material also has excellent corrosion resistance. Each crane is proof tested and includes a test certificate.

MOUNTING BASES

Include mounting pattern template. Wall-mount base has a 360° swivel angle.

CABLES

Galvanized assembly is good for general purpose use, and stainless steel is ideal for corrosive environments.

Cap.	Lift Range	Finish	Operation Mode	Item No.
Davit Cranes				
1,200 lb	0 in to 540 in	High Gloss	115V AC	48RD46
1,200 lb	0 in to 540 in	High Gloss	12V DC	48RD47
1,200 lb	0 in to 660 in	High Gloss	Manual	49P538

Description	Cap.	Finish	Item No.
Mounting Bases			
Socket Base	1,200 lb	Mil-Spec Zinc Plated	49P539
Pedestal Base	1,200 lb	Mil-Spec Zinc Plated	49P540
Wall Mount Base	1,200 lb	Powder Coated	53DN42

Cable Size	L	Working Load Limit	Material	Item No.
Cables for 49P538				
3⁄16 in	80 ft	800 lb	Galvanized Steel	49P541
3⁄16 in	80 ft	800 lb	Stainless Steel	49P542
¼ in	55 ft	1,200 lb	Galvanized Steel	49P543
¼ in	55 ft	1,200 lb	Stainless Steel	49P544

Description	Item No.
Cables for 48RD46, 48RD47	
Cable Assembly, Galvanized, 3⁄16" x 90 ft.	58RH60
Cable Assembly, Stainless Steel, 3⁄16" x 90 ft.	58RH61
Cable Assembly, Galvanized, ¼" x 45 ft.	58RH62
Cable Assembly, Stainless Steel, ¼" x 45 ft.	58RH63

Counterbalanced Mobile Floor Cranes

Counterbalanced design eliminates the need for front legs. Allows easier maneuverability in tight and hard-to-reach areas. Boom is raised with a manual hydraulic hand pump.

Cap.	Lifting Height Max. (in.)	Lifting Height Min. (in.)	Boom Length (in.)	Item No.
500	90 in	5 in	53½ a 77½	5XPG3
1,000	90 in	5 in	53½ a 77½	5XPG4
2,000	96 in	15 in	53½ a 77½	5XPG5

Handheld Vacuum Cups

Units feature a rubber platform, red-line vacuum indicator, check valve, and instant-release lift tabs. All except 55JG32 include carrying case.

55JG32

55JG33

Cup Size	Handle Material	Max. Load Capacity	Item No.
6 in Dia	ABS Plastic, Aluminum	60 lb	**55JG32**
8 in Dia	Fiber, Nylon	125 lb	**55JG33**
8 in Dia	Metal	125 lb	**55JG34**
9 in Dia	Metal	150 lb	**55JG35**
10 in Dia	Metal	175 lb	**55JG36**

Handheld Vacuum Cups

Attach to most nonporous surfaces without marring or scratching. For metal, glass, stone, concrete, laminates, and plastics. A finger-operated vacuum pump removes air from between the load and the rubber vacuum pad to hold the cup in place. A red-line indicator provides a visual warning if cup should lose holding power. Include a heavy plastic pad protector, except 2MDE3 and 2MDE4. 6A985 to 6A988 include a plastic carrying case.

2MDE3

2MDE4

6A984

6A988

Cup Size	Handle Material	Handle Type	Max. Load Capacity	Item No.
1½ in Dia	Polypropylene	Vertical Handle	3 lb	**2MDE3**
3 in x 6 in Oblong	Aluminum	T-Handle	40 lb	**2MDE4**
4½ in Dia	Aluminum	T-Handle	40 lb	**2MDE5**
6 in Dia	Metal	Vertical Handle	70 lb	**6A984**
6 in Dia	Aluminum	T-Handle	70 lb	**2MDE6**
8 in Dia	ABS Plastic	Horizontal Handle	125 lb	**6A985**
8 in Dia	Metal	Horizontal Handle	125 lb	**6A986**
9 in Dia	Metal	Horizontal Handle	150 lb	**6A987**
10 in Dia	Metal	Horizontal Handle	175 lb	**6A988**

Plate and Beam Clamps

Clamps are equipped with a safety mechanism, ensuring the clamp's gripping surface remains in contact with the plate when no load is applied or during no load conditions. All clamps are proof tested prior to shipment.

WARNING: Use the proper size clamp for the load. Lift only one plate at a time when using vertical plate lifting clamps. See the manufacturer's manual for additional warnings.

36G568

36G558

36G562

Locking Type	Lifting Point	Safe Working Load	Jaw Cap.	Pkg. Qty.	Item No.
Horizontal Lift					
Plate Clamps					
Load Activated	Shackle Eye	16,000 lb	0 in to 3 in	1	**48GP91**
Nonlocking	Load Ring	500 lb	0 in to 1 in	2	**36G568**
	Load Ring	1,000 lb	0 in to 2 in	2	**36G569**
	Load Ring	3,000 lb	0 in to 2 in	2	**36G571**
Vertical and 90 Lifting					
Plate Clamps					
Lock Closed	Load Ring	1,000 lb	0 in to ¾ in	1	**36G558**
	Load Ring	2,000 lb	0 in to ¾ in	1	**36G559**
	Load Ring	4,000 lb	0 in to 1 in	1	**36G560**
	Load Ring	6,000 lb	0 in to 1¼ in	1	**36G561**
Vertical Lift					
Beam Clamps					
Locking Screw	Load Ring	6,000 lb	3 in to 7½ in	1	**36G566**
	Load Ring	10,000 lb	6 in to 10 in	1	**36G567**
Plate Clamps					
Load Activated	Shackle Eye	1,000 lb	0 in to ⅝ in	1	**48GP78**
	Pivoting Shackle Eye	1,000 lb	0 in to ⅝ in	1	**48GP80**
	Shackle Eye	2,000 lb	0 in to ¾ in	1	**48GP79**
	Pivoting Shackle Eye	2,000 lb	0 in to ¾ in	1	**48GP81**
	Shackle Eye	4,000 lb	0 in to 1 in	1	**48GP82**
	Pivoting Shackle Eye	4,000 lb	0 in to 1 in	1	**48GP83**
	Shackle Eye	6,000 lb	0 in to 1 in	1	**48GP84**
	Pivoting Shackle Eye	6,000 lb	0 in to 1 in	1	**48GP85**
Vertical Lift with Side Pull					
Plate Clamps					
Load Activated	Pivoting Shackle Eye	1,000 lb	0 in to ⅝ in	1	**36G562**
	Pivoting Shackle Eye	2,000 lb	0 in to ¾ in	1	**36G563**
	Pivoting Shackle Eye	4,000 lb	0 in to 1 in	1	**36G564**
Locking Screw	Connecting Link	3,000 lb	0 in to 1¼ in	1	**36G577**
	Connecting Link	6,000 lb	0 in to 2 in	1	**36G578**
Vertical Only Lifting					
Plate Clamps					
Lock Closed	Load Ring	1,000 lb	0 in to ¾ in	1	**36G554**
	Load Ring	2,000 lb	0 in to ¾ in	1	**36G555**
	Load Ring	4,000 lb	0 in to 1 in	1	**36G556**
	Load Ring	6,000 lb	0 in to 1¼ in	1	**36G557**

Pallet and Adjustable Load Lifters

Lifters allow the user to convert an overhead crane into a lift truck to handle palletized loads. No slings or chains necessary. **Adjustable load lifter** has 40$^{11}/_{16}$" min., 52$^{11}/_{16}$" mid., and 64$^{3}/_{16}$" max. throat heights. **Pallet lifters** have 48" throat height. Meet ASME B30.20 Standards.

Adjustable Lifter

Fixed-Fork Lifter

Cap.	Fork Height	Fork Length	Fork Width	Fork Spacing	Bail Center of Gravity	Item No.
Adjustable Load Lifter						
4,000 lb	2 in	43 in	4 in	17 ½ in to 36 in	12 in to 24 in	**5TAE5**
Fixed-Fork Pallet LIfters						
4,000 lb	2 in	36 in	3 in	19 in	18 in	**5TAD9**
	2 in	42 in	4 in	21 in	21 in	**5TAE0**
	2 in	48 in	4 in	24 in	24 in	**5TAE1**
6,000 lb	2 ½ in	48 in	4 ½ in	18 in	24 in	**5TAE3**
	2 ½ in	54 in	4 ½ in	30 in	27 in	**5TAE4**
Lightweight Fixed-Fork Pallet Lifter						
4,000 lb	2 in	36 in	4 in	25 in	24 in	**5TAE9**

Load Indicators, Crane Scales, and Crane Dynamometers

22F450

49P426

TRACTEL

Load Indicators, Wireless Base Layer—Precision force sensors measure forces and indicate loads. Accuracy: ±0.2%.

Load Indicators with Remote Display—Measure hanging loads (lb./kg) and tensile forces (N). Accuracy: ±0.1% (22F449 and 22F450) and 0.2% (22F443 and 22F444).

RON CRANE SCALES BY EILON ENGINEERING

Crane dynamometers are load indicators used to measure hanging loads. User-selectable units of measure and calibration. See Grainger.com® for more information.

Crane Dynamometers with Wireless Remote—Programmed to ensure that received and indicated values are identical to transmitted value. Long transmission range up to 450 ft./150m.

Crane Dynamometers with Wired Remote—Remote indicator reads measured data on all models up to 300 ft.

Crane Scales with Wireless Remote—Cage protects against external shocks. LCD with remote IR control.

3EKX3

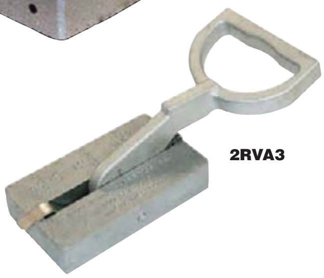
3EKW7

Cap.	Item No.
Tractel	
Load Indicators, Wireless	
4,000 lb	**49P424**
25,000 lb	**49P426**
40,000 lb	**49P427**
Load Indicator	
6,400 lb	**22F449**
10,000 lb	**22F450**
100,000 lb	**22F443**
200,000 lb	**22F444**
Ron Crane Scales	
Crane Dynamometer, Steel, Wireless Remote	
20,000 lb	**3EKX9**
50,000 lb	**3EKY1**
Crane Dynamometer, Steel, Wired Remote	
10,000 lb	**3EKX1**
40,000 lb	**3EKX3**
Crane Scales with Protective Cage, Aluminum, Wireless Remote	
6,000 lb	**3EKW1**
10,000 lb	**3EKW7**

2VCA2

2RUZ8

2RVA2



2RVA3

2VCA6

2VCC5

Lifting Magnets

MAG-MATE®

Require no electricity to operate.

PowerLift Rare Earth—Reduce the chance of dropping a load due to a power failure. On/Off magnet with a locking system ensures that the magnet is ready. Magnets can be used on flat or round surfaces. For handling steel plates, billets, blocks, and containers. RFID enabled. 3:1 design factor. Meet ASME B30.20 Standards.

BasicLift—Full-width cam releases angle iron or strip steel. Stainless steel casings. Large lift lug accommodates most crane hooks. Max. temp.: 300°F. 2:1 design factor.

Creative Lift Ceramic—Nonmarring roller cam release requires less torque to release parts. Rust- and chip-resistant stainless steel casing. For thick nonflexing metal. Max. temp.: 300°F. 3:1 design factor. Meet ASME B30.20 Standards.

Trigger Lift—For removing hot metal parts from cutting tables. 1-handed trigger release. Lightweight aluminum housing. Max. temp.: 300°F.

Sheet Handlers—Lift or move stacked steel plates. 1 sheet at a time.

Power Grips—Securely grip steel plates, sheets, or parts. Loop handle makes it easy to move items.

Parts Retriever—T-handle makes it easy to release parts after retrieval. For use where small parts need to be counted or collected.

Grip Sticks—Reach tight spots with long straight end or 10° angled end. Lightweight aluminum shaft with interchangeable grip and magnet.

Salvage Magnets—Suitable for use in both wet and dry environments for coating, stripping, plating, and chemical operations.

Sheet Fanners—A magnetic field separates the steel sheets. Fanner height should be 2" to 3" higher than the stack.

Manhole Cover Lift System—Combined dolly with magnets to eliminate the need for pry bars when handling manhole covers or lids. Dolly adjusts to lift most manhole covers or lids.

VersaLift—On/Off magnet with test feature. Can be used on flat or round surfaces. RFID enabled, supports custom pole shoes. 3:1 design factor.

Max. Rated Flat Capacity	Min. Material Thickness for Activation	Overall Length	Magnet Length	Magnet Width	Magnet Height	Item No.
PowerLift® Rare Earth						
250 lb	1/4 in	5 in	3 5/8 in	2 5/8 in	2 5/8 in	2VCA1
800 lb	1/4 in	7 7/8 in	6 3/8 in	3 5/8 in	3 7/8 in	2VCA2
1,600 lb	1/2 in	10 3/4 in	9 1/8 in	4 7/8 in	4 3/4 in	2VCA3
2,500 lb	1 in	12 5/8 in	10 5/8 in	7 1/8 in	6 1/2 in	2VCA4
5,000 lb	2 in	16 1/2 in	14 7/8 in	9 1/4 in	8 3/8 in	2VCA5
Basiclift™						
400 lb	3/16 in	7 1/2 in	3 3/8 in	4 1/2 in	1 5/8 in	4DMP8
1,000 lb	3/16 in	11 in	6 1/2 in	4 1/2 in	1 5/8 in	4DMP9
1,500 lb	3/16 in	14 1/2 in	10 3/4 in	4 1/2 in	1 5/8 in	4DMR1
Creative Lift® Ceramic						
400 lb	3/16 in	7 3/4 in	4 in	6 1/2 in	2 1/2 in	2RUZ6
1,000 lb	3/16 in	10 3/4 in	7 in	6 1/2 in	2 1/2 in	2RUZ7
1,500 lb	3/16 in	14 3/4 in	10 1/2 in	6 1/2 in	2 1/2 in	2RUZ8
2,200 lb	3/16 in	15 in	11 1/4 in	9 3/4 in	2 1/2 in	2RUZ9
3,000 lb	3/16 in	19 1/4 in	15 1/4 in	9 3/4 in	2 1/2 in	2RVA1

Max. Lifting Capacity	Magnet Length	Magnet Width	Magnet Height	Item No.
Trigger Lift®				
50 lb	3 3/8 in	2 3/8 in	4 13/16 in	2RVA2
Sheet Handlers				
50 lb	6 1/8 in	3 5/8 in	1 3/8 in	2RVA3
125 lb	6 1/8 in	7 1/4 in	1 3/8 in	2RVA4
200 lb	6 1/8 in	7 1/4 in	1 3/8 in	2RVA5
600 lb	6 1/8 in	7 1/4 in	1 3/8 in	2RVA6
Power Grips				
25 lb	2 1/8 in	3/4 in	2 in	2RVA7
50 lb	6 in	9/16 in	1 1/2 in	48KR14
51.5 lb	4 in	3/4 in	2 1/4 in	2RVA8
92.5 lb	5 1/4 in	1 7/8 in	2 3/4 in	2RVA9
125 lb	6 in	9/16 in	1 1/2 in	48KR16
180 lb	6 in	9/16 in	1 1/2 in	48KR15

Lifting Capacity	L	Item No.
Parts Retrievers		
5 lb	7 1/2 in	2VCA6
5 lb	33 1/2 in	2VCA9
7 lb	7 1/2 in	2VCA7
7 lb	33 1/2 in	2VCC1
11 lb	7 1/2 in	2VCA8
11 lb	33 1/2 in	2VCC2
Grip Sticks		
12 1/2 lb	14 in	4DMR2
43 1/2 lb	14 in	4DMR3
Salvage Magnets		
35 lb	3 1/2 in	2VCC4
50 lb	6 in	2VCC3

Metal Gauge	Overall Height	Item No.
Sheet Fanners		
20 to 30 ga	6 3/16 in	2VCC5
	9 1/4 in	2VCC6
	12 1/4 in	2VCC7
	15 1/4 in	2VCC8
12 to 22 ga	9 1/4 in	2VCC9
	12 1/4 in	2VCD1
	15 1/4 in	2VCD2
	18 5/16 in	2VCD3
7 to 12 ga	9 1/4 in	2VCD4
	12 1/4 in	2VCD5
	15 1/4 in	2VCD6
	18 5/16 in	2VCD7

Description	Cap.	Collapsed Height	Overall Length	Item No.
Manhole Cover Lift System				
Magnet Lift System	400 lb	—	29 1/2 in	2VCD8
Steel Lifting Dolly	—	—	78 in	2VCD9
Aluminum Lifting Dolly	—	—	78 in	2VCE1
Steel Manhole Cover Lid Lifter	800 lb	12 1/4 in	75 1/2 in	34JG53
	800 lb	15 1/4 in	75 1/2 in	34JG54
	1,600 lb	12 1/4 in	75 1/2 in	34JG55
	1,600 lb	15 1/4 in	75 1/2 in	34JG56
Aluminum Manhole Cover Lid Lifter	600 lb	12 1/4 in	75 1/2 in	34JG57
	600 lb	15 1/4 in	75 1/2 in	34JG58
	1,200 lb	12 1/4 in	75 1/2 in	34JG59
	1,200 lb	15 1/4 in	75 1/2 in	34JG60

Description	Overall Length	Max. Rated Flat Capacity	Magnet Length	Magnet Width	Magnet Height	Item No.
VersaLift Rare Earth™						
Lifting Magnet	7 in	600 lb	5 5/8 in	5 in	3 3/4 in	38V889
Lifting Magnet	11 in	1,200 lb	10 in	5 in	3 3/4 in	38V890
Lift Magnet Adaptor	4 in	—	—	—	—	38V891

ERIEZ

Lifting Magnets

Safely lift and transfer steel and iron without slings, hooks, or cables. Use individually or in series with a spreader beam. Capacity is lower on thinner materials. Paint, coatings, scale, or other materials on the contact surface may significantly reduce holding power. Conform to ASME B30.20.

For more information on Eriez Lifting Magnets, see documentation on Grainger.com®.

SafeHold Manual On/Off—Permanent, 2-pole magnets lift round and flat materials without electricity. Include hook bale.

SafeHold Automatic On/Off—Suitable for lifting flat materials from burn tables and where access is limited. Permanent magnets; no electricity required. Turn on or off automatically each time they go through a full lift cycle. Include lifting eye.

Selecto Electric—Lift/Off/Drop switch is top-mounted. Magnetizing requires 115VAC electric power. Includes lifting eye.

490P78

1TAF1

Max. Rated Flat Capacity	Max. Rated Round Capacity	Overall Height	Overall Length	Overall Width	Item No.
Safehold® Manual On/Off					
250 lb	125 lb	4 13/16 in	4 3/4 in	2 1/2 in	**490P78**
750 lb	375 lb	7 3/32 in	7 3/4 in	3 5/8 in	**490P79**
1,500 lb	750 lb	8 5/8 in	10 23/32 in	4 13/16 in	**490P80**
2,500 lb	1,250 lb	11 17/32 in	12 1/2 in	6 15/16 in	**490P81**
Safehold® Automatic On/Off					
1,100 lb	—	21 1/2 in	16 3/8 in	17 7/8 in	**1TAF4**
2,400 lb	—	22 1/4 in	22 13/16 in	18 11/16 in	**1TAF5**

Max. Lifting Capacity	Overall Dia.	Overall Height	Item No.
Selecto® Electric			
375 lb	4 in	5 5/8 in	**1TAF1**
1,030 lb	5 9/16 in	8 5/16 in	**1TAF2**
2,800 lb	8 5/8 in	10 1/2 in	**1TAF3**

49P417

Dayton

Permanent Lifting Magnets

Lightweight, small-volume magnets are easy to transport, provide a more effective use of available floor space, and increase stacking height. Large, heavy pieces can easily be moved by one operator. Can be used with both flat and round components. Stable structure is made with high-energy rare earth NdFeB magnets. Use with spreader beam to handle long plates, pipes, or bars.

Max. Rated Flat Capacity	Max. Rated Round Capacity	Bail Opening Height	Bail Opening Width	Overall Length	Magnet Length	Magnet Width	Magnet Height	Item No.
250 lb	125 lb	2 3/8 in	1 3/8 in	4 3/4 in	3 1/4 in	2 1/2 in	2 5/8 in	**49P417**
800 lb	400 lb	2 7/8 in	1 3/4 in	7 5/8 in	6 in	3 5/8 in	3 1/2 in	**49P418**
1,600 lb	800 lb	4 in	2 3/4 in	10 5/8 in	8 3/4 in	4 5/8 in	4 3/4 in	**49P419**
2,500 lb	1,250 lb	6 3/4 in	4 in	12 1/8 in	10 1/4 in	7 in	6 1/2 in	**49P420**
5,000 lb	2,500 lb	8 3/4 in	4 1/2 in	16 3/4 in	14 5/8 in	9 1/8 in	8 3/8 in	**49P421**

RONSTAN

Screw Pin Shackles

- 316 stainless steel construction

Marine-grade design and materials provide corrosion resistance. Feature low-profile and compact design. 5GAA5 has a bolt head for wrench tightening.

Screw Pin D Shackle

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Bow Shackles				
660 lb	7/16 in	9/16 in	5/32 in	**5FZZ3**
880 lb	1/2 in	23/32 in	3/16 in	**5FZZ4**
1,545 lb	5/8 in	13/16 in	1/4 in	**5FZZ5**
2,975 lb	5/8 in	1 1/16 in	5/16 in	**5FZZ6**
7,490 lb	13/16 in	2 1/16 in	3/8 in	**5FZZ7**

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
D Shackles				
310 lb	11/32 in	15/32 in	1/8 in	**5FZZ8**
660 lb	13/32 in	5/8 in	5/32 in	**5FZZ9**
880 lb	7/16 in	23/32 in	3/16 in	**5GAA0**
1,545 lb	9/16 in	7/8 in	1/4 in	**5GAA1**
2,975 lb	5/8 in	1 5/32 in	5/16 in	**5GAA2**
3,970 lb	21/32 in	1 1/2 in	3/8 in	**5GAA3**
8,265 lb	3/4 in	1 31/32 in	1/2 in	**5GAA4**
12,125 lb	1 in	1 25/32 in	5/8 in	**5GAA5**

29WP72

Crosby Bolt, Nut, and Cotter Shackles

- Galvanized per ASME B30.26

Heavy-duty shackles provide a secure, semipermanent connection. Marked with size and working load limit (WLL), in tons.

Working Load Limit	Width Between Eyes	Pin Dia.	Body Size	Item No.
4,000 lb	13/16 in	21/32 in	1/2 in	**29WP72**
6,500 lb	1 1/16 in	3/4 in	5/8 in	**29WP73**
9,500 lb	1 1/4 in	7/8 in	3/4 in	**29WP74**
13,000 lb	1 7/16 in	1 in	7/8 in	**29WP75**
17,000 lb	1 11/16 in	1 1/8 in	1 in	**29WP76**
19,000 lb	1 13/16 in	1 1/4 in	1 1/8 in	**29WP77**
24,000 lb	2 1/32 in	1 3/8 in	1 1/4 in	**29WP78**
27,000 lb	2 1/4 in	1 1/2 in	1 3/8 in	**29WP79**
34,000 lb	2 3/8 in	1 5/8 in	1 1/2 in	**29WP80**
50,000 lb	2 7/8 in	2 in	1 3/4 in	**29WP81**
70,000 lb	3 1/4 in	2 1/4 in	2 in	**29WP82**
110,000 lb	4 1/8 in	3 3/4 in	2 1/2 in	**29WP83**

Crosby Screw Pin Anchor Shackles

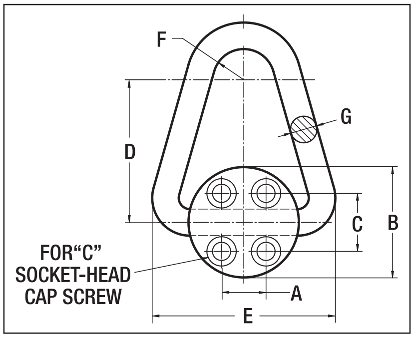
- Galvanized per ASME B30.26

For applications where the shackle is removed frequently. Shackles are permanently marked with size and working load limit (WLL), in tons. Wide-body shackle units have powder-coat finish.

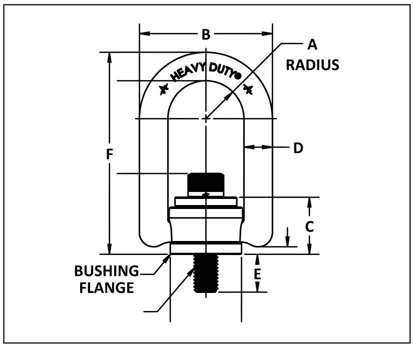
29WP42

Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Painted Finish, Carbon Steel Body & Pin				
1,000 lb	15/32 in	1/4 in	5/16 in	**29WP42**
1,500 lb	17/32 in	5/16 in	3/8 in	**29WP43**
2,000 lb	21/32 in	3/8 in	7/16 in	**29WP44**
3,000 lb	3/4 in	7/16 in	17/32 in	**29WP45**
4,000 lb	13/16 in	1/2 in	21/32 in	**29WP46**
6,500 lb	1 1/16 in	5/8 in	3/4 in	**29WP47**
9,500 lb	1 1/4 in	3/4 in	7/8 in	**29WP48**
13,000 lb	1 7/16 in	7/8 in	1 in	**29WP49**
17,000 lb	1 11/16 in	1 in	1 1/8 in	**29WP50**
19,000 lb	1 13/16 in	1 1/8 in	1 1/4 in	**29WP51**
24,000 lb	2 1/32 in	1 1/4 in	1 3/8 in	**29WP52**
27,000 lb	2 1/4 in	1 3/8 in	1 1/2 in	**29WP53**
50,000 lb	2 7/8 in	1 3/4 in	2 in	**29WP55**
70,000 lb	3 1/4 in	2 in	2 1/4 in	**29WP56**
110,000 lb	4 1/8 in	2 1/2 in	2 3/4 in	**29WP57**

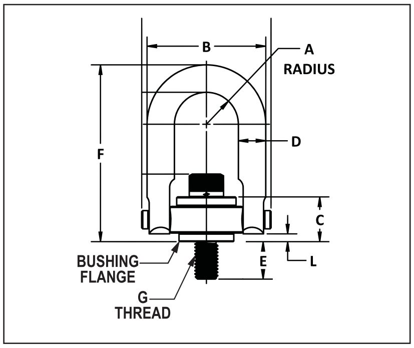
Working Load Limit	Width Between Eyes	Body Size	Pin Dia.	Item No.
Galvanized Finish, Carbon Steel Body & Pin				
660 lb	3/8 in	3/16 in	1/4 in	**29WP58**
1,000 lb	15/32 in	1/4 in	5/16 in	**29WP59**
1,500 lb	17/32 in	5/16 in	3/8 in	**29WP60**
2,000 lb	21/32 in	3/8 in	7/16 in	**29WP61**
4,000 lb	13/16 in	1/2 in	21/32 in	**29WP63**
6,500 lb	1 1/16 in	5/8 in	3/4 in	**29WP64**
9,500 lb	1 1/4 in	3/4 in	7/8 in	**29WP65**
13,000 lb	1 7/16 in	7/8 in	1 in	**29WP66**
17,000 lb	1 11/16 in	1 in	1 1/8 in	**29WP67**
19,000 lb	1 13/16 in	1 1/8 in	1 1/4 in	**29WP68**
24,000 lb	2 1/32 in	1 1/4 in	1 3/8 in	**29WP69**
27,000 lb	2 1/4 in	1 3/8 in	1 1/2 in	**29WP70**
34,000 lb	2 3/8 in	1 1/2 in	1 5/8 in	**29WP71**



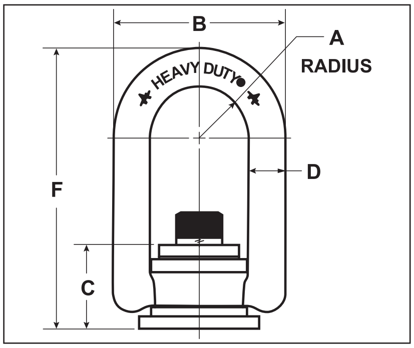
Pivot Only



HDHR/ENHDHR/HDHRM



SEHR/SEHRM



WMHR

Hoist Rings

PIVOT-ONLY

Rings are built with forged chrome moly steel, with black oxide finish. Heat-treated and pivot 180° under load. 6:1 design factor.

EN-GUARD ENHDHR

Designed with 4140 alloy steel. Corrosion-resistant electroless nickel finish. Serialized; disassemble and reassemble for easy inspection. Rings bolt-on and swivel 360° and pivot 180° and have 5:1 design factor.

HDHR AND HDHR-METRIC

Rings feature forged 4140 alloy steel with black oxide finish. They have individual serial numbers. Bolt-on and swivel 360° and pivot 180° under load. 5:1 design factor.

SEHR, SEHR-METRIC, AND SEHRSS

Rings are serialized, bolt-on, and feature 5:1 design factor. They swivel 360° and pivot 180° under load. SEHR and SEHRM rings are designed with 4140 alloy steel and black oxide finish. SEHRSS are designed with 300 series stainless steel.

WMHR

4140 alloy steel construction with black oxide finish. Welded and swivel 360° and pivot 180° under load.

Working Load Limit	A	B	C	D	E	F	Bail Dia.	Thread Size	Installation Torque	Item No.	
Pivot Only											
20000 lb	5 in	3 5/8 in	2 1/16 in	1 in	6 3/16 in	1 7/8 in	1 in	5/8 (4 PLCS)	42 to 50 ft-lb	**4R976**	†
Pivot/Swivel											
En-Guard™ ENHDHR											
1000 lb	21/32 in	2 19/64 in	31/32 in	7/16 in	9/16 in	3 15/64 in	1 in	3/8-16	12 ft-lb	**39RJ70**	#
2500 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	3/4 in	5 5/16 in	1 in	1/2-13	28 ft-lb	**39RJ55**	#
4000 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	1 in	5 5/16 in	1 in	5/8-11	60 ft-lb	**39RH89**	#
5000 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	1 in	5 5/16 in	1 in	3/4-10	100 ft-lb	**39RJ25**	#
10000 lb	1 1/2 in	5 7/64 in	1 3/64 in	1 in	1 29/64 in	7 3/8 in	1 in	1"-8	230 ft-lb	**39RH95**	
15000 lb	2 in	6 3/4 in	2 7/8 in	1 1/4 in	1 7/8 in	9 7/32 in	1 in	1 1/4-7	470 ft-lb	**39RJ39**	#
HDHR											
550 lb	21/32 in	2 19/64 in	31/32 in	7/16 in	9/16 in	3 15/64 in	1 in	1/4-20	5 ft-lb	**39RJ53**	#
800 lb	21/32 in	2 19/64 in	31/32 in	7/16 in	1 1/16 in	3 15/64 in	1 in	5/16-18	7 ft-lb	**39RJ23**	#
	21/32 in	2 19/64 in	31/32 in	7/16 in	9/16 in	3 15/64 in	1 in	5/16-18	7 ft-lb	**39RH92**	#
1000 lb	21/32 in	2 19/64 in	31/32 in	7/16 in	9/16 in	3 15/64 in	7/16 in	3/8-16	12 ft-lb	**4R968**	†
	21/32 in	2 19/64 in	31/32 in	7/16 in	1 1/16 in	3 15/64 in	7/16 in	3/8-16	12 ft-lb	**4ZW85**	†
2250 lb	21/32 in	2 19/64 in	31/32 in	7/16 in	1 1/16 in	3 15/64 in	1 in	1/2-13	26 ft-lb	**39RJ41**	#
2500 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	3/4 in	5 5/16 in	1 in	1/2-13	28 ft-lb	**39RJ67**	#
	1 in	3 1/2 in	1 1/2 in	3/4 in	1 in	5 5/16 in	3/4 in	1/2-13	28 ft-lb	**4R982**	†
	1 in	3 1/2 in	1 1/2 in	3/4 in	1 1/4 in	5 5/16 in	3/4 in	1/2-13	28 ft-lb	**4R984**	†
4000 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	1 in	5 5/16 in	3/4 in	5/8-11	60 ft-lb	**4R986**	†
	1 in	3 1/2 in	1 1/2 in	3/4 in	1 1/4 in	5 5/16 in	3/4 in	5/8-11	60 ft-lb	**4ZW89**	†
5000 lb	1 in	3 1/2 in	1 1/2 in	3/4 in	1 in	5 5/16 in	3/4 in	3/4-10	100 ft-lb	**4R990**	†
	1 in	3 1/2 in	1 1/2 in	3/4 in	1 1/2 in	5 5/16 in	3/4 in	3/4-10	100 ft-lb	**4ZW90**	†
7000 lb	1 1/2 in	5 7/64 in	1 3/64 in	1 in	1 13/64 in	7 3/8 in	1 in	3/4-10	100 ft-lb	**4ZW80**	†
	1 1/2 in	5 7/64 in	1 3/64 in	1 in	1 29/64 in	7 3/8 in	1 in	3/4-10	100 ft-lb	**4ZW81**	†
8000 lb	1 1/2 in	5 7/64 in	2 3/64 in	1 in	1 1/4 in	7 3/8 in	1 in	7/8-9	160 ft-lb	**4ZW79**	†
10000 lb	1 1/2 in	5 7/64 in	1 3/64 in	1 in	1 29/64 in	7 3/8 in	1 in	1"-8	230 ft-lb	**4ZW82**	†
	1 1/2 in	5 7/64 in	1 3/64 in	1 in	1 1/4 in	7 3/8 in	1 in	1"-8	230 ft-lb	**4R970**	†
	1 1/2 in	5 7/64 in	1 3/64 in	1 in	2 13/64 in	7 3/8 in	1 in	1"-8	230 ft-lb	**4ZW83**	†
15000 lb	2 in	6 3/4 in	2 7/8 in	1 1/4 in	2 5/8 in	9 7/32 in	1 1/4 in	1 1/4-7	470 ft-lb	**4ZW86**	†
20000 lb	2 in	6 3/4 in	2 7/8 in	1 1/4 in	2 5/8 in	9 7/32 in	1 1/4 in	1 3/8-6	670 ft-lb	**4ZW87**	†
24000 lb	2 in	6 3/4 in	2 7/8 in	1 1/4 in	2 5/8 in	9 7/32 in	1 1/4 in	1 1/2-6	800 ft-lb	**4ZW88**	†
30000 lb	2 in	6 3/4 in	2 7/8 in	1 1/4 in	2 31/32 in	9 7/32 in	1 in	2-4-1/2	1,100 ft-lb	**39RH96**	
HDHR - Metric											
990 lb	16.5 mm	58.2 mm	24.4 mm	11.1 mm	16 mm	82 mm	1 in	M10 x 1.5	16 ft-lb	**39RJ87**	#
2300 lb	25.4 mm	88.9 mm	38.1 mm	19.1 mm	25 mm	134.9 mm	1 in	M12 x 1.75	37 ft-lb	**39RH82**	#
4100 lb	25.4 mm	88.9 mm	38.1 mm	19.1 mm	25 mm	134.9 mm	1 in	M16 x 2.0	80.0 ft-lb	**39RJ06**	#
4800 lb	25.4 mm	88.9 mm	38.1 mm	19.1 mm	25 mm	134.6 mm	1 in	M20 x 2.5	135 ft-lb	**39RJ40**	
27500 lb	50.8 mm	171.5 mm	72.9 mm	31.8 mm	80 mm	234.2 mm	1 in	M42 x 4.5	1,085.5 ft-lb	**39RJ24**	#
SEHR											
550 lb	7/16 in	1 39/64 in	23/32 in	3/8 in	35/64 in	2 43/64 in	3/8 in	1/4-20	5 ft-lb	**39RH91**	
800 lb	7/16 in	1 39/64 in	23/32 in	3/8 in	19/64 in	2 43/64 in	3/8 in	1/4-20	7 ft-lb	**39RJ26**	
1000 lb	7/16 in	1 39/64 in	23/32 in	3/8 in	35/64 in	2 43/64 in	3/8 in	3/8-16	12 ft-lb	**39RJ79**	
2500 lb	45/64 in	2 13/32 in	15/16 in	1/2 in	1 5/64 in	3 25/32 in	1/2 in	1/2-13	28 ft-lb	**39RJ43**	#
	7/8 in	3 1/4 in	1 7/32 in	3/4 in	25/32 in	4 25/32 in	3/4 in	1/2-13	28 ft-lb	**39RJ86**	#
	7/8 in	3 1/4 in	1 7/32 in	3/4 in	25/32 in	6 23/32 in	3/4 in	1/2-13	28 ft-lb	**4R980**	†
4000 lb	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 1/32 in	4 25/32 in	3/4 in	5/8-11	60 ft-lb	**39RJ60**	#
	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 9/32 in	4 25/32 in	3/4 in	5/8-11	60 ft-lb	**39RJ30**	#
5000 lb	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 9/32 in	4 25/32 in	3/4 in	1/2-13	28 ft-lb	**39RH83**	#
	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 17/32 in	4 25/32 in	3/4 in	3/4-10	100 ft-lb	**39RJ91**	#
	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 1/32 in	4 25/32 in	3/4 in	3/4-10	100 ft-lb	**39RJ50**	
7000 lb	1 13/32 in	4 51/64 in	1 23/32 in	1 in	1 35/64 in	6 33/64 in	1 in	3/4-10	100 ft-lb	**39RH88**	#
10000 lb	1 13/32 in	4 51/64 in	1 23/32 in	1 in	1 35/64 in	6 33/64 in	1 in	1"-8	230 ft-lb	**39RJ54**	#
15000 lb	1 3/4 in	6 in	2 7/64 in	1 1/4 in	1 57/64 in	8 47/64 in	1 1/4 in	1 1/4-7	470 ft-lb	**39RJ45**	#
30000 lb	2 1/4 in	8 in	2 13/16 in	1 3/4 in	2 31/32 in	12 15/32 in	1 in	2-4-1/2	1,100 ft-lb	**39RJ84**	#
50000 lb	3 in	10 1/2 in	4 3/32 in	2 1/4 in	4 in	16 7/8 in	1 in	2 1/2-8	2,100 ft-lb	**39RH79**	#
75000 lb	3 3/4 in	13 in	5 17/64 in	2 3/4 in	5 13/64 in	19 1/2 in	1 in	3-4	4,300 ft-lb	**39RJ89**	#
SEHR - Metric											
4100 lb	22.4 mm	82.5 mm	31 mm	19 mm	24 mm	121.4 mm	1 in	M16 x 2.0	80 ft-lb	**39RJ16**	#
9200 lb	35.6 mm	121.2 mm	43.4 mm	25.4 mm	34 mm	165.8 mm	1 in	M24 x 3.0	311.0 ft-lb	**39RJ75**	
69300 lb	95.25 mm	330.2 mm	133.9 mm	69.85 mm	132 mm	495.3 mm	1 in	M72 x 6.0	5,670 ft-lb	**39RJ62**	#
SEHRSS											
275 lb	7/16 in	1 39/64 in	23/32 in	3/8 in	35/64 in	2 43/64 in	3/8 in	1/4-20	2.5 ft-lb	**39RJ77**	
1250 lb	45/64 in	2 13/32 in	15/16 in	1/2 in	1 5/64 in	3 25/32 in	1/2 in	1/2-13	14 ft-lb	**39RJ14**	#
2500 lb	7/8 in	3 1/4 in	1 7/32 in	3/4 in	1 17/32 in	4 25/32 in	3/4 in	3/4-10	50 ft-lb	**39RJ38**	#
WMHR											
5000 lb	1 in	3 1/2 in	1 5/8 in	3/4 in	—	5 15/32 in	1 in	1/4 in	—	**39RJ19**	#
24000 lb	2 in	6 3/4 in	3 1/8 in	1 1/4 in	—	9 1/2 in	1 in	1/2 in	—	**39RJ61**	#

† Magnetic particle inspected per ATSME 1444. # Complies with ASME B30.26

Bolt-On Hoist Rings

RUD®

Swivel load rings maintain working load limit (WLL) during lift without unintended loosening and adjust to the load direction. Heat-treated alloy steel with a high-visibility fluorescent pink powder coating that permanently changes color at increased temperatures. The color changes to a deep black with small bubbles if the chain/component reaches 752°F to indicate overheating. Attach to machinery or static loads to lift, move, or position with a lifting sling. 100% electromagnetic crack detection according to EN 1677, except INOX-STAR and VLBG-Plus.

WARNING! Working load limit of an assembly is determined by the component with the lowest working load limit; do not exceed.

Powerpoint—Universal connection for hook-and-ring assemblies, round sling, loop, endless sling, and more. Double ball bearing enables friction-free turns, swivels, and tilts. Maximum working load limit (WLL) with smallest thread diameter.

Starpoint—Swivel eyebolt rotates 360°, adjusts to the direction of the pull, and allows for full engagement of the bolt. Come with tightening key.

Starpoint Eye Nuts—Pivots 360° for an easy adjustment in load direction. Can be side-loaded when adjusted to the correct plane. Available in metric sizes. Safety factor: 4:1.

INOX-STAR Eyebolt—Stainless steel eyebolt pivots 360° in load direction. Body and bolt are designed with Duplex Steel 1.4462 that offers high resistance in sea water and in environments with a high concentration of chlorine ions.

VLBG—Engineered with lifting points that pivot 360°; foldable suspension ring pivots 180°. Designed with a captive, but exchangeable, 100% crack-tested bolt and clear marking of the minimum WLL for all loading directions. Safety factor: 4:1.

VLBG-Plus—360° swivel hoist rings with typically higher working limit in all directions. Bracket adjustable in force direction.

VWBG-V—Double ball-bearing hoist ring is designed for heavy loads which need to be twisted and turned. Pivots 360° so it can be loaded in all directions. 100% crack-tested with a 4:1 safety factor.

Powerpoint® Swivel Hook with Latch

Starpoint® Swivel with Tightening Key

Starpoint® Eye Nut

INOX-STAR Eyebolt

VWBG-V Swivel Load Ring

Working Load Limit	Key	Pivot	Bail Dia.	UNC THREAD Thread Size	UNC THREAD Item No.	METRIC THREAD Thread Size	METRIC THREAD Item No.
Powerpoint®, 360° Swivel, Latch Hook Style							
1380 lb	1	180°	—	½-13	**1MLR2**	M12 x 1.75	**1MLU5**
3300 lb	1	180°	—	⅝-11	**1MLR3**	M16 x 2	**1MLU6**
5500 lb	1	180°	—	¾-10	**1MLR4**	M20 x 2.5	**1MLU7**
5500 lb	1	180°	—	⅞-9	**1MLR5**	—	—
8800 lb	1	180°	—	1-8	**1MLR6**	—	—
17630 lb	1	180°	—	1½-6	**1MLR8**	M36 x 4	**1MLV1**
Starpoint® Swivel Eyebolt with Tightening Key							
220 lb	2	360°	—	¼-20	**16A756**	M6 x 1	**16A758**
660 lb	2	360°	—	5⁄16-18	**16A757**	M8 x 1.25	**16A759**
880 lb	2	0°	63⁄64 in	⅜-16	**1MLX6**	M10 x 1.5	**1MLZ4**
1650 lb	2	0°	1 3⁄16 in	½-13	**1MLX7**	M12 x 1.75	**1MLZ5**
3300 lb	2	0°	1 ⅜ in	⅝-11	**1MLX8**	M16 x 2	**1MLZ6**
5070 lb	2	0°	1 37⁄64 in	¾-10	**1MLX9**	M20 x 2.5	**1MLZ7**
5070 lb	2	0°	1 37⁄64 in	⅞-9	**1MLY1**	—	—
7050 lb	2	0°	1 ⅞ in	1-8	**1MLY2**	M24 x 3	**1MLZ8**
9920 lb	2	0°	2 23⁄64 in	1¼-7	**1MLY3**	M30 x 3.5	**1MLZ9**
15430 lb	2	0°	2 53⁄64 in	1½-6	**1MLY4**	M36 x 4	**1MMA1**
19480 lb	2	0°	3 7⁄32 in	1¾-5	**1MLY5**	M42 x 4.5	**1MMA2**
24640 lb	2	0°	3 45⁄64 in	2-4-1/2	**1MLY6**	M48 x 5	**1MMA3**
Starpoint® VRM 360° Swivel Eye Nut							
660 lb	3	0°	7⁄16 in	—	—	M8 x 1.25	**6LYA1**
880 lb	3	0°	7⁄16 in	—	—	M10 x 1.5	**6LYA2**
1650 lb	3	0°	33⁄64 in	—	—	M12 x 1.75	**6LYA3**
3300 lb	3	0°	19⁄32 in	—	—	M16 x 2	**6LYA4**
5070 lb	3	0°	43⁄64 in	—	—	M20 x 2.5	**6LYA5**
7050 lb	3	0°	53⁄64 in	—	—	M24 x 3	**6LYA6**
9920 lb	3	0°	1 1⁄32 in	—	—	M30 x 3.5	**6LYA7**
INOX-STAR, 360° Swivel Eyebolt							
1100 lb	4	0°	9⁄16 in	—	—	M12 x 1.75	**6LYA8**
2200 lb	4	0°	⅝ in	—	—	M16 x 2	**6LYA9**
4400 lb	4	0°	¾ in	—	—	M20 x 2.5	**6LYC0**
5500 lb	4	0°	15⁄16 in	—	—	M24 x 3	**6LYC1**

Working Load Limit	Key	Pivot	Bail Dia.	UNC THREAD Thread Size	UNC THREAD Item No.	METRIC THREAD Thread Size	METRIC THREAD Item No.
VLBG, 360° Swivel Hoist Ring							
2200 lb	5	180°	1 11⁄32 in	½-13	**1MLY7**	—	—
3300 lb	5	180°	1 13⁄32 in	⅝-11	**1MLY8**	—	—
5500 lb	5	180°	2 5⁄32 in	¾-10	**1MLY9**	—	—
5500 lb	5	180°	2 5⁄32 in	⅞-9	**1MLZ1**	—	—
8800 lb	5	180°	2 5⁄32 in	1-8	**1MLZ2**	—	—
11000 lb	5	180°	2 9⁄16 in	1¼-7	**1MLZ3**	—	—
15430 lb	5	180°	2 9⁄16 in	—	—	M36 x 4	**1MMB2**
17630 lb	5	180°	3 7⁄32 in	—	—	M36 x 4	**1MMB3**
33060 lb	5	180°	3 15⁄16 in	—	—	M42 x 4.5	**1MMB4**
44090 lb	5	180°	3 15⁄16 in	—	—	M48 x 5	**1MMB5**
VLBG-Plus, 360° Swivel Hoist Ring							
1385 lb	6	180°	⅜ in	—	—	M8 x 0.63	**53JJ19**
1980 lb	6	180°	⅜ in	—	—	M10 x 0.9	**53JJ20**
2970 lb	6	180°	⅜ in	—	—	M12	**53JJ21**
4400 lb	6	180°	½ in	—	—	M16 x 2	**53JJ22**
7700 lb	6	180°	½ in	—	—	M20 x 2.5	**53JJ23**
9900 lb	6	180°	½ in	—	—	1 7⁄16 in	**53JJ24**
14740 lb	6	180°	¾ in	—	—	M30 x 6.7	**53JJ25**
VWBG-V, 360° Swivel Hoist Ring							
660 lb	7	180°	5⁄16 in	5⁄16-18	**16A749**	M8 x 1.25	**16A737**
990 lb	7	180°	5⁄16 in	⅜-16	**16A750**	M10 x 1.5	**16A738**
1320 lb	7	180°	⅜ in	½-13	**16A751**	M12 x 1.75	**16A739**
2860 lb	7	180°	½ in	⅝-11	**16A752**	M16 x 2	**16A740**
4400 lb	7	180°	½ in	¾-10	**16A753**	M20 x 2.5	**16A741**
7700 lb	7	180°	11⁄16 in	1-8	**16A754**	M24 x 3	**16A742**
11000 lb	7	180°	⅞ in	1¼-7	**16A755**	M30 x 3.5	**16A743**
17600 lb	7	180°	⅞ in	—	—	M36 x 4	**16A744**
26400 lb	7	180°	1 in	—	—	M42 x 4.5	**16A745**
28600 lb	7	180°	1 in	—	—	M48 x 5	**16A746**
35200 lb	7	180°	1 ¼ in	—	—	M56 x 1.5	**16A747**
35200 lb	7	180°	1 ¼ in	—	—	M64 x 1.5	**16A748**

RUD®

Weld-On Load Rings

Tested weld-on lifting points are made from high-quality steel, and heat-treated for increased strength. All parts are 100% electromagnetic crack detected according to EN 1677 and have clear identification of nominal WLL. Safety factor: 4:1.

Working Load Limit	Bail Dia.	Pivot	Item No.
Weld-On with Supporting Lug			
3,300 lb	63⁄64 in	180°	**1MLW5**
5,500 lb	—	180°	**16A760**
8,800 lb	1 17⁄64 in	180°	**1MLW6**
14,770 lb	1 47⁄64 in	180°	**1MLW7**
22,000 lb	2 5⁄32 in	180°	**1MLW8**
35,300 lb	2 23⁄32 in	180°	**1MLW9**
Weld-On with Distance Lugs			
8,800 lb	1 ⅞ in	180°	**1MLX1**
14,770 lb	2 23⁄64 in	180°	**1MLX2**
22,040 lb	2 9⁄16 in	180°	**1MLX3**
35,270 lb	3 35⁄64 in	180°	**1MLX4**
69,300 lb	5 7⁄64 in	180°	**1MLX5**
Weld-On Pad Eyes			
3,500 lb	—	0°	**16A769**
7,050 lb	—	0°	**16A770**
11,000 lb	—	0°	**16A771**
22,000 lb	—	0°	**16A772**

Weld-On with Supporting Lug

Weld-On Pad Eyes

Weld-On with Distance Lugs

Grade 70 Steel
Clevis Hook

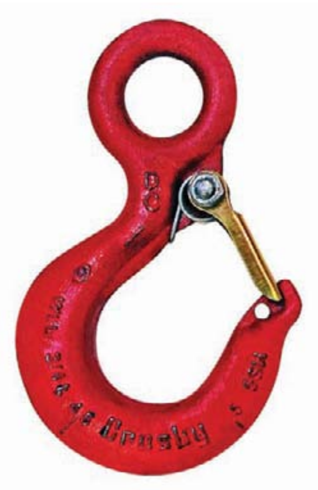
Grade 100
Alloy Steel
Eye Hook

Hook Attachment Type	Trade Size	Working Load Limit	Color	Brand	Item No.
Grade 70 Alloy Steel					
Clevis	⅜ in	7,100 lb	Red	Crosby	**48FR54**
	⅜ in	6,600 lb	Yellow	Kinedyne	**48PX57**
	½ in	12,000 lb	Red	Crosby	**48FR55**
Eye	½ in	12,000 lb	Red	Dayton	**2YNR3**
Grade 70 Carbon Steel					
Clevis	5/16 in	3,900 lb	Gold	Campbell	**49JN50**
	⅜ in	5,400 lb	Gold	Campbell	**49JN51**
Grade 70 Steel					
Clevis	¼ in	3,500 lb	Red	Crosby	**48FR53**
	5/16 in	4,700 lb	Yellow Zinc	B/A Products Co.	**9XDN7**
	⅜ in	6,600 lb	Yellow Zinc	B/A Products Co.	**9XD05**
	¾ in	24,700 lb	Red	Crosby	**48FR56**
Grade 80 Alloy Steel					
Clevis	¼ in	4,100 lb	Orange	Campbell	**49JN45**
	5/16 in	5,100 lb	Orange	Campbell	**49JN46**
	⅜ in	7,100 lb	Orange	Campbell	**49JN47**
	½ in	12,000 lb	Orange	Campbell	**49JN48**
	⅝ in	18,100 lb	Orange	Campbell	**49JN49**
Eye	9/32 in	3,500 lb	Red	Dayton	**2YNT3**
	½ in	12,000 lb	Red	Dayton	**2YNT5**
Grade 80 Steel					
Clevis	¼ in	3,500 lb	Gold	B/A Products Co.	**20Y814**
	5/16 in	4,500 lb	Gold	B/A Products Co.	**12Z643**
	⅜ in	7,100 lb	Gold	B/A Products Co.	**12Z644**
	½ in	12,000 lb	Gold	B/A Products Co.	**12Z657**
	⅝ in	18,100 lb	Gold	B/A Products Co.	**20Y815**
	¾ in	28,300 lb	Red	—	**400F15**
Eye	¾ in	28,300 lb	Red	—	**400F14**
Grade 100 Alloy Steel					
Clevis	¼ in to 5/16 in	5,700 lb	Blue	Yoke	**13H163**
	9/32 in	4,300 lb	Green	Campbell	**49JN12**
	⅜ in	8,800 lb	Blue	Yoke	**13H164**
	⅜ in	8,800 lb	Green	Campbell	**49JN13**
	½ in	15,000 lb	Blue	Yoke	**13H165**
	½ in	15,000 lb	Green	Campbell	**49JN14**
	⅝ in	22,600 lb	Green	Campbell	**49JN15**
Grade 100 Steel					
Clevis	⅜ in	8,800 lb	Silver	Crosby	**48FR89**
Eye	⅝ in	22,600 lb	Red	—	**400F13**

Grab Hooks

Excellent for use with chain-to-chain hooking, over-the-road safety chains, vehicle stabilization, and general applications in place of slip hooks. **B/A Products Grade 70 and 80 Steel** feature a Twist Lock design which prevents accidental release of chain from hook connection and also prevents inadvertent rehooking. **Yoke Grade 100 Alloy Steel** features supporting wings to prevent chain link deformation.

29WR16



29WP90

Crosby Slip Hooks

Ideal for applications requiring chain or cable to pass through the opening without binding. Forged hooks are quenched and tempered providing maximum strength without excessive weight and bulk. Deformation indicators help determine if throat opening has changed indicating abuse or overload. Angle indicators indicate the maximum included angle which is allowed between 2 sling legs in the hook. These indicators also help approximate other included angles between 2 sling legs. Swivel hooks help prevent tangling and help with positioning during connection. Alloy steel hooks are designed with a 4:1 safety factor; carbon steel are designed with a 5:1 safety factor. Replacement safety latches are available on page 1071.

Working Load Limit	Hook Opening	Hook Reach Length	Eye Inside Width	Eye Inside Height	Dia.	Color	Item No.
Alloy Steel, Includes Latch							
Eye Hook Attachment							
2,000 lb	29/32 in	3 11/32 in	¾ in	¾ in	11/32 in	Gold	**29WP93**
3,000 lb	29/32 in	3 13/16 in	29/32 in	29/32 in	13/32 in	Gold	**29WP94**
4,000 lb	1 in	4 5/32 in	1 ⅛ in	1 ⅛ in	17/32 in	Gold	**29WP95**
6,000 lb	1 3/32 in	4 11/16 in	1 ¼ in	1 ¼ in	1/32 in	Gold	**29WP96**
10,000 lb	1 11/32 in	5 25/32 in	1 9/16 in	1 9/16 in	23/32 in	Gold	**29WP97**
14,000 lb	1 19/32 in	7 ⅜ in	2 in	2 in	29/32 in	Gold	**29WP98**
22,000 lb	2 13/16 in	9 3/32 in	2 7/16 in	2 7/16 in	1 3/32 in	Gold	**29WP99**
30,000 lb	2 9/32 in	10 25/32 in	2 27/32 in	2 27/32 in	1 ¼ in	Gold	**29WR01**
44,000 lb	3 1/32 in	12 17/32 in	3 ½ in	3 ½ in	1 1/32 in	Gold	**29WR02**
Swivel Eye Hook Attachment							
2,000 lb	29/32 in	4 17/32 in	1 ¼ in	13/16 in	⅜ in	Gold	**29WR12**
3,000 lb	29/32 in	5 ⅜ in	1 ½ in	1 5/16 in	½ in	Gold	**29WR13**
4,000 lb	1 in	6 ⅛ in	1 ¾ in	1 ½ in	⅝ in	Gold	**29WR14**
6,000 lb	1 29/32 in	6 ½ in	1 ¾ in	1 ½ in	⅝ in	Gold	**29WR15**
10,000 lb	1 11/32 in	7 ½ in	2 in	1 ⅝ in	¾ in	Gold	**29WR16**
14,000 lb	1 19/32 in	9 ⅝ in	2 ½ in	2 9/32 in	1 in	Gold	**29WR17**
22,000 lb	2 25/32 in	11 ⅜ in	2 ¾ in	2 7/16 in	1 ⅛ in	Gold	**29WR18**
30,000 lb	2 9/32 in	12 ¼ in	3 ⅛ in	2 15/32 in	1 ¼ in	Gold	**29WR19**
44,000 lb	3 7/32 in	16 23/32 in	4 3/32 in	3 ¾ in	1 ½ in	Gold	**29WR20**
Carbon Steel, Includes Latch							
Eye Hook Attachment							
1,500 lb	29/32 in	3 11/32 in	¾ in	¾ in	11/32 in	Red	**29WP84**
2,000 lb	29/32 in	3 13/16 in	29/32 in	29/32 in	13/32 in	Red	**29WP85**
3,000 lb	1 in	4 5/32 in	1 ⅛ in	1 ⅛ in	17/32 in	Red	**29WP86**
4,000 lb	1 29/32 in	4 11/16 in	1 ¼ in	1 ¼ in	1/32 in	Red	**29WP87**
6,000 lb	1 11/32 in	5 25/32 in	1 9/16 in	1 9/16 in	23/32 in	Red	**29WP88**
10,000 lb	1 ⅝ in	7 ⅜ in	2 in	2 in	29/32 in	Red	**29WP89**
15,000 lb	2 13/16 in	9 3/32 in	2 7/16 in	2 7/16 in	1 3/32 in	Red	**29WP90**
20,000 lb	2 9/32 in	10 25/32 in	2 27/32 in	2 27/32 in	1 ¼ in	Red	**29WP91**
30,000 lb	3 1/32 in	12 17/32 in	3 ½ in	3 ½ in	1 1/32 in	Red	**29WP92**
Swivel Eye Hook Attachment							
1,500 lb	29/32 in	4 17/32 in	1 ¼ in	13/16 in	⅜ in	Red	**29WR03**
2,000 lb	29/32 in	5 ⅝ in	1 ½ in	1 5/16 in	½ in	Red	**29WR04**
3,000 lb	1 in	6 ⅛ in	1 ¾ in	1 ½ in	⅝ in	Red	**29WR05**
4,000 lb	1 29/32 in	6 ½ in	1 ¾ in	1 ½ in	⅝ in	Red	**29WR06**
6,000 lb	1 11/32 in	7 ½ in	2 in	1 ⅝ in	¾ in	Red	**29WR07**
10,000 lb	1 19/32 in	9 ⅝ in	2 ½ in	2 9/32 in	1 in	Red	**29WR08**
15,000 lb	2 25/32 in	11 ⅜ in	2 ¾ in	2 7/16 in	1 ⅛ in	Red	**29WR09**
20,000 lb	2 9/32 in	12 ¼ in	3 ⅛ in	2 15/32 in	1 ¼ in	Red	**29WR10**
30,000 lb	3 7/32 in	16 23/32 in	4 3/32 in	3 ¾ in	1 ½ in	Red	**29WR11**
Carbon Steel, Without Latch							
Swivel Eye Hook Attachment							
15,000 lb	2 3/32 in	11 ⅜ in	2 ½ in	2 9/32 in	1 ⅛ in	Red	**400D86**

Master Link Sub Assembly

Swivel Latch Lock

Clevis Pin Latch Lock Slip Hook

Dayton

Grade 80 Chain Sling Components

Build chain slings to meet specific application needs and requirements. Latch lock, slip hooks, and coupling links meet ANSI/ASME B30.9 and OSHA Standards. OSHA requires ID tag on overhead chain slings.

Description	Working Load Limit	Trade Size	Finish	Item No.	
Master Link Sub Assembly	9,100 lb	¾"	Powder Coated	5WRT1	*
Swivel Latch Lock	3,500 lb	9⁄32 in	Powder Coated	5WRT4	
Swivel Latch Lock Slip Hook	7,100 lb	⅜ in	Powder Coated	5WRT5	
	12,000 lb	½ in	Powder Coated	5WRT6	
Clevis Pin Latch Lock Slip Hook	3,500 lb	9⁄32 in	Powder Coated	5WRT7	
	7,100 lb	⅜ in	Powder Coated	5WRT8	
	12,000 lb	½ in	Powder Coated	5WRT9	
Sling ID Tag	N/A	1⁄16"	Zinc-Plated	5WRU0	
Sling ID Tag With Ring	N/A	1⁄16"	Zinc-Plated	5WRU1	

** Trade size shown is for chain used on sublinks.*

9Y241

YOKE
Safety is our first priority™

Grade 100 Clevis Foundry Hooks

Steel with powder-coated finish.

Trade Size	Working Load Limit	Hook Opening	Color	Item No.
⅜ in	8,800 lb	2 31⁄32 in	Orange	9YFV9
½ in	15,000 lb	3 15⁄32 in	Orange	9Y241
⅝ in	22,600 lb	3 ⅞ in	Red	9Y150

13H127

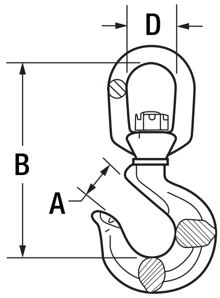
YOKE
Safety is our first priority™

Grade 100 Chain Sling Coupling Links

Alloy steel with powder-coat finish.

Working Load Limit	Trade Size	Item No.
5,700 lb	¼ to 5⁄16 in	13H127
8,800 lb	⅜ in	13H128
15,000 lb	½ in	13H129
22,600 lb	⅝ in	13H130

1DNH6



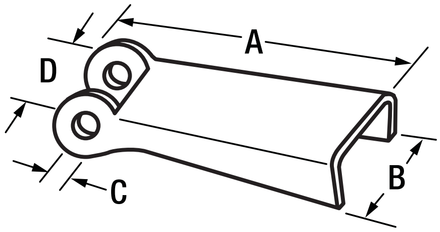
Alloy Steel
- for Lifting
- Swivel

Dayton

Swivel Hooks with Latch

Prevent wire rope and chain from twisting while lifting and aligning loads. Hooks are heat treated.

Working Load Limit	Dim. A	Dim. B	Dim. D	Item No.
Grade 80 - Alloy Steel				
2,000 lb	15⁄16"	4⅝"	1¼"	1DNH6
3,000 lb	31⁄32"	5 7⁄16"	1½"	1DNH7
4,000 lb	1 1⁄16"	6¼"	1¾"	1DNH8
6,000 lb	1 3⁄16"	6½"	1¾"	1DNH9
10,000 lb	1½"	7½"	2"	1DNJ1
Grade 70 - Carbon Steel				
1,500 lb	15⁄16"	4 9⁄16"	1¼"	2YPD5
Grade 40 - Carbon Steel				
10,000 lb	1 11⁄16"	9⅝"	2½"	2YPE1



Crosby Replacement Safety Latches

Designed to fit most hooks with a drilled pin hole. Match the distance of your hook opening to dimension A. Include mounting hardware.

C	A	B	D	Item No.
Stainless Steel				
11⁄64 in	2 13⁄32 in	1 in	9⁄16 in	48FR92
3⁄16 in	1 27⁄32 in	53⁄64 in	15⁄32 in	48FR91
13⁄64 in	2 31⁄32 in	1 7⁄32 in	37⁄64 in	48FR93

C	A	B	D	Item No.
Steel				
5⁄32 in	1 7⁄16 in	½ in	½ in	29WR21
11⁄64 in	1 9⁄16 in	½ in	35⁄64 in	29WR22
	1 21⁄32 in	½ in	⅝ in	29WR23
	1 29⁄32	⅝ in	21⁄32 in	29WR24
13⁄64 in	2 5⁄16 in	⅝ in	53⁄64 in	29WR25
	2 ⅞ in	15⁄16 in	1 3⁄64 in	29WR26
17⁄64 in	3 9⁄16 in	1 9⁄64 in	1 ¼ in	29WR27
	3 13⁄16 in	1 9⁄64 in	1 23⁄64 in	29WR28
25⁄64 in	5 5⁄32 in	1 ½ in	1 21⁄32 in	29WR29

Grade 30 Proof Coil Chains

Grade 43 High Test Chain

Grade 70 Transport Chain

Grade 80 Lifting Chain

Dayton LACLEDE CHAIN PEERLESS A KITO GROUP COMPANY

Straight Chains

Grade 30 Coil—Constructed of low-carbon steel for light- to medium-duty use.

Grade 43 High Test—Steel chains have greater tensile strength than proof coil. Use as binder chains for securing loads.

Grade 70 Transport—High-strength, heat-treated chains offer durability for securing loads.

Grade 80 and 100 Lifting—Made from heat-treated alloy steel for overhead lifting and towing applications.

L	Links per Ft.	Finish	Brand	Item No.
Grade 30 Coil Chain				
5/0 - 925 lb Working Load				
100 ft	11.2	Galvanized	Dayton	**34RZ88**
½ in - 4,500 lb Working Load				
20 ft	6.7	Galvanized	Dayton	**34RZ22**
	6.7	Self Colored	Dayton	**34RZ17**
100 ft	6.7	Galvanized	Dayton	**34RZ25**
	6.7	Galvanized	Dayton	**34RZ28**
	6.7	Self Colored	Dayton	**34RZ20**
200 ft	6.7	Galvanized	Dayton	**34RZ26**
	6.7	Galvanized	Dayton	**34RZ29**
¼ in - 1,300 lb Working Load				
20 ft	9.67	Galvanized	Dayton	**34RZ01**
	9.67	Self Colored	Dayton	**34RY96**
	10	Galvanized	Dayton	**1DJT9**
140 ft	10	Galvanized	Dayton	**1DJU1**
141 ft	9.67	Galvanized	Dayton	**34RZ02**
	9.67	Self Colored	Dayton	**34RY97**
800 ft	9.6	Galvanized	Laclede	**34RD60**
	9.67	Galvanized	Dayton	**34RZ04**
	9.67	Galvanized	Dayton	**34RZ06**
⅜ in - 2,650 lb Working Load				
20 ft	9	Galvanized	Dayton	**1DJU4**
60 ft	9	Galvanized	Dayton	**1DJU5**
200 ft	8.7	Galvanized	Dayton	**34RZ15**
400 ft	8.7	Galvanized	Dayton	**34RZ16**
3⁄16 in - 800 lb Working Load				
20 ft	12.3	Galvanized	Dayton	**34RY91**
	12.3	Self Colored	Dayton	**34RY87**
	13	Galvanized	Dayton	**1DJT6**
250 ft	12.3	Galvanized	Dayton	**34RY92**
	12.3	Self Colored	Dayton	**34RY88**
	13	Galvanized	Dayton	**1DJT7**
800 ft	12.3	Galvanized	Dayton	**34RY93**
	13	Galvanized	Dayton	**1DJT8**
1,600 ft	12.3	Galvanized	Dayton	**34RY95**
5⁄16 in - 1,900 lb Working Load				
20 ft	9.3	Galvanized	Dayton	**34RZ11**
	9.3	Self Colored	Dayton	**34RZ07**
	10	Galvanized	Dayton	**1DJU2**
90 ft	10	Galvanized	Dayton	**1DJU3**
92 ft	9.3	Galvanized	Dayton	**34RZ12**
	9.3	Self Colored	Dayton	**34RZ08**
275 ft	9.3	Galvanized	Dayton	**34RZ13**
550 ft	9.3	Galvanized	Dayton	**34RZ14**
	9.3	Self Colored	Dayton	**34RZ10**
Grade 30 Proof Coil Chain				
1 in - 17,900 lb Working Load				
60 ft	4	Galvanized	Peerless	**48RP93**
	4	Self Colored	Peerless	**48RP58**
½ in - 4,500 lb Working Load				
20 ft	7	Zinc	Peerless	**48RP84**
35 ft	7	Zinc	Peerless	**48RP79**
100 ft	7	Galvanized	Peerless	**48RP98**
	7	Self Colored	Peerless	**48RP63**
	7	Zinc	Peerless	**48RP74**
200 ft	7	Galvanized	Peerless	**48RP89**
	7	Self Colored	Peerless	**48RP54**
	7	Zinc	Peerless	**48RP68**
¼ in - 1,300 lb Working Load				
20 ft	10	Galvanized	Peerless	**48RR05**
	10	Zinc	Peerless	**48RP81**
141 ft	10	Galvanized	Peerless	**48RR01**
400 ft	10	Galvanized	Peerless	**48RP95**
	10	Self Colored	Peerless	**48RP60**
	10	Zinc	Peerless	**48RP71**
800 ft	10	Galvanized	Peerless	**48RP86**
	10	Self Colored	Peerless	**48RP51**
	10	Zinc	Peerless	**48RP65**
¾ in - 10,600 lb Working Load				
100 ft	5	Galvanized	Peerless	**48RP91**
	5	Self Colored	Peerless	**48RP56**

L	Links per Ft.	Finish	Brand	Item No.
⅜ in - 2,650 lb Working Load				
20 ft	9	Galvanized	Peerless	**48RR07**
	9	Zinc	Peerless	**48RP83**
63 ft	9	Galvanized	Peerless	**48RR03**
	9	Zinc	Peerless	**48RP78**
200 ft	9	Galvanized	Peerless	**48RP97**
	9	Self Colored	Peerless	**48RP62**
	9	Zinc	Peerless	**48RP73**
400 ft	9	Galvanized	Peerless	**48RP88**
	9	Self Colored	Peerless	**48RP53**
	9	Zinc	Peerless	**48RP67**
3⁄16 in - 800 lb Working Load				
20 ft	12	Galvanized	Peerless	**48RR04**
	12	Zinc	Peerless	**48RP80**
250 ft	12	Galvanized	Peerless	**48RP99**
400 ft	12	Galvanized	Peerless	**48RP94**
	12	Self Colored	Peerless	**48RP59**
	12	Zinc	Peerless	**48RP70**
800 ft	12	Galvanized	Peerless	**48RP85**
	12	Self Colored	Peerless	**48RP50**
	12	Zinc	Peerless	**48RP64**
⅝ in - 6,900 lb Working Load				
150 ft	6	Galvanized	Peerless	**48RP90**
	6	Self Colored	Peerless	**48RP55**
	6	Zinc	Peerless	**48RP69**
5⁄16 in - 1,900 lb Working Load				
20 ft	9	Galvanized	Peerless	**48RR06**
	9	Zinc	Peerless	**48RP82**
92 ft	9	Galvanized	Peerless	**48RR02**
	9	Zinc	Peerless	**48RP77**
275 ft	9	Galvanized	Peerless	**48RP96**
	9	Self Colored	Peerless	**48RP61**
	9	Zinc	Peerless	**48RP72**
550 ft	9	Galvanized	Peerless	**48RP87**
	9	Self Colored	Peerless	**48RP52**
	9	Zinc	Peerless	**48RP66**
⅞ in - 12,800 lb Working Load				
75 ft	5	Galvanized	Peerless	**48RP92**
	5	Self Colored	Peerless	**48RP57**
Grade 43 High Test Chain				
½ in - 9,200 lb Working Load				
20 ft	6.7	Galvanized	Dayton	**34RZ67**
	7	Self Colored	Dayton	**1DJR7**
¼ in - 2,600 lb Working Load				
20 ft	9.67	Galvanized	Dayton	**34RZ34**
	10	Self Colored	Dayton	**1DJR3**
130 ft	10	Self Colored	Dayton	**1DJR4**
135 ft	9.67	Galvanized	Dayton	**34RZ35**
400 ft	9.67	Galvanized	Dayton	**34RZ38**
800 ft	9.67	Galvanized	Dayton	**34RZ39**
⅜ in - 5,400 lb Working Load				
20 ft	9	Self Colored	Dayton	**1DJR5**
60 ft	9	Self Colored	Dayton	**1DJR6**
63 ft	8.7	Galvanized	Dayton	**34RZ57**
200 ft	8.7	Galvanized	Dayton	**34RZ58**
	8.7	Self Colored	Dayton	**34RZ54**
400 ft	8.7	Galvanized	Dayton	**34RZ59**
	8.7	Galvanized	Dayton	**34RZ61**
	8.7	Self Colored	Dayton	**34RZ55**
5⁄16 in - 3,900 lb Working Load				
20 ft	9.3	Galvanized	Dayton	**34RZ44**
	9.3	Galvanized	Dayton	**34RZ48**
	9.3	Self Colored	Dayton	**34RZ40**
90 ft	9.3	Galvanized	Dayton	**34RZ49**
Grade 70 Transport Chain				
½ in - 11,300 lb Working Load				
20 ft	7	Gold Chromate	Dayton	**1DJT4**
	7	Gold Chromate	Peerless	**48RP08**
37 ft	6.7	Gold Chromate	Dayton	**34RZ83**
	7	Gold Chromate	Peerless	**48RP09**
50 ft	7	Gold Chromate	Dayton	**1DJT5**
	7	Gold Chromate	Peerless	**48RP10**

L	Links per Ft.	Finish	Brand	Item No.
100 ft	6.7	Gold Chromate	Dayton	**34RZ84**
	7	Gold Chromate	Peerless	**48RN99**
200 ft	6.7	Gold Chromate	Dayton	**34RZ85**
	7	Gold Chromate	Peerless	**48RN94**
¼ in - 3,150 lb Working Load				
20 ft	9.67	Gold Chromate	Dayton	**34RZ75**
	10	Gold Chromate	Peerless	**48RP05**
150 ft	10	Gold Chromate	Peerless	**48RP02**
400 ft	10	Gold Chromate	Peerless	**48RN96**
800 ft	10	Gold Chromate	Peerless	**48RN90**
⅜ in - 6,600 lb Working Load				
20 ft	9	Gold Chromate	Dayton	**1DJT2**
	9	Gold Chromate	Peerless	**48RP07**
60 ft	9	Gold Chromate	Dayton	**1DJT3**
75 ft	9	Gold Chromate	Peerless	**48RP04**
400 ft	8.7	Gold Chromate	Dayton	**34RZ82**
	9	Gold Chromate	Peerless	**48RN92**
⅝ in - 15,800 lb Working Load				
75 ft	6	Gold Chromate	Peerless	**48RP01**
150 ft	6	Gold Chromate	Peerless	**48RN95**
5⁄16 in - 4,700 lb Working Load				
20 ft	10	Gold Chromate	Dayton	**1DJR9**
	11	Gold Chromate	Peerless	**48RP06**
90 ft	10	Gold Chromate	Dayton	**1DJT1**
100 ft	11	Gold Chromate	Peerless	**48RP03**
275 ft	11	Gold Chromate	Peerless	**48RN97**
550 ft	11	Gold Chromate	Peerless	**48RN91**
7⁄16 in - 8,750 lb Working Load				
300 ft	7	Gold Chromate	Peerless	**48RN93**
Grade 80 Lifting Chain				
½ in - 12,000 lb Working Load				
5 ft	8	Black Oxide	Dayton	**5WRR4**
10 ft	8	Black Oxide	Dayton	**5WRR5**
20 ft	8	Black Oxide	Dayton	**5WRR7**
⅜ in - 7,100 lb Working Load				
5 ft	13	Black Oxide	Dayton	**5WRR0**
10 ft	13	Black Oxide	Dayton	**5WRR1**
20 ft	10	Black Oxide	Dayton	**5WRR2**
30 ft	10	Black Oxide	Dayton	**5WRR3**
9⁄32 in - 3,500 lb Working Load				
5 ft	15	Black Oxide	Dayton	**5WRP6**
10 ft	15	Black Oxide	Dayton	**5WRP7**
20 ft	15	Black Oxide	Dayton	**5WRP8**
40 ft	15	Black Oxide	Dayton	**5WRP9**
Grade 100 Lifting Chain				
½ in - 15,000 lb Working Load				
5 ft	8	Black Thermadep	Peerless	**48RN51**
10 ft	8	Black Thermadep	Peerless	**48RN52**
15 ft	8	Black Thermadep	Peerless	**48RN53**
20 ft	8	Black Thermadep	Peerless	**48RN54**
30 ft	8	Black Thermadep	Peerless	**48RN55**
⅜ in - 8,800 lb Working Load				
5 ft	10	Black Thermadep	Peerless	**48RN46**
10 ft	10	Black Thermadep	Peerless	**48RN47**
15 ft	10	Black Thermadep	Peerless	**48RN48**
20 ft	10	Black Thermadep	Peerless	**48RN49**
30 ft	10	Black Thermadep	Peerless	**48RN50**
⅝ in - 22,600 lb Working Load				
10 ft	6	Black Thermadep	Peerless	**48RN56**
5⁄16 in - 5,700 lb Working Load				
5 ft	12	Black Thermadep	Peerless	**48RN41**
10 ft	12	Black Thermadep	Peerless	**48RN42**
15 ft	12	Black Thermadep	Peerless	**48RN43**
20 ft	12	Black Thermadep	Peerless	**48RN44**
30 ft	12	Black Thermadep	Peerless	**48RN45**
9⁄32 in - 4,300 lb Working Load				
5 ft	14	Black Thermadep	Peerless	**48RN36**
10 ft	14	Black Thermadep	Peerless	**48RN37**
15 ft	14	Black Thermadep	Peerless	**48RN38**
20 ft	14	Black Thermadep	Peerless	**48RN39**
800 ft	14	Black Thermadep	Peerless	**48RN24**

Dayton

General Utility Chains

Durable, welded-steel links are for use as barriers or tailgates in addition to other applications where low-tensile strength is required. Zinc-plated for corrosion resistance. Straight and Twist Link chains meet NACM Standards.

Note: Do not use utility chains for lifting.

Straight Link Coil

Straight Passing Link Chain

Trade Size	L	Working Load Limit	Finish	Brand	Item No.
Double Loop Link Chains					
5	100 ft	55 lb	Zinc	—	**2ZDH3**
4	100 ft	70 lb	Zinc	—	**2ZDH4**
	100 ft	70 lb	Galvanized	—	**2ZDJ1**
02/0	100 ft	255 lb	Zinc	—	**2ZDH7**
	100 ft	255 lb	Galvanized	—	**2ZDJ4**
	100 ft	255 lb	Plain	—	**2ZDJ8**
3	100 ft	90 lb	Galvanized	—	**2ZDJ2**
	100 ft	90 lb	Zinc	—	**2ZDK1**
	100 ft	100 lb	Plain	—	**2ZDJ6**
2	100 ft	115 lb	Zinc	—	**2ZDH5**
1	100 ft	155 lb	Zinc	—	**2ZDH6**
	100 ft	155 lb	Plain	—	**2ZDJ7**
1/0	100 ft	200 lb	Galvanized	—	**2ZDJ3**
3/0	100 ft	305 lb	Zinc	—	**2ZDH8**
4/0	100 ft	365 lb	Zinc	—	**2ZDH9**
Jack Link Chains					
10	100 ft	34 lb	Plain	—	**2ZDG6**
	100 ft	43 lb	Zinc	—	**2ZDE8**
	100 ft	43 lb	Nickel	—	**2ZDF5**
	100 ft	43 lb	Brass	—	**2ZDG2**
	100 ft	43 lb	Plain	—	**2ZDH2**
12	100 ft	29 lb	Nickel	—	**2ZDF4**
	100 ft	29 lb	Plain	—	**2ZDH1**
	100 ft	29 lb	Zinc	—	**2ZDJ9**
14	100 ft	11 lb	Plain	—	**2ZDG4**
	100 ft	16 lb	Zinc	—	**2ZDE7**
	100 ft	16 lb	Nickel	—	**2ZDF3**
	100 ft	16 lb	Plain	—	**2ZDG9**
16	100 ft	8 lb	Plain	—	**2ZDG3**
	100 ft	10 lb	Zinc	—	**2ZDE6**
	100 ft	10 lb	Nickel	—	**2ZDF2**
	100 ft	10 lb	Brass	—	**2ZDF8**
	100 ft	10 lb	Plain	—	**2ZDG8**
18	100 ft	5 lb	Zinc	—	**2ZDE5**
	100 ft	5 lb	Nickel	—	**2ZDF1**
	100 ft	5 lb	Brass	—	**2ZDF7**
	100 ft	5 lb	Plain	—	**2ZDG7**
20	100 ft	3 lb	Nickel	—	**2ZDE9**
	100 ft	3 lb	Brass	—	**2ZDF6**
Straight Link Coil Chains					
4	25 ft	205 lb	Galvanized	Dayton	**1DKE2**
	100 ft	205 lb	Galvanized	Dayton	**1DKE3**
02/0	10 ft	520 lb	Self Colored	Dayton	**1DKD5**
	10 ft	520 lb	Galvanized	Dayton	**1DKF1**
	50 ft	520 lb	Self Colored	Dayton	**1DKD6**
	50 ft	520 lb	Galvanized	Dayton	**1DKF2**
2	10 ft	310 lb	Galvanized	Dayton	**1DKE4**
	50 ft	310 lb	Galvanized	Dayton	**1DKE5**
1	10 ft	370 lb	Galvanized	Dayton	**1DKE6**
	50 ft	370 lb	Galvanized	Dayton	**1DKE7**
1/0	10 ft	440 lb	Self Colored	Dayton	**1DKD3**
	10 ft	440 lb	Galvanized	Dayton	**1DKE8**
3/0	10 ft	605 lb	Galvanized	Dayton	**1DKF3**
	50 ft	605 lb	Galvanized	Dayton	**1DKF4**
4/0	10 ft	670 lb	Zinc Plated	Dayton	**1DKF5**
	50 ft	670 lb	Galvanized	Dayton	**1DKF6**
5/0	50 ft	880 lb	Galvanized	Dayton	**1DKF8**
6/0	10 ft	999 lb	Galvanized	Dayton	**1DKF9**
	50 ft	999 lb	Galvanized	Dayton	**1DKG1**
Straight Link Machine Chains					
4	25 ft	215 lb	Self Colored	Dayton	**1DJZ9**
	25 ft	215 lb	Galvanized	Dayton	**1DKB3**
	100 ft	215 lb	Self Colored	Dayton	**1DKA1**
	100 ft	215 lb	Galvanized	Dayton	**1DKB4**
02/0	50 ft	545 lb	Self Colored	Dayton	**1DKA7**
	50 ft	545 lb	Galvanized	Dayton	**1DKC5**
3	100 ft	270 lb	Galvanized	Dayton	**1DKB6**
2	25 ft	325 lb	Self Colored	Dayton	**1DKA2**
	100 ft	325 lb	Galvanized	Dayton	**1DKB8**
1	25 ft	390 lb	Galvanized	Dayton	**1DKB9**
	100 ft	390 lb	Galvanized	Dayton	**1DKC1**
1/0	50 ft	465 lb	Galvanized	Dayton	**1DKC3**
2/0	25 ft	545 lb	Self Colored	Dayton	**1DKA6**
4/0	10 ft	700 lb	Galvanized	Dayton	**1DKC8**
	50 ft	700 lb	Self Colored	Dayton	**1DKA9**
	50 ft	700 lb	Galvanized	Dayton	**1DKC9**
5/0	50 ft	925 lb	Galvanized	Dayton	**1DKD2**
Straight Passing Link Chains					
02/0	10 ft	450 lb	Galvanized	Dayton	**1DKH3**
	50 ft	450 lb	Galvanized	Dayton	**1DKH4**
4/0	10 ft	600 lb	Galvanized	Dayton	**1DKH5**
	50 ft	600 lb	Galvanized	Dayton	**1DKH6**
Twist Link Coil Chains					
4	10 ft	195 lb	Galvanized	Dayton	**1DKG2**
	50 ft	195 lb	Zinc	Dayton	**1DKG3**
02/0	50 ft	495 lb	Galvanized	Dayton	**1DKH2**
3	50 ft	240 lb	Galvanized	Dayton	**1DKG5**
2	10 ft	295 lb	Galvanized	Dayton	**1DKG6**
1/0	10 ft	415 lb	Galvanized	Dayton	**1DKG8**
	50 ft	415 lb	Galvanized	Dayton	**1DKG9**

CAMPBELL

Grade 30 Connecting Links

Attach accessories to connect chain pieces together. Drop-forged, heat-treated carbon steel is self-colored. Meet design requirements of Federal Specification RR-C-271D, Type II.

Note: Do not exceed the working load limit.

Trade Size	Working Load Limit	Item No.
1/4 in	1,400 lb	**49JN74**
5/16 in	2,000 lb	**49JN75**
3/8 in	2,800 lb	**49JN76**

9XEF4

B/A PRODUCTS CO.

Grade 70 Double Clevis Links

Reusable, easy-to-install connectors for short- or long-term use. Steel with natural finish.

Note: Not for overhead lifting.

Trade Size	Working Load Limit	Item No.
5/16 in	4,700 lb	**9XHY2**
3/8 in	6,600 lb	**9XDM5**
1/2 in	11,300 lb	**9XEF4**

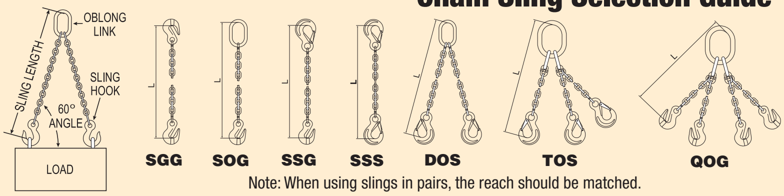
PEERLESS A KITO GROUP COMPANY   RONSTAN

Quick Links

Large opening and threaded locking sleeves make attachments easy and secure. Zinc-plated, low-carbon steel prevents rusting. Grade 316 stainless steel provides corrosion resistance and extra strength.

Trade Size	Working Load Limit	Brand	Item No.
Low Carbon Steel			
1/4 in	880 lb	Peerless	**38XH96**
316 Stainless Steel			
5/32 in	616 lb	Ronstan	**6HJC6**
1/4 in	1,433 lb	Ronstan	**6HJC7**
5/16 in	2,425 lb	Ronstan	**6HJC8**
13/32 in	3,960 lb	Ronstan	**6HJC9**

Chain Sling Selection Guide



Note: When using slings in pairs, the reach should be matched.

Type	Description
SGG	Single, grab hook each end
SOG	Single, oblong master link and grab hook
SOS	Single, oblong master link and sling hook
SSG	Single, sling hook one end, grab hook one end
SSS	Single, sling hook each end
DOG	Double, oblong master link and grab hook each leg
DOS	Double, oblong master link and sling hook each end
TOS	Triple, oblong master link and sling hook each leg
TOG	Triple, oblong master link and grab hook each leg
QOG	Quad, oblong master link and grab hook each leg
QOS	Quad, oblong master link and sling hook each leg

SGG

TOS

Dayton · LiftAll · pewag

Chain Slings

Durable metal ID tag is attached to each sling.

Note: See Grainger.com® to view sling capacities for the lowest angle at which slings are rated for use.

Grade 63 Stainless Steel—Chain and components are rated for overhead lifting. Not for temperatures over 650°F.

Grade 80 Alloy—Manufactured from alloy steel and engineered for superior strength, lightness, and durability. Chain is embossed with Grade 80.

Grade 120 Alloy—Workload limits are up to 50% higher compared to G80. Lighter in weight when you downsize your sling, with higher design factors and improved wear resistance when used at Grade 80 workload limits.

Chain Size	Sling Capacity @ 90°	Sling Type	5 FT SLING LENGTH Item No.	10 FT SLING LENGTH Item No.
Grade 63 Stainless Steel - Pewag				
3⁄16 in	1,400 lb	SOS	2VCR5	2VCR6
		SSS	2VCT3	2VCT4
	2,400 lb	DOS	2VCU1 *	2VCU2 *
	3,600 lb	TOS	2VCU8 *	2VCU9 *
		QOS	—	2VCW1 *
9⁄32 in	2,700 lb	SSS	2VCG6	2VCT5
		SOS	2VCG5	2VCR7
	4,600 lb	DOS	2VCG7 *	2VCU3 *
	7,000 lb	TOS	2VCV1 *	2VCV2 *
		QOS	2VCW2 *	2VCW3 *
⅜ in	5,500 lb	SOS	2VCG8	2VCR8
		SSS	2VCG9	2VCT6
	9,300 lb	DOS	2VCH1 *	2VCU4 *
	14,300 lb	TOS	2VCV3 *	2VCV4 *
		QOS	2VCW4 *	2VCW5 *
½ in	9,300 lb	SSS	—	2VCT7
		SOS	2VCH2	2VCR9
	13,900 lb	SSS	2VCH3	—
	15,800 lb	DOS	2VCH4 *	2VCU5 *
	24,200 lb	TOS	2VCV5 *	2VCV6 *
		QOS	2VCW6 *	2VCW7 *
⅝ in	9,300 lb	SSS	—	2VCT9
	13,900 lb	SOS	2VCT1	2VCT2
		SSS	2VCT8	—
	23,600 lb	DOS	2VCU6 *	2VCU7 *
	36,100 lb	TOS	2VCV7 *	2VCV8 *
		QOS	2VCW8 *	2VCW9 *

Chain Size	Sling Capacity @ 90°	Sling Type	5 FT SLING LENGTH Item No.	10 FT SLING LENGTH Item No.
Grade 80 Alloy Steel - Dayton				
9⁄32 in	3,500 lb	SGG	2UKD5	2UKD7
	6,100 lb	DOS	2UKD9 *	—
⅜ in	7,100 lb	SGG	2UKE9	2UKE3
	12,300 lb	DOS	2UKE5 *	—
	18,400 lb	TOS	400F09 *	—
Grade 100 Steel - Lift-All				
7⁄32 in	2,700 lb	SOS	33KE95	33KE87
	4,700 lb	DOS	33KE84 *	33KE76 *
9⁄32 in	4,300 lb	SOS	38Y955	38Y947
	7,400 lb	DOS	38Y944 *	38Y936 *
⅜ in	8,800 lb	SOS	38Y933	38Y925
	15,200 lb	DOS	38Y922 *	38Y914 *
½ in	15,000 lb	SOS	38Y892	38Y886
	26,000 lb	DOS	38Y883 *	38Y877 *
⅝ in	22,600 lb	SOS	38Y874	38Y868
	39,100 lb	DOS	38Y865 *	38Y859 *
¾ in	35,300 lb	SOS	38Y911	38Y905
	61,100 lb	DOS	38Y902 *	38Y895 *
Grade 120 Alloy Steel - Pewag				
9⁄32 in	5,200 lb	SOS	2VCF2	2VCK8
		SOG	2VCH5	2VCH6
		SSG	2VCJ2	2VCJ3
		SGG	2VCJ8	2VCF3
		SSS	2VCK2	2VCK3
	9,000 lb	DOS	2VCF4 *	2VCL5 *
		DOG	2VCF5 *	2VCL2 *
	13,500 lb	TOG	2VCL8 *	2VCL9 *
		TOS	2VCN5 *	2VCN6 *
		QOG	2VCP2 *	2VCP3 *
		QOS	2VCP8 *	2VCP9 *
⅜ in	10,600 lb	SOS	2VCF6	2VCK9
		SOG	2VCH7	2VCH8
		SSG	2VCJ4	2VCJ5
		SSS	2VCK4	2VCK5
		SGG	2VCJ9	2VCF7
	18,400 lb	DOG	2VCF9 *	2VCL3 *
		DOS	2VCF8 *	2VCL6 *
	27,500 lb	TOG	2VCN1 *	2VCN2 *
		TOS	2VCN7 *	2VCN8 *
		QOG	2VCP4 *	2VCP5 *
		QOS	2VCR1 *	2VCR2 *
½ in	17,900 lb	SOS	2VCG1	2VCL1
		SOG	2VCH9	2VCJ1
		SSG	2VCJ6	2VCJ7
		SGG	2VCK1	2VCG2
		SSS	2VCK6	2VCK7
	31,000 lb	DOS	2VCG3 *	2VCL7 *
		DOG	2VCG4 *	2VCL4 *
	46,500 lb	TOG	2VCN3 *	2VCN4 *
		TOS	2VCN9 *	2VCP1 *
		QOG	2VCP6 *	2VCP7 *
		QOS	2VCR3 *	2VCR4 *

***** Load capacity @ 60° angle.***

Dayton · LiftAll · pewag

Adjustable Chain Slings

Handle odd-shaped, hard-to-position loads using either 1- or 2-point lifts. Proof tested and supplied with certificate of test. Ideal for use where headroom is limited, with portable hydraulic cranes and balanced or unbalanced loads.

Note: See Grainger.com® to view sling capacities for the lowest angle at which slings are rated for use.

Grade 100 Alloy—+25% WLL compared to G80. Pewag chain slings include integrated "XK" shortening hook to adjust chain length. Heat resistant to 400°F. Meet the 20,000 cycle ASTM Standard fatigue test for G100.

Chain Size	Sling Length	Sling Capacity@ 60°	Sling Type	Item No.
Grade 80 Alloy Steel - Dayton				
7⁄32 in	6 ft	3,600 lb	2 Adjustable, Control Plate, Sling Hook	4PGW1
	10 ft	3,600 lb	2 Adjustable, Control Plate, Sling Hook	4PGW2
9⁄32 in	6 ft	6,100 lb	2 Adjustable, Control Plate, Sling Hook	4PGW3
	10 ft	6,100 lb	2 Adjustable, Control Plate, Sling Hook	4PGW4
⅜ in	10 ft	12,300 lb	2 Adjustable, Control Plate, Sling Hook	4PGW5
	14 ft	12,300 lb	2 Adjustable, Control Plate, Sling Hook	4PGW6
Grade 100 Alloy Steel - Lift-All				
7⁄32 in	6 ft	4,700 lb	2 Adjustable, Control Plate, Sling Hook	4TZK2
	10 ft	4,700 lb	2 Adjustable, Control Plate, Sling Hook	4TZK3
9⁄32 in	6 ft	7,400 lb	2 Adjustable, Control Plate, Sling Hook	4TZK4
	10 ft	7,400 lb	2 Adjustable, Control Plate, Sling Hook	4TZK5
⅜ in	10 ft	15,200 lb	2 Adjustable, Control Plate, Sling Hook	4TZK6
	14 ft	15,200 lb	2 Adjustable, Control Plate, Sling Hook	4TZK7
Grade 100 Alloy Steel - Pewag				
9⁄32 in	5 ft	4,300 lb	1 Adjustable, Oblong, Sling Hook	2VCE6
	5 ft	7,400 lb	2 Adjustable, Grab Hook, Oblong	2VCE3
	5 ft	11,200 lb	4 Adjustable, Oblong, Sling Hook	2VCE5
	10 ft	7,400 lb	2 Adjustable, Oblong, Sling Hook	2VCE4
⅜ in	5 ft	15,200 lb	2 Adjustable, Oblong, Sling Hook	2VCE9
	10 ft	4,300 lb	1 Adjustable, Oblong, Sling Hook	2VCE7 *
	10 ft	15,200 lb	2 Adjustable, Oblong, Sling Hook	2VCF1
	10 ft	15,200 lb	2 Adjustable, Grab Hook, Oblong	2VCE8

***** Load capacity @ 90° angle.***

Warning! *Do not exceed sling capacity. Sling capacity for an assembly with multiple slings is equal to the lowest sling capacity of the slings in the assembly. Chain slings should never be used at angles lower than the lowest angle for which they have a rated sling capacity.*

Endless - Type 5

Flat Eye and Eye - Type 3

Universal Link - Type U

Attached Eye Cargo Basket - Type 9

No. of Plies	Width	Length	Vertical Hitch Capacity	Choker Hitch Cap.	Basket Hitch Capacity	Brand	Item No.
Endless - Type 5							
1	1 in	3 ft	2,000 lb	1,600 lb	4,000 lb	Lift-All	38R697
		4 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8U113
		6 ft	2,000 lb	1,600 lb	4,000 lb	Lift-All	38R698
		6 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	8AR61
		6 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8EXX2
	2 in	6 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	8PK93
		10 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	8ETL0
2	1 in	4 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V229
		4 ft	6,200 lb	4,900 lb	12,400 lb	Lift-All	38U182
		5 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V230
		6 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V231
	2 in	6 ft	9,600 lb	7,700 lb	19,200 lb	Lift-All	8XCR5
		9 ft	9,600 lb	7,700 lb	19,200 lb	Lift-All	38V247
		12 ft	12,400 lb	9,900 lb	9,900 lb	Lift-All	9T011
Flat Eye and Eye - Type 3							
1	1 in	2 ft	1,200 lb	950 lb	2,400 lb	Lift-All	38U821
		2 ft	1,600 lb	1,280 lb	3,200 lb	Lift-All	38T753
		3 ft	1,000 lb	800 lb	2,000 lb	Lift-All	38R689
		3 ft	1,600 lb	1,280 lb	3,200 lb	Lift-All	38T755
		4 ft	1,200 lb	950 lb	2,400 lb	Lift-All	8AWL0
		4 ft	1,600 lb	1,280 lb	3,200 lb	Lift-All	38T756
		6 ft	1,000 lb	800 lb	2,000 lb	Lift-All	38R690
		6 ft	1,600 lb	1,280 lb	3,200 lb	Lift-All	38T758
		6 ft	2,000 lb	1,600 lb	4,000 lb	Lift-All	38R694
		8 ft	1,600 lb	1,280 lb	3,200 lb	Lift-All	38T760
	2 in	2 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	38U853
		2 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T790
		4 ft	2,000 lb	1,600 lb	4,000 lb	Lift-All	38R691
		4 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	8AWL1
		4 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T793
		6 ft	2,000 lb	1,600 lb	4,000 lb	Lift-All	38R692
		6 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T795
		6 ft	4,000 lb	3,200 lb	8,000 lb	Lift-All	38R696
		8 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T797
		10 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T780
		12 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T782
		20 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T791
	3 in	6 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38T833
		20 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38T829
		24 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	36LG60
	4 in	10 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T855
		12 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T857
	6 in	12 ft	7,200 lb	5,800 lb	14,400 lb	Lift-All	38U946
2	1 in	2 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	38U988
		2 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T936
		3 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8Z262
		4 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	8RMP6
		4 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8EW55
		5 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	38U990
		6 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8EN90
		8 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	9T118
		10 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8UY66
		12 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	8EPC5
		20 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T937
	2 in	2 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V021
		2 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T968
		4 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	8UY67
		6 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	8YD55
		7 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T971
		8 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	9UGC0
		10 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	8EPC7
		12 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	9LGY6
		16 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T964
		18 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T966
		20 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V022
		20 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T969
	3 in	4 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38U005
		6 ft	6,600 lb	5,280 lb	13,200 lb	Lift-All	9CTR5
		6 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38U007
		8 ft	6,600 lb	5,280 lb	13,200 lb	Lift-All	9R098
		8 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38U009
		10 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38T992
		12 ft	6,600 lb	5,280 lb	13,200 lb	Lift-All	9KEM3
		12 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38T994
		20 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38U003
	4 in	6 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U043
		8 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U045
		10 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U029
		12 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U031
		14 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U033
		20 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U039
	6 in	6 ft	16,500 lb	13,200 lb	33,000 lb	Lift-All	38U079
		20 ft	16,500 lb	13,200 lb	33,000 lb	Lift-All	38U075
4	1 in	4 ft	5,000 lb	4,000 lb	10,000 lb	Lift-All	36LG61
Reverse Eye - Type 6 (With Wear-Resistant Cover)							
1	2 in	4 ft	3,600 lb	2,900 lb	7,200 lb	Lift-All	36LG62
Twisted Eye and Eye - Type 4							
1	2 in	5 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T814
		10 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	38U858
	3 in	20 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38T847
	4 in	12 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38U928

Nylon Web Slings

LiftAll® PRODUCTS FOR BETTER LIFTING | STREN-FLEX® STRENGTH & FLEXIBILITY IN LIFTING

- Nylon webbing is recommended for general purpose lifting
- Red core warning yarns indicate wear for easy inspection and replacement
- Required tags show rated capacities and material type
- Meet OSHA 29 CFR 1910.184 and AMSE B30.9 Standards

Endless–Type 5—Versatile slings economically priced for use in all three types of hitches: vertical, choker, and basket. Spread sling legs for improved load balance. Sling rotates to minimize wear.

Flat Eye and Eye–Type 3—Popular slings for use in all three types of hitches. Easier to remove from beneath the load than sling Types 1, 2, and 4.

Reverse Eye–Type 6—Features reinforced eyes and wear pads on both sides of body and eyes for maximum wear resistance. Butted edges are sewn together to double the sling width.

Twisted Eye and Eye–Type 4—Similar to Type 3 except eyes are turned 90° and nest easily on the crane hook.

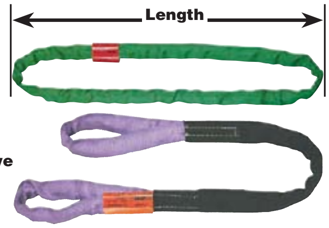
Universal Link–Type U—Helps extend sling life by protecting webbing from abrasion on rough crane hooks. Features Unilink fitting with Web-Trap on each end for use in three hitch types. Unilinks allow choking from either end to help vary wear points.

Attached Eye Cargo Baskets–Type 9—Light-duty basket sling has a wide body for load stability.

No. of Plies	Width	Length	Vertical Hitch Capacity	Choker Hitch Cap.	Basket Hitch Capacity	Brand	Item No.
2	1 in	3 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T953
		4 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T954
		6 ft	3,200 lb	2,500 lb	6,400 lb	Lift-All	38T956
	2 in	2 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T983
		4 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V039
		4 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T986
		6 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V041
		6 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T988
		8 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T990
		10 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V026
		10 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T973
		12 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38V028
		12 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T975
		20 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38T984
	3 in	10 ft	8,800 lb	7,040 lb	17,600 lb	Lift-All	38U011
	4 in	12 ft	11,500 lb	9,200 lb	23,000 lb	Lift-All	38U049
		20 ft	8,600 lb	6,900 lb	17,200 lb	Lift-All	38V104
	6 in	20 ft	16,500 lb	13,200 lb	33,000 lb	Lift-All	38U093
Universal Link - Type U							
1		4 ft	2,400 lb	1,900 lb	4,800 lb	Lift-All	38T053
2	2 in	3 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38R888
		4 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38R889
		5 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38R890
		8 ft	4,800 lb	3,800 lb	9,600 lb	Lift-All	38T112
		20 ft	6,400 lb	5,000 lb	12,800 lb	Lift-All	38R887
	4 in	8 ft	8,600 lb	6,900 lb	17,200 lb	Lift-All	38T148

No. of Plies	Width	Length	Basket Hitch Capacity	Brand	Item No.
Attached Eye Cargo Basket - Type 9					
1	6 in	4 ft	3,000 lb	Stren-Flex	25K433
		6 ft	3,000 lb	Stren-Flex	30H213
	8 in	8 ft	3,000 lb	Stren-Flex	25K439
	10 in	6 ft	3,000 lb	Stren-Flex	30H223
	12 in	4 ft	3,000 lb	Stren-Flex	25K448
		6 ft	3,000 lb	Stren-Flex	30H228
		8 ft	3,000 lb	Stren-Flex	25K449
	16 in	4 ft	5,000 lb	Stren-Flex	25K453
		6 ft	5,000 lb	Stren-Flex	30H233
		12 ft	5,000 lb	Stren-Flex	25K455
	20 in	8 ft	5,000 lb	Stren-Flex	25K459
	24 in	6 ft	5,000 lb	Stren-Flex	30H243
		8 ft	5,000 lb	Stren-Flex	25K464
		12 ft	5,000 lb	Stren-Flex	25K465
2	6 in	4 ft	6,000 lb	Stren-Flex	25K468
	12 in	4 ft	6,000 lb	Stren-Flex	25K483
		6 ft	6,000 lb	Stren-Flex	30H263
		8 ft	6,000 lb	Stren-Flex	25K484
	16 in	4 ft	10,000 lb	Stren-Flex	25K488
		6 ft	10,000 lb	Stren-Flex	30H268
		10 ft	10,000 lb	Stren-Flex	30H269
	20 in	6 ft	10,000 lb	Stren-Flex	30H273
		8 ft	10,000 lb	Stren-Flex	25K494
	24 in	6 ft	10,000 lb	Stren-Flex	30H278
		8 ft	10,000 lb	Stren-Flex	25K499
		12 ft	10,000 lb	Stren-Flex	25K501
		14 ft	10,000 lb	Stren-Flex	30H280
		18 ft	10,000 lb	Stren-Flex	25K502

Endless

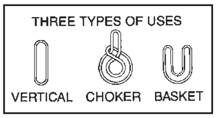


Eye and Eye

Dayton

LiftAll

Polyester Round Slings

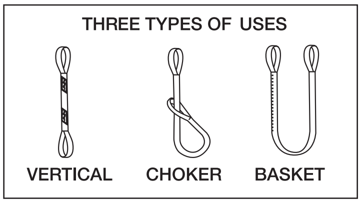


- Color-coded for quick identification
- Sling flattens against load to grip tightly
- Only 3% stretch for better load control

Load-bearing yarns protect from UV degradation and slings are resistant to grease and most acids. Wear points of all endless-style slings shift with each use for maximum sling life. Temperature range: -50° to 200°F. All load fibers protected by two woven covers. Eye and Eye style has an additional wear-resistant cover to extend sling life. Remove sling from service when red striped white core yarns are exposed. Meet or exceed all OSHA and ASME B30.9 Standards.

						DAYTON		LIFT-ALL	
L	Eye Length	Vertical Load	Choker Hitch Cap.	Basket Hitch Capacity	Color Code	Width Under Load	Item No.	Width Under Load	Item No.
Endless									
3 ft.	—	2600 lb.	2,100 lb	5,200 lb	Purple	1 ⅛ in	**2MJK3**	1 in	**4A767**
3 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJL4**	1 ⅜ in	**3KN79**
3 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN3**	1 ¾ in	**2RU55**
4 ft.	—	2600 lb.	2,100 lb	5,200 lb	Purple	1 ⅛ in	**2MJK5**	1 in	**3KN75**
4 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJL6**	1 ⅜ in	**3KN80**
4 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN4**	1 ¾ in	**3KN81**
6 ft.	—	2600 lb.	2,100 lb	5,200 lb	Purple	1 ⅛ in	**2MJK7**	1 in	**3KN76**
6 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJL7**	1 ⅜ in	**4A768**
6 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN5**	1 ¾ in	**3KN82**
6 ft.	—	13,200 lb.	10,600 lb	26,400 lb	Red	2 ¼ in	**2MJP1**	2 in	**2RU58**
6 ft.	—	21,200 lb.	17,000 lb	42,400 lb	Blue	3 in	**2MJP6**	2 ⅝ in	**2RU61**
8 ft.	—	2600 lb.	2,100 lb	5,200 lb	Purple	1 ⅛ in	**2MJK9**	1 in	**3KN77**
8 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJL8**	1 ⅜ in	**4A769**
8 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN6**	1 ¾ in	**3KN83**
8 ft.	—	13,200 lb.	10,600 lb	26,400 lb	Red	2 ¼ in	**2MJP2**	2 in	**3KN73**
8 ft.	—	21,200 lb.	17,000 lb	42,400 lb	Blue	3 in	**2MJP7**	2 ⅝ in	**2RU62**
10 ft.	—	2600 lb.	2,100 lb	5,200 lb	Purple	1 ⅛ in	**2MJL2**	1 in	**2RU52**
10 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJL9**	1 ⅜ in	**3KN78**
10 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN7**	1 ¾ in	**4A770**
10 ft.	—	13,200 lb.	10,600 lb	26,400 lb	Red	2 ¼ in	**2MJP3**	2 in	**3KN72**
10 ft.	—	21,200 lb.	17,000 lb	42,400 lb	Blue	3 in	**2MJP8**	2 ⅝ in	**3KN74**
12 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJN1**	1 ⅜ in	**2RU53**
12 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN8**	1 ¾ in	**2RU56**
12 ft.	—	13,200 lb.	10,600 lb	26,400 lb	Red	2 ¼ in	**2MJP4**	2 in	**2RU59**
12 ft.	—	21,200 lb.	17,000 lb	42,400 lb	Blue	3 in	**2MJP9**	2 ⅝ in	**2RU63**
20 ft.	—	5300 lb.	4,200 lb	10,600 lb	Green	1 ½ in	**2MJN2**	1 ⅜ in	**2RU54**
20 ft.	—	8400 lb.	6,700 lb	16,800 lb	Yellow	1 ⅞ in	**2MJN9**	1 ¾ in	**2RU57**
20 ft.	—	13,200 lb.	10,600 lb	26,400 lb	Red	2 ¼ in	**2MJP5**	2 in	**2RU60**
20 ft.	—	21,200 lb.	17,000 lb	42,400 lb	Blue	3 in	**2MJR1**	2 ⅝ in	**2RU64**
Eye and Eye									
4 ft.	10 in	2600 lb.	2,100 lb	5,200 lb	Purple	2 ¼ in	**2MJR2**	2 ¼ in	**2RU65**
4 ft.	10 in	5300 lb.	4,200 lb	10,600 lb	Green	2 ¼ in	**2MJR4**	2 ½ in	**2RU67**
4 ft.	12 in	8400 lb.	6,700 lb	16,800 lb	Yellow	2 ½ in	**2MJR6**	2 ½ in	**2RU69**
6 ft.	10 in	2600 lb.	2,100 lb	5,200 lb	Purple	2 ¼ in	**2MJR3**	2 ¼ in	**2RU66**
6 ft.	10 in	5300 lb.	4,200 lb	10,600 lb	Green	2 ¼ in	**2MJR5**	2 ½ in	**2RU68**
6 ft.	12 in	8400 lb.	6,700 lb	16,800 lb	Yellow	2 ½ in	**2MJR7**	2 ½ in	**2RU70**

Twisted Eye and Eye - Type 4
Flat Eye and Eye - Type 3
Endless - Type 5



Poly Web Slings

LiftAll

- Woven surface yarns cover each side and carry a portion of the load
- Longitudinal core yarns carry the majority of load
- Red core warning yarns indicate damage
- Tuff-Tag provides serial numbered identification for traceability

Surface yarns are connected side to side to protect core yarns, but also position surface and tensile yarns to work together to support the load. Meet or exceed all OSHA and ASME B30.9 Standards.

Endless-Type 5—Versatile slings economically priced for use in all three types of hitches: vertical, choker, and basket. Spread sling legs for improved load balance. Sling rotates to minimize wear.

Flat Eye and Eye–Type 3—Popular slings for use in all three types of hitches: vertical, basket, and choker. Easier to remove from beneath the load than sling Types 1, 2, and 4.

Twisted Eye and Eye–Type 4—Similar to Type 3 except eyes are turned 90° and nest easily on the crane hook.

Universal Link-Type U—Helps extend sling life by protecting webbing from abrasion on rough crane hooks. Features Unilink fitting with Web-Trap on each end for use in three hitch types. Unilinks allow choking from either end to help vary wear points.

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
Endless - Type 5						
Single-Ply						
1 in	2 ft	3,200 lb	2,500 lb	6,400 lb	**38U637**	**38T668**
	4 ft				**38U640**	**4ZV42**
	5 ft				**38U641**	**38T670**
	6 ft				**38U642**	**1A595**
	8 ft				**38U644**	**4ZV43**
	9 ft				**38U645**	**38T672**
	10 ft				**38U627**	**9U386**
	12 ft				**38U629**	**8WPP4**
	13 ft				**38U630**	**38T661**
	14 ft				**38U631**	**38T662**
	16 ft				**38U633**	**38T664**
	17 ft				**38U634**	**38T665**
	18 ft				**38U635**	**38T666**
	20 ft				**38U638**	**38T669**
2 in	2 ft	6,400 lb	5,000 lb	12,800 lb	**38U656**	**38T681**
	4 ft				**38U659**	**4ZV46**
	5 ft				**38U660**	**38T684**
	6 ft				**38U661**	**1A596**
	8 ft				**38U663**	**38T686**
	9 ft				**38U664**	**38T687**
	10 ft				**38U646**	**4ZV44**
	12 ft				**38U648**	**4ZV45**
	13 ft				**38U649**	**38T674**
	14 ft				**38U650**	**38T675**
	16 ft				**38U652**	**38T677**
	17 ft				**38U653**	**38T678**
	18 ft				**38U654**	**38T679**
	20 ft				**38U657**	**38T682**
3 in	4 ft	8,800 lb	7,040 lb	17,600 lb	**38U677**	**38T701**
	5 ft				**38U678**	**38T702**
	6 ft				**38U679**	**38T703**
	8 ft				**38U681**	**38T705**
	9 ft				**38U682**	**38T706**
	10 ft				**38U665**	**38T688**
	12 ft				**38U667**	**38T690**
	13 ft				**38U668**	**38T691**
	14 ft				**38U669**	**38T692**
	16 ft				**38U671**	**38T694**
	17 ft				**38U672**	**38T695**
	18 ft				**38U673**	**38T696**
	20 ft				**38U675**	**38T698**

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
4 in	4 ft	11,500 lb	9,200 lb	23,000 lb	**38U695**	**38T719**
	5 ft				**38U696**	**38T720**
	6 ft				**38U697**	**38T721**
	8 ft				**38U699**	**38T723**
	9 ft				**38U701**	**38T724**
	10 ft				**38U683**	**38T707**
	12 ft				**38U685**	**38T709**
	13 ft				**38U686**	**38T710**
	14 ft				**38U687**	**38T711**
	16 ft				**38U689**	**38T713**
	17 ft				**38U690**	**38T714**
	18 ft				**38U691**	**38T715**
	20 ft				**38U693**	**38T717**
6 in	4 ft	16,500 lb	13,200 lb	33,000 lb	**38U714**	**38T737**
	5 ft				**38U715**	**38T738**
	6 ft				**38U716**	**38T739**
	8 ft				**38U718**	**38T741**
	9 ft				**38U719**	**38T742**
	10 ft				**38U702**	**38T725**
	12 ft				**38U704**	**38T727**
	13 ft				**38U705**	**38T728**
	14 ft				**38U706**	**38T729**
	16 ft				**38U708**	**38T731**
	17 ft				**38U709**	**38T732**
	18 ft				**38U710**	**38T733**
	20 ft				**38U712**	**38T735**
Double-Ply						
1 in	2 ft	6,200 lb	4,900 lb	12,400 lb	**38U730**	**38T422**
	5 ft				**38U734**	**38T424**
	6 ft				**38U735**	**38T425**
	8 ft				**38U737**	**38T427**
	9 ft				**38U738**	**38T428**
	10 ft				**38U720**	**38T412**
	12 ft				**38U722**	**38T414**
	13 ft				**38U723**	**38T415**
	14 ft				**38U724**	**38T416**
	16 ft				**38U726**	**38T418**
	17 ft				**38U727**	**38T419**
	18 ft				**38U728**	**38T420**
	20 ft				**38U731**	**38T423**

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Poly Web Slings

LiftAll

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
2 in	2 ft	12,400 lb	9,900 lb	24,800 lb	38U749	38T439
	4 ft				38U752	38T442
	5 ft				38U753	38T443
	6 ft				38U754	38T444
	8 ft				38U756	38T446
	9 ft				38U757	38T447
	10 ft				38U739	38T429
	12 ft				38U741	38T431
	13 ft				38U742	38T432
	14 ft				38U743	38T433
	16 ft				38U745	38T435
	17 ft				38U746	38T436
	18 ft				38U747	38T437
	20 ft				38U750	38T440
3 in	4 ft	16,300 lb	13,000 lb	32,600 lb	38U770	38T460
	5 ft				38U771	38T461
	6 ft				38U772	38T462
	8 ft				38U774	38T464
	9 ft				38U775	38T465
	10 ft				38U758	38T448
	12 ft				38U760	38T450
	13 ft				38U761	38T451
	14 ft				38U762	38T452
	16 ft				38U764	38T454
	17 ft				38U765	38T455
	18 ft				38U766	38T456
	20 ft				38U768	38T458
4 in	4 ft	20,700 lb	16,500 lb	41,400 lb	38U788	38T478
	5 ft				38U789	38T479
	6 ft				38U790	38T480
	8 ft				38U792	38T482
	9 ft				38U793	38T483
	10 ft				38U776	38T466
	12 ft				38U778	38T468
	13 ft				38U779	38T469
	14 ft				38U780	38T470
	16 ft				38U782	38T472
	17 ft				38U783	38T473
	18 ft				38U784	38T474
	20 ft				38U786	38T476
6 in	4 ft	28,600 lb	23,000 lb	57,200 lb	38U807	38T496
	5 ft				38U808	38T497
	6 ft				38U809	38T498
	8 ft				38U811	38T501
	9 ft				38U812	38T502
	10 ft				38U794	38T484
	12 ft				38U796	38T486
	13 ft				38U797	38T487
	14 ft				38U798	38T488
	16 ft				38U801	38T490
	17 ft				38U802	38T491
	18 ft				38U803	38T492
	20 ft				38U805	38T494
Flat Eye and Eye - Type 3						
Single-Ply						
1 in	4 ft	1,600 lb	1,280 lb	3,200 lb	38U268	4ZT98
	6 ft				38U270	4ZT99
	8 ft				38U272	4ZV01
	9 ft				38U273	38T515
	10 ft				38U255	38T503
	12 ft				38U257	38T505
	13 ft				38U258	38T506
	14 ft				38U259	38T507
	16 ft				38U261	38T509
	17 ft				38U262	38T510
	18 ft				38U263	38T511
	20 ft				38U266	38T513
2 in	2 ft	3,200 lb	2,500 lb	6,400 lb	38U304	38T541
	4 ft				38U307	4ZV04
	5 ft				38U308	38T542
	6 ft				38U309	1A597
	8 ft				38U311	1A598
	9 ft				38U312	38T544
	10 ft				38U293	4ZV02
	12 ft				38U295	2RU89
	13 ft				38U296	38T536
	14 ft				38U297	38T537
	16 ft				38U299	38T538
	17 ft				38U301	38T539
	18 ft				38U302	4ZV03
	20 ft				38U305	2RU90
3 in	4 ft	4,800 lb	3,800 lb	9,600 lb	38U344	38T571
	5 ft				38U345	38T572
	6 ft				38U346	1A599
	8 ft				38U348	4ZV08
	9 ft				38U349	38T574
	10 ft				38U332	4ZV05
	12 ft				38U334	4ZV06
	13 ft				38U335	38T565
	14 ft				38U336	38T566
	16 ft				38U338	38T567
	17 ft				38U339	38T568
	18 ft				38U340	4ZV07
	20 ft				38U342	2RU91
4 in	4 ft	6,400 lb	5,000 lb	12,800 lb	38U380	38T602
	5 ft				38U381	38T603
	6 ft				38U382	4ZV10
	8 ft				38U384	1A600
	9 ft				38U385	38T605
	10 ft				38U368	6A259
	12 ft				38U370	8AHE8
	13 ft				38U371	38T594
	14 ft				38U372	38T595
	16 ft				38U374	38T596
	17 ft				38U375	38T597
	18 ft				38U376	38T598
	20 ft				38U378	4ZV09
6 in	4 ft	9,600 lb	7,700 lb	19,200 lb	38U417	38T636
	5 ft				38U418	38T637
	6 ft				38U419	38T638
	8 ft				38U421	38T640
	9 ft				38U422	38T641
	10 ft				38U405	38T624
	12 ft				38U407	38T626
	13 ft				38U408	38T627
	14 ft				38U409	38T628
	16 ft				38U411	38T630
	17 ft				38U412	38T631
	18 ft				38U413	38T632
	20 ft				38U415	38T634
Double-Ply						
1 in	4 ft	3,200 lb	2,500 lb	6,400 lb	38U454	4ZV24
	5 ft				38U455	38T269
	6 ft				38U456	4ZV25
	8 ft				38U458	4ZV26
	9 ft				38U459	38T271
	10 ft				38U441	2RU93
	12 ft				38U443	38T260
	13 ft				38U444	38T261
	14 ft				38U445	38T262
	16 ft				38U447	38T264
	17 ft				38U448	38T265
	18 ft				38U449	38T266
	20 ft				38U452	38T268
2 in	4 ft	6,400 lb	5,000 lb	12,800 lb	38U492	4ZV29
	5 ft				38U493	38T296
	6 ft				38U494	4ZV30
	8 ft				38U496	6A241
	9 ft				38U497	38T298
	10 ft				38U479	6A242
	12 ft				38U481	4ZV27
	13 ft				38U482	38T292
	16 ft				38U485	2RU95
	17 ft				38U486	38T294
	18 ft				38U487	4ZV28
	20 ft				38U490	2RU96
3 in	5 ft	8,800 lb	7,040 lb	17,600 lb	38U531	38T326
	6 ft				38U532	6A243
	8 ft				38U534	6A244
	9 ft				38U535	38T328
	10 ft				38U518	6A245
	12 ft				38U520	4ZV31
	13 ft				38U521	38T320
	14 ft				38U522	38T321
	16 ft				38U524	2RU97
	17 ft				38U525	38T323
	18 ft				38U526	4ZV32
	20 ft				38U528	2RU98
4 in	4 ft	11,500 lb	9,200 lb	23,000 lb	38U566	38T354
	5 ft				38U567	38T355
	6 ft				38U568	4ZV34
	8 ft				38U570	6A246
	9 ft				38U571	38T357
	10 ft				38U554	6A247
	12 ft				38U556	6A248
	13 ft				38U557	38T348
	16 ft				38U560	2RU99
	17 ft				38U561	38T350
	18 ft				38U562	38T351
	20 ft				38U564	4ZV33
6 in	4 ft	16,500 lb	13,200 lb	33,000 lb	38U603	38T388
	5 ft				38U604	38T389
	6 ft				38U605	38T390
	8 ft				38U607	38T392
	9 ft				38U608	38T393
	10 ft				38U590	38T376
	12 ft				38U592	38T378
	13 ft				38U593	38T379
	14 ft				38U594	38T380
	16 ft				38U596	38T382
	17 ft				38U597	38T383
	18 ft				38U598	38T384
	20 ft				38U601	38T386
Twisted Eye and Eye - Type 4						
Single-Ply						
1 in	2 ft	1,600 lb	1,280 lb	3,200 lb	38U284	38T526
	4 ft				38U287	38T529
	5 ft				38U288	38T530
	6 ft				38U289	38T531
	8 ft				38U291	38T533
	9 ft				38U292	38T534
	10 ft				38U274	38T516
	12 ft				38U276	38T518
	13 ft				38U277	38T519
	14 ft				38U278	38T520
	16 ft				38U280	38T522
	17 ft				38U281	38T523
	18 ft				38U282	38T524
	20 ft				38U285	38T527

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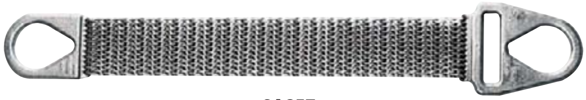
Poly Web Slings

LiftAll

Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
2 in	2 ft	3,200 lb	2,500 lb	6,400 lb	38U323	38T555
	4 ft				38U326	38T558
	5 ft				38U327	38T559
	6 ft				38U328	38T560
	8 ft				38U330	38T562
	9 ft				38U331	38T563
	10 ft				38U313	38T545
	12 ft				38U315	38T547
	13 ft				38U316	38T548
	14 ft				38U317	38T549
	16 ft				38U319	38T551
	17 ft				38U320	38T552
	18 ft				38U321	38T553
	20 ft				38U324	38T556
3 in	4 ft	4,800 lb	3,800 lb	9,600 lb	38U362	38T587
	5 ft				38U363	38T588
	6 ft				38U364	38T589
	8 ft				38U366	38T591
	9 ft				38U367	38T592
	10 ft				38U350	38T575
	12 ft				38U352	38T577
	13 ft				38U353	38T578
	14 ft				38U354	38T579
	16 ft				38U356	38T581
	17 ft				38U357	38T582
	18 ft				38U358	38T583
	20 ft				38U360	38T585
4 in	4 ft	6,400 lb	5,000 lb	12,800 lb	38U398	38T618
	5 ft				38U399	38T619
	6 ft				38U401	38T620
	8 ft				38U403	38T622
	9 ft				38U404	38T623
	10 ft				38U386	38T606
	12 ft				38U388	38T608
	13 ft				38U389	38T609
	14 ft				38U390	38T610
	16 ft				38U392	38T612
	17 ft				38U393	38T613
	18 ft				38U394	38T614
	20 ft				38U396	38T616
6 in	4 ft	9,600 lb	7,700 lb	19,200 lb	38U435	38T654
	5 ft				38U436	38T655
	6 ft				38U437	38T656
	8 ft				38U439	38T658
	9 ft				38U440	38T659
	10 ft				38U423	38T642
	12 ft				38U425	38T644
	13 ft				38U426	38T645
	14 ft				38U427	38T646
	16 ft				38U429	38T648
	17 ft				38U430	38T649
	18 ft				38U431	38T650
	20 ft				38U433	38T652
Double-Ply						
1 in	2 ft	3,200 lb	2,500 lb	6,400 lb	38U470	38T282
	4 ft				38U473	38T285
	5 ft				38U474	38T286
	6 ft				38U475	38T287
	8 ft				38U477	38T289
	9 ft				38U478	38T290
	10 ft				38U460	38T272
	12 ft				38U462	38T274
	13 ft				38U463	38T275
	14 ft				38U464	38T276
	16 ft				38U466	38T278
	17 ft				38U467	38T279
	18 ft				38U468	38T280
	20 ft				38U471	38T283
2 in	2 ft	6,400 lb	5,000 lb	12,800 lb	38U509	38T310
	4 ft				38U512	38T313
	5 ft				38U513	38T314
	6 ft				38U514	38T315
	8 ft				38U516	38T317
	9 ft				38U517	38T318
	10 ft				38U498	38T299
	12 ft				38U501	38T302
	13 ft				38U502	38T303
	14 ft				38U503	38T304
	16 ft				38U505	38T306
	17 ft				38U506	38T307
	18 ft				38U507	38T308
	20 ft				38U510	38T311
3 in	4 ft	8,800 lb	7,040 lb	17,600 lb	38U548	38T341
	5 ft				38U549	38T342
	6 ft				38U550	38T343
	8 ft				38U552	38T345
	9 ft				38U553	38T346
	10 ft				38U536	38T329
	12 ft				38U538	38T331
	13 ft				38U539	38T332
	14 ft				38U540	38T333
	16 ft				38U542	38T335
	17 ft				38U543	38T336
	18 ft				38U544	38T337
	20 ft				38U546	38T339

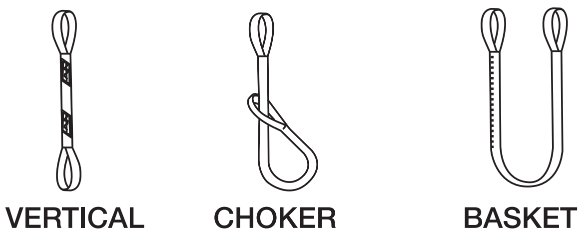
Width	Length	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	Polyester Item No.	Tuff-Edge Polyester Item No.
4 in	4 ft	11,500 lb	9,200 lb	23,000 lb	38U584	38T370
	5 ft				38U585	38T371
	6 ft				38U586	38T372
	8 ft				38U588	38T374
	9 ft				38U589	38T375
	10 ft				38U572	38T358
	12 ft				38U574	38T360
	13 ft				38U575	38T361
	14 ft				38U576	38T362
	16 ft				38U578	38T364
	17 ft				38U579	38T365
	18 ft				38U580	38T366
	20 ft				38U582	38T368
6 in	4 ft	16,500 lb	13,200 lb	33,000 lb	38U621	38T406
	5 ft				38U622	38T407
	6 ft				38U623	38T408
	8 ft				38U625	38T410
	9 ft				38U626	38T411
	10 ft				38U609	38T394
	13 ft				38U612	38T396
	14 ft				38U613	38T397
	16 ft				38U615	38T399
	17 ft				38U616	38T401
	18 ft				38U617	38T402
	20 ft				38U619	38T404
Universal Link - Type U						
Single-Ply						
2 in	4 ft	3,200 lb	2,500 lb	6,400 lb	38R944	38R730
	6 ft				38R946	6A251
	8 ft				38R948	38R732
	9 ft				38R949	38R733
	10 ft				38R932	38R718
	12 ft				38R934	38R720
	13 ft				38R935	38R721
	14 ft				38R936	38R722
	16 ft				38R938	38R724
	17 ft				38R939	38R725
	18 ft				38R940	38R726
	20 ft				—	38R728
3 in	4 ft	4,800 lb	3,800 lb	9,600 lb	38R962	38R746
	5 ft				38R963	38R747
	6 ft				38R964	38R748
	8 ft				38R966	38R750
	9 ft				38R967	38R751
	10 ft				38R950	38R734
	12 ft				38R952	38R736
	13 ft				38R953	38R737
	14 ft				38R954	38R738
	16 ft				38R956	38R740
	17 ft				38R957	38R741
	18 ft				38R958	38R742
	20 ft				38R960	38R744
4 in	4 ft	6,400 lb	5,000 lb	12,800 lb	38R980	38R764
	5 ft				38R981	38R765
	6 ft				38R982	6A252
	8 ft				38R984	6A253
	9 ft				38R985	38R767
	10 ft				38R968	38R752
	12 ft				38R970	38R754
	13 ft				38R971	38R755
	14 ft				38R972	38R756
	16 ft				38R974	38R758
	17 ft				38R975	38R759
	18 ft				38R976	38R760
	20 ft				38R978	38R762
Double-Ply						
2 in	4 ft	6,400 lb	5,000 lb	12,800 lb	38R998	38R780
	5 ft				38R999	38R781
	6 ft				38T001	38R782
	8 ft				38T003	38R784
	9 ft				38T004	38R785
	10 ft				38R986	38R768
	12 ft				38R988	38R770
	13 ft				38R989	38R771
	14 ft				38R990	38R772
	16 ft				38R992	38R774
	17 ft				38R993	38R775
	18 ft				38R994	38R776
	20 ft				38R996	38R778
3 in	4 ft	8,800 lb	7,040 lb	17,600 lb	38T017	38R798
	5 ft				38T018	38R799
	6 ft				38T019	38R801
	8 ft				38T021	38R803
	9 ft				38T022	38R804
	10 ft				38T005	38R786
	12 ft				38T007	38R788
	13 ft				38T008	38R789
	14 ft				38T009	38R790
	16 ft				38T011	38R792
	17 ft				38T012	38R793
	18 ft				38T013	38R794
	20 ft				38T015	38R796
4 in	4 ft	11,500 lb	9,200 lb	23,000 lb	38T035	38R817
	5 ft				38T036	38R818
	6 ft				38T037	38R819
	8 ft				38T039	38R821
	9 ft				38T040	38R822
	10 ft				38T023	38R805
	12 ft				38T025	38R807
	13 ft				38T026	38R808
	14 ft				38T027	38R809
	16 ft				38T029	38R811
	17 ft				38T030	38R812
	18 ft				38T031	38R813
	20 ft				38T033	38R815



6A257

38X511

THREE TYPES OF USES

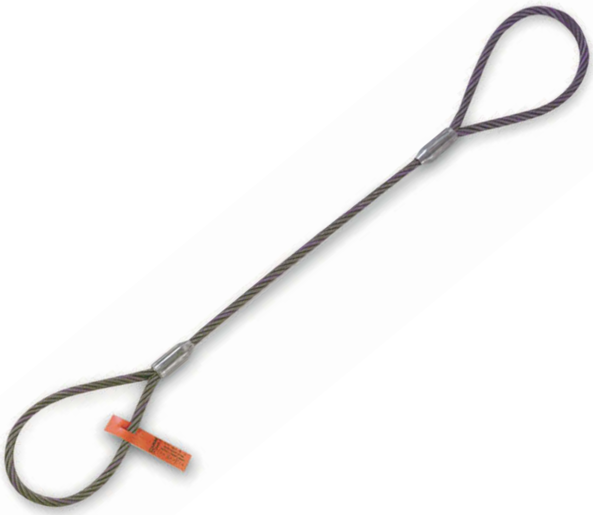


Wire Mesh Slings

- Galvanized high-tensile steel mesh
- Use in basket or choker hitch
- Terminal thickness ½"

Use Roughneck 10-ga. wire mesh slings in metalworking or other industries where loads are abrasive, hot, or tend to cut web slings. Withstand temperatures to 550°F. Plated fittings fit most crane hooks.

Width	Length	Terminal Dia.	Choker Hitch Cap.	Basket Hitch Capacity	TRIANGLE AND CHOKER - TYPE 1 Item No.	TRIANGLE AND TRIANGLE - TYPE 2 Item No.
2 in	4 ft	2 in	2,300 lb	4,600 lb	**38X501**	**38X511**
	6 ft	2 in	2,300 lb	4,600 lb	**38X502**	**38X512**
	8 ft	2 in	2,300 lb	4,600 lb	**38X503**	**38X513**
	10 ft	2 in	2,300 lb	4,600 lb	**38X493**	**38X504**
3 in	4 ft	2 ¼ in	3,500 lb	7,000 lb	**38X521**	**38X531**
	6 ft	2 ¼ in	3,500 lb	7,000 lb	**38X522**	**38X532**
	8 ft	2 ¼ in	3,500 lb	7,000 lb	**38X523**	**38X533**
	10 ft	2 ¼ in	3,500 lb	7,000 lb	**38X514**	**38X524**
4 in	4 ft	3 in	4,800 lb	9,600 lb	**38X541**	**38X549**
	6 ft	3 in	4,800 lb	9,600 lb	**6A257**	**38X550**
	8 ft	3 in	4,800 lb	9,600 lb	**6A258**	**38X551**
	10 ft	3 in	4,800 lb	9,600 lb	**38X534**	**38X542**
6 in	4 ft	3 ½ in	7,200 lb	14,400 lb	**38X559**	**38X569**
	6 ft	3 ½ in	7,200 lb	14,400 lb	**38X560**	**38X570**
	8 ft	3 ½ in	7,200 lb	14,400 lb	**38X561**	**38X571**
	10 ft	3 ½ in	7,200 lb	14,400 lb	**38X552**	**38X562**
8 in	4 ft	4 ½ in	9,600 lb	19,200 lb	**38X578**	**38X588**
	6 ft	4 ½ in	9,600 lb	19,200 lb	**38X579**	**38X589**
	8 ft	4 ½ in	9,600 lb	19,200 lb	**38X580**	**38X590**
	10 ft	4 ½ in	9,600 lb	19,200 lb	**38X572**	**38X581**

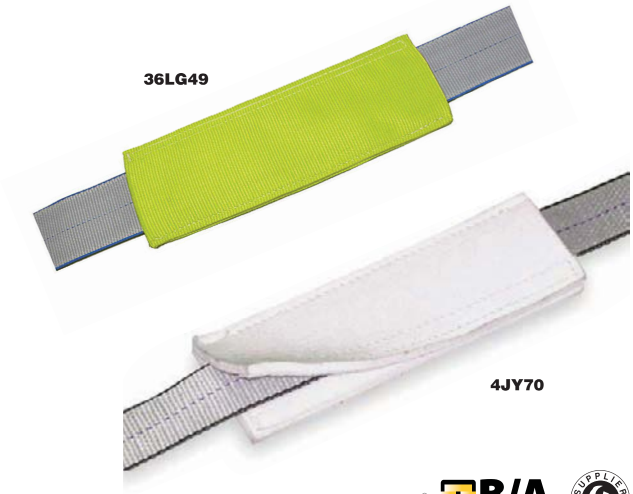


Wire Rope Slings

Eye and Eye slings constructed of 6 x 19 IWRC (Independent Wire Rope Core) class wire rope. Operating temperature rating: -60° to 400°F.

Rope Dia.	L	Vertical Hitch Cap.	Choker Hitch Cap.	Basket Hitch Cap.	DAYTON Item No.	LIFT-ALL Item No.
¼ in	2 ft.	1,300 lb	960 lb	2,600 lb	**1DNG7**	**2RU71**
¼ in	3 ft.	1,300 lb	960 lb	2,600 lb	**1DNG8**	**2RU72**
¼ in	4 ft.	1,300 lb	960 lb	2,600 lb	**1DND9**	**1A591**
⅜ in	2 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNG9**	**2RU73**
⅜ in	3 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNH2**	**2RU75**
⅜ in	4 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNF6**	**4ZT78**
⅜ in	6 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNE1**	**1A592**
⅜ in	8 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNF7**	**4ZT79**
⅜ in	10 ft.	2,800 lb	2,200 lb	5,800 lb	**1DNF5**	**4ZT77**
½ in	4 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNE8**	**4ZT69**
½ in	5 ft.	5,000 lb	3,800 lb	10,200 lb	—	**38Z444** *
½ in	6 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNE2**	**1A593**
½ in	8 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNE3**	**1A594**
½ in	10 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNE6**	**4ZT67**
½ in	11 ft.	5,000 lb	3,800 lb	10,200 lb	—	**38Z431** *
½ in	12 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNE7**	**4ZT68**
½ in	20 ft.	5,000 lb	3,800 lb	10,200 lb	**1DNH1**	**2RU74**
⅝ in	4 ft.	7,800 lb	5,800 lb	15,600 lb	**1DNG1**	**4ZT82**
⅝ in	6 ft.	7,800 lb	5,800 lb	15,600 lb	**1DNG2**	**4ZT83**
⅝ in	8 ft.	7,800 lb	5,800 lb	15,600 lb	**1DNG3**	**4ZT84**
⅝ in	10 ft.	7,800 lb	5,800 lb	15,600 lb	**1DNF8**	**4ZT80**
⅝ in	10 ft.	7,800 lb	5,800 lb	15,600 lb	—	**38Z796** *
⅝ in	12 ft.	7,800 lb	5,800 lb	15,600 lb	**1DNF9**	**4ZT81**
⅝ in	20 ft.	7,800 lb	5,800 lb	15,600 lb	—	**2RU76**
¾ in	4 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNF2**	**4ZT74**
¾ in	6 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNF3**	**4ZT75**
¾ in	8 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNF4**	**4ZT76**
¾ in	10 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNE9**	**4ZT72**
¾ in	10 ft.	11,200 lb	8,200 lb	22,000 lb	—	**38Z651** *
¾ in	12 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNF1**	**4ZT73**
¾ in	20 ft.	11,200 lb	8,200 lb	22,000 lb	**1DNH4**	**2RU77**
1 in	8 ft.	19,600 lb	14,400 lb	40,000 lb	—	**38Z593** *
1 in	10 ft.	19,600 lb	14,400 lb	40,000 lb	**1DNE4**	**4ZT65**
1 in	10 ft.	19,600 lb	14,400 lb	40,000 lb	—	**38Z577** *
1 in	12 ft.	19,600 lb	14,400 lb	40,000 lb	**1DNE5**	**4ZT66**
1 in	20 ft.	19,600 lb	14,400 lb	40,000 lb	**1DNH5**	**2RU78**
1 in	20 ft.	19,600 lb	14,400 lb	40,000 lb	—	**38Z587** *

** Made using imported rope.*



Wear Pads

Help protect against property damage and personal injury. Attach easily with hook-and-loop fastener closures and move to other slings, as needed. Sewn construction. Color coded by pad thickness/material construction.

Thickness	For Sling Width	L	Material	Color	Brand	Item No.
3/16 in	2 in	12 in	Pukka	Yellow	Lift-All	**4JY68**
	4 in	12 in	Pukka	Yellow	Lift-All	**4JY69**
	12 in	24 in	Polyester	Yellow	B/A Products Co.	**12M171**
⅜ in	1 in	1 ft	Nylon	Yellow	Lift-All	**36LG49**
	2 in	1 ft	Nylon	Yellow	Lift-All	**36LG51**
5/16 in	2 in	12 in	Pukka	White	Lift-All	**4JY70**
	4 in	12 in	Pukka	White	Lift-All	**4JY71**

Winch Selection Guide

Winch Rating—Pulling capacity or the "rated max. load" for a winch is determined by the max. load a winch can pull with only the first layer of rope on the drum, an industry standard. Full capacity is retained on the first two layers. This rating does not include any friction factors, which will vary according to the specific applications.

Pulling vs. Lifting—Unless specifically indicated, the winches featured are designed for pulling only. Winches may not have all of the features necessary for every lifting application. Winches rated for lifting are marked as such. Winches are not designed to meet hoisting applications. Refer to all ANSI/ASME requirements for specific applications. All of the winches featured are not to be used for lifting, supporting, or transporting people or loads over areas where people could be present.

Power—Most Dayton electric and hydraulic winches have power "in" and "out". Some also have a clutch and/or freewheel feature.

Duty Cycle—Unless specified otherwise, most electric DC and AC powered winches cannot be operated continuously. To do this will overheat and damage the motor. The typical normal duty cycle is 1 to 3 min. ON, followed by a 20-min. cool-down period. For more frequent operation needs, refer to long cycle or longer duty rated electric units, and continuous duty rated hydraulic winches.

ROLLING WEIGHT

Rated Line Pull (RLP)*	Grade 10%	20%	40%	60%	80%	100%
1000 lb.	5025	3401	2155	1664	1422	1285
1500 lb.	7538	5102	3233	2496	2134	1928
2000 lb.	10,050	6803	4308	2816	2407	2175
2500 lb.	12,563	8503	5388	4160	3556	3213
3000 lb.	15,075	10,251	6428	4991	4268	3854
3500 lb.	17,588	11,905	7543	5824	4979	4499
4000 lb.	20,100	13,668	8643	6655	5690	5138
4500 lb.	22,613	15,306	9698	7488	6401	5784
5000 lb.	25,126	17,009	10,776	8320	7112	6427
6000 lb.	30,151	20,408	12,931	9983	8535	7712
9000 lb.	45,226	30,612	19,397	14,975	12,802	11,568

* Most winch ratings are based on the first layer of wire rope on the drum. You could experience a loss of up to 13% pulling capacity per layer of wire rope (see example below)

Rolling Weight—For safe, sure loading, find the column in the table that matches your percentage of slope or grade. Determine the slope by dividing the amount of your rise by ramp length. Match the slope with the nearest weight of what you may be pulling, always round up, and locate the corresponding winch Rated Line Pull (RLP)*. This guide includes 10% rolling friction. Some applications may require larger capacity winches than indicated. To convert lb. to kg. multiply by 0.4536.

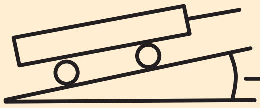
- **A 10% grade is a rise of 1 ft. in 10 ft.**
- **Winches are not intended as a load securing device**
- **Secure load with appropriate tiedowns**

ROLLING LOAD CAPACITY

Maximum Pull Capacities For Rolling Type Loads at Various Angles of Inclines

Percent Incline	Multiply by:	Percent Incline	Multiply by:
Level Surface	10	30 (17°)	2.61
5 (3°)	6.67	50 (26°)	1.86
10 (6°)	5.02	70 (35°)	1.53
20 (11°)	3.4	100 (45°)	1.29

To calculate the rolling load capacity of a winch (the amount of load that can be pulled up an incline), multiply the rated capacity, single or double line, by the factor shown in the chart at the left. Multiplication factor shown includes a 10% rolling friction factor; actual friction factors may vary.



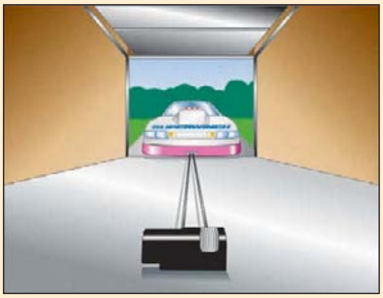
Example of the effect of each layer of cable drum wind on Rated Line Pull (RLP) and rolling loads for a 5000-lb. capacity winch. RLP-The weight the winch can pull perpendicular to the ground with a single line on the first layer of wire rope on drum.

5000 lb. Capacity Winch	RLP	10%	20%	40%	60%	80%	100%
1st layer	5000 lb.	25,126	17,007	10,776	8320	7112	6427
2nd layer	4231 lb.	21,260	14,390	9118	7040	6018	5438
3rd layer	3667 lb.	18,426	12,471	7902	6101	5216	4713
4th layer	3236 lb.	16,258	11,004	6972	5383	4602	4159
5th layer	2894 lb.	14,547	9846	6239	4817	4118	3721

When to Consider a Pulley Block—If you need to offset the winch but retain a straight shot, a pulley block lets you, with a hook for mounting and a pulley for the wire rope. A pulley block also adds to the winch's pulling capacity; simply attach the pulley block's hook directly to the load and the winch's hook to a sturdy mount nearby.

Electrical Performance—To maintain electrical performance from a battery to the winch, it is recommended dropping three wire sizes for every doubling of the length of the standard wire harness.

Example: No. 6 to No. 3 or 2 ga.



FEATURE EXPLANATION FOR CHARTS

1. Clutch Release—Ability to control release of a load with a clutch instead of a winch motor.

2. Freewheel—Ability to pull cable freely from the winch drum by hand under no load conditions.

3. Pulley Block—For double line winch operation and pull redirection. Doubles pulling capacity of winch, but results in lower speed, lower amp draw, and longer run time.

4. Mechanical Brake—Friction within the winch gears or separate friction brake device which automatically holds the load in position when the power switch is released.

5. Dynamic Brake—Electromechanical stopping and holding of a motor that holds a load only when there is power connected to the winch.

TYPES OF GEARING

Planetary Gearing—Has a coaxial shaft capable of large reductions in a small space. Capable of handling high bearing loads.

Worm Gearing—Has right-angle shafting, requires only two gears, and is self locking. Generally provides high ratios.

Spur Gearing—A simple gear design using two or more parallel shafts with gears operating in the same plane. Produces less friction than worm or planetary gearing for greater efficiency. Requires a braking system.

Find more information on winch selection on page 1080.

Medium-Duty

Premium Truck

Heavy-Duty Truck

Heavy-Duty Truck

12/24VDC Electric Winches

Versatile winches for a variety of pulling tasks.

Utility—29JU84 is ideal for use on trailers or hitch mounts. Easy-to-use clutch lever and corded remote control. Use 29JU85 for trailers or the jobsite. Includes durable steel rope, roller fairlead, and remote control.

Medium-Duty Truck—Cone brake holds the full-rated load for trucks and SUVs. Features low-profile design with separate control box. Chip-resistant, powder-coated finish.

Premium Truck—Built to last. Offers durability, style, and performance for trucks, Jeeps, and SUVs. Premium components. Full IP68 waterproofing. Rated to 408 hr. in rigorous salt-spray tests. Large dia. drum for durable rope attachment and long rope life. Convertible control pack for upright or low-profile mounting.

Heavy-Duty Truck—Handles the heaviest winch loads. Features cone brake and chip-resistant, powder-coated finish to resist corrosion. 3EXT2 and 16Y217 include remote-mount control box. 3EXT3 has thermometric indicator for feedback via LED on remote control.

Powersport Winches—All-metal construction with advanced digital controls, built-in load limiter, and clutch design. IP68 waterproof sealing. Modular controls for expandability. Standard-duty permanent magnet motor on 492P72 to 492P77. Use on ATVs and 2-person side by sides. 492P78 to 492P84 feature Motactor (motor + digital contactor) which simplifies winch installation and increases performance. Ideal for ATVs and 4-person side by sides.

Pulling Capacity *	1st Layer Line Speed	No Load Line Speed	Voltage Rating	Full Load Amps	Rope Material	Included Rope Dia.	Included Rope Length	Gear Type	Clutch Release	Mechanical Brake	Winch Dim. L	Winch Dim. W	Winch Dim. H	Item No.
Utility														
2,000 lb	4.4 fpm	7 fpm	12V DC	83 A	Wire	3/16 in	35 ft	Compound Coupled Planetary Gear	Yes	No	13 in	4 in	6 in	**29JU84**
4,000 lb	5.5 fpm	20 fpm	12V DC	297 A	Wire	7/32 in	43 ft	3-Stage Planetary	Yes	No	16 in	16 in	7 in	**29JU85**
Medium-Duty Truck														
8,000 lb	8 fpm	42 fpm	12V DC	435 A	Wire	5/16 in	100 ft	3-Stage Planetary	Yes	Yes	18 in	26 in	8 in	**16Y216**
9,000 lb	6.3 fpm	38 fpm	12V DC	460 A	Wire	5/16 in	100 ft	3-Stage Planetary	Yes	Yes	21 4/5 in	6 19/64 in	7 3/5 in	**3EXT1**
Premium Truck														
8,000 lb	6.3 fpm	42 fpm	12V DC	413 A	Wire	5/16 in	100 ft	3-Stage Planetary	Yes	Yes	24 in	7 in	11 in	**29JU92**
	6.3 fpm	42 fpm	12V DC	413 A	Synthetic	3/8 in	100 ft	3-Stage Planetary	Yes	Yes	24 in	7 in	11 in	**29JU93**
10,000 lb	4.7 fpm	33 fpm	12V DC	409 A	Steel	3/8 in	80 ft	3-Stage Planetary	Yes	Yes	24 in	7 in	11 in	**29JU94**
	4.7 fpm	33 fpm	12V DC	409 A	Synthetic	3/8 in	100 ft	3-Stage Planetary	Yes	Yes	24 in	7 in	11 in	**29JU95**
12,000 lb	3.2 fpm	30 fpm	12V DC	438 A	Wire	3/8 in	80 ft	3-Stage Planetary	Yes	Yes	24 in	7 in	11 in	**29JU99**
Heavy-Duty Truck														
12,000 lb	3.8 fpm	30 fpm	12V DC	440 A	Wire	3/8 in	125 ft	3-Stage Planetary	Yes	Yes	24 3/8 in	8 1/2 in	11 in	**3EXT2**
15,000 lb	2.4 fpm	22.2 fpm	12V DC	460 A	Wire	7/16 in	90 ft	3-Stage Planetary	Yes	Yes	28 1/4 in	13 in	10 1/4 in	**16Y217**
16,500 lb	3.2 fpm	23.6 fpm	12V DC	507 A	Wire	7/16 in	90 ft	3-Stage Planetary	Yes	Yes	24 1/5 in	8 1/2 in	9 2/3 in	**3EXT3**
Powersports														
2,500 lb	14.3 fpm	17.5 fpm	12V DC	159 A	Galvanized Steel Cable	3/16 in	50 ft	3-Stage Planetary	Yes	Yes	13 3/16 in	13 3/16 in	4 47/64 in	**492P72**
	14.3 fpm	17.5 fpm	12V DC	159 A	Synthetic	3/16 in	50 ft	3-Stage Planetary	Yes	Yes	13 3/16 in	13 3/16 in	4 47/64 in	**492P73**
3,500 lb	13.4 fpm	15.8 fpm	12V DC	192 A	Galvanized Steel Cable	7/32 in	50 ft	3-Stage Planetary	Yes	Yes	13 23/64 in	13 23/64 in	4 47/64 in	**492P74**
	13.4 fpm	15.8 fpm	12V DC	192 A	Synthetic	3/16 in	50 ft	3-Stage Planetary	Yes	Yes	13 25/64 in	13 23/64 in	4 47/64 in	**492P75**
	17.8 fpm	20 fpm	12V DC	204 A	Galvanized Steel Cable	7/32 in	50 ft	3-Stage Planetary	Yes	Yes	13 5/16 in	13 5/16 in	4 3/4 in	**492P78**
	17.8 fpm	20 fpm	12V DC	204 A	Synthetic	3/16 in	50 ft	3-Stage Planetary	Yes	Yes	13 5/16 in	13 5/16 in	4 3/4 in	**492P79**
4,500 lb	13.8 fpm	16.3 fpm	12V DC	208 A	Galvanized Steel Cable	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	15 in	15 in	4 53/64 in	**492P81**
	13.8 fpm	16.3 fpm	12V DC	208 A	Synthetic	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	15 in	15 in	4 53/64 in	**492P82**
	14 fpm	16.3 fpm	12V DC	198 A	Synthetic	1/4 in	25 ft	3-Stage Planetary	Yes	Yes	13 5/16 in	13 5/16 in	4 3/4 in	**492P80**
	14.1 fpm	16.2 fpm	12V DC	252 A	Galvanized Steel Cable	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	14 31/32 in	14 31/32 in	4 47/64 in	**492P76**
	14.1 fpm	16.2 fpm	12V DC	252 A	Synthetic	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	14 31/32 in	14 31/32 in	4 47/64 in	**492P77**
5,500 lb	13.4 fpm	15.8 fpm	12V DC	254 A	Galvanized Steel Cable	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	15 in	15 in	4 53/64 in	**492P83**
	13.4 fpm	15.8 fpm	12V DC	254 A	Synthetic	1/4 in	50 ft	3-Stage Planetary	Yes	Yes	15 in	15 in	4 53/64 in	**492P84**

**** Pulling capacity is based on first layer of cable on the drum.***

Find more information on winch selection on page 1080.

1VN79

1VN80

THERN

115VAC Worm Gear Winches

Power "In" and "Out" with 15 min. of continuous "On" time at full load. Internal mechanical brake provides positive load control for lifting and lowering. Ball bearings and self-aligning bronze bearings provide smooth operation. Corrosion-resistant, cast-aluminum gearbox and drum. Single-phase motor has power cord and push-button control. Winch cable is available separately.

2ZU40 features high-speed direct drive, and includes 8-ft. pendant cord. **1VN79** may be permanently installed in industrial settings. **1VN80** has handles and large wire rope storage.

1st Layer Load Cap.	Motor HP	Winch Drum Capacity ¼" Cable	Winch Drum Capacity ⁵⁄₁₆" Cable	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
800 lb	1.0 hp	280 ft	190 ft	17 ½ in	21 in	12 ¾ in	**2ZU40**
2,000 lb	1.3 hp	130 ft	90 ft	14 ⅜ in	8 ⅞ in	17 ½ in	**1VN79**
2,000 lb	1.3 hp	280 ft	190 ft	16 ⅝ in	17 ¾ in	14 ½ in	**1VN80**

Layer	No. 2ZU40 Max. Load	No. 2ZU40 Line Speed	No. 1VN79 Max. Load	No. 1VN79 Line Speed	No. 1VN80 Max. Load	No. 1VN80 Line Speed
1	800 lb.	26 fpm	2000	13 fpm	2000 lb.	8 fpm
2	680 lb.	31 fpm	1700	15 fpm	1600 lb.	10 fpm
3	600 lb.	35 fpm	1500	17 fpm	1400 lb.	11 fpm
4	530 lb.	39 fpm	1300	19 fpm	1200 lb.	13 fpm
5	480 lb.	44 fpm	1200	21 fpm	1100 lb.	15 fpm

Planetary Gear
6DLV4

Spur Gear
13R483

WARN StrongArm

AC Electric Winches

Include power In/Out. Pulling capacity given as a reference only and does not include friction factors that will vary according to specific applications.

Note: Not recommended for outdoor use or areas where units could get wet. Should be used with a ground fault circuit interrupter.

PLANETARY GEAR

All-steel, high-speed winches have prewired remote on 6-ft. cable with cable tension plate. Includes mounting bolts.

SPUR GEAR

Dutton-Lainson StrongArm models are rugged, high-performance winches with efficient spur gear systems. Pulling capacities are based on third layer of cable rather than the first for a more realistic estimate of actual use. Precision needle bearings provide low friction and longer life. Final drive gears are heat-treated carbon steel for greater strength. Dynamic motor brake and friction brake for load holding. High-impact cover and stainless steel front plate completely enclose cable drum. Factory installed, 10-ft. remote control cord.

Pulling Capacity *	1st Layer Line Speed	No Load Line Speed	Voltage Rating	Full Load Amps	Rope Material	Included Rope Dia.	Included Rope Length	Gear Type	Clutch Release	Mechanical Brake	Winch Dim. L	Winch Dim. W	Winch Dim. H	Brand	Item No.
Planetary Gear															
1,000 lb	6.6 fpm	10.1 fpm	115V AC	6.5 A	Wire	³⁄₁₆ in	43 ft	Differential Planetary	Yes	No	15 3/7 in	6 in	6 ¼ in	Warn	**6DLV4**
3,000 lb	8.1 fpm	12.2 fpm	115/230V AC	20.9 A	Wire	⁵⁄₁₆ in	100 ft	3-Stage Planetary	Yes	Yes	25 ¾ in	8 ¾ in	8 in	Warn	**6DLV3**
Spur Gear															
1,200 lb	9.0 fpm	35.0 fpm	115V AC	8 A	Wire	³⁄₁₆ in	20 ft	Spur	Yes	Yes	10 ¹³⁄₁₆ in	8 ⅜ in	8 ⅛ in	StrongArm	**13R483**
2,700 lb	2.0 fpm	9.0 fpm	120V AC	7 A	Wire	⁷⁄₃₂ in	50 ft	Spur	Yes	Yes	11 ⅜ in	8 ¹³⁄₁₆ in	8 in	StrongArm	**13R481**
2,700 lb	3.5 fpm	18.0 fpm	115V AC	8 A	Wire	⁷⁄₃₂ in	25 ft	Spur	No	Yes	11 ⅜ in	8 ¹⁄₁₆ in	8 in	StrongArm	**13R482**
2,700 lb	3.5 fpm	18.0 fpm	115V AC	8 A	Wire	⁷⁄₃₂ in	25 ft	Spur	Yes	Yes	11 ⅜ in	8 ¹⁄₁₆ in	8 in	StrongArm	**33W158**

** Pulling capacity is based on first layer of cable on the drum.*

3KEJ9

WARN

Hydraulic Planetary Winches

Perfect for most tow, utility, and trailer applications. Hydraulic motors and hardened steel, 2-stage planetary gear trains deliver efficient and reliable operation, plus fast line speeds. Anticlockwise drum rotation.

1st Layer Line Pull	Min. Required Flow	Max. Pressure	Winch Dim. L	Winch Dim. W	Winch Dim. H	Recommended Wire Rope Dia.	Item No.
9,000 lb	10 gpm	2,200 psi	23 ¹⁷⁄₃₂ in	8 ⁷⁄₁₆ in	9 ⁹⁄₁₆ in	⅜ in	**3KEK2**
12,000 lb	10 gpm	1,950 psi	24 ⁵⁄₃₂ in	8 ⁷⁄₁₆ in	9 ⁹⁄₁₆ in	⁷⁄₁₆ in	**3KEJ9**

For more information on winch selection, see page 1080.

6DLV1

6DLV2

WARN

Portable Electric Lift/Pull Winches

Portable for convenient, one-person operation. 6DLV1 is corded. 6DLV2 is cordless and includes 2 rechargeable NiMH battery packs and rapid charger. Features forward/reverse switch and variable speed.

1st Layer Load Cap.	1st Layer Line Speed	Voltage Rating	Full Load Amps	Winch Dim. L	W	H	Item No.
1,000 lb	8.0 fpm	115V AC	7.7 A	20 in	12 ½ in	13 ¼ in	**6DLV1**
1,000 lb	6.0 fpm	24V DC	24.6 A	16 in	7 ¾ in	10 ¾ in	**6DLV2**

Ingersoll Rand

Air Winches

Winch-mounted throttles, except 3CPD3 and 3CPD6, are remote pendant controls. Both controls provide precise control when lifting, lowering, or pulling a load. Automatic disc brakes, except 3CPD4, 3CPD9, and 3CPE2 are manual band brakes. Enclosed construction keeps out contaminants.

(F)NPT Inlet	Hose Size	Winch Dim. L	W	H	Winch Type	Item No.
For Use With ¼ in-dia. Wire Rope						
½ in	¾ in	19 13/16 in	10 in	15 in	Pulling	**3CPD4**
¾ in	1 in	20 9/32 in	11 9/32 in	10 15/16 in	Lifting, Pulling	**3CPD3**
¾ in	1 in	20 9/32 in	11 9/32 in	10 15/16 in	Lifting, Pulling	**3CPD6**
¾ in	1 in	20 9/32 in	11 9/32 in	13 3/16 in	Lifting, Pulling	**3CPD2**
¾ in	1 in	20 9/32 in	11 9/32 in	13 3/16 in	Lifting, Pulling	**3CPD5**
For Use With ½ in-dia. Wire Rope						
1 ¼ in	1 ½ in	51 3/32 in	22 ⅛ in	27 19/32 in	Pulling	**3CPD9**
1 ¼ in	1 ½ in	51 23/32 in	22 ⅛ in	27 19/32 in	Lifting, Pulling	**3CPE1**
For Use With ¾ in-dia. Wire Rope						
1 ¼ in	1 ½ in	58 ½ in	28 1/32 in	31 ½ in	Pulling	**3CPE2**
1 ¼ in	1 ½ in	58 ½ in	28 1/32 in	31 ½ in	Lifting, Pulling	**3CPE3**
For Use With 7/16 in-dia. Wire Rope						
¾ in	¾ in	25 11/16 in	13 11/16 in	16 11/16 in	Lifting	**403U11**
¾ in	¾ in	25 11/16 in	13 11/16 in	16 11/16 in	Lifting	**403U12**

	GEAR MOTOR			RADIAL PISTON MOTOR		
Air Winch Specifications	**3CPD2 3CPD3**	**3CPD5 3CPD6**	**403U11 403U12**	**3CPD4**	**3CPD9 3CPE1**	**3CPE2 3CPE3**
Air Consumption	141 scfm	141 scfm	170 scfm	50 scfm	350 scfm	700 scfm
Required Pressure	90 psi	90 psi	90 psi	90 psi	90 psi	90 psi
1st Layer Line Pull	878 lb	1724 lb	—	1200 lb	5169 lb	13,167 lb
1st Layer Line Speed	131.0 fpm	66.0 fpm	31.0 fpm	37.0 fpm	79.0 fpm	38.0 fpm
2nd Layer Line Pull	811 lb	1,564 lb	3,300 lb	1,091 lb	4,710 lb	11,910 lb
2nd Layer Line Speed	56 fpm	29 fpm	32 fpm	40 fpm	81 fpm	42 fpm
3rd Layer Line Pull	753 lb	1,432 lb	3,300 lb	1,000 lb	4,326 lb	10,872 lb
3rd Layer Line Speed	61 fpm	31 fpm	32 fpm	43 fpm	89 fpm	46 fpm
4th Layer Line Pull	704 lb	1,320 lb	3,300 lb	923 lb	4,000 lb	10,000 lb
4th Layer Line Speed	65 fpm	34 fpm	32 fpm	48 fpm	96 fpm	50 fpm
5th Layer Line Pull	660 lb	—	3,300 lb	857 lb	3,720 lb	9,258 lb
5th Layer Line Speed	69 fpm	—	32 fpm	51 fpm	103 fpm	54 fpm

Gear Motor
3CPD2

Radial Piston Motor
3CPD9

Gear Motor
403U12

ALLGEAR

Synthetic Winch Line Extensions

Made from 12-strand braided Dyneema, which offers an excellent alternative to wire rope. Designed to be strong, lightweight, and easy to splice. Reinforced eyes help provide added durability.

Size	Working Load Limit	L	Item No.
5/16 in	3,060 lb	100 ft	**20Y666**
⅜ in	4,160 lb	100 ft	**20Y667**
½ in	7,100 lb	100 ft	**20Y668**
⅝ in	11,420 lb	100 ft	**20Y669**

1VN82

1VN86

2ZU39

3DNZ8

Dayton

THERN

Industrial-Duty Hand Winches

- Cable sold separately

Adjustable-length handles to change the force required to lift or pull a load. Use bronze and ball bearings.

Spur Gear with Brake—Automatic Weston-style brake provides positive load control to assist with lifting and lowering.

Worm Gear—Provides load-holding capability when handle is released. Use in applications where fine adjustments may be necessary. 2ZU39 is designed to be operated with 400 rpm max drill drive.

1st Layer Load Capacity	Winch Gear Ratio	Brake Included	Frame Material	Winch Drum Capacity				Overall Dimensions			Brand	Item No.
				1/8" Cable	3/16" Cable	1/4" Cable	5/16" Cable	L	W	H		
Spur Gear												
For Lifting Applications												
1,000 lb	3.83:1	Yes	SS	240 ft	110 ft	59 ft	39 ft	8 ¾ in	8 in	6 ⅞ in	Dayton	**36WF99**
2,000 lb	14.7:1	Yes	Steel	—	110 ft	59 ft	39 ft	10 ¼ in	8 in	7 ¼ in	Dayton	**36WG02**
2,000 lb	14.7:1	Yes	SS	—	110 ft	59 ft	39 ft	10 ¼ in	11 in	7 ¼ in	Dayton	**36WG03**
For Lifting or Pulling Applications												
1,000 lb	3.83:1	Yes	SS	240 ft	110 ft	59 ft	—	8 ¼ in	13 25/32 in	13 ½ in	Thern	**1VN83**
2,000 lb	14.7:1	Yes	Steel	—	110 ft	59 ft	39 ft	10 in	14 ½ in	15 3/16 in	Thern	**1VN85**
10,000 lb	25:1	Yes	Steel	—	—	—	540 ft	20 ⅜ in	25 in	26 in	Thern	**3DNZ3**
1,000 lb	2.85:1	Yes	Steel	130 ft	57 ft	—	—	7 5/16 in	12 ⅛ in	13 ⅛ in	Thern	**1VN82**
2,000 lb	14.7:1	Yes	SS	—	110 ft	59 ft	39 ft	10 in	14 ½ in	15 3/16 in	Thern	**1VN86**
4,000 lb	19.54:1	Yes	Steel	—	—	300 ft	200 ft	15 ¼ in	22 in	24 3/16 in	Thern	**3DNZ7**
For Pulling Applications												
1,000 lb	2.85:1	No	Steel	130 ft	57 ft	—	—	7 5/16 in	9 in	13 9/16 in	Thern	**1VN81**
2,000 lb	14.7:1	No	Steel	—	110 ft	59 ft	39 ft	10 in	12 11/16 in	13 11/32 in	Thern	**1VN84**
2,000 lb	14.7:1, 3.83:1	No	Steel	—	110 ft	59 ft	39 ft	10 ¼ in	8 in	7 ¼ in	Dayton	**36WG01**
4,000 lb	19.54:1	No	Steel	—	—	300 ft	200 ft	15 ¼ in	22 in	24 ½ in	Thern	**3DNZ6**
10,000 lb	25:1	No	Steel	—	—	—	540 ft	20 ⅜ in	25 in	30 in	Thern	**3DNZ2**
10,000 lb	25:1, 5:1	No	Steel	—	—	—	540 ft	20 ⅜ in	18 ⅜ in	18 ¾ in	Dayton	**36WG06**
Worm Gear												
For Lifting or Pulling Applications												
1,000 lb	15:1	Yes	Steel	140 ft	61 ft	—	—	7 ½ in	11 13/16 in	15 19/32 in	Thern	**2VKH6**
2,000 lb	32:1	Yes	Steel	—	—	77 ft	52 ft	13 ½ in	15 9/16 in	17 5/16 in	Thern	**2ZU39**
4,000 lb	26:1	Yes	Steel	—	—	300 ft	200 ft	14 in	21 in	29 3/16 in	Thern	**2VKH8**
For Pulling Applications												
1,000 lb	15:1	No	Steel	140 ft	61 ft	—	—	6 ½ in	10 ¼ in	13 ⅜ in	Thern	**3DNZ4**
2,000 lb	24:1	No	Steel	—	140 ft	77 ft	52 ft	10 in	12 in	13 ⅜ in	Thern	**3DNZ5**
2,000 lb	24:1	No	Steel	—	140 ft	77 ft	52 ft	10 ⅜ in	8 in	7 ⅝ in	Dayton	**36WF96**
4,000 lb	26:1	No	Steel	—	—	300 ft	200 ft	14 in	19 in	22 ⅝ in	Thern	**3DNZ8**

Dayton

Hand Winches

- Cable sold separately

Feature a corrosion-resistant frame, with a rubberized handle grip for added comfort. Floor- and wall-mounted options available.

Spur Gear Without Brake—Designed for applications where it may be necessary to pull the line freely from the winch. Manual ratchet locks the load in position; winch will freewheel with the ratchet released. Not recommended for lifting applications.

Spur Gear With Brake—Designed for applications where freewheeling is not a requirement. Self-activating disc brake system holds load when the handle is released. Include a guard for the brake.

Worm Gear—Provides load-holding capability when handle is released. Use in applications where fine adjustments may be necessary.

36WF99

2Z601

36WF96

1st Layer Load Capacity	Winch Gear Ratio	Brake Included	Frame Material	Winch Drum Capacity				Overall Dimensions			Brand	Mfr. Model	Item No.
				1/8" Cable	3/16" Cable	1/4" Cable	5/16" Cable	L	W	H			
Spur													
For Lifting Applications													
800 lb	4.4:1	Yes	Steel	147 ft	67 ft	—	—	6 11/16 in	6 ¼ in	5 ½ in	Dutton-Lainson	DLB800A	**6W045**
1,000 lb	3.83:1	Yes	SS	240 ft	110 ft	59 ft	39 ft	8 ¾ in	8 in	6 ⅞ in	Dayton	36WF99	**36WF99**
1,200 lb	4:1	Yes	Steel	—	57 ft	30 ft	—	7 13/16 in	7 5/16 in	5 13/16 in	Dutton-Lainson	B1202B	**33UD40**
2,000 lb	14.7:1	Yes	Steel	—	110 ft	59 ft	39 ft	10 ¼ in	8 in	7 ¼ in	Dayton	36WG02	**36WG02**
2,000 lb	14.7:1	Yes	SS	—	110 ft	59 ft	39 ft	10 ¼ in	11 in	7 ¼ in	Dayton	36WG03	**36WG03**
2500 lb	12:1	Yes	—	—	—	76 ft	51 ft	11 27/64 in	9½ in	7 in	Dutton-Lainson	B2500	**43YN50**
3,500 lb	18.7:1	Yes	Steel	—	—	66 ft	44 ft	11 ½ in	9 19/32 in	7 5/16 in	Dutton-Lainson	B3503	**33UD41**
For Pulling Applications													
900 lb	3.2:1	No	Steel	87 ft	40 ft	—	—	5 ⅛ in	5 ¼ in	4 in	Dutton-Lainson	DL900A	**6Z001**
1,100 lb	3.7:1	No	Steel	179 ft	81 ft	43 ft	—	6 ⅞ in	5 ¼ in	5 ⅜ in	Dutton-Lainson	3FKE5	**3FKE5**
1,100 lb	3.7:1	No	Steel	179 ft	81 ft	43 ft	—	7 5/16 in	5 7/64 in	5 ½ in	Dutton-Lainson	DL1100A	**33UD38**
1,200 lb	5.4:1	Yes	Steel	205 ft	93 ft	50 ft	—	7 ½ in	6 ½ in	6 ¾ in	Dutton-Lainson	DLB1205A	**2YA27** *
1,400 lb	4.4:1	No	Steel	—	75 ft	40 ft	—	7 1/16 in	5 ¾ in	5 9/16 in	Dutton-Lainson	DL1402A	**2Z601**
1,400 lb	5:1	No	Steel	—	85 ft	42 ft	—	7 ¼ in	4 ⅞ in	6 3/16 in	Dayton	12U360	**12U360**
1,800 lb	5.1:1, 9.78:1	No	Steel	—	123 ft	59 ft	40 ft	10 in	6 ½ in	6 ½ in	Dayton	12U361	**12U361**
1,800 lb	10.3:1, 5.4:1	No	Steel	—	130 ft	70 ft	47 ft	8 ⅛ in	6 ½ in	6 ⅞ in	Dutton-Lainson	DL1800A	**2Z602**
2,000 lb	14.7:1, 3.83:1	No	Steel	—	110 ft	59 ft	39 ft	10 ¼ in	8 in	7 ¼ in	Dayton	36WG01	**36WG01**
2,500 lb	17.3:1, 5.4:1	No	Steel	—	130 ft	70 ft	47 ft	9 ½ in	6 ½ in	7 ½ in	Dutton-Lainson	DL2500AB	**2Z603**
3,200 lb	17.3:1, 5.4:1	No	Steel	—	—	62 ft	42 ft	9 ½ in	6 ½ in	7 ½ in	Dutton-Lainson	DL3200A	**33UD39**
Worm													
For Lifting Applications													
2,000 lb	40:1	No	Steel	—	—	59 ft	—	7 ½ in	6 in	5 29/32 in	Dutton-Lainson	WG2000HEX	**33UD44**
2,000 lb	40:1	No	Steel	—	—	59 ft	—	7 ½ in	6 in	6 19/32 in	Dutton-Lainson	WG2000	**33UD43**
For Pulling Applications													
2,000 lb	24:1	No	Steel	—	140 ft	77 ft	52 ft	10 ⅜ in	8 in	7 ⅝ in	Dayton	36WF96	**36WF96**

** Includes lever to activate no-load freewheeling.*

For more information on winch selection, see page 1080.

LiftAll Dayton

Winch Cables and Winch Strap

Winch Cables—For use on manual and electric winches. Bright winch cables feature carbon steel wire construction. Winches constructed from Galvanized steel help resist corrosion in demanding applications. Stainless steel winch cables are for use in corrosive environments.

Vehicle Tow Cable—Assembled with hooks at each end for easy use. Corrosion-resistant. Includes hook-and-loop cable straps and forged hooks. Do not use for lifting. 2"W.

Vehicle Recovery Straps—Light polymer/nylon fabric eases storage and application. Cut- and abrasionproof straps are for use in all types of weather. Internal warning markers indicate when replacement is necessary.

Galvanized Steel Winch Cable 1DLJ8

Stainless Steel Winch Cable 35Z854

Bright Carbon Steel 3WUE9

Vehicle Recovery Strap 1DKW8

Size	L	Color	Working Load Limit	Brand	Item No.
Galvanized Steel Winch Cables					
Includes Thimble Eye, Swagged Loop, Safety Latch Hook					
⅛ in	100 ft	Silver	400 lb	Dayton	**1DLH6**
7/32 in	75 ft	Silver	1,120 lb	Dayton	**1DLJ8**
Includes Swagged Loop, Thimble Eye, Safety Latch Hook					
5/32 in	25 ft	Silver	520 lb	Dayton	**1DLJ1**
3/16 in	25 ft	Silver	840 lb	Dayton	**1DLJ3**
	50 ft	Silver	840 lb	Dayton	**1DLJ4**
	75 ft	Silver	840 lb	Dayton	**1DLJ5**
7/32 in	25 ft	Silver	1,120 lb	Dayton	**1DLJ6**
	50 ft	Silver	1,120 lb	Dayton	**1DLJ7**
¼ in	25 ft	Silver	1,400 lb	Dayton	**1DLJ9**
	50 ft	Silver	1,400 lb	Dayton	**1DLK1**
5/16 in	50 ft	Silver	1,960 lb	Dayton	**1DLK2**
	100 ft	Silver	1,960 lb	Dayton	**1DLH9**
⅜ in	90 ft	Silver	2,880 lb	Dayton	**1DLH7**
Includes Ball End					
¼ in	60 ft	Silver	2,333 lb	Dayton	**35Z858**
Stainless Steel Winch Cables					
Includes Safety Latch Hook					
3/16 in	20 ft	Silver	884 lb	Dayton	**35Z854**
	45 ft	Silver	884 lb	Dayton	**35Z861**
¼ in	36 ft	Silver	1,236 lb	Dayton	**35Z859**
	60 ft	Silver	1,236 lb	Dayton	**35Z860**
Steel Winch Cables					
Includes Swivel Latch Hook					
⅜ in	35 ft	Natural	3,760 lb	Lift-All	**3WYY6**
	35 ft	Natural	4,800 lb	Lift-All	**3YYD4**
	50 ft	Natural	3,760 lb	Lift-All	**3WYY9**
	50 ft	Natural	4,800 lb	Lift-All	**3YYF6**
	75 ft	Natural	4,800 lb	Lift-All	**3WUH2**
	100 ft	Natural	3,760 lb	Lift-All	**3WYZ3**
	100 ft	Natural	4,800 lb	Lift-All	**3WZG9**
	150 ft	Natural	3,760 lb	Lift-All	**3WYZ6**
	150 ft	Natural	4,800 lb	Lift-All	**3WUE9**
7/16 in	50 ft	Natural	6,400 lb	Lift-All	**3WUK4**
	75 ft	Natural	6,400 lb	Lift-All	**3WUV1**
	100 ft	Natural	6,400 lb	Lift-All	**3WUN6**
	150 ft	Natural	6,400 lb	Lift-All	**3WUR8**
½ in	75 ft	Natural	8,400 lb	Lift-All	**3WXC3**
	100 ft	Natural	8,400 lb	Lift-All	**3WUX3**
	150 ft	Natural	8,400 lb	Lift-All	**3WUZ5**
Includes Safety Latch Hook					
⅜ in	35 ft	Natural	3,760 lb	Lift-All	**3WYX3**
	35 ft	Natural	4,800 lb	Lift-All	**3YYC1**
	50 ft	Natural	3,760 lb	Lift-All	**3WYX6**
	50 ft	Natural	4,800 lb	Lift-All	**3YYE3**
	75 ft	Natural	4,800 lb	Lift-All	**3WUF8**
	100 ft	Natural	3,760 lb	Lift-All	**3WYX9**
	100 ft	Natural	4,800 lb	Lift-All	**3YYK8**
	150 ft	Natural	3,760 lb	Lift-All	**3WYY3**
	150 ft	Natural	4,800 lb	Lift-All	**3WZH8**

Size	L	Color	Working Load Limit	Brand	Item No.
7/16 in	50 ft	Natural	6,400 lb	Lift-All	**3WUJ1**
	75 ft	Natural	6,400 lb	Lift-All	**3WUT7**
	100 ft	Natural	6,400 lb	Lift-All	**3WUL3**
	150 ft	Natural	6,400 lb	Lift-All	**3WUP5**
½ in	75 ft	Natural	8,400 lb	Lift-All	**3WXA4**
	100 ft	Natural	8,400 lb	Lift-All	**3WUV9**
	150 ft	Natural	8,400 lb	Lift-All	**3WUY2**
⅜ in	35 ft	Natural	4,800 lb	Lift-All	**3YYC5**
	50 ft	Natural	4,800 lb	Lift-All	**3YYE7**
	75 ft	Natural	4,800 lb	Lift-All	**3WUG3**
	100 ft	Natural	4,800 lb	Lift-All	**3WZG1**
	150 ft	Natural	4,800 lb	Lift-All	**3WZJ3**
7/16 in	50 ft	Natural	6,400 lb	Lift-All	**3WUJ5**
	75 ft	Natural	6,400 lb	Lift-All	**3WUU2**
	100 ft	Natural	6,400 lb	Lift-All	**3WUL7**
	150 ft	Natural	6,400 lb	Lift-All	**3WUP9**
½ in	75 ft	Natural	8,400 lb	Lift-All	**3WXA8**
	100 ft	Natural	8,400 lb	Lift-All	**3WUW4**
	150 ft	Natural	8,400 lb	Lift-All	**3WUY6**

Size	L	Working Lifting Limit	Brand	Item No.
Vehicle Tow Cable				
5/16 in	20 ft	1,960 lb	Dayton	**1DLK5**

L	W	Web Tensile Strength	Breaking Strength	Rated Capacity	Brand	Item No.
Vehicle Recovery Straps						
20 ft	2 in	20,000 lb	15,900 lb	5,300 lb	Dayton	**1DKW8**
30 ft	2 in	40,000 lb	32,000 lb	10,700 lb	Dayton	**1DKW9**

Dayton

Winch Line Hooks

Eye Hooks—For use with winch cable. Zinc-plated, forged steel hooks include a safety clip.

Pulley Block with Swivel Hook—For use in double-line operation. Includes safety latch. Compatible with lines up to ¼" dia.

Description	Working Load Limit	Item No.
Eye Hook	1,500 lb	**1DLX4**
Eye Hook	3,000 lb	**1DLX5**
Pulley Block w/Swivel Hook	2,400 lb	**1DLK4**

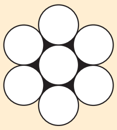
1DLX4

1DLK4

Cable Selection Guide

CONSTRUCTION

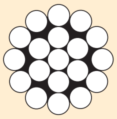
1 x 7 Strand



Attributes—Provides excellent abrasion resistance with low flexibility and low stretch.

Applications—Used as guying wire, tensioning members, and for applications with straight pulling and pushing requirements.

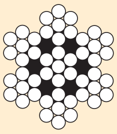
1 x 19 Strand



Attributes—Provides excellent abrasion and compression resistance with limited flexibility.

Applications—Used as guying wire and as tensioning members with pulling and pushing requirements.

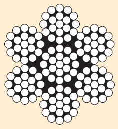
7 x 7 Strand



Attributes—Provides excellent abrasion resistance with good flexibility. Best for strength and flexibility.

Applications—Can be used over small-diameter pulleys and also used as control cable for equipment.

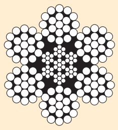
7 x 19 Strand



Attributes—Excellent flexibility, strength, and greatest amount of stretch. Resistant to crushing.

Applications—Can be used over small-diameter pulleys and also used as control cable for equipment.

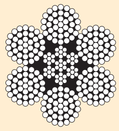
6 x 19 Class IWRC



Attributes—Provides abrasion and crush resistance with excellent flexibility.

Applications—Logging ropes, choker rope, rotary drilling, and cable track lines.

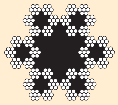
6 x 37 Class IWRC



Attributes—High strength, extremely flexible, and excellent fatigue resistance with super flexibility. Lower abrasion resistance.

Applications—Winch lines, cranes, and towing.

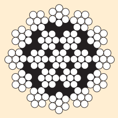
6 x 42 Fiber Core



Attributes—Balanced combination of abrasion and fatigue resistance for machinery operation.

Applications—Winch lines, cranes, and towing.

19 x 7 Strand Core



Attributes—Provides rotation resistance with superior flexibility. Susceptible to crushing and kinking. Extra care must be exercised when using cable.

Applications—Lifting and pulling applications.

MATERIAL TYPES

Galvanized

Galvanized steel provides some corrosion resistance and is an economical alternative to stainless steel.

302/304 Stainless Steel

Good corrosion resistance and more economical than 316 stainless.

Fiber Core

Provides support while remaining flexible. More susceptible to crushing.

Nylon-Jacketed

Provides high flexibility and abrasion resistance. Typically used for drive cables and physical fitness equipment.

Vinyl-Jacketed

General purpose PVC provides high flexibility and superior appearance. Typically used as barriers and lanyards.

Polypropylene-Jacketed

Polypropylene impregnated and coated galvanized steel.

Construction Material	Type	Cable Size	Coated Size
Galvanized	1 x 7 Strand Core	1/32"	—
		3/64"	—
Galvanized	1 x 19 Strand Core	1/16"	—
		3/32"	—
		1/8"	—
		5/32"	—
		1/4"	—
Galvanized	7 x 7 Strand Core	3/16"	—
		1/4"	—
Galvanized	7 x 19 Strand Core	1/4"	—
		5/16"	—
		3/8"	—
304 Stainless	1 x 19 Strand Core	1/4"	—
		1/8"	—
		1/16"	—
		3/8"	—
		3/16"	—
		5/16"	—
304 Stainless	6 x 19 Class IWRC	7/16"	—
		1/2"	—
304 Stainless	6 x 37 Class IWRC	3/16"	—
		1/4"	—
		5/16"	—
		3/8"	—

Construction Material	Type	Cable Size	Coated Size
304 Stainless	6 x 42 Fiber Core	1/8"	—
		3/16"	—
		1/4"	—
		5/16"	—
		3/8"	—
304 Stainless	7 x 7 Strand Core	1/4"	—
304 Stainless	7 x 19 Strand Core	1/16"	—
		1/8"	—
		3/16"	—
		7/32"	—
304 Stainless	19 x 7 Strand Core	1/4"	—
		3/8"	—
		7/16"	—
Nylon-Coated Galvanized Construction Material	7 x 19 Strand Core	3/16"	1/4"
		3/16"	5/16"
		1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
Galvanized Clear Vinyl Jacketed	7 x 19 Strand Core	1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
302/304 Stainless Steel Clear Vinyl Jacketed	7 x 19 Strand Core	3/16"	1/4"
		3/16"	5/16"
		1/4"	5/16"
		5/16"	13/32"
		3/8"	15/32"
Polypropylene-Impregnated & Coated Galvanized	7 x 7 Strand Core	1/4"	—

Cable Spool

Precut Cable Length

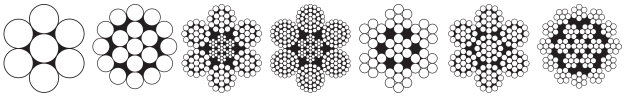
Dayton

Coated and Uncoated Steel Cable

- Precut cable includes permanent thimble eye on one end; safety-fused on the opposite end
- See Grainger.com® for additional steel cable offering

For use with manual or electric winches. Galvanized steel cable with safety orange vinyl coating provides high visibility for hazardous areas.

Warning: Do not exceed working load limit.



1 x 7 | 1 x 19 | 6 x 19 Class IWRC | 6 x 37 Class IWRC | 7 x 7 | 7 x 19 | 19 x 7

Cable Size	Outside Dia.	Working Load Limit	Strand Type	25 FT LENGTH Item No.	50 FT LENGTH Item No.	100 FT LENGTH Item No.	250 FT LENGTH Item No.	500 FT LENGTH Item No.
Nylon Coated								
Galvanized Steel								
3/64 in	1/16 in	54 lb	7 x 7	33RG27	—	—	2VJF1	—
1/16 in	3/32 in	96 lb	7 x 7	—	—	2VJF3	2VJF4	2VJF5
	1/8 in	96 lb	7 x 7	—	—	—	—	2VJF8
3/32 in	1/8 in	184 lb	7 x 7	—	—	—	2VJG1	2VJG2
	3/16 in	184 lb	7 x 7	—	—	—	—	2VJG8
1/8 in	3/16 in	400 lb	7 x 19	—	—	2VJG9	2VJH1	2VJH2
3/16 in	1/4 in	840 lb	7 x 19	—	—	2VJH6	2VJH7	2VJH8
1/4 in	5/16 in	1,400 lb	7 x 19	—	—	—	2VJJ4	2VJJ5
5/16 in	13/32 in	1,960 lb	7 x 19	—	—	—	2VJJ7	—
Polypropylene Coated								
Galvanized Steel								
1/8 in	5/32 in	340 lb	7 x 7	—	—	2VJW8	2VJW9	—
3/16 in	1/4 in	740 lb	7 x 7	—	—	2VJX2	2VJX3	—
1/4 in	5/16 in	1,220 lb	7 x 7	—	2VJX4	2VJX5	2VJX6	—
Polypropylene Coated, Yellow								
Galvanized Steel								
1/8 in	5/32 in	340 lb	7 x 7	—	—	2VJX8	2VJX9	—
Polypropylene Coated, Green								
Galvanized Steel								
1/8 in	5/32 in	340 lb	7 x 7	—	—	2VJY2	—	33RG06
Vinyl Coated, Clear								
302/304 Stainless Steel								
3/64 in	1/16 in	54 lb	7 x 7	33RF74	33RF75	2VJP6	2VJP7	2VJP8
1/16 in	3/32 in	96 lb	7 x 7	33RF56	33RF58	2VJP9	2VJR1	2VJR2
	1/8 in	96 lb	7 x 7	33RF57	33RF59	2VJR3	2VJR4	2VJR5
3/32 in	1/8 in	184 lb	7 x 7	33RF70	33RF72	2VJR6	2VJR7	2VJR8
	3/16 in	184 lb	7 x 7	—	—	2VJR9	2VJT1	2VJT2
1/8 in	3/16 in	352 lb	7 x 19	33RF63	33RF65	2VJT3	2VJT4	2VJT5
	7/32 in	352 lb	7 x 19	—	—	2VJT6	2VJT7	2VJT8
3/16 in	1/4 in	740 lb	7 x 19	2VJT9	2VJU1	2VJU2	33RF67	33RF69
	5/16 in	740 lb	7 x 19	—	—	2VJU5	33RF66	—
1/4 in	5/16 in	1,280 lb	7 x 19	2VJU6	2VJU7	2VJU8	33RF60	33RF61
5/16 in	13/32 in	1,800 lb	7 x 19	2VJU9	—	—	—	—
Galvanized Steel								
3/64 in	1/16 in	54 lb	7 x 7	33RF97	33RF98	33RF96	2VJK3	33RF99
1/16 in	3/32 in	96 lb	7 x 7	—	2VJK4	2VJK5	2VJK6	33RF82
	1/8 in	96 lb	7 x 7	33RF81	—	2VJK8	2VJK9	33RF83
3/32 in	1/8 in	184 lb	7 x 7	—	2VJL1	2VJL2	2VJL3	33RF95
	5/32 in	184 lb	7 x 7	—	—	—	2VJL6	33RF94
1/8 in	3/16 in	340 lb	7 x 7	—	2VJL7	2VJL8	1DLA7	33RF87
3/16 in	1/4 in	840 lb	7 x 19	—	—	—	1DLA9	—
	5/16 in	840 lb	7 x 19	—	—	—	33RF88	33RF89
1/4 in	5/16 in	1,400 lb	7 x 19	—	2VJN7	2VJN8	33RF84	33RF85
5/16 in	13/32 in	1,960 lb	7 x 19	—	—	2VJP2	33RG03	—
3/8 in	15/32 in	2,880 lb	7 x 19	2VJP3	2VJP4	2VJP5	—	—
Vinyl Coated, Safety Orange								
Galvanized Steel								
1/16 in	1/8 in	96 lb	7 x 7	—	2VJV6	2VJV7	2VJV8	33RG44
3/32 in	3/16 in	184 lb	7 x 7	—	—	2VJW1	2VJW2	33RG48
1/8 in	1/4 in	340 lb	7 x 7	—	—	2VJW3	1DLB1	33RG50
3/16 in	1/4 in	740 lb	7 x 7	—	2VJW5	2VJW6	33RG45	33RG46
Clear Vinyl Coated Pre-Cut Lengths								
Galvanized Steel								
3/16 in	1/4 in	840 lb	7 x 19	—	1DLC1	—	—	—
1/4 in	5/16 in	1,400 lb	7 x 19	—	1DLB9	—	—	—
Uncoated								
304 Stainless Steel								
1/32 in	1/32 in	28 lb	7 x 7	—	—	2TAY1	33RG76	33RG77
	1/32 in	30 lb	1 x 19	2TAK5	—	2TAK7	33RG74	33RG75
1/16 in	1/16 in	96 lb	7 x 19	2TAY8	2TAY9	2TAZ1	33RG67	33RG68
	1/16 in	96 lb	7 x 7	33RG69	33RG71	—	33RG70	1DLC3
	1/16 in	100 lb	1 x 19	33RG63	33RG64	2TAL5	2TAL6	2TAL7
	1/16 in	100 lb	1 x 7	—	33RG66	2TAK2	2TAK3	2TAK4
3/32 in	3/32 in	184 lb	7 x 7	—	33RH06	—	33RH05	1DLC4
1/8 in	1/8 in	140 lb	6 x 42 Fiber Core	—	2TAV3	—	—	—
	1/8 in	300 lb	19 x 7	2VJD3	—	2VJD5	33RG91	—
	1/8 in	340 lb	7 x 7	—	—	—	—	1DLC5
	1/8 in	352 lb	7 x 19	—	2TAZ3	2TAZ4	33RG93	33RG94
	1/8 in	420 lb	1 x 7	33RG89	—	—	—	2TAK1
	1/8 in	420 lb	1 x 19	—	—	2TAL2	2TAL3	2TAL4
3/16 in	3/16 in	320 lb	6 x 42 Fiber Core	—	—	2TAV7	—	—
	3/16 in	600 lb	6 x 37 Class IWRC	—	—	2TAT7	—	—
	3/16 in	660 lb	19 x 7	—	2VJD7	2VJD8	33RG97	—
	3/16 in	740 lb	7 x 19	2TAZ5	2TAZ6	—	1DLC6	—
	3/16 in	940 lb	1 x 19	2TAN2	2TAN3	2TAN4	—	—
7/32 in	7/32 in	1,000 lb	7 x 19	—	2TAZ8	2TAZ9	—	—
1/4 in	1/4 in	900 lb	6 x 37 Class IWRC	2TAT8	2TAT9	2TAU1	33RG82	—
	1/4 in	1,152 lb	19 x 7	—	2VJE1	2VJE2	—	—
	1/4 in	1,220 lb	7 x 7	—	2TAY6	2TAY7	33RG87	—
	1/4 in	1,280 lb	7 x 19	33RG84	—	—	1DLC7	—
	1/4 in	1,640 lb	1 x 19	2TAK8	2TAK9	2TAL1	33RG78	33RG79
5/16 in	5/16 in	980 lb	6 x 42 Fiber Core	—	—	2TAW4	—	—
	5/16 in	1,660 lb	6 x 37 Class IWRC	—	2TAU3	2TAU4	—	—
	5/16 in	1,800 lb	7 x 19	—	—	—	33RH22	—
	5/16 in	2,500 lb	1 x 19	2TAN5	—	2TAN7	33RH17	—
3/8 in	3/8 in	1,320 lb	6 x 42 Fiber Core	2TAW5	—	—	—	—
	3/8 in	2,340 lb	6 x 37 Class IWRC	—	2TAU6	2TAU7	33RH11	—
	3/8 in	2,400 lb	7 x 19	—	33RH15	—	—	—
	3/8 in	3,500 lb	1 x 19	2TAL8	—	2TAN1	—	—
7/16 in	7/16 in	3,260 lb	6 x 19 Class IWRC	—	—	2TAT1	—	—
1/2 in	1/2 in	4,560 lb	6 x 19 Class IWRC	2TAT2	2TAT3	2TAT4	33RG72	33RG73
Galvanized Steel								
1/32 in	1/32 in	37 lb	1 x 7	—	—	—	—	2RZX6
3/64 in	3/64 in	75 lb	1 x 7	—	—	—	—	2RZX9
1/16 in	1/16 in	96 lb	7 x 7	—	—	2TAA1	2TAA2	1DLA1
	1/16 in	100 lb	1 x 19	—	—	2RZY1	2RZY2	2RZY3
3/32 in	3/32 in	184 lb	7 x 7	—	—	—	2TAA4	2TAA5
	3/32 in	200 lb	7 x 19	—	—	2TAC8	—	—
	3/32 in	240 lb	1 x 19	—	—	2RZY4	2RZY5	2RZY6
1/8 in	1/8 in	340 lb	7 x 7	—	—	2TAA6	2TAA7	1DLA2
	1/8 in	400 lb	7 x 19	—	33RH48	2TAE2	2TAE3	2TAE4
	1/8 in	420 lb	1 x 19	—	33RH46	2RZY7	2RZY8	2RZY9
5/32 in	5/32 in	520 lb	7 x 7	—	—	—	2TAA9	—
	5/32 in	560 lb	7 x 19	—	33RH71	2TAE5	2TAE6	—
	5/32 in	660 lb	1 x 19	—	—	—	2RZZ2	—
3/16 in	3/16 in	740 lb	7 x 7	—	—	2TAC2	2TAC3	2TAC4
	3/16 in	840 lb	7 x 19	—	33RH52	2TAE8	1DLA3	2TAE9
	3/16 in	940 lb	1 x 19	—	33RH50	2RZZ4	2RZZ5	2RZZ6
1/4 in	1/4 in	1,220 lb	7 x 7	—	—	2TAC5	2TAC6	2TAC7
	1/4 in	1,400 lb	7 x 19	—	33RH42	2TAF1	1DLA4	2TAF2
	1/4 in	1,640 lb	1 x 19	—	—	2RZZ7	2RZZ8	2RZZ9
5/16 in	5/16 in	1,960 lb	7 x 19	—	33RH67	2TAF3	33RH66	2TAF4
3/8 in	3/8 in	2,880 lb	7 x 19	—	33RH64	2TAF5	2TAF6	2TAF7
Uncoated Pre-Cut Lengths								
304 Stainless Steel								
1/8 in	1/8 in	340 lb	7 x 7	—	—	1DLD3	—	—
3/16 in	3/16 in	740 lb	7 x 19	—	—	1DLD4	—	—
1/4 in	1/4 in	1,280 lb	7 x 19	—	—	1DLD5	—	—
5/16 in	5/16 in	1,800 lb	7 x 19	—	—	1DLD6	—	—
Galvanized Steel								
1/8 in	1/8 in	340 lb	7 x 7	—	—	1DLB3	—	—
3/16 in	3/16 in	840 lb	7 x 19	—	—	1DLB4	—	—
1/4 in	1/4 in	1,400 lb	7 x 19	—	—	1DLB5	—	—
5/16 in	5/16 in	1,960 lb	7 x 19	—	—	1DLB6	—	—
3/8 in	3/8 in	2,880 lb	7 x 19	—	—	1DLB7	—	—

2VKH9

Dayton

Wire Rope Clips

- Sizes 1/8" to 7/8" will develop 80% of cable breakage strength
- 1" size will develop 90% of cable breakage strength

Secure end of wire rope when turning back to form a loop. Galvanized finish.

For Wire Rope Dia.	Rope Turn Back	DAYTON MALEABLE IRON Min. No. of Clips	DAYTON MALEABLE IRON Item No.	DAYTON FORGED STEEL Min. No. of Clips	DAYTON FORGED STEEL Item No.	CROSBY® FORGED STEEL Min. No. of Clips	CROSBY® FORGED STEEL Item No.	DAYTON 304 STAINLESS STEEL Min. No. of Clips	DAYTON 304 STAINLESS STEEL Item No.
1/8 in	3 1/4 in	3	**2VKH9**	2	**4DV33**	2	**29WP16**	3	**2VKG6**
3/16 in	3 3/4 in	3	**2VKJ1**	2	**4DV34**	2	**29WP17**	3	**2VKH1**
1/4 in	4 3/4 in	—	—	2	**4DV35**	2	**29WP18**	3	**2VKH3**
5/16 in	5 1/4 in	3	**2VKJ3**	2	**4DV36**	2	**29WP19**	3	**2VKH5**
3/8 in	6 1/2 in	3	**2VKJ4**	2	**4DV37**	2	**29WP20**	3	**2VKH7**
7/16 in	7 in	3	**2VKJ5**	2	**4DV38**	—	—	—	—
7/16 in to 1/2 in	11 1/2 in	—	—	—	—	3	**29WP22**	—	—
1/2 in	11 1/2 in	4	**2VKJ6**	3	**4DV39**	—	—	—	—
9/16 in	12 in	—	—	3	**4DV40**	—	—	—	—
9/16 in to 5/8 in	12 in	—	—	—	—	3	**29WP24**	—	—
5/8 in	12 in	4	**2VKJ8**	3	**4DV41**	—	—	—	—
3/4 in	18 in	5	**2VKJ9**	4	**4DV42**	4	**29WP25**	—	—
7/8 in	20 in	5	**2VKK1**	4	**4DV43**	4	**29WP26**	—	—
1 in	26 in	6	**2VKK2**	5	**4DV44**	5	**29WP27**	—	—
1 1/8 in	34 in	—	—	—	—	6	**29WP28**	—	—
1 1/4 in	44 in	—	—	—	—	7	**29WP29**	—	—
1 3/8 in	44 in	—	—	—	—	7	**29WP30**	—	—
1 1/2 in	54 in	—	—	—	—	8	**29WP31**	—	—

1DKK4

Dayton

Clip and Thimble Sets

Each set includes 1 thimble and 2 U-bolt type wire rope clips, except 2VKK6 which includes 1 thimble and 3 U-bolt-type clips.

For Wire Rope Dia.	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
1/8 in	**1DKK4**	**1DKK9**
3/16 in	**1DKK5**	**1DKL1**
1/4 in	—	**1DKL2**
5/16 in	—	**1DKL3**
3/8 in	**1DKK8**	**1DKL4**
7/16 in	**2VKK3**	—
1/2 in	**2VKK4**	**2VKK6**

4FRY5

RONSTAN

316 Stainless Steel Wire Rope Clip and Thimble Sets

Each set includes 1 thimble and the appropriate number of U-bolt type clips. Made with 316 stainless steel.

For Wire Rope Dia.	Min. No. of Clips	Item No.
5/64 in to 3/32 in	2	**4FRY5**
1/8 in	2	**4FRY6**
5/32 in	2	**4FRY7**
3/16 in	2	**4FRY8**
1/4 in	2	**4FRY9**
5/16 in	3	**4FRZ1**
3/8 in	3	**4FRZ2**
1/2 in	3	**4FRZ3**
5/8 in	3	**4FRZ4**
3/4 in	4	**4FRZ5**

29WP32

Crosby Fist Grip Clips

Double saddle allows for quick installation. Steel construction with galvanized finish. Include heavy hex nuts. Meet FF-C-450 Standards.

For Wire Rope Dia.	Min. No. of Clips	Rope Turn Back	Min. Torque	Item No.
3/16 in to 1/4 in	2	4 in	30 ft-lb	**29WP32**
5/16 in	2	5 in	30 ft-lb	**29WP33**
3/8 in	2	5 1/4 in	45 ft-lb	**29WP34**
7/16 in to 1/2 in	3	11 in	65 ft-lb	**29WP35**
9/16 in to 5/8 in	3	13 1/2 in	130 ft-lb	**29WP36**
3/4 in	3	16 in	225 ft-lb	**29WP37**
7/8 in	4	26 in	225 ft-lb	**29WP38**
1 in	5	37 in	225 ft-lb	**29WP39**
1 1/8 in	5	41 in	360 ft-lb	**29WP40**
1 1/4 in	6	55 in	360 ft-lb	**29WP41**

1DLG1

Dayton

Wire Rope Thimbles

Thimbles extend usable life of cable by protecting against everyday wear. Compatible with sleeves or wire rope clips.

For Wire Rope Dia.	DAYTON ZINC-PLATED Item No.	DAYTON ZINC-PLATED Pkg. Qty.	DAYTON GALVANIZED Item No.	DAYTON GALVANIZED Pkg. Qty.	CROSBY GALVANIZED Item No.	CROSBY GALVANIZED Pkg. Qty.	DAYTON STAINLESS STEEL Item No.	DAYTON STAINLESS STEEL Pkg. Qty.
1/16 in	—	—	—	—	—	—	**1DLG6**	25
1/8 in	**1DLG1**	25	**2VKK7**	25	**48FR63**	1	**1DLG8**	25
3/16 in	**1DLG2**	25	**2VKK8**	25	**48FR64**	1	**1DLG9**	25
1/4 in	**1DLG3**	25	**2VKL1**	25	**48FR68**	1	**1DLH1**	25
5/16 in	**1DLG4**	25	**2VKL2**	25	**48FR69**	1	**1DLH2**	25
3/8 in	**1DLG5**	25	**2VKL3**	25	**48FR66**	1	**1DLH3**	25
7/16 in	—	—	**2VKL4**	25	—	—	—	—
1/2 in	—	—	**2VKL5**	25	—	—	—	—
5/8 in	—	—	—	—	**48FR67**	1	—	—

1DKJ3

Dayton

Sleeve and Thimble Sets

Allow 100% cable strength. Use with cable swaging tools, sold separately.

Galvanized Steel—Include 2 zinc-plated thimbles and 2 aluminum alloy sleeves.

Stainless Steel—Include 2 stainless steel thimbles and 2 tin-plated copper sleeves.

For Wire Rope Dia.	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
1/16 in	—	**1DKJ6**
1/8 in	**1DKJ3**	**1DKJ8**
3/16 in	**1DKJ4**	**1DKJ9**
1/4 in	**1DKJ5**	**1DKK1**
5/16 in	—	**1DKK2**
3/8 in	—	**1DKK3**

Crosby Steel Tapered Sleeves

Standard steel sleeve terminations have an efficiency rating of 96% with IWRC or 93% with FC based on strength of wire rope. These sleeves are used for wire rope constructions: 6 x 19, 6 x 37, RRL, FC, and IWRC.

For Wire Rope Dia.	Steel Item No.
3/8 in	**48FR72**
1/2 in	**48FR73**
5/8 in	**48FR74**
1 1/4 in	**48FR75**

Wire Rope Sleeves

16X825

1DLE3

2VKD3

Generate professional-quality loops with a clean look. When used appropriately and swaged accurately, sleeves allow 100% cable strength. Tin-plated copper sleeves are designed for use with stainless steel cable. Stainless steel oval sleeves provide maximum corrosion resistance.

For Wire Rope Dia.	For Use With	Finish	Brand	WIRE ROPE SLEEVE Item No.	WIRE ROPE SLEEVE Pkg. Qty.	WIRE ROPE STOP SLEEVE Item No.	WIRE ROPE STOP SLEEVE Pkg. Qty.
304 Stainless Steel							
1/32 in	Stainless Steel Cable	Natural	Loos	**16X825**	1	—	—
3/64 in	Stainless Steel Cable	Natural	Loos	**16X826**	1	—	—
1/16 in	Stainless Steel Cable	Natural	Loos	**16X827**	1	—	—
3/32 in	Stainless Steel Cable	Natural	Loos	**16X828**	1	—	—
1/8 in	Stainless Steel Cable	Natural	Loos	**16X829**	1	—	—
5/32 in	Stainless Steel Cable	Natural	Loos	**16X830**	1	—	—
3/16 in	Stainless Steel Cable	Natural	Loos	**16X831**	1	—	—
1/4 in	Stainless Steel Cable	Natural	Loos	**16X833**	1	—	—
5/16 in	Stainless Steel Cable	Natural	Loos	**16X834**	1	—	—
Aluminum Alloy							
1/16 in	1DMU9, 1DMV2	Natural	Dayton	**1DLD7**	25	**2VKC5**	50
3/32 in	1DMU9, 1DMV2	Natural	Dayton	**2VJZ1**	25	**2VKC6**	50
1/8 in	1DMU9, 1DMV1, 1DMV2	Natural	Dayton	**1DLD8**	25	**2VKC7**	50
5/32 in	1DMV1, 1DMV2, 1DMV4	Natural	Dayton	**2VJZ2**	25	**2VKC8**	50
3/16 in	1DMV1, 1DMV2	Natural	Dayton	**1DLD9**	25	**2VKC9**	50
1/4 in	1DMV1, 1DMV4	Natural	Dayton	**1DLE1**	25	**2VKD1**	10
5/16 in	1DMV4	Natural	Dayton	**1DLE2**	25	**2VKD2**	10
3/8 in	1DMV3	Natural	Dayton	**1DLE3**	25	—	—
Copper							
1/32 in	—	Zinc Plated	Dayton	**2VKA2**	25	**2VKE5**	50
1/32 in	—	Natural	Dayton	—	—	**2VKD3**	50
3/64 in	—	Zinc Plated	Dayton	**2VKA3**	25	**2VKE6**	50
3/64 in	—	Natural	Dayton	—	—	**2VKD4**	50
3/64 in	—	Tin Plated	Dayton	**2VJZ8**	25	—	—
1/16 in	1DMU9, 1DMV2	Tin Plated	Dayton	**1DLF2**	25	—	—
1/16 in	1DMU9, 1DMV2	Zinc Plated	Dayton	**2VKA4**	25	**2VKE7**	50
1/16 in	1DMU9, 1DMV2	Natural	Dayton	**1DLE4**	25	**2VKD5**	50
3/32 in	1DMU9, 1DMV2	Zinc Plated	Dayton	**2VKA5**	25	**2VKE8**	50
3/32 in	1DMV2	Tin Plated	Dayton	**1DLF3**	25	—	—
3/32 in	1DMU9, 1DMV2	Natural	Dayton	**1DLE5**	25	**2VKD6**	50
1/8 in	1DMV1, 1DMV2	Zinc Plated	Dayton	**2VKA6**	25	**2VKE9**	50
1/8 in	1DMU9, 1DMV1, 1DMV2	Natural	Dayton	**1DLE6**	25	—	—
1/8 in	1DMU9, 1DMV1, 1DMV2	Tin Plated	Dayton	**1DLF4**	25	—	—
5/32 in	1DMV1, 1DMV2, 1DMV4	Zinc Plated	Dayton	—	—	**2VKF1**	50
3/16 in	1DMV1, 1DMV2	Tin Plated	Dayton	**1DLF5**	25	—	—
3/16 in	1DMV1, 1DMV2	Natural	Dayton	**1DLE7**	25	—	—
7/32 in	—	Natural	Dayton	**2VJZ6**	25	**2VKE1**	10
7/32 in	—	Tin Plated	Dayton	**2VKA1**	25	—	—
1/4 in	1DMV1	Tin Plated	Dayton	**1DLF6**	25	—	—
1/4 in	1DMV1, 1DMV4	Zinc Plated	Dayton	**2VKC1**	25	—	—
1/4 in	1DMV1, 1DMV4	Natural	Dayton	**1DLE8**	25	—	—
5/16 in	1DMV4	Zinc Plated	Dayton	**2VKC2**	25	—	—
5/16 in	1DMV4	Natural	Dayton	—	—	**2VKE3**	10
3/8 in	1DMV3	Tin Plated	Dayton	**1DLF8**	25	—	—
3/8 in	1DMV3	Zinc Plated	Dayton	**2VKC3**	25	—	—
3/8 in	1DMV3	Natural	Dayton	**1DLF1**	25	—	—

For Wire Rope Dia.	For Use With	Brand	WIRE ROPE CYLINDRICAL TERMINAL Item No.	WIRE ROPE CYLINDRICAL TERMINAL Pkg. Qty.
303 SE / 304				
1/8 in	MIL-DTL-83420 Cable	Loos	**16X636**	1

Crosby Terminator Wedge Sockets

29WR30

- Meet ASME B30.26 requirements

Sockets secure the tail of the wire rope to the wedge to eliminate wedge loss and the need for an extra piece of wire rope. Also eliminate potential breaking off of the tail from fatigue. Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.

For Wire Rope Dia.	Item No.
3/8 in	**29WR30**
1/2 in	**29WR31**
5/8 in	**29WR32**
3/4 in	**29WR33**
7/8 in	**29WR34**
1 in	**29WR35**
1 1/8 in	**29WR36**
1 1/4 in	**29WR37**

12R355

12R375

Swaging Tools

- For oval- and stop-sleeve swaging
- Heat-treated steel jaw
- Used for making loops and splicing cable
- Easily provide accurate cutting and crimping

Hand Swaging Tools—Single-compression die, except 12R355 is multicompression. 12R359 and 12R360 are scissor-action type. 12R375 is a hydraulic compression tool; includes interchangeable dies and packaged in a plastic carrying case. Include test gauge.

Hand Swager/Cutter—Designed for use with cable up to 3/16" thick. Hardened steel jaws allow tool to taper as it cuts, leaving evenly cut ends.

Hand Swaging Kits—Kits 12R364 and 12R365 include Hand Swaging Tool 12R355, cable cutter, and an assortment of sleeves, thimbles, and stops. Packaged in a steel tool box. 12R364 has aluminum sleeves and zinc-plated steel thimbles. 12R365 has copper sleeves and stainless steel thimbles. Kit 12R376 includes Hand Swaging Tool 12R375 and 6 sets of dies and gauges. Packaged in a plastic case.

Bench Swaging Tool—For shop location and permanent workstations. Fully adjustable. Multicompression jaws. For copper and aluminum only. Includes test gauge.

For Cable Size (in.)	Handle Length (in.)	Brand	Item No.
Single-Groove Hand Swaging Tool			
3/8 in	26 in	—	**1DMV3**
Multigroove Hand Swaging Tool			
5/32 in, 1/4 in, 5/16 in	25 in	—	**1DMV4**
Hand Swagger/Cutter			
1/16 in, 3/32 in, 1/8 in, 5/32 in, 3/16 in	19 in	—	**1DMV2**
Clamping Bolt Type			
1/16 in, 3/32 in, 1/8 in	—	—	**1DMU9**
1/8 in, 5/32 in, 3/16 in, 1/4 in	—	—	**1DMV1**
Hand Swaging Tools			
1/16 in, 3/32 in, 1/8 in, 5/32 in, 3/16 in	22 1/2 in	Loos	**12R355**
1/16 Aluminum and Copper, 3/32 Stainless Steel	17 in	Loos	**12R357**
1/8 Stainless Steel, 3/32 Aluminum and Copper	17 in	Loos	**12R358**
5/32 in, 3/16 in, 1/8 Aluminum and Copper Sleeves, 7/32 Stop Sleeves and 5/32 Stainless Steel	17 in	Loos	**12R359**
3/16 Aluminum and Copper, 7/32 Stainless Steel	17 in	Loos	**12R360**
1/4 in, 9/32 in, 5/16 in, 1/4 Aluminum and Copper Sleeves, 3/8 Stop Sleeves	25 in	Loos	**12R361**
5/16 Aluminum and Copper	25 in	Loos	**12R362**
1/32 in, 3/64 in, 1/16 Aluminum and Copper	7 in	Loos	**12R363**
1/4 in, 9/32 in, 5/16 in, 3/8 in, 7/16 in, 1/2 in	18 in	Loos	**12R375**
Hand Swaging Kits			
1/16 in, 3/32 in, 1/8 in, 5/32 in, 3/16 in	22 1/2 in	Loos	**12R364**
1/16 in, 3/32 in, 1/8 in, 5/32 in, 3/16 in	22 1/2 in	Loos	**12R365**
1/4 in, 9/32 in, 5/16 in, 3/8 in, 7/16 in, 1/2 in	18 in	Loos	**12R376**
Bench Swaging Tool			
1/16 in, 3/32 in, 1/8 in, 5/32 in, 3/16 in	22 1/2 in	Loos	**12R356**

12R371

12R372

12R373

Cable Cutters

Unique triangular cutting blades eliminate fraying and crushing of cable ends. Blades are constructed of hardened and tempered steel.

For Maximum Diameter Aluminum Electric Cable	Overall Length	Item No.
Plastic Handle		
1/4 in	7 1/2 in	**12R370**
1/4 in	7 1/2 in	**12R371**
Aluminum Handle		
1/4 in	13 in	**12R372**
1/2 in	19 in	**12R373**
3/4 in	23 in	**12R374**

Flat Mount Pulley Block 4JX65

Swivel Eye Pulley Block 4JX80

Sheave 4JX59

Wire Rope Blocks and Sheaves

Forged fittings with zinc finish are weather-resistant and riveted to the all-steel sheaves. Suitable for use with heavy-duty wire rope and aircraft cable in high-load and medium-speed applications. Bronze bearings are self-lubricating.

Warning: Do not exceed recommended work load limit of cable/block.

Attachment Type	Max. Cable Size	Working Load Limit	Sheave Outside Dia.	Sheave Inside Dia.	Eye Hook Inside Dia.	Item No.
Pulley Blocks						
Fixed Eye, Zinc Plated	3/16 in	525 lb	1 1/2 in	—	—	**5RRW2**
	3/16 in	525 lb	1 1/2 in	—	11/32 in	**4JX66**
	3/16 in	600 lb	2 in	1 1/2 in	11/32 in	**4JX70**
	1/4 in	685 lb	2 1/2 in	2 in	11/32 in	**4JX74**
	1/4 in	800 lb	3 in	2 1/2 in	11/32 in	**4JX78**
	5/16 in	1,550 lb	3 1/2 in	—	17/32 in	**4JX82**
Flat Mount, Zinc Plated	3/16 in	525 lb	1 1/2 in	—	7/32 in	**4JX65**
	3/16 in	600 lb	2 in	1/2 in	None	**493R64**
	3/16 in	600 lb	2 in	1 1/2 in	7/32 in	**4JX69**
	1/4 in	685 lb	2 1/2 in	1/2 in	None	**493R68**
	1/4 in	685 lb	2 1/2 in	2 in	7/32 in	**4JX73**
	1/4 in	800 lb	3 in	1/2 in	None	**493R65**
	1/4 in	800 lb	3 in	2 1/2 in	7/32 in	**4JX77**
	5/16 in	1,550 lb	3 1/2 in	3 in	7/32 in	**4JX81**
Swivel Eye, Zinc Plated	3/16 in	525 lb	1 1/2 in	1 in	21/32 in	**4JX64**
	3/16 in	600 lb	2 in	1/2 in	None	**493R63**
	3/16 in	600 lb	2 in	1 1/2 in	21/32 in	**4JX68**
	1/4 in	685 lb	2 1/2 in	—	27/32 in	**4JX72**
	1/4 in	800 lb	3 in	—	27/32 in	**4JX76**
	5/16 in	1,550 lb	3 1/2 in	3/4 in	None	**493R66**
	5/16 in	1,550 lb	3 1/2 in	3 in	1 7/32 in	**4JX80**
Swivel Hook, Zinc Plated	3/16 in	525 lb	1 1/2 in	1 in	11/32 in	**4JX67**
	3/16 in	600 lb	2 in	1 1/2 in	11/32 in	**4JX71**
	1/4 in	685 lb	2 1/2 in	2 in	17/32 in	**4JX75**
	1/4 in	800 lb	3 in	—	—	**5RRX0**
	1/4 in	800 lb	3 in	2 1/2 in	17/32 in	**4JX79**
	5/16 in	1,550 lb	3 1/2 in	3 in	27/32 in	**4JX83**
Sheaves						
Center Bore, Zinc Plated	1/4 in	685 lb	2 1/2 in	1/2 in	None	**493R60**
	1/4 in	800 lb	3 in	1/2 in	None	**493R61**
	5/16 in	1,550 lb	3 1/2 in	3/4 in	None	**493R62**
	5/16 in	1,700 lb	4 in	7/8 in	None	**493R67**
	3/8 in	1,700 lb	4 in	1 in	None	**493R69**
Zinc Plated	3/16 in	525 lb	1 1/2 in	1/2 in	—	**4JX59**
	3/16 in	600 lb	2 in	1/2 in	—	**4JX60**
	1/4 in	685 lb	2 1/2 in	1/2 in	—	**4JX61**
	1/4 in	800 lb	3 in	1/2 in	—	**4JX62**
	5/16 in	1,550 lb	3 1/2 in	3/4 in	—	**4JX63**

4FRX5

4FRV4

4FRX9

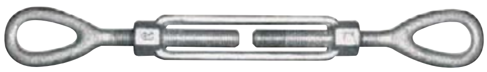
4FRU8

Stainless Steel Fibrous and Wire Rope Sheaves and Pulleys

RONSTAN

Provide a strong, low-friction turning point. High compression-grade acetal ball bearings provide minimal friction across a full working load range. Pulley blocks allow quick rope removal and block detachment. Additional items available on Grainger.com®.

Designed For	Rope Dia.	Working Load Limit	Type	Sheave Outside Dia.	Item No.
Sheave					
Fibrous Rope	1/4 in	—	Acetal, Solid	3/4 in	**4FRW4**
	1/4 in	—	Acetal, Ball Bearing	1 1/8 in	**4FRX5**
	5/16 in	—	Acetal, Solid	1 1/2 in	**4FRW9**
	1/2 in	—	Acetal, Solid	1 1/2 in	**4FRX2**
	9/16 in	—	Acetal, Solid	1 15/16 in	**4FRW7**
Pulley Block					
Fibrous Rope	7/16 in	880 lb	Loop Top	1 9/16 in	**4FRX8**
	7/16 in	880 lb	Swivel Shackle Hd	1 9/16 in	**4FRX9**
	3/8 in	880 lb	Swivel Shackle Hd, Becket	1 9/16 in	**4FRY1**
	1/2 in	1,650 lb	Loop Top	2 in	**4FRY2**
	1/2 in	1,650 lb	Swivel Shackle Hd	2 in	**4FRY3**
	1/2 in	1,650 lb	Swivel Shackle Hd, Becket	2 in	**4FRY4**
	1/2 in	1,760 lb	Flat Mount	2 in	**4FRV4**
	1/2 in	1,760 lb	Swivel Shackle Head	2 in	**4FRV6**
Wire Rope	1/8 in	990 lb	Removable Clevis Pin Hd	1 in	**4FRV1**
	1/8 in	990 lb	Ferrule Top, Removable Sheave	1 in	**4FRU9**
	1/4 in	1,870 lb	Ferrule Top, Removable Sheave	1 3/4 in	**4FRU8**
	5/16 in	830 lb	Sheave Box-9/16" Width	1 3/16 in	**4FRV8**



Eye & Eye Fitting

Jaw End Fitting

Hook End

Turnbuckles

Turnbuckles quickly tighten and loosen chain and wire rope, providing secure connections with the precise tension required. When ordering components, order 1 body and 2 ends (1 left-handed thread and 1 right-handed thread) to make a complete unit.

WARNING: Do not exceed working load limit. Working load limit of an assembly is determined by the component with the lowest working load limit.

Working Load Limit (lb.)	Take Up (in.)	Thread Dia. (in.)	Material	Brand	Item No.
Turnbuckles					
Eye & Eye Fitting					
45	2 11/64 in	—	Steel	—	**1WBR4**
Jaw & Eye Fitting					
5,200	6 9/64 in	3/4	Steel	Crosby	**48FR61**
Jaw & Jaw Fitting					
10,000	12 3/16 in	1	Steel	Crosby	**48FR62**

Working Load Limit (lb.)	Take Up (in.)	Thread Dia. (in.)	Material	Brand	Item No.
End Fittings					
Eye End - Orientation Right					
5,200	6 in	3/4	Forged Galvanized Steel	—	**2ULF5**
Hook End - Orientation Left					
1,500	6 in	1/2	Forged Galvanized Steel	—	**2ULJ3**
Hook End - Orientation Right					
3,000	6 in	3/4	Forged Galvanized Steel	—	**2ULK7**

Warning! This winch equipment is not to be used for lifting, supporting, or transporting people or loads over areas where people could be present.

Chicago Hardware & Fixture Company

Turnbuckles and Swivels

Turnbuckles are made with USA steel for full traceability. Aluminum midget turnbuckles are corrosion-resistant for light-duty applications. Safety snap hooks are forged carbon steel with stainless steel latch, spring, machine screw, and nut; vertical loads are based on a safety factor of 5:1. All swivels are heat-treated and hot-dipped galvanized for corrosion resistance. Drop-forged turnbuckles, except stub ends, meet performance requirements of ASTM F1145, Type 1, Grade 1 Standards for heavy-duty tensioning applications.

		JAW AND JAW			EYE AND EYE			JAW AND EYE		
Thread Dia. (in.)	Take Up (in.)	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.
Drop-Forged Turnbuckles										
¼	4 in	500	8 ½ in	**6NDH3**	500	8 in	**49P587**	500	8 ¼ in	**6NDF2**
5⁄16	4 ½ in	800	9 ¼ in	**6NDH4**	800	9 in	**49P588**	800	9 ⅛ in	**6NDF3**
⅜	6 in	1,200	11 ½ in	**6NDH5**	1,200	11 ½ in	**49P589**	1,200	11 ½ in	**6NDF4**
½	2 in	2,200	8 ⅞ in	**6NDH6**	2,200	8 ½ in	**49P590**	2,200	8 ¾ in	**6NDF5**
	6 in	2,200	13 ½ in	**6NDH7**	2,200	13 in	**49P591**	2,200	13 ¼ in	**6NDF6**
	9 in	2,200	16 ½ in	**6ZFJ0**	2,200	16 in	**49P592**	2,200	16 ¼ in	**6NDF7**
	12 in	2,200	19 ½ in	**6ZFJ1**	2,200	19 in	**49P593**	2,200	19 ¼ in	**6NDF8**
⅝	6 in	3,500	15 ¾ in	**6ZFJ2**	3,500	13 ½ in	**49P594**	3,500	14 ⅝ in	**6NDF9**
	9 in	3,500	18 ¾ in	**6ZFJ3**	3,500	17 in	**49P595**	3,500	17 ⅞ in	**6NDG0**
	12 in	3,500	21 ¾ in	**6ZFJ4**	3,500	20 ½ in	**49P596**	3,500	21 ⅛ in	**6NDG1**
	18 in	3,500	27 ¾ in	**6ZFJ5**	3,500	26 ½ in	**49P597**	3,500	27 ⅛ in	**6NDG2**
¾	6 in	5,200	16 ½ in	**6ZFJ6**	5,200	14 ¾ in	**49P598**	5,200	15 ⅝ in	**6NDG3**
	9 in	5,200	19 ½ in	**6ZFJ7**	5,200	18 in	**49P599**	5,200	18 ¾ in	**6NDG4**
	12 in	5,200	22 ½ in	**6ZFJ8**	5,200	21 ¾ in	**49P601**	5,200	22 in	**6NDG5**
	18 in	5,200	28 ½ in	**6ZFJ9**	5,200	27 ¾ in	**49P602**	5,200	28 in	**6NDG6**
⅞	6 in	7,200	19 ½ in	**6ZFK0**	7,200	18 in	**49P603**	7,200	19 in	**6NDG7**
	12 in	7,200	24 ½ in	**6ZFK1**	7,200	22 ½ in	**49P604**	7,200	23 ½ in	**6NDG8**
	18 in	7,200	30 ½ in	**6ZFK2**	7,200	28 ½ in	**49P605**	7,200	29 ½ in	**6NDG9**
1	6 in	10,000	20 3⁄16 in	**6ZFK3**	10,000	17 in	**49P606**	10,000	19 ⅛ in	**6NDH0**
	12 in	10,000	25 ½ in	**6ZFK4**	10,000	25 in	**49P607**	10,000	25 ¼ in	**6NDH1**
	18 in	10,000	31 ½ in	**6ZFK5**	10,000	31 in	**49P608**	10,000	31 ¼ in	**6NDH2**

		HOOK AND EYE			HOOK AND HOOK			STUB END		
Thread Dia. (in.)	Take Up (in.)	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.
Drop-Forged Turnbuckles										
¼	4 in	400	8 ¼ in	**6NDA0**	400	8 ½ in	**6NDD1**	500	10 in	**6ZFR9**
5⁄16	4 ½ in	700	9 ¼ in	**6NDA1**	700	9 ½ in	**6NDD2**	800	11 in	**6ZFT0**
⅜	6 in	1,000	11 ¾ in	**6NDA2**	1,000	12 in	**6NDD3**	1,200	16 in	**6ZFT1**
½	2 in	1,500	9 ¼ in	**6NDA3**	1,500	10 in	**6NDD4**	2,200	10 ¼ in	**6ZFT2**
	6 in	1,500	13 ⅝ in	**6NDA4**	1,500	14 ¼ in	**6NDD5**	2,200	16 in	**6ZFT3**
	9 in	1,500	16 ⅜ in	**6NDA5**	1,500	17 ¼ in	**6NDD6**	2,200	19 in	**6ZFT4**
	12 in	1,500	19 ⅝ in	**6NDA6**	1,500	20 ¼ in	**6NDD7**	2,200	22 in	**6ZFT5**
⅝	6 in	2,250	14 ⅛ in	**6NDA7**	2,250	14 ¾ in	**6NDD8**	3,500	16 in	**6ZFT6**
	9 in	2,250	17 ⅜ in	**6NDA8**	2,250	17 ¾ in	**6NDD9**	3,500	19 in	**6ZFT7**
	12 in	2,250	20 ⅝ in	**6NDA9**	2,250	20 ¾ in	**6NDE0**	3,500	22 in	**6ZFT8**
	18 in	2,250	26 ⅝ in	**6NDC0**	2,250	26 ¾ in	**6NDE1**	3,500	28 in	**6ZFT9**
¾	6 in	3,000	15 ¾ in	**6NDC1**	3,000	16 ¾ in	**6NDE2**	5,200	17 in	**6ZFV0**
	9 in	3,000	18 ⅞ in	**6NDC2**	3,000	19 ¾ in	**6NDE3**	5,200	20 in	**6ZFV1**
	12 in	3,000	22 ⅛ in	**6NDC3**	3,000	22 ¾ in	**6NDE4**	5,200	23 in	**6ZFV2**
	18 in	3,000	28 ⅛ in	**6NDC4**	3,000	28 ¾ in	**6NDE5**	5,200	29 in	**6ZFV3**
⅞	6 in	3,200	18 ½ in	**6NDC5**	3,200	19 in	**6NDE6**	7,200	18 in	**6ZFV4**
	12 in	3,200	23 ⅛ in	**6NDC6**	3,200	23 ¾ in	**6NDE7**	7,200	24 in	**6ZFV5**
	18 in	3,200	29 ⅛ in	**6NDC7**	3,200	29 ¾ in	**6NDE8**	7,200	30 in	**6ZFV6**
1	6 in	5,000	19 ½ in	**6NDC8**	5,000	20 in	**6NDE9**	9,800	19 in	**6ZFV7**
	12 in	5,000	25 ¼ in	**6NDC9**	5,000	25 ½ in	**6NDF0**	9,800	25 in	**6ZFV8**
	18 in	5,000	31 ¼ in	**6NDD0**	5,000	31 ½ in	**6NDF1**	9,800	31 in	**6ZFV9**
1⅛	6 in	—	—	—	—	—	—	11,500	19 in	**6ZFW0**
	12 in	—	—	—	—	—	—	11,500	25 in	**6ZFW1**
1¼	6 in	—	—	—	—	—	—	14,800	20 in	**6ZFW2**
1⅜	6 in	—	—	—	—	—	—	17,500	20 ½ in	**6ZFW3**
1½	6 in	—	—	—	—	—	—	21,000	20 ½ in	**6ZFW4**

		EYE AND EYE		JAW AND EYE		CHAIN		SAFETY SNAP	
Trade Size	Finish	Working Load Limit	Item No.	Working Load Limit	Item No.	Working Load Limit	Item No.	Working Load Limit	Item No.
Drop-Forged Swivels									
¼ in	Galvanized	860 lb	**6ZFL0**	860 lb	**6ZFL6**	520 lb	**6ZFN2**	—	—
5⁄16 in	Galvanized	1,260 lb	**6ZFL1**	1,260 lb	**6ZFL7**	920 lb	**6ZFN3**	—	—
⅜ in	Galvanized	2,200 lb	**6ZFL2**	2,200 lb	**6ZFL8**	1,240 lb	**6ZFN4**	—	—
½ in	Galvanized	3,600 lb	**6ZFL3**	3,600 lb	**6ZFL9**	2,200 lb	**6ZFN5**	—	—
⅝ in	Galvanized	5,200 lb	**6ZFL4**	5,200 lb	**6ZFN0**	3,200 lb	**6ZFN6**	—	—
¾ in	Galvanized	7,000 lb	**6ZFL5**	7,000 lb	**6ZFN1**	4,000 lb	**6ZFN7**	—	—
Drop-Forged Hooks With Eye									
7⁄16 in	Self Color	—	—	—	—	—	—	750 lb	**6ZFK6**
	Galvanized	—	—	—	—	—	—	750 lb	**6ZFK8**
9⁄16 in	Self Color	—	—	—	—	—	—	1,000 lb	**6ZFK7**
	Galvanized	—	—	—	—	—	—	1,000 lb	**6ZFK9**

		EYE AND EYE			HOOK AND EYE			HOOK AND HOOK		
Thread Dia. (in.)	Take Up (in.)	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.	Working Load Limit (lb.)	Close Length (in.)	Item No.
Aluminum Midget Turnbuckles										
¼-20	2 ⅛ in	74	5 ½ in	**6ZFP1**	68	5 ½ in	**6ZFP8**	—	—	—
1⁄64	1 ⅝ in	38	4 in	**6ZFN9**	—	—	—	—	—	—
8⁄32	1 ¼ in	36	3 ⅜ in	**6ZFN8**	36	3 ⅜ in	**6ZFP5**	36	3 ⅜ in	**6ZFR2**
1¼	2 ⅛ in	—	—	—	—	—	—	68	5 ½ in	**6ZFR5**
⅜-16	3 in	144	7 ½ in	**6ZFP3**	144	7 ½ in	**6ZFR0**	174	7 ½ in	**6ZFR7**
	6 in	144	11 ⅜ in	**6ZFP4**	144	11 ⅜ in	**6ZFR1**	174	11 ⅜ in	**6ZFR8**
5⁄16-18	2 ½ in	96	6 ¾ in	**6ZFP2**	96	6 ¾ in	**6ZFP9**	112	6 ¾ in	**6ZFR6**
10-24	1 ⅝ in	—	—	—	38	4 in	**6ZFP6**	44	4 in	**6ZFR3**
12-24	1 ⅞ in	52	4 ½ in	**6ZFP0**	52	4 ½ in	**6ZFP7**	52	4 ½ in	**6ZFR4**

Jaw and Jaw Turnbuckle

Eye and Eye

Jaw and Eye Turnbuckle

Hook and Eye Turnbuckle

Hook and Hook Turnbuckle

Stub End Turnbuckle

Eye and Eye Swivel

Jaw and Eye Swivel

Chain Swivel

Safety Snap Hook

Eye and Eye Midget Turnbuckle

11C399

Wire Rope Festoon Kits

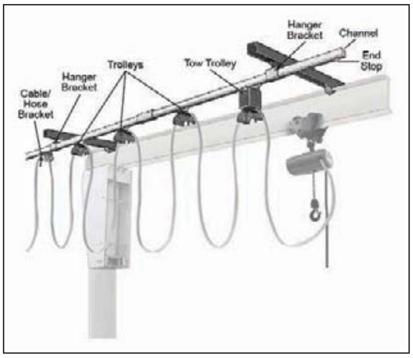
- Trolley capacity: 15 lb.
- Nylon wheels

All kits include wire rope, hardware, intermediate trolleys, end clamp, tow clamp, and bumper stop.

Description	Cable Size (in.)	Item No.
Wire Rope Festoons for 3⁄16" to 3⁄8" O.D. Components		
Round Cable Type		
Festoon Cable/Hose Carrier Trolley	0.31 to 0.59	35V720
	0.60 to 0.94	11C383
	0.95 to 1.25	11C384
Wire Rope System Components		
Flat Cable Type		
Festoon Cable Carrier	2.1 x 0.66	11C385
Festoon End Clamp	2.0 x 1.25	11C388
Festoon Tow Clamp	2.0 x 1.25	11C391
Round Cable Type		
Festoon End Clamp	0.60 to 0.94 OD	11C386
	0.95 to 1.25 OD	11C387
Festoon Tow Clamp	0.31 to 0.59	35V732
	0.60 to 0.94 OD	11C389
	0.95 to 1.25 OD	11C390
Optional Accessories		
Festoon Tension Bracket	—	11C392
Festoon Tow Arm	—	11C393

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
0.65 x 2.0 Cable				
14 to 23	20 ft	24 ft	2	11C394
19 to 30	27 ft	32 ft	3	11C395
23 to 37	33 ft	39 ft	4	11C396
27 to 44	40 ft	47 ft	5	11C397
32 to 51	47 ft	55 ft	6	11C398
36 to 58	54 ft	63 ft	7	11C399
40 to 65	60 ft	70 ft	8	11C401
44 to 72	72 ft	75 ft	9	11C402
Round Festoon System Kits				
0.31 to 0.59 Cable				
13 to 21	18 ft	25 ft	2	11C403
17 to 27	24 ft	34 ft	3	11C404
21 to 34	30 ft	42 ft	4	11C405
25 to 40	37 ft	50 ft	5	11C406
28 to 47	43 ft	58 ft	6	11C407
32 to 53	49 ft	67 ft	7	11C408
36 to 60	55 ft	75 ft	8	11C409
40 to 67	61 ft	82 ft	9	11C410
44 to 74	67 ft	89 ft	10	11C411
0.60 to 0.94 Cable				
13 to 21	18 ft	25 ft	2	11C412
17 to 27	24 ft	34 ft	3	11C413
21 to 34	30 ft	42 ft	4	11C414
25 to 40	37 ft	50 ft	5	11C415
28 to 47	43 ft	58 ft	6	11C416
32 to 53	49 ft	67 ft	7	11C417
36 to 60	55 ft	75 ft	8	11C418
40 to 67	61 ft	82 ft	9	11C419
44 to 74	67 ft	89 ft	10	11C420
0.95 to 1.25 Cable				
13 to 21	18 ft	25 ft	2	11C421
17 to 27	24 ft	34 ft	3	11C422
21 to 34	30 ft	42 ft	4	11C423
25 to 40	37 ft	50 ft	5	11C424
28 to 47	43 ft	58 ft	6	11C425
32 to 53	49 ft	67 ft	7	11C426
36 to 60	55 ft	75 ft	8	11C427
40 to 67	61 ft	82 ft	9	11C428
44 to 74	67 ft	89 ft	10	11C429

11C430



C-Rail Cable Festooning Systems

- Trolley capacity: 45 lb.
- Steel wheels

All systems include C-rail track, end clamp, intermediate trolleys, tow trolley, end caps, coupler/hanger, and end stop.

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
1.50 x 2.12" Cable				
20	17 ft	26 ft	3	11C430
30	26 ft	37 ft	5	11C431
40	36 ft	48 ft	6	11C432
50	45 ft	59 ft	8	11C433
60	55 ft	70 ft	10	11C434
70	64 ft	82 ft	12	11C435
80	72 ft	93 ft	14	11C436
90	82 ft	103 ft	16	11C437
100	92 ft	113 ft	18	11C438
Round Festoon System Kits				
0.60 to 0.94" Cable				
20	16.9 ft	23 ft	3	11C474
30	26.5 ft	34 ft	5	11C475
40	35.7 ft	45 ft	6	11C476
50	44.8 ft	56 ft	8	11C477
60	54.4 ft	67 ft	10	11C478
70	63.6 ft	79 ft	12	11C479
80	72.8 ft	90 ft	14	11C480
90	82.3 ft	100 ft	16	11C481
100	91.5 ft	110 ft	18	11C482
0.95 to 1.25" Cable				
20	16.9 ft	23 ft	3	11C483
30	26.5 ft	34 ft	5	11C484
40	35.7 ft	45 ft	6	11C485
50	44.8 ft	56 ft	8	11C486
60	54.4 ft	67 ft	10	11C487
70	63.6 ft	79 ft	12	11C488
80	72.8 ft	90 ft	14	11C489
90	82.3 ft	100 ft	16	11C490
100	91.5 ft	110 ft	18	11C491

Description	Cable Size (in.)	Item No.
Flat Cable Festooning Components		
Festoon Tow Trolley	1.50 x 2.12	11C439
Festoon Intermediate Trolley	1.50 x 2.12	11C440
Festoon Fixed Clamp	1.50 x 2.12	11C441
Festoon Beam Clamp	—	11C448
Festoon Track, 10 ft. L	—	11C442
Festoon Cross Arm, 2½ ft. L	—	11C443
Festoon Tow Arm, 1⅓ ft. L	—	11C447
Festoon Track Splice	—	11C444
Festoon End Stop	—	11C445
Festoon Track Bracket	—	11C446
Brass Flat Cable Connector	0.45 x 1.18 Max	11C449
	0.47 x 1.77 Max	11C450
	0.45 x 1.57 Max	11C451
	0.47 x 1.97 Max	11C452
Round Cable Festooning Components		
Festoon Tow Trolley	0.60 to 0.94	11C467
	0.95 to 1.25	11C470
Festoon Intermediate Trolley	0.60 to 0.94	11C468
	0.95 to 1.25	11C471
Festoon Fixed Clamp	0.60 to 0.94	11C469
	0.95 to 1.25	11C472
Festoon Track Bracket	—	11C473
Festoon End Stop		
I-Beam Hung	—	11C497

7CZ29

Dayton

Box Track Festoon Systems

Easy-to-assemble systems support flat or round cable and hoses for delivering power and control.

Overall Length (ft.)	Item No.
Festoon System Kit	
With Trolleys for Flat Cable - 1.38 x 2.13	
20	**7CZ29**
30	**7CZ30**
40	**7CZ31**
50	**7CZ32**
60	**7CZ33**
70	**7CZ34**
80	**7CZ35**
90	**7CZ36**
100	**7CZ37**
With Trolleys for Round Cable - .97 to 1.4	
20	**7CZ38**
30	**7CZ39**
40	**7CZ40**
50	**7CZ41**
60	**7CZ42**
70	**7CZ43**
80	**7CZ44**
90	**7CZ45**
100	**7CZ46**

Overall Length (ft.)	Item No.
With Trolleys for Round Cable - .6 to .96	
20	**7CZ47**
30	**7CZ48**
40	**7CZ49**
50	**7CZ50**
60	**7CZ51**
70	**7CZ52**
80	**7CZ53**
90	**7CZ54**
100	**7CZ55**
Festoon Track Kit	
Without Trolleys	
20	**7CZ56**
30	**7CZ57**
40	**7CZ58**
50	**7CZ59**
60	**7CZ60**
70	**7CZ61**
80	**7CZ62**
90	**7CZ63**
100	**7CZ64**

11C492

Gleason Reel

Adjustable S-Beam Trolleys

S-beam trolleys are economical, durable, and expandable. Festoon cable trolley runs on various size S-beams (S3 x 5.7, S4 x 7.7, S6 x 12.5).Trolleys roll on 4 steel ball bearing wheels that have a static load capacity of 1000 lb. each; and a rolling capacity of 154 lb. at 262 ft. per minute. Multiple cable saddle configurations provide a variety of cable carrying options for single or dual flat cable or round cable.

Cable Size (in.)	Cable Type	Item No.
Festoon Intermediate Trolley		
0.60 to 0.94	Round	**11C492**
0.95 to 1.25	Round	**11C493**
1.25 to 3.50	Dual Flat	**11C494**
1.25 x 3.50	Flat	**11C495**
Festoon End Clamp		
0.60 to 0.94	Round	**11C501**
0.95 to 1.30	Round	**11C502**
1.25 x 3.50	Flat	**11C498**
1.25 x 3.50	Dual Flat	**11C499**
Festoon Control Box Trolley		
0.94 to 1.25	—	**11C496**
Festoon End Stop		
—	—	**11C497**

Description	Item No.
Festoon Tow Arm	
1 ft. Overall L - I-Beam Hung	**11C503**
1¼ ft. Overall L - I-Beam Hung	**11C504**
1½ ft. Overall L - I-Beam Hung	**11C505**

33N203

Dayton

Festoon System Kits

- Trolley capacity: 13 lb.
- Molded concave nylon wheels

All kits include wire rope, hardware, intermediate trolleys, and end clamp.

Overall Length (ft.)	Max. Travel Distance (ft.)	Min. Cable/ Hose Req. (ft.)	No. of Trolleys	Item No.
Flat Festoon System Kits				
0.88 x 2.38" Cable				
20	20 ft	32 ft	3	**33N203**
40	40 ft	54 ft	6	**33N204**
60	60 ft	76 ft	9	**33N205**
80	80 ft	98 ft	13	**33N206**
Round Festoon System Kits				
0.91 to 1.25" Cable				
20	20 ft	32 ft	3	**33N207**
40	40 ft	54 ft	6	**33N208**
60	60 ft	76 ft	9	**33N209**
80	80 ft	98 ft	13	**33N210**
0.49 to 0.91" Cable				
20	20 ft	32 ft	3	**33N211**
40	40 ft	54 ft	6	**33N212**
60	60 ft	76 ft	9	**33N213**
80	80 ft	98 ft	13	**33N214**

Description	Item No.
Box Track Components	
Festoon Track Section	**33N234**
Festoon Joint Bracket	**33N235**
Festoon Hanger Bracket	**33N236**
Festoon End Stop	**33N237**
Festoon Support Bracket	**33N238**
Festoon Support Bracket Clip	**33N239**
End Cap	**35W634**
Tow Bar	**35W635**
Festoon Hardware Kit	**33N273**
Tow Car	**33N201**

Cable Size (in.)	Item No.
Festoon Lead Trolleys	
Flat Cable	
1.38 x 2.13	**33N227**
Round Cable	
0.6 to 0.96	**33N229**
0.97 to 1.4	**33N228**
Festoon Intermediate Trolleys	
Flat Cable	
0.59 x 2.13	**33N230**
0.87 x 2.13	**33N267**
1.38 x 2.13	**33N224**
1.50 x 2.32	**33N199**
Round Cable	
0.49 to 0.91	**33N268**
0.6 to 0.96	**33N226**
0.91 to 1.25	**33N269**
0.97 to 1.4	**33N225**
Festoon End Clamps	
Flat Cable	
0.87 x 2.13	**33N270**
1.38 x 2.13	**33N231**
1.50 x 2.32	**33N202**
Round Cable	
0.6 to 0.96	**33N233**
0.91 to 1.25	**33N272**
0.97 to 1.4	**33N232**

Gleason Reel

Festoon Cable and Connectors

Flat Festoon Cable

Flat Cable Connector

- 660V
- Black cable
- UL Listed and CSA Certified

Flat electrical cable is PVC jacketed. Temp. range: -40° to 105C°.

Round electrical cable is type SO. Temp. range: -40° to 90C°.

Cable Size (in.)	Item No.
Flat Cable Connectors	
Nylon	
0.45 x 1.18 Max	**11C453**
0.45 x 1.57 Max	**11C454**
0.47 x 1.77 Max	**11C455**
Round Cable Connectors	
Nylon	
.231 to .394	**11C462**
.270 to .480	**11C463**
.428 to .546	**11C464**

Conductor Size (AWG)	Conductors	Amps	H (in.)	W (in.)	Weight/ ft. (lb.)	Item No.
Flat Electrical Cables						
16 AWG	12	14 A	0.225 in	1.7 in	0.27 lb/ft	**11C510**
14 AWG	4	27 A	0.24 in	0.69 in	0.13 lb/ft	**11C511**
	8	19 A	0.24 in	1.29 in	0.24 lb/ft	**11C512**
	12	19 A	0.24 in	1.825 in	0.37 lb/ft	**11C513**
12 AWG	4	33 A	0.26 in	0.8 in	0.16 lb/ft	**11C514**
10 AWG	4	44 A	0.29 in	0.89 in	0.23 lb/ft	**11C516**
8 AWG	4	60 A	0.375 in	1.225 in	0.42 lb/ft	**11C517**
6 AWG	4	82 A	0.435 in	1.49 in	0.65 lb/ft	**11C518**
Round Electrical Cables						
16 AWG	3	10 A	—	0.393 in	0.11 lb/ft	**11C521**
14 AWG	3	15 A	—	0.538 in	0.18 lb/ft	**11C524**
	4	12 A	—	0.584 in	0.22 lb/ft	**11C525**
	8	10.5 A	—	0.77 in	0.37 lb/ft	**11C526**
12 AWG	3	20 A	—	0.616 in	0.24 lb/ft	**11C527**
	4	16 A	—	0.668 in	0.28 lb/ft	**11C528**
10 AWG	4	20 A	—	0.73 in	0.37 lb/ft	**11C529**

Baling and Safety Wire

MALIN SINCE 1884

16X974 – Spool

16X997 – Coil

16Y047 – Canister

- Packaged in spools, except as noted

ALUMINUM WIRE

- Grade 1100 soft temper
- Max. tensile strength: 15,500 psi

99% aluminum wire is lightweight, matte finish, offers good electrical conductivity, and is fair with corrosion resistance applications.

GALVANIZED ANNEALED WIRE

- Grade 1008-1010 soft temper
- Max. tensile strength: 75,000 psi

Galvanized wire has better corrosion resistance than matte and oil-finished wire.

BLACK ANNEALED WIRE

- Grade 1006-1008 high-carbon wire
- Max. tensile strength: 65,000 psi

Designed for bailing, stove, or pipe wire. Ranges in color from dark gray to brown.

STAINLESS STEEL LOCKWIRE

- Grade 302/304 soft temper
- Min. tensile strength: 75,000 psi

Commonly used as safety-lock wire in food processing and chemical environments.

INCONEL WIRE

- Grade 600 soft temper
- Max. tensile strength: 115,000 psi

Nickel wire is frequently used as a safety-lock wire in harsh environments.

MONEL WIRE

- Grade 400 soft temper
- Max. tensile strength: 85,000 psi

Nickel wire is often used as a safety-lock wire in acidic environments. Provides good corrosion resistance.

	Weight							
	¼ LB.		1 LB.		5 LB.		12 LB.	
Dia.	L	Item No.	L	Item No.	L	Item No.	L	Item No.
Aluminum Baling Wire								
0.0126 in	1,735 ft	16X974	6,940 ft	16X985	—	—	—	—
0.0159 in	1,090 ft	16X975	4,358 ft	16X986	—	—	—	—
0.0201 in	682 ft	16X976	2,727 ft	16X987	—	—	—	—
0.0253 in	430 ft	16X977	1,721 ft	16X988	—	—	—	—
0.0319 in	269 ft	16X978	1,076 ft	16X989	—	—	—	—
0.0403 in	170 ft	16X979	678 ft	16X990	—	—	—	—
0.0508 in	107 ft	16X980	427 ft	16X991	—	—	—	—
0.064 in	67 ft	16X981	268 ft	16X992	—	—	—	—
0.0808 in	42 ft	16X982	169 ft	16X993	—	—	2,026 ft	16X996 †
0.1144 in	21 ft	16X983 †	84 ft	16X994	—	—	1,010 ft	16X997 †
0.125 in	17 ft	16X984 †	67 ft	16X995	—	—	808 ft	16X998 †
Galvanized Annealed Wire								
0.023 in	177 ft	16Y021	709 ft	16Y028	3,544 ft	16Y035	—	—
0.0286 in	115 ft	16Y022	458 ft	16Y029	2,292 ft	16Y036	—	—
0.0348 in	77 ft	16Y023	310 ft	16Y030	1,548 ft	16Y037	—	—
0.041 in	56 ft	16Y024	223 ft	16Y031	1,115 ft	16Y038	—	—
0.0475 in	42 ft	16Y025	166 ft	16Y032	831 ft	16Y039	—	—
0.0625 in	24 ft	16Y026	96 ft	16Y033	480 ft	16Y040	—	—
0.08 in	15 ft	16Y027	59 ft	16Y034	293 ft	16Y041	—	—
Black Annealed Wire								
0.023 in	177 ft	16X999	709 ft	16Y007	3,544 ft	16Y014	—	—
0.0286 in	115 ft	16Y001	458 ft	16Y008	2,292 ft	16Y015	—	—
0.0348 in	77 ft	16Y002	310 ft	16Y009	1,548 ft	16Y016	—	—
0.041 in	56 ft	16Y003	223 ft	16Y010	1,115 ft	16Y017	—	—
0.0475 in	42 ft	16Y004	166 ft	16Y011	830 ft	16Y018	—	—
0.0625 in	24 ft	16Y005	96 ft	16Y012	480 ft	16Y019	—	—
0.08 in	15 ft	16Y006	59 ft	16Y013	293 ft	16Y020	—	—
Stainless Steel Lockwire								
0.02 in	232.75 ft	16Y042	931 ft	16Y047 *	4,655 ft	16Y052	—	—
0.025 in	149 ft	16Y043	596 ft	16Y048 *	2,980 ft	16Y053	—	—
0.032 in	91 ft	16Y044	364 ft	16Y049 *	1,820 ft	16Y054	—	—
0.041 in	55.25 ft	16Y045	221 ft	16Y050 *	1,105 ft	16Y055	—	—
0.051 in	35.75 ft	16Y046	143 ft	16Y051 *	715 ft	16Y056	—	—
Inconel Lockwire								
0.02 in	207.75 ft	16Y057	831 ft	16Y061 *	—	—	—	—
0.0253 in	133 ft	16Y058	532 ft	16Y062 *	—	—	—	—
0.0319 in	81.5 ft	16Y059	326 ft	16Y063 *	—	—	—	—
0.041 in	51.78 ft	16Y060	207.12 ft	16Y064 *	—	—	—	—
Monel Lockwire								
0.0201 in	207.75 ft	16Y065	831 ft	16Y069	—	—	—	—
0.0253 in	133 ft	16Y066	532 ft	16Y070	—	—	—	—
0.0319 in	81.5 ft	16Y067	326 ft	16Y071	—	—	—	—
0.051 in	31.948 ft	16Y068	127.79 ft	16Y072	—	—	—	—

** Canister packaging. † Coil packaging.*

38D182

38D196

COASTAL WIRE COMPANY
Quality... our reputation is tied to it®

Baling Ties and Wire

Painted ties combine the clean handling of a galvanized tie with the ease of tying associated with black annealed ties. Paint coating does not peel or flake. Wire features 65,000 to 70,000 tensile strength with a minimum of 25% elongation.

Dia.	L	Gauge	Weight	GALVANIZED STEEL Item No.	PAINTED STEEL Item No.
Single Loop Bale Ties					
00.08 in	13 ft	14 ga.	58 lb.	38D187	38D194
	14 ft	14 ga.	62 lb.	38D188	38D195
00.092 in	14 ft	13 ga.	40½ lb.	38D186	38D193
00.121 in	21 ft	11 ga.	52 lb.	38D185	38D192
00.106 in	14 ft	12 ga.	54 lb.	38D182	38D189
	18 ft	12 ga.	69 lb.	38D183	38D190
	21 ft	12 ga.	80 lb.	38D184	38D191

Dia.	L	Gauge	Weight	ANNEALED WIRE Item No.
Double Loop Bale Ties				
0.0625 in	10 in	16 ga.	57 lb.	39UK40
	1.5 ft	16 ga.	44 lb.	39UK41
	0.5 ft	16 ga.	48 lb.	39UK42

Dia.	L	Gauge	Weight	ANNEALED STEEL Item No.
Baling Wire				
00.121 in	1,287 ft	11 ga.	50 lb.	38D199
	2,575 ft	11 ga.	100 lb.	38D197
00.135 in	1,026 ft	10 ga.	50 lb.	38D198
	2,053 ft	10 ga.	100 lb.	38D196

20Y783

COASTAL WIRE COMPANY
Quality... our reputation is tied to it®

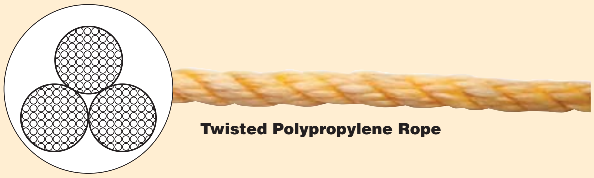
Steel Wire Bale Ties

- Galvanized finish

L	Wire Gauge	Weight	Item No.	Pkg. Qty.
Coil				
13 ft	13 ga	75 lb.	20Y783	250
Wire Ties				
14 ft	11 ga	—	41FT37	62
16 ft	11 ga	—	41FT38	62

All-Purpose Rope Terminology

Twisted Cotton Rope



Twisted Polypropylene Rope

Hollow Braided Rope

MATERIAL SELECTION GUIDE

	Natural Fiber	Nylon	Polyester	Polypropylene
Strength	Low	Highest	High	Average
Abrasion Resistance	Low	High	Highest	Average
Stretch Resistance	Highest	Low	High	Average
Rot/Mildew Resistance	Low	Average	High	Highest
Chemical Resistance	Low	Average	Highest	High
Critical Temperature	300°F/150°C	350°F/175°C	350°F/175°C	250°F/125°C
Storage	Dry	Dry or Wet	Dry or Wet	Dry or Wet
Floats	No	No	No	Yes

CONSTRUCTION

Twisted—Also known as 3-strand. Available in a wide variety of fibers for general purpose uses. Can be easily spliced.

Knit Braid—Braided jacket, usually lightweight and economical. Ideal for applications that require the rope to stretch.

Braid/Solid Braid—Firm, round rope with lock-stitch construction. Maintains shape under load, making it ideal in blocks or pulley applications. Cannot be spliced.

Hollow Braid—Constructed of 8, 12, or 16 strands. Used in marine applications. Can easily be spliced.

Double Braid—Solid braid core covered by a braided jacket. Torque free and nonrotational. High strength, can be easily spliced.

Diamond Braid—Constructed by braiding fibers to form diamond shapes. Rope is often flat or box-like and very easy to splice.

FIBER

Composite—Blend of polyester and polypropylene. Stronger and better resilience to UV rays and other corrosives. Firmer than traditional polyester rope.

Natural Fiber (Cotton, Jute, and Manila)—Knots well and has good abrasion resistance, but not as strong or durable as synthetic fibers. Cotton must be kept dry, and has low resistance to rot, mildew, oils, gas, grease, and chemicals.

Nylon—Excellent shock absorption. It stretches, is rotproof, and resistant to UV rays, oils, gasoline, grease, and nonacidic chemicals.

Polyester—Minimal stretch and high strength. Rotproof and resistant to UV rays, oils, gasoline, grease, and nonacidic chemicals.

Polypropylene—Lightweight, economical fiber, can be made in many colors and floats. Should not be exposed to UV rays or high heat.

SNAPBACK SAFETY WARNING: A dangerous situation occurs if personnel are in line with a rope under tension. Should the rope fail, it may recoil with considerable force. Death may result. Warn people against standing in line with the rope or its bight. To help ropes last longer: AVOID overloading, abrasion, sudden strain, kinks, sharp angles, chemicals, and improper storage. Use correct size rope for job, reverse ends of rope, and keep rope clean.

Braid, Cotton
35MN88

3-Strand Twisted Manila
35MN96

Solid Braid, Nylon
35MP14

Double Braid, Polyester
45AU87

Twisted, Polypropylene
45AU93

All-Purpose Rope

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Package Type	Item No.
Composite						
Twisted	⅜ in	600 ft.	483 lb	Black Tracer/White	Spool	**45AU86**
	½ in	600 ft.	465 lb	Black Tracer/White	Spool	**45AV40**
	¾ in	600 ft.	1,065 lb	Black Tracer/White	Spool	**45AV14**
Cotton						
Knit Braid	3/16 in	50 ft.	15 lb	White	Hank	**35MN88**
Solid Braid	5/32 in	100 ft.	75 lb	White	Hank	**35MN85**
	¼ in	100 ft.	75 lb	White	Hank	**35MN86**
	5/16 in	100 ft.	120 lb	White	Hank	**35MN87**
Twisted	⅜ in	600 ft.	30 lb	White	Spool	**45AV28**
	½ in	300 ft.	215 lb	White	Reel	**35MP23**
	⅝ in	600 ft.	50 lb	White	Spool	**45AV43**
Manila						
Twisted	¼ in	1200 ft.	54 lb	Manila	Carton	**35MN96**
	⅜ in	600 ft.	483 lb	Manila	Carton	**35MN97**
	½ in	600 ft.	238 lb	Manila	Carton	**35MN98**
	⅝ in	600 ft.	396 lb	Manila	Carton	**35MN99**
	¾ in	600 ft.	486 lb	Manila	Carton	**35MP01**
	1 in	600 ft.	810 lb	Manila	Carton	**35MP02**

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Package Type	Item No.
Nylon						
Braid	¼ in	100 ft.	130 lb	White	Hank	**35MP09**
Double Braid	¼ in	600 ft.	215 lb	White	Spool	**45AU83**
	⅜ in	600 ft.	450 lb	White	Spool	**45AU92**
	½ in	600 ft.	810 lb	White	Spool	**45AU96**
	⅝ in	600 ft.	1,400 lb	White	Spool	**45AV15**
	¾ in	600 ft.	1,820 lb	White	Spool	**45AV61**
	1 in	600 ft.	3,330 lb	White	Spool	**45AV45**
Solid Braid	⅛ in	500 ft.	39 lb	White	Reel	**35MP14**
	3/16 in	100 ft.	62 lb	White	Bag	**12U273**
	3/16 in	1000 ft.	62 lb	White	Spool	**20RX11**
	3/16 in	1000 ft.	79 lb	White	Reel	**35MP15**
	¼ in	100 ft.	108 lb	White	Bag	**12U274**
	¼ in	500 ft.	108 lb	White	Spool	**12U275**
	5/16 in	100 ft.	162 lb	White	Hank	**12U276**
	5/16 in	500 ft.	193 lb	White	Reel	**35MP16**
	⅜ in	100 ft.	229 lb	White	Hank	**12U278**
	⅜ in	200 ft.	229 lb	White	Spool	**12U279**
	⅜ in	500 ft.	247 lb	White	Reel	**35MP17**
	½ in	250 ft.	387 lb	White	Spool	**12U280**
	½ in	500 ft.	396 lb	White	Reel	**35MP18**

CONTINUED

CONTINUED

All-Purpose Rope

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Package Type	Item No.
Twisted	¼ in	50 ft.	110 lb	White	Bag	**45AV42**
	¼ in	600 ft.	154 lb	White	Spool	**45AU81**
	¼ in	600 ft.	180 lb	White	Reel	**35MP05**
	¼ in	1200 ft.	180 lb	White	Spool	**45AV08**
	⅜ in	100 ft.	250 lb	White	Hank	**45AV69**
	⅜ in	100 ft.	324 lb	White	Hank	**8CGV5**
	⅜ in	600 ft.	322 lb	White	Reel	**35MP12**
	⅜ in	600 ft.	379 lb	White	Reel	**35MP06**
	½ in	50 ft.	450 lb	White	Hank	**45AU91**
	½ in	200 ft.	630 lb	White	Spool	**45AV49**
	½ in	300 ft.	635 lb	White	Spool	**45AU88**
	½ in	600 ft.	630 lb	White	Spool	**45AU90**
	½ in	600 ft.	750 lb	White	Reel	**35MP07**
	½ in	600 ft.	750 lb	White	Spool	**45AV17**
	⅝ in	300 ft.	1,100 lb	White	Spool	**45AV44**
	⅝ in	600 ft.	940 lb	White	Spool	**45AV38**
	⅝ in	600 ft.	1,120 lb	White	Spool	**45AU97**
	¾ in	300 ft.	1,210 lb	White	Spool	**45AV63**
	¾ in	600 ft.	1,200 lb	White	Spool	**45AV57**
	¾ in	600 ft.	1,430 lb	White	Spool	**45AV70**
	1 in	600 ft.	1,120 lb	White	Reel	**35MP08**
	1 in	600 ft.	2,700 lb	White	Spool	**45AV19**
	1 ¼ in	600 ft.	3,400 lb	White	Spool	**45AV56**
	1 ½ in	600 ft.	4,300 lb	White	Spool	**45AU94**
Nylon/Polyester						
Solid Braid	5⁄16 in	300 ft.	162 lb	White	Spool	**12U277**
Polyester						
Diamond Braid	7⁄32 in	100 ft.	21 lb	White	Hank	**12U288**
	¼ in	100 ft.	28 lb	White	Hank	**12U289**
	⅜ in	100 ft.	64 lb	White	Hank	**12U290**
Double Braid	¼ in	600 ft.	200 lb	Green Tracer/White	Spool	**45AV68**
	⅜ in	600 ft.	440 lb	Green Tracer/White	Spool	**45AU74**
	½ in	600 ft.	790 lb	Green Tracer/White	Spool	**45AU82**
	⅝ in	600 ft.	1,260 lb	Green Tracer/White	Spool	**45AV62**
	¾ in	600 ft.	1,850 lb	Green Tracer/White	Spool	**45AV51**
	1 in	600 ft.	3,120 lb	Green Tracer/White	Spool	**45AU87**
Polyester/Polypropylene						
Twisted	⅝ in	600 ft.	790 lb	Black Tracer/White	Spool	**45AV31**
Polyolefin						
Braid	⅛ in	50 ft.	10 lb	Black/Blue/Orange/Red	Hank	**45AV24**
	⅜ in	100 ft.	16 lb	Black/Blue/Green/ Orange/Red/Yellow	Hank	**45AV32**
Polypropylene						
Diamond Braid	3⁄16 in	100 ft.	60 lb	Blue	Hank	**20TL72**
	¼ in	100 ft.	120 lb	Blue	Hank	**20TL73**
	⅜ in	50 ft.	120 lb	Black/Blue/Red/Yellow	Hank	**20TL79**
	⅜ in	50 ft.	240 lb	Blue	Hank	**20TL74**
	⅜ in	100 ft.	240 lb	Blue	Hank	**20TL75**
	⅜ in	250 ft.	120 lb	Black/Blue/Red/Yellow	Spool	**20TL80**
	½ in	50 ft.	440 lb	Blue	Hank	**20TL76**
	½ in	100 ft.	440 lb	Blue	Hank	**20TL77**
	⅝ in	100 ft.	600 lb	Blue	Hank	**20TL78**

Rope Construction	Rope Dia.	L	Working Load Limit	Color	Package Type	Item No.
Hollow Braid	¼ in	500 ft.	110 lb	Black	Spool	**45AV64**
	¼ in	1000 ft.	100 lb	Black	Spool	**45AV33**
	¼ in	1000 ft.	100 lb	Blue	Spool	**45AV34**
	¼ in	1000 ft.	122 lb	Yellow	Spool	**45AU89**
	¼ in	1000 ft.	198 lb	Yellow	Spool	**20TL63**
	⅜ in	100 ft.	215 lb	Yellow	Bag	**8URR3**
	⅜ in	500 ft.	257 lb	Yellow	Reel	**35MP13**
	⅜ in	500 ft.	257 lb	Black	Spool	**45AV16**
	½ in	300 ft.	440 lb	Yellow	Spool	**45AU80**
Round Braid	½ in	100 ft.	440 lb	Blue	Hank	**12A622**
	⅝ in	100 ft.	600 lb	Blue	Hank	**12A623**
Twisted	3⁄16 in	1000 ft.	70 lb	Yellow	Spool	**45AV30**
	3⁄16 in	3000 ft.	70 lb	Yellow	Spool	**45AV09**
	¼ in	50 ft.	90 lb	Yellow	Bag	**45AV05**
	¼ in	600 ft.	105 lb	Yellow	Reel	**35MN92**
	¼ in	600 ft.	108 lb	Yellow	Reel	**35MP03**
	¼ in	1200 ft.	90 lb	Tan	Spool	**45AV23**
	¼ in	1200 ft.	108 lb	Yellow	Spool	**45AU78**
	5⁄16 in	600 ft.	160 lb	Magenta/Yellow	Spool	**45AV10**
	5⁄16 in	600 ft.	160 lb	Black/Yellow	Spool	**45AV39**
	5⁄16 in	1200 ft.	146 lb	Black/Yellow	Reel	**35MN93**
	⅜ in	50 ft.	195 lb	Yellow	Bag	**45AV47**
	⅜ in	50 ft.	215 lb	Black/Orange	Ball	**45AV21**
	⅜ in	600 ft.	195 lb	Tan	Spool	**45AU79**
	⅜ in	600 ft.	214 lb	Yellow	Reel	**35MN94**
	⅜ in	600 ft.	215 lb	Yellow	Spool	**45AU77**
	⅜ in	600 ft.	215 lb	Orange	Spool	**45AU95**
	⅜ in	600 ft.	215 lb	Black	Spool	**45AU98**
	⅜ in	600 ft.	215 lb	Blue	Spool	**45AV22**
	⅜ in	600 ft.	215 lb	Black/Orange	Spool	**45AV25**
	⅜ in	1200 ft.	215 lb	Yellow	Spool	**45AV03**
	½ in	50 ft.	420 lb	Black/Orange	Shrink Pack	**9WP25**
	½ in	600 ft.	300 lb	Tan	Spool	**45AV07**
	½ in	600 ft.	340 lb	Black/Orange	Spool	**45AU99**
	½ in	600 ft.	347 lb	Yellow	Reel	**35MP04**
	½ in	600 ft.	387 lb	Yellow	Reel	**35MN95**
	⅝ in	600 ft.	440 lb	Tan	Spool	**45AV35**
	⅝ in	600 ft.	582 lb	Yellow	Spool	**45AV67**
	⅝ in	600 ft.	598 lb	Black/Orange	Spool	**45AV26**
	¾ in	600 ft.	605 lb	Tan	Spool	**45AU85**
	¾ in	600 ft.	790 lb	Yellow	Spool	**45AV04**
	¾ in	600 ft.	790 lb	Black/Orange	Spool	**45AV55**
	1 ½ in	300 ft.	2,600 lb	Black/Yellow	Coil	**45AU93**
	1 in	600 ft.	1,220 lb	Black/Orange	Spool	**45AV46**
	1 in	600 ft.	1,220 lb	Yellow	Spool	**45AV54**
	1 in	600 ft.	1,220 lb	Black/Yellow	Spool	**45AV60**
	1 ¼ in	600 ft.	1,294 lb	Tan	Reel	**35MP11**
	1 ¼ in	600 ft.	1,850 lb	Yellow	Spool	**45AV52**
	1 ½ in	600 ft.	2,640 lb	Yellow	Spool	**45AV37**
	2 in	300 ft.	6,000 lb	White	Spool	**45AU76**

45AU84

45AV11

45AV06

Rigging Rope

Light-duty polyester solid braid rigging rope is made from economically priced biodegradable fiber yarn, braided into a smooth round rope. Loses no strength when wet.

Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
Braid						
⅛ in	600 ft.	White	2,000 lb	200 lb	Spool	**45AU84**
3⁄16 in	50 ft.	White	280 lb	28 lb	Hank	**45AV18**
	600 ft.	White	3,000 lb	300 lb	Spool	**45AV41**
7⁄32 in	100 ft.	White	260 lb	26 lb	Bag	**45AV11**
Twisted						
¼ in	600 ft.	White	1,695 lb	160 lb	Spool	**45AV50**
⅜ in	600 ft.	White	3,567 lb	350 lb	Spool	**45AV59**
½ in	600 ft.	White	7,059 lb	700 lb	Spool	**45AV06**
⅝ in	600 ft.	White	10,537 lb	1,000 lb	Spool	**45AV29**
¾ in	600 ft.	White	13,489 lb	1,320 lb	Spool	**45AV65**
1 in	600 ft.	White	28,141 lb	2,800 lb	Spool	**45AV58**

Cotton
35MP10

Jute
45AU75

Twine

Use for a variety of light-duty bundling and binding applications.

Natural Fiber—Including cotton and jute, is biodegradable and has a slightly lower cost. Excellent for parcel shipping, meatpacking and food service, and sewing applications.

Synthetic—Including nylon and polypropylene, offers high resistance to abrasion, rot, mildew, and chemicals. Commonly used in more demanding applications, such as lumberyard binding and bundling, manufacturing, and fishing.

Rope Construction	Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
Natural Fiber							
Cotton							
Plies	1/16 in	370 ft.	White	20 lb	2 lb	Spool	**45AV48**
Twisted	1/16 in	300 ft.	White	40 lb	4 lb	Spool	**45AV01**
	1/16 in	400 ft.	Cream	24 lb	2 lb	Ball	**12U297**
	1/16 in	400 ft.	White	100 lb	10 lb	Tube	**35MP21**
	5/64 in	300 ft.	White	120 lb	10 lb	Tube	**35MP10**
Jute							
Plies	1/16 in	140 ft.	Manila	40 lb	4 lb	Spool	**45AU75**
	1/16 in	140 ft.	Green	40 lb	4 lb	Spool	**45AV12**
Synthetic Fiber							
Nylon							
Twisted	1/16 in	250 ft.	Orange	100 lb	10 lb	Tube	**35MP19**
	1/16 in	250 ft.	White	100 lb	10 lb	Tube	**35MP20**
	1/16 in	525 ft.	White	150 lb	27 lb	Tube	**12U291**
	1/16 in	525 ft.	Orange	150 lb	27 lb	Tube	**12U292**
	1/16 in	525 ft.	Opti-Brite Yellow	150 lb	27 lb	Tube	**12U293**
	1/16 in	1050 ft.	White	150 lb	27 lb	Tube	**12U295**
	1/16 in	1050 ft.	Opti-Brite Yellow	150 lb	27 lb	Tube	**12U294**
	1/16 in	1050 ft.	Orange	150 lb	27 lb	Tube	**12U296**
Polyester							
Solid Braid	3/16 in	500 ft.	White	800 lb	160 lb	Spool	**20TL67**
Polypropylene							
Filament Twine	1/16 in	6000 ft.	Green/White	210 lb	21 lb	Bucket	**35MN89**
	1/16 in	6500 ft.	Green/White	210 lb	21 lb	Bucket	**35MN90**
Plies	1/16 in	160 ft.	White	140 lb	14 lb	Spool	**45AV20**
	1/16 in	3000 ft.	White	400 lb	40 lb	Carton	**45AV36**
	1/16 in	4500 ft.	White	256 lb	25 lb	Carton	**45AV53**
	1/16 in	9000 ft.	White	136 lb	10 lb	Carton	**45AV66**
Twisted	1/16 in	6500 ft.	Green/White	210 lb	21 lb	Ball	**45UG37**
	1/8 in	6500 ft.	Blue/White	210 lb	42 lb	Bucket	**12W347**

Nylon
35MP19

Polyester
20TL67

Nylon
12U292

Polypropylene
45UG37

Weeping Cord

Made of 100% premium solid braid cotton with no polypropylene core; soft for hand use. Excellent water absorption wick. Knots well.

Rope Dia.	L	Color	Tensile Strength	Working Load Limit	Package Type	Item No.
7/32 in	100 ft.	Natural	100 lb	20 lb	Hank	**20TL83**
1/4 in	100 ft.	Natural	120 lb	20 lb	Hank	**20TL86**
5/16 in	100 ft.	Natural	220 lb	40 lb	Hank	**20TL81**
3/8 in	100 ft.	Natural	300 lb	60 lb	Hank	**20TL84**
1/2 in	100 ft.	Natural	400 lb	80 lb	Hank	**20TL82**

20TL83

Rescue Rope

STERLING

HTP Static—100% High-Tenacity Polyester (HTP) kernmantle construction gives this rope extremely low stretch and excellent durability, making it ideal for tower construction, raising systems, and industrial safety projects. Polyester also resists moisture and UV degradation. Certified to NFPA 1983:2012.

SuperStatic—High-angle, technical rescue rope designed for rescue system mainlines and belays. 41/59 sheath/core ratio. Ideal for all types of technical rescue, confined space rescue, USAR, and industrial safety applications. 100% nylon, low-stretch kernmantle certified to NFPA 1983:2012.

Rope Dia.	Tensile Strength	Color	150 ft. L Item No.	200 ft. L Item No.	300 ft. L Item No.	600 ft. L Item No.
HTP Static						
3/8 in	5,979 lb	Black	**40L877**	**40L878**	**40L879**	—
3/8 in	5,979 lb	White	—	—	—	**40L880**
7/16 in	6,856 lb	Red	**40L873**	**40L874**	**40L875**	**40L876**
1/2 in	9,081 lb	Blue	**40L869**	**40L870**	**40L871**	**40L872**
5/8 in	12,993 lb	White	**40L865**	**40L866**	**40L867**	**40L868**
SuperStatic						
3/8 in	5,170 lb	Blue	**40L889**	**40L890**	**40L891**	**40L892**
7/16 in	6,519 lb	Orange	**40L885**	**40L886**	**40L887**	**40L888**
1/2 in	9,284 lb	Yellow	**40L881**	**40L882**	**40L883**	**40L884**

40L865

40L889

Rigging Line (Bull Rope)

Climbing Line

Throw Line

ALLGEAR

Arborist Rope

Rigging Line Rope (Bull Rope)—Double braid composite has a polyester jacket and nylon core. Urethane-coated, abrasion-resistant rope knots well.

Climbing Line Rope—Premium polyester construction. Good for tree climbing and no-pulley rigging. Knots well.

Throw Line—3LAW1 and 12A632 to 12A634 are made from 100% Dyneema. Smooth braided line with a high-tensile strength. Extremely slick. 3LAW2 and 12A631 are made of 100% braided polyethylene.

Rope Dia.	L	Tensile Strength	Working Load Limit	Color	Package Type	Brand	Item No.
Rigging Line Rope (Bull Rope)							
Double Braid							
½ in	150 ft.	9,500 lb	1,900 lb	Blue	Bag	All Gear	3VAH7
	150 ft.	7,800 lb	1,560 lb	Blue/Green Tracer	Spool	—	20TL65
	600 ft.	9,500 lb	1,900 lb	Blue	Reel	All Gear	12A614
	600 ft.	7,800 lb	1,560 lb	Blue/Green Tracer	Spool	—	20TL66
9/16 in	150 ft.	14,000 lb	2,800 lb	Yellow	Bag	All Gear	3VAH8
	600 ft.	14,000 lb	2,800 lb	Yellow	Reel	All Gear	3VAK3
⅝ in	150 ft.	18,000 lb	3,600 lb	Red	Bag	All Gear	3VAJ9
	600 ft.	18,000 lb	3,600 lb	Red	Reel	All Gear	12A615
¾ in	150 ft.	23,000 lb	4,600 lb	Orange	Bag	All Gear	3VAK1
	600 ft.	23,000 lb	4,600 lb	Orange	Reel	All Gear	3VAK4
⅞ in	150 ft.	32,000 lb	6,400 lb	Green	Reel	All Gear	3VAK2
Twisted							
⅝ in	150 ft.	8,100 lb	1,620 lb	Blue/Red/White Tracer	Hank	—	20TL64
Climbing Line Rope							
Diamond Braid							
7/16 in	120 ft.	6,300 lb	630 lb	Black/Blue/Green/Yellow	Bag	—	20TL55
	120 ft.	6,300 lb	630 lb	Black/Orange/Yellow	Bag	—	20TL57
	150 ft.	5,800 lb	580 lb	Blue/Green	Bag	—	20TL45
	600 ft.	6,300 lb	630 lb	Black/Blue/Green/Yellow	Spool	—	20TL56
	600 ft.	6,300 lb	630 lb	Black/Orange/Yellow	Spool	—	20TL58
½ in	120 ft.	7,300 lb	730 lb	Red/White Tracer	Bag	—	20TL46
	120 ft.	7,300 lb	730 lb	Green/White/Yellow	Bag	—	20TL51
	120 ft.	7,500 lb	750 lb	Orange/Yellow	Bag	—	20TL60
	150 ft.	7,300 lb	730 lb	Red/White Tracer	Bag	—	20TL47
	150 ft.	7,300 lb	730 lb	Orange/Red/Yellow	Bag	—	20TL41
	150 ft.	7,300 lb	730 lb	Green/White/Yellow	Bag	—	20TL52
	150 ft.	7,500 lb	750 lb	Orange/Yellow	Bag	—	20TL61
	150 ft.	8,200 lb	820 lb	Red/Yellow Checker	Bag	—	20TL68
	150 ft.	8,200 lb	820 lb	Black Checker/Yellow	Bag	—	20TL69
	600 ft.	7,300 lb	730 lb	Red/White Tracer	Spool	—	20TL48
	600 ft.	7,300 lb	730 lb	Orange/Red/Yellow	Spool	—	20TL43
⅝ in	150 ft.	11,000 lb	1,100 lb	Red/White Tracer	Spool	—	20TL62
Double Braid							
½ in	150 ft.	7,500 lb	750 lb	Blue/Neon Green/Yellow	Bag	All Gear	3VAH2
	600 ft.	7,500 lb	750 lb	Blue/Neon Green/Yellow	Reel	All Gear	12A616
Throw Line							
Hollow Braid							
1/16 in	180 ft.	450 lb	66 lb	Safety Orange	Spool	All Gear	3LAW1
	1000 ft.	450 lb	90 lb	Safety Orange	Spool	All Gear	12A632
5/64 in	180 ft.	650 lb	130 lb	Safety Orange	Spool	All Gear	12A633
	1000 ft.	650 lb	130 lb	Safety Orange	Spool	All Gear	12A634
⅛ in	200 ft.	250 lb	50 lb	Neon Orange/Yellow	Spool	All Gear	3LAW2
	1000 ft.	250 lb	50 lb	Neon Orange/Yellow	Spool	All Gear	12A631

40L923

STERLING

Marathon Dynamic Rope

11mm rope is constructed with a thick sheath for long-lasting performance. Designed for military, rope course, high-abuse guiding, work access, rigging, and industrial safety applications.

Rope Dia.	L	Working Load Limit	Color	Item No.
7/16 in	164 ft.	310 lb	Purple	40L923
7/16 in	196 ft.	310 lb	Purple	40L924

PETZL

Kernmantle Ropes

- Meet NFPA 1983

Vector 12.5mm static rope is designed for fire rescue teams, with low stretch and large diameter for strength and handling when manipulating heavy loads, even in conditions such as water, dust, and mud.

L	Item No.
200 ft.	405F65
600 ft.	405F68

6TEL1

PETZL

Anchor Straps and Foot Loop

Anchor straps have sewn webbing loop for easy anchoring. Foot loop features adjustable webbing; underfoot strap resists abrasion and is slightly rigid to allow easy access.

Description	L	Item No.
Anchor Straps	23 ⅗ in	6TEK9
	47 ¼ in	6TEK7
	59 in	6TEK8
Foot Loop	—	6TEL1

POLAR PLASTICS INC.

Plastic Construction Film

High-strength polyethylene resin film.

Thickness	W	L	Color	Item No.
1 mil	9 ft	250 ft	Clear	15J251
1.5 mil	8 ft 4 in	200 ft	Clear	4JX91
1.5 mil	10 ft	200 ft	Clear	21XR49
1.5 mil	12 ft	200 ft	Clear	21XR50
1.5 mil	20 ft	200 ft	Clear	21XR48
2 mil	10 ft	100 ft	Clear	15J255
3 mil	6 ft	100 ft	Clear	21XR51
3 mil	8 ft 4 in	100 ft	Clear	15J262
3 mil	10 ft	25 ft	Clear	15J252
3 mil	10 ft	100 ft	Clear	15J256
3 mil	12 ft	100 ft	Clear	15J257
3 mil	20 ft	100 ft	Clear	15J260
4 mil	6 ft	100 ft	Clear	15J261
4 mil	6 ft	100 ft	Black	21XR58
4 mil	6 ft	100 ft	White	21XR59
4 mil	8 ft 4 in	25 ft	Clear	21XR52
4 mil	8 ft 4 in	100 ft	Clear	4JX92
4 mil	8 ft 4 in	100 ft	Black	21XR53
4 mil	8 ft 4 in	100 ft	White	21XR54
4 mil	10 ft	100 ft	Clear	4JX87
4 mil	10 ft	100 ft	Black	6FLZ4
4 mil	10 ft	100 ft	White	6FLZ6
4 mil	12 ft	100 ft	Clear	15J258
4 mil	12 ft	100 ft	Black	21XR55
4 mil	12 ft	100 ft	White	21XR56
4 mil	12 ft	100 ft	Clear	21XR64
4 mil	16 ft	100 ft	Clear	15J259
4 mil	20 ft	100 ft	Black	4JX85
4 mil	20 ft	100 ft	Clear	4JX89
4 mil	20 ft	100 ft	White	21XR57
4 mil	20 ft	50 ft	Clear	21XR65
6 mil	8 ft 4 in	100 ft	Clear	15J263
6 mil	8 ft 4 in	100 ft	Black	21XR60
6 mil	8 ft 4 in	100 ft	White	21XR61
6 mil	10 ft	100 ft	Black	6FLZ5
6 mil	10 ft	100 ft	White	6FLZ7
6 mil	10 ft	100 ft	Clear	4JX88
6 mil	12 ft	100 ft	Clear	21XR62
6 mil	20 ft	100 ft	Black	4JX86
6 mil	20 ft	100 ft	Clear	4JX90
10 mil	20 ft	100 ft	Clear	21XR63

Plasticover
TRIMACO

Carpet Protection Film and Applicators

Carpet Film Applicator w/Film

CARPET PROTECTION FILM

Self-adhesive clear film applies quickly and removes easily to protect carpets during construction, renovation, and event traffic. Nonslip surface grips carpet firmly to promote safety. Tear-resistant film can be left in place for up to 60 days.

ADJUSTABLE FILM APPLICATORS

Roller design allows for fast application. Steel construction adjusts to fit various sizes.

W	Brand	200 ft Item No.	500 ft Item No.
Carpet Protection Film			
24 in	Plasticover	2NYH7	2NYJ1
36 in	Plasticover	2NYH9	2NYH6
48 in	Plasticover	—	2NYH8
Carpet Film Applicator			
Adjustable, For Use with 24 in , 30 in or 36 in Rolls	Trimaco	52MU69	
Adjustable, For Use With 24", 36", and 48" Rolls	Plasticover	18F254	

Americover

String-Reinforced Construction Film

High-strength virgin polyethylene resin film reinforced with polyester scrim for enhanced tear resistance.

Thickness	W	L	Color	Item No.
String Reinforced Poly Sheeting				
6 mil	12 ft	100 ft	Clear	6HHZ7
6 mil	20 ft	100 ft	Clear	6HHZ8
NFPA Certified Fire-Retardant Poly Sheeting				
6 mil	12 ft	100 ft	Off-White	6HHZ9
6 mil	20 ft	100 ft	Off-White	6HJA0

Americover

Antistatic Fire-Retardant Poly Sheeting

Superior dust containment for healthcare environments. White color. Sold on a roll. Fire Standards are printed in red directly on the film. Meet NFPA 701-2015 Standards.

Thickness	W	L	Item No.
6 mil	12 ft	100 ft	4FPK8
6 mil	20 ft	100 ft	4FPK9

Plasticover

Floor Protection Mats

45MT84 Mat shown on 45MT87 Base

Sticky surface removes dirt and debris from shoes to eliminate damage to interior surfaces. When the mat is dirty, the top layer can be removed to expose a fresh surface. Adhesive backing sticks to clean, smooth floors to stay in place. Each mat has 30 numbered sheets and are packed 2 per box.

FLOOR PROTECTION MAT BASE

Recommended base provides a secure mounting surface for the mats in dusty conditions and enables portability to multiple locations. Nonskid backing.

Material	W	L	Color	Item No.
Mats				
Polyethylene	18 in	36 in	Blue	45MT86
Polyethylene	18 in	36 in	White	45MT85
Polyethylene	24 in	36 in	Blue	45MT84
Polyethylene	24 in	36 in	White	45MT83
Base				
HDPE	25 in	37 in	White	45MT87

Americover

Fire-Retardant Deck Covers

Heavy-duty, reusable blue polyethylene sheeting protects floors and decks during construction, refit, and new build. Film can easily be cut, sized, and taped down in place. Smooth bottom side eliminates pattern imprinting as can occur with embossed films. Matte side is antislip and antiskid. Meet NFPA 701.

Thickness	W	L	Item No.
14 mil	36 in	150 ft	6DLR6
30 mil	36 in	100 ft	6DLR7

Americover

Rapid Wall Cover

Clings to surfaces. Quick-and-easy to install because the tape is already attached to the poly. Replaces the traditional tape and poly method.

Thickness	W	L	Item No.
2 mil	10 ft	100 ft	39J395

Floor Protection Film

Temporary Floor Protection Board

Reinforced Kraft Paper

Plasticover™ TRIMACO

Floor and Multisurface Protection

Floor Protection Film—Temporary, self-adhesive film protects multiple surfaces including tile, vinyl, hardwood, VCT, laminates, marble, granite, countertops, and factory-finished hardwood. Applies quickly and removes easily. Can be left in place for up to 60 days.

Reinforced Kraft Paper—Nonadhesive, waterproof, tear-resistant paper can be taped down to protect virtually any surface. Heavy-duty kraft paper is bonded with polyethylene and reinforced threading provides durability for long-term usage.

Temporary Floor Protection Board—Nonadhesive fiber paper board protects against scratches and impact. Recycled content may qualify builder for LEED points.

W	L	Color	Brand	Item No.
Floor Protection Film				
24 in	200 ft	Blue	Plasticover	**2NYJ3**
30 in	100 ft	White	Plasticover	**45MT88**
30 in	100 ft	Gray	Plasticover	**45MT89**
36 in	200 ft	Blue	Plasticover	**4GHW8**
Reinforced Kraft Paper				
36 in	200 ft	Brown	Plasticover	**5NAL7**
Temporary Floor Protection Board				
38 in	100 ft	Brown	Trimaco	**52MU68**

Red Rosin
30KE55

Brown Rosin
45MT90

Plasticover™

Rosin Paper

High-quality, single-ply protection paper is commonly used to protect floors, windows, counter tops, fixtures, and many other surfaces during construction and remodeling. It can be applied as an inner lining, "sheathing paper" in walls, roofing, or wood flooring applications to protect against wind and dust infiltration, while minimizing squeaks.

Available in standard red or brown (for dye leakage concerns in wet applications).

W	L	Color	Item No.
36 in	200 ft	Red	**30KE55**
36 in	200 ft	Brown	**45MT90**

Mesh Tarps

Windscreen Fence and Mesh Tarps

Polyethylene windscreen fence offers 95% shade while allowing air passage. Mesh tarps act as windscreens. Feature reinforced wide web binding and grommets every 24" including top, bottom, and sides. 10 mil thickness, 5.4 oz. per sq. yd. polyester.

Cut Size	▶CHOOSE: Color	Item No.
Windscreen Fence		
4 x 165 ft	Black, Tan	**G8805**
Mesh Tarps		
6 x 8 ft	Black, Green, Tan	**G8814**
8 x 12 ft	Black, Green, Tan	**G8806**
10 x 12 ft	Black, Green, Tan	**G8815**
10 x 20 ft	Black, Green, Tan	**G8816**
10 x 24 ft	Black, Tan	**G8807**
10 x 30 ft	Black, Tan	**G8808**
12 x 14 ft	Black, Tan	**G8809**
12 x 16 ft	Black, Green	**G8810**
12 x 20 ft	Black, Green, Tan	**G8811**
12 x 24 ft	Black, Green, Tan	**G8817**
14 x 24 ft	Black	**G8812**
20 x 20 ft	Black, Green, Tan	**G8813**

5WUF1

Hay Covers

12 mil thick polyethylene tarps resist water, mildew, and UV rays to protect hay bales from harmful weather. Heat-sealed seams with brass grommets. Silver/black color.

Cut Size	Finished Size	Item No.
15 x 54 ft	14 ft 6 in x 53 ft 8 in	**5WUF1**
20 x 48 ft	19 ft 6 in x 47 ft 8 in	**5WUF2**
25 x 48 ft	24 ft 6 in x 47 ft 8 in	**5WUF3**
30 x 48 ft	29 ft 6 in x 47 ft 8 in	**5WUF4**
35 x 48 ft	34 ft 6 in x 47 ft 8 in	**5WUF5**
45 x 48 ft	44 ft 6 in x 47 ft 8 in	**5WUF6**
48 x 55 ft	54 ft 6 in x 47 ft 8 in	**5WUF7**
60 x 48 ft	59 ft 6 in x 47 ft 8 in	**5WUF8**

2HCW5

3ZRT8

Machine and Pallet Covers

Cotton sheeting is coated with plastisol, allowing it to breathe while remaining water-resistant. Perimeter is roll-hemmed with magnets at the corners. Machine covers are gray color. Pallet covers are silver/black color.

Finished Size	Item No.
HTC Machine Cover Tarp	
2 ft 3 in x 3 ft	**2HCW3**
3 ft x 4 ft 8 in	**2HCW2**
4 ft 8 in x 6 ft	**2HCW4**
6 ft. x 9 ft 4 in	**2HCW5**
Pallet Cover	
3 ft. x 4 ft. x 4 ft.	**3ZRT8**
3 ft. x 4 ft. x 6 ft.	**3ZRT9**
4 ft. x 4 ft. x 4 ft.	**3ZRU1**
4 ft. x 4 ft. x 6 ft.	**3ZRU2**

Tarps

MAURITZON

STANDARD-DUTY POLYETHYLENE
- Resist UV rays, mildew, and tears
- Rustproof aluminum grommets approximately every 36"

Made from high-density 10 x 10 weave (1000 denier). Lightweight fabric weighs only 3.4 oz. per sq. yd., wet or dry. Seams are heat-sealed with polyethylene rope-lined hems.

Flame-resistant style will not support combustion.

HEAVY-DUTY POLYETHYLENE
- Superior resistance to UV rays, water, mildew, and tears
- Rustproof aluminum grommets approximately every 18"
- Reinforced corners

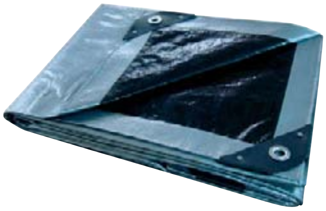
Made from super-strong 5.4 oz. per sq. yd. heavy-gauge material. Durable 14 x 14 weave (1000 denier).

WATERPROOF VINYL
- Superior resistance to UV rays, tears, and water
- Nickel-plated brass and D-ring grommets approximately every 24"

Lighter than canvas and nonabsorbent. Made from 13 oz. per sq. yd. material and suitable for long-term outdoor use covering trucks, boats, and equipment.

Fire-resistant style will not support combustion.

Heavy-duty models are made from 18 oz. per sq. yd. material for premium resistance to abrasion and punctures.



5WTN5

5WTT7

5WUE7

Tarp Strength	Cut Size	Finished Size	Thickness	▶CHOOSE: Color	Brand	Item No.
Waterproof Polyethylene						
Flame-Resistant, Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	10 x 12 ft	9 ft 6 in x 11 ft 4 in	5.1 mil	Blue	—	**5WTL9**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	5.1 mil	White	—	**5WTN0**
	10 x 20 ft	9 ft 4 in x 19 ft 6 in	5.1 mil	Blue	—	**2ZJ47**
	10 x 20 ft	9 ft 4 in x 19 ft 6 in	5.1 mil	White	—	**5WTN1**
	15 x 20 ft	14 ft 2 in x 19 ft 6 in	5.1 mil	White	—	**5WTN2**
	15 x 20 ft	14 ft 2 in x 19 ft 6 in	5.1 mil	Blue	—	**2ZJ48**
	20 x 20 ft	19 ft x 19 ft 6 in	5.1 mil	Blue	—	**2ZJ49**
	20 x 20 ft	19 ft x 19 ft 6 in	5.1 mil	White	—	**5WTN3**
	20 x 30 ft	19 ft x 29 ft 4 in	5.1 mil	Blue	—	**2ZJ50**
	20 x 30 ft	19 ft x 29 ft 4 in	5.1 mil	White	—	**5WTN4**
Grease-Resistant, Mildew-Resistant						
Heavy Duty	10 x 12 ft	9 ft 9 in x 11 ft 8 in	12 mil	Silver/Black	Mauritzon	**8C604**
	12 x 15 ft	11 ft 8 in x 14 ft 9 in	12 mil	Silver/Black	Mauritzon	**8UKW5**
	12 x 20 ft	11 ft8 in x 19 ft 9 in	12 mil	Silver/Black	Mauritzon	**9EVK9**
	12 x 24 ft	11 ft 8 in x 23 ft 9 in	12 mil	Silver/Black	Mauritzon	**9T025**
Mildew-Resistant, Tear-Resistant						
Standard Duty	6 x 8 ft	5 ft 6 in x 7 ft 6 in	3.2 mil	Blue	—	**22JC25**
	8 x 10 ft	7 ft 4 in x 9 ft 6 in	3.2 mil	Blue	—	**22JC26**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	3.2 mil	Blue	—	**22JC27**
	12 x 16 ft	11 ft 4 in x 15 ft 6 in	3.2 mil	Blue	—	**22JC28**
	15 x 20 ft	14 ft 2 in x 19 ft 6 in	3.2 mil	Blue	—	**22JC29**
	20 x 30 ft	19ft 10 in x 29 ft 4 in	3.2 mil	Blue	—	**22JC30**
	25 x 40 ft	23 ft 10 in x 39 ft 4 in	3.2 mil	Blue	—	**22JC31**
	30 x 50 ft	28 ft 10 in x 49 ft 2 in	3.2 mil	Blue	—	**22JC32**
	40 x 60 ft	38 ft 6 in x 59 ft	3.2 mil	Blue	—	**22JC33**
Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	6 x 8 ft	5 ft 6 in x 7 ft 6 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8818**
	8 x 10 ft	7 ft 4 in x 9 ft 6 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8819**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8820**
	12 x 16 ft	11 ft 4 in x 15 ft 6 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8821**
	12 x 20 ft	11 ft 8 in x 19 ft 6 in	0.1875 in	Orange	—	**5WUE7**
	12 x 25 ft	11 ft 4 in x 24 ft 4 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8822**
	15 x 20 ft	14 ft 2 in x 19 ft 6 in	5.1 mil	Blue Top/Green Back, Transparent, Brown/Black	—	**G8823**
	20 x 20 ft	19 ft x 19 ft 6 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8825**
	20 x 30 ft	19 ft x 29 ft 4 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8824**
	25 x 40 ft	23 ft 10 in x 39 ft 4 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8826**
	30 x 50 ft	28 ft 10 in x 49 ft 2 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8827**
	40 x 60 ft	38 ft 6 in x 59 ft	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8828**
	50 x 80 ft	48 ft x 79 ft 4 in	5.1 mil	Blue/Green, Brown/ Black, Transparent	—	**G8829**
Heavy Duty	6 x 8 ft	5 ft 6 in x 7 ft 6 in	10.5 mil	Silver/Black	—	**2ZJ45**
	8 x 10 ft	7 ft 4 in x 9 ft 6 in	10.5 mil	Silver/Black	—	**5WTN5**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	10.5 mil	Silver/Black	—	**4VZ56**
	12 x 16 ft	11 ft 4 in x 15 ft 6 in	10.5 mil	Silver/Black	—	**2ZJ46**
	12 x 20 ft	11 ft 4 in x 19 ft 6 in	10.5 mil	Silver/Black	—	**5WTN6**
	12 x 25 ft	11 ft 4 in x 24 ft 4 in	10.5 mil	Silver/Black	—	**5WTN7**
	15 x 30 ft	14 ft 2 in x 29 ft 4 in	10.5 mil	Silver/Black	—	**5WTN8**
	16 x 20 ft	15 ft 2 in x 19 ft 6 in	10.5 mil	Silver/Black	—	**4VZ57**
	20 x 20 ft	19 ft x 19 ft 6 in	10.5 mil	Silver/Black	—	**5WTN9**
	20 x 30 ft	19 ft x 29 ft 4 in	10.5 mil	Silver/Black	—	**4VZ58**
	40 x 40 ft	38 ft 6 in x 39 ft 4 in	10.5 mil	Silver/Black	—	**5WTP0**
Waterproof Vinyl						
Flame-Resistant, Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	8 x 10 ft	7 ft 4 in x 9 ft 6 in	15 mil	Black/Green	—	**5WTW5**
	8 x 10 ft	7 ft 4 in x 9 ft 6 in	15 mil	White	—	**5WTW6**
	20 x 20 ft	19 ft x 19 ft 6 in	15 mil	White	—	**5WTW9**
	20 x 30 ft	19 ft x 29 ft 4 in	15 mil	White	—	**5WTX0**

Tarp Strength	Cut Size	Finished Size	Thickness	▶CHOOSE: Color	Brand	Item No.
Mildew-Resistant, Tear-Resistant, UV-Resistant						
Standard Duty	6 x 8 ft	5 ft 6 in x 7 ft 6 in	15 mil	Black/Green	—	**2ZJ56**
	6 x 10 ft	5ft 6 in x 9ft 6 in	15 mil	Black/Green	—	**2ZJ57**
	10 x 10 ft	9 ft 4 in x 9 ft 6 in	15 mil	Black/Green	—	**2ZJ58**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	15 mil	Black/Green	—	**2ZJ59**
	12 x 16 ft	11 ft 4 in x 15 ft 6 in	15 mil	Black/Green	—	**2ZJ60**
	16 x 20 ft	15 ft 2 in x 19 ft 6 in	15 mil	Black/Green	—	**2ZJ61**
	20 x 20 ft	19 ft x 19 ft 6 in	15 mil	Black/Green	—	**2ZJ62**
	20 x 30 ft	19 ft x 29 ft 4 in	15 mil	Black/Green	—	**2ZJ63**
Heavy Duty	6 x 8 ft	5 ft 6 in x 7 ft 6 in	20 mil	Black	—	**5WTX1**
	6 x 10 ft	5 ft 6 in x 9 ft 6 in	20 mil	Black, Tan	—	**G8845**
	8 x 10 ft	7 ft 4 in x 9 ft 6 in	20 mil	Black, Tan	—	**G8846**
	10 x 10 ft	9 ft 4 in x 9 ft 6 in	20 mil	Black, Tan	—	**G8847**
	10 x 12 ft	9 ft 6 in x 11 ft 4 in	20 mil	Black, Tan	—	**G8848**
	12 x 16 ft	11 ft 4 in x 15 ft 6 in	20 mil	Black, Tan	—	**G8849**
	12 x 20 ft	11 ft 4 in x 19 ft 6 in	20 mil	Black	—	**5WTY9**
	12 x 24 ft	11 ft 4 in x 23 ft 6 in	20 mil	Black, Tan	—	**G8850**
	12 x 25 ft	24 ft 6 in x 11 ft 4 in	20 mil	Black	—	**5WTZ1**
	14 x 20 ft	19 ft 6 in x 13 ft 4 in	20 mil	Black	—	**5WTZ0**
	14 x 25 ft	24 ft 6 in x 13 ft 4 in	20 mil	Black	—	**5WTZ2**
	16 x 20 ft	15 ft 2 in x 19 ft 6 in	20 mil	Black, Tan	—	**G8851**
	20 x 30 ft	19 ft x 29 ft 4 in	20 mil	Black	—	**G8852**
	20 x 30 ft	—	20 mil	Tan	—	**G8852**
Water Resistant Cotton Canvas						
Flame-Resistant, Mildew-Resistant						
Standard Duty	4 x 8 ft	3 ft 6 in x 7 ft 6 in	20 mil	Green	—	**10P540**
	4 x 12 ft	3 ft 6 in x 11 ft 6 in	20 mil	Green	—	**10P541**
	6 x 8 ft	5 ft 6 in x 7 ft 6 in	20 mil	Green	—	**10P542**
	6 x 10 ft	5 ft 6 in x 9 ft 6 in	20 mil	Green	—	**10P543**
	8 x 10 ft	7 ft 6 in x 9 ft 6 in	20 mil	Green	—	**10P544**
	8 x 16 ft	7 ft 6 in x 15 ft 6 in	20 mil	Green	—	**10P545**
	8 x 20 ft	7 ft 6 in x 19 ft 6 in	20 mil	Green	—	**10P546**
	10 x 12 ft	9 ft 6 in x 11 ft 6 in	20 mil	Green	—	**10P547**
	10 x 20 ft	9 ft 6 in x 19 ft 6 in	20 mil	Green	—	**10P548**
	12 x 16 ft	11 ft 6 in x 15 ft 6 in	20 mil	Green	—	**10P549**
	15 x 20 ft	14 ft 6 in x 19 ft 6 in	20 mil	Green	—	**10P550**
	16 x 24 ft	15 ft 6 in x 23 ft 6 in	20 mil	Green	—	**10P551**
	20 x 20 ft	19 ft 6 in x 19 ft 6 in	20 mil	Green	—	**10P552**
	20 x 30 ft	19 ft 6 in x 29 ft 6 in	20 mil	Green	—	**10P553**
Mildew-Resistant, UV-Resistant						
Heavy Duty	4 x 8 ft	3 ft 6 in x 7 ft 6 in	30 mil	Olive Green	—	**5WTT7**
	4 x 12 ft	3 ft 6 in x 11 ft 6 in	30 mil	Olive Green	—	**5WTT8**
	6 x 8 ft	5 ft 6 in x 7 ft 6 in	30 mil	Olive Green	—	**5WTT9**
	6 x 10 ft	5 ft 6 in x 9 ft 6 in	30 mil	Olive Green	—	**5WTU0**
	8 x 10 ft	7 ft 6 in x 9 ft 6 in	30 mil	Olive Green	—	**5WTU1**
	8 x 16 ft	7 ft 6 in x 15 ft 6 in	30 mil	Olive Green	—	**5WTU2**
	8 x 20 ft	7 ft 6 in x 19 ft 6 in	30 mil	Olive Green	—	**5WTU3**
	10 x 12 ft	9 ft 6 in x 11 ft 6 in	30 mil	Olive Green	—	**5WTU4**
	10 x 20 ft	9 ft 6 in x 19 ft 6 in	30 mil	Olive Green	—	**5WTU5**
	12 x 16 ft	11 ft 6 in x 15 ft 6 in	30 mil	Olive Green	—	**5WTU6**
	15 x 20 ft	14 ft 6 in x 19 ft 6 in	30 mil	Olive Green	—	**5WTU7**
	16 x 24 ft	15 ft 6 in x 23 ft 6 in	30 mil	Olive Green	—	**5WTU8**
	20 x 20 ft	19 ft 6 in x 19 ft 6 in	30 mil	Olive Green	—	**5WTU9**
	20 x 30 ft	19 ft 6 in x 29 ft 6 in	30 mil	Olive Green	—	**5WTV0**
Water Resistant Polyester Coated Cotton Canvas						
Mildew-Resistant						
Standard Duty	4 x 8 ft	3 ft 6 in x 7 ft 6 in	15 mil	Jade Green	—	**10P554**
	6 x 8 ft	5 ft 6 in x 7 ft 6 in	15 mil	Jade Green	—	**10P556**
	8 x 10 ft	7 ft 6 in x 9 ft 6 in	30 mil	Jade Green	—	**10P558**
	8 x 20 ft	7 ft 6 in x 19 ft 6 in	15 mil	Jade Green	—	**10P560**
	10 x 12 ft	9 ft 6 in x 11 ft 6 in	15 mil	Jade Green	—	**10P561**
	10 x 20 ft	9 ft 6 in x 19 ft 6 in	15 mil	Jade Green	—	**10P562**
	12 x 16 ft	11 ft 6 in x 15 ft 6 in	15 mil	Jade Green	—	**10P563**
	15 x 20 ft	14 ft 6 in x 19 ft 6 in	15 mil	Jade Green	—	**10P564**
	16 x 24 ft	15 ft 6 in x 23 ft 6 in	15 mil	Jade Green	—	**10P565**
	20 x 20 ft	19 ft 6 in x 19 ft 6 in	30 mil	Jade Green	—	**10P566**
	20 x 30 ft	19 ft 6 in x 29 ft 6 in	15 mil	Jade Green	—	**10P567**

4HXC8

4HXD6

14A751

Description	L	Color	Brand	Item No.
Adjustable Tarp Straps				
EPDM Tarp Strap	24 in	Black	Keeper	**39J421**
	36 in	Black	Keeper	**39J422**
Tarp Straps				
EPDM Tarp Strap	10 in	Black	Goldline	**14J847**
	15 in	Black	Goldline	**14J848**
	21 in	Black	Goldline	**14J849**
	31 in	Black	Goldline	**14J850**
	41 in	Black	Goldline	**14J851**
Bungee Strap Assortment				
Assorted EPDM Tarp Straps, (4) 10 in Strap, (2) 15 in Strap, (2) 21 in Strap, and (2) 31 in Strap	31 in	Black	Goldline	**14J852**
Bungee Cords				
Industrial Bungee Cord	13 in	Black	—	**4HXD6**
	18 in	Black	—	**4HXD7**
	24 in	Black	—	**4HXE2**
	32 in	Black	—	**4HXD8**
	48 in	Black	—	**4HXE1**
Adjustable Bungee Cord	36 in	Multicolored	—	**4HXC7**
Bungee Cord Rolls				
3⁄16 in Bungee Width	100 ft	White/Black Tracer	Bulk-Strap	**14A763**
1⁄4 in Bungee Width	100 ft	White/Black Tracer	Bulk-Strap	**14A764**
5⁄16 in Bungee Width	100 ft	White/Black Tracer	Bulk-Strap	**14A765**
	250 ft	Multicolored	—	**4HXC8**
3⁄8 in Bungee Width	100 ft	White/Black Tracer	Bulk-Strap	**14A766**
	300 ft	Multicolored	—	**4HXC9**
1⁄2 in Bungee Width	100 ft	White/Black Tracer	Bulk-Strap	**14A767**

KEEPER PERFORMANCE ENGINEERED. GOLDLINE® BULK-STRAP SUPPLIER DIVERSITY®

Bungee Cords and Hooks

EPDM Tarp Straps—For heavy-duty strapping jobs. Straps stretch to approximately 1½ times their original length. Extra reinforcement at hook ends. Zinc-plated steel hooks.

Industrial Bungee Cords—Work well in most tarp applications and with heavier loads. Nylon-coated cords have hardened hooks with yellow dichromate finish.

Adjustable Bungee Cord—For light-duty bundling or tie-down assists. Safety tab on polycarbonate hook prevents slipping out of tarp grommets. ¼" dia. Length adjustable up to 36".

Bungee Cord Rolls—Multicolor bungee cords are general purpose. White cord is nylon-wrapped for greater durability

Bungee Hooks—Attach easily to make or repair cords. Includes clamping wire. Adjustable hooks require no tools to install. See hook descriptions for cord sizes.

Material	Description	Color	Brand	Item No.	Pkg. Qty.
Bungee Hooks					
Dichromate Steel	For Use With 3⁄16 in Dia Cord	Brass	Bulk-Strap	**14A751**	10
	For Use With 1⁄4 in Dia Cord	Brass	Bulk-Strap	**14A752**	10
	For Use With 5⁄16 in Dia Cord	Brass	Bulk-Strap	**14A753**	10
	For Use With 3⁄8 in Dia Cord	Brass	Bulk-Strap	**14A754**	4
	For Use With 1⁄2 in Dia Cord	Brass	Bulk-Strap	**14A755**	4
Stainless Steel	For Use With 3⁄16" dia. Cord	Silver	Bulk-Strap	**14A756**	10
	Includes C-Ring - For Use With 1⁄4" dia. Cord	Silver	Bulk-Strap	**14A757**	10
	Includes C-Ring - For Use With 5⁄16" dia. Cord	Silver	Bulk-Strap	**14A758**	10
	Includes C-Ring - For Use With 3⁄8" dia. Cord	Silver	Bulk-Strap	**14A759**	4
	Includes C-Ring - For Use With 1⁄2" dia. Cord	Silver	Bulk-Strap	**14A760**	4
Adjustable Bungee Hooks					
Co-Polymer	1¼" Width - For Use With 3⁄16" or 1⁄4" dia. Cord	Black	Bulk-Strap	**14A761**	10
	1¾" Width - For Use With 5⁄16" or 3⁄8" dia. Cord	Black	Bulk-Strap	**14A762**	10
Polycarbonate	Adjustable Bungee Hooks, For Use With 1⁄4 or 3⁄8 in Dia Cord	Black	—	**4HXD1**	50
Bungee Cord Assortment					
Nylon/Rubber	Assorted Bungee Cords, 2 Each of 13, 18, 24, 30, and 36"	Multicolored	—	**4HXF7**	10

THE BETTER BUNGEE™

Rope, Hook Ends, and Replacement Hooks

Solid Core Polyurethane Stretch Rope—Industrial strength, high-tech polyurethane stretch rope is a superior replacement to shock cord (no cloth or elastic) will not break, rot, or become brittle and maintains its stretch even under extreme weather conditions. Safely stretches two times its length. Make custom length bungee cords and cargo webs using the adjustable nylon hook ends.

Adjustable Nylon Hook Ends—Patented adjustable hook ends create safer and stronger custom bungee cords. Match hook sizes to rope size. ¼" hook has a 102-lb. break rating, 5⁄16" has a 140-lb. break rating.

Triangular S-Hook Ends—0.188" (3⁄16") galvanized or stainless steel hook with triangular S end, made for safer strap. Gale break rating of 250 lb. Stainless steel break rating of 225 lb.

Description	L	Dia.	▶CHOOSE: Color	Item No.
Solid Core Polyurethane Stretch Rope				
Bungee Cord Roll	50 ft	1⁄4 in	Black, Military Green	**J4694**
Bungee Cord Roll	50 ft	5⁄16 in	Black, Military Green	**J4695**
Bungee Cord/Strap Hook Ends				
Adjustable Nylon Hook End, For 1⁄4" Rope	4"	—	Black	**46CC08**
Adjustable Nylon Hook End, For 5⁄16" Rope	4"	—	Black	**46CC09**
Triangular S Hook, Galvanized Steel	2½"	3⁄16"	Gray	**46CC02**
Triangular S Hook, Stainless Steel	2½"	3⁄16"	Gray	**46CC03**

Rope RATCHET TIE-DOWN

Rope Tie-Downs

Secure a wide variety of loads quickly and easily.

Rope Ratchets—Keep rope locked in place for a firm hold; no webbing or bungee cords required. Thumb-lever provides easy release. Ratchets are made of 33% glass-filled nylon with interior of die-cast zinc and stainless steel springs. Hooks are zinc-plated steel.

L	Dia.	Working Load Limit	Item No.
Rope Ratchets w/ Polyester Rope			
6 ft	1⁄8 in	75 lb	**1DJN7**
8 ft	3⁄16 in	110 lb	**1DJN6**
Rope Ratchets w/ Polypropylene Rope			
8 ft	1⁄4 in	150 lb	**1DJN8**
15 ft	1⁄4 in	150 lb	**1DJN9**
8 ft	3⁄8 in	250 lb	**1DJP2**
15 ft	3⁄8 in	250 lb	**1DJP3**
8 ft	1⁄2 in	500 lb	**1DJP4**
15 ft	1⁄2 in	500 lb	**1DJP5**
Ratchets Only			
1⁄4" Ratchet			**1DJP1**
3⁄8" Ratchet			**1DJP6**

J4678

J4682

J4683

THE BETTER BUNGEE™

J4681

46CA99

Polyurethane Bungee Straps

Industrial strength polyurethane and heavy-duty hook ends make safer, stronger bungee cords and straps. High-tech, lightweight material will not break, rot, or become brittle when exposed to harsh weather elements, oils, or fuels.

Cords—Glass-filled nylon hooks are overmolded into a one-piece cord for superior performance and durability. Max. stretch is two times length. Hook ends have a 180# break rating. Synch cord has loop on one end and hook on the other.

Straps—High-tech industrial strength urethane straps are available with three types of hook ends: S-Hook 2 0.188 (3.16) galvanized steel with a 250# break rating; S-Hook stainless steel with a 225# break rating; or J-Hook fiber-filled nylon overmolded ends (rated at 180#) for nonmarring applications. Two times max. stretch. Straps with slots are adjustable to just about any size and are available with stainless steel or overmolded nylon ends.

L	▶CHOOSE: Color	Item No.
Bungee Cords		
Nylon J-Hook End		
12 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4678
18 in		J4679
24 in		J4680
Nylon J-Hook, Loop End		
30 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4681
Bungee Straps		
Galvanized Steel S-Hook End		
12 in	Black	J4682
6 in	Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4682
18 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4685
24 in		J4688
36 in		J4691
Stainless Steel S-Hook End		
12 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4684
18 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green	J4687
12 in	White	J4687
24 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4690
36 in		J4693
Nylon J-Hook End		
12 in	Black, Blue, Yellow, Red, Military Green, Orange, Safety Green, White	J4683
18 in		J4686
24 in		J4689
36 in		J4692
Bungee Straps with Slots		
Stainless Steel S-Hook End		
36 in	Black	46CA99
Nylon J-Hook End		
36 in	Black	46CC01

BULK-STRAP™ SUPPLIER DIVERSITY®

Custom Strapping, Buckles, and Fittings

CUSTOM STRAPPING

Create custom-length straps with no stitching required.

Nylon—Strong and flexible material has good elasticity and recovery. Absorbs moisture, dries easily, and is mildew- and insect-resistant.

Polypropylene—Material features excellent chemical resistance and low moisture absorption. Floats and is resistant to mildew and abrasion. For lightweight applications.

Polyester—Durable material is quick drying. Resists most chemicals, stretching and shrinking, wrinkles, mildew, and abrasion. For medium- and heavy-duty applications.

BUCKLES AND FITTINGS

Metal or plastic attach without sewing to make finished assemblies.

ANCHOR PLATES

Secure webbing to a solid surface. 1" plates have ¼" bolt hole. 1½" to 2" plates have ⅜" bolt hole. Webbing slots will accommodate 1", 1.5", and 2" webbing, offset at 128°.

G2350
(Buckle Not Included)

G2350

W	▶CHOOSE: Color	Length 27 ft Item No.	50 ft Item No.	51 ft Item No.	102 ft Item No.	150 ft Item No.	300 ft Item No.
Custom Strapping							
Nylon							
¾ in	Black, Blue, Orange, Red	G2350	—	G2351	G2352	G2353	14A772 *
1 in		G2354	—	G2355	G2356	G2357	14A773 *
1 ½ in		G2358	—	G2359	G2360	G2361	14A774 *
2 in		G2362	—	G2363	G2364	G2365	14A775 *
3 in		—	—	—	—	—	14A776 *
Polyester							
3 in	Yellow	—	53PW80	—	—	53PW81	53PW82
4 in		—	53PW83	—	—	53PW84	—
2 in		—	53PW77	—	—	53PW78	53PW79
Polypropylene							
1 in	Black, Blue, Orange, Red	—	—	G2369	G2370	—	G2371
1 ½ in		—	—	G2372	G2373	—	G2374
2 in		—	—	G2375	G2376	—	G2377
¾ in		—	—	G2366	G2367	—	G2368

Size	Material	Pkg. Qty.	Item No.
Buckles and Fittings			
Side-Squeeze Buckles			
¾ in	Plastic	10	4TLP4
1 in	Plastic	10	4TLP5
1 ½ in	Plastic	10	4TLP6
2 in	Plastic	5	4TLP7
SlideBar Buckles			
¾ in	Plastic	25	4TLP8
1 in	Plastic	25	4TLP9
1 ½ in	Plastic	25	4TLR1
2 in	Plastic	5	4TLR2
Cam Buckles			
1 in	Zinc	2	4TLT4
1 ½ in	Zinc	2	4TLT5
2 in	Zinc	2	4TLT6
1 in	Plastic	10	4TLR7
1 ½ in	Plastic	10	4TLR8
2 in	Plastic	5	4TLR9

Size	Material	Pkg. Qty.	Item No.
Slip-Lok Buckles			
1 in	Steel	10	4TLT1
1 ½ in	Steel	10	4TLT2
2 in	Steel	10	4TLT3
¾ in	Plastic	25	4TLR3
1 in	Plastic	25	4TLR4
1 ½ in	Plastic	25	4TLR5
2 in	Plastic	25	4TLR6
Anchor Plates			
1 in	Nickel Plated Steel	5	14A768
1 in x 29⁄32 in	Stainless Steel	2	14A770
1 ½ to 2 in	Nickel Plated Steel	5	14A769
1 ½ to 2 in	Stainless Steel	2	14A771

** Available in Black only.*

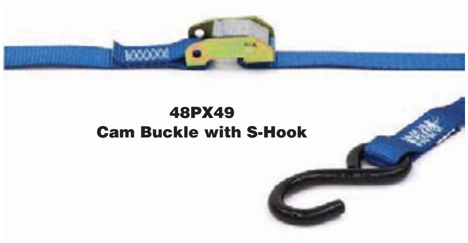
4TLP4

4TLP8

4TLT4

4TLR8

14A768



48PX49
Cam Buckle with S-Hook

38Z862
Ratchet Adjustment, Endless

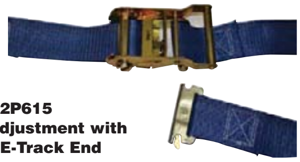
48PX71
Ratchet Adjustment with Grab Hook & Chain Anchor End

2VKP8
Ratchet Adjustment with J-Hook

2VKP4
Ratchet Adjustment with S-Hook End

2VKP6
Ratchet Adjustment with Snap Hook End

38Z887
Ratchet Adjustment with Sewn Eye End



22P615
Ratchet Adjustment with Spring E-Track End

Cargo Straps and Tie-Downs

- Polyester strap and tie-down construction, except as noted.

Length	Width	Breaking Strength	Working Load Limit	Color	Cargo Tie Down End Material	Brand	Item No.	Pkg. Qty.
Cam Buckle Adjustment								
Endless End								
10 ft	1 in	1,000 lb	330 lb	Black	Steel	Lift-All	**38Z863**	1
Flat Hook End								
12 ft	1 in	500 lb	167 lb	Blue	Zinc/Steel	Kinedyne	**48PX34**	1
15 ft	1 in	1,000 lb	330 lb	Black	Steel	Lift-All	**38Z877**	1
S-Hook End								
6 ft	1 in	1,200 lb	400 lb	Blue	Steel	Kinedyne	**48PX49**	2
6 ft	1 in	1,500 lb	500 lb	Red	Steel	Kinedyne	**48PX54**	1
10 ft	1 in	1,200 lb	400 lb	Blue	Steel	Kinedyne	**48PX55**	1
12 ft	1 in	1,200 lb	400 lb	Blue	Steel	Kinedyne	**48PX37**	1
15 ft	1 in	1,200 lb	400 lb	Blue	Steel	Kinedyne	**48PX47**	1
Spring E-Track End								
12 ft	2 in	2,500 lb	800 lb	Yellow	Steel	Lift-All	**3KN66**	1
12 ft	2 in	2,500 lb	835 lb	Gold	Steel	Kinedyne	**22P619**	1
16 ft	2 in	2,500 lb	800 lb	Gray	Steel	Lift-All	**3KN67**	1
16 ft	2 in	2,500 lb	835 lb	Gray	Steel	Kinedyne	**22P616**	1
20 ft	2 in	2,500 lb	835 lb	Blue	Steel	Kinedyne	**22P620**	1
Ratchet Adjustment								
Endless End								
10 ft	1 in	2,100 lb	700 lb	Black	Steel	Lift-All	**38Z862**	1
15 ft	1 in	2,505 lb	835 lb	Blue	—	Kinedyne	**48PX40**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	—	Kinedyne	**48PX43**	1
Flat Hook End								
20 ft	2 in	10,000 lb	3,330 lb	Yellow	Steel	Lift-All	**3LLJ2**	1
20 ft	2 in	10,000 lb	3,330 lb	Yellow	Steel	Lift-All	**3LLG1**	1
20 ft	2 in	10,000 lb	3,335 lb	Gold	Steel	Kinedyne	**48PX53**	1
27 ft	2 in	5,000 lb	1,600 lb	Yellow	Steel	Lift-All	**2W726**	1
27 ft	2 in	5,000 lb	1,670 lb	Gold	Zinc/Steel	Kinedyne	**48PX24**	1
27 ft	2 in	10,000 lb	3,300 lb	Yellow	Steel	Lift-All	**2A468**	1
27 ft	2 in	10,000 lb	3,333 lb	Orange	Steel	Ancra	**16V910**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	Steel	Kinedyne	**48PX48**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Carbon Steel	Kinedyne	**22P577**	1
27 ft	3 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**3XNR7**	1
27 ft	3 in	16,200 lb	5,400 lb	Gold	Steel	Kinedyne	**48PX50**	1
27 ft	4 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**38Z894**	1
27 ft	4 in	16,200 lb	5,400 lb	Gold	Steel	Kinedyne	**48PX42**	1
30 ft	2 in	10,000 lb	3,333 lb	Yellow	Steel	—	**2VKP9**	1
30 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Carbon Steel	Kinedyne	**22P582**	1
30 ft	3 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**3MLU9**	1
30 ft	3 in	16,200 lb	5,400 lb	Gold	Steel	Kinedyne	**48PX26**	1
30 ft	4 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**3MLV4**	1
30 ft	4 in	16,200 lb	5,400 lb	Gold	Zinc/Carbon Steel	Kinedyne	**22P583**	1
Grab Hook and Chain Anchor End								
30 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Steel	Kinedyne	**48PX71**	1
30 ft	3 in	16,200 lb	5,400 lb	Gold	Zinc/Steel	Kinedyne	**48PX67**	1
30 ft	4 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**3MLV6**	1
30 ft	4 in	16,200 lb	5,400 lb	Gold	Zinc/Steel	Kinedyne	**48PX44**	1
J-Hook and Keeper End								
16 ft	1 in	2,100 lb	700 lb	Black	Steel	Lift-All	**3MLU5**	1
J-Hook End								
6 ft	1 ½ in	3,000 lb	1,000 lb	Black	Steel	—	**2VKP5**	2
10 ft	1 in	2,500 lb	835 lb	Blue	Zinc/Steel	Kinedyne	**48PX38**	1
12 ft	1 in	2,505 lb	835 lb	Blue	Zinc/Carbon Steel	Kinedyne	**22P574**	1
15 ft	1 in	2,500 lb	835 lb	Blue	Zinc/Steel	Kinedyne	**48PX29**	1
15 ft	1 in	3,000 lb	1,000 lb	Red	Alloy Steel	—	**34RY84**	1
15 ft	1 ½ in	4,000 lb	1,333 lb	Black	Steel	—	**2VKP7**	1
15 ft	1 ¾ in	4,400 lb	1,670 lb	Blue	Steel	Kinedyne	**48PX56**	1

** Tuff-Edge construction.*

Length	Width	Breaking Strength	Working Load Limit	Color	Cargo Tie Down End Material	Brand	Item No.	Pkg. Qty.
15 ft	2 in	5,000 lb	1,600 lb	Yellow	Steel	Load Hugger	**36LG54**	1
15 ft	2 in	5,000 lb	1,666 lb	Yellow	Steel	—	**2VKP8**	1
15 ft	2 in	10,000 lb	3,300 lb	Yellow	Steel	Load Hugger	**36LG47**	1
16 ft	1 in	2,505 lb	835 lb	Blue	Zinc/Carbon Steel	Kinedyne	**22P576**	1
20 ft	1 in	2,505 lb	835 lb	Blue	Zinc/Steel	Kinedyne	**48PX66**	1
20 ft	1 ½ in	6,600 lb	2,200 lb	Yellow	Alloy Steel	—	**34RY83**	1
20 ft	2 in	5,000 lb	1,600 lb	Yellow	Steel	Lift-All	**3LLH9**	1
20 ft	2 in	5,000 lb	1,600 lb	Yellow	Steel	Lift-All	**3LLG3**	* 1
20 ft	2 in	5,000 lb	1,670 lb	Gold	Zinc/Steel	Kinedyne	**48PX51**	1
25 ft	1 in	2,505 lb	835 lb	Blue	Zinc/Steel	Kinedyne	**48PX69**	1
25 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Steel	Kinedyne	**48PX35**	1
27 ft	2 in	10,000 lb	3,300 lb	Yellow	Alloy Steel	—	**34RY82**	1
27 ft	2 in	10,000 lb	3,300 lb	Yellow	Steel	Lift-All	**4LA47**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Carbon Steel	Kinedyne	**22P578**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Steel	Kinedyne	**48PX25**	1
27 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Carbon Steel	Kinedyne	**26W539**	1
27 ft	3 in	15,000 lb	5,000 lb	Hi-Visibility Yellow	Steel	Lift-All	**38Z891**	1
27 ft	3 in	16,200 lb	5,400 lb	Gold	Zinc/Steel	Kinedyne	**48PX41**	1
27 ft	4 in	20,000 lb	6,670 lb	Gold	Zinc/Steel	Kinedyne	**48PX45**	1
30 ft	2 in	5,000 lb	1,670 lb	Gold	Zinc/Steel	Kinedyne	**48PX32**	1
30 ft	2 in	10,000 lb	3,300 lb	Yellow	Steel	Lift-All	**38Z893**	1
30 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Carbon Steel	Kinedyne	**22P580**	1
30 ft	3 in	15,000 lb	5,000 lb	Hi-Visibility Yellow	Steel	Lift-All	**38Z944**	1
30 ft	3 in	16,200 lb	5,400 lb	Gold	Zinc/Steel	Kinedyne	**48PX31**	1
40 ft	2 in	10,000 lb	3,335 lb	Gold	Zinc/Steel	Kinedyne	**48PX27**	1
Sewn Eye End								
27 ft	3 in	15,000 lb	5,000 lb	Yellow	Steel	Lift-All	**38Z887**	1
S-Hook End								
6 ft	1 ½ in	3,000 lb	1,000 lb	Black	Steel	—	**2VKP4**	2
10 ft	1 in	1,200 lb	400 lb	Blue	Steel	Kinedyne	**48PX28**	4
10 ft	1 in	1,200 lb	400 lb	Black	Steel	Kinedyne	**48PX39**	1
12 ft	1 ½ in	2,500 lb	833 lb	Black	Steel	—	**32J628**	2
14 ft	1 in	1,200 lb	400 lb	Black	Steel	Kinedyne	**48PX36**	1
15 ft	1 in	1,200 lb	400 lb	Blue	Zinc/Carbon Steel	Kinedyne	**22P575**	1
15 ft	1 in	1,200 lb	400 lb	Red	Steel	—	**2VKP3**	2
15 ft	1 in	1,500 lb	500 lb	Black	Alloy Steel	—	**34RY85**	1
15 ft	1 in	2,100 lb	700 lb	Black	Steel	Lift-All	**6A265**	1
15 ft	1 in	2,100 lb	700 lb	Black	Steel	Lift-All	**38Z871**	16
Snap Hook End								
15 ft	1 ½ in	4,000 lb	1,333 lb	Black	Steel	—	**2VKP6**	1
20 ft	2 in	5,000 lb	1,600 lb	Yellow	Steel	Lift-All	**3LLG5**	1
Spring E-Track End								
12 ft	2 in	3,000 lb	1,000 lb	Gold	Steel	Kinedyne	**22P613**	1
12 ft	2 in	3,000 lb	1,000 lb	Yellow	Steel	Lift-All	**3KN69**	1
12 ft	2 in	3,999 lb	1,333 lb	Yellow	Steel	Ancra	**16V915**	1
12 ft	2 in	4,400 lb	1,500 lb	Gold	Steel	Kinedyne	**52XH69**	1
16 ft	2 in	3,000 lb	1,000 lb	Gray	Steel	Kinedyne	**22P614**	1
16 ft	2 in	3,000 lb	1,000 lb	Gray	Steel	Kinedyne	**48PX62**	1
16 ft	2 in	3,000 lb	1,000 lb	Gray	Steel	Lift-All	**3KN70**	1
16 ft	2 in	3,999 lb	1,333 lb	Gray	Steel	Ancra	**16V916**	1
16 ft	2 in	4,400 lb	1,500 lb	Gold	Steel	Kinedyne	**52XH70**	1
20 ft	2 in	3,000 lb	1,000 lb	Blue	Steel	Kinedyne	**22P615**	1
20 ft	2 in	3,000 lb	1,000 lb	Blue	Steel	Lift-All	**3KN71**	1
20 ft	2 in	3,999 lb	1,333 lb	Blue	Steel	Ancra	**16V917**	1
20 ft	2 in	4,400 lb	1,500 lb	Gold	Steel	Kinedyne	**52XH71**	1

PROGRIP CARGO CONTROL

39RH06

Back-Off Technology Cargo Straps

Controlled-release cargo straps allow you to release one tooth at a time. Safe and easy to use, this step release action prevents sudden jerks that might cause a load to fall.

Description	Length	Width	Breaking Strength	Working Load Limit	Item No.
J-Hook Fitting Style	16 ft	1 ¼ in	3,000 lb	1,000 lb	**53FK21**
J-Hook Fitting Style	20 ft	1 ½ in	5,000 lb	1,665 lb	**53FK22**
J-Hook Fitting Style	27 ft	2 in	10,000 lb	3,300 lb	**39RH10**
Flat Hook Fitting Style	27 ft	2 in	10,000 lb	3,333 lb	**39RH06**

1DKZ7

16V921

1DKZ9

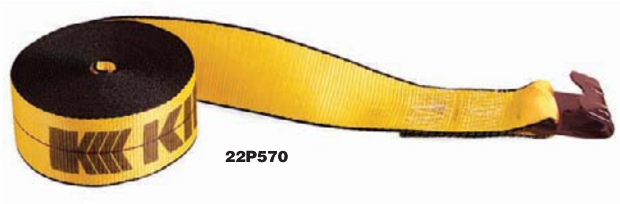
LiftAll PRODUCTS FOR BETTER LIFTING · KINEDYNE The Cargo Control People! · ANCRA INTERNATIONAL

Tie-Down Winches and Winch Bars

Tie-Down Winches—Ensure smooth transit of cargo with tightened strap locked into place by ratchet.

Winch Bars—Provide added leverage to tighten winch. For use with weld-on or portable-style winches.

Description	Working Load Limit	Brand	Item No.
Winches			
Bolt-on Mounting			
Portable Load Hugger	5,000 lb	Lift-All	**2A465**
Portable Webbing Winch with 2 Set Screws	5,400 lb	Kinedyne	**22P590**
Weld-on Mounting			
Tie Down Winch	5,000 lb	—	**1DKZ7**
Standard Fixed	5,000 lb	Lift-All	**2A464**
Low-Profile 3-Bar, No Paint	5,000 lb	Kinedyne	**22P594**
Standard Fixed	5,500 lb	Kinedyne	**22P584**
Low-Profile Fixed	5,500 lb	Kinedyne	**22P585**
Double "L" Style Winch Track Mounting			
Standard Double "L" Webbing Winch - Sliding	5,500 lb	Kinedyne	**22P586**
Sliding Track Mounting			
Standard Webbing Winch - Sliding	5,500 lb	Kinedyne	**22P588**
Storable Webbing Winch - Sliding	5,500 lb	Kinedyne	**22P589**
Standard Webbing Winch - Sliding	5,500 lb	Kinedyne	**22P591**
Winch Bars			
Knurled Grips - 33"L	—	—	**1DKZ9**
Chrome Knurled Handle - 34 inL	—	Lift-All	**2A466**
Painted Knurled Handle - 35"L	—	Kinedyne	**22P592**
Chrome Knurled Handle - 35"L	—	Kinedyne	**22P593**
Combination Winch Bar, Knurled Grips	—	Kinedyne	**48PX68**
Knurled Grips - 34 inL	—	Ancra	**16V907**
Knurled Grips - 34 inL	—	Ancra	**16V908**
Ergonomic 360° - 34 inL	—	Ancra	**16V926**
Ergonomic 360° - 38 ⅝ inL	—	Ancra	**16V927**
Outward Truck/Trailer Winch	5,500 lb	Ancra	**16V921**
Inward Truck/Trailer Winch	5,500 lb	Ancra	**16V922**
Accessories			
Plastic Corner Protector For 2" To 4" Webbing & Chain	—	Kinedyne	**22P596**
Plastic Corner Protector for 2" To 4" Webbing	—	Kinedyne	**22P595**
Coil Rack	—	Kinedyne	**22P597**
Weld-On Mounting			
72 in Steel Sliding C Channel Winch Track	—	Kinedyne	**22P587**
Heavy Duty Strap Band	—	Kinedyne	**48PX78**
Corner Protector	—	Kinedyne	**48PX81**



22P570

LiftAll PRODUCTS FOR BETTER LIFTING · KINEDYNE The Cargo Control People!

Winch Straps

- Tuff-edge webbing for cut and abrasion resistance

Polyester construction. Available with grab hook, flat hook, sewn eye, triangle ring, or U-hook ends.

WARNING: Do not exceed working load limit. This is the maximum load that may be applied per the Commercial Vehicle Safety Alliance.

Cargo Tie Down Width	Cargo Tie Down Length	Working Load Limit	Cargo Tie Down Material	Brand	Item No.
Grab Hook and Chain Anchor					
3 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z997**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A020**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A021**
	30 ft	5,400 lb	Polyester	Kinedyne	**22P567**
4 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z996**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A018**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A019**
	30 ft	5,400 lb	Polyester	Kinedyne	**22P572**
Flat Hook					
2 in	30 ft	3,335 lb	Polyester	Kinedyne	**48PX52**
3 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z989**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A008**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A009**
	30 ft	5,400 lb	Polyester	Kinedyne	**22P566**
4 in	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A006**
	27 ft	5,000 lb	Polyester	Lift-All	**2A461**
	27 ft	5,400 lb	Polyester	Kinedyne	**22P568**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A007**
	30 ft	5,400 lb	Polyester	Kinedyne	**22P570**
Grab Hook					
3 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z994**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A016**
	30 ft	5,000 lb	Polyester	Lift-All	**38Z995**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A017**
4 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z992**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A014**
	30 ft	5,000 lb	Polyester	Lift-All	**38Z993**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A015**
No Fittings					
4 in	30 ft	5,400 lb	Polyester	Kinedyne	**22P631**
Sewn Eye					
3 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z999**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A024**
	30 ft	5,000 lb	Polyester	Lift-All	**39A001**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A025**
4 in	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A022**
	30 ft	5,000 lb	Polyester	Kinedyne	**22P571**
	30 ft	5,000 lb	Polyester	Lift-All	**38Z998**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A023**
Triangle Ring					
2 in	27 ft	3,335 lb	Polyester	Kinedyne	**48PX46**
3 in	27 ft	5,000 lb	Polyester	Lift-All	**38Z991**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A012**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A013**
4 in	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A010**
	30 ft	5,000 lb	Polyester	Lift-All	**38Z990**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A011**
	30 ft	5,400 lb	Polyester	Kinedyne	**22P569**
U-Hook					
3 in	27 ft	5,000 lb	Polyester	Lift-All	**39A004**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A028**
	30 ft	5,000 lb	Polyester	Lift-All	**39A005**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A029**
4 in	27 ft	5,000 lb	Polyester	Lift-All	**39A002**
	27 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A026**
	30 ft	5,000 lb	Polyester	Lift-All	**39A003**
	30 ft	5,000 lb	Tuff-Edge Polyester	Lift-All	**39A027**

Folding Steel Cargo Bar

Cargo Hoops

Cargo Bars and Decking Beams

Cargo Bars—Hold loads in place.

Folding Steel Cargo Bar—4" square, articulating rubber end pads. 1½" square 14-ga. tubing. Mechanical ratchet will not slip or vibrate. 2-pc. hinged bar folds.

E-Track Decking Beams—E-track bars are used for stocking and cargo control.

Description	Brand	Item No.
Ratcheting Cargo Bars		
Round Tubing - 40 in to 70 in Service Range	—	**32J634**
Round Tubing - 81 in to 105 in Service Range	—	**32J635**
Round Tubing - 63 in to 114 in Service Range	—	**32J649**
Cargo Bars		
Folding Steel Cargo Bar	—	**5A351**
E-Track Decking Beams		
Standard Duty - 85⅝" to 95" Service Range	Kinedyne	**22P624**
Standard Duty - 92¹⁵⁄₁₆" to 102.3" Service Range	Kinedyne	**22P625**
Heavy Duty Decking Beam - 85⅝" to 95" Service Range	Kinedyne	**22P622**
Heavy Duty Decking Beam - 92¹⁵⁄₁₆" to 102.3" Service Range	Kinedyne	**22P623**
Jack Bars		
Square Tubing - 54 in to 107 in Service Range	Kinedyne	**48PX80**
Square Tubing - 86 To 104" Service Range	Kinedyne	**22P628**
SAF-T-LOK Bars		
Steel - 90 To 105" Service Range	Kinedyne	**22P626**
Aluminum - 90 To 105" Service Range	Kinedyne	**22P627**

4HXC3
E-Track System

4HXC5
E-Fitting
w/Ring

E-Track Systems and Accessories

Use to affix items to trailer wall. Horizontal E-Track can be used to secure vehicles to the floor during transit.

Description	L	D	W	Brand	Item No.	Pkg. Qty.
E-Track System						
Vertical E-Track	48 in	⁷⁄₁₆ in	3 ½ in	—	**4HXC3**	1
Horizontal E-Track	60 in	²⁹⁄₆₄ in	5 in	—	**4HXC4**	1
12 ga. Series E Track - Galvanized	120 in	¹³⁄₃₂ in to ²⁹⁄₆₄ in	4 ⅞ in	Kinedyne	**22P617**	1
12 ga. Horizontal E-Track Powder Coated	120 in	¹³⁄₃₂ in to ²⁹⁄₆₄ in	4 87/100 in	Kinedyne	**22P618**	1
11 ga. Series E Track - Powder Coat	120 in	⁷⁄₁₆ in	3 ¹⁵⁄₃₂ in	Kinedyne	**22P621**	1
E-Track Accessories						
E-Fitting w/Ring, ¼ in-dia.	—	—	—	—	**4HXC5**	8
E-Fitting w/Ring, ⁵⁄₁₆ in-dia.	3 in	—	½ in	—	**4HXC6**	12
Series E or A Beam Socket - Positive Locking Mechanism	4 in	3 in	3 in	Kinedyne	**22P629**	1
Series E or A Rope Tie-Off, 2 in-dia. Ring	6 in	⅜ in	2 in	Kinedyne	**22P630**	1
Series E or A Rope Tie-Off, 2 in-dia. Ring	6 in	⅜ in	2 in	Kinedyne	**48PX63**	2
Door Pull w/Steel Mount Plate	24 in	—	—	Kinedyne	**48PX72**	1

Snap-Loc E-Track Cargo Control System

Tie-down system uses proven E-track technology in a single placement anchor where you want it. For use on pickups, truck racks, trailers, service vehicles, flat beds, vans, off-road vehicles, and more.

15X206
Black Snaploc
E-Track Single

15X214
O-Style Ring
Connects Ropes
and Hook Straps

15X210
E-Strap Link

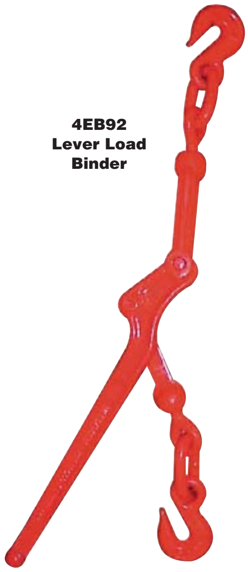
15X212
E-Strap Hook

Description	L	Item No.
Snap-Loc® Logistic E-Strap Anchors		
Black Snaploc - 1,000 lb WLL	6 in	**15X206**
Black Snaploc 2 Pack with Fasteners	6 in	**15X239**
Stainless Steel Snaploc - 1,000 lb WLL	6 in	**15X208**
Zinc Snaploc - 1,000 lb WLL	6 in	**15X204**
Zinc Snaploc 2 Pack with Fasteners	6 in	**15X241**
Unfinished Snaploc - 1,000 lb WLL	6 in	**15X202**
Weld-On Snaploc - 1,467 lb WLL	4 ½ in	**15X199**
Heavy Duty Zinc Fastener Sets for Snaplocs		
Carriage Bolt Set, ⁵⁄₁₆ x 1" (Fastens 2 Snaplocs)	1"	**19XZ82**
Allen Socket Head Cap Screw Set, ⁵⁄₁₆ x 1" (Fastens 2 Snaplocs)	1 in	**19XZ83**
Hex Head Lag Screw Set, ⁵⁄₁₆ x 3" (Fastens 2 Snaplocs)	3 in	**19XZ84**
Self Drilling Screw Set, 12-14, ⁵⁄₁₆ x 1½" (Fastens 2 Snaplocs)	1 ½ in	**19XZ85**
System Accessories		
Snaplocs Ring	3 in	**15X214**
E-Strap Link (connects E-Straps together or to itself)	4 ½ in	**15X210**
E-Strap Hook (slips on and turns E-Straps into hook straps)	—	**15X212**
Snaplocs Snap-Hook Carabiner	2 in	**19XZ81**
E-Fitting 2 Pack - 1,000 lb WLL	2 in	**19XZ80**
Flush End		
Snaplocs E-Strap Dolly - 1,500 lb WLL	—	**40AL30**
System Accessories		
Snaplocs E-Strap Push Cart Dolly - 1,500 lb WLL	—	**40AL31**
Military Cargo Nets		
Cargo Net 62" x 72" (short bed pick-up)	—	**15X243**
Cargo Net 62" x 96" (long bed pick-up)	—	**15X244**
Cargo Net 96" x 144" (12 foot trailer)	—	**15X245**
Cargo Net 96" x 192" (16 foot trailer)	—	**15X246**
Logistic E-Straps		
2 inW Multi-Use E-Strap - 4,400 lb Assembly Strength	6 in	**19XZ71**
2 inW Multi-Use E-Strap - 4,400 lb Assembly Strength	1 ft	**19XZ70**
2 inW Cam E-Strap - 3,000 lb Assembly Strength	8 ft	**19XZ66**
2 inW Ratchet E-Strap - 4,400 lb Assembly Strength	8 ft	**19XZ67**

Description	L	Item No.
2 inW Cam E-Strap - 3,000 lb Assembly Strength	16 ft	**19XZ64**
2 inW Ratchet E-Strap - 4,400 lb Assembly Strength	16 ft	**19XZ65**
Cinch Straps		
1"W Cinch Cam Strap, Pair	24"	**52RW90**
1"W Cinch Cam Strap, Pair	36"	**52RW91**
1"W Cinch Cam Strap, Pair	72"	**52RW93**
1"W Cinch Cam Strap	50 ft.	**19XZ72**
1"W Cinch Cam Strap	100 ft.	**19XZ73**
2"W Cinch Cam Strap	8 ft.	**19XZ68**
2"W Cinch Ratchet Strap	8 ft.	**19XZ69**
Hook Straps		
1"W Hook Cam Strap	8 ft	**19XZ74**
1" Hook Ratchet Strap	8 ft	**19XZ75**
Tow and Lift Straps		
1 in x 15 ft Tow and Lift Strap - 2,333 lb WLL	15 ft	**45MJ62**
2 in x 30 ft Tow and Lift Strap - 3,333 lb WLL	30 ft	**45MJ63**
Hand Truck Cargo Strap		
2" x 15' Cargo Strap for Hand Trucks, 400 lb Load Capacity	—	**52RW89**

Description	Item No.
Snap-Loc® System Combo Packs	
(2) 2 in x 12 in E-Straps, (2) Black Snaplocs, (2) Stainless Steel Snaplocs, (2) Hooks, (4) Lag Bolts, (4) Hex Screws, (4) Washers, (4) Nuts	**19XZ77**
Safety Strap Kit (1) 2 in x 12 in E-Strap, (2) Black Snaplocs with Fasteners	**15X238**
(1) 2 in x 16 ft Cam E-Strap, (2) Black Snaplocs with Fasteners	**15X232**
(1) 2 in x 16 ft Cam E-Strap, (2) Black Snaplocs with Fasteners, (2) Rings	**15X233**
(1) 2 in x 16 ft Cam E-Strap, (2) Black Snaplocs with Fasteners, (2) Hooks	**19XZ78**
(1) 2 in x 16 ft Ratchet E-Strap, (2) Black Snaplocs with Fasteners	**15X234**
(1) 2 in x 16 ft Ratchet E-Strap, (2) Black Snaplocs with Fasteners, (2) Rings	**15X235**
(1) 2 in x 16 ft Ratchet E-Strap, (2) Black Snaplocs with Fasteners, (2) Hooks	**19XZ79**
(2) 2 in x 16 ft Ratchet E-Straps, (6) Black Snaplocs with Fasteners	**15X223**
(2) 2 in x 16 ft Ratchet E-Straps, (6) Black Snaplocs with Fasteners, (2) Hooks, (2) Rings	**15X226**

22P610
Lever Load
Binder



4EB92
Lever Load
Binder

3YDG1
Ratchet Load Binder

Lever and Ratchet Load Binders

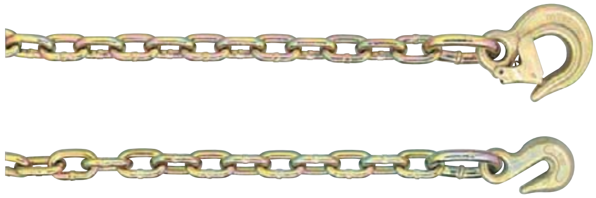
Ideal for most trucking and marine industry chain binding applications. Drop-forged steel construction. See Grainger.com® for applicable standards.

WARNING: Do not exceed working load limit. Working load limit of an assembly is determined by the component with the lowest working load limit.

Working Load Limit	Trade Size G30/G43	Trade Size G70	Brand	Item No.
Lever Load Binders				
2,600 lb	¼ in to 5/16 in	—	Kinedyne	**48PX61**
5,400 lb	⅜ in	5/16 in	Kinedyne	**22P610**
5,400 lb	⅜ in	5/16 in	Kinedyne	**22P609**
5,400 lb	⅜ in	5/16 in	—	**4EB92**
5,400 lb	⅜ in	5/16 in	Kinedyne	**22P608**
9,200 lb	½ in	⅜ in	Kinedyne	**22P612**
Ratchet Load Binders				
5,400 lb	⅜ in	5/16 in	Kinedyne	**22P607**
6,600 lb	5/16 to ⅜ in	5/16 in to ⅜ in	B/A Products Co.	**3YDG1**
9,200 lb	½ in	⅜ in	Kinedyne	**22P611**
13,000 lb	½ in to ⅝ in	—	Kinedyne	**48PX60**
Accessories				
Lever Binder Lok			Kinedyne	**48PX77**

22P598

1DJU8



3YFW6

Transport Chains and Chain Binders

Binder Chains—Ideal for towing or securing loads to trailers. All have clevis grab hooks, except 1DJV1 has a welded, grab-style hook. Steel construction. Meet National Association of Chain Manufacturers' Standards.

Transport Chains—Gold dichromate color. Meet NACM Standard.

Safety Chains—Tagged with grade and WLL DOT-Approved Grade 70 chain.

Trade Size	L	Grade	Rated Capacity	Brand	Item No.
Binder Chains					
5/16 in	20 ft	70	4,700 lb	Dayton	**1DJU8**
⅜ in	20 ft	43	5,400 lb	Dayton	**1DJU9**
⅜ in	20 ft	70	6,600 lb	Dayton	**1DJV1**
⅜ in	20 ft	70	6,600 lb	Dayton	**1DJV2**
Transport Chains with Grab Hook					
5/16 in	16 ft	70	4,700 lb	Kinedyne	**22P598**
5/16 in	20 ft	70	4,700 lb	Kinedyne	**22P599** *
5/16 in	20 ft	70	4,700 lb	Kinedyne	**22P601**
5/16 in	25 ft	70	4,700 lb	Kinedyne	**22P602**
⅜ in	16 ft	70	6,600 lb	Kinedyne	**22P603**
⅜ in	20 ft	70	6,600 lb	Kinedyne	**22P604** *
⅜ in	20 ft	70	6,600 lb	Kinedyne	**22P605**
⅜ in	25 ft	70	6,600 lb	Kinedyne	**22P606**
Safety Chains					
5/16 in	12 ft	70	4,700 lb	B/A Products Co.	**3YFW6**

*** Come packaged as 25 pieces of 20-ft. chain in a barrel.**

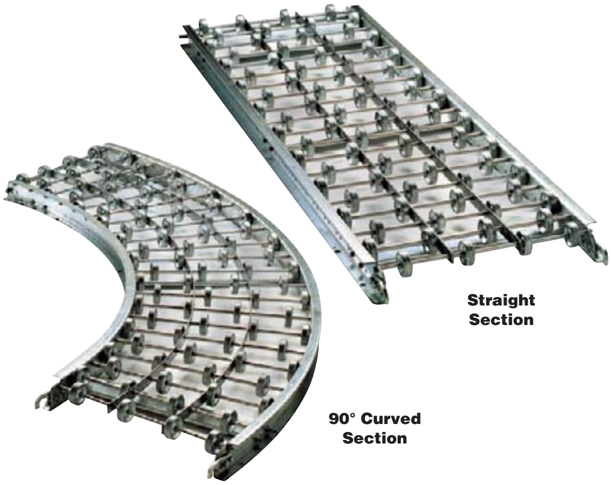
Truck and Trailer Anchors

Provide a safe, secure, and easily accessible anchor point for tie-downs or rope. Mount on the inside of a pickup truck box, bed, or walls of a trailer. Rust-resistant.

Description	Working Load Limit	Ring Dia.	Finish	Material	Item No.	Pkg. Qty.
Surface Mount Anchor	400 lb	¼ in	Zinc Plated	Steel	**4HXF1**	12
Wire Ring	400 lb	¼ in	Yellow Zinc Plated	Steel	**4HXE9**	20
Flip Ring	5,000 lb	⅝ in	Natural	Forged Steel	**5JDU9**	10
Screw Mount Anchor Ring	1,300 lb	2 in	Zinc Plated	Steel	**34RY81**	1
Recessed Anchor Ring	1,667 lb	⅜ in	Zinc Plated	Steel	**4HXF3**	6
Heavy-Duty Anchor Ring	3,667 lb	½ in	Yellow Zinc Plated	Forged Steel	**4HXF2**	12

4HXF2

H-Stands sold separately on page 1113.



Straight Section

90° Curved Section

Light-Duty Rigid-Frame Skate Wheel Conveyors

ASHLAND CONVEYOR PRODUCTS

Conveyors allow users to move flat-bottomed, lightweight loads with reduced effort. Sections connect to build custom conveyor systems. Each section must be supported by compatible conveyor stands, sold separately. Conveyor section load capacity depends on the number and spacing of the support stands. Staggered wheel design.

Aluminum Frame—Lighter than steel for applications with frequent disassembly and reconfiguration of conveyors.

Galvanized Steel Frame—Stronger than aluminum, with better resistance to abrasion and impacts. For assembly lines, shipping departments, and stocking areas.

Note: A minimum of three axles and five wheels should be under the load at all times.

Overall Width	Between Frame Width	Axle Spacing	Load Capacity @ 5 ft. Centers	Wheels per Axle	10 FT STRAIGHT Item No.	5 FT STRAIGHT Item No.	90° CURVED Item No.
Aluminum Frame							
Aluminum Skate Wheels							
12 in	10 in	3 in	150 lb/ft	2 3	2W851	1PDF5	3W430
15 in	13 in	3 in	150 lb/ft	2 3	2WKL3	2WKL2	2WKL4
18 in	16 in	3 in	150 lb/ft	4	2W852	1PDF6	3W431
24 in	22 in	3 in	150 lb/ft	5	3MY85	1PDF7	3MY86
Galvanized Steel Frame							
Nylon Skate Wheels							
12 in	10 in	3 in	260 lb/ft	2 3	2WKL6	2WKL5	2WKL7
15 in	13 in	3 in	260 lb/ft	2 3	2WKN2	2WKL9	2WKN4
18 in	16 in	3 in	260 lb/ft	4	2WKN6	2WKN5	2WKN7
24 in	22 in	3 in	260 lb/ft	5	2WKN9	2WKN8	2WKP1
Steel Skate Wheels							
12 in	10 in	3 in	260 lb/ft	2 3	2W849	1PDF2	3W428
12 in	10 in	1 ½ in	260 lb/ft	4	42X952	42X953	42X954
15 in	13 in	3 in	260 lb/ft	2 3	2WKN1	2WKL8	2WKN3
18 in	16 in	3 in	260 lb/ft	4	2W850	1PDF3	3W429
18 in	16 in	1 ½ in	260 lb/ft	4	42X955	42X956	42X957
24 in	22 in	3 in	260 lb/ft	5	3MY70	1PDF4	3MY84
24 in	22 in	1 ½ in	260 lb/ft	5	42X958	42X959	42X960
Replacement Parts							
Conveyor Connecting Hook Kit For use with Skate Wheel and Light Duty Conveyors, Both Aluminum and Zinc Plated Steel							6GKJ0

55KR68

Medium-Duty Extendable Flexible-Frame Skate Wheel Conveyors

CONVEYORS

- Shipped assembled
- 200 lb./ft. max. load, except for 55KR79 and 55KR80 which have 300 lb./ft. max. load

Conveyors have accordion-style, flexible frames that stretch, curve, and contract to change conveyor shape and length. Conveyors collapse for compact storage. Skate wheels help move loads with firm, flat bottoms from one place to another with reduced effort. Adjustable legs can be raised or lowered to change the height of the conveyor from 28½" to 41½", or to adjust the slope. Swivel casters allow the conveyors to be rolled into position. Suitable for loading and unloading trailers, creating temporary assembly lines, and adding length to an existing conveyor.

PIVOTING PACKAGE STOPS

Stops can be raised to prevent items from falling off the end of the conveyor, or lowered to allow items to flow onto other conveyors and surfaces.

Overall Width	Between Frame Width	Overall Length	Load Capacity @ 5 ft. Centers	Wheels per Axle	Item No.
Carbon Steel Frame Conveyors					
Plastic Skate Wheels					
26 ¾ in	18 in	8 ft	200 lb/ft	7	55KR68
		12 ft	200 lb/ft	7	55KR69
		24 ft	200 lb/ft	7	55KR70
32 11/16 in	24 in	8 ft	200 lb/ft	9	55KR72
		12 ft	200 lb/ft	9	55KR73
		24 ft	200 lb/ft	9	55KR74
38 9/16 in	30 in	12 ft	200 lb/ft	10	55KR76
		24 ft	200 lb/ft	10	55KR77
Steel Skate Wheels					
26 ¾ in	24 in	24 ft	200 lb/ft	7	55KR71
32 11/16 in		8 ft	300 lb/ft	9	55KR79
		12 ft	300 lb/ft	9	55KR80
		24 ft	200 lb/ft	9	55KR75
		24 ft	300 lb/ft	9	55KR81
38 9/16 in	30 in	24 ft	200 lb/ft	10	55KR78

Item	For Between Frame Width	Item No.
Accessories		
Package Stop	23 ⅝ in	13D481

High Strength

Nonmarring

Lightweight Corrosion-Resistant

Skate Wheels

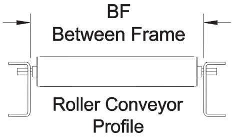
USDI ASHLAND CONVEYOR PRODUCTS

Replacement wheels mount into gravity-flow skate wheel conveyor sections, flow racks, and flow rails to easily move loads with firm, flat bottoms. They roll on ball bearings.

Wheel Dia.	Wheel Bore Diameter	Wheel Width	Hub Width	Wheel Load Capacity	Brand	Item No.	Pkg. Qty.
High Strength Galvanized Steel							
1 ½ in	0.258 in	½ in	13/16 in	100 lb	United Sales	22FA26	1
1 15/16 in	0.25 in	—	13/16 in	75 lb	Ashland Conveyor	2WKP5	50
		—	13/16 in	100 lb	Ashland Conveyor	2WKP2	50
	0.255 in	⅝ in	13/16 in	150 lb	United Sales	22FA22	1
	0.318 in	⅝ in	13/16 in	150 lb	United Sales	22FA24	1
4 in	0.76 in	1 in	1 ⅜ in	300 lb	United Sales	22FA30	1
Non-Marring Plastic Coated Steel							
2 3/16 in	0.25 in	⅝ in	13/16 in	150 lb	United Sales	22FA27	1
	0.312 in	⅝ in	13/16 in	150 lb	United Sales	22FA28	1
Non-Marring Plastic							
1 15/16 in	0.25 in	—	13/16 in	75 lb	Ashland Conveyor	2WKP3	50
Lightweight Corrosion-Resistant Aluminum							
1 15/16 in	0.25 in	—	13/16 in	75 lb	Ashland Conveyor	2WKP4	50

H-Stands sold separately on page 1113.

Overall Width	Between Frame Width	Roller Spacing	Load Capacity @ 5 ft. Centers	Roller Dia.	10 FT STRAIGHT Item No.	90° CURVED Item No.
Light-Duty						
Aluminum Frame, 18 ga. Aluminum Rollers						
12 in	10 in	1 ½ in	120 lb/ft	1 ⅜ in	2WJU2	2WJV1
		3 in	120 lb/ft	1 ⅜ in	2WJT7	—
		4 ½ in	120 lb/ft	1 ⅜ in	2WJU6	—
15 in	13 in	1 ½ in	120 lb/ft	1 ⅜ in	2WJU3	2WJV2
		4 ½ in	120 lb/ft	1 ⅜ in	2WJU7	—
18 in	16 in	1 ½ in	120 lb/ft	1 ⅜ in	2WJU4	2WJV3
		3 in	120 lb/ft	1 ⅜ in	2WJT9	—
24 in	22 in	1 ½ in	120 lb/ft	1 ⅜ in	2WJU5	2WJV4
		3 in	120 lb/ft	1 ⅜ in	2WJU1	—
		4 ½ in	120 lb/ft	1 ⅜ in	2WJU9	—
Galvanized Steel Frame, 18 ga. Galvanized Steel Rollers						
12 in	10 in	1 ½ in	260 lb/ft	1 ⅜ in	4W569	1PDG1
		4 ½ in	260 lb/ft	1 ⅜ in	2WJV9	—
15 in	13 in	1 ½ in	260 lb/ft	1 ⅜ in	2WJV8	2WJW4
		3 in	260 lb/ft	1 ⅜ in	2WJV7	—
		4 ½ in	260 lb/ft	1 ⅜ in	2WJW1	—
18 in	16 in	1 ½ in	260 lb/ft	1 ⅜ in	4W570	4W573
		4 ½ in	260 lb/ft	1 ⅜ in	2WJW2	—
24 in	22 in	1 ½ in	260 lb/ft	1 ⅜ in	4W571	4W574
		4 ½ in	260 lb/ft	1 ⅜ in	2WJW3	—
Medium-Duty						
Aluminum Frame, 16 ga. Aluminum Rollers						
12 ¾ in	10 in	3 in	420 lb/ft	1 15/16 in	2WJW9	2WJY3
		4 ½ in	420 lb/ft	1 15/16 in	2WJX8	—
		6 in	420 lb/ft	1 15/16 in	2WJX4	—
15 ¾ in	13 in	3 in	420 lb/ft	1 15/16 in	—	2WJY4
		4 ½ in	420 lb/ft	1 15/16 in	2WJX9	—
18 ¾ in	16 in	3 in	420 lb/ft	1 15/16 in	—	2WJY5
		6 in	420 lb/ft	1 15/16 in	2WJX6	—
24 ¾ in	22 in	3 in	420 lb/ft	1 15/16 in	2WJX3	2WJY6
		4 ½ in	420 lb/ft	1 15/16 in	2WJY2	—
Steel Frame, 16 ga. Steel Rollers						
12 ¾ in	10 in	3 in	600 lb/ft	1 15/16 in	4W575	1PDH2
		4 ½ in	600 lb/ft	1 15/16 in	2WKA2	—
		6 in	600 lb/ft	1 15/16 in	2WJZ4	—
15 ¾ in	13 in	3 in	600 lb/ft	1 15/16 in	2WJZ1	2WKA9
		6 in	600 lb/ft	1 15/16 in	2WJZ5	—
18 ¾ in	16 in	3 in	600 lb/ft	1 15/16 in	4W576	4W580
		4 ½ in	600 lb/ft	1 15/16 in	2WKA4	—
		6 in	600 lb/ft	1 15/16 in	2WJZ6	—
24 ¾ in	22 in	3 in	600 lb/ft	1 15/16 in	4W577	4W581
		4 ½ in	600 lb/ft	1 15/16 in	2WKA5	—
		6 in	600 lb/ft	1 15/16 in	2WJZ7	—
29 ¾ in	27 in	3 in	600 lb/ft	1 15/16 in	2WJZ2	2WKC1
		4 ½ in	600 lb/ft	1 15/16 in	2WKA6	—
		6 in	600 lb/ft	1 15/16 in	2WJZ8	—
33 ¾ in	31 in	3 in	600 lb/ft	1 15/16 in	2WJZ3	2WKC2
		6 in	600 lb/ft	1 15/16 in	2WJZ9	—
38 ¾ in	36 in	3 in	600 lb/ft	1 15/16 in	4W578	4W582
		4 ½ in	600 lb/ft	1 15/16 in	2WKA8	—
		6 in	600 lb/ft	1 15/16 in	2WKA1	—
Heavy-Duty						
Steel Frame, 11 ga. Steel Rollers						
16 in	13 in	3 in	1050 lb/ft	2 ½ in	2WKC6	—
		6 in	1050 lb/ft	2 ½ in	2WKC9	—
24 in	21 in	3 in	1050 lb/ft	2 ½ in	2WKC7	—
30 in	27 in	3 in	1050 lb/ft	2 ½ in	1PDH9	—
54 in	51 in	3 in	1050 lb/ft	2 ½ in	1PDJ1	—
Extra Heavy-Duty						
Steel Frame, 11 ga. Steel Rollers						
30 3/16	27 in	3 in	1550 lb/ft	2 ½ in	42X973	—
42 3/16	39 in	3 in	1550 lb/ft	2 ½ in	42X974	—
54 3/16	51 in	3 in	1550 lb/ft	2 ½ in	42X975	—



90° Curved Section

Straight Section

ASHLAND CONVEYOR PRODUCTS

Steel and Aluminum Roller Conveyors

Roller conveyors move loads along a downward slope, using gravity to reduce effort required in package handling, warehousing, dock, assembly, or inspection tasks. Rollers provide a stable surface for loads with rimmed or uneven bottoms. Loads can be pushed from side-to-side across the full width of the conveyors. Each section consists of rollers with axles attached to rigid frames. Roller conveyors typically offer more weight capacity than skate wheel conveyors. Sections must be supported by compatible conveyor stands, sold separately. Conveyor section load capacity depends on the number and spacing of the support stands.

Aluminum Frame—Lighter than steel for applications with frequent disassembly and reconfiguration of conveyors.

Steel Frame—Stronger than aluminum, with better resistance to abrasion and impacts.

LIGHT-DUTY

For moving low-weight and low-volume items such as pails and bags. Sections have hooks and pins that connect to create custom conveyor lines.

MEDIUM-DUTY

For moving medium-weight drums, pails, and pallets. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

HEAVY-DUTY

For pallets, drums, and other heavy items. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

EXTRA-HEAVY-DUTY

For very heavy items such as large pallets, castings, sheet metal, and metal bins. Sections have butt plates on the ends that bolt together to create custom conveyor lines.

ASHLAND CONVEYOR PRODUCTS

Telescoping Steel-Frame Roller Conveyors

Frame sections slide in and out to expand for conveying tasks or contract for moving and storage. They are suitable for loading and unloading trailers or adding length to an existing conveyor. Unlike flexible-frame conveyors, roller spacing does not change when telescoping conveyors are expanded or collapsed. Telescoping conveyors have adjustable leg height and can provide a slope that keeps items moving along the rollers. Loads weighing 5 to 40 lb. require a slope of 4" to 6" per 10 ft. For loads over 40 lb., a slope of 2" to 4" per 10 ft. is adequate.

42X946

Overall Width	Between Frame Width	Min. Length	Max. Length	Roller Spacing	Load Capacity @ 10 ft. Centers	Roller Dia.	Item No.
31 ¼ in	24 in	14 ft	40 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X946**
		14 ft 8 in	50 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X948**
		16 ft 4 in	60 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X950**
39 ¼ in	30 in	14 ft	40 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X947**
		14 ft 8 in	50 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X949**
		16 ft 4 in	60 ft	1 ½ in	140 lb/ft	1 ⅜ in	**42X951**

Find more information on Ashland Conveyor Rollers on Grainger.com®.

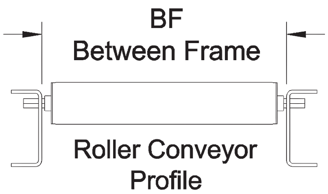
Lightweight
1VAU6

Corrosion Resistant
1VBE5

Sprocketed
42X971

High Performance
1VBL2

Nonmarring
1VAT4



ASHLAND CONVEYOR PRODUCTS

Conveyor Rollers

Replacement rollers support and move bulky items on roller conveyors and material transport stands. They help reduce the effort required to move loads.

Lightweight—Commonly used in unpowered (gravity-flow) conveying applications.

General Purpose—For light-duty and medium-duty unpowered (gravity-flow) conveying tasks in warehousing, package handling, manufacturing, and distribution applications.

Corrosion Resistant—Stainless steel conveyor rollers can withstand frequent washdowns, high humidity, exposure to corrosive chemicals, and other harsh conditions that might corrode steel or aluminum rollers. Suitable for conveying applications in facilities that process food, chemicals, or pharmaceuticals.

Sprocketed—For moving heavy items such as pallets, drums, and bulk containers on heavy-duty chain-drive conveyors. Sprocketed rollers have teeth that engage with the drive chain to prevent slipping in dirty or oily conditions.

High Performance—For high-speed conveying tasks on powered conveyor systems in warehousing, transportation, and sorting operations.

High Durability—Have a higher weight capacity and provide more resistance to impact, shock, and abrasion than general purpose steel rollers. For conveying heavy loads such as pallets, drums, and castings.

Nonmarring—Covered with smooth plastic to prevent damaging delicate surfaces or finishes on conveyed items, such as glass or paint. They are quieter than rollers with metal surfaces, and they also provide better traction.

BF	Roller Load Cap.	Material†	Item No.
Lightweight			
1 15/16 in Roller Dia. with 1/4 in Round Axle			
7 in	130 lb	A	1VAW2
10 in	130 lb	A	1VAW3
13 in	107 lb	A	1VAW4
16 in	86 lb	A	1VAW5
18 in	76 lb	A	1VAW6
22 in	62 lb	A	1VAW7
1 3/8 in Roller Dia. with 1/4 in Round Axle			
7 in	94 lb	A	1VAT8
10 in	94 lb	A	1VAT9
13 in	71 lb	A	1VAU1
15 in	60 lb	A	1VAU2
16 in	56 lb	A	1VAU3
19 in	47 lb	A	1VAU4
21 in	42 lb	A	1VAU5
22 in	40 lb	A	1VAU6
General Purpose			
1 15/16 in Roller Dia. with 1/4 in Round Axle			
7 in	130 lb	GS	1VAW9
10 in	130 lb	GS	1VAX1
13 in	107 lb	GS	1VAX2
15 in	92 lb	GS	1VAX3
17 in	81 lb	GS	1VAX4
18 in	76 lb	GS	1VAX5
22 in	62 lb	GS	1VAX6
24 in	57 lb	A	1VAW8
24 in	57 lb	GS	1VAX7
1 15/16 in Roller Dia. with 7/16 in Hex Axle			
7 in	270 lb	GS	24K702
8 in	270 lb	GS	24K703
9 in	270 lb	GS	24K704
10 in	270 lb	GS	1PDL5
11 in	270 lb	GS	24K705
12 in	270 lb	GS	24K706
13 in	270 lb	GS	1VAX8
14 in	270 lb	GS	24K707
15 in	270 lb	GS	1VAX9
16 in	270 lb	GS	1PDL6
17 in	270 lb	GS	1VAY1
18 in	270 lb	GS	1VAY2
19 in	270 lb	GS	1VAY3
20 in	657 lb	GS	1VBA4
21 in	539 lb	GS	1VBA5
22 in	270 lb	GS	1PDL7
23 in	270 lb	GS	1VAY6
24 in	270 lb	GS	1VAY7
25 in	270 lb	GS	1VAY8
27 in	270 lb	GS	1VAY9
30 in	270 lb	GS	1VAZ1
31 in	270 lb	GS	1VAZ2
33 in	270 lb	GS	1VAZ3
34 in	270 lb	GS	24K712
36 in	270 lb	GS	1PDL8
37 in	270 lb	GS	1VAZ4
38 in	270 lb	GS	24K714
39 in	270 lb	GS	1VAZ5
40 in	270 lb	GS	24K715
43 in	270 lb	GS	24K718
45 in	270 lb	GS	24K720
48 in	261 lb	GS	24K723
49 in	256 lb	GS	24K724
51 in	241 lb	GS	24K726
1 3/8 in Roller Dia. with 1/4 in Round Axle			
7 in	94 lb	GS	1VAU7
10 in	94 lb	GS	1PDL2
13 in	71 lb	GS	1VAU8
15 in	60 lb	GS	1VAU9
16 in	56 lb	GS	1PDL3
19 in	47 lb	GS	1VAV1
21 in	42 lb	GS	1VAV2
22 in	40 lb	GS	1PDL4
2 1/2 in Roller Dia. with 7/16 in Hex Axle			
10 in	496 lb	US	2WKH9
13 in	496 lb	GS	38AP34
13 in	496 lb	US	2WKJ1
15 in	496 lb	US	2WKJ2
16 in	496 lb	GS	38AP36
16 in	496 lb	US	2WKJ3
18 in	443 lb	GS	38AP38
18 in	443 lb	US	2WKJ5
19 in	418 lb	US	2WKJ6
20 in	395 lb	US	2WKJ7
21 in	375 lb	US	2WKJ8
24 in	326 lb	US	2WKK2
27 in	288 lb	US	2WKK4
30 in	258 lb	US	2WKK5
33 in	234 lb	US	2WKK7
39 in	197 lb	GS	38AP52
Corrosion Resistant			
1 15/16 in Roller Dia. with 7/16 in Hex Axle			
10 in	260 lb	SS	1VBD1
13 in	260 lb	SS	1VBD2
16 in	260 lb	SS	1VBD4
19 in	260 lb	SS	1VBD7
20 in	260 lb	SS	1VBD8
22 in	260 lb	SS	1VBE1
27 in	260 lb	SS	1VBE5
31 in	260 lb	SS	1VBE7
33 in	260 lb	SS	1VBE8
36 in	260 lb	SS	1VBE9
37 in	260 lb	SS	1VBF1
Sprocketed			
2 1/2 in Roller Dia. with 11/16 in Hex Axle			
43 in	702 lb	US	42X969
51 in	587 lb	US	42X971
High Performance			
1 15/16 in Roller Dia. with 7/16 in Hex Axle			
7 in	1,031 lb	GS	24K727
8 in	1,515 lb	GS	24K728
9 in	1,330 lb	GS	24K729
10 in	1,185 lb	GS	1VAZ6
11 in	1,069 lb	GS	24K730
12 in	973 lb	GS	24K731
13 in	893 lb	GS	1VAZ7
14 in	825 lb	GS	24K732
15 in	767 lb	GS	1VAZ8
16 in	717 lb	GS	1VAZ9
17 in	672 lb	GS	1VBA1
18 in	633 lb	GS	1VBA2
19 in	598 lb	GS	1VBA3
20 in	270 lb	GS	1VAY4
21 in	270 lb	GS	1VAY5
22 in	514 lb	GS	1VBA6
23 in	491 lb	GS	1VBA7
24 in	469 lb	GS	1VBA8
25 in	450 lb	GS	1VBA9
26 in	433 lb	GS	24K733
27 in	416 lb	GS	1VBB1
28 in	402 lb	GS	24K734
29 in	388 lb	GS	24K735
30 in	374 lb	GS	1VBB2
32 in	349 lb	GS	24K736
33 in	338 lb	GS	1VBB4
34 in	328 lb	GS	24K737
36 in	309 lb	GS	1VBB5
37 in	301 lb	GS	1VBB6
38 in	292 lb	GS	24K739
39 in	285 lb	GS	1VBB7
40 in	278 lb	GS	24K740
41 in	271 lb	GS	24K741
42 in	264 lb	GS	24K742
43 in	258 lb	GS	24K743
45 in	246 lb	GS	24K745
46 in	240 lb	GS	24K746
48 in	229 lb	GS	24K748
49 in	225 lb	GS	24K749
50 in	221 lb	GS	24K750
High Durability			
1 15/16 in Roller Dia. with 7/16 in Hex Axle			
10 in	270 lb	GS	1VBG7
10 in	270 lb	US	2WKF7
13 in	270 lb	GS	1VBG8
13 in	270 lb	US	2WKF8
15 in	270 lb	GS	1VBG9
15 in	270 lb	US	2WKF9
16 in	270 lb	US	2WKG1
16 in	270 lb	GS	1VBH1
18 in	270 lb	GS	1VBH3
18 in	270 lb	US	2WKG3
19 in	270 lb	GS	1VBH4
19 in	270 lb	US	2WKG4
20 in	270 lb	US	2WKG5
20 in	270 lb	GS	1VBH5
21 in	270 lb	GS	1VBH6
21 in	270 lb	US	2WKG6
22 in	270 lb	GS	1VBH7
22 in	270 lb	US	2WKG7
23 in	270 lb	GS	1VBH8
24 in	270 lb	GS	1VBH9
24 in	270 lb	US	2WKG9
25 in	270 lb	GS	1VBJ1
25 in	270 lb	US	2WKH1
27 in	270 lb	GS	1VBJ2
27 in	270 lb	US	2WKH2
31 in	270 lb	GS	1VBJ4
33 in	270 lb	US	2WKH5
33 in	270 lb	GS	1VBJ5
37 in	270 lb	US	2WKH7
2 1/2 in Roller Dia. with 11/16 in Hex Axle			
7 in	850 lb	US	24K752
7 in	850 lb	GS	24K789
8 in	850 lb	US	24K753
8 in	850 lb	GS	24K790
10 in	850 lb	GS	24K791
10 in	850 lb	US	24K754
11 in	850 lb	GS	24K792
11 in	850 lb	US	24K755
12 in	850 lb	US	24K756
12 in	850 lb	GS	24K793
13 in	850 lb	GS	1VBL9
13 in	850 lb	US	1VBK1
14 in	850 lb	GS	24K794
14 in	850 lb	US	24K757
15 in	850 lb	GS	1VBN1
15 in	850 lb	US	1VBK2
16 in	850 lb	US	24K758
16 in	850 lb	GS	24K795
18 in	850 lb	GS	24K796
18 in	850 lb	US	24K759
19 in	850 lb	US	1VBK4
19 in	850 lb	GS	1VBN3
20 in	850 lb	US	24K760
20 in	850 lb	GS	24K797
21 in	850 lb	GS	1VBN4
21 in	850 lb	US	1VBK5
22 in	850 lb	US	24K761
22 in	850 lb	GS	24K798
23 in	850 lb	US	1VBK6
23 in	850 lb	GS	1VBN5
24 in	850 lb	US	24K762
24 in	850 lb	GS	24K799
26 in	850 lb	US	24K763
26 in	850 lb	GS	24K801
27 in	850 lb	US	1VBK8
27 in	850 lb	GS	1PDL9
28 in	850 lb	US	24K764
28 in	850 lb	GS	24K802
31 in	850 lb	US	1VBL1
31 in	850 lb	GS	1VBN8
32 in	850 lb	GS	24K804
32 in	850 lb	US	24K766
33 in	850 lb	GS	1VBN9
33 in	850 lb	US	1VBL2
34 in	850 lb	GS	24K805
34 in	850 lb	US	24K767
36 in	846 lb	GS	24K807
36 in	846 lb	US	24K769
37 in	822 lb	US	1VBL3
37 in	822 lb	GS	1VBP1
38 in	799 lb	US	24K770
38 in	799 lb	GS	24K808
39 in	777 lb	GS	1VBP2
39 in	777 lb	US	1VBL4
40 in	757 lb	US	24K771
40 in	757 lb	GS	24K809
41 in	738 lb	US	24K772
41 in	738 lb	GS	24K810
42 in	719 lb	GS	24K811
42 in	719 lb	US	24K773
43 in	702 lb	GS	1VBP3
43 in	702 lb	US	1VBL5
44 in	685 lb	GS	24K812
44 in	685 lb	US	24K774
45 in	669 lb	US	24K775
45 in	669 lb	GS	24K813
46 in	654 lb	US	24K776
46 in	654 lb	GS	24K814
48 in	626 lb	GS	24K815
48 in	626 lb	US	24K777
49 in	612 lb	GS	24K816
49 in	612 lb	US	24K778
50 in	600 lb	US	24K779
50 in	600 lb	GS	24K817
2 5/8 in Roller Dia. with 11/16 in Hex Axle			
13 in	850 lb	US	1VBP6
15 in	850 lb	US	1VBP7
19 in	850 lb	US	1VBP9
21 in	850 lb	US	1VBR1
23 in	850 lb	US	1VBR2
27 in	850 lb	US	1VBR4
31 in	850 lb	US	1VBR6
33 in	850 lb	US	1VBR7
37 in	822 lb	US	1VBR8
39 in	777 lb	US	1VBR9
43 in	702 lb	US	1VBT1
Nonmarring			
1 15/16 in Roller Dia. with 7/16 in Hex Axle			
10 in	60 lb	PVC	1VBB8
10 in	270 lb	GS	42X933
13 in	60 lb	PVC	1VBB9
16 in	60 lb	PVC	1VBC2
16 in	270 lb	GS	42X936
17 in	60 lb	PVC	1VBC3
18 in	60 lb	PVC	1VBC4
21 in	53 lb	PVC	1VBC6
21 in	270 lb	GS	42X940
22 in	48 lb	PVC	1VBC7
24 in	40 lb	PVC	1VBC8
24 in	270 lb	GS	42X942
30 in	25 lb	PVC	1VBC9
13/16 in Roller Dia. with 1/4 in Round Axle			
4 in	20 lb	PVC	1VAT3
6 in	20 lb	PVC	1VAT4
10 in	20 lb	PVC	1VAT6

† A=Aluminum, GS=Galvanized Steel, PVC=PVC Plastic, SS=Stainless Steel, US=Unfinished Steel

For Axle	Bearing OD	Flange Outside Dia.	Overall Width	Bearing Load Rating	Item No.
Close-Tolerance Conveyor Roller Bearings					
7/16 in Hex	1.5 in	1 5/8 in	1/2 in	175 lb	**22FA90**
1/2 in Hex	1.5 in	1 5/8 in	11/16 in	175 lb	**22FA94**
3/4 in Hex	2 in	2 13/16 in	3/4 in	240 lb	**22FA96**
General Purpose Conveyor Roller Bearings					
1/4 in Hex	0.878 in	15/16 in	3/8 in	40 lb	**22FA33**
5/16 in Round	0.878 in	15/16 in	3/8 in	40 lb	**22FA34**
5/16 in Hex	0.908 in	1 in	7/16 in	35 lb	**22FA31**
	1.277 in	1 3/8 in	5/8 in	47 lb	**22FA39**
3/8 in Hex	0.908 in	1 in	7/16 in	35 lb	**22FA32**
7/16 in Hex	1.502 in	1 5/8 in	3/4 in	145 lb	**22FA45**
	1.703 in	1 7/8 in	1/2 in	140 lb	**22FA58**
	1.712 in	—	11/16 in	300 lb	**22FA55**
	1.753 in	1 7/8 in	5/8 in	140 lb	**22FA52**
	1.78 in	1 7/8 in	1/2 in	140 lb	**22FA59**
1/2 in Round	1.502 in	1 5/8 in	3/4 in	145 lb	**22FA46**
5/8 in Hex	1.958 in	—	1 3/16 in	200 lb	**22FA98**
	2 in	2 1/8 in	1 in	225 lb	**22FA61**
11/16 in Hex	2.27 in	2 7/16 in	1 3/16 in	425 lb	**22FA62**
	2.329 in	—	3/8 in	300 lb	**22FA99**
1 1/16 in Hex	3.066 in	—	1 1/8 in	603 lb	**22FA72**

For Axle	Bearing OD	Flange Outside Dia.	Overall Width	Bearing Load Rating	Item No.	
Heavy-Duty Precision Conveyor Roller Bearings						
11/16 in Hex	2.256 in	2 1/2 in	1 1/8 in	1500 lb	**22FA66**	
	2.265 in	2 1/2 in	1 1/2 in	2450 lb	**22FA81**	*
	2.265 in	—	1 1/2 in	2450 lb	**22FA79**	*
1 1/16 in Hex	3.073 in	—	11/16 in	4300 lb	**22FA82**	
Sealed Close-Tolerance Conveyor Roller Bearings for Harsh Environments						
3/8 in Hex	1.125 in	1 1/4 in	1/2 in	80 lb	**22FA87**	
7/16 in Hex	1.375 in	1 1/2 in	9/16 in	140 lb	**22FA89**	
	1.75 in	1 7/8 in	11/16 in	195 lb	**22FA91**	
	2.125 in	2 1/4 in	3/4 in	330 lb	**22FA93**	
5/8 in Hex	1.75 in	1 7/8 in	13/16 in	195 lb	**22FA95**	
Sealed General Purpose Conveyor Roller Bearings for Harsh Environments						
7/16 in Hex	1.53 in	1 5/8 in	11/16 in	145 lb	**22FA44**	
	1.628 in	1 3/4 in	11/16 in	125 lb	**22FA50**	
	1.879 in	2 in	13/16 in	190 lb	**22FA60**	
11/16 in Hex	2.26 in	2 1/2 in	1 1/8 in	1000 lb	**22FA80**	
	2.27 in	2 7/16 in	1 3/16 in	425 lb	**22FA63**	
	2.27 in	2 7/16 in	1 3/16 in	425 lb	**22FA64**	
	2.27 in	2 7/16 in	1 3/16 in	425 lb	**22FA65**	
	2.27 in	2 7/16 in	1 3/16 in	425 lb	**22FA71**	
1 1/16 in Hex	3.066 in	—	1 1/4 in	603 lb	**22FA73**	
	3.066 in	—	1 1/4 in	603 lb	**22FA74**	*
	3.066 in	—	1 3/16 in	603 lb	**22FA75**	
	3.066 in	—	1 1/4 in	603 lb	**22FA76**	

** Relube holes on inner race.*

USDI

Conveyor Roller Bearings

Replace worn or damaged bearings to repair seized rollers and prevent conveyor downtime or malfunction. Sealed bearings prevent dirt and moisture from causing damage and malfunction in wet, humid, dirty, or hot conditions. Close-tolerance bearings fit tighter than general purpose bearings to spin more freely and at higher speeds.

Surface Mount L-Shaped Conveyor Mounting Brackets

ASHLAND CONVEYOR PRODUCTS

Bolt-on, steel construction allows conveyor rollers to be mounted without a conveyor system. L-brackets are commonly used to build custom conveying racks and stands for supporting and moving materials in sawing, machining, and metalworking operations. Mounting hardware sold separately.

For Axle Shape	For Axle Size	Item No.
Round	1/4 in	**42X888**
Hex	5/16 in	**42X889**
Hex	7/16 in	**42X890**
Hex	11/16 in	**42X891**

For Roller Diameter	Overall Length	I.D. Before Shrinking	I.D. After Shrinking	Roller Cover Material	Color	Item No.	
Straight							
1 3/8 in	5 ft	1 1/2 in	3/4 in	PVC	Black	**11A352**	
	5 ft	1 1/2 in	3/4 in	PVC	Orange	**11A356**	
1 29/32 to 2 in	5 ft	2 1/16 in	1 in	Elastomer	Black	**49U108**	
	50 ft	2 1/16 in	1 in	Elastomer	Black	**49U109**	
2 in	5 ft	2 1/16 in	1 in	PVC	Black	**11A353**	
	5 ft	2 1/16 in	1 in	PVC	Orange	**11A357**	
	5 ft	2 1/16 in	1 in	PVC	White	**11C791**	*
2 1/2 in	5 ft	2 9/16 in	1 1/2 in	PVC	Black	**11A354**	
	5 ft	2 9/16 in	1 1/2 in	PVC	Orange	**11A358**	
Tapered							
2 1/2 in	5 ft	2 9/16 in	1 1/4 in	PVC	Black	**11A355**	
	5 ft	2 9/16 in	1 1/4 in	PVC	Orange	**11A359**	

** Meets FDA 21 CFR Standards for food-grade applications.*

Find more Conveyor Roller Cover styles at Grainger.com®.

VINYL GUARD®

Heat Shrink Conveyor Roller Covers

Tubing shrinks via heat gun to fit tightly over straight and tapered rollers. Protects delicate surfaces and reduces noise and vibration. Resistant to abrasion, chemicals, oils, grease, acids, chlorinated cleansers, moisture, and corrosion. Easy to clean. 49U108 and 49U109 are made from elastomer, which grips conveyed items as they pass over the roller and prevents them from slipping on the conveyor.

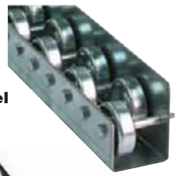
Flow Rails

ASHLAND CONVEYOR PRODUCTS

Each straight flow rail has a single row of skate wheels, ball transfers, or rollers to guide cartons, totes, pallets, and other flat-bottomed items in conveying applications. Multiple flow rails can be installed side by side to create a flow rack, and they can also be mounted to surfaces, floors, or walls. Skate wheels attach to channel shapes or angles.

Note: Recommended 3-wheel min. under load.

Flange Side	Overall Length	Overall Width	Wheels per Ft.	Wheel Alignment	Wheel Dia.	Skate Wheel Material	Item No.
Light-Duty Controlled-Tracking Flanged Skate Wheel Flow Rails							
35 lb/ft (5 ft Supports) Max. Capacity							
Left Hand	10 ft	3 13/16 in	4	Inline	1 5/8 in	Plastic	**42X990**
40 lb/ft (5 ft Supports) Max. Capacity							
Left Hand	5 ft	4 7/8 in	4	Inline	2 in	Steel	**42X992**
Right Hand	10 ft	4 7/8 in	4	Inline	2 in	Steel	**42X993**
Light-Duty General Purpose Skate Wheel Flow Rails							
35 lb/ft (5 ft Supports) Max. Capacity							
—	5 ft	3 in	4	Inline	1 5/8 in	Plastic	**42X985**
—	10 ft	3 in	4	Inline	1 5/8 in	Plastic	**42X986**
195 lb/ft (5 ft Supports) Max. Capacity							
—	5 ft	2 1/4 in	4	Inline	1 15/16 in	Steel	**2WGY5**
—	5 ft	2 13/16 in	4	Inline	1 15/16 in	Steel	**2WGY7**
—	5 ft	2 1/4 in	8	Staggered	1 15/16 in	Steel	**2WGY4**
—	10 ft	2 1/4 in	4	Inline	1 15/16 in	Steel	**2WGY9**
—	10 ft	2 1/4 in	8	Staggered	1 15/16 in	Steel	**2WGY8**
250 lb/ft (5 ft Supports) Max. Capacity							
—	5 ft	5 1/4 in	16	Staggered	1 15/16 in	Steel	**42X931**
—	10 ft	5 1/4 in	16	Staggered	1 15/16 in	Steel	**42X930**
260 lb/ft (5 ft Supports) Max. Capacity							
—	5 ft	3 5/8 in	8	Staggered	1 15/16 in	Steel	**2WGY6**
—	10 ft	2 13/16 in	4	Inline	1 15/16 in	Steel	**1PDF8**
—	10 ft	3 5/8 in	8	Staggered	1 15/16 in	Steel	**1PDF9**



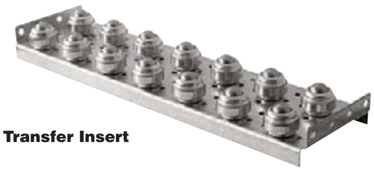
Overall Length	Overall Width	Ball Spacing	Ball Diameter	Ball Material	THREADED STUD BALL Item No.	FLANGE BALL Item No.
Light-Duty Multi-Directional Ball Transfer Flow Rails						
120 lb/ft (5 ft Supports) Max. Capacity						
5 ft	2 in	2 in	5/8 in	Steel	**42X929** *	—
5 ft	2 1/2 in	6 in	1 in	Steel	**2WGX8**	**2TVR3**
5 ft	2 1/2 in	3 in	1 in	Steel	**2LTZ1**	**2TVR2**
10 ft	2 1/2 in	6 in	1 in	Steel	**2WGY3**	**2WGY2**

Overall Length	Overall Width	Roller Spacing	Roller Dia.	Roller Material	Item No.
Heavy-Duty Roller Flow Rails					
1050 lb/ft (5 ft Supports) Max. Capacity					
5 ft	7 in	3 in	2 1/2 in	Steel	**42X928**
10 ft	7 in	3 in	2 1/2 in	Steel	**42X927**

** Low profile.*

Find more information on Ball Transfer Table selection on Grainger.com®.

Ball Transfer Table
(H-Stand Sold Separately)



Ball Transfer Insert

Overall Width	Between Frame Width	Overall Length	Load Capacity @ 5 ft. Centers	Ball Load Capacity	Item No.
Ball Transfer Tables					
3 in Ball Spacing					
12 ¾ in	10 in	2 ft	600 lb/ft	75 lb	**42X844**
24 ¾ in	22 in	2 ft	600 lb/ft	75 lb	**3MY65**
29 ¾ in	27 in	3 ft	350 lb/ft	75 lb	**42X850**
29 ¾ in	27 in	4 ft	350 lb/ft	75 lb	**42X852**
38 ¾ in	36 in	4 ft	500 lb/ft	75 lb	**3MY73**
4 in Ball Spacing					
12 ¾ in	10 in	1 ft	600 lb/ft	75 lb	**42X843**
24 ¾ in	22 in	2 ft	500 lb/ft	75 lb	**42X838**
24 ¾ in	22 in	3 ft	500 lb/ft	75 lb	**42X839**
24 ¾ in	22 in	4 ft	500 lb/ft	75 lb	**42X840**
29 ¾ in	27 in	3 ft	350 lb/ft	75 lb	**42X851**
29 ¾ in	27 in	4 ft	350 lb/ft	75 lb	**42X853**
38 ¾ in	36 in	4 ft	250 lb/ft	75 lb	**42X841**
Ball Transfer Inserts					
2 in Ball Spacing					
—	27 in	5 ⅞ in	175 lb/ft	75 lb	**42X855**
3 in Ball Spacing					
—	10 in	5 ⅞ in	—	75 lb	**3MY67**
—	13 in	5 ⅞ in	375 lb/ft	75 lb	**42X854**
—	16 in	5 ⅞ in	—	75 lb	**3MY74**
—	22 in	5 ⅞ in	250 lb/ft	75 lb	**3MY75**
—	36 in	5 ⅞ in	125 lb/ft	75 lb	**3MY76**
Replacement Ball Transfer					
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing					
—	—	—	—	75 lb	**3MY68**

ASHLAND CONVEYOR PRODUCTS

Ball Transfer Tables

- Steel ball construction
- H-stands sold separately

Ball transfer tables have ball transfers attached to rigid frames. They allow flat-bottomed loads to roll from one place to another, reducing the effort required to move loads. Ball transfers allow loads to move in all directions, and are typically installed at the start and end of conveyor systems, or at points where loads need to change direction.

Note: The length and width of the smallest conveyed item should be at least three times the table's ball spacing dimension, and the heaviest conveyed item must weigh less than the combined capacity of the ball transfers supporting it.

BALL TRANSFER TABLES

Tables attach to compatible medium-duty roller conveyors and stands to allow conveyed items to move in all directions at transition points.

BALL TRANSFER INSERTS

Can replace rollers in light- and medium-duty roller conveyor sections. Inserts are plates with ball transfers attached.

Countersunk Flange
1YXB2

Drop-In
1PDY2

Flange
1PDY3

Internally Threaded Pipe
2WHD1

Threaded Stud
3MY68

ASHLAND CONVEYOR PRODUCTS

Ball Transfers

Replace existing ball transfers in ball transfer tables, inserts, and stands, or use to create a custom conveying installation. Mount at conveyor entrances, intersections, or exits to reduce the effort required for moving loads in warehousing, package handling, manufacturing, and distribution applications.

Countersunk Flange Style—Each has a flanged mounting plate that installs into a countersunk hole for limited-space applications. They fasten from the front.

Drop-in Style—Designed to press-fit into drilled holes without fasteners. Low profile, for limited-space applications.

Flange Style—Each has a flanged mounting plate that fastens in place from the front.

Internally Threaded Pipe Style—Transfers mount onto externally threaded NPT pipe couplings. Commonly installed on pipe pedestals to position materials for metal-forming machinery such as shears or press breaks.

Threaded Stud Style—Each has a threaded stud that screws into a tapped hole and secures with a nut. They fasten from the back.

Ball Diameter	Ball Load Capacity	Projection	Housing Diameter	Item No.
Countersunk Flange				
Carbon Steel Ball with Black Oxide Steel Housing				
1 in	135 lb	5⁄16 in	1 3⁄16 in	**38LU63**
1 in	150 lb	3⁄16 in	1 3⁄16 in	**2WGZ9**
1 ⅛ in	200 lb	3⁄16 in	1 ¼ in	**2WGZ2**
1 ¼ in	225 lb	1 ½ in	2 in	**38LU59**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
⅝ in	20 lb	⅜ in	15⁄16 in	**1YXB2**
1 in	75 lb	⅝ in	1 ½ in	**1YXB7**
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1 in	35 lb	¾ in	1 ¾ in	**1YXB3**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1 in	75 lb	⅝ in	2 ¼ in	**1YXB8**
1 in	75 lb	¾ in	1 ¾ in	**1YXB5**
Drop-In				
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
⅝ in	33 lb	⅜ in	1 3⁄16 in	**1PDY2**
1 in	200 lb	⅝ in	1 43⁄64 in	**1PDX9**
1 3⁄16 in	500 lb	½ in	2 in	**1PDY4**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1 3⁄16 in	500 lb	½ in	2 in	**1PDY8**
Flange				
Carbon Steel Ball with Black Oxide Steel Housing				
1 in	135 lb	¼ in	1 3⁄16 in	**38LU65**
1 in	135 lb	¼ in	1 3⁄16 in	**38LU68**
1 ⅛ in	180 lb	5⁄16 in	1 5⁄16 in	**38LU66**
1 ¼ in	225 lb	⅜ in	1 7⁄16 in	**38LU67**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
1 in	75 lb	5⁄16 in	1 11⁄16 in	**3MY77**
1 ½ in	250 lb	1 13⁄16 in	2 9⁄16 in	**1PDY3**
1 ½ in	250 lb	2 1⁄16 in	2 9⁄16 in	**1YXA9** *
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1 in	35 lb	5⁄16 in	1 11⁄16 in	**3MY78**
1 ½ in	125 lb	1 3⁄16 in	2 9⁄16 in	**1YXA6**
Nylon Ball with Stainless Steel Housing				
1 in	35 lb	1 3⁄16 in	1 11⁄16 in	**1YXA4**
1 ½ in	125 lb	1 3⁄16 in	2 9⁄16 in	**1YXA7**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1 in	75 lb	1 3⁄16 in	1 11⁄16 in	**1YXA5**
1 ½ in	250 lb	1 13⁄16 in	2 9⁄16 in	**1YXA8**
Stainless Steel Ball with Stainless Steel Housing				
1 in	75 lb	1 3⁄16 in	1 11⁄16 in	**1PDY6**
1 ½ in	250 lb	1 13⁄16 in	2 9⁄16 in	**1PDY7**
1 ½ in	250 lb	2 1⁄16 in	2 9⁄16 in	**1YXB1** *
Flange/Threaded-Stud				
Carbon Steel Ball with Black Oxide Steel Housing				
1 ⅛ in	200 lb	5⁄16 in	1 5/6 in	**38LU69**

** Includes cushion.*

Ball Diameter	Ball Load Capacity	Projection	Housing Diameter	Item No.
Internally Threaded Pipe				
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
1 ½ in	250 lb	3 13⁄16 in	3 in	**2WHD2**
Nylon Ball with Galvanized Zinc Plated Steel Housing				
1 ½ in	125 lb	3 13⁄16 in	3 in	**2WHD1**
Threaded Stud				
Carbon Steel Ball with Black Oxide Steel Housing				
1 in	150 lb	¼ in	1 3⁄16 in	**38LU72**
Carbon Steel Ball with Galvanized Zinc Plated Steel Housing				
⅝ in	33 lb	⅛ in	1 3⁄16 in	**1PDY1**
1 in	75 lb	1 ⅜ in	1 ¾ in	**3MY68**
1 in	75 lb	1 ⅜ in	1 ¾ in	**1YVZ7**
1 in	200 lb	¼ in	1 11⁄16 in	**1PDX7**
1 ½ in	250 lb	2 5⁄16 in	2 9⁄16 in	**1YXA2**
1 ½ in	250 lb	2 9⁄16 in	2 9⁄16 in	**1YXA3** *
Nylon Ball with Galvanized Zinc Plated Steel Housing				
⅝ in	17 lb	⅛ in	1 3⁄16 in	**1YVZ3**
1 in	35 lb	1 ⅜ in	1 ¾ in	**1PDY9**
1 in	35 lb	1 ⅜ in	1 ¾ in	**1YVZ5**
1 in	100 lb	1 ¼ in	1 ⅜ in	**1YXA1**
Nylon Ball with Stainless Steel Housing				
1 in	35 lb	1 ⅜ in	1 ¾ in	**1YVZ4**
Stainless Steel Ball with Galvanized Zinc Plated Steel Housing				
1 in	75 lb	1 ⅜ in	1 ¾ in	**1YVZ8**
Stainless Steel Ball with Stainless Steel Housing				
1 in	75 lb	1 ⅜ in	1 ¾ in	**1YVZ9**

Find more information on Conveyor Stand selection on Grainger.com®.

Roller Material Support and Transfer Tables

- 500-lb. load capacity

Portable roller tables provide stability to feed material into or out of machinery in machine shops, woodshops, and fabrication facilities. Table height can be adjusted to keep material aligned for the intended tool or process.

2YE11

Roller Width	Overall Width	Overall Length	Min. Height	Max. Height	Item No.
13 in	26 ½ in	1 ft 5 in	26 ½ in	43 ½ in	**2YE11**
22 in	15 in	5 ft 6 in	26 ½ in	43 ½ in	**4FE14**
23 ⅝ in	24 in	5 ft 6 in	26 ½ in	43 ½ in	**2YE12**

Material Support and Transfer Stands

33VE08

33VE16

Portable flat roller stands each have a single roller to support flat-bottomed sheets, planks, and bars. Portable V-roller stands each have two rollers in a V-shape to cradle cylindrical materials.

Overall Width	For Between Frame Width	Min. Height	Max. Height	Stand Load Capacity	Color	Item No.
Flat Roller						
15 5/16 in	14 in	23 in	38 ½ in	1,760 lb	Gray	**33VE10**
	14 in	27 in	42 in	1,760 lb	Gray	**33VE11**
16 ¾ in	16 ½ in	22 ½ in	35 ½ in	500 lb	White	**33VE08**
	16 ½ in	28 ½ in	47 ½ in	500 lb	White	**33VE09**
V-Roller						
12 ¾ in	8 ⅞ in	23 in	38 ⅛ in	1,760 lb	Gray	**33VE16**
	8 ⅞ in	27 in	42 in	1,760 lb	Gray	**33VE17**
16 ¾ in	8 ⅜ in	28 in	45 in	500 lb	White	**33VE13**

Temporary Tripod Conveyor Support Stands

3W432

- 400-lb. capacity

Stands can temporarily support straight or curved sections of gravity-flow skate wheel or light-duty roller conveyors. Height adjusts to create a level or sloped conveying surface.

For Between Frame Width	Min. Height	Max. Height	Overall Width	Item No.
10 in	16 in	27 in	12 in	**2WJL5**
	25 in	43 in	12 in	**3W432**
	42 in	60 in	12 in	**2WJL6**
13 in	16 in	27 in	15 in	**2WJL7**
	25 in	43 in	15 in	**2WJL8**
	42 in	60 in	15 in	**2WJL9**
16 in	16 in	27 in	18 in	**2WJN1**
	25 in	43 in	18 in	**3W433**
	42 in	60 in	18 in	**2WJN2**
22 in	16 in	27 in	24 in	**2WJN3**
	25 in	43 in	24 in	**3MY71**
	42 in	60 in	24 in	**2WJN4**

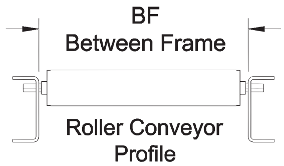
Low-Profile Permanent Mount Conveyor Support Stands

38AP28

- 2500-lb. load capacity per pair

Stands permanently mount light to extra-heavy duty conveyor sections close to the floor. Suitable for items that are too tall or too heavy to be lifted far off the ground.

Min. Height	Max. Height	Item No.
1 7/16 in	3 in	**38AP28**
2 11/16 in	4 3/16 in	**38AP29**
4 ⅜ in	5 in	**38AP30**
4 11/16 in	5 9/16 in	**38AP31**
5 9/16 in	6 5/16 in	**38AP32**



Portable Single-Tier

Stationary Multitier

ASHLAND CONVEYOR PRODUCTS

H-Style Conveyor Support Stands

Stands support conveyor sections and can be adjusted to create a level or sloped conveying surface. Pivoting mounting brackets allow sloped installations. Choose an H-stand based on between-frame (BF) dimension and duty rating.

Note: Range of adjusted height is to top of H-stand.

Note: For a stand-alone conveyor, a min. of two supports is required. For two sections of conveyor, a min. of three supports is required (the middle stand supports both sections).

PERMANENT H-STAND

Stands bolt to the floor to provide permanent support for powered or unpowered (gravity-flow) conveyors.

PERMANENT MULTI-TIER

Stands each have two tiers for gravity-flow skate wheel or roller conveyors. Can help create multi-level flow racks. Each level has adjustable height.

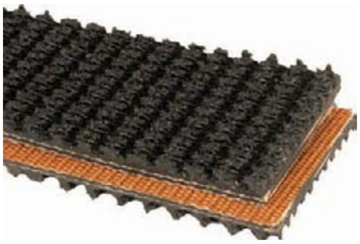
PORTABLE SINGLE-TIER

Stands have casters that make skate wheel and roller conveyor sections portable. Brakes prevent the stands from rolling when locked.

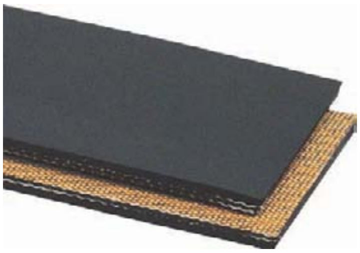
For Between Frame Width	Overall Width	Min. Height	Max. Height	Brand	Item No.
Portable Single-Tier					
Light- to Medium-Duty — 1,800 lb Load Cap.					
13 in	13 in	22 ⅞ in	32 ⅝ in	—	**2WJK3**
16 in	16 in	22 ⅞ in	32 ⅝ in	—	**1PDP3**
22 in	22 in	22 ⅞ in	32 ⅝ in	—	**1PDP4**
27 in	27 in	22 ⅞ in	32 ⅝ in	—	**2WJK4**
—	36 in	22 ⅞ in	32 ⅝ in	—	**1PDP5**
Permanent Mounted Multi-Tier H-Stand					
Light- to Extra Heavy-Duty — 2,500 lb Load Cap.					
10 in	10 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK3**
	10 in	3 ¾ in	82 in	Ashland Conveyor	**6GKL0**
13 in	13 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK4**
	13 in	3 ¾ in	82 in	Ashland Conveyor	**6GKL1**
16 in	16 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK5**
	16 in	3 ¾ in	82 in	Ashland Conveyor	**6DKX7**
22 in	22 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK6**
	22 in	3 ¾ in	82 in	Ashland Conveyor	**6DKX8**
27 in	27 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK7**
	27 in	3 ¾ in	82 in	Ashland Conveyor	**6DKX9**
31 in	31 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK8**
	31 in	3 ¾ in	82 in	Ashland Conveyor	**6DKY0**
36 in	36 in	3 ¾ in	46 in	Ashland Conveyor	**6GKK9**
Permanent Mounted H-Stand					
Light- to Medium-Duty — 1,500 lb Load Cap.					
10 in	10 in	19 ½ in	31 in	—	**5W812**
	10 in	31 in	43 in	—	**5W813**
	10 in	43 in	55 in	Ashland Conveyor	**42X892**
	10 in	55 in	67 in	Ashland Conveyor	**42X899**
	10 in	67 in	79 in	Ashland Conveyor	**42X907**
	10 in	79 in	109 in	Ashland Conveyor	**42X914**
13 in	13 in	19 ½ in	31 in	—	**2WJJ6**
	13 in	31 in	43 in	—	**2WJJ9**
	13 in	43 in	55 in	Ashland Conveyor	**42X893**
	13 in	55 in	67 in	Ashland Conveyor	**42X901**
	13 in	67 in	79 in	Ashland Conveyor	**42X908**
	13 in	79 in	109 in	Ashland Conveyor	**42X915**
16 in	17 in	19 ½ in	31 in	—	**5W814**
	16 in	31 in	43 in	—	**5W815**
	16 in	43 in	55 in	Ashland Conveyor	**42X894**
	16 in	55 in	67 in	Ashland Conveyor	**42X902**
	16 in	67 in	79 in	Ashland Conveyor	**42X909**
	16 in	79 in	109 in	Ashland Conveyor	**42X916**
22 in	22 in	31 in	43 in	—	**5W817**
	22 in	43 in	55 in	Ashland Conveyor	**42X895**
	22 in	55 in	67 in	Ashland Conveyor	**42X903**
	22 in	67 in	79 in	Ashland Conveyor	**42X910**
	22 in	79 in	109 in	Ashland Conveyor	**42X917**
27 in	27 in	19 ½ in	31 in	—	**2WJJ7**
	27 in	31 in	43 in	—	**2WJK1**
	27 in	43 in	55 in	Ashland Conveyor	**42X896**
	27 in	55 in	67 in	Ashland Conveyor	**42X904**
	27 in	67 in	79 in	Ashland Conveyor	**42X911**
	27 in	79 in	109 in	Ashland Conveyor	**42X918**
31 in	31 in	19 ½ in	31 in	—	**2WJJ8**
	31 in	31 in	43 in	—	**2WJK2**
	31 in	43 in	55 in	Ashland Conveyor	**42X897**
	31 in	55 in	67 in	Ashland Conveyor	**42X905**
	31 in	67 in	79 in	Ashland Conveyor	**42X912**
	31 in	79 in	109 in	Ashland Conveyor	**42X919**
36 in	36 in	19 ½ in	31 in	—	**5W818**
	36 in	31 in	43 in	—	**5W819**
	36 in	43 in	55 in	Ashland Conveyor	**42X898**
	36 in	55 in	67 in	Ashland Conveyor	**42X906**
	36 in	67 in	79 in	Ashland Conveyor	**42X913**
	36 in	79 in	109 in	Ashland Conveyor	**42X920**
Heavy-Duty — 3,000 lb Load Cap.					
13 in	13 in	16 ½ in	26 ¼ in	—	**2WJK8**
	13 in	25 ¾ in	36 ¾ in	—	**2WJL2**
21 in	21 in	16 ½ in	26 ¼ in	—	**2WJK9**
	21 in	25 ¾ in	36 ¾ in	—	**2WJL3**
27 in	27 in	25 ¾ in	36 ¾ in	—	**1PDR1**
39 in	39 in	25 ¾ in	36 ¾ in	—	**2WJL4**
51 in	51 in	12 ¼ in	17 in	—	**1PDP7**
	54 in	25 ¾ in	36 ¾ in	—	**1PDR2**
Extra Heavy-Duty — 5,000 lb Load Cap.					
27 in	27 in	17 in	27 ¼ in	Ashland Conveyor	**42X979**
	27 in	25 in	41 ½ in	Ashland Conveyor	**42X982**
39 in	39 in	17 in	27 ¼ in	Ashland Conveyor	**42X980**
	39 in	25 in	41 ½ in	Ashland Conveyor	**42X983**
51 in	51 in	17 in	27 ¼ in	Ashland Conveyor	**42X981**
	51 in	25 in	41 ½ in	Ashland Conveyor	**42X984**

For Between Frame Width	Brand	Item No.
Tier Addition Kits for Light- to Extra Heavy-Duty Conveyors		
13 in	Ashland Conveyor	**6DKY3**
16 in	Ashland Conveyor	**6DKY4**
27 in	Ashland Conveyor	**6DKY6**
31 in	Ashland Conveyor	**6DKY7**
36 in	Ashland Conveyor	**6DKY8**

High-Grip



Oil-Resistant



Cleated

Multi-Ply Conveyor Belting

Constructed with an internal layer of strong, woven fabric surrounded by protective top and bottom covers. Replace a worn or damaged conveyor belt to prevent belt malfunction and conveyor downtime. Belts priced by the foot; minimum order quantity of 15 ft. All belts on this page are black; additional color options available on Grainger.com®.

Low-Friction—Coated to reduce friction so items can slide freely when diverted. It can also travel under accumulated items without damaging them.

Light-Duty—Suitable for conveying lightweight packages with intermittent use.

High-Grip—Textured or coated to increase friction between the belt surface and conveyed items. Suitable for moving items up an incline or keeping items from sliding side-to-side on the belt.

Oil-Resistant—Resists absorbing oils from conveyed items or production environments. Suitable for manufacturing facilities and similar applications with oil exposure.

Low-Stretch—Resists stretching and reduces the chance that the belt will move or slip during conveying tasks. Suitable for applications that require proper belt tension as items are conveyed.

Extreme-Temperature—Withstands exposure to very high or very low temperatures. Suitable for conveying very hot or very cold items and for moving items in industrial refrigerators, freezers, or ovens.

Fire-Retardant—Coated to resist ignition when exposed to flames. Suitable for environments with flammable materials, such as grain elevators and wood shops.

Heavy-Duty—Can withstand demanding conveying applications with heavy loads or continuous use.

Cleated—Has raised ridges that grab items more effectively than high-grip belting. Suitable for moving loose items up a steep incline while preventing them from rolling or sliding off the belt edge.

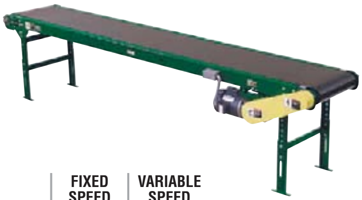
Conveyor Belt Material	Belt Thickness	For Minimum Pulley Diameter	Maximum Working Tension	Top Surface	6"W Item No.	8"W Item No.	10"W Item No.	12"W Item No.	14"W Item No.	16"W Item No.	18"W Item No.	20"W Item No.	24"W Item No.	30"W Item No.	36"W Item No.
Low-Friction															
PVC	3/32 in	4 in	150 piw	Friction	36TC99	36TD01	36TD02	36TD03	36TD04	36TD05	36TD06	36TD07	36TD08	36TD09	36TD10
	7/64 in	3 in	120 piw	Friction	36TA03	36TA04	36TA05	36TA06	36TA07	36TA08	36TA09	36TA10	36TA11	36TA12	36TA13
Light-Duty															
PVC	5/64 in	1 ½ in	60 piw	Smooth	36TA33	36TA34	36TA35	36TA36	36TA37	36TA38	36TA39	36TA40	36TA41	36TA42	36TA43
High-Grip															
Polyester	1/8 in	2 in	100 piw	Embossed	36TK36	36TK37	36TK38	36TK39	36TK40	36TK41	36TK42	36TK43	36TK44	36TK45	36TK46
	1/8 in	2 in	100 piw	Lattice Top	36TL57	36TL58	36TL59	36TL60	36TL61	36TL62	36TL63	36TL64	36TL65	36TL66	36TL67
	3/16 in	3 in	150 piw	Roughtop	36TL72	36TL73	36TL74	36TL75	36TL76	36TL77	36TL78	36TL79	36TL80	36TL81	36TL82
	5/16 in	2 in	150 piw	Steep-Grade	36TM63	36TM64	36TM65	36TM66	36TM67	36TM68	36TM69	36TM70	36TM71	36TM72	36TM73
PVC	3/32 in	1 ½ in	100 piw	Longitudinal Rib	36TG33	36TG34	36TG35	36TG36	36TG37	36TG38	36TG39	36TG40	36TG41	36TG42	36TG43
	7/64 in	1 ½ in	100 piw	Pebbletop	36TE96	36TE97	36TE98	36TE99	36TF01	36TF02	36TF03	36TF04	36TF05	36TF06	36TF07
	5/16 in	3 in	120 piw	Roughtop	36RW35	36RW36	36RW37	36RW38	36RW39	36RW40	36RW41	36RW42	36RW43	36RW44	36RW45
SBR Rubber	9/32 in	2 in	150 piw	Roughtop	36RV29	36RV30	36RV31	36RV32	36RV33	36RV34	36RV35	36RV36	36RV37	36RV38	36RV39
	5/16 in	2 ½ in	150 piw	V-Top	36RZ87	36RZ88	36RZ89	36RZ90	36RZ91	36RZ92	36RZ93	36RZ94	36RZ95	36RZ96	36RZ97
Oil-Resistant															
Nitrile Rubber	1/8 in	4 in	200 piw	Friction	36RX30	36RX31	36RX32	36RX33	36RX34	36RX35	36RX36	36RX37	36RX38	36RX39	36RX40
	1/8 in	2 in	150 piw	Smooth	36TC09	36TC10	36TC11	36TC12	36TC13	36TC14	36TC15	36TC16	36TC17	36TC18	36TC19
	1/8 in	4 in	150 piw	Smooth	36TJ75	36TJ76	36TJ77	36TJ78	36TJ79	36TJ80	36TJ81	36TJ82	36TJ83	36TJ84	36TJ85
	1/4 in	10 in	220 piw	Smooth	36RT26	36RT27	36RT28	36RT29	36RT30	36RT31	36RT32	36RT33	36RT34	36RT35	36RT36
	5/16 in	12 in	220 piw	Smooth	36RV59	36RV60	36RV61	36RV62	36RV63	36RV64	36RV65	36RV66	36RV67	36RV68	36RV69
	3/8 in	12 in	220 piw	Smooth	36RU83	36RU84	36RU85	36RU86	36RU87	36RU88	36RU89	36RU90	36RU91	36RU92	36RU93
	13/32 in	16 in	330 piw	Smooth	36RT41	36RT42	36RT43	36RT44	36RT45	36RT46	36RT47	36RT48	36RT49	36RT50	36RT51
Polyester	3/16 in	6 in	200 piw	Friction	36TH24	36TH25	36TH26	36TH27	36TH28	36TH29	36TH30	36TH31	36TH32	36TH33	36TH34
	3/16 in	5 in	150 piw	Cover	36TH99	36TJ01	36TJ02	36TJ03	36TJ04	36TJ05	36TJ06	36TJ07	36TJ08	36TJ09	36TJ10
	5/16 in	4 11/16 in	150 piw	Waffle Top	36TH84	36TH85	36TH86	36TH87	36TH88	36TH89	36TH90	36TH91	36TH92	36TH93	36TH94
PVC	9/64 in	4 in	150 piw	Cover	36TF57	36TF58	36TF59	36TF60	36TF61	36TF62	36TF63	36TF64	36TF65	36TF66	36TF67
Low-Stretch															
PVC	9/64 in	3 in	120 piw	Cover	36RW95	36RW96	36RW97	36RW98	36RW99	36RX01	36RX02	36RX03	36RX04	36RX05	36RX06
	11/64 in	4 in	150 piw	Cover	36RV44	36RV45	36RV46	36RV47	36RV48	36RV49	36RV50	—	36RV52	36RV53	36RV54
Extreme-Temperature															
EPDM Rubber	3/8 in	12 in	220 piw	Smooth	36RT77	36RT78	36RT79	36RT80	36RT81	36RT82	36RT83	36RU45	36RT85	36RT86	36RT87
	3/8 in	12 in	220 piw	Smooth	36RU38	36RU39	36RU40	36RU41	36RU42	36RU43	36RU44	36RT84	36RU46	36RU47	36RU48
	1/2 in	18 in	330 piw	Smooth	36RT56	36RT57	36RT58	36RT59	36RT60	36RT61	36RT62	36RT63	36RT64	36RT65	36RT66
SBR Rubber	1/4 in	12 in	220 piw	Chevron	36RY66	36RY67	36RY68	36RY69	36RY70	36RY71	36RY72	36RY73	36RY74	36RY75	36RY76
Fire-Retardant															
PVC	1/4 in	7 in	200 piw	Cover	36RZ42	36RZ43	36RZ44	36RZ45	36RZ46	36RZ47	36RZ48	36RZ49	36RZ50	36RZ51	36RZ52
Heavy-Duty															
PVC	5/64 in	1 in	100 piw	Bare	36TD45	36TD46	36TD47	36TD48	36TD49	36TD50	36TD51	36TD52	36TD53	36TD54	36TD55
SBR Rubber	5/32 in	4 in	150 piw	Smooth	13R727	13R728	13R729	13R730	13R731	13R732	13R733	13R734	13R735	13R736	13R737
	1/4 in	8 in	150 piw	Smooth	36RU68	36RU69	36RU70	36RU71	36RU72	36RU73	36RU74	36RU75	36RU76	36RU77	36RU78
	5/16 in	10 in	220 piw	Smooth	36RR89	36RR90	36RR91	36RR92	36RR93	36RR94	36RR95	36RR96	36RR97	36RR98	36RR99
	13/32 in	16 in	330 piw	Smooth	36RR47	36RR48	36RR61	36RR62	36RR50	36RR51	36RR65	36RR52	13E773	13E774	13E775
	13/32 in	16 in	330 piw	Smooth	36RR59	36RR60	36RR49	13E771	36RR63	36RR64	13E772	36RR66	36RR67	36RR68	36RR69
	9/16 in	20 in	440 piw	Smooth	36RR74	36RR75	36RR76	36RR77	36RR78	36RR79	36RR80	36RR81	36RR82	36RR83	36RR84
Cleated															
Nitrile Rubber	5/16 in	12 in	220 piw	Chevron	36RT05	36RT06	36RT07	—	36RT08	36RT09	—	36RT10	—	—	—
	5/16 in	10 in	220 piw	Chevron	36RT92	36RT93	36RT94	36RT95	36RT96	36RT97	36RT98	36RT99	36RU01	36RU02	36RU03
	5/16 in	12 in	330 piw	Chevron	36RV89	36RV90	36RV91	36RV92	36RV93	36RV94	36RV95	36RV96	36RV97	36RV98	36RV99
	3/8 in	18 in	330 piw	Chevron	36RT11	36RT12	36RT13	36RT14	36RT15	36RT16	36RT17	36RT18	36RT19	36RT20	36RT21

Medium-Duty Slider Bed Belt Conveyors

ASHLAND CONVEYOR PRODUCTS

General-purpose, powered conveyors are suitable for moving light items and items with small or irregularly shaped bottoms. Each has a motor that moves a wide PVC belt over a metal bed. Friction between the belt and surface helps control speed on declining conveyor sections. The belt also keeps items stable, and moves them at a consistent speed and spacing. Commonly used in sorting, packing, inspection, assembly, testing, manufacturing, distribution, and warehouse applications. Units less than 16-ft. long include 2 adjustable-height H-stands; those longer than 16 ft. include 3 stands. Sealed and prelubricated bearings. 4"D steel beds. Powder-coated steel frames.

Note: Field assembly required; units are nonreversing.



Belt Width	Overall Length	Maximum Load Capacity	FIXED SPEED 60 FPM Item No.	VARIABLE SPEED 6-60 FPM Item No.
18 in	6 ft	475 lb	**1PEB2**	**2WJN8**
	11 ft	435 lb	**3MY69**	**2WJN5**
	16 ft	410 lb	**1PEB3**	**2WJN6**
30 in	6 ft	435 lb	**1PEB4**	**2WJP3**
	11 ft	415 lb	**1PEB5**	**2WJN9**
	16 ft	380 lb	**1PEB6**	**2WJP1**
	21 ft	350 lb	**1PEB7**	**2WJP2**

For Use With	Item No.
Replacement Belt for Ashland Slider Bed Conveyors, Black PVC 120	
1PEB2, 2WJN8, 42X867, 42X859	**1PEB8**
3MY69, 2WJN5, 42X864, 42X856	**1PEB9**
1PEB3, 2WJN6, 42X865, 42X857	**1PEC1**
1PEB4, 2WJP3, 42X871, 42X863	**1PEC3**
1PEB5, 2WJN9, 42X868, 42X860	**1PEC4**
1PEB6, 2WJP1, 42X869, 42X861	**1PEC5**
1PEB7, 2WJP2, 42X870, 42X862	**1PEC6**

FLEXCO

Conveyor Belt Lacing and Lacing Tools

These mechanical fasteners allow conveyor belt installation without having to disassemble the entire system, minimizing downtime. Require tools for application.

Clipper Lacing—Wire-hook lacing provides a strong grip across the width of the belt and won't weaken the belt's internal support layer, to help retain belt integrity. Low profile minimizes noise, helps reduce lacing wear, and provides a smooth surface.

Alligator Lacing—Hammer-on lacing provides uniform tension across the width of the belt. Low-profile design minimizes noise, helps prevent lacing wear and tear, and provides a smooth surface. Use on belts of any width. Requires hammer for simple installation.

Staple-Style Alligator Lacing—Conjoined plates provide a strong connection that minimizes flex and fatigue at the joint. Larger surface area improves abrasion resistance. Use in light- and medium-duty applications.

Bolt-Hinge Lacing—Provides a strong joint that can withstand aggressive belt tensioning, and is flexible enough to travel over small pulleys. Conjoined hinged plates are fastened to the ends of a conveyor belt with bolts that can be removed for belt length adjustment.

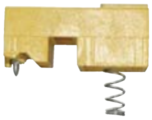
Clipper Lacing

Alligator Lacing, Galvanized

Bolt-Hinge Lacing

Clipper Lacing Tool, #36 Vice Lacer

Clipper Lacing Tool, 14" Microlacer Installation Tool



Staple Lacing Tool, ST5-5 Ready Set Lacer

Lacing Number	Lacing Length	Belt Thickness	Item No.	Pkg. Qty.
Clipper Lacing				
Steel				
#1	6 in	⅛ in–5⁄32 in	**2TJU8**	24
#2	12 in	5⁄32 in–3⁄16 in	**2TJV1**	12
Stainless Steel				
#1	12 in	3⁄32 in–⅛ in	**2TKH1**	12
#2	12 in	5⁄32 in–3⁄16 in	**13E789**	12
Alligator Lacing				
Steel				
#7	12 in	3⁄32 in–9⁄64 in	**2TJU9**	4
#7	24 in	3⁄32 in–9⁄64 in	**13E791**	4
#15	12 in	⅛ in–5⁄32 in	**2TKH5**	4
#15	24 in	⅛ in–5⁄32 in	**2TKH6**	4
#15	36 in	⅛ in–5⁄32 in	**2TKH7**	4
#20	12 in	5⁄32 in–3⁄16 in	**2TJV2**	4
#20	30 in	5⁄32 in–3⁄16 in	**13E793**	4
Stainless Steel				
#7	24 in	3⁄32 in–9⁄64 in	**13E792**	4
#15	12 in	⅛ in–5⁄32 in	**2TKH8**	4
#15	24 in	⅛ in–5⁄32 in	**2TKH9**	4
#15	36 in	⅛ in–5⁄32 in	**2TKJ1**	4

Lacing Number	Lacing Length	Belt Thickness	Item No.	Pkg. Qty.
Staple-Style Alligator Lacing				
Steel				
RS62	12 in	1⁄16 in–⅛ in	**2TKN2**	4
RS125	12 in	⅛ in–3⁄16 in	**2TJU6**	4
RS125	24 in	⅛ in–3⁄16 in	**2TKJ2**	4
RS125	36 in	⅛ in–3⁄16 in	**2TKN5**	4
RS187	12 in	3⁄16 in–¼ in	**2TKJ6**	4
RS187	24 in	3⁄16 in–¼ in	**2TKJ7**	4
RS187	36 in	3⁄16 in–¼ in	**2TKN4**	4
Stainless Steel				
RS125	12 in	⅛ in–3⁄16 in	**2TKJ3**	4
RS125	24 in	⅛ in–3⁄16 in	**2TKJ4**	4
RS125	36 in	⅛ in–3⁄16 in	**2TKJ5**	4
RS187	12 in	3⁄16 in–¼ in	**2TKJ8**	4
RS187	24 in	3⁄16 in–¼ in	**2TKJ9**	4
RS187	36 in	3⁄16 in–¼ in	**2TKK1**	4
Bolt-Hinge Lacing				
Steel				
550	18 in	¼ in–⅝ in	**2TKK3**	1
550	24 in	¼ in–⅝ in	**2TKK4**	1
550	36 in	¼ in–⅝ in	**2TKK5**	1
Stainless Steel				
550	48 in	¼ in–⅝ in	**13E797**	1

Lacing Tool Type	For Lacing Number	Mfr. Model	Item No.
Clipper Lacing Tools			
Lacers	#36	28000350	**2TJV3**
	#1	28000355	**2TJV4**
	#2	28000360	**2TJV5**
	—	28001425	**2TKH4**
	#1	28000380	**4AVE6**
	#2	28000385	**4AVE7**
	12	28000362	**13E790**
Staple-Style Alligator Lacing Tools			
Lacers	#62; 125; 187	28000367	**13E795**
	RS125, RS187, RS62	28001510	**2TKK2**
	#62; 125; 187	28000365	**2TJV6**
Bolt-Hinge Lacing Tools			
Templates	550	28001545	**2TKK9**
	550	28001550	**2TKL1**
	550	28001555	**2TKL2**
Bolt Breaker	550	28001560	**2TKL3**
Wrench	550	28001570	**2TKL5**
Power Wrench	550	28001575	**2TKL6**
Power Boring Bit	550	28001580	**2TKL7**
Wrench Bit	550	28001585	**2TKL8**
	550	28001590	**2TKL9**
Quick Change Chuck	550	28001595	**2TKN1**

Conveyor Belt Tensioners

BRYANT Products, Inc.

Tensioners simplify bearing changes and help ensure proper tracking, with a modular design that adapts to application needs. An adjusting rod is enclosed in a protective telescoping tube that helps prevent freeze-up. As the rod is turned, the tube extends or retracts to adjust belt tension.

Quick-Release 33UL14 has a toggle clamp that allows faster tension and release than manual tensioners. Excellent in applications where conveyor belts are frequently replaced or removed, such as food processing.

Tensioner Retracted Length	Maximum Adjustment Stroke	Bearing Mount Slot Height	Bearing Mount Slot Width	Maximum Tension Force	Item No.
Carbon Steel Manual Screw Adjustment					
6 ⅞ in	3 in	11⁄16 in	7⁄16 in	700 lb	**33UK86**
10 ⅜ in	6 in	11⁄16 in	7⁄16 in	700 lb	**33UK87**
14 ⅜ in	9 in	11⁄16 in	7⁄16 in	700 lb	**33UK88**
11 ½ in	6 in	15⁄16 in	9⁄16 in	1,500 lb	**33UK90**
14 ½ in	9 in	15⁄16 in	9⁄16 in	1,500 lb	**33UK91**
11 ⅛ in	6 in	1 9⁄16 in	11⁄16 in	3,000 lb	**33UK93**
19 ⅛ in	12 in	1 9⁄16 in	11⁄16 in	3,000 lb	**33UK95**
Stainless Steel Manual Screw Adjustment					
6 ⅞ in	3 in	11⁄16 in	7⁄16 in	700 lb	**33UL05**
10 ⅜ in	6 in	11⁄16 in	7⁄16 in	700 lb	**33UL06**
Stainless Steel Quick Release Screw Adjustment					
11 ½ in	6 in	15⁄16 in	9⁄16 in	1,500 lb	**33UL14**

33UK86

Roller Conveyor

ASHLAND CONVEYOR PRODUCTS

Heavy-Duty Chain-Drive Powered Roller Conveyors

For moving heavy items such as pallets, drums, and bulk containers in manufacturing, distribution, and other dirty or oily applications. Each section has a bed of sprocketed rollers that engage with the drive chain to help prevent slipping. Steel frames.

Note: Roller spacing affects the size of the items that can be conveyed on it. The smallest item on the conveyor should be supported by at least three rollers at all times.

Unpowered Extensions—Connect with powered drive sections to create a complete conveyor system.

Overall Width	Between Frame Width	Overall Length	Roller Spacing	Maximum Load Capacity	Roller Dia.	DRIVE SECTION Item No.	UNPOWERED EXTENSION Item No.
34 in	27 in	5 ft	5 in	800 lb/ft	2 ½ in	**45VY55**	**45VY56**
	27 in	10 ft	5 in	800 lb/ft	2 ½ in	**45VY53**	**45VY54**
58 in	51 in	5 ft	5 in	800 lb/ft	2 ½ in	**45VY51**	**45VY52**
	51 in	10 ft	5 in	800 lb/ft	2 ½ in	**45VY49**	**45VY50**

5VEJ4

BESTFLEX

Light-Duty Extendable Flexible-Frame Belt-Drive Powered Roller Conveyors

Conveyors help minimize the effort required to move loads with rimmed or uneven bottoms. Excellent for loading and unloading trailers, creating temporary assembly lines, and adding length to an existing conveyor. The accordion-style aluminum frames can stretch, curve, and contract to change length and shape, or collapse for compact storage. Rollers are self-tracking to ensure that items follow conveyor curves. Locking swivel casters allow units to be rolled into position.

Note: Roller spacing affects the size of the items that can be conveyed on it. The smallest item on the conveyor should be supported by at least 3 rollers at all times.

Overall Length	Roller Spacing	Maximum Load Capacity	Roller Dia.	Overall Width 24 in Item No.	Overall Width 30 in Item No.
12 ft	Up to 5 in	100 lb/ft	1 ½ in	**5YDF3**	**5VEJ1**
24 ft	Up to 5 in	100 lb/ft	1 ½ in	**5YDF4**	**5VEJ2**
36 ft	Up to 5 in	100 lb/ft	1 ½ in	**5YDF5**	**5VEJ3**
48 ft	Up to 5 in	100 lb/ft	1 ½ in	**5YDF6**	**5VEJ4**

H-Stands sold separately on page 1113.

Rectangular Grate
34TA01

Round Grate
34TA09

Tube Magnet
34TA17

Magnetic Separators

High-strength magnets remove metal shavings and contamination from conveyors. They help prevent ferrous particles and parts from contaminating the product, causing damage in machinery downstream, and potentially creating a spark that could ignite explosive materials.

Ceramic magnets capture large ferrous contaminants such as nuts, bolts, or staples.

Rare earth magnets capture fine or weakly magnetic material such as rust or scale.

Grate Magnets—Made up of magnetic tubes arranged in a grid and welded into a frame. They drop into openings on steep-sloped hoppers, odd and irregularly shaped hoppers, floor openings, vertical closed chutes, and ducts. As bulk material falls through the grate during conveying, any ferrous particles and parts stick to the face of the magnetic tubes, removing them from the conveyed material.

Tube Magnets—Can be passed over bulk materials to attract and remove ferrous particles. Multiple tubes can be screwed onto stainless steel tie bars to create custom-configured grates. 1"-dia.

Overall Length	Overall Width	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Rectangular Grate Magnets					
6 in	6 in	**34TA01**	20 oz	**34TA28**	80 oz
	10 in	**34TA03**	20 oz	**34TA30**	80 oz
8 in	8 in	**34TA02**	20 oz	**34TA29**	80 oz
10 in	10 in	**34TA04**	20 oz	—	—
12 in	12 in	**34TA06**	20 oz	—	—
	16 in	**34TA07**	20 oz	**34TA34**	80 oz
14 in	14 in	**34TA08**	20 oz	—	—

Dia. (in.)	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Round Grate Magnets				
6	**34TA09**	20 oz	**34TA36**	80 oz
8	**34TA10**	20 oz	**34TA37**	80 oz
10	—	—	**34TA38**	80 oz
14	—	—	**34TA40**	80 oz
16	**34TA14**	20 oz	**34TA41**	80 oz
18	—	—	**34TA42**	80 oz
20	**34TA16**	20 oz	**34TA43**	80 oz

Overall Length	Tube Magnet Diameter	CERAMIC Item No.	CERAMIC Max. Magnetic Pull Strength	RARE EARTH Item No.	RARE EARTH Max. Magnetic Pull Strength
Tube Magnets					
4 in	1 in	**34TA17**	20 oz	**34TA44**	80 oz
6 in	1 in	**34TA18**	20 oz	**34TA45**	80 oz
12 in	1 in	**34TA21**	20 oz	**34TA48**	80 oz
14 in	1 in	**34TA22**	20 oz	—	—
24 in	1 in	**34TA27**	20 oz	—	—

TANIS INCORPORATED

Conveyor Cylinder Brushes

These long, tubular brushes each consist of a strip brush wrapped around a cylindrical metal core. Light-duty brushes have open-wound nylon bristles for lightly cleaning and positioning conveyed items. They are effective in wet or intermittently hot environments. Medium-duty brushes have closely wound polypropylene bristles and are typically mounted under conveyors to clean belts, chains, and other components. They can also clean, debur, sort, or position items. They resist water, chemicals, and oil, and maintain their stiffness when wet.

Brush Face Length	Overall Length	Bristle Diameter	Bristle Material	Bristle Color	Item No.
Light-Duty					
3 ½ in-dia. Brush for ½ in Shaft					
30 in	30 in	0.012 in	Nylon	Natural	**1VKF1**
30 in	30 in	0.018 in	Nylon	Natural	**1VKF3**
30 in	30 in	0.03 in	Nylon	Black	**1VKF5**
4 in-dia. Brush for ½ in Shaft					
30 in	30 in	0.012 in	Nylon	Natural	**1VKF7**
30 in	30 in	0.018 in	Nylon	Natural	**1VKF9**
30 in	30 in	0.03 in	Nylon	Natural	**1VKG2**
Medium-Duty					
4 in-dia. Brush for 1 in Shaft					
12 in	14 in	0.006 in	Polypropylene	Black	**18A162**
18 in	20 in	0.006 in	Polypropylene	Black	**1VKH7**
20 in	22 in	0.006 in	Polypropylene	Black	**1VKH9**
24 in	26 in	0.006 in	Polypropylene	Black	**1VKJ2**
32 in	34 in	0.006 in	Polypropylene	Black	**1VKJ4**
36 in	38 in	0.006 in	Polypropylene	Black	**1VKJ6**

Brush Face Length	Overall Length	Bristle Diameter	Bristle Material	Bristle Color	Item No.
6 in-dia. Brush for 1 in Shaft					
18 in	20 in	0.02 in	Polypropylene	Black	**1VKK1**
20 in	22 in	0.02 in	Polypropylene	Black	**1VKK3**
24 in	26 in	0.02 in	Polypropylene	Black	**1VKK5**
36 in	38 in	0.02 in	Polypropylene	Black	**1VKK9**
48 in	50 in	0.02 in	Polypropylene	Black	**1VKL2**
10 in-dia. Brush for 1 in Shaft					
22 in	24 in	0.035 in	Polypropylene	Black	**1TCV9**
20 in	22 in	0.035 in	Polypropylene	Black	**1VKN9**
36 in	38 in	0.035 in	Polypropylene	Black	**1VKP9**

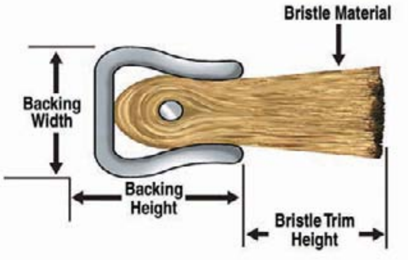
Conveyor Strip Brushes

TANIS INCORPORATED

These conveyor strip brushes are typically mounted along conveyors to direct and separate items on the conveyor and clean debris from conveyed items and conveyor belts and parts. Also known as metal-backed strip brushes, they have a rigid metal backing with densely compressed bristles that are securely held in a U-shaped metal channel with a retaining wire. Models with stainless steel backing offer additional corrosion resistance. All brushes are installed into a compatible Strip Brush Holder (sold separately on this page) to help maximize contact between the brush and conveyor when the brush is mounted. Strip brushes are typically mounted along conveyors in material handling, packaging, food processing, and can be used for nonconveyor applications such as a creating a barrier at the bottom of a door to keep out air, dust, debris, and other contaminants.

Nylon—Provide good resistance to wear and abrasion and are effective when used in wet or intermittently hot environments. Max. operating temperature: 250°F.

Horsehair—Durable, natural horsehair bristles will not abrade surfaces. Max. operating temperature: 400°F.



Bristle Trim Height	Bristle Diameter	Bristle Type	Bristle Material	Bristle Color	36 in Length Item No.	72 in Length Item No.
Stainless Steel Backing						
Backing Size: ⅛ inH x ⅛ inW (#2-1/2)						
⅝ in	0.006 in	Crimped Wire	Nylon	Black	**1TCN8**	**1TCN9**
Backing Size: 3/16 inH x 3/16 inW (#4)						
¾ in	0.01 in	Crimped Wire	Nylon	Black	**1VKF6**	**1VKF8**
Backing Size: 5/16 inH x 5/16 inW (#7)						
1 11/16 in	0.014 in	Crimped Wire	Nylon	Black	**1VKW2**	**1VKW4**
2 11/16 in	0.03 in	Crimped Wire	Nylon	Black	**1TCK8**	**1TCK9**
Steel Backing						
Backing Size: ⅛ inH x ⅛ inW (#2-1/2)						
¾ in	0.006 in	Crimped Wire	Nylon	Black	**1TCL9**	**1TCN1**
1 in	0.008 in	Crimped Wire	Nylon	Black	**1TCN2**	**1TCN3**
3 in	0.012 in	Crimped Wire	Nylon	Black	**1TCN6**	**1TCN7**
Backing Size: 3/16 inH x 3/16 inW (#4)						
¾ in	—	Straight Wire	Horsehair	Brown	**1VKN8**	**1VKP1**
	0.01 in	Crimped Wire	Nylon	Black	**1VKD9**	**1VKE1**
1 ¾ in	—	Straight Wire	Horsehair	Brown	**1VKP4**	**1VKP7**
	0.01 in	Crimped Wire	Nylon	Black	**1VKE2**	**1VKE3**
	0.014 in	Crimped Wire	Nylon	Black	**1VKE4**	**1VKE5**
2 ¾ in	—	Straight Wire	Horsehair	Brown	**1VKR1**	**1VKR4**
	0.014 in	Crimped Wire	Nylon	Black	**1VKE6**	**1VKE7**
3 ¾ in	0.014 in	Crimped Wire	Nylon	Black	**1VKE8**	**1VKE9**
5 ¾ in	0.014 in	Crimped Wire	Nylon	Black	**1VKF2**	**1VKF4**

Bristle Trim Height	Bristle Diameter	Bristle Type	Bristle Material	Bristle Color	36 in Length Item No.	72 in Length Item No.
Backing Size: 5/16 inH x 3/16 inW (#7)						
9 11/16 in	0.045 in	Crimped Wire	Nylon	Black	—	**1TCK1**
Backing Size: 5/16 inH x 5/16 inW (#7)						
11/16 in	0.01 in	Crimped Wire	Nylon	Black	**1VKR6**	**1VKR8**
1 11/16 in	0.014 in	Crimped Wire	Nylon	Black	**1VKT1**	**1VKT3**
	0.02 in	Crimped Wire	Nylon	Black	—	**1VKT7**
2 11/16 in	0.014 in	Crimped Wire	Nylon	Black	**1VKT9**	**1VKU2**
	0.02 in	Crimped Wire	Nylon	Black	**1VKU4**	**1VKU6**
	0.03 in	Crimped Wire	Nylon	Black	**1TCJ1**	**1TCJ2**
3 11/16 in	0.02 in	Crimped Wire	Nylon	Black	**1VKU8**	**1VKV1**
	0.03 in	Crimped Wire	Nylon	Black	**1TCJ3**	**1TCJ4**
5 11/16 in	0.02 in	Crimped Wire	Nylon	Black	**1VKV3**	**1VKV5**
	0.045 in	Crimped Wire	Nylon	Black	**1TCJ5**	**1TCJ6**
7 11/16 in	0.045 in	Crimped Wire	Nylon	Black	**1TCJ7**	**1TCJ8**
9 11/16 in	0.045 in	Crimped Wire	Nylon	Black	**1TCJ9**	—
Backing Size: 7/16 inH x 7/16 inW (#10)						
2 in	0.014 in	Crimped Wire	Nylon	Black	**1TCP7**	**1TCP8**
3 in	0.02 in	Crimped Wire	Nylon	Black	**1TCP9**	**1TCR1**
4 in	0.02 in	Crimped Wire	Nylon	Black	**1TCR2**	**1TCR3**
6 in	0.045 in	Crimped Wire	Nylon	Black	**1TCR4**	**1TCR5**
8 in	0.045 in	Crimped Wire	Nylon	Black	**1TCR6**	—
10 in	0.045 in	Crimped Wire	Nylon	Black	**1TCR8**	**1TCR9**

Strip Brush Holders

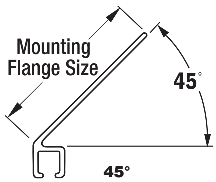
TANIS INCORPORATED

These holders allow compatible strip brushes to be mounted in a variety of orientations in a conveying system. They help maximize contact between the brushes and conveyor as the brushes direct and separate items on the conveyor, support delicate items, and clean debris from conveyed items and conveyor belts and parts. All holders can accept one brush strip, while double track models can accept two. The holder should be compatible with the backing height and width of the strip brush.

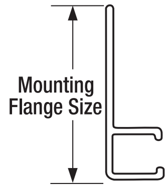
Aluminum—The brush's rigid backing slides into the channel in the holder, and the holder is then surface mounted using drilling or welding. Holder is corrosion-resistant anodized aluminum with a clear finish.

Stainless Steel—The brush's rigid backing slides into the channel in the holder, and the holder is then surface mounted using drilling or welding. Holder is suitable for use in high temperatures and corrosive environments.

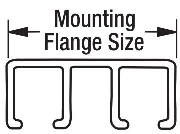
For Backing Height	For Backing Width	Mounting Flange Size	Backing Material - Brush	36 in LENGTH Item No.	72 in LENGTH Item No.
45° Angle Mounting Profile					
5/16 in	5/16 in	1 ⅛ in	Aluminum	**1VKV2**	**1VKV4**
90° Angle Mounting Profile					
⅛ in	⅛ in	¾ in	Aluminum	**1TCU3**	**1TCU4**
3/16 in	3/16 in	1 in	Aluminum	**1VKR5**	**1VKR7**
5/16 in	5/16 in	1 ½ in	Aluminum	**1VKW1**	**1VKW3**
7/16 in	7/16 in	1 ½ in	Aluminum	**1TCV2**	**1TCV3**
Double Track Mounting Profile					
5/16 in	5/16 in	1 3/16 in	Aluminum	**1VKW9**	**1VKX2**
H-Shaped Mounting Profile					
⅛ in	⅛ in	⅞ in	Aluminum	**1TCU5**	**1TCU6**
3/16 in	3/16 in	1 ¼ in	Aluminum	**1VKT8**	**1VKU1**
	3/16 in	1 in	Stainless Steel	**1VKX8**	**1VKY1**
5/16 in	5/16 in	1 ¼ in	Aluminum	**1VKX4**	**1VKX6**
	5/16 in	1 in	Stainless Steel	**1VKY3**	**1VKY5**
7/16 in	7/16 in	2 in	Aluminum	**1TCV4**	**1TCV5**



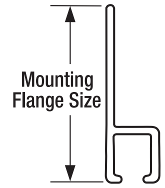
45° Angle



90° Angle



Double Track



H-Shaped

Scan. Order. Done.
Details on page A1.

Smooth

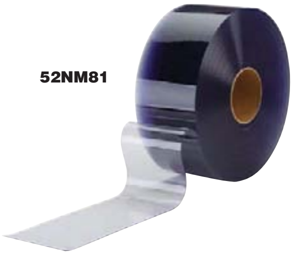
Ribbed

TMI LLC

Industrial PVC Strip Doors

Strip doors reduce air loss at doorways, creating a more comfortable work environment while saving energy costs. Standard smooth strips are the most economical while ribbed PVC materials will reduce scratches and last longer. Cooler/Freezer strips will resist cracking in subfreezing temperatures. These kits include Save-T-Loc® universal mounting hardware and safety orange end strips.

					STANDARD		COOLER/FREEZER	
Strip Width	Opening Width	Opening Height	No. of Strips	% Overlap	Smooth Item No.	Ribbed Item No.	Smooth Item No.	Ribbed Item No.
6 in	3 ft	7 ft	9	67	39J443	52NL65	39J455	52NL85
	4 ft	7 ft	12	67	39J444	52NL66	39J456	52NL86
	5 ft	7 ft	15	67	39J445	52NL67	39J457	52NL87
	6 ft	7 ft	18	67	39J446	52NL68	39J458	52NL88
8 in	3 ft	7 ft	6	50	36LT05	36LT21	52NL73	52NL89
	3 ft	8 ft	6	50	36LT08	36LT25	52NL76	52NL93
	4 ft	7 ft	8	50	3TB17	36LT22	39J459	52NL90
	4 ft	8 ft	8	50	3TA91	3TB27	39J460	39J463
	5 ft	7 ft	10	50	36LT06	36LT23	52NL74	52NL91
	5 ft	8 ft	10	50	3TB20	3TB28	39J461	39J464
	6 ft	7 ft	12	50	36LT07	36LT24	52NL75	52NL92
	6 ft	8 ft	12	50	3TB21	3TB29	39J462	39J465
	7 ft	8 ft	14	50	36LT09	52NL69	52NL77	52NL94
	8 ft	8 ft	16	50	36LT10	36LT26	52NL78	52NL95
12 in	7 ft	10 ft	10	67	3TB37	3TB30	39J466	39J472
	8 ft	8 ft	12	67	3TB18	3TB31	39J467	39J473
	8 ft	10 ft	12	67	3TB19	3TB32	39J468	39J474
	8 ft	12 ft	12	67	36LT19	52NL72	52NL84	52NM02
	9 ft	10 ft	13	67	36LT18	52NL70	52NL81	52NL98
	10 ft	8 ft	15	67	52NL61	36LT34	52NL79	52NL96
	10 ft	10 ft	15	67	3TB22	3TB24	39J469	39J475
	10 ft	12 ft	15	67	3TB23	3TB25	39J470	39J476
	11 ft	10 ft	16	67	52NL63	52NL71	52NL82	52NL99
	12 ft	8 ft	18	67	52NL62	36LT35	52NL80	52NL97
	12 ft	10 ft	18	67	52NL64	36LT38	52NL83	52NM01
	12 ft	12 ft	18	67	3TA90	3TB26	39J471	39J477
16 in	12 ft	14 ft	12	50	39J447	39J451	39J478	39J482
	14 ft	14 ft	14	50	39J448	39J452	39J479	39J483
	14 ft	16 ft	14	50	39J449	39J453	39J480	39J484
	16 ft	16 ft	16	50	39J450	39J454	39J481	39J485



52NM81

TMI LLC

Flexible PVC Bulk Rolls

Material comes in several compounds to meet a wide variety of applications for doorways, curtains, and other partitioning requirements.

			STANDARD		COOLER/FREEZER	
Strip Width	Strip Thickness	Roll Length	Smooth Item No.	Ribbed Item No.	Smooth Item No.	Ribbed Item No.
6 in	0.06 in	75 ft	52NM81	52NM83	52NM86	52NM95
	0.06 in	150 ft	6GJH4	52NM84	52NM87	52NM96
	0.06 in	300 ft	6GJH5	—	52NM88	—
8 in	0.08 in	75 ft	6GJH6	6GJJ6	6GJJ1	6GJJ8
	0.08 in	150 ft	36LT41	3TA95	52NM89	3TB40
	0.08 in	300 ft	3TA92	—	52NM90	—
12 in	0.12 in	75 ft	6GJH7	6GJJ7	6GJJ2	6GJJ9
	0.12 in	150 ft	3TA93	3TA94	52NM91	3TB41
	0.12 in	200 ft	36LT42	—	52NM92	—
16 in	0.16 in	100 ft	6GJH8	36LT43	52NM93	52NM97
	0.16 in	150 ft	52NM82	52NM85	52NM94	52NM98

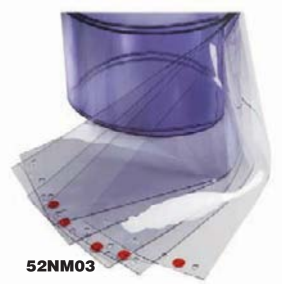
5LY40

TMI LLC

Rip-A-Strip® Rolls Replacement Strips

Prepunched PVC strips come on a continuous roll, scored at the length specified, allowing strips to be separated without tools.

					STANDARD		COOLER/FREEZER	
Strip Width	Strip Length	Strip Thickness	No. of Strips	Roll Length	Smooth Item No.	Ribbed Item No.	Smooth Item No.	Ribbed Item No.
6 in	7 ft 3 in	0.06 in	10	75 ft	52NM25	52NM37	52NM49	52NM65
	7 ft 3 in	0.06 in	20	150 ft	52NM26	52NM38	52NM50	52NM66
8 in	7 ft 3 in	0.08 in	10	75 ft	5LY39	5LY40	52NM51	52NM67
	7 ft 3 in	0.08 in	20	150 ft	52NM27	52NM39	52NM52	52NM68
	8 ft 3 in	0.08 in	9	75 ft	5LY41	5LY42	52NM53	52NM69
	8 ft 3 in	0.08 in	18	150 ft	52NM28	52NM40	52NM54	52NM70
12 in	8 ft 3 in	0.12 in	9	75 ft	52NM29	52NM41	52NM55	52NM71
	8 ft 3 in	0.12 in	18	150 ft	52NM30	52NM42	52NM56	52NM72
	10 ft 3 in	0.12 in	7	75 ft	5LY43	5LY45	52NM57	52NM73
	10 ft 3 in	0.12 in	14	150 ft	52NM31	52NM43	52NM58	52NM74
	12 ft 3 in	0.12 in	6	75 ft	5LY44	5LY46	52NM59	52NM75
	12 ft 3 in	0.12 in	12	150 ft	52NM32	52NM44	52NM60	52NM76
16 in	14 ft 3 in	0.16 in	7	100 ft	52NM33	52NM45	52NM61	52NM77
	14 ft 3 in	0.16 in	10	150 ft	52NM34	52NM46	52NM62	52NM78
	16 ft 3 in	0.16 in	6	100 ft	52NM35	52NM47	52NM63	52NM79
	16 ft 3 in	0.16 in	9	150 ft	52NM36	52NM48	52NM64	52NM80



52NM03

TMI LLC

Industrial PVC Replacement Strips

These replacement PVC strips for strip doors are precut to length and prepunched with holes on 2" centers. They fit all TMI strip door hardware types.

				STANDARD		COOLER/FREEZER	
Strip Width	Strip Length	Strip Thickness	No. of Strips	Smooth Item No.	Ribbed Item No.	Smooth Item No.	Ribbed Item No.
6 in	7 ft 3 in	0.06 in	5	52NM03	52NM06	52NM09	52NM17
8 in	7 ft 3 in	0.08 in	5	3TA96	3TB11	52NM10	52NM18
	8 ft 3 in	0.08 in	5	3TA99	3TB12	52NM11	52NM19
12 in	8 ft 3 in	0.12 in	5	3TA97	3TB13	52NM12	52NM20
	10 ft 3 in	0.12 in	5	3TA98	3TB14	52NM13	52NM21
	12 ft 3 in	0.12 in	5	3TB10	3TB15	52NM14	52NM22
16 in	14 ft 3 in	0.16 in	5	52NM04	52NM07	52NM15	52NM23
	16 ft 3 in	0.16 in	5	52NM05	52NM08	52NM16	52NM24

1VKC3

3TB34

TMI LLC

Industrial Strip Door Hardware

- Compatible with TMI materials.

Save-T-Loc®—Save-T-Loc® studded pins on 2" centers secured with keyhole retainer bars and locking tabs.

Standard—Threaded studs on 2" centers, secured by retainer bars with locking nuts.

	GALVANIZED STEEL		ALUMINUM	
L	Save-T-Loc® Item No.	Standard Item No.	Save-T-Loc® Item No.	Standard Item No.
2 ft	52NM99	52NN02	36LT72	52NN04
3 ft	1VKC3	3TB42	1VKC6	3TB34
4 ft	1VKC2	3TB43	1VKC5	3TB35
5 ft	1VKC1	3TB44	1VKC4	3TB36
6 ft	52NN01	52NN03	36LT73	52NN05
10 ft	—	—	36LT76	—

TMI LLC

Antistatic Industrial PVC Strip Doors

Designed to reduce the buildup of static electricity from contact with the material, dissipate static electric discharge, and prevent dust and airborne particles from adhering. Aluminum mounting hardware.

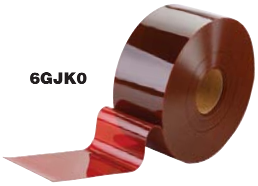
36LT49

Strip Width	Opening Width	Opening Height	No. of Strips	% Overlap	Item No.
8 in	3 ft	7 ft	6	50	36LT49
	4 ft	7 ft	8	50	36LT50
	5 ft	7 ft	10	50	36LT51
	6 ft	7 ft	12	50	36LT52
	3 ft	8 ft	6	50	36LT53
	4 ft	8 ft	8	50	36LT54
	5 ft	8 ft	10	50	36LT55
	6 ft	8 ft	12	50	36LT56
	8 ft	8 ft	16	50	36LT57
12 in	8 ft	8 ft	12	67	36LT58
	8 ft	10 ft	12	67	36LT59
	10 ft	10 ft	15	67	36LT60
	10 ft	12 ft	15	67	36LT61
	12 ft	12 ft	18	67	36LT62

Strip Width	Strip Length	No. of Strips	Item No.
Replacement Strips			
8 in	7 ft 3 in	5	36LT66
	8 ft 3 in	5	36LT67
12 in	8 ft 3 in	5	36LT68
	10 ft 3 in	5	36LT69
	12 ft 3 in	5	36LT70

TMI LLC

Specialty Flexible PVC Bulk Rolls


6GJK0

Specialty materials help reduce static discharge, block welding flash, or remain flexible at low temperatures.

Strip Width	Strip Thickness	Roll Length	Strip Color	Item No.
Antistatic				
8 in	0.08 in	150 ft	Clear	36LT63
12 in	0.12 in	75 ft	Clear	36LT64
	0.12 in	150 ft	Clear	36LT65
Cooler/Freezer				
6 in	0.06 in	300 ft	Clear	6GJJ3
8 in	0.08 in	300 ft	Clear	3TB38
12 in	0.12 in	200 ft	Clear	3TB39

Strip Width	Strip Thickness	Roll Length	Strip Color	Item No.
Welding				
8 in	0.08 in	300 ft	Amber Weld Tint	6GJJ4
12 in	0.12 in	200 ft	Amber Weld Tint	6GJJ5
8 in	0.08 in	300 ft	Red Weld Tint	6GJK0
12 in	0.12 in	200 ft	Red Weld Tint	6GJK1
Standard				
48 in	0.08 in	30 ft	Clear	6GJH9
	0.08 in	60 ft	Clear	6GJJ0

TMI LLC

Walk-In Cooler/ Freezer Doors

Designed to act as a secondary barrier for walk-in coolers and freezers, refrigeration doors are made from low-temperature PVC approved for incidental food contact.

Strip Door

Swinging Doors

Strip Width	Opening Width	Opening Height	Gauge	No. of Strips	Mounting Hardware Material	Item No.
Strip Doors						
6 in	3 ft 4 in	7 ft	0.06	10	Polypropylene	1VKB7
8 in	3 ft 4 in	6 ft 8 in	0.08	7	Polypropylene	1VKB8
8 in	3 ft 4 in	7 ft	0.08	7	Polypropylene	1VKB9
8 in	3 ft 4 in	7 ft	0.08	7	Aluminum	3TB33
Replacement Strips						
8 in	—	7 ft.	0.08	4	—	3TB16

Door Thickness	Opening Width	Opening Height	Mounting Hardware Material	Item No.
Flexible Swinging Doors				
5⁄64 in	2 ft 10 in	6 ft 8 in	Stainless Steel	4EY32
5⁄64 in	3 ft	7 ft	Stainless Steel	4EY33
5⁄64 in	4 ft	7 ft	Stainless Steel	4EY34
5⁄64 in	5 ft	7 ft	Stainless Steel	4EY35
5⁄64 in	5 ft	8 ft	Stainless Steel	4EY36

Curtain Wall Partitions

TMI LLC

Curtains are PVC-coated polyester with an optional clear vision panel. The kits include roller track hardware with universal track supports and hook/loop closures to link multiple curtains. NFPA-701 Compliant.

4EE10

W	H	Item No.
Solid Blue with Clear Vision Panel		
6 ft	8 ft	4EE10
	10 ft	4EE11
	12 ft	4EE12
12 ft	8 ft	4EE13
	10 ft	4EE14
	12 ft	4EE15
24 ft	8 ft	4EE16
	10 ft	4EE17
	12 ft	4EE18
Solid Blue		
6 ft	8 ft	4EE19
	10 ft	4EE20
	12 ft	4EE21
12 ft	8 ft	4EE22
	10 ft	4EE23
	12 ft	4EE24
24 ft	8 ft	4EE25
	10 ft	4EE26
	12 ft	4EE27
90° Curved Track		
—	—	4EE28

TMI LLC

Flexible PVC Swinging Doors

4EY41

Opening Width	Opening Height	Item No.
Industrial Flexible PVC Swinging Door		
8 ft	8 ft	4EY37
	10 ft	4EY38
9 ft	9 ft	4EY39
	10 ft	4EY40
Industrial Swinging Door with Impact Panel		
8 ft	8 ft	4EY41
	10 ft	4EY42
9 ft	9 ft	4EY43
	10 ft	4EY44

TMI LLC

Sliding Bug Screens

- Simple under-header installation

Flexible sliding barriers keep out insects, birds, and dust, while letting in sunlight and fresh air; help improve employee comfort and productivity, as well as facility sanitation. The roller-and-track mechanism can be easily slid open or closed by a single individual. Hook-and-loop fasteners and steel bar-reinforced side seams help seal the sides of the screen. All-weather vinyl-coated polyester construction is UV-resistant.

Opening Width	Opening Height	Item No.
8 ft	8 ft	483L35
	9 ft	483L36
	10 ft	483L37
9 ft	10 ft	483L38
10 ft	8 ft	483L39
	10 ft	483L40
	12 ft	483L41
12 ft	10 ft	483L42
	12 ft	483L43
	14 ft	483L44

45AP93
(Plastic Sheeting Not Included)

32V061

ZipWall® Dust Barrier Systems

Tapeless dust barrier systems are easy to set up, work with a variety of ceiling heights, and prevent damage to finished surfaces. Requires only one person for installation.

Description	Includes	Mfr. Model	Item No.
ZipWall® Dust Barrier System Kits (Plastic Sheeting Not Included)			
10 ft	(4) 10 ft Spring-Loaded Poles With Parts, (2) Standard Zippers and (1) Carry Bag	ZP4	**32V058**
12 ft	(4) Spring-Loaded Poles With Parts, (2) Standard Zippers and (1) Carry Bag	SLP4	**45AP93**
ZipWall® Dust Barrier Tool Kit (Includes Sheeting)			
12 ft. x 16 ft.	(5) ZipWall 12 ft Spring Loaded Poles, (6) Foam Rail Span Adjustable Tapeless Seals, Foam Rail Tapeless Seal 2-Pack, (4) Wall Mounts, (5) Heads and Non Skid Plates, (5) Grip Disk Non Slip Pads, (2) Floor Adaptors, ZipWall Heavy Duty Zipper 2-Pack, Zip Door Standard Door Kit, (2) Edge Heads and Non Skid Plates, Zip Fast Reusable Barrier Panel Multi Pack, and Carry Bags	ZWTK	**54DC47**
ZipWall® Barrier Zippers and Doors			
Magnetic Barrier Door Kit, 7 ft. 2"	Door Panel, 4-3 ft 8 in and 2-2 ft 1 in Magnetic Strips, Header Bar with Clips for 10 ft and 12 ft, 20 ft ZipWall Spring Loaded Poles, Carry Bag	MDK	**54DC46**
Heavy-Duty Zipper, Pack of 2	(2) 7 ft Self-Adhesive Zippers, (2) Flap Hooks, (1) ZipperKnife(TM) Sheeting Cutter	HDAZ2	**9UTK2**
Heavy-Duty Zipper, Pack of 12	(12) Self-Adhesive Heavy Duty Zippers, (12) Flap Hooks and (1) Plastic Sheeting Cutter	HDAZ12	**32V059**
Standard Zipper, Pack of 2	(2) 7 Ft. Self-Adhesive Zippers and (2) Flap Hooks	AZ2	**9VD84**
ZipDoor® for Standard Doorways, 7 ½ ft H x 4 ft L	(2) Flap Hooks, Roll of Tape, Zippered Door	ZDS	**32V060**
ZipDoor® for Commercial Doorways 8 ½ ft H x 5 ft L, Flame Retardant	Door, Built-In Zippers, Two-Sided Tape	ZDC	**32V061**
ZipFast® Reusable Nylon Barrier Panels			
12 ft. H x 5 ft. L	—	ZF5	**45AP94**
12 ft. H x 5 ft. L	(3) 5 ft Wide Zippered Panel, 2 ½ ft Wide Zippered Panel, Carry Bag	ZFMP	**45AP92**
12 ft H x 10 ft L	—	ZF10	**45AR02**

Description	For Use With	Color	Mfr. Model	Item No.
ZipWall® Poles				
ZipWall® 10, Includes (2) 10 ft Spring-Loaded Poles With Parts	Dust Barrier System Kits	Black	ZP2	**32V057**
ZipWall® 12, Includes (2) Poles, (2) Sets Of Parts	Dust Barrier System Kits	Silver	SLP2	**4FPK3**
ZipWall® 12, Includes Pack of (6) 12 ft Spring-Loaded Poles with Parts	Dust Barrier System Kits	Silver	SLP6	**9VD17**
ZipWall® 20, Includes (2) 20 ft Spring-Loaded Poles With Parts	Dust Barrier System Kits	Red	KT20	**9X846**
ZipWall® Accessories				
Side Pack Kit, 6 Clamps, 6 3' Foam Rails, Bag	Dust Barrier System Kits	—	SDPK	**9X847**
FoamRail™ Tapeless Seals	—	Black	FR2	**45AP96**
ZipWall® Carry Bag, Polyester	Dust Barrier System Kits	Black with Red Trim	CB1	**9XA26**
ZipWall® 10 Carry Bag, Polyester	Dust Barrier System Kits	Black With Blue Trim	ZPCB1	**32V066**
Dust Barrier ZipHook	Dust Barrier System Kits	Black	ZHK1	**32V065**
Dust Barrier Floor Adaptor	12" Pole	Black	FA12	**32V068**
Replacement Head/Plate Pack	Dust Barrier System Kits	—	TPH1	**9VDP1**
Replacement Non-Skid Plate, Pk. of 2	Dust Barrier System Kits	—	NSP2	**8EYU9**
GripDisk™ Pk. Of 2	Dust Barrier System Kits	Red	GD2	**9XA27**
Dust Barrier Floor Adaptor	10' ZipPole	Blue	FA10	**32V067**
Adustable Tapeless Seal	—	Silver, Black	SPN	**48UH58**

H1816

H1839

H1814

Polyethylene Traffic Doors

- 24" bumpers included
- 30" and 36"W doors are sold individually, all others are sold in pairs

Polyethylene construction for durability. Corrosion-resistant panels have no gaps or joint seams. Double-acting V-Cam hinging system operates smoothly. Permanently lubricated needle-bearing roller assembly.

▶**Please choose:** Beige, Black, Burgundy, Cadet Blue, Chocolate Brown, Cloud Gray, Forest Green, Jade, Medium Brown, Metallic Gray, Navy, Red, Royal Blue, or White.

Door Height	Door Width	Window Height	Window Width	Item No.
High Usage/Washdown				
7 ft	2 ft 6 in	18 in	12 in	**H1816**
	3 ft	16 in	16 in	**H1818**
	5 ft	16 in	16 in	**H1836**
	6 ft	16 in	16 in	**H1839**
8 ft	3 ft	16 in	16 in	**H1822**
	7 ft	16 in	16 in	**H1850**
9 ft	8 ft	16 in	16 in	**H1853**
10 ft	8 ft	16 in	16 in	**H1855**

Door Height	Door Width	Window Height	Window Width	Item No.
Medium-Duty				
7 ft	2 ft 6 in	18 in	12 in	**H1814**
	3 ft	16 in	16 in	**H1815**
	5 ft	16 in	16 in	**H1831**
	6 ft	16 in	16 in	**H1835**
8 ft	6 ft	16 in	16 in	**H1837**
	8 ft	16 in	16 in	**H1843**

Door Height	Door Width	Window Height	Window Width	Item No.
Heavy-Duty				
7 ft	5 ft	22 in	14 in	**G4687**
	6 ft	22 in	20 in	**G4689**
8 ft	6 ft	22 in	20 in	**G4690**
	8 ft	22 in	20 in	**G4691**
9 ft	8 ft	22 in	20 in	**G4692**
10 ft	8 ft	22 in	20 in	**G4693**

G2995

H1829

Flexible Traffic Doors

- Textured vinyl construction with PVC body
- 36"W doors are sold individually, all others are sold in pairs

Designed for heavy-traffic applications, these traditional doors provide maximum opening clearance for wide loads. Replacement for existing doors is fast and easy due to simple construction of a top-mounted gravity hinging system.

▶**Please choose:** Forest Green, Navy, Metallic Gray, Medium Brown, Red, Royal Blue, Chocolate Brown, or Black.

Door Height	Door Width	Window Height	Window Width	Item No.
7 ft	3 ft	14 in	15 in	**G2990**
	5 ft	14 in	15 in	**G2992**
	6 ft	14 in	15 in	**G2994**
8 ft	5 ft	14 in	15 in	**G2993**
	6 ft	14 in	15 in	**G2995**
	7 ft	35 in	76 in	**H1829**
	8 ft	35 in	88 in	**H1832**

12A736

Smooth Aluminum Traffic Doors

Easy-to-open doors weigh less than impact doors, making them ideal for light-duty applications where cost and aesthetic appeal are considerations.

Door Height	Door Width	Window Height	Window Width	Item No.
Single Doors				
7 ft	3 ft	14 in	9 in	**12A736**
8 ft	3 ft	14 in	9 in	**12A737**
Pair of Doors				
8 ft	5 ft	14 in	9 in	**12A739**
8 ft	6 ft	14 in	9 in	**12A741**

5MVG8

5MVG9

5MVH4

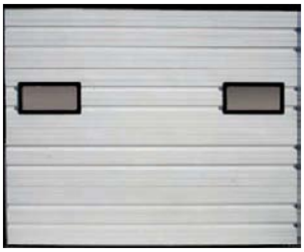
Garage Door Locking Components

American garage door supply inc.

Description	Finish	Brand	Item No.
Inside Slide Lock	Galvanized	American Garage Door Supply	5MVG8
Inside Lock Mechanism	Galvanized	American Garage Door Supply	5MVG9
Lift Handle	Zinc	American Garage Door Supply	5MVH4
Blank T-Handle For Use with Snap Locks	Chrome	—	1RBH8
Deadbolt Lock and Cylinder For Use with Slidable Locking Bar Locks	Aluminum	—	1XND2
Outside Locking T-Handle	Chrome	—	1XNC9

American garage door supply inc.

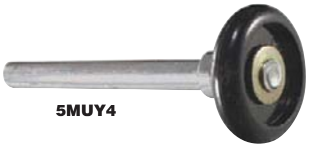
Vertical Lift Garage and Dock Doors


36R638

- U-shaped bottom astragal protects against the elements and provides a positive seal
- Heavy-duty 10-ball commercial rollers
- Hinges are 14-ga., hot-dipped galvanized steel
- Include all hardware needed to install

Noninsulated doors are embossed and ribbed steel. The exterior and interior are prefinished, then finish coated with baked-on polyester primer and acrylic. Insulated doors feature polystyrene insulation bonded between 26-ga. substrate. Provide incredible strength and thermal protection. Flush wood grain embossed panels.

Door Width	Opening Height	Opening Width	Minimum Height Clearance	Includes Windows	NONINSULATED Item No.	INSULATED Item No.
7 ft 8 in	10 ft	7 ft 6 in	21 ft	Yes	36R638	36R686
8 ft	8 ft	7 ft 10 in	17 ft	No	36R664	36R713
8 ft 2 in	8 ft	8 ft	17 ft	No	36R668	36R717
8 ft 2 in	9 ft	8 ft	19 ft	No	36R669	36R718
8 ft 2 in	10 ft	8 ft	21 ft	No	36R670	36R719
9 ft 2 in	10 ft	9 ft	21 ft	Yes	36R654	36R703


5MUY4

5MUY1

5MUX2

American garage door supply inc.

Garage Door Rollers

Roller Width/ Dia. (in.)	Shaft Length	Bearings	Item No.	Pkg. Qty.
Nylon				
2	4 in	—	5MUY4	10
Roller				
1¾	4 in	Steel 10 Ball	5MUY5	10
Steel				
2	4½ in	Steel 10 Ball	5MUY1	4
2	7 in	Steel 10 Ball	5MUY2	4
2	9 in	Steel 10 Ball	5MUY3	4
3	4 in	Steel 10 Ball	5MUX8	4
3	7 in	Steel 10 Ball	5MUX9	4
3	9 in	Steel 10 Ball	5MUY0	4
For Harsh Conditions, Stainless Steel With UHMW Polyethylene Tire				
2	4½ in	Precision Chrome Steel, Sealed	5MUX2	4
3	7½ in	Stainless Steel Sealed	5MUX7	4
2¾	4½ in	—	5MUX0	4

36R944

American garage door supply inc.

Garage and Dock Door Extension Springs

- Double-end loop style
- Sold in pkg. of 2

All extension springs include high-quality, black-coated spring wire and are rated for a minimum of 10,000 cycles on an appropriate door height and weight. Color-coded for easy identification.

Description	Item No.
Garage Door Extension Spring	
7 ft High Garage Doors - 25" to 42" Stretch	
80 lb Pull Per Pair	36R944
90 lb Pull Per Pair	36R945
100 lb Pull Per Pair	36R946
110 lb Pull Per Pair	36R947
120 lb Pull Per Pair	36R948
130 lb Pull Per Pair	36R949
140 lb Pull Per Pair	36R950
150 lb Pull Per Pair	36R951
160 lb Pull Per Pair	36R952
8 ft High Garage Doors - 27" to 48" Stretch	
80 lb Pull Per Pair	36R953
90 lb Pull Per Pair	36R954
100 lb Pull Per Pair	36R955
110 lb Pull Per Pair	36R956
120 lb Pull Per Pair	36R957
130 lb Pull Per Pair	36R958
140 lb Pull Per Pair	36R959
150 lb Pull Per Pair	36R960
160 lb Pull Per Pair	36R961
Accessories	
Clip Extension Spring Cable Adjustment	36R962
Fork Extension Spring, 3"	36R963
Fork Extension Spring, 4"	36R964
Tandum Hookup Kit Extension Springs	36R965

5MVE4

5MVF7

American garage door supply inc.

Garage Door Drums, Pulleys, and Cable Assemblies

Description	Max. Wt. (Lb.)	Item No.
Drums and Pulleys, Pkg. of 2		
3 in" Cable Pulley	200 lb	5MVF4
4 in" Cable Pulley	200 lb	5MVF5
Commercial Drum - Keyed	1,000 lb	5MVF0
High Lift Drum - Keyed	550 lb	5MVF1
	1,000 lb	5MVF2
Light Commercial Drum - Keyed	750 lb	5MVE9
Residential Drum	530 lb	5MVE8
Specialty Coated Commercial Drum - Keyed	1,000 lb	5MVE4
Specialty Coated High Lift Drum - Keyed	550 lb	5MVE5
	1,000 lb	5MVE6
Specialty Coated Light Commercial Drum - Keyed	750 lb	5MVE3
Specialty Coated Residential Drum	530 lb	5MVE2
Specialty Coated Vertical Lift Drum - Keyed	850 lb	5MVE7
Vertical Lift Drum - Keyed	850 lb	5MVF3

Outside Dia.	L (in.)	Pkg. Qty.	STAINLESS Item No.	STAINLESS Includes	GALVANIZED Item No.	GALVANIZED Includes
⅛ in	104 in	2	5MVF6	Thimble	5MVG2	Loop Only
⅛ in	116 in	2	5MVF7	Thimble	5MVG3	Loop Only
⅛ in	140 in	2	5MVF8	Thimble	5MVG4	Thimble
1563/10000 in	140 in	2	5MVF9	Thimble	5MVG5	Thimble
⅛ in	164 in	2	5MVG0	Thimble	5MVG6	Thimble
1563/10000 in	164 in	2	5MVG1	Thimble	—	—
5/32 in	164 in	2	—	—	5MVG7	Thimble

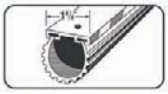
5MUZ1

5MVC7

American garage door supply inc.

Garage Door Hinges and Brackets

Description	Material	Finish	Item No.	Pkg. Qty.
Garage Door Hinges				
#1 Heavy Duty	Zinc	Galvanized Steel	5MVA2	4
#2 Heavy Duty	Zinc	Galvanized Steel	5MVA3	2
#3 Heavy Duty	Zinc	Galvanized Steel	5MVA4	2
#4 Heavy Duty	Zinc	Galvanized Steel	5MVA5	2
#5 Heavy Duty	Zinc	Galvanized Steel	5MVA6	2
	Zinc	Galvanized Steel	5MVA7	2
#6 Heavy Duty	Stainless Steel	Mill Stainless Steel	5MUZ1	2
#9 Heavy Duty	Stainless Steel	Mill Stainless Steel	5MUZ4	2
Brackets				
Top Fixture - Adjustable	Steel	Zinc Plated	5MVC7	2



2RRT5

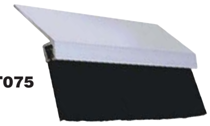
2RRT9

5MFH0

Garage Door Thresholds and Seals

2RRT5

Description	Color	L	W	H	Item No.
Threshold Kits					
10 ft Single	Gray	10 ft	3 ½ in	½ in	5MFH0
20 ft Double	Gray	20 ft	3 ½ in	½ in	5MFH1
Type	**▶CHOOSE: Color**	**Overall Length**	**Overall Width**	**Overall Height**	**Item No.**
Seals for Top and Sides					
Nonadhesive	Brown, White	9 ft	2 ½ in	—	G2344
Bottom Seals					
Base Mount PVC Vinyl, Aluminum Flange	Black	9 ft	1 ⅝ in	—	2RRT5
	Black	18 ft	1 ⅝ in	—	2RRT6
PVC Vinyl Replacement for Base Mount	Black	9 ft	2 ½ in	—	2RRT7
	Black	18 ft	2 ⅝ in	—	2RRT8
Rubber Nail-On, No Flange	Black	9 ft	2 in	1 in	2RRT9
	Black	16 ft	2 in	1 in	2RRU1
	Black	100 ft	2 in	1 in	2RRU2



36T075

36T071

American garage door supply inc.

Garage and Dock Door Brush Weather Seals

- Polypropylene brush

Energy-saving overhead door brush weather seals help prevent elements from entering the building through gaps in or around the loading docks.

Overall Length	Brush Size	Item No.
45° Angle 1¼" Retainer		
8 ft	1" Brush	36T075
	1½" Brush	36T079
	2" Brush	36T083
10 ft	1" Brush	36T076
	1½" Brush	36T080
	2" Brush	36T084
12 ft	1" Brush	36T077
	1½" Brush	36T081
	2" Brush	36T085
14 ft	1" Brush	36T078
	1½" Brush	36T082
	2" Brush	36T086
Straight 3" Retainer		
8 ft	3" Brush	36T071
10 ft	3" Brush	36T072
12 ft	3" Brush	36T073
14 ft	3" Brush	36T074

5MVD5

5MVD6

5MVD7

5MVJ4

American garage door supply inc.

Garage Door Accessories

Description	Finish	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Garage Door Bearings					
Stainless Steel Greasable Bearing with Aluminum Housing	Stainless Steel	1	—	5MVD5	2
Steel Freeway Bearing - 3 in Hole to Hole	Zinc Plated	1	2 in	5MVD6	4
Steel Football Bearing - 3 in Hole to Hole	Zinc Plated	1	—	5MVD7	4

Description	Material	Finish	L (in.)	Item No.	Pkg. Qty.
Garage Door Fasteners					
Self Driller Hinge Screw With Rubber Washer	400 Stainless Steel	—	1 in	5MVA0	24
Self Tapper Hinge Screw With Rubber Washer	304 Stainless Steel	—	1 in	5MVA1	24
¼ in dia Self Driller Hinge Screw	Steel	Galvanized	⅝ in	5MVD3	24
Self Driller Hinge Screw	Steel	Galvanized	—	5MVD1	24
Self Tapper Hinge Screw	Steel	Galvanized	1 in	5MVD2	24
Carriage Bolt	Steel	Galvanized	2 ¼ in	5MVD4	24
Track Bolts	Stainless Steel	Mill Finish Stainless Steel	⅝ in	5MVH9	16

Description	Material	L (in.)	Item No.	Pkg. Qty.
Counterbalance Hardware				
¼ in Square Key Stock	304 Stainless Steel	3 in	5MVD8	8
¼ in Square	Zinc Plated Galvanized Steel	3 in	5MVD9	8
Painted Coupler	Painted Steel	1 in	5MVE0	1
Coated Coupler	Powder Coated Steel	1 in	5MVE1	1

Description	For Use With	Item No.	Pkg. Qty.
Aluminum Exhaust Ports			
Latching 3 in	Up to ¼ in Doors	5MVJ0	1
Latching 3 in	Up to 2 in Doors	5MVJ1	1
Latching 4 in	Up to ¼ in Doors	5MVJ2	1
Latching 4 in	Up to 2 in Doors	5MVJ3	1

Material	Item No.	Pkg. Qty.
Leaf Bumper With Brackets		
Steel	5MVJ4	2

36R789

36R805

36R780

36R796

Truck Door Parts

American garage door supply inc.

All hardware is suitable for direct replacement on original OEM truck doors. For additional parts, see Grainger.com®.

Description	Item No.	Pkg. Qty.
Hinges		
Bottom Fixture Assembly	36R787	1
Center Hinge	36R788	4
Recessed End Mounting Roller Hinge	36R789	2
Flush Mounting Adjustable Top Fixture	36R790	2
Flush Mount Center Hinge	36R803	4
End Hinge, Galvanized Steel, Flush	36R798	2
Top Fixture, Flush Mount	36R804	2
Face Hardware		
Lift handle	36R805	1
Locks		
Lock Keeper	36R780	1
Latch Plate	36R781	1
Maximum Security Lock	36R782	1

36R791

36R815

36R813

36R801

Description	Item No.	Pkg. Qty.
Door Cable Assembly		
3 in Diameter	36R779	1
Cable Anchor Bracket	36R796	2
Heavy Duty Cable Anchor Bracket	36R797	2
95 in Long x ⅛ in OD, 7 x 19 Strand	36R806	1
110 in Long x ⅛ in OD, 7 x 19 Strand	36R807	1
115 in Long x ⅛ in O.D, 7 x 19 Strand	36R808	1
120 in Long x ⅛ in OD, 7 x 19 Strand	36R809	1
125 in Long x ⅛ in OD, 7 x 19 Strand	36R810	1
125 in Long x ⅛ in OD, 7 x 19 Strand	36R811	1
130 in Long x ⅛ in OD, 7 x 19 Strand	36R812	1
Counter Balance		
Left Hand Cable Drum and Bearing Assembly	36R791	1
Right Hand Cable Drum and Bearing Assembly	36R792	1
Repair Tape		
4 in x 15 mil x 100 ft	36R815	1
6 in x 15 mil x 100 ft	36R816	1
Door Pull Strap Assembly		
2 in x 18 in	36R813	1
2 in x 24 in	36R814	1
Rollers for Overhead Truck Doors		
Zinc Galvanized Finish Stem and Steel Tire For Use with 1"D Track	36R786	4
Zinc Galvanized Finish Stem and Nylon Tire For Use with 2"D Track	36R801	4
Zinc Galvanized Finish Stem and Steel Tire For Use with 2"D Track	36R802	4

LiftMaster
American garage door supply inc.

Overhead Door Openers and Control Systems

COMMERCIAL

½ HP, 115V motor for 12 cycles per hour, max. 50 cycles per day.

Hoist-Type Door Openers—Floor-level emergency chain hoist with electric interlock allows manual operation. Adjustable-friction clutch reversal system. Can be right or left mounted. Include wall-mounted, 3-button control station and standard solenoid brake. Prewired to accept sensing devices and optional radio control receiver 3ZRX2 and transmitters 46K657 and 3ZRX1.

Trolley-Type Door Opener—Solid double "L" rail handles heavier doors and allows quick installation. Internal auxiliary reversal system. Wired to accept optional radio control receiver 3ZRX2.

COMMERCIAL ACCESSORIES

Transmitters—Feature rolling code antiburglary technology. 315 MHz. 46K657 controls up to four separate doors and includes two 5-year, 3V lithium batteries. 3ZRX1 controls one door.

Note: 390 MHz frequency transmitters and receivers are available; call 1-800-GRAINGER (472-4643). On Grainger.com®, search for "garage door opener accessories."

INDUSTRIAL

½ HP, 115V continuous-duty motor for 25 cycles per hour, up to 80 to 90 cycles per day. Door closure timer can be set for 5-sec. or 1-min. increments.

Hoist-type door opener 2TRN1 has an emergency chain hoist with electric interlock. 36R922 through 36R924 are manually operated chain hoists. Trolley-type door openers 2TRN3 to 2TRN6 have a low profile.

UNIVERSAL ACCESSORIES

Photo Eyes—Feature a noncontact, infrared door-reversing sensor that provides protection on doors up to 30 ft. wide. Door automatically opens when beam is broken. Include emitter, receiver, mounting brackets, and operator interface. Wall- or floor-mounted. 6XZV7 is water- and dust-tight.

4GY87

6UR99

46K657

2TRN1

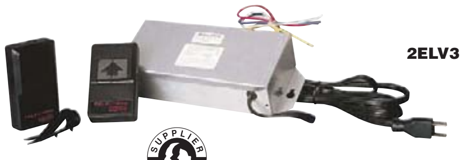
36R922

2TRN3

6XZV6

Description	Max. Door Width (ft.)	Max. Door Height (ft.)	Brand	Item No.
Commercial				
Hoist-Type Door Opener, Right Hand Mount	22	14	LiftMaster	**4GY87**
Hoist-Type Door Opener, Left Hand Mount	22	14	LiftMaster	**4UKX7**
Trolley-Type Door Opener	22	14	LiftMaster	**6UR99**
Commercial Accessories				
4-Button Remote Control Transmitter for 3ZRX2	—	—	LiftMaster	**46K657**
1-Button Transmitter for 3ZRX2	—	—	LiftMaster	**3ZRX1**
Radio Control Receiver	—	—	LiftMaster	**3ZRX2**
Industrial				
Hoist-Type Door Opener, Right Hand Mount	22	24	LiftMaster	**2TRN1**
Hoist-Type Door Opener, Left Hand Mount	22	24	LiftMaster	**4UKX6**
Manual Chain Hoist Wall Mount - 1 in Bore	—	18	American Garage Door Supply	**36R922**
Manual Chain Hoist Shaft Mount - 1 in Bore	—	18	American Garage Door Supply	**36R923** *
Manual Chain Hoist Shaft Mount - 1¼ in Bore	—	18	American Garage Door Supply	**36R924** *
Trolley-Type Door Opener	22	16	LiftMaster	**2TRN3**
	22	18	LiftMaster	**2TRN4**
	22	20	LiftMaster	**2TRN5**
	22	24	LiftMaster	**2TRN6**
Universal Accessories				
Universal Keyless Entry	—	—	LiftMaster	**2TRL8**
1-Button Transmitter for 6UR93	—	—	LiftMaster	**6UR95**
Photo Eyes	—	—	LiftMaster	**6XZV6**
NEMA 4 Photo Eyes	—	—	LiftMaster	**6XZV7**

*** Jack Shaft Mounting**


2ELV3

TELECTRON

SUPPLIER DIVERSITY

Radio-Operated Control System

Radio Control System—For use with all start and stop operations and garage door openers.

Extra Transmitters—Allow control by multiple users. Check receiver code number and set transmitter code to match receiver code.

3-Button Control Station—3 controls allow separate open and close operations as well as stop function. Operates on 24V power.

6X891

Description	Item No.
Radio Control System, 433.9 MHz	**2ELV3**
Extra Transmitter, 225 Mhz	**6X893**
Extra Transmitter, 433.9 Mhz	**2ELV4**
3-Button Control Station	**6X891**

American garage door supply inc.

NEMA 1 Control Stations for Garage and Dock Doors

36R989

36R990

Description	Item No.
(2) Buttons with OPEN-CLOSE, Back Box, Momentary Contacts, Stainless Steel Faceplate	**36R988**
(3) Buttons with OPEN-CLOSE-STOP, Back Box, Momentary Contacts, Stainless Steel Faceplate	**36R989**
(3) Oval Buttons with OPEN-CLOSE-STOP, Back Box, Faceplate, Momentary Contacts	**36R990**
(3) Buttons with OPEN-CLOSE-STOP, Faceplate, Momentary Contacts, Non-Metallic Enclosure	**36T005**
(3) Buttons with OPEN-CLOSE-STOP, Double Pole Contacts, Non-Metallic Enclosure	**36T008**

American garage door supply inc.

Radio Controls for Garage and Dock Doors

- Rated for continuous-duty
- 318 MHz

Compact garage and dock door radio controls provide easy access to doors. Additional controls available on Grainger.com.

Radio Control Sets—36T057 includes Receiver 36T039 and Transmitter 36T056. Set 36T058 combines Receiver 36T039 and Transmitter 36T045. Set 36T059 combines Receiver 36T039 and Transmitter 36T045.

Radio Transmitters—Include 9V battery and visor clip. 36T043, 36T044, and 36T046 have Open, Close, and Stop functions. Other models are single function.

36T046

36T045

36T043

36T055

Type	Voltage	For Use With	Item No.
Radio Control Set			
1 Channel	—	(1) Door	**36T057**
1 Channel	—	(2) Doors	**36T058**
1 Channel	—	(3) Doors	**36T059**
Radio Transmitter			
1 Channel	9V DC	(1) Door	**36T046**
1 Channel	9V DC	(1) Door	**36T064**
3 Channel	9V DC	(3) Doors	**36T045**
3 Channel - Beige	9V DC	(1) Door	**36T043**
3 Channel - Black	9V DC	(1) Door	**36T044**
Radio Control Transmitter			
1 Channel	9V DC	(1) Door	**36T055**
1 Channel	9V DC	(1) Door	**36T056**
2 Channel	9V DC	(2) Doors	**36T065**

437V13

437V17

437V15

437V14

Industrial Tricycles

- Front cantilever V-brakes
- Durable steel frames

Industrial-quality tricycles are the quick-and-easy way to get around large facilities. Rider-friendly—these 3-wheel bikes are capable of handling various size loads. Easy-to-grab hand brakes. Wide cruiser seat adjusts for differing heights. Large wire basket on 437V12, 437V13, 437V16, and 437V17.

Basket—60-lb. capacity. Fits 437V15 and 437V19.

Description	Load Capacity	Wheel Dia.	Spokes	Color	Item No.
Bicycles					
Standard Duty Chain	250 lb	24 in	0.08 ga	Blue	**437V12**
	250 lb	24 in	0.08 ga	Green	**437V13**
	250 lb	24 in	0.08 ga	Purple	**437V16**
	250 lb	24 in	0.08 ga	Red	**437V17**
Medium Duty Chain	350 lb	24 in	0.08 ga	Yellow	**437V15**
Heavy Duty Chain	500 lb	26 in	0.105 ga	Yellow	**437V19**
Basket					
Basket, 21 x 15 x 9 in	—	—	—	—	**437V14**

26W613

3KR77

2W877

2W878

1F144

26W611

Trailer-Stabilizing Jacks and Notice Sign

Dayton | IRONguard Protecting Your People

Jacks prevent up-ending semitrailers not connected to tractors, level trailers parked on slopes, and prevent landing gear from sinking into soft surfaces. High-strength steel. Flush-type zerk fitting for relubricating Acme screw. With reflective night-visible collar.

GAS-ACTIVATED JACKS

Gas-operated system automatically raises the stand and operator locks in place.

HYDRAULIC JACK

Lift heavy loads using force created by a hydraulic cylinder. The force is created by the pressure in the cylinder chamber.

RATCHET JACKS

Have 8"-dia. wheels.

4W287—Triangular base has 18" sides. Two-way reversible ratchet with 2"-dia. thread screw allows a 12" adjustment range. 8"-dia. swivel head.

3KR77—Extra-wide 6"W x 24"L lifting beam aids trailer support. Two handles assist positioning jack under trailer. Two-way reversible ratchet for adjusting height.

2W878—With easily reversible 2-way ratchet, 2½"-dia. thread screw, and 12" adjustment range. 8"-dia. swivel head, 8"-dia. solid rubber wheels.

SPIN TOP JACKS

Manually turned Acme thread screw raises and lowers jack for fast installation and removal.

2W877—With 10"L lift screw. 14"-dia. dome-shaped base for max. leveling stability. Not made for lifting.

1F144—12" adjustment range. 8"-dia. swivel head and 8"-dia. solid rubber wheels.

NOTICE SIGN

Notifies drivers that OSHA requires use of trailer stabilizer jacks during loading and unloading.

Lifting Capacity	Static Load Capacity	Adjustment Range	Wheel Dia.	Brand	Item No.
Gas Activated					
Not Rated	100,000 lb	37 in to 48 in	16 in	Ironguard Safety Products	**458R40**
		39¼ in to 52½ in	10 in	Dayton	**26W613**
Hydraulic					
40,000 lb	100,000 lb	41 in to 47 in	10 in	Dayton	**26W618**
Ratchet					
40,000 lb	80,000 lb	39 in to 51½ in	10 in	Dayton	**26W612**
		39 in to 51 in	8 in	Dayton	**4W287**
		39½ in to 51 in	8 in	Dayton	**3KR77**
	100,000 lb	39 in to 51½ in	10 in	Dayton	**26W614**
		44½ in to 57 in	10 in	Dayton	**26W615**
50,000 lb		39 in to 51 in	8 in	Dayton	**2W878**
Spin Top					
5,000 lb	50,000 lb	41 in to 57½ in	8 in	Dayton	**26W617**
		44 in to 51 in	None	Dayton	**2W877**
		44 in to 51 in	None	Dayton	**26W616**
40,000 lb	100,000 lb	39 in to 51 in	8 in	Dayton	**1F144**
Not Rated		38½ in to 49½ in	10 in	Ironguard Safety Products	**458R41**
Notice Sign					
Aluminum, 9⅞ x 11 13/16 in				Dayton	**26W611**

2 Sections
3CA84

Telescopic Support Braces

Provide extra support for leveling and stabilizing floor beams and joists during construction and repairs. Telescopic style with removable pins lets you properly position the brace for better leveling. End pad includes screw and turning bar for height adjustment. Welded steel construction.

Min. Service Height (in.)	Max. Service Height (in.)	No. of Sections	Cap. @ Min. Height (lb.)	Cap. @ Max. Height (lb.)	Item No.
12 in	16 in	1	9,738	9,738	**3CA86**
19 in	36 in	2	9,738	6,863	**3CA84**
54 in	100 in	2	8,438	5,600	**3CA85**
54 in	150 in	3	11,200	2,588	**3CA83**

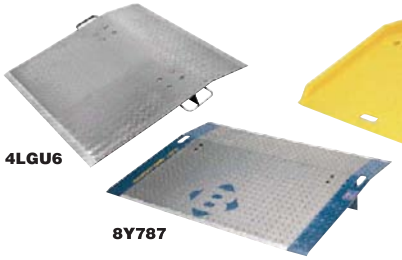
20G280

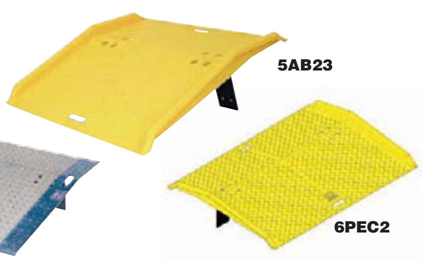
BLUFF MANUFACTURING, INC.

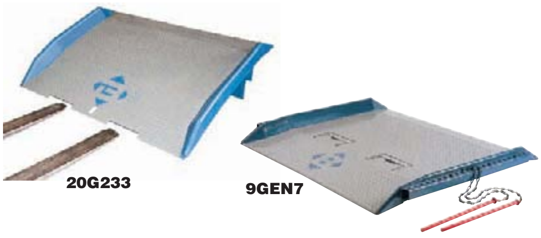
Steel Yard Ramps

These ramps are designed to load trailers from ground level. Deep side members prevent run-off for forklift use. The usable width of 78" allows transit of most lift trucks and electric vehicles.

Load Capacity	Overall Length	Overall Width	Lowered Height	Raised Height	Brand	Item No.
16,000 lb	30 ft	84 in	40 in	72 in	Bluff	**9DL31**
	36 ft Including a 6 ft Level Off	84 in	33 in	67 in	Bluff	**8AKJ2**
20,000 lb	36 ft Including a 6 ft Level Off	84 in	33 in	67 in	Bluff	**8AKJ3**
30,000 lb	30 ft	70 in	40 in	72 in	—	**32KG02**
	30 ft	84 in	40 in	72 in	—	**32KG03**
	36 ft Including a 6 ft Level Off	70 in	33 in	67 in	—	**32KG05**
	36 ft Including a 6 ft Level Off	84 in	33 in	67 in	—	**20G280**







Dockplates, Dockboards, and Container Ramps

BLUFF MANUFACTURING, INC. — HEAVY DUTY HD RAMPS

Aluminum Dockplates—Nonskid tread plate. Zinc-plated handle or hand-holds on each side. Locking legs secure dockplate when in use.

Aluminum Fork Truck Dockboards with Aluminum Curbs—Handle higher load capacities than dockplates. Feature safety curbs. Positive traction treadplate with beveled entrance and exit lip. Legs allow easy fork truck positioning and secure dockboard when in use, for OSHA compliance. When using 3-wheeled fork truck, order dockboard with capacity at least four times the lifting capacity of the fork truck.

Aluminum Fork Truck Dockboards with Steel Curbs—Structural steel safety curbs are bolted to each side of dockboard. When using 3-wheeled fork truck, order dockboard with capacity at least four times the lifting capacity of the fork truck.

Aluminum Hand Truck Dockboards—Use with 2-wheel hand trucks only. Diamond tread surface and beveled edges. Bolted locking legs for OSHA compliance.

Container Ramps—For fast loading and unloading at ground level. Eliminate the need for queuing.

Polyethylene Dockplates—Designed for light-duty applications. Integrated guardrails and handles. Hardware included. Meet OSHA 1910.30(a).

Steel Fork Truck Dockboards with Steel Curbs—Lever lift mechanism raises front edge of dockboard off the ground to allow for one-person operation. Lever automatically falls to rest position as dockboard is lifted. When using 3-wheeled fork truck, select capacity +20% greater than the lifting capacity of the fork truck.

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
Aluminum Dockplates					
1,400 lb	48 in	30 in	7 in	—	**4LGV4**
1,800 lb	60 in	48 in	9 in	—	**4LGU7**
1,900 lb	48 in	36 in	7 in	—	**4LGV6**
2,500 lb	36 in	36 in	5 in	—	**4LGV3**
2,600 lb	48 in	48 in	7 in	—	**4LGV9**
2,900 lb	48 in	60 in	7 in	—	**4LGU8**
3,000 lb	30 in	36 in	4 in	—	**4LGV5**
3,300 lb	30 in	42 in	4 in	—	**4LGV7**
3,500 lb	36 in	48 in	5 in	—	**4LGU6**
3,600 lb	24 in	36 in	3 in	—	**4LGV2**
3,800 lb	48 in	48 in	7 in	—	**4LGU9**
4,100 lb	36 in	60 in	5 in	—	**4LGW1**
4,000 lb	24 in	36 in	1 in	Bluff	**8Y787**
5,200 lb	24 in	48 in	3 in	—	**4LGV8**
5,300 lb	36 in	48 in	5 in	—	**4LGW2**
6,600 lb	36 in	60 in	5 in	—	**4LGV1**
9,500 lb	30 in	72 in	4 in	—	**4LGW3**
11,350 lb	30 in	72 in	2 in	Bluff	**9HPE2**
Aluminum Fork Truck Dockboards with Aluminum Curbs					
5,000 lb	30 in	60 in	3 in to 4 in	—	**6XW86**
8,000 lb	48 in	72 in	5½ in to 7 in	—	**4W598**
15,000 lb	59 ¾ in	60 in	7 in to 10 in	—	**6XW90**

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
Aluminum Fork Truck Dockboards with Steel Curbs					
10,000 lb	72 in	60 in	8½ in to 11 in	Bluff	**9MHD0**
15,000 lb	60 in	60 in	7 in to 9 in	Bluff	**9MHD1**
20,000 lb	36 in	60 in	5 in	—	**6XX29**
	36 in	72 in	5 in	—	**6XX31**
	48 in	60 in	7 in	—	**6XX30**
	48 in	72 in	7 in	—	**6XX32**
Aluminum Hand Truck Dockboards					
800 lb	59 ⅞ in	37 ¼ in	10 in	—	**6XW74**
Steel Container Ramps					
15,000 lb	60 in	60 in	7 in to 9 in	Bluff	**20G252**
	72 in	60 in	8½ in to 11 in	Bluff	**20G253**
	72 in	72 in	8½ in to 11 in	Bluff	**20G258**
20,000 lb	60 in	72 in	7 in to 9 in	Bluff	**20G262**
Aluminum, Epoxy Grit Coat Container Ramps					
8,000 lb	36 in	36 in	1 in to 6 in	Heavy Duty Ramps	**60UG07**
	48 in	36 in	1 in to 8 in	Heavy Duty Ramps	**60UG08**
	48 in	45 in	1 in to 8 in	Heavy Duty Ramps	**60UG09**

Load Capacity	Overall Length	Overall Width	Service Height Range	Brand	Item No.
12,000 lb	48 in	63 in	1 in to 8 in	Heavy Duty Ramps	**60UG10**
	60 in	63 in	1 in to 10 in	Heavy Duty Ramps	**60UG11**
Polyethylene Dockplates					
750 lb	36 in	35 in	4 in	—	**5AB23**
	36 in	48 in	4 in	—	**6PEC2**
Steel Fork Truck Dockboards with Steel Curbs					
10,000 lb	36 in	72 in	5 in	—	**6XX34**
	48 in	60 in	5 in to 7 in	Bluff	**20G233**
	48 in	72 in	7 in	—	**4W600**
	60 in	60 in	7 in to 9 in	Bluff	**20G234**
15,000 lb	36 in	72 in	5 in	—	**4W601**
	48 in	60 in	5 in to 7 in	Bluff	**9GEN7**
	48 in	72 in	5 in to 7 in	Bluff	**8CEG6**
	48 in	72 in	7 in	—	**6XX37**
	54 in	72 in	8½ in	—	**4W602**
	60 in	60 in	7 in to 9 in	Bluff	**9HY65**
	60 in	72 in	7 in to 9 in	Bluff	**20G243**
	72 in	72 in	8½ in to 11 in	Bluff	**8AKH9**
20,000 lb	48 in	72 in	5 in to 7 in	Bluff	**20G248**
	48 in	84 in	5 in to 7 in	Bluff	**20G272**
	72 in	84 in	8½ in to 11 in	Bluff	**20G274**
	72 in	72 in	8½ in to 11 in	Bluff	**8XPZ3**

Aluminum Walk Ramps

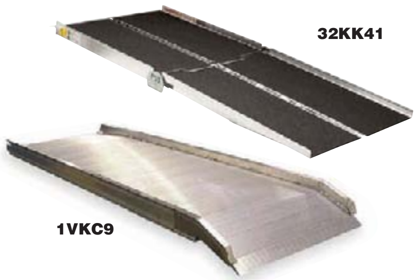
- Nonskid surfaces

1VKC9 and 1VKD1 to 1VKD8 have 3¾"H curb. 1FC73 to 1FC75 have 4¼"H side rails to keep load safely on ramp. Two 36"L safety chains hold ramp in place.

Note: Ramps are designed for use with hand trucks. Do not use with powered equipment or pallet jacks.

Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Adjustable Ramps - Without Side Rail				
800 lb	32 in	1 ft	1 in to 2 in	**32KK54**
800 lb	32 in	2 ft	2 in to 4 in	**32KK56**
800 lb	32 in	3 ft	3½ in to 6 in	**32KK58**
800 lb	32 in	4 ft	4 in to 6 in	**32KK60**
800 lb	36 in	1 ft	1 in to 2 in	**32KK55**
800 lb	36 in	2 ft	2 in to 4 in	**32KK57**
800 lb	36 in	3 ft	3½ in to 6 in	**32KK59**
800 lb	36 in	4 ft	4 in to 6 in	**32KK61**
Multi Fold Ramps - 1 ½ in Side Rail				
800 lb	30 in	5 ft	5 in to 10 in	**32KK41**
800 lb	30 in	6 ft	6 in to 12 in	**32KK42**
800 lb	30 in	7 ft	7 in to 14 in	**32KK43**
800 lb	30 in	8 ft	8 in to 16 in	**32KK44**

Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Ramps with Handrails - 2 in Side Rail				
850 lb	36 in	4 ft	4 in to 8 in	**32KK68**
850 lb	36 in	5 ft	5 in to 10 in	**32KK69**
850 lb	36 in	6 ft	6 in to 12 in	**32KK70**
850 lb	36 in	7 ft	7 in to 14 in	**32KK71**
850 lb	36 in	8 ft	8 in to 16 in	**32KK72**
Single Fold Ramps - 1 ½ in Side Rail				
800 lb	30 in	2 ft	2 in to 4 in	**32KK34**
800 lb	30 in	3 ft	3 in to 6 in	**32KK35**
800 lb	30 in	4 ft	4 in to 8 in	**32KK36**
800 lb	30 in	5 ft	5 in to 10 in	**32KK37**
Solid Ramps - 1 ½ in Side Rail				
800 lb	30 in	3 ft	3 in to 6 in	**32KK62**
800 lb	30 in	4 ft	4 in to 8 in	**32KK64**
800 lb	30 in	5 ft	5 in to 10 in	**32KK66**
800 lb	36 in	3 ft	3 in to 6 in	**32KK63**
800 lb	36 in	4 ft	4 in to 8 in	**32KK65**
800 lb	36 in	5 ft	5 in to 10 in	**32KK67**
Solid Ramps - 3 ¾ in Side Rail				
1,000 lb	40 in	16 ft	6 to 62 in	**1VKD8**
1,200 lb	38 in	14 ft	6 to 54 in	**1VKD6**
1,400 lb	28 in	12 ft	6 to 46 in	**1VKD5**
1,400 lb	38 in	12 ft	6 to 48 in	**4YFP2**
1,400 lb	40 in	12 ft	6 to 46 in	**1VKD7**
1,500 lb	38 in	10 ft	6 to 38 in	**1VKD4**
1,700 lb	28 in	8 ft	6 to 29 in	**1VKD2**
1,700 lb	38 in	8 ft	6 to 29 in	**1VKD3**
2,000 lb	28 in	6 ft	6 to 21 in	**1VKC9**
2,000 lb	38 in	6 ft	6 to 21 in	**1VKD1**



Load Capacity	Overall Width	Overall Length	Service Height Range	Item No.
Solid Ramps - 4 ¼ in Side Rail				
2,200 lb	39 ½ in	10 ft	2 to 37 in	**1FC75**
2,500 lb	29 in	8 ft	2 to 31 in	**1FC74**
2,800 lb	29 in	69 in	2 to 21 in	**1FC73**
Threshold Ramps - Without Side Rail				
600 lb	32 in	8 in	½ in to 1¼ in	**32KK47**
600 lb	32 in	10 in	½ in to 1¼ in	**32KK48**
600 lb	32 in	12 in	1 in to 2 in	**32KK49**
600 lb	32 in	16 in	1¼ in to 2½ in	**32KK50**
600 lb	32 in	24 in	2 in to 4 in	**32KK52**
600 lb	36 in	16 in	1¼ in to 2½ in	**32KK51**
600 lb	36 in	24 in	2 in to 4 in	**32KK53**

Loading Ramps

For loading machines and small vehicles. Ramps have rubber-tipped fingers that provide traction and prevent scratching. Safety straps included.

Description	Load Capacity	L	W	Item No.
1-Piece Steel	1000 lb / Pair	72 in	9 in	**1DLU8**
1-Piece Steel	1000 lb / Pair	96 in	9 in	**1DLU9**
Centerfold Steel Mesh Ramp	1,600 lb	80 in	11 in	**52JU43**
Straight Aluminum Ramp	1,400 lb	72 in	15 in	**52JU42**
Folding Aluminum	1,500 lb	78 in	50 in	**1TFZ3**

Hand Pump Hydraulic

Mechanical Spring Counterbalance

Electric Hydraulic

Dock Levelers

- Load capacity: 20,000 lb.
- For docks at least 48"H

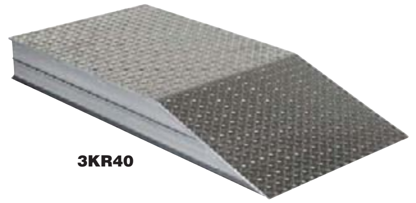
Permanently attach to dock face. Provide service range of 5" up, 5" down. No concrete recess required. Include 2" x 8" x 18" bumpers and steel bumper boxes. Can be used with Dock Seal 3KR49 or Dock Shelter 3KR50.

Dock Leveler Lift Mechanism	Usable Width	Overall Width	Item No.
Mechanical Spring Counterbalance	66 in	93 in	**5Z151**
	72 in	99 in	**3KR66**
Hand Pump Hydraulic	66 in	93 in	**6XX23**
	72 in	99 in	**6XX24**
Electric Hydraulic	66 in	93 in	**6XX21**
	72 in	99 in	**6XX22**

Mechanical Spring Counterbalances— Include handle for manual operation.

Hand Pump Hydraulics—Include hand pump, brackets, cylinder, hydraulic line, and oil.

Electric Hydraulics—Powered by ¾ HP, 110/220V, single-phase motor prewired to 115V, single-phase standard. Include motor, pump, control box, cylinder, brackets, lines, and oil.


3KR40

Aluminum Truck Wheel Risers

- Priced and sold individually

30,000-lb. capacity per pair.

H	W	L	Level Length	Item No.
6 in	18 in	48 in	30 in	**4UP78**
6 in	24 in	48 in	30 in	**3KR40**
6 in	24 in	60 in	42 in	**6XW79**
8 in	18 in	54 in	30 in	**6XW77**
8 in	24 in	54 in	30 in	**6XW81**
8 in	24 in	60 in	36 in	**6XW82**
8 in	24 in	108 in	84 in	**6XW80**
12 in	24 in	72 in	36 in	**6XW78**

20G291

Steel Truck Wheel Risers

- 40,000-lb. capacity per pair
- Priced and sold individually

H	W	L	Level Length	Item No.
4 in	24 in	96 in	84 in	**20G297**
6 in	24 in	48 in	30 in	**20G291**
6 in	24 in	102 in	84 in	**20G292**
8 in	24 in	54 in	30 in	**20G293**
8 in	24 in	108 in	84 in	**20G294**
10 in	24 in	60 in	30 in	**20G295**
12 in	24 in	120 in	84 in	**20G296**

Dock Seal

Dock Seal/Shelter Combination

Dock Seals and Seal/Shelter Combinations

Dock seals have 36-oz. nylon-reinforced vinyl facing, mounted and bonded on wolmanized wood. Dock seal/shelter combinations have 18-oz. nylon-reinforced sides and 40-oz. nylon-reinforced top. Seals fasten directly to surface of building wall. Include 24"H yellow guide stripes and installation hardware.

Projection	Side Width	Side Height	Header Height	Overall Width	Overall Height	Fits Door Width	Fits Door Height	Item No.
Dock Seal								
10 in	12 in	96 in	12 in	120 in	108 in	8 ft	8 ft	**5Z152**
10 in	12 in	108 in	12 in	120 in	120 in	8 ft	9 ft	**2HEP9**
12 in	12 in	96 in	12 in	120 in	108 in	8 ft	8 ft	**5MKA5**
12 in	12 in	108 in	12 in	120 in	120 in	8 ft	9 ft	**5MKA7**
20 in	12 in	96 in	12 in	120 in	108 in	8 ft	8 ft	**3KR49**
20 in	10 in	108 in	12 in	120 in	120 in	8 ft	9 ft	**2HER1**
Dock Seal/Shelter Combination								
10 in	12 in	120 in	30 in	114 in	126 in	8 ft	10 ft	**2HER4**
12 in	12 in	120 in	30 in	114 in	126 in	8 ft	10 ft	**5MKA6**
20 in	12 in	120 in	30 in	114 in	126 in	8 ft	10 ft	**2HER5**

2HER3

Dock Shelter

Dock Shelters

- Max. door size of 10 ft. W x 10 ft. H
- 132"W x 126"H

Seal off warehouse and interior loading dock from outside elements, keeping heating and cooling air inside and the elements out while allowing full access to truck door height and width. Heavy-duty reinforced vinyl exterior reduces wear.

Includes	Projection	Item No.
Safety Yellow Steel Guide Protectors and Corner Filler Pads, 36 in Drop Curtain with 40 oz Pleat, 21 in Vertical Flaps, Installation Hardware and Instructions	18 in	**2HER2**
	24 in	**3KR50**
Independent Spring Loaded Scissors Mechanism to Allow Shelter to Retract With the Trailer Keeping the Shelter Square, Installation Hardware and Instructions	24 in	**2HER3** *
Safety Yellow Steel Guide Protectors and Corner Filler Pads, 36 in Drop Curtain with 40 oz Pleat, 21 in Vertical Flaps, Installation Hardware and Instructions	30 in	**5MKA8**
	36 in	**5MKA9**
Dock Seal Patch Kit		
(2) Pieces of 18 oz Vinyl 12 in x 36 in; (2) Pieces of 18 oz Vinyl 12 in x 24 in; (2) Pieces of 18 oz Vinyl 12 inx12 in; (1) 18 oz Can Of Glue and Instructions		**5MKC0**

*** Retractable.**

5GAC5

Dock Barricades

- Welded steel construction
- Safety yellow finish
- 24"W

Mechanical model 5GAC5 has a hand crank winch and counter balance weight. Electric hydraulic models 5GAC3 and 5GAC4 include powered lift with 115V lift motor and 24V hand control.

Description	Overall Length	Raised Arm Height	Lowered Arm Height	Item No.
Mechanical Hand Winch For Use With 8 ft. x 8 ft. Doors	133 ¼ in	149 in	32 in	**5GAC5**
Electric Hydraulic For Use With 8 ft. x 8 ft. Doors	130 in	148 ⅝ in	28 ½ in	**5GAC3**
Electric Hydraulic For Use With 10 ft. x 10 ft. Doors	157 in	172 ⅝ in	28 ½ in	**5GAC4**

Dock Bumpers

Weather- and abrasion-resistant; protect docks, dock levelers, and shelters from impact damage. Individual sections can be replaced if damaged. Installation Kits 33F680 and 33F681 are sold separately.

LAMINATED DOCK BUMPERS

Prevent impact damage at loading dock. Constructed from same material used in heavy-duty tire cord. Weld to channel or to curb angle with one preset bolt. Mount with anchor bolts in new concrete construction or with lag bolts and shields for existing concrete. Wood dock mount requires lagging. Flush-mounted.

D-SHAPE

Compress on contact, reducing impact force between building and vehicle. Mounting holes on the back of the bumper protect vehicle's finish. 1-piece construction reduces gaps between bumpers.

L- AND T-SHAPE

T-Shape 2MYR8 includes a reflector.

RECTANGULAR

Include a thick molded-in steel bar running the length of each bumper; anchor the rubber to the dock. Mounting fasteners not included.

BUMPER STOP

Draws attention to high-traffic areas. Features a neon yellow caution stripe down its center, recessed to protect it from impact damage.

INSTALLATION KITS

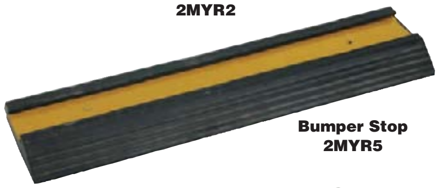
Single Bumper—Includes four concrete anchor bolts (¾" x 4"L) and one ¾" masonry drill bit for installing one laminated dock bumper.

Additional Bumper—Includes four concrete anchor bolts (¾" x 4"L). Does not include masonry drill bit.

Rectangular 5W823

L-Shape 2MYR3

Rectangular 2MYR2



Bumper Stop 2MYR5

Overall Width	Overall Height	Overall Depth	Mounting Holes O.C. W	Mounting Hole Dia.	Item No.
Laminated Rubber					
Rectangular					
13 in	24 in	4 ½ in	11 in	⅞ in	**22NT90**
	36 in	4 ½ in	11 in	⅞ in	**22NT91**
14 in	10 in	4 ½ in	12 in	13⁄16 in	**3KR36**
	12 in	4 ½ in	12 in	⅞ in	**22NT86**
16 in	10 in	4 ½ in	14 in	13⁄16 in	**5W823**
20 ¾ in	10 in	4 ½ in	18 in	13⁄16 in	**5W824**
20 in	10 in	4 ½ in	18 in	⅞ in	**22NT83**
	10 in	6 in	18 in	13⁄16 in	**4W942**
	12 in	4 ½ in	18 in	⅞ in	**22NT87**
26 in	10 in	4 ½ in	24 in	13⁄16 in	**5W825**
	10 in	4 ½ in	24 in	⅞ in	**22NT84**
	12 in	4 ½ in	24 in	⅞ in	**22NT88**
38 in	6 in	4 ½ in	36 in	13⁄16 in	**5W826**
	10 in	4 ½ in	36 in	⅞ in	**22NT85**
	12 in	4 ½ in	36 in	13⁄16 in	**5W827**
Molded Rubber					
D-Shape					
12 in	1 11⁄16 in	2 in	6 in	⅜ in	**22NT58**
	4 in	4 ¼ in	6 in	⅞ in	**22NT61**
24 in	1 11⁄16 in	2 in	18 in	⅜ in	**22NT59**
	4 in	4 ¼ in	18 in	⅞ in	**22NT62**
36 in	1 11⁄16 in	2 in	15 in	⅜ in	**22NT60**
	4 in	4 ¼ in	15 in	⅞ in	**22NT63**
L-Shape					
18 in	18 in	4 in	10 ¼ in	3 ¾ in	**2MYR3**
Rectangular					
2 in	2 ½ in	8 in	—	½ in	**22NT80**
3 ½ in	6 in	3 ½ in	—	½ in	**22NT82**
4 ½ in	10 in	3 in	5 in	1 ½ in	**2MYP8**
	30 in	3 in	5 in	1 ½ in	**2MYP9**
5 ½ in	8 in	3 ½ in	5 ½ in	19⁄32 in	**22NT81**
16 in	2 in	2 in	—	½ in	**22NT79**
18 in	8 in	2 in	8 in	2 in	**2MYR2**
24 in	12 in	3 in	6 in	⅞ in	**2MYR9**
Rectangular Bumper Stop					
5 ¼ in	18 in	1 ⅜ in	3 in	1 ⅛ in	**2MYR5**
Solid Black Rectangular					
12 in	13 in	4 in	9 ¼ in	⅞ in	**2MYR1**
T-Shape					
22 in	22 in	3 in	15 13⁄16 in	⅞ in	**2MYR8**
Yellow Face					
12 in	13 in	4 in	7 ½ in	⅞ in	**2MYR4**

Overall Width	Overall Height	Overall Depth	Mounting Holes O.C. W	Mounting Hole Dia.	Item No.
Recycled Rubber					
Rectangular					
10 in	13 in	5 in	7 in	13⁄16 in	**32KL52**
10 ⅛ in	20 in	4 ½ in	8 in	13⁄16 in	**26W604**
13 ⅛ in	10 in	4 ½ in	6 in	13⁄16 in	**26W603**
13 in	20 in	4 ½ in	11 in	13⁄16 in	**26W591**
	20 in	6 in	11 in	13⁄16 in	**26W595**
	24 in	4 ½ in	11 in	13⁄16 in	**26W592**
	24 in	6 in	11 in	13⁄16 in	**26W596**
	30 in	4 ½ in	11 in	13⁄16 in	**26W593**
	30 in	6 in	11 in	13⁄16 in	**26W597**
	36 in	4 ½ in	11 in	13⁄16 in	**26W594**
	36 in	6 in	11 in	13⁄16 in	**26W598**
14 in	10 in	6 in	12 in	13⁄16 in	**26W579**
	12 in	4 ½ in	12 in	13⁄16 in	**26W573**
	12 in	6 in	12 in	13⁄16 in	**26W584**
16 in	10 in	6 in	14 in	13⁄16 in	**26W580**
	12 in	4 ½ in	14 in	13⁄16 in	**26W574**
	12 in	6 in	14 in	13⁄16 in	**26W585**
20 in	12 in	4 ½ in	18 in	13⁄16 in	**26W575**
	12 in	6 in	18 in	13⁄16 in	**26W586**
26 in	6 in	4 ½ in	24 in	13⁄16 in	**26W569**
	10 in	6 in	24 in	13⁄16 in	**26W581**
	12 in	4 ½ in	24 in	13⁄16 in	**26W576**
	12 in	6 in	24 in	13⁄16 in	**26W587**
32 in	10 in	4 ½ in	30 in	13⁄16 in	**26W570**
	10 in	6 in	30 in	13⁄16 in	**26W582**
38 in	10 in	4 ½ in	36 in	13⁄16 in	**26W571**
	10 in	6 in	36 in	13⁄16 in	**26W583**
	12 in	6 in	36 in	13⁄16 in	**26W589**
98 in	10 in	4 ½ in	96 in	13⁄16 in	**26W572**
	12 in	4 ½ in	96 in	13⁄16 in	**26W578**
	12 in	6 in	96 in	13⁄16 in	**26W590**
Steel Face					
13 in	20 in	5 ¼ in	11 in	⅞ in	**22NT72**
	24 in	5 ¼ in	11 in	⅞ in	**22NT73**
	36 in	5 ¼ in	11 in	⅞ in	**22NT74**
16 in	10 in	5 ¼ in	14 in	⅞ in	**22NT64**
	12 in	5 ¼ in	14 in	⅞ in	**22NT68**
20 in	10 in	5 ¼ in	18 in	⅞ in	**22NT65**
	12 in	5 ¼ in	18 in	⅞ in	**22NT69**
Installation Kits					
Single Bumper Installation Kit					**33F680**
Additional Bumper Installation Kit					**33F681**

Solid Black 2MYR1

T-Shape 2MYR8

32KL52

Steel Face 22NT72

Trailer/Crane Bumpers

- Priced and sold in sets of 2

Mount directly onto truck trailers and cranes to protect them from contact with docks, buildings, or other trailers and cranes. Mounting hardware not included. 2MYR7 includes steel washers molded in bottom of access holes.

2MYR6

Overall Width	Overall Height	Overall Depth	Mounting Hole Dia.	Mounting Holes O.C. W	Item No.
3 ½ in	6 in	3 ⅛ in	1 ¼ in	3 in	**2MYR6** *
3 ½ in	6 ¼ in	3 ⅝ in	1 ¼ in	3 ½ in	**2MYR7**

*** Slotted to 3".**

Clearance Bars

Include eye bolts. 6MGV7 and 6MGV8 include lettering kit.

4PHE1

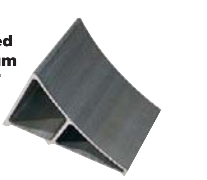
6MGV7

Overall Length	Outside Dia.	Material	Item No.
76 in	5 in	Polyethylene	**4PHD9**
77 in	7 in	Polyethylene	**4PHE1**
80 in	5 in	Polyethylene	**6MGV7**
80 in	7 ⅜ in	Polyethylene	**6MGV8**

22XW75

22XW88

Molded Rubber with Eyebolt 1GUL1



Extruded Aluminum 5A347

General Purpose Wheel Chocks

RUBBER

Molded Rubber—Resist tearing, abrasion, and ozone weathering. 3W666 wedges both sides of wheel with two molded rubber chocks. Order one unit for each wheel. 22XW75 is made of recycled rubber for utility trucks and trailers. 1GUK4 to 1GUK6 feature a grooved surface. 1GUK7 to 1GUK9 are hollow and 3-sided.

Molded Urethane—Rubber pads grip pavement. Width of chock has molded open area for attaching security chain.

Laminated Rubber—Cord-reinforced serrated rubber on steel rods. Feature large handle.

STEEL

Heavy-Duty Steel—Bottom teeth for maximum traction. With easy-grip slot for pickup and positioning. 1GUL3 includes 10-ft. chain.

Formed Steel—Long-life, all-weather chocks have saw tooth bottom. Include hole for attaching security chain and hanger.

ALUMINUM

Extruded Aluminum—Serrated surface grips tire, and triple-edged bottom grips ground.

Description	W	H	D	Color	Item No.
Rubber					
Molded Rubber					
With Carrying Handle	4 in	6 in	7 ⅝ in	Black	**22XW85**
With Carrying Handle, Grip Bottom	4 ½ in	7 in	10 ½ in	Black	**22XW83**
Kit includes Mfr. No. 22XW75, 22XW77, 22XW78, 22XW79	8 in	5 ½ in	10 in	Black	**22XW80**
With Steel Grab Handle, Ice Cleat Tread	8 in	5 ½ in	10 in	Black	**22XW75**
With Steel Grab Handle, Serrated Tread	8 in	5 ½ in	10 in	Black	**22XW79**
With Steel Grab Handle, Hollow Tread	8 in	5 ½ in	10 in	Black	**22XW78**
With Steel Grab Handle, Smooth Tread	8 in	5 ½ in	10 in	Black	**22XW77**
With Steel Grab Handle	8 in	5 ½ in	9 ½ in	Black	**22XW74**
	8 in	6 in	10 in	Black	**22XW88**
	8 in	6 in	10 in	Orange	**22XW89**
	9 ¼ in	6 in	8 in	Orange	**19P541**
	8 in	6 in	9 ⅞ in	Black	**22XW72**
	8 in	5 in	10 in	Black	**22XW73**
With Steel Grab Handle and Eye Bolt	10 in	6 in	8 in	Orange	**1GUK3**
	10 in	6 in	8 in	Black	**2A092**
With Rubber Grab Handle and Hole for Attaching Chain	7 ¼ in	7 ⅝ in	9 ⅜ in	Black	**1GUL2**
With Eyebolt	9 in	6 in	8 in	Black	**1GUL1**
With Steel Eyebolt	8 in	5 ½ in	9 in	Black	**22XW81**
	8 in	5 ½ in	9 in	Black	**22XW82**
	8 in	5 ¾ in	9 in	Orange	**22XW71**
	6 in	7 ½ in	11 ½ in	Black	**22XW84**
With Molded Hole	8 in	8 in	13 ¾ in	Orange	**22XW87**
With Rope Handle	3 ⅝ in	2 ½ in	8 in	Black	**22XW86**
	10 in	4 ½ in	5 in	Black	**3W666**
With Hollow Center	4 in	3 in	6 ¾ in	Black	**1GUK4**
	6 in	3 in	6 ¾ in	Black	**1GUK5**
	12 in	3 in	6 ¾ in	Black	**1GUK6**
With Reflective Tape	10 in	4 in	4 ¼ in	Black with Yellow Tape	**1GUK7**
	12 in	6 in	6 ½ in	Black with Yellow Tape	**1GUK8**
	30 in	6 in	6 ½ in	Black with Yellow Tape	**1GUK9**
Extruded with Molded Hole for Attaching Chain	6 ½ in	4 ½ in	5 in	Black	**19P546**
Molded Urethane					
Molded Urethane	7 ⅝ in	8 ¼ in	11 ¾ in	Orange	**33K204**
	9 ¼ in	6 in	8 in	Orange	**19P545**
With Molded Hole for Attaching Chain	8 in	8 in	11 in	Orange	**4W941**
	14 ½ in	14 ¼ in	17 ¼ in	Orange	**1GUL6**
	15 in	11 in	11 ¾ in	Yellow	**1GUL5**
Laminated Rubber					
Laminated with Steel Hook Loop	11 ⅛ in	13 ¾ in	13 ¾ in	Black	**19P550**
With Steel Hook Loop	7 in	7 ½ in	7 ½ in	Black	**1GUL4**
With Large Handle	10 in	5 ½ in	10 ½ in	Black	**3KR79**
Steel					
Heavy-Duty Steel	8 ½ in	8 ¼ in	7 in	Yellow	**22XW76**
	9 ¾ in	7 ¾ in	10 ½ in	Yellow	**1GUL3**
Formed Steel	6 in	9 in	17 ⅛ in	Yellow	**19P547**
	8 in	9 in	10 ¾ in	Yellow	**3KR56**
Welded Steel	7 ⅝ in	9 in	9 3/16 in	Yellow	**19P548**
Fabricated Steel with 10 ft Chain	10 ½ in	7 ½ in	10 ½ in	Yellow	**19P549**
Cast Iron					
Heavy-Duty Cast Steel	9 in	8 ½ in	8 in	Silver	**2W874**
Aluminum					
Extruded Aluminum	7 in	8 in	11 ⅝ in	Yellow	**19P542**
Extruded Aluminum with Handle	7 in	8 in	11 ⅝ in	Silver	**19P543**
Extruded Aluminum with Triple Edged Bottom Grip Ground	7 in	8 ½ in	11 in	Silver	**5A347**
Extruded Aluminum includes Flag With Sign	7 in	8 in	11 ⅝ in	Silver	**19P544**
Accessories					
Chain and Anchor	—	—	—	Silver	**5A348**

Rail Car Wheel Chock 22XW90

Monster® Wheel Chocks 21ZF79

Monster® Aviation Wheel Chocks 5NHP9

Specialty Wheel Chocks

Rail Car Wheel Chocks—All-welded steel chocks for securing rail cars for safe loading and unloading. No. 22XW93 is sold as a pair.

Wheel Chocks—Urethane construction made for mining and construction trucks. Will not cause tire damage. Oil- and chemical-resistant. Feature carrying handle.

Aviation Wheel Chocks—Impact-absorbing urethane construction. Oil- and chemical-resistant. Will not rot or splinter. Feature replaceable nylon rope lanyards.

All-Terrain Urethane Wheel Chocks—Oil- and chemical-resistant. For use with utility trucks and trailers. Urethane chocks are designed for fire trucks and all-terrain applications. Feature carrying handle. All-Terrain Urethane chocks comply with NFPA 1901-1909 and meet SAE-J348 Specifications.

Description	W	H	D	Color	Brand	Item No.
Rail Car Wheel Chocks						
With (1) Chock	7 ½ in	3 ¾ in	12 ½ in	Yellow	—	**22XW91**
With (2) Chocks and Chain	7 ½ in	3 ¾ in	12 ½ in	Yellow	—	**22XW93**
Chocks Include Legend: "Chock Your Wheels" and Flag	7 ½ in	20 in	41 in	Yellow	—	**22XW90**
Chocks Include Legend: "Chock Your Wheels" (2) Chocks, Chain and Flag	7 ½ in	20 in	41 in	Yellow	—	**22XW92**
Urethane Heavy Duty Wheel Chocks						
For Use with Heavy Equipment	14 ½ in	16 in	24 ⅝ in	Yellow	Checkers	**21ZF81**
	14 15/16 in	10 19/32 in	21 15/16 in	Yellow	Checkers	**21ZF82**
	15 13/64 in	10 in	17 11/16 in	Yellow	Checkers	**21ZF80**
	15 7/64 in	11 in	15 in	Yellow	Checkers	**21ZF79**
Mounting Bracket for use with Chocks						
Chock Holder	36 in	5 in	6 in	Steel	Checkers	**5NHP0**
Urethane Aviation Wheel Chocks						
24 in Rope	4 ½ in	2 ¾ in	5 ½ in	Hi-Vis Yellow	Checkers	**5NHP9**
Wheel Chock	5 in	3 in	12 in	Hi-Vis Yellow	Checkers	**5NHR0**
	6 in	4 in	14 in	Hi-Vis Yellow	Checkers	**5NHR8**
	5 in	3 in	15 in	Hi-Vis Yellow	Checkers	**5NHR2**
	5 in	3 in	18 in	Hi-Vis Yellow	Checkers	**5NHR4**
	8 in	6 in	20 in	Hi-Vis Yellow	Checkers	**5NHT0**
Aircraft Wheel Chock	5 in	3 in	21 in	Hi-Vis Yellow	Checkers	**5NHR6**
With 24 in Rope	5 in	3 ¼ in	12 in	Hi-Vis Yellow	Checkers	**5NHR1**
	5 in	3 ¼ in	15 in	Hi-Vis Yellow	Checkers	**5NHR3**
	5 in	3 ¼ in	18 in	Hi-Vis Yellow	Checkers	**5NHR5**
	5 in	3 ¼ in	21 in	Hi-Vis Yellow	Checkers	**5NHR7**
With 36 in Rope	6 in	4 ¼ in	14 in	Hi-Vis Yellow	Checkers	**5NHR9**
	8 in	6 in	20 in	Hi-Vis Yellow	Checkers	**5NHT1**
With 48 in Rope	8 in	6 in	56 in	Hi-Vis Yellow	Checkers	**5NHT2**
All-Terrain Urethane Wheel Chocks						
All-Terrain	8 ½ in	8 ¼ in	15 ½ in	Yellow	Checkers	**5NHT4**
	8 ½ in	8 ¼ in	15 ½ in	Yellow	Checkers	**5NHT6**
	11 ¼ in	12 ¼ in	21 in	Yellow	Checkers	**5NHU0**
	11 ¼ in	12 ¼ in	21 in	Yellow	Checkers	**5NHU2**
Utility Vehicles	7 ½ in	6 ¼ in	8 ½ in	Orange	Checkers	**8Y016**
	9 in	8 ½ in	11 ½ in	Orange	Checkers	**3KRT7**
Mounting Brackets for use with All-Terrain Wheel Chocks						
Horizontal for 5NHT6	11 ⅛ in	6 ¾ in	16 in	Silver	Checkers	**5NHT7**
Vertical for 5NHT6	12 in	5 ¾ in	14 in	Silver	—	**5NHT8**
Horizontal for 5NHU0 to 5NHU2	14 ⅛ in	6 ¾ in	21 ¾ in	Silver	Checkers	**5NHU3**
Vertical for 5NHU0 to 5NHU2	12 ¼ in	1 ⅝ in	21 ¾ in	Silver	Checkers	**5NHU4**

Speed Bumps, Cable Ramps, and Mounting Kits

- Rubber products are made from 100% recycled content

Note: This temporary solution is not meant to be left unattended or used on high-speed roads.

Speed Bumps—Use to aggressively slow down traffic close to a stop. Also cover cabling, piping, and have channeled bottom for drainage. Bumps with hardware included allow easy installation and different length requirements. Include 1 center, 2 end modules, and mounting hardware.

Alley Bumps—Multipiece bumps address cut-through traffic in alleyways by drastically slowing vehicle speed. One center and two end modules are included to accommodate different length requirements.

Portable Speed Bump—Protect workers and pedestrians in 15 to 45 mph speed areas by helping to temporarily control traffic flow. Bump conforms to virtually any road surface and can be deployed and retrieved in seconds.

Speed Humps—Use on roadways to moderately slow traffic. Humps alert drivers of pedestrians and hazards ahead.

Cable Ramps—Drop-over ramps are placed over cable and hose lines that run along the ground and they are lightweight. 2GWL7 to 2GWL9 are wider to increase channel height while retaining incline. Aluminum ramps have a serrated surface to increase traction, and they're lightweight for portability. Polyurethane ramps have indents for traction and are weather- and chemical-resistant.

Speed Bump Glue Down Kits—For applications where drilling holes in the mounting surface is not recommended. For 72"L speed bumps order 2 Glue Down Kits 5XPR8.

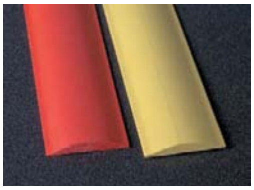
H	W	L	Color	Item No.
Speed Bumps, Rubber				
2 ¼ in	12 in	4 ft	Black/Yellow	**29NH40**
2 ¼ in	12 in	6 ft	Black/Yellow	**29NH35**
Speed Bumps with Concrete Mounting Hardware, Rubber				
1 ⅛ in	24 in	9 ft	Black/Yellow	**29NH25**
2 in	36 in	10 ft	Black/Yellow	**29NH27**
Speed Bumps with Asphalt Mounting Hardware, Rubber				
1 ⅛ in	24 in	9 ft	Black/Yellow	**29NH26**
2 in	36 in	10 ft	Black/Yellow	**29NH28**
Alley Bumps, Rubber				
3 in	12 in	4 ft	Black/Yellow	**49ZZ35**
3 in	12 in	6 ft	Black/Yellow	**49ZZ36**
Portable Speed Bump, Plastic				
1 ¾ in	8 ¾ in	10 ft	Yellow	**33K180**

H	W	L	Color	Item No.
Speed Humps, Rubber				
2 in	19 ¾ in	3 ft	Black/Yellow	**49ZZ29**
2 ⅒ in	19 ½ in	35 ½ in	Black/Yellow	**49ZZ38**
Cable Ramps, Aluminum				
1 ⅛ in	7 ⅛ in	3 ft	Silver	**1TFT9**
1 ⅛ in	7 ⅛ in	4 ft	Silver	**1F141**
1½ in	9 ⅛ in	36 in	Silver	**2GWL7**
1½ in	9 ⅛ in	48 in	Silver	**2GWL8**
1½ in	9 ⅛ in	72 in	Silver	**2GWL9**
Cable Ramp with 6 Anchor Spikes, 1 Tube Asphalt Adhesive, Polyurethane				
2 in	10 in	6 ft	Yellow	**2GTG6**
Cable Ramp with 8 Anchor Spikes, 1 Tube Asphalt Adhesive, Polyurethane				
2 in	10 in	9 ft	Yellow	**2GTG7**

Description	H	W	L	Item No.
Speed Bump Asphalt Installation Kits				
For Use with 2VDC1 and 5XPR5	6 in	7 in	13 in	**2VDC2**
For Use with 5XPR6	6 in	7 in	13 in	**4UP95**
For Use With 4UP94	6 in	7 in	13 in	**5ZW59**
Speed Bump Glue Down Kits				
For Use With 48 in L Speed Bumps w/3-Holes	4 in	5 in	9 in	**5XPR7**
For Use With 36 in L Speed Bumps w/4-Holes	4 in	5 in	9 in	**5XPR8**
For Use With 108 in L Speed Bumps w/5-Holes	4 in	5 in	9 in	**5XPR9**
Speed Bump End Cap				
For Use with 29NH40 and 29NH35	2¼ in	12 in	9 in	**29NH36**
Speed Bump Traffic Sign - Lyle Brand				
Legend: Caution Speed Bumps Ahead, Aluminum Material	18 in	12 in	—	**36A808**

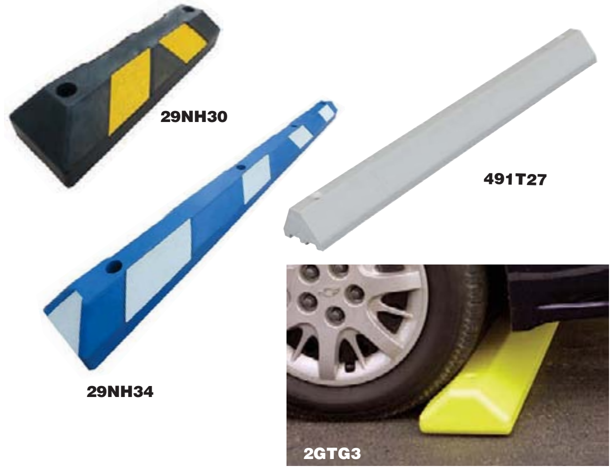
Rumble Strips

Surface-mounted transverse bars provide a tactile and audible warning to alert motorists of hazardous conditions ahead or to slow down. Mount to roads or other surfaces with Epoxy Adhesive, sold separately below. 8VRW9 coverage area: Part A and Part B adheres 6 rumble strips.



E9821

Description	Material	H	W	L	▶CHOOSE: Color	Item No.
Rumble Strips	Thermoplastic Alloy	½ in	4 in	6 ft	Red, Yellow	**E9821**
Epoxy Adhesive—Includes (1) qt. Each of Part A and B Components						**8VRW9**



Parking Curbs and Mounting Kits

- Rubber Parking Curbs are made from 100% recycled content
- Mounting kits sold separately

Curbs prevent vehicles from pulling through parking spots and keep cars a safe distance from each other in parking lots.

Description	H	W	L	Material	Color	Item No.
Parking Curbs						
Installs to Asphalt with Spikes	4 in	6 in	3 ft	Rubber	Black/Yellow	**490W86**
Installs to Concrete with Bolts	4 in	6 in	3 ft	Rubber	Black/Yellow	**490W87**
Installs to Asphalt, Concrete with Bolts, Spikes	4 in	6 in	1 ft 10 in	Rubber	Black/Yellow	**29NH30**
	4 in	6 in	4 ft	Rubber	Black/White	**29NH42**
	4 in	6 in	4 ft	Rubber	Black/Yellow	**29NH41**
	4 in	6 in	6 ft	Rubber	Blue/White	**29NH34**
	4 in	6 in	6 ft	Rubber	Black/White	**29NH32**
	4 in	6 in	6 ft	Rubber	Black/Yellow	**29NH31**
	4 in	6 in	6 ft	Rubber	Red/White	**29NH33**
Installs to Asphalt, Concrete with Bolts on Asphalt, Spikes on Concrete	4 in	6 in	4 ft	Rubber	Black/Yellow	**49ZZ24**
	4 in	6 in	4 ft	Rubber	Black/White	**49ZZ25**
Installs to Asphalt, Concrete with Bolts on Concrete, Spikes on Asphalt	4 in	6 in	6 ft	Rubber	Black/Yellow	**49ZZ26**
	4 in	6 in	6 ft	Rubber	Black/White	**49ZZ27**
	4 in	6 in	6 ft	Rubber	Blue/White	**49ZZ28**
Installs to Asphalt, Concrete with Spikes	4 in	6 in	6 ft	Polyethylene	White	**491T27**
Installs to Asphalt, Concrete with Asphalt Adhesive, Spikes	4 in	8 in	6 ft	Polyethylene	Black/Yellow	**8PHZ1**
	4 in	8 in	6 ft	HDPE	Blue	**2GTG5**
	4 in	8 in	6 ft	HDPE	Gray	**2GTG4**
	4 in	8 in	6 ft	HDPE	Yellow	**2GTG3**

Description	H	W	L	Material	Color	Item No.
Mounting Kits						
Asphalt						
For Parking Curbs and Speed Bumps w/2-Holes	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**2VDA7**
For 72 in L Parking Curbs	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**4UP84**
For Parking Curbs and Speed Bumps w/4-Holes or Less	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**2VDA9**
Concrete						
For Parking Curbs and Speed Bumps w/2-Holes	6⅜ in	¾ in	¾ in	Steel	Silver	**2VDA6**
For 72 in L Parking Curbs	6⅜ in	¾ in	¾'	Rubber, Steel	Silver	**4UP82**
For Parking Curbs and Speed Bumps w/4-Holes or Less	6⅜ in	¾ in	¾ in	Steel	Silver	**2VDA8**
Parking Curb Glue Down Kit						
For Use With 48 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR2**
For Use With 72 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR3**
For Use With 96 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR4**
Accessories						
Lag Bolts				Steel	Silver	**29NH37**
Lag Bolts Shields				Aluminum	Silver	**29NH38**
Rebar Spikes				Steel	Silver	**29NH39**

Trench Covers

PLASTICADE®

Covers protect trenches containing cable, wire, fluid, and other sensitive materials. They are load-rated to withstand traffic from cranes, forklifts, and other heavy machinery. The antislip surfaces and beveled edges help prevent slips, trips, and falls.

20PF72

L	W	Max. Trench Width	Item No.
63 in	47.2 in	35 in	**20PF70**
47.2 in	31.5 in	27 in	**20PF71**
44.3 in	44.3 in	27 ½ in	**20PF72**

5AB22

6YG07

Column and Corner Protectors

100% HDPE is resistant to chemicals, rust, stress, and cracks. For indoor and outdoor use. Safety yellow.

Column Protectors—Fit all types of columns. Key-lock minimizes slippage and assists with alignment during installation. Protectors install with two 2" black nylon belts with hook-and-loop fasteners (included) and are stackable. 5AB22 has a slim profile.

Corner Protectors—Install on overhead door frames, corners, vertical columns, or horizontally as machine or rack guards. Protectors install with bolts or nylon straps (not included). Sold in sets of two.

Fits Column Size	Overall Height	Item No.
Column Protectors		
4 in to 6 in	42 in	**5AB22**
6 in	42 in	**5PW11**
8 in	42 in	**5PW12**
10 in	24 in	**32NC66**
10 in	42 in	**5PW13**
12 in	24 in	**32NC68**
12 in	42 in	**5PW14**

Overall Height	Overall Depth	Overall Width	Inside Dimensions	Item No.
Corner Protectors				
10 in	10"	6 in	4 in x 8 in	**6YG07**
10 in	10"	6 in	4 in x 8 in	**6YG08**

F0485

E7132

Bollard Covers

Nonconductive, chemical-resistant polyethylene sleeves slide over bollard posts and can be trimmed for an exact fit. Reduce rusting, chipping, discoloration, and painting. Sleeve wall is approx. 3⁄16" thick.

For Post Size	Outside Dia.	Inside Dia.	Overall Height	▶CHOOSE: Color	Item No.
Ribbed					
4 in dia	5 ¾ in	4 ¾ in	56 in	Red, Yellow, Green, Orange, Lime Green, Brown, Black, Blue	**F0486**
6 in dia	7 ⅞ in	6 ⅞ in	56 in	Red, Yellow, Green, Orange, Lime Green, Black, Blue	**F0485**
8 in dia	10 in	8 ⅞ in	57 in	Red, Yellow, Green, Orange, Lime Green, Brown, Black, Blue	**F0487**
Smooth					
4 in dia	5 ¼ in	4 ¾ in	56 in	Red, Yellow	**E7131**
6 in dia	7 ⅜ in	6 ⅞ in	56 in	Red, Yellow	**E7132**
8 in dia	9 ⅜ in	8 ⅞ in	57 in	Red, Yellow	**E7133**

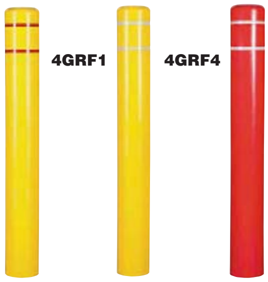
45XC48 4NEN3

Security Bollards

45XC48 features a removable plastic cap with chain slots. 4NEN3 can be mounted indoors or outdoors.

Overall Height	Outside Dia.	Mounting Plate Dimensions	Color	Item No.
24 in	4 ½ in	8 in x 8 in	Yellow	**45XC48**
42 in	1 11⁄16 in	6 in x 6 in	Silver	**5NPR6**
42 in	1 11⁄16 in	6 in x 6 in	Yellow	**5NPR7**
42 ⅛ in	4 in	8 in dia	Silver	**4NEN3**

4GRE7 4GRF1 4GRF4



Bollard Covers With Reflective Strips

HDPE is weather-, chemical-, and abrasion-resistant. Each comes with two foam strips and installation instructions.

Overall Height	Inside Dia.	Outside Dia.	Yellow with Red Tape Item No.	Yellow with White Tape Item No.	Red with White Tape Item No.
52 in	4 ¾ in	5 in	**4GRE5**	**4GRE8**	**4GRF2**
60 in	7 in	7 23⁄64 in	**4GRE6**	**4GRE9**	**4GRF3**
72 in	8 13⁄16 in	9 3⁄16 in	**4GRE7**	**4GRF1**	**4GRF4**

Premium Column Protectors

33RH93 33RJ03 33RJ09

COLUMN PROTECTORS

These protectors are heavy-duty with air vents and deep pockets that deflect impact energy away from columns. LLDPE is semiflexible and stress-crack resistant. Chemical-resistant, nonconductive, waterproof, easy to clean, and removable for maintenance. Easy to install. Straps included. Sizes to fit most columns.

CONCRETE WRAP COLUMN PROTECTORS

Easy-to-install polyurethane foam wrap adds a layer of protection around concrete columns, helping eliminate the constant chipping, painting, and maintenance to concrete columns. Semiflexible and crack-resistant.

COLLISION PROTECTION FOR PARKING STRUCTURE COLUMNS AND WALLS

Easy and attractive way to add a layer of effective of protection around parking structure columns and walls. Made of ARPRO®, a high-tech material specifically engineered to absorb impact. Provides soft, scratch-resistant protection to protect vehicles and columns from collision damage. These modular designs are easily customizable for any size column or wall space.

Fits Column Size	Fits Column Shape	Overall Height	Overall Width	Includes	YELLOW Item No.	BLACK Item No.
Column Protectors						
4" to 8"	Rectangle, Round, Square	42"	16"	(2) Straps	**448T02**	—
6"	Round or Square	42"	24"	(2) Black Nylon Straps	**33RH92**	—
8"	Square	42"	24"	(2) Straps	**448R94**	—
8"	Round or Square	42"	24"	(2) Black Nylon Straps, Cutout for Fire Ext.	**33RH93**	—
8" to 12"	Rectangle, Round, Square	42"	20"	(2) Straps	**448T01**	—
9"	Round	42"	24"	(2) Black Nylon Straps	**33RH94**	—
10"	Square	42"	24"	(2) Straps	**448R95**	—
12"	Square	42"	24"	(2) Straps	**448R96**	—
12"	Square	42"	24"	(2) Straps, Cutout for Fire Extinguisher	**448R97**	—
12" x 24"	Rectangle	42"	38"	(2) Straps	**448R98**	—
14"	Round or Square	42"	33"	(2) Black Nylon Straps	**33RH96**	—
16"	Round or Square	42"	33"	(2) Black Nylon Straps	**33RH97**	—
18"	Round or Square	42"	38"	(2) Black Nylon Straps	**33RH98**	—
20"	Round or Square	42"	38"	(2) Black Nylon Straps	**33RH99**	—
30"	Round	42"	44"	(2) Straps	**448R99**	—
Concrete Wrap Column Protectors						
24"	Round	42"	44"	(2) Black Nylon Straps and (2) Panels	**33RJ03**	—
24"	Round	48"	44"	(2) Black Nylon Straps and (2) Panels	**33RJ04**	—
Collision Protection						
24"	Square	39¼"	2¼"	(4) Corners/Carton and Interlocking Keys	—	**33RJ07**
24"	Square	39¼"	17¼"	(4) Planks/Carton and (8) Interlocking Keys	**33RJ06**	—
24"	Square	39¼"	17¼"	(4) Planks/Carton and Interlocking Keys	—	**33RJ08**
24"	Square	39¼"	17¼"	(4) Corners (2) Straps, (4) Planks	**33RJ09**	—
24"	Round	39¼"	27½"	(3) Planks Per Carton	**33RJ11**	**33RJ12**
—	—	1 37⁄64"	27 39⁄64"	(12) Panels, (12) Wall Clips	**448T03**	**448T04**
Collision Protection - Wall Clips						
55½"	Rectangle	1½"	1½"	(12) Clips Per Carton	—	**33RJ13**

L	W	Color	Item No.	Pkg. Qty.
Parking Column Protector Straps				
100"	2"	Yellow	**33RJ14**	2
100"	2"	Black	**33RJ18**	2
158"	2"	Black	**33RJ20**	2

Machine Guard

Safety Bollard

Machine Guards and Safety Bollards

All-welded construction. Mounting plate is 8" x 8" and predrilled with four ⅞"-dia. x 1¼" slotted holes. Steel has yellow powder-coat finish. Order Installation Kit 1F138 or 1F139 separately. 1GUD7 and 1GUD8 have 10" x 10" mounting plate and come with removable caps that can be concrete filled.

Overall Height	Overall Length	Pipe Dia.	Item No.	
Machine Guards - Low Profile				
9 in	3 ft	4 ½ in	1GUD9	
9 in	4 ft	4 ½ in	3KR78	
16 in	3 ft	4 ½ in	1GUE1	
16 in	4 ft	4 ½ in	1GUE2	
Machine Guards - High Profile				
24 in	3 ft	4 ½ in	1GUE3	
24 in	4 ft	4 ½ in	1GUE4	
36 in	3 ft	4 ½ in	1GUE5	
36 in	3 ft	4 ½ in	2WJJ3	*
36 in	4 ft	4 ½ in	1GUE6	
36 in	4 ft	4 ½ in	2WJJ4	*
42 in	4 ft	4 ½ in	3KR70	
42 in	4 ft	4 ½ in	2WJJ5	*
Corner Guards				
24 in	2 ft	4 ½ in	2WJH8	
24 in	2 ft 6 in	4 ½ in	2WJH9	
36 in	2 ft	4 ½ in	2WJJ1	
36 in	2 ft 6 in	4 ½ in	2WJJ2	
Bollards				
24 in	—	4 ½ in	1GUD5	
36 in	—	4 ½ in	3KR45	
36 in	—	5 ½ in	1GUD7	
42 in	—	4 ½ in	1GUD6	
42 in	—	5 ½ in	1GUD8	

** Includes Mid-Rail.*

2HER9

2HEK7

Safety Handrail System

- Yellow powder-coat finish

Round steel pipe system is 1⅝"D x 42"H, with 21" midrail. Installs and removes easily. Square system has ⅜" slotted holes on 4" x 4" mounting plate. Use connector pieces to make 90° turns or length adjustments.

Description	Overall Length	Overall Height	Item No.
Round			
Handrail Section - Steel Pipe Construction	48 in	42 in	2HER9
	72 in	42 in	2HET1
	96 in	42 in	2HET2
Handrail Section - Aluminum Pipe Construction	24 in	42 in	5NPN2
	36 in	42 in	5NPN3
	48 in	42 in	5NPN4
	60 in	42 in	5NPN5
	72 in	42 in	5NPN6
	84 in	42 in	5NPN7
	96 in	42 in	5NPN8
Single Socket Mounting Base	5"	4 in	2HER7
Double Socket Mounting Base	7½"	4 in	2HER8
Mounting Kit with Pkg. of 4, (4) ⅜ in OD x 3 in L Concrete Lag Bolts	3"	⅜ in	2HET3
Square			
Handrail Section	48 in	42 ⅛ in	2HEK7
	96 in	42 ⅛ in	2HEK8
Handrail Section w/ Toe Board	48 in	42 ⅛ in	2HEK9
	96 in	42 ⅛ in	2HEN1
Connecting Rail	96 in	—	2HEN3
Corner Connector	8 ⅝ in	—	2HEN4

33K166

19N881

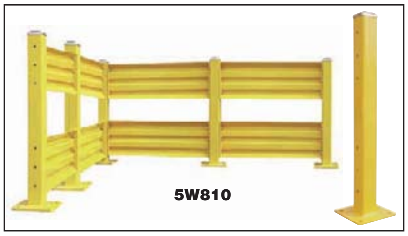
Plastic Barriers

33K166 links with other barriers for longer spans. Two of the wheels are lockable. 19N881 and 19N882 interconnect with each other.

Description	Overall Height	Overall Length	W	Color	Item No.
Barricades					
Expandable Barricade	37 in	132 in	Portable Barricade with 4 wheels	Black/Yellow	33K166
Barrier Guards					
Plastic	39.75 in	77.5 in	23¼"	Yellow	19N881
Plastic	40 in	77 in	23¼"	Red	19N882

5JEU5

5W809



5W810

Ribbed Guard Rails

Combine as a modular system that can be installed, removed, or expanded. ⅛"-thick (11-ga.) galvanized steel for outdoor use. Industrial yellow powder-coat finish for indoor use only.

Bolt-On Guard Rails—Easy to assemble and install. Impact-resistant, 2- and 3-ribbed corrugated design have no sharp edges or corners. Galvanized construction resists corrosion.

Lift-Out Rails—Provide a strong barrier with easy accessibility. They have the same construction and profile as bolt-on rails, yet slide into post saddles for simple assembly. Each rail section includes two post saddles.

Posts—Two post heights come in both in-line and corner configurations for single-row (high) and double-row (high) installation. Posts are made of round-corner, 4" square steel tube with ¼"-thick walls, and are welded to a 10" square, round-corner ⅝"-thick steel base plate. Include hardware, bolts, anchors, washers, and nuts.

Description	Overall Height	SAFETY YELLOW Item No.	SILVER Item No.
Bolt-On Guard Rails			
2-Ribbed			
1 ft	10 ½ in	5JEU5 *	—
2 ft	10 ½ in	5JEU6 *	—
3 ft	10 ½ in	5JEU7 *	—
4 ft	10 ½ in	5JEU8 *	—
5 ft	10 ½ in	5JEU9 *	—
69 in	10 ½ in	5JEV0 *	—
7 ft	10 ½ in	5JEV1 *	—
8 ft	10 ½ in	5JEV2 *	—
9 ft	10 ½ in	5JEV3 *	—
10 ft	10 ½ in	5JEV4 *	—
3-Ribbed			
8 in	14 ½ in	5JEU1 *	5JEV5
1 ft 8 in	14 ½ in	5AE57 *	5JEV6
2 ft 8 in	14 ½ in	5AE58 *	5JEV7
3 ft 8 in	14 ½ in	—	5JEV8
44 in	14 ½ in	5W804 *	—
4 ft 8 in	14 ½ in	—	5JEV9
56 in	14 ½ in	5AE59 *	—
5 ft 8 in	14 ½ in	5W805 *	—
6 ft 8 in	14 ½ in	5AE60 *	5JEX1
7 ft 8 in	14 ½ in	5W806 *	5JEX2
8 ft 8 in	14 ½ in	5JEU2 *	—
9 ft 8 in	14 ½ in	5W807 *	5JEX4

** Rail length is 4" shorter than the nominal size. † Rail length is 6" shorter than the nominal size.*

Description	Overall Height	SAFETY YELLOW Item No.	SILVER Item No.
Lift-Out Rails			
3-Ribbed			
6 in	14 ½ in	5JEU3 †	—
1 ft 6 in	14 ½ in	5AE30 †	—
2 ft 6 in	14 ½ in	5AE31 †	—
3 ft 6 in	14 ½ in	4WZ74 †	—
4 ft 6 in	14 ½ in	5AE32 †	—
5 ft 6 in	14 ½ in	4WZ75 †	—
6 ft 6 in	14 ½ in	5AE56 †	—
7 ft 6 in	14 ½ in	4WZ76 †	—
8 ft 6 in	14 ½ in	5JEU4 †	—
9 ft 6 in	14 ½ in	4WZ77 †	—
Posts			
2-Ribbed			
Single High Universal Center	12⅝"	5JEX9	—
Triple High Universal Center	42½"	5JEY0	—
3-Ribbed			
Single High Corner	18½"	5W808	5JEX5
Single High Center	18½"	5W809	5JEX6
Double High Corner	42⅝"	5W810	5JEX7
Double High Center	42⅝"	5W811	5JEX8
Lift-Out Rail Pocket			
For 2-Ribbed Posts	10 ½ in	5JEY1	—

12G309

31DW07

Crowd Control Interlocking Barriers

All-welded steel construction with gray or yellow powder-coat finish. Multiple units can be attached together with welded-on rod hook and sleeves. Upright bars are vertically spaced at 5¼" intervals.

Pipe Dia.	Overall Length	Overall Height	Includes	Color	Item No.
Frame 1½ in, Vertical Bars ½ in	101 in	42.25 in	Linking Hooks and Eyes	Silver	12G309
	125 in	42.25 in	Linking Hooks and Eyes	Silver	12G310
Frame 1¼ in, Vertical Bars ⅝ in	102 in	40.5 in	(2) Curved Removable Feet	Yellow	31DW07
	102 in	40.5 in	(2) Flat Removable Feet	Yellow	31DW09
	102 in	40.5 in	(2) Wheels Removable Feet	Yellow	31DW08
Frame 1⅝ in, Verticals ¾ in	102 in	40.5 in	(2) Curved Removable Feet	Yellow	31DW06

1MCU1

45VY63

5WRP0

L	W	H	Static Load Capacity	Dynamic Load Capacity	Rackable Cap.	Color	Brand	Item No.
2-Way Stackable Pallets								
Aluminum								
48 in	42 ¼ in	6 in	6,000 lb	1,500 lb	—	Silver	—	**1MCU1**
48 in	48 ¼ in	6 in	6,000 lb	1,500 lb	—	Silver	—	**1MCU2**
Recycled PVC								
24 in	24 in	4 in	1,000 lb	500 lb	250 lb	Gray/Black	—	**24PK34**
30 in	30 in	4 in	1,000 lb	500 lb	—	Gray/Black	—	**45AM62**
36 in	32 in	4 ½ in	3,000 lb	1,500 lb	500 lb	Gray/Black	—	**33W748**
36 in	36 in	5 in	3,000 lb	1,500 lb	500 lb	Gray/Black	—	**33W749**
48 in	40 in	9 in	1,500 lb	1,500 lb	750 lb	Gray/Black	—	**24PK33** *
60 in	42 in	4 ½ in	3,000 lb	1,500 lb	750 lb	Gray/Black	—	**33W752**
96 in	48 in	5 in	6,000 lb	3,000 lb	1,500 lb	Gray/Black	—	**33W753**
4-Way Nestable Pallets								
ACM								
43 in	43 in	5 ½ in	8,800 lb	2,500 lb	—	Black	—	**19UA99**
Polyethylene								
48 in	48 in	6 ¼ in	20,000 lb	4,000 lb	1,200 lb	Gray	—	**19UC19**
Recycled High Density Polyethylene								
48 in	40 in	5 ⅛ in	3,500 lb	1,500 lb	—	Black	—	**49K078**
48 in	40 in	5 ¾ in	15,000 lb	2,750 lb	—	Black	Orbis	**45VY63**
48 in	40 in	6 in	7,000 lb	1,200 lb	—	Black	—	**2PE64**
48 in	48 in	5 ⅞ in	30,000 lb	4,000 lb	—	Black	—	**3VAU1**
Recycled Pressed Wood								
40 ¼ in	48 ¼ in	5 ⅝ in	2,000 lb	2,000 lb	2,000 lb	Brown	—	**5WRP0**
4-Way Rackable Pallets								
ACM								
48 in	32 in	5 ⅞ in	8,800 lb	2,200 lb	1,200 lb	Black	—	**19UA96**
High Density Polyethylene								
48 in	40 in	5 ⅝ in	30,000 lb	5,000 lb	2,800 lb	Black	—	**20HK76**
48 in	40 in	6 ¼ in	30,000 lb	5,000 lb	2,200 lb	Black	—	**418C83**
48 in	40 in	6 ¼ in	30,000 lb	5,000 lb	2,200 lb	Blue	—	**418C84**
48 in	40 in	6 ¾ in	30,000 lb	5,000 lb	2,200 lb	Black	—	**418C85**
48 in	40 in	6 ¾ in	30,000 lb	5,000 lb	2,200 lb	Blue	—	**418C86**
Polyethylene								
48 in	40 in	5 ⅞ in	30,000 lb	5,000 lb	1,200 lb	Black	—	**19UC13**
48 in	40 in	6 ⅛ in	25,000 lb	5,000 lb	1,200 lb	Blue	—	**19UC17**
Polypropylene								
48 in	40 in	6 ¼ in	30,000 lb	5,000 lb	2,600 lb	Black	—	**20HK77**
4-Way Stackable Pallets								
ACM								
48 in	40 in	5 ⅞ in	7,500 lb	3,000 lb	2,000 lb	Black	—	**19UA98**
High Density Polyethylene								
47 ¼ in	47 ¼ in	6 in	6,600 lb	2,200 lb	2,200 lb	Gray	—	**1MCT3**
48 ⅞ in	48 ¾ in	5 ½ in	30,000 lb	4,000 lb	—	Black	—	**3VAT5**
Recycled High Density Polyethylene								
24 in	24 in	5 ½ in	8,000 lb	1,000 lb	—	Black	—	**38TA10**
48 ¾ in	45 ¾ in	7 ½ in	30,000 lb	4,000 lb	—	Black	—	**20HK80**
48 ⅞ in	45 ⅞ in	6 in	30,000 lb	4,000 lb	—	Black	—	**20HK81**
48 in	40 in	5 ⅝ in	6,500 lb	2,300 lb	—	Black	—	**49K079**
48 in	40 in	5 ⅞ in	30,000 lb	4,000 lb	—	Black	—	**48KR13**
48 in	40 in	5 ⅛ in	30,000 lb	4,000 lb	—	Black	—	**20HK79**
48 in	24 in	5 ½ in	15,000 lb	2,000 lb	—	Black	—	**38TA11**
Recycled PVC								
48 in	40 in	4 ½ in	3,000 lb	1,500 lb	750 lb	Gray/Black	—	**33W750**
48 in	48 in	5 in	4,000 lb	2,000 lb	1,000 lb	Gray/Black	—	**33W751**
96 in	48 in	5 in	6,000 lb	3,000 lb	1,500 lb	Gray/Black	—	**24PK32**
Partial 4-Way Rackable Pallets								
High Density Polyethylene								
48 in	40 in	6 in	30,000 lb	6,000 lb	3,000 lb	Black	—	**3AZG6**

**Includes 4 casters*

49K079

3AZG6

Powered by Menasha Corporation

Pallets

Aluminum Pallets—Feature three strings across the bottom for increased strength.

Plastic Pallets—Provide two-way entry by pallet truck and four-way entry by fork truck. Maintenance-free and moisture-resistant, will not rot or splinter.

Recycled Pressed Wood Pallets—Nestable design allows stacking. Does not contain any nails or staples. Manufactured from recycled wood materials.

Stackable—Provide high load capacities for handling and shipping heavy products. Stackable for efficient storage.

Nestable—Lightweight and durable for easy handling. Nestable when empty to reduce space and freight cost.

Rackable—Allow products to be stored in a variety of supported or edge rack systems.

Adaptable Pallet

FAST LOCK PALLET

Save floor space by creating custom pallets from 12" to 8-ft. long using interlocking units. EZ Band notch on end of each unit provides a way to cross-band product to the assembled pallet at every 12". Lightweight pallets are ideal for closed loop or returnable system, in-house movement, and shipping of varying-sized items. Units allow for easy storage of supplies that need to be kept off the ground.

Pallet Entry	Dynamic Load Capacity	Static Load Capacity	Rackable Cap.	L	W	H	Item No.
4-Way	625 lb	625 lb	Not Rackable	12 in	40 in	6 in	**38G104**

MAGLINER®

Aluminum Tilting Pallet Dollies

Open-deck aluminum dollies are lighter and more corrosion-resistant than steel. Dollies are compatible with all pallet systems. 4½" overall height.

Aluminum Dolly 59UZ26

For Min. Pallet LxW	6 ROLLER 3,600 lb Load Cap. Item No.	8 ROLLER 5,400 lb Load Cap. Item No.	10 ROLLER 7,200 lb Load Cap. Item No.
36 in x 36 in	**59UZ21**	**59UZ22**	—
42 in x 36 in	**59UZ23**	**1AA20**	—
42 in x 42 in	**59UZ25**	**1AA23**	—
48 in x 36 in	**59UZ24**	**1AA21**	**1AA28**
48 in x 42 in	**59UZ26**	—	—
48 in x 48 in	**59UZ27**	**59UZ28**	**59UZ29**

Open Head Pails

Use for easy transport and storage of liquids and solids. Compatible lids can be ordered separately.

Plastic pails are lightweight and resist corrosion, impact, and damage from ultraviolet (UV).

Stainless steel pails withstand high temperatures and resist corrosion, rust, and scratches. Ideal for applications where moisture or bacteria growth is a concern, such as food processing, industrial manufacturing, and outdoor environments.

Steel pails withstand extreme temperatures and heavy loads. Suitable for hot/cold liquids, semi-solids, and solids. Commonly used for shipping or storage of non-food items.

Round Plastic Pail K4866

Round Tapered Stainless Steel Pail 3CYL2

Round Steel Pail 1TMH6

Volume Cap.	▶CHOOSE: Color	Overall Dia./ Width	▶CHOOSE: Handle Material	Pail Standards	UN Standards	PAIL Item No.	SUGGESTED LID Item No.
Plastic Pails							
Round							
1 gal	White	8 ¼ in	Plastic	FDA Compliant	—	**49EN46**	**406F13**
1.2 gal	White	8 in	Plastic	—	—	**6KDY9**	**6KDY6**
2 gal	White	9 ⅜ in	Metal, Plastic	FDA Compliant	—	**K4868**	**49EN53**
2.5 gal	White	10 in	—	FDA Compliant	—	**6KDZ0**	**6KDY7**
3.5 gal	White	12 in	Plastic	—	—	**6KDZ1**	**6KDY8**
	White	12 ⅜ in	Metal, Plastic	FDA Compliant	—	**K4867**	**K4870**
5 gal	White	12 in	Plastic	—	—	**6KDZ2**	**6KDY8**
	White	12 ⅜ in	Plastic	FDA Compliant	—	**49EN36**	**49EN40**
	Black	12 ⅜ in	Metal	UN Rated for Liquids	1H2/Y1.5/50	**49EN34**	—
	Blue, Green	12 ⅜ in	Plastic, Metal	UN Rated for Liquids	1H2/Y1.5/30	**K4864**	**K4870**
	Yellow	12 ⅜ in	Metal	UN Rated for Liquids	1H2/Y1.5/50	**49EN70**	**49EN71**
	White	12 ⅜ in	Metal, Plastic	FDA Compliant, UN Rated for Liquids	1H2/Y1.5/30	**K4866**	**49EN40**
	White, Blue, Red	12 ⅜ in	Metal	FDA Compliant, UN Rated for Liquids	1H2/Y1.5/50	**K2600**	**K4870**
6 gal	White	12 in	Plastic	—	—	**6KDZ3**	**6KDY8**
	White	12 ⅜ in	Metal	FDA Compliant, UN Rated for Solids	1H2/Y27/S	**49EN27**	**K4870**
10.7 gal	White	14 ½ in	Plastic	FDA Compliant	—	**42X641**	**6KDZ6**
12.2 gal	White	15 ½ in	—	—	—	**6KDZ5**	**6KDZ7**
Square							
4 gal	Red, Blue	10 ¼ in	Metal	BPA Free, FDA Compliant	—	**K4865**	**K4871**
Stainless Steel Pails							
Round Tapered							
3.3 gal	Silver	12 ¾ in	Stainless Steel	—	—	**3CYL2**	—
5 gal	Silver	15 ⅜ in	Stainless Steel	—	—	**3CYL3**	—
Steel Pails							
Round							
5 gal	Black	11 ¾ in	Steel	UN Rated for Liquids	1A2/Y1.5/70	**1TMH7**	**1TMJ1**
	Black	11 ⅞ in	Steel	UN Rated for Liquids	1A2/Y1.5/70	**1TMH6**	**1TMJ1**
Round Tapered							
3.3 gal	Silver	12 ¾ in	Steel	—	—	**3CYK9**	—
5 gal	Silver	14 ¼ in	Steel	—	—	**3CYL1**	—

Open Head Pails with Lids

Pails come with a compatible lid to keep contents secure and uncontaminated during transport and storage.

Screw-on lids have threads that connect with the pail's rim threading to tightly secure lid.

Snap-on lids squeeze around the pail's rim to make an airtight seal.

Lug covers have tabs around the edge of the rim that push into pails to seal a barrier between the rim and lid. Prevent spills, exposure, and tampering.

Lever lock covers have a horizontal lever attached to the rim that tightens to create a firm seal between the lid and pail.

Square Plastic Pail 49EN39

Round Steel Pail 21YL08

Volume Cap.	Color	Overall Dia./Width	Handle Material	Pail Standards	UN Standards	Lid Type	Item No.
Plastic Pails							
Round							
3.5 gal	White	11 ¼ in	Plastic	FDA Compliant	—	Screw-On	**49EN28**
5 gal	White	11 ¼ in	Plastic	FDA Compliant, UN Rated for Solids	1H2/X11.5/S	Screw-On	**49EN59**
6.5 gal	White	11 ¼ in	Plastic	FDA Compliant	—	Screw-On	**49EN30**
7 gal	White	12 in	Steel	FDA Compliant	—	Snap-On	**21YL17**
Square							
4 gal	White	9 ½ in	Metal	FDA Compliant	—	Snap-On	**49EN39**
Steel Pails							
Round							
5 gal	Gray	11 ¼ in	Steel	UN Rated for Solids	1A2/Y50/S	Lug Covers	**21YL08**
	Gray	11 ¼ in	Steel	UN Rated for Liquids	1A2/Y1.8/100	Lever Lock Covers	**21YL09**
	Black	11 ¼ in	Steel	UN Rated for Liquids	1A2/Y1.8/100	Lug Covers	**21YL15**

Closed Head Pails for Liquids

Allow dispensing of liquids through an opening on the top. Tight-fitting lid allows them to hold contents securely, making them a preferred choice for air and overseas shipping of hazardous substances.

Plastic pails are lightweight and corrosion resistant.

Steel pails can withstand extreme temperatures and heavy loads. Suitable for hot/cold liquids, semi-solids, and oils.

Plastic 33UF75

Steel 21YL12

Volume Cap.	Color	Overall Dia.	Overall Height	Handle Material	Pail Standards	UN Standards	Item No.
Plastic Pails							
5 gal	White	11 ⅝ in	14 ⅞ in	Plastic	UN Rated for Liquids	1H1/Y1.8/100	**33UF74**
	Blue	11 ⅝ in	14 ⅞ in	Plastic	—	—	**33UF75**
	White	11 ⅝ in	14 ⅞ in	Plastic	—	—	**33UF76**
	White	11 ⅝ in	14 ⅞ in	Plastic	UN Rated for Liquids	1H1/Y1.8/100	**49EN29**
6 gal	White	11 ½ in	17 ⅝ in	Plastic	FDA Compliant	—	**21YK31**
Steel Pails							
1 gal	Gray	6 ⅜ in	8 ½ in	Steel	UN Rated for Liquids	1A1/X1.5/250	**21YL12**

Plastic Pail & Liner Kit

- FDA compliant

Use to mix and store liquids, semi-solids, and solid materials. Liner helps keep pail clean and protects it from damage due to contents.

Volume Cap.	Color	Handle Material	Item No.
5 gal	White	Steel	**42NY71**

21YK53

Intermediate Bulk Containers (IBC)

- 6" top fill opening
- 2" butterfly valve drain with EDPM gasket
- High density polyethylene tank
- FDA approved; UN rated
- Accessories available on Grainger.com

Transport and store hazardous and nonhazardous liquids or granular substances in the same container. Galvanized steel cage and pallet base allow containers to be picked up by forklifts and pallet jacks. Commonly used for food ingredients, chemicals, pharmaceuticals, petroleum products, agricultural products, and bio-waste materials.

Liquid Storage Capacity	Outside Dim. W	D	H	Item No.
275 gal	39 ¼ in	47 ¼ in	45 ½ in	**21YK53**
330 gal	39 ½ in	47 ¼ in	53 ¾ in	**21YK54**

Round Tank
2ZRG1

Rectangular Tank
2ZRG8

SNYDER INDUSTRIES, INC.

Horizontal Liquid Storage Tanks

- High density polyethylene construction
- UV resistant
- Wall thickness: ¼"
- Max. liquid temp.: 130°F

Freestanding bulk tanks can be used to store liquids for extended periods of time. Feature gallon and liter graduations. Tanks with fitting have bulkhead fitting to allow for piping connections. FDA and NSF compliant.

Tank (gal.)	Overall Height	Overall Dia.	Fill Opening Diameter	Graduation Mark Increments	CLOSED TOP No Fitting Item No.	CLOSED TOP w/Fitting Item No.
Round						
30 gal	26 in	23 in	6 in	5 gal	**2ZRF5**	**2ZRF6**
60 gal	26 in	22 ⅞ in	6 in	5 gal	**2ZRF7**	**2ZRF8**
125 gal	35 in	30 ¼ in	10 in	5 gal	**2ZRF9**	**2ZRG1**
230 gal	43 in	38 in	10 in	10 gal	**2ZRG2**	**2ZRG3**
300 gal	43 in	38 in	10 in	20 gal	**2ZRG4**	**2ZRG5**
525 gal	53 in	47 ½ in	10 in	25 gal	**2ZRG6**	**2ZRG7**
Rectangle						
15 gal	14 in	14 in	6 in	2 gal	**2ZRF3**	—
25 gal	16 in	18 in	6 in	1 gal	**2ZRF4**	—
30 gal	22 in	19 in	6 in	5 gal	**2ZRG8**	—
50 gal	22 in	20 in	6 in	10 gal	**2ZRG9**	—
100 gal	31 in	30 in	10 in	10 gal	**2ZRH1**	—
150 gal	29 in	36 in	10 in	20 gal	**2ZRH2**	—
200 gal	39 in	37 in	10 in	20 gal	**2ZRH3**	—
325 gal	37 in	38 in	18 in	40 gal	**2ZRH4**	—

2ZRA5

2ZRF1

SNYDER INDUSTRIES, INC.

Vertical Liquid Storage Tanks and Stands

- High density polyethylene construction
- UV resistant
- Wall thickness: $\frac{3}{16}$"
- Max. liquid temp.: 130°F

FDA and NSF compliant.

Tanks—Designed for storing, mixing, and transferring compatible liquids in industrial and manufacturing applications. Feature gallon and liter graduations. Open top tanks come with removable cover. Tanks with fitting have bulkhead fitting to allow for piping connections.

Stands—Use with compatible size vertical tanks.

Tank (gal.)	Overall Dia.	Graduation Mark Increments	CLOSED TOP No Fitting Item No.	No Fitting Overall Height	w/Fitting Item No.	w/Fitting Overall Height	Fill Opening Diameter	OPEN TOP No Fitting Item No.	Overall Height
30 gal	22 in	5 gal		—		—	—	**2ZRD5**	31 in
35 gal	22 in	5 gal	**2ZPZ8**	36 in	**2ZPZ9**	36 in	6 in		—
55 gal	26 in	10 gal		—		—	—	**2ZRD6**	37 in
60 gal	26 in	10 gal	**2ZRA1**	40 in	**2ZRA2**	40 in	14 in		—
90 gal	34 in	10 gal	**2ZRA3**	41 in	**2ZRA4**	41 in	14 in	**2ZRD7**	36 in
120 gal	34 in	10 gal	**2ZRA5**	51 in	**2ZRA6**	51 in	14 in	**2ZRD8**	47 in
150 gal	34 in	10 gal	**2ZRA7**	61 in	**2ZRA8**	61 in	14 in	**2ZRD9**	57 in
200 gal	40 in	25 gal	**2ZRA9**	57 in	**2ZRC1**	57 in	14 in	**2ZRE1**	53 in
250 gal	40 in	25 gal	**2ZRC2**	69 in	**2ZRC3**	69 in	14 in	**2ZRE2**	65 in
275 gal	47 in	25 gal	**2ZRC4**	59 in	**2ZRC5**	59 in	18 in	**2ZRE3**	53 in
330 gal	47 in	25 gal	**2ZRC6**	68 in	**2ZRC7**	68 in	18 in	**2ZRE4**	63 in
360 gal	53 in	25 gal	**2ZRC8**	59 in	**2ZRC9**	59 in	18 in	**2ZRE5**	53 in
440 gal	53 in	25 gal	**2ZRD1**	69 in	**2ZRD2**	69 in	18 in	**2ZRE6**	64 in
500 gal	53 in	25 gal	**2ZRD3**	77 in	**2ZRD4**	77 in	18 in	**2ZRE7**	72 in

For Use With	Overall Height	Overall Width	Item No.
Tank Stands			
90, 120 and 150 gal Tanks	40 in	31 in	**2ZRE8**
200 and 250 gal Tanks	41 in	36 in	**2ZRE9**
275 and 330 gal Tanks	42 in	48 in	**2ZRF1**
360, 440, and 500 gal Tanks	43 in	53 in	**2ZRF2**

PEABODY engineering

406T81

Dual Containment Liquid Storage Tanks

- Low density polyethylene construction
- UV resistant
- Max. liquid temp.: 140°F

Double wall tanks have a primary tank to hold liquids and a secondary outer barrier that surrounds the primary tank for added protection against leaks or environmental conditions. NSF compliant.

Tank (gal.)	Overall Dimensions	Fill Opening Diameter	CLOSED TOP Item No.
Round			
15 gal	28 ¾ in H x 19 ½ in Dia.	8 in	**406T78**
20 gal	26 ¾ in H x 22 in Dia.	8 in	**406T79**
40 gal	42 ½ in H x 22 in Dia.	8 in	**406T80**
65 gal	47 in H x 27 in Dia.	8 in	**406T81**
90 gal	41 ¼ in H x 34 in Dia.	8 in	**406T82**
120 gal	47 in H x 33 in Dia.	8 in	**406T83**
160 gal	68 in H x 34 in Dia.	8 in	**406T84**
220 gal	48 in H x 48 in Dia.	16 in	**406T85**
320 gal	60 ½ in H x 48 in Dia.	16 in	**406T86**
500 gal	66 ½ in H x 61 in Dia.	16 in	**406T87**
Square			
5 gal	13 ½ in H x 14 in W x 14 in L	4 in	**406T88**
10 gal	22 in H x 14 in W x 14 in L	4 in	**406T89**
20 gal	24 in H x 18 in W x 18 in L	8 in	**406T90**
40 gal	37 ¼ in H x 20 in W x 20 in L	8 in	**406T91**
70 gal	41 in H x 24 in W x 24 in L	8 in	**406T92**
120 gal	48 in H x 30 in W x 30 in L	8 in	**406T93**

21YK41

5ERJ3

Carbon Steel Transport Drums

Lined drums feature a modified phenolic coating that resists corrosion and chemical reactivity. Unlined drums are treated with a mild rust inhibitor.

Open-Head—Removable covers are EPDM-gasketed with either a UN-qualified lever lock or bolt. No tools, torque, or ring gap measurements are required for lever lock ring.

Closed-Head—Drum lids are permanently secured and include 2" and 3/4" steel plugs and flanges with Buna gaskets.

Salvage/Overpack—Use open drums for transporting leaking or damaged containers. Covers are EPDM-gasketed and secured with lever lock ring closures or bolt. Yellow drums with red cover feature "Salvage Drum" logo.

Volume Capacity	Gauge	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Drum Color	Item No.
Open Head							
Bolt Ring Closure							
5 gal	20	1A2/X60/S	1A2/Y1.8/150	10 ⅜ in	14 in	Black w/White Cover	**19K299**
10 gal	20	1A2/X120/S	1A2/Y1.8/150	19 in	14 in	Black w/White Cover	**4GY27**
16 gal	20	1A2/X200/S	1A2/Y1.5/150	27 ⅛ in	14 in	Black w/White Cover	**1HBG8**
20 gal	18	1A2/X220/S	1A2/Y1.5/150	21 ¾ in	18.25 in	Black w/White Cover	**1HBG9**
30 gal	20	1A2/X235/S	1A2/Y1.5/150	29 in	18.25 in	Black w/White Cover	**5ERH3**
	18	1A2/X235/S	1A2/Y1.5/150	29 in	18.25 in	Black w/White Cover	**4GY28**
55 gal	18/20/20	1A2/Y425/S	1A2/Y1.2/100	34 ½ in	22.5 in	Black w/White Cover	**5ERH2**
	16	1A2/X430/S	1A2/Y1.5/175	34 ½ in	22.5 in	Black w/White Cover	**1HBH2**
	18	1A2/X435/S	1A2/Y1.5/150	34 ½ in	22.5 in	Black w/White Cover	**4GY29**
	18/18/18	1A2/X400/S	1A2/Y1.8/200	34 ½ in	22.5 in	Black	**9KYY6**
	18/18/20	1A2/X400/S	1A2/Y1.8/200	34 ½ in	22.5 in	Blue	**23Y332**
	18/18/20	1A2/X400/S	1A2/Y1.8/200	34 ½ in	22.5 in	Gray	**23Y345**
	16/18/18	1A2/X400/S	1A2/Y1.8/200	35 in	23.5 in	Black w/White Cover	**484X61**
	18/18/19	1A2/X400/S	1A2/Y1.8/200	35 in	23.5 in	Black w/White Cover	**484X62**
	18/18/20	—	1A2/Y1.6/200	35 in	23.5 in	Black w/White Cover	**484X63**
Bolt Ring Closure, Lined							
10 gal	20	1A2/X120/S	1A2/Y1.8/150	19 in	14 in	Black w/White Cover	**1MKZ5**
30 gal	18	1A2/X235/S	1A2/Y1.5/150	29 in	18.25 in	Black w/White Cover	**1MKZ9**
Bolt Ring Closure, Lined with 2 x ¾" Fittings in the Cover							
55 gal	18	1A2/X435/S	1A2/Y1.5/150	34 ½ in	22.5 in	Black w/White Cover	**2GTW7**
Bolt Ring Closure with 2 x ¾" Fittings in the Cover							
30 gal	18	1A2/X235/S	1A2/Y1.5/150	29 in	18.25 in	Black w/White Cover	**2GTW9**
55 gal	18	1A2/X435/S	1A2/Y1.5/150	34 ½ in	22.5 in	Black w/White Cover	**2GTW5**
Lever Lock Ring Closure							
16 gal	18/20/20	1A2/Y200/S	—	27 in	27 in	Black w/White Cover	**1MKZ7**
20 gal	18	1A2/X220/S	—	21 ½ in	18.25 in	Black w/White Cover	**1MKZ8**
30 gal	18	1A2/X235/S	—	29 in	18.25 in	Black w/White Cover	**1MLA1**
55 gal	18/18/20	—	—	34 ¼ in	22.5 in	Black	**21YK41**
	18; 20	1A2/Y425/S	—	34 ½ in	22.5 in	Black w/White Cover	**5ERH4**
	18	1A2/X435/S	—	34 ½ in	22.5 in	Black w/White Cover	**1MLA2**
Lever Lock Ring Closure, Lined							
55 gal	18	1A2/X435/S	—	34 ½ in	22.5 in	Black w/White Cover	**2GTW4**
Closed Head							
Lined							
10 gal	20	—	1A1/X1.4/250	19 ¼ in	14 in	Black w/White Cover	**1MLA4**
16 gal	20	—	1A1/X1.4/250	27 ¼ in	14 in	Black w/White Cover	**19K309**
30 gal	16/16/20	—	1A1/X1.8/300	29 ½ in	18.25 in	Black w/White Cover	**2GTX6**
55 gal	18/18/20	—	1A1/X1.8/300	34 ¾ in	22.5 in	Black	**19H067**
	18/18/20	—	1A1/X1.8/300	34 ¾ in	22.5 in	Gray	**23Y339**
	18/18/20	—	1A1/X1.8/300	34 ¾ in	22.5 in	Blue	**23Y341**
	16	—	1A1/X1.8/300	35 ¼ in	22.5 in	Black w/White Cover	**2GTX7**
	18/18/20	—	1A1/X1.8/300	34 ⅞ in	22.5 in	Black	**9CEJ1**
	18/18/20	—	1A1/X1.6/300	36 in	22.5 in	Black w/White Cover	**476H48**
Unlined							
5 gal	20	—	1A1/X1.6/250	10 ⅜ in	14 in	Black w/White Cover	**19K302**
10 gal	20	—	1A1/X1.4/250	19 ¼ in	14 in	Black w/White Cover	**4GY30**
16 gal	20	—	1A1/X1.4/250	27 in	14 in	Black w/White Cover	**1MLA5**
30 gal	20	—	1A1/Y1.5/300	29 ½ in	18.25 in	Black w/White Cover	**4GY31**
	16/16/20	—	1A1/X1.8/300	29 ½ in	18.25 in	Black w/White Cover	**2GTX4**
55 gal	16	—	1A1/X1.8/300	35 ¼ in	22.5 in	Black w/White Cover	**1MLA8**
	18/18/20	—	1A1/X1.6/300	36 in	22.5 in	Black w/White Cover	**476H50**
	18	—	1A1/X1.8/300	36 in	22.5 in	Black w/White Cover	**476H51**
	20/20/20	—	1A1/Y1.4/200	34 ¾ in	22.5 in	Black w/White Cover	**476H49**
Salvage Drums							
Bolt Ring Closure							
5 gal	20/20/20	1A2/X60/S	1A2/Y1.8/150	10 ½ in	14 in	Yellow w/Red Cover	**20UK65**
30 gal	16/18/18	1A2/X235/S	1A2/Y1.5/150	29 in	18.25 in	Yellow w/Red Cover	**5ERJ3**
55 gal	16/18/18	1A2/X400/S	1A2/Y1.5/150	34 ½ in	22.5 in	Yellow w/Red Cover	**2GTY3**
85 gal	18	1A2/X440/S	1A2T/Y320/S	39 ½ in	26 in	Yellow	**2GTY4**
96 gal	16	1A2/X440/S	—	42 ¾ in	26 in	Yellow w/Red Cover	**2GTX8**
110 gal	16	1A2/Y409/S	—	42 ¾ in	30 in	Yellow w/Red Cover	**1MLA9**
Lever Lock Ring Closure							
10 gal	18/20/20	1A2/X120/S	—	19 in	14 in	Yellow w/Red Cover	**4GY33**
20 gal	18	1A2/X220/S	—	21 ½ in	18.25 in	Yellow w/Red Cover	**4GY34**
55 gal	16/18/18	1A2/X400/S	—	34 ½ in	22.5 in	Yellow w/Red Cover	**4GY35**
85 gal	18	1A2/X440/S	1A2T/Y320/S	38 ¾ in	26 in	Yellow	**4GY36**

2GTY5

4GY37

Stainless Steel Transport Drums

Stainless steel drums feature better corrosion resistance and tensile strength than carbon steel drums. Type 304, 2B finish. Open-head drums close easily with a carbon steel bolt ring closure. Closed-head drums feature a 2" x ¾" flanged fitting with a Buna gasket.

Volume Cap.	Gauge	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Item No.
Open Head						
5 gal	20/20/20	1A2/X60/S	1A2/Y1.5/150	10 ⅜ in	14 in	**20UK70**
8 gal	20	1A2/X96/S	1A2/Y1.8/150	15 ⅞ in	14 in	**5ERJ6**
10 gal	20	1A2/X120/S	1A2/Y1.8/150	19 in	14 in	**1MLC2**
16 gal	20	1A2/X200/S	1A2/Y1.5/150	27 in	14 in	**2GTY7**
20 gal	16/18/18	1A2/X160/S	1A2/Y1.5/150	21 ½ in	18.25 in	**2GTY5**
30 gal	16/18/18	1A2/X225/S	1A2/Y1.5/150	29 in	18.25 in	**1HBH3**
55 gal	16/18/18	1A2/X440/S	1A2/Y1.5/150	35 ¼ in	22.5 in	**1MLC4**
	16	1A2/X430/S	1A2/Y1.5/200	34 ½ in	22.5 in	**4GY38**
	18/18/18	—	—	36 in	22.5 in	**20UL06**
85 gal	16/16/16	1A2/X440/S	—	39 in	26 in	**20UK71**
Open Head with 2 and ¾" Fittings in the Cover						
55 gal	16	1A2/X430/S	1A2/Y1.5/200	34 ½ in	22.5 in	**2GTY9**
Closed Head						
8 gal	20	—	1A1/X1.4/250	16 ¾ in	14 in	**5ERJ7**
10 gal	20	—	1A1/X1.4/250	19 ¼ in	14 in	**1MLC1**
16 gal	20	—	1A1/X1.2/250	27 in	14 in	**2GTY8**
20 gal	18	—	1A1/X1.2/300	21 ½ in	18.25 in	**2GTY6**
30 gal	18	—	1A1/X1.2/300	29 ½ in	18.25 in	**1MLC3**
	18/18/18	—	1A1/X1.2/300	29 ½ in	18.25 in	**20UK83** *
55 gal	16	—	1A1/X1.8/550	35 ¼ in	22.5 in	**19K327**
	18	—	1A1/X1.8/300	35 ¼ in	22.5 in	**4GY37**
	18/18/18	—	1A1/X1.8/300	35 ¼ in	22.5 in	**20UK84** *

** Type 316, 2B finish.*

8DRE7

19H066

Fiber Transport Drums

For dry or solid materials. Open-head drums with carbon steel covers, lever lock ring closures, and galvanized chime bands.

Volume Cap.	UN Rating Solid	Overall Height	Inside Dia.	Item No.
With Fiber Lid				
5 gal	1G/Y60/S	8 ¾ in	11.625 in	**8DRE7**
47 gal	—	31 in	—	**23Y340**
55 gal	—	35 ½ in	21.5 in	**23Y338**
With Plastic Lid				
55 gal	—	35 ½ in	21.5 in	**23Y347**
55 gal	1G/Y235/S	36 in	21.5 in	**23Y348**
With Steel Lid				
15 gal	1G/Y106/S	19 ½ in	15.5 in	**19H071**
30 gal	1G/Y140/S	27 in	18.5 in	**19H066**
55 gal	1G/Y260/S	35 ½ in	21.5 in	**19H072**

UN-Rated Drum Covers

White Cover Gasket

2" x ¾" Tri-Sure Style Fittings

Bolt Ring with Bolt and Nut

Lever Lock Ring

Description	For Use With	Item No.
Steel Covers For 5-, 8-, 10- & 16-Gallon		
20-ga. Cover, Painted White, with Gasket	19K299, 1HBG8, 20UK65, 4GY27	**2GTU5**
20-ga. Cover, Painted White, with 2 in x ¾ in Tri-Sure Style Fittings	19K299, 1HBG8, 20UK65, 4GY27	**19K319**
18-ga. Cover, Painted White, with 2 in x ¾ in Tri-Sure Style Fittings	1MKZ7, 4GY33, 5ERJ4	**19K320**
18-ga. Cover, Painted White, with Gasket	1MKZ7, 4GY33, 5ERJ4, 8PKX7	**2GTU6**
Steel Covers For 20- & 30-Gallon		
16-ga. Cover, Painted White, with Gasket	5ERJ3, 8DGK0	**2GTV1**
18-ga. Cover, Painted White, with Gasket	1HBG9, 1MKZ8, 1MLA1, 2GTW9, 2GTX1, 4GY28, 4GY34	**2GTV2**
18-ga. Cover, Painted White, with 2 in x ¾ in Tri-Sure Style Fittings	1HBG9, 1MKZ8, 1MLA1, 2GTW9, 2GTX1, 4GY28, 4GY34	**19K321**
Steel Covers For 55-Gallon		
18-ga. Cover, Painted White, with Gasket	1MLA2, 20UK75, 2GTW5, 2GTW6, 20UK76, 4GY29, 5ERH2, 5ERH4, 5ERH5, 5ERH6	**2GTV6**
18-ga. Cover, Painted White, with 2 in x ¾ in Tri-Sure Style Fittings,	1MLA2, 20UK75, 20UK76, 2GTW5, 2GTW6, 4GY29, 5ERH2, 5ERH4, 5ERH5, 5ERH6	**19K322**
18-ga. Cover, Painted White, with Epoxy/Phenolic Lining and EPDM Gasket	1MLA3, 2GTW4, 2GTW7, 2GTW8, 5ERH7, 5ERH8, 5ERH9, 5ERJ0	**43Y435**
18-ga. Cover, Painted White, Epoxy/Phenolic Lining, with 2 in x ¾ in Tri-Sure Style Fittings and Modified Phenolic Lining	1MLA3, 2GTW4, 2GTW7, 2GTW8, 5ERH7, 5ERH8, 5ERH9, 5ERJ0	**19K323**
16-ga. Cover, Painted White, with Gasket	19K316, 1HBH2, 20UK77, 20UK78, 2GTY3, 4GY35, 8CPP2	**2GTV7**
16-ga. Cover, Painted White, with 2 in x ¾ in Tri-Sure Style Fittings	19K316, 1HBH2, 20UK77, 20UK78, 2GTY3, 4GY35, 8CPP2	**19K324**
16-ga. Cover, Painted White, Epoxy/Phenolic Lining, with 2 in x ¾ in Tri-Sure Style Fittings and Modified Phenolic Lining	19K316, 1HBH2, 20UK77, 20UK78, 2GTY3, 4GY35, 8CPP2	**19K325**
Stainless Steel Covers For 55-Gallon		
16-ga. Cover, 304 Stainless Steel	1MLC4, 2GTY9, 4GY38	**19K326**
16-ga. Cover, 304 Stainless Steel, with EPDM Gasket	20UL06	**43Y436**
5-, 8-, 10- & 16-Gallon Cover Replacement Parts		
Gasket, EDPM		**2GTU7**
Bolt Ring, Includes Bolt and Nut	19K299, 19K303, 19K304, 19K315, 1HBG8, 1MKZ5, 20UK65, 2GTX9, 4GY27	**2GTU8**
Outside Leverlock Ring		**2GTU9**
20- & 30-Gallon Cover Replacement Parts		
Gasket, EDPM	19K311, 19K313, 1HBG9, 1MKZ8, 1MKZ9, 1MLA1, 20UK74, 2GTW9, 2GTX1, 2GTX3, 4GY28, 4GY34, 5ERH3, 5ERJ3, 8DGK0	**2GTV3**
Bolt Ring, Includes Bolt and Nut	19K313, 1HBG9, 1MKZ9, 20UK74, 2GTW9, 4GY28, 5ERJ3	**2GTV4**
Outside Leverlock Ring	19K311, 1MKZ8, 1MLA1, 2GTX1, 2GTX3, 4GY34	**2GTV5**
55-Gallon Cover Replacement Parts		
Gasket, EDPM	19K314, 19K316, 1HBH2, 1MLA2, 1MLA3, 20UK75, 20UK76, 20UK77, 20UK78, 2GTW4, 2GTW5, 2GTW6, 2GTW7, 2GTW8, 2GTY3, 4GY29, 4GY35, 5ERH2, 5ERH4, 5ERH5, 5ERH6, 5ERH7, 5ERH8, 5ERH9, 5ERJ0, 8CPP2	**2GTV8**
Bolt Ring, Includes Bolt and Nut	19K314, 19K316, 1HBH2, 1MLA3, 20UK75, 20UK76, 20UK77, 2GTW5, 2GTW7, 2GTY3, 4GY29, 5ERH2, 5ERH5, 5ERH7, 5ERH9	**2GTV9**
Outside Leverlock Ring	1MLA2, 20UK78, 2GTW4, 2GTW6, 2GTW8, 4GY35, 5ERH4, 5ERH6, 5ERH8, 5ERJ0, 8CPP2	**2GTW1**

Polyethylene Transport Drums

2GTZ1 2GTZ3

High-density polyethylene (HDPE) is compatible with a wide range of chemicals. Open-head drums feature lever lock ring closure. Closed-head drums have two top fittings, a 2" NPT, and a 2" buttress fitting, except 15-gal. drums have 2" NPT, and ¾" NPT. 19H055, 19H056, and 2GTZ3 have double handles.

Volume Cap.	UN Rating Solid	UN Rating Liquid	Overall Height	Inside Dia.	Drum Color	Item No.
Open Head						
30 gal	1H2/Y180/S	—	29 ¼ in	18.5 in	Blue w/White Cover	**2GTZ1**
55 gal	1H2/Y130/S	—	34 ¼ in	23.5 in	Blue w/White Cover	**2GTZ2**
	1H2/Y130/S	—	34 in	23 in	White	**20UK92**
Open Head with Fittings						
30 gal	1H2/Y180/S	—	30 in	19.2 in	Blue w/White Cover	**1MLC6**
55 gal	1H2/Y130/S	—	34 in	23 in	White	**20UK93**
	1H2/Y130/S	—	34 ¾ in	23.1667 in	Blue w/White Cover	**4GY40** *
Closed Head						
15 gal	—	1H1/Y1.9/150	23 ¼ in	15.5 in	Blue	**2GTZ3**
	—	1H1/Y1.8/100	26 ¼ in	14 in	Blue	**1MLC5**
	—	1H1/Y1.8/100	26 ¼ in	14 in	Translucent White	**2GTZ4**
	—	1H1/Y1.9/100	26 ⅜ in	—	Blue	**19H053**
	—	1H1/Y1.9/100	26 ⅜ in	—	White	**19H054**
	—	1H1/Y2.0/150	20 ⅝ in	—	Blue	**19H055**
	—	1H1/Y2.0/150	20 ⅝ in	—	Translucent White	**19H056**
20 gal	—	1H1/Y2.0/150	27 ⅛ in	—	Blue	**23Y342**
	—	1H1/Y2.0/150	27 ⅛ in	—	White	**23Y343**
30 gal	—	1H1/Y1.8/100	29 in	19 in	Blue	**4GY39** *
	—	1H1/Y1.9/150	29 ⅝ in	—	Blue	**19H061**
	—	1H1/Y1.9/150	29 ⅝ in	—	Black	**19H062**
	—	1H1/Y1.9/150	29 ⅝ in	—	Translucent White	**19H063**
	—	1H1/Y1.9/150	29 ⅝ in	—	Red	**23Y336**
	—	1H1/Y1.9/150	29 ⅝ in	—	Yellow	**23Y337**
35 gal	1H1/Y1.4/100	1H1/Y1.9/150	33 ⅞ in	—	White	**23Y335**
55 gal	—	1H1/Y1.8/100	34 ¾ in	23 in	Blue	**4GY41** *
	—	1H1/Y1.9/150	34 ⅞ in	—	Blue	**19H057**
	—	1H1/Y1.9/150	34 ⅞ in	—	Black	**19H058**
	—	1H1/Y1.9/150	34 ⅞ in	—	Translucent White	**19H059**
	—	1H1/Y1.9/150	34 ⅞ in	—	White	**19H060**
	—	1H1/Y1.9/150	34 ⅞ in	—	Red	**23Y333**
	—	1H1/Y1.9/150	34 ⅞ in	—	Yellow	**23Y334**
	—	1H1/Y1.9/150	35 in	—	White w/Green Cover	**23Y346**

**FDA Approved*

21YL66

490Z17

Drum Inserts and Liners

- LDPE construction

INSERTS

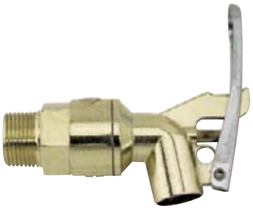
- Vacuum-formed
- Seamless

Inserts are designed to withstand tough applications such as mixing and pumping; won't crack or tear. Contoured lip prevents leakage between insert and drum wall.

DRUM LINERS

Meet FDA requirements.

Cap.	Gauge	L	Color	Pkg. Qty.	Item No.
Inserts					
Pleated					
55 gal	15 mil	33 ⅞ in"	Pink	1	**21YL66**
Accordion Wall					
55 gal	15 mil	34 ½ in"	Natural	20	**490Z17**
Straight-Sided					
30 gal	15 mil	28 ½ in"	Natural	25	**490Z15**
55 gal	15 mil	34 ¼ in"	Natural	20	**490Z13**
55 gal	24 mil	34 ¼ in"	Natural	15	**490Z18**
Drum Liners					
Straight					
30 gal	4 mil	48"	Natural	100	**35KT72**
55 gal	4 mil	65"	Natural	50	**35KT73**
85 gal	8 mil	72"	Natural	10	**35KT83**
Round Head					
55 gal	5 mil	40"	Natural	20	**35KT76**
55 gal	4 mil	40"	Natural	100	**35KT77**
55 gal	4 mil	52"	Natural	100	**35KT78**
55 gal	8 mil	40"	Natural	50	**35KT79**
55 gal	8 mil	52 in"	Natural	50	**35KT80**
55 gal	10 mil	40"	Natural	50	**35KT81**
55 gal	10 mil	53"	Natural	50	**35KT82**



5A501

5A506

1WXB6

Drum Faucets and Drum Safety Vents

FM Approved, except 1XPX8. 5A501 is FM Approved for viscous liquids only, and 5A502 is FM Approved for nonviscous liquids only.

DRUM FAUCETS

Brass Adjustable, Stainless Steel Adjustable, and Brass Rigid—Self-closing. Use with oils up to 30W, noncorrosive flammables, and nonflammables. For use with drum in horizontal position. 5A504 has an internal flame arrestor and adjustable feature that allows the nozzle to be positioned after being threaded into drum. 5A503 has an external flame arrestor.

Economy Zinc Rigid—Self-closing with padlock holes. Cannot be used with chlorinated solvents. Brass color. 5A502 has a flame arrestor.

Brass Gate Valve—Self-closing wide mouth opening. Knife-style, spring-activated PTFE blade has positive shutoff when 4½"W handle is released. Use with viscous noncorrosive liquids heavier than 30W motor oil. Use with drums in horizontal position.

Polypropylene Fiberglass Reinforced—Allows drums with 2" plug to be emptied or filled from a horizontal position. Locking ring connects faucet to drum handle, unscrews plug for tapping or filling.

DRUM SAFETY VENTS

Horizontal—Fusible emergency relief plug melts at 135°F. Brass bung vent and a flame-arresting baffle; max. content flow of 220 cfm at 20 psi.

Vertical—Provides manual vacuum relief. Internal flash arrestor.

Material	Shank Type	Seal Material	(M)NPT Inlet	Item No.
Drum Faucets				
Brass	Adjustable	PTFE	¾ in	**5A504**
Brass	Rigid	PTFE	¾ in	**5A503**
Brass	Rigid	PTFE	—	**5W685** *
Die-Cast Zinc Alloy	Rigid	Viton	¾ in	**5A501** *
Die-Cast Zinc Alloy	Rigid	Viton	¾ in	**5A502**
Polypropylene	—	Nitrile	2 in	**1XPX8**

Type	(M)NPT Inlet	Cracking Pressure	Item No.
Drum Safety Vents			
Horizontal	—	5 psi	**5A506**
Vertical	2 in	5 to 8 psi	**1WXB6**

** For use with viscous liquids.*

Drum Cover Accessories

3AM06

2AV35

Safety Drum Funnel—Fits into 2" drum bung. Accommodates padlock, not included.

Drum Level Gauge—Special plated fitting threads into ¾" NPT drum bung and has a female ¾" NPT provision to fit most faucets. Not for use with chlorinated solvents, high-concentrated acids, or alkalis.

Polyethylene Pop-Up Gauge—Indicator warns when nearing capacity. Screw into ¾" opening of a vertical drum.

Drum Lock—Solid brass with ½" zinc-plated steel lockarm, predrilled with a hole for a padlock, not included. Fits both 2" and ¾" standard dia. drum threads.

Drum Plug Locking Device—Locking device prevents access to the material contained in your drums. Simply slide the two halves of the locking device around the bung flange, slip the joining bar through the halves, and insert a padlock (sold separately) through the end hole of the bar. Sold in a set of two 2" plugs; fits plastic drums with raised bung flanges.

5A507

3KR44

9TM76

Description	Pkg. Qty.	Item No.
Safety Drum Funnel	1	**3AM06**
Drum Level Gauge	1	**5A507**
Polyethylene Pop-Up Gauge	1	**2AV35**
Drum Lock	1	**3KR44**
Drum Plug Locking Device	2	**9TM76**

Drum Covers

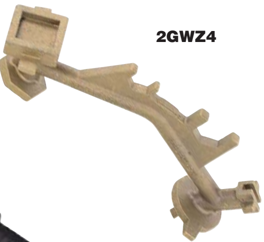
Polyethylene Drum Covers—Lightweight, economical covers have UV screener.

Steel Safety Drum Covers—16-ga. steel drums convert open-top drums into fire-safe receptacles.

Description	Outside Dia.	Pkg. Qty.	Item No.
Polyethylene			
Clear, For 5 gal Pails	9¼" to 13¼"	100	**8VU25**
Clear, For 30 gal Drums	14 ¼ in to 18 ¼ in	100	**3JJN5**
Clear, For 55 gal Drums	19 ¼ in to 23 ¼ in	100	**3JJN3**
Clear, For 55 gal Drums	22 ¾ in	1	**490Z10**
Clear, For 55 gal Drums	25 ⅜ in	1	**490Z09**
Steel			
Red, For 30 gal Drums	18 ⅜ in	1	**2VAE1**
Red, For 55 gal Drums	22 ½ to 22 ¾ in	1	**9G926**
Red, For 55 gal Drums	22 ¾ in	1	**6AX40**

3JJN3

2VAE1



2GWZ4

2GWZ7

Drum Deheaders and Plug Wrenches

Drum Deheaders—Open 5-gal. pails and 30- and 55-gal. drums. 2GWZ7 is for use with a ½" manual ratchet drive, not included. For ratchet drivers, see Grainger.com®.

Description	Construc.	Brand	Item No.
Drum Deheaders			
With Ergonomic Handle	Forged Steel	—	**3AY68**
Express Open Drum Deheader For Use With To Open 30 and 55 Gallon Steel Drums and 5 Gallon Pails	Forged Head	—	**2GWZ7**
Comfort Hand Grip, For Use with 30- and 55-gal. Steel Drums	Steel	—	**38UJ21**
Replacement Blades			
For Use With Non-sparking Drum Deheader 1RD22	Hardened Non-Ferrous Alloy	—	**1RD23**
For Use With Drum Deheader 3AY68	Forged Steel	—	**1VKC7**

For Plug/Bung Style	Overall Length	Material	Brand	Item No.
Drum Bung/Plug Wrench				
T-Type, Standard, Pressure Relief	12 in	Aluminum, Bronze, Nickel	Ampco	**2VJ22**
Drum Bung Wrench				
Bung Pattern 4	10 in	Nylon	—	**5WAH0**
Bung Pattern 4	11 in	Alloy Steel	—	**2YA65**
Bung Pattern 4	11 in	Brass	—	**38VY34**
Bung Pattern 4	12 in	Stainless Steel	—	**45ED03**
Bung Pattern 4	12 in	Bronze	—	**2GWZ6**
Bung Pattern 4	13 in	Alloy Steel	—	**2GWZ3**
Bung Pattern 4	13 in	Bronze	—	**2GWZ4**
Bung Pattern 4	18 ¾ in	Alloy Steel	—	**5WAH1**
Drum Plug Torque Wrench				
Rieke Hex Head Plugs 20-9 Ft-Lb	14 ½ in	Iron	—	**21YL87**
Rieke T Style Round Head Plugs	14 ½ in	Alloy Steel	—	**21YL85**
Drum Plug Wrench				
1 ¼ in Slotted Bung, 2 in Cross Bar Bung	12 in	Bronze	—	**9T577**
Bung Pattern 1, Bung Pattern 2, Bung Pattern 3, Bung Pattern 4, Bung Pattern 5	12 in	Brass Alloy	—	**3AY71**
Bung Pattern 1, Bung Pattern 2, Bung Pattern 3, Bung Pattern 4, Bung Pattern 5	13 ¾ in	Cast Iron	—	**1VKC8**

(Drums not inclulded.)

For Horizontal Metal

Drum Heaters

- Dielectric tested at 1250V for 115V drum heaters and at 1500V for 230V

Mount below drum contents for freeze protection, viscosity control, melting, or keeping elevated temperatures. Nickel alloy heating element and electrically grounded, insulated screen. 115V units have 6-ft. cord set with 3-prong molded plug; 230V have a pigtail end. UL Recognized and CSA Certified.

Note: Actual temperature of the contents is affected by thermostat setting, heater wattage, type of drum contents, ambient temperature, and other system characteristics. Multiple heaters may be required for some applications.

For Vertical Metal

For Poly

FOR VERTICAL METAL

Wraparound heaters connect with a spring-and-clip device. Control range: 50° to 400°F. Temperature control stem rotates 310°. All have adjustable thermostats, except for 3CDA1.

FOR HORIZONTAL METAL

Reusable heater can be used while drum is in cradle. Control range: 50° to 400°F.

FOR POLY

Control range: 50° to 160°F, plus over temperature control.

Drum Cap.	Drum Dia.*	Strap Width	Voltage	Watts	Amps AC	Item No.
For Vertical Metal Drums						
5 gal	11 ¼ in	3 in	115 V	300 W	2.6 A	**3CDA7**
5 gal	11 ¼ in	4 in	115 V	450 W	3.9 A	**3CDA8**
15 gal	14 in	3 in	115 V	500 W	4.3 A	**3CDA6**
15 gal	14 in	4 in	115 V	750 W	6.5 A	**3CDA5**
30 gal	18 ¼ in	3 in	115 V	750 W	6.5 A	**3CDA4**
30 gal	18 ¼ in	4 in	115 V	1,100 W	9.6 A	**3CDA3**
55 gal	22 ½ in	3 in	115 V	1,000 W	8.7 A	**3CCZ9**
55 gal	22 ½ in	3 in	115 V	1,000 W	8.7 A	**3CDA1**
55 gal	22 ½ in	3 in	230 V	1,000 W	4.3 A	**3CDA2**
55 gal	22 ½ in	4 in	115 V	1,500 W	13 A	**3CCZ7**
55 gal	22 ½ in	4 in	230 V	1,500 W	6.5 A	**3CCZ8**
For Horizontal Metal Drums						
55 gal	22 ½ in	8 in	115 V	500 W	4.3 A	**3CDA9**
For Poly Drums						
5 gal	11 ¼ in	6 in	115 V	300 W	2.6 A	**3CDC1**
55 gal	22 ½ in	6 in	115 V	750 W	6.5 A	**3CDC2**

** Plus or minus 1".*

Drum Blankets and Pipe Heaters

Drum Blanket Heater

Silicone Rubber Pipe Heater

DRUM BLANKET HEATERS

Heaters fit 55-gal. drums. For 3JJJ4, control range is 50° to 160°F. For 3JJJ2 and 3JJJ6, control range is 50° to 450°F. 3CDC4 has aluminized cloth exterior with 1" fiberglass insulation. Easy to install with hook-and-loop fasteners. Control range is 50° to 400°F.

SILICONE RUBBER PIPE HEATERS

- Control range: 40° to 60°F

Reusable heaters thaw and keep metal pipes from freezing. Fit dia. from ½" to 1½". Preset thermostat. Install with hook-and-loop fastener straps. Not for plastic pipes.

Silicone Rubber Flexible Heater

SILICONE RUBBER FLEXIBLE HEATERS

- Operate to 400°F
- Resistance tolerance: ±10%

Install with RTV (Dow 732 or equal) adhesive. Include 12" PTFE insulated leads. UL Recognized and CSA Certified.

Polyimide Flexible Heater

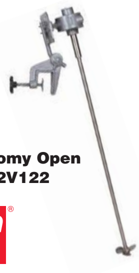
POLYIMIDE FLEXIBLE HEATER

- Operating temp.: -70° to 390°F
- Resistance tolerance: ±10%
- Max. thickness: 0.10", except in lead exit area

Low-profile, low-watt density Kapton® heater. PTFE insulated leads. Easy to install with RTV (Dow 732 or equal) adhesive.

Watt Density	Voltage	Watts	Amps AC	Drum Dia.	H	Item No.
Drum Blanket Heaters						
1.00W/sq in	120 V	770 W	6.4 A	24 in	33 in	**3JJJ4**
2.00W/sq in	120 V	1,600 W	13.3 A	22 in	36 13⁄32 in	**3JJJ2**
2.00W/sq in	240 V	1,600 W	6.67 A	24 in	33 in	**3JJJ6**
5.70W/sq in	115 V	1,000 W	8.7 A	22 ½ in	32 ½ in	**3CDC4**

Watt Density	Voltage	Watts	Amps AC	L	W	Item No.
Silicone Rubber Pipe Heaters						
2.50W/sq in	115 V	150 W	1.3 A	24 in	1 in	**3CDC7**
2.50W/sq in	115 V	230 W	2 A	48 in	1 in	**3CDC8**
2.50W/sq in	115 V	345 W	3 A	72 in	1 in	**3CDC9**
Silicone Rubber Flexible Heaters						
5.00W/sq in	115 V	60 W	0.5 A	6 in	2 in	**3CDD2**
5.00W/sq in	115 V	100 W	0.9 A	10 in	2 in	**3CDD4**
5.00W/sq in	115 V	720 W	4.3 A	12 in	12 in	**3CDD3**
5.00W/sq in	115 V	1,440 W	12.5 A	24 in	12 in	**3CDD1**
Polyimide Flexible Heater						
2.50W/sq in	115 V	160 W	1.4 A	8 in	8 in	**3CDD7**



Economy Open
32V122

Gear Drive
32V139

Direct Drive
32V127

Dayton®

Drum and Tank Mixers

- Shipped unassembled
- 115 to 230V, 1-Phase

Feature TEFC electric motor or air motor and include 316 stainless steel shaft with propeller.

Economy Open Drum Mixers—Mount directly to tanks or on rails with 1⅞" opening adjustable clamp. Adjustable bracket. 4"-dia., 3-blade fixed-propeller. 32V133 and 32V134 include junction box.

Bung-Entering Drum Mixers—For use with 55-gal. or smaller closed-head drums. Enter 2" bung opening with 2-blade folding propeller.

Bung-Entering Intermediate Bulk Container (IBC) Mixers—For use on 275- to 550-gal. drums. 9" propeller folds to pass through 2" coupling. 32V148 provides a metallic 2" coupling by mounting directly to plastic cap of poly IBCs.

Gear-Drive Tank Mixers—Cast-aluminum, handle up to 5000 gal. with viscosities up to 15,000 cps. Clutch-free with 3-blade square-pitch marine propellers. Index marks for angle and radial adjustment.

Direct-Drive Tank Mixers—Clamp to tank rim. Adjustable motor speed, utilizes standard shafting to extend propeller to 48".

- Air-driven

Laboratory Mixer—Clamp can be used to make angular and radial adjustments. Shaft for use with tanks up to 50 gal.

Laboratory Mixer With Stand—Features four shafts. Adjustable height with hand knob. Includes cast-aluminum base with 36" mast. Base bolts to work surface.

- Air-driven

Handheld Air Mixer—Air control valve allows low-speed mixing and easy speed adjustment. Multiblade cage impeller protects blades. Cast-iron aluminum pistol grip. For 5- and 10-gal. open containers.

- Air-driven

Paint Supply Mixers—32V131 is for use with 5-gal. HVLP spray packages. 32V132 is for use with any 55-gal. drum cover. Max. torque of 32V131 is 6.5 in.-lb. (at 650 rpm); max. torque of 32V132 is 26.1 in-lb. (at 350 rpm). Removable shafts for use with lids and containers.

- Air-driven

HP	Motor	Shaft Dia. (in.)	Shaft Length (in.)		Max. RPM	Item No.
Economy Open Drum Mixers						
¼	115 to 230V Single Phase	½ in	32 in	32 in	1,750 RPM	**32V133**
½	115 to 230V Single Phase	⅝ in	32 in	32 in	1,750 RPM	**32V134**
¼ to ½	Pnuematic	⅝ in	35 in	35 in	2,000 RPM	**32V122**
Bung Entering Drum Mixers						
½	115 to 230V Single Phase	⅝ in	32 in	32 in	1,725 RPM	**32V135**
¼ to ½	Pnuematic	⅝ in	32 in	32 in	2,000 RPM	**32V124**
½	115 to 230V Single Phase	⅝ in	29 in	29 in	1,725 RPM	**32V136**
½	Pnuematic	⅝ in	32 in	32 in	2,000 RPM	**32V123**
Bung Entering Intermediate Bulk Container (IBC) Mixers						
½	115 to 230V Single Phase	1 in	40 in	40 in	450 RPM	**32V137**
¾	115 to 230V Single Phase	1 in	40 in	40 in	450 RPM	**32V138**
½	Pneumatic	¾ in	40 in	40 in	430 RPM	**32V125**
Gear Drive Tank Mixers						
⅓	115 to 230V Single Phase	¾ in	48 in	48 in	350 RPM	**32V139**
½	115 to 230V Single Phase	¾ in	48 in	48 in	350 RPM	**32V140**
¾	115 to 230V Single Phase	¾ in	60 in	60 in	350 RPM	**32V141**
Direct Drive Tank Mixers						
1	Pnuematic	⅝ in	36 in	36 in	2,000 RPM	**32V127**
2	Pnuematic	¾ in	36 in	36 in	2,000 RPM	**32V128**
Laboratory Mixer						
1/20	115V Single Phase	5⁄16 in	30 in	30 in	1,700 RPM	**32V142**
Laboratory Mixer w/Stand						
½	Pnuematic	½ in	12 in 16 in 20 in 24 in	12 in, 16 in, 20 in, 24 in	2,000 RPM	**32V129**
Handheld Air Mixer						
½	Pnuematic	½ in	20 ½ in	20 ½ in	1,000 RPM	**32V130**
Paint Supply Mixers						
⅓	Pnuematic	½ in	12 in	12 in	2,000 RPM	**32V131**
½	Pnuematic	½ in	32 in	32 in	2,000 RPM	**32V132**

Description	For Use With	Item No.
Replacement Parts		
Propeller for ½" Shaft	32V131, 32V133	**32V143**
Propeller for ⅝" Shaft	32V122, 32V134	**32V144**
Folding Propeller	32V123, 32V124, 32V135, 32V136	**32V145**
Clamp Assembly	32V122, 32V133, 32V134	**32V146**
Shaft	32V123, 32V124, 32V134, 32V136	**32V147**
Bulkhead Fitting	32V137, 32V138	**32V148**

Cross-Brace Dolly
3KMZ9

With Support Ring
1XUZ9

Multi-Tier with
Support Ring
6FVJ1

WESTWARD®

Cross-Brace Drum Dollies

Cross-brace drum dollies have an X-shaped deck that lets liquids pass through the deck and allows drum spigots to be accessed while the drums are on the dollies. They are lighter than solid-deck dollies.

Dollies with a support ring prevent drums from sliding off.

Heavy-duty cross-brace drum dollies have a strong, welded square frame and can carry heavier drums than other styles of drum dollies.

Multi-tier cross-brace drum dollies have three tiers. The inner tier can support a 5-gal. drum, the middle tier can support a 30-gal. drum, and the outer tier can support a 55-gal. drum.

Load Capacity	For Container Capacity	For Max. Container Diameter	Deck Shape	Caster/Wheel Configuration	Caster Wheel/Tread Material	Brand	Item No.
Cross-Brace Drum Dolly							
Steel Frame							
1,000 lb	55 gal	24"	X-Shape	(4) Swivel	Plastic	—	**3KMZ9**
Cross-Brace Drum Dollies with Support Ring							
Steel Frame							
150 lb	5 gal	11⅝"	Round	(4) Swivel	Polyurethane	—	**48J134**
400 lb	55 gal	23"	Round	(4) Swivel	Plastic	Westward	**34NK68**
1,000 lb	30 gal	19"	Round	(4) Swivel	Plastic	—	**1XUZ8**
1,000 lb	55 gal	23"	Round	(4) Swivel	Plastic	—	**1XUZ9**
1,200 lb	55 gal	23"	Round	(4) Swivel	Plastic	—	**6FVJ6**
1,200 lb	55 gal	27"	Round	(4) Swivel	Steel	—	**45EC84**
1,250 lb	55 gal	23"	Round	(5) Swivel	Plastic	—	**1XWA1**
1,400 lb	55 gal	23"	Round	(5) Swivel	Iron	—	**1XWA2**
2,000 lb	55 gal	24 1/16"	Round	(4) Swivel-with-Brake	Nylon	—	**48J137**
2,000 lb	55 gal	24½"	Round	(8) Swivel	Nylon	—	**48J136**
Plastic Frame							
75 lb	5 gal to 15 gal	11"	Round	(5) Swivel	Plastic	—	**38RY68**
Stainless Steel Frame							
900 lb	55 gal	24"	Round	(4) Swivel	Rubber	—	**445K91**
900 lb	55 gal	24"	Round	(4) Swivel	Rubber	—	**445K92**
1,100 lb	55 gal	23"	Round	(4) Swivel	Plastic	—	**6FVH7**
1,100 lb	55 gal	23"	Round	(5) Swivel	Plastic	—	**6FVH8**
1,200 lb	55 gal	23"	Round	(5) Swivel	Plastic	—	**6FVJ0**
Heavy-Duty Cross-Brace Drum Dolly with Support Ring							
Steel Frame							
2,500 lb	55 gal	23⅞"	Square-with-Circle	(4) Swivel	Phenolic	—	**425Y55**
Multi-Tier Cross-Brace Drum Dolly with Support Ring							
Stainless Steel Frame							
900 lb	5 gal to 55 gal	23"	Round	(4) Swivel	Plastic	—	**6FVJ1**

3JJG9

Easy-Spigot-Access Solid-Deck Drum Dollies

Feature a solid steel deck with raised corners that prevent drums from sliding off. Drum spigots can be accessed while the drums are on the dollies. The dollies include four plastic swivel casters.

Load Capacity	For Container Capacity	For Max. Container Diameter	Deck Shape	Item No.
1,000 lb	30 gal	19¾"	Square	**3JJH2**
1,000 lb	55 gal	24"	Square	**3JJG9**

48J133

Solid-Deck Drum Dollies

These dollies have a solid deck that stops liquid from falling through. The deck has a raised edge that prevents drums from sliding off. Plastic casters.

Frame Material	Load Capacity	For Container Capacity	For Max. Container Diameter	Deck Shape	Caster/Wheel Configuration	Item No.
Plastic	900 lb	30 gal to 55 gal	23¼"	Round	(5) Swivel	**48J133**
Stainless Steel	900 lb	5 gal to 55 gal	23"	Square	(4) Swivel	**6FVJ2**

With Clamping
Support
34NK67

WESTWARD® GUARDAIR CORPORATION LINCOLN

Open-Deck Drum Dollies

Open-deck drum dollies consist of a steel support ring with a large open space at the center. Debris falls through the dollies, and the support ring has a raised edge that keeps drums from sliding off. Open-deck dollies weigh less and are easier to carry than solid-deck drum dollies. They can be hung when not in use.

Dollies with clamping supports have a band clamp that can be tightened to hold drums securely on the dollies, making them suitable for moving smaller drums.

Load Capacity	For Container Capacity	For Max. Container Diameter	Caster Wheel/ Tread Material	Caster/Wheel Configuration	Brand	Item No.
Open-Deck Drum Dollies						
50 lb	5 gal	11 9/32"	Phenolic	(4) Swivel	Westward	**45M948**
750 lb	55 gal	23 13/16"	Steel	(3) Swivel	—	**48J135**
1,000 lb	20 gal to 30 gal	12"	Rubber	(2) Swivel, (2) Axle-Mounted	Guardair	**422V61**
Open-Deck Drum Dollies with Clamping Support						
50 lb	5 gal	14½"	Rubber	(4) Swivel	Lincoln	**6WB26**
120 lb	16 gal	14"	Plastic	(4) Swivel	Westward	**34NK67**
120 lb	16 gal	14¼"	Phenolic	(4) Swivel	Westward	**45M947**
120 lb	16 gal	26½"	Rubber	(4) Swivel	Lincoln	**6WB27**

Easy-Load Drum Dolly

This dolly has a large platform that sits low to the ground and slides under a drum to load it onto the dolly. It provides more support for drums and is less likely to tip than other styles of drum dollies. The dolly has a steel frame with rubber casters. It also has a T-handle that pivots out for pulling the dolly, locks in an upright position for pushing the dolly, and folds to save space when not in use.

Load Capacity	For Container Capacity	For Max. Container Diameter	Deck Shape	Caster/Wheel Configuration	Item No.
1,200 lb	5 gal to 55 gal	23"	Half-Round	(1) Swivel, (2) Axle-Mounted	**6FVJ3**

Steel-Frame Drum Hand Truck 34D646

Ergonomic Tilt-Back Drum Truck 34D647

Ergonomic Tilt-Back Dispensing Drum Truck 34D665

Ergonomic Tilt-Back Corrosion-Resistant Truck 34D654

Dayton

Drum Hand Trucks

A curved frame cradles a drum as it's being moved with the trucks. These hand trucks have prongs that slide under the drum to support it when it is leaned back, and they allow heavy drums to be moved without having to lift them. They also come with a strap or chime hook for securing the drum to the trucks. All feature a prong nose plate and a dual handle design.

Ergonomic tilt-back trucks have two swivel casters mounted on a rear frame extension. The casters support the trucks when they are tilted back, which reduces the physical effort it takes to keep the trucks upright when moving heavy drums.

Dispensing trucks can be laid down horizontally to allow the contents of a drum to be dispensed while the drum is secured to the trucks. The frame extension also supports the drum and keeps it elevated off the ground during dispensing.

Aluminum-frame drum hand trucks are lighter than steel-frame drum hand trucks and resist rusting when exposed to water.

For Container Capacity	For Container Material	Load Capacity	Overall HxWxD	Wheel Type/Material	Item No.
Steel-Frame Drum Hand Trucks					
30 gal, 55 gal	Plastic, Steel	1,000 lb	56 ½ in x 23 ½ in x 14 ½ in	Solid Polyolefin	**34D664**
55 gal	Steel	1,000 lb	59 ½ in x 23 ½ in x 18 in	Tread on Core Rubber	**34D646**
55 gal	Plastic	1,000 lb	59 ½ in x 24 in x 25 in	Tread on Core Rubber	**34D649**
Ergonomic Tilt-Back Steel-Frame Drum Hand Truck					
55 gal	Steel	1,000 lb	59 in x 24 in x 19 ½ in	Tread on Core Rubber	**34D647**
Ergonomic Tilt-Back Dispensing Steel-Frame Drum Hand Trucks					
55 gal	Steel	1,000 lb	56 ½ in x 24 in x 21 ½ in	Tread on Core Rubber	**34D644**
55 gal	Steel	1,000 lb	57 in x 24 in x 24 ½ in	Tread on Core Polyolefin	**34D665**
55 gal	Plastic	1,000 lb	57 in x 24 in x 24 ½ in	Tread on Core Rubber	**34D650**
Ergonomic Tilt-Back Corrosion-Resistant Aluminum-Frame Drum Hand Trucks					
30 gal, 55 gal, 85 gal	Plastic, Steel	700 lb	35 in x 28 in x 57 ½ in	Pneumatic Rubber	**34D654**
30 gal, 55 gal, 85 gal	Plastic, Steel	700 lb	35 in x 28 in x 57 ½ in	Pneumatic Rubber	**34D653** *
30 gal, 55 gal, 85 gal	Plastic, Steel	1,000 lb	37 ½ in x 25 in x 55 in	Tread on Core Rubber	**34D652**
30 gal, 55 gal, 85 gal	Plastic, Steel	1,000 lb	37 ½ in x 25 in x 55 in	Tread on Core Rubber	**34D651** *

***Includes brake.**

3BA27

Dayton

Drum Cradles

55-GAL.

Cross-braced, channeled steel cradle frame with nonsparking oil- and chemical-resistant wheels.

1GC91—Four 3" rigid polyolefin wheels are mounted inside the frame.

3BA26—Two 3" rigid polyolefin wheels and two 3" polyolefin swivel casters.

30- AND 55-GAL.

Four 4" rigid polyolefin rollers allow drum to be rotated for positioning; resist reaction with fats, oil, and chemicals. Partially assembled. Top section has welded steel construction that bolts to the uprights. Retractable hardwood handles.

Cap. (lb.)	Dispensing Height (in.)	Level Height (in.)	L (in.)	W (in.)	Item No.
55-Gal.					
600	15	20 in	31 ⅞ in	—	**1GC91**
600	15	19 ¾ in	31 in	19 in	**3BA26**
30- and 55-Gal.					
1,000	16½	25 in	43 in	19 ¾ in	**3BA27**

LINCOLN PIUSI Blue DEF

Steel 45PG80

Drum Dispensing & Transport Dollies

Specialized dollies can be used for moving drum-dispensing systems, which consist of a 55-gallon drum, hose, and pumping equipment. The dollies have a deck for the drum, pump mounts for the drum pump system, and rubber casters.

Load Capacity	For Max. Container Diameter	Deck Shape	Caster/Wheel Configuration	Brand	Item No.
Steel					
400 lb	—	Square	(2) Swivel-with-Brake, (2) Axle-Mounted	Lincoln	**45PG80**
600 lb	24"	Square	(2) Swivel-with-Brake, (2) Axle-Mounted	Piusi	**53DR91**
Aluminum					
525 lb	23"	Trapezoid	(1) Swivel-with-Brake, (2) Axle-Mounted	Blue Def	**487A75**

Horizontal Steel Drum Storage Racks

Bolt together to form a rigid rack. Forklift accessible. Red powder-coat finish.

Drum Rack Capacity	Cap.	H	W	D	Item No.
(2) 55 gal	800 lb	12 in	45 ½ in	30 in	**30YN83**
(3) 55 gal	800 lb	12 in	71 ½ in	30 in	**30YN84**
(3) 55 gal	2,400 lb	70 in	33 in	34 ¼ in	**31CA28**
(4) 55 gal	3,200 lb	48 ⅜ in	60 in	34 ¼ in	**31CA29**
(6) 55 gal	4,800 lb	48 ⅜ in	85 ½ in	34 ¼ in	**31CA30**
(6) 55 gal	4,800 lb	70 in	60 in	34 ¼ in	**31CA31**
(9) 55 gal	7,200 lb	70 in	85 ½ in	34 ¼ in	**31CA32**

30YN83

31CA29

(Drums not included.)

21VG34

12R539

12R542

12R543

12R538

12R541

21VG33

30YP25

12R540

Drum Lifters

VERTICAL DRUM LIFTERS

- Ship assembled

Move drums to a different location automatically. Align on drum chime using grip pads. Use with overhead hoist or crane. Crane lift hook engages lifter and grab hooks. Orange enamel finish.

ECONOMY DRUM LIFTERS

Lock pin provides safe transportation for drums by preventing them from opening. 1½"-dia. lifting eye is mounted on top of four ¼" x 1" hot-rolled steel supports.

SALVAGE DRUM LIFTERS

- Ship assembled

Orange enamel lifter places a 55-gal. drum into an 85-gal. steel or poly salvage/overpack drum using one moving part.

VERTICAL DRUM LIFTERS/ DISPENSERS

- Ship assembled

Yellow lifter requires just one-person to transport and pour from open- and closed-head drums. Fiber Drum Adapter No. 4W966 sold separately.

Manual 12R538

Control provides 360°, low-level pouring and dumping. Holds drum vertically or horizontally during transit with positive tilt lock on drum saddle.

Geared 12R541

Features 5½-ft. control chain to lock drum in position. Drums that are less full are easier to tilt. Pour from remote heights.

ECONOMY OVERHEAD DRUM LIFTER

The three removable arms have either a drum faucet wrench, a removable top-ring wrench, or a built-in bung nut wrench. Drums can be lifted, transported, or lowered. Does not include required overhead lifting device.

OVERHEAD MOUNT LIFTERS

Drums can be lifted by arm return spring on scissor arms. 21-ft. L x 9-ft. W x 16"H for 55-gal. 2-ft. 19¼"L x 9-ft. W x 15½"H for 30-gal. Use with 6XDR6 and 6XDR7, sold separately.

HOIST-MOUNTED DRUM LIFTER

When lowered, lifter automatically engages drum rim. Stabilizing arm reduces damage to drums. 3-pt. drum contact. Orange enamel finish.

Description	For Use With	Drum Cap.	Lifting Cap.	Overall Length	Overall Width	Overall Height	Item No.
Vertical Lifter	Fiber, Plastic, Steel Drums	30 gal	1,000 lb	19 ¾ in	9 1⁄16 in	18 ½ in	**21VG35**
	Steel or Plastic Drums	55 gal	1,000 lb	24 in	9 in	16 ⅛ in	**21VG34**
Vertical Drum Lifter	Steel Drums	55 gal	1,000 lb	24 in	9 1⁄16 in	16 ⅛ in	**21VG36**
	Steel Drums	55 gal	1,000 lb	36 19⁄32 in	5 in	2 in	**21VG59**
	Steel Drums	55 gal, 30	1,100 lb	38 in	22 ½ in	2 in	**30YP26**
	Closed Steel Drums	55 gal	1,000 lb	29 in	8 in	18 ½ in	**12R539**
Economy Drum Lifter	Closed-head steel drums	55 gal	700 lb	37 ¾ in	23 in	13 in	**12R542**
Salvage Drum Lifter	Closed head steel drums	85 gal, 55	1,000 lb	24 in	9 in	16 in	**12R543**
Vertical Drum Lifter/Dispenser	Steel Drums	55 gal	800 lb	8 in	27 in	44 in	**12R538**
	Steel Drums	55 gal	800 lb	8 in	33 ¼ in	45 ½ in	**12R541**
Manual Vertical Drum Lifter/ Dispenser	Steel Drums	55 gal	800 lb	8 in	27 in	44 in	**21VG37**
	Steel Drums	55 gal	800 lb	8 in	33 ¼ in	45 ½ in	**21VG38**
Drum Lifter	Steel Drums	55 gal	800 lb	30 in	33 in	8 in	**30YP27**
Economy Overhead Drum Lifter	Steel and fiber drums that have a top lip	55 gal	800 lb	17 ½ in	22 in	14 ½ in	**21VG33**
Horizontal Drum Lifter	Steel Drums	55 gal	1,100 lb	30 ½ in	2 ¾ in	6 in	**30YP25**
Hoist Mounted Drum Lifter	For 30 gal and 55 gal Open or Closed Head Steel and Poly Drums	55 gal, 30	1,000 lb	—	28 in	8 in	**12R540**
Adapter for 30 Gal. drum	30 Gal steel drum	30 gal	Less than 545 lb	21 ¼ in	21 in	8 in	**21VG58**

Vertical Lift Polyester Sling 1XWA3

Vertical Lift Steel Sling 21VG53

Horizontal Lift Polyester Sling 1XWA5

(Drums not included.)

Drum Slings

Polyester webbing slings are easy to use and store. Padded to prevent drums from cutting into sling. Rated for operation at temperatures up to 200°F. Include ratchet.

Construc.	Load Capacity	Overall Width	Overall Length	Item No.
Vertical				
Polyester	850 lb	2 in	40 in	**1XWA3**
Polyester	850 lb	2 in	48 in	**1XWA4**
Steel	1,000 lb	2 ¾ in	40 in	**21VG53**
Steel	2,000 lb	3 ½ in	28 in	**21VG32**
Horizontal				
Polyester	1,500 lb	1 in	100 in	**1XWA5**

Dayton

Automatic Fork Truck Drum Lifters

Units feature heavy-duty steel construction and can lift drums easily and quickly without hydraulic or electric connections. Simply slip drum onto forks and tighten hand screws. Attach or hang lifter on hook from an overhead hoist or crane.

SINGLE-DRUM

Single-jaw can be used with steel, plastic, or fiber drums.

DOUBLE-DRUM

For light-gauge steel, removable lid, plastic, and fiber drums with standard top chime. Double-jaw engages the drum in two places, approximately 7" apart, for even weight distribution.

21VG56

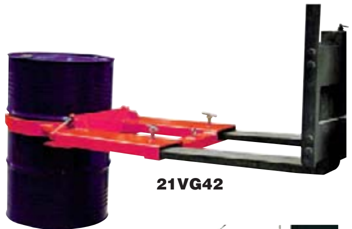
29PH19

29PH21

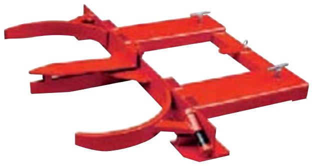
Description	For Drum Material	Drum Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Single Drum							
Drum Lifter	Fiber, Plastic, Steel	55 gal	1,000 lb	43 ¼ in	28 in	32 ½ in	**21VG56**
Drum Grab	Steel	30 gal, 85 gal, 55	1,000 lb	34 in	28 in	34 in	**29PH19**
Drum Lifter, Single Chime Jaw	Steel	15, 30, 55, 85 gal	1,500 lb	38 ¾ in	38 ¼ in	36 in	**29PH23**
Drum Grab	Steel	30 gal, 85 gal, 55	1,600 lb	33 ¾ in	28 in	35 ¼ in	**29PH20**
Double Drum							
Drum Lifter	Fiber, Plastic, Steel	55 gal	2,000 lb	43 ¼ in	40 ½ in	32 ½ in	**21VG57**
Drum Grab	Steel	30 gal, 55 gal	2,000 lb	42 in	44 in	35 ½ in	**29PH21**
Drum Grab	Steel	30 gal, 55 gal	3,200 lb	42 in	44 in	35 ½ in	**29PH22**
Drum Lifter, Double Chime Jaw	Steel	30 gal, 85 gal, 55	4,000 lb	38 ¾ in	46 ¾ in	38 in	**29PH17**
Accessories							
Single Jaw		85 gal, 55	1,000 lb	17 in	16 in	31 in	**21VG60**

21VG40

21VG45



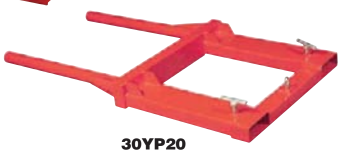
21VG42



21VG46

21VG44

(Drums not included.)



30YP20

30YP19

21VG47

Dayton

Fork-Mounted Drum Handling Equipment

Designed for transporting and lifting closed-head drums.

DRUM GRABS

Hand-tightened lock screws secure grabs to forks. Bar jaws are made of steel. All-welded construction. No tools necessary to adjust drum grabs.

Note: 2-drum models should only be used with two same-sized drums.

Steel Drum Models—For closed-head drums.

Poly Drum Model—Use with drums with at least ⅜" top lip (chime).

AUTO-GRIP

For steel drums only. Mechanical grip is gravity-actuated for heavy-duty applications. For various size overpack drums, spring- and cam-actuated rubber-lined jaws can be manually adjusted. Adjustable distance between forks.

ROUNDED-BOTTOM

21VG55 is used for egg-shaped plastic drums. Low drum attachment point. 21VG47 is used for steel, plastic, and fiber closed-head drums with a top lip. High drum attachment point requires at least $^{3}/_{16}$" drum top lip.

Description	No. of Drums	For Use With	Drum Cap.	Load Capacity	Fork Pocket Size	Item No.
Drum Grabs						
Steel Drum Standard	1	Steel Drums	55 gal	800 lb	5½ in x 2 in	**21VG39**
	1	Steel Drums	55 gal	1,000 lb	5½ in x 2 in	**21VG40**
	2	Steel Drums	55 gal	1,000 lb	7 in x 2¼ in	**21VG45**
Steel Drum Adjustable	1	Steel Drums	30 gal, 55 gal	1,000 lb	5½ in x 2 in	**21VG42**
	2	Steel Drums	30 gal, 55 gal	1,000 lb	7 in x 2¼ in	**21VG46**
Poly Drum Adjustable	1	Poly Drums	30 gal, 55 gal	1,000 lb	5⅜ in x 1½ in	**21VG44**
Auto-Grip						
Gravity-Actuated	1	Steel Drums	55 gal	1,500 lb	5½ in x 2 in	**21VG41**
	1	Steel Drums	30 gal, 55 gal	1,500 lb	5½ in x 2 in	**21VG43**
	1	Steel Drums	55 gal	1,500 lb	5½ in x 1½ in	**21VG54**
Drum Positioners						
Horizontal	1	Steel Drums	55 gal	660 lb	2⅛ inH x 5½ inW	**30YP20**
Horizontal to Vertical	1	Steel Drums	55 gal	880 lb	2½ inH x 5¾ inW	**30YP19**

Load Capacity	Overall Width	Overall Length	Overall Height	Item No.
Rounded-Bottom				
800 lb	28 ¼ in	56 in	22 in	**21VG55**
1,100 lb	28 ¼ in	48 in	22 ⅛ in	**21VG47**

Dayton

Fork-Mounted Drum Lifters/Dispensers

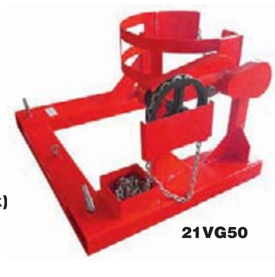
- For 55-gal. drums

Vertical-type dispensers feature an 360° rotation angle. 7½"W x 2½"H fork-pocket size. 31¼" min. between fork pockets. Powder-coat finish.

For Drum Material	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Steel	800 lb	26 ⅜ in	38 ½ in	16 ¼ in	**21VG49**
Steel	1,500 lb	30 ½ in	38 ½ in	19 in	**21VG50**

(Drums not included.)

21VG49 (Shown on fork)



21VG50

Dayton

Drum Carrier, Handler, and Truck

Ergonomically lifts, transports, and places drums on and off pallets. Features a spring-loaded clamp to securely hold any rimmed drum and legs that adjust for different sized pallets. Swivel steering wheels provide easy positioning and precision roller bearing load wheels ensure maximum stability.

Description	For Use With	Drum Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Item No.
Drum Carrier	Steel Drums	55 gal	880 lb	53 in	35 7/16 in	43 in	**29PH16**
Drum Truck	Plastic Drums, Steel Drums	85 gal, 55	880 lb	46 ¾ in	55 ½ in	73 in	**29PH14**
Ergonomic Drum Handler	Plastic Drums, Steel Drums	55 gal, 85 gal	1,000 lb	34 ½ in	43 ¼ in	49 in	**29PH15**

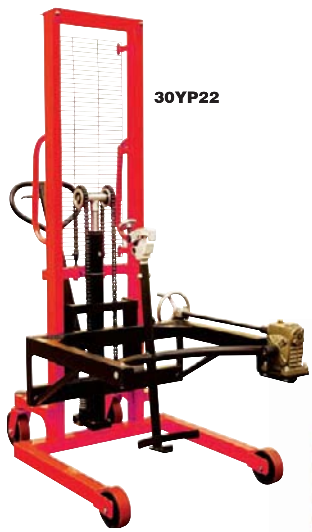
(Drums not included.)

Dayton

Drum Carrier and Palletizer

Steel construction with a powder-coat finish.

Description	For Use With	Drum Cap.	Load Capacity	Item No.
Drum Carrier	Steel Drums	55 gal	800 lb	**21VG48**
Drum Palletizer	Steel Drums	55 gal	880 lb	**30YP24**



Dayton

Drum Stackers

Steel, powder-coat drums can be rotated 360°. Use with 880-lb., 55-gal. capacity drums. 7" polyurethane casters.

For Use With	Drum Cap.	Load Capacity	Overall Height	Overall Width	Overall Length	Item No.
Close-head Drum	55 gal	880 lb	77 ⅛ in	31 ¾ in	52 ⅛ in	**30YP22**
Open and Close-head Drum	55 gal	880 lb	77 ⅛ in	31 ¾ in	52 ⅛ in	**30YP23**

Portable Electric Hydraulic Drum Dumpers

- For open- and closed-head drums
- For use with 30- and 55-gal. steel, plastic, or fiber drums
- Overall width is 36"

Allow one person to load or unload and stop drum at any angle during dumping cycle. Electric limit switch stops unit when max. dumping angle (135°) has been reached. 40-sec. controlled rotation. ¾ HP, 110/208-230V, single-phase electric motor is prewired to 110VAC. 24VAC push-button hand control is mounted on coil cord. Two rigid and two swivel casters.

Dispensing Height (in.)	Rotated Height (in.)	Level Height (in.)	Cap. (lb.)	Item No.
48	116¾	72 ¼ in	1,000	**1TZ83**
60	137¼	84 ½ in	750	**1TZ85**

Scan. Order. Done.
Details on page A1.

Shelf and Utility Cart Selection Guide

MATERIAL

- **Metal:** Metal shelf and utility carts are more rugged and typically can hold heavier loads than plastic shelf and utility carts.
- **Plastic:** Plastic shelf and utility carts are lighter and provide more resistance to dents, corrosion, and water damage than metal shelf and utility carts.

HANDLES

- **(2) Handles:** Front and rear handles allow cart to be pushed from either side when maneuvering in tight spaces.
- **Ergonomic Handle:** Provides comfortable grip.
- **Flat Handle:** Low-profile handle stays out of the way.
- **Raised Handle:** Provides comfortable hand placement and push height.
- **U-Shaped Handles:** Offer secure grip when climbing ladders on vertical-access carts.

SHELVES

- **Adjustable Shelf:** Shelf can be raised or lowered to accommodate items of different sizes.
- **Compartmented Shelf:** Deep compartments keep containers of chemicals stable and capture spills.
- **Deep-Lipped Shelf:** Tall lip contains spills and better protects against items sliding off the shelf than a shorter lip.
- **Fixed Shelf:** Shelf cannot be moved.
- **Flush Shelf:** Flush sides let items slide onto or off of the shelf.
- **Lipped Shelf:** Short lip stops items from sliding off shelf, and heavy items don't need to be lifted far to clear the lip.
- **Perforated Shelf:** Small openings on shelf surface let liquid and debris fall through, which helps keep the shelf clean.
- **Removable Shelf:** Shelf can be removed for cleaning or to accommodate tall items.
- **Shelf with Lipped Guards:** Tall guards run along the length and width of the shelf to prevent items from sliding off it.
- **Single-Side Flush Shelf:** One flush side lets items slide onto or off of the shelf, and three lipped sides stop items from falling off the shelf.

Deep Lipped Shelf w/ Flat Handle 5UTH9

Rubbermaid Commercial Products

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Utility Carts with Deep-Lipped Plastic Shelves

All have 2 swivel casters and 2 swivel casters with brake, except as noted. Assembly required.

Shelf Length	Shelf Width	Overall Length	Overall Width	Top Shelf Height	Distance Between Shelves	Shelf Color	Brand	Item No.
2 Shelves and Ergonomic Handle								
500 lb Load Capacity								
31¼"	17"	39"	18"	33¼"	18⅞"	Beige	Rubbermaid	**4AAZ9** †
31¼"	17"	39"	18"	33¼"	18⅞"	Black	Rubbermaid	**4ACA1** †
36¾"	25"	45½"	26"	37"	18⅞"	Black	Rubbermaid	**4ACA5** †
36⅜"	25"	44"	25½"	33½"	19¼"	Beige	Rubbermaid	**4ACA6** †
36⅜"	25"	44"	25½"	33½"	19¾"	Black	Rubbermaid	**4VZF9** †
38⅛"	24¼"	38½"	24½"	32"	20⅛"	Black	—	**52TV60**
38⅛"	24¼"	38½"	24½"	32"	20⅛"	Gray	—	**52TV58**
750 lb Load Capacity								
46½"	25"	55"	26"	33¼"	18⅞"	Black	Rubbermaid	**4DFV6** †
2 Shelves and Flat Handle								
300 lb Load Capacity								
24"	18"	24"	18"	37½"	26"	Blue	—	**13W631**
24"	18"	24"	18"	37½"	26"	Red	—	**13W630**
400 lb Load Capacity								
32"	24"	32"	24"	37¼"	24¾"	Black	—	**5WCU8**
500 lb Load Capacity								
30"	17½"	34½"	17½"	33"	19"	Beige	—	**5UTH8** †
30"	17½"	34½"	17½"	33"	19"	Gray	—	**5UTH9** †
30"	17½"	34½"	17½"	33"	19"	Green	—	**5UTJ0** †
36"	24"	40"	25½"	37¼"	19¾"	Gray	—	**401R92** †
37"	25⅝"	41"	26"	33"	19"	Beige	—	**5UTJ1** †
37"	25⅝"	41"	26"	33"	19"	Gray	—	**5UTJ2** †
37"	25⅝"	41"	26"	33"	19"	Green	—	**5UTJ3** †
25-63/100"	32½"	25-63/100"	32½"	32¼"	18⅞"	Black	Rubbermaid	**2ZB54** †
29½"	15½"	34¼"	17-37/100"	31¼"	18⅞"	Black	Rubbermaid	**2ZB53** †
31½"	18"	39"	18"	33"	18⅞"	Beige	Rubbermaid	**1FD39** †
31½"	18"	39"	18"	33"	18⅞"	Black	Rubbermaid	**1FD38** †
35⅞"	24"	40½"	26"	31¼"	18⅞"	Light Grey	Rubbermaid	**8Z623** †
36⅞"	24⅞"	45½"	26"	34¼"	18⅞"	Black	Rubbermaid	**1FD42** †
37½"	26"	45½"	26"	34¼"	18⅞"	Beige	Rubbermaid	**1FD43** †
2 Shelves and Raised Handle								
300 lb Load Capacity								
24"	18"	24"	18"	37½"	26"	Gray	—	**9F954**
400 lb Load Capacity								
33¾"	21½"	34"	21½"	33¼"	24"	Black	Metro	**8URD4** *
39½"	27"	39½"	27"	33¼"	24"	Black	Metro	**2XJR6** *
3 Shelves and Flat Handle								
300 lb Load Capacity								
24"	18"	24"	18"	38"	24¾"	Black	—	**8ZRY7**
24"	18"	24"	18"	38½"	10¾"	Gray	—	**9JDN1**
24"	18"	24"	18"	38½"	11¾"	Red	—	**13W633**
24"	18"	24"	18"	38½"	12"	Black	—	**8DGV2**
24"	18"	24"	18"	38½"	36½"	Blue	—	**13W634**
400 lb Load Capacity								
32"	24"	32"	24"	38"	10¾"	Black	—	**9LDN6**
32"	24"	32"	24"	38"	10¾"	Gray	—	**9APA5**
32"	24"	32"	24"	38"	24¾"	Black	—	**8GPT8**
3 Shelves and Raised Handle								
33¾"	21½"	34"	21½"	33¼"	11"	Black	Metro	**8DH66** *
39½"	27"	39½"	27"	33¼"	11"	Black	Metro	**2XJR8** *

** 4 swivel casters. † 2 swivel, 2 rigid casters.*

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Lipped Shelves w/ Flat Handle 13W538

Utility Carts with Lipped Plastic Shelves

All have 2 swivel casters and 2 swivel casters with brake, except as noted. Assembly required.

Shelf Length	Shelf Width	Overall Length	Overall Width	Top Shelf Height	Distance Between Shelves	Shelf Color	Includes Electrical Outlets	Brand	Item No.
2 Shelves and Flat Handle									
200 lb Load Capacity									
24"	18"	24"	18"	24½"	16½"	Black	No	—	**4HRK3**
24"	18"	24"	18"	24½"	20½"	Black	Yes	—	**9GMU7**
24"	18"	24"	18"	24½"	24½"	Blue	No	—	**4HRK2**
24"	18"	24"	18"	24½"	24½"	Green	Yes	—	**4HRU7**
300 lb Load Capacity									
24"	18"	24"	18"	33"	26"	Black	No	—	**9LDN5**
24"	18"	24"	18"	33"	26"	Gray	No	—	**9WRA1**
24"	18"	24"	18"	33"	26"	Red	No	—	**13W641**
24"	18"	24"	18"	33½"	26"	Black	No	—	**9LDF2**
24"	18"	24"	18"	33½"	26"	Gray	No	—	**9KC23**
28-5/16"	18¼"	31½"	18½"	35¾"	24"	Black	No	Metro	**29JU25** *
28-5/16"	18¼"	31½"	18½"	35¾"	24"	Gray	No	Metro	**29JU27** *
31¼"	23⅜"	34½"	24"	35¾"	24"	Black	No	Metro	**29JU31** *
31¼"	23⅜"	34½"	24"	35¾"	24"	Gray	No	Metro	**29JU33** *
400 lb Load Capacity									
32"	24"	24"	32"	34½"	25"	Black	No	—	**9MN33**
32"	24"	32"	24"	32¾"	24¾"	Black	No	—	**9APA4**
32"	24"	32"	24"	32¾"	24¾"	Gray	No	—	**8NLW2**
32"	24"	32"	24"	34½"	25"	Gray	No	—	**9GV15**
37"	27⅝"	40½"	28"	36⅝"	24"	Black	No	Metro	**29JU37** *
37"	27⅝"	40½"	28"	36⅝"	24"	Gray	No	Metro	**29JU39** *
3 Shelves and Flat Handle									
300 lb Load Capacity									
24"	18"	24"	18"	32"	11¾"	Black	No	—	**8PLK4**
24"	18"	24"	18"	32"	11¾"	Blue	No	—	**13W645**
24"	18"	24"	18"	34"	9½", 16½"	Black	No	—	**13W538**
24"	18"	24"	18"	34"	9½", 16½"	Blue	Yes	—	**4HRN9**
24"	18"	24"	18"	34"	9½", 16½"	Gray	No	—	**4HRP8**
24"	18"	24"	18"	34"	9½", 16½"	Green	Yes	—	**4HRV4**
24"	18"	24"	18"	34"	9½", 16½"	Purple	No	—	**13W539**
24"	18"	24"	18"	34"	9½", 16½"	Red	No	—	**13W565**
24"	18"	24"	18"	42"	16½"	Black	No	—	**4HRR4**
24"	18"	24"	18"	42"	16½"	Black	Yes	—	**8G426**
24"	18"	24"	18"	42"	16½"	Blue	No	—	**4HRR3**
24"	18"	24"	18"	42"	16½"	Gray	Yes	—	**5WCP3**
24"	18"	24"	18"	42"	16½"	Red	Yes	—	**4HRU2**
32"	24"	24"	18"	33½"	10¾"	Black	No	—	**9RYW0**
400 lb Load Capacity									
24"	18"	24"	18"	34"	8½", 17¾"	Black	Yes	—	**8DXD2**
24"	18"	24"	18"	34"	11¾"	Black	No	—	**8Y889**
28-5/16"	18¼"	31½"	18½"	35¾"	11"	Black	No	Metro	**29JU28** *
28-5/16"	18¼"	31½"	18½"	35¾"	11"	Gray	No	Metro	**29JU30** *
31¼"	23⅜"	34½"	24"	35¾"	11"	Black	No	Metro	**29JU34** *
31¼"	23⅜"	34½"	24"	35¾"	11"	Gray	No	Metro	**29JU36** *
500 lb Load Capacity									
37"	27⅝"	40½"	28"	36⅝"	11"	Black	No	Metro	**29JU40** *
37"	27⅝"	40½"	28"	36⅝"	11"	Gray	No	Metro	**29JU42** *
5 Shelves and Flat Handle									
300 lb Load Capacity									
24"	18"	24"	18"	46"	8½"	Black	No	—	**8EJ11**

** 4 swivel casters.*

Cart w/ Lockable Sliding Drawer
3NE61

Lockable Instrument Cart
4MC26

Enclosed and Lockable Plastic Service Carts

Rubbermaid Commercial Products

- Assembly required

APPROVED VENDOR

- Ergonomic, easy-grip handles
- 4 ball-bearing swivel casters (2 with brake)

Rubbermaid

- Carts have aluminum uprights, except 3NE61 has plastic
- 4 swivel casters

Load Capacity	No. of Shelves	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
2-Sided Enclosed Service Cart							
400 lb	3	43 ⅝ in	20 ¼ in	39 ¾ in	Off-White	—	**35KT29**
3-Sided Enclosed Service Carts							
300 lb	3	40 ⅜ in	20 in	37 ⅘ in	Black	Rubbermaid	**4YX42**
400 lb	3	43 ⅝ in	20 ¼ in	39 ¾ in	Black	—	**35KT30**
400 lb	3	43 ⅝ in	20 ¼ in	39 ¾ in	Off-White	—	**35KT31**
Carts w/ Lockable Cabinet							
300 lb	2	40 ⅜ in	20 in	37 ⅘ in	Black	Rubbermaid	**4YX43**
400 lb	3	34 ¼ in	19 in	39 ½ in	Black	—	**35KT33**
Carts w/ Lockable Sliding Drawer							
200 lb	2	33 ⅝ in	18 ⅝ in	37 ¾ in	Black	Rubbermaid	**3NE61**
400 lb	3	34 ¼ in	19 in	39 ½ in	Black	—	**35KT32**
Lockable Instrument Carts							
300 lb	2	40 ⅝ in	20 in	37 13/16 in	Gray	Rubbermaid	**4MC26**
400 lb	3	34 ¼ in	19 in	39 ½ in	Black	—	**35KT34**

Description	Brand	Item No.
Accessories		
30 lb Bin for Utility Carts with Plastic or Wire Shelves - Black	Rubbermaid	**3NE59**
65 lb Bin for Utility Carts with Plastic or Wire Shelves - Black	Rubbermaid	**3NE60**

406R91

Rubbermaid Commercial Products

Adaptable-Design Utility Carts with Deep Lipped Plastic Shelves

Adaptable-design utility carts can be reconfigured for different tasks. The carts' ergonomic handle can be repositioned to improve operator comfort. A flip-up shelf provides a flat work surface without having to rearrange items on the top shelf. Tool-holding slots, snap hooks, and other storage features keep items organized on the carts. V-notch holds pipe or conduit during cutting. The carts' shelves have a tall lip that contains spills and stops items from sliding off the shelves. All have two locking swivel casters and two rigid casters. Assembly required.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Shelf Color	Item No.
500 lb	44 in	17 in	46 ½ in	18 in	36 in	20 in	Black	**406R89**
	48 in	25 in	51 ½ in	25 ½ in	36 in	22 in	Black	**406R91**

AKRO-MILS

Utility Carts with Flip-Gate Flush Plastic Shelves

4YT95

The shelves on these carts have hinged sides that flip up to create a lip that stops items from falling off them or flip down to create a flush surface that lets items slide onto or off of the shelves during loading or unloading. The carts' I-shaped support posts provide unobstructed access to the bottom shelf. All have two swivel casters with brake and 2 rigid casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Item No.
400 lb	28 in	17 in	42 in	19 in	34 in	**5YM99**
	32 in	22 in	46 in	24 in	34 in	**4YT95**

Nestable Utility Carts with Perforated Lipped Plastic Shelves

6WZK8

These utility carts nest together to save space when storing the carts. The carts' perforated plastic shelves let liquids, dirt, and debris fall through them, which helps keep the shelves clean when the carts are used in dirty or wet areas. The shelves have a short lip that stops items from sliding off them. All have two swivel and two rigid casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
600 lb	37 in	22 in	40 in	26 ½ in	44 in	18 in	**6WZK8**
	37 in	22 in	40 in	29 ½ in	44 in	18 in	**6WZK9**

Cart Position Shown

Truck Position Shown

Convertible Utility Carts with Flush Plastic Shelf and Platform

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The top shelf on this cart folds down to convert it to a solid-back platform truck so it can carry items that would be too large to fit on it when the top shelf is in place. The shelf and platform are flush, which lets items slide onto or off of them during loading and unloading. The platform has a 250-lb. capacity. The cart has four swivel casters, two of which are locking. Ships assembled.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Item No.
400 lb	32 in	23 ½ in	45 ½ in	24 in	34 ½ in	**1MDN4**

4UR44

4UR43

5M738

1FD41

1FD45

Rubbermaid Commercial Products

Structural Foam Plastic Mobile Cabinet Workbenches

Mobile cabinet workbenches provide tool storage and a flat work space. Made from structural foam plastic, which will not rust, dent, or chip. Models with lockable drawers feature ball bearing full-extension slides. Some assembly required, except for 4UR44.

250-LB. CAPACITY

Five metal storage drawers. Pegboard side panels provide hanging storage. Locking bar keeps contents secure. Built-in cord wrap. Four 4" nonmarking casters (2 swivel, 2 rigid).

330-LB. CAPACITY

Multiple compartmentalized boxes and slide-out trays. Molded compartments on handle provide extra storage. Built-in cord wrap. Four 5" nonmarking casters (2 locking swivel, 2 rigid).

500-LB. CAPACITY

Locking cabinet with shelves or four locking drawers. Includes 3-outlet surge-suppressor power strip with 10 ft. cord. Four 5" nonmarking casters (2 locking swivel, two rigid).

750-LB. CAPACITY

Locking cabinet and four locking drawers. Includes 3-outlet surge-suppressor power strip with 10-ft. cord. Four 5" casters (2 locking swivel, 2 rigid).

Load Capacity	D	W	H	Item No.
250 lb	19 13⁄16 in	32 ⅝ in	33 ½ in	**4UR44**
330 lb	19 ¼ in	38 in	33 ⅜ in	**4UR43**
	19 ¼ in	38 in	33 ⅞ in	**5M738**
500 lb	18 ⅜ in	40 ⅝ in	33 ⅜ in	**1FD41**
750 lb	26 ¼ in	49 in	38 in	**1FD45**

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Chemical-Resistant Utility Carts with Plastic Shelves

With Compartmented Plastic Shelves 9NKX9

Made from chemical-resistant materials that withstand exposure to acids and corrosives. All have two swivel and two rigid casters (6GJY8 has locking casters), two shelves, and a flat handle. **Antimicrobial** shelves have been treated with an antimicrobial compound to prevent the growth of odor- and stain-causing bacteria, mold, and mildew.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Brand	Item No.
With Compartmented Plastic Shelves							
150 lb	23 in	15 ¼ in	29 in	16 ½ in	38 in	—	**9NKX9**
250 lb	30 ¾ in	23 in	36 ½ in	24 in	36 in	—	**9T856**
With Antimicrobial Lipped Plastic Shelves							
600 lb	36 in	18 in	36 in	18 in	40 in	Metro	**6GJY8**

With Antimicrobial Lipped Shelves 6GJY8

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Utility Carts with Antimicrobial Plastic Shelves

The blue plastic shelves on these carts have been treated with an antimicrobial compound that prevents odor- and stain-causing bacteria, mold, and mildew from growing on the shelves. All have four swivel casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
Perforated Flush Shelves							
Ergonomic Handle and 2 Shelves							
900 lb	30 in	18 in	34 ½ in	20 ½ in	39 ½ in	26 in	**20W686**
	36 in	24 in	40 ½ in	26 ½ in	39 ½ in	26 in	**20W688**
Ergonomic Handle and 3 Shelves							
900 lb	30 in	18 in	34 ½ in	20 ½ in	39 ½ in	11 in	**20W687**
	36 in	24 in	40 ½ in	26 ½ in	39 ½ in	11 in	**20W685**
Lipped Shelves							
Flat Handle and 2 Shelves							
300 lb	28 5⁄16 in	18 ¼ in	31 ½ in	18 ½ in	35 ½ in	24 in	**29JU26**
	31 ¼ in	23 ⅜ in	34 ½ in	24 in	35 ½ in	24 in	**29JU32**
400 lb	37 in	27 ⅝ in	40 ½ in	28 in	37 in	24 in	**29JU38**
Flat Handle and 3 Shelves							
400 lb	28 5⁄16 in	18 ¼ in	31 ½ in	18 ½ in	35 ½ in	11 in	**29JU29**
	31 ¼ in	23 ⅜ in	34 ½ in	24 in	35 ½ in	11 in	**29JU35**
500 lb	37 in	27 ⅝ in	40 ½ in	28 in	37 in	11 in	**29JU41**
Deep Lipped Shelves							
Flat Handle and 2 Shelves							
400 lb	32 ¾ in	21 ½ in	32 ¾ in	21 ½ in	41 in	24 in	**9CD06**
Raised Handle and 3 Shelves							
400 lb	39 ½ in	27 in	39 ½ in	27 in	41 in	11 in	**36NK67**

20W685

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Antimicrobial Polymer Mobile Shelving

- NSF Listed, except 3TJ71
- 5" casters

Feature Microban® antimicrobial product protection. Lift-off removable shelf mats are dishwasher-safe and easy to clean and maintain. Shelf height adjusts using quick-release mechanism.

MetroMax Q—Feature gray epoxy-coated steel posts and shelf frame.

MetroMax i—Feature all polymer posts and shelf frames.

Load Capacity	Overall Depth	Overall Width	Overall Height	Distance Between Shelves	Caster Material	Item No.
MetroMax Q®						
4 Ventilated Shelves						
900 lb.	26 in	38 in	67 in	—	Polyurethane	**3TJ71**
	26 in	50 in	67 in	17"	Rubber	**20W682**
	26 in	62 in	67 in	—	Polyurethane	**3TJ72**
	26 in	62 in	67 in	17"	Rubber	**20W683**
4 Ventilated Shelves & 1 Solid Shelf						
900 lb.	20 in	38 in	79 in	15"	Polyurethane	**20W696**
	26 in	50 in	79 in	15"	Polyurethane	**20W701**
	26 in	62 in	79 in	15"	Polyurethane	**20W702**
MetroMax i®						
4 Solid Shelves						
900 lb.	20 in	62 in	67 in	17"	Polyurethane	**20W663**
	26 in	38 in	67 in	17"	Polyurethane	**20W666**
	26 in	50 in	67 in	17"	Polyurethane	**20W668**
	26 in	62 in	67 in	17"	Polyurethane	**20W671**
4 Ventilated Shelves						
900 lb.	20 in	50 in	67 in	17"	Rubber	**20W659**

MetroMax Q® Ventilated and Solid Shelves 20W696

Find More Utility Cart Option Information on pg. 1144.

2 Shelves w/ 2 Raised Handles
3JHU1

2 Shelves w/ Ergonomic Handle
16D355

2 Shelves w/ Flat Handle
1TGT8

5 Shelves w/ Flat Handle
19G698

METRO · LITTLE GIANT · WESTWARD

Utility Carts with Flush Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and (2) Raised Handles								
600 lb	36"	18"	36"	18"	42"	—	Metro	**3JHU1**
	36"	24"	36"	24"	42"	—	Metro	**3JHU3**
2 Shelves and Ergonomic Handle								
3,600 lb	48"	24"	54¼"	24¼"	40¾"	22¼"	—	**16D355**
2 Shelves and Flat Handle								
1,500 lb	36"	24"	42"	24"	39"	19½"	—	**5CHA3**
	36"	24"	42½"	24½"	36"	26¾"	—	**49Y228**
	48"	24"	52"	24½"	38"	18¾"	—	**5CHA4**
	60"	30"	66½"	30½"	36"	18¾"	—	**5CHA6**
	60"	30"	66½"	30½"	38"	26¾"	—	**49Y231**
2,400 lb	36"	24"	42½"	24½"	39"	19¼"	—	**16D362**
	48"	24"	52"	24½"	38"	19¼"	—	**16D363**
	48"	30"	53½"	30"	36"	19½"	Little Giant	**39E635**
	60"	30"	66½"	30½"	60"	19¼"	—	**16D365**
3,600 lb	60"	30"	65½"	30"	36"	19½"	Little Giant	**19G769**
4,000 lb	36"	24"	36½"	24½"	36"	26¾"	—	**1TGT4**
	48"	24"	52"	24½"	36"	26¾"	—	**1TGT5**
	48"	30"	52"	30¼"	38½"	26¾"	—	**1TGT6**
	48"	36"	52"	36¼"	35½"	26¾"	—	**1TGT7**
	72"	36"	78½"	36½"	39"	26¾"	—	**1TGT8**
5,000 lb	36"	24"	48"	24½"	34½"	23¼"	—	**1TGV8**
	48"	24"	52"	24½"	33½"	23¼"	—	**1TGV9**
	48"	24"	52"	24½"	45"	26¾"	Westward	**52CL38**
	48"	30"	52"	30¼"	35"	23¼"	—	**1TGW1**
	48"	30"	52"	30¼"	36½"	26¾"	—	**49Y157**
	48"	30"	52"	30¼"	38"	26¾"	Westward	**52CL41**
	60"	30"	65½"	30"	36"	23"	Little Giant	**8CGA9**
	60"	30"	66½"	30½"	35"	23¼"	—	**10F435**
	72"	36"	77½"	36"	36"	23"	Little Giant	**9CKA8**
	72"	36"	78½"	36½"	39"	23¼"	—	**1TGW3**
600 lb	36"	24"	42½"	24½"	36"	—	—	**2HDR1**
3 Shelves and Flat Handle								
1,200 lb	30"	18"	36¼"	18¼"	36"	12½"	—	**423P54**
2,000 lb	48"	24"	53½"	24"	35"	11¾"	Little Giant	**49Y471**
3,000 lb	48"	24"	52"	24½"	38"	12½"	—	**9NKW3**
5,000 lb	48"	30"	48"	30¼"	39½"	12½"	—	**49Y167**
	60"	30"	65½"	30"	36"	10½"	Little Giant	**10F430**
5 Shelves and Flat Handle								
3,000 lb	60"	30"	78½"	30¼"	63"	12½"	—	**19G698**

2 Shelves w/ Flat Handle
2CZY4

5 Shelves w/ Flat Handle
1TGV4

Jamco carts · WESTWARD · LITTLE GIANT

Utility Carts with Lipped Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and Ergonomic Handle								
1200 lb	36"	18"	42"	19"	39"	25"	Jamco	**16C098**
	36"	24"	36"	24½"	41"	24"	—	**16C432**
	36"	24"	39"	24½"	41"	31"	—	**2XJR9**
	36"	24"	54½"	24½"	40"	26¾"	—	**49Y185**
	36"	30"	42"	31"	39"	25"	Jamco	**16C104**
	48"	24"	54"	25"	43"	25"	Jamco	**16C433**
	48"	30"	54"	31"	43"	25"	Jamco	**16C437**
	48"	36"	54"	37"	43"	25"	Jamco	**16C440**
	72"	24"	78½"	24½"	41"	26¾"	—	**16C435**
1400 lb	36"	24"	42"	24½"	35"	24"	—	**4HTN7**
2 Shelves and Flat Handle								
100 lb	27"	18"	30"	18"	33¼"	23"	Westward	**2CZY4**
1200 lb	24"	18"	30¼"	18¼"	33"	23"	—	**16C184**
	24"	18"	54½"	24½"	36"	23¾"	—	**19G933**
	30"	18"	54½"	24½"	36"	23¾"	—	**2NXV2**
	30"	24"	36"	25"	35"	19"	Jamco	**16C403**
	32"	18"	64½"	24½"	40½"	26¾"	—	**9GE64**
	36"	18"	42"	24½"	37"	23"	—	**16C186**
	36"	24"	42"	24"	35"	25"	—	**9GEY9**
	36"	24"	54"	24½"	37"	26¾"	—	**49Y123**
	36"	24"	75½"	24½"	51½"	24½"	—	**8RR22**
	36"	30"	42"	31"	35"	19"	Jamco	**8ER52**
	48"	18"	54"	19"	35"	20"	Jamco	**16C754**
	48"	24"	54½"	24½"	38"	26¾"	—	**49Y124**
	48"	30"	54"	31"	39"	25"	Jamco	**8VXZ9**
	48"	36"	54"	37"	39"	25"	Jamco	**16C721**
	48"	36"	64½"	36¼"	38"	21"	—	**16C764**
	60"	24"	66½"	24¼"	44"	21"	—	**16C758**
	60"	30"	66"	31"	39"	25"	Jamco	**8VYF9**
	60"	30"	66½"	30½"	38½"	26¾"	—	**49Y125**
	72"	30"	78"	31"	35"	19"	Jamco	**16C406**
1400 lb	36"	24"	42"	25"	35"	25"	—	**1NFA8**
1500 lb	36"	24"	42"	24"	39"	18"	—	**5CGZ9**
	36"	24"	54½"	24½"	34"	19¼"	—	**49Y555**
	36"	24"	54½"	24½"	43½"	26¾"	—	**49Y224**
	36"	24"	78½"	24½"	47"	19¼"	—	**49Y556**
	48"	24"	51"	24½"	40"	19¼"	—	**49Y559**
	48"	24"	54"	24"	39"	18"	—	**5CHA0**
	48"	30"	52"	30½"	36"	17¼"	—	**5CHA1**
	48"	30"	63½"	30¼"	60"	26¾"	—	**49Y226**
	60"	30"	66½"	30½"	39½"	17¼"	—	**5CHA2**
2000 lb	36"	24"	39"	24½"	41½"	19¾"	—	**39E629**
2400 lb	36"	24"	36"	24½"	41½"	17¾"	—	**16D366**
	36"	24"	54½"	24½"	38"	26¾"	—	**49Y160**
	36"	24"	54½"	24½"	41"	17¾"	—	**39E637**
	48"	24"	52"	24½"	35"	23¾"	—	**49Y581**
	60"	30"	66½"	30½"	68"	26¾"	—	**49Y163**
3000 lb	36"	24"	66½"	24½"	40"	23¾"	—	**8DGG1**
3600 lb	48"	24"	53½"	24"	36"	18"	Little Giant	**19G782**
2 Shelves and Raised Handle								
1200 lb	36"	24"	39"	24"	36"	16"	—	**10F449**
3 Shelves and Ergonomic Handle								
1200 lb	36"	24"	42¼"	24¼"	43⅜"	12½"	—	**19G674**
	60"	36"	66½"	36¼"	41½"	12½"	—	**16C116**
3 Shelves and Flat Handle								
1200 lb	30"	18"	54½"	24½"	38"	10½"	—	**16C190**
	30"	18"	54½"	24½"	45"	12½"	—	**2NXV5**
	30"	24"	36"	25"	39"	12"	Jamco	**16C392**
	32"	18"	64½"	24½"	40½"	12½"	—	**9PP81**
	36"	18"	42¼"	18¼"	37⅝"	12½"	—	**49Y132**
	36"	24"	42"	24"	35"	11¾"	—	**9CM21**
	36"	24"	54½"	24½"	36"	14⅜"	—	**49Y461**
	36"	30"	42"	31"	35"	12"	Jamco	**16C732**
	36"	30"	42"	31"	39"	12"	Jamco	**16C395**
	48"	24"	52"	24¼"	34"	12½"	—	**49Y135**
	48"	24"	52"	24½"	40"	10½"	—	**16C193**
	48"	36"	54"	37"	35"	12"	Jamco	**16C734**
1500 lb	36"	48"	48"	48¼"	36"	12"	—	**40LF03**
2000 lb	60"	30"	65½"	30"	36½"	11¾"	Little Giant	**49Y482**
3000 lb	36"	24"	66½"	24½"	36"	17"	—	**8XEW4**
	48"	24"	54"	24½"	35"	17"	—	**8CYY7**
	48"	30"	54½"	30¼"	60"	12½"	—	**10F425**
	60"	36"	66½"	36¼"	41"	17"	—	**16A931**

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Utility Carts with Lipped Metal Shelves

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
4 Shelves and Flat Handle								
3000 lb	36"	24"	39"	24½"	40"	14¾"	—	**49Y149**
	48"	24"	52"	24¼"	36½"	14¾"	—	**2TUH8**
	48"	30"	54"	31"	60"	15"	Jamco	**16A935**
	60"	30"	66½"	30½"	40½"	14¾"	—	**49Y151**
	72"	36"	78"	37"	60"	15"	Jamco	**8ER69**
5 Shelves and Flat Handle								
1200 lb	36"	18"	54½"	24½"	63"	9¾"	—	**1TGV3**
	36"	24"	42¼"	24¼"	55⅝"	9¾"	—	**1TGV4**
	48"	24"	52"	24¼"	63"	9¾"	—	**1TGV5**
	60"	30"	66½"	30½"	63"	9¾"	—	**49Y142**
3000 lb	60"	30"	66½"	30½"	63"	12½"	—	**2TUJ3**
	72"	36"	78"	37"	68"	13"	Jamco	**9LED9**
3600 lb	48"	30"	53"	30"	65"	12"	Little Giant	**19G702**
6 Shelves and Flat Handle								
3000 lb	48"	30"	54"	31"	72"	11"	Jamco	**16A949**

Utility Carts with Lipped and Flush Metal Shelves

The top shelf of these carts has a flush surface, and the other shelves have a short lip on all sides.

Ergonomic Handle 2XJT2

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
2 Shelves and Ergonomic Handle								
1,200 lb	36"	24"	46"	24½"	60"	24¼"	—	**2XJT2**
3,600 lb	48"	24"	51½"	24½"	51½"	26¾"	—	**49Y194**
2 Shelves and Flat Handle								
1,200 lb	24"	18"	30"	18"	35"	25"	—	**19G817**
	32"	18"	38"	24½"	40½"	14"	—	**9CG29**
	36"	24"	42"	24"	35"	25"	—	**8AE95**
	48"	24"	54"	24"	35"	25"	—	**8AE96**
	48"	30"	52½"	30¼"	40½"	26¾"	—	**8D327**
	60"	30"	66½"	30½"	65"	26¾"	—	**8D331**
3,000 lb	30"	24"	36"	24½"	40½"	23¾"	—	**9GUG5**
	36"	24"	42½"	24½"	36"	23¾"	—	**1NFB3**
	48"	30"	52"	30½"	48"	23¾"	—	**1NFB5**
	60"	30"	66½"	30½"	36"	23¾"	—	**1NFB6**
	60"	36"	66½"	36¼"	48"	23¾"	—	**8NJ07**
	72"	24"	78½"	24½"	43½"	23¾"	—	**16C742**
4,800 lb	30"	24"	36"	25"	38"	25"	Jamco	**16C736**
3 Shelves and Flat Handle								
1,200 lb	24"	18"	30"	24½"	36"	11¼"	—	**49Y467**
	48"	24"	52"	24¼"	43½"	12½"	—	**10J381**
3,000 lb	36"	24"	42½"	24½"	48"	12½"	—	**49Y136**
	48"	24"	52"	24½"	39"	12½"	—	**4DKT1**
	48"	30"	52"	30½"	45½"	12½"	—	**49Y138**
	60"	30"	66½"	30½"	48"	12½"	—	**4DKT3**

Utility Carts with Lipped and Single-Side Flush Metal Shelves

The top shelf of these carts is flush on one side and has a short lip on the other three sides. The carts' lower shelves have a short lip on all four sides. All have 2 rigid and 2 swivel casters.

52CL52

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
2 Shelves and Flat Handle							
1,200 lb	48"	24"	54½"	24½"	34"	26¾"	**52CL51**
3 Shelves and Flat Handle							
1,200 lb	36"	24"	42¼"	24¼"	37⅝"	12½"	**52CL52**

2 Shelves w/ Ergonomic Handle 16C059

2 Shelves w/ Flat Handle 2GMH6

Utility Carts with Deep-Lipped Metal Shelves

3 Shelves w/ Flat Handle 16C411

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Lip Height	Brand	Item No.
2 Shelves and Ergonomic Handle									
1,200 lb	30"	18"	36"	19"	35"	16"	6"	Jamco	**16C059**
	30"	18"	36"	19"	35"	22"	3"	Jamco	**16C050**
	30"	24"	36"	25"	35"	16"	6"	Jamco	**16C061**
	48"	24"	54"	25"	35"	16"	6"	Jamco	**16C063**
	48"	24"	54"	25"	35"	22"	3"	Jamco	**16C054**
2,400 lb	36"	18"	42"	19"	35"	22"	3"	Jamco	**16C534**
	48"	24"	54"	25"	35"	22"	3"	Jamco	**16C537**
2 Shelves and Flat Handle									
1,200 lb	30"	18"	36"	24"	36"	18¼"	6"	—	**2GMH7**
	30"	18"	37½"	20"	38"	25½"	3"	—	**2GMH5**
	30"	18"	42"	18½"	47"	16½"	12", 1½"	—	**2GMH9**
	30"	24"	36"	25"	35"	16"	6"	Jamco	**16C443**
	36"	18"	42¼"	18"	36"	24¼"	3"	—	**16D875**
	36"	24"	36"	24½"	34½"	16½"	6"	—	**2GMH8**
	36"	24"	36½"	24¼"	35½"	11¼"	12", 1½"	—	**49Y518**
	36"	24"	36½"	24¼"	39"	20½"	3", 1½"	—	**49Y521**
	36"	24"	42¼"	24¼"	32"	14¾"	6", 1½"	—	**49Y522**
	36"	24⅛"	39½"	24½"	37½"	25½"	3"	—	**2GMH6**
	48"	24"	52"	24½"	32"	17¾"	3", 1½"	—	**49Y528**
	48"	24"	53½"	24"	36"	17"	6", 1½"	Little Giant	**49Y533**
	48"	24"	54"	25"	35"	16"	6"	Jamco	**16C444**
2,000 lb	24"	36"	24"	36"	40"	26½"	3"	Strong Hold	**40V889**
2,400 lb	30"	18"	36"	19"	36"	22"	3"	Jamco	**16C555**
	30"	24"	36"	25"	36"	22"	3"	Jamco	**16C557**
	36"	18"	42"	19"	36"	22"	3"	Jamco	**16C556**
	48"	24"	54"	25"	36"	22"	3"	Jamco	**16C559**
3,600 lb	30"	18"	36"	18½"	39"	22¾"	3"	—	**1MDT1**
	30"	18"	36"	18½"	53"	16½"	12", 1½"	—	**2GMJ1**
	36"	24"	36"	24"	35"	16½"	12"	—	**49Y184**
	36"	24"	38"	24¼"	36"	22¾"	3"	—	**1MDT2**
	36"	24"	42"	24¼"	39"	18¼"	6"	—	**49Y176**
	36"	24"	42¼"	24¼"	35"	16½"	12", 1½"	—	**2GMJ2**
	48"	24"	52"	24½"	34"	22¾"	3"	—	**1MDT3**
	48"	24"	52"	24½"	39"	24¼"	3"	—	**49Y174**
3 Shelves and Flat Handle									
1,200 lb	30"	18"	36"	19"	35"	9"	3"	Jamco	**16C411**
	36"	24"	42"	25"	35"	9"	3"	Jamco	**16C414**
3,600 lb	30"	18"	37"	24"	36"	10"	3"	—	**16C545**

Utility Cart with Lipped Guards & Removable Metal Shelf

This cart has a removable top shelf with a flush surface. The cart's lower shelves have lipped guards on all sides.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1,200 lb	36"	24"	36"	24"	55"	18⅛"	**1DE94**

Find More Utility Cart Option Information on pg. 1144.

Corrosion-Resistant Metal Shelf and Utility Carts

Stainless steel carts resist rusting when used in environments where they will be exposed to frequent cleaning, washdown, or other corrosive materials. They are used in commercial kitchens, food-service facilities, laboratories, medical facilities, cleanrooms, manufacturing plants, marine areas, and similar areas.

Deep Lipped Shelves 16D086

Flush & Single-Sided Flush Shelves 9K653

Lipped Shelves 16C988

Single-Side Flush Shelves 16D065

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Deep Lipped Shelves								
2 Shelves and Ergonomic Handle								
1,200 lb	30 in	18 in	36 in	19 in	35 in	22 in	Jamco	**9NW74**
2 Shelves and Flat Handle								
600 lb	30 in	16 in	36 ½ in	17 in	34 in	11 ¾ in	—	**16D086**
1,200 lb	30 in	18 in	36 in	18 ¼ in	35 in	21 ⅜ in	—	**2LPN8**
	36 in	24 in	41 in	24 in	35 in	22 in	—	**11A470**
	36 in	24 in	42 in	24 ¼ in	35 in	21 ⅜ in	—	**2LPP1**
	36 in	24 in	42 in	25 in	35 in	22 in	Jamco	**8PJF4**
Flush & Single-Sided Flush Shelves								
3 Shelves and No Handle								
1,200 lb	18 in	18 in	19 in	19 in	34 in	11 in	Jamco	**9K653**
Lipped Shelves								
2 Shelves and Ergonomic Handle								
600 lb	36 in	22 in	42 ½ in	22 ½ in	36 ½ in	24 ¾ in	—	**16D069**
1,200 lb	30 in	18 in	36 in	19 in	39 in	25 in	Jamco	**16C988**
	36 in	18 in	42 in	19 in	39 in	25 in	Jamco	**16C989**
	36 in	24 in	42 in	25 in	39 in	25 in	Jamco	**9PMM4**
	48 in	24 in	54 in	25 in	35 in	25 in	Jamco	**8C023**
2 Shelves and Flat Handle								
600 lb	30 in	16 in	36 ½ in	16 ¾ in	34 in	21 ¾ in	—	**16D060**
	36 in	22 in	42 ½ in	22 ½ in	34 in	24 ¾ in	—	**16D061**
1,200 lb	24 in	18 in	29 in	18 in	35 in	25 in	—	**11A454**
	36 in	18 in	41 in	18 in	35 in	25 in	—	**11A458**
	36 in	24 in	41 in	24 in	35 in	25 in	—	**11A460**
	36 in	18 in	42 in	18 ¼ in	35 in	24 ⅛ in	—	**1NFD5**
	36 in	24 in	42 in	24 ¼ in	35 in	24 ⅛ in	—	**1NFD6**
	36 in	24 in	42 in	24 ¼ in	36 in	23 ¾ in	—	**16D011**
	36 in	24 in	42 in	25 in	35 in	25 in	Jamco	**9WHX2**
	48 in	30 in	53 in	30 in	35 in	25 in	—	**11A464**
	48 in	24 in	54 in	24 ¼ in	35 in	24 ⅛ in	—	**1NFD7**
	60 in	30 in	65 in	30 in	35 in	25 in	—	**11A466**
	60 in	30 in	66 in	30 ¼ in	35 in	24 ⅛ in	—	**1NFD9**
3 Shelves and Flat Handle								
1,200 lb	24 in	18 in	29 in	18 in	35 in	12 in	—	**11A455**
	24 in	18 in	30 in	19 in	35 in	11 in	Jamco	**16C937**
	36 in	18 in	42 in	19 in	35 in	11 in	Jamco	**8PA29**
	36 in	24 in	42 in	25 in	35 in	11 in	Jamco	**8NDL6**
	48 in	24 in	54 in	25 in	35 in	11 in	Jamco	**1NFE5**
	48 in	24 in	54 in	25 in	35 in	11 in	Jamco	**9GF45**
	48 in	30 in	54 in	31 in	35 in	11 in	Jamco	**16C938**
4 Shelves and Flat Handle								
1,200 lb	48 in	24 in	54 in	24 ¼ in	53 in	12 ½ in	—	**16C950**
Single-Side Flush Shelves								
2 Shelves and Flat Handle								
600 lb	24 in	16 in	28 in	16 ½ in	34 in	25 in	—	**16D063**
	30 in	16 in	36 ½ in	16 ¾ in	34 in	24 ¾ in	—	**16D064**
	36 in	22 in	42 ½ in	22 ½ in	34 in	24 ¾ in	—	**16D065**
	48 in	22 in	54 ½ in	22 ½ in	34 in	24 ¾ in	—	**16D066**
700 lb	27 in	18 in	35 in	18 ½ in	36 in	17 in	—	**5JNJ8**
1,200 lb	24 in	18 in	30 in	18 ¼ in	35 in	24 ⅛ in	—	**16C971**
	30 in	18 in	36 ½ in	19 in	37 in	26 ⅛ in	—	**8CPJ8**
	36 in	24 in	42 in	24 ¼ in	35 in	24 ⅛ in	—	**16C974**
	48 in	24 in	54 in	24 ¼ in	35 in	24 ⅛ in	—	**16C975**
3 Shelves and Flat Handle								
600 lb	24 in	16 in	30 ½ in	16 ¾ in	34 in	11 ¾ in	—	**16D075**
	24 in	16 in	30 ½ in	17 in	34 in	11 ¾ in	—	**5JNJ5**
	30 in	16 in	36 ½ in	16 ¾ in	34 in	11 ¾ in	—	**16D076**
	36 in	22 in	42 ½ in	22 ½ in	34 in	11 ¾ in	—	**16D077**
	48 in	22 in	54 ½ in	22 ½ in	34 in	11 ¾ in	—	**16D078**
1,200 lb	30 in	18 in	36 in	18 ¼ in	35 in	11 ¼ in	—	**16C996**
	36 in	24 in	42 in	24 ¼ in	35 in	11 ¼ in	—	**16C998**
	48 in	24 in	54 in	25 in	35 in	10 in	Jamco	**16C999**
	48 in	30 in	54 in	31 in	35 in	10 in	Jamco	**16D001**
	60 in	30 in	66 in	30 ¼ in	35 in	11 ¼ in	—	**16D002**

2XJW3

Easy-Access Metal Shelf and Utility Carts

Easy-access metal shelf and utility carts have central pillars that support the top shelf at the front and back of the carts rather than the corners. This lets users load and unload items on the carts' bottom shelf more easily than they could on a cart with four corner supports. The carts have a flush top shelf and lipped bottom shelves.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1,200 lb	24 in	18 in	42 in	18 ½ in	41 in	24 ⅞ in	**2XJW1**
	32 in	18 in	36 in	18 ½ in	41 in	24 ⅞ in	**2XJW2**
	36 in	18 in	42 in	18 ½ in	36 in	24 ⅞ in	**49Y165**
	36 in	24 in	36 in	24 in	35 in	24 ⅞ in	**2XJW3**

16C236

Metal Shelf and Utility Carts with Ventilated Walls

Metal mesh walls surround the top shelf on these carts to provide maximum protection against items falling off the shelf while the carts are moving. The mesh walls also allow air to flow through them for ventilation and let users see items on the shelf. The carts have a lipped bottom shelf.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Item No.
1,400 lb	30 in	18 in	42 in	24 ½ in	37 ½ in	14 in	**16C236**
	30 in	24 in	36 in	24 ½ in	37 ½ in	14 in	**16C238**
3,600 lb	48 in	24 in	52 in	24 ½ in	39 ½ in	14 in	**16C245**

Perforated Shelves
19C138

Corrosion-Resistant Slotted Shelves
12G993

LITTLE GIANT

Flow-Through Metal Shelf and Utility Carts

These flow-through utility carts have metal shelves with openings that let debris and liquid fall through them, which helps keep the carts clean when used in dirty or wet areas. **Perforated** shelves have small holes. **Slotted** shelves have long vertical openings.

No. of Shelves	Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Perforated Lipped Shelves									
2	1,000 lb	36 in	24 in	42 ¼ in	24 ¼ in	34 ½ in	18 ⅛ in	—	**19C185**
	1,000 lb	48 in	24 in	52 in	24 ½ in	30 ½ in	18 ⅛ in	—	**19C186**
	1,200 lb	36 in	24 in	42 ¼ in	24 ¼ in	35 ⅛ in	24 ¼ in	—	**19G831**
	1,200 lb	36 in	24 in	42 ¼ in	24 ¼ in	32 ½ in	18 ⅛ in	—	**19G878**
3	1,200 lb	60 in	30 in	66 ¼ in	30 ¼ in	63 in	24 ⅝ in	—	**19C135**
4	1,600 lb	60 in	30 in	65 ½ in	30 in	63 in	16 in	Little Giant	**19C137**
5	2,000 lb	48 in	24 in	52 in	24 ½ in	63 in	11 ⅜ in	—	**19C138**
	2,000 lb	60 in	30 in	65 ½ in	30 in	63 in	11 ½ in	Little Giant	**19C139**
Corrosion-Resistant Slotted Flush Shelves									
2	600 lb	41 in	19 in	47 in	19 in	47 ½ in	29 in	—	**414X83**
	1,000 lb	41 in	19 in	48 in	19 in	42 in	20 in	—	**12G993**

Easy Access & Load w/ Tube Frame
16C390

Lipped & Flush Shelves w/ Raised Handle
16C842

Lipped Shelves w/ Raised Handle
49Y596

Jamco carts

Low-Profile Metal Shelf and Utility Carts

The top shelf on these carts is set at a lower height than other styles of metal shelf and utility carts. This reduces how far bulky or heavy items must be lifted when loading them onto the top shelf. **Easy access and load** carts have two rear corner posts and a front central pillar that support the carts' top shelf and reduce obstructions when moving items onto or off of the carts. They also have flush tube shelves that let items slide onto or off of the shelves and allow dirt and debris to fall through the spaces between the tubes.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Easy Access & Load Carts with Tube Frame								
2 Shelves and Raised Handle								
1,400 lb	36 in	18 in	42 ½ in	24 ½ in	39 in	17 ⅜ in	—	**16C390**
	36 in	24 in	42 ½ in	24 ½ in	36 in	17 ⅜ in	—	**9AKU3**
	48 in	18 in	52 in	24 ½ in	35 ½ in	17 ⅜ in	—	**16C391**
	48 in	24 in	54 ½ in	24 ½ in	36 in	17 ⅜ in	—	**8DLD3**
Lipped & Flush Shelves								
2 Shelves and Raised Handle								
1,200 lb	24 in	18 in	43 in	25 ½ in	34 in	13 ⅛ in	—	**49Y588**
	30 in	18 in	36 ½ in	18 ¼ in	40 11/16 in	20 in	—	**16C180**
	30 in	24 in	31 in	25 in	37 in	17 in	Jamco	**8EN38**
	32 in	18 in	43 in	25 ½ in	34 in	13 ⅛ in	—	**10F443**
	36 in	18 in	36 in	23 in	40 ½ in	20 in	—	**16C181**
	36 in	24 in	39 in	25 ½ in	34 in	16 ¾ in	—	**16C804**
	36 in	24 in	40 in	24 in	36 in	17 in	—	**10F444**
	36 in	24 in	43 in	25 ½ in	31 in	16 ¾ in	—	**4YW64**
	36 in	24 in	43 in	25 ½ in	35 ½ in	16 ¾ in	—	**4YW68**
	36 in	24 in	44 in	25 ½ in	35 ½ in	20 in	—	**16C182**
	48 in	24 in	52 in	26 in	39 in	13 ⅛ in	—	**10F445**
	48 in	24 in	52 in	30 ½ in	34 ½ in	16 ¾ in	—	**16C805**
	48 in	30 in	51 in	30 ¼ in	36 in	13 ⅛ in	—	**10F446**
	60 in	24 in	66 in	25 in	43 in	17 in	Jamco	**16C806**
	60 in	30 in	66 ½ in	30 ½ in	38 in	13 ⅛ in	—	**10F447**
1,400 lb	30 in	18 in	43 in	25 ½ in	35 ½ in	16 ¾ in	—	**8EK82**
	36 in	24 in	43 in	25 ½ in	35 ½ in	16 ¾ in	—	**8WC16**
	36 in	30 in	48 in	30 ½ in	34 ½ in	16 ¾ in	—	**16C770**
	48 in	24 in	52 in	26 in	39 in	16 ¾ in	—	**16C787**
	48 in	30 in	52 in	30 ¼ in	31 in	16 ¾ in	—	**4YW73**
	72 in	30 in	78 ½ in	30 ½ in	34 in	16 ¾ in	—	**16C773**
2,400 lb	30 in	24 in	36 in	25 in	40 in	17 in	Jamco	**16C835**
	36 in	30 in	42 in	31 in	40 in	17 in	Jamco	**16C840**
	48 in	24 in	54 in	25 in	40 in	17 in	Jamco	**16C837**
	48 in	30 in	54 in	31 in	40 in	17 in	Jamco	**16C841**
	60 in	30 in	66 in	31 in	40 in	17 in	Jamco	**16C842**
4,800 lb	30 in	24 in	36 in	25 in	42 in	17 in	Jamco	**16C824**
	48 in	36 in	54 in	37 in	42 in	17 in	Jamco	**16C833**
3 Shelves and Raised Handle								
1,400 lb	36 in	24 in	43 in	25 ½ in	39 ⅝ in	7 ⅝ in	—	**4DKP9**
4,800 lb	60 in	30 in	66 ½ in	30 ½ in	40 in	9 ⅛ in	—	**4DKT7**
Lipped Shelves								
2 Shelves and Raised Handle								
1,200 lb	24 in	18 in	43 in	25 ½ in	34 in	13 ¼ in	—	**49Y595**
	32 in	18 in	39 in	30 ½ in	40 in	13 ¼ in	—	**10F448**
	36 in	24 in	39 in	30 ½ in	40 in	16 ¾ in	—	**49Y596**
	48 in	24 in	54 ½ in	30 ½ in	30 in	13 ¼ in	—	**10F450**
	48 in	30 in	54 ½ in	30 ½ in	39 in	13 ¼ in	—	**10F451**
	60 in	30 in	66 ½ in	30 ½ in	38 in	13 ¼ in	—	**10F452**
	60 in	30 in	66 ½ in	30 ½ in	36 in	16 ¾ in	—	**49Y171**

Find More Utility Cart Option Information on pg. 1144.

Deep Lipped Shelves w/ Flat Handle 49Y526

Lipped Shelves w/ Flat Handle 49Y480

Order-Picking Metal Shelf and Utility Carts

The flat surface near the handle of these carts holds documents for note-taking, inventory, and similar tasks. Order-picking utility carts are used in settings such as manufacturing plants, stock rooms, warehouses, and distribution centers.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Deep Lipped Shelves								
2 Shelves and Flat Handle								
3,600 lb	48 in	24 in	64 in	24 in	42 ½ in	15 ½ in	Little Giant	**49Y526**
	48 in	24 in	64 in	24 in	42 ½ in	16 ½ in	Little Giant	**49Y532**
Flush Shelves								
5 Shelves and Flat Handle								
3,600 lb	36 in	24 in	52 in	24 in	63 ½ in	12 in	Little Giant	**19G704**
	48 in	24 in	64 in	24 in	63 ½ in	12 in	Little Giant	**19G705**
Lipped & Flush Shelves								
2 Shelves and Flat Handle								
1,200 lb	32 in	18 in	48 ½ in	18 ¼ in	40 ¼ in	24 ⅛ in	—	**19G827**
	48 in	24 in	64 ½ in	24 ¼ in	40 ¼ in	24 ⅛ in	—	**8AHD3**
3 Shelves and Flat Handle								
1,200 lb	32 in	18 in	48 in	18 in	40 in	11 ¾ in	Little Giant	**19G677**
	48 in	24 in	54 ½ in	30 ½ in	39 in	11 ¼ in	—	**49Y472**
Lipped Shelves								
2 Shelves and Flat Handle								
1,200 lb	36 in	18 in	51 ¼ in	18 ¼ in	40 ¹¹⁄₁₆ in	26 ¾ in	—	**16D880**
	36 in	24 in	54 ½ in	24 ¼ in	40 ¹¹⁄₁₆ in	26 ¾ in	—	**49Y144**
	36 in	24 in	54 ½ in	30 ½ in	48 in	24 ⅛ in	—	**8WPP2**
	36 in	24 in	54 ½ in	30 ½ in	56 in	24 ⅛ in	—	**8XAF3**
	36 in	24 in	64 in	24 in	39 in	18 in	Little Giant	**49Y558**
	36 in	30 in	51 in	31 in	39 in	25 in	Jamco	**16C798**
	48 in	24 in	63 in	30 ½ in	36 in	26 ¾ in	—	**49Y145**
	48 in	24 in	64 in	24 in	39 in	18 in	Little Giant	**49Y562**
	48 in	30 in	63 in	31 in	39 in	25 in	Jamco	**8ELY3**
	60 in	30 in	75 ¼ in	30 ¼ in	40 ¹¹⁄₁₆ in	26 ¾ in	—	**16D883**
3,600 lb	36 in	24 in	39 in	30 ½ in	44 in	21 ⅝ in	—	**49Y520**
3 Shelves and Flat Handle								
1,200 lb	30 in	18 in	45 in	19 in	39 in	12 in	Jamco	**16C416**
	32 in	18 in	39 in	30 ½ in	41 in	11 ¼ in	—	**49Y476**
	36 in	24 in	54 ½ in	30 ½ in	45 in	12 ⅝ in	—	**49Y147**
	48 in	24 in	51 in	30 ½ in	36 in	12 ⅝ in	—	**49Y148**
	48 in	24 in	64 in	24 in	40 in	12 in	Little Giant	**49Y480**
	48 in	30 in	52 in	30 ½ in	41 in	12 ⅝ in	—	**16C425**
	48 in	30 in	63 in	31 in	39 in	12 in	Jamco	**16C422**
3,000 lb	36 in	24 in	51 ¼ in	18 ¼ in	40 ¹¹⁄₁₆ in	17 ⅛ in	—	**8EP55**
	48 in	30 in	87 ½ in	30 ½ in	41 in	17 ⅛ in	—	**16A953**
	60 in	24 in	63 in	30 ½ in	36 in	17 ⅛ in	—	**8TY70**
3,600 lb	60 in	30 in	78 ½ in	30 ½ in	43 ½ in	17 ⅛ in	—	**19G686**
4 Shelves and Flat Handle								
3,000 lb	36 in	24 in	51 in	30 ½ in	60 in	14 ¾ in	—	**16C002**
	48 in	24 in	63 in	30 ½ in	37 ½ in	14 ¾ in	—	**16C003**
	48 in	30 in	54 ½ in	30 ½ in	36 in	14 ¾ in	—	**16C007**
3,600 lb	48 in	24 in	64 in	24 in	65 in	16 ½ in	Little Giant	**19G692**
	60 in	30 in	66 ½ in	30 ½ in	45 ½ in	16 ½ in	—	**19G694**
5 Shelves and Flat Handle								
3,000 lb	48 in	24 in	54 in	25 in	68 in	13 in	Jamco	**16C079**
	72 in	24 in	78 ½ in	24 ½ in	63 in	12 ⅝ in	—	**16C081**

Flush Shelves w/ Flat Handle 49Y608

Lipped Shelves w/ Flat Handle 49Y566

Low-Profile w/ Flush Shelves & Raised Handle 16A867

Metal Shelf and Utility Carts for Instruments

The shock-absorbing casters and cushioned shelf matting on these carts absorb shock and vibration, which helps protect instruments and delicate, vibration-sensitive equipment on the carts from damage when moving them in laboratories, testing facilities, and similar areas. The matting also has a nonslip surface that stops items from sliding on the shelves and colliding with each other. Also known as instrument carts. **Low-profile** carts have a top shelf that is set at a lower height than other carts to reduce how far bulky or heavy items must be lifted when loading them onto the top shelf.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Flush Shelves								
2 Shelves and Flat Handle								
1,000 lb	36 in	24 in	42 ¾ in	25 ¼ in	34 in	18 ¹⁵⁄₁₆ in	—	**49Y610** *
	36 in	24 in	42 ¾ in	25 ¼ in	35 ½ in	20 ⅝ in	—	**20HK74**
	36 in	24 in	48 in	30 ½ in	39 ½ in	14 ⅜ in	—	**49Y603**
	36 in	24 in	66 ½ in	30 ½ in	39 in	14 ⅜ in	—	**49Y605**
	36 in	24 in	66 ½ in	36 ½ in	36 in	18 ⅞ in	—	**49Y609**
	36 in	24 in	66 ½ in	36 ½ in	48 in	25 ¼ in	—	**49Y608**
	36 in	24 in	75 in	36 ½ in	40 in	18 ⅞ in	—	**49Y607**
1,200 lb	30 in	18 in	36 ¼ in	18 ¼ in	34 in	21 ⅛ in	—	**16A804**
	36 in	24 in	66 ½ in	30 ½ in	41 in	21 ⅛ in	—	**49Y550**
	36 in	24 in	66 ½ in	30 ½ in	68 in	21 ⅝ in	—	**16C856**
	36 in	24 in	66 ½ in	36 ½ in	43 ½ in	20 ⅜ in	—	**49Y232**
	48 in	24 in	53 ½ in	24 in	38 in	19 ½ in	Little Giant	**49Y544**
	48 in	30 in	53 ½ in	30 in	38 in	19 ½ in	Little Giant	**49Y548**
2 Shelves and No Handle Handle								
1,200 lb	36 in	30 in	66 in	30 ½ in	35 in	21 ⅛ in	—	**16A861**
3 Shelves and Flat Handle								
1,200 lb	36 in	24 in	66 ½ in	30 ½ in	48 in	15 ⅛ in	—	**49Y456**
Lipped Shelves								
2 Shelves and Flat Handle								
1,200 lb	36 in	24 in	41 ½ in	24 in	34 in	18 in	Little Giant	**49Y566**
	36 in	24 in	78 ½ in	36 ½ in	56 in	18 ¼ in	—	**49Y557**
	48 in	24 in	53 ½ in	24 in	34 in	18 in	Little Giant	**49Y568**
	48 in	24 in	72 in	36 ½ in	36 in	18 ¼ in	—	**49Y561**
3 Shelves and Flat Handle								
1,200 lb	36 in	24 in	42 ¼ in	24 ¼ in	45 ⅛ in	21 ⅛ in	—	**4YW83**
	36 in	24 in	48 in	36 ½ in	37 ½ in	14 ⅜ in	—	**49Y462**
Low-Profile with Flush Shelves								
2 Shelves and Raised Handle								
1,200 lb	30 in	18 in	63 ½ in	30 ½ in	41 in	16 ¾ in	—	**16A867**
	36 in	24 in	63 ½ in	30 ½ in	51 ½ in	16 ¾ in	—	**16A869**
Low-Profile with Lipped & Flush Shelves								
1,200 lb	36 in	24 in	66 ½ in	30 ½ in	39 in	16 ¾ in	—	**4YW79**
	36 in	24 in	66 ½ in	30 ½ in	66 ½ in	16 ¾ in	—	**8RRM5**
	48 in	24 in	54 ½ in	24 ½ in	34 in	16 ¾ in	—	**8Z416**
	48 in	24 in	66 ½ in	30 ½ in	36 in	16 ¾ in	—	**4YW80**
	48 in	30 in	55 in	30 ¼ in	34 in	16 ¾ in	—	**4YW81**
	48 in	30 in	66 ½ in	30 ½ in	36 in	16 ¾ in	—	**49Y594**
	60 in	30 in	66 ½ in	30 ½ in	38 in	16 ¾ in	—	**8Y153**
Low-Profile with Lipped Shelves								
1,200 lb	36 in	24 in	66 ½ in	30 ½ in	38 in	16 ¾ in	—	**49Y597**

** 4 swivel casters.*

Lipped Shelves w/ 2 U-Shaped Handles 4EY10

Flush Shelves w/ 2 U-Shaped Handles 4ZD40

Corrosion-Resistant Lipped Shelves w/ Raised Handle 459V60

Vertical-Access Metal Shelf and Utility Carts

The built-in ladder on these carts can be used for reaching high areas in warehouses, stock rooms, and similar locations. Also known as stock-picker trucks or ladder trucks, vertical-access carts save workers from having to carry or move a separate ladder for their work. The ladder has a spring-loaded mechanism that prevents the cart or ladder from moving when a worker is on the ladder. This mechanism also raises the ladder and allows the cart to roll when the ladder is not in use.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
Lipped Shelves								
2 Shelves and (2) U-Shaped Handle								
1,000 lb	35 ⅝ in	21 ⅝ in	40 in	22 in	50 ½ in	28 in	—	**4ZD41**
	47 ⅝ in	27 ⅝ in	52 in	28 in	50 ½ in	28 in	Vestil	**4ZD43**
3 Shelves and (2) U-Shaped Handle								
1,000 lb	35 ¾ in	21 ⅝ in	40 in	22 in	50 ½ in	13 ½ in	—	**4ZD44**
	50 ¾ in	27 ½ in	56 ½ in	28 in	73 ½ in	27 in	—	**4EY10**
Flush Shelves								
2 Shelves and (2) U-Shaped Handle								
440 lb	41 in	20 ½ in	41 ½ in	20 ½ in	41 in	28 ¼ in	—	**4ZD40**
Corrosion-Resistant Lipped Shelves								
2 Shelves and Raised Handle								
800 lb	35 in, 36 in, 41 in	22 in	51 ½ in	22 in	69 ½ in	12 ¹¹⁄₁₆ in	—	**459V61**
	36 in, 41 in	22 in	51 ½ in	22 in	69 ½ in	12 ⅝ in	—	**459V60**
3 Shelves and (2) U-Shaped Handle								
660 lb	35 ⅝ in	21 ⅝ in	40 in	22 in	50 ½ in	13 ½ in	—	**4EU98**

Find More Utility Cart Option Information on pg. 1144.

METRO

Mobile Wire Shelving

- Shipped unassembled
- 4 adjustable shelves

Overall W	Overall D	Overall H	Brand	CHROME PLATED Item No.	ZINC PLATED Item No.	BLACK POWDER COATED Item No.	WHITE POWDER COATED Item No.
Mobile Wire Shelving for Dry Use							
600-lb. Load Capacity; (2) Swivel, (2) Swivel with Brakes Casters							
18 in	48 in	69 in	—	1ECH6	—	—	—
24 in	48 in	69 in	—	1ECH9	—	—	—
	60 in	69 in	—	1ECJ1	—	—	—
36 in	18 in	68 in	—	3TPA3	3TPC2	3TPD3	3TPE4
	24 in	68 in	—	3TPV6	3TPC5	3TPD6	3TPE7
38 in	20 ¼ in	67 ½ in	Metro	45TY48	—	—	—
48 in	18 in	68 in	—	3TPA4	3TPC3	3TPD4	3TPE5
	24 in	68 in	—	3TPA5	3TPC6	3TPD7	3TPE8
50 in	20 ¼ in	67 ½ in	Metro	45TY47	—	—	—
60 in	18 in	68 in	—	3TPV5	3TPC4	3TPD5	3TPE6
	24 in	68 in	—	3TPA6	3TPC7	3TPD8	3TPE9
900-lb. Load Capacity; (4) Swivel Casters							
48 in	24 in	72 in	Metro	45TY54	—	—	—
60 in	18 in	72 in	Metro	45TY50	—	—	—
72 in	18 in	72 in	Metro	45TY49	—	—	—
	24 in	67 ⅞ in	Metro	45TY53	—	—	—
1200-lb. Load Capacity; (4) Swivel Casters							
36 in	18 in	70 in	—	2HDE5	2HDG7	2HDJ9	—
	24 in	70 in	—	2HDE9	—	2HDK4	—
48 in	18 in	70 in	—	2HDE6	—	—	—
	24 in	70 in	—	2HDF1	2HDH3	2HDK5	—
60 in	18 in	70 in	—	2HDE7	—	—	—
	24 in	70 in	—	2HDF2	—	2HDK6	—
72 in	18 in	70 in	—	2HDE8	—	—	—
	24 in	70 in	—	2HDF3	2HDH5	2HDK7	—

Chrome-Plated
3TPA6

Black Powder-Coated
2HDK7

Overall W	Overall D	Overall H	Brand	STAINLESS STEEL Item No.
Corrosion-Resistant Mobile Wire Shelving for Harsh Environments				
1200-lb. Load Capacity; (4) Swivel Casters				
36 in	18 in	69 in	—	45TW17
	24 in	69 in	—	45TW20
48 in	18 in	69 in	—	45TW18
	24 in	69 in	—	45TW21
60 in	18 in	69 in	—	45TW19
	24 in	69 in	—	45TW22

Load Capacity	Overall L	Overall W	Overall H	Brand	CHROME Item No.	ZINC PLATED Item No.	BLACK POWDER COATED Item No.
Deep & Shallow Lipped Shelves							
2 Shelves and (2) Raised Handles							
375 lb	36 in	18 in	38 in	Metro	45TY52 *	—	—
Deep Lipped Shelves							
2 Shelves and (2) Raised Handles							
375 lb	36 in	18 in	38 in	Metro	45TY51 *	—	—
800 lb	36 in	18 in	39 in	Metro	8PER9	—	—
Shallow Lipped Shelves							
2 Shelves and (2) Raised Handles							
350 lb	41 in	18 in	39 in	—	3TNZ8 *	3TPA7 *	3TPC8 *
	41 in	24 in	39 in	—	3TPA1 *	—	3TPD1 *
	53 in	18 in	39 in	—	3TNZ9 *	—	3TPC9 *
	53 in	24 in	39 in	—	3TPA2 *	—	3TPD2 *
375 lb	26 in	18 in	38 in	Metro	20W640	—	—
	38 in	21 in	39 in	Metro	20W645	—	—
	38 in	24 in	39 in	Metro	20W647	—	—
400 lb	36 in	18 in	40 in	—	—	16A689	—
600 lb	30 in	18 in	39 in	Metro	2KTE1	—	—
	30 in	24 in	39 in	Metro	2KTE3	—	—
	36 in	18 in	39 in	Metro	4W648	—	—
	36 in	24 in	39 in	Metro	4W650	—	—
	37 in	18 in	39 in	—	1ECJ2	—	2HDN6 *
	37 in	24 in	39 in	—	1ECJ4	—	2HDN8 †
	48 in	18 in	39 in	Metro	4W649	—	—
	48 in	24 in	39 in	Metro	4W651	—	—
	49 in	18 in	39 in	—	1ECJ3	—	2HDN7 †
	49 in	24 in	39 in	—	1ECJ5	—	2HDN9 †
	54 in	18 in	39 in	Metro	2KTE2	—	—
	54 in	24 in	39 in	Metro	2KTE4	—	—
	60 in	24 in	39 in	Metro	8Z509	—	—
2 Shelves and No Handle							
900 lb	36 in	24 in	39 in	Metro	3JHN7	—	—
3 Shelves and (2) Raised Handles							
375 lb	38 in	18 in	38 in	Metro	20W652	—	—
	38 in	21 in	39 in	Metro	20W653	—	—
	38 in	24 in	39 in	Metro	20W655	—	—
400 lb	48 in	24 in	40 in	—	—	16A688	—
600 lb	36 in	18 in	39 in	Metro	3JKY6	—	—
Heavy-Duty with Flush Shelves							
2 Shelves and (2) Raised Handles							
800 lb	39 ½ in	18 in	42 in	—	2HDD2	—	2HDH6
	39 ½ in	24 in	42 in	—	2HDD5	2HDF7	2HDH9
	51 ½ in	18 in	42 in	—	2HDD3	—	2HDH7
	51 ½ in	24 in	42 in	—	2HDD6	2HDF8	2HDJ1
	63 ½ in	24 in	42 in	—	2HDD7	—	2HDJ2
3 Shelves and (2) Raised Handles							
1,200 lb	63 ½ in	24 in	42 in	—	—	—	2HDJ8
800 lb	39 ½ in	18 in	42 in	—	2HDD8	—	2HDJ3
	39 ½ in	24 in	42 in	—	2HDE2	2HDG4	—
	51 ½ in	18 in	42 in	—	2HDD9	—	—
	51 ½ in	24 in	42 in	—	2HDE3	—	2HDJ7

** 2 swivel casters, 2 swivel casters with brake.*
† 2 swivel casters with brake, 2 rigid casters.

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We put space to work.

Wire Shelf and Utility Carts

Wire shelves let dust and debris fall through and away from them, which helps keep them clean. Air can circulate through the shelves for ventilation, and users can see through the shelves to view their contents. All carts have four swivel casters, except as noted. **Heavy-duty** shelves are supported by square corner posts and can hold more weight than shelves that are supported with round corner posts.

Deep & Shallow Lipped Shelves, Chrome
45TY52

Deep Lipped, Chrome
45TY51

Shallow Lipped, Chrome
3JKY6

Heavy-Duty w/ Flush, Black
2HDJ3

2 Shelves, Stainless Steel 45TW16

3 Shelves, Chrome 20W636

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Corrosion-Resistant Wire Shelf and Utility Carts

These carts are made from stainless steel or a combination of stainless steel and chrome. They resist rusting when used in areas where they will be exposed to frequent cleaning, washdown, or other corrosive materials. The carts have wire shelves with a shallow lip and do not require objects to be lifted very far to put them onto or take them off of the shelves. The shelves' height can be adjusted in 1" increments to accommodate different sizes of items. All have 4 swivel casters, except as noted.

Load Capacity	Overall L	Overall W	Overall H	Finish	Brand	Item No.
2 Shelves and (2) Raised Handles						
375 lb	26 in	18 in	38 in	Stainless Steel	Metro	**20W641**
	37 ½ in	20 in	38 in	Stainless Steel	Metro	**6GJY3**
1,200 lb	36 in	18 in	37 ½ in	Stainless Steel	Quantum	**45TW13** *
	36 in	24 in	37 ½ in	Stainless Steel	Quantum	**45TW15** *
	48 in	18 in	37 ½ in	Stainless Steel	Quantum	**45TW14** *
	48 in	24 in	37 ½ in	Stainless Steel	Quantum	**45TW16** *
3 Shelves and (2) Raised Handles						
375 lb	26 in	18 in	38 in	Stainless Steel	Metro	**20W649**
	32 in	18 in	38 in	Stainless Steel	Metro	**20W651**
	32 in	18 in	38 in	Chrome	Metro	**20W636**
	37 ½ in	26 in	39 in	Stainless Steel	Metro	**6GJY6**
	38 in	18 in	38 in	Chrome	Metro	**20W637**
	38 in	21 in	39 in	Chrome	Metro	**20W638**

** (2) swivel casters, (2) swivel casters w/ brake.*

33Y360

33Y379

Wire Shelf and Utility Cart Covers

Covers fit over carts to protect their contents from dust and other airborne particles. They also conceal the carts' contents to maintain an attractive appearance and deter theft or tampering. **Hook-and-loop** closure fastens and unfastens quickly. **Zipper** closure is more secure than hook-and-loop closure. **Blue nylon** covers are made from waterproof, fire-retardant vinyl-coated nylon fabric, which resists tearing, mildew, and odors. **White vinyl** covers resist tears and are antimicrobial, which means they inhibit the growth of bacteria and other organisms that can cause odors and stains.

Overall Length	Overall Width	Overall Height	BLUE NYLON Item No.	WHITE VINYL Item No.
Hook-and-Loop Closure				
48 in	18 in	54 in	**33Y355**	**33Y371**
		62 in	**33Y356**	**33Y372**
		74 in	**33Y357**	**33Y373**
		86 in	**33Y358**	**33Y374**
	24 in	54 in	**33Y359**	**33Y375**
		62 in	**33Y360**	**33Y376**
		74 in	**33Y361**	**33Y377**
		86 in	**33Y362**	**33Y378**

Overall Length	Overall Width	Overall Height	BLUE NYLON Item No.	WHITE VINYL Item No.
Zipper Closure				
48 in	18 in	54 in	**33Y363**	**33Y379**
		62 in	**33Y364**	**33Y380**
		74 in	**33Y365**	**33Y381**
		86 in	**33Y366**	**33Y382**
	24 in	54 in	**33Y367**	**33Y383**
		62 in	**33Y368**	**33Y384**
		74 in	**33Y369**	**33Y385**
		86 in	**33Y370**	**33Y386**

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Wire Shelf and Utility Carts with Angled Shelves

1EVG6

Angled wire shelves make it easier to see items on the shelves than on flat shelves. Gravity moves items at the back of the shelves forward when items at the front of the shelves are removed. The shelves have a short lip on one side and a tall lip on the other side that prevent items from falling off. The shelves can be reversed to put either the short or tall lip at the front. Shelf height can be adjusted in 1" increments to fit different sizes of items. All have four shelves and four swivel casters (two of the casters have brakes).

Load Capacity	Overall L	Overall W	Overall H	Finish	Brand	Item No.
300 lb	36 in	18 ½ in	68 in	Zinc Plated	—	**1EVG4**
	60 in	18 ½ in	68 in	Zinc Plated	—	**1EVG6**
600 lb	48 in	18 in	78 in	Chrome	Metro	**45TY55**

Wire Shelf and Utility Cart with Removable Basket Shelves

This cart has two removable wire baskets that sit on the cart's shelves and hold loose items. The cart's shelves have a short lip that stops the baskets from sliding off. A hanger rod holds clothing or other hanging items. Shelf height can be adjusted in 1" increments to accommodate different sizes of items. Cart has two swivel and two rigid casters.

Load Capacity	Overall L	Overall W	Overall H	Item No.
300 lb	36 in	18 in	41 in	**16A710**

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Quick-Release Super Adjustable Carts

Quick Release

- 4-shelves
- Shipped unassembled
- 600-lb. load capacity
- 4 swivel casters (2 with brake)

Choose from carts with four quick-release shelves or two quick-release shelves and two standard adjustable shelves.

Overall Width	Overall Depth	Overall Height	Item No.
4-Shelf Cart with 2-Quick Adjust Shelves			
36 in	18 in	67 ⅞ in	**2EWR4**
	24 in	67 ⅞ in	**2EWT1**
48 in	18 in	67 ⅞ in	**2EWR6**
	24 in	67 ⅞ in	**2EWT3**
60 in	18 in	67 ⅞ in	**2EWR8**
	24 in	67 ⅞ in	**2EWT5**
4-Shelf Cart with 4-Quick Adjust Shelves			
36 in	18 in	67 ⅞ in	**2EWR3**
	24 in	67 ⅞ in	**2EWR9**
48 in	18 in	67 ⅞ in	**2EWR5**
	24 in	67 ⅞ in	**2EWT2**
60 in	18 in	67 ⅞ in	**2EWR7**
	24 in	67 ⅞ in	**2EWT4**

2EWR3

Adjustable Shelves 16A690

Removable Shelves 49VU09

Wire Security Carts

Wire security carts are rolling wire cages with doors that lock for secure storage. They are lighter and allow users to see items on the carts more easily than welded mesh security carts. The wire mesh walls and doors let air circulate through the carts and allow dirt and dust to fall through them, which helps keep them clean.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
Fixed Shelves								
5 in-dia. Polypropylene Wheels, (2) Rigid, (2) Swivel								
900 lb	60 in	24 in	64 in	28 ½ in	68 in	2	—	**1ECH1**
1,800 lb	48 ½ in	24 in	48 ½ in	24 in	71 in	1	—	**1ECG6**
Adjustable Shelves								
5 in-dia. Polyurethane Wheels, (2) Swivel, (2) Swivel with Brake								
900 lb	41 in	22 in	41 in	22 in	68 in	0	Metro	**20W743**
	36 in	30 in	41 in	33 ½ in	68 ½ in	—	Metro	**2HEF7**
	48 in	24 in	50 ½ in	28 in	68 ½ in	0	Metro	**20W750**
	60 in	24 in	63 ½ in	28 in	68 ½ in	0	Metro	**20W751**
	60 in	30 in	65 in	33 ½ in	68 ½ in	2	Metro	**2HEF9**
5 in-dia. Polyurethane Wheels, (4) Swivel								
900 lb	36 in	24 in	41 in	27 ½ in	68 in	2	Metro	**3W570**
	48 in	24 in	53 in	27 ½ in	68 in	2	Metro	**3W571**
	60 in	24 in	65 in	27 ½ in	68 ½ in	0	Metro	**4ZJ44**
5 in-dia. Thermoplastic Rubber Wheels, (4) Swivel								
1,000 lb	48 in	24 in	52 in	27 in	69 in	4	—	**16A690**
Removable Shelves								
6 in-dia. Nylon Wheels, (2) Rigid, (2) Swivel with Brake								
1,500 lb	30 in	24 ½ in	63 ½ in	34 in	58 in	4	Sumner	**49VU08**
6 in-dia. Nylon Wheels, (2) Swivel, (2) Swivel with Brake								
1,500 lb	30 in	24 ½ in	34 in	31 ½ in	58 in	4	Sumner	**49VU10**
	30 in	24 ½ in	51 ½ in	34 in	58 in	4	Sumner	**49VU09**

8FCF7

Dual-Latch Welded Mesh Security Carts

The two latches on these carts can be locked with a padlock or other locking device to secure the carts' contents. The carts' doors and/or walls are made from welded steel mesh and have small openings that let air circulate through them and keep the carts' contents visible. The carts' fixed shelves are welded in place and cannot be moved. All carts have two swivel and two rigid casters.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
6 in-dia. Phenolic Wheels								
2,000 lb	48 in	24 in	54 ½ in	26 in	56 ½ in	4	—	**16C899**
	48 in	30 in	54 ½ in	32 in	56 ½ in	1	—	**1TGU7**
	48 in	36 in	40 in	54 in	57 in	1	Jamco	**9LEW8**
	60 in	24 in	66 ½ in	26 in	56 ½ in	4	—	**16C901**
	60 in	24 in	66 in	28 in	57 in	1	Jamco	**8ZMD9**
	60 in	30 in	66 ½ in	32 in	56 ½ in	1	—	**1TGU8**
	60 in	30 in	66 ½ in	32 in	56 ½ in	4	—	**16C903**
	60 in	36 in	66 ½ in	38 in	56 ½ in	4	—	**16C905**
3,000 lb	48 in	36 in	54 in	40 in	57 in	3	Jamco	**8FCF7**
	60 in	24 in	66 in	28 in	57 in	2	Jamco	**8FCE6**
6 in-dia. Polyurethane Wheels								
2,000 lb	36 in	72 in	78 ½ in	38 in	56 ½ in	2	—	**8RH84**
	48 in	24 in	54 ½ in	26 in	56 ½ in	2	—	**9WMJ8**
	48 in	24 in	54 ½ in	26 in	56 ½ in	3	—	**8RWG7**
10 in-dia. Rubber Wheels								
1,500 lb	48 in	24 in	49 in	27 in	60 in	1	Little Giant	**49Y680**
	48 in	24 in	49 in	27 in	60 in	2	Little Giant	**49Y674**
	48 in	24 in	49 in	27 in	60 in	3	Little Giant	**49Y671**
	48 in	30 in	49 in	33 in	60 in	2	Little Giant	**49Y676**
	48 in	30 in	49 in	33 in	60 in	3	Little Giant	**49Y673**
	60 in	24 in	61 in	27 in	60 in	1	Little Giant	**49Y681**
	60 in	24 in	61 in	27 in	60 in	2	Little Giant	**49Y675**
	60 in	24 in	61 in	27 in	60 in	3	Little Giant	**49Y672**

Find More Utility Cart Option Information on pg. 1144.

Louvered Panels 5LVF6

Adjustable Shelves 8EHF0

Welded Mesh Security Carts

The welded steel mesh doors and/or walls on these carts have small openings that let air circulate through them and keep items on the carts visible. The carts' doors have a latch or hasp that can be locked with a padlock or other locking device to secure the carts' contents. All carts have two swivel and two rigid casters. **Louvered panels** hold compatible bins for organizing and storing small parts.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
Adjustable Shelves								
6 in-dia. Polyurethane Wheels								
2,000 lb	57 ⅞ in	26 ⅞ in	66 ½ in	32 in	56 ½ in	1	—	**8EHF0**
6 in-dia. Phenolic Wheels								
2,000 lb	45 ⅞ in	20 ⅞ in	54 ½ in	26 in	56 ½ in	2	—	**9WHD0**
	57 ⅞ in	20 ⅞ in	66 ½ in	26 in	56 ½ in	2	—	**8RRU5**
	57 ⅞ in	26 ⅞ in	66 ½ in	32 in	56 ½ in	2	Durham Mfg	**8EKJ9**
10 in-dia. Rubber Wheels								
1,500 lb	48 in	24 in	49 in	27 in	60 in	2	Little Giant	**49Y677**
	48 in	30 in	49 in	33 in	60 in	2	Little Giant	**49Y679**
	60 in	24 in	60 in	24 in	60 in	2	Little Giant	**49Y678**
Dual-Side-Access Louvered Panels								
6 in-dia. Phenolic Wheels								
2,000 lb	48 in	24 in	48 in	24 in	36 in	1	Durham Mfg	**5LVF6**

Adjustable Shelves 5LVU4

Fixed Shelves 2CFN2

Single-Side-Access Mesh-Wall Metal Stock Trucks

Mesh walls enclose three sides of the shelves on these stock trucks to keep items from falling off the shelves. The shelves can be loaded on the one side that does not have a wall. Mesh walls can retain large and small items. They allow air to circulate through the stock truck and let users see items on the shelves.

Load Capacity	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	No. of Shelves	Brand	Item No.
Adjustable Shelves								
3,000 lb	30 in	48 in	30 ½ in	54 ½ in	56 ½ in	4	—	**5LVU3**
	30 in	60 in	30 ½ in	66 ½ in	56 ½ in	4	—	**5LVU4**
	36 in	24 in	24 ½ in	42 ½ in	56 ½ in	2	—	**16C201**
	36 in	60 in	36 ½ in	66 ½ in	56 ½ in	3	—	**5LVU1**
	36 in	72 in	36 ½ in	78 ½ in	56 ½ in	2	—	**5LVU0**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	2	—	**9PW27**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	2	—	**8RHU4**
	70 in	32 ⅞ in	78 ½ in	36 in	56 ½ in	4	—	**5LVU6**
3,600 lb	48 in	24 in	24 in	54 in	57 in	1	Little Giant	**19G924**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	2	—	**19G930**
	60 in	30 in	30 in	66 in	57 in	2	Little Giant	**19G927**
Fixed Shelves								
2,000 lb	36 in	24 in	24 ½ in	42 ½ in	56 ½ in	1	—	**9PY30**
	48 in	24 in	24 ½ in	54 ½ in	43 ½ in	1	—	**9GFD2**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	1	—	**8ZN03**
	48 in	30 in	30 ½ in	54 ½ in	43 ½ in	1	—	**9JE98**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	1	—	**16D044**
	48 in	36 in	36 ½ in	54 ½ in	56 ½ in	1	—	**16D045**
	60 in	24 in	24 ½ in	66 ½ in	56 ½ in	1	—	**49Y207**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	1	—	**49Y209**
	72 in	36 in	36 ½ in	78 ½ in	56 ½ in	1	—	**9DX93**
2,400 lb	48 in	30 in	54 ½ in	30 ½ in	45 ½ in	1	—	**458R48**
3,000 lb	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	2	—	**16D046**
	48 in	36 in	36 ½ in	54 ½ in	56 ½ in	3	—	**16D049**
	72 in	30 in	30 ½ in	78 ½ in	56 ½ in	4	—	**16D056**
3,600 lb	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	1	—	**2CFN2**
	48 in	24 in	24 ½ in	54 ½ in	56 ½ in	3	—	**2CFP1**
	48 in	30 in	30 in	54 ½ in	47 in	1	Little Giant	**8WPP1**
	48 in	30 in	30 ½ in	54 ½ in	56 ½ in	1	—	**2CFN4**
	60 in	24 in	24 ½ in	66 in	57 in	2	Little Giant	**2CFN7**
	60 in	24 in	24 ½ in	66 ½ in	56 ½ in	1	—	**2CFN3**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	3	—	**2CFP4**
	60 in	30 in	30 ½ in	66 ½ in	56 ½ in	1	—	**2CFN5**
	60 in	30 in	30 ½ in	66 in	57 in	2	Little Giant	**2CFN9**

Low-Profile

Standard-Base

Optional Caster Kit

Self-Dumping Steel Hoppers

Dayton

- Red powder-coat finish on hopper, black base

HOPPERS

Automatically dump loads when locking latch is released, then return to locked position. Constructed with precision robotic weld; base is formed steel. Safety chain secures hopper to fork truck, while cable enables dumping from fork truck seat.

Low-Profile

Feature a 90° dump angle and half-length fork entry. Hoppers return to locked position when lowered to ground.

Front-Release

Bumper dumps hopper a minimum of 70° when activated. Full-length fork entry. Predrilled for caster kit.

OPTIONAL CASTER KITS

Casters are field installable with hardware included. Include 2 rigid and 2 swivel casters. Intended for use on front-release hoppers only.

Volume Cap.	Overall Length	Overall Width	Overall Height	2000 lb. Item No.	4000 lb. Item No.	6000 lb. Item No.
Low Profile Self-Dumping Hoppers						
¼ cu. yd.	46 in	25 in	18 ¼ in	**5PKE8**	**5PKE9**	**5PKF0**
½ cu. yd.	51 ¼ in	25 in	28 in	**5PKF1**	**5PKF2**	**5PKF3**
1 cu. yd.	51 ¼ in	49 in	28 in	**5PKF4**	**5PKF5**	**5PKF6**
1½ cu. yd.	51 ¼ in	49 in	41 in	**5PKF7**	**5PKF8**	**5PKF9**
Front Self-Dumping Hoppers						
⅓ cu. yd.	49 ¼ in	26 in	38 ¼ in	—	—	**5PKG1**
⅓ cu. yd.	52 in	26 in	38 ¼ in	**5PKG0**	—	—
½ cu. yd.	52 in	33 ½ in	38 ¼ in	**5PKG2**	—	**5PKG3**
¾ cu. yd.	61 ½ in	31 ½ in	43 in	**5PKG4**	—	**5PKG5**
1 cu. yd.	61 ½ in	41 ½ in	43 in	**5PKG6**	—	**5PKG7**
1½ cu. yd.	69 in	43 ½ in	52 in	**5PKG8**	—	**5PKG9**
2 cu. yd.	69 in	56 ½ in	52 in	**5PKH0**	**5PKH1**	**5PKH2**
2½ cu. yd.	69 in	69 ½ in	52 in	**5PKH3**	—	**5PKH4**
3 cu. yd.	69 in	81 ¾ in	52 in	**5PKH5**	**5PKH6**	**5PKH7**

Wheel/Tread Material	Load Rating	6 in-dia. Wheels Item No.	8 in-dia. Wheels Item No.
Standard Plate Caster Kits			
Rubber	2400 lb	**5PKH8**	**5PKH9**
Polyurethane	4800 lb	**5PKJ2**	**5PKJ3**
Nylon	4800 lb	**5PKJ4**	**5PKJ5**

With Casters F1970

Without Casters F1975

Self-Dumping Poly Hoppers

- Dump up to 40° below horizontal
- All-welded steel framework
- Bumper release

Seamless, molded polyethylene bodies are supported by steel tubular frames.

Hoppers with casters have 2 swivel, 2 rigid casters. Hoppers without casters are forklift capable for elevated dumping and mobility.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Item No.
Hoppers with (4) 6 in Rubber Casters						
⅝ cu. yd.	750 lb.	59 in	26 in	42 in	Blue, Green, Red, White, Yellow	**F1970**
1 cu. yd.	1000 lb.	71 in	31 in	46 in	Blue, Green, Red, White, Yellow	**F1972**
1⅝ cu. yd.	1200 lb.	80 in	40 in	62 ½ in	Blue, Green, Red, White, Yellow	**F1974**
2¼ cu. yd.	1500 lb.	80 in	51 in	55 in	Blue, Green, Red, White, Yellow	**F1976**
Hoppers without Casters						
½ cu. yd.	750 lb.	59 in	26 in	42 in	Blue, Green, Red, White, Yellow	**F1969**
1 cu. yd.	1000 lb.	71 in	32 in	46 in	Blue, Gray, Green, Red, White, Yellow	**F1971**
1⅝ cu. yd.	1200 lb.	80 in	40 in	55 in	Gray	**F1974** *
1¾ cu. yd.	1200 lb.	80 in	40 in	55 in	Blue, Green, Red, White, Yellow	**F1973**
2¼ cu. yd.	1500 lb.	80 in	51 in	55 in	Blue, Gray, Green, Red, White, Yellow	**F1975**

*** Not forklift capable.***

300-Lb. Capacity

Rubbermaid Commercial Products

2-Wheel Wheelbarrows

These wheelbarrows have large 20"-dia. wheels and a one-piece plastic container that won't leak, cleans easily, and resists mild chemicals.

Cubic Ft. Capacity	Load Capacity	Wheel Material	Wheel Type	Item No.
3 ½ cu ft	200 lb	Rubber	Semi-Pneumatic	**2KTD7**
7 ½ cu ft	300 lb	Vulcanized Rubber	Pneumatic	**4W504**

46V230

2-Wheel Steel Trailer Carts

2-wheel steel trailer carts can be pulled by all-terrain and utility task vehicles (ATVs and UTVs). Feature rust-resistant powder-coated finish and pneumatic tires that roll smoothly across rough terrain.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Wheel Dia.	Wheel Width	Item No.
10.3 cu ft	500 lb	58 ⅞ in	30 ½ in	30 in	15 in	3 ½ in	**46V231**
18.4 cu ft	1,000 lb	80 in	32 ⅜ in	38 ⅜ in	16 in	5 in	**46V233**
13.6 cu ft	1,500 lb	67 ¾ in	45 in	37 ⅞ in	18 in	8 in	**46V234**
18.4 cu ft	1,500 lb	80 ¼ in	37 ⅛ in	32 ⅝ in	16 in	5 in	**46V230**

General Purpose Plastic Tilt Trucks

General purpose plastic tilt trucks have a seamless plastic container that won't rust, dent, chip, peel, corrode, or absorb moisture. It withstands exposure to many chemicals and can be cleaned with high-pressure jets of water or steam. With 2 swivel and 2 axle-mounted casters, except as noted.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	OPTIONAL LIDS Item No.
General Purpose Plastic Tilt Trucks								
With a Flat Handle								
27.0 cu ft	600 lb	77 in	34 in	43 ¾ in	Black	Tough Guy	21VK40 *	21VK31
	850 lb	72 ¼ in	33 ½ in	43 ¾ in	Black	Rubbermaid	5M654	1D651
		77 in	34 in	44 ¾ in	Black	Tough Guy	21VK49	21VK31
With a Raised Handle								
9.0 cu ft	275 lb	48 in	26 in	30 in	Green	—	8YCN4 *	—
		48 in	26 in	30 in	Yellow	—	9HT90 *	—
		48 in	26 in	30 in	Blue	—	9HT96 *	—
		48 in	26 in	30 in	Gray	—	8RHX3 *	—
		48 in	26 in	30 in	White	—	9UCF0 *	—
		48 in	26 in	30 in	Black	—	8EK72 *	—
		48 in	26 in	30 in	Red	—	9PW62 *	9HR54
16.0 cu ft	300 lb	55 ½ in	26 ½ in	36 in	Yellow	—	8EF30 *	—
		55 ½ in	26 ½ in	36 in	Orange	—	9TCR7 *	—
	600 lb	55 ½ in	26 ½ in	36 in	Yellow	—	9DPA8	8ANZ2
	1,000 lb	55 ½ in	26 ½ in	37 ½ in	Gray	—	8RHM7	—
		55 ½ in	26 ½ in	37 ½ in	Yellow	—	8Z976	8ANZ2
29.0 cu ft	900 lb	69 in	31 ½ in	39 ½ in	White	—	9UAA8	—
		69 in	31 ½ in	39 ½ in	Gray	—	9HN67	—
		69 in	31 ½ in	39 ½ in	Orange	—	8EPR8	9LGE7
	1,400 lb	69 in	31 ½ in	39 ½ in	Yellow	—	8AP19	—
		69 in	31 ½ in	39 ½ in	Green	—	8TX69	—
50.0 cu ft	1,000 lb	74 in	40 in	50 ½ in	Blue	—	8AP21	—
		74 in	40 in	50 ½ in	Green	—	8TVG3	—
		74 in	40 in	50 ½ in	Black	—	9UA43	—
		74 in	40 in	50 ½ in	Red	—	9UAC0	—
	1,700 lb	74 in	40 in	53 ½ in	Gray	—	4UCE1	4UCE3
		74 in	40 in	53 ½ in	Red	—	8WUK6	8ANM5
		74 in	40 in	53 ½ in	Green	—	9WZ86	—
59.0 cu ft	1,200 lb	74 in	51 in	52 ¼ in	Yellow	—	8YA88	—
		74 in	51 in	52 ¼ in	Black	—	9KFN4	—
		74 in	51 in	52 ¼ in	Red	—	9HN59	—
		74 in	51 in	52 ¼ in	Blue	—	9NUD6	—
		74 in	51 in	52 ¼ in	Orange	—	8RPN8	9DVT6
		74 in	51 in	52 ¼ in	Green	—	8ZK89	—
	2,000 lb	74 in	51 in	53 ½ in	Red	—	8ANN0	—
		74 in	51 in	53 ½ in	Blue	—	9AH59	—
		74 in	51 in	53 ½ in	Yellow	—	9AHJ9	—
		74 in	51 in	53 ½ in	Black	—	9KCJ3	—
Without Handle								
13.5 cu ft	300 lb	60 in	28 in	38 ½ in	Black	Tough Guy	21VK39 *	21VK32
	450 lb	56 ¾ in	28 in	38 ½ in	Black	Rubbermaid	1D657	1D651
		60 in	28 in	38 ½ in	Black	Tough Guy	21VK50	21VK32
Steel-Reinforced Plastic Tilt Trucks								
With a Flat Handle								
13.5 cu ft	850 lb	65 in	28 in	38 ½ in	Blue	Tough Guy	21VK41	—
		65 in	28 in	38 ½ in	Yellow	Tough Guy	21VK43	—
		65 in	28 in	38 ½ in	Red	Tough Guy	21VK42	—
		65 in	28 in	38 ½ in	Black	Tough Guy	21VK47	21VK32
	1,400 lb	65 in	28 in	38 ½ in	Black	Tough Guy	21VK33	21VK32
27.0 cu ft	1,250 lb	77 in	34 in	44 ¾ in	Red	Tough Guy	21VK45	—
		77 in	34 in	44 ¾ in	Yellow	Tough Guy	21VK46	—
		77 in	34 in	44 ¾ in	Blue	Tough Guy	21VK44	—
		77 in	34 in	44 ¾ in	Black	Tough Guy	21VK48	21VK31
	2,100 lb	77 in	34 in	44 ¾ in	Black	Tough Guy	21VK34	21VK31
With a Raised Handle								
9.0 cu ft	1,200 lb	48 in	26 in	31 ½ in	Gray	—	4UCC8	4UCC9
16.0 cu ft	1,500 lb	55 ½ in	26 ½ in	37 ½ in	Green	—	9WCW3	9GM87
		55 ½ in	26 ½ in	37 ½ in	Orange	—	9PY61	8ERX1
		55 ½ in	26 ½ in	37 ½ in	Blue	—	9UAA3	—
		55 ½ in	26 ½ in	37 ½ in	White	—	8AN70	—
29.0 cu ft	2,100 lb	69 in	31 ½ in	41 ½ in	White	—	8RHN1	—
		69 in	31 ½ in	41 ½ in	Green	—	9TCP3	—
50.0 cu ft	2,200 lb	74 in	40 in	53 ½ in	Gray	—	4UCE2	4UCE3
59.0 cu ft	2,500 lb	74 in	51 in	53 ½ in	Green	—	9MK87	—
		74 in	51 in	53 ½ in	Black	—	9LF01	—
78.0 cu ft	2,800 lb	81 in	56 in	56 in	Gray	—	4UCE9	—
Without Handle								
13.5 cu ft	850 lb	60 ½ in	28 in	38 ½ in	Black	Rubbermaid	1D656	1D654
	1,400 lb	60 ½ in	28 in	38 ⅝ in	Black	Rubbermaid	1D655	1D654
27.0 cu ft	1,250 lb	72 ¼ in	33 ½ in	43 ¾ in	Black	Rubbermaid	1D653	1D651
	2,100 lb	72 ¼ in	33 ½ in	43 ¾ in	Black	Rubbermaid	1D652	1D651

** (1) swivel caster, (2) axle-mounted casters.*

Forkliftable Plastic Tilt Trucks

These tilt trucks have forklift pockets and can be picked up and moved with forklifts and automated lifters. This increases efficiency and reduces physical effort when moving loaded trucks. All have 2 swivel and 2 axle-mounted casters.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	OPTIONAL LIDS Item No.
Forkliftable Steel-Reinforced Plastic Tilt Trucks								
With a Flat Handle								
13.5 cu ft	1,400 lb	65 in	30 in	38 ½ in	Black	Tough Guy	21VK35	21VK32
27.0 cu ft	1,200 lb	77 in	36 in	44 ¾ in	Black	Tough Guy	21VK36	21VK31
	1,250 lb	72 ¼ in	33 ½ in	43 ¾ in	Black	Rubbermaid	2ZB51	1D651
	1,300 lb	70 in	33 ⅞ in	43 ⅞ in	Black	Suncast Commercial	48LW44	—
	2,200 lb	70 in	33 ⅞ in	43 ⅛ in	Black	Suncast Commercial	48LW45	—
40.5 cu ft	1,200 lb	80 ½ in	43 in	49 ½ in	Black	Rubbermaid	5Z192	5Z196
	1,300 lb	85 ⅞ in	41 ¼ in	47 ⅞ in	Gray	Suncast Commercial	48LW46	—
	2,100 lb	80 ½ in	43 in	49 ½ in	Black	Rubbermaid	5M641	5Z196
	2,200 lb	85 ⅞ in	41 ¼ in	49 in	Gray	Suncast Commercial	48LW47	—
54.0 cu ft	2,300 lb	81 ¼ in	46 ¾ in	50 in	Black	Rubbermaid	5M643	—
67.5 cu ft		81 ½ in	55 ½ in	50 in	Black	Rubbermaid	5M645	—
Without Handle								
27.0 cu ft	1,250 lb	34 in	72 ¼ in	43 ⅝ in	Red	Rubbermaid	4YX38	1D651
40.5 cu ft	1,500 lb	80 ½ in	43 in	50 ¼ in	Black	Rubbermaid	2ZB52	—
Forkliftable Steel-Reinforced Plastic Tilt Trucks for Recyclables								
With a Flat Handle								
13.5 cu ft	850 lb	60 ½ in	28 in	38 ⅝ in	Blue	Rubbermaid	5M653	1D654

Towable Steel-Reinforced Plastic Tilt Trucks

Towable tilt trucks have a tow bar, hitch, and frame and can be connected to other towable tilt trucks and/or towing equipment. They have a flat handle, two swivel casters, and two axle-mounted wheels.

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Brand	Item No.	OPTIONAL LIDS Item No.
13.5 cu ft	1,400 lb	65 in	30 in	41 ½ in	Tough Guy	21VK37	21VK32
27.0 cu ft	2,100 lb	72 ¼ in	33 ½ in	42 ¼ in	Rubbermaid	4UR31	1D651
		77 in	36 in	44 ¾ in	Tough Guy	21VK38	21VK31
40.5 cu ft		92 in	44 in	51 in	Rubbermaid	3LU56	—

Blank Sides
36FK89

Recycling Symbol
5M733

High-Maneuverability Cube Trucks

High-maneuverability cube trucks can spin 360°, allowing them to navigate tight areas such as laundry rooms, hallways, aisles, stock rooms, production floors, and kitchens.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.	OPTIONAL LID Item No.
Blank Sides								
Polyurethane Tread Wheels with (2) Rigid, (2) Swivel Diamond Mounting Location								
8.0 cu ft	200 lb	38 in	24 in	29 ½ in	Gray	—	**36FK87**	—
	300 lb	38 in	24 in	29 ½ in	Black	—	**36FK89**	—
	300 lb	38 in	26 in	28 ⅛ in	Black	Rubbermaid	**5M726**	**5M728**
	700 lb	38 in	24 in	29 ½ in	Black	—	**36FK88**	—
	700 lb	38 ⅜ in	26 in	28 ¼ in	Black	Rubbermaid	**4UR37**	**5M728**
11.9 cu ft	250 lb	43 in	28 in	33 ½ in	Gray	—	**36FK90**	—
	400 lb	43 in	28 in	33 ½ in	Black	—	**36FK92**	—
	800 lb	43 in	28 in	33 ½ in	Black	—	**36FK91**	—
12.0 cu ft	400 lb	42 ¾ in	28 in	33 in	Black	Rubbermaid	**5Z204**	**5Z208**
	800 lb	43 ¼ in	28 in	33 ⅞ in	Black	Rubbermaid	**4UR38**	**5Z208**
14.0 cu ft	300 lb	44 in	31 in	33 ½ in	Gray	—	**36FK93**	—
	500 lb	44 in	31 in	34 ½ in	Black	—	**36FK94**	—
	500 lb	44 ⅛ in	31 in	32 ½ in	Black	Rubbermaid	**5Z205**	**5Z209**
16.0 cu ft	400 lb	44 in	31 in	36 ½ in	Gray	—	**36FK95**	—
	500 lb	44 in	31 in	37 ½ in	Black	—	**36FK98**	—
	500 lb	43 ¾ in	31 in	37 in	Black	Rubbermaid	**5Z206**	**5Z209**
	1,000 lb	44 in	31 in	37 ½ in	Black	—	**36FK96**	—
	1,000 lb	44 ⅜ in	31 in	38 ¼ in	Black	Rubbermaid	**4UR39**	**5Z209**
20.0 cu ft	500 lb	48 in	36 ½ in	37 ½ in	Gray	—	**36FK99**	—
	600 lb	48 ½ in	35 in	36 ¾ in	Black	—	**36FL02**	—
	600 lb	48 in	34 ⅛ in	36 ½ in	Black	Rubbermaid	**5Z207**	**5Z210**
	1,200 lb	48 in	35 ½ in	37 ½ in	Black	—	**36FL01**	—
	1,200 lb	48 ¼ in	34 ⅛ in	37 ⅞ in	Black	Rubbermaid	**4UR40**	**5Z210**
Polyurethane Tread Wheels with (4) Swivel Diamond Mounting Location								
27.0 cu ft	1,200 lb	59 in	34 in	42 ⅞ in	Black	Rubbermaid	**4UR41**	**4VM70**
Polyurethane Tread Wheels with (4) Swivel Standard Mounting Location								
6.7 cu ft	600 lb	34 in	24 in	27 in	Blue	Royal	**1MDN9**	**10F461**
	600 lb	34 in	24 in	26 in	Blue	Royal	**22E937**	**10F461**
	600 lb	34 in	24 in	26 in	Gray	Royal	**22E942**	**10F456**
11.9 cu ft	600 lb	40 in	28 in	31 ½ in	Blue	Royal	**1MDR1**	**10F462**
	600 lb	43 in	28 in	35 ½ in	Blue	—	**36FL14**	—
	600 lb	43 in	28 in	35 ½ in	Gray	—	**36FL15**	—
14.0 cu ft	600 lb	44 in	31 in	35 ½ in	Blue	—	**36FL19**	—
14.2 cu ft	600 lb	40 in	30 in	34 in	Blue	Royal	**1MDR2**	**10F463**
	600 lb	40 in	30 in	33 in	Gray	Royal	**22E944**	**10F458**
18.6 cu ft	600 lb	44 in	32 in	35 ½ in	Blue	Royal	**22E940**	**10F464**
	600 lb	44 in	32 in	36 ½ in	Blue	Royal	**1MDR3**	**10F464**
25.6 cu ft	600 lb	52 in	36 in	35 ½ in	Blue	Royal	**22E941**	**10F465**
	600 lb	52 in	36 in	35 ½ in	Gray	Royal	**22E946**	**10F460**
	600 lb	52 in	36 in	36 ½ in	Gray	Royal	**10F470**	**10F460**
	600 lb	52 in	36 in	36 ½ in	Blue	Royal	**1MDR4**	**10F465**
	800 lb	52 in	36 in	35 ½ in	Red	Royal	**35LF50**	**5M728**
27.0 cu ft	1,200 lb	59 in	34 in	44 ½ in	Black	—	**36FL03**	—
Recycling								
Polyurethane Tread Wheels with (2) Rigid, (2) Swivel Diamond Mounting Location								
16.0 cu ft	500 lb	44 in	31 in	37 ½ in	Blue	—	**36FK97**	—
	500 lb	43 ¾ in	31 in	37 in	Blue	Rubbermaid	**5M733**	**5Z209**

General Purpose Cube Trucks

36FL23

General purpose cube trucks are used for a variety of material-handling applications. They have a mix of rigid casters and swivel casters that allow them to both move around curves and obstacles and track a straight course while rolling.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
(2) Rigid, (2) Swivel Polyurethane Tread Casters/Wheels							
7.6 cu ft	400 lb	36 ¼ in	24 ¼ in	27 in	Gray	—	**8ARC6**
					White	—	**8ARC8**
8.0 cu ft	500 lb	38 in	24 in	30 ½ in	Red	—	**36FL08**
					Gray	—	**36FL10**
					White	—	**36FL11**
					Yellow	—	**36FL12**
11.9 cu ft	600 lb	43 in	28 in	35 ¼ in	Red	—	**36FL16**
				35 ½ in	White	—	**36FL17**
					Yellow	—	**36FL18**
16.0 cu ft		44 in	31 in	38 ½ in	Blue	—	**36FL23**
					Yellow	—	**36FL25**
					White	—	**36FL26**
20.0 cu ft	800 lb	48 in	34 in		Blue	—	**36FL29**
					Gray	—	**36FL30**
					White	—	**36FL31**
					Red	—	**36FL33**
27.0 cu ft		59 in	36 in	43 ½ in	White	—	**36FL36**
					Blue	—	**36FL37**
					Gray	—	**36FL38**
					Yellow	—	**36FL39**
(2) Rigid, (4) Swivel Rubber Tread Casters/Wheels							
23.0 cu ft	800 lb	43 ½ in	29 in	37 in	Blue	Royal Basket Trucks	**4AAC7**
					Blue	Royal Basket Trucks	**4AAC9**

Blank Sides
2ENC4

Recycling
4HTF9

Easy-Load Cube Trucks

The side cutouts on these trucks allow trash, packages, and other heavy or bulky objects to be loaded into the trucks without having to lift them over the full height of the trucks' container wall.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
Blank Sides							
23.0 cu ft	1,100 lb	48 ½ in	31 ½ in	36 ¼ in	Blue	—	**4HTF3**
					Green	—	**4HTF4**
					Gray	—	**4HTF5**
					Orange	—	**4HTF6**
					Red	—	**4HTF7**
					Yellow	—	**4HTF8**
26.5 cu ft	1,200 lb	48 in	31 ¾ in	37 in	Blue	Royal	**2ENC4** *
42.1 cu ft	1,000 lb	71 in	43 in	42 in	Gray	—	**4UCA5** *
Cardboard Only							
23.0 cu ft	1,100 lb	48 ½ in	31 ½ in	36 ¼ in	Blue	—	**4HTG5**
					Green	—	**4HTG6**
					Gray	—	**4HTG7**
					Orange	—	**4HTG8**
					Yellow	—	**4HTG9**
					Red	—	**9WFM5**
26.5 cu ft	1,000 lb	48 in	31 ¾ in	37 in	Green	Royal	**22E961** *
					Gray	Royal	**22E962** *
					Yellow	Royal	**22E964** *
					Red	Royal	**22E965** *
					Blue	Royal	**22F134** *
Recycling							
23.0 cu ft	1,100 lb	48 ½ in	31 ½ in	36 ¼ in	Blue	—	**4HTF9**
					Green	—	**4HTG1**
					Gray	—	**4HTG2**
					Orange	—	**4HTG3**
					Yellow	—	**4HTG4**
					Red	—	**8C778**
26.5 cu ft	1,000 lb	48 in	31 ¾ in	37 in	Blue	Royal	**22F135** *
					Gray	Royal	**22F137** *
					Red	Royal	**22F140** *
Trash Only							
23.0 cu ft	1,100 lb	48 ½ in	31 ½ in	36 ¼ in	Blue	—	**4HTH1**
					Green	—	**4HTH2**
					Gray	—	**4HTH3**
					Orange	—	**4HTH4**
					Red	—	**4HTH5**
					Yellow	—	**8NEJ6**
26.5 cu ft	1,000 lb	48 in	31 ¾ in	37 in	Orange	Royal	**22F144** *
					Red	Royal	**22F146** *

** Without brake.*

Box Truck Side Panel Information

Expanded-metal side panels have openings that allow air to circulate through the trucks. **Solid** side panels prevent small objects from falling out of the trucks.

Drop-Gate Raised Platfrom
19G909

Open Sided
Raised Platform
16A895

Raised-Platform
19G901

Jamco Products · Little Giant

Drop-Gate & Raised-Platform Box Trucks

These box trucks have features that reduce effort when loading and unloading the trucks. All have two swivel casters and two rigid casters, except as noted. **Drop-gate** trucks have one side wall that folds down halfway to reduce how far items have to be lifted to get them over the wall. **Open-sided** trucks do not have a wall on one side of their container, which lets users slide heavy objects into or out of the container. **Raised-platform** trucks have a platform that elevates the trucks' container to reduce bending and straining when reaching into the container.

Load Capacity	Overall Length	Overall Width	Overall Height	Handle Type	Caster Wheel/ Tread Material	Brand	Item No.	
Drop-Gate Box Trucks								
With 1 Shelf and Expanded Metal Side Panels								
1,200 lb	54 in	31 in	44 in	Flat	Polyurethane	Jamco	**16C256**	
1,400 lb	66 ½ in	30 ½ in	43 ⅝ in	Flat	Polyolefin	—	**16C257**	*
3,600 lb	54 in	24 in	47 in	Flat	Polyurethane	Little Giant	**49Y489**	
	54 ½ in	30 ½ in	47 ⅛ in	Flat	Polyurethane	—	**49Y491**	
	66 ½ in	30 ½ in	45 ⅛ in	Flat	Polyurethane	—	**49Y496**	
Drop-Gate Raised-Platform Box Trucks								
With 2 Shelves and Expanded Metal Side Panels								
2,000 lb	54 ½ in	30 ⅜ in	40 in	Ergonomic	Polyurethane	—	**19G910**	
With 1 Shelf and Solid Side Panels								
1,200 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G907**	
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G909**	
Open-Sided Raised-Platform Box Trucks								
With 2 Shelves and Solid Side Panels								
1,200 lb	42 ⅛ in	18 ½ in	39 ⅞ in	Flat	Polyurethane	—	**2XJV2**	*
	42 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	—	**16A895**	*
	42 ½ in	24 ⅜ in	40 ⅛ in	Flat	Polyurethane	—	**39E645**	*
2,000 lb	42 ⅛ in	24 ⅛ in	31 ¼ in	Flat	Phenolic	—	**49Y199**	*
	54 ⅛ in	24 ⅛ in	41 ¼ in	Flat	Phenolic	—	**49Y201**	*
With 2 Shelves and Expanded Metal Side Panels								
1,200 lb	42 ½ in	30 ⅜ in	40 ⅛ in	Flat	Polyurethane	—	**16C226**	*
With 1 Shelf and Solid Side Panels								
2,000 lb	65 in	30 in	40 in	Flat	Polyurethane	Little Giant	**9MJD4**	
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**39E646**	
	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**39E648**	
Raised-Platform Box Trucks								
With 2 Shelves and Solid Side Panels								
1,200 lb	54 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	—	**5LVG2**	*
	42 ⅛ in	24 ⅛ in	39 ⅞ in	Flat	Polyurethane	—	**2XJV7**	*
2,000 lb	54 ⅛ in	24 ⅛ in	41 ¼ in	Flat	Phenolic	—	**49Y205**	*
With 2 Shelves and Expanded Metal Side Panels								
1,200 lb	38 ½ in	18 ½ in	40 ⅛ in	Flat	Polyurethane	—	**19G901**	*
	66 in	31 in	40 in	Flat	Polyurethane	Jamco	**16C235**	
1,400 lb	42 ½ in	18 ½ in	40 ⅛ in	Flat	Polyolefin	—	**16C229**	*
With 1 Shelf and Expanded Metal Side Panels								
2,000 lb	41 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G903**	
	53 in	24 in	40 in	Flat	Polyurethane	Little Giant	**19G905**	

** Swivel casters include brake.*

Rubbermaid Commercial Products

Towable Cube Trucks

4UR42

These trucks have a tow bar and hitch and can be connected to other towable cube trucks and/or towing equipment. They also have a handle and can be pushed manually.

Cubic Foot Capacity	Load Cap.	Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
27.0 cu ft	1,200 lb	59 in	34 in	42 ⅞ in	Black	Rubbermaid	**4UR42**
				44 ½ in	Black	—	**36FL04**

CORTECH

Easy-Drain Dual-Handle Cube Trucks

Flame-Retardant
5EMF0

- 53"L x 31"W x 38"H
- 1000-lb. load capacity

These cube trucks have built-in drain for easy cleaning and two handles that allow them to be steered from either side. The handles can hold spray bottles, liners, and other cleaning supplies. The trucks' handles and body are made from break-resistant plastic, and their casters are attached with tamper-resistant mounts. Suitable for use in correctional facilities.

Color	Item No.	
Easy-Drain Dual-Handle Cube Trucks		
Black	**5EME6**	
Blue	**5EME9**	*
Green	**5EME8**	*
White	**5EME7**	*
Flame-Retardant Easy-Drain Dual-Handle Cube Trucks		
Blue	**5EMF2**	
Gray	**5EMF0**	
Green	**5EMF1**	

** Food grade.*

Security Box Truck
5CHJ0

Drop-Gate Security Box Truck
1TTZ6

Little Giant

Security Box Trucks with Hinged Lid

Security box trucks have a hinged lid that can be closed and locked with a padlock to prevent theft and vandalism of the trucks' contents. All have two swivel and two rigid casters. **Drop-gate** trucks have one side wall that folds down halfway to reduce how far items have to be lifted to get them over the wall.

Load Capacity	Overall Length	Overall Width	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Security Box Trucks						
With 1 Shelf and Solid Side Panels						
2,000 lb	42 ⅛ in	24 ¼ in	32 ¾ in	Phenolic	—	**5CHJ0**
	66 ⅛ in	30 ¼ in				**5CHJ3**
With 1 Shelf and Expanded-Metal Side Panels						
2,000 lb	42 ¼ in	24 ¼ in	32 ⅝ in	Phenolic	—	**5CHH6**
	54 ¼ in	30 ¼ in				**5CHH8**
Drop-Gate Security Box Trucks						
With 1 Shelf and Solid Side Panels						
2,000 lb	66 ⅛ in	30 ⅜ in	46 ¼ in	Rubber	—	**34AN51**
With 1 Shelf and Expanded-Metal Side Panels						
1,500 lb	54 in	30 in	50 ½ in	Rubber	Little Giant	**49Y669**
	66 in					**49Y670**
3,600 lb	54 ½ in	24 ½ in	46 ¼ in	Polyurethane	—	**1TTZ3**
	66 ½ in	30 ½ in				**1TTZ6**

Solid Sides
16A913

Expanded
Metal Sides
5CHH1

General Purpose Box Trucks

Suitable for moving packages, products, equipment, and bulk items in a variety of material-handling applications. Two swivel casters, and two rigid casters.

Load Capacity	Overall Length	Overall Width	Overall Height	Handle Type	Caster Wheel/ Tread Material	Brand	Item No.
With 1 Shelf and Solid Side Panels							
1,200 lb	66 in	31 in	27 in	Flat	Polyurethane	Jamco	**16A919**
1,400 lb	42 ⅛ in	18 ¼ in	28 ⅛ in	Flat	Polyolefin	—	**16A913** *
		24 ¼ in	28 ⅛ in	Flat	Polyolefin	—	**16A914** *
2,000 lb	41 in	24 in	33 in	Flat	Rubber	Little Giant	**5CHH2**
	53 in	24 in	33 in	Flat	Rubber	Little Giant	**5CHH3**
	66 ⅛ in	30 ¼ in	34 ⅝ in	Ergonomic	Phenolic	—	**49Y219** *
With 1 Shelf and Expanded Metal Side Panels							
1,200 lb	54 ½ in	24 ½ in	33 ⅞ in	Ergonomic	Polyurethane	—	**16C248** *
		30 ½ in	33 ⅞ in	Ergonomic	Polyurethane	—	**16C251** *
1,400 lb	42 ½ in	24 ½ in	28 ⅛ in	Flat	Polyolefin	—	**16C247** *
2,000 lb		24 ½ in	29 ⅜ in	Flat	Phenolic	—	**5CHG8**
		24 ½ in	35 ⅛ in	Ergonomic	Phenolic	—	**49Y212** *
	54 ½ in	24 ½ in	35 ⅛ in	Ergonomic	Phenolic	—	**49Y213** *
	66 ½ in	30 ½ in	33 in	Flat	Phenolic	—	**5CHH1**
		30 ½ in	35 ⅛ in	Ergonomic	Phenolic	—	**49Y215** *

***** *Swivel casters include brake.*

Basket Trucks

Basket trucks have soft fabric liners that keep items from falling out of the trucks as they're moving. The liners may be permanently attached to the carts' frame, or they may be removable to allow for cleaning and replacement. Also called laundry or mail hampers, these lightweight carts can carry laundry, sports equipment, packages, and other bulk materials. All have a wood base. **Canvas** liners resist abrasion but are prone to mold and mildew if exposed to dampness or moisture. **Vinyl** liners are stronger than canvas liners. They resist mold, mildew, and tears and withstand exposure to UV rays. Vinyl liners are also flame-retardant, but other parts of these basket trucks may not be.

Permanent
Mildew-Resistant
Vinyl Liner
4W331

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Inside Height	Liner Color	Brand	Item No.
Permanent Abrasion-Resistant Canvas Liner								
7.1 cu ft	600 lb	30 in	20 in	27 in	20 ½ in	White	Royal	**4W282**
7.5 cu ft	600 lb	30 in	20 in	27 in	26 ½ in	White	Tough Guy	**33W329**
12.4 cu ft	600 lb	36 in	24 in	31 ½ in	31 in	White	Tough Guy	**33W331**
12.5 cu ft	600 lb	36 in	24 in	31 ½ in	25 in	White	Royal	**4W328**
14.9 cu ft	600 lb	36 in	26 in	34 in	27 ½ in	White	Royal	**4W283**
15.0 cu ft	600 lb	36 in	26 in	34 in	33 ½ in	White	Tough Guy	**33W333**
17.8 cu ft	600 lb	40 in	28 in	34 in	27 ½ in	White	Royal	**9MDY3**
19.4 cu ft	600 lb	40 in	28 in	36 ½ in	30 in	White	Royal	**4W330**
20.0 cu ft	600 lb	40 in	28 in	36 ½ in	36 in	White	Tough Guy	**33W335**
24.9 cu ft	600 lb	48 in	32 in	36 ½ in	36 in	White	Tough Guy	**33W337**
26.7 cu ft	600 lb	48 in	32 in	36 ½ in	30 in	White	Royal	**4W284**
29.9 cu ft	600 lb	54 in	34 in	37 ½ in	36 in	White	Tough Guy	**33W340**
31.9 cu ft	800 lb	54 in	34 in	37 ½ in	30 in	White	Royal	**2ENC3**
Permanent Mildew-Resistant Vinyl Liner								
7.1 cu ft	600 lb	30 in	20 in	27 in	20 ½ in	Blue	Royal	**2CFP5**
	600 lb	30 in	20 in	27 in	20 ½ in	Yellow	Royal	**2CFP8**
	600 lb	30 in	20 in	27 in	20 ½ in	Red	Royal	**4W327**
7.5 cu ft	600 lb	30 in	20 in	27 in	26 ½ in	Blue	Tough Guy	**33W303**
	600 lb	30 in	20 in	27 in	26 ½ in	Red	Tough Guy	**33W304**
12.4 cu ft	600 lb	36 in	24 in	31 ½ in	31 in	Red	Tough Guy	**33W307**
	600 lb	36 in	24 in	31 ½ in	31 in	Blue	Tough Guy	**33W308**
12.5 cu ft	600 lb	36 in	24 in	31 ½ in	25 in	Blue	Royal	**2CFP6**
	600 lb	36 in	24 in	31 ½ in	25 in	Yellow	Royal	**2CFP9**
	600 lb	36 in	24 in	31 ½ in	25 in	Red	Royal	**2ENA7**
14.9 cu ft	600 lb	36 in	26 in	34 in	27 ½ in	Yellow	Royal	**2CFR1**
	600 lb	36 in	26 in	34 in	27 ½ in	Red	Royal	**4W285**
	600 lb	36 in	26 in	34 in	27 ½ in	Blue	Royal	**4W329**
	600 lb	36 in	26 in	34 in	27 ½ in	Green	Royal	**8AEY0**
	600 lb	36 in	26 in	34 in	27 ½ in	Gray	Royal	**8AEY1**
	600 lb	36 in	26 in	34 in	27 ½ in	White	Royal	**8NER9**
15.0 cu ft	600 lb	36 in	26 in	34 in	33 ½ in	Blue	Tough Guy	**33W311**
	600 lb	36 in	26 in	34 in	33 ½ in	Red	Tough Guy	**33W312**
15.3 cu ft	600 lb	50 in	23 in	31 in	23 in	Blue	Royal	**2HEG5**
17.8 cu ft	600 lb	40 in	28 in	34 in	27 ½ in	Blue	Royal	**8DRV4**
	600 lb	40 in	28 in	34 in	27 ½ in	Red	Royal	**8DT85**
	600 lb	40 in	28 in	34 in	27 ½ in	Gray	Royal	**8UWG2**
	600 lb	40 in	28 in	34 in	27 ½ in	Yellow	Royal	**9NZA4**

Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Inside Height	Liner Color	Brand	Item No.
19.4 cu ft	600 lb	40 in	28 in	36 ½ in	30 in	Blue	Royal	**2CFP7**
	600 lb	40 in	28 in	36 ½ in	30 in	Yellow	Royal	**2CFR2**
	600 lb	40 in	28 in	36 ½ in	30 in	Red	Royal	**2ENA8**
	600 lb	40 in	28 in	36 ½ in	30 in	Green	Royal	**8AEJ5**
	600 lb	40 in	28 in	36 ½ in	30 in	White	Royal	**8TPH4**
20.0 cu ft	600 lb	40 in	28 in	36 ½ in	36 in	Blue	Tough Guy	**33W315**
	600 lb	40 in	28 in	36 ½ in	36 in	Red	Tough Guy	**33W316**
21.9 cu ft	600 lb	42 in	30 in	36 ½ in	30 in	White	Royal	**8RFN2**
	600 lb	42 in	30 in	36 ½ in	30 in	Green	Royal	**8XRC1**
	600 lb	42 in	30 in	36 ½ in	30 in	Red	Royal	**8ZEN4**
	600 lb	42 in	30 in	36 ½ in	30 in	Blue	Royal	**9MF30**
24.9 cu ft	600 lb	48 in	32 in	36 ½ in	36 in	Red	Tough Guy	**33W319**
	600 lb	48 in	32 in	36 ½ in	36 in	Blue	Tough Guy	**33W320**
25.6 cu ft	600 lb	60 in	32 in	30 ¾ in	23 in	Blue	Royal	**2ENC8**
	600 lb	60 in	32 in	30 ¾ in	23 in	Yellow	Royal	**2END1**
26.7 cu ft	600 lb	48 in	32 in	36 ½ in	30 in	Yellow	Royal	**2ENA6**
	600 lb	48 in	32 in	36 ½ in	30 in	Red	Royal	**4W286**
	600 lb	48 in	32 in	36 ½ in	30 in	Blue	Royal	**4W331**
	600 lb	48 in	32 in	36 ½ in	30 in	White	Royal	**8AEH1**
	600 lb	48 in	32 in	36 ½ in	30 in	Green	Royal	**8UL40**
	600 lb	48 in	32 in	36 ½ in	30 in	Gray	Royal	**9GEZ8**
28.3 cu ft	600 lb	85 in	24 in	32 in	24 in	Blue	Royal	**2HEG9**
29.8 cu ft	600 lb	70 in	32 in	30 ¾ in	23 in	Red	Royal	**2END4**
	600 lb	70 in	32 in	30 ¾ in	23 in	Yellow	Royal	**2END5**
31.9 cu ft	800 lb	54 in	34 in	37 ½ in	30 in	Blue	Royal	**2ENA9**
	800 lb	54 in	34 in	37 ½ in	30 in	Red	Royal	**2ENC1**
	800 lb	54 in	34 in	37 ½ in	30 in	Yellow	Royal	**2ENC2**
	600 lb	54 in	34 in	37 ½ in	36 in	Blue	Tough Guy	**33W325**
	600 lb	54 in	34 in	37 ½ in	36 in	Red	Tough Guy	**33W326**
Removable Abrasion-Resistant Canvas Liner								
12.5 cu ft	600 lb	36 in	24 in	31 ½ in	25 in	White	Royal	**9W593**
14.9 cu ft	600 lb	36 in	26 in	34 in	27 ½ in	White	Royal	**4ZZ49**
15.0 cu ft	600 lb	36 in	26 in	34 in	33 ½ in	White	Tough Guy	**33W339**
19.4 cu ft	600 lb	40 in	28 in	36 ½ in	30 in	White	Royal	**8VTD0**
21.9 cu ft	600 lb	42 in	30 in	36 ½ in	30 in	White	Royal	**8PFC5**
26.7 cu ft	600 lb	48 in	32 in	36 ½ in	30 in	White	Royal	**8PFC6**
Removable Mildew-Resistant Vinyl Liner								
10.0 cu ft	600 lb	34 in	22 in	29 ½ in	23 in	Blue	Royal	**31XG56**
12.5 cu ft	600 lb	36 in	24 in	31 ½ in	25 in	Red	Royal	**8ARC5**
	600 lb	36 in	24 in	31 ½ in	25 in	Blue	Royal	**8ZCU1**
14.9 cu ft	600 lb	36 in	26 in	34 in	27 ½ in	Blue	Royal	**4ZZ48**
	600 lb	36 in	26 in	34 in	27 ½ in	Red	Royal	**4ZZ50**
15.0 cu ft	600 lb	36 in	26 in	34 in	33 ½ in	Blue	Tough Guy	**33W323**
	600 lb	36 in	26 in	34 in	33 ½ in	Red	Tough Guy	**33W324**
17.8 cu ft	600 lb	40 in	28 in	34 in	27 ½ in	Blue	Royal	**9JER1**
19.4 cu ft	600 lb	40 in	28 in	36 ½ in	30 in	Blue	Royal	**9GFD7**
	600 lb	40 in	28 in	36 ½ in	30 in	Red	Royal	**9JEP6**

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Brand	Item No.
Phenolic Caster Wheel/Tread							
1,600 lb	48 in	24 in	9 in	39 ¼ in	6 in	—	**3BE78**
	54 in	27 in	9 in	39 ¼ in	6 in	—	**3BE79**
2,000 lb	48 in	24 in	9 in	39 in	5 in	Jamco	**16C688**
	48 in	24 in	9 in	39 in	6 in	—	**13X490** *
	48 in	30 in	9 in	39 in	5 in	Jamco	**16C692**
	48 in	30 in	9 in	39 in	6 in	—	**13X491**
	60 in	30 in	9 in	39 in	5 in	Jamco	**16C693**
	60 in	30 in	9 in	39 in	6 in	—	**13X492** *
3,600 lb	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN57**
4,000 lb	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN56**
Polyolefin Caster Wheel/Tread							
2,500 lb	60 in	30 in	11 ¼ in	42 ¼ in	8 in	—	**3BE80**
Polyurethane Caster Wheel/Tread							
1,200 lb	32 in	18 in	6 in	34 in	5 in	—	**13X507** *
	36 in	24 in	6 in	34 in	5 in	—	**13X508** *
	36 in	24 in	12 ⅞ in	40 in	8 in	—	**49DM83**
	48 in	24 in	6 in	34 in	5 in	—	**13X509** *
	48 in	24 in	7 ¾ in	35 ½ in	5 in	Little Giant	**8DK84**
	48 in	24 in	11 ⅜ in	38 ½ in	8 in	—	**49DM98**
	72 in	24 in	12 ⅞ in	40 in	8 in	—	**49DN29**
	72 in	30 in	9 in	39 in	5 in	Jamco	**16C665**
	72 in	36 in	11 ⅜ in	38 ½ in	8 in	—	**49DP34**
1,400 lb	36 in	18 in	9 ¼ in	36 ⅜ in	5 in	—	**49DN52**
	36 in	30 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN50**
	48 in	18 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN48**
	48 in	24 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN27**
	48 in	30 in	9 ¼ in	36 ⅜ in	5 in	—	**49DN53**
	48 in	36 in	9 ¼ in	36 ⅜ in	5 in	—	**49DN54**
	60 in	24 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN22**
	60 in	30 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN28**
	60 in	36 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN51**
	72 in	24 in	7 ¾ in	34 ⅞ in	5 in	—	**49DN49**
1,500 lb	48 in	30 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DN02**
2,000 lb	36 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN55**
2,400 lb	48 in	18 in	11 ⅜ in	38 ½ in	8 in	—	**49DN43**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN58**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM94**
3,600 lb	36 in	24 in	10 ⅝ in	37 ¾ in	6 in	—	**49DN08**
	48 in	24 in	10 ⅝ in	37 ¾ in	6 in	—	**49DN09**
	48 in	24 in	11 in	40 in	8 in	Little Giant	**16D330**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN70**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN71**
	60 in	30 in	12 ⅝ in	39 ¾ in	8 in	—	**49DN10**
	72 in	36 in	11 in	40 in	8 in	Little Giant	**16D349**
4,000 lb	48 in	24 in	11 ¼ in	42 ¼ in	8 in	—	**3BE81**
	60 in	30 in	14 in	43 ½ in	8 in	—	**13X501** *

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Brand	Item No.
Rubber Caster Wheel/Tread							
750 lb	42 in	24 in	6 ¼ in	41 ½ in	5 in	—	**3BE77**
1,200 lb	36 in	18 in	11 ⅜ in	38 ½ in	8 in	—	**49DP40**
	36 in	24 in	7 ¾ in	35 ½ in	5 in	Little Giant	**9T869**
	36 in	24 in	12 in	42 in	8 in	—	**13X483**
	36 in	24 in	12 ½ in	41 ½ in	9 in	Little Giant	**16D327**
	36 in	30 in	11 ⅜ in	38 ½ in	8 in	—	**49DN44**
	48 in	24 in	11 ⅛ in	38 ½ in	8 in	—	**49DM90**
	48 in	24 in	12 in	42 in	8 in	—	**13X484** *
	48 in	24 in	12 ⅞ in	40 in	8 in	—	**49DM84**
	48 in	30 in	11 ⅜ in	38 ½ in	8 in	—	**49DN59**
	48 in	30 in	12 in	42 in	8 in	Jamco	**16C633**
	48 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**19C192**
	60 in	24 in	12 in	42 in	8 in	—	**13X485** *
	60 in	24 in	12 ½ in	41 ½ in	9 in	Little Giant	**19G872**
	60 in	30 in	12 in	42 in	8 in	—	**13X486**
	60 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**16D347**
	60 in	30 in	12 ½ in	41 ½ in	9 in	Little Giant	**19C195**
	72 in	30 in	11 ⅜ in	38 ½ in	8 in	—	**49DN85**
	72 in	36 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DN60**
1,500 lb	36 in	24 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D326**
	36 in	24 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DM85**
	48 in	24 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D331**
	48 in	24 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DM87**
	48 in	30 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D337**
	60 in	30 in	8 ⅛ in	35 ¼ in	5 in	—	**49DP37**
	60 in	30 in	13 ½ in	42 ½ in	10 in	Little Giant	**16D344**
	60 in	30 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DM92**
	72 in	30 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DN03**
	72 in	36 in	13 ⅞ in	40 ⅞ in	10 in	—	**49DN04**
1,600 lb	48 in	24 in	11 ¾ in	42 ¾ in	9 in	—	**3BE83**
2,000 lb	36 in	24 in	9 ⅛ in	36 ¼ in	6 in	—	**49DM86**
	48 in	24 in	9 in	38 in	6 in	Little Giant	**16D335**
	48 in	30 in	9 in	38 in	6 in	Little Giant	**16D341**
	60 in	24 in	9 ⅛ in	36 ¼ in	6 in	—	**49DN86**
	60 in	30 in	9 in	38 in	6 in	Little Giant	**16D348**
	60 in	30 in	9 ⅛ in	36 ¼ in	6 in	—	**49DP26**
	60 in	36 in	9 in	38 in	6 in	Little Giant	**19G876**
	72 in	30 in	9 in	38 in	6 in	Little Giant	**19G875**
	72 in	36 in	9 in	38 in	6 in	Little Giant	**19G877**
2,400 lb	36 in	24 in	11 in	40 in	8 in	Little Giant	**19G864**
	36 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN83**
	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM88**
	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM89**
	48 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM91**
	60 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN80**
	60 in	30 in	11 in	40 in	8 in	Little Giant	**16D345**
	60 in	36 in	11 in	40 in	8 in	Little Giant	**19G871**
	60 in	36 in	11 ⅜ in	40 ¾ in	8 in	—	**49DN45**
	60 in	36 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN82**
	72 in	30 in	11 in	40 in	8 in	Little Giant	**19G870**
	72 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN81**
	72 in	36 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM95**
	72 in	36 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM96**
2,500 lb	60 in	30 in	13 ¾ in	44 ¾ in	10 in	—	**3BE84**
3,000 lb	60 in	30 in	14 in	43 ½ in	8 in	—	**13X497** *
3,600 lb	48 in	24 in	11 ⅛ in	38 ¼ in	8 in	—	**49DN68**
	60 in	30 in	11 ⅛ in	38 ¼ in	8 in	—	**49DM93**

** 4 swivel, 2 rigid casters.*

General Purpose Steel-Deck Platform Trucks

Platform trucks with a steel deck provide good strength for transporting a wide variety of materials. They are commonly used for moving raw materials, packages, tools, and equipment in warehouses, factories, loading docks, stock rooms, and mail rooms. All have two swivel and two rigid casters, except as noted.

16D330

13X486

Narrow Steel-Deck Platform Trucks

These platform trucks have a long, narrow steel deck with tall handles at the ends. Also called U-boat platform trucks, they are used for moving tall stacks of packaged goods and other boxed items. The trucks can pivot 360° when maneuvering in tight spaces such as aisles in warehouses, supermarkets, retail stores, and stock rooms. All have four swivel and two rigid casters, except as noted.

4VMC5

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Color	Brand	Item No.
Solid Deck with Ribbed Surface								
1,500 lb	54 in	16 ¼ in	—	33 ¾ in	Phenolic	Gray	Raymond Products	**4ADJ2** *
Solid Deck with Smooth Surface								
2,000 lb	48 in	16 in	10 ¾ in	60 ¼ in	Polyurethane	Red	Dayton	**4VMC7**
			10 ¾ in	60 ¼ in	Polyurethane	Gray	Dayton	**4VMC9**
			10 in	58 in	Polyurethane	Blue, Gray	Little Giant	**19G785**
			10 in	58 in	Polyurethane	Blue, Gray	Little Giant	**49Y571**
		24 in	11 ⅛ in	57 ¼ in	Rubber	Gray	—	**49DN78**
	60 in	16 in	10 ¾ in	60 ¼ in	Polyurethane	Red	Dayton	**4VMC5**
		24 in	10 ¾ in	60 ¼ in	Polyurethane	Red	Dayton	**4VMC6**
		16 in	10 ¾ in	60 ¼ in	Polyurethane	Gray	Dayton	**4VMC8**
			10 in	58 in	Polyurethane	Blue, Gray	Little Giant	**19G786**
		24 in	10 in	58 in	Rubber	Blue, Gray	Little Giant	**19G789**
		16 in	10 in	58 in	Polyurethane	Blue, Gray	Little Giant	**49Y572**
	63 ½ in		9 ½ in	61 ¾ in	Polyurethane	Red	Dayton	**4VMD7**
	72 in	18 in	11 ⅛ in	57 ¼ in	Polyurethane	Gray	—	**49DN01**

** 4 swivel casters.*

High-Capacity Steel-Deck Platform Trucks

High-capacity steel-deck platform trucks have two large-diameter, rigid, axle-mounted wheels that let the trucks bear heavy loads and start rolling more easily when loaded than other steel-deck platform trucks. They also have two swivel casters that allow them to maneuver around curves and obstacles. Suitable for moving molds, dies, metal sheets and coils, and other heavy equipment in industrial locations such as manufacturing plants, warehouses, and construction sites.

19G887

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.
Solid Deck with Ribbed Surface							
1,750 lb	48 in	30 in	13 ⅞ in	43 ¼ in	Phenolic	—	**49DP12**
	60 in	36 in	13 ⅞ in	43 ¼ in	Rubber	—	**49DP14**
	72 in	30 in	13 ⅞ in	43 ¼ in	Rubber	—	**49DP13**
Solid Deck with Smooth Surface							
2,500 lb	72 in	30 in	21 in	41 in	Rubber	Little Giant	**39E660**
3,000 lb	48 in	24 in	13 ⅝ in	40 ¾ in	Rubber	—	**49DP07**
	48 in	30 in	13 ⅝ in	40 ¾ in	Phenolic	—	**49DP08**
	48 in	30 in	13 ⅝ in	43 ⅛ in	Polyurethane	—	**49DN23**
	48 in	30 in	18 ⅞ in	48 ⅜ in	Rubber	—	**49DP05**
	60 in	30 in	13 ⅝ in	40 ¾ in	Phenolic	—	**49DP09**
	60 in	36 in	13 ⅝ in	40 ¾ in	Phenolic	—	**49DP10**
	60 in	36 in	16 ½ in	43 in	Rubber	Little Giant	**19G887**
	60 in	36 in	18 ⅞ in	48 ⅜ in	Rubber	—	**49DP06**
	72 in	30 in	13 ⅝ in	43 ⅛ in	Rubber	—	**49DN87**
	72 in	36 in	13 ⅝ in	40 ¾ in	Phenolic	—	**49DP11**
4,000 lb	48 in	30 in	16 ½ in	43 in	Phenolic	Little Giant	**8NAT9**
5,000 lb	72 in	30 in	16 ½ in	43 in	Phenolic	Little Giant	**39E665**

Diamond Caster/
Wheel Mounting
49DN24

6-Wheel Caster/
Wheel Mounting
49DN15

High-Maneuverability Steel-Deck Platform Trucks

High-maneuverability steel-deck platform trucks have a caster configuration that lets them make tighter turns and navigate more easily in warehouse aisles and similar tight spaces than other styles of platform trucks. Carts with a **diamond** caster/wheel configuration have two swivel casters and two rigid casters. Carts with a **6-wheel** caster/wheel configuration have four swivel casters and two rigid casters and provide more stability than carts with fewer casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Brand	Item No.
Diamond Caster/Wheel Mounting							
1,000 lb	36 in	24 in	7 ¾ in	35 ½ in	Rubber	Little Giant	**8DFE3**
1,200 lb	36 in	24 in	9 in	39 in	Polyurethane	Jamco	**16C610**
	48 in	24 in	9 in	39 in	Polyurethane	Jamco	**16C611**
	60 in	24 in	9 in	39 in	Polyurethane	Jamco	**16C612**
	60 in	30 in	9 in	39 in	Polyurethane	Jamco	**16C616**
1,400 lb	32 in	18 in	7 ¾ in	34 ⅞ in	Polyurethane	—	**49DN07**
	36 in	30 in	7 ¾ in	34 ⅞ in	Rubber	—	**49DN41**
	48 in	24 in	7 ¾ in	34 ⅞ in	Polyurethane	—	**49DN25**
	48 in	36 in	7 ¾ in	34 ⅞ in	Polyurethane	—	**49DN42**
	60 in	24 in	7 ¾ in	34 ⅞ in	Rubber	—	**49DN24**
6-Wheel Caster/Wheel Mounting							
3,600 lb	48 in	24 in	9 ⅛ in	36 ¼ in	Polyurethane	—	**49DN15**
	48 in	30 in	9 ⅛ in	36 ¼ in	Polyurethane	—	**49DN17**
	60 in	24 in	9 ⅛ in	36 ¼ in	Polyurethane	—	**49DN16**
	60 in	30 in	9 ⅛ in	36 ¼ in	Polyurethane	—	**49DN18**
	72 in	36 in	9 ⅛ in	36 ¼ in	Polyurethane	—	**49DN19**

Steel-Deck Platform Trucks with Compact Folding Handles

The handles on these platform trucks fold down to save space when the trucks are not in use. These trucks are used in applications where they will be taken to different job sites or where there is minimal space for storing the carts. All have two swivel casters and two rigid casters.

33H179

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Item No.
440 lb	29 ⅜ in	19 in	5 ⅝ in	45 ⅝ in	4 in	**33H178**
660 lb	36 in	24 ¼ in	7 in	47 in	5 in	**33H179**

(3) Removable Panels
49DP17

Load-Securing Steel-Deck Platform Trucks

These steel-deck platform trucks have side panels that install onto three or four sides of the trucks' deck to keep items from falling off while the trucks are moving. The panels can be removed to facilitate loading and unloading. All of these trucks have two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Brand	Item No.
(3) Removable Panels							
2,000 lb	48 in	24 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V42**
	60 in	30 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V38**
3,600 lb	48 in	24 in	9 ⅛ in	42 ¾ in	Polyurethane	—	**49DP15**
	48 in	30 in	9 ⅛ in	42 ¾ in	Polyurethane	—	**49DP16**
	60 in	24 in	9 in	45 in	Rubber	Little Giant	**49Y509**
	60 in	30 in	9 ⅛ in	42 ¾ in	Polyurethane	—	**49DP17**
(4) Removable Panels							
2,000 lb	48 in	24 in	11 ⅛ in	38 ¼ in	Rubber	Durham Mfg	**488V44**
	60 in	30 in	—	38 ¼ in	Rubber	Durham Mfg	**488V40**

49DM82

Combination Shelf & Platform Steel-Deck Platform Trucks

The long bottom deck on these platform trucks can accommodate bulky or lengthy items. The trucks' short upper shelves can hold tools, equipment, and other small items. All of these trucks have two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
1,200 lb	48 in	24 in	8 in	36 ⅝ in	Rubber	**49DM82**
	60 in	30 in	8 in	36 ⅝ in	Polyurethane	**49DN26**

13X503

Towable Steel-Deck Platform Trucks

Towable platform trucks have a drawbar and hitch and can be attached to towing equipment or connected to other towable platform trucks. They also have a handle and can be manually pushed or pulled, and the handle can be removed to make room for oversized objects. Suitable for industrial applications where items need to be picked with a platform truck and then moved to another area using powered towing equipment. All have four swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
2,000 lb	60 in	30 in	11 in	41 in	Rubber	**13X503**
	60 in	36 in	11 in	41 in	Rubber	**13X504**
	72 in	30 in	11 in	41 in	Rubber	**13X505**
	72 in	36 in	11 in	41 in	Rubber	**13X506**

Truck w/ Ribbed Surface 5PVZ6

Narrow Truck w/ Smooth Surface & Tall Handles 22NP38

Aluminum-Deck Platform Trucks

Aluminum-deck platform trucks resist corrosion and are lighter than platform trucks with stainless-steel or steel decks. **Compact folding handles** collapse to save space when storing the trucks. **Extendable decks** can be pulled out to allow the trucks to carry large items. **Narrow decks** can maneuver in aisles and other tight spaces. **Tall handles** prevent tall stacks of packaged goods and other boxed items from falling off the trucks as they're moving.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Brand	Item No.	
Platform Trucks								
Solid Deck with Ribbed Surface								
2,000 lb	36 in	24 in	8 ½ in	41 in	Polyolefin	Dayton	**13X471**	
	48 in	24 in	8 ½ in	41 in	Polyolefin	Dayton	**13X472**	*
	48 in	30 in	8 ½ in	41 in	Polyolefin	Dayton	**13X473**	
	60 in	30 in	8 ½ in	41 in	Polyolefin	Dayton	**13X474**	
	60 in	36 in	8 ½ in	41 in	Polyolefin	Dayton	**13X475**	*
2,400 lb	60 in	30 in	12 in	44 in	Rubber	Dayton	**13X476**	*
	60 in	36 in	12 in	44 in	Rubber	Dayton	**13X477**	
	72 in	36 in	12 in	44 in	Rubber	Dayton	**13X478**	
2,800 lb	36 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ6**	
	48 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ8**	
	48 in	30 in	9 ½ in	41 in	Thermoplastic Rubber	Magliner	**5PWA0**	
Solid Deck with Smooth Surface								
2,000 lb	36 in	24 in	10 in	42 in	Rubber	Dayton	**13X463**	
	48 in	24 in	10 in	42 in	Rubber	Dayton	**13X464**	
	48 in	30 in	10 in	42 in	Rubber	Dayton	**13X465**	
	60 in	36 in	10 in	42 in	Rubber	Dayton	**13X467**	
2,800 lb	36 in	24 in	12 ½ in	39 in	Rubber	Magliner	**5PVZ5**	
	48 in	24 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ7**	
	48 in	30 in	12 ½ in	39 in	Thermoplastic Rubber	Magliner	**5PVZ9**	
3,000 lb	60 in	30 in	11 ½ in	44 in	Phenolic	Dayton	**13X468**	
	72 in	36 in	11 ½ in	44 in	Phenolic	Dayton	**13X470**	
Platform Trucks with Compact Folding Handles								
Grated Deck with Ribbed Surface								
1,500 lb	61 ⅞ in	23 ¼ in	10 in	39 in	Thermoplastic Rubber	Magliner	**59UZ05**	*
Solid Deck with Ribbed Surface								
330 lb	29 ½ in	18 ½ in	7 ¾ in	35 ¾ in		—	**33H180**	
	30 in	18 in	6 in	35 ½ in	Rubber	—	**2PLG4**	*
400 lb	30 in	18 ½ in	7 ⅜ in	33 ½ in	Polyurethane	—	**36JP52**	
550 lb	35 ½ in	24 in	7 ¾ in	37 ⅜ in	Polyurethane	—	**33H181**	
	36 in	24 in	7 ¾ in	37 ½ in	Rubber	—	**2PLG5**	
660 lb	48 in	24 in	7 ¾ in	37 ½ in	Rubber	—	**2PLG6**	
770 lb	60 in	30 in	7 ¾ in	37 ½ in	Rubber	—	**2PLG7**	*
Tube Deck with Smooth Surface								
300 lb	16 ½ in	16 in	6 ½ in	9 in	Rubber	—	**49EL85**	
Platform Trucks with Compact Folding Handles & Extendable Deck								
Tube Deck with Smooth Surface								
250 lb	19 ¾ in	17 ½ in	6 ½ in	37 ½ in	Rubber	—	**2TUT8**	
Platform Trucks with Narrow Deck								
Solid Deck with Smooth Surface								
1,200 lb	60 in	16 in	10 in	59 in	Thermoplastic Rubber	Magliner	**22NP38**	*
1,800 lb	60 in	18 in	10 in	59 in	Thermoplastic Rubber	Magliner	**22NP39**	*
Platform Trucks with Narrow Deck & Folding Handles								
Solid Deck with Smooth Surface								
1,200 lb	61 in	18 in	9 ⅛ in	63 in	Polyurethane	New Age	**12G971**	*

** (4) swivel, (2) rigid casters.*

Platform Truck 8WC38

Narrow Truck w/ Tall Handles 4VMD1

General Purpose Wooden-Deck Platform Trucks

Wooden-deck platform trucks make less noise and are less likely to damage delicate materials and finishes on products carried on the trucks than metal-deck platform trucks. **General purpose** trucks are suitable for a wide range of applications. They have two swivel and two rigid casters unless noted otherwise. **Narrow tall-handle** trucks are used for moving tall stacks of packaged goods and other boxed items. They have a combination of two rigid casters and four swivel casters and can pivot 360° when maneuvering in warehouse aisles and other tight spaces.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Brand	Item No.	
General Purpose Wooden-Deck Platform Trucks									
1,200 lb	48 in	24 in	11 ½ in	35 ⅞ in	Rubber	8 in	Fairbanks	**8ZLX9**	
	60 in	30 in	10 in	40 in	Polyurethane	5 in	Jamco	**16C575**	
1,400 lb	30 in	18 in	8 ½ in	32 ⅞ in	Rubber	5 in	Fairbanks	**9WTU0**	
	48 in	24 in	8 ½ in	32 ⅞ in	Phenolic	5 in	Fairbanks	**8WC38**	
	48 in	24 in	14 in	36 ¼ in	Rubber	10 in	Westward	**48XK58**	
	48 in	24 in	14 in	36 in	Rubber	10 in	Westward	**48XK56**	
	48 in	30 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK69**	
	60 in	30 in	8 ½ in	32 ⅞ in	Polyurethane	5 in	Fairbanks	**9E653**	
	60 in	30 in	11 ½ in	39 ⅛ in	Rubber	8 in	Fairbanks	**9NWZ6**	
	60 in	30 in	14 in	36 in	Polyurethane	10 in	Westward	**48XK50**	
	60 in	30 in	14 in	36 ¼ in	Rubber	10 in	Westward	**48XK52**	
2,000 lb	48 in	24 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK57**	
	48 in	24 in	11 ½ in	34 ¼ in	Rubber	8 in	Westward	**48XK59**	
	48 in	30 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK67**	
	54 in	27 in	11 ½ in	33 ½ in	Rubber	8 in	Westward	**48XK55**	
	60 in	30 in	11 ½ in	33 ½ in	Mold-On Rubber	8 in	Westward	**48XK51**	
	60 in	30 in	11 ½ in	34 ¼ in	Rubber	8 in	Westward	**48XK53**	
	72 in	36 in	11 ½ in	33 ½ in	Plastic	8 in	Westward	**48XK66**	
2,200 lb	72 in	36 in	9 ¼ in	34 ¼ in	Plastic	6 in	Fairbanks	**18F436**	
2,500 lb	60 in	30 in	11 ½ in	36 ½ in	Plastic	8 in	Fairbanks	**18F434**	
2,600 lb	48 in	24 in	8 ½ in	31 ¼ in	Plastic	5 in	Westward	**48XK62**	
	54 in	27 in	8 ½ in	31 ¼ in	Plastic	5 in	Westward	**48XK61**	
2,800 lb	60 in	30 in	9 ¼ in	31 ¼ in	Plastic	6 in	Westward	**48XK63**	
	60 in	30 in	9 ¼ in	32 ¼ in	Rubber	6 in	Westward	**48XK60**	
Narrow Wooden-Deck Platform Trucks for Confined Spaces									
2,000 lb	48 in	16 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD3**	*
	60 in	16 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD1**	*
	60 in	24 in	11 ¾ in	61 in	Polyurethane	8 in	Dayton	**4VMD2**	*

** 2 rigid, 4 swivel casters*

High-Strength Stainless-Steel-Deck Platform Trucks

2TUH3

Platform trucks with a stainless-steel deck are stronger and more corrosion-resistant than aluminum-deck platform trucks, and they have a polished finish that eases cleanup. Suitable for labs, medical facilities, food- and beverage-manufacturing plants, and other areas where the trucks will be cleaned and washed down often. All have two swivel and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Brand	Item No.
1,200 lb	30 in	18 in	9 in	39 in	Rubber	5 in	Jamco	**8CA55**
	36 in	18 in	9 in	39 in	Polyurethane	5 in	—	**2TUH3**
		24 in	9 in	39 in	Polyurethane	5 in	—	**2TUH4**
		24 in	9 in	39 in	Polyurethane	5 in	Jamco	**8CA56**
		24 in	9 in	39 in	Phenolic	5 in	Jamco	**9NP54**
	48 in	24 in	9 in	39 in	Polyurethane	5 in	—	**2TUH5**
		24 in	9 in	39 in	Polyurethane	5 in	Jamco	**8CAE9**
		24 in	9 in	39 in	Rubber	5 in	Jamco	**9EVL7**
	60 in	30 in	9 in	39 in	Polyurethane	5 in	—	**2TUH6**
		30 in	9 in	39 in	Rubber	5 in	Jamco	**9CHK7**
		30 in	9 in	39 in	Rubber	5 in	Jamco	**9PN48**

9WJE4

Load-Securing Wooden-Deck Platform Trucks

Load-securing wooden-deck platform trucks have side panels that install onto three or four sides of the trucks' deck to keep items from falling off while the trucks are moving. The panels can be removed to facilitate loading and unloading. All of these trucks have two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/ Tread Material	Caster Wheel Dia.	Item No.
(3) Removable Panels							
1,200 lb	48 in	24 in	10 in	40 in	Polyurethane	5 in	**16C057**
(4) Removable Panels							
1,200 lb	48 in	24 in	10 in	40 in	Polyurethane	5 in	**8DV33**
	60 in	30 in	10 in	40 in	Polyurethane	5 in	**9WJE4**

443X60

DURHAM MFG Est. 1922 · LITTLE GIANT

Work-Height Wooden-Deck Platform Trucks

Work-height wooden-deck platform trucks have high decks that minimize lifting and bending when moving items between the trucks and high surfaces such as storage racks, work tables, conveyors, or receiving stations. All have two swivel and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Caster Wheel Dia.	Brand	Item No.
1,800 lb	48 in	24 in	26 ½ in	40 ⅛ in	Rubber	8 in	Durham Mfg	443X62
	48 in	24 in	26 ¾ in to 35 ¾ in	49 ⅜ in	Rubber	8 in	Durham Mfg	443X60
	60 in	30 in	26 ½ in	40 ⅛ in	Rubber	8 in	Durham Mfg	443X63
	60 in	30 in	26 ¾ in to 35 ¾ in	49 ⅜ in	Rubber	8 in	Durham Mfg	443X61
2,000 lb	48 in	24 in	24 in to 34 in	48 in	Rubber	6 in	Little Giant	49Y652
	48 in	24 in	26 in	40 in	Polyurethane	6 in	Little Giant	49Y651
	48 in	30 in	24 in to 34 in	48 in	Rubber	6 in	Little Giant	49Y656
	48 in	30 in	26 in	40 in	Rubber	6 in	Little Giant	49Y655
	60 in	24 in	24 in to 34 in	48 in	Rubber	6 in	Little Giant	49Y654
	60 in	24 in	26 in	40 in	Rubber	6 in	Little Giant	49Y653
	60 in	30 in	24 in to 34 in	48 in	Rubber	6 in	Little Giant	49Y658
	60 in	30 in	26 in	40 in	Rubber	6 in	Little Giant	49Y657

Single End
4AAV3

Dual Ends
2TUK8

Rubbermaid Commercial Products · R.W. Rogers Company · Dayton · AKRO-MILS® · Jamco Products

General Purpose Plastic-Deck Platform Trucks

The plastic deck on these platform trucks resists damage from impacts and exposure to chemicals and moisture. The trucks have a high strength-to-weight ratio and are used in settings such as retail stores, warehouses, construction sites, and manufacturing facilities. All have two swivel and two rigid casters unless noted otherwise. **Single-end** trucks have one handle. **Dual-end** trucks have two handles.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Brand	Item No.	
Solid Deck with Ribbed Surface								
Single End								
1,000 lb	36 in	24 in	9 ¼ in	39 ¾ in	Thermoplastic	Rubbermaid	4AAU8	
1,200 lb	48 in	24 in	11 ¾ in	41 ¾ in	Pneumatic	Rubbermaid	4AAV6	
2,000 lb	36 in	24 in	9 ¼ in	39 ¾ in	Polyolefin	Rubbermaid	4AAU9	
	48 in	24 in	11 ¼ in	41 ¾ in	Thermoplastic	Rubbermaid	4AAV1	
	48 in	24 in	9 in	39 ½ in	Rubber	R.W. Rogers	6WZL7	
	60 in	30 in	11 ¼ in	41 ⅝ in	Thermoplastic	Rubbermaid	4AAV3	
	60 in	30 in	9 in	40 ½ in	Rubber	R.W. Rogers	6WZL8	
2,500 lb	48 in	24 in	11 ¼ in	41 ¾ in	Polyolefin	Rubbermaid	4AAV2	
	60 in	30 in	11 ¼ in	41 ⅝ in	Polyolefin	Rubbermaid	4AAV5	
Dual Ends								
880 lb	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUL3	
2,200 lb	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUL1	
Solid Deck with Smooth Surface								
Single End								
2,000 lb	48 in	24 in	12 ¼ in	41 ½ in	Polyurethane	Akro-Mils	44U434	
2,500 lb	48 in	24 in	10 in	40 in	Phenolic	Jamco	20WU28	
	60 in	30 in	10 in	40 in	Phenolic	Jamco	20WU29	
3,000 lb	48 in	24 in	12 ¼ in	41 ½ in	Polyolefin	Akro-Mils	44U462	
Dual Ends								
880 lb	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUL2	
2,200 lb	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUK9	
3,300 lb	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUK7	
	60 in	30 in	11 in	40 in	Polyurethane	Dayton	2TUK8	*

** (4) Swivel, (2) Rigid casters.*

With E-Track Fittings
40AL31

With Sides
4AAN1

SNAP-LOC · Rubbermaid Commercial Products

Load-Securing Plastic-Deck Platform Trucks

- 2 rigid/2 swivel casters
- Trucks w/ E-track fittings have brake
- 40AL31 is red; all others are black

Load-securing plastic-deck platform trucks have either built-in E-track fittings or removable side panels. **E-track fittings** provide anchor points for attaching compatible straps to tie down large or bulky items. They can also be used with compatible mini-straps to connect multiple trucks together to create a larger truck. **Side panels** install onto all sides of the trucks' deck to keep items from falling off while the trucks are moving. They can be removed to facilitate loading and unloading.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel Dia.	Caster Wheel/Tread Material	Brand	Item No.
With E-Track Fittings								
Solid Deck with Non-Slip Surface								
1,500 lb	32 in	20 ½ in	7 in	38 in	4 in	Polyurethane	Snap-Loc	40AL31
	32 in	20 ½ in	7 in	38 in	4 in	Polyurethane	Snap-Loc	20UY86
	32 in	20 ½ in	7 in	38 in	6 in	Polyurethane	Snap-Loc	40AL28
	32 in	20 ½ in	9 ½ in	40 ½ in	6 in	Polyurethane	Snap-Loc	40AL25
With Side Panels								
Solid Deck with Ribbed Surface								
2,000 lb	48 in	24 in	8 in	41 in	8 in	Polyolefin	Rubbermaid	4AAN1

Plastic-Deck Platform Trucks with Compact Folding Handles

2TUT6

The handles on these platform trucks fold down to save space when the trucks are not in use. These trucks are used in applications where they will be taken to different job sites or where there is minimal space for storing the carts. All have a solid deck with ribbed surface as well as two swivel casters and two rigid casters.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.	
330 lb	28 in	18 in	6 in	36 in	Rubber	2TUT3	*
	28 in	18 in	6 in	36 in	Rubber	2TUT5	
660 lb	36 in	23 ½ in	8 in	38 in	Rubber	2TUT4	*
	36 in	23 ½ in	8 in	38 in	Rubber	2TUT6	

** Includes locking foot brake.*

Nestable Plastic-Deck Platform Trucks

R.W. Rogers Company

6WZL9

Nestable plastic-deck platform trucks have slanted, tapered decks that can raise in the back to allow multiple trucks to be pushed together to save space when the trucks are not in use. All of these trucks have a solid deck with ribbed surface.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Height	Caster Wheel/Tread Material	Item No.
2,000 lb	60 in	30 in	9 in	40 ½ in	Rubber	6WZN0
	48 in	24 in	9 in	39 ½ in	Rubber	6WZL9

26Y483

26Y460

26Y489

Jamco Products

Steel-Deck Wagon Trucks

Wagon trucks are typically pulled instead of pushed, and they have a front-mounted handle that lets users guide heavy loads and maneuver them around corners. **Lipped** deck has a lipped edge that stops items from sliding off it. **Flush** deck lets heavy items slide onto or off of the deck to reduce effort during loading and unloading. **Flow-through** deck has openings that let debris and liquid fall through it to keep the trucks clean when used in dirty or wet areas. **Towable** trucks have a T-bar handle with a ring and can be manually pushed or connected to towing equipment for occasional low-speed towing applications. All of these trucks are constructed of 12-ga. steel and all ship assembled, except 26Y475.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Width	Wheel Type	Brand	Item No.
Wagon Trucks with Lipped Metal Deck							
T-Shaped Handle							
2,000 lb	48"	24"	19"	25"	12" Pneumatic	Jamco	**8D334**
		30"	16½"	30"	12" Pneumatic	—	**26Y470**
3,000 lb		24"	18½"	24"	16" Pneumatic	—	**26Y471**
	72"	36"	18½"	36"	16" Pneumatic	—	**26Y474**
J-Shaped Handle							
1,000 lb	36"	24"	11¼"	24"	10"-Standard	—	**26Y475**
		24"	11¼"	24"	10"-Standard	—	**26Y483**
Wagon Trucks with Flush Metal Deck							
T-Shaped Handle							
2,000 lb	48"	24"	16½"	24"	12" Pneumatic	—	**26Y460**
		30"	16½"	30"	12" Pneumatic	—	**26Y465**
	60"	30"	16½"	30"	12" Pneumatic	—	**26Y461**
	72"	36"	16½"	36"	12" Pneumatic	—	**26Y462**
3,000 lb	48"	30"	18½"	30"	16" Pneumatic	—	**26Y466**
	60"	30"	18½"	30"	16" Pneumatic	—	**26Y467**
	72"	36"	18½"	36"	16" Pneumatic	—	**26Y468**
3,500 lb	48"	24"	16½"	24"	12"-Standard	—	**26Y457**
	60"	30"	16½"	30"	12"-Standard	—	**26Y458**
	72"	36"	16½"	36"	12"-Standard	—	**26Y459**
Wagon Trucks with Flow-Through Lipped Metal Deck							
J-Shaped Handle							
1,000 lb	36"	24"	11¼"	24"	10"-Standard	—	**26Y489**
		24"	11¼"	24"	10" Pneumatic	—	**26Y490**
Towable Wagon Trucks with Flush Metal Deck							
T-Shaped Handle							
2,500 lb	48"	30"	18½"	30"	16" Pneumatic	—	**26Y485**
	60"	30"	18½"	30"	16" Pneumatic	—	**26Y486**

12X312

12X315

Wagon Trucks with Flow-Through High-Volume Side-Panel Metal Deck

- Overall height, with sides: 21 ½ in (12X312); 26 in (12X313); 24 in (12X315)

The perforated metal deck on these wagon trucks has openings that let debris and liquid fall through it, which helps keep the wagons clean when used in dirty or wet areas. The wagons' side walls stop loads from falling off and can be folded down or removed to reduce straining and lifting when loading or unloading heavy items. Trucks ship unassembled.

Load Capacity	Deck Length	Deck Width	Deck Height	Overall Width	Frame Gauge	Wheel Dia.	Wheel Type	Item No.
400 lb	34 in	18 in	13 ½ in	20 in	18 ga	10 in	Pneumatic	**12X312**
1,000 lb	48 in	22 in	16 ⅜ in	24 in	18 ga	13 in	Pneumatic	**12X313**
1,400 lb	60 in	31 in	15 ¼ in	31 in	16 ga	13 in	Pneumatic	**12X315**

Bins sold separately, available on Grainger.com

Wire-Spool Dispensing Cart

This cart has spindles that hold spools of wire and allow quick access for replacing spools. Wire guides under the cart's work surface hold wire ends for dispensing and cutting. The cart has louvered panels for attaching bins, shelves, and other optional accessories that hold items that are not stored on spools. Shipped assembled. 1200-lb. load capacity. Comes with two swivel and two rigid casters.

Overall Length	Overall Width	Overall Height	Item No.
32 ¼ in	18 ⅛ in	46 ⅛ in	**5LVF8**

GB Gardner Bender

Two-Wheel Wire-Dispensing Carts

15V950

These carts have two semipneumatic wheels and can be tilted and rolled like a hand truck. They have multiple spindles that hold wire and other materials stored on reels or spools. The spindles can be removed when replacing spools and reels. Wire guides keep the ends of wires accessible and organized for dispensing.

Load Capacity	No. of Spindles	Overall Length	Overall Width	Overall Height	Item No.
300 lb	4	22 in	16 in	43 in	**15V949**
400 lb	5	22 in	18 ½ in	43 in	**15V950**
700 lb	5	22 in	18 ½ in	59 in	**15V951**

A-Frame
4ZJ29

Single-Height w/ Adjustable Rails
30F040

Single-Height w/ Fixed Rails
4ZJ28

Single-Height w/ Nonmarring Adjustable Rails
30F027

Sloped-Frame
423P52

Dayton® LITTLE GIANT Rubbermaid Commercial Products DURHAM MFG Est. 1922

Panel Trucks

The frame on these trucks supports long, thin panels or sheets. Also known as drywall carts, these trucks are used to store or move items such as drywall, plywood, glass panels, and partitions. The trucks' flush platform lets items slide onto and off of the carts during loading and unloading. All have two swivel and two rigid casters, unless noted otherwise. **A-frame** and **sloped-frame** trucks allow panels to lean toward the trucks' center to keep them balanced during transport. Sloped-frame trucks can be loaded from one side. A-frame trucks can be loaded from two sides. **Single-height vertical** trucks keep panels oriented at 90° to the trucks' deck and are all the same height. **Adjustable rails** can be repositioned or removed to make room for items of different sizes and save space when storing the trucks. **Fixed rails** uprights cannot be moved. **Nonmarring rails** have a vinyl coating that helps prevent damage to delicate finishes or surfaces.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	Number of Rails	Brand	Item No.
A-Frame Panel Trucks							
2,000 lb	48 ½ in	30 in	56 ½ in	9 ⅛ in	1	—	1TGN2 †
	48 ½ in	57 in	24 in	10 ⅝ in	1	—	16C867 *
	75 ½ in	36 ½ in	55 in	8 ¼ in	—	Dayton	4ZJ29
3,600 lb	60 in	24 in	57 in	9 ⅛ in	—	Little Giant	39E673 †
Single-Height Vertical Panel Trucks with Adjustable Rails							
1,000 lb	39 ½ in	24 ½ in	34 in	7 ⅝ in	3	—	19C202
1,400 lb	31 ½ in	28 ½ in	34 in	7 ⅝ in	3	—	2TUJ5 †
	31 in	28 in	34 ½ in	10 in	3	—	2TUJ6 †
1,500 lb	54 in	16 ½ in	35 in	7 ¼ in	2	Dayton	30F041
2,000 lb	31 ½ in	28 ½ in	34 in	8 ⅛ in	3	—	2TUJ4 †
	48 in	24 in	39 in	11 ¼ in	3	Rubbermaid	4AAL6
	51 ½ in	30 in	36 in	9 ⅛ in	2	—	8RML0
	63 ½ in	30 in	36 in	9 ⅛ in	2	—	8DVA8
3,200 lb	54 in	30 in	38 ½ in	7 ¼ in	4	Dayton	30F040 †
3,600 lb	39 ½ in	24 in	36 in	9 ⅛ in	2	—	5DZA1
	51 ½ in	24 in	36 in	9 ¼ in	—	—	5DZA2
	51 ½ in	30 in	36 in	9 ⅛ in	3	—	8DVA9
	63 ½ in	30 in	36 in	9 ⅛ in	2	—	5DZA5
	63 ½ in	36 in	36 in	9 ⅛ in	2	—	5DZA6
	75 ½ in	24 in	36 in	9 ⅛ in	2	—	49Y486
	75 ½ in	30 in	36 in	9 ⅛ in	2	—	49Y487
Single-Height Vertical Panel Trucks with Fixed Rails							
4,000 lb	35 ½ in	30 ½ in	38 in	8 ½ in	3	Dayton	4ZJ28
Single-Height Vertical Panel Trucks with Nonmarring Adjustable Rails							
2,400 lb	38 ½ in	27 ½ in	34 in	6 in	3	Dayton	30F022
	38 ½ in	27 ½ in	34 in	6 in	3	Dayton	30F027 †
	38 ½ in	27 ½ in	34 in	6 in	3	Dayton	30F024
	38 ½ in	27 ½ in	56 in	6 in	3	Dayton	30F035
Sloped-Frame Panel Trucks							
2,000 lb	44 in	24 in	51 in	13 ½ in	—	—	5DYZ2 †
3,000 lb	47 ½ in	20 ½ in	43 ½ in	13 ¼ in	1	Durham Mfg	459W36 †
	47 ½ in	23 ½ in	50 in	13 ¼ in	1	Durham Mfg	423P52 ‡
	47 ½ in	23 ½ in	50 in	13 ¼ in	1	Durham Mfg	459W34 †
	47 ½ in	30 in	52 in	13 ¼ in	1	Durham Mfg	459W33
	47 ½ in	30 in	52 in	13 ¼ in	1	Durham Mfg	459W35 †

** 2 swivel casters with brake, 2 rigid casters. † 4 swivel casters.*
‡ 2 swivel casters with brake, 2 swivel casters

Bar Cradle Truck
4DPZ9

Mobile Bar & Pipe Rack
4GA96

Jamco Products GREENLEE

Bar and Pipe Trucks

Bar and pipe trucks are used to organize, store, and transport pipe, bar stock, and other long items. 4GA96 and 6HHZ5 are collapsible.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	No. of Levels	Brand	Item No.
Cradle-Style Bar & Pipe Trucks							
Phenolic Wheels							
3,000 lb	24 in	28 in	34 ½ in	20 in	1	—	4DPZ9 †
	36 in	28 in	34 ½ in	20 in	1	—	49Y537 †
	48 in	28 in	34 ½ in	20 in	1	—	49Y538 †
5,000 lb	60 in	28 in	30 ½ in	15 ½ in	1	—	19C146
10,000 lb	60 in	28 ½ in	30 ½ in	15 ½ in	1	—	16A957
	96 in	28 ½ in	30 ½ in	15 ½ in	1	—	16A958
Mobile Bar & Pipe Racks							
Rubber Wheels							
4,000 lb	48 in	36 in	59 in	11 in	3	Jamco	9TAP7
	72 in	36 in	59 in	11 in	3	Jamco	8EFY9
Polyolefin Wheels							
1,000 lb	58 ½ in	34 in	63 ½ in	63 ½ in	4	Greenlee	4GA96
Phenolic Wheels							
1,200 lb	63 in	30 in	74 in	9 in	3	—	6HHZ5 †
3,600 lb	48 in	36 in	59 ½ in	11 ⅛ in	3	—	4DRA1 ‡
	60 in	36 in	59 ½ in	11 ⅛ in	3	—	4DRA2 ‡
	72 in	36 in	59 ½ in	11 ⅛ in	3	—	4DRA3 ‡
4,000 lb	48 in	36 in	59 ½ in	11 ⅛ in	3	—	16C885 *
	60 in	36 in	59 ½ in	11 ⅛ in	3	—	16C886

** 2 swivel casters with brake, 2 rigid casters. † 4 swivel casters. ‡ 4 swivel casters with brake.*

V-Groove Cradle-Style Bar and Pipe Truck

V-shaped cradle holds large sizes or bundles of long materials and prevents round items from rolling off the truck. Also known as a bar and pipe dolly and big-wheel cradle truck, this truck has two large pneumatic wheels that can roll over rough terrain or flooring. The truck's T-handle is used to push the truck and control its movement, and it is offset so the operator walks along-side the truck instead of behind it.

Load Capacity	Overall Length	Overall Width	Overall Height	Deck Height	Item No.
1,200 lb	58 in	34 ½ in	36 in	17 in	19C219

Dayton®

Table Carts

Vertical divider rails span the length of these carts to support round and rectangular tables that are being trans-ported on the carts. The rails can be removed to reduce effort during loading and unloading. The carts' frames have been coated with smooth vinyl to prevent damage to tables on the carts.

30F002

Load Capacity	Overall Length	Overall Width	Overall Height	For Maximum Number of Vertical Tables	Caster/Wheel Configuration	Brand	Item No.
1,000 lb	48 in	36 in	52 ¼	36	(4) Swivel With Brake	Dayton	30F008
1,600 lb	48 in	24 in	52 in	—	(2) Rigid, (2) Swivel	—	4ADC7
	48 in	32 ¾ in	51 ¼ in	33	(4) Swivel With Brake	Dayton	30F002

5CHN2

16A706

49Y120

Mobile Worktables

- Wood and powder-coat steel construction

Mobile Worktables—Gray and black. 5CHN2 includes flip-and-fold board with brackets.

- Shipped partially assembled
- 49Y116, 16A706, and 16A705 feature dual-folding extension boards
- Laminated work surface
- Casters (2 rigid, 2 swivel with brake)

Load Capacity	No. of Shelves	D	W	H	Item No.
Mobile Worktables					
200 lb	1	20 in	40 in	35 in to 42 in	**16A699**
	1	20 in	46 in	38 ¾ in	**5CHN2**
	1	26 in	20 in	35 in to 42 in	**16A697**
	1	26 in	68 in	35 in to 42 in	**49Y116**
	1	54 in	20 in	35 in to 42 in	**16A698**
300 lb	1	18 in	46 in	35 in to 42 in	**16A696**
	1	26 in	51 in	35 in to 40 in	**16A706**
	1	26 in	87 in	35 in to 40 in	**16A705**
Shop Desk					
300 lb	—	24 in	24 ⅜ in	49 in	**49Y120**

2WTR3

Mechanical Work Stands

- Polyurethane swivel casters, 2 double locking
- 11A566 and 11A567 have a red finish
- 2WTR4 and 2WTR3 have blue powder-coat platform and base

Platform height and tilt angle are manually adjusted.

Load Capacity	W	D	Height	Lip Height	Tilting Angle	Item No.
150 lb	21 in	20 in	28 in to 38 in	2 in	45 °	**11A566**
300 lb	24 in	20 in	31½ in to 42 in	3 in	30 °	**11A567**
330 lb	16 in	20 in	28 in to 42 in	1 ¼ in	40 °	**2WTR4**
330 lb	19 in	20 in	20 in to 28 in	1 ¼ in	40 °	**2WTR3**

5LVH8

5LVH9

Welded Steel Mobile Workstations

- Shipped assembled
- Casters (2 swivel, 2 rigid)
- Gray powder-coat finish

Load Capacity	D	W	H	Caster Material	Caster Dia.	Item No.
Mobile Workstations, Steel						
300 lb	23 ¼ in	24 ⅜ in	49⅜ in	Polyurethane	5 in	**49Y095**
4,000 lb	30 in	60 in	40 in	Phenolic	3 in	**49Y091**
	30 in	72 in	40 in	Phenolic	3 in	**49Y092**
	36 in	60 in	40 in	Phenolic	3 in	**49Y093**
Mobile Workstations, Stainless Steel						
300 lb	23 ¼ in	24 ⅜ in	49⅜ in	Polyurethane	5 in	**49Y096**
Workbench w/Pegboard Panel, Steel						
1,200 lb	42 ½ in	24 ½ in	66 in	Polyurethane	5 in	**5LVH9**
4,000 lb	30 in	60 in	40 in	Phenolic	3 in	**49Y088**
Workbench w/Louvered Panel, Steel						
1,200 lb	42 ½ in	18 ½ in	67 in	Polyurethane	5 in	**49Y085**
	42 ½ in	24 ½ in	66 in	Polyurethane	5 in	**5LVH8**
4,000 lb	36 in	60 in	40 in	Phenolic	3 in	**49Y090**

WESTWARD®

Mobile Cabinet Workbench

- Shipped assembled
- 5"-dia. casters (2 swivel, 2 rigid)
- Gray powder-coat finish
- Cabinet measures 25⅜"H x 16¹³⁄₁₆"W
- (4) 15⅝"W x 14¹¹⁄₁₆"D x 5⅞"H drawers

W	D	H	Item No.
36 in	24 in	36 ⅜ in	**52CK63**

Welded Steel Mobile Work Desk

- Shipped assembled
- 3" polyurethane swivel casters

Lockable security cage cabinet.

Load Capacity	D	W	H	Item No.
150 lb	22 in	22 in	50⅛ in	**1DE91**

6YE51

6YE53

Mobile Service Benches

- 5" casters (2 locking swivel, 2 rigid)
- Doors lock with included key
- Gray powder-coat finish

Feature removable top with steel back and end stops. Recessed-handle with roller drawers.

Description	Load Capacity	D	W	H	Drawer Width	Drawer Height	Drawer Depth	Door Cabinet Width	Door Cabinet Height	Item No.
2 Doors, Tubular Handle	1,200 lb	18 in	36 in	36 ½ in	—	—	—	18 in	26 in	**6YE51**
Wood Top, 1 Door, 4 Drawers, Tubular Handle	1,200 lb	18 in	36 in	38 ⅜ in	20 7/16 in	5 ⅞ in	14 11/16 in	11 ⅛ in	24 ¼ in	**6YE53**

4VM51

LISTA™

Modular Mobile Service Benches

- Shipped assembled; just attach handles
- 6" casters (2 swivel, 2 rigid)
- Steel construction with powder-coated finishes

Choose stainless steel, rubber mat, or 1¾" hardwood working surface. Drawers automatically latch when closed. All cabinets feature patented PrevenTip® lock that prevents cabinets from tipping over. Cabinets with 17 drawers and up have 6 casters (4 swivel, 2 rigid).

Description	Width	Depth	Height	Work Surface Material	Drawer Width	Usable Drawer Height	Color	Item No.
165 lb Drawer Load Rating								
5 Drawers	22 ¼ in	28 ½ in	35 ½ in	Rubber Mat	18 in	(1) 5 in, (1) 7 in, (2) 2 in, (2) 3 in	Classic Blue	**3W545**
5-Drawers, 1-Door	39 in	28 ½ in	37 ¼ in	Butcher Block	18 in	—	Classic Blue	**4VM51**
6 Drawers	28 ¼ in	22 ½ in	43 ¼ in	Butcher Block	24 in	(1) 5 in, (1) 9 in, (2) 2 in, (2) 3 in	Bright Blue	**4VZU3**
440 lb Drawer Load Rating								
6 Drawers	40 ¼ in	22 ½ in	43 ¼ in	Rubber Mat	36 in	(1) 5 in, (1) 9 in, (2) 2 in, (2) 3 in	Bright Blue	**4VZT8**
10 Drawers	60 in	28 in	42 in	Butcher Block	3 ⅛ in, 43 in, 52 ¼ in	(1) 10 in, (1) 5 in, (2) 4 in, (3) 2 in, (3) 3 in	Bright Blue	**52JU47**
	60 in	28 in	42 in	Stainless Steel	3 ⅛ in, 43 in, 52 ¼ in	(1) 10 in, (1) 5 in, (2) 4 in, (3) 2 in, (3) 3 in	Bright Blue	**52JU48**
11 Drawers	60 in	28 in	42 in	Butcher Block	18 in, 43 in, 52 ¼ in	(1) 11 in, (2) 3 in, (2) 4 in, (2) 5 in, (4) 2 in	Bright Blue	**52JU49**
13 Drawers	60 in	28 in	48 in	Butcher Block	18 in, 43 in, 52 ¼ in	(1) 11 in, (1) 5 in, (2) 4 in, (3) 2 in, (5) 3 in	Bright Blue	**52JU55**
14 Drawers	60 in	28 in	48 in	Butcher Block	18 in, 43 in, 52 ¼ in	(1) 11 in, (2) 4 in, (2) 5 in, (4) 2 in, (5) 3 in	Bright Blue	**52JU57**
	60 in	28 in	48 in	Stainless Steel	18 in, 43 in, 52 ¼ in	(1) 11 in, (2) 4 in, (2) 5 in, (4) 2 in, (5) 3 in	Bright Blue	**52JU58**
17 Drawers	82 ¼ in	28 in	42 in	Butcher Block	18 in, 24 in, 43 in, 52 ¼ in	(1) 12 in, (1) 8 in, (2) 4 in, (4) 2 in, (4) 3 in	Bright Blue	**52JU51**
	82 ¼ in	28 in	42 in	Stainless Steel	18 in, 24 in, 43 in, 52 ¼ in	(1) 12 in, (1) 8 in, (2) 4 in, (4) 2 in, (4) 3 in	Bright Blue	**52JU52**
21 Drawers	82 ¼ in	28 in	48 in	Stainless Steel	18 in, 24 in, 43 in, 52 ¼ in	(1) 12 in, (1) 5 in, (1) 9 in, (4) 4 in, (5) 2 in, (8) 3 in	Bright Blue	**52JU60**
23 Drawers	82 ¼ in	28 in	48 in	Butcher Block	18 in, 24 in, 43 in, 52 ¼ in	(1) 11 in, (2) 5 in, (5) 4 in, (7) 2 in, (8) 3 in	Bright Blue	**52JU61**

4YW33

1TGL5

1AAF6

1AAF7

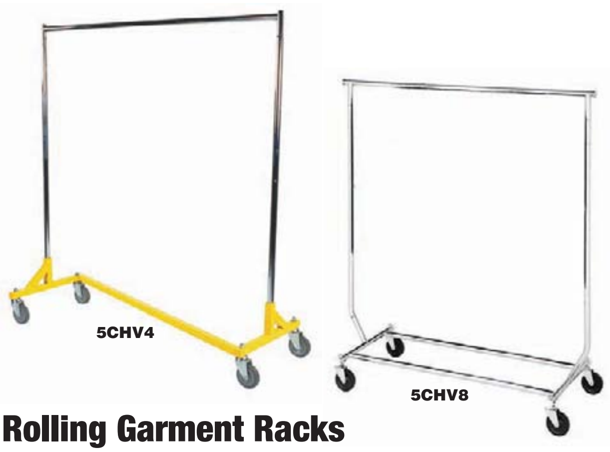
tennsco
Storage Made Easy

Steel Mobile Service Benches

- Shipped assembled
- Casters included (2 locking swivel, 2 rigid)
- Drawer locking system with included keys

Drawers open easily on sliding glides.

No. of Drawers	No. of Doors	No. of Shelves	Load Capacity	W	D	H	Brand	Item No.
0	2	1	1,000 lb	33 in	25 in	43 in	Tennsco	**6YE44**
	2	1	1,200 lb	42 in	24 in	37 ¾ in	—	**1TGL5**
	2	1	2,000 lb	66 in	24 in	37 ¾ in	—	**1TGL6**
1	1	1	1,200 lb	36 in	18 in	38 ⅜ in	—	**49Y082**
	1	2	1,200 lb	36 in	18 in	38 ⅜ in	—	**49Y079**
3	2	2	1,000 lb	48 in	25 in	43 in	Tennsco	**1AAF6**
4	1	1	1,200 lb	36 in	18 in	36 ½ in	—	**4YW33**
	1	1	1,200 lb	36 in	18 in	38 ⅜ in	—	**49Y081**
	2	1	1,000 lb	38 in	25 in	43 in	Tennsco	**1AAF5**
6	1	1	1,200 lb	52 ¾ in	19 in	40 ¼ in	—	**16D884**
8	1	1	1,000 lb	48 in	25 in	43 in	Tennsco	**1AAF7**
	2	1	4,000 lb	66 in	33 in	33 ⅞ in	—	**1TGL7**
20	2	1	1,000 lb	48 in	25 in	43 in	Tennsco	**6YE42**
23	1	1	1,000 lb	48 in	25 in	43 in	Tennsco	**6YE41**


5CHV4
5CHV8

Rolling Garment Racks

- Steel construction
- Shipped unassembled

Description	Holds	D (in.)	W (in.)	H (in.)	Item No.
Rolling Garment Racks					
Nesting, Z-Rack	Up to 24 Garments	24 in	48 in	72 in	14A059
Collapsible Adjustable, Z-Rack	Up to 36 Garments	24 in	40 in	56 in to 73 in	5CHV7
Nesting, Z-Rack	Up to 48 Garments	24 in	63 in	72 in	5CHV4
Adjustable Rack with Wire Basket	Up to 18 Garments	20 in	34 in	51 in to 69 in	14A063
Collapsible Adjustable, Rack	Up to 24 Garments	22 in	50 ½ in	56 in, 61 in, 66 in	5CHV8
Accessories					
Middle Hang Bar For Use With 14A059					14A060
Middle Hang Bar For Use With 5CHV4					5CHV6
Bumper Set For Use With 14A059 and 5CHV4					14A061

Plastic Shopping Baskets

- 12¼"W x 18¼"L x 8⅝"D
- Sold in pkg. of 12

Polyethylene baskets hold smaller items for customers as they shop. Metal handles are coated with PVC for a comfortable grip. Sign and display stand included.

▶CHOOSE: Color	Item No.
Black, Green, Blue, Red, Gray	G1931

4YFE6

4YFE1

Manual and Motorized Wheelchair Shopping Carts

Wire basket conveniently holds items while shoppng. Vinyl-covered seats can be wiped down for cleaning.

Manual Wheelchair Cart— Propelled by hand. Can navigate tight spaces such as aisles more easily than motorized carts. 315-lb. total weight capacity.

Value Shopper and Smart Shopper Motorized Carts— Propelled by a battery-powered electric motor. 625-lb. total weight capacity.

Finish	Overall Length	Overall Width	Overall Height	Item No.
Manual Wheel Chair				
Chrome	47 in	26 ¾ in	38 in	4YFE6
Motorized Value Shopper - Front Wheel Drive				
Silver	55 in	24 in	35 in	4YFE1
Red	55 in	24 in	35 in	4YFD8
Blue	55 in	24 in	35 in	4YFD9
Green	56 in	24 in	33 in	5DYH0
Motorized Smart Shopper - Rear Wheel Drive				
Silver	56 in	24 in	33 in	4YFE2
Red	56 in	24 in	33 in	4YFE4

Shopping Carts and Cart Corrals

WIRE SHOPPING & PLATFORM CARTS

Two-tier cart has two vertically stacked wire baskets that can hold groceries and other items. Compact size to navigate crowded aisles and tight spaces. Made from powder-coated steel. **Platform carts** have a flat wire deck that holds large or bulky items. Made from zinc-plated steel.

CART CORRALS

Galvanized steel enclosures keep shopping carts organized and contained when not in use. Help prevent loss or damage to carts by providing a place for customers to return empty carts. No tools required for assembly.

6PPZ9

3HGF8

4YFD7

Description	Load Capacity	Overall Length	Overall Width	Overall Height	Brand	Item No.
Two-Tier Shopping Cart						
With Two 20 ⅝ inL x 17 ½ inW x 6 ½ in, 9 ⅞ inH Baskets	300 lb	29 in	22 ½ in	41 ½ in	R.W. Rogers Company, Inc	6PPZ9
Platform Carts						
With 25 ½ inL x 19 inW x 7 inH Top Basket	90 lb	36 ½ in	19 in	41 in	—	3HGF7
Without Basket	90 lb	52 in	29 in	43 ½ in	—	3HGF9
With 26 inL x 11 inW x 15 ½ inH Top Basket	275 lb	59 ½ in	29 in	37 in	—	3HGF8
Cart Corrals						
Single Wide	—	14 ft	32 in	8 ft	—	4YFD7
Double Wide	—	14 ft	5 ft 6 in	8 ft	—	4YFD6

Raised Handle
5WXH7

Raised Handle
5WXG9

Adjustable Single-Grip Handle
5WXG8

SAFTCART

Medical Cylinder Carts

Used to store and transport medical gas cylinders in healthcare facilities such as hospitals, clinics, and nursing homes.

Cylinder Cap.	Load Capacity	Overall Height	Overall Width	Max. Tank Dia. Oxygen	Wheel Type	Wheel Dia.	Item No.
Holds M6 Medical Cylinders							
Raised Handle							
36	2,400 lb	38 in	35 in	3 ¼ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH7** *
Holds D, E Medical Cylinders							
Raised Handle							
4	250 lb	35 in	12 in	4 ½ in	Semi-Pneumatic	8 in	**5WXG9**
6	250 lb	21 ½ in	18 ½ in	4 ½ in	Semi-Pneumatic	8 in	**5WXH0**
12	2,400 lb	35 in	21 in	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH1** *
24	2,400 lb	33 in	31 ½ in	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXH2** *
(2) Raised Handle							
50	2,400 lb	38 in	55 in	4 ½ in	(2) Rigid, (2) Swivel Casters	4 in	**5WXL8**
Adjustable Single-Grip Handle							
1	100 lb	38 in	12 in	4 ½ in	Plastic	6 in	**5WXG8**
Single-Grip Handle							
2	250 lb	35 in	12 in	4 ½ in	Semi-Pneumatic	8 in	**5WXL7**

**Locking swivel casters*

METRO
We put space to work.

2TRJ7

Medical Exchange Carts

Used to transport and store linens and supplies in healthcare facilities. Wire mesh shelves and walls let air circulate through the carts, keep contents visible, and allow dirt to fall through to keep them clean. Bins, dividers, and other optional accessories can be added to organize items on the adjustable-height shelves. All have two standard swivel casters and two swivel casters with a brake, unless noted.

Load Capacity	Overall Height	Shelf Length	Shelf Width	Caster Dia.	Includes	Item No.
4 Shelves						
750 lb	69 in	48 in	24 in	8 in	Super Slide, (4) Shelf Dividers, (2) 6 in Tote Boxes	**2TRJ9**
1,000 lb	70 ½ in	60 in	24 in	6 in	Aluminum Dolly Frame, Enclosure Panels	**2TRK2** *
5 Shelves						
750 lb	68 in	48 in	24 in	5 in	Super Slide, (4) Shelf Dividers, (2) 6 in Tote Boxes	**2TRJ7** *
750 lb	68 in	60 in	24 in	5 in	(2) Super Slides, (6) Shelf Dividers, (4) 6 in Tote Boxes	**2TRJ8**
750 lb	69 in	60 in	24 in	8 in	(2) Super Slides, (6) Shelf Dividers, (4) 6 in Tote Boxes	**2TRK1**

** 4 swivel casters.*

ROYAL BASKET TRUCKS

2HEJ4

Collecting Carts

Lightweight, collapsible carts have vinyl or vinyl mesh bags that fit securely over 1" powder-coated steel tubular frame. Antimicrobial bags are flame-retardant and resist mildew, UV-damage, and tears. All have four 3" polyolefin casters.

Volume Cap.	Load Capacity	Overall Length	Overall Width	Overall Height	Color	VINYL Item No.	VINYL MESH Item No.
7.5 cu ft	150 lb	22 in	20 in	35 ½ in	Blue	**22E952**	**22E956**
	150 lb	22 in	20 in	35 ½ in	Green	**22E955**	**22E959**
	150 lb	22 in	20 in	35 ½ in	Red	**22E953**	**22E957**
	150 lb	22 in	20 in	35 ½ in	White	**22E954**	**22E958**
10.0 cu ft	150 lb	26 in	21 in	35 ½ in	Blue	**2HEJ4**	**22E948**
	150 lb	26 in	21 in	35 ½ in	Green	**22E947**	**22E951**
	150 lb	26 in	21 in	35 ½ in	Red	**2HEJ5**	**22E949**
	150 lb	26 in	21 in	35 ½ in	White	**2HEJ6**	**22E950**

Rubbermaid Commercial Products

20UY91

Space-Saving Basket Trucks with Removable Liner

Collapsable frame saves space when storing. Removable vinyl liners resist mold, mildew, UV-damage, and tears. 20UY93 has 2 compartments for sorting materials. All have four swivel casters.

No. of Compart.	Cubic Foot Capacity	Load Capacity	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Removable Vinyl Liner Basket Truck							
1	5.0 cu ft	220 lb	24 ⅛ in	20 ¼ in	34 in	1881749	**20UY91**
1	10.0 cu ft	220 lb	37 ¾ in	24 ⅛ in	34 in	1881750	**20UY92**
2	10.0 cu ft	220 lb	37 ¾ in	24 ⅛ in	34 in	1881781	**20UY93**
Replacement Liner							
Mfr. No. 1881749, 1881781			15 ¼ in	22 ⅜ in	27 ¼ in	1881782	**20UY94**
Mfr. No. 1881750			35 ½ in	22 ⅜ in	27 ¼ in	1881783	**20UY95**

19D630

ROYAL BASKET TRUCKS

Poly Bulk Laundry Trucks

- Drain holes for easy drainage and cleaning
- 6" casters
- 48 cu. ft. volume capacity

Bulk Poly Trucks—Large-capacity carts carry bulky, hard-to-handle items. Ideal for hospital and hotel laundry or bulk supplies.

Security Poly Truck—Includes two fixed shelves with locking door.

Load Capacity	Overall Length	Overall Width	Overall Height	Caster Type	Item No.
Bulk Poly Trucks					
800 lb	48 in	28 in	68 ½ in	(4) Swivel	**2HEJ7**
800 lb	50 ½ in	28 in	66 ¾ in	(4) Swivel	**22E976**
Security Poly Truck					
800 lb	50 ½ in	28 in	67 in	(2) Swivel, (2) Rigid	**19D630**

Dayton

General Purpose Pallet Jacks

Manual jacks with fixed-width forks are for use in warehouses, loading docks, manufacturing, and other industrial settings.

Fast lift can raise empty stacks of pallets and other light loads faster than other types of manual pallet jacks. Loads that are heavier than the pallet jacks' maximum fast-lift weight capacity are raised at a slower rate.

Four-way forks can fit into standard openings on the front and back of the pallets as well as low-entry cutouts on the pallets' side stringers, allowing them to enter pallets from all four sides.

Load Capacity	Fork LxW	Width Across Forks	Width Between Forks	Overall LxWxH	Brand	Item No.	
Standard Forks							
3,800 lb	48 in x 6 in	27 in	15 in	63 in x 27 in x 48 in	—	**12U124**	
4,400 lb	48 in x 6 5⁄16 in	27 in	14 3⁄8 in	63 1⁄2 in x 27 in x 48 in	Dayton	**2ZE59**	
5,000 lb	48 in x 7 in	27 in	13 in	63 1⁄2 in x 27 in x 48 in	Dayton	**24L322**	
	48 in x 6 1⁄4 in	27 in	14 1⁄2 in	63 in x 27 in x 48 in	—	**12U125**	
5,500 lb	36 in x 6 5⁄16 in	27 in	14 3⁄8 in	50 in x 27 in x 48 in	Dayton	**2TUR7**	
	42 in x 6 5⁄16 in	27 in	14 3⁄8 in	56 7⁄8 in x 27 in x 48 in	Dayton	**2TUR5**	
	48 in x 6 1⁄4 in	27 in	14 3⁄8 in	63 1⁄2 in x 27 in x 48 in	Dayton	**490Z07**	
	48 in x 6 1⁄4 in	27 in	14 1⁄2 in	63 1⁄2 in x 27 in x 48 in	Dayton	**12U123**	*
6,000 lb	48 in x 6 in	27 in	14 3⁄8 in	63 in x 27 in x 48 in	Dayton	**493X18**	
8,000 lb	48 in x 6 in	27 in	14 3⁄8 in	63 in x 27 in x 48 in	Dayton	**493X17**	
Standard Fork Fast Lift							
5,500 lb	48 in x 6 in	27 in	15 in	63 in x 27 in x 48 in	—	**445K83**	
	48 in x 6 1⁄4 in	27 in	14 3⁄8 in	63 1⁄2 in x 27 in x 48 in	Dayton	**490Z06**	
Long Forks							
3,300 lb	98 in x 6 in	27 in	15 in	114 in x 27 in x 48 in	—	**445K85**	
4,400 lb	70 in x 6 1⁄4 in	27 in	14 1⁄2 in	87 3⁄8 in x 27 in x 48 3⁄8 in	Dayton	**30LU68**	
	78 in x 6 in	27 in	15 in	93 in x 27 in x 49 in	—	**445K84**	
4-Way Forks							
4,400 lb	48 in x 7 in	33 in	19 in	63 7⁄8 in x 33.5 in x 48 in	Dayton	**30LU67**	
Narrow Forks							
4,400 lb	48 in x 6 5⁄16 in	20 1⁄2 in	7 7⁄8 in	63 1⁄2 in x 20 1⁄2 in x 48 in	Dayton	**2ZE63**	
5,500 lb	36 in x 6 5⁄16 in	20 1⁄2 in	7 7⁄8 in	50 in x 20 1⁄2 in x 48 in	Dayton	**2TUR8**	
	42 in x 6 5⁄16 in	20 1⁄2 in	7 7⁄8 in	56 7⁄8 in x 20 1⁄2 in x 48 in	Dayton	**2TUR6**	
	48 in x 6 5⁄16 in	20 1⁄2 in	7 7⁄8 in	61 7⁄8 in x 20 1⁄2 in x 48 in	Dayton	**2ZE58**	

**** Includes hand brake.***

Dayton

Corrosion-Resistant Pallet Jacks

2ZE62 is constructed of stainless steel and is suited for food processing, cleanrooms, and other applications requiring washdown.

2TUR3, 24L321, and 2TUR4 have galvanized steel frames for use in cold storage environments requiring cleanliness.

Load Capacity	Fork LxW	Width Across Forks	Width Between Forks	Overall LxWxH	Frame Material	Item No.
Standard						
4,400 lb	48 in x 6 5⁄16 in	27 in	14 3⁄8 in	62 in x 27 in x 48 in	Stainless Steel	**2ZE62**
5,500 lb	48 in x 6 5⁄16 in	27 in	14 3⁄8 in	62 in x 27 in x 48 in	Steel	**2TUR3**
	48 in x 6 1⁄4 in	27 in	14 1⁄2 in	64 in x 27 in x 48 in	Steel	**24L321**
Narrow						
5,500 lb	48 in x 6 5⁄16 in	20 1⁄2 in	7 7⁄8 in	62 in x 20 1⁄2 in x 48 in	Steel	**2TUR4**

Dayton

Weigh-&-Go Manual Pallet Jack

Features built-in scale for weighing loads that are placed on the forks. Cushion grip with a 3-position lever and a flow valve for controlled lowering. Scale operates on (6) AA batteries.

Load Capacity	Fork LxW	Width Across Forks	Width Between Forks	Overall LxWxH	Item No.
4,400 lb	48 in x 7 in	27 3⁄4 in	13 1⁄4 in	66 in x 27 3⁄4 in x 47 1⁄4 in	**54YG30**

Bishamon®

Pallet Jack Accessories

Wheel stops prevent pallet jacks from moving as they are being transported or stored. Help prevent damage to doors, walls, and other surfaces. 1XFD7 has a magnetic back for securing to pallet truck for storage.

Storage caddy attaches to pallet jacks and has molded compartments, pockets, and holders for storing beverages, tools, pens, pencils, and clipboards. Large rear compartment can serve as a wastebasket.

Table top converts compatible powered-lift/manual-push high-lift pallet jacks into mobile lift tables. The work surface attachments rest on top of the pallet jacks' forks to provide a solid surface for work tasks.

Item	Material	Overall Length	Overall Width	Overall Height	Brand	Item No.
Wheel Stop	Urethane	5 3⁄4 in	4 in	2 1⁄4 in	—	**1XFD7**
	Rubber	13 3⁄4 in	12 in	1 3⁄4 in	—	**33N455**
Storage Caddy	Plastic	8 1⁄8 in	16 1⁄4 in	19 in	—	**2YA32**
Table Top	—	43 7⁄8 in	27 1⁄2 in	—	Bishamon	**9P468**

Wheel Stop
1XFD7

Storage Caddy
2YA32

Wheel Stop
33N455

All-Terrain
2XY40

Load-Retaining
24L324

Dayton

Special-Application Manual Pallet Jacks

Adjustable-width jack allows operators to change the width across the forks to enter openings on pallets of different sizes. Ideal for applications where one jack is used to move pallets of various sizes.

All-terrain jacks have large pneumatic tires, tubular steel frames, and outriggers that absorb shock and impact and keep the jacks stable as they roll over rough terrain or uneven floors. The width across the forks is adjustable to allow the forks to enter openings on pallets of different sizes.

Load-retaining jacks have steel back supports attached to the frame that stabilize boxes, crates, totes, and other stacked materials to prevent them from shifting as the jacks move.

Confined space jacks have a foot pump that controls a hydraulic pump to raise, hold, or lower their forks. Ideal for crowded docks, manufacturing floors, narrow aisles, trailers, and other tight areas where there is not enough room to fully pull back the handle.

Quiet-operation jacks use sound-deadening materials, quiet-roll wheels and load rollers, and specially designed bushings in the pump assembly to limit the noise that is created to less than 60dB. For use in areas where noise levels must be strictly controlled.

Load Capacity	Fork LxW	Width Across Forks	Width Between Forks	Overall LxWxH	Brand	Item No.
Adjustable-Width						
5,500 lb	48 in x 6 in	21 in to 27 in	9 in to 5 in	63 in x 27 in x 47 in	—	**6JE31**
All-Terrain Adjustable-Width						
2,000 lb	32 in x 4 in	9 ½ in to 26 in	1 ½ in to 18 in	49 in x 63 ¾ in x 51 in	—	**2XY40**
Load-Retaining						
5,500 lb	48 in x 6 ¼ in	27 in	14 ½ in	63 in x 27 in x 55 ½ in	Dayton	**24L324**
With Foot Pump for Confined Spaces						
5,500 lb	48 in x 6 ¼ in	27 in	14 ½ in	67 in x 27 in x 48 in	Dayton	**24L323**
Quiet-Operation						
4,400 lb	48 in x 6 5⁄16 in	27 in	14 ⅜ in	63 in x 27 in x 48 in	Dayton	**32HD10**
5,500 lb	48 in x 6 5⁄16 in	27 in	14 ⅜ in	63 in x 27 in x 48 in	Dayton	**32HD11**

Manual-Lift/Powered-Drive Pallet Jack

Propelled by an electric motor to reduce the physical effort required to move loaded jack over long distances or up inclined surfaces. The handle must be manually operated to raise, lower, or hold forks. More compact, lightweight, and easier to maneuver than fully powered pallet jacks. Motor is powered by a rechargeable battery. Drive controls and a battery-charge indicator are located on the tiller handle for quick access.

Load Capacity	Fork Size L	Fork Size W	Width Across Forks	Width Between Forks	Overall LxWxH	Item No.
3,300 lb	45 in	6 in	27 in	15 in	62 in x 27 in x 51 in	**278DU3**

32H818

Dayton

Powered Pallet Jacks

An electric motor both propels the pallet jacks and raises and lowers their forks. Reduces the physical effort required to operate and move loads over long distances, or up inclined surfaces. Electric drive and lift mechanisms, variable forward/reverse speeds, and push-button operation require minimal operator effort. Motor is battery powered (battery included).

478N30

478N31

Load Capacity	Fork Size L	Fork Size W	Width Across Forks	Width Between Forks	Overall L	Overall W	Overall H	Brand	Item No.
Absorbed Glass Mat (AGM)									
3,000 lb	45 in	6 in	27 in	15 in	63 ¾ in	27 in	49 in	Big Joe	**32H818**
Sealed Lead Acid									
4,000 lb	48 in	6 ⅜ in	27 in	14 ½ in	70 in	27 in	52 in	Dayton	**478N31**
4,500 lb	45 ½ in	6 in	27 in	15 in	70 ½ in	27 in	51 in	Big Joe	**59GW38**
	48 in	6 ⅜ in	27 in	14 ½ in	70 in	27 in	52 in	Dayton	**478N30**
Maintenance Free									
3,300 lb	45 in	5 ½ in	21 in	10 in	70 in	22 in	52 in	Dayton	**55PD65**
	45 in	5 ½ in	27 in	16 in	70 in	28 in	52 in	Dayton	**55PD64**

Dayton

High-Lift Pallet Jacks

- Steel frame

Manual jacks have a foot pedal or handle that operators pump to activate the hydraulic pump and lift the forks.

Powered-lift/manual-push jacks can lift loads faster with less physical effort. An electric motor activates a hydraulic pump to lift and lower the forks and keep them positioned at any height within their travel range. Motor is powered by a rechargeable battery and controlled with a push button. Jacks must be pushed or pulled by hand.

Manual
11K273

Powered-Lift/
Manual-Push
11K281

Load Capacity	Width Across Forks	Width Between Forks	Handle Type	Fork Style	Item No.
Manual High-Lift Pallet Jacks					
Hand Pump Lift Control					
2,200 lb	21 ½ in	9 in	Tiller	Narrow	**2PLH9**
	27 in	14 ½ in	Tiller	Standard	**2PLH7**
3,000 lb	20 ½ in	8 in	Tiller	Narrow	**11K277**
	27 in	14 ½ in	Tiller	Standard	**11K278**
Foot Pump Lift Control					
1,100 lb	27 in	14 in	Raised	Standard	**11K273**
2,200 lb	20 ½ in	8 in	Dual Tiller/Raised	Narrow	**11K275**
	27 in	14 in	Dual Tiller/Raised	Standard	**11K276**
Powered-Lift/Manual-Push High-Lift Pallet Jacks					
Hand Pump Lift Control					
3,000 lb	20 ½ in	8 in	Tiller	Narrow	**11K280**
	27 in	14 ½ in	Tiller	Standard	**11K281**

Powered-Lift/Manual-Push
6WU48

Dayton SOUTHWORTH

Container Tilters

Raise and tilt bulk bins, totes, gaylords, crates, and containers on skids or pallets to allow operators to easily access the contents. Forks have a 90-degree range of motion and can position loads at any angle within that range.

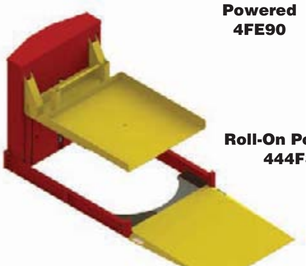
Manual tilter requires operators to pump the handle to activate the hydraulic pump and lift and tilt the forks.

Powered-lift/manual-push tilters can raise and tilt loads faster with less physical effort. Motor is powered by a rechargeable battery and controlled with a push button. Tilters must be pushed or pulled by hand.

Load Capacity	Width Across Forks	Width Between Forks	Handle Type	Fork Style	Brand	Item No.
Manual Container Tilters						
Hand Pump Lift Control						
2,200 lb	22 in	9 ½ in	Tiller	Standard	Dayton	**33W285**
Powered-Lift/Manual-Push Container Tilters						
Push Button Lift Control						
2,000 lb	24 ½ in	11 ½ in	Raised	Standard	Southworth	**6WU48**
4,000 lb	26 ½ in	14 in	Raised	Standard	Southworth	**6WU49**

Corrosion-Resistant Manual
2RDN8

Powered
4FE90



Roll-On Powered
444F36

SOUTHWORTH Dayton Bishamon®

Stationary Pallet Level Loaders

Turntable top allows easy rotation of load.

SOUTHWORTH

Built-in fork pockets make relocating pallets easy. Low-friction, bearing-supported turntable top is easily rotated, with a center pivot and cross bar.

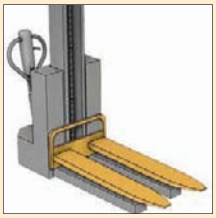
Compression Spring—No need for manual adjustments or tools.

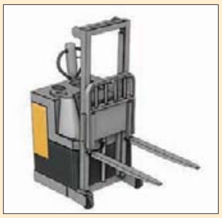
Pneumatic—Pressure-adjustable air bag automatically positions load with 75 psi of shop air. 38TA15 includes vinyl bellows. 4FE90 is powered with a foot valve.

Hydraulic—Work on standard 115V power. 444F36 is a roll-on unit for use with hand pallet trucks.

Lift Mechanism	Lift Mobility	Load Capacity	Raised Height	Lowered Height	Platform Size	Brand	Item No.
Corrosion-Resistant Manual Pallet Positioners							
Compression Spring	Automatic Lift	4,500 lb	27 ¾ in	9 in	43⅝ in Dia	Southworth	**2RDN8**
Manual Pallet Positioners							
Compression Spring	Automatic Lift	4,400 lb	27 ¾ in	9 ½ in	43⅝ in Dia	Dayton	**45NC12**
	Automatic Lift	4,500 lb	27 ¾ in	9 ½ in	43⅝ in Dia	Southworth	**38TA16**
	Automatic Lift		28 in	9 ½ in	43⅝ in Dia	Southworth	**4ZC16**
Pneumatic	Automatic Lift	4,000 lb	30 ½ in	10 ½ in	43 in Dia	Bishamon	**10C448**
	Automatic Lift	4,500 lb	27 ¾ in	9 ½ in	43⅝ in Dia	Southworth	**4ZC17**
	Automatic Lift		27 ¾ in	9 ½ in	43⅝ in Dia	Southworth	**38TA15**
Powered Pallet Lifters							
Hydraulic	Automatic Lift	2,000 lb	32 11/16 in	8 11/16 in	43⅝ in Dia	Southworth	**36Y006**
	Automatic Lift	4,000 lb	32 11/16 in	8 11/16 in	43⅝ in Dia	Southworth	**36Y007**
Pneumatic	Electric Lift	2,000 lb	33 7/16 in	9 7/16 in	43⅝ in Dia	Southworth	**4FE90**
Roll-On Powered Pallet Lifters							
Hydraulic	Electric Lift	2,500 lb	30 in	1 ¾ in	43⅝ in x 48 in	Southworth	**444F36**

Stackers Information





Straddle Stackers

Outrigger legs positioned outside of forks for stability.

- Typically lighter and more compact than counterbalanced stackers
- Can maneuver in aisles and other tight spaces
- Forks can completely reach the ground, which allows them to lift any type of pallet or skid as long as there is sufficient clearance between it and the stackers' legs

Fork-Over Stackers

Outrigger legs positioned directly underneath forks for stability.

- More compact than straddle stackers and counterbalanced stackers
- Can maneuver in aisles and other tight spaces
- Can only lift open-bottom pallets, skids, or containers

Counterbalanced Stackers

Don't require outrigger legs to stabilize them.

- More weight behind their forks
- Can get closer to loads than fork-over and straddle stackers
- Can lift closed-bottom and open-bottom pallets and skids and place them in areas where stackers with projecting legs could not fit

Straddle
53ZA10

Fork-Over
2JFE7

Counterbalanced
2ENE2

Powered Stackers

An electric motor both propels the stackers and raises and lowers their forks, reducing the physical effort required to operate them and travel over long distances, inclined surfaces, sloped floors or ramps. Motor is powered by a rechargeable battery (included).

Load Capacity	Fork Size L	Fork Size W	Lifting Height Range	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Straddle Stackers								
Fixed Forks								
3,000 lb	42 in	4 in	1 in to 10 ft 8 in	67 in	58 in	83 51/64 in	Big Joe	**53ZA10**
Adjustable Forks								
2,200 lb	42 in	4 in	1 in to 5 ft 2 in	62 in	56 in	76 ½ in	Big Joe	**53ZA06**
2,200 lb	42 in	4 in	1 in to 9 ft 8 in	65 ½ in	56 in	82 ½ in	Big Joe	**53ZA08**
2,200 lb	42 in	6 in	3 ¼ in to 5 ft 2 in	68 in	58 in	80 in	Presto Lifts	**2JFE2**
2,200 lb	42 in	6 in	3 ¼ in to 8 ft 5 in	74 in	58 in	73 in to 123 in	Presto Lifts	**2JFE6**
2,200 lb	42 in	6 in	3 ¼ in to 10 ft 5 in	74 in	58 in	85 in to 147 in	Presto Lifts	**2JFE4**
2,200 lb	42 in	6 in	3 ¼ in to 12 ft 6 in	74 in	58 in	99 in to 173 in	Presto Lifts	**2ENE1**
3,500 lb	45 ¼ in	4 ⅝ in	1 ½ in to 9 ft 6 in	72 in	58 in	90 in	Dayton	**55EZ96**
3,500 lb	45 ¼ in	4 ⅝ in	1 ½ in to 11 ft 9 in	72 in	58 in	90 in	Dayton	**55EZ95**
Fork-Over Stackers								
Fixed Forks								
2,200 lb	42 in	6 in	3 ½ in to 5 ft 2 in	67 in	32 in	78 in	Presto Lifts	**3CGC4**
2,200 lb	42 in	6 in	3 ½ in to 5 ft 2 in	67 in	32 in	78 in	Presto Lifts	**2JFE7**
2,200 lb	45 in	6 ¾ in	1 in to 5 ft 2 in	63 ½ in	32 in	75 ½ in	Big Joe	**53ZA07**
Counterbalanced Stackers								
Adjustable Forks								
1,100 lb	30 in	3 in	1 ⅜ in to 5 ft 2 in	92 in	35 in	86 in	Presto Lifts	**2ENE2**
2,200 lb	42 in	4 in	2 in to 8 ft 8 in	106 in	35 ⅞ in	72 19/64 in	Big Joe	**30ZD93**
2,200 lb	42 in	4 in	2 in to 10 ft 8 in	106 in	35 ⅞ in	83 13/64 in	Big Joe	**30ZD94**

Straddle
5RRZ4

Straddle,
Invertible Forks
1XGF5

Fork-Over
32H823

Powered-Lift/ Manual-Push Stackers

Raise loads faster with less physical effort than manual stackers. An electric motor activates the hydraulic pump to raise open-bottom pallets, skids, or containers. Motor is powered by a rechargeable battery (included). Stackers must be pushed or pulled by hand; best suited for applications where loads will be moved short distances.

Load Capacity	Fork Size L	Fork Size W	Lifting Height Range	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Straddle Stackers								
Adjustable Forks								
2,200 lb	42 in	4 in	1 ⅜ in to 5 ft 3 in	66 in	58 in	80 in	Dayton	**5RRZ4**
2,200 lb	42 in	4 in	1 ⅜ in to 9 ft 10 in	66 ½ in	46 in to 58 in	80 in	Dayton	**5RRZ5**
2,200 lb	42 in	4 in	1 ⅜ in to 11 ft 6 in	66 ½ in	46 in to 58 in	89 ½ in	Dayton	**5RRZ6**
Adjustable Invertible Forks								
1,000 lb	25 in	3 in	1 in to 6 ft 4 in	44 ½ in	25 ½ in	92 in	Wesco	**1FC46**
1,000 lb	30 in	3 in	1 in to 4 ft 8 in	48 in	32 ½ in	72 in	Wesco	**1XGF4**
1,000 lb	30 in	3 in	1 in to 5 ft 4 in	48 in	32 in	80 in	Wesco	**1XGF5**
1,000 lb	30 in	3 in	1 in to 6 ft 4 in	48 in	32 in	92 in	Wesco	**1XGF6**
Fork-Over Stackers								
Fixed Forks								
1,000 lb	26 ¼ in	5 ⅜ in	4 ½ in to 5 ft	43 ⅞ in	26 ⅜ in	73 ½ in	Big Joe	**32H821**
1,500 lb	26 ¼ in	5 ⅜ in	4 ½ in to 5 ft	43 ⅞ in	26 ⅜ in	73 ½ in	Big Joe	**32H822**
2,000 lb	26 ¼ in	5 ⅜ in	4 ½ in to 5 ft	43 ½ in	26 ⅜ in	73 ½ in	Big Joe	**32H823**

Manual Stackers

Adjustable and **Fixed Fork** units have a foot pump, and **Fixed Invertible Fork** units have a hand crank, that operators use to activate the stackers' lifting mechanism. Suitable for intermittent use and applications where loads will be moved and lifted over short distances.

Straddle Stacker 4VME8

Fork Over Stacker 4YZ83

Counterbalanced Stacker 18F632

Load Capacity	Fork Size L	Fork Size W	Lifting Height Range	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Straddle Stackers								
Adjustable Forks								
1,000 lb	30 in	3 in	1 in to 4 ft 8 in	48 in	32 ½ in	75 in	Wesco	**8EEX2**
	30 in	3 in	1 in to 4 ft 8 in	47 in	32 in	72 in	Dayton	**2MPT8**
	30 in	3 in	1 in to 5 ft 4 in	47 in	32 in	80 in	Dayton	**2MPT9**
	30 in	3 in	1 in to 6 ft 4 in	47 in	32 in	92 in	Dayton	**2MPU1**
	30 in	3 in	3 ¼ in to 4 ft 2 in	49 in	33 in	66 in	Presto Lifts	**16X838**
2,000 lb	36 in	4 in	2 ¾ in to 5 ft 3 in	56 in	54 in	79 ½ in	Dayton	**4VME8**
	36 in	4 in	2 ¾ in to 8 ft 2 in	56 in	54 in	69 ¾ in	Dayton	**4VME9**
	36 in	4 in	2 ¾ in to 9 ft 10 in	56 in	54 in	79 ½ in	Dayton	**4VMF1**
Fixed Invertible Forks								
350 lb	22 ½ in	3 ½ in	2 in to 11 ft 8 in	43 in	43 ½ in	78 ½ in	Genie	**4YZ81**
	22 ½ in	3 ½ in	3 ½ in to 13 ft 9 in	43 in	43 ½ in	91 in	Genie	**4YZ82**
400 lb	22 ½ in	3 ½ in	3 ½ in to 10 ft 5 in	43 in	43 ½ in	67 ½ in	Genie	**4YZ86**
500 lb	22 ½ in	3 ½ in	3 ½ in to 5 ft 11 in	43 in	43 ½ in	67 ½ in	Genie	**4YZ84**
Fork-Over Stackers								
Adjustable Forks								
750 lb	18 in	3 in	½ in to 4 ft 6 in	30 in	21 ⅞ in	60 ½ in	Dayton	**2MPU9**
	18 in	3 in	5 ¾ in to 4 ft 6 in	32 in	24 in	60 ½ in	Wesco	**445K89**
Fixed Forks								
2,000 lb	43 in	6 ¼ in	3 ¼ in to 8 ft 2 in	63 in	28 ½ in	72 in	Dayton	**4VME2**
	43 in	6 ¼ in	3 ¼ in to 9 ft 10 in	63 in	28 ½ in	82 in	Dayton	**4VME3**
3,000 lb	43 in	6 ¼ in	3 ¼ in to 5 ft 3 in	63 in	28 ½ in	80 in	Dayton	**4VME1**
Fixed Invertible Forks								
400 lb	22 ½ in	3 ½ in	3 ½ in to 10 ft 5 in	34 ¾ in	27 in	67 ½ in	Genie	**4YZ85**
500 lb	22 ½ in	3 in	3 ½ in to 5 ft 11 in	34 ¾ in	27 in	67 ½ in	Genie	**4YZ83**
Counterbalanced Stackers								
Fixed Invertible Forks								
350 lb	22 ½ in	3 in	3 ½ in to 11 ft 8 in	28 ½ in	43 ½ in	78 ½ in	Genie	**18F634**
400 lb	22 ½ in	3 in	3 ½ in to 10 ft 5 in	28 ½ in	43 ½ in	67 ½ in	Genie	**18F633**
500 lb	22 ½ in	3 in	3 ½ in to 5 ft 11 in	28 ½ in	43 ½ in	67 ½ in	Genie	**18F632**

Manual Platform Lifts

Suitable for intermittent use and applications where loads will be moved and lifted over short distances. Compact footprint can maneuver in tight spaces such as aisles, loading docks, and store rooms. Can also be used as adjustable-height work tables and for feeding materials into machines.

Manual platform lift trucks have the outrigger legs positioned directly underneath the platform.

Manual platform lift trucks/stackers have a removable platform and adjustable-width forks. The platform is used for moving and raising loads that are not stored on pallets or skids, and the forks are used for moving and raising loads that are stored on pallets and skids.

Manual hand-truck-style platform lifts have two large rear wheels and are tilted back and rolled to move loads for short distances. The nose of the platform sits on the ground when the trucks are upright, for easy loading of items onto the platform.

Portable manual platform lift trucks have a handle and additional set of wheels mounted to the top of the frame that allow them to be tilted back and loaded into and out of vehicles when empty. The outrigger legs are positioned directly underneath the platform.

Lift Truck/Stacker 4ECW6

Hand-Truck-Style 2MPU5

Load Capacity	Platform Dim. L	Platform Dim. W	Lifting Height Range	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Manual Platform Lift Trucks								
Steel Fixed Base with Hand Winch Chain/Cable Lift								
750 lb	22 in	22 in	5 ¾ in to 54 in	32 in	22 in	60 ½ in	—	**8A125**
	30 in	22 in	5 ¾ in to 54 in	32 in	22 in	60 ½ in	Wesco	**8DTY9**
Steel Fixed Base with Foot Pump Hydraulic Lift								
750 lb	16 in	20 in	5 ¾ in to 40 in	32 in	22 ½ in	48 ½ in	—	**8Y719**
	22 in	22 in	5 ¾ in to 54 in	32 in	22 ½ in	60 ½ in	Dayton	**2MPU7**
	22 in	30 in	5 ¾ in to 54 in	32 in	30 in	60 ½ in	Dayton	**2MPU8**
	22 in	30 in	5 ¾ in to 54 in	32 in	30 in	60 ½ in	—	**8A080**
880 lb	25 ⅝ in	21 ½ in	8 in to 33 ½ in	40 in	23 3/16 in	38 ⅝ in	Dayton	**4ECW8**
	25 ⅝ in	21 ½ in	8 in to 47 in	40 in	23 3/16 in	52 ⅜ in	Dayton	**4ECW9**
	25 ⅝ in	21 ½ in	8 in to 59 in	40 in	23 3/16 in	64 3/16 in	Dayton	**4ECX1**
1,000 lb	16 in	24 in	5 ¾ in to 60 in	40 in	25 ½ in	75 in	Wesco	**9GNA0**
	24 in	24 in	5 ¾ in to 60 in	36 in	25 ½ in	72 in	Dayton	**2MPT2**
	24 in	24 in	5 ¾ in to 68 in	40 in	25 ½ in	80 in	Dayton	**2MPT3**
	24 in	25 ½ in	5 ¾ in to 80 in	36 in	25 ½ in	92 in	Dayton	**2MPT4**
	24 in	24 in	5 ½ in to 52 in	53 ½ in	25 in	66 in	Presto Lifts	**16X837**
	30 in	32 in	5 ¾ in to 60 in	44 in	32 in	72 in	Dayton	**2MPT5**
	30 in	32 in	5 ¾ in to 68 in	44 in	32 in	80 in	Dayton	**2MPT6**
	30 in	32 in	5 ¾ in to 80 in	44 in	32 in	92 in	Dayton	**2MPT7**
	30 in	24 in	5 ¾ in to 80 in	40 in	25 ½ in	94 in	Wesco	**8EAC6**
2,000 lb	30 in	32 in	6 in to 63 in	54 in	34 in	79 ½ in	Dayton	**4VME4**
	30 in	32 in	6 in to 98 in	54 in	34 in	120 in	Dayton	**4VME6**
	30 in	32 in	6 in to 118 in	54 in	34 in	84 in	Dayton	**4VME7**
3,000 lb	30 in	32 in	6 in to 63 in	54 in	34 in	81 ½ in	Dayton	**4VME5**
Stainless Steel Adjustable Base with Foot Pump Hydraulic Lift								
750 lb	30 in	22 in	5 ¾ in to 54 in	32 in	22 ½ in	60 ½ in	Wesco	**445K88**
Manual Platform Lift Trucks/Stackers								
Steel Fixed Base with Foot Pump Hydraulic Lift								
880 lb	25 ⅝ in	22 ¾ in	3 ⅜ in to 47 in	40 ¾ in	23 5/16 in	56 ⅛ in	Dayton	**4ECW6**
	25 ⅝ in	22 ¾ in	3 ⅜ in to 59 in	40 ¾ in	23 5/16 in	67 ⅞ in	Dayton	**4ECW7**
Manual Hand-Truck-Style Platform Lifts								
Steel Fixed Base with Foot Pump Hydraulic Lift								
750 lb	22 in	22 in	½ in to 54 in	32 in	22 ½ in	60 ½ in	Dayton	**2MPU5**
	22 in	30 in	½ in to 54 in	32 in	30 in	60 ½ in	Dayton	**2MPU6**
Portable Manual Platform Lift Trucks								
Steel Fixed Base with Hand Winch Chain/Cable Lift								
500 lb	20 in	20 in	3 ¼ in to 58 in	28 ½ in	20 in	66 ¼ in	Dayton	**26Y451**
	20 in	24 in	6 ¼ in to 59 in	28 ½ in	27 ¼ in	69 ½ in	Dayton	**26Y452**
	20 in	20 in	¼ in to 55 in	30 in	30 ½ in	66 ½ in	Dayton	**26Y453**
Aluminum Fixed Base with Hand Winch Chain/Cable Lift								
400 lb	20 in	20 in	3 ⅛ in to 58 in	33 ⅛ in	20 in	66 ½ in	—	**1XFE4**
	20 in	24 in	6 ⅛ in to 60 in	33 ⅛ in	27 ⅛ in	69 5/16 in	—	**1XFE5**

Steel with Hydraulic Lift
8CL64

Steel with Chain/ Cable Lift
38ER33

Aluminum with Chain/Cable Lift
1XFD4

WESCO Industrial Products, Inc. Dayton

Powered-Lift/Manual-Push Platform Lift Trucks

An electric motor activates the lifting mechanism, to raise loads faster and with less physical effort than manual platform lift trucks. Must be pushed or pulled by hand; best suited for applications where loads will be moved over short distances. Motor is powered by a rechargeable battery.

Load Capacity	Platform Dim. L	Platform Dim. W	Lifting Height Range	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Steel Fixed Base with Push Button Hydraulic Lift								
1,000 lb	22 in	24 in	5 ¾ in to 60 in	36 in	25 ½ in	72 in	Wesco	**8CL64**
	30 in	32 in	5 ¾ in to 60 in	43 ½ in	32 in	72 in	Wesco	**1XGF1**
	30 in	32 in	5 ¾ in to 68 in	43 ½ in	32 in	80 in	Wesco	**1XGF2**
Steel Fixed Base with Push Button Chain/Cable Lift								
125 lb	19 in	23 ¾ in	5 ½ in to 76 in	33 in	24 in	86 ½ in	Dayton	**13X479**
220 lb	19 in	23 ¾ in	5 ½ in to 67 in	33 in	24 in	79 ⅝ in	Dayton	**38ER33**
400 lb	19 in	23 ¾ in	5 ½ in to 76 in	33 in	24 in	88 in	Dayton	**13X481**
Aluminum Fixed Base with Push Button Chain/Cable Lift								
125 lb	18 ½ in	23 ½ in	5 ½ in to 72 in	36 ⅛ in	23 ½ in	85 3⁄16 in	—	**1XFD5**
175 lb	18 ½ in	23 ½ in	5 ½ in to 57 in	36 ⅛ in	23 ½ in	70 3⁄16 in	—	**1XFD4**

Hydraulic Foot Pump
26W609

Winch
26W610

Dayton

Manual Cylinder Lift Platform Trucks

- Load capacity: 300 lb.

Used to move and lift heavy gas cylinders for short distances, such as onto vehicle beds or storage platforms. Curved frame cradles cylinders, and chains secure cylinders in place. Ship assembled and include two 5" swivel casters and two 5" rigid casters.

Description	Lifting Height Max.	Overall Length	Overall Width	Overall Height	Item No.
Hydraulic Foot Pump-Operated	40 in	20 ¾ in	29 ¼ in	52 in	**26W609**
Winch-Operated	40 in	20 ¾ in	29 ¼ in	58 in	**26W610**

Dual Scissor Table
4ZD01

Easy-Transfer Table
2MPP5

SOUTHWORTH making work faster, safer, and easier · Dayton · BAILEIGH INDUSTRIAL

Manual Mobile Scissor-Lift Tables

- Corrosion-resistant carts are made of stainless steel; all others are steel
- Hydraulic foot pump lift control
- Dual scissor types are designed for higher-lift applications

A scissor-style support frame allows the platform to be raised or lowered to a wider range of heights than post-lift tables. The platform sits close to the ground when fully lowered, for easier loading of heavy items.

Corrosion-resistant tables resist rusting when exposed to high humidity, moisture, frequent cleaning, and chemicals. Wheels have polyurethane treads that resist exposure to chemicals and moisture and won't mark floors.

Easy-transfer tables have platforms with ball transfers for easy loading of flat-bottomed items onto or off of the platform. A side lever raises or lowers the ball transfers. When transfers are raised, items can slide on the platform. When transfers are lowered, items cannot slide on the platform, keeping them stable as the table is moved.

Load Capacity	Platform Dim. L	Platform Dim. W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Maximum Lifting Height	Brand	Item No.
Manual Mobile Scissor-Lift Tables								
Single Scissor Type								
330 lb	28 in	17 ⅝ in	37 ⅝ in	17 ⅝ in	36 in	29 in	Southworth	**4ZC04**
400 lb	27 ½ in	17 ⅝ in	30 ¼ in	17 ½ in	36 ⅞ in	29 ¼ in	Dayton	**3KR46**
550 lb	31 ½ in	19 ⅝ in	38 ¼ in	19 ⅝ in	36 ⅛ in	31 ½ in	Southworth	**4ZC05**
	32 ½ in	19 ½ in	42 in	19 ½ in	36 in	36 in	Dayton	**33W288**
600 lb	32 in	20 in	40 in	20 in	40 in	33 in	Southworth	**437J79**
660 lb	32 in	19 ¾ in	43 in	20 in	38 ½ in	35 in	Dayton	**35KT59**
	32 in	20 in	32 ½ in	20 ½ in	10 ½ in	30 ¾ in	Baileigh Industrial	**31XU05**
1,000 lb	32 in	19 ½ in	36 ⅞ in	19 ½ in	39 in	35 ½ in	Dayton	**6W803**
	63 in	31 ½ in	65 ¾ in	31 ½ in	38 in	35 ¼ in	Dayton	**4ZC18**
1,100 lb	35 ¾ in	23 ½ in	42 in	23 ½ in	37 ¾ in	36 ½ in	Southworth	**4YZ96**
	39 ½ in	20 ½ in	50 in	20 ½ in	39 ½ in	39 ½ in	Dayton	**33W286**
1,760 lb	39 ½ in	20 ½ in	50 in	20 ½ in	39 ½ in	39 ½ in	Dayton	**33W287**
	39 ½ in	23 ½ in	46 in	23 ½ in	38 ¾ in	40 in	Southworth	**4YZ97**
2,000 lb	40 in	20 in	46 in	20 in	38 ½ in	39 in	Dayton	**6W804**
Dual Scissor Type								
660 lb	32 in	20 in	32 ¼ in	20 ½ in	14 ½ in	50 in	Baileigh Industrial	**31XU06**
	39 ½ in	20 ½ in	50 in	20 ½ in	63 in	63 in	Dayton	**33W295**
770 lb	35 ¾ in	23 ½ in	42 in	23 ½ in	37 51⁄64 in	49 ¾ in	Southworth	**4YZ95**
800 lb	35 ½ in	20 in	38 ½ in	19 ½ in	38 ¼ in	51 in	Dayton	**3KR47**
1,500 lb	48 in	24 in	50 ¾ in	24 in	40 in	59 in	Dayton	**4ZD01**
Corrosion-Resistant Manual Mobile Scissor-Lift Tables								
Single Scissor Type								
400 lb	27 ½ in	17 ½ in	36 ¾ in	17 ½ in	34 ⅜ in	29 in	—	**2TKX9**
550 lb	31 in	19 ½ in	33 ¼ in	21 ¼ in	33 ½ in	33 ½ in	—	**2TKY3**
1,000 lb	32 ¼ in	19 ½ in	37 in	19 ½ in	35 in	35 ½ in	—	**2TKY2**
1,100 lb	35 ½ in	23 ½ in	45 in	23 ½ in	38 ½ in	38 ½ in	—	**2TKY4**
Dual Scissor Type								
220 lb	27 ½ in	17 ¾ in	37 ½ in	17 ¾ in	33 ¾ in	51 in	—	**2TKX8**
800 lb	35 ½ in	20 in	39 ½ in	20 in	39 ½ in	50 ¾ in	—	**2TKY1**
Easy-Transfer Manual Mobile Scissor-Lift Tables								
Single Scissor Type								
440 lb	32 in	20 in	41 ½ in	22 ½ in	43 ¾ in	43 ¾ in	Dayton	**2MPP5**
990 lb	40 in	20 in	48 in	24 ⅛ in	46 ¾ in	46 ¾ in	Dayton	**2MPP6**
1,540 lb	40 in	20 in	48 in	21 in	46 ⅞ in	46 ⅞ in	Dayton	**2MPP7**
2,200 lb	40 in	20 in	48 in	23 ⅜ in	45 ¼ in	45 ¼ in	Dayton	**2MPP8**

Hydraulic
8TTA0

Quiet & Precise
Linear Actuator
2RDN3

Powered-Lift/Manual-Push Mobile Scissor-Lift Tables

- Push button lift control

Raise loads faster and with less physical effort than manual lift tables. Scissor-style support frame lets the platform be raised or lowered to a wider range of heights than post-lift tables. Platform sits close to the ground when fully lowered, for easier loading of heavy items. Tables have brakes or floor locks that can be engaged to prevent them from moving unexpectedly. An electric motor activates the hydraulic lifting mechanism to raise the platform. Motor is powered by a rechargeable battery and controlled with a push button. Must be pushed or pulled manually.

Quiet and Precise tables have a linear actuator that raises or lowers the platform more quickly, quietly, and accurately than tables with hydraulic or hand-crank lifting mechanisms. Used in areas where noise must be kept to a minimum, such as high-tech manufacturing, retail stores, offices, and medical facilities. Battery-powered actuator is controlled with a push button.

Load Capacity	Platform Dim. L	Platform Dim. W	Overall Dim. L	Overall Dim. W	Overall Dim. H	Maximum Lifting Height	Brand	Item No.
Powered-Lift/Manual-Push Mobile Scissor-Lift Tables								
Motor Lift Mechanism & Single Scissor								
1,000 lb	48 in	24 in	59 in	36 in	36 in	42 ½ in	Vestil	**3EB99**
1,500 lb	36 in	24 in	36 in	36 in	36 in	33 ½ in	Vestil	**6WU87**
	48 in	24 in	59 in	36 in	36 in	42 ½ in	Vestil	**3EE10**
Hydraulic Lift Mechanism & Single Scissor								
550 lb	40 in	24 in	55 ½ in	26 ⅝ in	39 in	36 ½ in	Southworth	**8YDD6**
660 lb	32 ¼ in	19 ¾ in	34 ½ in	19 ¾ in	34 ½ in	35 in	Bishamon	**8ZG07**
Hydraulic Lift Mechanism & Dual Scissor								
660 lb	39 ¾ in	20 ½ in	50 in	20 ⅜ in	37 in	63 ¾ in	Bishamon	**8TTA0**
Quiet & Precise Powered-Lift/Manual-Push Mobile Scissor-Lift Tables								
Linear Actuator Lift Mechanism & Single Scissor								
330 lb	31 ½ in	20 in	40 in	20 in	37 ½ in	33 ¼ in	Southworth	**2RDN5**
	36 in	24 in	42 in	24 in	37 ½ in	33 ¼ in	Southworth	**2RDN6**
500 lb	31 ½ in	20 in	37 ½ in	20 in	37 ½ in	32 ½ in	Southworth	**2RDN7**
Linear Actuator Lift Mechanism & Dual Scissor								
220 lb	31 ½ in	20 in	40 in	20 in	37 ½ in	51 in	Southworth	**2RDN3**
	36 in	24 in	42 in	24 in	37 ½ in	51 in	Southworth	**2RDN4**

Fixed Platform,
Push Button
60NH58

Fixed Platform,
Foot Control
19A868

Fixed Platfrom,
Foot Control
4ZC12

Turntable Platform,
Push Button
60NH63

Stationary Electric Scissor Lift Tables

Raise or lower heavy items to convenient working levels, reducing the risk of worker injuries. Feature hydraulic lift mechanisms with push-button or foot lift controls.

Turntable platforms offer easier access to loads.

Load Capacity	Platform Dim. L	Platform Dim. W	Lifting Height Min.	Lifting Height Max.	Brand	Item No.
Fixed Platform						
Push Button						
550 lb	40"	23½"	2 ⅞ in	30 in	Bishamon	**4ZD63**
1,100 lb	40"	23½"	2 ⅞ in	30 in	Bishamon	**4ZD64**
	40"	24"	3 ¼ in	30 in	Dayton	**35KT53**
1,500 lb	48"	24"	8 in	39 in	Dayton	**60NH59**
2,000 lb	48"	24"	8 in	39 in	Dayton	**60NH60**
	48"	36"	6 ¾ in	42 ¾ in	Southworth	**437J77**
	48"	36"	8 in	39 in	Dayton	**60NH55**
	48"	36"	8 ½ in	38 ½ in	Bishamon	**45A260**
	48"	48"	8 in	39 in	Dayton	**60NH61**
2,200 lb	51"	24"	3 5/16 in	38 ⅝ in	Bishamon	**2MNW9**
3,000 lb	48"	28"	8 ⅝ in	42 ⅝ in	Bishamon	**45A265**
	48"	36"	8 in	39 in	Dayton	**60NH56**
	48"	36"	8 ⅝ in	42 ⅝ in	Bishamon	**45A266**
	48½"	24"	7 ¼ in	43 ¼ in	Southworth	**437J85**
	48½"	36"	7 ¼ in	43 ¼ in	Southworth	**437J82**
4,000 lb	48"	48"	8 in	39 in	Dayton	**60NH62**
4,400 lb	55½"	33½"	4 ⅜ in	39 ⅜ in	Bishamon	**9T705**
5,000 lb	56"	32"	7 ¼ in	43 ¼ in	Southworth	**437J84**
	56"	32"	10 in	48 in	Dayton	**60NH57**
	72"	48"	7 ¼ in	43 ¼ in	Southworth	**437J80**
	72"	48"	8 ¾ in	48 in	Dayton	**60NH58**
Foot Control						
550 lb	36"	20"	5 ½ in	31 ½ in	Southworth	**8AUE5**
1,000 lb	24"	16"	6 in	36 in	Southworth	**4ZC10**
1,100 lb	36"	20"	5 ½ in	31 ½ in	Southworth	**5NP23**
1,500 lb	48"	24"	6 ¼ in	41 ¼ in	Southworth	**4ZC07**
2,000 lb	48"	24"	8 ¾ in	41 ¼ in	Southworth	**4ZC11**
	48"	44"	⅜ in	35 in	Southworth	**19A868**
	48"	48"	8 ¾ in	41 ¼ in	Southworth	**4ZC12**
	48"	48"	6 ¾ in	42 ¾ in	Southworth	**9HUL6**
	48"	50"	⅜ in	35 in	Southworth	**19A869**
2,200 lb	57½"	47"	3 ¼ in	31 ½ in	Southworth	**20JK41**
	57½"	49"	3 ¼ in	31 ½ in	Southworth	**20JK40**
4,000 lb	48"	24"	6 ¾ in	42 ¾ in	Southworth	**19A872**
	48"	36"	6 ¾ in	42 ¾ in	Southworth	**19A873**
	48"	48"	6 ¾ in	42 ¾ in	Southworth	**4ZC14**
Turntable Platform						
Push Button						
2,000 lb	46"	31"	11 ½ in	41 ½ in	Dayton	**60NH63**
2,500 lb	48"	24"	9 in	45 in	Southworth	**437J81**
3,000 lb	48"	24"	9 in	45 in	Southworth	**437J83**
3,500 lb	48"	48"	7 ⅝ in	43 ⅝ in	Dayton	**60NH64**
Foot Control						
3,500 lb	48"	48"	7 ⅝ in	43 ⅝ in	Southworth	**4ZC15**
Accessories						
Electric Handle Control for Southworth Models Only					Southworth	**4ZC03**

Foot Pump
Control - 1 Post
4ZD19

Foot Pump
Control - 3 Posts
4DYG9

Foot Pump
- 5 Posts
4ZD22

Hand Winch
Control - 4 Posts
11A564

WESCO Industrial Products, Inc. Dayton

Manual Mobile Post-Lift Tables

- Steel platform

Offer more open space below the platform to use for transferring and positioning dies and other large, heavy parts. Floor locks prevent tables from moving unexpectedly.

Foot pump control tables have a hydraulic lifting mechanism.

Precise-positioning tables have a hand crank to give users more precise control over the position of the platform. Hand-crank lifting mechanism will not lose accuracy over time.

Load Capacity	Platform Dim. L	W	Overall LxWxH	Maximum Lifting Height	Brand	Item No.
Foot Pump Lift Control						
1 Lifting Post						
200 lb	16 in	16 in	19 ½ in x 16 in x 31 in	49 in	—	**4ZD19**
1,000 lb	36 in	18 in	39 ¼ in x 18 in x 30 ½ in	47 ½ in	Wesco	**8AER7**
2,000 lb	30 in	20 in	30 in x 20 in x 30 in	48 in	Wesco	**4DYG3**
	30 in	30 in	30 in x 30 in x 30 in	46 in	Wesco	**4DYG4**
	36 in	24 in	39 ¼ in x 24 in x 37 in	59 in	Wesco	**9HY40**
6,000 lb	48 in	32 in	51 ¼ in x 32 in x 37 in	59 in	Wesco	**9HT93**
3 Lifting Posts						
500 lb	18 in	18 in	40 in x 18 in x 31 in	49 in	—	**4ZD20**
1,000 lb	36 in	20 in	42 in x 20 in x 36 in	54 in	—	**4ZD21**
2,000 lb	60 in	30 in	60 in x 30 ¼ in x 31 in	49 in	—	**2TKZ1**
	60 in	30 in	60 in x 30 in x 30 in	48 in	Wesco	**4DYG6**
	72 in	30 in	72 in x 30 in x 30 in	48 in	Wesco	**4DYG7**
	96 in	30 in	96 in x 30 in x 30 in	48 in	Wesco	**4DYG8**
	120 in	30 in	120 in x 30 in x 30 in	48 in	Wesco	**4DYG9**
5 Lifting Posts						
2,000 lb	36 in	24 in	42 in x 24 in x 36 in	54 in	—	**4ZD22**
	36 in	24 in	39 ¼ in x 24 in x 30 ½ in	47 ½ in	Wesco	**9TZ58**
	36 in	30 in	42 in x 30 in x 36 in	54 in	—	**4ZD24**
	48 in	32 in	51 ¼ in x 32 in x 37 in	59 in	Wesco	**8PE49**
4,000 lb	36 in	24 in	52 ¾ in x 24 in x 41 ⅟16 in	54 in	—	**2PLH2**
	36 in	30 in	52 ¾ in x 30 in x 41 ⅟16 in	54 in	—	**2PLH3**
	42 in	30 in	42 in x 30 in x 54 in	54 in	Dayton	**35KT39**
6,000 lb	48 in	32 in	59 ¾ in x 32 in x 39 ⅞ in	54 in	—	**4ZD27**
Precise-Positioning Hand Winch Lift Control						
4 Lifting Posts						
2,000 lb	36 in	24 in	36 in x 24 in x 42 in	42 in	Dayton	**11A564**
	48 in	30 in	48 in x 30 in x 42 in	42 in	Dayton	**11A565**

General Purpose,
Fixed Base
4YZ87

Heavy-Duty,
Fixed Base
3RAT9

High-Stability,
Fixed Base
18F646

Compact,
Fixed Base
18F655

Genie A TEREX BRAND

Material Lifts

Use telescoping masts to lift objects and position them in high places. Wheeled vehicles have steel bases that can fold up when not in use. Flat pallet forks (4YZ71) are required to lift pallets.

Heavy-duty manual material lifts have large-diameter solid-rubber-tread rear wheels that allow them to roll over rough terrain and uneven ground.

High-stability material lifts have built-in levelling jacks on their outrigger legs that level and stabilize the lifts. Used to raise and position lighting and sound rigs, scenery, and other equipment in theaters and live-performance venues. Also used for construction or contracting applications that require maximum stability when lifting equipment.

Compact air-powered material lifts have a telescoping mast and platform that are raised and lowered with a pneumatic piston. Piston can be powered by an optional refillable C02 tank or other compressed-air source, and is controlled with a pistol-grip handle. Compact footprint.

Load Capacity	Lifting Height Min.	Max.	Fork Length	Width Across Forks	Item No.
General Purpose Manual Material Lifts					
Adjustable Base					
800 lb	6 in	196 in	25 in	23 ½ in	**4YZ90**
1,000 lb	6 in	79 in	25 in	23 ½ in	**4YZ94**
	6 in	137 ½ in	25 in	23 ½ in	**4YZ88**
Fixed Base					
650 lb	6 in	312 ½ in	27 in	23 ½ in	**4YZ92**
800 lb	6 in	196 in	27 in	23 ½ in	**4YZ89**
	6 in	254 ½ in	27 in	23 ½ in	**4YZ91**
1,000 lb	6 in	79 in	27 in	23 ½ in	**4YZ93**
	6 in	137 ½ in	27 in	23 ½ in	**4YZ87**
Heavy-Duty Rough-Terrain Manual Material Lifts					
Fixed Base					
650 lb	6 in	155 in	25 in	23 ½ in	**3RAT8**
	6 in	222 in	25 in	23 ½ in	**3RAT9**
	6 in	288 in	25 in	23 ½ in	**3RAU1**
High-Stability Leveling Manual Material Lifts					
Fixed Base					
650 lb	6 in	312 ½ in	27 ½ in	11 ½ in to 30 in	**18F647**
800 lb	6 in	254 ½ in	27 ½ in	11 ½ in to 30 in	**18F646**
Load Capacity	**Lifting Height Min.**	**Max.**	**Platform Length**	**Platform Width**	**Item No.**
Compact Air-Powered Material Lifts					
Fixed Base					
300 lb	41 in	149 ⅝ in	24 in	24 in	**18F655**
250 lb	54 in	220 ½ in	24 in	24 in	**18F656**
Lifting Attachments for Genie Material Lifts					
Adjustable Tubular Fork					**4YZ70**
Flat Fork					**4YZ71**
Lift Boom					**4YZ72**
Load Platform					**4YZ73**
Wheel & Stabilizer Assemblies for Genie Material Lifts					
Rear Transport Wheel Assembly					**4YZ75**
Captive Stabilizer					**18F645**
Control & Pneumatic Components for Genie Air-Powered Material Lifts					
C02 Tank					**18F657**
Regulator					**39FW21**
Control Assembly					**39FW22**

35LR57

35LR59

35LR60

Warehouse Vehicles

CUSHMAN

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Emission-free, fully electric vehicles help keep products, heavy materials, equipment, and people moving efficiently through your facility. Rugged construction features a powder-coated welded steel frame and diamond plate-patterned body with acrylic finish over polyester primer. Safety yellow color.

Titan® Series—Brawny, reliable 4-wheeled carriers have a spacious cargo deck to help boost productivity. Choose the versatile HD, or powerhouse XD model. HD model has rear wheel hydraulic drum brakes. XD models have front and rear hydraulic brakes.

Minute Miser™—Quick 3-wheeled transport has a flip-down seat for an additional passenger or small cargo deck. Rear wheel mechanical drum brakes.

Stock Chaser™—Maneuverable 4-wheeler has a 9.6-sq.-ft. cargo deck and slim design to work its way through narrow aisles and standard doorways. Rear wheel mechanical drum brakes.

Description	HP	Overall Height	Overall Width	Overall Length	Cargo Box W x L x D	Seating Capacity	Vehicle Load Capacity	Towing Capacity	Power Source	Speed	Item No.
Titan Series											
Titan HD 2 Passenger 36V Electric	8	47 in	44 ½ in	114 in	41½ in x 75 in x 2 in	2	2500 lb	4,600 lb	36V DC Battery	13 mph	**35LR54**
Titan XD 2 Passenger 48V Electric	16.8	47 in	44 ½ in	114 in	41½ in x 75 in x 2 in	2	3000 lb	8000 lb	48V DC Battery	14 mph	**35LR57**
Titan XD 4 Passenger 48V Electric	16.8	47.5 in	44 ½ in	114 in	41½ in x 53½ in x 2 in	4	3000 lb	8000 lb	48V DC Battery	14 mph	**35LR58**
Minute Miser											
Cushman Minute Miser	8.25	39 in	30 in	85 in	23 in x 29 in x 4 in	2	550 lb	2,000 lb	24V DC Battery	10 mph	**35LR59**
Stock Chaser											
Cushman Stock Chaser	8.94	48 in	29 ½	88.4 in	29 in x 48 in	1	1000 lb	5,000 lb	24V DC Battery	8.5 mph	**35LR60**

19ND73

19ND81

19ND82

19ND84

19ND87

19ND88

Forklift Accessories

IRONguard® Protecting Your People

Seats feature adjustable backrest with suspension, fore and AFT side rail, document bag, and universal mount. Seat belts are retractable with 2" wide belt material. Safety light projects a blue warning light onto floor behind forklift to alert pedestrians. Strobe light includes impact-resistant casing with mounting plate. Head light includes adjustable mounting bracket. Safety front and side lights include adjustable mounting brackets. Tail light includes running, brake, and reverse light. Mirror is curved and constructed of high-visibility impact-resistant metal and polypropylene.

Load Capacity	Fork Thickness	Fork Width	Brand	Fork Length 36 in Item No.	42 in Item No.	48 in Item No.	60 in Item No.
Forklift Forks							
3,000 lb	1 ⅜ in	4 in	—	**19ND73**	**19ND74**	**19ND75**	—
5,000 lb	1 ¾ in	4 in	—	**19ND76**	**19ND77**	**19ND78**	**19ND79**

Description	Includes	Brand	Item No.
Forklift Seat and Seat Belts			
Forklift Seat	Mechanical Suspension Integrated Into Backrest	—	**19ND80**
Forklift Seat Belt	Mounting Hardware	—	**19ND81**
Premium Forklift Seat	Full Suspension with Dustproof Mantle, Weight Adjustment and Microswitch	—	**19ND82**
Premium Forklift Seat Belt	Mounting Hardware	—	**19ND83**

Item	Includes	For Use With	Brand	Item No.
Accessories				
Safety Light Blue LED	Mounting Hardware	Forklift Trucks	Ironguard	**48WH75**
Forklift Red Strobe Light	Wiring Lead	Forklift Trucks	—	**19ND84**
Forklift Basic Head Light	Wiring Lead	Forklift Trucks	—	**19ND86**
Safety Front Light	Mounting Hardware	Forklift Trucks	Ironguard	**53KJ79**
Safety Side Light	Mounting Hardware	Forklift Trucks	Ironguard	**53KJ78**
Forklift Basic Tail Light	Wiring Lead	Forklift Trucks	—	**19ND87**
Forklift Mirror	Mounting Plate and Hardware	Forklift Trucks	—	**19ND88**

5UEW6

5UEW3

8E631

Fork Truck Work Platforms and Accessories

- 1000-lb. capacity
- Powder-coat finish

Use platforms to lift personnel along with light tools and equipment, allowing work and inspections to be safely performed on elevated equipment. Include 42" railing, 4" toe guard, safety strap, and lock.

NOTE: OSHA requirement; before platform is purchased contact the manufacturer of the fork lift before using the platform, as the load label affixed to the forklift truck will need to accommodate the platform load.

DAYTON

Feature autoclosing entry door with lanyard attachment rail. Double-Door models have 2 autoclosing entry doors, allowing access from both sides of platform.

BALLYMORE

Heavy-duty forklifts feature 60"H screen that shields operator from the forklift mast. Rugged steel construction with a nonskid platform. Convenient 2" x 7" fork pockets are mounted on 29" centers. 4" swivel casters on base permit easy positioning. Ship flat in box for easy assembly or order assembled.

ACCESSORIES

Sliding Tool Tray—¾" lip keeps tools and parts from sliding off.

Description	Base Length	Base Width	Overall Height	Item No.
Dayton Assembled Forklift Work Platform				
Single Door	36 in	36 in	66 in	**5UEW0**
	48 in	36 in	66 in	**5UEW1**
	48 in	48 in	66 in	**5UEW2**
Double Door	37 in	37 in	66 in	**5UEW6**
	36 in	36 in	66 in	**5UEW3**
	48 in	36 in	66 in	**5UEW4**
	48 in	48 in	66 in	**5UEW5**
Ballymore Forklift Work Platform				
Unassembled	36 in	36 in	66 in	**8E631**
	40 in	48 in	66 in	**8EFA4**
	48 in	36 in	66 in	**9CRE2**
Assembled	36 in	36 in	66 in	**8DZ92**
	40 in	48 in	66 in	**8DZ93**
	48 in	36 in	66 in	**8VXW4**

Item	For Use With	L	W	H	Item No.
Dayton® Accessories					
Sliding Tool Tray	5UEW2	8¼"	49"	1¾"	**5UEW8**

Telescoping Forklift Boom
426G82
(Truck not included.)

Reach Over Forklift Boom
41D511

Caldwell

Fork Truck Booms

- 7½"W x 2½"H usable fork pockets
- Include restraining chain with grab hook

Provide extra reach to lift and move heavy items safely.

Telescoping booms extend to a maximum horizontal reach of 12 ft. Feature alternate hook positions and a boom locking T-pin.

Pivoting booms have all the features of a telescoping boom, and can also be adjusted vertically in five increments up to 40º.

Reach Over boom is for use when clearance is a factor. Features swivel hooks with hook latches and multiple hook positions.

Precision Lifting booms are compact, versatile units that turn a standard forklift truck into a portable crane. Hook travels approximately 20 ft. Can be adjusted horizontally and vertically with easy toggle button control. Feature self-contained 12VDC power supply and 100 Ah battery with charger.

Max. Cap.	Horizontal Reach	Pocket Spacing	Item No.
Forklift Booms			
Telescoping			
3,000 lb	Boom Hook 3ft to 6 ft, Lifting Hook 7 ft to 12 ft	22 in Outside Edge to Outside Edge	**426G82**
4,000 lb	7 ft to 12 ft Adjustable in 1 ft Increments	22 in Outside Edge to Outside Edge	**8AHG8**
6,000 lb		22 in Outside Edge to Outside Edge	**8Z498**
8,000 lb		22 in Outside Edge to Outside Edge	**9G163**
Fixed Length			
1,500 lb	7 ft Fixed Length	18½ in	**41D504**
2,500 lb	15 ft Fixed Length, Hook Adjusts 12 ft to 15 ft	41¾ in	**41D507**
4,000 lb	8 ft Fixed Length, Hook Adjusts 4 ft to 8 ft	20¼ in	**41D506**
Pivoting Forklift Booms			
Telescoping			
3,000 lb	Boom Hook 3ft to 6 ft, Lifting Hook 7 ft to 12 ft	22 in Outside Edge to Outside Edge	**426G83**
4,000 lb	7 ft to 12 ft Adjustable in 1 ft Increments	22½ in	**9PR23**
6,000 lb		22½ in	**9CHT4**
8,000 lb		22½ in	**9KZE2**
Reach Over Forklift Boom			
Fixed Length			
4,000 lb	4ft to 6 ft, Adjustable in 1 ft Increments	20 in	**41D511**
Precision Lifting Forklift Booms			
Telescoping			
6,000 lb	Boom Hook 3ft to 6 ft, Lifting Hook 7 ft to 12 ft	22½ in	**41D509**
Fixed Length			
2,500 lb	12 ft to 14 ft Boom Hook, 15 ft Fixed Length Lifting Hook	41¾ in	**41D510**
6,000 lb	Boom Hook 3ft to 6 ft, Lifting Hook 7 ft to 12 ft	22½ in Outside Edge to Outside Edge	**41D508**

Fork Truck Rams

Can be fork mounted with 7½"W x 2½"H fork pockets or carriage mounted with spring-loaded lock pin. Sturdy steel construction.

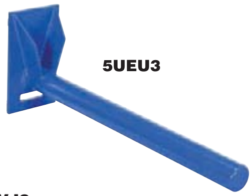
Coil Lifting Rams—Transport a variety of types of coiled materials and accommodate multiple core sizes.

Load Capacity	Pole Length	Pole Dia.	Carriage Class	Item No.
Coil Lifting Rams				
Fork Mounted-Inverted				
3,000 lb	24 in	4 ½ in	—	**5UET5**
	36 in	4 ½ in	—	**5UET7**
	48 in	4 ½ in	—	**5UET9**
	60 in	4 ½ in	—	**5UEU1**
5,500 lb	24 in	5 ⅝ in	—	**5UET6**
	36 in	5 ⅝ in	—	**5UET8**
	48 in	5 ⅝ in	—	**5UEU0**
	60 in	5 ⅝ in	—	**5UEU2**
Carriage Mounted				
3,000 lb	24 in	4 ½ in	2	**5UEU3**
	36 in	4 ½ in	2	**5UEU5**
	48 in	4 ½ in	2	**5UEU7**
	60 in	4 ½ in	2	**5UEU9**
5,500 lb	24 in	5 ⅝ in	2	**5UEU4**
	36 in	5 ⅝ in	2	**5UEU6**
	48 in	5 ⅝ in	2	**5UEU8**
	60 in	5 ⅝ in	2	**5UEV0**

Carpet Lifting Rams—High-strength, rotatable poles with tapered tips move rolls of carpet or rugs. Replaceable.

Load Capacity	Pole Length	Pole Dia.	Carriage Class	Item No.
Carpet Lifting Rams				
Fork Mounted-Inverted				
1,800 lb	144 ½ in	2 ¾ in	—	**5PVK0**
2,200 lb	120 ½ in	2 ¾ in	—	**5PVJ9**
2,500 lb	108 ½ in	2 ¾ in	—	**5PVJ8**
Fork Mounted				
1,800 lb	144 ½ in	2 ¾ in	—	**5UEV3**
2,200 lb	120 ½ in	2 ¾ in	—	**5UEV2**
2,500 lb	108 ½ in	2 ¾ in	—	**5UEV1**
Carriage Mounted				
1,800 lb	144 ½ in	2 ¾ in	2	**5UEV6**
	144 ½ in	2 ¾ in	3	**5UEV9**
2,200 lb	120 ½ in	2 ¾ in	2	**5UEV5**
	120 ½ in	2 ¾ in	3	**5UEV8**
2,500 lb	108 ½ in	2 ¾ in	2	**5UEV4**
	108 ½ in	2 ¾ in	3	**5UEV7**

5UET5



5UEU3

5PVJ8

5UEV4

39J516
Cylinders Not Included.

Cylinder Caddies

Caddies allow multiple cylinders to be lifted together using a forklift or pallet jack. All caddies have a maximum tank dia. of 9", except 10U481 and 10U482 have a maximum tank dia. of 9.5".

Cylinder Cap.	Cap.	Caddy Dimensions H	W	L	Finish	Item No.
Forklift						
4	1,500 lb	41 in	34 in	23 in	Orange Enamel	39J512
	1,500 lb	46 in	34 in	23 in	Orange Enamel	39J513
6	600 lb	35 ½	38 in	35 ½	Red Powder Coated	10U481
	1,500 lb	41 in	34 in	33 in	Orange Enamel	39J514
	1,500 lb	46 in	34 in	33 in	Orange Enamel	39J515
8	1,500 lb	41 in	34 in	43 in	Orange Enamel	39J516
	—	46 in	34 in	—	Orange Enamel	39J511
Pallet Truck						
4	400 lb	39 in	16 in	39	Red Powder Coated	10U482

Fork Truck Lifting Hooks

Include belt, hook, and tightening bolt. Cast-steel construction. Zinc-plated finish.

Style	Load Capacity	Fork Pocket Size	Item No.
Single Fork, Single Swivel Hook	4,000 lb	2¼ in H x 6½ in W	22MW68
Double Fork, Single Swivel Hook	4,000 lb	2½ in H x 6¾ in W	22MW67
Double Fork, Single Swivel Hook	10,000 lb	3½ in H x 6¾ in W	22MW69

Dayton

Pallet Pullers

3KR81

2A093

Pull pallet to the rear of a smooth truck floor for forklift access. 2¾"H heads are self-cleaning and unaffected by wood particles, paint, or grease. ¼" proof coil chain included. Steel construction.

Note: Not to be used for lifting.

Single Scissor Action—Allow for wider jaw opening. Overall closed length: 19½".

Double Scissor Action—1-pc. curved heads have integral spurs for gripping pallet stringers.

Description	Pulling Capacity	For Stringers	Chain Length	Jaw Height	Brand	Item No.
Pallet Puller Single Scissor Action	3000 lb	Up to 3 ½ in	13"	2 ¼ in	—	21XU18
	5000 lb	Up to 5 ½ in	30"	2 ¾ in	Dayton	3KR81
	6000 lb	Up to 5 in	12½"	1 ¾ in	—	21XU19
Pallet Puller Double Scissor Action	5000 lb	Up to 3 in	13"	2 ⅞ in	—	21XU20
	5000 lb	Up to 3 in	30"	2 ¾ in	Dayton	2A093

3AA38

35LU58

Dayton

Fork Truck Fork Extensions

- Fit onto forks up to 2" thick
- Pkg. of 2

Include steel retaining strap and pin to prevent extensions from sliding off forks. Welded steel construction.

Note: See OSHA 29 CFR 1910.178(a)(4-5) and ASME/ANSI B.56.1-1992 (7.35) for application guidelines.

Fork Width	Extension Length	Min. Fork Length	Brand	Item No.
Fork Extensions				
Includes Steel Retaining Strap				
4 in	48 in	32 in	—	35LU28
	54 in	36 in	—	35LU29
	60 in	40 in	Dayton	3AA38
	72 in	48 in	—	2KFG8
	84 in	56 in	—	35LU30
	90 in	64 in	—	35LU31
	96 in	64 in	—	2KFG9
	108 in	64 in	—	35LU32
5 in	48 in	32 in	—	35LU35
	54 in	36 in	—	35LU36
	60 in	40 in	Dayton	3AA41
	72 in	48 in	Dayton	3AA39
	84 in	56 in	—	35LU37
	90 in	64 in	—	35LU38
	96 in	64 in	—	2KFH1
	108 in	64 in	—	35LU39
6 in	48 in	32 in	—	35LU42
	63 in	40 in	—	35LU44
	84 in	56 in	—	35LU45
	90 in	64 in	—	35LU46
	96 in	64 in	—	2KFH2
	108 in	64 in	—	35LU47
6 ½ in	72 in	48 in	Dayton	3AA40
Includes Steel Retaining Pin				
4 in	108 in	64 in	—	35LU33
	120 in	64 in	—	35LU34
5 in	108 in	64 in	—	35LU40
	120 in	64 in	—	35LU41
6 in	108 in	64 in	—	35LU48
	120 in	64 in	—	35LU49
Rack				
Fork Extensions Rack			—	35LU58

5TAF6

Caldwell

Clamp-On Bucket Forks

Designed to add forklift capability to an end loader. Feature open fork design and tool-free attachment. For use on buckets without teeth. Blade must be less than ½" thick at the tip for proper attachment.

Load Capacity per Pair	Fork Length	Fork Width	Fork Height	Load Center	Overall Height	Item No.
1,900 lb	36 in	3 in	2 in	18 in	11 ⅛ in	5TAF6
2,500 lb	42 in	4 in	2 in	21 in	11 ⅛ in	5TAF7
5,500 lb	48 in	5 in	3 in	24 in	12 ⅛ in	5TAF8

Disc Turntables

26W563

- Rotate pallets 360°
- Steel construction

Benchtop turntables allow workers to quickly gain access to all sides of the item being worked on. Plates rotate smoothly on ball bearings and include a serrated rubber top cover.

Manual turntables allow efficient loading and unloading of both pallet trucks and forklifts. Safety detent lock prevents the carousel from rotating when not in use.

Load Capacity	Top Inside Dia.	H	Item No.
Benchtop Turntable			
300 lb	18 in	21 to 32 in	26W568
500 lb	12 in	4 in	26W566
1,000 lb	18 in	⅞ in	26W567
1,000 lb	24 in	⅞ in	26W565
Manual Turntable			
4,000 lb	45 in	⅞ in	26W564
4,000 lb	51 in	⅞ in	26W563

Hand Truck Information

FEATURES

Easy-load hand trucks have nose plates with bevels or other features that help them slide under loads.

Easy-load and tilt hand trucks have foot kicks that let users push the bottom of the trucks forward as they tilt the trucks back, which makes it easier to start loaded trucks rolling. They also have nose plates with bevels or other features that help them slide under loads.

Ergonomic tilt-back hand trucks have two casters mounted on a rear frame extension that help support the hand trucks when tilted back.

Extended folding nose hand trucks have an extension that increases the length of their nose plate and folds up to save space when not in use.

Foot assist hand trucks have foot kicks that let users push the bottom of the trucks forward as they tilt the trucks back, which makes it easier to start loaded trucks rolling.

Load protectors prevent a hand truck's wheels from rubbing against items on the truck and damaging them.

Modular hand trucks allow users to replace parts of the hand trucks as they become worn or damaged.

Narrow hand trucks have a slim profile and can maneuver better in tight spaces than wider hand trucks.

Stair climbers help the trucks roll smoothly over stairs and curbs.

Welded hand trucks feature welded construction and are not modular.

Wheel fenders cover the front of the hand trucks' wheels to prevent damage to items on the trucks.

MATERIALS

Steel hand trucks are the standard option and are suitable for a wide range of applications.

Aluminum hand trucks weigh less than steel or stainless steel hand trucks and will not rust when used in damp or wet environments.

Nylon hand trucks are made from glass-filled nylon. They weigh less than aluminum or steel hand trucks and will not rust when used in damp or wet environments.

Stainless steel hand trucks will not rust when exposed to water, cleaning chemicals, and other corrosives.

General Purpose Hand Trucks

Feature steel frames and nose plates. Suitable for moving heavy loads in a wide range of tasks.

ACCESSORIES

Hand Truck Nose Plate is for replacement or addition to existing hand truck.

Hand Truck Nose Plate Extensions can be used to increase the length and/or width of the existing noseplate to hold larger or bulkier items.

Ergonomic Tilt-Back Steel Hand Truck 2NXA9

Easy-Load Steel Hand Truck 9KCY5

Easy-Load & Tilt Steel Hand Truck 49Y704

Nose Plate WxD	Overall HxWxD	Load Capacity	Axle-Mounted Wheel Type	Frame Type	Wheel Fenders	Brand	Item No.
Standard Steel Hand Trucks							
Continuous Frame Dual Pin							
14 in x 8 in	50 ½ in x 20 ½ in	800 lb	Flat-Free	Rounded Back		Dayton	**6W858**
	57 in x 17 ½ in	500 lb	Semipneumatic	Flat Back		Dayton	**5Z080**
19 in x 14 in	65 in x 19 ½ in	400 lb	Semipneumatic	Rounded Back		Dayton	**1W680**
Continuous Frame Flow-Back							
14 in x 6 ½ in	52 in x 14 in x 14 in	550 lb	Flat-Free	Rounded Back	x	—	**18F501**
14 in x 7 in	40 in x 18 in x 15 in	300 lb	Flat-Free	Flat Back		Ability One	**487V29**
	48 in x 22 in x 17 in	600 lb	Flat-Free	Flat Back		Ability One	**487V27**
		700 lb	Pneumatic	Flat Back		Ability One	**487V31**
14 in x 8 in	46 in x 18 ½ in	300 lb	Semipneumatic	Rounded Back		Dayton	**1W617**
	46 in x 20 ½ in	800 lb	Flat-Free	Rounded Back		Dayton	**6W856**
	46 in x 22 in	650 lb	Pneumatic	Rounded Back		Dayton	**2W179**
14 in x 10 in	48 in x 18 in	1,000 lb	Tread on Core	Rounded Back		Dayton	**2W157**
	48 in x 19 in x 19 ⅝ in	1,000 lb	Tread on Core	Rounded Back		Dayton	**4ZH99**
17 ½ in x 12 ½ in	53 in x 20 ½ in x 23 in	900 lb	Flat-Free	Flat Back	x	Dayton	**2NXC1**
Continuous Frame Loop							
14 in x 6 ½ in	51 ½ in x 14 in x 14 in	550 lb	Pneumatic	Rounded Back	x	—	**4HRH3**
14 in x 7 ½ in	55 ½ in x 20 in x 16 ½ in	800 lb	Flat-Free	Flat Back		Dayton	**2NXA7**
14 in x 7 in	48 in x 22 in x 17 in	600 lb	Tread on Core	Flat Back		Ability One	**487V30**
14 in x 8 in	46 in x 20 in	400 lb	Semipneumatic	Rounded Back		Dayton	**2W063**
14 in x 12 in	50 in x 19 in x 20 in	800 lb	Flat-Free	Rounded Back		—	**9CX22**
Dual Handle							
14 in x 6 ½ in	47 in x 14 ¾ in x 14 in	550 lb	Semipneumatic	Rounded Back	x	—	**18F504**
	47 in x 14 in x 14 in	550 lb	Pneumatic	Rounded Back	x	—	**18F503**
14 in x 7 in	45 in x 18 in x 17 in	600 lb	Flat-Free	Flat Back		Ability One	**487V28**
14 in x 8 in	47 ½ in x 14 in x 14 in	550 lb	Pneumatic	Rounded Back		—	**4HRG9**
	47 in x 20 ½ in	800 lb	Flat-Free	Rounded Back		Dayton	**6W857**
Ergonomic Tilt-Back Steel Hand Trucks							
Continuous Frame Dual Pin							
14 in x 8 in	48 in x 20 in x 25 ½ in	800 lb	Semipneumatic	Rounded Back	x	Dayton	**2NXA9**
Continuous Frame Flow-Back							
14 in x 8 in	40 in x 18 ½ in x 38 in	800 lb	Flat-Free	Rounded Back		—	**39E624**
Dual Handle							
17 in x 10 in	51 ½ in x 22 in x 20 ½ in	1,000 lb	Tread on Core	Flat Back	x	Dayton	**2NXC3**
Easy-Load Steel Hand Trucks							
Continuous Frame Flow-Back							
14 in x 8 in	45 in x 17 ½ in x 17 in	500 lb	Semipneumatic	Rounded Back	x	—	**18F481**
16 in x 13 ½ in	47 in x 18 in x 23 in	800 lb	Pneumatic	Rounded Back	x	—	**8TV03**
	47 in x 20 ½ in x 20 ½ in	800 lb	Flat-Free	Rounded Back	x	—	**8DPT1**
17 ½ in x 12 ½ in	53 in x 23 in x 26 in	800 lb	Pneumatic	Flat Back	x	Dayton	**2NXC2**
Continuous Frame Loop							
14 in x 8 in	46 in x 17 ½ in x 17 in	500 lb	Semipneumatic	Rounded Back		—	**18F479**
	50 in x 14 in x 18 in	800 lb	Flat-Free	Rounded Back		—	**18F487**
		800 lb	Semipneumatic	Rounded Back		—	**18F485**
16 in x 13 ½ in	49 in x 20 in x 23 in	800 lb	Flat-Free	Rounded Back	x	—	**9DUU1**
	49 in x 22 ½ in x 23 in	800 lb	Pneumatic	Rounded Back	x	—	**9KF39**
Dual Handle							
14 in x 8 in	47 in x 17 ½ in x 17 in	500 lb	Semipneumatic	Rounded Back		—	**18F480**
16 in x 13 ½ in	48 ½ in x 20 in x 20 ½ in	800 lb	Flat-Free	Rounded Back	x	—	**9KCY5**
	48 ½ in x 22 ½ in x 22 ½ in	800 lb	Pneumatic	Rounded Back	x	—	**8YFH1**
Easy-Load & -Tilt Steel Hand Trucks With Foot Assist							
Continuous Frame Loop							
14 in x 12 in	48 in x 21 in x 24 in	800 lb	Flat-Free	Rounded Back		—	**49Y694**
16 in x 13 ½ in	49 in x 18 in x 23 in	800 lb	Pneumatic	Rounded Back	x	—	**49Y706**
		800 lb	Flat-Free	Rounded Back	x	—	**49Y704**
Dual Handle							
16 in x 13 ½ in	49 in x 18 in x 23 in	600 lb	Flat-Free	Rounded Back	x	Little Giant	**49Y701**

Item	Nose Plate WxD	Compatible Grainger Part No.	Brand	Item No.
Accessories				
Hand Truck Nose Plate	19 in x 12 in	1W617, 2W063, 2W179, 3W041, 3W087, 3W482, 3W483, 3W484, 3W485, 5Z078, 5Z079, 6W856, 6W857, 6W858	Dayton	**6B472**
Hand Truck Nose Plate Extension	11 in x 31 in	6W046, 6W047, 6W048, 6W049, 6W050, 4ZJ34, 3W153, 3W154	Dayton	**5W661**
	12 in x 27 in	1W617, 2W063, 2W179, 3W041, 3W482, 3W484, 3W485, 5Z078, 5Z079, 6W856, 6W857, 6W858, 3W087, 3W481, 3W483	Dayton	**6W851**

MAGLINER® Dayton®

Corrosion-Resistant General Purpose Hand Trucks

Made from materials that resist rusting when used in damp or wet environments.

Nose Plate WxD	Overall HxWxD	Load Capacity	Axle-Mounted Wheel Type	Frame Type	Wheel Fenders	Brand	Item No.
Ergonomic Tilt-Back Aluminum Hand Trucks							
Continuous Frame Loop							
18 in x 7 ½ in	48 in x 20 ¾ in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	31XC08
	52 in x 20 ½ in x 19 in	500 lb	Flat-Free	Flat Back	x	Magliner	31XC07
	52 in x 20 ½ in x 25 ½ in	500 lb	Flat-Free	Flat Back	x	Magliner	59UY95
	52 in x 20 ¾ in x 25 ½ in	500 lb	Pneumatic	Rounded Back	x	Magliner	59UY96
Extended Folding Nose Aluminum Hand Trucks							
Continuous Frame Flow-Back							
14 in x 7 ½ in	61 ½ in x 17 ½ in x 17 in	500 lb	Tread on Core	Flat Back		Magliner	443L11
Continuous Frame Loop							
14 in x 7 ½ in	55 in x 18 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back		Magliner	5PWC0
	61 ½ in x 17 in x 20 in	500 lb	Tread on Core	Flat Back		Magliner	20UZ24
Modular Aluminum Hand Trucks							
Continuous Frame Dual Pin							
14 in x 8 ½ in	48 in x 21 in x 19 ½ in	500 lb	Pneumatic	Rounded Back		Dayton	6W048
18 in x 7 ½ in	48 in x 18 ½ in x 20 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	59UY91
Continuous Frame Flow-Back							
14 in x 7 ½ in	48 in x 17 ½ in x 17 in	500 lb	Tread on Core	Flat Back	x	Magliner	59UY87
	48 in x 18 ½ in x 17 in	500 lb	Tread on Core	Flat Back	x	Magliner	59UY88
14 in x 8 ½ in	48 in x 18 in x 17 ½ in	500 lb	Tread on Core	Flat Back		Dayton	6W046
	48 in x 21 in x 19 ½ in	500 lb	Pneumatic	Rounded Back		Dayton	6W047
15 in x 7 in	50 in x 21 in x 18 in	600 lb	Pneumatic	Flat Back	x	Dayton	4ZJ31
16 in x 12 in	48 in x 17 ½ in x 22 in	500 lb	Tread on Core	Flat Back	x	Magliner	59UY89
18 in x 7 ½ in	48 in x 20 ¾ in x 20 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	59UY90
	52 in x 18 in x 16 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	9DRC7
20 in x 12 in	68 in x 20 ½ in x 25 in	500 lb	Flat-Free	Flat Back	x	Magliner	59UY92
Continuous Frame Loop							
14 in x 7 ½ in	48 in x 17 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	9DRC9
	48 in x 17 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	5YN95
	48 in x 18 ½ in x 16 ½ in	500 lb	Flat-Free	Rounded Back		Magliner	6LGJ8
	48 in x 20 ½ in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	8Z516
	49 in x 18 ½ in x 18 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	3JJZ9
	52 in x 18 ½ in x 20 in	500 lb	Tread on Core	Flat Back	x	Magliner	5YN99
14 in x 7 ⅛ in	48 in x 17 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back		Magliner	5YP02
14 in x 8 ½ in	51 ½ in x 21 in x 19 ½ in	500 lb	Pneumatic	Flat Back		Dayton	6W049
16 in x 12 in	49 in x 17 ½ in x 21 in	500 lb	Tread on Core	Flat Back	x	Magliner	3JKA2
	49 in x 20 ¾ in x 22 ¾ in	500 lb	Pneumatic	Flat Back		Magliner	3JKA4
18 in x 7 ½ in	48 in x 17 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	3JKD2
	48 in x 18 ½ in x 20 in	500 lb	Tread on Core	Flat Back	x	Magliner	5YN98
	49 in x 20 ¾ in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	3JKA6
	52 in x 18 in x 16 in	600 lb	Semipneumatic	Flat Back	x	—	4HRH1
	52 in x 20 ½ in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	5YN96
	52 in x 20 ½ in x 20 ½ in	500 lb	Flat-Free	Flat Back	x	Magliner	59UY93
18 in x 9 in	52 in x 21 in x 20 ½ in	500 lb	Flat-Free	Flat Back	x	Magliner	1FC78
20 in x 12 in	52 in x 21 in x 23 in	500 lb	Pneumatic	Flat Back	x	Magliner	36UV03
Continuous Frame Single Pin							
18 in x 7 ½ in	52 in x 18 in x 16 ½ in	500 lb	Tread on Core	Flat Back		Magliner	3JKC5
	52 in x 21 in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	1FC77
	60 in x 20 ¾ in x 20 ½ in	500 lb	Pneumatic	Rounded Back	x	Magliner	59UY94
Dual Handle							
14 in x 7 ⅛ in	48 in x 18 ½ in x 17 in	500 lb	Solid	Flat Back		Magliner	3JKC1
16 in x 12 in	48 in x 18 ½ in x 20 in	500 lb	Flat-Free	Flat Back	x	Magliner	5YN97
18 in x 7 ½ in	52 in x 17 ½ in x 16 ½ in	500 lb	Tread on Core	Flat Back	x	Magliner	8AJJ2
	52 in x 20 ½ in x 18 ½ in	500 lb	Pneumatic	Flat Back	x	Magliner	9JZ69
18 in x 7 ⅛ in	48 in x 18 in x 17 in	500 lb	Tread on Core	Flat Back		Magliner	3JKC3
Narrow Modular Aluminum Hand Trucks							
Continuous Frame Dual Loop							
14 in x 7 ⅛ in	62 in x 14 in x 18 in	500 lb	Tread on Core	Flat Back		Magliner	20UZ39
	62 in x 14 in x 20 in	500 lb	Tread on Core	Rounded Back		Magliner	20UZ38
Stainless Steel Hand Trucks							
Continuous Frame Loop							
13 ¾ in x 7 ½ in	52 in x 17 in x 18 ½ in	500 lb	Semipneumatic	Rounded Back		Dayton	34D680
14 in x 8 in	48 in x 22 ½ in x 18 ½ in	600 lb	Tread on Core	Rounded Back		—	445K86
Welded Aluminum Hand Trucks							
Continuous Frame Flow-Back							
14 in x 8 ¼ in	46 in x 20 ½ in	400 lb	Semipneumatic	Rounded Back		Dayton	3W154
Continuous Frame Loop							
14 in x 8 ½ in	50 ½ in x 20 in x 22 ½ in	900 lb	Flat-Free	Rounded Back		—	8WXR2
14 in x 8 ¼ in	48 in x 22 ½ in	400 lb	Pneumatic	Rounded Back		Dayton	3W153

Ergonomic Tilt Back Aluminum Truck 59UY95

Extended Folding Nose Aluminum Truck 20UZ24

Modular Aluminum Hand Truck 5YN95

All-Terrain General Purpose Hand Trucks

Large-diameter flat-free primary wheels absorb shock and will not puncture when rolling over uneven ground, cracked floors, gravel, thresholds, and obstructions. Feature a flat back frame with two casters mounted on a rear frame extension that support the trucks when they are tilted back. Steel frames and nose plates. Used in construction, landscaping, delivery service, dock, or yard applications.

55CR78

Nose Plate WxD	Overall HxWxD	Load Capacity	Wheel Fenders	Item No.
24 in x 17 in	50 in x 25 in x 17 in	750 lb	x	55CR77
30 in x 21 in	63 in x 31 in x 30 in	1,000 lb	x	55CR78

5YP03

MAGLINER® Dayton®

Convertible Hand Trucks

Versatile, multiposition hand trucks can carry a wide range of items with various sizes and shapes.

2-position hand trucks can be used as an upright two-wheel hand truck or a horizontal four-wheel platform truck.

3-position hand trucks can be used as an upright two-wheel hand truck, a horizontal four-wheel platform truck, and a tilt-back four-wheel hand truck.

Nose Plate WxD	Platform LxWxH	Load Capacity as Hand Truck	Load Capacity as Platform Truck	Axle-Mounted Wheel Type/Material	Nose Plate Type	Brand	Item No.
2-Position							
Corrosion-Resistant Modular Aluminum Convertible Hand Trucks							
18 in x 7 ½ in	38 in x 12 in x 10 ½ in	500 lb	1,000 lb	Tread on Core Rubber	Solid Straight	Magliner	**59UY85**
		500 lb	1,000 lb	Pneumatic Rubber	Solid Straight	Magliner	**5YN93**
		500 lb	1,000 lb	Flat-Free Polyethylene	Solid Straight	Magliner	**59UY86**
	38 ½ in x 12 in x 11 ¼ in	600 lb	1,200 lb	Pneumatic Rubber	Solid Straight	Dayton	**34D671**
	39 in x 12 in x 10 ⅝ in	600 lb	800 lb	Pneumatic Rubber	Solid Straight	—	**4HRG5**
	48 ½ in x 12 in x 11 ¼ in	600 lb	1,200 lb	Pneumatic Rubber	Solid Straight	Dayton	**34D672**
	51 in x 12 in x 10 ½ in	500 lb	1,000 lb	Pneumatic Rubber	Solid Straight	Magliner	**5YN94**
18 in x 8 ½ in	38 ½ in x 12 in x 11 in	500 lb	650 lb	Pneumatic Rubber	Solid Straight	Dayton	**6W050**
	48 ½ in x 12 in x 11 in	500 lb	650 lb	Pneumatic Rubber	Solid Straight	Dayton	**4ZJ34**
18 in x 8 ¼ in		500 lb	1,000 lb	Pneumatic Rubber	Solid Straight	—	**21U664**
	38 ½ in x 12 in x 11 in	500 lb	1,000 lb	Pneumatic Rubber	Solid Straight	—	**21U665**
18 in x 9 in	53 ¾ in x 17 in x 11 ¼ in	500 lb	1,250 lb	Flat-Free Polyurethane	Solid Straight	Magliner	**59UZ37**
18 in x 10 in	51 ½ in x 20 in x 11 ½ in	500 lb	1,000 lb	Flat-Free Polyurethane	Solid Straight	—	**24L330**
Extended Nose Corrosion-Resistant Aluminum Convertible Hand Truck							
14 in x 7 ½ in	66 ½ in x 12 in x 9 in	500 lb	200 lb	Tread on Core Rubber	Open Straight	Magliner	**19D209**
Lightweight Corrosion-Resistant Nylon Convertible Hand Truck							
15 in x 7 in	40 in x 13 in x 10 ⅜ in	600 lb	600 lb	Pneumatic Rubber	Solid Straight	Dayton	**4ZJ32**
Steel Convertible Hand Trucks							
14 in x 7 ½ in	45 ⅝ in x 13 ¾ in x 11 in	700 lb	1,000 lb	Flat-Free Plastic	Solid Straight	Dayton	**34D670**
		700 lb	1,000 lb	Semipnuematic Rubber	Solid Straight	Dayton	**34D667**
14 in x 8 in	38 in x 13 ⅝ in x 11 in	650 lb	750 lb	Pneumatic Rubber	Solid Straight	Dayton	**4W323**
		400 lb	500 lb	Semipnuematic Rubber	Solid Straight	Dayton	**2W065**
	42 ½ in x 13 ¾ in x 12 in	500 lb	600 lb	Semipnuematic Rubber	Solid Straight	Dayton	**4ZJ30**
18 in x 10 ½ in	48 ½ in x 13 ¾ in x 12 in	700 lb	800 lb	Flat-Free Rubber	Solid Straight	Dayton	**6W855**
3-Position							
Corrosion-Resistant Aluminum Convertible Hand Trucks							
18 in x 7 ½ in	50 in x 12 in x 10 ½ in	500 lb	750 lb	Flat-Free Polyurethane	Solid Straight	Magliner	**59UZ36**
		500 lb	750 lb	Pneumatic Rubber	Solid Straight	Magliner	**5YP03**
	51 in x 12 in x 10 ⅝ in	500 lb	750 lb	Pneumatic Rubber	Solid Straight	Dayton	**34D655**
Steel Convertible Hand Truck							
16 ¼ in x 10 ¾ in	42 ⅜ in x 15 ¾ in x 11 in	400 lb	400 lb	Pneumatic Rubber	Solid Straight	Dayton	**34D677**

1AGW3

Powered 2-Position Aluminum Convertible Hand Trucks

Battery-powered motor reduces effort when moving heavy loads. Lowering the motor throttle activates a braking mechanism that slows the trucks on ramps and inclines, and the trucks stop rolling when the throttle is at zero. Can be used as an upright two-wheel hand truck or a horizontal four-wheel platform truck. Include rechargeable battery pack and charger.

Handle Type	Nose Plate WxD	Platform LxWxH	Load Capacity as Hand Truck	Load Capacity as Platform Truck	Axle-Mounted Wheel Type/ Material	Item No.
Continuous Frame	18 in x 7 ½ in	46 in x 12 in x 11 in	600 lb	1,200 lb	Pneumatic Polyurethane	**1AGW2**
Continuous Frame Dual Pin						**1AGW3**

10V138

Extra-Versatile 4-Position Convertible Hand Trucks

Can be used as an upright hand truck, a platform truck, a U-boat truck, and a dolly. Frame extends in all positions to accommodate a wide range of items. Steel frame and nose plate. Used in maintenance, warehouse, storage facility, contractor, live performance, HVAC, delivery, and trade show applications. Include stair climbers.

Nose Plate Width	Nose Plate Depth	Platform LxWxH	Load Capacity as Hand Truck	Load Capacity as Platform Truck	Axle-Mounted Wheel Type/Material	Item No.
11 in	—	39 in x 11 in x 6 ½ in	350 lb	350 lb	Flat-Free Polyurethane	**10V138**
12 ½ in	—	42 ½ in x 12 ½ in x 9 ½ in	500 lb	500 lb	Flat-Free Polyurethane	**10V139**
13 ½ in	—	52 in x 13 ½ in x 9 ½ in	500 lb	500 lb	Flat-Free Polyurethane	**10V140**
	—	52 in x 13 ½ in x 11 in	500 lb	500 lb	Flat-Free Polyurethane	**10V141**
	—	52 in x 13 ½ in x 12 in	500 lb	500 lb	Flat-Free Polyurethane	**10V142**
14 in	7 ½ in	52 in x 14 in x 10 in	200 lb	600 lb	Flat-Free Polyurethane	**52NT85**
15 in	10 ¾ in	60 in x 15 in x 10 in	700 lb	700 lb	Flat-Free Polyurethane	**52NT84**
14 in	8 in	60 in x 14 in x 14 in	200 lb	700 lb	Flat-Free Polyurethane	**52NT86**

Find more information on Hand Trucks on page 1181.

MAGLINER®

Folding Hand Trucks

Collapse to save space when stored or transported. Can be placed in a vehicle trunk, utility closet, or similar location between uses.

Telescoping hand trucks have a handle that retracts to save space when trucks are not in use.

Heavy-duty hand truck has a higher load capacity and is used for package delivery and other applications with heavy items.

Luggage hand trucks have deep nose plates that can support luggage or other bulky items.

Telescoping 447H72

Heavy-Duty 1FC76

Folded

Luggage 23L331

Nose Plate WxD	Overall HxWxD	Folded HxWxD	Load Capacity	Wheel Type/Material	Release Type	Frame Material	Brand	Item No.
Telescoping Hand Trucks								
14 in x 8 ¼ in	40 in x 19 in x 38 in	32 ½ in x 18 ½ in x 2 ½ in	275 lb	Solid Rubber	Push Button	Aluminum	—	30ZM68
15 in x 11 in	39 ½ in x 15 ½ in x 16 ½ in	25 in x 15 in x 2 ¼ in	150 lb	Solid Rubber	Locking Bars	Aluminum	—	20Y288
15 ¼ in x 11 in	39 in x 15 ½ in x 16 in	25 in x 15 ½ in x 2 ¼ in	175 lb	Solid Rubber	Locking Bars	Aluminum	—	2NXC7
19 in x 14 in	42 ½ in x 19 in x 20 in	33 in x 19 in x 2 ½ in	250 lb	Solid Polyurethane	Push Button	Steel	—	447H72
19 ¼ in x 11 in	39 in x 19 in x 17 ½ in	28 ½ in x 19 ¼ in x 2 ¼ in	225 lb	Tread on Core Rubber	Push Button	Steel	—	2NXC8
19 in x 13 ½ in	44 ½ in x 19 in x 20 ½ in	35 ½ in x 19 in x 2 ¾ in	300 lb	Solid Rubber	Push Button	Steel	—	20Y290
23 ¼ in x 15 ¾ in	48 ½ in x 24 ¼ in x 24 in	40 ¼ in x 23 ¼ in x 3 ⅜ in	400 lb	Solid Rubber	Push Button	Aluminum	—	20Y291
Heavy-Duty Hand Truck								
14 in x 7 ⅛ in	49 in x 18 ½ in x 16 in	28 ½ in x 18 ½ in x 10 in	500 lb	Tread on Core Rubber	Locking Bars	Aluminum	Magliner	1FC76
Luggage Hand Trucks								
10 ⅛ in x 13 in	39 in x 13 in x 18 ½ in	22 ½ in x 13 in x 6 ⅜ in	125 lb	Solid Plastic	Squeeze Clip	Steel	—	23L331
12 in x 12 in	44 ½ in x 15 ½ in x 19 in	27 in x 15 ½ in x 6 ½ in	250 lb	Solid Plastic	Squeeze Clip	Steel	—	23L326

SAFTCART · Dayton

Cylinder Hand Trucks

Frames are shaped to accommodate specific sizes and quantities of cylinders. Used for moving cylinders in medical, laboratory, food-processing, manufacturing, and construction applications.

Standard cylinder hand trucks have a steel frame and nose plate and come with a chain or strap to secure cylinders to the trucks.

Magnetic-hold cylinder hand truck has strong magnets that hold gas cylinders securely in place. Allows cylinders to be quickly loaded and unloaded.

Ergonomic tilt-back cylinder hand trucks can rest on all four wheels when they are tilted back.

Cylinder Cap.	Nose Plate WxD	Overall HxWxD	Load Capacity	Securing Mechanism	Axle-Mounted Wheel Type	Stair Climber	Brand	Item No.
Standard Cylinder Hand Trucks								
Continuous Frame Flow-Back Handle								
1	—	48 in x 19 ½ in x 16 ⅞	500 lb	Chain	Pneumatic		Dayton	4ZJ16
1	6 in x 14 in	49 in x 18 in x 6 in	250 lb	Strap	Semipneumatic		Saftcart	5WXF6
1	6 in x 15 in	49 in x 19 in x 6 in	400 lb	Chain	Semipneumatic	x	Saftcart	5WXF9
1	7 in x 14 in	48 in x 19 ½ in x 18 in	500 lb	Chain	Flat-Free	x	Dayton	2MPV1
1	7 in x 14 in	48 in x 21 in x 18 in	500 lb	Chain	Pneumatic	x	Dayton	2MPV2
1	7 ¼ in x 14 in	45 ⅞ in x 20 in x 16 ½ in	500 lb	Chain	Flat-Free	x	Dayton	4ZJ12
1	8 in x 14 in	49 in x 14 in x 8 in	800 lb	Chain	Solid	x	—	9KGM3
Continuous Frame Single Pin Handle								
1	—	52 in x 17 ½ in x 23 ¾ in	500 lb	Chain	Semipneumatic		Dayton	34D685
Dual Handle								
1	8 in x 14 in	49 in x 14 in x 8 in	800 lb	Chain	Solid	x	—	9KCY2
2	5 in x 21 in	49 in x 23 in x 5 in	800 lb	Chain	Pneumatic		Saftcart	5WXL4
2	9 in x 17 in	49 in x 20 in x 9 ½ in	400 lb	Chain	Semipneumatic	x	Saftcart	5WXG0
3	5 in x 25 in	49 in x 28 in x 12 ½ in	800 lb	No Securing Mechanism	Pneumatic		Saftcart	5WXL5
T-Shaped Handle								
1	—	49 in x 17 ½ in x 28 in	500 lb	Chain	Semipneumatic		Dayton	34D683
Magnetic-Hold Ergonomic Tilt-Back Cylinder Hand Truck								
Dual Handle								
2	—	52 in x 19 in x 17 in	800 lb	Magnetic	Solid		Saftcart	59PJ82
Ergonomic Tilt-Back Cylinder Hand Trucks								
Continuous Frame Flow-Back Handle								
1	7 in x 14 in	47 in x 20 ½ in x 24 in	800 lb	Chain	Flat-Free		—	19G945
1	7 in x 14 in	54 in x 22 in x 21 in	500 lb	Chain	Pneumatic		—	8DEV1
1	12 ¼ in x 10 in	42 in x 19 in x 24 ½ in	250 lb	Chain	Tread on Core		Dayton	34D673
2	23 in x 23 in		500 lb	Chain	Tread on Core		Dayton	34D674
Dual Handle								
1	—	63 in x 26 in	890 lb	Chime	Pneumatic		Saftcart	5WXG2
2	9 in x 21 in	53 in x 32 in x 18 ½ in	890 lb	Strap	Pneumatic		Saftcart	5WXF8

Continuous Frame Single Pin Handle 34D685

Dual-Handle 5WXL4 Cylinders not included.

SAFTCART

Propane Cylinder Hand Trucks

Shaped to hold propane tanks so they can be delivered for applications such as heating, powering industrial vehicles, brazing, gas-cutting, heat-treating materials, or plastics manufacturing.

Cylinder Cap.	Nose Plate WxD	Overall HxWxD	Load Capacity	Securing Mechanism	Axle-Mounted Wheel Type	Stair Climber	Brand	Item No.
Continuous Frame Single Pin								
1	9 ½ in x 8 in	43 ½ in x 15 ½ in x 15 in	100 lb	Strap	Flat-Free		—	8D060
Dual Handle								
1		55 in x 29 in	800 lb	Chain	Pneumatic	x	Saftcart	5WXG1

8D060

5WXG1 Propane tank not included.

Welding Cylinder Hand Truck
4ZJ05

Firewall Welding Cylinder Hand Truck
45PC86

Ergonomic Tilt-Back Welding Hand Truck
6W055

Dayton SAFTCART SUPPLIER DIVERSITY

Welding Cylinder Hand Trucks

Used to transport oxygen and acetylene gas cylinders used in welding applications.

Firewall welding cylinder hand trucks have a steel firewall that forms a barrier between cylinders on the trucks and helps prevent fires or explosions. It also protects cylinders from damage during transfer and storage. May be used to store cylinders for long periods of time (more than 24 hours).

Ergonomic tilt-back welding cylinder hand truck and **welding cylinder hand trucks** may be used for storing cylinders for short periods of time (less than 24 hours).

Cylinder Cap.	Nose Plate WxD	Overall HxWxD	Load Capacity	Securing Mechanism	Axle-Mounted Wheel Type	Frame Type	Brand	Item No.
Welding Cylinder Hand Trucks								
Continuous Frame								
2	12 ⅝ in x 24 in	63 ½ in x 33 in x 24 in	500 lb	Perma Clamp	Pneumatic	Flat Back	Dayton	**4ZJ08**
2		62 in x 35 in x 12 ½ in	780 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXE8**
2	13 in x 24 in	62 in x 40 in x 12 ½ in	1,680 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXF0**
2		66 in x 33 in x 12 ½ in	780 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXF5**
Continuous Frame Flow-Back								
2	8 in x 16 in	42 in x 22 in x 8 in	200 lb	Perma Clamp	Semipneumatic	Rounded Back	Saftcart	**5WXD2**
2	10 ¼ in x 20 in	43 in x 26 in x 18 in	500 lb	Chain	Flat-Free	Flat Back	Dayton	**4ZJ05**
2	10 in x 19 in	45 in x 30 in x 6 ½ in	400 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXD4**
2			800 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXK7**
2	12 ½ in x 24 in	43 ½ in x 32 ½ in x 22 in	500 lb	Chain	Semipneumatic	Flat Back	Dayton	**5Z082**
2		42 in x 21 in x 6 ½ in	400 lb	Chain	Semipneumatic	Rounded Back	Saftcart	**5WXD5**
2	12 in x 21 in	42 in x 27 in x 9 ½ in	780 lb	Chain	Pneumatic	Rounded Back	Saftcart	**5WXD6**
2		42 in x 31 in x 6 ½ in	780 lb	Chain	Flat-Free	Rounded Back	Saftcart	**5WXD7**
2		44 in x 30 in x 12 ½ in	400 lb	Chain	Semipneumatic	Rounded Back	Saftcart	**5WXD9**
2	13 in x 24 in	44 in x 35 in x 12 ½ in	780 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXE0**
2		46 in x 34 in x 12 ½ in	400 lb	Perma Clamp	Flat-Free	Rounded Back	Saftcart	**5WXE6**
T-Handle								
2	7 in x 26 ¼ in	47 ½ in x 21 in x 19 ½ in	225 lb	Chain	Semipneumatic	Flat Back	Dayton	**2W514**
2	8 in x 18 in	45 in x 21 in x 6 ½ in	250 lb	Chain	Semipneumatic	Rounded Back	Saftcart	**5WXD3**
Firewall Welding Cylinder Hand Trucks								
Continuous Frame								
2		65 in x 40 in x 12 ½ in	1,000 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXF4**
2	13 in x 24 in	66 in x 35 in x 12 ½ in	780 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXF3**
2			780 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**5WXK9**
Continuous Frame Flow-Back								
2		44 in x 34 in x 12 in	1,000 lb	Perma Clamp	Pneumatic	Rounded Back	Saftcart	**45PC86**
2	13 in x 24 in	62 in x 34 in x 12 ½ in	400 lb	Chain	Flat-Free	Rounded Back	Saftcart	**5WXL1**
2		62 in x 35 in x 12 ½ in	400 lb	Chain	Pneumatic	Rounded Back	Saftcart	**5WXF2**
2	20 in x 20 in	62 in x 18 in x 8 ½ in	400 lb	Chain	Semipneumatic	Rounded Back	Saftcart	**5WXF1**
Dual Handle								
2	13 in x 40 in	66 in x 40 in x 9 ½ in	500 lb	Chain, Strap	Pneumatic	Flat Back	Dayton	**34D682**
Ergonomic Tilt-Back Welding Cylinder Hand Truck								
T-Handle								
2	7 in x 26 ¼ in	47 ½ in x 21 in x 19 ½ in	500 lb	Chain	Semipneumatic	Flat Back	Dayton	**6W055**

4ZH92

ENPAC

Spark- & Corrosion-Resistant Cylinder Hand Trucks

Plastic trucks will not create sparks that might ignite volatile gases such as welding gases. Will not rust when used in wet or damp environments.

Cylinder Cap.	Nose Plate WxD	Overall HxWxD	Load Capacity	Axle-Mounted Wheel Type	Brand	Item No.
1	12 in x 12 in	46 in x 24 ½ in x 22 ¼ in	250 lb	Tread on Core	ENPAC	**60NY17**
1	16 in x 16 in	46 in x 22 in x 24 ½ in	250 lb	Solid	—	**4ZH90**
2	10 in x 19 in	45 ½ in x 30 in x 24 ½ in	500 lb	Flat-Free	—	**4ZH92**

Dayton

Load-Control Cylinder Hand Truck with Brake

Hand brake slows or stops the truck when moving up or down inclines or ramps, to help operators maintain control when traveling on inclines or exiting vehicles or buildings. Auminum truck resists rusting when used in damp or wet environments. Includes stair climbers.

Cylinder Cap.	Nose Plate WxD	Overall HxWxD	Load Capacity	Securing Mechanism	Axle-Mounted Wheel Type	Item No.
1	6 ½ in x 14 ¼ in	48 in x 25 ½ in x 20 in	600 lb	Chain	Pneumatic	**2MPV4**

Find more information on Hand Trucks on page 1181.

Steel-Frame Drum Hand Truck 34D646

Powered Drum Truck 448F53

Ergonomic Tilt-Back Corrosion-Resistant Truck 34D654

Steel-Frame Pail Truck 9MK73

Pail and Drum Hand Trucks

Designed for moving large, heavy containers such as pails or drums.

Powered hand trucks have a battery-powered motor that reduces effort when moving loaded trucks.

Knock-down hand trucks are sold unassembled and cost less to ship.

Ergonomic tilt-back hand trucks have two small wheels mounted on a frame extension behind the two primary wheels. The rear wheels support the trucks when tilted back, reducing the physical effort required when moving heavy drums.

Dispensing hand trucks can be laid down horizontally to allow the contents of a drum to be dispensed while the drum is secured to the trucks.

Handle Type	For Container Capacity	For Container Material	Load Capacity	Overall HxWxD	Wheel Type/Material	Nose Plate Type	Brand	Item No.
For Use with Drums								
Steel-Frame Drum Hand Trucks								
Continuous Frame Flow-Back	30 gal, 55 gal	Steel	600 lb	50 in x 19 ½ in x 19 ½ in	Tread on Core Rubber	Straight	—	**9WEK8**
	5 gal, 30 gal, 55 gal	Steel	650 lb	48 in x 22 ½ in x 20 in	Pneumatic Rubber	Straight	Dayton	**6W854**
	5 gal, 30 gal, 55 gal	Steel	800 lb	48 in x 20 ½ in x 20 in	Solid Rubber	Straight	Dayton	**6W853**
Dual Handle	55 gal	Steel	1,000 lb	59 ½ in x 23 ½ in x 18 in	Tread on Core Rubber	Prong	Dayton	**34D646**
	55 gal	Plastic		59 ½ in x 24 in x 25 in	Tread on Core Rubber	Prong	Dayton	**34D649**
	30 gal, 55 gal	Plastic, Steel		56 ½ in x 23 ½ in x 14 ½ in	Solid Polyolefin	Prong	Dayton	**34D664**
	30 gal, 55 gal	Steel		60 in x 26 in x 17 ½ in	Tread on Core Rubber	Prong	—	**9WCX3**
	55 gal	Plastic, Steel		62 ¼ in x 24 in x 21 in	Tread on Core Rubber	Prong	—	**447H71**
Powered Steel-Frame Drum Hand Trucks								
Dual Handle	30 gal, 55 gal	Plastic, Steel	800 lb	60 ½ in x 24 ½ in x 20 in	Semipneumatic Rubber	Prong	Valley Craft	**448F54**
	30 gal, 55 gal	Plastic, Steel		60 ½ in x 24 ½ in x 20 in	Flat-Free Rubber	Prong	Valley Craft	**448F53**
Knock-Down Steel-Frame Drum Hand Trucks								
Dual Handle	30 gal, 55 gal, 85 gal	Steel	1,000 lb	60 in x 24 ½ in x 17 ½ in	Tread on Core Polyurethane	Prong	Wesco	**445K75**
	30 gal, 55 gal, 85 gal	Plastic		60 in x 24 ½ in x 17 ½ in	Tread on Core Polyurethane	Prong	Wesco	**445K76**
Ergonomic Tilt-Back Steel-Frame Drum Hand Trucks								
Dual Handle	55 gal	Steel	1,000 lb	59 in x 24 in x 19 ½ in	Tread on Core Rubber	Prong	Dayton	**34D647**
Ergonomic Tilt-Back Dispensing Steel-Frame Drum Hand Trucks								
Dual Handle	55 gal	Steel	1,000 lb	56 ½ in x 24 in x 21 ½ in	Tread on Core Rubber	Prong	Dayton	**34D644**
	55 gal	Plastic		57 in x 24 in x 24 ½ in	Tread on Core Rubber	Prong	Dayton	**34D650**
	55 gal	Steel		57 in x 24 in x 24 ½ in	Tread on Core Polyolefin	Prong	Dayton	**34D665**
Ergonomic Tilt-Back Corrosion-Resistant Aluminum-Frame Drum Hand Trucks								
Dual Handle	30 gal, 55 gal, 85 gal	Plastic, Steel	700 lb	35 in x 28 in x 57 ½ in	Pneumatic Rubber	Prong	Dayton	**34D654**
	30 gal, 55 gal, 85 gal	Plastic, Steel	1,000 lb	37 ½ in x 25 in x 55 in	Tread on Core Rubber	Prong	Dayton	**34D652**
For Use with Pails								
Steel-Frame Pail Hand Trucks								
Continuous Frame Flow-Back	5 gal	Plastic	300 lb	55 in x 18 ½ in x 18 ½ in	Flat-Free Rubber	Prong	—	**9MK73**
Dual Handle	5 gal	Plastic	500 lb	55 in x 20 ½ in x 19 in	Semipneumatic Rubber	Prong	Dayton	**2NXC4**

Appliance Hand Trucks

Designed for moving commercial and household appliances, such as vending machines, refrigerators, and water heaters. Rear stair crawlers allow the hand trucks to roll smoothly over stairs and curbs. Belts are included for securing loads to the trucks.

Overall HxWxD	Load Capacity	Nose Plate Material	Nose Plate WxD	Load Protector	Brand	Item No.
Steel Appliance Hand Trucks						
60 in x 24 in x 11 in	700 lb	Steel	24 in x 4 ½ in	x	Dayton	**3W042**
	700 lb	Steel	24 in x 4 ½ in	x	Dayton	**4W326**
61 ½ in x 24 in x 15 in	750 lb	Steel	24 in x 5 ¼ in	x	Dayton	**34D669**
Corrosion-Resistant Aluminum Appliance Hand Trucks						
60 in x 24 in x 11 in	700 lb	Steel	24 in x 4 ½ in	x	Dayton	**3W311**
61 in x 24 in x 11 ½ in	550 lb	Aluminum	24 in x 4 ⅞ in		Dayton	**34D656**
Ergonomic Tilt-Back Steel Appliance Hand Trucks						
61 in x 24 in x 15 ½ in	1,200 lb	Steel	24 in x 5 ¼ in	x	Dayton	**4XKJ2**
66 in x 24 in x 15 ½ in	1,200 lb	Steel	24 in x 5 ¼ in	x	Dayton	**4XKJ3**
72 in x 24 in x 15 ½ in	1,200 lb	Steel	24 in x 5 ¼ in	x	Dayton	**4XKJ4**
78 in x 27 in x 16 in	1,800 lb	Steel	24 in x 5 in	x	—	**445K81**
Ergonomic Tilt-Back Corrosion-Resistant Aluminum Appliance Hand Trucks						
61 in x 24 in x 11 ½ in	550 lb	Aluminum	24 in x 4 ⅞ in		Dayton	**34D681**
66 ⅝ in x 22 ⅞ in x 15 ⅞ in	800 lb	Aluminum	23 in x 5 ¼ in		Magliner	**60MK66**

Steel Hand Truck 3W042

Ergonomic Tilt-Back Truck 34D681

Find ramps on page 1125.

Folding-Chair Hand Truck 30F012

File-Cabinet Hand Truck 2LRL3

Dayton

RAYMOND PRODUCTS

Furniture Hand Trucks

Stacking-chair hand trucks cradle columns of stackable chairs.

Folding-chair hand truck has hanger posts that hold multiple folding chairs.

File-cabinet hand truck has a nose plate that slides under the edge of a file cabinet, and an adjustable arm that grasps the top front edge of the cabinet.

Desk and table hand trucks have a nose plate that engages the legs of a table, and a lift fork that engages the bottom of the tabletop.

Load Capacity	Handle Type	Includes Stair Climber	Overall HxWxD	For Max. Number of Chairs	Wheel Type	Brand	Item No.
Stacking-Chair Hand Trucks							
240 lb	Continuous Frame Flow-Back		48 ½ in x 10 ½ in x 33 in	16	8 in Tread on Core Rubber Wheels	Dayton	**30F010**
			48 in x 14 in x 35 ½ in	16		Dayton	**30F009**
			50 in x 14 ½ in x 33 ½ in	16	10 in Pneumatic Rubber Wheels	Dayton	**30F011**
500 lb	Continuous Frame	x	60 in x 18 in x 36 in	10	10 in Flat-Free Rubber Wheels	—	**18F457**
Folding-Chair Hand Truck							
180 lb	Continuous Frame Flow-Back		44 in x 23 ½ in x 23 ½ in	16	8 in Tread on Core Rubber Wheels	Dayton	**30F012**
File-Cabinet Hand Truck							
400 lb	Continuous Frame Flow-Back		41 ½ in x 15 ½ in x 10 in	—	6 in Tread on Core Polyurethane Wheels	Dayton	**2LRL3**
Desk & Table Hand Trucks							
200 lb	Continuous Frame Flow-Back		45 in x 26 in x 8 ½ in	—	8 in Flat-Free Rubber Wheels	Raymond Products	**4DJW3**
	Single		46 in x 26 in	—	8 in Tread on Core Rubber Wheels	Dayton	**30F043**

Bag Truck 3W487

Mini-Pallet Truck 2LRL4

Dayton

Bag and Mini-Pallet Hand Trucks

Steel hand trucks transport mini-pallets of goods or irregularly shaped loads such as bags of cement, fertilizer, animal feed, and flour. Include dual handles, stair climbers, and wheel guards that prevent items on the trucks from rubbing against the wheels.

Description	Load Capacity	Nose Plate/Fork WxD	Overall HxWxD	Item No.
Bag Hand Truck	500 lb	19 in x 12 ¼ in	45 in x 19 in x 12 in	**3W487**
Mini-Pallet Hand Truck	1,000 lb	17 ¾ in x 14 ½ in	53 in x 25 ½ in x 24 in	**2LRL4**

Keg Hand Truck 4W324

Water-Bottle Hand Truck 59UY80 Bottles not included.

Dayton

MAGLINER®

Beverage-Delivery Hand Trucks

Used to move items such as kegs and 5-gal. water bottles. 59UY81 has an aluminum frame and aluminum nose plate; all others have an aluminum frame and steel nose plate. 59UY80 and 5PWC7 have rubber stops that help prevent items from sliding off the trucks.

Load Capacity	Overall HxWxD	Nose Plate WxD	Handle Type	For Number of Bottles	Brand	Item No.
Keg Hand Trucks With Stair Climber						
500 lb	51 in x 19 in x 14 in	10 in x 14 in	Continuous Frame Loop	—	Dayton	**4W324**
	51 in x 19 in x 14 in	10 in x 14 in	Continuous Frame Dual Pin	—	Dayton	**4W325**
Water-Bottle Hand Trucks						
300 lb	48 ½ in x 18 ½ in x 20 ½ in	13 ½ in x 9 in	Continuous Frame Single Pin	4	Magliner	**59UY81**
500 lb	48 in x 22 in x 24 in	14 in x 12 in	Continuous Frame Loop	5	Magliner	**5PWC7**
	48 in x 20 ½ in x 24 in	14 in x 12 in	Continuous Frame Flow-Back	4	Magliner	**59UY80**

Note: Sold in and must be used in pairs.

13V407

13V409

Dayton

Machinery and Equipment Movers

Movers have forks or noseplates that slide under heavy equipment such as furniture, crates, and machinery. Lifting mechanism reduces physical effort when raising equipment off the floor. Sold in pairs and must be used in pairs. Each mover requires one operator. 13V407, 13V408, 13V411, and 13V412 include load-securing straps.

Mechanical-lift movers have mechanical lift mechanism with hand pump lift control.

Hydraulic-lift movers require less physical effort to operate than mechanical-lift movers. Note: Sold in pairs and must be used in pairs.

Load Capacity	Overall LxWxH	Maximum Lifting Height	Caster Wheel Type	Caster Wheel/ Tread Material	Handle Type	Item No.
Mechanical-Lift Movers with Middle Nose Plate						
1,300 lb	23 in x 15 ½ in x 32 ½ in	15 in	Tread on Core	Polyurethane	Straight	**13V407**
1,320 lb	23 in x 15 in x 32 ½ in	12 in	Tread on Core	Polyurethane	Straight	**13V408**
Hydraulic-Lift Movers with Full-Length Nose Plate						
4,000 lb	26 ½ in x 15 in x 42 in	12 in	Tread on Core	Polyurethane	Straight	**13V411**
	29 in x 15 in x 49 in	12 in	Tread on Core	Polyurethane	Flow Back	**13V412**
Hydraulic-Lift Movers with Dual-Forks						
2,000 lb	23 in x 12 ½ in x 49 in	5 in	Solid	Phenolic	Flow Back	**13V409**
	23 in x 12 ½ in x 49 in	5 in	Tread on Core	Polyurethane	Flow Back	**13V410**
4,000 lb	23 in x 16 ½ in x 43 ⅝ in	12 in	Solid	Steel	Flow Back	**13V413**
	23 in x 16 ½ in x 43 ⅝ in	12 in	Tread on Core	Polyurethane	Flow Back	**13V414**
6,000 lb	23 in x 18 ½ in x 41 ½ in	6 in	Tread on Core	Polyurethane	Flow Back	**13V416**
	23 in x 18 ½ in x 41 ½ in	6 in	Solid	Steel	Flow Back	**13V415**
8,000 lb	23 in x 18 ½ in x 43 ½ in	8 in	Tread on Core	Polyurethane	Flow Back	**13V419**
10,000 lb	24 in x 18 ½ in x 47 ⅝ in	8 in	Solid	Steel	Flow Back	**13V420**
	24 in x 18 ½ in x 47 ⅝ in	8 in	Tread on Core	Polyurethane	Flow Back	**13V421**

Details on page A1.

Dolly Material Information

Aluminum dollies resist corrosion and are lighter than steel dollies.

Fiberwood dollies weigh less than wood dollies. They are less noisy and less likely to damage delicate materials or surface finishes than metal dollies.

Plastic dollies are lighter, more resistant to dents, and easier to clean than metal or wood dollies.

Steel dollies are more resistant to cracks and scratches than aluminum, wood, or plastic dollies.

Wood dollies make less noise and are less likely to damage delicate materials or surface finishes than metal dollies.

Wood Flush End
48J062

Steel Flush End
2TUL5

Plastic Raised End
10Z908

HAMILTON SNAP-LOC QUANTUM™ STORAGE SYSTEMS

Open-Deck General Purpose Dollies

Large open space in the middle of the deck prevents debris from collecting. Open center allows dollies to be hung when not in use. Open-deck dollies weigh less and are easier to carry than solid-deck dollies.

Deck Surface	Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Color	Brand	Item No.
Wood Dollies							
Raised End							
Carpeted	1,000 lb	29 ¾ in x 18 in x 5 ⅜ in	Solid Plastic	(4) Swivel	Brown	—	**48J068**
Rubber Padded		29 ¾ in x 17 ½ in x 5 ½ in	Solid Plastic	(4) Swivel	Brown	—	**48J070**
		29 ¾ in x 17 ½ in x 6 ½ in	Solid Plastic	(4) Swivel	Brown	—	**48J071**
Smooth		16 ¼ in x 16 ⅛ in x 5 ⅜ in	Solid Plastic	(4) Swivel	Brown	—	**48J067**
		29 ¾ in x 18 in x 6 ⅜ in	Solid Plastic	(4) Swivel	Brown	—	**48J069**
Flush End							
Smooth	1,000 lb	24 in x 16 ⅛ in x 5 ⅛ in	Solid Plastic	(4) Swivel	Brown	—	**48J062**
		30 in x 18 in x 5 ⅛ in	Solid Plastic	(4) Swivel	Brown	—	**48J063**
		35 ⅞ in x 24 in x 6 ⅜ in	Solid Plastic	(4) Swivel	Brown	—	**48J064**
Textured		30 in x 18 in x 7 in	Solid Polyurethane	(4) Swivel	Brown	—	**48J072**
Steel Dollies							
Raised End							
Smooth	3,000 lb	24 in x 18 in x 7 ½ in	Tread on Core Phenolic	(4) Swivel	Silver	Hamilton	**6AZT4**
Flush End							
Smooth	1,600 lb	30 in x 18 in x 5 ¼ in	Solid Rubber	(4) Swivel	Red	—	**2TUL5**
		36 in x 24 in x 5 ¼ in	Solid Rubber	(4) Swivel	Red	—	**2TUL6**
	2,000 lb	24 ½ in x 34 in x 7 in	Solid Rubber	(4) Swivel with Brake	Red	—	**48J131**
		27 in x 16 in x 5 ½ in	Solid Steel	(4) Swivel	Green	Fairbanks	**18F461**
		30 in x 18 in x 5 ¼ in	Solid Iron	(4) Swivel	Red	—	**2TUL7**
		36 in x 24 in x 5 ¼ in	Solid Iron	(4) Swivel	Red	—	**2TUL8**
	3,000 lb	24 ½ in x 34 in x 8 ⅞ in	Solid Rubber	(4) Swivel with Brake	Red	—	**48J132**
Textured	1,500 lb	32 in x 20 ½ in x 7 in	Tread on Core Polyurethane	(4) Swivel with Brake	Black	Snap-Loc	**20UY83**
		32 in x 20 ½ in x 7 in	Tread on Core Polyurethane	(4) Swivel with Brake	Red	Snap-Loc	**40AL30**
		32 in x 20 ½ in x 9 ½ in	Solid Rubber	(4) Swivel with Brake	Black	Snap-Loc	**40AL24**
		32 in x 20 ½ in x 9 ½ in	Solid Rubber	(4) Swivel with Brake	Red	Snap-Loc	**40AL27**
Plastic Dollies							
Raised End							
Rubber Padded	1,000 lb	30 in x 18 in x 6 ½ in	Tread on Core Polyurethane	(4) Swivel	Blue	—	**10Z908**
		30 in x 18 in x 6 ½ in	Solid Polyurethane	(4) Swivel	Blue	Quantum	**1UVT1**
	1,200 lb	30 in x 18 in x 6 ½ in	Tread on Core Polyurethane	(4) Swivel	Red	—	**35YM02**
		30 in x 18 in x 6 ½ in	Tread on Core Polyurethane	(4) Swivel	Blue	—	**35YM03**
Flush End							
Smooth	1,000 lb	30 in x 18 in x 6 ½ in	Tread on Core Polyurethane	(4) Swivel	Blue	—	**10Z909**
	1,200 lb	30 in x 18 in x 6 ½ in	Tread on Core Polyurethane	(4) Swivel	Red	—	**35YM01**
Aluminum Dollies							
Flush End							
Smooth	900 lb	24 in x 18 in x 5 ¾ in	Tread on Core Plastic	(4) Swivel	Silver	—	**2TUP1**
		30 in x 21 in x 5 ¾ in	Tread on Core Plastic	(4) Swivel	Red	—	**2TUP2**
	2,000 lb	36 in x 20 ⅞ in x 9 ¼ in	Solid Nylon	(4) Swivel	Silver	—	**2TUN8**
		42 in x 24 in x 9 ¼ in	Solid Nylon	(4) Swivel	Silver	—	**2TUN9**

Wood Flush End
48J065

Plastic Flush End
10Z905

Steel Raised End
24WF58

Solid-Deck General Purpose Dollies

Solid deck prevents small items from falling through. Can support bags and other irregularly shaped loads.

Deck Surface	Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Color	Item No.
Wood Dollies						
Flush End						
Smooth	1,000 lb	30 in x 18 in x 4 ⅜ in	Solid Plastic	(4) Swivel	Brown	**4UAX4**
		30 in x 18 in x 5 ⅛ in	Solid Plastic	(4) Swivel	Brown	**48J065**
		35 ⅞ in x 24 in x 6 ⅜ in	Solid Plastic	(4) Swivel	Brown	**48J066**
		16 ¼ in x 16 ⅛ in x 4 ⅜ in	Solid Plastic	(4) Swivel	Brown	**4UAX5**
		24 in x 16 ⅛ in x 5 in	Solid Plastic	(4) Swivel	Brown	**3JJG1**
Fiberwood Dollies						
Flush End						
Textured	600 lb	35 ⅞ in x 24 in x 4 ⅜ in	Solid Plastic	(4) Swivel	Black	**48J078**
	800 lb	24 in x 18 in x 4 ⅜ in	Solid Plastic	(4) Swivel	Black	**48J081**
Plastic Dollies						
Flush End						
Rubber Padded	220 lb	23 ½ in x 15 ¾ in x 4 ½ in	Tread on Core Plastic	(4) Swivel	Blue	**10Z905**
	300 lb	23 ½ in x 15 ¾ in x 4 ½ in	Tread on Core Plastic	(4) Swivel	Black	**10Z910**
	500 lb	28 ⅜ in x 18 ⅞ in x 6 ⅜ in	Tread on Core Thermoplastic Rubber	(4) Swivel	Blue	**10Z906**
		35 ⅜ in x 23 ¼ in x 8 in	Tread on Core Thermoplastic Rubber	(4) Swivel	Blue	**10Z907**
Steel Dollies						
Flush End						
Smooth	1,000 lb	24 in x 18 in x 4 in	Solid Rubber	(4) Swivel	Red	**48J095**
		36 in x 24 in x 4 in	Solid Rubber	(4) Swivel	Red	**48J097**
	1,600 lb	30 in x 18 in x 5 ½ in	Solid Rubber	(4) Swivel	Red	**2TUL9**
		36 in x 24 in x 5 ½ in	Solid Rubber	(4) Swivel	Red	**2TUN1**
	2,000 lb	30 in x 18 in x 5 ⅜ in	Solid Iron	(4) Swivel	Red	**2TUN2**
		36 in x 24 in x 5 ⅝ in	Solid Iron	(4) Swivel	Red	**2TUN3**
Raised End						
Smooth	900 lb	19 ½ in x 14 in x 5 ⅜ in	Tread on Core Plastic	(4) Swivel	Gray	**24WF56**
		24 ¼ in x 16 ¼ in x 5 ⅜ in	Tread on Core Plastic	(4) Swivel	Gray	**24WF58**
		27 ½ in x 17 ½ in x 5 ⅜ in	Tread on Core Plastic	(4) Swivel	Gray	**24WF57**

Wood Flush End
8E226

Steel Raised End
43Z132

Steel Low Profile
4ZD55

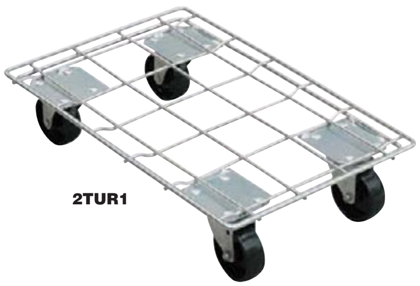
ROBERTS

Adjustable-Length Open-Deck Dollies

Deck can be made longer or shorter to hold various load sizes. Deck has a large open space in the middle that prevents debris from collecting. 4ZD55 is a low-profile dolly that raises loads by less than 1", which keeps equipment on the dollies close to the ground.

Deck Surface	Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Color	Brand	Item No.	
Wood Dollies								
Flush End								
Carpeted	1,000 lb	12 in x 4 ¾ in x 3 ¼ in	Tread on Core Polypropylene	(4) Swivel	Black	—	52TW99	
		31 ⅞ in x 8 ¼ in x 3 ⅜ in	Solid Plastic	(8) Swivel	Natural	—	8E226	
	1,200 lb	18 in x 4 ¾ in x 3 ¼ in	Tread on Core Polypropylene	(4) Swivel	Black	—	52TX01	
Steel Dollies								
Raised End								
Carpeted	1,000 lb	33 in x 10 ¼ in x 4 ¾ in	Solid Polyurethane	(4) Swivel	Red	Roberts	43Z132	*
Smooth	500 lb	—	Solid Rubber	(2) Rigid, (2) Swivel	Black	—	4ZD55	

** Sold as a pair.*



2TUR1

Wire General Purpose Dollies

Wire deck has large openings that allow air to circulate and let dirt and debris fall through, which helps keep dollies clean. Can support bags and other irregularly shaped loads. Raised edge prevents items from sliding off the dollies while moving.

Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Color	Item No.
880 lb	24 ½ in x 16 ½ in x 6 in	Tread on Core Polyurethane	(4) Swivel	Silver	2TUR1
	32 ½ in x 24 ½ in x 6 in	Tread on Core Polyurethane	(4) Swivel	Silver	2TUR2

48J098

Perforated-Deck General Purpose Dollies

Steel dollies have small openings that allow dirt and debris to fall through the deck, which helps keep it clean. Can support small items and irregularly shaped loads.

Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Color	Item No.
Flush Ends & Smooth Deck Surface					
1,000 lb	36 in x 24 in x 4 in	Solid Rubber	(4) Swivel	Red	48J094
Raised Ends & Smooth Deck Surface					
1,000 lb	36 in x 24 in x 6 in	Solid Rubber	(4) Swivel	Red	48J098

4MC28

Convertible Solid-Deck Plastic General Purpose Dollies

Rubbermaid Commercial Products

Three-position handle can be used to push or pull the dolly like a platform truck. Handle folds flat when not in use to save space when storing the dolly. Solid deck prevents small items from falling through, and can support bags and other irregularly shaped loads.

Deck Surface	Load Capacity	Deck LxWxH	Caster Wheel Type/Material	Caster/Wheel Configuration	Item No.
Textured	500 lb	32 ½ in x 20 ½ in x 7 in	Tread on Core Polypropylene	(2) Swivel, (2) Rigid	4MC28
	250 lb	32 ½ in x 20 ½ in x 7 in	Tread on Core Polypropylene	(4) Swivel	4MC27

Find more information on dolly construction on page 1188.

Corner Mount
Recessed Pocket
2TUT2

Edge Mount
V-Groove Platform
48J129

Leg Mount
Recessed Pocket
2TUT1

Edge Mount
Recessed Platform
48J128

Leg, Edge, and Corner Mount Desk and Furniture Dollies

Small, portable dollies are placed under the legs, edges, or corners of furniture and other large items to easily move them. Each dolly consists of a small wheeled platform or pocket, and one dolly is required for each leg, edge, or corner of the item being moved.

Pocket Style	Overall HxWxD	Load Capacity	Caster/Wheel Configuration	Color	Item No.	Pkg. Qty.
Corner Mount Recessed Pocket	3 ½ in x 10 ¼ in x 10 ¼ in	1,320 lb	(12) Swivel	Red	**2TUT2**	4
	3 ½ in x 8 ¾ in x 8 ¾ in	880 lb	(12) Swivel	Red	**2TUR9**	4
Edge Mount V-Groove Platform	4 in x 8 in x 8 in	500 lb	(4) Swivel	Black	**48J129**	2
	4 in x 8 in x 8 in	500 lb	(8) Swivel	Black	**48J130**	4
Edge Mount Recessed Platform	4 in x 19 ¾ in x 8 in	400 lb	(3) Swivel	Red	**48J128**	1
	3 in x 19 ¾ in x 8 in	550 lb	(4) Swivel	Red	**14G827**	1
Leg Mount Recessed Pocket	3 ½ in x 6 ½ in x 7 ¾ in	880 lb	(12) Swivel	Red	**2TUT1**	4
Trivet-Style Leg Mount Recessed Pocket	2 in x 6 ½ in x 6 ½ in	200 lb	(3) Swivel	Silver	**3JJF2**	1

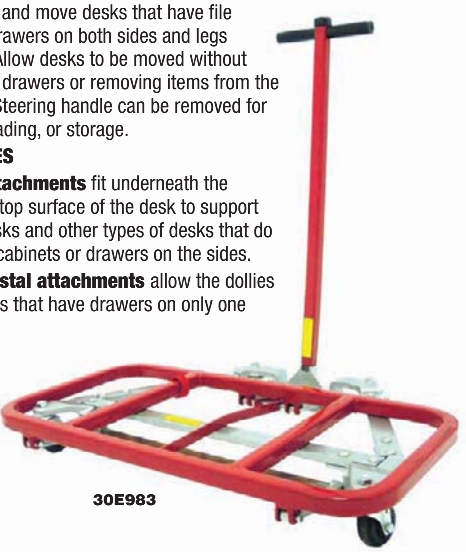
Lift-and-Roll Desk Dollies

Used to raise and move desks that have file cabinets or drawers on both sides and legs underneath. Allow desks to be moved without emptying the drawers or removing items from the top surface. Steering handle can be removed for loading, unloading, or storage.

ACCESSORIES

Table-lift attachments fit underneath the center of the top surface of the desk to support computer desks and other types of desks that do not have file cabinets or drawers on the sides.

Single-pedestal attachments allow the dollies to move desks that have drawers on only one side.



30E983

Platform WxD	Lowered Height	Raised Height	Overall HxWxD	Load Capacity	Brand	Item No.
Lift-and-Roll Desk & Furniture Dollies						
32" x 16"	4¼"	9¾"	42" x 32" x 22½"	600 lb	Raymond Products	**4ADE2**
	4¾"	10¼"	42¼" x 32" x 22½"	600 lb	Raymond Products	**4ADE5**
	5"	9¾"	42½" x 32" x 22½"	600 lb	Dayton	**30E983** *
	5½"	10¼"	42½" x 32" x 22½"	600 lb	Dayton	**30E986** *
		10¾"	42½" x 32" x 22¾"	600 lb	Raymond Products	**4ADE8**
		10¾"	43" x 32" x 22¾"	600 lb	Dayton	**30E989** *
	6"	11¼"	42¾" x 32" x 22¾"	600 lb	Raymond Products	**4ADF2**
		11¼"	43" x 32" x 22¾"	600 lb	Dayton	**30E992** *
40" x 16"	1¼"	6¼"	42¾" x 40" x 22¾"	600 lb	Dayton	**30E995** *
	4¼"	9¾"	42" x 40" x 22½"	600 lb	Raymond Products	**4ADE3**
		10¼"	42¼" x 40" x 22½"	600 lb	Raymond Products	**4ADE6**
	4¾"	10¼"	42¾" x 40" x 22½"	600 lb	Dayton	**30E987** *
	5"	9¾"	42½" x 40" x 22½"	600 lb	Dayton	**30E984** *
	5½"	10¾"	42½" x 40" x 22¾"	600 lb	Raymond Products	**4ADE9**
		10¾"	43" x 40" x 22¾"	600 lb	Dayton	**30E990** *
	6"	11¼"	42½" x 40" x 22¾"	600 lb	Dayton	**30E993** *
		11¼"	42¾" x 40" x 22¾"	600 lb	Raymond Products	**4ADF3**
46" x 16"	4¼"	9¾"	42" x 46" x 22½"	600 lb	Raymond Products	**4ADE4**
	4¾"	10¼"	42¼" x 46" x 22½"	600 lb	Raymond Products	**4ADE7**
	5"	9¾"	42½" x 46" x 22½"	600 lb	Dayton	**30E985** *
	5½"	10¼"	42¾" x 46" x 22½"	600 lb	Dayton	**30E988** *
		10¾"	42½" x 46" x 22¾"	600 lb	Raymond Products	**4ADF1**
		10¾"	42¾" x 46" x 22¾"	600 lb	Dayton	**30E991** *
	6"	11¼"	42½" x 46" x 22¾"	600 lb	Dayton	**30E994** *
		11¼"	42¾" x 46" x 22¾"	600 lb	Raymond Products	**4ADF4**

Item	Load Capacity	Overall HxWxD	Brand	Item No.
Accessories				
Table-Lift-Attachment	250 lb	17" x 20" x 19"	Raymond Products	**4ADF6**
Table-Lift-Attachment	250 lb	17½" x 20" x 19"	Dayton	**30E996**
Single-Pedestal-Attachment	250 lb	17½" x 14½" x 19"	Dayton	**30E997**
Single-Pedestal-Attachment	250 lb	16" x 13" x 13"	Raymond Products	**4ADF7**

** Swivel casters.*

Machine Rollers

Rollers are placed under industrial machinery and other heavy equipment to move them.

Steering bars connect to a single machine roller to improve operator control when maneuvering large loads in tight areas.

Turning bars connect three machine rollers together to provide increased weight capacity and stability when maneuvering turns compared to individual rollers.

Rubber Padded
Fixed Plate
2MPR8

Textured
Swivel Plate
21D021

Load Capacity	Top Plate LxW	Caster/Roller Configuration	Roller Tread Material	Item No.
Rubber Padded Fixed Plate				
2,200 lb	5 ¾ in x 8 ¾ in	(4) Rollers	Nylon	**2MPR4**
	16 in x 13 ⅜ in	(4) Swivel	Nylon	**2MPT1**
	17 in x 13 ⅜ in	(2) Swivel, (2) Rigid	Nylon	**2MPR9**
4,400 lb	13 in x 8 ¾ in	(8) Rollers	Nylon	**2MPR5**
5,500 lb	8 ¼ in x 5 in	(2) Rollers	Nylon	**2MPR6**
6,600 lb	8 ¼ in x 11 ⅞ in	(4) Rollers	Nylon	**2MPR7**
13,200 lb	10 ¼ in x 9 in	(6) Rollers	Nylon	**2MPR8**
Textured Swivel with Lock Plate				
2,000 lb	3 ½ in x 3 ½ in	(15) Rollers	Steel	**21D020**
8,000 lb	5 ¾ in x 5 ¾ in	(15) Rollers	Steel	**21D021**
15,000 lb	5 ¾ in x 5 ¾ in	(15) Rollers	Steel	**21D022**
30,000 lb	5 ¾ in x 5 ¾ in	(15) Rollers	Steel	**21D023**

Handle Length	Compatible Grainger Part No.	Overall Length	Item No.
Steering Bar			
9 ½ in	21D020	36 in	**21D024**
		49 ½ in	**21D025**
	21D021, 21D022, 21D023	36 in	**21D026**
		49 ½ in	**21D027**
Turning Bar			
36 in	21D021, 21D022, 21D023	36 in	**21D028**

2MPP9

2MWK6

Machine Roller Kits

All kits include 4 machine rollers and 2 steering handles for moving large loads and equipment. Kits also come with a lockable steel case (except 2MWK3 and 2MWK4, which do not include case).

Dayton kits have steel rollers. 2MPR1 to 2MPR3 have spring-loaded locks at 45° increments.

Hilman kits 2MWK5 to 2MWK8 have rollers constructed of high-impact nylon that will not damage finished floor surfaces. All others have steel rollers.

Dayton®—Steel rollers. 2MPR1 to 2MPR3 have spring-loaded locks at 45° increments.

Hilman—2MWK5 to 2MWK8 have rollers constructed of high-impact nylon that will not damage finished floor surfaces. All others have steel rollers.

Load Capacity	Handle Length	Item No.
Dayton		
8,800 lb	33 ½ in	**2MPP9**
33,000 lb	54 ½ in	**2MPR1**
88,000 lb	54 ½ in	**2MPR2**
132,000 lb	50 in	**2MPR3**
Hilman		
6,000 lb	14 5⁄16 in	**6W041**
8,000 lb	28 ¼ in	**2MWK5**
16,000 lb	28 ¼ in	**6W042**
16,000 lb	48 in	**2MWK6**
24,000 lb	48 in	**2MWK7**
30,000 lb	48 in	**3VH82**
48,000 lb	48 in	**2MWK8**
80,000 lb	48 in	**6W043**
120,000 lb	48 in	**3VH83**
240,000 lb	60 in	**2MWK3**
400,000 lb	60 in	**2MWK4**

Caster Selection Guide

Swivel Caster: Caster raceway capable of rotating 360°.

Rigid Caster: Fixed caster without a raceway, that can roll forward or backward, but restricted from swiveling 360˚.

Kingpinless Caster: Swivel caster constructed without a kingpin, provides a superior raceway for shock conditions.

Bolt Hole Caster: Stemless caster where a standard bolt is inserted into the hole and bolted to the equipment.

Pneumatic Caster: Air-filled wheels, designed for low-speed manually moved applications, providing a cushioned ride, shock absorption, and quiet operation.

Semipneumatic Caster: Extra-thick, solid, soft rubber tire has no air and eliminates the risk of a flat tire. Designed to reduce the vibration and shock caused by floor surfaces which are not smooth.

Solid Rubber Wheel Caster: Designed for high-capacity applications, featuring a solid tire construction.

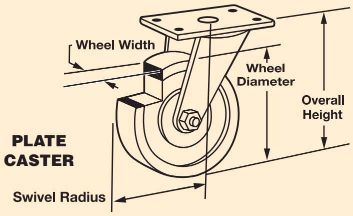
Brake: Prevents movement of the caster wheel. Not designed to stop moving equipment, nor intended for use on ramps or inclines.

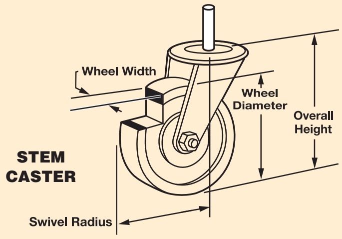
4-Position Directional Lock: Locks the swivel of the caster to a rigid position, for straight line travel.

Total Lock: Simultaneously locks both the swivel and wheel of the caster to hold equipment in place.

Flat-Free Wheel: Solid, super elastic solid rubber tire provides shock-absorption and load handling characteristics similar to a pneumatic tire with the benefit of never going flat.

Wheel Size & Overall Height





Wheel Material Guide

Cast Iron: High-capacity and abrasion-resistant for easy rolling and long service life on concrete.

Ductile Iron: Superior resistance to breakage, cracking, and chipping for long service life in the most severe of applications.

Forged Steel: Indestructible in normal applications and long service life. Used where floor protection is a secondary consideration, or for use on steel plates.

Glass-Filled Nylon: Will not chip, absorb water, or breakdown in caustic environments.

Neoprene: High resistance from oil and chemicals while providing sufficient cushioning to substantially lower or eliminate shock, vibration, and noise levels.

Nylon: Withstands solvents, corrosive environments, and temperature extremes.

Phenolic: Highly resistant to oil, grease, gasoline, and mild acids. Recommended for use on smooth concrete. Not recommended for wet applications or use over rough surfaces.

Polyolefin: Lightweight, one-piece solid sanitary design suited for use in wet and corrosive applications.

Polypropylene: Resists absorption and withstands most chemicals and solvents.

Polyurethane: Easy-rolling wheels, cushion loads, protect floors, and offer superior chemical resistance.

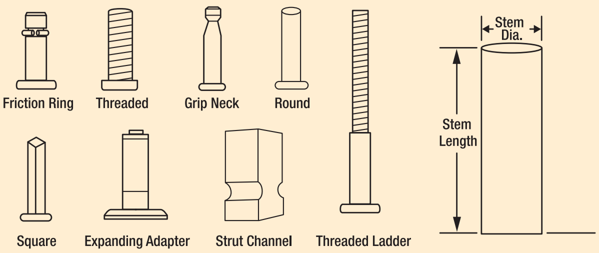
Rubber: Long-wearing wheel provides floor protection and quiet operation.

Stainless Steel: Strong and durable design, ideal for use in a wet, corrosive, or sanitary environments.

Steel: Provides strength and shock resistance with long service life and economy for use in rough service conditions.

Thermoplastic Rubber (TPR): Chemical- and water-resistant, absorbs shock and protects floors, while providing easy rollability.

Stem Types



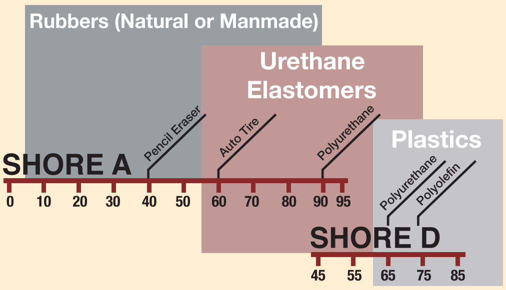
Floor-to-Wheel Guide

	Forged Steel	V-Groove Forged Steel	V-Groove Iron	V-Groove Polyurethane	Cast Iron	Phenolic	Hig Temperature Phenolic	Hig Temperature Nylon	Polyolefin	Hard Rubber	Soft Rubber	Rubber on Aluminum	Rubber on Cast Iron	Thermoplastic Rubber	Pneumatics
Finished Wood Floor	X	X	X	X	X	X	X	X	F	G	G	G	G	G	G
Finished Concrete Floor	F	X	X	X	F	E	E	E	E	G	E	E	E	E	E
Concrete Floor	G	X	X	X	G	E	E	E	E	G	E	E	E	E	E
Ceramic Tile	X	X	X	X	X	X	X	X	F	F	G	G	G	G	G
Vinyl Asphalt Rubber Tile	X	X	X	X	X	F	F	F	F	F	G	G	G	G	G
Oil, Grease, Solvents	G	G	G	G	G	F	F	F	E	G	G	G	G	G	F
Alkaline - Inorganic	F	F	F	G	G	F	F	F	E	G	G	G	G	G	F
Metal Chips on Floor	F	X	X	X	F	F	F	F	F	F	E	E	E	E	X

E = Excellent G = Good F = Fair X = Not Recommended

Wheel/Tread Hardness Rating

Measures the hardness of the wheel material—the higher the number, the harder the material. The preferred method is using either the Shore A or Shore D scale.



Load Rating

Load Rating is the maximum weight (lb.) each caster can support individually. To determine the appropriate rating for your application, divide the total weight of the load by the number of casters that will support it. It is recommended that you utilize a safety factor and multiply your load capacity by 1.33. It is important to choose a caster with a capacity that exceeds, rather than meets, load requirements.

$$\text{Load Rating} = \frac{\text{Load Capacity} \times 1.33}{\text{No. of Wheels}}$$

Light-Duty Standard Plate Casters

Install onto carts, dollies, food-service equipment, business machines, store fixtures, and similar equipment that will be moved manually at moderate speeds. Casters have zinc-plated steel frames and are suitable for transporting relatively light loads along smooth, flat surfaces in offices, retail stores, schools, government buildings, and other settings where they won't encounter shock loading.

Rigid Caster 1ULJ1

Swivel Caster w/ Total Lock 2G035

Swivel w/ Brake 33H636

Swivel Caster 1UKW8

Plate A

Plate B

Plate C

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size**	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Thermoplastic Rubber Tread							
Plain Bearing							
2"	75 lb	2 7⁄16"	1 ⅞" x 2 9⁄16"	D	435X74	435X76	435X75
3 ⅞"	220 lb	4 ⅜"	2 ½" x 3 ⅝"	C	—	490V25	—
	245 lb	5 ⅜"	2 ½" x 3 ⅝"	C	—	490V24	—
4"	135 lb	4 13⁄16"	2 ¾" x 3 ¾"	D	—	1UHN1	—
Precision Ball Bearing							
2"	110 lb	2 13⁄16"	2 ⅜" x 2 ⅜"	B	—	490V26	—
3"	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	1UHY2	—	1UHY6 *
4"	250 lb	5 ⅛"	2 ½" x 3 ⅝"	C	1UHY4	—	1UHY8 *
	250 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	—	1UHZ3	—
5"	325 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	400K44	1UHZ4	1UHY9 *
Roller Bearing							
4"	350 lb	5 ⅝"	4" x 4 ½"	B	—	1ULJ1	—
5"	400 lb	6 ½"	4" x 4 ½"	B	—	—	435X89
Delrin Bearing							
3"	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	1UHW8	1UHX7	1UHX3 *
	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	—	1UHZ1	—
4"	300 lb	5 ⅛"	2 ½" x 3 ⅝"	C	1UHX1	—	1UHX5 *
	300 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	—	1UHX9	—
5"	325 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	1UHX2	1UHY1	1UHX6 *
Soft Rubber Tread							
Plain Bearing							
2"	75 lb	2 ½"	1 3⁄16" x 2"	D	3A814	—	—
	110 lb	2 11⁄16"	2 ⅜" x 2 ⅜"	A	16D121	19YD35	16D122
2 ½"	175 lb	3 ¼"	2 ¾" x 3 ⅞"	D	454Y33	—	487G82
	175 lb	3 ¼"	2 ⅛" x 4 ⅜"	D	—	487G90	—
3"	120 lb	3 ½"	1 ¾" x 2 ⅝"	D	454Y32	487G73	—
	125 lb	3 ¾"	3 ⅛" x 4 ⅛"	A	1UKP7	—	—
	154 lb	3 13⁄16"	2 ⅜" x 2 ⅜"	A	16D123	—	16D124
4"	130 lb	4 ⅞"	2 ½" x 3 ⅝"	C	487G72	489A57	—
	130 lb	4 ⅞"	3 ⅝" x 2 ½"	D	489A56	—	—
	165 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	5X729	—	—
	225 lb	5"	4" x 5 ⅛"	D	33H787	—	—
	250 lb	5"	4" x 5 ⅛"	D	—	—	487H08
Precision Ball Bearing							
4"	300 lb	5 ⅛"	3 ⅝" x 2 ½"	D	—	—	55FE13 *
5"	200 lb	6 3⁄16"	3 ¾" x 4 ⅜"	B	440A72	—	—
8"	1100 lb	9 ¼"	4" x 4 ½"	B	—	—	490W23 †
Roller Bearing							
4"	350 lb	5 ⅝"	4" x 4 ½"	B	—	1NWJ1	—
Delrin Bearing							
2"	75 lb	2 ½"	1 ⅞" x 2 ⅝"	D	1UHH5	—	1UHJ1
3"	100 lb	3 11⁄16"	1 ⅞" x 2 ⅝"	D	1UHH6	—	1UHJ2
	125 lb	3 ¾"	3 ⅛" x 4 ⅛"	A	—	1UKR6	1UKR2
	125 lb	4 ¼"	2 ½" x 3 ⅝"	C	490V58	490V50	—
4"	150 lb	5 ⅛"	2 ½" x 3 ⅝"	C	490V60	490V52	490V61
5"	175 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	—	—	490V63
Firm Thermoplastic Rubber Tread							
Plain Bearing							
3"	100 lb	3 ½"	1 ¾" x 2 ⅝"	D	—	—	1UHL1
	120 lb	3 ½"	1 ¾" x 2 ⅝"	D	489A58	—	—
5"	220 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	489A59	489A60	—
Precision Ball Bearing							
3"	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	4DE57	—	—
	210 lb	4 ¼"	2 ½" x 3 ⅝"	C	—	—	2G035 *
Delrin Bearing							
5"	240 lb	6 ¼"	4" x 4 ½"	B	487G89	—	487G83
Firm Rubber Tread							
Plain Bearing							
5"	145 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	—	—	1UHL7
Precision Ball Bearing							
3"	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	—	—	490V55
3 ½"	250 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	1UHY3	—	1UHY7 *
4"	300 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	—	490V56
5"	325 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	—	—	490V57
Delrin Bearing							
3 ½"	250 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	1UHW9	—	—
4"	115 lb	4 13⁄16"	2 ¾" x 3 ¾"	D	—	1UHK2	—
Firm Polyurethane Tread							
Plain Bearing							
3"	125 lb	3 13⁄16"	2 ¾" x 3 ¾"	D	1UHN3	1UHP3	1UHN6
4"	550 lb	5 5⁄16"	4" x 4 ½"	B	487G94	487H07	—
5"	145 lb	5 ¾"	2 ¾" x 3 ¾"	D	1UHN5	1UHP5	1UHN8
Precision Ball Bearing							
3"	250 lb	4 ¼"	2 ½" x 3 ⅝"	C	—	1UKA4	—
3 ½"	275 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	—	—	435X80 *
4"	250 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	4DE53	4DE54	—
	350 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	1UHZ7	1UKA6	1UKA2 *
	400 lb	5 ⅛"	2 ⅜" x 3 ⅝"	D	45XC24	45XC26	45XC25 *
5"	250 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	4DE55	4DE56	—
	350 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	1UHZ8	1UKA7	435X81 *
	450 lb	6 ¼"	2 ⅜" x 3 ⅝"	D	45XC27	45XC29	45XC28 *
Delrin Bearing							
3"	175 lb	3 ¾"	2 ¾" x 3 ¾"	D	—	—	400K66
4"	195 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	—	—	400K67
5"	220 lb	5 ⅝"	2 ¾" x 3 ¾"	D	—	435X69	400K68
Hard Rubber Tread							
Plain Bearing							
2"	75 lb	2 7⁄16"	1 ⅞" x 2 9⁄16"	D	435X85	435X88	435X83
	100 lb	2 ½"	1 ⅞" x 2 9⁄16"	D	437V27	—	—
	150 lb	2 7⁄16"	1 ⅞" x 2 9⁄16"	B	—	—	33H636
3"	210 lb	3 3⁄16"	3 ⅛" x 4 ⅛"	C	487G95	—	—
4"	176 lb	5 3⁄16"	3" x 3"	D	16D125	—	16D126
	225 lb	5 ⅛"	4" x 5 ⅛"	D	435X86	—	435X87
5"	200 lb	5 ⅞"	2 ½" x 3 ⅝"	C	437V26	400K72	—
Delrin Bearing							
2 ½"	175 lb	3 ⅜"	2 ½" x 3 ⅝"	C	1UKU1	—	1UKU6
	175 lb	3 ⅜"	2 ½" x 3 ⅝"	C	435X95	—	—
	175 lb	3 ⅜"	2 ½" x 3 ⅝"	D	—	435X96	—
3 ½"	250 lb	4 11⁄16"	3 ¾" x 4 ⅜"	B	454Y16	—	—
4"	300 lb	5 ⅛"	3 3⁄16" x 6 5⁄32"	C	—	1UKV5	—
	350 lb	5 ⅛"	3 ⅛" x 4 ⅛"	C	454Y21	—	—
Hard Polyurethane Tread							
Plain Bearing							
4"	240 lb	5 ⅛"	2 ½" x 3 ⅝"	C	489A61	489A63	489A62 *
Delrin Bearing							
4"	350 lb	5 5⁄16"	4" x 4 ½"	B	—	—	487G84
5"	440 lb	6 ¼"	4" x 4 ½"	B	—	—	487G88
Hard Polypropylene Tread							
Plain Bearing							
3"	120 lb	3 ½"	1 ¾" x 2 ⅝"	D	489A64	—	—
	210 lb	3 13⁄16"	3 ⅛" x 4 ⅛"	C	—	—	440A70
Precision Ball Bearing							
4"	275 lb	5 ⅛"	3 ¾" x 4 ⅜"	B	440A73	33J013	33H644
5"	300 lb	6 3⁄16"	3 ¾" x 4 ⅜"	B	440A74	33J008	33H645
	300 lb	6 3⁄16"	3 ⅛" x 4 ⅛"	C	—	—	490V54 *
Hard Polyolefin Tread							
Plain Bearing							
2"	100 lb	2 ½"	1 ⅞" x 2 ⅝"	D	1UHP6	1UHT1	1UHR2
4"	140 lb	4 13⁄16"	2 ¾" x 3 ¾"	D	416P27	—	—
	140 lb	4 13⁄16"	2 ¾" x 3 ¾"	D	1UHP9	—	—
6"	400 lb	7 5⁄16"	3 ⅛" x 4 ⅛"	A	33J010	—	—
Delrin Bearing							
3"	175 lb	3 ¾"	2 ¾" x 3 ¾"	D	4X694	4X696	—
4"	195 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	426A81	426A82	5UX72
5"	220 lb	5 ¾"	2 ¾" x 3 ¾"	D	4X695	—	—
	220 lb	5 ⅝"	2 ¾" x 3 ¾"	D	—	—	5UX74
Hard Phenolic Tread							
Plain Bearing							
3"	225 lb	3 ¾"	3 ⅛" x 4 ⅛"	A	493W80	493W82	493W81
Roller Bearing							
3"	350 lb	4 ¼"	3 ¾" x 4 ½"	B	33H775	—	—
	500 lb	3 ⅞"	4" x 4 ½"	B	426A89	—	—
Ball Bearing							
3"	500 lb	3 ⅞"	3 ⅛" x 4 ⅛"	A	55KC25	—	—
	500 lb	3 ⅞"	3 ¾" x 4 ⅝"	B	55KC26	—	—
Hard Nylon Tread							
Plain Bearing							
4"	330 lb	5"	4" x 3 ⅛"	A	16D109	16D108	16D110 *
5"	330 lb	6"	3 ⅛" x 4"	A	16D115	16D114	16D116 *
Extra-Hard Iron Tread							
Plain Bearing							
2"	125 lb	2 11⁄16"	1 15⁄16" x 2 9⁄16"	D	1UKW6	1UKX7	1UKX2
2 ½"	175 lb	3 ¼"	2 ¾" x 3 ⅞"	D	33H732	—	488T97
3"	250 lb	3 ¾"	3 ⅛" x 4 ⅛"	A	1UKW8	1UKX9	1UKX4
	300 lb	3 3⁄16"	3 ⅛" x 4 ⅛"	C	455U12	—	—
4"	250 lb	5"	4" x 5 ⅛"	D	33J090	—	488T98

** With total lock. † With four-position swivel lock. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

Light-Duty Standard Plate Casters for Furniture

Swivel casters mount onto chairs, furniture, and other office equipment that will be moved manually at moderate speeds. Casters have a decorative frame finish that enhances the look of the furniture or equipment. Suitable for transporting light loads along smooth, flat surfaces in offices and other areas where they won't encounter shock loading.

Tread Style	Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Frame Finish	Brand	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Rubber Tread	2"	75 lb	2 1/2"	1 3/16" x 2"	D	Plain	High Nickel	—	19YX29	—
	2"	75 lb	2 5/8"	1 3/16" x 2"	D	Precision Ball	Polished Brass	—	3A777	—
	2 1/2"	75 lb	3 1/8"	1 3/16" x 2"	D	Precision Ball	Copper	—	2G007	—
Soft Polyolefin Tread	2 1/2"	75 lb	3"	1 3/16" x 2"	D	Precision Ball	Copper	—	3A784	—
Hard Polyurethane Tread	1 15/16"	75 lb	2 9/16"	1 1/2" x 1 1/2"	D	Plain	—	—	454N50	—
Hard Polypropylene Tread	2"	80 lb	2 5/8"	1 1/2" x 2 1/8"	D	Plain	Chrome Plated	—	487G79	—
	2"	80 lb	2 5/8"	1 1/2" x 2 1/8"	D	Plain	Antique	—	490W20	—
	2"	80 lb	2 5/8"	1 1/2" x 2 1/8"	D	Plain	Bright Brass	—	490W21	—
Hard Polyolefin Tread	2"	75 lb	2 5/8"	1 3/16" x 2"	D	Plain	Zinc Plated	—	437V29	—
Hard Nylon Tread	1 5/8"	40 lb	2 1/4"	1 1/2" x 1 1/2"	D	Plain	—	Shepherd Caster	60EZ23	60EZ24
	1 15/16"	75 lb	2 9/16"	1 1/2" x 1 1/2"	D	Plain	—	—	—	454N49 *
	2"	75 lb	2 5/8"	1 1/2" x 1 1/2"	D	Plain	—	Shepherd Caster	60EZ25	60EZ26
	2"	75 lb	2 3/8"	1 1/2" x 1 1/2"	D	Plain	—	Shepherd Caster	60EZ33	60EZ34
	2 3/8"	100 lb	3"	1 1/2" x 1 1/2"	D	Plain	—	Shepherd Caster	60EZ27	60EZ28
	2 3/8"	100 lb	2 3/4"	1 1/2" x 1 1/2"	D	Plain	—	Shepherd Caster	60EZ35	60EZ36
	3"	165 lb	3 1/2"	2 5/8" x 3 3/4"	C	Plain	—	Shepherd Caster	60EZ37	60EZ38
	3 7/8"	175 lb	4 5/8"	2 5/8" x 3 3/4"	C	Plain	—	Shepherd Caster	60EZ29	60EZ30
	4 7/8"	180 lb	5 5/8"	2 5/8" x 3 3/4"	C	Plain	—	Shepherd Caster	60EZ31	60EZ32
Firm Vinyl Tread	2"	75 lb	2 1/2"	1 3/16" x 2"	D	Precision Ball	Polished Brass	—	19YX22	—
	2"	75 lb	2 5/8"	1 3/16" x 2"	D	Precision Ball	Black Oxide	—	19YX23	—

*** With side-pedal brake.***

Copper 3A784

Polished Brass 19YX22

Nylon with Side-Pedal Brake 454N49

Plate D

Low-Profile and Easy-Turn Standard Plate Casters

Low-profile casters install onto equipment that needs to stay close to the ground to maximize its stability while rolling. **Easy-turn** casters each have two wheels mounted on one axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters. Light-duty and medium-duty casters have steel frames and are used on carts, business machines, and other equipment that will be moved manually at moderate speeds along smooth, flat surfaces in areas where the casters won't encounter shock loading.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Low-Profile Light- & Medium-Duty								
Firm Polyurethane Tread								
1 3/8"	220 lb	2"	2 3/8" x 2 3/8"	B	Precision Ball	22N062	—	—
3"	450 lb	3 15/16"	3 1/8" x 4 1/8"	A	Precision Ball	33H701	33H703	—
Firm Thermoplastic Rubber Tread								
2"	330 lb	2 7/8"	3 9/16" x 2 9/16"	B	Precision Ball	490V43	—	—
Hard Glass-Filled Nylon Tread								
3"	800 lb	4 1/8"	3 1/8" x 4 1/8"	D	Precision Ball	416P22	1VJD8	—
Hard Nylon Tread								
2 1/2"	550 lb	3 1/2"	3 1/8" x 4"	A	Roller	16D120	—	—
3"	1000 lb	3 15/16"	3 1/8" x 4 1/8"	D	Precision Ball	—	487G75	—
Hard Phenolic Tread								
3"	500 lb	3 7/8"	4" x 4 1/2"	B	Roller	—	—	33H706
Hard Polypropylene Tread								
3"	500 lb	4 1/16"	3 1/8" x 4 1/8"	D	Roller	1VJD5	1VJD4	—
	550 lb	3 15/16"	3 1/4" x 3 1/4"	D	Precision Ball	454Y15	—	—
Low-Profile Easy-Turn Light- & Medium-Duty								
Soft Neoprene Tread								
2"	145 lb	2 3/4"	2 1/2" x 3 5/8"	C	Precision Ball	—	487G80	—
Soft Polyurethane Tread								
2"	175 lb	2 13/16"	2 3/8" x 2 3/8"	A	Plain	—	—	490V39 *
Soft Thermoplastic Rubber Tread								
2"	175 lb	2 13/16"	2 3/8" x 2 3/8"	A	Plain	490V36	—	—
3"	220 lb	4"	2 3/8" x 2 3/8"	A	Plain	490V37	—	—
	220 lb	3 7/8"	2 3/8" x 2 3/8"	A	Plain	—	—	490V38 *
Firm Polyurethane Tread								
2"	175 lb	2 13/16"	2 3/8" x 2 3/8"	A	Plain	490V29	—	490V30 *
	350 lb	2 1/2"	3 3/4" x 3 3/4"	G	Plain	4W778	—	—
3"	220 lb	4"	2 3/8" x 2 3/8"	A	Plain	490V31	—	490V32 *
Firm Thermoplastic Rubber Tread								
3"	220 lb	4 1/16"	2 1/2" x 3 5/8"	D	Precision Ball	487G30	—	487G87 *
Hard Nylon Tread								
1 3/8"	260 lb	2 3/16"	3 3/4" x 3 3/4"	G	Plain	400K29	—	—
2"	175 lb	2 13/16"	2 3/8" x 2 3/8"	A	Plain	490V33	—	—
	350 lb	2 1/2"	3 3/4" x 3 3/4"	G	Plain	4RF58	—	—
2 3/8"	1540 lb	3 5/8"	3 11/32" x 3 15/16"	D	Precision Ball	22N195	—	—
3"	220 lb	4"	2 3/8" x 2 3/8"	A	Plain	490V34	—	490V35 *
	1320 lb	4 5/16"	3 11/32" x 3 15/16"	D	Precision Ball	22N196	—	—
Hard Rubber Tread								
2"	200 lb	2 15/16"	3 1/8" x 4 1/8"	A	Plain	26Y506	—	33H781
	210 lb	2 3/4"	2 9/16" x 3 5/8"	D	Plain	487G29	—	—
2 1/2"	300 lb	3 3/8"	3 1/8" x 4 1/8"	A	Delrin	26Y508	—	—
	300 lb	3 3/8"	3 1/8" x 4 1/8"	A	Plain	—	26Y509	—
3"	350 lb	3 7/8"	3 1/8" x 4 1/8"	A	Plain	26Y510	—	—
Extra-Hard Steel Tread								
2"	590 lb	2 1/2"	3 3/4"	G	Plain	400K26	—	—

*** With total lock.***

Swivel 16D120

Rigid Caster 1VJD4

Swivel w/Brake 33H781

Plate A

Plate B

Plate D

Plate G

For information on selecting casters, see page 1191.

Swivel Caster w/ Total Lock 416P20

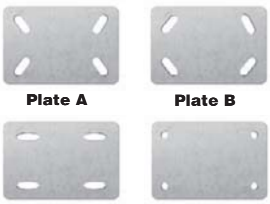


Plate A Plate B Plate C Plate D

Debris-Resistant Standard Plate Casters

Casters have thread guards that stop debris from getting into the casters' axles and damaging or contaminating them, extending the casters' life when used in dusty or dirty environments. Mount onto carts, dollies, tables, storage racks, and other equipment that will be moved manually at moderate speeds. Suitable for transporting loads along smooth, flat surfaces in areas where they won't encounter shock loading, such as laundry rooms, textile factories, offices, retail stores, schools, and government buildings. **Light-duty** casters are also known as institutional casters. **Medium-duty** casters can typically bear more weight and withstand more industrial conditions than light-duty casters.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size**	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Debris-Resistant Light-Duty								
Soft Phenolic Tread								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	Roller	**4HXN3**	—	**4HXN4** *
Soft Rubber Tread								
3"	195 lb	3 ¾"	2 ¾" x 3 ¾"	D	Plain	**5X728**	—	—
3 ½"	350 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**49C247**	—	**49C250** *
3 15⁄16"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	Precision Ball	—	—	**491A21** *
4"	165 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	Plain	—	—	**5UX76**
5"	330 lb	5 ⅝"	2 ¾" x 3 ¾"	D	Plain	**5X730**	—	—
6"	280 lb	7 21⁄64"	3 ⅛" x 4 ⅛"	A	Plain	**33J068**	—	—
Soft Thermoplastic Rubber Tread								
3"	150 lb	3 ¾"	2 ¾" x 3 ¾"	D	Delrin	**1G190**	—	—
4"	175 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	Delrin	**1G191**	—	—
	260 lb	5 3⁄16"	3 ⅛" x 4"	A	Precision Ball	**437V21**	—	**416P20** *
	300 lb	5 ⅝"	4" x 4 ½"	B	Roller	—	—	**4HXG1** *
5"	195 lb	5 ⅝"	2 ¾" x 3 ¾"	D	Delrin	**1G192**	**1G195**	—
	250 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**4DE68**	**4DE69**	—
	280 lb	6 ¼"	2 ½" x 3 ¾"	C	Precision Ball	**416P30**	**2G063**	—
	305 lb	6 3⁄16"	3 ⅛" x 4"	A	Precision Ball	**400K71**	**437V22**	**416P21** *
	400 lb	6 ⅛"	2 ⅜" x 3 ⅝"	C	Precision Ball	**426A84**	**406P65**	**400K28** *
6"	325 lb	7 ⅜"	2 ½" x 3 ¾"	C	Precision Ball	**400K30**	—	—
	325 lb	7 5⁄16"	2 ½" x 3 ¾"	C	Precision Ball	—	**406P66**	**406P67**
Firm Polyurethane Tread								
3"	175 lb	3 ¾"	2 ¾" x 3 ¾"	D	Delrin	**1G196**	**1G199**	—
	250 lb	4 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	—	**2G047**	**2G029** *
	275 lb	4 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	**435X77**	—	**435X79** *
3 ½"	275 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**435X78**	**435X82**	—
4"	195 lb	4 11⁄16"	2 ¾" x 3 ¾"	D	Delrin	**1G197**	**1G200**	—
	300 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**2G043**	—	**2G031** *
	300 lb	5 ⅛"	2 ¾" x 3 ¾"	C	Precision Ball	—	**2G049**	—
5"	220 lb	5 ⅝"	2 ¾" x 3 ¾"	D	Delrin	**1G198**	—	—
	315 lb	6 13⁄64"	2 ½" x 3 ⅝"	C	Precision Ball	**29XW86**	—	—
	315 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**2G045**	**2G051**	**2G033** *
6"	300 lb	7 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	—	**3ENW9**	—
	300 lb	7 21⁄64"	2 ½" x 3 ⅝"	C	Precision Ball	**3ENX9**	—	**3ENY1**
Firm Rubber Tread								
4"	250 lb	5 ⅛"	2 ½" x 3 ⅝"	C	Precision Ball	**454Y10**	**4DE66**	—
6"	300 lb	7 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	**3ENX7**	**3ENW8**	**440A77**
Firm Thermoplastic Rubber Tread								
5"	250 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**2LU81**	**2LU79**	—
	300 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**40N479**	**40N481**	**40N480**
6"	325 lb	7 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	**40N482**	**40N484**	**40N486**
Hard Phenolic Tread								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	Roller	—	**4HXN6**	—
Hard Polyolefin Tread								
3"	175 lb	3 ¾"	2 ¾" x 3 ¾"	D	Delrin	—	—	**5UX73**
4"	600 lb	5 ⅝"	4" x 4 ½"	B	Roller	**4HXK9**	**4HXL3**	**435Y01** *
	600 lb	5 ⅝"	4" x 4 ½"	B	Roller	—	—	**4HXL1** *
Hard Rubber Tread								
3"	210 lb	3 ¾"	2 ¾" x 3 ¾"	C	Delrin	**2G301**	**2G303**	—
3 ½"	350 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	—	**49C249**	—
Debris-Resistant Medium-Duty								
Firm Polyurethane Tread								
5"	1000 lb	6 ½"	4" x 4 ½"	B	Roller	—	**1ULP4**	—
8"	1400 lb	9 ½"	4" x 4 ½"	B	Roller	**1ULP5**	**1ULP6**	—
Hard Phenolic Tread								
6"	1200 lb	7 ½"	4" x 4 ½"	B	Roller	**1ULP9**	**1ULR1**	—

** With total lock. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

Rigid Caster 5VP30

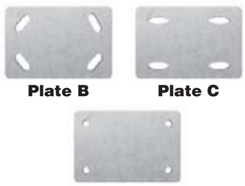


Plate B Plate C Plate D

Corrosion-Resistant Standard Plate Casters

Casters have stainless steel frames that resist rusting and withstand exposure to corrosives like water or cleaning chemicals used in food-service facilities, pharmaceutical plants, laboratories, cleanrooms, hospital waste areas, marine environments, and similar settings. Mount onto carts, dollies, tables, racks, and other equipment that will be moved manually at moderate speeds. Suitable for transporting loads along smooth, flat surfaces in areas where they won't encounter shock loading. **Light-duty** casters are also called institutional casters. **Medium-duty** casters can typically bear more weight and withstand more industrial conditions than light-duty casters.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Corrosion-Resistant Light-Duty								
Soft Rubber Tread								
2"	85 lb	2 13⁄16"	2 ⅜" x 2 ⅜"	B	Plain	**22N122**	**22N126**	**22N123** *
3"	130 lb	3 ⅞"	2 ⅜" x 2 ⅜"	B	Plain	**22N124**	**22N127**	**22N125** *
3 ⅛"	305 lb	4"	3 ⅜" x 3 15⁄16"	D	Roller	**44YU31**	—	**44YU43** *
3 ⅞"	330 lb	4 ⅞"	3 ⅜" x 3 15⁄16"	D	Roller	**44YU46**	**44YU58**	**44YU49** *
Soft Thermoplastic Rubber Tread								
2"	110 lb	2 13⁄16"	2 ⅜" x 2 ⅜"	B	Plain	**22N116**	**22N120**	**22N117** *
3 ⅞"	240 lb	5 ⅜"	2 ⅝" x 3 9⁄16"	B	Plain	**44YU77**	—	**44YU40** *
Hard Polyurethane Tread								
4"	275 lb	5 ⅛"	2 ½" x 3 ⅝"	C	Delrin	**23J808**	**23J809**	—
5"	300 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Delrin	**23J810**	**23J811**	—
Corrosion- & Heat-Resistant Light-Duty								
Hard Nylon Tread								
3 ⅞"	330 lb	4 ⅞"	3 15⁄16" x 3 15⁄16"	D	Plain	**22N140**	—	**22N142** *
Hard Phenolic Tread								
4"	220 lb	5 3⁄16"	2 ½" x 3 ⅝"	C	Plain	**454Y20**	—	—
Corrosion- & Debris-Resistant Light-Duty								
Firm Rubber Tread								
5"	325 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**487H28**	—	**455T51**
6"	325 lb	7 ¼"	2 ½" x 3 ⅝"	C	Precision Ball	**455T53**	—	**455T54**
Firm Thermoplastic Rubber Tread								
4"	300 lb	5 ⅛"	2 ½" x 3 ⅝"	C	Precision Ball	**33H722**	**33H726**	**40N489**
5"	325 lb	6 3⁄16"	2 ½" x 3 ⅝"	C	Precision Ball	**33H723**	**33H727**	—
Corrosion-Resistant Medium-Duty								
Firm Thermoplastic Rubber Tread								
4"	300 lb	5 ⅝"	4" x 4 ½"	B	Delrin	**2LY18**	**2LY16**	—
6"	500 lb	7 ½"	4" x 4 ½"	B	Delrin	**2LY26**	**2LY24**	—
Hard Glass-Filled Nylon Tread								
4"	800 lb	5 ⅝"	4" x 4 ½"	B	Roller	**5VP31**	**5VP30**	—
5"	900 lb	6 ½"	4" x 4 ½"	B	Roller	**5VP33**	**5VP32**	—
6"	900 lb	7 ½"	4" x 4 ½"	B	Roller	**5VP35**	**5VP34**	—
Hard Nylon Tread								
4"	880 lb	5 ⅝"	4" x 4 ½"	B	Precision Ball	**454M92**	**454M93**	**454N11** *
4 ⅞"	1650 lb	6 11⁄16"	4 5⁄16" x 5 ½"	C	Precision Ball	—	—	**22N247** *
Hard Polyurethane Tread								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	Precision Ball	**454M90**	**454M91**	**454N10** *
5"	750 lb	6 ½"	4" x 4 ½"	B	Delrin	**3G103**	**3G110**	—
	750 lb	6 ½"	4" x 4 ½"	B	Delrin	**3G111**	**23J823**	—
6"	880 lb	7 ½"	4" x 4 ½"	B	Precision Ball	**454M94**	**454M95**	—
	900 lb	7 ½"	4" x 4 ½"	B	Precision Ball	—	—	**454M88** *
	900 lb	7 ½"	4" x 4 ½"	B	Delrin	**3G105**	**3G104**	—

** With total lock.*

Plate C

22N149

Heat-Resistant Standard Plate Casters

Casters have hard nylon wheels and can withstand continuous exposure to dry heat up to 480°F. Used in areas such as bakeries, laboratories, light manufacturing facilities, pharmaceutical plants, and electronics parts testing sites. Casters have zinc-plated steel frames and mount onto racks and other equipment that will be moved manually at moderate speeds. These swivel casters can rotate up to 360°, allowing equipment to change directions while rolling.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Item No.
3 ⅞"	330 lb	4 ⅞"	3 ⅜" x 3 15⁄16"	C	Plain	**22N137**
7 ⅞"	770 lb	9 ¼"	4 5⁄16" x 5 ½"	C	Plain	**22N149**

For information on selecting casters, see page 1191.

Rigid Caster
1VJA1

Swivel Caster
w/ Four-Position
Swivel Lock
490W06

Swivel Caster
1NWJ6

Plate A

Plate B

Plate C

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Monoprene Tread								
Precision Ball Bearing								
4"	350 lb	10 ⅛"	4" x 4 ½"	B	Colson	**20PM03**	**20PM05**	**20PM04**
Radial Ball Bearing								
8"	350 lb	10 ⅛"	4" x 4 ½"	B	Colson	**20PL93**	—	—
10"	440 lb	13"	4" x 4 ½"	B	Colson	**25VT58**	—	—
Soft Polyurethane Tread								
Precision Ball Bearing								
3 15⁄16"	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	—	—	**21HJ80** *
3 ⅞"	660 lb	5 ⅛"	3 ⅜" x 3 15⁄16"	D	—	**22N164**	**489C57**	**489C56** *
	770 lb	6 ⅛"	3 ⅜" x 3 15⁄16"	D	—	**22N167**	—	**22N169** *
4 ⅞"	770 lb	6 ⅛"	3 ⅜" x 3 15⁄16"	D	—	—	**22N168**	—
Soft Rubber Tread								
Precision Ball Bearing								
3 15⁄16"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	**21HJ58**	—	—
4"	400 lb	5 ⅛"	3 ¼" x 4"	D	—	—	**21HJ59**	—
	440 lb	5 ⅛"	4" x 4 ½"	B	—	**454Y05**	**487G20**	—
8"	600 lb	9 ½"	4 ½" x 6 ¼"	A	—	—	—	**454N05** ‡
	660 lb	9 ¼"	4" x 4 ½"	B	—	**454Y07**	**454Y08**	—
Roller Bearing								
4"	350 lb	5 ⅝"	4" x 4 ½"	B	—	**1NWJ2**	—	—
5"	400 lb	6 ½"	4" x 4 ½"	B	—	**1NWJ4**	**1NWJ3**	—
6"	410 lb	7 ½"	4" x 4 ½"	B	—	**1NWJ6**	**1NWJ5**	—
	500 lb	7 ¼"	4" x 4 ½"	B	Albion	**30XK14**	—	—
	550 lb	7 ½"	4 ½" x 6 ¼"	A	—	**454N01**	—	—
	600 lb	7 ¼"	4" x 4 ½"	B	Albion	**32LG48**	**32LG47**	—
8"	600 lb	9 ½"	5" x 5 ½"	D	—	—	**489A29**	—
	600 lb	9 ½"	4" x 4 ½"	B	—	**1NWJ8**	**426A76**	—
	675 lb	7 ¼"	4" x 4 ½"	B	Albion	**32LG49**	—	—
Soft Thermoplastic Rubber Tread								
Precision Ball Bearing								
8"	675 lb	9 ½"	4" x 4 ½"	B	—	**1NWH3**	**1NWH2**	—
Roller Bearing								
4"	350 lb	5 ⅝"	4" x 4 ½"	B	—	**1ULH9**	—	—
5"	400 lb	6 ½"	4" x 4 ½"	B	—	**1ULJ2**	**1ULJ4**	—
6"	450 lb	7 ½"	4" x 4 ½"	B	—	**435X90**	**1NVD8**	**435X91**
8"	600 lb	9 ½"	4" x 4 ½"	B	—	**400K49**	**435X92**	—
Firm Polyurethane Tread								
Plain Bearing								
5"	1050 lb	6 ½"	4" x 4 ½"	B	—	**29XU51**	—	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.*

colson ALBION® GREENLEE A Textron Company

Medium-Duty Standard Plate Casters

Mount onto carts, dollies, platform trucks, tool boxes, storage racks, and other industrial equipment that will be moved manually at moderate speeds. Casters have zinc-plated steel frames. Suitable for transporting moderately heavy to heavy loads along smooth, flat surfaces in industrial settings where the casters won't encounter shock loading, such as shops, docks, warehouses, waste-disposal areas, and manufacturing plants.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Precision Ball Bearing								
3 15⁄16"	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	**21HJ83**	—	**21HJ85** *
3 ⅞"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	—	**21HJ84**	—
3 15⁄16"	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	**21HJ67**	—	**21HJ71** *
3 ⅞"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	—	**21HJ68**	—
4 15⁄16"	400 lb	5 ⅞"	2 ½" x 3 ⅝"	D	—	**21HJ89**	—	**21HJ74** *
	400 lb	5 ⅞"	2 ½" x 3 ⅝"	D	—	**21HJ72**	—	**21HJ90** *
4 ⅞"	400 lb	6 ⅛"	2 ½" x 3 ⅝"	C	—	—	**21HJ73**	—
4"	700 lb	5 ⅝"	4 ½" x 6 ¼"	A	—	—	—	**455U01** ‡
5"	400 lb	6 1⁄10"	2 ½" x 3 ⅝"	C	—	—	**19YP94**	—
6"	1250 lb	7 ½"	4" x 4 ½"	B	—	—	**5VG64**	—
8"	1250 lb	9 ½"	4" x 4 ½"	B	—	**454N28**	—	—
Roller Bearing								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	—	**1NUW7**	**1NUW9**	**400K42**
	700 lb	5 ⅝"	4" x 4 ½"	B	—	**1NWK1**	**1NWJ9**	**487H29** †
	750 lb	5 ⅝"	4" x 4 ½"	B	—	—	**1NUY3**	**1NUY2**
	750 lb	7 ½"	4" x 4 ½"	B	—	**1NUY1**	—	—
5"	700 lb	6 ½"	4 ½" x 6 ¼"	A	—	—	**455T74**	—
	750 lb	6 ½"	4" x 4 ½"	B	—	**400K50**	**400K52**	**400K43**
	1000 lb	6 ½"	4" x 4 ½"	B	—	**1ULP1**	—	—
	1050 lb	6 ½"	4 ½" x 6 ¼"	A	—	**400K27**	—	—
	1050 lb	6 ½"	5" x 5 ½"	D	—	**1NVL7**	**1NVL9**	**1NVL8**
	1100 lb	6 ½"	5" x 5 ½"	D	—	**489A32**	**489A34**	**489A33** *
	1500 lb	6 ½"	4 ½" x 6 ¼"	A	—	—	**1NVR8**	—
6"	800 lb	7 ½"	4" x 4 ½"	B	—	**400K53**	**400K55**	**400K54**
	900 lb	7 ½"	4" x 4 ½"	B	—	**1NUX4**	—	**1NUX5**
	900 lb	7 ½"	4" x 4 ½"	B	Greenlee	**35MM29**	**35MM28**	—
	1200 lb	7 ½"	4" x 4 ½"	B	—	**1ULP2**	**1ULP3**	—
	1200 lb	7 ½"	5" x 5 ½"	D	—	**1NVN1**	**1NVN3**	**1NVN2**
	1250 lb	7 ½"	4" x 4 ½"	B	—	**454Y22**	—	**49H599**
	1250 lb	7 ½"	5" x 5 ½"	D	—	—	**489A37**	**489A36** *
	1750 lb	7 ½"	4 ½" x 6 ¼"	A	—	**1NVR9**	**1NVT1**	—
	1750 lb	7 ½"	4 ½" x 6 ¼"	A	—	**1NVU7**	**1NVU8**	—
8"	900 lb	9 ½"	4" x 4 ½"	B	—	**400K56**	**1ULK8**	—
	900 lb	9 ½"	4" x 4 ½"	B	Greenlee	—	**35MM32**	**35MM24**
	1200 lb	9 ½"	4 ½" x 6 ¼"	A	—	**426A74**	**426A75**	—
	1200 lb	9 ½"	5" x 5 ½"	D	—	**1NVN4**	**1NVN6**	**1NVN5**
	1250 lb	9 ½"	5" x 5 ½"	D	—	—	**489A40**	**490W05**
10"	1750 lb	11 ½"	4 ½" x 6 ¼"	A	—	**1NVX2**	**1NVX3**	—
Firm Rubber Tread								
Precision Ball Bearing								
4"	400 lb	5 ⅝"	4" x 4 ½"	B	—	**29XU58**	—	—
6"	500 lb	7 ½"	4" x 4 ½"	B	—	—	—	**29XU45**
8"	600 lb	9 ½"	4" x 4 ½"	B	—	—	**29XV52**	—
Firm Thermoplastic Rubber Tread								
4"	300 lb	5 ⅝"	4" x 4 ½"	B	—	—	**4DE89**	—
6"	500 lb	7 ¼"	4" x 4 ½"	B	—	**1NWH1**	—	—
	500 lb	7 ½"	4" x 4 ½"	B	—	—	**490V75**	—
8"	600 lb	9 ½"	4" x 4 ½"	B	—	**2LY34**	**4DU12**	—
Roller Bearing								
4"	300 lb	5 ⅝"	4" x 4 ½"	B	—	**1NWR1**	**5VP82**	—
5"	350 lb	6 ½"	4" x 4 ½"	B	—	**5VP85**	**1VJC5**	**490V99** *
6"	500 lb	7 ¼"	4" x 4 ½"	B	—	**1NWR5**	**5VP86**	**49H614**
	500 lb	7 ½"	4" x 4 ½"	B	—	—	**487H27**	**490W01** †
8"	600 lb	9 ½"	4" x 4 ½"	B	—	**5VP89**	**5VP88**	**483N54** †
Hard Glass Filled Nylon Tread								
Roller Bearing								
4"	800 lb	5 ⅝"	4" x 4 ½"	B	—	**1NWN3**	**1NWN2**	—
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	**1NWN5**	—	—
6"	1200 lb	7 ¼"	4" x 4 ½"	B	—	**1NWN7**	**1NWN6**	—
8"	1250 lb	9 ½"	4" x 4 ½"	B	—	**1NWN9**	—	—
Hard Nylon Tread								
Plain Bearing								
3 ½"	330 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	—	**21HJ94**	**21HJ95**	**21HJ96** *
3 15⁄16"	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	**21HK01**	—	**21HK03** *
3 ⅞"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	—	**21HK02**	—
4 15⁄16"	400 lb	5 ⅞"	2 ½" x 3 ⅝"	D	—	**21HK10**	—	**21HK12** *
4"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	**454Y18**	—	—
7 ⅞"	770 lb	9 ¼"	3 ⅜" x 3 15⁄16"	C	—	—	**22N150**	—
Precision Ball Bearing								
3 ½"	330 lb	4 11⁄16"	2 ½" x 3 ⅝"	C	—	**21HJ97**	—	**21HJ99** *
3 15⁄16"	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	**21HK07**	—	**21HK21** *
3 ⅞"	400 lb	5 ⅛"	2 ½" x 3 ⅝"	C	—	—	—	**21HK09** *
	770 lb	3 ⅝"	3 ⅜" x 3 15⁄16"	D	—	**22N185**	—	—
4 15⁄16"	400 lb	5 ⅞"	2 ½" x 3 ⅝"	D	—	**21HK16**	—	**21HK18** *
	400 lb	4 15⁄16"	3 ⅛" x 3 15⁄16"	D	—	**49C254**	—	—
	400 lb	4 15⁄16"	2 ½" x 3 ⅝"	D	—	—	—	**21HK23** *
Roller Bearing								
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	—	**1NWN4**	—
Hard Phenolic Tread								
Ball								
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	**55KC24**	**55KC20**	**55KC13**
	1000 lb	6 ½"	4 ½" x 6 ¼"	A	—	**55KC10**	**55KC11**	—
6"	1200 lb	7 ½"	5" x 5 ½"	D	—	**55KC04**	**55KC06**	**55KC05** *
	1200 lb	7 ½"	4" x 4 ½"	B	—	**55KC14**	**55KC21**	**55KC15**

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CONTINUED

Medium-Duty Standard Plate Casters

colson ALBION® GREENLEE

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
8"	1250 lb	9 ½"	5" x 5 ½"	D	—	55KC07	55KC09	55KC08 *
	1250 lb	9 ½"	4 ½" x 6 ¼"	A	—	55KC12	—	—
	1250 lb	9 ½"	4" x 4 ½"	B	—	55KC22	55KC23	—
	2500 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	55KC27	55KC28	—
10"	2900 lb	11 ½"	4 ½" x 6 ¼"	A	—	55KC29	55KC30	—
Roller Bearing								
4"	450 lb	5 ⅛"	3 3⁄16" x 6 ⅛"	C	—	—	1UKW5	—
	800 lb	5 ⅝"	4" x 4 ½"	B	—	1NUZ6	435X70	1NUZ7
	800 lb	5 ⅝"	4 ½" x 6 ¼"	A	—	—	455T92	455U02 ‡
5"	1000 lb	6 ½"	5" x 5 ½"	D	—	1NVK7	1NVK9	435X71 *
6"	1200 lb	7 ½"	4 ½" x 6 ¼"	A	—	435X73	1NVT7	—
Hard Polyolefin Tread								
Roller Bearing								
5"	750 lb	6 ½"	4" x 4 ½"	B	—	—	435X93	—
	800 lb	6 ½"	4" x 4 ½"	B	—	1ULK9	—	400K57
6"	900 lb	7 ½"	4" x 4 ½"	B	—	1ULL3	1ULL5	426A80
8"	900 lb	9 ½"	5" x 5 ½"	D	—	—	435X72	—
	900 lb	9 ½"	4" x 4 ½"	B	—	1ULL6	1ULL7	—
	1000 lb	9 ½"	5" x 5 ½"	D	—	1NVP4	—	1NVP5
Hard Polypropylene Tread								
Precision Ball Bearing								
6"	300 lb	7 ¼"	3 ¾" x 4 ⅜"	B	—	—	—	33H687
Roller Bearing								
4"	450 lb	5 ⅝"	4" x 4 ½"	B	—	25VT36	25VT37	—
5"	550 lb	6 ½"	4" x 4 ½"	B	—	—	25VT39	—
	650 lb	6 ½"	4" x 4 ½"	B	—	25VT38	—	490V88 †
6"	650 lb	7 ¼"	4" x 4 ½"	B	—	25VT40	25VT41	—
8"	850 lb	9 ½"	4" x 4 ½"	B	—	25VT42	25VT43	—
Hard Polyurethane Tread								
Delrin Bearing								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	—	455U50	455U51	—
Precision Ball Bearing								
4"	1000 lb	5 ⅝"	4" x 4 ½"	B	—	1NWP2	1NWP1	—
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	1NWP4	1NWP3	—
6"	1000 lb	7 ¼"	4" x 4 ½"	B	—	1NWP6	1NWP5	—
8"	1000 lb	9 ½"	4" x 4 ½"	B	—	489C19	489C18	—
	1200 lb	9 ½"	4" x 4 ½"	B	—	—	1NWP7	—
Roller Bearing								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	—	406U27	1VJB4	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake.*

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
5"	750 lb	6 ½"	4" x 4 ½"	B	—	—	1VJB6	490W06 †
6"	900 lb	7 ½"	4" x 4 ½"	B	—	—	1VJB8	—
	1230 lb	7 ¼"	4" x 4 ½"	B	Albion	32LG39	60RN17	60RN18
8"	1000 lb	10 ⅛"	4" x 4 ½"	B	—	—	54JE10	—
	1000 lb	9 ½"	4" x 4 ½"	B	—	29XU50	—	—
Hard Rubber Tread								
Precision Ball Bearing								
10"	350 lb	12 ½"	4" x 4 ½"	B	—	—	25VT59	—
Extra Hard Ductile Iron Tread								
Roller Bearing								
5"	1250 lb	6 ½"	4" x 4 ½"	B	—	—	1VJA1	—
6"	1250 lb	7 ½"	4" x 4 ½"	B	—	—	1VJA3	—
8"	1250 lb	10 ⅛"	4" x 4 ½"	B	—	—	1VJA5	—
Extra Hard Iron Tread								
Precision Ball Bearing								
8"	1250 lb	9 ½"	4 ½" x 6 ¼"	A	—	—	—	455U04 ‡
Roller Bearing								
3 ¼"	700 lb	4 ¼"	4" x 4 ½"	B	—	1NWL2	1NWL1	—
4"	450 lb	5 ⅛"	4" x 5"	D	—	1UKW9	—	1UKX5
	700 lb	5 ⅝"	4" x 4 ½"	B	—	1NWH9	1NWH8	—
	1000 lb	5 ⅝"	4" x 4 ½"	B	—	33H771	33H770	33H671
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	1NWL4	1NWL3	33H672
	1000 lb	6 ½"	4 ½" x 6 ¼"	A	—	—	490V67	—
	1000 lb	6 ½"	5" x 5 ½"	D	—	—	488U02	488T99
	1200 lb	6 ½"	5" x 5 ½"	D	—	1NVH4	1NVH6	1NVP8
6"	1200 lb	7 ½"	5" x 5 ½"	D	—	1NVR1	1NVR3	1NVR2
	1200 lb	7 ¼"	4" x 4 ½"	B	—	1NWL6	1NWL5	—
	1750 lb	7 ½"	4 ½" x 6 ¼"	A	—	1NVU2	1NVU3	—
8"	1200 lb	9 ½"	5" x 5 ½"	D	—	1NVR4	1NVR6	1NVR5
	1250 lb	9 ½"	5" x 5 ½"	D	—	—	483N45	—
	1250 lb	9 ½"	4" x 4 ½"	B	—	1NWL8	1NWL7	—
	1250 lb	9 ½"	4 ½" x 6 ¼"	A	—	—	455U06	—
	1750 lb	9 ½"	4 ½" x 6 ¼"	A	—	1NVU4	1NVU5	—
Extra Hard Steel Tread								
4"	1000 lb	5 ⅝"	4" x 4 ½"	B	—	—	1NVC2	1NVC1
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	1NVC3	1NVC5	1NVC4
6"	1200 lb	7 ½"	4" x 4 ½"	B	—	1NVC6	1NVC8	1NVC7
8"	1200 lb	9 ½"	4" x 4 ½"	B	—	1NVC9	1NVD2	1NVD1

Heavy-Duty Standard Plate Casters

Casters have zinc-plated welded steel frames and a stronger kingpin than light-duty or medium-duty standard plate casters. Withstand heavy loads and frequent use and are mounted onto racks, utility trucks, production jigs, fixtures, and other heavy equipment used in industrial settings where the casters will be rolling along irregular or rough surfaces and may encounter shock loading.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size**	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Rubber Tread							
Precision Ball Bearing							
4 ⅞"	550 lb	6 ½"	4" x 4 ½"	B	489D33	—	—
	705 lb	6 11⁄16"	4 5⁄16" x 5 ½"	C	22N216	22N217	22N218 *
5"	550 lb	6 ½"	4" x 4 ½"	B	—	489D30	—
6"	880 lb	7 ¾"	4 ½" x 6 ¼"	A	—	489D31	—
9 13⁄16"	1870 lb	11 ⅝"	4 5⁄16" x 5 ½"	C	489A74	489A75	489A77 *
Firm Polyurethane Tread							
Precision Ball Bearing							
3 ⅞"	770 lb	5 ½"	4" x 4 ½"	B	489C64	—	—
	880 lb	5 ½"	3 ⅜" x 3 15⁄16"	D	489D06	—	—
	880 lb	5 ½"	4 5⁄16" x 5 ½"	C	—	490V22	—
4"	770 lb	5 ½"	4" x 4 ½"	B	—	489C65	—
4 ⅞"	770 lb	6 ½"	4" x 4 ½"	B	489C66	—	—
5"	770 lb	6 ½"	4" x 4 ½"	B	—	489C67	—
5 ⅞"	1650 lb	7 ¾"	4 5⁄16" x 5 ½"	C	—	490V23	—
	1650 lb	7 ⅞"	4 5⁄16" x 5 ½"	C	489A69	—	—
7 ⅞"	1750 lb	9 ⅝"	4 ½" x 6 ¼"	A	489C68	—	—
	2200 lb	9 ⅝"	4 5⁄16" x 5 ½"	C	489A70	489A71	489A76 *
	2425 lb	9 ⅝"	4 5⁄16" x 5 ½"	C	489D12	489D15	489D14 *
8"	2000 lb	9 ¼"	4 ½" x 6 ¼"	A	—	—	490W24 †
9 13⁄16"	2425 lb	11 ⅝"	4 5⁄16" x 5 ½"	C	—	—	489D17 *
	2645 lb	11 ⅝"	4 5⁄16" x 5 ½"	C	—	489A73	—
Hard Nylon Tread							
Precision Ball Bearing							
3"	660 lb	4 ⅝"	3 ⅜" x 3 15⁄16"	D	22N191	22N192	22N193 *
3 ⅛"	1540 lb	4 11⁄16"	3 ⅜" x 3 15⁄16"	D	22N063	22N064	22N065 *
3 ⅞"	1540 lb	5 ½"	3 ⅜" x 3 15⁄16"	D	22N066	22N067	22N068 *
Extra-Hard Iron Tread							
Precision Ball Bearing							
3 ⅞"	880 lb	5 ½"	3 ⅜" x 3 15⁄16"	D	489D07	—	—
	880 lb	5 ½"	4 5⁄16" x 5 ½"	C	—	490V18	—
4 ⅞"	990 lb	6 ½"	4 5⁄16" x 5 ½"	C	—	490V19	—
	1650 lb	6 11⁄16"	4 5⁄16" x 5 ½"	C	489D08	—	—
5 ⅞"	1980 lb	7 ¾"	4 ⅜" x 5 ½"	C	489D10	490V20	—
	1980 lb	7 ⅞"	4 5⁄16" x 5 ½"	C	489D56	—	—
7 ⅞"	2425 lb	9 ⅝"	4 5⁄16" x 5 ½"	C	489D13	489D16	—
9 13⁄16"	1980 lb	11 ⅝"	4 ⅜" x 5 ½"	C	490V42	490V21	—
Roller Bearing							
8"	1250 lb	9 ⅝"	4 ½" x 6 ¼"	A	455T95	455T93	455T96 *
	1250 lb	9 ⅝"	4 ½" x 6 ¼"	A	455T99	—	—

** With total lock. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions. † With four-position swivel lock.*

Rigid Caster
455T93

Swivel Caster w/ Four-Position Swivel Lock
490W24

Swivel Caster
22N216

Plate A

Plate B

Plate C

Plate D

Rigid Caster
1VHT9

Swivel Caster
5VH19

Swivel Caster w/ Four-Position Swivel Lock and Brake
5VH92

Plate A

Plate B

Plate C

Plate D

HAMILTON

Extra Heavy-Duty Standard Plate Casters

Casters have forged steel frames and forged or welded steel kingpins and can bear heavy loads. Can tolerate more frequent use and withstand more shock and impact from rolling over rough or uneven ground than light-duty, medium-duty, and heavy-duty standard plate casters. Install onto the bottom of dumpsters, trailer frames, die carts, and other heavy equipment used in industrial areas such as manufacturing plants, construction sites, and assembly plants.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Polyurethane Tread								
Precision Ball Bearing								
4"	600 lb	5 ⅝"	4" x 5"	B	Hamilton	**49H502**	—	—
	700 lb	5 ⅝"	4" x 5"	B	Hamilton	**49H521**	—	—
	700 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**49H479**	—	—
6"	940 lb	7 ½"	4" x 5"	B	Hamilton	**4DB64**	**4DB68**	**4DB66** ‡
	960 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ6**	—	—
	1920 lb	7 ¾"	6 ¼" x 6 ½"	A	Hamilton	—	**1VHR8**	—
	2450 lb	7 ¼"	5" x 7"	A	Hamilton	—	**45AN43**	—
8"	1200 lb	9 ½"	4" x 5"	B	Hamilton	**4DB65**	**4DB69**	**4DB67** ‡
	1200 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ9**	**6AZN0**	**6AZL1** ‡
	2000 lb	9 ½"	4" x 5"	B	Hamilton	**49H523**	—	—
	2000 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**1VHT2**	—	**45RH59** ‡
Soft Rubber Tread								
Precision Ball Bearing								
6"	540 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	**1VHT8**	**1VHT9**	**1VHV1** ‡
8"	670 lb	10 ¼"	4 ½" x 6 ½"	A	Hamilton	**1VHU3**	**1VHU4**	**1VHV3** ‡
10"	790 lb	11 ½"	4 ½" x 6 ½"	A	Hamilton	**1VHU7**	**1VHU8**	**1VHV5** ‡
Roller Bearing								
8"	1000 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**1VHT4**	**1VHT5**	**45RH62** ‡
10"	790 lb	11 ½"	4 ½" x 6 ½"	A	Hamilton	**5VH22**	—	—
Firm Polyurethane Tread								
Precision Ball Bearing								
4"	750 lb	5 ⅝"	4" x 5"	B	Hamilton	**5VH87**	**5VG54**	**45RH73** ‡
	750 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**6AZJ1**	—	**6AZK0** ‡
	900 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**49H470**	**49H486**	—
	1500 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**1VHP8**	—	**45RH56** ‡
6"	900 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	—	—	**45RH75** ‡
	1200 lb	7 ½"	4" x 5"	B	Hamilton	**5VJ08**	—	—
	1200 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ3**	**6AZL4**	**6AZK3** ‡
	1600 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	**1VHT6**	**1VHT7**	**1VHU9** ‡
	2200 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	**55HA50**	**55HA46**	**55HA22** ‡
	2200 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	**5VH01**	**5VF93**	—
	2400 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**1VHR5**	—	—
	2400 lb	7 ¾"	6 ¼" x 6 ½"	A	Hamilton	**1VHR5**	—	—
7 ⅞"	3525 lb	10"	5 ½" x 6 ⅞"	D	—	**489D21**	—	**489D22** *
8"	1400 lb	9 ½"	4" x 5"	B	Hamilton	**49H505**	—	**49H514** ‡
	1500 lb	9 ½"	4" x 5"	B	Hamilton	**5VJ20**	**5VG70**	**45RH76** ‡
	1500 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ7**	**6AZL8**	**6AZK8** ‡
	2000 lb	10 ¼"	4 ½" x 6 ½"	A	Hamilton	**1VHU1**	**1VHU2**	**1VHV2** ‡
	2500 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VH10**	**5VF98**	**5VH11** ‡
10"	2200 lb	11 ½"	4 ½" x 6 ½"	A	Hamilton	**1VHU5**	**1VHU6**	**1VHV4** ‡
	3000 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VG92**	**5VF89**	**45RH77** ‡
	3600 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	**49H548**	—	—
11 13/16"	3950 lb	14"	5 ½" x 6 ⅞"	D	—	**489D18**	**489D20**	**489D19** *
Roller Bearing								
8"	990 lb	11"	8 ½" x 8 ½"	D	Hamilton	**1VHK5**	**1VHK6**	—
	7000 lb	11"	8 ½" x 8 ½"	D	Hamilton	—	—	**1VHJ7** †
10"	10,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	—	—	**1VHJ9** †
	2200 lb	11 ½"	4 ½" x 6 ½"	A	Hamilton	**5VH19**	—	—
	6000 lb	13"	8 ½" x 8 ½"	D	Hamilton	**1VHK7**	—	**1VHJ8** ‡
Tapered Roller Bearing								
10"	10,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	**1VHK9**	**1VHL1**	**55HA35** ‡

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Hard Nylon Tread								
Precision Ball Bearing								
3 ⅛"	3850 lb	4 ⅞"	4 5/16" x 5 ½"	C	—	**22N099**	**22N108**	—
3 ⅞"	3300 lb	5 11/16"	4 5/16" x 5 ½"	C	—	**22N072**	—	**22N073** *
	4850 lb	6 ¼"	5 ½" x 6 ⅞"	D	—	**22N101**	**22N109**	—
3 15/16"	3850 lb	6 11/16"	4 5/16" x 5 ½"	C	—	—	**22N077**	—
4"	800 lb	5 ⅝"	4" x 5"	B	Hamilton	**49H524**	—	**45RH66** ‡
	975 lb	5 ⅝"	4" x 4 ½"	B	Hamilton	—	**49H531**	—
	2000 lb	5 ⅝"	4" x 5"	B	Hamilton	**49H509**	—	—
	2000 lb	5 ⅝"	4" x 4 ½"	B	Hamilton	—	**49H534**	—
	2000 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**154M41**	**154F83**	**55HA25** ‡
	7200 lb	5 ⅝"	4" x 5"	B	Hamilton	—	—	**49H518** ‡
4 ⅞"	3850 lb	6 11/16"	4 5/16" x 5 ½"	C	—	**22N075**	—	**22N076** *
	7925 lb	8 ⅛"	7 ⅞" x 10 1/16"	D	—	**22N102**	**22N110**	—
4 15/16"	3300 lb	5 11/16"	4 5/16" x 5 ½"	C	—	—	**22N074**	—
	5500 lb	8 ⅛"	5 ½" x 6 ⅞"	D	—	—	**22N080**	—
5 ⅞"	5500 lb	8 ⅛"	5 ½" x 6 ⅞"	D	—	**22N078**	—	**22N079** *
6"	1000 lb	7 ½"	4" x 5"	B	Hamilton	**49H525**	—	**49H519** ‡
	4000 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	**49H549**	**49H564**	**45RH68** ‡
Hard Phenolic Tread								
Roller Bearing								
4"	800 lb	5 ⅝"	4" x 5"	B	Hamilton	**5VH91**	**5VG56**	**5VH92** ‡
	800 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**5VH40**	—	—
6"	1200 lb	5 ⅝"	4 ½" x 6 ½"	B	Hamilton	—	**5VG67**	—
	1200 lb	7 ½"	4" x 5"	B	Hamilton	**5VJ14**	—	**5VJ15** ‡
	1200 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**5VH56**	**5VG34**	**6AZK6** ‡
	2000 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	**5VH07**	**5VF96**	**5VH08** ‡
8"	1400 lb	9 ½"	4" x 5"	B	Hamilton	**5VJ24**	**5VG72**	**5VJ25** ‡
	1400 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**5VH64**	**5VG38**	**6AZL0** ‡
	3000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VH16**	**5VG02**	**5VH17** ‡
10"	2900 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VG98**	**5VF92**	**5VG99** ‡
Hard Polyurethane Tread								
Precision Ball Bearing								
4"	975 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**49H473**	**49H489**	—
	975 lb	5 ⅝"	4" x 5"	B	Hamilton	**49H506**	—	**49H515** ‡
6"	1000 lb	7 ½"	4" x 5"	B	Hamilton	—	**49H532**	—
	1560 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**49H474**	**49H490**	—
	1560 lb	7 ½"	4" x 5"	B	Hamilton	**49H507**	—	—
	3500 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	**49H555**	**49H570**	—
8"	2500 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	—	**45AN50**	—
	4000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	—	**49H571**	—
10"	4000 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	**49H557**	**49H572**	—
Tapered Roller Bearing								
8"	4000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	**49H556**	—	—
Extra-Hard Iron Tread								
Precision Ball Bearing								
4"	1000 lb	5 ⅝"	4" x 5"	B	Hamilton	**5VH89**	**5VG55**	**45RH63** ‡
	1000 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	**6AZJ2**	**6AZL3**	**6AZK1** ‡
6"	1400 lb	7 ½"	4" x 5"	B	Hamilton	**5VJ12**	**5VG66**	**45RH64** ‡
	1400 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ5**	—	**6AZK5** ‡
8"	1500 lb	9 ½"	4" x 5"	B	Hamilton	**5VJ22**	**5VG71**	**45RH65** ‡
	2000 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	**571Z76**	—	**571Z75** ‡
Roller Bearing								
6"	1200 lb	8"	4 ½" x 6 ¼"	A	—	**489D75**	**489C11**	—
	2200 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	**5VH24**	**5VG15**	—
Extra-Hard Steel Tread								
Precision Ball Bearing								
6"	2000 lb	7 ½"	4" x 5"	B	Hamilton	**5VJ10**	—	—
	2000 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	**6AZJ4**	**6AZL5**	**6AZK4** ‡
	4000 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	**5VH03**	**5VF94**	—
8"	4000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VH12**	**5VF99**	**5VH13** ‡
10"	4000 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	**5VG94**	**5VF90**	—
Extra-Hard Thermoplastic Rubber Tread								
Precision Ball Bearing								
8"	1400 lb	9 ¾"	4 ½" x 6 ½"	A	Hamilton	—	**571Z70**	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

For information on selecting casters, see page 1191.

Swivel Caster w/ Four-Position Swivel Lock and Brake 55HA33

Swivel Caster 49H573

Plate A

Plate B

Plate D

HAMILTON

Super-Duty Standard Plate Casters

Casters have forged steel frames and forged steel kingpins and can bear very heavy loads. Can tolerate more frequent use and withstand more shock and impact from rolling over rough or uneven ground than light-duty, medium-duty, heavy-duty, and extra-heavy-duty standard plate casters. Mount onto die carts and other heavy equipment used in shipbuilding sites, aerospace plants, automotive factories, steel mills, heavy equipment manufacturers, and other industrial operations.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.	
Firm Polyurethane Tread									
Precision Ball Bearing									
6"	2100 lb	8"	5 ¼" x 7 ¼"	A	—	**455T64**	**455T65**	—	
8"	2500 lb	10 ½"	5 ¼" x 7 ¼"	A	—	**489D54**	**454N06**	**489D55**	‡
10"	3000 lb	12 ½"	5 ¼" x 7 ¼"	A	—	**454N29**	**454N30**	—	
Tapered Roller Bearing									
8"	3500 lb	11"	8 ½" x 8 ½"	D	Hamilton	**5VH82**	**5VG50**	**5VH83**	†
10"	5000 lb	13"	8 ½" x 8 ½"	D	Hamilton	**5VH73**	**5VG45**	**55HA29**	‡
	5000 lb	13"	8 ½" x 8 ½"	D	Hamilton	—	—	**5VH74**	†
12"	6000 lb	15 ½"	8 ½" x 8 ½"	D	Hamilton	**5VH75**	**5VG46**	**55HA30**	‡
	6000 lb	15 ½"	8 ½" x 8 ½"	D	Hamilton	—	—	**5VH76**	†
Firm Steel Tread									
Tapered Roller Bearing									
8"	3500 lb	11"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA33**	‡
Hard Nylon Tread									
Precision Ball Bearing									
6"	3500 lb	8"	5 ¼" x 7 ¼"	A	—	—	**455T66**	**455T71**	‡
8"	6500 lb	10 ½"	6 ½" x 7 ½"	B	Hamilton	**6AZN4**	—	—	
	7000 lb	10 ½"	6 ½" x 7 ½"	B	Hamilton	—	**6AZP2**	**6AZN8**	‡
	7200 lb	11"	8 ½" x 8 ½"	D	Hamilton	**49H573**	**49H579**	—	
10"	8200 lb	13"	8 ½" x 8 ½"	D	Hamilton	**49H574**	**49H580**	—	
12"	10,000 lb	15 ½"	8 ½" x 8 ½"	D	Hamilton	**49H575**	**49H581**	—	
Hard Phenolic Tread									
Roller Bearing									
6"	2000 lb	8"	5 ¼" x 7 ¼"	A	—	**489D52**	—	**489D53**	‡
10"	2900 lb	12 ½"	5 ¼" x 7 ¼"	A	—	**489D49**	—	**489D50**	‡
Extra-Hard Steel Tread									
Tapered Roller Bearing									
6"	10,000 lb	8 ½"	6 ½" x 7 ½"	B	Hamilton	**6AZN1**	**6AZN9**	**6AZN5**	‡
	12,000 lb	10"	8 ½" x 8 ½"	D	Hamilton	**5VH78**	**5VG47**	**5VH79**	†
	12,000 lb	10"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA31**	‡
8"	10,000 lb	10 ½"	6 ½" x 7 ½"	B	Hamilton	**6AZN3**	**6AZP1**	**6AZN7**	‡
	14,000 lb	11"	8 ½" x 8 ½"	D	Hamilton	**5VH80**	**5VG49**	**5VH81**	†
	14,000 lb	11"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA32**	‡
	17,000 lb	11"	8 ½" x 8 ½"	D	Hamilton	**5VH84**	**5VG51**	**5VH85**	†
	17,000 lb	11"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA34**	‡
10"	16,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	**5VH68**	**5VG42**	**5VH69**	†
	16,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA27**	‡
	18,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	**5VH70**	**5VG43**	**5VH71**	†
	18,000 lb	13"	8 ½" x 8 ½"	D	Hamilton	—	—	**55HA28**	‡

† With four-position swivel lock. ‡ With four-position swivel lock and brake.

With Side-Pedal Brake 449U04

Without Brake 31AR68

Plate A

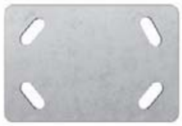

Plate B

GREENLEE
A Textron Company

Standard Plate Caster Kits

Kits contain parts for replacing worn or damaged casters or adding new casters to equipment. Include two swivel plate casters and two rigid plate casters that are used together to allow the equipment to both maneuver around curves and obstacles and maintain a straight course while rolling. Each kit's load rating is the sum of the load ratings for all the casters in the kit. All casters have roller bearings suitable for moving heavy loads. **NSF-listed** standard plate caster kit satisfies the National Sanitation Foundation's (NSF) rigorous testing requirements for casters that are used in environments where they will be exposed to frequent washdowns, oils, or chemicals.

Wheel Dia.	Kit Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Caster Brake Type	Brand	Item No.	
Soft Polyurethane Tread								
6"	4800 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKJ2**	
8"	4800 lb	9 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKJ3**	
Soft Rubber Tread								
6"	2200 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**489D05**	*
6"	4800 lb	7 ½"	4" x 4 ½"	A	Face Contact Brake	—	**4LLN4**	
8"	2400 lb	9 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKH9**	
Firm Polyurethane Tread								
4"	3200 lb	5 ½"	4" x 4 ½"	A	No Brake Included	—	**437V70**	
6"	3600 lb	7 ½"	4" x 4 ½"	B	Side Pedal Brake	Greenlee	**449U04**	
8"	3600 lb	9 ½"	4" x 4 ½"	B	Side Pedal Brake	Greenlee	**449U05**	
8"	5000 lb	9 ½"	4" x 4 ½"	A	Side Pedal Brake	—	**437V68**	
Firm Rubber Tread								
6"	2400 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKH8**	
Hard Nylon Tread								
6"	4800 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKJ4**	
8"	4800 lb	9 ½"	4" x 4 ½"	B	No Brake Included	—	**5PKJ5**	
Hard Phenolic Tread								
4"	800 lb	5 ⅝"	4" x 4 ½"	B	No Brake Included	—	**55KC31**	
5"	1000 lb	6 ½"	4" x 4 ½"	B	No Brake Included	—	**55KC32**	
6"	1200 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**55KC33**	
Hard Polyolefin Tread								
5"	2600 lb	6 ½"	4" x 4 ½"	B	No Brake Included	—	**435X97**	
6"	3000 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**435X98**	
Hard Polypropylene Tread								
4"	1800 lb	5 ⅝"	4" x 4 ½"	B	No Brake Included	—	**31AR68**	
Extra-Hard Steel Tread								
4"	3200 lb	5 ½"	4" x 4 ½"	A	No Brake Included	—	**437V69**	
6"	2700 lb	7 ½"	4" x 4 ½"	B	No Brake Included	—	**4LLN3**	
8"	5000 lb	9 ½"	4" x 4 ½"	A	Side Pedal Brake	—	**437V67**	

** NSF listed.*

For information on selecting casters, see page 1191.

Medium-Duty Swivel 5VF73

Extra-Heavy-Duty Swivel w/Brake 490W17

Super-Duty Swivel 1VHW9

Plate A

Plate B

Plate D

Plate E

RWM colson HAMILTON ALBION®

Kingpinless Plate Casters

Kingpinless casters do not use a kingpin to hold the caster together. Casters distribute weight more evenly, roll more smoothly, tolerate higher speeds, and can better withstand impacts and shock forces than standard plate casters. Suitable for industrial applications where they will be rolling on rough or uneven surfaces. **Light-duty triangular-mount** casters have a triangular mounting plate and can be installed in areas where a caster with a square mounting plate would not fit. **Medium-duty** casters have zinc-plated steel frames and are suitable for pushing and lightly towing carts and trucks in assembly lines, metal fabrication, and waste- and scrap-disposal applications. **Heavy-duty** casters have zinc-plated or powder-coated steel frames and are suitable for pushing and towing carts, trucks, and equipment in heavy manufacturing plants and automotive assembly lines. **Extra heavy-duty** casters have thick steel frames and are suitable for pushing and towing carts, dollies, trailers, heavy machinery, storage tanks, gantry cranes, and other equipment in heavy industrial operations. **Super-duty** casters are suitable for pushing or towing equipment such as gantry cranes, storage tanks, and large machinery in automotive and aerospace manufacturing, shipbuilding, and airport ground support operations. **Easy-swivel extended-lead** casters take less effort to start rolling, provide better tracking, and create less chatter (wobble) than plate casters with standard-length leads. **Easy-turn** casters each have two wheels mounted on a single axle, which reduces the friction between the floor and the wheels and allows them to swivel more easily than single-wheel casters. **Corrosion-resistant** casters have stainless-steel frames that resist rusting when used in areas where they will be exposed to water, cleaning chemicals, and other corrosives.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Light-Duty Triangular-Mount								
Hard Phenolic Tread								
3"	380 lb	4 ½"	5 ½" x 5 ½"	E	—	**5VF67**	—	—
4"	550 lb	5 ½"	5 ½" x 5 ½"	E	—	**5VF68**	—	—
Medium-Duty								
Soft Polyurethane Tread								
8"	1500 lb	9 ½"	4" x 4 ½"	B	—	—	—	**489C39**
Soft Rubber Tread								
4"	400 lb	5 ⅝"	4" x 4 ½"	B	RWM	**29XV13**	**29XV14**	—
5"	440 lb	6 ½"	4" x 4 ½"	A	—	**5VF71**	**5VF61**	—
	500 lb	6 ½"	4" x 4 ½"	B	RWM	**29XV19**	**29XV20**	—
6"	660 lb	7 ½"	4" x 4 ½"	A	—	**5VF73**	**5VF63**	—
8"	880 lb	9 ½"	4" x 4 ½"	A	—	**5VF75**	**5VF65**	—
Soft Thermoplastic Rubber Tread								
6"	600 lb	7 ½"	4" x 4 ½"	B	—	**4DE96**	**4DE98**	—
Firm Nythane Tread								
5"	550 lb	6 ½"	4" x 4 ½"	A	—	**16D129**	—	—
8"	880 lb	9 ½"	4" x 4 ½"	A	—	**16D133**	—	—
Firm Polyurethane Tread								
4"	650 lb	5 ⅝"	4" x 4 ½"	B	—	**49H860**	**49H862**	—
5"	750 lb	6 ½"	4" x 4 ½"	B	—	**49H863**	**49H864**	—
	990 lb	6 ½"	4 ½" x 6 ¼"	A	—	**455T73**	—	—
	1000 lb	6 ½"	4" x 4 ½"	B	Colson	**1VJA8**	**1VJA7**	—
	1050 lb	6 ½"	4" x 4 ½"	B	RWM	**29XV17**	**29XV18**	—
6"	1000 lb	7 ½"	4" x 4 ½"	B	—	**423J19**	**49H867**	—
	1200 lb	7 ½"	4" x 4 ½"	B	—	**489C70**	**489C73**	**489C71** ‡
	1200 lb	7 ½"	4 ½" x 6 ¼"	A	—	—	—	**489D77** ‡
	1200 lb	7 ½"	4" x 4 ½"	B	—	—	—	**490W16** ‡
	1230 lb	7 ½"	4" x 4 ½"	B	RWM	**29XV23**	**29XV24**	—
	1650 lb	7 ½"	4" x 4 ½"	B	—	—	—	**455T61**
	2000 lb	7 ½"	4 ½" x 6 ¼"	A	—	**36HW71**	**36HW72**	—
8"	1200 lb	9 ½"	4" x 4 ½"	B	—	**19YW82**	**49H870**	—
	1250 lb	9 ½"	4" x 4 ½"	B	—	—	—	**489C72** ‡
	1250 lb	9 ½"	4 ½" x 6 ¼"	A	—	—	—	**489D78** ‡
	1500 lb	9 ½"	4" x 4 ½"	B	RWM	**29XV29**	**29XV30**	—
	1500 lb	9 ½"	4" x 4 ½"	B	—	**490W09**	—	—
Firm Rubber Tread								
4"	300 lb	5 ⅝"	4" x 4 ½"	B	—	**29XV35**	**29XV36**	—
6"	500 lb	7 ½"	4" x 4 ½"	B	—	**29XV41**	**29XV42**	—
8"	600 lb	9 ½"	4" x 4 ½"	B	—	**29XV51**	—	—
Firm Thermoplastic Rubber Tread								
4"	300 lb	5 ⅝"	4" x 4 ½"	B	—	**440A59**	—	—
5"	350 lb	6 ½"	4" x 4 ½"	B	—	**1VJC6**	—	—
6"	500 lb	7 ½"	4" x 4 ½"	B	—	**1VJC8**	—	—

† With four-position swivel lock. ‡ With four-position swivel lock and brake.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Hard Elastomer Tread								
4"	1050 lb	5 ⅝"	4" x 4 ½"	B	RWM	**29XV09**	**29XV10**	—
6"	1500 lb	7 ½"	4" x 4 ½"	B	RWM	**29XV21**	**29XV22**	—
8"	1500 lb	9 ½"	4" x 4 ½"	B	RWM	**29XV27**	—	—
	1500 lb	9 ½"	5" x 5 ½"	D	RWM	**53CF24**	—	—
Hard Nylon Tread								
4"	350 lb	5 ⅝"	4" x 4 ½"	B	—	**45XA97**	**45XA98**	—
	1000 lb	5 ⅝"	4" x 4 ½"	B	—	**45XA96**	—	—
	1000 lb	5 ⅝"	4" x 4 ½"	B	—	**489C51**	—	—
	1750 lb	5 ⅝"	4" x 4 ½"	B	—	**489C61**	**489C63**	**489C62** ‡
5"	500 lb	6 ½"	4" x 4 ½"	B	—	**29XV37**	**45XC01**	—
	1250 lb	6 ½"	4" x 4 ½"	B	—	**45XA99**	—	—
6"	720 lb	7 ½"	4" x 4 ½"	B	—	**45XC03**	—	—
	720 lb	7 ½"	4" x 4 ½"	B	—	**29XV39**	**45XC04**	—
	1760 lb	7 ½"	4" x 4 ½"	B	—	—	—	**455T62** ‡
8"	880 lb	9 ½"	4" x 4 ½"	B	—	**29XV49**	—	—
	880 lb	10 ⅛"	4" x 4 ½"	B	—	**45XC08**	**45XC10**	—
	880 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	**45XC11**	—	—
	880 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	**45XC12**	—	—
	2200 lb	9 ½"	4" x 4 ½"	A	—	**2GML2**	**2GML3**	—
Hard Phenolic Tread								
3 ¼"	700 lb	4 ¼"	4" x 4 ½"	B	—	**490W11**	—	—
4"	700 lb	5 ⅝"	4" x 4 ½"	A	—	**5VF70**	**5VF60**	—
	800 lb	5 ⅝"	4" x 4 ½"	B	—	**489D32**	—	—
5"	1000 lb	6 ½"	4" x 4 ½"	B	—	**5VF72**	—	—
6"	1200 lb	7 ½"	4" x 4 ½"	B	—	**489D64**	**5VF64**	**489D65** ‡
	1200 lb	7 ½"	4" x 4 ½"	B	—	**5VF74**	—	—
8"	1400 lb	9 ½"	4" x 4 ½"	B	—	**5VF76**	**5VF66**	—
Hard Polyurethane Tread								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	—	**1VJB5**	—	—
5"	750 lb	6 ½"	4" x 4 ½"	B	—	**1VJB7**	—	—
6"	770 lb	7 ½"	4" x 4 ½"	B	—	**454M61**	—	—
	900 lb	7 ½"	4" x 4 ½"	B	—	**1VJB9**	—	—
	1000 lb	7 ½"	4" x 4 ½"	B	—	**4DE80**	**4DE81**	—
8"	1000 lb	10 ⅛"	4" x 4 ½"	B	—	**440A60**	—	—
Hard Thermoplastic Rubber Tread								
5"	1000 lb	6 ½"	4" x 4 ½"	B	RWM	**29XU43**	—	—
Extra-Hard Ductile Iron Tread								
5"	1500 lb	6 ½"	4" x 4 ½"	B	—	**1VJA2**	—	—
6"	1400 lb	7 ½"	4" x 4 ½"	B	—	**1VJA4**	—	—
8"	1400 lb	10 ⅛"	4" x 4 ½"	B	—	**1VJA6**	—	—
Extra-Hard Iron Tread								
6"	1200 lb	7 ½"	4" x 4 ½"	B	—	**489D63**	—	**489C46** ‡
8"	1400 lb	9 ½"	4" x 4 ½"	B	—	**489D67**	—	**489C47** ‡
Heavy-Duty								
Soft Polyurethane Tread								
4"	600 lb	5 ⅝"	4" x 5"	B	Hamilton	—	—	**45AN20** ‡
6"	960 lb	7 ½"	4" x 5"	B	Hamilton	—	—	**45AN54** ‡
	1230 lb	7 ½"	4" x 4 ½"	B	RWM	—	—	**53CG35** ‡
8"	1200 lb	9 ½"	4" x 5"	B	Hamilton	—	—	**45AN05** ‡
	1500 lb	9 ½"	4" x 4 ½"	B	RWM	**53CG39**	—	**53CG42** ‡
Soft Rubber Tread								
5"	600 lb	6 ½"	4" x 4 ½"	B	RWM	**53CF59**	—	—
6"	410 lb	7 ½"	4 ½" x 6 ½"	A	RWM	**53CF67**	—	—
	600 lb	7 ½"	4" x 4 ½"	B	RWM	**29XV84**	**29XV85**	—
	615 lb	7 ½"	4" x 4 ½"	B	RWM	**53CF61**	—	—
8"	700 lb	10 ⅛"	4" x 4 ½"	B	RWM	**29XV98**	**29XV99**	—
	750 lb	9 ½"	4" x 4 ½"	B	RWM	**53CF65**	—	—
	750 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	**53CF64**	**53CF62**	—
	1200 lb	10 ⅛"	6 9⁄16" x 5 ¾"	A	—	**4W682**	**4W686**	—

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Kingpinless Plate Casters

RWM colson HAMILTON ALBION®

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Soft Thermoplastic Rubber Tread								
6"	525 lb	7 ½"	4" x 4 ½"	B	RWM	53CF74	—	—
8"	600 lb	10 ⅛"	4" x 4 ½"	B	RWM	53CF76	—	—
Firm Polyurethane Tread								
4"	480 lb	6 ⅛"	6 9/16" x 5 ¾"	A	—	4W664	4W667	—
	700 lb	5 ⅝"	4" x 4 ½"	B	RWM	29XV67	53CF94	—
	700 lb	5 ⅝"	4" x 4 ½"	B	RWM	53CF95	—	—
	700 lb	5 ⅝"	4" x 4 ½"	B	RWM	53CF96	—	—
5"	750 lb	6 ½"	4" x 4 ½"	B	RWM	53CG62	53CG53	—
	750 lb	6 ½"	4" x 4 ½"	B	RWM	53CG54	—	—
	1050 lb	6 ½"	4" x 4 ½"	B	RWM	53CF99	53CF97	—
	1050 lb	6 ½"	4" x 4 ½"	B	RWM	53CG02	—	—
	1050 lb	6 ½"	4 ½" x 6 ½"	A	RWM	53CG45	53CG44	—
6"	900 lb	7 ½"	4" x 4 ½"	B	RWM	53CG64	53CG55	—
	1200 lb	7 ½"	4" x 5"	B	Hamilton	45AM89	—	45AN16 ‡
	1200 lb	7 ½"	4 in x 5 in	B	Hamilton	—	45AM82	—
	1230 lb	7 ½"	4" x 4 ½"	B	RWM	29XV92	29XV93	—
	1230 lb	7 ½"	4" x 4 ½"	B	RWM	53CG05	—	—
	1230 lb	7 ½"	4 ½" x 6 ½"	A	RWM	53CG48	53CG46	53CG49
	1230 lb	7 ⅝"	5 ¼" x 7 ¼"	A	RWM	—	—	53CG51
	1600 lb	8 ⅛"	6 9/16" x 5 ¾"	A	—	4W676	4W680	4W678
8"	1000 lb	9 ½"	4" x 4 ½"	B	RWM	53CG58	—	—
	1500 lb	9 ½"	4" x 5"	B	Hamilton	45AN11	—	—
	1500 lb	9 ½"	4" x 4 ½"	B	RWM	53CG13	53CG37	53CG41 ‡
	1500 lb	9 ½"	4" x 4 ½"	B	RWM	53CG14	—	—
	1500 lb	9 ½"	4" x 4 ½"	B	RWM	53CG38	—	—
	1500 lb	10 ⅛"	4" x 4 ½"	B	RWM	29XW03	29XW04	—
	2400 lb	10 ⅛"	6 9/16" x 5 ¾"	A	—	4W683	4W687	4W685
10"	2640 lb	12 ⅛"	6 9/16" x 5 ¾"	A	—	4W690	—	—
12"	3080 lb	14"	6 9/16" x 5 ¾"	A	—	4W697	4W700	—
Hard Elastomer Tread								
4"	1050 lb	5 ⅝"	4" x 4 ½"	B	RWM	53CF42	53CF41	—
5"	1200 lb	6 ½"	4" x 4 ½"	B	RWM	53CF45	53CF44	—
6"	1500 lb	7 ½"	4" x 4 ½"	B	RWM	29XU55	29XV83	29XU56 †
8"	1800 lb	9 ½"	4" x 4 ½"	B	RWM	53CF57	—	—
	1800 lb	10 ⅛"	4" x 4 ½"	B	RWM	—	—	29XU49 ‡
	1800 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	53CF55	—	—
Hard Phenolic Tread								
4"	800 lb	5 ⅝"	4" x 4 ½"	B	RWM	53CF28	53CF27	—
5"	1000 lb	6 ½"	4" x 4 ½"	B	RWM	53CF30	53CF29	—
6"	1200 lb	7 ½"	4" x 4 ½"	B	RWM	29XV79	29XV80	—
8"	1400 lb	9 ½"	4" x 4 ½"	B	RWM	53CF33	—	—
	1400 lb	9 ½"	4" x 4 ½"	B	RWM	53CF34	—	—
Hard Polyurethane Tread								
4"	1100 lb	5 ⅝"	4" x 5"	B	Hamilton	45AN03	—	45AN26
	1100 lb	5 ⅝"	4 ½" x 6 ½"	A	RWM	—	53CF77	53CF80 ‡
	1100 lb	5 ⅝"	4" x 4 ½"	B	RWM	53CF79	—	—
6"	2000 lb	7 ½"	4 ½" x 6 ½"	A	RWM	53CF84	—	—
	2000 lb	7 ½"	4" x 4 ½"	B	RWM	—	—	53CF86 ‡
	2400 lb	7 ½"	4" x 5"	B	Hamilton	45AN15	—	45AN33 ‡
	2400 lb	7 ½"	4 in x 5 in	B	Hamilton	—	45AM98	—
8"	2000 lb	9 ½"	4 ½" x 6 ½"	A	RWM	53CF90	53CF88	—
	2500 lb	9 ½"	4" x 5"	B	Hamilton	45AM95	—	45AN31 ‡
Extra-Hard Iron Tread								
4"	700 lb	6 ⅛"	6 9/16" x 5 ¾"	A	—	4W665	4W668	—
5"	1400 lb	7 ⅛"	6 9/16" x 5 ¾"	A	—	4W671	—	—
6"	2000 lb	8 ⅛"	6 9/16" x 5 ¾"	A	—	4W677	4W681	—
	3500 lb	7 15/16"	5 ¼" x 7 ¼"	A	—	416P26	—	—
8"	2250 lb	10 ⅛"	6 9/16" x 5 ¾"	A	—	4W684	4W688	—
Extra-Hard Steel Tread								
5"	1500 lb	6 ½"	4" x 4 ½"	B	RWM	53CF36	53CF35	—
6"	1800 lb	7 ½"	4" x 4 ½"	B	RWM	29XV81	29XV82	—
	2500 lb	7 ½"	4" x 5"	B	Hamilton	45AN52	—	45AN51 ‡
Extra-Heavy-Duty								
Soft Polyurethane Tread								
4"	600 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	45AM92	—	—
6"	2400 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	—	—	45AM85 ‡
	2450 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	45AN18	—	—
Firm Polyurethane Tread								
6"	1200 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	45AM99	—	—
	1600 lb	8 ½"	6" x 7 7/16"	A	—	4W702	4W706	—
	2000 lb	7 ½"	4 ½" x 6 ½"	A	RWM	29XW25	29XW26	—
	2000 lb	7 ½"	4 ½" x 6 ¼"	A	—	454M99	489A95	490W17
	2000 lb	8"	5 ¼" x 7 ¼"	A	RWM	53CH39	—	—
8"	2500 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	29XU42	29XU44	53CH15 ‡
	2500 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	490W18	—	—
	2500 lb	10 ¼"	4 ½" x 6 ½"	A	Hamilton	—	—	45AN21 ‡
	2500 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	454N61	—	—
	2500 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	53CH14	—	—
	2550 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	—	—	455T68 ‡
	3000 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	53CH11	—	—
9 15/16"	3950 lb	12 ½"	5 ¼" x 7 ¼"	A	—	455T81	—	454N32
10"	3000 lb	11 ½"	4 ½" x 6 ½"	A	RWM	29XW35	29XW36	—
	3000 lb	12 ½"	4 ½" x 6 ¼"	A	—	454N63	454N64	—
	5000 lb	12 ½"	5 ¼" x 7 ¼"	A	RWM	53CH52	53CH46	53CH50
12"	3400 lb	13 ½"	4 ½" x 6 ½"	A	RWM	53CH20	—	—
	3500 lb	15 ½"	5 ¼" x 7 ¼"	A	—	—	—	489C49 ‡
Hard Elastomer Tread								
6"	2300 lb	7 ½"	4 ½" x 6 ½"	A	RWM	29XW19	29XW20	—
Hard Nylon Tread								
6"	2600 lb	7 ½"	4 ½" x 6 ½"	A	RWM	53CG88	—	—
	4100 lb	7 ½"	4 ½" x 6 ¼"	A	—	483N19	483N18	—
	4100 lb	7 ½"	5 ¼" x 7 ¼"	A	—	440A58	—	—
	7000 lb	8"	5 ¼" x 7 ¼"	A	RWM	53CH35	53CH34	—
8"	3200 lb	10 ¼"	4 ½" x 6 ½"	A	Hamilton	—	—	45AN35 ‡
	5400 lb	10 ⅛"	5 ¼" x 7 ¼"	A	—	483N24	483N23	—
	6000 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	—	—	53CG93 ‡
10"	4100 lb	12 ½"	4 ½" x 6 ¼"	A	—	440A63	—	—
	6000 lb	11 ½"	4 ½" x 6 ½"	A	RWM	53CG95	—	—

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Hard Phenolic Tread								
6"	1600 lb	7 ½"	4 ½" x 6 ½"	A	RWM	29XW15	29XW16	—
	3000 lb	8"	5 ¼" x 7 ¼"	A	RWM	29XW39	29XW40	—
8"	2000 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	29XW27	29XW28	—
	2500 lb	10 ½"	5 ¼" x 7 ¼"	A	RWM	29XW47	—	—
Hard Polyurethane Tread								
4"	1100 lb	5 ⅝"	4 ½" x 6 ½"	A	Hamilton	45AN32	—	—
6"	3200 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	45AM80	—	45AM81 ‡
8"	3200 lb	10 ¼"	4 ½" x 6 ½"	A	Hamilton	45AM73	—	—
	3850 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	53CH02	—	—
Extra-Hard Ductile Iron Tread								
6"	3500 lb	7 ½"	4 ½" x 6 ¼"	A	—	1VJE2	1VJE1	—
	4100 lb	7 ½"	4 ½" x 6 ¼"	A	—	1VJE4	1VJE3	—
	5400 lb	7 ½"	5 ¼" x 7 ¼"	A	—	1VJG6	—	—
8"	4100 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	1VJE6	1VJE5	—
10"	4100 lb	12 ½"	4 ½" x 6 ¼"	A	—	1VJE8	1VJE7	—
Extra-Hard Iron Tread								
10"	4000 lb	11 ½"	4 ½" x 6 ½"	A	RWM	53CG74	53CG73	—
Extra-Hard Steel Tread								
6"	2500 lb	7 ¾"	4 ½" x 6 ½"	A	Hamilton	45AM90	—	45AN06 ‡
	3200 lb	7 ½"	4 ½" x 6 ½"	A	Hamilton	45AN46	—	45AM74 ‡
	5000 lb	7 ½"	4 ½" x 6 ½"	A	RWM	29XW17	29XW18	—
	6000 lb	7 ½"	4 ½" x 6 ½"	A	RWM	29XW21	29XW22	—
	7000 lb	8"	5 ¼" x 7 ¼"	A	RWM	53CH23	53CH22	—
	7000 lb	8"	5 ¼" x 7 ¼"	A	RWM	53CH29	53CH28	—
8"	4500 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	29XW29	—	—
	5500 lb	8"	5 ¼" x 7 ¼"	A	RWM	53CH25	53CH24	—
	5500 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	53CG83	53CG84	—
	5500 lb	10 ½"	5 ¼" x 7 ¼"	A	RWM	53CH31	—	—
	5500 lb	10 ½"	5 ¼" x 7 ¼"	A	RWM	29XW49	29XW50	—
10"	6000 lb	11 ½"	4 ½" x 6 ½"	A	RWM	53CG86	—	—
	6000 lb	12 ½"	5 ¼" x 7 ¼"	A	RWM	53CH27	—	—
	6000 lb	12 ½"	5 ¼" x 7 ¼"	A	RWM	53CH33	—	—
Super-Duty								
Firm Polyurethane Tread								
6"	2200 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	—	1VHW2	—
	2900 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	1VHW1	—	—
8"	2500 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	1VHW7	—	—
10"	3000 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	1VHX4	1VHX5	—
	3000 lb	12 ½"	6 ½" x 7 ½"	B	Hamilton	52YU34	—	—
Hard Nylon Tread								
6"	10,000 lb	8 ½"	6 ¼" x 7 ½"	B	RWM	29XW60	—	—
	10,000 lb	8 ½"	6 ¼ in x 7 ½ in	B	RWM	—	29XW61	—
8"	6000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	49H585	49H587	—
10"	10,000 lb	12 ½"	6 ¼" x 7 ½"	B	RWM	29XW72	—	—
Extra-Hard Steel Tread								
6"	3500 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	52YU05	—	52YU40 ‡
	6000 lb	8"	5 ¼" x 7 ¼"	A	Hamilton	1VHW3	1VHW4	—
8"	20,000 lb	10 ½"	6 ¼" x 7 ½"	B	RWM	29XW68	—	—
	20,000 lb	10 ½"	6 ¼ in x 7 ½ in	B	RWM	—	29XW69	—
	3500 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	52YU07	—	—
	6000 lb	10 ½"	5 ¼" x 7 ¼"	A	Hamilton	1VHW9	1VHX1	—
10"	6000 lb	12 ½"	5 ¼" x 7 ¼"	A	Hamilton	1VHX6	1VHX7	—
Easy-Swivel Extended-Lead Medium-Duty								
Firm Polyurethane Tread								
4"	650 lb	5 ⅝"	4" x 4 ½"	B	—	49H861	—	—
5"	750 lb	6 ½"	4" x 4 ½"	B	—	45XC21	—	—
6"	1000 lb	7 ½"	4" x 4 ½"	B	—	49H866	—	—
8"	1200 lb	9 ½"	4" x 4 ½"	B	—	49H869	—	38GV52
	1200 lb	10 ⅛"	4 ½" x 6 ¼"	A	—	19YW86	—	—
	1200 lb	10 ⅛"	4" x 4 ½"	B	—	49H868	—	—
Easy-Turn Extra-Heavy-Duty								
Firm Polyurethane Tread								
6"	2460 lb	8"	4 ½" x 6 ½"	A	RWM	53CF21	—	—
Hard Elastomer Tread								
6"	3000 lb	8"	4 ½" x 6 ½"	A	RWM	—	—	53CH64 †
Extra-Hard Iron Tread								
6"	2400 lb	8"	4 ½" x 6 ½"	A	RWM	53CF19	—	—
Corrosion-Resistant Medium-Duty								
Firm Polyurethane Tread								
4"	600 lb	5 ⅝"	4" x 4 ½"	B	Albion	55FE32	—	—
5"	750 lb	6 ½"	4" x 4 ½"	B	RWM	53CH61	53CH60	—
Corrosion-Resistant Extra-Heavy-Duty								
Hard Nylon Tread								
6"	3000 lb	7 ½"	4 ½" x 6 ¼"	A	—	483N26	—	—

† With four-position swivel lock. ‡ With four-position swivel lock and brake.

NSF-Listed Sanitary Plate Casters

Casters satisfy the National Sanitation Foundation's (NSF) rigorous testing requirements for casters that are used in environments where sanitary conditions must be maintained. Mount onto carts, prep tables, food-service equipment, racks, and similar items that will be exposed to frequent washdowns, oils, or chemicals. **Light-duty** casters have zinc-plated or nickel-plated steel frames and are suitable for transporting relatively light loads over smooth, flat surfaces. **Medium-duty** casters have thick steel frames and can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than light-duty casters. Suitable for transporting moderately heavy to heavy loads over smooth, flat surfaces. **Corrosion-resistant** casters have stainless-steel frames that resist rusting when exposed to water, cleaning chemicals, and other corrosives. **Heat-resistant** casters have nylon wheels that can withstand exposure to high temperatures up to 550°F. **Debris-resistant long-swivel-life** casters have a dust cap that stops debris from entering the casters' swivel raceways and preventing the caster from swiveling.

Corrosion- & Heat-Resistant Swivel 33J044

Medium-Duty Swivel w/ 4-Position Directional Lock 489C48

Plate A

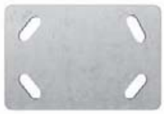

Plate B

Plate C

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Corrosion- & Heat-Resistant Light-Duty							
Hard Nylon Tread							
3"	200 lb	4¼"	2½" x 3⅝"	C	**33J044**	**33J043**	—
3½"	250 lb	4 11/16"	2½" x 3⅝"	C	**33J045**	—	—
4"	275 lb	5⅛"	2½" x 3⅝"	C	**33J047**	**33J046**	—
5"	300 lb	6 3/16"	2½" x 3⅝"	C	**33J049**	**33J048**	—
Corrosion-Resistant Light-Duty							
Firm Polypropylene Tread							
3"	200 lb	4¼"	2½" x 3⅝"	C	—	**33J058**	—
3½"	250 lb	4 11/16"	2½" x 3⅝"	C	—	**483N48**	—
4"	300 lb	5⅛"	2½" x 3⅝"	C	—	**33J062**	—
5"	325 lb	6 3/16"	2½" x 3⅝"	C	—	**33J064**	—
Firm Rubber Tread							
4"	300 lb	5⅛"	2½" x 3⅝"	C	**33J063**	—	—
5"	325 lb	6 3/16"	2½" x 3⅝"	C	**33J065**	—	—
Firm Thermoplastic Rubber Tread							
3"	200 lb	4¼"	2½" x 3⅝"	C	**33J059**	—	—
Hard Polyurethane Tread							
3"	300 lb	4¼"	2½" x 3⅝"	C	**33J051**	**33J050**	—
3½"	325 lb	4 11/16"	2½" x 3⅝"	C	**33J053**	**33J052**	—
4"	325 lb	5⅛"	2½" x 3⅝"	C	**33J055**	**33J054**	—
Debris-Resistant Long-Swivel-Life Light-Duty							
Soft Rubber Tread							
4"	165 lb	5⅛"	3¾" x 4⅜"	B	—	—	**33H642**
	200 lb	5 3/16"	3⅛" x 4⅛"	A	**33H917**	—	**33H637**
5"	200 lb	6 3/16"	3¾" x 4⅜"	B	—	—	**33H682**
	240 lb	6 3/16"	3⅛" x 4⅛"	A	**33H918**	—	**33H660**
Soft Thermoplastic Rubber Tread							
4"	275 lb	5 3/16"	3⅛" x 4⅛"	A	**33H929**	—	**33H662**
	275 lb	5 3/16"	3¾" x 4½"	B	**33H905**	—	**33H716**
5"	300 lb	6 3/16"	3⅛" x 4⅛"	A	**33H930**	—	**33H663**
	300 lb	6 3/16"	3¾" x 4½"	B	**33H906**	—	**33H717**
Firm Polyurethane Tread							
4"	375 lb	5 3/16"	3⅛" x 4⅛"	A	**33H935**	—	**33H713**
	375 lb	5 3/16"	3¾" x 4½"	B	**33H911**	—	**33J041**
5"	450 lb	6 3/16"	3⅛" x 4⅛"	A	**33H936**	—	**33H714**
	450 lb	6 3/16"	3¾" x 4½"	B	**33H912**	—	**33J042**
6"	450 lb	7 5/16"	3¾" x 4½"	B	**33H913**	—	**33H719**
Hard Phenolic Tread							
4"	350 lb	5 3/16"	3¾" x 4½"	B	**406P68**	—	**406P70**
5"	450 lb	6 3/16"	3¾" x 4½"	B	—	—	**33H686**
6"	450 lb	7 5/16"	3¾" x 4½"	B	**33H623**	—	**33H643**
Hard Polyolefin Tread							
5"	450 lb	6 3/16"	3⅛" x 4⅛"	A	**33H924**	—	**33J036**
Hard Polypropylene Tread							
6"	300 lb	7¼"	3¾" x 4⅜"	B	**33H901**	—	—
Extra-Hard Iron Tread							
3"	450 lb	4¼"	3¾" x 4⅜"	B	**33H777**	—	—
Light-Duty							
Soft Rubber Tread							
3"	125 lb	4¼"	2½" x 3⅝"	C	—	—	**489C26**
3½"	155 lb	4 11/16"	2½" x 3⅝"	C	**455U17**	—	—
	155 lb	4 11/16"	3¾" x 4⅜"	B	**488U03**	—	—
4"	150 lb	5⅛"	3⅛" x 4⅛"	C	—	**487H10**	—
	150 lb	5⅛"	3¾" x 4⅜"	B	**489C27**	—	—
	165 lb	5⅛"	2½" x 3⅝"	C	**4W906**	**400K58**	—
	165 lb	5⅛"	3¾" x 4⅜"	B	—	**33H895**	—
	200 lb	5⅛"	3¾" x 4⅜"	B	**455U18**	—	—
	200 lb	5 3/16"	3⅛" x 4⅛"	A	—	**33H920**	—
5"	175 lb	6 3/16"	2½" x 3⅝"	C	**489C24**	**489C25**	—
	200 lb	6⅛"	2½" x 3⅝"	C	**4W907**	**400K59**	—
	200 lb	6 3/16"	3¾" x 4⅜"	B	—	**33H896**	—
	240 lb	6 3/16"	3⅛" x 4⅛"	A	—	**33H921**	—
	325 lb	6 3/16"	3⅛" x 4⅛"	C	**483N49**	**487H11**	—
6"	325 lb	7¼"	3⅛" x 4⅛"	C	**483N43**	—	—
	325 lb	7¼"	3¾" x 4⅜"	B	**487G96**	**487G97**	**487G85**
Soft Thermoplastic Rubber Tread							
4"	165 lb	5⅛"	2¾" x 3¾"	C	—	**4W921**	—
	275 lb	5 3/16"	3⅛" x 4⅛"	A	—	**33H932**	—
	275 lb	5 3/16"	3¾" x 4½"	B	—	**33H908**	—
5"	200 lb	6 3/16"	2½" x 3⅝"	C	—	**400K62**	—
	200 lb	6 3/16"	2½" x 3⅝"	C	**400K61**	**4W922**	—
	300 lb	6 3/16"	3⅛" x 4⅛"	A	—	**33H933**	—
	300 lb	6 3/16"	3¾" x 4½"	B	—	**33H909**	—
Firm Polyurethane Tread							
3"	250 lb	4¼"	2½" x 3⅝"	C	**2G041**	—	—
3½"	250 lb	4⅝"	2½" x 3⅝"	C	**400K63**	**4W926**	—
	250 lb	4⅝"	2½" x 3⅝"	C	**1G095**	**1G098**	**5UX86**
4"	250 lb	5⅛"	2½" x 3⅝"	C	**1G096**	**1G099**	—
	275 lb	5⅛"	2½" x 3⅝"	C	**4W924**	**400K64**	**5UX87**
	375 lb	5 3/16"	3⅛" x 4⅛"	A	—	**33H938**	—
	375 lb	5 3/16"	3¾" x 4½"	B	—	**33H914**	—
5"	250 lb	6⅛"	2½" x 3⅝"	C	**1G097**	**1G100**	—
	300 lb	6 3/16"	2½" x 3⅝"	C	**4W925**	**400K65**	**5UX88**
	450 lb	6 3/16"	3⅛" x 4⅛"	A	—	**33H939**	—
	450 lb	6 3/16"	3¾" x 4½"	B	—	**33H915**	—
6"	450 lb	7 5/16"	3¾" x 4½"	B	—	**33H916**	—
Firm Rubber Tread							
3½"	155 lb	4⅝"	2¾" x 3¾"	C	**4W905**	—	—
	250 lb	4 11/16"	2½" x 3⅝"	C	**455U13**	—	**489A67** *
4"	300 lb	5⅛"	2½" x 3⅝"	C	**455U14**	**455U16**	—
5"	325 lb	6 3/16"	2½" x 3⅝"	C	**455U15**	**488Z86**	—
6"	325 lb	7¼"	3⅛" x 4⅛"	C	—	**487H04**	—
	325 lb	7¼"	3¾" x 4⅜"	B	**487G99**	**487H01**	—
Firm Thermoplastic Rubber Tread							
2"	80 lb	2⅝"	1¾" x 2⅝"	D	**29XW87**	—	—
3"	210 lb	4¼"	2½" x 3⅝"	C	**2G053**	—	—
Hard Phenolic Tread							
3"	350 lb	4¼"	3¾" x 4½"	B	—	**400K76**	**400K75**
5"	450 lb	6 3/16"	3¾" x 4½"	B	**400K73**	—	—
6"	450 lb	7 5/16"	3¾" x 4½"	B	—	**33H626**	—
Hard Polyolefin Tread							
2½"	175 lb	3½"	2¾" x 3¾"	C	**1UKR9**	—	—
3"	210 lb	3¾"	3⅛" x 4⅛"	A	**1UKT2**	**435X84**	**1UKT4**
3½"	250 lb	4 11/16"	2½" x 3⅝"	C	**4W911**	**4W914**	**5UX83**
4"	275 lb	5⅛"	2½" x 3⅝"	C	**4W912**	**400K60**	**5UX84**
	300 lb	5 3/16"	3⅛" x 4⅛"	A	**33J002**	**33J004**	**33J015**
5"	300 lb	6 3/16"	2½" x 3⅝"	C	**4W913**	**4W916**	**400K70**
	350 lb	6 3/16"	3⅛" x 4⅛"	A	—	**400K77**	—
	350 lb	6 3/16"	3⅛" x 4⅛"	A	**33J003**	**33J005**	**33J016**
6"	400 lb	7 19/64"	3⅛" x 4⅛"	A	—	**33J011**	**33H641**
Hard Polypropylene Tread							
3"	210 lb	3 13/16"	3⅛" x 4⅛"	C	**33H744**	—	—
4"	275 lb	5⅛"	3⅛" x 4⅛"	C	**483N46**	**455U21**	**488Z82** *
	275 lb	5⅛"	3⅛" x 4⅛"	C	**488Z81**	—	**483N47**
	275 lb	5⅛"	3¾" x 4⅜"	B	**455U19**	—	—
5"	300 lb	6 3/16"	2½" x 3⅝"	C	**489A65**	**489A66**	—
	300 lb	6 3/16"	3⅛" x 4⅛"	C	**488Z84**	**488Z83**	—
6"	250 lb	7¼"	3¾" x 4⅜"	B	—	—	**487H09**
	300 lb	7¼"	3⅛" x 4⅛"	C	—	—	**488U04**
	325 lb	7¼"	3⅛" x 4⅛"	C	**487H02**	**487H03**	—
	325 lb	7¼"	3¾" x 4⅜"	B	—	**487G98**	—
Hard Polyurethane Tread							
6"	325 lb	7¼"	3⅛" x 4⅛"	C	**487H05**	**487H06**	—
Hard Rubber Tread							
3"	210 lb	3¾"	3⅛" x 4⅛"	A	**1UKU3**	**1UKV4**	**1UKU7**
4"	150 lb	5⅛"	3⅛" x 4⅛"	C	—	**487G77**	—
6"	325 lb	7¼"	3⅛" x 4⅛"	C	**487G76**	**487G78**	—
Extra-Hard Iron Tread							
3"	450 lb	4¼"	3¾" x 4⅜"	B	—	**455U20**	—
Medium-Duty							
Soft Rubber Tread							
5"	400 lb	6½"	4" x 4½"	B	**488Z87**	—	**489A15** *
6"	550 lb	7½"	4" x 4½"	B	**488Z88**	**489A17**	**489A16** *
	550 lb	7½"	4" x 4½"	B	**489C32**	—	—
8"	600 lb	9½"	4" x 4½"	B	**3G135**	**488Z91**	**488Z90**
	600 lb	9½"	4" x 4½"	B	**488Z89**	—	**489A18** *
	600 lb	9½"	5" x 5½"	D	**489A28**	—	—
Soft Thermoplastic Rubber Tread							
6"	600 lb	7¼"	4" x 4½"	B	**2LY30**	**2LY28**	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

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CONTINUED

For information on selecting casters, see page 1191.

NSF-Listed Sanitary Plate Casters

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Firm Polyurethane Tread							
4"	700 lb	5⅝"	4" x 4½"	B	—	**489D41**	**489C48** ‡
	700 lb	5⅝"	4" x 4½"	B	—	—	**489D59** ‡
5"	750 lb	6½"	4" x 4½"	B	**1ULE9**	**1ULF6**	**400K46** *
	1050 lb	6½"	4" x 4½"	B	**1ULF9**	**3G138**	—
	1050 lb	6½"	4" x 4½"	B	**3G139**	—	—
	1050 lb	6½"	5" x 5½"	D	—	**1ULG4**	—
	1100 lb	6½"	4" x 4½"	B	**488Z92**	**488Z94**	**488Z93**
	1100 lb	6½"	4" x 4½"	B	—	—	**489A19** *
	1100 lb	6½"	4" x 4½"	B	—	—	**489A20** †
6"	800 lb	7½"	4" x 4½"	B	**400K45**	**400K48**	**400K47** *
	1200 lb	7½"	4" x 4½"	B	**489C03**	—	—
	1200 lb	7½"	4½" x 6¼"	A	**489D73**	—	—
	1230 lb	7¼"	4" x 4½"	B	—	**3G140**	—
	1250 lb	7½"	4" x 4½"	B	—	**488Z97**	**488Z96**
	1250 lb	7½"	4" x 4½"	B	—	—	**489A21** *
	1250 lb	7½"	5" x 5½"	D	**489A35**	—	—
8"	900 lb	9½"	4" x 4½"	B	**1ULF2**	**1ULF8**	**1ULF5** *
	1250 lb	9½"	4" x 4½"	B	—	**489D44**	**489A23** †
	1250 lb	9½"	4" x 4½"	B	**3G143**	**489A01**	**488Z99**
	1250 lb	9½"	4" x 4½"	B	**488Z98**	**3G142**	**489A22** *
	1250 lb	9½"	4½" x 6¼"	A	**489A42**	**489A43**	—
	1250 lb	9½"	5" x 5½"	D	**489A38**	—	—
Firm Rubber Tread							
8"	600 lb	9½"	4" x 4½"	B	—	**3G134**	—
Firm Thermoplastic Rubber Tread							
4"	300 lb	5⅝"	4" x 4½"	B	—	—	**489C76** *
5"	350 lb	6½"	4" x 4½"	B	—	—	**489A12**
6"	500 lb	7½"	4" x 4½"	B	**489C78**	—	**489C79** *
8"	600 lb	9½"	4" x 4½"	B	—	—	**489A13**
Hard Nylon Tread							
4"	1250 lb	5⅝"	4" x 4½"	B	**489A51**	—	—
	1250 lb	9½"	4" x 4½"	B	**489A52**	—	—
Hard Phenolic Tread							
3¼"	700 lb	5⅝"	4" x 4½"	B	**489A02**	—	—
4"	350 lb	5³⁄₁₆"	3¾" x 4½"	B	—	**406P69**	—
	800 lb	5⅝"	4" x 4½"	B	**33H746**	**33H747**	**489D62** ‡
	800 lb	5⅝"	4" x 4½"	B	**489D61**	—	—
5"	450 lb	6³⁄₁₆"	3¾" x 4½"	B	—	**400K74**	—
	900 lb	6½"	4" x 4½"	B	**33H880**	**33H883**	—
	1000 lb	6½"	4" x 4½"	B	**489C99**	—	**489A04**
	1000 lb	6½"	4" x 4½"	B	—	—	**489D01** *
6"	900 lb	7½"	4" x 4½"	B	**33H881**	**33H884**	—
	1200 lb	7½"	4" x 4½"	B	**489D03**	**489D04**	**489A07**
	1200 lb	7½"	4" x 4½"	B	—	—	**489A25** *
	1200 lb	7½"	4½" x 6¼"	A	**489A44**	**489A45**	—
8"	900 lb	9½"	4" x 4½"	B	**33H882**	**33H885**	—
	1250 lb	9½"	4" x 4½"	B	—	—	**489A27** †
	1250 lb	9½"	4" x 4½"	B	**489A09**	**489D46**	**489A10**
	1250 lb	9½"	4" x 4½"	B	—	—	**489A26** *
Hard Polypropylene Tread							
5"	650 lb	6½"	4" x 4½"	B	—	—	**489C97** *
6"	700 lb	7½"	4" x 4½"	B	—	—	**489C98** *
Hard Polyurethane Tread							
4"	600 lb	5⅝"	4" x 4½"	B	**33J019**	**33J022**	—
5"	660 lb	6½"	4" x 4½"	B	**33J020**	**33J023**	**489C85** *
	660 lb	6½"	4" x 4½"	B	**489C81**	**489C87**	**489C82** *
	660 lb	6½"	4" x 4½"	B	**489C84**	**489C83**	**489C86** †
6"	770 lb	7½"	4" x 4½"	B	—	—	**489C93** *
	770 lb	7½"	4" x 4½"	B	—	—	**489C94** †
	770 lb	7½"	4" x 4½"	B	**489C88**	**489C91**	**489C89** *
	770 lb	7½"	4" x 4½"	B	**489C92**	**489C95**	**489C90** †
Extra-Hard Iron Tread							
4"	700 lb	5⅝"	4" x 4½"	B	**489D60**	**489D42**	**489C45** ‡
	700 lb	5⅝"	4½" x 6¼"	A	**489D72**	**489D79**	**489D76** ‡
5"	1000 lb	6½"	4½" x 6¼"	A	**489A41**	—	—
6"	1200 lb	7½"	4" x 4½"	B	—	**489D43**	—
	1200 lb	7½"	4½" x 6¼"	A	**489A46**	**489A47**	—
	1200 lb	7½"	5" x 5½"	D	**489A30**	—	—
8"	1250 lb	9½"	4" x 4½"	B	—	**489D45**	—
	1250 lb	9½"	4½" x 6¼"	A	**489A48**	—	—
	1250 lb	9½"	5" x 5½"	D	**489A31**	—	—

** With total lock. † With four-position swivel lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster. See Grainger.com® for exact dimensions.*

Antimicrobial Swivel w/ Total Lock 1MMH2

Low-Profile, Easy-Turn Swivel 1MMB8

Plate A

Plate C

colson

Quiet-Roll Medical Plate Casters

Casters have precision ball bearings that provide smooth rolling and minimize noise that can disturb patients in medical settings. Thread guards keep debris from getting into the casters' axles and damaging them. Mount onto equipment used in hospitals, rehabilitation centers, pharmacies, laboratories, and similar medical facilities. **Antimicrobial corrosion- and debris-resistant** casters are made from stainless steel and resist corrosion when exposed to water and chemicals. The casters' wheels are impregnated with an antimicrobial compound that prevents odor-causing, damaging microbes from growing on them. Suitable for use where high standards of cleanliness must be maintained and equipment will be washed down frequently. **General purpose** casters are suitable for a wide range of applications in hospitals and other medical facilities. **High-performance** casters have precision ball bearings and provide smoother, quieter rolling than other types of medical plate casters. Nylon frames resist chemicals and corrosion and weigh less than metal frames. Suitable for use on equipment that will be moved frequently and may be exposed to chemicals. **Low-profile easy-turn** casters are used on patient lifts and other equipment that must stay low to the ground to maximize its stability. Casters have two wheels mounted on a single axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Antimicrobial Corrosion- & Debris-Resistant							
Firm Thermoplastic Rubber Tread							
3"	165 lb	4 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMH1**	**1MMH2** *
	165 lb	4 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMH3** †
4"	190 lb	5 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMH4**	**1MMH5** *
	190 lb	5 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMH6** †
5"	220 lb	6 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMH7**	**1MMH8** *
	220 lb	6 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMH9** †
6"	240 lb	7 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMJ1**	**1MMJ2** *
	240 lb	7 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMJ3** †
General Purpose							
Soft Neoprene Tread							
2"	125 lb	2 15⁄16"	1 ¼" x 2 ⅜"	C	—	**455U07**	**455U08** *
3"	175 lb	4 ⅛"	2 ½" x 3 ⅝"	C	—	**455U09**	**455U10** *
Firm Thermoplastic Rubber Tread							
3"	165 lb	4 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMC9**	**1MMD1** *
	165 lb	4 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMD2** †
4"	190 lb	5 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMD3**	**1MMD4** *
	190 lb	5 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMD5** †
5"	220 lb	6 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMD6**	**1MMD7** *
	220 lb	6 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MMD8** †
6"	240 lb	7 7⁄16"	2 ½" x 3 ⅝"	C	—	**1MMD9**	**1MME1** *
	240 lb	7 7⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MME2** †
High-Performance							
Soft Thermoplastic Rubber Tread							
3"	200 lb	4 ¼"	2 ½" x 3 ⅝"	C	Colson	**40N392**	**40N393** *
Firm Thermoplastic Rubber Tread							
3"	165 lb	4 ⅞"	2 ½" x 3 ⅝"	C	—	**454Y36**	**454Y37** *
4"	190 lb	5 13⁄16"	2 ½" x 3 ⅝"	C	—	**1MML2**	**1MML3** †
	190 lb	5 13⁄16"	2 ½" x 3 ⅝"	C	—	—	**1MML4** *
5"	220 lb	6 ⅞"	2 ½" x 3 ⅝"	C	—	**1MML5**	**1MML6** †
	220 lb	6 ⅞"	2 ½" x 3 ⅝"	C	—	—	**1MML7** *
6"	240 lb	7 13⁄16"	2 ½" x 3 ⅝"	C	—	**454Y42**	**454Y43** *
Low-Profile Easy-Turn							
Soft Thermoplastic Rubber Tread							
3"	200 lb	4 1⁄16"	2 ½" x 3 ⅝"	C	Colson	**1MMB8**	—
	220 lb	4 1⁄16"	2 ½" x 3 ⅝"	C	Colson	—	**1MMB9** *
Soft Rubber Tread							
2"	200 lb	2 ⅞"	2 ⅝" x 3"	A	Colson	**40N390**	**40N391** *

** With total lock. † With swivel lock.*

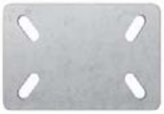
Plate A

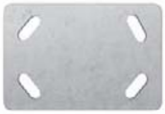
Plate B

Light-Duty Swivel with Brake 60FD26

Shock-Absorbing Medium-Duty Rigid 29XV44

Heavy-Duty Swivel 29XW11

Maintenance-Free Plate Casters

RWM ALBION®

Casters have sealed precision ball bearings in their swivel raceways and wheels that do not need to be routinely greased, which reduces time spent on maintenance and helps extend the casters' life. Casters roll quietly and require minimal force to start and keep them rolling. **Medium-duty** casters have zinc-plated steel frames and are used on carts, racks, and similar equipment that will be carrying moderately heavy to heavy loads over flat, smooth surfaces. **Shock-absorbing** casters have spoked wheels that absorb and distribute shock to prevent damage to the caster and minimize noise while rolling. **Heavy-duty** casters have zinc-plated steel frames and can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than medium-duty casters. Suitable for carts, trucks, towline fixtures, and other equipment that will be pushed manually or towed by powered equipment in manufacturing, aerospace and automotive assembly, warehouses, and similar industrial applications.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Brand	RIGID CASTER Item No.	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Light-Duty								
3"	250 lb	4¼"	3 ⅝" x 2 ½"	B	Albion	**60FD24**	**60FD25**	**60FD26**
4"	250 lb	5⅛"	3 ⅝" x 2 ½"	B	Albion	**60FD27**	**60FD28**	**60FD29**
	250 lb	5⅛"	3 ⅝" x 2 ½"	B	Albion	**60FD36**	—	**60FD37**
5"	250 lb	6 3/16"	3 ⅝" x 2 ½"	B	Albion	**60FD38**	**60FD31**	**60FD40**
	250 lb	6 3/16"	3 ⅝" x 2 ½"	B	Albion	**60FD30**	**60FD39**	**60FD32**
Medium-Duty								
4"	400 lb	5 ⅝"	4" x 4½"	B	RWM	**55KP15**	**55KP14**	—
	800 lb	5⅝"	4 ½" x 4"	B	Albion	**60FD50**	**60FD51**	**60FD49**
5"	375 lb	6½"	4 ½" x 4"	B	Albion	**60FD94**	**60FD95**	**60FD96**
	1000 lb	6½"	4 ½" x 4"	B	Albion	**60FD82**	**60FD83**	**60FD84**
	1000 lb	5⅝"	4 ½" x 4"	B	Albion	**60FD53**	**60FD54**	—
	1000 lb	6½"	4 ½" x 4"	B	Albion	—	—	**60FD52**
	1200 lb	6 ½"	4" x 4½"	B	RWM	**55KP86**	**55KP16**	—
6"	600 lb	7½"	4 ½" x 4"	B	Albion	**60FD97**	**60FD98**	**60FD99**
	1250 lb	7½"	4 ½" x 4"	B	Albion	**60FD85**	**60FD86**	**60FD87**
	1500 lb	7 ½"	4" x 4½"	B	RWM	**55KP87**	**55KP19**	—
8"	1250 lb	9½"	4 ½" x 4"	B	Albion	—	**60FD89**	—
	1250 lb	5⅝"	4 ½" x 4"	B	Albion	**60FD59**	—	—
	1500 lb	9 ½"	4" x 4½"	B	RWM	—	**55KP22**	—
Soft Rubber Tread								
6"	615 lb	7 ½"	4" x 4 ½"	B	RWM	**29XV48**	**29XV47**	—
8"	750 lb	9 ½"	4" x 4 ½"	B	RWM	—	**29XV57**	—
Firm Polyurethane Tread								
8"	1500 lb	9 ½"	4" x 4 ½"	B	RWM	**29XV56**	**29XV55**	—
Hard Elastomer Tread								
8"	1500 lb	9 ½"	4" x 4 ½"	B	RWM	**29XV50**	—	—
Shock-Absorbing Medium-Duty								
Firm Polyurethane Tread								
6"	1000 lb	7 ½"	4" x 4 ½"	B	RWM	**29XV44**	**29XV43**	—
8"	1200 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	**53CG70**	**53CG71**	—
Heavy-Duty								
Firm Polyurethane Tread								
8"	1500 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	**29XW14**	**29XW13**	—
	2000 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	**53CG69**	—	—
Hard Elastomer Tread								
8"	1800 lb	10 ⅛"	4 ½" x 6 ½"	A	RWM	**29XW12**	**29XW11**	—

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Medium-Duty Swivel Caster 3G203

HAMILTON®

Shock-Absorbing Plate Casters

Casters have spring-loaded suspensions that absorb shock and vibration when rolling over obstacles or rough terrain, and help prevent damage to equipment as well as any shock- or vibration-sensitive cargo that is being transported. Suspensions can be adjusted to achieve the smoothest ride possible. **Quiet-roll** casters provide smooth, quiet rolling in areas where noise levels are a concern. **Medium-duty** casters are used on carts, trucks, racks, and trolleys that will be moving moderately heavy loads in manufacturing plants, laboratories, and computer and networking rooms. **Heavy-duty** casters can withstand heavier loads and more frequent use than medium-duty casters. Used on racks, trolleys, and fixtures in manufacturing plants, computer and networking rooms, sound and lighting applications, and other industrial settings. **Extra-heavy-duty** casters can bear very heavy loads and withstand more shock and impact than heavy-duty casters. Used on airport ground-support equipment, assembly line dollies, and production equipment in manufacturing plants and other industrial environments.

Quiet-Roll Rigid Caster 6JY71

Heavy-Duty Swivel Caster w/ Brake 490V41

Plate A

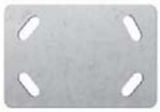


Plate B

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Quiet-Roll									
Firm Polyurethane Tread									
4"	165 lb	6 5/16"	2 ⅞" x 2 ⅞"	D	Precision Ball	—	—	—	**6JY69**
6"	550 lb	9 1/16"	3 ¾" x 3 ¾"	D		—	—	**6JY71**	**6JY75**
8"	550 lb	10 ¾"	3 ¾" x 3 ¾"	D		—	—	**6JY79**	**6JY83**
Medium-Duty									
Soft Rubber Tread									
3 15/16"	440 lb	6 11/16"		D	Precision Ball	—	**490W26**	—	—
6"	410 lb	8 ½"	4" x 4 ½"	B	Roller	—	—	**488U05**	—
	500 lb	8 ½"	4" x 4 ½"	B		—	**3G203**	—	—
Firm Polyurethane Tread									
6"	500 lb	8 ½"	4" x 4 ½"	B	Roller	—	**487H26**	**454Y23**	—
8"	500 lb	10 ½"	4" x 4 ½"	B		—	**483N51**	**483N50**	—
Heavy-Duty									
Firm Polyurethane Tread									
6"	1100 lb	9 ½"	4 ½" x 6 ¼"	A	Precision Ball	—	**483N41**	—	—
8"	1760 lb	10 7/16"	4 ½" x 6 ¼"	A		—	—	—	**490V41**
Extra-Heavy-Duty									
Firm Polyurethane Tread									
6"	1630 lb	11 ¼"	5 ¼" x 7 ¼"	A	Precision Ball	Hamilton	**1VHV6**	**1VHV7**	—
8"	1630 lb	12 ¼"	5 ¼" x 7 ¼"	A		Hamilton	**1VHV8**	**1VHV9**	—

See page 1216 for tread info.

Sawtooth Tread, Swivel 36T707

Ribbed Tread, Rigid 454N15

Centipede Tread, Swivel w/ Brake 1ULG8

HAMILTON

Pneumatic-Wheel Plate Casters

Casters have air-filled wheels that absorb shock and vibration and reduce noise as they roll. Suitable for moving fragile or vibration-sensitive loads on equipment that is traveling over rough or uneven surfaces in indoor and outdoor areas. All swivel casters have a double-ball bearing raceway. Casters with a brake have an over-the-wheel strap brake. **Medium-duty** casters are used on carts, trucks, and equipment in warehouses, transportation facilities, lawn and garden centers, and hospitality sites. **Extra-heavy-duty** casters bear heavier loads, withstand rougher terrain, and absorb more shock and impact than medium-duty casters. Used on heavy carts, trucks, and equipment in towing applications, such as aerospace ground support, airport baggage trolleys, and manufacturing and maintenance operations.

Plate A

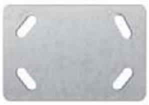


Plate B

Plate C

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Medium-Duty									
6⅛"	200 lb	7 ½"	2¾" x 3⅝"	C	Centipede	—	**1ULH1**	**1ULH3**	**1ULH2** *
	200 lb	7 ½"	4" x 4½"	B	Centipede	—	—	**1ULG9**	**1ULG8** *
6 5/16"	200 lb	7 ½"	2¾" x 3¾"	C	Sawtooth	—	**32J680**	—	—
7⅞"	165 lb	9 ¼"	4 5/16" x 5½"	C	Ribbed	—	**454N13**	**454N15**	**454N14** *
8"	210 lb	10 ⅛"	4" x 4½"	B	Diamond	—	**455U48**	**455U49**	—
8 11/16"	220 lb	10"	4 5/16" x 5½"	C	Centipede	—	**454N65**	**454N66**	—
	220 lb	10"	4 5/16" x 5½"	C	Ribbed	—	**483N28**	—	**490W25** *
8¾"	80 lb	10 ⅛"	4" x 4½"	B	Sawtooth	—	—	—	**32J673**
	220 lb	10 ⅛"	4" x 4½"	B	Sawtooth	—	**32J672**	**32J674**	—
9"	295 lb	11"	4" x 4½"	B	Sawtooth	—	—	—	**5VP73**
	300 lb	10"	4" x 4½"	B	Sawtooth	—	**1ULH4**	**1ULH6**	**1ULH5**
10"	350 lb	12 ½"	4" x 4½"	B	Sawtooth	—	**3G149**	**3G148**	—
10¼"	330 lb	12 ⅛"	4¾" x 8 11/16"	D	Diamond	—	—	**489A98**	—
	330 lb	12 ⅛"	6⅞" x 6⅞"	D	Diamond	—	**489C01**	—	—
	550 lb	12 ⅛"	6⅞" x 6⅞"	D	Ribbed	—	—	—	**454Y04** *
	550 lb	12 ⅛"	6⅞" x 6⅞"	D	Diamond	—	**22N203**	—	**22N205** *
	550 lb	12 ⅛"	4¾" x 8 11/16"	D	Diamond	—	—	**22N204**	—
10⅝"	350 lb	11 ⅞"	4" x 4½"	B	Sawtooth	—	**1ULH7**	**1ULH8**	—
	350 lb	12 ⅞"	4" x 4½"	B	Sawtooth	—	**32J675**	**32J676**	—
Extra-Heavy-Duty									
8"	330 lb	10 ⅝"	4½" x 6½"	A	Sawtooth	Hamilton	**36T705**	**36T702**	**36T698** †
10"	480 lb	12 ½"	4½" x 6½"	A	Sawtooth	Hamilton	**36T706**	**36T703**	**36T699** †
12"	625 lb	15 ½"	6⅛" x 7½"	D	Sawtooth	Hamilton	**36T707**	**36T704**	**36T701** †
	1210 lb	14 1/16"	6 5/16" x 7⅞"	D	Diamond	—	—	**454N69**	—
15¾"	770 lb	18 ½"	6 5/16" x 7⅞"	D	Diamond	—	—	**454M98**	—
16"	960 lb	18 ¾"	6⅛" x 7½"	D	Sawtooth	Hamilton	**5VG81**	**5VF83**	—
	1220 lb	18 ¾"	6⅛" x 7½"	D	Sawtooth	Hamilton	**5VG83**	**5VF84**	—

** With total lock. † With four-position swivel lock. ** Mounting plate size based on swivel caster.*
See Grainger.com® for exact dimensions.

Swivel Caster 404L09

Plate B

Plate D

Semipneumatic-Wheel Plate Casters

GREENLEE
A Textron Company

Casters have semipneumatic wheels that absorb shock and vibration and will not go flat if they are punctured. Used on carts, trucks, and similar equipment that will be moving fragile or vibration-sensitive loads over rough or uneven surfaces in areas with sharp debris, such as warehouses, transportation facilities, lawn and garden centers, and hospitality sites.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.
6 ¼"	200 lb	7 ⅜"	4" x 4½"	B	Ribbed	—	**3G151**	**3G150**
	200 lb	7 ⅜"	5" x 5½"	D	Ribbed	—	**404L09**	**3G116**
8"	350 lb	10"	5" x 5½"	D	Ribbed	—	**3G119**	**3G118**
10"	650 lb	12"	4" x 4½"	B	Ribbed	Greenlee	**35MM23**	**35MM22**

Rigid Caster 38ER62

Plate B

Plate C

Plate D

MARASTAR. HAMILTON

Flat-Free-Wheel Plate Casters

Casters have solid wheels that absorb more shock and vibration than semipneumatic wheels and will not go flat if punctured. Suitable for moving fragile or vibration-sensitive loads and for traveling over rough or uneven surfaces in areas with sharp debris. **Medium-duty** casters can bear moderately heavy loads and are used on carts, trucks, and similar equipment in warehouses, transportation facilities, lawn and garden centers, and hospitality sites. **Heavy-duty** casters can bear heavy loads and are used on heavy carts or trucks in warehouses, transportation facilities, and manufacturing sites. **Extra-heavy-duty** casters can bear very heavy loads and are used on heavy carts, trucks, and equipment in towing applications for aerospace ground support, shipbuilding, automotive manufacturing, and maintenance operations.

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size **	Mounting Plate Bolt Hole Pattern	Tread	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Medium-Duty									
Soft Rubber Tread									
6"	250 lb	7 ¼"	4" x 4 ½"	B	Centipede	—	**437V23**	**437V25**	**437V24**
8"	280 lb	9 ½"	4" x 4 ½"	B	Centipede	—	—	**426A87**	**426A86**
	400 lb	9 ½"	4" x 4 ½"	B	Centipede	—	**426A85**	—	—
10 ¼"	440 lb	12 ⅛"	6⅞" x 6⅞"	D	Smooth	—	**22N206**	**22N207**	**22N208** *
Soft Polyurethane Tread									
8"	275 lb	9 ⅞"	4" x 4½"	B	Sawtooth	Marastar	**38ER63**	**38ER62**	—
8 ½"	275 lb	9 ⅞"	4½" x 4"	B	Sawtooth	—	**53CM44**	**53CM43**	—
10"	300 lb	11 ⅞"	4" x 4½"	B	Sawtooth	Marastar	**38ER65**	**38ER64**	—
10 ¼"	300 lb	11 ⅞"	4½" x 4"	B	Sawtooth	—	**53CM46**	**53CM45**	—
Heavy-Duty									
Soft Rubber Tread									
7 15/16"	770 lb	9 5/16"	4 5/16" x 5 ½"	C	Smooth	—	**487G18**	—	**487G19** *
9 13/16"	770 lb	11 ⅝"	6 13/16" x 6 13/16"	D	Smooth	—	—	—	**487G16** *
	990 lb	11 ⅝"	6⅞" x 6⅞"	D	Ribbed	—	**22N199**	**22N201**	**22N202** *
Extra-Heavy-Duty									
Soft Rubber Tread									
16"	960 lb	18 ¾"	6 ⅛" x 7 ½"	D	Sawtooth	Hamilton	—	—	**35W143**
	2900 lb	18 ½"	6⅛" x 7½"	D	Ribbed	Hamilton	**6AZP3**	**6AZP5**	**6AZP4** ‡

** With total lock. ‡ With four-position swivel lock and brake. ** Mounting plate size based on swivel caster.*
See Grainger.com® for exact dimensions.

Leveling Plate Casters

Used on equipment that will be moved often but must stay stationary when in use. Each caster has a leveling pad that can be raised to allow it to roll and lowered to prevent it from rolling, and a thumbwheel adjusts the pad's height to level the equipment. All are swivel casters that can rotate 360°, and have impact-resistant nylon wheels. **General purpose** casters are used on furniture and equipment in high-automation manufacturing, medical, retail, and laboratory settings. **High-adjustability extended-stem** casters have long leveling stems and can be adjusted to a greater range of heights than other leveling plate casters to accommodate very uneven floors or raise furniture or equipment high off the ground in areas such as food-processing plants, medical settings, pharmaceutical facilities, packaging and conveying operations, and laboratories. **Quick-engage pedal-style** casters have a foot pedal that users step on to quickly start or stop the casters from rolling. Used on reconfigurable machinery and production lines in heavy manufacturing and industrial applications.

Note: For safety, working load cap. for 4-caster installations should not exceed 2 x individual caster load rating. Example: Working load cap. is 1100 lb. for 4 of 24WK16 (load rating is 550 lb. each).

Plate D

General Purpose 24WK16

High-Adjustablilty Extended-Stem 34RU55

Quick-Engage Pedal-Style 489A92

Wheel Dia.	Load Rating	Mounting Height	Maximum Leveling Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
General Purpose						
2"	275 lb	3 1⁄4"	3 11⁄16"	27⁄8" x 27⁄8"	D	**34RU52**
	550 lb	3 1⁄4"	3 7⁄8"	27⁄8" x 27⁄8"	D	**24WK16**
2 1⁄2"	550 lb	4 3⁄32"	4 11⁄16"	39⁄16" x 39⁄16"	D	**34RU53**
	1100 lb	4 1⁄8"	4 9⁄16"	3 35⁄64" x 3 35⁄64"	D	**489A81**
2 7⁄8"	2200 lb	4 13⁄16"	5 1⁄4"	33⁄4" x 33⁄4"	D	**454N23**
3"	880 lb	4 3⁄4"	5 3⁄16"	33⁄4" x 33⁄4"	D	**34RU54**
3 1⁄2"	4400 lb	5 1⁄8"	5 15⁄16"	315⁄16" x 311⁄32"	D	**454N24**
High-Adjustability Extended-Stem						
2"	220 lb	2 7⁄8"	4 13⁄16"	27⁄8" x 27⁄8"	D	**34RU55**
3"	1100 lb	4 13⁄32"	6 3⁄4"	33⁄4" x 33⁄4"	D	**34RU57**
Quick-Engage Pedal-Style						
3"	440 lb	4 11⁄16"	4 3⁄4"		D	**489A92**

V-Groove Swivel Caster 1NWB2

Single-Flange Rigid Caster 5VG40

Dual-Flange Rigid Caster 5VG05

Plate A

Plate B

Plate C

Plate D

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Brand	SWIVEL CASTER Item No.	RIGID CASTER Item No.
V-Groove								
Firm Polyurethane Tread								
4"	350 lb	5 5⁄8"	4" x 41⁄2"	B	Roller Bearings	—	—	**1NWC9**
Hard Nylon Tread								
5"	1540 lb	6 1⁄2"	4" x 41⁄2"	B	Precision Ball Bearings	—	**454M81**	—
6"	880 lb	7 1⁄2"	4" x 41⁄2"	B	Precision Ball Bearings	—	**454M82**	—
Extra-Hard Iron Tread								
4"	700 lb	5 5⁄8"	4" x 41⁄2"	B	Roller Bearings	—	**490V85**	**490V66**
	800 lb	5 5⁄8"	4" x 41⁄2"	B	Roller Bearings	—	**1NWB2**	**1NWB3**
	800 lb	5 5⁄8"	4" x 41⁄2"	B	Roller Bearings	—	**1NWC2**	**1NWC3**
	800 lb	5 5⁄8"	41⁄2" x 61⁄4"	A	Roller Bearings	—	**1NWD5**	**1NWD6**
5"	800 lb	6 1⁄2"	41⁄2" x 61⁄4"	A	Roller Bearings	—	—	**489C14**
	900 lb	6 1⁄2"	4" x 41⁄2"	B	Roller Bearings	—	—	**1NWC5**
	1000 lb	6 1⁄2"	4" x 41⁄2"	B	Roller Bearings	—	**490V86**	—
6"	800 lb	6 1⁄2"	41⁄2" x 61⁄4"	B	Roller Bearings	—	**490V87**	—
	1000 lb	7 1⁄2"	4" x 41⁄2"	B	Roller Bearings	—	**1NWC6**	**1NWC7**
	1000 lb	7 1⁄2"	41⁄2" x 61⁄4"	A	Roller Bearings	—	—	**1NWE1**
	1000 lb	7 1⁄2"	5" x 51⁄2"	D	Roller Bearings	—	**489C12**	**489C13**
	1000 lb	8"	41⁄2" x 61⁄4"	A	Roller Bearings	—	**489C16**	—
	1200 lb	7 1⁄2"	4" x 41⁄2"	B	Roller Bearings	—	—	**490V68**
	1200 lb	7 1⁄2"	5" x 51⁄2"	D	Roller Bearings	—	—	**1NWB5**
	2000 lb	7 1⁄2"	41⁄2" x 61⁄4"	A	Roller Bearings	—	—	**1NWE3**
	2500 lb	8"	51⁄4" x 71⁄4"	A	Roller Bearings	—	—	**1NWE7**
8"	1200 lb	10 1⁄2"	41⁄2" x 61⁄4"	A	Roller Bearings	—	—	**489C17**
	2000 lb	10 5⁄16"	41⁄2" x 61⁄4"	A	Roller Bearings	—	—	**1NWE5**
10"	3000 lb	12 1⁄2"	51⁄4" x 71⁄4"	A	Roller Bearings	—	—	**1NWF2**
Extra-Hard Stainless Steel Tread								
4"	800 lb	6"	4" x 41⁄2"	B	Precision Ball Bearings	—	—	**1UBL6**
6"	800 lb	7 1⁄2"	33⁄4" x 41⁄2"	B	Precision Ball Bearings	Hamilton	—	**1UBL8**
Extra-Hard Steel Tread								
5"	1250 lb	6 1⁄2"	4" x 41⁄2"	B	Precision Ball Bearings	—	—	**454M85**
6"	1760 lb	7 3⁄4"	45⁄16" x 59⁄16"	C	Precision Ball Bearings	—	**454M84**	—
	1760 lb	7 3⁄4"	41⁄2" x 61⁄4"	A	Precision Ball Bearings	—	—	**455T91**
	2500 lb	8"	51⁄4" x 71⁄4"	A	Roller Bearings	Hamilton	—	**23DA06**
	4500 lb	8 1⁄2"	61⁄2" x 71⁄2"	B	Roller Bearings	Hamilton	**52YU11**	**52YU12**
8"	1650 lb	9 5⁄8"	45⁄16" x 59⁄16"	C	Precision Ball Bearings	—	—	**489A50**
	2000 lb	9 5⁄8"	45⁄16" x 59⁄16"	C	Precision Ball Bearings	—	**454M83**	—
	5000 lb	10 1⁄2"	61⁄2" x 71⁄2"	B	Roller Bearings	Hamilton	**52YU13**	**52YU14**
	10000 lb	10 1⁄2"	61⁄2" x 71⁄2"	B	Tapered Roller Bearings	Hamilton	**52YU15**	**52YU16**
10"	3000 lb	12 1⁄2"	51⁄4" x 71⁄4"	A	Roller Bearings	Hamilton	**52YU09**	**52YU10**
Single-Flange								
Extra-Hard Iron Tread								
3 1⁄2"	1400 lb	5 3⁄8"	41⁄2" x 61⁄2"	A	Roller Bearings	Hamilton	—	**5VG40**
4 15⁄16"	1500 lb	6 1⁄8"	41⁄2" x 61⁄2"	A	Roller Bearings	Hamilton	—	**5VG41**
6 1⁄8"	2000 lb	8"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG08**
8"	3000 lb	9 1⁄2"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG09**
Extra-Hard Steel Tread								
4 1⁄2"	3000 lb	7 1⁄4"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG04**
5"	4300 lb	8"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG06**
Dual-Flange								
Extra-Hard Iron Tread								
6"	2500 lb	8"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG07**
Extra-Hard Steel Tread								
5"	4200 lb	8"	51⁄2" x 71⁄2"	D	Roller Bearings	Hamilton	—	**5VG05**

HAMILTON®

Track-Wheel Plate Casters

Casters have wheels that fit into compatible steel tracks or rails. Mount to containers, racks, carts, and other equipment and provide precise control over movement and alignment when moving the equipment between two locations, such as from one machine to another, into and out of an oven, or between points on an assembly line. All swivel casters have double-ball hardened raceways. **V-groove** have wheels with a V-shaped tread that mates with a compatible angle-iron track. They have flat edges and can roll on flat surfaces. **Single-flange** have wheels with one flange that guides them along a flat track or rail. They create less friction between the wheel and the track or rail than dual-flange track-wheel casters. **Dual-flange** have wheels with two flanges that guide them along a flat track or rail. They maintain their alignment better than single-flange track wheels in applications with impact loads, debris, or obstructions.

Inverted-Mount Plate Casters

Casters are installed with their wheels pointing up to create a low-friction surface for moving bulky and heavy loads. Groups of these casters are mounted in floor recesses in dock areas, airport cargo-loading areas, or aircraft to reduce the effort it takes to move and manuever large cargo containers on the floor. Can also be mounted on conveyors or portable dollies and fixtures that are used for handling large containers to provide multidirectional movement in transition, infeed, or outfeed sections. All are swivel casters and can rotate 360°, and have precision ball bearings. **5VF59** has a foot guard that prevents toes and feet from slipping into the caster's mounting recesses and causing falls or injuries.

Plate A

Plate D

Plate F

Plate H

General Purpose 4W782

Wheel Dia.	Load Rating	Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
General Purpose					
2 1⁄4"	440 lb	3 3⁄4"	2 3⁄4" x 4 3⁄8"	A	**455T85**
	450 lb	3 3⁄4"	3 1⁄8" x 4 7⁄16"	H	**1F146**
2 5⁄16"	450 lb	3 3⁄4"	2" x 2 3⁄4"	F	**4W782**
2 3⁄4"	450 lb	4 1⁄16"	3 1⁄8" x 4 7⁄16"	H	**1F147**
With Foot Guard					
2 1⁄4"	440 lb	3 3⁄4"	3 1⁄16" x 4 1⁄8"	D	**5VF59**

With Foot Guard 5VF59

For information on selecting casters, see page 1191.

General Purpose Swivel w/Brake 490W37

Extended-Stem 400K80

Threaded Stem Casters

Stem casters screw into a hole, bracket, insert, or socket and are typically used to add casters on equipment where there is not enough room to attach a plate caster's mounting plate. All are swivel casters and can rotate 360°. **General purpose** casters are used on carts, furniture, storage cabinets, storage bins, display stands, appliances, retail fixtures, and other equipment in a wide variety of settings. **Extended-stem casters** are used on ladders, platforms, and similar equipment in areas such as warehouses, stockrooms, and loading docks. Extra-long threaded stem with a spring-loaded assembly allows equipment to lower to keep it stationary when in use, and raises the equipment when not in use so it can roll.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
General Purpose					
Thermoplastic Rubber Tread					
3"	110 lb	3 1/2"	3/18"-16 x 1 1/2"	—	**49H591**
	210 lb	3 13/16"	3/8"-16 x 1"	**32J866**	—
	210 lb	3 13/16"	1/2"-13 x 1 1/2"	**32J890**	—
4"	300 lb	4 13/16"	3/8"-16 x 1"	**32J867**	—
5"	325 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J892**	—
	325 lb	6"	1/2"-13 x 1 1/2"	**20TM56**	—
Rubber Tread					
3"	100 lb	3 5/8"	3/8"-16 x 1 1/2"	**32J787**	—
	150 lb	3 13/16"	3/8"-16 x 1"	**32J860**	—
	175 lb	4 1/8"	1/2"-13 x 1 1/2"	—	**489C42**
3 1/2"	250 lb	4 9/16"	1/2"-13 x 3/4"	**488U06**	—
4"	115 lb	4 13/16"	7/16" x 1 1/2"	**32J986**	—
	130 lb	4 7/8"	7/16"-14 x 1 1/2"	**487G61**	—
	170 lb	4 13/16"	3/8"-16 x 1"	**32J861**	—
	170 lb	4 13/16"	7/16"-14 x 1 1/2"	**32J967**	—
	170 lb	4 13/16"	1/2"-13 x 1"	**32J873**	—
	170 lb	4 13/16"	1/2"-13 x 1 1/2"	**32J970**	—
	240 lb	5"	1/2"-13 x 2 5/8"	—	**489C28**
	300 lb	5"	1/2"-13 x 1 1/2"	—	**490W37**
5"	125 lb	5 13/16"	3/8"-16 x 1 1/2"	**32J789**	—
	125 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J953**	—
	200 lb	5 13/16"	3/8"-16 x 1"	**32J862**	—
	200 lb	5 13/16"	7/16"-14 x 1 1/2"	**32J968**	—
	200 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J971**	—
	325 lb	6 1/16"	1/2"-13 x 1 1/2"	—	**490W38**
6"	280 lb	7 1/8"	5/8"-11 x 1 1/4"	**32J978**	—
Polyurethane Tread					
3"	120 lb	3 1/2"	3/8"-16 x 1"	**487G54**	**487H16**
	210 lb	3 13/16"	3/8"-16 x 1"	**32J869**	—
	210 lb	3 13/16"	7/16"-14 x 1 1/2"	**32J887**	—
	210 lb	3 13/16"	1/2"-13 x 1 1/2"	**32J893**	—
	210 lb	3 13/16"	1/2"-13 x 1"	**32J878**	—
4"	130 lb	4 7/8"	5/16"-18 x 1"	**487H20**	**487H19**
	130 lb	4 7/8"	3/8"-16 x 1"	**487H21**	**487H22**
	150 lb	4 13/16"	3/8"-16 x 1 1/2"	**32J806**	—
	150 lb	4 13/16"	1/2"-13 x 1 1/2"	**32J803**	—
	275 lb	4 13/16"	3/8"-16 x 1"	**32J870**	—
	275 lb	4 13/16"	7/16"-14 x 1 1/2"	**32J888**	—
	275 lb	4 13/16"	1/2"-13 x 3/4"	**32J885**	—
	275 lb	4 13/16"	1/2"-13 x 1"	**32J879**	—
	275 lb	4 13/16"	1/2"-13 x 1 1/2"	**32J894**	—
5"	300 lb	5 13/16"	3/8"-16 x 1"	**32J871**	—
	300 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J895**	—
	300 lb	5 13/16"	1/2"-13 x 1"	**32J880**	—
Polyolefin Tread					
3"	125 lb	3 5/8"	3/8"-16 x 1 1/2"	**20TM42**	—
	125 lb	3 5/8"	7/16"-14 x 1 1/2"	**32J959**	—
	210 lb	3 13/16"	3/8"-16 x 1"	**32J863**	—
	210 lb	3 13/16"	7/16"-14 x 1 1/2"	**32J988**	—
	210 lb	3 13/16"	1/2"-13 x 1 1/2"	**429H12**	—
	210 lb	3 13/16"	1/2"-13 x 1"	**32J875**	—
	350 lb	3 3/4"	1/2"-13 x 3/4"	**32J896**	—
	350 lb	3 7/8"	3/4"-10 x 1"	**32J897**	—
4"	130 lb	4 7/8"	7/16"-14 x 1 1/2"	**487G57**	—
	150 lb	4 13/16"	3/8"-16 x 1 1/2"	**20TM46**	—
	150 lb	4 13/16"	1/2"-13 x 1 1/2"	**32J964**	—
	275 lb	4 13/16"	3/8"-16 x 1"	**32J864**	—
	275 lb	4 13/16"	7/16"-14 x 1 1/2"	**32J989**	—
	275 lb	4 13/16"	1/2"-13 x 1 1/2"	**32J974**	—
	275 lb	4 13/16"	1/2"-13 x 3/4"	**32J882**	—
	275 lb	4 13/16"	1/2"-13 x 1"	**32J876**	—
	275 lb	5"	3/8"-16 x 1 1/2"	**20TM48**	—
5"	150 lb	5 13/16"	3/8"-16 x 1 1/2"	**32J792**	—
	150 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J965**	—
	300 lb	5 13/16"	3/8"-16 x 1"	**32J865**	—
	300 lb	5 13/16"	7/16"-14 x 1 1/2"	**32J972**	—
	300 lb	5 13/16"	1/2"-13 x 1"	**32J877**	—
	300 lb	5 13/16"	1/2"-13 x 1 1/2"	**32J975**	—
	300 lb	5 13/16"	1/2"-13 x 3/4"	**32J883**	—
Phenolic Tread					
2"	200 lb	2 13/16"	1/2"-13 x 1 1/2"	—	**19MP15**
3"	350 lb	3 3/4"	1/2"-13 x 2 1/2"	—	**32J976**
Nylon Tread					
3"	500 lb	3 15/16"	1/2"-13 x 1 1/2"	**416P08**	—
Extended-Stem for Ladders					
Rubber Tread					
3"	100 lb	3 23/32"	5/16"-18 x 4 49/64"	**400K80**	—
Polyolefin Tread					
2"	75 lb	2 1/2"	5/16"-18 x 4 25/32"	**32J912**	—
3"	100 lb	3 11/16"	5/16"-18 x 4 25/32"	**416P14**	—

454Y30

Maintenance-Free Expanding Stem Casters

Expanding stem casters can be installed into structural tubing with a range of diameters and don't need to be secured with bolts or pins. A knurled nut can be tightened to expand the rubber sleeve on the caster's stem until it is large enough to firmly grip the inside of the tubing. Casters have sealed precision ball bearings that do not need to be routinely greased, which minimizes maintenance and extends casters' life. Lightweight nylon frames resist chemicals and corrosion, and thread guards prevent dirt and debris from entering the casters and damaging them. Suitable for carts, racks, and equipment in medical facilities, pharmacies, laboratories, food-service areas, and other areas where equipment will be moved frequently and may be exposed to water, chemicals, and debris. All are swivel casters that can rotate 360°, and have a thermoplastic rubber tread.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Item No.
4 15/16"	240 lb	6 7/16"	63/64" x 2 35/64"	**454Y31**
5"	240 lb	6 7/16"	1/2"-13 x 2 35/64"	**454Y30**

Ball Wheel 19YX24

Single Wheel 19YX28

Grip-Neck Stem Casters

Install into a specially designed socket that grips the stem head for a secure hold. Used on office furniture, cabinetry, retail displays, and other light-duty equipment made from wood or metal tubing that have these special sockets. **Ball-wheel** casters have a spherical wheel covered by a hood that hides dirt and scuffs. **Single-wheel** casters each have one wheel.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Frame Finish	Item No.
Ball Wheel Grip-Neck Stem Casters					
Polyolefin Tread					
2"	75 lb	2 37/64"	5/16" x 1 1/2"	Polished Brass	**19YX24**
	75 lb	2 37/64"	5/16" x 1 1/2"	Black Oxide	**19YX25**
	80 lb	2 5/8"	5/16" x 1 1/2"	Bright Brass	**454N46**
	80 lb	2 5/8"	5/16" x 1 1/2"	Chrome Plated	**454N47**
Single Wheel Grip-Neck Stem Casters					
Rubber Tread					
2"	75 lb	2 1/2"	5/16" x 1 1/2"	Brass Plated	**3A776**
	75 lb	2 1/2"	5/16" x 1 1/2"	Nickel Plated	**19YX28**
2 1/2"	75 lb	3"	5/16" x 1 1/2"	Antique Copper Plated	**2G002**
	75 lb	3 1/16"	5/16" x 1 1/2"	Antique Brass	**429H15**

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
General Purpose						
Thermoplastic Rubber Tread						
2"	75 lb	2 1/2"	7/16" x 1 3/8"	Plain Bearings	**400K81**	—
3"	210 lb	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	**32J856**	—
Rubber Tread						
2"	90 lb	2 5/8"	7/16" x 7/8"	Plain Bearings	**490W47**	**490W48**
	90 lb	2 5/8"	7/16" x 1 7/16"	Plain Bearings	**490W45**	**490W46**
2 1/2"	75 lb	3 1/6"	7/16" x 7/8"	Plain Bearings	**416P12**	—
	95 lb	3 1/8"	7/16" x 1 7/16"	Plain Bearings	**490W49**	**490W50**
3"	120 lb	3 1/2"	7/16" x 7/8"	Plain Bearings	**490W51**	—
	150 lb	3 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J850**	—
	175 lb	3 5/8"	7/16" x 1 7/8"	Plain Bearings	**1G009**	—
	200 lb	4 1/4"	27/32" x 2 7/32"	Delrin Bearings	**5GPL9**	**5GPL8**
	200 lb	4 1/8"	7/16" x 1 7/16"	Precision Ball Bearings	—	**490W35**
4"	115 lb	4 13/16"	7/16" x 1 29/32"	Plain Bearings	**32J794**	—
	115 lb	4 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J993**	—
	115 lb	4 13/16"	13/16" x 1 3/4"	Plain Bearings	**32J938**	—
	170 lb	4 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J851**	—
	240 lb	5"	7/16" x 1 7/16"	Delrin Bearings	—	**489C41**
	300 lb	5"	7/16" x 1 7/16"	Precision Ball Bearings	**490W36**	—
5"	125 lb	5 13/16"	7/16" x 1 29/32"	Plain Bearings	**32J795**	—
	125 lb	5 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J994**	—
	200 lb	5 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J852**	—
	280 lb	6"	27/32" x 2 5/16"	Delrin Bearings	**1ZTJ1**	—
	280 lb	6"	27/32" x 2 7/32"	Delrin Bearings	—	**1ZTJ2**
Polyurethane Tread						
3"	120 lb	3 1/2"	7/16" x 1 7/16"	Plain Bearings	**487G53**	—
	125 lb	3 5/8"	7/16" x 1 29/32"	Plain Bearings	**32J808**	—
	125 lb	3 5/8"	7/16" x 1 3/8"	Plain Bearings	**32J799**	—
	135 lb	3 5/8"	7/16" x 1 3/8"	Precision Ball Bearings	**400K82**	—
	210 lb	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	**32J857**	—
4"	130 lb	4 7/8"	7/16" x 7/8"	Plain Bearings	**487H17**	**487H18**
	140 lb	4 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J801**	—
	150 lb	4 3/4"	7/16" x 1 29/32"	Plain Bearings	**20TM18**	—
	275 lb	5"	7/16" x 1 7/16"	Delrin Bearings	**32J858**	—
5"	145 lb	5 13/16"	7/16" x 1 29/32"	Plain Bearings	**32J810**	—
	300 lb	6 1/16"	7/8" x 2"	Precision Ball Bearings	**454Y14**	—
	300 lb	5 13/16"	15/32" x 1 3/8"	Delrin Bearings	**32J859**	—
Polyolefin Tread						
3"	125 lb	3 5/8"	7/16" x 1 29/32"	Plain Bearings	**32J796**	—
	210 lb	3 13/16"	7/16" x 1 3/8"	Delrin Bearings	**32J853**	—
4"	130 lb	4 7/8"	7/16" x 1 7/16"	Plain Bearings	**487G56**	—
	150 lb	4 13/16"	7/16" x 1 3/8"	Plain Bearings	**32J956**	—
	275 lb	4 13/16"	7/16" x 1 3/8"	Delrin Bearings	**32J854**	—
5"	150 lb	5 13/16"	7/16" x 1 29/32"	Plain Bearings	**32J798**	—
	300 lb	5 13/16"	7/16" x 1 3/8"	Delrin Bearings	**32J855**	—
Wall-Protecting						
Polyurethane Tread						
5"	300 lb	6 1/16"	7/8" x 2"	Delrin Bearings	**483N56**	—

General Purpose
490W49

Wall-Protecting
483N56

Friction-Ring Stem Casters

Caster stem presses into an appropriately sized hole or socket in tubes, pipes, wood, or brackets on furniture and equipment. A spring ring at the end of the stem expands to hold the caster in place once it's installed. Require minimal or no tools for installation. Suitable for applications where casters need to be replaced frequently. All are swivel casters that can rotate 360°. **General purpose** are for use on carts, furniture, storage cabinets, storage bins, display stands, retail fixtures, and other equipment in a wide variety of settings. **Wall-protecting** have rubber rings that protect walls and other surfaces from damage if the casters collide with them.

Bolt-In Stem Casters

Casters have a round or square stem that fits into structural framing made of metal tubing or angle iron. Caster is held in place with a bolt or pin that is installed into cross-drilled mounting holes in the framing and the caster's stem. **Round stem** fit into round metal tubing on light-duty scaffolding, work platforms, workbenches, and tables. **Square stem** fit into square or octagonal metal tubing or angle iron on carts, racks, and similar equipment.

Wheel Dia.	Load Rating	Mounting Height	Stem Dia.	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Round Stem						
Rubber Tread						
5"	150 lb	6 1/16"	1"	Delrin Bearings	—	**487G62** *
6"	500 lb	7 11/32"	1 3/8"	Roller Bearings	—	**5VP46** *
8"	500 lb	9"	1 3/8"	Roller Bearings	—	**5VP47** *
Polyurethane Tread						
10"	1350 lb	12 1/4"	1 3/8"	Roller Bearings	—	**45JR96**
Nythane Tread						
5"	1320 lb	6 15/16"	1 1/2"	Plain Bearings	—	**1XGJ6** *
6"	1320 lb	7 1/2"	1 1/2"	Plain Bearings	—	**1XGJ7**
8"	1320 lb	9 1/2"	1 1/2"	Plain Bearings	—	**1XGJ8**
Square Stem						
Rubber Tread						
3"	100 lb	3 5/8"	3/4"	Plain Bearings	**32J903**	—
4"	115 lb	4 13/16"	3/4"	Plain Bearings	**32J998**	—
5"	125 lb	5 27/32"	3/4"	Plain Bearings	**20TM38**	—
	125 lb	5 13/16"	3/4"	Plain Bearings	**32J999**	—
	150 lb	5 13/16"	3/4"	Plain Bearings	**32J905**	—
	240 lb	6 5/32"	1 1/4"	Plain Bearings	—	**20TM40**
Polyurethane Tread						
4"	275 lb	4 13/16"	3/4"	Delrin Bearings	**32J899**	—
5"	300 lb	6"	3/4"	Delrin Bearings	**32J901**	—
	300 lb	6 1/64"	3/4"	Delrin Bearings	**20TM37**	—
	350 lb	5 7/8"	3/4"	Precision Ball Bearings	**5VN79**	—

*** With total lock.***

Round Stem w/ Total Lock
487G62

Square Stem
32J899

Round Stem
1XGJ6

For information on selecting casters, see page 1191.

Swivel Caster w/Brake 26Y501

Low-Profile Easy-Turn Stem Casters

Used on equipment that must be kept low to the ground to maximize its stability while rolling, such as business machines, vending machines, store fixtures, lab equipment, refrigeration units, dollies, and server cabinets. Eash caster has two small wheels mounted on one axle, which reduces friction between the floor and the wheels and allows the casters to swivel more easily than single-wheel casters. All are swivel casters and can rotate 360°.

				SWIVEL CASTER		SWIVEL CASTER WITH BRAKE	
Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Friction-Ring Stem							
Rubber Tread with Plain Wheel Bearing							
2"	200 lb	2 ¾"	7⁄16" x 1½"	**26Y503**	1	—	
Nylon Tread with Plain Wheel Bearing							
2"	110 lb	2 9⁄32"	7⁄16" x 7⁄8"	**416P10**	5	—	
Threaded Stem							
Rubber Tread with Plain Wheel Bearing							
2"	200 lb	2 ¾"	½"-13 x 1½"	—		**26Y501**	1
3"	350 lb	3 ¾"	½"-13 x 1½"	**26Y502**	1	—	

Furniture Stem Casters

BEVCO

Install on chairs, carts, fixtures, and similar items in offices, retail settings, and other areas where they won't be exposed to heavy loads, chemicals, liquids, or high temperatures. Soft tread casters are less likely to damage hard tile or wood floors than hard tread casters, and hard tread casters won't grab or snag carpets.

Friction-Ring Stem 2G001

Threaded Stem 1G004

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	Features	Brand	Item No.	Pkg. Qty.
Friction-Ring Stem								
Nylon Tread								
2"	110 lb	2 9⁄32"	7⁄16" x 7⁄8"	Plain	Hooded, Noiseless Stem	—	**416P09**	4
2 3⁄16"	375 lb	2 ½"	7⁄16" x 7⁄8"	Plain	Hooded Wheel	—	**416P18**	5
2"	440 lb	2 7⁄16"	7⁄16" x 7⁄8"	Plain	Hard Tread	—	**19YX32**	4
	440 lb	2 9⁄32"	7⁄16" x 7⁄8"	Plain	Soft Tread	—	**19YX30**	4
	550 lb	2"	7⁄16" x 1⅜"	Plain	—	Bevco	**1RL26**	5
	550 lb	2"	7⁄16" x 7⁄8"	Plain	—	Bevco	**36R592**	5
	550 lb	2"	7⁄16" x 7⁄8"	Plain	—	Bevco	**36R593**	5
	550 lb	2"	7⁄16" x 7⁄8"	Plain	—	Bevco	**36R611**	5 *
	550 lb	2 7⁄16"	7⁄16" x 7⁄8"	Plain	Hard Tread	—	**19YX33**	5
3"	650 lb	3"	7⁄16" x 7⁄8"	Plain	—	Bevco	**422L34**	5
Polyolefin Tread								
2"	75 lb	2 37⁄64"	7⁄16" x 7⁄8"	Plain	Multipurpose Ball	—	**19YX27**	1
	80 lb	2 ⅝"	⅜" x 1"	Plain	Sealed Precision Bearing Raceway	—	**487G49**	1
	80 lb	2 ⅝"	7⁄16" x 1 7⁄16"	Plain	Swivel Force Reduction	—	**454N48**	1
Polyurethane Tread								
2"	550 lb	2 7⁄16"	7⁄16" x 7⁄8"	Plain	Soft Tread	—	**19YX31**	5
Rubber Tread								
2"	75 lb	2 ½"	⅜" x 1"	Plain	Soft Tread	—	**3A785**	1
	75 lb	2 ½"	⅜" x 1"	Precision Ball	Soft Tread	—	**3A778**	1
	75 lb	2 ½"	7⁄16" x 7⁄8"	Plain	Fully Heat Treated	—	**429H23**	1
	75 lb	2 ½"	7⁄16" x 7⁄8"	Precision Ball	Soft Tread	—	**2G009**	1
	75 lb	2 ½"	7⁄16" x 1⅜"	Plain	Hard Tread	—	**1G011**	1
	75 lb	2 ½"	7⁄16" x 1⅜"	Plain	Soft Tread	—	**3A787**	1
	75 lb	2 ½"	7⁄16" x 1⅜"	Precision Ball	Soft Tread	—	**3A779**	1
	75 lb	2 7⁄16"	7⁄16" x 7⁄8"	Plain	Soft Tread	—	**2G001**	1
2 ½"	75 lb	3"	⅜" x 1"	Precision Ball	Soft Tread	—	**2G003**	1
	75 lb	3 3⁄32"	⅜" x 1"	Plain	—	—	**429H16**	1
	75 lb	3 3⁄32"	7⁄16" x 1⅜"	Plain	—	—	**429H17**	1
	75 lb	3 3⁄32"	7⁄16" x 7⁄8"	Plain	—	—	**429H11**	1
2"	440 lb	2"	7⁄16" x 1"	Plain	—	Bevco	**36R601**	4
	550 lb	2"	7⁄16" x 1"	Plain	—	Bevco	**36R605**	5
3"	110 lb	3 ⅝"	7⁄16" x 1⅜"	Plain	Soft Tread	—	**1G005**	1
	165 lb	3 ¾"	7⁄16" x 1⅜"	Plain	—	—	**429H07**	1
Threaded Stem								
Polyolefin Tread								
2"	75 lb	2 9⁄16"	5⁄16" x 1"	Plain	Multipurpose Ball	—	**429H24**	1
	80 lb	2 ⅝"	5⁄16" x 1"	Plain	Sealed Precision Bearing Raceway	—	**487G48**	1
Rubber Tread								
2"	75 lb	2 ½"	5⁄16"-18 x 1"	Plain	Soft Tread	—	**4A002**	1
	75 lb	2 ½"	5⁄16"-18 x ¾"	Plain	Soft Tread	—	**34TA55**	1
	75 lb	2 ½"	5⁄16"-18 x 1⅞"	Plain	Hard Tread	—	**1G013**	1
	75 lb	2 ½"	⅜"-16 x 1½"	Plain	Soft Tread	—	**1G002**	1
	75 lb	2 ½"	⅜"-16 x 1"	Plain	Soft Tread	—	**1G001**	1
	75 lb	2 ½"	⅜"-16 x 1"	Plain	Hard Tread	—	**1G003**	1
2 ½"	75 lb	2 ½"	⅜"-16 x 1½"	Plain	Soft Thread	—	**416P11**	1
2"	75 lb	2 ½"	⅜"-16 x 1½"	Plain	Hard Tread	—	**1G004**	1
2 ½"	75 lb	3 3⁄32"	⅜"-16 x 1½"	Plain	—	—	**429H08**	1
3"	110 lb	3 ¾"	⅜"-16 x 1½"	Plain	Soft Tread	—	**1G016**	1
	110 lb	3 ⅝"	⅜"-16 x ¾"	Plain	Soft Tread	—	**1G007**	1
	165 lb	3 ¾"	⅜"-16 x 1½"	Plain	Hard Tread	—	**1G018**	1
	175 lb	3 ¾"	⅜"-16 x ¾"	Plain	Hard Tread	—	**1G010**	1

** Includes brake.*

Friction Ring Stem w/ Total Lock 487G58

Threaded Stem 20TM22

NSF-Listed Sanitary Stem Casters

Casters satisfy the National Sanitation Foundation's (NSF) rigorous testing requirements for use in environments where sanitary conditions must be maintained. Mount on carts, prep tables, food-service equipment, racks, and similar items that will be exposed to frequent washdowns, oils, or chemicals. All are swivel casters and can rotate 360°.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Friction-Ring Stem					
Thermoplastic Rubber Tread					
5"	325 lb	6"	7/8" x 2 3/16"	**32J812**	—
Rubber Tread					
2"	75 lb	2 29/64"	7/16" x 1 3/8"	**20TM13**	—
3"	100 lb	3 9/16"	7/16" x 1 29/32"	**20TM15**	—
	100 lb	3 9/16"	7/16" x 1 3/8"	**20TM14**	—
3½"	150 lb	4 9/16"	7/16" x 1 29/32"	**32J833**	—
	150 lb	4 9/16"	7/16" x 1 3/8"	**32J842**	—
4"	115 lb	4 5/8"	7/16" x 1 29/32"	**20TM16**	—
	150 lb	5"	7/16" x 1 7/16"	**487G42**	—
	150 lb	5"	7/16" x 1 7/8"	**487G40**	—
5"	150 lb	6 1/16"	7/8" x 2 1/8"	**487G50**	**487G58** *
	200 lb	5 13/16"	1" x 2½"	**32J941**	—
	200 lb	6 1/16"	7/16" x 1 7/8"	**32J835**	—
Polyurethane Tread					
3"	135 lb	3 9/16"	7/16" x 1 3/8"	**20TM19**	—
3½"	325 lb	4 9/16"	7/16" x 1 7/16"	**487G44**	—
4"	350 lb	4 13/16"	7/16" x 1 3/8"	**32J848**	—
	350 lb	4 13/16"	7/16" x 1 29/32"	**32J840**	—
5"	250 lb	5 13/16"	1" x 2½"	**32J814**	—
	250 lb	5 13/16"	7/8" x 2 3/16"	**32J813**	—
	300 lb	5 13/16"	27/32" x 2 3/16"	—	**32J933**
	300 lb	6 1/16"	7/16" x 1 3/8"	**32J849**	—
	300 lb	6 1/16"	7/16" x 1 7/8"	**32J841**	—
	300 lb	6 1/64"	7/8" x 2 3/16"	**20TM20**	—
	325 lb	6 1/16"	7/8" x 2 1/8"	**487G52**	—
Polyolefin Tread					
3½"	230 lb	4 9/16"	7/16" x 1 7/16"	**487G43**	—
	250 lb	4 9/16"	7/16" x 1 7/8"	**32J839**	—
4"	275 lb	5"	7/16" x 1 3/8"	**32J846**	—
	275 lb	5"	7/16" x 1 7/8"	**487G41**	—
5"	300 lb	6 1/16"	7/16" x 1 7/8"	**32J838**	—
Threaded Stem					
Thermoplastic Rubber Tread					
3"	210 lb	4"	3/8"-16 x 1"	**20TM55**	—
4"	300 lb	4 13/16"	½"-13 x 1½"	**32J828**	—

** With total lock.*

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Rubber Tread					
2"	75 lb	2 29/64"	3/8"-16 x 1 1/8"	**20TM12**	—
	75 lb	2 7/16"	½"-13 x 1½"	**20TM49**	—
3"	100 lb	3 5/8"	½"-13 x 1½"	**20TM50**	—
3½"	160 lb	4 3/8"	½"-13 x 1½"	**32J821**	—
	160 lb	4 35/64"	½"-13 x 2½"	**20TM32**	**20TM31**
4"	115 lb	4 13/16"	3/8"-16 x 1½"	**20TM51**	—
	115 lb	4 13/16"	½"-13 x 1½"	**20TM52**	—
	170 lb	4 13/16"	½"-13 x 1½"	**32J822**	—
	170 lb	4 13/16"	½"-13 x 2½"	**32J935**	**32J927**
	170 lb	5"	½"-13 x 2½"	**20TM33**	—
5"	200 lb	5 13/16"	½"-13 x 2½"	**32J936**	**32J928**
	200 lb	6 1/64"	½"-13 x 2½"	**20TM35**	**20TM30**
	200 lb	6"	½"-13 x 1½"	**32J823**	—
Polyurethane Tread					
3"	300 lb	4 1/8"	½"-13 x ¾"	**487G45**	—
3½"	250 lb	4 35/64"	½"-13 x 2½"	**20TM22**	**20TM23**
	250 lb	4 3/8"	½"-13 x 1½"	**32J830**	—
	350 lb	4 35/64"	½"-13 x 1½"	**20TM21**	—
4"	275 lb	5"	½"-13 x 1½"	**20TM24**	—
	275 lb	5"	½"-13 x 2½"	**20TM25**	**20TM26**
	350 lb	4 13/16"	½"-13 x ¾"	**32J819**	—
	350 lb	4 13/16"	½"-13 x 2½"	**32J981**	**32J982**
5"	300 lb	6 1/64"	½"-13 x 2½"	**20TM28**	**20TM29**
	325 lb	6 1/16"	½"-13 x ¾"	**487G46**	—
	350 lb	5 13/16"	½"-13 x 2½"	**32J983**	—
	350 lb	6"	½"-13 x ¾"	**32J820**	—
	350 lb	6 1/64"	½"-13 x 1½"	**20TM27**	—
Polyolefin Tread					
3"	350 lb	3 7/8"	½"-13 x ¾"	**20TM58**	—
	350 lb	3 7/8"	½"-13 x 2½"	**20TM59**	—
3½"	250 lb	4 3/8"	½"-13 x ¾"	**32J815**	—
	250 lb	4 3/8"	½"-13 x 1½"	**32J824**	—
4"	275 lb	5"	½"-13 x 1½"	**20TM36**	—
	350 lb	4 13/16"	½"-13 x 1½"	**32J825**	—
	350 lb	4 13/16"	½"-13 x ¾"	**32J816**	—
5"	350 lb	6"	½"-13 x 1½"	**32J826**	—

Corrosion- and Debris-Resistant Stem Casters

Antimicrobial casters have wheels that are impregnated with an antimicrobial compound that prevents damaging or odor-causing microbes from growing on them. **Corrosion-resistant** casters will not rust or corrode in environments when exposed to water or cleaning chemicals. **Debris-resistant** casters have a thread guard that stops debris from getting inside the caster and damaging or contaminating it. Suitable for racks, carts, and other equipment that will be used in areas where the casters will be exposed to dirt or frequent washdowns, such as laundry rooms, textile factories, food-service facilities, restaurants, offices, government buildings, and schools. All are swivel casters and can rotate 360°.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	Wheel Bearing Type	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Antimicrobial Corrosion- & Debris-Resistant Expanding Stem						
Thermoplastic Rubber Tread						
3"	165 lb	4 7/16"	½"-13 x 2¼"	Precision Ball	**455U23**	**455U39** *
4"	190 lb	5 7/16"	½"-13 x 2¼"	Precision Ball	**455U27**	**455U33** *
5"	220 lb	6 7/16"	½"-13 x 2¼"	Precision Ball	**455U25**	**455U40** *
6"	240 lb	7 7/16"	½"-13 x 2¼"	Precision Ball	**455U41**	**455U34** *
Corrosion- & Debris-Resistant Threaded Stem						
Polyolefin Tread						
3"	110 lb	4 5/16"	3/18"-16 x ¾"	Delrin	**429H21**	**429H22**
	110 lb	4 5/16"	5/16"-18 x 1"	Delrin	**429H19**	**429H20**
Debris-Resistant Friction-Ring Stem						
Polyurethane Tread						
5"	300 lb	5 13/16"	27/32" x 2 3/16"	Precision Ball	**32J932**	—
Debris-Resistant Threaded Stem						
Thermoplastic Rubber Tread						
5"	280 lb	6 1/64"	½"-13 x 1"	Precision Ball	**29XW85**	—

** With total lock.*

Antimicrobial Expanding Stem w/ Total Lock 455U33

Debris-Resistant Friction-Ring 32J932

For information on selecting casters, see page 1191.

Antimicrobial Friction-Ring w/ Total Lock 455U35

Quiet-Roll Expanding Stem 455U22

Quiet-Roll Friction-Ring Stem 455U30

Single-Wheel Threaded Stem w/ Total Lock 454M80

Twin-Wheel Threaded Stem 54JE12

Medical Stem Casters

Casters roll quietly and smoothly to minimize noise that can disturb patients. Use on beds, gurneys, IV poles, maintenance carts, food-service equipment, and other items in areas such as hospitals, rehabilitation centers, and laboratories. All are swivel casters and can rotate 360°. **Antimicrobial** casters have wheels that are impregnated with an antimicrobial compound that stops damaging or odor-causing microbes from growing on them. **Corrosion-resistant** casters will not rust or corrode when exposed to water or cleaning chemicals. **Debris-resistant** casters have a thread guard that keeps debris from getting inside the casters and damaging or contaminating them. **Maintenance-free** casters have sealed precision ball bearings that do not need to be routinely greased. **Single-wheel** casters each have one wheel. **Twin-wheel** casters each have two wheels that let them swivel and start rolling more easily than single-wheel casters.

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Antimicrobial Corrosion- & Debris-Resistant Friction-Ring Stem					
Thermoplastic Rubber Tread					
3"	165 lb	4 7⁄16"	27⁄32" x 2⅛"	**455U36**	**455U35** *
4"	190 lb	5 7⁄16"	27⁄32" x 2⅛"	**455U32**	**455U37** *
5"	220 lb	6 7⁄16"	27⁄32" x 2⅛"	—	**455U38** *
Maintenance-Free High-Performance Friction-Ring Stem					
Thermoplastic Rubber Tread					
3"	165 lb	4 ⅞"	7⁄16" x 1 7⁄16"	—	**454Y41** *
	165 lb	4 ⅞"	7⁄16" x ⅞"	—	**454Y39** *
5"	220 lb	6 ⅞"	27⁄32" x 2 3⁄16"	**1MMN1**	**1MMN2** *
Polyurethane Tread					
3"	165 lb	4 ⅞"	7⁄16" x ⅞"	**487H12**	**487H13** *
Polyolefin Tread					
3"	165 lb	4 ⅞"	7⁄16" x 1 7⁄16"	**454Y40**	—
	165 lb	4 ⅞"	7⁄16" x ⅞"	**454Y38**	—
4"	190 lb	5 13⁄16"	7⁄16" x 1 7⁄16"	**19YX01**	**19YX05** *
5"	220 lb	6 ⅞"	7⁄16" x 1 7⁄16"	**19YX03**	**19YX07** *
Quiet-Roll Expanding Stem					
Thermoplastic Rubber Tread					
3"	165 lb	4 7⁄16"	½"-13 x 2¼"	**455U22**	**455U29** *
4"	190 lb	5 7⁄16"	½"-13 x 2¼"	**455U26**	**455U46** *
6"	240 lb	7 7⁄16"	½"-13 x 2¼"	**455U42**	**455U43** *
Rubber Tread					
5"	175 lb	6 1⁄16"	½"-13 x 2 9⁄16"	—	**490W39** *
Polyurethane Tread					
3"	250 lb	4 ¼"	1 37⁄64" x 2 37⁄64"	—	**49H627**
Quiet-Roll Friction-Ring Stem					
Thermoplastic Rubber Tread					
3"	165 lb	4 7⁄16"	27⁄32" x 2⅛"	**455U31**	**455U30** *
4"	190 lb	5 7⁄16"	27⁄32" x 2⅛"	**455U28**	**455U47** *
6"	240 lb	7 7⁄16"	27⁄32" x 2⅛"	**455U45**	**455U44** *
Neoprene Tread					
2"	125 lb	2 15⁄16"	7⁄16" x ⅞"	—	**38R621** *
3"	175 lb	4 ⅛"	7⁄16" x ⅞"	**454Y13**	**454Y44** *

** With total lock.*

Wheel Dia.	Load Rating	Mounting Height	Caster Stem Size	SWIVEL CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Single-Wheel Threaded Stem					
Thermoplastic Rubber Tread					
4"	190 lb	5 13⁄16"	M12-20 x 25⁄32"	—	**454M80** *
5"	220 lb	6 ⅞"	M12-20 x 25⁄32"	**454Y29**	—
Polyurethane Tread					
3"	165 lb	4 ⅞"	5⁄16"-18 x 1"	**487H14**	**487H15** *
Polyolefin Tread					
4"	190 lb	5 13⁄16"	M12-20 x 25⁄32"	**454M79**	—
	190 lb	5 13⁄16"	½"-13 x 1"	—	**19YX06** *
5"	220 lb	6 ⅞"	½"-13 x 1½"	—	**19YX08** *
Neoprene Tread					
3"	175 lb	4 ⅛"	⅜"-16 x 1"	**455T49**	**455T50** *
Twin-Wheel Threaded Stem					
Polyurethane Tread					
2 15⁄16"	165 lb	3 13⁄16"	15⁄32" x 63⁄64"	**490W44**	—
3"	195 lb	3 9⁄16"	M10-15 x 9⁄16"	**2GU84**	—
3 15⁄16"	220 lb	5 ⅛"	15⁄32" x 63⁄64"	—	**483N15** *
	220 lb	5 1⁄16"	15⁄32" x 63⁄64"	**490W40**	—
4"	175 lb	4 ⅞"	25⁄64" x 9⁄16"	**2GU76**	**2GU77** *
	220 lb	4 ¾"	5⁄32" x 25⁄32"	—	**16D127**
	275 lb	4 11⁄16"	3⁄16" x 15⁄32"	—	**24WA54** *
	275 lb	4 ¾"	31⁄64" x 25⁄32"	—	**2GU87** *
	275 lb	4 ¾"	5⁄32" x 25⁄32"	**2GU86**	—
4 15⁄16"	220 lb	6 1⁄16"	M12-25 x 25⁄32"	—	**54JE11** *
	275 lb	6 1⁄16"	15⁄32" x 63⁄64"	**490W42**	**490W43** *
5"	220 lb	5 ¾"	5⁄32" x 25⁄32"	**2GU78**	—
	295 lb	5 13⁄16"	3⁄16" x ⅝"	**24WA56**	**24WA57** *
Nylon Tread					
3 15⁄16"	220 lb	5 ⅛"	M12-25 x 25⁄32"	—	**54JE09**
4"	220 lb	5 ⅛"	⅝"-18 x 15⁄32"	**54JE12**	—

Plate I

Plate K

22W968

Side-Mount Casters

Casters have vertical mounting plates that attach to the sides of gates, doors, fences, and other heavy equipment that won't support a traditional plate or stem caster. Spring-loaded suspension absorbs shocks to provide a smooth ride even when the casters are rolling on uneven surfaces. All have rubber tread.

Wheel Dia.	Load Rating	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Wheel Bearing Type	Item No.
2"	100 lb	5⅜" x 2"	I	Delrin	**32J780**
3"	100 lb	4" x 1"	I	Plain	**32J778**
	125 lb	5⅜" x 2"	I	Plain	**32J781**
4"	125 lb	4" x 1"	I	Plain	**22W968**
8"	210 lb	5½" x 3¾"	K	Precision Ball	**22W969**

Heavy-Duty Long-Swivel-Life 32MZ44

Corrosion-Resistant Swivel 22N037

Bolt-Hole Casters

Casters have an open hole that provides versatility when mounting the casters to carts, furniture, storage cabinets, racks, and other equipment. Can be installed in tubing using compatible expanding mounting stems that get larger as they're tightened to keep the caster firmly in place, or installed in wood using a lag bolt. **Low-profile** casters are used on equipment that must stay low to the ground to keep it stable while rolling. **Easy-turn** casters each have two wheels, which reduces friction between the floor and the wheels and allows them to swivel more easily than single-wheel casters. **Heavy-duty long-swivel-life** casters have a sealed swivel mechanism that prevents dust and dirt from entering the caster. Thick steel frames can bear heavier loads, tolerate more frequent use, and withstand more shock and impact than other types of bolt-hole casters. **General purpose** casters are suitable for a wide variety of uses, including light-duty to medium-duty maintenance, contracting, janitorial, manufacturing, warehousing, and transportation applications. **Corrosion-resistant** casters have stainless steel frames that withstand frequent washdowns or exposure to chemicals.

Wheel Dia.	Load Rating	Mounting Height	Bolt Hole Dia.	Wheel Bearing Type	SWIVEL CASTER Item No.	RIGID CASTER Item No.	SWIVEL CASTER WITH BRAKE Item No.
Low-Profile Easy-Turn							
Soft Thermoplastic Rubber Tread							
2"	175 lb	2¾"	⅜"	Plain	**22M991**	—	**22M992** *
3"	220 lb	3⅞"	⅜"	Plain	**22M995**	—	**22M996** *
Low-Profile							
Soft Thermoplastic Rubber Tread							
2"	110 lb	2¾"	7⁄16"	Plain	**22M977**	—	**22M978** *
	110 lb	2¾"	7⁄16"	Precision Ball	**22M979**	—	**22M980** *
Hard Nylon Tread							
1⅜"	165 lb	2"	7⁄16"	Plain	**22M999**	—	—
2"	165 lb	2 11⁄16"	7⁄16"	Plain	**22N001**	—	**22N002** *
Heavy-Duty Long-Swivel-Life							
Hard Phenolic Tread							
6"	1200 lb	8"	¾"	Roller	**32MZ42**	—	—
Extra Hard Iron Tread							
6"	1320 lb	7⅞"	¾"	Roller	**32MZ44**	—	—
General Purpose							
Soft Thermoplastic Rubber Tread							
3"	165 lb	3⅞"	7⁄16"	Plain	**22M981**	**22M989**	**22M982** *
	165 lb	3⅞"	7⁄16"	Precision Ball	**22M983**	**22M990**	**22M984** *
3⅞"	155 lb	4¾"	7⁄16"	Plain	**22M985**	—	**22M986** *
Soft Rubber Tread							
3 1⁄16"	310 lb	4"	½"	Roller	**22N005**	—	—
	310 lb	4"	5⁄16"	Roller	—	—	**22N006** *
4"	395 lb	5½"	½"	Roller	**38LU24**	—	**38LU25** *
5"	440 lb	6 7⁄16"	½"	Roller	**38LU26**	—	**38LU27** *
Soft Polyurethane Tread							
3⅞"	660 lb	5 1⁄16"	½"	Precision Ball	**22N020**	—	**22N022** *
Soft Nylon Tread							
3⅞"	330 lb	4⅞"	½"	Precision Ball	**22N007**	—	**22N008** *
4⅞"	330 lb	5⅞"	½"	Precision Ball	**22N009**	—	**22N010** *
Soft Neoprene Tread							
3"	175 lb	4"	7⁄16"	Precision Ball	—	—	**454Y11**
	175 lb	4"	7⁄16"	Precision Ball	—	—	**454Y12** *
Hard Phenolic Tread							
3"	400 lb	4½"	½"	Roller	**38LU19**	—	—
5"	495 lb	6 7⁄16"	½"	Roller	**38LU22**	—	**38LU23** *
Hard Nylon Tread							
3"	350 lb	4½"	½"	Roller	**38LU14**	—	—
3⅞"	770 lb	5 1⁄16"	½"	Precision Ball	**22N016**	—	**22N018** *
4"	495 lb	5½"	½"	Roller	**38LU15**	—	**38LU16** *
Firm Polyurethane Tread							
3⅞"	550 lb	5 1⁄16"	½"	Precision Ball	**22N025**	—	**22N027** *
Corrosion-Resistant							
Soft Thermoplastic Rubber Tread							
3 1⁄16"	220 lb	4¼"	½"	Precision Ball	**22N033**	—	**22N034** *
4⅞"	265 lb	6 3⁄16"	½"	Precision Ball	**22N037**	—	**22N038** *

Expanding Stem Size Range	Stem Length	CARBON STEEL Item No.	STAINLESS STEEL Item No.
Bolt-Hole Caster Expanding Mounting Stems			
For Round Stem with 7⁄16 in Bolt Hole			
25⁄32" to 63⁄64"	2 ½"	**22N255**	**22N264**
63⁄64" to 1 3⁄16"	2 ½"	**22N256**	**22N265**
1 3⁄16" to 1⅜"	2 ½"	**22N257**	**22N266**
1⅜" to 1 37⁄64"	2 ½"	**22N258**	**22N267**
For Square Stem with 7⁄16 in Bolt Hole			
45⁄64" to 53⁄64"	2 ½"	**22N259**	**22N268**
53⁄64" to 63⁄64"	2 ½"	**22N260**	**22N269**
63⁄64" to 1 9⁄64"	2 ½"	**22N261**	**22N270**
1 9⁄64" to 1 17⁄64"	2 ½"	**22N262**	—
1¼" to 1½"	2 9⁄16"	—	**22N272**
1 17⁄64" to 1 33⁄64"	2 ½"	**22N263**	—

** With total lock.*

Polyolefin Tread Wheels

Wheels with hard polyolefin treads will not mark or chip floor surfaces. Lightweight, corrosion-resistant wheels can withstand impacts and exposure to water, oils, and chemicals. Nonabsorbent and can be steam cleaned. Not suitable for prolonged exposure to heat or cold.

1NWT5

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Item No.
3"	125 lb	5⁄16"	1 ⅛"	No	Plain	**2RZF8**
	210 lb	5⁄16"	1 ½"	No	Plain	**26Y398**
3 ½"	250 lb	⅜"	1 9⁄16"	No	Precision Ball	**26Y347**
	250 lb	⅜"	1 ½"	No	—	**26Y346**
	250 lb	⅜"	1 ½"	No	Delrin	**402M57**
4"	140 lb	5⁄16"	1 ⅛"	No	Plain	**426A73**
	250 lb	⅜"	1 9⁄16"	No	Precision Ball	**26Y355**
	255 lb	5⁄16"	1 ½"	No	Plain	**26Y399**
	300 lb	⅜"	1 9⁄16"	No	Delrin	**400K85**
	300 lb	⅜"	1 9⁄16"	No	Precision Ball	**400K86**
	375 lb	⅜"	1 ½"	No	Delrin	**1KA99**
	600 lb	½"	2 3⁄16"	No	Roller	**2RZG1**
5"	145 lb	5⁄16"	1 ⅛"	No	Plain	**2RZG2**
	250 lb	⅜"	1 9⁄16"	No	Precision Ball	**26Y369**
	280 lb	5⁄16"	1 ½"	No	Plain	**26Y401**
	300 lb	⅝", ¾"	2 7⁄16"	Yes	Roller	**1NWT5**
	350 lb	⅜"	1 9⁄16"	No	Plain	**26Y366**
	350 lb	⅜"	1 9⁄16"	No	Delrin	**26Y368**
	400 lb	½"	1 ½"	No	Plain	**426A65**
	450 lb	⅜"	1 ½"	No	Delrin	**1KB21**
	450 lb	⅜"	1 9⁄16"	No	Precision Ball	**400K87**
	650 lb	½"	2 7⁄16"	No	Roller	**2RZG3**
	800 lb	½"	2 3⁄16"	No	Roller	**1ULT2**
6"	300 lb	⅝", ¾"	2 7⁄16"	Yes	Roller	**1NWT6**
	450 lb	⅜"	1 9⁄16"	No	Delrin	**26Y379**
	450 lb	⅜"	1 9⁄16"	No	Precision Ball	**26Y382**
	500 lb	½", ⅝"	2 ¼"	Yes	Plain	**1NWT7**
	700 lb	½"	2 7⁄16"	No	Roller	**2RZG5**
	900 lb	½"	2 3⁄16"	No	Roller	**1ULT3**
8"	1,000 lb	⅝", ¾"	2 7⁄16"	Yes	Roller	**1NWT8**
	900 lb	½"	2 3⁄16"	No	Roller	**1ULT4**
	900 lb	½"	2 7⁄16"	No	Roller	**2RZG7**

2RYZ9

1UBN8

Phenolic Tread Wheels

Wheels with hard phenolic treads resist oils, grease, gasoline, and mild acids and can handle heavy loads without damaging floors. For use in dry environments with smooth, hard flooring such as concrete. 1UBN6 to 1UBN8 are laminated phenolic.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
3 ¼"	700 lb	½"	2 7⁄16"	No	Roller	Black	**55KC39**
4"	500 lb	⅜"	1 ¾"	No	Roller	Black	**1G450**
	600 lb	⅜"	1 ¾"	No	Roller	Black	**55KC34**
	800 lb	½"	2 7⁄16"	No	Roller	Black	**2G223**
		½"	2 7⁄16"	No	Delrin	Black	**55KC36**
5"	600 lb	⅜"	1 ¾"	No	Roller	Black	**55KC35**
	1000 lb	½"	2 7⁄16"	No	Precision Ball	Black	**16V368**
		½"	2 7⁄16"	No	Roller	Black	**2RYZ6**
		½"	2 7⁄16"	No	Delrin	Black	**55KC37**
6"	500 lb	⅜"	2 ⅛"	No	Roller	Black	**416P24**
	1200 lb	½"	2 3⁄16"	No	Roller	Brown	**489C23** *
		½"	2 7⁄16"	No	Roller	Black	**2RYZ9**
	1500 lb	¾"	2 3⁄16"	No	Roller	Brown	**1UBN5** *
	1600 lb	¾"	3 ½"	No	Roller	Black	**55KC40**
	1800 lb	1"	3 ¼"	No	Roller	Black	**5VJ70**
	2000 lb	1"	3 ¼"	No	Roller	Black	**423J18**
8"	1200 lb	½"	2 7⁄16"	No	Roller	Black	**2RZA2**
	1400 lb	½"	2 7⁄16"	No	Precision Ball	Black	**16V370**
		½"	2 7⁄16"	No	Roller	Black	**1G421**
		¾"	2 ¼"	No	Roller	Black	**5VJ83**
	1750 lb	¾"	2 3⁄16"	No	Roller	Brown	**1UBN6** *
	2000 lb	¾"	3 ½"	No	Roller	Black	**55KC41**
	2500 lb	¾"	3 ¼"	No	Roller	Black	**16V330**
	3000 lb	1"	3 ¼"	No	Roller	Black	**5VJ94**
10"	2500 lb	¾"	3 ½"	No	Roller	Black	**55KC38**
	2900 lb	1"	3 ½"	No	Roller	Black	**423J15**
	3600 lb	1"	3 ¼"	No	Roller	Brown	**1UBN7** *
12"	3500 lb	1"	3 ¼"	No	Roller	Black	**16V332**
		1"	3 ¼"	No	Roller	Black	**52YU04**
	4400 lb	1"	3 ¼"	No	Roller	Brown	**1UBN8** *

** Impact resistant.*

Nonmarking Soft Rubber Tread
5VF40

Nonmarking Soft Thermoplastic Rubber Tread
2RYW6

Soft Rubber Tread
3G268

Rubber Tread Wheels

Wheels with rubber treads are suitable for most types of flooring. **Soft** treads offer more cushioning and better floor protection than hard treads. **Hard** treads provide more weight capacity, better abrasion resistance, and easier rolling than soft treads. **Nonmarking** treads will not leave marks on floors.

Aluminum wheel cores are lighter and more rust- and corrosion-resistant than iron cores. **Plastic, nylon,** and **polyurethane** wheel cores are lighter and more corrosion-resistant than metal cores. **Iron** wheel cores typically have high load capacities but must be used in dry environments. **Rubber** wheel cores have a rubber tread and core that are molded as a single piece, eliminating the risk of the tread and core separating during use.

Nonmarking Firm Thermoplastic Rubber Tread
26Y430

Hard Rubber Tread
1NWT9

Nonmarking Hard Rubber Tread
29XU73

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Nonmarking Soft Rubber Tread							
Aluminum Core							
3 ⅞"	440 lb	9/16"	1 ⅝"	No	Precision Ball	Black	**487G13**
5"	440 lb	½"	2 7/16"	No	Precision Ball	Green	**5VF29**
5 ⅞"	880 lb	¾"	2 ⅜"	No	Precision Ball	Black	**487G14**
6"	660 lb	½"	2 7/16"	No	Precision Ball	Green	**5VF33**
	820 lb	½"	2 ½"	No	Precision Ball	Blue	**29XU69**
7 ⅞"	1,100 lb	¾"	2 ⅜"	No	Precision Ball	Gray	**454Y03**
8"	1,000 lb	½"	2 7/16"	No	Precision Ball	Blue	**426A83**
	880 lb	½"	2 7/16"	No	Precision Ball	Green	**5VF40**
Nylon Core							
3 ½"	225 lb	⅜"	1 ⅝"	No	Precision Ball	Blue	**29XU71**
4"	250 lb	⅜"	1 ⅝"	No	Precision Ball	Blue	**29XU72**
	400 lb	½"	2 7/16"	No	Precision Ball	—	**307Z95**
5"	500 lb	½"	2 7/16"	No	Precision Ball	Blue	**29XU74**
6"	600 lb	½"	2 7/16"	No	Precision Ball	Blue	**29XU75**
8"	700 lb	½"	2 7/16"	No	Precision Ball	Blue	**29XU76**
Plastic Core							
3"	200 lb	⅜"	1 9/16"	No	Delrin	Gray	**2RYW3**
3 ½"	250 lb	⅜"	1 9/16"	No	Delrin	Gray	**2RYW7**
Steel Core							
3 ⅛"	440 lb	¾"	1 13/16"	No	Precision Ball	Gray	**40L538**
6 5/16"	990 lb	¾"	2 ⅜"	No	Precision Ball	Gray	**40L539**
7 ⅞"	1,320 lb	¾"	2 ⅜"	No	Precision Ball	Gray	**40L540**
11 13/16"	2,200 lb	1 3/16"	3 5/16"	No	Precision Ball	Gray	**40L544**
Nonmarking Soft Thermoplastic Rubber Tread							
Plastic Core							
3"	200 lb	⅜"	1 ½"	No	Precision Ball	Gray	**2RYW6**
3 ½"	250 lb	⅜"	1 ½"	No	Precision Ball	Gray	**2RYW8**
4"	135 lb	5/16"	1 3/16"	No	Plain	Gray	**26Y335**
	275 lb	⅜"	1 ¾"	No	Delrin	Gray	**26Y358**
	275 lb	⅜"	1 9/16"	No	Delrin	Gray	**26Y352**
	300 lb	½"	1 ½"	No	Delrin	Gray	**5VT75**
	300 lb	⅜"	1 ½"	No	Delrin	Gray	**2RYX1**
	300 lb	⅜"	1 ½"	No	Precision Ball	Gray	**2RYX3**
5"	200 lb	⅜"	1 ⅝"	No	Precision Ball	Gray	**1KB19**
	300 lb	⅜"	1 ¾"	No	Precision Ball	Gray	**26Y373**
	300 lb	⅜"	1 ¾"	No	Delrin	Gray	**26Y372**
	300 lb	⅜"	1 9/16"	No	Delrin	Gray	**26Y367**
	325 lb	½"	1 7/16"	No	Delrin	Gray	**5VT79**
	325 lb	⅜"	1 ½"	No	Delrin	Gray	**2RZK2**
	325 lb	⅜"	1 9/16"	No	Precision Ball	Gray	**5VT78**
	350 lb	5/16"	1 ⅝"	No	Precision Ball	Blue	**5VT77**
	375 lb	½"	2 7/16"	No	Roller	Gray	**2RYX6**
6"	300 lb	⅜"	2 ⅛"	No	Delrin	Gray	**26Y380**
	450 lb	½"	2 7/16"	No	Roller	Gray	**426A67**
	450 lb	½"	2 7/16"	No	Roller	Gray	**2RZJ1**
	600 lb	½"	2 ½"	No	Roller	Gray	**5VT81**
	600 lb	½"	2 7/16"	No	Roller	Gray	**2RYX9**
8"	500 lb	½"	2 7/16"	No	Precision Ball	Gray	**2RYY4**
	675 lb	½"	2 7/16"	No	Roller	Gray	**2RYY3**
	675 lb	½"	2 ½"	No	Roller	Gray	**5VT82**
10"	250 lb	⅝"	2 ¼"	No	Precision Ball	Black	**16V335**
Polyurethane Core							
5"	280 lb	5/16"	1 ½"	No	Delrin	Gray	**26Y396**
6"	450 lb	½"	2 15/32"	No	Roller	Gray	**26Y431**

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Soft Rubber Tread							
Aluminum Core							
3 15/16"	220 lb	9/16"	1 13/16"	No	Precision Ball	Black	**483N34**
3 ⅞"	440 lb	9/16"	1 ⅝"	No	Precision Ball	Black	**40L496**
4 ⅞"	550 lb	9/16"	1 ¾"	No	Precision Ball	Black	**40L497**
	595 lb	¾"	2 ⅜"	No	Precision Ball	Black	**40L498**
	595 lb	¾"	2 ⅜"	No	Precision Ball	Black	**487G27**
5"	350 lb	½"	2 7/16"	No	Roller	Black	**2RYX7**
	500 lb	¾"	2 3/16"	No	Roller	Black	**26Y448**
5 ⅞"	880 lb	¾"	2 ⅜"	No	Precision Ball	Black	**40L499**
6"	550 lb	¾"	2 3/16"	No	Roller	Black	**26Y449**
6 ¼"	880 lb	½"	2 ⅜"	No	Precision Ball	Black	**40L501**
7 ⅞"	1,100 lb	¾"	2 ⅜"	No	Precision Ball	Black	**40L502**
9 13/16"	1,430 lb	¾"	2 ⅜"	No	Precision Ball	Black	**40L503**
Iron Core							
4"	300 lb	½"	2 7/16"	No	Roller	Black	**3G266**
	300 lb	½"	2 3/16"	No	Roller	Black	**2RZJ6**
5"	450 lb	½"	2 ½"	No	Roller	Black	**3G267**
	500 lb	½"	2 7/16"	No	Roller	Black	**2RZJ7**
6"	410 lb	½"	2 7/16"	No	Roller	Black	**2RYY1**
	500 lb	½"	2 7/16"	No	Roller	Black	**2RZJ8**
	500 lb	½"	2 ½"	No	Roller	Black	**3G268**
	810 lb	½"	2 7/16"	No	Roller	Black	**5VF36**
8"	1,175 lb	½"	2 3/16"	No	Roller	Black	**400K38**
	500 lb	½"	2 7/16"	No	Roller	Black	**2RYY2**
	600 lb	½"	2 7/16"	No	Roller	Black	**2RZJ9**
	600 lb	½"	2 15/32"	No	Roller	Black	**3G269**
10"	1,350 lb	⅝"	2 ⅜"	No	Roller	Black	**5VF54**
15 ⅞"	3,300 lb	1 ¾"	5 ⅛"	No	Precision Ball	Black	**483N52**
Rubber Core							
5"	240 lb	⅜"	1 9/16"	No	Precision Ball	Black	**26Y411**
Steel Core							
6 ¼"	495 lb	¾"	2 ⅜"	No	Roller	Black	**40L535**
7 ⅞"	770 lb	¾"	2 ⅜"	No	Roller	Black	**40L536**
9 13/16"	1,870 lb	1"	2 13/16"	No	Precision Ball	Black	**489D29**
9 15/16"	990 lb	1"	2 ⅝"	No	Roller	Black	**40L537**
Nonmarking Firm Rubber Tread							
Aluminum Core							
3 ½"	250 lb	⅜"	1 ½"	No	Delrin	Gray	**26Y427**
Plastic Core							
3 ½"	250 lb	½"	1 7/16"	No	Delrin	Gray	**5VT73**
4"	165 lb	⅜"	1 ½"	No	Delrin	Gray	**1KA95**
	300 lb	⅜"	1 ½"	No	Precision Ball	Gray	**488T93**
6"	240 lb	⅜"	1 7/16"	No	Precision Ball	Gray	**487G26**
Nonmarking Firm Thermoplastic Rubber Tread							
Plastic Core							
4"	325 lb	⅜"	1 7/16"	No	Precision Ball	Gray	**2LU25**
5"	350 lb	½"	2 3/16"	No	Roller	Gray	**26Y430**
	500 lb	⅜"	1 7/16"	No	Precision Ball	Gray	**2LU27**
8"	600 lb	½"	2 3/16"	No	Roller	Gray	**26Y432**
Hard Rubber Tread							
Rubber Core							
5"	300 lb	½", ⅝"	1 ⅝"	Yes	Plain	Black	**1NWT9**
6"	350 lb	½", ⅝"	2 ¼"	Yes	Plain	Black	**426A66**
Nonmarking Hard Rubber Tread							
Nylon Core							
4"	400 lb	½"	2 3/16"	No	Precision Ball	Blue	**29XU73**

Glass-Filled Nylon Core
29XU37

Plastic Core
1ULR8

Polyurethane Core
2RZD6

Polyurethane Tread on Plastic Core Wheels

Wheels have plastic cores, which weigh less and are more corrosion resistant than metal cores. Withstand exposure to water. Polyurethane treads resist abrasion and chemicals, roll quietly, and will not mark floors. **Glass-filled nylon** cores will not chip, absorb water, or break down in caustic environments. **Nylon** cores withstand exposure to solvents, corrosive environments, and extreme temperatures. **Polyurethane** cores provide excellent chemical resistance. **Rubber** cores absorb shock and resist impact.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/ Tread Hardness Rating	Wheel Color	Item No.
Glass-Filled Nylon Core								
4"	600 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU37**
Nylon Core								
4"	195 lb	5/16"	1 ½"	No	Delrin	Firm	Blue	**1KB27**
5"	145 lb	5/16"	1 ⅛"	No	Plain	Firm	Blue	**2RZC9**
	220 lb	5/16"	1 ½"	No	Delrin	Firm	Blue	**1KB29**
	250 lb	⅜"	1 ½"	No	Delrin	Firm	Blue	**1KB23**
	750 lb	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC8**
Plastic Core								
3"	210 lb	⅜"	1 9/16"	No	Delrin	Hard	Maroon	**26Y385**
	300 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LE95**
	300 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**402M58**
3½"	250 lb	⅜"	1 ½"	No	Delrin	Firm	Blue	**1KA89**
	250 lb	⅜"	1 ⅝"	No	Precision Ball	Firm	Blue	**426A63**
	350 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**426A71**
4"	250 lb	⅜"	1 ⅝"	No	Precision Ball	Firm	Blue	**1KB13**
	275 lb	⅜"	1 ½"	No	Delrin	Firm	Blue	**1KB11**
	275 lb	⅜"	1 9/16"	No	Delrin	Firm	Maroon	**26Y356**
	350 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LE99**
	350 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**402M59**
	600 lb	½"	2 ½"	No	Roller	Firm	Gray	**3G303**
	600 lb	½"	2 7/16"	No	Roller	Firm	Red	**2RZC5**
5"	220 lb	5/16"	1 7/16"	No	Precision Ball	Hard	Gray	**454Y09**
	280 lb	5/16"	1 ½"	No	Delrin	Firm	Maroon	**26Y443**
	300 lb	⅜"	1 9/16"	No	Delrin	Firm	Maroon	**26Y370**
	350 lb	⅜"	1 ⅝"	No	Precision Ball	Firm	Gray	**426A72**
	350 lb	5/16"	1 ⅝"	No	Precision Ball	Firm	Blue	**5VT65**
	350 lb	5/16"	1 ⅝"	No	Precision Ball	Firm	Blue	**400K33**
	350 lb	5/16"	1 ⅝"	No	Precision Ball	Firm	Blue	**400K34**
	360 lb	⅜"	1 ⅝"	No	Precision Ball	Firm	Blue	**426A64**
	375 lb	⅜"	1 9/16"	No	Precision Ball	Firm	Gray	**2LU15**
	450 lb	⅜"	1 ¾"	No	Delrin	Firm	Maroon	**26Y375**
	450 lb	⅜"	1 ¾"	No	Precision Ball	Firm	Maroon	**26Y376**
	750 lb	½"	2 ½"	No	Roller	Firm	Gray	**3G304**
	750 lb	½"	2 7/16"	No	Roller	Firm	Red	**1ULR8**
	750 lb	½"	2 3/16"	No	Delrin	Hard	Gray	**490V06**
6"	1,100 lb	½"	2 3/16"	No	Roller	Firm	Blue	**400K31**
	450 lb	⅜"	2 ⅛"	No	Delrin	Firm	Maroon	**26Y383**
	650 lb	½"	2 3/16"	No	Roller	Firm	Red	**2RZD9**
	800 lb	½"	2 7/16"	No	Roller	Firm	Gray	**400K89**
	900 lb	½"	2 3/16"	No	Delrin	Firm	Blue	**2RZD8**
	900 lb	½"	2 7/16"	No	Roller	Firm	Blue	**2RZE2**
	900 lb	½"	2 7/16"	No	Roller	Firm	Red	**426A69**
8"	900 lb	½"	2 3/16"	No	Roller	Firm	Red	**1ULT1**
	900 lb	½"	2 3/16"	No	Roller	Firm	Blue	**2RZF2**
	900 lb	½"	2 3/16"	No	Delrin	Firm	Blue	**2RZF5**
	900 lb	½"	2 7/16"	No	Roller	Firm	Gray	**416P25**
Polyurethane Core								
4"	1,000 lb	½"	2 7/16"	No	Precision Ball	Hard	Green	**2RZA9**
5"	650 lb	½"	2 7/16"	No	Roller	Firm	Red	**2RZD6**
	750 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**489A90**
6"	900 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**5VT68**
8"	1,000 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**489A91**
Rubber Core								
3"	125 lb	5/16"	1 3/16"	No	Plain	Firm	Maroon	**26Y331**

Aluminum Core
2RZE7

Iron Core
4DB70

Steel Core
19YU64

Polyurethane Tread on Metal Core Wheels

Wheels have metal cores and typically provide higher weight capacities than wheels with plastic cores. Polyurethane treads resist abrasion and chemicals, roll quietly, and will not mark floors. **Aluminum** cores are lighter and more resistant to rust and corrosion than iron or steel cores. **Iron** cores provide good wear resistance and must be used in dry environments to avoid rusting. **Steel** cores provide more wear resistance and have higher load capacities than iron or aluminum wheel cores. For use in dry environments.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/ Tread Hardness Rating	Wheel Color	Item No.
Aluminum Core								
3"	210 lb	5/16"	1 ½"	No	Delrin	Firm	Maroon	**26Y397**
4"	600 lb	½"	2 3/16"	No	Delrin	Hard	Gray	**26Y434**
	600 lb	½", ¾"	2 7/16"	Yes	Roller	Firm	Blue	**26Y433**
	650 lb	½"	2 ½"	No	Precision Ball	Firm	Orange	**49H856**
	700 lb	½"	2 7/16"	No	Roller	Hard	Green	**3G270**
5"	750 lb	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H857**
	900 lb	½"	2 3/16"	No	Roller	Firm	Blue	**402M60**
	1,050 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU78**
	1,050 lb	½"	2 7/16"	No	Roller	Hard	Green	**3G271**
	1,050 lb	½"	2 3/16"	No	Roller	Firm	Red	**2RZD7**
	1,250 lb	½"	2 3/16"	No	Roller	Firm	Blue	**2RZD2**
6"	900 lb	½"	2 3/16"	No	Roller	Hard	Gray	**26Y436**
	1,000 lb	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H858**
	1,200 lb	½"	2 3/16"	No	Roller	Firm	Blue	**2RZE1**
	1,200 lb	½"	2 3/16"	No	Roller	Firm	Red	**2RZE7**
	1,230 lb	½"	2 7/16"	No	Roller	Hard	Green	**3G272**
	1,230 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU79**
	1,250 lb	½"	2 7/16"	No	Precision Ball	Firm	Green	**16V363**
7 ⅞"	1,760 lb	¾"	2 ⅜"	No	Precision Ball	Firm	Tan	**40L506**
8"	900 lb	½", ¾"	2 7/16"	Yes	Roller	Firm	Blue	**26Y437**
	1,200 lb	½"	2 15/32"	No	Precision Ball	Firm	Orange	**49H859**
	1,200 lb	½"	2 3/16"	No	Roller	Firm	Blue	**2RZF3**
	1,200 lb	½"	2 3/16"	No	Roller	Firm	Red	**2RZE9**
	1,250 lb	½"	2 3/16"	No	Roller	Firm	Green	**2RZE8**
	1,500 lb	½"	2 7/16"	No	Roller	Hard	Green	**3G273**
	1,500 lb	½"	2 11/16"	No	Roller	Firm	Blue	**2RZF6**
	1,500 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU80**
10"	1,750 lb	½"	2 11/16"	No	Roller	Firm	Blue	**2RZF7**
Iron Core								
3"	125 lb	5/16"	1 3/16"	No	Plain	Firm	Blue	**2RZA7**
4"	375 lb	⅜"	1 ¾"	No	Delrin	Firm	Maroon	**26Y362**
	375 lb	⅜"	1 ¾"	No	Precision Ball	Firm	Maroon	**26Y363**
	400 lb	⅜"	1 ⅝"	No	Precision Ball	Firm	Orange	**45XC22**
	600 lb	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC2**
	700 lb	½"	2 7/16"	No	Roller	Firm	Blue	**2RZC6**
	750 lb	½"	2 ¼"	No	Precision Ball	Firm	Green	**4DU67**
	750 lb	¾"	2 ¼"	No	Roller	Firm	Green	**423J16**
	975 lb	½"	2 ½"	No	Precision Ball	Hard	Black	**49H454**
5"	935 lb	½"	2 ⅜"	No	Roller	Firm	Tan	**5VF30**
	1,050 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU84**
6"	960 lb	½"	2 ¼"	No	Precision Ball	Firm	Blue	**4DB70**
	1,200 lb	½"	2 ¼"	No	Precision Ball	Firm	Green	**4DU68**
	1,200 lb	¾"	2 ¼"	No	Roller	Firm	Green	**5VJ61**
	1,230 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU85**
	1,560 lb	½"	2 ½"	No	Precision Ball	Hard	Black	**49H455**
	1,600 lb	½"	2 ¼"	No	Precision Ball	Firm	Tan	**5VF35**
	1,600 lb	½"	2 ⅜"	No	Roller	Firm	Maroon	**5VF34**
	1,600 lb	1"	3 ¼"	No	Roller	Firm	Green	**5VJ67**
	2,200 lb	¾"	3 ¼"	No	Precision Ball	Firm	Green	**4DU69**
	2,200 lb	1"	3 ¼"	No	Roller	Firm	Green	**5VJ72**
	2,860 lb	¾"	3 ½"	No	Precision Ball	Hard	Black	**49H457**
8"	1,200 lb	½"	2 ¼"	No	Precision Ball	Firm	Blue	**4DB71**
	1,500 lb	½"	2 7/16"	No	Roller	Firm	Blue	**29XU87**
	1,500 lb	½"	2 ¼"	No	Precision Ball	Firm	Green	**4DU70**
	1,500 lb	¾"	2 ¼"	No	Roller	Firm	Green	**5VJ82**
	1,800 lb	¾"	3 ½"	No	Roller	Firm	Blue	**29XU88**
	1,950 lb	½"	2 ½"	No	Precision Ball	Hard	Black	**49H456**
	2,420 lb	½"	2 ⅜"	No	Roller	Firm	Maroon	**5VF41**
	2,500 lb	¾"	3 ½"	No	Roller	Firm	Blue	**29XU35**
	2,500 lb	¾"	3 ¼"	No	Precision Ball	Firm	Green	**4DU71**
	2,500 lb	1"	3 ¼"	No	Roller	Firm	Green	**5VJ90**
	3,500 lb	1 ¼"	4 ½"	No	Roller	Firm	Blue	**29XU38**
	3,950 lb	1"	3 ½"	No	Tapered Roller	Firm	Tan	**5VF44**
10"	2,640 lb	⅝"	2 ⅜"	No	Roller	Firm	Tan	**5VF49**
	2,640 lb	⅝"	2 ¼"	No	Precision Ball	Firm	Tan	**5VF50**
	3,000 lb	¾"	3 ¼"	No	Precision Ball	Firm	Green	**4DU72**
	3,000 lb	1"	3 ¼"	No	Roller	Firm	Green	**5VJ33**
12"	3,080 lb	⅝"	2 ⅜"	No	Roller	Firm	Tan	**5VF55**
	3,500 lb	1"	3 ¼"	No	Roller	Firm	Green	**5VJ42**
Plastic Core								
4"	140 lb	5/16"	1 ⅛"	No	Plain	Firm	Blue	**2RZC3**
Steel Core								
3"	1,100 lb	¾"	2 15/16"	No	Precision Ball	Firm	Yellow	**19YU64**
10"	5,000 lb	1 ¼"	4 ½"	No	Precision Ball	Firm	Blue	**5VJ41**
12"	6,000 lb	1 ¼"	4 ½"	No	Tapered Roller	Firm	Blue	**5VJ43**

Ergonomic
490V04

Heat-Resistant
406P64

Nylon Tread
5VF22

Nylon Tread Wheels

Wheels are hard, lightweight, and will not mark floors. Withstand exposure to solvents, corrosive environments, and temperature extremes; not recommended for heavily acidic or basic environments. Can be steam cleaned and will not chunk or separate. **Ergonomic** wheels roll smoothly and provide very low resistance to rolling and swiveling. **Heat-resistant** wheels are made from reinforced nylon and withstand exposure to very high temperatures. **Wheels for pallet jacks** are sized to fit pallet jacks and can carry heavy loads for their size.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Ergonomic Nylon Tread							
2⅝"	1,400 lb	9/16"	1 13/16"	No	Precision Ball	White	**490U96**
3⅛"	2,200 lb	¾"	1 13/16"	No	Precision Ball	White	**490U97**
	350 lb	9/16"	1 11/16"	No	Precision Ball	Gray	**490V04**
3 5/16"	1,760 lb	11/16"	3 5/64"	No	Precision Ball	White	**489D24**
4"	3,000 lb	½"	2 3/16"	No	Precision Ball	Black	**454N26**
4⅞"	660 lb	⅜"	1 13/16"	No	Precision Ball	Gray	**490V03**
7⅞"	2,200 lb	13/16"	2⅜"	No	Precision Ball	Gray	**489C50**
8"	3,000 lb	½"	2 3/16"	No	Precision Ball	Beige	**489A84**
Heat-Resistant Nylon Tread							
3½"	700 lb	½"	1½"	No	Plain	Black	**406P64**
4"	700 lb	½"	1⅜"	No	Plain	Black	**5VR55**
	800 lb	½"	2 7/16"	No	Roller	Black	**5VR56**
	800 lb	¾"	2 3/16"	No	Plain	—	**55GZ64**
5"	1,000 lb	½"	2 7/16"	No	Roller	Black	**5VR58**
	800 lb	½"	1½"	No	—	Black	**416P31**
6"	1,200 lb	¾"	2 3/16"	No	Plain	—	**55GZ55**
8"	1,400 lb	½"	2 7/16"	No	Roller	Black	**5VR60**
	1,400 lb	¾"	2 3/16"	No	Plain	—	**55GZ58**
Nylon Tread							
2"	550 lb	25/64"	1"	No	Plain	Black	**24WK28**
2 9/16"	715 lb	15/32"	1 11/16"	No	Roller	White	**5VF22**
3"	350 lb	7/16"	1¾"	No	Plain	White	**4DB76**
	660 lb	½"	1 7/16"	No	Precision Ball	White	**40L476**
3⅛"	2,200 lb	¾"	1 13/16"	No	Precision Ball	Beige	**40L483**
3¼"	700 lb	½"	2 3/16"	No	Roller	Black	**5VR61**
3⅜"	900 lb	½"	2⅞"	No	Precision Ball	White	**5VF24**
3⅞"	2,750 lb	¾"	1 13/16"	No	Precision Ball	Beige	**40L484**
	3,300 lb	1"	2⅜"	No	Precision Ball	Beige	**40L485**
4"	1,100 lb	½"	1⅞"	No	Precision Ball	White	**40L477**
	2,160 lb	½"	2 3/16"	No	Precision Ball	Black	**1VJJ5**
	2,000 lb	½"	2½"	No	Precision Ball	Gray	**29XU98**
	2,000 lb	¾"	2½"	No	Precision Ball	Black	**49H445**
4⅞"	1,650 lb	¾"	2⅜"	No	Precision Ball	White	**40L478**
	4,400 lb	1"	2⅜"	No	Precision Ball	Beige	**40L486**
5"	1,000 lb	½"	2 3/16"	No	Roller	Black	**2RZH1**
	2,000 lb	½"	2½"	No	Precision Ball	Gray	**29XU99**
	3,000 lb	½"	2 3/16"	No	Precision Ball	Black	**1VJJ7**
	580 lb	7/16"	1¾"	No	Plain	White	**4DB78**
5⅞"	1,760 lb	¾"	2⅜"	No	Precision Ball	White	**40L479**
	5,500 lb	1 3/16"	2⅜"	No	Precision Ball	Beige	**40L487**
	6,600 lb	1⅜"	3½"	No	Precision Ball	Beige	**40L488**
6"	1,200 lb	½"	2 3/16"	No	Roller	Black	**2RZH2**
	2,300 lb	½"	2¼"	No	Precision Ball	Black	**49H446**
	3,000 lb	½"	2 3/16"	No	Precision Ball	Black	**1VJJ9**
	5,400 lb	¾"	3¼"	No	Precision Ball	Black	**49H448**
	720 lb	½"	2 3/16"	No	Precision Ball	White	**16V305**
7⅞"	6,600 lb	1⅜"	2⅜"	No	Precision Ball	Beige	**40L489**
8"	1,400 lb	½"	2 7/16"	No	Roller	Black	**2RZH3**
	2,500 lb	½"	2¼"	No	Precision Ball	Black	**49H447**
	3,000 lb	½"	2 3/16"	No	Precision Ball	Black	**440A69**
	7,200 lb	¾"	3¼"	No	Precision Ball	Black	**52YU21**
	7,200 lb	¾"	3¼"	No	Precision Ball	Black	**440A65**
9 13/16"	11,020 lb	1¾"	2 13/16"	No	Precision Ball	Beige	**40L491**
	13,225 lb	2"	3½"	No	Precision Ball	Beige	**40L492**
10"	7,000 lb	¾"	3"	No	Precision Ball	Black	**52YU22**
	7,200 lb	¾"	3¼"	No	Precision Ball	Black	**440A66**
	8,200 lb	¾"	3½"	No	Precision Ball	Black	**52YU23**
Nylon Tread for Pallet Jacks							
3⅛"	1,320 lb	¾"	2⅝"	No	Precision Ball	White	**31DM89**
3¼"	1,540 lb	¾"	2¾"	No	Precision Ball	White	**31DM94**
	2,205 lb	¾"	3 15/16"	No	Precision Ball	White	**31DM90**
3 5/16"	1,430 lb	¾"	2 23/64"	No	Precision Ball	White	**31DM91**

Iron Tread
4DU78

Iron Tread
1VJL4

Heat-Resistant
Iron Tread
55GZ65

Metal Tread Wheels

Wheels offer high weight capacities and withstand shock, abrasion, impact, rough use, and exposure to temperature extremes. Suitable for moving heavy loads over rough terrain. Tread and core are made from the same material. **Iron** wheels withstand exposure to corrosive chemicals, grease, and oils better than steel. **Steel** wheels can bear heavier loads than iron wheels. **Heat-resistant** wheels have double-shielded maintenance-free bearings and an enamel coating that allow the wheels to withstand exposure to very high temperatures.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel Color	Item No.
Iron Tread Wheels							
3"	450 lb	⅜"	1½"	No	Roller	Silver	**26Y417**
3⅛"	550 lb	½"	1⅜"	No	Plain	Silver	**487H31**
3¼"	700 lb	½"	2 3/16"	No	Roller	Black	**2RZK1**
4"	650 lb	⅜", ½"	1⅝"	Yes	Roller	Silver	**26Y418**
	700 lb	½"	2 7/16"	No	Roller	Silver	**5VF26**
	700 lb	½"	2 7/16"	No	Roller	Black	**2RYY5**
	700 lb	½"	2 3/16"	No	Roller	Gray	**489A88**
	1,000 lb	½"	2¼"	No	Precision Ball	Red	**4DU77**
	1,000 lb	½", ¾"	2 7/16"	Yes	Roller	Silver	**26Y438**
	1,000 lb	¾"	2¼"	No	Roller	Red	**5VJ50**
5"	800 lb	½"	2 3/16"	No	Roller	Silver	**490V01**
	1,000 lb	½"	2 7/16"	No	Roller	Black	**2RYY7**
	1,300 lb	½"	2 7/16"	No	Roller	Gray	**26Y439**
	1,385 lb	½"	2 7/16"	No	Roller	Silver	**5VF28**
	1,500 lb	½"	2 3/16"	No	Roller	Silver	**1VJL1**
	1,700 lb	½"	2 7/16"	No	Roller	Black	**426A70**
6"	1,000 lb	½"	2 3/16"	No	Roller	Silver	**490V02**
	1,200 lb	½"	2 7/16"	No	Roller	Black	**2RYY8**
	1,200 lb	½"	2⅜"	No	Roller	Silver	**5VF31**
	1,200 lb	½"	2 3/16"	No	Roller	Silver	**455T86**
	1,400 lb	½"	2¼"	No	Precision Ball	Red	**4DU78**
	1,400 lb	½"	2 7/16"	No	Roller	Gray	**26Y440**
	1,400 lb	¾"	2¼"	No	Roller	Red	**5VJ62**
	2,000 lb	½"	2 3/16"	No	Roller	Black	**400K32**
	3,500 lb	1"	3¼"	No	Roller	Red	**52YU24**
	6,000 lb	½"	3¼"	No	Roller	Black	**1VJL4**
	6,000 lb	1"	3¼"	No	Roller	Red	**52YU25**
8"	1,400 lb	½"	2 7/16"	No	Roller	Black	**2RYZ2**
	1,400 lb	½"	2 3/16"	No	Roller	Silver	**455T87**
	1,500 lb	½"	2 3/16"	No	Roller	Black	**1VJL5**
	1,800 lb	½", ¾"	2 7/16"	Yes	Roller	Silver	**26Y441**
	2,525 lb	½"	2⅜"	No	Roller	Gray	**5VF38**
	2,600 lb	1"	3¼"	No	Roller	Red	**5VJ93**
9 13/16"	3,085 lb	1"	2 13/16"	No	Plain	Silver	**490U94**
	3,085 lb	1"	2 13/16"	No	Plain	Silver	**490U95**
10"	2,750 lb	⅝"	2⅜"	No	Roller	Gray	**5VF48**
Heat-Resistant Iron Tread Wheels							
4"	800 lb	½"	2¼"	Yes	Precision Ball	—	**55GZ65**
6"	1,100 lb	½"	2¼"	Yes	Precision Ball	—	**55GZ56**
	1,600 lb	½"	2½"	Yes	Precision Ball	—	**55GZ57**
	2,000 lb	¾"	3½"	No	Precision Ball	—	**55GZ60**
8"	1,200 lb	½"	2¼"	Yes	Precision Ball	—	**55GZ59**
	2,080 lb	¾"	3½"	No	Precision Ball	—	**55GZ62**
Steel Tread Wheels							
5⅞"	8,815 lb	1¾"	2⅜"	No	Precision Ball	Gray	**489A89**
6"	1,800 lb	½"	2 7/16"	No	Roller	Blue	**29XU93**
	2,500 lb	½"	2¼"	No	Precision Ball	Gray	**4DU73**
	2,500 lb	¾"	2¼"	No	Roller	Gray	**423J17**
	4,000 lb	¾"	3¼"	No	Precision Ball	Silver	**4DU74**
	5,000 lb	¾"	3¼"	No	Roller	Silver	**52YU31**
	5,000 lb	¾"	3½"	No	Roller	Blue	**29XU94**
	6,000 lb	1"	3¼"	No	Roller	Silver	**5VJ73**
	10,000 lb	1¼"	3½"	No	Tapered Roller	Blue	**29XU95**
	12,000 lb	1¼"	3¼"	No	Tapered Roller	Silver	**5VJ75**
8"	5,000 lb	¾"	3¼"	No	Roller	Silver	**52YU36**
	6,000 lb	1"	3¼"	No	Roller	Silver	**5VJ91**
	7,000 lb	¾"	3¼"	No	Precision Ball	Silver	**4DU75**
	10,000 lb	1¼"	3½"	No	Tapered Roller	Blue	**29XU97**
	14,000 lb	1¼"	3½"	No	Tapered Roller	Silver	**52YU33**
10"	6,500 lb	¾"	3¼"	No	Precision Ball	Silver	**4DU76**
Heat-Resistant Steel Tread Wheels							
4"	1,100 lb	½"	2½"	Yes	Precision Ball	—	**55GZ66**
6"	4,000 lb	¾"	3½"	No	Precision Ball	—	**55GZ61**
	5,000 lb	1¼"	3½"	Yes	Precision Ball	—	**55GZ67**
8"	4,500 lb	¾"	3½"	No	Precision Ball	—	**55GZ63**
	6,000 lb	1¼"	3½"	Yes	Precision Ball	—	**55GZ68**
10"	6,700 lb	1¼"	4¼"	Yes	Precision Ball	—	**55GZ69**
12"	7,000 lb	1¼"	4½"	Yes	Precision Ball	—	**55GZ70**

Polyurethane Tread
2LE91

Thermoplastic Rubber Tread
483N33

Antimicrobial Wheels

Wheels are impregnated with an antimicrobial compound that stops damaging, odor-causing microbes from growing on them. Lightweight, corrosion-resistant plastic core. **Polyurethane** treads will not mark floors and are more resistant to abrasion and chemicals than rubber treads. **Rubber** treads are suitable for most floor types. **Thermoplastic rubber** treads withstand exposure to chemicals and water and will not damage floors.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel Bearing Type	Wheel/ Tread Hardness Rating	Wheel Color	Item No.
Polyurethane Tread								
3"	300 lb	½"	1 7/16"	No	Delrin	Hard	Teal	**2LE87**
3 ½"	360 lb	½"	1 7/16"	No	Delrin	Hard	Gray	**2LE89**
4"	400 lb	½"	1 7/16"	No	Delrin	Hard	Teal	**2LE91**
	550 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N30**
5"	440 lb	⅜"	1 7/16"	No	Delrin	Hard	Teal	**2LE93**
	750 lb	½"	2 3/16"	No	Roller	Hard	Gray	**2LU39**
6"	770 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N31**
	900 lb	½"	2 3/16"	No	Roller	Hard	Gray	**2LU41**
8"	880 lb	½"	2 3/16"	No	Precision Ball	Hard	Green	**483N32**
	1,000 lb	½"	2 3/16"	No	Roller	Hard	Gray	**2LE85**
Rubber Tread								
3 ½"	250 lb	½"	1 7/16"	No	Delrin	Firm	Teal	**2LU53**
Thermoplastic Rubber Tread								
3"	200 lb	⅜"	1 7/16"	No	Precision Ball	Firm	Gray	**483N33**
	250 lb	½"	1 7/16"	No	Delrin	Firm	Gray	**2LU51**
3 ½"	250 lb	⅜"	1 7/16"	No	Precision Ball	Firm	Teal	**2LU35**
4"	325 lb	⅜"	1 7/16"	No	Precision Ball	Firm	Teal	**2LU47**
5"	200 lb	⅜"	1 7/16"	No	Precision Ball	Firm	Gray	**2LU49**
8"	500 lb	½"	2 3/16"	No	Precision Ball	Firm	Gray	**2LU65**

20PM11

Conductive Rubber Tread Wheels

Wheels have a lightweight, corrosion-resistant plastic core and conductive rubber tread that disperses static electricity by letting it flow to the ground. Use on carts in medical settings, laboratories, computer rooms, cleanrooms, electronics manufacturing facilities, and other areas where static electricity buildup is a concern. Dissipate static electricity buildup that can damage equipment on carts, injure people who touch the carts, or cause sparks that can ignite flammable vapors near carts. Wheels have precision ball bearings and will not mark floors.

Wheel Dia.	Load Rating	For Axle Size	Hub Length	Includes Spanner Bushing	Wheel/Tread Hardness Rating	Item No.
3 ½"	225 lb	⅜"	1 ½"	No	Soft	**20PM11**
4"	250 lb	⅜"	1 ½"	No	Soft	**20PM12**
	300 lb	½"	2 3/16"	No	Firm	**20PM14**
5"	250 lb	⅜"	1 ½"	No	Soft	**20PM13**
	325 lb	½"	2 7/16"	No	Soft	**20PM15**
6"	410 lb	½"	2 7/16"	No	Soft	**20PM16**
8"	500 lb	½"	2 3/16"	No	Firm	**20PM17**

Polyurethane V-Groove
3G307

Steel V-Groove
52YU29

Steel Single-Flange
5VK07

Steel Dual-Flange
5VK06

V-Groove and Flanged Track Wheels

Track wheels fit into compatible steel tracks or rails and provide precise control over movement and alignment when installed on containers, racks, and other equipment that will be moving between two locations, such as from one machine to another, into and out of an oven, or between points on an assembly line. **V-groove** wheels have a V-shaped tread that mates with a compatible angle-iron track. Edges are flat and can roll on flat surfaces. **Single-flange** wheels have one flange that guides the wheels along a flat track or rail. Create less friction between the wheel and the track or rail than dual-flange wheels. **Dual-flange** wheels have two flanges that guide the wheels along a flat track or rail. Maintain alignment better than single-flange wheels in applications with impact loads, debris, or obstructions.

Wheel Dia.	Load Rating	Wheel/Tread Material	Wheel Bearing Type	For Axle Size	Wheel Color	Item No.
V-Groove						
4"	300 lb	Polyurethane	Roller	½"	Green	**3G307**
	400 lb	Iron	Roller	½"	Silver	**400K36**
	400 lb	Iron	Roller	⅜"	Silver	**400K35**
	600 lb	Steel	Roller	¾"	Red	**5VJ44**
	800 lb	Iron	Roller	½"	Black	**1NWB8**
	800 lb	Iron	Roller	½"	Black	**1NWF9**
	800 lb	Iron	Roller	¾"	Black	**5VJ53**
	850 lb	Stainless Steel	Precision Ball	½"	Silver	**1UBN1**
5"	800 lb	Iron	Roller	½", ¾"	Silver	**3G299**
	900 lb	Iron	Roller	½"	Black	**1NWG1**
5 ⅞"	1760 lb	Steel	Precision Ball	¾"	Silver	**454Y24**
6"	900 lb	Iron	Roller	¾"	Black	**1NWC1**
	1000 lb	Iron	Roller	¾"	Red	**5VJ80**
	1200 lb	Iron	Roller	½"	Black	**1NWB9**
	1200 lb	Stainless Steel	Precision Ball	½"	Silver	**1UBN3**
	2500 lb	Iron	Roller	1"	Red	**5VJ71**
	4500 lb	Steel	Roller	1"	Silver	**52YU37**
	5000 lb	Steel	Tapered Roller	¾"	Silver	**52YU29**
	7000 lb	Steel	Tapered Roller	¾"	Blue	**29XU91**
7 ⅞"	2204 lb	Steel	Precision Ball	¾"	Silver	**454N71**
8"	15,000 lb	Steel	Precision Ball	1 ¼"	Gray	**5VK01**
	550 lb	Steel	Tapered Roller	¾"	Silver	**52YU30**
	2000 lb	Iron	Roller	¾"	Black	**1NWG5**
	2500 lb	Steel	Roller	1"	Red	**5VJ81**
	6500 lb	Steel	Roller	1"	Silver	**52YU38**
	6500 lb	Steel	Roller	1 ¼"	Silver	**52YU19**
10"	2500 lb	Metal	Roller	1 ¼"	Red	**52YU17**
	3000 lb	Steel	Roller	1"	Red	**5VJ30**
Single-Flange						
3 ½"	1400 lb	Iron	Roller	¾"	Red	**5VK03**
4 15/16"	1500 lb	Iron	Roller	¾"	Red	**5VK05**
4 ½"	3000 lb	Steel	Roller	1"	Red	**5VK04**
5"	4300 lb	Steel	Roller	1"	Gray	**5VK07**
6 ⅛"	2500 lb	Iron	Roller	1"	Red	**5VK09**
8"	4500 lb	Iron	Roller	1"	Red	**5VK10**
Dual-Flange						
5"	5000 lb	Steel	Roller	1"	Silver	**5VK06**
6"	2500 lb	Iron	Roller	1"	Red	**5VK08**

Tread Type Information

TREAD TYPE

Tread refers to the part of a wheel that makes contact with a surface when rolling. Wheel treads may be smooth, or they may have ridges, bumps, or other features that provide maneuverability or traction.

Ribbed—Provides good contact on many surfaces.

Sawtooth—Provides traction and maneuverability on turf and grass.

Diamond—Offers two-way traction on soft ground or snow.

Centipede—Keeps wheels from slipping.

Smooth—Allows wheels to roll on tacky surfaces such as tar or asphalt.

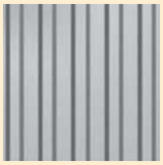
Knobby—Offers traction on soft ground or snow.

Turf—Provides traction and helps prevents damage when rolling on lawns and other soft surfaces.

HUB TYPE

Center-mount hubs have equal clearance on all sides of the hub.

Offset hubs provide extra clearance between the wheel and the equipment it is mounted on.

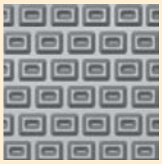

Ribbed

Sawtooth

Diamond

Centipede

Smooth


Knobby

Turf

Center-Mount Hub w/ Centipede Tread 2RZJ3

Offset Hub w/ Sawtooth Tread 4DE47

Center-Mount Hub 1NWZ9

Offset Hub 1NXA2

Pneumatic Wheels

MARASTAR

Wheels are filled with air to cushion loads against shock and vibration. Provide a quieter, more cushioned ride than semipneumatic and flat-free wheels but require maintenance to keep them filled to the correct pressure. Can be punctured and are recommended for areas without sharp debris.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Tread Color	Brand	PNEUMATIC WHEEL Item No.	REPLACEMENT TIRE AND INNER TUBE KIT Item No.	REPLACEMENT TIRE Item No.	REPLACEMENT INNER TUBE Item No.
Center-Mount Steel Hub										
Centipede Tread										
6"	1"	150 lb	½"	2 7⁄16"	Black	—	**53CM80**	—	—	—
	1 ¾"	200 lb	½"	2 7⁄16"	Gray	Marastar	**26W995**	—	—	—
6¼"	2 ½"	200 lb	½"	2 ¼"	Gray	—	**2RZJ3**	—	—	—
Diamond Tread										
15⅜"	3 ⅜"	670 lb	⅝"	6"	Black	—	**1NWV6**	—	**1NWY1**	—
Ribbed Tread										
13"	3 ¼"	350 lb	⅝"	4"	Black	—	**1NWV2**	—	**32RU45**	—
13 3⁄16"	3 ⅝"	350 lb	⅝"	6"	Black	—	**1NWV3**	—	**1NWX6**	**1NWX7**
15 3⁄16"	3 ⅛"	435 lb	⅝"	4"	Black	—	**1NWV4**	—	**1NWX8**	—
15⅜"	3 ⅛"	435 lb	⅝"	6"	Black	—	**1NWV5**	—	**1NWX8**	—
	3 ⅜"	435 lb	¾"	6"	Black	—	**1NWV7**	—	**1NWX8**	**1NWY2**
	3 ½"	670 lb	¾"	6"	Black	—	**1NWV8**	**1NWX9**	—	**1NWY2**
Sawtooth Tread										
8"	2 ⅜"	220 lb	½"	3"	Black	—	**1NWU2**	**1NWX1**	—	**32RU43**
	4 ⅞"	295 lb	½"	3 ½"	Black	—	**1NWU3**	**1NWX1**	—	—
8½"	2"	220 lb	½"	3 ½"	Gray	Marastar	**26W996**	—	—	—
	2"	250 lb	½"	3 ½"	Black	—	**53CM81**	—	—	—
9"	2 ½"	300 lb	½"	3 ⅛"	Gray	—	**2RZJ4**	—	—	—
10"	2 ⅛"	350 lb	½"	3 ½"	Black	—	**1NWU7**	**1NWX2**	—	—
	3"	230 lb	⅝"	3 ¼"	Black	—	**1NWU6**	**1NWX2**	—	**1NWX4**
	3"	300 lb	¼"	3 ½"	Black	—	**53CM82**	—	—	—
	3"	300 lb	½"	3 ½"	Gray	Marastar	**26W997**	—	—	—
10⅝"	2 ½"	350 lb	½"	3 ¾"	Gray	—	**2RZJ5**	**1NWX2**	—	—
12¼"	1 ⅞"	445 lb	¾"	4 ½"	Black	—	**1NWV1**	—	—	—
	2 ⅛"	290 lb	⅝"	3 ¼"	Black	—	**1NWU8**	—	**1NWX5**	**32RU44**
	3 ½"	290 lb	¾"	3 ¼"	Black	—	**1NWU9**	—	**1NWX5**	**1NWX7**
14¼"	2"	565 lb	¾"	4 ½"	Black	—	**1NWV9**	—	—	**32RU46**
Offset Steel Hub										
8"	2 ⅞"	300 lb	¾"	2 ⅞"	Black	—	**1NWU4**	**1NWX1**	—	—
10"	3"	300 lb	⅝"	2 ¼"	Black	—	**53CM94**	—	—	—
	4 ⅛"	230 lb	⅝"	2 ¼"	Black	—	**1NWU5**	—	**1NWX3**	—
Sawtooth Tread										
10"	3"	300 lb	⅝"	2 ¼"	Black	Marastar	**4DE47**	**1NWX2**	—	—

Semipneumatic Wheels

Wheels have a thick rubber wall with a nonpressurized air pocket in the center that cushions loads against shock and vibration. Will not go flat if punctured and can be used in areas that may contain sharp debris. Lighter than flat-free wheels, and require less maintenance than pneumatic wheels.

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Item No.
Center-Mount Steel Hub, Ribbed Tread					
6"	1 ½"	55 lb	½"	1 ⅜"	**1NXA6**
8"	1 ¾"	60 lb	½"	1 ⅜"	**1NXA7**
	1 ¾"	150 lb	½"	2 ⅛"	**1NXA8**
10"	1 ¾"	80 lb	½"	1 ½"	**1NXA9**
	1 ¾"	200 lb	⅝"	2 ¼"	**1NXC1**
	2 ½"	200 lb	¾"	2 ¾"	**1NXC2**
	3 ⅞"	300 lb	⅝"	3 ¼"	**1NWZ1**
12"	1 ¾"	90 lb	½"	1 ½"	**1NXB1**
	3 ⅞"	140 lb	⅝"	3 ¼"	**1NXC3**
	3 ⅞"	185 lb	¾"	3 ¼"	**1NXC4**
14"	1 ¾"	100 lb	½"	2 ⅛"	**1NXB2**
	1 ¾"	175 lb	⅝"	2 ⅛"	**1NXB3**
16"	3 ⅝"	450 lb	¾"	6"	**1NWZ9**
	3 ⅝"	450 lb	1"	4"	**1NWZ8**
Offset Steel Hub, Diamond Tread					
6"	3 ⅝"	50 lb	½"	1 ⅜"	**1NXA2**
	3 ⅝"	55 lb	½"	1 ⅜"	**1NXA1**
7"	3 ⅝"	55 lb	½"	1 ⅜"	**1NXA3**
8"	2 ⅝"	60 lb	½"	1 ⅜"	**1NXA5**
	3 ⅜"	55 lb	½"	1 ⅜"	**1NXA4**

Flat-Free Wheels

Polyurethane foam wheels absorb more shock and provide a more cushioned ride than semipneumatic wheels. Do not require air pressure checks and will not go flat if punctured. Suitable for rolling over rough or uneven terrain in areas with sharp debris.

Center-Mount 16V340

Offset Hub 22NY39

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Brand	Item No.
Center-Mount Plastic Hub						
Ribbed Tread						
9⅞"	1 ⅞"	550 lb	⅝"	3 ¼"	Marastar	40N436
10"	3"	500 lb	¾"	3 ¼"	—	53CM91
Center-Mount Steel Hub						
Centipede Tread						
6"	2"	250 lb	½"	2 7/16"	—	53CM75
8"	1 ½"	280 lb	½"	2 7/16"	Marastar	16V340
	2"	300 lb	½"	2 7/16"	—	53CM76
Knobby Tread						
15½"	3 ¼"	500 lb	⅝"	6"	Marastar	46G098
	3 ½"	500 lb	¾"	3"	Marastar	46G099
	4"	375 lb	⅝"	6"	—	53CM70
	4"	375 lb	¾"	3"	—	53CM71
Ribbed Tread						
6"	2"	200 lb	½"	2 ½"	—	1NWY3
	3 ½"	200 lb	⅝"	2 ¼"	—	1NXB4
	3 ⅜"	200 lb	⅝"	2 ¼"	—	1NWY7
6⅛"	3 ½"	250 lb	¾"	2 ¼"	—	1NXB6
8"	2 13/32"	250 lb	⅝"	2 ¾"	—	1NXB8
	3 ⅞"	250 lb	¾"	2 ¾"	—	1NXB9
	3 ⅛"	350 lb	½"	3"	—	1NWY4
	3 ⅜"	350 lb	⅝"	2 ¾"	—	1NWY8
	3 ¼"	400 lb	⅝"	2 ½"	—	1NWZ4
	4"	350 lb	¾"	2 ¾"	—	1NWY9
10"	2 ½"	450 lb	⅝"	3 ¼"	—	1NWZ7
	3 ¼"	300 lb	¾"	3"	—	1NWZ2
	3 ⅛"	350 lb	½"	3 ½"	—	1NWY5
12"	2"	600 lb	⅝"	3 ¼"	Marastar	40N438
	3 ¼"	300 lb	¾"	3 ¼"	—	1NWZ3
	3 ⅜"	540 lb	½"	3 ½"	—	1NWY6
13 5/16"	3"	600 lb	¾"	3 ¼"	Marastar	40N439
	1 ⅞"	350 lb	¾"	3"	Marastar	46G090
	2"	350 lb	⅝"	3"	Marastar	46G089
	2 ½"	350 lb	⅝"	6"	Marastar	46G091
15½"	3"	500 lb	⅝"	3"	Marastar	46G095
	3"	500 lb	⅝"	6"	Marastar	46G096
	3"	500 lb	¾"	3"	Marastar	46G097
	4"	375 lb	⅝"	3"	—	53CM67
	4"	375 lb	¾"	3"	—	53CM69
Sawtooth Tread						
6"	1"	100 lb	½"	2 ⅜"	—	53CM52
6⅛"	1 ½"	250 lb	½"	2 ⅜"	Marastar	46G080
8"	1 ¾"	150 lb	½"	2 ⅜"	Marastar	46G081
	2"	100 lb	½"	2 ⅜"	—	53CM53
8½"	3"	200 lb	½"	3"	—	53CM55
	3"	200 lb	¾"	3"	—	53CM47

Wheel Dia.	Wheel Width	Load Rating	For Axle Size	Hub Length	Brand	Item No.
8⅝"	3"	275 lb	½"	3"	Marastar	46G083
10"	3"	225 lb	⅝"	3 ½"	—	53CM57
	3"	225 lb	⅝"	4"	—	53CM49
	3"	225 lb	¾"	3 ½"	—	53CM58
	3"	225 lb	¾"	4"	—	53CM50
10 5/16"	1 ¾"	300 lb	⅝"	3 ½"	Marastar	46G085
	1 ¾"	300 lb	¾"	3 ½"	Marastar	46G086
12"	3"	325 lb	¾"	3"	—	53CM59
12 7/16"	1 ⅞"	400 lb	¾"	3"	Marastar	46G087
	1 ⅞"	400 lb	¾"	4 ½"	Marastar	46G088
15½"	3 ½"	675 lb	¾"	3"	—	53CM51
Smooth Tread						
9 5/16"	1 ¾"	300 lb	¾"	4"	Marastar	46G084
15½"	3 ⅝"	500 lb	1"	6"	Marastar	36LE96
	4"	425 lb	1"	6"	—	53CM42
Turf Tread						
6 5/16"	2 ½"	400 lb	¾"	3"	Marastar	46G094
13"	3 ½"	325 lb	¾"	3"	—	53CM64
13 5/16"	2 ½"	400 lb	¾"	3 1/16"	Marastar	46G092
13½"	2 ½"	400 lb	¾"	3 1/16"	Marastar	46G093
Offset Plastic Hub						
Ribbed Tread						
8"	1 ½"	500 lb	⅝"	2 ¼"	Marastar	16V338
9⅞"	1 ⅞"	550 lb	¾"	2 ¼"	Marastar	40N435
10"	2 ½"	450 lb	⅝"	2 ¼"	—	1NWZ6
	2"	500 lb	⅝"	2 ¼"	—	53CM72
Offset Steel Hub						
Centipede Tread						
10"	3"	440 lb	⅝"	2 ¼"	Marastar	16V341
10 3/16"	3"	390 lb	⅝"	2 ¼"	—	53CM77
Ribbed Tread						
6"	3 ½"	200 lb	⅝"	2 ¼"	—	1NXB5
	3 ½"	250 lb	¾"	2 ¼"	—	1NXB7
8"	2"	250 lb	½"	2 ¼"	—	53CM83
	4 ½"	400 lb	⅝"	2 ¼"	—	1NWZ5
Sawtooth Tread						
8⅜"	3 1/16"	275 lb	⅝"	2 ¼"	Marastar	46G082
8½"	3 ⅞"	300 lb	½"	2 ¼"	—	22NY37
10"	3"	225 lb	⅝"	2 ¼"	—	53CM41
	3 ⅝"	300 lb	⅝"	2 3/16"	Marastar	36LE95
	3"	350 lb	⅝"	2 ¼"	—	53CM95
10¼"	4 ¼"	350 lb	⅝"	2 ¼"	—	22NY38
10½"	1 ⅞"	350 lb	⅝"	2 ¼"	—	22NY39

General Purpose Floor Locks

Locks are made from zinc-plated steel. Mount on carts and other wheeled equipment. Foot pedal engages a spring-loaded brake pad that prevents equipment from moving.

For Wheel Dia.	Floor Lock Retracted Height	Floor Lock Extended Height	For Caster Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Item No.
4 in	4⅝"	6 in	5 ⅝ in	4 in x 4½ in	B	5VP58
	4⅞"	6 in	5 ⅝ in	4 in x 4½ in	B	16V371
5 in	5½"	6 13/16 in	6 ½ in	4 in x 4½ in	B	5VP59
	5¾"	6 11/16 in	5 ¾ in	4 1/32 in x 4 31/64 in	B	16V372
6 in	6⅝"	7 13/16 in	7 ¼ in	4 in x 4½ in	B	5VP60
	6⅝"	7 13/16 in	7 ½ in	4 in x 4½ in	B	5VR15
8 in	8⅜"	9 ¾ in	9 ½ in	4 in x 4½ in	B	5VP61
	9 1/16"	10 ½ in	10 ⅛ in	4 in x 4½ in	B	5VR16
	9 11/16"	9 11/16 in	8 ¾ in	4 1/32 in x 4 31/64 in	B	16V374

5VR16

Plate B

Heavy-Duty Adjustable-Height and Low-Profile Floor Locks

Locks have cast steel or stainless steel bodies and provide more strength and abrasion resistance than general purpose floor locks. **Adjustable-height** locks allow users to change the height of the locks' friction pads so they can be used with casters in a range of heights. Allows users to compensate for wear on the pads to maintain proper locking and unlocking action. **Low-profile** locks help ensure sufficient clearance when used on low-profile carts.

For Wheel Dia.	Floor Lock Retracted Height	Floor Lock Extended Height	For Caster Mounting Height	Mounting Plate Size	Mounting Plate Bolt Hole Pattern	Material	Item No.
Heavy-Duty							
6 in	6 ⅜ in	8 ⅛ in	7 ⅞ in	4½ in x 6 in	D	Steel	16D135
	6 ½ in	8 1/16 in	8 in	6 in x 4½ in	D	Steel	16D136
Heavy-Duty Adjustable-Height							
4 in, 5 in, 6 in	5 in	6 ⅛ in to 8 in	6 ¼ in to 8 in	4½ in x 6½ in	M	Steel	1VJN4
	5 in	6 ⅛ in to 8 in	6 ⅛ in to 8 in	4½ in x 6½ in	B	Stainless Steel	2EMZ8
6 in, 8 in	6 ¼ in	11 ½ in	6 ¼ in to 9 ½ in	4½ in x 6½ in	M	Stainless Steel	2EMZ9
	6 ⅜ in	11 ½ in	8 ¼ in to 11 ½ in	4½ in x 6½ in	M	Steel	1VJN5
Heavy-Duty Low-Profile Adjustable-Height							
—	3 ⅞ in	4 ⅜ in	4 9/16 in	5½ in x 5½ in	D	Steel	2GWZ8

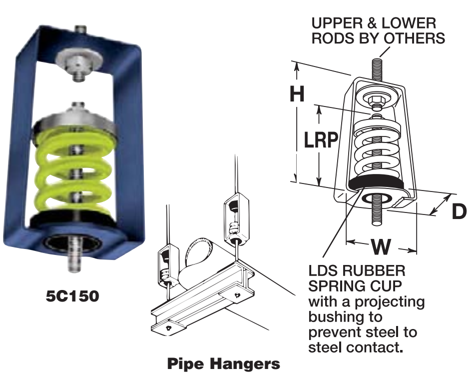
16D136

1VJN4

Plate B

Plate D

Plate M

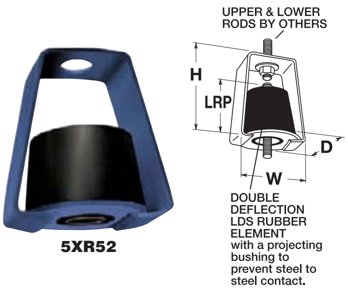


Spring Hanger Vibration Isolators

MASON INDUSTRIES

Steel springs reduce vibration transmission 2 to 6 times better than neoprene, as performance improves with larger deflections. LDS (Low Dynamic Stiffness) rubber cups under the springs and a projecting rubber bushing prevent sound transmission.

Cap. Range	Deflection Range	D	H	W	Lower Rod Penetration	Max. Rod Dia.	Spring Color	Brand	Item No.
55 to 76 lb	0.75 in to 1.02 in	—	4 ¼ in	2 ⅞ in	3 ½ in	⅜ in	Black	—	**48PW81**
80 to 113 lb	0.75 in to 1.00 in	—	4 ¼ in	2 ⅞ in	3 ½ in	⅜ in	Yellow	—	**48PW82**
130 to 175 lb	0.75 in to 1.00 in	—	4 ¼ in	2 ⅞ in	3 ½ in	⅜ in	Silver	—	**48PW83**
162 to 210 lb	0.75 in to 1.00 in	—	4 ¼ in	2 ⅞ in	3 ½ in	⅜ in	Blue	—	**48PW85**
230 to 310 lb	0.75 in to 1.00 in	—	5 ¾ in	3 ¼ in	4 in	⅝ in	Yellow	—	**48PW86**
300 to 400 lb	0.75 in to 1.00 in	—	5 ¾ in	3 ¼ in	4 in	⅝ in	Green	—	**48PW84**
380 to 510 lb	0.75 in to 1.00 in	2 ¾ in	5 ¾ in	3 ¼ ft	4 in	⅝ in	Red	Mason	**5XR57**
460 to 625 lb	0.75 in to 1.00 in	2 ¾ in	5 ¾ in	3 ¼ in	4 in	⅝ in	White	Mason	**5C147**
500 to 750 lb	0.75 in to 1.12 in	4 in	7 ¼ in	4 ¾ in	4 ¼ in	¾ in	White	Mason	**5C148**
750 to 1000 lb	0.75 in to 1.00 in	4 in	7 ¼ in	4 ¾ in	4 ¼ in	¾ in	Blue	Mason	**5C150**
940 to 1250 lb	0.75 in to 1.00 in	4 in	7 ¼ in	4 ¾ in	4 ¼ in	¾ in	Gray	Mason	**5C151**



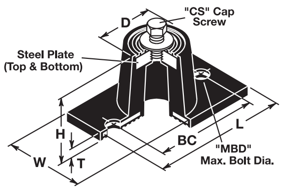
LDS (Low Dynamic Stiffness) Rubber Hanger Vibration Isolators

MASON INDUSTRIES

Reduce noise transmission and vibration from equipment running over 1000 rpm. General purpose double deflection for ceiling-suspended mechanical equipment and piping.

Cap. Range	Deflection Range	D	H	W	Lower Rod Penetration	Max. Rod Dia.	Color Mark	Brand	Item No.
10 to 35 lb	0.05 in to 0.20 in	—	2 13⁄32 in	2 in	1 ¼ in	⅜ in	Green	—	**48PW75**
30 to 75 lb	0.10 in to 0.20 in	—	2 13⁄32 in	2 in	1 ¼ in	⅜ in	White	—	**48PW76**
20 to 45 lb	0.18 in to 0.35 in	—	2 ¾ in	2 ¼ in	1 ¾ in	½ in	Black	—	**48PW78**
40 to 75 lb	0.18 in to 0.35 in	—	2 ¾ in	2 ¼ in	1 ¾ in	½ in	Green	—	**48PW77**
60 to 125 lb	0.18 in to 0.35 in	—	2 ¾ in	2 ¼ in	1 ¾ in	½ in	Red	—	**48PW79**
115 to 235 lb	0.20 in to 0.40 in	—	4 ½ in	4 ¼ in	3 in	¾ in	Red	—	**48PW80**
190 to 380 lb	0.24 in to 0.40 in	3 ¼ in	4 ½ in	4 ¼ in	3 in	¾ in	White	Mason	**5C011**
325 to 650 lb	0.24 in to 0.40 in	3 ¼ in	4 ½ in	4 ¼ in	3 in	¾ in	Yellow	Mason	**5XR52**
500 to 1000 lb	0.24 in to 0.40 in	3 ¼ in	4 ½ in	4 ¼ in	3 in	¾ in	Blue	Mason	**5XR53**

4C991

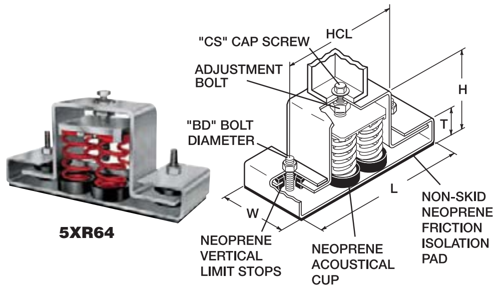


Floor-Mount Vibration Isolators

MASON INDUSTRIES

Thicker, taller vibration isolators provide more deflection than isolation pads. Neoprene bottom eliminates the need for bolting to floor. Mountings are oil-resistant. Include top bolts and washers.

		Dimensions										
Capacity Range	Deflection	H	D	L	T	MBD	W	BC	Cap Screw Dia. and Length	Color Mark	Brand	Item No.
15 to 45 lb	0.20" to 0.40"	1½"	1⁷⁄₆₄"	3³⁄₁₆"	¼"	—	1³⁹⁄₆₄"	2¹³⁄₃₂"	M8 x 30mm	Black	—	**48PW87**
40 to 75 lb	0.25" to 0.50"	1½"	1⁷⁄₆₄"	3³⁄₁₆"	¼"	—	1³⁹⁄₆₄"	2¹³⁄₃₂"	M8 x 30mm	Green	—	**48PW90**
60 to 125 lb	0.20" to 0.40"	1½"	1⁷⁄₆₄"	3³⁄₁₆"	¼"	—	1³⁹⁄₆₄"	2¹³⁄₃₂"	M8 x 30mm	Red	—	**48PW88**
85 to 175 lb	0.25" to 0.50"	1²⁹⁄₃₂"	1²¹⁄₃₂"	3⁵⁄₆₄"	¹³⁄₃₂"	—	2²¹⁄₆₄"	3"	M10 x 30mm	Green	—	**48PW91**
125 to 250 lb	0.25" to 0.50"	1²⁹⁄₃₂"	1²¹⁄₃₂"	3⁵³⁄₆₄"	¹³⁄₃₂"	—	2²¹⁄₆₄"	3"	M10 x 30mm	Red	—	**48PW89**
190 to 380 lb	0.25" to 0.50"	1²⁹⁄₃₂"	1²¹⁄₃₂"	3⁵⁄₆₄"	¹³⁄₃₂"	—	2²¹⁄₆₄"	3"	M10 x 30mm	White	—	**48PW92**
550 to 1100 lb	0.25" to 0.50"	2¾"	2³⁵⁄₆₄"	5½"	¹³⁄₃₂"	—	3¹⁹⁄₆₄"	4⅛"	M12 x 30mm	Yellow	—	**48PW94**
275 to 550 lb	0.25" to 0.50"	2¾"	2⁹⁄₁₆"	5½"	¼"	½"	3⁵⁄₁₆"	4⅛"	½ x 1 in	Red	Mason	**4C991**
375 to 750 lb	0.25" to 0.50"	2¾"	2⁹⁄₁₆"	5½"	¼"	½"	3⁵⁄₁₆"	4⅛"	½ x 1 in	White	Mason	**4C992**
300 to 600 lb	0.25" to 0.50"	1²⁹⁄₃₂"	1²¹⁄₃₂"	3⁵⁄₆₄"	¹³⁄₃₂"	—	2²¹⁄₆₄"	3"	M10 x 30mm	Yellow	—	**48PW93**
1150 to 2300 lb	0.25" to 0.50"	2¾"	3⅜"	6¼"	⁵⁄₁₆"	½"	4"	5"	½ x 1 in	Yellow	Mason	**4C995**
2150 to 4300 lb	0.25" to 0.50"	2¾"	3⅜"	6¾"	⁵⁄₁₆"	½"	4⅜"	5½"	½ x 1 in	Yellow	Mason	**4C997**



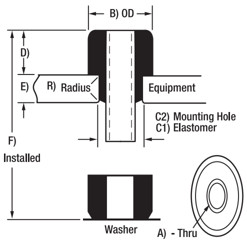
Floor-Mount Seismic and Wind Vibration Isolators

MASON INDUSTRIES

Combine spring floor-mount vibration isolators and neoprene vertical limit stops for greater safety. G ratings meet the horizontal requirements of most seismic zones.

			Dimensions								
Capacity Range	Deflection	Max. Horiz. G Rating	H	L	T	W	BD	CS	HCL	Spring Color	Item No.
35 to 75 lb	0.75" to 1.50"	10.7"	11½"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Orange	**5XR76**
76 to 125 lb	0.75" to 1.33"	6.4"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Brown	**5XR70**
130 to 200 lb	0.75" to 1.15"	4.0"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Black	**5XR71**
230 to 310 lb	0.75" to 1.00"	2.6"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Yellow	**5XR72**
300 to 400 lb	0.75" to 1.00"	2.0"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Green	**5XR73**
380 to 510 lb	0.75" to 1.00"	1.6"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	Red	**5XR74**
460 to 625 lb	0.75" to 1.00"	1.3"	5⅛"	8¾"	1⅝"	2½"	⅜"	⅜ x 1"	6"	White	**5XR75**
600 to 800 lb	0.75" to 1.00"	1.3"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	Green	**5XR66**
765 to 1020 lb	0.75" to 1.00"	1.0"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	Red	**5XR64**
940 to 1250 lb	0.75" to 1.00"	0.8"	5⅛"	11⅝"	1¾"	2½"	⅜"	⅜ x 1"	8¾"	White	**5XR65**

Shown Apart
2NPG8



2-Pc. Center-Bonded Mounts

Isolate unwanted noise, vibration, and shock in all directions, including rebound direction. Easily installed through a supporting structure mounting hole. Neoprene elastomer effectively resists flame, gasoline, oil, natural aging, abrasion, and weather. Zinc-plated steel snubbing washer included.

Warning: Not suitable for exposures over 165°F.

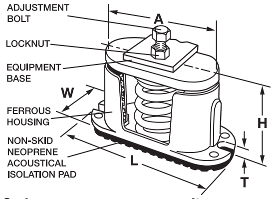
		Dimensions										
Max. Load Radial	Max. Load Axial	A	B	C1	C2	D	E	F	R	Structural Support Thick	Durometer Hardness	Item No.
80 lb	130 lb	0.39"	1.31"	0.75"	0.79"	⅖"	0.38"	1.25"	0.04"	0.38"	60"	**2NPG8**
120 lb	200 lb	0.531"	1.88"	1.25"	1.3"	³⁹⁄₅₀"	0.5"	1.94"	0.06"	0.5"	60"	**2NPG9**
280 lb	380 lb	0.657"	2.55"	1.5"	1.58"	⁹⁄₁₀"	0.75"	2.45"	0.09"	0.75"	60"	**2NPH1**

MASON INDUSTRIES

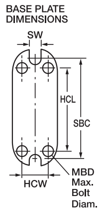
Floor-Mount Spring Vibration Isolators

Performance improves as deflections increase. Sponge rubber guides improve stability. Bolt to beam; nonskid pads reduce need for bolting to floors. Select mounting based on weight distribution.

5C131



Capacity Range	Deflection	Dimensions A	H	L	T	W	HCL	HCW	MBD	SBC	SW	Bolt Size	Spring Color	Brand	Item No.
35 to 75 lb	0.75 in to 1.50 in	4 in	4 ½ in	5 ¾ in	½ in	2 5⁄32 in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	M10 x 100mm	Orange	—	**48PW95**
76 to 125 lb	0.75 in to 1.33 in	4 in	4 ½ in	5 ¾ in	½ in	2 5⁄32 in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	M10 x 100mm	Brown	—	**48PW96**
130 to 200 lb	0.75 in to 1.15 in	4 in	4 ½ in	5 ¾ in	½ in	2 5⁄32 in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	M10 x 100mm	Black	—	**48PW97**
230 to 310 lb	0.75 in to 1.00 in	4 in	4 ½ in	5 ¾ in	½ in	2 5⁄32 in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	M10 x 100mm	Yellow	—	**48PW98**
300 to 400 lb	0.75 in to 1.00 in	4 in	4 ½ in	5 ¾ in	½ in	2 5⁄32 in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	M10 x 100mm	Green	—	**48PW99**
380 to 510 lb	0.75 in to 1.00 in	4 in	4 ½ in	5 ¾ in	½ in	2 ⅛ in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	⅜ x 4 in	Red	Mason	**5C131**
460 to 625 lb	0.75 in to 1.00 in	4 in	4 ½ in	5 ¾ in	½ in	2 ⅛ in	4 ¾ in	1 in	¼ in	5 in	5⁄16 in	⅜ x 4 in	White	Mason	**5C132**
500 to 750 lb	0.75 in to 1.12 in	5.75 in	5 ⅝ in	8 ¼ in	½ in	2 ¾ in	6 ½ in	1 ½ in	⅜ in	7 ¼ in	7⁄16 in	½ x 4 in	White	Mason	**5C133**
750 to 1000 lb	0.75 in to 1.00 in	5.75 in	5 ⅝ in	8 ¼ in	½ in	2 ¾ in	6 ½ in	1 ½ in	⅜ in	7 ¼ in	7⁄16 in	½ x 4 in	Blue	Mason	**5XR50**
940 to 1250 lb	0.75 in to 1.00 in	5.75 in	5 ⅝ in	8 ¼ in	½ in	2 ¾ in	6 ½ in	1 ½ in	⅜ in	7 ¼ in	7⁄16 in	½ x 4 in	Gray	Mason	**5C136**
1240 to 1650 lb	0.75 in to 1.00 in	5.75 in	5 ⅝ in	8 ¼ in	½ in	2 ¾ in	6 ½ in	1 ½ in	⅜ in	7 ¼ in	7⁄16 in	½ x 4 in	Black	Mason	**5C137**
1575 to 2100 lb	0.75 in to 1.00 in	6.625 in	5 ⅝ in	8 ⅞ in	9⁄16 in	3 ½ in	7 ¼ in	1 ¾ in	⅜ in	7 ⅞ in	7⁄16 in	⅝ x 4½ in	Yellow	Mason	**5XR51**
1990 to 2650 lb	0.75 in to 1.00 in	6.625 in	5 ⅝ in	8 ⅞ in	9⁄16 in	3 ½ in	7 ¼ in	1 ¾ in	⅜ in	7 ⅞ in	7⁄16 in	⅝ x 4½ in	Red	Mason	**5C140**



AirLoc®

Adjustable Jack Mounts/Vibration Isolators

Neoprene provides better equipment stability. Nitrile provides greater vibration damping.

Low-Profile—Provide low-profile leveling and isolation with attachment stud and hardware.

Higher-Floor Inclination—Automatically compensate for floor unevenness up to 4°. Include 2 nuts and 2 washers.

Internally Leveled—Provide up to 1" height adjustment. Include 1 nut and 1 washer.

Nitrile Low-Profile 15D910

Higher-Floor Inclination 3ECP3

Internally Leveled 3ECR5

Thread Size	Bolt Length	Dia.	W	NEOPRENE H	L	Load Capacity	Item No.	Pkg. Qty.	NITRILE H	L	Load Capacity	Item No.	Pkg. Qty.
Low Profile Adjustable Leveler with Stud													
M12	5 in	—	2 in	13⁄16 in	2 in	50–120 lb.	**15D901**	4	⅞ in	2 in	140–360 lb.	**15D906**	4
M12	5 in	—	3 3⁄16 in	⅞ in	3 3⁄16 in	120–340 lb.	**15D902**	4	1 in	3 3⁄16 in	360–1,360 lb.	**15D907**	4
M16	5 in	—	4 13⁄16 in	1 in	4 13⁄16 in	340–840 lb.	**15D903**	4	1 1⁄16 in	4 13⁄16 in	1,360–3,000 lb.	**15D908**	4
M20	7 in	—	5 11⁄16 in	1 ⅛ in	5 11⁄16 in	840–1,200 lb.	**15D904**	4	1 3⁄16 in	5 11⁄16 in	3,000–4,900 lb.	**15D909**	4
M24	7 in	—	6 7⁄16 in	1 ¼ in	9 9⁄16 in	1,200–2,280 lb.	**15D905**	4	1 5⁄16 in	9 7⁄16 in	4,900–7,800 lb.	**15D910**	4
Leveling Mount, Higher Floor Inclination													
M12	4 in	3⅜"	—	5.5 in	—	750–2400 lb	**3ECP6**	1	—	—	—	—	
M16	4 in	4 15⁄16"	—	6 in	—	2400–5400 lb	**3ECP7**	1	6 in	—	1600–3600 lb	**3ECP3**	1
M20	4 in	6 11⁄16"	—	6 in	—	5400–8000 lb	**3ECP8**	1	6 in	—	3600–7200 lb	**3ECP4**	1
M24	4 in	9 1⁄16"	—	6 in	—	8000–10,800 lb	**3ECP9**	1	6 in	—	7200–10,800 lb	**3ECP5**	1
Leveling Mount													
M12	4 in	3 ⅜ in	—	—	—	—	—		1 ½ in	—	500–1,600 lb.	**3ECP2**	1
Leveling Mount, Internally Leveled													
M12	5 in	4"	—	7 in	—	750–2700 lb	**3ECR7**	1	7 in	—	500–1800 lb	**3ECR1**	1
M16 x 1.5	7 in	4 13⁄16"	—	9 in	—	2700–3200 lb	**3ECR8**	1	—	—	—	—	
M20	7 in	6⅝"	—	9.0625 in	—	3200–6300 lb	**3ECR9**	1	9.0625 in	—	2700–5400 lb	**3ECR3**	1
M24	7 in	8 1⁄16"	—	9.125 in	—	6300–7200 lb	**3ECT1**	1	9.125 in	—	5400–7200 lb	**3ECR4**	1
M24	7 in	10¼"	—	9 in	—	7200–14,400 lb	**3ECT2**	1	9.375 in	—	7200–14,400 lb	**3ECR5**	1
M30	7 in	12"	—	9.875 in	—	14,400–18,000 lb	**3ECT3**	1	9.875 in	2⅞"	14,400–18,000 lb	**3ECR6**	1
M16	7 in	4 13⁄16"	—	—	—	—	—		9 in	—	1800–2700 lb	**3ECR2**	1

Adjustable Wedge Mounts/Vibration Isolators

AirLoc®

Adjust within 1/1000" accuracy by wrench or socket head. Choose neoprene for better equipment stability, nitrile for greater vibration damping.

Bolt-On—Permanent attachment lets equipment move freely on flooring. Include bolt, nut, and washer.

Freestanding—Provide lateral and longitudinal stability when placed under equipment.

Bolt-On 3ECV2

Freestanding 3ECT4

Thread Size	Bolt Length	L	W	NEOPRENE H	Max. Steady Load	Item No.	NITRILE H	Max. Steady Load	Item No.
Bolt On									
M16	6 in	4 ½ in	4 ½ in	2 3⁄16 in	7200 lb	**3ECV9**	2 3⁄16 in	4500 lb	**3ECV2**
M16	6 in	5 ½ in	5 ½ in	2 ⅜ in	10,800 lb	**3ECW1**	2 ⅜ in	6800 lb	**3ECV3**
M20	6 in	6 11⁄16 in	6 11⁄16 in	2 11⁄16 in	14,400 lb	**3ECW2**	2 11⁄16 in	9900 lb	**3ECV4**
M20	6 in	7 1⁄16 in	9 1⁄16 in	3 1⁄16 in	18,000 lb	**3ECW3**	3 1⁄16 in	14,400 lb	**3ECV5**
M24	8 in	9 13⁄16 in	7 ⅞ in	3 ⅛ in	39,600 lb	**3ECW4**	3 ⅛ in	18,000 lb	**3ECV6**
M24	8 in	11 13⁄16 in	15 ¾ in	3 29⁄32 in	90,000 lb	**3ECW6**	3 29⁄32 in	43,200 lb	**3ECV8**

L	W	Neoprene Leveling Pads Top and Bottom H	Max. Steady Load	Item No.	Nitrile Damping Pads Top and Bottom H	Max. Steady Load	Item No.
Freestanding							
4 ⅛ in	2 3⁄16 in	1 21⁄32 in	4500 lb	**3ECU3**	2 11⁄32 in	2000 lb	**3ECT4**
5 ⅞ in	2 15⁄16	1 21⁄32 in	9000 lb	**3ECU4**	2 11⁄32 in	4000 lb	**3ECT5**
4½"	9 13⁄16 in	2 29⁄32 in	14,400 lb	**48RH30**	3 9⁄16 in	9900 lb	**48RH29**
7 ⅞ in	3 ¾ in	1 31⁄32 in	13,500 lb	**3ECU5**	2 19⁄32 in	6600 lb	**3ECT6**
7 ⅞ in	7 ⅞ in	1 31⁄32 in	25,000 lb	**3ECU6**	2 19⁄32 in	14,000 lb	**3ECT7**
9 13⁄16 in	7 ⅞ in	2 23⁄32 in	39,600 lb	**3ECU8**	3 11⁄32 in	18,000 lb	**3ECT9**
11 13⁄16 in	15 ¾ in	3 15⁄32 in	90,000 lb	**3ECV1**	4 ⅛ in	43,000 lb	**3ECU2**

Leveling Mounts/Vibration Isolators

MASON INDUSTRIES

Leveling Mounts—Machine rests on full surface of mount.

Stud Mounts—Machine rests on lower-leveling nut and washer.

Wedge Jack Mounts—Provide rigid support. Mating parts with spherical seats allow automatic adjustment up to 7° on uneven floors. Through-hole for bolting. 3½"W.

Leveling Mount 5C028

Stud Mount 2LVN5

Wedge Jack Mount 2LVN3

Load Capacity	Base Dia.	H	Bolt Length	L	Item No.
Leveling Mount - Leveling Range up to ⅝"					
500 lb	3 ½ in	4 in	3.5 in	—	**4C978**
1000 lb	5 in	6.75 in	5 in	—	**5C028**
4000 lb	6 ¼ in	6.75 in	5 in	—	**5C029**
12,000 lb	8 in	10 in	8 in	—	**5C030**
Stud Mount - Leveling Range up to 2"					
250 lb	2 ⅜ in	3.125 in	3 in	—	**2LVN5**
500 lb	3 in	4.875 in	4 in	—	**2LVN6**
1000 lb	3 ⅜ in	5 in	4 in	—	**2LVN7**
3000 lb	5 in	1.25 in	5 in	6¼"	**2LVN8**
6000 lb	6 ¾ in	1.375 in	6 in	7⅜"	**2LVN9**
Wedge Jack Mount - Leveling Range up to ⅜"					
15,000 lb.	—	3 in	—	6 in	**2LVN2**
20,000 lb.	—	3 ¼ in	—	6 ⅝ in	**2LVN3**

MASON INDUSTRIES

20UZ14

Neoprene Seismic Restrained Mounts

High-capacity, low-deflection (up to 0.15") floor mounts designed for earthquake zones feature all-direction, fail-safe steel housings. Provide high-frequency noise isolation of equipment. Excellent for truck and mobile applications.

Capacity Range	Color Mark	D	H	W	Item No.
0 to 525 lb	Green	3"	2 ½ in	4 ¾ in	**20UZ14**
0 to 1000 lb	White	3"	2 ½ in	4 ¾ in	**20UZ15**
0 to 2100 lb	Red	3¾"	2 ¾ in	6 ¼ in	**20UZ16**
0 to 3500 lb	White	3¾"	2 ¾ in	6 ¼ in	**20UZ17**

Female Threads Both Ends

Female Threads Top End, Male Threads Bottom End

Male Threads, Bottom End

Male Threads Both Ends

Male Threads Top End

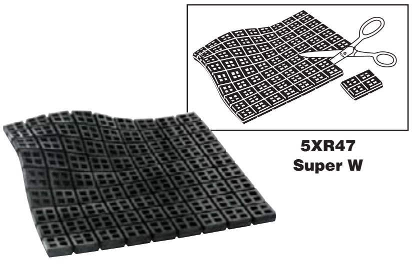
Cylindrical Vibration Isolators

Isolators are compression-mounted to control noise, vibration, and shock. 50 durometer, natural rubber pads are chemically bonded to steel with superior abrasion resistance and high tensile strength. Grade 5 screws are clear, zinc-plated.

Note: Not for wall- or ceiling-suspended installations. Not suitable for excess exposure to oil, grease, and solvents, or temps. over 150°F.

Max. Load Downward Compression (lb.)	Max. Load Sideways Shear (lb.)	Cylinder Dia.	H	Thread Length	Thread Size	Item No.
Female Threads Both Ends						
25	5	⅝ in	½ in	—	8-32	**2NPD2**
55	8	1 in	1 in	—	5/16-18	**2NPD3**
165	55	2 in	1 ⅝ in	—	⅜-16	**2NPD5**
170	40	1 ½ in	1 in	—	M8 x 1.25	**2NPD7**
170	40	1 ½ in	1 in	—	5/16-18	**2NPD6**
180	45	2 in	1 ⅜ in	—	⅜-16	**2NPD4**
210	30	1 in	½ in	—	¼-20	**2NPD8**
720	140	3 ⅛ in	2 ¼ in	—	½-13	**2NPD9**
Female Threads Top End, Male Threads, Bottom End						
7	1	⅜ in	½ in	½ in	8-32	**2NPE1**
20	3	⅝ in	½ in	½ in	8-32	**2NPE2**
31	4 ½	⅝ in	⅝ in	½ in	¼-20	**2NPE3**
50	15	1 in	¾ in	½ in	¼-20	**2NPE4**
50	15	1 in	¾ in	½ in	M6 x 1	**2NPE5**
55	8	1 in	1 in	⅝ in	5/16-18	**2NPE6**
55	8	1 in	1 in	⅝ in	M8 x 1.25	**2NPE7**
75	25	1 in	½ in	½ in	¼-20	**2NPE8**
80	15	1 ⅜ in	1 in	⅝ in	5/16-18	**2NPE9**
125	20	1 ½ in	1 in	⅝ in	5/16-18	**2NPF1**
125	20	1 ½ in	1 in	⅝ in	M8 x 1.25	**2NPF2**
165	55	2 in	1 ⅝ in	⅝ in	⅜-16	**2NPF5**
165	55	2 in	1 ⅝ in	⅝ in	M10 x 1.50	**2NPF6**
180	45	2 in	1 ⅜ in	⅝ in	⅜-16	**2NPF3**
180	45	2 in	1 ⅜ in	⅝ in	M10 x 1.50	**2NPF4**
720	140	3 ⅛ in	2 ¼ in	1 ¼ in	½-13	**2NPF7**
720	140	3 ⅛ in	2 ¼ in	1 ¼ in	M12 x 1.75	**2NPF8**
Male Threads, Bottom End						
20	—	15/16 in	⅝ in	½ in	¼-20	**2NPF9**

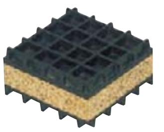
Max. Load Downward Compression (lb.)	Max. Load Sideways Shear (lb.)	Cylinder Dia.	H	Thread Length	Thread Size	Item No.
Male Threads Both Ends						
7	1	⅜ in	½ in	½ in	8-32	**2NNZ5**
20	3	⅝ in	½ in	½ in	8-32	**2NNZ6**
40	6	¾ in	¾ in	⅝ in	¼-20	**2NNZ7**
40	6	¾ in	¾ in	⅝ in	M6 x 1	**2NNZ8**
45	8	1 in	1 in	⅝ in	5/16-18	**2NNZ9**
50	9	1 in	¾ in	½ in	¼-20	**2NPA1**
50	9	1 in	¾ in	½ in	M6 x 1	**2NPA2**
50	9	1 in	¾ in	⅝ in	5/16-18	**2NPA3**
50	9	1 in	¾ in	⅝ in	M8 x 1.25	**2NPA4**
75	12	1 ¼ in	¾ in	½ in	¼-20	**2NPA5**
75	12	1 ¼ in	¾ in	⅝ in	5/16-18	**2NPA6**
75	12	1 ¼ in	¾ in	⅝ in	M8 x 1.25	**2NPA7**
80	15	1 ⅜ in	1 in	⅝ in	5/16-18	**2NPA8**
125	20	1 9/16 in	1 in	⅝ in	5/16-18	**2NPA9**
125	20	1 9/16 in	1 in	⅝ in	M8 x 1.25	**2NPC1**
125	20	1 9/16 in	1 in	⅝ in	⅜-16	**2NPC2**
125	20	1 9/16 in	1 in	⅝ in	M10 x 1.50	**2NPC3**
165	55	2 in	1 ⅝ in	⅝ in	⅜-16	**2NPC5**
180	45	2 in	1 ⅜ in	⅝ in	⅜-16	**2NPC4**
370	90	2 in	¾ in	1 ⅛ in	⅜-16	**2NPC6**
370	90	2 in	¾ in	1 ⅛ in	M10 x 1.50	**2NPC7**
460	155	2 ½ in	⅞ in	1 ⅛ in	⅜-16	**2NPC8**
720	140	3 ⅛ in	2 ¼ in	1 ¼ in	½-13	**2NPC9**
720	140	3 ⅛ in	2 ¼ in	1 ¼ in	M12 x 1.75	**2NPD1**
Male Threads Top End						
60	—	1 in	⅝ in	⅝ in	5/16-18	**2NPG3**
80	—	1 ⅝ in	1 in	⅝ in	5/16-18	**2NPG1**
80	—	1 ⅝ in	1 in	⅝ in	M8 x 1.25	**2NPG2**
125	—	1 ½ in	1 in	⅝ in	5/16-18	**2NPG4**
125	—	1 ½ in	1 in	⅝ in	M8 x 1.25	**2NPG5**
310	—	2 in	¾ in	1 ⅛ in	⅜-16	**2NPG6**
310	—	2 in	¾ in	1 ⅛ in	M10 x 1.50	**2NPG7**



5XR47
Super W

4C975
Type A

4C974
Type B



5C027
Neoprene & Cork

20UZ23
Nitrile Pad

Vibration Isolation Pads

MASON INDUSTRIES

Pads protect equipment from shaking and are designed for use when machines are bolted to the floor.

NEOPRENE

Pad modules are easy to cut to size. Self-gasketing waffle pattern helps contain spills and improves suction and grip.

Mini Super W Pads—Provide 1/16" max. deflection.

Super W Pads—Provide ⅛" max. deflection.

NEOPRENE AND STEEL

For concentrated loads such as heavy machines with small legs or formed sheet metal legs without a bottom surface.

Type A—Have a cemented steel plate between a bottom super waffle pad and top ¼" friction pad.

Type B—Have a ¾"-dia. center hole for bolting, no top friction pad. Includes ¾" neoprene isolation washer cemented to a steel washer.

NEOPRENE AND CORK

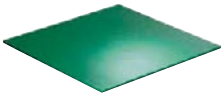
2 honeycombed neoprene sheets are adhered to a dense, granulated cork core.

NITRILE PADS

Oil-resistant pads are great for applications with constant exposure to oil, grease, or gasoline.

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene - Mini Super W 2" x 2" Modules 45 Duro.					
4 in	4 in	⅜ in	720 lb	**4C973**	2
6 in	6 in	⅜ in	1620 lb	**5C022**	1
18 in	18 in	⅜ in	180 per 2x2	**4C972**	1
Neoprene - Super W 2" x 2" Modules 45 Duro.					
2 in	2 in	¾ in	180 lb	**2LVR4**	2
3 in	3 in	¾ in	45 psi	**2LVR5**	2
4 in	4 in	¾ in	720 lb	**2LVR6**	2
6 in	6 in	¾ in	1620 lb	**2LVR7**	1
18 in	18 in	¾ in	180 per 2x2	**5XR47**	1
Neoprene - Super W 3" x 3" Modules 60 Duro.					
3 in	3 in	¾ in	600 lb	**20UZ18**	2
6 in	6 in	¾ in	2400 lb	**20UZ19**	2
18 in	18 in	¾ in	600 per 3x3	**20UZ20**	1
Neoprene and Steel - Type A					
4 in	4 in	1 ¼ in	800 lb	**2LVP1**	1
6 in	4 in	1 ¼ in	1200 lb	**4C975**	1
6 in	6 in	1 ¼ in	1800 lb	**2LVP3**	1
8 in	8 in	1 ¼ in	3200 lb	**2LVP4**	1
10 in	10 in	1 ¼ in	5000 lb	**2LVP5**	1
10 in	12 in	1 ¼ in	6000 lb	**2LVP6**	1

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene and Steel - Type B					
4 in	4 in	1 in	800 lb	**2LVP7**	1
6 in	4 in	1 in	1200 lb	**4C974**	1
6 in	6 in	1 in	1800 lb	**2LVP9**	1
8 in	8 in	1 in	3200 lb	**2LVR1**	1
10 in	10 in	1 in	5000 lb	**2LVR2**	1
Neoprene and Cork					
2 in	2 in	1 in	200 lb	**5C027**	2
3 in	3 in	1 in	450 lb	**4C976**	2
4 in	4 in	1 in	800 lb	**4C977**	2
6 in	6 in	1 in	1800 lb	**5XR49**	1
12 in	12 in	1 in	7200 lb	**5C026**	1
18 in	18 in	1 in	16,200 lb	**5C025**	1
Nitrile Pads (Highest Oil Resistance)					
6 in	6 in	5/16 in	7200 lb	**20UZ21**	2
18 in	18 in	5/16 in	200 psi	**20UZ22**	1
18 in	18 in	½ in	280 psi	**20UZ23**	1



3ECN7

3ECK4

Airloc®

Vibration Isolation Pads

Profile neoprene provides best isolation; flat neoprene provides better equipment stability. Nitrile provides greater vibration damping.

Precut Pad Packs—Provide 4 points of support. Include 4 primary pads and 4 shim pads. Use metal shim between pad surfaces to compensate different heights of equipment.

Elastomer Sheets—Reduce noise and vibration of equipment. Use whole or cut sheets to custom sizes.

L	W	H	Max. Steady Load	Item No.	Pkg. Qty.
Neoprene Elastomer Sheets					
19 11/16 in	19 11/16 in	½ in	58 psi	**3ECL7**	1
	19 11/16 in	1 in	87 psi	**3ECN2**	1
	39 ⅜ in	1 in	87 psi	**3ECN1**	1
	19 11/16 in	⅜ in	116 psi	**3ECL9**	1
	39 ⅜ in	⅜ in	116 psi	**3ECL8**	1
	19 11/16 in	⅝ in	464 psi	**3ECN8**	1
	39 ⅜ in	⅝ in	464 psi	**3ECN7**	1
	39 ⅜ in	1 in	464 psi	**3ECN9**	1
	19 11/16 in	1 in	464 psi	**3ECP1**	1
Neoprene Precut Pad Packs - Pkg. of 4					
2 in	2 in	¾ in	8500 lb	**3ECL3**	4
4 in	4 in	11/16 in	2500 lb	**3ECK5**	4
	4 in	¾ in	20,000 lb	**3ECL4**	4
6 in	6 in	¾ in	35,000 lb	**3ECL5**	4
8 in	8 in	¾ in	90,000 lb	**3ECL6**	4
Neoprene Precut Pad Packs - Pkg. of 8					
2 in	2 in	11/16 in	1000 lb	**3ECK4**	8
6 in	6 in	11/16 in	4000 lb	**3ECK6**	8
8 in	8 in	11/16 in	10,000 lb	**3ECK7**	8
Nitrile Elastomer Sheets					
19 11/16 in	19 11/16 in	⅝ in	232 psi	**3ECN4**	1
	39 ⅜ in	⅝ in	232 psi	**3ECN3**	1
	19 11/16 in	1 in	232 psi	**3ECN6**	1
	39 ⅜ in	1 in	232 psi	**3ECN5**	1
Nitrile Precut Pad Packs - Pkg. of 4					
2 in	2 in	¾ in	3500 lb	**3ECK8**	4
4 in	4 in	¾ in	8000 lb	**3ECK9**	4
6 in	6 in	¾ in	14,000 lb	**3ECL1**	4
8 in	8 in	¾ in	28,000 lb	**3ECL2**	4

2KMA7

Leveling Jacks

Designed for permanent installation, these screw-style jacks hold platforms and portable equipment in place and keep them stabilized. Typically, for use with work platform applications. Include folding crank handle.

Cap. (lb.)	Overall H (in.)	Min. Height Below Equip Frame (in.)	Max. Extended Height Below Equip Frame (in.)	Screw Travel	Finish	Item No.
5,000 lb	18 in	4 ½ in	13 ½ in	9 in	Stainless Steel	**2KMA7**
5,000 lb	26 in	4 ½ in	21 ½ in	17 in	Stainless Steel	**2KMA8**
5,000 lb	30 in	4 ½ in	25 ½ in	21 in	Chrome	**2KMA6**
5,000 lb	30 in	4 ½ in	25 ½ in	21 in	Stainless Steel	**2KMA9**

1XEX1

29AU76

Threaded Tube Ends

Material is glass-fiber reinforced polyamide based (PA) technopolymer. Resistant to solvents, oils, grease, and other chemical agents. Standard execution. Brass boss, threaded pass-through hole. Black matte finish.

Tube Wall Size	Brand	ROUND Outside Dia.	ROUND Load Capacity	Item No.	SQUARE Outside Dia.	SQUARE Load Capacity	Item No.
1 in Thread Size							
0.079 in	Elesa	1.75 in	1,232 lb	**29AU90**	—	—	—
⅜-16 Thread Size							
0.065 in	S & W	1.5 in	1,500 lb	**1XEY1**	1 ½ in sq	1,500 lb	**1XEX1**
	Elesa	—	—	—	1.5 in	1,344 lb	**29AU81**
½-13 Thread Size							
0.065 in	S & W	1.5 in	1,500 lb	**1XEY2**	1 ½ in sq	1,500 lb	**1XEX2**
	S & W	2 in	2,000 lb	**1XEY4**	2 in sq	2,000 lb	**1XEX6**
	Elesa	1.5 in	1,120 lb	**29AU85**	—	—	—
0.12 in	S & W	—	—	—	1 ½ in sq	1,500 lb	**1XEX4**
	S & W	—	—	—	2 in sq	2,000 lb	**1XEX7**
	Elesa	—	—	—	1.5 in	1,344 lb	**29AU82**
27/49 Thread Size							
0.079 in	Elesa	1.181 in	1,008 lb	**29AU77**	1.378 in	1,344 lb	**29AU75**
	Elesa	1.654 in	1,120 lb	**29AU79**	—	—	—
⅝-11 Thread Size							
0.065 in	S & W	1.5 in	1,500 lb	**1XEY3**	1 ½ in sq	1,500 lb	**1XEX3**
	Elesa	1.5 in	1,120 lb	**29AU86**	1.5 in	1,344 lb	**29AU83**
0.079 in	Elesa	1.75 in	1,232 lb	**29AU88**	—	—	—
0.12 in	S & W	—	—	—	1 ½ in sq	1,500 lb	**1XEX5**
	S & W	—	—	—	2 in sq	2,000 lb	**1XEX8**
¾-10 Thread Size							
0.065 in	Elesa	1.5 in	1,120 lb	**29AU87**	1.5 in	1,792 lb	**29AU80**
0.079 in	Elesa	1.75 in	1,232 lb	**29AU89**	—	—	—
0.12 in	S & W	—	—	—	2 in sq	2,000 lb	**1XEX9**
	Elesa	—	—	—	1.5 in	1,792 lb	**29AU84**
42/89 Thread Size							
0.079 in	Elesa	1.181 in	1,008 lb	**29AU76**	1.378 in	1,344 lb	**29AU74**
M12 Thread Size							
0.079 in	Elesa	1.654 in	1,120 lb	**29AU78**	1.181 in	1,008 lb	**29AU72**
M14 Thread Size							
0.079 in	Elesa	—	—	—	1.181 in	1,008 lb	**29AU73**

4NYH2

4TRY5

Boltless Leveling Mounts

Level-It™—Choose from steel, nonskid steel, stainless steel, and Delrin® base. See Grainger.com® for additional leveling mounts.

PolyMount™—Polyglass-filled nylon base is corrosion-resistant. Lag holes allow permanent floor mounting. For washdown applications. See Grainger.com® for additional leveling mounts.

Base Dia.	H	Hex	Load Capacity	Base	Finish	Item No.
Level-It						
¼-20						
1 in	0.8125 in	½ in	200 lb	Delrin(R)	Stainless Steel	**4TPW8**
		½ in	750 lb	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH2**
⅜-16						
1 1/14 in	0.875 in	⅝ in	3750 lb	Steel	Black Oxide	**20KK61**
1 ¼ in		⅝ in	3750 lb		Yellow Zinc	**2G377**
		⅝ in	3750 lb		Nickel	**2G378**
	1 in	⅝ in	300 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	**4TPW3**
		⅝ in	1800 lb	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH3**
		⅝ in	1800 lb		Nickel	**4TVE9**
½-13						
1 ⅞ in	1.125 in	¾ in	700 lb	Delrin(R)	Yellow Zinc	**4NYU4**
		¾ in	5000 lb	Steel	Yellow Zinc	**2G379**
		¾ in	5000 lb		Nickel	**2G380**
		¾ in	5000 lb		Black Oxide	**20KK62**
	1.25 in	¾ in	700 lb	Delrin(R) w/ Non-Skid Pad	Stainless Steel	**4TPX7**
		¾ in	3750 lb	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH4**
		¾ in	3750 lb		Nickel	**4TVF1**
⅝-11						
2 ½ in	1.25 in	⅞ in	6000 lb	Steel	Yellow Zinc	**2G381**
		⅞ in	6000 lb		Nickel	**2G382**
		⅞ in	6000 lb		Black Oxide	**20KK63**
	1.375 in	⅞ in	1200 lb	Delrin(R) w/ Non-Skid Pad	Stainless Steel	**4TPX8**
		⅞ in	4500 lb	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH5**
¾-10						
3 in	1.5 in	1 1⁄16 in	7400 lb	Steel	Yellow Zinc	**2G383**
		1 1⁄16 in	7400 lb		Nickel	**2G384**
		1 1⁄16 in	7400 lb		Black Oxide	**20KK64**
	1.625 in	1 1⁄16 in	5550 lb	Steel w/ Non-Skid Pad	Yellow Zinc	**4NYH6**
		1 1⁄16 in	5550 lb		Nickel	**4TVF3**
		1 1⁄16 in	5550 lb	Stainless Steel w/ Non-Skid Pad	Stainless Steel	**4NYJ3**
1-8						
4 in	1.875 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	**2G385**
M8						
1 in	0.8125 in	½ in	1000 lb	Stainless Steel	Stainless Steel	**14H426**
M16						
2 ½ in	1.375 in	⅞ in	6000 lb	Stainless Steel	Stainless Steel	**14H429**
M20						
3 in	1.625 in	1 1⁄16 in	7400 lb	Steel	Yellow Zinc	**14H424**
		1 1⁄16 in	7400 lb	Stainless Steel	Stainless Steel	**14H430**
M24						
4 in	2 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	**14H425**
PolyMount						
⅜-16						
2 in	1.4375 in	⅝ in	4000 lb	Nylon	Clear Zinc	**4TRX4**
		¾ in	4000 lb		Stainless Steel	**4TRY9**
	1.5 in	¾ in	3000 lb	Nylon w/ Non-Skid Pad	Clear Zinc	**4TTA5**
4 in	1.6875 in	¾ in	3750 lb		Stainless Steel	**4TTD5**
⅝-11						
3 in	1.6875 in	⅞ in	5000 lb	Nylon	Clear Zinc	**4TRX7**
4 in	1.875 in	⅞ in	6000 lb		Clear Zinc	**4TRY1**
	1.9375 in	⅞ in	4500 lb	Nylon w/ Non-Skid Pad	Clear Zinc	**4TTC2**
¾-10						
4 in	2 in	1 1⁄16 in	7500 lb	Nylon	Stainless Steel	**4TRZ7**
5 in	3 in	1 1⁄16 in	10,000 lb		Clear Zinc	**4TRY5**
1-8						
5 in	3.3125 in	1⅜ in	7500 lb	Nylon w/ Non-Skid Pad	Stainless Steel	**4TTE3**

2G416

4TVG7

1XEV2

4NYE5

5VM95

Standard Leveling Mounts with Bolts

Stabilize equipment with a 10° to 15° swivel in every direction. Leveling mounts with studs include jam nuts.

Base Dia.	H	Bolt Length	Hex	Load Capacity	Base	Finish	Item No.
Level-It							
¼-20 Thread Size							
1"	1.9375 in	1.25 in	½ in	200 lb	Delrin(R)	Yellow Zinc	2G416
		1.25 in	½ in	200 lb		Stainless Steel	1XEV8
		1.25 in	½ in	1000 lb	Steel	Yellow Zinc	2G361
		1.25 in	½ in	1000 lb		Nickel	2G362
		1.25 in	½ in	1000 lb	Stainless Steel	Stainless Steel	14H397
	2.0625 in	1.25 in	½ in	200 lb	Delrin(R) w/ Non-Skid Pad	Stainless Steel	4TVG7
		1.25 in	½ in	750 lb	Steel, Non-Skid	Yellow Zinc	2G402
		1.25 in	½ in	750 lb	Stainless Steel, Non-Skid	Stainless Steel	1XEV2
		1.25 in	½ in	1000 lb	Steel, Non-Skid	Nickel	14H391
	3.1875 in	2.5 in	½ in	1000 lb	Steel	Yellow Zinc	4NYE5
		2.5 in	½ in	1000 lb	Stainless Steel	Stainless Steel	4NYF4
		2.5 in	½ in	1000 lb	316 Stainless Steel	Stainless Steel	14H398
	3.3125 in	2.5 in	½ in	750 lb	Steel, Non-Skid	Yellow Zinc	4TVC2
⅜-16 Thread Size							
1¼"	2.875 in	2 in	⅝ in	300 lb	Delrin(R)	Yellow Zinc	2G417
		2 in	⅝ in	300 lb		Stainless Steel	1XEV9
		2 in	⅝ in	3750 lb	Steel	Yellow Zinc	2G363
		2 in	⅝ in	3750 lb	303 Stainless Steel	Stainless Steel	2G389
		2 in	⅝ in	3750 lb	Steel	Nickel	2G364
		2 in	⅝ in	3750 lb	316 Stainless Steel	Stainless Steel	14H399
	3 in	2 in	⅝ in	300 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4TVG2
		2 in	⅝ in	300 lb		Stainless Steel	4TVG8
		2 in	⅝ in	2800 lb	Stainless Steel, Non-Skid	Stainless Steel	1XEV3
		2 in	⅝ in	2800 lb	Steel, Non-Skid	Yellow Zinc	2G403
		2 in	⅝ in	2800 lb		Nickel	14H392
	4.875 in	4 in	⅝ in	300 lb	Delrin(R)	Yellow Zinc	4NYN7
		4 in	⅝ in	3750 lb	Steel	Yellow Zinc	4NYE6
		4 in	⅝ in	3750 lb		Nickel	4NYG4
		4 in	⅝ in	3750 lb	316 Stainless Steel	Stainless Steel	14H401
	5 in	4 in	⅝ in	300 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4NYP6
		4 in	⅝ in	300 lb		Stainless Steel	4NYT4
		4 in	⅝ in	2800 lb	Stainless Steel, Non-Skid	Stainless Steel	4TVE1
		4 in	⅝ in	2800 lb	Steel, Non-Skid	Yellow Zinc	4TVC3
		4 in	⅝ in	2800 lb		Nickel	4TVD2
2"	4.125 in	3 in	¾ in	4000 lb	Nylon	Clear Zinc	4TTE6
	5.125 in	4 in	¾ in	4000 lb		Clear Zinc	5VM98
½-13 Thread Size							
1⅞"	3.125 in	2 in	¾ in	700 lb	Delrin(R)	Yellow Zinc	2G418
		2 in	¾ in	700 lb		Stainless Steel	1XEW1
		2 in	¾ in	5000 lb	Steel	Yellow Zinc	2G365
		2 in	¾ in	5000 lb	303 Stainless Steel	Stainless Steel	2G390
		2 in	¾ in	5000 lb	Steel	Nickel	2G366
		2 in	¾ in	5000 lb	316 Stainless Steel	Stainless Steel	14H402
	3.25 in	2 in	¾ in	700 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4TVG3
		2 in	¾ in	700 lb		Stainless Steel	4TVG9
		2 in	¾ in	3750 lb	Stainless Steel, Non-Skid	Stainless Steel	1XEV4
		2 in	¾ in	3750 lb	Steel, Non-Skid	Yellow Zinc	2G404
		2 in	¾ in	5000 lb		Nickel	14H393
	5.125 in	4 in	¾ in	700 lb	Delrin(R)	Yellow Zinc	4NYN8
		4 in	¾ in	700 lb		Stainless Steel	4NYR6
		4 in	¾ in	5000 lb	Steel	Yellow Zinc	4NYE7
		4 in	¾ in	5000 lb	Stainless Steel	Stainless Steel	4NYF6
		4 in	¾ in	5000 lb	Steel	Nickel	4NYG5
		4 in	¾ in	5000 lb	316 Stainless Steel	Stainless Steel	14H403
	5.25 in	4 in	¾ in	700 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4NYP7
		4 in	¾ in	3750 lb	Stainless Steel, Non-Skid	Stainless Steel	4TVE2
		4 in	¾ in	3750 lb	Steel, Non-Skid	Yellow Zinc	4TVC4
		4 in	¾ in	3750 lb		Nickel	4TVD3
3"	5.125 in	4 in	¾ in	5000 lb	Nylon	Clear Zinc	5VN01
⅝-11 Thread Size							
2½"	3.25 in	2 in	⅞ in	6000 lb	Steel	Yellow Zinc	2G367
		2 in	⅞ in	6000 lb	303 Stainless Steel	Stainless Steel	2G391
		2 in	⅞ in	6000 lb	Steel	Nickel	2G368
		2 in	⅞ in	6000 lb	316 Stainless Steel	Stainless Steel	14H404
	3.375 in	2 in	⅞ in	1200 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4TVG4
		2 in	⅞ in	4500 lb	Stainless Steel, Non-Skid	Stainless Steel	1XEV5
		2 in	⅞ in	4500 lb	Steel, Non-Skid	Yellow Zinc	2G405
		2 in	⅞ in	6000 lb		Nickel	14H394
	5.25 in	4 in	⅞ in	1200 lb	Delrin(R)	Yellow Zinc	4NYN9
		4 in	⅞ in	1200 lb		Stainless Steel	4NYR7
		4 in	⅞ in	6000 lb	Steel	Yellow Zinc	4NYE8
		4 in	⅞ in	6000 lb	Stainless Steel	Stainless Steel	4NYF7
		4 in	⅞ in	6000 lb	Steel	Nickel	4NYG6
		4 in	⅞ in	6000 lb	316 Stainless Steel	Stainless Steel	14H405
	5.375 in	4 in	⅞ in	4500 lb	Steel, Non-Skid	Yellow Zinc	4TVC5
5"	8.25 in	6 in	1 1/16 in	10,000 lb	Nylon	Stainless Steel	4TTT4

Base Dia.	H	Bolt Length	Hex	Load Capacity	Base	Finish	Item No.
¾-10 Thread Size							
3"	3.5 in	2 in	1 1/16 in	7400 lb	Steel	Yellow Zinc	2G369
		2 in	1 1/16 in	7400 lb		Nickel	2G370
		2 in	1 1/16 in	7400 lb	316 Stainless Steel	Stainless Steel	14H411
	3.625 in	2 in	1 1/16 in	1800 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4TVG5
		2 in	1 1/16 in	1800 lb		Stainless Steel	4TVH2
		2 in	1 1/16 in	5500 lb	Stainless Steel, Non-Skid	Stainless Steel	1XEV6
		2 in	1 1/16 in	7400 lb	Steel, Non-Skid	Nickel	14H395
	5.5 in	4 in	1 1/16 in	1800 lb	Delrin(R)	Yellow Zinc	4NYP1
		4 in	1 1/16 in	1800 lb		Stainless Steel	4NYR8
		4 in	1 1/16 in	7400 lb	Steel	Yellow Zinc	4NYE9
		4 in	1 1/16 in	7400 lb	Stainless Steel	Stainless Steel	4NYF8
		4 in	1 1/16 in	7400 lb	Steel	Nickel	4NYG7
		4 in	1 1/16 in	7400 lb	316 Stainless Steel	Stainless Steel	14H406
	5.625 in	4 in	1 1/16 in	1800 lb	Delrin(R) w/ Non-Skid Pad	Yellow Zinc	4NYP9
		4 in	1 1/16 in	5500 lb	Stainless Steel, Non-Skid	Stainless Steel	4TVE4
		4 in	1 1/16 in	5500 lb	Steel, Non-Skid	Yellow Zinc	4TVC6
1-8 Thread Size							
4"	5.375 in	3.5 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	2G371
	5.5 in	3.5 in	1⅜ in	15,000 lb	Steel, Non-Skid	Yellow Zinc	2G407
		3.5 in	1⅜ in	20,000 lb		Nickel	14H396
	6.125 in	4.25 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	4NYF1
	7.875 in	6 in	1⅜ in	20,000 lb	Stainless Steel	Stainless Steel	4NYG1
		6 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	4NYF2
	8 in	6 in	1⅜ in	15,000 lb	Stainless Steel, Non-Skid	Stainless Steel	4TVE6
	9.875 in	8 in	1⅜ in	20,000 lb	Stainless Steel	Stainless Steel	4NYG2
		8 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	4NYF3
		8 in	1⅜ in	20,000 lb	316 Stainless Steel	Stainless Steel	14H410
	10 in	8 in	1⅜ in	15,000 lb	Steel, Non-Skid	Yellow Zinc	4TVC9
M8 Thread Size							
1"	2.0625 in	1.25 in	½ in	750 lb	Steel, Non-Skid	Yellow Zinc	4NYL1
		1.25 in	½ in	750 lb	Stainless Steel, Non-Skid	Stainless Steel	4NYL8
M10 Thread Size							
1¼"	2.875 in	2 in	⅝ in	3750 lb	Steel	Yellow Zinc	4NYJ6
		2 in	⅝ in	3750 lb	316 Stainless Steel	Stainless Steel	14H414
M12 Thread Size							
1⅞"	3.125 in	2 in	¾ in	5000 lb	Steel	Yellow Zinc	4NYJ7
		2 in	¾ in	5000 lb	316 Stainless Steel	Stainless Steel	14H415
	3.25 in	2 in	¾ in	3750 lb	Steel, Non-Skid	Yellow Zinc	4NYL3
		2 in	¾ in	3750 lb	Stainless Steel, Non-Skid	Stainless Steel	4NYN1
M24 Thread Size							
4"	4.25 in	4.25 in	1⅜ in	20,000 lb	Steel	Yellow Zinc	4NYK2
Low Profile							
⅜-16 Thread Size							
2"	4.0625 in	3 in	¾ in	2000 lb	Steel	Clear Zinc	5VM94
	4.4375 in	3 in	¾ in	1500 lb	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRP1
2½"		3 in	¾ in	1500 lb	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRU8
½-13 Thread Size							
2"	4.0625 in	3 in	¾ in	3500 lb	Steel	Clear Zinc	5VM95
	7.4375 in	6 in	¾ in	3000 lb	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRU5
3"	4.0625 in	3 in	¾ in	3500 lb	Steel	Clear Zinc	4TRH6
	4.4375 in	3 in	¾ in	3000 lb	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRR6
4"	4.0625 in	3 in	¾ in	3500 lb	Stainless Steel	Stainless Steel	4TRN2
	4.4375 in	3 in	¾ in	3000 lb	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRT3
⅝-11 Thread Size							
2"	7.4375 in	6 in	⅞ in	4500 lb	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRP6
2½"		6 in	⅞ in	4500 lb	Stainless Steel w/ Anti-Vibration Pad	Stainless Steel	4TRV4
3"	4.0625 in	3 in	⅞ in	5000 lb	Steel	Clear Zinc	5VM96
4"	7.4375 in	6 in	⅞ in	4500 lb	Steel w/ Anti-Vibration Pad	Clear Zinc	4TRT6

Choose the Right Shelving

DUTY RATING

Light-Duty

- Hold lightweight supplies in offices or industrial areas where the shelving units would not be subject to impacts or abuse.

Medium-Duty

- Generally are sturdier and can hold heavier items than light-duty shelving units.
- Suitable for storing tools, equipment, and supplies in industrial settings.

Heavy-Duty

- Sturdier and can hold heavier items than light-duty or medium-duty open metal shelving units.
- Used in industrial facilities for storing heavy tools, equipment, and supplies.

Extra-Heavy-Duty

- Bolt together and provide more strength and rigidity than open metal shelving units with lower duty levels.
- Hold dies, fixtures, jigs, and other very heavy equipment.

SHELVING STYLE

Open units do not have back or side panels, so items on their shelves can be seen from all sides.

Closed units have back and side panels that prevent items from falling off their shelves.

SHELVING CONFIGURATION

Starter indicates the shelving unit can be used as a standalone unit, or it can be expanded with one or more add-on shelving units to create a multi-unit system.

Add-On indicates the shelving unit can attach to compatible starter or add-on units to build a multi-unit system. Each add-on unit shares posts with the unit it connects to, which saves space compared to placing multiple standalone units side by side.

Standalone indicates the shelving unit cannot be expanded with add-on shelving units, but multiple standalone units can be placed side-by-side, if desired.

6-Shelf Closed

5-Shelf Open

tennsco Storage Made Easy

Light-Duty Standalone Metal Shelving

- 250-lb. capacity per shelf (based on evenly distributed loads)
- Gray solid shelves adjust in 1" increments
- 72" overall height
- 16-ga. posts; 22-ga. shelves

Include braces that bolt to the posts to stabilize them and help prevent swaying. Clips anchor and support the shelves on their posts, and the clips can be moved to adjust the height of the shelves on the posts.

Overall Width	Overall Depth	OPEN Item No.	CLOSED Item No.
6-Shelf Units			
36 in	12 in	**39FM57**	**39FM63**
	18 in	**39FM58**	**39FM64**
	24 in	**39FM59**	**39FM65**
5-Shelf Units			
36 in	12 in	**39FM54**	**39FM60**
	18 in	**39FM55**	**39FM61**
	24 in	**39FM56**	**39FM62**

Open Starter Unit

Closed Add-On Unit

Hallowell

Antimicrobial Medium-Duty Metal Shelving

- Solid shelves adjust on 1½" centers
- 84" overall height
- 14-ga. posts; 22-ga. shelves
- Light gray antimicrobial powder-coated finish

Antimicrobial finish stops damaging, odor-causing bacteria, mold, and mildew from growing. Helps keep the shelving clean for schools, hospitals, and other areas that must maintain high standards of cleanliness. Clips anchor and support the shelves on their posts, and the clips can be moved to adjust the height of the shelves on the posts.

			OPEN		CLOSED	
Overall Width	Overall Depth	Load Capacity per Shelf*	Starter Item No.	Add-On Item No.	Starter Item No.	Add-On Item No.
11-Shelf Units						
48 in	12 in	375 lb	**14C781**	**14C782**	**14P339**	**14P340**
	18 in	375 lb	**14C783**	**14C784**	**14P341**	**14P342**
	24 in	350 lb	**14C785**	**14C786**	**14P343**	**14P344**
36 in	12 in	500 lb	**14C775**	**14C776**	**14C787**	**14C788**
	18 in	500 lb	**14C777**	**14C778**	**14P335**	**14P336**
	24 in	500 lb	**14C779**	**14C780**	**14P337**	**14P338**
8-Shelf Units						
48 in	12 in	375 lb	**14C757**	**14C758**	**14C769**	**14C770**
	18 in	375 lb	**14C759**	**14C760**	**14C771**	**14C772**
	24 in	350 lb	**14C761**	**14C762**	**14C773**	**14C774**
36 in	12 in	500 lb	**14C751**	**14C752**	**14C763**	**14C764**
	18 in	500 lb	**14C753**	**14C754**	**14C765**	**14C766**
	24 in	500 lb	**14C755**	**14C756**	**14C767**	**14C768**

**Based on evenly distributed loads.*

Hallowell | tennsco Storage Made Easy

Medium-Duty Open and Closed Shelving

- 87" overall height
- Solid shelves adjust on 1" centers
- 14-ga. posts
- Medium gray powder-coated finish
- Shipped unassembled

Braces bolt to posts to stabilize them and help prevent swaying. Clips anchor and support the shelves on their posts, and the clips can be moved to adjust the height of the shelves on the posts.

Open Starter Unit

Closed Add-On Unit

Overall Width	Overall Depth	Load Capacity per Shelf*	Shelving Gauge	Brand	OPEN Starter Item No.	OPEN Add-On Item No.	CLOSED Starter Item No.	CLOSED Add-On Item No.
8-Shelf Units								
48 in	12 in	375 lb	22 ga	Hallowell	1BHL5	1BKL4	1BLL5	1BLT1
		400 lb	20 ga	Hallowell	1BLB4	1BLD4	1BLV1	1BLX1
	18 in	375 lb	22 ga	Hallowell	1BHL6	1BKL5	1BLL7	1BLT2
		450 lb	20 ga	Hallowell	1BLB5	1BLD5	1BLV2	1BLX2
	24 in	350 lb	22 ga	Hallowell	1BHL7	1BKL6	1BLL9	1BLT3
		500 lb	20 ga	Hallowell	1BLB6	1BLD6	1BLV3	1BLX3
36 in	12 in	500 lb	22 ga	Hallowell	1BGL5	1BJL4	1BLK1	1BLP5
		800 lb	20 ga	Hallowell	1BLA4	1BLC4	1BLU1	1BLW1
	18 in	500 lb	22 ga	Hallowell	1BGL6	1BJL5	1BLK2	1BLP7
		800 lb	20 ga	Hallowell	1BLA5	1BLC5	1BLU2	1BLW2
	24 in	500 lb	22 ga	Hallowell	1BGL7	1BJL6	1BLK3	1BLP9
		800 lb	20 ga	Hallowell	1BLA6	1BLC6	1BLU3	1BLW3
6-Shelf Units								
48 in	12 in	375 lb	22 ga	Hallowell	1BHL2	1BKL1	1BLK8	1BLR7
		400 lb	20 ga	Hallowell	1BLB1	1BLD1	1BLU7	1BLW7
	18 in	375 lb	22 ga	Hallowell	1BHL3	1BKL2	1BLL1	1BLR8
		450 lb	20 ga	Hallowell	1BLB2	1BLD2	1BLU8	1BLW8
	24 in	350 lb	22 ga	Hallowell	1BHL4	1BKL3	1BLL3	1BLR9
		500 lb	20 ga	Hallowell	1BLB3	1BLD3	1BLU9	1BLW9
36 in	12 in	500 lb	22 ga	Hallowell	1BGL2	1BJL1	1BLJ6	1BLN8
		800 lb	20 ga	Hallowell	1BLA1	1BLC1	1BLT7	1BLV7
	18 in	500 lb	22 ga	Hallowell	1BGL3	1BJL2	1BLJ8	1BLP1
		800 lb	20 ga	Hallowell	1BLA2	1BLC2	1BLT8	1BLV8
	24 in	500 lb	22 ga	Hallowell	1BGL4	1BJL3	1BLJ9	1BLP3
		800 lb	20 ga	Hallowell	1BLA3	1BLC3	1BLT9	1BLV9
5-Shelf Units								
48 in	12 in	375 lb	22 ga	Hallowell	1BGL8	1BJL7	1BLK4	1BLR2
		400 lb	20 ga	Hallowell	1BLA7	1BLC7	1BLU4	1BLW4
		500 lb	22 ga	Tennsco	9K424	8Y608	8UR51	8Y609
		650 lb	20 ga	Tennsco	9W723	8CL89	—	9WD06
	18 in	375 lb	22 ga	Hallowell	1BGL9	1BJL8	1BLK5	1BLR4
		450 lb	20 ga	Hallowell	1BLA8	1BLC8	1BLU5	1BLW5
		500 lb	22 ga	Tennsco	8CLP4	9LA96	9PP43	8CLR1
		650 lb	20 ga	Tennsco	8CJU8	8CL90	9CLY8	8N794
	24 in	350 lb	22 ga	Hallowell	1BHL1	1BJL9	1BLK6	1BLR6
		450 lb	22 ga	Tennsco	8CLP5	8CLP7	9MH98	8U675
		500 lb	20 ga	Hallowell	1BLA9	1BLC9	1BLU6	1BLW6
		550 lb	20 ga	Tennsco	8CL87	8X965	8N793	9WYP4
36 in	12 in	1,000 lb	20 ga	Tennsco	9EYK0	—	9MH92	9LA94
		500 lb	22 ga	Hallowell	1BFL8	1BHL8	1BLH9	1BLN2
		750 lb	22 ga	Tennsco	9MH95	9NU62	8CLP8	9WC86
		800 lb	20 ga	Hallowell	1BKL7	1BLB7	1BLT4	1BLV4
	18 in	500 lb	22 ga	Hallowell	1BFL9	1BHL9	1BLJ2	1BLN4
		750 lb	22 ga	Tennsco	8CLP3	8RHN9	8CLP9	8RHP0
		800 lb	20 ga	Hallowell	1BKL8	1BLB8	1BLT5	1BLV5
		850 lb	20 ga	Tennsco	8CJU6	8CL88	9PRA1	9A729
	24 in	500 lb	22 ga	Hallowell	1BGL1	1BHV8	1BLJ4	1BLN6
		700 lb	22 ga	Tennsco	9MH96	8PGR9	8CLR0	9PP46
		800 lb	20 ga	Tennsco	8CJU7	9A730	9NU59	8TKE1
		800 lb	20 ga	Hallowell	1BKL9	1BLB9	1BLT6	1BLV6

Overall Width	Overall Depth	Load Capacity per Shelf*	Shelving Gauge	Brand	CLOSED Standalone Item No.	OPEN Standalone Item No.
8-Shelf Units						
48 in	12 in	375 lb	22 ga	Hallowell	39K809	39K754
		400 lb	20 ga	Hallowell	39K827	39K772
	18 in	375 lb	22 ga	Hallowell	39K810	39K755
		450 lb	20 ga	Hallowell	39K828	39K773
	24 in	350 lb	22 ga	Hallowell	39K811	39K756
		500 lb	20 ga	Hallowell	—	39K774
		800 lb	20 ga	Hallowell	39K829	—
36 in	12 in	500 lb	22 ga	Hallowell	39K806	39K751
		800 lb	20 ga	Hallowell	39K824	39K769
	18 in	500 lb	22 ga	Hallowell	39K807	39K752
		800 lb	20 ga	Hallowell	39K825	39K770
	24 in	500 lb	22 ga	Hallowell	39K808	39K753
		800 lb	20 ga	Hallowell	39K826	39K771
6-Shelf Units						
48 in	12 in	375 lb	22 ga	Hallowell	39K803	39K748
		400 lb	20 ga	Hallowell	39K821	39K766
	18 in	375 lb	22 ga	Hallowell	39K804	39K749
		450 lb	20 ga	Hallowell	39K822	39K767
	24 in	350 lb	22 ga	Hallowell	39K805	39K750
		500 lb	20 ga	Hallowell	39K823	39K768
36 in	12 in	500 lb	22 ga	Hallowell	39K799	39K745
		800 lb	20 ga	Hallowell	39K818	39K763
	18 in	500 lb	22 ga	Hallowell	39K801	39K746
		800 lb	20 ga	Hallowell	39K819	39K764
	24 in	500 lb	22 ga	Hallowell	39K802	39K747
		800 lb	20 ga	Hallowell	39K820	39K765
5-Shelf Units						
48 in	12 in	375 lb	22 ga	Hallowell	39K796	39K742
		400 lb	20 ga	Hallowell	39K815	39K760
	18 in	375 lb	22 ga	Hallowell	39K797	39K743
		450 lb	20 ga	Hallowell	39K816	39K761
	24 in	350 lb	22 ga	Hallowell	39K798	39K744
		500 lb	20 ga	Hallowell	39K817	39K762
36 in	12 in	500 lb	22 ga	Hallowell	39K793	39K739
		800 lb	20 ga	Hallowell	39K812	39K757
	18 in	500 lb	22 ga	Hallowell	39K794	39K740
		800 lb	20 ga	Hallowell	39K813	39K758
	24 in	500 lb	22 ga	Hallowell	39K795	39K741
		800 lb	20 ga	Hallowell	39K814	39K759

Overall Width	Overall Depth	Overall Height	Pkg. Qty.	Brand	22 ga Item No.	22 ga Shelf Cap.	22 ga Color	20 ga Item No.	20 ga Shelf Cap.	20 ga Color
Solid Shelves										
36 in	12 in	1"	1	Tennsco	39FM66	250 lb	Gray	—	—	—
		1¼"	5	Hallowell	1BNL4	500 lb	Dark Gray	1BPL1	800 lb	Dark Gray
		1 5/16"	1	Tennsco	1LYR9	750 lb	Tan	9PRA3	1,000 lb	Gray
	18 in	1¼"	5	Hallowell	1BNL5	500 lb	Dark Gray	1BPL2	800 lb	Dark Gray
		1 5/16"	1	Tennsco	1LYT1	750 lb	Tan	8CLM9	750 lb	Gray
			1	Tennsco	1LYT7	450 lb	Tan	9DYH4	850 lb	Gray
	24 in	1"	1	Tennsco	39FM68	250 lb	Gray	—	—	—
		1¼"	5	Hallowell	1BNL6	500 lb	Dark Gray	4CPP2	800 lb	Light Gray
		1 5/16"	1	Tennsco	1LYT2	700 lb	Tan	8X967	800 lb	Gray
48 in	12 in	1¼"	5	Hallowell	1BNL7	375 lb	Dark Gray	1BPL4	400 lb	Dark Gray
		1 5/16"	1	Tennsco	1LYT3	500 lb	Tan	9HNE4	650 lb	Gray
	18 in	1¼"	5	Hallowell	1BNL8	375 lb	Dark Gray	4CPP3	450 lb	Light Gray
		1 5/16"	1	Tennsco	1LYT4	500 lb	Tan	9A735	550 lb	Gray
	24 in		1	Tennsco	1LYT5	450 lb	Tan	8RHN6	550 lb	Gray
Ventilated Shelves										
36 in	12 in	1 5/16"	1	Tennsco	8G262	450 lb	Medium Gray	—	—	—
	18 in		1	Tennsco	9KFE8	450 lb	Medium Gray	—	—	—
	24 in		1	Tennsco	8G263	400 lb	Medium Gray	—	—	—
48 in	12 in		1	Tennsco	9GMY4	300 lb	Medium Gray	—	—	—
	18 in		1	Tennsco	8G264	300 lb	Medium Gray	—	—	—
	24 in		1	Tennsco	8ZHY8	250 lb	Medium Gray	—	—	—

** Based on evenly distributed loads.*

DENIOS THE HAZMAT PRO®

Spill-Containment Medium-Duty Open Metal Shelving

- 84" overall height
- 16-ga. posts and shelves

Lipped solid shelves contain spills or leaks to help prevent contamination of items or surfaces below them, making these units suitable for storing small containers of liquids in industrial areas. Include braces that bolt to their posts to stabilize them and help prevent swaying. Clips anchor and support the shelves on their posts, and the clips can be moved to adjust the height of the shelves on the posts.

4UEC2

Overall Width	Overall Depth	Load Capacity per Shelf	Starter Item No.	Add-On Item No.
36 in	24 in	250 lb	4UEC2	4UEC4

Overall Width	Overall Depth	20 ga Item No.	20 ga Shelf Cap.*	18 ga Item No.	18 ga Shelf Cap.*
Additional Solid Shelves					
36 in	18 in	4CPP1	800 lb	4CPP5	1,200 lb
36 in	24 in	4CPP2	800 lb	4CPP6	1,250 lb
48 in	18 in	4CPP3	450 lb	4CPP7	900 lb
48 in	24 in	4CPP4	500 lb	4CPP8	900 lb

*** Based on evenly distributed loads.***

Heavy-Duty H-Post Metal Shelving

Hallowell

- 14-ga. posts
- Shelves adjust in 1½" increments
- Powder-coated finish

High-capacity H-posts allow use of full shelf width and are common between adjoining units to reduce cost, and assembly and installation time. Shelves are box-formed at front and back with triple-flanged sides for added strength. Included compression shelf clips add to overall unit capacity.

Open shelving includes sway braces and closed shelving includes 18-ga. side, and 24-ga. back panels for enhanced stability.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Shelving Gauge	OPEN Starter Item No.	OPEN Add-On Item No.	CLOSED Starter Item No.	CLOSED Add-On Item No.
8-Shelf Units								
120 in	36 in	18 in	800 lb	20 ga	4GZV5	4GZV7	4GZY2	4GZY4
			1200 lb	18 ga	4HAJ2	4HAJ4	4HAL8	4HAM1
		24 in	1250 lb	18 ga	4HAJ3	4HAJ5	4HAL9	4HAM2
	48 in	18 in	450 lb	20 ga	4GZW8	4GZX1	4GZZ5	4GZZ7
			1200 lb	18 ga	4HAK5	4HAK7	4HAN2	4HAN4
		24 in	500 lb	20 ga	4GZW9	4GZX2	4GZZ6	4GZZ8
			800 lb	20 ga	4GZV6	4GZV8	4GZY3	4GZY5
			1250 lb	18 ga	4HAK6	4HAK8	4HAN3	4HAN5
84 in	36 in	18 in	800 lb	20 ga	4GZN2	4GZN4	4GZR8	4GZT1
			1200 lb	18 ga	4HAA8	4HAC1	4HAE5	4HAE7
		24 in	800 lb	20 ga	4GZN3	4GZN5	4GZR9	4GZT2
			900 lb	18 ga	4HAD3	4HAD5	4HAF9	4HAH2
			1250 lb	18 ga	4HAA9	4HAC2	4HAE6	4HAE8
	48 in	18 in	450 lb	20 ga	4GZP5	4GZP7	4GZU2	4GZU4
			900 lb	18 ga	4HAD2	4HAD4	4HAF8	4HAH1
		24 in	500 lb	20 ga	4GZP6	4GZP8	4GZU3	4GZU5
6-Shelf Units								
120 in	36 in	18 in	800 lb	20 ga	4GZV1	4GZV3	4GZX7	4GZX9
			1200 lb	18 ga	4HAH7	4HAH9	4HAL4	4HAL6
		24 in	1250 lb	18 ga	4HAH8	4HAJ1	4HAL5	4HAL7
	48 in	18 in	450 lb	20 ga	4GZW4	4GZW6	4GZZ1	4GZZ3
			1200 lb	18 ga	4HAK1	4HAK3	4HAM7	4HAM9
		24 in	500 lb	20 ga	4GZW5	4GZW7	4GZZ2	4GZZ4
			800 lb	20 ga	4GZV2	4GZV4	4GZX8	4GZY1
			1250 lb	18 ga	4HAK2	4HAK4	4HAM8	4HAN1
84 in	36 in	18 in	800 lb	20 ga	4GZL7	4GZL9	4GZR4	4GZR6
			1200 lb	18 ga	4HAA4	4HAA6	4HAE1	4HAE3
		24 in	800 lb	20 ga	4GZL8	4GZN1	4GZR5	4GZR7
			900 lb	18 ga	4HAC8	4HAD1	4HAF5	4HAF7
			1250 lb	18 ga	4HAA5	4HAA7	4HAE2	4HAE4
	48 in	18 in	450 lb	20 ga	4GZP1	4GZP3	4GZT7	4GZT9
			900 lb	18 ga	4HAC7	4HAC9	4HAF4	4HAF6
		24 in	500 lb	20 ga	4GZP2	4GZP4	4GZT8	4GZU1
5-Shelf Units								
120 in	36 in	18 in	800 lb	20 ga	4GZU6	4GZU8	4GZX3	4GZX5
			1200 lb	18 ga	4HAH3	4HAH5	4HAK9	4HAL2
		24 in	1250 lb	18 ga	4HAH4	4HAH6	4HAL1	4HAL3
	48 in	18 in	450 lb	20 ga	4GZV9	4GZW2	4GZY6	4GZY8
			1200 lb	18 ga	4HAJ6	4HAJ8	4HAM3	4HAM5
		24 in	500 lb	20 ga	4GZW1	4GZW3	4GZY7	4GZY9
			800 lb	20 ga	4GZU7	4GZU9	4GZX4	4GZX6
			1250 lb	18 ga	4HAJ7	4HAJ9	4HAM4	4HAM6
84 in	36 in	18 in	800 lb	20 ga	4GZL3	4GZL5	4GZP9	4GZR2
			900 lb	18 ga	4HAC3	4HAC5	4HAE9	4HAF2
			1200 lb	18 ga	4GZZ9	4HAA2	4HAD6	4HAD8
		24 in	800 lb	20 ga	4GZL4	4GZL6	4GZR1	4GZR3
			1250 lb	18 ga	4HAA1	4HAA3	4HAD7	4HAD9
	48 in	18 in	450 lb	20 ga	4GZN6	4GZN8	4GZT3	4GZT5
		24 in	500 lb	20 ga	4GZN7	4GZN9	4GZT4	4GZT6
			900 lb	18 ga	4HAC4	4HAC6	4HAF1	4HAF3

Open Starter Unit

Open Add-On Unit

Closed Add-On Unit

Closed Starter Unit

Find additional Storage Rack Decking information on page 1228.

Heavy-Duty Open and Closed Shelving

Hallowell

- 14-ga. posts; 18-ga. shelves

Shelves are box-formed at front and rear, with triple-flanged sides and welded corners for maximum strength. Beaded front post allows use of full shelf width. Angle back posts bolt together when adding units; quick, easy assembly.

ACCESSORIES FOR CLOSED SHELVING

Vertical Shelf Dividers—Clip into shelves using nylon fasteners to provide additional organization.

Double Swinging Doors—Create cabinet-like storage. Include chrome-finish handle with built-in cylinder key lock for 3-pt. positive locking.

Closed Base Strips—Close the gap between floor and bottom shelf to prevent dirt and debris from accumulating under shelving.

STANDALONE SHELVING

- Intermediate shelves adjust in 1½" increments
- Steel shelves, gray powder-coated finish

Durable shelving provides adjustable storage with access from all four sides. Top and bottom shelves are triple-flanged on all sides and bolted for maximum strength and stability. Units include four angle posts.

Open Starter Unit

Open Add-On Unit

Closed Starter Unit

Closed Add-On Unit

Double Swinging Doors

Vertical Shelf Dividers

Overall Width	Overall Depth	Load Capacity per Shelf *	OPEN Starter Item No.	OPEN Add-On Item No.	CLOSED Starter Item No.	CLOSED Add-On Item No.
8-Shelf Units						
48 in	12 in	750 lb	1BLF4	1BLH4	1BLZ1	1BNL1
	18 in	900 lb	1BLF5	1BLH5	1BLZ2	1BNL2
	24 in	900 lb	1BLF6	1BLH7	1BLZ3	1BNL3
36 in	12 in	1,100 lb	1BLE4	1BLG4	1BLY1	1BML1
	18 in	1,200 lb	1BLE5	1BLG5	1BLY2	1BML2
	24 in	1,250 lb	1BLE6	1BLG6	1BLY3	1BML3
6-Shelf Units						
48 in	12 in	750 lb	1BLF1	1BLH1	1BLY7	1BML7
	18 in	900 lb	1BLF2	1BLH2	1BLY8	1BML8
	24 in	900 lb	1BLF3	1BLH3	1BLY9	1BML9
36 in	12 in	1,100 lb	1BLE1	1BLG1	1BLX7	1BLZ7
	18 in	1,200 lb	1BLE2	1BLG2	1BLX8	1BLZ8
	24 in	1,250 lb	1BLE3	1BLG3	1BLX9	1BLZ9
5-Shelf Units						
48 in	12 in	750 lb	1BLE7	1BLG7	1BLY4	1BML4
	18 in	900 lb	1BLE8	1BLG8	1BLY5	1BML5
	24 in	900 lb	1BLE9	1BLG9	1BLY6	1BML6
36 in	12 in	1,100 lb	1BLD7	1BLF7	1BLX4	1BLZ4
	18 in	1,200 lb	1BLD8	1BLF8	1BLX5	1BLZ5
	24 in	1,250 lb	1BLD9	1BLF9	1BLX6	1BLZ6

Overall Width	Overall Depth	Load Capacity per Shelf *	OPEN Standalone Item No.	CLOSED Standalone Item No.
8-Shelf Units				
48 in	12 in	400 lb	1BLR1	—
		750 lb	39K790	39K845
	18 in	450 lb	1BLR3	—
		900 lb	39K791	39K846
	24 in	500 lb	1BLR5	—
		900 lb	39K792	39K847
36 in	12 in	800 lb	1BLN1	—
		1100 lb	39K787	39K842
	18 in	800 lb	1BLN3	—
		1200 lb	39K788	39K843
	24 in	800 lb	1BLN5	—
		1250 lb	39K789	39K844
7-Shelf Units				
48 in	12 in	400 lb	1BLP4	—
	18 in	450 lb	1BLP6	—
	24 in	500 lb	1BLP8	—
36 in	12 in	800 lb	1BLL4	—
	18 in	800 lb	1BLL6	—
	24 in	800 lb	1BLL8	—
6-Shelf Units				
48 in	12 in	750 lb	39K784	39K839
	18 in	900 lb	39K785	39K840
	24 in	900 lb	39K786	39K841
36 in	12 in	1100 lb	39K781	39K836
	18 in	1200 lb	39K782	39K837
	24 in	1250 lb	39K783	39K838
5-Shelf Units				
48 in	12 in	400 lb	1BLN7	—
		750 lb	39K778	39K833
	18 in	450 lb	1BLN9	—
		900 lb	39K779	39K834
	24 in	500 lb	1BLP2	—
		900 lb	39K780	39K835
36 in	12 in	800 lb	1BLK7	—
		1100 lb	39K775	39K830
	18 in	800 lb	1BLK9	—
		1200 lb	39K776	39K831
	24 in	800 lb	1BLL2	—
		1250 lb	39K777	39K832

Overall Width	Overall Height	Item No.
Double Swinging Doors		
36 ½ in	84 in	1BTL4
Base Strip, Pkg. of 10		
36 ½ in	3 in	1BTL6
47 ½ in	3 in	1BTL7

Overall Depth	Overall Height	Item No.
Vertical Shelf Dividers, Pkg. of 12		
12 in	6 in	1BRL4
	9 in	1BRL5
	12 in	1BRL6
18 in	6 in	1BRL7
	9 in	1BRL8
	12 in	1BRL9
24 in	6 in	1BTL1
	9 in	1BTL2
	12 in	1BTL3

** Based on evenly distributed loads.*

Find additional Storage Rack Decking information on page 1228.

5-Shelf Closed

5-Shelf Open

EQUIPTO

Heavy-Duty V-Stud Metal Shelving

- 84" overall height
- 14-ga. posts and 18-ga. shelves

V-stud shelf reinforcements offer more protection against shelf deflection (or sagging) than standard shelf clips when heavy items are placed on the shelves. Include braces that bolt to the posts to stabilize them and help prevent swaying. V-stud shelf reinforcements anchor and support the shelves on their posts, and the studs can be moved to adjust the height of the shelves on the posts.

				OPEN		CLOSED	
Overall Width	Overall Depth	Load Capacity per Shelf *	Color	Starter Item No.	Add-On Item No.	Starter Item No.	Add-On Item No.
7-Shelf Units							
36 in	18 in	700 lb	Gray	**36G076**	**36G101**	**36G032**	**36G064**
		700 lb	Putty	**36G077**	**36G102**	**36G033**	**36G065**
		700 lb	Blue	**36G078**	**36G103**	**36G034**	**36G066**
		700 lb	Red	**36G079**	**36G104**	**36G035**	**36G067**
5-Shelf Units							
42 in	12 in	500 lb	Gray	**36G092**	**36G113**	**36G040**	**36G060**
		500 lb	Putty	**36G093**	**36G114**	**36G041**	**36G061**
		500 lb	Blue	**36G094**	**36G115**	**36G042**	**36G062**
		500 lb	Red	**36G095**	**36G116**	**36G043**	**36G063**
	18 in	500 lb	Gray	**36G056**	**36G080**	**36F987**	**36G044**
		500 lb	Putty	**36G057**	**36G081**	**36F988**	**36G045**
		500 lb	Blue	**36G058**	**36G082**	**36F989**	**36G046**
		500 lb	Red	**36G059**	**36G083**	**36F990**	**36G047**
36 in	12 in	650 lb	Gray	**36G117**	**36G125**	**36G072**	**36G105**
		650 lb	Putty	**36G118**	**36G126**	**36G073**	**36G106**
		650 lb	Blue	**36G119**	**36G127**	**36G074**	**36G107**
		650 lb	Red	**36G120**	**36G128**	**36G075**	**36G108**
	18 in	700 lb	Gray	**36G096**	**36G121**	**36G048**	**36G088**
		700 lb	Putty	**36G097**	**36G122**	**36G049**	**36G089**
		700 lb	Blue	**36G098**	**36G123**	**36G050**	**36G090**
		700 lb	Red	**36G099**	**36G124**	**36G051**	**36G091**
	24 in	721 lb	Gray	**36G084**	**36G109**	**36G024**	**36G068**
		721 lb	Putty	**36G085**	**36G110**	**36G025**	**36G069**
		721 lb	Blue	**36G086**	**36G111**	**36G026**	**36G070**
		721 lb	Red	**36G087**	**36G112**	**36G027**	**36G071**

** Based on evenly distributed loads.*

1XEC2

Vestil

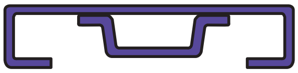
Corrosion-Resistant Open Metal Shelving

- 72"H units with 4 shelves
- 18-ga. posts and shelves

Units resist rusting when used in kitchens, laboratories, and other environments where they will get damp or wet. Include posts and shelves and are not enclosed with back or side panels, so items stored on the shelves can be viewed from all sides. Freestanding units provide space for organizing and staging tools, supplies, and inventory. Efficiently utilize vertical space in work areas and storage areas without having to mount shelving to a wall.

Overall Width	Overall Depth	Load Capacity per Shelf *	Item No.
36 in	18 in	600 lb	**1XEC2**
	24 in	600 lb	**1XEC4**
48 in	18 in	600 lb	**1XEC3**
	24 in	600 lb	**1XEC5**

** Based on evenly distributed loads.*



Each shelf has an additional channel-formed stiffener welded to the underside of the shelf to prevent flexing under heavy loads.

Hallowell edsal StrongHold DURHAM MFG Est. 1922

Extra-Heavy-Duty Bolted Metal Shelving

- Shelves adjust in 1" increments
- 14-ga. steel shelves, gray powder-coated finish
- 5 shelf levels

Standalone units bolt together and provide more strength and rigidity than open metal shelving units with lower duty levels. Able to hold dies, fixtures, jigs, and other very heavy equipment. Sturdy posts provide a frame for the shelves which bolt onto the posts.

Overall WxD	Overall Height	Load Capacity per Shelf *	Shelf Adjustment Increments	Post Gauge	Brand	Item No.
36 in x 18 in	84 in	2,800 lb	1 in	13 ga	Hallowell	**30LV88**
		3,000 lb	1 ½ in	14 ga	Edsal	**7E504**
48 in x 18 in	72 in	1,200 lb	1 in	12 ga	Strong Hold	**16A412**
		3,000 lb	1 in	12 ga	Durham Mfg	**16D703**
	84 in	2,600 lb	1 in	13 ga	Hallowell	**30LV89**
		3,000 lb	1 ½ in	14 ga	Edsal	**7E510**
	96 in	3,000 lb	1 in	12 ga	Durham Mfg	**16D706**
48 in x 24 in	72 in	1,600 lb	1 in	12 ga	Strong Hold	**16A413**
		3,000 lb	1 in	12 ga	Durham Mfg	**16D704**
	84 in	2,500 lb	1 in	13 ga	Hallowell	**30LV90**
		3,000 lb	1 ½ in	14 ga	Edsal	**7E511**
	96 in	3,000 lb	1 in	12 ga	Durham Mfg	**16D707**
60 in x 24 in	72 in	2,000 lb	1 in	12 ga	Strong Hold	**16A414**
		3,000 lb	1 in	12 ga	Durham Mfg	**16D705**
	84 in	2,300 lb	1 in	13 ga	Hallowell	**30LV91**
		3,000 lb	1 ½ in	14 ga	Edsal	**7E513**
	96 in	3,000 lb	1 in	12 ga	Durham Mfg	**16D708**
72 in x 24 in	84 in	2,000 lb	1 in	13 ga	Hallowell	**30LV92**
		3,000 lb	1 ½ in	14 ga	Edsal	**7E514**

** Based on evenly distributed loads.*

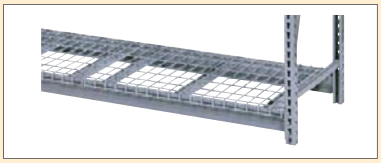
Boltless & Bulk Rack Decking Options

NO DECKING
Allows for customization of decking based on need.

PARTICLEBOARD DECKING
Economical choice for heavy load storage. Durable, smooth solid surface. Meets or exceeds ANSI-M2 standards.

LAMINATE DECKING
Laminate surface bonded to particleboard core provides a smooth finished surface that is easy to clean and moisture-resistant.

WIRE DECKING
Wire-mesh design allows a clear view of inventory and prevents accumulation of dirt, oil, and debris. It also maximizes the efficiency of sprinkler systems and allows better air circulation and light penetration.



RIBBED-STEEL DECKING
Provides extra strength and rigidity for heavy load storage. Ribs create a space to grab packages easily without pinching fingers.

ADDITIONAL DECKING
Bulk Storage and Boltless Storage Racks are available with or without decking. Additional decking can be ordered separately on Grainger.com®.

ADDITIONAL SHELF LEVELS
Additional shelves increase the available volume of storage while reducing the customer cost per square foot of storage.

BEAM PROFILE
Angle: A common L-shaped beam profile that provides good load carrying capability across different duty ratings depending on material gauge.
Channel: C-shaped profiles provide the greatest load carrying capacities for heavy and extra-heavy duty shelving depending on material gauge.
Low Profile: Light- & medium-duty beam profile with low overall height that maximizes vertical storage space access.
Z-Beam: Z-shaped profile balances strength and height to provide greater load capacity than low profile beams, but provides greater vertical storage space than angled beams and the ability to flush mount decking.

tennsco
Storage Made Easy

Light-Duty Boltless Shelving

- 5 shelves
- 14-ga. steel shelves; starters have 14-ga. posts and add-ons have 16-ga. posts

Suitable for basic storage of relatively lightweight items.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Beam Profile	STARTER Item No.	ADD-ON Item No.
Wire Decking						
84 in	36 in	12 in	600 lb	Low Profile	44P731	44P732
		15 in	600 lb	Low Profile	44P733	44P734
		18 in	600 lb	Low Profile	44P735	44P736
		24 in	600 lb	Low Profile	44P737	44P738
		30 in	600 lb	Low Profile	44P739	44P740
		36 in	600 lb	Low Profile	44P741	44P742
	42 in	18 in	550 lb	Low Profile	44P747	44P748
		24 in	550 lb	Low Profile	44P749	44P750
		30 in	550 lb	Low Profile	44P751	44P752
		36 in	550 lb	Low Profile	44P753	44P754
	48 in	12 in	500 lb	Low Profile	44P755	44P756
		15 in	500 lb	Low Profile	44P757	44P758
		18 in	500 lb	Low Profile	44P759	44P760
		24 in	500 lb	Low Profile	44P761	44P762
		30 in	500 lb	Low Profile	44P763	44P764
		36 in	500 lb	Low Profile	44P765	44P766
Solid Steel Decking						
84 in	36 in	12 in	750 lb	Z-Beam	44P767	44P768
		15 in	750 lb	Z-Beam	44P769	44P770
		18 in	750 lb	Z-Beam	44P771	44P772
		24 in	700 lb	Z-Beam	44P773	44P774
		30 in	600 lb	Z-Beam	44P775	44P776
		36 in	600 lb	Z-Beam	44P777	44P778
	42 in	12 in	600 lb	Z-Beam	44P779	44P780
		15 in	600 lb	Z-Beam	44P781	44P782
		18 in	600 lb	Z-Beam	44P783	44P784
		24 in	550 lb	Z-Beam	44P785	44P786
	48 in	12 in	500 lb	Z-Beam	44P787	44P788
		15 in	500 lb	Z-Beam	44P789	44P790
		18 in	500 lb	Z-Beam	44P791	44P792
		24 in	450 lb	Z-Beam	44P793	44P794
		30 in	500 lb	Z-Beam	44P795	44P796
Particleboard Decking						
84 in	36 in	12 in	600 lb	Low Profile	36K430	36K431
		15 in	600 lb	Low Profile	44P707	44P708
		18 in	600 lb	Low Profile	36K432	36K433
		24 in	600 lb	Low Profile	36K434	36K435
		30 in	600 lb	Low Profile	44P709	44P710
		36 in	600 lb	Low Profile	44P711	44P712
	42 in	12 in	550 lb	Low Profile	44P713	44P714
		15 in	550 lb	Low Profile	44P715	44P716
		18 in	550 lb	Low Profile	44P717	44P718
		24 in	550 lb	Low Profile	44P719	44P720
		30 in	550 lb	Low Profile	44P721	44P722
		36 in	550 lb	Low Profile	44P723	44P724
	48 in	12 in	500 lb	Low Profile	36K436	36K437
		15 in	500 lb	Low Profile	44P725	44P726
		18 in	500 lb	Low Profile	36K438	36K439
		24 in	500 lb	Low Profile	36K440	36K441
		30 in	500 lb	Low Profile	44P727	44P728
		36 in	500 lb	Low Profile	44P729	44P730

Starter
- 4 angle posts
- 5 shelf levels

Add-On
- 2 T-posts
- 3 shelf levels

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Beam Profile	STARTER Item No.	ADD-ON Item No.
96 in	36 in	18 in	600 lb	Low Profile	39FN01	39FM99
			500 lb	Low Profile	39FN05	39FN04
		24 in	600 lb	Low Profile	39FN03	39FN02
			500 lb	Low Profile	—	39FN06
	48 in		500 lb	Low Profile	39FN07	—
120 in	36 in	18 in	600 lb	Low Profile	39FN37	39FN36
		24 in	600 lb	Low Profile	39FN39	39FN38
	48 in	18 in	500 lb	Low Profile	39FN41	39FN40
		24 in	500 lb	Low Profile	39FN43	39FN42
Open Deck						
84 in	36 in	12 in	600 lb	Low Profile	36K401	36K407
		15 in	600 lb	Low Profile	44P682	44P683
		18 in	600 lb	Low Profile	36K408	36K409
		24 in	600 lb	Low Profile	36K410	36K411
		30 in	600 lb	Low Profile	44P684	44P685
		36 in	600 lb	Low Profile	44P686	44P687
	42 in	12 in	550 lb	Low Profile	44P688	44P689
		15 in	550 lb	Low Profile	44P690	44P691
		18 in	550 lb	Low Profile	44P692	44P693
		24 in	550 lb	Low Profile	44P694	44P695
		30 in	550 lb	Low Profile	44P696	44P697
		36 in	550 lb	Low Profile	44P698	44P699
	48 in	12 in	500 lb	Low Profile	36K412	36K413
		15 in	500 lb	Low Profile	44P701	44P702
		18 in	500 lb	Low Profile	36K414	36K415
		24 in	500 lb	Low Profile	36K416	36K417
		30 in	500 lb	Low Profile	44P703	44P704
		36 in	500 lb	Low Profile	44P705	44P706

** Based on evenly distributed loads.*

Medium-Duty Boltless Shelving

Medium-duty units are generally sturdier and can hold heavier items than light-duty units. Boltless shelving beams have rivets that fit into holes on the posts to connect them, and the beams are tapped in place with a rubber mallet to ensure a tight fit. Compatible with shelving components from the same manufacturer.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Beam Profile	Color	Shelving Gauge	Brand	STARTER Item No.	STARTER Post Gauge	ADD-ON Item No.	ADD-ON Post Gauge
Wire Decking											
5 Shelves											
84 in	36 in	12 in	850 lb	Low Profile	Gray	14	Tennsco	**44P646**	14 ga	**44P647**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R009**	14 ga	**44R010**	16 ga
		15 in	850 lb	Low Profile	Gray	14	Tennsco	**44P648**	14 ga	**44P649**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R011**	14 ga	**44R012**	16 ga
		18 in	850 lb	Low Profile	Gray	14	Tennsco	**44P650**	14 ga	**44P651**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R013**	14 ga	**44R014**	16 ga
		24 in	850 lb	Low Profile	Gray	14	Tennsco	**44P652**	14 ga	**44P653**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R015**	14 ga	**44R016**	16 ga
		30 in	850 lb	Low Profile	Gray	14	Tennsco	**44P654**	14 ga	**44P655**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R017**	14 ga	**44R018**	16 ga
		36 in	850 lb	Low Profile	Gray	14	Tennsco	**44P656**	14 ga	**44P657**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44R019**	14 ga	**44R020**	16 ga
	42 in	12 in	800 lb	Low Profile	Gray	14	Tennsco	**44P658**	14 ga	**44P659**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R021**	14 ga	**44R022**	16 ga
		15 in	800 lb	Low Profile	Gray	14	Tennsco	**44P660**	14 ga	**44P661**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R023**	14 ga	**44R024**	16 ga
		18 in	800 lb	Low Profile	Gray	14	Tennsco	**44P662**	14 ga	**44P663**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R025**	14 ga	**44R026**	16 ga
		24 in	800 lb	Low Profile	Gray	14	Tennsco	**44P664**	14 ga	**44P665**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R027**	14 ga	**44R028**	16 ga
		30 in	800 lb	Low Profile	Gray	14	Tennsco	**44P666**	14 ga	**44P667**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R029**	14 ga	**44R030**	16 ga
		36 in	800 lb	Low Profile	Gray	14	Tennsco	**44P668**	14 ga	**44P669**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44R031**	14 ga	**44R032**	16 ga
	48 in	12 in	750 lb	Low Profile	Gray	14	Tennsco	**44P670**	14 ga	**44P671**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R033**	14 ga	**44R034**	16 ga
		15 in	750 lb	Low Profile	Gray	14	Tennsco	**44P672**	14 ga	**44P673**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R035**	14 ga	**44R036**	16 ga
		18 in	750 lb	Low Profile	Gray	14	Tennsco	**44P674**	14 ga	**44P675**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R037**	14 ga	**44R038**	16 ga
		24 in	750 lb	Low Profile	Gray	14	Tennsco	**44P676**	14 ga	**44P677**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R039**	14 ga	**44R040**	16 ga
		30 in	750 lb	Low Profile	Gray	14	Tennsco	**44P678**	14 ga	**44P679**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R041**	14 ga	**44R042**	16 ga
		36 in	750 lb	Low Profile	Gray	14	Tennsco	**44P680**	14 ga	**44P681**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44R043**	14 ga	**44R044**	16 ga
	60 in	12 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R045**	14 ga	**44R046**	16 ga
		18 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R047**	14 ga	**44R048**	16 ga
		24 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R049**	14 ga	**44R050**	16 ga
		30 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R051**	14 ga	**44R052**	16 ga
		36 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R053**	14 ga	**44R054**	16 ga
		48 in	750 lb	Z-Beam	Gray	11	Tennsco	**44R055**	14 ga	**44R056**	16 ga
	72 in	15 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R057**	14 ga	**44R058**	16 ga
		18 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R059**	14 ga	**44R060**	16 ga
		24 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R061**	14 ga	**44R062**	16 ga
		30 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R063**	14 ga	**44R064**	16 ga
		36 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R065**	14 ga	**44R066**	16 ga
		48 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R067**	14 ga	**44R068**	16 ga
3 Shelves											
84 in	48 in	18 in	900 lb	Angle	Black	4	Hallowell	**14C690**	14 ga	**14C691**	14 ga
		24 in	700 lb	Angle	Black	4	Hallowell	**14C692**	14 ga	**14C693**	14 ga
		30 in	550 lb	Angle	Black	4	Hallowell	**14C694**	14 ga	**14C695**	14 ga
		36 in	500 lb	Angle	Black	4	Hallowell	**14C696**	14 ga	**14C697**	14 ga
		48 in	500 lb	Angle	Black	4	Hallowell	**14C698**	14 ga	**14C699**	14 ga
	60 in	18 in	1200 lb	Angle	Black	4	Hallowell	**14C701**	14 ga	**14C702**	14 ga
		24 in	1400 lb	Angle	Black	4	Hallowell	**14C703**	14 ga	**14C704**	14 ga
		30 in	1000 lb	Angle	Black	4	Hallowell	**14C705**	14 ga	**14C706**	14 ga
		36 in	1000 lb	Angle	Black	4	Hallowell	**14C707**	14 ga	**14C708**	14 ga
		48 in	1000 lb	Angle	Black	4	Hallowell	**14C709**	14 ga	**14C710**	14 ga
	72 in	18 in	1000 lb	Angle	Black	4	Hallowell	**14C711**	14 ga	**14C712**	14 ga
		24 in	1000 lb	Angle	Black	4	Hallowell	**14C713**	14 ga	**14C714**	14 ga
		30 in	1000 lb	Angle	Black	4	Hallowell	**14C715**	14 ga	**14C716**	14 ga
		36 in	1000 lb	Angle	Black	4	Hallowell	**14C717**	14 ga	**14C718**	14 ga
		48 in	1000 lb	Angle	Black	4	Hallowell	**14C719**	14 ga	**14C720**	14 ga
	96 in	18 in	620 lb	Angle	Black	4	Hallowell	**14C721**	14 ga	**14C722**	14 ga
		24 in	620 lb	Angle	Black	4	Hallowell	**14C723**	14 ga	**14C724**	14 ga
		30 in	620 lb	Angle	Black	4	Hallowell	**14C725**	14 ga	**14C726**	14 ga
		36 in	620 lb	Angle	Black	4	Hallowell	**14C727**	14 ga	**14C728**	14 ga
		48 in	620 lb	Angle	Black	4	Hallowell	**14C729**	14 ga	**14C730**	14 ga
Solid Steel Decking											
5 Shelves											
78 in	36 in	18 in	950 lb	Low Profile	Light Gray	14	Tennsco	**45UW13**	18 ga	**45UW25**	18 ga
		24 in	900 lb	Low Profile	Light Gray	14	Tennsco	**45UW15**	18 ga	**45UW27**	18 ga
		36 in	900 lb	Low Profile	Light Gray	14	Tennsco	**45UW17**	18 ga	**45UW29**	18 ga
	48 in	18 in	700 lb	Low Profile	Light Gray	14	Tennsco	**45UW19**	18 ga	**45UW31**	18 ga
		24 in	800 lb	Low Profile	Light Gray	14	Tennsco	**45UW21**	18 ga	**45UW33**	18 ga
		36 in	700 lb	Low Profile	Light Gray	14	Tennsco	**45UW23**	18 ga	**45UW35**	18 ga
3 Shelves											
84 in	48 in	18 in	770 lb	Angle	Black	22	Hallowell	**14L265**	14 ga	**14L266**	14 ga
		24 in	700 lb	Angle	Black	22	Hallowell	**14L267**	14 ga	**14L268**	14 ga
		30 in	705 lb	Angle	Black	22	Hallowell	**14L269**	14 ga	**14L270**	14 ga
		36 in	755 lb	Angle	Black	22	Hallowell	**14L271**	14 ga	**14L272**	14 ga
	60 in	18 in	835 lb	Angle	Black	22	Hallowell	**14C640**	14 ga	**14C641**	14 ga
		24 in	700 lb	Angle	Black	22	Hallowell	**14C642**	14 ga	**14C643**	14 ga
		30 in	650 lb	Angle	Black	22	Hallowell	**14C644**	14 ga	**14C645**	14 ga
		36 in	655 lb	Angle	Black	22	Hallowell	**14C646**	14 ga	**14C647**	14 ga
		48 in	750 lb	Angle	Black	22	Hallowell	**14C648**	14 ga	**14C649**	14 ga
	72 in	18 in	1000 lb	Angle	Black	22	Hallowell	**14C650**	14 ga	**14C651**	14 ga
		24 in	770 lb	Angle	Black	22	Hallowell	**14C652**	14 ga	**14C653**	14 ga
		30 in	680 lb	Angle	Black	22	Hallowell	**14C654**	14 ga	**14C655**	14 ga
		36 in	655 lb	Angle	Black	22	Hallowell	**14C656**	14 ga	**14C657**	14 ga
		48 in	685 lb	Angle	Black	22	Hallowell	**14C658**	14 ga	**14C659**	14 ga
	96 in	18 in	620 lb	Angle	Black	22	Hallowell	**14C660**	14 ga	**14C661**	14 ga
		24 in	620 lb	Angle	Black	22	Hallowell	**14C662**	14 ga	**14C663**	14 ga
		30 in	620 lb	Angle	Black	22	Hallowell	**14C664**	14 ga	**14C665**	14 ga
		36 in	620 lb	Angle	Black	22	Hallowell	**14C666**	14 ga	**14C667**	14 ga
		48 in	620 lb	Angle	Black	22	Hallowell	**14C668**	14 ga	**14C669**	14 ga

** Based on evenly distributed load.*

Wire Decking
14C690

Solid Steel Decking
45UW13

CONTINUED

Find additional Storage Rack Decking information on page 1228.

Particleboard Decking, Starter 36K428

Rivet Hole Connection

Particleboard Decking, Add-On 14L167 (Supplies not included.)

CONTINUED

Medium-Duty Boltless Shelving

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Beam Profile	Color	Shelving Gauge	Brand	STARTER Item No.	STARTER Post Gauge	ADD-ON Item No.	ADD-ON Post Gauge
Particleboard Decking											
5 Shelves											
84 in	36 in	12 in	850 lb	Low Profile	Gray	14	Tennsco	**44P610**	14 ga	**44P611**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**36K418**	14 ga	**36K419**	16 ga
		15 in	850 lb	Low Profile	Gray	14	Tennsco	**44P612**	14 ga	**44P613**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44P956**	14 ga	**44P957**	16 ga
		18 in	850 lb	Low Profile	Gray	14	Tennsco	**44P614**	14 ga	**44P615**	14 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**36K420**	14 ga	**36K424**	16 ga
		24 in	850 lb	Low Profile	Gray	14	Tennsco	**44P616**	16 ga	**44P617**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**36K421**	14 ga	**36K422**	16 ga
		30 in	850 lb	Low Profile	Gray	14	Tennsco	**44P618**	14 ga	**44P619**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44P958**	14 ga	**44P959**	16 ga
		36 in	850 lb	Low Profile	Gray	14	Tennsco	**44P620**	14 ga	**44P621**	16 ga
			1000 lb	Z-Beam	Gray	14	Tennsco	**44P960**	14 ga	**44P961**	16 ga
	42 in	12 in	800 lb	Low Profile	Gray	14	Tennsco	**44P622**	14 ga	**44P623**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P962**	14 ga	**44P963**	16 ga
		15 in	800 lb	Low Profile	Gray	14	Tennsco	**44P624**	14 ga	**44P625**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P964**	14 ga	**44P965**	16 ga
		18 in	800 lb	Low Profile	Gray	14	Tennsco	**44P626**	14 ga	**44P627**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P966**	14 ga	**44P967**	16 ga
		24 in	800 lb	Low Profile	Gray	14	Tennsco	**44P628**	14 ga	**44P629**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P968**	14 ga	**44P969**	16 ga
		30 in	800 lb	Low Profile	Gray	14	Tennsco	**44P630**	14 ga	**44P631**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P970**	14 ga	**44P971**	16 ga
		36 in	800 lb	Low Profile	Gray	14	Tennsco	**44P632**	14 ga	**44P633**	16 ga
			900 lb	Z-Beam	Gray	14	Tennsco	**44P972**	14 ga	**44P973**	16 ga
	48 in	12 in	750 lb	Low Profile	Gray	14	Tennsco	**44P634**	14 ga	**44P635**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**36K423**	14 ga	**36K425**	16 ga
		15 in	750 lb	Low Profile	Gray	14	Tennsco	**44P636**	14 ga	**44P637**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44P974**	14 ga	**44P975**	16 ga
		18 in	750 lb	Low Profile	Gray	14	Tennsco	**44P638**	14 ga	**44P639**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**36K426**	14 ga	**36K427**	16 ga
		24 in	750 lb	Low Profile	Gray	14	Tennsco	**44P640**	14 ga	**44P641**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**36K428**	14 ga	**36K429**	16 ga
		30 in	750 lb	Low Profile	Gray	14	Tennsco	**44P642**	14 ga	**44P643**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44P976**	14 ga	**44P977**	16 ga
		36 in	750 lb	Low Profile	Gray	14	Tennsco	**44P644**	14 ga	**44P645**	16 ga
			850 lb	Z-Beam	Gray	14	Tennsco	**44P978**	14 ga	**44P979**	16 ga
	60 in	12 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P980**	14 ga	**44P981**	16 ga
		15 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P982**	14 ga	**44P983**	16 ga
		18 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P984**	14 ga	**44P985**	16 ga
		24 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P986**	14 ga	**44P987**	16 ga
		30 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P988**	14 ga	**44P989**	16 ga
		36 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P990**	14 ga	**44P991**	16 ga
		48 in	750 lb	Z-Beam	Gray	11	Tennsco	**44P992**	14 ga	**44P993**	16 ga
	72 in	12 in	600 lb	Z-Beam	Gray	11	Tennsco	**44P994**	14 ga	**44P995**	16 ga
		15 in	600 lb	Z-Beam	Gray	11	Tennsco	**44P996**	14 ga	**44P997**	16 ga
		18 in	600 lb	Z-Beam	Gray	11	Tennsco	**44P998**	14 ga	**44P999**	16 ga
		24 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R001**	14 ga	**44R002**	16 ga
		30 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R003**	14 ga	**44R004**	16 ga
		36 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R005**	14 ga	**44R006**	16 ga
		48 in	600 lb	Z-Beam	Gray	11	Tennsco	**44R007**	14 ga	**44R008**	16 ga
96 in	36 in	18 in	1000 lb	Z-Beam	Gray	14	Tennsco	**39FN09**	14 ga	**39FN08**	16 ga
		24 in	1000 lb	Z-Beam	Gray	14	Tennsco	**39FN11**	14 ga	**39FN10**	16 ga
	48 in	18 in	850 lb	Z-Beam	Gray	14	Tennsco	**39FN13**	14 ga	**39FN12**	16 ga
		24 in	850 lb	Z-Beam	Gray	14	Tennsco	**39FN15**	14 ga	**39FN14**	16 ga
4 Shelves											
84 in	36 in	24 in	1000 lb	Z-Beam	Sand	14	Tennsco	**33KE21**	14 ga	**8PK11**	16 ga
	48 in	18 in	850 lb	Z-Beam	Sand	14	Tennsco	**9JA14**	14 ga	**8DH53**	14 ga
		24 in	850 lb	Z-Beam	Sand	14	Tennsco	**9RCP7**	14 ga	**8DH54**	16 ga
		36 in	850 lb	Z-Beam	Sand	14	Tennsco	**9WFW3**	14 ga	**9ATV3**	16 ga
	60 in	18 in	750 lb	Z-Beam	Sand	11	Tennsco	**8DT18**	14 ga	**8DRH1**	16 ga
		24 in	750 lb	Z-Beam	Sand	11	Tennsco	**8ZFG0**	14 ga	**8NFM7**	16 ga
		36 in	750 lb	Z-Beam	Sand	11	Tennsco	**8TUE5**	14 ga	**8PGM7**	16 ga
	72 in	18 in	500 lb	Z-Beam	Sand	11	Tennsco	**8RRN4**	14 ga	**8Y182**	16 ga
		36 in	500 lb	Z-Beam	Sand	11	Tennsco	**8DRC2**	14 ga	**8EGD4**	16 ga
3 Shelves											
84 in	48 in	18 in	770 lb	Angle	Black	16	Hallowell	**14L144**	14 ga	**14L145**	14 ga
		24 in	700 lb	Angle	Black	16	Hallowell	**14L146**	14 ga	**14L147**	14 ga
		30 in	705 lb	Angle	Black	16	Hallowell	**14L148**	14 ga	**14L149**	14 ga
		36 in	755 lb	Angle	Black	16	Hallowell	**14L150**	14 ga	**14L151**	14 ga
		48 in	920 lb	Angle	Black	16	Hallowell	**14L152**	14 ga	**14L153**	14 ga
	60 in	18 in	835 lb	Angle	Black	16	Hallowell	**14L154**	14 ga	**14L155**	14 ga
		24 in	700 lb	Angle	Black	16	Hallowell	**14L156**	14 ga	**14L157**	14 ga
		30 in	650 lb	Angle	Black	16	Hallowell	**14L158**	14 ga	**14L159**	14 ga
		36 in	655 lb	Angle	Black	16	Hallowell	**14L160**	14 ga	**14L161**	14 ga
		48 in	750 lb	Angle	Black	16	Hallowell	**14L162**	14 ga	**14L163**	14 ga
	72 in	18 in	1000 lb	Angle	Black	16	Hallowell	**14L164**	14 ga	**14L165**	14 ga
		24 in	770 lb	Angle	Black	16	Hallowell	**14L166**	14 ga	**14L167**	14 ga
		30 in	680 lb	Angle	Black	16	Hallowell	**14L168**	14 ga	**14L169**	14 ga
		36 in	655 lb	Angle	Black	16	Hallowell	**14L170**	14 ga	**14L171**	14 ga
		48 in	685 lb	Angle	Black	16	Hallowell	**14L172**	14 ga	**14L173**	14 ga
	96 in	18 in	620 lb	Angle	Black	16	Hallowell	**14L174**	14 ga	**14L175**	14 ga
		24 in	620 lb	Angle	Black	16	Hallowell	**14L176**	14 ga	**14L177**	14 ga
		30 in	620 lb	Angle	Black	16	Hallowell	**14L178**	14 ga	**14L179**	14 ga
		36 in	620 lb	Angle	Black	16	Hallowell	**14L180**	14 ga	**14L181**	14 ga
		48 in	620 lb	Angle	Black	16	Hallowell	**14L182**	14 ga	**14L183**	14 ga

** Based on evenly distributed load.*

tennsco Storage Made Easy

Heavy-Duty Boltless Shelving

- 3 shelves
- Gray 14-ga. steel shelves

Generally sturdier and can hold heavier items than light-duty and medium-duty shelving units. The decking installs over the shelving units' beams to distribute the weight of items placed on the decking across the beams.

Add-On with Wire Decking 36K333

Add-On with Particleboard Decking 36K290

Starter with Particleboard Decking 36K295

			ANGLE BEAM						CHANNEL BEAM					
			Starter			Add-On			Starter			Add-On		
Overall Height	Overall Width	Overall Depth	Item No.	Post Gauge	Load Capacity per Shelf *	Item No.	Post Gauge	Load Capacity per Shelf *	Item No.	Post Gauge	Load Capacity per Shelf *	Item No.	Post Gauge	Load Capacity per Shelf *
Wire Decking														
60 in	48 in	24 in	36K332	14 ga	2,250 lb	36K333	16 ga	2,250 lb	—	—	—	—	—	—
	72 in	24 in	36K346	14 ga	1,750 lb	36K347	16 ga	1,750 lb	—	—	—	—	—	—
		36 in	36K348	14 ga	1,750 lb	36K349	16 ga	1,750 lb	—	—	—	—	—	—
		48 in	36K350	14 ga	1,750 lb	36K351	16 ga	1,750 lb	—	—	—	—	—	—
	96 in	24 in	36K364	14 ga	1,250 lb	36K365	16 ga	1,250 lb	—	—	—	—	—	—
		36 in	36K366	14 ga	1,250 lb	36K367	16 ga	1,250 lb	—	—	—	—	—	—
		48 in	36K368	14 ga	1,250 lb	36K369	16 ga	1,250 lb	—	—	—	—	—	—
84 in	42 in	18 in	44P361	14 ga	2,250 lb	44P362	16 ga	2,250 lb	44P309	14 ga	2,500 lb	44P310	16 ga	2,500 lb
		24 in	44P363	14 ga	2,250 lb	44P364	16 ga	2,250 lb	44P311	14 ga	2,500 lb	44P312	16 ga	2,500 lb
		30 in	44P365	14 ga	2,250 lb	44P366	16 ga	2,250 lb	44P313	14 ga	2,500 lb	44P314	16 ga	2,500 lb
		36 in	44P367	14 ga	2,250 lb	44P368	16 ga	2,250 lb	44P315	14 ga	2,500 lb	44P316	16 ga	2,500 lb
		42 in	44P369	14 ga	2,250 lb	44P370	16 ga	2,250 lb	44P317	14 ga	2,500 lb	44P318	16 ga	2,500 lb
	48 in	18 in	44P371	14 ga	2,250 lb	44P372	16 ga	2,250 lb	44P319	14 ga	2,500 lb	44P320	16 ga	2,500 lb
		24 in	36K334	14 ga	2,250 lb	36K335	16 ga	2,250 lb	36K326	14 ga	2,500 lb	36K327	16 ga	2,500 lb
		30 in	44P373	14 ga	2,250 lb	44P374	16 ga	2,250 lb	44P321	14 ga	2,500 lb	44P322	16 ga	2,500 lb
		36 in	36K336	14 ga	2,250 lb	36K337	16 ga	2,250 lb	36K328	14 ga	2,500 lb	36K329	16 ga	2,500 lb
		42 in	44P375	14 ga	2,250 lb	44P376	16 ga	2,250 lb	44P323	14 ga	2,500 lb	44P324	16 ga	2,500 lb
		48 in	36K338	14 ga	2,250 lb	36K339	16 ga	2,250 lb	36K330	14 ga	2,500 lb	36K331	16 ga	2,500 lb
	60 in	18 in	44P377	14 ga	2,000 lb	44P378	16 ga	2,000 lb	44P325	14 ga	2,250 lb	44P326	16 ga	2,250 lb
		24 in	44P379	14 ga	2,000 lb	44P380	16 ga	2,000 lb	44P327	14 ga	2,250 lb	44P328	16 ga	2,250 lb
		30 in	44P381	14 ga	2,000 lb	44P382	16 ga	2,000 lb	44P329	14 ga	2,250 lb	44P330	16 ga	2,250 lb
		36 in	44P383	14 ga	2,000 lb	44P384	16 ga	2,000 lb	44P331	14 ga	2,250 lb	44P332	16 ga	2,250 lb
		48 in	44P387	14 ga	2,000 lb	44P388	16 ga	2,000 lb	44P335	14 ga	2,250 lb	44P336	16 ga	2,250 lb
	72 in	18 in	44P389	14 ga	1,750 lb	44P390	16 ga	1,750 lb	44P337	14 ga	2,000 lb	44P338	16 ga	2,000 lb
		24 in	36K352	14 ga	1,750 lb	36K353	16 ga	1,750 lb	36K340	14 ga	2,000 lb	36K341	16 ga	2,000 lb
		30 in	44P391	14 ga	1,750 lb	44P392	16 ga	1,750 lb	44P339	14 ga	2,000 lb	44P340	16 ga	2,000 lb
		36 in	36K354	14 ga	1,750 lb	36K355	16 ga	1,750 lb	36K342	14 ga	2,000 lb	36K343	16 ga	2,000 lb
		42 in	44P393	14 ga	1,750 lb	44P394	16 ga	1,750 lb	44P341	14 ga	2,000 lb	44P342	16 ga	2,000 lb
		48 in	36K356	14 ga	1,750 lb	36K357	16 ga	1,750 lb	36K344	14 ga	2,000 lb	36K345	16 ga	2,000 lb
	84 in	18 in	44P395	14 ga	1,500 lb	44P396	16 ga	1,500 lb	44P343	14 ga	1,750 lb	44P344	16 ga	1,750 lb
		24 in	44P397	14 ga	1,500 lb	44P398	16 ga	1,500 lb	44P345	14 ga	1,750 lb	44P346	16 ga	1,750 lb
		30 in	44P399	14 ga	1,500 lb	44P401	16 ga	1,500 lb	44P347	14 ga	1,750 lb	44P348	16 ga	1,750 lb
		36 in	44P402	14 ga	1,500 lb	44P403	16 ga	1,500 lb	44P349	14 ga	1,750 lb	44P350	16 ga	1,750 lb
		42 in	44P404	14 ga	1,500 lb	44P405	16 ga	1,500 lb	44P351	14 ga	1,750 lb	44P352	16 ga	1,750 lb
		48 in	44P406	14 ga	1,500 lb	44P407	16 ga	1,500 lb	44P353	14 ga	1,750 lb	44P354	16 ga	1,750 lb
	96 in	18 in	44P408	14 ga	1,250 lb	44P409	16 ga	1,250 lb	44P355	14 ga	1,600 lb	44P356	16 ga	1,600 lb
		24 in	36K370	14 ga	1,250 lb	36K371	16 ga	1,250 lb	36K358	14 ga	1,600 lb	36K359	16 ga	1,600 lb
		30 in	44P410	14 ga	1,250 lb	44P411	16 ga	1,250 lb	44P357	14 ga	1,600 lb	44P358	16 ga	1,600 lb
		36 in	36K372	14 ga	1,250 lb	36K373	16 ga	1,250 lb	36K360	14 ga	1,600 lb	36K361	16 ga	1,600 lb
		42 in	44P412	14 ga	1,250 lb	44P413	16 ga	1,250 lb	44P359	14 ga	1,600 lb	44P360	16 ga	1,600 lb
		48 in	36K374	14 ga	1,250 lb	36K375	16 ga	1,250 lb	36K362	14 ga	1,600 lb	36K363	16 ga	1,600 lb
Particleboard Decking														
60 in	48 in	24 in	36K287	14 ga	2,250 lb	36K288	16 ga	2,250 lb	—	—	—	—	—	—
	72 in	24 in	36K302	14 ga	1,750 lb	36K303	16 ga	1,750 lb	—	—	—	—	—	—
		36 in	36K304	14 ga	1,750 lb	36K305	16 ga	1,750 lb	—	—	—	—	—	—
		48 in	36K306	14 ga	1,750 lb	36K307	16 ga	1,750 lb	—	—	—	—	—	—
	96 in	24 in	36K318	14 ga	1,250 lb	36K319	16 ga	1,250 lb	—	—	—	—	—	—
		36 in	36K320	14 ga	1,250 lb	36K321	16 ga	1,250 lb	—	—	—	—	—	—
84 in	42 in	18 in	44P254	14 ga	2,250 lb	44P255	16 ga	2,250 lb	44P198	14 ga	2,500 lb	44P199	16 ga	2,500 lb
		24 in	44P256	14 ga	2,250 lb	44P257	16 ga	2,250 lb	44P201	14 ga	2,500 lb	44P202	16 ga	2,500 lb
		30 in	44P258	14 ga	2,250 lb	44P259	16 ga	2,250 lb	44P203	14 ga	2,500 lb	44P204	16 ga	2,500 lb
		36 in	44P260	14 ga	2,250 lb	44P261	16 ga	2,250 lb	44P205	14 ga	2,500 lb	44P206	16 ga	2,500 lb
	48 in	18 in	44P264	14 ga	2,250 lb	44P265	16 ga	2,250 lb	44P209	14 ga	2,500 lb	44P210	16 ga	2,500 lb
		24 in	36K289	14 ga	2,250 lb	36K290	16 ga	2,250 lb	36K282	14 ga	2,500 lb	36K283	16 ga	2,500 lb
		30 in	44P266	14 ga	2,250 lb	44P267	16 ga	2,250 lb	44P211	14 ga	2,500 lb	44P212	16 ga	2,500 lb
		36 in	36K291	14 ga	2,250 lb	36K292	16 ga	2,250 lb	36K284	14 ga	2,500 lb	44P213	16 ga	2,500 lb
		42 in	44P268	14 ga	2,250 lb	44P269	16 ga	2,250 lb	44P214	14 ga	2,500 lb	44P215	16 ga	2,500 lb
		48 in	36K293	14 ga	2,250 lb	36K294	16 ga	2,250 lb	36K285	14 ga	2,500 lb	36K286	16 ga	2,500 lb
	60 in	18 in	44P270	14 ga	2,000 lb	44P271	16 ga	2,000 lb	44P216	14 ga	2,250 lb	44P217	16 ga	2,250 lb
		24 in	44P272	14 ga	2,000 lb	44P273	16 ga	2,000 lb	44P218	14 ga	2,250 lb	44P219	16 ga	2,250 lb
		30 in	44P274	14 ga	2,000 lb	44P275	16 ga	2,000 lb	44P220	14 ga	2,250 lb	44P221	16 ga	2,250 lb
		36 in	44P276	14 ga	2,000 lb	44P277	16 ga	2,000 lb	44P222	14 ga	2,250 lb	44P223	16 ga	2,250 lb
		42 in	44P278	14 ga	2,000 lb	44P279	16 ga	2,000 lb	44P224	14 ga	2,250 lb	44P225	16 ga	2,250 lb
		48 in	44P280	14 ga	2,000 lb	44P281	16 ga	2,000 lb	44P226	14 ga	2,250 lb	44P227	16 ga	2,250 lb
	72 in	18 in	44P282	14 ga	1,750 lb	44P283	16 ga	1,750 lb	44P228	14 ga	2,000 lb	44P229	16 ga	2,000 lb
		24 in	36K308	14 ga	1,750 lb	36K309	16 ga	1,750 lb	36K295	14 ga	2,000 lb	36K296	16 ga	2,000 lb
		30 in	44P284	14 ga	1,750 lb	44P285	16 ga	1,750 lb	44P230	14 ga	2,000 lb	44P231	16 ga	2,000 lb
		36 in	36K310	14 ga	1,750 lb	36K311	16 ga	1,750 lb	36K297	14 ga	2,000 lb	36K298	16 ga	2,000 lb
		42 in	44P286	14 ga	1,750 lb	44P287	16 ga	1,750 lb	44P232	14 ga	2,000 lb	44P233	16 ga	2,000 lb
		48 in	36K312	14 ga	1,750 lb	36K313	16 ga	1,750 lb	36K299	14 ga	2,000 lb	36K301	16 ga	2,000 lb
	84 in	18 in	44P288	14 ga	1,500 lb	44P289	16 ga	1,500 lb	44P234	14 ga	1,750 lb	44P235	16 ga	1,750 lb
		24 in	44P290	14 ga	1,500 lb	44P291	16 ga	1,500 lb	44P236	14 ga	1,750 lb	44P237	16 ga	1,750 lb
		30 in	44P292	14 ga	1,500 lb	44P293	16 ga	1,500 lb	44P238	14 ga	1,750 lb	44P239	16 ga	1,750 lb
		36 in	44P294	14 ga	1,500 lb	44P295	16 ga	1,500 lb	44P240	14 ga	1,750 lb	44P241	16 ga	1,750 lb
		42 in	44P296	14 ga	1,500 lb	44P297	16 ga	1,500 lb	44P242	14 ga	1,750 lb	44P243	16 ga	1,750 lb
		48 in	44P298	14 ga	1,500 lb	44P299	16 ga	1,500 lb	44P244	14 ga	1,750 lb	44P245	16 ga	1,750 lb
	96 in	18 in	44P301	14 ga	1,250 lb	44P302	16 ga	1,250 lb	44P246	14 ga	1,600 lb	44P247	16 ga	1,600 lb
		24 in	36K322	14 ga	1,250 lb	36K323	16 ga	1,250 lb	36K314	14 ga	1,600 lb	36K315	16 ga	1,600 lb
		30 in	44P303	14 ga	1,250 lb	44P304	16 ga	1,250 lb	44P248	14 ga	1,600 lb	44P249	16 ga	1,600 lb
		36 in	36K324	14 ga	1,250 lb	36K325	16 ga	1,250 lb	36K316	14 ga	1,600 lb	36K317	16 ga	1,600 lb
		42 in	44P305	14 ga	1,250 lb	44P306	16 ga	1,250 lb	44P250	14 ga	1,600 lb	44P251	16 ga	1,600 lb
		48 in	44P307	14 ga	1,250 lb	44P308	16 ga	1,250 lb	44P252	14 ga	1,600 lb	44P253	16 ga	1,600 lb

*** Based on evenly distributed loads.***

Scan. Order. Done.
Details on page A1.

30LV72

tennsco Storage Made Easy | Hallowell

Extra Heavy-Duty Boltless Shelving

- Standalone units
- 5 shelves
- 14-ga. posts and shelves

Extra heavy-duty units are generally sturdier and can hold heavier items than shelving units with lower duty levels. Used for storing dies, fixtures, jigs, and other heavy equipment. The decking installs over the shelving units' beams to distribute the weight of items placed on the decking across the beams.

			ANGLE BEAM				CHANNEL BEAM			
Overall Height	Overall Width	Overall Depth	Item No.	Load Capacity per Shelf *	Color	Brand	Item No.	Load Capacity per Shelf *	Color	Brand
72 in	36 in	18 in	—	—	—	—	**8CJK3**	4,000 lb	Medium Gray	Tennsco
		24 in	—	—	—	—	**9MEZ3**	4,000 lb	Medium Gray	Tennsco
	48 in	18 in	—	—	—	—	**8PHA5**	4,000 lb	Medium Gray	Tennsco
		24 in	—	—	—	—	**9XA34**	4,000 lb	Medium Gray	Tennsco
	60 in	24 in	—	—	—	—	**9NUN3**	3,250 lb	Medium Gray	Tennsco
	72 in	24 in	—	—	—	—	**9HR23**	2,750 lb	Medium Gray	Tennsco
		36 in	—	—	—	—	**39FM73**	2,750 lb	Medium Gray	Tennsco
	96 in	24 in	—	—	—	—	**39FM75**	2,600 lb	Gray	Tennsco
		36 in	—	—	—	—	**39FM76**	2,600 lb	Gray	Tennsco
84 in	36 in	18 in	**30LV72**	2,300 lb	Black	Hallowell	**9NUN4**	4,000 lb	Medium Gray	Tennsco
		24 in	—	—	—	—	**9CV93**	4,000 lb	Medium Gray	Tennsco
	48 in	18 in	**30LV73**	2,200 lb	Black	Hallowell	**8CHM7**	4,000 lb	Medium Gray	Tennsco
		24 in	**30LV74**	2,000 lb	Black	Hallowell	**9DY21**	4,000 lb	Medium Gray	Tennsco
	60 in	24 in	**30LV75**	2,000 lb	Black	Hallowell	**8CHM8**	3,250 lb	Medium Gray	Tennsco
	72 in	24 in	**30LV76**	1,900 lb	Black	Hallowell	**8ZA32**	2,750 lb	Medium Gray	Tennsco
		36 in	**30LV77**	1,900 lb	Black	Hallowell	**9K587**	2,750 lb	Medium Gray	Tennsco
	96 in	24 in	**30LV78**	1,900 lb	Black	Hallowell	**9PRP2**	2,600 lb	Medium Gray	Tennsco
		36 in	**30LV79**	1,900 lb	Black	Hallowell	**8Y799**	2,600 lb	Medium Gray	Tennsco
96 in	36 in	18 in	**30LV80**	2,300 lb	Black	Hallowell	—	—	—	—
		24 in	—	—	—	—	**8X599**	4,000 lb	Medium Gray	Tennsco
	48 in	18 in	**30LV81**	2,200 lb	Black	Hallowell	**9PRP3**	4,000 lb	Medium Gray	Tennsco
		24 in	**30LV82**	2,000 lb	Black	Hallowell	**39FM71**	4,000 lb	Medium Gray	Tennsco
	60 in	24 in	**30LV83**	2,000 lb	Black	Hallowell	**39FM72**	3,250 lb	Medium Gray	Tennsco
	72 in	24 in	**30LV84**	1,900 lb	Black	Hallowell	**8CJ74**	2,750 lb	Medium Gray	Tennsco
		36 in	**30LV85**	1,900 lb	Black	Hallowell	**39FM74**	2,750 lb	Medium Gray	Tennsco
	96 in	24 in	**30LV86**	1,900 lb	Black	Hallowell	**9EZK0**	2,600 lb	Medium Gray	Tennsco
		36 in	**30LV87**	1,900 lb	Black	Hallowell	**9NV28**	2,600 lb	Medium Gray	Tennsco

** Based on evenly distributed loads.*

Sandusky | tennsco Storage Made Easy

Split-Post Configurable Boltless Metal Shelving

Compact "Z" shaped beam design with recessed step protects particleboard deck from chipping, prevents splinters, and increases usable storage height and load capacity.

Particleboard Decking 1VG39

- Medium duty
- Shelves adjust in 1½" increments

Two-piece posts allow each unit to be assembled vertically to create a tall shelving unit or horizontally to create a short shelving unit that can double as a workbench. Compatible with shelving components from the same manufacturer.

Particleboard decking provides a smooth, solid surface that prevents items from falling through the shelving

Steel decking features a perforated surface that allows air to circulate through it for ventilation.

No. of Shelves	Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf	Post Gauge	Color	Brand	Item No.
Particleboard Decking								
4-Shelf Units	60 in	36 in	18 in	800 lb	18 ga	Silver Vein	Sandusky	**489K22**
5-Shelf Units	72 in			800 lb	18 ga	Silver Vein	Sandusky	**489K23**
				1200 lb	14 ga	Gray	—	**1VG39**
			24 in	1800 lb	14 ga	Gray	—	**1VG43**
		48 in	18 in	800 lb	18 ga	Silver Vein	Sandusky	**489K24**
				1000 lb	14 ga	Gray	—	**1VG40**
			24 in	800 lb	18 ga	Silver Vein	Sandusky	**489K25**
				1400 lb	14 ga	Gray	—	**1VG44**
		60 in	18 in	1000 lb	14 ga	Gray	—	**1VG41**
			24 in	700 lb	14 ga	Gray	—	**1VG45**
			36 in	600 lb	14 ga	Gray	—	**1VG47**
		72 in	18 in	1000 lb	14 ga	Gray	—	**1VG42**
			24 in	700 lb	14 ga	Gray	—	**1VG46**
			36 in	600 lb	14 ga	Gray	—	**1VG48**
	84 in	48 in	24 in	850 lb	14 ga	Sand	Tennsco	**39FM70**
Steel Decking								
5-Shelf Units	60 in	30 in	12 in	500 lb	18 ga	Red	Sandusky	**489K18**
	72 in	48 in	18 in	800 lb	16 ga	Red	Sandusky	**39EY55**
			24 in	500 lb	18 ga	Red	Sandusky	**489K19**
		60 in	18 in	500 lb	18 ga	Red	Sandusky	**489K20**
			24 in	500 lb	18 ga	Red	Sandusky	**489K21**

Find additional Storage Rack Decking information on page 1228.

tennsco Storage Made Easy

Archival Boltless Metal Shelving

Units have multiple shelf levels that are sized to hold archive boxes for organized storage of files, documents, and similar items in offices, universities, and other institutions that handle large volumes of paperwork. No bolts or special tools are required to assemble, making them easier to put together than standard metal shelving units. Compatible with shelving components from the same manufacturer.

Medium-duty shelving units are used for general storage of archive boxes. Particleboard decking provides a smooth, solid surface that prevents items from falling through the shelving and will not mar or snag boxes. The decking installs over the shelving units' beams to distribute the weight of items placed on the decking across the beams.

Heavy-duty box-rail shelving units are sturdier and can hold heavier items than medium-duty shelving units. Instead of decking, they have box rails that install front-to-back between the beams on each of their shelf levels. The rails create channels that support archive boxes on the shelf levels and allow the boxes to slide in and out of the shelving.

Medium-Duty Particleboard Decking 44R186

Heavy-Duty Box-Rail 39FM87

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf	STARTER Item No.	STARTER Shelving Gauge	STARTER Post Gauge	ADD-ON Item No.	ADD-ON Shelving Gauge	ADD-ON Post Gauge
4-Shelf Units									
Medium-Duty Particleboard Decking									
84 in	42 in	15 in	800 lb	**44R192**	14	14 ga	**44R193**	14	16 ga
		30 in	900 lb	**44R194**	14	14 ga	**44R195**	14	16 ga
	69 in		650 lb	**44R196**	11	14 ga	**44R197**	11	16 ga
Heavy-Duty Box-Rail									
84 in	42 in	18 in	2,250 lb	**39FM88**	14	14 ga	—	—	—
		30 in	2,250 lb	**39FM90**	14	14 ga	—	—	—
3-Shelf Units									
Medium-Duty Particleboard Decking									
60 in	42 in	15 in	800 lb	**44R184**	14	14 ga	**44R185**	14	16 ga
		30 in	900 lb	**44R186**	14	14 ga	**44R187**	14	16 ga
	69 in	15 in	500 lb	**44R188**	11	14 ga	**44R189**	11	16 ga
		30 in	650 lb	**44R190**	11	14 ga	**44R191**	11	16 ga
Heavy-Duty Box-Rail									
60 in	42 in	15 in	2,250 lb	**39FM87**	14	14 ga	—	—	—
		30 in	2,250 lb	**39FM89**	14	14 ga	—	—	—

tennsco Storage Made Easy

Heavy-Duty Metal Bulk Racks

- 3 shelf levels
- Gray electro-coated finish
- Adjustable in 2" increments

Allow clear and convenient access from the front or rear. Include welded footplates for floor mounting. Upright assemblies are prewelded for strength and will support up to 17,000 lb. based on 24" shelf centers. Racks include front-to-back supports: 2 per shelf level on 48" and 60"W beams, 3 per level on 72"W beams, and 4 per level on 96"W beams. Available with or without decking. Easy to assemble. No tools required.

Starter w/Ribbed Decking 7B505 (Shown with supplies, not included.)

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	FLAT Decking Starter Item No.	FLAT Decking Add-On Item No.	RIBBED Decking Starter Item No.	RIBBED Decking Add-On Item No.	WIRE Decking Starter Item No.	WIRE Decking Add-On Item No.
120 in	48 in	24 in	4,150 lb	**7B457**	**7B955**	**7B529**	**7B971**	**7B493**	**7B181**
		36 in	4,150 lb	**7B458**	**7B956**	**7B530**	**7B972**	**7B494**	**7B183**
		48 in	4,150 lb	**7B459**	**7B957**	**7B531**	**7B973**	**7B495**	**7B198**
	60 in	24 in	3,800 lb	**7B460**	**7B958**	**7B532**	**7B974**	**7B496**	**7B199**
		36 in	3,800 lb	**7B461**	**7B959**	**7B533**	**7B975**	**7B497**	**7B200**
		48 in	3,800 lb	**7B462**	**7B960**	**7B534**	**7B976**	**7B498**	**7B201**
	72 in	24 in	2,750 lb	**7B463**	**7B961**	**7B535**	**7B977**	**7B499**	**7B202**
		36 in	2,750 lb	**7B464**	**7B962**	**7B536**	**7B978**	**7B500**	**7B213**
		48 in	2,750 lb	**7B465**	**7B963**	**7B537**	**7B979**	**7B501**	**7B215**
	96 in	24 in	2,150 lb	**7B466**	**7B964**	**7B538**	**7B980**	**7B502**	**7B217**
		36 in	2,150 lb	**7B467**	**7B965**	**7B539**	**7B981**	**7B503**	**7B220**
		48 in	2,150 lb	**8DWZ1**	**9E247**	**7B540**	**7B982**	**7B504**	**7B222**
96 in	48 in	24 in	4,150 lb	**7D057**	**7B943**	**7B517**	**7B289**	**7B481**	**7B347**
		36 in	4,150 lb	**7D058**	**7B944**	**7B518**	**7B296**	**7B482**	**7B348**
		48 in	4,150 lb	**7D059**	**7B945**	**7B519**	**7B308**	**7B483**	**7B349**
	60 in	24 in	3,800 lb	**7D060**	**7B946**	**7B520**	**7B309**	**7B484**	**7B350**
		36 in	3,800 lb	**7B449**	**7B947**	**7B521**	**7B310**	**7B485**	**7B142**
		48 in	3,800 lb	**7B450**	**7B948**	**7B522**	**7B311**	**7B486**	**7B145**
	72 in	24 in	2,750 lb	**7B451**	**7B949**	**7B523**	**7B312**	**7B487**	**7B147**
		36 in	2,750 lb	**7B452**	**7B950**	**7B524**	**7B313**	**7B488**	**7B149**
		48 in	2,750 lb	**7B453**	**7B951**	**7B525**	**7B321**	**7B489**	**7B152**
	96 in	24 in	2,150 lb	**7B454**	**7B952**	**7B526**	**7B322**	**7B490**	**7B177**
		36 in	2,150 lb	**7B455**	**7B953**	**7B527**	**7B969**	**7B491**	**7B178**
		48 in	2,150 lb	**9RZ96**	**8DWZ5**	**7B528**	**7B970**	**7B492**	**7B180**
72 in	48 in	24 in	4,150 lb	**7D045**	**7B931**	**7B505**	**7B223**	**7B469**	**7B967**
		36 in	4,150 lb	**7D046**	**7B932**	**7B506**	**7B236**	**7B470**	**7B968**
		48 in	4,150 lb	**7D047**	**7B933**	**7B507**	**7B260**	**7B471**	**7B323**
	60 in	24 in	3,800 lb	**7D048**	**7B934**	**7B508**	**7B261**	**7B472**	**7B324**
		36 in	3,800 lb	**7D049**	**7B935**	**7B509**	**7B262**	**7B473**	**7B325**
		48 in	3,800 lb	**7D050**	**7B936**	**7B510**	**7B263**	**7B474**	**7B333**
	72 in	24 in	2,750 lb	**7D051**	**7B937**	**7B511**	**7B270**	**7B475**	**7B334**
		36 in	2,750 lb	**7D052**	**7B938**	**7B512**	**7B284**	**7B476**	**7B335**
		48 in	2,750 lb	**7D053**	**7B939**	**7B513**	**7B285**	**7B477**	**7B336**
	96 in	24 in	2,150 lb	**7D054**	**7B940**	**7B514**	**7B286**	**7B478**	**7B337**
		36 in	2,150 lb	**7D055**	**7B941**	**7B515**	**7B287**	**7B479**	**7B345**
		48 in	2,150 lb	**9JC32**	**9CP71**	**7B516**	**7B288**	**7B480**	**7B346**

** Based on evenly distributed loads.*

Add-On
- 1 upright frame
- 3 shelf levels

Light-Duty Adjustable Closed Shelf 39FT25

Heavy-Duty Adjustable Closed Shelf (Accessories not included.) 3ZYF5

Medium-Duty Fixed Open Shelf 8V343

Heavy-Duty Fixed Open Shelf 20VA80

Welded Metal Shelving

All or most parts of these shelving units are welded together, so they require minimal assembly and provide more stability than comparable standard metal shelving units or boltless metal shelving units. They stand on a floor and provide multiple shelf levels for organizing and staging supplies and inventory.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf*	Color	Brand	CLOSED Item No.
Light-Duty Adjustable Shelving						
6 Shelves						
72 in	36 in	18 in	150 lb	Black	Tennsco	**39FT25**
		18 in	150 lb	Gray	Tennsco	**39FT26**
		18 in	150 lb	Medium Gray	Tennsco	**39FT27**
		18 in	150 lb	Putty	Tennsco	**39FT28**
		18 in	150 lb	Sand	Tennsco	**39FT29**
		24 in	200 lb	Black	Tennsco	**39FT71**
		24 in	200 lb	Gray	Tennsco	**39FT72**
		24 in	200 lb	Medium Gray	Tennsco	**39FT73**
		24 in	200 lb	Putty	Tennsco	**39FT74**
		24 in	200 lb	Sand	Tennsco	**39FT75**
78 in	48 in	18 in	400 lb	Black	Tennsco	**39FR61**
		18 in	400 lb	Gray	Tennsco	**39FT33**
		18 in	400 lb	Medium Gray	Tennsco	**39FT34**
		18 in	400 lb	Putty	Tennsco	**39FT35**
		18 in	400 lb	Sand	Tennsco	**39FT36**
		24 in	400 lb	Black	Tennsco	**39FT47**
		24 in	400 lb	Gray	Tennsco	**39FT53**
		24 in	400 lb	Medium Gray	Tennsco	**39FT54**
		24 in	400 lb	Putty	Tennsco	**39FT55**
		24 in	400 lb	Sand	Tennsco	**39FT56**
4 Shelves						
42 in	36 in	18 in	150 lb	Sand	Tennsco	**39FT04**
		18 in	150 lb	Black	Tennsco	**39FT62**
		18 in	150 lb	Gray	Tennsco	**39FT63**
		18 in	150 lb	Medium Gray	Tennsco	**39FT64**
		18 in	150 lb	Putty	Tennsco	**39FT65**
		24 in	200 lb	Black	Tennsco	**39FT05**
		24 in	200 lb	Gray	Tennsco	**39FT06**
		24 in	200 lb	Medium Gray	Tennsco	**39FT07**
		24 in	200 lb	Putty	Tennsco	**39FT08**
		24 in	200 lb	Sand	Tennsco	**39FT09**
	48 in	18 in	400 lb	Black	Tennsco	**39FR56**
		18 in	400 lb	Gray	Tennsco	**39FR57**
		18 in	400 lb	Putty	Tennsco	**39FR59**
		18 in	400 lb	Sand	Tennsco	**39FR60**
		24 in	400 lb	Black	Tennsco	**39FT42**
		24 in	400 lb	Gray	Tennsco	**39FT43**
		24 in	400 lb	Medium Gray	Tennsco	**39FT44**
		24 in	400 lb	Putty	Tennsco	**39FT45**
		24 in	400 lb	Sand	Tennsco	**39FT46**
1 Shelves						
42 in	48 in	18 in	400 lb	Medium Gray	Tennsco	**39FR58**

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf*	Color	Brand	CLOSED Item No.
Heavy-Duty Adjustable Shelving						
4 Shelves						
72 in	36 in	12 in	1,900 lb	Gray	Strong Hold	**3ZYD3**
		18 in	1,900 lb	Gray	Strong Hold	**3ZYD5**
		24 in	1,900 lb	Gray	Strong Hold	**3ZYD7**
	42 in	18 in	1,900 lb	Gray	Strong Hold	**16A410**
	48 in	18 in	1,200 lb	Gray	Strong Hold	**3ZYE4**
		24 in	1,200 lb	Gray	Strong Hold	**3ZYE6**
	54 in	18 in	1,900 lb	Gray	Strong Hold	**16A411**
	60 in	24 in	1,650 lb	Gray	Strong Hold	**3ZYF1**
	72 in	24 in	1,525 lb	Gray	Strong Hold	**3ZYF5**
3 Shelves						
60 in	36 in	18 in	1,900 lb	Gray	Strong Hold	**3ZYC8**
		24 in	1,900 lb	Gray	Strong Hold	**3ZYD1**
	48 in	18 in	1,200 lb	Gray	Strong Hold	**3ZYD9**
		24 in	1,200 lb	Gray	Strong Hold	**3ZYE2**
	60 in	24 in	1,650 lb	Gray	Strong Hold	**3ZYE8**
	72 in	24 in	1,525 lb	Gray	Strong Hold	**3ZYF3**

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf*	Color	Brand	OPEN Item No.
Medium-Duty Fixed Shelving						
5 Shelves						
66 in	48 in	18 in	600 lb	Gray	Jamco	**8EAM2**
		24 in	600 lb	Gray	Jamco	**8YA18**
4 Shelves						
54 in	48 in	18 in	750 lb	Gray	Jamco	**8V343**
		24 in	750 lb	Gray	Jamco	**8ED75**
3 Shelves						
42 in	48 in	18 in	1,000 lb	Gray	Jamco	**8W155**
		24 in	1,000 lb	Gray	Jamco	**8EA37**
Heavy-Duty Fixed Shelving						
5 Shelves						
72 in	30 in	18 in	2,000 lb	Gray	Little Giant	**20VA77**
	36 in	24 in	2,000 lb	Gray	Little Giant	**20VA78**
	48 in	24 in	2,000 lb	Gray	Little Giant	**20VA79**
		30 in	2,000 lb	Gray	Little Giant	**20VA81**
	60 in	24 in	2,000 lb	Gray	Little Giant	**20VA80**
		30 in	2,000 lb	Gray	Little Giant	**20VA82**
		36 in	2,000 lb	Gray	Little Giant	**20VA84**
	72 in	30 in	2,000 lb	Gray	Little Giant	**20VA83**
		36 in	2,000 lb	Gray	Little Giant	**20VA85**
4 Shelves						
72 in	30 in	18 in	2,000 lb	Gray	Little Giant	**20VA68**
	36 in	24 in	2,000 lb	Gray	Little Giant	**20VA69**
	48 in	24 in	2,000 lb	Gray	Little Giant	**20VA70**
		30 in	2,000 lb	Gray	Little Giant	**20VA72**
	60 in	24 in	2,000 lb	Gray	Little Giant	**20VA71**
		30 in	2,000 lb	Gray	Little Giant	**20VA73**
		36 in	2,000 lb	Gray	Little Giant	**20VA75**
	72 in	30 in	2,000 lb	Gray	Little Giant	**20VA74**
		36 in	2,000 lb	Gray	Little Giant	**20VA76**

** Based on evenly distributed loads.*

METRO
We put space to work.

Stationary Wire Shelving

Units assemble without tools and use two-piece split sleeves to anchor the shelves in place on their shelving posts. The shelves can be removed and the sleeves can be repositioned to raise or lower the shelves on the posts.

For Dry Use - A smooth, chrome finish prevents dust and debris from sticking. They may rust if exposed to moisture, so they are for use in dry storage areas such as stock rooms, garages, and retail stores.

For Wet & Dry Use - Black epoxy finish helps protect units from rust when used in damp or humid environments such as food service areas.

					FOR DRY USE			FOR WET & DRY USE		
Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Brand	Starter Item No.	Add-On Item No.	Whole Unit Load Capacity	Starter Item No.	Add-On Item No.	Whole Unit Load Capacity
6 Shelves										
63 in	36 in	18 in	300 lb	—	32V397	—	1,500 lb	—	—	—
	60 in	18 in	300 lb	—	32V407	—	1,500 lb	32V408	—	1,500 lb
74 in	36 in	18 in	300 lb	—	32V416	—	1,500 lb	32V417	—	1,500 lb
	48 in	18 in	300 lb	—	5GPK0	—	1,500 lb	5GPL2	—	1,500 lb
	60 in	18 in	300 lb	—	32V425	—	1,500 lb	32V426	—	1,500 lb
5 Shelves										
63 in	36 in	18 in	300 lb	—	32V394	—	1,200 lb	32V395	—	1,200 lb
	48 in	18 in	300 lb	—	5GPK4	—	1,200 lb	5GPL6	—	1,200 lb
	60 in	18 in	300 lb	—	32V404	—	1,200 lb	32V405	—	1,200 lb
74 in	36 in	18 in	300 lb	—	32V413	—	1,200 lb	32V414	—	1,200 lb
	48 in	18 in	300 lb	—	5GPK1	—	1,200 lb	5GPL3	—	1,200 lb
	60 in	18 in	300 lb	—	32V422	—	1,200 lb	32V423	—	1,200 lb
4 Shelves										
54 in	36 in	18 in	600 lb	—	45VX99	45VY28	2,000 lb	—	—	—
		24 in	600 lb	—	45VX89	45VY35	2,000 lb	—	—	—
	48 in	18 in	600 lb	—	45VX54	—	2,000 lb	—	—	—
		24 in	500 lb	Metro	45RL12	45RL11	2,000 lb	—	—	—
		24 in	600 lb	—	45VY19	45VX62	2,000 lb	—	—	—
63 in	24 in	18 in	600 lb	—	1ZTJ3	2HGJ3	2,000 lb	—	—	—
		18 in	800 lb	—	—	—	—	2KPK8	—	3,200 lb
		24 in	600 lb	—	1PGF2	2HGJ8	2,000 lb	—	—	—
		24 in	800 lb	—	—	—	—	2KPL4	—	3,200 lb
	36 in	18 in	300 lb	—	32V391	—	1,000 lb	32V392	—	1,000 lb
		18 in	600 lb	—	1ZTJ4	2HGJ4	2,000 lb	—	—	—
		18 in	800 lb	—	—	—	—	2KPK9	—	3,200 lb
		24 in	600 lb	—	1PGF3	2HGJ9	2,000 lb	—	—	—
	42 in	18 in	600 lb	—	45VX80	—	2,000 lb	—	—	—
	48 in	18 in	300 lb	—	5GPK5	—	1,000 lb	5GPL7	—	1,000 lb
		18 in	500 lb	Metro	45RL04	—	2,000 lb	—	—	—
		18 in	600 lb	—	1ZTJ5	2HGJ5	2,000 lb	—	—	—
		18 in	800 lb	—	—	—	—	2KPL1	2KPP3	3,200 lb
		24 in	500 lb	Metro	45RK95	9TV09	2,000 lb	—	—	—
		24 in	600 lb	—	1PGF5	2HGK1	2,000 lb	—	—	—
		24 in	800 lb	—	—	—	—	2KPL6	—	3,200 lb
		36 in	600 lb	—	2KNZ2	2KPA9	2,000 lb	—	—	—
	60 in	18 in	300 lb	—	32V401	—	1,200 lb	32V402	—	1,000 lb
		18 in	600 lb	—	1PGE9	2HGJ6	2,000 lb	2KPL2	—	2,400 lb
		24 in	500 lb	Metro	8AAZ8	9ME22	2,000 lb	—	—	—
		24 in	500 lb	Metro	45RL02	—	2,000 lb	—	—	—
		24 in	600 lb	—	1PGF6	2HGK2	2,000 lb	2KPL7	—	2,400 lb
		36 in	600 lb	—	2KNZ3	—	2,000 lb	—	—	—
	72 in	18 in	600 lb	—	1PGF1	2HGJ7	2,000 lb	2KPL3	—	2,400 lb
		24 in	500 lb	Metro	45RK91	9RR89	2,000 lb	—	—	—
		24 in	600 lb	—	1PGF7	2HGK3	2,000 lb	2KPL8	—	2,400 lb
		36 in	600 lb	—	2KNZ4	2KPC2	2,000 lb	—	—	—
74 in	24 in	18 in	600 lb	—	1PGF8	2HGK4	2,000 lb	—	—	—
		18 in	800 lb	—	—	—	—	2KPL9	—	3,200 lb
		24 in	600 lb	—	1PGG5	2HGK9	2,000 lb	—	—	—
	36 in	18 in	300 lb	—	32V410	—	1,000 lb	32V411	—	1,000 lb
		18 in	500 lb	Metro	45RL03	—	2,000 lb	—	—	—
		18 in	600 lb	—	1PGF9	2HGK5	2,000 lb	—	—	—
		24 in	500 lb	Metro	45RK92	—	2,000 lb	—	—	—
		24 in	600 lb	—	1ANZ8	2HGL1	2,000 lb	—	—	—
		36 in	600 lb	—	2KNZ5	—	2,000 lb	—	—	—
	42 in	18 in	600 lb	—	45VX74	—	2,000 lb	—	—	—
	48 in	18 in	300 lb	—	5GPK2	—	1,000 lb	5GPL4	—	1,000 lb
		18 in	500 lb	Metro	45RK94	—	2,000 lb	—	—	—
		18 in	600 lb	—	1PGG2	—	2,400 lb	—	—	—
		18 in	800 lb	—	—	—	—	2KPN2	—	3,200 lb
		24 in	500 lb	Metro	45RK88	45RL10	2,000 lb	—	—	—
		24 in	600 lb	—	1ANZ9	2HGL2	2,000 lb	—	—	—
		24 in	800 lb	—	—	—	—	2KPN7	—	3,200 lb
		36 in	600 lb	—	2KNZ6	2KPC4	2,000 lb	—	—	—
	60 in	18 in	300 lb	—	32V419	—	1,000 lb	32V420	—	1,000 lb
		18 in	500 lb	Metro	45RL06	—	2,000 lb	—	—	—
		18 in	500 lb	Metro	38YV70	45RL09	2,000 lb	—	—	—
		18 in	600 lb	—	1PGG3	2HGK7	2,000 lb	2KPN3	—	2,400 lb
		24 in	500 lb	Metro	45RK90	—	2,000 lb	—	—	—
		24 in	600 lb	—	1APA1	2HGL3	2,000 lb	2KPN8	—	2,400 lb
		36 in	600 lb	—	2KNZ7	2KPC5	2,000 lb	—	—	—
	72 in	18 in	500 lb	Metro	45RK99	—	2,000 lb	—	—	—
		18 in	600 lb	—	1PGG4	2HGK8	2,000 lb	2KPN4	—	2,400 lb
		24 in	500 lb	Metro	45RK87	45RL07	2,000 lb	—	—	—
		24 in	600 lb	—	1APA2	2HGL4	2,000 lb	2KPN9	—	2,400 lb
		36 in	600 lb	—	2KNZ8	—	2,000 lb	—	—	—
86 in	36 in	18 in	600 lb	—	45VY45	—	2,000 lb	—	—	—
		24 in	600 lb	—	45VX52	—	2,000 lb	—	—	—
	48 in	18 in	600 lb	—	45VX71	—	2,000 lb	—	—	—
		24 in	500 lb	Metro	45RL05	—	2,000 lb	—	—	—
		24 in	600 lb	—	45VY15	—	2,000 lb	—	—	—
	60 in	24 in	500 lb	Metro	45RL08	—	2,000 lb	—	—	—
		24 in	600 lb	—	45VY43	—	2,000 lb	—	—	—
	72 in	18 in	600 lb	—	45VX98	—	2,000 lb	—	—	—
		24 in	500 lb	Metro	45RK98	—	2,000 lb	—	—	—
		24 in	600 lb	—	45VY01	—	2,000 lb	—	—	—

** Based on evenly distributed loads.*

**For Dry Use - 4 Shelf
45RL12**

**Wet & Dry Use - 5 Shelf
32V414**

For Dry Use - 2 Shelf
39EY76

For Wet & Dry Use - 4 Shelf
489K46

Sandusky

Light-Duty Wire Shelving

Assemble without tools and use two-piece split sleeves to anchor their shelves in place on posts. The shelves can be removed and the sleeves can be repositioned to raise or lower the shelves on the posts.

For Dry Use - Feature a smooth, chrome finish that prevents dust and debris from sticking. Suitable for storing lightweight items. They may rust if exposed to moisture, so they are for use in dry storage areas such as office supply rooms and retail stores.

For Wet & Dry Use - A black epoxy finish helps protect from rust when used in damp or humid environments such as food service areas.

No. of Shelves	Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Whole Unit Load Capacity	Brand	STARTER Item No.
Light-Duty For Dry Use							
5	47 in	18 in	18 in	100 lb	500 lb	Sandusky	**489K48**
4	47 in	18 in	18 in	100 lb	400 lb	Sandusky	**489K47**
3	18 in	18 in	10 in	85 lb	255 lb	Sandusky	**489K49**
2	12 in	12 in	12 in	100 lb	200 lb	—	**39EY76**
Light-Duty For Wet & Dry Use							
4	32 in	20 in	12 in	85 lb	340 lb	Sandusky	**489K46**

** Based on evenly distributed loads.*

Green
60TV13

Gray
60TV69

QUANTUM™ STORAGE SYSTEMS

Antimicrobial Wire Shelving

- For wet and dry use
- 4 shelves

Epoxy finish contains an antimicrobial additive that prevents the growth of damaging, odor-causing mold, mildew, and bacteria and helps keep the units clean. Epoxy finish also protects from rust when used in damp or humid environments such as food service areas and coolers. Units assemble without tools and use two-piece split sleeves to anchor their shelves in place on their shelving posts. The shelves can be removed and the sleeves can be repositioned to raise or lower the shelves on the posts.

					GREEN		GRAY	
Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Whole Unit Load Capacity	Starter Item No.	Add-On Item No.	Starter Item No.	Add-On Item No.
74 in	24 in	18 in	800 lb	3,200 lb	**60TV27**	**60TV55**	**60TV83**	**60TW12**
		24 in	800 lb	3,200 lb	**60TV32**	**60TV60**	**60TV88**	**60TW17**
	36 in	18 in	800 lb	3,200 lb	**60TV28**	**60TV56**	**60TV84**	**60TW13**
		24 in	800 lb	3,200 lb	**60TV33**	**60TV61**	**60TV89**	**60TW18**
		36 in	800 lb	3,200 lb	**60TV37**	**60TV65**	**60TV93**	**60TW22**
	48 in	18 in	800 lb	3,200 lb	**60TV29**	**60TV57**	**60TV85**	**60TW14**
		24 in	800 lb	3,200 lb	**60TV34**	**60TV62**	**60TV90**	**60TW19**
		36 in	800 lb	3,200 lb	**60TV38**	**60TV66**	**60TV94**	**60TW23**
	60 in	18 in	600 lb	2,400 lb	**60TV30**	**60TV58**	**60TV86**	**60TW15**
		24 in	600 lb	2,400 lb	**60TV35**	**60TV63**	**60TV91**	**60TW20**
		36 in	600 lb	2,400 lb	**60TV39**	**60TV67**	**60TV95**	**60TW24**
	72 in	18 in	600 lb	2,400 lb	**60TV31**	**60TV59**	**60TV87**	**60TW16**
		24 in	600 lb	2,400 lb	**60TV36**	**60TV64**	**60TV92**	**60TW21**
		36 in	600 lb	2,400 lb	**60TV40**	**60TV68**	**60TV96**	**60TW25**
63 in	24 in	18 in	800 lb	3,200 lb	**60TV13**	**60TV41**	**60TV69**	**60TV97**
		24 in	800 lb	3,200 lb	**60TV18**	**60TV46**	**60TV74**	**60TW03**
	36 in	18 in	800 lb	3,200 lb	**60TV14**	**60TV42**	**60TV70**	**60TV98**
		24 in	800 lb	3,200 lb	**60TV19**	**60TV47**	**60TV75**	**60TW04**
		36 in	800 lb	3,200 lb	**60TV23**	**60TV51**	**60TV79**	**60TW08**
	48 in	18 in	800 lb	3,200 lb	**60TV15**	**60TV43**	**60TV71**	**60TV99**
		24 in	800 lb	3,200 lb	**60TV20**	**60TV48**	**60TV76**	**60TW05**
		36 in	800 lb	3,200 lb	**60TV24**	**60TV52**	**60TV80**	**60TW09**
	60 in	18 in	600 lb	2,400 lb	**60TV16**	**60TV44**	**60TV72**	**60TW01**
		24 in	600 lb	2,400 lb	**60TV21**	**60TV49**	**60TV77**	**60TW06**
		36 in	600 lb	2,400 lb	**60TV25**	**60TV53**	**60TV81**	**60TW10**
	72 in	18 in	600 lb	2,400 lb	**60TV17**	**60TV45**	**60TV73**	**60TW02**
		24 in	600 lb	2,400 lb	**60TV22**	**60TV50**	**60TV78**	**60TW07**
		36 in	600 lb	2,400 lb	**60TV26**	**60TV54**	**60TV82**	**60TW11**

** Based on evenly distributed loads.*

45TW03

METRO® We put space to work.

INSTOCK

Corrosion-Resistant Wire Shelving

- For harsh environments
- 4 shelves

Stainless steel units resist corrosion and rust when used in areas with frequent exposure to water or cleaning chemicals, such as kitchens and laboratories. Units assemble without tools and use two-piece split sleeves to anchor their shelves in place on their shelving posts. The shelves can be removed and the sleeves can be repositioned to raise or lower the shelves on the posts.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Whole Unit Load Capacity	Brand	STARTER Item No.	ADD-ON Item No.
74 in	36 in	18 in	500 lb	2,000 lb	Instock	**55NY09**	—
		18 in	800 lb	3,200 lb	—	**45TW09**	—
		24 in	500 lb	2,000 lb	Instock	**55NY13**	—
	48 in	18 in	500 lb	2,000 lb	Instock	**55NY10**	—
		18 in	800 lb	3,200 lb	—	**45TW10**	—
		24 in	500 lb	2,000 lb	Instock	**55NY14**	—
		24 in	500 lb	2,000 lb	Metro	**45RK96**	—
		24 in	800 lb	3,200 lb	—	**45TW11**	—
	60 in	18 in	500 lb	2,000 lb	Instock	**55NY11**	—
		24 in	500 lb	2,000 lb	Instock	**55NY15**	—
		24 in	600 lb	2,400 lb	—	**45TW12**	—
	72 in	18 in	500 lb	2,000 lb	Instock	**55NY12**	—
		24 in	500 lb	2,000 lb	Instock	**55NY16**	—
		24 in	500 lb	2,000 lb	Metro	**45RL01**	—
63 in	18 in	24 in	800 lb	3,200 lb	—	**45TW03**	—
	36 in	24 in	800 lb	3,200 lb	—	**45TW05**	—
	48 in	18 in	800 lb	3,200 lb	—	**45TW04**	—
		24 in	500 lb	2,000 lb	Metro	**8AAZ3**	**8AAZ7**
		24 in	800 lb	3,200 lb	—	**45TW06**	—
	60 in	24 in	500 lb	2,000 lb	Metro	**8AAZ9**	**9KYD8**
		24 in	600 lb	2,400 lb	—	**45TW07**	—
	72 in	24 in	500 lb	2,000 lb	Metro	**45RK93**	—
		24 in	500 lb	2,000 lb	Metro	**9GDH5**	**9L766**
		24 in	600 lb	2,400 lb	—	**45TW08**	—

** Based on evenly distributed loads.*

Quick-Adjust Wire Shelving

- For dry use
- 4 shelves
- Constructed of stainless steel

Levers on shelves can be released to allow the height of the shelves to be changed without removing the shelves from the posts. Smooth, chrome finish prevents dust and debris from sticking. They may rust if exposed to moisture, so they are for use in dry storage areas such as stock rooms, garages, and retail stores. Assemble without tools and use two-piece split sleeves to anchor their shelves in place on the shelving posts. The shelves can be raised off the sleeves and the sleeves can be repositioned to raise or lower the shelves on the posts.

Overall Height	Overall Width	Overall Depth	Load Capacity per Shelf *	Whole Unit Load Capacity	Item No.
63 in	18 in	24 in	500 lb	2,000 lb	**9T502**
	24 in	24 in	500 lb	2,000 lb	**8DC50**
	30 in	18 in	500 lb	2,000 lb	**8NGP4**
		24 in	500 lb	2,000 lb	**9NW94**
	36 in	18 in	500 lb	2,000 lb	**8TK84**
		24 in	500 lb	2,000 lb	**9DZP0**
	42 in	18 in	500 lb	2,000 lb	**8DAR4**
		24 in	500 lb	2,000 lb	**8XCG2**
	48 in	18 in	500 lb	2,000 lb	**8DAR5**
		24 in	500 lb	2,000 lb	**8W964**
	60 in	18 in	500 lb	2,000 lb	**8RPZ9**
		24 in	500 lb	2,000 lb	**9KJ79**
	72 in	18 in	500 lb	2,000 lb	**8DC49**
		24 in	500 lb	2,000 lb	**8DMZ0**

***** Based on evenly distributed load.*

Release lever to adjust shelf height

9T502

Top track kit with 2 end units and 3 mobile units

Top-Track Wire Shelving

- Chrome finish

Takes up less floor space than standard wire shelving with the same number of shelving units. Consists of two stationary end shelving units, one or more mobile middle shelving units, and a track that joins all the units at the top. The middle units can slide along the track to open up an aisle between any two units. The overhead track does not impede the movement of carts and other equipment through the aisle. Items can be seen through the wire shelving, air can pass through the shelving for ventilation, and water can flow through the shelving if fire sprinklers are activated. Debris falls through the shelving, which helps keep it clean. Top-track wire shelving provides multiple levels of storage for organizing and staging tools, supplies, and inventory. Efficiently utilizes vertical space in storage areas without having to mount shelving to a wall.

Track Kits—Include track sections for installing an overhead track in a top-track wire shelving system. The track attaches to support rails on each stationary end unit in the shelving system. It sits above the middle units, which can slide along the track to open up an aisle space between any two units in the shelving system. Aluminum construction.

Shelf Kits—Include 2 fixed and 3 adjustable wire shelves that install onto shelving posts in a top-track wire shelving system. ¼" lip height. NSF approved. Steel construction.

Post Kits—Include posts and hardware for building top-track shelving units and connecting them to the top track. Steel construction.

Number of Tracks	Track Length	Includes	Item No.
Track Kits for Top-Track Wire Shelving			
2	6 ft	Hardware	**2LHW8**
	7 ft	Hardware	**2LHW9**
4	8 ft	Hardware	**2LHX1**
	9 ft	(2) 4 ft Tracks, (2) 5 ft Tracks, Hardware	**2LHX2**
	10 ft	Hardware	**2LHX3**
	11 ft	(2) 5 ft Tracks, (2) 6 ft Tracks, Hardware	**2LHX4**
	12 ft	Hardware	**2LHX5**
	13 ft	(2) 6 ft Tracks, (2) 7 ft Tracks, Hardware	**2LHX6**
	14 ft	Hardware	**2LHX7**
6	15 ft	Hardware	**2LHX8**
8	16 ft	Hardware	**2LHX9**
	17 ft	(2) 3 ft Tracks, (2) 4 ft Tracks, (4) 5 ft Tracks, Hardware	**2LHY1**
6	18 ft	Hardware	**2LHY2**
	19 ft	(2) 7 ft Tracks, (4) 6 ft Tracks, Hardware	**2LHY3**
	20 ft	(2) 6 ft Tracks, (4) 7 ft Tracks, Hardware	**2LHY4**
	21 ft	Hardware	**2LHY5**

Item	Includes	Overall Height	Overall Width	POST KIT Item No.	48 in SHELF Item No.	60 in SHELF Item No.	72 in SHELF Item No.
Post & Hardware Kits for Top-Track Wire Shelving							
Stationary End Unit Kit	(8) Posts, Hardware	1 in	24 in	**2LHY6**	**2LHY7**	**2LHY8**	**2LHY9**
Mobile Unit Kit	(4) Posts, Casters/Caster Channels, Donut Bumpers, Roller Bearing Assemblies	18 in	18 in	**2LHZ2**	**2LHZ6**	**2LHZ7**	**2LHZ8**
		24 in	24 in	**2LHZ1**	**2LHZ3**	**2LHZ4**	**2LHZ5**

Wire Shelves for Wire Shelving

- Steel construction, except corrosion-resistant are constructed of 304 stainless steel

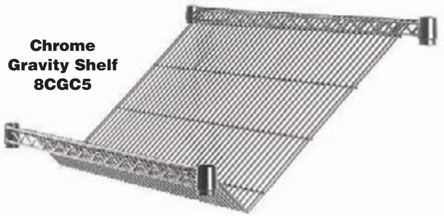
Use to replace the shelves on an existing wire shelving unit, expand an existing unit, or build a new unit.

Quick-Adjust shelves allow adjustment of shelf height without removing the shelf from the post.

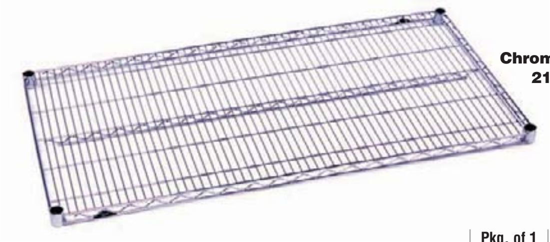
Antimicrobial shelves have an epoxy finish with an antimicrobial additive that prevents damaging, odor-causing mold, mildew, and bacteria from growing and helps keep them clean.

Gravity-Flow shelves are angled so the back of the shelf is higher than the front of the shelf.

Chrome Quick-Adjust 22A361



Chrome Gravity Shelf 8CGC5



Chrome-Plated 21Z783

Shelf Width	Shelf Depth	Load Capacity	Finish	▶CHOOSE: Color	Pkg. of 1 Item No.	Pkg. of 4 Item No.
For Dry, Harsh, Wet Environments						
Corrosion-Resistant Wire Shelves						
24 in	14 in	800 lb	—	Silver	21Z815	21Z197
30 in	14 in	800 lb	—	Silver	21Z816	21Z198
	21 in	800 lb	—	Silver	21Z831	21Z214
36 in	14 in	800 lb	—	Silver	21Z817	21Z199
	18 in	800 lb	—	Silver	21Z824	21Z207
	21 in	800 lb	—	Silver	21Z832	21Z215
	24 in	800 lb	—	Silver	21Z840	21Z223
42 in	21 in	800 lb	—	Silver	21Z833	21Z216
48 in	14 in	800 lb	—	Silver	21Z819	21Z202
	18 in	800 lb	—	Silver	21Z826	21Z209
	24 in	800 lb	—	Silver	21Z842	21Z225
54 in	18 in	600 lb	—	Silver	21Z827	21Z210
	24 in	600 lb	—	Silver	21Z843	21Z226
60 in	14 in	600 lb	—	Silver	21Z820	21Z203
	21 in	600 lb	—	Silver	21Z836	21Z219
	24 in	600 lb	—	Silver	21Z844	21Z227
72 in	24 in	600 lb	—	Silver	21Z845	21Z228
Quick-Adjust Corrosion-Resistant Wire Shelves						
24 in	18 in	800 lb	—	Silver	22A343	21Z726
36 in	24 in	800 lb	—	Silver	22A361	21Z744
48 in	18 in	800 lb	—	Silver	22A347	21Z730
	21 in	800 lb	—	Silver	22A355	21Z738
	24 in	800 lb	—	Silver	22A363	21Z746
60 in	24 in	600 lb	—	Silver	22A365	21Z748
72 in	24 in	600 lb	—	Silver	22A366	21Z749
For Dry, Wet Environments						
Antimicrobial Removable-Deck Wire Shelves						
36 in	18 in	800 lb	Epoxy Coated	Green	21Z973	21Z356
48 in	18 in	800 lb	Epoxy Coated	Green	21Z975	21Z358
	24 in	800 lb	Epoxy Coated	Green	21Z991	21Z374
54 in	18 in	600 lb	Epoxy Coated	Green	21Z976	21Z359
72 in	24 in	600 lb	Epoxy Coated	Green	21Z994	21Z377
Antimicrobial Wire Shelves						
36 in	18 in	800 lb	Epoxy Coated	Green	21Z949	21Z332
	21 in	800 lb	Epoxy Coated	Green	21Z957	21Z340
	24 in	800 lb	Epoxy Coated	Green	21Z965	21Z348
42 in	24 in	800 lb	Epoxy Coated	Green	21Z966	21Z349
48 in	14 in	800 lb	Epoxy Coated	Green	21Z944	21Z327
	18 in	800 lb	Epoxy Coated	Green	21Z951	21Z334
	21 in	800 lb	Epoxy Coated	Green	21Z959	21Z342
	24 in	800 lb	Epoxy Coated	Green	21Z967	21Z350
54 in	21 in	600 lb	Epoxy Coated	Green	21Z960	21Z343
60 in	21 in	600 lb	Epoxy Coated	Green	21Z961	21Z344
	24 in	600 lb	Epoxy Coated	Green	21Z969	21Z352
72 in	18 in	600 lb	Epoxy Coated	Green	21Z954	21Z337
	24 in	600 lb	Epoxy Coated	Green	21Z970	21Z353
For Dry Environments						
Color-Finish Wire Shelves						
24 in	14 in	800 lb	Epoxy Coated	Black, Smoked Glass, White	G6228	G6259
30 in	14 in	800 lb	Epoxy Coated	Black, Smoked Glass, White	G6229	G6260
36 in	14 in	800 lb	Epoxy Coated	Black, Smoked Glass, White	G6230	G6261
48 in	18 in	800 lb	Epoxy Coated	Black, Smoked Glass, White	G6239	G6270
	24 in	800 lb	Epoxy Coated	Black, Smoked Glass, White	G6255	G6286
72 in	24 in	600 lb	Epoxy Coated	Black, Smoked Glass, White	G6258	G6289
Gravity-Flow Wire Shelves						
24 in	18 in	200 lb	Chrome	Silver	8CGC5	—
36 in	18 in	200 lb	Chrome	Silver	8CGC6	—
48 in	18 in	200 lb	Chrome	Silver	9MFT1	—
Lipped Wire Shelves						
36 in	14 in	250 lb	Chromate	Silver	25W906	26C260
	14 in	250 lb	Chrome	Silver	25W897	26C252
	18 in	250 lb	Chrome	Silver	25W899	26C254
	18 in	250 lb	Chromate	Silver	25W908	26C262
	21 in	250 lb	Chromate	Silver	25W910	26C264
	24 in	250 lb	Chromate	Silver	25W912	26C266
	24 in	250 lb	Chrome	Silver	25W904	26C258
48 in	18 in	250 lb	Chrome	Silver	25W901	26C255
	18 in	250 lb	Chromate	Silver	25W909	26C263
	21 in	250 lb	Chrome	Silver	25W903	26C257
	24 in	250 lb	Chrome	Silver	25W905	26C259
	24 in	250 lb	Chromate	Silver	25W913	26C267

Shelf Width	Shelf Depth	Load Capacity	Finish	▶CHOOSE: Color	Pkg. of 1 Item No.	Pkg. of 4 Item No.
Quick-Adjust Wire Shelves						
48 in	24 in	800 lb	Chrome	Silver	22A332	21Z715
60 in	24 in	600 lb	Chrome	Silver	22A334	21Z717
72 in	24 in	600 lb	Chrome	Silver	22A335	21Z718
Wire Shelves						
24 in	14 in	800 lb	Chrome	Silver	21Z783	21Z166
	14 in	800 lb	Chromate	Silver	21Z846	21Z229
	18 in	800 lb	Chrome	Silver	21Z790	21Z173
	18 in	800 lb	Chromate	Silver	21Z853	21Z236
	21 in	800 lb	Chromate	Silver	21Z861	21Z244
	21 in	800 lb	Chrome	Silver	21Z798	21Z181
	24 in	800 lb	Chrome	Silver	21Z807	21Z189
	24 in	800 lb	Chromate	Silver	21Z869	21Z252
30 in	14 in	800 lb	Chrome	Silver	21Z784	21Z167
	14 in	800 lb	Chromate	Silver	21Z847	21Z230
	18 in	800 lb	Chromate	Silver	21Z854	21Z237
	18 in	800 lb	Chrome	Silver	21Z791	21Z174
	24 in	800 lb	Chromate	Silver	21Z870	21Z253
	24 in	800 lb	Chrome	Silver	21Z808	21Z190
36 in	14 in	800 lb	Chromate	Silver	21Z848	21Z231
	14 in	800 lb	Chrome	Silver	21Z785	21Z168
	18 in	800 lb	Chromate	Silver	21Z855	21Z238
	18 in	800 lb	Chrome	Silver	21Z792	21Z175
	21 in	800 lb	Chrome	Silver	21Z801	21Z183
	24 in	800 lb	Chromate	Silver	21Z871	21Z254
	24 in	800 lb	Chrome	Silver	3W572	21Z191
	30 in	800 lb	Chrome	Silver	2NKR1	—
42 in	14 in	800 lb	Chromate	Silver	21Z849	21Z232
	18 in	800 lb	Chrome	Silver	21Z793	21Z176
	18 in	800 lb	Chromate	Silver	21Z856	21Z239
	21 in	800 lb	Chromate	Silver	21Z864	21Z247
	21 in	800 lb	Chrome	Silver	21Z802	21Z184
	24 in	800 lb	Chromate	Silver	21Z872	21Z255
	24 in	800 lb	Chrome	Silver	21Z810	21Z192
48 in	14 in	800 lb	Chrome	Silver	21Z787	21Z170
	14 in	800 lb	Chromate	Silver	21Z850	21Z233
	18 in	800 lb	Chromate	Silver	21Z857	21Z240
	18 in	800 lb	Chrome	Silver	21Z794	21Z177
	24 in	800 lb	Chrome	Silver	3W573	—
	24 in	800 lb	Chrome	Silver	21Z811	21Z193
	24 in	800 lb	Chromate	Silver	21Z873	21Z256
	30 in	800 lb	Chrome	Silver	2NKR2	—
54 in	18 in	600 lb	Chrome	Silver	21Z795	21Z178
	18 in	600 lb	Chromate	Silver	21Z858	21Z241
	24 in	600 lb	Chrome	Silver	21Z812	21Z194
	24 in	600 lb	Chromate	Silver	21Z874	21Z257
60 in	14 in	600 lb	Chromate	Silver	21Z851	21Z234
	14 in	600 lb	Chrome	Silver	21Z788	21Z171
	18 in	600 lb	Chromate	Silver	21Z859	21Z242
	18 in	600 lb	Chrome	Silver	21Z796	21Z179
	21 in	600 lb	Chrome	Silver	21Z805	21Z187
	24 in	600 lb	Chrome	Silver	21Z813	21Z195
	24 in	600 lb	Chromate	Silver	21Z875	21Z258
	30 in	600 lb	Chrome	Silver	2NKR3	—
72 in	14 in	600 lb	Chrome	Silver	21Z789	21Z172
	14 in	600 lb	Chromate	Silver	21Z852	21Z235
	18 in	600 lb	Chrome	Silver	21Z797	21Z180
	18 in	600 lb	Chromate	Silver	21Z860	21Z243
	21 in	600 lb	Chromate	Silver	21Z868	21Z251
	21 in	600 lb	Chrome	Silver	21Z806	21Z188
	24 in	600 lb	Chromate	Silver	21Z876	21Z259
	24 in	600 lb	Chrome	Silver	21Z814	21Z196

Press-Fit Stationary Plastic Shelving

Plastic shelving units weigh less than metal shelving units and will not rust. The parts of the shelving units are pressed together to connect. No tools are required for assembly, although a rubber mallet can be used to ensure a tight connection. Compact shelving units have a narrow footprint and take up less floor space than other styles.

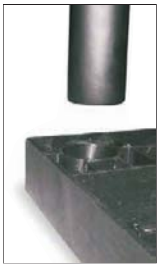
Containment Trays—Spill trays install on top of shelves on compatible high-durability stationary plastic shelving units to prevent spilled liquids or leaks from dripping through the shelves and contaminating items stored on the shelves below the trays.

					SOLID SHELVES			VENTILATED SHELVES		
No. of Shelves	Overall Height	Overall Width	Overall Depth	Brand	Shelf Cap.*	Whole Unit Load Capacity	Item No.	Shelf Cap.*	Whole Unit Load Capacity	Item No.
Compact - Gray										
5	48 in	13 in	15 in	Tough Guy	100 lb	500 lb	**3U596**	—	—	—
4	37 in	14 in	14 in	Tolco	50 lb	200 lb	**60NN30**	—	—	—
2	24 in	13 in	15 in	—	100 lb	300 lb	**3UVT2**	—	—	—
High-Durability - Black										
4	75 in	36 in	16 in	Structural Plastics	—	—	—	160 lb	340 lb	**4DV12**
			24 in	Structural Plastics	330 lb	1,320 lb	**14U091**	250 lb	1,000 lb	**4DV10**
			36 in	Structural Plastics	490 lb	1,965 lb	**14U092**	—	—	—
		48 in	24 in	Structural Plastics	425 lb	1,760 lb	**14U093**	340 lb	1,360 lb	**1PWY5**
		66 in	24 in	Structural Plastics	600 lb	2,420 lb	**14U094**	1,850 lb	680 lb	**4DU98**
			36 in	Structural Plastics	895 lb	3,600 lb	**14U095**	—	—	—
		96 in	16 in	Structural Plastics	—	—	—	450 lb	1,800 lb	**4DU96**
			24 in	Structural Plastics	880 lb	3,540 lb	**14U096**	675 lb	2,700 lb	**4DU94**
			36 in	Structural Plastics	1,320 lb	5,280 lb	**14U097**	—	—	—
3	51 in	36 in	16 in	Structural Plastics	—	—	—	160 lb	500 lb	**4DV13**
			24 in	Structural Plastics	330 lb	990 lb	**14U084**	250 lb	750 lb	**4DV11**
			36 in	Structural Plastics	490 lb	1,475 lb	**14U085**	—	—	—
		48 in	24 in	Structural Plastics	452 lb	1,330 lb	**14U086**	340 lb	1,020 lb	**1PWY3**
		66 in	24 in	Structural Plastics	600 lb	1,820 lb	**14U087**	1,390 lb	680 lb	**4DU99**
			36 in	Structural Plastics	895 lb	2,705 lb	**14U088**	—	—	—
		96 in	16 in	Structural Plastics	—	—	—	450 lb	1,350 lb	**4DU97**
			24 in	Structural Plastics	880 lb	2,650 lb	**14U089**	675 lb	2,025 lb	**4DU95**
			36 in	Structural Plastics	1,320 lb	3,960 lb	**14U090**	—	—	—
2	27 in	36 in	16 in	Structural Plastics	—	—	—	160 lb	675 lb	**4UX41**
			24 in	Structural Plastics	330 lb	660 lb	**14U077**	250 lb	500 lb	**4UX43**
			36 in	Structural Plastics	490 lb	985 lb	**14U078**	—	—	—
		48 in	24 in	Structural Plastics	425 lb	905 lb	**14U079**	340 lb	680 lb	**1PWY1**
		66 in	16 in	Structural Plastics	—	—	—	310 lb	615 lb	**8AZE2**
			24 in	Structural Plastics	600 lb	1,210 lb	**14U080**	925 lb	680 lb	**4UX47**
			36 in	Structural Plastics	895 lb	1,800 lb	**14U081**	—	—	—
		96 in	16 in	Structural Plastics	—	—	—	450 lb	900 lb	**4UX49**
			24 in	Structural Plastics	880 lb	1,770 lb	**14U082**	675 lb	1,350 lb	**4UX51**
			36 in	Structural Plastics	1,320 lb	2,640 lb	**14U083**	1,005 lb	1,005 lb	**9K601**
1	24 in	36 in	16 in	Structural Plastics	—	—	—	160 lb	160 lb	**9UAV4**
			24 in	Structural Plastics	—	—	—	250 lb	250 lb	**8AZE5**
		66 in	16 in	Structural Plastics	—	—	—	310 lb	310 lb	**9W964**
			24 in	Structural Plastics	—	—	—	460 lb	680 lb	**9DKL2**
		96 in	16 in	Structural Plastics	—	—	—	450 lb	450 lb	**8AZE4**
			24 in	Structural Plastics	—	—	—	675 lb	675 lb	**8RK65**
			36 in	Structural Plastics	—	—	—	1,005 lb	2,015 lb	**9NKU6**

Overall WxDxH	Color	Brand	Item No.
Containment Trays			
24 in x 30 in x 1 in	Black/Black	Structural Plastics	**14U098**
	Black/Blue		**14U101**
	Black/Red		**14U099**
	Black/White		**14U103**
	Black/Yellow		**14U102**

** Based on evenly distributed loads.*

Compact 3U596



Legs Connect Securely in Sockets

Leg Stackers Lock Components Together

High-Durability 4UX41

Quick-Adjust Antimicrobial Stationary Plastic Shelving

- 62" overall height
- 4 shelves adjust on 1" increments
- 800 lb. shelf capacity (based on evenly distributed loads)

Quick-adjust units have levers on their shelves that can be released to reposition the shelves without removing them from the posts or disturbing other shelves on the unit. The posts and shelf decks have been treated with an antimicrobial additive that prevents damaging, odor-causing mold, mildew, and bacteria from growing on them and helps keep them clean. Each shelf has a plastic deck that lifts out and can be placed in a dishwasher, making these shelves easier to clean and sanitize than standard plastic shelves. Assemble without tools and use corner wedges to anchor the shelves in place on the posts. Ideal for use in kitchens, medical facilities, and other areas where high standards of cleanliness must be maintained. NSF Listed.

Overall Width	Overall Depth	Item No.
36 in	18 in	**9F154**
	24 in	**9DLJ1**
48 in	18 in	**8CEW2**
60 in	18 in	**8CEW3**
72 in	18 in	**8ZAA2**
	24 in	**9PTY5**

Quick-to-Adjust Corner Release

2 Shelves

METRO
We put space to work.

Wall-Mount Wire Shelving Kits

- Shelves adjust in 1" increments
- Meet NSF standards

Keep floor areas clear and allow air to circulate to provide ventilation. Openings allow dirt and debris to fall through the shelving to help keep it clean. Suitable for use in dry environments such as garages, stock rooms, and retail stores.

Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Brand	Item No.
3 Shelves					
Direct Mount					
36 in	18 in	54 in	250 lb	—	2HGF1
48 in	14 in	54 in	250 lb	—	2HGF2
	18 in	54 in	250 lb	—	2HGF3
60 in	18 in	54 in	250 lb	—	2HGF5
Post Mount					
24 in	14 in	54 in	250 lb	—	2HGE7
	18 in	54 in	250 lb	—	2HGE8
36 in	14 in	54 in	250 lb	—	2HGE9
60 in	14 in	54 in	250 lb	—	2HGF4
2 Shelves					
Direct Mount					
36 in	18 in	34 in	125 lb	—	2HGE2
	18 in	34 in	125 lb	Metro	1BEX3
	24 in	34 in	125 lb	Metro	1BEX5
48 in	14 in	34 in	125 lb	—	2HGE3
60 in	14 in	34 in	125 lb	—	2HGE5
	18 in	34 in	125 lb	—	2HGE6
Post Mount					
24 in	14 in	34 in	125 lb	—	2HGD8
	18 in	34 in	125 lb	—	2HGD9
36 in	14 in	34 in	125 lb	—	2HGE1
48 in	18 in	34 in	125 lb	—	2HGE4
	18 in	34 in	125 lb	Metro	1BEX7
	24 in	34 in	125 lb	Metro	1BEX9
1 Shelf					
Direct Mount					
24 in	18 in	14 in	250 lb	—	2HGD1
36 in	18 in	14 in	250 lb	—	2HGD3
48 in	18 in	14 in	250 lb	Metro	1BEX6
60 in	14 in	14 in	250 lb	—	2HGD6
Post Mount					
24 in	14 in	14 in	250 lb	—	2HGC9
36 in	14 in	14 in	250 lb	—	2HGD2
	18 in	14 in	250 lb	Metro	1BEX2
	24 in	14 in	250 lb	Metro	1BEX4
48 in	14 in	14 in	250 lb	—	2HGD4
	18 in	14 in	250 lb	—	2HGD5
	24 in	14 in	250 lb	Metro	1BEX8
60 in	18 in	14 in	250 lb	—	2HGD7

14G289

ADVANCE TABCO NEWAGE INDUSTRIAL

Metal Wall-Mount Shelving

Solid surface will not let small items, dust, or debris fall through.

Steel provides good strength. **Stainless steel** resists rust and corrosion when used in damp or humid areas such as kitchens or freezers. Shelves are recommended for dry storage. **Aluminum** is lighter than steel or stainless steel shelving and resists rust and corrosion when used in damp or wet areas such as kitchens.

Overall Width	Overall Depth	Load Capacity per Shelf	Finish	Std.	Brand	Item No.
Steel						
Direct Mount						
24 in	12 in	100 lb	Zinc-Plated	NSF	—	2HFX9
	16 in	100 lb	Zinc-Plated	NSF	—	2HFY9
36 in	12 in	100 lb	Zinc-Plated	NSF	—	2HFY1
	16 in	100 lb	Zinc-Plated	NSF	—	2HFZ1
48 in	12 in	100 lb	Zinc-Plated	—	—	2HFY2
60 in	12 in	100 lb	Zinc-Plated	NSF	—	2HFY3
Stainless Steel						
Post Mount						
60 in	11 in	800 lb	Satin	NSF	Advance Tabco	3KNC1
Direct Mount						
24 in	12 in	100 lb	Satin	—	—	2HFZ9
	16 in	100 lb	Satin	—	—	2HGA9
36 in	12 in	100 lb	Satin	NSF	—	2HGA1
	16 in	100 lb	Satin	—	—	2HGC1
48 in	12 in	100 lb	Satin	—	—	2HGA2
Aluminum						
Post Mount						
48 in	12 in	125 lb	Unfinished	NSF	New Age	14G291
	18 in	225 lb	Unfinished	NSF	New Age	6TJL2
Direct Mount						
24 in	11 in	150 lb	Satin	NSF	Advance Tabco	3KNA7
	12 in	200 lb	Unfinished	NSF	New Age	14G289
	12 in	300 lb	Unfinished	NSF	New Age	6TJK2
	15 in	300 lb	Unfinished	NSF	New Age	6TJK6
	18 in	300 lb	Unfinished	NSF	New Age	6TJL0 *
	24 in	300 lb	Unfinished	NSF	New Age	6TJL4 *
36 in	11 in	60 lb	Satin	NSF	Advance Tabco	3KNA8
	12 in	150 lb	Unfinished	NSF	New Age	14G290
	12 in	300 lb	Unfinished	NSF	New Age	6TJK3
	15 in	300 lb	Unfinished	NSF	New Age	6TJK7
	18 in	300 lb	Unfinished	NSF	New Age	6TJL1
48 in	11 in	300 lb	Satin	NSF	Advance Tabco	3KNA9
	12 in	225 lb	Unfinished	NSF	New Age	6TJK4
	15 in	225 lb	Unfinished	NSF	New Age	6TJK8
60 in	12 in	100 lb	Unfinished	NSF	New Age	14G292
	12 in	150 lb	Unfinished	NSF	New Age	6TJK5
	15 in	150 lb	Unfinished	NSF	New Age	6TJK9
	18 in	150 lb	Unfinished	NSF	New Age	6TJL3

** Microwave shelves include cord-management hole.*

Sandusky

Overhead Rack

Wire decking allows items stored on the racks to be viewed when standing under the racks and allows air to circulate through the racks for ventilation. Overhead racks mount to ceilings or overhead supports to create out-of-the-way storage for large or bulky items.

Overall WxDxH	Load Capacity	Item No.
48 in x 48 in x 30 in	300 lb	489K31

Pallet Rack Information

PALLET RACK CONSTRUCTION

Bolted

Lynx®

Teardrop

PALLET RACK STYLE

Roll-Formed

Structural

In order to choose the correct pallet rack, first determine the measurements of the largest load that will be stored and the weight of the heaviest load. This will help determine the load capacity and number of levels required. The vertical distance between the beams on a pallet rack impacts the rack's load capacity. As the vertical spacing between the beams increases, the rack's load capacity decreases.

Upright frames and beams can then be ordered to complete the pallet rack. Bays can be strung together by ordering the proper number of beams and one additional upright for each bay added. After the pallet rack is assembled, pallet rack decking can be used to help secure loads. Accessories can also be added as needed.

Before selecting a pallet rack, please be sure to check local ordinances for building code and seismic requirements, which may reduce the capacities listed or require factory modifications.

ACCESSORIES

Crossbars/Beam Ties
Span the distance between beams to stabilize loads.

Wall Spacers
Connect racks to walls for added stability.

Row Spacers
Connect and evenly space two rows of rack back to back.

Rack and Frame Protectors
Reduce impact damage from vehicular traffic.

Starter with Decking
- 2 Frames
- 4 Beams
- 4 Decks

Teardrop Roll-Formed Pallet Rack Units

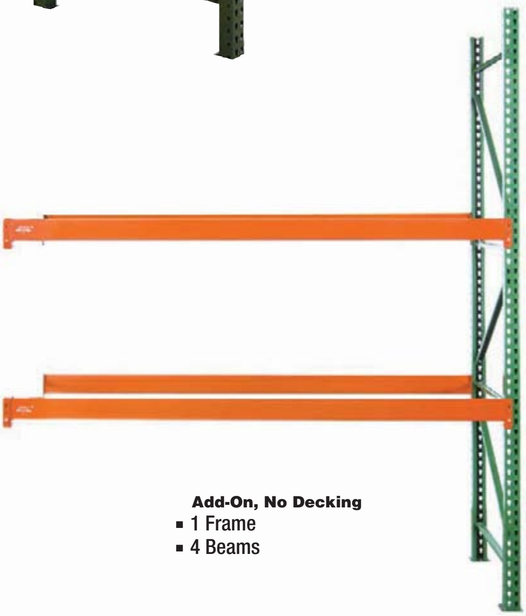
HUSKY RACK & WIRE™

- Fully-welded, steel teardrop frame design with 14-ga. uprights
- Rack Manufacturer's Institute (RMI) Certified
- Boltless assembly

Fully configured rack units include frames, beams, and choice of decking or no decking.

Usable Width	Overall Depth	Load Cap.*	Upright Load Capacity @ 36 in	Beam Gauge	Finish	STARTER WITH WIRE DECKING Item No.	ADD-ON WITH WIRE DECKING Item No.	STARTER NO DECKING Item No.	ADD-ON NO DECKING Item No.
8 ft Overall Height									
8 ft	36 in	6,111 lb	19,380 LB	14 ga	Polyurethane	**59LA55**	**59LA56**	—	—
	42 in	4,044 lb	21,450 LB	16 ga	Polyurethane	**21E922**	**21E933**	—	—
	42 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**21E923**	**21E934**	—	—
	48 in	6,111 lb	19,380 LB	14 ga	Polyurethane	**59LA59**	**59LA60**	**59LA57**	**59LA58**
10 ft	36 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**21E921**	**21E932**	—	—
	42 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**21E925**	**21E936**	—	—
	48 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**41D996**	**41D997**	**41D994**	**41D995**
11 ft	36 in	5,000 lb	21,450 LB	16 ga	Polyurethane	**21E920**	**21E931**	—	—
	42 in	5,000 lb	21,450 LB	16 ga	Polyurethane	**21E924**	**21E935**	—	—
10 ft Overall Height									
8 ft	36 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**48WK62**	**48WK61**	**48WK60**	**48WK59**
	42 in	4,044 lb	21,450 LB	16 ga	Polyurethane	**21E926**	**21E937**	—	—
	42 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**21E927**	**21E938**	—	—
	48 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**41E308**	**41E309**	**41D998**	**41D999**
9 ft	42 in	5,000 lb	21,450 LB	16 ga	Polyurethane	**21E928**	—	—	—
10 ft	36 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**48WK70**	**48WK69**	**48WK68**	**48WK67**
	42 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**21E929**	**21E940**	—	—
	48 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**41E312**	**41E313**	**41E310**	**41E311**
11 ft	36 in	5,000 lb	21,450 LB	16 ga	Polyurethane	**48WK66**	**48WK65**	**48WK64**	**48WK63**
	42 in	5,000 lb	21,450 LB	16 ga	Polyurethane	—	**21E939**	—	—
12 ft Overall Height									
8 ft	36 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**41E316**	**41E317**	**41E314**	**41E315**
	42 in	5,047 lb	21,450 LB	16 ga	Polyurethane	**41E320**	**41E321**	**41E318**	**41E319**
	42 in	6,111 lb	21,450 LB	16 ga	Polyurethane	**41E324**	**41E325**	**41E322**	**41E323**
	48 in	5,047 lb	21,450 LB	16 ga	Polyurethane	**41E328**	**41E329**	**41E326**	**41E327**
10 ft	42 in	4,062 lb	21,450 LB	16 ga	Polyurethane	**41E336**	**41E337**	**41E334**	**41E335**
11 ft	42 in	5,000 lb	21,450 LB	16 ga	Polyurethane	**41E332**	**41E333**	**41E330**	**41E331**
16 ft Overall Height									
8 ft	42 in	4,044 lb	29,410 LB	16 ga	Enamel	**453C47**	**453C48**	**453C49**	**453C50**
	42 in	5,047 lb	29,410 LB	16 ga	Enamel	**453C51**	**453C52**	**453C53**	**453C54**
	42 in	6,111 lb	29,410 LB	16 ga	Enamel	**453C55**	**453C56**	**453C57**	**453C58**
9 ft	42 in	5,000 lb	29,410 LB	16 ga	Enamel	**453C59**	—	—	—
10 ft	42 in	4,062 lb	29,410 LB	16 ga	Enamel	**453C63**	**453C64**	**453C65**	**453C66**
11 ft	42 in	5,000 lb	29,410 LB	16 ga	Enamel	—	**453C60**	**453C61**	**453C62**

** Capacity based on evenly distributed loads.*



Add-On, No Decking
- 1 Frame
- 4 Beams

HUSKY RACK & WIRE™

Teardrop Roll-Formed Pallet Rack Components

- Fully-welded, steel teardrop frame design
- Boltless assembly
- Choose frames, beams, and wire decking separately for custom configurations

Upright Frames—Feature teardrop punch pattern every 2". Horizontally and diagonally braced frames create a strong, stable system. Standard prepunched footplates make anchoring easy. Corrosion-resistant, green polyurethane finish.

Beams—Beams feature a safety clip which cannot be sprung or removed without first removing the beam; no special tools required. An audible click or simple glance confirms the lock is engaged. Corrosion-resistant, orange polyurethane finish.

Beam 21E914

Welded Upright Frame 1KBC1

Overall Height	Overall Depth	Load Cap.*	Upright Gauge	Color	Item No.
Upright Frame					
8 ft	36 in	19,380 lb	14	Green	**1KBC1**
	42 in	21,450 lb	14	Green	**1KBC3**
	48 in	19,380 lb	14	Green	**1KBC7**
10 ft	42 in	21,450 lb	14	Green	**1KBC4**
	48 in	21,450 lb	14	Green	**1KBC8**
12 ft	36 in	21,450 lb	14	Green	**1KBC2**
	42 in	21,450 lb	14	Green	**1KBC5**
	42 in	29,410 lb	14	Green	**1KBD1**
	48 in	21,450 lb	14	Green	**1KBC9**
16 ft	42 in	21,450 lb	14	Green	**1KBC6**
	42 in	29,410 lb	14	Green	**1KBD2**
	48 in	29,410 lb	14	Green	**8E593**
20 ft	42 in	29,410 lb	14	Green	**1KBD3**

Overall Width	Overall Height	Load Cap.*	Beam Gauge	Color	Item No.
Beams					
48 in	3 in	7,580 lb	16 ga	Orange	**21E914**
96 in	3 ½ in	4,190 lb	16 ga	Orange	**21E915**
	3 ⅞ in	5,210 lb	16 ga	Orange	**1KBD6**
	4 ¼ in	6,270 lb	16 ga	Orange	**1KBD7**
108 in	4 ¼ in	5,060 lb	16 ga	Orange	**21E916**
	5 ½ in	9,100 lb	14 ga	Orange	**1KBE2**
120 in	4 ¼ in	4,190 lb	16 ga	Orange	**21E917**
144 in	4 ¼ in	3,020 lb	16 ga	Orange	**21E918**
	5 ½ in	5,680 lb	14 ga	Orange	**1KBE3**
	6 in	8,300 lb	13 ga	Orange	**1KBE4**

Overall Width	Overall Depth	Overall Height	Item No.
Cross Bar, Zinc-Plated			
Step Beams			
36 in	3 3/16 in	1 ½ in	**1KBF3**
42 in	3 3/16 in	1 ½ in	**1KBF4**
48 in	3 3/16 in	1 ½ in	**1KBF5**
Wall Spacer‡, Zinc-Plated			
Back of Upright to Anchor to the Wall			
6 in	3 ¼ in	1 ⅝ in	**1KBE8**
8 in	3 ¼ in	1 ⅝ in	**1KBE9**
12 in	3 ¼ in	1 ⅝ in	**1KBF1**
Row Spacer‡, Zinc-Plated			
Back to Back Uprights			
6 in	3 ¼ in	1 ⅝ in	**1KBE5**
8 in	3 ¼ in	1 ⅝ in	**1KBE6**
12 in	3 ¼ in	1 ⅝ in	**1KBE7**
Pallet Rack Guard, Yellow			
4 ¼ in	2 ½ in	12 in	**1KBF2**
4 ¼ in	2 ½ in	18 in	**2CAX9**
Upright Shim, Gray			
4 ¼ in	—	—	**41D989**
Floor Anchor, Gray			
½ in	½ in	4 ¾ in	**53CU97**

** Capacity based on evenly distributed loads. ‡ Hardware included.*

Teardrop Roll-Formed Pallet Rack Components

STEEL KING BUILT TO DELIVER

- Boltless assembly
- Seismic components are available online, see Grainger.com®

Closed tubular columns and braces generate 250% greater durability against fork truck damage.

Upright Frames—Multiple offset anchor holes provide flexibility in anchor placement. Footpad with nesting ridge provides easy shim nesting, and flush footpad to column base evenly disperses load weight. Vista green powder-coat finish.

Beams—Teardrop and rivet design with heavy-duty connection plates allows easy installation and greater connection integrity. Auto-engaging safety clip resists beam disengagement and provides an audible click when secured. Poppy orange powder-coat finish.

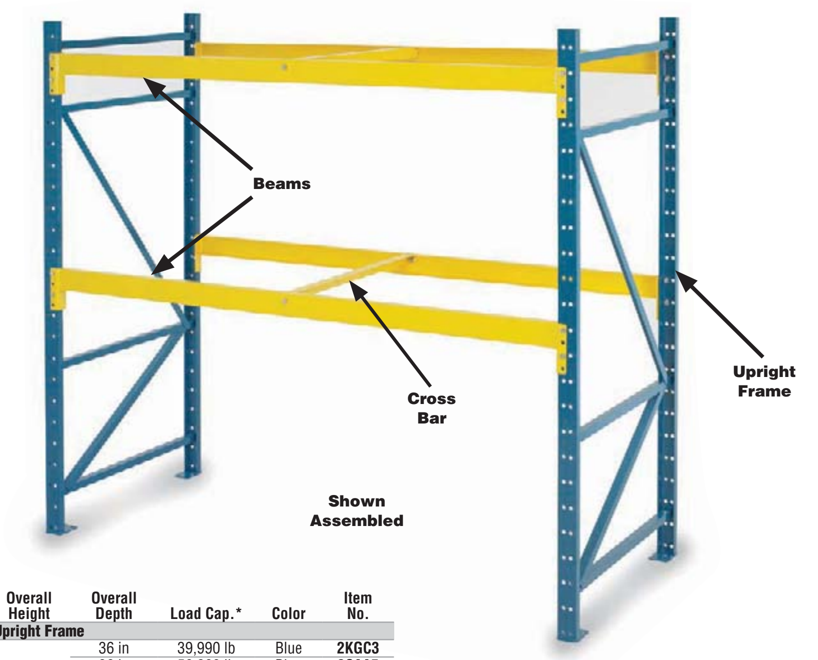
Shown Assembled

Overall Height	Overall Depth	Load Cap.*	Upright Gauge	Color	Item No.
Upright Frame					
8 ft	36 in	27,790 lb	14	Green	**4GWA9**
	42 in	27,790 lb	14	Green	**4GWC3**
	48 in	27,790 lb	14	Green	**4GWC8**
10 ft	36 in	27,790 lb	14	Green	**4GWC1**
	42 in	27,790 lb	14	Green	**4GWC4**
10 ft.	48 in	27,790 lb	14	Green	**4GWC9**
12 ft	36 in	27,790 lb	14	Green	**4GWC2**
	42 in	41,430 lb	14	Green	**4GWD2**
	48 in	27,790 lb	14	Green	**4GWD1**
16 ft	42 in	27,790 lb	14	Green	**4GWC6**
	42 in	41,430 lb	14	Green	**4GWD3**
	48 in	41,430 lb	14	Green	**46M190**
18 ft	42 in	41,430 lb	14	Green	**4GWD4**
20 ft	42 in	27,790 lb	14	Green	**4GWC7**
	42 in	41,430 lb	14	Green	**4GWD5**

Overall Width	Overall Height	Load Cap.*	Beam Gauge	Color	Item No.
Teardrop Pallet Rack Beams					
96 in	3 in	3,020 lb	14 ga	Orange	**10W861**
	3 in	4,000 lb	14 ga	Orange	**10W862**
	4 in	5,080 lb	14 ga	Orange	**10W863**
	4 in	6,080 lb	14 ga	Orange	**10W864**
108 in	3 in	3,240 lb	14 ga	Orange	**10W865**
	5 in	7,320 lb	14 ga	Orange	**10W866**
120 in	5 in	6,700 lb	14 ga	Orange	**10W867**
144 in	6 in	8,020 lb	14 ga	Orange	**10W868**

Overall Width	Overall Depth	Overall Height	Item No.
Pallet Rack Supports†, Galvanized			
Hat Shaped Pallet Support			
3 in	42 in	1 ½ in	**4GWA2**
Waterfall Pallet Support			
2 ⅞ in	36 in	1 ½ in	**4GWA3**
2 ⅞ in	42 in	1 ½ in	**4GWA4**
2 ⅞ in	48 in	1 ½ in	**4GWA5**
Teardrop Pallet Rack Row Spacers†, Galvanized			
Row Spacer			
3 in	8 in	2 in	**4GWA7**
10 in	12 in	2 in	**4GWA8**

** Based on evenly distributed loads. † Hardware included.*



STEEL KING BUILT TO DELIVER

Bolted Structural Channel Pallet Rack Components

- Fully welded steel construction
- Powder-coat finish resists chips and chemicals

Upright Frames—Hot-rolled structural channel columns are specially punched for 2" beam adjustability. Full horizontal and diagonal bracing increases frame strength. 7-ga. baseplate welded to column disperses floor load and increases stability. Multiple anchor holes allow easy floor mounting. Precaution Blue color.

Beams—Made with high-strength structural steel (50,000 psi min.) for superior rigidity and durability. Feature 2-bolt beam connections and 7-ga. wraparound connector plate to help square rack into position and create a tighter connection. Yellow color.

Cross bars are sold separately.

Overall Height	Overall Depth	Load Cap.*	Color	Item No.
Upright Frame				
8 ft	36 in	39,990 lb	Blue	**2KGC3**
	36 in	56,860 lb	Blue	**2CAA5**
	42 in	39,990 lb	Blue	**2KGC4**
	42 in	56,860 lb	Blue	**2CAA6**
	48 in	39,990 lb	Blue	**2KGC5**
	48 in	56,860 lb	Blue	**2CAA7**
10 ft	36 in	39,990 lb	Blue	**2KGC6**
	36 in	56,860 lb	Blue	**2CAA8**
	42 in	39,990 lb	Blue	**2KGC7**
	42 in	56,860 lb	Blue	**2CAA9**
	48 in	39,990 lb	Blue	**2KGC8**
	48 in	56,860 lb	Blue	**2CAC1**
12 ft	36 in	39,990 lb	Blue	**2KGC9**
	36 in	56,860 lb	Blue	**2CAC2**
	42 in	39,990 lb	Blue	**2KGD1**
	42 in	56,860 lb	Blue	**2CAC3**
	48 in	39,990 lb	Blue	**2CAA1**
	48 in	56,860 lb	Blue	**2CAC4**
16 ft	36 in	39,990 lb	Blue	**2CAA2**
	36 in	56,860 lb	Blue	**2CAC5**
	42 in	39,990 lb	Blue	**2CAA3**
	42 in	56,860 lb	Blue	**2CAC6**
	48 in	39,990 lb	Blue	**2CAA4**
	48 in	56,860 lb	Blue	**2CAC7**

** Based on evenly distributed load.*

Overall Width	Overall Height	Load Cap.*	Beam Gauge	Color	Item No.
Channel Beams, Pkg. of					
72 in	3 in	5,960 lb	7 ga	Yellow	**2CAC8**
96 in	3 in	4,900 lb	7 ga	Yellow	**2CAC9**
	4 in	7,120 lb	7 ga	Yellow	**2CAE2**
108 in	3 in	4,040 lb	7 ga	Yellow	**2CAE3**
	4 in	5,660 lb	7 ga	Yellow	**2CAE5**
	5 in	7,880 lb	7 ga	Yellow	**2CAE6**
120 in	3 in	3,320 lb	7 ga	Yellow	**2CAE7**
	4 in	4,600 lb	7 ga	Yellow	**2CAE8**
	5 in	6,360 lb	7 ga	Yellow	**2CAE9**
144 in	5 in	4,420 lb	7 ga	Yellow	**2CAF1**

W	H	D	Item No.
Rack Guard Right Side, Yellow			
7¾"	5"	—	**2KFZ9**
Rack Guard Left Side, Yellow			
7¾"	5"	—	**2KGA1**
Rack Frame Protector, Yellow			
8"	12"	4"	**2KGA6**
8"	24"	4"	**2KGA7**

L	Color	Item No.
Beam Ties		
For 5"H Beams		
36"	Yellow	**2ZNZ9**
42"	Yellow	**2ZPA1**
48"	Yellow	**2ZPA2**
Row Spacers		
3"W		
8"	Blue	**2CAF2**
10"	Blue	**2CAF3**
12"	Blue	**2CAF4**
4"W		
8"	Blue	**2CAF5**
10"	Blue	**2CAF6**
12"	Blue	**2CAF7**

HUSKY RACK & WIRE

Lynx® Roll-Formed Pallet Rack Components

- Fully-welded steel construction
- Upright frames and step beams are sold separately to allow for custom configurations
- Boltless assembly
- Corrosion-resistant polyurethane finish
- Accessories can be found on page 1242

Welded Upright Frames—Angle keyhole-slotted punch pattern every 3". Horizontally and diagonally braced frame creates a strong, stable upright system. Prepunched footplates for easy anchoring. Gray color.

Beams—Install without tools. The 3-prong connector features a front engaged spring-loaded safety clip that seats in the upright frame. Yellow color.

H	D	Load Capacity*	Item No.
Welded Upright Frames			
72"	36"	19,380 lb	**2CAV7**
	42"	19,380 lb	**2CAW2**
96"	36"	19,380 lb	**2CAV8**
	42"	19,380 lb	**2CAW3**
120"	36"	19,380 lb	**2CAV9**
	42"	19,380 lb	**2CAW4**
	42"	24,957 lb	**2CAW7**
144"	36"	19,380 lb	**2CAW1**
	36"	24,957 lb	**2CAW6**
	42"	19,380 lb	**2CAW5**
	42"	24,957 lb	**2CAW8**
192"	42"	24,957 lb	**2CAW9**

L	H	Load Capacity*	Item No.
Pallet Rack Beams			
96"	4"	4,570 lb	**2CAX1**
	5"	6,920 lb	**2CAX2**
	5½"	9,680 lb	**2CAX3**
108"	4½"	4,490 lb	**2CAX4**
	5½"	8,650 lb	**2CAX5**
120"	5"	4,830 lb	**2CAX6**
	5½"	7,460 lb	**2CAX7**
144"	6"	6,460 lb	**2CAX8**

** Based on evenly distributed load.*

NashvilleWire · HUSKY RACK & WIRE · LYON® · DENIOS THE HAZMAT PRO

Pallet Rack Decking

Pallet rack decking installs onto compatible pallet rack beams to distribute the weight of items placed on the decking across the beams. This decking is used for building or upgrading pallet racks that provide organized storage for palletized loads or large containers in warehouses, distribution centers, and other storage facilities.

Wire Decking - Waterfall edge wraps over the top and outer face of pallet rack step beams and keeps the decking in place on the beams. Air can circulate through wire decking to provide ventilation for items that are stored on it, and water can pass through the decking if sprinkler systems are activated.

Solid Decking - Dust, debris, and small items cannot fall through solid decking, which helps prevent product loss or contamination of items below the decking.

STANDARD-CHANNEL WIRE DECKING

Stronger than flare-channel decking but can only be installed on step beams because its U-shaped channel rests inside the step.

SPILL-CONTROL SUMP-INSERT DECKING

Installs onto pallet rack step beams and catches spills, leaks, or melting products. Features a leak-tight spill-containment sump covered by a steel grating that supports items on the decking. It is often used on pallet racks where containers of liquids or packages of frozen products are stored.

INVERTED-CHANNEL WIRE DECKING

This pallet rack decking has an inverted channel that dirt and debris cannot accumulate in. Inverted-channel decking is stronger than flare-channel decking. It can only be installed on step beams because the inverted U-shaped channel rests inside the step.

FLARE-CHANNEL WIRE DECKING

Can be installed on any type of pallet rack beam, including step beams, structural channel beams, and box beams.

4AYN7

Overall Depth	Load Cap.*	Finish	Color	Gauge	Brand	Item No.
Standard-Channel Waterfall Wire Pallet Rack Decking						
46 in Overall Width						
36 in	2,700 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F906**
	2,750 lb	Powder Coated	Gray	14 ga	Lyon	**55XG58**
	3,250 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**2JGK2**
	3,450 lb	Powder Coated	Gray	5 ga	Nashville Wire	**4AYP7**
42 in	2,000 lb	Powder Coated	Gray	14 ga	Lyon	**55XG61**
	2,500 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F909**
	2,610 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**2JGK5**
	2,950 lb	Powder Coated	Gray	5 ga	Nashville Wire	**4AYR1**
48 in	2,100 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**6GGL3**
	2,500 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F912**
	2,500 lb	Powder Coated	Gray	14 ga	Lyon	**55XG69**
	3,000 lb	Powder Coated	Gray	5 ga	Nashville Wire	**4AYR4**
	3,000 lb	Powder Coated	Gray	14 ga	Lyon	**55XG66**
48 in Overall Width						
36 in	8,247 lb	Powder Coated	Gray	14 ga	Lyon	**55XG65**
52 in Overall Width						
36 in	2,500 lb	Powder Coated	Gray	14 ga	Lyon	**55XG59**
	2,700 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F907**
	3,250 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**2JGK3**
	3,600 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYP8**
42 in	2,610 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**2JGK6**
	2,700 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F910**
	3,050 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYR2**
48 in	2,100 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**6GGL4**
	2,500 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**14F913**
58 in Overall Width						
36 in	2,500 lb	Powder Coated	Gray	14 ga	Lyon	**55XG63**
	2,700 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F908**
	3,750 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYP9**
	3,900 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**2JGK4**
42 in	2,750 lb	Zinc-Plated	Silver	6 ga	Nashville Wire	**14F911**
	3,150 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**6GGL2**
	3,200 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYR3**
48 in	2,500 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**14F914**
	2,630 lb	Zinc-Plated	Silver	6 ga	Husky Rack & Wire	**6GGL5**
	3,000 lb	Powder Coated	Gray	14 ga	Lyon	**55XG68**
60 in Overall Width						
36 in	8,247 lb	Powder Coated	Gray	14 ga	Lyon	**55XG60**
Spill-Control Sump-Insert Pallet Rack Decking						
96 in Overall Width						
36 in	6,900 lb	Zinc-Plated	Blue	11 ga	Denios	**21WK59**
42 in	6,900 lb	Zinc-Plated	Blue	11 ga	Denios	**21WK61**
108 in Overall Width						
36 in	6,900 lb	Zinc-Plated	Blue	11 ga	Denios	**21WK60**
42 in	6,900 lb	Zinc-Plated	Blue	11 ga	Denios	**21WK62**
Inverted-Channel Waterfall Wire Pallet Rack Decking						
46 in Overall Width						
36 in	2,700 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYR7**
42 in	2,600 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT1**
48 in	2,600 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT4**
52 in Overall Width						
36 in	2,850 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYR8**
42 in	2,700 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT2**
48 in	2,750 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT5**
58 in Overall Width						
36 in	2,950 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYR9**
42 in	2,800 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT3**
48 in	2,850 lb	Zinc-Plated	Silver	5 ga	Nashville Wire	**4AYT6**
Flare-Channel Waterfall Wire Pallet Rack Decking						
46 in Overall Width						
36 in	2,900 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYN7**
42 in	2,550 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP1**
48 in	2,550 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP4**
52 in Overall Width						
36 in	3,000 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYN8**
42 in	2,450 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP2**
48 in	2,650 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP5**
58 in Overall Width						
36 in	3,150 lb	Powder Coated	Gray	6 ga	Nashville Wire	**4AYN9**
42 in	2,600 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP3**
48 in	2,900 lb	Powder Coated	Gray	4 ga	Nashville Wire	**4AYP6**

** Based on evenly distributed loads.*

Pallet Rack Enclosure Kits

WireCrafters

- Constructed of gray 10-ga. powder-coated steel

Create an enclosure that controls access to pallet racks' contents, help prevent theft of high-value inventory on the racks, and stop items from falling off the racks. The kits include back and side panels that attach directly to the pallet rack. They also include an overhead door track and sliding front doors with lugs that accept a padlock for locking the doors. Wire mesh allows visibility and air circulation.

Overall Height	Overall Width	Overall Depth	2 BAYS Item No.	3 BAYS Item No.	5 BAYS Item No.
96 in	96 in	36 in	**38XY38**	**38XY02**	**38XY97**
		42 in	**38XZ21**	**38XZ30**	**38XZ57**
		48 in	**38XX93**	**38XZ11**	**38XY31**
	108 in	36 in	**38XZ04**	**38XZ23**	—
		42 in	**38XY77**	**38XZ66**	**38XZ10**
		48 in	**38XZ16**	**38XY81**	**38XY93**
	120 in	36 in	**38XZ47**	**38XY32**	**38XY62**
		42 in	**38XY95**	**38XY63**	**38XX98**
		48 in	**38XY09**	**38XZ34**	—
	144 in	36 in	**38XZ50**	**38XY08**	**38XY19**
		42 in	**38XY39**	**38XZ05**	**38XZ45**
		48 in	**38XY55**	—	**38XY73**
120 in	96 in	36 in	**38XY74**	**38XZ69**	**38XZ44**
		42 in	**38XZ74**	**38XY53**	**38XZ02**
		48 in	**38XZ76**	**38XZ53**	**38XZ35**
	108 in	36 in	**38XY69**	**38XX99**	**38XY21**
		42 in	**38XY47**	**38XY90**	**38XZ65**
		48 in	**38XY98**	—	**38XY18**
	120 in	36 in	**38XZ17**	**38XZ24**	**38XZ32**
		42 in	**38XZ09**	**38XY54**	**38XY22**
		48 in	**38XZ55**	**38XY14**	**38XZ39**
	144 in	36 in	**38XZ59**	—	**38XY25**
		42 in	**38XY78**	**38XY87**	**38XZ27**
		48 in	**38XY26**	**38XY10**	**38XZ20**
144 in	96 in	36 in	**38XY44**	**38XY15**	**38XY72**
		42 in	**38XY29**	**38XY61**	**38XY91**
		48 in	**38XZ36**	**38XY71**	**38XY03**
	108 in	36 in	**38XZ13**	**38XY28**	**38XY85**
		42 in	**38XY65**	**38XZ07**	**38XY27**
		48 in	**38XZ52**	**38XX95**	**38XY16**
	120 in	36 in	**38XY86**	**38XZ26**	**38XY58**
		42 in	**38XX97**	**38XY17**	**38XY04**
		48 in	**38XZ58**	**38XZ19**	**38XY99**
	144 in	36 in	**38XY84**	**38XZ18**	**38XY23**
		42 in	**38XZ63**	**38XZ37**	**38XY05**
		48 in	**38XZ67**	**38XZ22**	**38XY06**

38XY53
3 Shelving Bays

Collision Sentry Warning Device

Infrared motion detectors alert forklift drivers and pedestrians to movement in dangerous blind corner intersections. Highly visible LEDs flash and an audible alarm is issued when a collision is imminent. Volume is adjustable. Portable and compact device snaps onto racking for immediate deployment. Runs on D batteries (included) and features a low-battery indicator.

Overall Depth	Overall Width	Color	Item No.
3 ½ in	6 ½ in	Yellow	**437T14**

Rack Sentry Pallet Rack Protectors

Attach protectors to rack uprights to create a highly visible protective layer that withstands abuse from forklift collisions. Flexible EVA construction absorbs impact and then quickly returns to shape. Install directly onto uprights eliminating the need for drilling into and putting additional stress on the floor.

Usable Opening W	Usable Opening D	Overall Dim. W	Overall Dim. H	Item No.
3 in	3 in	3 in	18 in	**41A011**
3 ¼ in	3 in	3 ¼ in	18 in	**41A014**
3 ½ in	3 in	3 ½ in	18 in	**41A015**
4 in	3 in	4 in	18 in	**41A016**
4 ¾ in	3 in	4 ¾ in	18 in	**41A018**
w/Beam Cutout				
3 in	3 in	3 in	18 in	**41A012**
4 in	3 in	4 in	18 in	**41A017**
Rack End Mount				
3 in	3 in	3 in	18 in	**41A013**

41A011

Rack Guard Protectors

Floor-mounted uprights are cast steel with rubber bumpers to limit impact damage. Feature C-channel design and easily install to concrete surface. High-visibility powder-coat finish in safety yellow. Include four ⅞"-dia. mounting holes.

Usable Opening W	Usable Opening D	Overall Dim. W	Overall Dim. D	Overall Dim. H	Item No.
Pallet Rack Guard with Bumper					
4 ½ in	3 ⅝ in	8 ⅛ in	7 ¾ in	12 in	**22NP57**
	3 ⅝ in	8 ⅛ in	7 ¾ in	18 in	**22NP58**
	3 ⅝ in	8 ⅛ in	7 ¾ in	24 in	**22NP59**
	3 ⅝ in	8 ⅛ in	7 ¾ in	36 in	**22NP60**
6 ½ in	3 ⅝ in	10 ⅛ in	7 ¾ in	12 in	**22NP61**
	3 ⅝ in	10 ⅛ in	7 ¾ in	18 in	**22NP62**
	3 ⅝ in	10 ⅛ in	7 ¾ in	24 in	**22NP63**
	3 ⅝ in	10 ⅛ in	7 ¾ in	36 in	**22NP64**
Aisle Guard Mounting Clip					
Includes (4) Anchor Bolts					**22NP65**

22NP57

HUSKY RACK & WIRE

WireCrafters

Pallet Rack Guards and Mounting Clips

- Constructed of powder-coated steel

Guards install onto pallet rack uprights to stop items from falling off the back of the racks. Also known as aisle shields, rack guards do not need to be tensioned like netting. They are made of wire mesh, so users can see through them to view the racks' contents, air can circulate through them for ventilation, and water can pass through them if sprinkler systems are activated.

Overall Width	Overall Depth	Overall Height	Gauge	Includes Hardware	Color	Brand	Item No.
Welded-Frame Wire Mesh Pallet Rack Back Guards							
96 in	1"	36 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV3**
	1"	48 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV4**
	1"	60 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV8**
	1¼"	48 in	10 ga	No	Gray	Wirecrafters	**38XY83**
	1¼"	60 in	10 ga	No	Gray	Wirecrafters	**38XY20**
108 in	1"	48 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV5**
	1¼"	48 in	10 ga	No	Gray	Wirecrafters	**38XY33**
	1¼"	60 in	10 ga	No	Gray	Wirecrafters	**38XY01**
120 in	1"	48 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV6**
	1"	60 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV9**
	1¼"	48 in	10 ga	No	Gray	Wirecrafters	**38XY79**
	1¼"	60 in	10 ga	No	Gray	Wirecrafters	**38XY67**
144 in	1"	48 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWV7**
	1"	60 in	8 ga	Yes	Gray	Husky Rack & Wire	**1LWX1**
	1¼"	48 in	10 ga	No	Gray	Wirecrafters	**38XZ38**
	1¼"	60 in	10 ga	No	Gray	Wirecrafters	**38XY82**
Welded-Frame Wire Mesh Pallet Rack Side Guards							
33 in	1¼"	120 in	10 ga	Yes	Gray	Wirecrafters	**38XZ41**
	1¼"	144 in	10 ga	Yes	Gray	Wirecrafters	**38XY41**
39 in	1¼"	96 in	10 ga	Yes	Gray	Wirecrafters	**38XY80**
	1¼"	96 in	10 ga	Yes	Gray	Wirecrafters	**38XY51**
	1¼"	120 in	10 ga	Yes	Gray	Wirecrafters	**38XZ54**
	1¼"	144 in	10 ga	Yes	Gray	Wirecrafters	**38XZ29**
45 in	1¼"	96 in	10 ga	Yes	Gray	Wirecrafters	**38XX96**
	1¼"	120 in	10 ga	Yes	Gray	Wirecrafters	**38XZ49**
	1¼"	144 in	10 ga	Yes	Gray	Wirecrafters	**38XZ01**

Item	Overall Width	Overall Depth	Overall Height	Color	Brand	Item No.
Hardware for Welded-Frame Wire Mesh Back & Side Guards						
Aisle Guard Mounting Clip	2 in	2"	2 in	Gray	Wirecrafters	**38XZ03**
Aisle Guard Offset Mounting Clip	4 in	4"	2 in	Gray	Wirecrafters	**38XZ73**
	7 in	7"	2 in	Gray	Wirecrafters	**38XY36**
Hardware for Welded-Frame Wire Mesh Pallet Rack Back Guards						
Aisle Guard Offset Mounting Clip	4 in	4"	1 in	Black	Husky Rack & Wire	**1LWX3**
	6 in	6"	1 in	Black	Husky Rack & Wire	**1LWX4**
	¼ in	½"	1 in	Black	Husky Rack & Wire	**1LWX2**

Magnetic C-Channel Cardholders

Slip 'N Stik Label Holder Kit

Superscan® Label Holder

ALH AIGNER LABEL HOLDER

SUPERSCAN

Shelving and Pallet Rack Identification

Magnetic Label Rolls, Write-On/Wipe-Off—Custom labels that can be easily erased and reused. Clear vinyl topcoat can be used with any standard wet- or dry-erase marker.

Magnetic C-Channel Cardholders—Allow for quick changes in ID cards. Easily repositioned.

Slip 'N Stik Label Holder Kit—Print signs using the high-visibility yellow laser/inkjet paper provided. Snap into pallet rack assembly holes and snap out to relocate. Holds any sign up to ⅛" thick. Kit includes 10 holders and twelve 11" x 8½" sheets of laser/inkjet paper.

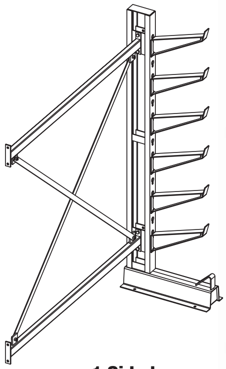
Superscan Label Holders—Special matte finish for accurate bar code scanning. Laser/inkjet-ready inserts are easy to print, insert, and remove.

W	L	Color	Brand	Item No.
Magnetic Label Roll, Write On/Wipe Off				
1 in	50 ft	White	Aigner Index	**4DE44**
2 in	50 ft			**4DE45**
3 in	50 ft			**4DE46**
Magnetic C-Channel Cardholders, Rolls				
1 in	50 ft	Black	Aigner Index	**1FYB1**
2 in	50 ft			**1FYB2**
3 in	50 ft			**1FYB3**

Color	Brand	Item No.	Pkg. Qty.
Slip N Stik Label Holder Kit			
Yellow	Aigner Index	**4DE40**	10

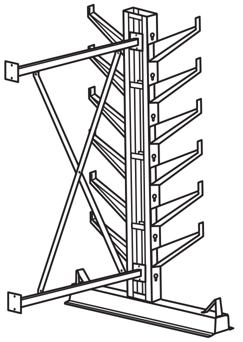
W	H	Color	Brand	Item No.	Pkg. Qty.
Superscan Label Holder - Self-Adhesive					
5 in	3"	Clear	Superscan	**3FU86**	50
Superscan Label Holder - Magnetic					
5 in	3"	Clear	Superscan	**3FU87**	50
6 in	4"	Clear	Superscan	**4TR23**	50

1-Sided Starter



1-Sided Add-On

2-Sided Starter



2-Sided Add-On

Cantilever Racks

JARKE

Kits come with all the necessary parts for assembling cantilever racks, which have arms that extend from their frames to create multiple storage levels. Also known as pipe storage racks and cantilever shelving, cantilever racks hold long materials such as tubing and pipe in maintenance departments, tool rooms, machine shops, and storage areas. Starter units can be used on their own as standalone racks. Add-on units can be connected to existing starter units or add-on units to create multi-unit cantilever rack systems, and they cannot be used on their own as standalone racks.

Components such as uprights, braces, arms, and stop sockets can be purchased to repair, upgrade, or add onto existing cantilever racks.

							Starter				Add-On			
Number of Usable Sides	Overall Depth	Overall Height	Arm L	Center Brace Length	Cap. per Unit†	Arm Style	Item No.	No. of Arms	Overall Width	Cap. per Arm*	Item No.	No. of Arms	Overall Width	Cap. per Arm*
Heavy-Duty Rack Kits														
Pin-Lock - 3 in Arm Adjustment														
1	40"	96"	24 in	68 in	12,530 lb	Straight	**3W588**	8	81½"	4,000 lb	**3W592**	4	74¾"	2,000 lb
	49"	10-ft	36 in	68 in	12,340 lb	Straight	**1WG17**	12	81½"	1,300 lb	**1WG16**	6	74¾"	1,300 lb
	61"	12-ft	48 in	68 in	9,690 lb	Straight	**3W589**	16	74¾"	1,000 lb	**3W593**	8	74¾"	1,000 lb
2	64¼"	96"	24 in	68 in	12,530 lb	Straight	**3W590**	16	81½"	2,000 lb	**3W594**	8	74¾"	2,000 lb
	81½"	10-ft	36 in	68 in	12,340 lb	Straight	**1WG14**	24	81½"	1,300 lb	**1WG13**	12	74¾"	1,300 lb
	105½"	12-ft	48 in	68 in	9,690 lb	Straight	**3W591**	32	74¾"	1,000 lb	**3W595**	16	74¾"	1,000 lb
Medium-Duty Rack Kits														
Bolt-On - 1 ½ in Arm Adjustment														
1	21"	84"	14 in	72 in	7,000 lb	Straight	**4UK92**	14	77⅝"	500 lb	—	—	—	—
	21¼"	84"	14 in	36 in	7,000 lb	Straight	**4UK90**	14	41⅝"	500 lb	—	—	—	—
2	34"	84"	14 in	72 in	14,000 lb	Straight	**4UK88**	28	77⅝"	500 lb	—	—	—	—
	34"	84"	14 in	36 in	14,000 lb	Straight	**4UK86**	28	38¾"	500 lb	—	—	—	—
Keyhole-Slot - 4 in Arm Adjustment														
1	26½"	84"	16 in	69 ½ in	12,000 lb	Straight	**8ALG4**	12	80½"	1,000 lb	**9WEA9**	6	75"	1,000 lb
	26½"	84"	16 in	69 ½ in	12,000 lb	Inclined	**4UK77**	12	80½"	1,000 lb	**4UK78**	6	75"	1,000 lb
2	45"	84"	12 in	69 ½ in	12,000 lb	Inclined	**9AG31**	24	80½"	1,000 lb	**9WRZ7**	12	75"	1,000 lb
	45"	84"	16 in	69 ½ in	24,000 lb	Straight	**8E553**	24	80½"	1,000 lb	**9LCG3**	12	75"	1,000 lb
	45"	84"	16 in	69 ½ in	24,000 lb	Inclined	**4UK79**	24	80½"	1,000 lb	**4UK80**	12	75"	1,000 lb
Pin-Lock - 3 in Arm Adjustment														
1	40"	96"	24 in	45 in	7,500 lb	Straight	**9JZ59**	8	55⅜"	650 lb	**9VZU4**	4	50³⁄₁₆"	650 lb
	49"	10-ft	36 in	69 in	5,700 lb	Straight	**9RUP0**	12	79⅜"	430 lb	**9RUP1**	6	74³⁄₁₆"	430 lb
2	64¼"	96"	24 in	45 in	7,500 lb	Straight	**9JZ60**	16	55⅜"	650 lb	**8AHK6**	8	50³⁄₁₆"	650 lb

Number of Usable Sides	Overall Width	Overall Depth	Overall Height	Maximum Load Capacity per Side	Maximum Arms per Side	Compatible Arm Length	Item No.
Uprights							
Keyhole-Slot							
1	8½"	21"	7-ft	6,000 lb	6	12 in, 16 in	**8TX57**
2	8½"	45"	7-ft	6,000 lb	6	12 in, 16 in	**8NGV9**
Pin-Lock							
1	9½"	34"	8-ft	14,950 lb, 18,520 lb	9	12 in, 18 in	**1CHV8**
	9½"	34"	10-ft	20,640 lb, 25,650 lb	12	12 in, 18 in	**1CHW3**
	9½"	40"	8-ft	12,530 lb	9	24 in	**1CHV9**
	9½"	40"	10-ft	16,680 lb	12	24 in	**1CHW4**
	9½"	40"	12-ft	16,730 lb	14	24 in	**1CHW8**
	9½"	49"	10-ft	12,340 lb, 14,250 lb	12	30 in, 36 in	**1CHW5**
	9½"	49"	12-ft	12,270 lb, 14,160 lb	14	30 in, 36 in	**1CHW9**
	9½"	49"	8-ft	9,460 lb, 10,780 lb	9	30 in, 36 in	**1CHW1**
	9½"	61"	8-ft	7,600 lb, 8,430 lb	9	42 in, 48 in	**1CHW2**
	9½"	61"	10-ft	9,730 lb, 10,880 lb	12	42 in, 48 in	**1CHW6**
	9½"	61"	12-ft	9,690 lb, 10,830 lb	14	42 in, 48 in	**1CHX1**
2	8"	65"	8-ft	12,530 lb	9	24 in	**12A215**
	9½"	53"	8-ft	14,950 lb, 18,520 lb	9	12 in, 18 in	**1CHX2**
	9½"	53"	12-ft	20,450 lb, 26,300 lb	14	12 in, 18 in	**1CHY1**
	9½"	65"	8-ft	12,530 lb	9	24 in	**1CHX3**
	9½"	65"	10-ft	16,860 lb	12	24 in	**1CHX7**
	9½"	65"	12-ft	16,730 lb	14	24 in	**1CHY2**
	9½"	82"	8-ft	9,460 lb, 10,780 lb	6	30 in, 36 in	**1CHX4**
	9½"	82"	10-ft	12,340 lb, 14,250 lb	12	30 in, 36 in	**1CHX8**
	9½"	82"	12-ft	12,340 lb, 14,250 lb	14	30 in, 36 in	**1CHY3**
	9½"	106"	8-ft	7,600 lb, 8,430 lb	7	42 in, 48 in	**1CHX5**
	9½"	106"	10-ft	9,730 lb, 10,880 lb	12	42 in, 48 in	**1CHX9**
	9½"	106"	12-ft	10,830 lb, 10,831 lb	14	42 in, 48 in	**1CHY4**

Load Capacity per Arm	Usable Arm Length	Overall Arm Length	REMOVABLE LIP Item No.	NO LIP Item No.
Heavy-Duty Pin-Lock Cantilever Rack Arms				
Straight				
1,000 lb	48 in	50 ²⁷⁄₃₂ in	**1CJA8**	**1CJA1**
1,145 lb	42 in	45 in	**1CJA7**	**1CHZ9**
1,300 lb	36 in	38 ⅞ in	**1CJA6**	**1CHZ8**
1,600 lb	30 in	33 in	**1CJA5**	**1CHZ7**
2,000 lb	24 in	26 ¼ in	**1CJA4**	**1CHZ6**
2,500 lb	18 in	21 in	**1CJA3**	**1CHZ5**
3,000 lb	12 in	15 in	**1CJA2**	**1CHZ4**
Inclined				
2,000 lb	24 in	26 ²⁷⁄₃₂ in	**3FY61**	**1CJB2**
2,500 lb	18 in	21 ⅝ in	**1CJB4**	**1CJB1**
3,000 lb	12 in	15 ⅝ in	—	**1CJA9**

Overall Length	Overall Height	Overall Depth	Item No.
Medium-Duty Keyhole-Slot Cantilever Rack Braces			
33½"	3"	11"	**9JA43**
Heavy-Duty Pin-Lock Cantilever Rack Braces			
32"	4½"	11"	**1CHY9**
44"	3"	11"	**1CHY6**
48"	4½"	11"	**1CHZ1**
56"	3"	11"	**1CHY7**
	4½"	11"	**1CHZ2**
72"	3"	11"	**1CHY8**
	4½"	11"	**1CHZ3**

**Based on evenly distributed loads. This is the maximum amount of weight an individual arm can hold. The capacity for one level of a shelving rack is equal to the sum of the arm capacities for all of the arms on that level.*

†Based on evenly distributed loads.

Grid Top

Antimicrobial Grid Top

Solid Top

METRO We put space to work. SPC INDUSTRIAL

Plastic Dunnage Racks

- Constructed of black high-density polyethylene
- 12"H leg posts
- Snap together for easy assembly

Plastic dunnage racks weigh less than metal racks and will not rust when used in areas where the racks will get wet.

Grid Top—Flow-through design permits scrap and liquids to fall or drain below. Antimicrobial models feature Microban® antimicrobial product protection.

Solid Top—Boxes can slide on and off without catching corners or damaging containers.

Overall Width	Overall Depth	Load Cap.	Material	Brand	Item No.
Grid Top					
22 in	30 in	1,500 lb	Polymer	Metro	**8TJN7**
	36 in	1,500 lb	Polymer	Metro	**9AH85**
	48 in	1,500 lb	Polymer	Metro	**8CGC7**
	60 in	1,500 lb	Polymer	Metro	**8RRZ4**
24 in	36 in	500 lb	Polyethylene	Structural Plastics	**4UW54**
	48 in	700 lb	Polyethylene	Structural Plastics	**1PXA1**
	66 in	1,000 lb	Polyethylene	Structural Plastics	**4UW56**
	96 in	1,400 lb	Polyethylene	Structural Plastics	**4UW58**
36 in	96 in	2,000 lb	Polyethylene	Structural Plastics	**1PWZ8**
Antimicrobial Grid Top					
22 in	30 in	1,500 lb	Polymer	Metro	**1BEY1**
	36 in	1,500 lb	Polymer	Metro	**1BEY2**
	48 in	1,500 lb	Polymer	Metro	**1BEY3**
	60 in	1,500 lb	Polymer	Metro	**1BEY4**
Solid Top					
24 in	36 in	700 lb	Polyethylene	Structural Plastics	**1PXA9**
	48 in	900 lb	Polyethylene	Structural Plastics	**1PWZ6**
	66 in	1,400 lb	Polyethylene	Structural Plastics	**1PXA7**
	96 in	1,800 lb	Polyethylene	Structural Plastics	**1PXA4**
36 in	96 in	2,700 lb	Polyethylene	Structural Plastics	**1PXA2**

Open-Deck Base

Wood-Deck

STEEL KING BUILT TO DELIVER

Stack Racks

- Steel construction

Stack rack bases support loads with uneven or irregularly shaped bottoms, such as bags or tires. Compatible posts fit into the bases to support additional rack levels and protect items on the racks from being crushed when stacking multiple racks vertically. Forklifts can pick up the racks from any side. **Open-deck bases** have cross stringers that support loads with firm, flat bottoms. The large open spaces between the cross stringers allow air to circulate through the deck for ventilation. **Wood-deck bases** have wood planks that sit on top of cross stringers, which support the planks when loads are placed on the deck.

Overall Width	Overall Depth	Overall Height	Load Capacity	Finish	Color	Brand	Item No.
Open-Deck Stack Rack Bases							
42 in	48 in	7 in	4,000 lb	Powder Coated	Gray	—	**1CJB6**
	60 in	6 ¼ in	2,000 lb	Powder Coated	Gray	—	**1CJC9**
		7 in	4,000 lb	Powder Coated	Gray	—	**1CJB7**
48 in	42 in	10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M179**
	48 in	6 ¼ in	2,000 lb	Powder Coated	Gray	—	**1CJD1**
		7 in	4,000 lb	Powder Coated	Gray	—	**1CJB8**
		10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M183**
	60 in	6 ¼ in	2,000 lb	Powder Coated	Gray	—	**1CJD2**
		7 in	4,000 lb	Powder Coated	Gray	—	**1CJC6**
60 in	42 in	10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M181**
Wood-Deck Stack Rack Bases							
42 in	48 in	7 in	4,000 lb	Powder Coated	Gray	—	**1CJB9**
	60 in	7 in	4,000 lb	Powder Coated	Gray	—	**1CJC1**
		9 in	2,000 lb	Powder Coated	Gray	—	**1CJD4**
48 in	42 in	10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M180**
	48 in	7 in	4,000 lb	Powder Coated	Gray	—	**1CJC2**
		9 in	2,000 lb	Powder Coated	Gray	—	**1CJD5**
		10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M184**
	60 in	6 ¼ in	2,000 lb	Powder Coated	Gray	—	**1CJD6**
		7 in	4,000 lb	Powder Coated	Gray	—	**1CJC7**
60 in	42 in	10 ½ in	4,000 lb	Baked Enamel	Green	Steel King	**46M182**

Load Capacity	Height	Item No.
Stack Rack Post Set of 4		
2,000 lb	36 in	**1CJD7**
2,000 lb	42 in	**1CJD8**
2,000 lb	48 in	**1CJD9**
4,000 lb	36 in	**1CJC3**
4,000 lb	42 in	**1CJC5**
4,000 lb	48 in	**1CJC4**

Aluminum

Wire

NEW AGE INDUSTRIAL

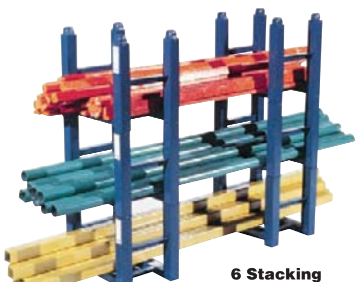
Aluminum & Wire Dunnage Racks

Open design promotes good air circulation and reduces dust and dirt buildup.

Overall Height	Overall Width	Overall Depth	Load Cap.	Finish	Brand	Item No.
Aluminum Dunnage Racks						
8 in	36 in	20 in	2,000 lb	Natural	New Age	**6TJH1**
		24 in	2,000 lb	Natural	New Age	**6TJH7**
	48 in	24 in	2,500 lb	Natural	New Age	**16D661**
		20 in	2,000 lb	Natural	New Age	**6TJH2**
		24 in	2,000 lb	Natural	New Age	**6TJH8**
	60 in	20 in	1,500 lb	Natural	New Age	**6TJH3**
		24 in	1,500 lb	Natural	New Age	**6TJH9**
12 in	24 in	18 in	2,500 lb	Natural	New Age	**16D665**
	36 in	18 in	3,000 lb	Natural	New Age	**16D666**
		20 in	3,000 lb	Natural	New Age	**16D662**
		20 in	2,000 lb	Natural	New Age	**6TJH4**
		24 in	2,000 lb	Natural	New Age	**6TJJ0**
	48 in	18 in	2,500 lb	Natural	New Age	**16D667**
		20 in	2,500 lb	Natural	New Age	**16D663**
		20 in	2,000 lb	Natural	New Age	**6TJH5**
		24 in	2,000 lb	Natural	New Age	**6TJJ1**
	60 in	18 in	2,000 lb	Natural	New Age	**16D668**
		20 in	2,000 lb	Natural	New Age	**16D664**
		20 in	1,500 lb	Natural	New Age	**6TJH6**
		24 in	1,500 lb	Natural	New Age	**6TJJ2**
Wire Dunnage Racks						
10 ½ in	36 in	24 in	1,400 lb	Chrome	—	**2HFX6**
	48 in	24 in	1,400 lb	Chrome	—	**2HFX7**
	60 in	24 in	1,400 lb	Chrome	—	**2HFX8**
14 in	24 in	18 in	800 lb	Chrome	—	**2HFX2**
	36 in	24 in	800 lb	Chrome	—	**2HFX3**
		24 in	800 lb	Natural	—	**2HFX5**

Modular 4-Post Stack Racks

Four-post racks each consist of four posts that are welded to a base, and they do not require assembly. The top of the racks' posts insert into sockets on additional bases to create a multilevel storage system. The posts protect items on the racks from being crushed when stacking multiple racks vertically. Multiple racks can also be placed side-by-side to accommodate pipe, tubing, extrusions, and other long items.


6 Stacking Racks (3 Levels High) Shown

Overall Width	Overall Depth	Overall Height	Load Capacity	Item No.
18 in	12 in	15 in	2,500 lb	**4UK83**
	14 in	18 in	3,700 lb	**4UK84**
24 in	15 in	22 in	5,600 lb	**4UK85**
	16 in	25 in	7,500 lb	**1WG15**

Flow Cell Gravity Flow Racks

UNEX

- Blue racks with 14-ga. shelves & 12-ga. posts
- Boltless racks have a 3000-lb. capacity per shelf; bolt-together racks have a 1000-lb. capacity per shelf

Stationary flow racks are suitable for areas where they will not be moved often. The racks have multiple storage levels with skate wheels, rollers, or decking that allow items at the back of the racks to glide forward as items at the front of the racks are removed. Choose racks that bolt together for assembly or boltless flow racks do not require bolts or special tools to assemble.

No. of Shelves	Overall Width	Overall Depth	Overall Height	STRAIGHT Starter Item No.	STRAIGHT Add-On Item No.	KNUCKLED Starter Item No.	KNUCKLED Add-On Item No.
Boltless Stationary Flow Racks							
Roller Track							
4 Shelves	48 in	72 in	84 in	**46KG68**	**46KG69**	—	—
		96 in	84 in	**46KG71**	**46KG72**	—	—
	96 in	72 in	84 in	**46KG80**	**46KG81**	**46KG98**	**46KG99**
		96 in	84 in	**46KG83**	**46KG84**	**46KH02**	**46KH03**
Skate Wheel Track							
4 Shelves	48 in	72 in	84 in	**46KG74**	**46KG75**	**46KG92**	**46KG93**
		96 in	84 in	**46KG77**	**46KG78**	**46KG95**	**46KG96**
	96 in	72 in	84 in	**46KG86**	**46KG87**	**46KH05**	**46KH06**
		96 in	84 in	**46KG89**	**46KG90**	**46KH08**	**46KH09**
Bolt-Together Stationary Flow Racks							
Roller Track							
3 Shelves	48 in	48 in	72 in	**46KF47**	**46KF49**	—	—
		60 in	72 in	**46KF51**	**46KF53**	—	—
	60 in	48 in	72 in	**46KF55**	**46KF57**	—	—
		60 in	72 in	**46KF59**	**46KF61**	—	—
	72 in	48 in	72 in	**46KF63**	**46KF71**	—	—
		60 in	72 in	**46KF65**	**46KF67**	—	—
		72 in	72 in	**46KF69**	**46KF73**	—	—
4 Shelves	48 in	48 in	72 in	**46KF48**	**46KF50**	—	—
		60 in	72 in	**46KF52**	**46KF54**	—	—
	60 in	48 in	72 in	**46KF56**	**46KF58**	—	—
		60 in	72 in	**46KF60**	**46KF62**	—	—
	72 in	48 in	72 in	**46KF64**	**46KF72**	—	—
		60 in	72 in	**46KF66**	**46KF68**	—	—
		72 in	72 in	**46KF70**	**46KF74**	—	—
Skate Wheel Track							
3 Shelves	48 in	48 in	72 in	**46KF75**	**46KF77**	—	—
		60 in	72 in	**46KF79**	**46KF81**	—	—
	60 in	48 in	72 in	**46KF83**	**46KF85**	—	—
		60 in	72 in	**46KF87**	**46KF89**	—	—
	72 in	48 in	72 in	**46KF94**	**46KF93**	—	—
		60 in	72 in	**46KF99**	**46KG02**	—	—
		72 in	72 in	**46KF91**	**46KF97**	—	—
4 Shelves	48 in	48 in	72 in	**46KF76**	**46KF78**	—	—
		60 in	72 in	**46KF80**	**46KF82**	—	—
		72 in	72 in	—	—	**46KG07**	**46KG14**
		84 in	72 in	—	—	**46KG06**	**46KG15**
		96 in	72 in	—	—	**46KG05**	**46KG16**
	60 in	48 in	72 in	**46KF84**	**46KF86**	—	—
		60 in	72 in	**46KF88**	**46KF90**	—	—
		72 in	72 in	—	—	**46KG08**	**46KG11**
		84 in	72 in	—	—	**46KG09**	**46KG17**
		96 in	72 in	—	—	**46KG10**	**46KG13**
	72 in	48 in	72 in	**46KF95**	**46KF96**	—	—
		60 in	72 in	**46KG01**	**46KG03**	—	—
		72 in	72 in	**46KF92**	**46KF98**	—	—
	96 in	96 in	72 in	—	—	**46KG12**	**46KG18**
Skate Wheel Track Workstations							
3 Shelves	72 in	96 in	72 in	**46KG04**	—	—	—

Roller Track - Rows of rollers provide a stable surface for moving loads with rimmed or uneven bottoms, such as kegs, pallets, and bags. Each level has a flat, flush front edge, making these flow racks suitable for conveying full cases and other unopened items.

Skate Wheel Track - Closely spaced rows of skate wheels allow boxes, totes, and other loads with firm, flat bottoms to glide on the racks. Skate wheel tracks spread the weight of conveyed items across a wider area than skate wheel rails, and they can support items in a range of sizes. Each level has a flat, flush front edge, making these flow racks suitable for conveying full cases and other unopened items.

Knuckled Racks - Each level has a sloped front edge that presents items at the front of the rack at a downward angle, making these flow racks suitable for applications where workers need to reach into open containers on the racks to pick items directly from the containers.

Flow Rack Workstations - A worktable provides a flat surface for performing inspection, assembly, and other work tasks on items picked from the rack. The racks also have a return lane underneath the worktable for returning empty containers.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Mobile Item No.
Bolt-Together				
Roller Track Mobile Flow Racks				
3 Shelves	36 in	48 in	54 in	**46KF19**
		60 in	54 in	**46KF20**
		72 in	54 in	**46KF21**
	48 in	48 in	54 in	**46KF22**
		60 in	54 in	**46KF23**
		72 in	54 in	**46KF24**
Skate Wheel Track Mobile Flow Racks				
3 Shelves	36 in	48 in	54 in	**46KF25**
		60 in	54 in	**46KF26**
		72 in	54 in	**46KF27**
	48 in	48 in	54 in	**46KF28**
		60 in	54 in	**46KF29**
		72 in	54 in	**46KF30**
Tilted Solid-Deck Mobile Flow Racks				
3 Shelves	36 in	28 in	72 in	**46KF31**
	52 in	28 in	72 in	**46KF33**
	60 in	28 in	72 in	**46KF35**
	76 in	28 in	72 in	**46KF37**

Knuckled Roller Unit 46KG98

Skate Wheel Unit 46KF83

Roller Track Mobile Unit 46KF19

SSI SCHÄFER

Solid-Deck Boltless Stationary Flow Racks

- 20-ga. shelves with 22-ga. posts
- 550-lb. capacity per shelf

Solid decking prevents small parts from falling through the shelves and will not snag items on the shelves. It also stops dirt and debris from falling through the shelves and contaminating items on lower levels. Boltless flow racks do not require bolts or special tools to assemble.

Flat decks are not tilted, so items at the back of the racks' shelves will not put weight on items at the front of the shelves if multiple items are lined up in a row, which helps prevent damage if there are heavy or compressible items on the shelves.

Tilted decking allows gravity to move items at the back of the racks forward as items at the front of the racks are picked.

Flat Deck 4VM04

Tilted Deck 4VM05

No. of Shelves	Overall Width	Overall Depth	Overall Height	Shelf Angle	Starter Item No.	Add-On Item No.
Flat Solid-Deck Stationary Flow Racks						
5 Shelves	48 in	24 in	78 in	Straight	**4VM03**	**4VL64**
		48 in	78 in	Straight	**4VM04**	**4VL65**
Tilted Solid-Deck Stationary Flow Racks						
5 Shelves	48 in	48 in	78 in	Straight/Tilted	**4VM05**	**4VL66**
		48 in	78 in	Tilted	—	**4VL68**
		48 in	78 in	Peak Tilted	—	**4VL69**
	50 in	24 in	78 in	Tilted	**38HV04**	**38HU96**

LITTLE GIANT

Freestanding Vertical Bar Rack

- Gray powder-coated finish
- 6000-lb. capacity

Easy to access and organize bar stock and tubing. Vertical storage requires less floor space. Includes security chain and hooks.

Overall Width	Overall Depth	Overall Height	Item No.
48 in	24 in	60 in	**20VA66**

Vertical

Horizontal

LITTLE GIANT

Sheet Racks

- Steel frames

Store long, thin panels or sheets such as drywall and plywood. They have vertical uprights or horizontal dividers that support items on the racks and keep them separated for organized storage. These racks are used in building supply stores, maintenance facilities, and other areas where panel and sheet goods are stored.

Number of Bays	Overall Width	Overall Depth	Overall Height	Brand	Item No.
Vertical					
2	60 in	30 in	33 in	Little Giant	**20VA64**
		36 in	33 in	Little Giant	**20VA65**
4	48 in	36 in	42 in	—	**3FY90**
		36 in	44 in	Little Giant	**20VA67**
		30 in	33 in	Little Giant	**20VA63**
Horizontal					
5	54 in	102 in	48 in	—	**1BBY4**
Multi-Orientation					
4	50 in	84 in	44 in	—	**3FY92**

1-Sided

2-Sided

tennsco Storage Made Easy

Tire Racks

- 2000-lb. capacity per shelf
- Gray powder coated finish

Tire racks hold tires and keep them off the floor and organized during storage. The racks provide efficient use of vertical space when storing tires in auto repair shops, car manufacturing facilities, and tire retail stores. These racks have vertical uprights and horizontal beams that connect to the uprights to create storage levels on the racks. The beams have rivets that fit into holes on the uprights, and the racks assemble without tools or bolts. **Double-sided racks** each consist of two single-sided racks that are joined with tie beams to create a double-sided rack that holds tires on both sides. Standalone racks cannot be expanded with add-on units, but multiple units can be placed side-by-side, if desired.

Overall Height	No. of Shelves	Maximum Number of Tires Held	Item No.
1-Sided			
60 in	2	16	**45UW73**
84 in	3	24	**45UW74**
10 ft	4	32	**45UW75**
12 ft	5	40	**45UW76**
2-Sided			
60 in	4	32	**45UW77**
84 in	6	48	**45UW78**
10 ft	8	64	**45UW79**
12 ft	10	80	**45UW80**

HUSKY RACK & WIRE Hallowell

Heavy-Duty Reel & Spool Racks

Steel rack frames with axle brackets accept compatible spindles or rods that hold reels and spools of material on the racks. The position of the axle brackets can be changed to accommodate different sizes of spools and reels. These racks hold multiple reels and spools and keep them organized and accessible. Starter units can be used on their own as standalone racks. Add-on units can be connected to existing starter units or add-on units to expand them, and they cannot be used on their own as standalone racks.

Starter
1XED7

Add-On
1XEE2

Overall Width	Overall Depth	No. of Spindles	Finish	Color	Whole Unit Load Capacity	Brand	Starter Item No.	Add-On Item No.
96 in Overall Height								
24 in	24 in	3	Enamel	Green/Orange	10,000 lb	Husky	**453C67**	**453C68**
36 in	24 in	3	Enamel	Green/Orange	10,000 lb	Husky	**453C69**	**453C70**
48 in	24 in	3	Enamel	Green/Orange	10,000 lb	Husky	**453C71**	**453C72**
	36 in	3	Enamel	Green/Orange	10,000 lb	Husky	**453C75**	**453C76**
99 in Overall Height								
36 in	36 in	3	Powder Coated	Blue/Gray	6,000 lb	Hallowell	**35UW11**	**35UW15**
39 in	36 in	3	Powder Coated	White	6,000 lb	—	**1XED5**	**1XED9**
48 in	36 in	3	Powder Coated	Blue/Gray	6,000 lb	Hallowell	**35UW12**	**35UW16**
51 in	36 in	3	Powder Coated	White	6,000 lb	—	**1XED7**	**1XEE2**
120 in Overall Height								
48 in	24 in	4	Enamel	Green/Orange	10,000 lb	Husky	**453C73**	**453C74**
	36 in	4	Enamel	Green/Orange	10,000 lb	Husky	**453C77**	**453C78**
123 in Overall Height								
36 in	36 in	4	Powder Coated	Blue/Gray	6,000 lb	Hallowell	**35UW13**	**35UW17**
39 in	36 in	4	Powder Coated	White	6,000 lb	—	**1XED4**	**1XED8**
48 in	36 in	4	Powder Coated	Blue/Gray	6,000 lb	Hallowell	**35UW14**	**35UW18**
51 in	36 in	4	Powder Coated	White	6,000 lb	—	**1XED6**	**1XEE1**
144 in Overall Height								
48 in	36 in	4	Enamel	Green/Orange	10,000 lb	Husky	**453C79**	**453C80**

Horizontal
5WXR0
(Sign & cylinders not included.)

Vertical
55PW85

SAFTCART SUPPLIER DIVERSITY DURHAM MFG Est. 1922 INSTOCK

Gas Cylinder Racks

Floor-standing racks keep gas cylinders organized and secure during storage. They are used in hospitals, manufacturing plants, and other locations where gas cylinders are used.

Horizontal gas cylinder racks have a frame with beams and crossbars that form shelving levels for holding propane cylinders in a horizontal position. Also known as propane cages, the racks have a door that can be locked to control access to the cylinders.

Vertical gas cylinder racks keep gas cylinders upright and secure during storage. They have vertical uprights that support the cylinders and keep them organized in rows. They also have chains that keep the cylinders secure inside the racks. The racks stand on a floor.

Overall Width	Overall Depth	For Maximum Number of Cylinders	Maximum Cylinder Diameter	Color	Brand	Item No.
Horizontal - 70 in H						
33 in	36 in	8	12 ½ in	Green	Saftcart	**5WXR0**
48 in	36 in	12	12 ½ in	Green	Saftcart	**5WXR1**
Vertical - 30 in H						
16 in	12 in	1	12 in	Black	Durham Mfg	**55PW89**
	24 in	2	12 in	Black	Durham Mfg	**55PW88**
	36 in	3	12 in	Black	Durham Mfg	**55PW87**
30 in	12 in	2	12 in	Black	Durham Mfg	**55PW86**
	18 in	2	11 in	White	Instock	**55PC67**
	24 in	4	12 in	Black	Durham Mfg	**55PW85**
	32 in	4	11 in	White	Instock	**55PC68**
	36 in	6	12 in	Black	Durham Mfg	**55PW84**
	48 in	8	12 in	Black	Durham Mfg	**55PW83**
	48 in	6	11 in	White	Instock	**55PC69**
44 in	12 in	3	12 in	Black	Durham Mfg	**55PW82**
45 in	18 in	3	11 in	White	Instock	**55PC70**
	32 in	6	11 in	White	Instock	**55PC71**
	48 in	9	11 in	White	Instock	**55PC72**

Scan. Order. Done.
Details on page A1.

Locker General Information

Standard Lockers are suitable for schools, fitness facilities, office break rooms, and other areas where they are unlikely to be exposed to impacts or other hazards. Typically constructed of steel, but also available in plastic and wood.

- **Wardrobe lockers** have a large vertical storage area for hanging apparel or long items
- **Combination lockers** have a bar or hooks for hanging clothing or long items, and shelves that provide flat storage for items that do not need to hang
- **Box lockers** have small compartments to hold personal items

Industrial Lockers are heavy-duty and more durable than standard lockers, making them suitable for personal storage in factories, machine shops, garages, and other areas where they may be exposed to impacts or other hazards.

Security Cages and Bulk Storage Lockers have large compartments to hold large or bulky items and equipment, and are commonly used in industrial or commercial settings such as factories, warehouses, condos, apartments, and offices. They have metal mesh walls and doors to allow air to circulate throughout the enclosure, preventing buildup of moisture or fumes. Contents are clearly visible from all sides.

Athletic and Tactical Gear Lockers have large storage compartments that hold bulky protective gear, uniforms, and other equipment. They provide personal storage in settings such as sporting facilities, firehouses, police stations, and military training facilities.

Mobile-Device Lockers are sized to hold and secure personal electronic devices. Typically installed in offices, hotels, and other public facilities.

Door Types:

- **Solid doors** fully conceal contents
- **Louvered doors** have slots to allow some airflow to reduce moisture and odor buildup
- **Ventilated doors** are perforated to allow optimal airflow and some visibility to contents
- **Clearview doors** allow full visibility to contents

Box Locker
(5) Tier, (1) Wide

Combination Wardrobe Locker
39FP09

Wardrobe Locker
(2) Tier, (3) Wide

Hallowell tennsco Storage Made Easy

Louvered Metal Lockers

- Sturdy steel construction
- Powder-coated finish

Louvered doors allow air circulation. Padlock hasp and number plates are included.

Locker Configuration	W	D	Opening WxH	▶CHOOSE: Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
Box Lockers - Hallowell						
66 in Overall Height						
(5) Tier, (1) Wide	12 in	12 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3792	G3791
		15 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3794	G3793
		18 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3796	G3795
(5) Tier, (3) Wide	36 in	12 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3798	G3797
		15 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3800	G3799
		18 in	9 ¼ in x 11 ½ in	Dark Gray, Tan	G3802	G3801
78 in Overall Height						
(6) Tier, (1) Wide	12 in	12 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1562	E1556
		15 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1563	E1557
		18 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1564	E1558
(6) Tier, (3) Wide	36 in	12 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1565	E1559
		15 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1566	E1560
		18 in	9 ¼ in x 10 ½ in	Dark Gray, Tan	E1567	E1561
Combination Wardrobe Lockers - Tennsco						
72 in Overall Height						
(1) Tier, (1) Wide	24 in	21 in	24 in x 72 in	Medium Gray	39FP09	—
		21 in	24 in x 72 in	Sand	39FP10	—
		24 in	24 in x 72 in	Medium Gray	38XD80	—
78 in Overall Height						
(1) Tier, (1) Wide	24 in	21 in	24 in x 72 in	Gray	5MDR6	—
			24 in x 72 in	Sand	5MDR7	—

Locker Configuration	W	D	Opening WxH	▶CHOOSE: Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
Wardrobe Lockers - Hallowell						
66 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 60 in	Dark Gray, Tan	G3732	G3731
		15 in	9 ¼ in x 60 in	Dark Gray, Tan	G3734	G3733
		18 in	9 ¼ in x 60 in	Dark Gray, Tan	G3736	G3735
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 57 in	Dark Gray, Tan	G3746	G3745
		15 in	9 ¼ in x 57 in	Dark Gray, Tan	G3748	G3747
		18 in	9 ¼ in x 57 in	Dark Gray, Tan	G3750	G3749
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 28 in	Dark Gray, Tan	G3760	G3759
		15 in	9 ¼ in x 28 in	Dark Gray, Tan	G3762	G3761
		18 in	9 ¼ in x 28 in	Dark Gray, Tan	G3764	G3763
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 28 in	Dark Gray, Tan	G3770	G3769
		15 in	9 ¼ in x 28 in	Dark Gray, Tan	G3772	G3771
		18 in	9 ¼ in x 28 in	Dark Gray, Tan	G3774	G3773
78 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 72 in	Tan, Dark Gray, Marine Blue	G7189	G7188
		15 in	9 ¼ in x 72 in	Tan, Dark Gray, Marine Blue	G7191	G7190
		18 in	9 ¼ in x 72 in	Tan, Dark Gray, Marine Blue	G7193	G7192
	15 in	15 in	12 ¼ in x 72 in	Dark Gray, Tan	G3738	G3737
		18 in	12 ¼ in x 72 in	Dark Gray, Tan	G3740	G3739
		21 in	12 ¼ in x 72 in	Tan	1AEF5	1ABY6
		24 in	12 ¼ in x 72 in	Tan	1AEF6	1ABY7
	18 in	18 in	15 ¼ in x 72 in	Dark Gray, Tan	G3742	G3741
		21 in	15 ¼ in x 72 in	Dark Gray, Tan	G3744	G3743
		24 in	15 ¼ in x 72 in	Tan	1AEG3	1ABZ4
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 69 in	Tan, Dark Gray, Marine Blue	G7195	G7194
		15 in	9 ¼ in x 69 in	Tan, Dark Gray, Marine Blue	G7197	G7196
		18 in	9 ¼ in x 69 in	Tan, Dark Gray, Marine Blue	G7199	G7198
	45 in	15 in	12 ¼ in x 69 in	Dark Gray, Tan	G3752	G3751
		18 in	12 ¼ in x 69 in	Dark Gray, Tan	G3754	G3753
		21 in	12 ¼ in x 69 in	Tan	1AEF8	1ABY9
		24 in	12 ¼ in x 69 in	Tan	1AEF9	1ABZ1
	54 in	18 in	15 ¼ in x 69 in	Dark Gray, Tan	G3756	G3755
		21 in	15 ¼ in x 69 in	Dark Gray, Tan	G3758	G3757
		24 in	15 ¼ in x 69 in	Tan	1AEG4	1ABZ5
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7201	G7200
		15 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7203	G7202
		18 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7205	G7204
	15 in	15 in	12 ¼ in x 34 in	Dark Gray, Tan	G3766	G3765
		18 in	12 ¼ in x 34 in	Dark Gray, Tan	G3768	G3767
		21 in	12 ¼ in x 34 in	Tan	1AEJ6	1AEB1
		24 in	12 ¼ in x 34 in	Tan	1AEJ7	1AEB2
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7207	G7206
		15 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7209	G7208
		18 in	9 ¼ in x 34 in	Tan, Dark Gray, Marine Blue	G7211	G7210
	45 in	15 in	12 ¼ in x 34 in	Dark Gray, Tan	G3776	G3775
		18 in	12 ¼ in x 34 in	Dark Gray, Tan	G3778	G3777
		21 in	12 ¼ in x 34 in	Tan	1AEJ9	1AEB4
		24 in	12 ¼ in x 34 in	Tan	1AEK1	1AEB5
(3) Tier, (1) Wide	12 in	12 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7213	G7212
		15 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7215	G7214
		18 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7217	G7216
(3) Tier, (3) Wide	36 in	12 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7219	G7218
		15 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7221	G7220
		18 in	9 ¼ in x 22 ¼ in	Tan, Dark Gray, Marine Blue	G7223	G7222

Padlock Hasps with Padlocks Included

(2) Tier, (3) Wide

Hallowell

Slope-Top Louvered Metal Lockers

- 78"H overall
- 24-ga. steel body
- 16-ga. frames
- 16-ga. louvered doors on wardrobe lockers, 18-ga. on box lockers
- Continuous piano hinge
- Powder-coated finish

Lockers have a sloped top that prevents dust from accumulating and discourages using the locker top for storage. Include master keyed combination padlocks and closed locker base. Padlocks with 3-number combinations for maximum security are included for each door. 6-tier models include aluminum strike plates to prevent padlocks from marring door finish.

▶**Please choose:** Tan, Dark Gray, Marine Blue

Locker Configuration	W	D	Opening WxH	ASSEMBLED Item No.
Box Lockers				
(6) Tier, (1) Wide	12 in	12 in	9 ¼ in x 11 ½ in	D4831
		15 in	9 ¼ in x 11 ½ in	D4833
		18 in	9 ¼ in x 11 ½ in	D4835
(6) Tier, (3) Wide	36 in	12 in	9 ¼ in x 11 ½ in	D4832
		15 in	9 ¼ in x 11 ½ in	D4834
		18 in	9 ¼ in x 11 ½ in	D4836
Wardrobe Lockers				
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 72 in	D4811
		15 in	9 ¼ in x 72 in	D4813
		18 in	9 ¼ in x 72 in	D4815
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 69 in	D4812
		15 in	9 ¼ in x 69 in	D4814
		18 in	9 ¼ in x 69 in	D4816
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 34 in	D4817
		15 in	9 ¼ in x 34 in	D4819
		18 in	9 ¼ in x 34 in	D4822
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 34 in	D4818
		15 in	9 ¼ in x 34 in	D4821
		18 in	9 ¼ in x 34 in	D4823
(3) Tier, (1) Wide	12 in	12 in	9 ¼ in x 22 ¼ in	D4824
		15 in	9 ¼ in x 22 ¼ in	D4826
		18 in	9 ¼ in x 22 ¼ in	D4828
(3) Tier, (3) Wide	36 in	12 in	9 ¼ in x 22 ¼ in	D4825
		15 in	9 ¼ in x 22 ¼ in	D4827
		18 in	9 ¼ in x 22 ¼ in	D4829

User-Programmable Electronic Lock

(3) Tier, (3) Wide Wardrobe Locker

Hallowell

Electronic Lock Louvered Metal Lockers

- 78"H overall
- 24-ga. steel body
- 16-ga. frames
- 16-ga. louvered doors
- Continuous piano hinge
- Parchment powder-coated finish

User-programmable electronic keypads allow shared use. Individuals can lock and unlock any available door with a user-selected 4-digit code. Management has access with 2 levels of master codes. Lockers can be programmed for single-use applications or for permanent use. Locks operate on CR123 battery (included). Number plates included.

W	D	ASSEMBLED Item No.	UNASSEMBLED Item No.
Box Lockers			
(6) Tier, (1) Wide			
12 in	12 in	2PGW2	2PGT5
12 in	15 in	2PGW4	2PGT7
12 in	18 in	2PGW6	2PGT9
(6) Tier, (3) Wide			
36 in	12 in	2PGW3	2PGT6
36 in	15 in	2PGW5	2PGT8
36 in	18 in	2PGW7	2PGU1
Wardrobe Lockers			
(1) Tier, (1) Wide			
12 in	12 in	2PGU2	2PGP5
12 in	15 in	2PGU4	2PGP7
12 in	18 in	2PGU6	2PGP9
(1) Tier, (3) Wide			
36 in	12 in	2PGU3	2PGP6
36 in	15 in	2PGU5	2PGP8
36 in	18 in	2PGU7	2PGR1
(2) Tier, (1) Wide			
12 in	12 in	2PGU8	2PGR2
12 in	15 in	2PGV1	2PGR4
12 in	18 in	2PGV3	2PGR6
(2) Tier, (3) Wide			
36 in	12 in	2PGU9	2PGR3
36 in	15 in	2PGV2	2PGR5
36 in	18 in	2PGV4	2PGR7
(3) Tier, (1) Wide			
12 in	12 in	2PGV5	2PGR8
12 in	15 in	2PGV7	2PGT1
12 in	18 in	2PGV9	2PGT3
(3) Tier, (3) Wide			
36 in	12 in	2PGV6	2PGR9
36 in	15 in	2PGV8	2PGT2
36 in	18 in	2PGW1	2PGT4

For Locker General Information, see page 1250.

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Quiet-Close Metal Wardrobe Lockers

- Durable steel construction
- 16-ga. frames
- 16-ga. reinforced doors
- Powder-coated finish

Lockers feature door stiffeners and rubber bumpers to minimize noise when opening and closing. Include padlock hasp and number plate.

Solid doors have flushed door design with recessed handle, continuous piano hinge, and 6"H legs.

Louvered doors allow air circulation. Polymer locker latches help facilitate quiet operation. Recessed locker handles.

Solid Doors (1) Tier, (1) Wide

Louvered Doors (2) Tier, (3) Wide

(2) Tier, (3) Wide

Locker Configuration	W	D	Opening WxH	Locker Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
Solid Doors - Hallowell						
78 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 72 in	Gray, Tan	**K4074**	**K4075**
		15 in	9 ¼ in x 72 in	Gray, Tan	**K4076**	**K4077**
		18 in	9 ¼ in x 72 in	Gray, Tan	**K4078**	**K4079**
	15 in	15 in	12 ¼ in x 72 in	Gray, Tan	**K4080**	**K4081**
		18 in	12 ¼ in x 72 in	Gray, Tan	**K4082**	**K4083**
	18 in	18 in	15 ¼ in x 72 in	Gray, Tan	**K4084**	**K4086**
		21 in	15 ¼ in x 72 in	Gray, Tan	**K4085**	**K4087**
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 69 in	Dark Gray, Tan	**K4088**	**K4095**
		15 in	9 ¼ in x 69 in	Dark Gray, Tan	**K4089**	**K4096**
		18 in	9 ¼ in x 69 in	Dark Gray, Tan	**K4090**	**K4097**
	45 in	15 in	12 ¼ in x 69 in	Dark Gray, Tan	**K4091**	**K4098**
		18 in	12 ¼ in x 69 in	Dark Gray, Tan	**K4092**	**K4099**
	54 in	18 in	15 ¼ in x 69 in	Dark Gray, Tan	**K4093**	**K4100**
		21 in	15 ¼ in x 69 in	Dark Gray, Tan	**K4094**	**K4101**
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4102**	**K4108**
		15 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4103**	**K4109**
		18 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4104**	**K4110**
	15 in	15 in	12 ¼ in x 34 in	Dark Gray, Tan	**K4105**	**K4111**
		18 in	12 ¼ in x 34 in	Dark Gray, Tan	**K4106**	**K4112**
	18 in	18 in	15 ¼ in x 34 in	Dark Gray, Tan	**K4107**	**K4113**
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4120**	**K4129**
		15 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4121**	**K4130**
		18 in	9 ¼ in x 34 in	Dark Gray, Tan	**K4122**	**K4131**
	45 in	15 in	12 ¼ in x 34 in	Dark Gray, Tan	**K4123**	**K4132**
		18 in	12 ¼ in x 34 in	Dark Gray, Tan	**K4124**	**K4133**
	54 in	18 in	15 ¼ in x 34 in	Dark Gray, Tan	**K4125**	**K4134**
(3) Tier, (1) Wide	12 in	12 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4114**	**K4117**
		15 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4115**	**K4118**
		18 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4116**	**K4119**
(3) Tier, (3) Wide	36 in	12 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4126**	**K4135**
		15 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4127**	**K4136**
		18 in	9 ¼ in x 22 ¼ in	Dark Gray, Tan	**K4128**	**K4137**
Louvered Doors - Tennsco						
12 in Overall Height						
(2) Tier, (1) Wide	12 in	12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	—	**F0418**
(2) Tier, (3) Wide		12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	—	**F0422**
36 in Overall Height						
(2) Tier, (1) Wide	12 in	18 in	9 ⅝ in x 34 ¼ in	Gray	**39FP27**	—
60 in Overall Height						
(1) Tier, (1) Wide	18 in	18 in	15 ⅝ in x 57 ⅞ in	Gray, Tan	**K4138**	—
(2) Tier, (1) Wide	15 in	18 in	12 ⅝ in x 28 ¼ in	Gray	**39FP31**	—
	36 in	18 in	12 ⅝ in x 28 ¼ in	Tan	**39FP32**	—
66 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	12 in x 60 in	Gray, Tan	—	**F0408**
		15 in	12 in x 60 in	Gray, Tan	**K4139**	—
		18 in	12 in x 60 in	Gray, Tan	**K4140**	**F0409**
(1) Tier, (3) Wide	36 in	12 in	9 ⅝ in x 57 ⅞ in	Gray, Tan	—	**F0413**
		15 in	9 ⅝ in x 28 ¼ in	Gray, Tan	**K4141**	—
		18 in	9 ⅝ in x 57 ⅞ in	Gray	—	**F0414**
		18 in	9 ⅝ in x 57 ⅞ in	Gray, Tan	**K4142**	—
(2) Tier, (3) Wide		12 in	9 ⅝ in x 28 ¼ in	Gray, Tan	**K4143**	—
		18 in	9 ⅝ in x 28 ¼ in	Gray, Tan	**K4144**	—

Locker Configuration	W	D	Opening WxH	Locker Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
72 in Overall Height						
(1) Tier, (1) Wide	12 in	15 in	12 in x 72 in	Gray, Tan	**K4145**	—
		18 in	12 in x 72 in	Gray, Tan	**K4146**	—
	15 in	18 in	15 in x 72 in	Gray, Tan	**K4147**	—
	24 in	24 in	24 in x 72 in	Gray, Tan	**K4148**	—
(1) Tier, (3) Wide	15 in	18 in	12 ⅝ in x 69 ⅞ in	Gray	**39FM37**	—
	36 in	15 in	9 ⅝ in x 69 ⅞ in	Gray, Tan	**K4149**	—
		18 in	9 ⅝ in x 69 ⅞ in	Gray, Tan	**K4150**	—
(2) Tier, (1) Wide	12 in	12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4151**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4152**	—
		18 in	9 ⅝ in x 36 in	Tan	**39FP28**	—
(2) Tier, (3) Wide	36 in	12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4155**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4156**	—
		18 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4157**	—
(3) Tier, (1) Wide	12 in	15 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4153**	—
		18 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4154**	—
(3) Tier, (3) Wide	36 in	12 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4158**	—
		18 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4159**	—
78 in Overall Height						
(1) Tier, (1) Wide	12 in	15 in	12 in x 72 in	Gray, Tan	**E1571**	**F0410**
		18 in	12 in x 72 in	Gray, Tan	**F0445**	**F0411**
	15 in	18 in	15 in x 72 in	Gray, Tan	**E1572**	**F0412**
	18 in	18 in	15 ⅝ in x 69 ⅞ in	Gray, Tan	**K4160**	—
		21 in	18 in x 72 in	Gray, Tan	**K4161**	—
	24 in	24 in	24 in x 72 in	Gray, Tan	**K4162**	—
(1) Tier, (3) Wide	36 in	15 in	9 ⅝ in x 69 ⅞ in	Gray, Tan	**E1573**	**F0415**
		18 in	9 ⅝ in x 69 ⅞ in	Gray, Tan	**F0446**	**F0416**
		18 in	12 in x 72 in	Tan	**39FM38**	—
	45 in	18 in	12 ⅝ in x 69 ⅞ in	Gray, Tan	**E1574**	**F0417**
(2) Tier, (1) Wide	12 in	12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4163**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray	**5MDP9**	—
		15 in	9 ⅝ in x 34 ¼ in	Tan	**5MDR0**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray, Tan	—	**F0419**
		18 in	9 ⅝ in x 34 ¼ in	Gray	**4LA23**	—
		18 in	9 ⅝ in x 34 ¼ in	Tan	**F0447**	—
	15 in	18 in	12 ⅝ in x 34 ¼ in	Gray, Tan	**E1576**	—
(2) Tier, (3) Wide	36 in	12 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**K4164**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**E1577**	—
		15 in	9 ⅝ in x 34 ¼ in	Gray	—	**5MDP7**
		15 in	9 ⅝ in x 34 ¼ in	Tan	—	**5MDP8**
		18 in	9 ⅝ in x 34 ¼ in	Gray, Tan	**F0448**	**F0424**
	45 in	18 in	12 ⅝ in x 34 ¼ in	Gray, Tan	**E1578**	**F0425**
(3) Tier, (1) Wide	12 in	15 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**F2269**	—
		18 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4164**	—
(3) Tier, (3) Wide	36 in	12 in	9 ⅝ in x 21 ⅞ in	Gray	**K4165**	—
		12 in	9 ⅝ in x 22 ¼ in	Tan	**K4165**	—
		15 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4166**	—
		18 in	9 ⅝ in x 22 ¼ in	Gray, Tan	**K4167**	—

Hallowell LYON®

Antimicrobial Steel Wardrobe Lockers

- 24-ga. solid body
- 16-ga. doors and frames
- Recessed handles with padlock hasps
- Light gray color

Lockers are treated with a special finish to prevent the growth of bacteria, mold, mildew, and other microbes. Ideal for hospitals and healthcare facilities.

Louvered doors allow air to circulate. 6"H legs.

Slope-top with solid doors prevent items from being stored on top of the locker. 4"H closed base.

Locker Configuration	W	D	Opening WxH	ASSEMBLED Item No.	UNASSEMBLED Item No.
Louvered - Hallowell					
78 in Overall Height					
(1) Tier, (1) Wide	12 in	18 in	9 ¼ in x 72 in	1RZT8	1RZR7
	15 in		12 ¼ in x 72 in	1RZU1	1RZR9
	18 in		15 ¼ in x 72 in	1RZU3	1RZT2
(1) Tier, (3) Wide	36 in		9 ¼ in x 69 in	1RZT9	1RZR8
	45 in		12 ¼ in x 69 in	1RZU2	1RZT1
	54 in		15 ¼ in x 69 in	1RZU4	1RZT3
(2) Tier, (1) Wide	12 in		9 ¼ in x 34 in	1RZU5	1RZT4
	15 in		12 ¼ in x 34 in	1RZU7	1RZT6
(2) Tier, (3) Wide	36 in		9 ¼ in x 34 in	1RZU6	1RZT5
	45 in		12 ¼ in x 34 in	1RZU8	1RZT7
Slope-Top Solid - Lyon					
80 in Overall Height					
(2) Tier, (3) Wide	36 in	12 in	12 in x 36 in	5LA99	5LA95
82 in Overall Height					
(1) Tier, (1) Wide	15 in	18 in	15 in x 72 in	5LA84	5LA82
	18 in		18 in x 72 in	5LA89	5LA86
(1) Tier, (3) Wide	45 in		15 in x 72 in	5LA85	5LA83
	54 in		18 in x 72 in	5LA91	5LA87
(2) Tier, (1) Wide	12 in	12 in	12 in x 36 in	5LA97	5LA93
		18 in	12 in x 36 in	5LB15	5LB11
(2) Tier, (3) Wide	36 in		12 in x 36 in	5LB17	5LB13

Louvered
(2) Tier, (1) Wide

Sloped Top
(1) Tier, (3) Wide

W	D	Opening WxH	Color	ASSEMBLED Item No.	UNASSEMBLED Item No.
Box Lockers					
(6) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 10 ½ in	Tan	4HE59	4VEF6
	15 in	9 ¼ in x 11 ½ in	Tan	4VEG9	4VEF8
	18 in	9 ¼ in x 10 ½ in	Tan	4HE61	4VEG1
	18 in	9 ¼ in x 10 ½ in	Silver	14L074	14L062
18 in	18 in	15 ¼ in x 10 ½ in	Silver	14L076	14L064
(6) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 10 ½ in	Tan	4HE60	4VEF7
	15 in	9 ¼ in x 11 ½ in	Tan	4VEH1	4VEF9
	18 in	9 ¼ in x 10 ½ in	Tan	4HE62	4VEG2
	18 in	9 ¼ in x 10 ½ in	Silver	14L075	14L063
54 in	18 in	15 ¼ in x 10 ½ in	Silver	14L077	14L065
Wardrobe Lockers					
(1) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 72 in	Tan	4HE47	4VED6
	15 in	9 ¼ in x 72 in	Tan	4VEG3	4VED8
	18 in	9 ¼ in x 72 in	Tan	4HE49	4VEE1
	18 in	9 ¼ in x 72 in	Silver	14L066	14L054
18 in	18 in	15 ¼ in x 72 in	Silver	14L068	14L056
(1) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 69 in	Tan	4HE48	4VED7
	15 in	9 ¼ in x 69 in	Tan	4VEG4	4VED9
	18 in	9 ¼ in x 69 in	Tan	4HE50	4VEE2
	18 in	9 ¼ in x 69 in	Silver	14L067	14L055
54 in	18 in	15 ¼ in x 69 in	Silver	14L069	14L057
(2) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 34 in	Tan	4HE51	4VEE3
	15 in	9 ¼ in x 34 in	Tan	4VEG5	4VEE5
	18 in	9 ¼ in x 34 in	Tan	4HE53	4VEE7
	18 in	9 ¼ in x 34 in	Silver	14L070	14L058
18 in	18 in	15 ¼ in x 34 in	Silver	14L072	14L060
(2) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 34 in	Tan	4HE52	4VEE4
	15 in	9 ¼ in x 34 in	Tan	4VEG6	4VEE6
	18 in	9 ¼ in x 34 in	Tan	4HE54	4VEE8
	18 in	9 ¼ in x 34 in	Silver	14L071	14L059
54 in	18 in	15 ¼ in x 34 in	Silver	14L073	14L061
(3) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 22 ¼ in	Tan	4HE55	4VEE9
	15 in	9 ¼ in x 22 ¼ in	Tan	4VEG7	4VEF2
	18 in	9 ¼ in x 22 ¼ in	Tan	4HE57	4VEF4
(3) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 22 ¼ in	Tan	4HE56	4VEF1
	15 in	9 ¼ in x 22 ¼ in	Tan	4VEG8	4VEF3
	18 in	9 ¼ in x 22 ¼ in	Tan	4HE58	4VEF5

Box Locker
(6) Tier, (1) Locker

Wardrobe Locker
(2) Tier, (1) Wide

Hallowell

Corrosion-Resistant Steel Lockers

- 78"H overall
- 24-ga. body
- 16-ga. frames
- 16-ga. doors on wardrobe lockers, 18-ga. on box lockers
- 6"H legs
- Continuous piano hinge
- Powder-coated finish

Lockers resist rusting when used in areas exposed to moisture or high humidity. Doors are louvered to allow air circulation. Padlock hasp and number plates are included.

For Locker General Information, see page 1250.

Box Locker
(6) Tier, (3) Wide

Wardrobe Locker
(2) Tier, (3) Wide
(Contents not included.)

Hallowell

Clearview Metal Lockers

- 78"H overall
- 6"H legs
- 24-ga. solid body
- Tan powder-coated finish

See-through door panels allow clear visibility of contents to aid in inventory control, loss prevention, and security. Number plates included.

Lockers with Electronic Keypad have a battery-powered lock that requires a 4-digit code for entry. Can be set to day-use or permanent-use mode. Low battery indicator with mechanical master key override. Master and sub-master codes allow 2 levels of management security.

Box lockers have a clear, injection-molded polycarbonate door.

Wardrobe lockers feature two clear polycarbonate inserts per door.

W	D	Opening WxH	Lock Type	ASSEMBLED Item No.	UNASSEMBLED Item No.
Box Lockers					
(6) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU15	4VEZ2
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW54	30LW46
	15 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU17	4VEZ4
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW56	30LW48
	18 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU19	4VEZ6
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW58	30LW50
(6) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU16	4VEZ3
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW55	30LW47
	15 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU18	4VEZ5
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW57	30LW49
	18 in	9 ¼ in x 10 ½ in	Padlock Hasp	4HU20	4VEZ7
		9 ¼ in x 10 ½ in	Electronic Keypad	30LW59	30LW51
Wardrobe Lockers					
(1) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 72 in	Padlock Hasp	4VFA5	4VEX2
	15 in	9 ¼ in x 72 in	Padlock Hasp	4VFA7	4VEX4
	18 in	9 ¼ in x 72 in	Padlock Hasp	4HE95	4VEX6
(1) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 69 in	Padlock Hasp	4VFA6	4VEX3
	15 in	9 ¼ in x 69 in	Padlock Hasp	4VFA8	4VEX5
	18 in	9 ¼ in x 69 in	Padlock Hasp	4HE96	4VEX7
(2) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 34 in	Padlock Hasp	4HE97	4VEX8
	15 in	9 ¼ in x 34 in	Padlock Hasp	4HE99	4VEY1
	18 in	9 ¼ in x 34 in	Padlock Hasp	4HU11	4VEY3
(2) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 34 in	Padlock Hasp	4HE98	4VEX9
	15 in	9 ¼ in x 34 in	Padlock Hasp	4HU10	4VEY2
	18 in	9 ¼ in x 34 in	Padlock Hasp	4HU12	4VEY4
(3) Tier, (1) Wide					
12 in	12 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4VFA9	4VEY5
	15 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4VFC2	4VEY7
	18 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4HU13	4VEY9
(3) Tier, (3) Wide					
36 in	12 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4VFC1	4VEY6
	15 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4VFC3	4VEY8
	18 in	9 ¼ in x 22 ¼ in	Padlock Hasp	4HU14	4VEZ1

Box Locker
(6) Tier,
(1) Wide

Wardrobe Locker
(1) Tier,
(1) Wide

Hallowell

Ventilated Steel Lockers

- 16-ga. body
- Ventilated doors and sides
- 14-ga. doors
- Dark gray powder-coated finish

Diamond-shaped perforations on doors and sides provide optimal air flow as well as visibility to contents. Welded frame provides a strong, rigid unit. Padlock hasp and number plates are included. 78"H units include 6"H legs; 72"H units do not have legs.

Locker Configuration	W	D	Opening WxH	ASSEMBLED Item No.	UNASSEMBLED Item No.
Box Lockers					
78 in Overall Height					
(6) Tier, (1) Wide	12 in	12 in	9 ¼ in x 11 ½ in	4VEL7	4VEJ7
		15 in	9 ¼ in x 11 ½ in	4VEL9	4VEJ9
		18 in	9 ¼ in x 10 ½ in	4HE93	4HE91
(6) Tier, (3) Wide	36 in	12 in	9 ¼ in x 11 ½ in	4VEL8	4VEJ8
		15 in	9 ¼ in x 11 ½ in	4VEN1	4VEK1
		18 in	9 ¼ in x 10 ½ in	4HE94	4HE92
Wardrobe Lockers					
72 in Overall Height					
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 72 in	2PGY2	—
		18 in	9 ¼ in x 72 in	2PGY4	—
	18 in	18 in	15 ¼ in x 72 in	2PGY6	—
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 69 in	2PGY3	—
		18 in	9 ¼ in x 69 in	2PGY5	—
	54 in	18 in	15 ¼ in x 69 in	2PGY7	—
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 36 in	2PGY8	—
		18 in	9 ¼ in x 36 in	2PGZ1	—
	18 in	18 in	15 ¼ in x 36 in	2PGZ3	—
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 34 in	2PGY9	—
		18 in	9 ¼ in x 34 in	2PGZ2	—
	54 in	18 in	15 ¼ in x 34 in	2PGZ4	—
78 in Overall Height					
(1) Tier, (1) Wide	12 in	12 in	9 ¼ in x 72 in	4VEK2	4VEH2
		15 in	9 ¼ in x 72 in	4VEK4	4VEH4
		18 in	9 ¼ in x 72 in	4HE71	4HE63
	15 in	15 in	9 ¼ in x 72 in	4VEK6	4VEH6
		18 in	12 ¼ in x 72 in	4HE73	4HE65
	18 in	18 in	15 ¼ in x 72 in	4HE75	4HE67
		21 in	15 ¼ in x 72 in	4HE77	4HE69
(1) Tier, (3) Wide	36 in	12 in	9 ¼ in x 69 in	4VEK3	4VEH3
		15 in	9 ¼ in x 69 in	4VEK5	4VEH5
		18 in	9 ¼ in x 69 in	4HE72	4HE64
	45 in	15 in	9 ¼ in x 69 in	4VEK7	4VEH7
		18 in	12 ¼ in x 69 in	4HE74	4HE66
	54 in	18 in	15 ¼ in x 69 in	4HE76	4HE68
		21 in	15 ¼ in x 69 in	4HE78	4HE70
(2) Tier, (1) Wide	12 in	12 in	9 ¼ in x 36 in	4VEK8	4VEH8
		15 in	9 ¼ in x 36 in	4VEL1	4VEJ1
		18 in	9 ¼ in x 36 in	4HE85	4HE79
	15 in	15 in	12 ¼ in x 36 in	4VEL3	4VEJ3
		18 in	12 ¼ in x 36 in	4HE87	4HE81
	18 in	18 in	15 ¼ in x 36 in	4HE89	4HE83
		21 in	15 ¼ in x 36 in	4VEL5	4VEJ5
(2) Tier, (3) Wide	36 in	12 in	9 ¼ in x 34 in	4VEK9	4VEH9
		15 in	9 ¼ in x 34 in	4VEL2	4VEJ2
		18 in	9 ¼ in x 34 in	4HE86	4HE80
	45 in	15 in	12 ¼ in x 34 in	4VEL4	4VEJ4
		18 in	12 ¼ in x 34 in	4HE88	4HE82
	54 in	18 in	15 ¼ in x 34 in	4HE90	4HE84
		21 in	15 ¼ in x 34 in	4VEL6	4VEJ6

Bradley

Plastic Wardrobe Lockers

- Durable HDPE construction
- Matte finish
- Include padlock hasps

Resist dents, scratches, and impacts and will not rust. Easy to clean and never require painting. Louvered doors allow air to circulate, reducing moisture and odor buildup inside the locker.

Z Lockers have both a tall vertical space for hanging coats or jackets, and a shorter horizontal space for personal items in each locker compartment.

Wardrobe Locker
(3) Tier, (1) Wide

Wardrobe Z Locker
(2) Tier, (1) Wide

Locker Configuration	W	D	Opening WxH	Number Plate Included	▶CHOOSE: Color	ASSEMBLED Item No.
Wardrobe Locker						
60 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	8 ¼ in x 58 in	Yes	Beige, Gray, Deep Blue	**F8839**
	12 in	15 in	8 ¼ in x 58 in	Yes	Beige	**2YY15**
	12 in	15 in	8 ¼ in x 58 in	Yes	Gray	**2YY16**
	12 in	15 in	8 ¼ in x 58 in	Yes	Deep Blue	**2YY17**
	12 in	18 in	8 ¼ in x 58 in	Yes	Beige, Gray, Deep Blue	**F8743**
(2) Tier, (1) Wide	12 in	12 in	8 ¼ in x 28 ½ in	No	Beige, Gray, Deep Blue	**F9061**
	12 in	15 in	8 ¼ in x 28 ½ in	No	Beige	**2YY21**
	12 in	15 in	8 ¼ in x 28 ½ in	No	Gray	**2YY22**
	12 in	15 in	8 ¼ in x 28 ½ in	No	Deep Blue	**2YY23**
	12 in	18 in	8 ¼ in x 28 ½ in	No	Beige, Gray, Deep Blue	**F9059**
(3) Tier, (1) Wide	12 in	12 in	8 ¼ in x 18 ⅝ in	No	Beige, Gray, Deep Blue	**F9052**
	12 in	15 in	8 ¼ in x 18 ⅝ in	No	Beige	**2YY33**
	12 in	15 in	8 ¼ in x 18 ⅝ in	No	Gray	**2YY34**
	12 in	15 in	8 ¼ in x 18 ⅝ in	No	Deep Blue	**2YY35**
	12 in	18 in	8 ¼ in x 18 ⅝ in	No	Beige	**2YY39**
	12 in	18 in	8 ¼ in x 18 ⅝ in	No	Gray	**2YY40**
	12 in	18 in	8 ¼ in x 18 ⅝ in	No	Deep Blue	**2YY41**
72 in Overall Height						
(1) Tier, (1) Wide	12 in	12 in	8 ¼ in x 70 in	Yes	Beige, Gray, Deep Blue	**F8391**
	12 in	15 in	8 ¼ in x 70 in	Yes	Beige, Gray, Deep Blue	**F9053**
	12 in	18 in	8 ¼ in x 70 in	Yes	Toffee	**F8482**
	12 in	18 in	8 ¼ in x 70 in	Yes	Beige, Gray, Deep Blue	**F9063**
	15 in	18 in	11 ¼ in x 70 in	Yes	Toffee	**F8481**
	15 in	18 in	11 ¼ in x 70 in	Yes	Beige, Gray, Deep Blue	**F9062**
(2) Tier, (1) Wide	12 in	12 in	8 ¼ in x 34 ½ in	No	Beige, Gray, Deep Blue	**F9060**
	12 in	15 in	8 ¼ in x 34 ½ in	No	Beige	**2YY24**
	12 in	15 in	8 ¼ in x 34 ½ in	No	Gray	**2YY25**
	12 in	15 in	8 ¼ in x 34 ½ in	No	Deep Blue	**2YY26**
	12 in	18 in	8 ¼ in x 34 ¼ in	No	Toffee	**F8480**
	12 in	18 in	8 ¼ in x 34 ½ in	No	Beige, Gray, Deep Blue	**F9058**
	15 in	18 in	11 ¼ in x 34 ¼ in	No	Toffee	**F8479**
	15 in	18 in	11 ¼ in x 34 ½ in	No	Beige, Gray, Deep Blue	**F9057**

Locker Configuration	W	D	Opening WxH	Number Plate Included	▶CHOOSE: Color	ASSEMBLED Item No.
(3) Tier, (1) Wide	12 in	12 in	8 ¼ in x 22 ⅝ in	No	Beige	**2YY30**
	12 in	12 in	8 ¼ in x 22 ⅝ in	No	Gray	**2YY31**
	12 in	12 in	8 ¼ in x 22 ⅝ in	No	Deep Blue	**2YY32**
	12 in	15 in	8 ¼ in x 22 ⅝ in	No	Beige	**2YY36**
	12 in	15 in	8 ¼ in x 22 ⅝ in	No	Gray	**2YY37**
	12 in	15 in	8 ¼ in x 22 ⅝ in	No	Deep Blue	**2YY38**
	12 in	18 in	8 ¼ in x 22 ⅝ in	No	Beige	**2YY42**
	12 in	18 in	8 ¼ in x 22 ⅝ in	No	Gray	**2YY43**
	12 in	18 in	8 ¼ in x 22 ⅝ in	No	Deep Blue	**2YY44**
	12 in	18 in	8 ¼ in x 22 ⅝ in	No	Toffee	**F8517**
	15 in	18 in	11 ¼ in x 22 ⅝ in	No	Toffee	**F8489**
	15 in	18 in	8 ¼ in x 22 ⅝ in	No	Beige, Gray, Deep Blue	**F9037**
Wardrobe Z Locker						
60 in Overall Height						
(2) Tier, (1) Wide	15 in	15 in	11 ¼ in x 40 ⅛ in	No	Beige, Gray, Deep Blue	**F8488**
	15 in	18 in	11 ¼ in x 40 ⅛ in	No	Beige, Gray, Deep Blue	**F8486**
	18 in	18 in	14 ¼ in x 47 in	No	Beige, Gray, Deep Blue	**F8484**
72 in Overall Height						
(2) Tier, (1) Wide	15 in	15 in	11 ¼ in x 47 in	No	Beige, Gray, Deep Blue	**F8487**
	15 in	18 in	11 ¼ in x 40 ⅛ in	No	Beige, Gray, Deep Blue	**F8485**
	18 in	18 in	14 ¼ in x 40 ⅛ in	No	Beige, Gray, Deep Blue	**F8483**

Hallowell

Wood Wardrobe Lockers

- 18" overall depth
- Built-in key locks
- Include number plates

Solid wood doors provide an attractive appearance and conceal contents for security.

Hybrid wood and metal lockers have 24-ga. steel body construction with a black powder-coated finish. Doors are red oak plywood wih a clear finish. 6"H legs.

Solid wood lockers provide an upscale appearance for high-end fitness facilities, hotels, and country clubs. Furniture-grade red oak plywood construction with a clear finish. Concealed cabinet hinges.

Hybrid Wood & Metal Locker
(3) Tier, (1) WIde

Solid Wood Locker
(1) Tier, (1) Wide

Locker Configuration	W	Opening WxH	UNASSEMBLED Item No.	ASSEMBLED Item No.
Hybrid Solid Wood & Metal Wardrobe Lockers				
78 in Overall Height				
(1) Tier, (1) Wide	12 in	9 ¼ in x 72 in	**4VEN2**	**4VEP3**
	15 in	12 ¼ in x 72 in	**4VEN4**	**4VEP5**
(1) Tier, (3) Wide	36 in	9 ¼ in x 69 in	**4VEN3**	**4VEP4**
	45 in	12 ¼ in x 69 in	**4VEN5**	**4VEP6**
(2) Tier, (1) Wide	12 in	9 ¼ in x 69 in	**4VEN6**	**4VEP7**
	15 in	12 ¼ in x 69 in	**4VEN8**	**4VEP9**
(2) Tier, (3) Wide	36 in	9 ¼ in x 69 in	**4VEN7**	**4VEP8**
	45 in	12 ¼ in x 69 in	**4VEN9**	**4VER1**
(3) Tier, (1) Wide	12 in	9 ¼ in x 69 in	**4VEP1**	**4VER2**
(3) Tier, (3) Wide	36 in	9 ¼ in x 69 in	**4VEP2**	**4VER3**

Locker Configuration	W	Opening WxH	ASSEMBLED Item No.
Solid Wood Wardrobe Lockers			
72 in Overall Height			
(1) Tier, (1) Wide	12 in	10 ½ in x 72 in	**4JWU4**
	15 in	13 ½ in x 72 in	**4JWU6**
(1) Tier, (3) Wide	36 in	10 ½ in x 70 ½ in	**4JWU5**
	45 in	13 ½ in x 70 ½ in	**4JWU7**
(2) Tier, (1) Wide	12 in	10 ½ in x 34 ½ in	**4JWU8**
	15 in	13 ½ in x 34 ½ in	**4JWX1**
(2) Tier, (3) Wide	36 in	10 ½ in x 34 ½ in	**4JWU9**
	45 in	13 ½ in x 34 ½ in	**4JWX2**
(3) Tier, (1) Wide	12 in	10 ½ in x 23 in	**4JWX3**
	15 in	13 ½ in x 23 in	**4JWX5**
(3) Tier, (3) Wide	36 in	10 ½ in x 23 in	**4JWX4**
	45 in	13 ½ in x 23 in	**4JWX6**

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Wall-Mount Metal Box Lockers

Clearview Doors
30LW61

Louvered Doors
5MDU8

- 16-ga.steel frames
- Powder-coated finish
- Include padlock hasp, except 30LW61 has electronic keypad

Lockers can be mounted to a wall to save floor space. Can be installed above benches and other furniture to provide storage for items in the area they are used.

Clearview doors are clear polycarbonate and allow full visibility of contents to aid in inventory control, loss prevention, and security.

Louvered doors allow air to circulate, reducing moisture and odor buiildup inside the locker.

Locker Configuration	W	D	Opening WxH	▶CHOOSE: Color	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors							
15 in Overall Height							
(1) Tier, (4) Wide	12 in	18 in	9 ¼ in x 12 in	Tan	Hallowell	**30LW61**	—
	48 in		9 ¼ in x 12 in	Tan	Hallowell	**4HU22**	—
Louvered Doors							
12 in Overall Height							
(1) Tier, (3) Wide	36 in	18 in	9 ⅝ in x 10 ⅝ in	Gray	Tennsco	**5MDU8**	—
			9 ⅝ in x 10 ⅝ in	Sand	Tennsco	**5MDU9**	—
(1) Tier, (4) Wide	48 in		9 ⅝ in x 10 ⅝ in	Gray	Tennsco	**5MDV0**	—
			9 ⅝ in x 10 ⅝ in	Sand	Tennsco	**5MDV1**	—
14 in Overall Height							
(1) Tier, (4) Wide	45 in	18 in	12 in x 12 in	Dove Gray, Putty	Lyon	**D7481**	**F8970**
15 in Overall Height							
(1) Tier, (4) Wide	48 in	18 in	9 ¼ in x 12 in	Dark Gray, Tan	Hallowell	**G3806**	**G3805**

Hallowell

Modular Metal Box Lockers

Clearview Door
30LW68
(Contents not included.)

Louvered Door
30LW73

Single-cube lockers can be mounted to a wall or set on a flat surface to provide personal storage. Multiple lockers can be stacked and attached to increase storage capacity. Prepunched holes on top, bottom, back, and sides for easy mounting or attachment.

Louvered doors have diamond perforations to provide optimal air flow as well as visibility to contents.

Solid doors are 18-ga. steel to fully conceal contents.

Clearview doors are clear polycarbonate and allow full visibility of contents to aid in inventory control, loss prevention, and security.

W	D	Opening WxH	Door Type	Blue Item No.	Black Item No.	Light Gray Item No.
Padlock Hasp						
11 in	12 in	9 ¼ in x 11 ¼ in	Louvered	**30LW62**	**30LW63**	**30LW64**
			Solid	**30LW65**	**30LW66**	**30LW67**
			Clearview	**30LW68**	**30LW69**	**30LW70**
Keyed						
11 in	12 in	9 ¼ in x 11 ¼ in	Louvered	**30LW71**	**30LW72**	**30LW73**
			Solid	**30LW74**	**30LW75**	**30LW76**
			Clearview	**30LW77**	**30LW78**	**30LW79**

LYON® | Hallowell | tennsco Storage Made Easy

Rack-Style Box Lockers

Clearview Doors
55XN57

Louvered Doors
5MDU6
(Contents not included.)

- 18"D overall
- Sturdy steel construction

Consist of multiple box lockers arranged in an arch shape. A coat rod extends underneath the top row of lockers for hanging garments.

Clearview doors are clear polycarbonate to allow full visibility to contents. Include padlock hasp, except 30LW52 and 30LW60 have electronic keypads.

Louvered doors allow air circulation. Include padlock hasp.

Locker Configuration	W	D	Opening WxH	▶CHOOSE: Color	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Clearview Doors							
78 in Overall Height							
(4) Wide, (6) Tier	69 in	18 in	12 in x 12 in	Gray	Lyon	**55XN22**	**55XN21**
			12 in x 12 in	Beige	Lyon	**55XN58**	**55XN57**
(6) Tier, (6) Wide	72 in		9 ¼ in x 10 ½ in	Tan	Hallowell	**4HU21**	**30LW52**
			9 ¼ in x 10 ½ in	Tan	Hallowell	**30LW60**	—
Louvered Doors							
72 in Overall Height							
(6) Tier, (6) Wide	72 in	18 in	9 ⅝ in x 10 ⅝ in	Medium Gray	Tennsco	**39FP33**	—
			9 ⅝ in x 10 ⅝ in	Sand	Tennsco	**39FP34**	—
78 in Overall Height							
(5) Wide, (6) Tier	60 in	18 in	9 ⅝ in x 10 ⅝ in	Gray	Tennsco	**5MDU4**	—
			9 ⅝ in x 10 ⅝ in	Sand	Tennsco	**5MDU5**	—
(6) Tier, (6) Wide	69 in		8 ¾ in x 10 ⅝ in	Dove Gray, Putty	Lyon	**F8971**	**F8972**
	72 in		9 ¼ in x 10 ½ in	Dark Gray, Tan	Hallowell	**G3804**	**G3803**
			9 ⅝ in x 10 ⅝ in	Gray	Tennsco	**5MDU6**	**3W132**
			9 ⅝ in x 10 ⅝ in	Sand	Tennsco	**5MDU7**	—

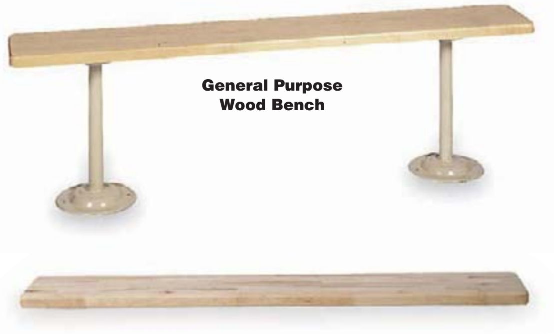
Steel Wardrobe and Box Locker Accessories

- Install on compatible standard lockers, sold separately on pages 1250-1253

W	D	H	▶CHOOSE: Color	Brand	Item No.
Slope-Top Components & Kits for Standard Lockers					
12 in	12 in	4 ¼ in	Gray, Sand	Tennsco	**F0437**
	15 in	5 ½ in	Gray	Tennsco	**5MDR3**
	15 in	6 in	Sand	Tennsco	**5ZK01**
	18 in	6 ½ in	Sand	Tennsco	**5ZK02**
	18 in	6 in	Gray	Tennsco	**6A284**
15 in	15 in	5 in	Tan, Dark Gray	Hallowell	**G3807**
	18 in	6 ½ in	Sand, Gray	Tennsco	**F0440**
	21 in	7 in	Tan	Hallowell	**1AEN6**
	24 in	8 in	Tan	Hallowell	**1AEN7**
18 in	24 in	8 in	Tan	Hallowell	**1AEN9**
24 in	24 in	8 ½ in	Gray	Tennsco	**38XD81**
36 in	12 in	4 ¼ in	Gray, Sand	Tennsco	**F0441**
	15 in	6 in	Sand, Gray	Tennsco	**F0442**
	18 in	6 ½ in	Sand, Gray	Tennsco	**F0443**
45 in	18 in	6 ½ in	Sand, Gray	Tennsco	**F0444**

H	D	▶CHOOSE: Color	Brand	Item No.
End Panels for Standard Lockers				
Locker Finished End Panel				
60 in	12 in	Beige, Dark Gray	Hallowell	**G3812**
	15 in	Beige, Dark Gray	Hallowell	**G3813**
	18 in	Beige, Dark Gray	Hallowell	**G3814**
72 in	12 in	Beige, Dark Gray	Hallowell	**E1568**
	15 in	Beige, Dark Gray	Hallowell	**E1569**
	18 in	Beige, Dark Gray	Hallowell	**E1570**
	21 in	Beige, Dark Gray	Hallowell	**G3815**
	24 in	Beige	Hallowell	**1AET6**
	12 in	Marine Blue	Hallowell	**1AEU5**
	15 in	Marine Blue	Hallowell	**1AEU6**
	18 in	Marine Blue	Hallowell	**1AEU7**

W	D	For Locker Width	For Locker Depth	▶CHOOSE: Color	Brand	Item No.
Base Components & Kits for Standard Lockers						
End Base						
11 in	11 in	12 in	12 in	Tan	—	**F8352**
Front Base						
10 ⅛ in	10 ⅛ in	12 in	12 in	Gray, Tan	—	**F8354**
15 in	15 in	15 in	15 in	Gray	—	**F8353**
18 in	18 in	18 in	18 in	Tan	—	**D7499**



Benches, Tops, and Pedestals

Overall Height	Bench Top Width	▶CHOOSE: Color	Brand	Item No.
General Purpose Wood Locker Room Benches				
18 in	4 ft	Gray	Lyon	**5JP12**
		Putty	Lyon	**5JT96**
	5 ft	Gray	Lyon	**5JP13**
		Putty	Lyon	**5JT97**
	6 ft	Gray	Lyon	**5JP24**
		Putty	Lyon	**5JV09**
	8 ft	Gray	Lyon	**5JP25**
		Putty	Lyon	**5JV10**
Corrosion-Resistant Aluminum Locker Room Benches				
17 in	6 ft	Gray	Lyon	**8AFH8**
	8 ft	Gray	Lyon	**9DJ14**
	10 ft	Gray	Lyon	**8RG31**
Low-Maintenance Plastic Locker Room Benches				
19 in	3 ft	Beige, Gray, Deep Blue	Bradley	**F9049**
	6 ft	Beige, Gray, Deep Blue	Bradley	**F9051**
Rubber Feet for Bench Pedestals				
1 in		White	Lyon	**8VLM9**

W	Brand	Item No.
Tops for Locker Room Benches		
Laminated Maple		
3 ft	Hallowell	**2PGZ5**
4 ft	Hallowell	**2PGZ6**
5 ft	Hallowell	**2PGZ7**
6 ft	Hallowell	**2PGZ8**
8 ft	Hallowell	**2PGZ9**
Wood		
6 ft	Tennsco	**8AZ85**
Carbon Steel		
3 ft	Tennsco	**8DRC9**
4 ft	Tennsco	**9LG16**
5 ft	Tennsco	**9X089**
7 ft	Tennsco	**8NCC5**
8 ft	Tennsco	**8AZ86**

H	W	Footplate Width	Color	Material	Brand	Item No.
Pedestals for Locker Room Benches						
Round Post						
15 ⅞ in	8 in	8 in	Tan	Steel	Hallowell	**14L052**
16 ¼ in	8 ¼ in	8 ¼ in	Gray	Steel	Tennsco	**8TKU8**
16 ¼ in	8 ¼ in	8 ¼ in	Sand	Steel	Tennsco	**9WDU9**
16 ¾ in	6 in	6 in	Tan	Cast Iron	Hallowell	**2PHA3**
16 ¾ in	8 in	7 ¾ in	Tan	Steel/Aluminum	Hallowell	**2PHA4**
Trapezoid						
16 ¼ in	15 ⅛ in	3 in	Silver	Stainless Steel	Hallowell	**14L053**
16 ¾ in	12 in	3 in	Tan	Aluminum	Hallowell	**2PHA5**

For Locker General Information, see page 1250.

55MW82
(Contents not included.)

StrongHold · Hallowell · DURHAM MFG Est. 1922

Industrial Lockers

- Durable steel construction
- Gray finish
- Include padlock hasps
- Assembled

Heavy-duty lockers are for personal storage in factories, machine shops, garages, and other areas where they may be exposed to impacts or other hazards.

Configuration	W	D	H	Opening WxH	Locker Finish	Brand	Item No.
Shelf Lockers							
Ventilated Door							
(1) Tier, (1) Wide	19 in	18 in	75 in	—	Galvanneal	Hallowell	**1AEL7**
	24 in	24 in	78 in	—	Powder Coated	Durham Mfg	**55MW82**
Combination Wardrobe Lockers							
Solid Door							
(2) Tier, (2) Wide	50 in	24 in	78 in	21 ½ in x 32 ¾ in	Enamel	Strong Hold	**4EKH5**
(2) Tier, (3) Wide	74 in	24 in	78 in	21 ½ in x 32 ¾ in	Enamel	Strong Hold	**4EKH6**
(2) Tier, (5) Wide	122 in	24 in	78 in	21 ½ in x 32 ¾ in	Enamel	Strong Hold	**4EKH8**
Wardrobe Lockers							
Ventilated Door							
(1) Tier, (1) Wide	18 in	22 in	72 in	15 ¼ in x 72 in	Powder Coated	Hallowell	**1RZU9**
	24 in	22 in	72 in	21 ¼ in x 72 in	Powder Coated	Hallowell	**1RZV1**
Louvered Door							
(1) Tier, (4) Wide	50 in	18 in	78 in	10 in x 66 ¾ in	Enamel	Strong Hold	**5KAZ6**

Expanded Metal

Wire Mesh
(4) shelves, (2) units wide

LITTLE GIANT · Jamco Products · FOLDING GUARD

Security Cages

- Powder-coated finish
- Assembled

Keep large or bulky items and equipment secure in warehouses, factories, and industrial settings. Metal mesh walls and doors allow air to circulate throughout the cage, preventing buildup of moisture or fumes. Contents are clearly visible from all sides.

Expanded metal cages have smaller mesh openings and provide more rigidity than wire mesh. Padlock hasp included.

Wire mesh cages have larger mesh openings to provide more airflow and visibility than expanded mesh, and include a keyed lock.

W	D	Number of Units Wide	No. of Doors	No. of Shelves	Brand	Item No.
Expanded Metal Security Cage Lockers						
52 in Height						
49 in	27 in	1	2	0	Little Giant	**20WT87**
	33 in	1	2	0	Little Giant	**20WT89**
61 in	27 in	1	2	0	Little Giant	**20WT88**
	33 in	1	2	0	Little Giant	**20WT90**
	39 in	1	2	0	Little Giant	**20WT92**
73 in	33 in	1	2	0	Little Giant	**20WT91**
	39 in	1	2	0	Little Giant	**20WT93**
54 in Height						
48 in	24 in	1	2	0	Jamco	**18G981**
	36 in	1	2	0	Jamco	**18G985**
60 in	24 in	1	2	0	Jamco	**18G982**
	30 in	1	2	0	Jamco	**18G984**
	36 in	1	2	0	Jamco	**18G986**
72 in	36 in	1	2	0	Jamco	**18G987**
78 in Height						
49 in	27 in	1	2	0	Little Giant	**20WU13**
	33 in	1	2	0	Little Giant	**20WU15**
60 in	33 in	1	2	0	Little Giant	**20WU16**
	39 in	1	2	0	Little Giant	**20WU18**
61 in	27 in	1	2	0	Little Giant	**20WU14**
72 in	33 in	1	2	0	Little Giant	**20WU17**
73 in	39 in	1	2	0	Little Giant	**20WU19**
Wire Mesh Security Cage Lockers						
84 in Height						
48 in	18 in	1	1	2	Folding Guard	**482V98**
	18 in	2	2	4	Folding Guard	**482W02**
	30 in	1	1	2	Folding Guard	**482V99**
	30 in	2	2	4	Folding Guard	**482W03**
	36 in	1	1	2	Folding Guard	**482W01**
	36 in	2	2	4	Folding Guard	**482W04**

Single-Tier Starter
Expanded Metal

Single-Tier Starter
Wire Mesh

Bulk Storage Lockers

Hallowell · FOLDING GUARD

- Steel frame construction
- Include padlock hasp
- 90"H

Use for secure storage of large or bulky items in condos, apartments, offices, and other facilities. Metal mesh panels and doors allow air to circulate throughout the locker, preventing buildup of moisture or fumes. Contents are clearly visible from all sides.

Starter units consist of 2 side panels and one door panel with 1 or 2 doors.

Add-on units consist of one side panel and one door panel and are attached to existing units.

Search for "Locker Accessories" on Grainger.com to find top panels, back panels, and shelves to customize your enclosure.

Expanded metal lockers have smaller mesh openings for a more rigid enclosure.

Wire mesh lockers are made with galvanized welded wire and have larger mesh openings to provide better airflow and visibility.

				STARTER		ADD-ON	
W	D	No. of Shelves	Brand	Item No.	No. of Doors	Item No.	No. of Doors
Expanded Metal							
1 Tier							
36 in	36 in	0	Hallowell	**5JML8**	1	**5JML9**	1
	48 in	0	Hallowell	**5JMN0**	1	**5JMN1**	1
	60 in	0	Hallowell	**5JMN2**	1	**5JMN3**	1
48 in	36 in	0	Hallowell	**5JMN4**	1	**5JMN5**	1
	48 in	0	Hallowell	**5JMN6**	1	**5JMN7**	1
	60 in	0	Hallowell	**5JMN8**	1	**5JMN9**	1
2 Tiers							
36 in	36 in	0	Hallowell	**5JMP0**	1	**5JMP1**	2
	48 in	0	Hallowell	**5JMP2**	1	**5JMP3**	2
	60 in	0	Hallowell	**5JMP4**	1	**5JMP5**	2
48 in	36 in	0	Hallowell	**5JMP6**	1	**5JMP7**	2
	48 in	0	Hallowell	**5JMP8**	1	**5JMP9**	2
	60 in	0	Hallowell	**5JMR0**	1	**5JMR1**	2
Wire Mesh							
1 Tier							
36 in	60 in	0	Folding Guard	**8CZ99**	1	**8N102**	1
48 in	36 in	0	Folding Guard	**8UMY2**	1	**8VZD0**	1
	48 in	0	Folding Guard	**8ZG50**	1	**8DDY1**	1
	60 in	0	Folding Guard	**9KED6**	1	**9HYT1**	1
2 Tiers							
48 in	48 in	1	Folding Guard	**9T050**	2	**9R321**	2
	60 in	1	Folding Guard	**8VZD4**	2	**8CZ65**	2

Athletic and Tactical Gear Lockers

- Rugged steel construction

Lockers have large storage compartments that hold bulky protective gear, uniforms, and other equipment. Suitable for personal storage in sporting facilities, firehouses, police stations, and military training facilities.

Open-front ventilated lockers provide easy access and visibility to all items. Ventilated sides.

Modular solid lockers have louvered back panels that accept hooks and other compatible accessories to customize the storage space. Solid doors. Include padlock hasp.

Ventilated lockers have metal mesh door panels. Include padlock hasp.

Open-Front Ventilated Locker

W	D	H	Locker Finish	Color	Includes Footlocker	Includes Security Box	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Firefighter Open-Front Ventilated Lockers									
24 ¾ in	22 in	84 in	Galvanneal	Red	No	No	Hallowell	**30LW41**	—
		84 in	Galvanneal	Red	No	Yes	Hallowell	**30LW43**	—
		86 ¼ in	Galvanneal	Red	No	No	Hallowell	**30LW42**	—
		86 ¼ in	Galvanneal	Red	No	Yes	Hallowell	**30LW44**	—
Modular Solid Lockers									
18 in	36 in	90 in	Powder Coated	Gray	Yes	Yes	Sentinel	**30RT79**	—
24 in		90 in	Powder Coated	Gray	Yes	Yes	Sentinel	**30RT80**	—
Open-Front Ventilated Lockers									
24 in	18 in	72 in	Powder Coated	Blue	No	No	Lyon	**55XR70**	**55XR69**
		72 in	Powder Coated	Blue	Yes	Yes	Lyon	**55XR58**	**55XR57**
		72 in	Powder Coated	Gray	Yes	Yes	Lyon	**55XR11**	**55XR10**
	21 in	72 in	Powder Coated	Blue	No	No	Lyon	**55XR68**	**55XR67**
		72 in	Powder Coated	Blue	Yes	Yes	Lyon	**55XR56**	**55XR55**
		72 in	Powder Coated	Gray	Yes	Yes	Lyon	**55XR09**	**55XR08**
	24 in	72 in	Powder Coated	Blue	Yes	Yes	Lyon	**55XR54**	**55XR53**
		72 in	Powder Coated	Blue	No	No	Lyon	**55XR66**	**55XR65**
		72 in	Powder Coated	Gray	Yes	Yes	Lyon	**55XR07**	**55XR06**
Ventilated Lockers									
24 in	18 in	72 in	Powder Coated	Red	No	No	Lyon	**55XR52**	**55XR51**
		72 in	Powder Coated	Blue	No	No	Lyon	**55XR76**	**55XR75**
	21 in	72 in	Powder Coated	Red	No	No	Lyon	**55XR50**	**55XR49**
		72 in	Powder Coated	Red	Yes	Yes	Lyon	**55VU21**	**55XR38**
		72 in	Powder Coated	Blue	Yes	Yes	Lyon	**55XR62**	**55XR61**
	24 in	72 in	Powder Coated	Red	No	No	Lyon	**55XR48**	**55XR47**
		72 in	Powder Coated	Red	Yes	Yes	Lyon	**55XR37**	**55XR36**
		72 in	Powder Coated	Blue	Yes	Yes	Lyon	**55XR60**	**55XR59**

Mobile-Device Lockers

- Powder-coated finish
- Units are assembled; unassembled units available on Grainger.com

Sized to hold and secure personal electronic devices. Typically installed in offices, hotels, and other public facilities.

Surface-mount lockers can be mounted on a wall or flat surface. Multiple tiers of individual lockers are arranged vertically.

Wiring-ready full-height lockers have built-in channels with knockouts in each locker allowing wire to be run so lockers can serve as charging stations. Multiple tiers of individual lockers securely hold laptops and small electronic devices.

Electronic Keypad locks are battery-operated with a 4-digit code required for access. Can be set to day-use or permanent-use mode. Low battery indicator with mechanical master key override.

Keyed locks come with master keys to access all compartments.

Combination locks are built-in and can be set to a fixed combination or combination can be reset after each use.

Surface-Mount (5) Tier, (5) Wide

Wiring Ready (4) Tier, (3) Wide

Number of Lockers	W	D	H	Opening WxH	Color	Brand	ELECTRONIC KEYPAD Item No.	KEYED Item No.	COMBINATION Item No.
Surface-Mount Metal Cell-Phone Lockers									
(5) Tier, (1) Wide									
5	9 in	12 in	30 ½ in	7 ½ in x 5 ½ in	Gray	Hallowell	**30LW07**	**30LW05**	—
(5) Tier, (3) Wide									
14	24 in	9 ¼ in	31 in	6 ½ in x 5 ¼ in	Bronze	Salsbury Industries	—	**461H77**	**461H76**
			31 in	6 ½ in x 5 ¼ in	Aluminum	Salsbury Industries	—	**53FM89**	**53FM90**
15	27 in	12 in	30 ½ in	7 ½ in x 5 ½ in	Gray	Hallowell	**30LW08**	**30LW06**	—
(5) Tier, (4) Wide									
19	30 ½ in	9 ¼ in	31 in	6 ½ in x 5 ¼ in	Bronze	Salsbury Industries	—	**461J02**	**461J01**
			31 in	6 ½ in x 5 ¼ in	Aluminum	Salsbury Industries	—	**53FM93**	**53FM94**
(5) Tier, (5) Wide									
24	37 in	9 ¼ in	31 in	6 ½ in x 5 ¼ in	Aluminum	Salsbury Industries	—	**53FM97**	**53FM98**
			31 in	6 ½ in x 5 ¼ in	Bronze	Salsbury Industries	—	**461J14**	**461J13**
Wiring-Ready Full-Height Metal Mobile-Device Lockers									
(3) Tier, (3) Wide									
9	45 in	18 in	78 in	12 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW26**	—	—
		21 in	78 in	12 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW28**	—	—
	54 in	18 in	78 in	15 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW30**	—	—
		21 in	78 in	15 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW32**	—	—
(4) Tier, (1) Wide									
3	15 in	18 in	78 in	12 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW25**	—	—
		21 in	78 in	12 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW27**	—	—
	18 in	18 in	78 in	15 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW29**	—	—
		21 in	78 in	15 ¼ in x 22 ¼ in	Gray	Hallowell	**30LW31**	—	—
4	15 in	18 in	78 in	12 ¼ in x 16 ½ in	Gray	Hallowell	**30LW33**	—	—
		21 in	78 in	12 ¼ in x 16 ½ in	Gray	Hallowell	**30LW35**	—	—
	18 in	18 in	78 in	15 ¼ in x 16 ½ in	Gray	Hallowell	**30LW37**	—	—
		21 in	78 in	15 ¼ in x 16 ½ in	Gray	Hallowell	**30LW39**	—	—
(4) Tier, (3) Wide									
12	45 in	18 in	78 in	12 ¼ in x 16 ½ in	Gray	Hallowell	**30LW34**	—	—
		21 in	78 in	12 ¼ in x 16 ½ in	Gray	Hallowell	**30LW36**	—	—
	54 in	18 in	78 in	15 ¼ in x 16 ½ in	Gray	Hallowell	**30LW38**	—	—
		21 in	78 in	15 ¼ in x 16 ½ in	Gray	Hallowell	**30LW40**	—	—

Choosing the Right Strength Storage Cabinet

DUTY RATINGS

Light-Duty
- 22-24 ga.
- Suitable for holding and storing lightweight supplies and equipment in offices or areas where the units are unlikely to be subjected to impact or abuse

Medium-Duty
- 20-24 ga.
- Suitable for storing tools, equipment, and supplies in commercial or industrial settings not generally exposed to rough use

Heavy-Duty
- 16-18 ga.
- For use in industrial facilities for storing heavy tools, equipment, and supplies

Extra-Heavy Duty
- 12-14 ga.
- Bolt together to provide more strength and rigidity
- For use in industrial facilities to hold dies, fixtures, jigs, and other very heavy equipment

Super-Duty
- 12 ga.
- Provide the most strength and rigidity
- For use in industrial facilities to hold heavy tools, fixtures, jigs, and other very heavy equipment

COMMERCIAL CABINETS

Metal cabinets are suitable for offices, apartment buildings, schools, and other areas where they are not likely to be exposed to impacts or other hazards. Typically have light- to medium-duty ratings.

INDUSTRIAL CABINETS

Metal cabinets are fully welded and suitable for warehouses, machine shops, plants, and other areas where they may be exposed to impacts, hazards, or rough conditions. Typically have heavy- to super-duty ratings.

BASE TYPES

Frame Base - Cabinet sits directly on floor or flat surface.

Legs - Raise cabinet above floor level, allowing access beneath the cabinet.

Leveling Base - Integrated levelers compensate for uneven floors to help keep cabinet stable.

Solid Doors
9CUH6

Clearview Doors
K3853
(Contents not included.)

Commercial Stationary Shelf Cabinets

- Assembled
- Adjustable shelves

Metal cabinets have multiple shelves to provide storage and keep supplies and equipment organized. Suitable for offices, apartment buildings, schools, and other commercial areas.

Cabinets with leveling base have integrated levelers that compensate for uneven floors.

Solid doors provide security and conceal contents.

Ventilated doors allow air to circulate and prevent buildup of moisture and fumes. Hallowell cabinets have metal-mesh door panes. Tennsco cabinet has diamond-shaped perforations in the door panels.

Clearview doors have see-through panes that allow visibility to contents.

						SOLID DOORS		VENTILATED DOORS		CLEARVIEW DOORS	
Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	Brand	Item No.	Cabinet Color	Item No.	Cabinet Color	Item No.	Cabinet Color
Medium Duty Cabinets with Swing Handle and Keyed Lock											
4 Shelves											
36 in	18 in	72 in	200 lb	Frame	Sandusky	**9HYT4**	Putty	—	—	—	—
		72 in	150 lb	Frame	—	—	—	**411L76**	Dark Gray	—	—
		72 in	200 lb	Frame	Tennsco	**K3851**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
		78 in	250 lb	Frame	Hallowell	**K3855**	Dark Gray, Tan, Black	**K3856**	Tan, Black	**K3853**	Tan, Black
	24 in	78 in	250 lb	Frame	Hallowell	**K3861**	Dark Gray, Tan, Black	**K3863**	Tan, Black	**K3859**	Tan, Black
48 in	18 in	78 in	250 lb	Frame	Hallowell	**K3866**	Tan, Black, Dark Gray	**K3868**	Tan, Black	**K3864**	Tan, Dark Gray
	24 in	78 in	400 lb	Leveling	Tennsco	**2TET4**	Black	—	—	—	—
		78 in	250 lb	Frame	Hallowell	**K3873**	Tan, Black, Dark Gray	**K3876**	Tan, Black	**K3871**	Tan, Black, Dark Gray
Medium Duty Cabinets with Recessed Pull Handle and Keyed Lock											
4 Shelves											
36 in	24 in	72 in	200 lb	Frame	Sandusky	**9CUH6**	Putty	—	—	—	—
46 in		72 in	200 lb	Frame	Sandusky	**8DEH1**	Putty	—	—	—	—
Medium Duty Cabinets with Recessed Pull Handle and Electronic Keypad Lock											
4 Shelves											
48 in	24 in	78 in	400 lb	Leveling	Tennsco	**K3874**	Black, Light Gray, Medium Gray, Sand	—	—	—	—
Light Duty Cabinets with Swing Handle and Keyed Lock											
3 Shelves											
30 in	15 in	66 in	150 lb	Frame	Sandusky	**K3832**	Light Gray, Putty, Black	—	—	—	—
	18 in	72 in	150 lb	Frame	Sandusky	**K3833**	Dark Gray, Light Gray, Putty, Black	—	—	—	—
36 in	24 in	66 in	150 lb	Frame	—	**411K94**	Tan	—	—	—	—
4 Shelves											
36 in	18 in	60 in	200 lb	Frame	Tennsco	**K3835**	Medium Gray, Putty, Sand, Black, Light Gray	—	—	—	—
		66 in	200 lb	Frame	Tennsco	**K3836**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
		72 in	180 lb	Frame	Sandusky	**9UAK8**	Putty	—	—	—	—
		72 in	200 lb	Frame	Tennsco	—	—	**K3838**	Black, Light Gray, Medium Gray, Putty, Sand	—	—
		78 in	200 lb	Frame	—	**K3840**	Dark Gray, Black, Tan	—	—	—	—
	24 in	60 in	200 lb	Frame	Tennsco	**K3842**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
		66 in	200 lb	Frame	Tennsco	**K3842**	Black, Light Gray, Medium Gray, Sand	—	—	—	—
		72 in	200 lb	Frame	Tennsco	**2TER7**	Black	—	—	—	—
		78 in	200 lb	Frame	—	**K3845**	Dark Gray, Black, Tan	—	—	—	—
Light Duty Cabinets with Swing Handle and Electronic Keypad Lock											
4 Shelves											
36 in	18 in	72 in	150 lb	Frame	—	**411K85**	Black	—	—	—	—
		78 in	200 lb	Frame	—	**411L37**	Tan	—	—	—	—
	24 in	72 in	150 lb	Frame	—	**411K97**	Tan	—	—	—	—
Light Duty Cabinets with Recessed Pull Handle and Keyed Lock											
4 Shelves											
30 in	15 in	66 in	150 lb	Frame	Tennsco	**K3834**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
Light Duty Cabinets with Recessed Pull Handle and Electronic Keypad Lock											
2 Shelves											
36 in	18 in	42 in	200 lb	Frame	Tennsco	**K3830**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
4 Shelves											
36 in	18 in	72 in	200 lb	Frame	Tennsco	**K3837**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—
		78 in	200 lb	Leveling	Tennsco	**K3839**	Black, Light Gray, Medium Gray, Sand	—	—	—	—
	24 in	72 in	200 lb	Frame	Tennsco	**K3843**	Black, Light Gray, Medium Gray, Sand	—	—	—	—
		78 in	200 lb	Leveling	Tennsco	**K3844**	Black, Light Gray, Medium Gray, Putty, Sand	—	—	—	—

Extra-Heavy Duty, Ventilated Doors
1UBL1

Super Duty
4UZ09

DURHAM MFG Est. 1922 StrongHold

Industrial Stationary Shelf Cabinets

- Assembled
- Adjustable shelves
- Swing handle
- Durham cabinets are gray with a powder-coated finish
- StrongHold cabinets are dark gray with a baked enamel finish
- Padlock hasps except as noted

Metal cabinets have multiple shelves to provide storage and keep supplies and equipment organized. Fully welded and suitable for warehouses, machine shops, plants, and other industrial areas.

Solid doors provide security and conceal contents.

Clearview doors have see-through panes that allow visibility to contents.

Ventilated doors have diamond-shaped perforations on the door panels to allow air to circulate and prevent buildup of moisture and fumes.

Overall W x D x H	Load Capacity per Shelf	Base Type	Brand	SOLID Item No.	CLEARVIEW Item No.	VENTILATED Item No.
Heavy Duty						
2 Shelves						
36 in x 18 in x 48 in	1,250 lb	Frame	Durham Mfg	16D675 *	—	—
36 in x 24 in x 42 in	1,000 lb	Frame	Durham Mfg	16D679 *	—	—
3 Shelves						
36 in x 18 in x 60 in	1,250 lb	Frame	Durham Mfg	16D676 *	—	—
4 Shelves						
36 in x 18 in x 72 in	1,250 lb	Frame	Durham Mfg	16D677 *	—	—
36 in x 18 in x 84 in	1,250 lb	Frame	Durham Mfg	16D678 *	—	—
36 in x 24 in x 72 in	1,000 lb	Frame	Durham Mfg	16D680 *	—	—
36 in x 24 in x 84 in	1,000 lb	Frame	Durham Mfg	16D681 *	—	—
48 in x 24 in x 72 in	750 lb	Frame	Durham Mfg	16D682 *	—	—
48 in x 24 in x 78 in	750 lb	Legs	Durham Mfg	16D683 *	—	—
48 in x 24 in x 84 in	750 lb	Legs	Durham Mfg	16D684 *	—	—
60 in x 24 in x 84 in	500 lb	Legs	Durham Mfg	16D685 *	—	—
Extra-Heavy Duty						
2 Shelves						
36 in x 18 in x 48 in	1,250 lb	Frame	Durham Mfg	3NYK9 *	—	—
36 in x 24 in x 42 in	1,000 lb	Frame	Durham Mfg	3NYL5 *	—	3NYK4 *
	1,900 lb	Legs	Durham Mfg	34A981	—	—
36 in x 24 in x 45 in	1,900 lb	Legs	Strong Hold	61KG37	—	—
3 Shelves						
30 in x 24 in x 75 in	1,900 lb	Legs	Strong Hold	61KG25	—	—
36 in x 18 in x 60 in	1,250 lb	Frame	Durham Mfg	3NYL1 *	—	1UBL1 *
36 in x 24 in x 72 in	1,000 lb	Frame	Durham Mfg	3NYL7 *	—	—
	1,900 lb	Legs	Strong Hold	56MX59	—	—
36 in x 24 in x 75 in	1,900 lb	Legs	Strong Hold	276ZJ0	—	—
36 in x 24 in x 84 in	1,000 lb	Frame	Durham Mfg	3NYN1 *	—	3NYK6 *
48 in x 18 in x 72 in	750 lb	Frame	Durham Mfg	—	—	1UBL4 *
48 in x 24 in x 72 in	750 lb	Frame	Durham Mfg	3NYN3 *	—	3NYK7 *
	1,200 lb	Legs	Strong Hold	56MX60	—	—
48 in x 24 in x 75 in	1,200 lb	Legs	Strong Hold	276ZJ4	61KG27	—
48 in x 24 in x 78 in	600 lb	Legs	Strong Hold	—	—	40V656
60 in x 24 in x 72 in	1,650 lb	Legs	Strong Hold	56MX61	—	—
60 in x 24 in x 75 in	1,650 lb	Legs	Strong Hold	276ZJ7	61KG28	—
72 in x 24 in x 78 in	600 lb	Legs	Strong Hold	—	—	40V658
4 Shelves						
36 in x 18 in x 72 in	1,250 lb	Frame	Durham Mfg	3NYL2 *	—	1UBL2 *
36 in x 18 in x 84 in	1,250 lb	Frame	Durham Mfg	3NYL4 *	—	1UBL3 *
36 in x 24 in x 72 in	1,000 lb	Frame	Durham Mfg	3NYL6 *	—	3NYK5 *
36 in x 24 in x 78 in	1,200 lb	Legs	Durham Mfg	34A982	—	—
48 in x 24 in x 72 in	750 lb	Frame	Durham Mfg	3NYN2 *	—	—
48 in x 24 in x 78 in	750 lb	Legs	Durham Mfg	3NYN5 *	—	—
	1,200 lb	Legs	Durham Mfg	34A983	—	—
60 in x 24 in x 78 in	1,650 lb	Legs	Durham Mfg	34A984	—	—

Overall W x D x H	Load Capacity per Shelf	Base Type	Brand	SOLID Item No.	CLEARVIEW Item No.	VENTILATED Item No.
Super Duty						
2 Shelves						
24 in x 20 in x 36 in	1,900 lb	Legs	Strong Hold	2RNE4	—	—
	1,900 lb	Frame	Strong Hold	1UBV3	—	—
36 in x 14 in x 48 in	1,900 lb	Frame	Durham Mfg	410Y49	—	—
36 in x 18 in x 30 in	1,900 lb	Legs	Strong Hold	40V591	—	—
36 in x 20 in x 36 in	1,900 lb	Frame	Durham Mfg	34A938	34A964	—
	1,900 lb	Frame	Strong Hold	1UBV4	—	—
36 in x 20 in x 42 in	1,900 lb	Frame	Durham Mfg	34A939	34A965	—
	1,900 lb	Frame	Strong Hold	1UBV5	—	—
36 in x 24 in x 36 in	1,900 lb	Frame	Durham Mfg	34A940	34A966	—
	1,900 lb	Frame	Strong Hold	1UBV6	—	—
36 in x 24 in x 42 in	1,900 lb	Frame	Durham Mfg	34A941	34A967	—
	1,900 lb	Frame	Strong Hold	1UBV7	—	—
48 in x 24 in x 36 in	1,200 lb	Frame	Strong Hold	10A001	—	—
48 in x 24 in x 42 in	1,200 lb	Legs	Strong Hold	2RNE9	—	—
	1,200 lb	Frame	Durham Mfg	34A942	34A968	—
	1,900 lb	Frame	Strong Hold	1UBV8	—	—
3 Shelves						
36 in x 24 in x 60 in	1,900 lb	Legs	Strong Hold	2RNC1	—	—
36 in x 24 in x 66 in	1,900 lb	Legs	Durham Mfg	34A953	—	—
36 in x 30 in x 60 in	1,900 lb	Legs	Strong Hold	16A387	—	—
36 in x 36 in x 60 in	1,900 lb	Legs	Strong Hold	16A395	—	—
48 in x 24 in x 60 in	1,200 lb	Legs	Strong Hold	2RNC2	—	—
48 in x 24 in x 66 in	1,200 lb	Legs	Strong Hold	1UBW3	—	—
	1,200 lb	Legs	Durham Mfg	16D692	34A946	—
48 in x 30 in x 60 in	1,200 lb	Legs	Strong Hold	16A389	—	—
48 in x 36 in x 60 in	1,200 lb	Legs	Strong Hold	16A397	—	—
60 in x 24 in x 60 in	1,650 lb	Legs	Strong Hold	2RNC3	—	—
60 in x 24 in x 66 in	1,650 lb	Legs	Durham Mfg	34A954	—	—
60 in x 30 in x 60 in	1,650 lb	Legs	Strong Hold	16A391	—	—
60 in x 36 in x 60 in	1,650 lb	Legs	Strong Hold	16A399	—	—
72 in x 24 in x 60 in	1,525 lb	Legs	Strong Hold	2RNC4	—	—
72 in x 24 in x 66 in	1,525 lb	Legs	Durham Mfg	34A955	—	—
72 in x 30 in x 60 in	1,525 lb	Legs	Strong Hold	16A393	—	—
72 in x 36 in x 60 in	1,525 lb	Legs	Strong Hold	16A402	—	—
4 Shelves						
36 in x 16 in x 78 in	1,900 lb	Legs	Strong Hold	40V992	—	—
36 in x 18 in x 78 in	1,750 lb	Legs	Durham Mfg	16D690	—	—
36 in x 20 in x 78 in	1,900 lb	Legs	Strong Hold	5ZH07	—	—
	1,900 lb	Legs	Durham Mfg	34A979	—	—
36 in x 24 in x 78 in	1,900 lb	Legs	Strong Hold	40V585	—	1UBU9
	1,900 lb	Legs	Strong Hold	4UZ08	—	40V665
	1,900 lb	Legs	Durham Mfg	16D691	—	34A934
36 in x 30 in x 72 in	1,900 lb	Legs	Strong Hold	16A388	—	—
36 in x 36 in x 72 in	1,900 lb	Legs	Strong Hold	16A396	—	—
48 in x 24 in x 72 in	1,200 lb	Legs	Strong Hold	—	56MX57	—
48 in x 24 in x 78 in	1,200 lb	Legs	Strong Hold	4UZ09	1UBW4	1UBV1
	1,200 lb	Legs	Durham Mfg	16D693	34A947	34A935
	1,200 lb	Legs	Strong Hold	48UH60	40V626	—
	1,400 lb	Legs	Strong Hold	40V985	—	—
48 in x 30 in x 72 in	1,200 lb	Legs	Strong Hold	16A390	—	—
48 in x 36 in x 72 in	1,200 lb	Legs	Strong Hold	16A398	—	—
60 in x 24 in x 72 in	1,650 lb	Legs	Strong Hold	4UZ10	56MX58	—
60 in x 24 in x 78 in	1,650 lb	Legs	Strong Hold	1UBW5	—	1UBV2
	1,650 lb	Legs	Durham Mfg	16D694	34A948	34A936
60 in x 30 in x 72 in	1,650 lb	Legs	Strong Hold	16A392	—	—
60 in x 36 in x 72 in	1,650 lb	Legs	Strong Hold	16A401	—	—
72 in x 24 in x 72 in	1,525 lb	Legs	Strong Hold	5ZH10	—	—
72 in x 24 in x 78 in	1,525 lb	Legs	Durham Mfg	16D695	—	—
	1,525 lb	Legs	Strong Hold	—	—	40V670
72 in x 30 in x 72 in	1,525 lb	Legs	Strong Hold	16A394	—	—
72 in x 36 in x 72 in	1,525 lb	Legs	Strong Hold	16A403	—	—

** Keyed lock.*

Ventilated Door 34A458

Hallowell

Antimicrobial Commercial Stationary Shelf Cabinets

- 4 adjustable shelves
- Keyed lock
- Light gray
- Frame base

Cabinets are treated to prevent the growth of mold, mildew, and other microbes, which helps keep the cabinets clean.

Ventilated doors have metal-mesh door panes which allow air to circulate and prevent buildup of moisture and fumes. Contents are visible to aid in loss prevention and inventory management.

Clearview doors have see-through panes which allow full visiblity to contents.

Solid doors conceal contents.

				VENTILATED		CLEARVIEW		SOLID	
Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Assembled Item No.	Unassembled Item No.	Assembled Item No.	Unassembled Item No.	Assembled Item No.	Unassembled Item No.
36 in	18 in	78 in	250 lb	**34A458**	**34A422**	**34A457**	**34A421**	**6MPA0**	**6MNY2**
	24 in	78 in	250 lb	**34A460**	**34A424**	**34A459**	**34A423**	**6MPA1**	**6MNY3**
48 in	18 in	78 in	250 lb	**34A474**	**34A438**	**34A473**	**34A437**	**34A472**	**34A436**
	24 in	78 in	250 lb	**34A477**	**34A441**	—	**34A440**	**34A475**	**34A439**

Heavy Duty 1YHH2

Super Duty 2RND7

Hallowell Jamco Products StrongHold

Corrosion-Resistant Industrial Stationary Shelf Cabinets

- Adjustable shelves
- Assembled
- **Include padlock hasp, unless indicated.**

Cabinets resist rusting when used in areas exposed to moisture or high humidity. Suitable for warehouses, machine shops, plants, and other industrial areas. Hallowell cabinets are galvannealed steel. Jamco and StrongHold cabinets are stainless steel.

Solid doors conceal contents.

Clearview doors have see-through panes which allow full visiblity to contents.

Ventilated doors are perforated to allow air to circulate and prevent buildup of moisture and fumes.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Panel Material Thickness	Base Type	Cabinet Color	Brand	SOLID Item No.	VENTILATED Item No.	CLEARVIEW Item No.
Heavy Duty											
2	36 in	18 in	37 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA32** *	—	—
		21 in	42 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH1**	—	—
		24 in	37 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA34** *	—	—
	48 in	24 in	37 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA35** *	—	—
3	36 in	18 in	61 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA36** *	—	—
		21 in	60 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH2**	—	—
		24 in	61 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA38** *	—	—
	48 in	24 in	60 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH5**	—	—
		24 in	61 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA39** *	—	—
4	36 in	18 in	73 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA40** *	—	—
		21 in	78 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH3**	—	—
		24 in	73 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA42** *	—	—
		24 in	78 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH4**	—	—
	48 in	24 in	73 in	400 lb	18 ga	Not Applicable	Gray	Jamco	**23PA43** *	—	—
		24 in	78 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH6**	—	—
	60 in	24 in	78 in	1,000 lb	16 ga	Frame	Dark Gray	Hallowell	**1YHH7**	—	—
Extra-Heavy Duty											
2	36 in	21 in	42 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHJ5**	—	—
3		21 in	60 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHJ6**	—	—
	48 in	24 in	60 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHJ9**	—	—
4	36 in	21 in	78 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHJ7**	—	—
		24 in	78 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHJ8**	—	—
	48 in	24 in	78 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHK1**	—	—
	60 in	24 in	78 in	1,450 lb	14 ga	Frame	Dark Gray	Hallowell	**1YHK2**	—	—
Super Duty											
3	36 in	24 in	66 in	1,900 lb	12 ga	Legs	Silver	Strong Hold	**1UCC6**	—	—
	48 in	24 in	66 in	1,200 lb	12 ga	Legs	Silver	Strong Hold	**1UCC7**	—	**1UCD1**
4	36 in	20 in	78 in	1,900 lb	12 ga	Legs	Silver	Strong Hold	**2RND4**	—	—
		24 in	78 in	1,900 lb	12 ga	Legs	Silver	Strong Hold	**2RND5**	**1UCD4**	—
	48 in	24 in	78 in	1,200 lb	12 ga	Legs	Silver	Strong Hold	**2RND6**	—	**1UCD2**
	60 in	24 in	78 in	1,650 lb	12 ga	Legs	Silver	Strong Hold	—	**1UCD6**	**1UCD3**
8		24 in	78 in	825 lb	12 ga	Legs	Silver	Strong Hold	**2RND7**	—	—

*** Keyed.**

DENIOS THE HAZMAT PRO

Spill-Control Industrial Ventilated Shelf Cabinets

4UEA7

- Adjustable shelves
- Padlock hasp lock
- Frame base
- Assembled

Corrosion-resistant galvanized shelf pans have a lip to contain liquids if a stored item leaks. Steel open-cage design allows air to fully circulate to prevent buildup of moisture and fumes, as well as allowing visibility to contents from all sides. Can be padlocked for restricted access to hazardous chemicals or materials.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Cabinet Color	Item No.
4	38 in	28 in	87 in	250 lb	Blue	**4UEA7**
8	74 in	28 in	87 in	250 lb	Blue	**4UEA8**

Quick-Assemble Commercial Shelf Cabinets

F8667

- Adjustable shelves
- Keyed lock
- Solid doors with swing handle

Assembly is quick and easy with no bolts or special tools required. Suitable for offices, apartment buildings, schools, and other commercial facilities.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	▶CHOOSE: Cabinet Color	Item No.
Light Duty						
1	36 in	18 in	30 in	150 lb	Gray, Black	**F8663**
2		18 in	42 in	150 lb	Gray, Black	**F8662**
3	30 in	15 in	66 in	175 lb	Gray	**F8660**
4	36 in	18 in	72 in	150 lb	Gray, Black	**F8667**
		18 in	72 in	175 lb	Gray	**F8645**
		18 in	78 in	150 lb	Gray	**F8670**
		18 in	78 in	175 lb	Tan, Gray	**F8672**
		24 in	72 in	200 lb	Black	**F8666**
	48 in	18 in	78 in	175 lb	Gray	**F8655**
Medium Duty						
4	36 in	18 in	78 in	150 lb	Gray, Black	**F8702**

tennsco Storage Made Easy | StrongHold | DURHAM MFG Est. 1922

Industrial Shelf Cabinets with Drawers

- Adjustable shelves
- Doors have swing handles
- Assembled

Metal stationary cabinets have drawers to hold small or loose items, in addition to multiple shelves for storage. Sturdy cabinets are fully welded and assembled and are suitable for warehouses, machine shops, plants, and other areas where they may be exposed to impacts and other hazards.

Light duty cabinets have a powder-coated finsh, frame base, and keyed lock.

Extra-heavy duty cabinets have a baked enamel finish, leg base, and padlock hasp.

Super duty cabinets have a leg base and padlock hasp. StrongHold cabinets have a baked enamel finish; Durham cabinets have a powder-coated finish.

39FP77

40V618

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	No. of Drawers	Panel Material Thickness	Door Type	Cabinet Color	Brand	Item No.
Light Duty										
2	36 in	18 in	72 in	200 lb	2	24 ga	Solid	Sand	Tennsco	**39FP77**
		18 in	72 in	200 lb	2	24 ga	Solid	Gray	Tennsco	**39FP78**
Extra-Heavy Duty										
1	60 in	24 in	75 in	1,650 lb	6	14 ga	Solid	Gray	Strong Hold	**276ZK3**
4	36 in	24 in	75 in	1,900 lb	7	14 ga	Solid	Gray	Strong Hold	**276ZK0**
	48 in	24 in	75 in	1,900 lb	7	14 ga	Solid	Gray	Strong Hold	**276ZK1**
		24 in	75 in	1,200 lb	6	14 ga	Solid	Gray	Strong Hold	**276ZK2**
Super Duty										
1	36 in	24 in	78 in	1,900 lb	8	12 ga	Solid	Gray	Durham Mfg	**34A952**
2		24 in	78 in	1,900 lb	7	12 ga	Solid	Gray	Durham Mfg	**34A951**
3		24 in	78 in	1,900 lb	3	12 ga	Solid	Gray	Durham Mfg	**34A949**
		24 in	78 in	1,900 lb	4	12 ga	Solid	Dark Gray	Strong Hold	**40V605**
		24 in	78 in	1,900 lb	5	12 ga	Solid	Dark Gray	Strong Hold	**40V604**
	48 in	24 in	78 in	1,200 lb	6	12 ga	Solid	Gray	Durham Mfg	**34A943**
4	36 in	24 in	78 in	1,900 lb	3	12 ga	Solid	Gray	Durham Mfg	**34A950**
	48 in	24 in	78 in	600 lb	6	12 ga	Clearview	Dark Gray	Strong Hold	**40V628**
	60 in	24 in	78 in	825 lb	6	12 ga	Clearview	Dark Gray	Strong Hold	**40V629**
		24 in	78 in	1,650 lb	6	12 ga	Solid	Gray	Durham Mfg	**34A944**
	72 in	24 in	78 in	1,525 lb	6	12 ga	Solid	Gray	Durham Mfg	**34A945**
5	60 in	36 in	66 in	1,650 lb	4	12 ga	Solid	Dark Gray	Strong Hold	**40V998**
6		24 in	78 in	1,650 lb	7	12 ga	Solid	Dark Gray	Strong Hold	**40V618**

DURHAM MFG Est. 1922 · LITTLE GIANT

Industrial Shelf Cabinets with Pegboards

410Y42

- Adjustable shelves
- Gray powder-coated finish
- Assembled

Metal stationary cabinets have multiple shelves for storage, as well as interior pegboards that accept hooks and other accessories to create custom storage and easy access for a variety of items. Sturdy cabinets are fully welded and assembled and are suitable for warehouses, machine shops, plants, and other areas where cabinets may be exposed to impacts and other hazards.

Extra-heavy duty cabinet has ventilated metal-mesh door panes which allow air to circulate and prevent buildup of moisture and fumes. Contents are visible to aid in loss prevention and inventory management. **Super duty** cabinets have solid doors that hide the contents of cabinets when closed.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Panel Material Thickness	Base Type	Door Type	Lock Type	Brand	Item No.
Extra-Heavy Duty										
2	48 in	24 in	72 in	750 lb	14 ga	Frame	Ventilated	Keyed	Durham Mfg	**3NYP2**
Super Duty										
2	48 in	24 in	78 in	1,000 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y43**
		30 in	78 in	1,200 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y47**
	60 in	24 ¼ in	78 in	1,500 lb	12 ga	Legs	Solid	Padlock Hasp	Little Giant	**34AV24**
		30 ¼ in	78 in	1,500 lb	12 ga	Legs	Solid	Keyed	Little Giant	**34AV26**
3	48 in	24 in	78 in	1,000 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y44**
	60 in	24 ¼ in	78 in	1,500 lb	12 ga	Legs	Solid	Padlock Hasp	Little Giant	**34AV32**
		30 in	78 in	1,650 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y48**
4	36 in	24 in	78 in	1,900 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**34A975**
		24 in	78 in	1,750 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y42**
	48 in	24 in	78 in	1,200 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**34A976**
		24 in	78 in	1,000 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y45**
	60 in	24 in	78 in	1,650 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**34A977**
		24 in	78 in	750 lb	12 ga	Legs	Solid	Padlock Hasp	Durham Mfg	**410Y46**

Solid Doors
2RND1
(Contents not included.)

Vented Door
34A960

StrongHold · DURHAM MFG Est. 1922

Outdoor Industrial Shelf Cabinets

- Adjustable shelves
- Padlock hasp locks
- Swing handle
- 12 ga. steel construction
- 6"H leg base

Cabinets have a gasketed seal on the door frame to keep dirt and water out. Sloped top prevents dirt and water from collecting on surface. Cabinets are fully welded and assembled. Suitable for areas that may be exposed to weather or other harsh conditions. Cabinets with vented doors have filtered vents that allow air circulation while keeping out moisture and dust.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Door Type	Cabinet Color	Brand	Item No.
4	36"	24 in	78 in	1,900 lb	Solid	Silver	Strong Hold	**2RND1**
	36½"	24 in	78 in	1,900 lb	Vented	Gray	Durham Mfg	**34A960**
	48"	24 in	78 in	1,200 lb	Solid	Silver	Strong Hold	**2RND2**
	48½"	24 in	78 in	1,200 lb	Vented	Gray	Durham Mfg	**34A961**
	60"	24 in	78 in	1,650 lb	Solid	Silver	Strong Hold	**2RND3**
	60½"	24 in	78 in	1,650 lb	Vented	Gray	Durham Mfg	**34A962**

Extra-Heavy Duty
3NYJ8

Super Duty
16A407

DURHAM MFG Est. 1922 · StrongHold

Tight Clearance Industrial Shelf Cabinets

- Adjustable shelves
- Assembled

Steel cabinets have doors that require less clearance to open than standard cabinet doors, making them ideal for tight spaces. Cabinets are fully welded and assembled.

Extra-heavy duty cabinets have a space-saving design with bifold doors and fold-down handles. Powder-coated finish.

Super duty cabinets have a roll-up door with a built-in lock to keep items secure. Legs are 6"H. Baked enamel finish.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	Door Type	Lock Type	Cabinet Color	Brand	Item No.
Extra-Heavy Duty										
3	36 in	18 in	72 in	1,250 lb	Frame	Bi-Fold	Padlock Hasp	Gray	Durham Mfg	**3NYJ8**
		24 in	72 in	1,000 lb	Frame	Bi-Fold	Padlock Hasp	Gray	Durham Mfg	**3NYK1**
4		18 in	84 in	1,250 lb	Frame	Bi-Fold	Padlock Hasp	Gray	Durham Mfg	**3NYJ9**
		24 in	84 in	1,000 lb	Frame	Bi-Fold	Padlock Hasp	Gray	Durham Mfg	**3NYK2**
Super Duty										
4	36 in	24 in	78 in	1,900 lb	Legs	Roll Up	Keyed	Dark Gray	Strong Hold	**16A407**
	48 in	24 in	78 in	1,200 lb	Legs	Roll Up	Keyed	Dark Gray	Strong Hold	**16A408**
	60 in	24 in	78 in	1,900 lb	Legs	Roll Up	Keyed	Dark Gray	Strong Hold	**16A409**

Antimicrobial Commercial Cabinet 34A480

Industrial Cabinet 40V661

Industrial Cabinet w/Drawers 40V902 (Contents not included.)

Mobile Shelf Cabinets

Hallowell · tennsco Storage Made Easy · Sandusky · StrongHold

- Adjustable shelves
- Commercial cabinets have 4 swivel casters
- Industrial cabinets have 2 rigid and 2 swivel casters
- Cabinets with drawers have 7 drawers

Casters allow cabinets to be easily moved to any area needed. Ideal for facilities where supplies are used in multiple locations or floor plans frequently change. Shelves provide flat storage and keep items organized. **Solid** doors hide the contents of cabinets when closed. **Ventilated** doors allow air to circulate to prevent buildup of moisture and fumes. **Clearview** doors have clear panels that allow visibility to contents of the cabinet.

Antimicrobial cabinets are treated to prevent the growth of mold, mildew, and other microbes.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Lock Type	Cabinet Color	Brand	SOLID Assembled Item No.	SOLID Unassembled Item No.	VENTILATED Assembled Item No.	VENTILATED Unassembled Item No.	CLEARVIEW Assembled Item No.	CLEARVIEW Unassembled Item No.
Antimicrobial Commercial Mobile Shelf Cabinets													
4	36 in	24 in	78 in	250 lb	Keyed	Light Gray	Hallowell	**34A461**	**34A425**	**34A463**	**34A427**	—	—
	48 in	24 in	78 in	250 lb	Keyed	Light Gray	Hallowell	**34A478**	**34A442**	**34A480**	**34A444**	**34A479**	**34A443**
Commercial Mobile Shelf Cabinets													
2	36 in	24 in	78 in	230 lb	Keyed	Putty	Sandusky	**9EVR6**	—	—	—	—	—
	46 in	24 in	78 in	230 lb	Keyed	Putty	Sandusky	**8DYK6**	—	—	—	—	—
4	36 in	24 in	73 in	200 lb	Keyed	Black, Light Gray, Medium Gray, Putty, Sand	Tennsco	**K4834**	—	—	—	—	—
		24 in	78 in	250 lb	Keyed	Tan, Black	Hallowell	**K4835**	**K4836**	**K4839**	**K4840**	**K4837**	**K4838**
	48 in	24 in	78 in	250 lb	Keyed	Tan, Black	Hallowell	**K4841**	**K4842**	**K4845**	**K4846**	**K4843**	**K4844**
Industrial Mobile Shelf Cabinets													
2	24 in	20 in	44 in	1,900 lb	Padlock Hasp	Dark Gray	Strong Hold	**40V592**	—	—	—	—	—
	36 in	20 in	42 in	1,900 lb	Padlock Hasp	Dark Gray	Strong Hold	**40V880**	—	—	—	—	—
		20 in	44 in	1,900 lb	Padlock Hasp	Dark Gray	Strong Hold	**40V593**	—	—	—	—	—
3		24 in	68 in	1,900 lb	Keyed	Gray	Strong Hold	—	—	—	—	**56MX55**	—
	48 in	24 in	60 in	1,200 lb	Keyed	Gray	Strong Hold	—	—	—	—	**56MX56**	—
		24 in	67 in	1,200 lb	Padlock Hasp	Dark Gray	Strong Hold	—	—	**40V659**	—	—	—
	60 in	24 in	67 in	1,650 lb	Padlock Hasp	Dark Gray	Strong Hold	—	—	**40V660**	—	—	—
	72 in	24 in	67 in	1,525 lb	Padlock Hasp	Dark Gray	Strong Hold	—	—	**40V661**	—	—	—
Industrial Mobile Shelf Cabinets with Drawers													
2	36 in	24 in	67 ¾ in	1,900 lb	Padlock Hasp	Dark Gray	Strong Hold	**40V899**	—	—	—	—	—
	60 in	24 in	67 ¾ in	1,650 lb	Padlock Hasp	Dark Gray	Strong Hold	**40V902**	—	—	—	—	—

K4847

Sandusky

Mobile Commercial Wardrobe Cabinets

- Adjustable shelves
- 4 swivel casters
- Solid doors
- Keyed lock

Cabinets have a horizontal rod for hanging coats, uniforms, and other apparel. Full width shelves above the rod provide storage for hats or other items.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Cabinet Color	Item No.
1	46 in	24 in	72 in	230 lb	Light Gray	**9LAX2**
3	36 in	24 in	72 in	200 lb	Putty	**K4847**
		24 in	78 in	200 lb	Dark Gray, Light Gray, Black	**K4847**
	46 in	24 in	72 in	230 lb	Putty	**8EEA7**

Antimicrobial, Ventilated Door
34A429

Open-Front Cabinet
K3938

Stationary Wardrobe Cabinets

- 1 adjustable shelf
- Swing handle
- Commercial cabinets have a keyed lock
- Industrial cabinets have a padlock hasp

Cabinets have a horizontal rod for hanging coats, uniforms, and other apparel. Full width shelf above the rod provides storage for hats or other items. Cabinets with leveling base have integrated levelers to compensate for uneven floors.

Antimicrobial cabinets are treated to prevent the growth of mold, mildew, and other microbes, helping to keep cabinets clean.

Open front cabinets have no doors, allowing full visibility and easy access to all stored items.

Solid doors provide security and conceal contents.

Clearview doors have see-through panes that allow visibility to contents.

Ventilated doors allow air to circulate and prevent buildup of moisture and fumes. Hallowell cabinets have metal-mesh door panes. StrongHold cabinets have perforated door, side, and back panels for maximum air circulation.

							SOLID		VENTILATED		CLEARVIEW	
Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	▶CHOOSE: Cabinet Color	Brand	Assembled Item No.	Unassembled Item No.	Assembled Item No.	Unassembled Item No.	Assembled Item No.	Unassembled Item No.
Antimicrobial Commercial Wardrobe Cabinets												
Medium Duty												
36 in	18 in	78 in	250 lb	Frame	Light Gray	Hallowell	6MPA2	6MNY4	34A465	34A429	34A464	34A428
	24 in	78 in	250 lb	Frame	Light Gray	Hallowell	6MPA3	6MNY5	34A467	34A431	34A466	34A430
48 in	18 in	78 in	250 lb	Frame	Light Gray	Hallowell	34A481	34A445	34A483	34A447	34A482	34A446
	24 in	78 in	250 lb	Frame	Light Gray	Hallowell	34A484	34A448	34A486	34A450	34A485	34A449
Commercial Wardrobe Cabinets												
Light Duty												
36 in	18 in	72 in	150 lb	Frame	Sand, Black, Light Gray, Medium Gray, Putty	Tennsco	K3911	—	—	—	—	—
	18 in	78 in	150 lb	Frame	Tan	—	411L11	—	—	—	—	—
	18 in	78 in	200 lb	Frame	Black, Tan	—	K3912	—	—	—	—	—
	18 in	78 in	200 lb	Frame	Dark Gray, Black	—	—	K3913	—	—	—	—
	24 in	72 in	200 lb	Frame	Black	Hallowell	—	—	—	—	411L61	—
	24 in	72 in	150 lb	Frame	Tan	—	411L12	—	—	—	—	—
	24 in	72 in	150 lb	Frame	Black, Light Gray, Medium Gray	Tennsco	K3914	—	—	—	—	—
	24 in	72 in	200 lb	Leveling	Black, Light Gray, Medium Gray, Putty, Sand	Tennsco	—	K3915	—	—	—	—
	24 in	78 in	150 lb	Frame	Tan	—	411L13	—	—	—	—	—
	24 in	78 in	200 lb	Frame	Dark Gray, Black, Tan	—	K3916	K3917	—	—	—	—
Medium Duty												
36 in	18 in	78 in	250 lb	Frame	Tan, Dark Gray	Hallowell	—	—	—	—	—	K4168
	18 in	78 in	250 lb	Frame	Black, Tan	Hallowell	K3919	K3922	K3920	K3923	K3921	—
	18 in	78 in	150 lb	Leveling	Medium Gray	Tennsco	F0308	—	—	—	—	—
	24 in	78 in	250 lb	Frame	Black, Tan	Hallowell	K3924	K4171	K4172	K4173	K4169	K4170
	24 in	78 in	200 lb	Leveling	Putty	Tennsco	F0309	—	—	—	—	—
48 in	18 in	78 in	250 lb	Frame	Black, Tan	Hallowell	K3925	K3928	K3926	—	K3927	K3930
	18 in	78 in	250 lb	Frame	Black, Tan	Hallowell	—	—	—	K3929	—	—
	24 in	78 in	250 lb	Frame	Tan	Hallowell	—	—	—	—	—	34A304
	24 in	78 in	250 lb	Frame	Black, Tan	Hallowell	K3931	K3934	K3932	K3935	K3933	—
Industrial Wardrobe Cabinets												
Extra-Heavy Duty												
36 in	24 in	75 in	1,900 lb	Legs	Gray	Strong Hold	276ZK7	—	—	—	—	—
48 in	24 in	75 in	1,200 lb	Legs	Gray	Strong Hold	276ZK8	—	—	—	—	—
60 in	24 in	75 in	1,650 lb	Legs	Gray	Strong Hold	276ZK9	—	—	—	—	—
Super Duty												
36 in	24 in	78 in	1,900 lb	Legs	Dark Gray	Strong Hold	5KAZ0	—	—	—	—	—
48 in	24 in	66 in	1,200 lb	Legs	Dark Gray	Strong Hold	40V748	—	—	—	—	—
	24 in	78 in	1,200 lb	Legs	Dark Gray	Strong Hold	5KAZ1	—	40V653	—	—	—
60 in	24 in	66 in	1,650 lb	Legs	Dark Gray	Strong Hold	40V749	—	—	—	—	—
	24 in	78 in	1,650 lb	Legs	Dark Gray	Strong Hold	5KAZ2	—	40V654	—	—	—
72 in	24 in	78 in	1,525 lb	Legs	Dark Gray	Strong Hold	—	—	40V655	—	—	—

							NO DOOR
Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	▶CHOOSE: Cabinet Color	Brand	Assembled Item No.
Commercial Open-Front Wardrobe Cabinets							
Light Duty							
36 in	18 in	72 in	200 lb	Frame	Light Gray, Medium Gray, Putty, Sand, Black	Tennsco	K3936
	24 in	72 in	200 lb	Frame	Medium Gray, Black, Light Gray, Putty, Sand	Tennsco	K3937
Medium Duty							
48 in	18 in	78 in	400 lb	Leveling	Black, Light Gray, Medium Gray, Sand, Putty	Tennsco	K3938
	24 in	78 in	400 lb	Leveling	Light Gray, Medium Gray, Black	Tennsco	K3939

Industrial Cabinet
3THP7

Industrial Cabinet
w/Drawers &
Pegboard
410Y39

No. of Shelves	No. of Drawers	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	Door Type	▶CHOOSE: Cabinet Color	Brand	ASSEMBLED Item No.	UNASSEMBLED Item No.
Commercial Combination Cabinets											
Medium Duty Cabinets with Swing Handle & Keyed Lock											
4	—	36 in	18 in	78 in	250 lb	Frame	Solid	Tan, Black	Hallowell	**K4181**	**K4182**
	—		24 in	78 in	250 lb	Frame	Solid	Dark Gray, Tan, Black	Hallowell	**K4186**	—
	—		24 in	78 in	250 lb	Frame	Solid	Tan, Black	Hallowell	—	**K4187**
	—	48 in	18 in	78 in	250 lb	Frame	Solid	Tan, Black	Hallowell	**K4192**	**K4193**
	—		24 in	78 in	250 lb	Frame	Solid	Tan, Black, Dark Gray	Hallowell	**K4196**	**K4197**
	—		24 in	78 in	250 lb	Frame	Ventilated	Tan	Hallowell	—	**K4199**
Corrosion-Resistant Industrial Combination Cabinets											
Heavy Duty Cabinets with Swing Handle & Padlock Hasp Lock											
4	—	36 in	24 in	78 in	1,000 lb	Frame	Solid	Dark Gray	Hallowell	**1YHH8**	—
	—	48 in	24 in	78 in	1,000 lb	Frame	Solid	Dark Gray	Hallowell	**1YHH9**	—
	—	60 in	24 in	78 in	1,000 lb	Frame	Solid	Dark Gray	Hallowell	**1YHJ1**	—
Extra-Heavy Duty Cabinets with Swing Handle & Padlock Hasp Lock											
4	—	36 in	24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHK3**	—
	—	48 in	24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHK4**	—
	—	60 in	24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHK5**	—
Industrial Combination Cabinets											
Heavy Duty Cabinets with Swing Handle & Padlock Hasp Lock											
4	—	36 in	24 in	78 in	1,000 lb	Frame	Solid	Dark Gray	Hallowell	**1YHE7**	—
	—	48 in	24 in	78 in	1,000 lb	Frame	Solid	Dark Gray	Hallowell	**1YHE8**	—
Super Duty Cabinets with Swing Handle & Padlock Hasp Lock											
2	7	48 in	24 in	78 in	500 lb	Legs	Solid	Gray	Strong Hold	**40V745** *	—
3	7	36 in	24 in	78 in	950 lb	Legs	Solid	Gray	Durham Mfg	**34A972**	—
	7	48 in	24 in	78 in	2,000 lb	Legs	Solid	Gray	Durham Mfg	**34A973**	—
	7	60 in	24 in	78 in	1,200 lb	Legs	Solid	Gray	Durham Mfg	**410Y51**	—
	4		24 in	78 in	675 lb	Legs	Solid	Dark Gray	Strong Hold	**40V740**	—
	7	—	24 in	78 in	975 lb	Legs	Solid	Dark Gray	Strong Hold	**3THR3**	—
	7		24 in	78 in	700 lb	Legs	Solid	Dark Gray	Strong Hold	**3THR2**	—
	7		24 in	78 in	1,150 lb	Legs	Solid	Dark Gray	Strong Hold	**3THR1**	—
4	—	48 in	24 in	66 in	500 lb	Legs	Solid	Dark Gray	Strong Hold	**40V731**	—
	4		24 in	78 in	800 lb	Legs	Solid	Gray	Durham Mfg	**410Y50**	—
	—	60 in	24 in	66 in	675 lb	Legs	Solid	Dark Gray	Strong Hold	**40V732**	—
	4	—	24 in	78 in	700 lb	Legs	Solid	Dark Gray	Strong Hold	**40V738**	—
5	—	36 in	24 in	78 in	950 lb	Frame	Solid	Gray	Durham Mfg	**34A969**	—
	—		24 in	78 in	750 lb	Legs	Solid	Dark Gray	Strong Hold	**3THP7**	—
	—	48 in	24 in	78 in	2,000 lb	Frame	Solid	Gray	Durham Mfg	**34A970**	—
	—		24 in	78 in	500 lb	Legs	Solid	Dark Gray	Strong Hold	**3THP8**	—
	—	60 in	24 in	78 in	1,250 lb	Frame	Solid	Gray	Durham Mfg	**34A971**	—
	7		24 in	78 in	1,250 lb	Legs	Solid	Gray	Durham Mfg	**34A974**	—
	—		24 in	78 in	675 lb	Legs	Solid	Dark Gray	Strong Hold	**3THP9**	—
	—	72 in	24 in	78 in	675 lb	Legs	Solid	Dark Gray	Strong Hold	**40V733**	—
Extra-Heavy Duty Cabinets with Swing Handle & Keyed Lock											
5	—	36 in	24 in	84 in	1,000 lb	Frame	Solid	Gray	Durham Mfg	**3NYK8**	—
Extra-Heavy Duty Cabinets with Swing Handle & Padlock Hasp Lock											
3	3	36 in	24 in	78 in	300 lb	Legs	Solid	Black	Jamco	**18H086**	—
	7	—	24 in	75 in	975 lb	Legs	Solid	Gray	Strong Hold	**276ZL2**	—
	7		24 in	75 in	700 lb	Legs	Solid	Gray	Strong Hold	**276ZL1**	—
	7		24 in	75 in	1,150 lb	Legs	Solid	Gray	Strong Hold	**276ZL0**	—
4	—	36 in	24 in	75 in	1,150 lb	Legs	Solid	Gray	Strong Hold	**276ZK4**	—
	—		24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHG2**	—
	—		24 in	82 in	1,450 lb	Legs	Solid	Gray	Lyon	**5JL46**	—
	—	48 in	24 in	75 in	700 lb	Legs	Solid	Gray	Strong Hold	**276ZK5**	—
	—		24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHG3**	—
	—		24 in	82 in	1,450 lb	Frame	Solid	Gray	Lyon	**3MA48**	—
	—	60 in	24 in	75 in	975 lb	Legs	Solid	Gray	Strong Hold	**276ZK6**	—
	—		24 in	78 in	1,450 lb	Frame	Solid	Dark Gray	Hallowell	**1YHG4**	—
	—		24 in	82 in	1,450 lb	Frame	Solid	Gray	Lyon	**3MA49**	—
5	—	36 in	24 in	78 in	300 lb	Legs	Solid	Black	Jamco	**18H084**	—
Industrial Shelf Cabinets											
Super Duty Cabinets with Swing Handle & Padlock Hasp Lock											
1	1	36 in	20 in	36 in	1,900 lb	Frame	Solid	Gray	Strong Hold	**10A002**	—
	1		20 in	42 in	1,900 lb	Frame	Solid	Gray	Strong Hold	**10A003**	—
	1		24 in	36 in	1,900 lb	Frame	Solid	Gray	Strong Hold	**10A004**	—
	1		24 in	42 in	1,900 lb	Frame	Solid	Gray	Strong Hold	**10A005**	—
	3		24 in	78 in	1,750 lb	Legs	Solid	Gray	Durham Mfg	**410Y41** *	—
	8		24 in	78 in	1,900 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW9**	—
	1	48 in	24 in	36 in	1,200 lb	Frame	Solid	Gray	Strong Hold	**10A006**	—
	1		24 in	42 in	1,200 lb	Frame	Solid	Gray	Strong Hold	**10A007**	—
2	7	36 in	24 in	78 in	1,900 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW8**	—
3	4		24 in	78 in	1,750 lb	Legs	Solid	Gray	Durham Mfg	**410Y39** *	—
	3		24 in	78 in	1,900 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW6**	—
4	3	48 in	24 in	78 in	1,900 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW7**	—
	6		24 in	78 in	400 lb	Legs	Solid	Gray	Durham Mfg	**410Y40** *	—
	6		24 in	78 in	1,200 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBV9**	—
	6	60 in	24 in	78 in	1,650 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW1**	—
	6	72 in	24 in	78 in	1,525 lb	Legs	Solid	Dark Gray	Strong Hold	**1UBW2**	—
Extra-Heavy Duty Cabinets with Swing Handle & Padlock Hasp Lock											
2	3	36 in	24 in	78 in	1,000 lb	Legs	Clearview	Black	Jamco	**18H069**	—
	3		24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H058**	—
	6	48 in	24 in	78 in	1,000 lb	Legs	Clearview	Black	Jamco	**18H070**	—
	6		24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H059**	—
	9	60 in	24 in	78 in	1,000 lb	Legs	Clearview	Black	Jamco	**18H071**	—
	9		24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H060**	—
3	3	36 in	24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H118** *	—
	6	48 in	24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H119** *	—
	9	60 in	24 in	78 in	1,000 lb	Legs	Solid	Black	Jamco	**18H120** *	—

** Includes pegboard doors.*

Stationary Combination Cabinets

- Adjustable shelves

Cabinets have a horizontal rod for hanging coats, uniforms, and other apparel as well as multiple shelves, or a combination of shelves and drawers to provide flexible storage options.

Corrosion-resistant cabinets are galvanneal steel and resist rusting when used in areas exposed to moisture or high humidity.

Solid doors provide security and conceal contents.

Ventilated doors have metal-mesh panes to allow air to circulate and prevent buildup of moisture and fumes.

Clearview doors have see-through panes that allow visibility to contents.

Commercial Cabinet K4848

Jobsite Industrial Cabinet 40V906 (Contents not included.)

Stationary Janitorial Cabinets

- Assembled

Sturdy cabinets hold brooms, mops, pails, and other cleaning supplies to keep them organized and readily accessible for use.

Commercial cabinets are 24-ga. steel with a powder coated finish.

Corrosion-resistant cabinets are polished stainless steel and resist rusting when used in areas exposed to moisture and high humidity.

Industrial extra-heavy duty cabinet is fully ventilated with 14-ga. metal mesh door and sides. Offers full visibility to contents and allows air to circulate to prevent buildup of moisture and fumes.

Industrial super duty cabinets are 12-ga. steel with a baked enamel finish.

Jobsite cabinets have a combination of 3 shelves and 2 drawers for storage.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Base Type	Door Type	Lock Type	Shelf Adjustability	▶CHOOSE: Cabinet Color	Brand	Item No.
Commercial Janitorial Cabinets											
Light Duty											
3	36 in	18 in	64 in	75 lb	Frame	Solid	Electronic Keypad	Fixed	Putty	Tennsco	**39FR54**
		18 in	64 in	75 lb	Frame	Solid	Keyed	Fixed	Black, Medium Gray, Putty, Sand	Tennsco	**K4848**
		18 in	64 in	75 lb	Frame	Solid	Electronic Keypad	Fixed	Black, Light Gray, Medium Gray, Sand	Tennsco	**K4849**
Corrosion-Resistant Industrial Janitorial Cabinets											
Super Duty											
4	36 in	24 in	78 in	1,150 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V955**
	48 in	24 in	78 in	700 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V957**
Industrial Janitorial Cabinets											
Extra-Heavy Duty											
2	61 in	27 in	78 in	1,000 lb	Legs	Ventilated	Padlock Hasp	Fixed	Gray	Little Giant	**36TV25**
Super Duty											
3	48 in	24 in	78 in	700 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V751**
	72 in	24 in	78 in	850 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V753**
4	36 in	24 in	78 in	950 lb	Legs	Solid	Padlock Hasp	Adjustable	Gray	Durham Mfg	**16D699**
		24 in	78 in	1,150 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**3THR4**
	48 in	24 in	78 in	2,000 lb	Legs	Solid	Padlock Hasp	Adjustable	Gray	Durham Mfg	**16D701**
		24 in	78 in	700 lb	Legs	Solid	Padlock Hasp	Adjustable	Federal Green, Dark Gray	Strong Hold	**K4850**
	60 in	24 in	78 in	1,250 lb	Legs	Solid	Padlock Hasp	Adjustable	Gray	Durham Mfg	**16D702**
		24 in	78 in	975 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**3THR6**
	72 in	24 in	78 in	850 lb	Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V754**
Jobsite Industrial Janitorial Cabinets											
Super Duty											
3	36 in	24 in	64 in	1,150 lb	Fork Pockets, Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V906**
	48 in	24 in	64 in	700 lb	Fork Pockets, Legs	Solid	Padlock Hasp	Adjustable	Dark Gray	Strong Hold	**40V907**

Greene Manufacturing, Inc.

Mobile Industrial Janitorial Cabinet

- Adjustable shelves
- 2 rigid and 2 swivel casters
- 12-ga. steel frame
- Padlock hasp lock
- Assembled

Cabinet rolls easily from one location to another, to take cleaning supplies wherever they are needed. See-through clearview door panes and sides allow users full visibility to contents to aid in loss prevention and inventory management. Full height compartment provides storage for mops, brooms, brushes, and other long items. Shelves hold cleaning supplies, smaller tools, and equipment.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Cabinet Color	Item No.
3	54 in	24 in	78 in	1,500 lb	Dark Gray	**40LE94**

SUNCAST

Commercial Plastic Stationary Shelf Cabinets

- Padlock hasp
- Unassembled

Strong, durable resin construction resists scratches, dents, and rust. Doors have recessed pull handles. Shelves with 200 lb. capacity are metal reinforced to resist bending. Suitable for indoor use.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Shelf Adjustability	Cabinet Color	Item No.
2	30 in	20 ¼ in	36 in	200 lb	—	Gray	**49WX80**
	30 in	20 ¼ in	36 in	75 lb	(2) Fixed	Platinum/Slate	**32XR99**
3	30 in	20 ¼ in	72 in	75 lb	(3) Adjustable	Platinum/Slate	**32XT01**
	40 in	20 ¼ in	80 ¼ in	75 lb	(3) Adjustable	Platinum/Slate	**32XT02**
4	30 in	20 ¼ in	72 in	200 lb	Adjustable	Gray	**49WX81**
	40 in	20 ¼ in	80 ¼ in	200 lb	Adjustable	Gray	**49WX83**

49WX83

StrongHold DURHAM MFG® Est. 1922

Access-Control Shift Cabinets

- Padlock hasp locks
- Assembled
- Adjustable shelves
- Leg base
- Solid doors with swing handle, except as noted

Shift cabinets have multiple compartments that lock individually to limit access to contents. Used to partition supplies and equipment for specific worker shifts in factories or warehouses. Also used to control employee access in retail stores, offices, and other shared workspaces.

Shelf-style cabinets are available with multiple shelves or with both shelves and drawers to provide flexible storage options. 16A404 has 2 upper doors with clear panels that allow visibility to contents.

Janitorial cabinets can hold brooms, mops, pails and other cleaning supplies.

Corrosion-resistant cabinets are stainless steel and resist rusting in areas exposed to moisture or high humidity.

Combination wardrobe cabinets have a horizontal rod for hanging uniforms, coats, or apparel as well as shelves or both shelves and drawers to hold smaller items.

Shelf-Style Cabinet 61KG29

Cabinet with Drawers 40V609

No. of Shelves	No. of Drawers	Overall Width	Overall Depth	Overall Height	Cabinet Color	Brand	Item No.
Shelf-Style Shift Cabinets							
Extra-Heavy Duty Cabinets							
6	—	36 in	24 in	75 in	Medium Gray	Strong Hold	**61KG29**
	—	48 in	24 in	75 in	Gray	Strong Hold	**61KG32**
	—		24 in	75 in	Medium Gray	Strong Hold	**61KG30**
	—	60 in	24 in	75 in	Medium Gray	Strong Hold	**61KG31**
Super Duty Cabinets							
2	—	72 in	24 in	78 in	Dark Gray	Strong Hold	**40V616**
	16		24 in	78 in	Dark Gray	Strong Hold	**40V615**
4	14	60 in	24 in	78 in	Dark Gray	Strong Hold	**40V609**
	14	72 in	24 in	78 in	Dark Gray	Strong Hold	**40V614**
6	—	36 in	24 in	66 in	Dark Gray	Strong Hold	**2RNC5**
	—		24 in	66 in	Gray	Durham Mfg	**34A956**
	—	48 in	24 in	66 in	Gray	Durham Mfg	**34A957**
	—		24 in	66 in	Dark Gray	Strong Hold	**2RNC7**
	—	60 in	24 in	66 in	Gray	Durham Mfg	**34A958**
	—		24 in	66 in	Dark Gray	Strong Hold	**2RNC8**
	6		24 in	78 in	Dark Gray	Strong Hold	**40V606**
	—	72 in	24 in	66 in	Gray	Durham Mfg	**34A959**
	10		24 in	78 in	Dark Gray	Strong Hold	**40V613**
8	—	36 in	24 in	78 in	Gray	Durham Mfg	**16D696**
	—		24 in	78 in	Dark Gray	Strong Hold	**2RNC6**
	—	48 in	24 in	78 in	Gray	Durham Mfg	**16D697**
	—		24 in	78 in	Dark Gray	Strong Hold	**16A404** *
	—		24 in	78 in	Dark Gray	Strong Hold	**5KAY6**
	—		24 in	78 in	Dark Gray	Strong Hold	**5ZH08**
	—	60 in	24 in	78 in	Gray	Durham Mfg	**16D698**
	—		24 in	78 in	Dark Gray	Strong Hold	**5ZH09**
	—		24 in	78 in	Dark Gray	Strong Hold	**5KAY7**
	—	72 in	24 in	66 in	Dark Gray	Strong Hold	**2RNC9**
	—		24 in	78 in	Gray	Durham Mfg	**34A980**
	—		24 in	78 in	Dark Gray	Strong Hold	**5KAY8**
	—		24 in	78 in	Dark Gray	Strong Hold	**5ZH11**
10	—		24 in	78 in	Dark Gray	Strong Hold	**40V728**
15	—	74 in	24 in	78 in	Gray	Strong Hold	**40V595**
20	—	98 in	24 in	78 in	Gray	Strong Hold	**40V596**
25	—	122 in	24 in	78 in	Gray	Strong Hold	**40V597**

** Clearview doors.*

Combination Wardrobe Cabinet 40V993

No. of Shelves	No. of Drawers	Overall Width	Overall Depth	Overall Height	Cabinet Color	Brand	Item No.
Janitorial Shift Cabinets							
Super Duty Cabinets							
6	—	72 in	24 in	78 in	Dark Gray	Strong Hold	**40V755**
8	—		24 in	78 in	Dark Gray	Strong Hold	**40V750**
Corrosion-Resistant Shelf-Style Shift Cabinets							
Super Duty Cabinets							
6	—	36 in	24 in	66 in	Silver	Strong Hold	**1UCD7**
	—	48 in	24 in	66 in	Silver	Strong Hold	**1UCD8**
8	—	72 in	24 in	78 in	Silver	Strong Hold	**2RNE3**
Combination Wardrobe Shift Cabinets							
Super Duty Cabinets							
1	4	—	18 in	66 in	Dark Gray	Strong Hold	**40V993**
7	7		24 in	78 in	Dark Gray	Strong Hold	**40V986**
10	—	72 in	24 in	78 in	Dark Gray	Strong Hold	**5KAZ3**

Commercial Wall-Mount Cabinet 3KR01

Stackable Wall-Mount Cabinet 1ANU5

Sandusky · Hallowell · DURHAM MFG Est. 1922 · Jamco Products · GMI Greene Manufacturing, Inc.

Metal Wall-Mount Cabinets

- Keyed lock except as noted

Can be installed above workstations, desks, sinks, and other areas to keep tools and supplies organized and close to where they are used, while keeping floor space clear.

Clearview cabinets have see-through door panes allowing visibility to contents.

Stackable cabinets have holes on the top and bottom for fastening cabinets together, allowing multiple cabinets to be securely stacked when placed on a benchtop or similar surface. Individual cabinets can also be wall mounted.

Corrosion-resistant cabinets are stainless steel and resist rusting in areas exposed to moisture or high humidity.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Shelf Adjustability	▶CHOOSE: Cabinet Color	Brand	SOLID Assembled Item No.	SOLID Unassembled Item No.	CLEARVIEW Assembled Item No.	CLEARVIEW Unassembled Item No.
Commercial Metal Wall-Mount Shelf Cabinets											
Light Duty											
1	30 in	12 in	30 in	150 lb	Adjustable	Putty, Dark Gray, Light Gray, Black	Sandusky	**E4143**	—	—	—
	36 in	12 in	30 in	200 lb	Adjustable	Dark Gray	Hallowell	**G6778**	—	—	—
2	13 ¾ in	12 ¾ in	30 in	35 lb	Adjustable	Gray	Durham Mfg	**3KR01** *	—	—	—
	18 in	12 in	26 in	85 lb	Adjustable	Putty, Dark Gray, Light Gray, Black	Sandusky	**E4144**	—	—	—
	20 in	14 ¼ in	32 ¾ in	35 lb	Adjustable	Gray	Durham Mfg	**3KR02** *	—	—	—
4	16 in	12 in	26 in	200 lb	Adjustable	Tan, Black, Dark Gray	Hallowell	**G6774**	**G6773**	**G6780**	**G6779**
	30 in	12 in	26 in	200 lb	Adjustable	Tan, Black, Dark Gray	Hallowell	**G6776**	**G6775**	**G6782**	**G6781**
	36 in	12 in	30 in	200 lb	Adjustable	Tan, Black, Dark Gray	Hallowell	—	**G6777**	**G6784**	**G6783**
		12 in	30 in	200 lb	Adjustable	Tan, Black	Hallowell	**G6778**	—	—	—
Medium Duty, Stackable											
1	34 in	8 ½ in	22 ¼ in	50 lb	Fixed	Gray	Durham Mfg	**3KP99**	—	—	—
		12 ½ in	24 in	50 lb	Fixed	Gray	Durham Mfg	**1ANU5** *	—	—	—
Corrosion-Resistant Industrial Metal Wall-Mount Shelf Cabinets											
Heavy Duty											
1	30 in	12 in	30 in	150 lb	Fixed	Gray	—	—	**6MNU8**	—	—
2		12 in	30 in	150 lb	Adjustable	Gray	Jamco	**23PA30**	—	—	—
Industrial Metal Wall-Mount Shelf Cabinets											
Heavy Duty											
3	36 in	12 in	30 in	200 lb	Adjustable	Dark Gray	GMI	**40LF04**	—	—	—

** Padlock hasp.*

32XR98

SUNCAST

Plastic Commercial Wall-Mount Cabinets

- 1 adjustable shelf
- Padlock hasp

Strong, durable resin construction resists scratches, dents, and rust. Doors have recessed pull handles. Suitable for indoor use.

Overall Width	Overall Depth	Overall Height	Load Capacity per Shelf	Cabinet Color	Item No.
30 in	12 in	30 ¼ in	50 lb	Platinum/Slate	**32XR98**
				Dark Gray	**49WX79**

Beta · Vidmar

Metal Wall-Mount Pegboard Cabinets

- Medium duty
- Keyed lock
- Assembled

Interior back wall has pegboard to accept hooks and other compatible accessories that can be arranged and reconfigured to create custom storage for a wide variety of items.

48UR77

Roll up door cabinets have doors that roll up to open and are designed for use in tight spaces with minimal door clearance.

Clearview door cabinets have see-through door panes that allow visibility to contents to aid in loss prevention and inventory management.

Overall Width	Overall Depth	Overall Height	Panel Material Thickness	Door Type	Cabinet Color	Brand	Item No.
Commercial Metal Wall-Mount Pegboard Cabinets							
67 in	6 in	37 in	20 ga	Roll Up	Orange	Beta	**420T87**
	6 in	37 in	20 ga	Roll Up	Gray	Beta	**420T88**
	6 in	37 in	20 ga	Roll Up	Red	Beta	**420T89**
Industrial Metal Wall-Mount Pegboard Cabinets							
30 in	14 in	30 in	20 ga	Clearview	Gray	Vidmar	**48UR75**
	14 in	37 in	20 ga	Clearview	Gray	Vidmar	**48UR76**
45 in	14 in	37 in	20 ga	Clearview	Gray	Vidmar	**48UR78**
	14 in	30 in	20 ga	Clearview	Gray	Vidmar	**48UR77**
60 in	14 in	37 in	20 ga	Clearview	Gray	Vidmar	**48UR80**
	14 in	30 in	20 ga	Clearview	Gray	Vidmar	**48UR79**

Modular Shelf Cabinets

LISTA LYON®

- Base cabinets have adjustable shelves
- Overhead cabinets have fixed shelves

Modular cabinets can be used individually, or paired with other brand-compatible cabinets to create a custom storage system. Cabinets can be rearranged or added as storage needs change. **Base cabinets** with door have a sliding door and keyed lock. **Overhead cabinets** with door have a keyed lock.

No. of Shelves	Overall Width	Overall Depth	Overall Height	Brand	NO DOOR Item No.	NO DOOR ▶CHOOSE: Cabinet Color	SOLID DOOR Item No.	SOLID DOOR ▶CHOOSE: Cabinet Color
Base Modular Shelf Cabinets								
2	28 ¼ in	28 ½ in	33 ½ in	Lista	**K3807**	Bright Blue, Classic Blue, Gray	—	—
	40 ¼ in	28 ½ in	33 ½ in	Lista	**G8246**	Gray, Classic Blue, Bright Blue	—	—
	56 ½ in	28 ½ in	33 ½ in	Lista	**G8240**	Gray, Classic Blue, Bright Blue	—	—
	56 ¼ in	28 ½ in	41 ¾ in	Lista	—	—	**G8239**	Gray, Classic Blue
3	40 ¼ in	28 ½ in	41 ¾ in	Lista	—	—	**G8248**	Gray, Classic Blue, Bright Blue
4	40 ¼ in	22 ½ in	59 ¼ in	Lista	—	—	**K3808**	Bright Blue, Classic Blue, Gray
	56 ¼ in	28 ½ in	59 ¼ in	Lista	—	—	**K3809**	Bright Blue, Classic Blue, Gray
Overhead Modular Shelf Cabinets								
2	30 in	28 ¼ in	25 in	Lyon	**K3810**	Gray, Black, Blue, Red	**K3811**	Gray, Black, Blue, Red
	30 in	28 ¼ in	28 in	Lyon	**K3812**	Gray, Black, Blue, Red	**K3813**	Gray, Black, Blue, Red
	30 in	28 ¼ in	31 in	Lyon	**K3819**	Gray, Black	**K3818**	Gray, Black, Blue, Red
	59 ¾ in	28 ¼ in	25 in	Lyon	**K3814**	Gray, Black	**K3815**	Gray, Black
	60 in	28 ¼ in	31 in	Lyon	**K3816**	Gray, Black, Blue, Red	**K3817**	Gray, Black, Red

G8248

Modular Drawer Cabinets

LISTA LYON®

Drawer cabinets provide high-density storage to keep items contained and organized. Modular cabinets can be used individually, or paired with other brand-compatible cabinets to build a custom storage system. Cabinets can be rearranged or added as storage needs change.

Mobile cabinets have 2 rigid and 2 swivel casters enabling them to roll easily to any location. Available with various surfaces to provide a convenient work space on top of the cabinet.

No. of Drawers	Overall Width	Overall Depth	Overall Height	No. of Compart. per Cabinet	Work Surface Material	▶CHOOSE: Cabinet Color	Brand	Item No.
Mobile Modular Drawer Cabinets								
5	22 ¼ in	28 ½ in	35 ½ in	0	Rubber Mat	Classic Blue	Lista	**3W545**
	28 ¼ in	22 ½ in	41 ½ in	0	Rubber Mat	Bright Blue, Gray	Lista	**K3749**
		22 ½ in	43 ¼ in	74	Butcher Block	Bright Blue	Lista	**4VZU5**
	39 in	28 ½ in	37 ¼ in	0	Butcher Block	Classic Blue	Lista	**4VM51**
	40 ¼ in	22 ½ in	41 ⅝ in	53	Rubber Mat	Gray	Lista	**4VZT7**
		22 ½ in	43 ¼ in	44	Butcher Block	Bright Blue	Lista	**4VZU9**
		22 ½ in	43 ¼ in	53	Rubber Mat	Bright Blue	Lista	**4VZT6**
6	22 ¼ in	28 ½ in	41 ½ in	0	Rubber Mat	Classic Blue	Lista	**3W546**
	28 ¼ in	22 ½ in	41 ½ in	0	Rubber Mat	Gray	Lista	**4VZT3**
		22 ½ in	43 ¼ in	62	Butcher Block	Bright Blue	Lista	**4VZU3**
		22 ½ in	43 ¼ in	0	Rubber Mat	Bright Blue	Lista	**4VZT2**
	40 ¼ in	22 ½ in	41 ⅝ in	72	Rubber Mat	Gray	Lista	**4VZT9**
		22 ½ in	43 ¼ in	72	Rubber Mat	Bright Blue	Lista	**4VZT8**
		22 ½ in	47 ½ in	0	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3750**
7	28 ¼ in	22 ½ in	41 ½ in	0	Rubber Mat	Gray	Lista	**4VZT5**
		22 ½ in	43 ¼ in	72	Butcher Block	Bright Blue	Lista	**4VZV4**
		22 ½ in	43 ¼ in	0	Rubber Mat	Bright Blue	Lista	**4VZT4**
	40 ¼ in	22 ½ in	41 ⅝ in	94	Rubber Mat	Gray	Lista	**4VZU2**
		22 ½ in	43 ¼ in	94	Steel	Bright Blue	Lista	**4VZU1**
		22 ½ in	47 ½ in	0	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3751**
8		22 ½ in	47 ½ in	0	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3752**
9		22 ½ in	47 ½ in	0	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3753**
10	60 in	28 ½ in	42 in	0	Butcher Block	Bright Blue	Lista	**52JU47**
11		28 ½ in	42 in	0	Butcher Block	Bright Blue	Lista	**52JU49**
13		28 ½ in	48 in	0	Butcher Block	Bright Blue	Lista	**52JU55**
14		28 ½ in	48 in	0	Butcher Block	Bright Blue	Lista	**52JU57**
Modular Drawer Cabinets								
5	22 ¼ in	28 ½ in	33 ½ in	53	Steel	Bright Blue	Lista	**1VD84**
	30 in	28 ¼ in	33 ¼ in	104	Steel	Gray	Lyon	**55XL45**
		28 ¼ in	59 ¼ in	104	Steel	Blue, Black, Red	Lyon	**K3754**
6	28 ¼ in	28 ½ in	57 ⅛ in	37	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3755**
	30 in	28 ¼ in	44 ¼ in	84	Steel	Gray, Blue, Black, Red	Lyon	**K3756**
7	28 ¼ in	28 ½ in	39 ⅜ in	136	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3757**
	30 in	28 ¼ in	44 ¼ in	114	Steel	Red	Lyon	**55VU28**
		28 ¼ in	59 ¼ in	0	Steel	Gray, Blue, Black, Red	Lyon	**K3758**
	40 ¼ in	22 ½ in	41 ¾ in	168	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3759**
	56 ⅜ in	22 ½ in	39 ⅜ in	156	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3760**
8	28 ¼ in	28 ½ in	41 ¾ in	168	Steel	Classic Blue	Lista	**36N118**
		28 ½ in	41 ¾ in	168	Steel	Bright Blue, Gray	Lista	**K3761**
		28 ½ in	41 ¾ in	168	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3762**
	30 in	28 ¼ in	59 ¼ in	104	Steel	Gray, Blue, Black, Red	Lyon	**K3763**
	40 ¼ in	22 ½ in	41 ¾ in	144	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3764**
9	28 ¼ in	28 ½ in	39 ⅜ in	180	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3765**
		28 ½ in	41 ¾ in	204	Steel	Bright Blue	Lista	**K3768**
	30 in	28 ¼ in	59 ¼ in	144	Steel	Gray, Blue, Black, Red	Lyon	**K3766**
	40 ¼ in	22 ½ in	41 ¾ in	228	Steel	Bright Blue, Classic Blue, Gray	Lista	**K3767**
	56 ⅜ in	22 ½ in	39 ⅜ in	204	Steel	Classic Blue, Gray	Lista	**K3768**
10	30 in	28 ¼ in	59 ¼ in	168	Steel	Red	Lyon	**55VU26**
		28 ¼ in	59 ¼ in	180	Steel	Black	Lyon	**55XL62**
		28 ¼ in	59 ¼ in	180	Steel	Blue, Gray, Red	Lyon	**K3769**
		28 ¼ in	59 ¼ in	168	Steel	Gray, Blue, Black	Lyon	**K3770**
11		28 ¼ in	59 ¼ in	269	Steel	Gray, Blue, Black, Red	Lyon	**K3771**
12		28 ¼ in	59 ¼ in	0	Steel	Gray, Blue, Black, Red	Lyon	**K3772**

4VM51

1VD84

K3766

Cabinet w/ Individually Locking Drawers
18H211

Open-Access Cabinet
40V619

Cabinet with Locking Door
40V623

Drawer Cabinets

- Assembled

Drawers keep small or loose items contained and organized. Used for shared storage in a wide range of facilities, such as warehouses, factories, schools, hospitals, and retail stores.

Cabinets with individually locking drawers allow controlled access to stored items.

Locking door cabinets have a solid door that accepts a padlock, but individual drawers do not lock.

Open-access cabinets do not lock and provide quick accessibility to all contents.

Overall Width	Overall Depth	Overall Height	No. of Drawers	Drawer HxWxD	Panel Material Thickness	Base Type	Cabinet Color	Brand	Item No.
Drawer Cabinets with Individually Locking Drawers - Keyed									
18 in	24 in	33 in	4	(4) 5 in x 16 in x 16 in	14 ga	Legs	Gray	Jamco	**18H205**
36 in	24 in	33 in	8	(8) 5 in x 16 in x 16 in	14 ga	Legs	Gray	Jamco	**18H211**
Drawer Cabinets with Locking Door - Padlock Hasp									
28 in	20 in	40 in	10	(1) 6 in x 24 in x 20 in, (3) 4 in x 24 in x 20 in, (6) 2 in x 24 in x 20 in	12 ga	Frame	Dark Gray	Strong Hold	**40V623**
36 in	24 in	44 in	7	—	12 ga	Legs	Gray	Strong Hold	**40V888**
Open-Access Drawer Cabinets									
50 in	36 in	53 in	12	(12) 3 in x 44 in x 34 in	12 ga	Legs	Dark Gray	Strong Hold	**40V984**
82 in	26 in	59 in	16	(16) 6 in x 36 in x 22 in	12 ga	Legs	Dark Gray	Strong Hold	**40V619**

9 Drawers
G2393

DURHAM MFG Est. 1922

Metal/Plastic Small Parts Drawer Cabinets

- Assembled

Hold small parts to keep them separated and organized. Welded steel frame cabinets with plastic drawers. Colored drawers allow easy identification and organization of contents. Clear drawers allow full visibility to contents. Can be wall-mounted to keep work surfaces clear.

No. of Drawers	Drawer HxWxD	Overall Width	Overall Depth	Overall Height	▶CHOOSE: Drawer Color	Brand	Item No.
9	(9) 3 1⁄16 in x 5 3⁄16 in x 10 ½ in	17 in	11 in	11 in	Blue, Black, Gray	Akro-Mils	**G2393**
15	(15) 3 1⁄16 in x 3 3⁄16 in x 10 ½ in	17 in	11 in	11 in	Blue, Black, Gray	Akro-Mils	**G2392**
16	(16) 2 ⅛ in x 4 in x 10 ½ in	17 in	11 in	11 in	Blue, Black, Gray	Akro-Mils	**G2391**
20	(20) 2 3⁄16 in x 5 ½ in x 1 ⅞ in	16 ¾ in	6 ½ in	12 in	Clear	Durham Mfg	**31TT92**
20	(20) 2 1⁄16 in x 3 3⁄16 in x 10 ½ in	17 in	11 in	11 in	Blue, Black, Gray	Akro-Mils	**G2390**
28	(28) 2 1⁄16 in x 2 3⁄16 in x 10 ½ in	17 in	11 in	11 in	Blue, Black, Gray	Akro-Mils	**G2389**

24 Drawers
9AGY9

Plastic Small-Parts Drawer Cabinets

- Black cabinets with clear drawers
- Stackable
- Assembled

Plastic frames and drawers will not rust. Clear drawers allow full visibility to contents. Cabinets with the same width and depth can be stacked on each other to provide high-density storage.

No. of Drawers	Drawer Size H	Drawer Size W	Drawer Size D	Overall Size W	Overall Size D	Overall Size H	No. of Dividers	Brand	Item No.
13	1 ½ in, 3 5⁄16 in	3 ½ in, 8 ¾ in	6 ¼ in	17 ¾ in	7 in	9 ¾ in	10	Westward	**31TT94**
14	1 ½ in, 3 5⁄16 in	3 ½ in, 8 ¾ in	6 ¼ in	17 ¾ in	7 in	9 ¾ in	10	Westward	**31TT95**
16	1 ⅝ in	6 in	2 ¼ in	10 ½ in	6 ½ in	8 ½ in	8	Akro-Mils	**9NT07**
20	1 ½ in	2 ½ in	5 ¾ in	14 ¾ in	6 in	7 ¼ in	20	Westward	**31TT93**
24	2 in	4 ½ in	6 in	20 in	6 ½ in	15 ¾ in	12	Akro-Mils	**9AGY9**
44	1 ½ in, 2 in	2 ¼ in, 4 ½ in	5 ¼ in	20 in	6 ½ in	15 ¾ in	12	Akro-Mils	**8TTD7**
64	1 ½ in	2 ⅛ in	5 ¼ in	20 in	6 ½ in	15 ¾ in	12	Akro-Mils	**3AJ39**

DURHAM MFG Est. 1922 AKRO-MILS®

Metal Small-Parts Drawer Cabinets

- Powder-coated finish
- Metal frames and drawers
- Stackable, except for 4HU99

Hold and store small parts to keep them separate and organized. Drawers extend fully to allow access and visibility to items at the back. Provide shared storage in garages, workshops, electronics manufacturing and repair, and other applications where small parts are frequently used.

Modular cabinets can be stacked on top of other compatible drawer cabinets to provide high-density storage.

Cabinets with base are raised off the floor, allowing access beneath the cabinets for cleaning.

Revolving storage rack provides convenient access to all sides of storage bins.

18-Drawer Cabinet 2W265

Revolving Storage Rack Only (Cabinets Sold Separately)

No. of Drawers	Drawer Size H	Drawer Size W	Drawer Size D	Overall Size W	Overall Size D	Overall Size H	No. of Dividers	Drawer Color	Cabinet Color	Brand	Item No.
Modular Metal Small Parts Drawer Cabinets											
6	2 ¾ in	4 ⅞ in	11 ¼ in	11 ¾ in	11 ¾ in	11 in	12	Red	Gray	Durham Mfg	**49H237**
	2 ¾ in	4 ⅞ in	11 ¼ in	33 ¾ in	11 ¾ in	4 in	12	Gray	Gray	Durham Mfg	**3KP94**
	2 ¾ in	5 ½ in	11 ¼ in	11 ¾ in	11 ¾ in	11 in	12	Gray	Gray	Durham Mfg	**1XHJ6**
8	2 ¾ in	5 ½ in	11 ¼ in	22 ¾ in	11 ¾ in	7 ½ in	16	Gray	Gray	Durham Mfg	**1XHJ7**
9	2 ¾ in	4 ⅞ in	11 ¼ in	17 ¼ in	11 ¾ in	11 in	18	Gray	Gray	Durham Mfg	**3KP97**
12	2 ¾ in	4 ½ in	11 ¼ in	33 ¾ in	11 ¾ in	7 ½ in	24	Gray	Gray	Durham Mfg	**1XHJ9**
18	2 ¾ in	4 ⅞ in	11 ¼ in	33 ¾ in	11 ¾ in	11 in	36	Red	Gray	Durham Mfg	**49H238**
	2 ¾ in	4 ⅞ in	11 ¼ in	33 ¾ in	11 ¾ in	10 ¾ in	2	Gray	Gray	Durham Mfg	**3KP88**
	2 ¾ in	5 ½ in	11 ¼ in	17 ¼ in	11 ¾ in	21 ¼ in	32	Gray	Gray	Durham Mfg	**1XHJ8**
	3 ½ in	5 7/16 in	11 ¼ in	33 ¾ in	11 ¾ in	12 ¾ in	36	Gray	Gray	Durham Mfg	**2W265**
	3 ½ in	5 7/16 in	17 in	33 ¾ in	17 ¼ in	12 ¾ in	36	Gray	Gray	Durham Mfg	**2W267**
24	2 ¾ in	4 ⅞ in	11 ¼ in	33 ¾ in	11 ¾ in	14 ½ in	48	Red	Gray	Durham Mfg	**49H239**
	2 ¾ in	4 ⅞ in	11 ¼ in	33 ¾ in	11 ¾ in	14 ¼ in	2	Gray	Gray	Durham Mfg	**3KP90**
	3 ½ in	5 7/16 in	11 ¼ in	33 ¾ in	11 ¾ in	17 in	48	Gray	Gray	Durham Mfg	**2W266**
	3 ½ in	5 7/16 in	17 in	33 ¾ in	17 ¼ in	17 in	48	Gray	Gray	Durham Mfg	**2W268**
30	2 ¾ in	5 ½ in	11 ¼ in	33 ¾ in	11 ¾ in	17 ¾ in	60	Gray	Gray	Durham Mfg	**1XHK1**
	3 ½ in	4 ⅞ in	17 in	33 ¾ in	17 ¼ in	21 in	60	Gray	Gray	Durham Mfg	**3W400**
	3 ½ in	5 ⅜ in	11 ¼ in	33 ¾ in	11 ¾ in	21 in	60	Gray	Gray	Durham Mfg	**2W787**
72	3 3/16 in	5 7/16 in	11 ⅞ in	34 in	12 ¼ in	48 in	144	Gray	Gray	Durham Mfg	**4HU99**
Metal Small Parts Drawer Cabinets with Base											
30	3 ½ in	4 ⅞ in	11 ¼ in	34 in	12 ¼ in	26 ¼ in	2	Gray	Gray	Durham Mfg	**3HFK1**
	3 ½ in	4 ⅞ in	17 in	34 in	17 ¾ in	26 ¼ in	2	Gray	Gray	Durham Mfg	**3HFK2**
48	2 ¾ in	4 ⅞ in	11 ¼ in	34 in	12 ¼ in	33 ¾ in	96	Gray	Gray	Durham Mfg	**4HY11**

Load Cap.*	Overall Dim. L	Overall Dim. W	Overall Dim. H	Brand	Item No.
Revolving Storage Rack					
1,000 lb	31 in	31 in	60 in	Akro-Mils	**5LA31**

** Based on evenly distributed loads.*

DURHAM MFG Est. 1922

Specialty Storage Units

- All-steel construction
- Gray powder-coated finish

ROD WIRE SPOOL RACKS

Removable, plated-steel rods store and dispense spools of wire. Easy-to-assemble units can be counter-, wall-, or vehicle-mounted. Racks accommodate spools up to 10" dia.

THREADED ROD RACK

Vertical rack has holes to hold up to 18 rods and keep them upright and ready for use.

WIRE SPOOL STORAGE CABINET

Accommodates 24 3½" spools. Features 16 grommets to guide wires and a box with 21 compartments for storing smaller components. Open front for easy access to wire.

HYDRAULIC HOSE CABINETS

Vertical compartments hold coiled hoses to keep them organized and ready for use. Open front allows users to see contents at a glance. 49H244 holds a single hose; 49H245 holds 2 hoses; 49H246 holds 3 hoses.

ROD STORAGE RACK

6 horizontal compartments hold welding rods to keep them organized and ready for use.

Keystock Rack 3HFK7

Threaded Rod Rack 3KP91

Description	Overall Dim.	Item No.
Keystock Rack, ¾" Square w/10 Openings	6 ¼ inD x 12 ¼ inW x 12 inH	**3HFK7**
Threaded Rod, w/18 2 1/16" dia. Openings	6 ⅞ inD x 24 inW x 24 inH	**3KP91**
Rod Storage Rack, (6) Compartments	18 inD x 16 ⅛ inW x 6 inH	**3HFK8**
Rod Wire Rack (2 Rods)	5 ⅞ inD x 26 inW x 21 inH	**4HU97**
Rod Wire Rack (4 Rods)	5 ⅞ inD x 26 inW x 36 inH	**5W887**
Wire Spool Storage Cabinet	12 inD x 16 inW x 16 inH	**49H247**
Hydraulic Hose Storage Cabinet	24 ¼ inD x 8 ½ inW x 34 ¾ inH	**49H244**
	24 ¼ inD x 13 ¾ inW x 24 inH	**49H245**
	24 ¼ inD x 21 ½ inW x 24 inH	**49H246**

6RHH0

K4854

DURHAM MFG
Est. 1922

Lipped Fixed-Size Compartmented Shelving

Compartments have a lip on the front to prevent contents from falling out. Units keep items and supplies separate and organized for quick, easy access. Compartment sizes can be found on Grainger.com®.

Overall Depth	Overall Height	No. of Compart.	Color	Item No.
18 in W Overall				
12 in	42 in	36	Gray	**1XHK9**
24 in W Overall				
4 ¾ in	24 in	36	Gray	**5W886**
34 in W Overall				
8 ½ in	18 in	8	Gray	**6RHH0**
		32	Gray	**1XHL1**
	24 in	20	Gray	**6RHH1**
		40	Gray	**1XHL3**
	42 in	72	Gray	**1XHL4**
12 in	12 in	16	Gray	**5LE88**
	18 in	18	Gray	**1XHK8**
		32	Gray, Red	**K4855**
	24 in	4	Gray	**1ANU4**
		8	Gray	**6ALJ3**
		12	Gray	**4HU93**
		24	Gray, Red	**K4851**
		40	Gray, Red	**K4852**
	42 in	10	Gray	**6ALJ4**
		20	Gray, Red	**K4853**
		42	Gray	**3KP92**
		44	Gray	**6ALJ5**
		48	Gray	**6ALJ6**
		56	Gray	**3KP93**
		72	Gray, Red	**K4854**
	66 in	32	Gray	**15V212**
		60	Gray	**15V213**
		84	Gray	**15V214**
		104	Gray	**15V215**
		112	Gray	**15V216**

Customizable Compartmented-Box Cabinet K4856

Small Compartmented-Box Cabinet Base Extra Drawer

DURHAM MFG
Est. 1922

Compartmented-Box Cabinets

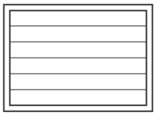
- Gray powder-coated finish
- Prime cold-rolled steel
- Stackable

Large Compartmented-Box Cabinets—4 steel drawers, each with a hinged steel top, steel pull handle, closure latch, and molded styrene tray. Each compartment has a scooped bottom for easy access. Drawers ride on full-suspension slides fixed within the cabinet and can be easily removed.

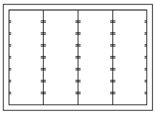
- Drawers measure 3 in x 18 in x 12 in inside

Customizable Compartmented-Box Cabinets—Sliding drawers are empty allowing users to choose any compatible drawer/insert for custom configuration. Drawer stops prevent unintentional pull-out. Cabinets can be stacked and bolted together, or bolted to a rigid surface, such as optional base, for added stability.

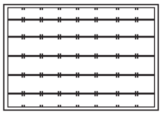
Compartment Drawers—Adjustable compartment boxes include plastic dividers that can be removed or rearranged to create various compartment sizes. Drawer inserts are polypropylene and fit inside compatible empty drawers.



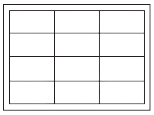
6 Horizontal Compartments



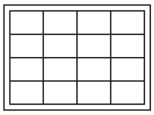
9 Vertically Adjustable Compartments



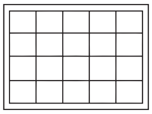
12 Horizontally Adjustable Compartments



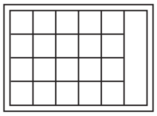
12 Compartments



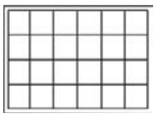
16 Compartments



20 Compartments



21 Compartments



24 Compartments

No. of Compart.	Compart. per Drawer	Overall Width	Overall Depth	Overall Height	Cabinet Color	Item No.
Large Compartmented-Box Cabinets						
Glide Slides - 40 lb Load Capacity Per Slide						
8	4 to 13	20 in	15 ¾ in	15 in	Gray	**5W885**
48	12	20 in	15 ¾ in	15 in	Gray	**4HY18**
64	16	20 in	15 ¾ in	15 in	Gray	**4HY23**
81	16, 20, 21, 24	20 in	15 ¾ in	15 in	Gray	**4HY17**
96	24	20 in	15 ¾ in	15 in	Gray	**2W430**
128	32	20 in	15 ¾ in	15 in	Gray	**5W884**
Bearing Slides - 75 lb Load Capacity Per Slide						
48	12	20 ⅜ in	15 ¾ in	14 ⅞ in	Gray	**6RHH2**
64	16	20 ⅜ in	15 ¾ in	14 ⅞ in	Gray	**6RHH3**
81	16, 20, 21, 24	20 ⅜ in	15 ¾ in	14 ⅞ in	Gray	**6RHH6**
96	24	20 ⅜ in	15 ¾ in	14 ⅞ in	Gray	**6RHH5**

For Number of Boxes	Overall Width	Overall Depth	Overall Height	Cabinet Color	Item No.
Customizable Large Compartmented-Box Cabinets — Drawers Sold Separately					
Bearing Slides - 75 lb Load Capacity Per Slide					
2	20 ⅜ in	12 ⅝ in	8 ⅛ in	Gray	**49H248**
4	20 in	12 ½ in	15 in	Gray	**1XHL6**
	20 in	15 ¾ in	15 in	Red	**49H236**
	20 ⅜ in	15 ¾ in	14 ⅞ in	Gray	**6RHH7**
5	20 ½ in	12 ½ in	21 in	Gray	**49H249**
6	20 ⅜ in	16 in	21 ⅞ in	Gray	**49H250**

No. of Compart.	Compartment HxWxD	Color	Item No.
Compartment Drawers			
Adjustable Large Compartmented Boxes			
12 to 18	3 in x 17 ½ in x 1 ⅞ in	Gray	**4HY21**
4 to 13	3 in x 4 5/16 in x 11 7/16 in	Red, Gray	**K4857**
6 to 18	3 in x 17 ½ in x 1 ⅞ in	Red	**5JEN5**
Large Compartmented Boxes			
6	3 in x 17 ½ in x 1 ⅞ in	Gray, Red	**K4858**
	3 in x 2 ⅞ in x 11 11/16 in	Gray, Red	**K4859**
12	3 in x 5 13/16 in x 2 15/16 in	Gray, Red	**K4860**
16	3 in x 4 5/16 in x 2 15/16 in	Gray, Red	**K4861**
20	3 in x 3 7/16 in x 2 15/16 in	Gray, Red	**K4862**
21	(1) 3 13/16 in x 11 9/16 in, (20) 2 15/16 in x 2 11/8 in	Gray	**3KR06**
24	(20) 2 ⅞ in x 2 11/16 in, (4) 3 13/16 in x 2 ⅞ in	Gray	**1A793**
32	3 in x 2 ⅛ in x 2 ⅞ in	Red, Gray	**K4863**
Compartment Drawer Inserts			
Inserts for Large Compartmented Boxes			
4	(4) 11 9/16 in x 4 5/16 in	Gray	**52JD33**
6	(6) 17 ½ in x 1 ⅞ in	Gray	**52JD34**
	(6) 17 ½ in x 1 27/32 in	Gray	**52JD25**
	(6) 2 13/16 in x 11 21/32 in	Gray	**52JD26**
12	(12) 5 25/32 in x 2 27/32 in	Gray	**52JD27**
16	(16) 4 5/16 in x 2 27/32 in	Gray	**52JD28**
20	(20) 3 7/16 in x 2 27/32 in	Gray	**52JD29**

No. of Compart.	Compartment HxWxD	Color	Item No.
21	(1) 3 25/32 in x 11 19/32 in, (20) 2 27/32 in x 2 21/32 in	Gray	**52JD30**
24	(20) 2 27/32 in x 2 21/32 in, (4) 3 25/32 in x 2 27/32 in	Gray	**52JD31**
32	(32) 2 ⅛ x 2 27/32	Gray	**52JD32**
Inserts for Small Compartmented Boxes			
4	(4) 3 9/64 in x 9 3/64 in	Gray	**52JD43**
8	(8) 6 25/64 in x 2 13/64 in	Gray	**52JD36**
12	(12) 4 7/32 in x 2 3/16 in	Gray	**52JD37**
16	(16) 3 5/32 in x 2 13/64 in	Gray	**52JD38**
17	(14) 2 13/64 in x 1 15/16 in (2) 1 15/16 in x 6 49/64 in (1) 2 23/32 in x 9 3/64 in	Gray	**52JD39**
20	(20) 2 ½ in x 2 13/64 in	Gray	**52JD40**
21	(1) 2 23/32 in x 9 3/64 in, (20) 2 13/64 in x 1 15/16 in	Gray	**52JD41**
24	(20) 2 13/64 in x 1 15/16 in, (4) 2 23/32 in x 2 13/64 in	Gray	**52JD42**

Description	Cabinet Dim. D	W	H	Item No.
Accessories				
Locking Hinge	—	—	—	**1XHL9**
Optional Base For Slide Rack	16 ¼ in	20 ⅝ in	15 ⅝ in	**4HY15**
Optional Cabinet Base	12 ⅝ in	20 ⅝ in	16 ⅝ in	**4NDW9**

Stationary Medical Supply Cabinets

Designed to hold supplies, medications, and other healthcare items to keep them organized and accessible. Used for shared storage in settings such as hospitals, doctor's offices, clinics, and nursing homes.

Antimicrobial cabinets have sturdy polymer construction and are treated to prevent the growth of mold, mildew, and other microbes. 6EJJ7 and 6EJJ8 have keyed locks.

Catheter cabinets use hooks, slides, and shelves to hold catheters and keep them organized. Slides extend to allow catheters to be easily viewed for inventory control. Doors have keyed locks.

Corrosion-resistant cabinets are stainless steel and resist rusting when used in areas exposed to moisture or high humidity. Full-height cabinet 460K32 has adjustable shelves and clear see-through door panes to allow visibility of contents. Counter-height cabinet 460K47 has pull-handle drawers.

Catheter Storage Cabinet 6EJK3

Corrosion-Resistant 460K32

Overall Width	Overall Depth	Overall Height	No. of Shelves	No. of Doors	No. of Drawers	Shelf Width	Cabinet Color	Brand	Item No.
Antimicrobial Plastic Medical Cabinets									
21 ½ in	23 ⅜ in	72 ½ in	2	0	6	18 in	Taupe	Metro	**6EJJ6**
41 ¼ in	23 ⅜ in	72 ½ in	5	2	0	36 ⅜ in, 39 ½ in	Light Taupe	Metro	**6EJJ7**
	23 ⅜ in	72 ½ in	6	2	12	18 in	Light Taupe	Metro	**6EJJ8**
	23 ⅜ in	72 ½ in	7	2	6	16 ½ in, 18 in, 19 ¾ in	Taupe	Metro	**6EJJ9**
Catheter Storage Cabinet									
41 ¼ in	23 ⅜ in	72 ½ in	2	2	0	—	Taupe	Metro	**6EJK2**
	23 ⅜ in	72 ½ in	3	2	5	—	Taupe	Metro	**6EJK3**
Corrosion-Resistant Metal Medical Cabinets									
30 in	18 in	84 in	5	2	0	—	Silver	Lakeside	**460K32**
36 in	20 in	40 in	0	0	4	—	Silver	Lakeside	**460K47**

Wall-Mount Medical Supply Cabinets

Can be mounted to a wall to keep floor space clear or installed above workstations, desks, sinks, and other areas to keep stored items close to where they are needed. Designed to hold supplies, medications, and other healthcare items. Used for shared storage in settings such as hospitals, doctor's offices, clinics, and nursing homes.

Corrosion-resistant cabinet is stainless steel to resist rusting in damp or humid areas. Clearview door panes allow visibility to contents.

Compact cabinets are designed for use in tight spaces. 53XJF44 has a fold-down door. 53JX45 has a right-hinge door with a window to view contents. 53JX46 has a solid door.

High security cabinets provide additional security to help prevent theft or loss of medications and other controlled substances. Doors have double locks or electronic keypad locks.

Antimicrobial cabinets have sturdy polymer construction and are treated to prevent the growth of mold, mildew, and other microbes. Will not rust when used in damp or humid areas. 24X105 has a single left-hinge door. 24X107 has a roll-up door for tight spaces. 24X106 has 2 center-closing doors.

Corrosion-Resistant 460K49

Antimicrobial Polymer 24X105

Overall Width	Overall Depth	Overall Height	No. of Doors	No. of Shelves	Lock Type	Brand	Item No.
Corrosion-Resistant Stainless Steel Cabinets							
27 in	12 in	28 in	2	1	None	Lakeside	**460K49**
Steel Cabinets							
24 in	8 in	30 in	2	4	Keyed	Lakeside	**460K80**
	10 in	30 in	1	3	Keyed	Lakeside	**460K78**
Compact							
10 ⅝ in	3 ¼ in	9 ½ in	1	1	Keyed	Barska	**53JF44**
12 ⅜ in	4 in	14 ⅛ in	1	3	Keyed	Barska	**53JF45**
15 in	5 ½ in	20 ⅞ in	1	3	Keyed	Barska	**53JF46**

Overall Width	Overall Depth	Overall Height	No. of Doors	No. of Shelves	Lock Type	Brand	Item No.
High-Security							
8 ¾ in	6 in	7 ¼ in	1	0	Keyed	Lakeside	**460K76**
12 in	8 in	15 in	2	1	Keyed	Lakeside	**460K74**
18 in	8 in	15 in	1	1	Keyed	Lakeside	**460K73**
	8 in	30 in	1	2	Keyed	Lakeside	**460K75**
	10 in	30 in	2	2	Keyed	Lakeside	**460K79**
24 in	10 in	18 in	1	2	Electronic Keypad	Lakeside	**460K71**
	10 in	30 in	1	3	Keyed	Lakeside	**460K77**
	10 in	30 in	1	3	Electronic Keypad	Lakeside	**460K72**
Antimicrobial Polymer Cabinets							
21 ½ in	13 ¾ in	29 ½ in	1	2	Keyed	Metro	**24X105**
22 ¾ in	15 ½ in	30 in	1	0	Keyed	Metro	**24X107**
41 ¼ in	13 ¾ in	29 ½ in	2	2	Keyed	Metro	**24X106**

Mobile Medical Supply Cabinets

- Taupe

Cabinets have 4 swivel casters enabling them to be easily rolled to any location needed. Sturdy polymer construction with an antimicrobial treatment to prevent the growth of mold, mildew, and other microbes.

Catheter cabinets use hooks, slides, and shelves to hold catheters and keep them organized. Slides extend to allow catheters to be easily viewed for inventory control. Doors have keyed locks.

6EJJ3

Overall Width	Overall Depth	Overall Height	No. of Shelves	No. of Doors	No. of Drawers	Shelf Width	Item No.
22 ¾ in	24 ⅞ in	78 ¼ in	2	0	6	18 in	**6EJG0**
	27 ⅞ in	78 ¼ in	4	1	0	19 ¾ in	**6EJG2**
42 ½ in	27 ⅞ in	78 ¼ in		2	0	39 ½ in	**6EJE9**
65 ¾ in	27 ⅞ in	78 ¼ in	13	3	0	16 ½ in, 19 ¾ in, 36 ⅜ in, 39 ½ in	**6EJJ3**
	27 ⅞ in	78 ¼ in	11	3	10	16 ½ in, 18 in, 19 ¾ in	**6EJJ2**
Catheter Storage Cabinet							
43 in	25 in	76 in	0	2	0	—	**6EJK0**
	25 in	76 in	3	2	5	—	**6EJK1**

Adjustable Hook
40V994

Non-Adjustable Peg
40V988

StrongHold

Hanging Hook Cabinets

- Assembled
- Gray with baked enamel finish
- Padlock hasp
- Solid doors
- 6"H leg base

Super-duty cabinets are constructed of 12-ga. steel and have interior hooks or pegs to hang hard hats, tools, and other equipment. Commonly used for shared storage in shops, garages, and other industrial areas.

Adjustable hook cabinet comes with 52 hooks on the back wall and door interiors. Hooks can be moved as needed. Each hook can hold up to 30 lbs.

Non-adjustable peg cabinet has 24 welded hanger pegs on the back wall. Each peg can hold up to 26 lbs.

Hanger Type	Overall Width	Overall Depth	Overall Height	Item No.
Adjustable Hook	60 in	24 in	84 in	**40V994**
Non-Adjustable Peg	72 in	24 in	78 in	**40V988**

35KU26

Hallowell

Adjustable-Width Compartmented Shelving

- 800-lb. shelf capacity, based on evenly distributed loads
- Gray powder-coated finish
- 36"W x 84"H

Include metal dividers and base strips.

Starter units are freestanding.

Add-on units can be attached to existing units to create additional storage space.

Overall Depth	No. of Compart.	Compartment WxDxH	Starter Item No.	Add-On Item No.
12 in	14	18 in x 12 in x 12 in	**35KU24**	**35KU25**
	21	12 in x 12 in x 12 in	**35KU30**	**35KU31**
	36	9 in x 12 in x 12 in, 9 in x 12 in x 9 in	**35KU36**	**35KU37**
	54	6 in x 12 in x 12 in, 6 in x 12 in x 9 in	**35KU42**	**35KU43**
	54	6 in x 12 in x 12 in, 6 in x 12 in x 9 in	**35KU54** *	**35KU55** *
	78	6 in x 12 in x 9 in, 6 in x 12 in x 6 in	**35KU48**	**35KU49**
18 in	14	18 in x 18 in x 12 in	**35KU26**	**35KU27**
	21	12 in x 18 in x 12 in	**35KU32**	**35KU33**
	36	9 in x 18 in x 12 in, 9 in x 18 in x 9 in	**35KU38**	**35KU39**
	54	6 in x 18 in x 12 in, 6 in x 18 in x 9 in	**35KU44**	**35KU45**
	54	6 in x 18 in x 12 in, 6 in x 18 in x 9 in	**35KU56** *	**35KU57** *
	78	6 in x 18 in x 9 in, 6 in x 18 in x 6 in	**35KU50**	**35KU51**
24 in	14	18 in x 24 in x 12 in	**35KU28**	**35KU29**
	21	12 in x 24 in x 12 in	**35KU34**	**35KU35**
	36	9 in x 24 in x 12 in, 9 in x 24 in x 9 in	**35KU40**	**35KU41**
	54	6 in x 24 in x 12 in, 6 in x 24 in x 9 in	**35KU46**	**35KU47**
	54	6 in x 24 in x 12 in, 6 in x 24 in x 9 in	**35KU58** *	**35KU59** *
	78	6 in x 24 in x 9 in, 6 in x 24 in x 6 in	**35KU52**	**35KU53**

***Includes bin front.**

3 Openings
49H246

DURHAM MFG Est. 1922

Hose Coil Cabinets

- Steel construction
- Powder-coated finish

Vertical compartments hold coiled hoses to keep them organized and ready for use. Open front allows users to see contents at a glance.

Overall Width	Overall Depth	Overall Height	No. of Openings	Opening WxH	Item No.
Cabinets					
8 ½ in	24 ⅛ in	34 ⅞ in	1	7 ½ in x 34 ¾ in	**49H244**
13 ¾ in	24 ⅛ in	24 in	2	6 in x 24 in	**49H245**
21 ⅝ in	24 ⅛ in	24 in	3	6 in x 24 in	**49H246**
Base					
24 ¾ in	24 ¾ in	7 ½ in	—	—	**49H252**

DURHAM MFG Est. 1922

Aerosol Cabinet

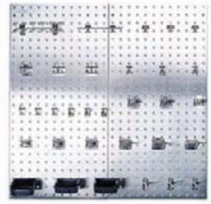
- Assembled
- Solid door
- Keyed lock

Holds up to 48 aerosol cans (12 oz.) and keeps them upright and organized. Shelves pull out to provide easy access. Holes on the top and bottom allow multiple cabinets to be securely stacked.

Overall Width	Overall Depth	Overall Height	Item No.
20 ¼ in	15 ¾ in	21 ¾ in	**49H243**

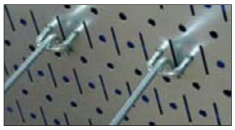
Pegboard Panels & Strips

These pegboard panels have round or square holes and mount to a wall. They accept a wide range of hooks, bins, shelves, toolholders, and other accessories. Square holes and can typically support more weight than round-hole pegboard panels. Narrow pegboard strips mount to a wall and take up less space than pegboard panels. Multiple panels can be mounted next to each other to expand the storage area. Kits include an assortment of hooks and other accessories that mount to the pegboard panels to create a storage system.



Square Hole Panel Kit 45MX05

Square Hole Pegboard Strip Kit 49WL46



Round, Slotted Hole Pegboard (Hooks not included)

Overall Width	Overall Depth	Overall Height	Tool Storage Space	Material	Panel Load Capacity	Whole Unit Load Capacity	▶CHOOSE: Color	Peg Hole Size	No. of Panels	Brand	Item No.
Pegboard Panel Kits											
Square Hole											
18 in	½ in	36 in	4.5 sq ft	Stainless Steel	250 lb	500 lb	Silver	9/32 in	2	Locboard	**45MX05**
18 in	½ in	36 in	4.5 sq ft	Steel	250 lb	500 lb	Blue	⅜ in	2	Locboard	**49WL35**
18 in	½ in	36 in	4.5 sq ft	Steel	250 lb	500 lb	Black	⅜ in	2	Locboard	**49WL36**
18 in	½ in	36 in	18 sq ft	Steel	120 lb	480 lb	Blue, Gray	⅜ in	4	Kennedy	**J5865**
24 in	½ in	24 in	4 sq ft	Steel	250 lb	500 lb	Blue	⅜ in	2	Locboard	**49WL38**
24 in	½ in	24 in	4 sq ft	Steel	250 lb	500 lb	White	⅜ in	2	Locboard	**49WL39**
24 in	½ in	42 in	7 sq ft	Stainless Steel	250 lb	500 lb	Silver	9/32 in	2	Locboard	**45MX22**
24 in	½ in	42 in	7 sq ft	Steel	250 lb	500 lb	White	⅜ in	2	Locboard	**49WL41**
24 in	½ in	42 in	7 sq ft	Steel	250 lb	500 lb	Blue	⅜ in	2	Locboard	**49WL42**
24 in	½ in	42 in	7 sq ft	Steel	250 lb	500 lb	Red	⅜ in	2	Locboard	**49WL43**
Round Hole											
18 in	⅛ in	22 in	2.75 sq ft	Polypropylene	40 lb	80 lb	White	⅛ in	2	Durahook	**45MX03**
24 in	⅛ in	48 in	8 sq ft	Hardwood	25 lb	25 lb	Brown	9/32 in	1	Tempered Wood Pegboard	**48RN20**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	25 lb	Black	9/32 in	1	Tempered Wood Pegboard	**48RN19**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	25 lb	White	9/32 in	1	Tempered Wood Pegboard	**48RN21**
Pegboard Panels											
Square Hole											
18 in	½ in	36 in	4.5 sq ft	Stainless Steel	250 lb	500 lb	Silver	9/32 in	2	Locboard	**45MX04**
18 in	½ in	36 in	9 sq ft	Steel	60 lb	120 lb	Blue, Gray	⅜ in	2	Kennedy	**J5864**
24 in	½ in	24 in	4 sq ft	Steel	250 lb	500 lb	White	⅜ in	2	Locboard	**36RE11**
24 in	½ in	24 in	4 sq ft	Steel	300 lb	600 lb	Blue, Red, Yellow, Gray, White	⅜ in	2	—	**G0589**
24 in	½ in	24 in	4 sq ft	Steel	300 lb	600 lb	Tan	9/32 in	2	—	**G0589**
24 in	½ in	42 in	7 sq ft	Stainless Steel	250 lb	500 lb	Silver	9/32 in	2	Locboard	**45MX21**
24 in	½ in	42 in	7 sq ft	Steel	400 lb	800 lb	Blue, Red, Yellow, Tan, Gray, White	⅜ in	2	—	**G0590**
Round Hole											
24 in	⅛ in	48 in	8 sq ft	Hardwood	25 lb	100 lb	Brown	¼ in	4	Tempered Wood Pegboard	**36RE13**
24 in	⅛ in	48 in	8 sq ft	Hardwood	25 lb	50 lb	Brown	¼ in	2	Tempered Wood Pegboard	**48RN17**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	50 lb	Black	¼ in	2	Tempered Wood Pegboard	**48RN16**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	50 lb	White	¼ in	2	Tempered Wood Pegboard	**48RN18**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	100 lb	Black	¼ in	4	Tempered Wood Pegboard	**48RN22**
24 in	⅛ in	48 in	8 sq ft	High-Density Fiberboard	25 lb	100 lb	White	¼ in	4	Tempered Wood Pegboard	**48RN23**
24 in	1 in	45 in	6 sq ft	Steel	300 lb	600 lb	Red	¼ in	2	Hallowell	**6XXV5**
48 in	⅛ in	96 in	32 sq ft	Polypropylene	250 lb	250 lb	White	9/32 in	1	Duraboard	**36RE10**
48 in	¼ in	24 in	8 sq ft	Hardwood	275 lb	425 lb	Brown	9/32 in	2	—	**6YE32**
48 in	¼ in	24 in	8 sq ft	Polypropylene	275 lb	525 lb	White	9/32 in	2	—	**2MRV2**
48 in	¼ in	24 in	8 sq ft	Polypropylene	275 lb	1,100 lb	White	9/32 in	4	—	**2MRV3**
60 in	1 in	45 in	18 sq ft	Steel	300 lb	600 lb	Red	¼ in	2	Hallowell	**6XXV6**
72 in	1 in	45 in	22 sq ft	Steel	300 lb	600 lb	Red	¼ in	2	Hallowell	**6XXV7**
Round, Slotted Hole											
48 in	¾ in	32 in	10.6 sq ft	Steel	200 lb	600 lb	Silver, Blue, White, Gray, Black, Red	¼ in, 1 in	3	Wall Control	**G0361**
96 in	¾ in	32 in	21.3 sq ft	Steel	200 lb	1,200 lb	Silver, Blue, White, Gray, Black, Red	¼ in, 1 in	6	Wall Control	**G0362**
Pegboard Strip Kits											
Square Hole											
18 in	½ in	4 ½ in	0.5 sq ft	Steel	15 lb	15 lb	Silver	⅜ in	1	Locboard	**49WL46**
32 in	½ in	9 in	2 sq ft	Steel	35 lb	35 lb	Silver	⅜ in	1	Locboard	**49WL52**
36 in	½ in	4 ½ in	1 sq ft	Steel	35 lb	35 lb	Silver	⅜ in	1	Locboard	**49WL48**

Round-Hole Pegboard Swing Panels

- Hold a large amount of tools and parts
- Mount multiple panels side-by-side for easy access
- Designed to pivot at the wall mounting

Swing panels mount to wall brackets that allow the panels to swing open and closed. Items can be stored and accessed on both sides of the panels, which allows these pegboards to hold more items than standard wall-mount pegboard panels. The swing panels have round holes that accept hooks, toolholders, and other accessories. Multiple panels can be mounted next to each other to expand the storage area. Include wall mounting bracket and hardware.

38P115 (Bins and other accessories sold separately.)

Overall Height	Overall Width	Overall Depth	Swing Radius	Number of Usable Sides	Panel Load Capacity	Color	Peg Hole Size	No. of Panels	Brand	Item No.
72 in	48 in	¼ in	56 in	1	575 lb	Tan	9/32 in	1	—	**6YB77**
	48 in	1 ½ in	56 in	2	575 lb	Brown	¼ in	1	Xtrawall	**38P118**
48 in	24 in	¼ in	33 in	1	275 lb	Tan	9/32 in	1	—	**6YB75**
	24 in	1 ½ in	33 in	2	575 lb	Brown	¼ in	1	Xtrawall	**38P115**
	24 in	1 ½ in	33 in	4	575 lb	Brown	¼ in	2	Xtrawall	**38P116**
	48 in	¼ in	56 in	1	475 lb	Tan	9/32 in	1	—	**6YB76**

Square-Hole Pegboard Floor Racks

TRESTON

Blue panels are held in a freestanding frame and do not need to be mounted to a wall. Items can be stored and accessed on both sides of the panels, which allows these pegboard racks to hold more items than standard wall-mount pegboard panels. Square-hole pegboard can typically support more weight than round-hole pegboard. These racks accept a wide range of hooks, bins, shelves, toolholders, and other accessories that are compatible with square-hole pegboard.

35YR18

Overall Height	Overall Width	Overall Depth	Number of Usable Sides	Panel Load Capacity	Peg Hole Size	Includes	No. of Panels	Item No.
84 in	40 in	42 in	2	220 lb	⅜ in	Casters	4	**35YR18**
72 in	30 in	2 ⅜ in	2	525 lb	⅜ in	(2) T-feet	6	**35YR69**
	30 in	2 ⅜ in	2	525 lb	⅜ in	T-feet	6	**35YR70**
	30 in	2 ⅜ in	2	525 lb	⅜ in	I-Feet	6	**35YR72**
	30 in	12 in	2	525 lb	⅜ in	L-Feet	6	**35YR71**
	37 in	½ in	1	220 lb	⅜ in	Caster, Hanging Hardware, Panel, Pull Handle	1	**35YR19**

5RXD2

A-Frame Mobile Pegboard Racks

A-frame mobile pegboard racks consist of pegboard panels in a freestanding A-shaped frame. Also known as pegboard trucks, they can be rolled for cleaning and repositioning. Items can be stored and accessed on both sides of the racks. These racks accept a wide range of hooks, bins, shelves, toolholders, and other accessories that are compatible with the shape of the holes on the pegboard.

Overall Width	Overall Depth	Overall Height	Tool Storage Space	Material	Panel Load Capacity	Whole Unit Load Capacity	Color	Peg Hole Size	Brand	Item No.
Round Hole										
48 in	24 in	56 in	32 sq ft	Steel	600 lb	1,200 lb	Gray	¼ in	—	19C143
30 in	48 in	51 in	32 sq ft	Aluminum, Polypropylene	100 lb	650 lb	White	¼ in	Duraboard	55KF68
30 in	54 in	57 in	30 sq ft	Steel	1,000 lb	2,000 lb	Gray	¼ in	—	5RXD2 *
24 in	36 in	56 in	27 sq ft	Steel	600 lb	1,200 lb	Gray	¼ in	—	19C142 *
Square Hole										
27 in	48 in	46 in	28 sq ft	Stainless Steel	150 lb	850 lb	Silver	⅜ in	Stainless Steel Locboard	55KF66
21 in	36 in	39 in	18 sq ft	Steel	150 lb	800 lb	White	⅜ in	Triton	49WL50
21 in	36 in	39 in	18 sq ft	Stainless Steel	150 lb	800 lb	Silver	⅜ in	Stainless Steel Locboard	55KF69

** With brake.*

Round Hole Pegboard Hook Assortment G0587

Pegboard Accessories

- Round and slotted accessories are for 1" hole spacing; square accessories are for 1½" hole spacing

These hooks, bins, and toolholders attach to pegboard and are used in various combinations to create pegboard storage systems for organizing and displaying small parts, tools, and merchandise. The accessories can be reconfigured or replaced as storage needs change.

Round-Hole Plastic Bin Kits and Shelf Tray—Yellow molded bins include mounting clips. Clips remain securely fastened to the board; bins are removable.

Square Hole Curved Pegboard Hook G0551

Square Hole Single Ring Tool Holder G0548

Square Hole Pegboard Hook G0527

For Pegboard Hole Size	No. of Hooks	▶CHOOSE: Locking System	Material	▶CHOOSE: Color	Brand	Pkg. Qty.	Item No.
Round							
Bin Kits							
—	—	Screw-In	Steel	Yellow	—	24	5TPP2
	—	Screw-In	Steel	Yellow	—	24	5TPP3
	—	Screw-In	Steel	Yellow	—	6	5TPP4
Bin Mounting Clip							
9/32 in	—	Screw-In	Steel	Silver	—	5	5TPF4
Curved Pegboard Hooks							
¼ in	—	Screw-In	Steel	Black	—	10	G0579
9/32 in	—	Screw-In	Steel	Silver	—	10	G0579
Double Closed Pegboard Hooks							
¼ in	—	Screw-In	Steel	Black	—	5	G0582
	—	Screw-In	Steel	Silver, Black	—	5	G0583
9/32 in	—	Screw-In	Steel	Silver	—	5	G0582
Double Rod Pegboard Hooks							
¼ in	—	Screw-In	Steel	Black	—	10	G0568
	—	Screw-In	Steel	Silver, Black	—	10	G0569
	—	Screw-In	Steel	Silver, Black	—	5	G0570
9/32 in	—	Screw-In	Steel	Silver	—	10	G0568
Extended Spring Clips							
¼ in	—	Screw-In	Steel	Black	—	10	G0572
	—	Screw-In	Steel	Black	—	10	G0573
9/32 in	—	Screw-In	Steel	Silver	—	10	G0573
Multi-Prong Tool Holders							
¼ in	—	Screw-In	Steel	Silver, Black	—	5	G0584
Multi-Ring Tool Holders							
¼ in	—	Screw-In	Steel	Silver, Black	—	2	G0585
Pegboard Hook Assortment Kits							
¼ in	20	Screw-In	Steel	Black	—	1	G0587
	26	Screw-In	Steel	Silver, Yellow, Black	—	1	G0586
	—	Screw-In	Steel	Silver, Yellow, Black	—	1	G0588
9/32 in	20	Screw-In	Steel	Silver, Yellow	—	1	G0587
Pliers/Wrench Tool Holders							
¼ in	—	Screw-In	Steel	Silver, Black	—	10	G0571
Shelf Tray							
—	—	Screw-In	Steel	Blue	—	1	6YB63
Single Ring Tool Holders							
¼ in	—	Screw-In	Steel	Silver, Black	—	10	G0577
Single Rod Pegboard Hooks							
¼ in	—	Screw-In	Steel	Silver, Black	—	10	G0564
	—	Screw-In	Steel	Silver, Black	—	10	G0561
	—	Screw-In	Steel	Black	—	10	G0562
	—	Screw-In	Steel	Black	—	10	G0565
	—	Screw-In	Steel	Silver, Black	—	5	G0567
	—	Screw-In	Steel	Silver, Black	—	10	G0560
	—	Screw-In	Steel	Silver, Black	—	10	G0563
	—	Screw-In	Steel	Silver, Black	—	10	G0566
9/32 in	—	Screw-In	Steel	Silver	—	10	G0565
Spray Can Holders							
¼ in	—	Screw-In	Steel	Black	—	5	G0574
9/32 in	—	Screw-In	Steel	Silver	—	5	G0574
Standard Spring Clips							
¼ in	—	Screw-In	Steel	Silver, Black	—	10	G0575
	—	Screw-In	Steel	Black	—	10	G0576
9/32 in	—	Screw-In	Steel	Silver	—	10	G0576
Slotted							
Slotted Toolboard Hook Kits							
1 in	11	Hanging	Steel	Red, Black	Wall Control	1	G0363
	20	Hanging	Steel	Red, Black	Wall Control	1	G0364
Toolboard Accessory Kits							
1 in	17	Hanging	Steel	Black	Wall Control	1	G0365
	29	Hanging	Steel	Red	Wall Control	1	G0365
Square							
Bin Mounting Clip							
⅜ in	—	Screw-In	Steel	Silver	—	5	6YE26
Curved Pegboard Hooks							
⅜ in	—	Screw-In	Steel	Silver	—	5	G0551
	—	Screw-In	Steel	Silver	—	5	G0552
Double Closed Pegboard Hooks							
⅜ in	—	Screw-In	Steel	Black, Silver	—	5	G0554
	—	Screw-In	Steel	Black, Silver	—	5	G0555
Double Rod Pegboard Hooks							
⅜ in	—	Screw-In	Steel	Black, Silver	—	5	G0537
	—	Screw-In	Steel	Silver	—	5	G0538
	—	Screw-In	Steel	Black, Silver	—	5	G0541
	—	Screw-In	Steel	Silver	—	5	G0536
	—	Screw-In	Steel	Black	—	5	G0539
	—	Screw-In	Steel	Black, Silver	—	5	G0540
Extended Spring Clips							
⅜ in	—	Screw-In, Hanging	Steel	Black, Silver	—	5	G0543
	—	Screw-In, Hanging	Steel	Black, Silver	—	5	G0544
	—	Screw-In, Hanging	Steel	Black, Silver	—	5	G0542
Multi-Prong Tool Holders							
⅜ in	—	Hanging	Steel	Silver	—	1	G0556
Pegboard Hook Assortment Kits							
⅜ in	46	Screw-In, Hanging	Steel	Black, Silver	—	1	G0558
	63	Screw-In, Hanging	Steel	Black, Silver	—	1	G0559
Pliers/Wrench Tool Holders							
⅜ in	—	Screw-In	Steel	Black, Silver	—	5	G0553
Shelf							
⅜ in	—	Yes	Steel	Gray	—	1	6YE21
Single Ring Tool Holders							
⅜ in	—	Hanging	Steel	Silver	—	5	G0548
	—	Screw-In, Hanging	Steel	Black, Silver	—	5	G0550
Single Rod Pegboard Hooks							
⅜ in	—	Screw-In	Steel	Silver	—	5	G0525
	—	Screw-In	Steel	Silver	—	5	G0527
	—	Screw-In	Steel	Black, Silver	—	5	G0531
	—	Screw-In	Steel	Black, Silver	—	5	G0532
	—	Screw-In	Steel	Black, Silver	—	5	G0534
	—	Screw-In	Steel	Black, Silver	—	5	G0528
	—	Screw-In	Steel	Black, Silver	—	5	G0529
	—	Screw-In	Steel	Black, Silver	—	5	G0533
	—	Screw-In	Steel	Silver	—	5	G0530
Spray Can Holders							
⅜ in	—	Hanging	Steel	Silver	—	5	G0547
Standard Spring Clips							
⅜ in	—	Hanging	Steel	Silver	—	5	G0545
	—	Screw-In	Steel	Black, Silver	—	5	G0546

35DT30
(Tools not included.)

FLOWWALL®

Slatwall Panel & Accessory Kits

Slatwall panels and racks have long horizontal grooves, or slats, and provide a more finished look than pegboard. Kits include 12" x 48" slatwall panels that mount to a wall and compatible accessories to create a storage system.

Material	Overall Width	Overall Depth	Overall Height	No. of Bins	No. of Hooks	SILVER Item No.	WHITE Item No.
6 Panels							
PVC	12 ft	¾ in	24 in	0	15	**35DT27**	—
PVC	96 in	¾ in	36 in	3	0	**35DT14**	**35DT15**
PVC	96 in	¾ in	36 in	0	14	**35DT08**	**35DT09**
PVC	96 in	¾ in	36 in	10	10	—	**35DT28**
12 Panels							
Nylon, Polypropylene, PVC, Steel	12 ft	¾ in	72 in	4	14	**35DT30**	—
PVC	96 in	¾ in	36 in	0	11	**35DT17**	**35DT18**

Four-Way, Maple
45KX35

Gondola, Maple
45KX33

Two-Way, White
45KX32

Rotating, White
45KX37

Slatwall Merchandiser Racks

These freestanding racks have slatwall on all sides and do not need to be mounted to a wall. Items can be stored and accessed on all sides of the racks, which allows for high-density display of merchandise in a compact footprint. These racks accept a wide range of hooks, shelves, and other accessories that are compatible with slatwall. They are used for organizing and displaying merchandise in retail stores. Constructed of medium-density fiberboard and melamine.

Item	No. of Panels	Overall Width	Overall Depth	Overall Height	Base W x L	MAPLE Item No.	WHITE Item No.
Two Way Merchandiser	2	24 in	24 in	54 in	24 in x 25 ½ in	**45KX31**	**45KX32**
Rotating Merchandiser	4	18 in	18 in	60 in	20 in x 20 in	**45KX91**	**45KX37**
Four Way Merchandiser	4	36 in	36 in	54 in	36 in x 36 in	**45KX35**	**45KX36**
Gondola Merchandiser	4	48 in	24 in	54 in	49 ½ in x 24 in	**45KX33**	**45KX34**

Double Hook
35DT56

Gravity Hook
35DT58

S-Hook
35DT57

X-Hook
35DT59

Merchandiser Shelf
45KX45

Hook
K3164

Faceout
K3163

Hook Waterfall
45KW77

FLOWWALL®

Slatwall Accessories

Overall Width	▶CHOOSE: Overall Depth	Overall Height	▶CHOOSE: Load Capacity	Material	Finish	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Slatwall Hooks, Baskets & Shelves									
Double Hooks									
2½"	4½"	4"	50 lb	Steel	Powder Coated	Black; Gray	Flow Wall	**35DT55**	6
	8½"	4"	40 lb	Steel	Powder Coated	Black; Gray	Flow Wall	**35DT56**	4
Gravity Hooks									
3½"	2"	4¼"	15 lb	Plastic	PVC Coated	Gray	Flow Wall	**35DT58**	3
Hooks									
¼"	1", 10", 4", 6", 8"	¼"	25 lb	Steel	Chrome	Silver	Econoco	**K3154**	96
	2"	¼"	25 lb	Steel	Chrome	Silver	Econoco	**45KX20**	96
	10", 6", 8"	¼"	25 lb	Steel	Satin Chrome	Silver	Econoco	**K3155**	96
½"	10", 12", 2", 4", 6", 8"	½"	15 lb	Steel	Semi Gloss	Black	Econoco	**K3156**	96
	12", 4", 6", 8"	½"	40 lb	Steel	Semi Gloss	White	Econoco	**K3157**	96
S-Hooks									
2½"	4½"	4½"	25 lb	Steel	Powder Coated	Black; Gray	Flow Wall	**35DT57**	4
X-Hooks									
1½"	2¼"	4½"	15 lb	Plastic	PVC Coated	Gray	Flow Wall	**35DT59**	10
Merchandiser Shelves									
8"	12"	¼"	10 lb	Steel	Semi Gloss	Black	Econoco	**45KX46**	6
12"	24"	¼"	10 lb	Steel	Semi Gloss	White	Econoco	**45KX48**	6
	24"	¼"	10 lb	Steel	Semi Gloss	White	Econoco	**45KX50**	6
	24"	¼"	10 lb	Steel	Semi Gloss	Silver	Econoco	**45KX51**	6
24"	12"	¼"	10 lb	Steel	Semi Gloss	Black	Econoco	**45KX45**	6
Shelves									
12"	24"	¾"	85 lb	Melamine, Wood	Matte	Black, Tan, White	Econoco	**K3158**	8
	48"	¾"	85 lb	Melamine, Wood	Matte	Black	Econoco	**45KW23**	4
	48"	¾"	85 lb	Melamine, Wood	Matte	Tan	Econoco	**45KW24**	4
	48"	¾"	85 lb	Melamine, Wood	Matte	White	Econoco	**45KW25**	4
14"	48"	¾"	85 lb	Melamine, Wood	Matte	Black, Tan, White	Econoco	**K3159**	4
Shelving Brackets									
⅛"	10", 12"	3"	40 lb	Steel	Shiny	Black	Econoco	**K3161**	48
	12"	3"	40 lb	Steel	Semi Gloss	Black	Econoco	**K3161**	48
	10", 12"	3"	35 lb	Steel	Chrome	Silver	Econoco	**K3160**	48
	12"	3"	40 lb	Steel	Semi Gloss	White	Econoco	**K3162**	48
	12"	3"	35 lb	Steel	Satin Chrome	Silver	Econoco	**45KW52**	48
Retail Hangers & Hangrails									
Faceouts									
⅛"	12"	3"	40 lb	Steel	Semi Gloss	Black	Econoco	**45KW76**	24
¼"	6"	1½"	35 lb	Steel	Satin Chrome	Silver	Econoco	**45KV24**	24
	12"	3"	35 lb	Steel	Matte	Black	Econoco	**45KV29**	24
	12"	1½"	35 lb	Steel	Chrome	Silver	Econoco	**K3163**	24
½"	12", 3"	1½"	35 lb	Steel	Chrome	Silver	Econoco	**K3163**	24
	12"	1½"	35 lb	Steel	Satin Chrome	Silver	Econoco	**45KV20**	24
	12"	½"	20 lb	Steel	Semi Gloss	Black	Econoco	**45KW63**	24
	12"	1½"	35 lb	Steel	Satin Chrome	Silver	Econoco	**45KW68**	24
Hooks									
½"	12", 4", 6", 9"	½"	10 lb	Steel	Chrome	Silver	Econoco	**K3164**	96
Hook Waterfalls									
⅛"	16"	3"	35 lb	Steel	Chrome	Silver	Econoco	**45KW84**	24
¼"	18"	1½"	35 lb	Steel	Chrome	Silver	Econoco	**45KV22**	24
½"	16"	1½"	35 lb	Steel	Chrome	Silver	Econoco	**45KW70**	24
3"	16"	½"	50 lb	Steel	Semi Gloss	Black	Econoco	**45KW77**	24
Rectangular Tubings									
½"	24"	1½"	20 lb	Steel	Satin Chrome	Silver	Econoco	**45KV52**	10
	24", 36", 60"	1½"	20 lb, 25 lb, 30 lb	Steel	Chrome	Silver	Econoco	**K3165**	10
Round Tubings									
1"	120", 96"	1"	50 lb, 45 lb	Steel	Chrome	Silver	Econoco	**K3166**	5
	48", 60", 72"	1"	30 lb, 35 lb, 40 lb	Steel	Chrome	Silver	Econoco	**K3166**	10
1¹⁄₁₆"	144"	1¹⁄₁₆"	50 lb	Steel	Chrome	Silver	Econoco	**45KV68**	5
1¼"	96"	1¼"	45 lb	Steel	Chrome	Silver	Econoco	**45KV78**	5
	120"	1¼"	50 lb	Steel	Chrome	Silver	Econoco	**45KV73**	5
	144"	1¼"	50 lb	Steel	Chrome	Silver	Econoco	**45KV74**	5
Square Tubings									
1"	96"	1"	45 lb	Steel	Chrome	Silver	Econoco	**45KV80**	5

Scan. Order. Done.
Details on page A1.

Includes 10 movable hooks.

Mobile Wire Grid Tool-Storage Rack 48GE61

Wire Shelf 8YF09

WESTWARD® METRO®

Wire Grid Panels, Racks & Accessories

- Hooks and shelves sold separately for customization

Mobile wire grid tool-storage rack consists of a wire grid panel on a mobile base. The racks can roll when they need to be brought to different areas in a facility or moved for cleaning or repositioning. These racks are used in garages, tool cribs, nurseries, and garden centers for storing tools with long handles, such as shovels. Includes 10 movable hooks.

Wire grid panels mount to a wall for efficient use of vertical space in kitchens, laboratories, supply closets, janitor's closets, and storage rooms while keeping floor spaces clear. Multiple panels can be mounted next to each other to expand the storage area. Mounting brackets, hooks and shelves sold separately.

Overall Width	Overall Depth	Overall Height	Finish	Color	Brand	Item No.
Mobile Wire Grid Tool-Storage Rack						
36 in	24 in	72 in	Powder Coated	Black	Westward	**48GE61**
Wall Grids, 3 in x 3 in Grid Opening						
36 in	½ in	18 in	Epoxy Coated	Green	Metro	**9MFF1**
	½ in	24 in	Epoxy Coated	Green	Metro	**8NN05**
	½ in	30 in	Epoxy Coated	Green	Metro	**8DY85**
48 in	½ in	18 in	Epoxy Coated	Green	Metro	**9WTV1**
	½ in	30 in	Epoxy Coated	Green	Metro	**8RNG1**
	½ in	24 in	Epoxy Coated	Green	Metro	**8DUE5**
60 in	½ in	18 in	Epoxy Coated	Green	Metro	**8DTK9**
Shelves, 50 lb Load Capacity						
29 ¼ in	19 ⅜ in	7 ¾ in	Epoxy Coated	Green	Metro	**8YF42**
35 ¼ in	15 ⅜ in	7 ¾ in	Epoxy Coated	Green	Metro	**9RZV9**
	19 ⅜ in	7 ¾ in	Epoxy Coated	Green	Metro	**8YF09**
47 ¼ in	15 ⅜ in	7 ¾ in	Epoxy Coated	Green	Metro	**8DVG9**
	19 ⅜ in	7 ¾ in	Epoxy Coated	Green	Metro	**9WUM8**
Hook, 50 lb Load Capacity						
1 ¼ in	7 ⅝ in	5 ⅝ in	Epoxy Coated	Green	Metro	**8DXZ5**

Floor-Standing Rack, 1-Sided 33Z144

Louvered Panel H4609 (Bins sold separately.)

Vertical Tape/Reel Holder 60TW31

QUANTUM™ STORAGE SYSTEMS AKRO-MILS®

Louvered Panels & Racks

- 16-ga. steel construction
- Bins sold separately

H	Overall W	D	Whole Unit Load Capacity	▶CHOOSE: Color	Brand	Item No.
Wall-Mount Louvered Panels Without Bins						
1-Sided						
12 in	36 in	¼ in	175 lb	Gray	Quantum	**33Z116**
20 in	18 in	5⁄16 in	140 lb	Gray	Akro-Mils	**H4608** *
	18 in	5⁄16 in	160 lb	White	Akro-Mils	**H4608** *
	18 in	¼ in	175 lb	Gray, White	Quantum	**G6998**
	36 in	5⁄16 in	160 lb	Beige, Gray, White	Akro-Mils	**H4609** *
	36 in	¼ in	175 lb	Gray, White	Quantum	**H4578**
	48 in	1 in	250 lb	Gray	Quantum	**33Z120**
21 in	27 in	¼ in	175 lb	Gray	Quantum	**33Z115**
30 in	36 in	1 in	175 lb	Chrome	Quantum	**49H199**
34 in	52 in	5⁄16 in	750 lb	Gray	Akro-Mils	**40L708**
36 in	18 in	1 in	175 lb	Chrome	Quantum	**49H198**
48 in	30 in	1 in	250 lb	Chrome	Quantum	**49H201**
61 in	18 in	5⁄16 in	500 lb	Gray	Akro-Mils	**1UMD7** *
	18 in	¼ in	175 lb	White	Quantum	**G6999**
	18 in	1 ½ in	175 lb	Gray	Quantum	**G6999**
	36 in	5⁄16 in	1,000 lb	Beige, Gray	Akro-Mils	**H3996** *
	36 in	1 in	500 lb	White	Quantum	**G7000**
	36 in	½ in	500 lb	Gray	Quantum	**G7000**
	48 in	1 in	500 lb	Gray, White	Quantum	**G7001**
Benchtop Louvered Racks Without Bins						
1-Sided						
12 in	36 in	¼ in	150 lb	Gray	Quantum	**33Z136**
20 in	18 in	¼ in	140 lb	Gray	Quantum	**33Z134**
	28 in	8 9⁄16 in	120 lb	Gray	Akro-Mils	**H4610**
	36 in	8 in	120 lb	Gray	Akro-Mils	**1UMD9**
	36 in	8 in	125 lb	Gray	Quantum	**33Z137**
21 in	27 in	¼ in	150 lb	Gray	Quantum	**33Z135**
2-Sided						
32 in	16 in	18 in	200 lb	Gray	Akro-Mils	**36MX76**
Floor-Standing Louvered Racks Without Bins						
1-Sided						
66 in	18 in	12 ½ in	375 lb	Gray	Quantum	**33Z144**
	36 in	12 in	800 lb	Gray	Quantum	**33Z145**
	36 in	13 ½ in	500 lb	Gray	Akro-Mils	**1UME2**
75 in	36 in	17 in	1,000 lb	Gray	Akro-Mils	**1UME5**
2-Sided						
66 in	36 in	25 in	1,000 lb	Gray	Akro-Mils	**1UME3**
	36 in	25 in	2,000 lb	Gray	Quantum	**33Z138**
75 in	36 in	32 in	2,000 lb	Gray	Akro-Mils	**4TJ79**
Vertical Mobile Louvered Racks Without Bins						
2-Sided						
72 in	36 in	24 in	1,200 lb	Gray	Quantum	**33Z139**

Item	Overall L	Overall W	Overall D	Load Capacity	Brand	Item No.
Louvered Panel Accessories						
Flat Shelf	—	36 in	12 in	75 lb	Quantum	**60TW26**
	—	36 in	18 in	75 lb	Quantum	**60TW28**
Slanted Shelf	—	36 in	12 in	75 lb	Quantum	**60TW27**
	—	36 in	18 in	75 lb	Quantum	**60TW29**
Horizontal Tape/Reel Holder	—	—	—	25 lb	Quantum	**60TW30**
Vertical Tape/Reel Holder	—	—	—	25 lb	Quantum	**60TW31**
9" Single Rod	9 in	—	—	15 lb	Quantum	**60TW32**
10" Double Rod	10 in	—	—	10 lb	Quantum	**60TW33**
Face-Out Hangrails	6 in	—	—	65 lb	Quantum	**60TW34**
	12 in	—	—	50 lb	Quantum	**60TW35**
Dolly for Louvered Floor Rack	37 in	25 in	—	700 lb	Akro-Mils	**1UME4**
Mobile Kit	—	—	—	800 lb	Quantum	**10E997**

*** Priced each, sold in cartons of 4 only.***

For more info about cabinet duty ratings, see page 1260.

DURHAM MFG Est. 1922 · Jamco Products · StrongHold

Hanging Bin Cabinets

Sturdy steel cabinets have louvered panels that hold multiple rows of plastic bins for separating and organizing parts, tools, and other items for quick access. Bins are removable making them easy to refill or carry to another location. Use for shared storage in garages, supply rooms, and warehouses.

Flush doors have louvered panels to hang bins on the door's interior side for additional storage.

Ventilated doors have metal-mesh panes that allow air to circulate and prevent buildup of moisture and fumes. Gives visibility to cabinet contents, to aid in loss prevention and inventory management.

Solid doors fully conceal contents and do not have louvered panels to hang bins.

Deep Box doors have extra depth for strength and rigidity. Louvered panels on the door allow hanging larger bins for additional storage.

Clearview doors have a see-through pane allowing full visibility to contents. Electronic keypad provides security and controls access.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	Door Type	Cabinet Color	Brand	Item No.
Heavy Duty								
72 in	36 in	24 in	126	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4899
	48 in	24 in	186	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4900
84 in	36 in	18 in	156	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4902
		24 in	138	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4901
Extra-Heavy Duty								
72 in	36 in	18 in	30	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4942
		18 in	36	Blue, Red, Yellow	Solid	Gray	Durham Mfg	K4888
		18 in	45	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4943
		24 in	30	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4944
		24 in	132	Blue, Red, Yellow	Deep Box	Gray	Durham Mfg	K4890
		24 in	132	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4889
	48 in	24 in	42	Blue	Ventilated	Gray	Durham Mfg	36FA24
		24 in	42	Red	Ventilated	Gray	Durham Mfg	36FA23
		24 in	176	Blue, Red, Yellow	Deep Box	Gray	Durham Mfg	K4892
		24 in	186	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4891
75 in	36 in	24 in	94	Yellow	Flush	Medium Gray	Strong Hold	61KG35
		24 in	126	Yellow	Flush	Medium Gray	Strong Hold	61KG33
	48 in	24 in	126	Yellow	Flush	Medium Gray	Strong Hold	61KG34
		24 in	144	Yellow	Flush	Medium Gray	Strong Hold	61KG36
78 in	36 in	24 in	18	Yellow	Ventilated	Black	Jamco	18H106
		24 in	30	Blue, Red, Yellow	Clearview, Solid	Gray	Durham Mfg	K4873
		24 in	114	Yellow	Flush	Black	Jamco	18H135
		24 in	122	Yellow	Deep Box	Black	Jamco	18H127
		24 in	132	Yellow	Flush	Gray	Durham Mfg	33VE20
		24 in	132	Yellow	Flush	Black	Jamco	18H131
		24 in	136	Yellow	Flush	Black	Jamco	18H139
	48 in	24 in	27	Yellow	Ventilated	Black	Jamco	18H107
		24 in	42	Blue, Red, Yellow	Clearview, Solid	Gray	Durham Mfg	K4874
		24 in	155	Yellow	Flush	Black	Jamco	18H136
		24 in	163	Yellow	Flush	Black	Jamco	18H128
		24 in	171	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4893
		24 in	173	Yellow	Flush	Black	Jamco	18H132
		24 in	176	Yellow	Flush	Black	Jamco	18H140
	60 in	24 in	27	Yellow	Ventilated	Black	Jamco	18H108
		24 in	54	Blue, Red, Yellow	Clearview, Solid	Gray	Durham Mfg	K4875
		24 in	187	Yellow	Flush	Black	Jamco	18H137
		24 in	199	Yellow	Flush	Black	Jamco	18H129
		24 in	214	Yellow	Flush	Black	Jamco	18H133
		24 in	230	Yellow	Flush	Black	Jamco	18H141
82 in	36 in	21 in	136	Yellow	Flush	Gray	Lyon	5JL49
84 in		18 in	156	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4894
		24 in	138	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4895
	48 in	24 in	192	Blue, Red, Yellow	Deep Box	Gray	Durham Mfg	K4896
	60 in	24 in	227	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4897
		24 in	227	Yellow	Flush	Gray	Durham Mfg	33VE46
	72 in	24 in	264	Blue, Red	Flush	Gray	Durham Mfg	K4898
		24 in	264	Yellow	Deep Box	Gray	Durham Mfg	3NYP3
Super Duty								
36 in	36 in	20 in	96	Yellow	Flush	Dark Gray	Strong Hold	40V703
	48 in	24 in	140	Yellow	Flush	Dark Gray	Strong Hold	40V705
42 in	36 in	20 in	124	Yellow	Flush	Dark Gray	Strong Hold	40V704
	48 in	24 in	180	Yellow	Flush	Dark Gray	Strong Hold	40V706
78 in	36 in	24 in	30	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4945
		24 in	94	Yellow	Flush	Dark Gray	Strong Hold	40V702
		24 in	126	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4903
		24 in	126	Yellow	Flush	Gray	Strong Hold	3THT3
	48 in	24 in	42	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4946
		24 in	162	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4904
		24 in	184	Yellow	Flush	Gray	Strong Hold	3THT4
		24 in	192	Yellow	Flush	Gray	Durham Mfg	33VE40
	60 in	24 in	54	Blue, Red, Yellow	Ventilated	Gray	Durham Mfg	K4947
		24 in	198	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4905
	72 in	24 in	240	Blue, Red, Yellow	Flush	Gray	Durham Mfg	K4906

Ventilated Doors
K4943
(Bins included. Other contents are not included.)

Deep Box Doors
18H127

Flush Doors
K4903

With Half Shelves
3THT7

WIth Shelves
K4920

DURHAM MFG Est. 1922
StrongHold

Hanging Bin Cabinets with Shelves

- Gray cabinet color

Durable steel cabinets are available in a variety of configurations with louvered panels to hold polypropylene bins and horizontal adjustable shelves to hold larger items. Select cabinets offer shelves in the door as well as in the interior.

Cabinets with half-shelves have a vertically divided interior offering half bins and half shelves for convenient storage.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	No. of Shelves	No. of Door Shelves	Door Type	Brand	Item No.
With Half-Shelves									
Super Duty									
78 in	36 in	24 in	60	Yellow	4	0	Flush, Solid	Durham Mfg	**33VE42**
	48 in	24 in	156	Yellow	4	0	Flush	Durham Mfg	**33VE44**
		24 in	165	Yellow	4	0	Flush	Strong Hold	**3THT7**
With Shelves									
Heavy Duty									
72 in	36 in	24 in	102	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4918**
	48 in	24 in	138	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4919**
Extra-Heavy Duty									
36 in		24 in	48	Yellow	2	6	Deep Box	Durham Mfg	**33VE22**
72 in	36 in	18 in	14	Blue, Red, Yellow	2	0	Solid	Durham Mfg	**K4908**
		18 in	15	Blue, Red, Yellow	2	0	Ventilated	Durham Mfg	**K4948**
		18 in	18	Blue, Red, Yellow	2	0	Ventilated	Durham Mfg	**K4949**
		24 in	15	Blue, Red, Yellow	2	0	Ventilated	Durham Mfg	**K4950**
		24 in	48	Yellow	10	6	Deep Box	Durham Mfg	**33VE23**
		24 in	64	Blue, Red, Yellow	8	6	Deep Box	Durham Mfg	**K4909**
		24 in	96	Blue, Red, Yellow	4	0	Deep Box	Durham Mfg	**K4910**
		24 in	102	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4911**
	48 in	18 in	24	Blue	2	0	Ventilated	Durham Mfg	**36FA12**
		24 in	6	Blue, Red, Yellow	3	0	Ventilated	Durham Mfg	**K4951**
		24 in	72	Yellow	10	6	Deep Box	Durham Mfg	**33VE28**
		24 in	84	Blue, Red, Yellow	8	6	Deep Box	Durham Mfg	**K4912**
		24 in	114	Yellow	6	6	Deep Box	Durham Mfg	**33VE26**
		24 in	128	Blue, Red, Yellow	4	0	Deep Box	Durham Mfg	**K4913**
		24 in	138	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4914**
78 in	36 in	24 in	16	Yellow	3	0	Solid	Durham Mfg	**33VE21**
	48 in	24 in	137	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4915**
	60 in	24 in	185	Yellow	3	0	Flush	Durham Mfg	**33VE45**
		24 in	185	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4916**
84 in	72 in	24 in	212	Blue, Red	3	0	Flush	Durham Mfg	**K4917**
		24 in	212	Yellow	3	0	Deep Box	Durham Mfg	**3NYP4**
Super Duty									
78 in	36 in	24 in	6	Blue, Red	3	0	Ventilated	Durham Mfg	**K4952**
		24 in	60	Blue, Red, Yellow	8	6	Flush	Durham Mfg	**K4920**
		24 in	96	Blue, Red	4	6	Flush	Durham Mfg	**K4921**
		24 in	96	Yellow	4	0	Flush	Strong Hold	**3THT1**
		24 in	96	Yellow	4	6	Flush	Durham Mfg	**33VE35**
		24 in	102	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4922**
		24 in	108	Yellow	3	0	Flush	Durham Mfg	**33VE32**
		24 in	120	Blue, Red, Yellow	4	0	Flush	Durham Mfg	**K4923**
		24 in	134	Blue, Red, Yellow	4	0	Flush	Durham Mfg	**K4924**
		24 in	164	Yellow	3	0	Flush	Strong Hold	**3THT5**
		36 in	12	Yellow	10	6	Deep Box, Solid	Durham Mfg	**33VE36**
		36 in	24	Yellow	4	0	Deep Box	Durham Mfg	**33VE39**
		36 in	36	Yellow	2	0	Deep Box	Durham Mfg	**33VE34**
		36 in	36	Yellow	4	0	Deep Box	Durham Mfg	**33VE43**
	48 in	24 in	6	Yellow	3	0	Ventilated	Durham Mfg	**K4952**
		24 in	18	Blue, Red, Yellow	3	0	Ventilated	Durham Mfg	**K4953**
		24 in	24	Blue, Red, Yellow	2	0	Ventilated	Durham Mfg	**K4954**
		24 in	84	Blue, Red, Yellow	8	6	Flush	Durham Mfg	**K4927**
		24 in	144	Yellow	4	0	Flush	Strong Hold	**3THT2**
		24 in	144	Yellow	4	0	Flush	Durham Mfg	**33VE31**
		24 in	164	Yellow	3	0	Flush	Strong Hold	**3THT6**
	60 in	24 in	156	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4929**
		36 in	188	Yellow	2	0	Flush	Strong Hold	**40V698**
	72 in	24 in	192	Blue, Red, Yellow	3	0	Flush	Durham Mfg	**K4931**
		24 in	199	Yellow	1	0	Flush	Strong Hold	**40V692**

Corrosion-Resistant
2RNF2

K4939

StrongHold
DURHAM MFG Est. 1922

Hanging Bin Cabinets with Shelves & Drawers

- Gray cabinet color

Standard steel cabinets are available in a variety of configurations with louvered panels to hold rows of polypropylene bins, drawers to keep loose items contained, and adjustable horizontal shelves to provide flat storage for larger items.

Corrosion-resistant cabinet is stainless steel to resist rusting in damp or humid environments.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	No. of Shelves	No. of Door Shelves	No. of Drawers	Door Type	Brand	Item No.
Corrosion-Resistant Bin Cabinets with Shelves & Drawers										
Super Duty										
78 in	36 in	24 in	110	Yellow	1	0	4	Flush	Strong Hold	**2RNF2**
Standard Bin Cabinets with Shelves & Drawers										
Extra-Heavy Duty										
72 in	36 in	24 in	52	Blue, Red, Yellow	13	12	4	Deep Box	Durham Mfg	**K4933**
	36 in	24 in	52	Blue, Red, Yellow	13	12	4	Flush	Durham Mfg	**K4932**
	36 in	24 in	58	Blue, Red, Yellow	13	12	4	Deep Box	Durham Mfg	**K4935**
	36 in	24 in	58	Blue, Red, Yellow	13	12	4	Flush	Durham Mfg	**K4934**
	36 in	24 in	69	Blue, Red, Yellow	13	12	4	Deep Box	Durham Mfg	**K4936**
	36 in	24 in	72	Blue, Red	13	12	4	Deep Box	Durham Mfg	**K4937**
	36 in	24 in	156	Blue, Red, Yellow	2	0	0	Flush	Durham Mfg	**K4938**
78 in	48 in	24 in	72	Yellow	13	12		Deep Box	Durham Mfg	**1UBJ5**
	48 in	24 in	69	Blue, Red, Yellow	13	12	4	Deep Box	Durham Mfg	**K4939**
	48 in	24 in	72	Blue, Red, Yellow	13	12	4	Flush	Durham Mfg	**K4940**
Super Duty										
78 in	36 in	24 in	110	Yellow	1	0	4	Flush	Strong Hold	**40V695**
	36 in	24 in	111	Yellow	1	0	4	Flush	Strong Hold	**2RNF1**
	36 in	24 in	120	Yellow	1	0	4	Flush	Durham Mfg	**33VE37**
	48 in	24 in	48	Yellow	3	0	7	Flush	Strong Hold	**40V697**
	48 in	24 in	144	Yellow	4	0	4	Flush	Strong Hold	**40V696**
	60 in	36 in	78	Yellow	2	0	4	Flush	Durham Mfg	**33VE41**

For more info about cabinet duty ratings, see page 1260.

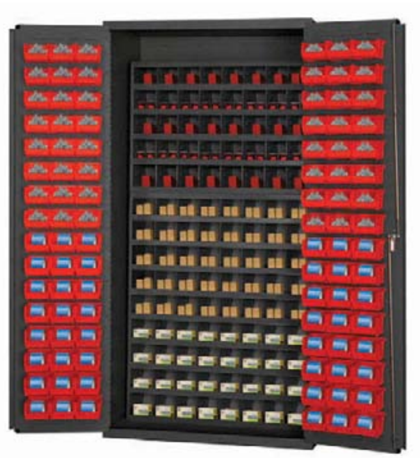
40V694
(Contents not included.)

Hanging Bin Cabinets with Pegboards

- Gray cabinet color
- Two interior shelves

Steel cabinets have louvered panels that hold rows of plastic bins for storing and organizing loose parts and items. Adjustable shelves provide flat storage for larger items. Upper back panel has pegboard that accepts hooks and other compatible accessories to create custom storage for tools and other items.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	Door Type	Brand	Item No.
Heavy Duty							
84 in	48 in	24 in	62	Yellow	Flush	Greene Manufacturing, Inc.	**40LF25**
Extra-Heavy Duty							
72 in	36 in	24 in	96	Blue, Red, Yellow	Flush	Durham Mfg	**K4941**
Super Duty							
78 in	48 in	24 in	144	Yellow	Flush	Strong Hold	**40V694**



Hanging Bin Cabinets with Pigeonhole Compartments

- Heavy duty
- Flush doors
- Gray cabinet color

Steel cabinets have an interior composed of 112 pigeonhole compartments that are ideal for sorting and organizing small parts and uniformly shaped items. Both doors are louvered to accommodate plastic bins for additional storage.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	Item No.
72 in	36 in	24 in	96	Blue, Red, Yellow	**K4907**

Without Shelves
K4881

With Shelves
K4886

Mobile Hanging Bin Cabinets

- Units with shelves have 2 full-width shelves
- Gray cabinet color

Sturdy steel cabinets are mounted on four 6" casters so they can easily be moved from one location to another. Convenient side handle helps when pushing or pulling the unit. Cabinet interiors are available without shelves to accommodate bins only or with shelves for a combination of bins and shelves for storing small and large items. Doors do not accommodate hanging bins. Ideal when parts are used in multiple areas of a facility, or when floor plans change frequently.

Overall Height	Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	Door Type	HEAVY DUTY Item No.	EXTRA-HEAVY DUTY Item No.	SUPER DUTY Item No.
Without Shelves								
80 in	36 in	24 in	30	Red, Blue, Yellow	Solid	**K4878**	**K4876**	**K4880**
	48 in	24 in	42	Red, Blue, Yellow	Solid	**K4879**	**K4877**	**K4881**
With Shelves								
80 in	36 in	24 in	12	Red, Blue, Yellow	Solid	—	**K4882**	**K4886**
	48 in	24 in	18	Red, Blue, Yellow	Solid	**K4884**	**K4883**	**K4887**
81 in	36 in	24 in	12	Red, Blue, Yellow	Flush	**K4885**	—	—

StrongHold

Space-Saving Shallow Bin Cabinets

- Dark gray cabinet color

Heavy-duty steel cabinets save space in tight areas with a narrow depth, slim body design. Cabinet interior is fully composed of bin storage. Solid doors do not accommodate bins.

Overall Height	Overall Width	Overall Depth	No. of Bins	Bin Color	Door Type	Item No.
72 in	48 in	10 in	187	Yellow	Solid	**40V713**

QUANTUM™ STORAGE SYSTEMS

High-Visibility Sloped-Shelf Bin Cabinets

- Gray cabinet color

Interior shelves are sloped forward to present bins at an angle, allowing users to view bins' contents more easily. Provides quick and easy access to frequently used items. Solid doors do not accommodate bins.

Overall Height	Overall Width	Overall Depth	No. of Bins	Bin Color	Door Type	Item No.
78 in	36 in	18 in	72	Yellow	Solid	**9DZ03**

Without Shelves
8FYW7

16 Shelves
1UBK4

DURHAM MFG Est. 1922 | Jamco Products | StrongHold

Stationary Customizable Bin Cabinets

- Bins sold separately for a customized cabinet

Rugged steel cabinets without bins allow user to configure cabinet to meet specific needs. Units are available with louvered panels to accommodate bins only or with a combination of louvered panels to accommodate bins as well as shelves for flexible storage options.

Flush doors have louvered panels to hang bins on the door's interior side for additional storage.

Deep Box doors have extra depth for strength and rigidity. Louvered panels on the door allow hanging larger bins for additional storage.

Overall Height	Overall Width	Overall Depth	Door Type	No. of Shelves	Cabinet Color	Brand	Item No.
Customizable Bin Cabinets							
Extra-Heavy Duty							
72 in	36 in	18 in	Solid	0	Gray	Durham Mfg	**8FYW7**
82 in		24 in	Deep Box	1	Black	Jamco	**18H190**
		24 in	Deep Box	1	Black	Jamco	**18H183**
	48 in	24 in	Deep Box	1	Black	Jamco	**18H191**
		24 in	Deep Box	1	Black	Jamco	**18H184**
	60 in	24 in	Deep Box	1	Black	Jamco	**18H192**
		24 in	Deep Box	1	Black	Jamco	**18H185**
Super Duty							
78 in	36 in	24 in	Flush	0	Dark Gray	Strong Hold	**40V690**
	48 in	24 in	Solid	0	Dark Gray	Strong Hold	**40V691**
Customizable Bin Cabinets with Shelves							
Extra-Heavy Duty							
72 in	36 in	24 in	Deep Box	16	Gray	Durham Mfg	**1UBK4**
	48 in	24 in	Deep Box	16	Gray	Durham Mfg	**1UBJ9**
		24 in	Deep Box	16	Gray	Durham Mfg	**33VE27**
78 in	36 in	24 in	Deep Box	16	Black	Jamco	**18H164**
	48 in	24 in	Deep Box	16	Black	Jamco	**18H165**
	60 in	24 in	Deep Box	16	Black	Jamco	**18H166**
84 in	48 in	24 in	Deep Box	18	Gray	Durham Mfg	**1UBJ4**
Super Duty							
78 in	36 in	24 in	Flush	4	Dark Gray	Strong Hold	**40V688**
	48 in	24 in	Flush	4	Dark Gray	Strong Hold	**40V689**

Overall Width	Overall Height	No. of Bins	Brand	12 in D OVERALL Item No.	12 in D OVERALL Whole Unit Load Capacity	12 in D OVERALL ▶CHOOSE: Bin Color	18 in D OVERALL Item No.	18 in D OVERALL Whole Unit Load Capacity	18 in D OVERALL ▶CHOOSE: Bin Color
With Closed-Front Drawer Bins									
7 Shelves									
36 in	39 in	36	Quantum	**E7214**	2,400 lb	Blue, Red	**E7216**	2,400 lb	Yellow
			Quantum	**E7214**	400 lb	Gray, Yellow	—	—	—
		54	Quantum	—	—	—	**E7217**	400 lb	Blue
10 Shelves									
36 in	39 in	54	Quantum	**E7215**	4,000 lb	Blue, Gray, Red	—	—	—
			Quantum	**E7214**		Yellow	—		—
13 Shelves									
36 in	75 in	36	Quantum	**E6883**	5,200 lb	Gray, Red, Yellow	—	—	—
		48	Quantum	**E6884**		Blue, Gray	**E6888**	5,200 lb	Blue, Gray, Red, Yellow
		72	Quantum	**D5587**		Blue, Gray, Red, Yellow	**D5599**		Blue, Gray, Red, Yellow
		90	Quantum	—	—	—	**D5601**		Blue, Gray, Red, Yellow
		108	Quantum	**D5586**	5,200 lb	Blue, Gray, Red, Yellow	**D5598**		Blue, Gray, Red, Yellow
19 Shelves									
36 in	75 in	108	Quantum	**E6887**	7,600 lb	Yellow	—	—	—
With Open-Front Hang and Stack Bins									
6 Shelves									
36 in	75 in	10	Quantum	—	—	—	**E1504**	2,400 lb	Black, Blue, Green, Red, Yellow
		12	Quantum	—		—	**E1496**	400 lb	Blue, Gray
			Quantum	—		—	**E1495**		Blue, Red
		15	Quantum	—		—	**E1502**	2,400 lb	Black, Blue, Ivory, Yellow
			Quantum	—		—	**E1494**	400 lb	Blue, Gray, Red
42 in		10	Quantum	—		—	**F1001**		Blue, Gray
7 Shelves									
36 in	75 in	24	Quantum	**E1499**	2,800 lb	Black, Blue, Red	**E1503**	2,800 lb	Black, Blue, Green, Red, Yellow
8 Shelves									
36 in	75 in	14	Quantum	**E1500**	3,200 lb	Black, Blue, Green, Red, Yellow	—	—	—
		21	Quantum	—	—	—	**E1501**	3,200 lb	Blue, Green, Red, Yellow
		28	Quantum	**E1497**	3,200 lb	Black, Blue, Ivory, Yellow	—	—	—
			Quantum	**E1498**		Blue, Green, Ivory, Red, Yellow	—		—
With Open-Front Indicator Bins									
13 Shelves									
36 in	79 in	60	Akro-Mils	**K6926**	6,500 lb	Black/Red, Blue/Orange	**K5256**	7,150 lb	Black/Red, Blue/Orange
		96	Akro-Mils	**K6927**		Black/Red, Blue/Orange	**45MV90**		Black/Red
With Open-Front Shelf Bins									
4 Shelves									
36 in	39 in	9	Quantum	**H2214**	1,600 lb	Blue, Red, Yellow	**G7425**	1,600 lb	Blue, Red
		12	Quantum	**G7417**		Blue, Red, Yellow	**G7424**		Blue, Yellow
		15	Quantum	**G7416**		Blue, Red, Yellow	—	—	—
		24	Quantum	**G7415**		Blue, Red, Yellow	**G7422**	1,600 lb	Blue, Yellow
5 Shelves									
36 in	39 in	12	Quantum	**G6985**	2,000 lb	Blue, Red, Yellow	**G6993**	2,000 lb	Blue, Red, Yellow
		16	Quantum	**G6984**		Blue, Red, Yellow	**G6992**		Blue, Yellow
		20	Quantum	**G6983**		Blue, Red, Yellow	**G6991**		Blue, Red
		32	Quantum	**G6982**		Blue, Red, Yellow	**G6990**		Blue, Yellow
7 Shelves									
36 in	39 in	18	Quantum	**E1514**	2,800 lb	Blue, Red, Yellow	**E1525**	400 lb	Black, Green
		24	Quantum	**E1513**		Black, Blue, Green, Ivory, Red, Yellow	**E1524**		Black, Blue, Green
			Quantum	—	—	—	**E1524**	2,400 lb	Ivory, Red, Yellow
		30	Quantum	**E1512**	2,800 lb	Black, Blue, Green, Ivory, Red, Yellow	**E1523**	400 lb	Blue, Green, Yellow
		48	Quantum	**E1511**		Black, Blue, Green, Red, Yellow	**E1522**		Black, Blue, Red, Yellow
		72	Quantum	**E1510**		Blue, Green, Yellow	—	—	—
8 Shelves									
36 in	75 in	21	Quantum	**G7421**	3,200 lb	Blue, Clear, Red, Yellow	**G7428**	3,200 lb	Blue, Clear
		28	Quantum	**G7420**		Blue, Clear, Red, Yellow	**H2213**		Blue, Clear, Red
		35	Quantum	**G7419**		Blue, Clear	**G7427**		Clear, Yellow
		56	Quantum	**G7418**		Blue, Clear	**G7426**		Blue, Clear
10 Shelves									
36 in	75 in	27	Quantum	**G6989**	4,000 lb	Blue, Red, Yellow	**G6997**	4,000 lb	Blue, Red, Yellow
		36	Quantum	**G6988**		Blue, Red, Yellow	**G6996**		Blue, Red, Yellow
		45	Quantum	**G6987**		Blue, Red, Yellow	**G6995**		Blue, Red, Yellow
		72	Quantum	**G6986**		Blue, Red, Yellow	**G6994**		Blue, Red, Yellow
13 Shelves									
36 in	75 in	36	Quantum	**E1509**	5,200 lb	Blue, Green, Ivory	**E1520**	5,200 lb	Blue, Yellow
		48	Quantum	**E1508**		Black, Blue, Green, Ivory, Red, Yellow	**E1517**		Blue, Yellow
		60	Quantum	**E1507**		Black, Blue, Green, Ivory, Red, Yellow	**E1516**		Blue, Red, Yellow
		96	Quantum	**E1506**		Black, Blue, Green, Ivory, Red, Yellow	**E1515**		Blue, Ivory, Red
		144	Quantum	**E1505**		Blue, Green	—	—	—
With Open-Front Stacking Bins									
6 Shelves									
42 in	75 in	10	Quantum	—	—	—	**E1531**	2,100 lb	Blue, Green, Red, Yellow
		15	Quantum	—		—	**E1530**		Blue, Green
7 Shelves									
42 in	75 in	16	Quantum	—	—	—	**D5571**	2,450 lb	Blue, Green, Red, Yellow
8 Shelves									
42 in	75 in	21	Quantum	—	—	—	**E1529**	2,800 lb	Blue, Green, Red, Yellow
10 Shelves									
42 in	75 in	27	Quantum	—	—	—	**E1528**	3,500 lb	Blue, Green, Red, Yellow

Overall Width	Overall Height	Brand	12 in D OVERALL Item No.	12 in D OVERALL Whole Unit Load Capacity	18 in D OVERALL Item No.	18 in D OVERALL Whole Unit Load Capacity
Without Bins						
8 Shelves						
42 in	75 in	Quantum	—	—	**1VH79**	—
13 Shelves						
36 in	75 in	Quantum	**8DDC3**	5,200 lb	**8DFJ4**	5,200 lb
	79 in	Akro-Mils	**6GDD1**	6,500 lb	**6GDF2**	—
			9GC55	6,500 lb	**8PJC1**	7,150 lb

6 Shelf with Hang and Stack BIns E1502

13 Shelves with Indicator Bins K5256

QUANTUM™ STORAGE SYSTEMS AKRO-MILS

Stationary Bin Shelving

- Gray steel frames

Metal units have multiple shelves that hold rows of plastic bins for separating and organizing parts, tools, and other items for quick access. Use for sorting and storing items in garages, supply rooms, and warehouses.

Closed-Front Drawer Bins—Drawer-style bins have four walls of equal height and smoothly slide in and out between shelves. Keep items securely contained and dust free. Shelving units have side panels to keep out dust and dirt.

Open-Front Hang and Stack Bins—Open hopper front with a lip. Back and side grips for easy handling. Can hang from rails or louvered panels and are stackable.

Open-Front Indicator Bins—Two-color bins have one brightly colored side so bins can be rotated to see at a glance when items have low inventory and need to be restocked.

Open-Front Shelf Bins—Raised front opening keeps items contained. Stackable.

Open-Front Stacking Bins—Heavy-duty bins with reinforced walls can hold large or heavy parts. Open hopper front.

Without Bins—Order bins separately to select the desired color, style, and quantity, starting on page 1291.

1-Sided with Drawer Bins
F1586

Stationary Pick Racks

- 36"W
- Gray steel frames

Sturdy freestanding racks have sloped shelving to hold multiple rows of plastic bins. Angled shelves keep items at the front of the bin for clear visibility and easy access to contents.

1-Sided—Units can stand flat against a wall to save space.

2-Sided—Units have shelves on both sides for more storage capacity and to allow access to items from either side.

Drawer Bins—Drawer-style bins with four walls of equal height to keep items securely contained. Drawers can be easily removed to refill or carry to another location.

Shelf Bins—Raised front opening keeps items contained while allowing easy access. Stackable.

Without Bins—Order bins separately to select the desired color, style, and quantity of compatible bins for specific applications.

2-Sided with Shelf Bins
E1549

Overall Depth	Overall Height	No. of Bins	▶CHOOSE: Bin Color	Whole Unit Load Capacity	Brand	Item No.
1-Sided with Bins						
Shelf Bins						
12 in	21 in	9	Black, Blue, Green, Ivory, Red, Yellow	250 lb	Quantum	**E1543**
		12	Black, Blue, Red, Yellow	250 lb	Quantum	**E1542**
		15	Black, Blue, Green, Ivory, Red, Yellow	250 lb	Quantum	**E1541**
		24	Black, Blue, Green, Ivory, Red, Yellow	250 lb	Quantum	**E1540**
		36	Black, Blue, Red, Yellow	250 lb	Quantum	**E1539**
	27 in	9	Blue, Red, Yellow	250 lb	Quantum	**G7015**
		12	Blue, Red, Yellow	250 lb	Quantum	**G7014**
		15	Blue, Red, Yellow	250 lb	Quantum	**G7013**
		24	Blue, Red, Yellow	250 lb	Quantum	**G7012**
	60 in	24	Black, Blue, Green, Ivory, Red, Yellow	400 lb	Quantum	**E1548**
		32	Black, Blue, Green, Ivory, Red, Yellow	400 lb	Quantum	**E1547**
		40	Black, Blue, Clear, Green, Ivory, Red, Yellow	400 lb	Quantum	**E1546**
		64	Black, Blue, Clear, Ivory, Red, Yellow	400 lb	Quantum	**E1545**
		96	Blue, Clear, Green, Red, Yellow	400 lb	Quantum	**E1544**
	64 in	24	Blue, Red, Yellow	400 lb	Quantum	**G7019**
		32	Blue, Red, Yellow	400 lb	Quantum	**G7018**
		40	Blue, Clear, Red, Yellow	400 lb	Quantum	**G7017**
		64	Blue, Red, Yellow	400 lb	Quantum	**G7016**
		64	Clear, Yellow	400 lb	Quantum	**K6928**
Drawer Bins						
12 in	21 in	18	Blue, Gray, Red, Yellow	250 lb	Quantum	**F1586**
	60 in	48	Blue, Gray, Yellow	400 lb	Quantum	**J0327**
2-Sided with Bins						
Shelf Bins						
24 in	60 in	48	Black, Clear, Ivory, Yellow	800 lb	Quantum	**E1553**
		128	Black, Blue, Clear	800 lb	Quantum	**E1550**
		144	Gray, Red	800 lb	Quantum	**K6931**
		192	Green	800 lb	Quantum	**E1549**
	64 in	48	Blue	800 lb	Quantum	**G7011**
		64	Blue, Red, Yellow	800 lb	Quantum	**G7010**
		80	Blue, Yellow	800 lb	Quantum	**G7009**
		128	Blue, Red, Yellow	800 lb	Quantum	**G7008**
30 in		58	Yellow	2,000 lb	Jamco	**16C713**
	66 in	58	Yellow	2,000 lb	Jamco	**16C698**
36 in	60 in	48	Blue, Red, Yellow	800 lb	Quantum	**K6932**
		64	Green	800 lb	Quantum	**493G60**
		80	Blue, Clear, Green	800 lb	Quantum	**K6933**
		96	Gray	800 lb	Quantum	**493G83**
	64 in	80	Blue, Red	800 lb	Quantum	**K6929**
		128	Red, Yellow	800 lb	Quantum	**K6930**
Drawer Bins						
24 in	60 in	96	Blue, Gray, Red, Yellow	800 lb	Quantum	**J0326**

2-Sided Without Bins
39H620

Overall Depth	Overall Height	Whole Unit Load Capacity	Brand	Item No.
1-Sided Without Bins				
12 in	25 in	150 lb	Akro-Mils	**2RV76**
	60 in	400 lb	Akro-Mils	**2RV75**
18 in		900 lb	Akro-Mils	**39H621**
2-Sided Without Bins				
24 in	60 in	800 lb	Akro-Mils	**2RV77**
36 in		1,800 lb	Akro-Mils	**39H620**

With Drawer Bins
J0326

Shelf Bins
16C698

Mobile Pick Racks

- 36"W
- Gray steel frames

Racks are mounted on four casters so they can be easily moved from one location to another. Ideal when items are used in multiple areas of a facility or floor plans change frequently. Racks are 2-sided with shelves on both sides to allow access to items from either side.

Drawer Bins—Drawer-style bins have four walls of equal height to keep items securely contained. Drawers can be easily removed to refill or carry to another location.

Shelf Bins—Raised front opening keeps items contained while allowing easy access. Stackable.

Overall Depth	Overall Height	No. of Bins	▶CHOOSE: Bin Color	Whole Unit Load Capacity	No. of Shelves	Brand	Item No.
Drawer Bins							
24 in	60 in	96	Blue, Gray, Red, Yellow	800 lb	16	Quantum	**J0326**
Shelf Bins							
30 in	66 in	58	Yellow	2,000 lb	6	Jamco	**16C698**

StrongHold QUANTUM™ STORAGE SYSTEMS AKRO-MILS

Stationary Bin Rail Racks

- Gray steel frames

Freestanding frames have horizontal steel rails for hanging rows of compatible bins to store and organize small parts and items for easy access. Rail racks can accommodate bins of different depths and sizes on each rail offering flexibility as storage needs change.

1-Sided—Units can stand flat against a wall to save space.

2-Sided—Bins can hang on both sides of rail for more storage capacity and to allow access to items from either side.

Without Bins—Order bins separately to select the desired color, style, and quantity of compatible bins for specific applications.

Overall Depth	Overall Height	No. of Bins	▶CHOOSE: Bin Color	Whole Unit Load Capacity	Brand	Item No.
1-Sided With Hang and Stack Bins						
14 in	75 in	210	Blue	2,100 lb	Strong Hold	**40V714**
15 in	54 in	24	Black, Blue, Clear, Green, Ivory, Red, Yellow	600 lb	Quantum	**F1613**
	54 in	46	Black, Blue, Clear, Green, Ivory, Red, Yellow	600 lb	Quantum	**E1534**
	54 in	48	Black, Blue, Clear, Green, Ivory, Red, Yellow	600 lb	Quantum	**E1532**
	54 in	96	Black, Blue, Clear, Green, Ivory, Red, Yellow	600 lb	Quantum	**F1609**
20 in	54 in	96	Black, Blue, Clear, Green, Ivory, Red, Yellow	1,600 lb	Quantum	**E1536**
36 in	54 in	12	Black, Blue, Green, Ivory, Red, Yellow	600 lb	Quantum	**F1614**
	54 in	96	Black, Blue, Green, Ivory, Red, Yellow	600 lb	Quantum	**F1608**
2-Sided With Hang and Stack Bins						
20 in	54 in	48	Black, Blue, Clear, Green, Ivory, Red, Yellow	1,600 lb	Quantum	**E1537**
	54 in	192	Black, Blue, Clear, Green, Ivory, Red, Yellow	1,600 lb	Quantum	**E1535**
30 in	54 in	48	Clear	500 lb	Akro-Mils	**40K462**

Overall Depth	Overall Height	Whole Unit Load Capacity	Brand	Item No.
1-Sided Without Bins				
15 in	54 in	600 lb	Quantum	**33Z143**
	54 in	600 lb	Quantum	**33Z141**
36 in	54 in	250 lb	Akro-Mils	**3AA11**
2-Sided Without Bins				
20 in	54 in	1,600 lb	Quantum	**33Z142**
	54 in	1,600 lb	Quantum	**33Z140**
36 in	54 in	500 lb	Akro-Mils	**5YM90**

1-Sided with Bins E1534

2-Sided with Bins 40K462

2-Sided Without Bins 5YM90

StrongHold QUANTUM™ STORAGE SYSTEMS

Mobile Bin Rail Racks

- 2-sided
- Hang and stack bins included
- Gray steel frames

Racks are mounted on four casters so they can be easily moved from one location to another. Ideal when items are used in multiple areas of a facility or floor plans change frequently. Sturdy frames have horizontal steel rails for hanging rows of compatible bins to store and organize small parts and items for easy access. Bins can hang from both sides of the rail to allow access to items from either side.

F1601

40V717

Overall Width	Overall Depth	Overall Height	No. of Bins	Number of Rails	Bin Depth	▶CHOOSE: Bin Color	Whole Unit Load Capacity	Brand	Item No.
20 in	36 in	53 in	24	12	14 ¾ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1605**
			48	12	10 ¾ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1603**
			48	12	14 ¾ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1604**
			48	16	10 ⅞ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1602**
			96	16	7 ⅜ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1601**
			192	12	5 ⅜ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1599**
			192	12	7 ⅜ in	Black, Blue, Green, Ivory, Red, Yellow	1,000 lb	Quantum	**F1600**
37 in	28 in	48 in	40	5	14 ¾ in	Yellow	1,200 lb	Strong Hold	**40V717**

5 Shelves with Giant Hopper Bins D5365

6 Shelves with Hang-and-Stack Bins D5366

AKRO-MILS A Myers Industries Company

QUANTUM™ STORAGE SYSTEMS

Stationary Wire Bin Shelving

- 74"H
- Steel frames with chrome finish

Steel wire shelving allows air, liquids, dust, and debris to pass through for ventilation and to keep shelves clean. Freestanding units hold multiple rows of bins to store tools, parts, and supplies. Efficiently utilize vertical space in supply rooms, stock rooms, and other storage areas.

Open-Front Giant Hopper Bins—Heavy-duty bins are made to hold large, bulky, or heavyweight items and tools. Open hopper front for easy access to contents.

Open-Front Hang and Stack Bins—Open hopper front with a lip. Back and side grips for easy handling. Can hang from rails or louvered panels and are stackable.

Open-Front Indicator Bins—Two-color bins have one brightly colored side so bins can be rotated to see at a glance when items have low inventory and need to be restocked.

Open-Front Shelf Bins—Raised front opening keeps items contained. Stackable.

Overall Width	Overall Depth	No. of Bins	▶CHOOSE: Bin Color	Whole Unit Load Capacity	Brand	Item No.
Open-Front Giant Hopper Bins						
5 Shelves						
48 in	18 in	8	Blue, Red, Yellow	2,000 lb	Akro-Mils	**D5365**
48 in	18 in	12	Blue, Red, Yellow	2,000 lb	Akro-Mils	**D5364**
7 Shelves						
48 in	18 in	18	Blue, Red, Yellow	2,000 lb	Akro-Mils	**D5363**
8 Shelves						
36 in	24 in	28	Clear	2,000 lb	Akro-Mils	**40K507**
9 Shelves						
48 in	18 in	24	Blue, Red, Yellow	2,000 lb	Akro-Mils	**D5362**
Open-Front Hang and Stack Bins						
4 Shelves						
36 in	14 in	18	Black, Blue, Clear, Gray, Red, Yellow	2,000 lb	Akro-Mils	**D5521**
36 in	14 in	36	Black, Blue, Clear, Gray, Red, Stone, Yellow	2,000 lb	Akro-Mils	**D5519**
5 Shelves						
36 in	18 in	8	Blue, Red	800 lb	Quantum	**E3964**
36 in	18 in	9	Black, Blue, Clear, Gray, Red, Yellow	2,000 lb	Akro-Mils	**D5367**
36 in	18 in	10	Blue, Gray, Red	4,000 lb	Quantum	**F1593**
36 in	18 in	12	Blue, Clear	4,000 lb	Quantum	**F1590**
42 in	18 in	8	Blue, Clear, Red	800 lb	Quantum	**F1591**
42 in	24 in	8	Clear	4,000 lb	Quantum	**6GAR4**
42 in	30 in	8	Blue, Yellow	600 lb	Quantum	**D5607**
6 Shelves						
36 in	18 in	15	Gray, Ivory, Red	4,800 lb	Quantum	**G7064**
36 in	18 in	20	Black, Blue, Gray, Yellow	4,800 lb	Quantum	**E3963**
36 in	24 in	10	Clear, Yellow	4,800 lb	Quantum	**D5605**
36 in	24 in	13	Clear	4,800 lb	Quantum	**6GAR3**
36 in	24 in	15	Clear	4,800 lb	Quantum	**6GAR1**
36 in	30 in	13	Blue, Red, Yellow	4,800 lb	Quantum	**D5606**
48 in	18 in	16	Black, Blue, Gray, Red, Yellow	4,800 lb	Quantum	**H7038**
48 in	18 in	24	Black, Blue, Clear, Gray, Red, Stone, Yellow	2,000 lb	Akro-Mils	**D5366**
48 in	24 in	16	Blue, Red, Yellow	4,800 lb	Quantum	**H7037**
7 Shelves						
36 in	24 in	20	Blue, Clear, Yellow	5,600 lb	Quantum	**D5604**
36 in	24 in	24	Clear	5,600 lb	Quantum	**6GAP9**
8 Shelves						
36 in	12 in	28	Blue, Gray, Yellow	6,400 lb	Quantum	**G7065**
36 in	14 in	14	Black, Blue, Yellow	6,400 lb	Quantum	**G7067**
36 in	14 in	28	Blue, Red, Yellow	6,400 lb	Quantum	**G7066**
36 in	18 in	21	Blue	6,400 lb	Quantum	**33Z212**
36 in	24 in	24	Clear	6,400 lb	Quantum	**6GAP8**
Open-Front Indicator Bins						
12 Shelves						
36 in	14 in	60	Black/Red	2,000 lb	Akro-Mils	**45MV94**
36 in	14 in	96	Black/Red	2,000 lb	Akro-Mils	**45MV93**
36 in	18 in	60	Black/Red, Blue/Orange	6,600 lb	Akro-Mils	**K6934**
36 in	18 in	96	Black/Red, Blue/Orange	6,600 lb	Akro-Mils	**K6935**
Open-Front Shelf Bins						
8 Shelves						
24 in	36 in	21	Blue	6,400 lb	Quantum	**493G53**
24 in	36 in	21	Clear	6,400 lb	Quantum	**493G55**
24 in	36 in	21	Red, Yellow	6,400 lb	Quantum	**K6944**
36 in	12 in	21	Black, Blue, Gray, Orange	6,400 lb	Quantum	**G7070**
36 in	12 in	28	Orange	6,400 lb	Quantum	**G7069**
36 in	14 in	21	Blue	6,400 lb	Quantum	**G7073**
36 in	14 in	28	Blue	6,400 lb	Quantum	**G7072**
36 in	18 in	21	Black	6,400 lb	Quantum	**G7076**
36 in	18 in	28	Blue	6,400 lb	Quantum	**G7075**
36 in	18 in	35	Gray	6,400 lb	Quantum	**G7074**
36 in	21 in	21	Blue, Ivory	6,400 lb	Quantum	**G7079**
36 in	21 in	24	Orange	6,400 lb	Quantum	**G7078**
36 in	21 in	28	Blue, Orange	6,400 lb	Quantum	**G7077**
9 Shelves						
36 in	12 in	32	Blue, Yellow	7,200 lb	Quantum	**G7085**
36 in	12 in	40	Blue, Yellow	7,200 lb	Quantum	**G7081**
36 in	12 in	64	Blue	7,200 lb	Quantum	**G7080**
36 in	18 in	32	Blue	7,200 lb	Quantum	**G7086**
36 in	18 in	40	Blue	7,200 lb	Quantum	**G7083**
36 in	18 in	64	Red	7,200 lb	Quantum	**G7082**
12 Shelves						
36 in	12 in	44	Blue, Red, Yellow	9,600 lb	Quantum	**G7063**
36 in	12 in	55	Black, Blue, Clear, Gray, Red, Yellow	9,600 lb	Quantum	**G7061**
36 in	12 in	88	Black, Blue, Ivory	9,600 lb	Quantum	**G7060**
36 in	14 in	60	Red, Yellow	2,000 lb	Akro-Mils	**D5526**
36 in	14 in	96	Blue, Clear, Red, Yellow	2,000 lb	Akro-Mils	**D5527**
36 in	18 in	33	Clear	9,600 lb	Quantum	**6ECG4**
36 in	18 in	44	Black, Blue, Red	9,600 lb	Quantum	**E3959**
36 in	18 in	55	Black, Blue, Gray, Red	9,600 lb	Quantum	**E3958**
36 in	18 in	60	Blue, Red, Yellow	2,000 lb	Akro-Mils	**D5528**
36 in	18 in	88	Red, Yellow	9,600 lb	Quantum	**E3957**
36 in	18 in	96	Blue, Red	2,000 lb	Akro-Mils	**D5529**
36 in	24 in	33	Clear	9,600 lb	Quantum	**6ECG8**
36 in	24 in	55	Black, Blue, Clear	9,600 lb	Quantum	**G7062**
48 in	24 in	48	Clear	2,000 lb	Akro-Mils	**40K522**
48 in	24 in	60	Clear	2,000 lb	Akro-Mils	**40K523**
48 in	24 in	66	Clear	2,000 lb	Akro-Mils	**40K521**
Open-Front Stacking Bins						
5 Shelves						
36 in	18 in	8	Blue, Gray	2,000 lb	Akro-Mils	**G3473**
36 in	18 in	12	Blue, Gray	2,000 lb	Akro-Mils	**G3472**
36 in	18 in	14	Blue, Clear	2,000 lb	Akro-Mils	**G3474**
48 in	18 in	9	Blue	2,000 lb	Akro-Mils	**G3471**

AKRO-MILS

Mobile Wire Bin Shelving

- 6 two-sided shelves
- Steel frame with chrome finish

Steel wire shelving unit is mounted on four 5" swivel casters so it can be easily moved from one location to another. Ideal when items are used in multiple areas of a facility or floor plans change frequently. 2-sided open frame allows bins to be accessed from either side. Includes open front plastic bins.

Overall Width	Overall Depth	Overall Height	No. of Bins	Bin Color	Whole Unit Load Capacity	Item No.
60 in	24 in	68 in	30	Beige	2,000 lb	4KEV3

DURHAM MFG Est. 1922

Revolving Storage Bins

- Shelves rotate independently, even when fully loaded
- Gray powder-coated finish
- Easy to assemble

Rotating steel units offer more accessibility and visibility to contents than standard shelving units. Ideal for maximizing storage in tight spaces, while maintaining full access to items.

58" Scoop-Bottom Shelves 4TJ72

28" Flat Bottom Shelves 1XHK5

Overall Height	Overall Dia.	No. of Levels	Number of Bins per Shelf	Load Cap. per Level*	Compartment WxDxH	BINS Item No.	DIVIDERS Item No.	PANS Item No.
Scoop-Bottom Shelves								
57½ in	44 in	5	5	625 lb	26 ½ in x 19 ½ in x 9 ¾ in	**4TJ66**	—	—
57½ in	44 in	5	10	625 lb	14 in x 19 ½ in x 9 ¾ in	**4TJ67**	—	—
66⅜ in	58 in	5	10	2,000 lb	18 in x 25 in x 11 in	**4TJ72**	—	—
69½ in	44 in	6	5	625 lb	26 ½ in x 19 ½ in x 9 ¾ in	**4TJ65**	—	—
Flat-Bottom Shelves								
17⅜ in	17 in	4	4	60 lb	13 in x 7 ½ in x 3 ⅜ in	**1XHK2**	—	—
25⅜ in	17 in	6	4	60 lb	13 in x 7 ½ in x 3 ⅜ in	**1XHK3**	—	—
34⅛ in	28 in	5	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**38GT48**	**494L01**	—
40⅜ in	28 in	6	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**9GH68**	**494L01**	—
41⅜ in	17 in	10	4	60 lb	13 in x 7 ½ in x 3 ⅜ in	**1XHK4**	—	—
42 in	34 in	5	5	500 lb	21 in x 15 in x 7 in	**9T541**	**494K99**	**1TFR7**
46⅝ in	28 in	7	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**8DR05**	**494L01**	—
49¾ in	34 in	6	5	500 lb	21 in x 15 in x 7 in	**9DXA0**	**494K99**	**1TFR7**
52⅞ in	28 in	8	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**8DR07**	**494L01**	—
57½ in	34 in	7	5	500 lb	21 in x 15 in x 7 in	**1XHK6**	**494K99**	**1TFR7**
59⅛ in	28 in	9	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**1XHK5**	**494L01**	—
65½ in	34 in	8	5	500 lb	21 in x 15 in x 7 in	**8TTW2**	**494K99**	**1TFR7**
65¾ in	28 in	10	6	500 lb	14 ½ in x 12 in x 5 ¾ in	**8DRZ1**	**494L01**	—
65¾ in	44 in	5	5, 6	500 lb, 650 lb	28 in x 1 ⅝ in, 34 in x 1 ⅝ in, 44 in x 1 ⅝ in	**49H242**	—	—

*** Based on evenly distributed loads.***

Standard Base
J4615

Pallet Base
34AV05

Caster Base
4GVU5

Sectional Stacking Bin Units

Heavy-gauge welded steel units have rows of bin compartments stacked vertically. Commonly used to store and organize parts and hardware in industrial facilities. Units have high weight capacities for heavy parts, tools, and equipment.

Standard Base— Freestanding units have a closed base to prevent dust or dirt from accumulating underneath.

Pallet Base—Units have fork pockets that allow them to be lifted with a forklift or pallet jack and moved without emptying the bins.

Caster Base—Units are mounted on 4 casters and can roll to any location needed. Ideal when parts are used in mulitple areas of a facility.

Overall Width	Overall Depth	Overall Height	Compartment WxDxH	No. of Compart.	Whole Unit Load Capacity	▶CHOOSE: Color	Brand	Item No.
Standard Base								
5 ⅜ in H Base								
9 in	18¾ in	43½ in	9 in x 18 ¾ in x 7 ½ in	20	1,000 lb	Blue	Stackbin	**J4606**
13 in	37 in	48 in	7 ½ in x 15 ½ in x 6 in	40	1,000 lb	Gray, Blue	Stackbin	**J4602**
36 in	13 in	37 in	7 ½ in x 15 ½ in x 6 in	30	1,000 lb	Gray, Blue	Stackbin	**J4600**
37 in	13 in	42 in	7 ½ in x 15 ½ in x 6 in	35	1,000 lb	Gray, Blue	Stackbin	**J4601**
37 in	13 in	54 in	7 ½ in x 15 ½ in x 6 in	45	1,000 lb	Gray, Blue	Stackbin	**J4603**
37 in	13 in	60 in	7 ½ in x 15 ½ in x 6 in	50	1,000 lb	Gray, Blue	Stackbin	**J4605**
37 in	15 in	43½ in	9 in x 18 ¾ in x 7 ½ in	20	1,000 lb	Gray	Stackbin	**J4606**
37 in	15 in	51 in	9 in x 18 ¾ in x 7 ½ in	24	1,000 lb	Gray, Blue	Stackbin	**J4607**
37 in	15 in	58½ in	9 in x 18 ¾ in x 7 ½ in	28	1,000 lb	Gray	Stackbin	**J4608**
37 in	15 in	65½ in	9 in x 18 ¾ in x 7 ½ in	32	1,000 lb	Gray, Blue	Stackbin	**J4609**
37 in	20 in	44 in	12 in x 20 ½ in x 9 ½ in	12	1,000 lb	Gray, Blue	Stackbin	**J4610**
37 in	20 in	63 in	12 in x 20 ½ in x 9 ½ in	18	1,000 lb	Gray	Stackbin	**J4612**
37 in	20½ in	50⅜ in	12 in x 20 ½ in x 9 ½ in	15	1,000 lb	Gray, Blue	Stackbin	**J4611**
37 in	20½ in	59¼ in	12 in x 20 ½ in x 9 ½ in	18	1,000 lb	Blue	Stackbin	**J4612**
37 in	24 in	33 in	18 in x 24 in x 11 in	6	1,000 lb	Gray, Blue	Stackbin	**J4613**
37 in	24 in	44 in	18 in x 24 in x 11 in	8	1,000 lb	Gray, Blue	Stackbin	**J4614**
37 in	24 in	55 in	18 in x 24 in x 11 in	10	1,000 lb	Gray, Blue	Stackbin	**J4615**
58½ in	28 in	58½ in	9 in x 18 ¾ in x 7 ½ in	28	1,000 lb	Blue	Stackbin	**J4608**
Pallet Base								
3 ⅛ in H Base								
37 in	3⅛ in	35½ in	7 ½ in x 15 ½ in x 6 in	30	3,500 lb	Gray, Blue	Stackbin	**J4627**
37 in	3⅛ in	37⅛ in	9 in x 18 ¾ in x 7 ½ in	20	3,500 lb	Gray, Blue	Stackbin	**J4632**
37 in	3⅛ in	41 in	7 ½ in x 15 ½ in x 6 in	35	3,500 lb	Gray	Stackbin	**J4628**
37 in	3⅛ in	46½ in	15 ½ in x 7 ½ in x 6 in	40	3,500 lb	Gray, Blue	Stackbin	**J4629**
37 in	3⅛ in	50⅞ in	9 in x 18 ¾ in x 7 ½ in	28	3,500 lb	Gray, Blue	Stackbin	**J4634**
37 in	3⅛ in	52 in	7 ½ in x 15 ½ in x 6 in	45	3,500 lb	Gray, Blue	Stackbin	**J4630**
37 in	3⅛ in	57½ in	7 ½ in x 15 ½ in x 6 in	50	3,500 lb	Gray, Blue	Stackbin	**J4631**
37 in	18¾ in	44 in	9 in x 18 ¾ in x 7 ½ in	24	5,000 lb	Gray, Blue	Stackbin	**J4633**
37 in	18¾ in	57¾ in	9 in x 18 ¾ in x 7 ½ in	32	3,500 lb	Gray, Blue	Stackbin	**J4635**
37 in	20½ in	38 in	12 in x 20 ½ in x 9 ½ in	12	3,500 lb	Gray, Blue	Stackbin	**J4636**
37 in	20½ in	46⅞ in	12 in x 20 ½ in x 9 ½ in	15	3,500 lb	Gray, Blue	Stackbin	**J4637**
37 in	20½ in	55¾ in	12 in x 20 ½ in x 9 ½ in	18	3,500 lb	Gray, Blue	Stackbin	**J4638**
37 in	24 in	35⅛ in	18 in x 24 in x 11 in	6	3,500 lb	Gray, Blue	Stackbin	**J4639**
37 in	24 in	46 in	18 in x 24 in x 11 in	8	3,500 lb	Gray, Blue	Stackbin	**J4640**
37 in	24 in	50 in	18 in x 24 in x 11 in	10	3,500 lb	Gray, Blue	Stackbin	**J4641**
4 in H Base								
32 in	20 in	42 in	8 in x 15 in x 12 ½ in	12	2,400 lb	Gray	Little Giant	**34AV05**
32 in	20 in	42 in	10 ½ in x 15 in x 12 ½ in	9	2,400 lb	Gray	Little Giant	**34AV04**
32 in	20 in	42 in	16 in x 15 in x 12 ½ in	6	2,400 lb	Gray	Little Giant	**34AV03**
32 in	20 in	42 in	32 in x 15 in x 12 ½ in	3	2,400 lb	Gray	Little Giant	**34AV02**
Caster Base								
5 ⅜ in H Base								
37 in	5⅜ in	37⅞ in	18 in x 24 in x 11 in	6	2,000 lb	Gray, Blue	Stackbin	**J4624**
37 in	5⅜ in	40 in	9 in x 18 ¾ in x 7 ½ in	20	2,000 lb	Gray, Blue	Stackbin	**J4616**
37 in	5⅜ in	40⅞ in	12 in x 20 ½ in x 9 ½ in	12	2,000 lb	Gray, Blue	Stackbin	**J4621**
37 in	5⅜ in	48¼ in	18 in x 24 in x 11 in	8	2,000 lb	Gray, Blue	Stackbin	**J4625**
37 in	5⅜ in	53¾ in	9 in x 18 ¾ in x 7 ½ in	28	2,000 lb	Gray, Blue	Stackbin	**J4618**
37 in	5⅜ in	58⅝ in	12 in x 20 ½ in x 9 ½ in	18	2,000 lb	Gray, Blue	Stackbin	**J4623**
37 in	5⅜ in	58⅝ in	18 in x 24 in x 11 in	10	2,000 lb	Gray, Blue	Stackbin	**J4626**
37 in	5⅜ in	60½ in	9 in x 18 ¾ in x 7 ½ in	32	2,000 lb	Gray, Blue	Stackbin	**J4619**
37 in	18⅜ in	46⅞ in	9 in x 18 ¾ in x 7 ½ in	24	2,000 lb	Gray, Blue	Stackbin	**J4617**
37 in	20½ in	32 in	12 in x 20 ½ in x 9 ½ in	9	3,600 lb	Gray, Blue	Stackbin	**J4620**
37 in	20½ in	49¾ in	12 in x 20 ½ in x 9 ½ in	15	2,000 lb	Gray, Blue	Stackbin	**J4622**
7 ½ in H Base								
32 in	20 in	45½ in	8 in x 15 in x 12 ½ in	12	2,400 lb	Gray	Little Giant	**4GVU5**
32 in	20 in	45½ in	10 ½ in x 15 in x 12 ½ in	9	2,400 lb	Gray	Little Giant	**4GVU4**
32 in	20 in	45½ in	16 in x 15 in x 12 ½ in	6	2,400 lb	Gray	Little Giant	**4GVU3**
32 in	20 in	45½ in	32 in x 15 in x 12 ½ in	3	2,400 lb	Gray	Little Giant	**4GVU2**

Selecting Storage Bins

BIN TYPES

Hanging—A lip on the back of the bin allows it to hang from a rack, rail, or panel.

Stacking—Bins may be placed on top of one another to save space and create vertical storage.

Cross-Stacking (pg. 1292)—Compatible-sized bins can be stacked vertically or sideways.

Nesting (pg. 1293)—When empty, bins slide inside each other to save space.

Shelf (pg. 1293)—Bins have open tops and hopper fronts. Compatible with shelving and pick rack systems.

Indicator (pg. 1295)—Bins are two different colors with hopper openings at each end. Bins can be rotated and used to identify low inventory or stock levels.

Drawer (pg. 1295)—Bins are equal height on all 4 sides with an open top. Keep items contained and slide easily in and out of shelving units or pick racks.

Hopper Front (pg. 1296)—The most common type of bin with a partially open front that provides easy access to contents.

Tip-Out (pg. 1297)—Bins fit inside a frame and tilt forward for access to contents then tilt back inside frame when not in use.

BIN MATERIAL

Plastic—Can be constructed of a variety of man-made polymers and resins. Provide water, chemical, and rust resistance.

Wire Mesh (pg. 1292)—Allows air, liquid, dust, and dirt to pass through keeping the bin clean and dry. Offers instant visibility to contents.

Corrugated (pg. 1294)—Lightweight, inexpensive cardboard bins usually ship unassembled.

ESD (Electrostatic Discharge) Static-Control (pg. 1294)—Made with a conductive material that dissipates static energy and reduces the amount of electrostatic energy passed through the container to the items. Used for storing sensitive electrical equipment and components.

Recycled Plastic (pg. 1295)—Contain the minimum amount of post-consumer materials to qualify for green initiative applications, including reducing a business's carbon footprint or adapting to federal and state regulations.

Steel (pg. 1295)—Provides strength and rust resistance. Suited for use at high temperatures and in combustive environments.

45MV66

AKRO-MILS

QUANTUM™ STORAGE SYSTEMS

Clearview Hanging & Stacking Bins

- Clear plastic construction

See-through bins provide full visibility to contents. Back has a lip for hanging on louvered panels or rail systems. Same size bins are stackable. Molded slots to hold ID labels (labels not included).

Order optional dividers to create additional compartments within each bin. Dividers are black plastic and fit front-to-back within bin.

Overall Length	Overall Width	Overall Height	Load Capacity	AKRO-MILS BINS Item No.	AKRO-MILS BINS Optional Dividers	QUANTUM BINS Item No.	QUANTUM BINS Optional Dividers
5 ⅜ in	4 ⅛ in	3 in	10 lb	4KER2	8PCC3	10H836	8Y078
		3¼ in	10 lb	6GDL3	—	—	—
	11 in	3 in	60 lb	—	—	493G71	—
7 ⅜ in	4 ⅛ in	3 in	10 lb	4KER3	5KY85	10H837	9T480
	11 in	3 in	65 lb	—	—	493G76	—
9 ¼ in	6 in	5 in	20 lb	45MV66	—	10H838	33Z355
10 ¾ in	8 ¼ in	7 in	50 lb	4KER7	5KY87	10H844	9AFJ3
10 ⅞ in	4 ⅛ in	3¼ in	15 lb	6GDL7	—	—	—
		4 in	30 lb	4KER4	20XK04	10H839	8DA43
	5 ½ in	5 in	30 lb	4KER5	5KY86	10H840	9ME47
		5¼ in	25 lb	6GDL9	—	—	—
	11 in	5 in	50 lb	4KER6	5KY86	10H843	9ME47
	16 ½ in	5 in	60 lb	4KET2	5KY86	10H848	8C771
13 ⅝ in	8 ¼ in	6 in	60 lb	—	—	10H846	33Z356
		8 in	60 lb	—	—	10H847	33Z357
14 ¾ in	5 ½ in	5 in	50 lb	4KER8	20XK05	10H842	8PCC3
	8 ¼ in	7 in	60 lb	4KER9	5KY88	10H845	9NPP0
	16 ½ in	7 in	75 lb	4KET1	5KY88	10H849	9NPP0
16 in	11 in	8 in	75 lb	—	—	10H850	9ME48
18 in	8 ¼ in	9 in	60 lb	4KET4	5KY89	10H852	9WKE2
	11 in	10 in	75 lb	—	—	10H851	8C773
		10 in	60 lb	4KET3	20XK06	—	—
	16 ½ in	11 in	75 lb	4KET5	5KY90	10H853	8C774

F8648

K4956

AKRO-MILS

QUANTUM™ STORAGE SYSTEMS

Colored Hanging & Stacking Bins

- Plastic construction

Use bins to create color-coded storage systems to separate and distinguish items housed in the same area, such as tools and parts in workshops, electrical and plumbing supplies in maintenance closets, and hazardous and nonhazardous materials in medical environments. Back has a lip for hanging on louvered panels or rail systems. Same size bins are stackable. Molded slots for ID labels (labels not included).

Optional dividers are black plastic. Fit front-to-back in bins to create extra compartments within the bin.

►CHOOSE: Bin Color: Beige, Black, Blue, Green, Red, Yellow

Overall Length	Overall Width	Overall Height	Load Capacity	AKRO-MILS BINS Item No.	AKRO-MILS BINS Optional Dividers	QUANTUM BINS Item No.	QUANTUM BINS Optional Dividers
5 ⅜ in	4 ⅛ in	3 in	10 lb	F8648	5KY84	F0598	8Y078
	11 in	3 in	60 lb	—	—	K4955	—
7 ⅜ in	4 ⅛ in	3 in	10 lb	F8647	5KY85	F0599	9T480
	11 in	3 in	65 lb	—	—	K4956	—
9 ¼ in	6 in	5 in	20 lb	J4488	—	G7039	33Z355
10 ¾ in	8 ¼ in	7 in	50 lb	F8698	5KY87	F0604	9AFJ3
10 ⅞ in	4 ⅛ in	4 in	30 lb	F8685	20XK04	E1526	—
	5 ½ in	5 in	30 lb	F8657	5KY86	F0600	9ME47
	8 ¼ in	7 in	50 lb	F8698	5KY87	—	—
	11 in	5 in	50 lb	F8699	5KY86	F0603	9ME47
	16 ½ in	5 in	60 lb	F8695	5KY86	F0606	—
13 ⅝ in	8 ¼ in	6 in	75 lb	—	—	G7040	33Z356
		8 in	75 lb	—	—	G7041	33Z357
14 ¾ in	5 ½ in	5 in	50 lb	F8659	20XK05	F0602	—
	8 ¼ in	7 in	60 lb	F8697	5KY88	F0605	9NPP0
	16 ½ in	7 in	75 lb	F8696	5KY88	F0607	9NPP0
16 in	11 in	8 in	75 lb	—	—	F0608	9F060
18 in	8 ¼ in	9 in	60 lb	F8694	5KY89	F0610	—
	11 in	10 in	75 lb	—	—	F0609	—
		10 in	60 lb	F8691	20XK06	—	—
	16 ½ in	11 in	75 lb	F8693	5KY90	F0611	9CP07

For more info about bin types and materials, see page 1291.

2TB25

AKRO-MILS

QUANTUM™ STORAGE SYSTEMS

ESD Static-Control Hanging & Stacking Bins

- Black plastic construction

Reduce the amount of electrostatic energy passed through the bin to items inside. Ideal for handling, transporting, and storing static-sensitive parts and materials, such as computer chips, transistors, light-emitting diodes (LED), and electronic components. Molded-in label holders (labels not included).

Optional dividers are also made to protect sensitive electronic components. Fit front-to-back in bins to create extra compartments within the bin.

				AKRO-MILS BINS		QUANTUM BINS	
Overall Length	Overall Width	Overall Height	Stacking Cap.	Item No.	Optional Dividers	Item No.	Optional Dividers
5 ⅜ in	4 ⅛ in	3 in	10 lb	5ZK97	—	4RR35	8RHX9
7 ⅜ in	4 ⅛ in	3 in	10 lb	5ZK98	—	4RR36	8NAK3
10 ¾ in	8 ¼ in	7 in	50 lb	—	—	2TB25	8XCC3
10 ⅞ in	5 ½ in	5 in	30 lb	5ZK99	—	4RR37	8CJZ9
	11 in	5 in	50 lb	5ZL01	—	4RR38	11M588
14 ¾ in	8 ¼ in	7 in	60 lb	5ZL02	—	4RR39	11M589
	16 ½ in	7 in	75 lb	—	—	4RR40	8CK02
16 in	11 in	8 in	75 lb	—	—	2TB26	9F060
18 in	16 ½ in	11 in	75 lb	—	—	4RR42	9CP07

1NTW4

QUANTUM™ STORAGE SYSTEMS

Recycled Plastic Hanging & Stacking Bins

- 100% post-consumer recycled content
- Black color

Ideal for green initiative applications, including reducing a business's carbon footprint or adapting to federal and state regulations, with the minimum amount of post-consumer materials.

Optional dividers are not recycled plastic.

				QUANTUM BINS	
Overall Length	Overall Width	Overall Height	Weight Cap.	Item No.	Optional Dividers
5 ⅜ in	4 ⅛ in	3 in	10 lb	1NTV2	8Y078
7 ⅜ in	4 ⅛ in	3 in	10 lb	1NTV3	9T480
10 ¾ in	8 ¼ in	7 in	50 lb	1NTV9	—
10 ⅞ in	4 ⅛ in	4 in	30 lb	1NTV4	—
	5 ½ in	5 in	30 lb	1NTV5	9ME47
	11 in	5 in	50 lb	1NTV8	9ME47
	16 ½ in	5 in	60 lb	1NTW2	8C771
14 ¾ in	5 ½ in	5 in	50 lb	1NTV7	8PCC3
	8 ¼ in	7 in	60 lb	1NTW1	9NPP0
	16 ½ in	7 in	75 lb	1NTW3	9NPP0
16 in	11 in	8 in	75 lb	1NTW4	9F060
18 in	8 ¼ in	9 in	60 lb	1NTW6	9WKE2
	11 in	10 in	75 lb	1NTW5	8C773
	16 ½ in	11 in	75 lb	1NTW7	9CP07

49H191

QUANTUM™ STORAGE SYSTEMS

Heavy-Duty Wire-Mesh Hanging & Stacking Bins

- Steel wire mesh with chrome finish
- Hopper front

Bins are woven or welded from wire with an open mesh design that allows clear visibility of contents and lets air, liquids, and dust pass through. Commonly used to hold items that may leak or need to dry, like hoses, extension cords, and spray paint.

Optional dividers are open wire design with vertical wires to allow airflow between compartments.

				QUANTUM BINS	
Overall Length	Overall Width	Overall Height	Weight Cap.	Item No.	Optional Dividers
5 ¼ in	4 ¼ in	3 in	240 lb	49H189	35JG35
7 ¼ in	4 ¼ in	3 in	300 lb	49H190	35JG36
10 ½ in	8 in	7 in	200 lb	49H193	35JG38
10 ¾ in	5 ½ in	5 in	120 lb	49H191	35JG37
	11 in	5 in	190 lb	49H192	35JG37
14 ½ in	8 in	7 in	300 lb	49H194	35JG39
	16 ¼ in	7 in	85 lb	49H195	35JG39
18 ½ in	11 in	10¼ in	105 lb	49H196	35JG40
	17 in	11¼ in	140 lb	49H197	35JG40

G7006

QUANTUM™ STORAGE SYSTEMS

Cross-Stacking Bins

- Plastic construction
- Include molded-in label holders

Bins have open tops with open hoppers on both ends, making them ideal for workstations or environments where multiple people need to access items from different sides. Can be stacked both vertically and sideways, and nest when empty.

Optional dividers fit side-to-side within bins.

					QUANTUM BINS	
Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Weight Cap.	Item No.	Optional Dividers
9 ½ in	6 ⅝ in	5 in	Blue, Yellow	75 lb	G7007	11M560
	6 ⅝ in	5 in	Red	40 lb	33Z278	11M560
12 ½ in	6 ⅝ in	5 in	Blue, Yellow	75 lb	G7002	11M555
	6 ⅝ in	5 in	Red	40 lb	33Z273	11M555
	8 ⅜ in	5 in	Blue, Yellow	75 lb	G7003	11M556
	8 ⅜ in	5 in	Red	40 lb	33Z274	11M556
14 in	9 ¼ in	6½ in	Blue, Yellow	75 lb	G7004	11M557
	9 ¼ in	6½ in	Red	50 lb	33Z275	11M557
18 ½ in	6 ⅝ in	7 in	Blue	75 lb	2TB68	11M558
	6 ⅝ in	7 in	Red	60 lb	33Z276	11M558
	8 ⅜ in	7 in	Blue, Yellow	75 lb	G7006	11M559
	8 ⅜ in	7 in	Red	60 lb	33Z277	11M559

3HRZ9

AKRO-MILS

Nesting & Stacking Bins

- Plastic construction
- Black color

Open tops, hopper fronts, reinforced edges, and interior ribs allow bins to securely stack on each other. Bins can also nest within same-sized bins to store when not in use. Stacking bins help organize and expand storage without adding shelving units. Suited for use in warehouses, retail, and manufacturing facilities.

Overall Length	Overall Width	Overall Height	Weight Cap.	Item No.
8 ⅞ in	6 ⅝ in	5 in	6 lb	**3HRZ8**
11 ⅞ in	6 ⅝ in	5 in	12 lb	**3HRZ9**
	8 ⅜ in	5 in	15 lb	**3HTA2**
17 ⅞ in	6 ⅝ in	7 in	24 lb	**3HTA1**
	8 ⅜ in	7 in	24 lb	**3HTA3**

49H225

QUANTUM™ STORAGE SYSTEMS

AKRO-MILS

Clearview Plastic Shelf Bins

- Include label holders

See-through bins provide full visibility to contents. Bins have open tops, hopper fronts, and slide easily into compatible shelving and pick rack units to create rows of compartments for organization and storage. Suitable for storing similar-looking products within one area, and are commonly used in healthcare and manufacturing facilities, warehouses, and storage areas.

			QUANTUM BINS			AKRO-MILS BINS		
Overall Length	Overall Width	Overall Height	Item No.	Weight Cap.	Optional Dividers	Item No.	Weight Cap.	Optional Dividers
11 ⅝ in	2 ¾ in	4 in	**6GAR5**	50 lb	—	**40K437**	7 lb	—
	4 ⅛ in	4 in	**6GAR6**	50 lb	**8PCC8**	**40K438**	10 lb	**3A563**
		6 in	**49H214**	20 lb	**2ZMR2**	**40K450**	20 lb	**4KEX9**
	4 ⅜ in	8 in	**49H202**	30 lb	**33Z350**	—	—	—
	6 ⅝ in	4 in	**6GAR7**	50 lb	**8C964**	**40K441**	15 lb	**3A564**
		6 in	**49H215**	30 lb	**2ZMR3**	**40K454**	30 lb	**4KEY1**
		8 in	**49H203**	40 lb	**33Z351**	—	—	—
	8 ⅜ in	4 in	**6ECE7**	50 lb	**9WTC4**	**40K443**	15 lb	**3A565**
		6 in	**49H216**	50 lb	**2ZMR4**	**40K452**	35 lb	**10F123**
		8 in	**49H204**	60 lb	**33Z352**	—	—	—
	11 ⅛ in	4 in	**6ECE8**	50 lb	**8C965**	**40K446**	20 lb	**6A278**
		6 in	**49H217**	50 lb	**2ZMR5**	—	—	—
		8 in	**49H205**	60 lb	**33Z353**	—	—	—
17 ⅞ in	4 ⅛ in	4 in	**6ECE9**	50 lb	**8PCC8**	**40K440**	15 lb	**3A563**
	4 ⅜ in	6 in	**49H218**	40 lb	**2ZMR2**	—	—	—
	4 ⅛ in	6 in	—	—	—	**40K451**	25 lb	**4KEX9**
	4 ⅜ in	8 in	**49H206**	50 lb	**33Z350**	—	—	—
	6 ⅝ in	4 in	**6ECF0**	50 lb	**8C964**	**40K442**	20 lb	**3A564**
		6 in	**49H219**	40 lb	**2ZMR3**	**40K456**	35 lb	**4KEY1**
		8 in	**49H207**	50 lb	**33Z351**	—	—	—
	8 ⅜ in	4 in	**6ECF1**	50 lb	**9WTC4**	**40K444**	20 lb	**3A565**
		6 in	**49H220**	50 lb	**2ZMR4**	**40K453**	35 lb	**10F123**
		8 in	**49H208**	60 lb	**33Z352**	—	—	—
	11 ⅛ in	4 in	**6ECF2**	50 lb	**8C965**	**40K448**	20 lb	**6A278**
		6 in	**49H221**	60 lb	**2ZMR5**	—	—	—
		8 in	**49H209**	70 lb	**33Z353**	—	—	—
23 ⅝ in	4 ⅛ in	4 in	**6ECF3**	50 lb	**8PCC8**	**40K439**	20 lb	**3A563**
	4 ⅜ in	6 in	**49H222**	50 lb	**2ZMR2**	—	—	—
		8 in	**49H210**	60 lb	**33Z350**	—	—	—
	6 ⅝ in	4 in	**6ECF4**	50 lb	**8C964**	**40K445**	20 lb	**3A564**
		6 in	**49H223**	50 lb	**2ZMR3**	**40K455**	35 lb	**4KEY1**
		8 in	**49H211**	60 lb	**33Z351**	—	—	—
	8 ⅜ in	4 in	**6ECF5**	50 lb	**9WTC4**	**40K449**	20 lb	**3A565**
		6 in	**49H224**	65 lb	**2ZMR4**	**40J801**	35 lb	**10F123**
		8 in	**49H212**	75 lb	**33Z352**	—	—	—
	11 ⅛ in	4 in	**6ECF6**	50 lb	**8C965**	**40K447**	20 lb	**6A278**
		6 in	**49H225**	65 lb	**2ZMR5**	**40J782**	35 lb	—
		8 in	**49H213**	75 lb	**33Z353**	—	—	—

SSI SCHÄFER AKRO-MILS

Stacking Bins

- Sturdy plastic construction

Wide hopper fronts and side grips make bins suitable for storing bulky, odd-shaped, and heavy items for quick access. Same-sized bins can stack on each other to create stable, vertical storage on floors and shelving units.

SSI Schaefer bins have a molded-in label holder.

F8826

38HU93

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Weight Cap.	Brand	Item No.
6 ⅝ in	4 in	2 in	Blue	30 lb	Ssi Schaefer	**38HU92**
15 ¼ in	19 ⅞ in	12½ in	Blue, Clear, Gray, Red	75 lb	Akro-Mils	**F8828**
17 ½ in	10 ⅞ in	12½ in	Blue, Clear, Gray, Red	75 lb	Akro-Mils	**F8813**
	16 ½ in	12½ in	Blue, Clear, Gray, Red	75 lb	Akro-Mils	**F8826**
19 ⅝ in	6 ⅛ in	5⅝ in	Blue	44 lb	Ssi Schaefer	**38HU93**

F0620

QUANTUM™ STORAGE SYSTEMS

AKRO-MILS

Colored Plastic Shelf Bins

- Include molded-in label holders

Use to create color-coded storage systems to separate and distinguish items housed in the same area. Bins have open tops, hopper fronts, and slide easily into compatible shelving and pick rack units to create rows of compartments for organization and storage. Commonly used in warehouses, stock rooms, and manufacturing facilities.

			QUANTUM BINS				AKRO-MILS BINS			
Overall Length	Overall Width	Overall Height	Item No.	Load Capacity	▶CHOOSE: Color	Optional Dividers	Item No.	Load Capacity	▶CHOOSE: Color	Optional Dividers
11 ⅝ in	2 ¾ in	4 in	**F0612**	50 lb	Beige, Blue, Green, Red, Yellow	—	**F8465**	7 lb	Blue, Red, White, Yellow	—
	4 ⅛ in	4 in	**F0613**	50 lb		**8PCC8**	**F8466**	10 lb	Blue, Red, Yellow	**3A563**
		6 in	**D5563**	50 lb	Blue, Red, Yellow	**2ZMR2**	**D5522**	20 lb	Blue, Red	**4KEX9**
	4 ⅜ in	8 in	**G7026**	30 lb		**33Z350**	—	—	—	—
	6 ⅝ in	4 in	**F0614**	50 lb	Beige, Blue, Green, Red, Yellow	**8C964**	**F8464**	15 lb	Blue, Red, Yellow	**3A564**
		6 in	**E5729**	50 lb	Blue, Red, Yellow	**2ZMR3**	**D5523**	20 lb	Blue, Red	**4KEY1**
		8 in	**G7027**	40 lb		**33Z351**	—	—	—	—
	8 ⅜ in	4 in	**F0615**	50 lb	Beige, Blue, Green, Red, Yellow	**9WTC4**	**F8877**	15 lb	Blue, Red, Yellow	**3A565**
		6 in	**E5730**	50 lb	Blue, Red, Yellow	**2ZMR4**	**D5434**	35 lb	Blue, Red	**10F123**
		8 in	**G7032**	60 lb		**33Z352**	—	—	—	—
	11 ⅛ in	4 in	**F0616**	50 lb	Beige, Blue, Green, Red, Yellow	**8C965**	**F8874**	20 lb	Blue, Red, Yellow	**6A278**
		6 in	**E5731**	50 lb	Blue, Red, Yellow	**2ZMR5**	—	—	—	—
		8 in	**G7034**	60 lb		**33Z353**	—	—		—
12 in	8 ¼ in	7 in	**G7043**	60 lb	Beige, Black, Blue, Gray, Orange	**24K173**	—	—		—
	11 in	7 in	**G7044**	65 lb		**24K174**	—	—		—
14 in	6 in	7 in	**G7045**	55 lb		**24K172**	—	—		—
	8 ¼ in	7 in	**G7046**	60 lb		**24K173**	—	—		—
	11 in	7 in	**G7047**	65 lb		**24K174**	—	—		—
17 ⅞ in	4 ⅛ in	4 in	**F0617**	50 lb	Beige, Blue, Green, Red, Yellow	**8PCC8**	**F8462**	15 lb	Blue, Red, Yellow	**3A563**
		6 in	**E5732**	50 lb	Blue, Red, Yellow	**2ZMR2**	**D5524**	25 lb	Blue, Red	**4KEX9**
	4 ⅜ in	8 in	**G7028**	50 lb		**33Z350**	—	—	—	—
	6 ⅝ in	4 in	**F0618**	50 lb	Beige, Blue, Green, Red, Yellow	**8C964**	**F8476**	20 lb	Blue, Red, Yellow	**3A564**
		6 in	**F9082**	50 lb	Blue, Red, Yellow	**2ZMR3**	**D5525**	35 lb		**4KEY1**
		8 in	**G7029**	50 lb		**33Z351**	—	—	—	—
	8 ⅜ in	4 in	**F0619**	50 lb	Beige, Blue, Green, Red, Yellow	**9WTC4**	**F8876**	20 lb	Blue, Red, Yellow	**3A565**
		6 in	**E5733**	50 lb	Blue, Red, Yellow	**2ZMR4**	**D5435**	35 lb	Blue, Red	**10F123**
		8 in	**G7033**	60 lb		**33Z352**	—	—	—	—
	11 ⅛ in	4 in	**F0620**	50 lb	Beige, Blue, Green, Red, Yellow	**8C965**	**F8873**	20 lb	Blue, Red, Yellow	**6A278**
		6 in	**E5734**	50 lb	Blue, Red, Yellow	**2ZMR5**	—	—	—	—
		8 in	**G7035**	70 lb		**33Z353**	—	—		—
18 in	6 in	7 in	**G7048**	65 lb	Beige, Black, Blue, Gray, Orange	**24K172**	—	—		—
	8 ¼ in	7 in	**G7049**	70 lb		**24K173**	—	—		—
	11 in	7 in	**G7050**	85 lb		**24K174**	—	—		—
20 ½ in	8 ¼ in	7 in	**G7051**	70 lb		**24K173**	**2RV53**	60 lb	Beige	—
	11 in	7 in	**G7052**	85 lb		**24K174**	**2RV54**	75 lb		—
23 ⅝ in	4 ⅛ in	4 in	**F0621**	50 lb	Beige, Blue, Green, Red, Yellow	**9WEE5**	**F8872**	20 lb	Blue, Red, Yellow	**3A563**
		6 in	**E5735**	50 lb	Blue, Red, Yellow	**2ZMR2**	—	—	—	—
	4 ⅜ in	8 in	**G7030**	60 lb	Blue, Red	**33Z350**	—	—		—
	6 ⅝ in	4 in	**F0622**	50 lb	Beige, Blue, Green, Red, Yellow	**8C964**	**F8875**	20 lb	Blue, Red, Yellow	**3A564**
		6 in	**E5736**	50 lb	Blue, Red, Yellow	**2ZMR3**	**D5436**	35 lb	Blue, Red	**4KEY1**
		8 in	**G7031**	60 lb		**33Z351**	—	—	—	—
	8 ⅜ in	4 in	**F0623**	50 lb	Beige, Blue, Green, Red, Yellow	**9WTC4**	**F8871**	20 lb	Blue, Red, Yellow	**3A565**
		6 in	**E5737**	50 lb	Blue, Red, Yellow	**2ZMR4**	**H2373**	35 lb	Blue, Red	—
		8 in	**G7036**	75 lb		**33Z352**	—	—	—	—
	11 ⅛ in	4 in	**F0624**	50 lb	Beige, Blue, Green, Red, Yellow	**8C965**	**F8909**	20 lb	Blue, Red, Yellow	**6A278**
		6 in	**E5738**	50 lb	Blue, Red, Yellow	**2ZMR5**	**H2370**	35 lb	Blue, Red	—
		8 in	**G7037**	75 lb		**33Z353**	—	—	—	—

For more info about bin types and materials, see page 1291.

1W771

2W256

3W507

PCA PACKAGING CORPORATION OF AMERICA

Cardboard Shelf Bins

- Open hopper front
- Cardboard bin dividers available separately

Lightweight, economical bins store nuts, washers, and other small parts or nonfragile items. Easy to disassemble and lay flat when not in use for shipping or storage. Clean, white surface can be written on, eliminating the need for labels.

Overall Height	Overall Width	Item No.
6 in L Overall		
3 in	4 in	31AW55
9 in L Overall		
4 ½ in	2 in	31AW56
	4 in	31AW57
	6 in	31AW58
	8 in	31AW59
	12 in	31AW60
11 in L Overall		
4 ¾ in	2 ¼ in	1W765
	4 ¼ in	1W766
	6 ¼ in	1W767
	8 ¼ in	1W768
	12 ¼ in	1W769
	10 ¼ in	1W862
8 ½ in	4 ¼ in	1W955
	6 ¼ in	1W956
	8 ¼ in	1W957
4 ¾ in	16 ¼ in	2W254
17 in L Overall		
4 ¾ in	2 ¼ in	1W770
	4 ¼ in	1W771
	6 ¼ in	1W772
	8 ¼ in	1W836
8 ½ in	6 ¼ in	1W960
	8 ¼ in	1W961
4 ¾ in	10 ¼ in	2W255
	12 ¼ in	2W256
8 ½ in	4 ¼ in	3W506
	10 ¼ in	3W507
18 in L Overall		
4 ½ in	3 in	31AW61
23 in L Overall		
4 ¾ in	4 ¼ in	5W222
	6 ¼ in	5W223
	8 ¼ in	5W224
24 in L Overall		
10 in	11 in	31AW62

For Bin Width	Item No.	Pkg. Qty.
Corrugated Shelf Bin Dividers		
2 in, 3 in, 4 in	1W863	100
6 in, 7 in, 8 in	1W864	100

31AR30

PROTEKTIVE PAK
BURIED SHIELDING LAYER

ESD Static-Control Cardboard Shelf Bins

- Open hopper front
- Black color

Reduce the amount of electrostatic energy passed through the bin to the items inside. Use to handle, transport, and store static-sensitive components and materials, such as computer chips, transistors, and light-emitting diodes (LED). Lightweight, reusable, easy to disassemble and lay flat when not in use. Black rectangular cardboard lids are also ESD static-control.

Overall Height	Overall Width	Item No.
12 in L Overall		
4 ½ in	2 in	31AR30
	4 in	31AR31
18 in L Overall		
4 ½ in	2 in	31AR33
	4 in	31AR35
	6 in	31AR38
	8 in	31AR34
	12 in	31AR36
24 ¾ in L Overall		
4 ½ in	2 ¼ in	31AR40
	4 ¼ in	31AR32
	6 ¼ in	31AR37
	8 ¼ in	31AR39

Outside W	Item No.
ESD Conductive Lids	
11"	31AR57
13⅝"	31AR58
16"	31AR59

5LY64

QUANTUM™ STORAGE SYSTEMS

ESD Static-Control Plastic Shelf Bins

- Open hopper front
- Black color

Reduce the amount of electrostatic energy passed through the bin to the items inside. Made with a conductive material that dissipates static energy. Ideal for handling, transporting, and storing static-sensitive parts and materials, such as computer chips, transistors, light-emitting diodes (LED), and electronic components.

Optional dividers are also made to protect sensitive electronic components. Fit side-to-side in bins to create extra compartments within the bin.

Overall Length	Overall Width	Overall Height	Load Capacity	QUANTUM BINS Item No.	QUANTUM BINS Optional Dividers
11 ⅝ in	4 ⅛ in	4 in	50 lb	4RR27	8PCC8
	6 ⅝ in	4 in	50 lb	5LY63	8C964
17 ⅞ in	4 ⅛ in	4 in	50 lb	4RR28	8PCC8
23 ⅝ in	4 ⅛ in	4 in	50 lb	5LY64	8PCC8
	6 ⅝ in	4 in	50 lb	5LY65	8C964
	8 ⅜ in	4 in	50 lb	5LY66	9WTC4

1NTX1

QUANTUM™ STORAGE SYSTEMS

Recycled Plastic Shelf Bins

- 100% post-consumer recycled content
- Black color
- Include molded-in label holders
- Optional dividers sold separately in packs of 50 only

Qualify for green initiative applications, including reducing a business's carbon footprint or adapting to federal and state regulations, with the minimum amount of post-consumer materials.

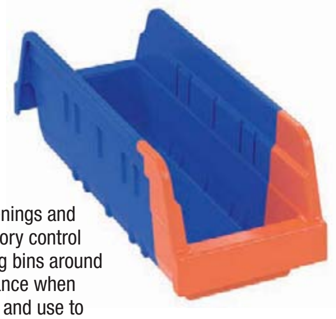
Optional dividers are not recycled plastic.

Overall Length	Overall Width	Overall Height	Load Capacity	QUANTUM BINS Item No.	QUANTUM BINS Optional Dividers
11 ⅝ in	2 ¾ in	4 in	50 lb	**1NTW9**	—
	4 ⅛ in	4 in	50 lb	**1NTX1**	**8PCC8**
	6 ⅝ in	4 in	50 lb	**1NTX2**	**8C964**
	8 ⅜ in	4 in	50 lb	**1NTX3**	**9WTC4**
	11 ⅛ in	4 in	50 lb	**1NTX4**	**8C965**
17 ⅞ in	4 ⅛ in	4 in	50 lb	**1NTX5**	**8PCC8**
	6 ⅝ in	4 in	50 lb	**1NTX6**	**8C964**
	8 ⅜ in	4 in	50 lb	**1NTX7**	**9WTC4**
	11 ⅛ in	4 in	50 lb	**1NTX8**	**8C965**
19 ¾ in	12 ⅜ in	5⅛ in	75 lb	**1NTY9**	—
		7⅞ in	75 lb	**1NTZ2**	—
		11⅞ in	75 lb	**1NTZ4**	—
	18 ⅜ in	11⅞ in	75 lb	**1UNJ2**	—
23 ⅝ in	4 ⅛ in	4 in	50 lb	**1NTY1**	**8PCC8**
	6 ⅝ in	4 in	50 lb	**1NTY3**	**8C964**
	8 ⅜ in	4 in	50 lb	**1NTY5**	**9WTC4**
	11 ⅛ in	4 in	50 lb	**1NTY7**	**8C965**
29 in	18 ⅜ in	11⅞ in	75 lb	**1UNJ4**	—

AKRO-MILS A Myers Industries Company

Replenishment Indicator Bins

H8694



- Sturdy plastic construction
- Include molded-in label holders

Front and back sides of bins have hopper openings and are different colors. Commonly used in inventory control systems to identify low stock levels by flipping bins around to reveal the secondary color and see at a glance when restocking is needed. Order optional dividers and use to designate normal and low stocking levels.

▶CHOOSE: Color: Black/Red, Blue/Orange

Overall Length	Overall Width	Overall Height	Load Capacity	AKRO-MILS BINS Item No.	AKRO-MILS BINS Optional Dividers
11 ⅝ in	4 ⅛ in	4 in	10 lb	**H8694**	**3A563**
	6 ⅝ in	4 in	15 lb	**H8695**	**3A564**
17 ⅞ in	4 ⅛ in	4 in	15 lb	**H8696**	**21D137**
	6 ⅝ in	4 in	20 lb	**H8697**	**21D138**

LEWIS BINS+ Powered by Menasha Corporation

48LX27

Unit Dose Bins

- Plastic construction
- Include molded-in label holders
- Light beige color

Bns are equal height on all 4 sides with extended length to hold medical supplies like strips, swabs, and injectables. Commonly used in clean-supply closets, pharmacies, and doctor's offices.

Overall Length	Overall Width	Overall Height	Load Capacity	Item No.
10 ¾ in	2 in	2⅞ in	25 lb	**48LX25**
	3 in	2⅞ in	25 lb	**48LX26**
	6 in	2⅞ in	25 lb	**48LX27**

1VL72

Metal Drawer Bins

- Durable steel construction
- Include dividers, additional dividers available as listed

Bins have solid bodies, open tops, and front handles that provide a grip to remove or insert them in compatible bin shelving units and pick racks. Extended vertical tab on the back side catches on a lip on the shelving unit to prevent it from sliding out. Used to organize and store small-to-medium-sized items such as hardware, replacement parts, and tools. Suitable for high temperature and combustive environments, such as welding, automotive, and machine shops.

Overall Length	Overall Width	Overall Height	Item No.	Optional Dividers
11 in	5 ½ in	4½ in	**1VL72**	**23WK27**
	8 ¼ in	4½ in	**1VL74**	**32ZT81**
	11 ⅛ in	4½ in	**1VL70**	—
17 in	5 ½ in	4½ in	**1VL73**	**23WK27**
	8 ¼ in	4½ in	**1VL75**	**32ZT81**
	11 ⅛ in	4½ in	**1VL71**	—

D5566

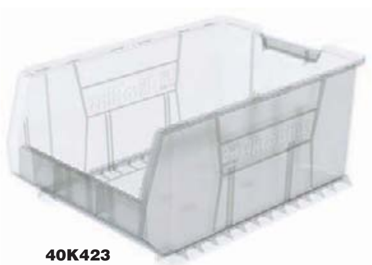
QUANTUM™ STORAGE SYSTEMS

AKRO-MILS A Myers Industries Company

Plastic Drawer Bins

Bins are equal height on all 4 sides with open tops and a front lip that makes it easy to remove or insert them in compatible bin shelving units and pick racks. Solid-color bodies can be used to create color-coded storage systems to separate and distinguish similar items stored in the same area.

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Includes Dividers	Stackable	Load Capacity	QUANTUM BINS Item No.	QUANTUM BINS Optional Dividers	AKRO-MILS BINS Item No.	AKRO-MILS BINS Optional Dividers
11 ⅝ in	3 ¾ in	4⅝ in	Blue, Gray, Red, Yellow	No	No	15 lb	**D5565**	**11M563**	—	—
	5 ⅝ in	2⅛ in		No	No	15 lb	**D5564**	**11M562**	—	—
	8 ⅜ in	4⅝ in		No	No	15 lb	**D5566**	**11M566**	—	—
	11 ⅛ in	4⅝ in		No	No	25 lb	**D5567**	**11M567**	—	—
11 ⅞ in	5 ⅝ in	4⅝ in		No	No	20 lb	**F1577**	**11M565**	—	—
12 in	3 ¾ in	4⅝ in	Blue	Yes	Yes	15 lb	—	—	**4KEZ6**	—
	5 ⅝ in	4⅝ in		Yes	Yes	20 lb	—	—	**4KEZ7**	—
	8 ⅜ in	4⅝ in		Yes	Yes	20 lb	—	—	**4KEZ8**	**4KFC5**
	11 ⅛ in	4⅝ in		Yes	Yes	25 lb	—	—	**D5438**	**10A160**
17 ¾ in	5 ⅝ in	4⅝ in	Blue, Gray, Red, Yellow	No	No	25 lb	**F1578**	**11M565**	—	—
17 ⅝ in	3 ¾ in	4⅝ in		No	No	25 lb	**F1580**	**11M563**	—	—
	8 ⅜ in	4⅝ in		No	No	25 lb	**D5568**	**11M566**	—	—
18 in	3 ¾ in	4⅝ in	Blue	Yes	Yes	20 lb	—	—	**D5439**	**4KFC3**
	5 ⅝ in	4⅝ in		Yes	Yes	25 lb	—	—	**4KEZ9**	—
	8 ⅜ in	4⅝ in		Yes	Yes	25 lb	—	—	**4KFA1**	—
	11 ⅛ in	4⅝ in		Yes	Yes	25 lb	—	—	**H7137**	**10A160**
24 in	5 ⅝ in	4⅝ in	Blue, Gray, Red	No	No	25 lb	**F1579**	**11M565**	—	—



40K423

6GAP5

Clearview Hopper Bins

QUANTUM™ STORAGE SYSTEMS — AKRO-MILS® A Myers Industries Company

- Stackable

Large sturdy bulk bins can store or transport heavy, odd-shaped, and surplus items. See-through sides give full visibility to contents. Open hopper fronts provide quick access, built-in side grips for carrying, and extra-wide sidewalls for stacking.

Clearview bins are helpful in applications where quick identification of contents is needed, such as healthcare supply closets, manufacturing facilities, and workshops.

Rolling bins have casters making it easy to move large, bulky items.

			QUANTUM BINS			AKRO-MILS BINS		
Overall Length	Overall Width	Overall Height	Item No.	Load Capacity	Optional Dividers	Item No.	Load Capacity	Optional Dividers
Clearview Hopper Bins								
15 ¼ in	19 ⅞ in	12½ in	**10H856**	100 lb	—	—	—	—
17 ½ in	10 ⅞ in	12½ in	**10H855**	100 lb	—	—	—	—
	16 ½ in	12½ in	**10H857**	100 lb	—	—	—	—
20 in	12 ⅜ in	6 in	—	—	—	**40K416**	200 lb	**10A045**
		8 in	—	—	—	**40K417**	200 lb	**10A046**
		12 in	—	—	—	**40K418**	200 lb	**10A047**
	18 ⅜ in	12 in	—	—	—	**40K419**	300 lb	**10A047**
23 ⅞ in	8 ¼ in	7 in	**6GAN8**	150 lb	**11M591**	**40K420**	200 lb	**10A043**
	11 in	7 in	**6GAP0**	150 lb	**10A043**	**40K421**	200 lb	**4MXK9**
		10 in	**6GAP1**	150 lb	**11M594**	**40K422**	300 lb	**3FWC1**
	16 ½ in	11 in	**6GAP2**	150 lb	**11M595**	**40K423**	300 lb	**3FWC1**
	18 ¼ in	12 in	**6GAP4**	150 lb	**11M596**	**40K424**	300 lb	**4MXL4**
29 ⅞ in	11 in	10 in	—	—	—	**40K426**	300 lb	**3HRW6**
	16 ½ in	11 in	—	—	—	**40K427**	300 lb	**3HRW6**
29 ¼ in	18 ⅜ in	12 in	—	—	—	**40K425**	300 lb	**10A048**
Rolling Clearview Hopper Bins								
18 in	16 ½ in	11 in	**10H854**	75 lb	—	—	—	—
23 ⅞ in	8 ¼ in	9 in	**6GAN9**	150 lb	**11M592**	—	—	—
	16 ½ in	11 in	**6GAP3**	250 lb	—	—	—	—
	18 ¼ in	12 in	**6GAP5**	250 lb	—	—	—	—

(2) Stationary Bins
F8566
(Contents not included.)

Rolling Bin
G2979

Rolling Bin
D5569

Colored Giant Hopper Bins

QUANTUM™ STORAGE SYSTEMS — AKRO-MILS® A Myers Industries Company

- Stackable

Large sturdy plastic bins have high load capacities to store or transport heavy, odd-shaped, and surplus items, Open hopper fronts provide quick access to contents, built-in side grips for carrying, and extra-wide sidewalls for stacking. Solid color bins can create color-coded storage systems to separate and distinguish items housed in the same area, such as tools and parts in workshops, electrical and plumbing supplies in maintenance closets, and hazardous and nonhazardous materials in medical environments.

Rolling bins have casters to easily move large or heavy items to another location.

			QUANTUM BINS				AKRO-MILS BINS			
Overall Length	Overall Width	Overall Height	Item No.	Weight Cap.	▶CHOOSE: Color	Optional Dividers	Item No.	Weight Cap.	▶CHOOSE: Color	Optional Dividers
Stationary Hopper Bins										
15¼ in	19⅞ in	12½ in	**G2987**	100 lb	Blue, Gray, Red	—	—	—	—	—
17½ in	10⅞ in	12½ in	**G2978**	100 lb	Blue, Gray, Red	—	—	—	—	—
	16½ in	12½ in	**G2980**	100 lb	Blue, Gray, Red	—	—	—	—	—
19¾ in	12⅜ in	5⅞ in	**F0817**	150 lb	Blue, Green, Red, Yellow	**12R262**	—	—	—	—
		7⅞ in	**F8681**	150 lb	Blue, Green, Red, Yellow	**11M577**	—	—	—	—
		11⅞ in	**F0818**	150 lb	Blue, Green, Red, Yellow	**11M578**	—	—	—	—
	18⅜ in	11⅞ in	**F8680**	150 lb	Blue, Green, Red, Yellow	**1VH15**	—	—	—	—
20 in	12⅜ in	6 in	—	—	—	—	**F9075**	200 lb	Blue, Gray, Red, Yellow	**10A045**
		8 in	—	—	—	—	**F8566**	200 lb	Blue, Gray, Red, Yellow	**10A046**
		12 in	—	—	—	—	**F9074**	200 lb	Blue, Gray, Red, Yellow	**10A047**
	18⅜ in	12 in	—	—	—	—	**F9073**	300 lb	Blue, Gray, Red, Yellow	**10A047**
23⅞ in	8¼ in	7 in	**E4445**	100 lb	Blue, Red, Yellow	**11M591**	**D5437**	200 lb	Blue, Gray, Red, Yellow	**10A043**
	11 in	7 in	**F8433**	100 lb	Blue, Red, Yellow	**10A043**	**D5556**	200 lb	Blue, Gray, Red, Yellow	**4MXK9**
		10 in	**E4447**	100 lb	Yellow	**11M594**	**D5557**	300 lb	Blue, Gray, Red, Yellow	**3FWC1**
	16½ in	11 in	**E4448**	100 lb	Blue, Red, Yellow	**11M595**	**D5558**	300 lb	Blue, Gray, Red, Yellow	**3FWC1**
	18¼ in	12 in	**E4449**	100 lb	Blue, Red, Yellow	**11M596**	**D5559**	300 lb	Blue, Gray, Red, Yellow	**4MXL4**
29 in	18⅜ in	11⅞ in	**F8679**	150 lb	Blue, Green, Red, Yellow	—	—	—	—	—
29¼ in		12 in	—	—	—	—	**F9078**	300 lb	Blue, Gray, Red, Yellow	**10A048**
29⅞ in	8¼ in	7 in	**E4543**	150 lb	Blue, Yellow	—	—	—	—	—
	11 in	10 in	**E4544**	150 lb	Blue, Red	—	**D5561**	300 lb	Blue, Gray, Red, Yellow	**3HRW6**
	16½ in	11 in	**E4545**	150 lb	Blue, Red, Yellow	—	**D5562**	300 lb	Blue, Gray, Red, Yellow	**3HRW6**
		15 in	**E4547**	150 lb	Blue, Red, Yellow	—	—	—	—	—
	18¼ in	12 in	**E4546**	150 lb	Blue, Red, Yellow	—	—	—	—	—
35⅞ in	16½ in	17½ in	**E6586**	150 lb	Blue, Yellow	—	—	—	—	—
	19⅞ in	17½ in	**E6587**	150 lb	Blue, Red, Yellow	—	—	—	—	—
	23⅞ in	17½ in	**E6588**	150 lb	Blue, Red, Yellow	**19YY16**	—	—	—	—
41⅞ in	16½ in	17½ in	**G7020**	175 lb	Blue, Gray	—	—	—	—	—
	19⅞ in	17½ in	**G7022**	175 lb	Blue, Gray	—	—	—	—	—
	23⅞ in	17½ in	**G7024**	175 lb	Blue, Gray	—	—	—	—	—
Rolling Hopper Bins										
15¼ in	19⅞ in	12½ in	**G2979**	250 lb	Blue, Gray, Red	—	—	—	—	—
17½ in	16½ in	12½ in	**G2981**	250 lb	Blue, Gray, Red	—	—	—	—	—
18 in		11 in	**G7042**	250 lb	Black, Blue	—	—	—	—	—
23⅞ in		11 in	**G7042**	250 lb	Yellow	—	—	—	—	—
	18¼ in	12 in	**493G11**	250 lb	Red	—	—	—	—	—
		12 in	**493G12**	250 lb	Yellow	—	—	—	—	—
29 in	18⅜ in	14⅞ in	**D5569**	300 lb	Blue, Green, Red, Yellow	—	—	—	—	—
29⅞ in	16½ in	11 in	**E4548**	250 lb	Blue, Red, Yellow	—	—	—	—	—
		15 in	**E4550**	250 lb	Blue, Red, Yellow	—	—	—	—	—
	18¼ in	12 in	**E4549**	250 lb	Blue, Red, Yellow	—	—	—	—	—
35⅞ in	16½ in	17½ in	**D5572**	250 lb	Red, Yellow	—	—	—	—	—
	19⅞ in	17½ in	**D5573**	250 lb	Blue, Red, Yellow	—	—	—	—	—
	23⅞ in	17½ in	**D5574**	250 lb	Blue, Red, Yellow	—	—	—	—	—
41⅞ in	16½ in	17½ in	**G7021**	300 lb	Blue, Gray	—	—	—	—	—
	19⅞ in	17½ in	**G7023**	300 lb	Blue, Gray	—	—	—	—	—
	23⅞ in	17½ in	**G7025**	300 lb	Gray	—	—	—	—	—

QUANTUM™ STORAGE SYSTEMS   AKRO-MILS

Tip-Out Bins

- Stackable

Clear plastic bins tilt forward for access to contents and tilt back inside frame when not in use. Allow full visibility to contents while keeping items shielded from dust and debris. Order individual bins, or a horizontal plastic frame containing multiple bins

Quantum bins are freestanding or wall-mount. **Akro-Mils** bins can be mounted on a frame, panel, rail, or wall.

Replacement bins can be ordered to replace broken or damaged bins.

F8472

F1572

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Brand	Item No.	Replacement Bins
1 Individual Bin(s)						
2 ⅜ in	2 ⅞ in	3 in	Red, White	Quantum	G7038	—
3 ⅝ in	4 ⅛ in	4¼ in	Ivory, White	Quantum	F8472	—
5 ¼ in	4 ¾ in	6¼ in	Ivory, White	Quantum	F8473	—
	11 ⅞ in	6 in	Ivory, White	Quantum	F8435	—
11 ¾ in	11 ⅞ in	13⅞ in	Ivory, White	Quantum	G4993	—
2 Individual Bin(s)						
11 ¾ in	23 ⅝ in	13⅞ in	Ivory, White	Quantum	G4994	—
12 ⅜ in	23 ⅝ in	14 in	Neutral Stone	Akro-Mils	39T747	—
3 Individual Bin(s)						
7 ¾ in	23 ⅝ in	9½ in	Gray, Ivory, White	Quantum	F1572	24D266
7 ⅞ in	23 ⅝ in	9½ in	Neutral Stone	Akro-Mils	39T748	—
4 Individual Bin(s)						
6 ⅝ in	23 ⅝ in	8⅛ in	Gray, Ivory, White	Quantum	F1573	24D267
6 ¾ in	23 ⅝ in	8¼ in	Neutral Stone	Akro-Mils	39T749	—
5 Individual Bin(s)						
5 ¼ in	23 ⅝ in	6½ in	Gray, Ivory, White	Quantum	F1574	24D268
5 ⅜ in	23 ⅝ in	6½ in	Neutral Stone	Akro-Mils	39T750	—
6 Individual Bin(s)						
3 ⅝ in	23 ⅝ in	4½ in	Gray, Ivory, White	Quantum	F1575	24D269
3 ¾ in	23 ⅝ in	4½ in	Neutral Stone	Akro-Mils	39T751	—
9 Individual Bin(s)						
2 ½ in	23 ⅝ in	3⅛ in	Gray, Ivory, White	Quantum	F1576	—

AKRO-MILS   ORBIS Powered by Menasha Corporation

Straight Wall Containers

- Stackable
- Plastic construction

Square or rectangular containers have non-tapered walls and can accommodate larger items for storage and transport. Sturdy rims enable stacking and containers fit trucks, pallets, and dollies for moving or storage.

Fully Vented—Open mesh sides and bottoms for storing and transporting items that produce condensation or need airflow. Built-in handles. Ideal for transporting bottles, staging food products in refrigerated areas, and storing items outside.

Vented Wall—Open mesh sides with a solid bottom. Used to store and transport items that produce condensation or need ventilation. Built-in handles.

Solid—Smooth, strong walls and bottoms. Easy to clean and help conceal contents from view.

Fully Vented
10E133

Vented Wall
Solid-Bottom
G6569

Solid
Straight-Wall
H6169

Volume Cap.	Overall Length	Overall Width	Overall Height	▶CHOOSE: Body Color	Load Capacity	Stacking Cap.	Brand	Item No.
Fully Vented Milk-Crate-Style Containers								
6.65 gal	15 ¾ in	11 ¾ in	8 ¼ in	Gray	30 lb	150 lb	Akro-Mils	G6565
8.22 gal	13 ⅛ in	13 ⅛ in	11 in	Black	40 lb	300 lb	Orbis	10E133
13.31 gal	23 ¾ in	15 ¾ in	8 ¼ in	Gray	45 lb	225 lb	Akro-Mils	G6568
19.97 gal	23 ¾ in	15 ¾ in	12 ¼ in	Gray	45 lb	180 lb	Akro-Mils	G6571
26.55 gal	23 ¾ in	15 ¾ in	16 ⅛ in	Gray	45 lb	180 lb	Akro-Mils	G6574
Vented Wall Solid-Bottom Straight-Wall Containers								
6.65 gal	15 ¾ in	11 ¾ in	8 ¼ in	Gray	83 lb	415 lb	Akro-Mils	G6566
13.31 gal	23 ¾ in	15 ¾ in	8 ¼ in	Gray	83 lb	415 lb	Akro-Mils	G6575
19.97 gal	23 ¾ in	15 ¾ in	12 ¼ in	Gray	125 lb	500 lb	Akro-Mils	G6569
26.55 gal	23 ¾ in	15 ¾ in	16 ⅛ in	Gray	150 lb	450 lb	Akro-Mils	G6572
Solid Straight-Wall Containers								
0.75 gal	12 in	7 ⅜ in	5 in	Gray, Blue, Green	—	900 lb	Orbis	H6169
2.24 gal	12 in	15 in	5 in	Green	40 lb	300 lb	Orbis	E9243
3.59 gal	12 in	15 in	7 ½ in	Green, Gray	2.4 lb	900 lb	Orbis	E9244
5.38 gal	24 in	15 in	5 in	Green	40 lb	300 lb	Orbis	E7303
6.65 gal	15 ¾ in	11 ¾ in	8 ¼ in	Gray	83 lb	415 lb	Akro-Mils	G6564
8.15 gal	24 in	15 in	7 ½ in	Green	40 lb	900 lb	Orbis	E7304
10.62 gal	24 in	15 in	9 ½ in	Blue	40 lb	900 lb	Orbis	E7307
11.22 gal	23 ⅝ in	15 ¾ in	8 ⅝ in	Gray	80 lb	320 lb	Akro-Mils	39T741
11.22 gal	32 in	15 in	7 ½ in	Gray, Green, Blue	40 lb	900 lb	Orbis	D5575
13.31 gal	23 ¾ in	15 ¾ in	8 ¼ in	Gray	83 lb	415 lb	Akro-Mils	G6573
13.31 gal	24 in	15 in	11 ½ in	Gray	—	900 lb	Orbis	H6170
15.7 gal	24 in	22 ½ in	8 ¾ in	Gray, Blue, Green	40 lb	900 lb	Orbis	F1325
16.45 gal	24 in	15 in	14 ½ in	Green	40 lb	300 lb	Orbis	E7308
17.2 gal	48 in	15 in	7 ½ in	Gray, Green, Blue	40 lb	900 lb	Orbis	F9002
19.74 gal	24 in	22 ½ in	10 ¾ in	Green	40 lb	900 lb	Orbis	F1326
19.97 gal	23 ¾ in	15 ¾ in	12 ¼ in	Gray	125 lb	500 lb	Akro-Mils	G6567
26.18 gal	48 in	15 in	10 ¾ in	Gray, Green, Blue	40 lb	900 lb	Orbis	F9001
26.18 gal	48 in	22 ½ in	7 ¼ in	Gray, Green, Blue	40 lb	900 lb	Orbis	F9000
26.55 gal	23 ¾ in	15 ¾ in	16 ⅛ in	Gray	150 lb	450 lb	Akro-Mils	G6570

52VN75

Clearview Totes with Snap-On Lids

- Stackable

Lids attach securely to the container's rim for a tight hold to cover and seal contents. Clear plastic walls give full visibility to contents. Lids with latches ensure a firm seal to the container. Built-in handles for carrying. Use to store and transport items in residential, commercial, and industrial applications.

Volume Cap.	Outside L	Outside W	Outside H	Lid Color	Lid Locking Type	Item No.
Less than 10 gal						
1.5 gal	13 ⅝ in	8 ¼ in	4 ⅞ in	White	Snap-On	**53GN16**
1.5 gal	14 ⅛ in	7 ⅝ in	4 ⅞ in	White	Latches	**56JU36**
3 gal	16 ⅛ in	11 ¼ in	6 ¾ in	Blue	Latches	**56JU41**
3.75 gal	16 ¼ in	11 ¼ in	6 ¾ in	White	Latches	**56JU37**
4 gal	16 ¾ in	11 ⅞ in	7 in	White	Snap-On	**53GN17**
4.5 gal	18 ⅛ in	12 ¼ in	7 in	White	Latches	**39UV72**
5 gal	16 ⅛ in	11 ¼ in	10 ⅞ in	Blue	Latches	**56JU42**
6.25 gal	16 ¼ in	11 ¼ in	11 ⅝ in	White	Latches	**56JU38**
6.25 gal	19 ⅞ in	15 ½ in	7 ¾ in	Gray	Latches	**52JM06**
8 gal	18 ½ in	14 ⅞ in	11 ⅛ in	Blue	Latches	**56JU43**
8 gal	23 ¾ in	16 in	6 ⅞ in	White	Latches	**52VN74**
9.25 gal	24 in	18 in	7 in	Blue	Latches	**56JU45**
10 to 20 gal						
10.25 gal	34 ⅞ in	16 ⅝ in	6 ⅛ in	White	Latches	**52JM10**
12 gal	23 ⅝ in	18 ⅝ in	9 ¼ in	Blue	Latches	**52JL98**
12.5 gal	19 ⅞ in	15 ½ in	14 ¾ in	Gray	Latches	**52JM07**
13.5 gal	22 ½ in	16 in	12 ¾ in	Blue	Latches	**56JU44**
14 gal	23 in	16 ¼ in	12 ⅜ in	White	Snap-On	**53GN18**
14 gal	33 ⅞ in	18 ¾ in	7 in	White	Latches	**52VN77**
16 gal	23 ¾ in	16 in	13 ½ in	White	Latches	**52VN75**
18 gal	23 ⅝ in	18 ⅝ in	13 ⅝ in	Blue	Latches	**52JM01**
20 gal	24 in	18 in	15 ¼ in	Blue	Latches	**56JU46**
More than 20 gal						
26 gal	23 ⅝ in	18 ⅝ in	20 ⅛ in	Blue	Latches	**52JM03**
26.5 gal	33 ⅞ in	18 ¾ in	13 in	White	Latches	**52VN76**
30 gal	30 ¼ in	19 ⅝ in	16 ¾ in	Blue	Latches	**56JU39**
40 gal	36 ¾ in	21 ⅜ in	18 in	Clear	Latches	**56JU40**

F8728

Colored Totes with Snap-On Lids

- Stackable
- Include matching lids

Lids attach securely to the container's rim for a tight hold to cover and seal contents. Lids with latches ensure a firm seal to the container. Solid color plastic totes can be used to create color-coded systems for organization and storage.

Volume Cap.	Outside L	Outside W	Outside H	Body Color	Lid Locking Type	Brand	Item No.
Less than 10 gal							
3 gal	15 11/16 in	10 ⅝ in	7 in	Dark Blue/Metallic	—	Rubbermaid	**60VZ17**
10 to 20 gal							
10 gal	23 ⅞ in	15 ⅞ in	8 ⅞ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ18**
12 gal	23 ⅝ in	18 ⅝ in	9 ¼ in	Blue	Latches	Sterilite	**52JL97**
14 gal	23 ⅞ in	15 ⅞ in	12 ¼ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ19**
14 gal	27 ⅞ in	16 ½ in	10 ¾ in	Gray, White	Snap-On	Rubbermaid	**F8714**
15 gal	25 ¾ in	17 ¼ in	11 ⅞ in	Black	Latches	Sterilite	**56JU34**
18 gal	23 ½ in	18 ⅜ in	16 ⅛ in	Blue	Snap-On	Sterilite	**52VN72**
18 gal	23 ⅝ in	18 ⅝ in	13 ⅝ in	Blue	Latches	Sterilite	**52JL99**
18 gal	23 ⅞ in	15 ⅞ in	16 ⅜ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ20**
18 gal	23 in	17 ¼ in	16 ⅝ in	Dark Blue	Latches	Sterilite	**56JU47**
20 gal	27 ⅞ in	17 ⅘ in	15 ⅛ in	Gray, White	Snap-On	Rubbermaid	**F8728**
More than 20 gal							
25 gal	28 ⅞ in	19 ⅞ in	16 ¾ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ21**
26 gal	23 ⅝ in	18 ⅝ in	20 ⅛ in	Blue	Latches	Sterilite	**52JM02**
27 gal	30 ½ in	20 ⅝ in	15 ¼ in	Black	Latches	Sterilite	**56JU35**
30 gal	29 ⅞ in	19 ¾ in	18 ⅛ in	Gray	Latches	Sterilite	**56JU48**
30 gal	30 ½ in	20 ¼ in	17 ⅛ in	Blue	Snap-On	Sterilite	**52VN73**
31 gal	32 19/64 in	20 13/32 in	24 ½ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ22**
32 gal	28 ⅞ in	19 in	19 in	Gray	Latches	Sterilite	**56JU33**
35 gal	32 ½ in	19 ¾ in	18 ⅝ in	Gray	Latches	Sterilite	**52JM09**
40 gal	36 29/32 in	21 13/64 in	18 19/64 in	Dark Blue/Metallic	—	Rubbermaid	**60VZ23**
45 gal	36 ⅝ in	21 in	19 ½ in	Gray	Latches	Sterilite	**39UV70**
50 gal	43 in	21 ¼ in	17 ⅞ in	Dark Blue/Metallic	—	Rubbermaid	**60VZ24**

Attached-Lid Totes with One-Piece Lids

- Stackable
- Black with gray lid

Impact-resistant plastic totes have side-hinged lids for easy opening and closing. Lids close with latches for tight, secure fit. 499N13 and 2YU13 have latches on each side of lid; 2YU14 and 2YU15 have single latch on front of lid. Commonly used for outdoor gear, cargo, and bulky items.

2YU14

Volume Cap.	Overall Length	Overall Width	Overall Height	Weight Cap.	Item No.
44.58 gal	20 in	14 ½ in	12 in	25 lb	**499N13**
52.66 gal	35 ¼ in	20 in	17 ¼ in	110 lb	**2YU14**
70.76 gal	44 ¼ in	20 ⅝ in	17 ¼ in	135 lb	**2YU15**
94.32 gal	26 in	18 ½ in	17 in	50 lb	**2YU13**

Clearview Attached-Lid Totes with Two-Piece Lids

- Stackable

Plastic totes are see-through to provide visibility to contents. Two-piece lids are hinged on opposite sides of the container. When opened, lids fall to the sides of the tote for full access to contents. Lids close by overlapping to seal contents.

8YVJ5

Volume Cap.	Overall Length	Overall Width	Overall Height	Lid Color	Weight Cap.	Stacking Cap.	Brand	Item No.
2.24 gal	11 ¾ in	9 ¾ in	7 ¾ in	Clear	70 lb	300 lb	Orbis	**3CLU6**
4.48 gal	15 ¼ in	10 ⅞ in	9 ⅞ in	Clear	70 lb	300 lb	Orbis	**3CLU7**
5.23 gal	19 ¾ in	11 ¾ in	7 ¼ in	Clear	70 lb	300 lb	Orbis	**3CLU8**
9.72 gal	21 ⅞ in	15 ¼ in	9 in	Clear	40 lb	300 lb	Orbis	**49K917**
12 gal	21 ½ in	15 ¼ in	12 ½ in	Blue	25 lb	100 lb	Akro-Mils	**8YVJ5**
	21 ½ in	15 ¼ in	12 ½ in	Clear	50 lb	175 lb	Akro-Mils	**49XH32**
13.46 gal	21 ¾ in	15 ¼ in	12 ⅞ in	Clear	70 lb	300 lb	Orbis	**3CLV1**
17.2 gal	26 ⅞ in	16 ⅞ in	12 ⅛ in	Clear	70 lb	300 lb	Orbis	**3CLV2**
20.19 gal	23 ⅞ in	19 ⅝ in	12 ⅝ in	Clear	70 lb	300 lb	Orbis	**3CLV3**

Colored Attached-Lid Totes with Two-Piece Lids

- Stackable

Solid color plastic totes can be used to easily sort, organize, and store items. Two-piece lids are hinged on opposite sides of the container. When opened, lids fall to the sides of the tote for full access to contents. Lids close by overlapping to seal contents.

F8959

Volume Cap.	Overall Length	Overall Width	Overall Height	▶CHOOSE: Body Color	Stacking Cap.	Weight Cap.	Brand	Item No.
Less than 10 gal								
2.24 gal	11 ¾ in	9 ¾ in	7 ¾ in	Blue, Gray	300 lb	70 lb	Orbis	**H4627**
4.48 gal	15 ¼ in	10 ⅞ in	9 ⅞ in	Blue, Gray	300 lb	70 lb	Orbis	**H5663**
5.23 gal	19 ¾ in	11 ¾ in	7 ¼ in	Blue, Gray	300 lb	70 lb	Orbis	**H7036**
5.98 gal	20 ⅝ in	13 ½ in	6 ½ in	Gray	300 lb	70 lb	Orbis	**10E128**
8 gal	21 ½ in	15 ¼ in	9 in	Gray, Blue	140 lb	35 lb	Akro-Mils	**F8960**
8.22 gal	24 in	15 in	7 in	Gray	900 lb	40 lb	Orbis	**9CUN3**
9.72 gal	21 ⅞ in	15 ¼ in	9 ¼ in	Black	300 lb	70 lb	Orbis	**9NPC1**
	21 ⅞ in	15 ¼ in	9 in	Gray, Blue	300 lb	50 lb	Orbis	**H6168**
	21 ⅞ in	15 ¼ in	9 in	Red	300 lb	70 lb	Orbis	**H6168**
10 to 20 gal								
10.47 gal	20 ⅝ in	13 ¼ in	11 ⅝ in	Gray	300 lb	70 lb	Orbis	**10E130**
11.96 gal	22 ¼ in	13 in	12 ¾ in	Blue, Gray	300 lb	70 lb	Orbis	**E3358**
12 gal	21 ½ in	15 ¼ in	12 ½ in	Red, Green, Gray, Blue	260 lb	65 lb	Akro-Mils	**F8959**
12.71 gal	21 ¾ in	14 ⅞ in	12 ⅛ in	Gray	300 lb	50 lb	Orbis	**49K914**
13.46 gal	21 ¾ in	15 ¼ in	12 ⅞ in	Black	300 lb	70 lb	Orbis	**8MWX3**
	21 ¾ in	15 ¼ in	12 ⅞ in	Green, Red, Blue, Gray	300 lb	70 lb	Orbis	**E3369**
14.21 gal	23 ½ in	15 ¾ in	13 in	Gray	300 lb	70 lb	Orbis	**10E131**
16.45 gal	21 ¾ in	15 ¼ in	17 ⅛ in	Blue, Gray	300 lb	65 lb	Orbis	**J0286**
17 gal	21 ½ in	15 ¼ in	17 in	Gray, Blue	200 lb	100 lb	Akro-Mils	**F8958**
17.2 gal	26 ⅞ in	16 ⅞ in	12 ⅛ in	Green, Red, Blue, Gray	300 lb	70 lb	Orbis	**E3380**
17.95 gal	26 ⅞ in	17 in	12 ⅛ in	Black	300 lb	70 lb	Orbis	**8MWX4**
More than 20 gal								
20.19 gal	23 ⅞ in	19 ⅝ in	12 ⅝ in	Black	300 lb	70 lb	Orbis	**9ENT8**
	23 ⅞ in	19 ⅝ in	12 ⅝ in	Red, Blue, Gray	300 lb	70 lb	Orbis	**E3391**
24.68 gal	39 ¼ in	14 in	12 in	Gray	300 lb	70 lb	Orbis	**10E132**
27.97 gal	12 in	15 in	7 ½ in	Gray	900 lb	40 lb	Orbis	**8Y348**
29.92 gal	23 ⅞ in	19 ⅝ in	15 ¼ in	Gray, Red, Blue	300 lb	70 lb	Orbis	**E3402**
45.63 gal	30 in	22 in	20 ½ in	Gray	300 lb	70 lb	Orbis	**21P615**

E1881

Stacking & Nesting Totes

- Save space when not in use
- Lids ordered separately

Sturdy plastic totes have sidewalls that angle outward from the base up so that same-sized totes can fit within each other when empty. Wide-rim ledges enable totes to stack on top of one another. Use for medium to long-term storage, shipping products, and assembly manufacturing applications.

Cross-stacking totes have indented sidewall rims that allow sideways stacking of compatible totes.

Volume Cap.	Overall Length	Overall Width	Overall Height	▶CHOOSE: Body Color	Stacking Cap.	Weight Cap.	Brand	TOTES Item No.	LIDS Item No.
Cross-Stacking & Nesting Totes									
3.85 gal	17 ¼ in	11 in	8 in	Blue, Gray, White	—	100 lb	Quantum	**G2983**	**G8854**
3.88 gal	17 ¼ in	11 in	8 in	Gray	—	60 lb	Akro-Mils	**4HY31**	—
5.51 gal	17 ¼ in	11 in	12 in	Blue, Gray, White	—	100 lb	Quantum	**G2982**	**G8854**
9.35 gal	25 in	16 in	8 ½ in	Gray	—	85 lb	Akro-Mils	**H8291**	—
9.75 gal	25 ⅛ in	16 in	8 ½ in	Blue, Gray, Red, White, Yellow	—	100 lb	Quantum	**G2986**	**G8856**
9.79 gal	23 ¾ in	17 ¼ in	8 in	Gray	—	60 lb	Akro-Mils	**4HY33**	—
9.81 gal	23 ¾ in	17 ¼ in	8 in	Blue, Gray, White	—	100 lb	Quantum	**G2985**	**G8855**
14.36 gal	23 ¾ in	17 ¼ in	12 in	Gray	—	60 lb	Akro-Mils	**4HY34**	—
14.38 gal	23 ¾ in	17 ¼ in	12 in	Blue, Gray, White	—	100 lb	Quantum	**G2984**	**G8855**
Standard Stacking & Nesting Totes									
3.7 gal	18 in	11 in	6 in	Blue, Gray, Red	225 lb	45 lb	Akro-Mils	**F8968**	**E9216**
3.74 gal	18 in	11 in	6 in	Blue, Clear, Gray, Red	100 lb	45 lb	Quantum	**E1878**	**E1887**
5.68 gal	18 in	11 in	9 in	Blue, Clear, Gray, Red	100 lb	60 lb	Quantum	**E1879**	**E1887**
5.69 gal	18 in	11 in	9 in	Blue, Gray, Red	300 lb	60 lb	Akro-Mils	**F8953**	**E9216**
5.98 gal	19 ½ in	13 ½ in	8 in	Blue, Gray, Red	100 lb	65 lb	Quantum	**E1882**	**E1889**
6.1 gal	19 ½ in	13 ½ in	8 in	Blue, Gray, Red	275 lb	55 lb	Akro-Mils	**F8980**	**E9218**
8.97 gal	19 ½ in	15 ½ in	10 in	Blue, Gray, Red	100 lb	55 lb	Quantum	**E1880**	**E1888**
9 gal	19 ½ in	15 ½ in	10 in	Blue, Gray, Red	325 lb	65 lb	Akro-Mils	**F8966**	**E9217**
12.71 gal	19 ½ in	15 ½ in	13 in	Blue, Clear, Gray, Red	100 lb	65 lb	Quantum	**E1881**	**E1888**
	23 ½ in	19 ½ in	12 in	Blue, Clear, Gray, Red	100 lb	90 lb	Quantum	**E1885**	**E1891**
12.9 gal	23 ½ in	15 ½ in	12 in	Blue, Gray, Red	375 lb	75 lb	Akro-Mils	**F8963**	**E9220**
12.93 gal	19 ½ in	15 ½ in	13 in	Blue, Gray, Red	425 lb	85 lb	Akro-Mils	**F8964**	**E9217**
14.96 gal	23 ½ in	19 ½ in	10 in	Blue, Gray, Red	100 lb	45 lb	Quantum	**E1883**	**E1890**
14.98 gal	23 ½ in	19 ½ in	10 in	Blue, Gray, Red	350 lb	70 lb	Akro-Mils	**F8962**	**E9219**
19.4 gal	23 ½ in	19 ½ in	13 in	Blue, Gray, Red	450 lb	90 lb	Akro-Mils	**F8773**	**E9219**
19.44 gal	23 ½ in	19 ½ in	13 in	Blue, Clear, Gray, Red	100 lb	75 lb	Quantum	**E1884**	**E1890**
27.4 gal	29 ½ in	19 ½ in	15 in	Blue, Gray, Red	500 lb	100 lb	Akro-Mils	**F8961**	**E9221**
27.67 gal	29 ½ in	19 ½ in	15 in	Blue, Clear, Gray, Red	100 lb	100 lb	Quantum	**E1886**	**E1892**

Standard Divider Boxes & Accessories

J4496

- Black dividers and clear lids
- Dividers and lids are ordered separately

Plastic boxes separate and organize small items within one bin. Boxes have interior grooves that accommodate dividers to make custom-sized compartments within the box. Stackable boxes can fit on racks and shelving. Commonly used in health-care, manufacturing, and distribution industries.

Volume Cap.	Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Number of Long Divider Slots	Number of Short Divider Slots	Weight Cap.	BOXES Item No.	LONG DIVIDERS Item No.	SHORT DIVIDERS Item No.	LIDS Item No.
0.16 cu ft	10 ⅞ in	8 ¼ in	5 in	Blue, Clear, Gray, Red	5	7	25 lb	**F8520**	**494D07**	**494C97**	**18C961**
0.2 cu ft	16 ½ in	10 ⅞ in	2 ½ in	Gray, Red	7	11	20 lb	**J4496**	**45YM67**	—	**18C962**
0.29 cu ft	16 ½ in	10 ⅞ in	4 in	Blue, Clear, Gray, Red	7	11	20 lb	**F8505**	**494D08**	**494C98**	**18C962**
0.39 cu ft	16 ½ in	10 ⅞ in	5 in	Gray, Red	7	11	35 lb	**J4497**	**45YM69**	—	**18C962**
0.44 cu ft	16 ½ in	10 ⅞ in	6 in	Blue, Clear, Gray, Red	7	11	35 lb	**F8518**	**494D09**	**494C99**	**18C962**
0.47 cu ft	22 ⅜ in	17 ⅜ in	3 in	Blue, Gray, Red	11	15	30 lb	**D5442**	**494D12**	**494D03**	**10A123**
0.59 cu ft	16 ½ in	10 ⅞ in	8 in	Blue, Clear, Gray, Red	7	11	40 lb	**F8532**	**494D10**	**494D01**	**18C962**
0.61 cu ft	22 ⅜ in	17 ⅜ in	4 in	Blue, Gray, Red	11	15	30 lb	**F8515**	**494D13**	**494D04**	**10A123**
0.96 cu ft	22 ⅜ in	17 ⅜ in	6 in	Blue, Clear, Gray, Red	11	15	40 lb	**F8514**	**494D14**	**494D05**	**10A123**
1.3 cu ft	22 ⅜ in	17 ⅜ in	8 in	Blue, Gray, Red	11	15	50 lb	**F8513**	**494D15**	**494D06**	**10A123**
1.66 cu ft	22 ⅜ in	17 ⅜ in	10 in	Blue, Clear, Gray, Red	11	15	50 lb	**F8516**	**494D11**	**494D02**	**10A123**

ESD Static-Control Divider & Storage Boxes

- Black color

Separate, organize, and store sensitive electrical equipment like computer chips, transistors, and light-emitting diodes (LED). Made of conductive plastic or cardboard materials that dissipate static energy and are ideal for protecting sensitive electronic parts and components in transport and storage.

Divider boxes— Slots along the interior walls accommodate dividers and create compartments to organize small parts within one box. Plastic boxes do not include dividers. Cardboard boxes include dividers.

Storage boxes—Cardboard boxes have open interior compartments and can hold large or odd-shaped items. Side handles make them easy to carry.

Overall Length	Overall Width	Overall Height	Number of Long Divider Slots	Number of Short Divider Slots	Mfr. Model	Brand	BOXES Item No.
Plastic ESD Static-Control Divider Boxes							
10¾"	8 ¼ in	2 ½ in	5	7	DC1025 XL	Lewisbins	**8PGG0**
	8 ¼ in	3 ½ in	5	7	DC1035-SXL BUY 16S	Lewisbins	**8APE2**
	8 ¼ in	5 in	5	7	DC1050-SXL	Lewisbins	**9HN47**
10⅞"	8 ¼ in	3 ½ in	6	6	DG91035CO	Quantum Storage Systems	**2TB27**
	8 ¼ in	5 in	6	6	DG91050CO	Quantum Storage Systems	**2TB28**
16½"	10 ⅞ in	2 ½ in	7	11	DC2025-SXL BUY 12S	Lewisbins	**9MJC5**
	10 ⅞ in	3 ½ in	7	11	DC2035-XL	Lewisbins	**8APE3**
	10 ⅞ in	3 ½ in	6	6	DG92035CO	Quantum Storage Systems	**2TB29**
	10 ⅞ in	5 in	7	11	DC2050 XL	Lewisbins	**8ECF8**
	10 ⅞ in	6 in	7	11	DC2060-SXL BUY 8S	Lewisbins	**8APE4**
	10 ⅞ in	6 in	6	6	DG92060CO	Quantum Storage Systems	**2TB30**
	10 ⅞ in	7 in	7	11	DC2070 XL	Lewisbins	**9MEW7**
	10 ⅞ in	8 in	6	6	DG92080CO	Quantum Storage Systems	**2TB31**
	10 ⅞ in	8 in	7	11	DC2080-SXL BUY 6S	Lewisbins	**9LUX3**
22⅜"	17 ⅜ in	5 in	11	15	DC3050 XL	Lewisbins	**8ECT8**
	17 ⅜ in	6 in	11	15	DC3060-SXL BUY 4S	Lewisbins	**9HN48**
	17 ⅜ in	8 in	11	15	DC3080-SXL BUY 4S	Lewisbins	**8APE7**
	17 ⅜ in	12 in	11	15	DC3120-SXL BUY 3S	Lewisbins	**9NUC5**
22½"	17 ½ in	3 in	6	6	DG93030CO	Quantum Storage Systems	**2TB32**
	17 ½ in	6 in	6	6	DG93060CO	Quantum Storage Systems	**2TB33**
	17 ½ in	8 in	6	6	DG93080CO	Quantum Storage Systems	**2TB34**
	17 ½ in	12 in	6	6	DG93120CO	Quantum Storage Systems	**2TB35**
Cardboard ESD Static-Control Divider Boxes							
22"	18 ⅞ in	8 in	7	4	38808	Protektive Pak	**31AR65**
	18 ⅞ in	8 in	7	11	38802	Protektive Pak	**31AR64**
	18 ⅞ in	8 in	14	4	38807	Protektive Pak	**31AR63**
23¼"	20 in	4 ½ in	7	11	38701	Protektive Pak	**31AR66**
32¾"	24 ½ in	2 ¼ in	9	7	37233	Protektive Pak	**31AR45**
	25 ½ in	2 ¼ in	4	7	37229	Protektive Pak	**31AR44**
33¾"	24 ½ in	3 ¼ in	4	4	37248	Protektive Pak	**31AR48**
34¾"	28 ½ in	2 ¼ in	9	7	37225	Protektive Pak	**31AR43**
36¾"	25 ½ in	3 ¼ in	3	9	37389	Protektive Pak	**31AR50**
37¾"	31 ½ in	3 ¼ in	2	9	37367	Protektive Pak	**31AR47**
38¾"	36 ½ in	2 ¼ in	4	3	37263	Protektive Pak	**31AR42**
39¾"	26 ½ in	3 ¼ in	2	11	37259	Protektive Pak	**31AR49**
40¾"	2 ½ in	2 ¼ in	9	5	37293	Protektive Pak	**31AR41**
	34 ½ in	2 ¼ in	9	7	37165	Protektive Pak	**31AR46**
ESD Static-Control Storage Boxes							
17⅝"	10 ½ in	3 ⅝ in	—	—	37508	Protektive Pak	**31AR51**
	10 ½ in	5 ½ in	—	—	37501	Protektive Pak	**31AR56**
19⅜"	15 ½ in	6 in	—	—	37506	Protektive Pak	**31AR53**
	15 ½ in	8 ¼ in	—	—	37527	Protektive Pak	**31AR54**
23⅝"	13 ⅜ in	6 ¼ in	—	—	37516	Protektive Pak	**31AR55**
	13 ⅜ in	12 ⅞ in	—	—	37504	Protektive Pak	**31AR52**

High-Temperature Process Totes

- Fiberglass reinforced composite construction
- Temperature range: -60°F to 250°F
- Stackable

Lightweight composite material is resistant to chemicals, rust, corrosion, and extremely high temperatures. Also resists most cutting oils, detergents, mild acids, and alkaline solutions. Can be used to house hot products, allowing them to cool down after they come off a production line, including metal parts, plastics, and glass. Compatible lids are ordered separately.

Stacking & Nesting E9329

Stacking & Nesting D5616

Stacking H3424

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Load Capacity	Stacking Cap.	TOTES Item No.	LIDS Item No.
Stacking & Nesting Totes							
6⅛"	4 ⅞ in	2 ⅛ in	Gray, White, Blue, Black, Red	150 lb	2,500 lb	**E9326**	**E9331**
9¾"	6 ⅛ in	2 ⅛ in	Gray, White, Black, Red, Blue	150 lb	2,500 lb	**E9327**	**E9332**
	6 ⅛ in	4 ½ in	Gray, White, Black, Red, Blue	150 lb	2,500 lb	**E9329**	**E9332**
	9 ¼ in	2 ⅛ in	Gray, White	150 lb	2,500 lb	**D5609**	**D5612**
	9 ¼ in	4 ½ in	Gray, White	150 lb	2,500 lb	**D5611**	**D5612**
11⅜"	9 ¼ in	3 ⅜ in	White	150 lb	2,500 lb	**1NTR6**	**1NTR7**
11¾"	8 ¾ in	4 ⅛ in	Gray, White, Blue, Black, Red	200 lb	2,500 lb	**E9325**	**E9330**
12⅜"	9 ¾ in	2 ⅛ in	Gray, White, Blue, Black, Red	150 lb	2,500 lb	**E9328**	**E9333**
17⅞"	10 ⅝ in	5 in	Blue, Red, Gray	300 lb	3,500 lb	**D5613**	—
19¾"	12 ½ in	6 in	Blue, Red, Gray	300 lb	3,500 lb	**D5614**	—
20½"	12 ⅞ in	8 in	Blue, Red, Gray	300 lb	3,500 lb	**D5615**	—
24¼"	14 ¾ in	8 in	Blue, Red, Gray	300 lb	3,500 lb	**D5616**	—
25¼"	18 in	6 in	Gray, Red, Blue	500 lb	3,500 lb	**D5617**	**D5624**
	18 in	10 in	Gray, Red, Blue	500 lb	3,500 lb	**D5618**	**D5624**
Stacking Totes							
16½"	11 ⅜ in	4 ⅝ in	White, Gray	200 lb	1,400 lb	**H3424**	—
17¾"	10 ½ in	4 ¼ in	White, Gray	200 lb	1,400 lb	**H3425**	—
18¾"	11 ⅞ in	1 ¾ in	White, Gray, Blue	200 lb	1,400 lb	**H3423**	—
20¾"	11 ¼ in	2 ⅜ in	White, Gray	150 lb	1,050 lb	**H3421**	—
22"	12 in	1 ½ in	White, Gray	150 lb	1,050 lb	**H3426**	—
23⅜"	12 in	3 ⅛ in	White, Gray, Blue	200 lb	1,400 lb	**H3427**	**H3430**
	12 in	4 ⅜ in	White, Gray, Blue	225 lb	1,575 lb	**H3429**	**H3430**
	12 in	6 in	White, Gray, Blue	300 lb	2,100 lb	**H3428**	**H3430**
25¾"	15 ¾ in	7 ¼ in	White	—	2,500 lb	**9KKV7**	—
	17 ¾ in	3 in	Gray, White	400 lb	3,500 lb	**F8688**	**D5625**
	17 ¾ in	4 ½ in	Gray, White	400 lb	3,500 lb	**F8673**	**D5625**
	17 ¾ in	6 in	Gray, White	400 lb	3,500 lb	**F8686**	**D5625**
30⅜"	15 ⅞ in	2 ¾ in	White, Gray	150 lb	1,050 lb	**H3422**	—
33⅛"	16 in	8 in	White	400 lb	2,500 lb	**8PTU8**	—

Rolling Trunk 12A006

Rolling Trunk 1NTK5

Rolling Trunk F1331

PELICAN™ J. Terence Thompson suncast PLANO

Storage Trunks

Heavy-duty reinforced exteriors withstand impact and harsh weather conditions. Large capacities accommodate big or bulky items and protect them during transport and storage. Side handles for lifting and can accommodate padlock for security (padlock not included). All trunks have side hinged lids, except Plano Molding trunks have removable lids. Lids attach securely to hold contents when transporting valuable stage equipment, power tools, outdoor gear, or tradeshow materials.

Rolling trunks have wheels for mobility. Pelican, J. Terence Thompson and Suncast trunks have 2 wheels to lift at one end and pull at an angled position. Myton Industries trunks have 4 wheels to roll across flat surfaces.

Stationary Trunk 30F067

Volume Cap.	Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Weight Cap.	Brand	Item No.
Rolling Storage Trunks							
20.94 gal	17"	33 in	14 in	Green	—	Pelican	**12A006**
26.18 gal	17"	33 in	17 in	Green	—	Pelican	**12A005**
38.15 gal	37"	17 ½ in	14 in	Black	200 lb	J Terence Thompson	**1NTK5**
73 gal	46"	46 in	25 ½ in	Taupe	300 lb	Suncast	**15X398**
112.2 gal	30"	45 in	34 in	Black, Blue, Gray, Green, Yellow	850 lb	Myton Industries	**F1330**
112.2 gal	30"	45 in	34 in	Orange, Red, White	850 lb	Myton Industries	**F1331**
Storage Trunks							
20.19 gal	24"	15 in	13 in	Black	—	Plano Molding	**30F067**
23.93 gal	14¼"	30 in	12 ¾ in	Black	141 lb	Plano Molding	**30F068**
26.92 gal	32½"	15 ¾ in	13 ¾ in	Blue/Gray	200 lb	J Terence Thompson	**1NTK4**
38.15 gal	18½"	36 ¼ in	19 ⅝ in	Green	—	Pelican	**12A004**
129 gal	53¾"	53 ¾ in	27 ½ in	Taupe	300 lb	Suncast	**2XJF7**

Scan. Order. Done.
Details on page A1.

49H263

J0555

DECADE PRODUCTS · ORBIS Powered by Menasha Corporation · BUCKHORN A Myers Industries Company

Non-Collapsible Plastic Bulk Containers

- 4-way fork entry, except J0555, 55AA15 and 55AA16 are 2-way fork entry
- Stackable

Heavy-duty containers are suitable for storing and transporting heavy or large quantities of items. Can be securely stacked without damaging contents. Drop doors allow easy access to contents.

Decade Products— Impact-resistant HDPE containers are corrosion and UV resistant, reusable, and recyclable. Can be safely stacked with extra heavy loads. Runners add strength and help provide more stable stacking.

ORBIS—Heavy-duty molded polyethylene containers have an easy-to-clean smooth interior.

Buckhorn—Designed for heavy-duty applications in agricultural, manufacturing, and industrial settings.

Storage Cap.	Outside L	Outside W	Outside H	Load Cap.	Stacking Cap.	Color	Brand	Item No.
1 Drop Door								
25.4 cu ft	48 in	40 in	31 in	1,500 lb	9,000 lb	Gray	Decade Products	**J2333** †
2 Drop Doors								
8.4 cu ft	32 in	30 in	25 in	2,000 lb	1,500 lb	Black, Blue	ORBIS	**F0168**
12.5 cu ft		30 in	34 in	2,000 lb	1,500 lb	Black, Blue	ORBIS	**F0169**
19.3 cu ft	48 in	45 in	25 in	2,000 lb	1,800 lb	Black, Blue	ORBIS	**F0171**
28.7 cu ft		45 in	34 in	2,500 lb	—	Black	Buckhorn	**39H823**
28.7 cu ft		45 in	34 in	2,500 lb	—	Blue	Buckhorn	**39H824**
28.9 cu ft		45 in	34 in	2,000 lb	1,800 lb	Black	ORBIS	**8CAG7**
28.9 cu ft		45 in	34 in	2,000 lb	1,800 lb	Blue	ORBIS	**8CAG8**
No Drop Doors								
13.2 cu ft	48 in	45 in	19 5⁄16 in	2,000 lb	2,000 lb	Black	ORBIS	**49H263**
13.8 cu ft	41 13⁄16 in	28 13⁄16 in	27 13⁄16 in	900 lb	—	Gray	Buckhorn	**55AA16**
13.8 cu ft	42 in	29 in	28 in	900 lb	—	Black	Buckhorn	**J0555**
20 cu ft	48 in	41 ½ in	29 ½ in	2,500 lb	Not Applicable	Gray, White	ORBIS	**E8885**
25.4 cu ft		40 in	31 in	1,500 lb	14,000 lb	Blue, Gray, Green, Red, White, Yellow	Decade Products	**J2328** *
25.4 cu ft		40 in	31 in	1,500 lb	14,000 lb	Blue, Gray, Green, Red, White, Yellow	Decade Products	**J2329** †
25.4 cu ft		40 in	31 in	1,500 lb	14,000 lb	Gray	Decade Products	**39UV16** †
25.4 cu ft		40 in	31 in	1,500 lb	14,000 lb	Gray	Decade Products	**39UV18** *
25.4 cu ft		40 in	34 ⅝ in	1,500 lb	4,800 lb	Gray	Decade Products	**39UV34** *
25.9 cu ft		44 in	29 in	700 lb	—	Black	Buckhorn	**J0556**
25.9 cu ft		44 in	29 13⁄32 in	700 lb	—	Gray	Buckhorn	**55AA15**
28.7 cu ft		48 in	28 in	1,500 lb	14,000 lb	Blue, Gray, White, Yellow	Decade Products	**J2330**
28.7 cu ft		48 in	28 in	1,500 lb	14,000 lb	Gray	Decade Products	**39UV21**
39 cu ft		40 in	46 in	1,500 lb	9,000 lb	Blue, Gray	Decade Products	**J2332** †

** Long-side runners. † Short-side runners.*

1XGG7

4TF40

3HFJ6

BUCKHORN A Myers Industries Company · ORBIS Powered by Menasha Corporation · DECADE PRODUCTS

Collapsible Plastic Bulk Containers

- 4-way fork entry
- Stackable

Heavy-duty containers made to hold heavy or large quantities of items. Resist corrosion, dents, and damage from ultraviolet light (UV). Easy to fold down and stack when not in use to save space. Commonly used in shipping, manufacturing, and warehouses. Drop doors provide easy access to contents.

Storage Cap.	Outside L	Outside W	Outside H	Load Cap.	Stacking Cap.	Color	Brand	Item No.
2 Drop Doors								
8.4 cu ft	32 in	30 in	25 in	1,800 lb	—	Black	Buckhorn	**14L050**
12.9 cu ft		30 in	34 in	1,800 lb	—	Black	Buckhorn	**1NUR6** *
16.9 cu ft	48 in	40 in	25 in	2,500 lb	—	Black	Buckhorn	**36XE23**
17 cu ft	39 ⅝ in	47 5⁄16 in	25 5⁄16 in	2,000 lb	2,000 lb	Black	ORBIS	**49H260**
19.1 cu ft	48 in	45 in	25 in	2,500 lb	—	Black	Buckhorn	**39H822**
24.3 cu ft		40 in	34 in	2,500 lb	—	Black	Buckhorn	**1XGG6**
24.5 cu ft	56 ½ in	48 in	25 ⅝ in	2,000 lb	2,000 lb	Black	ORBIS	**49H264**
25.2 cu ft	39 ⅝ in	47 5⁄16 in	34 5⁄16 in	2,000 lb	2,000 lb	Black	ORBIS	**49H261**
27.9 cu ft	48 in	40 in	34 in	2,000 lb	2,000 lb	Black	ORBIS	**8YKH1**
28.3 cu ft		45 in	34 in	2,500 lb	—	Black	Buckhorn	**1XGG7**
28.4 cu ft		40 in	33 in	1,200 lb	—	Blue	Buckhorn	**4TF40**
28.7 cu ft	62 ½ in	48 in	25 in	1,500 lb	1,500 lb	Black	ORBIS	**49H265**
32.8 cu ft	48 in	40 in	39 in	2,000 lb	2,000 lb	Black	ORBIS	**9FGR4**
36.3 cu ft		45 in	41 in	2,000 lb	—	Black	Buckhorn	**36XE25**
39.5 cu ft		45 in	44 in	2,000 lb	—	Black	Buckhorn	**36XE26**
41.7 cu ft		40 in	46 in	1,200 lb	—	Blue	Buckhorn	**4TF41**
42.6 cu ft	62 ½ in	48 in	34 in	1,500 lb	1,500 lb	Black	ORBIS	**3HFJ6**
42.6 cu ft	64 ½ in	48 in	34 ⅝ in	2,000 lb	2,000 lb	Black	ORBIS	**49H266**
46 cu ft	70 in	48 in	34 in	1,500 lb	1,500 lb	Black	ORBIS	**3HFJ8**
47 cu ft	48 in	45 in	51 in	2,000 lb	—	Black	Buckhorn	**36XE27**
52.3 cu ft	78 in	48 in	34 in	1,500 lb	1,500 lb	Black	ORBIS	**3HFJ9**
67.4 cu ft	62 ½ in	48 in	50 in	1,500 lb	1,500 lb	Black	ORBIS	**3HFJ7**
Removable Walls								
20 cu ft	48 in	40 in	28 in	1,320 lb	6,600 lb	Gray	Decade Products	**39UV33**

Outside Dim. L	Outside Dim. W	Outside Dim. H	Use With	Brand	Item No.
Lids					
33 in	31 in	2 in	1XGG5, 1NUR6, 14L049, 14L050	Buckhorn	**4TF36**
40 in	48 in	2 in	4TF40, 4TF41	Buckhorn	**4TF39**
45 in	48 in	3 in	2YA80, 2YA81	Buckhorn	**4TF37**
48 in	40 in	2 ¼ in	1XGG6	Buckhorn	**1XGG8**
48 in	45 in	2 ¼ in	1XGG7	Buckhorn	**1XGG9**
48 ½ in	40 ¼ in	2 ⅞ in	1NUR7, 1NUR8	Buckhorn	**1NUR9**

** Steel corner hitplates prevent damage from fork tines.*

NashvilleWire
PRODUCTS

Collapsible Wire Bulk Containers

- 4-way fork entry
- 1 drop door

Hold items that may leak, need to dry, or can't be stored in closed containers. Open steel wire mesh design allows for clear visibility to contents and lets air and liquids pass through. Fold down and can be stacked when not in use to save space. Commonly used in shipping, manufacturing, and warehouses.

Mobile containers are mounted on 4 casters, 2 rigid and 2 swivel, to easily move container to any location in a facility.

Stationary
5EU64

Volume Cap.	Outside L	Outside W	Mesh Size	STATIONARY Item No.	STATIONARY Outside H	STATIONARY Load Cap.	STATIONARY Stacking Cap.	MOBILE Item No.	MOBILE Outside H	MOBILE Load Cap.	MOBILE Stacking Cap.
3 ga											
17.2 cu ft	32 in	40 in	2 in x 2 in	**5EU69**	34 ½ in	4,000 lb	12,000 lb	—	—	—	—
18.4 cu ft	32 in	40 in	2 in x 2 in	**3W550**	34 ½ in	4,000 lb	12,000 lb	**5EU67**	35 ½ in	2,800 lb	8,400 lb
22.9 cu ft	32 in	42 in	2 in x 2 in	—	—	—	—	**24VT22**	40 in	2,000 lb	2,400 lb
24.3 cu ft	40 in	48 in	2 in x 2 in	**5EU63**	30 ½ in	4,000 lb	12,000 lb	**24VT23**	32 in	4,000 lb	8,400 lb
28.3 cu ft	40 in	48 in	2 in x 2 in	**5EU70**	36 ½ in	4,000 lb	12,000 lb	—	—	—	—
30.3 cu ft	40 in	48 in	2 in x 2 in	**3W552**	36 ½ in	4,000 lb	12,000 lb	**5EU68**	37 ½ in	2,800 lb	8,400 lb
36.4 cu ft	40 in	48 in	2 in x 2 in	**5EU64**	42 ½ in	4,000 lb	8,400 lb	**24VT24**	44 in	4,000 lb	8,400 lb
11 ga											
5 cu ft	20 in	32 in	½ in x ½ in	**3W547**	21 in	1,000 lb	3,000 lb	**24VT21**	22 in	1,000 lb	1,360 lb
	20 in	32 in	1 in x 1 in	**3W548**	21 in	1,000 lb	3,000 lb	**5EU66**	21 in	1,000 lb	1,360 lb
24.3 cu ft	32 in	42 in	2 in x 2 in	**5EU65**	39 in	2,000 lb	2,000 lb	—	—	—	—

20JJ98

NashvilleWire
PRODUCTS

Non-Collapsible Wire Bulk Containers

- 4-way fork entry
- 1 drop door
- 2" x 2" wire mesh
- 4000-lb load capacity
- 8000-lb stacking capacity

Hold items that may leak, need to dry, or can't be stored in closed containers. Open steel wire mesh design allows clear visibility of contents and lets air and liquids pass through. Commonly used in shipping, manufacturing, and warehouses.

Volume Cap.	Outside L	Outside W	Outside H	Item No.
18.4 cu ft	32 in	40 in	34 in	**20JK01**
30.3 cu ft	40 in	48 in	36 in	**20JJ98**
36.4 cu ft	40 in	48 in	42 in	**20JJ99**

19ZA16

MODRoto
Shaping Your Ideas in Plastic

Stackable Bulk Containers with Lids

- Molded in pockets for fork entry

Sturdy plastic containers are water and chemical resistant. Include removable lids that securely attach to the container's rim to cover, conceal, and protect contents from dust and debris.

Volume Cap.	Overall Length	Overall Width	Overall Height	Load Cap.	Fork Entry	Color	Brand	Item No.
16.5 cu ft	55 in	30 in	24 in	650 lb	2-Way Entry	Black, Blue, Gray, Orange, White	Myton Industries	**F1389**
27.5 cu ft	45 in	45 in	33 in	700 lb	2-Way Entry	Blue	Ship Shape	**19ZA07**
32 cu ft	50 in	45 in	39 ¼ in	2,000 lb	4-Way Entry	White	Ship Shape	**19ZA16**
35 cu ft	45 in	45 in	44 ¼ in	800 lb	2-Way Entry	Blue	Ship Shape	**19ZA10**

4TJ24

Collapsed

4TJ19

Drop Door

STEEL KING
BUILT TO DELIVER

Solid Steel Bulk Containers

- 4-way fork entry
- 4000-lb load capacity
- 4000-lb stacking capacity
- Green enamel finish

Built to withstand the weight and potential damage from heavy loads. Commonly used in warehouses, manufacturing, and machine shops to store and transport heavy items like metal scraps, machine parts, and maintenance equipment.

2MVU5 and 4TJ24 are collapsible with sides that easily fold down for storage and slide up and lock in place when needed. 2MVU5 has solid steel sides and bottom. 4TJ24 has wire mesh sides and bottom for ventilation.

4TJ19 through 4TJ22 have a wide adjustable side door that opens to a tray position for easy access to contents.

4TJ25 and 4TJ26 have rounded corners and steel stacking legs.

Volume Cap.	Outside L	Outside W	Outside H	Item No.	
1 Drop Door					
5 cu ft	48 in	40 in	30 ½ in	**4TJ22**	
18.4 cu ft	48 in	45 in	42 in	**4TJ24**	*
24.3 cu ft	36 in	30 in	30 ½ in	**4TJ19**	
24.3 cu ft	44 in	36 in	30 ½ in	**4TJ21**	
28.3 cu ft	48 in	45 in	42 in	**2MVU5**	*
36.4 cu ft	40 in	32 in	30 ½ in	**4TJ20**	
No Drop Doors					
17.8 cu ft	41 ½ in	33 ½ in	28 ½ in	**4TJ25**	
26.7 cu ft	49 ½ in	41 ½ in	28 ½ in	**4TJ26**	

**Collapsible.*

Snap-On Lid
20WT16

Mobile with Hinged Top
20WT15

SNYDER INDUSTRIES, INC.

ASM Insulated Bulk Containers

- Molded-in pockets for fork entry
- 2000-lb load capacity
- Blue color
- Meet FDA standards

Designed to transport temperature-sensitive items such as dry ice, food, drinks, chemicals, pharmaceutical, and healthcare products. Molded polyethylene construction with polyurethane foam insulation. Squared interior corners maximize utilization of interior space.

Removable lids make loading and unloading containers easy and have tie downs for secure attachment.

Hinged lids have a rubber latching system for secure hold.

Volume Cap.	Overall Length	Overall Width	Overall Height	Fork Entry	Mobility	Item No.	
Removable Lid Containers							
2 cu ft	24 in	30 in	21 in	2-Way Entry	Stationary	**20PF44**	
30 cu ft	49 in	43 in	43 in	4-Way Entry	Stationary	**20WT16**	
Hinged Lid Containers							
5 cu ft	37 in	30 in	18 in	—		**20WT12**	
11 cu ft	42 in	28 in	28 in	2-Way Entry	Stationary	**20WT13**	
11 cu ft	42 in	28 in	28 in	2-Way Entry	Stationary	**20WT14**	
11 cu ft	43 in	27 ½ in	39 ½ in	2-Way Entry	Mobile	**20WT15**	*

**** Includes 6" casters; two fixed, two locking swivel.***

Tub with lid and pallet (sold separately)

REMCO PRODUCTS

Food Transport Bulk Containers

- FDA compliant
- Meet USDA specifications
- White color

High-density polyethylene (HDPE) containers can be used to transport a variety of food products, pharmaceuticals, and agricultural products. Can be nested, stacked, and moved with a forklift. Smooth, easy-to-clean corners and surface.

Item	Overall Length	Overall Width	Overall Height	Load Cap.	Stacking Cap.	Item No.
Stacking and Nesting Tote Tub	40 ¾ in	37 in	20 ¾ in	800 lb	1600 lbs.	**4LMK3**
Lid for Tote Tub						**4LMK4**
Pallet for Tote Tub						**4LMK5**

Suitcase-Style Equipment Cases

PELICAN™ plasticase NANUK™ PROFESSIONAL PROTECTIVE CASES

Protect valuable instruments, tools, and equipment from impact, dust, and liquids. Side-hinged opening and carrying handles make cases easy to load and transport.

Cases with wheels have handles for pulling, making it easier to move heavy items.

Order cases with foam to cushion and minimize movement of items in transport.

Heavy-Duty—Pelican Storm Series cases are constructed of strong HPX resin and withstand harsh conditions. Press and Pull latches lock automatically, but open with a light touch. Waterproof and crushproof with double-layered, soft-grip handles.

Lightweight—Pelican Air Series cases are made of extra light HPX polymer and are extremely water resistant. Automatic pressure equalization valve balances interior air pressure and keeps water out. Fold-down overmolded handles and stainless steel padlock protectors.

Standard—**Pelican** Protector Series cases are injection molded making them strong, yet lightweight. Automatic pressure equalization valve balances interior air pressure and keeps water out - ideal for flying or using at high altitudes. **Nanuk** cases are made with a tough, waterproof resin shell and have PowerClaw latches to keep case securely closed. Soft grip ergonomic handles.

Lightweight Case with No Wheels 52PF73

Standard Case with 2 Wheels G3129

Inside Width	Inside Length	Inside Depth	Closure Type	Brand	FOAM INCLUDED Item No.	FOAM INCLUDED ▶CHOOSE: Color	NO FOAM INCLUDED Item No.	NO FOAM INCLUDED ▶CHOOSE: Color
Heavy-Duty								
No Wheels								
6¼ in	17 in	6¼ in	Padlock; Press and Pull	Pelican	G3177	Black	G3178	Black
7½ in	9½ in	4¼ in	Padlock; Press and Pull	Pelican	G3167	Black, Green, Yellow	G3168	Black
	9½ in	7¼ in	Padlock; Press and Pull	Pelican	G3169	Black, Yellow	G3170	Black
10½ in	15 in	6 in	Padlock; Press and Pull	Pelican	G3173	Black, Yellow	G3174	Black, Yellow
11¾ in	17 in	6¼ in	Padlock; Press and Pull	Pelican	G3175	Black, Yellow	G3176	Black, Yellow
13 in	18 in	8⅜ in	Padlock; Press and Pull	Pelican	G3183	Black	G3184	Black
13¼ in	13 in	6 in	Padlock; Press and Pull	Pelican	G3171	Black, Yellow	G3172	Black
14 in	20 in	7¾ in	Padlock; Press and Pull	Pelican	G3187	Black, Yellow	G3188	Black, Green, Yellow
17 in	22 in	8 in	Padlock; Press and Pull	Pelican	G3191	Black, Yellow	G3192	Black, Yellow
2 Wheels								
11½ in	20½ in	7¼ in	Padlock; Press and Pull	Pelican	G3185	Black, Green, Yellow	G3186	Black, Green, Yellow
14 in	20 in	10 in	Press and Pull	Pelican	G3189	Black	G3190	Black, Green
17 in	22 in	10 in	Padlock; Press and Pull	Pelican	G3193	Black, Yellow	G3194	Black, Yellow
	22 in	12¾ in	Press and Pull	Pelican	G3195	Black, Yellow	G3196	Black, Yellow
18 in	29 in	10½ in	Press and Pull	Pelican	G3199	Black, Yellow	G3200	Black, Yellow
	29 in	13¾ in	Press and Pull	Pelican	G3201	Black	G3202	Black
20¾ in	29¾ in	17¾ in	Press and Pull	Pelican	G3203	Black	G3204	Black
21 in	22½ in	11⅜ in	Press and Pull	Pelican	G3197	Black	G3198	Black
Lightweight								
No Wheels								
9½ in	18¾ in	7¾ in	Press and Pull	Pelican	61NJ26	Black	61NJ27	Black
10¼ in	17¾ in	6⅛ in	Double Throw	Pelican	52PF73	Black	52PF74	Black
11¼ in	20½ in	6¾ in	Double Throw	Pelican	52PF77	Black	52PF78	Black
11⅜ in	15⅛ in	8½ in	Press and Pull	Pelican	55NR82	Black	55NR81	Black
	15⅛ in	8½ in	Press and Pull	Pelican	—	—	55NR80	Black
	15⅛ in	8½ in	Press and Pull	Pelican	—	—	55NR79	Black
12¾ in	23 in	7½ in	Double Throw	Pelican	52PF85	Black	—	—
	23 in	7½ in	Double Throw	Pelican	52PF87	Black	—	—
13 in	17⅜ in	9¾ in	Press and Pull	Pelican	—	—	55NR83	Black
	17⅜ in	9¾ in	Press and Pull	Pelican	—	—	55NR84	Black
	17⅜ in	9¾ in	Press and Pull	Pelican	—	—	55NR85	Black
14 in	26 in	8⅜ in	Double Throw	Pelican	52PF89	Black	52PF90	Black
2 Wheels								
10¾ in	21⅝ in	9 in	Press Button	Pelican	61NJ28	Black	61NJ29	Black
11¼ in	20⅜ in	7¼ in	Double Throw	Pelican	52PF81	Black	52PF82	Black
	20⅜ in	7¼ in	Double Throw	Pelican	52PF84	Black	—	—
12¼ in	24½ in	10¼ in	Press and Pull	Pelican	61NJ30	Black	61NJ31	Black
14⅛ in	28⅛ in	11¾ in	Press and Pull	Pelican	61NJ32	Black	—	—
15½ in	29⅝ in	9⅜ in	Double Throw	Pelican	52PF93	Black	52PF94	Black
	29⅝ in	9⅜ in	Double Throw	Pelican	52PF96	Black	—	—
15⅞ in	21 in	11⅝ in	Press and Pull	Pelican	55NR86	Black	55NR87	Black
	21 in	11⅝ in	Press and Pull	Pelican	—	—	55NR88	Black
17½ in	23½ in	13¼ in	Press and Pull	Pelican	55NR89	Black	55NR91	Black
Standard								
No Wheels								
4¾ in	7¼ in	3⅜ in	Double Throw	Pelican	E9265	Beige, Blue, Orange	G3108	Black
4⅞ in	7⅜ in	3⅛ in	Latches; Padlock	Nanuk cases	H7667	Black, Orange, Yellow	H7663	Black, Orange, Yellow
5¾ in	8¼ in	3¾ in	Latches	Pelican	—	—	G3109	Black
	13⅝ in	11¾ in	Double Throw	Pelican	G3115	Black	—	—
6 in	8⅜ in	3¾ in	Latches; Padlock	Nanuk cases	H7668	Black, Orange, Yellow	H7664	Black, Orange, Yellow
	10½ in	3⅛ in	Double Throw	Pelican	G3110	Beige, Black, Green, Orange, Silver, Yellow	G3111	Beige, Black
7 in	9⅛ in	6⅛ in	Double Throw	Pelican	—	—	G3113	Black, Orange, Silver, Yellow
7⅛ in	9¼ in	4⅛ in	Double Throw	Pelican	F0575	Beige, Black, Gray, Orange, Yellow	G3112	Beige, Black, Green, Orange, Silver, Yellow
7⅜ in	9⅜ in	5½ in	Latches; Padlock	Nanuk cases	G5368	Black, Orange, Yellow	—	—
9¼ in	13¾ in	6¼ in	Latches; Padlock	Nanuk cases	G5371	Black, Orange, Yellow	G5370	Black, Orange, Yellow
9⅞ in	18½ in	10⅞ in	Double Throw	Pelican	G3120	Black	—	—
10¼ in	14⅝ in	6⅛ in	Double Throw	Pelican	F0577	Beige, Black, Orange, Yellow	G3119	Black, Orange, Silver, Yellow
10½ in	15 in	6¼ in	Latches; Padlock	Nanuk cases	G5374	Black, Orange, Yellow	G5373	Black, Orange, Yellow
11¼ in	16¾ in	6⅛ in	Double Throw	Pelican	G3127	Beige, Black, Silver	G3128	Black, Orange, Silver, Yellow
11¾ in	17 in	6⅜ in	Latches; Padlock	Nanuk cases	G5377	Black, Orange, Yellow	—	—
11⅞ in	8⅞ in	5¼ in	Double Throw	Pelican	F0968	Beige, Black, Orange, Silver, Yellow	G3114	Beige, Black, Orange, Silver, Yellow
12⅞ in	18 in	6¾ in	Double Throw	Pelican	G3131	Black, Orange, Yellow	G3132	Black, Orange, Silver, Yellow
13 in	18 in	6⅞ in	Latches; Padlock	Nanuk cases	—	—	G5379	Black, Orange, Yellow
13¼ in	13¼ in	4⅛ in	Latches; Padlock	Nanuk cases	J4860	Orange, Yellow	—	—
14 in	20 in	8 in	Latches; Padlock	Nanuk cases	G5383	Black, Orange, Yellow	G5382	Black, Orange, Yellow
14¼ in	18⅝ in	7¾ in	Double Throw	Pelican	E0643	Black, Orange, Silver, Yellow	G3133	Black, Orange, Silver, Yellow
16½ in	21½ in	8 in	Padlock	Pelican	—	—	13E498	Black
	21½ in	8 in	Double Throw	Pelican	E0244	Black, Silver	G3136	Beige, Orange, Silver, Yellow
17 in	22 in	8¼ in	Latches; Padlock	Nanuk cases	G5386	Black, Orange, Yellow	G5385	Black, Orange, Yellow
2 Wheels								
7½ in	17⅛ in	16 in	Double Throw	Pelican	G3117	Black	—	—
11 in	19¾ in	7⅝ in	Double Throw	Pelican	G3129	Beige, Black, Green	G3130	Beige, Black, Green
11¼ in	20½ in	7½ in	Latches; Padlock	Nanuk cases	H7670	Black, Orange, Yellow	—	—
15 in	19⅞ in	9 in	Double Throw	Pelican	G3134	Beige, Black, Orange, Yellow	G3135	Beige, Black, Orange, Yellow
15¼ in	20½ in	10⅛ in	Latches; Padlock	Nanuk cases	H7671	Black, Orange, Yellow	—	—
16⅜ in	21½ in	12½ in	Double Throw	Pelican	G3139	Beige, Black	G3140	Beige, Black
16¾ in	21¾ in	10⅝ in	Double Throw	Pelican	G3137	Beige, Black	G3138	Beige, Black
4 Wheels								
16½ in	28⅛ in	9¼ in	Double Throw	Pelican	—	—	65CY68	Black
21 in	27¾ in	15½ in	Double Throw	Pelican	G3141	Beige	G3142	Beige, Black

29PH25

WESTWARD STANLEY

Storage Trunks

Large capacities accommodate heavy tools, gear, and equipment and protect them during storage or transport.

Westward trunks are aluminum construction with steel hinges. Front latches and side handles.

Stanley trunks are plastic with side latches to secure lids. 2 wheels and an extendable handle make them easy to pull from one location to another.

Overall Length	Overall Width	Overall Height	Color	Brand	Item No.
Storage Trunks					
14 ¼ in	19 in	16 ¾ in	Gray	Westward	**29PH25**
16 ¼ in	21 ½ in	18 ½ in	Gray	Westward	**29PH26**
18 in	24 in	20 ½ in	Gray	Westward	**29PH27**
Storage Trunks with All-Terrain Wheels					
11 ¾ in	14 ⅛ in	16 ¾ in	Black	STANLEY	**14C632**
18 ⅝ in	29 ⅞ in	19 in	Black	STANLEY	**14C636**

Standard Case
G3145

Cube-Style
20FZ66

PELICAN™ SKB CASES plasticase NANUK™ PROFESSIONAL PROTECTIVE CASES

Protective Transport Cases

- Waterproof
- Impact resistant
- Folding handle, except where noted

Rugged exteriors protect against drops and impacts, and big interiors hold large quantities of items or bulky, heavy equipment. Ideal for shipping on truck beds or in airplane cargo holds.

Cases with wheels have handles for pulling, making it easier to move heavy items.

Order cases with foam to cushion and minimize movement of items in transport.

Pelican—Protector Series cases are built to withstand extreme weather and harsh environments. Integrated pull handles and easy-to-open double throw latches. Automatic pressure equalization valve makes them ideal for use when flying.

SKB—Constructed of tough polypropylene resin with molded pull handles and trigger release latch system for secure lid closure.

Nanuk—Rugged resin shell with PowerClaw latches to keep lid securely closed.

							FOAM INCLUDED		NO FOAM INCLUDED	
Inside Width	Inside Length	Inside Depth	Depth (Top Lid - Bottom)	Case Closure Type	Number of Latches	Brand	Item No.	▶CHOOSE: Color	Item No.	▶CHOOSE: Color
Standard Suitcase-Style Cases										
4 Wheels										
17½ in	28⅝ in	10⅝ in	1 ⅞ in – 8 ⅞ in	Double Throw	7	Pelican	**G3145** *	Green, Beige, Black	**G3146** *	Black, Green
Standard Protective Transport Cases										
No Wheels										
10 in	16 in	10 in	1 ½ in – 8 ½ in	Latches	2	Skb	**55KC55**	Black	**55KC54**	Black
24⅛ in	47⅝ in	17¾ in	3 ¼ in – 14 ½ in	Double Throw	8	Pelican	**13D690**	Black	**13D691**	Black
2 Wheels										
13 in	22 in	12 in	2 in – 10 in	Latches	2	Skb	—	—	**418R75** *	Black
	22 in	12 in	2 in – 10 in	Latches	2	Skb	—	—	**55KC62**	Black
14 in	29 in	15 in	2 in – 13 in	Latches	3	Skb	—	—	**55KC70**	Black
17 in	22 in	10⅝ in	2 in – 8 ⅝ in	Latches	4	Skb	—	—	**418R26** *	Black
	22 in	10⅝ in	2 in – 8 ⅝ in	Latches	2	Skb	**418R25** *	Black	—	—
	22 in	12¾ in	2 in – 10 ¾ in	Latches	4	Skb	**418R29** *	Black	**418R30** *	Black
	22 in	12⅞ in	2 ⅛ in – 10 ¾ in	Latches, Padlock	4	Nanuk cases	**H7672** *	Black, Yellow	—	—
	23 in	14 in	2 ½ in – 11 ½ in	Latches	4	Skb	**55KC67** *	Black	**55KC66** *	Black
17½ in	29⅛ in	12 in	2 in – 10 in	Latches	5	Skb	**55KC68** *	Black	—	—
18 in	29 in	14 in	2 ½ in – 11 ½ in	Latches	5	Skb	**418R36** *	Black	**418R38** *	Black
21 in	30 in	18 in	2 in – 16 in	Latches	7	Skb	**418R40**	Black	**K4990** *	Green
	30 in	18 in	2 in – 16 in	Latches	7	Skb	—	—	**K4990**	Beige
22 in	29 in	16 in	2 in – 14 in	Latches	7	Skb	—	—	**K4991** *	Black
	29 in	16 in	2 in – 14 in	Latches	7	Skb	—	—	**K4991**	Beige
22½ in	22½ in	12½ in	2 in – 10 ½ in	Latches	6	Skb	**418R32**	Black	**418R33** *	Black
24 in	24 in	14 in	2 in – 12 in	Latches	6	Skb	—	—	**K4992** *	Black, Beige
	34 in	12½ in	2 ½ in – 10 in	Double Throw	8	Pelican	**G3155**	Green, Beige	**13E553**	Black
26 in	30¾ in	15½ in	2 in – 13 ½ in	Latches	7	Skb	**418R96** *	Black	**418T23** *	Black
4 Wheels										
19⅝ in	28¼ in	17⅝ in	3 ½ in – 14 ⅛ in	Double Throw	7	Pelican	**G3147** *	Beige	**G3148** *	Black, Beige
	28¼ in	17⅝ in	3 ½ in – 14 ⅛ in	Double Throw	5	Pelican	**65CY63** †	Black	—	—
21 in	30 in	18 in	2 in – 16 in	Latches	7	Skb	—	—	**418R41** *	Black
21½ in	41⅛ in	14⅞ in	7 ⅝ in – 7 ¼ in	Double Throw	6	Pelican	**20FZ64**	Black	**13E575**	Black
24 in	23¾ in	12⅞ in	2 in – 11 ⅞ in	Double Throw	6	Pelican	**13E521** *	Beige	**G3144** *	Black, Beige
25⅛ in	30⅛ in	15⅝ in	2 ⅞ in – 12 ⅛ in	Double Throw	7	Pelican	**G3149** *	Beige, Black	**G3150** *	Black, Green, Beige
Heavy-Duty Transport Cases										
2 Wheels										
17 in	22 in	12⅞ in	2 ⅛ in – 10 ¾ in	Latches, Padlock	4	Nanuk cases	**H7672** *	Orange	—	—
Cube-Style Protective Transport Cases										
No Wheels										
17 in	17 in	16 in	2 in – 14 in	Latches	4	Skb	**55KC57**	Black	—	—
20 in	20 in	20 in	5 in – 15 in	Double Throw	6	Pelican	**20FZ24**	Black	—	—
24 in	24 in	24 in	5 in – 15 in	Double Throw	6	Pelican	—	—	**G3107**	Black
	24 in	24 in	5 in – 19 in	Double Throw	6	Pelican	**20FZ66**	Black	—	—
4 Wheels										
18 in	18 in	18 in	4 ½ in – 13 ½ in	Double Throw	6	Pelican	**20FZ65**	Black	**13D675**	Black

** Folding/telescoping handle. † Retractable handle.*

Protective Long Cases

- Waterproof
- Impact resistant

Specifically designed to transport and store long items, such as instruments, cameras, guns, and other valuable gear. Integrated wheels and handle for pulling make it easier to move heavy items.

Order cases with foam to cushion and minimize movement of items in transport.

Lightweight—Constructed of super lightweight HPX polymer- ideal when items must be carried over long distances such as survey equipment or camera tripods. Press and Pull latches for secure closure.

Standard—**Pelican** Protector Series cases have an automatic pressure equalization valve - ideal when flying or using at high elevations. Injection-molded solid exterior walls and easy-to-open double throw latches. **SKB** cases are constructed of high-strength polypropylene resin. Trigger release latch system with cushion grip handles and automatic ambient pressure equalization valve.

Heavy-duty—Made from strong HPX resin to withstand drops and extreme weather conditions. Press and Pull latches automatically lock, but open with a light touch.

Lightweight
55NR92

Standard
418T35

Heavy-Duty
G3207

							FOAM INCLUDED		NO FOAM INCLUDED	
Bottom Depth	Inside Width	Inside Length	Inside Depth	Load Capacity	Number of Latches	Brand	Item No.	▶CHOOSE: Color	Item No.	▶CHOOSE: Color
Lightweight Long Cases										
2 Wheels										
5½ in	16¾ in	44 in	8 in	—	2	Pelican	**55NR92**	Black	—	—
Standard Long Cases										
2 Wheels										
3½ in	13½ in	35¾ in	5¼ in	136 lb	4	Pelican	**G3151**	Green, Beige	**G3152**	Black
	13½ in	35¾ in	5¼ in	136 lb	7	Pelican	**G3151**	Black	—	—
	13½ in	42 in	5¼ in	160 lb	4	Pelican	**G3153**	Green, Beige, Black	—	—
	13½ in	50½ in	5¼ in	187 lb	4	Pelican	**G3159**	Green, Beige, Black	—	—
	13½ in	50½ in	5¼ in	90 lb	4	Pelican	—	—	**G3160**	Black
4 in	14½ in	42½ in	5½ in	50 lb	4	Skb	**418R46**	Black	—	—
4½ in	14½ in	36½ in	6 in	50 lb	4	Skb	**418R42**	Black	**418R44**	Black
	14½ in	36½ in	6 in	50 lb	4	Skb	**418R43**	Green	—	—
	14½ in	36½ in	6 in	50 lb	4	Skb	**418T26**	Beige	—	—
	14½ in	50½ in	6 in	50 lb	6	Skb	—	—	**418T39**	Beige
6 in	18 in	60 in	8 in	330 lb	6	Skb	**55KC91**	Black	—	—
6¾ in	15⅝ in	54⅝ in	8⅝ in	280 lb	6	Pelican	**G3161**	Black	—	—
7 in	16 in	56 in	9 in	50 lb	6	Skb	**418T43**	Black	**418T44**	Black
8 in	14½ in	44½ in	10 in	347 lb	6	Skb	**55KC85**	Black	—	—
9⅝ in	12⅞ in	41 in	12⅛ in	267 lb	5	Pelican	**G3157**	Black, Green, Beige	**G3158**	Black, Green, Beige
10⅛ in	13½ in	42½ in	12⅛ in	50 lb	6	Skb	**418T34**	Black	**418T35**	Black
4 Wheels										
6¾ in	15⅝ in	54⅝ in	8⅝ in	280 lb	6	Pelican	—	—	**G3162**	Black
Heavy-Duty Long Cases										
2 Wheels										
4 in	14 in	36½ in	6 in	—	6	Pelican	**G3205**	Black, Green	**G3206**	Black
	14 in	44 in	6 in	—	6	Pelican	**G3207**	Black	—	—
	14 in	50½ in	6 in	—	6	Pelican	**G3211**	Black, Green	—	—
6½ in	14 in	44 in	8½ in	—	6	Pelican	**G3209**	Black, Green	**G3210**	Black

Butterfly Closure
418P75

Latch Closure
11Z988

Protective Rack-Mount Cases

Built-in interior racks absorb shock and vibration when transporting or storing sensitive equipment like servers, audiovisual gear, telecommunications hardware, and computers.

Butterfly closure—Ensures lids stay in place during transit. Cases are molded polyethylene with 2" deep front lid and 5" deep rear lid that open fully. Inner rack is built of aluminum alloy with carbon steel rack rails. 8 elastomeric isolators provide shock and vibration mitigation.

Latch closure—BlackBox series cases are constructed of blended resin with a light-duty steel frame and 8 cylindrical shock mounts that attach directly to the case and isolate equipment from vibration and impact forces.

Inside Width	Inside Length	Inside Depth	Minimum Operating Temperature	Max. Operating Temp.	Load Capacity	Brand	NO FOAM INCLUDED Item No.
Butterfly Closure							
19 in	31 in	5½ in	-40 °F	180 °F	150 lb	Skb	**418P75**
		7 in	-40 °F	180 °F	150 lb	Skb	**418P76**
		8¾ in	-40 °F	180 °F	150 lb	Skb	**418P77**
		12¼ in	-40 °F	180 °F	150 lb	Skb	**418P78**
		15¾ in	-40 °F	180 °F	150 lb	Skb	**418P79**
		19¼ in	-40 °F	180 °F	150 lb	Skb	**418P80**
		24½ in	-40 °F	180 °F	150 lb	Skb	**418P81**
Latches Closure							
23½ in	31⅜ in	11⅜ in	-20 °F	140 °F	100 lb	Pelican	**11Z991**
		13⅛ in	-20 °F	140 °F	100 lb	Pelican	**11Z992**
		14⅞ in	—	140 °F	100 lb	Pelican	**11Z986**
		18⅜ in	—	140 °F	100 lb	Pelican	**11Z987**
		21⅞ in	—	140 °F	100 lb	Pelican	**11Z988**
		25⅜ in	—	140 °F	100 lb	Pelican	**11Z989**
		30⅝ in	—	140 °F	100 lb	Pelican	**11Z990**

Protective Tube Cases

- Lockable

Cylindrical cases have adjustable lengths to fit long items like fishing poles, posters, and banners. Prevent contents from bending or being crushed.

437U08 and 437U07 have a secure locking system, an easy-access lid and convenient carrying handle.

437U06 is a telescoping tube with a 3-tier design and a side handle.

437U05 has a 2-piece design with extra thick walls. Carrying handle and integrated wheels make transporting heavier items easy.

437U05

Inside Width	Inside Length	Inside Depth	NO FOAM INCLUDED Item No.	Color
No Wheels				
2½ in	104 in	2½ in	**437U08**	Beige
3¾ in	104 in	3¾ in	**437U07**	Beige
5 in	86 in	5 in	**437U06**	Black
2 Wheels				
8 in	110 in	8 in	**437U05**	Black

420H32

13U670

Small Parts Compartmented Boxes with Removable Cups

- Double latch closure
- Clear lids

Sturdy plastic boxes separate and store fasteners, fittings, connectors, and small parts keeping them dust and dirt free. Removable cups are easy to refill and have open tops to provide visibility to contents. When lids are closed, cups are locked in place. Convenient carrying handle.

Overall Length	Overall Width	Overall Height	Color	Number of Adjustable Dividers	Brand	Item No.
17½ in	14 in	2⅞ in	Clear/Black/Yellow	10	STANLEY	**13U671**
	14 in	4½ in	Black/Yellow	0	DeWalt	**420H32**
17⅜ in	14½ in	4½ in	Clear/Black/Yellow	10	STANLEY	**13U670**

32 Compartments K4979

14 Compartments 39AL10

Small Parts Compartmented Boxes with Adjustable Dividers

- Translucent lids allow quick view of contents

Sturdy plastic boxes separate and store fasteners, fittings, connectors, and small parts keeping them dust and dirt free. Adustable dividers create custom-sized compartments within the box.

Cam Action—Tight-sealing latches provide a waterproof seal to protect contents.

Double Latch and Latch—Secure locking latches on front of box.

Mechanical—Sturdy latches are black color for quick identification and give a tight lid closure.

Snap—Push-to-close with snap shut latches.

Overall Length	Overall Width	Overall Height	Color	▶CHOOSE: Max. No. of Compart.	Brand	Item No.
Cam Action Closure						
9⅛ in	4⅞ in	1½ in	Clear	18	Plano Molding	**19YM95**
10¾ in	7½ in	1¾ in	Clear	20	Plano Molding	**19YM89**
14 in	8⅞ in	3 in	Clear	3, 15	Plano Molding	**K4973**
	9 in	1⅞ in	Clear	23	Plano Molding	**19YM96**
Double Latch Closure						
4⅛ in	7 in	1½ in	Clear	18	Flambeau	**30C429**
9 in	16½ in	1½ in	Clear	24	Flambeau	**1NTH7**
9⅛ in	14¼ in	2 in	Clear	22	Flambeau	**K4974**
9¾ in	16½ in	3¼ in	Clear	9, 15	Flambeau	**K4975**
14 in	15 in	3½ in	Clear	6	Flambeau	**5MU44**
Latch Closure						
3⅜ in	4⅝ in	1¼ in	Clear	6	Flambeau	**1NTH2**
	4⅝ in	1⅜ in	Clear	6	Flambeau	**30C427**
4⅛ in	7 in	1½ in	Clear	18	Flambeau	**K4976**
7¼ in	11 in	1¾ in	Clear	1, 16	Flambeau	**K4977**
9 in	7 in	2 in	Clear	16	Plano Molding	**437T91**
9⅛ in	5 in	1¼ in	Clear	9	Plano Molding	**437T96**
9¾ in	5 in	1½ in	Clear	18	Flambeau	**1NTH4**
10⅞ in	7¼ in	1¾ in	Clear	24	Flambeau	**1NTH5**
11 in	7¼ in	1¾ in	Clear	20, 21, 24	Plano Molding	**K4978**
	7¼ in	2¾ in	Clear	9	Plano Molding	**437T95**
	8½ in	2¼ in	Clear	22	Plano Molding	**30F075**
13 in	18½ in	3 in	Gray	32, 40	Flambeau	**K4979**
14 in	9⅛ in	1⅜ in	Clear	36	Plano Molding	**36N216**
	9⅛ in	2¾ in	Clear	21	Plano Molding	**437T93**
	9¼ in	1⅞ in	Clear	28	Plano Molding	**30F072**
14⅛ in	9 in	2 in	Clear	35	Flambeau	**1NTH6**
15 in	11¼ in	2¼ in	Clear	17	Plano Molding	**36N217**
15½ in	12 in	5 in	Beige/Brown	9	Plano Molding	**19YM97**
Mechanical Closure						
14 in	15 in	2 in	Clear	8	Flambeau	**K4980**
	15 in	3½ in	Clear	6	Flambeau	**30C447**
15¼ in	14⅛ in	6¼ in	Clear	8	Flambeau	**30C451**
17¼ in	16¾ in	5 in	Clear	44, 47, 106	Flambeau	**K4981**
Snap Closure						
2½ in	11¾ in	15½ in	Gray	24	Flambeau	**2W786**
4⅛ in	7 in	1½ in	Clear	9	Flambeau	**3KN90**
6¼ in	3⅞ in	2 in	Clear	18, 20	Plano Molding	**K4982**
6¾ in	11 in	1¾ in	Clear	16	Flambeau	**3KN91**
8⅛ in	4⅞ in	2⅜ in	Clear	23	Plano Molding	**437U03**
9⅝ in	13½ in	2 in	Clear	20	Flambeau	**3KN88**
10⅞ in	7½ in	2¾ in	Clear	30	Plano Molding	**437T76**
11½ in	8½ in	2⅞ in	Clear/Black/ Yellow	10	STANLEY	**19YU42**
14 in	9 in	2¾ in	Clear	45	Plano Molding	**437T75**
14¾ in	11½ in	2¾ in	Clear/Black/ Yellow	14	STANLEY	**13U672**
15¾ in	11⅞ in	5⅜ in	Black	12	STANLEY	**48VE73**
16¾ in	13 in	3⅜ in	Black/Yellow	14	STANLEY	**39AL10**
17⅝ in	6⅝ in	2⅞ in	Black/Yellow	10	DeWalt	**420H34**
	11 in	2⅞ in	Black/Yellow	20	DeWalt	**420H33**

Fixed Compartment Boxes

Sturdy plastic boxes separate and store fasteners, fittings, connectors, and small parts keeping them dust and dirt free. Fixed dividers offer preset compartment sizes within the box.

Brass Bail—Provide extra-secure lid closure with brass ring latch.

Cam Action—Tight-sealing latches provide a waterproof seal to protect contents.

Double Latch and Latch—Secure locking latches on front of box.

Molded Tension—Integral molded latch keeps lid securely closed.

Snap—Push-to-close with snap shut latches.

Overall Length	Overall Width	Overall Height	Color	▶CHOOSE: No. of Compart.	Brand	Item No.
Brass Bail Closure						
12⅝ in	8⅞ in	4⅛ in	Beige/Green	20	Plano Molding	**19YM83**
13½ in	10⅛ in	4¼ in	Beige/Green	19	Plano Molding	**19YM84**
Cam Action Closure						
7⅜ in	4½ in	1¾ in	Clear	1	Plano Molding	**19YM87**
Double Latch Closure						
10⅜ in	13½ in	2¼ in	Black	9	Westward	**2HFR6**
13¼ in	16½ in	2⅛ in	Clear/Black/ Yellow	25	STANLEY	**3FRC4**
18½ in	13 in	3 in	Gray	24	Flambeau	**19YZ83**
Latch Closure						
1¾ in	10⅞ in	7¼ in	Clear	6	Plano Molding	**45MY70**
9 in	7 in	2 in	Clear	1	Plano Molding	**437T90**
9¾ in	16½ in	3¼ in	Clear	1	Flambeau	**30C443**
10⅞ in	7¼ in	1¾ in	Clear	13	Plano Molding	**437T86**
13 in	18½ in	3 in	Gray	21	Flambeau	**4TJ27**
14 in	9 in	1⅞ in	Clear	39	Plano Molding	**437T84**
	9¼ in	1⅞ in	Clear	13	Plano Molding	**437T87**
	15 in	3½ in	Clear	1	Flambeau	**5MU43**
Molded Tension Closure						
3¾ in	12 in	3¾ in	Green	18	Plano Molding	**36N222**
4⅝ in	2⅞ in	1 in	Clear	4	Plano Molding	**36N212**
	2⅞ in	1 in	Clear	6	Plano Molding	**437U04**
6½ in	3¾ in	1⅛ in	Clear	5, 7, 8	Plano Molding	**K4960**
8¼ in	4¼ in	1⅜ in	Clear	6	Plano Molding	**36N214**
Snap Closure						
2⅝ in	4⅝ in	1¼ in	Clear	4, 6	Flambeau	**K4961**
3½ in	5⅞ in	1⅜ in	Clear	5	Flambeau	**30C405**
	7 in	1⅜ in	Clear	5, 9, 12	Flambeau	**K4962**
4¼ in	7¼ in	1⅜ in	Clear	11, 17	Flambeau	**K4963**
4⅜ in	8¼ in	1⅜ in	Clear	6, 12, 18	Flambeau	**K4964**
6¼ in	12¼ in	1¾ in	Clear	6, 24	Flambeau	**K4968**
6½ in	10¾ in	1¾ in	Clear	6, 12, 13, 18	Flambeau	**K4965**
	10¾ in	1⅞ in	Clear	12, 18	Flambeau	**K4967**
	10¾ in	2½ in	Clear	6	Flambeau	**30C416**
6¾ in	10⅞ in	1¾ in	Clear	6, 12, 13, 18	Durham Mfg	**K4966**
8¾ in	13 in	2⅜ in	Clear	6, 24	Flambeau	**K4969**
	13 in	2⅞ in	Clear	6, 12, 24	Flambeau	**K4970**
9 in	13⅛ in	2⅜ in	Clear	6, 12, 16, 18, 24	Durham Mfg	**K4971**
11½ in	14¼ in	2¼ in	Clear	24	Plano Molding	**30F079**
12¾ in	8½ in	2⅛ in	Yellow	12, 24	Flambeau	**K4972**

25 Compartments 3FRC4

24 Compartments K4970

12 Compartments K4971

Small Parts Storage Systems

30F061

437T77

19YZ99

Removable drawers and boxes offer flexibility and easy access for organizing and storing small items.

437T79 and 437T77 have enclosed storage space beneath the lid and a DuraView front cover for visibility to lower box contents. Include four removable StowAway utility boxes.

30F061 is a molded plastic cabinet with 3 large and 2 small pull-out trays. Clear door closes to keep trays in place.

19YZ99 and **4TJ28** are black polypropylene cabinets that hold 5 translucent drawers with dividers. Drawers slide easily in and out of cabinet. 19YZ99 has handles on drawers.

437T74 has enclosed storage space beneath the lid and molded-in storage compartments on the top for frequently used items. Includes four lower removable StowAway utility boxes with ProLatch closures. Clear DuraView front cover allows visibility to lower box contents.

3KN86 features a handy yellow polypropylene toolbox on top with no-spill latches, and a built-in handle. Includes (2) 3KN88 lower removable compartment boxes with built-in handles.

Overall Length	Overall Width	Overall Height	Color	No. of Compart.	Number of Adjustable Dividers	Closure Type	Brand	Item No.
11 in	7 in	10 in	Red/Silver	36	10	Snap Clip	Plano Molding	**437T79**
12 in	16 in	10 in	Red	5	60	Molded	Plano Molding	**30F061**
13⅜ in	10 in	13¾ in	Blue/Silver	84	10	Snap Clip	Plano Molding	**437T77**
14¾ in	15¼ in	16 in	Black/Clear	4	16	Mechanical	Flambeau	**19YZ99**
	15¼ in	16 in	Black/Clear	5	16	Mechanical	Flambeau	**4TJ28**
16½ in	12 in	12 in	Gray/Tan	112	10	Snap Clip	Plano Molding	**437T74**
18 in	18½ in	11¾ in	Yellow	1	0	Mechanical	Flambeau	**3KN86**

** Features black handles on front of drawers.*

Four-Wall Unassembled

Three-Wall Unassembled

Two-Wall Unassembled

Four-Wall Assembled

PORTA-KING BUILDING SYSTEMS

Modular In-Plant Offices

- Include wall panels, connecting posts, framing, and hardware
- Heavy-duty swing door with large vision lite
- Panels have Class A fire rating

Provide enclosed work areas inside warehouses, manufacturing plants, office buildings, and other large commercial and industrial facilities. Can be moved or reconfigured as floor plans change.

Note: PE-stamped drawings are not included; call 1-800-GRAINGER (472-4643). Before purchasing, consult your local building department for applicable code requirements. Consult an electrician for all electrical installations.

UNASSEMBLED

Easy to assemble and can be modified at any time. 2- and 3-wall units are designed to attach to existing walls; 4-wall units are freestanding. Outlets/switches include boxes and devices to install as needed in connecting posts; no wire included. Steel/Vinyl covered panels have steel facing on the exterior and vinyl facing on the interior. Vinyl covered panels feature vinyl facing on both sides.

Please choose: White, Gray

ASSEMBLED

Freestanding 4-wall units can be installed anywhere in large commercial or industrial facilities. Offices ship assembled and are prewired for easy set up. Can be lifted with a forklift or crane to position them in the facility.

ALL OFFICES INCLUDE:

- All wall panels, connecting posts, framing, and hardware
- Heavy-duty swing door with large vision lite that aesthetically matches posts, wall panels, and framing
- Panels have a Class A fire rating
- Outlets/switches include boxes and devices; install as needed in connecting posts; no wire included

Note: PE-stamped drawings are not included; call 1-800-GRAINGER (472-4643). Before purchasing, consult your local building department for applicable code requirements. Consult an electrician for all electrical installations.

Four-Wall Assembled w/HVAC Unit 3EPP1

D	W	H	Lights	UNASSEMBLED 4-WALL Outlets	UNASSEMBLED 4-WALL Item No.	UNASSEMBLED 3-WALL Outlets	UNASSEMBLED 3-WALL Item No.	UNASSEMBLED 2-WALL Outlets	UNASSEMBLED 2-WALL Item No.
Steel/Vinyl Covered Drywall Panels, STC 25									
8 ft	8 ft	8 ft	1	2	**D5454**	2	**D5472**	2	**D5489**
	10 ft	8 ft	1	2	**D5455**	2	**D5473**	2	**D5491**
	12 ft	8 ft	1	2	**D5456**	2	**D5474**	2	**D5492**
10 ft	10 ft	8 ft	1	2	**D5457**	2	**D5475**	2	**D5493**
	12 ft	8 ft	2	2	**D5458**	2	**D5476**	2	**D5494**
	20 ft	8 ft	2		—	4	**H7580**	2	**H7574**
12 ft	12 ft	8 ft	2	4	**D5459**	4	**D5477**	4	**D5495**
	16 ft	8 ft	2	4	**D5461**	4	**D5478**	4	**D5496**
	28 ft	8 ft	3		—	7	**H7593**	4	**H7584**
	32 ft	8 ft	3	12	**H7616**	8	**H7597**	4	**H7587**
16 ft	16 ft	8 ft	2	4	**D5462**	4	**D5479**	4	**D5497**
	20 ft	8 ft	3	8	**H7606**	6	**H7598**	4	**H7585**
	32 ft	8 ft	4		—	8	**H7613**	6	**H7604**
20 ft	20 ft	8 ft	4	10	**H7615**	8	**H7605**	5	**H7594**
	24 ft	8 ft	4	10	**H7618**	8	**H7610**	6	**H7600**
	32 ft	8 ft	5	12	**H7624**	9	**H7619**	7	**H7611**
	40 ft	8 ft	6	14	**H7625**	10	**H7623**	8	**H7620**
Vinyl Covered Drywall Panels, STC 33									
8 ft	8 ft	8 ft	1	2	**D5463**	2	**D5481**	2	**D5498**
	10 ft	8 ft	1	2	**D5464**	2	**D5482**	2	**D5499**
	12 ft	8 ft	1	2	**D5465**	2	**D5483**	2	**D5501**
10 ft	10 ft	8 ft	1	2	**D5466**	2	**D5484**	2	**D5502**
	12 ft	8 ft	2	2	**D5467**	2	**D5485**	2	**D5503**
	20 ft	8 ft	2	6	**H7578**	4	**H7573**	2	**H7572**
12 ft	12 ft	8 ft	2	4	**D5468**	4	**D5486**	4	**D5504**
	16 ft	8 ft	2	4	**D5469**	4	**D5487**	4	**D5505**
	28 ft	8 ft	3	10	**H7589**	7	**H7579**	4	**H7575**
	32 ft	8 ft	3		—	8	**H7581**	4	**H7577**
16 ft	16 ft	8 ft	2	4	**D5471**	4	**D5488**	4	**D5506**
	20 ft	8 ft	3	8	**H7588**	6	**H7583**	4	**H7576**
	32 ft	8 ft	4	12	**H7607**	8	**H7601**	6	**H7591**
20 ft	20 ft	8 ft	4	10	**H7599**	8	**H7590**	5	**H7582**
	24 ft	8 ft	4	10	**H7603**	8	**H7595**	6	**H7586**
	32 ft	8 ft	5	12	**H7614**	9	**H7608**	7	**H7602**
	40 ft	8 ft	6		—	10	**H7617**	8	**H7612**

Description	▶CHOOSE: Color	Item No.
Accessories		
Pre-Installed - Must be ordered at the same time as the panels		
Optional Window	White, Gray	**G4894**
Extra Door Assembly	White, Gray	**G4895**
Modular Electric Kit, Pre-Wired, 8W x 8 inH	—	**3NYE6**
Modular Electric Kit, Pre-Wired, 8W x 10 inH	—	**3NYE7**
Modular Electric Kit, Pre-Wired, 8W x 12 inH	—	**3NYE8**
Modular Electric Kit, Pre-Wired, 10W x 10 inH	—	**3NYE9**
Modular Electric Kit, Pre-Wired, 10W x 12 inH	—	**3NYF1**
Modular Electric Kit, Pre-Wired, 12W x 12 inH	—	**3NYF2**
Modular Electric Kit, Pre-Wired, 12W x 16 inH	—	**3NYF3**
Modular Electric Kit, Pre-Wired, 16W x 16 inH	—	**3NYF4**
A/C Cutout and Frame	White, Gray	**G4898**
Add-On - Can be ordered separately and added to an existing office		
Extra Light Fixture, Prewired	White	**3NYE5**
Extra Light Fixture, No-Wire	White	**3NYX9**
Standard Duplex Outlet, No-Wire, 115 V AC	White, Gray	**G4896**
Modular Duplex Outlet, Pre-Wired, 115 V AC	White, Gray	**G4897**

D	W	H	Includes	Lights	ASSEMBLED 4-WALL Outlets	ASSEMBLED 4-WALL Item No.
Aluminum/Vinyl Covered Drywall Panels, STC 25						
8 ft	8 ft	8 ½ ft	Door	1	2	**3EPN8**
	8 ft	8 ½ ft	Windows, Door	1	2	**3EPN9**
	8 ft	8 ½ ft	Door, Windows, HVAC Unit	1	2	**3EPP1**
	10 ft	8 ½ ft	Door	1	2	**3EPP2**
	10 ft	8 ½ ft	Windows, Door	1	2	**3EPP3**
	10 ft	8 ½ ft	Door, Windows, HVAC Unit	1	2	**3EPP4**
	12 ft	8 ½ ft	Door	1	3	**3EPP5**
	12 ft	8 ½ ft	Windows, Door	1	3	**3EPP6**
	12 ft	8 ½ ft	Door, Windows, HVAC Unit	1	3	**3EPP7**

Assembled Guard Buildings

Provide shelter and weather protection for security personnel or parking attendants who monitor access to the grounds of a facility. Buildings install on top of an existing concrete pad on the grounds of corporate campuses, government facilities, resorts, stadiums, and other secure areas. Buildings ship to site fully assembled and ready for immediate use. All units include a sliding door with window and hook bolt deadlock, a steel counter, one 115V and one 230V outlet, 12-circuit breaker box, and a fluorescent light fixture (except 3CHN5 and 3CHN6 have 2 fixtures).

Aluminum models have fully insulated R-10 walls and ceiling with a corrosion-resistant aluminum exterior.

Ballistic-rated steel models provide a bullet-resistant shelter for high-security settings such as government and military facilities. Feature ballistic-rated windows, doors, and exterior walls that are fully sheathed in ballistic-rated steel from the floor grade to the roof line. Fully insulated R-10 walls and R-19 ceiling with a white exterior. Conform to standards for UL752 Level 3 ballistic protection.

Overall Exterior WxDxH	Overall Interior WxDxH	Door Opening Width	No. of Windows	HVAC UNIT NOT INCLUDED Item No.	HVAC UNIT INCLUDED Item No.
Aluminum					
6 ft x 4 ft x 8 ft	5.9 ft x 3.6 ft x 7.5 ft	32 in	3	**3CHL8**	**3CHL9**
8 ft x 6 ft x 8 ft	7.6 ft x 5.9 ft x 7.5 ft	35 in	4	**3CHN1**	**3CHN2**
8 ft x 8 ft x 8 ft	7.6 ft x 7.6 ft x 7.5 ft	35 in	6	**3CHN3**	**3CHN4**
10 ft x 8 ft x 8 ft	9.6 ft x 7.6 ft x 7.5 ft	32 in	6	**3CHN5**	**3CHN6**
Ballistic-Rated Steel, Level 3					
6 ft x 4 ft x 8 ft	5.6 ft x 3.6 ft x 7.2 ft	29 in	5	**10F335**	**10F336**
8 ft x 4 ft x 8 ft	7.6 ft x 3.6 ft x 7.2 ft	29 in	7	**10F337**	**10F338**
8 ft x 6 ft x 8 ft	7.6 ft x 5.6 ft x 7.2 ft	29 in	9	**10F339**	**10F340**
8 ft x 8 ft x 8 ft	7.6 ft x 7.6 ft x 7.2 ft	29 in	11	**10F341**	**10F342**

4 Sliding Windows w/HVAC Unit 3CHN2

Note: Dimensions listed do not include HVAC unit dimensions. Call 1-800-GRAINGER (472-4643) for additional dimensions.

Mezzanine Platforms

- Capacity: 125 lb./sq.-ft. uniform load
- Gray polyurethane acrylic enamel finish

Platforms bolt together with compatible landings, stair units, and guardrails to create an extra vertical level in a facility and gain additional floor space for work or storage. Connecting hardware has been welded onto the platforms' structural beams and columns by the manufacturer. Commonly used for parts storage, work platforms, archive storage, or crossover platforms in warehouses and other large facilities.

Standard deck is ¾" OSB and is suitable for office and storage applications in light- to moderate-traffic areas where heavy equipment will not be traveling on the platforms.

Heavy Traffic deck is ¾" high-density fiberboard and offers extra durability and abrasion resistance. Suitable for high-traffic storage and work applications where pallet jacks and other heavy equipment will be frequently traveling on the platforms.

ACCESSORIES

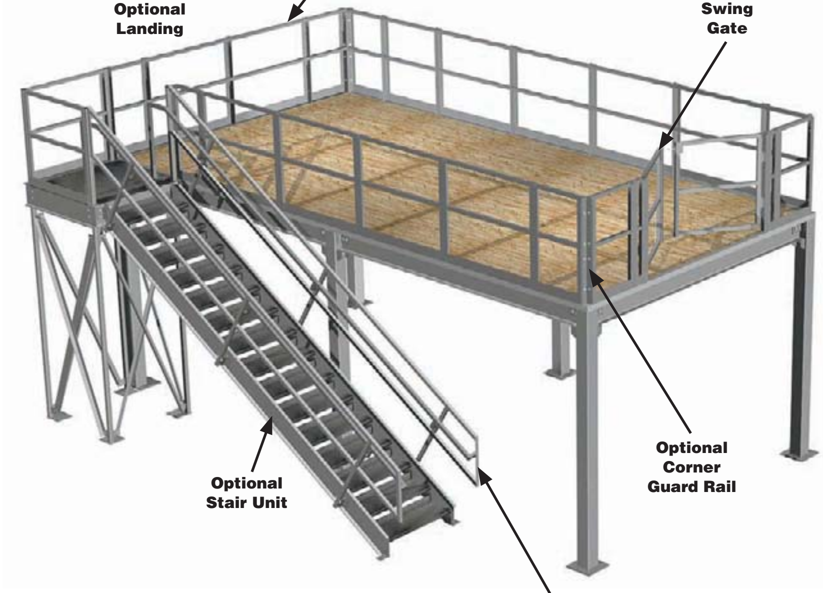
Guardrail—Welded 1-pc. design with kick plate. Can be easily secured to mezzanine deck surface.

Corner Guardrail—Welded 2-pc. design with kick plate.

Swing Gate—Allows for easy relocation within the guardrail system. Includes latch.

Mezzanine Stair Unit (Without Landing)—Stairs are fully welded with closed risers and nonskid treads. Welded, 1-pc. unit has 34" high fully-welded handrail and 42" high guardrail. Meets IBC.

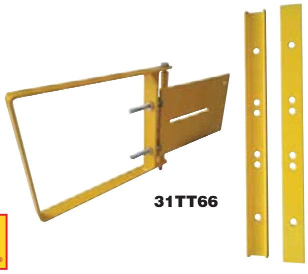
Mezzanine Landing—Freestanding unit can be installed anywhere on the mezzanine and easily moved to another location. Features steel diamond plate finished floor. Includes a guardrail on 2 sides and vertical corner posts that can accept either left- or right-handed stair placement.



Overall WxDxH	Platform Area	Ground Clearance Height	STANDARD DECK Item No.	HEAVY-TRAFFIC DECK Item No.
Platform Mezzanines				
8 ft x 8 ft x 9 ft	64 sq ft	99 ⅞ in	**3NYH3**	**10F343**
8 ft x 12 ft x 9 ft	96 sq ft	99 ⅞ in	**3NYG8**	**10F344**
8 ft x 16 ft x 9 ft	128 sq ft	97 ⅞ in	**3NYG9**	**10F345**
8 ft x 20 ft x 9 ft	160 sq ft	95 ⅞ in	**3NYH1**	**10F346**
8 ft x 24 ft x 9 ft	192 sq ft	99 ⅞ in	**3NYH2**	**10F347**
12 ft x 12 ft x 9 ft	144 sq ft	99 ⅞ in	**3NYF8**	**10F348**
12 ft x 16 ft x 9 ft	192 sq ft	97 ⅞ in	**3NYF9**	**10F349**
12 ft x 20 ft x 9 ft	240 sq ft	95 ⅞ in	**3NYG1**	**10F350**
12 ft x 24 ft x 9 ft	288 sq ft	99 ⅞ in	**3NYG2**	**10F351**
16 ft x 16 ft x 9 ft	256 sq ft	95 ⅞ in	**3NYG3**	**10F352**
16 ft x 20 ft x 9 ft	320 sq ft	95 ¾ in	**3NYG4**	**10F353**
16 ft x 24 ft x 9 ft	384 sq ft	97 ⅞ in	**3NYG5**	**10F354**
20 ft x 20 ft x 9 ft	400 sq ft	93 ⅞ in	**3NYG6**	**10F355**
20 ft x 24 ft x 9 ft	480 sq ft	95 ⅞ in	**3NYG7**	**10F356**

Description	Overall Length	Overall Height	Item No.
Accessories			
Guardrail	48 in	42 in	**3NYH9**
Corner Guardrail	24 in	42 in	**3NYH5**
Swing Gate	—	42 in	**3NYH6**
Mezzanine Stair Unit	117 11⁄16 in	144 in	**3NYH8**
Mezzanine Landing	48 in	152 in	**3NYH4**

Adjustable Opening	GALVANIZED STEEL Item No.	YELLOW POWDER COATED Item No.
Standard Size, 12" Vertical Coverage		
17 in to 18½ in	31TT42	31TT66
19 in to 21½ in	31TT43	31TT67
22 in to 24½ in	31TT44	31TT68
25 in to 27½ in	31TT45	31TT69
28 in to 30½ in	31TT46	31TT70
31 in to 33½ in	31TT47	31TT71
34 in to 36½ in	31TT48	31TT72
37 in to 39½ in	31TT49	31TT73
Extended 22" Vertical Coverage		
17 in to 18½ in	31TT58	31TT50
19 in to 21½ in	31TT59	31TT51
22 in to 24½ in	31TT60	31TT52
25 in to 27½ in	31TT61	31TT53
28 in to 30½ in	31TT62	31TT54
31 in to 33½ in	31TT63	31TT55
34 in to 36½ in	31TT64	31TT56
37 in to 39½ in	31TT65	31TT57


31TT66

31TT58

Condor

Self-Closing, Adjustable Safety Swing Gates

- Right- or left-swing

Easy-to-install adjustable gate will fit in a variety of different-sized openings. Auto-close with positive stops. Include mounting hardware.

PS DOORS

Adjustable Ladder Safety Gates

- Right- or left-swing

Self-closing swing gate provides 42" top- and mid-rail protection and minimizes the chances of a fall on elevated platforms, mezzanines or ladder ways. OSHA compliant.

Adjustable Opening	YELLOW POWDER COATED Item No.	GALVANIZED Item No.	304 STAINLESS STEEL Item No.
13¾ in to 17½ in	39L626	39L640	39L654
16¾ in to 20½ in	39L627	39L641	39L655
19¾ in to 23½ in	39L628	39L642	39L656
22¾ in to 26½ in	39L629	39L643	39L657
25¾ in to 29½ in	39L630	39L644	39L658
28¾ in to 32½ in	39L631	39L645	39L659
31¾ in to 35½ in	39L632	39L646	39L660
34¾ in to 38½ in	39L633	39L647	39L661
38¾ in to 42½ in	39L634	39L648	39L662
42¾ in to 46½ in	39L635	39L649	39L663
46¾ in to 50½ in	39L636	39L650	39L664

39L626

39L654

39L640

Self-Closing, Adjustable Safety Swing Gates

Cotterman®

- Width is adjustable in 2" increments
- Universal design for either right- or left-swing
- Friction-reducing bushings eliminate metal-to-metal contact
- Tested to 1,000,000 cycles without spring or hinge failure
- 2-part powder-coated finish,
- zinc-rich primer with UV-resistant polyester top coat

Help facilities meet OSHA and ANSI requirements for mandatory guarding of platform railing system openings. Include hardware for easy installation with no drilling, welding, or cutting. Stainless steel spring won't rust or corrode.

Adjustable Opening	POWDER COATED GRAY STEEL Item No.	POWDER COATED YELLOW STEEL Item No.	STAINLESS STEEL Item No.	GALVANIZED STEEL Item No.
16 in to 26 in	489H94	489H96	489H98	489J01
24 in to 40 in	489H95	489H97	489H99	489J02

Powder Coated Gray Steel 489H94

Yellow Powder Coated Steel 489H96

Universal Swing Gate

YellowGate®

- Width is adjustable in unlimited increments
- Universal design for either right- or left-swing
- Malbec tensioner for easy adjustment in the field
- Aluminum construction

Mount in just minutes with simple hand tools; no cutting, welding, or drilling required. Attach to walls, square and round tubing, or angle iron in either parallel or perpendicular mountings.

Adjustable Opening	Finish	Color	Item No.
16 in to 36 in	Powder Coated	Yellow	22M481

Gable Roof Shed 32XT06

Cabinet Style Shed 2ERW6

Plastic Outdoor Storage Sheds

- All units are lockable; 32XT06 includes a lock

Protect tools and equipment from sun exposure and weather. Keep stored items organized and close to where they're used to free up indoor storage areas. Plastic construction will not rust or dent. All sheds have hinged double doors.

Gable Roof shed comes to a peak allowing snow and rain to run off. Provides extra storage capacity and headroom for storing large items such as ladders and lawnmowers.

Cabinet-Style units feature a flat roof and have a compact footprint. Vertical shed is suitable for storing tall items like rakes or brooms, and horizontal sheds are suitable for storing shorter items like pool equipment or garbage bins.

Storage Cap.	Overall Exterior WxDxH	Inside WxDxH	Door Opening HxW	Material	Shed Color	Brand	Item No.
Gable Roof							
547 cu ft	8 ft x 10 ft x 9 ft	7 ¾ ft x 9 ¾ ft x 8 ⅜ ft	72 in x 60 in	Resin	Vanilla	Suncast	**32XT06**
Cabinet-Style							
Vertical							
17 cu ft	—	26 in x 19 in x 67 in	68 in x 26 in	Polypropylene	Green/Tan	Rubbermaid	**2ERW6**
Horizontal							
18 cu ft	—	47 in x 21 in x 29 in	32 in x 51 in	Polypropylene	Green/Tan	Rubbermaid	**2ERW8**
32 cu ft	—	47 in x 21 in x 42 in	45 in x 56 in	Polypropylene		Rubbermaid	**2ERW7**
70 cu ft	—	65 ½ in x 38 ½ in x 49 ½ in	46 ½ in x 63 ½ in	Steel-Reinforced Resin	Beige/Gray	Suncast	**32XT03**

Single-Slope, Beige D7717

Gable Roof, Green D7721

Forkliftable w/ Flat Roof 2RMZ1

Steel Sheds

Strong, waterproof corrugated steel sheds are heavier and more durable than plastic sheds. Include hinged doors with locking latches. D7717, D7718, and D7721 have single doors; D7719, D7722 and D7723 have 2 doors.

Single-slope roof sheds have a compact footprint and allow rain and snow to run off.

Gable roof sheds provide extra storage capacity and headroom for large items like ladders and lawnmowers.

Forkliftable with flat roof sheds can be moved with a forklift after they are assembled, making them ideal for facilities with frequently changing storage needs. Use for large equipment in outdoor areas such as construction sites, military facilities, and maintenance operations. Include single swing-out door, built-in rain gutters, and a wooden floor to keep the shed's contents clean and dry.

Storage Cap.	Overall Exterior WxDxH	Inside WxDxH	Door Opening HxW	Color	Item No.
Single-Slope Roof					
175 cu ft	6 ft x 6 ft x 6 ft	5 ⅝ ft x 5 ⅝ ft x 6 ¼ ft	73 in x 33 in	Beige, Brown, Green	**D7717**
258 cu ft	9 ft x 6 ft x 6 ft	8 ⅜ ft x 5 ⅝ ft x 6 ¼ ft	73 in x 33 in	Beige, Brown	**D7718**
342 cu ft	11 ft x 6 ft x 6 ft	11 ¼ ft x 5 ⅝ ft x 6 ¼ ft	73 in x 65 in	Beige, Brown, Green	**D7719**
345 cu ft	8 ft x 8 ft x 8 ft	8 ⅜ ft x 5 ¾ ft x 7 ¼ ft	87 in x 96 in	Beige	**49P399**
Gable Roof					
248 cu ft	9 ft x 6 ft x 7 ft	8 ⅜ ft x 5 ⅝ ft x 6 ⅞ ft	69 in x 33 in	Beige, Brown	**D7721**
492 cu ft	11 ft x 9 ft x 7 ft	11 ¼ ft x 8 ⅜ ft x 6 ⅞ ft	69 in x 66 in	Beige, Brown, Green	**D7722**
653 cu ft	11 ft x 11 ft x 7 ft	11 ¼ ft x 11 ¼ ft x 6 ⅞ ft	69 in x 66 in		**D7723**
Forkliftable with Flat Roof					
409.6 cu ft	9 ft x 6 ft x 7 ft	8 ⅞ ft x 5 ¾ ft x 6 ½ ft	74 in x 45 in	Gray	**2RMZ1**
821.2 cu ft	9 ft x 13 ft x 7 ft	8 ⅞ ft x 12 ⅜ ft x 6 ½ ft	74 in x 45 in		**2RMZ2**

PORTA-KING BUILDING SYSTEMS

Outdoor Equipment Enclosures

- Include (4) interior anchor tabs and (4) permanent lifting lugs
- Lockable enclosures; lock included
- Plywood interior units have 2½" thick walls; all other units have 2" thick walls

Welded steel enclosures house pumps, transformers, switchgears, and other large machinery to protect them from vandalism, theft, weather, and outdoor elements. Sloped A-shaped roof allows snow and rain to run off. Single hinged swing door. Ship fully assembled and ready for use.

Storage Cap.	Overall Exterior WxDxH	Item No.	Insulated Walls Item No.	Plywood Interior Item No.
512 cu ft	8 ft x 8 ft x 9 ft	**31TT98**	**31TT99**	**31TU01**
640 cu ft	8 ft x 10 ft x 9 ft	**31TU02**	**31TU03**	**31TU04**
770 cu ft	8 ft x 12 ft x 9 ft	**31TU05**	**31TU06**	**31TU07**

31TT98

3-Wall Back-to-Wall Shelter 6UGA5

3-Wall Open-Front Shelter 49P402

No Butts Bin Co. PORTA-KING BUILDING SYSTEMS

Outdoor Shelters

Provide covered areas where people can smoke or wait for transit while protected from sun exposure and bad weather. Porta-King shelters have clear safety glass side panels; No Butts Bin Co. shelters have clear acrylic side panels.

3-Wall Open Front shelters have a back wall, 2 side walls, and a roof.

3-Wall Back-to-Wall shelters are installed against the existing wall of a building.They have 2 side walls, a front wall with an opening, and a roof.

4-Wall shelters are freestanding. The front wall has an opening to enter/exit the shelter.

4-Wall Unassembled Shelter 6UFZ9

Overall Exterior WxDxH	Inside WxDxH	Includes Seating	Color	Finish	Brand	Item No.
Unassembled						
3-Wall Open-Front — Steel						
46 in x 77 in x 84 in	73 in x 42 in x 82 in	No	Clear	Polyethylene, Powder-Coated	—	**49P403**
75 in x 49 in x 84 in	69.8 in x 37.5 in x 77.6 in	Yes	Silver	Powder Coated	—	**9PLM9**
96 in x 100 in x 91 in	96.4 in x 92 in x 87 in	No	Beige	Polyethylene, Powder-Coated	—	**49P402**
3-Wall Back-To-Wall — Aluminum						
84 in x 42 in x 95 in	81 in x 39 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA5**
124 in x 42 in x 95 in	125 in x 39 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA6**
124 in x 84 in x 95 in	125 in x 81 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA9**
4-Wall — Aluminum						
84 in x 84 in x 95 in	81 in x 81 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA1**
124 in x 42 in x 95 in	125 in x 39 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UFZ9**
124 in x 84 in x 95 in	125 in x 81 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA2**
206 in x 84 in x 95 in	203 in x 81 in x 79 in	Yes	Black	Powder Coated	No Butts Bin Co.	**6UGA4**
Assembled						
4-Wall — Steel						
60 in x 96 in x 94 in	86 in x 56 in x 86 in	No	Brown	Acrylic Enamel	Porta-King	**3CHN7**
		Yes	Brown	Acrylic Enamel	Porta-King	**3CHN8**
		Yes	Brown	Acrylic Enamel	Porta-King	**3EPN1** *
72 in x 120 in x 94 in	86 in x 68 in x 86 in	No	Brown	Acrylic Enamel	Porta-King	**3EPN2**
96 in x 144 in x 94 in	86 in x 92 in x 86 in	No	Brown	Acrylic Enamel	Porta-King	**3EPN5**
		Yes	Brown	Acrylic Enamel	Porta-King	**3EPN6**

** Includes lighting and an exhaust fan.*

4-Wall Assembled Shelter 3EPN1

80/20® Inc.
The Industrial Erector Set®

Profiles for T-Slot Framing

T-slot profiles can be machined to size and combined to build carts, shelving, displays, barriers, workstations, machine guards, enclosures, and other structures without requiring welding. Structures can be expanded or reconfigured as a facility's needs change. Aluminum profiles have recessed T-slots that accept compatible connectors and fasteners that can be moved anywhere along the slots for precise positioning. The connectors join profiles to create a frame for the structures, while the fasteners allow hinges, panels, handles, and other parts to be attached for customizing the structures. Aluminum extrusion alloy is lightweight, has a high strength-to-weight ratio, and a clear anodized matte finish which helps prevent oxidation and corrosion.

Lite and **Ultra-Lite** profiles have hollow corners making them more lightweight.

Black anodized finish profiles are a good choice for low reflective projects such as photo booths and military applications.

Single Profile

Double Profile

Triple Profile

Quad Profile

Relative Profile Weight	Extrusion Texture	Series	Rail HxW	Slot Width	Bore Diameter	4 ft L Item No.	6 ft L Item No.	8 ft L Item No.	12 ft L Item No.
Inch Single Profiles									
2 Adjacent-Sides Slots									
Standard	Grooved	10 Series	1 in x 1 in	0.3 in	13/64 in	—	—	—	**29NZ73**
		15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	—	—	**29NZ76**
2 Opposite-Sides Slots									
Standard	Grooved	10 Series	1 in x 1 in	0.3 in	13/64 in	—	—	—	**29NZ74**
		15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	—	—	**29NZ77**
4 Adjacent-Sides Slots									
Ultra-Lite	Grooved	15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	—	—	**29NZ75**
	Smooth	15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	**5JTA9**	—	**5JTC9**
Standard	Grooved	10 Series	1 in x 1 in	0.3 in	13/64 in	—	**2RCP8**	—	—
		10 Series	1 in x 1 in	0.3 in	13/64 in	—	**29NZ64** *	**2RCP9**	**29NZ63** *
		15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	**29NZ78**	**5JTA8**	**5JTC8**	**29NZ68** *
	Smooth	15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	**16U251**	—	**16U252**
Lite	Grooved	15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	**2RCR3**	**2RCR4**	**29NZ69** *
	Smooth	15 Series	1 ½ in x 1 ½ in	0.3 in	17/64 in	—	**5JTC0**	—	**5JTD0**
Inch Double Profiles									
6 Adjacent-Sides Slots									
Standard	Grooved	10 Series	2 in x 1 in	0.3 in	13/64 in	—	**29NZ66** *	**2RCR2**	**29NZ65** *
		10 Series	2 in x 1 in	0.3 in	13/64 in	—	**2RCR1**	—	—
		15 Series	3 in x 1 ½ in	0.3 in	17/64 in	**29NZ80**	**5JTC1**	**5JTD1**	**29NZ70** *
	Smooth	15 Series	3 in x 1 ½ in	0.3 in	17/64 in	—	**16U253**	—	**16U254**
Lite	Grooved	15 Series	3 in x 1 ½ in	0.3 in	17/64 in	—	**2RCR5**	**2RCR6**	**29NZ71** *
		15 Series	3 in x 1 ½ in	0.3 in	17/64 in	—	—	—	**29NZ82**
	Smooth	15 Series	3 in x 1 ½ in	0.3 in	17/64 in	—	**5JTC2**	—	**5JTD2**
Inch Triple Profiles									
8 Adjacent-Sides Slots									
Standard	Grooved	10 Series	3 in x 1 in	0.3 in	13/64 in	—	**5JTA6**	—	**5JTC6**
		15 Series	4 ½ in x 1 ½ in	0.3 in	17/64 in	—	**5JTC3**	—	**5JTD3**
Inch Quad Profiles									
Standard	Grooved	10 Series	2 in x 2 in	0.3 in	13/64 in	—	**5JTA7**	—	**29NZ67** *
		10 Series	2 in x 2 in	0.3 in	13/64 in	—	—	—	**5JTC7**
		15 Series	3 in x 3 in	0.3 in	17/64 in	—	**5JTC4**	—	**29NZ72** *
		15 Series	3 in x 3 in	0.3 in	17/64 in	—	—	—	**5JTD4**
Lite		15 Series	3 in x 3 in	0.3 in	17/64 in	—	—	—	**29NZ83**
	Smooth	15 Series	3 in x 3 in	0.3 in	17/64 in	—	**5JTC5**	—	**5JTD5**
12 Adjacent-Sides Slots									
Standard	Grooved	15 Series	6 in x 3 in	0.3 in	17/64 in	—	—	—	**29NZ84**

Relative Profile Weight	Extrusion Texture	Series	Slot Width	Bore Diameter	13 ft L Item No.	19 ¾ ft L Item No.
Metric Double Profiles						
2 Adjacent-Sides Slots						
Standard	Smooth	25 Series	6.5 mm	4.19 mm	**29NZ86**	—
Lite	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ94**	—
3 Adjacent-Sides Slots						
Lite	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ95**	—
4 Adjacent-Sides Slots						
Lite	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ96**	—
6 Adjacent-Sides Slots						
Standard	Smooth	20 Series	5.3 mm	4.19 mm	**16U249**	**16U250**
	Smooth	45 Series	10.1 mm	10 mm	**5JRY2**	**5JTA5**
	Smooth	25 Series	6.5 mm	5 mm	**5JRY4**	**5JRZ4**
	Smooth	30 Series	8.1 mm	6.65 mm	**5JRY9**	**5JRZ7**
	Smooth	40 Series	8.1 mm	6.81 mm	**5JRZ1**	**5JTA0**
Lite	Smooth	40 Series	8.1 mm	6.81 mm	**5JRY6**	**5JTA1**
Metric Quad Profiles						
8 Adjacent-Sides Slots						
Standard	Smooth	30 Series	8.1 mm	6.65 mm	**29NZ87**	—
	Smooth	45 Series	10.1 mm	10 mm	**29NZ99**	—
	Smooth	25 Series	6.5 mm	5 mm	**5JRY7**	**5JRZ5**
	Smooth	40 Series	8.1 mm	6.81 mm	**5JRZ2**	**5JTA2**
12 Adjacent-Sides Slots						
Standard	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ93**	—
	Smooth	25 Series	6.5 mm	5 mm	**29NZ85**	—
Metric Single Profiles						
1 Slots						
Standard	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ88**	—
2 Adjacent-Sides Slots						
Standard	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ89**	—
	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ91**	—
Lite	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ97**	—
3 Adjacent-Sides Slots						
Standard	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ90**	—
4 Adjacent-Sides Slots						
Ultra-Lite	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ98**	—
Standard	Smooth	30 Series	8.1 mm	6.65 mm	**5JRY8**	**5JRZ6**
	Smooth	25 Series	6.5 mm	5 mm	**5JRY3**	**5JRZ3**
	Smooth	40 Series	8.1 mm	6.81 mm	**5JRZ0**	**5JRZ8**
	Smooth	45 Series	10.1 mm	10 mm	**5JRY1**	**5JTA3**
	Smooth	20 Series	5.3 mm	4.19 mm	**16U247**	**16U248**
Lite	Smooth	45 Series	10.1 mm	10 mm	**5JRE5**	**5JTA4**
	Smooth	40 Series	8.1 mm	6.81 mm	**5JRY5**	**5JRZ9**
Metric Triple Profiles						
8 Adjacent-Sides Slots						
Standard	Smooth	40 Series	8.1 mm	6.81 mm	**29NZ92**	—

*** Black anodized finish.**

12-Hole 90° Angled Flat Joining Plate

Inside Corner Bracket

Universal Pivot Nub Assembly

L-Handle Linear Bearing Brake Kit

Base Plate

Deluxe Leveling Foot

Description	10 SERIES		15 SERIES		25 SERIES		30 SERIES		40 SERIES		45 SERIES	
	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Fasteners												
45° Corner Supports												
Rectangle profile	2RCV8	1	2RCW1	1	5JRG5	1	—		5JRG7	1	—	
Square profile	2RCV7	1	2RCV9	1	5JRG4	1	—		5JRG6	1	—	
Butt Hinges												
Aluminum, 4 Hole	5JRL8	1	5JRL9	1	5JRK6	1	—		5JRK7	1	—	
Plastic, 4 Hole	—		—		5JRK8	1	5JRK9	1	5JRL0	1	5JRL1	1
Flat Joining Plates												
90° Angled, 5 Hole	2RCX3	1	2RCX4	1	5JRP2	1	5JRT6	1	5JRR2	1	5JRR8	1
90° Angled, 12 Hole	2RCX5	1	2RCX6	1	5JRP0	1	—		5JRR0	1	—	
Rectangular, 8 Hole	2RCX1	1	2RCX2	1	5JRP3	1	—		5JRR3	1	—	
Straight, 4 Hole	2RCW8	1	2RCW9	1	5JRN8	1	—		5JRP9	1	—	
Tee, 12 Hole	5JRV2	1	5JRV3	1	5JRU4	1	—		5JRU5	1	—	
Tee, 5 Hole	2RCX7	1	2RCX8	1	5JRP1	1	5JRT7	1	5JRR1	1	5JRR6	1
Inside Corner Brackets												
2 Hole	2RCW6	1	2RCW7	1	5JRN9	1	5JRT2	1	5JRP7	1	5JRR9	1
4 Hole, Tall	2RCW4	1	2RCW5	1	5JRN7	1	5JRT3	1	5JRP6	1	5JRT1	1
4 Hole, Wide	5JRU8	1	5JRU9	1	5JRU6	1	—		5JRU7	1	—	
8 Hole	2RCW2	1	2RCW3	1	5JRN6	1	5JRT4	1	5JRP8	1	5JRT0	1
Inside Gusset Corner Brackets												
2 Hole	5JRV4	1	5JRV5	1	5JRT8	1	—		5JRT9	1	—	
4 Hole, Tall	5JRV6	1	5JRV7	1	5JRU0	1	—		5JRU1	1	—	
8 Hole	5JRV8	1	5JRV9	1	5JRU2	1	—		5JRU3	1	—	
Pivot Nub Assemblies												
0°, Dual Straight Arms	2RCY2	1	2RCY3	1	—		—		—		—	
Universal, Dual Straight Arms	2RCX9	1	2RCY1	1	—		—		—		—	
Standard Anchor Fastener Assemblys												
Zinc	2RCU3	1	2RCU4	1	5JRH1	1	5JRH8	1	5JRH3	1	—	
Standard End Fasteners												
Steel	2RCU1	1	2RCU2	1	5JRH0	1	—		5JRH2	1	—	
T-Nut and Screw Kits												
Base Plate Bolt Kit, Socket Head Cap Screw, Pkg. of 25	2RCT4	25	2RCT5	25	5JRG8	25	—		5JRG9	25	—	
Base Plate Bolt Kit, Socket Head Cap Screw and T-Nut	2RCU7	15	2RCU8	15	—		—		—		—	
Double T-Nut & (2) Flanged Button Head Socket Cap Screws	2RCT8	6	2RCT9	6	—		—		—		—	
Drop-In T-Nut & Button Head Socket Cap Screw	—		—		—		5JRJ0	6	—		5JRH7	6
Drop-In T-Nut & Flanged Button Head Socket Cap Screw	2RCU5	1	2RCU6	1	—		—		—		—	
Drop-In T-Nut & Socket Head Cap Screw	—		—		—		5JRH9	6	—		5AEZ4	15
Hinge Bolt Kit, T-Nut & Button Head Socket Cap Screw	—		—		5JRJ1	15	—		5JRJ2	15	—	
Hinge Bolt Kit, T-Nut & Flanged Button Head Socket Cap Screw	5JRJ9	15	5JRK0	15	—		—		—		—	
T-Nut & Button Head Socket Cap Screw	2UWP8	15	2RCU9	6	5JRH4	15	—		5JRH6	15	—	
T-Nut & Flanged Button Head Socket Cap Screw	2RCT6	15	2RCT7	15	—		—		—		—	
Finishing												
End Caps												
Rectangle, Single Width	—		2RCT1	2	—		—		—		—	
Rectangle, Single Width, Double Length	2RCR8	2	2RCR9	2	—		—		—		—	
Rectangle, Single Width, Triple Length	5JRG2	2	5JRG3	2	—		—		—		—	
Square, Double Width	5JRG0	2	5JRG1	2	5JRF4	2	—		5JRF5	2	—	
Square, Single Width	2RCR7	2	—		5JRE6	2	5JRF6	2	5JRE8	2	5JRF2	2
L-Brake Handles												
Nylon 66	2RCP2	1	—		—		—		—		—	
Nylon Plastic	—		—		5JRX2	1	—		—		—	
Zinc	—		2RCP3	1	—		—		5JRX3	1	—	
T-Slot Covers												
Black	2RCT2	1	2RCT3	1	5JRF0	1	5JRF9	1	5JRF1	1	5JRF8	1
Floor-to-Frame												
Base Plates												
1" x 2", ¼-20 Center Tap	2RCV1	1	—		—		—		—		—	
1" x 2", ⅜-16 Center Tap	2RCV2	1	—		—		—		—		—	
1.5" x 3", ⅜-16 Center Tap	—		2RCV3	1	—		—		—		—	
2" x 2", ⅜-16 Center Tap	5JRN3	1	—		—		—		—		—	
3" x 3", ½-13 Center Tap	—		5JRN5	1	—		—		—		—	
Flange Mount	5JRN1	1	5JRN2	1	—		—		—		—	
Deluxe Leveling Feet												
¼-20, 1000-lb. Capacity per Foot	2RCV5	1	—		—		—		—		—	
¼-20, 5,000 lb. Capacity per Foot	5JRN4	1	—		—		—		—		—	
⅜"-16, 3,750 lb. Capacity per Foot	2RCV4	1	—		—		—		—		—	
Swivel Casters w/Brake												
Bolt Kit, Socket Head Cap Screw	5JRK1	25	—		—		—		—		—	
Plate Caster, 300 lb. Capacity, Flange Mount	5JRN0	1	—		—		—		—		—	
Stem Caster, 70 lb. Capacity	2RCV6	1	—		—		—		—		—	

80/20® Inc.
The Industrial Erector Set®

Accessories for T-Slot Framing

For use in machine guards and enclosures, workstations, displays, carts, shelving, and more.

FASTENERS

Anchor Fasteners

Create strong, adjustable 90° connections.

Butt Hinges

Aluminum hinges have a clear iridite finish to match color of profiles. Use to mount lighter weight doors or two profiles side by side. Plastic hinges are black, fiberglass-reinforced nylon with stainless steel pin.

End Fasteners

Create concealed 90° connections between profiles.

Flat Joining Plates and Joining Plates

External fasteners ease connecting of profiles with no machining required.

Framing Extrusions

Provide a clean, flush connection and are typically used to reinforce a 90° connection.

Inside Corner Brackets

6105-T5 aluminum alloy with a clear anodized finish except for 30 Series 5JRT2, 5JRT3, and 5JRT4, which are die-cast aluminum with natural finish.

Pivot Nub Assemblies

Add axial motion to T-slot profiles: connect two same-series profiles in parallel configuration, allowing one profile 180° axial motion. 6105-T5 aluminum alloy.

Supports

6" supports made from T-slot profile add strength to 90° corners. Fasteners included.

T-Nut and Screw Kits

Fasteners to attach joining plates and brackets. Zinc-plated steel, except 2RCU9 is stainless steel.

FINISHING

End Caps

Black plastic caps for T-slot profile ends. Fasteners included.

L-Brake Handles

Ratcheting matte handle secures brake-ready linear slide bearing in a semipermanent position.

T-Slot Covers

Black cover snaps into profile slots to conceal wire and keep out dirt. Cut to size with scissors. 10 and 25 Series are PVC, the rest are polypropylene. 25 and 40 Series are 72½" long, and 30 and 45 Series are 78¾" long.

FLOOR-TO-FRAME

Base Plates

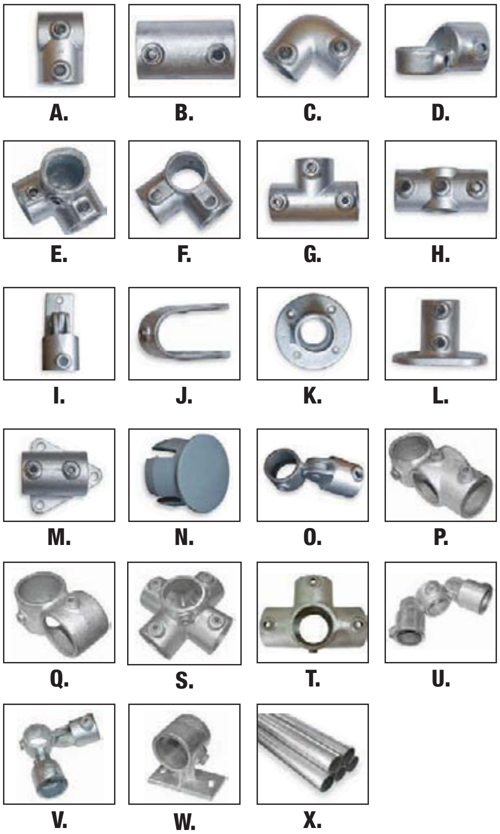
Threaded center hole in aluminum plate is used to mount leveling feet or casters. Bolt kits sold separately.

Deluxe Leveling Feet

Install in base plate or directly in the end of a tapped profile. Swivel up to 20° on uneven floors.

Swivel Casters with Brake

2RCV6 has ⅜-16 x 1.5" zinc-plated steel threaded stem with 2"-dia. rubber wheel. 5JRN0 has 4"-dia. polyurethane wheel.



Cast-Iron Pipe Fittings and Pipe

PIPE FITTINGS

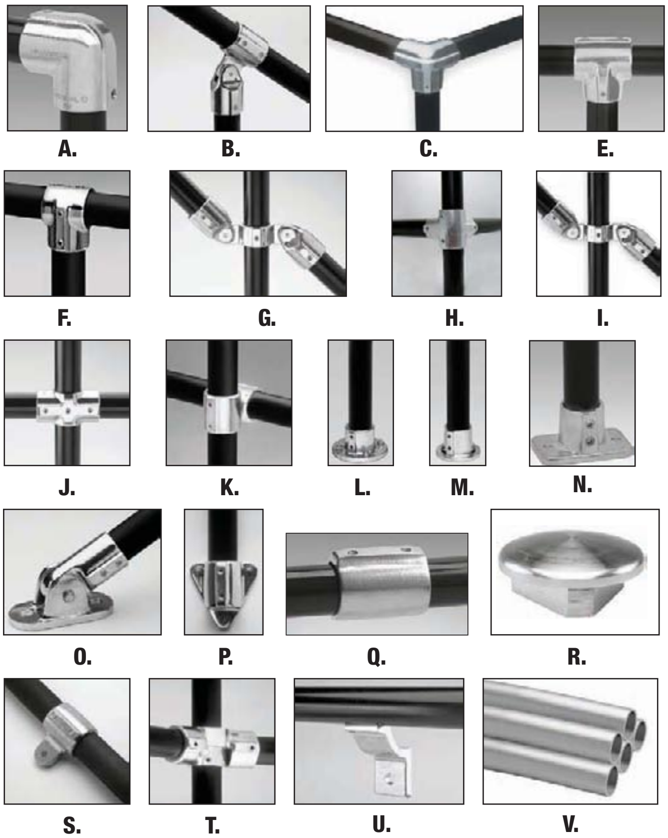
Galvanized iron pipe fittings have a tensile strength of no more than 50,000 lb. Manufactured per international standards for durability and corrosion resistance. Feature quality set screws with antirust coating. Fittings build with no welding required; pipe cutters and a standard hex tool are usually the only tools needed. Constructed to ASTM Standards.

PIPE

Pipe is welded and hot-dipped galvanized for corrosion resistance. Tensile strength of 30,000 lb. Constructed to ASTM Standards.

For Pipe Size	For Actual Pipe Outer Dia.
¾ in	1 in
1 in	1 ⅜ in
1 ¼ in	1 ⅝ in
1 ½ in	1 ⅞ in
2 in	2 ⅜ in

Key	Product Type	FOR PIPE SIZE ¾" Item No.	1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Structural Pipe Fittings						
A	Single-Socket Tee	30LW89	4NXP5	4NXT2	4NXU8	30LW90
B	Straight Coupling	—	—	4NXT3	4NXU9	30LW92
C	Elbow	30LW93	4NXP7	—	4NXV1	30LW94
D	Adjustable Side-Outlet Tee	—	—	4NXT5	4NXV2	30LW96
E	Side-Outlet Elbow	30LW97	4NXP9	4NXT6	4NXV3	30LW98
F	Side-Outlet Tee	30LW99	4NXR1	4NXT7	4NXV4	30LX01
G	Three-Socket Tee	30LX02	4NXR2	4NXT8	4NXV5	30LX03
H	Slip-On Cross	—	4NXR3	4NXT9	4NXV6	30LX05
I	Swivel Flange	30LX06	4NXR4	4NXU1	4NXV7	30LX07
J	Clamp-On Crossover	—	4NXR5	—	4NXV8	30LX09
K	Base Flange	30LX10	4NXR6	4NXU3	4NXV9	30LX11
L	Railing Base Flange	30LX12	4NXR7	4NXU4	4NXW1	30LX13
M	Wall Flange	—	4NXR8	4NXU5	4NXW2	—
N	Slip-On Plug	—	4NXR9	4NXU6	4NXW3	30LX17
O	Single-Swivel Socket	30LX18	4NXT1	4NXU7	4NXW4	30LX19
P	Combination Socket Tee and Crossover	30LX20	30LX21	—	—	30LX24
Q	Crossover	30LX25	30LX26	30LX27	30LX28	30LX29
S	Four-Socket Cross	30LX35	30LX36	30LX37	30LX38	30LX39
T	Three-Socket Cross	30LX40	30LX41	30LX42	30LX43	30LX44
U	Double Swivel Socket	—	—	30LX52	30LX53	—
V	Corner Swivel Socket	—	30LX56	—	30LX58	30LX59
W	Rail Support	30LX60	30LX61	30LX62	30LX63	30LX64
Steel Framing Pipe						
X	7-ft. Length, Pkg. of 5	—	4NXW5	4NXW6	4NXW7	—



Aluminum Slip-On Pipe Fittings and Pipe

Hollaender Your Handrail Source.

- Corrosion-resistant, nonmagnetic, nonsparking

Rugged fittings are as strong as malleable iron, but only ⅓ the weight. The 535 alloy aluminum fittings are suitable for use with aluminum pipe, black iron, galvanized carbon steel, or stainless steel with no electrolytic corrosion. You can easily assemble the railing and structure with just a standard hex key. Innovative set screw design can drastically reduce loosening caused by vibration, and they can resist pull-out and rotational slip. All pipe is anodized aluminum. OSHA, IBC, BOCA, SBC, and UBC Compliant.

For Pipe Size	For Actual Pipe Outer Dia.
1 in	1 ⅜ in
1 ¼ in	1 ⅝ in
1 ½ in	1 ⅞ in, 2 in
2 in	2 ⅜ in

Key	Product Type	FOR PIPE SIZE 1" Item No.	1¼" Item No.	1½" Item No.	2" Item No.
Structural Pipe Fittings					
A	Elbow	54WK13	54WK14	54WK15	54WJ78
B	Adjustable Elbow	54WK10	54WJ96	54WJ77	54WJ81
C	Side-Outlet	54WK38	54WK39	54WJ95	14G939
D	Adjustable Elbow/Tee	—	54WK11	54WK12	—
E	Tee	54WK23	54WK24	54WK25	54WJ79
F	Tee-E	54WK29	—	—	—
G	Adjustable Tee	—	54WJ76	54WJ99	—
H	Side-Outlet	54WK04	54WK05	54WK06	14G940
I	Adjustable Cross Tee	—	—	—	14G942
J	Cross-E	54WK35	54WK36	54WK37	—
J	Cross	—	—	—	54WJ80
K	Offset Cross	54WK07	54WK08	54WK09	—
L	Round Base Flange	—	54WK19	54WK20	—
M	Base Flange	54WJ86	54WK21	54WK22	54WJ82
N	Rectangular Flange	54WJ87	—	—	—
O	Adjustable Flange	54WJ88	54WK01	54WK02	—
P	Wall Flange	54WK26	54WK27	54WK28	—
Q	External Coupling	54WK32	54WK33	54WK34	54WJ84
R	Plug	54WJ89	54WJ90	54WJ91	54WJ83
S	Shelf Tab	54WJ92	54WJ93	54WJ94	—
T	Adjustable Swivel	54WK16	54WK17	54WK18	—
U	Handrail Bracket	—	54WK03	—	—
Aluminum Framing Pipe					
V	8 ft L, Pkg. of 5	54XN47	54XN49	54XN48	—

Welded and Woven Wire Mesh Partition Selection Guide

WELDED WIRE MESH PARTITIONS

- Welded wire construction allows the installer to make modifications with relative ease
- Lightweight but strong
- Feature straight lines; steel wires are welded at each intersection, which allows it to maintain its shape when stressed
- Typically has larger openings than woven wire
- Less expensive than woven wire partitions

WOVEN WIRE MESH PARTITIONS

- Woven mesh often requires metal framing or edging to secure the partition panels
- Heavier product
- There are no easy footholds or handholds with woven wire panels
- Has a textured look with steel wires precision crimped and woven into a mesh, which locks them into place and provides extra strength

How To Order Wire Partitions

1. Sketch the enclosure and indicate the desired overall width, depth, and height on the sketch.

2. Add the location of the doors to the sketch and indicate the desired size and style of doors.

3. Determine the number and width of wall panels needed.

4. Add a corner post at each 90° corner.

5. Add line posts on both sides of each panel for straight runs of panels.

OR

Provide a drawing and forward all the information to your Grainger Account Manager and/or your local Grainger branch.

Complete Wire Security Cages

- Include a sliding door
- Keyed cylinder lock

Provide protected, enclosed areas for work or storage inside a facility. Restrict access to valuable tools, products, and equipment in stockrooms, warehouses, and other industrial facilities. Wire mesh panels allow light and air to pass through and give clear visibility to the contents of the cages. Include all necessary hardware for assembly.

Woven-wire cages assemble with bolts and nuts. Panels are made from 10-ga. steel wire that is crimped and woven into a 1½" diamond mesh. Mesh may unravel if cut.

Quick-assemble adaptable welded-wire cages assemble easily with clips and self-tapping screws. Panels are made of galvanized wires welded at each intersection to form a 1½" x 3" rectangular mesh, making them stronger and more durable than woven-wire panels. Panels can be cut to a smaller size if needed, or to accommodate pipes and other obstacles.

Overall Width	Overall Depth	2 WALLS 8 ft H Item No.	2 WALLS 10 ft H Item No.	3 WALLS 8 ft H Item No.	3 WALLS 10 ft H Item No.	4 WALLS 8 ft H Item No.	4 WALLS 10 ft H Item No.
Woven Wire							
With Ceiling Panel							
10 ft	10 ft	22PX87	22PX81	22PX89	22PX83	22PX91	22PX85
20 ft	10 ft	22PY01	22PX94	22PY03	22PX96	22PY05	22PX98
	15 ft	22PY14	22PY08	22PY16	22PY10	22PY18	22PY12
	20 ft	22PY27	22PY21	22PY29	22PY23	22PY31	22PY25
30 ft	20 ft	22PY40	22PY34	22PY42	22PY36	22PY44	22PY38
Without Ceiling Panel							
10 ft	10 ft	22PX86	22PX80	22PX88	22PX82	22PX90	22PX84
12 ft	8 ft	4JY81	—	4JY82	—	4JY83	—
16 ft	12 ft	4JY84	—	4JY85	—	4JY86	—
20 ft	10 ft	22PX99	22PX93	22PY02	22PX95	22PY04	22PX97
	15 ft	22PY13	22PY07	22PY15	22PY09	22PY17	22PY11
	20 ft	22PY26	22PY20	22PY28	22PY22	22PY30	22PY24
30 ft	20 ft	22PY39	22PY33	22PY41	22PY35	22PY43	22PY37

Overall Width	Overall Depth	2 WALLS 8 ft H Item No.	2 WALLS 12 ft H Item No.	3 WALLS 8 ft H Item No.	3 WALLS 12 ft H Item No.	4 WALLS 8 ft H Item No.	4 WALLS 12 ft H Item No.
Quick-Assemble Adaptable Welded Wire							
With Ceiling Panel							
8 ft	8 ft	22PY91	22PY85	22PY93	22PY87	22PY95	22PY89
12 ft	8 ft	22PY63	22PY58	22PY64	22PY60	22PY65	22PY62
	12 ft	22PY52	22PY47	22PY53	22PY49	22PY54	22PY51
16 ft	12 ft	22PY72	22PY67	22PY73	22PY69	22PY74	22PY71
	16 ft	22PY81	22PY76	22PY82	22PY78	22PY83	22PY80
Without Ceiling Panel							
8 ft	8 ft	22PY90	22PY84	22PY92	22PY86	22PY94	22PY88
12 ft	8 ft	7A599	22PY57	7A595	22PY59	7A589	22PY61
	12 ft	7A600	22PY46	7A596	22PY48	7A590	22PY50
	20 ft	—	—	—	—	—	22PY55
	40 ft	—	—	—	—	—	22PY56
16 ft	12 ft	7A601	22PY66	7A597	22PY68	7A591	22PY70
	16 ft	7A602	22PY75	7A598	22PY77	7A592	22PY79

4-Wall Without Ceiling Panel 35W448

WireCrafters

Complete Wire Security Cages

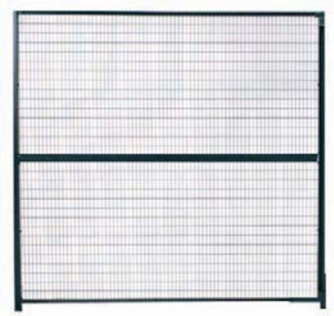
- Include hinged or sliding door
- Keyed cylinder lock

Provide protected, enclosed areas for work or storage inside a facility. Restrict access to valuable tools, products, and equipment in stockrooms, warehouses, and other industrial facilities. Wire mesh panels allow light and air to pass through and give clear visibility to the contents of the cages. Installation and assembly is quick and easy with included hardware. For added security, bolts are only accessible from inside the cage.

Welded-wire panels are made from 10-ga.wire that is welded at each intersection to form a 2" x 2" square mesh. Cutouts can be made to accommodate pipes and other obstacles without affecting the mesh.

Woven-wire panels are made from 10-ga. wire that is crimped and woven into a 2" x 1" rectangular mesh, providing strength and security.

Overall Width	Overall Depth	Overall Height	Door/Gate Opening Type	2 WALLS Item No.	3 WALLS Item No.	4 WALLS Item No.
Welded Wire						
With Ceiling Panel						
8 ft	8 ft	8 ft H	Hinged	—	—	35W462
10 ft	10 ft	10 ft H	Sliding	—	—	35W468
12 ft	12 ft	10 ft H	Hinged	—	—	35W464
Without Ceiling Panel						
8 ft	8 ft	8 ft H	Hinged	35W457	35W459	35W461
10 ft	10 ft	10 ft H	Sliding	35W465	35W466	35W467
12 ft	12 ft	8 ft H	Hinged	35W458	35W460	35W463
20 ft	20 ft	10 ft H	Hinged	—	—	35W469
Woven Wire						
With Ceiling Panel						
8 ft	8 ft	8 ft H	Hinged	—	—	35W449
10 ft	10 ft	10 ft H	Sliding	—	—	35W455
12 ft	12 ft	8 ft H	Hinged	—	—	35W451
Without Ceiling Panel						
8 ft	8 ft	8 ft H	Hinged	35W444	35W446	35W448
	10 ft	8 ft H	Hinged	38XZ56	—	—
	10 ft	10 ft H	Hinged	38XY49	38XY59	38XY88
10 ft	8 ft	8 ft H	Hinged	—	—	38XY46
	10 ft	8 ft H	Hinged	—	38XZ15	—
	10 ft	10 ft H	Sliding	35W452	35W453	35W454
12 ft	12 ft	8 ft H	Hinged	35W445	35W447	35W450
16 ft	16 ft	8 ft H	Hinged	38XZ60	38XY50	—
20 ft	20 ft	10 ft H	Hinged	38XY66	—	38XY07
	20 ft	10 ft H	Sliding	—	—	35W456



Stacking Panel
35W483

Hinged Door
35W553

WireCrafters

Wire Partition Components

Individual components are assembled with bolts and nuts to create custom secure, enclosed areas for work or storage. Can also be used to modify existing units.

Welded-wire panels and doors have a 2" x 2" square mesh opening and a powder-coated finish.

Woven-wire panels and doors have 2" x 1" rectangular mesh opening and an enamel finish.

Overall Width	8 ft H Item No.	10 ft H Item No.	12 ft H Item No.
Stacking Panels			
Welded-Wire			
12 in	**35W517**	**35W527**	**35W537**
24 in	**35W518**	**35W528**	**35W538**
36 in	**35W519**	**35W529**	**35W539**
48 in	**35W520**	**35W530**	**35W540**
60 in	**35W521**	**35W531**	**35W541**
72 in	**35W522**	**35W532**	**35W542**
84 in	**35W523**	**35W533**	**35W543**
96 in	**35W524**	**35W534**	**35W544**
108 in	**35W525**	**35W535**	**35W545**
120 in	**35W526**	**35W536**	**35W546**
Woven-Wire			
12 in	**35W483**	**35W493**	**35W504**
24 in	**35W484**	**35W494**	**35W505**
36 in	**35W485**	**35W495**	**35W506**
48 in	**35W486**	**35W496**	**35W507**
60 in	**35W487**	**35W497**	**35W508**
72 in	**35W488**	**35W498**	**35W509**
84 in	**35W489**	**35W499**	**35W510**
96 in	**35W490**	**35W501**	**35W511**
108 in	**35W491**	**35W502**	**35W512**
120 in	**35W492**	**35W503**	**35W513**

Hinged and sliding doors include 2 posts and mounting hardware.

Line post is required on both sides of each panel for long, straight runs.

Overall Width	8.4 ft H Door Height	8.4 ft H Item No.	10.4 ft H Door Height	10.4 ft H Item No.	12.4 ft H Door Height	12.4 ft H Item No.
Welded-Wire Partition Components						
Hinged Door						
40 in	87 ⅝ in	**35W583**	87 ⅝ in	**35W591**	87 ⅝ in	**35W599**
52 in	87 ⅝ in	**35W584**	87 ⅝ in	**35W592**	87 ⅝ in	**35W601**
Sliding Door						
40 in	96 in	**35W585**	120 in	**35W593**	96 in	**35W602**
52 in	96 in	**35W586**	120 in	**35W594**	96 in	**35W603**
64 in	96 in	**35W587**	120 in	**35W595**	96 in	**35W604**
76 in	96 in	**35W588**	120 in	**35W596**	96 in	**35W605**
100 in	96 in	**35W589**	120 in	**35W597**	—	—
104 in	—	—	—	—	96 in	**35W606**
124 in	96 in	**35W590**	120 in	**35W598**	96 in	**35W607**
Woven-Wire Partition Components						
Hinged Door						
40 in	87 ⅝ in	**35W553**	87 ⅝ in	**35W563**	87 ⅝ in	**35W573**
52 in	87 ⅝ in	**35W554**	87 ⅝ in	**35W564**	87 ⅝ in	**35W574**
Hinged Double Door						
76 in	87 ⅝ in	**35W555**	87 ⅝ in	**35W565**	87 ⅝ in	**35W575**
100 in	87 ⅝ in	**35W556**	87 ⅝ in	**35W566**	87 ⅝ in	**35W576**
Sliding Door						
40 in	96 in	**35W557**	120 in	**35W567**	96 in	**35W577**
52 in	96 in	**35W558**	120 in	**35W568**	96 in	**35W578**
64 in	96 in	**35W559**	120 in	**35W569**	—	—
65 in	—	—	—	—	96 in	**35W579**
76 in	96 in	**35W560**	—	—	96 in	**35W580**
76 in	120 in	**35W570**	—	—	—	—
100 in	96 in	**35W561**	120 in	**35W571**	96 in	**35W581**
124 in	96 in	**35W562**	120 in	**35W572**	96 in	**35W582**
Line Post						
2 in	—	**35W547**	—	**35W548**	—	**35W549**
Corner Post						
2 in	—	**35W550**	—	**35W551**	—	**35W552**

Woven-Wire
Adjustable Panel
4KY78

Quick-Assemble
Slide Door
488V93

Corner Post
4KY82

FOLDING GUARD®

Wire Partition Components

Combine individual components to create custom wire partitions, tool cribs, and security cages or to modify existing units. Provide secure, enclosed areas and restrict access to valuable tools, products, and equipment in stockrooms, warehouses, and other industrial facilities. Wire mesh panels allow light and air to pass through and give clear visibility to the contents of the cages.

Adjustable gap panel offers width adjustment from 2½" to 13" and can be used to fill small gaps between panels.

Hinged and sliding doors are lockable and include mounting hardware.

Overall Width	8 ft Item No.	10 ft Item No.
Woven-Wire Partition Components		
Adjustable Gap Panel		
13 in	**4KY78**	**4KY79**
Full Height Panel		
12 in	**4KY76**	**4KY77**
24 in	**4KY74**	**4KY75**
36 in	**4KY72**	**4KY73**
48 in	**4KY70**	**4KY71**
60 in	**4KY68**	**4KY69**

Overall Width	Door Height	Overall Height	Item No.
Quick-Assemble Adaptable Welded-Wire Partition Components			
Hinged Door			
36 in	93 ¼ in	8 ft	**488V88**
48 in	93 ⅞ in	8 ft	**488V94**
Slide Door			
36 in	7 ⅞ in	8 ft	**488V93**
48 in	93 ⅞ in	8 ft	**488V89**
60 in	7 ⅞ in	8 ft	**488V92**
72 in	93 ⅞ in	8 ft	**488V90**
96 in	93 ⅞ in	8 ft	**488V91**
Post			
—	—	8 ft	**6H367**
Woven-Wire Partition Components			
Hinged Door			
48 in	79 ½ in	8 ft	**4KY89**
48 in	79 ½ in	10 ft	**4KY91**
Sliding Door			
96 in	96 in	8 ft	**4KY99**
96 in	113 ¼ in	10 ft	**4LA11**
Corner Post			
1 ¼ in	—	8 ft	**4KY82**
1 ¼ in	—	10 ft	**4KY83**
Post			
1 in	—	8 ft	**4KY80**
1 in	—	10 ft	**4KY81**

Hinged Door
8DHR2

Sliding Door
8DHR4

HUSKY RACK & WIRE™

Quick-Assemble Wire Partition Components

- Woven wire

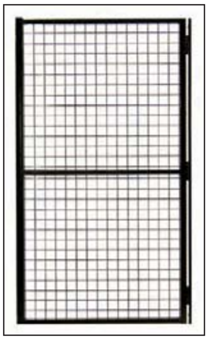
Components swiftly assemble with clips and pound-in rivets to create secure, enclosed areas for work or storage. Clips and rivets are not accessible from outside the cage, to increase security and prevent tampering. Panels are made of 10-ga. steel wire that is crimped and woven into a diamond-shaped mesh with a 1½" x 1½" mesh opening. All doors include mounting hardware.

Overall Width	4 ft H Item No.	5 ft H Item No.
Stackable Panel		
12 in	**8TMM3**	**9NVN8**
24 in	**9RCT4**	**8TMM4**
36 in	**8UPP4**	**8WAE9**
48 in	**9NVN0**	**9K668**
60 in	**9WAU1**	**9K673**
72 in	**9CM92**	**8XCZ6**
84 in	**8XCZ7**	**8TML8**
96 in	**8NKA4**	**8YAG8**
108 in	**9CM93**	**9CM94**
120 in	**9NVN5**	**8RKE6**

Overall Width	8 ft H Door Height	8 ft H Item No.	10 ft H Door Height	10 ft H Item No.
Hinged Doors				
36 in	84 in	**8DHR2**	84 in	**8RKE7**
48 in	84 in	**9RCT0**	84 in	**8DHR3**
Sliding Doors				
36 in	96 in	**8DVK4**	120 in	**9KE29**
48 in	96 in	**9JA15**	120 in	**8DHR4**
60 in	96 in	**8YAG9**	120 in	**9K676**
72 in	96 in	**8NKA5**	120 in	**8ZCD8**
96 in	96 in	**9EY93**	120 in	**8DVK7**
120 in	96 in	**9T399**	120 in	**8NFN7**
Corner Post				
2 ½ in	—	**8YAH4**	—	**8ZCE4**
Post				
—	—	**8WAW0**	—	**8DJ84**

Velox

Machine Guard System



Hinged Door

- Includes installation hardware

Easy-to-assemble barriers protect workers from dangerous machinery, equipment, and robotic cells. 8-ga. panels are welded to a 2" x 2" wire grid pattern. Order panels separately. Use hook fasteners and drive pins (included) to fasten into a 16-ga. 2½" square steel post. Components come with welded footplates and anchor bolts. System installs 50% faster than most other wire guarding products and is easily modified to accommodate field obstructions.

Description	H	W	Item No.
Doors			
Left Open Sliding Door	6 ft	5 ft	**48RN11**
Right Open Sliding Door	6 ft	5 ft	**48RN12**
Welded-Wire Machine Guard Door	66 in	2 ft 10 in	**6TMK9**
Welded-Wire Machine Guard Door	6 ft	3 ft 10 in	**6TML0**
Machine Guard Cut-Down Panel Kit	—	—	**6TML6**

H	W	Item No.
Machine Guard Panels		
6 ft	10 in	**23PC13**
6 ft	22 in	**23PC14**
6 ft	34 in	**23PC15**
6 ft	46 in	**23PC16**
6 ft	58 in	**23PC17**
6 ft	70 in	**23PC18**
6 ft	82 in	**23PC19**
6 ft	94 in	**23PC20**

Description	H	Item No.
Posts		
Corner Post	6 ft	**6TMK6**
Slide Door Post	6 ft	**48RN13**
Swing Door Post	6 ft	**6TMK7**
Adjustable Corner Post	6 ft	**6TMK8**

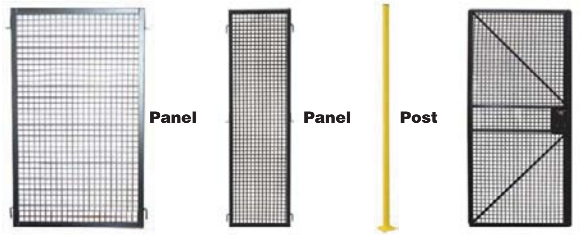
Double
54XU47

Steel Folding Dock Gates

¾" x ⅜" 15-ga. U-channels riveted back-to-back construction. Equipped with self-securing center drop-in pin. 12-ga. steel vertical gate rails are 1½" x 1½". Universal mounting on face or in casing. Powder-coated finish. Include brackets, bearing washers, casters, and lock lugs. Padlocks not included.

Opening Width	Folded Height	Folded Width	In Use Height	Item No.
Single				
3 to 4 ft	6 ½ ft	7 ft	6 ft	**54XU44**
5 to 6 ft	6 ½ ft	7 ft	6 ft	**54XU43**
6 to 7 ft	6 ft	7 ft	6 ft	**54XU42**
	11 in	7 ft	6 ½ ft	**54XU41**
	11 in	7 ft	7 ½ ft	**54XU39**
	11 in	7 ft	7 ft	**54XU40**
7 to 8 ft	6 ft	6 ½ ft	6 ft	**54XU37**
	11 in	7 ft	6 ½ ft	**54XU36**
	11 in	7 ½ ft	7 ft	**54XU35**
	11 in	8 ft	7 ½ ft	**54XU34**
	11 in	8 ft	8 ½ ft	**54XU33**
8 to 9 ft	11 in	7 ft	7 ft	**54XU31**
Double				
6 to 8 ft	6 ½ ft	7 ft	6 ft	**54XU47**
8 to 10 ft	11 in	6 ft	6 ft	**54XU57**
	11 in	7 ft	7 ft	**54XU56**
10 to 12 ft	6 ½ ft	11 in	6 ft	**54XU55**
12 to 14 ft	7 ½ ft	7 ft	7 ft	**54XU54**
14 to 16 ft	6 ½ ft	7 ft	6 ft	**54XU53**
16 to 18 ft	11 in	7 ft	7 ft	**54XU51**
	15 in	7 ft	6 ½ ft	**54XU52**
	15 in	7 ft	7 ½ ft	**54XU50**
18 to 20 ft	15 in	7 ft	6 ½ ft	**54XU49**
	15 in	7 ft	7 ½ ft	**54XU48**
Portable Single				
6 to 7 ft	6 ½ ft	6 ft 6in	6 ft	**54XU28**
Portable Double				
1 to 12 ft	6 ½ ft	6 ft 6 in	6 ft	**54XU29**
Single				
6 to 7 ft	8 ½ ft	11 in	8 ft	**54XU38**
8 to 9 ft	7 ft	15 in	6 ½ ft	**54XU32**
	8 ft	15 in	7 ½ ft	**54XU30**
9 to 10 ft	7 ft	15 in	6 ½ ft	**54XU46**
	8 ft	15 in	7 ½ ft	**54XU45**

19N865



Panel Panel Post Door

Machine Guard System

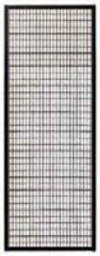
Up to 12" sweep. Panel system is held in place with pins, brackets, and safety nuts. Can be reconfigured. All-steel, welded-wire post. Lockable hinged doors. Includes safety socket wrench.

H	W	Item No.
Wire Partition Panels		
5 ft	2 ft	**19N873**
	3 ft	**19N872**
	4 ft	**19N871**
	5 ft	**19N870**
	8 ft	**19N869**
7 ft	2 ft	**19N868**
	3 ft	**19N867**
	4 ft	**19N866**
	5 ft	**19N865**

H	W	Item No.
Posts		
Line Posts		
6 ft	2 in	**19N876**
8 ft	2 in	**19N874**
Offset Post		
8 ft	2 in	**19N875**
Corner Post		
6 ft	2 in	**19N877**
Doors		
5 ft	4 ft	**19N880**
7 ft	3 ft	**19N879**
	4 ft	**19N878**

FOLDING GUARD®

Saf-T-Fence Machine Perimeter Guarding

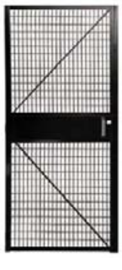


Panel
19H220

Post
19H232

- Economical alternative to permanent walls
- Combines security, strength, and flexibility

An all-steel, modular system of panels, posts, and hinged doors protect machinery, employees, and visitors. Easy to assemble with interchangeable panels and posts. 10-ga. welded wire mesh with 1¼" x 2½" grid openings welded to 1½" x 1½" x 14-ga. steel angle frames.



Hinged Door
19H230

Overall Height	Overall Width	Item No.
Panels		
58 in	10 in	**19H236**
	16 in	**19H238**
	19 in	**19H240**
	22 in	**19H220**
	28 in	**19H243**
	34 in	**19H221**
	46 in	**19H222**
	58 in	**19H223**
	70 in	**19H245**
	94 in	**19H224**
82 in	10 in	**19H237**
	16 in	**19H239**
	19 in	**19H241**
	22 in	**19H225**
	28 in	**19H244**
	34 in	**19H226**
	48 in	**19H227**
	58 in	**19H228**

Overall Height	Overall Width	Item No.
Posts		
5.3 ft	3 in	**19H232**
7 ft	2 in	**19H234**
Hinged Doors		
5 ft	3 ft	**19H246**
	4 ft	**19H248**
7 ft	3 ft	**19H247**
	4 ft	**19H249**
With Cylinder Lock		
5 ft	4 ft	**19H229**
7 ft	3 ft	**19H230**
	4 ft	**19H231**

Workbench Top Selection Guide

Steel stringer and fasteners included. Choose from 4 edges and 7 work surfaces.

Steel—Smooth surface will not crack or absorb oil. 12-ga. Gray powder-coated finish.

Shop—Versatile, oil- and moisture-resistant surface. Top and bottom are ⅜" super-hard custom board, sanded and sealed.

Plastic Laminate—Nonconductive surface, ideal for electronics assembly or repair and service of component parts. Melamine-laminated, gray scrim satin finish.

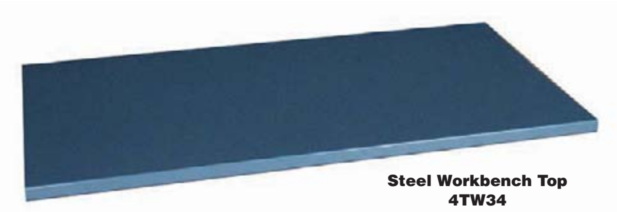
ESD Plastic Laminate—Protect circuit boards and other electronic components from electrostatic discharge. Built-in ground snap for easy connection. Resist stains, oils, and diluted chemicals. Almond finish.

Butcher Block Maple—Resist damage; provides maximum shock absorption. Top-quality, kiln-dried, hardwood maple laminated strips. Oil-rubbed natural finish.

Oak—Nonconductive, impact-resistant solid oak strips laminated together and sanded for a smooth, tough surface. Clear lacquer finish.

Phenolic—Nonconductive with higher resistance to chemicals, stains, abrasions, scratching, and humidity. Black finish.

Straight Edge
Radius Edge
45° Bevel Edge
Bullnose Edge



Steel Workbench Top
4TW34

Drawer
35UX23

Workbench Tops and Legs

Workbench Tops—See Selection Guide at the top of this page for further information.

Workbench Legs—All-welded steel legs are for use with workbench tops. Prepunched for tops, stringer, and lower shelf. Electrical knockouts allow for electrical outlets. Feet can be mounted to floor. Load rating based on evenly distributed loads. Sold individually. Gray powder-coated finish.

Flared Leg
E6577

Edge Type	Top Width	Top Thickness	Brand	30 IN Item No.	36 IN Item No.
Workbench Top					
Butcher Block Birch					
Radius Edge	48 in	1 ¾ in	—	4KYY5	—
	60 in	1 ¾ in	—	4KYY6	—
	72 in	1 ¾ in	—	4KYY7	4KYY8
	96 in	1 ¾ in	—	4KYY9 *	4KYZ1 *
	120 in	1 ¾ in	—	4KYZ2 *	4KYZ3 *
Straight Edge	48 in	1 ¾ in	—	4KYY2	—
	60 in	1 ¾ in	—	4TW44	—
	72 in	1 ¾ in	—	4TW45	4TW47
	96 in	1 ¾ in	—	—	4TW48 *
	120 in	1 ¾ in	—	4KYY3 *	4KYY4 *
Engineered Wood					
Straight Edge	48 in	1 ½ in	—	4KYZ4	—
	60 in	1 ½ in	—	4TW87	—
	72 in	1 ½ in	—	4TW88	4TW90
	96 in	1 ½ in	—	4KYZ5 *	4KYZ6 *
Hardwood					
⅛ in Eased Edge All Sides/Corners	48 in	1 ¾ in	—	3MKA4	—
	60 in	1 ¾ in	—	—	3MKC3
	72 in	1 ¾ in	—	—	3MKC5
	96 in	1 ¾ in	—	3MKC1	—
Plastic Laminate					
Bullnose Edge	60 in	1 ¾ in	—	4KZA1	—
	72 in	1 ¾ in	—	4KZA2	4KZA3
	96 in	1 ¾ in	—	4KZA4 *	—
Straight Edge	48 in	1 ¾ in	—	4KYZ7	—
	72 in	1 ¾ in	—	—	4TW77
	96 in	1 ¾ in	—	—	4TW78 *
Stainless Steel					
Square Edge	72 in	1 ¼ in	Jamco	29RK58	—
Straight Edge	60 in	1 ¼ in	Jamco	29RK57	—
Steel					
Straight Edge	60 in	1 ½ in	—	4TW34	—
	72 in	1 ½ in	—	4TW35	4TW36
	96 in	1 ½ in	—	—	20GZ71

** 96" and 120"W workbench tops require 3 legs.*

W	D	H	Drawers	Color	Brand	Item No.
Adjustable Straight Leg						
3 in	30 in	27 ⅞ to 35 ⅜ in	—	Sand, Gray	Tennsco	E6579
3 in	36 in	27 ⅞ to 35 ⅜ in	—	Sand, Gray	Tennsco	E6580
Flared Leg						
3 ½ in	30 in	32 in	—	Gray, Sand	Tennsco	E6577
3 ½ in	36 in	32 in	—	Gray, Sand	Tennsco	E6578
Drawer Pedestal						
18 in	24 in	32 in	3	Black/Red	Hallowell	6XXU0
18 in	24 in	32 in	6	Black/Red	Hallowell	6XXT8
24 in	24 in	32 in	3	Black/Red	Hallowell	6XXU1
24 in	24 in	32 in	6	Black/Red	Hallowell	6XXT9
Cabinet Pedestal						
18 in	24 in	32 in	—	Black/Red	Hallowell	6XXU2
24 in	24 in	32 in	—	Black/Red	Hallowell	6XXU3
26 in	26 in	26 in	—	White/Blue	Pro-Line	16Y930

W	D	H	Color	Brand	Item No.
Accessories					
Drawer					
15 in	19 ¼ in	6 in	Gray	Pro-Line	16D746
	19 ¼ in	6 in	Sky Blue	Pro-Line	E8580
	19 ¼ in	6 in	Blue, Gray, Beige	Pro-Line	G3293
	19 ¼ in	12 in	Gray	Pro-Line	16D747
	19 ¼ in	12 in	Sky Blue, Beige	Pro-Line	E8581
	19 ¼ in	12 in	Blue, Gray, Beige	Pro-Line	G3294
18 in	24 in	6 in	Black	Hallowell	35UX23
Foot Rest					
60 in	1 ½ in	1 ½ in	Blue, Gray, Beige	Pro-Line	G3306
66 ¼ in	1 ½ in	1 ½ in	Beige	Pro-Line	1UG99
72 in	1 ½ in	1 ½ in	Blue	Pro-Line	16D637
	1 ½ in	1 ½ in	Gray	Pro-Line	16D638
	8 in	1 in	Beige	Pro-Line	E8583
Overhead Light/Frame					
54 ½ in	24 in	2 in	Gray	Pro-Line	16D616
60 in	12 in	6 in	Blue	Pro-Line	16D615
	16 in	6 in	Beige/White	Pro-Line	4UJ61
72 in	12 in	6 in	Blue	Pro-Line	16D617
	16 in	6 in	Beige/White	Pro-Line	4UJ62
	24 in	6 in	Gray	Pro-Line	16D618
Power Strip					
48 in	1 ½ in	1 ½ in	Silver	Hallowell	36L591
60 in	1 ½ in	1 ½ in	Blue	Pro-Line	16D627
	1 ½ in	1 ½ in	Gray	Pro-Line	16D628
	2 in	2 in	Beige	Pro-Line	4UJ54
66 ½ in	1 ½ in	1 ½ in	Gray	Pro-Line	16D630
72 in	1 ½ in	1 ½ in	Blue	Pro-Line	16D629
	2 in	2 in	Beige	Pro-Line	4UJ49
Riser					
48 in	10 in	12 in	Black	Hallowell	35UX16
60 in	10 in	12 in	Black	Hallowell	35UX17
72 in	10 in	12 in	Black	Hallowell	35UX18
Tool Balancer					
50 in	8 in	6 in	Blue	BenchPro	12V617
98 in	8 in	6 in	Blue, Gray, Black	BenchPro	G4880
122 in	8 in	6 in	Blue, Gray, Black	BenchPro	G4881
Tool Balancer Frame					
50 in	8 in	6 in	Gray	BenchPro	12V665
Tool Frame and Trolley					
48 in	6 in	4 in	Black	BenchPro	12V714
Upper Shelf					
48 in	12 in	4 in	White	BenchPro	12V546
60 in	12 in	¾ in	Sky Blue, Gray	Pro-Line	E8574
72 in	12 in	¾ in	Gray, Beige	Pro-Line	E8575
	12 in	1 in	Sky Blue	Pro-Line	E8575
120 in	12 in	4 in	White	BenchPro	12V550

Preconfigured Industrial Workbenches

Extra heavy-duty steel construction. All benches have legs with front and rear knockouts for 2" electrical boxes. 3" side and back stop keeps items from rolling off the workbench. Feature 14-ga. steel stringers with a deep profile. Medium-gray powder-coated finish. Steel tops have 2 intermediate reinforcement channels. Adjustable Leg workbenches adjust from 27⅞" to 35⅜" in 1½" increments.

Adjustable-Height Legs
1PA85

ACCESSORIES

Standard Shelf Risers—1½" back stop. Electrical risers are available to add optional electrical outlets.

Lower Shelf—Adds extra work space and features a 1½" protective back stop.

Side and Back Rail Kits—16"-ga. steel rails bolt to workbench top and can be used with other bench accessories. Easy to install with standard tools.

Stackable Drawer—Features adjustable divider, pencil tray, and adjustable ball bearing slides. Includes padlock hasp; optional cam lock 2ZV23 available separately.

Stackable Drawer Cam Lock—Compatible with stackable drawer 1PB13. Includes 2 keys.

Electric Wiring Kit—Kit 1PB78 comes 90% preassembled with 4 duplex receptacles, On/Off switch with pilot light, circuit breaker, and 8-ft. grounded cord and plug.

Mobile Caster Kit—2ZV22 can be used with 48", 60", and 72" Tennsco workbenches. 1000-lb. load rating. Recommend using a lower shelf for stability.

Description	D	H*	48 IN WIDTH Item No.	60 IN WIDTH Item No.	72 IN WIDTH Item No.	96 IN WIDTH Item No.
Fixed-Leg Workbenches						
12-ga. Steel Top	30 in	33 ½ in	4TKN2	1PA89	1PA91	4TKN6
	36 in	33 ½ in	19PA14	1PA90	1PA92	4TKP1
Composition Top	30 in	33 ¾ in	4TKN5	1PB47	1PB52	4TKN9
	36 in	33 ¾ in	—	1PB50	1PB54	4TKP4
High-Pressure Plastic Laminate Top	30 in	33 ½ in	4TKN4	1PB33	1PB40	4TKN8
	36 in	33 ½ in	19PA15	1PB36	1PB44	4TKP3
Laminated Butcher Block Top	30 in	33 ¾ in	4TKN3	1PB56	1PB60	4TKN7
	36 in	33 ¾ in	19PA16	1PB58	1PB62	4TKP2
Adjustable-Leg Workbenches						
12-ga. Steel Top	30 in	27⅞ in–35⅜ in	4TKP5	1PA81	1PA83	4TKP9
	36 in	27⅞ in–35⅜ in	19PA17	1PA82	1PA84	4TKR4
Composition Top	30 in	27⅞ in–35⅜ in	4TKP8	1PB23	1PB27	4TKR3
	36 in	27⅞ in–35⅜ in	—	1PB25	1PB30	4TKR7
High-Pressure Plastic Laminate Top	30 in	27⅞ in–35⅜ in	4TKP7	1PB15	1PB19	4TKR2
	36 in	27⅞ in–35⅜ in	19PA18	1PB17	1PB21	4TKR6
Laminated Butcher Block Top	30 in	27⅞ in–35⅜ in	4TKP6	1PA85	1PA87	4TKR1
	36 in	27⅞ in–35⅜ in	19PA19	1PA86	1PA88	4TKR5

** Height from floor to top of work surface. Adjustable-leg workbenches adjust from 27⅞" to 35⅜".*

Description	W	D	H	Item No.
Accessories				
Standard Shelf Riser	48 in	10 ½ in	12 in	4TKT2
	60 in	10 ½ in	12 in	1PA95
	60 in	10 ½ in	18 in	1PA97
	72 in	10 ½ in	12 in	1PB70
	72 in	10 ½ in	18 in	1PA99
	96 in	10 ½ in	12 in	4TKT3
Electrical Shelf Riser	48 in	15 in	18 in	4TKT4
	60 in	15 in	18 in	1PB72
	72 in	15 in	18 in	1PB74
	96 in	15 in	18 in	4TKT6
Lower Shelf	48 in	14 in	1 in	4TLK2
	60 in	14 in	1 in	1PB76
	72 in	14 in	1 in	1PB11
	96 in	14 in	1 in	4TLK3
Side and Back Rail Kit	48 in	30 in	3 in	4TKR8
	48 in	36 in	3 in	19PA20
	60 in	30 in	3 in	1PA93
	60 in	36 in	3 in	1PB66
	72 in	30 in	3 in	1PB64
	72 in	36 in	3 in	1PB68
	96 in	30 in	3 in	4TKR9
	96 in	36 in	3 in	4TKT1
Stackable Drawer	15 in	18 in	8 ¼ in	1PB13
Stackable Drawer Cam Lock	1"	2"	1"	2ZV23
Electric Wiring Kit	—	—	—	1PB78
Workbench Mobile Caster Kit	29 in	—	6½"	2ZV22

Preconfigured Industrial Workbenches

- Drawer capacity: 165 lb., based on evenly distributed loads
- 100% drawer extension
- Back and end stops extend 3" above work surface to retain small items
- Bright blue powder-coated finish

Designed to maximize storage in the work area, while heavy-duty, steel construction provides durability in tough environments. Pedestals have ergonomically designed drawer handles located at the top of the drawer and are flush with pedestal front when drawer is closed for added safety. Drawers include preinstalled partitions with dividers. Pedestals have overall dimensions of 22³⁄₁₆"W x 28½"D x 33½"H and come with a removable core lock for greater security and easy replacement. 2 keys included. Combination drawer/door pedestal features 1 drawer and hinged bottom door section with 1 fixed shelf. Drawer and door lock separately. 4 keys (keyed alike) included. Legs feature sturdy, 1-pc., all-welded construction with bottom hole for leveling glides (included). Feet have anchor holes for floor mounting. Models are also available with 13½"H x 10½"D steel riser shelf with 2"H back stop.

Butcher Block Top with Single Pedestal

Gray Plastic Laminate Top with Double Pedestal and Riser Shelf

Description	D	H	No. of Compartments	No. of Drawers	WITHOUT RISER 60 inW Item No.	WITHOUT RISER 72 inW Item No.	WITH RISER 60 inW Item No.	WITH RISER 72 inW Item No.
Butcher Block Top								
2 Legs	30 in	35 ¼ in	—	—	2MNN7	2MNN8	2MNN9	2MNP1
Single Pedestal	30 in	35 ¼ in	4	1	2MNP6	2MNP7	2MNP8	2MNP9
Single Pedestal	30 in	35 ¼ in	53	5	2MNP2	2MNP3	2MNP4	2MNP5
Double Pedestal	30 in	35 ¼ in	57	6	—	2MNR1	—	2MNR2
Gray Plastic Laminate Top								
2 Legs	30 in	35 ¼ in	—	—	2MNR3	2MNR4	2MNR5	2MNR6
Single Pedestal	30 in	35 ¼ in	4	1	2MNT2	2MNT3	2MNT4	2MNT5
Single Pedestal	30 in	35 ¼ in	53	5	2MNR7	2MNR8	2MNR9	2MNT1
Double Pedestal	30 in	35 ¼ in	57	6	—	2MNT6	—	2MNT7

Single Pedestal without Riser

Double Pedestal with Riser

LISTA

Preconfigured Technical Workbenches

- Drawer capacity: 165 lb., based on evenly distributed loads
- 100% drawer extension
- Light gray plastic laminate top
- Powder-coated finish

For electronic testing and repair, assembly, and other technical applications. Drawers include dividers to customize space. Pedestals come with a removable core lock and 2 keys. Sturdy steel legs have anchor holes for floor mounting. Available with powered riser shelf that includes 6 outlets.

Description	D	H	No. of Drawers	WITHOUT RISER 60 inW Item No.	WITHOUT RISER 72 inW Item No.	WITH RISER 60 inW Item No.	WITH RISER 72 inW Item No.
Bright Blue Powder Coat							
2 Legs	30 in	35 ¼ in	—	**2MNT8**	**2MNT9**	**2MNU1**	**2MNU2**
Single Pedestal	30 in	35 ¼ in	3	**2MNU3**	**2MNU4**	**2MNU5**	**2MNU6**
Double Pedestal	30 in	35 ¼ in	7	**2MNU7**	**2MNU8**	**2MNU9**	**2MNV1**
Gray Powder Coat							
2 Legs	30 in	35 ¼ in	—	**2MNV2**	**2MNV3**	**2MNV4**	**2MNV5**
Single Pedestal	30 in	35 ¼ in	3	**2MNV6**	**2MNV7**	**2MNV8**	**2MNV9**
Double Pedestal	30 in	35 ¼ in	7	**2MNW1**	**2MNW2**	**2MNW3**	**2MNW4**

(Workbench Top Sold Separately) Panel Leg 5-Drawer Pedestal

Vidmar

Stand-Alone Workbench Pedestals and Accessories

- Drawer capacity: 400 lb., based on evenly distributed loads
- 100% drawer extension
- Dark blue powder-coated finish

Drawer pedestals offer superior storage efficiency and organization. Drawers feature adjustable partitions and dividers. Single key locking system locks all drawers at once. All-welded steel construction.

H	No. of Drawers	No. of Compartments	Item No.
Workbench Cabinet Pedestals			
33 in	6	124	**4KC80**
33 in	5	96	**4KC82**
33 in	3	40	**4KC84**

Description	W	H	Item No.
Accessories			
Open Bench Leg	3 in	33 in	**4KC67**
Workbench Riser, Adjustable	72 in	12 to 22 in	**4GE49**
Workbench Riser, Powered	72 in	15 in	**4GE50**
Workbench Riser, Fixed	60 in	14 in	**4KC65**

Stainless Steel Workbench 1NXY8

Pro-Line

Lab Workbenches

- 1000-lb. capacity, based on evenly distributed loads
- Light beige, powder-coated finish

Workbenches have a sturdy 4-leg design with 4" front, side, and back rails to support the work surface and allow operators to work on all 4 sides. Squared work surfaces allow units to be slid together with no gaps. Modular design allows optional accessories to easily bolt on. See Grainger.com® for available accessories.

Chem-Guard®—Black chemical-resistant work surface is 1.250" thick.

Stainless Steel—Work surface is 16-ga. with 0.125" radius edges.

Epoxy Resin—Benches are black with 1" eased edges.

Workbench/ Table Surface Material	D	W	H	Item No.
Chem-Guard®	30 in	60 in	30 in	**1NXZ1**
	30 in	72 in	30 in	**1NXZ4**
Stainless Steel	30 in	60 in	30 in	**1NXY8**
	30 in	72 in	30 in	**1NXZ2**
Epoxy Resin	30 in	60 in	30 in	**1NXY9**
	30 in	72 in	30 in	**1NXZ3**

Electric 16Y675

Dyna-Lift®

Hydraulic Lift Kits

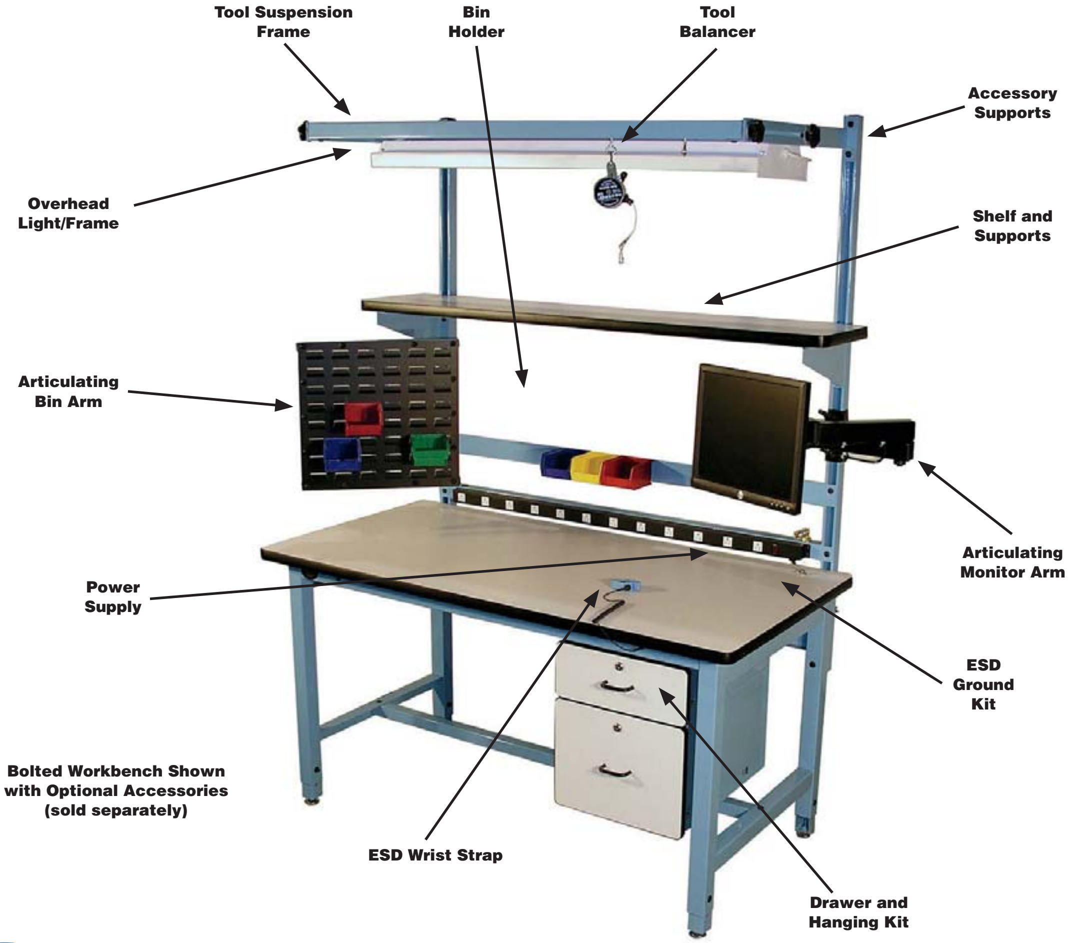
- Aluminum construction
- 1000-lb. load capacity

Ergonomic systems quickly convert a stationary workbench or structure into a height-adjustable unit. Come fully charged; simply bolt the pump and leg cylinders onto the structure with the included mounting templates.

Adjustment Range	Item No.
Manual	
6 in	**16Y670**
8 in	**16Y671**
10 in	**16Y672**
12 in	**16Y673**
16 in	**16Y674**

Adjustment Range	Item No.
Electric	
6 in	**16Y675**
8 in	**16Y676**
10 in	**16Y677**
12 in	**16Y678**
16 in	**16Y679**

For more information about workbench top types, see page 1320.



Bolted Workbench Shown with Optional Accessories (sold separately)

Adjustable-Height Workbenches and Accessories

1¼"-thick work surface has durable "T" mold edges with rounded corners. Base station includes surface, frame, and leveling glides.

Bolted—Top-grade construction features 16-ga. 2"-square legs, 2"-thick front, and 8"-thick back rails.

Hand-Crank—Hand crank safely and easily folds out of the way. 20" steel modesty panel provides lateral support.

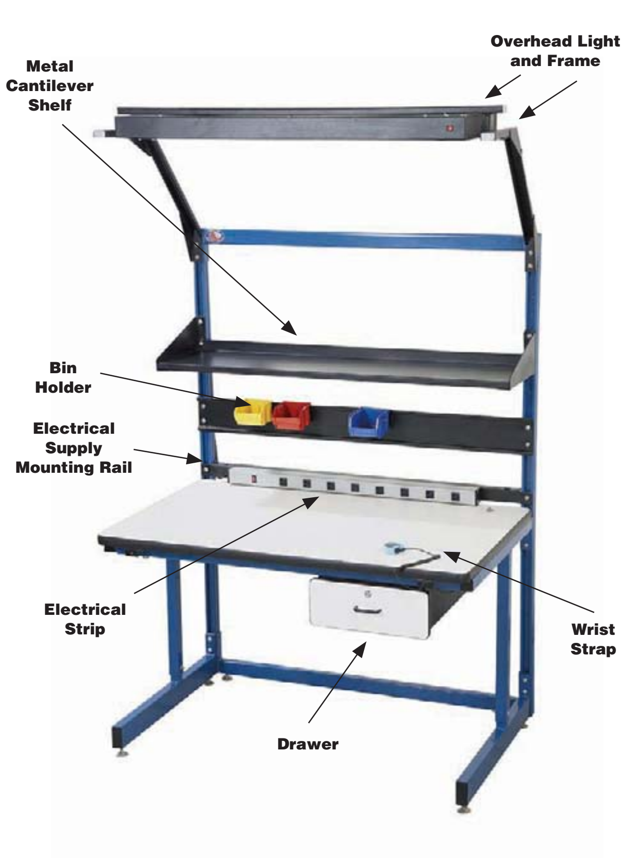
D	W	H	Load Cap.**	▶CHOOSE: Color	Workbench/Table Frame Material	Workbench/ Table Leg Type	Workbench/ Work Table Type	ESD LAMINATE TOP Item No.	LAMINATE TOP Item No.
Hand Crank									
30 in	60 in	30 in to 42 in	330 lb	Beige, Blue, Gray	Steel	Cantilever	Freestanding	**G3667**	**G3668**
		30 in to 42 in	750 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3663**	**G3664**
	72 in	30 in to 42 in	330 lb	Beige, Blue, Gray	Steel	Cantilever	Freestanding	**G3669**	**G3670**
		30 in to 42 in	750 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3665**	**G3666**
Bolted									
30 in	60 in	30 in to 36 in	5,000 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3655**	**G3656**
	72 in	30 in to 36 in	5,000 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3659**	**G3660**
36 in	60 in	30 in to 36 in	5,000 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3657**	**G3658**
	72 in	30 in to 36 in	5,000 lb	Beige, Blue, Gray	Steel	Straight	Freestanding	**G3661**	**G3662**

Description	Fits Workstations	Item No.
Optional Modular Accessories		
Accessory Supports, Extend 48" Above Surface (Sold in Pairs)	60" and 72 in	**4UJ66**
Drawer, 6H" x 15W" x 19¼"L	60" and 72 in	**G3293** *
Drawer, 12H" x 15W" x 19¼"L	60" and 72 in	**G3294** *
Drawer Hanging Kit (1 per Bench)	60" and 72 in	**4UJ55**
ESD Ground Kit (ESD Station Only)	60" and 72 in	**4UJ63**
ESD Wrist Strap (ESD Station Only)	60" and 72 in	**4UJ64**
Articulating Bin Arm (17" x 18")	60" and 72 in	**4UJ43** †
Articulating Monitor Arm (14" x 14") with Keyboard Tray	60" and 72 in	**G3308** †
Tool Balancer (For Tools up to 5 lb., Mounts to 4UJ56 or 4UJ57)	60" and 72 in	**4UJ65**
Overhead Light/Frame	60 in	**4UJ61** †
	72 in	**4UJ62** †

Description	Fits Workstations	Item No.
12" Laminate Shelf and Supports	60 in	**4UJ47** †
	72 in	**4UJ48** †
Bin Holder (Bins Sold Separately)	60 in	**4UJ45** †
	72 in	**4UJ46** †
Power Supply (8 Outlets, 120V, 15 Amp) and Mounting Rail	60 in	**4UJ54** †
	72 in	**4UJ49** †
Tool Suspension Frame (Mounts to 4UJ61. Includes 2 Trolleys)	60 in	**G3304** †
Tool Suspension Frame (Mounts to 4UJ62. Includes 2 Trolleys)	72 in	**G3305** †
Foot Rest	60 in	**G3306**
	72 in	**1UG99**

** When mounting initial drawer to bottom of bench top, purchase 4UJ55 Drawer Hanging Kit. ** Based on evenly distributed loads. † Require Accessory Supports 4UJ66; order separately.*

Basics Workbench (Shown w/Optional Accessories)



Description	Fits Workbenches	W	H	D	Item No.
Accessories					
Overhead Light/Frame	60 in	60 in	24 in	24 in	2WXR8
	72 in	72 in	24 in	24 in	2WXR9
Metal Cantilever Shelf	60 in	60 in	4 in	12 in	2WXT1
	72 in	72 in	4 in	12 in	2WXT2
Bin Rail	60 in	60 in	5 in	1 ½ in	2WXT3
	72 in	72 in	5 in	1 ½ in	2WXT4
Electrical Supply Mounting Rail	60 in	60 in	1 ¾ in	1 ½ in	2WXT5
	72 in	72 in	1 ¾ in	1 ½ in	2WXT6
Power Strip, 120V, 12 Outlets	60" and 72 in	49 in	1 ½ in	1 ½ in	2WXT7
Modular Workbench Drawer	60" and 72 in	15 in	6 in	19 ¼ in	2UMT4
Standard Grounding Kit	60" and 72 in	6 in	3 in	8 in	2MXJ3

Pro-Line

Adjustable-Height Steel Cantilever Workbenches

- Load capacity: 750 lb., based on evenly distributed loads
- 1⅝"-thick steel construction and uprights
- Dark blue powder-coated finish
- Workstations measure 30"D

The modular design allows custom workbench configuration. Nonmarking HDPE glides protect floors and make moving unit easy. Standard Grounding Kit 2MXJ3 includes 2 banana jacks and a mounting bracket.

Electric Workstations adjusts with electric hydraulics, making the benches ideal for multiple users. 3-position memory allows workers to preset and access their own height preferences. Assemble workstations with standard tools. 120V.

Starter units with add-on units enable workspace customization. Steel frame-supported work surface is pull pin adjustable (independent of frame) from 30" to 36"H. Frames are 65"H.

Starter Units include work surface, frame, 2 top supports, and 2 horizontal leg supports.

Add-On Units include work surface, frame, 1 top support, and 1 horizontal leg support.

For ESD laminate surfaces; use Standard Optional Ground Kit 2MXJ3 and Wrist Strap 2WXT8, sold separately, to help protect static-sensitive electronics.

				ESD LAMINATE		LAMINATE	
W	H	Load Capacity	▶CHOOSE: Color	Starter Item No.	Add-On Item No.	Starter Item No.	Add-On Item No.
Bolted Workstations							
60 in	30 in to 36 in	750 lb	Blue	2WXP7	—	2WXP6	—
60 in	30 in to 36 in	750 lb	Light Beige	38GT64	—	—	—
60 in	30 in to 36 in	850 lb	Blue	16D767	—	16D766	—
Electric Workstations							
60 in	30½ in to 46½ in	1,000 lb	Blue, Gray, Beige	G3671	—	G3672	—
60 in	30 in to 42 in	330 lb	Light Blue	49XY58	—	—	—
72 in	30½ in to 46½ in	1,000 lb	Blue, Gray, Beige	G3673	—	G3674	—
Hand Crank Workstations							
60 in	30 in to 42 in	330 lb	Blue, Gray, Beige	G3667	—	G3668	—
60 in	30 in to 42 in	330 lb	Light Beige, Light Gray, Light Blue	—	—	E8567	—
60 in	30 in to 42 in	330 lb	Blue	16D763	—	16D762	—
72 in	30 in to 42 in	330 lb	Blue, Gray, Beige	G3669	—	G3670	—
72 in	30 in to 42 in	330 lb	Blue	16D765	—	16D764	—
One Sided Workstations							
60 in	17 in to 82 in	1,000 lb	Beige	4VZL3	4VZL7	4VZL2	4VZL6
60 in	30 in to 36 in	750 lb	Blue	2WXR1	2WXR3	—	2WXR2
72 in	17 in to 82 in	1,000 lb	Beige	4VZL5	4VZL9	4VZL4	4VZL8
72 in	30 in to 36 in	750 lb	Blue	2WXR5	2WXR7	2WXR4	2WXR6
Two Sided Workstations							
60 in	17 in to 82 in	1,000 lb	Beige	4VZN2	4VZN6	4VZN1	4VZN5
72 in	17 in to 82 in	1,000 lb	Beige	4VZN4	4VZN8	4VZN3	4VZN7

Fort Knox Series Modular Storage System

Hallowell

Modular design for customization of individual workspaces. Feature heavy-duty welded storage components. Textured 2-tone colors black and red with powder-coated finish. All systems include (2) pegboard shelves, a footrest, a power strip and a task light. Cabinets, pedestals, and lockers ship assembled. Individual components available, see Grainger.com.

					Work Surface Material	
Includes	Overall Width	Overall Height	Overall Depth	Shelf Capacity*	LAMINATED HARDWOOD Item No.	12 GA STEEL Item No.
Basic Modular Units						
(1) 3 Drawer Lower Cabinet, (1) 6 Drawer Lower Cabinet	60 in	78 in	24 in	—	22CT54	22CT55
	72 in	78 in	24 in		22CT56	22CT57
Open Modular Units						
(1) 3 Drawer Lower Cabinet, (1) 6 Drawer Lower Cabinet	132 in	78 in	24 in	—	22CT58	—
	132 in	78 in	24 in	575 lb (Shelving Unit)	—	22CT59
	168 in	78 in	24 in	700 lb (Shelving Unit)	22CT60	22CT61
Secure Modular Units						
(1) 2 Door Lower Cabinet, (1) 6 Drawer Lower Cabinet, Cabinet Drawer Kit	132 in	78 in	24 in	1450 lb (Cabinet)	22CT62	22CT63
	168 in	78 in	24 in		22CT64	22CT65
Mixed Modular Units						
(1) 2 Door Lower Cabinet, (1) 3 Drawer Lower Cabinet, Cabinet Drawer Kit	132 in	78 in	24 in	1450 lb (Cabinet) / 575 lb (Shelving Unit)	22CT66	22CT67
	168 in	78 in	24 in	1450 lb (Cabinet) / 700 lb (Shelving Unit)	22CT68	22CT69
Complete Modular Units						
(1) 2 Door Lower Cabinet, (1) 3 Drawer Lower Cabinet, Cabinet Drawer Kit	168 in	78 in	24 in	1450 lb (Cabinet) / 575 lb (Shelving Unit)	22CT70	22CT71
	210 in	78 in	24 in	1450 lb (Cabinet) / 700 lb (Shelving Unit)	22CT72	22CT73

** Based on evenly distributed loads.*

Adjustable-Height Workbenches and Accessories

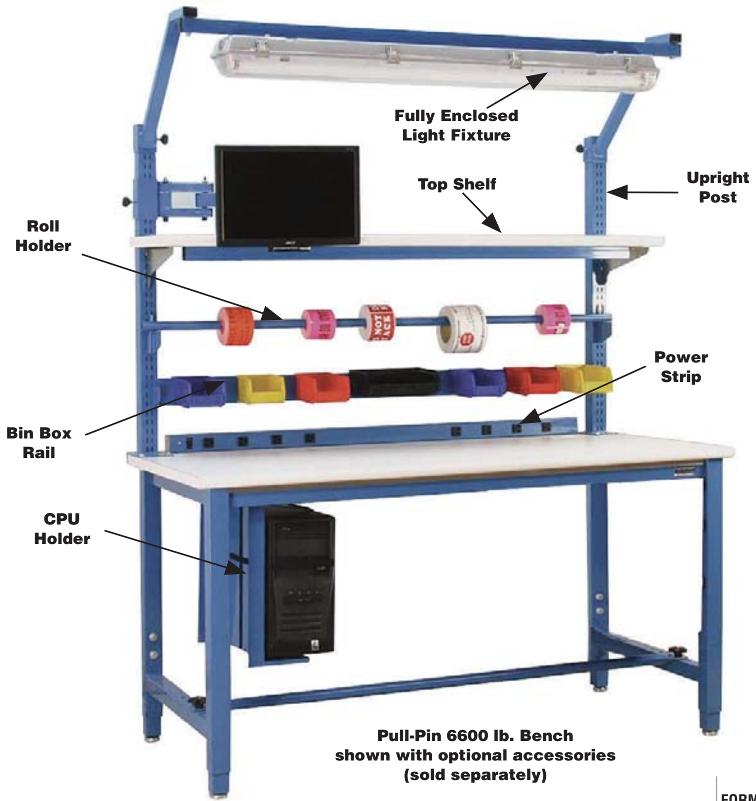
- Chemical- and corrosion-resistant powder-coated finish
- Easy to assemble
- 25-yr. warranty

When ordering Upper Shelf, Light Fixture, Bin Rail, Roll Holder, Articulating Monitor Arm, or Pegboard, Upright Post must be ordered additionally. Tool Balancers include one Tool Balancer Trolley, for additional Trolley, order 12V569.

Workbench with Electric Hydraulic Lift and Hand Crank—1000-lb. capacity workbenches include a heavy-duty leveling glide. Adjust up to 12" in height with either a hand crank or electric hydraulic lift. Legs are constructed with ¼"-thick diagonally welded steel tubing.

Pull-Pin—1600-lb. capacity workbenches are height-adjustable from 30" to 36"H with 13-ga. steel construction. 6600-lb. capacity workbenches provide a sturdy work surface and feature stainless steel trim and ergonomically contoured top.

Fixed Leg—20,000-lb. capacity workbenches feature heavy 3" square legs.



Pull-Pin 6600 lb. Bench shown with optional accessories (sold separately)

W	D	▶CHOOSE: Color	FORMICA™ PLASTIC LAMINATE TOP Item No.	LISSTAT™ STATIC CONTROL LAMINATE TOP Item No.	OILED BUTCHER BLOCK TOP Item No.	GRADE 304 STAINLESS STEEL TOP Item No.
Workbench with Electric Hydraulic Lift, 1,000 lb Capacity						
48 in	30 in	Blue	13E274	13E281	13E288	13E295
60 in	30 in	Blue	13E275	13E282	13E289	13E296
60 in	36 in	Blue	13E278	13E285	13E292	13E299
72 in	30 in	Blue	13E276	13E283	13E290	13E297
72 in	36 in	Blue	13E279	13E286	13E293	13E301
96 in	30 in	Blue	13E277	13E284	13E291	13E298
96 in	36 in	Blue	13E280	13E287	13E294	13E302
Workbench with Hand Crank, 1,000 lb Capacity						
48 in	30 in	Blue	13E246	13E253	13E260	13E267
60 in	30 in	Blue	13E247	13E254	13E261	13E268
60 in	36 in	Blue	13E250	13E257	13E264	13E271
72 in	30 in	Blue	13E248	13E255	13E262	13E269
72 in	36 in	Blue	13E251	13E258	13E265	13E272
96 in	30 in	Blue	13E249	13E256	13E263	13E270
96 in	36 in	Blue	13E252	13E259	13E266	13E273
Pull-Pin Height-Adjustable Bench, 1,600 lb Capacity						
60 in	24 in	Gray	16Y073	16Y089	16Y097	16Y106
60 in	30 in	Gray	16Y074	16Y090	16Y098	16Y107
72 in	30 in	Gray	16Y075	16Y091	16Y099	16Y108
72 in	36 in	Gray	16Y078	16Y094	16Y103	16Y111
96 in	30 in	Gray	16Y076	16Y092	16Y101	16Y109
96 in	36 in	Gray	16Y079	16Y095	16Y104	16Y112
117 in	36 in	Gray	—	—	—	16Y113
117 in	30 in	Gray	—	—	—	16Y110
120 in	30 in	Gray	16Y077	16Y093	16Y102	—
120 in	36 in	Gray	16Y080	16Y096	16Y105	—
Pull-Pin Height-Adjustable Bench, 6,600 lb Capacity						
48 in	30 in	Blue	13E303	13E312	13E321	13E330
60 in	30 in	Blue	13E304	13E313	13E322	13E331
60 in	36 in	Blue	13E308	13E317	13E326	13E335
72 in	30 in	Blue	13E305	13E314	13E323	13E332
72 in	36 in	Blue	13E309	13E318	13E327	13E336
96 in	30 in	Blue	13E306	13E315	13E324	13E333
96 in	36 in	Blue	13E310	13E319	13E328	13E337
120 in	30 in	Blue	13E307	13E316	13E325	13E334
120 in	36 in	Blue	13E311	13E320	13E329	13E338
Fixed Leg, 20,000 lb Capacity						
60 in	30 in	Black, Gray	G4814	G4823	G4805	G4796
60 in	36 in	Black, Gray	G4818	G4827	G4809	G4800
72 in	30 in	Black, Gray	G4815	G4824	G4806	G4797
72 in	36 in	Black, Gray	G4819	G4828	G4810	G4801

	W	D	FORMICA™ PLASTIC LAMINATE Item No.	LISSTAT™ STATIC CONTROL LAMINATE Item No.
Upper Shelf*				
	60 in	12 in	12V547	12V552
	72 in	12 in	12V548	12V553

Description	W	H	Item No.
LED Light Fixtures			
24"L	6 in	2 in	49K954
48"L	6 in	2 in	49K956

Description	W	D	H	▶CHOOSE: Color	Item No.	Pkg. Qty.
Accessories						
36 in Upright Post	2 in	2 in	36 in	Blue, Gray, Black	H6350	1
	2 in	2 in	36 in		H6352	3
	2 in	6 in	36 in		G4834	1
	2 in	10 in	36 in		G4836	3
48 in Upright Post	2 in	2 in	48 in		H6351	1
	2 in	2 in	48 in		H6353	3
	2 in	6 in	48 in		G4835	1
	2 in	10 in	48 in		G4837	3
Pull-Pin Leg Extender	6 in	6 in	8 in		G4838	4
Drawer with Soft Closing Feature	14 ½ in	20 in	2 in		G4839	1
	14 ½ in	20 in	4 in		G4840	1
	14 ½ in	20 in	6 in		G4841	1
	14 ½ in	20 in	12 in		G4842	1
Power Strip, 8 Outlets, 15A	42 in	4 in	2 in		G4843	1
	54 in	4 in	2 in		G4844	1
	66 in	4 in	2 in		G4845	1
	90 in	4 in	2 in		G4846	1
	114 in	4 in	2 in		G4847	1
Bin Rail	60 in	1 ½ in	4 in		G4854 *	1
	72 in	1 ½ in	4 in		G4855 *	1
Roll Holder	60 in	4 in	4 in		G4859 *	1
	72 in	4 in	4 in		G4860 *	1
CPU Holder	17 in	17 in	17 in		G4862	1
Pegboard Backwall	60 in	2 in	14 in		G4865 *	1
	72 in	2 in	14 in		G4866 *	1
Task Light Frame, 45°	60 in	8 in	10 in		G4868	1
	72 in	8 in	10 in		G4869	1
Task Light Frame, 90°	60 in	8 in	6 in		G4873	1
	72 in	8 in	6 in		G4874	1
Tool Balancer	60 in	8 in	6 in		G4878 †	1
	72 in	8 in	6 in		G4879 †	1
Metal Keyboard Tray with Tilt	21 in	—	4 in	Black	33HY60	1
Tool Trolley	3 in	3 ½ in	3 in	Silver	12V569	1

** When ordering Upper Shelf, Bin Rail, Roll Holder, or Pegboard, Upright Post must be ordered additionally. † Tool Balancer includes one Tool Balancer Trolley, for additional Trolley, order 12V569.*

2RNG2

All-Welded Steel Workbenches with Drawers

StrongHold

All workbenches feature a 7-ga. steel top. 2RNG2 and 2RNG3 feature a bottom shelf.

2RNG9 and 2RNH1 feature locking drawers with key locks and a bottom shelf.

W	D	H	Load Cap.*	Item No.
Standard with 2 Drawers				
48 in	30 in	34 in	5,500 lb	**2RNG2**
60 in	36 in	34 in	8,250 lb	**2RNG3**
Standard with 4 Locking Drawers				
48 in	30 in	34 in	5,500 lb	**2RNG9**
60 in	36 in	34 in	8,250 lb	**2RNH1**

** Based on evenly distributed loads.*

16A210

2RNF7

StrongHold · DURHAM MFG Est. 1922 · Jamco Products

All-Welded Steel Workbenches and Work Tables

Gray enamel powder-coated finish.

Strong Hold—Workbenches have 2" x 2" x ¼" steel angle legs and 7-ga. steel top.

Durham—12-ga. lower shelf withstands tough environments; 500-lb. shelf capacity. Rust- and corrosion-resistant finish. Ship fully assembled.

Jamco—Standard Workbenches feature rugged 12 ga. steel top. Include 2" square tubular corner construction with floor pads, lower shelf, half shelf, and 4" back support. Standard Work Tables have flush tops and 3" x 3" x $\frac{3}{16}$" angle corner posts.

W	D	H	Load Cap.*	Item No.
Standard Workbenches				
Strong Hold				
30 in	24 in	34 in	2,750 lb	**2RNF3**
Durham Mfg				
48 in	30 in	34 ¼ in	12,000 lb	**1PE52**
	36 in	34 in	14,000 lb	**4NUR2**
60 in	36 in	34 in	14,000 lb	**4NUR3**
	36 in	34 in	12,000 lb	**4NUR1**
72 in	36 in	34 in	12,000 lb	**1PE53**
	36 in	34 in	14,000 lb	**4NUR4**
Jamco				
48 in	24 in	34 in	3,000 lb	**16A210**
60 in	30 in	34 in	3,000 lb	**16A212**
72 in	30 in	34 in	3,000 lb	**16A213**
	36 in	34 in	3,000 lb	**16A215**
Standard Work Tables				
Jamco				
48 in	36 in	34 in	8,000 lb	**9MKU9**
60 in	36 in	34 in	4,000 lb	**16A255**
	36 in	34 in	8,000 lb	**9WDK8**
	36 in	34 in	12,000 lb	**16A217**
	36 in	34 in	16,000 lb	**9KHD7**
72 in	36 in	34 in	4,000 lb	**16A256**
	36 in	34 in	12,000 lb	**16A218**
	36 in	34 in	16,000 lb	**8A069**
Standard Adjustable Workbenches				
Strong Hold				
30 in	24 in	30 in to 40 in	2,750 lb	**2RNF7**

** Based on evenly distributed loads.*

Bench-in-a-Box
16D756

Technician Station
(Comes with all Accessories as Shown)
2WXU1

PROLINE — THE LEADING EDGE IN MODULAR ERGONOMICS

Adjustable-Height Electronic Workbenches

16D756—Includes lower shelf with dividers, storage shelf with 4" clearance, 60"H uprights, paper spool holder, overhead light, corrugated storage shelf, and bin holder. Also has 120V, 15A power supply. Light gray painted frame.

16D761—Includes 2 lockable drawers, 1 padlock drawer, riser with built-in outlets, footrest, and 90° rolled front edge.

Technician Station Heavy-Duty Workbenches—Include 2 modular drawers with laminate face, personal padlock drawer with hanging kit, riser with 6 pre-wired outlets, and a 90° rolled front edge. ESD laminate benches include a ESD work and shelf surfaces, and a standard ground kit with 2 banana jacks.

D	W	H	Load Capacity	Color	Item No.
Bench-in-a-Box					
ESD Laminate					
30 in	72 in	30 in to 36 in	750 lb	Gray	**16D756**
30 in	72 in	30 in to 36 in	5,000 lb	Blue	**16D761**
Technician Station Heavy-Duty Workbenches					
Laminate					
30 in	72 in	30 in to 36 in	5,000 lb	White	**2MNN3**
36 in	72 in	30 in to 36 in	5,000 lb	White	**2MNN5**
ESD Laminate					
30 in	60 in	30 in to 36 in	5,000 lb	White	**2WXU1**
30 in	72 in	30 in to 36 in	5,000 lb	White	**2MNN4**
36 in	60 in	30 in to 36 in	5,000 lb	White	**2MNN2**
36 in	72 in	30 in to 36 in	5,000 lb	White	**2MNN6**

16A237

All-Welded Steel Workbenches with ½ Riser

Rugged, 12-ga. steel shelves. 2" square tubular corner construction with floor pads. Top shelf has a lip on 3 sides, and lower shelf has a 4" back support. Height with riser is 48".

W	D	H*	Load Cap.†	Item No.
48 in	24 in	34 in	3,000 lb	**16A237**
60 in	24 in	34 in	3,000 lb	**16A238**
60 in	30 in	34 in	3,000 lb	**16A239**
72 in	30 in	34 in	3,000 lb	**16A240**
72 in	36 in	34 in	3,000 lb	**16A242**

** Work surface height. † Based on evenly distributed loads.*

16A315

Stainless Steel Worktables

All-welded steel construction with 16-ga. polished shelves and 1½" corner angles. Flush shelves have a 20" clearance between them. Shelf height: 30". Include prepunched mounting pads.

Includes	W	D	H	Load Cap.*	Item No.
Top, Legs, Lower Shelf	24 in	18 in	30 in	1,200 lb	**16A315**
	30 in	18 in	30 in	1,200 lb	**8VYH1**
	36 in	24 in	30 in	1,200 lb	**8PGF2**
	48 in	24 in	30 in	1,200 lb	**8DPR6**

** Based on evenly distributed loads.*

Worktable w/ Backsplash and Undershelf

Flat Top w/ Tubular Base

Flat Top w/Galvanized Undershelf

Stainless Steel and Steel Worktables

Easily assembled worktables and utility stands feature stainless steel tops with stainless steel or heavy-duty 16-ga. galvanized legs and undershelf. Rolled edges on front and rear, 90° turned down ends allow additional tables to be placed flush to end. 600-lb. capacity, based on evenly distributed loads. All models are compatible with Caster Kit 2KRE5. Gray color. NSF approved.

Description	Type	W (in.)	Load Rating (lb.)*	Item No.
Accessories				
Worktable Caster Kit	4 in dia	1 in	200 lb	**2KRE5**

** Based on evenly distributed loads.*

Includes	D	H	24 IN WIDE Item No.	30 IN WIDE Item No.	36 IN WIDE Item No.	48 IN WIDE Item No.	60 IN WIDE Item No.	72 IN WIDE Item No.
Worktables, All Stainless Steel								
Backsplash and Undershelf	30 in	34 ½ in	—	—	—	**4UEJ9**	**4UEK1**	**4UEK2**
Flat Top and Tubular Base	30 in	34 ½ in	—	—	—	**4UEJ3**	**4UEJ4**	**4UEJ5**
Flat Top and Undershelf	30 in	34 ½ in	—	—	—	**4UEJ6**	**4UEJ7**	**4UEJ8**
Worktables, Stainless Steel Top								
Backsplash and Galvanized Undershelf	30 in	34 ½ in	—	—	—	**2KRD6**	—	**2KRD7**
Flat Top and Galvanized Tubular Base	30 in	34 ½ in	—	—	—	**2KRE1**	**4UEK3**	**2KRE2**
Flat Top and Galvanized Undershelf	24 in	24 in	**2KRE3**	—	—	—	—	—
	24 in	34 ½ in	**2KRE6**	—	—	**2KRE7**	—	**2KRE8**
	30 in	24 in	—	**2KRE4**	**4UEL2**	—	—	—
	30 in	34 ½ in	—	—	—	**2KRD8**	**4UEK4**	**2KRD9**

All Steel Workbenches with Stainless Steel Tops

All-welded workbenches with 7-ga. top and 12-ga. bottom shelf are designed to withstand heavy manufacturing, assembly, and maintenance work. Legs are 2" x 2" x ¼" steel angle. Models are available with drawers that are 14-ga. steel and have a 400-lb. capacity, based on evenly distributed loads. Adjustable-Leg models adjust from 30" to 40"H. Ship fully assembled.

Includes	W	D	H	Load Cap.*	Item No.
Fixed-Leg					
Top, Legs and Lower Shelf	30 in	24 in	34 in	2,750 lb	**4NWD1**
	48 in	30 in	34 in	5,500 lb	**4NWD2**
	60 in	36 in	34 in	8,250 lb	**4NWD3**
	72 in	36 in	34 in	10,000 lb	**4NWD4**
Top, Legs, Lower Shelf, and 2 Drawers	60 in	36 in	34 in	8,250 lb	**4NWE9**
	72 in	36 in	34 in	10,000 lb	**4NWF1**
Top, Legs, Lower Shelf, Riser Shelf and 6 Drawers	72 in	36 in	46 in	10,000 lb	**4NWH2**
Top, Legs, Lower Shelf, 4 Locking Drawers and 4 Keys	48 in	30 in	34 in	5,500 lb	**4NWH9**
	60 in	36 in	34 in	8,250 lb	**4NWJ1**
	72 in	36 in	34 in	10,000 lb	**4NWJ2**
Adjustable-Leg					
Top, Legs and Lower Shelf	30 in	24 in	30 in to 40 in	2,750 lb	**4NWK3**
	72 in	36 in	30 in to 40 in	10,000 lb	**4NWK6**

** Based on evenly distributed loads.*

4NWD4

4NWH2

22NE51

9R530

22ND72

22ND73

Steel Work/Machine Tables

DURHAM MFG Est. 1922 · Jamco carts

- Ship assembled

Durham—Ideal as a workspace for machines and other items that require a sturdy table with a high load rating.

Jamco—Heavy-duty tables are all-welded construction with durable, flush-mounted, 12-ga. shelves. 1½" x 3⁄16"-thick angle corner posts.

W	D	H	Load Capacity	Item No.
No Shelf				
Durham Mfg				
24 in	18 in	18 in	2,000 lb	22ND70
	18 in	24 in	2,000 lb	22ND74
	18 in	30 in	2,000 lb	22ND76
	18 in	36 in	2,000 lb	22ND78
	18 in	42 in	2,000 lb	22ND80
36 in	24 in	18 in	2,000 lb	22ND82
	24 in	24 in	2,000 lb	22ND84
	24 in	30 in	2,000 lb	22ND88
	24 in	36 in	2,000 lb	22ND90
	24 in	42 in	2,000 lb	22ND92
48 in	24 in	18 in	2,000 lb	22ND94
	24 in	24 in	2,000 lb	22ND96
	24 in	30 in	2,000 lb	22ND99
	24 in	36 in	2,000 lb	22NE02
	24 in	42 in	2,000 lb	22NE05
	36 in	24 in	14,000 lb	22NE51
	36 in	30 in	14,000 lb	22NE52
	36 in	34 in	14,000 lb	22NE53
60 in	36 in	24 in	14,000 lb	22NE54
	36 in	30 in	14,000 lb	22NE55
	36 in	34 in	14,000 lb	22NE56
72 in	36 in	24 in	14,000 lb	22NE57
	36 in	30 in	14,000 lb	22NE58
	36 in	34 in	14,000 lb	22NE59
1-Shelf				
Jamco				
24 in	18 in	30 in	2,000 lb	9R530
	24 in	30 in	2,000 lb	8DRG2
30 in	18 in	30 in	2,000 lb	8VZZ4
	24 in	30 in	2,000 lb	16A274
36 in	18 in	30 in	2,000 lb	8RP01
	24 in	30 in	2,000 lb	8RHF1
	30 in	30 in	2,000 lb	16A277
48 in	24 in	30 in	2,000 lb	8DUK7
60 in	30 in	30 in	2,000 lb	16A279

W	D	H	Load Capacity	Item No.
Durham Mfg				
36 in	18 in	30 in	2,000 lb	22ND71
	24 in	30 in	2,000 lb	22ND86
48 in	24 in	30 in	2,000 lb	22ND98
	24 in	36 in	3,000 lb	22NE04
	30 in	36 in	3,000 lb	22NE08
	36 in	36 in	3,000 lb	22NE09
60 in	24 in	30 in	2,000 lb	22NE07
72 in	36 in	36 in	3,000 lb	22NE10
2-Shelf				
Jamco				
24 in	18 in	32 in	2,000 lb	16A287
	24 in	32 in	2,000 lb	16A291
30 in	18 in	32 in	2,000 lb	16A288
36 in	18 in	32 in	2,000 lb	16A289
	24 in	32 in	2,000 lb	16A293
48 in	24 in	32 in	2,000 lb	16A294
60 in	30 in	32 in	2,000 lb	16A298
Durham Mfg				
36 in	18 in	30 in	2,000 lb	22ND72
	24 in	30 in	2,000 lb	22ND87
1-Drawer				
Durham Mfg				
24 in	18 in	18 in	2,000 lb	22ND73
	18 in	24 in	2,000 lb	22ND75
	18 in	30 in	2,000 lb	22ND77
	18 in	36 in	2,000 lb	22ND79
	18 in	42 in	2,000 lb	22ND81
36 in	24 in	18 in	2,000 lb	22ND83
	24 in	24 in	2,000 lb	22ND85
	24 in	30 in	2,000 lb	22ND89
	24 in	36 in	2,000 lb	22ND91
	24 in	42 in	2,000 lb	22ND93
48 in	24 in	18 in	2,000 lb	22ND95
	24 in	24 in	2,000 lb	22ND97
	24 in	30 in	2,000 lb	22NE01
	24 in	36 in	2,000 lb	22NE03
	24 in	42 in	2,000 lb	22NE06

1W973

edsal

Adjustable-Height Steel Work/Machine Tables

- Gray powder-coated finish
- Load capacity: 1500 lb., based on evenly distributed loads
- Ship unassembled

Ideal for use with drill presses, arbor presses, lathes, and benchtop sanders/grinders; provide additional work and storage space. Leg flange on bottom prevents floor surface from being cut. Sturdy, 16-ga. steel top shelf. Full-depth lower shelf provides additional storage and added rigidity.

W	D	H	Item No.
24 in	18 in	18 in to 24 in	4GHW9
	18 in	30 in to 36 in	1W973
30 in	24 in	18 in to 24 in	4GHP3
	24 in	30 in to 36 in	4GHP5
36 in	24 in	18 in to 24 in	4GHX1
	24 in	30 in to 36 in	1W975
48 in	24 in	18 in to 24 in	4GHP4
	24 in	30 in to 36 in	4GHP6

Work Surface System

System creates a customized workstation suited for specific requirements which can be adjusted as needs change. Constructed of 16-ga., 304 brushed stainless steel with chrome base. All models, except accessories, are NSF Approved.

WORKTABLES

Worktables have four 33" posts.

WORKTABLES WITH CANTILEVERED OVERHEAD SYSTEM

Come with two 33" front posts, two 63" rear posts, and 2 overhead shelves. Order additional cantilever shelves separately.

4UEN4

Description	D	H	Load Capacity	48 IN WIDE Item No.	60 IN WIDE Item No.
Worktables					
2 C-Frame Bases	30 in	34 ½ in	600 lb	4UEL3	4UEL4
1 C-Frame Base and 1 Wire Shelf	30 in	34 ½ in	600 lb	4UEL5	4UEL6
2 Wire Shelves	30 in	34 ½ in	600 lb	4UEL7	4UEL8
1 H-Frame Base and 1 Wire Shelf	30 in	34 ½ in	600 lb	4UEL9	4UEN1
Worktables with Cantilevered Overhead System					
2 C-Frame Bases	30 in	63 in	600 lb	4UEN2	4UEN3
1 C-Frame Base and 1 Wire Shelf	30 in	63 in	600 lb	4UEN4	4UEN5

5HZP8 (Contents not included.)

5HZR2

StrongHold

Workbench Cabinets

12-ga. steel cabinets come fully assembled. Units are lockable with a 3-pt. locking system that accommodates a padlock (not included). Benches with drawers have a weight capacity of 400 lb. per drawer, based on evenly distributed loads.

Top Material	W	D	H	Item No.
Multi-Compartments				
Butcher Block	48 in	36 in	37 in	5HZP1
	50 in	30 in	34 in	5HZP7 *
	60 in	36 in	37 in	5HZP2
	72 in	36 in	37 in	5HZP3
	84 in	36 in	37 in	5HZP4
	96 in	36 in	37 in	5HZP5
	108 in	36 in	37 in	5HZP6
Steel	84 in	30 in	34 in	5HZN8
	96 in	30 in	34 in	5HZN9
	108 in	30 in	34 in	5HZP0

** Includes 2 drawers.*

Top Material	W	D	H	Item No.
With 12"H Riser				
Steel	60 in	30 in	46 in	5HZP8
	72 in	30 in	46 in	5HZP9
With 2 Upper Compartments				
Steel	72 in	30 in	62 in	5HZR0
	84 in	30 in	62 in	5HZR1
Bi-Fold Doors, 1-Shelf				
Butcher Block	48 in	36 in	37 in	10A010
	72 in	36 in	37 in	10A011
	84 in	36 in	37 in	10A012
With Pegboard, 12 Bins and Outlet Strip				
Steel	72 in	30 in	72 in	5HZR2

1PB34

DURHAM MFG Est. 1922

Adjustable-Height Folding-Leg Steel Workbench

- 2000-lb. capacity, based on evenly distributed loads
- Gray powder-coated finish is acid- and rust-resistant

Sturdy workbenches have hinged legs that fold away for simple, convenient storage. All-steel welded construction. Work surface height adjusts in 1" increments.

W	D	H	STEEL Item No.	PARTICLEBOARD Item No.
60 in	30 in	28 in to 42 in	4NUR5	—
72 in	30 in	28 in to 42 in	1PB34	4NUR9
	36 in	28 in to 42 in	1PB28	1PB45
96 in	30 in	28 in to 42 in	1PB37	4NUU1
	36 in	28 in to 42 in	1PB31	1PB48
	48 in	28 in to 42 in	4NUR7	4NUU3
120 in	30 in	28 in to 42 in	—	4NUR8
	36 in	28 in to 42 in	4NUR6	—
	48 in	28 in to 42 in	1PB41	4NUU2

34AU94

34AU98

34AW20

LITTLE GIANT

Cabinet Workbenches

- Heavy-duty, all-welded steel construction
- Powder-coated steel worksurface
- Choose butcher block or hardboard top on cabinet with shelf

All cabinets with drawers and no shelves have a fixed 34"H and locking handles. Cabinets with single shelf have an adjustable height and leg levelers.

Top Material	W	D	H	Cabinet Door Type	Item No.
Cabinet Benches without Shelves					
Steel	48 in	30 in	34 in	Standard	34AW12
	60 in	30 in	34 in	Standard	34AW13
	72 in	30 in	34 in	Standard	34AW14
	72 in	36 in	34 in	Standard	34AW15
Cabinet Benches with 1 Shelf					
Butcher Block	48 in	24 in	41 in to 44 in	Standard	34AU94
	48 in	24 in	41 in to 44 in	Ventilated	34AU97
Hardboard	48 in	24 in	41 in to 44 in	Standard	34AU95
	48 in	24 in	41 in to 44 in	Ventilated	34AU98
Cabinet Benches with 1 Drawer					
Steel	48 in	30 in	34 in	Standard	34AW16
	60 in	30 in	34 in	Standard	34AW17
	72 in	30 in	34 in	Standard	34AW18
	72 in	36 in	34 in	Standard	34AW19
Cabinet Benches with 2 Drawers					
Steel	72 in	30 in	34 in	Standard	34AW20
	72 in	36 in	34 in	Standard	34AW21

Cabinet Base 7D223 (Contents not included.)

Open Base 422W89

GMI Greene Manufacturing, Inc.

Stationary Shop Desks w/Hutch

- Locking drawer with recessed pull
- Durable powder-coated finish

These desks consist of a hutch mounted on top of a desk or storage cabinet. The hutch and the base provide shelf storage for large items. Doors conceal and protect contents. The desks also have a writing surface and a drawer that keeps pens and other loose items contained. Stationary shop desks are suitable for areas where they will not be moved often.

Description	Overall Dim. W	D	H	Frame Assembled	Brand	Item No.
Closed Cabinet Base	31 ½ in	21 in	72 ½ in	Assembled	—	**7D223**
Open Base	32 in	24 in	72 in	Unassembled	Greene Manufacturing, Inc.	**422W89**

Steel Workstand

Sturdy workstand tilts from 10° to 35° and can hold up to 100 lb. Height adjusts from 56" to 64".

Lip Height	W	D	Item No.
5⁄16 in	23 in	23 ½ in	**49JK63**

Storage Cabinet K3829

Table Cabinet 1UBK8

Cabinet w/ Vise Support, 4 Drawers 6RHH9

Cabinet w/ Vise Support, Double Door 6RHH8

DURHAM MFG Est. 1922

Table Cabinets

Description	Width	Depth	Height	Cabinet Color	Item No.
Storage Cabinets					
Single Door	19 in	24 in	30 in	Black, Light Gray, Medium Gray, Putty, Sand	**K3829**
Single Door	24 in	24 in	34 ½ in	Gray	**1UBK7** *
Table Cabinets					
Double Door	36 in	24 in	33 ⅝ in	Gray	**1UBK8** *
Table Cabinets with Vise Support					
Single Door, 4 Drawers	48 in	24 in	36 ¼ in	Gray	**6RHH9** *
Single Door, 5 Drawers	48 in	24 in	38 ¼ in	Gray	**6RHJ0** *
Double Door	48 in	24 in	34 in	Gray	**6RHH8** *

Ships assembled.

39FT06

tennsco Storage Made Easy

Open Shelving

- Ship assembled

Freestanding shelving built with premium-quality steel. Shelves are easy to adjust in 2" increments without tools. Integrated tabs secure shelves tightly. Back is ventilated with punched lances.

Overall Depth	Overall Width	Overall Height	Shelf Cap.	Color	Item No.
24 in	36 in	42 in	200 lb	Gray	**39FT06**
				Medium Gray	**39FT07**

Lockable Shop Desks

OPEN SHOP DESKS

8CFK6—14-ga. steel riser with compartments. Free standing desk w/ lockable drawer. Includes a bottom shelf for extra storage or as a footrest. Fully progressive ball bearing suspension. Shipped partially assembled.

1W907—Steel sloping top is 43"H at front. Features single level riser and bottom shelf. 5° sloped writing surface. Shipped unassembled.

4TX91—Steel desk features a dual riser, leg levelers, and legs with rolled edges for strength and rigidity. Sloping top is 42½"H at front. Open desk has lower shelf for footrest or extra storage space. 6° sloped writing surface. Shipped unassembled.

CABINET SHOP DESKS

422W92—Angled steel writing surface has a storage drawer below with ball bearing glides. Rear organizer shelf has multiple organizational compartments. Cylinder style locks are keyed alike. Shipped assembled.

422W97—Welded-on door hinges have a secure 3-pt. locking system with padlock hasp. Includes adjustable-height shelf inside the lower right storage compartment and convenient rear organizer shelf. Open compartment on lower left has pull-out shelf. Angled steel writing surface. Drawer easily opens on ball bearing glides and has padlock hasp. Shipped assembled.

422W93—Includes adjustable-height shelf inside the lower storage compartment, convenient rear organizer shelf, and 5" caster kit (2 swivel/locking and 2 fixed). Features welded-on door hinges with a secure 3-pt. locking system and angled steel writing surface. Drawer opens on ball bearing glides and has padlock hasp for locking. Shipped assembled.

422W90—Includes a rear organizer shelf for papers and forms and an adjustable-height shelf inside the lower storage compartment. Welded-on door hinges have a secure 3-pt. locking door system and padlock hasp. Angled writing surface. Drawer features ball bearing glides and padlock hasp. Shipped assembled.

9TCF7—Free standing desk w/ lockable drawer and cabinet. Adjustable shelves allow you to modify the storage space to fit your needs. Bottom cabinet features a 3-pt. locking system to secure items. Drawer glides easily on fully progressive, ball bearing suspension. Shipped partially assembled.

1W908—Cabinet includes "T" handle and built-in lock with 2 keys. 32"W x 28"D inside. 20-ga. steel top; single level riser. 5° sloped writing surface. Shipped unassembled.

4TX92—Enclosed lower storage cabinet has adjustable lower shelf and 3-pt. locking door. 18-ga. steel top. 6° sloped writing surface. Shipped unassembled.

COMBINATION SHOP DESKS

1PB42—Includes 2 lockable storage drawers and 2 lockable file drawers. Recessed-handle drawers operate smoothly on ball-bearing slides. Level writing surface is 42" above the floor.

4W345—Desk includes level writing surface, 8-compartment dual riser/sorter, box drawer, 2 double-deep file drawers with knockouts for cylinder locks, 1 tray drawer with cylinder lock and 2 keys, and lower shelf/footrest. Shipped partially assembled.

422W96—Features flat steel writing surface with lower drawer storage. Drawers are mounted on ball bearing glides. Rear organizer shelf has multiple compartments. Cylinder style locks are keyed alike. Lower foot rest shelf. Shipped unassembled.

WALL-MOUNTED SHOP DESKS

1W952—Adds storage and saves floor space. Wall mounting bracket included. 5° sloped writing surface. Shipped unassembled.

8CFK7—Mounts to the wall to provide a convenient work surface in areas where floor space is limited. Lockable drawer glides easily on fully progressive ball bearing suspension. Shipped partially assembled.

MOBILE SHOP DESK

422X01—Features an angled steel writing surface with locking drawer storage below and open base design. Drawer mounted on ball bearing glides. Includes 4" locking casters and a rear organizer above work surface. Shipped unassembled.

1PB38—Has a 10° sloped work surface with pencil rest and includes 2 lockable drawers and 1 lockable storage cabinet with 2 sections. Center shelf is welded in place. Four 3" swivel casters. 500-lb. capacity, based on evenly distributed loads.

4TX91

9TCF7

1PB42

422X01

1PB38

Overall Dim. W	D	H	Color	Brand	Item No.
Open Shop Desks					
34 ½ in	29 in	53 in	Gray	Tennsco	**8CFK6**
34 ½ in	30 in	53 in	Gray	—	**1W907** †
34 in	30 ¼ in	55 ½ in	Beige	—	**4TX91**
Cabinet Shop Desks					
36 in	29 in	54 in	Gray	Greene Mfg.	**422W92**
36 in	28 in	54 in	Gray	Greene Mfg.	**422W97**
36 in	28 in	54 in	Gray	Greene Mfg.	**422W93**
36 in	28 in	54 in	Gray	Greene Mfg.	**422W90**
34 ½ in	29 in	53 in	Gray	Tennsco	**9TCF7**
34 ½ in	30 in	52 ⅜ in	Gray	—	**1W908** †
34 in	30 ¼ in	53 in	Beige	—	**4TX92**

Overall Dim. W	D	H	Color	Brand	Item No.
Combination Shop Desks					
29 in	39 in	52 ⅞ in	Gray	Durham Mfg	**1PB42**
39 in	29 in	56 in	Gray	—	**4W345** †
36 in	31 in	54 in	Gray	Greene Mfg.	**422W96**
Wall-Mounted Shop Desks					
34 ½ in	30 in	37 ½ in	—	—	**1W952** *
34 ½ in	29 in	17 ½ in	—	Tennsco	**8CFK7**
Mobile Shop Desks					
24 in	20 in	52 in	—	Greene Mfg.	**422X01**
23 in	20 ¼ in	48 in	Gray	Durham Mfg	**1PB38**

** Height from bottom of bracket to top of desk. † Height from floor to top of work surface.*

Scan. Order. Done.
Details on page A1.

462D19

460X53

462D22

462D23

462D24

462D18

462D21

462D20

462D25

Computer Security Cabinets

- All except 462D19 include locks
- 462D25 ships fully assembled

Steel computer cabinets provide a protective workstation and storage for computers and monitors. Mobile units roll on 5" casters. Powder-coated finish. Vented back.

Overall Width	Overall Depth	Overall Height	No. of Shelves	No. of Drawers	Includes Keyboard Tray	Cabinet Color	Item No.
Computer Enclosure							
35 in	24 ⅛ in	62 in	2	1	Yes	Light Gray	**462D19**
LCD Monitor Cabinet							
24 ½ in	22 ½ in	29 ½ in	Not Applicable	1	No	Blue	**460X53**
Mobile Computer Cabinets							
24 ½ in	22 ½ in	62 ¾ in	1	1	No	Light Gray	**462D22**
24 ½ in	22 ½ in	62 ¾ in	1	1	No	Black	**462D23**
24 ½ in	22 ½ in	62 ¾ in	1	1	No	Blue	**462D24**
27 in	24 in	49 ¾ in	1	0	Yes	Blue	**462D18**
27 in	24 in	49 ¾ in	1	0	Yes	Gray	**462D21**
30 in	30 in	70 in	1	0	Yes	Blue	**462D20**
Laptop Security Cabinet							
20 ⅝ in	5 ¼ in	19 ⅛ in	Not Applicable	0	No	Gray	**462D25**

Square Seat
8CV36

Round Seat, Swivel
453D91

National Public Seating

General Purpose Shop Stools

Stationary shop stools will not roll during use. Includes a footring for user comfort.

Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Seat Material	Base Color	Adjustable Seat Height	Brand	Item No.
Non-Swivel								
Round Seat								
14 in	18 in	18 in	18 in	Masonite	Gray	No	NPS	**8TRV5**
		18 in	18 in	Vinyl	Gray	No	NPS	**8XDF3**
		19 in	27 in	Masonite	Black	Yes	NPS	**20HW56**
	19 in	18 in	18 in	Masonite	Black	No	NPS	**20HW54**
		19 in	27 in	Vinyl	Gray	Yes	NPS	**9KAW2**
	24 in	24 in	24 in	Masonite	Gray	No	—	**44N706**
		24 in	24 in	Masonite	Black	No	NPS	**20HW55**
		24 in	24 in	Vinyl	Gray	No	NPS	**9HZA2**
		24 in	24 in	Masonite	Gray	No	NPS	**9RZR7**
	25 in	25 in	33 in	Masonite	Black	Yes	NPS	**20HW57**
		25 in	33 in	Masonite	Gray	Yes	NPS	**3LLV9**
		25 in	33 in	Vinyl	Gray	Yes	NPS	**9WZZ2**
	30 in	30 in	30 in	Vinyl	Gray	No	NPS	**8CV72**
		30 in	30 in	Masonite	Gray	No	NPS	**9AE90**
		30 in	30 in	Masonite	Gray	No	—	**44N707**
	31 ½ in	32 in	39 in	Masonite	Gray	Yes	NPS	**9J007**
	31 in	19 in	27 in	Masonite	Gray	Yes	NPS	**8VZX4**
		32 in	39 in	Vinyl	Gray	Yes	NPS	**9AEL6**
Square Seat								
14 in	17 ½ in	18 in	18 in	Masonite	Gray	No	NPS	**8CV36**
	18 in	19 in	27 in	Masonite	Gray	Yes	NPS	**9CUK1**
15 in	24 in	24 in	24 in	Masonite	Gray	No	NPS	**8D271**
		25 in	33 in	Masonite	Gray	Yes	NPS	**9T067**
16 ½ in	30 in	30 in	30 in	Masonite	Gray	No	NPS	**9T066**
		32 in	39 in	Masonite	Gray	Yes	NPS	**8D273**
Swivel								
Round Seat								
13 ½ in	29 in	29 in	29 in	Vinyl	Chrome	No	—	**453D91**

National Public Seating

Stationary Shop Stools with Backrest

Non-swivel stationary shop stools will not turn or roll during use. Stools include a backrest and footring for user comfort.

5NWH3

8ZDK3

Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Seat Material	Base Color	Adjustable Seat Height	Brand	Item No.
Non-Swivel								
Round Seat								
14 in	30 ¾ in	18 in	27 in	Masonite	Black	Yes	—	**5NWH3**
	31 in	18 in	18 in	Masonite	Gray	No	NPS	**8DA83**
		18 in	18 in	Vinyl	Gray	No	NPS	**8TNU6**
	32 in	18 in	18 in	Masonite	Black	No	NPS	**35JG60**
		19 in	27 in	Masonite	Gray	Yes	NPS	**8UKG1**
		19 in	27 in	Masonite	Black	Yes	NPS	**35JG62**
		19 in	27 in	Vinyl	Gray	Yes	NPS	**8ZDK3**
	36 in	24 in	33 in	Padded	Black	Yes	—	**5NWH4**
	37 in	24 in	24 in	Masonite	Gray	No	NPS	**8ZFK3**
		24 in	24 in	Vinyl	Gray	No	NPS	**9AEL7**
		24 in	24 in	Masonite	Black	No	NPS	**35JG61**
		24 in	33 in	Masonite	Black	Yes	—	**5NWH5**
	38 in	25 in	33 in	Masonite	Gray	Yes	NPS	**8CV69**
		25 in	33 in	Vinyl	Gray	Yes	NPS	**9F713**
		25 in	33 in	Masonite	Black	Yes	NPS	**35JG63**
	43 in	30 in	30 in	Masonite	Gray	No	NPS	**8CV68**
		30 in	30 in	Vinyl	Gray	No	NPS	**8CV34**
	44 in	32 in	39 in	Masonite	Gray	Yes	NPS	**8CV70**
		32 in	39 in	Vinyl	Gray	Yes	NPS	**8CV35**
Square Seat								
14 in	31 in	18 in	18 in	Masonite	Gray	No	NPS	**8D275**
	32 in	19 in	27 in	Masonite	Gray	Yes	NPS	**8PPL3**
15 in	36 ⅝ in	24 in	32 in	Plywood	Black	Yes	—	**5NWH7**
	37 in	24 in	24 in	Masonite	Gray	No	NPS	**8RNU3**
	38 in	25 in	33 in	Masonite	Gray	Yes	NPS	**9G514**
16 ½ in	43 in	30 in	30 in	Masonite	Gray	No	NPS	**8RNU4**
	44 in	32 in	39 in	Masonite	Gray	Yes	NPS	**9KEE6**
Swivel								
Round Seat								
14 in	34 ½ in	24 in	28 in	Padded	Black	Yes	—	**5NWH8**
	39 in	24 in	30 in	Vinyl	Gray	Yes	NPS	**9CU75**
Square Seat								
15 in	31 ½ in	18 ⅝ in	23 ¼ in	Plywood	Black	Yes	—	**5NWH9**
15 ½ in	40 ¼ in	27 ⅝ in	32 ¼ in	Padded	Gray	Yes	—	**44N715**

Swivel Mobile Shop Stools

BEVCO

- Pneumatic seat height adjustment
- Round polyurethane seat

5-star base features casters that allow the stool to roll. **Ergonomic stools** have memory foam seats that provide more comfort than standard hard stool seats when sitting for long periods of time.

Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Base Color	Seat Color	Includes Footring	Backrest	Item No.
Ergonomic Stools								
14 ½ in	21 ¼ in	16 ¼ in	21 ¼ in	Black	—	No	No	**45HL53**
	22 ½ in	16 in	21 ½ in	Gray	Gray	Yes	Yes	**48KR72**
		16 in	21 ½ in	Black	Black	Yes	Yes	**48KR62**
	23 in	18 in	22 ½ in	Black	—	No	No	**45HL41**
		18 in	22 ½ in	Black	Gray	Yes	Yes	**48KR71**
		18 in	22 ½ in	Black	Black	Yes	Yes	**48KR61**
	26 in	20 ½ in	25 ½ in	Black	Gray	Yes	Yes	**48KR73**
		20 ½ in	25 ½ in	Chrome	Gray	Yes	Yes	**48KR74**
		20 ½ in	25 ½ in	Chrome	Black	Yes	Yes	**48KR64**
		20 ½ in	25 ½ in	Black	Black	Yes	Yes	**48KR63**
	28 in	20 ½ in	27 ¾ in	Gray	Gray	Yes	Yes	**48KR76**
		20 ½ in	27 ¾ in	Black	Black	Yes	Yes	**48KR66**
	29 in	21 in	28 ¼ in	Black	Gray	Yes	Yes	**48KR75**
		21 in	28 ¼ in	Black	Black	Yes	Yes	**48KR65**
	31 in	25 ¼ in	30 ¼ in	Chrome	Gray	Yes	Yes	**48KR80**
		25 ¼ in	30 ¼ in	Chrome	Black	Yes	Yes	**48KR70**
		25 ¼ in	30 ¼ in	Black	Gray	Yes	Yes	**48KR79**
		25 ¼ in	30 ¼ in	Black	Black	Yes	Yes	**48KR69**
	33 ½ in	23 ½ in	33 ½ in	Gray	Gray	Yes	Yes	**48KR78**
		23 ½ in	33 ½ in	Black	Black	Yes	Yes	**48KR68**
	35 in	24 in	34 in	Black	—	No	No	**415Y54**
		24 in	34 in	Black	Gray	Yes	Yes	**48KR77**
		24 in	34 in	Black	Black	Yes	Yes	**48KR67**
General Purpose Stools								
14 in	21 in	15 in	20 in	Black	—	No	No	**3LLW3**
	27 in	19 ½ in	27 in	Black	—	No	No	**3LLW4**
	33 in	22 in	32 in	Black	—	No	No	**36P848**

Ergonomic w/Backrest
48KR78

General Purpose
3LLW3

48RH34

45EK85

ShopSol WORKPLACE SOLUTIONS · SUMNER A Southwire Company

Welding Mobile Shop Stools

- 14"-dia. seat

Welding shop stools are made from materials that resist burning or deforming when exposed to spatter and heat during welding processes. Swivel stools let users turn while seated.

Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Seat Material	Base Color	Seat Adjustment Type	Built-In Tool Tray	Brand	Item No.
14 in	21 in	15 ½ in	20 ½ in	Polyurethane	Black	Pneumatic Lever	Yes	Shopsol	**48RH34**
	22 in	15 in	22 in	Steel	Green	Manual	No	Sumner	**45EK85**
	26 ¾ in	19 in	26 in	Polyurethane	Black	Pneumatic Lever	Yes	Shopsol	**48RH35**

Round Seat
503Y24

Round Seat
36R554

Square Seat
6LVY5

BEVCO · DEWALT · Milagon A Division of NSS Enterprises, Inc.

Low-Profile Mechanics' Mobile Shop Stools

Mechanics shop stools are less tall than other types of shop stools, and they allow workers to sit while making repairs on cars, machines, and other industrial equipment. Also known as maintenance repair stools and tool trolley stools, they have built-in storage for tools. These mobile shop stools have casters that allow them to roll when users need to move the stool. Seats adjust using a pneumatic lever.

Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Seat Material	Base Color	Brand	Item No.
Round Seat							
14 in	20 in	18 in	22 ½ in	Polyurethane	Black	Bevco	**8PJ77**
	27 in	20 in	27 in	Polyurethane	Black	Bevco	**3LLW2**
15 ½ in	23 ½ in	22 ½ in	26 ¾ in	Vinyl	Black; Yellow	DeWalt	**503Y24**
16 in	20 ½	15 ½ in	20 ½ in	Polyurethane	Black	Bevco	**3LLW1**
	22 ½ in	18 in	22 ½ in	Fabric	Black	Bevco	**36R554**
Square Seat							
14 in	12 in	12 in	17 in	Polyurethane	Black	Milagon	**6LVY5**

488V02

ESD Static Control Pneumatic Stools

Electrostatic discharge stools help protect workers from static discharge and environmental pollutants while providing comfortable seating. They are commonly found in labs and work areas with chemicals or sensitive electronic components, such as bioscience, pharmaceutical, and computer applications. These backless stools have pneumatic seats that adjust to an optimal working height. Polyurethane seat with cast aluminum base.

Seat Depth	Seat Height Range	Seat Width	Item No.
Without Footring			
14 in	17 in to 22 in	17 in	**488V02**
	17 ½ in to 22 ½ in	17 in	**488V01**
	20 in to 27 ½ in	17 in	**488U98**
	20 in to 28 in	17 in	**488U96**
	23 in to 33 ½ in	17 in	**488U95**
With Footring			
14 in	20 in to 28 in	17 in	**488U97**
	20 in to 27 ½ in	17 in	**488U99**

Without Backrest
6XJZ8

With Backrest
6XKA0

National Public Seating

Stackable Stationary Shop Stools

- Square polypropylene seat
- Chrome sled-base legs

These shop stools can be stacked when not in use to save space when storing the stools. Non-swivel stationary stools will not turn or roll during use.

Seat Width/Diameter	Overall Height	Maximum Seat Height	Item No.
Without Backrest			
16 ¾ in	18 in	18 in	**6XJZ6**
	22 in	22 in	**6XJZ7**
	24 in	24 in	**6XJZ8**
With Backrest			
16 ¾ in	31 ¾ in	18 in	**6XJZ9**
	35 in	22 in	**6XKA0**
	36 ¾ in	24 in	**6XKA1**

BEVCO Milagon® A Division of NSS Enterprises, Inc.

Sit/Stand Stationary Shop Stools

- Polyurethane seat

Sit/stand shop stools allow workers to perch while standing, which helps take some weight off the workers' feet. Also known as perch stools, they provide short periods of relief for workers who stand for most of their work day. These stationary stools will not roll during use.

Backrest	Seat Width/ Diameter	Overall Height	Minimum Seat Height	Maximum Seat Height	Brand	Item No.
Round Seat						
No	14 in	32 in	22 in	32 in	Bevco	**4FE65**
Square Seat						
Yes	15 ½ in	24 in	26 in	34 in	Milagon	**6LVY3**

BEVCO ECOMseating

Cleanroom Task Chairs

- Weight capacity: 300 lb.
- Meet ANSI/BIFMA Standards

Class 1000 cleanroom stools are ideal for effective contamination control. Feature vinyl-covered 2½"-thick cushions, pneumatic seat height adjustment, 360° swivel, adjustable back with lumbar support, and sturdy 5-legged base with mushroom glides.

Material	Seat Height Range	Seat Width	Color	Cleanroom Class	Brand	Item No.
Cleanroom Pneumatic Task Chairs						
w/Glides						
Polyurethane	15 in to 20 in	18 ½ in	Black	Class 10 (ISO 4)	Bevco	**36R224**
	19 in to 26½ in	18 ½ in	Black	Class 10 (ISO 4)	Bevco	**36R250** *
	21 in to 31 in	18 ½ in	Black	Class 10 (ISO 4)	Bevco	**36R259** *
Vinyl (Antibacterial)	15½ in to 21 in	20 in	Blue	Class 10,000 (ISO 7)	Bevco	**36R405**
w/Casters						
Vinyl (Antibacterial)	25¾ in to 35½ in	18 ½ in	Black	Class 10 (ISO 4)	Blue Ridge Ergonomics	**376N53**
	21½ in to 29 in	18 ½ in	Black	Class 10 (ISO 4)	Blue Ridge Ergonomics	**376M60**
ESD/Cleanroom Task Chairs w/Glides						
Vinyl (Antibacterial)	22 in to 32 in	20 in	Blue	Class 1000 (ISO 6)	Bevco	**53YJ62** *‡
ESD Backless Pneumatic Stools w/Casters						
Vinyl	17 ½ in to 22 ¼ in	17 in	Black	—	Blue Ridge Ergonomics	**356D41**
	17 ½ in to 22 ¼ in	17 in	Colonial Blue	—	Blue Ridge Ergonomics	**356D43**
	24 ½ in to 34 ½ in	17 in	Black	—	Blue Ridge Ergonomics	**356J13**
Accessories						
Friction-Ring Stem Caster Kit, Pkg. of 5					Bevco	**1RL21** †
ESD/Cleanroom Stool Footring, 18 in"-dia.					Bevco	**415Y50**

Includes 18" adjustable chrome footring. † For use with 5-star base. ‡ Feature seats that tilt forward and backward 6°; backs tilt forward 11°, backward 15°.

BEVCO cramer

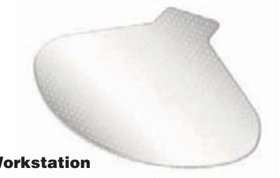
Ergonomic Task Chairs with Casters

Nominal Seat Height Range	Seat Size Width	Seat Size Depth	Back Size Width	Back Size Height	Color	Caster Type	Brand	Item No.
Fabric Seat Material								
17 in to 22 in	18 in	18 in	16 in	15 in	Black	Hard Floor	Bevco	**G6692**
18 in to 22 in	20 ¾ in	20 ½ in	20 in	20 in	Black	Multisurface	—	**452R13**
24 in to 34 in	18 in	18 in	16 in	15 in	Black	Hard Floor	Bevco	**G8860**
Polyurethane Seat Material								
22 in to 32 in	18 in	17 in	17 in	12 in	Black	Hard Floor	Bevco	**8DJM0**
24 in to 34 in	19 ½ in	19 ½ in	17 ¼ in	15 in	Blue	Multisurface	Cramer	**G6682**

Scan. Order. Done.
Details on page A1.

Traditional Lip

Rectangular



Workstation

AbilityOne PROGRAM

Chairmats

Durable mats save your carpet or hard floor from caster wear and tear. EconoMat is an occasional use chairmat for low-pile carpet that provides a great value while offering economical performance. Supermat is medium-weight and for frequent use on medium-pile carpet.

Shape	Overall Dim.	ECONOMAT CARPET UP TO ¼" THICK Item No.	ECONOMAT HARD FLOORS Item No.	SUPERMAT CARPET UP TO ¼" THICK Item No.	SUPERMAT CARPET UP TO ¾" THICK Item No.
Traditional Lip	36 in x 48 in	**29PL62**	—	—	**29PL65**
Traditional Lip	45 in x 53 in	**29PL63**	**5WYC6**	—	**29PL66**
Rectangular	46 in x 60 in	**29PL64**	**29PL74**	—	—
Rectangular	36 in x 48 in	—	**29PL76**	**29PL75**	—
Workstation	66 in x 60 in	—	—	—	**29PL68**

ALERA

Big and Tall Leather Chair

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Item No.
Fixed Arms						
19 in to 22 in	Black	Black	Soft Leather	Soft Leather	450 lb	**38EG83**

6GNN4

36FK01

452R31

36FK02

Executive Chairs

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Item No.
Fixed Arms						
18 in to 22 in	Black	Black	Leather	Leather/Polyurethane	275 lb	**6GNN4**
19 in to 22 in	Black	Black	Leather	Leather	275 lb	**36FK01**
19 in to 22 in	Black	Black	Leather	Leather	400 lb	**452R31**
19 in to 22 in	Black	Black	Vinyl	Vinyl	400 lb	**36FK02**

36FJ99

19TX38

49UF42

452R25

balt — OFFICE STAR® PRODUCTS

Mesh-Back Desk Chairs

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Brand	Item No.
Adjustable Arms							
17 in to 20 in	Black	Black	Mesh	Fabric	300 lb	Balt	**15Y336**
18 in to 21 in	Black	Black	Mesh	Mesh	275 lb	—	**36FJ99**
18 in to 21 in	Black	Black	Mesh	Mesh	300 lb	Balt	**49UF42**
18 in to 22 in	Black	Black	Mesh	Fabric	250 lb	Office Star	**19TX38**
19 in to 23 in	Black	Black	Mesh	Leather	275 lb	—	**452R25**

15Z366

6GNN8

6GNN9

Desk Chairs

OFFICE STAR® PRODUCTS

Nominal Seat Height Range	Back Color	Seat Color	Back Material	Seat Material	Weight Cap.	Brand	Item No.
Adjustable Arms							
15 in to 20 in	Black	Black	Fabric	Fabric	250 lb	Office Star	**15Z366**
Fixed Arms							
18 in to 22 in	Black	Black	Polyester	Fabric	275 lb	—	**6GNN8**
19 in to 22 in	Black	Black	Vinyl	Vinyl	400 lb	—	**6GNN9**

Cherry

Mahogany

Conference Table Power/Data Port

Prestige+ L-Shape Desk, 15X406

Legacy Office Desk, Cherry 12T462

Conference Table, Mahogany 12U542

REGENCY YOUR COMPLETE OFFICE SOLUTION BESTAR www.bestar.ca

Lateral File, Mahogany 12T572

Fax/Printer Stand, Mahogany 12T566

Office and Conference Room Furniture

Work surfaces feature a melamine finish that resists scratches and stains. Meet ANSI/BIFMA standards, except 12U550, 12U551, 12U556, and 12U557.

Prestige+ Series—Drawers have ball-bearing slides for quiet and smooth operation. Feature durable 1"-thick work surface with melamine finish and 2.5mm PVC edge, a modesty panel, and classic moldings. Each pedestal has 2 utility drawers and 1 file drawer with letter/legal filing system.

Legacy Series—Modern design is constructed with 1"-thick melamine laminate with matching 3mm PVC edges. All drawers and doors feature ergonomically designed pulls and include interchangeable locks. File drawers have a 150-lb. weight capacity with full extension, 3-step suspension slides, and hanging rails for letter/legal filing.

Conference Tables—Race track tables have 2"-thick tops and feature power/data ports.

L	W	H	Legacy Series, REGENCY CHERRY Item No.	Legacy Series, REGENCY MAHOGANY Item No.
Conference Table, Race Track Shape				
6 ft	35 in	29 in	**12U526**	**12U527**
8 ft	43 in	29 in	**12U529**	**12U530**
10 ft	47 in	29 in	**12U532**	**12U533**
12 ft	52 in	29 in	**12U535**	**12U536**
14 ft	52 in	29 in	**31XK16**	**31XK17**
16 ft	52 in	29 in	**12U538**	**12U539**
18 ft	52 in	29 in	**31XK18**	**31XK19**
20 ft	52 in	29 in	**12U541**	**12U542**
22 ft	52 in	29 in	**31XK20**	**31XK21**
24 ft	52 in	29 in	**12U544**	**12U545**
Conference Table, Round				
—	42 in	29 in	**12U520**	**12U521**
Conference Table Extension				
48 in	52 in	29 in	**12U547**	**12U548**

Description	Series	W	Overall H	D	BESTAR, BORDEAUX Item No.	BESTAR, BORDEAUX/ GRAPHITE Item No.	REGENCY, RED Item No.	REGENCY, BROWN Item No.	REGENCY, CHERRY Item No.	REGENCY, MAHOGANY Item No.
Office Desks										
L-Shape Office Desk, (1) Full Pedestal	Prestige +	71 1⁄64 in	30 13⁄32 in	69 13⁄64 in	**38XR02**	—	—	—	—	—
L-Shape Office Desk, (1) Full Pedestal, Hutch	Prestige +	71 1⁄64 in	66 13⁄16 in	69 13⁄64 in	**38XP61** *	—	—	—	—	—
L-Shape Office Desk, (2) Full Pedestals, Hutch	Prestige +	71 in	66 ¾ in	62 ¾ in	—	**15X406**	—	—	—	—
Office Desk, Bow Front, (2) Pedestal Box/File	Legacy	71 in	29 in	35 in	—	—	**12T480** *	**12T481** *	—	—
Office Desk, Straight Front, (2) Pedestal Box/File	Legacy	60 in	29 in	30 in	—	—	**12T462** *	**12T463** *	—	—
	Legacy	66 in	29 in	30 in	—	—	—	**12T469** *	—	—
	Legacy	71 in	29 in	35 in	—	—	**12T474** *	**12T475** *	—	—
U-Shape Office Desk, (2) Pedestal Box/File	Legacy	71 in	29 in	106 in	—	—	—	—	**12T529** *	**12T530** *
Reception Desks										
L-Shape Reception Desk, (2) Pedestal Box/File	Legacy	71 in	42 in	82 in	—	—	—	—	**12U511** *	**12U512** *
Hutches										
Hutch, 4-Door	Legacy	71 in	36 in	15 in	—	—	—	—	**12T538**	**12T539**
Hutch, Open 2-Shelf	Legacy	35 in	36 in	15 in	—	—	—	—	**12T541**	**12T542**
Hutch w/ Lateral File Cabinet, Open 2-Shelf, File/File	Legacy	36 in	65 in	24 in	—	—	—	—	**12T547** *	**12T548** *
Hutch w/ Storage Cabinet, Open 2-Shelf, 2-Door	Legacy	36 in	65 in	24 in	—	—	—	—	**12T553** *	**12T554** *
File Cabinets										
Combination File Cabinet, Box/Box/File/Lateral	Legacy	31 in	29 in	24 in	—	—	—	—	**12T568** *	**12T569** *
Lateral File Cabinet, 2-Drawer, File/File	Legacy	36 in	29 in	24 in	—	—	—	—	**12T571** *	**12T572** *
Storage Cabinets										
Conference Room Dry Erase Cabinet, Porcelain Covered Steel Dry Erase	Legacy	47 in	47 in	5 in	—	—	—	—	**12U550**	**12U551**
Storage Buffet, 4-Door	Legacy	72 in	36 in	24 in	—	—	—	—	**12T556** *	**12T557** *
Storage Cabinet, 2-Door	Legacy	35 in	29 in	24 in	—	—	—	—	**12T562** *	**12T563** *
Storage Cabinet, Double Stacked	Legacy	36 in	65 in	24 in	—	—	—	—	**12T550** *	**12T551** *
Storage Cabinet, Stackable, 2-Door	Legacy	35 in	35 in	24 in	—	—	—	—	**12T559** *	**12T560** *
Storage Cabinet w/ Lateral File Cabinet, 2-Door, File/File	Legacy	36 in	65 in	24 in	—	—	—	—	**12T544** *	**12T545** *
Wardrobe Cabinets										
Wardrobe Cabinet	Legacy	14 in	65 in	24 in	—	—	—	—	—	**12T575**
Floor Lecterns										
Floor Lectern, w/(1) Inside Shelf, (4) Casters with 2 Locking	—	24 in	44 in	18 in	—	—	—	—	**12U556**	**12U557**
Fax/Printer Stands										
Fax/Printer Stand, 1-Drawer	Legacy	21 in	29 in	21 in	—	—	—	—	**12T565**	**12T566**

*** Includes locks.***

454Z59

454Z58

454Z55

454Z57

454Z62

Hirsh Industries

Executive and Pedestal Desks

Durable, laminated tops with lockable steel file drawers. For use with lateral filing cabinets, vertical filing cabinets, mobile pedestal filing cabinets, and book-cases. Meet ANSI/BIFMA standards.

Executive Desks—Include locks with 2 keys each, grommet holes, pencil tray, and drawer divider. Desks are shipped fully assembled.

Pedestal Desks—Include locks with 2 keys each and grommet holes. Require some assembly.

Pedestal Location	Color Top	Color Base	No. of Pedestals	Overall Width	Overall Depth	Overall Height	Mfr. Model	Item No.
Executive Desks								
Left and Right	Mahogany	Charcoal	2	60 in	30 in	29 ½ in	20534	**454Z59**
Left and Right	Walnut	Black	2	72 in	36 in	29 ½ in	20531	**454Z61**
Right	Mahogany	Charcoal	1	48 in	30 in	29 ½ in	20540	**454Z58**
Pedestal Desks								
Left and Right	Oak	Putty	2	60 in	30 in	29 ½ in	20445	**454Z55**
Left and Right	Walnut	Black	2	60 in	30 in	29 ½ in	20446	**454Z56**
Left and Right	Gray	Gray	2	60 in	30 in	29 ½ in	20448	**454Z57**
Right	Walnut	Black	1	48 in	30 in	29 ½ in	20437	**454Z62**

9NJ16

13F578

13F579

8UH84

Computer Workstations

Balt

All models feature lockable CPU bays, retractable keyboard shelves, full pedestal and built-in wire management conduits. Require assembly.

Series	Pedestal Location	Color Top	Color Base	Overall Width	Overall Depth	Overall Height	Mfr. Model	Item No.
Computer Workstation								
LX	Right	Teak	Black	48 in	24 in	29 in	89843	**9NJ16**
LX	Right	Teak	Black	72 in	24 in	29 in	89844	**8UH84**
LX	Right	Gray	Black	48 in	24 in	29 in	90106	**13F578**
LX	Right	Gray	Black	72 in	24 in	29 in	90107	**13F579**
Cable Management Tray								
	Includes (1) Tray			21 ½ in	2 ½ in	3 in	65850	**13F586**

Adjustable Desk Grommet

Flexible Desk Grommet

Self-Adhesive Wall/ Desk Wire Clips

J Style and Locking-Latch Channels

Desk Grommets, Wire Clips, and Channels

Problem Solving Products Master Manufacturing Master Caster · Supplier Diversity

Desk Grommets—Adjustable grommets open to 3 different widths. Flexible grommets can receive multiple wires from any direction.

Wall/Desk Wire Clips—Direct wires around corners or angles, keeping them safely off the floor and out of the way.

Channels—Block wires from view and prevent tangling. Self-adhesive backing. Locking-latch channels deter overstuffing; nonlocking ("J"-style) channels are designed for thicker cords.

Description	Dia.	H	L	W	Opening Size	Item No.
Desk Grommets						
Adjustable	2 in	1 ⅛ in	—	—	⅜ to 1 in	**1APP7**
Adjustable	2 ⅜ in	1 in	7 in	4 in	⅝ to 1¼'	**1APP8**
Adjustable	3 ⅛ in	1 ⅛ in	—	—	1 to 1¾ in	**1APP9**
Flexible	2 ⅜ in	1 ⅛ in	—	—	2¼ in	**1APU1**
Wall/Desk Wire Clips, Pkg. of 6						
Self-Adhesive	—	⅞ in	1 in	1 ½ in	¾ x 1¼ in	**1APU2**
Channels						
J Style	—	1 ⅛ in	48 in	2 ⅜ in	1½ x 15/16 in	**1APU3**
Locking-Latch	—	½ in	48 in	¾ in	5/16 x ⅝ in	**1APU4**
Locking-Latch	—	⅝ in	48 in	1 in	½ x ⅞ in	**1APU5**
Locking-Latch	—	⅞ in	48 in	1 ½ in	¾ x 1¼ in	**1APU6**

Half Round 39A159

Flipper Series Mobile Tables

balt

Easily flip the PVC top back to nest together for space-saving storage. Include 2" casters (2 locking, 2 nonlocking), modesty panel, integral cable trough, and grommets.

Shape	W	D	H	Tabletop Color	Item No.
Half Round	48 in	24 in	29 in to 45 in	Amber Cherry	39A159

13F574

13F576

Brawny Series Computer Desks

balt

Ideal for use in training rooms, classrooms, as workstations, or as general purpose tables for any work area. Black powder-coated steel frame with high-pressure laminate top. top. Include 3" casters (2 locking, 2 nonlocking) and optional glides.

Overall Width	Overall Depth	Overall Height	Top Color	Item No.
Computer Desks				
36 in	30 in	26 in to 34 in	Fusion Maple	49RP32
60 in	30 in	25 ½ to 33 ½ in	Medium Oak	13F574
72 in	30 in	25 ½ to 33 ½ in	Medium Oak	13F575
Color	**Overall Width**	**Overall Depth**	**Overall Height**	**Item No.**
CPU Holder				
Black	8 in	16 ½ in	1 ¼ in	13F576

Gray 16W967

Mahogany 16W968

OfficeWorks Series Mobile Tables

Iceberg

Functional training tables can easily be reconfigured to improve meeting productivity. Feature thermal-fused melamine laminate top, perforated modesty panel, and 4 casters (2 locking, 2 nonlocking).

Shape	W	D	H	GRAY Item No.	MAHOGANY Item No.
Rectangle	60 in	18 in	29 in	16W967	16W968
	72 in	18 in	29 in	16W969	16W970

39A163

39A161

39A157

Height-Adjustable Sit/Stand Flipper Series Mobile Tables

balt

Flexible tables adjust to accommodate sitting or standing heights up to 45". Tops flip back with a simple 1-handed lever for easy transport and nesting for storage. Black powder-coated steel frame with high pressure laminate top. Feature a stabilizing stretcher bar and 3" locking casters.

Shape	W	D	H	GRAY NEBULA Item No.	FUSION MAPLE Item No.	AMBER CHERRY Item No.
Rectangle	60 in	24 in	29 in to 45 in	39A163	39A160	39A157
	72 in	24 in	29 in to 45 in	39A164	39A161	39A158
Half Round	48 in	24 in	29 in to 45 in	39A165	39A162	39A159

4GE26

12F628

12F633

13V434

12F622

12F614

12F617

1RL27

Blow-Molded Polyethylene Folding Tables

High-density, scratch- and dent-resistant construction. Sturdy upper crossbar and steel tube legs. Use quarter round tables for conference and buffet uses. Bifold tables include handle for easy handling and storage.

Shape	Dia.	W	L	H	Top Thickness	WHITE Item No.	GRAY Item No.
Folding Tables							
Square	—	36 in	36 in	29 in	1 ¾ in	13V430	13V431
Rectangle	—	30 in	60 in	29 in	1 ¾ in	4GE25	12F624
	—	30 in	72 in	29 in	1 ⅞ in	4GE26	—
	—	30 in	72 in	29 in	2 in	—	12F625
	—	30 in	96 in	30 in	2 in	4GE27	12F626
Round	60 in	—	—	30 in	2 in	4NHN3	—
	60 in	—	—	29 in	2 in	—	12F628
Quarter Round	—	30 in	30 in	29 in	1 ¾ in	12F633	—
Bifold Tables							
Rectangle	—	30 in	61 in	29 in	1 ½ in	13V434	13V435
	—	30 in	96 in	29 in	1 ¾ in	—	13V436
	—	29 in	96 in	30 in	1 ¾ in	12F613	—
Square	—	36 in	36 in	28 in	1 ½ in	—	13V433
Folding Cocktail Tables							
Round	32 in	—	—	44 in	1 ¾ in	12F622	—
Folding Training Tables							
Rectangle	—	20 in	71 in	29 in	2 in	12F614	12F615

Description	Item No.
Benches, Blow-Molded Polyethylene Frame	
69 in W x 11 ½ in D x 18 ¼ in H, Gray	12F617
72 ½ in W x 12 in D x 17 ½ in H, Gray	12F619
Table Storage Caddy	
With 2 Rigid and 2 Swivel 5" Casters	1RL27

8RMK2

23PG33

Blow-Molded Polypropylene Folding Tables

National Public Seating

Weather-resistant tables feature a lightly textured surface that resists scratching, but is smooth enough to write on.

Shape	W	L	H	Dia.	Top Thickness	SPECKLED GRAY Item No.
Rectangle	30 in	60 in	30 in	—	1 ¾ in	8RMK2
	30 in	72 in	30 in	—	1 ¾ in	9UDW2
	30 in	96 in	30 in	—	2 in	8ZED9
Round	—	—	30 in	48 in	2 in	23PG33
	—	—	30 in	60 in	2 in	8PN51
	—	—	30 in	71 in	2 in	23PG34

Blow-Molded Polyethylene Adjustable Folding Table

Iceberg

Lightweight table has assembled contemporary style top. Heavy gauge, powder-coated oval tubing legs are 1" round. Comes with nonmarring protective foot caps. Easy to transport, set-up, and store.

Shape	W	L	H	Top Thickness	PLATINUM Item No.
Rectangle	20 in	30 in	25 in to 28 in	2 in	16W956

16W966

Iceberg

Blow-Molded Polypropylene Training Table

IndestrucTable TOO adjustable height tables are durable, dent- and scratch-resistant, and washable. Powder-coated steel tube base has nonmarring, adjustable leveling guides. Hold up to 300 lb., evenly distributed. Unassembled.

Shape	W	D	H	Top Thickness	CHARCOAL Item No.
Rectangle	48 in	24 in	21 in to 31 in	2 in	16W966
	60 in	30 in	21 in to 31 in	2 in	16W965

Folding Chairs

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Item No.
Unpadded						
Beige	Beige	18 ⅛ in	20 in	29 ¼ in	300 lb	**1W985**
Black	Black	18 ⅛ in	20 in	29 ¼ in	300 lb	**13V423**
Blue	Blue	18 ⅛ in	20 in	29 ¼ in	300 lb	**13V424**
Blow-Molded Plastic						
White	Gray	18 ½ in	21 ¼ in	33 ⅜ in	300 lb	**4NHN5**
Gray	Gray	18 ½ in	21 ¼ in	33 ⅜ in	300 lb	**13V429**
Vinyl Padded						
Beige	Beige	18 ¼ in	20 ⅛ in	30 ¼ in	300 lb	**2W158**
Black	Black	18 ¼ in	20 ⅛ in	30 ¼ in	300 lb	**13V425**
Gray	Gray	18 ¼ in	20 ⅛ in	30 ¼ in	300 lb	**4GE54**
Fabric Padded						
Beige	Beige	18 ½ in	20 ½ in	32 ¼ in	300 lb	**2W957**
Gray	Beige	18 ½ in	20 ½ in	32 ¼ in	300 lb	**13V426**
Blue	Gray	18 ½ in	20 ½ in	32 ¼ in	300 lb	**13V427**
Gray	Gray	18 ½ in	20 ½ in	32 ¼ in	300 lb	**13V428**
Chair Mover						
Cart for Folding Chairs, 300 lb Load Cap.				42 in	—	**3W076**

National Public Seating

Plastic Folding Chairs

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Brand	Item No.
800 Series							
Gray	Gray	18 ¾ in	20 ¾ in	29 ¾ in	480 lb	NPS	**3KYG7**
Blue	Gray	18 ¾ in	20 ¾ in	29 ¾ in	480 lb	NPS	**3KYF7**
Black	Black	18 ¾ in	20 ¾ in	29 ¾ in	480 lb	NPS	**3KYG1**
White	White	18 ¾ in	20 ¾ in	29 ¾ in	480 lb	NPS	**3KYH1**
600 Series							
Speckled Gray	Gray	18 ¾ in	21 ½ in	32 in	300 lb	NPS	**3KYL1**
Storage and Transport Dollies							
Cart for Folding Chairs, Holds 36 Chairs						—	**3KYH4**
Hanging Rack for Folding Chairs, Holds 84 Chairs						NPS	**3KYJ4**
Hanging Rack for Folding Chairs, Holds 84 Chairs/70 Coats						NPS	**9DZD7**

CORTECH USA REGENCY YOUR COMPLETE OFFICE SOLUTION

Stack Chairs

Series	Frame Material	Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Brand	Item No.
RazorBack	Polypropylene	Gray	Gray	20 in	21 in	30 in	Cortech	**4NHL2**
RazorBack	Polypropylene	Slate Blue	Slate Blue	20 in	21 in	30 in	Cortech	**4NHK7**
RazorBack	Polypropylene	Teal	Teal	20 in	21 in	30 in	Cortech	**4NHL3**
Maestro	Steel	Black	Black	21 in	23 in	30 ½ in	—	**4KK08**
—	Steel	Black	Black	21 ¾ in	18 ⅞ in	32 ⅛ in	—	**3W034**
Maestro	Steel	Blue	Gray	21 in	23 in	30 ½ in	—	**4KK09**
—	Steel	Blue	Gray	21 ¾ in	18 ⅞ in	32 ⅛ in	—	**16A323**
—	Steel	Sand	Sand	21 ¾ in	18 ⅞ in	32 ⅛ in	—	**3W033**
Zeng	Steel	Black	Black	22 in	17 in	31 in	Regency	**38HU21**

National Public Seating

9200 Series Stack Chairs

Seat Color	Frame Color	Overall Width	Overall Depth	Overall Height	Weight Cap.	Brand	Item No.
Vinyl Upholstery							
Blue	Black	18 in	20 in	34 in	300 lb	NPS	**23PG19**
Blue	Silver Vein	18 in	20 in	34 in	300 lb	NPS	**23PG11**
Black	Black	18 in	20 in	34 in	300 lb	NPS	**23PG21**
Black	Silver Vein	18 in	20 in	34 in	300 lb	NPS	**23PG13**
Fabric Upholstery							
Blue	Black	18 in	20 in	34 in	300 lb	NPS	**23PG22**
Blue	Silver Vein	18 in	20 in	34 in	300 lb	NPS	**23PG14**
Black	Black	18 in	20 in	34 in	300 lb	NPS	**23PG24**
Black	Silver Vein	18 in	20 in	34 in	300 lb	NPS	**23PG16**
Fabric Diamond Pattern Upholstery							
Navy	Black	18 in	20 in	34 in	300 lb	NPS	**23PG25**
Storage and Transport Dollies							
Cart for Stacking Chairs, Holds 10 Chairs						NPS	**3KYK1**
Cart for Stacking Chairs Holds 12 Chairs						—	**9JAM4**

Big Foot

Giant Foot

No-Slip Doorstops

BIG FOOT

Wide flange holds doors securely in any position. Gray color.

GIANT FOOT

Extra-large, impact-resistant doorstop holds doors with clearances up to 2". Safety yellow color.

Description	W	L	H	Item No.	Pkg. Qty.
Big Foot	2 ¼ in	4 ¾ in	1 ¼ in	**4JG43**	2
Giant Foot	3 ½ in	6 ¾ in	2 in	**4JG44**	2

1AYD7

3M

Self-Adhesive Bumpers

Bumpon peel-and-stick polyurethane bumpers adhere to a variety of surfaces.

Shape	H	W	Color	Item No.	Pkg. Qty.
Hemisphere	0.085 in	0.312 in	Clear	**1AYD5**	80
Cylindrical	0.14 in	0.5 in	Clear	**1AYD7**	56
Hexagonal Cone	0.12 in	0.433 in	Clear	**1AYD9**	132

10J992

10J995

10J999

Self-Stick Pads

Help protect surfaces from scratches and marring. Pads have a self-stick adhesive, except for 10J995. Convenient Multi Packs contain a variety of sizes and shapes.

Description	Dia.	H	Item No.	Pkg. Qty.
Felt Pads, Tan				
Round	⅜ in	3/32 in	**10G210**	84
Round	¾ in	7/32 in	**10G211**	20
Round	1 in	7/32 in	**10J989**	16
Round	1 ½ in	7/32 in	**10J990**	8
Round	2 in	7/32 in	**10J991**	6
Round	2 ½ in	7/32 in	**10J992**	4
Round	3 in	7/32 in	**10J993**	4
Square 1 in L x 1 in W	—	7/32 in	**10J994**	16
Rectangle 9 in L x 2 ½ in W	—	⅝ in	**10J995**	4
Furniture Gripper Pads, Black				
Round	1 in	7/32 in	**10J998**	16
Round	1 ½ in	7/32 in	**10J997**	8
Rectangle 5 in L x 4 in W	—	7/32 in	**10J996**	2

Item	Primary Furniture Tip Color	H	Includes	Item No.
Multi Packs				
Felt Pads	Tan	7/32 in, ⅝ in	(16) 1½'', (16) 1'', (4) 2½''	**10J999**
Felt Pads	Brown	7/32 in	(32) 1'', (40) ¾'', (8) 1½''	**10K001**

Rubber Angled, Straight

Plastic Angled

Slip-On Protective Leg Tips

Rubber—Nonskid cushioned rubber tips fit over straight or angled round tubular metal and wood furniture legs.

Plastic—Slip easily over tubular metal or wood furniture legs.

Shape	Cap Type	Leg Outside Dia.	Pkg. Qty.	WHITE Item No.	BLACK Item No.
Rubber					
Round	Angled, Straight	⅜ in	24	**6J559**	—
Round	Angled, Straight	½ in	24	**6J560**	**6J568**
Round	Angled, Straight	⅝ in	24	**6J561**	**6J569**
Round	Angled, Straight	¾ in	24	**6J562**	**6J570**
Round	Angled, Straight	⅞ in	24	**6J563**	**6J571**
Round	Angled, Straight	1 in	24	**6J564**	**6J572**
Round	Angled, Straight	1 ⅛ in	24	**6J565**	**6J573**
Round	Angled, Straight	1 ¼ in	24	**6J566**	**6J574**
Plastic					
Square	Straight	1 in	24	—	**6J576**
Round	Straight	⅞ in	24	**6J589**	**6J598**
Round	Straight	1 in	24	**6J590**	**6J599**
Round	Straight	1 ⅛ in	24	**6J591**	—
Round	Angled	¾ in	24	—	**6J580**
Round	Angled	⅞ in	24	—	**6J581**
Round	Straight	¾ in	24	—	**6J582**
Round	Straight	⅞ in	24	—	**6J583**
Round	Straight	1 in	24	—	**6J584**

Furniture Glides

Slide easily on wood, carpet, linoleum, and ceramic tiles. You can affix glides to furniture legs, and strip glides to entertainment centers and desks. Non-adhesive glides are reusable. 10K003 includes (4) 9'' x 2½'' rectangles, (4) 3½"-dia., and (4) 7''-dia. round shapes.

10G204

10G202

Shape	Tip/Cushion Material	Furniture Tip Attachment Method	Color	L	W	Dia.	Item No.	Pkg. Qty.
Non-Adhesive								
Multiple	Plastic/Felt and Foam	Non-Adhesive	Tan	9 in	2 ½ in	3 ½ in, 7 in	**10K003**	1
Rectangle	Plastic/Foam	Non-Adhesive	Tan	9 in	2 ½ in	—	**10G207**	4
Square	Plastic/Foam	Non-Adhesive	Tan	5 in	5 in	—	**10G208**	4
Self-Stick Adhesive								
Oval	Plastic/Foam	Self-Stick Adhesive	White	9 ½ in	5 ¾ in	—	**10G209**	4
Round	Plastic/Felt	Self-Stick Adhesive	Tan	—	—	1 ¼ in	**10G203**	4
Round	Plastic/Felt	Self-Stick Adhesive	Tan	—	—	1 11/16 in	**10G205**	4
Round	Plastic/Felt	Self-Stick Adhesive	Tan	—	—	2 ¼ in	**10G204**	4
Round	Plastic/Felt and Foam	—	Tan	—	—	5 in	**10K002**	4
Square	Plastic/Felt	Self-Stick Adhesive	Tan	2 ½ in	2 ½ in	—	**10G202**	4

15Y305

15Y311

15Y318

49RP12

Mobile Workstations and Stands

Description	H (in.)	Overall W (in.)	D (in.)	Color	No. of Casters	Caster Size (in.)	Mfr. Model	Item No.
Computer Workstation	27 ½ in to 52 ½ in	30 in	24 in	Black	4	3 in	42551	**15Y305**
Laptop Stand	21 ¼ in to 31 ¼ in	25 ¾ in	15 ¾ in	Black	5	2 in	48752	**15Y311**
Laptop Stand	27 in to 42 in	18 in	22 in	Black	3	2 in	89819	**15Y318**
Stand-Up Workstation	28 ½ in to 45 ½ in	27 ½ in	22 ½ in	Cherry	4	2 ½ in	90459	**49RP12**

15Y281

Mobile Printer Stand

Adjustable metal printer stand in a gray powder coated finish. The stand has a load capacity of 150lbs and includes four 2" plastic casters (2 Locking, 2 Non-locking). Assembly Required.

Description	H (in.)	Overall W (in.)	D (in.)	Color	No. of Shelves	Mfr. Model	Item No.
Adjustable	27 in	24 in to 35 in	29 in	Gray	3	21701	**15Y281**

15X695

15X701

15X702

15X704

15X718

15X717

Computer Racks, Workstations, and Carts

Description	W (in.)	Overall H (in.)	D (in.)	Color	Mfr. Model	Item No.
Racks, Workstations, and Carts						
Open Frame Shelf Rack, 5 Shelf with Server Shelf	24 in	72 in	30 in	Black	95-72241-004	**15X695**
Open Frame Shelf Rack, 5 Shelf	24 in	72 in	30 in	Black	95-72241-006	**15X696**
Computer Workstation, 3 Shelf	24 in	72 in	35 in	Black, Gray	95-72241-000	**15X694**
Computer Workstation, 2 Shelf	36 in	84 in	35 in	Black, Gray	95-UNI84-360	**15X701**
Double Frame Computer Workstation	60 in	84 in	35 in	Black, Gray	95-DUO84-600	**15X702**
Triple Frame Computer Workstation with Desk Mount CPU Holder	72 in	84 in	35 in	Black, Gray	95-TRI84-720	**15X703**
Triple Frame Computer Workstation with Overhead Storage	60 in	84 in	35 in	Black, Gray	95-TRIMO-000	**15X706**
Low Profile Computer Workstation, 5 Casters	48 in	42 in	35 in	Black, Gray	95-MIDIW-048	**15X704**
PACS Medical Workstation, 4 Casters	30 in	30 in	35 in	Black, Gray	95-21PAC-030	**15X718**
PACS Medical Workstation, 4 Casters	36 in	30 in	35 in	Black, Gray	95-21PAC-036	**15X719**
Low Profile Computer Cart, 4 Casters	24 in	42 in	35 in	Black, Gray	95-00042-024	**15X715**
Low Profile Computer Cart, 4 Casters	30 in	42 in	35 in	Black, Gray	95-00042-030	**15X716**
Low Profile Computer Cart, 4 Casters	36 in	42 in	35 in	Black, Gray	95-00042-036	**15X717**
Accessories						
Flat Panel Desk Clamp Assembly, 7 in Extension				—	95-HE502-035	**15X723**
Flat Panel Desk Clamp Assembly, 14 in Extension				—	95-HE502-045	**15X724**
Under Desk Articulating Keyboard/MouseTray				—	25-00110-000	**15X725**
Leg Mounted CPU Cradle				—	14-00830-000	**15X726**
Cable Raceway for 24" Wide Frame				—	38-00124-000	**15X727**
Cable Raceway for 30" Wide Frame				—	38-00130-000	**15X728**
Cable Raceway for 36" Wide Frame				—	38-00136-000	**15X729**
Power Strip for 24" Wide Frame				—	46-00050-624	**15X730**
Power Strip for 30" Wide Frame				—	46-00054-630	**15X731**
Power Strip for 36" Wide Frame				—	46-00058-836	**15X732**

AFC INDUSTRIES

Mobile Laptop Carts

All-purpose adjustable mobile stands are constructed of high-density polyethylene and steel. Units Include 5 casters; 2 locking and 3 swivel. No assembly required. 52AY31 includes a keyboard shelf and cover.

52AY31

52AY29

Overall H (in.)	Overall W (in.)	Overall D (in.)	Load Cap. (lb.)	Caster Size (in.)	Color	Mfr. Model	Item No.
25	24	24	25	4	Black	PCLS-HD-2323-01	**52AY30**
27 ½ to 43 ½	21	23	20	3	Gray	LPC750_2117_KB_2MB_SHIM_11	**52AY31**
48	18	25	25	4	Black, Red	LPC200_1825_LSH16_01	**52AY29**

11X418

11X395

11X402

11X421

FireKing®

Fire-Resistant File Cabinets

High-security Medeco key locks resist picking and drilling. UL Class 350 1-hr. fire rating with impact.

VERTICAL AND LATERAL FILE CABINETS

Fire-resistant insulation is 100% gypsum reinforced by a 1" x 2" lattice of 14-ga. galvanized welded-steel wire. Insulation is placed between each drawer to make each a separate fire-resistant container. Scratch-resistant and environmentally-friendly powder-coated finish. Drawer bodies have high sides for hanging files; no additional frames are required.

Safe-In-A-File vertical file cabinets conceal a 2.4 cu. ft. burglary-resistant safe behind a false-top drawer panel.

STORAGE CABINETS

Accommodate oversized documents, binders, or any other valuable items.

File Size	Overall Height	Overall Width	Overall Depth	No. of Drawers	BLACK Item No.	PARCHMENT Item No.
Vertical Files						
Letter	27 ¾ in	17 ¾ in	25 1⁄16 in	2	**11X395**	**11X391**
Letter/Legal	27 ¾ in	17 ¾ in	22 ⅛ in	2	—	**11X398**
Letter	27 ¾ in	17 ¾ in	31 9⁄16 in	2	**11U575**	**11U571**
Legal	27 ¾ in	20 13⁄16 in	25 1⁄16 in	2	**11X396**	**11X392**
Legal	27 ¾ in	20 13⁄16 in	31 9⁄16 in	2	**11U576**	**11U572**
Letter/Legal	52 ¾ in	17 ¾ in	22 ⅛ in	4	—	**11X397**
Letter	52 ¾ in	17 ¾ in	25 1⁄16 in	4	**11X393**	**11X389**
Letter	52 ¾ in	17 ¾ in	31 9⁄16 in	4	**11U573**	**11U569**
Legal	52 ¾ in	20 13⁄16 in	25 1⁄16 in	4	**11X394**	**11X390**
Legal	52 ¾ in	20 13⁄16 in	31 9⁄16 in	4	**11U574**	**11U570**
Safe-In-A-File Vertical Files						
Legal	27 ¾ in	20 13⁄16 in	31 9⁄16 in	2	—	**11X420**
Legal	40 ½ in	20 13⁄16 in	31 9⁄16 in	3	—	**11X419**
Legal	52 ¾ in	20 13⁄16 in	31 9⁄16 in	4	—	**11X418**
Lateral Files						
Letter/Legal	27 ¾ in	31 3⁄16 in	22 ⅛ in	2	**11X415**	**11X412**
Letter/Legal	27 ¾ in	37 ½ in	22 ⅛ in	2	**11X416**	**11X413**
Letter/Legal	27 ¾ in	44 ½ in	22 ⅛ in	2	**11X417**	**11X414**
Letter/Legal	40 ¼ in	31 3⁄16 in	22 ⅛ in	3	**11X409**	**11X406**
Letter/Legal	40 ¼ in	37 ½ in	22 ⅛ in	3	**11X410**	**11X407**
Letter/Legal	40 ¼ in	44 ½ in	22 ⅛ in	3	**11X411**	**11X408**
Letter/Legal	52 ¾ in	31 3⁄16 in	22 ⅛ in	4	**11X403**	**11X399**
Letter/Legal	52 ¾ in	37 ½ in	22 ⅛ in	4	**11X404**	**11X401**
Letter/Legal	52 ¾ in	44 ½ in	22 ⅛ in	4	**11X405**	**11X402**

No. of Shelves	H	W	D	Color	Item No.
Storage Cabinet					
2	44 in	36 in	19 ¼ in	Parchment	**11X422**
4	72 in	36 in	19 ¼ in	Parchment	**11X421**

48YC56

48YC55

48YC58

48YC57

Hirsh Industries®

Vertical File Cabinets

File cabinets feature precision ball-bearing slide suspension and core removable lock. High-side drawers eliminate the need for hang rails. 22"-deep cabinets include follower wires, all others include follower blocks. Contain up to 30% recycled material. Meet ANSI/BIFMA standards.

File Size	Overall Height	Overall Width	Overall Depth	No. of Drawers	BLACK Item No.	PUTTY Item No.
Letter	28 19/50 in	15 in	22 in	2	**48YC56**	**48YC55**
	52 in	15 in	22 in	4	**48YC58**	**48YC57**

Flat Filing Systems

10-Drawer Flat File

FLAT FILE CABINETS

Organize and protect stored documents such as blueprints and drawings with these heavy-duty welded steel files. Hinged paper weights in drawer fronts and hoods at the rear keep papers from curling. Drawers open smoothly and quietly, while sturdy drawer rails help ensure smooth alignment. Drawer stops help prevent accidental drawer pull-out. Each drawer includes 2 pull handles and chrome label holder. Include field-installed lock kit with 2 keys. Durable powder-coated finish.

BASES

Durable powder-coated finish. Shipped unassembled.

Closed—Raise flat files 4" off the floor to ease access. Support up to 5 stacked file units.

Open—Raise a single file unit 20" off the floor. The lower shelf helps provide extra storage space.

Closed Base

Open Base

Description	Inside Drawer Height	Inside Drawer Width	Inside Drawer Depth	Overall Height	Overall Width	Overall Depth	PUTTY Item No.	BLACK Item No.	GRAY Item No.
Flat File Cabinets									
5 Drawer, Small	1 7/8 in	37 13/64 in	26 7/64 in	16 7/64 in	40 13/16 in	28 3/8 in	**2CLA4**	**2CLA5**	—
5 Drawer, Medium	1 7/8 in	43 13/64 in	32 13/16 in	16 7/64 in	46 45/64 in	35 13/32 in	**2CLA7**	**2CLA8**	**2CLA9**
5 Drawer, Large	1 7/8 in	50 13/64 in	38 45/64 in	16 7/64 in	53 3/4 in	41 5/16 in	**2CLC1**	**2CLC2**	**2CLC3**
10 Drawer, Medium	7/8 in	43 13/64 in	32 13/16 in	16 7/64 in	46 45/64 in	35 13/32 in	**2CLC4**	**2CLC5**	**2CLC6**
Closed Bases									
For 5 and 10 Drawer, Medium Cabinets	—	—	—	4 in	46 3/4 in	35 3/8 in	—	**2CLD2**	—
For 5 Drawer, Large Cabinets	—	—	—	4 in	53 13/16	41 3/8 in	**2CLD4**	**2CLD5**	**2CLD6**
Open Bases									
For 5 and 10 Drawer, Medium Cabinets	—	—	—	20 in	46 3/4 in	35 3/8 in	**2CLE1**	—	—
For 5 Drawer, Large Cabinets	—	—	—	20 in	53 3/4 in	41 3/8 in	**2CLE4**	**2CLE5**	—

415G35

48YA88

48YC07

48YC30

48YC34

48YC39

48YC53

48YC90

Hirsh Industries®

Lateral File Cabinets

Feature ball-bearing slide suspension for smooth door operation and full drawer accessibility. Models have an interlock system and core-removable locks. Tough steel construction with a powder-coated finish. Full-width drawer pulls, except 48YA83 to 48YA88. All models meet ANSI/BIFMA standards.

File Size	Includes	Overall Width (in,)	Overall Height (in.)	Overall Depth (in.)	No. of Drawers	BLACK Item No.	CHARCOAL Item No.	LIGHT GRAY Item No.	PUTTY Item No.
Lateral Lateral File Cabinets									
A4/Legal/Letter	Hang Rails	36 in	28 in	18 41/64 in	—	—	—	—	**415G35**
	Hang Rails	36 in	52 ½ in	18 41/64 in	—	**415G37**	—	**415G38**	**415G36**
	Hang Rails	42 in	52 ½ in	18 41/64 in	—	**415G40**	—	—	—
Lateral File Cabinets									
A4/Legal/Letter	Hang Rails	30 in	28 in	18 63/100 in	2	**48YA84**	—	**48YA91**	**48YA83**
	Hang Rails	30 in	28 in	18 63/100 in	2	—	—	—	**48YA89**
	Hang Rails	30 in	40 3/10 in	18 63/100 in	3	**48YA94**	—	—	**48YA93**
	Hang Rails	30 in	52 ½ in	18 63/100 in	4	—	—	**48YA99**	—
	Hang Rails	30 in	52 ½ in	18 63/100 in	4	**48YA98**	—	**48YA88**	**48YA86**
	Hang Rails, Roll Out Binder Storage	30 in	67 63/100 in	18 63/100 in	5	**48YC03**	—	**48YC04**	**48YC02**
	Hang Rails	36 in	28 in	18 63/100 in	3	**48YC46**	—	—	—
	Hang Rails	36 in	28 in	18 63/100 in	2	**48YC07**	**48YC09**	**48YC08**	—
	Hang Rails	36 in	40 3/10 in	18 63/100 in	3	—	**48YC13**	—	**48YC10**
	Hang Rails	36 in	52 ½ in	18 63/100 in	4	—	**48YC17**	—	—
	(2) Shelves, Hang Rails	36 in	60 in	18 63/100 in	2	**48YC44**	—	—	—
	Hang Rails, Roll Out Binder Storage	36 in	67 63/100 in	18 63/100 in	5	—	**48YC21**	—	—
	Hang Rails	42 in	28 in	18 63/100 in	2	**48YC23**	**48YC25**	—	**48YC22**
	Hang Rails	42 in	40 3/10 in	18 63/100 in	3	**48YC28**	**48YC30**	—	**48YC27**
	Hang Rails	42 in	52 ½ in	18 63/100 in	4	—	**48YC35**	**48YC34**	**48YC32**
	Hang Rails, Posting Shelf, Roll Out Binder Storage	42 in	67 63/100 in	18 63/100 in	5	—	**48YC40**	—	—
	Hang Rails, Roll Out Binder Storage	42 in	67 63/100 in	18 63/100 in	5	**48YC38**	—	**48YC39**	**48YC37**
Lateral File Cabinet Cabinets									
A4/Legal/Letter	Hang Rails, Roll-Out Shelves	36 in	52 ½ in	18 63/100 in	4	**48YC48**	—	—	**48YC47**
	Hang Rails, Roll-Out Shelves	36 in	68 63/100 in	18 63/100 in	5	**48YC50**	—	—	**48YC49**
	Hang Rails, Roll-Out Shelves	42 in	52 ½ in	18 63/100 in	4	**48YC52**	—	—	**48YC51**
	Hang Rails, Roll-Out Shelves	42 in	68 63/100 in	18 63/100 in	5	**48YC54**	—	—	**48YC53**
Desk Pedestals									
Box/Box/File	3 Drawers, Lock, Casters	15 in	27 ¾ in	19 7/8 in	3	—	**48YC90**	—	—

Starter
5UFA4

Add-On
5UFA3

tennsco Storage Made Easy

Open Shelf Filing

- See Grainger.com for the number of dividers, uprights, shelves, and supports

Space-saving design saves up to 60% floor space compared to conventional filing cabinets. Shelves adjust vertically in 1½" increments with 5 adjustable dividers per shelf. Backstop keeps folders from falling off shelves. Snap-together assembly. Sand powder-coated finish.

				STARTER		ADD-ON	
H	W	D	No. of Shelves	Shelf Cap.	Item No.	Shelf Cap.	Item No.
76 in	48 in	12 in	6	550 lb	**5UFA4**	550 lb	**5UFA3**
76 in	36 in	12 in	6	600 lb	**5UFA6**	500 lb	**5UFA5**
76 in	36 in	15 in	6	500 lb	**5RGX8**	500 lb	**5RGX7**
88 in	48 in	12 in	6	550 lb	**5RGX4**	550 lb	**5RGX3**
88 in	36 in	12 in	6	600 lb	**5RGX6**	500 lb	**5RGX5**
88 in	36 in	15 in	6	500 lb	**5RGY0**	500 lb	**5RGX9**

22ND58

22ND61

Sandusky

Clear View Storage Cabinets

Locking handle helps secure contents. Heavy-gauge steel, with double doors and 3-point swing handles with keys. Clearview cabinets feature a clear acrylic window on each door. Ship assembled.

H	W	D	No. of Shelves	BLACK Item No.	PUTTY Item No.
72 in	36 in	18 in	4	**22ND58**	**22ND61**

AbilityOne PROGRAM

Blow-Molded Storage Cabinet

Rectangular storage cabinet with 2 locking doors. Steel-reinforced internal shelves can be adjusted or removed. Made of durable HDPE material. Ships assembled.

H	W	D	Color	Item No.
46 in	36 in	22 in	Gray	**60GV54**

16X007

16X010

16X015

Iceberg

OfficeWorks Storage Cabinets

Lockable cabinets have double-walled dent- and scratch-resistant blow-molded high-density polyethylene (HDPE) construction for stability and security. Chemical-resistant and easy to clean. Quick and easy assembly with minimal tools.

H	W	D	No. of Shelves	Includes	BLACK Item No.	PLATINUM Item No.
46 in	36 in	22 in	2	(1) Adjustable Shelf Holds 125 lb (1) Fixed Shelf Holds 125 lb Each, (2) Keys	**16X010**	**16X012**
66 in	33 in	18 in	3	(1) Fixed Shelf Holds 75 lb Each, (2) Adjustable Shelves Holds 75 lb Each, (2) Keys	**16X007**	**16X009**
72 in	36 in	22 in	4	(1) Fixed Shelf Holds 125 lb Each, (2) Keys, (3) Adjustable Shelves Holds 125 lb Each	**16X013**	**16X015**

Vertical Filing Systems

Easily store and access large paperwork, such as engineering drawings. Tan color.

Note: Hanging clamps sold separately.

Pivot Mobile Stand—Rolls on 4 swivel casters (2 locking). Frame adjusts to accommodate 1200 sheets up to 54" long. Includes 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Drop/Lift Mobile Plan Center—1800-sheet capacity unit has 4 swivel casters (2 locking). Includes 18 pivot brackets to hold 24" to 48" clamps (sold separately).

Pivot Wall Rack—Mounts for space-saving storage of up to 1200 sheets. Includes mounting hardware and 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Drop/Lift Wall Rack—Space-efficient model extends less than 12" from wall; holds up to 1200 sheets. Includes mounting hardware and 12 pivot brackets to hold 18" to 42" clamps (sold separately).

Hanging Clamps (Sold Separately)—Extruded aluminum clamps hold 100 sheets each (20-lb. max. weight). Clear plastic label holders and black end caps included. Sold in carton of 6.

Pivot Mobile Stand 5W268

Drop/Lift Mobile Plan Center 4KH75

Pivot Wall Rack 5W269

Drop/Lift Wall Rack 4KH74

Hanging Clamps (sold separately) 4KH73

Description	Req. No. of Clamps	H	W	D	Item No.
Filing Systems					
Pivot Mobile Stand	12	43 ½ in to 61 ½ in	27 in	27 ½ in to 37 ½ in	5W268
Drop/Lift Mobile Plan Center	18	52 in	30⅗ in to 48⅗ in	21⅓ in	4KH75
Pivot Wall Rack	12	9 ¾ in	24 in	—	5W269
Drop/Lift Wall Rack	12	7 ¾ in	1 ¼ in	11 ½ in	4KH74

Holds Sheets up to	Clamp Size	Item No.
Hanging Clamps		
18 in	19 ¾ in	4KH73
24 in	25 ¾ in	5W270
30 in	31 ¾ in	5W271
36 in	37 ¾ in	5W272
42 in	43 ¾ in	5W273

Roll Filing Systems

MOBILE WIRE

Economical units reduce filing and retrieval time. Assemble quickly and easily.

4KH35—Constructed of heavy-gauge steel rods with white plastic coating and grandstand bottom for easy identification of same-length rolls. 4 swivel casters.

5CRX0 and 5CRX1—Four 2" poly dual-wheel casters (2 locking), will not mar floors. Include insert to accommodate various size rolled documents. Black finish.

MOBILE WOODCORE

Heavy-duty grandstand design with square compartments stores rolled materials at graduated heights for easy accessibility. Textured putty, vinyl laminate finish. Has four 2" swivel casters.

STATIONARY CORRUGATED FIBERBOARD

Light-duty, portable filing system holds rolls upright in square compartments with reinforced plastic molding to prevent tears and snags. Walnut woodgrain finish.

Mobile Wire 4KH35

Mobile Wire 5CRX1

Mobile Woodcore 4KH33

Mobile Woodcore 4KH34

Stationary Corrugated Fiberboard 4KH31

No. of Compartments	H	W	D	Tube Size	Item No.
Mobile Wire					
24	31 ¾ in	21 in	14 ¼ in	3 ⅛ sq in	4KH35
36	32 ⅜ in	35 ⅜ in	15 in	3 ½ sq in	5CRX0
60	32 ⅜ in	34 in	15 in	2 ½ sq in	5CRX1
Mobile Woodcore					
20	23 ¼ in	15 ¼ in	13 ¼ in	2 ¾ sq in	4KH33
21	29 ¼ in	30 ¼ in	15 ¾ in	3 ¾ sq in	1RK42
50	29 ¼ in	30 ¼ in	15 ¾ in	2 ¾ sq in	4KH34
Stationary Corrugated Fiberboard					
12	22 in	15 in	12 in	3 ⅞ sq in	4KH31
20	22 in	15 in	12 in	2 ¾ x 2 ¾ sq in	4KH32

Find Metal Bookends at Grainger.com.

4KJ20

4KJ23

tennsco Storage Made Easy

Steel Unassembled Bookcases

- Powder-coated finish

Assemble easily with provided hand tool. Reinforced shelves slide out easily to adjust in 1½" increments, lock securely when slid back in, and are slotted on 1" centers to accept bookstops (1 per shelf included). Bottom shelf does not adjust. 20-gauge steel construction.

H	W	D	No. of Shelves	Shelf Cap.*	BLACK Item No.	CHAMP/ PUTTY Item No.
42 in	38 in	12 in	3	200 lb	4KJ20	4KJ21
30 in	38 in	12 in	2	200 lb	—	4KJ19
60 in	38 in	12 in	5	200 lb	—	4KJ22
84 in	38 in	12 in	6	200 lb	3W085	4KJ23

** Based on evenly distributed loads.*

3CTD9

1PX78

1PX83

9TE60

tennsco Storage Made Easy

Stationary Assembled Bookcases

All welded steel cabinets with powder-coated finish, accommodate large books, 3-ring binders, catalogs, ledgers, videos, and other reference materials. Tennsco shelves adjust vertically without tools

H	W	D	No. of Shelves	Shelf Cap.*	Shelf Adjustments	Color	Brand	Item No.
42 in	36 in	18 in	3	200 lb	Adjustable	Dove Gray	Atlantic Metal	3CTD9
42 in	36 in	18 in	3	200 lb	Adjustable	Putty	Atlantic Metal	3CTE1
66 in	34 ½ in	13 ½ in	5	130 lb	—	Black	Tennsco	1PX78
72 in	36 in	18 in	5	150 lb	2 5⁄64 in	Light Grey	Tennsco	9DFN5
78 in	34 ½ in	13 ½ in	6	130 lb	2 5⁄64 in	Black	Tennsco	1PX81
78 in	34 ½ in	13 ½ in	6	130 lb.	2 5⁄64 in	Light Gray	Tennsco	1PX83
84 in	36 in	18 in	6	200 lb	Adjustable	Dove Gray	Atlantic Metal	3CTF3
84 in	36 in	18 in	6	150 lb	2 5⁄64 in	Light Grey	Tennsco	9TE60

** Based on evenly distributed loads.*

3CTG7

3CTH1

3CTH9

Mobile Assembled Bookcases

- Powder-coated finish

Mobile units have 4 heavy-duty 5" swivel casters, 2 are locking. 18" extra-deep shelves can accommodate large books, 3-ring binders, catalogs, ledgers, videos, and other reference materials. Shelves adjust on 1" centers.

H	W	D	No. of Shelves	Shelf Cap.*	BLACK Item No.	DOVE GRAY Item No.	PUTTY Item No.
36 in	36 in	18 in	2	200 lb.	—	—	3CTG7
48 in	36 in	18 in	3	200 lb.	3CTG9	3CTH1	3CTH2
78 in	36 in	18 in	5	200 lb.	3CTH8	3CTH9	3CTJ1

** Based on evenly distributed loads.*

11U531

11U524

11U523

11U527

11U525

Mailroom Sorting Tables

MARVEL

- Powder-coated finish

Offer outstanding durability and easy care. Feature a scratch- and mar-resistant high-pressure laminate top for easy cleanup. Adjustable height legs increase functionality. Steel construction. Assembly required.

Description	No. of Compartments	H	W	D	Item No.
Sorting Table Center w/Open Shelf	50	76 in to 84 in	60 in	30 in	11U531
Sorting Table w/Doors	1	28 in to 36 in	60 in	30 in	11U524
Sorting Table	1	28 in to 36 in	60 in	30 in	11U523
Sorter Corner Table Bridge	0	28" to 36"	30"	30"	11U527
Fixed Sorter with Riser	35	42 in	60 in	14 in	11U525

5CRX9

5CRY3

5CRY7

Steel Shell/Plastic Compartment Horizontal Literature Organizers

Organize and display a variety of literature in space-saving units. Heavy-duty polypropylene compartments accommodate letter-size file folders, catalogs, or other documents and hold up to 550 sheets. Wide shelf fronts have built-in label holders for easy content identification (labels included). Compartment size is 2½"H x 10⅓"W x 12"D. Assembly required.

Description	No. of Compartments	H	W	D	BLACK Item No.	GRAY Item No.	TAN Item No.
Letter	24	30 in	34 ½ in	13 in	5CRX9	5CRY0	5CRY1
Letter	36	42 in	34 ½ in	13 in	5CRY2	5CRY3	5CRY4
Letter	72	84 in	34 ½ in	13 in	5CRY5	5CRY6	5CRY7

4YTC7

4YTE3

4YTC8

Welded Steel Horizontal Literature Organizers

tennsco Storage Made Easy

- Powder-coated finish
- Organizer trays adjust on 1½" centers

Fully-assembled organizers hold letter- or legal-sized documents and can be double-stacked or ganged side-by-side.

Type	No. of Compartments	H	W	D	BLACK Item No.	CHAMP/ PUTTY Item No.	LIGHT GRAY Item No.
Literature Sorter							
Letter Size Opening	21	33 in	30 ⅝ in	11 ½ in	4YTC7	4YTC9	4YTC8
Legal Size Openings	21	33 in	30 ⅝ in	14 ¼ in	4YTD1	4YTD3	4YTD2
Horizontal Literature Organizer							
Letter, Drawers	30	33 in	30 ⅔ in	11 ½ in	4YTE1	4YTE3	4YTE2
Legal, Drawers	30	33 in	30 ⅔ in	14 ½ in	4YTE4	4YTE6	4YTE5

1ECJ7

Wire Basket Mail Carts

Chrome-plated carts have lift-out removable baskets for easy loading and unloading. Also feature heavier-duty 5" swivel and 10" rigid casters.

Overall Dim. L	W	H	Top Basket Dim. L	W	H	Bottom Basket Dim. L	W	H	Item No.
30 in	23 in	38 in	28 in	21 in	11 in	28 in	21 in	7 ½ in	1ECJ7
41 in	23 in	38 in	39 in	21 in	11 in	39 in	21 in	7 ½ in	1ECJ8

317D53

619M25

619U18

619U42

SAFCO

Book Carts

Heavy-duty carts have side handles and locking swivel casters.

Description	Color	Mfr. Model	Item No.
Book Cart, Single-Sided, 4 Casters, 3 Shelves, 43.5 in H x 36 in W x 14.5 in D	Sand	5358SA	317D53
Book Cart, Single-Sided, 4 Casters, 3 Shelves, 43.5 in H x 36 in W x 18.5 in D	Sand	5357SA	619M25
Book Cart, Single-Sided, 4 Casters, 3 Shelves, 44.25 in H x 33 in W x 14.25 in D	Black	5336BL	619U18
Book Cart, Double-Sided, 4 casters (2 lock casters), 6 Shelves, 41.25 in H x 41.25 in W x 17.75 in D	Black	5335BL	619U42

Scan. Order. Done.
Details on page A1.

38W824

38W826

38W839
38W841
30HH75

38W839

38W840

Umbrella Stands and Bags

Rustproof aluminum stands are easy to clean and maintain. 38W822 and 38W824 include removable water pans, all other models have weighted bases. Umbrella bags, sold separately, are dispensed from 2-sided floor standing holders. Holder 30HH74 and 30HH75 accept 38W839 sign, which is sold separately. Clear durable bags fit all umbrella sizes and are easy to use.

Umbrella Capacity	Finish	Dim.	Item No.
Umbrella Stands			
12	Satin Aluminum	18 in H x 12 in W x 10 in D	**38W822**
24	Satin Aluminum	18 in H x 24 in W x 10 in D	**38W824**
30	Satin Aluminum	23 in H x 15 in Dia.	**38W826**

Description	Finish	H	W	Item No.
Wet Umbrella Holders, Sign, and Bags				
Floor Standing Umbrella Bag Holder	Satin Black	43 in	11 ½ in	**38W831** *
	Satin Aluminum	43 in	11 ½ in	**38W832** *
2-Sided Umbrella Bag Floor Stand for use with Sign	Satin Black	43 in	11 ½ in	**30HH74**
Floor Standing Umbrella Bag Holder for use with Sign	Satin Aluminum	43 in	11 ½ in	**30HH75**
Wet Umbrella Bag Sign	—	11 in	7 in	**38W839**
Wet Umbrella Bags, Pkg. 100	—	31 in	7 in	**38W841**
Wet Umbrella Bags, Pkg. 1000	—	31 in	7 in	**38W840**

***** *Not for use with 38W839 sign.*

Rotary
2KEF9

Rotary
2KEG2

1RH21

1RH13
(5 Units Shown)

656N44

Steel Vertical and Rotary Literature Organizers

DURHAM MFG Est. 1922

Store and display a variety of literature in a compact area. Vertical racks come assembled, rotary racks require assembly. Wall-mount, hardware not included.

No. of Compartments	H	W	D	BLACK Item No.	TAN Item No.	GRAY Item No.
Rotary						
20	23 ⅛ in	14 ⅛ in	14 ⅛ in	**2KEF9**	**1RH33**	—
44	48 ½ in	14 ⅛ in	14 ⅛ in	**2KEG1**	**1RH37**	—
92	68 ⅜ in	14 ⅛ in	14 ⅛ in	**2KEG2**	**1RH41**	—
Vertical						
5	20 ¼ in	9 ¾ in	4 ⅛ in	**2KEF8**	**1RH21**	—
11	36 in	9 ¾ in	4 ⅛ in	**2KEF7**	**1RH17**	**656N44**
23	65 ½ in	9 ¾ in	4 ⅛ in	**2KEF6**	**1RH13**	—

5M655

2W330

9WZF7

8A811

Step Stools

cramer

Casters	Bottom Width	Top Step Height	Color	Load Cap.	Brand	Item No.
Plastic						
Retractable, Heavy-Duty Rubber	15 ¾ in	13 ½ in	Beige	350 lb	—	**5M655**
		9 ½ in	Black	350 lb	—	**5M656**
Steel						
Spring Mounted, Retract Under Pressure	16 in	14 ¼ in	Black	350 lb	Cramer	**2W330**
		14 ¼ in	Red	350 lb	Cramer	**9WZF7**
		14 ¼ in	Sand	350 lb	Cramer	**1UG81**
		14 ¼ in	Slate	350 lb	Cramer	**8A784**
		14 ¼ in	Silvertone	350 lb	Cramer	**8A811**

2KEK1

2KEK2

Mail/Suggestion Boxes

Constructed from cold-rolled steel and feature a powder-coated finish. Include 2 keys, mounting screws, adhesive labels, form templates, and pen.

H	W	D	Color	Item No.
7 in	9 ¾ in	3 in	Gray	**2KEK1**
11 in	12 ½ in	10 in	Gray	**2KEK2**

Annin FLAGMAKERS

Outdoor Flags

Embroidered stars and reinforced fray-resistant lock-stitched stripes on the fly end of the flag. 6 x 10-ft. and smaller size flags have brass lock grommets; 8 x 12-ft. and larger flags have roped heading. Nylon flags provide the best UV resistance and fly in the lightest breeze. 2-ply spun polyester flags provide the longest wear and resist high winds. For additional Flags, Flag Poles, and Accessories go to Grainger.com.

4XM79

Height	Width	Min. Flagpole Height	COTTON Item No.	NYLON Item No.	POLYESTER Item No.
3 ft	5 ft	20 ft	—	3JN76	2NED3
4 ft	6 ft	25 ft	—	3JN77	2NED4
5 ft	8 ft	30 ft	3GRH6	3JN78	2NED5
6 ft	10 ft	40 ft	—	4XM79	—
6 ft	10 ft	35 ft	—	—	2NED6
8 ft	12 ft	45 ft	—	2ZE44	—
8 ft	12 ft	40 ft	—	—	2NED7
10 ft	15 ft	50 ft	—	3GRG6	3GRJ4
12 ft	18 ft	60 ft	—	3GRG7	3GRJ5
15 ft	25 ft	80 ft	—	3GRG8	3GRJ6
20 ft	30 ft	80 ft	—	3GRG9	3GRJ7

Annin FLAGMAKERS

Flagpole Accessories

Description	Item No.
Snap Hook, 3 5/8 in H, 3/8 in L	5JFC7
Halyard, 3/8 in Dia., 100 ft L	5JFC6
Halyard, 5/16 in Dia., 100 ft L	5JFC5
Cleat, A-9, 9 in L	5JFC4
Revolving Truck, 2S-HR, Aluminum	5JFC3
Ball Ornament, 3" Dia., Aluminum	5JFA7
Ball Ornament, 4" Dia., Aluminum	5JFA8
Ball Ornament, 5" Dia., Aluminum	5JFA9
Ball Ornament, 6" Dia., Aluminum	5JFC0
Ball Ornament, 8" Dia., Aluminum	5JFC1

5JFC7

5JFC5

5JFC3

5JFC4

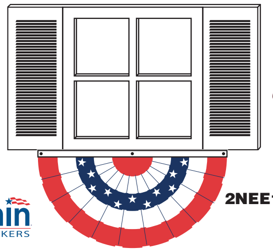
5JFA7

Annin FLAGMAKERS

Indoor/Outdoor Estate Flag Set

Sewn and embroidered flag includes 6-ft. aluminum spinning pole and 1" dia. mounting bracket. Nylon flag will not furl in the wind.

Height	Width	Item No.
3 ft	5 ft	5JGD3


2NEE1

5JGE2

Annin FLAGMAKERS

Pleated Fans and Bunting

- For indoor and outdoor

Height	Width	Material	Item No.
Pleated Fans			
18 in	36 in	Poly/Cotton Blend	5JGE3
3 ft	6 ft	Nylon	2NEE1
4 ft	8 ft	Nylon	2NEE2

Height	Width	Material	Item No.
Bunting			
180 ft	3 ft	Poly/Cotton Blend	5JGE2

2NED8

Annin FLAGMAKERS

Indoor Flag Sets

Nylon flag has gold fringe, cord, and tassels. Include 2-pc. oak pole, gold eagle ornament, and gold color floor stand.

Pole L	Height	Width	Item No.
8-ft.	3 ft	5 ft	2NED8
9-ft.	4 ft	6 ft	2NED9

Annin FLAGMAKERS

State Flags

Durable and fast-drying flags are made to official state design specifications. Nylon with strong duck heading and large brass grommets.

▶CHOOSE:	3 ft x 5 ft Item No.	4 ft x 6 ft Item No.	5 ft x 8 ft Item No.
Any State or District of Columbia	D3761	D3771	D3772

US Army

US Marine Corps

US Navy

US Air Force

Armed Forces Flags

Annin FLAGMAKERS

Nylon flags are manufactured to military branch specifications.

▶CHOOSE:	3 ft x 5 ft Item No.	4 ft x 6 ft Item No.	5 ft x 8 ft Item No.
US Army, US Marine Corps, US Navy, US Air Force, US Coast Guard, POW-MIA	D4226	D4227	D4228

Annin FLAGMAKERS

Classroom Flags

Indoor flags are made from nylon material. Mounting brackets, sold separately. For additional Flags, Flag Poles, and Accessories go to Grainger.com.

5JGD4

Height	Width	Item No.	Pkg. Qty.
12 in	18 in	5JGD4	12
16 in	24 in	5JGD5	12
24 in	36 in	5JGD6	12

Annin FLAGMAKERS

Desk Flag

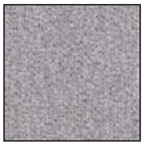
- Includes black styrene stand with 10" staff

Height	Width	Material	Item No.
4 in	6 in	Nylon	2NEE3

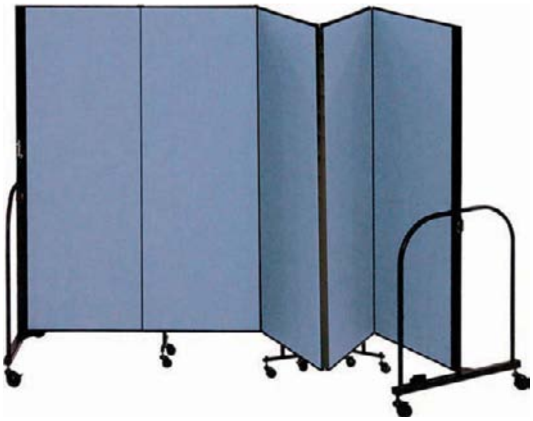
Beige

Blue

Gray



Mauve



F1883

SCREENFLEX
Commercial Edition
Portable Room Dividers

Room Dividers

Sound-absorbing divider panels are free of external connections and glide across floors on self-leveling casters. No assembly or installation required. Black powder-coated painted metal trim, hinges, and caster covers. Tackable panels are treated with fabric protector.

No. of Panels	Overall Width	▶CHOOSE: Color	4 FT HEIGHT Item No.	5 FT HEIGHT Item No.	6 FT HEIGHT Item No.	6 FT 8 IN HEIGHT Item No.	7 FT 4 IN HEIGHT Item No.	8 FT HEIGHT Item No.
3	5 ft 9 in	Beige, Blue, Gray, Mauve	**F1876**	**F1877**	**F1878**	**F1879**	**F1880**	**F1881**
5	9 ft 5 in	Beige, Blue, Gray, Mauve	**F1882**	**F1883**	**F1884**	**F1885**	**F1886**	**F1887**
7	13 ft 1 in	Beige, Blue, Gray, Mauve	**F1888**	**F1889**	**F1890**	**F1891**	**F1892**	**F1893**
9	16 ft 9 in	Beige, Blue, Gray, Mauve	**F1894**	**F1895**	**F1896**	**F1897**	**F1898**	**F1899**
11	20 ft 5 in	Beige, Blue, Gray, Mauve	**F1900**	**F1901**	**F1902**	**F1903**	**F1904**	**F1905**
13	24 ft 1 in	Beige, Blue, Gray, Mauve	**F1906**	**F1907**	**F1908**	**F1909**	**F1910**	**F1911**

39A134

39A072

Best-Rite

Panels and Partitions

Desktop Privacy Panels—Define work areas, provide privacy, and help shield sound without impairing visibility. Attaches to any work top from .75" to 1.5" thick without using any permanent hardware or damaging surface. Porcelain steel dry erase surface.

Whiteboard Partitions—Mobile, double-sided partitions can be used to divide, organize, and customize your work or display areas. Include hardware, 2 markers, and eraser cloth. Locking casters. Steel board frame.

Description	Height	Width	Item No.
Desktop Privacy Panels	17 in	21 ½ in"	**39A134**
	17 in	32 in"	**39A135**
	17 in	41 in"	**39A136**
	17 in	48 in"	**39A137**
	17 in	58 in"	**39A138**
	17 in	66 in"	**39A139**
Porcelain Steel Magnetic Whiteboard	72 in	72 in	**39A072**
	72 in	96 in	**39A074**
Dura Rite HPL Whiteboard	72 in	72 in	**39A073**
	72 in	96 in	**39A075**

Dry-Erase Room Divider

Best-Rite

Easily turn any space into a multifunctional environment; add to a personal work area for increased privacy or combine several dividers to create a new, separate meeting area. Features a double-sided magnetic built-in dry erase board, a unique leg design that minimizes gapping, and locking casters. Trimmed In modern anodized aluminum. Includes eraser cloth, grooved trim (to hold optional trays, sold separately) and hardware.

Dry Erase Height	Dry Erase Width	Overall Width	Overall Height	Item No.
72 in	48 in	4 ft.	6 ft.	**49RP84**

48PP91

48PP87

LUXOR

Tablet Charging Carts

Steel carts are compatible with tablets and chromebooks and feature steel doors with locks. Inside contains a cord management system to keep items organized and charged, and rubber-coated dividers for protection. Include cabinet handle and four casters for easy transport.

Includes	Cap.	H	W	D	Item No.
(2) 12 Outlet Power Strips	24 lb	40 ⅛ in	31 ⅛ in	21 ⅛ in	**48PP91**
(2) 16 Outlet Power Strips, Set of 2 Keys, Side Cord Wrap	30 lb	37 ½ in	24 ½ in	21 ¼ in	**48PP87**

45NP01

45NP02

Carts

Carts are made from polypropylene and glass fiber. They feature (4) 4" swivel casters with 2 that lock. Includes UL Listed power strip with 10-ft. cord and power strip holder.

Item	Monitor Size	Color	Load Capacity	H	W	D	Item No.
Cart	26"	Black	400 lb	37³⁄₁₆"	32⅝"	19⁵⁄₁₆"	**45NP01**
	26"	Black	400 lb	47¼"	32⅝"	19⁵⁄₁₆"	**45NP03**
Cart with Cabinet	26"	Black	400 lb	37³⁄₁₆"	32⅝"	19⁵⁄₁₆"	**45NP02**
	26"	Black	400 lb	47¼"	32⅝"	19⁵⁄₁₆"	**45NP04**
	26"	Black	400 lb	52¾"	32⅝"	19⁵⁄₁₆"	**45NP05**

Wall/Ceiling Projection Screen 1UEN9

Tripod Projection Screen 1UEP1

quartet.

Projection Screens

Wall or Ceiling—Heavy-duty springs keep retraction tension consistent over time. Optional wall mount bracket extends screen 6" from wall, sold separately.

Tripod—Durable and lightweight screen comes with a steel protective case. Rolling springs help ensure a properly tensioned viewing surface.

Mounting Method	Screen Size	Item No.
Wall or Ceiling	60 x 60 in	**1UEN9**
	70 x 70 in	**1UEN8**
	84 x 84 in	**1UEN7**
Tripod	60 x 60 in	**1UEP1**
	70 x 70 in	**30P074**
Wall Mount Bracket, Pkg. of 2		**1UEN6**

6NWC9

6NWD0

6NWD1

6NWD3

Kensington

Computer Locks

Description	Item No.
Grommet Hole Cable Anchor	**6NWC9**
Desk Mount Cable Anchor	**6NWD0**
Cable Lock	**6NWD1**
Cable Lock	**6NWD3**

30P075

1UEP2

1UEP3

1UEP4

quartet.

Laser Pointers

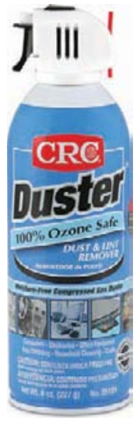
- Batteries included

WARNING: Avoid direct eye exposure.

Multifunctional No. 1UEP4— 4 functions in 1: laser pointer, LED light, pen, and PDA stylus.

Description	Beam Color	Class	Projection	Material	Item No.
Laser Pointer	Red	2	655 ft	Plastic	**30P075**
	Red	3A	655 ft	Plastic	**1UEP2**
	Red	3A	1,500 ft	Aluminum	**1UEP3**
Multifunction Laser Pointer	Red	2	919 ft	Metal	**1UEP4**

40KJ49



19MX53

2RRD2

Aerosol Dusters

Provide air blast that cleans and removes embedded debris and dust without damaging sensitive electronics, equipment, computers, DVD players, or detectors. 100% ozone safe and contains a bitterant to help discourage inhalant abuse. Include extension straws for hard-to-reach areas.

Size	Brand	Item No.		Pkg. Qty.
10 oz	Dust-Off	**40KJ49**		1
10 oz	Dust-Off	**40KJ50**		2
17 oz	Dust-Off	**40KJ48**		1
17 oz	Dust-Off	**40KJ51**		2
8 oz	CRC	**19MX53**	*	1
10 oz	Ability One	**2RRD2**	†	1

**RoHS Compliant. †VOC Compliant.*

Rechargeable Industrial Use Canless Air System

Easily cleans keyboards, servers, retail displays, camera equipment, and circuit boards. Lasts for 18 min. per charge, which is equal to 2 to 3 cans of canned air. Features a battery life of over 500 charges; system equals over 1000 cans of air in its lifetime. Includes straws and charger.

Net Weight	Item No.
18.2 oz	**36P713**

Critical Air Duster

Blasts dry, filtered air for cleaning and removing dirt and debris off computers, electronics equipment, printers, copiers, and cameras. Includes ⅞" air concentrator, air-flare nozzle, and 4-pc. micro cleaning tool kit.

Net Weight	Item No.
2.7 lb	**5NJJ4**

14F879

14F881

14F821

14F848

Media

Description	Cap.	Speed	Color	Item No.
Flash Drives				
Store 'n' Go USB Flash Drive	8 GB	5 MBps	Red	**14F879**
	16 GB	5 MBps	Red	**14F884**
	32 GB	—	Red	**14F892**
	64 GB	—	Red	**14F896**

Description	Cap.	Item No.
Memory Cards		
CompactFlash Memory Card	4 GB	**14F868**
Premium SDHC Memory Card	4 GB	**14F881**
	8 GB	**14F885**

Description	Cap.	Speed	Time	Item No.	Pkg. Qty.
CDs, DVDs, Blue Rays					
CD-R Disc	700 MB	52x	80 min	**14F821**	100
DVD+R Disc	4.7 GB	16x	120 min	**14F848**	100

6PKP2

6PKP5

Corded Mouse and Wireless Keyboard Mouse Set

6PKP2—Fingertip control allows fast, accurate back and forth cursor movement. Contoured shape provides comfortable use. Trackball reduces hand and wrist motion.

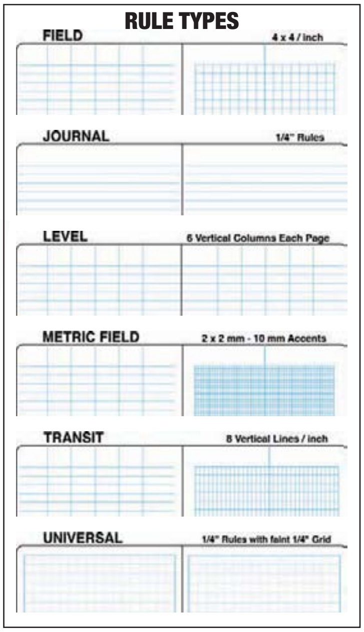
6PKP5—Spill-resistant board has convenient and essential keys, giving direct access to media, calculator, and battery check functions. Easy to plug and play USB connection. Keyboard extends with adjustable tilt legs. Included contoured-shaped mouse fits comfortably in either palm and provides precise tracking and cursor control.

Corded/ Wireless	Compatible With	Features	Includes	No. of Buttons	Connector Type	Item No.
Optical Trackball Mouse						
Corded	Mac OS X 10.3.9 and Later, Windows XP, Vista	Trackman Mobile Mouse	—	2	USB/PS2	**6PKP2**
Keyboard/Mouse Set						
Wireless	Windows 7, Windows Vista, Windows XP	Scroll Wheel and 30 ft Wireless Range	(2) AA (Keyboard) and (1) AAA (Mouse) Batteries	3	USB	**6PKP5**

Task Specific
3WHC8

General Purpose
10R352

General Purpose
3WHD3



10R312

Rite in the Rain ALL-WEATHER WRITING PAPER

All-Weather Notebooks, Paper & Pens

These notebooks withstand work conditions in construction and utilities, agricultural, survey and engineering, forestry, and mining applications. Covers and pages resist water, sweat, oils, grease, and mud.

Rule	Sheet Size	Paper Weight	Backing	Cover Color	Number of Sheets	Item No.	Pkg. Qty.
Task Specific							
Nonwirebound, Fabrikoid Cover							
Field	4¾ in x 7½ in	32 lb	Polydura	Yellow	80	**10R341**	1
Level	4¾ in x 7½ in	32 lb	Polydura	Yellow	80	**10R340**	1
Metric Field	4¾ in x 7½ in	32 lb	Polydura	Yellow	80	**10R342**	1
Transit	4¾ in x 7½ in	32 lb	Fabrikoid	Yellow	80	**10R339**	1
Nonwirebound, Field Flex Cover							
Tally	3½ in x 8 in	20 lb	Fabrikoid	Yellow	70	**18A107**	1
Nonwirebound, Notebooks with Numbered Pages, Field Flex Cover							
Field	4⅝ in x 7 in	32 lb	Fabrikoid	Yellow	24	**38TD89**	3
Level	4⅝ in x 7 in	32 lb	—	Yellow	24	**38TD88**	3
Metric Field	4⅝ in x 7 in	32 lb	—	Yellow	24	**38TD90**	3
Wirebound, Polydura Cover							
Field	4⅝ in x 7 in	32 lb	Polydura	Yellow	32	**3WHC8**	1
Level	4⅝ in x 7 in	32 lb	Fabrikoid	Yellow	32	**3WGK9**	1
Metric Field	4⅝ in x 7 in	32 lb	Polydura	Yellow	32	**3WHF5**	1
Transit	4⅝ in x 7 in	32 lb	Polydura	Yellow	32	**3WGK7**	1
General Purpose							
Nonwirebound, Fabrikoid Cover							
Blank	4¾ in x 7½ in	32 lb	Fabrikoid	Yellow	80	**10R352**	1
Journal	4¾ in x 7½ in	32 lb	Polydura	Yellow	80	**3WHC4**	1
Nonwirebound, Field Flex Cover							
Universal	3½ in x 5 in	20 lb	—	Green	56	**3WGZ5**	1
Universal	3½ in x 5 in	20 lb	—	Tan	56	**3WGZ4**	1
Universal	3½ in x 6 in	20 lb	—	Green	60	**3WGZ7**	1
Universal	3½ in x 6 in	20 lb	—	Tan	60	**3WGZ6**	1
Universal	3½ in x 5 in	20 lb	Fabrikoid	Yellow	56	**10R337**	1
Universal	4⅝ in x 7¼ in	32 lb	Field Flex	Yellow	64	**10R335**	1
Nonwirebound Notebooks with Numbered Pages, Field Flex Cover							
Journal	4⅝ in x 7 in	32 lb	Hard Cover	Yellow	24	**38TD93**	3
Universal	4⅝ in x 7 in	32 lb	Polydura	Yellow	24	**38TD91**	3
Wirebound, Polydura Cover							
Journal	4⅝ in x 7 in	32 lb	Hard Cover	Yellow	32	**3WHC7**	1
Universal	3 in x 5 in	20 lb	Polydura	Yellow	50	**3WHD3**	1
Universal	4 in x 6 in	20 lb	Polydura	Yellow	50	**3WHD4**	1
Universal	4⅝ in x 7 in	32 lb	Field Flex	Yellow	32	**10R328**	1
Universal	8½ in x 11 in	32 lb	Field Flex	Yellow	42	**3WHG3**	1
Wirebound, Top-Spiral, Polydura Cover							
Universal	3 in x 5 in	20 lb	—	Green	50	**3WGW7**	1
Universal	3 in x 5 in	20 lb	—	Tan	50	**3WGW9**	1
Universal	4 in x 6 in	20 lb	—	Green	50	**3WGZ9**	1
Universal	4 in x 6 in	20 lb	—	Tan	50	**3WGZ8**	1

Sheet Size	Paper Weight	Color	Finish	Total No. of Sheets	Item No.
All Weather Printer Paper					
8 ½ in x 11 in	20 lb	White	Matte	200	**3XFR7**

Pen Ink Color	Pen Tip	Pen Cap	Barrel Material	Item No.
All-Weather Ballpoint Pens				
Black	0.9 mm	Retractable	Metal	**10R312**
Blue	0.9 mm	Retractable	Metal	**10R313**
All-Weather Pen Ink Refill, Fine Point				
Black	—	—	—	**3WHD6**

TOPS® universal

Lined Notepads

35X014

35X013

35X023

35X025

- 50 sheets per pad

Lined notepads provide space to organize notes and lists. They are bound at the top for quick access to notes, and are backed with sturdy cardstock for support when writing. They can be used to record measurement, create supply lists, and log hours.

Sheet Size	Rule	Paper Color	Chipboard Backing	Brand	Item No.	Pkg. Qty.
5 in x 8 in	Narrow	Canary	29 pt	Tops	**35X014**	12
		White	29 pt	Tops	**35X013**	12
		White	30 pt	Tops	**35X007**	12
		White	40 pt	Tops	**35W986**	12
		White	60 pt	Tops	**35W994**	12
8½ in x 11 in		Canary	30 pt	Universal	**35X065**	12
8½ in x 11¾ in	Legal	Canary	28 pt	Tops	**35X028** †	12
		Canary	28 pt	Tops	**35X022** *	12
		Canary	30 pt	Tops	**35X023**	12
		White	27 pt	Universal	**35X064**	12
		White	28 pt	Tops	**35X025**	12
		White	40 pt	Tops	**35W988**	12

** 2-Hole punch. † 3-Hole punch.*

universal

Wirebound Notebook

- 50 sheets per pad

Opens easily and can be doubled-over for convenient handling while recording measurements, creating supply lists, and logging hours in jobsite applications. The sturdy coils are designed to keep from catching on backpacks, papers, or clothing.

Sheet Size	Rule	Paper Color	Item No.	Pkg. Qty.
3 in x 5 in	Narrow	White	**35X062**	12

Mead Black n' Red TOPS

Nonwirebound Notebooks

35W834

35W809

Smooth binding edges won't snag on clothes or other items. They can be used in jobsite applications to record measurements, create supply lists, and log hours.

Sheet Size	Rule	Paper Color	Cover Color	Cover Material	Total No. of Sheets	Brand	Item No.
7½ in x 9¾ in	College	White	Black	Cardboard	100	Mead	**35W834**
	Legal	White	Black	Cardboard	100	Mead	**35W833**
8¼ in x 5⅝ in	Legal	White	Black	Casebound	96	Black N' Red	**35W809**
8¼ in x 11¾ in	Legal	White	Black	Casebound	96	Black N' Red	**35W808**
7½ in x 9¾ in	Legal	White	Black Marble	Coated Board 1-Side	100	Tops	**35W956**

6YTT6

30LW84

Portfolios

SAUNDERS Samsill

Keep notes and writing instruments organized and protected inside covers with a professional appearance. They include notepads and pockets for storing business cards and promotional materials.

Sheet Size	Cover Color	Brand	Item No.
3½ in x 5½ in	Black	Saunders	**30LW86**
5½" x 8½"	Silver	Saunders	**30LW85**
8½ in x 11 in	Black	Samsill	**6YTT6**
8½ in x 11¾ in	Silver	Saunders	**30LW84**

3-Hole Punch Paper
15U649

Multipurpose Paper
15U674

Laser Paper
15U646

Inkjet Paper
15U662

Standard Copy and Printer Paper

Multipurpose Paper—Multipurpose paper can be used in copiers, laser printers, and plain paper fax machines. Its versatility makes it suitable for small business owners sending and processing work orders, invoices, estimates, and receipts.

Laser Paper—Withstands the high-heat process required to fuse powdered ink, or toner, in place via laser printing. Laser paper produces high-quality color images and text on documents such as design proposals, photographs, flyers, and brochures.

Inkjet Paper—Features high surface strength and even porosity to absorb the liquid ink used in inkjet printing processes. Its structure keeps wet ink from spreading and produces crisp lines for high-quality text and images.

Paper Size Name	Sheet Size	Paper Weight	Brightness	Finish	Color	Brand	Item No.	Pkg. Qty.
Multipurpose Paper								
Letter	8 ½ in x 11 in	20 lb	92	Matte	White	Universal	**24WJ60**	200000
Letter	8 ½ in x 11 in	20 lb	92	Matte	White	Ability One	**31UF71**	10 *
Letter	8 ½ in x 11 in	20 lb	96	Matte	White	Hammermill	**15U643**	5000
Letter	8 ½ in x 11 in	20 lb	98	Matte	Bright White	Universal One	**15U674**	5000
Letter	8 ½ in x 11 in	24 lb	96	Matte	White	Hammermill	**15U644**	5000
Letter	8 ½ in x 11 in	28 lb	100	Matte	Photo White	Hammermill	**15U639**	500
Legal	8 ½ in x 14 in	20 lb	96	Matte	White	Hammermill	**15U645**	500
Legal	8 ½ in x 14 in	28 lb	100	Matte	Photo White	Hammermill	**15U640**	500
Tabloid	11 in x 17 in	28 lb	100	Matte	Photo White	Hammermill	**15U641**	500
Laser Paper								
Letter	8 ½ in x 11 in	24 lb	98	Matte	White	Hammermill	**15U646**	500
Letter	8 ½ in x 11 in	24 lb	98	Matte	White	Hammermill	**15U649**	500 *
Letter	8 ½ in x 11 in	32 lb	94	Glossy	White	Hammermill	**15U654**	300
Letter	8 ½ in x 11 in	32 lb	100	Matte	Ultra White	Hp	**15U661**	500
Legal	8 ½ in x 14 in	24 lb	98	Matte	White	Hammermill	**15U647**	500
Tabloid	11 in x 17 in	24 lb	98	Matte	White	Hammermill	**15U648**	500
Inkjet Paper								
Letter	8 ½ in x 11 in	24 lb	100	Matte	Bright White	Hp	**15U662**	500

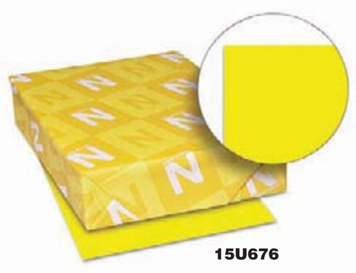
*** 3-Hole punched.**

Wide-Format Paper Rolls

Suitable for printing large-format visuals in high-production CAD, AEC, and GIS segment environments. Rolls can be used with compatible wide-format printers to produce high-quality posters, presentations, and retail displays.

L	W	Paper Weight	Paper Color	Brand	Item No.	Pkg. Qty.
75 ft	36 in	5 mil	Clear	Hp	**19NV81**	1
100 ft	42 in	7.4 mil	White	Hp	**19NV89**	1
127 ft	4 ⅜ in	—	White	Universal One	**45GZ07**	50
150 ft	24 in	4.2 mil	White	Hp	**19NX38**	1
150 ft	24 in	24 lb	White	Hp	**19NX34**	1
150 ft	24 in	24 lb	White	Hp	**19NW99**	1
150 ft	36 in	24 lb	White	Hp	**19NX08**	1
150 ft	42 in	4.9 mil	White	Hp	**19NW44**	1

15U667



15U676

Colored Multipurpose Paper

Suitable for use in both inkjet and laser printers, including copiers and plain paper fax machines. This versatile, matte finish paper is ideal for color-coding documents, such as work orders, invoices, estimates, and receipts for quick identification. Additional colors available on Grainger.com.

Paper Size Name	Sheet Size	Paper Weight	Color	Brand	Item No.	Pkg. Qty.
Letter	8 ½ in x 11 in	20 lb	Green	Universal One	**15U667**	500
Letter	8 ½ in x 11 in	20 lb	Orchid	Universal One	**15U672**	500
Letter	8 ½ in x 11 in	24 lb	Lunar Blue	Neenah Paper	**15U675**	500
Letter	8 ½ in x 11 in	24 lb	Solar Yellow	Neenah Paper	**15U676**	500

15U666

Glossy Finish Photo Paper

Offers a bright photo finish with vibrant white color. This paper is thicker and denser than standard paper, allowing it to absorb ink for high-quality photos and color images. It also dries quickly, which reduces wait times when producing presentation documents and portfolio images.

Paper Size Name	Sheet Size	Paper Weight	Item No.	Pkg. Qty.
A6	4 in x 6 in	11 mil	**15U664**	100
Letter	8 ½ in x 11 in	8 mil	**15U666**	50

We Have Ink and Toner Online

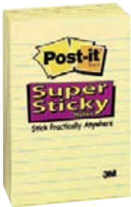
Find OEM and Remanufactured Ink and Toner from HP, Lexmark, Clover Technologies and more at Grainger.com®, search for Ink and Toner Cartridges.

OEM Cartridges

Remanufactured Cartridges

29PK94

2NU75



2NU74

2VZD8

Post-it Super Sticky Notes

- Ideal for vertical and hard-to-stick places

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
3 in x 3 in	Unruled	Yellow	90	**29PK94**	12
3 in x 3 in	Unruled	Assorted Bright	90	**2NU75**	5
3 in x 3 in	Unruled	Assorted Pastel	90	**29PK95**	12
3 in x 5 in	Unruled	Yellow	90	**29PL04**	12
4 in x 4 in	Ruled	Yellow	90	**2NU78**	6
4 in x 4 in	Ruled	Yellow	90	**1AYC5**	12
4 in x 4 in	Ruled	Assorted Pastel	90	**29PL10**	6
4 in x 6 in	Ruled	Yellow	90	**2NU74**	5
4 in x 6 in	Unruled	Assorted Pastel	45	**2NU83**	8
6 in x 8 in	Unruled	Assorted Pastel	45	**2NU84**	4
Sticky Notes—Product Contains a Minimum of 30% Post-Consumer Recycled Content					
3 in x 3 in	Unruled	Assorted Pastel	90	**2VZD8**	5
4 in x 4 in	Ruled	Assorted Pastel	90	**2VZE1**	6

1TRW1

29PL34

Post-it Pop-Up Note Refills

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
3 in x 3 in	Unruled	Yellow	90	**1TRW1**	12
Sticky Notes, Original					
3 in x 3 in	Unruled	Assorted Bright	100	**29PL34**	12

29PK97

29PL07

29PL01

29PL02

Post-it Original Notes

Size	Rule	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Notes					
3 in x 3 in	Unruled	Yellow	100	**29PK96**	18
3 in x 3 in	Unruled	Assorted Bright	100	**29PK97**	14
3 in x 5 in	Unruled	Yellow	100	**29PL05**	24
4 in x 4 in	Ruled	Yellow	300	**29PL11**	2
4 in x 6 in	Ruled	Assorted Pastel	100	**29PL07**	5
Sticky Notes—Product Contains a Minimum of 30% Post-Consumer Recycled Content					
3 in x 3 in	Unruled	Yellow	100	**29PL01**	12
3 in x 3 in	Unruled	Assorted Pastel	100	**29PL02**	12
3 in x 5 in	Unruled	Yellow	100	**29PL06**	12

29PL17

2VZE8

2VZE9

2UY41

29PL18

2VZE6

Post-it Flags and "Sign Here" Flags

Size	Color	Number of Sheets	Item No.	Pkg. Qty.
Sticky Flags				
½ in x 1 ¾ in	Assorted Bright, Assorted Primary	35	**29PL17**	10
1 in x 1 ¾ in	Orange	50	**2VZE8**	2
1 in x 1 ¾ in	Purple	50	**2VZE9**	2
Sticky Flag and Arrow Set				
1 in x 1 ½ in, ½ in x 1 ¾ in	Assorted Bright	96 Arrows, 100 Flags	**2UY41**	1
"Sign Here" Sticky Flags				
½ in x 1 ¾ in	Assorted Primary	30	**29PL18**	4
1 in x 1 ¾ in	Yellow	50	**2VZE6**	2
"Sign Here" Sticky Arrows				
½ in x 1 ¾ in	Red	20	**2VZF2**	4

Single-Sided Transparent Office Tape & Dispensers

3M Scotch

- 1" core dia.
- 2.3 mil thickness

Tape is designed for general purpose sealing of envelopes, hanging paper notices, and light mending of documents. It is nearly invisible when applied and undetectable when photocopied.

Imperial Tape WxL	Tape Finish	Tape Backing Material	Item No.	Pkg. Qty.
3M Scotch 810				
¾ in x 108 ft	Matte	Acetate	**2A684**	1
¾ in x 83 ⅓ ft	Matte	Acetate	**29PL25**	6
¾ in x 83 ⅓ ft	Matte	Acetate	**2NU69**	10
¾ in x 83 ⅓ ft	Matte	Acetate	**29PL21**	12
¾ in x 83 ⅓ ft	Matte	Acetate	**29PL22**	16
¾ in x 83 ⅓ ft	Matte	Acetate	**29PL24**	24
3M Scotch 600				
¾ in x 83 ⅓ ft	Gloss	UPVC	**29PK91**	3

2A684

2NU69

29PK91

2JCK8

29PL19

Description	Max. Tape Width	Construction	Brand	Item No.
Scotch Office Desktop Tape Dispenser				
Black with Non-Slip Foam Rubber Base, 1" Core	¾ in	Plastic	Scotch	**2JCK8**
Scotch Magic ¾" W Transparent Office Tape and Dispenser				
Dispenser and 6 Rolls, 1" Core	¾ in	—	3M	**29PL19**

1AYF3

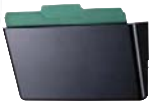
1AYF4

1MLH7

1MLH9

2RLK5

1WDZ9

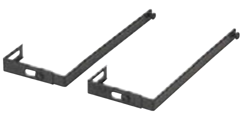

1WEA2

1WDZ7

1WEA1

1WEA5

2RLH6


1WDZ8

Wall Files

Officemate OIC

Description	Type	No. of Compartments	W	H	D	Color	Brand	Item No.	Pkg. Qty.
Wall Racks									
Steel	Letter	3	12 ¼ in	18 ⅞ in	9 in	Black	—	**1AYF3**	1
Steel	Letter	1	12 ¼ in	10 ¼ in	1 ⅜ in	Black	—	**1AYF4**	1
Plastic	Letter/Legal	1	16 ⅝ in	8 ¾ in	3 ⅞ in	Black	Officemate	**1MLH7**	1
Plastic	Letter/Legal	1	15 ¾ in	9 ¾ in	3 ⅛ in	Black	Officemate	**1MLH8**	1
Plastic	Letter/Legal	4	16 ⅝ in	27 ½ in	5 in	Black	Officemate	**1MLH9**	1
Wall File Back Plate and Hangers	Adjustable	—	2 in	12 in	½ in	Black	Officemate	**2RLK5**	1
Wall Pockets									
Plastic	Letter	3	13 in	7 in	4 ⅛ in	Black	Officemate	**1WDZ9**	3
Plastic	Letter	1	13 in	7 in	4 ⅛ in	Black	Officemate	**1WEA2**	1
Plastic	Legal	1	16 ³⁄₁₆ in	7 in	4 ⅛ in	Black	Officemate	**1WEA4**	1
Plastic	Letter	3	13 in	7 in	4 ⅛ in	Smoke	Officemate	**1WDZ7**	3
Plastic	Letter	1	13 in	7 in	4 ⅛ in	Smoke	Officemate	**1WEA1**	1
Plastic	Legal	1	16 ³⁄₁₆ in	7 in	4 ⅛ in	Smoke	Officemate	**1WEA3**	1
Plastic w/Magnetic Backing	Letter	1	13 in	7 in	4 ⅛ in	Smoke	Officemate	**1WEA5**	1
Recycled Plastic	Letter	3	13 in	21 in	4 ⅛ in	Black	Officemate	**2RLH6**	1
Unbreakable Polycarbonate	Letter/Legal	2	17 in	8 in	5 ½ in	Clear	Officemate	**1WEA7**	1
Partition Hangers	Adjustable	—	2 ½ in	7 ¾ in	⅝ in	Black	Officemate	**1WDZ8**	2

1MLK2

1MLK3

1MLK4

1MLK8

1MLL4

1MLL1

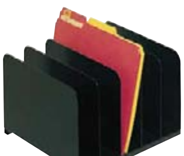
1MLL3

Officemate OIC

Cubicle Organizers and Accessories

Description	D	W	H	Item No.
Tool Tube	3 in	3 in	5 ½ in	**1MLK2**
Pencil Cup	2 ½ in	4 ¼ in	5 in	**1MLK3**
Utility Tray	3 in	12 in	3 ⅜ in	**1MLK4**
Wall File	3 in	13 ½ in	7 in	**1MLK8**
Certificate Holder	½ in	12 ½ in	10 in	**1MLL1**
Magnetic Dry Erase Board	1 in	15 ⅞ in	12 ⅞ in	**1MLL3**
Bulletin Board Cork Bar	⅞"	18 ⅞ in	1 ⅝ in	**1MLL4**

A.


B.

C.

D.

E.

F.

Steel Desktop Organizers

Key	W	H	L	No. of Compart.	File Size	Item No.
File Holders						
A	15 in	9 ¼ in	8 ¾ in	(4) Horizontal	Legal	**1AYE5**
A	12 in	9 ¼ in	8 ¾ in	(4) Horizontal	Letter	**1AYF2**
A	12 in	12 ⅛ in	8 ¾ in	(5) Horizontal	Letter	**1DNP5**
A	12 in	14 ¾ in	8 ¾ in	(6) Horizontal	Letter	**1AYE9**
A	12 in	17 ¾ in	8 ¾ in	(7) Horizontal	Letter	**2KEK8**
B	12 in	8 ⅛ in	11 in	(5) Vertical	Letter	**1AYE6**
B	15 in	8 ⅛ in	11 in	(8) Vertical	Letter	**1AYE8**
C	18 ⅜ in	7 ½ in	8 ⅛ in	(8) Vertical	Letter	**1DNP7**
D	21 ½ in	8 ¾ in	11 in	(3) Horizontal, (6) Vertical	Letter	**2KEK9**
E	11 ⅜ in	21 in	3 ¾ in	(5) Horizontal	Letter	**3MUY4**

Key	W	H	D	No. of Compart.	Item No.
Desktop Organizers					
F	47 ¼ in	18 ⅜ in	9 ½ in	15 w/3 Adjustable Dividers	**2KEJ8**
F	58 ¼ in	18 ¼ in	9 ½ in	17 w/4 Adjustable Dividers	**2KEJ9**

A. 2WFX3

B. 2WFX5

C. 2WFW5

D. 2WFV6

Binder and Bulldog Clips

Key	Size	Holding Cap.	Color	Item No.		Pkg. Qty.
Binder Clips						
A	½ in	¼ in	Black	2WFX3		60
A	¾ in	⅜ in	Black	2WFX4		40
A	1 ¼ in	⅝ in	Black	2WFX6		24
A	2 in	1 in	Black	2WFX8		12
B	¾ in	⅜ in	Assorted	2WFX5	*	40
B	1 ¼ in	⅝ in	Assorted	2WFX7		24
C	1 ¾ in	⅞ in	Silver	2WFW5		2
Bulldog Clips						
D	1 in W	¼ in	Silver	2WFV6		36
D	1¼ in W	7⁄16 in	Silver	2WFV7		36
D	2⅝ in W	⅝ in	Silver	2WFV8		12
D	3 in W	⅞ in	Silver	2WFV9		12
E	1¼ in W	7⁄16 in	Assorted	2WFW2		12
E	2⅝ in W	⅞ in	Assorted	2WFW3		12
E	3 in W	1 in	Assorted	2WFW4		12
F	1 in W	11⁄16 in	Silver	2WFW6	*	2

*** Magnetic.**

E. 2WFW2

F. 2WFW6

Officemate OIC

Metal Paper Clips

Sold in 10 boxes of 100.

1WEB8

Size	Color	Item No.	Pkg. Qty.
No. 1	Silver	1WEB7	1000
Large	Silver	1WEB8	1000

Westcott Since 1872®

Rulers

Key	Graduation Type	Graduations	Size	Item No.
Stainless Steel Rulers				
A	Inch/Metric	1⁄16 in, 1⁄32 in	6 in	10F263
A	Inch/Metric	1⁄16 in, 1⁄32 in	12 in	41N636
A	Inch/Metric	1⁄16 in, 1⁄32 in	15 in	10F264
A	Inch/Metric	1⁄16 in, 1⁄32 in	18 in	41N637
Wood Rulers				
B	Inch	1⁄16 in	12 in	41N623
B	English	⅛ in	36in	41N528
B	Inch/Metric	⅛ in	36in	41N529
Wood Yardstick				
C	Inch/Yard	⅛ in	36 in	10F261
Wood Meter Sticks				
D	Inch/Metric	⅛ in	39in	41N530
D	Inch/Metric	⅛ in	39½ in	10F262

A. 41N636

B. 41N623

C. 10F261

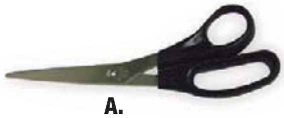
D. 10F262

universal

Rubber Bands

33F198

Size	Length	Width	Color	Item No.	Pkg. Qty.
19 in	3 ½ in	1⁄16 in	Beige	33F198	1240
32 in	3 in	⅛ in	Beige	33F201	820
33 in	3 ½ in	⅛ in	Beige	33F204	640
64 in	3 ½ in	¼ in	Beige	33F199	320
105 in	5 in	⅝ in	Beige	33F196	55
117 in	7 in	⅛ in	Beige	33F205	50
117 in	7 in	⅛ in	Beige	33F202	210


A. 2WFX1

B. 10F271

C. 41N640

D. 41N621

Scissors

Westcott Since 1872®

Key	Handle Description	Blade Material	Overall Length	Item No.	Pkg. Qty.
Approved Vendor					
A	Hard Grip Black Plastic	Steel	8 ¼ in	2WFX1	1
A	Soft Grip Black Plastic	Steel	8 ¼ in	2WFX2	1
Westcott					
B	Straight Gray; Yellow ABS, TPR	Titanium Bonded Stainless Steel	7 in	10F270	1
B	Straight Gray Plastic	Titanium Bonded	8 in	10F271	1
B	Bent Gray; Yellow Plastic	Titanium Bonded Stainless Steel	8 in	10F272	1
C	Straight Gray; Yellow ABS, TPR	Titanium Bonded Stainless Steel	5 in	41N641	1
C	Straight Gray; Yellow ABS, TPR	Titanium Bonded Stainless Steel	7 in	41N640	1
C	Straight Gray Plastic	Titanium Bonded	8 in	41N554	2
C	Straight Gray; Yellow ABS, TPR	Titanium Bonded Stainless Steel	8 in	41N638	1
C	Bent Gray; Yellow Plastic	Titanium Bonded	8 in	10F273	1
D	Straight Blue Plastic	Stainless Steel	7 in	10F276	1
D	Straight Blue Plastic	Stainless Steel	7 in	41N621	1
D	Straight Black Plastic	Stainless Steel	7 in	10F277	1
D	Bent Blue Plastic	Stainless Steel	8 in	10F278	1

1JU68

2LTR4

2LTR5

4AZP6

1TNK7

Correction Fluid and Tape

Liquid Paper®

Description	Item No.	Pkg. Qty.
Correction Fluid, Foam Wedge, 22 mL	1JU68	3
Correction Tape	2LTR4	2
Correction Tape	2LTR5	2
Dryline Recycled	4AZP6	2
Dryline Grip	1TNK7	2

A. 36WE32

VICTOR

Easy Read Ruler

B. 36WE33

Key	Graduation Type	Graduations	Size	Item No.
Plastic				
A	Inch	1⁄16 in, 1⁄32 in, ¼ in, ⅛ in	12 in	36WE32
Stainless Steel				
B	Inch	1⁄16 in, 1⁄32 in, ¼ in, ⅛ in	12 in	36WE33
B	Inch	1⁄16 in, 1⁄32 in, ¼ in, ⅛ in	18 in	36WE34

Officemate OIC

Push Pins

Color	L	H	W	Item No.	Pkg. Qty.
Push Pins					
Clear	½ in	—	—	1WEA9	1200
Assorted	1 in	13⁄16"	—	2WFW7	100
Transparent Assorted	⅞ in	¾"	—	2WFW8	100
Magnetic Tacks					
Assorted	—	¾ in	½ in	2WFW9	30

2WFW7

2WFW9

Swingline

STANLEY BOSTITCH

Staplers and Accessories

Sheet Cap.	Throat Depth	For Use With	Brand	Item No.
Electric Staplers				
20	¼ to 1½ in	¼ in Standard Staples	Swingline	**24Y084**
45	¼ in to ⅞ in	Optima Premium Staples	Swingline	**24Y083**
30	¼ to ¾ in	¼ in Cartridge Staples	Swingline	**1UEB1**
30	¼ to ¾ in	¼ in Cartridge Staples	Swingline	**24Y085**
25	½ in	¼ in Standard Staples	Stanley Bostitch	**35Y644**
45	½ in	¼ in B8 Powercrown Staples	Stanley Bostitch	**35Y658**
Manual Staplers				
20	3 ¼ in	¼ in Staples	—	**2WFT1**
20	2 ¾ in	¼ in Staples	—	**2WFT3**
15	2 in	¼ in Staples	—	**2WFR8**
15	2 in	¼ in Staples	—	**2WFR9**
25	2 in	¼ in Staples	—	**2WFR5**
100	2 ¾ in	½ in Staples, ⅜ in Staples	—	**2WFR7**
Manual Standard Staplers				
20	3 ¾ in	¼ in Staples	Swingline	**24Y087**
Manual Commercial Desk Staplers				
20	4 in	¼ in Staples	Swingline	**24Y081**
Manual Staplers				
25	3 ¼ in	¼ in Staples	Swingline	**2VZF7**
20	4 in	¼ in Staples	Swingline	**2VZG1**
70	2 ¼ in	Optima High Capacity Staples	Swingline	**2VZG6**
160	2 ¾ in	Heavy-Duty Staples	Swingline	**24Y090**
120	2 ¾ in	⅝ in Heavy Duty Staples	Swingline	**1UEB3**
20	2 ½ in	¼ in Staples	Stanley Bostitch	**35Y669**
45	2 ½ in	¼ in Staples, ⅜ in Staples	Stanley Bostitch	**35Y667**
130	2 ½ in	Heavy-Duty Staples	Stanley Bostitch	**35Y653**
215	2 ¾ in	Heavy-Duty Staples	Stanley Bostitch	**35Y659**

Staple Type	Leg Length	Brand	Item No.	Pkg. Qty.
Staples				
Standard	¼ in	—	**2WFU4**	5000
Heavy-Duty	½ in	—	**2WFU5**	1000
Heavy-Duty	⅝ in	—	**2WFU6**	1000
Chisel Point, Standard	¼ in	Swingline	**2VZG5**	5000
Optima High Capacity	⅜ in	Swingline	**2VZG7**	2500
Chisel Point, Optima Premium	¼ in	Swingline	**24Y092**	3750
Chisel Point, Heavy-Duty	⅝ in	Swingline	**1UEB4**	2500
Cartridge, Chisel Point	¼ in	Swingline	**1UEB2**	5000
Chisel Point, Flat Clinch, High-Capacity Premium Cartridge	⅜ in	Swingline	**2VZG3**	5000
B8 Powercrown	¼ in	Stanley Bostitch	**35Y686**	5000
Chisel Point, Heavy-Duty	½ in	Stanley Bostitch	**35Y690**	1000
B8 Powercrown	⅜ in	Stanley Bostitch	**35Y683**	5000
Heavy-Duty	⅜ in	Stanley Bostitch	**35Y687**	5000

Description	Item No.	Pkg. Qty.
Staple Removers		
Pinch Style	**2WFR2**	3
Lever Style	**2WFR3**	1

Paper Punches

SUPPLIER DIVERSITY · Officemate OIC · Swingline · SIRCLE CORP · GBC

Description	Sheet Cap.	Brand	Item No.
One-Hole Paper Punch	6	—	**2WFT9**
Heavy-Duty Slot Hole Paper Punch	12	Sircle	**6HKC1**
Two-Hole Paper Punch	50	Officemate	**1MLJ7**
Two- to Three-Hole Paper Punch	10	Swingline	**24Y099**
Two- to Seven-Hole Paper Punch	20	Swingline	**1UEB6**
Three-Hole Paper Punch	40	—	**2WFT6**
Three-Hole Paper Punch	40	Officemate	**1MLJ8**
Three-Hole Paper Punch	45	Officemate	**1MLJ9**
Two- to Seven-Hole Paper Punch	32	Swingline	**24Y097**
Three-Hole Paper Punch	40	Swingline	**1UEB5**
Two- to Three-Hole Electric Paper Punch	24	GBC	**24Y096**
Three-Hole Electric Paper Punch	50	Swingline	**2VZF9**

LCD Calculators

VICTOR · Texas Instruments

Description	Display Digits	L	W	Brand	Item No.
Pocket	8	4 in	2 ½ in	Victor	**1TLV5**
Pocket	8	4 ¼ in	2 ¼ in	Victor	**1TLV1**
Desktop	10	5 in	4 ½ in	Victor	**1TLV9**
Desktop	12	6 in	7 ½ in	Victor	**36WE05**
Water-Resistant	12	6 ½ in	4 ¼ in	Victor	**2TVZ4**
Executive Desktop	12	7 ¾ in	6 in	Victor	**1TLU8**
Scientific	10	6 in	3 in	Victor	**1TLU9**
Minidesk	8	5 ⅜ in	4 ⅛ in	Texas Instruments	**35W792**
Scientific	10	6 in	3 ⅛ in	Texas Instruments	**35W793**

6XWF0

6XWD2

Pendaflex universal universal one

File Folders and Hanging File Folders

Description	Color	Tab Cut	Expanded Width	Brand	Item No.	Pkg. Qty.	
File Folders							
Top Tab File Folders							
Letter	Manila	⅓	¾ in	Universal	6XWF0	100	
Interior File Folders							
Letter	Manila	⅓	¾ in	Universal	6XWD7	100	*
Letter	Assorted	⅓	¾ in	Universal	6XWD4	100	*
Letter	Blue	⅓	¾ in	Universal	6XWD5	100	*
Letter	Green	⅓	¾ in	Universal	6XWD6	100	*
Letter	Red	⅓	¾ in	Universal	6XWD8	100	*
Letter	Violet	⅓	¾ in	Universal	6XWD9	100	*
Letter	Yellow	⅓	¾ in	Universal	6XWE0	100	*
Pressboard Classification File Folders							
Letter, 4-Section	Red	⅖	2 in	Pendaflex	23K466	10	
Letter, 6-Section	Red	⅖	2 in	Pendaflex	23K358	10	
Legal, 4-Section	Red	⅖	2 in	Pendaflex	23K625	10	
Legal, 6-Section	Red	⅖	2 in	Pendaflex	23K444	10	
Hanging File Folders							
Hanging File Folders							
Letter	Standard Green	—	¾ in	Universal	6XWD2	25	
Legal	Standard Green	—	¾ in	Universal	6XWD3	25	
Hanging Box Bottom File Pockets							
Letter	Standard Green	—	3 ½ in	Universal	6XWE1	10	
Bright Colors Hanging File Folders							
Letter	Assorted	—	¾ in	Universal One	6XWC6	25	
Letter	Blue	—	¾ in	Universal One	6XWC7	25	
Letter	Green	—	¾ in	Universal One	6XWC8	25	
Letter	Red	—	¾ in	Universal One	6XWC9	25	
Letter	Violet	—	¾ in	Universal One	6XWD0	25	
Letter	Yellow	—	¾ in	Universal One	6XWD1	25	
Hanging Folder Plastic Tabs							
Angled, 2 ¼ in W	Clear	—	—	Universal	6XWE2	25	
Angled, 3 ½ in W	Clear	—	—	Universal	6XWE3	25	
SpeedFrame Hanging File Folder Frame							
8 ½ in H x 11 or 14 in W	Rust-Proof Steel	—	—	Pendaflex	23K370	1	

** Tabs shorter to fit in hanging file folders.*

1WEB2

6HCH7

6HCH4

1DPB7

Officemate OIC ELMER'S INSTANT KRAZY GLUE DAP

Glues and Adhesives

Description	Size	Item No.	Pkg. Qty.
Officemate			
Glue Stick	1.3 oz.	1WEB2	12
Elmer's			
Glue-All® Glue	7.625 oz.	6HCH7	1
Glue-All® Glue	1 gal.	6HCJ3	1
Rubber Cement	1 qt.	6HCJ5	1
Krazy Glue			
Instant Krazy® Glue	0.07 oz.	6HCH4	1
	0.07 oz.	6HCH5	4
DAP			
BLUESTIK™ Adhesive Putty	1 oz	1DPB7	1

2LJH5 2LJK1 24Y197 2LJR6

Polypropylene 3-Ring Binders

wilson jones

Binders are made with polypropylene with an inner pocket on each side. Binders with view-sleeve cover feature clear sleeves on the front, back, and spine.

Ring Size	Durability	BLACK Item No.	WHITE Item No.
3-Ring Binder w/Round Ring & Clear Sleeve Cover			
½ in	Standard	2LJH2	2LJH3
1 in	Standard	2LJH4	2LJH5
1 ½ in	Standard	2LJH6	2LJH7
2 in	Standard	2LJH8	2LJH9
3 in	Standard	2LJJ1	2LJJ2

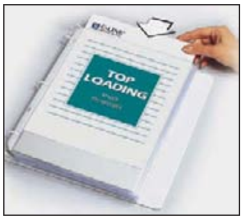
Ring Size	Durability	BLACK Item No.	BLUE Item No.
3-Ring Binder w/Round Ring & Plain Cover			
½ in	Standard	2LJJ3	2LJJ4
1 in	Standard	2LJJ5	—
1 ½ in	Standard	2LJJ7	2LJJ8
2 in	Standard	2LJJ9	2LJK1
3 in	Standard	2LJK2	2LJK3

Ring Size	Durability	BLACK Item No.	WHITE Item No.
3-Ring Binder w/D-Ring Ring & Clear Sleeve Cover			
1 in	Standard	2LJR2	2LJR3
1 ½ in	Standard	2LJR4	2LJR5
2 in	Standard	2LJR6	2LJR7
3 in	Standard	2LJR8	2LJR9
4 in	Standard	2LJT3	—
5 in	Standard	—	2LJT2
1 in	Heavy Duty	—	24Y191
1 ½ in	Heavy Duty	24Y192	24Y193
2 in	Heavy Duty	24Y194	—
3 in	Heavy Duty	24Y196	24Y197
4 in	Heavy Duty	24Y198	—

C-LINE® PRODUCTS, INC.

Binder Sheet Protectors

1PRR2



Provide durable storage for documents and reference material. No need to punch sheets and photo copies will not stick.

Description	Thickness	W	H	Item No.	Pkg. Qty.
Sheet Protectors					
Clear	2 mil	8 ½ in	11 in	1PRR2	50
Nonglare	2 mil	8 ½ in	11 in	1PRR3	50
Antimicrobial	3 mil	8 ½ in	11 in	1PRR1	100
Specialty	2 mil	8 ½ in	11 in	2TDC7	50
Sheet Protector Set, Top Load, 8 Insertable Index Tabs					
Clear Tabs	3 mil	8 ½ in	11 in	1PRR7	8
Multicolor Tabs	3 mil	8 ½ in	11 in	1PRR6	8

QUALITY PARK PRODUCTS

Kraft Coin and Small Parts Envelopes

- Gummed flap
- Light brown color

23K930

H	W	Item No.	Pkg. Qty.
Kraft			
2 ¼ in	3 ½ in	23K930	500
2 ½ in	4 ¼ in	23K990	500
3 ⅛ in	5 ½ in	23L032	500
2 ¼ in	3 ½ in	23K955	500
2 ½ in	4 ¼ in	23K963	500
2 ⅞ in	5 ¼ in	23L084	500
3 ⅛ in	5 ½ in	23K989	500
3 ⅜ in	6 in	23L031	500
3 ½ in	6 ½ in	23K949	500

Mailer Envelopes

- Self-seal

36DZ01 36DY91

Lining	W	L	Color	Item No.	Pkg. Qty.
Poly					
—	6"	9"	White	36DZ01	1000
—	12"	15½"	White	36DZ04	500
Paper					
Bubble	6"	10"	Kraft	36DY91	250
Bubble	8½"	12"	Kraft	36DY95	100

Index Tab Binder Dividers

- 8½" x 11", 3-hole punched

6XVU3

6XVX0

6XVU6

6XVX8

6XVX4

6XVU0

Tab Message	Index Tab Color	Divider Color	No. of Tabs	Mfr. Model	Item No.
Index Maker Print and Apply for Laser and Inkjet Printers					
Blank	White	White	5	7278211416	**6XVU3**
Blank	White	White	8	7278211417	**6XVU4**
Ready Index Customizable Table of Contents for Laser and Inkjet Printers					
A to Z Table of Contents	Multicolor	White	26	7278211125	**6XVU8**
Jan to Dec Table of Contents	Multicolor	White	12	7278211127	**6XVU9**
1 to 5 Table of Contents	Multicolor	Multicolor	5	7278211131	**6XVU5**
1 to 5 Table of Contents	White	White	5	7278211130	**6XVX0**
1 to 8 Table of Contents	Multicolor	White	8	7278211133	**6XVU6**
1 to 8 Table of Contents	White	White	8	7278211132	**6XVX1**
1 to 31 Table of Contents	Multicolor	White	31	7278211129	**6XVU7**

Tab Message	Index Tab Color	Divider Color	No. of Tabs	Mfr. Model	Item No.
Big Tab Insertable with Gold Reinforced Binding Edge for Laser and Inkjet Printers					
Blank	Clear	Buff	5	7278211110	**6XVX9**
Blank	Multicolor	Buff	5	7278211109	**6XVX8**
Blank	Clear	Buff	8	7278211112	**6XVY1**
Blank	Multicolor	Buff	8	7278211111	**6XVY0**
Write and Erase with Gold Reinforced Binding Edge					
Blank	Multicolor	White	5	7278223076	**6XVX5**
Blank	White	White	5	7278223075	**6XVX4**
Blank	Multicolor	White	8	7278223079	**6XVX7**
Blank	White	White	8	7278223078	**6XVX6**
Office Essentials Preprinted Leather-Look					
A to Z Tabs	Black	Buff	25	7278211483	**6XVU0**
Jan to Dec Tabs	Black	Buff	12	7278211484	**6XVU1**
1 to 31 Tabs	Black	Buff	31	7278211485	**6XVU2**

5NHK8

5NHG3

5NHG8

5NHL2

5NHN2

5NHL3

5NHL8

Printer Labels

5NHL5

5NHL7

5NHF3

5NHH7

5NHN5

5NHH2

Easy Peel—Simply bend the sheet to expose the Pop-up Edge for fast peeling.

EcoFriendly—All label paper and packaging consists of 100% recycled materials using chlorine-free processes that are still 100% recyclable. Soy- and vegetable-based inks are derived from renewable sources.

TrueBlock—Totally opaque labels completely cover old labels and markings to allow re-use of mailing tubes, boxes, and more.

WeatherProof—Durable polyester labels have an extra-strong adhesive that resists the moisture, scuffing, tearing, and smudging that can occur in many harsh environments.

Permanent—Holds tight to many surfaces for permanent labeling, unless otherwise noted.

Repositionable—Can be removed and reapplied without damaging the label or envelope. Labels become permanent over time and are guaranteed to not fall off.

Removable—Labels stick, stay, and can be removed cleanly without leaving any residue.

Avery Template No.	Color	Label Height	Label Width	Labels per Sheet	Adhesive	Mfr. Model	Item No.	Pkg. Qty.
Mailing Envelope Labels								
Inkjet Label Easy Peel®								
8,160	White	1 in	2 ⅝ in	30	Permanent	727828160	**5NHJ6**	25
8,195	White	⅔ in	1 ¾ in	60	Permanent	727828195	**5NHJ5**	25
8,460	White	1 in	2 ⅝ in	30	Permanent	727828460	**5NHJ9**	100
8,461	White	1 in	4 in	20	Permanent	727828461	**5NHK0**	100
8,462	White	1 ⅓ in	4 in	14	Permanent	727828462	**5NHK1**	100
8,660	Clear	1 in	2 ⅝ in	30	Permanent	727828660	**5NHK3**	25
8,662	Clear	1 ⅓ in	4 in	14	Permanent	727828662	**5NHK4**	25
8,667	Clear	½ in	1 ¾ in	80	Permanent	727828667	**5NHK2**	25
Laser/Inkjet Label EcoFriendly™								
48,460	White	1 in	2 ⅝ in	30	Permanent	7278248460	**5NHK8**	100
48,467	White	½ in	1 ¾ in	80	Permanent	7278248467	**5NHK7**	100
Laser Address Label								
55,160	White	1 in	2 ⅝ in	30	Repositionable	7278255160	**5NHH6**	100
Laser Label Easy Peel®								
5,160	White	1 in	2 ⅝ in	30	Permanent	7278205160	**5NHG3**	100
5,161	White	1 in	4 in	20	Permanent	7278205161	**5NHG4**	100
5,162	White	1 ⅓ in	4 in	14	Permanent	7278205162	**5NHG5**	100
5,167	White	½ in	1 ¾ in	80	Permanent	7278205167	**5NHG2**	100
5,267	White	½ in	1 ¾ in	80	Permanent	727825267	**5NHF8**	25
5,660	Clear	1 in	2 ⅝ in	30	Permanent	727825660	**5NHG6**	50
5,661	Clear	1 in	4 in	20	Permanent	727825661	**5NHG7**	50
5,662	Clear	1 ⅓ in	4 in	14	Permanent	727825662	**5NHG8**	50
Multipurpose Labels								
Dot Matrix Label								
4,013	White	15/16 in	3 ½ in	1	Permanent	7278204013	**5NHL2**	5000
Laser Label								
6,576	White	1 ¼ in	1 ¾ in	32	Permanent	727826576	**5NHN0**	50
6,577	White	⅝ in	3 in	32	Permanent	727826577	**5NHN1**	50
6,578	White	2 in	2 ⅝ in	15	Permanent	727826578	**5NHN2**	50
6,579	White	5 in	8 ⅛ in	2	Permanent	727826579	**5NHN3**	50
Printable File Folder Labels								
Laser/Inkjet Label								
5,029	Clear	⅔ in	3 7/16 in	30	Permanent	7278205029	**5NHL3**	450
Laser/Inkjet Label EcoFriendly™								
45,366	White	⅔ in	3 7/16 in	30	Permanent	7278245366	**5NHL8**	1500
Laser/Inkjet Label TrueBlock® Technology, UltraHold™								
5,026	Blue, Green, Purple, Red, Yellow	15/16 in	3 7/16 in	18	Permanent	7278205026	**5NHL4**	450
5,027	White	15/16 in	3 7/16 in	18	Permanent	7278205027	**5NHL5**	450
5,266	Blue, Green, Red, White, Yellow	⅔ in	3 7/16 in	30	Permanent	727825266	**5NHL7**	750
8,366	White	⅔ in	3 7/16 in	30	Permanent	727828366	**5NHL6**	750
Shipping Box Labels								
Inkjet Label Easy Peel®								
8,663	Clear	2 in	4 in	10	Permanent	727828663	**5NHK5**	25
8,665	Clear	8 ½ in	11 in	1	Permanent	727828665	**5NHK6**	25
Inkjet Label TrueBlock® Technology, UltraHold™								
8,126	White	5 ½ in	8 ½ in	2	Permanent	727828126	**5NHJ1**	25
8,165	White	8 ½ in	11 in	1	Permanent	727828165	**5NHJ2**	25
8,463	White	2 in	4 in	10	Permanent	727828463	**5NHJ3**	100
Laser/Inkjet Label EcoFriendly™								
48,163	White	2 in	4 in	10	Permanent	7278248163	**5NHL0**	100
48,464	White	3 ⅓ in	4 in	6	Permanent	7278248464	**5NHL1**	100
Laser Label Easy Peel®								
5,663	Clear	2 in	4 in	14	Permanent	727825663	**5NHG9**	50
5,664	Clear	3 ⅓ in	4 in	6	Permanent	727825664	**5NHH0**	50
Laser Label TrueBlock® Technology, UltraHold™								
5,126	White	5 ½ in	8 ½ in	2	Permanent	7278205126	**5NHF6**	100
5,163	White	2 in	4 in	10	Permanent	7278205163	**5NHF3**	100
5,164	White	3 ⅓ in	4 in	6	Permanent	7278205164	**5NHF4**	100
5,165	White	11 in	8 ½ in	1	Permanent	7278205165	**5NHF7**	100
5,168	White	3 ½ in	5 in	4	Permanent	7278205168	**5NHF5**	100
5,265	White	8 ½ in	11 in	1	Permanent	727825265	**5NHF2**	25
Laser Mailing Label								
55,163	White	2 in	4 in	10	Repositionable	7278255163	**5NHH7**	100
55,164	White	3 ⅓ in	4 in	6	Repositionable	7278255164	**5NHH8**	100
Sticker, Pin & Clip Name Badges								
Name Badges								
5395	White	—	—	8	Removable	727825395	**5NHN4**	50
5895	White with Blue Border	—	—	8	Removable	727825895	**5NHN5**	50
Weather Resistant Address Labels								
Laser Label WeatherProof™								
5,520	White	1 in	2 ⅝ in	30	Permanent	727825520	**5NHH1**	1500
5,522	White	1 ⅓ in	4 in	14	Permanent	727825522	**5NHH2**	700
Weather Resistant Shipping Labels								
Laser Label WeatherProof™								
5,523	White	2 in	4 in	10	Permanent	727825523	**5NHH3**	500
5,524	White	3 ⅓ in	4 in	6	Permanent	727825524	**5NHH4**	300
5,526	White	5 ½ in	8 ½ in	2	Permanent	727825526	**5NHH5**	100

52XJ15

4YDD1

REC'D JAN 12 2020
REC'D JAN 17 2020

36EA39

Message and Date Stamps

These self-inking stamps feature a shutter mechanism for one-handed operation. Predefined with Multiple Message Options allow users to select from standard office messages along with numbers that can be adjusted according to day, month, and year.

Legend	Stamp Ink Color	Material	Imprint Area H	Imprint Area W	No. of Bands	Item No.
Predefined Single Message						
DATE	Red	Plastic	1 13⁄16 in	1 in	4	**52XJ15**
FAXED	Blue, Red	Metal	5⁄32 in	1 in	4	**4YDC9**
PAID	Blue, Red	Metal	5⁄32 in	1 in	4	**4YDC8**
RECEIVED	Blue, Red	Metal; Plastic	5⁄32 in	1 in	4	**4YDC7**
RECEIVED	Red	Plastic	1 13⁄16 in	1 in	4	**52XJ14**
Predefined with Multiple Message Options						
ANSWERED, BALANCE, C.O.D., CANCELLED, CHARGED, ENTERED, FILED, FILLED, PAID, RECEIVED, RETURNED, SHIPPED	Black	Metal	¼ in	1 ¾ in	5	**4YDD1**
COMPLETED, EMAILED, ENTERED, SCANNED	Blue, Red	Plastic	1 in	1 ¾ in	5	**36EA39**

Numbering Stamps

Bands of numbers and special characters can be configured for custom identification. Self-inking numbering stamps automatically apply fresh ink to the stamp after each use, so they can be operated one-handed and don't require separate ink pads. The stamp's housing is made of metal.

No. of Bands	Imprint Area H	Imprint Area W	Overall L	Overall W	Brand	Item No.
Self-Inking Machine Stamp						
6	3⁄16 in	¾ in	5 ⅜"	2 13⁄16 in	Cosco	**1CZV6**
8	3⁄16 in	1 ½ in	1 ¾"	1 ¼ in	Ability One	**55XD52**
Ink Pad Required Stamp						
6	⅛ in	13⁄16 in	1 ⅛"	3 in	Cosco	**1CZN8**
	⅛ in	13⁄16 in	1 ⅜"	5 ½ in	Cosco	**1CZR5**
	3⁄16 in	1 3⁄16 in	1 ½"	3 ⅜ in	Cosco	**1CZP2**
	3⁄16 in	1 3⁄16 in	2 ¼"	5 ½ in	Cosco	**1CZR8**
	¼ in	1 ¾ in	2 ⅛"	4 ¼ in	Cosco	**1CZP5**
	5⁄16 in	1 ⅞ in	3"	5 in	Cosco	**1CZP8**
	½ in	2 11⁄16 in	4"	7 ⅛ in	Cosco	**1CZR2**
8	⅛ in	1 ⅛ in	1 ⅜"	3 in	Cosco	**1CZN9**
	3⁄16 in	1 ⅝ in	2"	3 ⅜ in	Cosco	**1CZP3**
	¼ in	2 ¼ in	2 ¾"	4 ¼ in	Cosco	**1CZP6**
	5⁄16 in	2 ½ in	3"	5 in	Cosco	**1CZP9**
	½ in	3 9⁄16 in	4 ¼"	7 ⅛ in	Cosco	**1CZR3**
10	⅛ in	1 7⁄16 in	1 ⅝"	3 in	Cosco	**1CZP1**
	⅛ in	1 7⁄16 in	2 ¼"	5 ½ in	Cosco	**1CZR7**
	3⁄16 in	2 1⁄16 in	2 ½"	3 ⅜ in	Cosco	**1CZP4**
	3⁄16 in	2 1⁄16 in	4 ½"	7 ½ in	Cosco	**1CZT1**
	¼ in	2 ⅞ in	2 ¾"	4 ¼ in	Cosco	**1CZP7**
	¼ in	2 15⁄16 in	4 ½"	7 ½ in	Cosco	**1CZT4**
	5⁄16 in	2 ¾ in	4 ½"	7 ½ in	Cosco	**1CZT7**
	5⁄16 in	3 ¼ in	4"	5 in	Cosco	**1CZR1**
	½ in	4 ½ in	5 ⅜"	7 ⅛ in	Cosco	**1CZR4**

1 2 3 4 5 6

1CZN8

D3769

D3766

D3768

D3767

Message Stamps

Self-inking rubber stamps are used to print predefined messages. They have a shutter mechanism for one-handed operation. Housing is made of plastic.

▶CHOOSE: Legend	Stamp Ink Color	Imprint Area Height	Imprint Area Width	Item No.
APPROVED, COMPLETED, COPY, DEPOSIT, E-MAILED with line, ENTERED, ORIGINAL, VOID	Blue	½"	1⅝"	**D3769**
CONFIDENTIAL, COPY, VOID	Blue	½"	1½"	**D3766**
CONFIDENTIAL, DRAFT, FAXED with Box, FILE, FRAGILE, MAILED with line, PAID, PAST DUE, POSTED with Box, RECEIVED with Box, REVISED with Box, RUSH, SCANNED, URGENT	Red	½", 15⁄16"	1⅝", 1¾"	**D3768**
ENTERED, FAXED, PAID, POSTED, RECEIVED	Red	½"	1½"	**D3767**

Pad Required Alphanumeric Stamps

Bands of numbers, letters, and punctuation marks can be configured in any combination for custom messages or identification. Housing is made of metal.

No. of Bands	Character Height	Imprint Area H	Imprint Area W	Overall L	Overall W	Item No.
8	⅛ in	⅛ in	13⁄16 in	5 ¾ in	1 ⅜ in	**1CZT9**
	3⁄16 in	3⁄16 in	1 ⅝ in	8 ½ in	2 ½ in	**1CZU4**
10	⅛ in	⅛ in	1 7⁄16 in	5 ¾ in	1 ½ in	**1CZU1**
	3⁄16 in	3⁄16 in	2 1⁄16 in	8 ½ in	2 ¾ in	**1CZU5**
	¼ in	¼ in	2 ¼ in	9 in	2 13⁄16 in	**1CZU9**
12	⅛ in	⅛ in	1 ½ in	5 ¾ in	2 ½ in	**1CZU2**
	3⁄16 in	3⁄16 in	2 9⁄16 in	8 ½ in	3 in	**1CZU6**
	¼ in	¼ in	2 13⁄16 in	8 ¾ in	4 ¼ in	**1CZV1**
	5⁄16 in	5⁄16 in	3 ⅜ in	10 ½ in	3 ⅝ in	**1CZV5**

1CZT9

AAAAAAAA

Stamp Pads and Ink Refills

Stamp Ink Pads—Saturated with ink, these felt pads are used with rubber stamps to date and number invoices, or to apply seals to official documents. They are enclosed in resealable cases to prevent ink from drying out. They can be replenished with compatible ink refills.

Stamp Ink Refills—Replenish and extend the life of compatible ink pads, self-inking stamps, and pre-inked stamps.

Overall Length	Overall Width	Overall Height	BLACK Item No.	BLUE Item No.	RED Item No.
Stamp Ink Pads					
4 ¼ IN	2 ¾ IN	¼ IN	—	**1DAA5**	—
4 ¼ IN	2 ¾ IN	⅓ IN	—	—	**1DAA4**
4 ¼ IN	2 ¾ IN	½ IN	**1DAA3**	—	—
6 ¼ IN	3 ½ IN	⅝ IN	**1DAA6**	**1DAA8**	**1DAA7**

Size	Pkg. Qty.	BLACK Item No.	BLUE Item No.	RED Item No.
Stamp Ink Refills				
For Pre-Inked Stamps Including Accustamp2				
0.35 oz	1	**1CZZ8**	**1CZZ9**	**1DAA1**
0.35 oz	2	—	—	**1DAA2**
For Self-Inking and Traditional Style Stamps				
0.9 oz	1	**1CZZ7**	—	**1CZZ5**

Stamp Ink Pad 1DAA3

Stamp Ink Refill 1CZZ7

Date Stamps

Print configurable dates on documents. Self-Inking and pre-inked date stamps can be maintained with compatible black ink refills.

Stamp Date Range	Material	Imprint Area H	Imprint Area W	Item No.
Self-Inking				
Jan 01 2019 - Dec 31 2024	Metal	5⁄32 in	⅞ in	**1DAB1**
	Metal	5⁄32 in	1 in	**4YDD4**
	Metal	3⁄16 in	1 ¼ in	**1DAA9**
	Metal	3⁄16 in	1 ½ in	**4YDD3**
	75% Recycled Plastic and Metal	⅞ in	1 in	**3RAP6**
Jan 01 2019 - Dec 31 2025	Plastic	5⁄32 in	1 in	**52XJ13**
Ink Pad Required				
Jan 01 2019 - Dec 31 2024	Metal	3⁄16 in	1 ¼ in	**1CZV8**

JAN 17 2020

4YDD3

JUN 17 2020

1CZV8

Wooden
31UF11

Wooden
6NEC6

Mechanical
2LUC7

Mechanical
1XUZ4

Mechanical
2LTU4

Mechanical
1JU67

Pencils

Point Size	Barrel Color	Material	Includes Eraser	Brand	Item No.	Pkg. Qty.
Wooden						
#2	Yellow	Wood	No	Dixon	**35Y432**	12
#2	Yellow	Wood	Yes	Ability One	**31UF11**	12
#2 HB	Black	Wood	Yes	Paper Mate	**2LTY8**	12
#2 HB	Yellow	Wood	No	Universal	**6NEC6**	144
#2 HB	Yellow	Wood	Yes	Universal	**6NEC8**	12
Mechanical						
0.5 mm	Black	Plastic	Yes	Paper Mate	**2LUC5**	12
0.5 mm	Black	Plastic	Yes	Pentel	**35Y437**	1
0.5 mm	Black	Plastic	Yes	Pentel	**35Y450**	12
0.5 mm	Black, Silver	Plastic, Stainless Steel	Yes	Zebra Pen	**1XUZ4**	1
0.5 mm	Burgundy, Green, Navy, Plum	Plastic	Yes	Paper Mate	**2LTU3**	12
0.7 mm	Blue	Plastic	Yes	Paper Mate	**2LUC7**	12
0.7 mm	Blue, Gray, Green, Red, Yellow	Plastic	Yes	Bic	**35Y430**	12
0.7 mm	Blue, Green, Purple, Red, Smoke, Turquoise	Plastic	Yes	Ability One	**35LX12**	12
0.7 mm	Burgundy, Green, Navy, Plum	Plastic	Yes	Paper Mate	**2LTU4**	12
0.7 mm	Yellow	Plastic	Yes	Paper Mate	**1JU67**	12
0.9 mm	Black	Plastic	Yes	Zebra Pen	**2EJW5**	1
0.9 mm	Yellow	Plastic	Yes	Bic	**35Y479**	12
0.9 mm	Yellow	Plastic	Yes	Pentel	**35Y468**	1

Electric (Battery)
2WFU2

Electric (Plug)
35Y611

Electric (Plug)
2WFU3

Electric (Plug)
35Y610

Electric (Plug)
35Y618

Electric (Plug)
35Y614

Electric (Plug)
41N608

Manual
35Y616

Pencil Sharpeners

Hole Location	No. of Holes	Color	Housing Material	Brand	Item No.
Electric (Battery)					
Front	1	Gray, Green	Plastic	Swingline	**24Y103**
Top	1	Black	Plastic	—	**2WFU2**
Electric (Plug)					
Front	1	Black	Hardened Steel	Stanley Bostitch	**35Y611**
Front	1	Black	Plastic	—	**2WFU3**
Front	1	Blue	Hardened Steel	Stanley Bostitch	**35Y610**
Front	1	Gray	Hardened Steel	Stanley Bostitch	**35Y618**
Front	1	Gray, Green	Plastic	Swingline	**24Y105**
Front	1	Gray, Orange	Plastic	Swingline	**24Y104**
Front	6	Blue	Plastic, Steel	Stanley Bostitch	**35Y615**
Top	1	Black	Plastic, Steel	Stanley Bostitch	**35Y614**
Top	1	Gray	ABS	Westcott	**41N608**
Manual					
Front	8	Black	Rubber Handle, Steel Body	Stanley Bostitch	**35Y616**

Single-Color
Pen Style
5TCG7

Single-Color
Pen Style
1TNG6

Single-Color
Pocket
1TNG1

Single-Color
Wide
2LTK5

Standard Highlighters

- Chisel Tip

Barrel Type	Marker Ink Color	Features	Item No.	Pkg. Qty.
Single-Color Highlighter Packs				
Pen Style	Orange	Liquid	**5TCG9**	12
Pen Style	Pink	Liquid	**5TCG8**	12
Pen Style	Pink	Retractable	**1TNG8**	12
Pen Style	Yellow	Liquid	**5TCG7**	12
Pen Style	Yellow	Retractable	**1TNG6**	12
Pocket	Green	—	**1TNG1**	12
Pocket	Orange	—	**1TNF5**	12
Pocket	Pink	—	**1TNF6**	12
Pocket	Yellow	—	**1TNF9**	12
Wide	Blue	Smear Guard	**2LTK6**	12
Wide	Green	Smear Guard	**2LTK4**	12
Wide	Orange	Smear Guard	**2LTK5**	12
Wide	Pink	Smear Guard	**2LTK2**	12
Wide	Yellow	Smear Guard	**2LTK1**	12

Multicolor
Original
5TCH0

Single-Color
Wide
2LTK1

Multicolor
Wide
2LTK3

Barrel Type	Marker Set Ink Colors	Features	Item No.	Pkg. Qty.
Multicolor Highlighter Sets				
Original	Blue, Green, Orange, Pink, Yellow	Liquid	**5TCH0**	5
Pen Style	Berry, Blue, Coral, Green, Indigo, Orange, Pink, Purple, Red, Yellow	Liquid	**1TNF2**	10
Pen Style	Berry, Blue, Green, Indigo, Orange, Pink, Red, Yellow	Retractable	**1TNE9**	8
Wide	Blue, Green, Orange, Pink, Yellow	Smear Guard	**2LTK3**	12

D7946

D7947

Permanent Paint Markers

Oil-based valve-action pens make glossy, opaque markings on light or dark surfaces. Fast-drying paint formula resists spreading and running when in contact with water or water-based fluids. Create bright, permanent marks with superior adhesion on surfaces including steel and iron, aluminum, pipes and tubes, plastics, glass, rubber, and ceramic.

▶CHOOSE: Marking Tool Color Family	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
Blacks, Reds, Blues, Greens, Yellows, Oranges, Whites, Silvers	Medium	**D7946**	12
Blacks, Reds, Blues, Greens, Yellows, Whites	Fine	**D7947**	12

F5596

4AZK7

4AZK8

Twin Tip Markers

Also known as dual-tip, these markers feature two tips that allow a user to alternate between marking and writing with precision.

Marker Tip Combination	▶CHOOSE: Marker Ink Color	Item No.	Pkg. Qty.
Single-Colors			
Ultra Fine/Fine	Black, Red, Blue	**F5596**	12
Ultra Fine/Fine	Black	**4AZK7**	2
Marker Tip Combination	**Marker Set Ink Colors**	**Item No.**	**Pkg. Qty.**
Multicolors			
Ultra Fine/Fine	Black, Blue, Green, Red	**4AZK8**	4

Fine Tip
4AZL1

Jumbo Tip
2LTH3

Large Tip
2LTH2

Industrial Markers

Designed to make permanent marks on various surfaces, including metal, wood, plastic, glass, and cardboard. They resist impact in demanding applications.

Marking Tool Color Family	Marking Tool Tip Size Group	Item No.		Pkg. Qty.
Blacks	Fine	**4AZL1**		12
Blacks, Blues, Reds	Large	**2LTH2**	*	4
Reds	Jumbo	**2LTH3**		12
Blues	Jumbo	**2LTH4**		12
Blacks	Jumbo	**9LW82**		12

** Pack contains 2 black, 1 blue and 1 red marker.*

Bullet Tip
1JU70

Chisel Tip
1JU73

Chisel Tip
F8500

Fine Tip
4AZK9

Fine Tip
F8631

Fine Tip
F8727

Fine Tip
1TNJ8

Ultra Fine Tip
D7944

Fine Tip
4AZN2

Ultra Fine Tip
2LTG1

Permanent Markers

Felt tips that transfer permanent inks to writing surfaces and building materials. The fast-drying inks are formulated to be waterproof and smear-resistant, making the markers suitable for transferring measurements and cut lines to glass, wood, stone, metal, and some plastics. They can also be used on surfaces that are too moist, oily, or abrasive for pens or pencils.

Marker Tip	▶CHOOSE: Marker Ink Color	Barrel Type	Item No.	Pkg. Qty.
King Size				
Chisel	Black	Wide	**1JU73**	1
Single-Color Markers				
Bullet	White, Yellow	Original	**D7948**	12
Bullet	White	Original	**1JU70**	1
Chisel	Black, Blue, Red	Wide	**F8500**	12
Oversized Chisel	Black	Wide	**1JU72**	1
Fine	Black	Original	**4AZK9**	12
Fine	Black, Blue, Green, Purple, Red	Original	**F8631**	12
Fine	Black, Blue, Red	Original	**F8727**	12
Fine	Bronze, Gold	Original	**K1954**	12
Fine	Silver	Original	**1TNJ8**	12
Ultra Fine	Black, Blue, Red	Original	**D7944**	12

Marker Tip	Marker Set Ink Colors	Item No.	Pkg. Qty.
Multicolor Marker Sets			
Fine	Black, Blue, Red	**4AZN2**	3
Fine	Aqua, Berry, Black, Blue, Brown, Green, Lime, Orange, Purple, Red, Turquoise, Yellow	**1JU54**	12
Fine	Aqua, Berry, Black, Blue, Green, Lime, Magenta, Navy, Orange, Purple, Red, Turquoise	**1TNH6**	12
Ultra Fine	Black, Blue, Red	**2LTF9**	3
Ultra Fine	Aqua, Black, Blue, Green, Lime, Red, Tangerine, Turquoise	**2LTG1**	8
Ultra Fine	Aqua, Berry, Black, Blue, Brown, Green, Lime, Orange, Purple, Red, Turquoise, Yellow	**5TCE7**	12

F8722

China Marker

Water-soluble markers are suitable for marking on any porous and nonporous surfaces. Use on cardboard, ceramics, glass, metal, plastic, paper, and wood.

Marking Tool Surface Material	▶CHOOSE: Color	Marking Tool Tip Shape	Brand	Item No.	Pkg. Qty.
Glass, Metal, Plastic	Black, Red, Yellow, White	Bullet	Sharpie	**F8722**	12
Fabric, Glass, Metal, Plastic, Rubber, Stone, Wood	Green	Bullet	Dixon	**35Y041**	12

Series Clic Stic
6NED5

Series F-301
1XUV4

Series F-402
2EJW6

Series F-701
2EJW1

Series FlexGrip Elite
2LTW1

Series Lubriglide
2LTU7

Series Profile
2LTZ2

Series Soft Feel
35Y374

Series Z-Grip
2EJW2

BIC ZEBRA PAPER MATE

Ballpoint Pens

Pen Ink Color	Pen Tip	Pen Cap	Includes Pen Cushion	Barrel Material	Brand	Item No.	Pkg. Qty.
Series Clic Stic							
Black	1.0 mm	Retractable	No	Plastic	Bic	**6NED5**	12
Blue	1.0 mm	Retractable	No	Plastic	Bic	**6NED6**	12
Red	1.0 mm	Retractable	No	Plastic	Bic	**6NED7**	12
Series F-301®							
Black	0.7 mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**1XUV4**	1
Blue	0.7 mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**1XUV5**	1
Series F-402®							
Black	0.7 mm	Retractable	Yes	Plastic, Stainless Steel	Zebra Pen	**2EJW6**	1
Series F-701®							
Black	0.7 mm	Retractable	Yes	Stainless Steel	Zebra Pen	**2EJW1**	1
Series FlexGrip® Elite™							
Black	0.8 mm	Retractable	No	Plastic	Paper Mate	**2LTW1**	12
	1.0 mm	Retractable	No	Plastic	Paper Mate	**2LTV8**	12
Blue	0.8 mm	Retractable	No	Plastic	Paper Mate	**2LTW2**	12
	1.0 mm	Retractable	No	Plastic	Paper Mate	**2LTV9**	12
Series Lubriglide							
Black	0.8 mm	Retractable	No	Plastic	Paper Mate	**2LTU7**	12
	1.0 mm	Retractable	No	Plastic	Paper Mate	**2LTU5**	12
Blue	0.8 mm	Retractable	No	Plastic	Paper Mate	**2LTU8**	12
	1.0 mm	Retractable	No	Plastic	Paper Mate	**2LTU6**	12
Series Profile®							
Black	1.4 mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ2**	12
Blue	1.4 mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ3**	12
Purple	1.4 mm	Retractable	Yes	Plastic	Paper Mate	**3MNP3**	12
Red	1.4 mm	Retractable	Yes	Plastic	Paper Mate	**2LTZ4**	12
Series Soft Feel							
Black	0.8 mm	Retractable	Yes	Plastic	Bic	**35Y374**	12
	1.0 mm	Retractable	Yes	Plastic	Bic	**6NED2**	12
Blue	0.8 mm	Retractable	Yes	Plastic	Bic	**35Y373**	12
	1.0 mm	Retractable	Yes	Plastic	Bic	**6NED3**	12
Red	1.0 mm	Retractable	Yes	Plastic	Bic	**6NED4**	12
Series Z-Grip							
Black	1.0 mm	Retractable	Yes	Plastic	Zebra Pen	**2EJW2**	12
Blue	1.0 mm	Retractable	Yes	Plastic	Zebra Pen	**2EJW3**	12

Series G2 Premium
35Y296

Series G2 Premium
35Y295

Series G2 Premium
35Y294

Series Uni Super Ink
24U028

Series Uni Super Ink
2LUF9

PILOT uni-ball

Gel Pens & Rollerball Pens

- Plastic barrels
- Comfortable cushion grips

Water- and gel-based inks are less viscous than ballpoint inks, offering smoother and bolder writing, but with longer drying time. They are suitable for signing official documents, checks, and work orders.

Pen Ink Color	Pen Tip	Pen Cap	Barrel Color	Brand	Item No.	Pkg. Qty.
Series G2 Premium						
Black	0.5 mm	Retractable	Clear	Pilot	**35Y296**	12
	0.7 mm	Retractable	Black	Pilot	**6NEC9**	12
	0.7 mm	Retractable	Clear	Pilot	**35Y280**	2
	1.0 mm	Retractable	Clear	Pilot	**35Y202**	12
Black, Blue, Green, Pink, Purple, Red	0.7 mm	Retractable	Black, Blue, Burgundy, Green, Pink, Purple, Red, Turquoise	Pilot	**35Y209**	8
Black, Blue, Red	0.7 mm	Retractable	Black, Blue, Red	Pilot	**35Y278**	3
Blue	0.5 mm	Retractable	Clear	Pilot	**35Y295**	12
	0.7 mm	Retractable	Blue	Pilot	**6NED0**	12
	0.7 mm	Retractable	Clear	Pilot	**35Y279**	2
	1.0 mm	Retractable	Clear	Pilot	**35Y201**	12
Green	0.5 mm	Retractable	Clear	Pilot	**35Y297**	12
	0.7 mm	Retractable	Clear	Pilot	**35Y293**	12
Purple	0.5 mm	Retractable	Clear	Pilot	**35Y298**	12
	0.7 mm	Retractable	Clear	Pilot	**35Y294**	12
Red	0.5 mm	Retractable	Clear	Pilot	**35Y299**	12
	0.7 mm	Retractable	Red	Pilot	**6NED1**	12
	1.0 mm	Retractable	Clear	Pilot	**35Y203**	12
Series Uni Super Ink™						
Black	0.38 mm	Retractable	Transparent	Uni-Ball	**24U028**	12
	0.7 mm	Capped	Gray	Uni-Ball	**2LUC8**	12
	0.7 mm	Retractable	Black	Uni-Ball	**2LUF7**	12
	0.7 mm	Retractable	Gray	Uni-Ball	**5TCH1**	12
	1 mm	Retractable	Transparent	Uni-Ball	**24U024**	12
	1.0 mm	Retractable	Black	Uni-Ball	**5TCH3**	12
Blue	0.38 mm	Retractable	Transparent	Uni-Ball	**24U029**	12
	0.7 mm	Capped	Gray	Uni-Ball	**2LUC9**	12
	0.7 mm	Retractable	Black	Uni-Ball	**2LUF8**	12
	0.7 mm	Retractable	Gray	Uni-Ball	**5TCH2**	12
	1.0 mm	Retractable	Blue	Uni-Ball	**5TCH4**	12
	1.0 mm	Retractable	Transparent	Uni-Ball	**24U025**	12
Red	0.7 mm	Retractable	Black	Uni-Ball	**2LUF9**	12

36WG09

36WG13

Post-it Brand

Dry-Erase Sheets

Apply on painted drywall or steel, glass, finished wood, resurface existing white-boards, or chalkboards.

Description	H	W	Brand	Item No.
Dry-Erase Sheet	36 in	48 in	Post-It	36WG09
	48 in	72 in	Post-It	36WG10
	48 in	96 in	Post-It	36WG11
Dry-Erase Accessory Tray	5 ¼ in	8 7⁄16 in	Post-It	36WG13
Dry-Erase Wallpaper	96 in	48 in	—	49CE70

SMARTSHEETS®

Dry-Erase Sheets on a Roll

Create an instant writing area by clinging to walls, windows, and doors using electrostatic charge. No tape, adhesives, or tacks required. Recyclable plastic film. 40 sheets per box.

Dry-Erase Width	Dry-Erase Height	Item No.
23 ½ in	31 ½ in	5PWH8

32GU39

32GT60

quartet.

Prestige 2 Connects Accessories

Attach to the frame of Prestige 2 whiteboards for added functionality.

Description	Item No.
Marker Holder, Includes 4 EnduraGlide Markers and 1 Eraser	32GU39
Cork Bulletin Bar, 36 in W x 1 in H, Brown/Silver	32GT60
Cork Bulletin Bar, 48 in W x 1 ½ in H, Brown/Silver	32GT61
Cork Bulletin Bar, 96 in W x 1 in H, Brown/Silver	32GT63

F8498

1JY11

2LTN9

24U017

EXPO

Low-Odor Dry-Erase Markers

Wipe off from most nonpourous surfaces with one swipe.

Includes	Tip Size	▶CHOOSE: Ink Color (Marker Sets Include All Colors Listed)	Item No.	Pkg. Qty.
Dry-Erase Markers				
—	Chisel	Black, Blue, Red, Green	F8498	12
Dry-Erase Marker Sets				
—	Chisel	Black, Blue, Green, Red	1JU97	4
Eraser	Chisel	Black, Blue, Brown, Green, Orange, Red	1JY11	1
Cleaner, Eraser	Chisel/Fine	Black, Blue, Green, Red, Brown, Orange, Purple, Yellow	1JY10	1
Cleaner, Eraser	Chisel	Black, Blue, Green, Red	2LTN9	1
Caddy and Eraser	Chisel	Black, Blue, Red, Green	24U017	4

1JY14

EXPO

Dry-Erase Accessories

Description	Item No.	Pkg. Qty.
Dry-Erase Board Cleaner, 8 oz	1JY14	1
Dry-Erase Board Cleaner, 22 oz	4AZJ6	1
Dry-Erase Board Cleaning Wipes, 6 x 9 in	1JY15	50
Dry-Erase Cloth	5NVH6	1
Block Eraser	1JY16	1

39A052

Best-Rite®

Frameless Dry-Erase Surfaces

Flexible lightweight magnetic surface lays flat and features a permanent self-adhesive backing for easy installation to any flat surface. Include magnetic accessory tray.

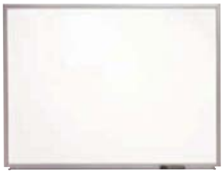
Dry-Erase Height	Dry-Erase Width	Item No.
36 in	48 in	39A050
48 in	48 in	39A051
48 in	72 in	39A052
48 in	96 in	39A053

quartet.

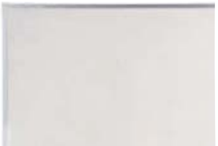
Magnets

Use versatile magnets to post documents or color code important dates on your magnetic board.

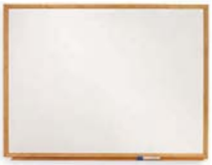
Description	Color	Item No.	Pkg. Qty.
25 Strips, 2 in" W x ⅞ in" H	White	2RXH8	25



Silver
2RXJ5



Silver
1NUP9



Oak
2CY98

quartet

Non-Magnetic Dry-Erase Boards

Melamine surface whiteboards provide a durable platform for brainstorming, project organizing, and taking notes. Wall-mounted.

Quartet—Durable Total Erase surface resists ghosting and staining. Can be mounted vertically or horizontally.

Approved Vendor—U-channel aluminum frame. Include dry-erase marker.

W	H	SILVER FRAME Item No.	OAK FRAME Item No.
Quartet			
24 in	18 in	2RXJ5	—
36 in	24 in	2RXJ6	2CY98
48 in	36 in	2RXJ7	2CY99
72 in	48 in	2RXJ8	2DA10
96 in	48 in	2RXJ9	—
Approved Vendor			
36 in	24 in	1NUP9	—
48 in	36 in	1NUR1	—
72 in	48 in	1NUR2	—
72 in	48 in	1NUP5	—
96 in	48 in	1NUP4	—

Silver

balt

Green-Rite Whiteboard

Environmentally friendly boards contain between 40% and 55% rapidly renewing materials. Provide excellent writability, color contrast with markers, and extreme durability. Wall-mounted.

W	H	SILVER FRAME Item No.
36 in	24 in	15Y257
48 in	36 in	15Y258
48 in	48 in	15Y259
72 in	48 in	15Y260
96 in	48 in	15Y261

8EHU9

9UD44

ghent

Magnetic Porcelain Dry-Erase Boards

Durable whiteboards resists scratching, denting, or staining. Wall-mounted.

W	H	SILVER FRAME Item No.
48 ½ in	36 ½ in	8EHU9
72 ½ in	48 ½ in	9MLX6
96 ½ in	48 ½ in	8RRV2
120 ½ in	48 ½ in	9UD44
144 ½ in	48 ½ in	8XCR0

15Y122

balt

Magne-Rite Magnetic Dry-Erase Boards

PVC-coated steel surface erases cleanly with no ghosting. Round anodized aluminum trim with injection-molded plastic curved corners. PVC-coated steel frame. Wall-mounted.

W	H	SILVER FRAME Item No.
48 in	48 in	15Y122
72 in	48 in	15Y123
96 in	48 in	15Y124

Silver

Contemporary Magnetic Dry-Erase Boards

Steel surface. Include dry-erase marker. Wall-mounted.

W	H	SILVER FRAME Item No.
23 in	16 in	1NUP1
34 in	23 in	1NUP2
48 in	31 in	1NUP3

Black

quartet

Magnetic Dry-Erase Boards

Include dry-erase marker. Wall-mounted.

W	H	Surface Type	BLACK FRAME Item No.
Quartet			
60 in	36 in	Steel	48LW86
60 in	36 in	Porcelain	48LW89
Approved Vendor			
36 in	24 in	Steel	492P18
72 in	48 in	Steel	492P19
48 in	36 in	Steel	492P20

Graphite

Mahogany

Silver/Aluminum

quartet

Prestige 2 Total Erase Whiteboards

Durable stain- and ghost-resistant surface with subtle grid pattern. Include tray. Wall-mounted. Prestige 2 Connects accessories sold separately, see page 1367.

W	H	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER/ALUM. FRAME Item No.
48 in	36 in	32GU13	32GU09	32GU05
72 in	48 in	32GU14	32GU10	32GU06
96 in	48 in	32GU15	32GU11	32GU07

Mahogany

Silver

quartet

Prestige 2 Magnetic Total Erase Whiteboards

Durable surface is stain- and ghost-resistant. Double as a bulletin board and feature subtle grid pattern. Include full-length tray. Wall-mounted. Prestige 2 Connects accessories are sold separately, see page 1367.

W	H	BLACK FRAME Item No.	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER FRAME Item No.
48 in	36 in	32GT96	32GU01	—	32GT88
72 in	48 in	32GT97	32GU02	32GT93	32GT89
96 in	48 in	32GT98	32GU03	32GT94	32GT90
36 in	24 in	—	32GT99	—	32GT87

39A196

W	H	Item No.
36 in	24 in	39A196
48 in	36 in	39A197
48 in	48 in	39A198
72 in	48 in	39A199
96 in	48 in	39A201
120 in	48 in	39A202
144 in	48 in	39A203
192 in	48 in	39A204

balt

Porcelain Steel Magnetic Dry-Erase Boards

Low-gloss surface provides excellent writablilty, erasability with no ghosting, and enhanced visibility with reduced glare. Anodized aluminum trim with full-length tackable map rail and accessory tray. Wall-mounted.

quartet.

Prestige 2 Porcelain Magnetic Whiteboards

Stain-, ghost-, and dent-resistant surface erases cleanly and doubles as a bulletin board. Full-length tray for dry-erase markers. Wall-mounted. Prestige 2 Connects accessories attach to the board frame, sold separately, see page 1367.

W	H	BLACK FRAME Item No.	GRAPHITE FRAME Item No.	MAHOGANY FRAME Item No.	SILVER FRAME Item No.
48 in	36 in	32GT80	32GT84	32GT76	32GT72
72 in	48 in	32GT81	32GT85	32GT77	32GT73
96 in	48 in	32GT82	32GT86	32GT78	32GT74

Black

Graphite

Silver

quartet.

Classic Porcelain Magnetic Whiteboards

Will not stain, ghost, dent, or scratch, and erases cleanly after each use. Also can be used as a bulletin board. Wall mount vertically or horizontally.

W	H	SILVER FRAME Item No.
36 in	24 in	2RXJ1
48 in	36 in	2RXJ2
72 in	48 in	2RXJ3
96 in	48 in	2RXJ4

Enclosed Magnetic Whiteboard

No need for pins. Weather-resistant seal keeps messages protected behind swing-style door. Include showcase lock, 2 keys, and mounting hardware. Wall-mounted.

W	H	GRAY FRAME Item No.
24 in	36 in	2RXC7
36 in	48 in	2RXC8

Gray Frame

Frosted White

Magnetic White

quartet.

Infinity Glass Dry-Erase Boards

Tempered glass surface erases cleanly every time and will not stain or ghost. Magnets included. Wall-mounted.

Magnetic Black

W	H	FROSTED WHITE Item No.	MAGNETIC WHITE Item No.	MAGNETIC BLACK Item No.
24 in	18 in	32GU16	32GU21	32GU26
36 in	24 in	32GU17	32GU22	32GU27
48 in	36 in	32GU18	32GU23	32GU28
72 in	48 in	32GU19	32GU24	32GU29
96 in	48 in	32GU20	32GU25	32GU30

balt MOORECO

Visionary Magnetic Glass Dry-Erase Boards

Borderless and seamless design for a modern image. Gloss white surface is compatible with any dry or wet erase marker or grease pen; cleans easily without ghosting. Include tray, magnets, markers, and eraser. Wall-mounted.

W	H	Brand	Item No.
36 in	24 in	Balt	39A068
48 in	36 in	Mooreco	39A069
72 in	48 in	Balt	39A070
96 in	48 in	Balt	39A071

ghent

Premium Magnetic Glass Markerboards

Include clear acrylic rear-mounted accessory holder, 4 magnets, dry-erase markers, and eraser. Radius corners. Wall-mounted.

Blue

W	H	BLUE Item No.	GREEN Item No.	GRAY Item No.	WHITE Item No.	YELLOW Item No.
36 in	24 in	38ET76	38ET91	38ET96	38EU07	38EU12
48 in	36 in	38ET77	38ET92	38ET97	38EU08	38EU13
48 in	48 in	38ET78	38ET93	38ET98	38EU09	38EU14
72 in	48 in	38ET79	38ET94	38ET99	38EU10	38EU15
96 in	48 in	38ET80	38ET95	38EU01	38EU11	38EU16

Magnetic Changeable Planner Kits

MAGNA VISUAL

Flexible planning systems have everything your organization needs to start planning and tracking a project. Porcelain whiteboard has 1" horizontal lines for easy organization and is magnetic for displaying documents. Each kit includes: 4 dry-erase markers, ⅛" removable chart tape, magnetic felt eraser, ⅞" magnetic strips, ½" press on letters and numbers, and mounting hardware. Wall-mounted.

W	H	Item No.
36 in	24 in	38Y313
48 in	36 in	38Y314

38Y313

Magnetic Planning Kits

MAGNA VISUAL

Multipurpose kit has a 1" x 2" grid pattern on the steel surface, dry-erase whiteboard. Include magnetic strips (5 colors), magnetic round indicators (3 colors), month, day and date headings, black water-soluble marker, and hanging hardware. Wall-mounted.

W	H	Item No.
48 in	36 in	38Y311
72 in	48 in	38Y312

38Y311

Chart Tape

MAGNA VISUAL

Removable vinyl tape helps you create custom tables.

W	L	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.	WHITE Item No.	YELLOW Item No.
1⁄16 in	54 ft	31TW50	31TW53	—	31TW54	31TW51	31TW52
¼ in	27 ft	38Y329	38Y332	38Y333	38Y334	38Y330	38Y331
⅛ in	27 ft	38Y323	38Y326	38Y327	38Y328	38Y324	38Y325

39A091

39A089

Platinum Reversible Boards

balt

Double-sided porcelain white gloss dry-erase board has anodized aluminum trim, rotates 360º, and locks in place with the turn of a knob. Include full-length accessory tray with perforated panel, molded bumpers, and 3" locking casters.

Board Material	W	H	ALUMINUM FRAME Item No.
Magnetic Porcelain Steel	30 in	40 in	39A091
	72 in	48 in	39A090
	96 in	48 in	39A089
Non-Magnetic Dura Rite HPL	30 in	40 in	15Y241
	72 in	48 in	15Y240
	96 in	48 in	39A088

44ZC28

Rolling Reversible Dry-Erase Boards

2-sided steel, white gloss dry-erase boards provide portable writing surface. Include 4 casters.

W	H	ALUMINUM FRAME Item No.
47 in	35 7⁄16 in	44ZC25
74 ¼ in	75 in	44ZC28

19 Rows

quartet.

Prestige 2 DuraMax Magnetic Grid Planning System

Preprinted, perfectly even grid squares make schedules easy to read and organize. Porcelain, white/gray gloss whiteboard resists ghosting, staining, scratches, and dents. Include mounting hardware, 4 markers, 48 round color magnets, and vinyl peel-and-stick letters. Wall-mounted.

W	H	Columns Across	2" X 1" GRID Item No.
48 in	36 in	17	36XP93
72 in	48 in	17	36XP94

Monthly

4-Month

quartet.

Prestige 2 Magnetic Monthly Calendar Boards

Feature generous writing space for each day of the week. Total Erase melamine, white/tan/red gloss will not ghost or stain. Wall-mounted. Prestige 2 Connects accessories attach to the board frame, sold separately on page 1367.

W	H	MONTHLY Item No.	4-MONTH Item No.
36 in	24 in	32GU31	32GU33
48 in	36 in	32GU32	32GU34

Aluminum

Oak Frame

Combination Bulletin Boards

Saves wall space in breakrooms, offices, or warehouses. Wall-mounted.

Description	W	H	ALUMINUM FRAME Item No.	OAK FRAME Item No.
Melamine/Cork	12 in	18 in	1NUH1	1NUK6
	18 in	24 in	1NUH2	1NUL9
	24 in	36 in	1NUH3	1NUL8

30P034

2CY82

Magnetic In/Out Boards

quartet.

Keep track of the itineraries. Porcelain, gloss dry-erase surface. Wall-mounted.

Description	W	H	Board Frame Material	Board Color	Item No.
Matrix					
15-Person	11 in	16 in	Aluminum	White/Gray	30P033
15-Person	23 in	16 in	Aluminum	White/Gray	30P034
15-Person	23 in	34 in	Aluminum	White/Gray	30P035
Classic with DuraMax					
15-Person	24 in	18 in	Aluminum	White/Gray	2CY82
18-Person	11 in	14 in	Plastic	White/Gray	2CY52
36-Person	24 in	36 in	Aluminum	White/Gray	2CY83

6RFD9

quartet.

InView Magnetic Custom Boards

Use online templates and save your design as a PDF to email or take to your local printer. Slip the printed design between the board's frame and the clear, flexible lens that provides a Total Erase writing surface.

Includes	W	H	Item No.
7-Year Warranty, Built-In Marker Tray, Dry Erase Marker, Monthly Calendar Template, Mounting System, Pre-Printed Project Planner	47 ½ in	35 in	6RFD9
	37 ½ in	23 in	6RFE0
	23 in	20 in	6RFE1

19 Rows

quartet.

Prestige 2 DuraMax Magnetic Horizontal Line Planning System

Preprinted horizontal lines for organizing and planning. Total Erase porcelain, white/gray whiteboard resists ghosting, staining, scratches, and dents. Include mounting hardware, 4 markers, 48 round color magnets, and vinyl peel-and-stick letters. Wall-mounted.

W	H	Item No.
36 in	24 in	36XP95
48 in	36 in	36XP96
72 in	48 in	36XP97

3-Month

quartet.

Prestige 2 Sliding Monthly Calendar Board

Sliding panel keeps the current month in the primary position, with generous writing space for each day of the week. Total Erase melamine, white/tan/red gloss surface will not ghost or stain. Wall-mounted.

W	H	Columns Across	3-MONTH Item No.
36 in	24 in	21	32GU36

30P055

2CY79

30P057

30P056

30P059

30P058

Display and Presentation Easels

quartet.

Description	W	H	Adjustable Height Range	Frame Material	Frame Color	Item No.
Display Holder, 5 lb. cap.	—	63 in	15 in to 63 in	Aluminum	Black	30P055
Display Holder	34 in	63 in	Not Adjustable	Aluminum	Black	2CY79
Board Holder	48 in	66 in	38 in to 66 in	Aluminum	Black	30P057
	48 in	66 in	38 in to 66 in	Aluminum	Silver	30P056
Board Holder, 45 lb. cap.	48 in	66 in	38 in to 66 in	Aluminum	Black	30P059
	48 in	66 in	38 in to 66 in	Aluminum	Silver	30P058

ghent

Magnetic Marker Easel

4-legged adjustable easel has a permanently attached aluminum-frame. Includes full-length chart bar and tray.

W	H	Height Adjustment	Frame Material	Frame Color	Item No.
27 in	38 in	38 in to 69¾ in	Aluminum	Silver	10F281

15Y112

15Y113

balt

The Wheasel Easel

Versatile double-sided dry-erase easels are mobile and work well in any environment.

Description	W	H	Surface Type	BLACK STEEL FRAME Item No.
The Wheasel Dry Erase Board with Tray	28 ¾ in	41 in	Melamine	15Y112
The Wheasel Magnetic Dry Erase Board with Tray	28 ¾ in	41 in	Porcelain	15Y113

Cork/Porcelain, Magnetic

Porcelain, Magnetic

Dura-Rite

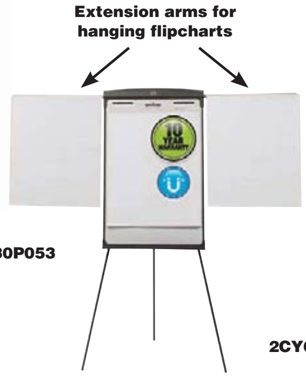
Deluxe Reversible Boards

balt

Double-sided board locks in place with the turn of a knob and easily rotates 360º. Include full-length tray and 3" locking casters. Designed with a wide base for increased stability.

W	H	CORK/PORCELAIN SURFACE MAGNETIC Item No.	PORCELAIN SURFACE MAGNETIC Item No.	DURA-RITE PLASTIC SURFACE Item No.
Aluminum Frame				
30 in	40 in	39A097	39A096	39A098
60 in	48 in	39A101	39A099	39A102
72 in	48 in	39A104	39A103	39A105
96 in	48 in	39A107	39A106	—

No 30P054



30P053

1NUR4

2CY68

quartet.

Dry-Erase Board Easels

30P053 includes extension arms on each side of the easel to hang flip-charts.

Board Properties	W	H	Adjustable Height Range	Frame Material	Frame Color	Surface Type	Brand	Item No.
Non-Magnetic, Reversible	27 in	34 in	40 in to 70 in	Metal	Black	Melamine	Quartet	30P054
Magnetic	27 in	35 in	42 in to 70 in	Metal	Gray	Steel	Quartet	30P053
Non-Magnetic	29 ¼ in	37 ½ in	40 in to 70 in	Aluminum	—	Melamine	—	1NUR4
Non-Magnetic	35 in	26 in	40 in to 67 in	Aluminum	Black	Melamine	Quartet	2CY68

quartet.

Magnetic Dry-Erase Cubicle Boards

Mount to fabric panels or walls. Aluminum board frame.

Description	W	H	Item No.
Magnetic Dry-Erase	24 in	14 in	30P041
Magnetic Dry-Erase	30 in	18 in	30P040
1-Month Magnetic Calendar	30 in	18 in	30P043

30P041

30P043

44ZC27

2RXD7

Sign Holders

Description	Overall Height	Display Size	Item No.
Pedestal Sign Holder	49 in	14 in "W x 11 in H	44ZC27
Enclosed Sign Holder, Wall Mount	12 in	8½"W x 11 in H	2RXD8
	25 in	18 in "W x 24 in H	2RXD7

5YGE8

5YGF0

5YGE9

Sign Holders

Description	Overall Height	Display Size	Item No.
Single-Sided, Wall Mount	11 in	8½"W x 11 in H	5YGE8
Single-Sided, Free-Standing	11 in	8½"W x 11 in H	5YGF0
Double-Sided, Free-Standing	11 in	8½"W x 11 in H	5YGE9

2RXK1

2RXK3

30P063

Sign Holders

30P063 sign stand with adjustable telescoping tube and bottom ledge creates flexible surface area, sliding up and down to hold 11" to 40" signs.

Description	Overall Height	Display Size	Item No.
A-Frame, Freestanding, Dry Erase	50 in	24 in "W x 36 in H	2RXK1
Wall Mount	12 in	8½ in "W x 11 in H	2RXK6
Wall Mount	17 in	11 in "W x 17 in H	2RXK5
Wall Mount	36 in	24 in "W x 36 in H	2RXK3
Adjustable Dual-Sided Sign Stand	44 to 73 in	11 in to 40 in	30P063

10F283

Indoor Enclosed Recycled Rubber Boards

Textured surface is made with 90% recycled materials and is self-healing. Feature lockable hinged doors with shatter-resistant acrylic panels.

W	H	Frame Color	No. of Doors	Board Color	Item No.
24 in	36 in	Silver	1	Confetti	10F282
48 in	36 in	Silver	2	Confetti	10F283

29PK88

Post-it Wall and Easel Pads

Stick securely, remove cleanly, and resist marker bleed-through.

Description	Sheet Size	Number of Sheets	Item No.	Pkg. Qty.
Wall Pad, Plain	20 in x 23 in	20	2NU86	1
Tabletop Easel Pad, Plain	20 in x 23 in	20	29PK88	1
Easel Pad, Plain	25 in x 30 in	30	2NU94	4

6MVG1

6MVG2

A-Frame Message Board

Double-sided board has built-in handle.

Description	W	H	Includes	Item No.
Letter Board Sign	24 in	36 in	Double Sided, Plastic Foldable Sign	6MVG1
Letter/Number Kit	22"	28"	2 Panels and 350-Piece 3 in Letter/Number Set	6MVG2

6MVE4

6MVF0

Poster/Sign Pedestal Holders

Poster Frame Pedestals accept 2 panels (not included), each up to ¼" thick.
Sign holders are all-steel with a 36" tall post. Slotted at top, holders accept signs up to 1⁄16" thick.

Overall Height	Display Size	BLACK Item No.	CHROME Item No.
Poster Frame Pedestals			
58 in	14 in "W x 22 in H	6MVE2	6MVE1
58 in	22 in "W x 28 in H	6MVE4	6MVE3
58 in	24 in "W x 36 in H	6MVE6	6MVE5
Sign Holders			
47 in	7 in "W x 11 in H	6MVF5	6MVF0
47 in	8½"W x 11 in H	6MVF6	6MVF1
47 in	14 in "W x 11 in H	6MVF7	6MVF2
64 in	22 in "W x 28 in H	6MVF8	6MVF3
72 in	24 in "W x 36 in H	6MVF9	6MVF4

15Y221

Rubber-Tak Board

Made with recycled rubber for superior resilience. Easy-to-clean surface resists microbes and is sound- and shock-absorbent. Aluminum frame.

W	H	Mfr. Model	TAN BOARD Item No.	BLACK BOARD Item No.	BLUE BOARD Item No.
72 in	48 in	321RG	15Y221	15Y222	—
96 in	48 in	321RH	15Y224	15Y225	15Y226

2RXC9

Enclosed Cork Bulletin Board

Dense, nonporous cork panels provide a resilient tacking surface; holes reseal themselves when pins are removed. Aluminum frame, lockable hinged door. For indoor use only.

W	H	Frame Color	No. of Doors	Board Color	Item No.
24 in	36 in	Gray	1	Gray	2RXC9
36 in	48 in	Gray	1	Gray	2RXD1

Economy Cork Bulletin Boards

Ideal for breakrooms and factory floors.

W	H	Frame Color	Item No.
36 in	24 in	Silver	1NUL7
48 in	36 in	Silver	1NUL6

1NUL7

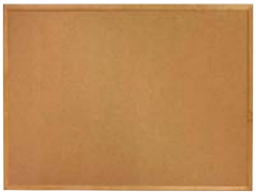
quartet.

Cork Bulletin Boards

Self-healing surface. Includes mounting system.

W	H	SILVER FRAME Item No.	NATURAL FRAME Item No.
72 in	48 in	2CY60	2CY45
96 in	48 in	2CY61	2RXL2
48 in	36 in	—	2CY44

2CY60



2CY45

quartet.

Indoor Enclosed Cork Boards

Easily post signs to board surface. Feature shatterproof locking acrylic doors.

W	H	No. of Doors	SILVER Item No.	LIGHT OAK Item No.
24 in	36 in	1	4W096	3W290
48 in	36 in	2	3W289	4W097
72 in	48 in	3	2CY64	—

3W290

quartet.

4XT51

Outdoor Enclosed Cork Boards

Protect documents from inclement weather. Feature locking, water-resistant, shatterproof acrylic doors.

W	H	Frame Color	No. of Doors	Item No.
24 in	36 in	Silver	1	4XT50
48 in	36 in	Silver	2	4XT51

30P018

30P016

quartet.

30P022

Cork Roll, Tiles, and Display Rails

Roll is self-healing and noise-absorbent. Tiles have self-stick backing to create custom bulletin boards. Roll is 1⁄16" thick, Natural tile is ¼" thick, Dark tile is ⅜" thick. Rails have aluminum frame with ⅝" cork.

Material	W	H	Item No.	Pkg. Qty.
Bulletin Board Roll				
Natural Cork	24 in	48 in	30P018	1
Bulletin Board Tiles				
Natural Cork	12 in	12 in	30P017	4
Dark Cork	12 in	12 in	30P016	4
Bulletin Board Display Rails				
Natural Cork	18 in	1 in	30P019	1
Natural Cork	24 in	1 in	30P020	1
Natural Cork	36 in	1 in	30P021	1
Natural Cork	48 in	1 in	30P022	1

8DYE0

ghent

Indoor Enclosed Cork Boards

Self-healing surface. Lockable hinged doors are covered with shatter-resistant acrylic.

W	H	Frame Color	No. of Doors	Item No.
30 in	36 in	Silver	1	8NG93
36 in	36 in	Silver	1	8ZGK8
48 in	36 in	Silver	2	8AWX0
60 in	36 in	Silver	2	9CW03
60 in	48 in	Silver	2	8DYE0
72 in	36 in	Silver	3	8AWX1
72 in	48 in	Silver	3	8EEV8
96 in	48 in	Silver	3	9EYV0

9GYU9

ghent

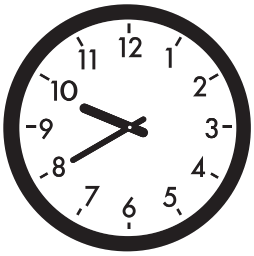
Outdoor Enclosed Vinyl Boards

Protected behind lockable hinged doors with shatter-resistant acrylic. Mount under awning or overhang.

W	H	Frame Color	No. of Doors	Item No.
30 in	36 in	Silver	1	8EAT9
36 in	36 in	Silver	1	8EPT4
48 in	36 in	Silver	2	9ATE1
60 in	36 in	Silver	2	9UF84
60 in	48 in	Silver	2	8ERC6
72 in	36 in	Silver	3	8ERC7
72 in	48 in	Silver	3	9GYU9
96 in	48 in	Silver	3	8RL54

6NN64

2CHZ4



6NN65

6NN67

6NN69

6H356

Battery-Operated Analog Quartz Wall Clocks

Arabic display clocks require manual adjustment for time changes. Operate on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	7 in	6 in	Plastic	Plastic	**6NN64**
Black	14 in	12 ⅛ in	Plastic	Glass	**2CHZ4**
Black	15 in	13 in	Plastic	Glass	**6NN65**
Black	24 in	19 ¼ in	Plastic	Glass	**6NN67**
Burgundy	14 in	10 in	Wood	Glass	**6NN69**
Silver	18 in	15 ¼ in	Plastic	Glass	**6H356**

24/12-Hr. Format Battery-Operated Analog Quartz Wall Clock

Arabic display clock requires manual adjustment for time changes. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	12 in	11 ⅜ in	Plastic	Glass	**2CHZ8**

Radio Controlled/Atomic Battery-Operated Analog Quartz Wall Clock

Arabic display clock automatically adjusts for accurate readings and time changes. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
Black	12 ⅛ in	9 ¾ in	Plastic	Glass	**2CJA3**

Includes Remote Sensor

CONTROL COMPANY
Digital, Traceable®, and Unique Products

Digital Rectangle LCD Wall Clock

Displays giant-sized digits to view time, weather temperature, and humidity. Features alarm settings and automatically adjusts for daylight saving. Operates on (2) AA batteries, not included.

Case Color	H	W	Case Material	Lens Material	Item No.
Black	10 ½ in	16 ½ in	Plastic	Glass	**8YPG2**

Round Arabic Wall Clock

Indoor or outdoor clock is engineered with highly-accurate quartz movement to ensure reliable time keeping. Designed with bold numbers to help you clearly tell time from a distance. Durable, weather-resistant clock is ideal for most job sites, factories, workshops, classroom, or offices. Operates on (1) AA battery, not included.

Case Color	Overall Dia.	Face Dia.	Case Material	Lens Material	Item No.
White	12 ½ in	12 ½ in	Plastic	Polycarbonate	**3LYK5**

PYRAMID

3500 and 3700 Series Time Clocks

15F552

15F553

Track employee time, perform job costing, or date and time stamp documents. Feature 14 preprogrammed messages. 15F553 is heavy-duty to withstand harsh environments.

Description	W	H	D	Item No.
3500 Series Time Clock, Digital LCD Display	6⅜"	5¾"	7"	**15F552**
LCD;3700 Series Heavy-Duty Time Clock, Digital LCD Display	8¼"	8"	6⅝"	**15F553**
Time Clock Replacement Ribbon, Black	2⅜"	3¼"	⅜"	**15F555**
Time Card, Pkg. of 100	4"	9"	—	**15F554**

PYRAMID

7000 Series Wired Synchronized Clock System

1PB82

1PB92

1PB84

Improve productivity and efficiency with perfectly synchronized clocks throughout your facility. Synchronizes up to 200 clocks and supports up to 35 bells, 20 horns and 4 zones. Automatically adjusts for daylight savings time.

Description	W	H	D	Item No.
Timetrax Sync Master Clock Terminal	7 ⅛ in	5 ¼ in	1 ¾ in	**1PB82**
Wired Synchronized Digital Clock	11 ½ in	6 ¼ in	1 ½ in	**1PB92**
Wired Synchronized Analog Clock	13 ¼ in	13 ¼ in	2 ¾ in	**1PB84**
Signal Bell, 24V DC	8 in	8 in	3 ¼ in	**1PB86**

PYRAMID

2650 Series Time Clock

52VT38

6-column printing can accommodate 3 in/out punch intervals for breaks and lunches and 2-color ribbon indicates early/late punches in red ink. Compact design works well in small workplaces. Flexible unit has no employee limit and offers manual or automatic shift options to prevent overprinting on the card.

Description	W	H	D	Item No.
Time Clock, Digital LCD Display	7 ¼ in	8 ½ in	5 in	**52VT38**
Time Cards (100 per Pkg.)	3 ⅜ in	7 ⅜ in	—	**15F550**
Black/Red Time Clock Replacement Ribbon	2½"	2⅝"	1³⁄₁₆"	**52VT39**
Black/Red Time Clock Replacement Ribbon	2¾"	4¾"	1⅜"	**15F551**
Expanding Time Card Rack	4 ⅞ in	8 ¼ in to 34 ½ in	6 ¾ in	**25KK06**
Heavy Duty Time Card Rack	4 ⅝ in	37 in	1 ¾ in	**25KK07**

AMANO CINCINNATI INC.

PIX-95 Series Time Recorder

45TT90

Features include an atomic clock and 60 Hz frequency. Prints regular or military time.

Description	W	H	D	Item No.
Time Clock, Digital LCD Display	6 ¾ in	6 ⅛ in	6 ⅞ in	**45TT90**
Black Replacement Time Clock Ribbon Cartridge	—	—	—	**3VH94**
Double Sided Payroll Time Cards (1000 per Pkg.)	3 ⅜ in	8 ¼ in	—	**6T198**
Job Cost Time Cards (1000 per Pkg.)	3 ⅜ in	8 ¼ in	—	**6T199**

PYRAMID

TimeTrax Sync Synchronized Clock System

4XLA2

4XLA4

15F570

Precisely synchronizes analog or digital clocks throughout an entire facility to help promote productivity and efficiency. Wireless transmitter sends dependable radio frequency time signal to an unlimited number of clocks. Automatically adjusts for daylight saving time or power outages. No FCC license required. 15F569 and 15F570 Clock Bundles include wireless RF wall mount transmitter, TimeTrax Sync software, and 5 analog or digital wireless clocks.

Description	W	H	D	Item No.
Wireless Battery-Operated Analog Clocks				
12/24 Hour	13 ¼ in	13 ¼ in	2 in	**4XLA2** *
12 Hour	13 ¼ in	13 ¼ in	2 ½ in	**2LMU5** *
12 Hour	17 in	17 in	2 in	**4XKZ8** *
Clock Bundle, 12 Hour, Analog, Arabic Display	13 ¼ in	13 ¼ in	2 in	**15F569** *
Wireless Battery-Operated Digital Clocks				
6-Digit, 2.5" Black LCD Digits	11 ¼ in	4 ½ in	1 ½ in	**15F567** *
4-Digit, 4" Red LED Digits	11 ½ in	6 ¼ in	1 ½ in	**2LMU4**
4-Digit, 3" Red LED Digits	11 ½ in	4 ½ in	1 ⅝ in	**15F566**
6-Digit, 2½" Red LED Digits	11 ¼ in	4 ½ in	1 ½ in	**4XLA4**
6-Digit, 4" Red LED Digits	15 ½ in	6 ¼ in	1 ½ in	**4XLA5**
Timer Controller, 6-Digit, 2½" Red LED Digits	11 ⅛ in	4 ½ in	1 ½ in	**4XLA9**
Clock Bundle, 4-Digit, 4" Red LED Digits	11 ½ in	4 ½ in	1 ½ in	**15F570**
Accessories				
RF Wireless Ethernet Transmitter	6 ½ in	6 ½ in	6 ½ in	**2LMU3**
RF Wireless Add-On Transmitter	6 ½ in	5 ⅜ in	1 ¾ in	**2LMU8**
GPS Signal Receiver	2 ½ in	2 ½ in	½ in	**2LMU6**

**** Operate on 3.6V lithium battery, included.***

PYRAMID

Standalone Digital Clocks

38G230

Feature vibrant red LED display and simple setup. 115V, 6 ft. cord.

Description	W	H	D	Item No.
4-Digit	11 ½ in	6 ¼ in	1 ½ in	**38G229**
6-Digit	15 ½ in	6 ¼ in	1 ½ in	**38G230**

AMANO CINCINNATI INC.

TCX-11 Series Time Recorder

4TH70

Automatic or manual punch with large analog dial. Prints regular or military time.

Description	W	H	D	Item No.
Time Clock	6 ⅞ in	8 ¼ in	6 ¼ in	**4TH70**
Black Replacement Time Clock Ribbon Cartridge	—	—	—	**3VH94**
Double Sided Payroll Time Cards (1000 per Pkg.)	3 ⅜ in	8 ¼ in	—	**6T198**
Job Cost Time Cards (1000 per Pkg.)	3 ⅜ in	8 ¼ in	—	**6T199**

AMANO CINCINNATI INC.

Wall-Mount Racks

6T195

6NN73

Hold 25 time cards or badges.

Description	W	H	D	Item No.
Time Card Rack	4 ¼ in	31 in	1 ½ in	**6T195**
Badge Rack	4 ½ in	21 ½ in	¾ in	**6NN73**

AMANO CINCINNATI INC.

MJR-7000 Series Computerized Time Recorder

6H362

Calculates regular and and overtime and totals hours for up to 100 employees. Identifies late arrivals.

Description	W	H	D	Item No.
Computerized Time Clock, Digital LCD	9 ½ in	13 ½ in	8 in	**6H362**
Black Replacement Time Clock Ribbon	—	—	—	**6H364**
Payroll Time Cards (1000 per Pkg.)	3 ¼ in	7 ⅜ in	—	**6H363**
Bell ringer/signal kit for MJR series	—	—	—	**4MC23**

Shredders Cut Style and Security Level Definitions

Strip-Cut—Shreds paper into strands. This style provides the lowest level of security, and is used for nonsensitive information.

Cross-Cut—Shreds paper both lengthwise and widthwise. These shredders create small pieces rather than strips and are used to shred everyday, nonpersonal paperwork.

Micro-Cut—Cuts paper into tiny bits. These shredders are used for sensitive personal information in law firms, medical practices, and accounting firms.

High-Security—Thoroughly destroys confidential documents. These shredders are for any business that needs to securely dispose of highly sensitive documents.

Security Levels—The higher the assigned security level number, the smaller the shredded pieces will be.

Intermittent Duty
7/45 Duty
54JH98

Intermittent Duty
4/15 Duty
54JH97

Intermittent Duty
15/30 Duty
54JJ01

Continuous Duty
54JH81

Continuous Duty
49GU70

Continuous Duty
10K102

Continuous Duty
10K104

Continuous Duty
5NXD9

Continuous Duty
45NJ49

Continuous Duty
45NJ51

Standard Paper Shredders

HSM®

Intermittent Duty—Require brief rest periods between shredding jobs to keep motors cool and functioning properly.

Continuous Duty—Capable of running continuously, without the need to stop and cool down. These shredders are ideal for high-volume shredding jobs.

Shreds	Max. Shredding Capacity	Cut Style	Security Level	Wastebasket Capacity	Shredding Speed	D	H	W	Throat Width	Mfr. Model	Item No.
Intermittent Duty											
7/45 Duty*											
CDs, Credit Cards, Paper, Staples	6 Sheets	Micro-Cut	5	5.3 gal	9 fpm	9 43/64 in	17 ½ in	13 19/32 in	8 ¾ in	shredstar X6pro	**54JH98**
	10 Sheets	Cross-Cut	3	5.3 gal	9 fpm	9 19/32 in	18 19/64 in	13 19/32 in	8 ¾ in	shredstar X10	**54JH99**
4/15 Duty*											
CDs, Credit Cards, Paper, Staples	5 Sheets	Cross-Cut	3	4.8 gal	9 fpm	8 55/64 in	15 15/16 in	13 13/64 in	8 ¾ in	shredstar X5	**54JH95**
	8 Sheets	Cross-Cut	3	4.8 gal	9 fpm	8 55/64 in	15 15/16 in	13 13/64 in	8 ¾ in	shredstar X8	**54JH96**
	10 Sheets	Strip-Cut	2	4.8 gal	8 fpm	9 19/32 in	17 ½ in	13 19/32 in	8 ¾ in	shredstar S10	**54JH97**
15/30 Duty*											
CDs, Credit Cards, Paper, Paper Clips, Staples	12 Sheets	Cross-Cut	3	6.1 gal	9 fpm	11 in	21 45/64 in	15 19/32 in	9 in	shredstar X12	**54JJ01**
	14 Sheets	Cross-Cut	3	6.1 gal	9 fpm	11 in	21 45/64 in	15 19/32 in	9 in	shredstar X14	**54JJ02**
	17 Sheets	Cross-Cut	3	6.9 gal	9 fpm	11 in	21 45/64 in	15 19/32 in	9 in	shredstar X17	**54JJ03**
	20 Sheets	Cross-Cut	3	6.9 gal	9 fpm	11 13/16 in	23 27/64 in	15 23/64 in	9 in	shredstar X20	**54JJ04**
	25 Sheets	Strip-Cut	2	6.9 gal	9 fpm	11 in	21 45/64 in	15 19/32 in	9 in	shredstar S25	**54JJ05**
Continuous Duty											
HSM OF AMERICA											
CD, Credit Cards, Paper, Paper Clips, Staples	19 Sheets	Cross-Cut	4	14.5 gal	13 fpm	15 19/32 in	26 19/32 in	19 19/32 in	9 ½ in	SECURIO B26c	**54JH81**
	30 Sheets	Strip-Cut	2	14.5 gal	13 fpm	15 19/32 in	26 19/32 in	19 19/32 in	9 ½ in	SECURIO B26s	**54JH80**
CD/DVD, Credit Cards, Paper, Paper Clips, Staples	16 Sheets	Cross-Cut	3	9.2 gal	13 fpm	11 ½ in	24 ½ in	15 19/32 in	9 ½ in	Pure 420c	**49GU70**
CDs, Credit Cards, Disks, Paper, Paper Clips, Staples	37 Sheets	Cross-Cut	3	40 gal	18 fpm	22 ½ in	36 29/32 in	23 ½ in	13 in	SECURIO P40C	**10K103**
	49 Sheets	Strip-Cut	2	38.3 gal	18 fpm	21 45/64 in	36 29/32 in	22 51/64 in	13 in	SECURIO P36S	**5NXE2**
	60 Sheets	Strip-Cut	2	40 gal	18 fpm	22 ½ in	36 29/32 in	23 ½ in	13 in	SECURIO P40S	**10K102**
CDs, Credit Cards, Disks, Paper, Paper Clips, Staples, USB	46 Sheets	Cross-Cut	3	55 gal	18 fpm	23 19/64 in	40 13/32 in	27 19/32 in	16 in	SECURIO P44C	**10K105**
	78 Sheets	Strip-Cut	2	55 gal	18 fpm	23 19/64 in	40 13/32 in	27 19/32 in	16 in	SECURIO P44S	**10K104**
CDs, Credit Cards, Paper, Paper Clips, Staples	18 Sheets	Cross-Cut	3	21 gal	13 fpm	14 ¼ in	28 in	19 ½ in	12 in	Pure 530c	**49GU80**
	19 Sheets	Cross-Cut	3	21.7 gal	13 fpm	15 45/64 in	31 13/64 in	19 19/32 in	12 ¼ in	SECURIO B32C	**5NXD9**
	24 Sheets	Cross-Cut	3	26.4 gal	17 fpm	17 19/64 in	33 19/64 in	21 19/64 in	12 ¼ in	SECURIO B34C	**5NXE1**
	24 Sheets	Strip-Cut	2	9.2 gal	13 fpm	11 ½ in	24 ½ in	15 19/32 in	9 ½ in	Pure 420	**49GU73**
	26 Sheets	Cross-Cut	4	34.3 gal	16 fpm	20 19/32 in	34 13/64 in	24 19/64 in	15 ¾ in	SECURIO B35c	**54JH82**
	27 Sheets	Cross-Cut	3	34.3 gal	17 fpm	19 in	35 in	24 13/32 in	12 in	Pure 630c	**49GU69**
	27 Sheets	Cross-Cut	3	38.3 gal	17 fpm	19 in	35 in	24 13/32 in	15 ¾ in	Pure 740c	**49GU67**
	30 Sheets	Strip-Cut	2	21 gal	13 fpm	14 ¼ in	28 in	19 ½ in	12 in	Pure 530	**49GU72**
	30 Sheets	Strip-Cut	2	21.7 gal	13 fpm	15 45/64 in	31 13/64 in	19 19/32 in	12 ¼ in	SECURIO B32S	**5NXD8**
	31 Sheets	Cross-Cut	3	38.3 gal	18 fpm	21 45/64 in	36 29/32 in	22 51/64 in	13 in	SECURIO P36C	**5NXE3**
	37 Sheets	Strip-Cut	2	26.4 gal	17 fpm	17 19/64 in	33 19/64 in	21 19/64 in	12 ¼ in	SECURIO B34S	**5NXE0**
	41 Sheets	Cross-Cut	3	39.6 gal	22 fpm	21 ½ in	37 ½ in	22 45/64 in	13 in	Pure 830c	**49GU66**
	42 Sheets	Strip-Cut	2	34.3 gal	17 fpm	19 in	35 in	24 13/32 in	12 in	Pure 630	**49GU71**
	42 Sheets	Strip-Cut	2	34.3 gal	17 fpm	20 43/64 in	34 ¼ in	24 19/64 in	15 ¾ in	SECURIO B35S	**36GK52**
	42 Sheets	Strip-Cut	2	38.3 gal	17 fpm	19 in	35 in	24 13/32 in	15 ¾ in	Pure 740	**49GU68**
	49 Sheets	Strip-Cut	2	39.6 gal	22 fpm	21 ½ in	37 ½ in	22 45/64 in	13 in	Pure 830	**49GU81**
	150 Sheets	Cross-Cut	3	9 gal	13 fpm	29 3/32 in	15 ½ in	15 in	10 in	AF150c	**45NJ48**
	300 Sheets	Cross-Cut	3	9 gal	13 fpm	32 29/32 in	15 ½ in	17 3/32 in	10 in	AF300c	**45NJ49**
	500 Sheets	Cross-Cut	3	21.7 gal	13 fpm	39 ½ in	19 19/32 in	19 19/64 in	10 in	AF500c	**45NJ50**
Credit Cards, Paper, Paper Clips, Staples	150 Sheets	Micro-Cut	4	9 gal	13 fpm	29 3/32 in	15 ½ in	15 in	10 in	AF150 L4	**45NJ51**
	300 Sheets	Micro-Cut	4	9 gal	13 fpm	32 29/32 in	15 ½ in	17 3/32 in	10 in	AF300 L4	**45NJ52**
	500 Sheets	Micro-Cut	4	21.7 gal	13 fpm	19 21/64 in	39 29/64 in	19 9/16 in	10 in	AF500 L4	**45NJ53**

** Minutes run time/minutes cool down time.*

For Cut Style and Security Level Definitions, see page 1376.

HSM®

High-Security Paper Shredders

These continuous-duty shredders with higher security levels are capable of cutting paper into smaller pieces for additional protection against identify theft and fraud.

Paper Only—Paper-only high-security shredders cross-cut paper into small pieces to prevent exposure of sensitive or confidential data.

Paper and More—These shredders cut paper and other materials into thin, small pieces for protection against identity theft and fraud. They are capable of shredding items such as credit cards, staples, and CDs.

Paper Only
10K108

Paper & More
10K112

Shreds	Security Level	Cut Style	Shred Size	Max. Shredding Capacity	Wastebasket Capacity	D	H	W	Throat Width	Mfr. Model	Item No.
Paper Only											
Paper	6	Cross-Cut	1⁄32 in x 3⁄16 in	14 Sheets	38.3 gal	22 ½ in	36 29⁄32 in	23 ½ in	13 in	SECURIO P36L6	**10K111**
	6	Cross-Cut	1 x 5mm	12 Sheets	26.4 gal	17 19⁄64 in	33 19⁄64 in	21 19⁄64 in	12 ⅕ in	SECURIO B34L6	**10K110**
	6	High-Security	1 x 5mm	7 Sheets	20 gal	13 19⁄32 in	32 19⁄32 in	17 19⁄32 in	10 in	125.2cL6	**1DZA9**
	6	High-Security	1 x 5mm	8 Sheets	9 gal	15 ½ in	23 51⁄64 in	12 ½ in	9 ½ in	SECURIO B24L6	**10K108**
	6	High-Security	1 x 5mm	12 Sheets	31.7 gal	18 ½ in	35 13⁄64 in	19 45⁄64 in	12 in	225.2cL6	**1DZB1**
	7	High-Security	1⁄32 in x 3⁄16 in	16 Sheets	38.5 gal	18 ½ in	37 51⁄64 in	23 13⁄32 in	16 in	Classic 411.2L6	**54JH77**
Paper & More											
CD/DVDs, Paper	6	High-Security	1 x 5mm	14 Sheets	38.3 gal	22 ½ in	36 29⁄32 in	23 ½ in	13 in	SECURIO P36L6 OMDD	**10K112**
Paper, Paper Clips, Staples	6	High-Security	1⁄32 in x 7⁄16 in	150 Sheets	9 gal	15 in	29 3⁄32 in	15 ½ in	9 ½ in	SECURIO AF150L5	**54JH93**
	6	High-Security	1⁄32 in x 7⁄16 in	300 Sheets	9 gal	17 3⁄32 in	32 29⁄32 in	15 ½ in	9 ½ in	SECURIO AF300L5	**54JH94**
	6	High-Security	1⁄32 in x 7⁄16 in	500 Sheets	21 gal	19 19⁄64 in	39 ½ in	19 19⁄32 in	9 ½ in	SECURIO AF500L5	**54JH92**

HSM®

CD and Hard Drive Shredders

These continuous-duty shredders offer secure disposal of data storage media, including hard drives, credit cards, CDs, DVDs, floppy disks, USB sticks, and magnetic tapes. They reduce the digital data carriers into small particles, making data re-creation or recovery virtually impossible, and reducing the possibility of identify theft and fraud.

1DZB4

40N285

Shreds	Cut Style	Max. Shredding Capacity	D	H	W	Mfr. Model	Item No.
CDs, Credit Cards, Floppy Discs	High-Security	2500 Pieces/hr	18 ½ in	37 51⁄64 in	23 13⁄32 in	411.2OMDD	**1DZB4**
Hard Drives and Backup Media	Cross-Cut	2000 Items/hr	120 ⅜ in	66 ¾ in	41 in	HDS230-1	**40N285**
	Cross-Cut	2500 Items/hr	129 ⅞ in	66 ¾ in	41 in	HDS230-2	**40N286**

HSM®

Cardboard Shredders

Cut and perforate used cardboard to convert it into packing material. The resulting product is a soft, perforated layer of padding that offers an alternative to air bubble packaging. These continuous-duty shredders reduce waste by allowing users to re-use cardboard boxes that would otherwise be discarded.

5NXF8

1DZB7

Max. Shredding Capacity	Shredding Speed	D	H	W	Throat Width	Mfr. Model	Item No.
1 Sheet	32 fpm	14 ½ in	14 13⁄64 in	23 7⁄32 in	16 ½ in	Profi Pack 400	**5NXF8**
3 Sheets	33.4 fpm	22 13⁄32 in	40 29⁄32 in	22 13⁄32 in	⅘ in	PROFI PACK P425	**1DZB7**

HSM®

Shredder Bags and Oils

Shredder Bags—Clear plastic HSM shredder bags fit inside compatible HSM shredders for containing and disposing of shredded particles. They help to keep work areas clean by eliminating messes caused by dumping shredder bins. Recyclable.

Shredder Oil—Petroleum-based circulating mineral oil is designed specifically for use in machines and resists rust, oxidation, and wear. It reduces friction between parts and helps reduce squeaks and other noises.

For Use With	Size	Mfr. Model	Item No.
Shredder Bags			
Classic 108, SECURIO B24/AF150/AF300	13 gal	1408	**1DZB8**
Classic 125, Pure 530/630, SECURIO B26/B32/B34/AF500	34 gal	1815	**1DZC5**
Classic 225/386/390/411/412, Pure 740/830, SECURIO B35/P36/P40	58 gal	2117	**1DZC4**

Container Size	Base Oil	ISO Viscosity Grade	Item No.
Shredder Oil			
12 oz	Mineral	32	**1DZC1**
16 oz	Mineral	32	**3AED2**
1 gal	Mineral	32	**1DZC2**

1DZC4

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420R56

487F12

Desktop Label Printers

High speed label printers quickly create paper labels for packages, envelopes, file folders, name badges, and postage. Auto cutter allows for printing 1 or multiple labels at time, eliminating wasted label sheets. Permit users to create and print customized labels. Compatible with Windows, Linux and Mac and integrates with Microsoft Word, Excel, and Outlook. Free download App allows you to design labels with your mobile device when connected to a wireless network. Up to 300 dpi print resolution for crisp text and graphics. Drop-in rolls require no ink or toner.

QL-800—Create easy-peel Black/Red labels with 420R61, sold separately on Grainger.com. Prints up to 93 labels per minute.

QL-1110NWB and QL-1100—Use direct thermal label printing. Automatic crop function lets on-line sellers easily print barcode labels and other product labels from A4/Letter size label sheet templates (Windows only). Prints up to 69 standard labels per minute.

Description	Tape Width	Includes	Item No.
QL-800 Label Printer	2 13/32"	(2) Starter Rolls, AC Adapter, USB Cable	**420R56**
QL1110NWB P-Touch(R) Label Printer - Bluetooth, Ethernet, USB, WiFi Connection	4"	Software, USB Cable, AC Adapter, Quick Setup Guide, Documentation, Die Cut Large Shipping Labels (41 labels) Starter Roll, 2.4 in (62mm) Continuous Length Black on White Paper Tape (8m) Starter Roll	**487F12**
QL1100 P-Touch(R) Label Printer - USB Connection	4"	Software, USB Cable, AC Adapter, Quick Setup Guide, Documentation, Die Cut Large Shipping Labels (41 labels) Starter Roll, 2.4 in (62mm) Continuous Length Black on White Paper Tape (8m) Starter Roll	**487F11**

13C490

30RR08

13C557

13C529

13C558

Item	W	L	Color	Labels Per Roll	Mfr. Model	Item No.	Pkg. Qty.
DK Paper Label Rolls for use with QL Series Printer							
Continuous Label Roll	4 in	100 ft	Black/White	Continuous	DK2243	**13C576**	1
Continuous Label Roll	7/64 in	50 ft	Black/White	Continuous	DK2211	**13C573**	1
Continuous Label Roll	7/64 in	100 ft	Black/White	Continuous	DK2210	**13C572**	1
Continuous Label Roll	2 13/32 in	50 ft	Black/White	Continuous	DK2212	**13C574**	1
Continuous Label Roll	2 13/32 in	100 ft	Black/White	Continuous	DK2205	**13C571**	1
Precut Label Roll	21/32 in	2 9/64 in	Black/White	400	DK1204	**13C561**	1
Precut Label Roll	57/64 in	29/32 in	Black/White	1,000	DK1221	**13C567**	1
Precut Label Roll	2 in	4 in	Black/White	600	DK1240	**13C568**	1
Printer Label	4"	6"	Black/White	200	DK1241	**13C569**	1
Printer Label	1 7/64"	3 1/2"	Black/White	400	DK1201	**13C558**	1
Printer Label	1 7/64"	2 13/32"	Black/White	800	DK1209	**13C564**	1

brother
at your side

Labels and Label Tape

- Find more colors and sizes online, go to Grainger.com and search "Brother Labels and Tape Labels."

Color	W	L	Mfr. Model	Item No.	Pkg. Qty.
Standard Laminated					
Black/Fluorescent Orange	3/4 in	16 ft 4 in	TZeB41	**13C518**	1
	1 13/32 in	26 ft 4 in	TZeB51	**13C519**	1
Black/Red	45/64 in	26 ft 4 in	TZe441	**13C509**	1
Black/White	1/4 in	26 ft 4 in	TZe211	**13C488**	1
	3/8 in	26 ft 4 in	TZe221	**13C489**	1
	1/2 in	26 ft 4 in	TZe231	**13C490**	1
	45/64 in	26 ft 4 in	TZe241	**13C493**	1
	29/32 in	26 ft 4 in	TZe251	**13C496**	1
	1 13/32 in	26 ft 4 in	TZe261	**13C498**	1
Black/Yellow	15/32 in	26 ft 4 in	TZe631	**13C513**	1
	45/64 in	26 ft 4 in	TZe641	**13C514**	1
	29/32 in	26 ft 4 in	TZe651	**13C515**	1
Red on White	47/100 in	26 ft 4 in	TZe232	**13C492**	1
	3/4 in	26 ft 4 in	TZe242	**13C494**	1
	29/32 in	26 ft 4 in	TZe252	**13C497**	1
White/Black	3/4 in	26 ft 4 in	TZe345	**13C505**	1
	29/32 in	26 ft 4 in	TZe355	**13C507**	1
	1 13/32 in	26 ft 4 in	TZe335	**13C503**	1
HSe Tapes					
White	23/100 in	5 ft	HSE211	**30RR08**	1
	17/50 in	5 ft	HSE221	**30RR09**	1
	9/20 in	5 ft	HSE231	**30RR10**	1
	69/100 in	5 ft	HSE241	**30RR11**	1
	93/100 in	5 ft	HSE251	**30RR12**	1
M-Tapes					
Black/Clear	15/32 in	26 ft 4 in	M131	**13C548**	1
Black/White	15/32 in	26 ft 4 in	M231	**13C549**	1
Black/Yellow	15/32 in	26 ft 4 in	MK631	**13C557**	1
TZeFX Tapes					
Black/White	15/32 in	26 ft	TZEFX231	**22KD91**	1
	45/64 in	26 ft	TZEFX241	**22KD92**	1
	15/16 in	26 ft	TZEFX251	**22KD93**	1
	1 13/32 in	26 ft	TZEFX261	**22KD94**	1
Black/Yellow	15/32 in	26 ft	TZEFX631	**22KD95**	1
	15/16 in	26 ft	TZEFX651	**22KD96**	1
Extra-Strength Adhesive					
Black/White	15/32 in	26 ft 2 13/32 in	HGeS2315PK	**23M319**	5
	45/64 in	26 ft 2 13/32 in	HGeS2415PK	**23M320**	5
	15/16 in	26 ft 4 in	HGeS2515PK	**23M321**	5
	1 13/32 in	26 ft 4 in	HGeS2615PK	**23M322**	5
Black/Yellow	15/32 in	26 ft 2 13/32 in	HGeS6315PK	**23M324**	5
	45/64 in	26 ft 4 in	HGeS6415PK	**23M325**	5
	15/16 in	26 ft 4 in	HGeS6515PK	**23M326**	5
	1 13/32 in	26 ft 4 in	HGeS6615PK	**23M327**	5
Extra-Strength Adhesive Laminated					
Black/White	23/64 in	26 ft 2 13/32 in	TZeS221	**13C529**	1
	15/32 in	26 ft 2 13/32 in	TZeS231	**13C530**	1
	45/64 in	26 ft 2 13/32 in	TZeS241	**13C532**	1
	15/16 in	26 ft 2 13/32 in	TZeS251	**13C534**	1
	1 13/32 in	26 ft 2 13/32 in	TZeS261	**13C535**	1
Black/Yellow	23/64 in	26 ft 2 13/32 in	TZeS621	**13C536**	1
	15/32 in	26 ft 2 13/32 in	TZeS631	**13C537**	1
	45/64 in	26 ft 2 13/32 in	TZeS641	**13C538**	1
	15/16 in	26 ft 2 13/32 in	TZeS651	**13C540**	1
	1 13/32 in	26 ft 2 13/32 in	TZeS661	**13C541**	1

4NHL6

4NHL7

4NHL8

23M340

DYMO

LabelWriter Printers and Labels

Print mailing, filing, and media labels from a variety of software programs. Print up to 71 labels per minute. Feature DYMO Label version 8 software to create and print a variety of labels. DYMO Stamps software (included) allows printing USPS-approved postage. All printers include power supply, USB cable, CD user's guide, quick-start guide, and address labels.

LW450 Turbo—Maximizes efficiency with high-speed label printing.

LW450 Twin Turbo—Labeler can hold 2 label rolls at once for even greater efficiency. Includes stamps.

LW450 Duo—Prints paper and plastic labels: top portion uses white paper label rolls; bottom uses permanent D1 label tape cartridges. Includes stamps and ¾" black on white D1 label cartridge.

LW 4XL—Prints labels up to 4.16"W, including 4.1"W x 6.275"L shipping, warehouse, barcode and identification, bulk mailing, and other large-format labels. Thermal printing technology never requires ink or toner.

Description	Printer Resolution	Item No.
LabelWriter Printers		
LW450 Turbo	300 dpi	**4NHL6**
LW450 Twin Turbo	300 dpi	**4NHL7**
LW450 Duo	300 dpi	**4NHL8**
LW 4XL	300 dpi	**23M340**

Description	Labels per Roll	Label H	Label W	Item No.
Printer Labels, White				
Printer Labels for 23M340	220	4 in	6 in	**23M346**
General Purpose Labels	500	2 1/8 in	1 in	**2XZN6**
File Folder Labels	260	3 7/16 in	9/16 in	**2XZN5**
Return Address Labels	500	2 in	¾ in	**1ZTB9**
Address Labels	260	3 ½ in	1 25/64 in	**2XZN4**
Address Labels	260	3 ½ in	1 1/8 in	**2XZN3**
Address Labels	350	3 ½ in	1 1/8 in	**1ZTB7**
Shipping Labels	300	2 5/16 in	4 in	**1ZTB8**
Adhesive Name Badge Labels	250	4 in	2 ¼ in	**2XZN8**

23M342

2RCJ1

4NHN1

DYMO

D1 LabelManager Printers and Labels

Create smearproof labels using thermal transfer technology. Use D1 label tape cartridges.

LM160 with QWERTY Keyboard—Computer-style QWERTY keyboard allows fast text entry. Choose from 6 font sizes, 8 text styles, and 4 boxes plus underline, as well as 228 symbols and clip art images. Format with 1-touch smart keys for text size, bold, italic, underline/box, and vertical text. Large LCD display allows you to preview an image of your label.

LM210D Labeler and Kit—Labeler has a large semigraphical display that displays label before printing. Prints 6 font sizes, 7 styles, 8 boxes, and underline. Includes a ½" black-on-white label cartridge. Requires 6 AA batteries or AC adapter 5AU10, sold separately on page 370. Kit 2RCJ2 comes with a labeler, two ½" black-on-white label cartridges, 6 AA batteries, AC adapter, and carrying case.

LM360D—Prints up to 4 lines of text with choice of 7 font sizes. 1½" x 2¾" display shows 2 lines of label text. Printer comes with lithium-ion battery, AC adapter, and starter label cartridge.

LM500TS with Touch Screen—Create, edit, and format customized labels directly from the full-color touch screen. Choose from 10 fonts, 25 font sizes, and 5 boxes plus underline, 32 text styles, and 325 built-in symbols and clip art images. Create and save user profiles to store settings and data for up to 5 different users. Computer-style keyboard permits fast text entry, while the automatic label cutter speeds cutting.

D1 Label Tape Cartridges—Tape cartridges are 23 ft. long. Durable, polyester-coated labels are scratch and chemical resistant. All cartridges feature easy-peel, split-back tape.

Description	Tape Width	Item No.
D1 LabelManager Printers		
LM160 w/QWERTY Keyboard	Accepts ¼ in, ⅜ in, ½ in	**23M342**
LM210D	Accepts ¼ in, ⅜ in, ½ in	**2RCJ1**
LM210D Kit	Accepts ¼ in, ⅜ in, ½ in	**2RCJ2**
LM360D	Accepts ¼ in, ⅜ in, ½ in, ¾ in	**4NHN1**
LM500TS w/Touch Screen	Accepts ¼ in, ⅜ in, ½ in, ¾ in, 1 in	**23M341**
D1 LabelManager Label Tape Cartridges, 23 ft. L		
Black/Clear	¼ in	**6JG36**
Black/White	¼ in	**6JG37**
Black/Clear	⅜ in	**6JG34**
Black/White	⅜ in	**6JG35**
Red on White	½ in	**2ZRV1**
Black/Green	½ in	**2ZRV3**
Black/Blue	½ in	**5AU29**
Black/Red	½ in	**5AU30**
Black/Clear	½ in	**6JG38**
Black/White	½ in	**6JG39**
White/Black	½ in	**6JG41**
Clear	¾ in	**6JG42**
Black/White	¾ in	**6JG43**
White	1 in	**5AU28**

Handheld Embossing Label Maker and Tape

DYMO

- Accepts ⅜" and ½" tape widths

Office-Mate II Embossing Label Maker—Produces 3/16" H characters by raising the surface of a letter or symbol to make it easier to read or detect rather than using ink. Includes a 0–9 and A–Z character set. Features a jam-free manual tape cutter with automatic tab for easy tape-backing removal. Includes forward and reverse tape control, 0.200" H horizontal character wheel, and one ½" W roll of black vinyl adhesive tape.

Vinyl Embosser Label Tape Rolls—Adhesive labels are designed for indoor or outdoor applications and are more resistant to weather, chemicals, ultraviolet light, and temperature changes than standard paper labels.

Color	W	L	Item No.
Office-Mate II Embossing Label Maker			
Black	—	—	**5AU23**
Vinyl Embosser Label Tape Rolls			
Black	⅜ in	23 ft	**2NCA4**
Red	⅜ in	23 ft	**2NCA2**
Blue	⅜ in	23 ft	**2NCA3**

5AU23

2NCA2

1UEJ8

GBC

Film Laminating Machine and Film

Laminator features EZload technology to prevent incorrect film loading, integrated trimmers, auto shutoff, and fast warm-up times.

Description	Max. Document Width	Max. Document Thickness	Speed	Item No.
Film Laminating Machine				
Ultima 35 EZload	12 in	1.7 to 5 mil	39 in/min	**1UEJ8**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 2		
5 mil	12 in x 100 ft	**1UEK2**
3 mil	12 in x 200 ft	**1UEK1**
1.7 mil	12 in x 300 ft	**1UEJ9**

24Y157

24Y155

24Y158

Pouch Laminating Machines and Pouches

Swingline GBC

Fusion 3100L and 3000L—Green light and audible beep indicate readiness and pouch jams. For medium to small offices. 60-second warm-up.

Fusion 1100L and 1000L—Feature ready indicator light, pouch thickness, and slider switch. Ideal for small projects or home use.

Description	Max. Document Width	Max. Document Thickness	Speed	Brand	Item No.
Pouch Laminating Machines					
Fusion 3100L	12 in	3 mil, 5 mil, 7 mil	31 in/min	GBC	**24Y155**
Fusion 3000L	12 in	3 mil, 5 mil	19 in/min	GBC	**24Y156**
Fusion 1100L	9 in	3 mil, 5 mil	13 in/min	GBC	**24Y157**
Fusion 1000L	12 in	3 mil	13 in/min	GBC	**24Y158**
Fusion 1000L	9 in	3 mil, 5 mil	13 in/min	GBC	**24Y159**

Description	Thickness	W	L	Brand	Item No.	Pkg. Qty.
Laminating Pouches						
Letter, Gloss, UV Coating	3 mil	9 in	11.5 in	GBC	**1UEK8**	100
Letter, Gloss, UV Coating	5 mil	9 in	11.5 in	GBC	**1UEK9**	100
Menu, Gloss, UV Coating	3 mil	11 in	17.5 in	GBC	**1UEL5**	100
Menu, Clear	5 mil	11 ½ in	17.5 in	Swingline Gbc	**24Y160**	100
Letter, Gloss	3 mil	9 in	11.5 in	GBC	**1UEL2**	100
Legal, Gloss	3 mil	9 in	14.5 in	GBC	**1UEL1**	100
ID Badge, Gloss	5 mil	2 9/16 in	3.75 in	GBC	**1UEL6**	25

SIRCLE CORP

Wide-Format Heat Roll Laminating Machine and Film

6HJX6

Laminating machine features a sliding lower idler bar, auto shutoff, and a SmartShaft mandrel for easy film threading and loading. Includes handheld cutter.

Max. Document Width	Max. Document Thickness	Speed	Item No.
Film Laminating Machine			
27 in	1.5 to 3 mil	36 in/min	**6HJX6**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 2		
1.5 mil	18 in x 500 ft	**6HJX7**
1.5 mil	25 in x 500 ft	**6HJX8**
1.5 mil	27 in x 500 ft	**6HJX9**
3 mil	18 in x 250 ft	**6HJY0**
3 mil	25 in x 250 ft	**6HJY1**
3 mil	27 in x 250 ft	**6HJY2**

Thickness	Roll Size	Item No.
Laminating Film, Gloss Finish, Pkg. of 1		
3 mil	40 in x 250 ft	**6HJY3**
5 mil	40 in x 200 ft	**6HJY4**

30D507

Fellowes

Laminating Machine and Pouches

Proteus 125—Professional 6 roller system laminates documents up to 10 mil thick. Rapid lamination up to 41" per minute. Auto shut-off.

Description	Max. Document Width	Max. Document Thickness	Speed	Item No.
Pouch Laminating Machine				
Proteus 125	12 ½ in	10 mil	41 in/min	**30D507**

Description	Thickness	W	L	Item No.	Pkg. Qty.
Laminating Pouches					
Letter, Clear, UV Protection	3 mil	9 in	11.5 in	**30D519**	25
	3 mil	9 in	11.5 in	**30D515**	50
	3 mil	9 in	11.5 in	**30D508**	100
Letter, Clear	5 mil	9 in	11.5 in	**30D509**	100
	7 mil	9 in	11.5 in	**30D510**	100
	10 mil	9 in	11.5 in	**30D512**	50
Legal, Clear	3 mil	9 in	14.5 in	**30D511**	50
	5 mil	9 in	14.5 in	**30D517**	100
Menu, Clear	3 mil	12 in	18 in	**30D518**	25
Business Card, Clear	5 mil	3 ¾ in	2.25 in	**30D514**	100
	10 mil	3 ¾ in	2.25 in	**30D516**	100
Self-Adhesive Sheet, Clear	3 mil	9 ½ in	12 in	**30D513**	50

6HJY7

Credit Card-Size Pouch
6HJY9

Heavy-Duty Pouch Laminating Machines and Pouches

SIRCLE CORP

Metal-frame machines feature a solid state heating core, silicone rollers, and separate power and ready/run switches.

Max. Document Width	Max. Document Thickness	Speed	Item No.
Pouch Laminating Machines			
9 13/16 in	3 to 10 mil	33 in/min	**6HJY6**
12 9/16 in	3 to 10 mil	33 in/min	**6HJY7**

Type	Thickness	W	L	Item No.	Pkg. Qty.
Laminating Pouches, Gloss Finish					
Credit Card	5 mil	3 ⅜ in	2.125 in	**6HJY9**	100
Credit Card	7 mil	3 ⅜ in	2.125 in	**6HJZ0**	100
Business Card	5 mil	3 ¾ in	2.25 in	**6HJZ1**	100
Business Card	7 mil	3 ¾ in	2.25 in	**6HJZ2**	100
Luggage Tag	5 mil	4 ¼ in	2.5 in	**6HJZ3**	100
Luggage Tag	7 mil	4 ¼ in	2.5 in	**6HJZ4**	100
Luggage Tag	5 mil	4 ¼ in	2.5 in	**6HJZ5**	100
Luggage Tag	7 mil	4 ¼ in	2.5 in	**6HJZ6**	100
Military Card Size	5 mil	3 ⅞ in	2.625 in	**6HJZ7**	100
Military Card Size	7 mil	3 ⅞ in	2.625 in	**6HJZ8**	100
Index Card	5 mil	5 ½ in	3.5 in	**6HJZ9**	100
Index Card	7 mil	5 ½ in	3.5 in	**6HKA0**	100
Letter	3 mil	11 ½ in	9 in	**6HKA1**	100
Letter	5 mil	11 ½ in	9 in	**6HKA2**	100
Letter	7 mil	11 ½ in	9 in	**6HKA3**	100
Letter	10 mil	11 ½ in	9 in	**6HKA4**	50
Legal	3 mil	14 ½ in	9 in	**6HKA5**	100
Legal	5 mil	14 ½ in	9 in	**6HKA6**	100
Legal	10 mil	14 ½ in	9 in	**6HKA7**	50
Display or Chart	5 mil	15 in	12 in	**6HKA8**	100
Menu	5 mil	18 in	12 in	**6HKA9**	100
Menu	7 mil	18 in	12 in	**6HKC0**	100
Luggage Loop					
—	—	¼ in	6 in	**6HKC2**	100

24Y109

1UEA1

1UEA3

24Y111

Swingline

Guillotine Paper Cutters

- Steel blade

Guillotine paper cutters have a blade mounted on a hinged arm that is raised and lowered to slice through sheets or stacks of paper. These cutters create professional-quality cuts in documents or thick materials like posterboard or foam. They are ideal for high-volume projects because they cut large amounts of paper accurately in a single pass. Alignment grids on the trimmer base help users create precise cuts. Free Standing cutter is mounted on a wood stand.

Classification	Cutting Length	Sheet Cap.	Cutter Base Material	W	L	H	Mfr. Model	Item No.
Countertop								
Professional	12 in	15	Solid Maple Base	12 in	12 in	4 in	1132A	**24Y109**
	15 in	15	Solid Maple Base	15 in	15 in	5 1/16 in	1142A	**1UEA1**
	18 in	15	Solid Maple Base	18 in	18 in	5 1/2 in	1152A	**1UEA2**
	24 in	15	Solid Maple Base	24 in	24 in	5 5/8 in	1162A	**1UEA3**
Free Standing								
Professional	36 in	15	Wood	30 in	36 in	51 1/2 in	1184	**24Y111**

Storage Boxes

BANKERS BOX®

BASIC-DUTY

Designed for inactive files.

Stor/File™—Lid ships attached, then tears off for storage.

MEDIUM-DUTY

Designed for occasional access to files.

Shipping and Storage—Reusable shipping and storage box in 1. Adhesive strip seals for secure transport. Shipping lid tears off, with flip-top storage lid inside.

Stor/File™—FastFold quick, easy assembly. 2PWU6 and 2PWU7 have smooth rolled edges to deter paper cuts and add strength. 2PWU8 and 2PWU9 have reinforced plastic handle.

Stor/File™ DividerBox™—FastFold quick, easy assembly and multilayer construction with five 5" dividers.

HEAVY-DUTY

Designed for durability and frequent use.

Presto™—Instant setup; simply push corners. Double-bottom, double-end, double-side construction with tear-resistant handholes. 2PWT2 has extra reinforcement and ergonomic handholes.

R-Kive®—Multilayered corrugate construction enhances stacking strength. Reinforced handholes resist tearing. FastFold quick, easy assembly.

R-Kive® DividerBox™—Three 5" dividers keep contents upright and organized. FastFold quick, easy assembly.

Liberty®—FastFold quick, easy assembly. Reinforced plastic handle.

BinderBox™—Hold eight 1½" binders, or a variety of binders up to 3". FastFold setup, tear-resistant hand holes.

Shipping and Storage

Presto™

R-Kive® w/Woodgrain Trim

R-Kive® DividerBox™

Liberty®

Description	Color	File Size	Inside Dim. W	Inside Dim. H	Inside Dim. D	Stacking Cap.*	Closure	Item No.
Basic-Duty								
Stor/File™	White Box/Blue Trim	Letter/Legal	12 in	10 in	15 in	450 lb	Lift-Off Lid	**2PWX5**
Medium-Duty								
Shipping and Storage	White Box/Blue Trim	Letter/Legal	12 in	10 in	15 in	500 lb	Flip-Top Lid	**2PWT9**
Stor/File™	White Box/Blue Trim	Letter	12 in	10 in	24 in	650 lb	Lift-Off Locking Lid	**2PWU6**
Stor/File™	White Box/Blue Trim	Letter/Legal	12 in	10 1/4 in	15 1/2 in	550 lb	String & Button	**2PWU3**
Stor/File™	White Box/Blue Trim	Letter	12 in	10 in	24 in	500 lb	String & Button	**2PWU8**
Stor/File™	White Box/Blue Trim	Legal	15 in	10 in	24 in	550 lb	String & Button	**2PWU9**
Stor/File™	White Box/Blue Trim	Letter/Legal	12 in	10 in	15 in	550 lb	Lift-Off Locking Lid	**2PWX4**
Stor/File™	White Box/Blue Trim	Legal	15 in	10 in	24 in	700 lb	Lift-Off Locking Lid	**2PWU7**
Stor/File™ DividerBox™	White Box/Blue Trim	Letter	12 in	10 in	24 in	650 lb	Lift-Off Locking Lid	**2PWT7**
Stor/File™ DividerBox™	White Box/Blue Trim	Legal	15 in	10 in	24 in	700 lb	Lift-Off Locking Lid	**2PWT6**
Heavy-Duty								
Presto™	White Box/Blue Trim	Letter	12 in	10 in	24 in	750 lb	Lift-Off Locking Lid	**2PWT3**
Presto™	White Box/Blue Trim	Legal	15 in	10 in	24 in	800 lb	Lift-Off Locking Lid	**2PWT4**
Presto™ w/Ergonomic Handles	White Box/Blue Trim	Letter/Legal	12 in	10 in	15 in	850 lb	Lift-Off Locking Lid	**2PWT2**
R-Kive®	White Box/Black Trim	Letter/Legal	12 in	10 in	15 in	850 lb	Lift-Off Locking Lid	**2PWU4**
R-Kive®	Woodgrain	Letter/Legal	12 in	10 in	15 in	850 lb	Lift-Off Locking Lid	**2PWU5**
R-Kive® DividerBox™	White Box/Blue Trim	Letter/Legal	12 in	10 in	15 in	850 lb	Lift-Off Locking Lid	**2PWT5**
Liberty®	White Box/Blue Trim	Letter	12 in	10 in	24 in	750 lb	String & Button	**2PWU1**
Liberty®	White Box/Blue Trim	Legal	15 in	10 in	24 in	850 lb	String & Button	**2PWU2**
BinderBox™	White Box/Blue Trim	Binders	12 1/4 in	12 in	18 1/2 in	850 lb	Lift-Off Locking Lid	**2PWT8**

** Based on evenly distributed loads.*

2LJX5

2LJX3

2LJX4

Clipboards

File Size	Color	W	H	Clip Capacity	Item No.
Plastic Clipboards with Low Profile Clip					
Letter	Black	8 ⅞ in	12 ⅜ in	½ in	**2LJX7**
Letter	Dark Green	8 ⅞ in	12 ⅜ in	½ in	**2LJX6**
Letter	Red	8 ⅞ in	12 ⅜ in	½ in	**2LJX5**
Letter	Royal Blue	8 ⅞ in	12 ⅜ in	½ in	**2LJX8**
Metal Clipboard with Wire Clip					
Letter	Silver	9 ⅛ in	11 13⁄16 in	½ in	**2LJX3**
Metal Clipboard with Butterfly Clip					
Letter	Silver	9 ⅛ in	12 ½ in	1 in	**2LJX4**

1GEJ7

1GEJ3

1DNT6

1GEH5

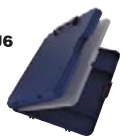
Recycled Clipboards

SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.	Pkg. Qty.
Hardboard Clipboard with Clamp Clip						
Letter	Light Brown	9 in	12 ½ in	1 in	**1GEJ7**	2
Legal	Light Brown	8 ⅞ in	18 in	1 in	**1GEJ8**	2
Hardboard Clipboard with High Capacity Clip						
Jumbo	Brown	26 in	23 in	1 in	**3XMR2**	1
Plastic Clipboard with High Capacity Clip						
Letter	Black	8 ⅞ in	13 ¼ in	1 in	**1GEJ4**	1
Letter	Blue	8 ⅞ in	13 ¼ in	1 in	**1DNT8**	1
Letter	Green	8 ⅞ in	13 ¼ in	1 in	**1DNT9**	1
Letter	Pink	9 in	13 ¼ in	1 in	**44R211**	1
Letter	Purple	8 ⅞ in	13 ¼ in	1 in	**1DNU2**	1
Letter	Red	8 ⅞ in	13 ¼ in	1 in	**1GEJ3**	1
Letter	Yellow	8 ⅞ in	13 ¼ in	1 in	**1DNU1**	1
Plastic Clipboard with Low Profile Clip						
Letter	Ice Blue	8 ⅞ in	12 ½ in	½ in	**1DNT6**	1
Letter	Pearl	8 ⅞ in	12 ½ in	½ in	**1DNT7**	1
Metal Clipboard with High Capacity Clip						
Letter	Silver	8 15⁄16 in	13 13⁄16 in	1 in	**1GEH5**	1

1GEJ2

3XJH8

38UJ20

1GEJ6

3XFP9

3ZHY8

Plastic Storage Clipboards

SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.
DeskMate II Storage Clipboard					
Letter	Black	10 in	16 in	½ in	**3XJH6**
Letter w/ Calculator	Black	10 in	16 in	½ in	**44R206**
Letter w/ Calculator	Orange	10 in	16 1⁄16 in	½ in	**1GEJ2**
SlimMate Clipboard					
Letter	Black	9 ½ in	13 ½ in	½ in	**3XJH8**
SlimMate Storage Clipboard					
Letter	Pink	9 ½ in	13 ½ in	½ in	**44R210**
Letter	Red/Green	9 in	13 ¼ in	½ in	**38UJ20**
WorkMate Storage Clipboard					
Letter	Blue/Maroon	10 ⅝ in	13 ⅜ in	½ in	**1GEJ6**
Letter	Gray	9 in	12 in	½ in	**3XFP9**
RingMate Storage Clipboard, 3-Ring					
Letter	Gray/Maroon	11 ¼ in	13 ½ in	½ in	**3ZHY8**

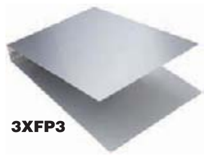
3XFN9

3ULJ7

3XJH5

3XFP6

3XMT1

1GEH2

3XFP3

1GEH6

1GEK2

30LW85

Aluminum Storage Clipboards, Binders & Padfolios

SAUNDERS

File Size	Color	W	H	Clip Capacity	Item No.
A-Holder Storage Clipboards					
Memo	Silver	5 ½ in	9 ½ in	½ in	**3XFN9**
Letter	Silver	9 ⅛ in	12 ½ in	½ in	**1DNR6**
Legal	Silver	9 ⅛ in	14 ½ in	½ in	**1DNR9**
Legal	Silver	8 ½ in	15 in	½ in	**3XFP1**
Citation Holder II Storage Clipboard					
Form	Black	6 ¼ in	11 ¾ in	½ in	**3ULJ7**
CruiserMate II Storage Clipboard					
Letter	Silver	8 ½ in	12 in	½ in	**3XJH5**
CruiserMate Storage Clipboards					
Letter	Black	9 ¼ in	13 ¾ in	1 in	**3ZHY9**
Letter	Silver	9 in	14 3⁄16 in	1 in	**1GEH4**
Legal	Silver	8 ½ in	14 in	1 in	**3XFP6**
Portfolio					
Letter	Silver	9 ½ in	13 in	½ in	**3XMT1**
RediRite Storage Clipboards					
Memo	Silver	6 in	10 ¼ in	½ in	**3ZHY7**
Letter	Silver	9 in	14 3⁄16 in	1 in	**1GEH2**
Legal	Silver	9 in	16 3⁄16 in	1 in	**1GEH8**
Letter with Calculator	Silver	9 in	14 7⁄16 in	1 in	**1GEH7**
Sheet Holder					
Letter	Silver	8 ½ in	12 in	½ in	**3XFP3**
Snapak Storage Clipboards					
Memo	Silver	6 ⅛ in	10 3⁄16 in	⅜ in	**1GEJ1**
Letter	Silver	9 1⁄16 in	12 ⅝ in	½ in	**1GEH6**
Legal	Silver	9 1⁄16 in	14 ⅝ in	½ in	**1GEH9**
TuffWriter Storage Clipboard					
Letter	Silver	9 ¼ in	13 5⁄16 in	½ in	**44R205**

Ring Size	Ring Type	Sheet Size	Sheet Capacity	Item No.
TuffBinder 3-Ring Binders, Recycled Aluminum				
1 in	Round	8½ in x 11 in	200	**1GEK2**
2 in	Round	8½ in x 11 in	400	**1GEK3**

Cover Color	Backing	Sheet Size	Number of Sheets	Item No.
Notepads				
Black	0.01 pt Faux Leather	3½ in x 5½ in	144	**30LW86**
Silver	0.04 pt Chipboard	8½ in x 11¾ in	50	**30LW84**
Padfolio with Writing Pad				
Silver	0.04 pt. Chipboard	5½" x 8½"	50	**30LW85**

2TDC1

4YNT3

1PRP6

4YNT4

4YNR5

Shop Ticket Holders

Store and protect documents. Heavy-duty plastic minimizes rips and tears. Materials stay organized and can be quickly changed as necessary.

Seam Style	Opening	W	H	Color	Item No.	Pkg. Qty.
¼ in Grommet						
Stitched	Top	4 in	6 in	Clear	**4YNT1**	25
	Top	5 in	8 in	Clear	**4YNT2**	25
	Top	6 in	9 in	Clear	**2TDC2**	25
	Top	8 ½ in	11 in	Black, Clear	**1PRN5**	25
	Top	8 ½ in	11 in	Clear	**2TDC3**	25
	Top	9 in	12 in	Clear, Neon Red	**4YNR6**	15
	Top	9 in	12 in	Clear, Neon Yellow	**4YNR7**	15
	Top	9 in	12 in	Black, Clear	**2TDC1**	25
	Top	9 in	12 in	Clear	**1PRN9**	25
	Top	9 in	12 in	Clear	**4YNU1**	15
	Long Side	11 in	8 ½ in	Clear	**4YNR9**	25
	Long Side	12 in	9 in	Clear	**4YNR8**	25
Hanging						
Stitched	Top	10 ½ in	12 in	Clear	**1DNP8**	15
	Top (2)	9 in	12 in	Clear	**4YNT3**	15
Magnetic						
Welded	Top	8 ½ in	11 in	Clear	**1PRP6**	15
	Top	9 in	12 in	Clear	**1PRP7**	15
Punched Hole						
Welded	Top	4 in	6 in	Clear	**4YNT4**	50
	Top	5 in	8 in	Clear	**4YNT5**	50
	Top	6 in	9 in	Clear	**4YNT6**	50
	Top	8 ½ in	11 in	Clear	**4YNT7**	50
	Top	9 in	12 in	Clear	**4YNT8**	50
	Long Side	12 in	9 in	Clear	**4YNT9**	50
Zippered	Top	9 in	12 in	Clear	**4YNR5**	15

C-LINE® PRODUCTS, INC.

Shop Ticket Holder, Self Adhesive

Store and protect documents. Heavy-duty plastic with welded seams keeps materials organized and all parts of a project together. Insert sizes shown.

Opening	W	H	Color	Item No.	Pkg. Qty.
Top	9 in	12 in	Clear	**2TDC5**	50

Document Wall Display
1HEK9

Desktop Display Foldfive
1HEN5

Desktop Document Display
1HEN4

Individual Pocket with Magnet
1TKK7

6" Catalog Rack Starter Set
1HEN7

tarifold *Ideas that work !*

Document Displays

Organize, protect, and display reference documents. Durable, powder-coated metal brackets encase wire-reinforced PVC pockets.

Document Wall Displays—Mount to wall, expand desktop displays, or mount to accessories. Include index tabs. 1HEP2 features antimicrobial display pockets, for greater workplace health and safety.

Desktop Document Displays—Viewable at a 60° angle on a desktop, or at a 30° angle when wall-mounted. Available in portrait or B-size landscape formats. Include desk base, mounting bracket, display pockets, and index tabs.

Catalog Racks—Hold 1" or 2" sections of bulky manuals at a 45° reading angle. Heavy-gauge steel construction with powder-coated finish.

Display Accessories—For mounting wall displays to other surfaces to keep documents accessible for easy viewing. 1HEN2 telescoping desk column mounts to assembly benches or desks. 1HEN3 rack/shelf bracket mounts to shelving or pallet racks.

Description	Sheet Size	Sheet Cap.	Color	Item No.	Pkg. Qty.
Document Wall Displays					
5 Pockets	8½" x 11 in	10	Assorted	**1HEK8**	1
10 Pockets	8½" x 11 in	20	Assorted	**1HEK9**	1
10 Pockets, Magnetic	8½" x 11 in	20	Assorted	**1HEN1**	1
10 Pockets, Antimicrobial	8½" x 11 in	20	Black	**1HEP2**	1
Desktop Document Displays					
10 Pockets	8½" x 11 in	20	Assorted	**1HEN4**	1
10 Pockets, B Sized Drawing	11" x 17 in	20	Assorted	**1HEP4**	1
50 Pockets, Foldfive	8½" x 11 in	100	Assorted	**1HEN5**	1
10 Pockets, Antimicrobial	8½" x 11 in	20	Black	**1HEP3**	1
Sheet Pocket w/Hangers					
Wall	8½" x 11 in	1 Sheet Viewable	Blue	**1TKK6**	5
Magnetic Sheet Pockets					
Wall	8½" x 11 in	1 Sheet Viewable	Blue	**1TKK7**	5

Description	Sheet Size (in.)	Sheet Cap.	Color	Item No.	Pkg. Qty.
Wall and Desktop Display Accessories					
Replacement Regular Pivoting Pockets	8½" x 11"	20	Assorted	**1HEN6**	10
Replacement Antimicrobial Pivoting Pockets	8½" x 11"	20	Black	**1HEP5**	10
Display Accessories					
PivoRack/Shelf Bracket	—	—	Gray	**1HEN3**	1
Telescoping Desk Column	—	—	Gray	**1HEN2**	1
Catalog Racks					
Catalog Rack Starter Set	8½" x 11"	6 in Reference Material	Black	**1HEN7**	1
Catalog Rack Base, 45 Degrees Viewing Angle	8½" x 11"	12 in Reference Material	Black	**1HEN8**	1
Catalog Rack Ring Section	8½" x 11"	1 in Reference Material	Black	**1HEN9**	1
Catalog Rack Post Section	8½" x 11"	2 in Reference Material	Black	**1HEP1**	1
Display Accessories					
PivoRack/Shelf Bracket	—	—	Gray	**1HEN3**	1
Telescoping Desk Column	—	—	Gray	**1HEN2**	1

General Purpose
1TMA6

General Purpose
26VC95

Transparent Repair
30WM01

Clean Removal
15F807

UL-Printed
10A996

Flame Retardant
35UX90

Gorilla · Nashua Tape Products · TapeCase · AbilityOne Program · 3M · Polyken

Duct & Repair Tape

Tapes are high-strength, durable, and have an adhesive on one side that conforms and adheres to uneven surfaces when pressure is applied.

General Purpose Duct Tape—For general, temporary repair and patching, as well as labeling, marking, and wire pulling.

Transparent Repair Tape—For discreet patching and repair work such as covering a hole in a window screen, or mending a tear in a tent.

Clean Removal Duct Tape—Tape can be left in place and exposed to outdoor elements for up to six months before removing. For use in applications where temporary but durable taping is needed, such as seasonal weather sealing.

UL-Printed Duct Tape—This tape is used in HVAC applications to seal, seam, and join ductwork and provide evidence that the work is UL-compliant.

Flame Retardant Duct Tape—For use in high-temperature applications such as sealing ductwork, insulating wiring, and environments that require flame-retardant materials.

Nuclear Grade Duct Tape—For sealing and repairing in harsh environments, it resists corrosion that could result from exposure to harsh substances found in nuclear power plants, ship yards, and steel mills. It leaves little or no residue after being applied for six months and is useful for temporary sealing, insulating, or wrapping applications.

Metalized Duct Tape—Metalized coating blends with ductwork, foil-covered sheathing and insulation.

Imperial Tape WxL	Tape Thickness	Tape Backing Material*	Tape Adhesive Material	Environment	Tape Color	Temp. Range	Series	Brand	Item No.	Pkg. Qty.
General Purpose Duct Tape										
Heavy Duty										
1" x 10-yd	17 mil	PECC	Rubber	Indoor/Outdoor	Black	30° to 150°F	—	Gorilla	**16V093**	1
1⅞" x 12-yd	17 mil	PECC	Rubber	Indoor/Outdoor	Black	30° to 150°F	—	Gorilla	**1TMA5**	1
1⅞" x 35-yd	17 mil	PECC	Rubber	Indoor/Outdoor	Black	30° to 150°F	—	Gorilla	**1TMA6**	1
1⅞" x 39-yd	16 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	349	Nashua	**15R434**	1
1⅞" x 60-yd	13 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	357	Nashua	**15R452**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	357	Nashua	**1P105**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	357	Nashua	**15R449**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	357	Nashua	**15R447**	1
2-13/16" x 60-yd	13 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	357	Nashua	**15R453**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	357	Nashua	**15R450**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	357	Nashua	**15R446**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	357	Nashua	**15R448**	1
2⅞" x 25-yd	17 mil	PECC	Rubber	Indoor/Outdoor	Black	30° to 150°F	—	Gorilla	**5REA3**	1
4" x 60-yd	13 mil	PECC	Rubber	Indoor/Outdoor	Olive Drab	40° to 200°F	357	Nashua	**15R451**	1
Standard Duty										
¾" x 60-yd	10.5 mil	CC	Rubber	Indoor/Outdoor	White	Up to 200°F	175	Tapecase	**15C775**	1
1½" x 60-yd	11 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	398	Nashua	**15R456**	1
1⅞" x 60-yd	9 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	2280	—	**26VC87**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	2280	Nashua	**30F047**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	All-Climate	Nashua	**3NJZ5**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	2280	—	**26VC89**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	2280	Nashua	**26W990**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Green	40° to 200°F	2280	Nashua	**30F052**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Red	40° to 200°F	2280	Nashua	**30F053**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	394	Nashua	**6JD46**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	2280	Nashua	**26W993**	1
	9 mil	PECC	Rubber	Indoor/Outdoor	Yellow	40° to 200°F	2280	Nashua	**26W994**	1
	10 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	396	Nashua	**5AD15**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	398	Nashua	**15R465**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	398	Nashua	**15R462**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	398	Nashua	**15R463**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	398	Nashua	**15R464**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	398	Nashua	**2W504**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Green	40° to 200°F	398	Nashua	**15R461**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Red	40° to 200°F	398	Nashua	**15R457**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	365	Nashua	**6A067**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	398	Nashua	**15R455**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Yellow	40° to 200°F	398	Nashua	**15R459**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	345	Nashua	**10C003**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Olive Drab	40° to 200°F	231	Polyken	**15R474**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	345	Nashua	**2W502**	1
2" x 60-yd	9 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	5640	Ability One	**1XEB5**	1
	10 mil	PECC	Rubber	Indoor Only	Silver	40° to 200°F	6969	3M	**15F769**	1
	10.5 mil	CC	Rubber	Indoor/Outdoor	White	Up to 200°F	175	Tapecase	**15C777**	1
2-13/16" x 60-yd	9 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	2280	—	**26VC95**	1
	10 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	396	Nashua	**15R454**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	398	Nashua	**15R442**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	398	Nashua	**15R441**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	398	Nashua	**15R458**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Green	40° to 200°F	398	Nashua	**15R440**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	398	Nashua	**15R438**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	231	Polyken	**15R475**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	345	Nashua	**1P116**	1
4" x 60-yd	9 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	2280	—	**26VC96**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	398	Nashua	**15R460**	1
Light Duty										
1" x 50-yd	6.5 mil	VCC	Rubber	Indoor Only	Gray	40° to 200°F	3903	3M	**15C919**	1
	6.5 mil	VCC	Rubber	Indoor Only	Red	40° to 200°F	3903	3M	**15C920**	1
	6.5 mil	VCC	Rubber	Indoor Only	Yellow	40° to 200°F	3903	3M	**15C922**	1
1½" x 50-yd	6.5 mil	VCC	Rubber	Indoor Only	Gray	40° to 200°F	3903	3M	**15C931**	1
	6.5 mil	VCC	Rubber	Indoor Only	Red	40° to 200°F	3903	3M	**15C932**	1
1⅞" x 60-yd	6 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	306	—	**26VC84**	1
2" x 50-yd	6.5 mil	VCC	Rubber	Indoor Only	Black	40° to 200°F	3903	3M	**15F770**	1
	6.5 mil	VCC	Rubber	Indoor Only	Blue	40° to 200°F	3903	3M	**15F771**	1
	6.5 mil	VCC	Rubber	Indoor Only	Gray	40° to 200°F	3903	3M	**15F772**	1
	6.5 mil	VCC	Rubber	Indoor Only	Green	40° to 200°F	3903	3M	**15F773**	1
	6.5 mil	VCC	Rubber	Indoor Only	Red	40° to 200°F	3903	3M	**15F774**	1
	6.5 mil	VCC	Rubber	Indoor Only	White	40° to 200°F	3903	3M	**15F775**	1
	6.5 mil	VCC	Rubber	Indoor Only	Yellow	40° to 200°F	3903	3M	**15F776**	1
2⅞" x 25-yd	0.7 mil	PECC	Rubber	Indoor/Outdoor	White	30° to 150°F	—	Gorilla	**499L89**	1
4" x 50-yd	6.5 mil	VCC	Rubber	Indoor Only	Black	40° to 200°F	3903	3M	**15D152**	1
	6.5 mil	VCC	Rubber	Indoor Only	Red	40° to 200°F	3903	3M	**15D156**	1
	6.5 mil	VCC	Rubber	Indoor Only	White	40° to 200°F	3903	3M	**15D157**	1
	6.5 mil	VCC	Rubber	Indoor Only	Yellow	40° to 200°F	3903	3M	**15D158**	1
Transparent Repair Tape										
Standard Duty										
2" x 9-yd	8.2 mil	EC	Acrylic	Indoor/Outdoor	Transparent	10° to 120°F	—	Gorilla	**30WM01**	1
Light Duty										
1½" x 5-yd	7 mil	EC	Rubber	Indoor/Outdoor	Transparent	4° to 140°F	—	Gorilla	**45DV43**	1
2" x 18-yd	7 mil	PEF	Acrylic	Indoor/Outdoor	Transparent	-5° to 140°F	—	Gorilla	**55FJ92**	1
2-13/16" x 36-yd	5.2 mil	VF	Rubber	Indoor Only	Transparent	-20° to 140°F	TC521	—	**494K29**	16
Clean Removal Duct Tape										
Standard Duty										
2" x 60-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**15F803**	1
2" x 25-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**15F805**	1
2" x 60-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	8979	3M	**15F807**	1
2-13/16" x 60-yd	12.1 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**39RW36**	1
3¾" x 60-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**45FD26**	1
6" x 60-yd	12.1 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**54EN73**	6
12" x 60-yd	12.1 mil	PECC	Rubber	Indoor/Outdoor	Blue	40° to 200°F	8979	3M	**54EN51**	2
UL-Printed Duct Tape										
Heavy Duty										
1⅞" x 60-yd	14 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	557	Nashua	**10A995**	1
	14 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	557	Nashua	**10A996**	1
	14 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	557	Nashua	**6JD47**	1
Flame Retardant Duct Tape										
Standard Duty										
1⅞" x 60-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	235	Polyken	**35UX90**	24
Light Duty										
3" x 36-yd	7 mil	GC	Acrylic	Indoor/Outdoor	White	40° to 275°F	296FR	Polyken	**15R478**	1

** PECC = polyethylene coated cloth. CC = cotton cloth. VCC = vinyl coated cloth. PPCC = polypropylene coated cloth. EC = ethylene copolymer. PEF = polyethylene film. VF = vinyl film. GC = glass cloth.*

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CONTINUED

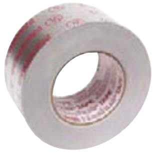
Duct & Repair Tape

Imperial Tape WxL	Tape Thickness	Tape Backing Material*	Tape Adhesive Material	Environment	Tape Color	Temp. Range	Series	Brand	Item No.	Pkg. Qty.
Nuclear Grade Duct Tape										
Heavy Duty										
1⅞" x 60-yd	13 mil	PECC	Rubber	Indoor/Outdoor	Red	40° to 200°F	357N	Nashua	**15R437**	1
	13 mil	PECC	Rubber	Indoor/Outdoor	Silver	40° to 200°F	357N	Nashua	**15R435**	1
Standard Duty										
1⅞" x 60-yd	11 mil	PECC	Rubber	Indoor/Outdoor	Gray	40° to 200°F	398N	Nashua	**15R443**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	398N	Nashua	**15R444**	1
	11 mil	PECC	Rubber	Indoor/Outdoor	Yellow	40° to 200°F	398N	Nashua	**15R445**	1
	11.5 mil	PECC	Rubber	Indoor/Outdoor	Red	40° to 200°F	8979N	3M	**52ND50**	24
	12 mil	PECC	Rubber	Indoor/Outdoor	Black	40° to 200°F	226	Polyken	**15R471**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	Red	40° to 200°F	226	Polyken	**15R472**	1
	12 mil	PECC	Rubber	Indoor/Outdoor	White	40° to 200°F	226	Polyken	**15R473**	1
2" x 60-yd	11.5 mil	PECC	Rubber	Indoor/Outdoor	Brown	40° to 200°F	8979N	3M	**15F806**	1
Metalized Duct Tape										
Light Duty										
1⅞" x 120-yd	3.1 mil	PPCC	Acrylic	Indoor/Outdoor	Silver	-40° to 185°F	3350	3M	**29WT64**	1

** PECC = polyethylene coated cloth. CC = cotton cloth. VCC = vinyl coated cloth. PPCC = polypropylene coated cloth. EC = ethylene copolymer. PEF = polyethylene film. VF = vinyl film. GC = glass cloth.*

Nuclear Grade
15R435

Metalized
29WT64



UL-Printed
6A068

General Purpose
54EN08

FSK
6A064

Corrosion-Resistant
15D569

Anti-Vibration
15C975

ASJ
6A065

Reinforced
15D093

Foil Tape

- Indoor and outdoor use

The metal backing on foil tape reflects light and heat, and it resists vapor, UV rays, and weathering. It is high strength, durable, and has an adhesive on one side that conforms and adheres to uneven surfaces when pressure is applied. Foil tape seals ductwork and foil-covered insulation in HVAC applications, and it repairs metal parts and sheeting in construction and industrial applications.

UL-Printed—Seals, seams, and joins ductwork in HVAC applications and provides evidence that the work is UL-compliant.

General Purpose—Seals ductwork and foil-covered insulation in HVAC applications, and it repairs metal parts and sheeting in construction and industrial applications.

FSK—Foil scrim kraft (FSK) tape features a combined backing of aluminum foil, kraft paper, and fiberglass scrim (lining) that provides a barrier against vapor. Tape is used for sealing and patching FSK ductwork and insulation and provides a finished look for exposed HVAC systems.

Corrosion-Resistant—Nonmagnetic tape is used in food processing plants or in harsh environments such as marine and nuclear facilities. It is useful for patching scratched coatings on surfaces where corrosion could occur if left exposed.

Anti-Vibration—Features sound-dampening qualities that reduce resonating vibration. It is used in aerospace and automotive applications where vibration could cause excessive noise and equipment fatigue.

ASJ—All surface jacket (ASJ) foil tape has a bleached white paper backing. It wraps around pipe for a clean white facing that resists extreme heat and provides a barrier against vapor. Used in HVAC applications to cover exposed pipe systems inside a building.

Reinforced—Bolstered with glass cloth, it is strong and flexible with abrasion- and heat-resistant properties. Suitable for bundling items that may be exposed to movement or vibration. It is useful in aerospace and automotive industries for protecting and insulating high-temperature equipment such as fuel lines.

Imperial Tape WxL	Tape Thickness	Tape Backing Material*	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
UL-Printed Foil Tape								
Silver								
2 ½ in x 60 yd	4.8 mil	Aluminum	Acrylic	-20° to 325°F	324A	Nashua	**6A068**	1
2 13⁄16 in x 60 yd	4.8 mil	Aluminum	Acrylic	-20° to 325°F	324A	Nashua	**1P118**	1
General Purpose Foil Tape								
Silver								
1 in x 5 yd	3.6 mil	Aluminum	Silicone	-65° to 600°F	433	3M	**15D124**	1
1 ⅞ in x 33 ⅞ yd	17 mil	Aluminum	Rubber	-40° to 200°F	360	Polyken	**15R467**	1
1 ⅞ in x 50 ¼ yd	3.5 mil	Aluminum	Acrylic	-35° to 260°F	330X	Nashua	**6JD44**	1
	3.5 mil	Aluminum	Rubber	-40° to 200°F	338	Polyken	**499L72**	1
	5 mil	Aluminum	Rubber	40° to 200°F	322	Nashua	**2W500**	1
2 in x 5 yd	3.1 mil	Aluminum	Acrylic	-65° to 300°F	431	3M	**15D120**	1
	3.6 mil	Aluminum	Silicone	-65° to 600°F	433	3M	**15D125**	1
	4.6 mil	Aluminum	Acrylic	-65° to 300°F	425	3M	**15D115**	1
	7.2 mil	Aluminum	Acrylic	-65° to 300°F	438	3M	**15D127**	1
2 in x 60 yd	4.6 mil	Aluminum	Acrylic	-65° to 300°F	425	3M	**54EN08**	24
2 ½ in x 50 yd	5 mil	Aluminum	Rubber	40° to 200°F	322	Nashua	**15R466**	1
2 13⁄16 in x 33 ⅞ yd	17 mil	Aluminum	Rubber	-40° to 200°F	360	Polyken	**15R468**	1
2 13⁄16 in x 50 ¼ yd	3.5 mil	Aluminum	Acrylic	-35° to 260°F	330X	Nashua	**6JD45**	1
	3.5 mil	Aluminum	Rubber	-40° to 200°F	338	Polyken	**499L73**	1
	5 mil	Aluminum	Rubber	40° to 200°F	322	Nashua	**6A063**	1
3 in x 5 yd	3.1 mil	Aluminum	Acrylic	-65° to 300°F	431	3M	**15D121**	1
	4.6 mil	Aluminum	Acrylic	-65° to 300°F	425	3M	**15D116**	1
	7.2 mil	Aluminum	Acrylic	-65° to 300°F	438	3M	**15D128**	1
4 in x 5 yd	3.1 mil	Aluminum	Acrylic	-65° to 300°F	431	3M	**15D122**	1
	4.6 mil	Aluminum	Acrylic	-65° to 300°F	425	3M	**15D117**	1
	7.2 mil	Aluminum	Acrylic	-65° to 300°F	438	3M	**15D129**	1
6 in x 5 yd	3.1 mil	Aluminum	Acrylic	-65° to 300°F	431	3M	**15D123**	1
	4.6 mil	Aluminum	Acrylic	-65° to 300°F	425	3M	**15D118**	1
FSK Foil Tape								
Silver								
1 ⅞ in x 50 ¼ yd	8 mil	Aluminum	Rubber	-40° to 200°F	FSK	Nashua	**10A994**	1
2 13⁄16 in x 50 ¼ yd	8 mil	Aluminum	Rubber	-40° to 200°F	FSK	Nashua	**6A064**	1
Corrosion-Resistant Foil Tape								
Silver								
1 in x 3 yd	4 mil	Stainless Steel	Acrylic	-30° to 310°F	TC862	Tapecase	**15D569**	1
2 in x 3 yd	4 mil	Stainless Steel	Acrylic	-30° to 310°F	TC862	Tapecase	**15D570**	1
3 in x 3 yd	4 mil	Stainless Steel	Acrylic	-30° to 310°F	TC862	Tapecase	**15D571**	1
12 in x 3 yd	4 mil	Stainless Steel	Acrylic	-30° to 310°F	TC862	Tapecase	**15D573**	1
Anti-Vibration Foil Tape								
Silver								
2 in x 5 yd	15 mil	Aluminum	Acrylic	-25° to 175°F	2552	3M	**15C975**	1
ASJ Foil Tape								
White								
2 13⁄16 in x 50 ¼ yd	7.4 mil	Aluminum	Acrylic	-35° to 260°F	ASJ	Nashua	**6A065**	1
Reinforced Foil Tape								
Silver								
½ in x 36 yd	4 mil	Aluminum	Silicone	-60° to 600°F	TC955	Tapecase	**15D641**	1
¾ in x 36 yd	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15D093**	1
1 in x 5 yd	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15C126**	1
1 in x 36 yd	4 mil	Aluminum	Silicone	-60° to 600°F	TC955	Tapecase	**15D642**	1
	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15D091**	1
2 in x 5 yd	4 mil	GCRF	Silicone	-60° to 600°F	TC955	Tapecase	**15C648**	1
	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15C127**	1
2 in x 36 yd	4 mil	Aluminum	Silicone	-60° to 600°F	TC955	Tapecase	**15D643**	1
	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15D092**	1
3 in x 5 yd	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15C129**	1
3 in x 36 yd	4 mil	Aluminum	Silicone	-60° to 600°F	TC955	Tapecase	**15D644**	1
	7.3 mil	GCRF	Silicone	-65° to 600°F	363	3M	**15D094**	1

** GCRF = glass cloth reinforced foil.*

General Purpose Masking Tape

497C19

23M203

- Tan color
- Rubber adhesive
- Indoor use only

This tape has a stronger adhesive than painter's tape and may leave adhesive residue when removed. It is used for temporary holding, wrapping, marking, and labeling applications.

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
½ in x 60 yd	5 mil	Crepe Paper	50° to 140°F	PG500	Ipg	**23M224**	72
	5 mil	Crepe Paper	50° to 150°F	TC083	—	**497C11**	1
	5.1 mil	Crepe Paper	Up to 150°F	101+	3M	**19YP47**	72
11/16 in x 60 yd	5 mil	Crepe Paper	50° to 140°F	PG500	Ipg	**23M205**	48
	5.1 mil	Crepe Paper	Up to 150°F	101+	3M	**19YP48**	48
¾ in x 60 yd	7 mil	Kraft Paper	30° to 225°F	TC450	—	**497C39**	1
15/16 in x 60 yd	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**52JE62**	1
	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**29WT52**	36
	5 mil	Crepe Paper	50° to 140°F	PG500	Ipg	**23M206**	36
	5.1 mil	Crepe Paper	Up to 150°F	101+	3M	**19YP49**	36
	6.3 mil	Crepe Paper	50° to 200°F	PG5	Ipg	**23M218**	36
1 in x 60 yd	4.8 mil	Crepe Paper	60° to 150°F	TC106	—	**497C19**	1
	5 mil	Crepe Paper	50° to 150°F	TC083	—	**497C13**	1
	6.3 mil	Kraft Paper	Up to 325°F	TC650	—	**497C89**	1
	7 mil	Kraft Paper	30° to 225°F	TC450	—	**497C40**	1
1 ⅜ in x 60 yd	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**52JE63**	1
	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**29WT53**	24
	6.3 mil	Crepe Paper	50° to 200°F	PG5	Ipg	**23M219**	24
1 ½ in x 60 yd	7 mil	Kraft Paper	30° to 225°F	TC450	—	**497C41**	1
1 ⅞ in x 60 yd	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**35HX18**	1
	4.4 mil	Crepe Paper	Up to 200°F	201+	3M	**29WT54**	24
	5 mil	Crepe Paper	50° to 140°F	PG500	Ipg	**23M207**	24
	5 mil	Crepe Paper	50° to 150°F	CP 83	Shurtape	**22XN45**	1
	5.1 mil	Crepe Paper	Up to 150°F	101+	3M	**19YP51**	24
	6.3 mil	Crepe Paper	50° to 200°F	PG5	Ipg	**23M203**	24
2 in x 60 yd	5 mil	Crepe Paper	50° to 150°F	TC083	—	**497C15**	1
	6.3 mil	Kraft Paper	Up to 325°F	TC650	—	**497C91**	1
	7 mil	Kraft Paper	30° to 225°F	TC450	—	**497C42**	1

Electroplating Masking Tape

15D106

- Lead backing
- Silver color
- Rubber adhesive
- Indoor use only
- Temp. range: -60° to 225°F

Masking tape is electrically and thermally conductive and protects surfaces in electroplating applications. This pliable tape conforms to detailed shapes for masking areas that are not intended for exposure, and removes cleanly after use.

Imperial Tape WxL	Tape Thickness	Series	Item No.
½ in x 5 yd	6.3 mil	421	**15D110**
	6.8 mil	420	**15D104**
¾ in x 5 yd	6.3 mil	421	**15D113**
	6.8 mil	420	**15D107**
1 in x 5 yd	6.3 mil	421	**15D111**
	6.8 mil	420	**15D105**
2 in x 5 yd	6.3 mil	421	**15D112**
	6.8 mil	420	**15D106**

Sealing Foam Tape

15D042

- Series 4500
- Black color
- Indoor and outdoor use
- Temp. range: 0° to 250°F

These continuous rolls of tape have a vinyl foam backing that is flexible and conforms to uneven surfaces. The acrylic adhesive adheres to surfaces when pressure is applied and provides cushioning, insulates from weather, dampens sound, and absorbs vibration. It can be used in applications for weather stripping, protecting equipment, and insulating pipes to prevent condensation.

Imperial Tape WxL	Tape Thickness	Item No.
¾ in x 5 yd	⅛ in	**15D042**
	¼ in	**15D041**
1 in x 5 yd	⅛ in	**15C924**
	¼ in	**15C923**

Drywalling Fiberglass 6FFA4

High-Temperature Sealing 15C122

Outdoor Line Set 10A411

Sealing Cloth & Film Tape

- Indoor and outdoor use, except No. 6FFA4 is indoor use only

These continuous rolls of tape are high-strength, durable, and have an adhesive on one side that conforms and adheres to uneven surfaces when pressure is applied.

Drywalling Fiberglass Mesh Tape—It has a light adhesive to keep the tape in place while compounds are applied. This tape is used to reinforce sealants such as paint-on mastic in ductwork and joint compounds or mud in drywall applications.

High-Temperature Sealing Glass Cloth Tape—Tape wraps and seals ducts, cables, and pipes in high-heat applications such as thermal spray masking and submerged arc welding.

Outdoor Line Set Film Tape—This tape is UV- and weather-resistant. Line sets are hoses and fittings that connect indoor HVAC equipment to outdoor equipment such as a condenser.

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.
Drywalling Fiberglass Mesh Tape							
White							
1 ⅞ in x 100 yd	9 mil	Fiberglass	Acrylic	50° to 200°F	MJ 100	Shurtape	**6FFA4**
High-Temperature Sealing Glass Cloth Tape							
White							
½ in x 5 yd	5 mil	Glass Cloth	Silicone	-65° to 450°F	3615	3M	**15C122**
½ in x 60 yd	5.4 mil	Glass Cloth	Silicone	-65° to 450°F	361	3M	**15D056**
1 in x 5 yd	5 mil	Glass Cloth	Silicone	-65° to 450°F	3615	3M	**15C123**
2 in x 5 yd	5 mil	Glass Cloth	Silicone	-65° to 450°F	3615	3M	**15C124**
Outdoor Line Set Film Tape							
Black							
1 ⅞ in x 60 yd	2.85 mil	Polypropylene Coated Cloth	Acrylic	-35° to 210°F	LS 300	Shurtape	**10A411**

Black 22VC17

POLYKEN®

Residue-Free Gaffer's Tape

- Series 510
- 11.5 mil thickness
- Indoor and outdoor use
- Temp. range: 40° to 200°F

Gaffer's tape has a heavy, vinyl coated cloth-backing and does not leave an adhesive residue. The rubber adhesive adheres well to a variety of surfaces, including carpet. It is water- and heat-resistant, but less conformable than duct tape. This tape is often used to temporarily secure lighting and cables without causing surface damage. It is also used in assembly, manufacturing, construction, general maintenance and repair.

Imperial Tape WxL	Item No.
Black	
1 in x 55 yd	**22VC30**
1 ½ in x 55 yd	**22VC17**
1 ⅞ in x 54 yd	**22VC29**
2 13/16 in x 54 yd	**22VC31**
4 in x 55 yd	**19YP90**
Brown	
1 ⅞ in x 54 yd	**22VC20**
2 13/16 in x 54 yd	**22VC22**
Fluorescent Green	
1 ⅞ in x 49 yd	**15R497**
Fluorescent Pink	
1 ⅞ in x 49 yd	**15R494**
Gray	
1 ⅞ in x 54 yd	**22VC27**
2 13/16 in x 54 yd	**22VC28**
Green	
1 ⅞ in x 54 yd	**22VC24**
2 13/16 in x 54 yd	**22VC23**
Orange	
1 ⅞ in x 49 yd	**15R495**
Red	
1 in x 55 yd	**22VC16**
1 ⅞ in x 54 yd	**22VC25**
White	
1 in x 55 yd	**22VC18**
1 ⅞ in x 54 yd	**22VC19**
2 13/16 in x 54 yd	**22VC26**
Yellow	
1 ⅞ in x 49 yd	**15R496**
1 ⅞ in x 54 yd	**22VC21**

Multi-Surface
41C898

Painter's Tape

Continuous rolls of tape cover and protect surfaces from exposure to paint, while also creating clean, painted borders and reducing bleed through. Conforms to curves, irregular surfaces and removes cleanly in a single strip without splintering or leaving adhesive residue. Crepe paper backing, except 15F777 is polyethylene film and 41C895 is washi, a type of durable and flexible paper.

Multi-Surface—For use on smooth or lightly textured walls, trim, baseboards, tile, and glass.

Rough Surface—This tape has a stronger adhesive than multi-surface painter's tape and used on rougher surfaces such as brick, concrete, and stucco.

Delicate Surface—Tape has a lighter adhesive than multi-surface painter's tape. For use on faux finishes, primed wallboard, wallpaper, or one-day-old, freshly painted surfaces.

Multi-Surface
497C34

Rough Surface
15F777

Delicate Surface
41C895

Imperial Tape WxL	Tape Thickness	Tape Adhesive Material	Environment	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
Multi-Surface Painter's Tape								
Blue								
15/16 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**41C898**	1
15/16 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**41C890**	9
1 in x 60 yd	6.3 mil	Rubber	Indoor/Outdoor	50° to 200°F	7510	Ability One	**56CL13**	1
1 7/16 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**41C892**	1
1 7/16 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**45FD18**	6
1 1/2 in x 60 yd	5.5 mil	Rubber	Indoor Only	Up to 400°F	PT14	Tapecase	**15D696**	1
1 7/8 in x 60 yd	5.3 mil	Rubber	Indoor/Outdoor	50° to 200°F	CP 027	Shurtape	**6FET7**	1
1 7/8 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**41C894**	1
1 7/8 in x 60 yd	5.4 mil	Acrylic	Indoor/Outdoor	Up to 122°F	2090	3M	**41C893**	6
2 in x 60 yd	2 mil	Rubber	Indoor/Outdoor	60° to 150°F	7510	Ability One	**48TC57**	1
2 in x 60 yd	5.7 mil	Rubber	Indoor Only	50° to 200°F	TC27	—	**497C34**	1
Green								
15/16 in x 60 yd	6.7 mil	Rubber	Indoor Only	Up to 250°F	401+	3M	**29WT58**	24
1 3/8 in x 60 yd	6.7 mil	Rubber	Indoor Only	Up to 250°F	401+	3M	**29WT59**	16
1 7/8 in x 60 yd	5.7 mil	Rubber	Indoor/Outdoor	50° to 200°F	CF 120	Shurtape	**6FET6**	1
1 7/8 in x 60 yd	6.7 mil	Rubber	Indoor Only	Up to 250°F	401+	3M	**52JE75**	1
1 7/8 in x 60 yd	6.7 mil	Rubber	Indoor Only	Up to 250°F	401+	3M	**29WT60**	12
2 13/16 in x 60 yd	6.7 mil	Rubber	Indoor Only	Up to 250°F	401+	3M	**52JE77**	8
Purple								
3 15/16 in x 60 yd	7.3 mil	Rubber	Indoor Only	Up to 300°F	501+	3M	**402M84**	8
Tan								
11/16 in x 60 yd	6.9 mil	Rubber	Indoor Only	30° to 225°F	CP 450	Shurtape	**24K296**	48
1 in x 60 yd	6.3 mil	Rubber	Indoor Only	Not Rated	7510	Ability One	**5LG45**	1
1 7/8 in x 60 yd	7.6 mil	Rubber	Indoor Only	Up to 300°F	231/231A	3M	**54UC22**	24
2 in x 60 yd	6.3 mil	Rubber	Indoor Only	Not Rated	7510	Ability One	**5LG44**	1
Yellow								
1 7/8 in x 60 yd	6.3 mil	Rubber	Indoor Only	Up to 225°F	301+	3M	**29WT57**	24
Rough Surface Painter's Tape								
Green								
1 3/8 in x 60 yd	6 mil	Rubber	Indoor Only	Up to 120°F	2060	3M	**2EAY2**	24
1 7/8 in x 60 yd	15 mil	Rubber	Indoor Only	Up to 200°F	2060	3M	**2EAY4**	24
Red								
1 7/8 in x 45 yd	12 mil	Rubber	Indoor/Outdoor	Up to 200°F	5959	3M	**15F777**	1
Delicate Surface Painter's Tape								
Purple								
15/16 in x 60 yd	3.8 mil	Acrylic	Indoor Only	Up to 122°F	2080	3M	**41C895**	1
Yellow								
1 3/8 in x 60 yd	3.6 mil	Acrylic	Indoor Only	50° to 200°F	CF 160	Shurtape	**10A415**	1

Painter's Tape Dispenser

Handheld steel dispenser quickly applies painter's tape to large areas to protect trim and borders in preparation for painting.

Compatible Core Diameter	Minimum Tape Width	Maximum Tape Width	Handle Style	Color	Series	Item No.
3 in	1 1/2 in	2 in	Clam Shell	Gray	H128	**3EGL1**

Containment Tape

- Rubber adhesive

Tape helps containment of harmful dust and particles in painting, sanding, remodeling, mold remediation, and asbestos removal.

Double-Sided—This tape has a painter's-tape-grade adhesive on one side for adhering to wood trim, painted walls, tile, and glass. The other side has a strong adhesive to hold poly sheeting and other coverings in place.

Single-Sided—It has a strong adhesive to hold poly sheeting and other coverings in place.

53XM18

40TU02

Imperial Tape WxL	Tape Thickness	Environment	Tape Backing Material	Temperature Range	Series	Item No.	Pkg. Qty.
Double-Sided Containment Tape							
Tan							
1 7/8 in x 25 yd	8.5 mil	Indoor Only	Crepe Paper	32° to 120°F	DS 154	**53XM18**	1
Single-Sided Containment Tape							
Silver							
1 7/8 in x 60 yd	10 mil	Indoor/Outdoor	Polyethylene Coated Cloth	25° to 200°F	PC 610	**40TU02**	24

Single-Sided Splicing Tape

POLYKEN · TapeCase · 3M

This thin, high-strength tape joins two materials to increase their overall length or to join two rolls of material together.

Polyethylene—Tape is UV-resistant and is primarily designed for splicing polyethylene film.

Polyester—Extra high-strength to withstand rigorous splicing applications without peeling or breaking. It is primarily used for splicing in high-speed web printing applications.

Polyethylene Splicing
15C770

Polyester Splicing
48UV63

Imperial Tape WxL	Tape Thickness	Tape Adhesive Material	Environment	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
Single-Sided Polyethylene Splicing Tape								
Black								
1 ⅞ in x 36 yd	8 mil	Rubber	Indoor/Outdoor	40° to 200°F	827	Polyken	**15R501**	1
Red								
1 ⅞ in x 60 yd	7.5 mil	Rubber	Indoor Only	30° to 160°F	133-RED	Tapecase	**15C767**	1
	8 mil	Rubber	Indoor/Outdoor	40° to 200°F	827	Polyken	**15R498**	1
Transparent								
1 ⅞ in x 36 yd	8 mil	Rubber	Indoor/Outdoor	40° to 200°F	827	Polyken	**10C010**	1
White								
1 ⅞ in x 36 yd	8 mil	Rubber	Indoor/Outdoor	40° to 200°F	827	Polyken	**15R502**	1
1 ⅞ in x 60 yd	7.5 mil	Rubber	Indoor Only	30° to 160°F	133-WHITE	Tapecase	**15C770**	1
3 in x 5 yd	9 mil	Rubber	Indoor Only	30° to 160°F	S134	Tapecase	**15D499**	1
Single-Sided Polyester Splicing Tape								
Black								
1 in x 72 yd	1.9 mil	Acrylic	Indoor Only	-60° to 300°F	450	3M	**48UV60**	1
Blue								
2 in x 72 yd	3.8 mil	Silicone	Indoor Only	Up to 395°F	781	Polyken	**49AH94**	24
Red								
2 in x 72 yd	1.9 mil	Acrylic	Indoor Only	-60° to 300°F	450	3M	**48UV63**	1
Transparent								
2 in x 36 yd	4.1 mil	Rubber	Indoor Only	40° to 200°F	8901	3M	**2DEK2**	24
White								
1 in x 72 yd	1.9 mil	Acrylic	Indoor Only	-60° to 300°F	450	3M	**48UV62**	1

Double-Sided Splicing Tape

3M

- Indoor use only

Tape has a strong adhesive on both sides and a pull-away liner to assist with application. The liner can be left in place until material is ready to be attached.

Double-Sided Polyester Film—This tape is extra high-strength to withstand rigorous splicing applications without peeling or breaking. Primarily used for splicing in high-speed web printing applications.

Double-Sided Paper—Tape is hand-tearable and maintains its shape when exposed to changes in humidity or temperature. Primarily used for temporary holding of parts during the milling process or for core starting of papers, foils, films, and fabrics.

Double-Sided Polypropylene Film—This tape is high-strength and UV-resistant.

Polyester Splicing
2DEB5

Paper Splicing
48UV69

Polypropylene Splicing
54EN09

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Tape Adhesive Material	Temperature Range	Series	Item No.	Pkg. Qty.
Double-Sided Polyester Film Splicing Tape							
Red							
2 in x 36 yd	6.5 mil	Polyester Film	Acrylic	-40° to 149°F	9420	**2DEB5**	24
Transparent							
1 in x 36 yd	0.5 mil	Polyester Film	Acrylic	40° to 250°F	444	**54EN55**	36
Double-Sided Paper Splicing Tape							
Red							
2 in x 60 yd	1 mil	Paper	Acrylic	-40° to 250°F	469	**48UV69**	1
Tan							
1 in x 36 yd	6 mil	Paper	Rubber	40° to 200°F	410M	**54EN35**	36
2 in x 36 yd	6 mil	Paper	Rubber	40° to 200°F	410M	**54EN12**	24
Double-Sided Polypropylene Film Splicing Tape							
White							
1 in x 36 yd	9 mil	Polyethylene Film	Rubber	-125° to 150°F	9579	**54EN09**	36

Specialty Application Tape

3M · Shurtape

- Indoor use only

Condensation Management Tape—This film tape reduces condensation formed on pipes to minimize the risk of water droplets falling and contaminating areas below. For use in applications where intermittent high humidity conditions cause condensation, such as the hot cleaning process in food processing facilities that must maintain a cool environment.

Light Blocking Tape—It is designed to block light exposure on sensitive materials such as film, graphic art, and printing materials. This film tape is primarily used in photography and lithography applications.

Riveter's Tape—This tape holds rivets in place to prevent movement during the riveting process. It is zone-coated, which means it only has adhesive on the sides of the tape and not down the center. The transparent, adhesive-free center of the tape provides visibility without leaving residue.

Condensation Management Tape
447V21

Light Blocking
15D059

Riveter's Tape
2DEE9

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
Condensation Management Tape								
Blue								
1 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V23**	16
2 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V26**	8
Red								
1 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V22**	16
2 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V25**	8
Transparent								
1 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V21**	16
2 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V24**	8
4 in x 60 yd	11.8 mil	Polyethylene Film	Rubber	30° to 175°F	CMFi	3M	**447V27**	4
Light Blocking Tape								
Black								
1 ⅞ in x 60 yd	6.5 mil	Crepe Paper	Rubber	45° to 150°F	CP 743	Shurtape	**24K318**	24
Red								
⅜ in x 5 yd	2.4 mil	Vinyl Film	Rubber	Up to 120°F	616	3M	**15D059**	1
½ in x 5 yd	2.4 mil	Vinyl Film	Rubber	Up to 120°F	616	3M	**15C881**	1
1 in x 5 yd	2.4 mil	Vinyl Film	Rubber	Up to 120°F	616	3M	**15C935**	1
1 in x 72 yd	2.4 mil	Vinyl Film	Rubber	Up to 120°F	616	3M	**54EN70**	36
Riveter's Tape								
Yellow								
1 in x 36 yd	2 mil	Polyethylene Film	Acrylic	20° to 120°F	695	3M	**2DEE9**	36

High-Temperature Film Masking Tape & Tape Discs

- Indoor/Outdoor use

These continuous rolls of tape resist high temperatures and conform to uneven surfaces. Thin translucent tape is colored for visibility and removes cleanly from surfaces without slivering or breaking. It is used in masking for powder coating, masking metal surfaces, and solder masking.

Polyimide Film Masking Tape—Tape is thermal, chemical, and abrasion resistant, with higher heat and abrasion resistance than polyester-backed masking tape.

Polyester Film Masking Tape—This tape is flexible with thermal and chemical resistance.

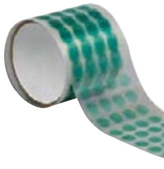
Polyester Film Masking Tape Discs—Discs cover and protect small surfaces, like a screw head, from unwanted exposure. Their uniform shape eliminates the need to trim tape to fit a surface or area.

Imperial Tape WxL	Tape Thickness	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.
High-Temperature Polyimide Film Masking Tape						
Brown						
½ in x 36 yd	2.5 mil	Acrylic	-20° to 350°F	BA Series	Tapecase	**15C630**
	2.5 mil	Silicone	-40° to 500°F	B series	Tapecase	**15C597**
¾ in x 36 yd	2.5 mil	Silicone	-40° to 500°F	B series	Tapecase	**15C598**
1 in x 36 yd	2.5 mil	Acrylic	-20° to 350°F	BA Series	Tapecase	**15C632**
	2.5 mil	Silicone	-40° to 500°F	B series	Tapecase	**15C599**
	2.6 mil	Silicone	-40° to 365°F	BL	Tapecase	**15C558**
2 in x 5 yd	2.5 mil	Silicone	-40° to 500°F	B series	Tapecase	**15C593**
2 in x 36 yd	2.5 mil	Acrylic	-20° to 350°F	BA Series	Tapecase	**15C633**
	2.5 mil	Silicone	-40° to 500°F	B series	Tapecase	**15C601**
	3.5 mil	Silicone	-40° to 500°F	2B Series	Tapecase	**15C617**
High-Temperature Polyester Film Masking Tape						
Green						
⅜ in x 72 yd	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C567**
½ in x 72 yd	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C498**
	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C568**
¾ in x 72 yd	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C569**
1 in x 72 yd	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C501**
	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C570**
2 in x 72 yd	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C502**
	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C572**
4 in x 72 yd	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C505**
	3.3 mil	Silicone	Up to 400°F	M Series	Tapecase	**15C573**

Imperial Tape Shape Diameter	Tape Thickness	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
High-Temperature Polyester Film Masking Tape Discs							
Green							
⅜ in	3.3 mil	Silicone	Up to 400°F	A series	Tapecase	**15C636**	250
½ in	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C489**	250
	3.3 mil	Silicone	Up to 400°F	A series	Tapecase	**15C637**	250
⅝ in	3.3 mil	Silicone	Up to 400°F	A series	Tapecase	**15C638**	250
¾ in	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C495**	250
1 in	3.2 mil	Silicone	Up to 400°F	8992	3M	**15C486**	100

Polyimide Film Tape 15C630

Polyester Film Tape 15C567



Polyester Film Discs 15C489

Double-Sided VHB (Very High Bond) Foam Tape & Tape Shapes

- Acrylic adhesive
- Indoor and outdoor use, except 1YBZ5 and 54EN23 are indoor use only
- Pkg. qty. of 1, except 54EN23 is 9

Continuous rolls of foam tape have a high-strength, double-sided adhesive that forms a permanent, long-term bond when applied with pressure. It has a pull-away liner to assist with application and adheres well to metal, glass, and composites.

TAPE

High-Temperature Firm—They have a denser construction than conformable foam tape and perform best when applied to smooth surfaces, such as metal. Suitable for applications such as bonding for high-temperature paint processing without the use of tools and hardware.

Transparent Firm—They have a denser construction than conformable foam tape and are intended for bonding surfaces together such as glass or clear resin. This foam tape is used to attach clear dispensers or backlit transparent signs to walls without the use of tools and hardware.

Very Conformable—Made of a foam that has more conformability than other foam tape. It adheres to irregular and mismatched surfaces with a thick foam that fills gaps to provide an even adhesive base. Used in general industrial applications to mount a window on a painted control panel or bond a polycarbonate lens over an LCD.

Low-Temperature Conformable—Adheres to irregular and mismatched surfaces. The thick foam fills gaps to provide an even adhesive base. For use in low-temperature applications to attach roofing parts or bond stiffeners to panels without the use of tools and hardware.

Conformable—Tape adheres to irregular and mismatched surfaces with a thick foam that fills gaps to provide an even adhesive base. For use in general industrial applications to display signs and mount wiring ducts or electronic displays without the use of tools and hardware.

Firm—Has a denser construction than conformable foam tape and performs best when applied to smooth surfaces. It is used in general industrial applications to display signs, mount trim, or attach stiffeners to panels without the use of tools and hardware.

CONFORMABLE TAPE SHAPES

- Acrylic adhesive & backing material
- Gray color
- Indoor and outdoor
- Pkg. qty.: 5

Tape shapes eliminate the need to trim tape to cover a surface or area.

High-Temperature Firm 15C281

Transparent Firm 15C294

Very Conformable 1YBZ5

Low-Temperature Conformable 15C358

Conformable 15C310

Firm 15C319

Conformable Tape Shapes 15C348

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Temperature Range	Series	Item No.
Double-Sided VHB High-Temperature Firm Foam Tape					
Gray					
½ in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 194°F	4646	**15C281**
	1⁄16 in	Polyethylene Foam	Up to 300°F	4611	**15C278**
¾ in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 194°F	4646	**15C285**
	1⁄16 in	Polyethylene Foam	Up to 300°F	4611	**15C280**
1 in x 5 yd	1⁄16 in	Polyethylene Foam	Up to 300°F	4611	**15C279**
2 in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 194°F	4646	**15C284**
11 in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 194°F	4646	**15C283**
Double-Sided VHB Transparent Firm Foam Tape					
Transparent					
½ in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C294**
	1⁄16 in	Polyethylene Foam	-31° to 194°F	4910	**15C303**
¾ in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C298**
	1⁄16 in	Polyethylene Foam	-31° to 194°F	4910	**15C307**
1 in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C296**
	1⁄16 in	Polyethylene Foam	-31° to 194°F	4910	**15C305**
2 in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C297**
	1⁄16 in	Polyethylene Foam	-31° to 194°F	4910	**15C306**
6 in x 5 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C301**
12 in x 1 yd	1⁄32 in	Polyethylene Foam	-31° to 200°F	4905	**15C293**
Double-Sided VHB Very Conformable Foam Tape					
Black					
¾ in x 36 yd	1⁄16 in	Acrylic Foam	50° to 300°F	5952	**1YBZ5**
1 in x 36 yd	1⁄16 in	Acrylic Foam	50° to 300°F	5952	**54EN23**

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CONTINUED

Double-Sided VHB (Very High Bond) Foam Tape & Tape Shapes

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Temperature Range	Series	Item No.
Double-Sided VHB Low-Temperature Conformable Foam Tape					
Gray					
½ in x 5 yd	1/16 in	Acrylic Foam	32° to 200°F	4943F	**15C358**
¾ in x 5 yd	1/16 in	Acrylic Foam	32° to 200°F	4943F	**15C362**
	1/16 in	Acrylic Foam	32° to 200°F	4957	**15C390**
1 in x 5 yd	1/16 in	Acrylic Foam	32° to 200°F	4943F	**15C360**
	1/16 in	Acrylic Foam	32° to 200°F	4957	**15C388**
2 in x 5 yd	1/16 in	Acrylic Foam	32° to 200°F	4943F	**15C361**
	1/16 in	Acrylic Foam	32° to 200°F	4957	**15C389**
Double-Sided VHB Conformable Foam Tape					
Gray					
½ in x 5 yd	1/32 in	Acrylic Foam	-31° to 194°F	4926	**15C310**
	1/32 in	Acrylic Foam	-31° to 194°F	4936	**15C325**
	1/32 in	Acrylic Foam	50° to 250°F	RP16	**15C882**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15C886**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C888**
	1/16 in	Acrylic Foam	60° to 200°F	4941	**15C332**
	3/32 in	Acrylic Foam	-31° to 194°F	4991	**15C397**
½ in x 18 yd	1/32 in	Acrylic Foam	50° to 250°F	RP16	**15C835**
	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15C837**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15C839**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C841**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15C843**
½ in x 36 yd	1/32 in	Acrylic Foam	40° to 300°F	4941	**24A690**
¾ in x 5 yd	1/32 in	Acrylic Foam	-31° to 194°F	4926	**15C314**
	1/32 in	Acrylic Foam	-31° to 194°F	4936	**15C329**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15D048**
¾ in x 18 yd	1/32 in	Acrylic Foam	50° to 250°F	RP16	**15D018**
	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15D019**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15D020**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15D021**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15D022**
1 in x 5 yd	1/32 in	Acrylic Foam	-31° to 194°F	4926	**15C312**
	1/32 in	Acrylic Foam	50° to 250°F	RP16	**15C936**
	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15C937**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15C938**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C939**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15C940**
	1/16 in	Acrylic Foam	60° to 200°F	4941	**15C334**
	3/32 in	Acrylic Foam	-31° to 194°F	4991	**15C399**
1 in x 18 yd	1/32 in	Acrylic Foam	50° to 250°F	RP16	**15C822**
	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15C823**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15C824**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C825**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15C826**
2 in x 5 yd	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15C978**
	1/16 in	Acrylic Foam	50° to 250°F	RP32	**15C979**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C980**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15C981**
	1/16 in	Acrylic Foam	60° to 200°F	4941	**15C335**
	3/32 in	Acrylic Foam	-31° to 194°F	4991	**15C401**
2 in x 18 yd	1/32 in	Acrylic Foam	50° to 250°F	RP25	**15C944**
	1/16 in	Acrylic Foam	50° to 250°F	RP45	**15C946**
	1/16 in	Acrylic Foam	50° to 250°F	RP62	**15C947**
11 in x 5 yd	1/32 in	Acrylic Foam	-31° to 194°F	4936	**15C327**
12 in x 5 yd	1/16 in	Acrylic Foam	60° to 200°F	4941	**15C333**
	3/32 in	Acrylic Foam	-31° to 194°F	4991	**15C398**
Double-Sided VHB Firm Foam Tape					
Black					
½ in x 5 yd	1/32 in	Polyester Foam	Up to 200°F	4929	**15C316**
	1/16 in	Acrylic Foam	Up to 200°F	4949	**15C364**
¾ in x 5 yd	1/32 in	Polyester Foam	Up to 200°F	4929	**15C318**
	1/16 in	Acrylic Foam	Up to 200°F	4949	**15C366**
1 in x 5 yd	1/32 in	Polyester Foam	Up to 200°F	4929	**15C317**
	1/16 in	Acrylic Foam	Up to 200°F	4949	**15C365**
White					
½ in x 5 yd	1/32 in	Acrylic Foam	-31° to 230°F	4930	**15C319**
	1/32 in	Acrylic Foam	50° to 200°F	4950	**15C368**
	1/16 in	Acrylic Foam	32° to 200°F	4951	**15C375**
	1/16 in	Acrylic Foam	50° to 160°F	4952	**15C381**
	1/8 in	Acrylic Foam	50° to 300°F	4959	**15C391**
¾ in x 5 yd	1/32 in	Acrylic Foam	-31° to 230°F	4930	**15C323**
	1/32 in	Acrylic Foam	50° to 200°F	4950	**15C372**
	1/16 in	Acrylic Foam	32° to 200°F	4951	**15C379**
	1/16 in	Acrylic Foam	50° to 160°F	4952	**15C385**
	1/8 in	Acrylic Foam	50° to 300°F	4959	**15C395**
1 in x 5 yd	1/32 in	Acrylic Foam	-31° to 230°F	4930	**15C321**
	1/32 in	Acrylic Foam	30° to 200°F	4950	**15C370**
	1/16 in	Acrylic Foam	32° to 200°F	4951	**15C377**
	1/16 in	Acrylic Foam	50° to 160°F	4952	**15C383**
	1/8 in	Acrylic Foam	50° to 300°F	4959	**15C393**
2 in x 5 yd	1/32 in	Acrylic Foam	-31° to 230°F	4930	**15C322**
	1/32 in	Acrylic Foam	50° to 200°F	4950	**15C371**
	1/16 in	Acrylic Foam	32° to 200°F	4951	**15C378**
	1/16 in	Acrylic Foam	50° to 160°F	4952	**15C384**
	1/8 in	Acrylic Foam	50° to 300°F	4959	**15C394**

Imperial Tape WxL	Tape Thickness	Product Form	Temperature Range	Series	Item No.
Double-Sided VHB Conformable Foam Tape Shapes					
Gray					
1 in x 1 in	1/16 in	Square	60° to 200°F	4941	**15C348**
1 in x 2 in	1/16 in	Strip	60° to 200°F	4941	**15C342**
1 ½ in x 1 ½ in	1/16 in	Square	60° to 200°F	4941	**15C347**
2 in dia	1/16 in	Disc	60° to 200°F	4941	**15C349**

Double-Sided Film Tape

General Purpose
45K174

Repositionable
48UV66

- Acrylic adhesive

General Purpose Film—Adhesive on both sides and a pull-away liner, they are intended for one-time, permanent bonding of materials together or mounting of light-duty items such as signs, nameplates, or point-of-purchase (POP) displays.

Repositionable—Adhesive on one side and a light adhesive on the liner side, they are designed for lightweight items such as labels, paper signs, and advertisements that need to be moved or replaced frequently. The light adhesive removes cleanly when items are repositioned.

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Environment	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
Double-Sided General Purpose Film Tape								
Transparent								
½ in x 5 yd	8.3 mil	Polyester-Backed Film Tape	Indoor/Outdoor	-10° to 200°F	9088	3M	**45K179**	1
15/16 in x 54 ¾ yd	5 mil	Polyester-Backed Film Tape	Indoor/Outdoor	-10° to 200°F	9088	3M	**54EN04**	36
1 in x 5 yd	8.3 mil	Polyester-Backed Film Tape	Indoor/Outdoor	-10° to 200°F	9088	3M	**45K174**	1
1 in x 16 ¾ yd	5.5 mil	Polyester-Backed Film Tape	Indoor Only	65° to 75°F	—	Fast Cap	**3VZZ5**	1
2 in x 5 yd	8.3 mil	Polyester-Backed Film Tape	Indoor/Outdoor	-10° to 200°F	9088	3M	**45K175**	1
2 in x 16 ¾ yd	5.5 mil	Polyester-Backed Film Tape	Indoor Only	65° to 75°F	—	Fast Cap	**3WAA1**	1
5 11/16 in x 60 yd	7.9 mil	Polyester-Backed Film Tape	Indoor/Outdoor	Up to 355°F	DCP800A2PW	IPG	**58NV87**	8
White								
1 in x 54 ¾ yd	10.2 mil	Vinyl Film	Indoor Only	0° to 158°F	9087	3M	**54EN47**	18
Double-Sided Repositionable Film Tape								
Transparent								
1 in x 5 yd	3.5 mil	Vinyl Film	Indoor/Outdoor	60° to 125°F	665	3M	**45J518**	1
1 in x 72 yd	2 mil	Polyester-Backed Film Tape	Indoor Only	65° to 150°F	9415PC	3M	**48UV66**	1
2 in x 5 yd	3.5 mil	Vinyl Film	Indoor/Outdoor	60° to 125°F	665	3M	**45J519**	1

Double-Sided Carpet Mounting Tape

44MY42

- Rubber adhesive
- Indoor only

The pull-away liner facilitates easy unwinding and can be left in place until the carpet is ready to be attached. It is often used for temporary carpeting of large areas.

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Temperature Range	Series	Brand	Item No.
Tan						
1 in x 25 yd	11 mil	Cloth	40° to 200°F	105C	Polyken	**15R469**
1 ⅞ in x 25 ¼ yd	11 mil	Cloth	40° to 200°F	105C	Polyken	**16D173**
	11 mil	Cloth	35° to 150°F	—	Polyken	**35UX91**
1 ⅞ in x 36 yd	11 mil	Cloth	40° to 200°F	105C	Polyken	**15R504**
2 13/16 in x 25 ¼ yd	11 mil	Cloth	40° to 200°F	105C	Polyken	**16D174**
White						
1 ⅞ in x 25 ¼ yd	13 mil	Polyester Coated Cloth	50° to 225°F	DF 642	Shurtape	**44MY42**

Slick Surface Glass Cloth
15D462

Slick Surface Film Tape
15D221

Silicone-Free Slick Surface Film
15D237

PTFE & Silicone Slick Surface Tape

- Silicon adhesive, except 2DEF1 is rubber adhesive

PTFE (polytetrafluoroethylene) tape provides a smooth anti-stick surface to reduce friction between moving parts. It withstands high temperatures for covering heated machinery and equipment. It is resistant to chemicals and provides clean-adhesive removal and cleanup of substances such as ink.

Glass Cloth Tape—This tape provides the most heat and abrasion resistance of all PTFE film tape. Reinforced glass cloth backing withstands tears, punctures, and high heat. It is used in applications such as heat sealing and ironing equipment, and on high-contact parts such as conveyor rollers and belts.

Film Tape—Film tape provides higher chemical resistance than glass cloth, and removes cleanly after applied.

Silicone-Free Film Tape—Used for composite bonding and painting applications where non-silicone tape is preferred.

Imperial Tape Width	Tape Thickness	Environment	Temperature Range	Series	Brand	Imperial Tape Length 5 yd Item No.	Imperial Tape Length 36 yd Item No.
PTFE Slick Surface Glass Cloth Tape							
Brown							
¾"	7 mil	Indoor/Outdoor	Up to 500°F	134-5	Tapecase	—	**15D462**
1"	3.2 mil	Indoor/Outdoor	-100° to 400°F	5451	3M	**15C448**	**15C903**
	6 mil	Indoor/Outdoor	-100° to 400°F	5453	3M	**15C455**	**15C904**
2"	3.2 mil	Indoor/Outdoor	-100° to 400°F	5451	3M	**15C449**	**15C958**
	6 mil	Indoor/Outdoor	-100° to 400°F	5453	3M	**15C456**	**15C959**
Tan							
1"	5 mil	Indoor/Outdoor	Up to 500°F	134-3	Tapecase	**15C709**	**15D352**
	7 mil	Indoor/Outdoor	Up to 500°F	134-5	Tapecase	**15C718**	**15D353**
1½"	5 mil	Indoor/Outdoor	Up to 500°F	134-3	Tapecase	**15C715**	**15D385**
	7 mil	Indoor/Outdoor	Up to 500°F	134-5	Tapecase	**15C726**	**15D386**
2"	5 mil	Indoor/Outdoor	Up to 500°F	134-3	Tapecase	**15C714**	**15D417**
	7 mil	Indoor/Outdoor	Up to 500°F	134-5	Tapecase	**15C723**	**15D418**
	12 mil	Indoor/Outdoor	Up to 500°F	134-10	Tapecase	**15C733**	**15D416**
3"	5 mil	Indoor/Outdoor	Up to 500°F	134-3	Tapecase	**15C716**	**15D450**
	7 mil	Indoor/Outdoor	Up to 500°F	134-5	Tapecase	**15C724**	**15D451**
6"	12 mil	Indoor/Outdoor	Up to 500°F	134-10	Tapecase	**15C730**	—
PTFE Slick Surface Film Tape							
Brown							
1"	3.7 mil	Indoor Only	-65° to 500°F	5490	3M	—	**1VJT6**
2"	3.7 mil	Indoor Only	-65° to 500°F	5490	3M	—	**1VJT7**
Gray							
½"	3.7 mil	Indoor/Outdoor	-65° to 400°F	5490	3M	**15D215**	**15D221**
¾"	3.7 mil	Indoor/Outdoor	-65° to 400°F	5490	3M	**15D219**	**15D223**
1"	3.7 mil	Indoor/Outdoor	-65° to 400°F	5480	3M	**15D203**	**15C905**
2"	6.8 mil	Indoor/Outdoor	-65° to 400°F	5481	3M	**15D211**	**15C961**
3"	3.7 mil	Indoor/Outdoor	-65° to 400°F	5490	3M	**15D220**	**15D224**
Silicone-Free PTFE Slick Surface Film Tape							
Brown							
2"	4 mil	Indoor Only	40° to 300°F	5498	3M	—	**2DEF1**
Tan							
2"	4 mil	Indoor/Outdoor	40° to 300°F	5498	3M	**15D237**	**15C963**

15C971

15D269

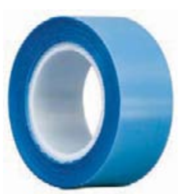
Preservation Sealing Tape

- Tape thickness: 9.5 mil
- Polyethylene film backing
- Rubber adhesive
- Indoor and outdoor use

Continuous rolls of tape are often used to seal heavy sheeting or tarp to protect and preserve material and equipment for transportation and storage in marine, military, and industrial applications.

Imperial Tape WxL	Temperature Range	Series	Item No.
Black			
2 in x 5 yd	Up to 170°F	481	**15C971**
2 in x 36 yd	Up to 170°F	481	**54EN32**
3 in x 5 yd	Up to 170°F	481	**15D054**
White			
3 in x 36 yd	Up to 160°F	4811	**54EN77**
6 in x 5 yd	Up to 170°F	4811	**15D269**

PE Film Tape
15D189



PO Film Tape
15D581

UHMW Slick Surface Film Tape

- 5-yd. length

UHMW (ultra-high molecular weight) slick surface film tape is used to limit squeaking, rattling, and vibrations produced in applications with heavy moving parts or materials. This tape has a liner for die-cutting uniform shapes to fit specific applications and is used in aerospace, automotive, printing, and general maintenance and repair industries.

PE Slick Surface—The polyethylene (PE) backing is resistant to abrasions and chemicals. It provides clean adhesive removal and cleanup when using substances such as ink. It is used on conveyor guard rails, chutes, plates, and belts.

PO Slick Surface—The polyolefin (PO) backing is resistant to abrasions. It is used on conveyor guide rails and chutes that require a more durable surface, such as glass bottling processing. This tape can also be used on drawers to create friction-free movement.

Imperial Tape Width	Tape Thickness	Environment	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.
UHMW PE Slick Surface Film Tape							
Transparent							
2"	11.7 mil	Indoor Only	Rubber	-30° to 225°F	5423	3M	**15D182**
	5 mil	Indoor/Outdoor	Acrylic	-30° to 225°F	5425	3M	**15D189**
3"	5 mil	Indoor/Outdoor	Acrylic	-30° to 225°F	5425	3M	**15D191**
6"	6.7 mil	Indoor Only	Rubber	-30° to 225°F	5421	3M	**15D178**
	11.7 mil	Indoor Only	Rubber	-30° to 225°F	5423	3M	**15D185**
UHMW PO Slick Surface Film Tape							
Tan							
2"	11.5 mil	Indoor/Outdoor	Acrylic	-40° to 225°F	2302-10	Tapecase	**15D581**
Transparent							
1"	21.5 mil	Indoor/Outdoor	Acrylic	-40° to 225°F	2302-20	Tapecase	**15D583**

General Purpose
15C772

UV-Resistant
15C704

Abrasion-Resistant
45K144

Surface Protection Film Tape

- Indoor and outdoor

These continuous rolls of translucent film tape temporarily protect surfaces. This tape has a mild adhesive and removes cleanly after use.

General Purpose—Protects glass, wood, metal, and plastic surfaces from scuffs, scrapes, and paint exposure.

UV-Resistant—Protects glass, metal, and painted surfaces that are exposed to sunlight.

Abrasion-Resistant—For applications that need a stronger tape to withstand punctures, tearing and erosion. It has a polyester liner to assist in applying the tape to surfaces for temporary protection.

Imperial Tape WxL	Tape Thickness	Tape Backing Material	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.
General Purpose Surface Protection Film Tape							
White							
2 in x 36 yd	9 mil	Polyethylene Film	Silicone	30° to 160°F	S134	Tapecase	**15C772**
3 in x 36 yd	9 mil	Polyethylene Film	Silicone	30° to 160°F	S134	Tapecase	**15C773**
UV-Resistant Surface Protection Film Tape							
Transparent							
4 in x 200 yd	2 mil	Polyethylene Film	Acrylic	Not Rated	UV-PRO	Tapecase	**15C704**
6 in x 200 yd	2 mil	Polyethylene Film	Acrylic	Not Rated	UV-PRO	Tapecase	**15C705**
12 in x 200 yd	2 mil	Polyethylene Film	Acrylic	Not Rated	UV-PRO	Tapecase	**15C706**
Abrasion-Resistant Surface Protection Film Tape							
Transparent							
1 ½ in x 5 yd	14 mil	Polyurethane Film	Acrylic	40° to 275°F	8561	3M	**45K150**
2 in x 5 yd	14 mil	Polyurethane Film	Acrylic	40° to 275°F	8561	3M	**45K144**
3 in x 5 yd	14 mil	Polyurethane Film	Acrylic	40° to 275°F	8561	3M	**45K145**

Firm Foam Tape
49UU23

Transparent Firm Foam Tape
45DV48

Conformable Foam Tape
15C142

Removable Firm Foam Tape
15C287

Conformable Foam Tape Strip
15D099

GORILLA 3M BRADY TapeCase

Double-Sided Foam Tape & Tape Shapes

These continuous rolls of strong foam tape have a double-sided adhesive with a pull-away liner.

TAPE

- Tape rolls sold in qty. of 1, except 54EN24 is 9

Firm—This tape has a denser construction than conformable foam tape and performs best when applied to smooth surfaces. It is used for mounting heavier items where a stronger bond is needed.

Transparent Firm—Used for bonding transparent surfaces together such as glass or clear resin.

Conformable—The thick foam fills gaps in irregular or mismatched surfaces, such as tile or brick, to provide an even adhesive base for mounting items. Used to mount signs, nameplates, and dispensers.

Removable Firm—This tape has a denser construction than conformable foam tape and performs best when applied to smooth surfaces. It is used for mounting heavier items where a stronger bond is needed.

TAPE SHAPES

- Acrylic adhesive, except 5T160 is rubber

Precut shapes eliminate the need to trim tape to cover a surface or area.

Imperial Tape WxL	Tape Thickness	Tape Adhesive Material	Tape Foam Backing Material*	Environment	Temperature Range	Series	Brand	Item No.
Double-Sided Firm Foam Tape								
Black								
1 in x 1 ¾ yd	1/16 in	Acrylic	Acrylic	Indoor/Outdoor	40° to 230°F	—	Gorilla	**49UU23**
Double-Sided Transparent Firm Foam Tape								
Transparent								
1 in x 1 ¾ yd	1/32 in	Acrylic	Acrylic	Indoor/Outdoor	40° to 300°F	—	Gorilla	**45DV48**
1 in x 4 ¼ yd	1/16 in	Rubber	Acrylic	Indoor/Outdoor	40° to 245°F	—	Gorilla	**499L92**
Double-Sided Conformable Foam Tape								
Black								
½ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4052	3M	**15C168**
	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15C266**
	1/16 in	Acrylic	PUR	Indoor/Outdoor	50° to 200°F	4056	3M	**15C174**
¾ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4052	3M	**15C172**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C248**
¾ in x 36 yd	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15D146**
¾ in x 72 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15D144**
1 in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4052	3M	**15C170**
	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4462	3M	**15C232**
	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15C270**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C244**
1 in x 36 yd	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15D145**
1 in x 72 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15D143**
2 in x 5 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15C260**
	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4462	3M	**15C234**
	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15C272**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C246**
6 in x 5 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15C264**
Tan								
¼ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C160**
	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C151**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C141**
	¼ in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4004	3M	**15C134**
½ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C158**
	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C149**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C139**
	¼ in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4004	3M	**15C132**
¾ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C164**
	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C155**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C145**
	¼ in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4004	3M	**15C137**
¾ in x 7 yd	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**1YBX5**
¾ in x 15 yd	1/16 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**1YBX4**
1 in x 5 yd	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C152**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C142**
	¼ in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4004	3M	**15C135**
1 ½ in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C162**
	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C153**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C143**
2 in x 5 yd	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C163**
	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C154**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C144**
	¼ in	Acrylic	PUR	Indoor/Outdoor	Up to 220°F	4004	3M	**15C136**
3 in x 5 yd	3/32 in	Acrylic	PUR	Indoor Only	50° to 220°F	4016	3M	**15C156**
	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C146**
4 in x 5 yd	⅛ in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4008	3M	**15C147**
White								
½ in x 5 yd	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4462	3M	**15C230**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C242**
¾ in x 5 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15C263**
	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4462	3M	**15C236**
	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15C275**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C249**
1 in x 5 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15C259**
	1/32 in	Acrylic	PUR	Indoor/Outdoor	50° to 220°F	4032	3M	**15C161**
	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4462	3M	**15C233**
	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**15C271**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C245**
1 in x 36 yd	1/16 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4496	3M	**54EN24**
2 in x 5 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 180°F	4492	3M	**15C261**
	1/32 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C239**
	1/16 in	Rubber	PE	Indoor Only	50° to 158°F	4466	3M	**15C247**
Double-Sided Removable Firm Foam Tape								
Transparent								
½ in x 4 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**15C287**
½ in x 27 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**32GV21**
¾ in x 4 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**15C291**
¾ in x 27 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**32GV22**
1 in x 4 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**15C289**
1 in x 27 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**32GV23**
2 in x 4 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**15C290**
6 in x 4 yd	1/32 in	Acrylic	PE	Indoor/Outdoor	50° to 212°F	4658F	3M	**15C292**

Imperial Tape WxL	Tape Thickness	Tape Foam Backing Material*	Product Form	Temp. Range (F)	Environment	Series	Brand	Item No.	Pkg. Qty.
Double-Sided Firm Foam Tape Shapes									
White									
¾ in x 4 ½ in	1/32 in	PE	Strip	30° to 180°	Indoor/Outdoor	Bradyfoam	Brady	**5T160**	4
Double-Sided Conformable Foam Tape Shapes									
Black									
1 ½ in dia	1/16 in	PE	Disc	20° to 210°	Indoor/Outdoor	FTC	Tapecase	**15C803**	25
Tan									
1 in x 1 in	1/16 in	PUR	Square	50° to 380°	Indoor/Outdoor	4026	3M	**24A742**	1000
	⅛ in	PUR	Square	50° to 220°	Indoor/Outdoor	4008	3M	**15D096**	162
1 in x 3 in	3/32 in	PUR	Strip	50° to 220°	Indoor Only	4016	3M	**15D099**	108
	⅛ in	PUR	Strip	50° to 220°	Indoor/Outdoor	4008	3M	**15D097**	108

** PUR = polyurethane. PE = polyethylene.*

Adhesive Transfer Tape

These continuous rolls consist of a very thin adhesive layer. The adhesive is applied to a surface and the pull-away liner is removed. The liner protects the adhesive side of a single- or double-sided tape until it's ready to be applied.

Reverse-Wound—This tape is wound onto a roll with the adhesive side out. It is designed to be loaded into an adhesive transfer gun (ATG) dispenser (sold on this page) where the adhesive is applied while the liner is pulled away. It is used for light-duty mounting in repetitive print and framing processes where a uniform application of adhesive is needed.

General Purpose—Tape does not have a carrier like double-sided tape. Adhesive is applied to a surface and the pull-away liner is removed. For use on a variety of surfaces including metal, glass, wood, and paper. It is primarily used for light-duty mounting of signs, posters, picture frame mat boards, and dust covers.

Reverse-Wound 45AW55

General Purpose 24A663

Imperial Tape WxL	Tape Thickness	Environment	Tape Adhesive Material	Temperature Range	Series	Brand	Item No.	Pkg. Qty.
Reverse-Wound Adhesive Transfer Tape								
Densified Kraft Paper Liner								
½ in x 18 yd	5 mil	Indoor Only	Acrylic	-40° to 250°F	ATG 969	3M	**1F241**	1
½ in x 60 yd	2 mil	Indoor Only	Acrylic	-40° to 250°F	ATG 924	3M	**29WT17**	1
¾ in x 36 yd	5 mil	Indoor Only	Acrylic	-40° to 250°F	ATG 969	3M	**54EN50**	48
Kraft Paper Liner								
¾ in x 36 yd	2 mil	Indoor Only	Acrylic	10° to 150°F	154 ATG	Protapes	**45AW55**	1
Poly Coated Kraft Paper Liner								
½ in x 36 yd	2 mil	Indoor Only	Acrylic	-40° to 180°F	ATG 928	3M	**49H655**	12
General Purpose Adhesive Transfer Tape								
Densified Kraft Paper Liner								
½ in x 10 ¾ yd	32 mil	Indoor Only	Rubber	32° to 105°F	TC 485	Tapecase	**15D741**	1
½ in x 16 ¼ yd	32 mil	Indoor Only	Rubber	32° to 105°F	TC 485	Tapecase	**15D740**	1
½ in x 60 yd	2 mil	Indoor/Outdoor	Acrylic	-60° to 250°F	465	3M	**54EN61**	72
¾ in x 10 ¾ yd	16 mil	Indoor Only	Rubber	32° to 105°F	TC 485	Tapecase	**15D743**	1
¾ in x 16 ¼ yd	32 mil	Indoor Only	Rubber	32° to 105°F	TC 485	Tapecase	**15D742**	1
1 in x 16 ¼ yd	32 mil	Indoor Only	Rubber	32° to 105°F	TC 485	Tapecase	**15D738**	1
1 in x 60 yd	2 mil	Indoor/Outdoor	Acrylic	-60° to 250°F	465	3M	**54EN13**	36
1 ½ in x 60 yd	2 mil	Indoor/Outdoor	Acrylic	-60° to 250°F	465	3M	**24A663**	1
Poly Coated Kraft Paper Liner								
¾ in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15D023**	1
	5.2 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	468MP	3M	**15D024**	1
1 in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15C833**	1
	5.2 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	468MP	3M	**15C834**	1
2 in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15C948**	1
4 in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15D108**	1
6 in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15D246**	1
12 in x 20 yd	2.3 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	467MP	3M	**15C846**	1
	5.2 mil	Indoor/Outdoor	Acrylic	-40° to 400°F	468MP	3M	**15C848**	1

45AW62

1F238

Adhesive Transfer Tape Dispensers

- 1" compatible core dia.

Adhesive transfer gun (ATG) dispensers are designed for reverse-wound adhesive transfer tape (sold on this page), which is tape wound with the adhesive side out. The dispenser applies the adhesive while at the same time peeling up the liner and threading it back into the dispenser. For use in light-duty mounting in repetitive print and framing processes where a uniform application of adhesive is needed.

Dispenser Style	Minimum Tape Width	Maximum Tape Width	Color	Brand	Item No.
Handheld	¼ in	¾ in	Blue	Protapes	**45AW62**
Handheld	½ in	¾ in	Blue	3M	**29WR96**
Handheld	½ in	¾ in	Yellow	3M	**1F238**

Adhesive Transfer Tape Squares

Poly Coated Kraft Paper 15C892

- Indoor and outdoor use

These precut shapes consist of a very thin transparent adhesive layer. The adhesive is applied to a surface and the pull-away liner is removed. Tape performs well on a variety of surfaces including metal, glass, wood, and paper. For use on light-duty mounting of signs, posters, picture frame mat boards, and dust covers.

Imperial Tape WxL	Tape Thickness	Tape Adhesive Material	Temperature Range	Series	Item No.	Pkg. Qty.
Glassine Paper Liner						
12 in x 12 in	2 mil	Acrylic	-40° to 350°F	9626	**24WH08**	12
	5 mil	Acrylic	-40° to 250°F	950	**24WG93**	6
Poly Coated Kraft Paper Liner						
12 in x 12 in	2.3 mil	Acrylic	-40° to 400°F	467MP	**15C892**	12
	2.3 mil	Acrylic	-40° to 400°F	467MP	**24WG68**	12
	5.2 mil	Acrylic	-40° to 400°F	468MP	**15C893**	12
	6.7 mil	Acrylic 300MP/ Acrylic 300LSE	-40° to 300°F	9490LE	**24WG84**	12

VHB (Very High Bond) Adhesive Transfer Tape & Shapes

TAPE

- Acrylic adhesive
- Poly coated kraft paper liner
- Indoor and outdoor use

These continuous rolls of adhesive transfer tape have a high-strength transparent adhesive that forms a permanent, long-term bond when applied with pressure. It is UV- and chemical-resistant. It consists of a very thin adhesive layer only, and does not have a carrier like double-sided tape.

The adhesive is applied to a surface and the pull-away liner is removed, exposing the adhesive for immediate bonding. This adhesive transfer tape can replace metal fasteners and liquid adhesive for mounting frames, metal trim, and stiffeners to panels.

TAPE SQUARES, STRIPS & DISCS

- 2 mil thickness

Tape shapes eliminate the need to trim tape to cover a surface or area.

Transfer Tape 24WG10

Transfer Tape 24WG09

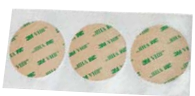
Imperial Tape WxL	2 mil Thickness Temperature Range	Series	Item No.	Pkg. Qty.	5 mil Thickness Temperature Range	Series	Item No.	Pkg. Qty.	10 mil Thickness Temperature Range	Series	Item No.	Pkg. Qty.
VHB Adhesive Transfer Tape												
½ in x 5 yd	-40° to 500°F	F9460PC	**24WG10**	8	-40° to 500°F	F9469PC	**24WG18**	6	50° to 500°F	F9473PC	**24WG27**	4
¾ in x 5 yd	-40° to 500°F	F9460PC	**24WG15**	6	-40° to 500°F	F9469PC	**24WG23**	4	50° to 500°F	F9473PC	**24WG32**	2
1 in x 5 yd	-40° to 500°F	F9460PC	**24WG13**	4	-40° to 500°F	F9469PC	**24WG21**	2	50° to 500°F	F9473PC	**24WG30**	2
2 in x 5 yd	-40° to 500°F	F9460PC	**24WG14**	2	-40° to 500°F	F9469PC	**24WG22**	2	50° to 500°F	F9473PC	**24WG31**	1
3 in x 5 yd	-40° to 500°F	F9460PC	**24WG16**	2	-40° to 500°F	F9469PC	**24WG24**	1	50° to 500°F	F9473PC	**24WG33**	1
4 in x 5 yd	-40° to 500°F	F9460PC	**24WG17**	1	-40° to 500°F	F9469PC	**24WG25**	1	50° to 500°F	F9473PC	**24WG34**	1
6 in x 5 yd	-40° to 500°F	F9460PC	**24WG09**	1	-40° to 500°F	F9469PC	**24WG26**	1	50° to 500°F	F9473PC	**24WG35**	1
12 in x 5 yd	-40° to 500°F	F9460PC	**24WG11**	1	-40° to 500°F	F9469PC	**24WG19**	1	50° to 500°F	F9473PC	**24WG28**	1

Imperial Tape WxL	Temperature Range	Series	Pkg. Qty. 5 Item No.	Pkg. Qty. 100 Item No.
VHB Adhesive Transfer Tape Squares				
½ in x ½ in	-40° to 500°F	F9460PC	**45K693**	—
¾ in x ¾ in	-40° to 500°F	F9460PC	**45K705**	—
1 in x 1 in	-40° to 500°F	F9460PC	**45K697**	—
1 ½ in x ½ in	-40° to 500°F	F9460PC	—	**45K673**
1 ½ in x 1 ½ in	-40° to 500°F	F9460PC	**45K688**	—
2 in x 2 in	-40° to 500°F	F9460PC	**45K699**	**45K677**

Imperial Tape WxL	Temperature Range	Series	Pkg. Qty. 5 Item No.	Pkg. Qty. 100 Item No.
VHB Adhesive Transfer Tape Strips				
½ in x 2 in	-40° to 500°F	F9460PC	**45K690**	**45K674**
½ in x 3 in	-40° to 500°F	F9460PC	**45K691**	**45K675**
½ in x 4 in	-40° to 500°F	F9460PC	**45K692**	**45K676**
¾ in x 2 in	-40° to 500°F	F9460PC	**45K702**	**45K678**
¾ in x 3 in	-40° to 500°F	F9460PC	**45K703**	**45K679**
¾ in x 4 in	-40° to 500°F	F9460PC	**45K704**	**45K680**
1 in x 2 in	-40° to 500°F	F9460PC	**45K694**	**45K669**
1 in x 3 in	-40° to 500°F	F9460PC	**45K695**	**45K670**
1 in x 4 in	-40° to 500°F	F9460PC	**45K696**	**45K671**

Tape Squares 45K693

Tape Strips 45K690

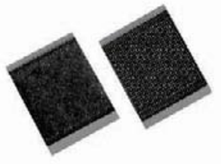


Tape Discs 45K689

Imperial Tape Shape Diameter	Temperature Range	Series	Pkg. Qty. 5 Item No.	Pkg. Qty. 100 Item No.
VHB Adhesive Transfer Tape Discs				
½ in	-40° to 500°F	F9460PC	**45K689**	—
¾ in	-40° to 500°F	F9460PC	**45K701**	—
1 in	-40° to 500°F	F9460PC	**45K686**	—
1 ½ in	-40° to 500°F	F9460PC	**45K687**	**45K684**
2 in	-40° to 500°F	F9460PC	**45K698**	**45K685**

Cut-to-Length Roll
5GTN7

Cut-to-Length Retail Pack
1F215



Hook-and-Loop Set
16U728

Dots
5GTT5

Adhesive Hook-and-Loop Tape and Shapes

- Strips of stiff hooks and pliable loops engage to form quick-fastening attachment
- VELCRO brand rubber adhesive features a strong water-resistant closure, excluding retail packs

L	W	HOOK BLACK Item No.	HOOK WHITE Item No.	LOOP BLACK Item No.	LOOP WHITE Item No.
VELCRO Brand Cut-to-Length Rolls					
Acrylic Adhesive					
75 ft	½"	5GTN7	5GTN5	5GTN8	5GTN6
75 ft	⅝"	5GTP1	5GTN9	5GTP2	5GTP0
75 ft	¾"	5GTP5	5GTP3	5GTP6	5GTP4
75 ft	1"	5GTP9	5GTP7	5GTR0	5GTP8
75 ft	1½"	5GTR3	5GTR1	5GTR4	5GTR2
75 ft	2"	G8955	G8955	G8956	G8956
75 ft	4"	G8957	G8957	5GTT2	5GTT0
Rubber Adhesive					
75 ft	1"	5JLF7	—	5JLF8	—
75 ft	2"	5JLF9	—	5JLG0	—
Scotchmate Cut-to-Length Rolls					
Acrylic Adhesive					
150 ft	1"	1F222	1F220	1F223	1F221
3M Cut-to-Length Rolls					
General Purpose Rubber Adhesive					
15 ft	1"	—	—	16U608 *	—

W	Brand	BLACK Item No.	WHITE Item No.
Cut-to-Length Rolls, 15 ft Retail Packs			
Rubber Adhesive			
¾"	VELCRO Brand	5JLD8	5JLD7
¾"	Tapecase	16U785	16U786
1"	Scotchmate	1F216	1F215
2"	VELCRO Brand	5JLE1	5JLE0

Dot Dia.	Color	Item No.	Pkg. Qty.
VELCRO Brand Dots, Retail Packs			
Rubber Adhesive			
¾"	Beige	5JLD9	200
¾"	Black	6PXV7	100
¾"	White	6PXV6	100

L	W	Color	LOOP Item No.	HOOK Item No.
3M Fire-Resistant Hook and Loop Rolls				
Rubber Adhesive				
150 ft	1"	Black	29WR49	29WR51

L	W	Pkg. Qty.	BLACK Item No.	WHITE Item No.
VELCRO Brand Hook-and-Loop Set				
Acrylic Adhesive				
1"	1"	50	5JLH2	5JLH3
4"	1"	50	5JLH4	5JLH5
2"	2"	50	5JLH6	5JLH7
Rubber Adhesive				
⅞"	⅞"	12	6PXV4	6PXV3
Approved Vendor Hook-and-Loop Set				
Rubber Adhesive				
1"	1"	100	16U728	16U729
2"	1"	100	16U730	16U733
2"	1"	200	16U731	16U734
2"	1"	400	16U732	16U735
3"	1"	100	16U736	16U739
3"	1"	200	16U737	16U740
3"	1"	300	16U738	16U741
6"	1"	50	16U742	16U745
6"	1"	75	16U743	16U746
6"	1"	150	16U744	16U747
12"	1"	25	16U748	16U751
12"	1"	50	16U749	—
12"	1"	75	—	16U753
3M Hook-and-Loop Set				
Plasticizer Resistant Acrylic Adhesive				
1"	1"	100	16U586 *	—
2"	1"	100	16U593 *	—
3"	1"	100	16U601 *	—
Premium Performance Acrylic Adhesive				
1"	1"	100	16U591 *	—
2"	1"	100	16U598 *	—
3"	1"	100	16U606 *	—
General Purpose Rubber Adhesive				
1"	1"	100	16U587 *	—
2"	1"	100	16U594 *	—
3"	1"	100	16U602 *	—
Medium Tack Synthetic Rubber Adhesive				
1"	1"	100	16U589 *	—
2"	1"	100	16U596 *	—
3"	1"	100	16U604 *	—
High Tack Synthetic Rubber Adhesive				
1"	1"	100	16U588 *	—
2"	1"	100	16U595 *	—
3"	1"	100	16U603 *	—

	HOOK								LOOP			
	VELCRO BRAND ACRYLIC ADHESIVE				APPROVED VENDOR RUBBER ADHESIVE				VELCRO BRAND ACRYLIC ADHESIVE			
	BLACK		WHITE		BLACK		WHITE		BLACK		WHITE	
Dot Dia.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Dots												
⅜"	5GTT5	1800	5GTT3	1800	16U754	1890	—	—	5GTT6	1800	5GTT4	1800
½"	5GTT9	1440	5GTT7	1440	16U755	1565	16U760	1565	5GTU0	1440	5GTT8	1440
⅝"	5GTU3	1200	5GTU1	1200	16U756	1261	16U761	1261	5JLC4	1200	5GTU2	1200
¾"	5JLC7	1028	5JLC5	1028	16U757	1030	16U762	1030	5JLC8	1028	5JLC6	1028
⅞"	5JLD1	900	5JLC9	900	16U758	945	16U763	945	5JLD2	900	5JLD0	900
1⅜"	5JLD5	600	5JLD3	600	—	—	—	—	5JLD6	600	5JLD4	600

** TapeCase product manufactured from 3M material.*

Reclosable Fasteners

3M Dual Lock Interlocking mushroom-shaped stems snap together to provide tensile strength strong enough to replace mechanical fasteners. Acrylic adhesive backing is suitable for outdoor use. Bond to glass, bare metal, sealed wood, vinyl, and polystyrene. Low-profile models are thinner and more flexible.

6JT53

1YBZ7

16U698

W	L	Adhesive Type	Color	Item No.
Reclosable Fastener Rolls				
Self-Mating				
¾ in	150 ft	Rubber Adhesive	Black	29WR55
¾ in	150 ft	Acrylic Adhesive	Black	29WR56
1 in	30 ft	Acrylic Adhesive	Black	16U579 *
1 in	30 ft	Acrylic Adhesive	Clear	16U580 *
1 in	30 ft	Rubber Adhesive	Black	16U578 *
1 in	150 ft	Acrylic Adhesive	Black	6JT53
1 in	150 ft	Acrylic Adhesive	Clear	6JT64
1 in	150 ft	Rubber Adhesive	Black	1YBZ7
Self-Mating, Low Profile				
1 in	30 ft	Acrylic Adhesive	Clear	16U583 *
1 in	30 ft	Acrylic Adhesive	Black	16U584 *
Reclosable Fastener Mini-Packs				
Self-Mating				
1 in	15 ft	Acrylic Adhesive	Clear	1F219

Description	Adhesive Type	Pkg. Qty.	BLACK Item No.	CLEAR Item No.
Reclosable Fastener Shapes				
Square				
1 in W x 1 in L	Acrylic Adhesive	100	16U698 *	16U702 *
1 in W x 1 in L	Rubber Adhesive	100	16U590 *	—
Square, Low Profile				
1 in W x 1 in L	Acrylic Adhesive	100	16U708 *	16U705 *
Rectangle				
1 in W x 2 in L	Acrylic Adhesive	100	16U699 *	16U703 *
1 in W x 3 in L	Acrylic Adhesive	100	16U701 *	16U704 *
1 in W x 2 in L	Rubber Adhesive	100	16U597 *	—
1 in W x 3 in L	Rubber Adhesive	100	16U605 *	—
Rectangle, Low Profile				
1 in W x 2 in L	Acrylic Adhesive	100	16U709 *	16U706 *
1 in W x 3 in L	Acrylic Adhesive	100	16U710 *	16U707 *
Dots, Low Profile				
⅜" Dia. x 75 ft. L	Acrylic Adhesive	1800	—	5JLG1
½" Dia. x 75 ft. L	Acrylic Adhesive	1440	—	5JLG2
¾" Dia. x 75 ft. L	Acrylic Adhesive	1028	—	5JLG3
⅞" Dia. x 75 ft. L	Acrylic Adhesive	900	—	5JLG4

** TapeCase product manufactured from 3M material.*

Nonadhesive Reclosable Hook-and-Loop Rolls

5JLE4

Thin, back-to-back fastener with 1 side covered in hooks and the reverse side covered in loops. For weather-resistant label, write on loop side. Used for cable management.

W	L	BLACK Item No.	WHITE Item No.	RED Item No.	BLUE Item No.	ORANGE Item No.
VELCRO Brand One Wrap Tape						
0.5"	75 ft	5JLE2	—	—	—	—
0.75"	75 ft	5JLE3	5JLE5	5JLE4	5JLE6	5JLE7
¾"	37 ft 6 in	5JLH8	5JLJ0	5JLH9	5JLJ1	5JLJ2
1"	75 ft	5JLE8	—	—	—	—
1.5"	75 ft	5JLE9	—	—	—	—
2"	75 ft	5JLF0	—	—	—	—

W	L	Pkg. Qty.	BLACK Item No.	WHITE Item No.	RED Item No.	BLUE Item No.	GREEN Item No.
VELCRO Brand One Wrap Straps							
0.75"	8"	45	5JLF1	5JLF2	5JLF3	5JLF4	5JLF5
0.75"	12"	30	5JLF6	—	—	—	—

W	L	BLACK Item No.
3M Rolls		
½"	50 ft	16U646
½"	75 ft	16U650
¾"	5 ft	16U680
¾"	75 ft	16U682
1"	75 ft	16U664
1½"	75 ft	16U660
2"	20 ft	16U666
2"	50 ft	16U668
3"	50 ft	16U684

Cinching Straps

5JLG7

Thin, back-to-back, hook-and-loop fastener. Reusable high-strength strap has plastic buckle and ¼" I.D. grommet. Used for cable management.

W	L	Pkg. Qty.	BLACK Item No.	ORANGE Item No.
1 in	2½ in	25	6PXV5	—
1 in	8 in	10	5JLG7	—
1 in	12 in	10	5JLG8	—
2 in	18 in	10	5JLG9	38W986
2 in	24 in	10	5JLH0	—
2 in	25 in	10	—	38W987
2 in	3 ft	10	5JLH1	38W988

Polypropylene-Backed
36NH82

PVC Natural Rubber-Backed
52CC62

Standard Rubber Packaging Tapes

Tape is shorter than machine length rubber packaging tape and is used in conjunction with a hand tape dispenser.

Polypropylene-Backed Tapes—Material is smooth, flexible, and tear-resistant. It is commonly used for boxes that are made of recycled material, have been previously used, or have rough surfaces.

PVC Natural Rubber-Backed Tapes—Material is strong, flexible, and resistant to heat, chemicals, and abrasion. This tape is quiet when pulled off the roll.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Series	Tape Color	Brand	Item No.	Pkg. Qty.
Polypropylene-Backed Tapes								
Light-Duty, for Packages up to 20 lb.								
1.6 mil	2" x 110-yd	48 mm x 100 m	43 oz/in	HP 100	Clear	Shurtape	**36NH82**	6
1.8 mil	3" x 110-yd	72 mm x 100 m	44 oz/in	HP 200	Clear	Shurtape	**52CC59**	6
Standard-Duty, for Packages from 21 to 45 lb.								
2.5 mil	3" x 110-yd	72 mm x 100 m	44 oz/in	9100	Clear	Ipg	**23M236**	24
Heavy-Duty, for Packages from 46 to 90 lb.								
3 mil	3" x 60-yd	72 mm x 55 m	46 oz/in	1100	Clear	Ipg	**23M249**	24
PVC Natural Rubber-Backed Tapes								
Light-Duty, for Packages up to 20 lb.								
1.9 mil	2" x 55-yd	48 mm x 50 m	13 oz/in	VF 719	Clear	Shurtape	**52CC62**	36
Standard-Duty, for Packages from 21 to 45 lb.								
2.4 mil	1" x 72-yd	25 mm x 66 m	55 oz/in	681	Clear	Scotch	**54EN64**	36

Clear
31HJ46

Colored
23M262

Tan
31HJ53

Standard Acrylic Packaging Tapes

Tape sticks to many surfaces and can withstand harsh environments such as high humidity and temperature extremes. Tapes fit into a hand or counter dispenser.

Clear Acrylic—Adhesive and backing will not yellow, and is commonly used for sealing white and other colored boxes, tubes, and mailers.

Colored Acrylic—Can be used for color coding on boxes, mailers, and tubes. It is commonly used to identify inventory dates, product codes, and warehouse locations.

Tan Acrylic—Tape blends in with Kraft-colored boxes, mailers, and tubes.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Series	Tape Color	Brand	Item No.	Pkg. Qty.
Clear Acrylic Standard Tapes								
Light-Duty, for Packages up to 20 lb.								
1.8 mil	2 in x 55 yd	48 mm x 50 m	18 oz/in	—	Clear	—	**31HJ46**	36
	2 in x 110 yd	48 mm x 100 m	18 oz/in	—	Clear	—	**31HJ47**	36
	3 in x 110 yd	72 mm x 100 m	18 oz/in	—	Clear	—	**31HJ50**	24
Standard-Duty, for Packages from 21 to 45 lb.								
2 mil	2 in x 55 yd	48 mm x 50 m	18 oz/in	—	Clear	—	**31HJ51**	36
	2 in x 110 yd	48 mm x 100 m	18 oz/in	—	Clear	—	**31HJ52**	36
	2 in x 110 yd	48 mm x 100 m	38 oz/in	311+	Clear	3M	**53JU13**	36
	3 in x 110 yd	72 mm x 100 m	18 oz/in	—	Clear	—	**31HJ55**	24
	3 in x 110 yd	72 mm x 100 m	38 oz/in	311+	Clear	3M	**53JV01**	24
2.1 mil	2 in x 110 yd	48 mm x 100 m	17 oz/in	400	Clear	Ipg	**23M243**	36
	3 in x 110 yd	72 mm x 100 m	17 oz/in	400	Clear	Ipg	**23M244**	24
2.5 mil	2 in x 55 yd	48 mm x 50 m	25 oz/in	—	Clear	—	**31HJ57**	36
	2 in x 110 yd	48 mm x 100 m	25 oz/in	—	Clear	—	**31HJ58**	36
	3 in x 55 yd	72 mm x 50 m	25 oz/in	—	Clear	—	**31HJ60**	24
Colored Acrylic Standard Tapes								
Standard-Duty, for Packages from 21 to 45 lb.								
2 mil	2 in x 60 yd	48 mm x 55 m	20 oz/in	321	Yellow	Ipg	**23M262**	36
	2 in x 110 yd	48 mm x 100 m	20 oz/in	321	Green	Ipg	**40W659**	36
Tan Acrylic Standard Tapes								
Standard-Duty, for Packages from 21 to 45 lb.								
2 mil	2 in x 110 yd	48 mm x 100 m	18 oz/in	—	Tan	—	**31HJ53**	36

Clear
24A626

Colored
24A633

Tan
15F812

Standard Hot Melt Packaging Tapes

Tape instantly sticks to boxes, mailers, and tubes for an immediate seal. It resists tearing, splitting, and ripping and releases quicker off the roll than acrylic tape. Material withstands high temperatures and has outstanding holding power and tensile strength. For use by hand or with a dispenser.

Clear Standard Hot Melt Tapes—Clear tape will not yellow. It is commonly used for sealing white and other colored boxes, tubes, and mailers.

Colored Standard Hot Melt Tapes—It is commonly used to identify inventory dates, product codes, and warehouse locations.

Tan Standard Hot Melt Tapes—Tape blends in with Kraft-colored boxes, mailers, and tubes.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Series	Tape Color	Brand	Item No.	Pkg. Qty.
Clear Standard Hot Melt Tapes								
Light-Duty, for Packages up to 20 lb.								
1.8 mil	2 in x 55 yd	48 mm x 50 m	39 oz/in	—	Clear	—	**31HJ31**	6
	2 in x 55 yd	48 mm x 50 m	39 oz/in	—	Clear	—	**31HJ29**	36
	2 in x 110 yd	48 mm x 100 m	32 oz/in	7100	Clear	Ipg	**23M238**	36
	2 in x 110 yd	48 mm x 100 m	39 oz/in	—	Clear	—	**31HJ32**	36
	2 in x 110 yd	48 mm x 100 m	40 oz/in	371	Clear	Scotch	**54EN22**	36
	3 in x 55 yd	72 mm x 50 m	39 oz/in	—	Clear	—	**31HJ35**	24
	3 in x 110 yd	72 mm x 100 m	32 oz/in	7100	Clear	Ipg	**23M263**	24
	3 in x 110 yd	72 mm x 100 m	39 oz/in	—	Clear	—	**31HJ36**	24
Standard-Duty, for Packages from 21 to 45 lb.								
2.1 mil	2 in x 110 yd	48 mm x 100 m	45 oz/in	3071	Clear	Scotch	**29WR67**	36
	3 in x 110 yd	72 mm x 100 m	45 oz/in	3071	Clear	Scotch	**29WR68**	24
2.5 mil	2 in x 55 yd	48 mm x 50 m	40 oz/in	—	Clear	—	**31HJ40**	36
	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Clear	Scotch	**15F814**	1
	2 in x 110 yd	48 mm x 100 m	50 oz/in	373	Clear	Scotch	**15F756**	1
	3 in x 55 yd	72 mm x 50 m	50 oz/in	373	Clear	Scotch	**15F750**	1
	3 in x 110 yd	72 mm x 100 m	50 oz/in	373	Clear	Scotch	**15F763**	1
2.6 mil	2 in x 110 yd	48 mm x 100 m	46 oz/in	3073	Clear	Scotch	**29WR71**	36
	3 in x 110 yd	72 mm x 100 m	46 oz/in	3073	Clear	Scotch	**29WR74**	1
	3 in x 110 yd	72 mm x 100 m	46 oz/in	3073	Clear	Scotch	**29WR72**	24
Heavy-Duty, for Packages from 46 to 90 lb.								
2.6 mil	2 in x 110 yd	48 mm x 100 m	46 oz/in	3073	Clear	Scotch	**29WR73**	1
3 mil	2 in x 55 yd	48 mm x 50 m	47 oz/in	—	Clear	—	**31HJ44**	6
	2 in x 55 yd	48 mm x 50 m	47 oz/in	—	Clear	—	**31HJ43**	36
	3 in x 55 yd	72 mm x 50 m	47 oz/in	—	Clear	—	**31HJ45**	24
3.1 mil	2 in x 55 yd	48 mm x 50 m	55 oz/in	375	Clear	Scotch	**24A626**	1
	3 in x 55 yd	72 mm x 50 m	55 oz/in	375	Clear	Scotch	**15F811**	1
3.4 mil	2 in x 55 yd	48 mm x 50 m	78 oz/in	355	Clear	Scotch	**15F752**	1
Colored Standard Hot Melt Tapes								
Standard-Duty, for Packages from 21 to 45 lb.								
2.5 mil	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Blue	Scotch	**24A635**	1
	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Green	Scotch	**24A750**	1
	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Orange	Scotch	**24A708**	1
	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Red	Scotch	**24A633**	1
Tan Standard Hot Melt Tapes								
Light-Duty, for Packages up to 20 lb.								
1.8 mil	2 in x 110 yd	48 mm x 100 m	39 oz/in	—	Tan	—	**31HJ33**	36
	3 in x 55 yd	72 mm x 50 m	39 oz/in	—	Tan	—	**31HJ37**	24
Standard-Duty, for Packages from 21 to 45 lb.								
2.5 mil	2 in x 55 yd	48 mm x 50 m	50 oz/in	373	Tan	Scotch	**15F815**	1
	3 in x 55 yd	72 mm x 50 m	50 oz/in	373	Tan	Scotch	**15F751**	1
Heavy-Duty, for Packages from 46 to 90 lb.								
3.1 mil	2 in x 55 yd	48 mm x 50 m	55 oz/in	375	Tan	Scotch	**15F812**	1
	3 in x 55 yd	72 mm x 50 m	55 oz/in	375	Tan	Scotch	**15F813**	1

Machine Length Clear Acrylic Packaging Tapes

Tape is longer than standard acrylic packaging tape. It is for use with machines in high-volume applications only, and will not fit on a hand or counter dispenser. The tape is fed through a machine, usually on a conveyor line, that applies the length of tape needed for the package. It will not yellow.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Series	Item No.	Pkg. Qty.
Light-Duty, for Packages up to 20 lb.						
1.7 mil	2 in x 1,000 yd	48 mm x 914 m	16 oz/in	170	**494D40**	6
1.7 mil	3 in x 1,000 yd	72 mm x 914 m	16 oz/in	170	**494D43**	4
Standard-Duty, for Packages from 21 to 45 lb.						
2.1 mil	2 in x 1,000 yd	48 mm x 914 m	17 oz/in	400	**23M233**	6
2.5 mil	2 in x 1,000 yd	48 mm x 914 m	21 oz/in	291	**494D41**	6

494D40

Machine Length Hot Melt Packaging Tapes

Clear
16L025

Tan
31HJ39

Tape instantly sticks to boxes, mailers, and tubes for an immediate seal. It resists tearing, splitting, and ripping and releases quicker off the roll than acrylic tape. Material withstands high temperatures and has outstanding holding power and tensile strength. For use with case sealer machines only, and will not fit on a hand or counter dispenser.

Clear Machine Length Hot Melt Tapes—Tape will not yellow. It is commonly used for sealing white and other colored boxes, tubes, and mailers.

Tan Machine Length Hot Melt Tapes—Tape blends in with Kraft-colored boxes, mailers, and tubes.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Series	Brand	Item No.	Pkg. Qty.
Clear Machine Length Hot Melt Tapes							
Light-Duty, for Packages up to 20 lb.							
1.8 mil	2" x 1,000-yd	48 mm x 914 m	32 oz/in	7100	Ipg	**23M239**	6
	2" x 1,000-yd	48 mm x 914 m	39 oz/in	—	—	**31HJ34**	6
	2" x 1,000-yd	48 mm x 914 m	40 oz/in	371	Scotch	**19N729**	6
	2" x 1,640-yd	48 mm x 1,500 m	40 oz/in	371	Scotch	**16L025**	6
	3" x 1,640-yd	72 mm x 1,500 m	40 oz/in	371	Scotch	**2DEB6**	4
Standard-Duty, for Packages from 21 to 45 lb.							
2.2 mil	3" x 914 m	72 mm x 914 m	45 oz/in	372	Scotch	**19N728**	4
2.5 mil	2" x 1,000-yd	48 mm x 914 m	50 oz/in	373	Scotch	**19N734**	6
Heavy-Duty, for Packages from 46 to 90 lb.							
3.1 mil	2" x 1,000-yd	48 mm x 914 m	55 oz/in	375	Scotch	**19N730**	6
	3" x 1,000-yd	72 mm x 914 m	55 oz/in	375	3M	**2DEE4**	4
Tan Machine Length Hot Melt Tapes							
Light-Duty, for Packages up to 20 lb.							
1.8 mil	3" x 1,000-yd	72 mm x 914 m	39 oz/in	—	—	**31HJ39**	4

Bag Sealing Tapes

- ⅜" tape width
- 2.4 mil tape thickness
- UPVC backing material

Tapes are a method of sealing poly bags. The tape is most commonly used with open-ended poly bags.

9LHM5

Tape Color	Tape Length	Tape Adhesive Strength	Brand	Item No.
Blue	180 yd	25 oz/in	—	**8TUF0**
Clear	72 yd	15 oz/in	Tapecase	**15D729**
Fluorescent Orange	72 yd	15 oz/in	Tapecase	**15D730**
Green	72 yd	15 oz/in	Tapecase	**15D731**
Green	180 yd	25 oz/in	—	**8VZF1**
Red	72 yd	15 oz/in	Tapecase	**15D734**
Red	180 yd	25 oz/in	—	**9LHM5**
White	72 yd	15 oz/in	Tapecase	**15D736**
White	180 yd	25 oz/in	—	**9LHK1**
Yellow	72 yd	15 oz/in	Tapecase	**15D737**

Manual Packaging Label Applicators & Dispensers

Applicator
11J895

Label Applicators—Dispense and apply labels to packages or products. They provide consistent label placement in high-volume, repetitive labeling tasks.

Label Dispensers—Peel away the label from its backing as the label is dispensed. They are used in small- to medium-volume labeling tasks.

Dispenser
11J933

Label Applicator Type	Overall Height	Overall Length	For Max. Roll Dia.	For Max. Label Width	Label Dispenser Style	Brand	Mfr. Model	Item No.
Label Applicators								
Counter								
Bottle-Label-Applicator	1015⁄16"	22½"	12"	6½"	Single-Tier	Start Int.	LAB01	**11J892**
Handheld								
General-Label-Applicator	4½"	11⅛"	3 15⁄16"	2⅜"	Handheld	Start Int.	LAP65-60	**11J895**
General-Label-Applicator	4½"	11⅛"	3 15⁄16"	3 27⁄32"	Handheld	Start Int.	LAP65-100	**11J893**

Holds Number of Rolls	Overall Height	Overall Length	For Max. Roll Dia.	For Max. Label Width	Label Dispenser Style	Brand	Mfr. Model	Item No.
Label Dispensers								
Mounted								
8	23½"	20¼"	6"	19"	Two Tier	Labelmaster	LDM2050F	**35ZL37**
Table-Top								
3	7"	8¾"	6"	6"	Manual	Start Int.	SL9506	**11J931**
5	7"	14⅝"	6"	12"	Manual	Start Int.	SL9512	**11J932**
7	7"	20¾"	6"	18"	Manual	Start Int.	SL9518	**11J933**

Standard Packaging Benchtop Tape Machines

Tape Machine
11J978

Carousel Dispenser
20XE12

- For 3" dia. core

Benchtop tape machines, also known as box sealers, apply tape to the top and bottom of cardboard cases. They are compact for use on a tabletop and do not utilize a conveyor. The tape size needed is preselected by the user. These machines are most commonly used for sealing regular slotted containers (RSC).

For Maximum Tape Width	For Maximum Tape Roll Diameter	Includes	Mfr. Model	Item No.
Tape Machines				
For Filament, Masking, Packing, Polypropylene				
1"	5⅜"	Power Adapter	ZCM0800-WT	**11J976**
1"	7"	Silicone Oil	ZCM1000B	**11J979**
2"	7"	3-in-1 Core Holder	ZCM2200B	**11K002**
2"	7"	3-in-1 core holder, Safety Guard, Silicone Oil	ZCM1000NM	**11J984**
2"	7"	Electric Tape Dispenser (zcM1100), Product Manual, Safety Guard, Silicone Oil	ZCM1100	**11J988**
2"	7"	Silicone Oil	ZCM1000	**11J978**
2"	9"	Silicone Oil	TDA080-LR	**11J954**
3⅛"	9"	Silicone Oil	TDA080	**11J951**
For Glass Cloth Tape				
2"	7"	Silicone Oil	ZCM1000C	**11J980**
Tape Carousel Dispenser				
For Polyimide Tape				
1"	5⅞"	Universal Core	TDA025B	**20XE12**

Material	For Maximum Tape Roll Diameter	Mfr. Model	Item No.
External Tape Dispenser Stand			
Plastic, Steel	20"	TDSTAND03	**11J970**

Bag Sealing Tape Dispensers

11J928

- For 3" core dia.

Dispensers mount to a countertop, bench, or workstation. The dispenser is used to place tape around the bundled end of a bag. It automatically measures and cuts tape when the bag is inserted. The seal eliminates the need for twist tying.

For Tape Width	Material	H	W	L	Mfr. Model	Item No.
⅜"	Metal	6"	2⅞"	8¼"	SL7605K	**11J928**
⅜"	Stainless-Steel	6"	2⅞"	8¼"	SL7606	**11J929**
¾"	Metal	8¼"	⅜"	10"	SL7808K	**11J930**

Electric Packaging Label Dispensers

Dispenser
11J909

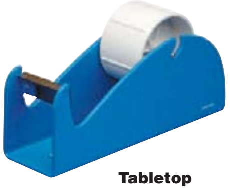
Label Dispensers—Automatically dispense packaging labels and peel away the label from its backing as the label is dispensed for efficient package labeling. They keep the labels organized and ready for use when labeling packages and shipping containers.

Label Rewinders—Automatically rewind liner scrap and remove paper, vinyl, and polyester from liner. They unwind and rewind labels for proper orientation. They roll labels onto a roll core as they are dispensed from a thermal transfer printer or reel.

Rewinder
11J922

Overall Length	Overall Depth	Overall Height	For Max. Label Width	For Max. Roll Dia.	Voltage	Mfr. Model	Item No.
Label Dispensers							
10 13⁄16"	10 51⁄64"	14½"	4¾"	12"	110/115V AC, 2.5A 60Hz	LD6050	**11J909**
10 13⁄16"	13 39⁄64"	14½"	7"	12"	110/115V AC, 2.5A 60Hz	LDX6050	**11J911**
14 13⁄32"	11 57⁄64"	10 13⁄32"	5"	12"	110/115V AC, 2.5A 60Hz	LD8050	**11J910**
14 13⁄32"	14 29⁄32"	10 13⁄32"	8"	12"	110/115V AC, 2.5A 60Hz	LDX8050	**11J912**
Label Rewinders							
7"	6 7⁄64"	10 23⁄32"	2¼"	7½"	12V DC w/Universal Transformer	LD3000	**39UL42**
11"	—	10¼"	4½"	9"-(251mm)	120V AC	LR4500	**11J922**

Pistol Handle 40TU25 (tape not included)



Tabletop 4HY25

Standard Packaging Tape Dispensers

Handheld—Tape dispensers hold a roll of self-adhesive packaging tape and have a handle for applying the desired length of tape to packages. **3EGL7 and 3EGL8** feature an innovative taperoll loading that enables "Low Noise." **Ribbed Handle** items feature an adjustable brake that controls tape unwind and eliminates wrinkling.

Tabletop—Tape dispensers sit on top of countertops, benches, and packaging tables. The desired length of tape is pulled through the cutting blade and applied to a shipping package or container. **4HY25—**Has a coated steel frame, replaceable serrated blade, and rubber bottom to prevent slipping. 2 mounting holes for securing to work surface. **3FKN8—**Features a weighted design for stability on flat work surfaces. **52JH82—**Features a non-skid base.

Dispenser Strength Rating	For Maximum Tape Width	For Tape Core Diameter	For Maximum Tape Roll Diameter	Color	Brand	Item No.
Handheld Packaging Tape Dispensers						
Pistol Handle						
Light	2"	2"	5⅛"	Gray, Red	—	**52WX72**
Light	2"	3"	5¼"	Blue, White	—	**3JXW7**
Light	2"	3"	5½"	Blue	Shurtape	**40TU25**
Light	3"	3"	5½"	Gray	—	**52WX73**
Heavy	1"	3"	5½"	Black	3M	**2A671**
Heavy	2"	3"	5⅛"	Gray	Scotch	**3EGL3**
Heavy	2"	3"	5⅛"	Gray, Tan	Scotch	**3EGL2**
Heavy	2"	3"	5⅛"	Red	Scotch	**29WR63**
Heavy	2"	3"	5⅛"	Tan	Scotch	**3EGL7**
Heavy	3"	3"	5⅛"	Tan	Scotch	**3EGL8**
Heavy	3"	3"	6¼"	Gray	Shurtape	**40TU27**
Ribbed Handle						
Heavy	2"	3"	4¾"	Gray	Scotch	**3FKN6**
Heavy	2"	3"	4¾"	Gray	Scotch	**3KT68**

For Maximum Tape Width	For Tape Core Diameter	For Maximum Tape Roll Diameter	Color	Brand	Item No.
Tabletop Packaging Tape Dispensers					
1"	3"	11"	Blue	3M	**3EGL4**
2"	3"	5½"	Blue	Marsh	**4HY25**
2"	3"	6"	Blue	Start International	**11J925**
2"	3"	6⅞"	Tan	Scotch	**3FKN8**
2"	3"	11"	Gray	3M	**3EGL5**
3"	3"	5½"	Blue	Marsh	**52JH82**
3"	3"	6"	Blue	Start International	**11J926**
3"	3"	7½"	Gray	Better Pack	**1UXP9**
4"	3"	6"	Blue	Start International	**11J927**

Standard Tamper-Evident Tapes

Used with a hand tape dispenser, tape is designed to stop the theft of valuable goods. Once the tape strip is opened or removed, a hidden message alerts the user that contents may have been tampered with.

Security Tape. If Word "Opened" Appears, Check Contents. 38UZ38

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Color	Tape Tensile Strength	Brand	Item No.	Pkg. Qty.
Check Seal Before Accepting, Min. Temp.: 40°F, Max. Temp.: 80°F							
1.9 mil	2 in x 110 yd	48 mm x 100 mm	Clear	22 lb-in	Scotch	**24A756**	1
If Seal Has Been Broken, Check Contents, Min. Temp.: -20°F, Max. Temp.: 150°F							
2.5 mil	2 in x 110 yd	48 mm x 100 m	Blue	33 lb-in	—	**49Z409**	36
Sealed For Your Protection, Min. Temp.: -20°F, Max. Temp.: 150°F							
1.9 mil	2 in x 55 yd	50.8 mm x 50.29 m	White	26 lb-in	Tapecase	**15C760**	1
Secure T.R.A.C., Min. Temp.: -65°F, Max. Temp.: 180°F							
2 mil	1 in x 60 yd	2.54 cm x 55m	Red	Not Rated	Novavision Inc	**16G849**	1
2 mil	1 in x 60 yd	5.08 cm x 55m	Red	Not Rated	Novavision Inc	**16G846**	1
2 mil	1 in x 60 yd	5.08 cm x 55m	Blue	Not Rated	Novavision Inc	**16G847**	1
2 mil	1 in x 60 yd	5.08 cm x 55m	Green	Not Rated	Novavision Inc	**16G848**	1
Security, Min. Temp.: -20°F, Max. Temp.: 150°F							
1.9 mil	2 in x 55 yd	50.8 mm x 50.29 m	Blue	26 lb-in	Tapecase	**15C745**	1
2.5 mil	2 in x 110 yd	48 mm x 100 m	Black	33 lb-in	—	**49Z407**	36
Security Tape. If Word "Opened" Appears, Check Contents., Min. Temp.: -40°F, Max. Temp.: 200°F							
2 mil	2 in x 60 yd	0.051 m x 54.9 m	Red	20 lb-in	Novavision Inc	**38UZ38**	1
Stretch Wrap Secure, Min. Temp.: -40°F, Max. Temp.: 200°F							
2 mil	1 in x 55 yd	0.025 m x 76.2 m	Red	20 lb-in	Novavision Inc	**38UZ37**	1
Tamper Evident Tape, Min. Temp.: -20°F, Max. Temp.: 150°F							
2.5 mil	2 in x 110 yd	48 mm x 100 m	Red	33 lb-in	—	**49Z405**	36

Standard Duty Packaging Tape & Dispenser Combo Packs

493V55

3W660

- Clear color

Packaging tape and dispenser packs include combinations of tape rolls and dispensers, eliminating the need to purchase a dispenser separately.

Tape Thickness	Imperial Tape WxL	Metric Tape WxL	Tape Adhesive Strength	Brand	Item No.	Pkg. Qty.
1.9 mil	1.88 in x 22 yd	48 mm x 20 m	45 oz/in	Ability One	**493V55**	1
3.1 mil	2 in x 55 yd	38 mm x 50 m	55 oz/in	Scotch	**3W660**	1
3.1 mil	2 in x 55 yd	38 mm x 50 m	55 oz/in	Scotch	**3W661**	4

Light-Duty 23M279

Standard-Duty 23M272

Heavy-Duty 29WT05

Strapping Tapes

Strapping tape is fiberglass-reinforced and has high tensile strength and good tear resistance. It is moisture- and solvent-resistant and will not delaminate, split, or crack. It's commonly used on pallets and features a polypropylene tape backing material.

Light-Duty—Used for light-duty applications such as strapping tubes together.

Standard-Duty—An economical alternative to plastic or metal strapping for strapping heavy boxes together.

Heavy-Duty—Strongest option for palletizing, bundling, and sealing cartons for heavy items such as metal pipes.

Tape WxL	Tape Thickness	Tape Tensile Strength	Min. Tape Performance Temp.	Max. Tape Performance Temp.	Tape Color	Brand	Item No.	Pkg. Qty.
Light-Duty, for Packages up to 20 lb.								
0.25" x 180-ft	4 mil	100 lb/in	40 °F	80 °F	Clear	3M	**2DED1**	96
0.5" x 180-ft	4 mil	110 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M278**	72
0.5" x 180-ft	4.5 mil	100 lb/in	-10 °F	150 °F	White	—	**494K12**	72
0.75" x 180-ft	4 mil	100 lb/in	40 °F	80 °F	Clear	3M	**3YTY7**	48
0.75" x 180-ft	4.5 mil	100 lb/in	-10 °F	150 °F	White	—	**494K13**	48
1" x 180-ft	4 mil	110 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M270**	36
1" x 180-ft	4.5 mil	100 lb/in	-10 °F	150 °F	White	—	**494K14**	36
2" x 180-ft	4 mil	100 lb/in	40 °F	80 °F	Clear	3M	**15R520**	1
2" x 180-ft	4.5 mil	100 lb/in	-10 °F	150 °F	White	—	**494K16**	24
3" x 180-ft	4 mil	100 lb/in	40 °F	80 °F	Clear	3M	**54EN20**	12
3" x 180-ft	4 mil	110 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M279**	16
Standard-Duty, for Packages from 21 to 45 lb.								
0.75" x 180-ft	4.4 mil	175 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M272**	48
2" x 180-ft	4.4 mil	175 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M274**	24
Heavy-Duty, for Packages from 46 to 90 lb.								
0.5" x 180-ft	8 mil	600 lb/in	30 °F	Not Rated	Black	Scotch	**29WT11**	72
0.5" x 180-ft	8 mil	600 lb/in	30 °F	Not Rated	Clear	Scotch	**29WT12**	72
0.75" x 180-ft	6.2 mil	350 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M275**	48
0.75" x 180-ft	7.7 mil	270 lb/in	30 °F	Not Rated	Clear	Scotch	**29WT05**	48
1" x 180-ft	6.2 mil	350 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M276**	36
1" x 180-ft	7.7 mil	270 lb/in	30 °F	Not Rated	Clear	Scotch	**29WT06**	36
2" x 180-ft	6.2 mil	350 lb/in	Not Rated	Not Rated	Clear	Ipg	**23M277**	24
2" x 180-ft	7.7 mil	270 lb/in	30 °F	Not Rated	Clear	Scotch	**29WT07**	24

Strapping Tape Dispensers

- For 3" dia. tape core

Plastic dispensers prevent tape from sticking to itself or to the user's fingers.

For Maximum Tape Width	For Maximum Tape Roll Diameter	Item No.
¾"	5½"	**24A813**
1"	5½"	**29WR66**
1"	6½"	**29WR65**

29WR66 (tape not included)

CENTRAL brand

Water-Activated Kraft Tapes

Kraft

White

Water-activated Kraft tape, also known as reinforced tape, is run through a tape machine that applies water, activating the glue on the tape. It is made of reinforced fiberglass strings that are difficult to tear apart. A box cutter or utility knife is required to cut the tape.

Imperial Tape WxL	Metric Tape WxL	Tape Thickness	Tape Tensile Strength	Tape Roll Diameter	Tape Color	Item No.	Pkg. Qty.
Light-Duty, for Securing Packages up to 40 lb.							
2½" x 600-ft	63.5 mm x 182.9 m	6.1 mil	45 lb/in	2½"	Kraft	**23M281**	12
2¾" x 450-ft	70 mm x 137 m	5.5 mil	66 lb/in	2¾"	Kraft	**23M290**	10
2¾" x 450-ft	72 mm x 121.9 m	5.8 mil	70 lb/in	2¾"	White	**23M297**	10
2¾" x 450-ft	72 mm x 137.2 m	5.8 mil	70 lb/in	2¾"	Kraft	**23M284**	10
2¾" x 450-ft	72 mm x 137.2 m	6.3 mil	74 lb/in	2¾"	Kraft	**23M291**	10
3" x 375-ft	76.2 mm x 137.2 m	6.4 mil	74 lb/in	3"	Kraft	**23M285**	8
3" x 450-ft	76.2 mm x 137.2 m	6.4 mil	74 lb/in	3"	Kraft	**23M294**	10
Standard-Duty, for Securing Packages up to 60 lb.							
3" x 375-ft	76.2 mm x 114.3 m	6.5 mil	80 lb/in	3"	Kraft	**23M292**	8
3" x 450-ft	76.2 mm x 137.2 m	6.5 mil	80 lb/in	3"	Kraft	**23M293**	10
3" x 450-ft	76.2 mm x 137.2 m	7 mil	83 lb/in	3"	White	**23M288**	10
3" x 375-ft	76.2 mm x 114.3 m	7 mil	83 lb/in	3"	Kraft	**23M295**	8
3" x 450-ft	76.2 mm x 137.2 m	7 mil	83 lb/in	3"	Kraft	**23M296**	10
Heavy-Duty, for Securing Packages up to 100 lb.							
3" x 400-ft	76.2 mm x 121.9 m	10.5 mil	92 lb/in	3"	Kraft	**23M286**	10

3TJJ2

1UXP7

1UXP8

6CA10

BETTER PACKAGES, Inc. MARSH Marsh Shipping Supply Co., LLC

Water-Activated Manual Kraft Tape Machines

Machines automatically apply water to Kraft tape, activating the tape's glue. They include a dial for manual selection of tape length and a lever for dispensing the tape. Commonly used for low-volume Kraft tape applications.

For Maximum Tape Width	For Maximum Tape Roll Diameter	Tape Dispensing Length	Machine LxWxH	Water Bottle Capacity	Color	Material	Includes Heater	Brand	Mfr. Model	Item No.
1½"	5"	4" to 8"	14" x 5" x 7"	—	White	Plastic	No	Better Pack	TS404	**3TJJ2**
3"	7½"	4" to 30"	19½ x 9½ x 12½"	44 fl oz	Gray	Steel	No	Better Pack	BP333Plus	**1UXP7**
	7½"	4" to 30"	19½ x 9½ x 12½"	44 fl oz	Gray	Steel	Yes	Better Pack	BP333PLWHT	**1UXP8**
	9"	5" to 72"	18⅞ x 10½ x 13¾"	70 fl oz	Black	Metal, Plastic	No	Marsh	TDH	**6CA10**
	9"	5" to 72"	18⅞ x 10½ x 13¾"	70 fl oz	Black	Metal, Plastic	Yes	Marsh	TDH110	**6CA11**

3TJH9

6BY99

1UXP4

1UXP5

3TJJ1

BETTER PACKAGES, Inc. MARSH Marsh Shipping Supply Co., LLC

Water-Activated Electric Kraft Tape Machines

Machines automatically apply water to Kraft tape, activating the tape's glue. They require the push of a button to select the desired tape length. No dials or levers are necessary. This method requires less strain for the user than a manual Kraft tape machine.

For Maximum Tape Width	For Maximum Tape Roll Diameter	Tape Dispensing Length	Machine LxWxH	Programmable Dispensing Patterns	Voltage	Water Bottle Capacity	Color	Material	Brand	Mfr. Model	Item No.
3"	7½"	6" to 45"	18 x 12 x 10½"	No	115V AC	44 fl oz	Gray	ABS Plastic, Steel	Better Pack	BP500	**3TJH9**
	9"	5" to 90"	19 x 10 x 12"	No	110V AC	70 fl oz	Black	Metal, Plastic	Marsh	TDE110	**6BY99**
	10"	6" to 45"	20 x 12½ x 12"	No	115V AC	64 fl oz	Gray	ABS Plastic, Cold Rolled Steel, Zinc Plating	Better Pack	BP555es	**1UXP4**
	10"	6" to 45"	20 x 12½ x 12"	Yes	115V AC	64 fl oz	Gray	ABS Plastic, Cold Rolled Steel, Zinc Plating	Better Pack	BP555eSA	**1UXP5**
4"	7½"	6" to 45"	21 x 10½ x 9½"	No	115V AC	64 fl oz	Gray	ABS Plastic, Cold Rolled Steel	Better Pack	BP755eS	**3TJJ1**

BENCHPRO™

Pro-Line

Laminate-Top
33RJ73

Particle Board-Top
33VC38

Solid Maple-Top
33RJ70

Packaging Tables

- Min. tabletop height: 30"
- Max. tabletop height: 36"

Packaging tables are used by employees in warehouses as a workspace for wrapping and taping boxes, mailers, and tubes for shipment.

Laminate-Top—Tables resist scratches and stains. Laminate is lightweight, nonconductive, and can be cleaned easily in the event of a spill.

Particle Board-Top—Used for light- and medium-weight packaging applications. They resist denting and distortion and are easy to clean.

Solid Maple-Top—These tops are more durable than particle board tops and are used for high-volume medium- and heavy-weight applications.

Cardboard Storage Stand—Optional stand keeps boxes clean and off the floor. Compatible with PRO-LINE benches.

Overall LxWxH	Weight Cap.	Tabletop Finish	Color	Brand	Item No.
Laminate-Top					
30" x 60"	1,200 lb	HPP Laminate Coating	Gray	BenchPro	**33RJ67**
x 86"	5,000 lb	HPP Laminate Coating	Blue	BenchPro	**33RJ73**
30" x 72"	1,200 lb	HPP Laminate Coating	Gray	BenchPro	**33RJ68**
x 86"	5,000 lb	HPP Laminate Coating	Blue	BenchPro	**33RJ74**
36" x 72"	1,200 lb	HPP Laminate Coating	Gray	BenchPro	**33RJ69**
x 86"	5,000 lb	HPP Laminate Coating	Blue	BenchPro	**33RJ75**
60" x 34"	750 lb	ESD Laminate	Gray	Pro-Line	**33VC40**
x 84"	750 lb	Plastic Laminate	Gray	Pro-Line	**33VC39**
60" x 34"	750 lb	ESD Laminate	Gray	Pro-Line	**4CXX2**
x 90"	750 lb	Plastic Laminate	Gray	Pro-Line	**4CXW9**
72" x 34"	750 lb	ESD Laminate	Gray	Pro-Line	**33VC44**
x 84"	750 lb	Plastic Laminate	Gray	Pro-Line	**33VC43**
72" x 34"	750 lb	ESD Laminate	Gray	Pro-Line	**4CXX8**
x 90"	750 lb	Plastic Laminate	Gray	Pro-Line	**4CXX6**
Particle Board-Top					
60" x 34" x 84"	750 lb	Unfinished	Gray	Pro-Line	**33VC38**
72" x 34" x 84"	750 lb	Unfinished	Gray	Pro-Line	**33VC42**
Solid Maple-Top					
30" x 60"	1,200 lb	Oil Coated Finish	Gray	BenchPro	**33RJ70**
x 86"	5,000 lb	Oil Coated Finish	Blue	BenchPro	**33RJ76**
30" x 72"	1,200 lb	Oil Coated Finish	Gray	BenchPro	**33RJ71**
x 86"	5,000 lb	Oil Coated Finish	Blue	BenchPro	**33RJ77**
36" x 72"	1,200 lb	Oil Coated Finish	Gray	BenchPro	**33RJ72**
x 86"	5,000 lb	Oil Coated Finish	Blue	BenchPro	**33RJ78**
60" x 34" x 84"	750 lb	Polyurethane Maple	Gray	Pro-Line	**33VC41**
60" x 34" x 90"	750 lb	Polyurethane Maple	Gray	Pro-Line	**4CXX4**
72" x 34" x 84"	750 lb	Polyurethane Maple	Gray	Pro-Line	**33VC45**
72" x 34" x 90"	750 lb	Polyurethane Maple	Gray	Pro-Line	**4CXY1**

No. of Dividers	L	W	H	Color	Brand	Item No.
Cardboard Storage Stand						
5	36 in	24 in	26 ½ in	Gray	Pro-Line	**33VC37**

BETTER PACKAGES, Inc.

Kraft Tape Machine Accessories

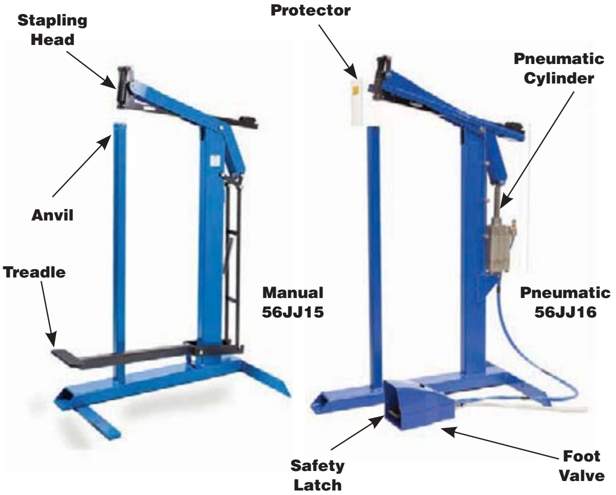
Better Pack tape machine accessories help repair, maintain, or extend the life of packaging tape machines.

W	H	Cap.	Mfr. Model	Item No.
Water Brush				
½"	2¼"	—	P11	**1UXR6**
1½"	2¾"	—	E55513201	**1UXR2**
2½"	1¾"	—	0128980	**3TJJ5**
2⅞"	3¾"	—	E107x	**3TJJ4**
Brush Set				
1"	2¾"	—	PW107AK	**1UXR4**
2¾"	4½"	—	TS37K	**3TJJ7**
Water Bottle				
1½"	6½"	44 fl oz	FF6100	**1UXR5**
4"	17"	64 fl oz	5UN0430	**3TJJ6**
5¼"	15¼"	44 fl oz	FF6100	**3TJJ3**
Tape Dispenser Aerial				
5"	3⅓"	—	TA 2000	**1UXP6**

1UXR2

3TJJ3

1UXP6



JOSEF KIHLBERG

Foot-Operated Bottom Carton Staplers

Foot-operated bottom carton staplers have a built-in stand. A box is placed into the stand and the foot-operated stapler seals the bottom of the box. These staplers are commonly used in high-volume packaging applications.

Manual Foot-Operated—Staplers operate when pressure is applied using a foot pedal to activate the stapler arm, sealing the carton with each step.

Pneumatic Foot-Operated—Staplers operate when pressure is applied using a foot petal, engaging an air hose, applying air pressure to seal the staple.

For Crown Style	Compatible Staples	For Staple Leg Length	Staple Cap.	For Box Wall Type	Mfr. Model	Item No.
Manual Foot-Operated Bottom Staplers						
C	C 1 ¼" x ⅗" to 9/10"	⅝", ¾", ⅞"	300	Single/Double Wall	F561	**56JJ17**
	C 1 ¼" x ⅝" to ⅞"	⅝", ¾", ⅞"	300	Single/Double Wall	B561	**56JJ15**
Pneumatic Foot-Operated Bottom Staplers						
C	JK561, C, 32	¾", ⅝", ⅞"	300	Single/Double Wall	B561PN	**56JJ16**

JOSEF KIHLBERG

Manual Hand-Operated Carton Stapler

Stapler requires a lever to be pressed in order to seal the staple. Commonly used for stapling in low-volume applications.

For Crown Style	Compatible Staples	For Staple Leg Length	Staple Cap.	Weight	For Box Wall Type	Mfr. Model	Item No.
C	C 1 ¼" x ⅝" to ¾"	⅝", ¾"	150	3.5 lb	Single/ Double Wall	C561M	**56JJ20**

JOSEF KIHLBERG

Battery-Operated Carton Stapler

This stapler causes less strain than manual-operated staplers. It can be taken anywhere in a facility and used for high-volume applications without the need for a pneumatic air hose.

For Crown Style	Compatible Staples	For Staple Leg Length	Staple Cap.	Weight	For Box Wall Type	Mfr. Model	Item No.
C	JK561, C, 32	⅝", ¾"	150	6.0 lb	Single/Double Wall	C561B	**56JJ22**

JOSEF KIHLBERG

Pneumatic Hand-Operated Carton Staplers

Staplers use button-operated air pressure to seal staples. They use an air hose and compressor and are commonly used for stapling in high-volume applications.

For Crown Style	Compatible Staples	For Staple Leg Length	Staple Cap.	Weight	For Box Wall Type	Mfr. Model	Item No.
Pneumatic Stick Staplers							
A	JK560, A, 35	⅞"	150	4 lb	Double Wall	A560PN22	**56JJ26**
C	JK561, C, 32	¾", ⅝"	150	4 lb	Double Wall, Single Wall	C561PN	**56JJ21**
	JK561, C, 32	⅝"	150	5.5 lb	Double Wall, Single Wall	561-15PN	**56JJ18**
	JK561, C, 32	¾"	150	5.5 lb	Double Wall, Single Wall	561-18PN	**56JJ19**
Wide	JK590	¾" to 1 ¼"	100	5.3 lb	Double Wall, Single Wall, Triple Wall	JK35-590	**56JJ31**
	JK590	¾" to 1 ¼"	100	6 lb	Double Wall, Single Wall, Triple Wall	JK35T590	**56JJ30**
Pneumatic Roll Feed Staplers							
Wide	JK555	¾", ⅝"	150	4 lb	Double Wall, Single Wall, Triple Wall	R555PN	**56JJ35**

JOSEF KIHLBERG

Wide-Crown Pneumatic Plier Staplers

Staplers are used to staple large applications such as furniture packaging or to connect edge protectors. These staplers have sideways movement capability.

56JJ39

Compatible Staples	For Staple Leg Length	Staple Cap.	Weight	Mfr. Model	Item No.
JK777	⅜" to ⅝"	100	5.1 lb	JK20T777L	**56JJ46**
JK779	5/16" to ⅝"	84	4.2 lb	JK20T779	**56JJ37**
	5/16" to ⅝"	168	5.1 lb	JK20T779L	**56JJ38**
	½" to ⅞"	168	5.1 lb	JK20T779L22	**56JJ39**

Carton Staples

Staples are used with Kihlberg carton staplers to seal packages for shipping or storage. Staple sticks are commonly used for medium-volume applications and staple rolls are commonly used for higher volume applications.

Crown Style	Crown Width	Leg Length	Staples per Stick	Material	Item No.	Pkg. Qty.
Carton Staple Sticks						
A	½"	5/16"	84	Galv. Steel	**56JJ40**	100000
		⅜"	50	Galv. Steel	**56JJ47**	67200
		⅜"	84	Galv. Steel	**56JJ41**	100000
		½"	50	Galv. Steel	**56JJ48**	57600
		½"	84	Galv. Steel	**56JJ42**	100000
		9/16"	84	Galv. Steel	**56JJ43**	80000
		⅝"	50	Galv. Steel	**56JJ49**	48000
		⅝"	84	Galv. Steel	**56JJ44**	80000
		⅞"	84	Galv. Steel	**56JJ45**	80000
A,35,560	1⅜"	⅝"	50	Copper	**56JJ27**	20000
		¾"	50	Copper	**56JJ28**	20000
		⅞"	50	Copper	**56JJ29**	20000
C,32,561	1¼"	⅝"	50	Copper	**56JJ23**	25000
		¾"	50	Copper	**56JJ24**	25000
		⅞"	50	Copper	**56JJ25**	20000
Wide Crown	1"	⅝"	50	Copper	**56JJ32**	22400
		1"	50	Copper	**56JJ33**	22400
		1¼"	50	Copper	**56JJ34**	22400
Carton Staple Roll						
A	1¼"	⅝"	1,000	Copper	**56JJ36**	20000

Jaw Material	Handle Material	L	W	H	Item No.
Staple Remover					
Steel	Aluminum	5 ½ in	¾ in	5 in	**4PMD6**

56JJ23

56JJ36

4PMD6

For more boxes, see Grainger.com.

UPS Guidelines	Fiber Box Handbook	Box Type
30-lb.	65-lb.	32 ECT Single Wall
40-lb.	65-lb.	200# Single Wall
50-lb.	95-lb.	44 ECT Single Wall
60-lb.	100-lb.	48 ECT Double Wall
80-lb.	120-lb.	51 ECT Double Wall
—	160-lb.	71 ECT Double Wall
—	280-lb.	90 ECT Triple Wall

What strength do you need?

Using the chart (at left), find the weight of your shipment to see the box strength that you'll need to support it. You may need to follow a particular set of guidelines depending on your carrier. Both the UPS and Fiber Box Handbook recommendations are represented in the chart.

There are two tests of box strength to consider:

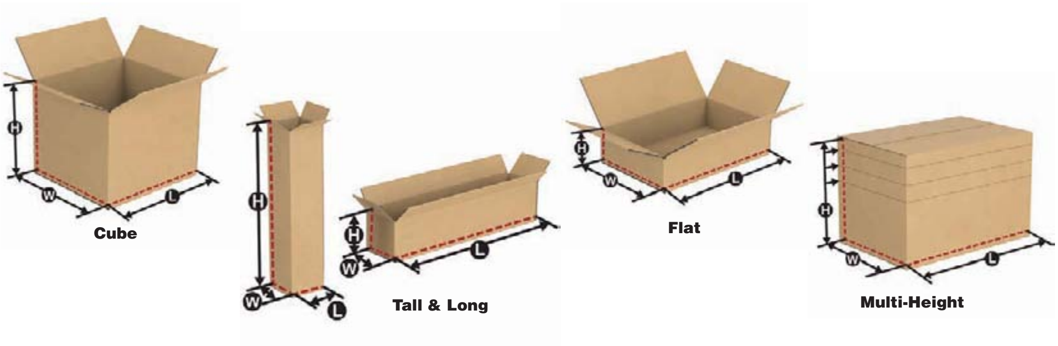
ECT (Edge Crush Test) measures the stacking strength of the box. The greater the number, the greater the amount of force required to crush the box during stacking.

200# is a rating given to boxes that have received The Mullen Test for bursting strength. These boxes provide greater overall stacking strength than ECT boxes.

Single Wall, also known as double face boxes, have walls constructed of a corrugated medium glued between two sheets of linerboard.

Double Wall boxes can be used to ship rough-edged items. The walls are constructed of two corrugated mediums glued between three sheets of linerboard.

Triple Wall boxes can be used to ship heavy, sharp-edged metal parts. They have walls constructed of three corrugated mediums glued between four sheets of linerboard.



Standard Shipping Boxes

Boxes are made of corrugated cardboard for storing and shipping products. For additional box sizes, see Grainger.com.

Multi-Height Boxes— Create multiple heights out of one box.

Inside L x W x H	Box Description	Wall Type	Item No.
4" to 8" Length			
4 x 4 x 4"	32 ECT - Cube	Single Wall	**11K579**
4 x 4 x 6"	32 ECT	Single Wall	**11K580**
4 x 4 x 48"	32 ECT - Tall	Single Wall	**11R274**
5 x 5 x 5"	32 ECT - Cube	Single Wall	**11K583**
6 x 4 x 4"	32 ECT	Single Wall	**11K584**
6 x 6 x 4"	32 ECT	Single Wall	**11K587**
6 x 6 x 6-4"	32 ECT - Multi-Height	Single Wall	**3AFT1**
6 x 6 x 6"	32 ECT - Cube	Single Wall	**11K589**
6 x 6 x 6"	32 ECT - Cube, White	Single Wall	**22XL93**
6 x 6 x 6"	48 ECT - Cube, Heavy Duty	Double Wall	**55VM15**
6 x 6 x 12"	32 ECT - Tall	Single Wall	**11R283**
6 x 6 x 36"	32 ECT - Tall	Single Wall	**11R287**
6 x 6 x 48"	32 ECT - Tall	Single Wall	**11R290**
7 x 7 x 7"	32 ECT - Cube	Single Wall	**11K598**
7 x 7 x 12"	32 ECT - Tall	Single Wall	**11R294**
8 x 4 x 4"	32 ECT - Long	Single Wall	**11K601**
8 x 6 x 4"	32 ECT	Single Wall	**11K604**
8 x 6 x 6"	32 ECT	Single Wall	**11K606**
8 x 8 x 4"	32 ECT - Flat	Single Wall	**11K609**
8 x 8 x 8-4"	32 ECT - Multi-Height	Single Wall	**55VG30**
8 x 8 x 5"	32 ECT	Single Wall	**11K610**
8 x 8 x 6"	32 ECT	Single Wall	**11K611**
8 x 8 x 8"	32 ECT - Cube	Single Wall	**11K613**
8 x 8 x 8"	32 ECT - Cube, White	Single Wall	**22XL95**
8 x 8 x 8"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM91**
8 x 8 x 8"	48 ECT - Cube, Heavy Duty	Single Wall	**22XL96**
8½ x -8-1/2 x 12-8"	32 ECT - Multi-Height	Single Wall	**49K015**
9" to 11" Length			
9 x 6 x 4"	32 ECT	Single Wall	**11K616**
9 x 8 x 6"	32 ECT	Single Wall	**11K624**
9 x 8 x 8"	32 ECT	Single Wall	**22XK23**
9 x 9 x 4"	32 ECT	Single Wall	**11K625**
9 x 9 x 9"	32 ECT - Cube	Single Wall	**11K630**
10 x 6 x 4"	32 ECT	Single Wall	**11K632**
10 x 6 x 6"	32 ECT - Long	Single Wall	**11K634**
10 x 7 x 4"	32 ECT	Single Wall	**11K635**
10 x 8 x 4"	32 ECT	Single Wall	**11R184**
10 x 8 x 5"	32 ECT	Single Wall	**11R185**
10 x 8 x 6"	32 ECT	Single Wall	**11R186**
10 x 8 x 8"	32 ECT	Single Wall	**11R188**
10 x 9 x 6"	32 ECT	Single Wall	**11R189**
10 x 10 x 4"	32 ECT	Single Wall	**11R311**
10 x 10 x 6"	32 ECT	Single Wall	**11R313**
10 x 10 x 10"	32 ECT - Cube	Single Wall	**11A675**
10 x 10 x 10"	44 ECT - Cube, Heavy Duty	Single Wall	**22XL97**
10 x 10 x 10"	48 ECT - Cube, Heavy Duty	Double Wall	**22XL98**
10 x 10 x 10"	200# - Cube	Single Wall	**55NM31**
10 x 10 x 15"	32 ECT	Single Wall	**11A677**
10 x 10 x 24"	32 ECT - Tall	Single Wall	**11A679**
10 x 10 x 48"	32 ECT - Tall	Single Wall	**11A683**
11 x 8 x 4"	32 ECT - Printer	Single Wall	**11R193**
11 x 8 x 6"	32 ECT - Printer	Single Wall	**11R194**
11 x 9 x 6"	32 ECT	Single Wall	**22XK31**
11 x 11 x 11"	32 ECT - Cube	Single Wall	**11A684**
11 x 11 x 11"	200# - Cube	Single Wall	**55NM32**
11¼ x 8¾ x 12-8"	200# - Multi-Height	Single Wall	**55NM34**
11¼ x 8¾ x 12"	200#	Single Wall	**55NM33**
12" to 13" Length			
12 x 6 x 4"	32 ECT - Long	Single Wall	**11R198**
12 x 6 x 6"	32 ECT - Long	Single Wall	**11R201**
12 x 8 x 4"	32 ECT - Flat	Single Wall	**11R204**
12 x 8 x 5"	32 ECT	Single Wall	**11R205**
12 x 8 x 6"	32 ECT	Single Wall	**11R206**
12 x 8 x 8"	32 ECT	Single Wall	**11R208**
12 x 8 x 8"	200#	Single Wall	**55NM35**
12 x 9 x 2"	32 ECT - Flat	Single Wall	**55VG76**
12 x 9 x 6-2"	200# - Multi-Height	Single Wall	**55NM36**
12 x 9 x 3"	32 ECT - Flat	Single Wall	**11R209**
12 x 9 x 4"	32 ECT - Flat	Single Wall	**11R210**
12 x 9 x 5"	32 ECT	Single Wall	**11R211**
12 x 9 x 6"	32 ECT	Single Wall	**11R212**
12 x 9 x 7"	32 ECT	Single Wall	**11R213**
12 x 9 x 9"	32 ECT	Single Wall	**11R215**
12 x 9 x 10"	32 ECT	Single Wall	**11R337**
12 x 9 x 12"	32 ECT	Single Wall	**11R338**
12 x 10 x 4"	32 ECT	Single Wall	**11R323**
12 x 10 x 5"	32 ECT	Single Wall	**11R324**
12 x 10 x 6"	32 ECT	Single Wall	**11R325**
12 x 10 x 6"	200#	Single Wall	**55NM38**
12 x 10 x 8"	32 ECT	Single Wall	**11R327**
12 x 10 x 8"	200#	Single Wall	**55NM39**
12 x 10 x 10"	32 ECT	Single Wall	**11A685**
12 x 10 x 10"	200#	Single Wall	**55NM40**
12 x 12 x 4"	32 ECT - Flat	Single Wall	**11R330**
12 x 12 x 8-4"	32 ECT - Multi-Height	Single Wall	**5GMK7**
12 x 12 x 6"	32 ECT - Flat	Single Wall	**11R332**
12 x 12 x 6"	48 ECT - Flat, Heavy Duty	Double Wall	**22XM08**
12 x 12 x 6"	200# - Flat	Single Wall	**55NM41**
12 x 12 x 12-6"	32 ECT - Multi-Height	Single Wall	**3AFT9**
12 x 12 x 12-6"	200# - Multi-Height	Single Wall	**55NM45**
12 x 12 x 8"	32 ECT	Single Wall	**11R334**
12 x 12 x 8"	200#	Single Wall	**55NM42**
12 x 12 x 9"	32 ECT	Single Wall	**11R335**
12 x 12 x 10"	32 ECT	Single Wall	**11A687**
12 x 12 x 10"	200#	Single Wall	**55NM43**
12 x 12 x 18-10"	200# - Multi-Height	Single Wall	**55NM46**
12 x 12 x 12"	32 ECT - Cube	Single Wall	**11A689**
12 x 12 x 12"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM04**
12 x 12 x 12"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM10**
12 x 12 x 12"	200# - Cube	Single Wall	**55NM44**
12 x 12 x 14"	32 ECT	Single Wall	**11A690**
12 x 12 x 15"	32 ECT	Single Wall	**11A691**
12 x 12 x 16"	32 ECT	Single Wall	**11A692**
12 x 12 x 30"	32 ECT - Tall	Single Wall	**493T63**
12 x 12 x 60"	32 ECT - Tall	Single Wall	**11A701**
12 x 12 x 72"	32 ECT - Tall	Single Wall	**11A702**
12¼ x 9¼ x 12-6"	200# - Multi-Height	Single Wall	**55NM47**
12½ x 12½ x 15"	48 ECT - Heavy Duty	Double Wall	**22XM06**
13 x 9 x 6"	32 ECT	Single Wall	**11R217**
13 x 11 x 5"	32 ECT	Single Wall	**11R344**
13 x 13 x 2"	32 ECT	Single Wall	**55VG93**
13 x 13 x 13"	32 ECT - Cube	Single Wall	**11A705**
13 x 13 x 13"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM12**
13 x 13 x 13"	200# - Cube	Single Wall	**55NM48**
14" to 16" Length			
14 x 8 x 4"	32 ECT - Flat	Single Wall	**22XK34**
14 x 10 x 4"	32 ECT - Flat	Single Wall	**11R353**
14 x 10 x 6"	32 ECT	Single Wall	**11R355**
14 x 10 x 6"	200#	Single Wall	**55NM49**
14 x 10 x 8"	32 ECT	Single Wall	**11R356**
14 x 10 x 10"	32 ECT	Single Wall	**11A707**
14 x 10 x 10"	200#	Single Wall	**55NM50**
14 x 10 x 12"	32 ECT	Single Wall	**11A708**
14 x 11 x 11"	32 ECT	Single Wall	**22XK92**
14 x 12 x 6-2"	200# - Multi-Height	Single Wall	**55NM51**
14 x 12 x 8"	32 ECT	Single Wall	**11R363**
14 x 12 x 8"	200#	Single Wall	**55NM52**
14 x 12 x 10"	32 ECT	Single Wall	**11A709**
14 x 12 x 12"	32 ECT	Single Wall	**11A710**
14 x 14 x 6"	32 ECT - Flat	Single Wall	**11R366**
14 x 14 x 6"	200# - Flat	Single Wall	**55NM53**
14 x 14 x 8"	200#	Single Wall	**55NM54**
14 x 14 x 10"	32 ECT	Single Wall	**11A711**
14 x 14 x 10"	200#	Single Wall	**55NM55**
14 x 14 x 12"	32 ECT	Single Wall	**11A712**
14 x 14 x 12"	200#	Single Wall	**55NM56**
14 x 14 x 14"	32 ECT - Cube	Single Wall	**11A713**
14 x 14 x 14"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM15**
14 x 14 x 14"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM16**
14 x 14 x 14"	200# - Cube	Single Wall	**55NM57**
15 x 10 x 4"	32 ECT - Flat	Single Wall	**22XK66**
15 x 10 x 5"	32 ECT	Single Wall	**11R370**
15 x 10 x 8"	32 ECT	Single Wall	**11R372**
15 x 12 x 4"	32 ECT - Flat	Single Wall	**11R375**
15 x 12 x 10"	32 ECT	Single Wall	**11A725**
15 x 12 x 10"	200#	Single Wall	**55NM58**
15 x 12 x 12"	32 ECT	Single Wall	**11A726**
15 x 13 x 7"	32 ECT	Single Wall	**11R378**
15 x 15 x 10"	200#	Single Wall	**55NM59**
15 x 15 x 12"	32 ECT	Single Wall	**11A728**
15 x 15 x 15"	32 ECT - Cube	Single Wall	**11A729**

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For more boxes, see Grainger.com.

Standard Shipping Boxes

Inside L x W x H	Box Description	Wall Type	Item No.
15 x 15 x 15"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM18**
15 x 15 x 15"	200# - Cube	Single Wall	**55NM60**
15 x 15 x 24"	32 ECT - Tall	Single Wall	**11A731**
16 x 10 x 6"	32 ECT	Single Wall	**11R384**
16 x 10 x 8"	32 ECT	Single Wall	**11R385**
16 x 10 x 10"	200#	Single Wall	**55NM61**
16 x 12 x 6"	32 ECT	Single Wall	**11R388**
16 x 12 x 6"	200#	Single Wall	**55NM62**
16 x 12 x 8"	32 ECT	Single Wall	**11R389**
16 x 12 x 8"	200#	Single Wall	**55NM63**
16 x 12 x 10"	32 ECT	Single Wall	**11A737**
16 x 12 x 10"	200#	Single Wall	**55NM64**
16 x 12 x 12"	32 ECT	Single Wall	**11A738**
16 x 12 x 12"	200#	Single Wall	**55NM65**
16 x 13 x 13"	32 ECT	Single Wall	**11A739**
16 x 14 x 10"	200#	Single Wall	**55NM66**
16 x 14 x 12"	32 ECT	Single Wall	**11A741**
16 x 16 x 4"	200# - Flat	Single Wall	**55NM67**
16 x 16 x 6"	32 ECT	Single Wall	**11R395**
16 x 16 x 8"	32 ECT	Single Wall	**11R396**
16 x 16 x 8"	200#	Single Wall	**55NM68**
16 x 16 x 10"	32 ECT	Single Wall	**11A743**
16 x 16 x 10"	200#	Single Wall	**55NM69**
16 x 16 x 12"	32 ECT	Single Wall	**11A745**
16 x 16 x 12"	200#	Single Wall	**55NM70**
16 x 16 x 16"	32 ECT - Cube	Single Wall	**11A747**
16 x 16 x 16"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM22**
16 x 16 x 16"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM24**
16 x 16 x 16"	200# - Cube	Single Wall	**55NM71**
17" to 18" Length			
17 x 11 x 8"	32 ECT	Single Wall	**55VH26**
17 x 12 x 12"	32 ECT	Single Wall	**11A754**
17 x 13 x 5"	32 ECT	Single Wall	**11R402**
17 x 13 x 13"	32 ECT	Single Wall	**11A755**
17 x 17 x 12"	32 ECT	Single Wall	**11A757**
17 x 17 x 17"	32 ECT - Cube	Single Wall	**55VH30**
17 x 17 x 17"	200# - Cube	Single Wall	**55NM72**
17¼ x 11½ x 12-6"	200# - Multi-Height	Single Wall	**55NM74**
17¼ x 11¼ x 8"	200#	Single Wall	**55NM73**
17¼ x 11¼ x 10"	32 ECT - Printer	Single Wall	**11A752**
18 x 10 x 6"	32 ECT	Single Wall	**11R406**
18 x 10 x 10"	32 ECT	Single Wall	**11A760**
18 x 12 x 4"	32 ECT	Single Wall	**11R408**
18 x 12 x 6"	32 ECT - Printer	Single Wall	**11R410**
18 x 12 x 6"	200# - Printer	Single Wall	**55NM75**
18 x 12 x 7"	32 ECT	Single Wall	**22XL72**
18 x 12 x 8"	200# - Printer	Single Wall	**55NM76**
18 x 12 x 9"	32 ECT - Printer	Single Wall	**22XL74**
18 x 12 x 10"	32 ECT - Printer	Single Wall	**11A761**
18 x 12 x 10"	48 ECT - Heavy Duty, Printer	Double Wall	**22XM30**
18 x 12 x 10"	200# - Printer	Single Wall	**55NM77**
18 x 12 x 12"	32 ECT - Printer	Single Wall	**11A762**
18 x 12 x 12"	48 ECT - Heavy Duty, Printer	Double Wall	**22XM32**
18 x 12 x 12"	200# - Printer	Single Wall	**55NM78**
18 x 14 x 6"	200# - Flat	Single Wall	**55NM79**
18 x 14 x 8"	200#	Single Wall	**55NM80**
18 x 14 x 10"	200#	Single Wall	**55NM81**
18 x 14 x 12"	32 ECT	Single Wall	**11A767**
18 x 14 x 12"	48 ECT - Heavy Duty	Double Wall	**22XM33**
18 x 14 x 12"	200#	Single Wall	**55NM82**
18 x 14 x 14"	32 ECT	Single Wall	**11A768**
18 x 14 x 14"	48 ECT - Heavy Duty	Double Wall	**22XM34**
18 x 14 x 14"	200#	Single Wall	**55NM83**
18 x 16 x 10"	32 ECT	Single Wall	**493T71**
18 x 16 x 14"	32 ECT	Single Wall	**11A771**
18 x 16 x 14"	200#	Single Wall	**55NM84**
18 x 18 x 4"	32 ECT - Flat	Single Wall	**11R420**
18 x 18 x 6"	32ECT	Single Wall	**60YP88**
18 x 18 x 12-6"	32 ECT - Multi-Height	Single Wall	**60YP98**
18 x 18 x 10"	200#	Single Wall	**55NM85**
18 x 18 x 18-10"	200# - Multi-Height	Single Wall	**55NM89**
18 x 18 x 12"	200#	Single Wall	**55NM86**
18 x 18 x 16"	32 ECT	Single Wall	**11A776**
18 x 18 x 16"	200#	Single Wall	**55NM87**
18 x 18 x 18"	32 ECT - Cube	Single Wall	**11A777**
18 x 18 x 18"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM40**
18 x 18 x 18"	48 ECT - Cube, Heavy Duty	Single Wall	**22XM35**
18 x 18 x 18"	200# - Cube	Single Wall	**55NM88**
18 x 18 x 24"	32 ECT	Single Wall	**493T73**
18 x 18 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM38**
18 x 18 x 28"	32 ECT	Single Wall	**11A780**
20" to 22" Length			
20 x 8 x 8"	32 ECT - Long	Single Wall	**11R244**
20 x 10 x 8"	32 ECT - Long	Single Wall	**493T39**
20 x 10 x 10"	200# - Long	Single Wall	**55NM90**
20 x 12 x 6"	32 ECT - Flat	Single Wall	**11R427**
20 x 12 x 12-6"	32 ECT - Multi-Height	Single Wall	**493U74**
20 x 12 x 10"	32 ECT	Single Wall	**11A787**
20 x 12 x 12"	32 ECT - Long	Single Wall	**493T75**
20 x 12 x 12"	48 ECT - Heavy Duty, Long	Double Wall	**22XM42**
20 x 12 x 12"	200# - Long	Single Wall	**55NM91**
20 x 14 x 6"	200# - Flat	Single Wall	**55NM92**
20 x 14 x 14-8"	32 ECT - Multi-Height	Single Wall	**493U75**
20 x 14 x 10"	32ECT	Single Wall	**60YP85**
20 x 14 x 10"	200#	Single Wall	**55NM93**
20 x 14 x 12"	32 ECT	Single Wall	**11A791**
20 x 14 x 12"	200#	Single Wall	**55NM94**
20 x 14 x 14"	200#	Single Wall	**55NM95**
20 x 15 x 12"	32 ECT	Single Wall	**493T76**
20 x 16 x 4"	32 ECT	Single Wall	**11R432**
20 x 16 x 6"	32 ECT	Single Wall	**493T41**
20 x 16 x 8"	200#	Single Wall	**55NM96**
20 x 16 x 14-8"	200# - Multi-Height	Single Wall	**55NM98**
20 x 16 x 10"	32 ECT	Single Wall	**493T77**
20 x 16 x 12"	32 ECT	Single Wall	**493T78**
20 x 16 x 14"	44 ECT - Heavy Duty	Single Wall	**22XM43**
20 x 16 x 14"	200#	Single Wall	**55NM97**
20 x 16 x 16"	32ECT	Single Wall	**60YP89**
20 x 16 x 16"	48 ECT - Heavy Duty	Double Wall	**22XM45**
20 x 16 x 16"	200#	Single Wall	**55NM99**
20 x 18 x 18"	32 ECT	Single Wall	**11A805**
20 x 20 x 4"	32 ECT	Single Wall	**493T44**
20 x 20 x 6"	200# - Flat	Single Wall	**55NN01**
20 x 20 x 12-6"	32 ECT - Multi-Height	Single Wall	**49J994**
20 x 20 x 8"	32 ECT - Flat	Single Wall	**11A614**
20 x 20 x 10"	32 ECT	Single Wall	**493T81**
20 x 20 x 10"	48 ECT - Heavy Duty	Double Wall	**55VM36**
20 x 20 x 10"	200#	Single Wall	**55NN02**
20 x 20 x 12"	48 ECT - Heavy Duty	Double Wall	**22XM47**
20 x 20 x 12"	200#	Single Wall	**55NN03**
20 x 20 x 14"	32 ECT	Single Wall	**493T83**
20 x 20 x 15"	32 ECT	Single Wall	**11A809**
20 x 20 x 16"	32 ECT	Single Wall	**493T84**
20 x 20 x 16"	48 ECT - Heavy Duty	Double Wall	**22XM48**
20 x 20 x 18"	32 ECT	Single Wall	**493T85**
20 x 20 x 20"	32 ECT - Cube	Single Wall	**493T86**
20 x 20 x 20"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM49**
20 x 20 x 20"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM50**
20 x 20 x 20"	200# - Cube	Single Wall	**55NN04**
20 x 20 x 24"	32 ECT	Single Wall	**493T87**
20 x 20 x 25"	32 ECT	Single Wall	**10Y705**
20 x 20 x 28"	32 ECT	Single Wall	**22XL19**
20 x 20 x 36"	32 ECT - Tall	Single Wall	**10Y707**
21 x 12 x 12"	32 ECT - Long	Single Wall	**10Y710**
21 x 21 x 21"	32 ECT - Cube	Single Wall	**10Y713**
22 x 12 x 12"	32 ECT - Long	Single Wall	**10Y715**
22 x 14 x 12"	32 ECT	Single Wall	**10Y717**
22 x 14 x 12"	48 ECT - Heavy Duty	Double Wall	**55VM29**
22 x 14 x 12"	200#	Single Wall	**55NN05**
22 x 14 x 14"	32 ECT	Single Wall	**10Y718**
22 x 15 x 15"	32 ECT - Long	Single Wall	**22XL23**
22 x 16 x 14"	32 ECT	Single Wall	**55VH71**
22 x 16 x 16"	32ECT	Single Wall	**60YP91**
22 x 17 x 12"	32ECT	Single Wall	**60YP78**
22 x 17 x 12"	200#	Single Wall	**55NN06**
22 x 18 x 6"	32 ECT - Flat	Single Wall	**11A620**
22 x 18 x 16"	48 ECT - Heavy Duty	Double Wall	**55VM37**
22 x 18 x 16"	200#	Single Wall	**55NN07**
22 x 18 x 18"	32 ECT	Single Wall	**55VH73**
22 x 22 x 6"	32 ECT - Flat	Single Wall	**493T49**
22 x 22 x 12"	32ECT	Single Wall	**60YP79**
22 x 22 x 12"	200#	Single Wall	**55NN08**
22 x 22 x 16"	32 ECT	Single Wall	**493T94**
22 x 22 x 22-16"	32 ECT - Multi-Height	Single Wall	**493U76**
22 x 22 x 18"	32 ECT	Single Wall	**493T95**
22 x 22 x 22"	32 ECT - Cube	Single Wall	**493T96**
22 x 22 x 22"	44 ECT - Heavy Duty	Single Wall	**22XM53**
22 x 22 x 22"	48 ECT - Heavy Duty	Double Wall	**22XM54**
22 x 22 x 22"	200# - Cube	Single Wall	**55NN09**
23" to 26" Length			
23 x 17 x 12"	32 ECT	Single Wall	**10Y733**
24 x 5 x 18"	32 ECT - Side Loading	Single Wall	**11A646**
24 x 6 x 6"	200# - Long	Single Wall	**55NN10**
24 x 8 x 8"	200# - Long	Single Wall	**55NN11**
24 x 10 x 4"	32 ECT - Long	Single Wall	**11A625**
24 x 10 x 6"	32 ECT - Long	Single Wall	**11A626**
24 x 10 x 8"	32 ECT - Long	Single Wall	**11A627**
24 x 10 x 12"	32 ECT	Single Wall	**55VH78**
24 x 12½ x 8"	32 ECT	Single Wall	**22XK82**
24 x 12 x 10"	32 ECT - Long	Single Wall	**10Y735**
24 x 12 x 12"	32 ECT - Long	Single Wall	**493T97**
24 x 12 x 12"	32 ECT - Long, White	Single Wall	**22XL78**
24 x 12 x 12"	32 ECT - Multi-Height	Single Wall	**49J997**
24 x 12 x 12"	48 ECT - Heavy Duty, Long	Double Wall	**22XM56**
24 x 12 x 12"	200# - Long	Single Wall	**55NN12**
24 x 12 x 24"	32 ECT	Single Wall	**493T98**
24 x 14 x 6"	200# - Flat	Single Wall	**55NN13**
24 x 14 x 10"	32 ECT	Single Wall	**10Y738**
24 x 14 x 12"	200#	Single Wall	**55NN14**
24 x 14 x 14"	32ECT	Single Wall	**60YP93**
24 x 14 x 14"	48 ECT - Heavy Duty	Double Wall	**55VM31**
24 x 14 x 14"	200#	Single Wall	**55NN15**
24 x 14 x 18"	32 ECT	Single Wall	**493U01**
24 x 15 x 10"	32 ECT	Single Wall	**10Y742**
24 x 16 x 6"	32 ECT	Single Wall	**11A635**
24 x 16 x 12-6"	32 ECT - Multi-Height	Single Wall	**493U78**
24 x 16 x 12-6"	200# - Multi-Height	Single Wall	**55NN17**
24 x 16 x 10"	32ECT	Single Wall	**60YP80**
24 x 16 x 12"	32 ECT	Single Wall	**493U02**
24 x 16 x 12"	200#	Single Wall	**55NN16**
24 x 16 x 14"	32 ECT	Single Wall	**493U03**
24 x 16 x 16"	200#	Single Wall	**55NN18**
24 x 16 x 24"	32 ECT	Single Wall	**493U05**
24 x 18 x 6"	32 ECT - Flat	Single Wall	**11A638**
24 x 18 x 12-6"	32 ECT - Multi-Height	Single Wall	**493U79**
24 x 18 x 8"	32 ECT	Single Wall	**11A639**
24 x 18 x 10"	32ECT	Single Wall	**60YP95**
24 x 18 x 12"	32 ECT	Single Wall	**493U08**
24 x 18 x 12"	44 ECT - Heavy Duty	Single Wall	**22XM58**
24 x 18 x 12"	200#	Single Wall	**55NN19**
24 x 18 x 16"	32 ECT	Single Wall	**493U10**
24 x 18 x 18"	32ECT	Single Wall	**60YP96**
24 x 18 x 18"	48 ECT - Heavy Duty	Double Wall	**22XM61**
24 x 18 x 18"	200#	Single Wall	**55NN20**
24 x 18 x 24"	32 ECT	Single Wall	**22XL31**
24 x 20 x 20"	32 ECT	Single Wall	**493U16**
24 x 20 x 20"	48 ECT - Heavy Duty	Double Wall	**22XM63**
24 x 20 x 20"	200#	Single Wall	**55NN21**
24 x 24 x 4"	32 ECT - Flat	Single Wall	**493T52**
24 x 24 x 6"	32 ECT - Flat	Single Wall	**493T53**
24 x 24 x 12-6"	32 ECT	Single Wall	**49K003**
24 x 24 x 8"	32 ECT - Flat	Single Wall	**11A645**
24 x 24 x 12"	44 ECT - Heavy Duty	Single Wall	**22XM64**
24 x 24 x 12"	48 ECT - Heavy Duty	Double Wall	**22XM65**
24 x 24 x 12"	200#	Single Wall	**55NN22**
24 x 24 x 24-12"	32 ECT - Multi-Height	Single Wall	**493U81**
24 x 24 x 18"	32 ECT	Single Wall	**493U21**
24 x 24 x 18"	48 ECT - Heavy Duty	Double Wall	**22XM66**
24 x 24 x 24"	32 ECT - Cube	Single Wall	**493U23**
24 x 24 x 24"	44 ECT - Cube, Heavy Duty	Single Wall	**22XM67**
24 x 24 x 24"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM69**
24 x 24 x 24"	200# - Cube	Single Wall	**55NN23**
24 x 24 x 48"	32 ECT - Tall	Single Wall	**11G117**
25 x 25 x 25"	32 ECT	Single Wall	**493U26**
26 x 12 x 12"	200# - Long	Single Wall	**55NN24**
26 x 15 x 5"	32 ECT - Flat	Single Wall	**11A649**
26 x 15 x 7"	32 ECT - Flat	Single Wall	**11A650**
26 x 15 x 12"	200#	Single Wall	**55NN25**
26 x 18 x 16"	32 ECT	Single Wall	**493U31**
26 x 20 x 12-6"	200# - Multi-Height	Single Wall	**55NN26**
26 x 20 x 10"	32 ECT	Single Wall	**55VH98**
26 x 20 x 18"	32 ECT	Single Wall	**11G133**
26 x 26 x 26"	32 ECT - Cube	Single Wall	**11G139**
28" to 36" Length			
28 x 8 x 8"	32 ECT - Long	Single Wall	**11R257**
28 x 20 x 12"	32 ECT	Single Wall	**11G147**
28 x 28 x 28"	48 ECT - Cube, Heavy Duty	Double Wall	**55VM51**
29 x 17 x 9"	32 ECT - Flat	Single Wall	**11A661**
30 x 5 x 24"	32 ECT - Side Loading	Single Wall	**11A666**
30 x 14 x 10"	32 ECT - Long	Single Wall	**493U43**
30 x 17 x 16-10"	32 ECT - Multi-Height	Single Wall	**493U84**
30 x 20 x 6"	32 ECT - Flat	Single Wall	**493T59**
30 x 20 x 12"	32 ECT	Single Wall	**493U47**
30 x 20 x 20"	32 ECT	Single Wall	**493U48**
30 x 20 x 20"	48 ECT - Heavy Duty	Double Wall	**22XM72**
30 x 30 x 10"	32 ECT	Single Wall	**11G166**
30 x 30 x 20"	32 ECT	Single Wall	**55VJ28**
30 x 30 x 30"	32 ECT - Cube	Single Wall	**11G170**
30 x 30 x 30"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM74**
30 x 30 x 30"	200# - Cube	Single Wall	**55NN27**
32 x 12 x 10"	32 ECT - Long	Single Wall	**55VJ33**
32 x 18 x 8"	32 ECT	Single Wall	**55VJ35**
32 x 24 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM75**
32 x 32 x 32"	48 ECT - Cube, Heavy Duty	Double Wall	**55VM55**
36 x 5 x 24"	32 ECT - Side Loading	Single Wall	**55VJ41**
36 x 5 x 30"	32 ECT - Side Loading	Single Wall	**55VJ42**
36 x 8 x 8"	32 ECT - Long	Single Wall	**11R263**
36 x 12 x 12"	32 ECT - Long	Single Wall	**493U50**
36 x 12 x 12"	48 ECT - Heavy Duty, Long	Double Wall	**22XM76**
36 x 16 x 16"	200# - Long	Single Wall	**55NN28**
36 x 18 x 18"	48 ECT - Heavy Duty	Double Wall	**55VM46**
36 x 24 x 6"	32 ECT - Flat	Single Wall	**493T62**
36 x 24 x 8"	32 ECT - Flat	Single Wall	**11A671**
36 x 24 x 12"	32 ECT	Single Wall	**493U51**
36 x 24 x 24"	32 ECT	Single Wall	**493U53**
36 x 24 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM78**
36 x 24 x 24"	200#	Single Wall	**55NN29**
36 x 36 x 12"	48 ECT - Heavy Duty	Double Wall	**55VM52**
36 x 36 x 18"	32 ECT	Single Wall	**11G186**
36 x 36 x 24"	32 ECT	Single Wall	**11G187**
36 x 36 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM79**
36 x 36 x 36"	32 ECT - Cube	Single Wall	**11G188**
36 x 36 x 36"	48 ECT - Cube, Heavy Duty	Double Wall	**22XM80**
36 x 36 x 36"	200# - Cube	Single Wall	**55NN30**
40" to 60" Length			
40 x 6 x 36"	44 ECT - Side Loading	Single Wall	**22XL89**
40 x 8 x 8"	32 ECT - Long	Single Wall	**11R264**
40 x 18 x 8"	32 ECT	Single Wall	**11A674**
40 x 20 x 20"	48 ECT - Heavy Duty	Double Wall	**55VM49**
40 x 30 x 30"	32 ECT	Single Wall	**55VJ63**
40 x 30 x 30"	48 ECT - Heavy Duty	Double Wall	**55VM53**
46 x 20 x 12"	32 ECT	Single Wall	**55VJ67**
48 x 8 x 8"	32 ECT	Single Wall	**11R279**
48 x 12 x 12"	32 ECT - Long	Single Wall	**493U55**
48 x 16 x 16"	32 ECT - Long	Single Wall	**55VJ69**
48 x 24 x 12"	32 ECT	Single Wall	**11G191**
48 x 24 x 24"	32 ECT	Single Wall	**493U56**
48 x 24 x 24"	48 ECT - Heavy Duty	Double Wall	**22XM86**
60 x 12 x 12"	32 ECT - Long	Single Wall	**55VJ79**

For more boxes, see Grainger.com.

Insulated Box Liners

- Min. temp.: -60°F
- Max. temp.: 180°F

Made of flexible air bubble packaging with a layer of shiny, reflective film. They fold into a shape that lines boxes and close at the top and seal the contents. Used for shipping perishable products, and keep excess heat or cold out of the package, preserving the contents and preventing spoilage of food or medication. FDA compliant materials.

Liner Length	Liner Width	Liner Height	Liners per Case	Item No.
6"	6"	6"	25	**56LA20**
8"	8"	8"	25	**56LA21**
10"	10"	10"	25	**56LA22**
12"	10"	9"	25	**56LA23**
	12"	12"	25	**56LA24**
14"	10"	10"	25	**56LA25**
	14"	14"	15	**56LA26**
16"	16"	16"	15	**56LA27**
18"	12"	12"	25	**56LA28**
20"	20"	20"	10	**56LA29**
24"	18"	18"	10	**56LA30**

Gaylord Container

Bulk Cargo Container

Lids for Gaylord & Bulk Cargo Containers

Gaylords and Bulk Containers and Lids

Half Slotted Container (HSC) closure style boxes have bottom flaps that meet at the center of the box; however, there is no cover or flap on top. These boxes are for applications where boxes require frequent loading and unloading. Typically, a lid is required to close the box. Regular Slotted Container (RSC) have top flaps that meet at the center of the box when folded and are usually closed using tape or staples.

Gaylord Containers—These large boxes have outside measurements of 48"L x 40"W and varying heights that fit on a pallet. They hold and organize bulk loads and transfer large shipments between locations. They are commonly used to collect recycling, trash, or debris at a facility.

Bulk Cargo Containers—Are measured with outside dimensions for matching to pallet sizes. These large boxes consolidate and transfer large shipments that need to stay together from one location to another. They are commonly used for master packing bulk loads of similar products or to collect garbage or recyclable materials in a facility.

Lids for Gaylord and Bulk Cargo Containers—Cover and close bulk cargo and gaylord containers while protecting the contents from dirt and dust during transport or storage. They allow bulk cargo and gaylord containers to be stacked within warehouses or storage facilities. They can be reused as covers or flipped upside down and used as a tray to store and organize items in a warehouse or facility.

Inside L x W x H	Outside L x W x H	Wall Type	Board Test	Closure Style	Wall Thickness	Item No.
Gaylord Containers						
46¾ x 38¾ x 24"	48 x 40 x 24"	Triple Wall	90 ECT	HSC	½"	**55VJ71**
46¾ x 38¾ x 37"	48 x 40 x 36"	Triple Wall	90 ECT	HSC	½"	**55VJ75**
46¾ x 38¾ x 37¾"	48 x 40 x 36"	Triple Wall	90 ECT	RSC	½"	**55VJ74**
46¾ x 38¾ x 48"	48 x 40 x 48"	Triple Wall	155 ECT	HSC	9/16"	**55VJ76**
47⅝ x 39⅝ x 35⅝"	48 x 40 x 36"	Single Wall	32 ECT	HSC	⅛"	**54TV16** *
48⅝ x 39⅝ x 35⅝"	48 x 40 x 36"	Double Wall	51 ECT	HSC	¼"	**55NN31**
49⅝ x 39⅝ x 35⅝"	48 x 40 x 36"	Double Wall	51 ECT	HSC	9/32"	**55VJ73**
50⅝ x 39⅝ x 35⅝"	48 x 40 x 36"	Double Wall	51 ECT	RSC	9/32"	**55VJ72**
Bulk Cargo Containers						
30 x 17 x 17"	30¾ x 17¾ x 18¾"	Double Wall	51 ECT	RSC	9/32"	**55VJ23**
30 x 30 x 30"	31 x 31 x 31"	Triple Wall	90 ECT	RSC	½"	**55VJ29**
36 x 22 x 22"	36¾ x 22¾ x 22¾"	Double Wall	51 ECT	RSC	9/32"	**55VJ53**
36 x 36 x 36"	37 x 37 x 36"	Triple Wall	90 ECT	HSC	½"	**55VJ59**
36 x 36 x 36"	37 x 37 x 37"	Triple Wall	90 ECT	RSC	½"	**55VJ58**
40 x 30 x 30"	41 x 31 x 30"	Triple Wall	90 ECT	HSC	½"	**55VJ64**
40 x 40 x 40"	41 x 41 x 40"	Triple Wall	90 ECT	HSC	½"	**55VJ65**
46¾ x 46¾ x 36"	48 x 48 x 36"	Triple Wall	90 ECT	HSC	½"	**55VJ77**
46¾ x 46¾ x 48"	48 x 48 x 48"	Triple Wall	90 ECT	HSC	½"	**55VJ78**
47¼ x 39½ x 36"	48 x 40 x 36"	Single Wall	32 ECT	HSC	5/32"	**55VL58**
47¾ x 40 x 34"	48 x 40 x 36"	Single Wall	32 ECT	HSC	5/32"	**55VL59**
48 x 24 x 28"	49 x 25 x 28"	Triple Wall	90 ECT	HSC	½"	**55VJ70**
56¾ x 38 x 39"	58 x 41 x 45"	Double Wall	51 ECT	HSC	¼"	**3EVU6**
Lids for Gaylord & Bulk Cargo Containers						
36¾ x 36¾ x 5"	37½ x 37½ x 6"	Double Wall	48 ECT	—	¼"	**55VJ80**
40¾ x 30¾ x 5"	41½ x 31½ x 6"	Double Wall	48 ECT	—	¼"	**55VJ81**
40¾ x 40¾ x 5"	41½ x 41½ x 6"	Double Wall	48 ECT	—	¼"	**55VJ82**
48¾ x 24¾ x 5"	49½ x 25½ x 6"	Double Wall	48 ECT	—	¼"	**55VJ83**
48¾ x 48¾ x 5"	49½ x 49½ x 6"	Double Wall	48 ECT	—	¼"	**55VJ85**
49¼ x 41¼ x 4"	49¾ x 41¾ x 4¾"	Single Wall	44 ECT	Lid	3/16"	**55VM56**
49¼ x 41¼ x 5"	49¾ x 41¾ x 5¾"	Single Wall	44 ECT	—	3/16"	**55VJ84**

** Box USA.*

Reinforced Literature Mailers

52RT03

- White color

Triple-layer sidewalls and double-layer front panels prevent the package from tearing or bursting during transit. They are stronger than standard literature mailers and ideal for shipping fragile items wrapped in protective packaging material.

Inside L x W x H	Board Test	Item No.
4 x 3 x 3"	200#	**52RR41**
4 x 4 x 2"	200#	**52RR42**
4 x 4 x 4"	200#	**52RR44**
4⅜ x 4⅜ x 2"	200#	**52RT03**
4⅜ x 4⅜ x 3½"	200#	**52RT27**
5 x 5 x 2"	200#	**52RR49**
6 x 4 x 2"	200#	**52RR54**
6 x 4 x 3"	200#	**52RR55**
6 x 4 x 4"	200#	**52RR56**
7 x 3 x 2"	200#	**52RR62**
7 x 4 x 2"	200#	**52RR64**
7 x 4 x 3"	200#	**52RR65**
7 x 4 x 4"	200#	**52RR66**
7 x 5 x 3"	200#	**52RR67**
7 x 7 x 2"	32 ECT	**55VK25**
7⅛ x 5 x 3"	200#	**52RT26**
8 x 4 x 4"	200#	**52RR78**
8 x 7 x 3"	32 ECT	**55VK30**
8 x 8 x 3"	200#	**52RR84**
9 x 6½ x 2¾"	32 ECT	**55VK37**
9 x 9 x 2"	32 ECT	**55VK42**
9 x 9 x 4"	32 ECT	**55VK44**
10 x 6 x 4"	200#	**52RR94**

Inside L x W x H	Board Test	Item No.
10 x 8 x 3"	32 ECT	**55VK47**
10 x 9 x 4"	32 ECT	**55VK50**
10 x 10 x 4"	32 ECT	**55VK53**
11 x 10 x 4"	32 ECT	**55VK57**
11⅛ x 8¾ x 2"	32 ECT	**55VK62**
11⅛ x 8¾ x 4"	32 ECT	**55VK65**
11⅛ x 8¾ x 5"	32 ECT	**55VK66**
11⅛ x 8¾ x 6"	32 ECT	**55VK67**
12 x 9 x 2"	32 ECT	**55VK71**
12 x 10 x 4"	32 ECT	**55VK73**
12 x 12 x 4"	32 ECT	**55VK78**
12 x 12 x 6"	32 ECT	**55VK79**
12⅛ x 9¼ x 6"	32 ECT	**55VK86**
13 x 10 x 1¼"	32 ECT	**55VK89**
13 x 10 x 4"	32 ECT	**55VK92**
14 x 14 x 5"	32 ECT	**55VL03**
15 x 12 x 2"	32 ECT	**55VL07**
15⅛ x 11⅛ x 3"	32 ECT	**55VL09**
16 x 16 x 4"	32 ECT	**55VL17**
18 x 12 x 3"	32 ECT	**55VL25**
18 x 12 x 4"	200#	**52RT15**
30 x 24 x 4"	32 ECT	**55VL29**

Printed Moving Boxes and Kit

Printed Moving Boxes—Large enough to hold household items and small enough to be handled by movers and stacked in a truck or container for transport. They are preprinted with labels that allow movers to write in identifying information.

Kit—Includes a combination of products for packing and moving household items. Boxes have labeled areas for writing in contents or other identifying information. Protective packaging material wraps fragile items to protect them from damage during transport such as cracks or chips. Tape seals a packed box, and markers label boxes with contents. Moving kit includes:

1PKA2

(5) boxes: 16" x 12-½" x 12-½"; (4) boxes: 18" x 18" x 16"; (2) boxes: 24" x 18" x 18"; (1) tall box: 26" x 6" x 36-½"

(2) rolls of tape: 2" x 55 yds.; (2) rolls of bubble wrap: 16" x 9"; and (1) black marker.

Inside L x W x H	Board Test	Wall Type	Item No.
Printed Moving Boxes			
16 x 12 ½ x 12 ½ in	200#	Single Wall	**1PJZ3**
18 x 18 x 16 in	200#	Single Wall	**1PJZ4**
24 x 18 x 18 in	200#	Single Wall	**1PJZ5**
24 x 18 x 24 in	200#	Single Wall	**1PJZ6**

Inside L x W x H	Board Test	Wall Type	Item No.
Printed Moving Box Kit			
26 x 5¾ x 37 in	200#	Single Wall	**1PKA2**

Corrugated Pads

Standard-Duty pads are sheets of cardboard for layering between items on a pallet. They separate products in a stack, protecting them from damage or slippage and can protect the floor from pallet base damage.

Heavy-Duty double-walled cardboard sheets are for layering between heavy products, such as paint cans, bricks, or appliances.

	Standard-Duty 32 ECT Single Wall			Heavy-Duty 48 ECT Double Wall		
W	L	Thickness	Item No.	L	Thickness	Item No.
24"	—	—	—	36"	9/32 in	**56EC41**
	—	—	—	48"	9/32 in	**56EC42**
30"	—	—	—	40"	9/32 in	**56EC43**
36"	48"	5/32 in	**55VK04**	36"	9/32 in	**56EC44**
	72"	5/32 in	**55VK05**	48"	9/32 in	**56EC45**
40"	60"	⅛ in	**56EC39**	—	—	—
	48"	5/32 in	**55VK08**	48"	9/32 in	**56EC46**
42"	42"	5/32 in	**55VK09**	—	—	—
	48"	5/32 in	**55VK10**	—	—	—
48"	60"	5/32 in	**55VK12**	60"	¼ in	**55VK16**
	72"	5/32 in	**55VK13**	48"	9/32 in	**56EC47**
	—	—	—	72"	9/32 in	**56EC48**
	—	—	—	96"	9/32 in	**56EC49**
60"	60"	5/32 in	**55VK14**	—	—	—
	96"	5/32 in	**55VK15**	—	—	—

For more boxes, see Grainger.com®.

DANGEROUS GOODS

PolarTech Industries

22EP43

Paint Can Shipping Kits

- Berlin brand items are UN Rated
- Polar Tech brand items are UN/USA D.O.T. Approved containers

These preassembled boxes are for shipping containers of paint, primers, or floor coatings. They are labeled with codes that identify the contents, and they are printed with arrows that help handlers keep the boxes in an upright position during transit.

Inside L x W x H	UN Rating Solid	Holds Number of Containers/ Container Size	Board Test	Brand	Item No.
5 x 5 x 6 in	4G/Y2.3/S	(1) 1 qt Paint Can	275#	Berlin	**22EP43**
5⅜ x 5⅜ x 6⅜ in	4G/Y1.8/S	(1) 1 qt Can	275#	Polar Tech	**12F315**
5⅜ x 5⅜ x 6⅜ in	4G/Y1.8/S	(1) 1 qt Can	275#	Polar Tech	**40TE38**
8⅜ x 5⅞ x 12⅜ in	4G/Y6.7/S	(1) 1 gal Can	275#	Polar Tech	**12F321**
8½ x 8½ x 9¼ in	4G/Y7.8/S	(1) 1 gal Can	275#	Berlin	**22EP44**
8⁵⁄₁₆ x 5¹³⁄₁₆ x 12⅜ in	4G/Y6.7/S	(1) 1 gal Can	275#	Polar Tech	**40TE35**
8⅝ x 8⅝ x 10⅛ in	4G/Y1.8/S	(1) 1 gal Can	275#	Polar Tech	**12F318**
8⅝ x 8⅝ x 10⅛ in	4G/Y6.8/S	(1) 1 gal Can	275#	Polar Tech	**40TE34**
10 x 10 x 6 in	4G/Y9.3/S	(4) 1 qt Cans	200#DW	Berlin	**22EP45**
10⅝ x 10⅜ x 6⅜ in	4G/Y1.8/S	(4) 1 qt Cans	275#	Polar Tech	**12F317**
10⅝ x 10⅜ x 6⅜ in	4G/Y7/S	(4) 1 qt Cans	275#	Polar Tech	**40TE31**
10¾ x 5⅜ x 6⅜ in	4G/Y1.8/S	(2) 1 qt Cans	275#	Polar Tech	**12F316**
11⅝ x 8⅜ x 12⅜ in	4G/Y6.7/S	(2) 1 gal Cans	275#	Polar Tech	**12F322**
16½ x 11½ x 12⅜ in	4G/Y26.5/S	(4) 1 gal Cans	275#	Polar Tech	**40TE37**
17 x 17 x 9¼ in	4G/Y35.3/S	(4) 1 gal Cans	275#	Berlin	**22EP46**
17⅛ x 8⅝ x 10⅛ in	4G/Y1.8/S	(2) 1 gal Cans	275#	Polar Tech	**12F319**
17⅛ x 8⅝ x 10⅛ in	4G/Y26.8/S	(2) 1 gal Cans	275#	Polar Tech	**40TE28**
17⅛ x 17⅛ x 10⅛ in	4G/Y1.8/S	(4) 1 gal Cans	275#	Polar Tech	**12F320**
17⅝ x 17⅝ x 10⅛ in	4G/Y26.8/S	(4) 1 gal Cans	275#	Polar Tech	**40TE25**

PolarTech Industries

SONOCO THERMOSAFE

Cold Packs

- Reusable

Gel—These packs are flexible when not frozen and contain refrigerant gel that stays colder longer than ice. They help maintain a consistent temperature inside boxes or pallets of perishable products. Moisture safe packs have a nonwoven poly cloth that absorbs moisture.

Freezer—Rigid cold packs resist damage from punctures and can last for years. They contain a nontoxic gel that helps maintain a consistent temperature in coolers and ice chests to prevent perishable products from spoiling.

Cold Packs—These leakproof packs of refrigerant gel stay colder longer than ice. They help maintain a consistent temperature inside boxes or pallets of perishable products.

Gel Pack 12F366

Freezer Pack 4YRJ3

Cold Pack Styles	Weight	L	W	Brand	Item No.	Pkg. Qty.
Gel Packs						
Biodegradable	8 lb	6¼"	6"	Polar Tech	**12F377**	8
	9 lb	6"	4"	Polar Tech	**12F375**	18
	9 lb	8"	6"	Polar Tech	**12F378**	6
	10 lb	6"	6"	Polar Tech	**12F376**	12
	19 lb	5½"	4"	Polar Tech	**12F374**	48
Leak Proof	19 lb	5½"	4"	Polar Tech	**6TVL2**	48
	19 lb	10"	6"	Polar Tech	**6TVL3**	9
Moisture Safe	8 lb	6"	4"	Polar Tech	**12F367**	18
	8 lb	8"	8"	Polar Tech	**12F371**	4
	9 lb	6"	6"	Polar Tech	**12F368**	12
	9 lb	10¼"	8"	Polar Tech	**12F373**	3
	19 lb	5½"	4"	Polar Tech	**12F366**	48
	19 lb	10"	6"	Polar Tech	**12F372**	9

Weight	L	W	Brand	Item No.	Pkg. Qty.
Freezer Packs					
8 oz	6"	4"	Thermosafe	**3KEG4**	36
24 oz	7½"	6½"	Thermosafe	**420L98**	12
8 lb	8"	8"	Polar Tech	**4YRJ7**	4
9 lb	6"	4"	Polar Tech	**4YRJ3**	18
9 lb	6"	6"	Polar Tech	**4YRJ4**	12
9 lb	6¼"	6"	Polar Tech	**4YRJ5**	8
9 lb	8"	6"	Polar Tech	**4YRJ6**	6
9 lb	10¼"	8"	Polar Tech	**4YRJ8**	3
Cold Packs					
3 oz	3"	5"	Thermosafe	**420M01**	60
3 oz	3¼"	4"	Thermosafe	**420L64**	192
5 lb	9"	4"	Polar Tech	**4YRK2**	3
6 lb	4"	2¼"	Polar Tech	**4YRJ9**	12
6 lb	4½"	4"	Polar Tech	**4YRK1**	6
8 oz	6"	4"	Thermosafe	**3KEG2**	36

Insulated Foam Shipping Container 12F276

Insulated Box & Foam Shipping Kit 12F337

PolarTech Industries

Insulated Shipping Kits

Box and Foam Kits—Preassembled kits include a shipping box with a lidded foam insert for packaging and shipping food, beverage, and pharmaceutical products. The foam container holds the product and fits securely into the box. These kits help keep the package temperature constant and prevent damage to the products from excessive heat or cold.

Foam Containers—Lightweight boxes made of expanded polystyrene have a tight-fitting lid that closes the box opening with an insulated seal. These reusable containers resist leaks and keep food and medical supplies cold during transport.

Inside L x W x H	Insert Wall Thickness	Item No.	Pkg. Qty.
Insulated Foam Shipping Containers			
6 x 4½ x 3"	1.0"	**12F276**	1
6 x 4½ x 5¼"	1.0"	**12F275**	1
6 x 5 x 6½"	1.25"	**12F333**	2
10½ x 8¼ x 9¼"	1.5"	**12F334**	3
10 x 10 x 4¼"	0.75"	**12T969**	3
12 x 10 x 15"	1.5"	**12F335**	2

Inside L x W x H	Insert Wall Thickness	Item No.	Pkg. Qty.
Insulated Box and Foam Shipping Kits			
6 x 5 x 4½"	1.25"	**12F381**	2
6 x 5 x 6½"	1.25"	**12F382**	2
7 x 6 x 5½"	0.75"	**12T966**	2
8 x 6 x 4¼"	1.5"	**53XM39**	3
8 x 6 x 7"	1.5"	**53XM40**	1
8 x 6 x 9"	1.5"	**12F337**	4
9½ x 7½ x 5½"	0.75"	**12T967**	3
9½ x 7½ x 10½"	0.75"	**12T968**	2
9½ x 9½ x 7"	1.25"	**53XM42**	2
10⅜ x 10⅜ x 7¼"	1.25"	**12F401**	4
10⅜ x 10⅜ x 11"	1.25"	**12F402**	2
10½ x 8¼ x 9¼""	1.5"	**12F386**	2
10½ x 10½ x 8"	0.75"	**12T970**	2
10⅝ x 6½ x 5"	0.75"	**12F414**	4
12 x 10 x 5"	1.5"	**53XM43**	4
12 x 10 x 7"	1.5"	**12F338**	2
12 x 10 x 9"	1.5"	**12F339**	2
12 x 10 x 15"	1.5"	**12F387**	1
12 x 12 x 11½"	2.0"	**12F340**	1
12¾ x 12¾ x 12½"	1.25"	**12F405**	1
13⅜ x 11⅜ x 11⅞"	1.25"	**12F389**	1
13 x 13 x 12½"	1.5"	**12F341**	1
14 x 8 x 10"	0.75"	**12T973**	1
14½ x 14½ x 13"	1.25"	**12F417**	1
14½ x 14½ x 14"	0.75"	**12T974**	1
15 x 13 x 13"	0.75"	**12T975**	1
16 x 9 x 13"	3.0"	**12F391**	1
16⅜ x 16⅜ x 15"	2.0"	**53XM45**	1
17 x 10 x 12⅜"	1.5"	**12F392**	1
17 x 17 x 9"	1.5"	**12F343**	1
18 x 14 x 19"	1.25"	**12F344**	1
18¾ x 18¾ x 17"	0.75"	**12T980**	1
19 x 12 x 12½"	1.5"	**12F345**	1
19 x 12 x 16"	1.5"	**12F394**	1
21¼ x 15½ x 15½"	2.0"	**12F347**	1
22⅞ x 16⅞ x 16⅞"	1.25"	**12T983**	1
23 x 14 x 23"	2.5"	**12F395**	1
25 x 16½ x 12"	1.5"	**12F397**	1
26 x 19⅜ x 10½"	1.5"	**53XM46**	1
30¼ x 14½ x 16"	1.5"	**12F398**	1

SONOCO THERMOSAFE

Insulated Plastic Shipping Containers

Reusable boxes or totes secure food products for transport. These hard plastic containers help maintain a constant temperature inside the package and protect the contents against damage from excessive heat or cold. They are more durable and maintain temperature longer than corrugated boxes and foam containers.

420M05

420M29

Inside L x W x H	Insert Wall Thickness	Item No.
Urethane		
22 x 12 x 26"	2.5"	**420M05**
37 x 41 x 29"	3.0"	**420M10**
37 x 41 x 31"	3.0"	**420M11**
42 x 37 x 21"	3.0"	**420M08**
Urethane Foam		
15 x 14 x 15¼"	2.0"	**420M29**
16⅝ x 10¼ x 12"	2.25"	**420M16**
22⅞ x 13½ x 21"	2.0"	**420M27**

Insulated Mailers

- ³⁄₁₆" bubble

These envelopes with a self-sealing closure hold small product samples or individual pill containers. They are made of air bubble packaging material with a layer of shiny, reflective film that keeps excess heat and cold out of the package. They maintain a consistent temperature for the contents, preventing spoilage of food products or damage to medications. FDA compliant materials.

Outside WxL	Usable WxL	Mailer Number	Item No.
6½" x 10½"	6 in x 10 ¼ in	#0	**56LA08**
8" x 11"	7 ½ in x 10 ¾ in	#2	**56LA09**
11" x 15"	10 ½ in x 14 ¾ in	#5	**56LA10**
12" x 17"	10 in x 16 ½ in	#6	**56LA11**
15" x 17"	14 ½ in x 16 ¾ in	#7	**56LA12**
18" x 22"	17 ½ in x 21 ¾ in	—	**56LA13**

Poly Bubble Mailers

White

- 3/16" bubble

White mailers resist tearing, cushioning and padding items and protecting them from moisture and water. A self-sealing closure secures the contents for shipment. Commonly used for shipping small parts, sample products, and small gift items that aren't fragile.

Outside W x L	Usable W x L	Mailer Number	Item No.	Pkg. Qty.
4" x 8"	3⅞" x 6¾"	#0	**39UL18**	500
4" x 8"	4" x 7"	#000	**5VFR4**	500
5" x 10"	5" x 9"	#00	**5VFR5**	250
6" x 10"	6" x 9"	#0	**36DY90**	250
7¼" x 12"	7" x 11"	#1	**56KJ42**	100
8½" x 12"	8¼" x 11"	#2	**56KJ43**	100
8½" x 12"	8⅞" x 10¾"	#2	**36DZ20**	100
9½" x 14½"	9¼" x 13½"	#4	**5VFT0**	100
9½" x 14½"	9⅜" x 13¼"	#4	**39UK66**	100
10½" x 16"	10¼" x 15"	#5	**36DY99**	100
12½" x 19"	12¼" x 18"	#6	**36DZ23**	50
14¼" x 20"	14" x 19"	#7	**36DZ07**	50
24" x 24"	24" x 24"	—	**36DZ11**	125

Paper Bubble Mailers

Kraft

- 3/16" bubble

Mailers cost less than poly bubble mailers and are constructed of a kraft color paper envelope with a bubble liner. The self-sealing closure secures the contents in the envelope for shipment, and the liner provides cushioning to protect the item from damage. Commonly used for shipping small parts, sample products, and small gift items that aren't fragile.

Outside W x L	Usable W x L	Mailer Number	Item No.	Pkg. Qty.
4" x 8"	4" x 7"	#000	**36DZ22**	500
5" x 10"	5" x 9"	#00	**36DY92**	250
6½" x 10"	6¼" x 9"	#0	**36DY91**	250
7¼" x 12"	7" x 11"	#1	**36DY94**	100
8½" x 12"	8¼" x 11"	#2	**36DY95**	100
8½" x 14½"	8¼" x 13½"	#3	**36DZ18**	100
9½" x 14½"	9¼" x 13½"	#4	**36DY98**	100
10½" x 16"	10¼" x 15"	#5	**36DY93**	100
12½" x 19"	12¼" x 18"	#6	**36DZ02**	50
14¼" x 20"	14⅛" x 18¾"	#7	**39UK92**	50

Tear-Resistant Poly Mailers

White

Tear-resistant poly mailers are flexible envelopes that cannot be easily torn open. They are water-resistant and protect the contents against moisture. These envelopes seal closed. They do not have a padded liner and are ideal for mailing clothing and other items that are not fragile.

Outside W x L	Usable W x L	With Tear Strip	Item No.	Pkg. Qty.
6" x 9"	6" x 9"	Yes	**36DZ01**	1000
7½" x 10½"	7½" x 10½"	Yes	**56KJ32**	1000
9" x 12"	9" x 12"	Yes	**36DY89**	500
10" x 13"	10" x 13"	Yes	**36DZ13**	500
11" x 13"	11" x 13"	Yes	**39UK75**	100
12" x 15½"	12" x 15½"	Yes	**36DZ04**	500
13" x 16"	13" x 16"	Yes	**39UL13**	100
14½" x 19"	14½" x 19"	No	**36DZ09**	250
19" x 24"	19" x 24"	No	**36DZ21**	125
20" x 20"	20" x 24"	Yes	**39UK68**	100
24" x 24"	24" x 24"	Yes	**56KJ38**	125

B O X Partners

Advanced Packaging Solutions

Kraft

White

Stayflat Self-Sealing Chipboard Mailers

Self-sealing chipboard mailers have a flap with an adhesive strip that seals the mailer. To open, pull the strip that tears open the mailer. They are stiff and prevent the contents from folding or bending during shipment and are ideal for shipping flat items such as photos.

			KRAFT			WHITE		
Usable W x L	With Tear Strip	Pkg. Qty.	Material Thickness	Brand	Item No.	Material Thickness	Brand	Item No.
5⅛" x 5⅝"	Yes	200	—	—	—	0.02"	—	**5KMD2**
6" x 6"	Yes	200	0.028"	—	**5KMC1**	0.02"	Stayflats	**56JJ64**
6" x 8"	Yes	100	0.028"	—	**5KMC2**	0.02"	Stayflats	**56JJ65**
7" x 9"	Yes	100	0.028"	—	**5KMC3**	0.02"	Stayflats	**56JJ66**
9" x 11"	Yes	100	—	—	—	0.02"	Stayflats	**56JJ67**
9" x 11½"	Yes	100	0.028"	—	**5KMC4**	—	—	—
9" x 12"	Yes	100	—	—	—	0.02"	Stayflats	**56JJ68**
9¾" x 12½"	Yes	100	0.028"	—	**5KMC5**	—	—	—
11" x 13½"	Yes	100	0.028"	—	**5KMC6**	0.028"	—	**5KMD9**
12" x 13"	Yes	100	—	—	—	0.02"	Stayflats	**56JJ69**
12" x 15"	Yes	100	—	—	—	0.02"	Stayflats	**56JJ70**
12½" x 15"	No	100	0.028"	Pactiv	**4TU87**	—	—	—
12¾" x 15"	Yes	100	0.028"	—	**5KMC7**	—	—	—
13" x 18"	Yes	100	0.028"	—	**5KMC8**	0.02"	Stayflats	**56JJ71**
13½" x 11"	Yes	200	—	—	—	0.018"	—	**5KMF3**
17" x 21"	Yes	100	0.028"	—	**5KMC9**	0.02"	Stayflats	**56JJ72**
18" x 24"	Yes	50	0.028"	—	**5KMD0**	0.02"	Stayflats	**56JJ73**
20" x 27"	Yes	50	—	—	—	0.02"	Stayflats	**56JJ74**
22" x 27"	Yes	50	—	—	—	0.02"	Stayflats	**56JJ75**

Recycled Padded Mailers

Kraft

- Recycled macerated padding material

Mailers contain shredded paper in the lining of the envelope that cushions the contents. These mailers protect small items from damage during shipment, and are recyclable once used.

Outside W x L	Usable W x L	Mailer Number	Item No.	Pkg. Qty.
Kraft				
6" x 10"	5¾" x 8½"	#0	**56LR97**	250
7¼" x 12"	7" x 10½"	#1	**56LR98**	100
8½" x 12"	8¼" x 10½"	#2	**56LR99**	100
8½" x 14½"	8¼" x 13"	#3	**56LT01**	100
9½" x 14½"	9¼" x 13"	#4	**56LT02**	100
White				
6" x 10"	5¾" x 8½"	#0	**56LT06**	250
7¼" x 12"	7" x 10½"	#1	**56LT07**	100
8½" x 12"	8¼" x 10½"	#2	**56LT08**	100
8½" x 14½"	8¼" x 13"	#3	**56LT09**	100
9½" x 14½"	9¼" x 13"	#4	**56LT10**	100
10½" x 16"	10½" x 14½"	#5	**56LT11**	100
12½" x 19"	12¼" x 17½"	#6	**56LT12**	50
14¼" x 20"	14" x 18½"	#7	**56LT13**	50

Kraft

White

B O X Partners

Stayflat Tab-Locking Chipboard Mailers

Tab-locking chipboard mailers have a tabbed flap that folds over the opening. The tabs lock into slots to close the mailer. The tabs allow the mailer to be opened and reclosed, making the mailer reusable. Stiff paper prevents contents from folding or bending during shipment and are ideal for shipping flat items such as photos.

			KRAFT		WHITE		
Outside W	Outside L	Pkg. Qty.	Material Thickness	Item No.	Material Thickness	Brand	Item No.
6"	6"	200	—	—	0.028"	Stayflats	**56JJ52**
6"	8"	100	0.036"	**5HZY7**	0.028"	Stayflats	**56JJ53**
7"	9"	100	—	—	0.028"	Stayflats	**56JJ54**
9"	11½"	100	0.036"	**5HZY8**	0.028"	Stayflats	**56JJ55**
9¾"	12¼"	100	0.036"	**5HZY9**	0.028"	Stayflats	**56JJ56**
11"	13½"	100	0.036"	**5HZZ0**	0.028"	Stayflats	**56JJ57**
11"	16"	100	0.036"	**5HZZ2**	—	—	—
12¾"	15"	100	0.036"	**5HZZ1**	0.028"	Stayflats	**56JJ58**
13"	18"	100	—	—	0.028"	Stayflats	**56JJ59**
17"	21"	50	0.036"	**5HZZ4**	—	—	—
17"	21"	100	—	—	0.028"	Stayflats	**56JJ60**
18"	24"	50	0.036"	**5HZZ5**	0.028"	Stayflats	**56JJ61**
20"	27"	50	0.036"	**5HZZ6**	0.028"	Stayflats	**56JJ62**
22"	27"	50	0.036"	**5HZZ7**	0.028"	Stayflats	**56JJ63**

Sealed Air®

Jiffy Rigi Self-Sealing Fiberboard Mailers

Kraft color chipboard flat mailers are made of stiff, thick paper, and they prevent the envelope contents from folding or bending during transit. Feature a self-seal flap. Insert contents and fold over to seal. To open, tear strip. They are ideal for shipping flat items that must not bend, such as photos.

Outside W x L	Usable W x L	Mailer Number	Item No.	Pkg. Qty.
7¼" x 10½"	7 ⅛ in x 10 ¼ in	#1	**56LT19**	250
8½" x 10½"	8 ⅜ in x 10 ¼ in	#2	**56LT20**	250
8½" x 13"	8 ⅜ in x 12 ¾ in	#3	**56LT21**	200
9½" x 13"	9 ⅜ in x 12 ¾ in	#4	**56LT22**	200
10½" x 14"	10 ⅜ in x 13 ¾ in	#5	**56LT23**	150
12½" x 15"	12 ⅜ in x 14 ¾ in	#6	**56LT24**	100
14¼" x 18½"	14 ¼ in x 18 ½ in	#7	**56LT25**	75

Stencil Roller
29WN99

Stencil Roller
Handle
29WP01

Stencil Roller
Replacement Head
5A143

Stencil Brush
5A134

Foam Roller
Handle
32UR96

Replacement
Fountain Brush Tip
5A142

MARSH
Marsh Shipping Supply Co., LLC

Stencil Rollers

These rollers are used to apply roll-on inks to shipping stencils and transfer a message from the stencil to a shipping container or product.

Stencil Rollers—Shipping stencil rollers come with replaceable handle and head.

Stencil Brush—A valve dispenses compatible Rolmark and K-1 ink into hog hair brush bristles. The protective cover prevents drying when not in use.

Foam Roller with Handle—Economical stenciling system uses Rolmark ink on porous and nonporous surfaces for occasional stenciling.

Replacement Fountain Brush Tip—Replacement tip with hog hair bristles is for stencil fountain brush 5A134.

Overall Length	Handle Length	Replacement Head Material	Replacement Head Diameter	Handle Material	Mfr. Model	Item No.
Stencil Rollers						
3 7⁄64 in	—	Neoprene	2 in	—	RM10-30F	**29WN99**
4 ¼ in	—	Neoprene	2 in	—	33575	**4HY28**
8 ½ in	5 in	Neoprene	2 in	Aluminum	RFR200-30	**5A131**
8 ½ in	5 in	Neoprene	2 in	Aluminum	FR100-30	**5A135**
Stencil Roller Handle						
6 in	4 in	Neoprene	2 in	Plastic	RM15-30	**29WP01**
Stencil Roller Replacement Head						
3 7⁄64 in	—	Neoprene	2 in	—	30866	**5A143**
Stencil Brush						
8 13⁄64 in	5 in	Hog Hair Brush	2 in	Aluminum	30322	**5A134**

For Use With	Mfr. Model	Item No.
Foam Roller with Handle		
RM50	RM20-30	**32UR96**
Foam Ink Pad		
RM20-30	RM-50	**32UR93**
Replacement Fountain Brush Tip, Includes Polypropylene Cap		
Mfr.No. 30322	30142	**5A142**

36XE28

1F151

4HY29

MARSH
Marsh Shipping Supply Co., LLC
Sprayon
AERVOE

Stencil Ink

Shipping stencil inks are applied to shipping stencils to transfer the message from the stencil to a shipping container or product.

Spray Cans—Aerosol cans are used to spray ink onto a shipping stencil. This is a faster way to apply ink than rolling it on.

Roller Inks—Water-resistant ink is rolled onto a shipping stencil with a compatible ink roller.

Roller Ink Cartridges—These cartridges screw into express roller 4HY28 sold on this page.

Color	Stencil Ink Container Type	Container Size	Resistance Properties	Brand	Mfr. Model	Item No.	Pkg. Qty.
Stencil Ink Spray Cans							
Black	Aerosol Can	11 oz	Water Resistant	Marsh	30395	**5XT13**	1
Dark Blue	Aerosol Can	12 oz	Waterproof, Weather Resistant	Sprayon	S03109000	**1HGE2**	1
Orange	Aerosol Can	12 oz	Waterproof	Aervoe	2805	**36XE31**	1
Red	Aerosol Can	12 oz	Waterproof	Aervoe	2801	**36XE28**	1
Tan	Aerosol Can	12 oz	Waterproof, Weather Resistant	Sprayon	SC3119000	**6KDU1**	1
White	Aerosol Can	11 oz	Water Resistant	Marsh	30400	**5XT14**	1
White	Aerosol Can	12 oz	Waterproof	Aervoe	2807	**36XE33**	1
Yellow	Aerosol Can	12 oz	Waterproof	Aervoe	2802	**36XE29**	1
Stencil Roller Inks							
Black	Jug	1 qt	Water Resistant	Marsh	20903	**5A132**	1
Black	Jug	1 qt	Water Resistant	Marsh	K-BK-Q	**5A136**	1
Black	Bottle	1 qt	Water Resistant	Marsh	70903	**6YLT8**	1
Clear	Jug	1 qt	Water Resistant	Marsh	RMS-Q	**5A133**	1
Red	Jug	1 qt	Water Resistant	Marsh	20909	**1F152**	1
White	Jug	1 qt	Water Resistant	Marsh	20923	**1F151**	1
Yellow	Jug	1 qt	Water Resistant	Marsh	20926	**1F153**	1
Stencil Roller Ink Cartridges							
Black	Bottle	4 oz	Water Resistant	Marsh	33564	**4HY29**	8
White	Bottle	4 oz	Water Resistant	Marsh	33565	**4HY30**	8

MARSH
Marsh Shipping Supply Co., LLC

Stencil Cutting Machines and Oil Boards

4W224 w/Oil Board
(Sold Separately)

Stencil Cutting Machines—Punch out letters and numbers on oil boards to create custom stencils for marking shipping containers with messages, warnings, and handling instructions. Compatible with individual shipping stencil oil boards. Not compatible with shipping stencil oil board rolls.

Stencil Oil Boards—Individual rectangular sheets of material are used with cutting machines to create custom stencils. After the machine punches the message into the board, ink is applied to paint the message onto a container or product. Boards are made from materials that resist ink bleedthrough, which helps ensure crisp, readable messages. They can be used on flat or curved surfaces.

Character Size	Characters per Foot	Lines per Board	Item No.
Stencil Cutting Machines			
½ in	24	6	**48RD15**
¾ in	16	4	**1F150**
1 in	13	4	**4W224**

Color	Overall Width	Overall Length	Thickness	Item No.
Stencil Oil Boards				
Brown	6 in	20 in	0.015 in	**52KE45**
Brown	6 in	24 in	0.015 in	**52KE44**
Brown	6 ½ in	24 in	0.015 in	**52KE47**
Brown	7 in	20 in	0.015 in	**52KE46**
Yellow	6 in	20 in	0.015 in	**48RD17**
Yellow	6 ½ in	24 in	0.015 in	**52JH80**
Yellow	7 in	20 in	0.015 in	**52JH81**
Yellow	7 in	24 in	0.015 in	**48RD16**

29PH40

29PH41

29PH38

Scotch 3M

General-Purpose Pre-Printed Packing List Envelopes

A message on the front of the envelope identifies the contents within. Adhesive-backed plastic pouches are stuck to the outside of a package to hold shipping documents.They ensure invoices, packing lists, and safety data sheets are visible and reduce the risk of them getting damaged, lost, or thrown out. Use on boxes, cartons, mailers, tubes, and large envelopes.

Message	Outside H	Outside L	Color	Message Location	Brand	Item No.	Pkg. Qty.
Side Loading							
Invoice Enclosed	4 ½ in	5 ½ in	Orange	Centered	—	**29PH40**	250
	4 ½ in	6 in	Red	Top	—	**29PH41**	250
	5 ½ in	10 in	Orange	Top	—	**29PH42**	250
Packing List/Invoice Enclosed	4 ½ in	5 ½ in	Orange	Top	—	**29PH30**	250
	4 ½ in	5 ½ in	Orange	Centered	—	**29PH29**	250
Packing List Enclosed	4 ½ in	5 ½ in	Orange	Top	—	**29PH32**	250
	4 ½ in	5 ½ in	Orange	Centered	—	**29PH33**	250
	4 ½ in	6 in	Red	Top	—	**29PH31**	250
	4 ½ in	6 in	Orange	Centered	—	**29PH36**	250
	5 in	6 in	Clear	Bottom, Top	Scotch	**5A146**	1000
	5 ½ in	10 in	Orange	Top	—	**29PH37**	250
	7 in	5 ½ in	Green	Top	—	**39UK94**	1000
Top Loading							
Documents Enclosed	5 in	6 in	Clear	Centered	Scotch	**2A668**	500
	6 in	10 in	Clear	Centered	Scotch	**3KT65**	1000
Documents Enclosed/ Documentos Adjuntos	5 in	6 in	Clear	Centered	Scotch	**53JV04**	6000
	6 in	8 in	Clear	Centered	3M	**53JV06**	4000
	6 in	10 in	Clear	Centered	3M	**53JV03**	4000
Invoice Enclosed	5 ½ in	7 in	Orange	Top	—	**29PH39**	250
Material Safety Data Enclosed	5 ½ in	7 in	Orange	Centered	—	**29PH38**	250
Packing List Enclosed	5 ½ in	7 in	Orange	Top	—	**29PH34**	250
	5 ½ in	7 in	Orange	Centered	—	**29PH35**	250

29PH47

19NY33

Blank Packing List Envelopes

These envelopes have an adhesive backing and can be stuck to the outside of a package to hold shipping documents.This reduces the risk of the documents getting damaged, lost, or thrown out. Use on boxes, cartons, mailers, tubes, and large envelopes.

Outside H	Outside L	Color	Item No.	Pkg. Qty.
Side Loading				
4 ½ in	5 ½ in	Clear	**29PH44**	250
4 ½ in	6 in	Clear	**29PH43**	250
4 in	8 in	Clear	**29PH47**	250
4 ⅜ in	9 in	Clear	**29PH46**	250
5 ½ in	7 in	Clear	**29PH45**	250
5 ½ in	10 in	Clear	**29PH52**	250
5 ½ in	10 in	Clear	**2JFH3**	1000
6 ¾ in	10 ¾ in	Red	**29PH51**	250
7 in	10 in	Clear	**29PH53**	250
8 ½ in	11 ½ in	Clear	**29PH50**	250
9 ½ in	12 in	Clear	**29PH49**	250
9 ½ in	12 ½ in	Clear	**29PH48**	250
Top Loading				
9 ½ in	9 ½ in	White	**19NY34**	25
13 in	13 in	White	**19NY33**	25

Scotch

2A672

Pouch Tape Dispensers

Pull/Cut Dispenser secures to a table or wall the for easy dispensing of pouch tape. 3" core. Tape Dispenser has adjustable feature that allows use of tape pouches and protection labels in lengths from 5" up to 12". Can be tabletop-mounted or used as a portable dispenser for versatility.

53JV08

For Use With	Max. Tape Width	H	L	Item No.
Pouch Tape Dispenser				
Self Adhesive Tapes	5 in	7 ¼ in	5 in	**2A672**
Tabletop Tape Dispenser				
Pouch and Label Protection Tape	6 in	8 ½ in	7 ⅜ in	**53JV08**

1HAA9

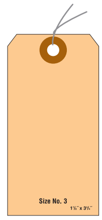
1HAB5

Inspection Tags

- Pkg. of 1000

These paper tags inform employees when equipment has been inspected and is in safe condition to operate. They improve equipment tracking and management. All tags include a 12" wire and fiber-reinforced patch to prevent ripping.

Legend	Color	Item No.
Inspection Tags, 4 ¾ inH x 2 ⅜ inW		
Accepted	Green	**1HAA9**
Inspected	Yellow	**1HAB4**
Rejected	Red	**1HAB2**
Repairable	Yellow	**1HAB1**
Scrap	Red	**1HAB3**
Inspection Tags, 6 ¼ inH x 3 ⅛ inW		
Caution	Yellow	**1HAB5**
Danger	White	**1HAB8**
Danger/Do Not Operate	White	**1HAB9**
Inspection Log	White	**1HAC3**
Inspection Record	White	**1HAC1**
Maintenance Log	Yellow	**1HAC2**
Notice	White	**1HAB7**


1GYN7

1GZL7

BRADY®

Blank Shipping Tags

- Pkg. of 1000

Paper tags can be attached to products that a label will not fit on, such as brooms. There is space for users to write or print information such as shipping addresses, product IDs, inventory tallies, and instructional messages like "hold for inspection" or "priority shipment." All tags include a 12" wire and fiber-reinforced patch to prevent ripping.

Tag Number	Tag Height	Tag Width	Card Stock Gauge	Item No.
Manila				
#2	3¼"	1⅝"	13 Points	**1GYN6**
#3	3¾"	1⅞"	13 Points	**1GYN7**
#5	4¾"	2⅜"	13 Points	**1GYN9**
#6	5¼"	2⅝"	13 Points	**1GYR1**
#7	5¾"	2⅞"	13 Points	**1GYR2**
#8	6¼"	3⅛"	13 Points	**4X886**
White				
#1	5¼"	2⅝"	13 Points	**1HAA7**
#2	3¼"	1⅝"	13 Points	**1HAC6**
#7	5¾"	2⅞"	30 Points	**35RZ52** *
#8	6¼"	3⅛"	13 Points	**1HAA8**

Tag Color	Card Stock Gauge	Item No.
Colored		
Tag #1, 2 ¾ inH x 1 ⅜ inW		
Blue	13 Points	**4WKY6**
Fluorescent Green		**4WLA4**
Fluorescent Pink		**4WLA8**
Fluorescent Red		**4WKZ5**
Fluorescent Yellow		**4WKZ9**
Green		**4WKX7**
Orange		**4WKZ1**
White		**4WKY2**
Tag #2, 3 ¼ inH x 1 ⅝ inW		
Blue	13 Points	**1GYX3**
Fluorescent Green		**1GZL7**
Fluorescent Red		**1GYY9**
Fluorescent Yellow		**1GYZ8**
Green		**1GYU5**
Orange		**1GYY2**
Red		**1GYR3**
Yellow		**1GYT2**
Tag #3, 3 ¾ inH x 1 ⅞ inW		
Blue	13 Points	**4WKY7**
Fluorescent Green		**4WLA5**
Fluorescent Pink		**4WLA9**
Fluorescent Red		**4WKZ6**
Fluorescent Yellow		**4WLA1**
Green		**4WKX8**
Tag #4, 4 ¼ inH x 2 ⅛ inW		
Blue	13 Points	**1GYX5**
Fluorescent Green		**1GZL8**
Fluorescent Pink		**1HAA3**
Fluorescent Red		**1GYZ2**
Fluorescent Yellow		**1GZL1**
Green		**1GYU7**
Orange		**1GYY3**
Red		**1GYR5**
White	—	**1HAA6**
Yellow	13 Points	**1GYT5**
Tag #5, 4 ¾ inH x 2 ⅜ inW		
Fluorescent Green	13 Points	**4WLA6**
Fluorescent Pink		**4WLC1**
Fluorescent Yellow		**4WLA2**
Green		**4WKX9**
Orange		**4WKZ3**
Red		**4WKX1**
White		**4WKY4**
Yellow		**4WKX5**
Tag #6, 2 ¾ inH x 1 ⅜ inW		
White	30 Points	**4WLC3**
Tag #6, 5 ¼ inH x 2 ⅝ inW		
Blue	13 Points	**1GYX7**
Fluorescent Green		**1GZL9**
Fluorescent Pink		**1HAA4**
Fluorescent Red		**1GYZ4**
Fluorescent Yellow		**1GZL3**
Green		**1GYU9**
Orange		**1GYY5**
Red		**1GYR7**
White		**1GYV8**
Yellow		**1GYT8**
Tag #7, 5 ¾ inH x 2 ⅞ inW		
Fluorescent Red	30 Points	**32MJ43** *
Tag #8, 6 ¼ inH x 3 ⅛ inW		
Blue	13 Points	**1GYX9**
Fluorescent Green		**1HAA1**
Fluorescent Pink		**1HAA5**
Fluorescent Red		**1GYZ6**
Fluorescent Yellow		**1GZL5**
Green		**1GYV2**
Orange		**1GYY7**
Red		**1GYR9**
White		**1GYX1**
Yellow		**1GYU2**

*** Brady brand.***

F8572

D6074

D6075

Inventory Control Labels

- Roll of 1000
- 3" core

Pressure-sensitive paper labels identify the status of supplies for storing, routing, and tracking. Labels with legend are 2" x 2" dia.

H	W	Shape	▶CHOOSE: Color	Item No.
Legend - Blank				
3 in	2 in	Rectangle	Green, Orange, Pink, Red, Yellow	**F8572**
3 in	4 in	Rectangle		**F8571**
1 in	1 in	Circle		**F8588**

Legend	▶CHOOSE: Color	Item No.
With Legend		
Counted	Green, Orange, Pink, Yellow	**D6074**
Inspected	Green, Orange, Pink, Red, Yellow	**D6075**
Rejected		**D6076**
Return to Stock		**D6077**
Use First		**D6073**

Instructional Handling Labels

Communicate information on how to handle shipments, how to open shipments, what's inside shipments, and where the shipments are coming from. Labels are applied to boxes, mailers, crates, drums, etc. For more instructional handling labels, see Grainger.com.

16U961

16U960

Message	Label Width	Label Height	Back-ground Color*	Material	Labels per Roll 50 Item No.	Labels per Roll 500 Item No.
Shipping Arrows						
Arrow (Image Only)						
Arrows (This Side Up)	4"	6"	W	Paper	—	3WRX7
Up Arrow	3"	4"	W	Adhesive Back, Paper	16V040	16U849
Arrows with Message						
This End Up	2"	3"	W	Adhesive Back, Paper	16V033	16U862
This End Up	4"	8"	W	Adhesive Back, Paper	16V034	16U861
Arrow with Multiple Messages						
This End Up, Comply w/Spec.	4"	8"	W	Adhesive Back, Paper	16V036	16U860
Care Instruction						
Do Not						
Do Not Accept, Is Damaged	5"	3"	G	Adhesive Back, Paper	16U961	16U885
Do Not Break Down Skid	5"	3"	R	Adhesive Back, Paper	16U962	16U805
Do Not Drop	3"	2"	W	Adhesive Back, Paper	16U964	16U873
Do Not Forklift	5"	3"	R	Adhesive Back, Paper	16U966	16U833
Do Not Freeze	3"	4"	W	Adhesive Back, Paper	16U967	16U808
Do Not Ship	5"	3"	G	Adhesive Back, Paper	16U968	16U884
Do Not Stack	3"	4"	R	Paper	—	3WRZ1
Do Not Stack	3"	4"	W	Adhesive Back, Paper	16U969	16U850
Do Not Stack	3"	4"	W	Paper	—	3WRX9
Do Not Use Blades To Open	3"	4"	W	Adhesive Back, Paper	16U974	16U857
Hold, Do Not Ship	5"	3"	G	Adhesive Back, Paper	16V001	16U883
Refrigerate Do Not Freeze	3"	4"	W	Adhesive Back, Paper	16V030	16U853
Fragile						
Delicate Instruments, Fragile	5"	3"	W	Adhesive Back, Paper	16U960	16U870
Fragile	3"	4"	R	Paper	—	3WRZ5
Fragile, 4 Square	4"	4"	W	Adhesive Back, Paper	—	16U881
Fragile, Broken Glass	3"	4"	W	Adhesive Back, Paper	16U993	16U790
Fragile, Electronic Equipment	5"	3"	Y	Adhesive Back, Paper	16U983	16U792
Fragile, Liquid	3"	2"	W	Adhesive Back, Paper	16U986	16U879
Fragile, Liquid	5"	3"	W	Adhesive Back, Paper	16U987	16U878
Fragile, Thank You	3"	2"	W	Adhesive Back, Paper	16U988	16U907
Fragile, Thank You	5"	3"	W	Adhesive Back, Paper	16U989	16U863
Fragile, This Side Up	3"	2"	W	Adhesive Back, Paper	16U991	16U869
Fragile, This Side Up	5"	3"	W	Adhesive Back, Paper	16U990	—
Keep Dry, Fragile, Up	3"	4"	W	Adhesive Back, Paper	16V006	16U859
Handle with Care						
Delicate Instr., Handle With Care	3"	2"	W	Adhesive Back, Paper	16U956	16U877
Fragile, Handle With Care	3"	2"	W	Adhesive Back, Paper	16U984	16U866
Glass, Handle With Care	3"	2"	W	Adhesive Back, Paper	16U995	16U864
Glass, Handle With Care	5"	3"	W	Adhesive Back, Paper	16U996	16U865
Handle With Care	3"	4"	W	Adhesive Back, Paper	16U997	16U791
This Side Up	3¼"	1⅛"	R	Paper	—	8UR35
This Side Up	5"	3"	W	Adhesive Back, Paper	—	16U789

**W=White. G=Green. R=Red. Y=Yellow. O-Orange.*

Message	Label Width	Label Height	Back-ground Color*	Material	Labels per Roll 50 Item No.	Labels per Roll 500 Item No.
Inspection						
Skid__ Of__	5"	3"	G	Adhesive Back, Paper	16V031	—
Opening Instructions						
Open This End	5"	3"	Y	Adhesive Back, Paper	16V018	16U832
Special Instructions						
Electronic Material, Don't Drop	3"	2"	W	Adhesive Back, Paper	16U976	16U875
Heavy	8"	2"	Y	Adhesive Back, Paper	—	16U811
No Top Freight	5"	3"	Y	Adhesive Back, Paper	16V017	16U899
Perishable	3"	4"	W	Adhesive Back, Paper	—	16U851
Time Sensitive						
Rush	3"	3"	R	Paper	—	9WD25
Shipping Contents						
Climate						
Keep Away from Heat	3½"	5"	W	Paper	—	33W825
Keep Frozen	3"	4"	R	Paper	—	3WRZ3
Keep Frozen	3"	4"	W	Paper	—	3WRY4
Protect From Heat	3"	4"	W	Adhesive Back, Paper	—	16U856
Protect From Heat	3"	4"	W	Paper	—	3WRX5
Enclosed Documents						
Instructions Enclosed	5"	3"	Y	Adhesive Back, Paper	16V004	—
Packing List Enclosed	5"	3"	R	Adhesive Back, Paper	16V022	16U831
Interior Components						
Delicate Instruments	3"	2"	R	Adhesive Back, Paper	16U958	16U788
Glass	4"	4"	W	Adhesive Back, Paper	—	16U880
Mixed Carton	3"	2"	G	Adhesive Back, Paper	16V009	16U888
Mixed Merch., Check Contents	5"	3"	R	Adhesive Back, Paper	16V011	16U891
Mixed Pallet	5"	3"	Y	Adhesive Back, Paper	16V012	16U886
Partial Case	5"	3"	G	Adhesive Back, Paper	16V024	16U901
Small Parts Enclosed	5"	3"	G	Adhesive Back, Paper	16V032	16U797
Time Sensitive						
Perishable	3"	4"	W	Paper	—	3WRY2
Receiving						
Inspection						
Attention____	8"	3"	O	Adhesive Back, Paper	16U950	16U803
Box__Of__	5"	3"	R	Adhesive Back, Paper	16U951	16U794
Inspected By___	5"	3"	R	Adhesive Back, Paper	16V003	16U802
Must Ship Today	5"	3"	R	Adhesive Back, Paper	16V016	16U806
Ready to Ship	5"	3"	Y	Adhesive Back, Paper	16V029	16U902
Skid__ Of__	5"	3"	G	Adhesive Back, Paper	—	16U795
Country of Origin						
USA						
Made in USA	1"	1"	W	Adhesive Back, Paper	16V008	16U804

Thermal Transfer Labels

Blank paper labels require a ribbon to produce crisp images that will last longer than direct thermal label images. An adhesive backing allows the labels to stick to shipping containers. A thermal barcode label printer is used to customize the labels with print addresses, barcodes, and company logos. **Thermal transfer label rolls** save time because they contain more labels than a fanfold. **Fanfold labels** consist of multiple labels that are folded into a stack. **Colored labels** can be used for color-coding shipments, shipping locations, and products.

22D090

Label Width	Label Height	Label Color	Core Dia.	Label Material	Labels per Roll	Rolls per Case	Item No.
Thermal Transfer Label Rolls-Ribbon Required							
3 in	5 in	White	3 in	Thermal Transfer Paper	1,200	8	22D090
4 in	2 in	White	3 in	Direct Thermal Paper	3,000	4	22D104
4 in	2 in	White	3 in	Thermal Transfer Paper	3,000	4	22D091
4 in	3 in	White	3 in	Direct Thermal Paper	2,000	4	22D105
4 in	3 in	White	3 in	Thermal Transfer Paper	2,000	4	22D092
4 in	4 in	White	3 in	Thermal Transfer Paper	1,500	4	22D093
4 in	6 in	White	1 in	Direct Thermal Paper	250	16	22D109
4 in	6 in	White	3 in	Direct Thermal Paper	1,000	4	22D107
Fanfold Thermal Transfer Labels - Ribbon Required							
4 in	2 in	White	—	Thermal Transfer Paper	5,000	2	22D097
4 in	6 in	White	—	Thermal Transfer Paper	2,500	2	22D101
Colored Thermal Transfer Label Rolls-Ribbon Required							
4 in	6 in	Green	3 in	—	1,000	4	35YP21
4 in	6 in	Orange	3 in	—	1,000	4	35YP18
4 in	6 in	Yellow	3 in	—	1,000	4	35YP17

35YP26

Thermal Transfer Ribbons

Use with thermal barcode label printers to print information on thermal transfer labels. The ribbons contain ink that is absorbed into the label material to form a crisp image during printing. **Wax ribbons** create smudge-resistant images. They are suitable for labels that will be used in indoor environments. **Wax/Resin** and **Resin ribbons** resist smudges and scratches and can be used in indoor and outdoor environments. Wax/Resin ribbons may be exposed to light or moderate abrasion. Resin ribbons may be exposed to heat, heavy abrasion, greases, oils, and harsh chemicals.

Compatible Printer Brand	Ribbon Width	Ribbon Length	Color	Core Dia.	Rolls per Case	Item No.
Wax Thermal Transfer Ribbons						
Intermec	4.09	508 ft	Black	1 in	6	35YP31
Intermec	4.09	1,499 ft	Black	1 in	6	35YP32
Zebra	2.38	1,476 ft	Black	1 in	6	35YP26
Zebra	4.03	1,476 ft	Black	1 in	6	35YP28
Zebra	4.34	1,476 ft	Black	1 in	6	35YP29
Zebra	5.98	1,476 ft	Black	1 in	6	35YP30
Wax/Resin Thermal Transfer Ribbons						
Intermec	4.09	508 ft	Black	1 in	6	35YP38
Zebra	4.03	1,476 ft	Black	1 in	6	35YP35
Zebra	4.34	1,476 ft	Black	1 in	6	35YP36
Resin Thermal Transfer Ribbons						
Zebra	2.38	1,476 ft	Black	1 in	6	35YP39
Zebra	3.16	1,476 ft	Black	1 in	6	35YP40
Zebra	4.34	1,476 ft	Black	1 in	6	35YP41

Desktop
60DZ98

Industrial
60DZ09

Mobile
60EA63

ZEBRA TECHNOLOGIES

Barcode Label Printers

Label printers use heat to print barcodes and other useful information on direct transfer or thermal transfer labels. They let users create custom labels with barcodes, addresses, company logos, and other information for shipping, tracking, inventory, product identification, and barcode pricing applications.

DESKTOP BARCODE LABEL PRINTERS

ZD420 Series—Uses both standard ribbon and cartridge. It alerts the user when a ribbon needs replacing. **ZD620 Series—**Features a three-button interface with five LED status icons or an optional 10-button interface with color LCD display.

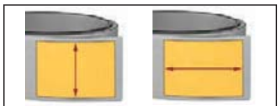
INDUSTRIAL BARCODE LABEL PRINTERS

ZT411 Series—Printer performs both thermal transfer and direct thermal printing. It has a side-loading metal print mechanism and toolless printhead replacement. Metal media cover has enlarged clear viewing window. A bi-fold media door decreases overall operating space. **ZT510 Series—**Features a customizable, back-lit multiline graphic LCD display with intuitive menu and keypad for quick operation. It is capable of thermal transfer and direct thermal printing.

MOBILE BARCODE PRINTERS

ZQ320 Series—3" printer for labels, receipts or both. It has scuff-resistant, durable housing that can withstand outdoor elements. Printer uptime is improved with monitoring and troubleshooting capability in real-time from a remote central location. **ZQ510 Series—**Used for 3" receipt printing and has military-grade durability to withstand significant drops to concrete, sprayed liquids, and dirt. It has large buttons and a user-friendly interface for easy operation, even when wearing gloves. **ZQ630 Series—**Features radio-frequency identification (RFID) technology and large color graphics display. Wake-up feature allows the printer to enter sleep mode when idle and wake up when the user presses the print button. Roaming technology ensures that there is always a dependable internet connection.

Max. Print Width	Printer Resolution	Print Speed	Dispensing Style	Wire Communication	Item No.
Desktop Label Printers					
ZD420					
4.09 in	203 dpi	6 in/sec	Tear Off	Wired	**60EA25**
ZD620					
4.09 in	203 dpi	8 in/sec	Cutter	Wired	**60EA03**
	203 dpi	8 in/sec	Tear Off	Wired	**60DZ98**
	203 dpi	8 in/sec	Tear Off	Wireless (wifi)	**60EA01**
Industrial Label Printers					
ZT411					
4.09 in	300 dpi	14 in/sec	Tear Off	Wired	**60DZ35**
	203 dpi	14 in/sec	Tear Off	Wireless (wifi)	**60DZ29**
ZT510					
4.09 in	203 dpi	12 in/sec	Rewind/Peel Off	Wired	**60DZ12**
	203 dpi	12 in/sec	Tear Off	Wired	**60DZ09**
	203 dpi	12 in/sec	Tear Off	Wireless (wifi)	**60DZ10**
Mobile Label Printers					
ZQ320					
2.83 in	203 dpi	4.0 in/sec	Tear Off	Wireless (wifi)	**60EA67**
ZQ510					
2.83 in	203 dpi	5 in/sec	Tear Off	Bluetooth	**60EA63**
ZQ630 RFID					
4.1 in	203 dpi	4.5 in/sec	Tear Off	Wireless (wifi)	**60EA51**


Label Width Label Height

Damage Indicators

DROP N TELL® SHOCKWATCH® TILTWATCH® XTR

Shock indicators provide clear visual indication if a shipment has been dropped or otherwise exposed to an impact force that exceeds a predetermined level.

Drop N Tell Indicators are self-stick damage indicators that attach to shipping containers. They come with warning labels that are also applied to the shipping container to give clear instructions for receiving the shipment if mishandling has occurred during transportation.

ShockDot Indicators are always activated and include a QR code for traceability.

ShockWatch Indicators can be used with compatible companion labels that are also applied to the shipping container to give clear instructions for receiving the shipment if mishandling has occurred during transportation.

ShockWatch 2 Indicators are field-armable to eliminate activation until impact detection is needed.

ShockWatch Indicator Companion labels are used on shipments that contain ShockWatch brand shock indicators. The labels instruct people how to handle the shipment and receive it if damage is indicated on the ShockWatch indicator. The companion label is placed on the shipping container and then the ShockWatch label is placed over the companion label, as indicated by the illustration on the companion label.

Drop N Tell Indicator

ShockDot Indicator

ShockWatch Indicator

ShockWatch 2 Indicator

ShockWatch Indicator Companion

G-Force Sensitivity	Label Width	Label Height	Language	Resettable Y/N	Brand	Item No.	Pkg. Qty.
Drop N Tell Indicators							
5	27/32"	2"	English	Y	Drop N Tell	**49K918**	25
10	27/32"	2"	English	N	Drop N Tell	**49K925**	25
10	27/32"	2"	English	Y	Drop N Tell	**49K919**	25
15	27/32"	2"	English	N	Drop N Tell	**49K926**	25
15	27/32"	2"	English	Y	Drop N Tell	**49K920**	25
25	27/32"	2"	English	N	Drop N Tell	**49K927**	25
25	27/32"	2"	English	Y	Drop N Tell	**49K921**	25
50	27/32"	2"	English	N	Drop N Tell	**49K928**	25
50	27/32"	2"	English	Y	Drop N Tell	**49K922**	25
100	27/32"	2"	English	N	Drop N Tell	**49K929**	25
100	27/32"	2"	English	Y	Drop N Tell	**49K923**	25
ShockDot Indicators							
37	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF86**	50
50	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF85**	50
75	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF84**	50
100	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF83**	50
ShockWatch Indicators							
25	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF87**	50
25	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF92**	50
37	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF91**	50
50	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF90**	50
75	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF89**	50
100	3 13/16"	3 13/16"	English	N	Shockwatch	**55JF88**	50
ShockWatch 2 Indicators							
5	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF93**	50
10	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF94**	50
15	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF95**	50
25	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF96**	50
37	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF97**	50
50	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF98**	50
75	1 45/64"	1 45/64"	English	N	Shockwatch	**55JF99**	50
ShockWatch Indicator Companions							
—	5 3/4"	4 1/2"	English	N	Shockwatch	**55JG03**	200
—	5 3/4"	8 3/4"	Chinese, English, Japanese, Korean	N	Shockwatch	**55JG08**	200
—	5 3/4"	8 3/4"	Chinese, English, Japanese, Korean	N	Tiltwatch	**55JG12**	200
—	5 3/4"	8 3/4"	English	N	Shockwatch	**55JG04**	200
—	5 3/4"	8 3/4"	English	N	Shockwatch	**55JG05**	500
—	5 3/4"	8 3/4"	English, French, German, Spanish	N	Shockwatch	**55JG06**	200
—	5 3/4"	8 3/4"	English, French, German, Spanish	N	Shockwatch	**55JG07**	500
—	5 3/4"	8 3/4"	English, French, German, Spanish	N	Tiltwatch	**55JG11**	200

Barcode Label Scanners

Scanners read barcodes on labels, and capture address and tracking information on items, process inbound and outbound shipments, price products, and manage inventory. They are used in warehouses, retail stores, e-commerce businesses, shipping and receiving departments, product picking tasks, and healthcare facilities. **Corded Barcode Label Scanners—**Plug into USB outlets. Commonly used at counters at retail stores. **Cordless Barcode Label Scanners—**Portable scanners are powered by batteries. They are suitable for applications where the scanner needs to be used in many different locations. **Industrial Cordless Barcode Label Scanners—**These portable scanners are more rugged than standard cordless barcode scanners. They can withstand more impact from being dropped or knocked around during use and are suitable for freezer applications. They are powered by batteries.

Corded 60EA69

Cordless 60EA86

Industrial Cordless 60EC11

Travel Distance from Base	Max. Scan Distance	Model Number	Weight	Connec. Type	Image Scan Type	Voltage	Item No.
Corded Barcode Label Scanners							
30 in	30 ft	LI2208-SR00006ZZNA	140 g	USB	1D Scanner	5 V	**60EA74**
	30 ft	LI2208-SR00007ZZNA	140 g	USB	1D Scanner	5 V	**60EA75**
—	1 ft	DS2208-SR00006ZZWW	161.6 g	USB, RS232, Keyboard Wedge, TGCS (IBM), 46XX over RS485	1D Scanner, 2D Scanner	4.5 V, 5.5 V	**60EA80**
	1 ft	DS2208-SR7U2100SGW	161.6 g	USB, RS232, Keyboard Wedge, TGCS (IBM), 46XX over RS485	1D Scanner, 2D Scanner	4.5 V, 5.5 V	**60EA85**
	2 ft	LS2208-7AZU0100ZNA	150 g	USB, RS232, Keyboard Wedge, IBM 468x/9x	1D Scanner	5 V	**60EA69**
	2 ft	LS2208-SR20001NA	150 g	USB, RS232, Keyboard Wedge, IBM 468x/9x	1D Scanner	5 V	**60EA70**
	2 ft	LS2208-SR20007R-NA	150 g	USB, RS232, Keyboard Wedge, IBM 468x/9x	1D Scanner	5 V	**60EA73**
Cordless Barcode Label Scanners							
14 in	1 ft	DS2278-SR00006ZZWW	214 g	USB	1D Scanner, 2D Scanner	5 V	**60EA86**
	1 ft	DS2278-SR7UMC00AZW	214 g	USB	1D Scanner, 2D Scanner	5 V	**60EA91**
	1 ft	DS2278-SR00007ZZWW	214 g	USB	1D Scanner, 2D Scanner	5 V	**60EA87**
Industrial Cordless Barcode Label Scanners							
—	—	LI3678-ER2F003VZWW	424 g	USB	1D Scanner	5 V, 12 V	**60EC11**
	—	LI3678-SR0F003VZWW	386.5 g	USB	1D Scanner	5 V, 12 V	**60EC13**

Direct Thermal Labels

Create custom labels with barcodes and other useful information. These blank paper labels do not require a ribbon, ink, or toner for printing. Adhesive backing sticks to surfaces such as packages, shipping containers, and warehouse or retail racks. A compatible thermal barcode label printer is used to print addresses, barcodes, company logos, etc., see page 1379. **Direct Thermal Rolls—**Multiple labels are stored on a roll core. **Colored Direct Thermal Label Rolls—**These labels can be used for color-coding shipments, shipping locations, and products in a container.

Label Width	Label Height	Label Color	Core Dia.	Labels per Roll	Rolls per Case	Brand	Item No.
Direct Thermal Label Rolls							
Printer Compatibility Desk Top Label Printer							
9⁄16"	3 7⁄16"	White	1"	260	1	Dymo	**2XZN5**
3⁄4"	2"	White	1"	500	10	Dymo	**1ZTB9**
1"	2 1⁄8"	White	1"	500	1	Dymo	**2XZN6**
1 1⁄8"	3 1⁄2"	White	1"	260	1	Dymo	**2XZN3**
1 1⁄8"	3 1⁄2"	White	1"	350	10	Dymo	**1ZTB7**
1 25⁄64"	3 1⁄2"	White	1"	260	1	Dymo	**2XZN4**
2 1⁄4"	4"	White	1"	250	1	Dymo	**2XZN8**
2 13⁄32"	1 7⁄64"	White	—	800	1	Brother	**13C564**
3 1⁄2"	1 7⁄64"	White	—	400	1	Brother	**13C558**
3 1⁄2"	1 13⁄32"	White	—	400	1	Brother	**13C563**
3 29⁄32"	2 13⁄32"	White	—	300	1	Brother	**13C559**
4"	2 1⁄8"	White	1"	220	1	Dymo	**23M345**
4"	2 5⁄16"	White	1"	250	1	Dymo	**23M347**
4"	2 5⁄16"	White	1"	300	10	Dymo	**1ZTB8**
6"	4"	White	—	200	1	Brother	**13C569**
6"	4"	White	1"	220	1	Dymo	**23M346**
Printer Compatibility Industrial Label Printer							
2"	1"	White	3"	3,000	4	Avery	**49VT59**
3"	2"	White	3"	1,000	4	Avery	**49VT60**
4"	2"	White	3"	1,000	2	Avery	**49VT61**
4"	3"	White	3"	1,000	2	Avery	**49VT62**
6"	4"	White	3"	1,000	1	Avery	**49VT58**
Colored Direct Thermal Label Rolls							
Printer Compatibility Desk Top Label Printer							
1 1⁄8"	3 1⁄2"	Clear	1"	130	1	Dymo	**23M344**
Printer Compatibility Industrial Label Printer							
3"	2"	Blue	3"	3000	8	—	**60DX42**
3"	2"	Green	3"	3000	8	—	**60DX44**
3"	2"	Orange	3"	3000	8	—	**60DX45**

13C564

23M344

Label Width	Label Height	Label Color	Core Dia.	Labels per Roll	Rolls per Case	Brand	Item No.
3"	2"	Red	3"	3000	8	—	**60DX43**
3"	2"	Yellow	3"	3000	8	—	**60DX41**
3"	5"	Blue	3"	1200	8	—	**60DX47**
3"	5"	Green	3"	1200	8	—	**60DX49**
3"	5"	Orange	3"	1200	8	—	**60DX50**
3"	5"	Red	3"	1200	8	—	**60DX48**
3"	5"	Yellow	3"	1200	8	—	**60DX46**
4"	2"	Blue	3"	3000	4	—	**60DX52**
4"	2"	Green	3"	3000	4	—	**60DX54**
4"	2"	Orange	3"	3000	4	—	**60DX55**
4"	2"	Red	3"	3000	4	—	**60DX53**
4"	2"	Yellow	3"	3000	4	—	**60DX51**

Heat Poly Bag Sealers

Seal parts in plastic bags for shipping, distribution, or storage. Bag sealers use pressure and heat to close poly bags with a watertight, airtight seal. They crimp the top of a bag and apply heat that melts a strip of the bag to close it. **Foot Operated—**These sealers help with floor sealing jobs. **Tabletop Impulse Sealers—**Spot crimp sealing for flat and gusseted poly bags or poly tubing. **Repair Kits—**Include heating element, lower PTFE tape, and upper PTFE fabric.

Max. Seal Length	Max. Seal Width	Max. Seal Thick.	Overall Height	Overall Length	Heat Sealing Type	Includes Cutter	Item No.	REPAIR KITS Item No.
Foot-Operated Sealers								
17 3⁄4"	1⁄8"	7 mil	36 1⁄4"	20 1⁄2"	Impulse	No	**4LT32**	**5ZZ45**
23 5⁄8"	1⁄8"	7 mil	36 1⁄4"	26 3⁄8"	Impulse	No	**5ZZ47**	**5ZZ48**
Tabletop Impulse Sealers								
6"	5⁄8"	7 mil	4"	7 1⁄8"	Direct	No	**13F532**	—
7 7⁄8"	1⁄8"	6 mil	8 1⁄4"	12 1⁄4"	Impulse	No	**4LT36**	**5ZZ56**
11 7⁄8"	1⁄8"	6 mil	8 3⁄4"	18 1⁄8"	Impulse	No	**4LT28**	**5ZZ38**
11 7⁄8"	1⁄8"	6 mil	11"	18 1⁄2"	Impulse	Yes	**5ZZ35**	**2VAE2**
11 7⁄8"	5⁄8"	7 mil	3 1⁄8"	11 7⁄8"	Direct	No	**13F534**	—
15 3⁄4"	1⁄8"	7 mil	10 5⁄8"	21 5⁄8"	Impulse	No	**5ZZ40**	**5ZZ42**
20 1⁄2"	1⁄8"	7 mil	11 7⁄8"	26 3⁄8"	Impulse	No	**2LED7**	**2LEE4**
23 5⁄8"	1⁄8"	7 mil	13"	32 3⁄4"	Impulse	No	**2LED8**	**2LEE5**

4LT32

13F532

5ZZ35

2LED8

Flat, Open-End Poly Bags

- FDA compliant

Clear bags have a sealed bottom with an open top that can be left open, tied with a twist, or sealed with heat or tape. Sold in case packs. For heat impulse sealers, see page 1409.

W	L	Item No.	Pkg. Qty.
Linear Low Density Poly (LLDPE)			
1 mil			
6"	8"	5DRG7	2000
7"	10"	5DRH6	1000
8"	8"	5DRJ1	1000
8"	10"	5DRJ2	1000
9"	12"	9LEN9	1000
9"	15"	8RNN6	1000
10"	12"	8YFW1	1000
10"	18"	5DRK8	1000
10"	20"	5DRK9	1000
11"	18"	5DRL4	1000
12"	12"	5DRL5	1000
12"	13"	5DRL6	1000
12"	16"	5DRL7	1000
12"	20"	5DRL9	1000
14"	20"	9AEJ4	1000
14"	24"	5DRN7	1000
18"	24"	9MD47	1000
22"	36"	5DRT0	500
1.2 mil			
24"	24"	5DRT1	500
32"	50"	5DRU3	250
36"	48"	5DRU4	250
40"	48"	5DRU8	200
1.4 mil			
3"	8"	5CPK6	2000
9"	12"	5CPT6	1250
Low Density Poly (LDPE)			
0.9 mil			
4"	4"	5DRE8	5000
1 mil			
5"	5"	5DRF7	4000
10"	16"	5DFV6	1000
15"	18"	5DRP0	1000
15"	18"	5DFV8	1000
1.5 mil			
2"	3"	5DFX7	10000
3½"	6"	5DFZ2	5000
4"	4"	5DFZ3	5000
4"	8"	5DFZ6	3000
5"	7"	5DGA4	2000
6"	12"	5DGC5	1000
6"	12"	5DTE8	1000
6"	15"	5DTE6	1000
6"	15"	5DTE9	1000
7"	10"	5DGD1	1000
7"	12"	5DGD2	1000
8"	10"	5DGD7	1000
8"	15"	5DTF2	1000
8"	18"	5DTF3	1000
8"	21"	5DTF4	1000
8"	24"	5DTF5	1000
9"	12"	5DGE4	1000
10"	12"	5DGF0	1000
11"	12"	5DGF7	1000
11"	15"	5DGF8	1000
12"	13"	5DGG1	1000

W	L	Item No.	Pkg. Qty.
12"	20"	5DGG5	1000
12"	24"	5DTF9	500
12"	24"	5DTG2	500
15"	24"	5DTG4	500
15"	32"	5DTG5	500
16"	24"	5DTG6	500
16"	36"	5DTG8	250
18"	32"	5DTG9	250
20"	20"	5DGK0	1000
20"	26"	5DTH1	500
20"	30"	5DTH2	250
20"	30"	5DGK2	500
24"	30"	5DGK9	500
24"	48"	5DTH3	200
30"	30"	5DGL6	250
2 mil			
2"	4"	5ZW06	1000
3"	4"	5DGP6	5000
3"	5"	5ZW07	1000
3"	5"	5DGP7	5000
4"	6"	5ZW08	1000
4"	8"	2KMP3	1000
4"	8"	5DGR6	2000
4"	10"	5DTH4	1000
5"	7"	5ZW09	1000
5"	7"	5DGT5	2000
5"	10"	5DGT7	2000
5"	13"	5DTH5	1000
5"	15"	5DGT9	1000
6"	8"	5ZW10	1000
6"	9"	5DGU4	1000
6"	10"	5DGU5	1000
6"	12"	5DGU6	1000
6"	12"	5DTH6	1000
6"	15"	5DGU7	1000
6"	18"	5DTH8	1000
7"	9"	5DGV1	1000
7"	12"	5DGV3	1000
8"	8"	5DGV8	1000
8"	10"	5ZW11	1000
8"	12"	5DGW0	1000
8"	15"	5DGW1	1000
8"	15"	5DTJ0	1000
8"	18"	5ZW18	500
8"	18"	5DGW2	1000
8"	18"	5DTJ1	1000
8"	21"	5DTJ2	1000
9"	12"	5ZW12	1000
10"	10"	5DGW9	1000
10"	12"	5DGX0	1000
10"	14"	5ZW13	1000
10"	16"	5DGX2	1000
10"	18"	5DGX3	1000
10"	24"	5DTJ5	500
12"	12"	5DGX7	1000
12"	15"	5ZW14	500
12"	16"	5DGX8	1000
12"	18"	5ZW15	500

W	L	Item No.	Pkg. Qty.
12"	18"	5DGX9	1000
12"	20"	5DTJ7	500
12"	20"	5DGY0	1000
12"	24"	5DTJ8	500
12"	30"	5DTJ9	500
14"	16"	5DGY4	1000
14"	20"	5DGY5	1000
14"	24"	5DGY6	500
15"	20"	5ZW16	500
15"	24"	5DGY7	500
15"	32"	5DTK0	250
16"	18"	5DGZ0	500
16"	20"	5DGZ1	500
16"	24"	5DGZ2	500
16"	36"	5DTK1	250
18"	24"	5DGZ6	500
18"	36"	5DGZ8	250
18"	40"	5DTK2	250
20"	20"	5DGZ9	500
20"	24"	5DHA0	500
20"	30"	5DTK3	200
20"	30"	5DHA1	500
22"	24"	5DHA3	250
24"	24"	5DHA5	500
24"	30"	5DHA6	500
24"	36"	5DHA7	250
24"	38"	5DHA8	250
24"	48"	5DTK4	100
28"	42"	5DHC4	250
28"	60"	5DTK6	100
30"	60"	5DTK7	100
32"	32"	5DHD0	250
38"	64"	5DHD2	100
44"	48"	5DHD3	100
3 mil			
4"	6"	5DHF0	2000
5"	8"	5DHF8	1000
6"	9"	5DHG4	1000
7"	10"	5DHH0	1000
8"	10"	5DHH3	1000
8"	12"	5DHH4	1000
9"	12"	5DHH7	1000
9"	15"	5DHH8	1000
10"	12"	5DHJ0	1000
12"	12"	5DHJ2	1000
14"	20"	5DHJ7	1000
16"	18"	5DHJ9	500
20"	30"	5DHK2	250
24"	30"	5DHK3	250
24"	36"	5DHK4	250
38"	64"	5DHK6	100
4 mil			
2"	3"	5DHK8	5000
3"	5"	5DHL8	2000
4"	4"	5DHN4	2000
4"	6"	4DKX7	2000
4"	8"	5DHN6	1000
5"	7"	4DKX8	1000

W	L	Item No.	Pkg. Qty.
6"	8"	4DKX9	1000
6"	9"	5DHR0	1000
6"	10"	5DHR1	1000
6"	12"	5DHR2	1000
7"	9"	5DHR6	1000
8"	8"	5DHT2	1000
8"	10"	4DKY1	1000
9"	12"	4DKY2	1000
10"	12"	5DHU2	1000
10"	16"	5DHU3	1000
10"	18"	5DHU4	500
12"	14"	8AYW0	1000
12"	18"	4DKY3	500
12"	24"	5DHV3	500
14"	20"	5DHV6	500
14"	24"	5DHV7	250
15"	24"	9UAV1	250
18"	20"	5DHW8	250
18"	24"	5DHW9	250
20"	24"	5DHX3	250
20"	30"	5DHX4	250
22"	30"	5DHX8	200
24"	24"	9DKG8	250
24"	30"	8ZAD6	200
24"	36"	8AVL9	200
24"	38"	5DHY2	100
24"	42"	5DHY3	200
24"	48"	5DHY4	100
28"	50"	5DHY7	100
30"	36"	8AVM2	100
36"	48"	9M945	100
36"	60"	9HPX6	50
38"	64"	8UR15	50
44"	54"	9U950	50
6 mil			
4"	6"	5DRA8	1000
8"	10"	5DRC3	1000
8"	12"	9K462	1000
9"	12"	5DRC5	1000
12"	18"	5DRC7	500
18"	24"	5DRC8	250
20"	30"	5DRC9	200
30"	40"	5DRD1	100
High Density Poly (HDPE)			
0.5 mil			
18"	30"	4DKV5	1000
20"	24"	4DKV7	1000
0.75 mil			
10"	14"	4DKW1	1000
12"	16"	4DKW2	1000
14"	20"	4DKW4	1000
18"	18"	4DKW5	1000
1 mil			
18"	24"	4DKW6	1000
20"	24"	4DKW9	1000
20"	30"	4DKX1	1000

Gusseted, Open-End Poly Bags

- FDA compliant

Clear bags have a wide bottom that lays flat on surfaces and creased sides that expand to form to the shape of bulky items. Sold in case packs. For heat impulse sealers, see page 1409.

W	L	D	Item No.	Pkg. Qty.
Linear Low Density Poly (LLDPE)				
0.6 mil				
4"	8"	2"	5DRU9	1000
4"	12"	2"	5DRV0	1000
5½"	15"	4¾"	5DRV1	1000
5½"	19"	4¾"	5DRV2	1000
6"	15"	3"	5DRV3	1000
8"	15"	3"	5DRV4	1000
8"	18"	4"	5DRV5	1000
0.75 mil				
4"	8"	2"	5DRV8	1000
4"	12"	2"	5DRV9	1000
5"	13"	3½"	5DRW1	1000
5"	15"	3"	5DRW0	1000
5"	15"	4½"	5DRW4	1000
5"	24"	4"	5DRW3	1000
6"	12"	3"	5DRW8	1000
6"	15"	3½"	5DRX0	1000
8"	12"	4"	5DRX3	1000
8"	15"	3"	5DRX1	1000
8"	15"	5"	5DRX6	1000
8"	18"	4"	5DRX5	1000
10"	20"	4"	5DRX7	1000
0.85 mil				
4"	8"	2"	5DRX8	1000
4"	10"	2"	5DRX9	1000
4"	12"	2"	5DRY0	1000
6"	12"	3"	5DRY1	1000
6"	15"	3"	5DRY2	1000
8"	18"	4"	5DRY6	1000
8"	21"	4"	5DRY7	1000
10"	24"	8"	5DRY8	500
12"	30"	8"	5DRY9	500

W	L	D	Item No.	Pkg. Qty.
Low Density Poly (LDPE)				
0.75 mil				
5½"	16"	4¾"	5DRV6	1000
12"	24"	6"	5DRV7	500
1 mil				
4"	8"	2"	3CTX7	1000
4"	12"	2"	3CTX8	1000
5"	13"	3½"	5DRZ1	1000
5"	18"	4½"	5DRZ5	1000
6"	12"	3"	5DRZ7	1000
6"	15"	3"	3CTY2	1000
6"	15"	3½"	5DRZ8	1000
6"	18"	3½"	5DRZ9	1000
7"	15"	6"	5DTA0	1000
8"	18"	4"	3CTY4	1000
8"	18"	5"	5DTA3	1000
10"	24"	8"	3CTY5	500
12"	30"	8"	3CTY6	500
15"	18"	11"	5DTA7	1000
1.25 mil				
5"	13"	3½"	5DTC1	1000
6"	15"	3½"	5DTC7	1000
8"	15"	3"	5DTC8	1000
8"	18"	4"	5DTD1	1000
12"	24"	6"	5DTD5	500
12"	30"	8"	5DTD6	500
20"	30"	18"	5DTD7	500
20"	31"	18"	5DTD8	250
2 mil				
6"	15"	3"	5ZW17	1000

Poly Tubing and Dispensers

- Clear tubing
- 3" core dia.
- FDA compliant

Standard Poly Tubing—Cut to length for a customizable storage solution. It can be closed with a heat seal, staple, tie, or tape and keeps contents organized and protects them from dirt, dust, and moisture during shipping and storage.

Cleanroom Poly Tubing—Manufactured in a Class 100 cleanroom, where environmental control of particulate and microbial contamination is maintained. Use of Class 100 tubing is required in aseptic manufacturing/packaging environments.

Poly Tubing Dispensers—Mount on a counter, bench, or wall and provide access to poly tubing. The width of the dispenser will determine the roll size that it will house.

Poly Tubing Dispenser 8AYX4

Standard Poly Tubing

W	1.25 mil 3,500 ft Roll Item No.	1.5 mil 2,900 ft Roll Item No.	2 mil 2,150 ft Roll Item No.	3 mil 1,450 ft Roll Item No.	4 mil 1,075 ft Roll Item No.	6 mil 725 ft Roll Item No.
Standard Poly Tubing						
1½"	—	—	5CPX9	5CPY0	5CPY1	—
2"	—	5CPY2	2EWL1	5CPY3	2EWL2	5CPY4
2½"	—	5CPY5	5CPY6	—	5CPY7	—
3"	—	5CPY8	2EWL3	5CPY9	2EWL4	2EWL5
4"	—	5CPZ0	2EWL6	5CPZ1	2EWL7	2EWL8
4½"	—	—	5CPZ2	—	5CPZ3	—
5"	—	5CPZ4	2EWL9	5CPZ5	2EWN1	2EWN2
6"	—	5CPZ6	5ZW51	5CPZ7	2EWN3	2EWN4
7"	—	5CPZ8	2EWN5	5CPZ9	2EWN6	2EWN7
8"	—	5CRA0	2EWN8	5CRA1	5ZW54	2EWN9
9"	—	5CRA2	2EWP1	—	2EWP2	2EWP3
10"	5CRA3	5CRA4	2EWP4	5CRA5	5ZW56	2EWP5
12"	5CRA6	5CRA7	2EWP6	5CRA8	5ZW58	2EWP7
14"	5CRC0	5CRC1	5CRC2	5CRC3	5CRC4	5CRC5
16"	5CRD0	5CRD1	5CRD2	5CRD3	5CRD4	5CRD5
18"	5CRD6	5CRD7	5CRD8	5CRD9	—	5CRE1
20"	5CRE2	5CRE3	5CRE4	5CRE5	5CRE6	5CRE7
22"	5CRE8	5CRE9	—	5CRF1	—	—
24"	5CRF3	5CRF4	5CRF5	—	5CRF7	5CRF8
26"	5CRF9	5CRG0	—	5CRG2	5CRG3	—
30"	5CRG8	5CRG9	—	5CRH1	5CRH2	5CRH3
32"	5CRH4	—	—	—	—	—
36"	5CRJ0	5CRJ1	5CRJ2	5CRJ3	5CRJ4	5CRJ5
38"	5CRJ6	5CRJ7	—	5CRJ9	—	—
48"	—	5CRK8	—	5CRL0	5CRL1	—

W	Item No.
Cleanroom Poly Tubing, 500 ft-Roll	
4 mil	
16"	5CRL3
24"	5CRL4
48"	5CRL5
6 mil	
4"	5CRL6
6"	5CRL7
8"	5CRL8
10"	5CRL9

W	H	D	Material	Recommended Bag Width	Item No.
Poly Tubing Dispensers					
12"	7½"	12"	Metal	12"	9UAV2
12"	9"	13¼"	Steel	12"	6JG19
24"	8½"	12"	Metal	24"	8AYX4

Single Zip Seal
5CND4

Single Zip Seal
3CTZ7

White Block Write on Surface
5ZW36

Slide Seal
5CNX3

Drawstring Reclosable
5CPE2

Reclosable Poly Bags

MINIGRIP
A Member of Inteplast Group

- LDPE material, except polypropylene where noted in footnote
- FDA compliant

Reclosable clear poly bags and drawstring bags have a closing mechanism that can be opened and closed multiple times. They eliminate the need for a heat sealer or twist ties, and are commonly used to store mail, food, or small, static-sensitive parts.

Single Zip Seal—Bags are reinforced to help prevent splitting when bags are opened or filled. These bags can be opened and closed quickly.

White Block Write on Surface—Bags have a section on the middle of the bag for writing a custom message, such as an address, using a marker or pen.

Double Zip Seal—Bags provide a secure lock that keeps out moisture and air. The heavy-duty zipper helps prevent leaks and eliminates spills and contamination. These bags have a wide opening for easy sealing and resealing.

Slide Seal—Bags have a seal mechanism that glides smoothly across the bag to help eliminate spills or contamination.

Drawstring Reclosable—Bags have a drawstring closure to seal the bag securely. The drawstring can be used to hang a sealed bag containing additional parts or instructions where needed.

W	L	Package Config.	Brand	Item No.	Pkg. Qty.
Single Zip Seal					
2 mil					
1½"	2"	Flat Pack	—	5CND4	1000
2"	2"	Flat Pack	—	5CND5	1000
2"	3"	Dispenser Box	—	2EWP8	100
2"	3"	Flat Pack	—	5CND6	1000
2"	5"	Flat Pack	—	5CND7	1000
3"	3"	Flat Pack	—	5CNE0	1000
3"	4"	Bag	—	6GGL9	100
3"	4"	Dispenser Box	—	5ZW30	100
3"	4"	Flat Pack	—	5CNE1	1000
3"	5"	Bag	—	6GGN0	100
3"	5"	Dispenser Box	—	5ZW31	100
3"	5"	Flat Pack	—	5CNE2	1000
3"	6"	Flat Pack	—	5CNE3	1000
3"	8"	Flat Pack	—	5CNE4	1000
3"	12"	Flat Pack	—	5CNE6	1000
4"	6"	Dispenser Box	—	5ZW33	100
4"	6"	Flat Pack	—	5CNE9	1000
4"	7"	Flat Pack	—	5CNF0	1000
4"	8"	Flat Pack	—	5CNF1	1000
5"	7"	Flat Pack	—	5CNF4	1000
5"	8"	Dispenser Box	—	2EWP9	100
5"	8"	Flat Pack	—	5CNF5	1000
5"	10"	Flat Pack	—	5CNF6	1000
5"	12"	Flat Pack	—	5CNF7	1000
6"	4"	Flat Pack	—	5CNF8	1000
6"	6"	Dispenser Box	—	2EWR1	100
6"	6"	Flat Pack	—	5CNF9	1000
6"	8"	Flat Pack	—	3CTZ7	1000
6"	9"	Dispenser Box	—	5ZW35	100
6"	9"	Flat Pack	—	5CNG0	1000
6"	10"	Dispenser Bag	Minigrip	36FF35	1000
6"	10"	Flat Pack	—	5CNG1	1000
6"	12"	Flat Pack	—	5CNG2	1000
6"	15"	Flat Pack	—	5CNG3	1000
7"	8"	Flat Pack	—	5CNG4	1000
8"	8"	Bag	—	6GGN5	100
8"	8"	Dispenser Box	—	2EWR2	100
8"	8"	Flat Pack	—	5CNG5	1000
8"	10"	Dispenser Bag	Minigrip	36FF31	1000
8"	10"	Dispenser Box	—	5CNV9	1000
8"	10"	Flat Pack	—	5CNG6	1000
8"	12"	Flat Pack	—	5CNG7	1000
9"	12"	Bag	—	6GGN6	100
9"	12"	Dispenser Bag	Minigrip	36FF32	1000
9"	12"	Dispenser Bag	Minigrip	36FF38	1000
9"	12"	Dispenser Box	—	5ZW37	100
9"	12"	Dispenser Box	—	5CNW0	1000
10"	10"	Flat Pack	—	5CNG9	1000
10"	12"	Dispenser Bag	Minigrip	36FF36	1000
10"	12"	Flat Pack	—	5CNH0	1000
10"	13"	Dispenser Bag	Minigrip	36FF42	1000
10"	13"	Dispenser Box	—	5CNW1	1000
10"	13"	Flat Pack	—	5CNH1	1000
12"	12"	Dispenser Bag	Minigrip	36FF43	1000
12"	12"	Flat Pack	—	5CNH2	1000
12"	15"	Bag	—	6GGN7	100
12"	15"	Dispenser Bag	Minigrip	36FF28	1000
12"	15"	Dispenser Box	—	5ZW38	100
12"	15"	Flat Pack	—	5CNH3	1000
13"	15"	Dispenser Bag	Minigrip	36FF41	1000
13"	15"	Flat Pack	—	5CNH4	1000
13"	15"	Flat Pack	—	5CNW2	1000
13"	18"	Dispenser Bag	Minigrip	36FF29	1000
13"	18"	Flat Pack	—	5CNH5	1000
14"	20"	Flat Pack	—	5CNH6	500
18"	20"	Flat Pack	—	5CNH7	500
4 mil					
2"	3"	Flat Pack	—	5CNH8	1000
2½"	3"	Flat Pack	—	5CNH9	1000
3"	4"	Bag	—	6GGN8	100
3"	4"	Dispenser Box	—	5ZW39	100
3"	4"	Flat Pack	—	5CNJ0	1000
3"	5"	Corrugated Box	—	5CNJ1	1000
4"	4"	Flat Pack	—	5CNJ2	1000
4"	6"	Bag	—	6GGP0	100
4"	6"	Corrugated Box	—	5CNJ3	1000
4"	6"	Dispenser Box	—	5ZW42	100
4"	8"	Flat Pack	—	5CNJ4	1000
5"	8"	Corrugated Box	—	5CNJ5	1000
6"	4"	Flat Pack	—	5CNJ6	1000
6"	6"	Flat Pack	—	5CNJ7	1000
6"	8"	Flat Pack	—	5CNJ8	1000
6"	9"	Bag	—	6GGP1	100
6"	9"	Corrugated Box	—	5CNJ9	1000
6"	9"	Dispenser Box	—	5ZW44	100
6"	10"	Flat Pack	—	5CNK0	1000
8"	8"	Corrugated Box	—	5CNK1	1000
8"	10"	Corrugated Box	—	5CNK2	1000
8"	10"	Dispenser Bag	Minigrip	36FF30	1000
8"	10"	Flat Pack	—	5CNX1	1000
9"	12"	Bag	—	6GGP2	100
9"	12"	Corrugated Box	—	5CNK3	1000
9"	12"	Corrugated Box	—	5CNX2	1000
9"	12"	Dispenser Bag	Minigrip	36FF40	1000
9"	12"	Dispenser Box	—	5ZW46	100
10"	10"	Dispenser Bag	Minigrip	36FF39	500
10"	10"	Flat Pack	—	5CNK4	1000
10"	12"	Corrugated Box	—	5CNK5	1000
10"	13"	Corrugated Box	—	5CNK6	500
10"	13"	Dispenser Bag	Minigrip	36FF34	500
12"	12"	Corrugated Box	—	5CNK7	1000
12"	12"	Dispenser Bag	Minigrip	36FF37	500
12"	15"	Bag	—	6GGP3	100
12"	15"	Corrugated Box	—	8AV55	500
12"	15"	Dispenser Bag	Minigrip	36FF44	500
12"	15"	Dispenser Box	—	5ZW47	100
13"	15"	Corrugated Box	—	3CUA1	500
13"	18"	Corrugated Box	—	5CNK9	500
13"	18"	Dispenser Bag	Minigrip	36FF33	500
14"	24"	Flat Pack	—	3CUA2	250
Single Zip Seal, with White Block Write on Surface					
2 mil					
2"	2"	Flat Pack	—	5CNU8	1000
2"	3"	Flat Pack	—	5CNU9	1000
3"	4"	Flat Pack	—	5CNV0	1000
3"	5"	Dispenser Box	—	5ZW32	100
3"	5"	Flat Pack	—	5CNV1	1000
4"	6"	Bag	—	6GGP5	100
4"	6"	Corrugated Box	—	5CNV2	1000
4"	6"	Dispenser Box	—	5ZW34	100
4"	8"	Flat Pack	—	5CNV3	1000
4"	10"	Flat Pack	—	5CNV4	1000
5"	5"	Flat Pack	—	5CNV5	1000
5"	8"	Dispenser Box	—	5CNV6	1000
6"	8"	Flat Pack	—	8RJP2	1000
6"	9"	Bag	—	6GGP6	100
6"	9"	Dispenser Box	—	5ZW36	100
6"	9"	Dispenser Box	—	5CNV8	1000
4 mil					
2"	3"	Flat Pack	—	5CNW3	1000
2½"	3"	Flat Pack	—	5CNW4	1000
3"	4"	Flat Pack	—	5CNW5	1000
3"	5"	Bag	—	6GGP7	100
3"	5"	Dispenser Box	—	5ZW41	100
3"	5"	Dispenser Box	—	5CNW6	1000
4"	6"	Bag	—	6GGP8	100
4"	6"	Dispenser Box	—	5ZW43	100
4"	6"	Dispenser Box	—	5CNW7	1000
5"	8"	Flat Pack	—	5CNW8	1000
6"	8"	Flat Pack	—	5CNW9	1000
6"	9"	Bag	—	6GGP9	100
6"	9"	Dispenser Box	—	5ZW45	100
6"	9"	Dispenser Box	—	5CNX0	1000
Single Zip Seal, with Hang Hole					
2 mil					
2"	3"	Flat Pack	—	5CNX8	1000
2"	8"	Flat Pack	—	5CNX9	1000
3"	4"	Flat Pack	—	5CNY2	1000
3"	5"	Flat Pack	—	5CNY3	1000
4"	4"	Flat Pack	—	5CNY5	1000
4"	6"	Flat Pack	—	5CNY6	1000
4"	6"	Flat Pack	—	5CPC0	* 1000
4"	8"	Flat Pack	—	5CNY7	1000
5"	7"	Flat Pack	—	5CNY8	1000
5"	7"	Flat Pack	—	5CPC1	* 1000
5"	8"	Flat Pack	—	5CNY9	1000
6"	8"	Flat Pack	—	5CNZ1	1000
6"	8"	Flat Pack	—	5CPC4	* 1000
6"	9"	Flat Pack	—	5CNZ2	1000
8"	10"	Flat Pack	—	5CPC6	* 1000
9"	12"	Flat Pack	—	5CNZ6	1000
4 mil					
2½"	3"	Flat Pack	—	5CNZ7	1000
3"	4"	Flat Pack	—	5CNZ8	1000
3"	5"	Flat Pack	—	5CNZ9	1000
4"	4"	Flat Pack	—	5CPA0	1000
4"	6"	Flat Pack	—	5CPA1	1000
5"	8"	Flat Pack	—	5CPA2	1000
6"	8"	Flat Pack	—	5CPA4	1000
6"	9"	Flat Pack	—	5CPA5	1000
8"	10"	Flat Pack	—	5CPA6	1000
9"	12"	Flat Pack	—	5CPA7	1000
10"	12"	Flat Pack	—	5CPA8	1000
Double Zip Seal					
4 mil					
2½"	3"	Flat Pack	—	5CNL0	1000
3"	4"	Flat Pack	—	5CNL1	1000
3"	5"	Flat Pack	—	5CNL2	1000
4"	6"	Flat Pack	—	5CNL4	1000
5"	8"	Flat Pack	—	5CNL5	1000
6"	8"	Flat Pack	—	5CNL7	1000
8"	8"	Flat Pack	—	5CNL8	1000
8"	10"	Flat Pack	—	5CNL9	1000
9"	12"	Flat Pack	—	5CNN0	1000
10"	12"	Flat Pack	—	5CNN1	1000
12"	12"	Flat Pack	—	5CNN2	1000
12"	15"	Flat Pack	—	5CNN3	500
13"	18"	Flat Pack	—	5CNN4	500
Double Zip Seal, White Block Write on Surface and Hang Hole					
4 mil					
9"	12"	Dispenser Bag	Minigrip	36FF27	1000
Slide Seal					
3 mil					
6"	6"	Flat Pack	—	5CNX3	250
6"	9"	Flat Pack	—	5CNX4	250
8"	7"	Flat Pack	—	3RB10	250
8"	10"	Flat Pack	—	5CNX5	250
14"	11"	Flat Pack	—	5CNX6	250
16"	12"	Flat Pack	—	9AEK6	250
Single Slide Seal, with White Block Write on Surface					
3 mil					
6"	9"	Flat Pack	—	3RB15	250
Drawstring Reclosable					
1.5 mil					
4"	6"	Flat Pack	—	5CPD2	* 2000
4"	8"	Flat Pack	—	5CPD3	* 2000
5"	6"	Flat Pack	—	5CPD4	* 2000
5"	8"	Flat Pack	—	5CPD5	* 2000
6"	8"	Flat Pack	—	5CPD6	* 1000
6"	10"	Flat Pack	—	5CPD7	* 1000
7"	12"	Flat Pack	—	5CPD8	* 1000
8"	12"	Flat Pack	—	5CPD9	* 1000
9"	12"	Flat Pack	—	5CPE0	* 1000
9¼"	14"	Flat Pack	—	5CPE1	* 1000
12"	18"	Flat Pack	—	5CPC9	* 1000
15"	18"	Flat Pack	—	5CPD0	* 1000
2 mil					
3"	5"	Flat Pack	—	5CPE2	2000
4"	6"	Flat Pack	—	5CPE3	2000
5"	8"	Flat Pack	—	5CPE4	2000
6"	8"	Flat Pack	—	2EWG4	1000
6"	10"	Flat Pack	—	5CPE5	1000
8"	12"	Flat Pack	—	5CPE6	1000
9½"	14"	Flat Pack	—	2EWG8	1000
12"	18"	Flat Pack	—	2EWG6	1000
15"	18"	Flat Pack	—	2EWG7	1000
Drawstring Reclosable, with White Block Write on Surface					
1.5 mil					
3"	5"	Flat Pack	—	5CPD1	* 2000
2 mil					
9"	12"	Flat Pack	—	2EWG5	1000

*** Polypropylene material.**

Bags

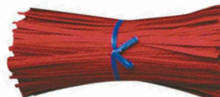
Chipboard Header Poly Bags and Stand

LDPE poly bags are attached to a cardboard header with perforations, allowing them to be torn off easily. The header has holes for hanging from a wall, or optional metal stand 2EWH3.

W	L	Item No.	Pkg. Qty.
Bags			
1.5 mil			
3"	5"	5CPH1	5000
4"	6"	5CPH2	5000
6"	8"	2EWG9	2000
6"	12"	5CPH3	1000
8"	15"	2EWH1	1000
9"	12"	2EWH2	1000
10"	12"	5CPH4	1000
Metal Stand			
10"	12"	2EWH3	1

Paper and Plastic Twist Ties

Reusable twist ties can be cut to a desired length and are used to close poly bags, poly tubing, and other bags. **Paper** twist ties are used to close bags indoors. **Plastic** twist ties are used to close bags indoors or outdoors in wet environments.



Wire in Paper

L	W	▶CHOOSE: Color	Pkg. Qty.	WIRE IN PAPER Item No.	WIRE IN PLASTIC Item No.
4"	¼"	Blue, Red, White	10000	D6685	D6691
5"	¼"	Blue, Red, White	10000	D6686	D6692
6"	⅛"	White	2000	5ZW48	—
6"	¼"	Blue, Red, White	10000	D6687	D6693
7"	¼"	Blue, Red, White	10000	D6688	D6694
8"	¼"	Blue, Red, White	10000	D6689	D6695

Single-Drawstring

Single-Drawstring Bag with Tag

Midwest Pacific®

Drawstring Bags

- Cotton/Poly blend
- 3.98 oz/sq yd fabric weight
- Pkg of 100

Bags have a pull string closure that is used to keep the bag closed. These tear-resistant bags are used to transport and store small parts and hardware such as bolts, screws, and hex keys.

Single-Drawstring Bags— Bags can also be used to hang the bag from equipment or door handles.

Single-Drawstring Bags with Tag—Bags include a tag for printing customizable information such as addresses.

Double-Drawstring Bags— Bags have two drawstrings that can be tied into a tight knot to help keep items from falling out.

L	W	Color	Fabric Weight	Item No.
Single-Drawstring Bags				
4"	3"	Natural	3.98 oz/sq yd	5DJA1
5"	3"	Fluorescent Orange	3.75 oz/sq yd	443W11
5"	3"	Natural	3.98 oz/sq yd	3KB44
6"	4"	Fluorescent Orange	3.75 oz/sq yd	443W12
6"	4"	Natural	3.98 oz/sq yd	3KB45
7"	5"	Fluorescent Orange	3.75 oz/sq yd	443W13
7"	5"	Natural	3.98 oz/sq yd	5DJA2
8"	5"	Natural	3.98 oz/sq yd	3KB46
8"	6"	Fluorescent Orange	3.75 oz/sq yd	443W14
8"	6"	Natural	3.98 oz/sq yd	5DJA3
10"	6"	Natural	3.98 oz/sq yd	2LEF9
10"	8"	Natural	3.98 oz/sq yd	5DJA4
12"	8"	Natural	3.98 oz/sq yd	3KB47
16"	8"	Natural	3.98 oz/sq yd	5DJA5
16"	12"	Natural	3.98 oz/sq yd	2LEG1
Single-Drawstring Bags with Tag				
5"	3"	Natural	3.98 oz/sq yd	5DJA6
6"	4"	Natural	3.98 oz/sq yd	3KB48
7"	5"	Natural	3.98 oz/sq yd	5DJA7
8"	5"	Natural	3.98 oz/sq yd	2LEG2
8"	6"	Natural	3.98 oz/sq yd	5DJA8
10"	6"	Natural	3.98 oz/sq yd	5DJA9
10"	8"	Natural	3.98 oz/sq yd	5DJC0
12"	8"	Natural	3.98 oz/sq yd	3KB49
Double-Drawstring Bags				
4"	2¾"	Natural	3.98 oz/sq yd	5DHZ9
5"	3"	Natural	3.98 oz/sq yd	5DJA0

Moving Blankets and Covers

Moving blankets and covers can be wrapped around appliances, door jambs, and furniture to protect against dents, scratches, and other damage while items are in transit.

Cotton/Poly Quilted Moving Blankets— Zigzag stitching helps keep the blankets from unraveling. They have one-piece linear batting and finished corners to cushion items and protect from dust and dirt.

Non-Woven Quilted Moving Blankets— Zigzag pattern, stitched padding provides cushioning for the items being moved.

Cotton/Poly Quilted Furniture Covers— Zigzag stitching helps keep the covers from unraveling. Hook-and-loop fasteners help hold the covers in place.

Cotton/Poly Quilted Appliance Covers— Covers are slipped over appliances to help absorb shock. Zigzag stitching helps keep the blankets from unraveling. They have one-piece linear batting and finished corners to cushion items and protect from dust and dirt. These covers have ties to help prevent them from sliding.

Cotton/Poly Quilted Hand Truck Cover— Slip over hand trucks to help absorb shock while items are being moved.

Cotton/Poly Quilted Doorjamb Cover— Protect doors and furniture when items are being moved through a doorway. The double-insulated padding has three heavy-duty springs that are used to hold the cover on the door frame. These covers can also be used on stairway banisters.

Forearm Lifting Straps and Moving Harness—Encourage proper lifting techniques by using leverage so that items being moved seem lighter. Also won't leave scrapes and scratches on floors like dollies or hand trucks.

Cotton/Poly Moving Blanket 2NKT3

Doorjamb Cover 2NKU1

Lifting Straps 32TL81

L	W	Color	Weight	Item No.	Pkg. Qty.
Cotton/Poly Quilted Moving Blankets					
78"	100"	Black, Blue, Green	8 lb	2NKT6	1
72"	45"	Blue	2 lb	4LGL1	1
72"	80"	Blue	5 lb	2NKT1	6
72"	80"	Blue	5 lb	2NKR9	12
72"	80"	Blue	6 lb	2NKT3	12
72"	80"	Blue	6 lb	2NKT4	6
72"	80"	Camo	5 lb	2NKT5	12
72"	80"	Green	5 lb	2NKT2	6
Non-Woven Quilted Moving Blankets					
72"	80"	Blue	7 lb	2NKR8	6
72"	80"	Blue	7 lb	2NKR7	12

L	W	H	Filler per Yard	Color	Weight	Item No.
Cotton/Poly Quilted Furniture Covers						
45"	37"	40"	22 oz/sq yd	Blue	9 lb	4LGK1
63"	37"	45"	29 oz/sq yd	Blue	13 lb	4LGK3
80½"	14½"	25"	11 oz/sq yd	White	3 lb	4LGK4
109"	37"	45"	32 oz/sq yd	Blue	18 lb	4LGK2
Cotton/Poly Quilted Appliance Covers						
28"	38"	42"	20 oz/sq yd	Blue	9 lb	4LGJ8
36"	32"	66"	26 oz/sq yd	Blue	13 lb	4LGJ9
Cotton/Poly Quilted Hand Truck Cover						
58"	18"	1"	21 oz/sq yd	Blue	2 lb	2NKT9
Cotton/Poly Quilted Doorjamb Cover						
69"	24"	1"	33 oz/sq yd	Blue	3 lb	2NKU1

Color	Material	Item No.	Pkg. Qty.
Forearm Forklift Lifting Straps			
Safety Orange/Black	Polypropylene	32TL81	1
Moving Harness			
Safety Orange/Black	Polypropylene	32TL82	2

Mattress Bags

- Low Density Polyethylene (LDPE) material

Clear bags protect contents from dust, spills, and dirty hands. Bags can be recycled.

Mattress Size	Thickness	Dim. L	Dim. W	Dim. D	Bag Bottom Type*	Item No.	Pkg. Qty.
Twin	1.1 mil	81"	43"	—	F	5DTT4	200
Twin	1.1 mil	84"	46"	—	F	4NPX2	200
Twin	1.5 mil	87"	39"	10"	G	4NZF7	1
Twin	1.5 mil	90"	39"	8"	G	5DTT5	100
Twin	2 mil	90"	40"	10"	G	5DTT6	100
Twin	4 mil	90"	39"	10"	G	4NPX6	25
Full	1.1 mil	84"	54"	7"	G	4NPX3	150
Full	1.5 mil	90"	54"	8"	G	5DTT8	100
Full	4 mil	90"	54"	12"	G	4NPX7	25
Queen	1.1 mil	92"	60"	9"	G	4NPX4	125
Queen	1.5 mil	90"	60"	8"	G	5DTT9	100
Queen	2 mil	92"	60"	10"	G	4NZF8	1
Queen	4 mil	90"	60"	12"	G	4NPX8	25
King	1.1 mil	96"	70"	12"	G	4NPX5	100
King	1.5 mil	90"	76"	10"	G	5DTU0	100
King	2 mil	96"	78"	10"	G	4NZF9	1
King	4 mil	90"	76"	14"	G	4NPX9	25

** G = Gusseted. F = Flat.*

Equipment Covers

- Low Density Polyethylene (LDPE) material
- FDA compliant

Clear polyethylene bags provide dust protection for sensitive equipment and materials such as computers, healthcare equipment and oxygen tanks. They come on convenient rolls for easy handling.

W	D	L	Bag Bottom Type*	Item No.	Pkg. Qty.
1 mil Thickness					
12"	8"	26"	G	5CPF4	500
14"	3"	22"	G	5CPF5	500
18"	15"	21"	G	5CPF7	250
19"	—	34"	F	5CPF8	500
20"	5"	35"	G	5CPF9	500
21"	13"	30"	G	5CPG0	500
22"	12"	26"	G	5CPG1	250
22"	16"	58"	G	5CPG2	100
28"	22"	60"	G	5CPG6	150
36"	7"	45"	G	5CPG8	150
38"	26"	48"	G	5CPG9	150
40"	20"	48"	G	5CPH0	150
1.5 mil Thickness					
16"	14"	36"	G	5CPF6	250
24"	—	30"	F	5CPG3	500
25"	15"	30"	G	5CPG4	250
26"	—	36"	F	5CPG5	250
30"	—	42"	F	5CPG7	250

** G = Gusseted. F = Flat.*

Bin Liners

- Low Density Polyethylene (LDPE) material

Clear liners shield bin contents from dust, dirt, and moisture, for placement inside large boxes, bulk cargo containers, and gaylord containers. Used in manufacturing for transporting metals and chemicals and in food processing for storing spices and grain. Packaged on convenient rolls.

Thickness	L	W	D	Item No.	Pkg. Qty.
1 mil	100"	48"	40"	2EWH4	100
2 mil	65"	46"	36"	2EWH9	100
2 mil	72"	40"	24"	2EWH7	100
2 mil	72"	42"	32"	2EWH8	100
2 mil	72"	48"	46"	2EWJ1	100

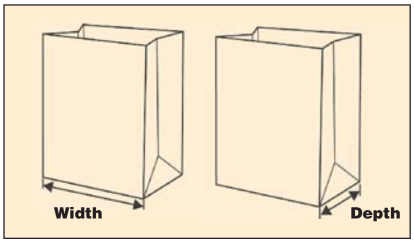
Kraft

White

Grocery Bags

Bags have a flat bottom and are used for carrying items such as produce, canned goods, and milk cartons.

W	D	H	Bag Name	Basis Weight	Brand	Item No.	Pkg. Qty.
Kraft							
4 5⁄16"	2 7⁄16"	7 7⁄8"	2#	52 lb	Duro	**493X74**	400
4 3⁄8"	2 1⁄2"	7 7⁄8"	2#	30 lb	—	**12R024**	500
4 3⁄4"	3"	8 5⁄8"	3#	30 lb	—	**12R025**	500
4 3⁄4"	3"	8 5⁄8"	3#	52 lb	Duro	**493X75**	400
5"	3 1⁄8"	9 3⁄4"	4#	52 lb	Duro	**493X76**	400
5"	3 3⁄8"	9 3⁄4"	4#	30 lb	—	**12R026**	500
5 1⁄4"	3 1⁄2"	11"	5#	30 lb	—	**12R027**	500
5 1⁄4"	3 1⁄2"	11"	5#	52 lb	Duro	**493X77**	400
6"	3 5⁄8"	11 1⁄8"	6#	35 lb	—	**12R028**	500
6"	3 5⁄8"	11 1⁄8"	6#	52 lb	Duro	**493X78**	400
6 1⁄8"	4 1⁄8"	12 1⁄2"	8#	35 lb	—	**12R029**	500
6 1⁄8"	4 1⁄8"	12 1⁄2"	8#	50 lb	Duro	**493X66**	400
6 1⁄8"	4 1⁄8"	12 1⁄2"	8#	57 lb	Duro	**493X79**	400
6 3⁄8"	4 1⁄4"	13 3⁄8"	10#	35 lb	—	**12R030**	500
6 3⁄8"	4 1⁄4"	13 3⁄8"	10#	50 lb	Duro	**493X67**	400
6 3⁄8"	4 1⁄4"	13 3⁄8"	10#	57 lb	Duro	**493X80**	400
7 1⁄8"	4 1⁄2"	13 3⁄4"	12#	40 lb	—	**12R031**	500
7 1⁄8"	4 1⁄2"	13 3⁄4"	12#	50 lb	Duro	**493X68**	400
7 1⁄8"	4 1⁄2"	13 3⁄4"	12#	57 lb	Duro	**493X81**	400
7 3⁄4"	4 7⁄8"	16"	16#	40 lb	—	**12R032**	500
7 3⁄4"	4 7⁄8"	16"	16#	50 lb	Duro	**493X69**	400
7 3⁄4"	4 7⁄8"	16"	16#	57 lb	Duro	**493X82**	400
8 1⁄4"	5 1⁄4"	18"	25#	40 lb	—	**12R035**	500
8 1⁄4"	5 1⁄4"	18"	25#	50 lb	Duro	**493X72**	400
8 1⁄4"	5 1⁄4"	18"	25#	57 lb	Duro	**493X85**	400
8 1⁄4"	5 5⁄16"	13 3⁄8"	20#	40 lb	—	**12R034**	500
8 1⁄4"	5 3⁄8"	16 1⁄8"	20#	40 lb	—	**12R033**	500
8 1⁄4"	5 3⁄8"	16 1⁄8"	20#	50 lb	Duro	**493X70**	400
8 1⁄4"	5 3⁄8"	16 1⁄8"	20#	57 lb	Duro	**493X83**	400
8 1⁄4"	5 3⁄8"	13 3⁄8"	20# SH	57 lb	Duro	**493X84**	400
8 1⁄4"	6 1⁄8"	15 7⁄8"	25#	40 lb	—	**12R036**	500
8 1⁄4"	6 1⁄8"	15 7⁄8"	25# SH	50 lb	Duro	**493X73**	400
8 1⁄4"	6 1⁄8"	15 7⁄8"	25# SH	57 lb	Duro	**493X86**	400
9 3⁄4"	6 1⁄4"	16 3⁄8"	1⁄8 BBL	52 lb	—	**12R104**	500
9 3⁄4"	6 1⁄4"	16 3⁄8"	1⁄8 BBL	57 lb	—	**12R106**	500
10 1⁄8"	6 3⁄4"	14 3⁄8"	1⁄8 BBL	52 lb	—	**12R105**	500
10 1⁄8"	6 3⁄4"	14 3⁄8"	1⁄8 BBL	57 lb	—	**12R107**	500
12"	7"	14"	1/7 BBL	57 lb	—	**12R109**	500
12"	7"	14"	1/7 BBL	66 lb	—	**12R111**	500
12"	7"	17"	1/6 BBL	40 lb	—	**12R103**	400
12"	7"	17"	1/6 BBL	57 lb	—	**12R095**	500
12"	7"	17"	1/6 BBL	60 lb	—	**12R096**	500
12"	7"	17"	1/6 BBL	66 lb	—	**12R097**	500
12"	7"	17"	1/6 BBL	70 lb	—	**12R099**	400
12"	7"	17"	1/6 BBL	70 lb	—	**12R098**	500
12"	7"	17"	1/6 BBL	76 lb	—	**12R101**	400
12"	7"	17"	1/6 BBL	80 lb	—	**12R102**	400
White							
4 3⁄8"	2 1⁄2"	7 7⁄8"	2#	30 lb	—	**12R038**	500
4 3⁄4"	3"	8 5⁄8"	3#	30 lb	—	**12R039**	500
5"	3 3⁄8"	9 3⁄4"	4#	30 lb	—	**12R040**	500
5 1⁄4"	3 1⁄2"	11"	5#	30 lb	—	**12R041**	500
6"	3 5⁄8"	11 1⁄8"	6#	35 lb	—	**12R042**	500
6 1⁄8"	4 1⁄8"	12 1⁄2"	8#	35 lb	—	**12R043**	500
6 3⁄8"	4 1⁄4"	13 3⁄8"	10#	35 lb	—	**12R044**	500
7 1⁄8"	4 1⁄2"	13 3⁄4"	12#	35 lb	—	**12R045**	500
7 3⁄4"	4 7⁄8"	16"	16#	40 lb	—	**12R046**	500
8 1⁄4"	5 1⁄4"	18"	25#	40 lb	—	**12R049**	500
8 1⁄4"	5 3⁄8"	16 1⁄8"	20#	40 lb	—	**12R047**	500
8 1⁄4"	6"	13 3⁄8"	20#	40 lb	—	**12R048**	500
8 1⁄4"	6 1⁄8"	15 7⁄8"	25#	40 lb	—	**12R050**	500
12"	7"	17"	1/6 BBL	60 lb	—	**12R114**	500



Kraft

White

Merchandise Bags with Handle

Merchandise bags, also known as shopping bags, have a paper twist handle and can be used for restaurant takeout containers. These bags are recyclable.

W	D	H	Bag Name	Basis Weight	Pkg. Qty.	Kraft Item No.	White Item No.
8"	4 1⁄2"	10 1⁄4"	60#	60 lb	250	**12R072**	**12R082**
10"	5"	13"	60#	60 lb	250	**12R074**	**12R084**
10"	6 3⁄4"	12"	60#	57 lb	250	**12R091**	—
12"	9"	15 3⁄4"	65#	65 lb	200	**12R078**	—
13"	6"	15 3⁄4"	60#	60 lb	250	**12R076**	**12R086**
13"	7"	13"	65#	65 lb	250	**12R075**	**12R085**
13"	7"	17"	65#	65 lb	250	**12R077**	**12R087**
14"	10"	15 3⁄4"	70#	70 lb	200	**12R092**	**12R093**
16"	6"	12"	65#	65 lb	250	**12R079**	**12R088**
16"	6"	19 1⁄4"	65#	65 lb	200	**12R080**	**12R089**
18"	7"	18 3⁄4"	70#	70 lb	200	**12R081**	**12R090**

4NZE5

56GL67

Packing Peanuts

- S-shaped peanut

Reusable, loose packing peanuts fill excess space in a container around a product and provide some protection against damage during transit for items that are not fragile.

Recycled Polystyrene Peanuts—Dissolve in water. Reusable.

Biodegradable Peanuts—For packages that will not be exposed to moisture. 100% recycled fill is reusable and static-free. Will not chip or dust.

Anti-Static Peanuts—Are made of material that does not accumulate static electricity, so they are a good choice for filling space in containers around electronics or computers. They reduce the risk of electrostatic discharge, which can damage fragile electronic components.

Virgin Polystyrene—Peanuts are reusable loose packing material.

Bag Size	Peanut Color	Bag Height	Item No.
Recycled Polystyrene Peanuts			
15 cu ft	White	32 in	**4NZE7**
Biodegradable Peanuts			
7 ½ cu ft	White	24 in	**4NZE5**
20 cu ft	White	49 in	**4NZE6**
Anti-Static Peanuts			
7 cu ft	Pink	18 in	**56GL66**
20 cu ft	Pink	45 in	**56GL67**
Virgin Polystyrene Peanuts			
20 cu ft	White	45 in	**56GL68**

Instant Foam Packaging

The foam relies on pressure to form into the shape of items in a container. It doesn't need to be warmed and works faster than foam that requires heat. It is supplied in a bag containing two compounds. When mixed with pressure, the compounds harden into foam that surrounds the item in the box and fills all void space.

Bag Width	Bag Length	Bag No.	Bags per Case	Item No.
10 ¼ in	15 ½ in	10	36	**2CXC3**
10 ½ in	15 ½ in	20	36	**2CXC4**
10 ¼ in	15 ½ in	40	30	**2CXC5**
10 ¼ in	15 ½ in	60	30	**2CXD6**
10 ¼ in	15 ½ in	80	24	**2CXC6**

Kraft Paper Rolls

- Find more Kraft paper rolls on Grainger.com

Kraft heavy packaging recycled paper is used to wrap items for shipping or fill void areas of containers so that products don't shift during transit.

Roll Width	Roll Length	Roll Weight	Item No.
30 lb Basis Weight			
12 in	1,200 ft	12 lb	**6TWR0**
18 in	1,200 ft	18 lb	**5PGL4**
24 in	1,200 ft	24 lb	**5PGL5**
30 in	1,200 ft	30 lb	**5PGL6**
36 in	1,200 ft	36 lb	**5PGL7**
48 in	1,200 ft	48 lb	**5PGL8**
40 lb Basis Weight			
12 in	900 ft	12 lb	**6TWR1**
18 in	900 ft	18 lb	**5PGL9**
24 in	900 ft	24 lb	**5PGN0**
	1,225 ft	33 lb	**5PGN1**
30 in	900 ft	30 lb	**5PGN2**
36 in	900 ft	36 lb	**5PGN3**
	1,225 ft	49 lb	**5PGN4**
48 in	900 ft	48 lb	**5PGN5**

Roll Width	Roll Length	Roll Weight	Item No.
50 lb Basis Weight			
12 in	720 ft	12 lb	**6TWR2**
18 in	720 ft	18 lb	**5PGN6**
24 in	720 ft	24 lb	**5PGN7**
30 in	720 ft	30 lb	**5PGN8**
36 in	720 ft	36 lb	**5PGN9**
48 in	720 ft	48 lb	**5PGP0**
60 lb Basis Weight			
18 in	600 ft	18 lb	**5PGP1**
24 in	600 ft	24 lb	**5PGP2**
30 in	600 ft	30 lb	**5PGP3**
36 in	600 ft	36 lb	**5PGP4**
48 in	360 ft	34 lb	**3EVT7**
	600 ft	48 lb	**5PGP5**

Kraft Paper Sheets

This heavy packaging recycled paper can be used to wrap small products by hand or fill space in small boxes to prevent items from shifting during shipping. Precut stacks don't need to be torn or cut to size.

Sheet Width	Sheet Length	Sheets per Bundle	Item No.
30 lb Basis Weight			
36 in	24 in	830	**5PGR1**
24 in	18 in	1,660	**5PGR0**
50 lb Basis Weight			
36 in	24 in	500	**5PGR3**
24 in	18 in	1,000	**5PGR2**
60 lb Basis Weight			
36 in	24 in	200	**5PGR8**
24 in	18 in	400	**5PGR7**

BubbleWrap

Bubble Rolls for General Use

- Clear

Flexible plastic material made with regularly spaced air pockets is used to wrap and cushion items inside a package.

Standard—Ideal for e-commerce companies that pack and ship lightweight or midweight items without sharp corners.

Parcel-Ready—Because they're smaller than standard rolls, they are a good choice for small e-commerce businesses that ship low volumes of items and have limited space to store shipping supplies. Meet standard UPS shipping guidelines.

Heavy-Duty—Stronger than standard bubble packaging. The air pockets are made from more layers of plastic, making them ideal for packing heavy or sharp objects edges during transit.

Standard

Parcel-Ready

Bubble Size	Roll Width	Roll Length	Rolls per Bundle	Brand	NON-PERFORATED Item No.	PERFORATED (every 12") Item No.
Standard Bubble Rolls						
3⁄16 in	12 in	750 ft	4	—	**5VEL6**	**5VER1**
	16 in	750 ft	3	—	**56KH90**	**56KH81**
	24 in	750 ft	2	—	**5VEK1**	**5VER3**
	48 in	750 ft	1	Bubble Wrap	**56LT56**	—
5⁄16 in	12 in	375 ft	4	—	—	**5VEU2**
	12 in	375 ft	4	Bubble Wrap	**787PR3**	—
	16 in	375 ft	3	Bubble Wrap	**787PR4**	**787PP5**
	24 in	375 ft	2	—	**5VEK5**	**5VER7**
	48 in	375 ft	1	Bubble Wrap	—	**56LT60**
½ in	12 in	250 ft	4	—	**5VEL2**	**5VET4**
	16 in	250 ft	3	Bubble Wrap	**787PR7**	**787PP8**
	24 in	250 ft	2	Bubble Wrap	**787PR8**	**787PP9**
	48 in	250 ft	1	—	**36DY64**	—
	48 in	250 ft	1	Bubble Wrap	—	**56LT64**
Parcel-Ready Bubble Rolls						
3⁄16 in	24 in	300 ft	2	—	**39UK86**	—
	48 in	300 ft	1	—	**36DY61**	—
5⁄16 in	12 in	188 ft	4	—	**5VEN6**	—
	24 in	188 ft	2	—	**5VEN7**	—
	48 in	188 ft	1	—	**5VEN8**	—
½ in	24 in	125 ft	2	—	**36DY72**	—
	48 in	125 ft	1	—	**36DY65**	—
Heavy-Duty Bubble Rolls						
½ in	12 in	250 ft	4	—	**56KZ98**	**56KZ95**
	24 in	250 ft	2	—	**56KZ99**	**56KZ96**
	48 in	250 ft	1	—	**56LA01**	**56KZ97**

A-Flute Corrugated Wraps

Layered packing material protects fragile items such as glass or china against damage during storage or shipment. A smooth layer of Kraft color paper is glued to a fluted layer that can be cut or torn to size with a utility knife.

Roll Width	Roll Length	Item No.
3 in	250 ft	**36MZ82**
4 in	250 ft	**36MZ83**
6 in	250 ft	**36MZ84**
9 in	250 ft	**36MZ85**
12 in	250 ft	**36MZ86**
15 in	250 ft	**36MZ87**
18 in	250 ft	**36MZ88**
24 in	250 ft	**3EVP2**
30 in	50 ft	**36MZ94**
36 in	250 ft	**3EVP3**
48 in	250 ft	**3EVP4**
60 in	250 ft	**36MZ92**
72 in	250 ft	**36MZ93**

Newsprint Rolls

These rolls fit in dispensing stands so lengths can be torn or cut from the roll.

Roll Width	Roll Length	Roll Weight	Item No.
30 lb Basis Weight			
18 in	1,200 ft	18 lb	**5PGT4**
24 in	1,200 ft	24 lb	**5PGT5**
30 in	1,200 ft	30 lb	**5PGT6**
36 in	1,200 ft	36 lb	**5PGT7**
48 in	1,200 ft	48 lb	**5PGT8**

Bogus Paper Rolls

Bogus paper is soft, making it easy to crumple by hand to fill space in containers. It's an economical choice for wrapping or layering between fragile items such as dishes, glassware, or small decorations. The paper is made from recycled paper fiber and newsprint.

Roll Width	Roll Length	Roll Weight	Item No.
50 lb Basis Weight			
18 in	720 ft	18 lb	**5PGR9**
24 in	720 ft	24 lb	**5PGT0**
30 in	720 ft	30 lb	**5PGT1**
36 in	720 ft	36 lb	**5PGT2**
48 in	720 ft	48 lb	**5PGT3**
70 lb Basis Weight			
24 in	1,175 ft	56 lb	**5PGP9**

Poly-Coated Paper Rolls

This packaging material is made from heavy, stiff Kraft paper that has been coated with a wax layer on one side. It's a good choice for wrapping metal parts or items that must avoid contact with moisture, because the coating protects items against oil, grease, and water.

Roll Width	Roll Length	Roll Weight	Item No.
50 lb Basis Weight			
18 in	600 ft	18 lb	**5PGL0**
24 in	600 ft	24 lb	**5PGL1**
36 in	600 ft	36 lb	**5PGL2**
48 in	600 ft	48 lb	**5PGL3**

Anti-Static Bubble Rolls

Anti-static material protects against electrostatic discharge (ESD), and is a good choice for packaging electronic devices or computers.

Roll W	Roll L	Pkg. Qty.	NON-PERFORATED Item No.	PERFORATED (every 12") Item No.
3⁄16 in Bubble Size				
12 in	300 ft	4	**39UK81**	—
12 in	750 ft	4	**5VEP2**	**39UL09**
24 in	175 ft	1	—	**5VEX0**
24 in	750 ft	2	**5VEP3**	**36DY75**
48 in	750 ft	1	—	**5VEV6**
½ in Bubble Size				
12 in	250 ft	4	**5VEP8**	**36DY63**
24 in	250 ft	2	**5VEP9**	**36DY67**
48 in	250 ft	1	**5VER0**	**5VEW2**

Insulated Bubble Rolls

- 3⁄16" bubble
- Min. temp.: -60°F
- Max. temp.: 180°F

Bubble rolls are layered flexible plastic material with regularly spaced, uniform air pockets that has a layer of shiny, reflective film on one side. It can be cut or torn to length to line a container to protect foods, beverages, and pharmaceutical products during transit. The packing material helps maintain a consistent temperature in the container, preventing heat or cold from entering and spoiling food or damaging medications. Silver color.

Roll Width	Roll Length	Rolls per Bundle	Item No.
12"	125 ft	4	**56LA14**
24"	125 ft	1	**39UL19**
24"	125 ft	2	**56LA15**
48"	125 ft	1	**56LA16**

Pregis-Quantum
56LA41

Sealed Air-Fasfil
56LU33

Pregis-Quantum
56LA42

Pregis | Sealed Air

Kraft Paper Crumpling Machines and Paper

These products tightly pack paper to fill voids in packages keeping items from moving during shipping and shielding them from damage. Machines are only compatible with paper of the same brand.

Kraft Paper Crumpling Machines—Pregis-Quantum is designed for high volume operations but is small enough to support decentralised pack stations. **Sealed Air-Fasfil** delivers paper on-demand for small and low-fragility voids.

Kraft Paper Bundles—Brown paper can be dispensed from a stand so that the required amount can be torn off. It can be used to wrap or layer between items, or to fill excess space inside packages.

W	Min. Height	Max. Height	Voltage	For Paper Basis Weight	Mfr. Model	Item No.
Kraft Paper Crumpling Machines						
PREGIS - QUANTUM						
15"	48"	72"	110V	30 lb, 45 lb	9090751	**56LA41**
SEALED AIR - FASFIL						
45"	71½"	85¼"	100 to 240V AC	30 lb, 35 lb, 40 lb	FF1500FS110	**56LU33**

Basis Weight	Bundle Width	Bundle Length	Mfr. Model	Item No.
Kraft Paper Bundles for Crumbling Machines				
PREGIS - QUANTUM				
30 lb	14¾"	1690 ft	4069622	**56LA42**
SEALED AIR - FASFIL				
30 lb	15"	1600 ft	101008820	**56LU36**
30 lb	30"	1600 ft	101008981	**56LU34**
35 lb	15"	1400 ft	101089687	**56LU35**

Air Pillow
56LA40

Double Large
56LA32

Pregis

Air Pillow Films

Air pillow films are rolls of a double layer of thin plastic film. Film is inflated and sealed in sections with an air pillow machine of the same brand as the film to form a packing "pillow." Perforations between each pillow allow them to be separated into singles or lengths of pillows as needed to fill void space in a package prior to shipment. The air pillows provide some cushioning for packaged items, preventing them from shifting in transit.

Air Pillow Style	Air Pillow Length	Air Pillow Width	Mil Thickness	Roll Length	Item No.	Rolls per Case
PREGIS - AIRSPEED						
Air Pillow	5"	8"	1 mil	2,600 ft	**56LA40**	1
PREGIS - MINI PAK'R						
Air Pillow	8"	4"	1.2 mil	656 ft	**56LA34**	2
	8"	8"	1.2 mil	656 ft	**56LA35**	2
Small Bubble Cushioning Film	6"	12"	1.78 mil	656 ft	**56LA37**	1
	6"	24"	1.2 mil	640 ft	**56LA38**	1
Large Bubble Cushioning Film	6"	12"	1.78 mil	656 ft	**56LA36**	1
Double Large Bubble Cushioning Film	7"	6"	1.78 mil	656 ft	**56LA32**	1
Super Tube Film	2½"	7"	1.78 mil	656 ft	**56LA33**	1

Pregis
Airspeed
56LA39

Pregis
Mini Pak'R
56LA31

Sealed Air
Fill-Air Rocket
56LU13

Sealed Air
Newair
I.B. Flex
56LU21

Sealed Air
Newair I.B. Nano
56LU29

Pregis | Sealed Air

Air Pillow Machines

Air pillow machines hold a roll of air pillow film of the same brand as the machine. They have a mechanism to pull film from the roll and swiftly inflate and seal each pillow. The machines can be mounted on a wall or table in a packaging station, or they can be fitted to a stand with casters so they can be moved around a facility. Air pillow machines are a good choice for packaging stations with limited space because the machine and film rolls take up less space than other types of protective packaging, such as peanuts or packing paper.

L	W	H	Voltage	Machine Speed	Mfr. Model	Item No.
PREGIS						
Pregis - Airspeed						
18"	12"	12"	110V	30 fpm	9090753	**56LA39**
Pregis - Mini Pak'R						
13½"	13"	11½"	110V	—	4075536	**56LA31**
SEALED AIR						
Sealed Air - Fill-Air Rocket						
18"	17½"	17¾"	100 to 120V	100 fpm	1001PVF-01	**56LU13**
Sealed Air - Newair I.B. Flex						
29"	26"	19"	100 to 120V	90 fpm	1001WY-01	**56LU21**
34"	56"	54"	100 to 120V	90 fpm	1001WY-04	**56LU22**
Sealed Air - Newair I.B. Nano						
28"	17"	9"	110V	30 fpm	1001AAE-001	**56LU29**

Desiccant Bag

Cartridge

Desiccant Bags

Bags are packets filled with material that absorbs moisture. When added to packages, these packets absorb water vapor and protect items that must not get wet. They protect leather items, food products, or medicines.

Tyvek—These tear-proof, dust-free bags meet FDA specifications for contact with food and drugs. They are used to absorb moisture when shipping food, pharmaceuticals, and electronic components.

Cartridge—FDA-approved cartridge is for use in food and pharmaceutical applications. The silica gel is packed in a hard cartridge to save space when used in pharmaceutical bottles. Cartridge is best suited for use at temperatures below 100°F, but can be used at up to 302°F.

W	L	Area Protected	Desiccant Bag Size	Container Type	Bags per Package	Brand	Item No.
Tyvek Desiccant Bags							
¼"	3½"	0.83 cu ft	18 g	Pail, Plastic	550	SCS	**20FX09**
1"	2½"	0.14 cu ft	1/6 oz	Pail	1200	Armor Shield	**36LP57**
1"	3½"	0.28 cu ft	⅓ oz	Pail	700	Armor Shield	**36LP58**
1½"	3⅛"	0.42 cu ft	½ oz	Pail	550	Armor Shield	**36LP59**
2⅛"	2⅛"	0.03 cu ft	7 g	Pail, Plastic	1,200	SCS	**20RE41**
2⅛"	2½"	0.03 cu ft	12 g	Pail, Plastic	700	SCS	**20RE40**
2¼"	2⁹⁄₁₆"	0.14 cu ft	6 g	Carton	1,200	—	**20TM04**
3"	3"	476.0 cu in	⅜ oz	Bag	40	Control Company	**8C176** *
3"	3"	476.0 cu in	⅜ oz	Bag	40	Control Company	**8ZF81** †
3"	4"	0.83 cu ft	1 oz	Pail	300	Armor Shield	**36LP60**
3"	4"	0.83 cu ft	1 oz	Drum	1,300	Armor Shield	**36LP62**
3"	4½"	0.83 cu ft	40 g	Pail, Plastic	300	SCS	**20FX10**
3"	6"	1.67 cu ft	2 oz	Pail	150	Armor Shield	**36LP61**
3"	6"	1.67 cu ft	2 oz	Drum	800	Armor Shield	**36LP63**
5"	4½"	0.83 cu ft	68 g	Pail, Plastic	150	SCS	**20FX11**
5"	5½"	3.33 cu ft	4 oz	Drum	500	Armor Shield	**36LP64**
5"	8"	6.67 cu ft	8 oz	Drum	300	Armor Shield	**36LP65**
5²⁹⁄₃₂"	9¹⁹⁄₃₂"	104.0 cu ft	125 g	Carton	72	—	**20TL91**
Cartridge Desiccant Bags							
4"	2"	3.0 cu ft	—	Can	1	SP Scienceware	**9TZ71**

** Humidity sponge. † Humidity sponge indicator.*

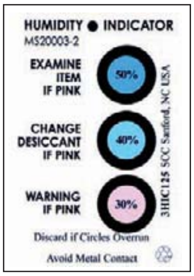
Standard Foam Rolls

Foam sheeting is ideal for packing large volumes of fragile or breakable items. Rolls fit on a dispenser stand so foam can be pulled from the roll and cut to size or torn at perforations. White color packaging foam is thin, flexible and protects glass, ceramics, metal parts, or wood products from scratching or breaking during shipment.

Roll Width	Roll Length	Rolls per Bundle	NON-PERFORATED Item No.	PERFORATED (every 12") Item No.
1/32 in Foam Thickness				
6 in	2,000 ft	12	**5VFC0**	**5VFF6**
12 in	2,000 ft	6	**5VFC1**	—
18 in	2,000 ft	4	**5VFC2**	**5VFF8**
24 in	2,000 ft	3	**5VFC3**	**5VFF9**
48 in	2,000 ft	1	**5VFC4**	—
72 in	2,000 ft	1	**5VFC5**	**5VFG1**
1/20 in Foam Thickness				
12 in	1,500 ft	1	—	**1HAX1**
24 in	1,500 ft	1	—	**1HAX9**
36 in	1,500 ft	1	—	**1HAY8**
1/16 in Foam Thickness				
6 in	1,250 ft	12	**5VFC6**	**5VFG2**
12 in	1,250 ft	6	**5VFC7**	**5VFG3**
	900 ft	1	—	**1HAX3**
18 in	1,250 ft	4	**5VFC8**	**5VFG4**
24 in	900 ft	1	—	**1HAY2**
48 in	1,250 ft	1	**36DY88**	**36DY84**
72 in	1,250 ft	1	**5VFD1**	—
3/32 in Foam Thickness				
6 in	750 ft	12	**5VFD2**	**5VFG8**
12 in	600 ft	1	—	**1HAX5**
	750 ft	6	—	**5VFG9**
18 in	750 ft	4	**5VFD4**	**5VFH0**
24 in	600 ft	1	—	**1HAY4**
	750 ft	3	**5VFD5**	**5VFH1**
48 in	750 ft	1	**5VFD6**	**36DY87**
72 in	750 ft	1	**5VFD7**	**5VFH3**
1/8 in Foam Thickness				
6 in	550 ft	12	**5VFD8**	**5VFH4**
12 in	450 ft	1	—	**1HAX7**
	550 ft	6	**5VFD9**	—
18 in	550 ft	4	**5VFE0**	**5VFH6**
24 in	450 ft	1	—	**1HAY6**
48 in	550 ft	1	**36DY85**	**36DY82**
72 in	550 ft	1	**5VFE3**	**36DY86**
1/4 in Foam Thickness				
6 in	250 ft	12	**5VFE4**	—
12 in	250 ft	6	—	**5VFJ1**
18 in	250 ft	4	**5VFE6**	—
24 in	250 ft	3	**5VFE7**	—
48 in	250 ft	1	—	**36DY83**
72 in	250 ft	1	—	**5VFJ5**

Humidity Indicator Cards

Moisture-sensitive spots measure the percentage of relative humidity inside a shipment. The card hangs on the inside of a container wall. If the humidity level exceeds a certain percentage, the moisture sensing spot on the card changes color from blue to pink, alerting shippers to check the package for moisture or damage.



20FX02

W	L	No. of Dots	Humidity Levels	Indicators per Case	Item No.
1⁹⁄₁₆"	4¾"	6	10 %, 20 %, 30 %, 40 %, 50 %, 60 %	200	**9WXZ5**
2"	3"	3	5 %, 10 %, 15 %	125	**8UY76**
2"	3"	3	5 %, 10 %, 60 %	125	**8GFK3**
2"	3"	3	30 %, 40 %, 50 %	125	**20FX02**
2"	3"	4	10 %, 20 %, 30 %, 40 %	100	**9KPX6**

2GWN1

56HU18

Dunnage Bags

Bags are inflated with air and placed between items in a shipping container or truck. They prevent large items from shifting during transit, protecting against damage to the shipment.

Kraft Paper Dunnage Bags—Are recyclable and reusable if not punctured. They provide a firm cushion around large items and protect products against damage.

Industrial Poly-Woven Dunnage Bags—Made of polypropylene and resist damage from punctures and chemicals. They are waterproof and ideal for stabilizing heavy loads in open railcar shipments.

Vinyl Dunnage Bags—Bags are flexible and reusable if not punctured. They are ideal for bracing perishables, beverages, and odd shaped loads.

L	W	Mil Thickness	Breaking Pressure	Working Pressure	Brand	Item No.
Kraft Paper Dunnage Bags						
36"	24"	28	6 psi	3 psi	—	**2GWN1**
48"	36"	28	6 psi	3 psi	—	**2GWN2**
48"	48"	28	6 psi	3 psi	—	**2GWN6**
60"	48"	28	6 psi	3 psi	—	**2GWN7**
66"	36"	28	6 psi	3 psi	—	**2GWN3**
72"	36"	28	6 psi	3 psi	—	**2GWN4**
72"	48"	28	6 psi	3 psi	—	**2GWN8**
84"	36"	28	6 psi	3 psi	—	**2GWN5**
84"	48"	28	6 psi	3 psi	—	**2GWN9**
96"	48"	28	6 psi	3 psi	—	**2GWP1**
Industrial Poly-Woven Dunnage Bags						
48"	36"	28	3 psi	1 psi	Shippers Products	**56HU19**
48"	48"	28	3 psi	1 psi	Shippers Products	**56HU22**
66"	36"	28	3 psi	1 psi	Shippers Products	**56HU20**
84"	36"	28	3 psi	1 psi	Shippers Products	**56HU21**
84"	48"	28	3 psi	1 psi	Shippers Products	**56HU23**
Vinyl Dunnage Bags						
48"	36"	28	2 psi	1 psi	Shippers Products	**56HU25**
48"	48"	28	2 psi	1 psi	Shippers Products	**56HU28**
66"	36"	28	2 psi	1 psi	Shippers Products	**56HU26**
84"	36"	28	2 psi	1 psi	Shippers Products	**56HU27**
84"	48"	28	2 psi	1 psi	Shippers Products	**56HU29**

For Use With Dunnage Bag Material	Max. Air Pressure	L	W	Brand	Item No.
Dunnage-Bag-Inflators					
Kraft Paper	80 psi	8"	8"	Shippers Products	**56HU11**
Industrial Poly-Woven	120 psi	8"	8"	Shippers Products	**56HU18**
Vinyl	100 psi	8"	8"	Shippers Products	**56HU24**

Corrosion Inhibiting VCI Paper Rolls

Heavy packaging paper can be cut or torn to size. Rolls fit in a dispenser for use at a packing station. The paper wraps metal parts for shipment and storage, and it prevents rust from building up on items.

Basis Weight	Roll Width	Roll Length	Roll Weight	Brand	Item No.	Pkg. Qty.
30 lb	12 in	600 ft	9 lb	Armor Wrap	**36LP10**	3
30 lb	18 in	600 ft	13 lb	Armor Wrap	**36LP11**	2
30 lb	24 in	600 ft	17 lb	Armor Wrap	**36LP12**	2
30 lb	36 in	600 ft	9 lb	Armor Wrap	**36LP13**	1
30 lb	48 in	600 ft	9 lb	Armor Wrap	**36LP14**	1
30 lb	36 in	600 ft	9 lb	Armor Wrap	**36LP34**	1
30 lb	36 in	600 ft	9 lb	Armor Wrap	**36LP41**	1
35 lb	36 in	600 ft	32 lb	—	**5VFY5**	1
35 lb	48 in	600 ft	43 lb	—	**5VFY6**	1
80 lb	48 in	1,500 ft	9 lb	Armor Wrap	**49JZ38**	1

Corrosion Inhibiting VCI Paper Sheets

Heavy packaging paper comes in presized stacks. Paper sheets wrap small metal parts for shipping or storage. They keep moisture out and prevent rust from forming on items.

Basis Weight	Sheet Width	Sheet Length	Sheets per Bundle	Item No.	Pkg. Qty.
2 lb	4 in	4 in	5,000	**49JZ25**	1000
8 lb	9 in	9 in	1,000	**49JZ31**	1000
15 lb	12 in	12 in	1,000	**49JZ32**	1000
30 lb	6 in	6 in	2,000	**55AJ94**	1000
30 lb	12 in	12 in	1,000	**55AK02**	1000
30 lb	15 in	10 in	1,000	**55AJ95**	1000
30 lb	18 in	18 in	1,000	**49JZ34**	1000
30 lb	24 in	12 in	1,000	**55AJ97**	1000
30 lb	24 in	18 in	1,000	**55AJ98**	1000
30 lb	36 in	24 in	1,000	**55AJ99**	1000
32 lb	36 in	36 in	100	**49JZ36**	250
55 lb	48 in	48 in	1,000	**49JZ37**	250

VCI Open Poly Bags

These versatile bags combine beneficial barrier packing with anti-corrosion protection for safe, easy, and dry packaging of metal products. They are recyclable and nontoxic.

Thickness	W	D	L	Color	Item No.	Pkg. Qty.
2 mil	10 in	19 in	14 in	Blue	**36LN91**	500
2 mil	48 in	80 in	50 in	Blue	**36LN89**	75
4 mil	3 in	—	5 in	Blue	**36LN72**	5000
4 mil	4 in	0	6 in	Blue	**475W26**	2000
4 mil	6 in	0	8 in	Blue	**475W28**	2000
4 mil	8 in	10 in	10 in	Blue	**36LN79**	1000
4 mil	9 in	12 in	12 in	Blue	**36LN80**	1000
4 mil	10 in	12 in	12 in	Blue	**36LN81**	1000
4 mil	10 in	21 in	16 in	Blue	**475W25**	250
4 mil	10 in	—	12 in	Blue	**36LN75**	1000
4 mil	11 in	25 in	13 in	Blue	**475W24**	250
4 mil	12 in	18 in	18 in	Blue	**36LN82**	500
4 mil	12 in	—	15 in	Blue	**36LN76**	500
4 mil	16 in	30 in	20 in	Blue	**36LN95**	100
4 mil	18 in	24 in	24 in	Blue	**36LN83**	250
4 mil	20 in	25 in	27 in	Blue	**36LN87**	100
4 mil	23 in	17 in	46 in	Blue	**36LP02**	100
4 mil	24 in	36 in	36 in	Blue	**36LN84**	125
4 mil	29 in	56 in	29 in	Blue	**36LP03**	50
4 mil	33 in	65 in	34 in	Blue	**36LN96**	50
4 mil	36 in	80 in	40 in	Blue	**36LN86**	25
4 mil	44 in	96 in	54 in	Blue	**36LN85**	25
4 mil	45 in	68 in	55 in	Blue	**475W22**	35
4 mil	45 in	80 in	55 in	Blue	**475W21**	40
4 mil	46 in	90 in	49 in	Clear	**475W23**	35
4 mil	48 in	80 in	58 in	Blue	**36LP06**	25

36LP66

36LP68

Corrosion Inhibiting VCI Stretch Wrap

VCI (volatile corrosion inhibiting) film is wrapped around a bundle or pallet to protect machinery and ferrous parts where corrosion of metal parts is a concern. **Hand-grade wrap** can be applied with or without a handheld dispenser. The worker applies the wrap by holding the roll and walking around the bundle. These rolls are smaller than machine-grade wrap rolls, making them easier to transport around a facility. It is used in low- to moderate-volume wrapping applications. **Machine-grade wrap** is installed on a stretch wrap machine. It comes on larger, heavier rolls than hand-grade wrap. Opaque stretch wrap cannot be seen through, which provides added security by hiding product labels when shipping sensitive or valuable items.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Hand-Grade VCI Stretch Wrap Films						
Longer Core						
100 ga	5 in	900 ft	Blue	12 Rolls	Armor Shield	**36LP66**
No Handle						
80 ga	18 in	1,500 ft	Blue	4 Rolls	Armor Shield	**36LP67**
100 ga	20 in	1,500 ft	Blue	1 Roll	—	**5VFY3**
Machine-Grade VCI Stretch Wrap Films						
No Handle						
100 ga	20 in	4,500 ft	Blue	1 Roll	Armor Shield	**36LP68**

Corrosion Inhibiting VCI Pads

Foam pads are infused with a volatile corrosion inhibitor for preventing rust. They can be placed in or between fragile metal items or electronic components to cushion them during transit or storage. VCI pads prevent moisture from accumulating on fragile metal parts that would cause water damage or rust.

W	L	Area Protected	Pads per Case	Thickness	Item No.	Pkg. Qty.
1 in	1 in	1 cu ft	2,000	¼ in	**36LP53**	2000
5 in	2 in	1 cu ft	1,000	¼ in	**36LP52**	1000
9 ⅝ in	9 ⅝ in	8 cu ft	250	¼ in	**36LP51**	250

Corrosion Inhibiting VCI Films

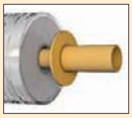
Versatile films combine the benefits of barrier protection with anti-corrosion protection for safe, easy, and dry packaging of metal products.

Mil Thickness	Roll Width	Roll Length	Roll Weight	Item No.	Pkg. Qty.
4	20 ft	100 ft	47 lb	**36LP46**	1
4	36 in	500 ft	30 lb	**36LP48**	1
4	48 in	500 ft	40 lb	**36LP49**	1
4	72 in	500 ft	56 lb	**36LP50**	1
6	20 ft	100 ft	57 lb	**36LP47**	1

Stretch Wrap Style and Handle Types

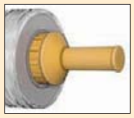
Cast Stretch Wrap
High-clarity wrap tears quietly off the roll and is ideal for uniform loads.

Blown Stretch Wrap
Puncture-resistant wrap is ideal for irregular loads.



Handle w/Brake

Longer Core



Reusable Handle

15G118

Hand-Grade Stretch Wrap

Protect pallets and bundles from contaminants such as dirt and moisture, keep items together, and prevent tampering. This wrap is for use with or without a hand-held dispenser. Apply the wrap by holding the roll and walking around the bundle. These rolls are smaller than machine-grade wrap rolls. Use to wrap boxes and irregular loads or bundles, such as lumber or pallets with irregular sides.

Cast Stretch Wrap Films—This wrap is quieter to apply, and has more cling than blown film. It also provides improved clarity over blown film for viewing bundle contents and requires less force to stretch the wrap during application for uniform loads.

Blown Stretch Wrap Films—Puncture- and tear-resistant wrap is a good choice for irregular loads with sharp edges. It is less likely than cast film to change shape or stretch after application, which makes it good for heavy loads or loads that might shift during transport.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Item No.
Cast Stretch Wrap Films					
Light Duty					
60 ga	12 in	2,000 ft	Clear	1 Roll	**15A933**
60 ga	12 in	2,000 ft	Light Green	1 Roll	**15A942**
60 ga	14 in	2,000 ft	Clear	1 Roll	**15A983**
60 ga	15 in	2,000 ft	Clear	1 Roll	**15G111**
60 ga	15 in	2,000 ft	Light Green	1 Roll	**15A947**
60 ga	18 in	2,000 ft	Clear	1 Roll	**15A984**
60 ga	18 in	2,000 ft	Light Green	1 Roll	**15A952**
65 ga	15 11⁄16 in	1,476 ft	Clear	192 Rolls	**21XL08**
Standard Duty					
70 ga	12 in	1,500 ft	Clear	1 Roll	**15A988**
70 ga	12 in	1,500 ft	Light Green	1 Roll	**15A943**
70 ga	15 in	1,500 ft	Clear	1 Roll	**15G112**
70 ga	15 in	1,500 ft	Light Green	1 Roll	**15A948**
70 ga	18 in	1,500 ft	Clear	1 Roll	**15A998**
70 ga	18 in	1,500 ft	Light Green	1 Roll	**15A953**
70 ga	18 in	1,500 ft	Clear	4 Rolls	**15C019**
80 ga	12 in	1,500 ft	Clear	1 Roll	**15A990**
80 ga	12 in	1,500 ft	Light Green	1 Roll	**15A944**
80 ga	14 in	1,500 ft	Clear	1 Roll	**15A934**
80 ga	15 in	1,500 ft	Clear	1 Roll	**15G113**
80 ga	15 in	1,500 ft	Light Green	1 Roll	**15A949**
80 ga	18 in	1,500 ft	Light Green	1 Roll	**15A954**
80 ga	18 in	1,500 ft	Clear	4 Rolls	**15A936**
80 ga	18 in	1,500 ft	Clear	192 Rolls	**36P080**
90 ga	12 in	1,500 ft	Clear	1 Roll	**15G110**
90 ga	12 in	1,500 ft	Light Green	1 Roll	**15A945**
90 ga	15 in	1,500 ft	Clear	1 Roll	**15G114**
90 ga	15 in	1,500 ft	Light Green	1 Roll	**15A950**
90 ga	18 in	1,500 ft	Clear	1 Roll	**15C003**
90 ga	18 in	1,500 ft	Light Green	1 Roll	**15A955**
Heavy Duty					
120 ga	12 in	1,000 ft	Light Green	1 Roll	**15A941**
120 ga	15 in	1,000 ft	Clear	1 Roll	**15G115**
120 ga	15 in	1,000 ft	Light Green	1 Roll	**15A946**
120 ga	18 in	1,000 ft	Clear	1 Roll	**15G118**
120 ga	18 in	1,000 ft	Light Green	1 Roll	**15A951**
Blown Stretch Wrap Films					
Light Duty					
60 ga	18 in	2,000 ft	Clear	4 Rolls	**54ZV63**
Standard Duty					
70 ga	18 in	1,500 ft	Clear	4 Rolls	**54ZV64**
80 ga	12 in	1,500 ft	Clear	4 Rolls	**54ZV61**
80 ga	14 in	1,500 ft	Clear	4 Rolls	**54ZV62**
80 ga	18 in	1,500 ft	Clear	4 Rolls	**54ZV65**
80 ga	20 in	1,000 ft	Clear	4 Rolls	**54ZV68**
90 ga	18 in	1,500 ft	Clear	4 Rolls	**54ZV66**
Heavy Duty					
120 ga	18 in	1,000 ft	Clear	4 Rolls	**54ZV67**

GOODWRAPPERS HANDWRAPPERS

Color-Coding Stretch Wrap with Handles

Color-coding is used to quickly identify contents to sort and route items, and can be used to indicate tampering or repalletizing. This hand-grade stretch wrap has a handle that workers hold while applying wrap, protecting hands from cuts and scrapes caused by sharp cores and reducing hand fatigue. **Handle with brake stretch wrap** features a brake between the roll and the user's hand. **Reusable handle stretch wrap** can be removed from the roll when it's empty and reused. Ergonomic grip helps reduce worker fatigue.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Handle with Brake Stretch Wrap Films						
Cast						
80 ga	20 in	1,000 ft	Black	1 Roll	Goodwrappers	**15A986**
80 ga	20 in	1,000 ft	Blue	1 Roll	Goodwrappers	**15A878**
80 ga	20 in	1,000 ft	Red	1 Roll	Goodwrappers	**15A893**
80 ga	20 in	1,000 ft	Orange	4 Rolls	Goodwrappers	**15A890**
Cast						
80 ga	3 in	1,000 ft	Black	4 Rolls	Goodwrappers	**15A879**
80 ga	3 in	1,000 ft	Blue	4 Rolls	Goodwrappers	**15A881**
80 ga	3 in	1,000 ft	Orange	4 Rolls	—	**15A921**
80 ga	5 in	1,000 ft	Black	4 Rolls	Goodwrappers	**15A880**
80 ga	5 in	1,000 ft	Green	4 Rolls	—	**15A926**
80 ga	5 in	1,000 ft	Orange	4 Rolls	—	**15A927**
Reusable Handle Stretch Wrap Films						
80 ga	3 in	1,000 ft	Blue	4 Rolls	—	**15A919**
80 ga	3 in	1,000 ft	Red	4 Rolls	—	**15A918**
80 ga	5 in	1,000 ft	Blue	4 Rolls	—	**15A925**
80 ga	5 in	1,000 ft	Red	4 Rolls	—	**15A924**

15A878

15A879

15A909

15A895

15A846

GOODWRAPPERS HANDWRAPPERS

Stretch Wrap with Handles

Handles are included to protect hands from the sharp edges of the core and reduce cuts and abrasions. To apply the wrap, the worker holds the handle and walks around the bundle. Smaller than machine-grade wrap for easy portability.

Longer Core Handle Stretch Wrap Films—Built-in handle extends from each end of the core, allowing workers to hold the core while wrapping. Handles are disposable.

Reusable Handle Stretch Wrap Films—Handles can be removed when the roll is empty and installed on refill rolls. An ergonomic grip allows wrap to be applied with one hand and helps reduce hand fatigue.

Handle with Brake Stretch Wrap Films—Hand-grade stretch wrap has a reusable handle with a brake between the handle and core to protect workers' hands from sharp edges.

Gauge	W	L (ft.)	Color*	Rolls/ Case	Brand	Cast Item No.	Blown Item No.
Longer Core Handle Stretch Wrap Films							
60 ga	20 in	1,000 ft	LG	1	—	**15A957**	—
65 ga	20 in	1,000 ft	C	4	—	**40TE22**	—
70 ga	20 in	1,000 ft	LG	1	—	**15A958**	—
80 ga	3 in	1,000 ft	C	1	—	**15A930**	—
80 ga	5 in	1,000 ft	C	1	—	**15A909**	—
80 ga	5 in	1,000 ft	C	4	—	**40TE23**	—
80 ga	20 in	1,000 ft	C	1	—	**15A908**	—
80 ga	20 in	1,000 ft	LG	1	—	**15A959**	—
90 ga	20 in	1,000 ft	LG	1	—	**15A960**	—
120 ga	3 in	700 ft	C	1	—	**15A931**	—
120 ga	5 in	700 ft	C	1	—	**15A910**	—
120 ga	20 in	800 ft	LG	1	—	**15A956**	—
150 ga	3 in	600 ft	C	1	—	**15A932**	—
150 ga	5 in	600 ft	C	1	—	**15A911**	—
Reusable Handle Stretch Wrap Films							
70 ga	18 in	1,500 ft	C	1	Good	**15A985**	—
80 ga	3 in	1,000 ft	C	4	—	**15A912**	—
80 ga	3 in	1,000 ft	C	18	—	**15C015**	—
80 ga	5 in	1,000 ft	C	4	—	**15A915**	—
80 ga	5 in	1,000 ft	C	12	—	**15C017**	—
120 ga	2 in	650 ft	C	24	—	**40TE21**	—
120 ga	3 in	700 ft	C	4	—	**15A913**	—
120 ga	3 in	700 ft	C	18	—	**15C020**	—
120 ga	3 in	700 ft	LG	18	—	**15A937**	—
120 ga	5 in	700 ft	C	4	—	**15A916**	—
120 ga	5 in	700 ft	LG	4	—	**15A978**	—
120 ga	5 in	700 ft	C	12	—	**15C016**	—
150 ga	3 in	600 ft	C	4	—	**15A914**	—
150 ga	5 in	600 ft	C	4	—	**15A917**	—
Handle with Brake Stretch Wrap Films							
60 ga	2 in	1,000 ft	LG	24	Good	**15A856**	—
60 ga	20 in	1,000 ft	LG	1	Good	**15A850**	—
70 ga	10 in	1,000 ft	C	4	—	—	**15A833**
70 ga	20 in	1,000 ft	C	4	Good	—	**15A836**
70 ga	30 in	1,000 ft	C	4	Good	**15A840**	—
80 ga	2 in	1,000 ft	LG	4	Good	**15A859**	—
80 ga	3 in	1,000 ft	G	4	Good	**15A888**	—
80 ga	15 in	1,000 ft	P	1	Good	—	**15A844**
80 ga	20 in	1,000 ft	P	1	Good	—	**15A846**
90 ga	3 in	1,000 ft	C	18	Good	**15A902**	—
90 ga	20 in	1,000 ft	LG	1	Good	**15A853**	—
120 ga	3 in	600 ft	P	18	Good	—	**15C009**
120 ga	3 in	650 ft	C	4	Good	**15A895**	—
120 ga	5 in	650 ft	C	4	Good	**15A896**	—
120 ga	20 in	800 ft	C	1	Good	**15A885**	—
120 ga	20 in	800 ft	P	1	Good	—	**15A845**
150 ga	5 in	650 ft	C	4	Good	**15A898**	—

** LG=Light Green. C=Clear. P=Purple. G=Green.*

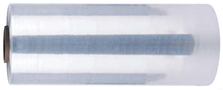
Color-Coding Cast Stretch Wrap Rolls

Standard duty wrap is used to identify and protect uniform bundles. It can help sort and route items, and can be used to indicate tampering or repalleting. It is quieter to apply, and has more cling than blown rolls. It also requires less force to stretch the wrap during application, reducing worker fatigue.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Item No.
80 ga	18 in	1,500 ft	Blue	1 Roll	**15C004**
80 ga	18 in	1,500 ft	Green	1 Roll	**15C006**
80 ga	18 in	1,500 ft	Orange	1 Roll	**15A987**
80 ga	18 in	1,500 ft	Red	1 Roll	**15C007**

15A987

For Stretch Wrap Style and Handle Types, see page 1419.



Blown Wrap

Blown Wrap, Anti-Static

Machine-Grade Stretch Wrap

This wrap is installed on a stretch wrap machine. It comes on larger, heavier rolls than hand-grade wrap. Stretch wrap machines are used in medium- to high-volume packing and shipping applications.

Cast Stretch Wrap Films—The film protects the contents from tampering and damage, and is quieter to apply and has more cling than blown film. It also provides improved clarity over blown film for viewing bundle labeling and requires less force to stretch the wrap during application, reducing worker fatigue.

Blown Stretch Wrap Films—Blown film is less likely than cast film to change shape or stretch after application, which makes it a good choice for heavy, irregular loads with sharp edges.

Blown Anti-Static Stretch Wrap—Used to protect sensitive electronics from electrical shock or static during storage or transportation.

Gauge	Overall Width	Overall Length	Cling Type	Color	Item No.	Rolls per Case
Cast Stretch Wrap Films						
Light Duty						
50	20"	9,000 ft	—	—	**56HR77**	1
50	20"	9,000 ft	—	—	**56HR78**	1
60	20"	7,500 ft	—	—	**56HR79**	1
60	20"	7,500 ft	—	—	**56HR80**	1
60	20"	8,000 ft	1-Side	Clear	**15C011**	1
Standard Duty						
70	20"	6,000 ft	2-Side	Clear	**56HG18**	1
70	20"	6,000 ft	2-Side	Clear	**56HG19**	40
80	12"	5,000 ft	1-Side	Clear	**15C018**	1
80	20"	5,000 ft	1-Side	Clear	**15C012**	1
90	20"	5,000 ft	2-Side	Clear	**56HG27**	1
Heavy Duty						
100	20"	4,500 ft	2-Side	Clear	**56HG28**	40
100	30"	4,500 ft	2-Side	Clear	**56HG29**	1
110	20"	4,000 ft	2-Side	Clear	**56HG30**	1
120	20"	4,000 ft	2-Side	Clear	**56HG31**	1
120	20"	4,000 ft	2-Side	Clear	**56HG32**	1
Blown Stretch Wrap Films						
Light Duty						
60	20"	6,000 ft	2-Side	Clear	**56HG33**	1
Standard Duty						
70	20"	6,000 ft	2-Side	Clear	**56HG34**	1
70	20"	6,000 ft	2-Side	Clear	**36P109**	40
80	20"	5,000 ft	2-Side	Clear	**56HG35**	1
80	20"	6,000 ft	2-Side	Clear	**36P098**	40
80	20"	6,000 ft	—	—	**56HR81**	1
Heavy Duty						
120	20"	4,000 ft	—	—	**56HR84**	1
120	20"	4,000 ft	—	—	**56HR85**	1
Blown Anti-Static Stretch Wrap						
Standard Duty						
80	20"	5,000 ft	2-Side	Red	**55MW24**	1

Extra-Wide Portable Stretch Wrap

Stretch wrap covers more of the pallet than traditional wrap. This reduces the number of times a worker must walk around the pallet to cover it completely, minimizing fatigue and conserving wrap for cost efficiency. Wrap is applied using a rolling dispenser and can easily be wheeled around a facility.

Gauge	Overall Width	Overall Length	Item No.
80 ga	40"	5,000 ft	**56HG15**
80 ga	50"	5,000 ft	**56HG16**
80 ga	60"	5,000 ft	**56HG17**

Pre-Stretched Wrap

Stretch wrap has been mechanically stretched close to the breaking point, then wound onto rolls, requiring less energy to hand wrap around a pallet. Offers consistent wrapping tension, good load stability, and light weight. It can be applied using a walk-forward technique.

Gauge	Overall Width	Overall Length	Cling Type	Rolls per Case	Item No.
25 ga	17"	1,476 ft	2-Side	4 Rolls	**56HG13**
30 ga	15½"	2,000 ft	1-Side	1 Roll	**11Y824**
35 ga	15"	1,476 ft	1-Side	1 Roll	**11Y823**
39 ga	15"	1,476 ft	2-Side	4 Rolls	**56HG14**

GOODWRAPPERS HANDWRAPPERS

Top Sheeting Replacement Roll

Top sheeting is used to cover the top of a pallet before wrapping the sides. Replacement rolls are composed of perforated sheets. They have handles with brake and are smaller than top sheeting rolls, making them ideal for low-volume and hand-wrapping applications.

Sheet Length	Sheet Width	Mil Thickness	Core Size	Color	Sheets per Roll	Rolls per Case	Item No.
60"	60"	1.25 mil	1 in dia	Clear	Continuous Roll	1 Roll	**15C010**

GOODWRAPPERS HANDWRAPPERS

Product-Concealing Stretch Wrap

15A905

Opaque cast wrap provides added security by hiding product labels when shipping sensitive or valuable items. It is a continuous length of plastic that is wrapped around the sides of a pallet or bundle to protect the package from dust and moisture, prevent and indicate tampering, and keep items together.

Handle Opaque Stretch Wrap Films—Wrap has an integrated handle that protects hands from the sharp edges of the core, reduces cuts and abrasions, and eliminates the need to purchase a handle separately.

Hand Opaque Stretch Wrap Films—Wrap is manually wrapped and can be applied with or without a handheld dispenser. These rolls are smaller than machine-grade wrap rolls, making them easier to transport around a facility. Hand-grade wrap is used in low- to moderate-volume wrapping applications and can be used to wrap boxes and irregular loads or bundles, such as lumber.

Machine Opaque Stretch Wrap Films—This wrap comes on a larger roll than hand-grade wrap and is installed on a stretch wrap machine. It is used in medium-to-high volume packing and shipping applications to conceal bundle contents.

Gauge	Overall Width	Overall Length	Color	Rolls per Case	Brand	Item No.
Handle Opaque Stretch Wrap Films						
Handle with Brake						
80 ga	20"	1,000 ft	Black	1 Roll	Goodwrappers	**15A883**
80 ga	20"	1,000 ft	White	1 Roll	Goodwrappers	**15A848**
80 ga	20"	1,000 ft	Black	4 Rolls	Goodwrappers	**15A837**
No Handle						
80 ga	18"	1,500 ft	Black	1 Roll	—	**15C005**
Reusable Handle						
80 ga	3"	1,000 ft	Black	4 Rolls	—	**15A922**
80 ga	3"	1,000 ft	White	4 Rolls	—	**15A923**
80 ga	5"	1,000 ft	Black	4 Rolls	—	**15A928**
80 ga	5"	1,000 ft	White	4 Rolls	—	**15A929**
Hand Opaque Stretch Wrap Films						
Reusable Handle						
80 ga	3"	1,000 ft	White	4 Rolls	Goodwrappers	**15A904**
80 ga	5"	1,000 ft	White	4 Rolls	Goodwrappers	**15A905**
Machine Opaque Stretch Wrap Films						
No Handle						
80 ga	20"	5,000 ft	Black	1 Roll	—	**15C013**

GOODWRAPPERS HANDWRAPPERS

High-Performance Stretch Wrap

Hand-Grade 49XF32

This wrap provides the same strength and puncture resistance at a thinner gauge than standard stretch wrap. It is a continuous length of plastic that is wrapped around the sides of a pallet or bundle to protect the package from dust and moisture, prevent and indicate tampering, and keep items together.

Hand-Grade—Used in low-to-moderate volume wrapping applications or to wrap boxes and irregular loads or bundles, such as lumber.

Machine-Grade—Larger and heavier than hand-grade stretch wrap.

Gauge	Overall Width	Overall Length	Cling Type	Rolls per Case	Brand	Item No.
Hand Grade High Performance Stretch Wrap						
37 ga	17"	1,476 ft	2-Side	4 Rolls	—	**56HG06**
47 ga	12$^{13}/_{16}$"	1,476 ft	1-Side	4 Rolls	Goodwrappers	**49XF32**
48 ga	17"	1,476 ft	2-Side	4 Rolls	—	**56HG07**
65 ga	17"	1,500 ft	2-Side	4 Rolls	—	**56HG08**
75 ga	17"	1,500 ft	2-Side	4 Rolls	—	**56HG09**
Machine Grade High Performance Stretch Wrap						
39 ga	19.7"	11000 ft	1-Side	40 Rolls	—	**21XL04**
39 ga	29.5"	11000 ft	1-Side	20 Rolls	—	**21XL01**
48 ga	19"	9,000 ft	2-Side	1 Roll	—	**56HG10**
55 ga	19"	6,000 ft	2-Side	1 Roll	—	**56HG11**
61 ga	19"	5,500 ft	2-Side	1 Roll	—	**56HG12**

Pallet Covers

These covers fit over loaded pallets to protect the contents from dust, dirt, and debris during transport or storage in a warehouse or loading dock.

Thickness	Color	W	D	H	Item No.	Pkg. Qty.
1.5 mil	Clear	51"	49"	73"	**2EWH5**	100
1.5 mil	Clear	51"	49"	85"	**2EWH6**	100
2 mil	Clear	51"	49"	73"	**2EWJ2**	50
2 mil	Clear	51"	49"	85"	**2EWJ3**	50
2 mil	Clear	55"	45"	73"	**2LCY4**	30
2 mil	Clear	55"	45"	85"	**2LCY5**	25
2 mil	Clear	55"	45"	97"	**2LCY6**	20
2 mil	Clear	68"	65"	82"	**2EWJ4**	50

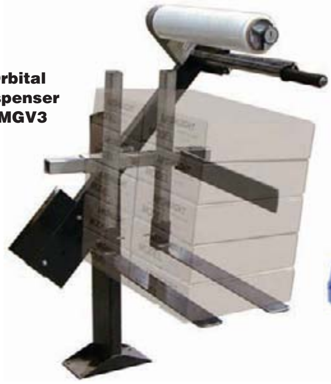
Thickness	Color	W	D	H	Item No.	Pkg. Qty.
3 mil	Black	51"	49"	73"	**2EWJ5**	50
3 mil	Clear	51"	49"	73"	**2EWJ7**	50
3 mil	Clear	51"	49"	85"	**2EWJ8**	50
3 mil	Clear	51"	49"	97"	**2EWJ6**	50
3 mil	Clear	55"	45"	73"	**2LCY7**	20
3 mil	Clear	55"	45"	85"	**2LCY8**	15
3 mil	Clear	55"	45"	97"	**2LCY9**	15
3 mil	Clear	68"	65"	87"	**2EWJ9**	50

Bar Handle Dispenser 5NVZ2

Rope Applicator 29PH62

Stand Up Bar Handle 2TKZ5

Reusable Mini Wrap Handle 5NVZ4



Orbital Dispenser 6MGV3

End Caps 29PH58

Stretch Wrap Dispensers

These dispensers hold stretch wrap rolls, making it easier and quicker to manually apply stretch wrap to pallets and bundles.

Bar Handle Dispensers—Ergonomic handle and grip provide two-handed control when applying wrap. These dispensers are used with larger hand-grade stretch wrap, usually rolls 12" to 20" wide. Handles protect hands from sharp core material and reduce hand fatigue and strain.

Rope Applicators—These applicators apply wrap at full width and have an attachment that can be used to compress the full-width stretch wrap to the thickness of a rope. Stretch rope provides added stability over full-width wrap alone when bundling large or heavy loads.

Stand Up Bar Handles—Long handle allows workers to apply stretch wrap at the bottom of the pallet without stooping or bending at the waist or reaching up to wrap the top of tall pallets. They hold larger stretch wrap rolls, usually 12" to 20" wide.

Reusable Mini-Wrap Handles—Reusable handle and rotating mount allow workers to apply stretch wrap with one hand. The handle protects hands from the sharp edges of the core, reduces hand fatigue, and speeds application. Reusable mini-wrap handles are used with narrow stretch wrap rolls, generally 2" to 5" wide.

Orbital Bundler Dispensers—Manually-operated dispensers hold bundles off the ground while stretch wrap is applied vertically around the bundle. They can hold regular or irregularly shaped bundles. Arms can be adjusted vertically and horizontally to ensure bundles of different sizes are centered when wrapping.

End Caps—Caps are inserted into the stretch wrap roll core and protrude slightly from the core to provide a smooth surface that protects workers' hands from cuts and abrasions caused by sharp core edges. End caps can be removed and reused.

Minimum Roll Width	Maximum Roll Width	Overall Length	Fits Core Size	Dispenser Weight	Brand	Item No.
Bar Handle Dispensers						
12"	18"	18"	3"	4 lb	Highlight	5A414
12"	18"	25"	3"	5 lb	—	9T562
12"	20"	15"	3"	3 lb	—	5NVZ1
12"	20"	24"	3"	5 lb	Encore	29PH59
12"	20"	24"	3"	7 lb	Encore	29PH60
12"	20"	24"	3"	9 lb	Encore	29PH61
12"	20"	18"	1½",-2",-3"	3 lb	—	5NVZ2
18"	72"	18"	3"	60 lb	Encore Packaging Corp.	55KH53
Rope Applicators						
12"	20"	24"	3"	11 lb	Encore	29PH63
12"	20"	24"	3"	12 lb	Encore	29PH62
Stand Up Bar Handles						
11"	20"	60"	3"	3 lb	Nelson Wrap Nwd	2TKZ5
Reusable Mini Wrap Handles						
2"	5"	8"	3"	1 lb	—	5NVZ3
2"	5"	7"	3"	1 lb	—	5NVZ4
Orbital Bundler Dispensers						
12"	18"	40"	3"	132 lb	Highlight	6MGV3
End Caps						
Unlimited	Unlimited	5"	3"	1 lb	—	4TZZ1
Unlimited	Unlimited	3"	3"	1 lb	Encore	29PH58
Unlimited	Unlimited	5"	3"	—	—	3UAX2

5NVZ6

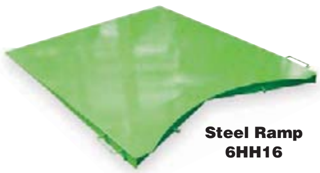
5NVZ5

Stretch Film Cutters

Handheld cutters slice through stretch wrap, bubble rolls, paper, and twine from packages and bundles. They have a recessed blade that cuts long lengths without the stretch wrap jamming the blade. They are also used to cut wrapping from the roll or remove stretch wrap from a bundle.

Overall Length	Brand	Item No.
6½"	—	5NVZ6
7"	Westward	4NZD9
7¹⁄₁₀"	—	5NVZ5
8"	Highlight	8PG33

Stretch Wrap Turntable 3KB50



Steel Ramp 6HH16

Stretch Wrap Machine 3KB51

Stretch Wrap Machines, Turntables, and Ramps

Machines—Rotate the product and apply wrap in one operation, eliminating the need for workers to walk around a pallet, reducing worker fatigue, and freeing them up for other tasks. Use them on loading docks and in storage facilities to wrap pallets with uniform or irregular sides.

Turntables—Electric turntable holds the bundle and slowly rotates while workers stand in one place and hold the wrap. Use stretch wrap turntables on loading docks and in storage facilities to wrap pallets with uniform or irregular sides.

Ramps—Ramps allow operators to use a pallet jack to load heavy pallets onto stretch wrap machines and remove the pallet when wrapping is complete. The jack is pushed up the ramp, providing quick access to the machine table.

Motor HP	Max. Load Length	Max. Load Width	Max. Load Height	For Roll Width	Load Capacity	Current	Item No.
Stretch Wrap Machines							
Manual Machine							
½ hp	52"	52"	80"	12" to 18"	4,000 lb	15 A	6HH17
Semi-Automatic Machine							
¼ hp	52"	52"	80"	20"	4,000 lb	15 A	3KB51
¼ hp	52"	52"	80"	20"	4,000 lb	15 A	6MGU9
¼ hp	52"	52"	110"	20"	4,000 lb	15 A	6MGU8
Stretch Wrap Turntables							
Manual Machine							
¼ hp	52"	52"	80"	12" to 18"	4,000 lb	15 A	3KB50
¾ hp	52"	52"	80"	12" to 18"	4,000 lb	15 A	6MGV1

	L	Item No.
Steel Ramps		
	84 ⅝ in	6MGV0
	55 ¾ in	6HH16

Industrial Single Wound
5URU6

Centerfold, PVC Heat Activated
4LT30

PVC Shrink Tubing
3ZKV2

PVC Shrink Bags
3ZKX8

PVC Shrink Bands
5URV0

Exlfilm plus GPS

Heat-Activated Shrink Wrap Films

Wrap tightly around items to keep them contained during transport or protected against weather. Film shrinks when exposed to heat. Use to protect small packages, loaded pallets, and dry docked boats. For use with heat guns or shrink tunnels, sold separately.

Industrial, Single-Wound Polyethylene Shrink Films—Waterproof, durable, and high puncture and tear resistant. Provides UV protection for up to 9 months. Shrink with propane heat gun, sold separately.

Centerfold Polyolefin Shrink Films—Polyolefin wrap is approved for direct food contact. It forms a skintight protective wrap over packages.

Centerfold PVC Shrink Films—Clear PVC has maximum shrink of 40%. This shrink film is economical for manual applications. It forms a skintight protective wrap over packages.

PVC Shrink Tubing—Provides crystal-clear, skintight wrap around contents. Makes bags of any length.

PVC Domed Shrink Bags—Domed feature provides extra space. Insert package into bag and seal open end.

PVC Shrink Bags—Insert package into bag and seal open end.

PVC Shrink Bands—Fit 4-, 8-, 12-, 16-, 24-, and 32-oz. deli pack containers with 4⅝"-dia. lid. Available clear or clear with red print that reads "Sealed for Your Protection." Preformed with round shape and built-in lip to quickly fit over container lids.

Roll Width	Roll Length	Color	Max. Shrink	Brand	Item No.
Industrial, Single Wound, Polyethylene Shrink Wrap Films					
7 mil Thickness					
20-ft	100 ft	White	30% MD, 30%TD	—	**5URU6**
24-ft	90 ft	White	30% MD, 30%TD	—	**5URU7**
Centerfold, Polyolefin Shrink Wrap Films					
60 ga Thickness					
10"	4,350 ft	Clear	40% MD, 40%TD	—	**5URT4**
10"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ47**
12"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ48**
14"	4,350 ft	Clear	40% MD, 40%TD	—	**5URT6**
14"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ49**
16"	4,350 ft	Clear	40% MD, 40%TD	—	**5URT7**
16"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ50**
18"	4,350 ft	Clear	40% MD, 40%TD	—	**5URT8**
18"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ51**
22"	4,350 ft	Clear	40% MD, 40%TD	—	**5URT9**
22"	4,375 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ52**
75 ga Thickness					
10"	3,500 ft	Clear	40% MD, 40%TD	—	**5URU0**
10"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ53**
12"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ54**
14"	3,500 ft	Clear	40% MD, 40%TD	—	**5URU2**
14"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ55**
16"	3,500 ft	Clear	40% MD, 40%TD	—	**5URU3**
16"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ56**
18"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ57**
22"	3,500 ft	Clear	40% MD, 40%TD	—	**5URU5**
22"	3,500 ft	Clear	65% MD, 65%TD	Gps Shrink Film	**45EJ58**
Centerfold, PVC Shrink Wrap Films					
10"	500 ft	Clear	40% MD, 40%TD	—	**3ZKX2**
10"	2,000 ft	Clear	40% MD, 40%TD	—	**3ZKX3**
12"	500 ft	Clear	40% MD, 40%TD	—	**5ZZ34**
12"	2,000 ft	Clear	40% MD, 40%TD	—	**5URR1**
14"	500 ft	Clear	40% MD, 40%TD	—	**3ZKX4**
14"	2,000 ft	Clear	40% MD, 40%TD	—	**5URR2**
15"	500 ft	Clear	40% MD, 40%TD	—	**4LT30**
15"	2,000 ft	Clear	40% MD, 40%TD	—	**4LT29**
16"	500 ft	Clear	40% MD, 40%TD	—	**5ZZ41**
16"	2,000 ft	Clear	40% MD, 40%TD	—	**3ZKX6**
18"	500 ft	Clear	40% MD, 40%TD	—	**5ZZ44**
18"	2,000 ft	Clear	40% MD, 40%TD	—	**3ZKX7**
22"	500 ft	Clear	40% MD, 40%TD	—	**5ZZ46**
22"	2,000 ft	Clear	40% MD, 40%TD	—	**5URR3**
24"	500 ft	Clear	40% MD, 40%TD	—	**3ZKX5**
24"	2,000 ft	Clear	40% MD, 40%TD	—	**5URR4**
100 ga Thickness					
10"	1,500 ft	Clear	40% MD, 40%TD	—	**5URR5**
12"	1,500 ft	Clear	40% MD, 40%TD	—	**5URR6**
14"	1,500 ft	Clear	40% MD, 40%TD	—	**5URR7**
15"	1,500 ft	Clear	40% MD, 40%TD	—	**5URR8**
16"	1,500 ft	Clear	40% MD, 40%TD	—	**5URR9**
18"	1,500 ft	Clear	40% MD, 40%TD	—	**5URT0**
22"	1,500 ft	Clear	40% MD, 40%TD	—	**5URT1**
26"	500 ft	Clear	40% MD, 40%TD	—	**4LT34**
26"	1,500 ft	Clear	40% MD, 40%TD	—	**4LT33**
30"	1,500 ft	Clear	40% MD, 40%TD	—	**5URT2**
36"	1,500 ft	Clear	40% MD, 40%TD	—	**5URT3**
PVC Shrink Wrap Tubing					
1 mil Thickness					
6"	1,500 ft	Clear	40% MD, 40%TD	—	**5URL0**
100 ga Thickness					
3"	1,500 ft	Clear	40% MD, 40%TD	—	**5URK8**
4"	1,500 ft	Clear	40% MD, 40%TD	—	**5URK9**
8"	1,500 ft	Clear	40% MD, 40%TD	—	**3ZKV3**
10"	1,500 ft	Clear	40% MD, 40%TD	—	**3ZKV2**
18"	1,500 ft	Clear	40% MD, 40%TD	—	**5URL3**

Width	Length	Color	Max. Shrink	Item No.	Pkg. Qty.
PVC Domed Shrink Wrap Bags					
1 mil Thickness					
18 in	20 in	Clear	40% MD, 40%TD	**5URP3**	100
24 in	24 in	Clear	40% MD, 40%TD	**5URP6**	100
26 in	26 in	Clear	40% MD, 40%TD	**5URP7**	100
32 in	29 in	Clear	40% MD, 40%TD	**5URR0**	50
PVC Shrink Wrap Bags					
0.8 mil Thickness					
6 in	6 in	Clear	40% MD, 40%TD	**5URN6**	500
6 ½ in	11 in	Clear	40% MD, 40%TD	**3ZKX8**	500
8 in	12 in	Clear	—	**5ZZ55**	500
8 in	14 in	Clear	40% MD, 40%TD	**5URN7**	100
9 in	12 in	Clear	40% MD, 40%TD	**3ZKX9**	500
9 in	14 in	Clear	40% MD, 40%TD	**5URN8**	500
12 in	16 in	Clear	40% MD, 40%TD	**3ZKY1**	250
12 in	18 in	Clear	40% MD, 40%TD	**5URP0**	250
PVC Shrink Wrap Bands					
7 ½ in	1 in	Clear	10% MD, 40%TD	**5URV0**	5000
7 ½ in	1 in	Clear	10% MD, 40%TD	**5URV1**	5000

SIGNODE®

Standard Steel Strapping

Applied by hand, this strapping secures heavy loads with irregular or rough edges. **Standard-duty**, low-carbon steel strapping is for securing most moderate-to-heavy loads, such as heavy wooden crates. **High-tensile strapping** is used in the railroad industry. It is made of heat-treated high-carbon for use with heavy loads such as cement blocks, lumber, and machinery. **Portable standard-duty** is packaged on smaller rolls in a dispenser box. It is suitable for securing pipe and other quick strapping needs.

5A419

3XG72

52YU47

Strapping Thickness	Break Strength	Strapping Length	Strapping Wind	Core Dia.	Brand	Item No.
Standard-Duty Steel Strapping						
½ in Strapping Width						
0.017"	1,275 lb	300 ft	Ribbon	½"	Signode	**5A419**
	1,275 lb	3,460 ft	Oscillated	16"	Signode	**3XG67**
0.02"	1,170 lb	3,087 ft	Oscillated	16"	Signode	**2CVC3**
	1,180 lb	2,942 ft	Oscillated	16"	—	**3CTU2**
0.023"	1,350 lb	2,558 ft	Oscillated	16"	—	**16P033**
⅝ in Strapping Width						
0.017"	1,625 lb	300 ft	Ribbon	¾"	Signode	**5A422**
	1,625 lb	2,770 ft	Oscillated	16"	Signode	**3XG68**
0.02"	1,460 lb	2,478 ft	Oscillated	16"	Signode	**2CVC4**
	1,470 lb	2,353 ft	Oscillated	16"	—	**3CTU3**
0.023"	1,690 lb	2,046 ft	Oscillated	16"	—	**16P034**
¾ in Strapping Width						
0.017"	1,900 lb	300 ft	Ribbon	⅝"	Signode	**5A425**
	1,900 lb	2,310 ft	Oscillated	16"	Signode	**3XG69**
0.02"	1,750 lb	2,058 ft	Oscillated	16"	Signode	**2CVC5**
	1,765 lb	1,961 ft	Oscillated	16"	—	**3CTU4**
0.023"	1,950 lb	1,795 ft	Oscillated	16"	Signode	**5DVY1**
0.025"	2,770 lb	1,569 ft	Oscillated	16"	—	**3CTU5**
0.029"	3,205 lb	1,330 ft	Oscillated	16"	—	**3CTU6**
1 ¼ in Strapping Width						
0.029"	5,530 lb	811 ft	Ribbon	16"	—	**3CTU7**
High-Tensile Steel Strapping						
½ in Strapping Width						
0.02"	1,525 lb	3,087 ft	Oscillated	16"	Signode	**3XG70**
⅝ in Strapping Width						
0.02"	1,900 lb	2,478 ft	Oscillated	16"	Signode	**3XG71**
¾ in Strapping Width						
0.02"	2,250 lb	2,060 ft	Oscillated	16"	Signode	**1ARZ7**
0.025"	2,800 lb	1,648 ft	Oscillated	16"	Signode	**3XG72**
0.029"	3,400 lb	1,428 ft	Oscillated	16"	Signode	**6AA21**
1 ¼ in Strapping Width						
0.029"	5,400 lb	891 ft	Ribbon	16"	Signode	**3XG74**
Portable Standard-Duty Steel Strapping						
⅜ in Strapping Width						
0.015"	665 lb	300 ft	Ribbon	2"	—	**16P036**
½ in Strapping Width						
0.015"	890 lb	300 ft	Ribbon	2"	—	**16P037**
0.017"	1,275 lb	300 ft	Ribbon	2"	—	**52YU47**
0.02"	1,485 lb	300 ft	Ribbon	2"	—	**16P041**
0.023"	1,350 lb	300 ft	Ribbon	2"	—	**16P038**
⅝ in Strapping Width						
0.02"	1,855 lb	300 ft	Ribbon	2"	—	**16P042**
¾ in Strapping Width						
0.025"	2,770 lb	300 ft	Ribbon	2"	—	**3CTV2**

SIGNODE®

Seals for Steel Strapping

These high-grade galvanized steel seals are pinched tight around strapping ends to secure them in place. A tensioning tool is used to pull the strapping tight and a sealer tool compresses a seal to hold the strapping in place, see page 1424. **Open seals**, sometimes called snap-on or open flange seals, secure steel strapping around flat surfaces, such as boxes and pallets. They have an open face that is placed around the strapping during or after tensioning. **Pusher seals** secure steel strapping around round surfaces such as pipe and rebar. They are installed by threading the strapping through the seal.

Fits Strap Width	Seal Length	Seal Surface Type	Brand	Item No.	Pkg. Qty.
Open Seals					
Regular Duty Seals					
⅜ in	1 ⅛ in	Flat	Signode	**5ZV43**	5000
½ in	1 ¼ in	Flat	—	**3CTV4**	200
	1 ⅛ in	Flat	Signode	**5A420**	200
⅝ in	1 ¼ in	Flat	Signode	**5A423**	200
	1 in	Flat	Signode	**5ZV45**	5000
¾ in	1 ¼ in	Flat	—	**3CTV6**	200
	1 ¼ in	Flat	Signode	**5A426**	200
High Tensile Seals					
¾ in	1 ¾ in	Flat	—	**3CTV7**	500
1 ¼ in	2 ¼ in	Flat	—	**3CTV8**	500
Pusher Seals					
Regular Duty Seals					
½ in	3⁄32 in	Round	—	**52YU63**	2500
High Tensile Seals					
¾ in	1 in	Round	Signode	**5ZV46**	4000
	2 ⅕ in	Round	Signode	**5ZV48**	700
1 ¼ in	2 ⅕ in	Round	Signode	**5ZV47**	700

5A420

5ZV46

3CTW8

SIGNODE®

Steel Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal steel strapping. Wheeled strapping carts store and transport coils and tools around a facility. Tensioners pull strapping tight to ensure a secure fit, sealers apply seals to keep the straps from slipping, and cutters cut strapping to length.

Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Wind	Fits Core Size	Strapping Seal Type	Brand	Item No.
Cart, Tensioner, Sealer, Strapping, Cutter & Seals								
High Tensile								
½"	0.02"	1,180 lb	2,942-ft	Oscillated	16"	500 Open Seals	—	**3CTX1**
½"	0.02"	1,180 lb	2,942-ft	Oscillated	16"	500 Pusher Seals	—	**6LGD7**
¾"	0.02"	1,765 lb	1,961-ft	Oscillated	16"	500 Open Seals	—	**3CUN5**
¾"	0.02"	1,765 lb	1,961-ft	Oscillated	16"	500 Pusher Seals	—	**6LGD9**
⅝"	0.02"	1,470 lb	2,353-ft	Oscillated	16"	500 Open Seals	—	**6LGD6**
Portable Strapping, Tensioner, Sealer, Cutter, Seals & Tool Box								
High Tensile								
½"	0.02"	1,180 lb	400-ft	Oscillated	—	500 Open Seals	—	**3CTW8**
¾"	0.02"	1,765 lb	400-ft	Oscillated	—	500 Open Seals	—	**3CTW9**
⅝"	0.02"	1,470 lb	400-ft	Oscillated	—	500 Open Seals	—	**6LGE0**

Fits Strap Width	Strapping Wind	Strapping Seal Type	Fits Core Size	Brand	Item No.
Cart, Tensioner, Sealer & Cutter					
Standard					
½"	Oscillated	Open Seals	16"	Signode	**53YJ81**
⅝"	Oscillated	Open Seals	16"	Signode	**53YJ82**
High Tensile					
1¼"	Ribbon	Closed Seals	16"	Signode	**6BY67**

Thickness	Fits Strap Width	Brand	Item No.
Tensioner, Sealer, Dispenser & Cutter			
0.035 in	½"	—	**66DK11**
	⅝"	—	**66DK12**
	¾"	—	**66DK14**

SIGNODE® CARISTRAP MIP Midwest Industrial Packaging

Strapping Carts

Carts secure coils through the core, so operators can pull strapping off the coil as needed. Wheels allow operators to move the carts around worksites. A brake stops the roll from turning or unwinding when not in use. A built-in bucket or tray holds tools and seals. **Carts for Plastic** hold polyester and polypropyene strapping coils. They are not compatible with steel or poly cord strapping coils. **Carts for Poly cord** are sized to hold poly cord strapping coils and are not compatible with steel, polyester, or polypropylene strapping coils. **Carts for Steel** hold core sizes and widths of steel strapping coils and are not compatible with plastic or poly cord strapping coils. **Carts for Plastic and Steel** feature an extension bar that holds wider cores than those generally found on steel strapping. They are for steel, polyester, and polypropylene strapping coils and are not compatible with poly cord strapping coils.

2CVC1

4BU76

48UY02

Min. Strapping Width	Max. Strapping Width	Strapping Wind	Fits Core Size	Brand	Item No.
Strapping Carts for Plastic Strapping					
Standard Duty					
⅜"	¾"	Oscillated	16" Dia	Signode	**2CVC1**
7⁄16"	½"	Oscillated	6" Dia	Signode	**4BU78**
Strapping Cart for Poly Cord Strapping					
Standard Duty					
½"	1½"	Oscillated	3" Dia	Caristrap	**4DXA9**
Strapping Carts for Steel Strapping					
Standard Duty					
⅜"	¾"	Oscillated	16" Dia	Signode	**4BU76**
¾"	1¼"	Ribbon	8" Dia	Signode	**4BU77**
Strapping Carts for Plastic and Steel Strapping					
Standard Duty					
⅜"	¾"	Oscillated	16" Dia	Mip	**4CHV8**
Heavy Duty					
½"	1¼"	Oscillated	16" Dia	—	**48UY02**

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Cutter Tools for Steel Strapping

Cut off excess strapping to reduce the risk of injury caused by sharp edges. Strapping band cutters are used to cut steel and zinc-coated steel strapping to length, trim ends, and cut strapping free after it's been secured.

1-Handed—Use on light- to medium-duty strapping. One-handed operation keeps the opposite hand free.

2-Handed—Use with medium- to heavy-duty and high-tensile strength steel and zinc-coated steel strapping. Two-handed operation provides the extra power needed for quick cuts.

Fits Strap Width	Fits Strap Tensile	Overall Length	Tool Wt.	Brand	Item No.
1-Handed Cutter Tools					
Standard Duty					
⅜ in to ¾ in	.015 to .031	12 in	3 lb	Mip	**5ZW75**
Heavy Duty					
⅜ in to 1 ¼ in	.035	11 ¼ in	2 lb	—	**3CTX4**
¾ in	.035	9 in	1 lb	—	**3CTX3**
¾ in	.035	9 in	1 lb	Crescent H.K. Porter	**6A217**
1 ¼ in	.035	12 in	2 lb	—	**52YU76**
1 ¼ in	.050	12 in	2 lb	Crescent H.K. Porter	**6A218**
2-Handed Cutter Tools					
Heavy Duty					
¾ in to 2 in	.015 to .050	24 in	8 lb	Mip	**5ZW77**
2 in	.050	24 in	6 lb	—	**52YU72**
2 in	.050	24 in	7 lb	Crescent H.K. Porter	**6A219**
2 in	.050	30 in	8 lb	Signode	**1ATA2**

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Combination Tools for Steel Strapping

These tools tension, seal, and cut steel and zinc-coated steel strapping in a single operation, eliminating the need to use different tools for each operation. They are used in medium- to high-volume applications to speed the processing and reduce operator fatigue over using separate tools to perform the same functions. Combination tools can be used on flat or round surfaces such as bundles and pipe.

Manual—Manually-operated tools can be brought to the work location and do not require an external power source or attachments, so are often used in applications where access to a power source is limited.

Pneumatic—Air-powered combination tools, are powered by a compressed air system. They speed the operation and reduce operator fatigue compared to manually-operated combination tools.

Fits Strap Width	Fits Strap Tensile	Tool Joint Type	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Combination Tools						
Feedwheel						
½ in to ¾ in	1350 lb	Sealless	Flat	8 lb	—	**52YU73**
Sealless						
½ in	.023	3 Key Locking	Flat	8 lb	Signode	**4NLJ7**
½ in	.015 to .025	3 Key Locking	Flat	9 lb	Mip	**16P173**
⅝ in	.023	3 Key Locking	—	8 lb	Signode	**4NLJ8**
⅝ in	.015 to .025	3 Key Locking	Flat	9 lb	Mip	**16P174**
¾ in	.015 to .025	3 Key Locking	Flat	9 lb	Mip	**16P175**
Pneumatic Combination Tools						
Pusher						
¾ in	.025	Single Notch	Round	11 lb	Signode	**3XH05**

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Sealer Tools for Steel Strapping

Crimp and secure strapping seals for steel and zinc-coated steel strapping. Strapping is wrapped around a bundle or package and tightened, then a seal is crimped in place using a sealer tool.

Manual—Use for low-volume applications or where access to an external power source is limited. They can be carried to the work location. The operator squeezes a lever to crimp and press the seal in place.

Pneumatic—Also called air-powered sealers, these tools connect to a compressed air system to automatically apply seals to steel strapping in medium-to-high volume applications. They can be used on flat and round surfaces, such as pallets and pipe, and are compatible with all seal sizes and strapping strengths.

Tool Action	Fits Strap Width	Fits Strap Tensile	Tool Seal Type	Tool Joint Type	Brand	Item No.
Manual Sealer Tools						
Standard Duty						
Front Action	⅜ in	665 lb	Open Seals	Double Down Notch	—	**52YU53**
	½ in	.015 to .023	Push Type Seals	Single Notch	Mip	**5ZW65**
	½ in	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW62**
	½ in	.023	Open Seals	Double Notch	Signode	**5A421**
	½ in	.023	Open Seals	—	Signode	**3XG96**
	½ in	1350 lb	Open Seals	Double Down Notch	—	**3CUN9**
	½ in	1350 lb	Pusher Seals	Single Up Notch	—	**52YU66**
	⅝ in	.015 to .023	Push Type Seals	Single Notch	Mip	**5ZW68**
	⅝ in	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW64**
	⅝ in	.023	Open Seals	Double Notch	Signode	**5A424**
	⅝ in	.023	Open Seals	—	Signode	**3XG97**
	⅝ in	1690 lb	Open Seals	Double Down Notch	—	**3CUP1**
	⅝ in	1690 lb	Pusher Seals	Single Up Notch	—	**52YU67**
	¾ in	.015 to .023	Push Type Seals	Single Notch	Mip	**5ZW66**
	¾ in	.015 to .023	Snap On Seals	Double Notch	Mip	**5ZW63**
	¾ in	.023	Open Seals	Double Notch	Signode	**5A427**
	¾ in	.023	Open Seals	—	Signode	**5ZV49**
	¾ in	2025 lb	Pusher Seals	Single Up Notch	—	**52YU68**
Heavy Duty						
Front Action	¾ in	3205 lb	Open Seals	Double Down Notch	—	**3CUP2**
Side Action	¾ in	.025 to .031	Snap On Seals	Double Notch	Mip	**5ZW80**
	¾ in	.031	Pusher Seals	Double Notch	Signode	**3XG98**
	¾ in	3205 lb	Open Seals	Single Down Notch	—	**52YU71**
	1 ¼ in	.025 to .031	Snap On Seals	Double Notch	Mip	**5ZW79**
	1 ¼ in	.031	Pusher Seals	Double Notch	Signode	**3XG99**
	1 ¼ in	5530 lb	Pusher Seals	Double Up Notch	—	**52YU69**
	1 ¼ in	5531 lb	Open Seals	Single Down Notch	—	**52YU70**
Pneumatic Sealer Tools						
Heavy Duty						
Front Action	¾ in	.031	Pusher Seals	Single Notch	Signode	**1ARZ9**
	1 ¼ in	.031	Pusher Seals	Single Notch	Signode	**1ATA1**

SIGNODE

Tensioner Tools for Steel Strapping

Pull the ends of the strapping to secure the strap around the bundle before sealing the ends together.

Manual—These tools can be brought to the work location and do not require an external power source or attachments. They are used for low-volume applications. The operator pushes a lever to tighten straps before a seal is applied using a sealing tool.

Pneumatic—Also called an air-powered tensioner, this tool connects to a compressed air system to secure the ends of steel strapping in medium- to high-volume strapping applications. The operator presses a button or squeezes a lever and the tool automatically tightens the steel strapping, speeding operation and reducing fatigue. It can be used on flat or round surfaces, including bundles and pipe.

Fits Strap Width	Fits Strap Tensile	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Tensioner Tools					
Standard Duty					
½ in to ¾ in	890 to 2025 lb	Flat	7 lb	—	**3CUN7**
⅝ in to ¾ in	.035	Flat	5 lb	Signode	**3XG89**
Heavy Duty					
⅜ in to ¾ in	.023	Flat		Signode	**3XG90**
⅜ in to ¾ in	.018 to .025	Flat	6 lb	Encore	**49H258**
⅜ in to ¾ in	.023	Round	4 lb	Signode	**3XG91**
¾ in to 1 ¼ in	.031	Flat	7 lb	Signode	**3XG93**
¾ in to 1 ¼ in	.035	—	7 lb	Signode	**3XG92**
Pneumatic Tensioner Tool					
Heavy Duty					
¾ in to 1 ¼ in	.044	Round	8 lb	Signode	**3XH07**

Poly Cord Strapping

Embedded cords provide more strength and higher resistance to shock and tearing than standard polyester. Poly cord is similar in strength to steel strapping but is more flexible. It does not scratch or mar surfaces and is more resistant to shock. It won't rust and withstands temperature changes when used outdoors. The ends are secured using a handle tie or sealed with a strapping buckle, seal, friction weld, or heat. Apply and seal using a strapping machine or manually-operated tools.

Nonwoven—Light-duty strapping (sometimes called composite strapping) has embedded fibers along its length to resist snapping and tearing when securing lightweight boxes, papers, and magazines.

Woven—This nonmarring cord is used to secure heavier loads than nonwoven poly cord. Fibers run the length of the strapping and across the strapping to provide added strength and resistance to breaking. Use to secure bundles of brick, stone, and steel.

Break Strength	Overall Length	Color	Strapping Width	Core Width	Core Size	Coil Width	Brand	Item No.	Pkg. Qty.
Nonwoven Poly Cord Strapping									
½ in Strap Width									
1,279 lb	3,623 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWT9**	2
⅝ in Strap Width									
1,225 lb	1,960 ft	White	⅝ in	8 in	8 in Dia	8"	—	**16P073**	1
1,627 lb	2,843 ft	Natural	⅝ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWU3**	2
¾ in Strap Width									
1,400 lb	1,640 ft	White	¾ in	8 in	8 in Dia	8"	—	**16P074**	1
1,830 lb	1,640 ft	Natural	¾ in	5 ½ in	3 in Dia	11½"	Caristrap	**4DWZ8**	2
2,130 lb	2,423 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWT7**	2
1 in Strap Width									
2,811 lb	1,647 ft	Natural	1 in	5 ½ in	3 in Dia	16"	Caristrap	**4DWT8**	2
1 ¼ in Strap Width									
3,527 lb	525 ft	Natural	1 ¼ in	1 ¼ in	3½ in Dia	18"	Caristrap	**4DXA1**	2
3,527 lb	1,082 ft	Natural	1 ¼ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWU8**	2
1 ½ in Strap Width									
5,401 lb	892 ft	Natural	1 ½ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWU2**	2
Woven Poly Cord Strapping									
¼ in Strap Width									
350 lb	7,800 ft	White	¼ in	6 in	4 in Dia	6"	—	**40TP73**	1
⅜ in Strap Width									
525 lb	5,250 ft	White	⅜ in	6 in	4 in Dia	6"	—	**16P066**	1
½ in Strap Width									
650 lb	1,500 ft	White	½ in	6 in	4 in Dia	6"	—	**16P067**	1
700 lb	3,900 ft	White	½ in	6 in	4 in Dia	6"	—	**16P068**	1
1,279 lb	3,624 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY4**	2
1,528 lb	3,085 ft	Natural	½ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY5**	2
⅝ in Strap Width									
850 lb	3,000 ft	White	⅝ in	6 in	4 in Dia	6"	—	**16P069**	1
1,623 lb	2,910 ft	Natural	⅝ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY7**	2
¾ in Strap Width									
1,050 lb	2,100 ft	White	¾ in	6 in	4 in Dia	6"	—	**16P070**	1
1,830 lb	1,320 ft	White	¾ in	6 in	4 in Dia	5"	—	**2CXP8**	1
1,830 lb	1,640 ft	Natural	¾ in	5 ½ in	3 in Dia	11½"	Caristrap	**4DWY2**	2
2,248 lb	2,056 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWY9**	2
2,500 lb	250 ft	White	¾ in	6 in	3½ in Dia	6"	—	**16P071**	1
3,450 lb	1,332 ft	Natural	¾ in	5 ½ in	3 in Dia	13½"	Caristrap	**4DWZ2**	2
1 ¼ in Strap Width									
3,285 lb	330 ft	White	1 ¼ in	1 ¼ in	—	1¼"	—	**2CXP9**	1
3,527 lb	525 ft	Green	1 ¼ in	1 ¼ in	3½ in Dia	18"	Caristrap	**4DWZ3**	2
3,527 lb	1,083 ft	Green	1 ¼ in	5 ½ in	3 in Dia	15"	Caristrap	**4DWZ5**	2
1 ½ in Strap Width									
5,400 lb	479 ft	Blue	1 ½ in	1 ½ in	3½ in Dia	19½"	Caristrap	**4DWY6**	2

Buckles for Poly Cord Strapping

Metal buckles maintain tension on poly cord strapping. Each end of the strapping is wrapped around the buckle and tightened using a tensioning tool. The buckles use strap tension to hold strapping in place and do not require sealing. They have a phosphated seal finish. **Standard-duty buckles** secure poly strapping in light-to-medium weight strapping applications. **Heavy-duty buckles** resist corrosion and secure poly strapping in medium- to heavy-duty applications, such as securing lumber, bricks, stone, metal, and pallets.

Fits Strap Width	Seal Inside Width	Seal Applic.	Brand	Item No.	Pkg. Qty.
Standard Duty Buckles					
⅝"	⅝ in	Regular Duty Tension	Caristrap	**4DXC8**	1000
¾"	¾ in	Regular to Heavy Duty Tension	Caristrap	**4DXC2**	1000
Heavy Duty Buckles					
¾"	¾ in	Heavy Duty Seals	—	**2CXR1**	1000
¾"	¾ in	Extra Heavy, Special Duty Tension	Caristrap	**4DXC3**	500
1 ½"	1 in	Special Duty Tension	Caristrap	**4DXC7**	200
1"	1 in	Heavy Duty Tension	Caristrap	**4DXC5**	500
1 ¼"	1 ¼ in	Heavy Duty Seals	—	**2CXR2**	250
1 ¼"	1 ¼ in	Extra Heavy Duty Tension	Caristrap	**4DXC6**	250

Poly Cord Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal poly cord strapping. **Metal buckles** secure heavy products such as lumber, bricks, stone, or metal. **Plastic buckles** resist corrosion, won't scratch packages, and are ideal for bundles shipped using the U.S. Postal Service. **Strapping, tensioner, buckles, and tool box** kit lets your wrap strapping around a box, bundle, or item and then wrap each end of the strapping around the buckle. Pull the strapping tight using a tensioner. Buckles use strap tension to hold strapping in place and do not require sealing. Tool boxes hold and transport all necessary items.

Fits Strap Width	Thickness	Break Strength	Strapping Length	Core Dia.	Color	Coil Width	Brand	Item No.
Strapping and Metal Buckles								
½ in	29.9 mil	1,279 lb	820 ft	3"	Natural	13½"	Caristrap	**4DWX5**
½ in	32.2 mil	1,276 lb	820 ft	3"	Natural	13½"	Caristrap	**4DWX3**
⅝ in	29.9 mil	1,623 lb	820 ft	3"	Natural	13½"	Caristrap	**4DWX6**
⅝ in	32.2 mil	1,623 lb	820 ft	3"	Natural	13½"	Caristrap	**4DWX4**
Standard								
½ in	0.018 in	300 lb	17 ft	—	Black	—	—	**16P025**
Strapping and Plastic Buckles								
Standard								
½ in	0.018 in	300 lb	17 ft	—	White	—	—	**16P026**
Strapping, Tensioner, Buckles and Tool Box								
¾ in	29.9 mil	1,830 lb	1,640 ft	3"	Natural	11½"	Caristrap	**4DXD4**
High Tensile								
¾ in	0.05 in	2,500 lb	250 ft	3½"	Orange	6"	—	**3CUN6**

Tools for Poly Cord Strapping

Tension and cut strapping after it has been threaded through a buckle. Correct tensioning ensures bundles or packages stay secure. **Manual tools** can be carried to a work location. They do not require an external power source or attachments, so are often used in low-volume applications where access to a power source is limited. **Battery tool** is rechargeable and easily moved around a worksite. **Pneumatic tool** speeds processing and reduces fatigue compared to manual tools when used in medium-to-high volume settings.

Fits Strap Tensile	Fits Strap Width	Seal Surface Type	Tool Wt.	Brand	Item No.
Manual Tools					
Standard Duty					
2811 ft-lb	¼ in to ¾ in	Flat	3 lb	Caristrap	**4DXA4**
.020 to .031	½ in to ¾ in	Flat	4 lb	Mip	**5ZW81**
Heavy Duty					
.070	½ in to ¾ in	Flat	4 lb	Teknika	**49NT97**
.020 to .040	½ in to ¾ in	Flat	5 lb	Mip	**5ZW82**
5400 lb	½ in to 1 ½ in	Flat	6 lb	—	**2CXR3**
5400 ft-lb	¾ in to 1 ½ in	Flat	4 lb	Caristrap	**4DXA6**
	¾ in to 1 ½ in	Round	5 lb	Caristrap	**4DXA7**
Battery Tool					
Standard Duty					
.040	½ in to ¾ in	—	13 lb	Orgapack	**55NV92**
Pneumatic Tool					
Heavy Duty					
5400 lb	¾ in to 1 ½ in	Flat	10 lb	Caristrap	**4DXA8**

33RZ08

33RZ01

Polyester Strapping

These coils secure lumber, heavy pallets, and other medium-to-large loads for storage and shipment. Polyester construction is noncorrosive so it will not damage surfaces. It is a safer alternative to steel and is more rigid and stretches less than polypropylene strapping, allowing it to retain tension over time. Polyester strapping is stronger than polypropylene strapping, but has less overall strength than stainless steel strapping. Apply strapping using manually-operated strapping tools or a strapping machine.

Hand-Grade—Manually apply to lumber, heavy pallets, and other medium-to-large loads. This strapping is generally used in low-to-moderate volume applications. It is secured using tensioning tools, seals, and sealers.

Machine-Grade—This strapping does not require seals. Automatic strapping machines are used in moderate-to-high volume applications.

Strapping Width	Thickness	Break Strength	Overall Length	Color	Core Size	Coil Width	Item No.
Hand Grade Polyester Strapping							
Standard Duty							
7⁄16 in	0.021 in	500 lb	300 ft	Green	—	1"	**33RZ07**
½ in	0.02 in	600 lb	3,600 ft	Black	16 in Dia	3"	**2CXK5**
	0.025 in	775 lb	2,900 ft	Black	16 in Dia	3"	**2CXK8**
	0.028 in	820 lb	300 ft	Green	—	1"	**33RZ08**
	0.028 in	825 lb	300 ft	Green	1 in Dia	½"	**6LGA7**
⅝ in	0.03 in	1,100 lb	300 ft	Green	1 in Dia	⅝"	**6LGA9**
	0.03 in	1,100 lb	1,800 ft	Black	16 in Dia	3"	**2CXL1**
Heavy Duty							
⅝ in	0.05 in	1,400 lb	300 ft	Green	—	1"	**33RZ09**
¾ in	0.035 in	2,500 lb	200 ft	Green	—	1"	**33RZ10**
Machine Grade Polyester Strapping							
Standard Duty							
7⁄16 in	0.021 in	460 lb	11,550 ft	Green	16 in Dia	6"	**33RZ18**
½ in	0.018 in	500 lb	10,500 ft	Green	16 in Dia	6"	**33RZ20**
	0.02 in	600 lb	7,200 ft	Black	16 in Dia	6"	**2CXK4**
	0.02 in	600 lb	7,200 ft	Green	16 in Dia	6"	**2CXK3**
	0.021 in	600 lb	9,000 ft	Green	16 in Dia	6"	**16P050**
	0.025 in	650 lb	7,200 ft	Green	16 in Dia	6"	**5JPR3**
	0.025 in	775 lb	5,800 ft	Black	16 in Dia	6"	**2CXK7**
	0.025 in	775 lb	5,800 ft	Green	16 in Dia	6"	**2CXK6**
	0.028 in	820 lb	6,500 ft	Green	16 in Dia	6"	**33RZ01**
⅝ in	0.025 in	900 lb	4,400 ft	Black	16 in Dia	6"	**16P052**
	0.025 in	900 lb	4,400 ft	Green	16 in Dia	6"	**16P053**
	0.03 in	1,100 lb	3,600 ft	Black	16 in Dia	6"	**2CXK9**
	0.03 in	1,100 lb	3,600 ft	Green	16 in Dia	6"	**33RZ14**
Heavy Duty							
⅝ in	0.035 in	1,300 lb	4,000 ft	Black	16 in Dia	6"	**33RZ13**
	0.035 in	1,400 lb	4,000 ft	Black	16 in Dia	6"	**16P055**
	0.035 in	1,400 lb	4,000 ft	Green	16 in Dia	6"	**2CXL2**
	0.035 in	1,400 lb	4,000 ft	Green	16 in Dia	6"	**16P054**
	0.035 in	1,400 lb	4,000 ft	Green	16 in Dia	6"	**33RZ19**
	0.04 in	1,500 lb	4,000 ft	Green	16 in Dia	6"	**5JPR5**
	0.04 in	1,600 lb	4,000 ft	Black	16 in Dia	6"	**16P057**
	0.04 in	1,600 lb	4,000 ft	Black	16 in Dia	16"	**41P109**
	0.04 in	1,600 lb	4,000 ft	Green	16 in Dia	6"	**5JPR1**
	0.04 in	1,600 lb	4,999 ft	Green	16 in Dia	6"	**16P056**
¾ in	0.04 in	1,800 lb	3,000 ft	Green	16 in Dia	6"	**5JPR6**
	0.04 in	1,900 lb	3,000 ft	Black	16 in Dia	6"	**3HJZ5**
	0.04 in	1,900 lb	3,000 ft	Green	16 in Dia	6"	**5JPR2**
	0.05 in	2,500 lb	2,400 ft	Green	16 in Dia	6"	**33RZ04**
1 in	0.04 in	2,500 lb	2,200 ft	Green	16 in Dia	6"	**16P060**

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MIP Midwest Industrial Packaging

2MPX8

2CXP5

Seals for Polyester Strapping

A textured surface grips the smooth polyester surface to prevent the strapping from slipping and losing tension. Secure seals using a manual strapping sealer.

Open—These seals secure polyester strapping on flat surfaces. They are placed over the strapping during or after tensioning and can be used where high-tensile strength is needed.

Gripper—Sometimes called serrated seals, these gripper-style seals have barbs that grip the polyester strapping.

Fits Strap Width	Seal Length	Brand	Item No.	Pkg. Qty.
Open Seals				
Regular Duty Seals				
½ in	¾ in	Signode	**3A133**	500
⅝ in	1 ½ in	Signode	**6BY60**	1000
¾ in	2 ⅛ in	Signode	**2MPX8**	1000
Gripper Seals				
Heavy Duty Polyester				
¾ in	1 ¼ in	Mip	**16P176**	1000
Heavy Duty Seals				
½ in	1 13⁄64 in	—	**2CXP5**	1000
⅝ in	1 13⁄64 in	—	**2CXP6**	1000
¾ in	1 ¼ in	—	**16P031**	250
¾ in	1 ¼ in	—	**40TP76**	1000

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16P170 16P077

Sealer Tools for Polyester Strapping

These manually-operated tools apply pressure to crimp and secure strapping seals to polyester strapping.

Standard-Duty—These tools have shorter handles and apply less pressure than heavy-duty sealer tools. They crimp and secure strapping standard-duty seals.

Heavy-Duty—Longer handles for the pressure required when working with heavy-duty strapping and seals. They crimp standard and heavy seals.

Fits Strap Width	Fits Strap Tensile	Overall Length	Handle Length	Tool Joint Type	Brand	Item No.
Standard-Duty						
½ in	.020	—	—	Crimp	Signode	**3A124**
½ in	600 to 820 lb	19 ½ in	17 in	Crimp	—	**2CXN5**
Heavy-Duty						
½ in	.028 to .050	19 in	17 in	Serrated Crimp	MIP	**16P170**
⅝ in	.028 to .050	21 in	17 in	Serrated Crimp	MIP	**16P171**
⅝ in	750 to 1100 lb	19 ½ in	17 in	Crimp	—	**2CXN6**
¾ in	.028 to .050	19 in	17 in	Serrated Crimp	MIP	**16P172**
¾ in	1900 to 2500 lb	19 ½ in	17 in	Crimp	—	**40TP77**
¾ in	1100 to 1900 lb	23 in	20 in	Crimp	—	**16P077**

SIGNODE

49H257

Manual Tensioner Tools for Polyester Strapping

- Flat seal surface type

Tighten the strapping before securing it using a seal and sealing tool. Correct tensioning prevents damage caused by over tensioning, and keeps bundles and packages secure.

9ADJ5

Tensioner Type	Fits Strap Width	Fits Strap Tensile	Seal Surface Type	Tool Wt.	Brand	Item No.
Regular Duty						
—	½ in	.020	Flat	1 lb	Signode	**3A083**
Feedwheel Tensioner	½ in	.020	Flat	4 lb	Signode	**3XG94**
Windlass Tensioner	½ in to ¾ in	.015 to .050	Flat	5 lb	Encore	**49H257**
Windlass Tensioner	½ in to ⅝ in	.040	Flat	—	Signode	**4FKW5**
Windlass Tensioner	⅝ in to ¾ in	.050	Flat	9 lb	Signode	**4FKW6**
Heavy Duty						
Windlass Tensioner	½ in to ¾ in	1900 lb	Flat	4 lb	—	**9ADJ5**

SIGNODE
PAC Strapping Products Inc.
FROMM PACKAGING SYSTEMS

196ZF3

16P078

Combination Tools for Polyester Strapping

- Friction weld joint type

Tension, seal, and cut strapping in a single operation, eliminating the need to use a different tool for each operation. Combination tools can be used on flat or round surfaces, and are used in medium-to-high volume applications.

Battery—A rechargeable battery allows the tool to be easily moved around a worksite. One-hand operation with no need for external attachments or power sources.

Pneumatic—Also called air-powered combination tools, these pneumatic tools are powered by a compressed air system. They can be operated with one hand.

Fits Strap Width	Fits Strap Tensile	Tool Tension Capacity	Battery Voltage	Pressure	Brand	Item No.
Battery Combination Tools						
½ in, ⅝ in	—	550 lb	18 V	—	Signode	**429T82**
¾ in	.042 to .053	900 lb	18 V	—	Fromm	**45HY87**
¾ in	.047 to .060	1,575 lb	36 V	—	Pac Strapping	**40TP70**
¾ in, ⅝ in	—	900 lb	18 V	—	Signode	**429T83**
⅝ in	.023 to .053	880 lb	18 V	—	Pac Strapping	**196ZF3**
Pneumatic Combination Tools						
⅜ in	.020 to .035	450 lb	—	70 to 99 psi	Pac Strapping	**40TP65**
⅜ in to ½ in	.025	180 lb	—	—	Signode	**16W206**
⅝ in	.035	800 lb	—	85 to 90 psi	Signode	**6ZGA4**
⅝ in	.040 to .055	1,250 lb	—	70 to 99 psi	Pac Strapping	**40TP53**
1 in	.040 to .055	1,280 lb	—	70 to 99 psi	Pac Strapping	**16P078**

2CXH1

2CXJ1

SIGNODE®

Polypropylene Strapping

Sometimes called poly strapping, these lightweight bands are used to bundle newspapers, seal and bundle cartons, and secure light loads. The embossed surface makes the strapping flexible so it's easier to bend around edges and irregular shapes.

Hand-Grade—Secure using hand-operated tensioning tools, seals, and sealers. Generally used in low-to-moderate volume applications.

Machine-Grade—Applied using a strapping machine, these bands do not require seals. Strapping machines are used in moderate-to-high volume applications.

Strapping Width	Thickness	Break Strength	Overall Length	Color	Core Size	Coil Width	Brand	Item No.	Pkg. Qty.
Hand-Grade Polypropylene Strapping									
Standard-Duty									
7⁄16 in	0.023 in	500 lb	300 ft	Black	1 in Dia	7⁄16"	—	**6LFZ4**	1
½ in	0.018 in	300 lb	4,500 ft	Black	16 in Dia	3"	—	**2CXG9**	1
	0.018 in	300 lb	9,000 ft	Black	8 in Dia	8"	—	**6LGA0**	1
	0.018 in	300 lb	9,000 ft	Black	16 in Dia	6"	—	**2CXH1**	1
	0.022 in	400 lb	9,000 ft	Black	8 in Dia	8"	—	**6LFZ8**	1
	0.022 in	400 lb	9,000 ft	Black	16 in Dia	6"	—	**6LFZ7**	1
	0.022 in	500 lb	300 ft	Black	1 in Dia	½"	—	**6LFZ5**	1
	0.026 in	500 lb	3,600 ft	Black	16 in Dia	3"	—	**2CXH2**	1
	0.026 in	500 lb	7,200 ft	Black	8 in Dia	8"	—	**6LGA1**	1
	0.026 in	500 lb	7,200 ft	Black	16 in Dia	6"	—	**2CXH3**	1
	0.026 in	600 lb	300 ft	Black	1 in Dia	½"	—	**6LFZ6**	1
	0.03 in	600 lb	3,600 ft	Black	16 in Dia	3"	—	**2CXH4**	1
	0.03 in	600 lb	7,200 ft	Black	8 in Dia	8"	—	**6LGA2**	1
	0.03 in	600 lb	7,200 ft	Black	16 in Dia	6"	—	**2CXH5**	1
	0.037 in	750 lb	5,575 ft	Black	16 in Dia	6"	—	**6LGA3**	1
⅝ in	0.028 in	700 lb	3,000 ft	Black	16 in Dia	3"	—	**2CXH6**	1
	0.028 in	700 lb	6,000 ft	Black	16 in Dia	6"	—	**2CXH7**	1
Heavy-Duty									
⅝ in	0.032 in	1,000 lb	3,500 ft	Black	6 in Dia	16"	—	**41P038**	24
	0.033 in	1,000 lb	2,200 ft	Black	16 in Dia	3"	—	**16P049**	1
	0.033 in	1,000 lb	3,500 ft	Black	16 in Dia	6"	—	**16P048**	1
¾ in	0.033 in	1,000 lb	2,200 ft	Black	16 in Dia	3"	—	**6LGA6**	1
	0.033 in	1,000 lb	4,500 ft	Black	8 in Dia	8"	—	**6LGA5**	1
	0.033 in	1,000 lb	4,500 ft	Black	16 in Dia	6"	—	**6LGA4**	1
Machine-Grade Polypropylene Strapping									
Standard-Duty									
3⁄16 in	0.012 in	100 lb	30,000 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**4AYT7**	1
¼ in	0.012 in	150 lb	24,000 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**4AYT8**	1
	0.016 in	200 lb	18,000 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**2MPV9**	1
	0.016 in	200 lb	18,000 ft	Yellow	7⅞ in Dia	7 13⁄16"	Signode	**3XG63**	1
	0.024 in	200 lb	18,000 ft	Clear	8 in Dia	8"	—	**6LGC7**	1
	0.024 in	200 lb	18,000 ft	White	8 in Dia	8"	—	**6LGC8**	1
⅜ in	0.013 in	225 lb	16,000 ft	Black	7⅞ in Dia	7 13⁄16"	Signode	**4AYU1**	1
	0.013 in	225 lb	16,000 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**4AYT9**	1
	0.016 in	300 lb	12,000 ft	Black	7⅞ in Dia	7 13⁄16"	Signode	**3XG64**	1
	0.016 in	300 lb	12,000 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**2MPW1**	1
	0.022 in	300 lb	12,900 ft	White	8 in Dia	8"	—	**2CXH8**	1
	0.022 in	300 lb	12,900 ft	White	9 in Dia	8"	—	**2CXH9**	1
	0.024 in	250 lb	12,900 ft	White	8 in Dia	8"	Signode	**4PU41**	1
7⁄16 in	0.02 in	400 lb	10,500 ft	Black	16 in Dia	6"	—	**2CXJ5**	1
	0.023 in	500 lb	7,500 ft	Black	7⅞ in Dia	7 13⁄16"	Signode	**3XG65**	1
	0.023 in	500 lb	7,500 ft	Clear	7⅞ in Dia	7 13⁄16"	Signode	**2MPW2**	1
	0.023 in	500 lb	9,000 ft	Black	16 in Dia	6"	—	**2CXJ8**	1
	0.025 in	500 lb	8,000 ft	Black	16 in Dia	6"	—	**2CXJ6**	1
½ in	0.022 in	500 lb	8,000 ft	Black	16 in Dia	6"	—	**33RZ21**	1
	0.024 in	325 lb	9,900 ft	White	8 in Dia	8"	—	**2CXJ1**	1
	0.024 in	325 lb	9,900 ft	White	8 in Dia	8"	Signode	**6BY59**	1
	0.024 in	325 lb	9,900 ft	White	9 in Dia	8"	—	**2CXJ2**	1
	0.026 in	600 lb	7,000 ft	Black	16 in Dia	6"	—	**33RZ03**	1
	0.028 in	500 lb	7,200 ft	White	8 in Dia	8"	—	**2CXJ3**	1
	0.03 in	600 lb	6,000 ft	Black	8 in Dia	8"	—	**6LGC9**	1
	0.033 in	650 lb	7,200 ft	Black	16 in Dia	6"	—	**6LGD0**	1

52YU54

2CXN2

Manual Tensioner Tools for Polypropylene Strapping

- Standard-duty seals
- Flat seal surface

Correct tensioning ensures bundles or packages are secure during shipping or storage, and help prevent over tensioning that can damage boxes and contents.

Tensioner Type	Fits Strap Width	Fits Strap Tensile	Tool Wt.	Item No.
—	½ in to ¾ in	300 to 1000 lb	2 lb	**52YU54**
Windlass Tensioner	½ in to ¾ in	300 to 1000 lb	3 lb	**2CXN2**

2CXN3

Sealer Tools for Polypropylene Strapping

Apply pressure to crimp and secure strapping seals to polypropylene strapping.

Standard-Duty—These tools have shorter handles than heavy-duty sealer tools and they apply less pressure.

Heavy-Duty—With longer handles than standard-duty, these tools can apply greater pressure required when working with heavy-duty strapping and seals. They are used to crimp standard and heavy-duty polyester strapping and seals.

Fits Strap Width	Fits Strap Tensile	Overall Length	Handle Length	Tool Joint Type	Item No.
Standard-Duty					
½ in	300 to 750 lb	17 in	14 in	Crimp	**2CXN3**
⅝ in	800 to 1000 lb	17 in	14 in	Crimp	**2CXN4**
Heavy-Duty					
½ in	300 to 750 lb	19 ½ in	17 in	Crimp	**52YU55**
⅝ in	800 to 1000 lb	19 ½ in	17 in	Crimp	**52YU56**

Seals and Buckles for Polypropylene Strapping

2CXP3

- Regular-duty seals
- Flat seal surface

Apply to overlapping strap ends to maintain tension and keep the strapping from slipping.

Open Seals—Secure poly strapping on flat surfaces using a manually-operated sealing tool. Seals are placed over the strapping during or after tensioning and can be used where high-tensile strength is needed.

Buckles—Strapping is threaded around the buckle and pulled tight. Buckles are held in place with the tension on the strap and do not require special tools to ensure a secure fit.

16P027

Fits Strap Width	Seal Thickness	Material	Seal Length	Item No.	Pkg. Qty.
Open Seals					
½ in	¼ in	Steel	1 ¼ in	**2CXP3**	1000
⅝ in	¼ in	Steel	1 ¼ in	**2CXP4**	1000
¾ in	5⁄16 in	Steel	1 ¼ in	**16P030**	250
Buckles					
⅜ in	59⁄64 in	Steel	—	**2JFF2**	1000
½ in to ⅝ in	—	Plastic	—	**16P029**	250
½ in	⅛ in	Steel	—	**2CXP2**	1000
½ in	7⁄64 in	Steel	—	**2CXP1**	1000
⅝ in	⅛ in	Steel	—	**16P027**	250
¾ in	⅛ in	Steel	—	**16P028**	250

2CXL3

16P044

16P046

3A082

SIGNODE

Polypropylene Strapping Kits

These kits include a selection of items that work together to hold, store, transport, tension, and seal polypropylene strapping. Polypropylene strapping, sometimes called poly strapping, is a lightweight strap used to bundle newspapers, seal and bundle cartons, and secure light loads. The embossed surface makes the strapping flexible to make it easier to bend the strapping around edges and irregular shapes.

Strapping, Tensioner, and Buckles—Strapping is wrapped around a bundle and tightened with a tensioner tool. The ends of the strapping are wrapped around the buckle and tightened manually.

Strapping, Tensioner, Sealer, and Seals—These items work together to perform all the tasks required to strap and secure strapping. Pull the strapping tight using a tensioner, then use a sealing tool to secure a seal that ensures strapping does not come loose.

Strapping and Seals—Lightweight strap is used to bundle newspapers, seal and bundle cartons, and secure light loads. Seals secure strapping to maintain correct tension.

Strapping and Buckles—These kits can be used to replenish supplies at workstations and on strapping carts, or can be used independently of carts and workstations. The buckles are secured manually, without the need of a sealing tool.

Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Seal Type	Brand	Item No.
Strapping, Tensioner, and Buckles						
½ in	0.018 in	300 lb	3,000 ft	300 Buckles	—	**2CXL3**
½ in	0.022 in	400 lb	9,000 ft	1,000 Buckles	—	**16P045**
Strapping, Tensioner, Sealer, and Seals						
½ in	0.022 in	300 lb	9,000 ft	1,000 Open Seals	—	**16P044**
½ in	0.022 in	500 lb	7,200 ft	1,000 Open Seals	—	**2CXL4**
Strapping and Seals						
½ in	0.022 in	300 lb	9,000 ft	500 Open Seals	—	**16P046**
½ in	0.026 in	500 lb	7,200 ft	1,000 Open Seals	—	**16P047**
Strapping and Buckles						
½ in	0.018 in	300 lb	250 ft	40 Wire Buckles	Signode	**5A430**
½ in	0.022 in	400 lb	2,500 ft	425 Wire Buckles	Signode	**3A082**

2CXL6

Strapping Kits

Set up a new workstation for polyester strapping complete with a wheeled cart, strapping, tensioner, and compatible seals and sealer. These items work together to perform all the tasks required to strap and secure polyester strapping. It is noncorrosive so it will not damage surfaces, and can be used to secure lumber, heavy pallets, and other medium-to-heavy loads.

Kit Applications	Fits Strap Width	Thickness	Break Strength	Strapping Length	Strapping Seal Type	Item No.
Polypropylene Strapping Kit						
Standard	½ in	0.026 in	500 lb	3,600 ft	500 Open Seals	**2CXL5**
Polyester Strapping Kit						
High Tensile	½ in	0.025 in	775 lb	5,800 ft	500 Gripper Seals	**2CXL6**
High Tensile	⅝ in	0.035 in	1,400 lb	4,000 ft	500 Gripper Seals	**2CXL7**

Corrugated

HDPE

No Stack Cones

Corrugated cone attaches to the top of a shipment with packing straps as a notification that the pallet will not tolerate the weight of stacking.

HDPE pallet cones resist bending compared to corrugate pallet cones.

L	W	H	Item No.	Pkg. Qty.
Corrugated				
8 in	8 in	10 in	**3EXF8**	100

Base Length	Base Width	H	Color	Item No.	Pkg. Qty.
HDPE					
8 ⅞ in	8 ⅞ in	4 3/16 in	Blue	**61HH96**	1
8 ⅞ in	8 ⅞ in	4 3/16 in	Green	**61HH95**	1
8 ⅞ in	8 ⅞ in	4 3/16 in	Orange	**61HH97**	1
8 ⅞ in	8 ⅞ in	4 3/16 in	Red	**61HH93**	1
8 ⅞ in	8 ⅞ in	4 3/16 in	Yellow	**61HH94**	1

Arch
6LGD1

Arch
2CXN1

Tabletop
1ATA5

Tabletop
2CXL8

PAC Strapping Products Inc. SIGNODE

Semi-Automatic Strapping Machines

These machines tension and heat-seal plastic strapping in medium- to high-volume shipping applications, such as loading docks and fulfillment centers. These machines require the operator to feed the strapping around the package. They speed processing and reduce operator fatigue by eliminating the need for workers to manually tension and seal strapping.

Overall Length	Overall Width	Overall Height	Max. Package Size	Fits Strap Width	Brand	Item No.
Arch						
48 in	25 ½ in	59 ¼ in	25 in W x 19 in H	5 mm, 6 mm	Pac Strapping	**6LGD1**
48 in	25 ½ in	59 ¼ in	25 in W x 19 in H	9 mm	Pac Strapping	**5JPP9**
56 in	25 ½ in	63 ¼ in	25 in W x 23 in H	5 mm, 6 mm, 9 mm, 12 mm	Pac Strapping	**6LGD2**
56 in	25 ½ in	63 ¼ in	25 in W x 23 in H	5 mm, 6 mm, 9 mm, 12 mm	Pac Strapping	**6LGD3**
56 ¼ in	27 ⅔ in	60 ⅔ in	33½ in W x 23½ in H	⅜ in	Pac Strapping	**2CXN1**
57 ½ in	24 ½ in	61 in	32 in L x 30 in W	12 mm	Pac Strapping	**40TP46**
57 ½ in	24 ½ in	61 in	32 in L x 30 in W	9 mm	Pac Strapping	**40TP48**
57 ½ in	24 ½ in	61 in	32 in L x 30 in W	12 mm	Pac Strapping	**40TP51**
Tabletop						
33 ½ in	22 in	37 ½ in	Unlimited	¼ in to ½ in	Signode	**5Z093**
33 ½ in	22 in	37 ½ in	Unlimited	¼ in to ½ in	Pac Strapping	**2CXL9**
34 in	22 in	30 ¼ in	Unlimited	¼ in to ½ in	Signode	**1ATA5**
35 in	23 in	30 in	Unlimited	¼ in to ½ in	Pac Strapping	**2CXL8**

Light-Duty
Edge Protector
56JM12

Medium-Duty
Edge Protector
56JM20

Heavy-Duty
Edge Protector
4TZX6

Extra Heavy-Duty
Edge Protector
2CXP7

Foam Corner
Protector
12F325

Plastic
Strapping
Guard
5A431

Paperboard
Strapping Guard
56JK88

PolarTech Industries

Edge and Corner Protectors

Edge and corner packaging protection helps safeguard large packaging from dents and damage during shipment or storage. They are placed on and around boxes and containers to help stabilize and protect items.

W	L	D	Thickness	Color	Material	Brand	Item No.	Pkg. Qty.
Light-Duty Edge Protectors								
2"	48"	2"	0.12"	White	Paperboard	—	**56JM12**	100
	60"	2"	0.12"	White	Paperboard	—	**56JM13**	50
3"	24"	3"	0.75"	White	EPS Foam	Polar Tech	**12F327**	40
	48"	3"	0.12"	White	Paperboard	—	**56JM16**	60
Medium-Duty Edge Protectors								
2"	24"	2"	0.16"	White	Paperboard	—	**56JM17**	160
	36"	2"	0.16"	White	Paperboard	—	**56JM19**	100
	48"	2"	0.16"	White	Paperboard	—	**4TZX7**	10
	60"	2"	0.16"	White	Paperboard	—	**56JM20**	60
	72"	2"	0.16"	White	Paperboard	—	**56JM21**	50
3"	24"	3"	0.16"	White	Paperboard	—	**4TZX9**	10
	36"	3"	0.16"	White	Paperboard	—	**4TZY2**	10
	48"	3"	0.16"	White	Paperboard	—	**4TZY4**	10
Heavy-Duty Edge Protectors								
2"	48"	2"	0.23"	White	Paperboard	—	**56JM25**	55
2½"	24"	2½"	0.23"	White	Paperboard	—	**4TZX6**	10
	36"	2½"	0.23"	White	Paperboard	—	**4TZX8**	10
3"	24"	3"	0.23"	White	Paperboard	—	**4TZY1**	10
	36"	3"	0.23"	White	Paperboard	—	**4TZY3**	10
	48"	3"	0.23"	White	Paperboard	—	**4TZY5**	10
Extra Heavy-Duty Edge Protectors								
1⅜"	1"	1⅜"	0.17"	White	Plastic	—	**2CXP7**	2000
2½"	6"	2½"	0.17"	White	Plastic	—	**4FEU2**	500
Foam Corner Protectors								
3"	3¾"	3¾"	¾"	White	EPS Foam	Polar Tech	**12F325**	80
3¾"	3"	3"	¾"	White	EPS Foam	Polar Tech	**12F324**	180
5¼"	5¼"	3½"	1½"	White	EPS Foam	Polar Tech	**12F326**	128
Paperboard Corner Protectors								
2"	3"	2"	⅛"	White	Paperboard	—	**4TZY7**	200
	3"	2"	⅛"	White	Paperboard	—	**4TZY6**	1080
3"	3"	3"	⅛"	White	Paperboard	—	**4TZY9**	100
	3"	3"	⅛"	White	Paperboard	—	**4TZY8**	200
Paperboard Strapping Guards								
2"	2½"	2"	0.13"	White	Paperboard	—	**56JK88**	1200
	2½"	2"	0.16"	White	Paperboard	—	**56JK89**	1000
Plastic Strapping Guards								
2"	1¼"	⅒"	0.1"	White	Plastic	—	**5A431**	2000
2½"	1¾"	13/100"	0.17"	Black	Plastic	—	**4FET8**	1000
	2"	2½"	0.17"	White	Plastic	—	**4FET7**	1000
5¼"	2"	5¼"	0.17"	Black	Plastic	—	**4FET9**	200
	2"	5¼"	0.17"	Black	Plastic	—	**4FEU1**	250

General Purpose, Analog Dial 3NZG5

General Purpose LCD 12R981

General Purpose LCD 1UXK4

Postal LCD 12R969

Compact Counting LED 12R985

Platform Counting LCD 12R963

TAYLOR MEASURETEK OHAUS ADAM

Shipping & Receiving Bench Scales

These scales weigh or count the number of packages to be shipped and determine accurate shipping cost estimates.

GENERAL PURPOSE UTILITY BENCH SCALES

They have a analog or LCD readout capability. The display is on the front of the scale rather than on the extended neck included with platform scales.

POSTAL BENCH SCALES

These scales, also known as parcel scales, weigh packages using software that is compatible with UPS, FedEx, USPS, and other postal carrier shipping systems. These scales display weight information only on an LCD readout.

COMPACT COUNTING BENCH SCALES

Scales can measure both the weight of items to be shipped and the total number of parts to be shipped. A sample of one item is used to calculate the entire quantity of items. The LCD or LED display is located on the front of the scale, rather than on the extended neck included with platform scales.

PLATFORM COUNTING BENCH SCALES

These bench scales have a large platform for weighing more items and larger packages than compact counting scales. These scales can also be used to count the number of items being weighed by sampling an individual item and calculating the total quantity. The LCD display is located above the scale on an extended removable neck pole.

Weight Cap.	Weighing Surface D	W	Overall Height	Weighing Units	Scale Graduations	Body Material	Washdown	Brand	Mfr. Model	Item No.
General Purpose Utility Bench Scales										
Scale Display: Analog Dial										
250 lb	14½"	15⅛"	4⅜"	lb	1 lb	Steel	No	Taylor	TR250	**3NZG5**
Scale Display: LCD										
11 lb	5⅜"	5⅜"	2¾"	kg, g, lb	1 g/0.1 oz	Stainless Steel	No	Taylor	TE10FT	**3NZH1**
11 lb	5⅞"	5⅞"	1½"	g, oz	1 g/0.1 oz	ABS	No	MeasureTek	12R973	**12R973**
13 lb	5⅞"	6¼"	3"	kg, g, lb, oz, lb/oz, fl oz	1 g	Stainless Steel	No	Ohaus	V31X6	**1NZB1**
13 lb	5⅞"	6¼"	3"	kg, g, lb, oz, lb/oz, fl oz	1 g	Stainless Steel	Yes	Ohaus	V31XW6	**1NZB7**
20 lb	11"	12⅜"	2⅜"	kg, lb	0.01 lb	ABS	No	Ohaus	83998137	**2XKC7**
33 lb	11¾"	11¾"	2"	kg, lb, oz, lb/oz	0.005 kg/0.01 lb	Mild Steel	No	Adam Equip.	CPWPLUS15	**9RCP4**
44 lb	11"	12⅜"	2⅜"	kg, lb	0.01 kg	ABS, Stainless Steel	No	Ohaus	C11P20	**2XKC8**
75 lb	11¾"	11¾"	2"	kg, lb, oz, lb/oz	0.01 kg/0.02 lb	Mild Steel	No	Adam Equip.	CPWPLUS35	**9TAJ8**
75 lb	19¾"	19¾"	3⅛"	kg, lb, oz, lb/oz	0.01 kg/0.02 lb	Mild Steel	No	Adam Equip.	CPWPLUS 35M	**9LNT1**
77 lb	12⅜"	11"	1¾"	kg, lb	20 g	Painted Steel	No	Ohaus	SD35	**1UXJ9**
150 lb	12¼"	12"	5¾"	kg, lb	0.1 kg/0.2 lb	Stainless Steel	No	Taylor	TE150	**3NZG3**
165 lb	11"	12⅜"	2⅜"	kg, lb	0.05 kg	ABS, Stainless Steel	No	Ohaus	C11P75	**2XKC9**
165 lb	12⅜"	11"	1¾"	kg, lb	50 g	Painted Steel	No	Ohaus	SD75	**1UXK1**
165 lb	19¾"	15¾"	2⅝"	kg, lb	0.05 kg/0.1 lb	Stainless Steel	No	MeasureTek	12R980	**12R980**
165 lb	20½"	15¾"	3"	kg, lb	50 g	Painted Steel	No	Ohaus	SD75L	**1UXK2**
330 lb	11¾"	11¾"	2"	kg, lb, oz, lb/oz	0.05 kg/0.1 lb	Mild Steel	No	Adam Equip.	CPWPLUS150	**8DG41**
330 lb	19¾"	19¾"	3⅛"	kg, lb, oz, lb/oz	0.05 kg/0.1 lb	Mild Steel	No	Adam Equip.	CPWPLUS 150M	**9MRP5**
400 lb	12¼"	12"	5¾"	kg, lb	0.2 kg/0.5 lb	Steel	No	Taylor	TE400	**3NZG4**
440 lb	12⅜"	11"	1¾"	kg, lb	100 g	Painted Steel	No	Ohaus	SD200	**1UXK3**
440 lb	19¾"	15¾"	2⅝"	kg, lb	0.1 kg/0.2 lb	Stainless Steel	No	MeasureTek	12R981	**12R981**
440 lb	19¾"	19¾"	3⅛"	kg, lb, oz, lb/oz	0.05 kg/0.1 lb	Mild Steel	No	Adam Equip.	CPWPLUS 200M	**8XF58**
440 lb	20½"	15¾"	3"	kg, lb	100 g	Painted Steel	No	Ohaus	SD200L	**1UXK4**
Postal Bench Scales										
Scale Display: LCD										
25 lb	5¼"	8⅛"	1¾"	g, oz	2 g/0.1 oz	ABS	No	MeasureTek	12R969	**12R969**
150 lb	12"	14"	3½"	kg, lb	0.02 kg/0.05 lb	Stainless Steel	No	MeasureTek	12R970	**12R970**
Compact Counting Bench Scales										
Scale Display: LCD										
6 lb	8¾"	11½"	4⅜"	g, lb	0.1 g/0.0002 lb	—	No	MeasureTek	GGS_42961	**52WX78**
12 lb	8¾"	11½"	4⅜"	g, lb	0.2 g/0.0005 lb	—	No	MeasureTek	GGS_42962	**52WX79**
15 lb	8⅜"	8⅜"	4½"	kg, g, lb, oz	0.02 g	Stainless Steel	No	Ohaus	R71MHD6	**38TH30**
30 lb	8¾"	11½"	4⅜"	g, lb	0.5 g/0.001 lb	—	No	MeasureTek	GGS_42963	**52WX80**
30 lb	12¼"	14⅞"	5"	kg, g, lb, oz	0.2 g	Stainless Steel	No	Ohaus	R71MD15	**38TH27**
70 lb	12¼"	14⅞"	5"	kg, g, lb, oz	0.5 g	Stainless Steel	No	Ohaus	R71MD35	**38TH28**
Scale Display: LED										
12 lb	8⅝"	11½"	4⅝"	kg, lb	0.2 g/0.0005 lb	ABS, Stainless Steel	No	MeasureTek	12R983	**12R983**
30 lb	8⅝"	11½"	4⅝"	g, lb	0.5 g/0.001 lb	ABS, Stainless Steel	No	MeasureTek	12R984	**12R984**
60 lb	8⅝"	11½"	4⅝"	g, lb	3 g/0.006 lb	ABS, Stainless Steel	No	MeasureTek	12R985	**12R985**
Platform Counting Bench Scales										
Scale Display: LCD										
13 lb	12¼"	10¾"	4"	kg, lb, oz, lb/oz	2 g	ABS, Stainless Steel, Steel	No	Ohaus	ES6R	**6YG89**
60 lb	14⅝"	12"	21½"	g, lb	5 g/0.01 lb	Stainless Steel	No	MeasureTek	12R963	**12R963**
66 lb	14"	12"	22½"	kg, g, lb, oz, lb/oz	0.01 lb	Steel	No	Ohaus	83998111	**1UXK5**
132 lb	14"	12"	22½"	kg, g, lb, oz	0.01 kg/1 g/0.02 lb	Stainless Steel	No	Ohaus	D31P60BR	**1UXK6**
132 lb	21¾"	16½"	36¼"	kg, g, lb, oz	0.01 kg/1 g/0.02 lb	Stainless Steel	No	Ohaus	D31P60BL	**1UXK7**
150 lb	14⅝"	12"	21½"	kg, lb	0.01 kg/0.02 lb	Stainless Steel	No	MeasureTek	12R964	**12R964**
150 lb	21⅝"	16½"	29½"	kg, lb	0.01 kg/0.02 lb	Stainless Steel	No	MeasureTek	12R965	**12R965**
300 lb	21⅝"	16½"	29½"	kg, lb	0.02 kg/0.05 lb	Stainless Steel	No	MeasureTek	12R966	**12R966**
300 lb	25⅝"	19¾"	35½"	kg, lb	0.02 kg/0.05 lb	Stainless Steel	No	MeasureTek	12R967	**12R967**
330 lb	21¾"	16½"	36½"	kg, g, lb, oz	0.02 kg/20 g/0.05 lb	Stainless Steel	No	Ohaus	D31P150BL	**1UXK8**
330 lb	25⅝"	19¾"	36¼"	kg, g, lb, oz	0.02 kg/20 g/0.05 lb	Stainless Steel	No	Ohaus	D31P150BX	**1UXK9**
600 lb	25⅝"	19¾"	35½"	kg, lb	0.05 kg/0.1 lb	Stainless Steel	No	MeasureTek	12R968	**12R968**
660 lb	25⅝"	19¾"	36¼"	kg, g, lb, oz, lb/oz	0.1 lb	Steel	No	Ohaus	83998116	**1UXL1**

MEASURETEK OHAUS B-TEK ADAM PINNACLE SCALE FAIRBANKS®

Shipping & Receiving Floor Scales

Shipping and receiving floor scales measure the weight of heavier items than bench scales. Floor scales are commonly used to weigh drums, pallets, and bulk cargo in shipping and receiving docks.

COUNTING FLOOR SCALES

These scales are large, flat scales with a remote display that can be viewed when the scale is covered by large objects such as a group of boxes or paint cans.

PALLET FLOOR SCALES

Pallet scales are large floor scales used to weigh items loaded on standard pallets. These scales indicate the weight of the entire object being weighed, including parts of the item that hang over the edge of the scale. Ramps for use with a forklift can be added to pallet scales.

BEAM BALANCE FLOOR SCALES

Beam balance floor scales have a graduated scale display similar to scales in medical exam rooms. These scales can be used in areas where electricity is not accessible.

DRUM FLOOR SCALES

Scales have a digital display and are for weighing plastic and steel drums up to 2500 lb.

PLATFORM FLOOR SCALES

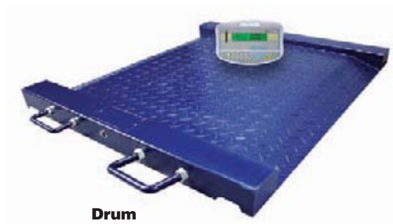
These scales are larger than bench platform counting scales and can fit larger items. They are placed on a packaging station floor, rather than on a countertop or bench, and are used to measure heavy items. Weight information is displayed on a removable neck.

Counting
Digital
12R960

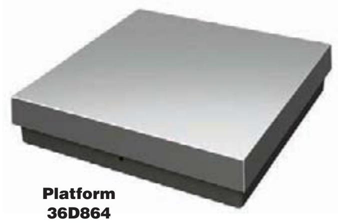
Pallet
Digital
5PVN6

Pallet
Digital
19ND56

Beam Balance
Mechanical
4HRH4



Drum
Digital
15Y007



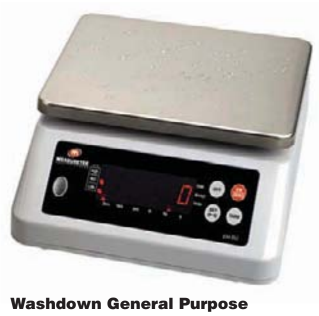
Platform
36D864

Weight Cap.	Weighing Surface D	W	Overall Height	Weighing Units	Scale Graduations	Body Material	Brand	Mfr. Model	Item No.
Counting Floor Scales									
Scale Display Digital									
2,500 lb	48"	48"	4"	kg, lb	0.2 kg/0.5 lb	Diamond Plated Steel	MeasureTek	12R959	**12R959**
2,500 lb	48"	48"	4½"	kg, g, lb, oz, lb/oz	0.2 kg	Stainless Steel, Steel	Ohaus	VX32XW2500L-US	**20FZ15**
2,500 lb	48"	48"	4½"	kg, lb	0.2 kg	Carbon Steel	Ohaus	VX31P2500L	**3CWN2**
5,000 lb	48"	48"	3½"	g, kg, lb, lb/oz, oz	0.5 kg	ABS, Steel	Ohaus	VN31P5000L-US	**20FZ13**
5,000 lb	48"	48"	4"	kg, lb	0.5 kg/1 lb	Diamond Plated Steel	MeasureTek	12R960	**12R960**
5,000 lb	48"	48"	4½"	g, kg, lb, lb/oz, oz	0.5 kg	Stainless Steel, Steel	Ohaus	VX32XW5000L-US	**20FZ16**
5,000 lb	48"	48"	4½"	kg, lb	0.2 kg	Carbon Steel	Ohaus	VX31P5000L	**3CWN3**
10,000 lb	48"	48"	4½"	g, kg, lb, lb/oz, oz	1 kg	Stainless Steel, Steel	Ohaus	VX32XW10000L-US	**20FZ19**
10,000 lb	60"	60"	4½"	g, kg, lb, lb/oz, oz	1 kg	Stainless Steel, Steel	Ohaus	VX32XW10000X-US	**20FZ20**
Pallet Floor Scales									
10,000 lb	60"	60"	4¼"	kg, lb	2 lb	Carbon Steel	B-Tek	BT-F-6060C	**36D841**
10,000 lb	72"	72"	4¼"	kg, lb	2 lb	Carbon Steel	B-Tek	BT-F-7272C	**36D842**
Scale Display Digital									
165 lb	23⅝"	31½"	37"	kg, g, lb, oz, lb/oz	1 g/0.02 lb	Aluminium	Adam Equip.	GFK165AH	**5PVN5**
330 lb	15¾"	19¾"	37"	kg, lb, lb/oz, N, oz	0.01 kg/0.02 lb	Aluminium	Adam Equip.	GFK330A	**5PVN6**
5,000 lb	48"	48"	3¾"	kg, lb	0.5 kg/1 lb	—	Pinnacle	PS3000-44-5	**19ND56**
5,000 lb	60"	60"	3¾"	kg, lb	1 kg/2 lb	—	Pinnacle	PS3000-55-5	**19ND58**
10,000 lb	48"	48"	3¾"	kg, lb	0.5 kg/1 lb	—	Pinnacle	PS3000-44-10	**19ND57**
10,000 lb	60"	60"	3¾"	kg, lb	1 kg/2 lb	—	Pinnacle	PS3000-55-10	**19ND59**
Beam Balance Floor Scale									
Scale Display Mechanical									
1,000 lb	23½"	17¾"	42¾"	lb	0.5 lb	Cast Iron	Fairbanks	55652	**4HRH4**
Drum Floor Scales									
Scale Display Digital									
500 lb	22⅞"	29⅞"	3"	kg, lb, lb/oz, N, oz	0.1 kg/0.2 lb	Mild Steel	Adam Equip.	PTM 500 & GK	**15Y007**
1,100 lb	29⅞"	22¾"	3"	Custom unit, g, kg, lb, lb/oz, N, oz	0.1 kg/0.2 lb	Mild Steel	Adam Equip.	PTM 500 {AE403}	**54YN42**
2,500 lb	24"	24"	4½"	g, kg, lb, lb/oz, oz	0.5 lb	Carbon Steel	B-Tek	BT-2424-2.5K-DC-I	**49AX41**
2,500 lb	24"	24"	4½"	kg, g, lb, oz, lb/oz	0.5 lb	Stainless Steel	B-Tek	BT-2424-2.5K-DS-I	**49AX42**
2,500 lb	30"	30"	2"	kg, lb	0.5 lb	Carbon Steel	B-Tek	BS-3030	**38UZ76**
Platform Floor Scales									
50 lb	12"	12"	4"	kg, lb	0.01 lb	Carbon Steel	B-Tek	BT-B-1212C-50	**36D855**
50 lb	12"	12"	4"	kg, lb	0.01 lb	Stainless Steel	B-Tek	BT-B-1212S-50	**36D864**
50 lb	18"	18"	4"	kg, lb	0.01 lb	Carbon Steel	B-Tek	BT-B-1818C-50	**36D858**
100 lb	12"	12"	4"	kg, lb	0.02 lb	Carbon Steel	B-Tek	BT-B-1212C-100	**36D856**
100 lb	12"	12"	4"	kg, lb	0.02 lb	Stainless Steel	B-Tek	BT-B-1212S-100	**36D865**
250 lb	18"	18"	5¼"	kg, lb	0.05 lb	Carbon Steel	B-Tek	BT-B-1818C-250	**36D860**
2,500 lb	24"	24"	5½"	kg, lb	0.5 lb	Stainless Steel	B-Tek	BT-2424-2.5K-DS	**36D846**

For standards, go to Grainger.com and search for the item number.

General Purpose
19YN23

Compact Counting
20FY95



Washdown General Purpose
12R991

Bench Scales

- LCD display, except 12R992 is LED

GENERAL PURPOSE COMPACT BENCH SCALES

These bench scales are designed for use in general purpose applications.

COMPACT COUNTING BENCH SCALES

These scales offer digital operation. Counting scales can be powerful asset for parts counting in applications such as inventory and quality inspections in warehouse or production environments.

WASHDOWN GENERAL PURPOSE COMPACT BENCH SCALE

This washdown scale is suitable for use in washdown environments. Features digital operation and offer quick entry of SKU package, item, and tare weights using alphanumeric keypads and dual-line alphanumeric display.

WASHDOWN COMPACT COUNTING BENCH SCALE

Scale is suitable for use in washdown environments, such as industrial and food processing applications. Functions include weighing, checkweighing, and parts counting. IP68 waterproof scale has ABS housing with removable stainless steel platter. Powered by AC adapter and NiMH rechargeable battery.

Cap.	Scale Graduations	Weighing Units	Weighing Surface D	Weighing Surface W	Overall W	Overall H	Overall L	Brand	Mfr. Model	Item No.
General Purpose Compact Bench Scales										
60 lb	0.05 lb	lb	11½"	11"	11⅜"	4"	14⅜"	Ishida	IPC	**46K649**
82 g	0.0001 g	g, kg, lb, lb/oz, N, oz	3½"	3½"	8 13/64"	13 19/64"	12 39/64"	Ohaus	30429845	**54YT20**
3,000 g	1 g	g	5 7/64"	5 7/64"				Adam Equip.	CB 3000	**19YN23**
3,200 g	0.01 g	g, kg, lb, lb/oz, N, oz	7"	7"	8 13/64"	3 29/32"	12 39/64"	Ohaus	30429851	**54YT28**
5,000 g	2 g, 0.002 kg, 0.005 lb	g, kg, lb	5¾"	5¾"	8¼"	1⅝"	8¼"	Adam Equip.	DCT 5000	**3JKH1**
Compact Counting Bench Scales										
6 kg, 15 lb	0.0002 kg, 0.0005 lb	kg, lb	11⅞"	9"	12 1/64"	4⅝"	12 29/32"	Ohaus	RC31P6	**20FY95**
6 lb, 3 kg	0.0001 lb, 0.00005 kg	kg, lb	11"	11"	11"	4½"	15 5/16"	Ohaus	R71MD3	**38TH25**
30 lb, 15 kg	0.001 lb, 0.0005 kg	kg, lb	11⅞"	9"	12 1/64"	4⅝"	12 29/32"	Ohaus	RC31P15	**20FY96**
60 lb, 30 kg	0.002 lb, 0.001 kg	kg, lb	11⅞"	9"	12 1/64"	4⅝"	12 29/32"	Ohaus	RC31P30	**20FY97**
165 lb, 75 kg	0.01 lb	lb	19⅝"	15⅝"	33⅞"	33⅞"	10 13/64"	Adam Equip.	GFC 165a	**15Y028**
330 lb, 150 kg	0.02 lb	lb	19⅝"	15⅝"	33⅞"	33⅞"	10 13/64"	Adam Equip.	GFC 330a	**15Y029**
660 lb, 300 kg	0.05 lb	lb	19⅝"	15⅝"	33⅞"	33⅞"	10 13/64"	Adam Equip.	GFC 660a	**15Y030**
Washdown General Purpose Compact Bench Scale										
13.2 lb, 6 kg	0.002 lb, 1 g	g, lb	7½"	9⅛"	9½"	4⅜"	11⅜"	MeasureTek	12R991	**12R991**
Washdown Compact Counting Bench Scale										
33 lb, 15 kg	2 g, 0.005 lb	g, lb	7½"	9⅛"	9½"	4⅜"	11⅜"	MeasureTek	12R992	**12R992**

5RCZ4

5AE95

3WRE8

Lab Scales

- LCD

Precision balance scales provide outstanding weighing performance and can be used for many different things for example, pharmaceuticals, chemical companies, and more.

5RCZ4, 5RCZ5, and 5RCZ6—Functional, portable design include high-contrast backlit LCD, hinged pan cover, low-battery indicator, and auto shutoff. Operate on 2 AAA batteries (included).

5AE95 and 5AE96—Compact and portable units have a low battery indicator and overload and underload indicators. Constructed with a protective snap-on cover and button activated luminescent display. Easy to calibrate. Operate on 2 AAA batteries (included).

3WRE8—Compact and portable IP67 washdown scale is great for harsh industrial environments, wet areas, and kitchens. Removable pan can be fully submersed in water for cleaning. Uses 6 AA batteries or AC adapter (optional). Battery level indicator with auto shutoff.

Cap.	Scale Graduations	Weighing Units	Weighing Surface D	Weighing Surface W	Overall W	Overall L	Overall H	Platform Material	Brand	Mfr. Model	Item No.
100 g	0.01 g	g	2"	3"	3"	4½"	¾"	Stainless Steel	Ohaus	YA102	**5RCZ4**
120 g	0.1 g	g	3"	3¼"	3¼"	5⅓"	¾"	ABS Plastic	Ohaus	HH120	**5AE95**
300 g	0.05 g	g	2"	3"	3"	4½"	¾"	Stainless Steel	Ohaus	YA302	**5RCZ5**
300 g	0.1 g	g	5"	5"	7½"	5 1/16"	2"	Stainless Steel	A&D Weighing	HL-300WP	**3WRE8**
320 g	0.1 g	g	3"	3¼"	3¼"	5⅓"	¾"	ABS Plastic	Ohaus	HH320	**5AE96**
500 g	0.1 g	g	2"	3"	3"	4½"	¾"	Stainless Steel	Ohaus	YA501	**5RCZ6**

1NZA5

3NZG9

1NZA6

OHAUS TAYLOR

Digital Food Scales

- LCD display

Scales are for use in industrial and food processing applications where consistent weight control is essential. Units are durable enough to meet the needs of the required application, while maintaining the importance of accuracy.

1NZA5, 1NZA6, and 1NZA8—Constructed with stainless steel housing and pan with added chemical resistance. Functions include weighing, percent weighing, combined zero/tare, and specific gravity (S). Operate on AC adapter or up to 100 hr. on 4 C batteries (not included).

3NZG9—Compact scale is ideal for commercial food service applications. Includes a tare function and auto-off feature. Runs on batteries (not included) or AC adapter.

Cap.	Scale Graduations	Weighing Units	Weighing Surface W	Weighing Surface D	Overall W	Overall L	Overall H	Brand	Mfr. Model	Item No.
0.44 lb, 200 g	0.00001 kg, 0.01 g, 0.00005 lb	g, kg, lb	4¾"	5¾"	7⁵⁄₁₆"	8½"	3"	Ohaus	83998130	**1NZA5**
2 lb	1 g, 0.1 oz	g, oz	5⅜"	5⅜"	6"	6¾"	1⅜"	Taylor	TE32FT	**3NZG9**
4.4 lb, 2 kg	0.00005 lb, 0.0001 kg, 0.1 g	g, kg, lb	6¼"	5¾"	7⁵⁄₁₆"	8½"	3"	Ohaus	V31XH2	**1NZA6**
6 lb, 3 kg	0.0005 kg, 0.5 g, 0.002 lb	g, kg, lb	6¼"	5¾"	7⁵⁄₁₆"	8½"	3"	Ohaus	V31X3	**1NZA8**

1NZB3

1NZB5

3JKD1

3JKD3

OHAUS A&D Weighing

Washdown Digital Food Scales

- LCD display

Compact portable washdown scales are great for harsh industrial environments, wet areas, and kitchens.

1NZB3 and 1NZB5—Constructed with stainless steel housing and pan with added chemical resistance. Operate on AC adapter or up to 100 hr. on 4 C batteries (not included). Functions include weighing, percent weighing, combined zero/tare, and specific gravity (S).

3JKD1 and 3JKD3—IP67 washdown scales are great for harsh industrial environments, wet areas, and kitchens. Constructed with a stainless steel body and removable pan that can be fully submersed in water for cleaning. Use 6 AA batteries or AC adapter (optional). Battery level indicator with auto shutoff.

Cap.	Scale Graduations	Weighing Units	Weighing Surface W	Weighing Surface D	Overall W	Overall L	Overall H	Brand	Mfr. Model	Item No.
0.6 lb, 300 g	0.00005 lb, 0.0001 kg, 0.1 g	g, kg, lb	6¼"	5¾"	7⁵⁄₁₆"	8½"	3"	Ohaus	V31XW301	**1NZB3**
6 lb, 3 kg	0.001 kg, 1 g, 0.005 lb	g, kg, lb	6¼"	5¾"	7⁵⁄₁₆"	8½"	3"	Ohaus	V31XW3	**1NZB5**
3,000 g	1 g	g	5"	5"	7½"	5¹⁄₁₆"	2"	A&D Weighing	HL-3000WP	**3JKD1** *
3,000 g	1 g	g	5"	5"	7½"	5¹⁄₁₆"	2"	A&D Weighing	HL-3000WPN	**3JKD3**

*** NTEP for legal trade.***

For standards, go to Grainger.com and search for the item number.

3JKN1

5A354

4VG68

3JKN5

3JKN7

Chatillon force measurement

Mechanical Hanging Scales

Designed to be suspended from an overhead anchor point, each features a hook to hang an object to determine its weight. Used in places where no flat, stable surface is available. Applications include agricultural feed portioning to weighing fish and game. Can also weigh shipping packages.

3JKN1—Constructed of heavy-gauge japanned steel with a large, easy-to-read dial. Includes convenient zero adjustment screw and plated top loop and bottom hook.

5A354 and 4VG68—Feature a heavy-gauge solid brass construction with precision steel springs. Can be used in salt water applications. Feature avoirdupois and metric graduations.

3JKN5 and 3JKN7—Extra heavy-duty steel and cast-iron construction and have a recessed pointer with deeply embossed numbers and graduations.

Scale Display	Cap.	Weighing Units	Scale Graduations	Scale Accuracy	Overall Height	Mfr. Model	Item No.
Analog Dial	100 lb	lb	0.5 lb	+/-1 Graduation	17⁷⁄₁₆"	WH-100	**3JKN1**
Analog Linear	25kg/50 lb	kg, lb	250g/8 oz	+/-1 Graduation	12½"	IN-050	**5A354**
	50kg/100 lb	kg, lb	50g/1 lb	+/-1 Graduation	15⅛"	IN-100	**4VG68**
	200 lb	lb	2 lb	+/-1 Graduation	19⅝"	IC-200	**3JKN5**
	500 lb	lb	5 lb	+/-1 Graduation	23½"	IC-500	**3JKN7**

Calibration Weights - Certifications and Classifications

DOCUMENTATION:

- **Traceable—**Certificate meets ISO and traceability requirements for Classes 4 to 7 and Class F weights

CLASSIFICATIONS:

- **Class 5 & 6—**Weights used for laboratories
- **Class 7—**For rough weighing operations in physical and chemical laboratories, such as force measuring apparatus

RICE LAKE WEIGHING SYSTEMS

Calibration Weights

- More sizes, documentations, and classifications are available online, see Grainger.com®

For routine calibration of scales or verification checks.

CAST IRON

Painted weights with an adjustable sealing cavity. Typical application is field standard for testing industrial weighing devices.

SLOTTED

Weights with a slot to stack on a hanger for checking or calibrating devices that do not have a surface to stack weights.

STAINLESS STEEL

Type 2 design weights feature a sealing cavity for adjusting material in 100g or larger weights. Applications include field standard for testing light industrial weighing devices.

Grip Handle

Slotted

Cylinder

Leaf

Hook

Nom. Mass	Calibration Weight Style	Calibration Certificate: No Certificate Item No.	Calibration Certificate: Traceable - Accredited Item No.
Cast Iron			
Calibration Weight Class: 6			
250 lb	Grip Handle	**15F116**	**15F115**
500 lb	Grip Handle	**15F114**	—
50 kg	Grip Handle	**15F065**	**15F064**
100 kg	Grip Handle	**15F120**	**15F119**
250 kg	Grip Handle	**15F118**	**15F117**
Calibration Weight Class: 7			
1 lb	Grip Handle	**15F059**	**15F058**
2 lb	Grip Handle	**15F057**	**15F056**
5 lb	Grip Handle	**15F053**	**15F052**
10 lb	Grip Handle	**15F061**	**15F060**
0.5 lb	Slotted	**15F049**	**15F048**
1 lb	Slotted	**15F045**	**15F044**
5 lb	Slotted	**15F051**	**15F050**
2 lb	Slotted	**15F047**	**15F046**
5 kg	Grip Handle	**15F055**	**15F054**
Stainless Steel			
Calibration Weight Class: 5			
1 g	Cylinder	**15F138**	—
2 g	Cylinder	**15F130**	**15F129**
5 g	Cylinder	**15F122**	—
50 g	Cylinder	**15F124**	—
20 mg	Leaf	**15F083**	**15F082**
100 mg	Leaf	**15F087**	**15F086**
200 mg	Leaf	**15F085**	**15F084**
500 mg	Leaf	**15F081**	**15F080**
Calibration Weight Class: 6			
1 lb	Hook	**15F108**	**15F107**
2 lb	Hook	**15F099**	**15F098**
5 lb	Hook	**15F091**	**15F090**
10 lb	Hook	**15F112**	**15F111**
20 lb	Hook	**15F104**	**15F103**
1 oz	Hook	**15F106**	**15F105**
2 oz	Hook	**15F097**	**15F096**
4 oz	Hook	**15F095**	**15F094**
8 oz	Hook	**15F089**	**15F088**
1 kg	Hook	**15F110**	**15F109**
2 kg	Hook	**15F102**	**15F101**
5 kg	Hook	**15F093**	**15F092**

Coordinating Lids

Grainger offers a full selection of coordinating disposable cup lids in a variety of styles. Visit Grainger.com and search for your disposable cup to find a corresponding lid.

Sip-Thru

Dome

Straw Slotted

Reclosable

Flat

Vented

Lock Back Tear Tab

Find more Cup and Lid sizes and styles at Grainger.com.

Types of Disposable Cups

Poly-Coated (PE) Paper

Polymer coating provides extra insulation and makes these cups ideal for hot or cold beverages. This material also helps protect the outside of the cup from weakening due to condensation or "sweating."

Foam

A great option for hot or cold beverages, foam cups hold their shape better than paper cups. 1-pc. molded construction provides effective insulation in a durable, low-cost vessel.

PET

Polyethylene terephthalate, or PET, is part of the polyester family and is lightweight and proficient at blocking moisture. PET cups are also strong and impact-resistant. Use only with cold beverages. Recyclable.

PLA

Polylactic acid fiber is a nontoxic, sustainable material made from plant-derived materials. Provides an eco-conscious alternative to petroleum-derived products.

Polystyrene

Heavy-duty, flexible cups have a medium wall construction that flexes but still remains crack-resistant, making them a perfect choice for parties and catered events.

DART®

White Cold/Hot Foam Cups & Lids

Standard white foam cups are an economical and efficient choice for insulating beverages. Not microwave safe.

Dart 4 oz. Cup
23UA55

Dart 4 oz. Lid
23UC02

Capacity	Pattern	Disposable Foodware Coating/Lining	Use Lid No.	Mfr. Model	Item No.	Pkg. Qty.
DART CUPS						
4 oz	Patternless	Uncoated/Unlined	Mfr. No. 4JL	4J4	**23UA55**	1000
6 oz	Patternless	Uncoated/Unlined	6CLR, 6JL, 6JLNV	6J6	**23UA56**	1000
8 oz	Patternless	Uncoated/Unlined	8EL, 8ELBLK, 8FTL, 8JL, 8SL, 8UL	8J8	**1PTP7**	1000
10 oz	Patternless	Uncoated/Unlined	10EL, 10FTL, 10JL, 10SL, 10UL	10J10	**23UA57**	1000
12 oz	Patternless	Uncoated/Unlined	12CLR, 12EL, 12FTL, 12FTLS, 12HDLC, 12JL, 12SL, 12UL	12J12	**1PTN5**	1000
12 oz	Patternless	Uncoated/Unlined	16EL, 16ELBLK, 16FTL, 16FTLS, 16JL, 16LCD, 16LCDH, 16LCDHX, 16RCL, 16RCLBLK, 16SL, 16UL	12J16	**41H585**	1000
16 oz	Patternless	Uncoated/Unlined	16EL, 16ELBLK, 16FTL, 16FTLS, 16JL, 16LCD, 16LCDH, 16LCDHX, 16RCL, 16RCLBLK, 16SL, 16UL	16J16	**1PTP1**	1000
20 oz	Patternless	Uncoated/Unlined	16EL, 16ELBLK, 16FTL, 16FTLS, 16JL, 16LCD, 16LCDH, 16LCDHX, 16RCL, 16RCLBLK, 16SL, 16UL	20J16	**23UA59**	500
24 oz	Patternless	Uncoated/Unlined	16EL, 16ELBLK, 16FTL, 16FTLS, 16JL, 16LCD, 16LCDH, 16LCDHX, 16RCL, 16RCLBLK, 16SL, 16UL	24J16	**23UA60**	500
32 oz	Patternless	Uncoated/Unlined	32CLR, 32HDLC, 32JL, 32PL, 32RL, 32SL	32TJ32	**23UA61**	500

Capacity	Disposable Lid Type	Fits Cup No.	Color	Mfr. Model	Item No.	Pkg. Qty.
DART LIDS						
2 oz, 6 oz	Flat, Vented	2J6, 3.5J6, 4J6, 6J6	White	6JL	**23UC03**	1000
4 oz	Flat, Vented	4J4, 4X4	Clear	4JL	**23UC02**	1000
8 oz	Dome, Sip Through	10FJ8, 89U8, 89U8ESC, 8J8, 8KY8, 8X8	White	8EL	**23UC07**	1000
10 oz	Dome, Sip Through	Mfr. No. 10J10, Mfr. No. 10KY10, Mfr. No. 10X10	White	10EL	**23UC12**	1000
10 oz, 14 oz	Dome, Sip Through	10J12, 12J12, 12X12, 14FJ12, 14J12	White	12EL	**23UC14**	1000
12 oz, 24 oz	Dome, Sip Through	12J16, 12U16, 12X16, 14J16, 16J16, 16U16, 16X16, 20J16, 20U16, 20X16, 24J16, 24U16, 24X16	White	16EL	**23UC16**	1000
32 oz, 60 oz	Flat, Identification Buttons, Straw Slot	32AJ32, 32TJ32, 44AJ32, 44TJ32, 60AJ32	Clear	32SL	**23UC20**	500
APPROVED VENDOR LIDS						
8 oz, 10 oz	Flat, Vented	—	White	L8V	**6GUK6**	1000
10 oz	Flat, Lock Back Tear Tab	Mfr. No. H10S	White	DT10	**6GUL1**	1000
10 oz	Flat, Straw Slot	Mfr. No. H10S	Translucent	L10S	**6GUL0**	1000
12 oz, 24 oz	Dome, Reclosable, Sip Through	Mfr. No. 12C18, Mfr. No. 12F18, Mfr. No. 14C18, Mfr. No. 16C18, Mfr. No. 20C18, Mfr. No. 20F18, Mfr. No. 24C18, Mfr. No. C12A, Mfr. No. C1618, Mfr. No. C2022	White	DLB18	**6GUL9**	1000

DIXIE

PE-Lined Paper Hot Cups

Polyethylene-lined cups help keep liquids from soaking through and provide an upscale image at an economical cost.

Pathways Design

Patternless

			PATHWAYS		PATTERNLESS		COFFEE HAZE	
Capacity	Microwave Safe	Pkg. Qty.	Brand	Item No.	Brand	Item No.	Brand	Item No.
8 oz	NO	500	Dixie	**15J139**	—	—	—	—
8 oz	YES	1000	Dixie	**38V882**	—	**15J240**	Dixie	**22YJ58**
10 oz	YES	1000	Dixie	**38V884**	—	**15J242**	—	—
12 oz	NO	500	Dixie	**15J140**	—	—	—	—
12 oz	YES	1000	Dixie	**38V883**	—	**15J244**	—	—
16 oz	YES	1000	Dixie	**38V885**	—	**22YJ64**	—	—

Find Cup Lids at Grainger.com; search for "Disposable Lids".

Patternless Cold/Hot Cups

Viridian Hot Cups

Cold/Hot Paper Cups

Save on dishwashing energy and breakage and efficiently handle hot and cold drinks. Keep coffee, tea and other hot drinks hot, and maintain the chill of cold drinks such as milk and soda. Microwave safe.

Capacity	Pattern	Color	Material	Brand	Item No.	Pkg. Qty.
Cold/Hot Cup						
8 oz	Patternless	White	Polyethylene	Boardwalk	**659U73**	1000
12 oz					**659U70**	
16 oz					**659U71**	
Hot Cup						
8 oz	Viridian	White/Green	PLA	Dixie	**659F31**	1000
12 oz					**659V29**	
16 oz					**659F32**	

Coffee Haze Design

White Design

PerfecTouch PE-Lined Paper Hot Cups

Protect hands comfortably with a sturdy, nonslip polyethylene outer lining that helps reduce the need for double-cupping or sleeves. Attractive graphics are appealing to customers and provide an upscale appearance. Microwave safe.

	COFFEE HAZE		WHITE	
Capacity	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
8 oz	**1PTR3**	500	**22YJ65**	1000
8 oz	**15J218**	1000	—	—
10 oz	**15J217**	1000	**22YJ66**	1000
12 oz	**1PTR8**	500	**22YJ67**	1000
12 oz	**15J219**	1000	—	—
16 oz	**1PTU6**	500	**22YJ68**	1000
16 oz	**15J220**	1000	—	—

Wrapped 23MJ45

Unwrapped 22YJ81

Unwrapped 22YJ80

Plastic Cold Cups

Clear patternless cups.

Capacity	Disposable Foodware Coating/Lining	Wrapped/Unwrapped	Item No.	Pkg. Qty.
Approved Vendor				
9 oz	Uncoated/Unlined	Wrapped	**23MJ45**	1000
Dixie				
10 oz	Polyethylene	Unwrapped	**22YJ81**	500
10 oz	Polyethylene	Unwrapped	**22YJ80**	1000

23UA89

481C36

PET Plastic Cold Cups

Plastic cups are crack resistant, sturdy, and yet flexible. Bare by Solo cups are made from 20% post-consumer recycled content and feature an eco-friendly leaf pattern.

Capacity	Disposable Foodware Coating/Lining	Pattern	Color	Wrapped/ Unwrapped	Item No.	Pkg. Qty.
DART						
16 oz	Uncoated/Unlined	Patternless	Clear	Unwrapped	**23UA89**	1000
DIXIE						
9 oz	Uncoated/Unlined	Patternless	Clear	Wrapped	**55GZ51**	1000
12 oz	Uncoated/Unlined	Patternless	Clear	Unwrapped	**55GZ48**	500
16 oz	Uncoated/Unlined	Patternless	Clear	Wrapped	**55GZ50**	500
16 oz	Uncoated/Unlined	Patternless	Clear	Wrapped	**55GZ49**	1000
SOLO CUP						
9 oz	Polyethylene	Bare®	White/Green	Unwrapped	**481C42**	1000
12 oz	Polyethylene	Bare®	White/Green	Unwrapped	**481C36**	1000
16 oz	Polyethylene	Bare®	White/Green	Unwrapped	**481C37**	1000
20 oz	Polyethylene	Bare®	White/Green	Unwrapped	**481C41**	600

4KMV6

12N440

12N441

Polystyrene Plastic Cold Cups

Patternless cups are lightweight and disposable for easy cleanup. 12N440 and 12N441 provide additional rigidity and stability.

Capacity	Color	Disposable Foodware Coating/Lining	Item No.	Pkg. Qty.
Approved Vendor				
9 oz	Translucent	Uncoated/Unlined	**4KMV6**	2500
12 oz	Translucent	Uncoated/Unlined	**2ERU9**	1000
16 oz	Translucent	Uncoated/Unlined	**2ERV1**	1000
Solo				
16 oz	Blue	Uncoated/Unlined	**12N440**	1000
16 oz	Red	Uncoated/Unlined	**12N441**	1000

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Cup and Condiment Dispensers

Cup dispensers feature an adjustable collar that easily conforms to each cup size.

Dispenser Holds	Foodservice Dispenser Mounting	Tube Length	Tube Dia.	H	W	D	Item No.
Cup Dispensers							
3 to 5 oz Cups	Wall	16 in	3 in	17 in	3 in	3 in	**6ADN9**
3 to 5 oz Cups	Wall	16 in	3 ½ in	16 ½ in	3 ½ in	4 in	**6ADP0**
4 to 10 oz Cups	Wall	16 in	4 ½ in	17 in	4 ½ in	4 in	**6ADL4**
4 to 10 oz Cups	Stand	23 ½ in	4 ¾ in	24 ¾ in	4 ¾ in	4 ¾ in	**6ADP1**
4½ to 12 oz Cups	Wall	16 in	4 ¾ in	16 ¾ in	4 ¾ in	4 ¾ in	**6ADL8**
6 to 10 oz Cups	Wall	23 ½ in	4 ⅛ in	24 ¾ in	4 ⅛ in	4 ¾ in	**6ADL7**
8 to 24 oz Cups	Wall	16 in	4 ¾ in	17 in	4 ¾ in	4 ¾ in	**6ADN3**
12 to 24 oz Cups	Wall	23 ½ in	4 ¾ in	24 ¾ in	4 ¾ in	4 ¾ in	**6ADP3**
12 to 24 oz Cups	Wall	23 ½ in	5 in	24 ¾ in	5 in	5 in	**6ADN2**

Description	Dispenser Material	H	W	D	Item No.
Cutlery, Lid & Straw Dispensers					
Bulk Cutlery Stand	Plastic/Steel	16 37⁄64"	8 59⁄64"	12 1⁄16"	**483K93**
Lid and Straw Shallow Tray Organizer	Plastic	2 ¾ in	5 53⁄64 in	17 in	**483K90**

6ADN9

483K93

Dixie basic.
Dixie

Napkins

4CJ87

52VG79

6WA87

Description	Napkin Color	Ply	Napkin Fold Type	Napkin Folded Dimensions	Napkin Sheet Size	Uses Dispenser	Brand	Mfr. Model	Item No.	Pkg. Qty.
Dispenser Napkin										
HyNap	White	1	Tall Fold	3½ in x 6½ in	7 in x 13½ in	Mfr. No. 50002	Dixie Basic	33201	**4CJ87**	10,000
Dixie Ultra	Brown	2	Interfold	5 in x 6½ in	6½ in x 9⅞ in	Mfr. No. 54223, 54510, 54510, 54550, 54551, 54552, 54512	Dixie	32019	**52VG79**	6,000
Dixie Ultra	White	2	Interfold	5 in x 6½ in	6½ in x 9⅞ in	Mfr. No. 54223, 54510, 54510, 54550, 54551, 54552, 54512	Dixie	32006	**52VG78**	6,000
Luncheon Napkin										
GPPro	White	1	¼ Fold	5¾ in x 6¼ in	11½ in x 12½ in	—	Dixie	37707	**6WA87**	6,000

Dixie
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Napkin Dispensers

Dixie dispensers feature quick and simple loading, visual appeal, and are simple to use. One at a time dispensing is hygienic and helps reduce costs.

29WJ76

12V372

6CAE0

Napkin Fold Type	Product Series	Napkin Dispenser Capacity	Dispenser Color	Dispenser Material	Use Napkin Number	D	H	W	Brand	Mfr. Model	Item No.
Countertop											
Interfold	Dixie Ultra(R)	300	Black	Plastic	32003, Mfr. No. 32002, Mfr. No. 32015	7 ½ in	6 ⅜ in	5 ⅞ in	Dixie	54527A	**29WJ76**
Interfold	Dixie Ultra(R)	500	Black	Plastic	Mfr. No. 32002, Mfr. No. 32015	13 ⅝ in	7 ¼ in	9 ¼ in	Dixie	54510A	**12V372**
Low Fold	—	150	Red	Steel		4 ½ in	6 in	4 ½ in	San Jamar	H985X	**6CAE2**
Tall Fold	—	150	Chrome	Steel	Mfr. No. 409892	4 ½ in	7 ¾ in	4 ½ in	San Jamar	H900XGR	**6CAE0**

485V83

485V92

485V98

485W17

485V86

Disposable Cutlery

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Material	Pack Count	FORK Item No.	KNIFE Item No.	TEASPOON Item No.	SOUP SPOON Item No.	SPORK Item No.
Unwrapped	Black	Heavy Weight	Polypropylene	1,000	485W11	—	485V98	—	—
Unwrapped	Black	Heavy Weight	Polystyrene	1,000	485V97	485V96	485W12	—	—
Unwrapped	Black	Heavy Weight	Polystyrene	1,000	—	485W10	—	—	—
Unwrapped	White	Heavy Weight	Polypropylene	1,000	—	—	—	485V95	—
Unwrapped	White	Heavy Weight	Polystyrene	1,000	485W07	485W06	485V94	—	—
Unwrapped	White	Heavy Weight	Polystyrene	1,000	485V93	485V92	485W24	485W17	—
Unwrapped	White	Medium Weight	Polypropylene	1,000	485V83	485V82	485V84	—	485V86
Unwrapped	White	Medium Weight	Polystyrene	1,000	—	—	—	485V85	—
Wrapped	Black	Heavy Weight	Polystyrene	1,000	485W19	485W18	485W20	485W21	—
Wrapped	White	Medium Weight	Polypropylene	1,000	485V88	485V87	485V89	485V90	485V91

485W02

Set Contents	Pkg. Qty.	Item No.
Prepackaged Disposable Cutlery Set, Medium Weight, Polypropylene		
Fork, Knife, Napkin, Spoon	250	485W03
Fork, Knife, Napkin, Pepper, Salt, Spoon	250	485W02
Napkin, Spork, Straw	1000	485W04

475M68

45NP89

15J168

13F551

Disposable Cutlery

DIXIE

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Material	Pkg. Qty.	CUTLERY SET: (60) FORKS, KNIVES, SPOONS Item No.	FORK Item No.	KNIFE Item No.	TEASPOON Item No.	SOUP SPOON Item No.	SPOON Item No.
Unwrapped	Black	Medium Weight	Polystyrene	1000	—	13F549	13F550	15J178	13F551	—
Unwrapped	Clear	Heavy Weight	Polystyrene	10	475M68	—	—	—	—	—
Unwrapped	Clear	Heavy Weight	Polystyrene	1000	—	15J147	15J154	15J174	—	—
Wrapped	Black	Heavy Weight	Polypropylene	1000	—	—	15J163	15J168	—	—
Wrapped	Black	Medium Weight	Polystyrene	540	—	45NP88	45NP89	—	—	45NP90
Wrapped	White	Medium Weight	Polypropylene	1000	—	—	15J157	15J179	—	—

21AN17
Mini

6ZCR0

13F548

SmartStock™ CUTLERY DISPENSER DIXIE

SmartStock Dispensers and Cutlery

Enclosed dispensers store utensils and distribute one at a time for hygienic dispensing. Also help reduce waste and countertop clutter. Mini Dispensers are 30% shorter and take up 30% less counter space versus the Classic SmartStock Dispenser. Dispensers work with preassembled disposable cutlery refills, see table below.

Foodservice Dispenser Mounting	Cutlery Dispenser Holds (pcs.)	Dispenser Color	H	W	Brand	DISPENSES: FORK Cutlery Refill Mfr. No.	FORK Item No.	KNIFE Cutlery Refill Mfr. No.	KNIFE Item No.	SPOON Cutlery Refill Mfr. No.	SPOON Item No.	SPORK Cutlery Refill Mfr. No.	SPORK Item No.
Classic Dispenser													
Countertop, Stand, Wall	120 pcs Cutlery	Translucent Smoke	24 ¾ in	10 in	SmartStock	SSF21P	33RL42	SSK21P	33RL43	SSS21P	33RL44	SSPK21P	33RL45
Countertop, Stand, Wall	120 pcs Cutlery	Translucent Smoke	24 ½ in	10 in	SmartStock	SSFHW08	13F558	SSKHW08	13F559	SSHW08	13F560	—	—
Mini Dispenser													
Countertop, Stand, Wall	80 pcs Cutlery	Translucent Smoke	17 11⁄32 in	8 ¼ in	SmartStock	SSF11B, SSF51	21AN16	SSK11B, SSK51	21AN18	SSS11B, SSS51	21AN17	—	—

Color	Foodservice Item Weight	Material	Pkg. Qty.	Brand	FORK Mfr. Model	FORK Item No.	KNIFE Mfr. Model	KNIFE Item No.	SPOON Mfr. Model	SPOON Item No.	SPORK Mfr. Model	SPORK Item No.
Disposable Dispenser Refills, Unwrapped												
Beige	Medium Weight	Plastic	960	Dixie	SSF11B	21AN05	SSK11B	21AN07	SSS11B	21AN06	—	—
Black	Heavy Weight	Polystyrene	960	Dixie	SSFHW08	13F546	SSKHW08	13F547	SSSHW08	13F548	—	—
Black	Medium Weight	Polystyrene	960	Dixie	SSF51	6ZCR0	SSK51	6ZCR2	SSS51	6ZCR1	—	—
White	Medium Weight	Polypropylene	960	Dixie	SSF21P	13F542	SSK21P	13F543	SSS21P	13F545	SSPK21P	13F544

Dispenser Sublease Information

Note: The SmartStock Cutlery Dispensers, owned by Dixie, are not available for sale, but are subleased to end user customers by Grainger, an authorized distributor of these products. The Grainger price is therefore a one-time sublease acquisition fee. The sublease requires that only Dixie products be used in these dispensers. By paying the one-time sublicense fee, you are agreeing to be bound by such sublease. You can review the sublease by visiting the Grainger.com listing for the relevant product.

481C44

481C43

481C45

PrimeWare® by PrimeLink Solutions,Inc.

Eco-Friendly Disposable Cutlery

Waterproof and oilproof cutlery is ideal for all hot and cold food applications. Made from renewable plant starch material resin.

Wrapped/ Unwrapped	Color	Foodservice Item Weight	Pkg. Qty.	FORK Item No.	KNIFE Item No.	SPOON Item No.
Unwrapped	Beige	Heavy Weight	1000	481C44	481C43	481C45

39CR20

38V876

20VG83

15J138

20Y358

Disposable Plates

Microwave safe, except 481C49, 1JYY7, 13E896 and 20Y358.

Size	Pattern	Color	Basic Product Material	Foodservice Item Weight	Brand	Item No.	Pkg. Qty.
Disposable Platter, Oval							
8⅝" x 11"	Pathways	White/Brown/Green	Paper	Heavy Weight	Dixie	**38V873**	500
8⅝" x 11"	Patternless	White	Paper	Heavy Weight	Dixie	**15J226**	500
Disposable Plate, Round							
5⅞"	Patternless	White	Paper	Heavy Weight	Dixie	**21AM92**	1000
6"	Patternless	White	Foam	Light Weight	Dart	**481C49**	1000
6"	Patternless	White	Paper	Light Weight	—	**39CR67**	1000
6⅞"	Pathways	White/Brown/Green	Paper	Medium Weight	Dixie	**38V881**	500
6⅞"	Pathways	White/Brown/Green	Paper	Medium Weight	Dixie	**38V880**	1000
7"	Patternless	White	Paper	Medium Weight	—	**39CR70**	500
8½"	Patternless	White	Paper	Medium Weight	Dixie	**39CR20**	500
8½"	Pathways	White/Brown/Green	Paper	Medium Weight	Dixie	**38V876**	500
8½"	Pathways	White/Brown/Green	Paper	Medium Weight	Dixie	**38V877**	1000
8½"	Pathways	White/Brown/Green	Paper	Medium Weight	Dixie	**15J136**	600
8½"	Pathways	White/Brown/Green	Paper	Heavy Weight	Dixie	**15J134**	500
9"	Patternless	White	Foam	Heavy Weight	Dart	**1JYY7**	500
9"	Patternless	White	Paper	Light Weight	—	**39CR69**	1000
9"	Patternless	White	Paper	Light Weight	—	**39CR68**	1200
9"	Patternless	White	Paper	Medium Weight	—	**39CR71**	1000
8½"	Patternless	White	Paper	Heavy Weight	—	**20VG83**	250
9"	Patternless	White	Paper	Heavy Weight	—	**20VG85**	600
10"	Patternless	White	Foam	Heavy Weight	Dart	**13E896**	500
10"	Patternless	White	Paper	Heavy Weight	—	**20VG86**	250
10⅛"	Pathways	White/Brown/Green	Paper	Heavy Weight	Dixie	**15J138**	500
Disposable Cafeteria Tray, Rectangular							
10 ½" x 8 ¼", 5 Compartment	Patternless	White	Foam	—	Pactiv	**20Y358**	500

659Z75

12L822

481C40

Carry-Out Containers

- Lids for round containers sold separately, see Grainger.com

Basic Product Material	Container Lid	Microwave Safe	Max. Temp.	W	D	H	Brand	Item No.	Pkg. Qty.
Round									
Aluminum	Not Included	No	—	—	9 in	1 21⁄32 in	Boardwalk	**659Z75**	500
Paper	Not Included	Yes	205 °F	3 ⅞ in	—	3 ⅞ in	—	**12L822**	500
Paper	Not Included	Yes	205 °F	4 9⁄16 in	—	5 5⁄16 in	—	**12L823**	500
Plastic	Not Included	No	230 °F	3 in	—	3 in	Dart	**485V64**	500
Square									
Fiber	Included, Hinged	No	212 °F	9 ½ in	9 ⅜ in	3 ¼ in	Solo Cup	**481C40**	200
Foam	Included, Hinged	No	212 °F	6 in	5 ⅞ in	3 in	Dart	**481C48**	500
Foam	Included, Hinged	No	212 °F	9 in	9 ⅜ in	3 in	Dart	**481C47**	200

38V872

20VG82

38V874

30AC15

39E393

Disposable Bowls and Buckets

- Paper material

Capacity	Pattern	Color	Disposable Foodware Coating/Lining	Microwave Safe	Brand	Item No.	Pkg. Qty.
Bowl							
12 oz	Pathways	White/Brown/Green	—	—	Dixie	**15J135**	500
12 oz	Pathways	White/Brown/Green	Water Based Overcoat	—	Dixie	**38V872**	1000
12 oz	Patternless	White	Clay	Yes	—	**20VG82**	500
20 oz	Pathways	White/Brown/Green	Water Based Overcoat	—	Dixie	**38V874**	500
20 oz	Patternless	White	Clay	Yes	—	**20VG81**	250

Cap.	Disposable Container Shape	Color	Microwave Safe	Item No.	Pkg. Qty.
Approved Vendor, Carry-Out Food Container					
53 fl oz	Round	White	Yes	**30AC15**	300
83 fl oz	Round	White	Yes	**30AC14**	100
165 fl oz	Round	White	Yes	**39E393**	100

12M214

Disposable Trays

- Red/white plaid paper trays

Capacity	Microwave Safe	W	H	Item No.	Pkg. Qty.
½ lb	Yes	5 ⅜ in	1 ¼ in	**12M210**	1000
1 lb	Yes	6 ½ in	1 ½ in	**12M211**	1000
2 lb	Yes	6 ½ in	1 ¾ in	**12M212**	1000
2 ½ lb	Yes	7 ½ in	1 ⅞ in	**12M213**	500
3 lb	Yes	8 ⅛ in	2 ⅛ in	**12M214**	500
5 lb	Yes	9 ½ in	2 ⅛ in	**12N388**	500
10 lb	Yes	11 ⅛ in	3 in	**12N389**	250

39E401

475M69

Portion Cups

Cap.	Color	Material	Brand	Item No.	Pkg. Qty.
1 oz	Clear	Plastic	Dixie	**483N06**	4800
1 oz	White	Paper	—	**39E401**	5000
2 oz	Black	Plastic	Dixie	**475M69**	2400
2 oz	Clear	Plastic	Dixie	**475M70**	2400
4 oz	Clear	Plastic	Dixie	**462C21**	2400
5.5 oz	Clear	Plastic	Dixie	**429T76**	2400

40TU77

Single Serve Caffeinated Coffee Cups

IRON BREW COFFEE Enjoy the Brew!

Coffee Roast/ Tea Type	Beverage Flavor	Package Net Weight	Brand	Item No.	Pkg. Qty.
Light	Breakfast Roast	4.80 oz.	Iron Brew	**52WR57**	12
Medium	100% Arabica	2.37 lb.	9 To 5 Coffee	**40TU77**	110
	Carolina Classic	4.80 oz.	Iron Brew	**52WR58**	12
Medium/Dark	Cerrado Gold	4.80 oz.	Iron Brew	**52WR59**	12
Dark	French Roast	2.37 lb.	9 To 5 Coffee	**40TU79**	110
	French Roast	4.80 oz.	Iron Brew	**52WR60**	12

52WR22

52WR37

Ground and Whole Bean Caffeinated Coffee

IRON BREW COFFEE Enjoy the Brew!

- 100% premium arabica beans

For more coffee options, including decaffeinated and french roast, go to Grainger.com.

Beverage Package Style	Individual Package Weight	Pkg. Qty.	Breakfast Roast (Light) Item No.	Carolina Classic (Medium) Item No.	Cerrado Gold (Full City) Item No.	French Roast (Dark) Item No.
Pouch	1.00 lb.	1	**52WR22**	**52WR23**	**52WR24**	**52WR25**
	5.00 lb.	1	**52WR36**	**52WR37**	**52WR38**	**52WR39**

4TDK7

49AL53

45JR79

1BEY8

Ground Coffee

Beverage Flavor	Coffee Roast/ Tea Type	Beverage Package Style	Package Weight	Net Weight	Brand	Item No.	Pkg. Qty.
Caffeinated Coffee							
Espresso Ground							
Espresso	Dark	Fraction Pack	2 oz	4.5 lb	Cafe Bustelo	**45NL35**	30
Ground							
100% Arabica	Medium	Bag	2.1 lb	2.1 lb	Office Snax	**23MJ64**	1
Black Silk	Dark	Can	24.2 oz	1.83 lb	Folgers	**45JR80**	1
	Dark	Filter Pack	1.4 oz	4.8 lb	Folgers	**49AL54**	40
	Dark	Fraction Pack	1.4 oz	4.7 lb	Folgers	**49AL52**	42
Breakfast Roast	Light	Fraction Pack	1.75 oz	5.46 lb	Iron Brew	**52WR68**	50
	Light	Pouch	1 lb	1 lb	Iron Brew	**52WR64**	1
	Light	Pouch	5 lb	5 lb	Iron Brew	**52WR29**	1
	Light	Pouch	12 oz	12 oz	Iron Brew	**52WR43**	1
Carolina Classic	Medium	Fraction Pack	1.75 oz	5.46 lb	Iron Brew	**20VG61**	50
	Medium	Pouch	5 lb	5 lb	Iron Brew	**52WR30**	1
	Medium	Pouch	12 oz	12 oz	Iron Brew	**52WR44**	1
Cerrado Gold	Medium/Dark	Fraction Pack	1.75 oz	5.46 lb	Iron Brew	**52WR69**	50
	Medium/Dark	Pouch	1 lb	1 lb	Iron Brew	**52WR65**	1
	Medium/Dark	Pouch	5 lb	5 lb	Iron Brew	**52WR31**	1
	Medium/Dark	Pouch	12 oz	12 oz	Iron Brew	**52WR45**	1
Classic Roast	Medium	Can	30.5 oz	2.25 lb	Folgers	**45JR79**	1
	Medium	Filter Pack	0.9 oz	3.42 lb	Folgers	**4TDK7**	40
	Medium	Filter Pack	1.4 oz	4.8 lb	Folgers	**49AL53**	40
	Medium	Fraction Pack	0.9 oz	2.29 lb	Folgers	**13E898**	36
	Medium	Fraction Pack	1.5 oz	4.62 lb	Folgers	**4TDK8**	42
French Roast	Dark	Fraction Pack	1.75 oz	5.46 lb	Iron Brew	**20VG63**	50
	Dark	Pouch	5 lb	5 lb	Iron Brew	**52WR32**	1
	Dark	Pouch	12 oz	12 oz	Iron Brew	**52WR46**	1
Gourmet Supreme®	Dark	Fraction Pack	1.75 oz	5.88 lb	Folgers	**26ZL19**	42
Gourmet Supreme® 100% Colombian	Medium	Fraction Pack	1.75 oz	5.88 lb	Folgers	**26ZL18**	42
Original	Medium	Fraction Pack	1.5 oz	5.9 lb	Office Snax	**23MJ66**	63
Regular	Medium	Can	30.6 oz	2.243 lb	Maxwell House	**38F842**	1
	Medium	Fraction Pack	1.5 oz	5 lb	Maxwell House	**1BEY8**	42
Instant							
House Blend	Light/ Medium	Packet	0.06 oz	0.479 lb	Taster's Choice	**12M201**	80
Decaffeinated Coffee							
Ground							
Classic Roast Decaf	Medium	Filter Pack	0.9 oz	3.42 lb	Folgers	**45NL32**	40
	Medium	Fraction Pack	1.5 oz	4.62 lb	Folgers	**4TDK9**	42

19YW89

6GAM9

Automatic Drip Coffee Makers

Capresso Cuisinart

Capresso—48UH48 features an Auto Off mode and uses standard paper filters and ground coffee. 19YW89 features a permanent GoldTone filter.

Cuisinart—Features Brew Pause feature that allows midcycle pouring.

Description	Color	Electrical	Warming Stations	Decanter/ Carafe	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Capresso									
5-Cup	Black	120V, 15 A, 1500 W	No	Glass Decanter	10 in	—	8 in	426.05	**48UH48**
12-Cup	Black	120V, 60 Hz, 900W	No	Glass Decanter	13 in	7 ¼ in	10 in	424.01	**19YW89**
Cuisinart									
4-Cup	Black	120V, 550 W	No	Glass Decanter	10 ½ in	5 ½ in	7 ½ in	WCM04B	**6GAM9**

Single Serve Coffee Brewers

TOUCH The Perfect Cup. Every Time.

Quickly brew a hot cup of coffee in a minute. 30-sec. warm up time when turned on. Features Auto Shutoff mode for safe operation. Accepts K-Cup® along with most portion pack coffee brands. Removable water reservoir.

Min. Brewing Capacity	Max. Brewing Capacity	Color	Voltage	H	W	L	Mfr. Model	Item No.
6 oz	18 oz	Silver	120V AC	14"	8¾"	11½"	T526S	**45KK01**

NEWCO BUNN CRESTWARE

Airpot and Infusion Coffee Brewers

- NSF Certified (except leaver airpots)
- For coffee, see page 1440

Stainless steel units brew directly into airpots (sold separately). Newco 48FP52 is a fresh water system and only boils the required amount of water that is poured into the brewer, for a fresher cup of coffee. 48FP57 features a dump valve system and a water level detection system and a tank on/off switch. Bunn airpot brewers include hot water faucet and cold brew lockout capability. SmartWAVE brewers are low-profile and feature an energy-saver mode.

48FP52

Shown w/Airpots, Sold Separately

Description	Plumbing Req.	Cap.	Brewing Cap.	H (in.)	W (in.)	D (in.)	Brand	Mfr. Model	Item No.
Airpot Brewers									
Pourover	No	4 gal	0.5 gph	23 29/32	8 ½	17 45/64	Newco Coffee	AK-AP	**48FP52**
Automatic Electric	Yes	4 gal	0.5 gph	23 29/32	8 ½	16 13/32	Newco Coffee	FC-AP	**48FP57**
CWTF Airpot, Single	Yes	102 oz	3.8 gph	23 ⅝	9	18 ½	Bunn	CWTF Airpot	**6DHA5**
CW Aps, Pourover	No	102 oz	3.9 gph	23 ⅝	9	18 ½	Bunn	CW Aps	**6DHD4**
Axiom APS, Single Head	Yes	102 oz	4.2 gph	23 ⅝	9	18 ½	Bunn	Axiom APS	**6DHA1**
Axiom APS, Dual Head	Yes	102 oz	15 gph	23 ½	16	17 ¾	Bunn	Axiom Twin APS	**6DHA2**
SmartWave Silver, Single Low Profile	Yes	102 oz	3.9 gph	16 ⅞	8 ¾	17	Bunn	WAVE15S-APS	**6DHA3**
SmartWave, Single Low Profile	Yes	102 oz	3.9 gph	16 ⅞	8 ¾	17	Bunn	WAVE15-APS	**6DHA4**
Leaver Airpots									
Glass Lined	—	2.2 L	—	16	6½	6½	Crestware	APL22G	**19H509**
Stainless Steel Lined	—	2.2 L	—	15	6½	6½	Crestware	APL22S	**19H510**
Glass Lined	—	2.5 L	—	18	6½	6½	Crestware	APL25G	**19H512**
Stainless Steel Lined	—	2.5 L	—	15	6½	6½	Crestware	APL25S	**19H513**
Glass Lined	—	3 L	—	17	6½	6½	Crestware	APL30G	**19H514**
Stainless Steel Lined	—	3 L	—	16¼	6½	6½	Crestware	APL30S	**19H515**
Accessories									
Replacement Lid For Use With Crestware Airpots							Crestware		**19H516**
Insulated Server - 77 oz.							Newco Coffee		**48FP60**
Airpot Serving Rack							Newco Coffee		**48FP61**

19H509

6DHA1

NEWCO BUNN CRESTWARE

Decanter-Style Coffee Brewers

- NSF Certified
- UL Listed
- 120V, 15A
- Stainless steel
- Carafes not included
- For coffee, see page 1440

Automatic Electric Coffee Brewers—Use dump valve solenoid operation for accurate brew volumes and brew temperatures. Standard ready light, pulse water inlet, gravity fed water faucet, and auto-arm with a smart multi-server base design. Plumbing required.

Pourover Coffee Brewers—Have a traditional displacement hot water tank system, a ready light for optimum brewing temperature, and a master On/Off power switch.

48FP50

48FP51

Warming Stations	Cap.	Brewing Cap.	Watts	Plumbing Req.	H (in.)	W (in.)	D (in.)	Mfr. Model	Brand	Item No.
Automatic Electric Coffee Brewers										
3	4 gal	0.5 gph	120V, 15 A, 1500 W	Yes	16 29/32	15 39/64	17 13/32	FC-3	Newco Coffee	**48FP56**
3	4 gal	0.5 gph	120V, 15 A, 1500 W	Yes	18 ½	8 ½	21	FCS-3	Newco Coffee	**48FP55**
3	64 oz	3.9 gph	120V, 15 A, 1500 W	Yes	17	16 ½	17 ¾	CWTF 15 - 3L	Bunn	**6DHC0**
3	64 oz	3.9 gph	120V, 15 A, 1500 W	Yes	19	8 ½	17 ¾	CWTF 15 - 3	Bunn	**6DHA9**
Pourover Coffee Brewers										
2	4 gal	0.5 gph	120V, 15 A, 1500 W	No	18 ½	8 ½	16 13/32	AK-2	Newco Coffee	**48FP50**
2	4 gal	0.5 gph	120V, 15 A, 1500 W	No	18 ½	8 ½	16 13/32	AK-2AS	Newco Coffee	**48FP53** *
2	64 oz	3.9 gph	120V, 15 A, 1575 W	No	26 ⅝	15 ⅞	8	VPR	Bunn	**6DHD1**
3	4 gal	0.5 gph	120V, 15 A, 1500 W	No	16 29/32	15 ½	16 13/32	AK-3	Newco Coffee	**48FP51**
3	4 gal	0.5 gph	120V, 15 A, 1500 W	No	16 29/32	15 ½	16 13/32	AK-3AS	Newco Coffee	**48FP54** *
3	64 oz	3.9 gph	120V, 15 A, 1660 W	No	19 ¾	23 ½	8	VPS	Bunn	**6DHD2**

Description	H	W (in.)	Dia.	Brand	Item No.
Warmer					
2 Station Warmer, 120V, 200W	3 ½" in	14 in	—	Newco Coffee	**48FP65**
Replacement Decanters					
64-oz - Black	7 in7	6¼	6 ¾ in	Crestware	**19H527**
64-oz - Orange	7 in7	6¼	6 ¾ in	Crestware	**19H528**

*Automatic warmer shutdown.

19H528

BUNN CAMBRO

Coffee Urns

Automatic Drip—BUNN urns feature large water tank and half-batch option. Draw off hot water during brewing cycle without affecting coffee quality.

Percolating—Coffee Pro includes a permanent filter basket and locking safety lid with carrying handles.

Insulated—Cambro versatile servers can be used for both hot and cold beverages. Feature dripproof recessed spigot. Servers can be stacked for easy storage.

6DHC2

Description	Material	Cap.	Brewing Cap.	W x H x D	Brand	Mfr. Model	Item No.
Automatic Drip							
Twin	Stainless Steel	20 gal	16.3 gph	34 ½ in x 32 ⅜ in x 21 in	Bunn	U3	**6DHC2**
Percolating							
Single	Stainless Steel	—	50 °C	12" W X 12" H	Coffee Pro	CP50	**51VN86**

Description	Material	Cap.	W x H x D	Color	Brand	Mfr. Model	Item No.
Insulated							
Single	Polyethylene	2½ gal.	16½" x 9" x 18⅜"	Black	Cambro	EA250LCD	**4UJL5**
Single	Polyethylene	2½ gal.	16½" x 9" x 18⅜"	Dark Brown	Cambro	EA250LCD	**4UJL6**
Single	Polyethylene	4¾ gal.	16½" x 9" x 24¼"	Black	Cambro	EA500LCD	**4UJL7**
Single	Polyethylene	4¾ gal.	16½" x 9" x 24¼"	Dark Brown	Cambro	EA500LCD	**4UJL8**

51VN86

4UJL7

1BEZ9

4HDX5

44NX60

647L14

23MJ48

23MJ47

23MJ49

12M203

4FCC6

1BEZ8

12M202

12M199

Sweeteners and Creamers

Description	Size	Brand	Item No.	Pkg. Qty.
Sweeteners				
Aspartame Artificial Sweetener	0.035 oz	Equal	**1BEZ9**	500
Saccharin Artificial Sweetener	1g	Sweet N Low	**4HDX5**	1600
Sugar Canister	20 oz	Office Snax	**44NX60**	24
Sugar Packet	0.20 oz	Sugar In The Raw	**647L14**	400
Sugar Packet	2.8g	Office Snax	**23MJ48**	1200
Powder Creamers				
Non-Dairy Creamer Canister	12 oz	Office Snax	**23MJ47**	24
Non-Dairy Creamer Packets	2.2g	Office Snax	**23MJ49**	800
Powder Coffee Creamer French Vanilla	15 oz	Coffee Mate	**12M203**	12
Liquid Creamers				
Individual Liquid Coffee Creamer, French Vanilla	0.38 oz	Coffee Mate	**4FCC6**	200
Individual Liquid Coffee Creamer, Original	0.38 oz	Coffee Mate	**1BEZ8**	200
Liquid Coffee Creamer French Vanilla	1.5L	Coffee Mate	**26ZL37**	2
Liquid Coffee Creamer Hazelnut	0.38 oz	Coffee Mate	**12M202**	200
Liquid Coffee Creamer Original	1.5 L	Coffee Mate	**12M199**	2

23MJ55

23MJ57

23MJ59

23MJ53

20VG50

484P88

Snacks

Description	Size	Brand	Item No.	Pkg. Qty.
Candy				
All Tyme Mix Candy	2 lb	Office Snax	**23MJ54**	12
	10 lb	Office Snax	**40TU78**	1
Soft and Chewy Candy	2 lb	Office Snax	**23MJ55**	12
	10 lb	Office Snax	**40TU76**	1
Fancy Mix Candy	2 lb	Office Snax	**23MJ56**	12
Tootsie Rolls	28 oz	Office Snax	**23MJ57**	9
Suckers	220 pcs.	Office Snax	**23MJ60**	4
	1440 pcs.	Office Snax	**23MJ59**	1
Sugar Free Assorted Fruit Candy	160 pcs.	Office Snax	**23MJ61**	12
Hard Candy	10 lb	Office Snax	**484P89**	1
Jelly Beans	0.35 oz	Jelly Belly	**484P90**	300
Snacks				
Peanut Butter Pretzels	44 oz	Office Snax	**23MJ53**	6
Graham Cracker Pretzels	32 oz	Office Snax	**20VG50**	6
Peppermints				
Peppermint Puffs	10 lb	Office Snax	**484P88**	1

38ED28

38ED59

Crackers

Description	Size	Brand	Item No.	Pkg. Qty.
Keebler Sandwich Club and Cheddar Crackers	1.8 oz	Keebler	**38ED26**	12
Keebler Sandwich Cheese and Peanut Butter Crackers	1.8 oz	Keebler	**38ED27**	12
Keebler Sandwich Crackers - Peanut Butter	1.8 oz	Keebler	**38ED28**	12
Sunshine Cheez-It Crackers White Cheddar	1.5 oz	Cheez-It	**38ED25**	8
Sunshine Cheez-It Crackers	48 oz	Cheez-It	**38ED59**	1
Sunshine Cheez-It Crackers	1.5 oz	Cheez-It	**38ED24**	8
Sunshine Cheez-It Crackers	1.5 oz	Cheez-It	**38ED57**	45
Sunshine Cheez-It Crackers Reduced Fat	1.5 oz	Cheez-It	**38ED23**	60

Dog Treats

Ingredients: wheat flour, meat and bone meal, ground corn, soybean meal, poultry fat and salt.

Description	Flavor	Size	Item No.
Doggie Biscuits	Assorted	10 lb	**23MJ63**

38ED55

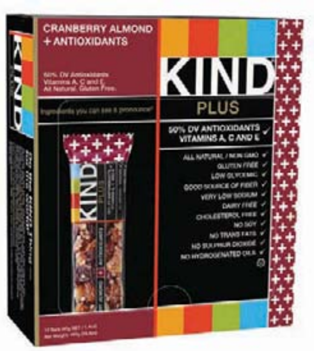
38ED71

Cookies

Description	Size	Brand	Item No.	Pkg. Qty.
Austin(R) Zoo Animal Crackers	2 oz	Austin	**38ED55**	36
Austin(R) Zoo Animal Crackers	2 oz	Austin	**38ED48**	80
Grandma's(R) Mini Vanilla Crème Sandwich Cookies - Vanilla	3.71 oz	Grandma's	**38ED71**	24

Snack Bars

Description	Flavor	Size	Item No.	Pkg. Qty.
Kind				
KIND Plus Nutrition Boost Bar	Cranberry Almond plus Antioxidants	1.4 oz	**38ED61**	12
KIND Plus Nutrition Boost Bar	Pomegranate Blueberry Pistachio Plus Antioxidants	1.4 oz	**38ED62**	12
KIND Plus Nutrition Boost Bar	Chocolate Cherry Cashew Plus Antioxidants	1.4 oz	**38ED63**	12
KIND Plus Nutrition Boost Bar	Peanut Butter Dark Chocolate Plus Protein	1.4 oz	**38ED64**	12
KIND Fruit and Nut Bar	Fruit and Nut Delight	1.4 oz	**38ED65**	12
KIND Fruit and Nut Bar	Almond, Coconut	1.4 oz	**38ED66**	12
KIND Nuts and Spices Bar	Madagascar Vanilla Almond	1.4 oz	**38ED67**	12
KIND Nuts and Spices Bar	Dark Chocolate Nuts with Sea Salt	1.4 oz	**38ED68**	12
Special K				
Kellogg's(R) Special K(R) Protein Meal Bar	Strawberry	1.59 oz	**38ED33**	8
Kellogg's(R) Special K(R) Protein Meal Bars	Chocolate, Peanut Butter	1.59 oz	**38ED34**	8
Nutrigrain				
Kellogg's(R) Nutri-Grain(R) Cereal Bars	Apple Cinnamon	1.3 oz	**38ED41**	16
Kellogg's(R) Nutri-Grain(R) Cereal Bars	Blueberry	1.3 oz	**38ED42**	16
Kellogg's(R) Nutri-Grain(R) Cereal Bars	Raspberry	1.3 oz	**38ED43**	16
Kellogg's(R) Nutri-Grain(R) Cereal Bars	Strawberry	1.3 oz	**38ED44**	16



38ED61

38ED33

38ED41

38ED49

38EE14

38ED30

38ED21

Cereal and Cereal Treats

Description	Size	Item No.	Pkg. Qty.
Cereal			
Froot Loops, Kellogg's	1.5 oz	**38ED19**	6
Frosted Flakes, Kellogg's	2.1 oz	**38ED21**	6
Raisin Bran, Kellogg's	2.8 oz	**38ED22**	6
Frosted Mini Wheats, Kellogg's	2.5 oz	**38ED49**	6
Real Medleys Oatmeal Apple Walnut, Quaker	2.64 oz	**38EE14**	12
Cereal Treats			
Rice Krispies Treats, Kellogg's	1.3 oz	**38ED30**	20

Heating Time Guide recommends times for heating a variety of popular foods

Dependable 6-Minute Electronic Dial Timer is clearly marked in 10, 15 and 30-second increments

6T392

6T038

40GR47

24T746

24T745

40GR49

31EV60

31EV59

Countertop Microwave Ovens

SHARP FRIGIDAIRE

- 1 touch settings
- Without convection cooking
- 120V

Commercial—Compact units feature automatic cook options that allow 1-touch cooking. Feature extremely durable hinges and handles that are suitable for high-volume use. Stainless steel interior is designed without a turntable to promote even cooking and allow for easy cleaning. Commercial UL Listed (E44459). C-UL Listed. NSF Certified. Meet FCC and DHHS standards.

Consumer—Cost-effective units are ideal for home use including several minutes a day of run time. Include turn table to help eliminate hot spots and cook or defrost food more evenly. UL Listed.

Cooking Wattage	Oven Capacity	Appliance Color	Features	Power Levels	Outside W	Outside H	Outside D	Brand	Mfr. Model	Item No.
Commercial, Without Turntable										
1,000 W	0.95 cu ft	Stainless Steel	10 Memory Presets, Compact Design, Digital Display	11	20 ½ in	12 ⅛ in	16 in	Sharp	R21LTF	**6T038**
		Stainless Steel	10 Memory Presets, Compact Design, Dial Timer	1	20 ½ in	12 ⅛ in	16 in	Sharp	R21LCFS	**6T392**
1,200 W	0.75 cu ft	Stainless Steel	10 Memory Presets (100 Total), Compact Design, Defrost Setting	11	17 ½ in	13 ⅝ in	20 ½ in	Sharp	RCD1200M	**4GVY6**
Consumer, With Turntable										
900 W	0.9 cu ft	Black	—	—	19 1⁄64 in	11 1⁄16 in	14 ⅛ in	—	21HE87	**21HE87**
		White	8 11⁄16 in H x 13⅜ in W x 14⅛ in D, Turntable System	—	19 1⁄64 in	11 1⁄16 in	14 ⅛ in	—	21HE86	**21HE86**
1,000 W	1.1 cu ft	Black	Counter Top, Painting Cavity	9	21 ¼ in	11 13⁄16 in	16 11⁄16 in	—	40GR47	**40GR47**
		Stainless Steel	30-sec Plus Cook Button, 4-Digit, 5 Automatic Cook Menus, Easy-to-Read LED	10	20 ⅓ in	12 in	15 in	Sharp	R331ZS	**24T746**
		White	30-sec Plus Cook Button, 4-Digit, 5 Automatic Cook Menus, Easy-to-Read LED	10	20 ⅓ in	12 in	15 in	Sharp	SMC1131CW	**24T745**
		White	Painting Cavity	—	21 ¼ in	11 13⁄16 in	16 11⁄16 in	—	40GR49	**40GR49**
1,100 W	1.6 cu ft	Black	Melt and Soften Easy-Set Start	10	21 ¾ in	12 ⅞ in	18 ½ in	Frigidaire	FFMO1611LB	**31EV60**
		Stainless Steel	Melt and Soften Easy-Set Start	10	21 ¾ in	12 ⅞ in	18 ½ in	Frigidaire	FFMO1611LS	**31EV58**
		White	Melt and Soften Easy-Set Start	10	21 ¾ in	12 ⅞ in	18 ½ in	Frigidaire	FFMO1611LW	**31EV59**

32GM81

48RD67

32GM82

1JYZ2

32GM84

32GM86

Zip Seal Reclosable Bags

Reclosable single zip-seal poly bags are reinforced to help prevent splitting when bags are opened or filled. These bags can be opened and closed quickly.

Thickness	W	L	Bag Closure Type	Item No.	Pkg. Qty.
1 mil	5⅞"	6½"	Zip Seal	**32GM81**	500
1.12 mil	3¼"	6½"	Zip Seal	**48RD67**	90
	5⅛"	6½"	Zip Seal	**48RD68**	90
1.2 mil	5⅞"	6½"	Zip Seal	**40GN90**	40
1.75 mil	7"	7½"	Zip Seal	**1JYZ1**	48
	7"	7½"	Zip Seal	**32GM85**	500
	10½"	11"	Zip Seal	**32GM82**	250
	10⅝"	10¾"	Zip Seal	**1JYZ2**	19
	10¾"	10⅝"	Zip Seal	**32GM90**	38
	13"	15"	Zip Seal	**32GM83**	100
2.6 mil	7"	7½"	Zip Seal	**32GM91**	38
	10¾"	10⅝"	Double Zip Seal	**32GM84**	250
	10¾"	10⅝"	Zip Seal	**32GM92**	28
	13"	15"	Zip Seal	**32GM86**	100
2.7 mil	5"	7"	Zip Seal	**32GM87**	20

46AD35

46AD33

46AD34

46AD39

honey can do INTERNATIONAL

Sugar and Coffee Dispensers

Color	Holds	Includes	W x D x H	Item No.
Sugar Dispenser				
Black/Chrome	6 oz	½ Tspn, ¼ Tspn, Tspn Measuring Stop	2 ⅛ in x 2 9⁄16 in x 8 53⁄64 in	**46AD35**
Red/Chrome	6 oz	½ Tspn, ¼ Tspn, Tspn Measuring Stop	2 ⅛ in x 2 9⁄16 in x 8 53⁄64 in	**46AD33**
Silver/Chrome	6 oz	½ Tspn, ¼ Tspn, Tspn Measuring Stop	2 ⅛ in x 2 9⁄16 in x 8 53⁄64 in	**46AD34**
Coffee Dispenser				
Black/Chrome	8 oz	Coaster	4 ¾ in x 6 ½ in x 15 in	**46AD39**

Coffee Filters

BUNN

Sturdy basket-shaped coffee filters hold coffee grounds and allow coffee to flow through.

Coffee Filter Size	Base Diameter	Flat/Top Diameter	For Use With	Item No.	Pkg. Qty.
8 to 10 Cup	3 in	8 ½ in	8 Cup and 10 Cup Bunn Home Brewers	**20Y355**	1000
8 to 12 Cup	4 ¼ in	9 ¾ in	12 Cup Bunn Brewers	**20Y354**	3000
1½ gal	5 ¼ in	13 ¾ in	Bunn 1.5 gal Coffee Brewers and 3.0 gal Tea Brewers	**20Y350**	500
6 gal	8 ¾ in	21 in	6 Gallon Coffee Urns	**20Y349**	250
10 gal	10 ¾ in	24 ¼ in	10 Gallon Coffee Urns	**20Y348**	252

20Y348

30XN07

30XN02

30XM92

30XM84

can honey do INTERNATIONAL

Kitchen Organizers

Help organize your kitchen or breakroom counterspace, cabinets, and drawers with these innovative storage solutions.

Description	H	W	L	Finish	Mfr. Model	Item No.
Cutlery Trays						
1 Compartment	2 in	3 in	6 in	Powder Coated	KCH-02158	**30XN09**
1 Compartment	2 in	3 in	9 in	Powder Coated	KCH-02159	**30XN10**
1 Compartment	2 in	3 in	12 in	Powder Coated	KCH-02160	**30XN11**
1 Compartment	2 in	6 in	9 in	Powder Coated	KCH-02161	**30XN12**
1 Compartment	9 ¾ in	6 ½ in	12 ½ in	Powder Coated	KCH-02156	**30XN07**
3 Compartment	2 in	11 in	16 in	Powder Coated	KCH-02157	**30XN05**
5 Compartment	2 in	9 ¼ in	12 ¼ in	Powder Coated	KCH-02154	**30XN03**
6 Compartment	2 in	11 ¼ in	16 in	Powder Coated	KCH-02162	**30XN04**
Expandable Cutlery Tray	2 in	20 ¼ in	16 ½ in	Powder Coated	KCH-02163	**30XN06**
Kitchen Cabinet Racks & Organizers						
Cabinet Organizer, Incl. Basket	10 ½ in	17 ½ in	11 ¾ in	Chrome	SHF-03525	**30XN02**
Cabinet Organizer, Incl. Basket	11 in	17 ¾ in	14 ¾ in	Chrome	SHF-01867	**30XN01**
Organizer Rack	8 in	9 ¾ in	15 ¾ in	PE Coating	KCH-01869	**30XM92**
Paper Towel Dispenser	6½"	6½"	14"	—	KCH-01077	**30XM84**
Shelf Organizer	6 29⁄64 in	6 in	14 57⁄64 in	PE Coating	KCH-04370	**30XM99**

48PD66

48PD68

48PD79

contigo

Water Bottles and Insulated Mugs

Description	Cap.	Color	Item No.
Water Bottle - Plastic			
Jackson			
Features Carry Loop, Flip Top	24 oz	Smoke/Gray	**48PD66**
Shake & Go Fit			
Features No Mess Mixing, Easy Cleaning, Rounded Bottom, Weighted Shaker Ball, Carry Handle	28 oz	Blue	**48PD68**
		Black	**48PD69**
Insulated Mug - Stainless Steel			
AUTOSEAL West Loop			
Features AutoSeal Lid, Keeps drinks hot for up to 7 hours and cold for up to 18 hours	16 oz	Black	**48PD75**
	16 oz	Stainless Steel	**48PD74**
	24 oz	Stainless Steel	**48PD79**

22YK05

22YK01

22YJ98

22YK14

22YJ99

Iceberg

Café and Bistro Tables

Contemporary, sleek tables and chairs invite people to come together whether it's for a quick meeting or spontaneous break with coworkers. Tables feature melamine top and underside seal help prevent moisture absorption with T-mold edge. Sturdy, all steel powder-coated silver base with adjustable feet help with uneven flooring. Chairs are ergonomically designed for comfort. Feature seat pan and back for extra support and ease of getting in and out of chair. Easy-to-clean and dent-and-scratch resistant. Powder-coated steel tube frame with nonmarring feet. 15-yr. limited manufacturer's warranty.

Description	H	WALNUT Item No.	GRAY Item No.	GRAPHITE GRANITE Item No.
Cafe Tables				
36" x 36 in Square	30 in	**22YK01**	**22YK02**	**22YK03**
36 in Round	30 in	**22YK05**	**22YK04**	**22YK06**
Bistro Tables				
36" x 36 in Square	42 in	**22YK08**	**22YK07**	**22YK09**
36 in Round	42 in	**22YK12**	**22YK13**	**22YK14**

Description	Back/Seat Color	H	Item No.	Pkg. Qty.
Cafe Chair				
19" Depth	Graphite	32"	**22YJ98**	2
Bistro Stool				
22" Depth	Graphite	44"	**22YJ99**	1

Meal Delivery Carts

- See Grainger.com for more delivery carts

Carts are easy to clean and will not rust, dent, crack, chip or break. Hold hot or cold foods.

Total Quiet Stainless Steel Carts—Offer you a design with notable sound dampening where quiet is a needed commodity. Constructed of 14-ga. stainless steel.
- 250-lb. load capacity
- 2 rigid, 2 swivel casters

Aluminum Carts—2NKJ6 has vertical push handles for easy maneuvering.
- Door folds out 270°
- Corner bumpers

Polyethylene Carts—Feature foam insulation, door gaskets, hinges, and latches. Molded-in handle on back. 2MGH3 has a removable cutting board top. 2MGG8 includes hardware security package. Trays not included.
- Shipped assembled with 6" casters

40XC02

4UJN9

2MGH3

External Dim. W x D x H	No. of Compart.	Tray Size	Tray Cap.	Color	Caster Type	Brand	Item No.
Stainless Steel Carts							
17¼ x 25¼ x 46⅞"	1	14 x 18, 15 x 20, 16 x 22	6/1	Silver	(4) Swivel	Lakeside	**2NKH8**
Total Quiet Carts - 1 Tray/Shelf							
27 19/32 in x 25 41/64 in x 45 1/16 in	1	12 in x 19 in, 12 in x 20 in, 12 in x 22 in, 13 in x 21 in, 14 in x 18 in, 15 in x 20 in	6	Stainless Steel	2 Rigid, 2 Swivel	Carlisle Dinex	**40XC24**
27 19/32 in x 25 41/64 in x 55 13/16 in	1		8	Stainless Steel		Carlisle Dinex	**40XC12**
Total Quiet Carts - 2 Trays/Shelf							
36 7/32 in x 31 41/64 in x 39 51/64 in	1	12 in x 19 in, 12 in x 20 in, 12 in x 22 in, 14 in x 18 in, 13 in x 21 in, 15 in x 20 in	10	Stainless Steel	2 Rigid, 2 Swivel	Carlisle Dinex	**40XA94**
	1	12 in x 19 in, 12 in x 20 in, 12 in x 22 in, 13 in x 21 in, 14 in x 18 in, 15 in x 20 in	10	Stainless Steel		Carlisle Dinex	**40XC07** *
36 7/32 in x 31 41/64 in x 50 35/64 in	1		12	Stainless Steel		Carlisle Dinex	**40XC02**
	1		14	Stainless Steel		Carlisle Dinex	**40XC20**
Aluminum Carts							
24¾ x 32¾ x 60⅛"	1	14 x 18	20/1	Silver	(2) Swivel, (2) Wheels	Lakeside	**2NKJ4**
26¾ x 34¾ x 60⅛	1	15 X 20	20/1	Silver		Lakeside	**2NKJ6**
Polyethylene Carts							
28 x 36½ x 58⅛"	2	14 x 18	16/8	Granite Gray	2 Swivel (With Brake), 2 Rigid	Cambro	**4UJP4**
30⅝ x 39⅛ x 58⅛"	2	15 x 20	16/8	Granite Gray		Cambro	**4UJP3**
48½ x 32½ x 44"	2	14 x 18	20/10	Granite Gray		Cambro	**4UJP2**
55⅛ x 38 x 43¼"	2	15 x 20	20/10	Blue		Cambro	**4UJN8**
	2		20/10	Granite Gray		Cambro	**4UJN9**
For Trays & Sheet Pans							
21½" x 32" x 37½"	1	18 x 26	7	Brown	2 Swivel (1 With Brake), 2 Fixed	Cambro	**2MGH3**
21½" x 33¼" x 63¾"	2		24	Brown	(1) Swivel, (1) Swivel with Brake, (2) Rigid	Cambro	**2MGG6**
	2		24	Brown	2 Swivel (1 With Brake), 2 Fixed	Cambro	**2MGG8**

** Pass-through style.*

2XJH8

Stainless Steel Kitchen Utility Carts

300-lb. Load Capacity—22-ga. shelves and 20-ga. legs. 3½" swivel casters.

450-lb. Load Capacity—20-ga. shelves with 1" lip height, and 150-lb. load capacity per shelf. Four 4" swivel casters, 2 with brake. NSF Certified.

500-lb. Load Capacity—20-ga. shelves. 4" swivel casters, except 20VF46 has 5" casters. Horizontal square tube handle.

700-lb. Load Capacity—18-ga. shelves are stain and rust-resistant. Include ergonomic handles. Two 5" swivel and two 8" rigid casters.

1000-lb. Load Capacity—11- and 14-ga. shelves. Two 5" swivel and two 8" rigid casters. NSF Certified.

No. of Shelves	Shelf Length	Shelf Width	Overall Length	Overall Width	Overall Height	Distance Between Shelves	Brand	Item No.
300-lb. Load Capacity								
3	18 ⅜ in	16 ⅝ in	18 ¾ in	16 ¾ in	30 ⅛ in	10 ¾ in	Lakeside	**20VF43**
	24 in	15 ½ in	27 ½ in	16 ¼ in	32 ⅛ in	11 ¾ in	Lakeside	**20VF41**
	27 in	18 in	30 ¾ in	18 ⅜ in	33 in	12 ¼ in	Lakeside	**20VF42**
450-lb. Load Capacity								
3	30 ¼ in	18 ⅛ in	35 in	21 in	36 in	10 ¼ in	—	**35ZW26**
500-lb. Load Capacity								
3	24 in	15 ½ in	27 ⅝ in	16 ¾ in	32 in	11 ½ in	Lakeside	**20VF44**
	27 in	18 in	31 in	19 in	32 in	11 ½ in	Lakeside	**20VF45**
	35 in	21 in	39 ¼ in	22 ⅜ in	37 ¼ in	13 ⅛ in	Lakeside	**20VF46**
700-lb. Load Capacity								
2	27 in	18 in	32 ⅝ in	19 ⅜ in	35 ½ in	19 in	Lakeside	**20VF47**
	27 in	18 in	35 ⅜ in	18 ⅝ in	46 ¾ in	18 ½ in	Lakeside	**2XJH4** *
3	27 in	18 in	35 ⅜ in	18 ⅝ in	46 ¾ in	10 in	Lakeside	**2XJH5** *
1000-lb. Load Capacity								
2	33 in	21 in	41 ⅜ in	21 ⅝ in	46 ¾ in	18 ½ in	Lakeside	**2XJH8** *
	42 in	24 in	48 in	25 ¾ in	37 ⅜ in	21 in	Lakeside	**2XJJ3**

** Ergonomic handles.*

Kitchen Utility Carts

- 2 raised handles
- 4 swivel casters
- Shipped unassembled

Utility carts are lighter than metal shelf and utility carts and can resist dents, corrosion, and water damage. Carts are used to organize, transport, and store items in a wide range of settings, including offices, schools, mail rooms, medical facilities, loading docks, warehouses, and stock rooms.

38EW09

No. of Shelves	Load Capacity	Overall LxWxH	Shelf LxW	Distance Between Shelves	Shelf Color	Brand	Item No.
3	200-lb	34" x 19" x 38"	28⅜" x 17⅝"	11¾"	Platinum	Rubbermaid	**9DTT3**
3	200-lb	34" x 19" x 38"	28⅜" x 20"	11¾"	Black	Rubbermaid	**4YX40**
3	265-lb	24½" x 16½" x 36"	24½" x 16½"	13"	Gray	—	**38EW09**
3	300-lb	41" x 20" x 38"	40" x 20"	11¾"	Black	Rubbermaid	**4UR32**
3	300-lb	41" x 20" x 38"	40" x 20"	11¾"	Gray	Rubbermaid	**4MC25**
4	300-lb	41" x 20" x 51"	29¼" x 20"	11¾"	Black	Rubbermaid	**4YX44**

2NJZ6

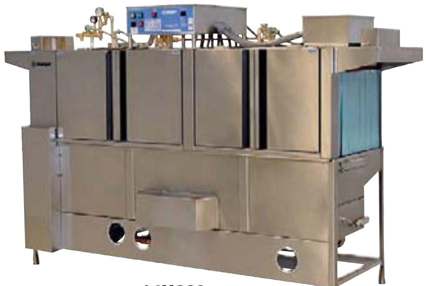
2NKA3

Tray and Glass Dispensing Carts

Adjustable dispensing levels. Platform base stores trays or racks. Perimeter bumpers protect walls and furniture. 4 swivel casters, 2 with brake. NSF Certified.

Item	Overall L (in.)	Overall W (in.)	Overall H (in.)	Tray Cap. (lb.)	Tray Size (in.)	Item No.
Tray and Glass						
Tray Dispenser Cart	19⅞	23¾	36⅛	150	14 x 18, 15 x 20	**2NJZ6**
Cantilever Dispenser						
Tray Dispenser Cart	31½	23½	36½	—	20 x 20	**2NKA3**

14U212



14U220

Insinger

Dishwashers

Sign-off on unit dimensions is required before order can be fulfilled.

Commercial Conveyor— Automatic, rack-type dishwashers have recirculating wash and freshwater final rinse cycles. All except 14U212 include a prewash cycle.

14U212, 14U216, and 14U217 are single-tank models featuring telescoping insulated doors and can clean up to 5825 dishes per hour.

14U220 and 14U221 are double-tank models with inspection doors and low-water protection and can clean up to 6925 dishes per hour.

Includes	Racks per Hour	Water Used	Direction	H	W	D	Item No.
Commercial Conveyor - Rinse Temp: 180 °							
Built-In Booster	233	0.63 gal	R-L	67 ⅜ in	44 in	31 ¼ in	**14U212**
Built-In Booster	233	0.63 gal	R-L	67 ⅜ in	66 in	31 ¼ in	**14U216**
Built-In Booster	233	0.63 gal	L-R	67 ⅜ in	66 in	31 ¼ in	**14U217**
Power Rinse	277	0.52 gal	R-L	67 ⅜ in	86 in	31 ¼ in	**14U220**
Power Rinse	277	0.52 gal	L-R	67 ⅜ in	86 in	31 ¼ in	**14U221**

H6051

CRESTWARE

Bus Tubs

- NSF Certified
- 22½"L

Stackable, handled kitchen bus tubs are constructed from durable polyethylene. Feature ribbed interior surface.

L	W	H	▶CHOOSE: Color	Item No.
Bus Tubs				
22 ½ in	15 ¾ in	5 in	Black, Brown, Gray, White	H6051
	19 in	7 in	Black	H6052
25 ½ in	15 ½ in		Brown, White	
20 ½ in			Gray	
Bus Tub Lids				
22 ½ in	15 ¾ in	1 in	Black, Brown, Gray, White	H6053

41G577

19H523
(Flatware & Cylinders not included)

41G578

19H524

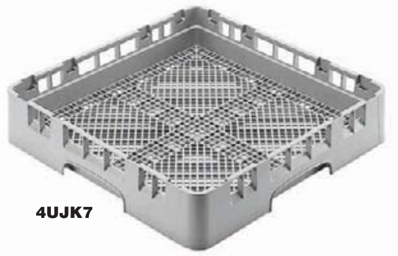
CRESTWARE

Flatware Cylinders

For use with most flatware washing systems.

Description	Material	H	W	Item No.
Silverware Cylinder	Poly	5.25 in	4 ½ in	41G577
Silverware Cylinder	Stainless Steel	5.5 in	4 ½ in	41G578
Flatware Dispenser, 4 Hole	Stainless Steel	8 in	10 in	19H523
Flatware Dispenser, 6 Hole	Stainless Steel	8 in	15 in	19H524

4UJJ3



4UJK7

VOLLRATH

CAMBRO

Dishwasher Racks

Cup and Glass Racks—Hold most standard-size cups and glasses.

Peg and Base Racks—Provide efficient washing, and a safe and sanitary transport and storage system. Keep products clean and eliminate the need for rewashing.

Flatware Racks—Gray color, except 4NCY7 and 4NCY6 are light green.

Dishwasher Rack Accessories—4UJK9 features 4 swivel casters and a 350-lb. load capacity.

No. of Compart.	Overall H (in.)	Max. Glass Dia. (in.)	Max. Glass Height (in.)	Brand	Item No.	Pkg. Qty.
Cup Rack						
20	5.5 in	4.3125 in	4.125 in	Vollrath	4NCZ2	1
Closed Glass Rack Systems						
16	8.875 in	4.375 in	6.875 in	Cambro	4UJH9	3
16	10.5 in	4.375 in	8.5 in	Cambro	4UJJ2	2
25	5.625 in	3.5 in	3.625 in	Cambro	4UJJ3	5
25	7.25 in	3.4444 in	6.125 in	Cambro	4UJJ5	4
25	8.875 in	3.4444 in	7.75 in	Cambro	4UJJ7	3
25	10.5 in	3.4444 in	8.5 in	Cambro	4UJJ8	2

Description	Overall H (in.)	Inside Rack Height (in.)	Outside Rack Height (in.)	Peg Height (in.)	Brand	Item No.	Pkg. Qty.
Peg Racks							
19 ¾ in" x 19 ¾ in" Peg Rack, Full Size	3.25 in	3 ¼ in	4 in	4 in	Cambro	4UJJ9	6
19 ¾ in" x 19 ¾ in" Peg Rack, Full Size	3.25 in	3 ¼ in	4 in	4 in	Cambro	4UJK1	6
19 ¾ in" x 19 ¾ in" Peg Rack, Full Size	3.25 in	2 ¾ in	3.25 in	2 7⁄16 in	Vollrath	4NCY8	1
19 ¾ in" x 19 ¾ in" Open End Rack, Full Size	3.25 in	3 ¼ in	4 in	4 in	Cambro	4UJK2	6
Base Rack							
19 ¾ in" x 19 ¾ in" Base Rack	4 in	3 ¼ in	4 in	—	Cambro	4UJK6	6
Flatware Racks							
Flatware Rack, Full Size	2.625 in	2 ⅝ in	4 in	—	Cambro	4UJK7	6
8 Comp. Flatware Rack w/ Handle, Half Size	4.75 in	4 ¾ in	7.25 in	—	Cambro	4UJK8	6
8 Comp. Flatware Rack w/ Handle, Half Size	13.5 in	4 ¼ in	—	—	Vollrath	4NCY7	1
8 Comp. Flatware Rack w/ out Handle, Half Size	7.25 in	4 ¼ in	—	—	Vollrath	4NCY6	1

Description	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Brand	Item No.	Pkg. Qty.
Dishwasher Rack Accessories						
Dish Rack Dolly	21 ⅜ in	21 ⅜ in	8 in	Cambro	4UJK9	1
Rack Cover	19 ⅝ in	19 ⅝ in	0.9375 in	Cambro	4UJK3	1

NEWAGE INDUSTRIAL

Aluminum Food Service Racks

- Four 5" swivel casters

Half and full bun racks hold 13" x 18", 14" x 18", and 18" x 26" pans. 6THZ7 and 6THZ6 hold 15" x 20" trays only. For additional food service storage shelving and dunnage racks, please visit Grainger.com.

6THX0

Description	Load Capacity	No. of Slots	H	W	D	Item No.
End Loading Racks						
½-Size Bun Pan	500 lb	6	38 in	20 ½ in"	26 in"	6THX4
	500 lb	10	38 in	20 ½ in"	26 in"	6THX1
½-Size Bun Pan, SS Top	500 lb	6	38 in	20 ½ in"	26 in"	6THX3
	500 lb	10	38 in	20 ½ in"	26 in"	6THX0
Full-Size Bun Pan	700 lb	10	69 ¾ in	20 ½ in"	20 ½ in"	6THY0
	700 lb	12	69 ¾ in	20 ½ in"	20 ½ in"	6THX9
	700 lb	15	69 ¾ in	20 ½ in"	20 ½ in"	6THX8
	700 lb	20	69 ¾ in	20 ½ in"	20 ½ in"	6THX7
Tray	500 lb	12	69 in	18 in"	21 in"	6THZ7
Poly Box Storage	700 lb	8	70 in	20 ½ in"	26 in"	6THZ8
Steam Table Pan	500 lb	20	69 in	16 ¼ in"	22 ½ in"	6TJA1
Side Loading Racks						
Full-Size Bun Pan	700 lb	12	69 ¾ in	28 ½ in"	28 ½ in"	6THY5
	700 lb	15	69 ¾ in	28 ½ in"	28 ½ in"	6THY4
	700 lb	20	69 ¾ in	28 ½ in"	28 ½ in"	6THY3
Tray	500 lb	24	69 in	23 ¼ in"	30 ½ in"	6THZ6
Enclosed Rack						
Full-Size Pan	700 lb	40	68 in	21 in"	27 ¾ in"	6TJC9
Knock-Down Racks						
Full-Size Bun Pan	500 lb	12	69 in	20 ½ in"	20 ½ in"	6THY9
	500 lb	20	69 in	20 ½ in"	20 ½ in"	6THY8
	500 lb	30	69 in	20 ½ in"	20 ½ in"	6THY7
Welded Racks						
Full-Size Bun Pan	500 lb	12	69 in	20 ½ in"	20 ½ in"	6THZ2
	500 lb	20	69 in	20 ½ in"	20 ½ in"	6THZ1
	500 lb	30	69 in	20 ½ in"	20 ½ in"	6THZ0
Oval Tray Racks						
Banquet	700 lb	9	63 ¾ in	24 ½ in"	27 in"	6THZ4
	700 lb	10	69 ¾ in	24 ½ in"	27 in"	6THZ3
	700 lb	10	69 ¾ in	26 ½ in"	26 ½ in"	6THZ5
Z-Type Nesting Racks						
Pan	700 lb	20	69 ¾ in	20 ½ in"	20 ½ in"	6TJA4
	700 lb	30	69 ¾ in	20 ½ in"	20 ½ in"	6TJA5

21XY12

ALECO E·S·ROBBINS

TOUGH GUY

Rack and Pan Covers

Safely cover and protect food products. Use Rack Covers on portable and fixed racks. Rack not included.

Description	Color	L	W	Thickness	Brand	Item No.	Pkg. Qty.
PVC	Royal Blue	64 in	23 in	12 mil	Aleco	21XY13	1
PVC	Clear	64 in	23 in	15 mil	Aleco	21XY12	1
Nylon Reinforced PVC	Off White	64 in	23 in	20 mil	Aleco	21XY14	1
High-Density Polyethylene	Clear	80 in80"	29 in	0.59 mil	Tough Guy	3XVY4	50
Low Density Polyethylene, Without Ties, Bag Opens to 53"	Clear	72 in72"	31 in	0.75 mil	—	3CUA6	100
High Density Polyethylene, Without Ties	Clear	80 in80"	52 in	0.5 mil	—	3CUA5	50

CRES COR.

Aluminum Corrugated and Angle Food Service Racks

- Shipped fully assembled
- 5" nonmarking swivel casters (2 locking)

Racks hold 18" x 26" pans. 5EMK9 also holds 14" x 18" trays. 5EML0 is a roll-in refrigerator rack with universal angles for various size pans.

5EMK8

5EMN5

Description	Load Cap.	No. of Slots	H	W	D	Item No.
Corrugated Rack	1,000 lb	39	69 ½ in	21 ¾ in	26 ¾ in	5EMK8
Angle Ledge Rack	1,000 lb	20	69 ¾ in	22 in	29 ¾ in	5EMK9
Universal Angle Rack	1,000 lb	12	64 ½ in	26 ½ in	26 ¾ in	5EML0
Universal Angle Rack	1,000 lb	13	69 ¾ in	25 ½ in	25 in	5EML1
Non-Insulated Transport Storage Cabinet	1,000 lb	40	69 ¾ in	21 in	27 ½ in	5EMN5

2XJL5

LAKESIDE

Stainless Steel Pan and Tray Racks

- Shipped fully assembled
- Nonmarking polyurethane wheels

Tray capacity doubles when half-size trays are used.

Load Capacity	No. of Slots	Pan Size	H	W	D	Item No.
300 lb	16	18 x 13 in, 18 x 26	58 ½ in	21 in	29 ¼ in	2XJL2
300 lb	18	18 x 13 in, 18 x 26	62 ¼ in	21 in	26 ¼ in	2XJL4
300 lb	20	18 x 13 in, 18 x 26	67 ¼ in	21 in	26 ¼ in	2XJL5
300 lb	20	18 x 13 in, 18 x 26	67 ½ in	21 in	27 ¼ in	2XJL1
400 lb	20	18 x 13 in, 18 x 26	68 ½ in	21 in	29 ¼ in	2XJL3

4PLV4

Rubbermaid Commercial Products

Plastic/Steel Food Service Carts

- Shipped unassembled
- 5" nonmarking swivel casters (2 locking)

Load Cap.	No. of Slots	Pan Size	H	W	D	BLACK Item No.	OFF WHITE Item No.
End-Load Racks							
300	18	18 x 26 in	68 in	18 ¾ in"	23 ¾ in"	4PLU9	—
300	18		68 in	23 ¾ in"	28 ¾ in"	4PLV4	4PLV2

Full-Size Pan

Full-Sized Pan w/ Hinged Dome Cover

Solid Cover

Slotted Cover

Stainless Steel Steam Table Pans and Covers

Antijamming feature helps prevent pans from sticking together. Pans sit flat inside well. Covers sold separately.

Cap.	D	Gauge	Item No.
Full-Size Steam Table Pan			
8.3 qt	2 ½ in	22	4NDD2
14 qt	4 in	22	4NDD3
21 qt	6 in	22	4NDD4
Full-Size Perforated Steam Table Pan			
3.9 qt	1 ¼ in	22	4NDJ5
8.3 qt	2 ½ in	22	4NDJ6
14 qt	4 in	22	4NDJ7
21 qt	6 in	22	4NDJ8
Full-Size Heavy Duty Steam Table Pan			
8.3 qt	2 ½ in	20	4NDK2
14 qt	4 in	20	4NDK3
Full-Size Transport Steam Table Pan			
14 qt	4 in	20	4NDL1
28 qt	8 in	20	4NDL3
Two-Thirds Size Steam Table Pan			
9.5 qt	4 in	22	4NDD7
14 qt	6 in	22	4NDD8
Half-Size Steam Table Pan			
4.3 qt	2 ½ in	22	4NDE1
6.7 qt	4 in	22	4NDE2
10 qt	6 in	22	4NDE3
Half-Size Perforated Steam Table Pan			
4.3 qt	2 ½ in	22	4NDJ9
6.7 qt	4 in	22	4NDK1

Cap.	D	Gauge	Item No.
Half-Size Heavy Duty Steam Table Pan			
4.3 qt	2 ½ in	20	4NDK5
6.7 qt	4 in	20	4NDK6
Half-Size Transport Steam Table Pan			
6 qt	4 in	20	4NDL5
10 qt	6 in	20	4NDL6
Half-Size Long Steam Table Pan			
3.7 qt	2 ½ in	22	4NDE5
5.7 qt	4 in	22	4NDE6
Third-Size Steam Table Pan			
1.3 qt	1 ¼ in	22	4NDE8
2.6 qt	2 ½ in	22	4NDE9
4.1 qt	4 in	22	4NDF1
6.1 qt	6 in	22	4NDF2
Fourth-Size Steam Table Pan			
1.8 qt	2 ½ in	22	4NDF3
3 qt	4 in	22	4NDF4
4.5 qt	6 in	22	4NDF5
Sixth-Size Steam Table Pan			
1.2 qt	2 ½ in	22	4NDF6
1.8 qt	4 in	22	4NDF7
2.7 qt	6 in	22	4NDF8
Ninth-Size Steam Table Pan			
0.6 qt	2 in	22	4NDF9
1.1 qt	4 in	22	4NDG1

Description	Full-Size Item No.	Half-Size Item No.	Third-Size Item No.	Fourth-Size Item No.	Sixth-Size Item No.	Ninth-Size Item No.
Solid Cover	4NDG2	4NDG6	4NDH2	4NDH6	4NDH9	4NDJ3
Solid Steam Table Cover	4NDL8	4NDL9	—	—	—	—
Slotted Cover	4NDG3	4NDG7	4NDH3	4NDH7	4NDJ1	4NDJ4
Wire Grate	4NDG4	4NDG8	4NDH4	—	—	—
False Bottom	4NDG5	4NDG9	4NDH5	4NDH8	4NDJ2	—
Hinged Dome Cover	4NEE8	—	—	—	—	—

5YGX4

Sheet Pans

Size	Material	Gauge	Brand	Item No.	Pkg. Qty.
Stayflat Sheet Pans					
25 ⅞ in x 17 ⅞ in	Aluminum	18	Chicago Metallic	38X933	1
Sheet Pans					
6 ½ in W x 9 ½ in L x 1 in D	Aluminum	16	Chicago Metallic	11K097	1
	Anodized Aluminum	16		11K108	1
9 ½ in W x 13 in L x 1 in D	Aluminum	16		11K094	1
	Glazed Aluminum	16		11K095	1
	Anodized Aluminum	16		11K096	1
15 in W x 21 in L x 1 in D	Aluminum	18		11K084	1
	Glazed Aluminum	18		11K085	1
17 ⅞ in W x 25 ⅞ in L x 1 in D	Aluminum	16		11K059	1
18 in W x 13 in L x 1 in D	Aluminum	14		11K088	1
	Anodized Aluminum	14		11K091	1
	Aluminum	18		11K086	1
	Glazed Aluminum	18		11K087	1
	Non Stick Aluminum	18		11K090	1
18 in W x 26 in L x 1 in D	Aluminum	12		11K061	1
	Glazed Aluminum	12		11K062	1
	Non Stick Aluminum	18		11K068	1
	Anodized Aluminum	16		11K080	1
	Glazed Aluminized Steel	22		11K081	1
	Stainless Steel	22		11K083	1
25 ⅞ in x 17 ⅞ in	Aluminum	20		38X935	1
26 x 18 in	Glazed Aluminum	20		38X936	1
Jelly Roll Pans					
12 15⁄16 in W x 17 ¼ in L	Glazed Aluminized Steel	26	Chicago Metallic	11K056	1
Half Size Wire Grate					
16 ½ L x 11 ¾ W x ⅞ inD	Aluminum	—	Vollrath	4RZE1	1
Half Size Sheet Pan					
12 ⅞ in L x 17 ¾ in W x 1 in D	Aluminum	18	Vollrath	4RZD6	1
Full Size Wire Grate					
24 in L x 16 ½ in W x ⅞ in D	Stainless Steel	—	Vollrath	4RZD9	1
Full Size Sheet Pans					
25 ¾ in L x 17 ¾ in W x 1 in D	Aluminum	18	Vollrath	4RZD5	1
	Aluminum	16		4RZD8	1
Display Pans					
18 in W x 26 in L x 1 in D	Aluminum	16	Chicago Metallic	11K111	1
Cookie Sheets					
10 in W x 14 in L	Glazed Aluminized Steel	26	Chicago Metallic	11K051	1
13 ⅞ in W x 18 in L	Glazed Aluminized Steel	26		11K054	1
14 in W x 14 1⁄16 in L	Glazed Aluminized Steel	26		11K052	1
Baking Sheets					
18 in W x 26 in L	Perforated Aluminum	16	Chicago Metallic	11K120	1
Bakeware Sheet Pan					
25 ¾ in L x 17 13⁄16 in W	Aluminum	18	Carlisle	5YGX4	12
Bagel Pans					
18 in W x 26 in L	Glazed Perforated Aluminum	14	Chicago Metallic	11K118	1
	Glazed Perforated Aluminum	12		11K119	1

6CHG5

Heavy-Duty Aluminum Foil

Serrated edge cutter easily tears foil for lining pans and covering dishes. Helps prevent splatters, locks in flavors, keeps food moist, and eases clean up. Withstands high heat and freezing temperatures. Perfect for roasting, grilling, or baking.

Roll Length	W	Std.	Brand	Item No.
500 ft	12 in	FDA Approved	Reynolds	6CHG5
500 ft	18 in	FDA Approved	Reynolds	6CHG6
500 ft	18 in	ASTM B479-95	—	16W483
1,000 ft	18 in	FDA Approved	Reynolds	6CHG4

Rubbermaid Commercial Products CAMBRO

Food Boxes and Lids

- Dishwasher- and freezer-safe
- Durable and stain-resistant

Rubbermaid—Lids sold separately and shipped in carton quantity. 4UEH2 fits most full-size food boxes (except 4UEH3).

5M663

5M682

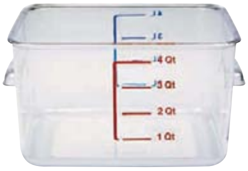
4UKC3

4UKD2

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR CO-POLYESTER CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE CONTAINERS Item No.	Pkg. Qty.	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	CLEAR CO-POLYESTER LIDS Item No.	Pkg. Qty.	WHITE POLYETHYLENE LIDS Item No.	Pkg. Qty.
Rubbermaid													
8 qt	18 in	12 in	3 ½ in	**4UEH4**	1	—	—	—	—	**5M665**	1	—	—
14 qt	18 in	12 in	6 in	**5M664**	1	**5M682**	1	—	—	**5M665**	1	**5M683**	1
20 qt	18 in	12 in	9 in	—	—	**5M678**	1	**5M660**	1	**5M665**	1	**5M683**	1
20 qt	26 in	18 in	3 ½ in	**4UEH3**	1	—	—	—	—	**5M659**	1	—	—
34 qt	26 in	18 in	6 in	**5M663**	1	**5M681**	1	—	—	**5M659**	1	**5M677**	1
50 qt	26 in	18 in	9 in	**5M657**	1	**5M675**	1	—	—	**5M659**	1	**5M677**	1
66.52 qt	26 in	18 in	12 in	**4UEH5**	1	—	—	—	—	**5M659**	1	—	—
86 qt	26 in	18 in	15 in	**5M658**	1	**5M676**	1	—	—	**5M659**	1	**5M677**	1
Colandar/Drain Tray				**4UEH2**	1	—	—	—	—	—	—	—	—

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	CLEAR POLYCARBONATE LIDS Item No.	Pkg. Qty.
Cambro							
20 qt	18 in	26 in	3 ½ in	**4UKC3**	6	**4UKD2**	6
35 qt	18 in	26 in	6 in	**4UKC4**	6	**4UKD2**	6
52 qt	18 in	26 in	9 in	**4UKC5**	4	**4UKD2**	6
68 qt	18 in	26 in	12 in	**4UKC6**	4	**4UKD2**	6
88 qt	18 in	26 in	15 in	**4UKC7**	3	**4UKD2**	6
7 qt	12 in	18 in	3 ½ in	**4UKC8**	6	**4UKD3**	6
12 qt	12 in	18 in	6 in	**4UKC9**	6	**4UKD3**	6
19 qt	12 in	18 in	9 in	**4UKD1**	6	**4UKD3**	6

Rubbermaid Commercial Products CAMBRO



2YJ88

4UJZ9

Storage Containers

- NSF Certified

Rubbermaid—Stain- and break-resistant construction. Round containers nest when empty. 1GAH4 has a removable bail handle.

- Commercial dishwasher safe
- Max. temp.: 212°F

Cambro—Clear polycarbonate construction. Snap-on covers fit tightly.

Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE LIDS Item No.	Pkg. Qty.
Square - Rubbermaid							
2 qt	8 ¾ in	8 ⅞ in	2 ¾ in	**2YJ87**	1	**2YJ94**	1
4 qt	8 ¾ in	8 ⅞ in	4 ¾ in	**2YJ88**	1	**2YJ94**	1
6 qt	8 ¾ in	8 ⅞ in	6 15⁄16 in	**2YJ89**	1	**2YJ94**	1
7 qt	8 ¾ in	8 ⅞ in	8 ¾ in	**2YJ90**	1	**2YJ94**	1
12 qt	11 ¾ in	10 ½ in	7 ¾ in	**2YJ91**	1	**2YJ95**	1
18 qt	11 ¾ in	10 ½ in	11 15⁄16 in	**2YJ92**	1	**2YJ95**	1
22 qt	11 ¾ in	10 ½ in	14 7⁄16 in	**2YJ93**	1	**2YJ95**	1

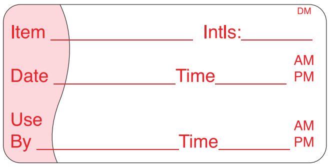
Cap. (qt.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	TRANSLUCENT POLYPROPYLENE LIDS Item No.	Pkg. Qty.
Square - Cambro							
2 qt	7 ¼ in	7 ¼ in	3 ⅞ in	**4UJY8**	6	**4UJZ6**	6
3 qt	7 ¼ in	7 ¼ in	7 ⅜ in	**4UJY9**	6	**4UJZ6**	6
6 qt	8 ⅜ in	8 ⅜ in	7 ¼ in	**4UJZ1**	6	**4UJZ7**	6
8 qt	8 ⅜ in	8 ⅜ in	9 ⅛ in	**4UJZ2**	6	**4UJZ7**	6
12 qt	11 ¼ in	12 ¼ in	8 ¼ in	**4UJZ3**	6	**4UJZ8**	6
18 qt	11 ¼ in	12 ¼ in	12 ⅝ in	**4UJZ4**	6	**4UJZ8**	6
22 qt	11 ¼ in	12 ¼ in	15 ¾ in	**4UJZ5**	6	**4UJZ8**	6

Cap. (qt.)	Dia.	Overall H (in.)	SEMI-CLEAR POLYPROPYLENE CONTAINERS Item No.	Pkg. Qty.	WHITE POLYETHYLENE CONTAINERS Item No.	Pkg. Qty.	YELLOW POLYETHYLENE LIDS Item No.	Pkg. Qty.
Round - Rubbermaid								
2 qt	8 ½ in	4 in	**1GAE4**	1	**1GAF6**	1	**1GAF3**	1
4 qt	8 ½ in	7 ¾ in	**1GAE5**	1	**1GAF7**	1	**1GAF3**	1
6 qt	10 in	7 ⅝ in	**1GAE6**	1	**1GAF8**	1	**1GAF4**	1
8 qt	10 in	10 ⅝ in	**1GAE7**	1	**1GAF9**	1	**1GAF4**	1
12 qt	13 ⅛ in	8 ⅛ in	**1GAE8**	1	**1GAH1**	6	**1GAF5**	1
18 qt	13 ⅛ in	11 ⅞ in	**1GAE9**	1	—	—	**1GAF5**	1
22 qt	13 ⅛ in	14 in	**1GAF1**	1	**1GAH4** *	1	**1GAF5**	1
22 qt	13 ⅛ in	14 in	—	—	**1GAH3**	1	**1GAF5**	1

*** Includes metal ball.***

Cap. (qt.)	Dia.	Overall H (in.)	CLEAR POLYCARBONATE CONTAINERS Item No.	Pkg. Qty.	TRANSLUCENT POLYPROPYLENE LIDS Item No.	Pkg. Qty.
Round - Cambro						
1 qt	6 1⁄16 in	5 in	**4UJZ9**	12	**4UKA8**	12
2 qt	8 3⁄16 in	4 3⁄16 in	**4UKA1**	12	**4UKA9**	12
4 qt	8 3⁄16 in	8 9⁄16 in	**4UKA2**	12	**4UKA9**	12
6 qt	9 15⁄16 in	7 15⁄16 in	**4UKA3**	12	**4UKC1**	12
8 qt	9 15⁄16 in	10 ⅞ in	**4UKA4**	12	**4UKC1**	12
12 qt	14 ⅞ in	8 ⅜ in	**4UKA5**	6	**4UKC2**	6
18 qt	14 ⅞ in	12 in	**4UKA6**	6	**4UKC2**	6
22 qt	13 ½ in	15 in	**4UKA7**	6	**4UKC2**	6

6GUV0



DayMark Safety Systems

22FD08

1-Line Food Prep Marker 6GUW4

Food Storage Labels

Description	H	W	▶CHOOSE: Color	Item No.	Pkg. Qty.
DissolveMark Labels					
Dissolvable Day Labels					
Mon - Sun	2 in	2 in	Blue, Yellow, Red, Brown, Black, Green, Orange	**D5397**	250
Shelf Life Labels					
Dissolvable	2 in	2 in	Blue	**6GUU2**	250
Dissolvable	1 in	2 in	Red	**6GUV0**	500
Dissolvable	2 in	3 in	Blue	**6GUV1**	250
DayMark Dispenser					
2-Slot, 1" Food Label Dispenser	7 ½ in	9 ⅞ in	Silver	**6GUX1**	1
7-Slot, 1" Food Label Dispenser	4 ½ in	7 ¼ in	Silver	**6GUX2**	1
MoveMark Removable Labels					
Removable Day Labels					
Mon - Sun	1 in	1 in	Blue, Yellow, Red, Brown, Green, Orange, Black	**D5402**	1000

† 6GUV2 only includes Items/Date/Shelf Life.

Description	H	W	▶CHOOSE: Color	Item No.	Pkg. Qty.
Removable Dot Box Day Label Kits					
(7) 1000 Label Rolls;1 Roll for each Day	1 in	1 in	7 Colors	**6GUW0**	7000
Removable Shelf Life					
Mon - Sun	2 in	2 in	Blue, Yellow, Red, Brown, Green, Orange, Black	**D5398**	500
Shelf Life	2 in	3 in	Black	**6GUV2** †	500
Removable Use First Labels					
Use First	3 in	3 in	Orange	**6GUW1**	500
ToughMark Label					
Allergen	2 in	3 in	Purple/White	**22FD08**	1
DuraMark Label Guns, Labels and Ink Roller					
Food Prep Marker Date Coder 1-Line			Red	**6GUW4**	1
Permanent Blank Labels			White	**6GUW6**	8000
Permanent Blank Labels			Orange	**6GUW7**	8000
Food Prep Ink Roller - 5 Pack For Use With 6GUW4, 6GUW5				**6GUX0**	5

5M684

2ERY4

4UJR9

4UEY1

Rubbermaid Commercial Products CAMBRO

Bulk Storage Bins

Stores dry bulk ingredients.

MOBILE BULK STORAGE BINS

Sloped, clear plastic hinged lid. 3" casters (2 rigid, 2 swivel).

BULK STORAGE BINS

Allow 1-handed access to contents while bins are stacked. Feature first-in, first-out barrier for proper rotation of ingredients. Clear windows and ingredient labels. Include scoop.

MOBILE INGREDIENT BINS

Clear sliding lid reduces handling and provides quick content identification. Designed to fit under work tables. All bins have a slant top, except 4UJT2 has a flap top. No liners are needed. 3" casters with 2-front swivel, and 2-fixed. Scoop not included.

Cap. (gal.)	Overall Length (in.)	Overall W (in.)	Overall H (in.)	Item No.
Mobile Bulk Storage Bins w/32 oz Scoop - RUBBERMAID COMMERCIAL PRODUCTS				
84 qt	29 ¼ in	13 ⅛ in	28 in	**5M684**
104 qt	29 ¼ in	15 ½ in	28 in	**5M685**
124 qt	29 ¼ in	18 in	28 in	**5M686**
Bulk Storage Bins w/2-cup Clear Scoop - RUBBERMAID COMMERCIAL PRODUCTS				
10.48 qt	15 in	11 ¾ in	8 ½ in	**4UEX9**
21.63 qt	23 ½ in	11 ½ in	16 ⅞ in	**2ERY4**
42.8 qt	23 ½ in	19 ⅛ in	16 ⅞ in	**2ERY5**
Mobile Ingredient Bins w/S-Hook - CAMBRO				
84 qt	29 ½ in	13 in	28 in	**4UJR8**
106.8 qt	30 ⅛ in	13 in	28 ½ in	**4UJT2**
108 qt	29 ⅝ in	16 5⁄16 in	28 in	**4UJR9**
148 qt	29 ½ in	21 ½ in	28 in	**4UJT1**

Description	Item No.
Accessories - Rubbermaid Commercial Products	
Lid with 32-oz. Scoop for 5M684	**2ERX8**
Lid with 32-oz. Scoop for 5M685	**2ERX9**
Lid with 32-oz. Scoop for 5M686	**2ERY1**
Lid with 2 Cup Scoop for 4UEY4	**4UEY1**
Lid with 4 Cup Scoop for 4UEY6	**4UEY3**
Replacement Scoop, 32 Oz., Pkg. of 6	**2ERY2**

2MGC8

22NV15

CAMBRO

Camshelving Polypropylene Shelving with Steel Core

Polypropylene Vented Shelving Units—For use in walk-in freezers, refrigerators, or wet/dry environments. Shelf plates are dishwasher safe. Shelves adjust in 4" increments. Include 2 post kits, 8 traverses, and shelf plates.

Mobile Shelving Unit Stands—Include 4 posts, post connectors, traverses, vented shelf plates, and casters.

Center Support for Shelving Stands—Weight bearing capacities up to 1000 lb. on bottom shelf units 54" or longer.

Lockable Security Cage for Shelving Stands—Fit on standard Camshelving units 24" wide and 48" longer.

H	W	D	Item No.
Polypropylene Vented Shelving Units			
72"	36"	18"	**2MGC8**
		18"	**22NV17**
		21"	**2MGD2**
		24"	**2MGD5**
		24"	**22NV20**
	48"	21"	**2MGD3**
		24"	**2MGD6**
		18"	**2MGC9**
		18"	**22NV18**
		24"	**22NV21**
	60"	21"	**2MGD4**
		24"	**2MGD7**
		18"	**2MGD1**
		18"	**22NV19**
		24"	**22NV22**
Mobile Shelving Unit Stands			
75"	48"	18"	**4UHX4**
		24"	**4UHX3**
Center Support for Shelving Stands			
6"	—	18"	**4UHX5**
		21"	**4UHX6**
		24"	**4UHX7**
Lockable Security Cages for Shelving Stands			
18"	42 ½"	25 ¼"	**4UHX8**
65"	50"	24"	**22NV16**
68"		24"	**22NV15**

12F885

CAMBRO

Camshelving Elements Series

- Composite material
- Brushed graphite color
- Shelf plates are easily removed and dishwasher safe

Resistant to moisture; won't rust or corrode. Withstand temperatures from -36° to 190°F.

Mobile Starter Shelf Units—Include 4 mobile posts, post connectors and wedges installed, 8 mobile traverses, 32 dovetails, and shelf plates for 4 shelves.

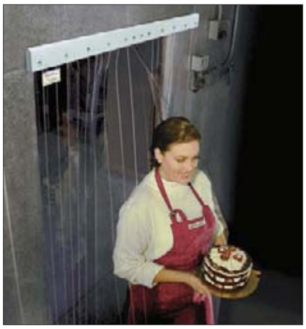
Stationary Starter Shelf Units—Include 2 post kits, 8 traverses, 32 dovetails, and shelf plates to build 1 entire unit.

Stationary Add-On Shelf Units—Include 1 post kit, 8 traverses, 32 dovetails, and shelf plates to attach to adjoining unit.

H	W	D	PREMIUM Item No.
Mobile Starter Shelf Units - 800 lb. Cap. Per Shelf			
70"	36"	18"	**12F885**
	36"	21"	**12F893**
	36"	24"	**12F902**
	48"	18"	**12F889**
	48"	21"	**12F897**
	48"	24"	**12F906**
78"	36"	18"	**12F887**
	36"	21"	**12F895**
	36"	24"	**12F904**
	48"	18"	**12F891**
	48"	21"	**12F899**
	48"	24"	**12F908**

H	W	D	STARTER Item No.	STARTER Shelf Cap.	ADD-ON Item No.	ADD-ON Shelf Cap.
Stationary Shelf Units						
72"	36"	18"	**12F910**	800 lb.	—	
72"	48"	18"	**12F911**	800 lb.	**12F919**	800 lb.
72"	60"	18"	**12F912**	600 lb.	**12F920**	600 lb.
72"	36"	21"	**12F913**	800 lb.	—	
72"	48"	21"	**12F914**	800 lb.	**12F921**	800 lb.
72"	60"	21"	**12F915**	600 lb.	**12F922**	600 lb.
72"	36"	24"	**12F916**	800 lb.	—	
72"	48"	24"	**12F917**	800 lb.	**12F923**	800 lb.
72"	60"	24"	**12F918**	600 lb.	**12F924**	800 lb.

Strip Door



TMI LLC

Cooler/Freezer Strip Doors

Feature easy snap-on/snap-off installation with low-profile, polypropylene mounting hardware. Stay securely in place for all-day use. Cost-effective strips are energy efficient.

Temp. Range	Strip Type	Strip Width	Strip Length	No. of Strips	Mfr. Model	Item No.
Strip Door						
-20°to 140°F	Reinforced, Smooth	6 in	7 ft 3 in	10	999-00209	**1VKB7**
-20°to 140°F	Reinforced, Smooth	8 in	7 ft 3 in	7	999-00211	**1VKB9**
Replacement Strips						
-20° to 140°F	Reinforced, Smooth	6 in	7 ft 3 in	5	999-00663	**407K52**
-20° to 140°F	Reinforced, Smooth	8 in	7 ft 3 in	4	999-00015	**3TB16**
Strip Door Hardware						
3 ft. 4" L	—	—	—	—	999-10106	**407K51**

TWIN Master Cutlery

- Handle color black

Stain- and corrosion-resistant high-carbon stainless steel blades are remarkably safe, flexible, lightweight, and stay sharper longer. Blades also feature a precision-honed and laser-controlled edge for ideal cutting angles and durability. Ideal for use in commercial kitchens. Safe-grip, polypropylene ergonomic handles. Dishwasher-safe.

L	Type	Blade Type	Item No.
6 in	Narrow Boning Knives	Flexible	402D76
	Narrow Boning Knives	Straight	402D75
	Narrow Boning Knives	Wide	402D77
8 in	Butcher Knives	Curved	402D78
	Chef Butcher Knives	Straight	402D79
	Chef Knives	Straight	402D80
9 ½ in	Bread Knives	Scalloped	402D83
	Chef Knives	Straight	402D81
	Serrated Knives	Slicer	402D84
	Slicer Knives	Straight	402D82
11 ½ in	Chef Knives	Straight	402D86
	Serrated Knives	Slicer	402D85

Butcher Knife
402D78

Chef's Knife
402D86

Serrated Knife
402D85

Cutlery

Genesis—Precision forged with ergonomic handles, full tang.

Renaissance—Triple-riveted, 1-pc. knives are stain-free and razor sharp. Feature taper ground edges, full tang.

Millennia—Stain-free and formed from a single piece of steel for exceptional strength.

Ultimate White—Stamped, stain-free, and razor-sharp with long-lasting edges. Feature textured finger points for a comfortable and safe grip.

Millennia Colors—Knives feature color-coded handles for dedicated use in food safety handling practices.

L	Blade Material (High Carbon Stainless Steel)	Blade Type	▶CHOOSE: Handle Color	Series	Item No.
Boning Knife					
6 in	Forged	Flexible	Black	Genesis	6AKG3
6 in	Forged		Black	Renaissance	6AKF0
6 in	Forged	Stiff	Black	Genesis	6AKG2
6 in	Forged		Black	Renaissance	6AKE9
6 in	Stamped	Narrow	Black	Millennia	6AKJ9
6 in	Stamped		White	Ultimate White	6AKN9
6 in	Stamped	Straight	Black	Millennia	6AKK0
Bread Knife					
8 in	Forged	Wavy Edge	Black	Genesis	6AKG8
8 in	Forged		Black	Renaissance	6AKF1
Carving Knife					
8 in	Forged	Straight	Black	Genesis	6AKG6
10 in	Forged	Granton Edge	Black	Genesis	6AKH7
10 in	Forged	Straight	Black	Genesis	6AKG7
10 in	Forged		Black	Renaissance	6AKF2
Chef/Utility Knife					
8 in	Stamped	Straight	White	Ultimate White	6AKP0
10 in	Stamped		White	Ultimate White	6AKP1
Chef's Knife					
6 in	Forged	Straight	Black	Genesis	6AKG9
8 in	Forged		Black	Genesis	6AKH0
8 in	Forged		Black	Renaissance	6AKE5
8 in	Stamped		Black	Millennia	6AKK3
8 in	Stamped		Blue, Green, Red, Yellow	Millennia Colors	G6166
9 in	Forged		Black	Genesis	6AKH1
9 in	Forged		Black	Renaissance	6AKE6
9 in	Stamped		Black	Millennia	6AKK4
10 in	Forged		Black	Genesis	6AKH2
10 in	Forged		Black	Renaissance	6AKE7
10 in	Stamped		Black	Millennia	6AKK5
10 in	Stamped		Blue, Green, Red, Yellow	Millennia Colors	G6167
12 in	Stamped		Black	Millennia	6AKK6
12 in	Stamped		White	Ultimate White	12E727
Chinese Chef Knife					
8 in	Stamped	Rectangular	Black	Mercer Tools	6AKT3

L	Blade Material (High Carbon Stainless Steel)	Blade Type	▶CHOOSE: Handle Color	Series	Item No.
Cleaver					
6 in	Stamped	Straight	Black	Mercer Tools	6AKT1
7 in	Stamped		Black	Mercer Tools	6AKT2
Fillet Knife					
7 in	Forged	Flexible	Black	Genesis	6AKG4
7 in	Forged	Straight	Black	Renaissance	6AKF7
7 in	Stamped		White	Ultimate White	12E728
Nakiri Knife					
7 in	Forged	Rectangular	Black	Genesis	6AKH5
Paring Knife					
3 ½ in	Forged	Straight	Black	Genesis	6AKG1
3 ½ in	Forged		Black	Renaissance	6AKE8
3 in	Stamped		Black	Millennia	6AKT4
3 in	Stamped		Blue, Green, Red, Yellow	Millennia® Colors	G6165
3 in	Stamped		White	Ultimate White	12E729
Peeling Knife					
2 ½ in	Forged	Curved	Black	Renaissance	6AKF8
3 in	Forged		Black	Genesis	6AKH9
Santoku Knife					
7 in	Forged	Granton Edge	Black	Genesis	6AKH3
7 in	Forged		Black	Renaissance	6AKF3
Slicer Knife					
11 in	Stamped	Granton Edge	Black	Renaissance	6AKG0
11 in	Stamped	Wavy Edge	Black	Renaissance	6AKF9
11 in	Stamped		White	Ultimate White	6AKP3
14 in	Stamped	Granton Edge	Black	Millennia	6AKR7
Utility Knife					
5 in	Forged	Straight	Black	Genesis	6AKG5
5 in	Forged		Black	Renaissance	6AKF4
8 in	Stamped	Offset Wavy Edge	Blue, Green, Red, Yellow	Millenia Colors	G6169
8 in	Stamped		White	Ultimate White	6AKP2

Genesis

Renaissance

Millennia

Ultimate White

Description	Series	Item No.
Knife Sets		
Starter Set, 4-Pc.	Genesis	6AKJ4
Knife Block Set, 6-Pc.	Renaissance	12E730
Knife Glass Block Set, 6-Pc.	Genesis	6AKJ0
Knife Roll Set, 7-Pc.		6AKJ1
Steak Knife Set, 7-Pc.		6AKJ5
Knife Case Set, 10-Pc.		6AKJ2

Blade Type	Series	Item No.
Specialty Tools		
Channel Knife	Mercer Tools	6CHH5
Offset Spreader, 13 ⅜ inL, Black Polypropylene Handle		6AKV1
Straight Spreader, 15 ¼ inL		6AKU9
Bench Scraper, Stainless Steel, Black Polypropylene Handle, 6 inW	Millennia	6AKV0
Vegetable Peeler, Stainless Steel	Mercer Tools	6CHH7
Knife Guards, For Use With Knives:		
2 ½ in Peeling, 3 ½ in Paring	Mercer Tools	6AKT5
5 in Tomato, 5 in Utility, 6 in Boning, 6 in Utility		6AKT6
6 in Chef's		6AKU2
7 in Fillet, 8 in Bread, 8 in Carving, 8 in Utility		6AKU0
7 in to 8 in Chef's, Cleaver, Nakiri, Santoku		6AKT8
10 in Chef's, 10 in Wide Bread, 9 in Chef's		6AKT7
11 in Slicer, 12 in Chef's, 12 in Slicer		6AKT9
10 in Bread, 10 in Carving		6AKU1
Triple Diamond	Electric Knife Sharpeners	12E726

3-Stage Electric Knife Sharpener

100% diamond abrasives with built-in precision angle guides is designed to sharpen straight edge, serrated, butcher, cleaver, pocket, and sporting knives. Stage 1— sharpens extremely dull knives, Stage 2— puts a quick edge back on, good for maintaining. Stage 3— takes off burrs, giving a smooth, razor sharp edge.

Description	No. of Stages	W	H	D	Item No.
Triple Diamond	3	10 in	4 ¼ in	4 ¼ in	12E726

Food Service and Food Processing Cutlery

Stain-free, hand-honed blade provides ultimate edge for easier slicing.

Basics—Slip-resistant polypropylene handle.

Traditional—Natural hardwood handle is secured to blade with brass compression rivets.

Sani-Safe—Textured, slip-resistant handle withstands high and low temperatures. Impervious blade-to-handle seal provides sanitation.

Prodex—Pronounced ribbed textured handle provides slip-resistance gripping positions.

SofGrip—Nonslip soft rubber grip helps reduce stress, fatigue, and common wrist injuries.

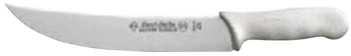
iCUT-PRO—Soft Santoprene handle for comfortable grip. German stainless steel blade provides durability.

Traditional Boning Knife
3HE24

Basics Bread Knife
4VEA3

Sani-Safe Chef Knife
4VEC1

iCUT-PRO Santoku Knife
38X896


Sani-Safe Cimeter Knife
2TLP3

Sani-Safe Fillet Knife
2TLJ2

Basics Cleaver
3HE53

SofGrip Poultry and Kitchen Shears
38X902

Knife Guard
38X908

Prodex Breaking Knife
20Y659

Boning, Node Hook
3HE56

Sani-Safe Poultry Sticker Knife
3HE66

Description	L	►CHOOSE: Handle Color	Series	Item No.
Food Service Cutlery				
Boning Knives				
Narrow Straight	6"	Brown	Traditional	**3HE24**
	6"	Black	Basics	**4VEA4**
Narrow Curved/Stiff	6"	White	Sani-Safe	**3HB96**
Bread Slicer Knives				
Scalloped, Offset	8"	Black	Basics	**4VEA6**
Scalloped	8"	Black	Basics	**4VEA5**
	8"	Blue, Green, Red	Sani-Safe	**J5893**
	10"	Black	Basics	**4VEA2**
	12"	Black	Basics	**4VEA3**
Curved/Scalloped	10"	White	Sani-Safe	**4VEC3**
Breaking Knife				
Curved	8"	Black	SofGrip	**20Y656**
Butcher Knives				
Straight	6"	White	Sani-Safe	**2TLN5**
	12"	White	Sani-Safe	**2TLJ7**
Chef/Cook's Knives				
Straight	8"	White	Sani-Safe	**4VEC1**
	8"	Black	Basics	**4VEA1**
	10"	White	Sani-Safe	**4VEA9**
	10"	Black	Basics	**4VDZ9**
	7"	Black	iCUT-PRO Duo Edge Santoku Knife	**38X896**
	8"	Blue, Green, Red, Yellow	Sani-Safe	**J5890**
	10"	Blue, Green, Red, Yellow	Sani-Safe	**J5891**
Cimeter Knives				
Straight	10"	White	Sani-Safe	**2TLP3**
	12"	White	Sani-Safe	**3HE35**
Cleaver				
Straight	7"	Rosewood	Traditional	**38X895**
Fillet Knives				
Wide	8"	White	Sani-Safe	**2TLJ3**
Narrow	9"	White	Sani-Safe	**2TLJ2**
Paring Knives				
Scalloped	3¼"	White	Sani-Safe	**4VEC5**
	3¼"	Black	Basics	**4VEA8**
Straight	3⅛"	Black	Basics	**4VEA7**
	3⅛"	White	Basics	**38X898**
	3¼"	Blue, Green, Red, Yellow	Sani-Safe	**J5895**
Roast Slicer Knives				
Scalloped	9"	White	Sani-Safe	**4VEC4**
Straight	12"	White	Sani-Safe	**4VEC7**
Scalloped	10"	White	Basics	**38X897**
Specialty Tools				
Dough Cutter/Scraper, 6" x 3"	6"	WhiteSilver	Sani-Safe	**38X894**
Produce Knife w/Bottom Finger Guard	5"	White	Sani-Safe	**3HU39**
Vegetable/Utility Knife	3½"	White	Sani-Safe	**3HU12**
Clam Knife	3"	White	Sani-Safe	**2TLJ9**
Oyster Knife, Galveston Style	4"	White	Sani-Safe	**2TLJ8**
Cleaver w/Hardwood Handle	6"	Brown	Basics	**3HE53**
Poultry and Kitchen Shears	7½"	Black/Blue	SofGrip	**38X902**
Sharpener/Steel				
Knife Sharpener	10"	—	Sani-Safe	**38X901**
Knife Guards				
For Use with Paring Knives	4 in	Black	—	**38X903**
For Use with Boning and Fillet Knives	6 in	Black	—	**38X904**
For Use with All Wide Knives Up to 8 in	8 in	Black	—	**38X908**
For Use with Chef Knives Up to 8 in	8 in	Black	—	**38X905**
For Use with All Knives Up to 10 in	10 in	Black	—	**38X906**
For Use with All Wide Knives Up to 10 in	10 in	Black	—	**38X909**
For Use with All Knives Up to 12 in	12 in	Black	—	**38X907**
Cutlery Bag				
Holds 35 Pieces	18"	Black	—	**54RY64**

Description	L	Handle Color	Series	Item No.
Food Processing Cutlery				
Boning Hook & Knives				
Boning Hook	4 in	Orange	Sani-Safe	**3HE54**
Curved/Flexible	6 in	White	Sani-Safe	**3HB95**
Straight/Flexible	6 in	White	Sani-Safe	**3HE16**
Narrow Straight	6 in	White	Sani-Safe	**3HE17**
Straight/Wide	6 in	White	Sani-Safe	**3HE15**
Curved/Stiff	6 in	Black	Sani-Safe	**2TLN1**
Curved	5 in	Black	Prodex	**20Y657**
	6 in	Black	Prodex	**20Y658**
	8 in	Black	Prodex	**20Y659**
Breaking Knife				
Narrow	8 in	White	Sani-Safe	**3HE33**
Butcher Knives				
Straight	8 in	White	Sani-Safe	**3HE31**
	10 in	White	Sani-Safe	**3HE32**
Deboning Knives				
Straight	3 ¼ in	Orange	Sani-Safe	**20Y655**
	3 ¾ in	Orange	Sani-Safe	**20Y653**
	6 in	Orange	Sani-Safe	**20Y654**
Clip Point	3 ¼ in	Orange	Sani-Safe	**3HE73**
Wide Clip Point	2 ½ in	Orange	Sani-Safe	**20Y652**
Wide	3 ¼ in	Orange	Sani-Safe	**2TLK3**
Straight	4 ½ in	Orange	Sani-Safe	**3HE75**
3 Degree Drop Point	3 ¾ in	Orange	Sani-Safe	**2TLK2**
Tender/Shoulder/Trim	2 ½ in	Orange	Sani-Safe	**3HE72**
Fillet Knife				
Narrow	8 in	White	Sani-Safe	**3HE58**
Heading Knife				
Stiff	7 ½ in	White	Sani-Safe	**3HE37**
Boning, Node Hook				
Straight	6 in	White	Sani-Safe	**3HE56**
Paring Knife				
Straight	3 ¼ in	Brown	Traditional	**3HU19**
Poultry Sticker Knife				
Straight	3 in	White	Sani-Safe	**3HE66**
Produce Knife				
W/Guard	6 in	Brown	Traditional	**3HU41**
Skinning Knives				
Beef, Curved	6 in	White	Sani-Safe	**3HE39**
	6 in	Black	Sani-Safe	**2TLN4**
Lamb, Curved	5 ¼ in	Black	Sani-Safe	**2TLN3**
Sliming Knife				
Straight	4 ½ in	White	Sani-Safe	**2TLJ6**
Sticking Knife				
W/Guard	6 in	Brown	Traditional	**3HE38**
Utility Knives				
Scalloped	6 in	White	Sani-Safe	**4VEC6**
Net/Twine/Line, Serrated	3 ½ in	Orange	Sani-Safe	**2TLJ4**
Net/Twine/Line Knife w/Sheath	3 ¼ in	White	Sani-Safe	**3HU13**
No Work Steel				
No Work Steel	10 in	Green	Traditional	**20Y651**

Round Brush · Can Opener · Measuring Cup · Scraper · Tongs · French Whip · Spatula · Basting Spoon

Utensils

Description	Brand	Item No.	Pkg. Qty.
Round Brushes			
Nylon Bristle 1 in" W x 1 22/25 in" L	Carlisle	14D304	12
Can Openers			
Cast Aluminum Table Mount Can Opener	Crestware	41G579	1
Gear Driven Can Opener, Red Handle	Crestware	16W538	1
Carbon Steel Can Tapper, Pkg. of 60	TableCraft	6EZR0	60
Firm Grip Hand Can Opener, Black Handle	TableCraft	6EZJ8	1
16" Cast Aluminum	TableCraft	6EZL2	1
8¼" Cast Aluminum	TableCraft	6EZL1	1
Measuring Cup Sets			
⅓ cup / ¼ cup / ½ cup / 1 cup - Heavy-Duty Stainless Steel	Crestware	21D735	1
⅓ cup / ¼ cup / ½ cup / 1 cup - Stainless Steel	Crestware	21D734	1
Measuring Cups			
¼ cup - Stainless Steel	Crestware	21D737	1
1 cup - Aluminum	Crestware	21D736	1
1 cup - Polycarbonate	Rubbermaid Commercial Products	2YU26	1
1 pt - Polycarbonate	Rubbermaid Commercial Products	2YU27	1
½ qt Dry Measure - Aluminum	Crestware	21D747	1
½ qt Liquid Measure - Aluminum	Crestware	21D746	1
1 qt - Polycarbonate	Rubbermaid Commercial Products	2YU28	1
1 qt Dry Measure - Aluminum	Crestware	21D741	1
1 qt Liquid Measure - Aluminum	Crestware	21D740	1
2 qt - Polycarbonate	Rubbermaid Commercial Products	2YU29	1
2 qt Dry Measure - Aluminum	Crestware	21D743	1
2 qt Liquid Measure - Aluminum	Crestware	21D742	1
4 qt Dry Measure - Aluminum	Crestware	21D745	1
4 qt Liquid Measure - Aluminum	Crestware	21D744	1
4 qt - Polycarbonate	Rubbermaid Commercial Products	2YU30	1
Graduated Measures			
½ qt - Stainless Steel	Vollrath	4NCL7	1
1 qt - Stainless Steel	Vollrath	4NCL8	1
2 qt - Stainless Steel	Vollrath	4NCL9	1
Measuring Spoon Sets			
¼ tsp / ½ tsp / 1 tsp / 1 tbsp - Heavy Duty Stainless Steel	Crestware	21D739	1
¼ tsp / ½ tsp / 1 tsp / 1 tbsp - Stainless Steel	Crestware	21D738	1
Scrapers			
5¾" x 3¾", Plastic	Crestware	16W514	12
6" x 3", Plastic Handle	Crestware	44F704	1
Pom Tongs			
6 ½ in"L, Plastic Beige Handle	Crestware	45GJ74	1
6 ½ in"L, Plastic Black Handle	Crestware	45GJ75	1
6 ½ in"L, Plastic Clear Handle	Crestware	45GJ76	1
9 in"L, Plastic Beige Handle	Crestware	45GJ77	1
9 in"L, Plastic Black Handle	Crestware	45GJ78	1
9 in"L, Plastic Clear Handle	Crestware	45GJ79	1
12 in"L, Plastic Beige Handle	Crestware	45GJ71	1
12 in"L, Plastic Black Handle	Crestware	45GJ72	1
12 in"L, Plastic Clear Handle	Crestware	45GJ73	1
Tongs			
6 ¾ in"L, Stainless Steel Handle	Crestware	45GK99	1
9 in"L, Stainless Steel Handle	Crestware	45GL01	1
10 in"L, Stainless Steel Black Handle	Crestware	45GH23	1
10 in"L, Stainless Steel Blue Handle	Crestware	45GH24	1
10 in"L, Stainless Steel Green Handle	Crestware	45GH25	1
10 in"L, Stainless Steel Red Handle	Crestware	45GH26	1
10 in"L, Stainless Steel Yellow Handle	Crestware	45GH27	1
12 in"L, Stainless Steel Black Handle	Crestware	45GH28	1
12 in"L, Stainless Steel Blue Handle	Crestware	45GH29	1
12 in"L, Stainless Steel Green Handle	Crestware	45GH30	1
12 in"L, Stainless Steel Red Handle	Crestware	45GH31	1
12 in"L, Stainless Steel Yellow Handle	Crestware	45GH32	1
Utility Tongs			
7 in"L, Stainless Steel	Vollrath	4KJU4	1
9 ½ in"L, Stainless Steel	Vollrath	4KJU5	1
9 ½ in"L, Black Handle - Heavy Gauge with Nylon End	Vollrath	4KJU1	1
9 ½ in" L - Heavy Gauge With Nylon End	Vollrath	4KJT7	1
12 in"L, Stainless Steel	Vollrath	4KJU6	1
12 in" L - Heavy Gauge	Vollrath	4KJU2	1
16 in"L, Stainless Steel	Vollrath	4KJU7	1
16 in" L - Heavy Gauge	Vollrath	4KJU3	1
French Whips - Stainless Steel Handle			
10 in L	Crestware	44F695	1
12 in L	Crestware	44F696	1
14 in L	Crestware	44F697	1
16 in L	Crestware	44F698	1
18 in L	Crestware	44F699	1
24 in L	Crestware	44F701	1
French Whips - Aqua Handle			
10" L	Vollrath	4KJJ1	1
12" L	Vollrath	4KJJ2	1
14" L	Vollrath	4KJJ3	1
16" L	Vollrath	4KJJ4	1
18" L	Vollrath	4KJJ5	1
24" L	Vollrath	4KJJ8	1
Piano Whips - Purple Handle			
10" L	Vollrath	4KJJ9	1
12" L	Vollrath	4KJK1	1
14" L	Vollrath	4KJK2	1
16" L	Vollrath	4KJK3	1
18" L	Vollrath	4KJK4	1
Piano Whips - Stainless Steel Handle			
8 in L	Crestware	44F725	1
10 in L	Crestware	44F720	1
12 in L	Crestware	44F721	1
14 in L	Crestware	44F722	1
16 in L	Crestware	44F723	1
18 in L	Crestware	44F724	1
Squeeze Dishers			
Size 100 Cap., 7 ⅛ inL, Stainless Steel	Crestware	45GH67	1
Size 20 Cap., 8 ¾ inL, Yellow	Vollrath	44X026	1
Size 70 Cap., 10 inL, Stainless Steel	Crestware	45GH76	1
Size 60 Cap., 10 inL, Stainless Steel	Crestware	45GH75	1
Size 50 Cap., 10 inL, Stainless Steel	Crestware	45GH74	1
Size 40 Cap., 10 inL, Stainless Steel	Crestware	45GH73	1
Size 30 Cap., 10 inL, Stainless Steel	Crestware	45GH72	1
Size 24 Cap., 10 inL, Stainless Steel	Crestware	45GH71	1
Size 20 Cap., 10 inL, Stainless Steel	Crestware	45GH70	1
Size 16 Cap., 10 inL, Stainless Steel	Crestware	45GH69	1
Size 12 Cap., 10 inL, Stainless Steel	Crestware	45GH68	1
Size 10 Cap., 10 inL, Stainless Steel	Crestware	45GH66	1
Size 8 Cap., 10 inL, Stainless Steel	Crestware	45GH65	1
Dishers			
Size 100 Cap., 7 ½ inL, Orange	Vollrath	44X034	1
Size 70 Cap., 7 ¾ inL, Plum	Vollrath	44X033	1
Size 60 Cap., 7 ¾ inL, Pink	Vollrath	44X032	1
Size 50 Cap., 7 ⅞ inL, Terracotta	Vollrath	44X031	1
Size 40 Cap., 7 ⅞ inL, Orchid	Vollrath	44X030	1
Size 40 Cap., 8 inL, Purple	Crestware	45GH55	1
Size 40 Cap., 8 5⁄16 inL, Orchid	Vollrath	4NDX9	1
Size 40 Cap., 12 inL, Purple	Crestware	45GH64	1
Size 36 Cap., 8 ⅛ inL, Brown	Vollrath	44X029	1
Size 30 Cap., 8 inL, Black	Crestware	45GH54	1
Size 30 Cap., 8 ⅛ inL, Black	Vollrath	44X028	1
Size 30 Cap., 8 ¼ inL, Black	Crestware	45GH63	1
Size 30 Cap., 8 ½ inL, Black	Vollrath	4NDX8	1
Size 24 Cap., 8 ½ inL, Red	Vollrath	44X027	1
Size 24 Cap., 8 ⅜ inL, Red	Crestware	45GH53	1
Size 24 Cap., 8 ⅝ inL, Red	Vollrath	4NDX7	1
Size 24 Cap., 8 ¾ inL, Red	Crestware	45GH62	1
Size 20 Cap., 8 ¾ inL, Yellow	Crestware	45GH61	1
Size 20 Cap., 8 ¾ inL, Yellow	Vollrath	4NDX6	1
Size 20 Cap., 9 inL, Yellow	Crestware	45GH52	1
Size 16 Cap., 9 inL, Blue	Crestware	45GH51	1
Size 16 Cap., 8 ¾ inL, Blue	Crestware	45GH60	1
Size 16 Cap., 8 ⅞ inL, Blue	Vollrath	44X025	1
Size 16 Cap., 9 inL, Dark Blue	Vollrath	4NDX5	1
Size 14 Cap., 9 inL, Sky Blue	Vollrath	44X024	1
Size 12 Cap., 8 13⁄16 inL, Green	Crestware	45GH50	1
Size 12 Cap., 9 ¼ inL, Green	Crestware	45GH59	1
Size 12 Cap., 9 ⅛ inL, Green	Vollrath	44X023	1
Size 10 Cap., 9 inL, Ivory	Crestware	45GH49	1
Size 12 Cap., 9 ⅞ inL, Green	Vollrath	4NDX4	1
Size 10 Cap., 9 ¼ inL, Ivory	Crestware	45GH58	1
Size 10 Cap., 9 ¼ inL, Ivory	Vollrath	44X022	1
Size 10 Cap., 9 ⅜ inL, Ivory	Vollrath	4NDX3	1
Size 8 Cap., 9 inL, Gray	Crestware	45GH48	1
Size 8 Cap., 9 ¼ inL, Gray	Crestware	45GH57	1
Size 8 Cap., 9 ¼ inL, Gray	Vollrath	44X021	1
Size 6 Cap., 9 ¼ inL, White	Crestware	45GH56	1
Size 8 Cap., 9 ½ inL, Gray	Vollrath	4NDX2	1
Size 6 Cap., 9 ⅝ inL, White	Vollrath	44X020	1
Size 6 Cap., 9 ⅞ inL, White	Vollrath	4NDX1	1
Size 6 Cap., 11 ½ inL, White	Crestware	45GH47	1
High Temperature Spatulas			
Red Handle Color 10" L	Vollrath	4NCJ5	1
Red Handle Color 10 ½ in L	Crestware	44F705	1
Red Handle Color 13½" L	Vollrath	4NCJ6	1
White/Red Handle Color 14 in L	Crestware	44F710	1
White/Red Handle Color 16 ¼ in L	Crestware	44F713	1
Red Handle Color 16½" L	Vollrath	4NCJ7	1
High Temperature Spoon Spatulas			
White/Red Handle Color 7 in L	Crestware	44F706	1
White/Red Handle Color 10 in L	Crestware	44F711	1
Red Handle Color 10" L	Vollrath	4NCJ8	1
White/Red Handle Color 12 in L	Crestware	44F714	1
Red Handle Color 13½" L	Vollrath	4NCJ9	1
Red Handle Color 16½" L	Vollrath	4NCK1	1
Spatulas			
White Handle Color 9 ½ in L	Crestware	44F718	12
White Handle Color 9⅝" L	Vollrath	4NCK2	1
White Handle Color 13⅝" L	Vollrath	4NCK3	1
White Handle Color 14 in L	Crestware	44F708	12
White Handle Color 16 ½ in L	Crestware	44F716	12
White Handle Color 16⅝" L	Vollrath	4NCK4	1
Spoon Spatulas			
White Handle Color 6 ½ in L	Crestware	44F719	12
White Handle Color 9 ½ in L	Crestware	44F709	12
White Handle Color 9½" L	Vollrath	4NCK5	1
White Handle Color 11 ½ in L	Crestware	44F717	12
White Handle Color 13½" L	Vollrath	4NCK6	1
White Handle Color 16½" L	Vollrath	4NCK7	1
Spoons			
Basting Spoon 11 ½ inL	Crestware	45GK35	1
Basting Spoon 13 inL	Crestware	45GK36	1
Basting Spoon 15 inL	Crestware	45GK37	1
Basting Spoon 21 inL	Crestware	45GK38	1
Perforated Basting Spoon 11 ¼ inL	Crestware	45GK64	1
Perforated Basting Spoon 13 inL	Crestware	45GK65	1
Perforated Basting Spoon 15 inL	Crestware	45GK66	1

Scan. Order. Done.
Details on page A1.

3NZN2

3NZH4

3NZN5

45RM74

Scales TAYLOR.

Mechanical—Rotating dial allows container weight deduction and ingredient measuring. Removable stainless steel platform and shatter-proof lens protect dial, except plastic model 3NZN2. 3NZN2 includes dish-washer safe bowl and lid and weighs in ¼ oz. and 5g increments.

Digital—LCD readout with tare and auto/off features. Overload and low battery indicators. 3NZG9 and 3NZH1 include AC adapter or operates on one 9V battery. All others run on batteries only.

Cap.	Weighing Surface D	Weighing Surface W	Overall H	Overall W	Overall L	Standards	Mfr. Model	Item No.
Mechanical Scales								
1 lb, 500 g	3 in	4 ¼ in	3 ⅛ in	3 ¾ in	3 ¼ in	—	37204014T	**3NZN2**
900 g, 32 oz	6 in	5 ¼ in	7 ¼ in	7 ½ in	7 in	NSF	TS32F	**3NZH2**
22 lb, 10 kg	1 in	9 ¾ in	6 ¾ in	9 ¾ in	6 ¾ in	—	38804016T	**3NZN6**
11 kg, 25 lb	6 in	5 ¼ in	7 ¼ in	7 ½ in	7 in	NSF	TS25KL	**3NZH3**
50 lb	5 ¼ in	6 in	7 ¼ in	7 ½ in	7 in	NSF	TS50	**3NZH4**
50 lb	8 ¾ in	8 ¾ in	10 ⅝ in	8 ¾ in	10 ½ in	NSF	THD50	**14F322**
Digital Scales								
2 lb	5 ⅜ in	5 ⅜ in	1 ⅜ in	6 in	6 ¾ in	NSF	TE Series	**3NZG9**
8 lb, 4 kg	6 in	6 in	2 in	6 in	7 ⅜ in	—	3800N	**3NZN5**
10 lb, 5 kg	5 ⅜ in	5 ⅜ in	2 ¾ in	7 ⅜ in	6 ¾ in	NSF	TE Series	**3NZH1**
22 lb	7 ⅛ in	7 ⅛ in	2 ¾ in	8 ½ in	12 ¼ in	NSF	TE22FT	**45RM74**

35HV40

35HV43

14F310

2DBD5

35HV28

Food Thermometers TAYLOR.

Description	Temp. Range (F)	Accuracy	Includes	Dial Size	Stem Length	NSF Certified	Mfr. Model	Item No.
Analog								
Candy Thermometer	100° to 380°F	±5°F	Pan Clip	2 in	6 in	Yes	3505	**35HV40**
	100° to 400°F	±5°F	Pan Clip	—	—	Yes	3510	**35HV43**
Chef Thermometer - Features Field Recalibratable	0° to 220°F	±2°F	Pocket Sheath	1 in	5 in	Yes	3512	**35HV44**
Deep Fry Thermometer	50° to 550°F	±10°F	Pan Clip	2 in	12 in	Yes	3522	**35HV50**
Meat Thermometer - Features USDA Guidelines	120° to 190°F	±2°F	—	2 in	4 in	Yes	3504	**35HV39**
Mechanical Food Service Thermometer Food Safety	0° to 220°F	±1%	Recall Tool	1 in	5 in	Yes	6072N	**3NZR8**
Mechanical Food Service Thermometer HACCP Food Safety	0° to 220°F	±1°C, ±2°F	Safe T Guard Sleeve	1 ¾ in	5 in	Yes	8018N	**14F307**
Pocket Test Chef Thermometer	50° to 550°F	±5°F	Pocket Sheath	1 in	5 in	Yes	3517	**35HV47**
LCD								
Digital Chef Thermometer	-40° to 302°F	±3.5°F	Pocket Sheath	—	5 in	Yes	3516	**35HV46**
Digital Food Service Thermometer	-40° to 176°F	±2°F	—	2 ¾ in	—	—	1445	**53DL84**
	-40° to 450°F	±1°C, ±2°F	LR44 Battery, Storage Sleeve Printed with Convenient Cooking Temperature Chart	—	5 in	—	9836	**14F308**
	-40° to 450°F	±1°F	(2) Lithium Batteries	—	3 ¾ in	—	9835	**23WF59**
	-40° to 450°F	±1.8°F, ±1°C	Lithium Battery	—	3 ¾ in	—	9877FDA	**23WF61**
	-40° to 450°F	—	1.5V Battery	1 ½ in	4 in	Yes	9842FDA	**3NZT1**
	-40° to 450°F	—	1.5V Battery	1 ½ in	3 ½ in	Yes	9847FDA	**3NZT2**
	-40° to 500°F	—	CR2032 Battery	2 in	4 ½ in	Yes	9878E	**3NZT4**
Digital Food Service Thermometer Candy, Deep Fryer, Jelly	-40° to 450°F	±1°C, ±2°F	Li-Ion Battery	—	9 in	—	983915	**14F310**
Digital Food Service Thermometer - Features Hold Function	-40° to 572°F	±2°F	(2) AAA Batteries	—	4 in	Yes	9867FDA	**14F309**
Digital Food Service Thermometer HACCP Food Safety	-40° to 450°F	±2°F	Lithium Battery	1 ½ in	3 in	Yes	9848FDA	**3NZT3**
	-40° to 450°F	±1 Over HACCP Range	9V Battery	—	—	Yes	9405	**14F318**
Digital Food Service Thermometer with Probe	32° to 392°F	—	AAA Battery, Instructions, Probe	—	—	—	1470	**2DBD5**
Digital Thermometer	32° to 392°F	±5°F	(2) AAA Batteries	—	—	Yes	3518N	**35HV48**
Digital Thermometer Coded Purple for Allergy	-40° to 302°F	±2°C	Pocket Sheath	—	5 in	Yes	9840PRN	**35HV28**
Pocket Test Thermometer	-40° to 450°F	±5°F	LR44 Lithium Battery, Pocket Sheath	—	4 in	Yes	3519	**35HV49**
Waterproof Thermometer	-40° to 500°F	±1°F	Pocket Sheath	—	5 in	Yes	9878EPR	**35HV29**

23WF60 14F312

14F311

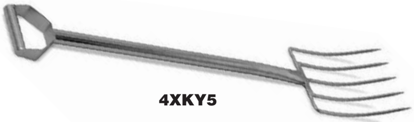
14F305

14F320

Appliance Thermometers TAYLOR.

Description	Temp. Range (F)	Accuracy	Includes	Dial Size	NSF Certified	Mfr. Model	Item No.
Analog							
Liquid Filled	100° to 600°F	±10°F	—	—	—	5921N	**14F306**
Liquid Filled Food Service Thermometer	-20° to 60°F	±1°F	—	—	NSF	5927	**23WF60**
	-20° to 80°F	±2°C, ±2°F	—	—	NSF	3509	**14F312**
Mechanical Food Service Thermometer	100° to 700°F	±10°C, ±10°F	Stainless Steel Coil for Lifting Thermometer with Spatula	2 in	—	6021	**14F311**
Mechanical Food Service Thermometer HACCP Food Safety	-30° to 70°F	±2°C, ±2°F	—	2 ¾ in	NSF	5981N	**3NZR5**
Oven Thermometer - Features Hanger	100° to 600°F	±5°F	—	2 in	NSF	3506	**35HV41**
Refrigerator/Freezer Thermometer	-20° to 80°F	±10°F (-20°F), ±2°F (32° to 40°F), ±3°F (0° to 32°F), ±4°F (-19° to 0°F), ±5°F (40° to 80°F)	—	3 in	NSF	5924	**444C64**
	-20° to 86°F	±2°F	—	—	NSF	3503	**35HV38**
LCD							
Digital Food Service Thermometer	-4° to 140°F	±0.1°C, ±0.1°F	Li-Ion Battery	—	—	1443	**14F305**
Infrared Thermometer	-67° to 428°	±0.1%	(1) Batteries, Case	—	No	9527	**35HV21**
	-49° to 752°F	±2°F/±1°C	Nylon Case, (2) AAA Batteries	—	—	9523	**14F320**

SANI-LAV



4XKY5

Stainless Steel Food Processing Tools

Electropolished finish enhances corrosion resistance and allows easier cleaning.

Shovels—D-handle shovels are specifically designed for use with food, drug, beverage, and chemical processing equipment. Can also be used as a snow shovel.

Forks—For meat, poultry, and other industries where cross-contamination is a concern.

Scoops—Pharma scoops are ideal for use in the pharmaceutical industry and other hygienic applications.

Pails—Heavy-duty, corrosion-resistant construction with no rolled edges or areas to collect dirt or bacteria.

Mixing Paddles—Durable paddles are ideal for moving bulk materials.

Dump Buggies—Heavy-duty construction with a reinforced bottom plate and solid top rim. Standard lifting fitting can be used with most standard loaders and dumpers. Include push handle, replaceable molded plastic wheels, stainless-steel spanners, nuts, and bolts. Use in food processing plants to move food products from one operation to another.

Description	Blade Length	Overall Length	Std.	Mfr. Model	Item No.
Shovels					
Square Point	11 in	39 in	NSF/ANSI Certified	267	**4XKZ4**
Scoop	12 ½ in	40 in	NSF/ANSI Certified	217	**4XKZ2**
	14 in	39 in	NSF/ANSI Certified	207	**4XKZ1**
	17 in	44 in	NSF/ANSI Certified	237	**53RJ93**
Chemical/Corrosion Resistant Scoop	15 ½ in	40 in	NSF/ANSI Certified	227	**4XKZ3**
Reinforced Scoop	9 in	39 in	NSF/ANSI Certified	267R	**49P112**
	12 ½ in	40 in	NSF/ANSI Certified	217R	**49P110**
	14 in	39 in	NSF/ANSI Certified	207R	**49P109**
	15 ½ in	40 in	NSF/ANSI Certified	227R	**49P111**
	17 in	44 in	NSF/ANSI Certified	237R	**53RJ94**

Description	Length of Tines	Width of Tines	Spacing	Handle Length	Std.	Mfr. Model	Item No.
Forks							
Fork, 4 Tines	8 ½ in	8 ¼ in	2 ¾ in	35 ½ in	FDA and USDA, NSF/ANSI Standard 2 - Food Equipment	2074	**4XKY8**
	12 in	8 ¼ in	2 ¾ in	32 in		2073	**4XKY7**
Fork, 5 Tines	8 ½ in	8 ¼ in	2 ¾ in	35 ½ in		2072	**4XKY6**
	12 in	8 ¼ in	2 ¾ in	32 in		2071	**4XKY5**
Reinforced Fork, 4 Tines	8 ½ in	8 ¼ in	2 ¾ in	35 ½ in		2074R	**49P119**
	12 in	8 ¼ in	2 ¾ in	32 in		2073R	**49P117**
Reinforced Fork, 5 Tines	8 ½ in	8 ¼ in	2 in	35 ½ in		2072R	**49P115**
	12 in	8 ¼ in	2 in	32 in		2071R	**49P113**
Super Reinforced Fork, 4 Tines	8 ½ in	8 ¼ in	2 ¾ in	35 ½ in		2074SR	**49P120**
	12 in	8 ¼ in	2 ¾ in	32 in		2073SR	**49P118**
Super Reinforced Fork, 5 Tines	8 ½ in	8 ¼ in	2 in	35 ½ in		2072SR	**49P116**
	12 in	8 ¼ in	2 in	32 in		2071SR	**49P114**
Drag Fork, 4 Tines	9 in	8 ¼ in	2 ¾ in	56 ½ in		2075	**4XKY9**
Reinforced Drag Fork, 4 Tines	9 in	8 ¼ in	2 ¾ in	56 ½ in		2075R	**49P121**
Super Reinforced Drag Fork, 4 Tines	9 in	8 ¼ in	2 ¾ in	56 ½ in		2075SR	**49P122**
Standard Cheese Fork, 5 Tines	10 ½ in	8 ¼ in	2 in	33 ½ in		2076	**49P123**

1YPC3

39F728

4ZDW3

Cap.	Handle Length	Std.	Mfr. Model	Item No.
Pharma Scoops				
8 oz oz.	5 in"	Certified NSF Standard 2 - Food Equipment	43RD	**39F724**
16 oz oz.	5 in"	Certified NSF Standard 2 - Food Equipment	44RD	**39F725**
	24 in"	—	44RD24	**53RK03**
32 oz oz.	5 in"	Certified NSF Standard 2 - Food Equipment	40RD	**39F721**
	5 in"	—	40RB	**53RK04**
50 oz oz.	5 in"	Certified NSF Standard 2 - Food Equipment	41RD	**39F722**
	5 in"	Certified NSF Standard 2 - Food Equipment	42SQ	**39F723**
	5 in"	—	41RB	**53RK05**
64 oz oz.	24 in"	—	400424	**53RK01**
	5 in"	Certified NSF Standard 2 - Food Equipment	45RD	**39F726**
	5 in"	—	45RB	**53RK06**
Scoops				
8 oz oz.	4 in"	Certified NSF Standard 2 - Food Equipment	3997	**1YPC3**
16 oz oz.	4 in"	Certified NSF Standard 2 - Food Equipment	4002	**1YPC4**
32 oz oz.	4 in"	Certified NSF Standard 2 - Food Equipment	4003	**1YPC5**
	24 in"	—	400324	**53RJ99**
64 oz oz.	4 in"	Certified NSF Standard 2 - Food Equipment	4004	**1YPC6**
32 oz oz.	24 in"	—	400424	**53RK02**
96 oz oz.	4 ½ in"	Certified NSF Standard 2 - Food Equipment	4005	**1YPC7**
128 oz oz.	4 ½ in"	Certified NSF Standard 2 - Food Equipment	3998	**1YPC8**
160 oz oz.	5 in"	Certified NSF Standard 2 - Food Equipment	3999	**1YPC9**
Pails				
13 qt Qt.	—	—	P13	**39F727**
16 qt Qt.	—	—	P16	**39F729**
Pails w/Bottom Handle				
13 qt Qt.	—	—	P13H	**39F728**
16 qt Qt.	—	—	P16H	**39F730**

Description	Std.	Mfr. Model	Item No.
Mixing Paddles			
36"H x 4 ¾ in"W x 36 in"L	—	2078	**39F731**
42"H x 4¾"W x 9¾"L		2079	**39F732**
48"H x 4¾"W x 9¾"L		2080	**39F733**
60"H x 4¾"W x 9¾"L		2081	**39F734**
36 inH x 4 ¾ in"W x 36 inL, Perforated		2078P	**53RJ95**
42 inH x 4 ¾ in"W x 42 inL, Perforated		2079P	**53RJ96**
48 inH x 4 ¾ in"W x 48 inL, Perforated		2080P	**53RJ97**
60 inH x 4 ¾ in"W x 60 inL, Perforated		2081P	**53RJ98**
Dump Buggies			
V-Edge 28 inH x 29 ½ inW x 27 ½ inL	USDA and FDA Approved, Certified NSF/ANSI STANDARD 2 FOOD EQUIPMENT	400	**4ZDW3**
V-Edge 38 inH x 29 ½ inW x 27 ½ inL		600	**4ZDW4**
Stainless Steel Dough Hoe			
60 in L	NSF/ANSI Certified	2077	**49P124**
Nesting Tray			
26 inL x 18 inW x 1 inD	NSF 2 Food Equipment	202	**49P125**
Sheet Pan			
13 in W x 18 in L x 1 in D	NSF 2 Food Equipment	202-1	**31TT35**

Black

Blue

Gray

White

Yellow

CARLISLE

Color-Coded Sanitary Totes

- NSF Certified
- 15" x 20"

Unique reinforced rims reduce bending, bowing and breaking. Comfort Curve handles for sure comfortable grip. Contour lid design allows easy box-on-box stacking. Available in 5 colors for HACCP zone use.

▶CHOOSE: Color	Item No.
Tote Box - 5 in Deep	
Black, Blue, Gray, White, Yellow	**J4644**
Tote Box - 7 in Deep	
Black, Blue, Gray, White, Yellow	**J4645**
Tote Lids - 1 in Deep	
Black, Blue, Gray, White, Yellow	**J4646**

VOLLRATH

Stainless Steel Pails

Pails come with top bail handle and are suitable for a variety of applications.

4NEA4

Cap.	Item No.
Steam Table Pans w/Side Carry Handles	
12 qt	**4NCT1**
24 qt	**4NCT2**
Dairy Pails w/out Side-Tilting Handle	
13 qt.	**4NEA2**
16 qt.	**4NEA3**
Tapered Dairy Pails w/out Side-Tilting Handle	
12½ qt.	**4NDZ8**
14¾ qt.	**4NDZ9**
23 qt.	**4NEA1**
Dairy Pail with Side-Tilting Handle	
14¾ qt.	**4NEA4**
Covered Ice Cream Pail	
20 qt.	**4NDZ6**
Covers	
Hook-On Pail Cover for 4NDZ8, 4NDZ9, 4NEA1 and 4NEA4	**4NEA5**
Additional Cover for 5NDZ6	**4NDZ7**

Shovel
E9549

Hand Scoop
F8440

Food Hoe
E4127

Mixing Paddle
F9104

Floor Scraper
F8431

Bench Scraper
F8460

High Temp Scraper
38Y586

Hygienic Rake
3LFF6

Hopper Tub
4LMJ3

Color-Coded Hygienic Food Processing Tools

- Chemical- and corrosion-resistant

Conveniently designed to use within a color-coded system. Hygienic design, cleaning efficiency, and color-coding feature helps reduce the risk of cross contamination and improve productivity.

Description	▶CHOOSE: Color	Std.	Brand	Item No.
Hygienic Plastic Shovels, 1-Pc. Design				
37 ½ in x 14 in x 11 in	Pink, Orange, Purple, Black, Green, Blue, Red, White, Yellow	—	Remco	**F9120**
38" x 14" x 11"	Brown, Lime Green, Gray	FDA Compliant	Remco	**F9120**
42 in x 17 in x 14 in	Purple, Green, Blue, Red, White, Yellow, Black, Orange	—	Remco	**E9549**
42" x 17 in x 14 in	Pink	—	Remco	**E9549**
42" x 17" x 14"	Brown, Lime Green, Gray	FDA Compliant	Remco	**E9549**
37 ½ in x 14" x 11" Metal Detectable	Blue, Green, Gray, Red	—	Remco	**E4433**
42 in x 17" x 14" Metal Detectable	Blue, Green, Red, Gray	—	Remco	**E4434**
D-Handle, 11" Blade	Green, Blue, Red, Yellow, White	—	Vikan	**H1590**
D-Handle, 12½" Blade	Green, Blue, Red, Yellow, White	—	Vikan	**H1589**
Dual Grips, 14" Blade	Green, Blue, Red, White, Yellow	—	Remco	**H1594**
Sieve Shovel, 45 in x 12 ½ in x 13 ½ in	White	—	Vikan	**31CF42**
Hand Scoops				
Small Hand Scoop	Pink, Green, Blue, Red, White, Yellow, Orange, Purple	—	Vikan	**J5331**
Mini Hand Scoop, 16 oz	Blue, Green, Red, White, Yellow, Pink, Orange, Purple, Brown, Lime Green, Gray	—	Remco	**G3975**
Small Hand Scoop, 32 oz	Green, Blue, Red, White, Yellow, Pink, Orange, Purple, Brown, Lime Green, Gray	—	Remco	**F8523**
Mega Scoop Dipper, 128 oz	Green, Blue, Red, White, Yellow, Orange	—	Remco	**F8440**
Mega Scoop	Orange, Green, Red, White, Yellow, Blue	—	Remco	**E4131**
Small Scoop, Metal Detectable	Red, Gray, Green, Blue	—	Remco	**E4439**
Large Scoop, Metal Detectable	Green, Blue, Gray, Red	—	Remco	**E4440**
Food Hoe				
11" x 8"	Blue, Green, Red, White, Yellow	—	Remco	**E4127**
Mixing Paddles & Paddle Scrapers				
With Holes, 40" x 13"	Blue, Red, Yellow, Green, White	—	Remco	**E9385**
With Holes, 52 in x 13 in	Green, Blue, Red, White, Yellow	—	Remco	**F9104**
Without Holes, 40" x 13"	White, Blue, Green, Yellow, Red	—	Remco	**E9386**
Without Holes, 52 in x 9 in"	Green, Blue, Red, White, Yellow, Pink, Orange, Purple	—	Remco	**F9103**
Without Holes, 52" x 13"	Red, Green, Gray, Blue	—	Remco	**E4436**
Stiff, Without Holes, 4½" x 6"	Green, Blue, Red, Yellow, White	—	Vikan	**H1595**
Flexible, Without Holes, 4½" x 6"	Green, Blue, Red, Yellow, White	—	Vikan	**H1596**
Floor Scrapers				
Nylon Blade, 7 in x 10 ¼ in	Green, Blue, Red, White, Yellow, Black	—	Remco	**F8431**
Stainless Steel Blade, 7 in x 10 ¼ in	Green, Blue, Red, White, Yellow, Black	—	Vikan	**F8432**
Hand Scrapers				
Stainless Steel Hand Scraper, 8 ⅞ in x 1 ½ in	Brown, Lime Green, Gray, Pink, Green, Blue, Red, White, Yellow, Orange, Purple, Black	FDA Compliant	Remco	**J5452**
Stainless Steel Hand Scraper, 8 ⅞ in x 3 in	Brown, Lime Green, Gray, Pink, Green, Blue, Red, White, Yellow, Orange, Purple, Black	FDA Compliant	Remco	**J5453**
Large Hand Scraper, 9 ⅕ in x 4 ¼ in	Purple, Pink, Green, Blue, Red, White, Yellow, Black, Orange	—	Remco	**F8986**
	Brown, Lime Green, Gray	FDA Compliant	Remco	**F8986**
Small Hand Scraper, 8 in x 3 in	Pink	—	Remco	**F9102**
Small Hand Scraper, 7 ⅘ in x 3 in	Orange, Purple, Green, Blue, Red, White, Yellow, Black	—	Remco	**F9102**
	Brown, Gray	FDA Compliant	Remco	**F9102**
Small Hand Scraper, 8 in x 3 in	Lime Green	FDA Compliant	Remco	**F9102**
8 in x 3 in Metal Detectable	Gray, Green, Blue, Red	—	Remco	**E4437**
9 ¾ in x 4.4" Metal Detectable	Green, Blue, Red, Gray	—	Remco	**E4438**
Mini Bench Scraper 5½" x 3½"	Green, Blue, Red, White, Yellow	—	Remco	**H1593**
Mini Bench Scraper 5¼" x 3 ⅜ in	Pink, Orange, Purple	—	Remco	**H1593**
Mini Bench Scraper 5 ¼ in x 3 ⅜ in	Brown, Lime Green, Gray	FDA Compliant	Remco	**H1593**
Mini Bench Scraper 5½" x 3½" Metal Detectable	Green, Red, Blue, Gray	—	Remco	**G3976**
Bench Scraper 8½" x 5 ¼ in	Purple, Green, Blue, Red, White, Yellow, Pink, Orange	—	Remco	**F8460**
Bench Scraper 8 ½ in x 5 ¼ in	Brown, Lime Green, Gray	FDA Compliant	Remco	**F8460**
8½" x 5" Metal Detectable	Green, Red, Blue, Gray	—	Remco	**G3977**
High Temp Scraper Up to 465°F, 4 7/16" x 9¾"	Blue	—	Remco	**38Y586**
Fork and Rake				
Hygienic Fork 10½" x 10½" x 49"	White	FDA, USDA	Vikan	**4EY29**
Hygienic Rake 7½" x 8"	White	—	Vikan	**3LFF6**
Tubs and Undercarriages				
Lid for Large-Volume Color-Coded Modular Tub Carts - Polyethylene 4 ¼ in x 32 in x 56 in	Green, Blue, Red, Yellow	FDA and USDA Approved	Remco	**K2490**
	White	FDA and USDA Approved	—	**K2490**
Lid for Large-Volume Color-Coded Modular Tub Carts - Polyethylene 1 ¾ in x 27 in x 47 in	Green, Blue, Red, Yellow, White	FDA and USDA Approved	Remco	**K2491**
Angled Dump Tub - Polyethylene 21 ¾ in x 32 in x 54 ½ in	White	FDA and USDA Approved	Remco	**4LMJ3**
Transport Storage Tub - Polyethylene 21 ¾ in x 32 in x 54 ½ in	White	FDA and USDA Approved	Remco	**4LMJ8**
Stacking and Nesting Tote Tub - Plastic	White	USDA	Remco	**4LMK3**
Lid for Tote Tub - Plastic	White	FDA Compliant	Remco	**4LMK4**
Pallet for Tote Tub - Plastic	White	—	Remco	**4LMK5**
Dumping-Style Hopper Undercarriage - Steel 19 ⅛ in x 27 ¼ in x 41 ⅛ in	—	—	Remco	**4LMJ5**
Low Hopper Undercarriage - Steel 8 ⅞ in x 26 ⅞ in x 40 ¼ in	—	—	Remco	**4LMJ7**
Dumping-Style Hopper Undercarriage - Stainless Steel 19 ⅛ in x 27 ¼ in x 41 ⅛ in	—	—	Remco	**4LMJ6**
Low Hopper Undercarriage - Steel 9 ⅜ in x 21 ⅝ in x 42 ½ in	—	—	Remco	**4LMK2**

31EV89

31EW23

Popcorn Makers and Wagons

Popcorn Makers have enclosed heat lamp and heated corn deck that keeps popcorn warm. Auto shut off safety features included with Goldrush and T-3000 models. Eye level rocker control switches and illuminated kettle heat switch makes machine easy to operate. The 1-pc., nickel plated all steel popping kettle features a clean-in-place design. 31EW23 includes 32 oz. popper and caramelizer mounted on welded stainless steel table; ideal for caramel corn and cheese corn production.

Description	Cap.	H	W	Item No.
Popcorn Makers				
Trilogy	8/12/16 oz	34 ½ in	24 in	**31EV89**
T3000	12 oz	34 ½ in	24 in	**31EV92**
Popcorn Coaters				
Coater Mixer Tumbler	4.5 gal	30 in	26 in	**31EW22**
Popcorn Wagon Bases				
Goldrush Knockdown Wagon for 6 oz. Poppers	—	31 ¼ in	40 ½ in	**31EV93**
T3000 Assembled Wagon for 8/12/16 oz. Poppers	—	32 in	44 ½ in	**31EV95**
Gourmet Popping Plant				
Twin Gourmet Popping Plant	32 oz	62 ½ in	83 ½ in	**31EW23**

31EV99

31EW01

Cotton Candy Machines, Wagon, and Cabinet

Description	Cap.	Bowl Size	H	W	Item No.
Ringmaster Cotton Candy Machines					
Ringmaster Lite	8 to 10 lb	26 in	17 ¼ in	13 in	**31EV99**
Ringmaster 5	10 to 12 lb	26 in	17 ¼ in	13 ½ in	**31EV97**
Ringmaster 7	15 to 18 lb	26 in	17 ½ in	13 ½ in	**31EV98**
Ringmaster 2-Wheel Wagon, and Cabinet					
Cotton Candy Wagon	—	—	30 in	40 in	**31EW01**
Cotton Candy Cabinet	75 lb	—	71 ½ in	27 ½ in	**31EW02**
Cotton Candy Bowl	—	—	9 in	26 in	**31EW03**

Popcorn Bags

- Paper material

45KK04

31EW35 to 31EW32

Description	Size	Brand	Item No.	Pkg. Qty.
Support Our Troops Bags-Medium	2½ oz	Cretors	**45KK04**	500
Popcorn Bag-Small	1 oz, 2 in Gusset, 3½ in W, 8 in L	Fischer	**462D29**	1000
Eco-Popcorn Bags-Small	1½ oz	Cretors	**31EW32**	1000
Eco-Popcorn Bags-Medium	2½ oz	Cretors	**31EW33**	500
Eco-Popcorn Bags-Large	4 oz	Cretors	**31EW34**	500
Eco-Popcorn Bags-XL	5 oz	Cretors	**31EW35**	500

31EW09

31EW10

31EW11

Hot Dog Grills

- 120V

Broiler heats frozen hot dogs in 20 minutes and warms up to 48 buns. Grill provides complete rotation and included grease trap allows cooking of sausages. Feature stainless steel construction and digital temperature controls.

Cap.	Amps	Watts	H	D	W	Item No.
Hot Dog Broiler						
Up to 36 Hot Dogs, 48 Buns	10 A	1,200 W	17	25	35 ½	**31EW09**
Slanted Hot Dog Roller Grill						
Up to 24 Hot Dogs	8.3 A	1,000 W	8	22	22	**31EW10**
Up to 36 Hot Dogs	15.4 A	1,850 W	9 ½	24	35 ½	**31EW11**

Cotton Candy Floss 31EW26

Popcorn Portion Packs 31EW24

Popcorn Portion Packs 45KK03

Caramel Mix 31EW36

Concession Ingredients

Ready-to-use, great tasting ingredients make it simple to use for any concession areas or food service operations. Convenient popcorn portion packs are premeasured with corn, oil, and salt.

Description	Size	Item No.	Pkg. Qty.
Floss Sugar For Use With Cotton Candy Machines			
Pink Vanilla Cotton Candy Floss	3¼ lb	**31EW25**	6
Blue Raspberry Cotton Candy Floss	3¼ lb	**31EW26**	6
Cherry Cotton Candy Floss	3¼ lb	**31EW27**	6
Grape Cotton Candy Floss	3¼ lb	**31EW28**	6
Green Apple Cotton Candy Floss	3¼ lb	**31EW29**	6
For Use With Popcorn Machines, Gourmet Cookers, and Tumblers			
Popcorn Portion Packs	8 oz	**31EW24**	36
Popcorn Portion Packs, for 12, 14 or 16 oz. Capacity Machines	16 oz	**45KK03**	24
Caramel Mix	2⅝ lb	**31EW36**	12
Neutral Glaze Mix	42 oz	**31EW37**	12
Non-Stick Lethicin	1 gal	**31EW38**	4

5YGG8

12H016

5YGG9

CROWN VERITY

Professional Grills

Note: Hoods for grills are sold separately, unless noted in Description (see below).

CHARCOAL GRILL

Features removable legs. Grilling surface adjusts to 3 heights. 4" swivel casters, 2 are locking.

GAS GRILLS

Constructed of rust-resistant 304 stainless steel and have a lifetime warranty on the body and cooking grids. Burners have a 10-year warranty. Water pans prevent grease fires from occurring and ease cleaning. Grills include two 5" total-lock swivel casters and two ABS plastic wheels.

Description	BtuH	Burners	Cooking Surface Dim.	Propane Tank Cap.	Includes	Overall L	Overall D	Overall H	Item No.
Charcoal Grill	—	—	60 x 24 in	—	Adjustable Grilling Surface, Removable Legs	72 in	24 in	31 in	**5YGG8**
Gas Grill w/Hood	64,500 BtuH	4	28 x 21 in	One 20-lb Tank	End Shelf, Grill, Hood, Outdoor Cover, Warming Rack	46 ½ in	28 in	52 in	**12H016**
Gas Grill	64,500 BtuH	4	28 x 21 in	One 20-lb Tank	Built-In Tank Holders, Hoods are Not Included	38 in	28 in	36 in	**5YGH5**
Gas Grill	79,500 BtuH	5	34 x 21 in	One 20-lb Tank	Built-In Tank Holders, Hoods are Not Included	44 in	28 in	36 in	**5YGH4**
Gas Grill w/Hood	79,500 BtuH	5	34 x 21 in	One 20-lb Tank	End Shelf, Grill, Hood, Outdoor Cover, Warming Rack	52 ½ in	28 in	52 in	**12H018**
Gas Grill	99,000 BtuH	6	46 x 21 in	Two 20-lb Tanks	Built-In Tank Holders, Hoods are Not Included	56 in	28 in	36 in	**5YGH3**
Gas Grill	99,000 BtuH	6	46 x 21 in	40 lb Propane Tank or Larger	Grill Only	56 in	28 in	36 in	**12H033**
Gas Grill	129,000 BtuH	8	58 x 21 in	Two 20-lb Tanks	Built-In Tank Holders, Hoods are Not Included	69 in	28 in	36 in	**5YGG9**
Gas Grill	129,000 BtuH	8	58 x 21 in	Two 30-lb Tanks	Hoods are Not Included	69 in	28 in	36 in	**5YGH0**
Gas Grill	159,000 BtuH	10	70 x 21 in	Two 20-lb Tanks	Built-In Tank Holders, Hoods are Not Included	81 in	28 in	36 in	**5YGH1**

Grill Cover

Roll Dome Hood

End Shelf

CROWN VERITY

Grill Covers and Hoods

Description	Material	For Use With	Item No.
Grill Covers			
32 inW x 24 inD x 16 inH	Vinyl	12H001	**12H047**
38 inW x 24 inD x 16 inH	Vinyl	12H002	**12H049**
40 inW x 30 inD x 50 inH	Vinyl	30 in Grill Models with Roll Dome	**12H046**
46 inW x 30 inD x 50 inH	Vinyl	30 in Grill Models with Roll Dome	**12H048**
50 inW x 24 inD x 16 inH	Vinyl	12H003	**12H051**
56 inW x 30 inD x 50 inH	Vinyl	30 in Grill Models with Roll Dome	**12H050**
72 inW x 30 inD x 50 inH	Vinyl	30 in Grill Models with Roll Dome	**12H052**
74 inW x 28 inD x 30 inH	Vinyl	5YGG8	**12H054**
84 inW x 30 inD x 50 inH	Vinyl	30 in Grill Models with Roll Dome	**12H053**
Hoods and Shelf			
30 in Roll Dome Hood	Stainless Steel	12H001, 12H016, 12H017, 12H020, 12H030, 12H034, 12H035, 5YGG9, 5YGH0, 5YGH5	**5YGH6**
36 in Roll Dome Hood	Stainless Steel	12H002, 12H018, 12H019, 12H021, 12H028, 5YGH1, 5YGH2, 5YGH4	**5YGH7**
48 in Roll Dome Hood	Stainless Steel	12H003, 12H032, 12H033, 5YGH3	**5YGH8**
Stainless Steel Removable End Shelf	Stainless Steel	5YGG9, 5YGH0, 5YGH1, 5YGH2, 5YGH3, 5YGH4, 5YGH5, 5YGJ0, 5YGJ1	**5YGJ2**

12A237

ultrasite A PLAYCORE Company

Pedestal Grills

Constructed of durable, rust-resistant, high-temperature, black powder-coat firebox. Feature inground-mount posts and 7-ga. base plates with 10-ga. side plates.

Type	Burners	Cooking Surface Dim.	L	D	H	Item No.
Adjustable	1	300 sq. in.	23 in	15 in	38 in	**12A237**
Cantilever	1	300 sq. in.	23 in	19 in	40 in	**12A238**
Bi-Level	2	1008 sq. in.	39 in	39 in	38 in	**12A241**
Double Cantilever	2	1064 sq. in.	33 in	44 in	40 in	**12A240**

12A244

ultrasite A PLAYCORE Company

Fire Rings

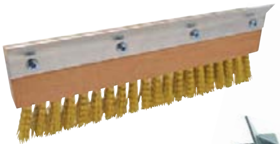
Each ring is a durable, rust-resistant, high-temperature, powder-coated steel firebox. 7-ga. outer wall has a 1" safety lip. Include staple anchors for a permanent inground mount. 12A244 is adjustable.

Item	Cooking Surface Dim.	L	D	H	Item No.
Fire Ring	285 sq. in.	32 in	30 in	16 in	**12A244**
Fire Ring	300 sq. in.	32 in	30 in	7 in	**12A242**
ADA Fire Ring	300 sq. in.	38 in	30 in	18 in	**12A243**

CARLISLE VOLLRATH

Grill and Oven Cleaning Tools

Will not absorb grease or odors.


14D303

4KDH9

6PVG3

Description	Brand	Item No.	Pkg. Qty.
10 in" Pizza Oven Brush with Scraper, Crimped Brass Bristles (Head Only)	Carlisle	**14D303**	12
20 in"L Wood Handle Scraper with Carbon Steel Bristles	Carlisle	**4KDH9**	12
21 ⅝ in"L Grill Tender Scraper with Splashguard	Vollrath	**6PVG3**	1

For ice machines, see pages 3002-3004.

FOLLETT ICE

Ice Chute
31MX29

Solenoid
31MW69

HOSHIZAKI

Grille
19XL28

Micro Switch
24EU51

Water Valve
24EU23

ICE-O-MATIC

Water Pump
30NW76

MANITOWOC ICE

Control Board
28ZL38

Dump Valve
20Z811

Ice Thickness Probe
20Z833

Toggle Switch
20Z826

USB Flash Drive
20Z821

SCOTSMAN

Electronic Control Kit
38Y215

Ice Thickness Sensor
38Y216

Water Sensor and Harness
38Y227

Ice Machine Replacement Parts

Genuine replacement and repair parts for ice machines. Don't see what you need? Find even more at Grainger.com.

Description	Mfr. Model	Item No.
Follett Ice		
Bottom Bearing	PI502738	**31MW66**
Control Board	PD502242	**31MW84**
Dispenser Chute Cover	PD502681	**31MW65**
Dispenser Chute Cover	PD502439	**31MX11**
Dispenser Switch	PD501318	**31MX02**
Dispenser Switch Lever	PD501714	**31MW96**
Drain Grill	01050277	**43EH11**
Drain Pan	00108829	**31MX01**
Drain Pan Bracket	00136077	**31MX22**
Drain System O-Ring	PB502022	**31MW71**
Fastener Plunger	PD502057	**31MW55**
Filter Cartridge	00130211	**31MW73**
Gear Box and Motor	00142034	**31MX68**
Gearmotor	PI502730	**31MX03**
Ice Chute	00981225	**31MX29**
IM Board	PI502331	**31MW74**
Inspection Door	PB502264	**31MW61**
Inspection Door	PB502237	**31MW54**
Quick Connect Filter	00130245	**31MW56**
Quick Release Pin	PD501949	**31MW85**
Sani Sponge Kit	00132068	**31MW67**
Sealed Sensor Assembly	00116533	**31MX45**
Sensor Lens	PD502690	**31MX17**
Smartgate	PB502363	**31MW72**
Solenoid	PD501961	**31MW69**
Solenoid Boot	PD502098	**31MX62**
Solenoid Valve	00130831	**31MW63**
Solenoid Water Valve	PD502243	**31MW76**
SS Sensor Kit	00122978	**31MW62**
Switch	PD502441	**31MW86**
Temperature Controller	00900084	**31MX48**
Thermostat	PI500514	**31MW58**
Thumb Screw	PD501100	**31MW75**
Top Bearing Assembly	PI502736	**31MX04**
Valve and Reservoir Float	PI500504	**31MW57**
Water Filter System	00130229	**31MX27**
Welded Grille	00108845	**31MW82**
Hoshizaki		
Door Switch	3A1826-01	**24ET41**
Drain	309246-01	**24ET14**
Drain Board	3A2145-01	**24ET42**
Float Switch	4A3624-01	**24EU61**
Grille	102936-04	**19XL28**
Micro Switch	4A2546-01	**24EU51**
Pump Assembly	PA0613	**24EV02**
Pump Motor	2U0106-01	**24ET13**
Pump Motor Assembly	S-0730	**24EV03**
Quick Connect Filter	H9655-11	**31XC11**
Shelf Clip	428957-01	**24ET78**
Tee	4A0177-01	**24EU12**
Thumb Screw	434168G01	**24ET86**
Truss Head Screw	7C32-0416	**24EU81**
Water Valve	4A2772-01	**24EU53**
Water Valve	4A0865-01	**24EU23**
Water Valve	3U0111-04	**24ET52**
Ice-O-Matic		
Cap Lug	9131026-02	**30NW81**
Fitting Drain	9091140-01	**30NW67**
Float Valve	9131111-01	**30NW72**
Gasket Bin Door	6081036-01	**35XA44**
Inlet Water Valve	1011337-28	**30NW88**
Limit Switch	9101124-02	**30NW69**
Low Pressure Service Kit	9041104-101A	**63RN28**
Pump Water 1550 Rpm 220V	ICE9161076-02	**35XD67**
Purge Valve, 120V	9041105-04	**30NW64**
Purge Valve, 120V	9041105-01	**30NW63**
Quick Connect Filter	IOMQ	**36RF14**
Relay, 2 Pole, 120V	9101084-01	**30NW68**
Relay, 2 Pole, 240V	9101084-02	**30NW87**
Splash Curtain	9051154-08	**30NW65**
Splash Curtain	9051154-07	**30NW91**
Thermostat	9041004-02	**30NW83**
Thermostat Bin Control	9041097-01	**30NW61**
Timer Module	9101148-01	**30NW70**
Water Distribution Tube Assembly	2041338-01	**30NW86**
Water Filter Cartridge	IOMWFRC	**30NW89**
Water Press Regulator	9041059-01	**30NW90**
Water Pump	9161076-01	**30NW76**
Water Pump	9161079-03	**30NW77**
Water Pump	1011337-31	**30NW82**
Manitowoc Ice		
Bin Door Assembly	7624493	**28ZL34**
Bin Door Assembly	7628503	**28ZL33**
Bin Door Assy	7602603	**28ZL09**
Bin Door Assy,S400/570	7628453	**28ZL30**
Bin Switch	23-0148-3	**20Z827**
Control Board	2006199	**28ZL31**
Control Board	7629073	**28ZL29**
Control Board	7627823	**28ZL38**
Door And Frame Assembly	040001716	**28ZK86**
Door And Frame Assembly	40001717	**28ZL03**
Dump Valve	000001768	**20Z812**
Dump Valve	000001767	**20Z811**
Fan Motor 115V/60Hz,When Repl	2412929	**28ZL20**
Fan Motor Kit, 208-230V	7626723	**28ZL28**
Ice Thickness Control	20-0802-9	**20Z825**
Ice Thickness Probe	76-2781-3	**20Z833**
Ice Thickness Probe	000008660	**20Z820**
Motor	020003650	**43EH64**
O-Ring,Package Of 6	5004649	**28ZJ38**
Relay	8505533	**43EH80**
Replacement Cartridge Shurflo	122T05	**33RP90**
Toggle Switch	23-0134-3	**20Z826**
USB Flash Drive	000009169	**20Z821**
Water Curtain	4304643	**28ZK69**
Water Curtain	4005233	**28ZK81**
Water Curtain	4012729	**28ZL06**
Water Curtain	4008513	**28ZK78**
Water Distribution Tube Assembly	7624983	**28ZK47**
Water Inlet Valve	9122	**20Z818**
Water Inlet Valve	000009123	**20Z817**
Water Level Probe	20-0654-9	**20Z822**
Water Pump	7623063	**28ZL24**
Water Pump,115/60/1	2008929	**28ZL11**
Nu-Calgon		
Ice Machine Sanitizer	4211-34	**45YY10**
Scotsman		
Bearing Replacement	02-4578-02	**28ZT61**
Bin Level Control	A37710-021	**28ZR52**
Breaker and Bearing	A34505-020	**28ZT59**
Cartridge	SSMRC1	**28ZR42**
Circuit Board	12-2843-21	**38Y230**
Clear1 Cleaner	19-0653-01	**28ZM41**
Dispensing Motor	12-2677-21	**28ZT47**
Door Gasket, 1 ft.	13-0595-00	**38Y217**
Electronic Control Kit	12-2838-24	**38Y215**
Gear Reducer and Motor	A33220-021	**38Y253**
Grill	02-2951-01	**38Y232**
Ice Chute	02-1995-01	**38Y238**
Ice Level Control	11-0540-21	**38Y212**
Ice Thickness Sensor	A39031-021	**38Y216**
Inlet Valve	12-1646-01	**38Y246**
Inlet Valve	12-1646-04	**28ZR21**
Motor	18-8850-01	**28ZR77**
Reducer, Less Motor	A33220-030	**28ZT64**
Replacement Cartridge Ssm	SSMRC6	**28ZT51**
Reservoir Valve	02-3266-02	**28ZP49**
Sensor Touch Free	12-2551-20	**28ZT16**
Sink	02-2944-20	**38Y241**
Spout	02-3944-01	**28ZM88**
Sump Level Sensor Assembly	11-0539-51	**38Y214**
Temperature Sensor	02-3410-21	**38Y220**
Touch Free Sensors	12-2495-21	**28ZT03**
Water Header Top	02-4065-01	**28ZM37**
Water Inlet Solenoid	12-2922-01	**38Y228**
Water Level Sensor	A39030-021	**38Y218**
Water Pump	12-2419-71	**28ZT24**
Water Pump	12-2919-21	**28ZT02**
Water Pump	12-2586-27	**38Y224**
Water Pump	12-2586-21	**38Y229**
Water Pump	12-2582-21	**38Y234**
Water Reservoir and Float	02-3266-01	**38Y243**
Water Seal	02-0929-23	**38Y223**
Water Sensor and Harness	A33101-022	**38Y227**
Water Solenoid Valve	12-2666-01	**38Y219**
Water Valve	12-2548-01	**38Y213**

Fuse, 6.3A
21VM61

Cooling Fan
21VY45

Gas Valve Knob
21WF49

Thermostat
21WF20

Blade
21WG23

Power Switch Harness Assembly
28ZY56

Food Service Replacement Parts

Original equipment manufacturer parts for counter top equipment, coffee makers, food preparation, fryers, ovens, slicers, ranges, refrigeration, freezers and more. Search for your replacement part on Grainger.com for the full product offering.

Item	Mfr. Model	Item No.
Coffee Maker		
BUNN		
Dish Warmer Assembly	41188.1000	**35DV82**
Flip Lid	38497.1000	**35DV08**
Flip Lid	38498.1000	**35DV94**
Limit Thermostat	29329.1000	**35DV53**
On/Off Switch	04067.0001	**35DV50**
On/Off Switch	12920.0000	**35DW28**
Probe Assembly Kit	39085.1001	**35DV36**
Probe Replacement Kit	29327.0001	**35DV87**
Tank Heater Kit	04236.1000	**35DV37**
Timer Kit	32400.0000	**35DU93**
Water Pitcher	04870.0000	**35DV19**
Combination Oven		
ALTO SHAAM		
Cleaner	CE-28892	**21VM32**
Drain Screen	DA-2943	**21VM44**
Filter Cartridge	FI-26356	**21VM59**
Fuse, 6.3A	FU-33452	**21VM61**
Insulation	IN-22364	**21VN07**
Lamp, 15W	LP-3686	**21VN28**
Light Bulb, 25W	LP-34206	**21VN27**
Odor Guard Filter	FI-25866	**21VM58**
Quick Connect Probe	PR-34298	**21VN53**
Temperature Gauge	GU-3273	**21VM89**
Temperature Gauge	GU-34197	**21VM91**
BLODGETT		
Axial Fan, 230V	23034	**21WC40**
Control, 120V	R5707	**21WE47**
Element Assembly	20319	**21WC01**
Halogen Bulb, 20W	D0128	**21WD96**
Spark Box Assembly	20348	**21WC04**
CLEVELAND		
Y-Strainer Chrome Plated	KE52702	**32ZE90**
Counter Top		
APW WYOTT		
Adjustable Leg, 4 in.	2A-8632100	**21VY62**
Complete Hot Food Well	55361	**21VU11**
Cooling Fan, 120V	2U-85286	**21VY45**
Drain Strainer Assembly	AS-56655	**21VU71**
Drawer Slide Nut ¼-20 Nylock	88893	**21VY89**
Fuse, 3A	AS-85601	**21VY47**
Indicator Light, Amber, 250V	2E-1515300	**21VP96**
Infinite Control 120V, 13A	2J-55564-EGO	**21VU30**
Infinite Control 120V, 15A	APW2E-55564	**21VU29**
Infinite Control 208V, 13A	2E-87054-EGO	**21VY69**
Infinite Switch, 120V, 13A	APW2E-1327900	**21VP41**
Infinite Switch, 220V, 13A	APW2E-1328200	**21VP42**
Jiffy Clip	2P-89120	**21VZ02**
Knob	APW2R-55825	**21VU36**
Lamp, 40W, 120V	APW2E-75916	**21VX41**
Limit Thermostat	2T-69106	**21VU92**
Pan Element, 8 in.	63456	**21VU82**
Perma Gum Package Assembly	55872	**21VU37**
Porcelain Socket	2E-73003	**21VX06**
Rheostat, 120V	2E-83221	**21VX77**
Rheostat, 1K Ohm	86281	**21VY57**
Rheostat, 208/240V	2E-83222	**21VX78**
Rocker Switch	2E-70444800	**21VX05**
Rocker Switch	2E-89501	**21VZ11**
Speed Nut	2C-89025	**21VY94**
Spring	AS-8902200	**21VY92**
Strain Relief Bushing	8967400	**21VY99**
Switch	2E-67005	**21VU88**
Thermostat	APW2T-56527	**21VU56**
CLEVELAND		
Temp Sensor	SK50933-1	**28ZJ27**
VOLLRATH		
Miniature Rocker Switch	23420-1	**21WH72**
Power Cord, 16 ga.	17085-1	**21WH58**
Power Cord, 18 ga.	17023-1	**21WH54**
Screw Thread Rolling, 10-32	17014-3	**21WH53**
Short Stem Thermostat	17037-1	**21WH55**
Silicone Rubber Heater Gasket	178681-1	**21WH69**
Freezer		
TRUE		
Lamp, F013	801159	**33RR37**
Motor, 115V	800448	**32ZH96**
Fryer		
IMPERIAL		
Buzzer	33496-230	**21WF55**
Fan, 115V	33648-115	**21WF56**
Gas Valve Knob	28328	**21WF49**
High Limit Switch	1177	**21WF22**
Micro Door Switch	1355	**21WF30**
Oven Thermocouple	1121	**21WF03**
Pilot Burner Assembly	10000-9	**21WE86**
Power Switch	1126	**21WF04**
Thermopile	1096	**21WE93**
Thermostat	1175	**21WF20**
Thermostat	1160	**21WF12**
Gas Mixing Kettles		
CLEVELAND		
Bridge Rectifier,600V	KE50581	**28ZG74**
Griddle		
CLEVELAND		
Ignitor/Pilot Assembly,T1/T4	SK2477000	**28ZJ10**
VULCAN HART		
Fenwal Ignition Module	00-498443	**29AA45**
Oven		
BLODGETT		
Flex Hose	33249	**21WC83**
Fuse, 10A	20162	**21WA97**
Lamp Socket	4922	**21VZ55**
Light Indicator, Red, 28V	18265	**21WA72**
Reducer,Stainless Steel, ¾ To ½ NPT	55107	**19XL05**
Rotary Switch	21068	**21WC25**
Stainless Steel Reducer	55107	**19XL05**
Prep Machine		
GLOBE		
Power Cord Strain Relief	877	**19XL21**
Rubber Foot	40	**24ER07**
ROBOT COUPE		
Blade	27055	**21WG23**
Cutter Bowl Lid	106458S	**21WF99**
Lid	29341	**21WG43**
R2N Motor Support, 3 qt.	39108	**21WG55**
S Blade	27061	**21WG24**
Speed Control Pot	RV6043	**21WG97**
VOLLRATH		
Hex Nut,5/16-18,Nyloc	353	**32ZJ24**
Rubber Foot,1/2" dia.	303	**32ZJ21**
Ranges		
CLEVELAND		
Pinch Valve,1 in.	104464	**28ZJ25**
GARLAND MANUFACTURING		
Door Spring	1005800	**21WE67**
Knob	1089100	**21WE70**
VULCAN HART		
Burner Knob	00-499595-00001	**28ZX14**
GE Motor	00-419720-00002	**29AC74**
Pilot Tip	00-412063-00002	**28ZX44**
Power Switch Harness Assembly	00-427755-000G1	**28ZY56**
Water Level Probe	00-817233	**28ZZ60**
Refrigeration		
SILVER KING		
Starter, 115V/230V	99184P	**29PC68**
Transformer Assembly	26039	**28ZV63**
TRUE		
Defrost Timer	831971	**21WH31**
Lamp, 120V	801112	**21WH14**
Motor	800401	**21WH06**
Shelf Clip Kit	920158	**21WH48**
Steamer		
CLEVELAND		
Coupling, ⅛ in.	104838	**28ZG26**
Hex Lock Nut, ¼-20	14665	**28ZG19**
Ignition Module Control	03546	**28ZJ16**
Immersion Element,208 to 220V	FK103881	**28ZJ14**
Motorized Timer	110198	**28ZH66**
O-Ring	FA05002-37	**28ZG20**
O-Ring,EPDM-E50	FA05002-12	**28ZG11**
Screw,8-32x1/2 in.	FA11092	**32ZE75**
Steam Valve,3/4	KE02055-3	**28ZJ15**
Transformer,120-24V	20528	**28ZH17**
VULCAN HART		
Filter Cartridge	00-854306-00013	**29AC59**

Refrigeration Replacement Gaskets

For all of your OEM door gaskets and refrigeration equipment needs, search using your manufacturer model or serial number. To properly size a gasket, measure the existing outside edge to outside edge. Visit Grainger.com for the full product offering.

6PPJ8

6PPJ1

6PPK5

6PPK1

6PPJ7

True®

Commercial Refrigerators and Freezers

Provide years of reliable service in demanding commercial applications. Most models come with heavy-duty casters (height does not include casters). Include NSF-certified temperature gauge and a dynamic condenser that delivers superior performance in high-temperature food service environments. Adjustable shelves feature stainless steel supports and chrome-plated clips. Freezer lids include locks, except for 6PPK6 and 6PPK8.

Note: For repair parts, go to Grainger.com.

Description	Color	Refrigerator Cap.	Freezer Cap.	H	W	D	Door Style	Includes	Std.	Mfr. Model	Item No.
Undercounter Refrigerators											
Undercounter	Silver	6.5 cu ft	—	29 ¾ in	27 ⅝ in	30 ⅛ in	Solid	2 Adj. PVC Coated Wire Shelves, 4 Shelf Clips Included Per Shelf, Cord and Plug Set	ANSI, NSF	TUC-27-HC	**6PPJ8**
	Silver	12 cu ft	—	29 ¾ in	48 ⅜ in	30 ⅛ in	Solid	4 Shelf Clips Included Per Shelf, Cord and Plug Set, PVC Coated Wire Shelves	ANSI, NSF	TUC-48-HC	**6PPJ9**
Reach-In Refrigerators											
Commercial	Silver	23 cu ft	—	78 ⅜ in	27 in	29 ½ in	Solid	4 Shelf Clips, Cord and Plug Set	ANSI, NSF	T-23-HC	**6PPJ1**
	Silver	49 cu ft	—	78 ⅜ in	54 ⅛ in	29 ½ in	Solid	4 Shelf Clips Included Per Shelf, 6 Adj. PVC Coated Wire, Cord and Plug Set	ANSI, NSF	T-49-HC	**6PPJ3**
	Silver	72 cu ft	—	78 ⅜ in	78 ⅛ in	29 ½ in	Solid	4 Shelf Clips Included Per Shelf, Cord and Plug Set, Black PVC Coated Wire Shelves	ANSI, NSF	T-72-HC	**6PPJ5**
Refrigerated Merchandisers											
Glass Door Merchandiser	White	12 cu ft	—	62 ⅜ in	24 ⅞ in	25 in	Glass	4 Shelf Clips, Cord and Plug Set	CE Certified, cULus, NSF/ ANSI 7, UL EPH Listed	GDM-12-HC-TSL01	**6PPK4**
	White	23 cu ft	—	78 ⅝ in	27 in	31 ½ in	Glass	4 Shelf Clips, Cord and Plug Set	CE Certified, cULus, NSF/ ANSI 7, UL EPH Listed	GDM-23-HC-TSL01	**6PPK5**
	White	49 cu ft	—	78 ⅝ in	54 ⅛ in	31 ½ in	Glass	4 Shelf Clips, Cord and Plug Set	CE Certified, cULus, NSF/ ANSI 7, UL EPH Listed	GDM-49-HC-TSL01	**6PPK7**
Undercounter Refrigerators											
Undercounter, Stainless Steel, One Door	Silver	6.3 cu ft	—	31 ⅝ in	24 in	24 ¾ in	Solid	2 Front Leg Levelers, 4 Shelf Clips, Cord and Plug Set	ANSI, NSF	TUC-24-HC	**49T942**
Worktop Refrigerators											
Worktop, Stainless Steel, Two Door	Silver	16.7 cu ft	—	39 ½ in	48 ⅜ in	31 ⅛ in	Solid	16 Shelf Clips, 4 Casters	NSF, UL	TWT-48-HC	**49T943**
Refrigerator/Freezers											
Dual Temp, Stainless Steel, Half Door	Silver	10 cu ft	6.7 cu ft	78 ⅜ in	27 in	29 ¾ in	Glass	4 Shelf Clips Included Per Shelf	ANSI, NSF	T-23DT-HC	**49T938**
Dual Temp, Stainless Steel, Full Door	Silver	9.7 cu ft	9.7 cu ft	78 ⅜ in	54 ⅛ in	29 ½ in	Solid	4 Shelf Clips Included Per Shelf, 6 Adj. PVC Coated Wire, Cord and Plug Set	ANSI, NSF	T-49DT-HC	**49T939**
Freezer Merchandisers											
Glass Door Merchandiser	White	—	23 cu ft	78 ⅝ in	27 in	31 ½ in	Glass	4 Shelf Clips, Cord and Plug Set	CE Certified, cULus, NSF/ ANSI 7, UL EPH Listed	GDM-23F-HC-TSL01	**6PPK6**
	White	—	49 cu ft	78 ½ in	54 ⅛ in	31 ⅝ in	Glass	4 Shelf Clips, Cord and Plug Set	CE Certified, cULus, NSF/ ANSI 7, UL EPH Listed	GDM-49F-HC-TSL01	**6PPK8**
Reach-In Freezers											
Commercial	Silver	—	23 cu ft	83 ⅜ in	27 in	29 ½ in	Solid	3 Adj. Shelves, 4 Shelf Clips Included Per Shelf	CE Certified, cULus, Natural Refrigerant, NSF/ ANSI 7, UL Listed	T-23F-HC	**6PPJ2**
	Silver	—	49 cu ft	83 ⅜ in	54 ⅛ in	29 ½ in	Solid	4 Shelf Clips Included Per Shelf, 6 Adj. Shelves	CE Certified, cULus, Natural Refrigerant, NSF/ ANSI 7, UL Listed	T-49F-HC	**6PPJ4**
	Silver	—	72 cu ft	83 ⅜ in	78 ⅛ in	29 ½ in	Solid	4 Shelf Clips Included Per Shelf, (9) Adj. Shelves	CE Certified, cULus, Natural Refrigerant, NSF/ ANSI 7, UL Listed	T-72F-HC	**6PPJ6**
Bottle and Back Bar Bottle Coolers											
Commercial	Black	13 cu ft	—	33 ½ in	64 ½ in	26 ⅞ in	Solid	2 Front Leg Levelers, 4 Shelf Clips, Cord and Plug Set	ANSI, NSF	TD-65-24-HC	**6PPK1**
	Black	13 cu ft	—	37 in	58 ⅞ in	27 ¾ in	Solid	Bottle Cap Opener and Cap Catcher, Cord and Plug Set	ANSI, NSF	TBB-2-HC	**6PPK2**
Cold Beverage Dispensers											
Direct Draw Beer Dispenser	Black, Silver	—	—	39 ¾ in	23 ½ in	31 ¼ in	—	4 Casters, Door Lock, SS Insulated Beer Column	NSF Certified, UL Listed	TDD-1-HC	**49T940**
	Black, Silver	—	—	37 in	58 ⅞ in	27 ⅛ in	—	2 SS Insulated Beer Column, Door Lock, 2-Way Tapper Manifold	NSF Certified, UL Listed	TDD-2-HC	**49T941**
Worktop Refrigerated Preparation Tables											
Commercial	Silver	6.5 cu ft	—	43 in	27 ⅝ in	30 ⅛ in	Solid	4 Casters, 4 Shelf Clips	NSF, UL	TSSU-27-08-HC	**6PPJ7**
	Silver	6.5 cu ft	—	33 ⅜ in	27 ⅝ in	30 ⅛ in	Solid	2 Adj. PVC Coated Wire Shelves, 4 Shelf Clips Included Per Shelf, Cord and Plug Set	ANSI, NSF	TWT-27-HC	**6PPK0**
Sandwich/Salad, Stainless Steel, Two Door	Silver	16.7 cu ft	—	43 in	48 ⅜ in	31 ⅛ in	Solid	12 Clear Polycarbonate NSF Approved Food Pans, 16 Shelf Clips, 4 Casters, Removable Cutting Board	NSF, UL	TSSU-48-12-HC	**49T944**

52WR07

45NW38

Undercounter Refrigerators and Freezers

Designed for healthcare, research, and laboratory use to maintain critical storage temperatures. Feature automatic defrost and digital temperature display.

REFRIGERATORS
Interior-mounted electronic temperature control with remote alarm signal interface.

FREEZERS
52WR11 can hold -20°C temperature.

Description	Color	Refrigerator Cap.	Freezer Cap.	H	W	D	Mfr. Model	Item No.
Refrigerators								
MicroSentry II, Reversible-Side Hinge, Solid, Swing Door	White	5.3 cu ft	—	33 ¾ in	23 ⅞ in	23 ¾ in	MS24RAS4LW1	**52WR06**
MicroSentry II, Reversible-Side Hinge, Glass, Swing Door	White	5.3 cu ft	—	33 ¾ in	23 ⅞ in	23 ¾ in	MS24RAG4RW1	**52WR07**
MicroSentry II, Compact, Reversible-Side Hinge, Solid, Swing Door	White	2.8 cu ft	—	33 ¾ in	14 ⅞ in	23 ¾ in	MS15RAS4RW1	**52WR08**
Reversible-Side Hinge, Solid, Swing Door	White	4.6 cu ft	—	31 ⅛ in	23 ⅞ in	23 ⅝ in	SA24RAS4RW1	**45NW34**
Reversible-Side Hinge, Solid, Swing Door	White	4.6 cu ft	—	31 ⅛ in	23 ⅞ in	23 ⅝ in	SA24RAS4LW1	**45NW35**
Reversible-Side Hinge, Solid, Swing Door	Stainless Steel	4.6 cu ft	—	31 ⅛ in	23 ⅞ in	23 ⅝ in	SA24RAS5RS2	**45NW38**
Reversible-Side Hinge, Solid, Swing Door	Stainless Steel	4.6 cu ft	—	31 ⅛ in	23 ⅞ in	23 ⅝ in	SA24RAS5LS1	**45NW39**
Freezers								
Left-Side Hinge, Solid, Swing Door	White	—	4.7 cu ft	33 ¾ in	23 ⅞ in	23 ¾ in	MS24FAS4LW1	**52WR11**
Right-Side Hinge, Solid, Swing Door	White	—	4.7 cu ft	33 ¾ in	23 ⅞ in	23 ¾ in	MS24FAS4RW1	**52WR10**

6RNP8

6RNP1

Compact Refrigerators/Freezers and Beverage Center

Adjustable shelves. Door has can shelf with bottle rack. Units feature swing doors, 2 wheels and 2 leveling legs, flush back design, reversible door hinge, and humidity control. 49JY90 and 49JY91 are rated for outdoor use.

Refrigerator Cap.	Freezer Cap.	H	W	D	BLACK Brand	BLACK Mfr. Model	BLACK Item No.	WHITE Brand	WHITE Mfr. Model	WHITE Item No.	STAINLESS STEEL Brand	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Refrigerators													
1.7 cu ft	—	20 in	17 ⅝ in	20 in	Danby	DAR017A2BDD	**6RNP8**	—	—	—	—	—	—
2.3 cu ft	—	25 in	18 ⅝ in	19 ¾ in	MicroFridge	2.3MF4R	**49JY85**	—	—	—	—	—	—
2.3 cu ft	—	25 in	18 ⅝ in	17 ⅝ in	Danby	DAR022A1BDB	**49JY88**	—	—	—	—	—	—
2.5 cu ft	—	27 ⅞ in	17 ¾ in	20 ⅛ in	—	—	—	Danby	DAR026A1WDD	**6RNP9**	—	—	—
2.6 cu ft	—	26 ⅞ in	17 ⅝ in	20 in	Danby	DAR026A1BDD	**10N668**	—	—	—	—	—	—
4.4 cu ft	—	32 ⅝ in	20 ⅝ in	21 in	Danby	DAR044A4BDD	**10N669**	Danby	DAR044A4WDD	**6RNR0**	—	—	—
Refrigerator/Freezers													
2.6 cu ft	0.31 cu ft	32 ¾ in	17 ¾ in	18 ½ in	—	—	—	Danby	DCR032A2WDD	**6RNP6**	—	—	—
7.4 cu ft	2.7 cu ft	59 ¾ in	23 ¾ in	26 ⅜ in	—	—	—	Danby	DFF101B1WDB	**39E722**	Danby	DFF101B1BSLDB	**49JY92**
8 cu ft	2.3 cu ft	58 ⅝ in	23 ¾ in	26 ¾ in	MicroFridge	10.3LMF4R	**49JY87**	—	—	—	—	—	—
Refrigerators with Ice Compartment													
1.6 cu ft	—	19 ¾ in	17 ⅝ in	18 ½ in	Danby	DCR016A3BDB	**10N219**	—	—	—	—	—	—
3.2 cu ft	—	32 ⅝ in	17 ⅝ in	18 ½ in	Danby	DCR032A2BDD	**10N665**	—	—	—	—	—	—
4.4 cu ft	—	32 ⅝ in	20 ⅝ in	20 ⅞ in	Danby	DCR044A2BDD	**10N666**	Danby	DCR044A2WDD	**6RNP7**	—	—	—
Beverage Centers													
3.1 cu ft	—	33 ⅝ in	17 ⅞ in	19 ¾ in	Danby	DBC117A1BSSDB-6	**6RNP1**	—	—	—	—	—	—
4.6 cu ft	—	34 in	21 ½ in	24 ½ in	—	—	—	—	—	—	Frigidaire	FFBC4622QS	**52HZ70**
Outdoor-Rated Refrigerators													
3.3 cu ft	—	33 ⅝ in	17 ⅝ in	20 ⅛ in	—	—	—	—	—	—	Danby	DAR033A1BSLDBO	**49JY90**
4.4 cu ft	—	33 ⅝ in	20 ¾ in	21 ⅜ in	—	—	—	—	—	—	Danby	DAR044A6BSLDBO	**49JY91**

6RNR3

Chest and Upright Freezers

White color; adjustable thermostat.

Freezer Cap.	Overall Height	Overall Width	Overall Depth	Door Style	Mfr. Model	Item No.
Residential Chest Freezers						
3.8 cu ft	33 in	24 ⅞ in	22 ⅛ in	Solid, Flip	DCF038A3WDB	**6RNR3**
5.5 cu ft	33 in	32 ⅜ in	22 ⅛ in	Solid, Flip	DCF055A2WDB	**6RNR4**
7.2 cu ft	33 in	39 ⅞ in	22 ⅛ in	Solid, Flip	DCF072A3WDB	**6RNR5**
Residential Upright Freezers						
4.3 cu ft	36 ⅛ in	23 ⅝ in	24 ½ in	Solid, Swing	DUFM043A2WDD	**6RNR7**
8.5 cu ft	58 ¾ in	23 ⅝ in	25 ⅝ in	Solid, Swing	DUFM085A4WDD	**6RNR8**

6RNN4

Microwave-Refrigerator Combination Units

One-plug-to-the-wall combination units have Safe-Plug technology to limit electrical draw to 11 to 13A. Include Stay Safe 1st Defense sensor to avoid unnecessary fire alarms, 2 USB charging stations, and 3-prong standard outlet for charging laptop, smartphone, or tablet.

Refrigerators—2 full-width wire shelves (except 35PF90), door shelves, 2-liter bottle storage, reversible door hinges, and leveling legs.

Microwaves—700W, glass carousel, programmable LED display and clock. All units are UL Listed.

Microwave Cap.	Refrigerator Cap.	Freezer Cap.	H	W	D	BLACK Mfr. Model	BLACK Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.	WHITE Mfr. Model	WHITE Item No.
Refrigerator and Microwave											
0.7 cu ft	2.3 cu ft	—	35 ½ in	18 ⅝ in	19 ¾ in	2.3MF4-7B1CB	**6RNN4**	—	—	—	—
0.7 cu ft	2.3 cu ft	—	35 ⅝ in	18 ⅝ in	19 ¾ in	—	—	2.3MF4-7B1SCB	**35PF89**	—	—
Refrigerator, Freezer and Microwave											
0.7 cu ft	2.2 cu ft	0.8 cu ft	45 ⅛ in	18 ⅝ in	20 ⅛ in	—	—	—	—	3.0RMF4H-7B1W	**10N215**
0.7 cu ft	2.2 cu ft	0.8 cu ft	44 in	18 ⅝ in	19 ⅝ in	—	—	3.1MF7-7B1SX	**35PF90**	—	—
0.7 cu ft	3.3 cu ft	1.3 cu ft	56 ⅛ in	18 ⅝ in	22 ½ in	4.8MF4-7B1X	**6RNN7**	—	—	—	—
0.7 cu ft	3.3 cu ft	1.3 cu ft	58 ⅛ in	18 ⅝ in	22 ½ in	—	—	—	—	4.8RMF4H-7B1W	**10N217**
0.9 cu ft	7.9 cu ft	2.4 cu ft	71 ⅛ in	23 ¼ in	26 ¾ in	10.3LMF4-9B1X	**10N218**	—	—	—	—
0.9 cu ft	7.9 cu ft	2.4 cu ft	71 ¼ in	23 ¾ in	26 ¾ in	—	—	—	—	10.3LMF4-9B1WX	**6RNN8**

White
31EV44

Stainless
Steel,
52HZ74

FRIGIDAIRE

Refrigerator/Freezers

Top Freezer, Right and Reversible Door Hinge—Brightly-lit interior, clear dairy door, and Space Wise organization system makes it easy to find exactly what you need. Humidity-controlled crisper drawers keep fruits and vegetables fresh. Stainless steel exterior units are resistant to fingerprints, easy to clean, and the interiors are designed to contain spills for easier cleanup.

Total Cap.	Refrigerator Cap.	Freezer Cap.	Defrost	Energy Star Compliant	Amps	H	W	D	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
10.1 cu ft	7.4 cu ft	2.7 cu ft	Automatic	Yes	15 A	59 ⅞ in	23 ¾ in	26 in	FFTR1022	**31EV43**	**31EV44**	—
11.6 cu ft	8.4 cu ft	3.2 cu ft	Automatic	Yes	15 A	59 ⅞ in	23 ¾ in	28 ¾ in	FFTR1222	**31EV41**	**31EV42**	—
11.6 cu ft	8.4 cu ft	3.2 cu ft	Automatic	Yes	15 A	59 ⅞ in	23 ¾ in	28 ¾ in	FFET1222UV	—	—	**52HZ74**

UltraQuiet
III, Black
52HZ51

UltraQuiet III
White
31EU99

UltraQuiet Plus,
Stainless Steel
31EU92

FRIGIDAIRE

Under Counter Dishwashers

UltraQuiet III—Multiple cycle options include a gentle setting for cleaning fine china and crystal and an energy efficient no-heat dry option. Set your dishwasher to start at a specific time with the delay start feature and adjust washing pressure with AquaSurge technology. Large, multicompartment silverware basket has room for over 180 items.

UltraQuiet Plus—OrbitClean spray arms provide an excellent clean with 4 times better water coverage than traditional spray arms. DishSense technology automatically adjusts the cycle times based on how much cleaning the dishes require. Large-capacity unit fits up to 14 place settings and upper rack adjusts to fit tall or odd-shaped items. Also feature multiple cycles options including a quick wash and rinse only cycle.

Description	D	Depth with Door Open	Min. Height	Max. Height	Amps	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
UltraQuiet III									
18", ADA Compliant, Energy Star Rated, Stainless Steel Tub	23 in	46 in	32 ½ in	35 ¼ in	8.5 A	FFBD1821	**31EV02**	**31EU99**	**31EV01**
24 in, ADA Compliant, Energy Star Rated, Stainless Steel Tub	23 in	44 ½ in	32 ½ in	35 in	10 A	FDB2410H	**31EU98**	—	**31EU96**
24 in, Energy Star Rated, Polymer Tub	25 in	49 ¼ in	33 ½ in	35 in	10 A	FFBD2412	**52HZ51**	—	—
UltraQuiet Plus									
Gallery 24'', Energy Star Rated, Polymer Tub	25 in	49 ¼ in	34 ¼ in	35 ¼ in	10 A	FGHD2465	—	—	**31EU92**

453T02

453T01

453R99

FRIGIDAIRE

Black Stainless Steel Appliances

The Smudge-Proof black stainless steel collection combines classic style with an easy-to-clean fingerprint-resistant surface.

Oven Ranges—Freestanding ranges feature even-temp. cooking technology for even baking. Also feature one-touch self-cleaning oven, electronic kitchen timer, and Store-More storage drawer.

Dishwasher—DishSense technology automatically adjusts the cycle time based on the condition of the dishes. OrbitClean technology provides four times more water coverage. ENERGY STAR Certified.

Oven Capacity	No. of Burners	Self Cleaning	H	W	D	Cooking Surface	Cooktop BTU Output	Mfr. Model	Item No.
Oven Ranges									
5.3 cu ft	5	Yes	50 3⁄64 in	31 51⁄64 in	29 33⁄64 in	Ceramic Glass	1200 to 3000	FFEF3054TD	**453T02**
5.3 cu ft	5	Yes	50 3⁄64 in	31 51⁄64 in	29 33⁄64 in	Smoothtop	5000 to 17,000	FFGF3054TD	**453T01**

Installation Type	No. of Wash Cycles	Min. Height	Max. Height	W	D	Depth with Door Open	Item No.
Dishwasher							
Built-In	5	33 ½ in	35 ¼ in	24 23⁄64 in	27 ⅛ in	49 ¼ in	**453R99**

52HZ55

52HZ57

55KF74

52HZ66

FRIGIDAIRE

Oven Ranges

- **For residential or intermittent use**

These 30" freestanding ranges feature simple controls and provide consistent, fast, and accurate cooking and baking temperatures.

52HZ55 and 52HZ56 have easy-to-use controls to set cooking temperatures. Convenient storage drawer stores cookware.

55KF72 and 55KF73 have large capacity ovens allowing extra space to cook more dishes at once.

52HZ65, 52HZ66, and 52HZ69 have a 14,000 BTU burner that can boil water faster than traditional range settings.

								BLACK		WHITE		STAINLESS STEEL	
Oven Capacity	No. of Burners	Self Cleaning	H	W	D	Cooking Surface	Cooktop BTU Output	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model
Electric Ranges													
4.2 cu ft	4	Yes	47 in	29 ⅞ in	28 ½ in	Ceramic Glass	1200 to 3000	**52HZ55**	FFEF3054TB	**52HZ56**	FFEF3054TW	—	—
5.3 cu ft	4	Yes	46 9⁄16 in	29 ⅞ in	25 ¾ in	Coil	1500 to 2600	**55KF73**	FFEF3016VB	**55KF72**	FFEF3016VW	—	—
5.3 cu ft	4	Yes	47 in	29 ⅞ in	28 ½ in	Ceramic Glass	1200 to 3000	—	—	—	—	**52HZ57**	FFEF3054TS
Natural Gas Ranges													
5 cu ft	4	No	46 9⁄16 in	29 ⅞ in	25 ¾ in	Gas Burner	5000 to 14,000	**55KF74**	FCRG3015AB	—	—	—	—
5 cu ft	5	Yes	47 in	29 ⅞ in	29 ¼ in	Black Porcelain	5000 to 17,000	—	—	—	—	**52HZ69**	FFGF3054TS
5 cu ft	5	Yes	47 in	29 ⅞ in	29 ¼ in	Colored -Coordinated Porcelain	5000 to 17,000	**52HZ65**	FFGF3054TB	**52HZ66**	FFGF3054TW	—	—

31EV54

31EV53

31EV52

Range Hoods

FRIGIDAIRE

Feature adjustable speed convertible exhaust system with external or recirculating exhaust. Durable aluminum filters are dishwasher safe. Hoods can be vented horizontally or vertically.

Voltage	Amps	Air Delivery (cfm)	High Speed Sones	H (in.)	W (in.)	D (in.)	Duct Opening	Mfr. Model	BLACK Item No.	WHITE Item No.	STAINLESS STEEL Item No.
120 V AC	1.06	220	5.8	5 in	30 in	18 ⅝ in	7 in dia	FHWC3025	**31EV54**	**31EV53**	**31EV52**

FRIGIDAIRE
Washers
- 5 temperature keys
- For residential or intermittent use

Large capacity top load model has easy to use electronic controls that let you choose the wash cycle to accommodate a wide range of laundering requirements, from hand wash to heavy duty. You can also select from 5 different soil levels and a variety of cycle options.

Washer Capacity (cu.ft.)	H	W	D	Height with Lid Open	No. of Wash Cycles	Amps	Volts	Mfr. Model	Item No.
Top Load Washer									
4 cu ft	44 ¼ in	27 in	29 in	59 in	14	15 A	120 V	FFTW4120SW	**54HH11**

35ME18

FRIGIDAIRE
Power Cords

Round power cords for ranges and dryers are lengths of electrical cable specifically designed to connect appliances to a compatible outlet. These heavy-duty cords have a larger diameter (lower gauge) than general purpose power cords, with a molded plug at one end and bare wire at the other end for wiring to the appliance. Eyelet connector ends. 125/250VAC. UL Listed.

Max. Amps	Cord Length	Wire Size	No. of Cond.	Plug Configuration	Jacket Color	Item No.
40.0 A	4 ft	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME18**
50.0 A	4 ft	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME21**
50.0 A	4 ft	(2) 6 AWG, (2) 8 AWG	4	Right Angle NEMA 14-50P	Black	**35ME22**
50.0 A	6 ft	(1) 8 AWG, (2) 6 AWG	3	Right Angle NEMA 10-50P	Gray	**35ME20**

FRIGIDAIRE
Electric Dryers
- For residential or intermittent use

Large-capacity units dry even extra-large loads quickly and efficiently. Include wrinkle-release setting for neat, wrinkle-free clothes. 54HH12 has 10 temperature settings.

H	W	D	Depth with Door Open	Dryer Cycle Settings	Temp. Settings	Amps	Voltage	Mfr. Model	Item No.
6.7 cu ft									
42 ⅞ in	27 in	30 in	49 in	10	10 Temp. Keys	24 A	240 V	FFRE4120SW	**54HH12**

FRIGIDAIRE
Gas Dryers
- 120V
- 15A
- For residential or intermittent use

Large-capacity dryers allow you to dry more clothes in less time. Features a variety of dry cycles to meet most of your drying needs such as active wear, bulky, and sanitize. Dry clothes fast with the Quick Dry cycle, while the Anti-Wrinkle function helps reduce wrinkles.

H	W	D	Depth with Door Open	Dryer Cycle Settings	Temp. Settings	Brand	Mfr. Model	Item No.
4 cu ft								
42 ⅞ in	27 in	30 in	49 in	10	10 Temp. Keys	Frigidaire	FFRG4120SW	**54HH13**

FRIGIDAIRE
Laundry Centers
- Dryer capacity: 5.5 cu. ft.
- Washer capacity: 4.0 cu. ft.
- For residential or intermittent use
- ETL Listed
- ENERGY STAR Rated

Space-saving washer/dryer combination units provide a fast, gentle wash. Vibration control system allows balanced, smooth operation.

H	W	D	Depth with Door Open	Dryer Cycle Settings	Wash Cycle Settings	Amps	Voltage	Mfr. Model	Item No.
Electric									
76 in	27 in	31 ½ in	47 ½ in	3	8	22 A	240 V	FLCE7522AW	**31EV12**
Gas									
76 in	27 in	31 ½ in	47 ½ in	3	8	13 A	140 V	FLCG7522AW	**31EV13**

31EV12

31EV13

Lock Stitch Hem Bedspread-Bone

Herringbone Weave Blanket

Hypo-Allergenic Plush-Nylon Blanket

Quilted Blanket

Anti-Pill Fleece Blanket

Leno Weave Blanket

martex | Millennium
vellux
EcoPure
R&R Textile Mills Inc.
Grand Patrician
Supplier Diversity

Bedspreads and Blankets

Long lasting 100% cotton leno weave thermal blankets provide natural warmth and softness. Blankets are preshrunk and have colorfast dye.

Lightweight, soft fleece blankets have an anti-pill finish for long term use. Made of 100% spun polyester.

Description	Fabric	Size	W	L	Blanket Weight	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Bedspread									
Lock Stitch Hem	Poly/Cotton w/100% Polyester Fill	Twin	71 in	102 in	—	Bone, Forest Green, Slate	Martex	**H2168**	1
		Twin	81 in	110 in	—	Bone, Forest Green, Slate, Khaki, Navy, Chianti	Martex	**H2169**	1
		Full	96 in	116 in	—		Martex	**H2165**	1
		King	120 in	118 in	—		Martex	**H2166**	1
		Queen	100 in	118 in	—		Martex	**H2167**	1
Blanket									
Herringbone Weave	Woven - 100% Cotton	Twin	66 in	90 in	2.8 lb	Natural	Grand Patrician	**5ZXX4**	4
		Twin	66 in	90 in	—	White	Grand Patrician	**15V630**	4
		Full	80 in	90 in	3.3 lb	Natural	Grand Patrician	**5ZXX5**	4
		Full	80 in	90 in	—	White	Grand Patrician	**15V631**	4
		Queen	90 in	90 in	3.8 lb	Natural	Grand Patrician	**5ZXX6**	2
		Queen	90 in	90 in	—	White	Grand Patrician	**15V632**	2
		King	108 in	90 in	4.5 lb	Natural	Grand Patrician	**5ZXX7**	2
		King	108 in	90 in	—	White	Grand Patrician	**15V633**	2
Hypo-Allergenic	Flocked Nylon	Twin	66 in	90 in	2.03 lb	Pale Jade, Bluebell	Vellux	**D9814**	4
		Twin	66 in	90 in	2.2 lb	Ivory, Tan	Vellux	**D9814**	4
		Full	80 in	90 in	2.51 lb	Pale Jade, Bluebell	Vellux	**D9815**	4
		Full	80 in	90 in	2.7 lb	Ivory, Tan	Vellux	**D9815**	4
		Queen	90 in	90 in	2.82 lb	Pale Jade, Bluebell	Vellux	**D9816**	4
		Queen	90 in	90 in	3 lb	Ivory, Tan	Vellux	**D9816**	4
		King	108 in	90 in	3.4 lb	Pale Jade, Bluebell	Vellux	**D9813**	4
		King	108 in	90 in	3.7 lb	Ivory, Tan	Vellux	**D9813**	4
		Twin Double	72 in	90 in	2.24 lb	Pale Jade	Vellux	**30AC84**	4
		Twin Double	72 in	90 in	2.24 lb	Bluebell	Vellux	**30AC89**	4
Filled Blanket									
Quilted	Reuse-Recycled Cotton Cover/Polyfill	Twin	66 in	90 in	14 oz	White	EcoPure	**5ZXJ0**	4
		Full/Queen	90 in	90 in	18 oz		EcoPure	**5ZXJ1**	4
		King	108 in	90 in	23 oz		EcoPure	**5ZXJ2**	2
Fleece Blanket									
Anti-Pill	Fleece - 100% Polyester	Twin	66 in	90 in	9 oz/sq yd	Beige	R & R Textile	**5TAD1**	1
		Full	80 in	90 in	9 oz/sq yd		R & R Textile	**5TAD2**	1
		Queen	90 in	90 in	9 oz/sq yd		R & R Textile	**5TAD3**	1
		King	108 in	90 in	9 oz/sq yd		R & R Textile	**5TAD4**	1
Microfiber		Full	80 in	90 in	2.9 lb	Ivory, Khaki	Martex	**D9498**	4
		Queen	90 in	90 in	3.2 lb		Martex	**D9499**	4
		King	108 in	90 in	3.9 lb		Martex	**D9497**	4
Thermal Blanket									
Leno Weave	Woven - 100% Cotton	Twin	66 in	90 in	2.5 lb	White	R & R Textile	**5TAC6**	1
Snag Free		Twin	66 in	90 in	3 lb		R & R Textile	**36N046**	1

Gold Choice Fiber Fill-Queen

Microvent Soft Fiber Fill-Standard

Comforel Fiber Fill-Standard

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Supplier Diversity

Pillows

SURE CHECK

Self-deodorizing, nonallergenic, and flame-retardant pillows have thousands of microscopic vents covering the entire pillow. These vents help destroy bacteria by allowing fresh air to flow through the pillow.

GOLD CHOICE

The poly-cotton ticking with extra hollow siliconized fiber fill of these pillows provides ideal comfort and support.

MICROVENT SOFT

Durable without sacrificing comfort, the microscopic air vents as well as an antibacterial, antistatic, flame-retardant, and fluidproof finish make these pillows an ideal choice for healthcare facilities.

MICRO DENIER

Soft micro fiber filling provides a down-like feel using blown polyester. Pillows have a 100% cotton T230 ticking with piped edges.

MARTEX BRENTWOOD

Cluster fiber pillows have a down-like softness and are easy care. Soft and comfortable microcluster polyester fiber fill with polyester/cotton cover.

COMFOREL

The 100% cotton T230 ticking with piped edges and cluster fiber fill provide both comfort and support. The hypoallergenic and antimicrobial protection inhibits a variety of odor causing molds, bacterias, and funguses. Washable.

ECOPURE

Soft, warm, and comfortable fiber fill reprocessed as a recycled, environmentally friendly product with cotton cover.

Description	Fill Weight	Thread Count	W	L	Brand	Item No.	Pkg. Qty.
Sure Check Polyester Fill Type							
Standard Polyester Pillow	18 oz	—	20 in	26 in	Martex	**15V654**	12
Gold Choice Fill Type							
Standard Poly Cotton Pillow	22 oz	Window Pane Ticking	21 in	27 in	R & R Textile	**5NXC2**	1
Queen Poly Cotton Pillow	27 oz	Window Pane Ticking	21 in	30 in	R & R Textile	**5NXC3**	1
King Poly Cotton Pillow	33 oz	Window Pane Ticking	21 in	37 in	R & R Textile	**5NXC4**	1
Microvent Soft Fiber Fill Type							
Standard Vinyl Pillow	18 oz	—	21 in	27 in	R & R Textile	**5NXC5**	1
Small Standard Vinyl Pillow	16 oz	—	18 in	25 in	R & R Textile	**5TAA1**	1
Micro Denier Fiber Fill Type							
Standard 100% Cotton Pillow	24 oz	T230	21 in	27 in	R & R Textile	**5NXA9**	1
Queen 100% Cotton Pillow	29 oz	T230	21 in	30 in	R & R Textile	**5NXC0**	1
King 100% Cotton Pillow	33 oz	T230	21 in	37 in	R & R Textile	**5NXC1**	1
Martex Brentwood Microcluster Fill Type							
Standard Recycled Polyfiber Pillow	22 oz	152	20 in	26 in	Martex	**5ZXJ6**	12
Queen Recycled Polyfiber Pillow	27 oz	152	20 in	30 in	Martex	**5ZXJ8**	8
King Recycled Polyfiber Pillow	34 oz	152	20 in	36 in	Martex	**5ZXJ9**	6
Jumbo Recycled Polyfiber Pillow	25 oz	152	20 in	28 in	Martex	**5ZXJ7**	10
Comforel Fill Type							
Standard 100% Cotton Pillow	22 oz	T230	21 in	27 in	R & R Textile	**5NXA6**	1
Queen 100% Cotton Pillow	27 oz	T230	21 in	30 in	R & R Textile	**5NXA7**	1
King 100% Cotton Pillow	33 oz	T230	21 in	37 in	R & R Textile	**5NXA8**	1
EcoPure Recycled Polyfiber Fill Type							
Jumbo Recycled Polyfiber Pillow	21 oz	240	20 in	28 in	Martex	**5ZXH5**	10

R&R
R&R Textile Mills Inc.

T130 Bedsheets and Pillowcases

▪ Pkg. of 12

60% Cotton, 40% Polyester blend for durability and comfort. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. 36N043 has 7" pocket.

W	L	WHITE Item No.
Fitted Sheets		
Twin		
36 in	80 in	36N043
Flat Sheets		
Twin XXL		
66 in	115 in	36N042
Pillowcases		
Full		
42 in	34 in	36N041

W	L	Thread Count	WHITE Item No.
Fitted Sheets			
Twin			
39 in	76 in	T180	5NWU0
39 in	80 in	T200	5NWU7
Full			
54 in	80 in	T200	5NWU8
Queen			
60 in	80 in	T200	5NWU9
King			
78 in	80 in	T200	5NWX0
Flat Sheets			
Twin XXL			
66 in	115 in	T180	5NWT9
66 in	115 in	T200	5NWU3
Twin			
66 in	104 in	T180	36N044
Full XXL			
81 in	115 in	T200	5NWU4
Queen XL			
90 in	115 in	T200	5NWU5
King XL			
108 in	115 in	T200	5NWU6
Pillowcases			
Full			
42 in	34 in	T180	5NWT8
42 in	36 in	T200	5NWU1
King			
42 in	46 in	T200	5NWU2

R&R
R&R Textile Mills Inc.

T180 and T200 Sheets and Pillowcases

▪ Pkg. of 12

Sheets and pillowcases are made from high-quality cotton/polyester fabric. Combine comfort and softness with durability. 5NWU0 has 9" pocket and fits mattress depth of 7" to 9" and full, queen and king have 12" pockets that fit depth of 10" to 12". 5NWU7 has a 12" pocket.

White Stripe

Bone

martex Millennium

T250 Bedsheets and Pillowcases

60/40 blend offers the softness of cotton and the strength of polyester. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. 12" pockets fit mattresses 10" to 14" deep, and 15" pockets fit mattress depths from 13" to 18". More colors available, see Grainger.com.

W	L	Pocket Size	Pkg. Qty.	WHITE Item No.	BONE Item No.
Fitted Sheets					
Twin XL					
39 in	80 in	12 in	6	52JP35	52JP52
Full XL					
54 in	80 in	0	6	52JP22	—
54 in	80 in	12 in	6	52JP36	52JP53
54 in	80 in	15 in	6	52JP39	52JP56
Queen					
60 in	80 in	0	6	52JP23	—
60 in	80 in	12 in	6	52JP37	52JP54
60 in	80 in	15 in	6	52JP40	52JP57
King					
78 in	80 in	0	6	52JP24	—
78 in	80 in	12 in	6	52JP38	52JP55
78 in	80 in	15 in	6	52JP41	52JP58
Flat sheets					
Twin XL					
69 in	115 in	0	6	52JP28	52JP45
Full XL					
87 in	115 in	0	6	52JP19	—
Full XXL					
84 in	120	0	6	52JP30	52JP47
King XL					
111 in	115 in	0	6	52JP33	52JP50
113 in	115 in	0	6	52JP21	—
King XXL					
111 in	120	0	6	52JP34	52JP51
Queen XL					
93 in	115 in	0	6	52JP31	52JP48
95 in	115 in	0	6	52JP20	—
Queen XXL					
93 in	120	0	6	52JP32	52JP49
Pillowcases					
Full					
44 in	36 in	0	12	52JP17	52JP42
44 in	36 in	0	12	52JP25	—
Queen					
44 in	40 in	0	12	52JP26	52JP43
King					
44 in	46 in	0	12	52JP18	52JP44
44 in	46 in	0	12	52JP27	—
Pillow Shams					
Full					
20 in	26 in	0	24	52JN69	—
20 in	26 in	0	24	52JN75	—

W	L	WHITE Item No.
Fitted Sheets - Pkg. of 6		
Twin		
39 in	75 in	52JN91
Twin XL		
39 in	80 in	52JN96
Full XL		
54 in	80 in	52JN97
Queen		
60 in	80 in	52JN98
King		
78 in	80 in	52JN99
Flat sheets - Pkg. of 6		
Twin XL		
69 in	115 in	52JN82
Full XL		
84 in	115 in	52JN84
Queen XL		
93 in	115 in	52JN86
King XL		
111 in	115 in	52JN89
Pillowcases - Pkg. of 12		
Full		
44 in	35 in	52JN78
Queen		
44 in	39 in	52JN79
King		
44 in	45 in	52JN80

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T200 Bedsheets and Pillowcases

60/40 blend offers the softness of cotton with the strength of polyester. Flat sheets and pillowcases have self-hem; fitted style has elastic on sides covering each corner. Twin have 9" pocket and fits mattress depth of 7" to 11" and full, queen and king have 12" pockets that fit depth of 10" to 14".

5ZXH6

R&R
R&R Textile Mills Inc.
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WESTPOINT HOME

Mattress Covers and Pillow Protectors

Anchor band mattress covers are made from 100% nonwoven polyester felt. Quilted mattress covers have a 5" onion pattern with a 5 oz. fill per sq. yd. The 12" cotton/poly fitted skirt fits most hospitality beds. Quilted mattress pads feature soft and comfortable fiberfill. Fiber provides down-like comfort and warmth. For mattresses up to 12"D.

W	Pkg. Qty.	Brand	75 inL Item No.	80 inL Item No.
Mattress Covers with Anchor Band				
36 in	1	R & R Textile	—	5TAA9
39 in	1	R & R Textile	—	5TAC1
54 in	1	R & R Textile	—	5TAC3
60 in	1	R & R Textile	—	5TAC4
78 in	1	R & R Textile	—	5TAC5
Mattress Pads, Fitted Style				
39 in	6	Martex	—	15V640
54 in	6	Martex	15V641	15V642
60 in	6	Martex	—	15V643
78 in	6	Martex	—	15V644
Mattress Pads with Anchor Band				
39 in	12	Martex	15V645	—
39 in	6	Martex	—	15V646
54 in	12	Martex	15V647	15V648
60 in	6	Martex	—	15V649
78 in	6	Martex	—	15V650
Quilted Mattress Cover, 5 oz., Elastic Fitted				
36 in	1	R & R Textile	—	5TAA2
39	1	R & R Textile	—	5TAA4
54 in	1	R & R Textile	—	5TAA6
60 in	1	R & R Textile	—	5TAA7
78 in	1	R & R Textile	—	5TAA8
Quilted Mattress Pads				
39 in	4	Martex	5ZXH6	—
54 in	4	Martex	5ZXH7	—
60 in	2	Martex	—	5ZXH8
78 in	2	Martex	—	5ZXH9
Quilted Waterproof Mattress Pads				
39 in	2	Westpoint Home	30AC79	—
54 in	2	Westpoint Home	30AC80	—
60 in	2	Westpoint Home	—	30AC81
78 in	2	Westpoint Home	—	30AC82

Size	L	W	Brand	Item No.	Pkg. Qty.
Pillowcases - Zipper Corner, 50% Polyester; 50% Cotton					
Standard	25 in	20 in	R & R Textile	36N048	12
Queen	30 in	21 in	R & R Textile	36N049	12
King	37 in	21 in	R & R Textile	36N050	12

34KZ26

34KY84

34KX95

DMI Duro-Med Industries

Mattress and Pillow Protectors

- Machine washable

Keep mattresses and pillows clean and sanitary.

Size	Protects	L	W	Type	Fabric	Material	Brand	Item No.	Pkg. Qty.
Mattress Encasement									
Twin	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	75 in	39 in	Zippered	Plastic	Plastic Nylon	Dmi	**34KZ26**	1
Full	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	75 in	54 in	Zippered	Plastic	Plastic	Dmi	**34KZ18**	1
Hospital	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	80 in	36 in	Contoured	Plastic	Plastic	Dmi	**34KZ12**	1
Hospital	Allergies, Waterproof	80 in	36 in	Zippered	Plastic	Plastic	Dmi	**34KZ13**	1
Queen	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	80 in	60 in	Contoured	Plastic	Plastic	Dmi	**34KZ16**	1
Queen	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	80 in	60 in	Zippered	Plastic Vinyl	Plastic	Dmi	**34KZ19**	1
King	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	80 in	78 in	Zippered	Plastic	Plastic	Dmi	**34KZ20**	1
King	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	80 in	78 in	Contoured	Plastic	Plastic	Dmi	**34KZ17**	1
Mattress Pad									
Standard	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	36 in	80 in	—	Sheepskin	Synthetic Sheepskin	Dmi	**34KY84**	1
Twin XL	Mattress	80 in	39 in	Quilted	Cotton/Polyester	Nonwoven Fabric	Basics	**45YJ77**	6
Twin XL	Mattress	80 in	39 in	Quilted	Cotton/Polyester	Polyester	Basics	**45YJ79**	6
Full XL	Mattress	80 in	54 in	Quilted	Cotton/Polyester	Nonwoven Fabric	Basics	**45YJ78**	6
Queen	Mattress	80 in	60 in	Quilted	Cotton/Polyester	Polyester	Basics	**45YJ80**	6
King	Mattress	80 in	78 in	Quilted	Cotton/Polyester	Polyester	Basics	**45YJ81**	6
Pillow Protector									
Standard	Allergies, Bed Bugs, Dust Mites, Pet Dander, Waterproof	21 in	27 in	—	Vinyl	Plastic	Dmi	**34KX94**	1
Standard	Allergies, Waterproof	21 in	27 in	—	100% Polyester	Polyester	Dmi	**34KX95**	1

12H838

LOCK-UP®

Bedding Encasements

Lock-Up pillow, mattress, and box spring encasements trap any existing bed bugs and keep invading bugs out. Pillow and mattress covers also protect against allergens and dust mites, and have soft, breathable fabric for comfortable, sound sleep. Pillow cover is water-resistant. Premium mattress covers have a waterproof lining and feature a double-zipper enclosure for added protection. Standard mattress covers have a waterproof top and also feature a double-zipper enclosure. Box spring covers are durable stretch knit with double-knit corners for snag protection.

Size	Fabric	L	W	Item No.
Premium				
Twin	Terrycloth	75 in	39 in	**12H838**
Twin XL	Terrycloth	80 in	39 in	**12H839**
Full	Terrycloth	75 in	54 in	**12H840**
Queen	Terrycloth	80 in	60 in	**12H841**
King	Terrycloth	80 in	78 in	**12H842**
Standard				
Twin	Stretch Knit	75 in	39 in	**38F610**
Twin XL	Stretch Knit	80 in	39 in	**38F611**
Full	Stretch Knit	75 in	54 in	**38F612**
Queen	Stretch Knit	80 in	60 in	**38F613**
King	Stretch Knit	80 in	76 in	**38F614**
Box Spring				
Twin	Stretch Knit	75 in	39 in	**12H834**
Twin XL	Stretch Knit	80 in	39 in	**12H835** *
Full	Stretch Knit	75 in	54 in	**12H836**
Queen	Stretch Knit	80 in	60 in	**12H837**
Pillowcase				
Standard	Velvet	26 in	20 in	**12H843**

** For King size, use 2 TwinXL encasements.*

Bed Pads

Foam bed pads are latex-free and plush, protecting the mattress while supporting the back. They also create a firmer feel to mattresses and provide an environment of comfort and support. Ideal for use in the medical, hospitality and rehabilitation industries.

DMI Duro-Med Industries

L	W	Thickness	Item No.
72"	33"	4"	**36ED94**
78"	56"	2"	**36ED96**

Allis Bed Sets

- Includes box spring
- Woven fabric outer cover
- Taupe color

Two-sided mattresses and foundations have long-term durability and components that meet up to 150,000 cycles. Pre-compressed, gel-infused foam inserts help to minimize body impressions in the mattresses. They also have no-skid foundation tops for easy housekeeping.

Plush
61DR46

Firm
61DR38

Size	Mattress Height	Box Spring Height	Overall Length	Overall Width	Overall Height	Coil Count	Plush Item No.	Firm Item No.
Twin	11"	9"	75"	38"	20"	300	**61DR46**	**61DR38**
Twin XL	11"	9"	80"	38"	20"	324	**61DR47**	**61DR39**
Full	11"	9"	75"	54"	20"	425	**61DR48**	**61DR40**
Full XL	11"	9"	80"	53"	20"	459	**61DR49**	**61DR41**
Queen	11"	9"	80"	60"	20"	540	**61DR50**	**61DR42**
King	11"	9"	80"	76"	20"	702	**61DR51**	**61DR43**
Hotel King	11"	9"	80"	72"	20"	648	**61DR53**	**61DR45**
California King	11"	9"	83"	72"	20"	696	**61DR52**	**61DR44**

Decorah Firm Bed Sets

- Includes box spring
- Woven fabric outer cover
- Gray color

These mattresses and foundations are specially developed for commercial purposes to provide enhanced support to guests in any sleeping position and feature 1" super-soft gel foam surface.

Plush
61DR52

Firm
61DR54

Size	Mattress Height	Box Spring Height	Overall Length	Overall Width	Overall Height	Coil Count	Plush Item No.	Firm Item No.
Twin	12"	9"	75"	38"	21"	325	**61DR62**	**61DR54**
Twin XL	12"	9"	80"	38"	21"	351	**61DR63**	**61DR55**
Full	12"	9"	75"	54"	21"	500	**61DR64**	**61DR56**
Full XL	12"	9"	80"	53"	21"	540	**61DR65**	**61DR57**
Queen	12"	9"	80"	60"	21"	594	**61DR66**	**61DR58**
King	12"	9"	80"	76"	21"	783	**61DR67**	**61DR59**
Hotel King	12"	9"	80"	72"	21"	729	**61DR69**	**61DR61**
California King	12"	9"	83"	72"	21"	783	**61DR68**	**61DR60**

Evington Firm Bed Sets

- Includes box spring
- Woven fabric outer cover
- Taupe color

Bed sets feature a high-performance, foam-encased edge system to support sitting and sleeping. The twice-tempered coils will maintain approximately 98% of their height over the lifetime of the mattress. Open coil unit is supportive, comfortable, lightweight and easy to handle. The gel-infused foam inserts help to promote a cool, restful sleep. A no-skid foundation keeps mattress in place for easier housekeeping.

Plush
61DR22

Firm
61DR14

Size	Mattress Height	Box Spring Height	Overall Length	Overall Width	Overall Height	Coil Count	Plush Item No.	Firm Item No.
Twin	12"	9"	75"	38"	21"	300	**61DR22**	**61DR14**
Twin XL	12"	9"	80"	38"	21"	324	**61DR23**	**61DR15**
Full	12"	9"	75"	54"	21"	425	**61DR24**	**61DR16**
Full XL	12"	9"	80"	53"	21"	459	**61DR25**	**61DR17**
Queen	12"	9"	80"	60"	21"	540	**61DR26**	**61DR18**
King	12"	9"	80"	76"	21"	702	**61DR27**	**61DR19**
Hotel King	12"	9"	80"	72"	21"	648	**61DR29**	**61DR21**
California King	12"	9"	83"	72"	21"	696	**61DR28**	**61DR20**

Bed Frames

WEHSCO BY MANTUA MFG. CO.

Wedge-lock leg design makes the frame stronger as weight is applied. The 1¾" high-carbon ribbed steel side rails easily support mattress and box spring. Set up is quick and easy without any tools.

Size	L	W	H	Steel Stem Glides Item No.	Rug Roller Wheels Item No.	Plastic Glides Item No.
Twin	71"	39"	7¼"	**31XT49**	**31XT55**	—
Twin/Full/Queen	70"	39"	7¼"	—	—	**31XT45**
Full	71"	53"	7¼"	**31XT50**	**31XT56**	—
Queen	71"	60"	7¼"	**31XT52**	**31XT57**	—
Queen	70"	60"	7¼"	—	—	**31XT47**
Queen/King	70"	60"	7¼"	—	—	**31XT48**
King	71"	76"	7¼"	**31XT54**	**31XT59**	—
California King	71"	72"	7¼"	**31XT53**	**31XT58**	—

31XT55

469C25

35ME93

35ME96

Inflatable Beds

Feature extra-durable, puncture-resistant construction and turbo-speed built-in pump (except 469C25, 469C26, and 469C27) that provides fast and easy inflation. Provide automatic shutoff when bed is fully inflated. Exclusive oversized rapid release valve deflates bed in seconds. Reinforced bed construction keeps air distributed evenly all night. Roll up and store conveniently in oversized carrying bag. Include machine washable mattress cover.

Replacement Pumps—For use with Boston and Coleman double lock and pinch valves.

Description	Weight Capacity	Includes	L	W	H	Item No.
Quickbed®						
Twin	300 lb	Antimicrobial Sleep Surface, Textured Sides	73 in	38 in	8 in	**469C25**
Full	600 lb	Antimicrobial Sleep Surface, Textured Sides	73 in	53 in	8 in	**469C27**
Queen	600 lb	Antimicrobial Sleep Surface, Textured Sides	78 in	58 in	8 in	**469C26**
Supportrest™						
Queen	600 lb	120V Pump	78 in	60 in	18 in	**35ME88**
Queen	600 lb	Built-In 120V Pump, Zippered Carry Bag	78 in	60 in	18 in	**35ME93**

Includes	Power Requirements	Item No.
Replacement Pumps		
120V Charger, Adapters for Boston/ Coleman Double Lock and Pinch Valves	120V AC	**35ME96**
6 ft Power Cord, Adapters for Boston/ Coleman Double Lock and Pinch Valves	120V AC	**35ME97**
9 ft Power Cord, Adapters for Boston/ Coleman Double Lock and Pinch Valves	12V DC	**35ME98**
Adapters for Boston/Coleman Double Lock and Pinch Valves	(4) D Cell Batteries	**35ME99**

33RU91

25UM01

Sealed Institutional Mattresses

Feature a fully-sealed, antimicrobial, and hypoallergenic cover and strong RF welds to keep out fluids and other contaminants. Cover is vented to help prevent moisture buildup. Mattresses with clear vinyl cover hinder contraband concealment. Ideal for the specific needs of prisons, shelters, and healthcare.

Maximum User Weight	Core Material	L	W	H	Color	Fire Barrier Protection Yes Item No.	Fire Barrier Protection No Item No.
C-Matt Bariatric 500 Mattress							
500 lb	Foam	80 in	54 in	7 in	Navy/Gray	**33RV29**	**33RV28**
		84 in	48 in	7 in		**33RV27**	**33RV26**
		84 in	54 in	7 in		**33RV31**	—
C-Matt Bariatric 900 Mattress							
900 lb	Foam	80 in	54 in	7 in	Navy/Gray	**33RV45**	**33RV44**
		84 in	48 in	7 in		**33RV43**	**33RV42**
		84 in	54 in	7 in		**33RV47**	**33RV46**
C-Matt Basic Mattress, Reversible							
350 lb	Foam	76 in	35 ½ in	6 in	Navy/Gray	**33RV11**	**33RV10**
		80 in	35 ½ in	6 in		**33RV13**	**33RV12**
		84 in	35 ½ in	6 in		**33RV15**	**33RV14**
C-Matt Basic Plus Mattress, Reversible							
350 lb	Foam	76 in	35 ½ in	6 in	Navy/Gray	**33RV05**	**33RV04**
		80 in	35 ½ in	6 in		**33RV07**	**33RV06**
		84 in	35 ½ in	6 in		**33RV09**	**33RV08**
C-Matt Comfort Mattress							
350 lb	Foam	76 in	35 ½ in	6 in	Navy/Gray	**33RU98**	**33RU97**
		80 in	35 ½ in	6 in		**33RV01**	**33RU99**
		84 in	35 ½ in	6 in		**33RV03**	**33RV02**
C-Matt Comfort Ultima Mattress, Reversible							
350 lb	Foam	76 in	35 ½ in	6 in	Navy/Gray	**33RU92**	**33RU91**
		80 in	35 ½ in	6 in		**33RU94**	**33RU93**
		84 in	35 ½ in	6 in		**33RU96**	**33RU95**

Maximum User Weight	Core Material	L	W	H	Color	Fire Barrier Protection Yes Item No.	Fire Barrier Protection No Item No.
C-Matt Densified Polyester w/Pillow							
350 lb	8 oz Polyester	75 in	36 in	4 in	Ocean Blue	—	**25UM07**
	10 oz Polyester	75 in	25 in	4 in		—	**25UM01**
		75 in	30 in	4 in		—	**25UM05**
		80 in	36 in	4 in		—	**25UM13**
C-Matt Sealed Densified Polyester Core, Reversible							
350 lb	8 oz Polyester	75 in	25 in	4 in	Clear	—	**25UL83**
		75 in	25 in	4 in	Ocean Blue	—	**25UL82**
		75 in	30 in	4 in		—	**25UL86**
		75 in	36 in	4 in	Clear	—	**25UL91**
		75 in	36 in	4 in	Ocean Blue	—	**25UL90**
		80 in	36 in	4 in		—	**25UL94**
	10 oz Polyester	75 in	25 in	4 in		—	**25UL84**
		75 in	30 in	4 in	Clear	—	**25UL89**
		75 in	30 in	4 in	Ocean Blue	—	**25UL88**
		75 in	36 in	4 in	Clear	—	**25UL93**
		75 in	36 in	4 in	Ocean Blue	—	**25UL92**
C-Matt Sealed Foam Core, Reversible							
350 lb	Foam	75 in	25 in	4 in	Ocean Blue	**25UL73**	—
		75 in	30 in	4 in		**25UL75**	**25UL74**
		76 in	36 in	5 in		**25UL77**	—
		80 in	36 in	5 in		**25UL79**	**25UL78**
		84 in	36 in	5 in		**25UL81**	—

G5711

H8905

Institutional Bunks and Beds

- Polyethylene construction

Feature durable, one-piece, rotationally-molded design for increased strength. These beds are easy to clean and maintain and are stain-resistant. Ideal for use in correctional and behavioral health facilities, residential institutions, and public safety facilities. Endurance Bunk has molded-in side slots for property box storage and can be reverse-mounted to eliminate property box storage feature. Endurance Bed 2.0 is designed with lower side rails that help make entry and exit easier, and end shelving provides open storage for personal items.

Description	▶CHOOSE: Color	L	W	H	Mfr. Model	Item No.
Endurance Bunk	Black, Blue, Brown, Green	80 in	30 in	21 in	7601	**G5711**
Endurance Bed 2.0	Black, Blue, Brown, Gray, Green	85 in	41 in	24 in	7801	**H8905**

martex Five Star Hotel Collection R&R R&R Textile Mills Inc. Supplier Diversity

Towels

CAM BORDER

Blended cam border increases wear life, reduces replacement costs, and improves a room's appearance. Polyester/cotton base with cotton loops.

DOBBY BORDER

Woven dobby border provides durability, reduces replacement costs, and adds a decorative touch to your towels.

MARTEX SOVEREIGN

Blended terrycloth has soft, absorbent ring-spun cotton loops and a long-lasting cotton/poly blend underweave. Wash Towels have hemmed edges for comfortable use. Other styles have lock-stitched, bar-tacked hems on all 4 sides for added strength and style.

MARTEX BRENTWOOD

Combine luxury and affordability in a 100% ring-spun cotton dobby border ensemble. Provide a welcome reminder of home. Ecru towels feature Stay Bright bleach-friendly, fade-resistant technology.

Cam Border

Dobby Border

Hand and Wash Towels

Bath Mat

					WHITE		ECRU/BEIGE	
W	L	Material	Weight	Brand	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Cam Border								
Wash Cloth								
12 in	12 in	14% Polyester, 86% Cotton	1 lb	R & R Textile	**38X621**	12	—	—
12 in	12 in	86% Cotton; 14% Polyester	1 lb	R & R Textile	**5NWP3**	12	**5NWR2**	12
12 in	12 in	100% Cotton	1 lb	R & R Textile	**5NWR9**	12	—	—
12 in	12 in	100% Cotton	0.75 lb	R & R Textile	**5NWT0**	12	—	—
12 in	12 in	Cotton/Polyester	1 lb	Martex	**34AZ76**	12	**34AZ77**	12
Hand Towel								
16 in	27 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	3.5 lb	Martex	**15V537**	24	—	—
16 in	27 in	14% Polyester, 86% Cotton	3 lb	R & R Textile	**38X620**	12	—	—
16 in	27 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	3 lb	Martex	**11W235**	24	**11W239**	24
16 in	27 in	86% Cotton; 14% Polyester	3 lb	R & R Textile	**5NWP2**	12	**5NWR1**	12
16 in	27 in	100% Cotton	2.75 lb	R & R Textile	**5NWR8**	12	—	—
Bath Mat								
20 in	30 in	14% Polyester, 86% Cotton	7 lb	R & R Textile	**5NWP4**	12	**5NWR3**	12
20 in	30 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	7 lb	Martex	**11W237**	12	**11W241**	12
21 in	34 in	100% Cotton	10 lb	R & R Textile	**5NWN8**	12	**5NWP9**	12
Bath Towel								
20 in	40 in	86% Cotton; 14% Polyester	6 lb	R & R Textile	**5NWP1**	12	—	—
20 in	40 in	100% Cotton	5 lb	R & R Textile	**5NWR7**	12	—	—
22 in	44 in	100% Cotton	6 lb	R & R Textile	**5NWR6**	12	—	—
24 in	48 in	100% Cotton	8 lb	R & R Textile	**5NWR5**	12	—	—
24 in	48 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	8 lb	Martex	**15V536**	12	—	—
24 in	48 in	86% Cotton; 14% Polyester	8 lb	R & R Textile	**5NWP0**	12	—	—
24 in	50 in	86% Cotton; 14% Polyester	10.5 lb	R & R Textile	**5NWN9**	12	**5NWR0**	12
24 in	50 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	10½ lb	Martex	**11W234**	12	**11W238**	12
24 in	50 in	100% Cotton	10 lb	R & R Textile	**5NWR4**	12	—	—
24 in	50 in	14% Polyester, 86% Cotton	10.5 lb	R & R Textile	**38X619**	12	—	—
24 in	54 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	12½ lb	Martex	**15V538**	12	—	—
25 in	54 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	13½ lb	Martex	**15V535**	12	—	—
Dobby Border								
Wash Cloth								
12 in	12 in	Cotton/Polyester	1 lb	Martex Sovereign	**34AZ82**	12	**34AZ84**	12
13 in	13 in	100% 2 Ply Combed Cotton	1.7 lb	5 Star Hotel Collection	**38W337**	48	—	—
13 in	13 in	100% Cotton	4.5 lb	R & R Textile	**5NWN7**	12	—	—
13 in	13 in	100% Cotton	1.5 lb	R & R Textile	—	—	**5NWP8**	12
13 in	13 in	Cotton	1½ lb	Martex Brentwood	**34AZ78**	12	**34AZ79**	12
13 in	13 in	Cotton	1¾ lb	Martex Brentwood	**34AZ80**	12	**34AZ81**	12
13 in	13 in	Cotton/Polyester	1½ lb	Martex Sovereign	**34AZ83**	12	**34AZ85**	12
Hand Towel								
16 in	27 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	3 lb	Martex Sovereign	**15V553**	24	**15V562**	24
16 in	30 in	100% 2 Ply Combed Cotton	4.5 lb	5 Star Hotel Collection	**38W336**	24	—	—
16 in	30 in	100% Cotton	4.5 lb	R & R Textile	**5NWN6**	12	**5NWP7**	12
16 in	30 in	100% Cotton	4½ lb	Martex Brentwood	**11W243**	24	**11W247**	24
16 in	30 in	100% Cotton	5¾ lb	Martex Brentwood	—	—	**15V547**	24
16 in	30 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	4 lb	Martex Sovereign	**15V554**	24	**15V563**	24
Bath Mat								
20 in	34 in	100% Cotton	10 lb	Martex Brentwood	**11W245**	12	**11W249**	12
20 in	34 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	10 lb	Martex Sovereign	**15V559**	12	**15V568**	12
Bath Towel								
27 in	50 in	100% Cotton	14 lb	R & R Textile	**5NWN5**	12	**5NWP6**	12
27 in	50 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	14 lb	Martex Sovereign	**15V556**	12	**15V565**	12
27 in	50 in	100% Cotton	14 lb	Martex Brentwood	**11W244**	12	**11W248**	12
24 in	50 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	10½ lb	Martex Sovereign	**15V555**	12	**15V564**	12
27 in	54 in	100% Cotton	15 lb	Martex Brentwood	**15V543**	12	**15V548**	12
27 in	54 in	100% Cotton	17 lb	Martex Brentwood	**15V544**	12	**15V549**	12
27 in	54 in	100% Cotton Loops, 50/50 Polyester/Cotton Base	17 lb	Martex Sovereign	**15V557**	12	**15V566**	12
27 in	54 in	100% Cotton	17 lb	R & R Textile	**5NWN4**	12	**5NWP5**	12
30 in	56 in	100% 2 Ply Combed Cotton	18 lb	5 Star Hotel Collection	**38W335**	12	—	—
Bath Sheet Towel								
30 in	60 in	100% Cotton	20 lb	Martex Brentwood	**15V545**	12	**15V550**	12
35 in	66 in	100% Cotton	20½ lb	Martex Sovereign	**15V558**	12	**15V567**	12

5NWT2

D5706

H3911

38X623

R&R
R&R Textile Mills Inc.
martex

Pool and Exercise Towels

Front and back plied-loop ring-spun cotton yarns provide plushness and enhanced absorbency. Hems are lock-stitched and bar-tacked for longer life and less fraying. Solid color pool towels feature Stay Bright bleach-friendly, fade-resistant technology.

W	L	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
100% Cotton - Pool Towel					
20 in	40 in	White with Stripe	R & R Textile	**5NWT3**	12
22 in	44 in	White with Stripe	R & R Textile	**5NWT2**	12
30 in	54 in	Green Ice, Persimmon, Violet, Yellow	Martex	**D5706**	12
30 in	70 in	Blue/White Stripe, Peach/White Stripe, Yellow/White Stripe, Jade/White Stripe	Martex	**D5705**	12
100% Cotton Loops, 50/50 Polyester/Cotton Base - Pool Towel					
20 in	40 in	Blue Center Stripe	Martex	**11W250**	12
24 in	50 in	White w/Blue Double Dobby	Martex	**38W334**	12
30 in	66 in	Dark Linen, White, Dark Linen/White Stripe	Martex	**H3911**	12
14% Polyester, 86% Cotton - Exercise Towel					
11 in	44 in	White	R & R Textile	**38X623**	12

Elegance Series

Riviera Series

LACEY MILLS

Bath Rugs

White cotton rugs with rounded corners, make the perfect compliment to any bathroom.

Description	Backing	24 inL x 17 inW Item No.	34 inL x 21 inW Item No.	36 inL x 24 inW Item No.	40 inL x 24 inW Item No.
Elegance Series					
28 oz Per Dozen ⅝" cut pile	Cotton Duck	**11K035**	—	**11K039**	—
Essence Series					
19 oz Per Dozen ⅜" cut pile	Cotton Duck	**11K017**	**11K019**	**11K021**	—
19 oz ⅜" cut pile	Cotton Duck	—	—	—	**20UM86**
Riviera Series					
18 oz Per Dozen ½" cut pile	Latex	—	**11K023**	—	—

Rubbermaid Commercial Products

Shower and Bath Mats

- Pkg. of 12

Latex-free mats feature a textured surface to prevent slipping and a suctioned backing to keep it firmly in place.

Item	W	L	Color	Item No.
Bath Mat	14 in	22 ½ in	White	**52YX14**
Bath Mat	16 in	28 in	White	**52YX17**
Bath Mat	18 in	36 in	White	**52YX18**

3NZP8

3NZP9

3NZN7

3NZP2

TAYLOR

Bath Scales

Digital and analog scales offer accuracy with easy-to-read dials.

Cap.	Includes	Weighing Units	Weighing Surface Width	Weighing Surface Depth	Scale Graduations	Model	Item No.
Digital Bath Scales							
180kg/400 lb	1¼ in LCD, Batteries	kg, lb	13 in	1 ½ in	0.1kg/0.2 lb	74074102	**3NZP8**
180kg/400 lb	1 in LCD, Batteries	kg, lb	14 ¼ in	2 ¼ in	0.2kg/0.5 lb	75064192	**3NZP9**
180kg/400 lb	Batteries	kg, lb	11 ⅞ in	11 ⅞ in	0.09kg/0.2 lb	7558	**53DL82**
Mechanical Bath Scales							
136kg/300 lb	White Mat	kg, lb	10 ½ in	10 ¼ in	1kg/2 lb	20044014EXP	**3NZN7**
300 lb	Black Mat	lb	11 ½ in	10 ¹³⁄₁₆ in	2 lb	48325072	**3NZP2**

1600W
Handheld

1875W
Soft Surface

1875W
Ionic Cord-Keeper

1600W
Wall-Mount

CONAIR HOSPITALITY Hospitality 1 Source, LLC

Hair Dryers

Convenient, powerful, compact dryers easily store or can be wall-mounted. Night Light models feature a LED light that can help facilities reduce cost when used as a night light.

Description	Color	Voltage	Cord Length	No. of Speeds	Std.	Brand	Item No.
Handheld							
1,600 W Watt	White	125 V	5 ft	2	ETL	Conair	**6GAL9**
1,600 W Watt	Black	125 V	5 ft	2	ETL	Conair	**6GAM0**
1,875 W Watt	White	125 V	5 ft	2	ETL	Conair	**6GAM3**
1,875 W Watt	Black	125 V	6 ft	2	ETL	Conair	**6GAM4**
1,875 W Watt Soft Surface	Black	125 V	5 ft	2	UL	Conair	**6GAM5**
1,875 W Watt Ionic Cord-Keeper	White	125 V	5 ft	2	UL	Conair	**6GAM6**
1,875 W Watt Ionic Cord-Keeper	Black	125 V	5 ft	2	UL	Conair	**6GAM7**
Wall Mounted							
1,600 W Watt	White	125 V	34 in	2	UL	Conair	**6GAM1**
1,600 W Watt	Black	125 V	34 in	2	UL	Conair	**6GAM2**
Hair Dryer Bag							
12 in x 12 in, Cotton/Poly Twill	Black	—	—	—	—	Hospitality 1 Source	**41H540**

Hair Dryer Bag

16W504

33F188

33F189

SINGER CONAIR HOSPITALITY

Electric Irons and Steamers

Electric Irons—Steam irons provide vertical and horizontal steam bursts. Auto-Off. Expert Finish has 9 temperature settings with electronic LCD control. 1700W. 2-Way models automatically reduce sole plate temperature if iron is not moved while in vertical position for 3 min. Adjustable temperature and steam controls.

- 1700W (Expert Finish); 1100W (2-Way)
- Self-cleaning
- Spray mist

Cord-Keeper Electric Steam Irons—Feature adjustable temperature control, nonstick soleplate, and anti-drip function to help reduce spills and conserve water. Safety auto shutoff feature turns iron off when left horizontal for 30 sec., vertical for 8 min. Cord retracts for easy storage.

- 1400W
- Self-cleaning
- Spray and burst of steam

Description	Water Cap.	Power Cord Length	Weight	Brand	Item No.
Electric Irons					
Expert Finish	1.5 mL	7 ¾ ft	2.9 lb	Singer	**16W504**
Cord-Keeper Steam Irons					
White	200 mL	8 ft	3.3 lb	Conair	**33F188**
Black	200 mL	8 ft	3.3 lb	Conair	**33F189**

Folding Tabletop

Ironing Boards

honey can do INTERNATIONAL   Hospitality 1 Source, LLC

Tabletop Ironing Board—Smaller size is easy to transport and stow. Board folds flat.

Ironing Board Covers—Scorch- and stain-resistant covers have elastic banding for a snug fit. All others are all-in-one covers and pads.

Description	L	W	Brand	Item No.
Tabletop Ironing Boards				
Folding Tabletop - Includes (1) Cover Pad, Iron Rest	32 in	12 in	Honey-Can-Do	**5DMN7**
Ironing Board Covers				
Standard for Moderate Use (1-5 times per month)				
Scorch-Resistant, $\frac{3}{16}$" fiber backed - Blue	55 in	15 in	Hospitality 1 Source	**41H538**
Scorch-Resistant, $\frac{3}{16}$" fiber backed - Tan	55 in	15 in	Hospitality 1 Source	**41H539**

honey can do INTERNATIONAL

15V298

15V312

Hampers

Wide selection of styles accommodates almost every decor and laundry need.

Description	Material	Dimensions	Item No.
Pop-Open Hampers			
Black	Nylon Mesh	28 inH x 27 inW x 18 ½ inL	**15V305**
Black	Steel/Mesh	24 inH x 19 inW x 19 inL	**15V298**
Resin Hampers			
1-Compartment	Resin	22 inH x 14 inW x 14 inL	**15V312**
2-Compartment	Mesh/Resin	26 inH x 24 inW x 24 inL	**15V310**
Wicker Hampers			
Square with Cover	Steel/Wicker	26 inH x 13 ½ inW x 13 ¾ inL	**15V314**

5DMN3

15V327

15V330

Laundry and Wash Bags

honey can do INTERNATIONAL

Item	Material	Overall Length	Overall Width	Color	Item No.
Laundry Bags, Drawstring Closure					
Mesh Laundry Bag	Mesh	36 in	24 in	Blue	**15V325**
Mesh Laundry Bag	Mesh	36 in	24 in	White	**5DMN3**
Mesh Laundry Bag	Mesh	36 in	24 in	Green	**5DMN4**
Mesh Wash Bags, Zipper Closure					
Sweater Wash Bag	Mesh	23 in	22 in	White	**15V327**
Lingerie Wash Bag	Mesh	18 in	12 in	White	**15V328**
Bra Wash Bag	Mesh	7 in	4 ½ in	White	**15V330**
Wash Bag Set (1) Sweater Bag, (2) Lingerie Bags	Mesh	10 in, 20 in	18 in, 24 in	White	**15V331**

Wooden

Plastic

Clothespins and Clotheslines

honey can do INTERNATIONAL

Description	H	W	L	Item No.	Pkg. Qty.
Clothespins, Up to 10 lb per Pin					
Wooden	½ in	$\frac{13}{32}$ in	3 $\frac{19}{64}$ in	**5DML7**	24
Wooden	½ in	$\frac{13}{32}$ in	3 $\frac{19}{64}$ in	**5DML8**	50
Plastic	½ in	$\frac{13}{32}$ in	3 $\frac{19}{64}$ in	**5DMN1**	50
Plastic	½ in	$\frac{13}{32}$ in	3 $\frac{19}{64}$ in	**5DMN2**	100
Clotheslines					
Retractable Clothesline	—	—	8 ft.	**15V282**	1
Retractable Clothesline	—	—	40 ft.	**15V283**	1

15V334

15V335

Lint Brush and Fabric Shaver

honey can do INTERNATIONAL

Lint brush and fabric shaver are designed to keep clothing items and fabrics free of lint, dust, and pet hair. They are suitable for use on pants, coats, sweaters, dresses, suits, formal wear, and furniture. Fabric shaver requires (2)AA batteries (not included).

Item	Color	Item No.
Double Sided Lint Brush	Green	**15V334**
Battery Powered Fabric Shaver	White	**15V335**

45NG76

5RZU9

5RZT8

Coat Racks

Organization and storage for use in restaurants, storage rooms, coatrooms, or hotel closets.

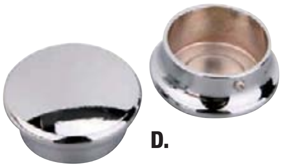
H (in.)	D (in.)	W (in.)	Holds	Item No.
Approved Vendor Aluminum/Steel with 7 in" Base Dia.				
7 in	3 ¾ in	36 in	Up to 12 Garments	**45NG76**
CSL Wood with Hanging Bar				
10 ½ in	12 ¾ in	30 in	Up to 15 garments	**5RZU8**
10 ½ in	12 ¾ in	36 in	Up to 18 Garments	**5RZU9**
CSL Zinc with Hanging Bar				
17 in	14 ¾ in	24 in	Up to 12 Garments	**5RZT8**
17 in	14 ¾ in	30 in	Up to 15 garments	**5RZT9**
17 in	14 ¾ in	36 in	Up to 18 Garments	**5RZU0**
17 in	14 ¾ in	48 in	Up to 24 garments	**5RZU1**

A.

B.

C.

F.



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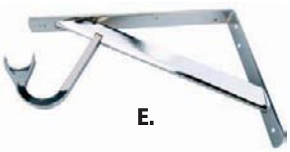


E.

John Sterling

Standard Closet Hardware

Key	Color	L (in.)	Max. Rod Dia. (in.)	Load Cap. (lb.)	Item No.	Pkg. Qty.
Heavy-Duty Closet Poles						
A	White	48 in	1 ¼ in	—	**5EAC7**	1
A	White	72 in	1 ¼ in	—	**5EAC8**	1
A	White	96 in	1 ¼ in	—	**5EAC9**	1
A	Chrome	72 in	1 5⁄16 in	—	**5EAD5**	1
A	Chrome	96 in	1 5⁄16 in	—	**5EAD6**	1
Closet Rods						
B	Platinum	30 to 48 in	1 in	—	**5EAD0**	1
B	Platinum	48 to 72 in	1 in	—	**5EAD1**	1
B	Platinum	72 to 120 in	1 in	—	**5EAD2**	1
Pole Sockets						
C	White	2 7⁄16 in	1 ⅜ in	—	**5EAD3**	2
C	Chrome	⅞ in	1 5⁄16 in	—	**5EAD7**	2
End Caps						
D	Chrome	3⁄16 in	1 5⁄16 in	—	**5EAD8**	2
Shelf and Rod Brackets						
E	Chrome	11¼ in	1 5⁄16 in	500	**5EAD9**	1
E	White	14 in	1 5⁄16 in	500	**6UDG8**	1
E	White	11 in	1 5⁄16 in	250	**6UDG7**	1
E	White	12½ in	1 ⅜ in	250	**6UDG6**	1
E	White	12 9⁄16 in	1 ⅜ in	200	**6UDK4**	1
Shelf and Rod Bracket Hardware, Screws and Caps						
F	White		—	—	**5EAD4**	8

6UDJ1

6UDJ6

6UDJ3

John Sterling

Track Mount Closet Storage System

Color	L (in.)	W (in.)	H (in.)	Load Cap. (lb.)	Brand	Item No.
Dual Slot Standard Track						
White	48½ in	1 in	⅝ in	—	—	**6UDJ1**
Standard Shelf Brackets						
White	11½ in	½ in	2 3⁄16 in	170	—	**6UDJ3**
White	14⅞ in	½ in	2 3⁄16 in	115	—	**6UDJ4**
White	19¼ in	½ in	3 3⁄16 in	180	—	**6UDJ5**
Hang Track						
White	40 in	1 ¼ in	⅜ in	1,000	—	**6UDJ6**
White	80 in	1 ¼ in	⅜ in	2,000	—	**6UDJ7**
Fasteners						
White	2½ in	3⁄16 in	—	—	John Sterling	**6UDK3**

can honey do INTERNATIONAL

D7951

Wood Suit and Shirt Hangers

Solid hardwood hangers feature a swiveling hook. Contoured to prevent hanger marks and wrinkling of garments. Suit hangers have a trouser bar to hold coordinating suit pants.

▶CHOOSE: Finish	Item No.	Pkg. Qty.
Non-Slip Suit Hangers		
Maple, Cherry	**D7951**	24
Shirt Hangers		
Cherry	**15V340**	5

15V357

15V358

can honey do INTERNATIONAL

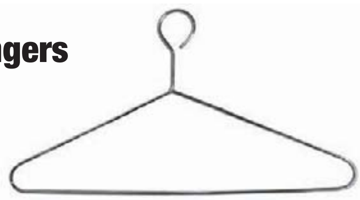
Plastic Hangers

Economical, convenient hangers can be used on any standard-size hanging bar or garment rack.

Description	Finish	Item No.	Pkg. Qty.
Tubular	White	**15V357**	15
Heavyweight	White	**15V362**	3
Recycled Plastic	Black	**15V358**	15
Recycled Plastic	White	**15V361**	15

Closed-Hook Hangers

Feature 18-ga. tubular steel bright chrome finish. Hangers are not removable from rack and prevent theft.



Finish	Item No.	Pkg. Qty.
Chrome	**5DYC0**	12

Scan. Order. Done.
Details on page A1.

38X953

38X958

Cardio Equipment

PROMAXIMA STRENGTH & CONDITIONING

Description	Mfr. Model	Item No.
Treadmills		
15 in HD LCD TV, 26 Programs, IPod Capabilities	CV-S25TXIA	**38X953**
26 Programs, IPod Capabilities, LCD Display	CV-S25T	**38X952**
Eliptical Machines		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, Standard Bio Stride, USB (Charge Only)	CV-S25E	**38X954**
15 in HD LCD TV, 17 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod Compatible, Standard Bio Stride, USB (Charge Only)	CV-S25EXIA	**38X955**
Indoor Training Bike		
Leather Brake Pad, PVC Dipped Grip Handlebar, Standard Emergency Stop, Standard Transport Wheels, Wellgo R12 Pedal	77100	**38X951**
Recumbent Bikes		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25R	**38X956**
15 in HD LCD TV, 16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod Compatible, USB (Charge Only)	CV-S25RXIA	**38X957**
Upright Bikes		
16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25U	**38X958**
15 in HD LCD TV, 16 Programs, Intelligent Touch Heart Rate System and Polar Telemetry Receiver, IPod compatible, USB (Charge Only)	CV-S25UXIA	**38X959**

Get More Online

Grainger has a **large selection of fitness equipment** including upper- and lower-body weight machines and versatile multi gym units. Visit Grainger.com and search **"Exercise Equipment."**

6PXR2

6PXR8

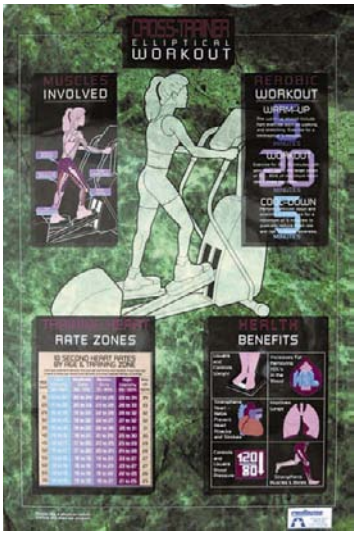
6PXT2

Weightlifting Equipment

PROMAXIMA STRENGTH & CONDITIONING

Add to the weight training section of your fitness center or gym with these weight plates and dumbbell sets. Weight plates are sold individually. 7-ft., 3-tier dumbbell rack holds up to 19 pairs of dumbbells. 2" x 2" heavy-wall steel construction with durable powder-coat finish. Small footprint requires minimal space.

Description	Mfr. Model	Item No.
Weight Plates		
2.5 lb	EZR-02.5	**6PXR4**
5 lb	EZR-05	**6PXR3**
10 lb	EZR10	**6PXR2**
25 lb	EZR-25	**6PXR1**
35 lb	EZR-35	**6PXR0**
45 lb	EZR-45	**6PXP9**
Dumbbell Sets		
(2) 10 lb, (2) 15 lb, (2) 20 lb, (2) 25 lb, (2) 5 lb	HEXR-SET6	**6PXR5**
(2) 10 lb, (2) 15 lb, (2) 20 lb, (2) 25 lb, (2) 30 lb, (2) 5 lb	HEXR-SET7	**6PXR6**
(2) 10 lb, (2) 15 lb, (2) 20 lb, (2) 25 lb, (2) 30 lb, (2) 35 lb, (2) 40 lb, (2) 45 lb, (2) 5 lb, (2) 50 lb	HEXR-SET1	**6PXR7**
(2) 10 lb, (2) 100 lb, (2) 15 lb, (2) 20 lb, (2) 25 lb, (2) 30 lb, (2) 35 lb, (2) 40 lb, (2) 45 lb, (2) 5 lb, (2) 50 lb, (2) 55 lb, (2) 60 lb, (2) 65 lb, (2) 70 lb, (2) 75 lb, (2) 80 lb, (2) 85 lb, (2) 90 lb, (2) 95 lb	HEXR-SET	**6PXR8**
Dumbbell Racks		
Tier Dumbbell Rack 59 inL x 39 ¼ inW x 42 ½ inH	FW-233	**30PK93**
Tier Hex Dumbbell Rack 59 inL x 28 ¼ inW x 30 inH	FW-234L	**30PK94**
Benches		
Multi Purpose Workout Bench 48 inL x 26 inW x 42 inH	FW-150U	**6PXT2**
Sit Up Bench 48 inL x 18 inW x 21 inH	FW-32	**6PXT3**



6PXT7

6PXT6

6PXU1

6PXT8

6PXT5

PROMAXIMA STRENGTH & CONDITIONING · MEASURETEK QUALITY SCALES

Weightlifting Accessories

Description	Brand	Mfr. Model	Item No.
Medicine Rack Ball Set - Set Includes 6, 8, 10, 12 lb Balls	ProMaxima	MBSET	**6PXT6**
Physician Scale	ProMaxima	AC-SCALE	**6PXU1**
Exercise Posters - Set of 3	ProMaxima	CV-CHART	**6PXT7**
Agility Balls Set - Set Includes 55 cm, 65 cm, and 75 cm Balls	ProMaxima	Agility	**6PXT8**
Equipment Mat - 4 ft W x 6 ft L x ½ in Thickness	ProMaxima	MATS-1/2	**38X960**
Foldable Aerobic Mat - 2'W x 6'L x 2 in Thickness	ProMaxima	MATS-AEROBIC	**6PXT5**
Physician's Scale	MeasureTek	12R995	**12R995**

Basketball Backstops and Backboards

Description	Backboard Dims. H	W	Thickness	Backboard Material	Rim Style	Item No.
Residential Portable Systems						
Backstop	32 in	54 in	¼ in	Acrylic	Arena Slam	12R320
Backstop	38 in	60 in	¼ in	Tempered Glass	Pro Image	12R319
Basketball Backboards						
Fiberglass Basketball Backboard	42 in	72 in	1 ¾ in	Fiberglass	—	12R309
Superglass Collegiate Basketball Backboard	42 in	72 in	2 ¼ in	Tempered Glass	—	12R288
Basketball Slammer Rims						
Slammer Competitor Positive Lock Breakaway Basketball Slammer Rim - Meets NCAA & NFHS Specifications						12R285
Basketball Gorilla Rims						
Roughneck Gorilla Fixed Basketball Gorilla Rim - Meets NFHS Specifications						12R286
Gymnasium Components						
115V AC Electric Winch (wire rope not included) - 1000 Pulling Capacity Single Line (Lbs.)						12R305
LynRus Aut-O-Loc Safety Belt for Backstops						12R304
Floor Cover Plate Assembly, 7 in Diameter						12R322
Ball Storage						
Basketball Rack - Holds 15 Basketballs						30D961

12R320

12R288

12R285

Athletic Balls and Storage

Description	Material	Brand	Item No.
Basketballs			
Indoor/Outdoor Basketball, Size 6	Composite Cover		45NL94
Indoor/Outdoor Basketball, Size 7	Rubber Cover	Champion Sports	45NL93
	Composite Cover		45NL92
Footballs			
Outdoor Football, Size 11.5	Water Resistant Pro Rubber	Champion Sports	45NM09
	Composite Cover		45NM08
Soccer Balls			
Indoor/Outdoor Soccer Ball, Size 5	Composite Cover	Champion Sports	45NM15
Volleyballs			
Indoor/Outdoor Volleyball, Size 8.25	Rubber Cover	Champion Sports	45NM18
	Composite Leather		45NM17
Playground Ball Set			
Indoor/Outdoor Playground Ball Set, Size 8.5	—	Champion Sports	45NM22
Baseballs			
Outdoor Baseball, Size 9	Syntex Leather Cover	Champion Sports	45NL96
Softballs			
Outdoor Softball, Size 12	Syntex Leather Cover	Champion Sports	45NL97
Tennis Balls			
Indoor/Outdoor Tennis ball, Size 3	—	Champion Sports	45NM30
Ball Storage			
Mesh Equipment Bag, Size 24 in x 36 in	Nylon Mesh		45NM07
Basketball Cart - Holds Up to 12 Basketballs			45NL89
Ball Cart - Holds Up to 30 Volleyballs		Champion Sports	45NM21
Physical Ed Sports Equipment Cart - Holds Up to 32 Basketballs, 40 Soccer Balls or Playground Balls, 150 Jump Ropes and 48 Hoops			45NL88
Basketball Rack - Holds 15 Basketballs	—	Spalding	30D961
Game Ball Locker - Holds Up to 12 Basketballs			45NL86
Game Ball Locker - Holds Up to 30 Basketballs, Soccer Balls or Playground Balls		Champion Sports	45NL87

45NL93

45NM18

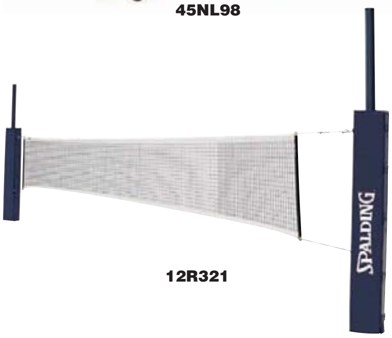
45NL96

45NL88 (Gym accessories not included)

Athletic Equipment and Accessories

Description	Brand	Item No.	Pkg. Qty.
Baseball			
Fielder's Glove, Leather	Champion Sports	45NL98	1
Base Set, Rubber, Includes Home Plate and 3 Bases	Champion Sports	45NM02	4
Base Set, Foam Filled, Nylon Covered Base Set	Champion Sports	45NM01	3
Base Set, Foam Filled, Quilted Covered Base Set	Champion Sports	45NL99	3
Home Plate, Waffle Bottom Rubber	Champion Sports	45NM06	1
Home Plate, Rubber	Champion Sports	45NM05	1
Youth Pitchers Plate, Rubber - 18 in x 4 in x 1 in	Champion Sports	45NM03	1
Official Size Pitcher's Plate, Rubber - 24 in x 6 in x 1 in	Champion Sports	45NM04	1
Basketball			
Basketball Goal Net, Nylon	Champion Sports	45NL90	1
Basketball Goal Net, Zinc Plated Steel Chain	Champion Sports	45NL91	1
Basketball Goal Net, Braided Nylon	Spalding	12R287	1
Volleyball			
Volleyball Net, 2.2mm Polyethylene Netting	Champion Sports	45NM19	1
Volleyball Net, 3mm Braided Polyethylene Netting	Champion Sports	45NM20	1
Volleyball Net with Rope Ratchets, and Net Tension Straps, Steel Dowels	Spalding	12R323	1
	Spalding	12R324	1
Aluminum Volleyball System with 2 Uprights, Antenna, Net, Padding	Spalding	12R321	1
Pumps			
12 in Hand Pump	Champion Sports	45NM14	1
11 in Double Action Air Pump	Champion Sports	45NM13	1
Electric Inflating Pump - ¼ hp	Champion Sports	45NM12	1
Accessories			
Inflating Needles, Pkg. of 2	Spalding	12R343	2
Scrimmage Vest - Orange, Pkg. of 12	Champion Sports	45NM10	12
Scrimmage Vest - Red, Pkg. of 12	Champion Sports	45NM11	12
Plastic Whistle with Lanyard	Spalding	12R344	1
Metal Whistle with Lanyard	Spalding	12R345	1
Multi-Sport Tabletop Indoor Electronic Scoreboard - 24 inL x 16 inH x 10 inD	Champion Sports	45NL95	1
Wall Padding, 18 oz Vinyl Cover Material	Spalding	12R307	1

45NL98



12R321

38H464

38H465

Folding Table Tennis Tables

Lighweight, portable indoor tables have an exceptionally sturdy and stable undercarriage. Feature a 25mm-thick black finish strong enough to endure every smash, loop, and flip a player makes. Easy to fold up, move and store. Ideal for any age and level of play.

Description	Folded Dimensions	Item No.
Table Tennis Table with (2) Paddle, 3 Ball Accessory Kit, Premium Net	36 in L x 60 in W x 63 in H	38H464
Tennis Table with (2) Paddle, (3) Ball, Post Clamps, Premium Net	36 in L x 60 in W x 63 in H	49JP36
Indoor/Outdoor Paddle and Ball Set	—	33TZ46
Table Tennis Accessory Kit	—	38H465
Table Tennis Conversion Top	—	6FZW2

6FZW3

34CT12

Air Hockey Tables

Brunswick—Features electronic scoring, exceptional speed of play, and slick, scuffproof surface. Aluminum/wood construction. Aluminum rails with powder-coated metal corners. Includes 2 mallets and 4 pucks.

Hathaway—Rich cherry wood-tone PVC laminated cabinet, scratch resistant high-gloss poly sealed playing surface with streamlined radius corners. Features sturdy pedestal style legs with independent 3" stabilizing Leg Levelers

Description	L	W	H	Brand	Item No.
Air Hockey Tables					
Full Size Table	83 in	41 in	30 ½ in	Brunswick	6FZW3
Full Size Table	72 in	36 in	31 in	Hathaway	34CR16
Full Size Table	60 in	29 ⅝ in	31 in	Hathaway	34CR27
Accessories					
Striker/Puck Set Includes (2) 3" Strikers and (2) 2½" Pucks				Hathaway	34CT12

34CR32

34CR64

Foosball Tables

Table features ½" thick reinforced L-shaped legs and chrome-plated ½" steel rods with easy-grip rubber handles, 3 goalie configuration with durable ABS molded players, 13 players per team, manual scoring system, and end ball return.

Description	Item No.
Foosball Tables	
Playoff Full-Size Table	34CR32
Sidekick Tabletop Game	34CR64

53DN21

53DN23

53DN22

53DN24

Dartboards and Darts

Electronic board features digital scoring with a push button control panel LED. Sisal board is constructed of self-healing fibers. Each include 2 sets of darts. Additional darts sold separately.

Board Style	Includes	Board Material	Open Height	Open Width	Open Depth	Mfr. Model	Item No.
Dartboards							
Electronic	(6) Soft Tip Darts	Plastic	22 ¾ in	20 ½ in	1 ⅛ in	BG1042D	53DN21
Sisal	(6) Steel Tip Darts	Sisal	18 in	18 in	1 ½ in	BG1043D	53DN22

For Use With	Includes	Features	Mfr. Model	Item No.
Tip Darts				
Electronic Dartboards	(3) Tips, (6) Flights, (6) Shafts, Carrying Case	Soft Tip, Sure Grip	BG1054	53DN23
Sisal Dartboards	(3) Tips, (6) Flights, (6) Shafts, Carrying Case	Steel Tip	BG1055	53DN24

34CR04

Premium Billiard Tables and Cloths

Provide great entertainment value for your guests, customers, or staff, these pool tables are ideal for use in hotel/motel game rooms or in other hospitality venues.

Billiard Table Cloths—Worsted wool imbedded with DuPont Teflon fabric protector does not pill or shed to maintain a clean, sleek playing surface. Fabric is 24 oz. per sq. yd. and 144 strands per inch.

Table Size	Table Finish	Pockets	Cloth Color	Cloth Type	W	H	Item No.
Billiard Tables							
3 ⅓ ft	Black	Netting Drop	Blue	Polyester/ Wool	21 ½ in	7 in	34CR58
7 ft	Black	Internal Ball Return	Blue	Wool/Nylon	48 in	32 in	34CR04
7 ft	Black Cherry Melamine	Plastic Drop	Black	Wool/Nylon	46 in	31 in	53DN27

▶CHOOSE: Color	For Use On	Item No.
Billiard Table Cloths		
Brunswick Green, Cardinal Red, Chocolate Brown, Ebony, Gun Metal Gray, McIntosh, Merlot, Midnight Blue, Olive, Regatta Blue, Sahara, Timberline	8 ft Pool Tables	D9488
	9 ft Pool Tables	D9489

Find More Online

For color swatches of available cloth options go to **Grainger.com** and search for "**Pool Table Cloths**".

Pool Care Troubleshooting Guide

Skin and Eye Irritation—Caused by improper pH levels of the water in your pool or spa, especially a pH level of below 7. Test the water pH level; adjust as needed to maintain the proper pH range of 7.2 to 7.6. Shock to destroy any contaminants.

Algae Problems—Test and adjust your pool or spa water pH level to 7.4. If you are seeing the beginning of algae growth, shock the water. Wait 24 hr. after shock and then use an algaecide.

Cloudy Water—Check the filter system and pump to make sure they are operating effectively. Check the filter for holes that are letting fine particulars pass through. Make sure you are running the filter long enough to clean your pool. Test water for total alkalinity and pH and adjust as needed. Check the chlorine level and check for the presence of dead algae. Shock the water. Use a clarifier for small particles that the filter does not catch.

Pool Chemicals

Keep water in hot tubs, whirlpools, and swimming pools crystal clear, clean, and healthy. Weekly monitoring with test kits ensures all water is balanced and safe for use in spas, hotels, and health clubs.

Balancers—Balancing your pool water ensures that it has an optimal pH level, including total alkalinity and mineral content levels.

Chlorine—Chlorinating your pool water properly sanitizes it, killing harmful bacteria and aiding in the control of algae.

Pool Shock—Water shocking formulas have algae killing crystals which control and kill off green, black, and mustard algae along with bacteria. Reduces chlorine odor and removes swimmer containments such as body oils, sweat, and urine. Shocking the water cleans cloudy water without impacting pH, helping the water stay clear. 494P18 is a 4 in 1 formula; kills bacteria, is suitable for vinyl pools, improves filter performance, and the water is swim-ready in 15 minutes. 494P19 is a 6 in 1 formula; kills and prevents algae, kills bacteria, is suitable for vinyl pools, improves filter performance, the water is swim-ready in 15 minutes, and is fast dissolving.

Algaecide—Quickly and effectively kills green, mustard, and black pool algae. For use with all pool types. Stays active in your pool water, with minimal loss of effectiveness due to water temperature, sunlight or swimming use.

Filter Aid—Granular formula with pure diatomaceous earth removes small particles and metals from swimming pool water.

Water Clarifier—Aids water filtration by binding together microscopic particles that are too small, and making them easier to remove.

Water Test Kit—Offers 6-way test strips to test your water weekly to prevent pool water problems. Tests for total hardness, total chlorine, free chlorine, pH, total alkalinity, and stabilizer. Free online water testing available.

Water Analysis Kits—Detect a wide range of bacteria, including E. coli, pseudomonas, Klebsiella, and salmonella.

Balancer 34TG60

Chlorine 20KR64

Pool Shock 494P19

Algaecide 494P20

Filter Aid 36JT28

Water Clarifier 36JT29

Product Label	Cleaner Form	Container Size	Container Type	pH Level	Brand	Item No.	Pkg. Qty.
Balancers							
Alkalinity Increaser	Granular	5 lb	Bag	8.2	Clorox Pool & Spa	**55PK16**	1
Calcium Hardness Increaser	Granular	5 lb	Bag	—	Clorox Pool & Spa	**55PK17**	1
Chlorine Stabilizer	Granular	4 lb	Bag	4.8 to 5.2	Clorox Pool & Spa	**55PK13**	1
Muriatic Acid	Liquid	1 gal	Jug	Less Than 1	Kem Tek	**34TG60**	84
pH Down	Granular	5 lb	Bag	Less Than 1	Clorox Pool & Spa	**55PK14**	1
pH Up	Granular	4 lb	Bag	11.4	Clorox Pool & Spa	**55PK15**	1
Chlorine							
Chlorinating Tablets	Tablet	35 lb	Bucket	2 to 5	Clorox Pool & Spa	**36JT21**	1
Chlorinating Tablets XtraBlue	Tablet	35 lb	Bucket	3 to 5	Clorox Pool & Spa	**36JT22**	1
Pool Chlorinating Liquid	Liquid	1 gal	Jug	12.5	Kem Tek	**20KR64**	72
Pool Shock							
Shock	Granular	13.4 oz	Packet	5 to 6	Pool Essentials	**494P22**	36
Shock Plus	Granular	1 lb	Packet	5 to 6	Clorox Pool & Spa	**494P18**	36
Shock XtraBlue	Granular	1 lb	Bottle	4 to 5	Clorox Pool & Spa	**494P19**	20
Algaecide							
Algaecide	Liquid	40 oz	Bottle	3 to 4	Clorox Pool & Spa	**494P21**	1
Green Algae Eliminator	Liquid	32 oz	Bottle	3 to 4	Clorox Pool & Spa	**494P20**	1
Filter Aid							
D.E. Media and Filter Aid	Granular	24 lb	Box	8 to 11	Clorox Pool & Spa	**36JT28**	1
Water Clarifier							
Water Clarifier	Liquid	32 oz	Bottle	4 to 7	Clorox Pool & Spa	**36JT29**	1
Water Test Kit							
Test Strips	Test Strips	50 ct	Bottle	—	Clorox Pool & Spa	**36JT33**	1

Testing Parameter	Size	Brand	Item No.	Pkg. Qty.
Water Analysis Kits				
For Bacteria	7 in x 2 ½ in	Purtest	**1LNW9**	1
For Bacteria	7 in x 2 in x 3 in	Purtest	**1LNX1**	10

Pool Lifts and Accessories

- ADA compliant

Lifts provide access to aquatic environments for both mobility-challenged individuals and seniors. Lifts feature true operational redundancy and can be operated from the control box and the handset. Hi/Lo 11Z850 can be used for facilities that have both in-ground and above-ground spas and pools.

Note: Deck profile sheet required with order; returns not accepted.

Splash!—Removable lifting system easily detaches from the stainless steel deck anchor.

PAL (Portable Aquatic Lift) and PAL2—Lifts are portable and free-standing. Can be fixed to the deck with optional Pool Lift Wheel-Away Kit 16V951, sold separately. Option to store when not in use.

Description	Includes	Rotation	Weight Cap.	L	W	H	Item No.
SPLASH! Series Anchored Pool Lifts							
Pool Lift	Anchor, Arm Rests, Battery, Battery Console Cover, Charger, Footrest, Seatbelt Assembly, Waterproof Hand Control	359°	300 lb	48 in	40 in	57 in	**40L107**
Pool Lift	Arm Rests, Battery, Battery Console, Charger, Footrest, Seat Belt Assembly, Stainless Steel Anchor Socket With Cover, Waterproof Control	359°	300 lb	87 in	20 in	77 in	**11Z862**
Pool Lift		359°	400 lb	76 in	20 in	67 in	**11Z855**
MultiLift Series Anchored Pool Lift							
MultiLift Lift Pool Lift	Arm Rests	—	350 lb	54 in	14 in	42 in	**16V943**
PAL Series Portable Pool Lifts							
Pool Lift	Arm Rests, Battery, Battery Console, Charger, Footrest, Seat Belt Assembly, Waterproof Control	240°	300 lb	96 in	28 in	66 in	**11Z848**
Hi/Lo Pool Lift		240°	300 lb	86 in	28 in	91 in	**11Z850**
PAL2 Series Portable Pool Lift							
Pool Lift	Anchor, Arm Rests, Battery, Battery Console Cover, Charger, Footrest, Seatbelt Assembly, Waterproof Hand Control	240°	300 lb	50 in	40 in	57 in	**40L115**

11Z855

Description	Item No.
Accessories	
LiftOperator Battery	**40L122**
LiftOperator Battery Charger—New Style	**11Z888**
Linak Pool Lift Battery	**11Z874**
Locking Square Deck Anchor w/Cap, SS	**40L120**
Covers	
Cover for PAL Pool Lifts, PAL2 Pool Lifts, Splash Pool Lifts	**467C91**
Cover for ML300 Pool Lifts, Multilift Pool Lifts	**467C93**
Seat and Mast Cover for Splash Pool Lift	**467C96**
Operator Console Cover for Lift Operator Consoles	**467C97**

Description	Handrail Ht.	Dia.	304 Stainless Steel Item No.	316L Stainless Steel Item No.
Deck-Mounted Stair Rails				
0.049 in Thick Rail, 48 in Center Grab Rail	32 in	1 29⁄32 in	**49XL46**	—
0.065 in Thick Rail, 48 in Center Grab Rail	32 in	1 29⁄32 in	**49XL54**	**49XL55**
0.049 in Thick Rail, 51 in Center Grab Rail	32 in	1 29⁄32 in	**49XL45**	—
0.065 in Thick Rail, 51 in Center Grab Rail	32 in	1 29⁄32 in	—	**49XL52**
0.049 in Thick Rail, 54 in Angled Center Grab Rail	32 in	1 29⁄32 in	**49XL47**	**49XL48**
0.065 in Thick Rail, 60 in Center Grab Rail	32 in	1 29⁄32 in	**49XL53**	—

Leaf Rake
479M85

Pool Vacuum
479M76

Telescopic Pole
479M89

Floating Thermometer
479N02

Pool and Spa Accessories

Leaf Rakes—Use a mesh netting to skim the bottom of the pool and remove large types of debris and leaves.

Leaf Skimmer—Designed to smoothly glide over the surface of the pool and collect lose particles. Built with either aluminum or plastic frames with a mesh net.

Description	Housing Material	Item No.
Leaf Rakes, Skimmers, Vacuums, Poles & Accessories		
Leaf Rake for Telescopic Poles		
17 inH, 1 ½ inW, 17 5/16 inL	Plastic	**479M85**
17 39/64 inH, 1 ½ inW, 17 ½ inL	Aluminum	**479M87**
18 inH, 2 inW, 19 ½ inL	Aluminum	**479M86**
19 13/16 inH, 1 ½ inW, 22 ¾ inL	Aluminum	**479M88**
Leaf Sweeps, Skimmers, Vacuums, Poles & Accessories		
Leaf Sweep for Telescopic Poles		
Brush/Wheel Combination, 15 inDia., 18 inH	Plastic	**479N03**
Leaf Rakes, Skimmers, Vacuums, Poles & Accessories		
Leaf Skimmer for Telescopic Poles		
18 inH, 1 ½ inW, 13 inL	Plastic	**479M83**
21 ½ inH, 1 ½ inW, 15 ½ inL	Aluminum	**479M84**
22 5/16 inH, 1 ½ inW, 14 ¾ inL	Plastic	**479M82**
Pool Vacuum for Telescopic Poles, EZ Clip Handle		
1 ¼ in Outlet, 2 25/64 inH, 8 ⅞ inW, 14 inL	Plastic	**479M76**
1 ¼ in Outlet, 2 ½ inH, 8 ⅞ inW, 22 ½ inL	Plastic	**479M77**
1 ¼ in Outlet, 4 ¼ inH, 10 ⅛ inW, 11 ⅞ inL	Plastic	**479M75**
Vacuum Hose, Swivel Cuff		
1 ¼ in Dia., 24 ftL	Plastic	**479M78**
1 ¼ in Dia., 36 ftL	Plastic	**479M79**
1 ½ in Dia., 40 ftL	Plastic	**479M80**
1 ½ in Dia., 50 ftL	Plastic	**479M81**
Telescopic Pole, 2-pc.		
Black/Gray/Anodized, 1 ¼ in Dia., 8 to 16 ftL	Aluminum	**479M90**
Blue/Gray/Anodized, 1 ¼ in Dia., 6 to 12 ftL	Aluminum	**479M89**
Black/Gray, 1 ¼ in Dia., 8 to 16 ftL	Fiberglass	**479M91**
Handle		
EZ Clip Handle, 1 ¼ in Dia., 4 ½ inL	Aluminum	**479N05**
EZ Clip Vacuum Handle, 1 ¼ in Dia., 4 ½ inL	Aluminum	**479N06**
Hanger for Telescopic Poles & Hoses		
3/32 inW, 3 ½ inL	Aluminum	**479N07**
Ladder Bumper for Pool Ladders		
1 ¼ in Dia., 2 inH	Rubber	**479N08**

Pool Vacuums—Use with either concrete/gunite pools or pools with vinyl liner. Built with attached weights to slide on the pool floor and collect debris that has settled.

Vacuum Hose—Connect to a vacuum head and filter to remove debris from the bottom of the pool.

Telescopic Poles—Connect to multiple tools such as a skimmer or brush and can extended or detract to reach various lengths throughout a pool.

Pool Brushes—Use the bristle appropriate for the type of pool. Brushes sweep the bottom and sides of pools to remove stains.

Description	Housing Material	Item No.
Pool Cleaning		
Pool Brush for Telescopic Poles		
Blended Nylon, Multi Surface PBT Bristles, 2 ¾ inH, 6 ¾ inW, 20 inL	Aluminum	**479M96**
Nylon Bristles, 2 ½ inH, 6 ⅛ inW, 18 inL	Aluminum	**479M95**
Polypropylene Bristles, 2 ⅛ inH, 6 inW,	Aluminum	**479M92**
Stainless Steel Bristles, 2 inH, 6 ½ inW, 10 inL	Aluminum	**479M94**
Stainless Steel Bristles, 2 ½ inH, 6 ⅛ inW, 18 inL	Aluminum	**479M93**
Pumice Stone for Telescopic Poles		
2 inW, 5 39/64 inL	Plastic	**479N04**
Stain Remover for Telescopic Poles		
1 ¼ in Dia., 2 13/32 inW, 4 inL	Plastic	**479N14**
Chemical Dispensers		
For Use With Bromine, Chlorine		
6 inH	Plastic	**479M98**
Automatic, 6 in Dia. x 21 inH	Plastic	**479M99**
Automatic, 6 in Dia. x 39 inH	Plastic	**479N01**
For Use With Chlorine Tablets 1-3 in		
10 13/32 inH	Plastic	**479M97**
Floating Thermometer		
Blue/White, 1 ½ in Dia., 7 5/16 inH	Plastic	**479N02**
Rope Anchor, Rope Float, Rope Hook, for Rope Float System		
Rope, ¾ in Dia., 50 ftL	Plastic	**479N12**
Rope Anchor, 1 ½ in Dia., 2 inH	Stainless Steal	**479N13**
Rope Float, 8 ½ inL	Plastic	**479N11**
Rope Hook		
Rope Hook, 1 ¼ in Dia.	Stainless Steal	**479N10**
Safety Hook		
Safety Hook, 23 ⅝ inL	Aluminum	**479N09**

Pole and Crank

Motor with Remote Control Operation

Exterior Sun Shades

- Easy-install system

Motor with Remote Control Operation, PVC Coated Polyester Yarn—Powered by a 12-ft. AC cord on right side of shade (cannot be moved to left side). A cable system secures shade and helps prevent flapping during light winds. The remote control is a multi-channel remote. Each remote can operate up to five shades. Hardware is oil-rubbed bronze and power cord and remote are white. Fabric comes standard as a reverse roll.

Pole and Crank Operation, PVC Coated Polyester Yarn—A flexible bungee system helps prevent flapping in light wind. Includes a 48" pole (with receiving ring on the right side of the shade). Hardware and crank pole are oil-rubbed bronze. Ring can be moved to the left side of the shade. Fabric comes standard as a forward roll.

▶CHOOSE: Fabric Color (UV Protection)	Valance Included	Overall Width 48 in Item No.	72 in Item No.	96 in Item No.	120 in Item No.
Motor with Remote Control Operation, PVC Coated Polyester Yarn, Fabric Drop 96 inL					
Maui (72 %), Caribbean (90 %), Kona (90 %)	Yes	**H9761**	**H9762**	**H9763**	**H9764**
Pole and Crank Operation, PVC Coated Polyester Yarn, Fabric Drop 96 inL					
Maui (72 %), Caribbean (90 %), Kona (90 %)	Yes	**H9765**	**H9766**	**H9767**	**H9768**

45JT44

45JT45

45JT51

NRS National Recreation Systems

Aluminum Bleachers

Feature all aluminum construction. Tip & roll bleachers have swivel casters for movement, and caster brakes keep the bleacher from rolling when stored as well as non-marring rubber footpads to protect wood floors. Always check your local code for bleachers to ensure you are compliant. ADA options are available; go to Grainger.com and search "ADA Compliant Aluminum Bleachers".

	7 ½ ft L		15 ft L		21 ft L		24 ft L	
	Item No.	Seats	Item No.	Seats	Item No.	Seats	Item No.	Seats
3 Rows								
	45JT44	15	45JT45	30	45JT46	42	45JT47	48
3 Rows - Tip & Roll								
	45JT48	15	45JT51	30	45JT52	42	45JT53	48
4 Rows								
	—	—	45JT54	40	45JT55	56	45JT56	64
4 Rows - Tip & Roll								
	45JT57	15	45JT59	40	—	—	—	—
5 Rows								
	—	—	45JT60	50	45JT61	70	45JT62	80

MADRAX

Bike Racks

Racks offer a convenient and secure location for bikes. Check local codes when determining space limitation for bike racks.

Item, Color	Holds No. of Bikes	Mounting	L	W	H	Brand	Item No.
Bike Rack, Galvanized	4	In-Ground	—	31 in	34 in	—	9PXM1
Bike Rack, Galvanized	4	Surface	—	31 in	34 in	—	8GDD9
Bike Rack, Black	4	Surface	—	31 in	34 in	—	9PXM2
Bike Rack, Black	4	Surface	49 ⅝ in	32 in	30 in	—	45MK35
Bike Rack, Black	5	Surface	37 ⅜ in	7 1⁄16 in	42 ½ in	—	45MK39
Bike Rack, Black	9	Surface	112 in	32 in	30 in	—	45MK37
Single Sided Bike Rack, Black	4	Surface	48 in	31 ¼ in	30 ¾ in	Madrax	8Z839
Single Sided Bike Rack, Silver	9	Surface	110 in	31 ¼ in	30 ¾ in	Madrax	8ANA7
Double Sided Bike Rack, Black	8	Surface	48 in	41 ¼ in	30 ¾ in	Madrax	8Z838
Double Sided Bike Rack, Silver	8	Surface	48 in	41 ¼ in	30 ¾ in	Madrax	9U755
Double Sided Bike Rack, Silver	18	Surface	110 in	41 ¼ in	30 ¾ in	Madrax	9CKY8

8GDD9

45MK35

45MK39

8Z838

Commercial-Grade Resin Chairs, Tables, and Umbrellas

Grosfillex

Durable, weather-resistant outdoor furniture is constructed for heavy-duty use in commercial environments. Molded melamine table tops are highly weather-resistant, as well as burn-, heat-, and scratch-resistant, to help minimize maintenance costs. ASTM tested 400-lb. weight capacity meets the high performance standards for nonresidential use. Include manufacturer commercial warranty.

Market Umbrellas—Provide shade and protection from the elements in outside food areas. 2-pc. wooden construction includes corrosion-resistant brass connectors, durable and color-fast canopy acrylic fabric, 8 ribs and a wind vent.

Umbrella Bases—Secure umbrellas to tables. 6DVK1 is sand- or water-filled and features a nonmarring resin glide. 6DVH3 is cement-filled and features molded anchor bolt holes to secure base to deck. UV-resistant and easy to clean with soap and water.

Type	D	W	H	Color	Weight Cap.	Item No.
Armchairs						
Fanback	23 ½ in	23 ½ in	36 in	Sandstone	300 lb	6DVH7
Fanback	23 ½ in	23 ½ in	36 in	White	300 lb	6DVG9
Highback	24 in	23 in	34 in	Bronze Mist	300 lb	6DVJ7
Ladder Back	24 in	24 in	34 in	Amazon Green	300 lb	6DVK2
Stack	22 in	20 in	35 ½ in	Espresso	300 lb	23NR80
Stackable	24 in	23 in	34 in	Bronze	300 lb	49XM58
Bistro Sidechairs						
Highback	20 in	17 in	35 in	White	300 lb	6DVK4
Chaise Lounges						
Adjustable	75 in	27 in	12 in	White	300 lb	6DVH1
Side Tables						
Low	17 in	17 in	15 in	Bronze Mist	—	6DVK0
Low	17 in	17 in	15 in	White	—	6DVH2
Tables						
Round	—	—	29 in	White	—	6DVH0

Size	Color	Item No.
Market Umbrellas		
7 ft	Forest Green	6DVL7
7 ft	Sand	6DVL8
7 ft	Terra Cotta	49XM79
9 ft	Forest Green	6DVL9
9 ft	Terra Cotta	49XM78

For Use With	Color	Item No.
Umbrella Bases		
1½ in Umbrellas on 46 in Table	White	6DVH3
1½ in Umbrellas on 32 in and 38 in Tables	Black	6DVK1

Fanback Armchair 6DVH7

Highback Armchair 6DVJ7

Ladderback Armchair 6DVK2

Stackable Armchair 23NR80

Stackable Armchair 49XM58

Bistro Sidechair 6DVK4

Round Table 6DVH0

Chaise Lounge 6DVH1

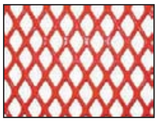
Market Umbrella 6DVL7

E5616

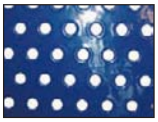
E5614

E5620

E5621



Expanded Metal



Perforated Metal

Picnic Tables and Umbrellas

- Ship unassembled

All have easy-to-clean thermoplastic coating that withstands most harsh environments, and eases graffiti removal. Galvanized steel understructure is black powder-coated, with sled-based legs. Expanded metal is 9-ga.; perforated metal is 11-ga. Square, round, and octagonal tables have a 1¾" center hold to accommodate optional umbrella (sold separately).

Description	▶CHOOSE: Color	Item No.
Expanded Metal ADA Picnic Table		
Octagon - 80 inW x 62 ½ inD x 29 ⅝ inH	Blue	**4HUV7**
Oval - 81 inW x 63 ½ inD x 29 ¼ inH	Green	**4HUP9**
Square - 80 inW x 75 inD x 29 ⅝ inH	Blue, Green	**E0149**
Expanded Metal Picnic Table		
Octagon - 80 inW x 80 inD x 29 ¼ inH	Blue, Green	**E5616**
Round -46 inDia. x 29 ¼ inH	Blue, Green	**E0146**
Square - 80 inW x 80 inD x 29 ⅝ inH	Blue, Green	**E0148**
Rectangle - 72 inW x 62 inD x 29 ⅝ inH	Blue, Green, Black, Brown	**E0150**
Perforated Metal Picnic Table		
Round -81 inDia. x 29 ¼ inH	Blue, Green	**E5615**
Square - 80 inW x 80 inD x 29 ⅝ inH	Blue, Green	**E5614**
Rectangle - 72 inW x 62 inD x 29 ⅝ inH	Blue, Green	**E5618**
Rectangle - 96 inW x 62 inD x 29 ⅝ inH	Blue, Green	**E5619**
Plastic Picnic Table		
Rectangle - 72 ⅛ inW x 57 inD x 29 inH	Gray	**12F621**
Rectangle - 72 ⅛ inW x 57 inD x 29 ⅝ inH	White	**1MDU4**
Umbrellas		
For Use With Tables With 2 in Holes	Blue, Green	**E5620**
Umbrella Bases		
For Use With 1½ in Umbrellas	Blue, Green	**E5621**

45NR19

2-Seat
13R069

ultrasite

Picnic Tables

Rectangular tables feature heavy-duty bolt-through design for added strength. Square tables are available as ADA-accessible, with a 3-seat option.

Description	SILVER Item No.	BROWN Item No.	GREEN Item No.	GRAY Item No.	CEDAR Item No.
Aluminum Picnic Table					
Rectangle - 72 inW x 68 inD x 30 inH	**13R061**	—	—	—	—
Rectangle - 96 inW x 68 inD x 30 inH	**13R062**	—	—	—	—
Steel Picnic Table					
Square - 76 inW x 76 inD x 30 inH	—	**8MY75**	**8MY76**	**9CL76**	**9RVN2**
Steel ADA Picnic Table					
Square - 76 inW x 63 inD x 30 inH	—	**8ZA71**	**9PRY6**	**8ZA72**	**8P611**
Recycled Plastic Picnic Table					
Hexagon - 72 inW x 72 inD x 29 inH	—	—	**45NR20**	—	**45NR19**
Rectangle - 72 inW x 56 inD x 29 inH	—	—	**45NR12**	**45NR11**	**45NR10**
Rectangle - 72 inW x 68 inD x 30 inH	—	**13R067**	**13R069**	**13R063**	**13R065**
Rectangle - 96 inW x 58 inD x 29 inH	—	—	**45NR15**	**45NR14**	**45NR13**
Rectangle - 96 inW x 68 inD x 30 inH	—	**13R068**	**13R070**	**13R064**	**13R066**
Recycled Plastic ADA Picnic Table					
Rectangle - 90 inW x 58 inD x 29 inH	—	—	—	—	**45NR16**

45NR04

45NP98

13P997

ultrasite

Recycled Plastic Benches

- Ship unassembled

Attractive, weather-resistant planks are made from 100% recycled plastic.

Mounting	Board Dimensions	Length	Load Rating (lb.)	GRAY Item No.	WOODTONE Item No.	GREEN Item No.	BROWN Item No.
Recycled Plastic With Recycled Plastic Frame Without Backrest							
Portable	2 " x 4 "	72"	3,000 lb	**45NR05**	**45NR04**	**45NR06**	—
Portable	2 " x 4 "	96"	4,000 lb	**45NR08**	**45NR07**	**45NR09**	—
Recycled Plastic With Recycled Plastic Frame With Backrest							
Portable	2 " x 6 "	72"	3,000 lb	**45NP97**	**45NP98**	**45NP99**	—
Portable	2 " x 6 "	96"	4,000 lb	**45NR01**	**45NR02**	**45NR03**	—
100% Recycled Plastic With Powder Coated Steel Frame Without Backrest							
Surface	2 " x 4 "	72	900 lb	**13R018**	**13R020**	**13R024**	**13R022**
Surface	2 " x 4 "	96	1,200 lb	**13R019**	**13R021**	**13R025**	**13R023**
100% Recycled Plastic With Powder Coated Steel Frame With Backrest							
In-Ground, Portable, Surface	2 " x 4 "	72	900	—	**13P999**	—	—
In-Ground, Portable, Surface	2 " x 4 "	72	900 lb	**13P997**	—	**13R004**	**13R002**
In-Ground, Portable, Surface	2 " x 4 "	96	1,200 lb	**13P998**	—	**13R005**	**13R003**
In-Ground, Portable, Surface	2 " x 4 "	96	1200	—	**13R001**	—	—
Surface	2 " x 4 "	72	900	—	**13R010**	—	—
Surface	2 " x 4 "	72	900 lb	**13R008**	—	**13R014**	**13R012**
Surface	2 " x 4 "	96	1,200 lb	**13R009**	—	**13R015**	**13R013**
Surface	2 " x 4 "	96	1200	—	**13R011**	—	—

E5612

E5610

Steel Outdoor Benches

- Ship unassembled

11-ga. steel benches have a thermoplastic coating that withstands most harsh environments and eases graffiti removal. Cast-iron legs.

Description	Top Length (in.)	Top W (in.)	▶CHOOSE: Color	Item No.
Expanded Metal with Powder Coated Steel Frame				
With Backrest	72	24	Blue, Green	**E0153**
With Backrest	74	27½	Blue, Green	**E5608**
With Backrest	96	24	Blue, Green	**E0154**
Without Backrest	72	15¼	Blue, Green	**E5612**
Without Backrest	96	12	Blue, Green	**E5613**
Perforated Metal with Powder Coated Steel Frame				
With Backrest	72	24	Blue, Green	**E5610**
With Backrest	96	24	Blue, Green	**E5611**

45MK13

45MK09

Decorative Steel Benches

THOMAS STEELE

Provide visitors a convenient place to rest and offer sturdy seating that is resistant to harsh weather conditions. They are suitable for a number of outdoor environments including parks, gardens, and sidewalks.

Top Length (in.)	Top Width (in.)	Top Height (in.)	Load Rating (lb.)	BLACK Item No.	GREEN Item No.	BLUE Item No.
Traditional Flat Hard Powder Coated						
49"	20"	25½"	1,200 lb	**45MK12**	**45MK13**	**45MK14**
71"	20"	25½"	1,200 lb	**45MK18**	**45MK19**	**45MK20**
Traditional Hard Powder Coated						
48"	27½"	33"	1,200 lb	**45MK09**	**45MK10**	**45MK11**
71"	27½"	33"	1,200 lb	**45MK15**	**45MK16**	**45MK17**

enMotion Motion-Activated Roll Towel and Dispenser Systems

enMotion motion-activated paper towel systems combine hands-free, touchless hygiene and jam-free performance for state-of-the-art, quiet dispensing with an attractive, sleek design. One-at-a-time automated dispensing helps prevent cross contamination and improves hygiene. Convenient and customizable settings include: delay, sheet length, and dispense mode so hands-free dispensers can be programmed to meet your specific operational needs, while also helping to reduce waste.

Each touchless dispenser features a set of batteries with excellent battery life to dispense up to 150 rolls, help reduce maintenance, and improve reliability. They come with a one-time, lifetime sublease agreement from Grainger (see bottom of page), backed by a 10-year warranty from Georgia-Pacific.

enMotion brand towels are soft, thick, and absorbent. Long-lasting rolls help reduce the time spent filling dispensers. EPA-Compliant, recycled rolls are also available.

3EB46

3EB49

2XLH5

See below for Required Dispenser Sublease Information

10-in Wide enMotion and enMotion Impulse Paper Towel Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Disposable, absorbent paper towel rolls are designed to be compatible with corresponding dispensers. Dispensers include 3 sensor range settings and time-delay settings (1, 2, or 3 seconds). All are plastic, surface wall-mount. Dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 10-in Roll Width								
enMotion	White	800 ft	Continuous	1 ¾ in	89460	**3EB46**	6	*†**
enMotion	White	800 ft	Continuous	1 ¾ in	89490	**6RA74**	6	*††
enMotion	White	800 ft	Continuous	1 ¾ in	89470	**4DJV9**	6	†‡#
enMotion	Brown	800 ft	Continuous	1 ¾ in	89480	**4ACU1**	6	†‡#‡‡

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion, Plastic	Gray	17 ¼ in	14 ¾ in	9 ½ in	59460A	**3EB48**
enMotion, Plastic	Black	17 ¼ in	14 ¾ in	9 ½ in	59462A	**3EB49**
enMotion, Plastic	White	17 ¼ in	14 ¾ in	9 ½ in	59407A	**15F493**
enMotion Impulse, Plastic	Gray	14 in	14 ⅝ in	9 ¼ in	59487A	**2XLH4**
enMotion Impulse, Plastic	Black	14 in	14 ⅝ in	9 ¼ in	59488A	**2XLH5**
enMotion Impulse, Plastic	White	14 in	14 ⅝ in	9 ¼ in	59447A	**15F494**
Accessories						
Quick Change Snap Back Mounting Bracket for 3EB48 and 3EB49					54019	**4DB80**
enMotion Central AC Kit for 2NY13, 3EB48, 3EB49 and 15F493					59477A	**449W36**
enMotion Plug-In AC Power Kit for 2NY13, 3EB48, 3EB49 and 15F493					59479A	**449W37**

****Sustainable Forest Initiative (SFI) Certified. † USDA Certified Biobased Product. ‡ ECOLOGO Certified. # Green Seal Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 40% Post-Consumer Recycled Content. ‡‡ Contains a Minimum of 50% Post-Consumer Recycled Content.***

444A61

444A58

444A59

See below for Required Dispenser Sublease Information

8-in Wide enMotion Flex Paper Towels Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Disposable paper towels dry hands, wipe surfaces, and clean up spills. Hardwound rolls are compatible with corresponding dispensers. Hands-free dispensers offer 99% jam-free dispensing. Dual-roll, auto-switch technology uses the smallest roll available first and uses 100% of the roll before switching to the standby roll to ensure zero waste. The intuitive design makes refilling easy. Automated dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width								
enMotion Flex	White	550 ft	Continuous	1 ⅝ in	89720	**444A61**	6	* **
enMotion Flex	White	550 ft	Continuous	1 ⅝ in	89730	**444A62**	6	†‡#
enMotion Flex	Brown	550 ft	Continuous	1 ⅝ in	89740	**444A63**	6	†‡# ††

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion Flex Wall-Mount, Plastic	Black	20 ⅞ in	13 ⅜ in	8 ⅛ in	59762	**444A58**
enMotion Flex Recessed Mount, Stainless Steel	Silver	21 ¼ in	13 ⅜ in	8 in	59766	**444A59**
enMotion Flex Mini Wall-Mount, Plastic	Black	13 ¼ in	11 ¾ in	7 ⅜ in	59798	**444A60**
Accessories						
Central AC Kit for 444A58, 444A59 and 444A60					59777	**468G40**
Plug-In AC Power Kit for 444A58, 444A59 and 444A60					59779	**468G41**

****Sustainable Forest Initiative (SFI) Certified. † USDA Certified Biobased Product. ‡ ECOLOGO Certified. # Green Seal Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 50% Post-Consumer Recycled Content.***

5UWL7

2NY13

1LYK3

See below for Required Dispenser Sublease Information

8-in Wide enMotion and enMotion Impulse Paper Towel Rolls and Dispensers

- Hardwound rolls
- Motion-activated dispensers

Paper towel rolls offer softness and absorbency to dry hands and clean surfaces quickly. Rolls are compatible with corresponding dispensers. Dispensers have adjustable settings and offer 99% jam-free dispensing. All dispensers are plastic, surface wall-mount, except 2NY13 is stainless steel, recessed mount. Batteries included. 2NY14 and 2NY15 are ADA-Compliant trash receptacles for use with 2NY13 dispenser. Motion-activated dispensers are proprietary and are designed to be used with compatible hardwound paper towel rolls.

Description	Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width								
enMotion—Premium Embossed	White	425 ft	Continuous	1 ½ in	89410	**2NY16**	6	* **
enMotion	White	700 ft	Continuous	1 ½ in	89420	**3ZJD1**	6	*†**
enMotion	White	700 ft	Continuous	1 ½ in	89430	**2NY17**	6	*†
enMotion	Brown	700 ft	Continuous	1 ½ in	89440	**5UWL7**	6	†‡#††

Description	Color	H	W	D	Mfr. Model	Item No.
Dispensers						
enMotion Recessed Mount, Stainless Steel	Silver	16 ⅜ in	13 ¼ in	8 in	59466A	**2NY13**
enMotion Impulse Wall-Mount, Plastic	Gray	13 ¾ in	12 ¾ in	8 ⅝ in	59497A	**1LYK3**
enMotion Impulse Wall-Mount, Plastic	Black	13 ¾ in	12 ¾ in	8 ⅝ in	59498A	**1LYK4**
enMotion Impulse Wall-Mount, Plastic	White	13 ¾ in	12 ¾ in	8 ⅝ in	59437A	**15F495**
Accessories						
enMotion Trash Can for 2NY13—Fits 16" Cavities	Silver	56 in	17 3⁄16 in	7 ¾ in	59491	**2NY14**
enMotion Trash Can for 2NY13—Fits 12" to 16" Cavities	Silver	60 in	17 3⁄16 in	8 in	59471	**2NY15**
enMotion Central AC Kit for 2NY13, 3EB48, 3EB49 and 15F493					59477A	**449W36**
enMotion Plug-In AC Power Kit for 2NY13, 3EB48, 3EB49 and 15F493					59479A	**449W37**

****Sustainable Forest Initiative (SFI) Certified. † USDA Certified Biobased Product. ‡ ECOLOGO Certified. # Green Seal Certified. ** Applicable to LEED Criteria. †† Contains a Minimum of 50% Post-Consumer Recycled Content.***

Dispenser Sublease Information

Note: The enMotion towel dispensers, owned by Georgia-Pacific Consumer Products LP (GP), are not available for sale, but are subleased to end user customers by Grainger, an authorized distributor of these products. The Grainger price is therefore a one-time sublease acquisition fee. The sublease requires that only Georgia-Pacific enMotion products be used in these dispensers. By paying the one-time sublicense fee, you hereby agree to be bound by the sublease. You can review the sublease by visiting Grainger.com listing for the relevant product.

Pacific Blue Ultra Paper Towel Rolls and Dispensers

52RW80

52RW81

- Hardwound rolls

High-capacity paper towel rolls dispense one-at-a-time. Use with compatible proprietary Pacific Blue Ultra motion-activated or pull paper towel dispensers. Motion-activated dispenser offers touchless, hands-free dispensing using infra-red sensors. Manual pull dispenser has no buttons, levers, or cranks, eliminating any touch points that would spread germs.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 7 ⅞-in Roll Width							
White	1,150 ft	Continuous	1 ½ in	26491	**52RW79**	3	
Brown	1,150 ft	Continuous	1 ½ in	26496	**52RW80**	3	*†‡**
White	1,150 ft	Continuous	1 ½ in	26490	**52RW77**	6	#
Brown	1,150 ft	Continuous	1 ½ in	26495	**52RW78**	6	*†#**

Dispenser Operation	Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispensers									
Motion Activated	7 ⅞ in	1 ½ in	Plastic	Black	16 in	12 ⅞ in	9 in	59590	**52RW81**
Pull	7 ⅞ in	1 ½ in	Plastic	Black	16 in	12 ⅞ in	9 ⅜ in	59589	**52RW82**

** ECOLOGO Certified. † Green Seal Certified. ‡ USDA Certified Biobased Product # Forest Stewardship Council (FSC) Certified. ** Applicable to LEED Criteria.*

Scott Control Slimroll Paper Towel Rolls and Dispenser

60HV95

60HW01

- Hardwound rolls
- Motion-activated dispenser

Slim paper towel rolls are designed to be used with proprietary Scott Control Slimroll towel dispenser for tight spaces. This touchless, compact dispenser has infrared sensors for hands-free operation.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width							
White	580 ft	Continuous	1 ¾ in	47035	**60HV95**	6	*†

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
8 in	1 ¾ in	Plastic	White	12 ⅜ in	11 ¾ in	7 ¼ in	47259	**60HW01**

** Forest Stewardship Council (FSC) Certified. † ECOLOGO Certified.*

Scott Essential Paper Towel Rolls and Dispenser

58CK16

60HW02

- Hardwound rolls
- Motion-activated dispenser

Paper towels offer softness and absorbency and fit proprietary Scott Essential dispenser for touchless dispensing. Hands-free dispenser offers more than 120,000 dispenses or about 60,000 hand dries on one set of batteries. Jam-free dispenser minimizes the risk of cross contamination.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 8-in Roll Width							
White	950 ft	Continuous	1 ¾ in	02001	**58CK16**	6	*†‡

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
8 in	1 ¾ in	Plastic	Black	15 ¾ in	12 ¾ in	9 ½ in	48860	**60HW02**

** Forest Stewardship Council (FSC) Certified. † ECOLOGO Certified. ‡ Contains a minimum of 40% Post-Consumer Recycled Content and a minimum of 50% Pre-Consumer Recycled Content.*

Scott Pro Paper Towel Rolls and Dispenser

42EP38

60HW06

- Hardwound rolls
- Motion-activated dispenser

Paper towel rolls are designed to be used with proprietary Scott Pro dispenser. Provides electronic motion-activated dispensing with the option for an unex-posed sheet, which helps keep paper towels clean. This touchless dispenser has infrared sensors for hands-free operation. 99.99% jam-free, dispenses one sheet at a time.

Color	Roll Length	Sheet Length	Core Dia.	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls, 7½-in Roll Width							
White	700 ft	Continuous	1 ¾ in	25637	**40AY47**	6	*†‡
White	900 ft	Continuous	1 ¾ in	43959	**42EP51**	6	*†‡
White	1,150 ft	Continuous	1 ¾ in	25702	**42EP38**	6	*†‡

Paper Towel W	Core Dia.	Material	Color	H	W	D	Mfr. Model	Item No.
Dispenser								
7 ½ in	1 ¾ in	Plastic	Black	16 ½ in	12 ⅝ in	9 ⅛ in	34348	**60HW06**

** Forest Stewardship Council (FSC) Certified. † ECOLOGO Certified. ‡ Contains a minimum of 40% Post-Consumer Recycled Content and a minimum of 50% Pre-Consumer Recycled Content.*

1PHJ3

4TH58

22UY42

22LC66

Center Pull Paper Towel Rolls and Dispensers

Disposable, absorbent center pull paper towels are used to dry hands, wipe surfaces, and clean up spills. Use rolls with corresponding dispensers.

SofPull Paper Towel Rolls—SofPull paper towel rolls are designed to be used with proprietary SofPull towel dispensers.

Paper Towel Rolls for Universal Dispenser—Ideal for washroom or workroom.

Proprietary and Universal Dispensers—Center pull paper towel dispensers offer sanitary, contamination-resistant hands-free dispensing eliminating excess paper usage. Wall-mount dispensers are compatible with center pull paper towel rolls.

Ply	Color	Roll Width	Roll Length	Sheet Length	Core Dia.	Number of Sheets	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
SofPull Paper Towel Rolls for Proprietary Dispensers												
1	White	7 ¾ in	700 ft	14 ¾ in	2 ⅜ in	567	SofPull	Georgia-Pacific	28143	**1PHJ3**	4	*
1	White	8 in	186 ft	14 ¾ in	2 ⅜ in	324	SofPull	Georgia-Pacific	28124	**4TH48**	6	*
1	White	7 ¾ in	160 ft	14 ¾ in	2 ⅜ in	225	SofPull	Georgia-Pacific	28125	**1FC67**	8	*
Paper Towel Rolls for Universal Dispensers												
1	White	7 ½ in	1,000 ft	14 in	—	857	Tough Guy	Tough Guy	60FG14	**60FG14**	6	
1	White	7 ½ in	1,000 ft	12 in	3 in	1,000	Pacific Blue Basic	Georgia-Pacific	44110	**12G818**	6	*
1	White	7 ¾ in	700 ft	15 in	2 ⅜ in	560	Tough Guy	Tough Guy	22UY42	**22UY42**	4	‡
2	White	7 ⅞ in	600 ft	12 in	2 ⅜ in	600	Tough Guy	Tough Guy	22UY44	**22UY44**	4	*†‡
2	White	8 ¼ in	520 ft	12 in	3 in	520	Pacific Blue Select	Georgia-Pacific	44000	**4CJ91**	6	*

Paper Towel W	Material	Color	H	W	D	Brand	Mfr. Model	Item No.
SofPull® Proprietary Dispensers								
7 ¾ in	Plastic	Gray	10 ¾ in	6 ¾ in	7 ¼ in	Georgia-Pacific	58008	**4TE14**
7 ¾ in	Plastic	Gray	11 ½ in	10 ⅞ in	10 ⅜ in	Georgia-Pacific	58201	**4TH58**
7 ¾ in	Plastic	Gray	11 ½ in	9 ¼ in	8 ¾ in	Georgia-Pacific	58204	**4TH59**
Tough Guy Universal Dispenser								
7 ¾ in	Plastic	Smoke	11 ⅜ in	8 ⅞ in	9 in	Tough Guy	22LC66	**22LC66**

** Forest Stewardship Council (FSC Certified. † Green Seal Certified. ‡ Contains a Minimum of 50% Post-Consumer Recycled Content.*

Hardwound Paper Towel Rolls and Dispensers

Paper Towel Rolls—All Georgia-Pacific and Tough Guy paper towel rolls specifically fit Universal Dispenser 4TE15. Kimberly-Clark paper towel rolls specifically fit Universal Dispenser 40AY40.

Universal Dispensers—Help reduce risk of cross-contamination. Large capacity and reserve stub roll feature on 4TE15 helps reduce service intervals. Mount directly to wall or with mounting bracket 4DB80, sold separately on Grainger.com.

3JH03

4TE15

42EP52

40AY40

Color	Roll Width	Roll Length	Sheet Length	Core Dia.	Ply	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Paper Towel Rolls for Universal Dispensers											
Brown	7 ⅞ in	350 ft	Continuous	2 in	1	Pacific Blue Basic	Georgia-Pacific	26401	**2U231**	12	*†**
Brown	7 ⅞ in	350 ft	Continuous	2 in	1	Tough Guy	Tough Guy	38X644	**38X644**	12	††
Brown	7 ⅞ in	800 ft	Continuous	2 in	1	Pacific Blue Basic	Georgia-Pacific	26301	**2U232**	6	†**
Brown	7 ⅞ in	800 ft	Continuous	2 in	1	Tough Guy	Tough Guy	38X645	**38X645**	6	††
White	7 ⅞ in	350 ft	Continuous	2 in	1	Tough Guy		38X642	**38X642**	12	**##
White	7 ⅞ in	350 ft	Continuous	2 in	2	Pacific Blue Select	Georgia-Pacific	28000	**3JH03**	12	*
White	7 ⅞ in	600 ft	Continuous	2 in	1	Tough Guy	Tough Guy	60FG12	**60FG12**	12	
White	7 ⅞ in	800 ft	Continuous	2 in	1	Tough Guy		38X643	**38X643**	6	††
White	7 ⅞ in	800 ft	Continuous	2 in	1	Pacific Blue Basic	Georgia-Pacific	26601	**4ECN3**	6	†‡
White	7 ⅞ in	800 ft	Continuous	2 in	1	Tough Guy	Tough Guy	60FG11	**60FG11**	6	
White	7 ⅞ in	1,000 ft	Continuous	2 in	1	Tough Guy		60FG13	**60FG13**	6	
White	7 ⅞ in	1,000 ft	Continuous	2 in	1	Pacific Blue Select	Georgia-Pacific	26100	**1PHH7**	6	*
White	7 ⅞ in	350 ft	Continuous	2 in	1	Pacific Blue Basic		28706	**4ECN2**	12	*
White	8 in	600 ft	Continuous	1 ¾ in	1	Scott Essential	Kimberly-Clark	50606	**42EP52**	6	‡#‡‡
White	8 in	950 ft	Continuous	1 ¾ in	1	Scott Essential		02000	**40AY46**	6	‡#‡‡

Dispenser Operation	Paper Towel W	Material	Color	H	W	D	Brand	Mfr. Model	Item No.
Universal Dispensers									
Push Lever	7 ⅞ in	Plastic	Black	14 ¼ in	12 ½ in	10 ½ in	Georgia-Pacific	54338A	**4TE15**
Pull	8 in	Plastic	Black	16 ⅛ in	12 ⅝ in	10 ¼ in	Kimberly-Clark Professional	09996	**40AY40**

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Paper Towel Sheets and Pull Dispensers

Multifold—Interfolded for continuous one-at-a-time dispensing. Eliminates tabbing, tearing, and multiple towel dispensing.

Single-Fold—Sheets are folded in half for one-at-a-time dispensing.

C-Fold—Folded into the shape of a "C" and stacked on top of the other for single sheet dispensing reducing tabbing.

Dispensers—Pull paper towel dispensers are manual operation with no buttons, levers, or cranks to spread germs.

Multifold

Single Fold

C-Fold

4CJ95

1ECK4

Color	Sheet W	Sheet L	No. of Sheets	Ply	Product Series	Mfr. Model	Item No.	Pkg. Qty.	
Multifold Paper Towel Sheets									
Brown	9 ¼ in	9 ½ in	250	1	Pacific Blue Basic	23304	**2U229**	16	*†**
Brown	9 ¼ in	9 ½ in	250	1	Tough Guy	38C403	**38C403**	16	**
White	7 ¾ in	12 ½ in	175	1	Scott Pro Scottfold	01960	**42EP21**	25	‡#‡‡
White	8 in	10 ¾ in	260	1	Pacific Blue Ultra	20885	**4NGV6**	10	*
White	8 ⅝ in	9 ½ in	175	1	Tough Guy	60FG16	**60FG16**	16	
White	9 ¼ in	9 ½ in	125	2	Pacific Blue Select	21000	**3JG98**	16	
White	9 ¼ in	9 ½ in	250	1	Georgia-Pacific Professional	2212014	**39FK92**	8	*
White	9 ¼ in	9 ½ in	250	1	Pacific Blue Basic	24590	**2U228**	16	*†
White	9 ¼ in	9 ½ in	250	1	Pacific Blue Select	20389	**6VD82**	16	*
White	9 ¼ in	9 ½ in	250	1	Tough Guy	38C404	**38C404**	16	††
White	10 ¼ in	10 ¾ in	220	1	Pacific Blue Ultra	20887	**4TH60**	10	*
White	10 ¼ in	10 ¾ in	220	1	Pacific Blue Ultra Big Fold	33587	**3ZJD2**	10	*
Single Fold Paper Towel Sheets									
Brown	9 ¼ in	10 ¼ in	250	1	Pacific Blue Basic	23504	**4CJ75**	16	*†**
Brown	9 ¼ in	10 ¼ in	250	1	Tough Guy	36P068	**36P068**	16	**
White	9 ¼ in	10 ¼ in	250	1	Pacific Blue Basic	20904	**5UWN4**	16	*
C-Fold Paper Towel Sheets									
White	9 in	13 in	200	1	Tough Guy	448K96	**448K96**	12	**
White	10 in	12 ¾ in	200	1	Pacific Blue Select	2112014	**39FK91**	6	*
White	10 in	12 ¾ in	120	2	Pacific Blue Select	23000	**3JG99**	12	*
White	10 in	12 ¾ in	200	1	Pacific Blue Select	20241	**4CJ76**	12	*
White	10 ¼ in	12 ¾ in	240	1	Pacific Blue Basic	25190	**2U227**	10	*†

Paper Towel Type	Paper Towel W	Material	Color	Cap.	H	W	D	Brand	Mfr. Model	Item No.
Dispensers										
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Steel	Silver	(300) C-Fold, (600) Multifold	15 ½ in	11 ¾ in	4 ⅜ in	Georgia-Pacific	56620	**1CF38**
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Steel	White	(300) C-Fold, (600) Multifold	15 ½ in	11 ¾ in	4 ⅜ in	Georgia-Pacific	56601	**2U234**
Multifold, C-Fold	8 in, 9 ¾ in, 10 ⅛ in	Plastic	Black	(400) C-Fold, (600) Multifold	15 ⅜ in	11 in	5 ¼ in	Georgia-Pacific	56650A	**4CJ95**
Multifold, C-Fold	9 ¼ in	Stainless Steel	Silver	(200) C-Fold, (350) Multifold	8 in	11 in	4 in	Tough Guy	1ECK3	**1ECK3**
Multifold, C-Fold	9 ¼ in	Stainless Steel	Silver	(400) C-Fold, (525) Multifold	14 ½ in	11 in	4 in	Tough Guy	1ECK4	**1ECK4**
Multifold, C-Fold	9 ¼ in, 12 in	Plastic	Black/Gray	(500) C-Fold, (600) Multifold	14 in	11 ¾ in	5 ⅛ in	Tough Guy	22LC62	**22LC62**
Multifold	7 ⅞ in	Plastic	Black	(438) Scottfold	18 ¾ in	10 ⅝ in	5 ½ in	Kimberly-Clark Professional	39711	**60HW14**
Multifold	9 ¼ in	Steel	White	(400) C-Fold, (525) Multifold	14 ½ in	11 in	4 in	Tough Guy	1ECK7	**1ECK7**
Single Fold	9 ½ in, 10 ¼ in	Steel	White	(500) Single Fold	8 ⅛ in	11 ⅝ in	6 ⅝ in	Georgia-Pacific	56701	**2U693**
Single Fold	9 ¼ in	Stainless Steel	Silver	(400) Single Fold	6 ⅜ in	11 in	5 ¾ in	Tough Guy	1ECK5	**1ECK5**
Single Fold	9 ¼ in	Steel	White	(500) C-Fold, (600) Multifold	6 ⅜ in	11 ⅜ in	5 ¾ in	Tough Guy	22LC61	**22LC61**

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Perforated Paper Towel Rolls and Holder

General purpose towel rolls for everyday jobs. Fit standard paper towel roll holders.

Roll Towels—39FK90 comes in a convenient dispenser case. Pacific Blue Basic towels have the same number of towels per case as standard 100-sheet rolls.

Roll Towel Holder—Wall-mount dispenser holds 1 roll of perforated roll towels. Use with roll towels listed below. Chrome-finished steel.

22UY43

39FK90

6RA70

12V373

Color	Roll Width	Roll Length	Sheet Length	No. of Sheets	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Roll Towels										
Brown	11 in	230 ft	8 ⅞ in	250	Pacific Blue Basic	Georgia-Pacific	28290	**4CJ81**	12	*‡
White	11 in	64 ft	9 in	85	Tough Guy	Tough Guy	22UY43	**22UY43**	30	†
White	11 in	60 ft	8 ⅞ in	85	Sparkle Professional Series	Georgia-Pacific	2717714	**39FK90**	15	*
White	11 in	60 ft	8 ⅞ in	85	Pacific Blue Select	Georgia-Pacific	27385	**5ERE2**	30	*
White	11 in	64 ft	9 in	85	Tough Guy	Tough Guy	60FG15	**60FG15**	15	
White	11 in	230 ft	8 ⅞ in	250	Pacific Blue Select	Georgia-Pacific	27700	**6RA70**	12	*

Paper Towel Type	Paper Towel W	Material	Color	Capacity	H	W	D	Brand	Mfr. Model	Item No.
Roll Towel Holder										
Perforated Roll	11 in	Steel	Silver	(1) Roll	3 in	13 ¼ in	4 ¾ in	Georgia-Pacific	52720	**12V373**

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Scan. Order. Done.
Details on page A1.

38TL02

Towels
38TL03

Ligature-Resistant Pull Paper Towel Dispensers and Sheets

- 1 ply sheets

Manual dispensers withstand damage and prevent vandalism, abuse, or potential for self-harm or suicide in behavioral or mental health facilities where antiligature or security products are required. Durable stainless steel dispensers mount securely. **38TL02** features 5 year warranty against vandalism and locks with a stainless steel circular keyway cam lock that can't be picked or clogged with gum. **55AF65** has a 1 year warranty and includes mounting hardware.

Paper Towel Type	Paper Towel W	Dispenser Cap.	H	W	D	Brand	Item No.
Paper Towel Dispensers							
Multifold	4 in	(350) Multifold	10 in	4 ½ in	4 in	Ops	**38TL02**
C-Fold	10 ¼ in	(½ Ream) C-Fold	13 ¾ in	4 in	2 ½ in	Bestcare	**55AF65**

Paper Towel Type	Color	Sheet W	Sheet L	No. of Sheets	Product Series	Brand	Item No.	Pkg. Qty.	
Paper Towel Sheets for Dispenser 38TL02									
Multifold	White	4 in	9 in	250	OPS	Ops	**38TL03**	32	
Paper Towel Sheets for Dispenser 55AF65									
C-Fold	White	10 ¼ in	12 ¾ in	240	Pacific Blue Basic	Georgia-Pacific	**2U227**	10	*†

** Sustainable Forest Initiative (SFI) Certified. † Green Seal Certified.*

Facial Tissues and Dispenser

- 2- or 3-ply tissues are gentle on skin and reduce spread of germs

2KRF3

42EN78

42EN76

42EN83

1ECK6

Product Series	Sheet Size	Ply	No. of Sheets	Box Type	Brand	Item No.	Pkg. Qty.	
Facial Tissues								
Angel Soft Professional Series	7 ¾ in x 8 ¾ in	2	96	Cube	Georgia-Pacific	**2KRF3**	36	*†
Angel Soft Ultra	7 ½ in x 8 ½ in	2	96	Cube	Georgia-Pacific	**39FK87**	10	*
Professional Series	7 ½ in x 8 ½ in	2	96	Cube	Georgia-Pacific	**5ERE5**	36	*
Envision	8 in x 8 in	2	85	Cube	Georgia-Pacific	**4DJV5**	36	*†
Kleenex Anti-Viral	8 in x 8 in	3	60	Cube	Kimberly-Clark Professional	**42EN78**	12	
Kleenex Comfort	7 ¾ in x 8 ¼ in	2	95	Cube	Kimberly-Clark Professional	**42EN74**	36	‡
Touch	7 ¾ in x 8 ¼ in	2	95	Cube	Kimberly-Clark Professional	**42EN75**	36	‡
Kleenex Naturals	7 ¾ in x 8 ¼ in	2	95	Cube	Kimberly-Clark Professional	**42EN76**	36	†‡

Product Series	Sheet Size	Ply	No. of Sheets	Box Type	Brand	Item No.	Pkg. Qty.	
Preference	7 ¾ in x 8 ¾ in	2	100	Cube	Georgia-Pacific	**4DJV4**	36	*†
Angel Soft	5 ½ in x 7 ¼ in	2	50	Flat	Georgia-Pacific	**10F287**	60	*†
Professional Series	7 ¾ in x 8 ¾ in	2	100	Flat	Georgia-Pacific	**1FC57**	30	*†
Angel Soft Ultra	7 ½ in x 8 ¾ in	2	125	Flat	Georgia-Pacific	**39FK88**	10	*
Professional Series	8 ½ in x 7 ¾ in	2	125	Flat	Georgia-Pacific	**5ERE4**	30	*
Envision	8 in x 8 ¼ in	2	100	Flat	Georgia-Pacific	**2U250**	30	*†
Kleenex Comfort Touch	7 ¾ in x 8 ¼ in	2	100	Flat	Kimberly-Clark Professional	**42EN83**	36	‡
Preference	7 ¾ in x 8 ¾ in	2	100	Flat	Georgia-Pacific	**2U251**	30	*†

Description	Cap.	H	W	D	Brand	Item No.
Facial Tissue Dispenser						
Flat Box Stainless Steel Tissue Dispenser	(100) Sheets	2¾"	11¼"	5½"	Tough Guy	**1ECK6**

** Sustainable Forest Initiative (SFI) Certified. † Contains a Minimum of 10% Post-Consumer Recycled Content. ‡ Forest Stewardship Council (FSC) Certified.*

4TH42

4DJU5

32GV92

1LYJ7

3APV5

Compact Coreless Toilet Paper and Dispensers

TOILET PAPER ROLLS
Coreless design eliminates stub roll waste. Poly package reduces inventory space and provides easier product storage than corrugated boxes.

TOILET PAPER DISPENSERS
Covered design fits any decor and allows one-at-a-time roll usage, while protecting the spare roll.

TOILET PAPER ADAPTER SPINDLES
Cost-effective way to double tissue capacity using your existing standard-size dispenser.

Ply	No. of Sheets	Roll Dia.	Product Series	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
1	3,000	5 ¾ in	Compact	19374	**1LYJ5**	18	*†#
2	750	4 ¾ in	Angel Soft Professional Series Compact	1937300	**32GV94**	12	#
2	750	4 ¾ in	Angel Soft Professional Series Compact	19371	**3APV7**	36	#
2	1,000	4 ¾ in	Compact	19375	**4TH42**	36	*†‡
2	1,125	5 ¾ in	Angel Soft Professional Series Compact	19372	**3APV8**	18	#
2	1,500	5 ¾ in	Compact	19378	**1FC17**	18	‡

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	Product Series	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Steel	Gray	5 ¾ in	Compact	7 ⅛ in	10 ⅛ in	6 ¾ in	56796A	**4DJU5**
(2) Rolls	Steel	Silver	5 ¾ in	Compact	7 ⅛ in	10 ⅛ in	6 ¾ in	56798	**32GV90**
(2) Rolls	Plastic	Gray	5 ¾ in	Compact	7 ⅛ in	10 ⅛ in	6 ¾ in	56783A	**1FC63**
(2) Rolls	Plastic	Black	5 ¾ in	Compact	7 ⅛ in	10 ⅛ in	6 ¾ in	56784A	**4TH54**
(2) Rolls	Plastic	White	5 ¾ in	Compact	7 ⅛ in	10 ⅛ in	6 ¾ in	56797A	**15F489**
(2) Rolls	Plastic	Smoke	5 ¾ in	Compact	8 ⅜ in	12 ¼ in	12 ⅜ in	5679500	**32GV93**
Quad Wheel									
(4) Rolls	Plastic	Blue	5 ¾ in	Compact	13 in	14 in	5 ½ in	56787	**32GV91**
(4) Rolls	Plastic	Smoke	5 ¾ in	Compact	13 in	14 in	5 ½ in	56788	**32GV92**
Vertical Double Roll									
(2) Rolls	Steel	Silver	5 ¾ in	Compact	13 ½ in	6 in	6 ½ in	56782	**1LYJ6**
(2) Rolls	Plastic	Gray/Blue	5 ¾ in	Compact	13 ½ in	6 in	7 in	56789	**1LYJ7**
(2) Rolls	Plastic	Black	5 ¾ in	Compact	13 ½ in	6 in	6 ½ in	56790A	**1LYJ8**
(2) Rolls	Plastic	White	5 ¾ in	Compact	11 ⅞ in	6 ⅜ in	6 ⅝ in	56767A	**15F490**
Vertical Quad Roll									
(4) Rolls	Steel	Gray	5 ¾ in	Compact	13 ¼ in	11 ¾ in	6 ⅞ in	56746A	**4DJU4**
(4) Rolls	Steel	Silver	5 ¾ in	Compact	13 ½ in	6 in	6 ½ in	56748	**32GV89**
(4) Rolls	Plastic	Black	5 ¾ in	Compact	13 ¼ in	11 ¾ in	6 ⅞ in	56744A	**3APV5**
(4) Rolls	Plastic	White	5 ¾ in	Compact	13 ¼ in	11 ¾ in	6 ⅞ in	56747A	**15F491**

Product Series	Dispenser Configuration	Material	Mfr. Model	Item No.	Pkg. Qty.
Toilet Paper Adapter Spindles					
Compact	Bobrick Vertical Drop Down	Plastic	50011	**32PH96**	2
Compact	ASI Vertical Drop Down	Plastic	50012	**32PH97**	2
Toilet Paper Roll Spindles					
Compact	Horizontal Single Roll	Plastic	50030	**32PH98**	2

** Green Seal Certified. † USDA Certified Biobased Product. ‡ ECOLOGO Certified. # Sustainable Forest Initiative (SFI) Certified.*

Scott Coreless Toilet Paper and Dispensers

Bathroom toilet paper rolls are used in high-traffic restrooms with compatible proprietary dispensers to help reduce waste by using all of the bathroom tissue roll preventing cardboard tube litter.

42EN44

60HV77

60HV79

60HV80

Ply	No. of Sheets	Roll Dia.	Product Series	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
Coreless							
2	800	5 ⅛ in	Scott	07001	**42EN44**	36	*#
2	1,000	5 ⅛ in	Scott Essential	04007	**42EN41**	36	*†‡
Small Core							
2	1,100	5 ⅛ in	Scott Pro	47305	**60HV77**	36	*†‡

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	Product Series	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Plastic	Smoke	5 ¼ in	Scott Essential	7 ⅝ in	11 in	6 in	09604	**60HV79**
Vertical Quad Roll									
(4) Rolls	Plastic	Black	5 ¼ in	Scott Pro	12 ¾ in	11 ¼ in	6 ¼ in	44518	**60HV80**
(4) Rolls	Plastic	Silver	5 ¼ in	Scott Pro	12 ¾ in	11 ¼ in	6 ¼ in	44519	**60HV81**

** Forest Stewardship Council (FSC) Certified. † ECOLOGO Certified. ‡ Contains a Minimum of 20% Post-Consumer Recycled Content and a Minimum of 50% Pre-Consumer Recycled Content. # Contains a Minimum of 20% Post-Consumer Recycled Content.*

40AY49

4TE17

4DJV2

1CF35

506K73

3P914

Standard Core Toilet Paper Rolls and Dispensers

Standard-size toilet paper rolls fit double roll dispensers, holders, and spindles.

Ply	No. of Sheets	Roll Dia.	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls								
1	170	4 ½ in	Cottonelle	Kimberly-Clark Professional	12456	**60HV78**	48	*
1	550	4 ¾ in	Envision	Georgia-Pacific	19881/01	**1LYJ9**	80	†
1	1,000	4 ¼ in	Tough Guy	Tough Guy	38C406	**38C406**	48	‡††
1	1,000	4 ¼ in	Tough Guy	Tough Guy	31TW74	**31TW74**	96	‡††
1	1,210	4 ¾ in	Envision	Georgia-Pacific	14580/01	**4TE16**	80	†‡
1	1,500	5 ⅜ in	Envision	Georgia-Pacific	14448/01	**2ZRU6**	48	†**
2	400	4 ⅞ in	Angel Soft Ultra Professional Series	Georgia-Pacific	1632014	**39FK93**	20	†
2	400	4 ⅞ in	Angel Soft Professional Series	Georgia-Pacific	16560	**5ERE6**	60	†**
2	400	4 ⅞ in	Angel Soft Professional Series	Georgia-Pacific	16620	**10F286**	20	†
2	450	4 ⅞ in	Angel Soft Professional Series	Georgia-Pacific	16880	**10F284**	80	†
2	450	4 ⅞ in	Angel Soft Professional Series	Georgia-Pacific	16840	**10F285**	40	†
2	450	4 ⅝ in	Tough Guy	Tough Guy	60FG17	**60FG17**	60	
2	451	4 ¾ in	Cottonelle	Kimberly-Clark Professional	17713	**40AY49**	60	* **
2	500	4 ¼ in	Tough Guy	Tough Guy	38C405	**38C405**	48	‡††
2	500	4 ¼ in	Tough Guy	Tough Guy	31TW73	**31TW73**	96	‡††
2	506	4 ¾ in	Scott Essential	Kimberly-Clark Professional	13217	**42EN55**	80	*‡‡
2	550	4 ¾ in	Preference	Georgia-Pacific	18280/01	**2TRN8**	80	†
2	550	4 ¾ in	Preference	Georgia-Pacific	18240/01	**4DJV1**	40	†
2	550	4 ¾ in	Envision	Georgia-Pacific	19880/01	**4TE17**	80	†‡#
2	550	4 ¾ in	Scott Essential	Kimberly-Clark Professional	04460	**40AY51**	80	*# ##
2	1,000	5 ¾ in	Envision	Georgia-Pacific	19448/01	**6UUJ8**	48	

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Brand	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(2) Rolls	Steel	Silver	4 ¾ in	6 in	10 in	6 ¼ in	Georgia-Pacific	57320	**2U257**
(2) Rolls	Plastic	Smoke	—	6 ½ in	10 ¾ in	4 ⅞ in	Tough Guy	22LC64	**22LC64**
(2) Rolls	Plastic	Smoke	4 ¾ in	8 ⅝ in	13 ⅝ in	5 ¾ in	Georgia-Pacific	59206	**4DJV2**
Vertical Double Roll									
(2) Rolls	Steel	Silver	4 ½ in	12 in	6 in	6 ¾ in	Tough Guy	—	**1ECJ9**
(2) Rolls	Steel	Silver	4 ¾ in	12 ¾ in	7 in	6 ¼ in	Georgia-Pacific	57893	**1CF35**
(2) Rolls	Plastic	Black	4 in	13 ⅝ in	6 in	6 ⅝ in	Kimberly-Clark Professional	09021	**506K73**

Holder Style	Dispenser Material	Finish	Color	Brand	Item No.
Toilet Paper Holders					
Double Post	Zamac	Polished	Silver	Tough Guy	**3P895**
Double Post	Zamac	Polished	Silver	Tough Guy	**5W552**
Triple Post	Stainless Steel	Satin	Silver	Tough Guy	**4YRE4**
Triple Post	Zamac	Polished	Silver	Tough Guy	**3P914**

Color	Brand	Item No.
Standard Toilet Paper Roll Spindles		
White	Tough Guy	**3ZHT6**
Silver	Tough Guy	**3ZHT8**

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1PHJ2

42EN65

245DE3

1ECK1

4DJU7

22LC63

Jumbo Core Toilet Paper Rolls and Dispensers

Jumbo rolls reduce maintenance time by making the need for refills less frequent.

Ply	Roll Length	Roll Dia.	Product Series	Brand	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls								
1	2,000 ft	8 ¾ in	Scott Essential	Kimberly-Clark Professional	07223	**42EN49**	12	‡#††
1	2,000 ft	9 in	Pacific Blue Basic	Georgia-Pacific	13718	**1PHJ1**	8	*
1	2,000 ft	9 in	Tough Guy	Tough Guy	31KY15	**31KY15**	12	†**
1	2,000 ft	9 in	Tough Guy	Tough Guy	36P063	**36P063**	8	†**
1	4,000 ft	12 in	Tough Guy	Tough Guy	31KY18	**31KY18**	6	†**
2	750 ft	9 in	Tough Guy	Tough Guy	31KY16	**31KY16**	12	†**
2	750 ft	9 in	Tough Guy	Tough Guy	36P067	**36P067**	8	†**
2	1,000 ft	9 in	Tough Guy	Tough Guy	60FG18	**60FG18**	12	
2	1,000 ft	9 in	Envision	Georgia-Pacific	12798	**1PHJ2**	8	†
2	1,000 ft	9 in	Tough Guy	Tough Guy	31KY17	**31KY17**	12	†**
2	1,000 ft	9 in	Tough Guy	Tough Guy	36P064	**36P064**	8	†**
2	1,000 ft	9 in	GP Georgia-Pacific Professional Series	Georgia-Pacific	2172114	**39FK94**	4	*
2	1,000 ft	9 ⅜ in	Scott Essential	Kimberly-Clark Professional	07805	**40AY50**	12	‡#††
2	1,000 ft	9 ⅜ in	Scott Essential	Kimberly-Clark Professional	67805	**42EN65**	12	‡#‡‡
2	2,000 ft	12 in	Tough Guy	Tough Guy	36P066	**36P066**	6	†**
2	2,000 ft	12 in	Pacific Blue Basic	Georgia-Pacific	13102	**4KT77**	6	*

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Brand	Mfr. Model	Item No.
Toilet Paper Dispensers									
Horizontal Double Roll									
(1) Roll with Stub Roll	Plastic	Smoke	9 ⅜ in	13 ⅞ in	16 in	5 ¾ in	Kimberly-Clark Professional	09507	**245DE3**
(1) Roll with Stub Roll	Plastic	Smoke	10 ⅝ in	14 ⅛ in	6 ⅜ in	16 ⅞ in	Georgia-Pacific	58150	**4KT90**
(1) Roll with Stub Roll	Plastic	Smoke	12 in	16 ¾ in	21 ½ in	5 ⅞ in	Georgia-Pacific	59350	**4CJ96**
(2) Rolls	Steel	Silver	9 in	10 ¾ in	20 ½ in	4 ⅞ in	Tough Guy	—	**1ECK1**
(2) Rolls	Plastic	Smoke	9 in	11 ⅞ in	20 ¼ in	4 ¾ in	Tough Guy	22LC65	**22LC65**
(2) Rolls	Plastic	Smoke	9 in	12 ¼ in	20 in	5 ½ in	Georgia-Pacific	59210	**4DJU8**
(2) Rolls	Plastic	Black	9 ⅜ in	13 ⅛ in	20 ½ in	5 ¾ in	Kimberly-Clark Professional	09551	**506K76**
Horizontal Single Roll									
(1) Roll	Steel	Silver	9 in	10 ¾ in	10 ¾ in	4 ½ in	Georgia-Pacific	59448	**32PH99**
(1) Roll	Steel	Silver	9 in	10 ¾ in	10 ¾ in	4 ¾ in	Tough Guy	—	**4YRE5**
(1) Roll	Steel	Silver	12 in	12 ⅞ in	12 ⅝ in	4 ⅞ in	Tough Guy	—	**4YRE6**
(1) Roll	Steel	Silver	12 in	14 ¼ in	4 ½ in	14 ¼ in	Georgia-Pacific	59449	**35MT06**
(1) Roll	Plastic	Smoke	9 in	11 ¼ in	10 ⅝ in	5 ⅜ in	Georgia-Pacific	59009	**4DJU7**
(1) Roll	Plastic	Smoke	9 in	11 ½ in	11 ⅝ in	5 ⅜ in	Tough Guy	22LC63	**22LC63**
(1) Roll	Plastic	Smoke	12 in	14 ¼ in	13 ⅝ in	5 ¾ in	Georgia-Pacific	59012	**4DJU9**
(1) Roll	Plastic	Smoke	12 in	15 ⅜ in	14 ½ in	5 ⅛ in	Tough Guy	—	**4YRE3**

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SofPull Center Pull Toilet Paper Rolls and Dispensers

Center pull, one-at-a-time dispensing using double- or single-roll dispensers.

19YA04

15F501

5UWL9

No. of Sheets	Roll Dia.	Product Series	Ply	Mfr. Model	Item No.	Pkg. Qty.	
Toilet Paper Rolls							
500	5 ⅞ in	SofPull	2	19516	**32GV95**	16	*†‡#
1,000	8 ⅛ in	SofPull	2	19510	**19YA04**	6	*†‡#

Dispenser Cap.	Dispenser Material	Color	For Max. Roll Dia.	H	W	D	Mfr. Model	Item No.
Toilet Paper Dispensers								
Horizontal Double Roll								
(2) Rolls	Plastic	Smoke	5 ⅞ in	9 in	16 ⅛ in	7 in	56516	**32GV86**
(2) Rolls	Plastic	White	5 ⅞ in	9 in	16 ⅛ in	7 in	56518	**32GV88**
(2) Rolls	Plastic	Blue	8 ⅛ in	10 ¾ in	20 ⅛ in	7 in	56508	**15F499**
(2) Rolls	Plastic	Smoke	8 ⅛ in	10 ¾ in	20 ⅛ in	7 in	56509	**15F501**
Horizontal Single Roll								
(1) Roll	Plastic	Smoke	5 ⅞ in	9 in	8 ¾ in	7 in	56513	**32GV83**
(1) Roll	Plastic	White	5 ⅞ in	9 in	8 ¾ in	7 in	56515	**32GV85**
(1) Roll	Plastic	Blue	8 ⅛ in	10 ½ in	10 ½ in	6 ¾ in	56500	**5UWL9**
(1) Roll	Plastic	Smoke	8 ⅛ in	10 ½ in	10 ½ in	6 ¾ in	56501	**5UWN0**
(1) Roll	Plastic	White	8 ⅛ in	11 in	7 ⅜ in	11 ¼ in	56507	**15F492**

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Scan. Order. Done.
Details on page A1.

General Purpose Dry Wipes

Dry wipes absorb spills, clean messes, and dust surfaces. Use as an alternative to cloth towels to help prevent cross-contamination and to paper towels for added strength. Wipes come with different levels of absorbency and strength.

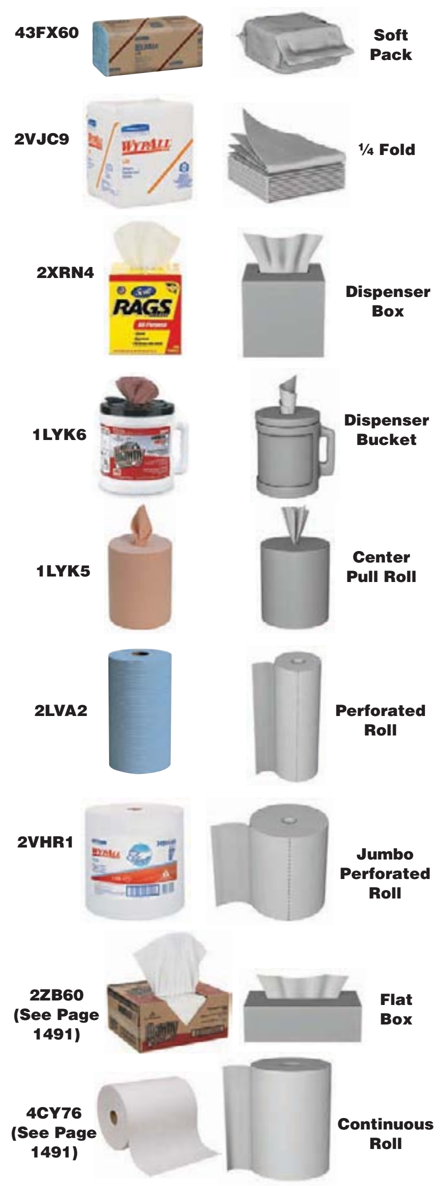
Light-Duty Small Task Wipes—Single-use task wipes are commonly used to clean smaller spills and messes on glass and smooth surfaces.

Medium-Duty Routine Task Wipes—Wipes have a cloth-like softness for cleaning and polishing, as well as wiping hands and faces.

Heavy-Duty Large Task Wipes—Clean large surface areas on equipment and in vehicles. Disposable, absorbent alternative to economy rags.

Extra Heavy-Duty Repeat Task Wipes—Resistant to harsh cleaning agents, these wipes can be used many times before discarding. Use on abrasive surfaces to clean up oil, dirt, and grime. An alternative to premium rags and shop towels.

Dispensing Forms



Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.	
Light-Duty Small Task Wipes									
¼ Fold									
Heavy	Good	Brawny Professional P200	13 in x 13 in	50	Tan	29922	**4ZA81**	12	*†
Heavy	Good	Brawny Professional P200	13 in x 13 in	80	White	29000	**1WH75**	12	
Heavy	Good	WYPALL® L20	12 ½ in x 14 ½ in	68	Tan	47011	**36VC07**	1	
Heavy	Good	WYPALL L20	12 in x 12 ½ in	68	White	47022	**2VHV6**	12	
Dispenser Box									
Heavy	Good	Brawny Professional P200	9 ¼ in x 16 ¾ in	80	Tan	29971	**6RA65**	10	
Heavy	Good	Brawny Professional P200	9 ¼ in x 16 ½ in	166	White	29050/03	**6YE63**	5	
Heavy	Good	WYPALL L20	12 ½ in x 16 ¾ in	176	White	34607	**2VHV4**	1	
Light	Fair	Brawny Professional P100	8 in x 12 ½ in	148	Tan	29222	**6EMX9**	20	*†
Light	Fair	Brawny Professional P100	8 in x 12 ½ in	148	White	29221	**4ACU4**	20	
Light	Fair	WYPALL L10	9 in x 10 ¼ in	125	White	05320	**2VHV2**	18	
Light	Fair	WYPALL L10	10 ¼ in x 12 in	125	White	05322	**2VHV3**	18	
Soft Pack									
Light	Fair	WYPALL L10	9 ¼ in x 10 ½ in	140	Blue	05120	**43FX60**	16	
Medium-Duty Routine Task Wipes									
¼ Fold									
Super Heavy	Good	Brawny Professional A400	13 in x 13 in	50	White	29215	**4CJ84**	16	
Super Heavy	Good	Brawny Professional D400	12 ½ in × 13 in	65	Tan	20000	**4XFW1**	18	
Super Heavy	Good	Tough Guy G40	12 in x 12 ½ in	56	White	52WY25	**52WY25**	18	
Super Heavy	Good	WYPALL L40	12 in x 12 ½ in	56	Blue	05776	**2VJC6**	12	
Super Heavy	Good	WYPALL L40	12 in x 12 ½ in	56	White	05701	**2VJC4**	18	
Moderate	Good	WYPALL L30	12 in x 12 ½ in	90	White	05812	**2VJC9**	12	
Dispenser Box									
Super Heavy	Good	Brawny Professional A400	9 ¼ in x 16 ¾ in	66	White	29290/03	**6YE62**	10	
Super Heavy	Good	Brawny Professional D400	9 ¼ in x 16 in	90	Orange	20072	**6RA66**	10	
Super Heavy	Good	Brawny Professional D400	9 ¼ in x 16 in	90	White	20070/03	**6YE60**	10	
Super Heavy	Good	Brawny Professional D400	9 ¼ in x 12 in	120	Tan	20077	**4XFW2**	10	
Super Heavy	Good	Brawny Professional D400	12 ½ in x 16 ¼ in	152	White	20080/03	**6YE61**	1	
Heavy	Best	Scott Rags In A Box	10 in x 12 in	200	White	75260	**2XRN4**	1	
Super Heavy	Good	Tough Guy G40	9 in x 16 ½ in	90	White	32KL15	**32KL15**	5	
Super Heavy	Good	Tough Guy G40	9 in x 15 in	200	White	39M982	**39M982**	1	
Super Heavy	Good	Tough Guy G40	9 in x 12 in	200	Blue	32RT57	**32RT57**	1	
Super Heavy	Good	WYPALL L40	9 ¾ in x 16 ½ in	100	White	05790	**2VJC7**	1	
Super Heavy	Good	WYPALL L40	9 ¾ in x 16 ½ in	100	Blue	05740	**2VJC5**	9	
Super Heavy	Good	WYPALL L40	10 in x 10 ¾ in	90	White	03046	**2LUZ3**	9	
Moderate	Good	Brawny Professional A300	9 ¼ in x 12 ¼ in	128	White	29518	**29PJ05**	10	
Moderate	Good	Brawny Professional D300	9 ¼ in x 16 in	110	White	20075	**6RA67**	10	
Moderate	Good	WYPALL L30	9 ¾ in x 16 ½ in	120	White	05816	**2VJD1**	1	
Moderate	Good	WYPALL L30	9 ¾ in x 16 ½ in	100	White	05800	**2LUZ5**	8	
Moderate	Good	WYPALL L30	9 ¾ in x 10 in	120	White	03086	**2LUZ4**	10	
Dispenser Bucket									
Super Heavy	Good	Brawny Professional D400	10 in x 13 in	200	Orange	20040	**1LYK6**	2	
Center Pull Roll									
Super Heavy	Good	Brawny Professional D400	10 in x 13 in	200	Orange	20041	**1LYK5**	2	
Super Heavy	Good	Brawny Professional D400	7 ¾ in x 13 ¼ in	260	White	20050	**4WK83**	4	
Moderate	Good	Brawny Professional A300	9 in x 13 ¼ in	50	White	44500	**4CJ92**	6	
Moderate	Good	Brawny Professional D300	10 in x 13 in	300	White	20045	**2EAW9**	2	
Moderate	Good	WYPALL L30	9 ¾ in x 15 ¼ in	300	White	05820	**36VC05**	2	
Jumbo Perforated Roll									
Super Heavy	Good	Brawny® Professional D400	9 ¾ in x 13 ¼ in	800	White	20060	**5JG36**	1	
Super Heavy	Good	Tough Guy G40	9 in x 15 in	800	White	39M983	**39M983**	1	
Super Heavy	Good	WYPALL L40	12 ½ in x 13 ½ in	750	White	05007	**2VJC3**	1	
Moderate	Good	WYPALL L30	12 ½ in x 13 ¼ in	950	White	05841	**2VJD2**	1	
Heavy-Duty Large Task Wipes									
¼ Fold									
Moderate	Better	WYPALL X60	11 in x 23 in	100	White	34770	**2LUZ6**	9	
Moderate	Better	WYPALL X60	12 in x 12 ½ in	76	White	34865	**2LUZ7**	12	
Dispenser Box									
Moderate	Better	Brawny Professional H600	9 in x 12 ½ in	200	White	29316	**29PJ01**	10	
Moderate	Better	Tough Guy G60	9 in x 16 ¾ in	126	White	52WY22	**52WY22**	1	
Moderate	Better	WYPALL X60	8 ¼ in x 16 ¾ in	126	White	34790	**2VHP9**	10	
Light	Good	WYPALL X50	8 ¼ in x 12 ½ in	176	White	83550	**2VHU2**	10	
Perforated Roll									
Moderate	Better	Tough Guy G60	11 in x 13 in	800	White	52WY23	**52WY23**	1	
Moderate	Better	WYPALL X60	19 ½ in x 13 ½ in	130	Blue	35431	**2LVA2**	6	
Moderate	Better	WYPALL X60	19 ½ in x 13 ½ in	130	White	35421	**2LVA1**	6	
Moderate	Better	WYPALL X60	9 ¾ in x 13 ½ in	130	White	35401	**2LUZ8**	12	
Moderate	Better	WYPALL X60	9 ¾ in x 13 ½ in	130	Blue	35411	**2LUZ9**	12	
Jumbo Perforated Roll									
Moderate	Better	Brawny Professional H600	6 ¾ in x 9 ½ in	1,776	White	29317	**29PJ02**	1	
Moderate	Better	WYPALL X60	12 ½ in x 13 ½ in	1,100	White	34955	**2VHR1**	1	
Moderate	Better	WYPALL X60	12 ½ in x 13 ½ in	1,100	Blue	34965	**2VHR2**	1	
Light	Good	WYPALL X50	9 ¾ in x 13 in	1,100	White	35015	**2VHR4**	1	
Extra Heavy-Duty Repeat Task Wipes									
¼ Fold									
Maximum	Superior	Tough Guy G100	15 in x 17 in	50	White	52WY21	**52WY21**	5	
Super Heavy	Excellent	WYPALL X80	12 in x 12 ½ in	50	White	41026	**2VHT4**	4	
Super Heavy	Excellent	WYPALL X80	12 in x 12 ½ in	50	Red	41029	**2VHT5**	4	
Heavy	Best	Brawny Professional H700	12 ½ in x 13 in	70	White	25024	**4ZA80**	12	
Heavy	Best	WYPALL X70	12 in x 12 ½ in	76	White	41200	**2LVA5**	12	
Dispenser Box									
Maximum	Superior	Brawny Professional F900	9 in x 16 ½ in	72	White	29608	**34EW43**	10	‡#
Maximum	Superior	WYPALL X90	8 ¼ in x 16 ¾ in	68	Blue	12890	**45AR04**	5	
Maximum	Superior	WYPALL X90	11 in x 16 ¾ in	136	Blue	12891	**45AR05**	1	
Super Heavy	Excellent	Tough Guy G80	9 in x 16 ½ in	80	Blue	32KL18	**32KL18**	5	
Super Heavy	Excellent	WYPALL X80	8 ¼ in x 16 ¾ in	80	Red	05930	**2VHT2**	5	
Super Heavy	Excellent	WYPALL X80	8 ¼ in x 16 ¾ in	80	White	41048	**2VHT9**	5	
Super Heavy	Excellent	WYPALL X80	11 in x 16 ¾ in	160	Blue	41041	**2VHT6**	1	
Super Heavy	Excellent	WYPALL X80	11 in x 16 ¾ in	160	White	41044	**2VHT8**	1	
Heavy	Best	Brawny Professional H700	9 in x 12 ½ in	176	White	29322	**29PJ04**	10	
Heavy	Best	Brawny Professional H700	9 in x 16 ½ in	100	White	25070	**1FC58**	5	
Heavy	Best	Tough Guy G70	9 in x 16 ½ in	100	White	32KL16	**32KL16**	5	
Heavy	Best	WYPALL X70	8 ¼ in x 16 ¾ in	100	White	41455	**2VHR8**	10	
Heavy	Best	WYPALL X70	8 ¼ in x 16 ¾ in	100	Blue	41412	**2LVA7**	10	

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 # Made from a Rapidly Renewable Resource.

CONTINUED

CONTINUED

General Purpose Dry Wipes

Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.	
Extra Heavy-Duty Repeat Task Wipes (continued)									
Flat Box									
Heavy	Best	Brawny Professional H700	13 in x 15 in	300	White	25023	**2ZB60**	1	
Heavy	Best	WYPALL X70	15 in x 16 ½ in	300	White	41100	**2LVA3**	1	
Center Pull Roll									
Heavy	Best	WYPALL X70	9 ¾ in x 13 ½ in	275	White	41702	**2LVA9**	3	
Perforated Roll									
Super Heavy	Excellent	Brawny Professional F900	6 ¾ in x 10 ½ in	690	White	29602	**34EW44**	2	‡#
Jumbo Perforated Roll									
Maximum	Superior	WYPALL X90	11 ¾ in x 12 ½ in	450	Blue	12889	**45AR03**	1	
Super Heavy	Excellent	Tough Guy G80	11 in x 13 in	475	Blue	32KL19	**32KL19**	1	
Super Heavy	Excellent	WYPALL X80	12 ½ in x 13 in	475	White	41025	**2VHT3**	1	
Super Heavy	Excellent	WYPALL X80	12 ½ in x 13 in	475	Blue	41043	**2VHT7**	1	
Super Heavy	Excellent	WYPALL X80	12 ½ in x 13 in	475	Red	41055	**2VHU1**	1	
Heavy	Best	Brawny Professional H700	9 ¾ in x 13 ¼ in	800	White	25060	**5JG37**	1	
Heavy	Best	Tough Guy G70	11 in x 13 in	800	White	32KL17	**32KL17**	1	
Heavy	Best	WYPALL X70	12 ½ in x 13 ½ in	870	White	41600	**2VHR9**	1	
Heavy	Best	WYPALL X70	12 ½ in x 13 ½ in	870	Blue	41611	**2VHT1**	1	

‡ USDA Certified Biobased Product. # Made from a Rapidly Renewable Resource.

2ZB60

34EW44

2VHT1

Food Service Towels

Use in kitchens and restaurants to clean surfaces like bars, grills, dishes, and tables. They're disposable, so they're a more sanitary alternative to using cloth rags or wipes.

Product Series	Sheet Size	Number of Sheets	Color	Mfr. Model	Item No.
¼ Fold					
WYPALL X50	12 ½ in x 23 ½ in	200	Blue/White	06053	**43FX45**
WYPALL X70	12 ½ in x 23 ½ in	300	Red	06354	**43FX49**
Dispenser Box					
Dixie Ultra F900	12 ¾ in x 21 in	144	White	29662	**34EW54**
Dixie Ultra F700	12 ¾ in x 21 in	150	White	29651	**34EW55**
Dixie H700	12 in x 23 ½ in	150	White	29426	**1FC60**
Dixie H700	13 in x 23 ½ in	150	Green/White	29416	**4KT89**
Dixie H700	13 in x 23 ½ in	150	Red/White	29423	**12G821**

43FX45

4KT89

5UWN1

12G815

Automatic Dry Wipe Dispenser & Rolls

Continuous-roll, wall-mount dispenser is sensor-activated to dispense dry wipes automatically. Touchless operation reduces the chance of cross-contamination and the spread of germs. Use task wipes for routine cleaning and polishing, as well as wiping hands and faces.

Cap.	Material	Color	W	D	Product Series	Mfr. Model	Item No.
Dry Wipe Dispenser							
(1) Roll	Plastic	Gray	14 ½ in	9 ¼ in	GP PRO Brawny Professional	59465A	**5UWN1**

Absorbency Level	Wet Strength Level	Product Series	Color	Roll L	Mfr. Model	Item No.	Pkg. Qty.
Medium-Duty Routine Task Wipes, Continuous Roll							
Super Heavy	Good	Brawny Professional D400	White	250 ft	20065	**4CY76**	6
Super Heavy	Good	Brawny Professional D400	Orange	250 ft	20067	**4CY77**	6
Moderate	Good	Brawny Professional A300	White	220 ft	29516	**12G815**	6
Moderate	Good	Brawny Professional D300	White	330 ft	20035	**38XD67**	6

2XRN3

1PHH9

2XRN1

Perforated Dry Wipe Rolls

Absorb spills, clean messes, and dust surfaces. Commonly used as an alternative to cloth towels to help prevent cross-contamination. These perforated towels are also used as a stronger alternative to paper towels.

Absorbency Level	Wet Strength Level	Product Series	Sheet Size	No. of Sheets	Color	Mfr. Model	Item No.	Pkg. Qty.
Medium-Duty Routine Task Wipes								
Super Heavy	Good	Scott Rags	9 ½ in x 11 in	55	White	75230	**43FX05**	30
Super Heavy	Good	Scott Shop Towels	9 ½ in x 11 in	55	Blue	75130	**2XRN3**	1
Moderate	Good	Brawny Professional D300	9 ¼ in x 11 in	84	White	20085	**1PHH9**	20
Moderate	Good	WYPALL L30	10 ½ in x 11 in	70	White	05843	**2XRN1**	24

Manual Dry Wipe Dispensers

Store dry wipes and keep them located close to work locations. Dispensers allow users to take only the amount of dry wipes that they need.

Description	Mounting	Cap.	Material	Color	W	D	Product Series	Mfr. Model	Item No.
Jumbo-Roll Dispensers	Floor	(1) Roll	Metal	Black	18 ½ in	16 51/64 in	WypAll	80596	**2VJA3**
Jumbo-Roll Dispensers	Floor	(1) Roll	Metal	Blue	19 ½ in	32 in	GP Georgia-Pacific	54565	**5UWN2**
Jumbo-Roll Dispensers	Wall	(1) Roll	Metal	Black	16 ¾ in	8 51/64 in	WypAll	80579	**2VJA2**
Jumbo-Roll Dispensers	Wall	(1) Roll	Metal	Blue	13 ⅜ in	12 ⅛ in	GP Georgia-Pacific	54566	**5UWN3**
Pop-Up-Box Dispensers	Wall	(1) Box	Metal	White	10 ¾ in	⅜ in	Multiplate	50313	**1FC62**
Pop-Up-Box Dispensers	Wall	(148) Wipes	Metal	Gray	5 ⅝ in	5 ½ in	GP Georgia-Pacific	54912	**6EMY3**
Center Pull Roll Dispenser	Wall	(1) Roll	Plastic	Black	10 ¼ in	10 ¾ in	GP Georgia-Pacific	54050	**3JH09**

2VJA3

1FC62

6EMY3

3JH09

Cloth Rags and Shop Towels

Cloth rags clean up paint spills, apply stains and varnishes, and polish and dust surfaces. Shop towels clean oil, engine fluids, and grease from hands and tools.

21HC63 5LVD0

Primary Cleaning Application	Style	Material	Condition	Color	Size	10 lb Item No.	25 lb Item No.	50 lb Item No.	12 ct Item No.
Cloth Rags									
For Dusting	Terry Cloth	Cotton	New	White	Varies	—	**3U588**	—	—
For Dusting and Polishing	Flannel	Cotton	Reclaimed	White	Varies	—	**13Y366**	**13Y367**	—
For General Purpose Cleaning	Assorted	Cotton Blend	Reclaimed	Assorted	Varies	—	—	**5LVA9**	—
	Assorted	Cotton	Reclaimed	Assorted	Varies	—	**3U590**	—	—
	Flannel	Cotton	Reclaimed	Assorted	Varies	**13Y351**	**13Y352**	**5LVD0**	—
	Sheeting	Cotton	Reclaimed	White	Varies	—	**13Y364**	**13Y365**	—
	Sheeting	Cotton	New	White	Varies	—	**3U586**	—	—
	Sweatshirt	Cotton	Reclaimed	White	Varies	—	**13Y354**	**13Y355**	—
	Sweatshirt	Cotton	Reclaimed	Assorted	Varies	**13Y345**	**13Y348**	**5LVC4**	—
	Terry Cloth	Cotton	New	White	14 in x 17 in	—	—	—	**4HP38**
	Terry Cloth	Cotton Blend	Reclaimed	Assorted	Varies	**5LVD3**	**3U591**	—	—
	Terry Cloth	Cotton	Reclaimed	White	14 in x 17 in	**13Y371**	—	**13Y373**	—
	Terry Cloth	Cotton	New	White	Varies	—	**20G116**	—	—
	T-Shirt	Cotton Blend	Reclaimed	Assorted	Varies	**5LVA6**	**5LVA7**	—	—
	T-Shirt	Cotton	Reclaimed	Assorted	Varies	—	—	**13Y349**	—
	T-Shirt	Cotton	New	Assorted	Varies	—	**9JZ92**	—	—
	T-Shirt	Cotton T-shirt	Virgin	White	Varies	—	**20G115**	—	—
For Glass and Mirror Cleaning	Huck Towel	Cotton	Reclaimed	Blue	Varies	—	**8CGK7**	—	—
	Huck Towel	Cotton	Reclaimed	Assorted	Varies	—	**3U587**	—	—
For Oil and Grease	Corduroy	Cotton	Reclaimed	Assorted	Varies	**5LVD7**	**5LVD9**	—	—
For Painting and Staining	T-Shirt	Cotton Blend	Reclaimed	White	Varies	**13Y360**	**3U585**	**13Y362**	—
	T-Shirt	Washed Cotton	New	White	Varies	—	**16M204**	—	—
	T-Shirt	Cotton	New	White	Varies	—	**21HC63**	—	—

Primary Cleaning Application	Size	Condition	Color	Package Type	Lint Level	Item No.
Shop Towels						
For Oil and Grease	12 in x 12 in	New	Red	Bag	Standard	**4HP37**
For Oil and Grease	12 in x 12 in	New	Red	Carton	Standard	**13Y374**

2LVD1 2VHX3

Critical Area and Delicate Task Wipes

- Low lint

Soft and nonabrasive, wipes are used on delicate items like small parts and lab instruments and won't leave fibers behind on electronics or lenses.

KIMTECH Prep ScottPure—Cloth-like softness with high absorbency for cleaning and disinfecting.

WypAll—Wipes are acid-, base-, and solvent-resistant to prepare surfaces and clean up oil, grease, and ink.

Product Series	Dispensing Form	Sheet Size	No. of Sheets	Material	Mfr. Model	Item No.	Pkg. Qty.
White							
KIMTECH Prep ScottPure	¼ Fold	12 in x 15 in	100	Spunlace	06121	**2VHW7**	4
	Dispenser Box	12 in x 23 in	50	Spunlace	06151	**2VHW8**	8
	Center Pull Roll	7 in x 7 in	225	Spunlace	06193	**2LVD1**	6
Blue							
WypAll	¼ Fold	12 ½ in x 12 in	66	Meltblown	33560	**2VHX5**	8
	Dispenser Box	12 in x 16 ¾ in	180	Meltblown	33352	**2VHX3**	1
	Dispenser Box	8 ¾ in x 16 ¾ in	100	Meltblown	33570	**2VHX6**	5
	Jumbo Perforated Roll	9 ¾ in x 13 ½ in	717	Polypropylene	33241	**2LVD3**	1

2VHX4 30N522 30N527

Cleanroom Dry Wipes

- Low lint

Commonly used to remove surface contaminants and spills in controlled environments with low levels of pollutants like dust, airborne microbes, and chemical vapors.

KIMTECH Pure W4—Acid-, base-, and solvent-resistant. Wipes are double-bagged in an antistatic package.

KIMTECH Pure W5—High absorption rate and capacity. Double-bagged in an antistatic package.

Tough Guy—Laser-sealed edges.

Product Series	Sheet Size	No. of Sheets	Material	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
ISO 4 (Class 10)								
KIMTECH PURE W4	9 in x 9 in	100	Meltblown	White	Kimberly-Clark	33390	**2VHX4**	5
KIMTECH PURE W4	12 in x 12 in	100	Meltblown	White	Kimberly-Clark	33330	**2VHX2**	5
Tough Guy	6 in x 6 in	100	Cellulose, Polyester	White	Tough Guy	30N522	**30N522**	1
Tough Guy	9 in x 9 in	300	Cellulose, Polyester	White	Tough Guy	30N523	**30N523**	1
ISO 5 (Class 100)								
KIMTECH PURE W5	9 in x 9 in	100	Spunlace	White	Kimberly-Clark	06179	**2VHX1**	5
Tough Guy	9 in x 9 in	150	Polyester Knit	White	Tough Guy	30N527	**30N527**	1
Tough Guy	9 in x 9 in	150	Polyester Knit	White	Tough Guy	30N528	**30N528**	1
Tough Guy	12 in x 12 in	150	Cellulose, Polyester	White	Tough Guy	30N524	**30N524**	1
Tough Guy	12 in x 12 in	100	Hydro-entangled (HEF)	White	Tough Guy	30N526	**30N526**	1

56KE18

2VHZ9

Dry Wipe Bucket Systems

Bucket systems hold dry wipes while cleaning solvents of choice can be added to create wet wipes for appropriate cleaning tasks. **Starter Kits** are for controlled chemical handling and include closed-top dispensing bucket and dry-wipe rolls. **Wipe Refills** are for use in dry-wipe bucket dispenser systems. **Bucket System Dispensers** have tight-fitting, resealable lids to help prevent spills. Dry wipes are not included.

Product Series	Sheet Size	No. of Sheets	Color	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bucket System Starter Kits							
Kimtech WetTask	12 in x 6 in	90	White	Kimberly-Clark	6411	**60LY65**	6
Chem-Ready	10 in x 12 in	90	White	Everwipe	B-01-690	**56KE18**	6
Bucket System Dry Wipe Refills							
Kimtech WetTask	9 in x 15 in	275	White	Kimberly-Clark	06006	**2VHU7**	2
Pacific Blue Select	12 in x 12 in	90	White	Georgia-Pacific	29700	**6EMY0**	6
HYGEN	12 in x 12 in	600	White	Rubbermaid	2134283	**60JA03**	10

Product Series	Mounting	Cap.	Material	Color	Dispenser Operation	Brand	Mfr. Model	Item No.	Pkg. Qty.
Bucket System Dispensers									
GP PRO Pacific Blue Select	Surface	(90) Wipes	Plastic	White	Manual	Georgia-Pacific	54006	**6EMY1**	6
Kimtech	Surface	(275) Wipes	Plastic	Blue	Manual	Kimberly-Clark	09361	**2VHZ9**	2
HYGEN	—	—	—	White	—	Rubbermaid	2135007	**60JA04**	4

EXCEL

XLERATOR Touchless Hand Dryers

- Up to 95% cost savings compared to paper towels
- Use up to 80% less energy than conventional models
- UL Listed and CE Certified

Innovative hand dryers feature reliable performance and can dry hands up to 3 times faster. These industrial models come with adjustable speed and sound. BuildingGreen Approved and can help you qualify for LEED v4 credits and Green Globe Certification.

Heated Air—Feature adjustable heat setting controls and an externally visible LED service light.
- 8 sec. dry time
- 3.7 Wh energy per use

Non-Heated Air—No-heat technology helps provide reliable and highly-efficient performance.
- 10 sec. dry time
- 1.7 Wh energy per use

ThinAir—Surface-mount design has a slim profile, adjustable heat setting, and externally visible service LED.
- 14 sec. dry time
- 3.7 Wh energy per use
- C-UL Listed

Accessories—Wall Guards 15Z471, 15Z472, and 38G831 feature an antimicrobial surface. Xchanger Combo Kits 38G830 and 38G829 include a recess accessory.

455A05

455A93

455C34

Nozzle Type	Finish	Color	Cover Material	Activator	Voltage	Amps	Item No.
Industrial High-Speed, Energy-Efficient Hand Dryers							
XLERATOR - Heated Air							
Fixed	Smooth	White	BMC	Automatic	110 to 120	11.3/12.2	**455A05**
Fixed	Epoxy Enamel	White	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A13**
Fixed	Textured Graphite	Gray	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A21**
Fixed	Brushed	Silver	Stainless Steel	Automatic	110 to 120	11.3/12.2	**455A29**
XLERATOR - Non-Heated Air							
Fixed	Smooth	White	BMC	Automatic	110 to 120	11.3/12.2	**455A69**
Fixed	Epoxy Enamel	White	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A77**
Fixed	Textured Graphite	Gray	Zinc Diecast	Automatic	110 to 120	11.3/12.2	**455A85**
Fixed	Brushed	Silver	Stainless Steel	Automatic	110 to 120	11.3/12.2	**455A93**
Industrial Surface-Mounted, ADA-Compliant Hand Dryer							
ThinAir Hand Dryer - Heated Air							
Fixed	Smooth	White	ABS Plastic	Automatic	110 to 120	7/7.7	**455C34**

Nozzle Type	Color	Item No.
Accessories		
HEPA Filter Retrofit Kit	Black	**38A941**
Noise-Reducing Nozzle	Gray	**3PDE6**
Wall Guard	White	**15Z471**
Wall Guard	Black	**15Z472**
Wall Guard	Silver	**38G831**
Xchanger Combo Kit, ADA Height	Silver	**38G830**
Xchanger Combo Kit, Standard	Silver	**38G829**
ADA Recess Kit	Silver	**3DYH4**

WORLD DRYER NOVA®

Hand Dryers

- 30 sec. dry time
- UL, C-UL Listed

Industrial—Reliable, long life dryers each have a vandal-resistant enclosure.

Commercial Low-Profile—Compact dryers have automatic infrared sensors. 56EE50 is ADA Compliant.

Commercial Low-Noise—Brushless motor for quiet operation and long life in sound sensitive areas.

8DWJ5

56EE51

56EE49

Nozzle Type	Finish	Color	Cover Material	Activator	Dry Time	Voltage	Amps	Brand	Item No.
Industrial									
Fixed	Painted	White	Steel	Push Button	30 sec	115	20	World Dryer	**56EE52**
Fixed	Stainless Steel	Silver	Stainless Steel	Push Button	30 sec	115	20	World Dryer	**8DWJ5**
Commercial Low-Profile									
Integral	Epoxy	White	Cast Aluminum	Automatic	30 sec	100 to 240	8/7/6	Nova	**56EE50**
Integral	Painted	White	Steel	Automatic	30 sec	120/208/240	15/10/8.7	Nova	**56EE51**
Commercial Low-Noise									
Fixed	Epoxy Enamel	White	Cast Aluminum	Automatic	30 sec	120	15	Nova	**56EE49**

dyson

Airblade Hand Dryers

- 110 to 127V
- Integral nozzle

Touch-free design provides an extremely fast and hygienic way to dry hands. 50% quieter than original Dyson Airblade dryers and tough enough for high-traffic areas. HEPA filter removes 99.97% of bacteria from air used to dry hands. Engineered to fit a variety of restroom environments. 489J80, 489J76, and 489J78 are tap-operated combination units that allow you to wash and dry hands at the sink.

20RX04

52XJ67

489J76

Description	Cover Material	ADA Compliant	Finish	Color	Activator	Item No.
Wall-Mounted Hand Dryers - 12 sec Dry Time*						
Hands-in Model	Polycarbonate ABS	Yes	Antimicrobial	Gray	Infrared Sensor	**20RX04**
Hands-in Model	Polycarbonate ABS	Yes	Antimicrobial	White	Infrared Sensor	**20RX05**
Hands-under Model	Polycarbonate ABS	Yes	Antimicrobial	Silver	Capacitive Sensor	**52XJ67**
Hands-under Model	Polycarbonate ABS	Yes	Antimicrobial	White	Capacitive Sensor	**52XJ68**
Wall-Mounted - Wash/Dry at Sink - 15 sec Dry Time*						
Wash & Dry Combination Unit	Stainless Steel	Yes	Brushed	Silver	Infrared Sensor	**489J80**
Deck-Mounted - Wash/Dry at Sink - 15 sec Dry Time*						
Wash & Dry Combination Unit (short)	Stainless Steel	Yes	Brushed	Silver	Infrared Sensor	**489J76**
Wash & Dry Combination Unit (tall)	Stainless Steel	No	Brushed	Silver	Infrared Sensor	**489J78**

**Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.*

60JE01

2VHR5

Healthcare Dry Wipes

Provide an alternative to fresh linens at shower/safety stations. Multipurpose, absorbent wipes help reduce the cost and inconvenience of laundering and pilferage. ¼-fold wipes are individually poly-wrapped to protect from contamination and moisture.

Description	Material	Sheet Size	Number of Sheets	Product Series/ Brand	Item No.
¼ Fold					
Personal Care	Airlaid	19 ½ in x 39 in	200	Pacific Blue Select/Georgia-Pacific	**6RA68**
		13 in x 10 in	55		**60JE01**
		9 ½ in x 13 in	50		**60JE02**
General Purpose	Double Recreped (DRC)	11 ¾ in x 12 ½ in	90	Tough Guy G30	**39M981** *
Hygienic General Purpose	Hydroknit	10 in x 12 ½ in	26	WYPALL X50	**2VHR5**
			70	WYPALL X60	**2VHR6**
Dispenser Box					
Dry-Up General Purpose	Double Recreped (DRC)	19 ½ in x 42 in	200	WYPALL L40	**2XRN2**
Flat Box					
Shower General Purpose	Hydroknit	20 in x 43 ¾ in	100	WYPALL X60	**2VHR3**

** Pkg. of 12.*

2VEX7

22LC68

Toilet Seat Covers and Dispensers

TOILET SEAT COVERS

Provide a paper tissue layer between restroom visitors and the toilet for sanitary protection. Also called toilet seat liners, these disposable covers are biodegradable and flushable. White color.

DISPENSERS

Mounted inside restroom stalls to help improve hygienic conditions for visitors by holding disposable toilet seat covers.

Fold Type	Sheet Size	Number of Sheets	Color	Item No.	Pkg. Qty.
Toilet Seat Covers					
¼ Fold	16 ¾ in x 14 ⅛ in	200	White	**2VEX5**	25
½ Fold	16 ¾ in x 14 ⅛ in	250	White	**2VEX6**	20

Fold Type	Material	Cap.	Color	H	W	D	Item No.	Pkg. Qty.
Toilet Seat Cover Dispensers								
¼ Fold	Plastic	(200) Seat Covers	White	12 in	8 ½ in	2 ⅛ in	**2VEX7**	1
½ Fold	Plastic	(500) Seat Covers	White	11 ½ in	16 ⅜ in	2 ⅜ in	**2VEX8**	1
½ Fold	Plastic		Gray	11 ½ in	16 ⅜ in	2 ⅜ in	**2VEX9**	1
½ Fold	Plastic		Smoke	11 ½ in	16 ¼ in	2 ½ in	**22LC68**	1
½ Fold	Stainless Steel	(250) Seat Covers	Silver	11 in	15 ¾ in	2 in	**1ECK2**	1
½ Fold	Steel		Silver	11 ½ in	16 ½ in	1 ⅞ in	**3P916**	1

Feminine Hygiene Receptacles and Bags

RECEPTACLES

Polypropylene Wall-Mounted Receptacle—Features a lightweight, easy-to-lift lid.

Metal Floor Receptacle—Unit fits under the stall wall and has a swing door allowing access from 2 stalls.

Stainless Steel Wall-Mounted Receptacle—Stainless steel satin finish. Hinged lid.

POLYETHYLENE BAGS

Bottom seal for leakproof usage and spill prevention when removing bags. Black color obstructs viewing of contents.

2NXW2

4RCZ4

Description	L	W	H	Item No.	Pkg. Qty.
Receptacles					
Polypropylene Wall-Mounted Receptacle	12 in	5 ¼ in	10 in	**2NXW1**	1
Metal Floor Receptacle	9⅜ in	9 in	11 ½ in	**2NXW2**	1
Stainless Steel Sanitary Napkin Receptacle	9¼ in	9 in	11 in	**1ECK9**	1
Bags					
Polyethylene Sanitary Napkin Receptacle Liners	17 in	17 in	17 in	**4RCZ4**	1000

Feminine Hygiene Supplies and Dispensers

TAMPONS AND SANITARY NAPKINS

Regular Tampax Tampons—100% cotton and/or rayon blend, biodegradable, and flushable. (Outer tube not flushable.)

Maxithins #4 Maxi Pads—Individually boxed.

DISPENSERS

Dual Vendor—Dispenses 15 ct. 3U818 or 4HJ66 pads and 22 ct. 3U822 tampons. Has $0.25 coin release. White color.

Stainless Steel Vendor—Distributes 15 ct. 3U818 or 4HJ66 pads and 25 ct. 3U822 tampons. $0.25 coin release. Made of 18-gauge, 304 stainless steel.

FEMININE HYGIENE STARTER KIT

Contains 60 Maxithins pads, 60 Tampax tampons, and 60 Necessities disposal bags.

8Y411

KRAFT WAXED PAPER BAGS

Use 3U825 with standard swing door napkin receptacle. Use 3U824 with 2NXW1 receptacle. 5FW85 bag with gusset fits Sanisac and 1EKC9 receptacles.

NECESSITIES COURTESY BAGS

Encourage disposal of feminine hygiene, incontinence, and personal care products.

Description	L	W	H	Item No.	Pkg. Qty.
Tampons and Sanitary Napkins					
Regular Tampax Tampons	5 in	¾ in	¾ in	**3U822**	500
Maxithins #4 Maxi Pads	4 ¼ in	3 ¼ in	1 in	**3U818**	250
Maxithins Gards #4 Ultra-Thin Pads	4 ¼ in	3 ¼ in	1 in	**4HJ66**	200
Dispenser					
Dual Vendor, 25 Cent Machine	10 in	6 ¾ in	26 ¼ in	**8Y411**	1
Dual Dispenser					
Stainless Steel Vendor, 25 Cent Machine	10 in	6 ¾ in	26 ¼ in	**4HJ63**	1
Kit					
Feminine Hygiene Starter Kit	4 ¼ in	3 ¼ in	1 in	**3U820**	1
Bags					
Kraft Waxed Paper Sanitary Napkin Receptacle Liners	8 in	8 in	7 in	**3U825**	500
Kraft Waxed Paper Sanitary Napkin Receptacle Liners	9 in	9 in	10 in	**3U824**	250
Kraft Sanitary Napkin Receptacle Liners With Gusset	3½ in	7 ½ in	10 ¼ in	**5FW85**	500
Necessities Courtesy Sanitary Napkin Disposal Bags	7¾ in	3 in	7 ¾ in	**5FW86**	500

1LYJ1

1LYJ2

Door Handle Tissues and Dispensers

DOOR HANDLE TISSUES

Provide a shield between clean hands and dirty door handles to help prevent exposure to germs. Tissues are typically placed in dispensers.

DISPENSERS

Found in restrooms to dispense door handle tissues that are used to open the restroom door. Mount plastic dispensers next to washroom exit doors.

Product Series	Fold Type	Sheet Size	Number of Sheets	Ply	Color	Item No.	Pkg. Qty.
Door Handle Tissues							
SAFE-T-GARD	Multifold	4 in x 10 in	200	2	White	**1LYJ3**	40

Description	Product Series	Fold Type	Cap.	Color	H	W	D	Item No.	Pkg. Qty.
Dispensers									
Door Tissue Dispenser and Receptacle	Pacific Blue Ultra	Multifold	(400) Sheets	Smoke	11 in	6 ½ in	4 in	**1LYJ1**	1
Door Tissue Dispenser	Pacific Blue Ultra	Multifold		Smoke	11 in	6 ½ in	4 in	**1LYJ2**	1

2ELE7

6PXW4

32V428

39F735

1MDU8

Baby Changing Stations and Baby Seat

Baby Changing Stations—Wall-mounted stations with antimicrobial changing surface. Include safety straps, bag/purse hooks, mounting hardware, and a built-in sanitary liner dispenser. 39F735 includes a backer plate with steel hinges.

Baby Wall Seat—Fits inside fitting room or restroom stall without compromising space. Seat has molded-in bag hook, Y-harness safety belt, a concave bed, and head and side support.

Description	Closed H	Closed W	Closed D	Brand	Mfr. Model	Item No.
Baby Changing Stations						
Horizontal, Stainless Steel	20 in	35 ¼ in	4 in	Koala Kare Products	KB110-SSWM	2ELE7
Horizontal, Cream Polypropylene	22 ¼ in	35 ¼ in	4 in	Koala Kare Products	KB200-00	6PXW4
Horizontal, Gray with Stainless Steel Veneer	22 ¼ in	35 ¼ in	4 in	Koala Kare Products	KB200-01SS	32V428
Horizontal, White Granite with Stainless Steel Veneer	22 ¼ in	35 ¼ in	4 in	Koala Kare Products	KB200-05SS	32V429
Horizontal, Polypropylene Baby Changing Station	21 ½ in	33 ½ in	4 in	Rubbermaid Commercial Products	FG781888LPLAT	8YJY2
Horizontal, Polyethylene Baby Changing Station with Door/Wall Plate	15 ⅜ in	34 ¼ in	4 in	Foundations	100-EH-BP	39F735
Horizontal, Polyethylene Baby Changing Station	15 ⅜ in	34 ¼ in	4 in	Foundations	100-EH-SC	35MG24
Baby Wall Seat						
150-lb. Capacity	22 ¼ in	13 ¼ in	3 ⅝ in	Hospeco	67018	1MDU8

Description	For Use With	Brand	Mfr. Model	Item No.
Replacement Parts				
Baby Changing Station Strap	6PXW4, 32V428, 32V429	Koala Kare Products	885	2ERH4
Baby Changing Station Strap	2ELE6	Koala Kare Products	889	2ERH5
Baby Changing Station Shock	2ELE6	Koala Kare Products	877	2ERH7
Baby Changing Station Shock	2ELE7	Koala Kare Products	875	2ERH8
Changing Station Liners for Baby Changing Stations				
3-Ply Biodegradable Paper Liners, Pkg. of 500	2ELE5, 2ELE6, 2ELE7	Koala Kare Products	KB150-99	2ELZ8

Clean-Trace Surface ATP Swabs

Easy to use and simple to learn swabs test for the presence of adenosine triphosphate (ATP) to verify cleaning effectiveness.

Operating Temp. Range	Storage Temp. Range	Shelf Life	Item No.	Pkg. Qty.
59° to 77°F	35.6° to 46.6°F	10 Months Refrigerated	5UXE9	100

Lockable Medicine Cabinet 6MXZ9

Recessed Medicine Cabinet 6MXY2

Round Corner Surface Mount 6MXZ2

Adjustable Tilt Mirror 19UC69

Theft Resistant, Channel Framed Washroom Mirror 14C574

Lock Box Accessory 6MXZ4

KETCHAM MEDICINE CABINETS & ACCESSORIES

Medicine Cabinets and Mirrors

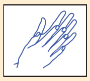
H	W	D	Body Material	Item No.
Lockable Medicine Cabinet				
15 ¾ in	9 ¾ in	4 ¼ in	22 Gauge Satin Stainless Steel	6MXZ9
Recessed Medicine Cabinets				
22 in	16 in	4 ¼ in	26 Gauge White Baked Enamel Steel	6MXY2
26 in	16 in	4 ¼ in	26 Gauge White Baked Enamel Steel	6MXY3
36 in	16 in	4 ¼ in	26 Gauge White Baked Enamel Steel	6MXZ0
Recessed Medicine Cabinet, Tilting				
24 in	18 in	5 ⅝ in	20 Gauge White Baked Enamel Steel	6MYA0
Surface Mount Medicine Cabinets				
19 ½ in	24 in	7 ½ in	20 Gauge White Baked Enamel Steel	6MXY9
22 in	16 in	4 in	26 Gauge White Baked Enamel Steel	6MXY4
24 in	18 in	4 ⅝ in	22 Gauge Type 304 Satin Stainless Steel	33HY74
24 in	24 in	4 ¼ in	20 Gauge White Baked Enamel Steel	14C571
26 in	16 in	4 in	26 Gauge White Baked Enamel Steel	6MXZ1
30 in	24 in	4 ¼ in	20 Gauge White Baked Enamel Steel	14C568
Surface Mount Medicine Cabinet, Tilting				
24 in	18 in	5 ¾ in	20 Gauge White Baked Enamel Steel	6MYA1
Round Corner Surface Mount, Right Hand Medicine Cabinet				
22 in	16 in	4 ¾ in	20 Gauge White Baked Enamel Steel	6MXZ2
Fixed Tilt Washroom Mirrors, ADA Compliant				
30 in	16 in	4 in	20 Gauge Type 304 Satin Stainless Steel	19UC66
36 in	18 in	4 in	20 Gauge Type 304 Satin Stainless Steel	19UC67
36 in	24 in	4 in	20 Gauge Type 304 Satin Stainless Steel	19UC68
Adjustable Tilt Washroom Mirrors, ADA Compliant				
30 in	16 in	¾ in	20 Gauge Type 304 Satin Stainless Steel	19UC69
36 in	18 in	¾ in	20 Gauge Type 304 Satin Stainless Steel	19UC70
36 in	24 in	¾ in	20 Gauge Type 304 Satin Stainless Steel	19UC71
Theft-Resistant, Channel Framed Washroom Mirrors				
22 ¼ in	16 in	½ in	Galvanized Stainless Steel	6MXY5
24 ¼ in	18 in	½ in	Galvanized Stainless Steel	6MXY6
30 ¼ in	18 in	½ in	Galvanized Stainless Steel	6MXY7
36 ¼ in	18 in	½ in	Galvanized Stainless Steel	14C574
36 ¼ in	24 in	½ in	Galvanized Stainless Steel	14C575
Stainless Steel Mirrors				
14 in	10 in	⅟₁₆ in	Bright Annealed Stainless Steel	6MXZ5
20 in	16 in	⅟₁₆ in	Bright Annealed Stainless Steel	6MXZ6
24 in	18 in	⅟₁₆ in	Bright Annealed Stainless Steel	6MXZ7
30 in	16 in	⅟₁₆ in	Bright Annealed Stainless Steel	6MXZ8
30 in	24 in	⅟₁₆ in	Bright Annealed Stainless Steel	33HY70
36 in	18 in	⅟₁₆ in	Bright Annealed Stainless Steel	33HY69
36 in	24 in	⅟₁₆ in	Bright Annealed Stainless Steel	33HY71
Shatter-resistant Washroom Mirrors				
22 ¼ in	16 in	½ in	Galvanized Stainless Steel	33HY66
24 ¼ in	18 in	½ in	Galvanized Stainless Steel	33HY67
30 ¼ in	18 in	½ in	Galvanized Stainless Steel	33HY68
Lock Box Accessory				
5 in	13 in	3 ½ in	20 Gauge White Baked Enamel Steel	6MXZ4

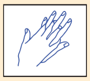
Correct Handwashing Technique

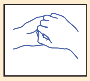
Hands should be cleaned, at minimum, at the end of each work period, prior to breaks, and when visiting the bathroom. Developing good handwashing technique is essential to ensure hands are thoroughly clean. After hands are washed, it is also important to make sure that they are thoroughly rinsed and dried to help keep skin from chapping and cracking.

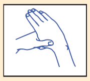
Proper technique includes the following:

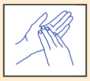
Rub palm to palm


Rub palm over the back of the hand, fingers interlaced


Palm to palm fingers interlaced


Fingers interlocked into palms


Rotational rubbing of thumb clasped into palm


Rotational rubbing of clasped fingers into palm

Foam Dispensing Systems

Touch-free or manual dispensers automatically deliver the correct amount of hand soap. Lockable with large sight window for easy refill check.

3FPN5

1XHN2

3FPN3

Description	TOUCH-FREE 1,200 mL Item No.	Pkg. Qty.	MANUAL 1,250 mL Item No.	Pkg. Qty.
Dispensers				
Dove Gray	**3FPN5**	1	**1XHN2**	1
Refills				
Green Certified Foam Soap	**3FPN3**	2	**55KJ49**	4
Antimicrobial Foam Handwash	**3FPN4**	2	—	
Pink Luxury Foam Soap	—		**55KJ50**	4

11C808

11C813

11C812

54ZU84

54ZU87

1DYD7

Bulk Soap Dispensers

Accept most brands of bulk soap. 11C808 and 11C810 have a refillable bottle for easy filling and cleaning.

Description	Color	Dispenser Mount	Size	H	W	D	Item No.
Transparent Foam Dispensers							
Manual, For use with 11C809	White	Wall	1,000mL	11 in	4 ⅞ in	4 ¾ in	**11C808**
Manual	Smoke Gray	Wall	46 oz	8 ½ in	5 ½ in	4 ½ in	**11C813**
Transparent Liquid Dispensers							
Manual, For use with 11C811	Gray/White	Wall	1,000mL	11 in	4 ⅞ in	4 ¾ in	**11C810**
Manual	White	Wall	46 oz	8 ½ in	5 ½ in	4 ½ in	**11C812**
Push-Up Valve	Silver	Wall	24 oz	7 ¾ in	4 ⅛ in	4 ¼ in	**1DYD5** *
Metal Liquid Soap Dispensers							
Horizontal Push-In Valve, 2" Spout	Silver	Wall	1.2L	4 ¾ in	8 3⁄16 in	2 ⅞ in	**54ZU85** *
Vertical Push-In Valve, 2" Spout	Silver	Wall	1.2L	8 3⁄16 in	4 ¾ in	2 ⅞ in	**54ZU84** *
Replacement Brass Valve for 54ZU85 and 54ZU84	Silver	—	—	4 in	¾ in	1"	**1DYD9**
Manual	Silver	Counter	32 oz	5 ⅝ in	3 ¼ in	3 ¼ in	**54ZU87** *
Manual	Silver	Counter	32 oz	7 ⅝ in	3 ¼ in	3 ¼ in	**54ZU86** *
Shampoo Dispensers							
Push-In Valve, 3 Reservoir	White	Wall	400mL	10 ½ in	7 ¾ in	3 ¾ in	**1DYD7** *
Push-In Valve, 2 Reservoir	White	Wall	400mL	10 ½ in	6 ⅛ in	3 ¾ in	**1DYE1** *
Refills							
Replacement Bottle, For Use With 11C808							**11C809**
Replacement Bottle, For Use With 11C810							**11C811**

** ADA Compliant.*

Bulk Hand Soap

- 1-gal. jugs

Tough Guy soap is designed for use in all brands of bulk soap dispensers.

Hygiene Properties	Fragrance	Mfr. Model	Item No.	Pkg. Qty.
Antimicrobial, Moisturizing	Floral Balsam	1887-04	**1XJ5**	4

1PKR2

5EDE0

3AU25

5EDE1

TFX and FMX Dispensing Systems

TFX dispensers offer touch-free operation. FMX dispensers manually dispense soaps with 1-hand push operation.

5EDD8—Antimicrobial Skin Cleanser refill for use with Dispenser 5EDE0. Meets protocol for surgical scrub, healthcare personnel hand wash, preoperative skin preparation, skin wound and general skin cleansing. Contains a broad-spectrum antimicrobial agent. Reduces microflora after one scrub.

Description	Mfr. Model	Item No.	Pkg. Qty.
1,200 mL			
TFX Dispenser			
Dove Gray	2745	**1PKR2**	1
TFX Refills			
Green Certified Foam Hand Cleaner	5382-02	**3EUF2**	2
Foam Handwash with Advanced Moisturizers	5385-02	**1PKP2**	2
TFX CHG Antimicrobial Skin Cleanser Dispenser			
Gray	2845	**5EDE0**	1
TFX CHG Refill			
Antimicrobial Skin Cleanser	5306-04	**5EDD8**	4
1,250 mL			
FMX-12 Dispenser			
Dove Gray	5160	**3AU25**	1
FMX Refills			
Green Certified Foam Hand Cleaner	5182-04	**56JM35**	4
Foam Handwash with Moisturizers	5185-04	**56JM36**	4
Foaming Antimicrobial Handwash with Moisturizers	5186-04	**56JM37**	4
Foam Hair and Body Wash with Moisturizers	5187-04	**56JM38**	4
2,000 mL			
FMX Dispenser			
Dove Gray	5277-06	**40CP18**	1
FMX Refills			
Foam Handwash with Moisturizers	5285-02	**3AU26**	2
Foaming Antimicrobial Handwash with Moisturizers	5286-02	**3AU27**	2
1,200 mL			
FMX CHG Dispenser			
Dove Gray	5172	**5EDE1**	1
FMX CHG Refill			
Antimicrobial Skin Cleanser	5304-03	**5EDD9**	3

1PKP7 4HGV9 4HGW1

TFX 1200mL Touch-Free Dispensing Systems

Automatically dispense the correct amount of hand soap needed. Large sight window provides easy refill checks. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2740-12	**1PKP7**	1
Black	2730-12	**1PKP8**	1
Nickel	2789	**4HGV9**	1
Brushed Metallic	2799	**4HGW1**	1
Refills			
GOJO Premium Foam Handwash with Skin Conditioners	5361-02	**1PKN8**	2
GOJO Premium Foam Antibacterial Handwash	5362-02	**1PKN9**	2
GOJO Green Certified Foam Hand Cleaner	5665-02	**1LWU3**	2

5VN18 8VMF5

NXT 1000mL Dispensing Systems

SPACE SAVER design takes up less space than traditional 800mL dispensers. Manually dispense hand soap. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2130-06	**5VN18**	1
Black	2135-06	**8VMF5**	1
Refills			
GOJO Deluxe Floral Lotion Soap with Moisturizers	2117-08	**34TC19**	8
GOJO Spa Bath Herbal Body and Hair Shampoo	2152-08	**34TC30**	8

12Z372 12Z364

ADX-12 1250mL Dispensing System

Lockable system manually dispenses hand soap. Features a large sight window for easy refill check and removable pump.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Black/Chrome	8888-06	**12Z372**	1
Refills			
GOJO Clear & Mild Foam Handwash	8811-03	**12Z364**	3
GOJO Citrus Ginger Foam Hand & Showerwash	8813-03	**12Z366**	3
GOJO Botanical Foam Handwash	8816-03	**12Z367**	3

FMX-12 1250mL Dispensing System

Manually dispenses hand soap and features a large sight window for easy refill check. One handed-push operation. ADA Compliant.

3WU72 56JM27

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	5150-06	**3WU72**	1
Refills			
GOJO Luxury Foam Handwash	5161-04	**56JM27**	4
GOJO Luxury Foam Antibacterial Handwash	5162-04	**56JM28**	4
GOJO Green Certified Foam Hand Cleaner	5165-04	**56JM30**	4
GOJO E1 Foam Handwash	5167-04	**56JM31**	4
GOJO Green Certified Foam Hand, Hair & Body Wash	5163-04	**56JM29**	4

15E823 15E821 15E819

LTX 1200mL Touch-Free Dispensing Systems

Dispensers optimize energy use and virtually eliminate the need to change batteries. Lockable units automatically dispense the correct amount of soap needed. Feature large sight window for easy refill check and removable pump. ADA Compliant.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Gray/White	1984-04	**15E823**	1
Black/Chrome	1919-04	**15E821**	1
Refills			
GOJO Clear & Mild Foam Handwash	1911-02	**15E819**	2
GOJO Antibacterial Plum Foam Handwash	1912-02	**52YM12**	2
GOJO Pomeberry Foam Handwash	1916-02	**15E884**	2

1MBH6 16Z906 1AUP2 16Z907

Counter-Mount Dispensers

CXi is a touch-free system; CXT features extended battery life, and CX includes a snap-in-place cartridge system.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
CXi Touch-Free, Chrome	8520-01	**1MBH6**	1
CXT Touch-Free, Chrome	8540-01	**16Z906**	1
CX Manual, Chrome	8500-01	**1AUP2**	1
Refills			
Professional Mild Foam Soap	8545-04	**16Z907**	4
Professional Refreshing Foam Soap	8516-04	**20PV32**	4

Scan. Order. Done.
Details on page A1.

35YX94 35YX98 35YX77 35YX97 35YY02

Professional Skincare and Dispensers

4-pt. system provides skin care for any workplace environment. The system is designed to help keep the skin permanently healthy and consists of the following steps: protect, cleanse, sanitize, and restore.

Description	Brand	Item No.	Pkg. Qty.
Protect - Pre-Work Skin Protection Creams			
Sunscreen - 1L	SC Johnson	35YX91	6
Sunscreen Dispenser - 1,000 mL Refill Size	SC Johnson	35YX94	1
Cleanse - Appropriate Cleanser to Remove Dirt & Irritants			
Shampoo and Body Wash, Rainforest Fragrance - 2,000 mL	SC Johnson	35YX90	4
Shampoo/Body Wash Dispenser - 2,000 mL Refill Size	SC Johnson	35YX98	1
Hand Soap, Fresh Fragrance - 1,000 mL	SC Johnson	35YX77	6
Hand Soap, Fresh Fragrance - 1,250 mL	SC Johnson	35YX81	3
Hand Soap, Fresh Fragrance - 2,000 mL	SC Johnson	35YX80	4
Touch-Free Soap/Sanitizer Dispenser - 1,200 mL Refill Size	SC Johnson	35YY03	1
Push Style Soap Dispenser - 3250mL	SC Johnson	32KL76	1
Foam Hand Soap - 3250mL Refill Size	SC Johnson	28AR59	2
Foam Soap Dispenser - 1,000 mL Refill Size	SC Johnson	35YX95	1
Foam Soap Dispenser - 2,000 mL Refill Size	SC Johnson	35YY05	1
Sanitize - Use With or Without Water to Kill Germs and Provide Hand Hygiene			
Foam Hand Sanitizer - 1,000 mL Refill Size	Deb	54TT89	6
Touch-Free Hand Sanitizer Dispenser - 1,000 mL Refill Size	SC Johnson	35YX97	1
Restore - After-Work Creams to Maintain Skin In Healthy Condition			
Medicated Skin Cream - 1L	Deb	35YX92	6
Medicated Skin Cream Dispenser - 1,000 mL Refill Size	SC Johnson	35YX93	1
Skin Conditioner, Unscented - 1,000 mL	SC Johnson	35YX82	6
Lotion Dispenser - 1,000 mL Refill Size	SC Johnson	35YY02	1

54EF43 54GD34

enMotion Automated Soap and Sanitizer Dispensers

Stylish units provide virtually soundless automatic dispensing of foam soaps and sanitizers. High-capacity refill bottles are hygienically sealed to help reduce cross contamination. Refills are simple to load for easy maintenance and uninterrupted service.

See Page 1485 for Required Dispenser Sublease Information

Description	Mfr. Model	Item No.
Dispensers		
Counter-Mount Soap Dispenser, Chrome	52065	54EF43
Wall-Mount Soap/Sanitizer Dispenser, Black	52057	53JU89
Wall-Mount Soap/Sanitizer Dispenser, White	52058	53JU90
Wall-Mount Soap/Sanitizer Dispenser, Stainless Steel	52060	54GD34
Soap Refills - Pkg. of 2		
Foam Moisturizing Soap, Unscented - 1,200 mL	42714	53JU93
Foam Moisturizing Soap, Tranquil Aloe - 1,200 mL	42715	53JU94
Antimicrobial Soap, Aloe Vera - 1,200 mL	42819	53JU95
Hypoallergenic Soap, Unscented - 1,200 mL	42818	53JZ89
Sanitizer Refills - Pkg. of 2		
Unscented - 1000mL	42336	53JU92
Unscented - 1,000 mL	42334	53JU91

41D362 41D361 792AA3 41D775

Liquid Soap Bottles and Refills

Description	Fragrance	Size	Item No.	Pkg. Qty.
Liquid Soap Bottles				
Dial Professional Antimicrobial	Floral	2 oz	41D359	48
Dial Professional Antimicrobial	Floral	7.5 oz	4XKR6	12
Dial Professional Antimicrobial	Floral	16 oz	41D362	12
Softsoap Antibacterial Hand Soap	Fresh Floral	7.5 oz	41D780	6
Softsoap Soothing Aloe Vera	Clean Fresh	7.5 oz	41D777	6
Dial Professional Antimicrobial Sensitive Skin	Pleasant	16 oz	41D361	12
Liquid Refills				
Dial Broad Spectrum Antimicrobial	Floral	1 gal	4XKR5	4
Dial Basics Professional Hypoallergenic	Unscented	1 gal	792AA3	4
Dial Professional Antimicrobial Sensitive Skin	Floral	1 gal	41D364	4
Softsoap Antibacterial Hand Soap	Unscented	1 gal	31HJ19	4
Softsoap Soothing Aloe Vera	Unscented	1 gal	41D775	4

52PG16

Pacific Blue Ultra Soap and Sanitizer Dispensers

Manual dispensers feature a durable design, adjustable portion control, and when using high-quality Pacific Blue soaps and sanitizers, deliver the hygiene efficiency you expect with the durability you need for day-to-day performance.

Description	Mfr. Model	Item No.
Dispensers		
Black	53057	52PG16
White	53058	52PG17
Hand Soaps		
Dye-Free Unscented, 1,200 mL	43714	52PG14
Pacific Citrus, 1,200 mL	43715	52PG15
Antimicrobial Pacific Citrus, 1,200 mL	43819	52WP71
Antimicrobial Unscented, 1,200 mL	43818	53JZ91
Hand Sanitizer		
Unscented, 1,000 mL	43335	52WP70
Shampoo/Body Wash		
Aloe, 1,200 mL	43024	53JZ90

41D347 1VZR1

Foam Soap Bottles and Refills

Description	Fragrance	Size	Brand	Item No.	Pkg. Qty.
Foam Soap Bottles					
Dial Complete Antimicrobial	Citrus	7.5 oz	Dial	1XEJ3	8
Dial Complete Antibacterial	Power Berry	7.5 oz	Dial	41D348	8
Dial Complete Antibacterial	Pear	7.5 oz	Dial	41D347	8
Dial Complete Antibacterial	Spring Water	7.5 oz	Dial	48GE57	8
Dial Complete Professional	Original	15.2 oz	Dial	41D372	4
Dial Basics Professional	Honeysuckle	15.2 oz	Dial	41D373	4
Dial Basics Hypoallergenic	Honeysuckle	7.5 oz	Dial	41D352	8
GOJO Premium Foam Antibacterial Handwash	Fresh Fruit	7.5 oz	Gojo	1VZR1	6
GOJO Green Certified Foam Hand Cleaner	Unscented	7.5 oz	Gojo	2YPX3	6
Foam Refills					
Dial Complete Professional	Original	1 gal	Dial	41D375	4
Dial Professional Basics	Honeysuckle	1 gal	Dial	41D374	4

LTX 1200mL Dispensing Systems

Lockable systems with a removable pump and a large sight window for easy refill check. Reliability guarantee. Feature touchfree dispensing and virtually eliminate the need to change batteries.

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
White	1920-04	**15E335**	1
Black/Chrome	1928-04	**15E336**	1
Refills			
Advanced Hand Sanitizer Green Certified Foam	1904-02	**15E331**	2
Advanced Hand Sanitizer Foam	1905-02	**15E332**	2
Advanced Hand Sanitizer Green Certified Gel	1903-02	**15E330**	2

15E335

15E336

15E331

ADX-12 1250mL Dispensing Systems

Lockable systems manually dispense hand sanitizer. Feature a large sight window for easy refill check. Removable pump. Lifetime performance guarantee.

12Z354

12Z355

12Z352

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
White	8820-06	**12Z354**	1
Black/Chrome	8828-06	**12Z355**	1
Refills			
Advanced Hand Sanitizer Foam	8805-03	**12R423**	3
Advanced Hand Sanitizer Green Certified Gel	8803-03	**12Z351**	3
Advanced Hand Sanitizer Green Certified Foam	8804-03	**12Z352**	3

TFX 1200mL Touch-Free Dispensing Systems

Automatically dispenses correct amount of hand sanitizer needed. Feature large sight window for easy refill checks. ADA Compliant.

1PKP9

4HGW2

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispensers			
Dove Gray	2720-12	**1PKP9**	1
Nickel	2780	**4HGW2**	1
Refills			
Advanced Hand Sanitizer Green Certified Foam	5391-02	**20W437**	2
Advanced Hand Sanitizer Foam, 1200 mL	5392-02	**13G691**	2
Advanced Hand Sanitizer E3 Rated Foam	5393-02	**2YPX6**	2
Advanced Hand Sanitizer Gel	5456-04	**13G698**	4

FMX-12 1200mL Dispensing System

Manually dispenses hand sanitizer. Large sight window for easy refill check. One handed-push operation. ADA Compliant.

1VZP4

56JM47

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	5120-06	**1VZP4**	1
Refills			
Advanced Hand Sanitizer Green Certified Foam	5191-04	**56JM47**	4
Advanced Hand Sanitizer Foam	5192-04	**56JM48**	4
Advanced Hand Sanitizer E3 Rated Foam	5193-04	**56JM49**	4
Advanced Hand Sanitizer Green Certified Gel	5091-04	**56JM39**	4

NXT 1000mL Dispensing System

SPACE SAVER design takes up a lot less room than traditional 800mL dispensers. Manually dispenses hand sanitizer. ADA Compliant.

5VN15

13G704

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Dove Gray	2120-06	**5VN15**	1
Refills			
Advanced Hand Sanitizer Soothing Gel with Aloe and Vitamin E	2137-08	**13G704**	8
Advanced Hand Sanitizer Gel	2156-08	**19MR10**	8
Advanced Hand Sanitizer E3 Rated Gel	2163-08	**20W430**	8

800mL Bag-in-Box Dispensing System

Manually dispenses hand sanitizer. Features sanitary, sealed refill bags.

5W629

20W451

Description	Mfr. Model	Item No.	Pkg. Qty.
Dispenser			
Ceramic White	9621-12	**5W629**	1
Refills			
Advanced Hand Sanitizer with Moisturizers	9657-12	**20W451**	1

ES1 Everywhere System

Compact size hand sanitizer system that can be placed anywhere it is needed. Starter Kit 60TZ79 includes dispenser, 450 mL refill and mounting hardware. Securely attaches to walls and surfaces to help prevent theft. Sanitary Sealed PET refill helps prevent contamination and is easily recycled. Refill snaps in quickly for easy maintenance. 36NA65 and 36NA66 include 3M Command strips for secure mounting.

60TZ79

60TZ78

36NA65

36NA66

Description	Mfr. Model	Item No.	Pkg. Qty.
Hand Sanitizer Dispenser Starter Kit			
Manual Operation	4424-D6	**60TZ79**	6
Refill			
Advanced Hand Sanitizer Gel	4450-06	**60TZ78**	6
Rail Mount			
Black	5830-08-BLK	**36NA65**	1
Surface Mount			
White	5840-08-WHT	**36NA66**	1

12X257

20W445

20W433

20W448

46C648

52PG18

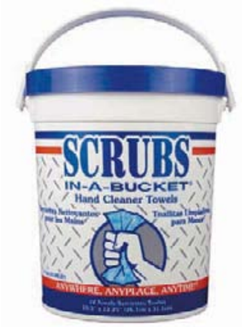
13G694

3AA15

Hand Sanitizer

Kills 99.99% of most common germs that may cause illness.

Description	Size	Mfr. Model	Item No.	Pkg. Qty.
Gel				
Pump Bottle				
Advanced Hand Sanitizer Green Certified Gel	8 oz	9691-12	**20W453**	1
Advanced Hand Sanitizer Gel	2 oz	9606-24	**20W444**	24
	8 oz	9652-12	**20W449**	1
	12 oz	3659-12	**12X257**	12
	2 L	9625-04	**20W445**	4
Advanced Hand Sanitizer Soothing Gel	12 oz	3639-12	**21R992**	12
Advanced Hand Sanitizer Skin Nourishing Gel	12 oz	3646-12	**38CC04**	1
Advanced Hand Sanitizer Green Certified Gel	12 oz	3691-12	**20W433**	1
Squeeze Bottle with Flip Top				
Advanced Hand Sanitizer Gel	1 oz	3901-2C-250	**46C646**	250
	2 oz	9605-24	**13G703**	24
	4 oz	9651-24	**20W448**	24
Squeeze Bottle with Flip Top and JELLY WRAP Carrier				
Advanced Hand Sanitizer Gel	1 oz	3900-36-WRP	**46C648**	36
Single-Use Packets				
Advanced Hand Sanitizer, Single Use	1.2 mL	9620-2M	**52PG18**	2000
Foam				
Advanced Hand Sanitizer Green Certified Foam	535 mL	5791-04	**20W441**	1
Advanced Hand Sanitizer Foam	535 mL	5792-04	**13G694**	4
SF607 Hand Sanitizer Foam	535 mL	5784-04	**22F132**	4
Aerosol Foam				
Foaming Hand Sanitizer	15 oz	9698-12	**3AA15**	1


24WJ88

4YCR4

782L05

782L07

Heavy-Duty Hand Cleaning Wipes

Description	No. of Wipes	Sheet Size	Package Type	Mfr. Model	Item No.	Pkg. Qty.
Citrus Fragrance						
SCRUBS Hand Cleaner Towel	100	8 in x 12 in	Packets	42201	**24WJ91**	1
	72	10 in x 12 in	Bucket	42272	**24WJ88**	1
	30	10 in x 12 in	Canister	42230	**24WJ90**	6
Kimberly-Clark Professional Wypall Waterless Cleaning Wipes	75	9 ½ in x 12 in	Bucket	91371	**4YCR4**	1
GOJO Fast Towels	60	9 in x 10 in	Packets	6285-06	**782L05**	6
	130	9 in x 10 in	Bucket	6298-04	**782L04**	4
	225	9 in x 10 in	Bucket	6299-02	**782L03**	2
GOJO Scrubbing Towels	72	10 ½ in x 12 in	Bucket	6396-06	**782L06**	1
	170	10 ½ in x 12 in	Bucket	6398-02	**782L07**	1
	80	10 ½ in x 12 ¼ in	Packets	6380-04	**782L08**	1

1PKR3

12H935

5FYP5

24CG23

3EUG2

5EWA5

5MP31

2YNP1

14L978

Hand Sanitizer Wipes and Dispenser

Wipes are saturated with an agent that kills bacteria and germs. These disposable cloths wipe hands clean and help prevent the spread of germs. They are commonly used in locations where access to soap and water is not available.

Description	Packaging Type	No. of Wipes	Sheet Size	Mfr. Model	Item No.
Wipes					
PURELL Hand Sanitizer Wipes	Box	100	5 in x 7 in	9022-10	**1PKR5**
	Box	1,000	5 in x 7 in	9021-1M	**1PKR4**
	Box	4,000	5 in x 7 in	9020-4M	**1PKR3**
	Bucket	270	6 in x 6¾ in	9113-06	**12H935**
PURELL Cottony Soft Hand Sanitizer Wipes	Box	40	5 in x 7 in	9025-12	**5FYP4**
	Box	120	5 in x 7 in	9027-12	**5FYP5**
	Packet	1,000	5 in x 7 in	9026-1M	**5FYP6**
PURELL Hand Sanitizer Wipes	Canister	100	5¾ in x 7 in	9111-12	**24CG23**
PURELL Hand Sanitizer Wipes, Alcohol Formula	Canister	80	6 in x 7 in	9030-12	**3EUG1**
	Canister	175	6 in x 7 in	9031-06	**3EUG2**
Tough Guy Hand Sanitizer Wipes	Canister	85	6 in x 8 in	5EWA5	**5EWA5**
SCRUBS Antibacterial, Antimicrobial Hand Sanitizer Wipes	Canister	85	6 in x 8 in	90985	**5MP31**
SCRUBS Antimicrobial Lemon Hand Sanitizer Wipes	Canister	120	6 in x 8 in	92991	**2FLL9**
Wet Wipe Dispenser and Refill					
PURELL Hand Sanitizer Wipes Wall Dispenser	—	—	—	9019	**2YNP1**
PURELL Hand Sanitizer Wipes Refill	Soft Pack	1,200	6 in x 8 in	9118-02	**14L978**

PRO TDX 5000mL and 2000mL Heavy-Duty Hand Cleaner Systems

Portion control system reduces total cost per wash. Rugged dispensers use sanitary-sealed bag-in-box refills (sold separately).

3U550

52RU28

5DZN7

5FZ07

Description	Application	Fragrance	5000ML DISPENSER Mfr. Model	Item No.	Pkg. Qty.	2000ML DISPENSER Mfr. Model	Item No.	Pkg. Qty.
Dispensers								
Gray	—	—	7500-01	**3U550**	1	7200-01	**3U515**	1
Refills								
SUPRO MAX, Nondrying Formula	Oil, Grease, Paint, and Adhesives Removal	Floral	7572-02	**52RU29**	2	7272-04	**52RU28**	4
SUPRO MAX Cherry with Gentle Scrubbers	Oil, Grease, Paint, and Adhesives Removal	Cherry	7582-02	**52RU25**	2	7282-04	**52RU24**	4
MULTI GREEN with Nonabrading Scrubbing Particles	Oil, Grease, Paint, Tar, and Asphalt Removal	Citrus	7565-02	**12V417**	2	7265-04	**12V415**	4
Cherry Gel Pumice Hand Cleaner	Heavy Dirt, Oil and Grease Removal	Cherry	7590-02	**5DZN7**	2	7290-04	**5DZN8**	4
RICH PINK Antibacterial Lotion Soap	—	Floral	7520-02	**3U551**	2	7220-04	**5FZ07**	4

3FPP3

3FPN9

5000mL Heavy-Duty Hand Cleaner Soap System

Rugged bag-in-box dispenser uses sanitary, sealed refill bags. Portion control reduces total cost per wash.

Description	Fragrance	Item No.	Pkg. Qty.
Dispenser			
Foam Soap Dispenser	—	**3FPP3**	1
Refills			
Citrus Hand Cleaner with Nonabrading Scrubbing Particles	Citrus	**12V418**	2
Cherry Gel Pumice Hand Cleaner	Cherry	**3FPN9**	2

43NR78

451C37

449W24

43NT24

Industrial Hand Cleaner Systems

Description	Mfr. Model	Item No.	Pkg. Qty.
1-Gal. Dispenser and Pump			
Aluminum and Nylon Dispenser, Gray	600101	**43NR78**	1
Top-Mount Pump, White	666901	**451C37**	1
1-Gal. Refills			
Cherry Bomb with Emollients, Pumice	095124	**43NT33**	4
Lemon with Lanolin, Pumice, Solvent-Free	R54824	**449W33**	4
Orange with Aloe Vera, Citrus Based, Pumice	302824	**449W24**	4
Soy-Based, Walnut Shells	318524	**43NT24**	4

Hand Cleaners

Creme cleans with or without water and contains no harsh solvents. 5FX83 and 5FX84 include skin conditioners. Pumice scrubbers in 6Z635 help loosen dirt.

Description	Size	Application	Mfr. Model	Item No.
ORIGINAL FORMULA Hand Cleaner	14 oz	Grease, Tar, Oil and Asphalt Removal	1109-12	**5FX83**
ORIGINAL FORMULA Hand Cleaner	4.5 lb	Grease, Tar, Oil and Asphalt Removal	1115-06	**5FX84**
Lemon Pumice Hand Cleaner	4.5 lb	Grease, Tar, Oil and Asphalt Removal	0915-06	**6Z635**

5FX84

6Z635

Heavy-Duty Hand Cleaners

Remove germs, grease, and grime from hands.

Description	Size	Application	Fragrance	Mfr. Model	Item No.	Pkg. Qty.
Cherry Gel Pumice Hand Cleaner	10 oz	Dirt, Oil and Grease Removal	Cherry	2354-08	**3EUF7**	1
Cherry Gel Pumice Hand Cleaner	0.5 gal	Dirt, Oil and Grease Removal	Cherry	2356-04	**3EUF8**	1
Cherry Gel Pumice Hand Cleaner	1 gal	Dirt, Oil and Grease Removal	Cherry	2358-02	**3EUF9**	1
SUPRO MAX Hand Cleaner	0.5 gal	Oil, Grease, Paint and Adhesive Removal	Fresh	0972-04	**52RU26**	4

3EUF7

3EUF8

52RU26

Scan. Order. Done.
Details on page A1.

Surface Disinfectants & Sanitizers Information

These products reduce germs on hard, nonporous surfaces to keep germs from spreading. Clean surfaces with cleaners that remove dirt and other impurities before using disinfectants or sanitizers. Disinfectants are antimicrobial chemicals that destroy or eliminate most pathogens and disease-causing microorganisms on cleaned surfaces, lowering the risk of spreading infection. Sanitizers are antimicrobial chemicals that reduce germs on a cleaned surface, but may not completely destroy or eliminate all bacteria or viruses. **National Sanitation Foundation (NSF) International** manages a voluntary registration program for nonfood compounds and proprietary substances that provides specific ratings to help Food Processing operations understand where certain products should and should not be used.

NSF RATINGS, CATEGORIES, AND INTENDED USE

3D: Food Processing - Substances for Washing Fruits and Vegetables

B1: Laundry (Food Contact) - Products for Fabrics that May Come into Contact with Food Products

B2: Laundry (Nonfood Contact) - Products for Fabrics that Do Not Come in Direct Contact with Food Products

C1: Nonprocessing Area - General Products

C2: Nonprocessing Area - Compounds for Use in Toilets/Dressing Rooms

D1: Antimicrobial - Antimicrobial Agents Always Requiring a Rinse

D2: Antimicrobial - Antimicrobial Agents Not Always Requiring a Rinse

G4: Water Treatment - Chlorine Products

K1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas

Q4: Shell Egg Products - Chlorine Sanitizers

21EX39

4JB53

24Y904

53DH40

22C495

5KRJ0

22D029

6VDE5

36P446

10K009

61DU34

61DU36

61DU35

11W407

Disinfectant Cleaners

- All are EPA registered

Clean and disinfect using one product, eliminating the need for separate cleaners.

Container Size	Ready to Use/ Concentrated	Cleaner Form	Primary Chemical	Fragrance	VOC Content	NSF Rating	Product Series	Brand	Item No.	Pkg. Qty.
Aerosol Spray Can										
14 oz	Ready to Use	Liquid	None	Unscented	70%	Not Rated	Citrace	Clorox Healthcare	**22D024**	12
20 oz	Ready to Use	Foam	None	Citrus	8%	Not Rated	Do-It ALL	ITW Dymon	**21EX39**	12
20 oz	Ready to Use	Foam	None	Fruity	8%	C1	Hydro Force	CRC	**4JB53**	1
20 oz	Ready to Use	Foam	None	Lemon	8%	Not Rated	Tough Guy	Tough Guy	**24Y904**	1
20 oz	Ready to Use	Liquid	Quat	Unscented	8%	Not Rated	—	Claire	**53DH40**	1
24 oz	Ready to Use	Foam	Quat	Fresh	0%	C2	—	Lysol	**22C495**	12
Trigger Spray Bottle										
1 qt	Ready to Use	Liquid	Quat	Lemon	3%	Not Rated	—	Tough Guy	**36XX41**	1
32 oz	Ready to Use	Liquid	Hydrogen Peroxide	Cherry Almond	0%	Not Rated	Oxivir	Diversey	**5KRJ0**	12
32 oz	Ready to Use	Liquid	None	Citrus	1%	C1	Spray Nine	Spray Nine	**36P445**	12
32 oz	Ready to Use	Liquid	None	Fresh	1%	Not Rated	Clorox	Clorox	**22D029**	9
32 oz	Ready to Use	Liquid	None	Lemon	1%	Not Rated	—	Fantastik	**32GR63**	8
32 oz	Ready to Use	Liquid	Quat	Unscented	1%	Not Rated	Clorox	Clorox	**22D012**	9
32 oz	Ready to Use	Liquid	Bleach	Unscented	1%	Not Rated	Clorox	Clorox Healthcare	**52LC52**	9
32 oz	Ready to Use	Liquid	None	Unscented	1%	Not Rated	Clorox	Clorox Healthcare	**6VDE6**	6
32 oz	Ready to Use	Liquid	None	Unscented	—	Not Rated	Span	Spic And Span	**4XKT3**	8
Bottle										
24 oz	Ready to Use	Liquid	Alcohol	Unscented	0%	Not Rated	CaviCide	Cavicide	**3VDJ1**	1
32 oz	Ready to Use	Liquid	None	Unscented	1%	Not Rated	Clorox	Clorox Healthcare	**6VDE5**	6
60 oz	Ready to Use	Liquid	None	Pine	1%	Not Rated	Clorox	Pine-Sol	**22D026**	6
144 oz	Ready to Use	Liquid	None	Pine	1%	Not Rated	Clorox	Pine-Sol	**22D027**	3
Jug										
1 gal	Ready to Use	Liquid	Hydrogen Peroxide	Cherry Almond	0%	Not Rated	Oxivir	Diversey	**48TJ10**	4
1 gal	Ready to Use	Liquid	None	Citrus	1%	C1	Spray Nine	Spray Nine	**36P446**	4
1 gal	Ready to Use	Liquid	Alcohol	Unscented	0%	Not Rated	CaviCide	Cavicide	**3VDJ2**	1
1 gal	Ready to Use	Liquid	None	Unscented	0%	Not Rated	Krud Kutter	Krud Kutter	**10K009**	1
1 gal	Ready to Use	Liquid	Quat	Unscented	—	Not Rated	Clorox	Clorox	**61DU34**	4
1 gal	Ready to Use	Liquid	None	Unscented	—	D2	Clorox	Clorox	**61DU36**	4
1 gal	Ready to Use	Liquid	Bleach	Unscented	—	Not Rated	Clorox	Clorox Healthcare	**61DU35**	4
1 gal	Concentrated	Liquid	Quat	Lemon	0%	Not Rated	—	Lysol	**22C504**	4
1 gal	Concentrated	Liquid	Quat	Mint	3%	Not Rated	Virex II 256	Diversey	**11W407**	1
1 gal	Concentrated	Liquid	Quat	Original	0%	Not Rated	—	Lysol	**22C492**	4
1 gal	Concentrated	Liquid	Quat	Unscented	0%	Not Rated	—	3M	**35YY73**	4
1 gal	Concentrated	Liquid	None	Unscented	0%	Not Rated	Oxivir	Diversey	**11Y608**	1
2.5 gal	Ready to Use	Liquid	Alcohol	Unscented	0%	Not Rated	CaviCide	Cavicide	**3VDJ3**	1
128 oz	Ready to Use	Liquid	Bleach	Fresh	1%	Not Rated	Clorox	Clorox	**22D030**	4
128 oz	Ready to Use	Liquid	None	Unscented	1%	Not Rated	Clorox	Clorox Healthcare	**6VDE7**	4
144 oz	Ready to Use	Liquid	Quat	Lavender and Orchid Essence	0%	Not Rated	—	Lysol	**54JG75**	4
Bucket										
5 gal	Ready to Use	Liquid	None	Citrus	1%	C1	Spray Nine	Spray Nine	**36P447**	1
5 gal	Ready to Use	Liquid	Quat	Mild Fresh	0%	D2	Vital Oxide	Vital Oxide	**56LN44**	1
5 gal	Ready to Use	Liquid	None	Unscented	0%	Not Rated	Krud Kutter	Krud Kutter	**10K010**	1
90 ct	Concentrated	Tablet	None	Lemon	0%	Not Rated	Easy Paks	Diversey	**20J160**	2
Drum										
55 gal	Ready to Use	Liquid	None	Citrus	1%	C1	Spray Nine	Spray Nine	**36P450**	1
55 gal	Ready to Use	Liquid	None	Unscented	0%	Not Rated	Krud Kutter	Krud Kutter	**10K011**	1
55 gal	Concentrated	Liquid	Quat	Unscented	1%	Not Rated	PRO 5	Simple Green	**9WUK4**	1

Find more information on Surface Disinfectants and Sanitizers on page 1502.

Bleach

Liquid bleach is commonly used to deodorize and disinfect hard, nonporous surfaces to eliminate germs, mold, odors, and a broad range of pathogens, including bacteria, fungi, and viruses. The surfaces should be cleaned with soaps or detergents before applying bleach. Diluted bleach can also be used to whiten and brighten fabrics during laundering. Germicidal bleach is more concentrated than standard bleach, so less product is needed to create a solution for disinfecting surfaces.

Description	Container Size	Ready to Use/ Concentrated	Fragrance	VOC Content	EPA Registered	NSF Rating	Product Series	Brand	Item No.	Pkg. Qty.
Trigger Spray Bottle										
Bleach	11 oz	Ready to Use	Unscented	0%	Yes	Not Rated	Activate	Activate	**16Z988**	1
Bottle										
Germicidal Bleach	24 oz	Concentrated	Original	1%	Yes	Not Rated	Clorox	Clorox	**56FK53**	12
Jug										
Germicidal Bleach	121 oz	Ready to Use	Unscented	1%	Yes	3D, B1, B2, D1, D2, G4, Q4	Clorox	Clorox	**41H893**	3
Bleach	1 gal	Ready to Use	Chlorine	—	Yes	—	Arocep	—	**56HN13**	6

41H893

56HN13

11Y657

43NR66

22C657

3WU88

449W08

401Z43

49Z655

56DY50

Disinfectants

- All are EPA registered

Apply liquid and foam disinfectants after cleaning hard, nonporous surfaces to reduce the risk of spreading infection.

Container Size	Ready to Use/ Concentrated	Cleaner Form	Primary Chemical	Fragrance	VOC Content	NSF Rating	Product Series	Brand	Item No.	Pkg. Qty.
Aerosol Spray Can										
14 oz	Ready to Use	Liquid	None	Unscented	70%	Not Rated	Clorox	Clorox	**19ZD72**	12
15 oz	Ready to Use	Liquid	Alcohol	Fresh	67%	Not Rated	End Bac II	Diversey	**11Y657**	1
15.5 oz	Ready to Use	Liquid	None	Floral	69%	Not Rated	Tough Guy	Tough Guy	**53CW04**	1
16 oz	Ready to Use	Liquid	None	Citrus	1%	Not Rated	Zepynamic A II	Zep	**43NR66**	12
16 oz	Ready to Use	Liquid	None	Clean and Fresh	1%	Not Rated	Misty	Misty	**22C659**	12
19 oz	Ready to Use	Foam	None	Clean and Fresh	1%	Not Rated	Misty	Misty	**22C657**	12
19 oz	Ready to Use	Liquid	Quat	Fresh	0%	D1	—	Lysol	**1XEH4**	12
19 oz	Ready to Use	Liquid	Quat	Linen	0%	D1	—	Lysol	**1XEH6**	12
19 oz	Ready to Use	Liquid	Quat	Original	0%	D1	—	Lysol	**3WU88**	12
19 oz	Ready to Use	Liquid	Quat	Original	0%	C1	—	Lysol	**22C494**	12
19 oz	Ready to Use	Liquid	Quat	Spring Waterfall	0%	D1	—	Lysol	**22C484**	12
20 oz	Ready to Use	Foam	None	Pleasant	4%	Not Rated	ZEP 30	Zep	**449W08**	12
Trigger Spray Bottle										
32 oz	Ready to Use	Liquid	Hydrogen Peroxide	Cherry Almond	1%	Not Rated	Clorox	Clorox	**401Z43**	9
32 oz	Ready to Use	Liquid	Alcohol	Citrus	32%	Not Rated	—	Purell	**49Z655**	6
32 oz	Ready to Use	Liquid	None	Fresh Citrus	0%	D2		Ecos Pro	**60PR99**	1
32 oz	Ready to Use	Liquid	Hydrogen Peroxide	Lemon Floral	1%	Not Rated	Clorox	Clorox	**56CY55**	9
32 oz	Ready to Use	Liquid	None	Unscented	—	D1	Fantastik	Fantastik	**56DY50**	8
Bottle										
1 qt	Ready to Use	Liquid	Quat	Lemon	1%	Not Rated	—	3M	**3HB90**	12
1 qt	Concentrated	Liquid	Quat	Lemon	0%	Not Rated	—	Tough Guy	**36XX42**	1
Jug										
1 gal	Concentrated	Liquid	Quat	Herbal	1%	Not Rated	Pro 3 Plus	Simple Green	**423M62**	1
1 gal	Concentrated	Liquid	Quat	Unscented	0%	Not Rated	Triton	Zep	**451F18**	4
128 oz	Ready to Use	Liquid	Alcohol	Citrus	32%	Not Rated	—	Purell	**49Z653**	4
Bucket										
5 gal	Concentrated	Liquid	Quat	Herbal	1%	Not Rated	Pro 3 Plus	Simple Green	**423M63**	1
5 gal	Concentrated	Liquid	None	Lemon	1%	Not Rated	Lemonex III	Zep	**43NR73**	1
Drum										
20 gal	Concentrated	Liquid	Quat	Unscented	0%	Not Rated	Triton	Zep	**451F17**	1
55 gal	Concentrated	Liquid	None	Lemon	1%	Not Rated	Lemonex III	Zep	**43NR74**	1

3HB90

36XX42

423M62

451F18

Find more information on Surface Disinfectants and Sanitizers on page 1502.

56KE16

6TWF9

60MM44

56JR17

9RYJ7

22D022

401Z42

5KRJ1

22C574

22D015

56LK23

4XKR7

Disinfecting Wipes

- All are EPA registered

Disinfecting wipes are ready to use and presaturated with a disinfectant that helps stop the spread of bacteria, fungi, and viruses. Clean surfaces first, then use wipes to reduce the risk of spreading infection. They offer a convenient alternative to using multiple items, such as rags, buckets, and spray bottles.

Primary Chemical	Sheet Size	Container Size	Fragrance	Wet Contact Time	Product Series	Brand	Item No.	Pkg. Qty.
Bag								
Bleach	12 in x 12 in	110 ct	Bleach	2 to 3 min	—	Clorox Healthcare	**4XKR8**	2
Hydrogen Peroxide	12 in x 11 in	160 ct	Fresh	1 min or Less	Oxivir 1	Diversey	**53JX18**	4
Hydrogen Peroxide	12 in x 11 in	160 ct	Fresh	1 to 2 min	Oxivir Tb	Diversey	**45DW77**	4
Hydrogen Peroxide	12 in x 11 in	185 ct	Cherry Almond	1 min or Less	—	Clorox	**401Z41**	2
Quat	6 in L x 8 in W	800 ct	Lemon	30 seconds	Everwipe	Everwipe	**56KE16**	4
Quat	7 in x 7 in	700 ct	Fresh	3 to 4 min	—	Clorox	**45JC92**	2
Quat	8 in x 6 in	700 ct	Unscented	3 to 4 min	GymWipes	2XL	**60JU01**	4
Quat	8 in x 6 in	900 ct	Unscented	3 to 4 min	Force	2XL	**60JT97**	4
Packet								
Alcohol, Quat	6 in x 6 ¾ in	50 ct	Alcohol	1 to 2 min	Super Sani-Cloth	PDI	**9RYJ8**	1
Alcohol, Quat	11 ¾ in x 11 ½ in	50 ct	Alcohol	1 to 2 min	Super Sani-Cloth	Sani Professional	**8UMM9**	50
Alcohol, Quat	12 in x 10 in	50 ct	Alcohol	2 to 3 min	CaviWipesXL	Caviwipes	**6TWF9**	1
Soft Pack								
Alcohol, Quat	9 in x 7 in	45 ct	Alcohol	2 to 3 min	CaviWipes	Caviwipes	**6TWG0**	1
Bleach	10 in x 9 in	60 ct	Fruity and Floral	2 to 3 min	—	Dispatch	**22D021**	12
Quat	8 ½ in x 6 ¾ in	80 ct	Lemon and Lime Blossom	2 min	—	Lysol	**60MM44**	6
Canister								
Alcohol	8 in x 7 in	110 ct	Citrus	1 to 2 min	—	Purell	**56JR17**	6
Alcohol, Quat	6 ¾ in x 6 in	160 ct	Alcohol	2 to 3 min	CaviWipes	Caviwipes	**3VCZ5**	1
Alcohol, Quat	6 in x 6 ¾ in	65 ct	Alcohol	1 to 2 min	Super Sani-Cloth	PDI	**9JAJ1**	1
Alcohol, Quat	6 in x 6 ¾ in	65 ct	Alcohol	2 to 3 min	Sani-Cloth Plus	PDI	**8DLW5**	1
Alcohol, Quat	6 in x 6 ¾ in	160 ct	Alcohol	1 to 2 min	Super Sani-Cloth	PDI	**9RYJ7**	1
Alcohol, Quat	6 in x 6 ¾ in	160 ct	Alcohol	2 to 3 min	Sani-Cloth Plus	PDI	**9MCC1**	1
Alcohol, Quat	12 in x 9 in	65 ct	Alcohol	2 to 3 min	CaviWipesXL	Caviwipes	**6TWF8**	1
Bleach	6 in x 5 in	150 ct	Bleach	2 to 3 min	—	Clorox Healthcare	**6VDE9**	6
Bleach	8 in x 6 ¾ in	150 ct	Fruity and Floral	2 to 3 min	—	Dispatch	**22D022**	8
Bleach	9 in x 6 ¾ in	70 ct	Unscented	1 min or Less	—	Clorox Healthcare	**1XEZ3**	6
Bleach	10 ½ in x 6 in	75 ct	Bleach	3 to 4 min	Sani-Cloth Bleach	Caviwipes	**16Z989**	1
Hydrogen Peroxide	6 ¾ in x 5 ¾ in	155 ct	Cherry Almond	1 min or Less	—	Clorox	**401Z42**	6
Hydrogen Peroxide	7 in x 6 in	160 ct	Fresh	1 to 2 min	Oxivir Tb	Diversey	**5KRJ1**	12
Hydrogen Peroxide	7 in x 6 in	160 ct	Fresh	1 min or Less	Oxivir 1	Diversey	**53JX16**	12
Hydrogen Peroxide	8 in x 7 in	60 ct	Fresh	1 to 2 min	Oxivir Tb	Diversey	**11Y625**	1
Quat	7 ½ in x 5 ⅜ in	200 ct	Solvent	3 to 4 min	Sani-Cloth	Sani Professional	**22C574**	6
Quat	7 ¼ in x 7 in	35 ct	Lemon and Lime Blossom	10 seconds to 4 min	—	Lysol	**22C487**	12
Quat	7 ¼ in x 7 in	80 ct	Lemon and Lime Blossom	10 seconds to 4 min	—	Lysol	**1XEH7**	6
Quat	7 in x 7 in	75 ct	Lemon	30 seconds	Everwipe	Everwipe	**56KE17**	6
Quat	7 in x 8 in	70 ct	Lemongrass Citrus	1 min	—	Seventh Generation	**22C559**	6
Quat	8 in x 7 in	35 ct	Lemon	3 to 4 min	—	Clorox	**1AU17**	12
Quat	8 in x 7 in	35 ct	Fresh	3 to 4 min	—	Clorox	**1AU21**	12
Quat	8 in x 7 in	35 ct	Citrus Fresh	3 to 4 min	—	Clorox	**49DM81**	5
Quat	8 in x 7 in	75 ct	Lemon	3 to 4 min	—	Clorox	**22D014**	6
Quat	8 in x 7 in	75 ct	Fresh	3 to 4 min	—	Clorox	**22D015**	6
Quat	12 in x 7 in	40 ct	Lemon	10 min	Clean'Ems Spirit II	Zep	**56LK23**	12
Bucket								
Bleach	12 in x 12 in	110 ct	Bleach	2 to 3 min	—	Clorox Healthcare	**4XKR7**	2
Hydrogen Peroxide	12 in x 11 in	160 ct	Cherry Almond	1 min	Oxivir Tb	Diversey	**32GR52**	4
Hydrogen Peroxide	12 in x 11 in	185 ct	Cherry Almond	1 min or Less	—	Clorox	**401Z45**	2

Find more information on Surface Disinfectants and Sanitizers on page 1502.

30GE92

53PM98

60YP99

36P197

60YR01

403T86

Food-Processing Industry Sanitizing Wipes

Ready-to-use sanitizing wipes contain antimicrobial chemicals to help stop the spread of bacteria, fungi, and viruses. Presaturated wipes offer a convenient and efficient alternative to using multiple items, such as rags, buckets, and spray bottles. These wipes are typically used to lower the risk of cross-contamination on surfaces in restaurants, food service, and food and beverage manufacturing.

Primary Chemical	Sheet Size	Container Size	Fragrance	Wet Contact Time	NSF Rating	Product Series	Brand	Item No.	Pkg. Qty.
Box									
Quat	16 in x 13 ½ in	50 ct	Unscented	1 min or Less	Not Rated	—	Atlantic Mills	**30GE92**	1
Bag									
Quat	8 in x 6 in	500 ct	Fresh	1 to 2 min	Not Rated	Food-Service	2XL	**53PM98**	2
Soft Pack									
Hydrogen Peroxide	7 ⅞ in x 4 ⅜ in	10 ct	Light, Fresh	6 min	Not Rated	Scott 24 Hour	Scott	**60YP99**	50
Quat	9 in x 8 in	72 ct	Unscented	1 min	D2	Table Turners	Sani Professional	**61CU35**	12
Canister									
Alcohol, Quat	10 in x 7 ½ in	90 ct	Unscented	10 seconds to 1 min	D2	Alpet D2	Best Sanitizers, Inc.	**36P196**	6
Alcohol, Quat	9 ½ in x 7 ¼ in	160 ct	Unscented		D2	Alpet D2	Best Sanitizers, Inc.	**36P197**	6
Hydrogen Peroxide	7 ⅞ in x 6 ¾ in	75 ct	Light, Fresh	6 min	Not Rated	Scott 24 Hour	Scott	**60YR01**	6
Quat	9 in x 7 ¾ in	95 ct	Unscented	1 to 2 min	Not Rated	Sani-Wipe	Sani Professional	**403T85**	6
Quat	5 in x 7 ¾ in	175 ct	Unscented		Not Rated	Sani-Wipe	Sani Professional	**403T86**	6
Quat	12 ½ in x 11 in	100 ct	Fresh		Not Rated	Food-Service	2XL	**53PM99**	6

36P186

49Z650

22D010

22C522

450Z64

32GR55

54ZP31

Food-Processing Industry Sanitizers

- All are EPA registered

Sanitizers are antimicrobial chemicals that significantly reduce the amount of germs (up to 99.999%, including fast-spreadng cold and flu viruses) on a surface, but may not completely destroy or eliminate all bacteria or viruses. Surfaces require precleaning with soap or detergents before sanitizing for optimum results. These sanitizers are commonly used in restaurants, food service, and food and beverage manufacturing.

Primary Chemical	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	VOC Content	NSF Rating	Product Series	Brand	Item No.	Pkg. Qty.
Trigger Spray Bottle										
Alcohol	4 oz	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**36P192**	48
Alcohol	1 qt	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**36P191**	4
Alcohol	1 qt	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**36P186**	12
Alcohol	32 oz	Ready to Use	Liquid	Alcohol	32%	D2	—	Purell	**49Z650**	6
None	32 oz	Ready to Use	Liquid	Unscented	—	D2	Clorox	Clorox	**22D010**	12
Jug										
Alcohol	128 oz	Ready to Use	Liquid	Alcohol	32%	D2	—	Purell	**49Z654**	4
Bleach	1 gal	Concentrated	Liquid	Chlorine	0%	Q4	Dibac	Diversey	**32GR45**	4
None	1 gal	Ready to Use	Liquid	Iodine	0%	Not Rated	Dusan	Diversey	**32GR49**	4
Quat	1 gal	Concentrated	Liquid	Unscented	0%	D2	—	Lysol	**22C522**	4
Quat	1 gal	Concentrated	Liquid	Lemongrass	0%	Not Rated	Apriza	Zep	**450Z64**	4
Quat	1 gal	Concentrated	Liquid	Unscented	1%	Not Rated	Provisions No Rinse Sanitizer	Zep	**451D56**	4
Hydrogen Peroxide, Quat	2 L	Concentrated	Liquid	Pleasant	0%	Not Rated	Apriza 2	Zep	**54ZP52**	4
Packet										
None	0.125 oz	Concentrated	Powder	Chlorine	0%	D2	Sani-Sure	Diversey	**32GR55**	100
Bucket										
Alcohol	5 gal	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**19RC79**	1
Bleach	5 gal	Concentrated	Liquid	Chlorine	0%	Not Rated	Divosan	Diversey	**32GR23**	1
None	40 lb	Concentrated	Powder	Chlorine	0%	Not Rated	CHLOR 2	Zep	**54ZP31**	1
Quat	5 gal	Concentrated	Liquid	Lemongrass	0%	Not Rated	Apriza	Zep	**450Z65**	1
Bucket with Spigot										
Alcohol	5 gal	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**36P185**	1
Tote										
None	330 gal	Ready to Use	Liquid	Unscented	—	Not Rated	—	Diversey	**32GR20**	1
Drum										
Alcohol	50 gal	Ready to Use	Liquid	Alcohol	153%	D2	Alpet D2	Best Sanitizers, Inc.	**36P184**	1
Alcohol	50 gal	Ready to Use	Liquid	Citrus	0%	D2	—	Purell	**54ZV32**	1
Quat	55 gal	Concentrated	Liquid	Mild	2%	Not Rated	FS AMINE Z	Zep	**54ZP37**	1

36P185

32GR20

Find more Degreasers on pages 2447 and 2448 in the Lubrication section.

Degreaser Information

BASE FORMULA DEFINITIONS

Water-Based
These degreasers use water as their primary solvent, plus detergents, emulsifiers, cleaning agents, surfactants, and other compounds, to dissolve soil or make contaminants more dissolvent in water.

Solvent-Based
Chemical-based degreasers use chemicals to remove petroleum, grease, dirt, and fatty oils.

Natural Solvent-Based
Natural degreasers use organic sources for their base including citrus, soybean oil, coconut oil, and ethyl lactate (renewable carbohydrates). Scents are lighter and fresher than solvent-based cleaners.

44F776

22C619

54ZP09

36P452

49NW14

22C609

General Purpose Water-Based Degreasers

General purpose degreasers use water as the primary solvent to break down and lift off deposits of grease, oils, and dirt. They are biodegradable and commonly used to clean parts, machinery, and electrical components. Cleaner form is liquid for all degreasers, except 44F776 is a foam-dispensing gun cleaner that includes a spray adapter.

Container Size	Ready to Use/ Concentrated	Properties	VOC Content	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Aerosol Spray Can								
20 oz	Ready to Use	Biodegradable, Butyl Free, Plastic Safe	10%	Characteristic	Pur Fill	Todol	**44F776**	1
Trigger Spray Bottle								
24 oz	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C608**	1
24 oz	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Lemon	Simple Green	Simple Green	**22C619**	1
32 oz	Concentrated	Nonflammable, Plastic Safe	1%	Characteristic	Citrus Cleaner CA	Zep	**54ZP09**	12
32 oz	Ready to Use	Biodegradable, Nonflammable, Plastic Safe	1%	Citrus	Grez-Off	Spray Nine	**36P452**	12
1 qt	Ready to Use	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Unscented	Tough Guy	Tough Guy	**49NW14**	1
Bottle								
1 qt	Ready to Use	Biodegradable, Nonflammable, Plastic Safe	0%	Floral	Tough Guy	Tough Guy	**36XX40**	1
Jug								
1 gal	Ready to Use	Biodegradable, Nonflammable, Plastic Safe	1%	Citrus	Grez-Off	Spray Nine	**36P453**	4
1 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	3%	Sassafras	Tough Guy	Tough Guy	**49NW13**	1
1 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	5%	Citrus	Tough Guy	Tough Guy	**49NW12**	1
1 gal	Concentrated	Butyl Free, Nonflammable, Plastic Safe	10%	Solvent-Like	Zepride-E	Zep	**54ZN91**	4
1 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C609**	1
1 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Lemon	Simple Green	Simple Green	**22C620**	1
1 gal	Concentrated	—	—	Unscented	—	Starpower	**4YE57**	4
2.5 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C610**	1
Bucket								
5 gal	Ready to Use	Biodegradable, Nonflammable, Plastic Safe	1%	Citrus	Grez-Off	Spray Nine	**36P454**	1
5 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C611**	1
5 gal	Concentrated	Butyl Free, Nonflammable, Plastic Safe	20%	Mild	Morado	Zep	**43NT25**	1
5 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	5%	Citrus	Tough Guy	Tough Guy	**49NW15**	1
5 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	3%	Sassafras	Tough Guy	Tough Guy	**49NW16**	1
Drum								
55 gal	Ready to Use	Biodegradable, Nonflammable, Plastic Safe	1%	Citrus	Grez-Off	Spray Nine	**36P455**	1
55 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	5%	Citrus	Tough Guy	Tough Guy	**49NW17**	1
55 gal	Concentrated	Biodegradable, Nonflammable, Plastic Safe	3%	Sassafras	Tough Guy	Tough Guy	**49NW18**	1
55 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C612**	1
55 gal	Concentrated	—	—	Unscented	—	Starpower	**4YE56**	1
Palletized Tank								
275 gal	Concentrated	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Sassafras	Simple Green	Simple Green	**22C613**	1

450Z30

1CH09

2ZWL3

451D11

6PEC6

451D91

Strong-Acting Solvent-Based Degreasers

Strong-acting industrial degreasers are more effective than general-purpose degreasers at cutting through the toughest petroleum greases and fatty oils. Solvent-based degreasers use natural (citrus, soy, or pine oil) or chemical-based solvents to break down and dissolve grease, oils, ink, grime, and adhesives. Degreasers clean and remove contaminants from tools, parts, and machinery.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Properties	VOC Content	Product Series	Brand	Item No.	Pkg. Qty.
Solvent Based (Chemical-Based)									
Aerosol Spray Can	20 oz	Ready to Use	Liquid	—	98%	Aerosolve II	Zep	**450Z30**	12
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Nonflammable, Plastic Safe	1%	—	Formula 409	**1CH09**	12
Bottle	32 oz	Ready to Use	Liquid	Biodegradable	4%	Krud Kutter	Krud Kutter	**36P497**	1
Jug	1 gal	Concentrated	Liquid	Nonflammable, Plastic Safe	2%	Hurricane Force	Diversey	**2ZWL3**	1
Jug	128 oz	Ready to Use	Liquid	Nonflammable, Plastic Safe	1%	—	Formula 409	**5JC09**	4
Jug	128 oz	Ready to Use	Liquid	Nonflammable, Plastic Safe	1%	—	Clorox	**38P101**	4
Non Aerosol Can	1 gal	Ready to Use	Liquid	Plastic Safe	100%	I.D. Red	Zep	**451C47**	4
Drum	55 gal	Concentrated	Liquid	Biodegradable, Nonflammable, Plastic Safe	2%	Hurricane Force	Diversey	**2ZWL5**	1
Drum	55 gal	Ready to Use	Liquid	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	3%	Strata	Diversey	**5NTZ9**	1
Drum	55 gal	Ready to Use	Liquid	Tough Guy	0%	Tough Guy	Tough Guy	**18E925**	1
Drum	55 gal	Ready to Use	Liquid	Nonflammable, Plastic Safe	0%	Lemon Clear Degreaser	Zep	**43NR71**	1
Citrus-Based Solvent									
Aerosol Spray Can	15 oz	Ready to Use	Gel	—	90%	Orange Gel	Zep	**451D11**	12
Aerosol Spray Can	20 oz	Ready to Use	Liquid	Butyl Free, Plastic Safe	10%	Natural Force	ITW Dymon	**6UAY0**	1
Aerosol Spray Can	20 oz	Ready to Use	Liquid	Butyl Free, Plastic Safe	10%	Tough Guy	Tough Guy	**6PEC6**	1
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Biodegradable, Nonflammable, Plastic Safe	1%	Earth Soap	Spray Nine	**36P465**	6
Jug	1 gal	Ready to Use	Liquid	Biodegradable, Nonflammable, Plastic Safe	1%	Earth Soap	Spray Nine	**36P466**	4
Jug	1 gal	Concentrated	Liquid	—	90%	Big Orange	Zep	**450Z69**	4
Drum	55 gal	Ready to Use	Liquid	Biodegradable, Nonflammable, Plastic Safe	1%	Earth Soap	Spray Nine	**36P467**	1
Drum	55 gal	Concentrated	Liquid	—	90%	Big Orange	Zep	**450Z70**	1
Drum	40 lb	Concentrated	Powder	Nonflammable, Plastic Safe	1%	Zeco 40	Zep	**451F39**	1
Soy-Based Solvent									
Aerosol Spray Can	14 oz	Ready to Use	Liquid	Nonflammable, Plastic Safe	17%	Soy Response	Zep	**451D91**	12
Bottle	32 oz	Ready to Use	Liquid	Nonflammable, Plastic Safe	3%	Soy Response	Zep	**54ZN98**	12

Find more Degreasers on pages 2447 and 2448 in the Lubrication section.

Degreasers for Food Processing Information

National Sanitation Foundation (NSF) International manages a voluntary registration program for nonfood compounds and proprietary substances that provides specific ratings to help Food Processing operations understand where certain products should and should not be used.

NSF RATINGS, CATEGORIES, AND INTENDED USE

A1: Cleaning Products - General Cleaners

A2: Cleaning Products - Soak Tank, Steam/ Mechanical Cleaners

A4: Cleaning Products - Floor and Wall Cleaners

A8: Cleaning Products - Degreasers/Carbon Removers

B1: Laundry (Food Contact) - Products for Fabrics that May Come into Contact with Food Products

C1: Nonprocessing Area - General Products

K1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas

K2: Solvent Cleaners - Cleaning/Degreasing Solvents for Electronic Instruments

449W12

6PEC6

33X332

4YPJ8

40LR01

46E781

54ZP03

2CXU9

22C614

10K004

Food-Processing Industry Degreasers

Degreasers are NSF Certified. They break down and remove grease, oils, and dirt without harmful contamination or hazardous disposal. These solutions clean cooking surfaces, machinery, drain lines, and grease pits in restaurants, food service, and food and beverage manufacturing sites. Cleaner form is liquid for all degreasers, except 2CXU9 is powder packets.

Container Type	Container Size	Ready to Use/ Concentrated	NSF Rating	Properties	VOC Content	Product Series	Brand	Item No.	Pkg. Qty.
Citrus-Based Solvent									
Aerosol Spray Can	15 oz	Ready to Use	A1	—	95%	Big Orange	Zep	**449W12**	12
Aerosol Spray Can	15 oz	Concentrated	A1	—	46%	Big Orange-E	Zep	**449V19**	12
Aerosol Spray Can	20 oz	Ready to Use	C1	Butyl Free, Plastic Safe	10%	Tough Guy	Tough Guy	**6PEC6**	1
Bottle	1 qt	Concentrated	A1	—	90%	Big Orange	Zep	**449V16**	12
Non Aerosol Can	1 gal	Concentrated	A1	—	39%	Big Orange-E	Zep	**449W15**	4
Coconut Oil Based Solvent									
Jug	1 gal	Ready to Use	A1, A8	Butyl Free, Nonflammable, Plastic Safe	0%	Suma Break-Up	Diversey	**33X332**	4
Ethyl Lactate and Soy Based									
Aerosol Spray Can	20 oz	Ready to Use	K1	—	8%	Super-Soy	CRC	**4YPJ8**	1
Solvent Based (Chemical-Based)									
Aerosol Spray Can	13 oz	Ready to Use	A1	Plastic Safe	100%	ZEP ID Red	Zep	**449V63**	12
Aerosol Spray Can	15 oz	Ready to Use	K1	Plastic Safe	10%	Specialist	WD-40 Specialist	**40LR01**	1
Aerosol Spray Can	13 oz	Concentrated	A1	—	9%	ZEP 75	Zep	**449W10**	12
Trigger Spray Bottle	32 oz	Concentrated	C1	Butyl Free, Nonflammable, Plastic Safe	1%	Speedball	Diversey	**46E781**	12
Bottle	128 oz	Ready to Use	K2	Nonflammable	100%	Top Solv	Zep	**54ZP03**	4
Jug	1 gal	Concentrated	A4	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	3%	Strata	Diversey	**5NTZ8**	1
Bag	2.5 gal	Ready to Use	A1	Butyl Free, Nonflammable, Plastic Safe	0%	Suma	Diversey	**32GP48**	1
Bucket	5 gal	Ready to Use	A1	Plastic Safe	100%	I.D. Red	Zep	**449V61**	1
Bucket	36 ct	Concentrated	A1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Easy Paks	Diversey	**2CXU9**	2
Drum	55 gal	Ready to Use	K2	Nonflammable	100%	Top Solv	Zep	**451F13**	1
Water Based									
Aerosol Spray Can	20 oz	Ready to Use	A1, A4, A8, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	5%	Crystal Simple Green	Simple Green	**22NX98**	1
Trigger Spray Bottle	24 oz	Concentrated	A1, A2, A4, A8, B1, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Crystal Simple Green	Simple Green	**22C614**	1
Trigger Spray Bottle	32 oz	Concentrated	A1	Biodegradable, Nonflammable, Plastic Safe	0%	Krud Kutter	Krud Kutter	**10K004**	1
Jug	1 gal	Concentrated	A1, A2, A4, A8, B1, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Crystal Simple Green	Simple Green	**22C615**	1
Jug	1 gal	Concentrated	A1	Biodegradable, Nonflammable, Plastic Safe	0%	Krud Kutter	Krud Kutter	**10K005**	1
Bucket	5 gal	Concentrated	A1	Biodegradable, Nonflammable, Plastic Safe	0%	Krud Kutter	Krud Kutter	**10K006**	1
Bucket	5 gal	Concentrated	A1, A2, A4, A8, B1, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Crystal Simple Green	Simple Green	**22C616**	1
Drum	55 gal	Concentrated	A1, A2, A4, A8, B1, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Crystal Simple Green	Simple Green	**22C617**	1
Drum	55 gal	Concentrated	A1	Biodegradable, Nonflammable, Plastic Safe	0%	Krud Kutter	Krud Kutter	**10K007**	1
Palletized Tank	275 gal	Concentrated	A1, A2, A4, A8, B1, C1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	Crystal Simple Green	Simple Green	**22C618**	1

Aviation Industry Water-Based Degreasers

Liquid concentrated aviation degreasers remove tough grease, oils, cutting fluids, and built-up grime and residue on aircraft engines, machinery, and ground support equipment. They meet or exceed aviation safety standards including MIL-SPEC.

6WB64

38X863

Container Type	Container Size	Properties	VOC Content	Product Series	Brand	Item No.
Jug	1 gal	Biodegradable, Nonflammable, Plastic Safe	2%	Extreme Simple Green	Simple Green	**6WB64**
Bucket	5 gal		2%	Extreme Simple Green	Simple Green	**6CMU6**
Bucket	5 gal	Nonflammable, Plastic Safe	50%	ZEP Aviation NAV II	Zep Aviation	**38X863**
Bucket	5 gal		0%	NAV-II	Zep	**453D31**
Bucket	5 gal		0%	ZEP Aviation Airplane Cleaner II	Zep Aviation	**38X856**
Drum	55 gal		0%	NAV-II	Zep	**453D32**
Drum	55 gal	Biodegradable, Nonflammable, Plastic Safe	2%	Extreme Simple Green	Simple Green	**6CMU7**
Palletized Tank	275 gal		2%	Extreme Simple Green	Simple Green	**6CMU8**

Electrical Contact Cleaners Information

Plastic Compatibility

Safe on All Plastics indicates safe for use on plastic housings without damage.

Safe on Most Plastics designates safe on most plastic housings without cracking or damage. Testing cleaner for compatibility before use is recommended.

Dielectric Strength Range

Dielectric strength is the maximum voltage an insulator can withstand before breaking down and allowing electric current through if contacts are energized before cleaner evaporates. The higher the dielectric strength level, the greater the insulation against sparks, current breakthrough, or electrical shorts. When power can't be disconnected, look for cleaners with the highest dielectric strengths.

National Sanitation Foundation (NSF) International manages a voluntary registration program for nonfood compounds and proprietary substances that provides specific ratings to help food processing operations understand where certain products should and should not be used.

NSF RATINGS, CATEGORIES, AND INTENDED USE

K1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas

K2: Solvent Cleaners - Cleaning/Degreasing Solvents for Electronic Instruments

P1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas (Includes lubricants, cleaners, and coatings)

2EAX1

40WY43

1D262

1D263

6KHF3

44R239

Electrical Contact Cleaners

- Ready to use liquid

Contact cleaners remove dust, dirt, oil, flux residue, and other contaminants from sensitive electronics and electrical components without excessive scrubbing or wiping. These fast-drying cleaners improve conductivity by removing contaminants from the energized surfaces of electronic components, devices, and equipment.

Plastic-safe contact cleaners eliminate any incompatibility with plastic components or rubber gaskets that house or surround sensitive electronics or electrical components. These precision electrical contact cleaners remove dust, dirt, oil, and other contaminants without damaging plastic, rubber, or conductive surfaces. Safe for most plastics. Test for compatibility before use.

Container Type	Container Size	Flammability	Dielectric Strength	VOC Content	NSF Rating	Product Series	Brand	Item No.
Contact Cleaners								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	12 oz	Nonflammable	47.5 kV	64.7 %	K2	REVO 66	LPS	**2HYX5**
Aerosol Spray Can	13 oz	Nonflammable	30.8 kV	30.9 %	K2	2000 VC	CRC	**2EAX1**
Aerosol Spray Can	16 oz	Nonflammable	36 kV	97.24 %	K2	EL2001	Sprayon	**6KDT5**
Aerosol Spray Can	18 oz	Nonflammable	39 kV	42.4 %	K2	Lectra Force	CRC	**45FG57**
Aerosol Spray Can	19 oz	Nonflammable	37.5 kV	0 %	K2	No Series	CRC	**4YPJ5**
Aerosol Spray Can	19 oz	Nonflammable	39 kV	81.7 %	Not Rated	Cable Clean	CRC	**4YPJ4**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	12 oz	Nonflammable	11.5 kV	59.5 %	Not Rated	Electra-X 2.0	LPS	**40WY44**
Aerosol Spray Can	12 oz	Nonflammable	11.5 kV	59.5 %	K2	NoFlash 2.0	LPS	**40WY43**
Aerosol Spray Can	16 oz	Nonflammable	15 kV	42 %	Not Rated	Electro-Wash	Chemtronics	**24JY91**
Aerosol Spray Can	18 oz	Nonflammable	15 kV	94 %	K2	EL2846	Sprayon	**1MET9**
Aerosol Spray Can	18 oz	Nonflammable	26.8 kV	96 %	K2	Cable Clean	CRC	**1HBK2**
Plastic Safe Contact Cleaners—Safe on All Plastics								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	11 oz	Flammable	39.5 kV	75 %	P1	QD	CRC	**1D262**
Bucket	5 gal	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**5YK64**
Drum	55 gal	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**3APN4**
Trigger Spray Can	14 oz	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**6RA76**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	10 oz	Flammable	12.5 kV	2 %	K2	EL2206	Sprayon	**39H843**
Aerosol Spray Can	14 oz	Nonflammable	22 kV	45 %	Not Rated	Electro	LPS	**20Y602**
Aerosol Spray Can	14 oz	Nonflammable	27.6 kV	0 %	K2	No Series	CRC	**1D266**
Trigger Spray Can	10 oz	Nonflammable	27.6 kV	0 %	K2	CO	CRC	**2YE16**
Plastic Safe Contact Cleaners—Safe on Most Plastics								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	11 oz	Flammable	45.7 kV	97.2 %	K2	HF	CRC	**1D263**
Aerosol Spray Can	12 oz	Nonflammable	30.2 kV	23.5 %	K2	XT-2000	CRC	**1XFF1**
Aerosol Spray Can	13 oz	Flammable	30.8 kV	57.5 %	K2	2000	CRC	**12W317**
Aerosol Spray Can	16 oz	Flammable	30.8 kV	57.5 %	K2	NT	CRC	**3FB96**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	10 oz	Flammable	350V	71.85 %	K2	No Series	CRC	**1D261**
Aerosol Spray Can	11 oz	Nonflammable	Not Rated	75 %	K2	EL2302	Sprayon	**6KHF3**
Aerosol Spray Can	11 oz	Flammable	13.1 kV	96.8 %	K2	Electro 140°	LPS	**2C642**
Aerosol Spray Can	11 oz	Flammable	25 kV	45 %	K2	Specialist	WD-40 Specialist	**44R239**
Aerosol Spray Can	11 oz	Flammable	Not Rated	74 %	K2	CFC Free NU	LPS	**2HCP2**
Aerosol Spray Can	11 oz	Flammable	Not Rated	96.2 %	K2	Micro-X	LPS	**4JB63**
Aerosol Spray Can	11 oz	Flammable	Not Rated	74 %	K2	Micro-X NU	LPS	**4XMF1**
Aerosol Spray Can	12 oz	Nonflammable	9 kV	70.1 %	K2	NoFlash	LPS	**2F017**
Aerosol Spray Can	12 oz	Nonflammable	19.4 kV	65 %	K2	EL2020	Sprayon	**6KDW5**
Aerosol Spray Can	12 oz	Flammable	8.3 kV	74.9 %	K1, K2	No Series	CRC	**1HBK5**
Aerosol Spray Can	16 oz	Flammable	Not Rated	96.2 %	K2	CFC Free Electro	LPS	**2C687**
Aerosol Spray Can	20 oz	Flammable	10 kV	75 %	Not Rated	P1	Sprayway	**45C005**
Aerosol Spray Can	20 oz	Flammable	Not Rated	100 %	Not Rated	Electro-Wash	Chemtronics	**1UYD7**
Trigger Spray Can	14 oz	Nonflammable	Not Rated	75 %	K2	EL2302	Sprayon	**4GUP4**

3VG76

5JC04

3XKC3

Aerosol Dusters

- Aerosol can
- Ready to use liquid

These compressed air cans shoot a powerful stream of air to remove surface contaminants including dust, dirt, and debris from sensitive equipment including computer keyboards, test instruments, circuit boards, and machinery. Air is nonabrasive and evaporates quickly without leaving any residue.

Container Size	Recommended For	Brand	Item No.
8 oz	Electronics	CRC	**3VG76**
10 oz	A/V Equipment, Contacts, Lab Instrumentation, Medical Devices, Office Equipment, PLCs, Printed Circuit Boards, TV and VCR Internals	Chemtronics	**5JC04**
10 oz	Electronics, Office Equipment	Techspray	**3XKC3**
15 oz	Electronics, Office Equipment	Techspray	**3XKC4**

4YPK4

22HU70

Freeze Sprays

- Safe on all plastics
- Nonflammable
- 0% VOC content
- Trigger spray can
- Ready to use liquid

Sprays are aerosol coolants that emit icy cold air to instantly dissipate heat and cool circuits. Freezing components helps locate thermal intermittent failures and shorts in computers, electronics, data processing equipment, and testing equipment. Nonabrasive freeze sprays evaporate instantly without any residue.

Container Size	Brand	Item No.
10 oz	CRC	**4YPK4**
10 oz	Techspray	**22HU69**
15 oz	Techspray	**22HU70**

All-Purpose Cleaners for Food Processing Information

National Sanitation Foundation (NSF) International manages a voluntary registration program for nonfood compounds and proprietary substances that provides specific ratings to help Food Processing operations understand where certain products should and should not be used.

NSF RATINGS, CATEGORIES, AND INTENDED USE

A1: Cleaning Products - General Cleaners
A3: Cleaning Products - Acid Cleaners
A4: Cleaning Products - Floor and Wall Cleaners
C1: Nonprocessing Area - General Products

General-Purpose Cleaners

These cleaners remove dirt, grime, and stains from a broad range of surfaces in residential, commercial, and industrial spaces. The acidic nature of nontoxic vinegar in 45TW63 is so powerful it also disinfects, deodorizes, and degreases surfaces.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	Brand	Item No.	Pkg. Qty.
Vinegar							
Jug	1 gal	Ready to Use	Liquid	Fresh	Tough Guy	**45TW63**	4
All Purpose Cleaner							
Aerosol Spray Can	18 oz	Ready to Use	Foam	Citrus	Zep	**449V08**	12
Aerosol Spray Can	19 oz	Ready to Use	Foam	Ammonia	Sprayon	**6KHF8**	1
Aerosol Spray Can	19 oz	Ready to Use	Liquid	Orange	Misty	**22C644**	12
Trigger Spray Bottle	1 qt	Ready to Use	Liquid	Citrus	Zep	**43NT41**	12
Trigger Spray Bottle	16 oz	Ready to Use	Liquid	Citrus	Pledge	**20J180**	6
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Fresh	Comet	**4XKT4**	8
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Lemon Breeze	Lysol	**22C503**	12
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Orange	Ecos Pro	**4TKC4**	1
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Slight Chlorine	Lysol	**22C505**	12
Bottle	28 oz	Ready to Use	Liquid	Citrus	Mr. Clean	**499L37**	9
Bottle	144 oz	Ready to Use	Liquid	Lavender	Pine-Sol	**22D028**	3
Bottle	144 oz	Ready to Use	Liquid	Lemon	Pine-Sol	**22D032**	3
Bottle	144 oz	Ready to Use	Liquid	Orange	Pine-Sol	**22D031**	3
Jug	1 gal	Ready to Use	Liquid	Citrus Floral	Tough Guy	**49NW19**	1
Jug	1 gal	Ready to Use	Liquid	Lavender	Tough Guy	**36XX37**	1
Jug	1 gal	Ready to Use	Liquid	Unscented	Mr. Clean	**33NT80**	4
Jug	1 gal	Concentrated	Liquid	Lavender	Fabuloso	**55EY07**	4
Jug	1 gal	Concentrated	Liquid	Pine	Lysol	**22C502**	4
Jug	1 gal	Concentrated	Liquid	Unscented	Simple Green	**2GVN6**	2
Box	27 oz	Ready to Use	Powder	Unscented	Spic And Span	**33NT85**	12
Cleaner and Degreaser							
Jug	1 gal	Concentrated	Liquid	Lavender	Fabuloso	**2NDR8**	4
Jug	1 gal	Concentrated	Liquid	Ocean Cool	Fabuloso	**2NDR9**	4
Jug	5 gal	Ready to Use	Liquid	Unscented	3M	**3U124**	1
Cleaner with Bleach							
Bottle	30 oz	Ready to Use	Liquid	Unscented	Clorox	**38P098**	8
Kitchen Cleaner							
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Fresh	Fantastik	**46E808**	8
Non-Conductive Surface Cleaner							
Aerosol Spray Can	18 oz	Ready to Use	Liquid	Alcohol	Zep	**43NR99**	12

45TW63

4XKT4

22C503

499L37

22D032

2GVN6

2NDR8

46E808

Cleaning Wet Wipes

The cleaning agent in these ready-to-use wet wipes removes stains, dirt, grease, and other contaminants. Wipes offer a convenient alternative to using multiple items, such as rags, buckets, and spray bottles.

Description	Container Type	Container Size	Sheet Size	Primary Chemical	Fragrance	Brand	Item No.	Pkg. Qty.
Cable Gel Solvent Wipes								
Solvent and Degreaser Wipes	Packet	1 ct	11 in x 8 in	None	Orange	LPS	**20Y606**	1
Cleaning Wipes								
Cleaning Wipes	Bag	1,200 ct	12 ½ in x 11 in	Quat	Unscented	2XL	**60JU02**	2
Multi-Purpose Cleaning Wipes	Soft Pack	25 ct	10 in x 7 in	None	Fresh	Pledge	**20J181**	12
All Purpose Cleaning Wipes	Canister	75 ct	12 in x 10 in	None	Unscented	Simple Green	**22C621**	1
Gym Wipes								
Gym Wipes	Bag	700 ct	12 ½ in x 11 in	Quat	Unscented	2XL	**60JT99**	4
Lead Safe Cleaning Wipes								
Lead Safe Wipes	Canister	90 ct	12 in x 8 in	None	Citrus, Floral	—	**4YRK3**	1
Shop Wipes								
Shop Wipes	Canister	70 ct	12 ½ in x 11 in	Quat	Unscented	2XL	**60JU04**	6

20Y606

20J181

60JT99

Food-Processing Industry Cleaners

Food-industry cleaners target dirt and grime in food-processing and non-processing areas. These cleaners are NSF Certified, ensuring a safe, sanitary environment for producing food products.

Container Type	Container Size	Cleaner Form	NSF Rating*	pH Value	Ready to Use/ Concentrated	Brand	Item No.	Pkg. Qty.
All Purpose Cleaner								
Aerosol Spray Can	19 oz	Foam	C1	Alkaline	Ready to Use	Sprayon	**6KHF8**	1
Bucket	90 ct	Powder Packet	C1	Alkaline	Concentrated	Diversey	**1CF07**	2
CIP Cleaner								
Jug	1 gal	Liquid	Not Rated	Alkaline	Concentrated	Best Sanitizers, Inc.	**48FY24**	4
Cleaner and Degreaser								
Jug	1 gal	Foam	A1, A4	Neutral	Concentrated	Best Sanitizers, Inc.	**48FY14**	4
Bucket	5 gal	Foam	A1, A4	Neutral	Concentrated	Best Sanitizers, Inc.	**48FY15**	1
High-Foaming Chlorinated Cleaner								
Jug	1 gal	Foam	Not Rated	Alkaline	Concentrated	Best Sanitizers, Inc.	**48FY22**	4
Bucket	5 gal	Foam	Not Rated	Alkaline	Concentrated	Best Sanitizers, Inc.	**48FY23**	1
High-Foaming Cleaner								
Bucket	5 gal	Foam	A3	Acidic	Concentrated	Best Sanitizers, Inc.	**48FY19**	1

** Not Rated cleaners include a Letter of Guarantee to support they are guaranteed safe for food environments.*

6KHF8

1CF07

48FY22

Cleanroom Wet Wipes

Low-lint, unscented, presaturated wet wipes clean delicate equipment, wipe up spills, and control contaminants in laboratories and cleanrooms.

Container Type	Container Size	Sheet Size	Std.	Formula	Brand	Item No.	Pkg. Qty.
Soft Pack	100 ct	9 in x 6 in	ISO Class 5	30% Deionized Water, 70% Isopropyl Alcohol	Berkshire	**46D098**	1
Soft Pack	30 ct	9 in x 9 in	ISO Class 4 - 5	30% Deionized Water, 70% Isopropyl Alcohol	Berkshire	**46D095**	1
Soft Pack	40 ct	11 in x 9 in	ISO Class 4	30% Deionized Water, 70% Isopropyl Alcohol	Kimtech	**2VHW6**	10
Soft Pack	50 ct	11 in x 9 in	ISO Class 5 - 8	30% Deionized Water, 70% Isopropyl Alcohol	Berkshire	**46D102**	1
Soft Pack	75 ct	9 in x 9 in	ISO Class 5 - 8	70% Ipa/30% Di Water	Berkshire	**3LDK4**	1
Soft Pack	75 ct	9 in x 9 in	ISO Class 5 - 8	9% Isopropyl Alcohol, 91% Deionized Water	Berkshire	**46D096**	1
Canister	100 ct	9 in x 6 in	ISO Class 5	9% Isopropyl Alcohol, 91% Deionized Water	Berkshire	**46D099**	1
Canister	100 ct	9 in x 6 in	ISO Class 5	30% Deionized Water, 70% Isopropyl Alcohol	Berkshire	**46D097**	1

2VHW6

46D097

3EEF2

1AU29

20K968

55ED93

2LEF5

49RM14

10A369

20K970

38P097

Toilet & Urinal Cleaners

Cleaners keep bathrooms clean and odor free. They break down stains, urine, rust, limescale, and mineral deposits to keep the water in toilet bowls and urinals clear. They also disinfect and deodorize surfaces to eliminate odors and prevent bacteria growth. Cleaners with thickeners cling to surfaces as they break up and penetrate soils.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Automatic Toilet Bowl Cleaner								
Bottle	9 oz	Ready to Use	Liquid	Unscented	—	Tough Guy	**3EEF2**	12
Disposable Toilet Wand Starter Kit								
Box	1 lb	Ready to Use	Sponge Head	Unscented	Clorox	Clorox	**38P097**	6
Toilet Bowl Cleaner								
Bottle	24 oz	Ready to Use	Liquid	Fresh Scent	Clorox	Clorox	**1AU29**	12
Bottle	24 oz	Ready to Use	Liquid	Unscented	Clorox	Clorox	**20K968**	12
Bottle	24 oz	Ready to Use	Liquid	Wintergreen	—	Lysol	**55ED93**	9
Bottle	32 oz	Ready to Use	Liquid	Floral	Tough Guy	Tough Guy	**2LEF5**	1
Bottle	32 oz	Ready to Use	Liquid	Mint	Tough Guy	Tough Guy	**2LEF7**	1
Bottle	32 oz	Ready to Use	Liquid	Unscented	Tough Guy	Tough Guy	**2LEF8**	1
Bottle	32 oz	Ready to Use	Liquid	Wintergreen	—	Lysol	**49RM14**	12
Bottle	32 oz	Ready to Use	Liquid	Floral	Crew	Diversey	**10A369**	1
Jug	32 oz	Ready to Use	Liquid	Mint	Crew	Diversey	**11Y670**	1
Box	2 ct	Ready to Use	Tablet	Unscented	Clorox	Clorox	**20K970**	6
Bucket	90 ct	Ready to Use	Powder Packet	Lavender	Crew	Diversey	**3U568**	2
Toilet Bowl and Urinal Cleaner								
Bottle	1 qt	Ready to Use	Liquid	Acidic	Bolex	Misty	**20H873**	12
Bottle	1 qt	Ready to Use	Liquid	Mint	Secure	Misty	**20H874**	12
Urinal Cleaner								
Bottle	1 qt	Ready to Use	Liquid	Bubblegum	—	Tough Guy	**36MG05**	1
Bucket	6 gal	Ready to Use	Liquid	Unscented	—	Tough Guy	**18E928**	1

20K983

2ZWJ7

20K969

2LEF6

436P88

2GVN7

1CH06

Multisurface Bathroom Cleaners

Cleaners clean a wide range of bathroom fixtures and surfaces, removing soap scum, soil, and grime, plus deodorize and disinfect surfaces. They also clean bathroom sinks, tubs, showers, and tile, eliminating the need for multiple bathroom cleaners in healthcare facilities, schools, locker rooms, and hotels.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	Brand	Item No.	Pkg. Qty.
Aerosol Spray Can	19 oz	Ready to Use	Liquid	Fresh	Kaboom	**20K983**	8
Trigger Spray Bottle	22 oz	Ready to Use	Liquid	Cool Spring Breeze	Lysol	**38V849**	12
Trigger Spray Bottle	24 oz	Ready to Use	Liquid	Unscented	Green Works	**2ZWJ7**	12
Trigger Spray Bottle	30 oz	Ready to Use	Liquid	Unscented	Clorox	**20K969**	9
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Fresh	Tilex	**20K971**	9
Bottle	1 qt	Ready to Use	Cream	Fresh	Tough Guy	**2LEF6**	1
Bottle	32 oz	Ready to Use	Liquid	Unscented	Comet	**436P88**	10
Bottle	36 oz	Ready to Use	Liquid	Bleach	Soft Scrub	**4BU74**	6
Bottle	36 oz	Ready to Use	Liquid	Lemon	Soft Scrub	**1XEJ1**	6
Jug	1 gal	Concentrated	Liquid	Herbal	Ecos Pro	**39N014**	1
Jug	1 gal	Concentrated	Liquid	Unscented	Simple Green	**2GVN7**	2
Jug	1 gal	Ready to Use	Liquid	Unscented	Vani-Sol	**20K991**	4
Non-Aerosol Can	21 oz	Ready to Use	Powder	Pine	Comet	**3U557**	24
Canister	21 oz	Ready to Use	Powder	Unscented	Ajax	**1CH06**	24

Urine Removers

Ready-to-use liquid urine removers eliminate urine odors and break down urine stains on most hard and soft surfaces including grout, walls, carpets, upholstery, mattresses, and flooring. Unscented removers also clean up bodily fluids including feces, blood, and vomit.

48RF66

Container Type	Container Size	Item No.	Pkg. Qty.
Trigger Spray Bottle	32 oz	**19ZD70**	9
Bottle	32 oz	**48RF66**	6
Jug	1 gal	**19ZD71**	4

Toilet Tank Cleaner

Reduce the buildup of damaging deposits and stains inside toilet tanks with this ready-to-use powder cleaner. The strong citric acid formula removes hard water deposits, calcium, and rust, prolonging the life of toilet components. Safe for all toilet tanks in healthcare, educational, and industrial/manufacturing facilities.

Container Type	Container Size	Fragrance	Item No.
Bottle	1 lb	Lemon	**49XY17**

3UP44

61LV30

56DY52

6XFH2

Calcium, Lime & Rust Removers

Removers neutralize rust stains and dissolve mineral deposits on bathroom sinks and toilet tanks, inside boilers and radiators, and on concrete and stucco surfaces without scrubbing. Safe to use on bathroom fixtures. Rust removers take off rust and iron stains.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Brand	Item No.
Calcium and Lime Remover					
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Simple Green	**3UP43**
Jug	1 gal	Ready to Use	Liquid	Simple Green	**3UP44**
Calcium, Lime and Rust Remover					
Bucket	5 gal	Concentrated	Liquid	CLR Pro	**61LV21**
Jug	1 gal	Concentrated	Liquid	CLR Pro	**61LV30**
Concrete Etcher					
Jug	1 gal	Ready to Use	Liquid	Rust-Oleum	**6A935**
Lime Remover					
Jug	1 gal	Ready to Use	Liquid	CLR Pro	**56DY52**
Rust Inhibitor					
Bucket	5 gal	Concentrated	Liquid	Zep	**450Z49**
Rust Remover					
Jug	1 gal	Ready to Use	Liquid	Goof Off	**6XFH2**
Bucket	6.25 gal	Ready to Use	Powder	Iron Out	**4YJW5**
Bucket	5 gal	Ready to Use	Liquid	Krud Kutter	**36P490**

49XY06

2CYE8

20J159

60MM36

Drain Cleaners, Maintainers and Openers

Ready-to-use, bio-enzymatic products break down organic matter in drain lines. They produce bacteria to actively digest and liquefy organic matter in drains to help prevent and eliminate clogs and odors. Regular use of bio-enzymatic formulas can help prevent future clogs by eliminating buildup. Recommended for use in commercial and institutional food service operations, where buildup from fats, oils, and grease is common.

Container Type	Container Size	Cleaner Form	Septic System Safe	Garbage Disposal Safe	Fragrance	Brand	Item No.	Pkg. Qty.
Drain Cleaners								
Bottle	32 oz	Liquid	No	Not Rated	Floral	Waterless	**2VRW6**	1
Jug	1 gal	Liquid	Yes	Yes	Lemon	Instant Power Professional	**49XY06**	1
Drain Maintainer								
Bottle	32 oz	Liquid	Yes	Yes	Floral	Tough Guy	**2CYE8**	1
Drain Openers								
Bottle	1 lb	Beads	Yes	No	Unscented	Instant Power Professional	**49XY04**	1
Bottle	20 oz	Crystalline Solid	Yes	No	Unscented	Hercules	**20CM18**	1
Bottle	32 oz	Liquid	Yes	Yes	Unscented	Nu-Calgon	**410X90**	1
Jug	32 oz	Gel	Yes	Yes	Unscented	Drano	**20J159**	12
Jug	80 oz	Gel	Yes	Yes	Unscented	Drano	**20J158**	6
Jug	32 oz	Liquid	Yes	Yes	Unscented	Drano	**20J157**	12
Jug	1 L	Liquid	Yes	No	Unscented	Instant Power Professional	**49XX96**	12
Jug	0.5 gal	Liquid	Yes	No	Unscented	Santeen	**32UU98**	4
Jug	1 gal	Liquid	Yes	Yes	Unscented	Nu-Calgon	**410X91**	1
Garbage Disposal Cleaner								
Bag	4 ct	Powder	Yes	Yes	Unscented	Glisten Disposer Care	**60MM36**	6

54ZL78

451F09

Tile & Grout Cleaners

Cleaners remove mold and mildew from discolored tile and grout to restore bright, clean grout lines. These liquid cleaners help prevent soap-scum buildup, lime deposits, and hard-water stains. Commonly used in bathrooms, locker rooms, spas, and other moisture-prone areas.

Description	Container Type	Container Size	Ready to Use/ Concentrated	Fragrance	Brand	Item No.	Pkg. Qty.
Grout Cleaner							
Grout Cleaner	Bottle	32 oz	Ready to Use	Lemongrass	Zep	**54ZL78**	12
Tile Cleaner							
Ceramic Tile Cleaner	Jug	2.5 gal	Concentrated	Pleasant	Zep	**450Z89**	1
Tile and Grout Cleaner							
Tile and Grout Cleaner	Trigger Spray Bottle	32 oz	Ready to Use	Unscented	Rejuvenate	**788N95**	1
Heavy Duty Tile and Grout Cleaner	Bottle	1 qt	Ready to Use	Pleasant	Zep	**451F09**	12
Tile and Grout Rejuvenator	Trigger Spray Bottle	32 oz	Ready to Use	Chlorine	Diversey	**61XK32**	12

52CF87

22C497

3U560

20J199

5RVT4

36XX43

61CR98

Glass Cleaners

These cleaners remove dirt and smudges from windows, mirrors, appliances, and automobile windows without leaving streaks or residue. Formulas are available with ammonia, ammonia-free, and for acrylic products.

Container Type	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	Brand	Item No.	Pkg. Qty.
Glass Cleaners							
Trigger Spray Bottle	23 oz	Ready to Use	Liquid	Unscented	Windex	**52CF87**	8
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Unscented	Windex	**60RE95**	8
Trigger Spray Bottle	33 oz	Ready to Use	Liquid	Unscented	Gunk	**54XU73**	1
Bottle	32 oz	Ready to Use	Liquid	Unscented	Diversey	**56LL39**	12
Bottle	67 oz	Ready to Use	Liquid	Unscented	Windex	**32GR69**	6
Jug	1 gal	Ready to Use	Liquid	Unscented	Spic And Span	**22C497**	3
Jug	1 gal	Ready to Use	Liquid	Unscented	Windex	**3U560**	1
Bag	5 gal	Ready to Use	Liquid	Unscented	Windex	**20J199**	1
Soft Pack	35 ct.	Ready to Use	Wipes	Unscented	Windex	**56GW49**	12
Ammonia-Free Glass Cleaners							
Aerosol Can	18 oz	Ready to Use	Liquid	Unscented	Techspray	**32LE93**	1
Aerosol Can	20 oz	Ready to Use	Foam	Floral	Tough Guy	**41C264**	12
Aerosol Can	20 oz	Ready to Use	Foam	Fresh	Sprayway	**5RVT4**	1
Trigger Spray Bottle	1 qt	Ready to Use	Liquid	Lavender	Tough Guy	**36XX43**	1
Trigger Spray Bottle	1 qt	Ready to Use	Liquid	Unscented	Tough Guy	**49NW23**	1
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Lavender	Ecos Pro	**4TKD9**	1
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Fresh	Windex	**60RE97**	8
Jug	1 gal	Ready to Use	Liquid	Unscented	Tough Guy	**49NW20**	1
Jug	1 gal	Concentrated	Liquid	Unscented	Spic And Span	**22C498**	2
Jug	1 gal	Concentrated	Liquid	Unscented	Tough Guy	**49NW21**	1
Bottle	2.5 L	Concentrated	Liquid	Unscented	Diversey	**489M84**	2
Acrylic Barrier Cleaner							
Trigger Spray Bottle	32 oz	Ready to Use	Liquid	Unscented	Diversey	**61CR98**	12

14L980

10G732

11U430

Pure
K3004

Herbal Choice
K2983

Continuous Air Freshener Dispensers & Refills

Dispensers release odor-neutralizing scents for a predetermined, uninterrupted amount of time. They use compatible air freshener refills. White color.

Dispenser Mounting	Refill Type	Coverage	Fragrance	Includes	Brand	Item No.	Pkg. Qty.
Air Freshener Dispensers							
TCell							
Wall	Cartridge	6,000 cu ft	Dispenser Only	Key	Rubbermaid	**14L980**	1
Tough Guy							
Surface, Wall	Block	1,000 cu ft	Dispenser Only	Mounting Tape	Tough Guy	**10G732**	1
Air Freshener Dispensers with Refill							
Tough Guy							
Wall	Scented Cover	100 cu ft	Mango	(2) Batteries, (2) Fan Units, (2) Refill Covers	Tough Guy	**11U430**	2
Wall	Scented Cover	100 cu ft	Spiced Apple	(2) Batteries, (2) Fan Units, (2) Refill Covers	Tough Guy	**11U431**	2

Refill Type	Container Size	Refill Life	Coverage	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
Rubbermaid Air Freshener Refills							
TCell							
Cartridge	48 mL	60 day	6,000 cu ft	14L980; 14L990	Citrus	**14L984**	6
Cartridge	48 mL	60 day	6,000 cu ft	14L980; 14L990	Cucumber Melon, Polar Mist, Wakening Spring, Blue Splash, Tropical, Mango Blossom, Pure, Ocean Breeze	**K3004**	6

Refill Type	Container Size	Coverage	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
Tough Guy Air Freshener Refills						
Tough Guy						
Block	3 oz	1000 cu ft	10G732	Herbal Choice, Mango, Spiced Apple	**K2983**	6

Black
K3003

White
K3006

2ZXC1

40CA23

Cucumber Melon
K3002

Linen
K2992

Programmable Air Freshener Dispensers & Refills

Release odor-neutralizing scents at user-selected time intervals. Wall-mounted dispensers operate by releasing a quick burst of fragrance at adjustable intervals so the scent isn't overwhelming. Dispensers use compatible air freshener refills. Aerosol spray refill type.

Refill Life	Scent Release Settings	Coverage	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Air Freshener Dispensers						
Microburst 3000						
3000 sprays	15 min, 30 min, 7.5 min	6,000 cu ft	Black, White, Silver	Rubbermaid	**K3003**	1
Microburst 9000						
3000 sprays	14 min, 7 min	6,000 cu ft	Black, White, Chrome	Rubbermaid	**K3006**	1
Tough Guy						
30 day, 90 day	15 min, 30 min, 7.5 min	850 cu ft	White	Tough Guy	**2ZXC1**	1
30 day, 45 day, 60 day, 90 day	15 min, 30 min, 7.5 min	950 cu ft	White	Tough Guy	**40CA24**	1
30 day, 45 day, 60 day, 90 day	15 min, 30 min, 7.5 min	950 cu ft	White	Tough Guy	**40CA23**	1

Container Size	Refill Life	Coverage	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
Rubbermaid Air Freshener Refills						
Microburst 3000						
2.6 oz	168 day	6,000 cu ft	48GE38; 48GE39; 48GE40	Linen, Mountain Peaks, Ocean Breeze, Cucumber Melon, Orchard, Country Delight, Mango	**K3002**	12
2.6 oz	168 day	6,000 cu ft	48GE38; 48GE39; 48GE40	Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**48GE52**	10
Microburst 9000						
5.3 oz	180 day	6,000 cu ft	52JR40; 52JR41; 52JR42	Linen Fresh, Orchard Fields, Mountain Peaks, Ocean Breeze, Mango, Mandarin Orange	**K2990**	4

Container Size	Refill Life	Coverage	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
Tough Guy Air Freshener Refills						
Tough Guy						
2.6 oz	30 day	950 cu ft	40CA24	Linen, Citrus, Bouquet, Orchard, Cinnamon, Mango	**K2992**	1
2.6 oz	30 day	950 cu ft	40CA24	Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**2ZXG8**	6
Tough Guy 9000						
7 oz	90 day	950 cu ft	2ZXC1; 40CA23	Linen, Citrus, Bouquet, Orchard, Cinnamon, Mango	**K2993**	1
7 oz	90 day	950 cu ft	2ZXC1; 40CA23	Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**2ZXC6**	6
Tough Guy 3000						
7 oz	90 day	950 cu ft	2ZXC1; 40CA23	Linen, Citrus, Bouquet, Orchard, Cinnamon, Mango	**K3001**	1
7 oz	90 day	950 cu ft	2ZXC1; 40CA23	Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**2ZXF9**	6

43NR81

20H167

401Z60

Blue Sky
43NR64

Clean & Fresh
20H205

Clean & Fresh
K3000

Metered Air Freshener Dispensers & Refills

Wall mount air freshener dispensers release odor-neutralizing scents into the air at preset intervals. Dispensers operate by releasing a quick burst of fragrance at planned intervals so the scent isn't overwhelming. Use compatible air freshener refills.

Refill Type	Refill Life	Scent Release Settings	Coverage	Color	Brand	Item No.	Pkg. Qty.
Air Freshener Dispensers							
3000 Ultra							
Aerosol Spray	3000 sprays	15 min, 30 min, 7.5 min	6,000 cu ft	White	Zep	**43NR81**	1
TimeMist							
Aerosol Spray	30 day	15 min, 30 min, 7.5 min	3,000 cu ft	White	Timemist	**20H170**	1
Aerosol Spray	30 day, 90 day	15 min	6,000 cu ft	White	Timemist	**20H167**	1
Aerosol Spray	3000 sprays	15 min, 30 min, 7.5 min	6,000 cu ft	White	Timemist	**20H168**	1
Aerosol Spray	3000 sprays	15 min, 30 min, 7.5 min	6,000 cu ft	Black	Timemist	**401Z63**	6
Aerosol Spray	30 day	15 min, 30 min, 7.5 min	6,000 cu ft	Black	Timemist	**401Z60**	6
Cartridge	30 day	15 min	6,000 cu ft	White	Timemist	**401Z73**	6

Refill Type	Container Size	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
Zep Air Freshener Refills					
Meter Mist					
Aerosol Spray	6.5 oz	43NR81	Blue Sky	**43NR64**	12
Aerosol Spray	6.5 oz	43NR81	Linen	**43NR65**	12

Refill Type	Container Size	Compatible Grainger Item No.	▶CHOOSE: Fragrance	Item No.	Pkg. Qty.
TimeMist Air Freshener Refills					
TimeMist					
Aerosol Spray	3 oz	20H170; 401Z60	Clean & Fresh	**20H205**	12
Aerosol Spray	5.3 oz	20H167, 20H168	Apple, Baby Powder, Cherry, Fresh Water, Spring Flowers	**K2995**	12
Aerosol Spray	6.6 oz	20H167, 20H168, 401Z63	Citrus	**20H189**	12
Aerosol Spray	6.6 oz	20H167, 20H168, 401Z63	Apple, Clean & Fresh, Country Garden, Mango	**K2997**	12
Aerosol Spray	6.6 oz	20H167, 20H168, 401Z63	Pomegranate Grapefruit, Bamboo & Green Tea, Wildwood Fig	**K2998**	12
Aerosol Spray	6.6 oz	20H167, 20H168, 401Z63	Variety Pack (1 each of Citrus, Crystal Breeze, Blue Splash, Polar Mist and Wakening Spring)	**20H199**	12
Aerosol Spray	7.5 oz	20H167, 20H168, 401Z63	Cherry	**401Z65**	4
Virtual Janitor					
Cartridge	9.88 oz	401Z73	Citrus, Clean & Fresh, Mango	**K3000**	12

Air Fresheners

Ready-to-use air fresheners counteract odors in the air with fragrances, leaving no residue and a cleaner, fresher scent to linger in restrooms, locker rooms, and kitchens.

20L021

Lavender and Chamomile K2979

Sugar and Spice K2980

New Blossom K2978

Clean and Fresh K2981

3U563

After the Rain K2984

Container Type	Container Size	Air Freshener Form	▶CHOOSE: Fragrance	Brand	Item No.	Pkg. Qty.
Air Fresheners						
Aerosol Spray Can	7 oz	Liquid	Fresh Scent	Arm And Hammer	**20L021**	12
Aerosol Spray Can	8 oz	Liquid	Lavender and Chamomile, Fresh Waters	Air Wick	**K2979**	12
Aerosol Spray Can	10 oz	Liquid	Sugar and Spice, Vanilla	ITW Dymon	**K2980**	12
Aerosol Spray Can	10 oz	Liquid	New Blossom, Morning Orchard, Bahama Breeze, Vanilla, Cucumber Melon, Linen, Orange Delight	Tough Guy	**K2978**	1
Aerosol Spray Can	10 oz	Liquid	Clean and Fresh, Mango	Timemist	**K2981**	12
Aerosol Spray Can	13.8 oz	Liquid	Super Fresh	Glade	**3U563**	12
Trigger Spray Bottle	32 oz	Liquid	Cherry, Mulberry, Bubblegum	Tough Guy	**K2985**	1
Bag	50	Tablet	Cherry, Mulberry, Bubblegum	Tough Guy	**K2982**	1
Cone	7 oz	Solid	After the Rain, Raspberry	Renuzit	**K2984**	12
Drum	55 gal	Liquid	Cherry, Mulberry, Bubblegum	Tough Guy	**K2986**	1

Description	Compatible Grainger Item No.	Color	Material	Brand	Item No.	Pkg. Qty.
Air Freshener Holder						
Adjustable Cone Holder	K2984	Pearl	Plastic	Renuzit	**20L035**	6

Odor Eliminators

Remove or eliminate odors in the air, in carpets, on fabrics, and hard surfaces in bathrooms, kitchens, locker rooms, confined spaces, and anywhere else odors linger.

39F976

2CYE6

20J967

10A371

1YRP8

39F969

2TEG7

20L017

2XJ93

36P406

Container Type	Container Size	Air Freshener Form	Ready to Use/ Concentrated	Fragrance	Brand	Item No.	Pkg. Qty.
Odor Eliminators							
Aerosol Spray Can	5 oz	Liquid	Ready to Use	Unscented	Big D	**4KN49**	12
Trigger Spray Bottle	1 qt	Liquid	Ready to Use	Pleasant	Zep	**43NR55**	12
Trigger Spray Bottle	32 oz	Liquid	Ready to Use	Fresh	ITW Dymon	**21A878**	12
Trigger Spray Bottle	32 oz	Liquid	Ready to Use	Green Apple	Diversey	**56LL37**	12
Trigger Spray Bottle	32 oz	Liquid	Ready to Use	Unscented	Freshwave IAQ	**39F976**	1
Bottle	1 qt	Liquid	Ready to Use	Fresh	Tough Guy	**2CYE6**	1
Bottle	5 gal	Liquid	Ready to Use	Fresh	ITW Dymon	**20J968**	1
Jug	1 gal	Liquid	Ready to Use	Fresh	Tough Guy	**2CYF2**	1
Jug	1 gal	Liquid	Ready to Use	Fresh	ITW Dymon	**20J967**	4
Jug	1 gal	Liquid	Ready to Use	Unscented	Big D	**4KN48**	1
Jug	1 gal	Liquid	Ready to Use	Unscented	Freshwave IAQ	**39F977**	1
Jug	1 gal	Liquid	Concentrated	Cherry Almond	Diversey	**10A371**	1
Jug	1 gal	Liquid	Concentrated	Clean Breeze	Air Wick	**20L007**	4
Jug	1 gal	Liquid	Concentrated	Floral	Tough Guy	**2CYE7**	1
Jug	1 gal	Liquid	Concentrated	Fresh	Diversey	**10A370**	1
Jug	1 gal	Liquid	Concentrated	Fresh Breeze	Odoban Earth Choice	**2TEG3**	4
Jug	1 gal	Liquid	Concentrated	Pleasant	Zep	**450Z35**	4
Jug	64 oz	Liquid	Concentrated	Unscented	Freshwave IAQ	**39F979**	1
Box	5 gal	Liquid	Ready to Use	Unscented	Freshwave IAQ	**39F978**	1
Box	5 gal	Liquid	Concentrated	Unscented	Freshwave IAQ	**39F980**	1
Box	24 oz	Solid	Ready to Use	Cherry	Tough Guy	**2ZXE9**	6
Bucket	2 gal	Gel	Ready to Use	Unscented	Freshwave IAQ	**39F972**	1
Bucket	5 gal	Gel	Ready to Use	Unscented	Freshwave IAQ	**39F973**	1
Jar	8 oz	Gel	Ready to Use	Fresh	Tough Guy	**1YRP8**	12
Jar	8 oz	Gel	Ready to Use	Unscented	Freshwave IAQ	**39F969**	1
Jar	1 lb	Gel	Ready to Use	Fresh	Tough Guy	**1YRP9**	6
Jar	16 oz	Gel	Ready to Use	Unscented	Freshwave IAQ	**39F970**	1
Jar	24 oz	Gel	Ready to Use	Unscented	Freshwave IAQ	**39F971**	1
Jar	4 lb	Gel	Ready to Use	Fresh	Tough Guy	**1YRR1**	4
Drum	55 gal	Liquid	Ready to Use	Fresh	ITW Dymon	**20J969**	1
Bucket	32 oz	Powder Packet	Concentrated	Unscented	Diversey	**2CXV1**	2
Jug	22 oz	Liquid	Ready to Use	Unscented	Tough Guy	**1YRR4**	4
Jug	1 gal	Liquid	Ready to Use	Unscented	Tough Guy	**1YRR5**	4
Odor Eliminator and Disinfectants							
Trigger Spray Bottle	1 qt	Liquid	Ready to Use	Eucalyptus	Odoban Professional	**2TEG7**	12
Jug	1 gal	Liquid	Concentrated	Eucalyptus	Odoban Professional	**2TEG6**	4
Jug	1 gal	Liquid	Concentrated	Lavender	Odoban	**36P407**	4
Carpet Odor Eliminators							
Box	30 oz	Powder	Ready to Use	Floral	Arm And Hammer	**20L017**	6
Box	42.6 oz	Powder	Ready to Use	Fresh Air	Arm And Hammer	**20L018**	9
Fabric Fresheners							
Trigger Spray Bottle	32 oz	Liquid	Ready to Use	Fresh Scent	Febreze	**2XJ93**	8
Trigger Spray Bottle	32 oz	Liquid	Ready to Use	Fresh	Diversey	**32GR90**	12
Jug	1 gal	Liquid	Concentrated	Fresh Clean	Febreze	**46F047**	3
Fire Odor Eliminators							
Aerosol Spray Can	5 oz	Liquid	Ready to Use	Fresh Linen Scent	Odoban	**36P406**	12

Description	Compatible Grainger Item No.	Color	Material	Brand	Item No.	Pkg. Qty.
Air Freshener Holders						
Wall Mount Jar Holder	1YRP8, 1YRP9, 1YRR1	White	Metal	Tough Guy	**1YRR2**	1
Wall Mount Jar Holder	39F969	White	Plastic	Freshwave IAQ	**20PG73**	6

Odor Eliminator Machines

Odor machines dispense air fresheners into the air to eliminate foul smells. 33NY31 is a portable machine that treats odors originating from hard surfaces. Commonly used in large, commercial spaces such as hotel rooms, dormitories, and hospital rooms. 33NY30 is a stationary machine used to remove odors in dumpster rooms, compactor rooms, and loading docks. Find compatible Freshwave IAQ odor-eliminating liquids in the ad above.

33NY31

33NY30

Decription	Dispensing Method	Air Freshener Form	Coverage	Item No.
Portable Odor Machine	Fan	Liquid	5,000 cu ft	**33NY31**
Stationary Odor Machine	Fan	Liquid	10,000 cu ft	**33NY30**

Odor Control Information

NON-PARA CAKES/BLOCKS

Non-para or water-activated deodorizers include enzymes that break apart and dissolve with use and won't clog drains.

PARA CAKES/BLOCKS

Air-activated deodorizers are unaffected by water and melt slowly. Para blocks or rim hangers contain a chemical that's restricted for use in some states.

36WE50

489M94

55FJ83

2ZXE5

Urinal Screens

- Non-Para

Sit on urinal drains to eliminate unwanted odors in public and commercial restrooms. Urinal screens deodorize with a fresh scent and filter debris to prevent clogged drains.

Shape	Container Size	Product Series	▶CHOOSE: Color	▶CHOOSE: Fragrance	Brand	Item No.	Pkg. Qty.
Hexagon	58 g	—	Orange	Mango	Tough Guy	**36WE50**	10
Hexagon	58 g	—	Pink	Spiced Apple	Tough Guy	**36WE51**	10
Hexagon	58 g	Wave 3D	Green	Herbal Mint	Tough Guy	**36WE52**	10
Hexagon	58 g	Wave 3D	Green	Cucumber Melon	Tough Guy	**36WE53**	10
Round	1.44 oz	Eclipse	Blue	Ocean Breeze	Impact	**489M94**	12
Round	1.44 oz	Eclipse	Red	Apple Zing	Impact	**489M90**	12
Round	2 lb	Slant7	Green	Cucumber Melon	Tough Guy	**55FJ82**	10
Round	2 lb	Slant7	Red	Spiced Apple	Tough Guy	**55FJ83**	10
Round	2 lb	Slant7	Purple	Lavender	Tough Guy	**55FJ84**	10
Round	3.68 oz	ActiveAire	Blue, Orange, Purple, Yellow	Coastal Breeze, Sunscape Mango, Lavender, Citrus	Georgia-Pacific	**K2060**	12
Round	3.68 oz	ActiveAire Low Splash	Blue, Orange, Purple, Yellow	Coastal Breeze, Sunscape Mango, Lavender, Citrus	Georgia-Pacific	**K2059**	12
Triangular	2.27 oz	—	Red	Cherry	Tough Guy	**15F538**	12
Triangular	2.27 oz	—	Blue	Bubblegum	Tough Guy	**15F539**	12
Triangular	2.65 oz	—	Red	Cherry	Tough Guy	**2ZXE5**	12
Triangular	2.65 oz	—	Blue	Unscented	Tough Guy	**2ZXE4**	12

Urinal Screens with Cake

Sit on the urinal drain to keep odors under control in public and commercial restrooms. Screens filter debris to help prevent drains from clogging, and the urinal cake deodorizes and freshens urinal with every flush. Pkg. of 12.

10A683

2ZXE3

Shape	Container Size	Color	Fragrance	Item No.
Non-Para				
Round	3.5 oz	Pink	Pink Spice	**10A683**
Round	3.5 oz	Blue	Blue Spice	**10A684**
Triangular	3 oz	Blue	Springtime	**3EEE6**
Triangular	4 oz	Pink	Pink Spice	**10A685**
Triangular	4 oz	Blue	Blue Spice	**10F672**
Para				
Triangular	3 oz	White	Springtime	**3EEE5**
Triangular	4 oz	Blue	Apple	**2ZXE3**
Triangular	4 oz	Pink	Cherry	**2ZXE2**

2NXW3

3EEE7

3EEE9

Urinal Cakes & Toilet Tank Blocks

- Round shape

Urinal cakes sit at or near the drain of a urinal to maintain odor control in public and commercial restrooms. They absorb odors and leave a fresh fragrance with every flush to counteract odors.

Toilet tank blocks drop inside toilet tanks to control or eliminate odors at their source, especially in public and workplace restrooms. They are biodegradable and contain beneficial bacteria that release enzymes to help break down organic materials.

Container Size	Color	Fragrance	Brand	Item No.	Pkg. Qty.
Urinal Cakes					
Non-Para					
3 oz	White	Fresh Floral	Tough Guy	**18E921**	12
4 oz	Pink	Cherry	Tough Guy	**2NXW3**	12
Para					
4 oz	Pink	Cherry	Tough Guy	**2ZXE6**	12
4 oz	White	Springtime	Tough Guy	**3EEF6**	12
4 oz	White	Pleasant	Zep	**54ZK50**	12
4 oz	White	Pleasant	Zep	**54ZK51**	144
20 lb	Pink	Cherry	Tough Guy	**3EEE7**	1
Toilet Tank Blocks					
Non-Para					
3 oz	Blue	Unscented	Tough Guy	**3EEE9**	24

10G737

43NR51

2ZXE7

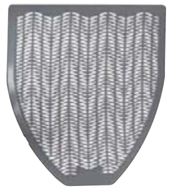
Toilet Rim Hangers

Clip onto toilets to help disinfect and deodorize toilets between cleanings. Rim hangers keep public and workplace restrooms smelling fresh.

Container Size	Color	Fragrance	Brand	Item No.	Pkg. Qty.
Non-Para					
52 g	Green	Herbal Mint	Tough Guy	**10G736**	12
52 g	Orange	Mango	Tough Guy	**10G737**	12
52 g	Pink	Spiced Apple	Tough Guy	**10G738**	12
52 g	Green	Cucumber Melon	Tough Guy	**36WE49**	12
1.75 oz	Blue	Green Apple	Zep	**43NR51**	24
Para					
1.8 oz	Green	Evergreen	Tough Guy	**2ZXE8**	12
3 oz	Pink	Cherry	Tough Guy	**2ZXE7**	12
3.5 oz	White	Springtime	Tough Guy	**3EEF7**	12

Toilet & Urinal Mats

Toilet Mat
2LHK1



Urinal Mat
2LHJ9

Sized to fit and placed near urinals and around toilets to absorb drips and splashes. Mats protect restroom floors from stains, absorb odors to keep restroom smelling fresh, and keep liquids from pooling around fixtures to help prevent slips and falls. They hold up through daily cleaning and foot traffic.

Mat Thickness	L	W	Color	Fragrance	Brand	Item No.	Pkg. Qty.
Toilet Floor Mats							
⅛ in	21 ⅝ in	23 in	Gray	Apple	Impact	**2LHK1**	6
⅛ in	15 ½ in	18 in	Black	Unscented	Pig	**54DE89**	6
⅛ in	15 ½ in	18 in	Black	Unscented	Pig	**452L18**	36
1 ¾ in	20 ⅜ in	18 ½ in	Black	Unscented	Tough Guy	**49EV66**	6
1 ¾ in	20 ⅜ in	18 ½ in	Gray	Unscented	Tough Guy	**49EV67**	6
Urinal Floor Mats							
⅛ in	20 ⅜ in	17 in	Gray	Apple	Impact	**2LHJ9**	6
⅛ in	17 in	18 in	Black	Unscented	Pig	**54DE85**	6
⅛ in	23 ¼ in	19 in	Black	Unscented	Pig	**54DE86**	6
⅛ in	25 ft	24 in	Black	Unscented	Pig	**54DE91**	1
⅛ in	17 in	18 in	Black	Unscented	Pig	**452L16**	36
⅛ in	23 ½ in	19 in	Black	Unscented	Pig	**452L17**	36
1 ¾ in	20 ⅜ in	18 ½ in	Black	Unscented	Tough Guy	**49EV64**	6
1 ¾ in	20 ⅜ in	18 ½ in	Gray	Unscented	Tough Guy	**49EV65**	6

Dish Soap

Liquid dish detergent helps remove grease and food residue from dishes, pots, and pans in handwashing applications.

Pots and pans cleaners are specially formulated to remove tough grease and oil. Cleaners generate long-lasting suds to help reduce sink turnover. 33NT91 is a pretreat for your pots and pans, just spray and wipe.

Foam scrubbers break up dirt from surfaces to remove tough dirt and grime, including buildup and stains.

22C534

4TKE6

1JYZ5

33NT91

Container Type	Container Size	Ready to Use/ Concentrated	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Dish Soap							
Bottle	3 oz	Ready to Use	Original	—	Palmolive	22C534	72
Bottle	7 oz	Ready to Use	Original	Dawn Ultra	Dawn	54XN56	18
Bottle	24 oz	Ready to Use	Pomegranate Splash	Dawn Ultra	Dawn	487J43	10
Bottle	25 oz	Concentrated	Unscented	Dishmate	Ecos Pro	4TKE6	1
Bottle	28 oz	Ready to Use	Lemon	Ultra Ajax	Ajax	40NE61	9
Bottle	28 oz	Ready to Use	Orange	Dawn Ultra	Dawn	487J41	8
Bottle	28 oz	Ready to Use	Orange	Ultra Ajax	Ajax	40NE60	9
Bottle	52 oz	Ready to Use	Orange	Ultra Ajax	Ajax	31HJ28	6
Jug	1 gal	Concentrated	Pear	Dishmate	Ecos Pro	39N031	1
Jug	1 gal	Concentrated	Unscented	Dishmate	Ecos Pro	4TKE7	1
Jug	1 gal	Concentrated	Unscented	Kitchen Mate	Ability One	5MM93	6
Bucket	5 gal	Concentrated	Unscented	Kitchen Mate	Ability One	5MM94	1
Bucket	5 gal	Concentrated	Unscented	Dishmate	Ecos Pro	4TKE8	1
Drum	55 gal	Concentrated	Unscented	Dishmate	Ecos Pro	39N035	1
Pots & Pans Cleaners							
Bottle	38 oz	Ready to Use	Lemon	Dawn Professional	Dawn	22C555	8
Bottle	38 oz	Ready to Use	Lemon	—	Joy	787DH7	8
Bottle	38 oz	Ready to Use	Unscented	Dawn Professional	Dawn	1JYZ5	8
Trigger Spray Bottle	32 oz	Ready to Use	Unscented	Dawn Professional	Dawn	33NT91	6
Jug	1 gal	Ready to Use	Lemon	Dawn Professional	Dawn	46F041	4
Jug	1 gal	Ready to Use	Lemon	—	Joy	787GM5	4
Jug	1 gal	Ready to Use	Unscented	Dawn Professional	Dawn	46F040	4
Jug	1 gal	Concentrated	Lemon	ProVisions	Zep	43NR60	4
Bucket	5 gal	Ready to Use	Original	Dawn Professional	Dawn	22C548	1
Bucket	5 gal	Ready to Use	Lemon	Joy Professional	Joy	54XT44	1

46F040

22C548

499L38

L	W	Brand	Item No.	Pkg. Qty.
Foam Scrubbers				
$4\frac{39}{64}$ in	$2\frac{13}{32}$ in	Mr. Clean	499L38	36
$4\frac{19}{32}$ in	$\frac{11}{16}$ in	Mr. Clean	55RT86	8
$4\frac{39}{64}$ in	$2\frac{13}{32}$ in	Mr. Clean	33X684	32
$4\frac{1}{4}$ in	$2\frac{3}{4}$ in	Tough Guy	55AC64	6

Dishwasher Detergents

Detergents remove food residue and grease from dishes, flatware, pots, and pans in machine-washing applications. Automatic dishwashing detergents are formulated to gently scrub dishes without leaving spots or film.

22C531

499L39

22C532

45CC86

30FX93

Container Type	Container Size	Ready to Use/ Concentrated	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Liquid							
Jug	120 oz	Ready to Use	Lemon	—	Cascade	22C531	4
Bucket	5 gal	Concentrated	Unscented	Wave	Ecos Pro	39N046	1
Pacs							
Bag	25 ct	Concentrated	Fresh	—	Cascade	499L39	5
Box	20 ct	Ready to Use	Fresh	Finish Powerball	Finish	22C532	8
Box	85 ct	Ready to Use	Fresh	Finish Powerball	Finish	45CC86	4
Powder							
Box	75 oz	Ready to Use	Fresh	Cascade Professional	Cascade	30FX93	7

49X159

240P20

60MM37

Dishwasher Machine Cleaners

Ready-to-use cleaners power away limescale and mineral buildup for maximum dishwasher performance.

Container Type	Container Size	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Tablets						
Bag	6 ct	Vinegar	Affresh	Whirlpool	49X159	1
Powder						
Bottle	16 oz	Lemon	Instant Power	Instant Power Professional	240P20	1
Liquid						
Bottle	12 oz	Floral	Dishwasher Magic	Glisten	60MM37	6

Dishwasher Rinse Aids

451D64

32GR04

Liquid rinse aids wash away soap and detergent leaving dishes clean. Rinse additives prevent water spots and etching in automatic dishwashers. Concentrated and unscented formulas.

Container Type	Container Size	Product Series	Brand	Item No.	Pkg. Qty.
Jug	1 gal	ProVisions	Zep	451D64	4
Jug	1 gal	Suma Select	Diversey	32GR02	4
Bucket	5 gal	ProVisions	Zep	451D65	1
Bucket	5 gal	Suma Select	Diversey	32GR04	1

24L297

55YC68

6VLC2

2CXX5

40K039

33M002

55YC67

24L304

Laundry Detergents

- Phosphate free

Detergents for high-efficiency (HE) machines are specially formulated to clean clothing and fabrics in energy-saving front- or top-load washing machines that use less water. They also work with traditional washing machines.

Detergents for traditional machines remove tough, ground-in dirt and stains from clothing and linens. Traditional washing machines use more detergent and water than HE machines to clean.

61KK32 includes fabric softener. 24L304 and 24L305 contain bleach.

Container Type	Container Size	Fragrance	Dye Free	Brand	Item No.	Pkg. Qty.
Laundry Detergents for High-Efficiency (HE) Machines						
Liquid						
Jug	50 oz	Unscented	Yes	Arm & Hammer	**24L297**	8
Jug	92 oz	Original	No	Tide	**55YC68**	4
Jug	92 oz	Fresh	No	Tide	**61KK32**	4
Jug	100 oz	Unscented	Yes	Tough Guy	**5GUU1**	1
Jug	210 oz	Unscented	Yes	Tough Guy	**5GUU2**	1
Jug	213 oz	Clean Burst	No	Arm & Hammer	**54XU26**	2
Bucket	5 gal	Lavender	Yes	Ecos Pro	**39N057**	1
Bucket	5 gal	Unscented	Yes	Ecos Pro	**6VLC2**	1
Powder						
Box	5.7 oz	Original	No	Tide	**61KK34**	14
Box	50 lb	Unscented	No	Tough Guy	**2CXX5**	1
Box	100 lb	Unscented	No	Tough Guy	**2CXX6**	1
Pacs						
Canister	50 ct	Unscented	Yes	Tough Guy	**33M001**	1
Canister	72 ct	Spring Meadow	No	Tide	**40K039**	4
Canister	130 ct	Unscented	Yes	Tough Guy	**33M002**	1
Laundry Detergents for Traditional Machines						
Liquid						
Bottle	25 oz	Unscented	No	Tide	**24L311**	6
Jug	46 oz	Original	No	Tide	**55YC66**	6
Jug	46 oz	Unscented	Yes	Tide	**55YC67**	6
Jug	92 oz	Refreshing Breeze	No	Tide	**55YC71**	4
Bucket	5 gal	Mountain	No	Purex	**24L303**	1
Powder						
Box	1.4 oz	Fresh	No	Purex	**24L305**	156
Box	95 oz	Unscented	No	Tide	**46F045**	3
Bucket	15.6 lb	Fresh	No	Purex	**24L304**	1
Bucket	22 lb	Unscented	No	Diversey	**32GT06**	1

1XEK4

32GR80

1XEK3

20J213

15V333

Fabric Softeners

Soften fibers, reduce wrinkles, and reduce static.

Liquids are absorbed by the fibers during the laundry rinse cycle, keeping fibers smooth and strong as they withstand spinning, tumbling, and heat.

Sheets, or dryer sheets, keep fabrics soft, fragrant, wrinkle-free, and reduce static cling. Sheets are added to the dryer with wet laundry and are activated by heat and moisture.

Balls help soften laundry and prevent wrinkles while drying without the use of chemicals found in fabric softener liquids and sheets. Reusable and often recommended for sensitive skin.

Container Type	Container Size	Fragrance	Brand	Item No.	Pkg. Qty.
Liquids					
Bottle	32 oz	Unscented	Seventh Generation	**44C459**	6
Jug	51 oz	Floral	Downy	**787DH6**	4
Jug	51 oz	Unscented	Downy	**1XEK4**	8
Sheets					
Box	15 ct	Fresh	Bounce	**49KA83**	15
Box	40 ct	Floral	Cuddle Soft	**61HK42**	12
Box	80 ct	Unscented	Seventh Generation	**785RU7**	4
Box	100 ct	Floral	Diversey	**32GR80**	6
Box	120 ct	Fresh	Snuggle	**20J213**	6
Box	144 ct	Mountain Rain Scent	Arm & Hammer	**24L293**	6
Box	160 ct	Fresh	Bounce	**1XEK3**	6
Balls					
Box	2 ct	Unscented	Honey-Can-Do	**15V333**	2

43NR77

Laundry Bleach

This laundry additive helps remove dirt and stains, whitens whites, brightens colors, and eliminates the dinginess of fabrics which may have grayed or yellowed after repeated laundering. Ideal for disinfecting and deodorizing.

Container Type	Container Size	Fragrance	Color Safe	Brand	Item No.	Pkg. Qty.
Liquid, Concentrated						
Jug	1 gal	Unscented	No	Zep	**43NR77**	4
Bucket	5 gal	Unscented	No	Zep	**54ZP27**	1
Powder, Ready to Use						
Bucket	17.5 lb	Mountain	Yes	Borateem	**24L299**	1

33NT95

787MD0

24L287

Fabric Stain Removers

- Color safe

Liquid removers extend the life of fabrics and clothing by penetrating fibers and breaking down heavy stains. They are effective on difficult stains such as motor oil, grass, blood, dirt, and food residue.

787MD0 is a pre-treat spray that kills odor-causing bacteria in laundry and removes stains.

Description	Container Type	Container Size	Fragrance	Brand	Item No.	Pkg. Qty.
Fabric Stain Remover	Pen	0.34 oz	Unscented	Tide	**33NT95**	6
Fabric Stain Remover	Trigger Spray Bottle	12 oz	Unscented	Oxiclean	**24L298**	12
Fabric Stain Remover	Trigger Spray Bottle	22 oz	Unscented	Spray 'N Wash	**24L287**	12
Fabric Sanitizer and Stain Remover	Trigger Spray Bottle	24 oz	Active Clean	Clorox	**787MD0**	6

60MM31

240P26

26CM06

Washing Machine Cleaners

Cleaners remove grime, soap residue, minerals, and chemicals without harming rubber or plastic parts. They also disinfect odor-causing bacteria and help to remove hard water buildup, lime, and scale. A monthly cleaning helps boost the efficiency and lifespan of washers.

Container Type	Container Size	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Liquid						
Bottle	12 oz	Floral	Washer Magic	Glisten	**60MM31**	6
Powder						
Bottle	16 oz	Lemon	Instant Power	Instant Power Professional	**240P26**	1
Tablets						
Bag	3 ct	Citrus	Affresh	Whirlpool	**26CM06**	1

Spot and Stain Removers

Liquid removers eliminate stains, dirt, and odors from textiles. These cleaners are commonly used to maintain carpets and upholstered furniture in commercial facilities. Removers also release oil- and water-based soils from carpet and upholstery. They deodorize as they penetrate leaving no residue.

Removes	Container Size	Ready to Use/ Concentrated	pH Value	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Aerosol Spray Can								
Spots, Stains	17 oz	Ready to Use	Alkaline	Unscented	Scotchgard	3M	**3U121**	1
Odors, Spots, Stains	18 oz	Ready to Use	Neutral	Pleasant	Liquid Alive	ITW Dymon	**6UAY3**	1
Spots, Stains	18 oz	Ready to Use	Alkaline	Unscented	Zep Rescue	Zep	**451D70**	12
Oil Based Stains, Water Based Stains	18 oz	Ready to Use	Not Rated	Unscented	—	Spot Shot	**1XEG7**	12
Trigger Spray Bottle								
Odors, Stains	22 oz	Ready to Use	Alkaline	Citrus	—	Krud Kutter	**453V31**	1
Spots, Stains	32 oz	Ready to Use	Neutral	Unscented	—	Resolve	**24L290**	12
Soils	32 oz	Ready to Use	Neutral	Unscented	Zep Break-Away	Zep	**450Z86**	12
Soils, Food, Pet, Smoke, Odors	32 oz	Ready to Use	Not Rated	Pleasant	—	Spot Shot	**1XEG6**	12
Bottle								
Chocolate, Coffee, Grape Juice, Oil, Stains, Wine	32 oz	Ready to Use	Neutral	Floral	—	Diversey	**10F961**	1
Spills, Spots, Stains	32 oz	Ready to Use	Neutral	Unscented	—	Tough Guy	**490W82**	1
Blood, Vomit, Stains, Urine	32 oz	Ready to Use	Alkaline	Unscented	—	Diversey	**10F962**	1
Spots, Stains	32 oz	Ready to Use	Alkaline	Unscented	—	Lift Off	**24L275**	6
Coffee, Cola, Stains, Tea	32 oz	Ready to Use	Acidic	Fruity	—	Diversey	**11Y652**	1
Portion Measuring Bottle								
Odors	32 oz	Concentrated	Neutral	Floral	—	Diversey	**11Y651**	1
Jug								
Odors, Organic Stains	1 gal	Ready to Use	Neutral	Pleasant	Zep Odorstroyer Extra	Zep	**451D04**	4
Odors, Stains	1 gal	Ready to Use	Neutral	Lemon	—	Ecos Pro	**4TKA2**	1
Odors, Pet Stains	1 gal	Ready to Use	Alkaline	Fresh	Instant Power Professional	Instant Power Professional	**49XX99**	1

3U121

6UAY3

24L290

490W82

11Y651

49XX99

Carpet and Upholstery Cleaners

- 1 gal jugs

Shampoos work with rotary cleaning methods to remove spills, spots, and stains from carpet, area rugs, and upholstery. They loosen carpet fibers, when combined with water, to remove deeply embedded soils with no tacky residue.

Presprays loosen dirt and stains in heavily soiled carpets prior to shampooing or extraction cleaning. They contain oil repellents to help fabrics and carpets resist resoiling.

Odor eliminator additive removes odors from carpeting and upholstery. Penetrates fibers to eliminate unpleasant smells including cigarette smoke, perspiration, and mildew.

Note: Find Carpet Cleaners for Extraction Machines on page 1577.

Removes	Ready to Use/ Concentrated	pH Value	Fragrance	Product Series	Brand	Item No.
Carpet Shampoos						
Spills, Spots, Stains	Concentrated	Neutral	Fruity	—	Tough Guy	**5FVZ3**
Soils	Concentrated	Alkaline	Fruity	—	Diversey	**2ZHU3**
Spots	Concentrated	Alkaline	Floral	Scotchgard	3M	**5ND38**
Carpet Presprays						
Soils	Concentrated	Neutral	Fruity	—	Diversey	**10F960**
Food, Grease, Oil, Soils	Concentrated	Alkaline	Lavender	—	Tough Guy	**36MF96**
Carpet Odor Eliminator						
Odors	Ready to Use	Neutral	Unscented	—	Freshwave IAQ	**39F985**

2ZHU3

5ND38

36MF96

39F985

Grill and Oven Cleaners

Cleaners help remove baked-on grease and food soils from cooking surfaces and kitchen appliances. They help restore a clean appearance and improve the performance of cooking surfaces. Grill and oven cleaners reduce any potential damage caused by scrubbing with abrasives.

Description	Container Type	Container Size	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Liquid							
Griddle Cleaner and Degreaser	Packet	3.2 oz	Unscented	Scotch-Brite	Scotch-Brite	**16Z997**	40
Oven Cleaner	Aerosol Spray Can	20 oz	Citrus	—	Tough Guy	**2DBX5**	1
Oven Cleaner	Aerosol Spray Can	24 oz	Lemon	—	Easy Off	**22C517**	6
Oven and Grill Cleaner	Aerosol Spray Can	24 oz	Unscented	—	Easy Off	**1XEH2**	6
Oven Cleaner	Trigger Spray Bottle	14 oz	Unscented	—	Goo Gone	**39F167**	1
Kitchen and Oven Degreaser	Trigger Spray Bottle	14 oz	Citrus	—	Goo Gone	**39F166**	1
Oven and Grill Cleaner	Trigger Spray Bottle	32 oz	Unscented	Suma Grill	Diversey	**32GR76**	6
Oven and Grill Cleaner	Trigger Spray Bottle	32 oz	Unscented	Suma Foam Free	Diversey	**29RJ07**	12
Oven Cleaner	Bottle	32 oz	Unscented	Oven Brite	Zep	**451D18**	12
Oven Cleaner	Jug	64 oz	Unscented	—	Easy-Off	**22C519**	6
Oven and Grill Cleaner	Jug	1 gal	Unscented	Suma	Diversey	**32GR77**	4
Foam							
Oven and Grill Cleaner	Aerosol Spray Can	20 oz	Pleasant	Fantastik Max	Fantastik	**60TZ77**	6

2DBX5

22C517

1XEH2

39F167

451D18

60TZ77

Scan. Order. Done.
Details on page A1.

5URF7 41C260 2DBY3 6VLA2 61LV33

Metal Polish & Cleaners

Polish and cleaners keep metal and other hard, nonporous surfaces, free from dust, water, fingerprints, and streaking. They will not damage finishes. Ready to use.

Container Type	Container Size	Surfaces for Use On	Brand	Item No.	Pkg. Qty.
Metal Polish					
Liquid					
Aerosol Spray Can	10 oz	Stainless Steel	Sheila Shine	**5URF7**	1
Non-Aerosol Can	1 gal		Sheila Shine	**5URF9**	1
Wipes					
Canister	75 ct	Stainless Steel	Tough Guy	**24Y902**	1
Canister	30 ct		Scrubs	**41C260**	6
Metal Cleaners & Polish					
Paste					
Tube	6.3 oz	Aluminum, Brass, Bronze, Chrome, Copper, Gold, Nickel, Pewter, Silver, Stainless Steel, Zinc	Zep	**451A35**	6
Liquid					
Aerosol Spray Can	16 oz	Stainless Steel	Tough Guy	**2DBY3**	1
Aerosol Spray Can	17 oz	Aluminum, Brass, Chrome, Stainless Steel	Twinkle	**20J218**	12
Aerosol Spray Can	17 oz	Stainless Steel	Weiman	**53YZ87**	1
Aerosol Spray Can	17 oz	Aluminum, Chrome, Stainless Steel	Sprayon	**6KHF2**	1
Aerosol Spray Can	21 oz		3M	**2U428**	1
Trigger Spray Bottle	32 oz	Aluminum, Brass, Chrome, Copper, Silver, Stainless Steel, Steel, Zinc	Ecos Pro	**6VLA2**	1
Trigger Spray Bottle	32 oz	Aluminum, Brass, Copper, Stainless Steel	Diversey	**33X329**	6
Trigger Spray Bottle	32 oz	Stainless Steel	3M	**46UA67**	6
Metal Cleaners					
Liquid					
Aerosol Spray Can	12 oz	Stainless Steel	CLR	**61LV33**	1
Aerosol Spray Can	15 oz	Aluminum, Brass, Copper, Steel, Stainless Steel, Zinc	Misty	**20H881**	12
Aerosol Spray Can	16 oz	Aluminum, Brass, Chrome, Copper, Stainless Steel	ITW Dymon	**6UAX8**	1
Aerosol Spray Can	16 oz	Stainless Steel	Diversey	**10A326**	1
Aerosol Spray Can	18 oz		Tough Guy	**24Y898**	1

60NP83 39C349 10A327

Stone Polish, Cleaners & Sealers

Polish and sealers restore and maintain shine on stone surfaces. Specialized formulas clean and protect a range of stone surfaces from natural stone to engineered stone surfaces. **Cleaners** remove dirt, rust, chalking, efflorescence, and atmospheric stains without scratching.

Container Type	Container Size	Surfaces for Use On	Brand	Item No.	Pkg. Qty.
Stone Polish					
Ready to Use Liquid					
Trigger Spray Bottle	24 oz	Granite	Simple Green	**60NP83**	1
Stone Cleaners					
Ready to Use Paste					
Jar	1 lb	Granite	Starrett	**6RDL4**	12
Ready to Use Liquid					
Aerosol Spray Can	12 oz	Corian, Granite, Marble	CLR	**61LV31**	1
Trigger Spray Bottle	24 oz	Granite	Simple Green	**60NP82**	1
Bottle	32 oz	Granite	Starrett	**6RDL3**	12
Jug	1 gal	Concrete, Corian, Granite, Limestone, Marble, Quartz, Slate	Dumond	**39C349**	1
Jug	1 gal	Limestone, Marble	Dumond	**39C351**	1
Bucket	5 gal	Brick, Concrete	Dumond	**39C360**	1
Concentrated Liquid					
Jug	32 oz	Cement, Granite, Marble, Slate	Miracle Sealants Company	**48RE97**	6
Stone Sealers					
Ready to Use Liquid					
Aerosol Spray Can	15 oz	Limestone, Marble, Slate	Miracle Sealants Company	**48RE93**	6
Trigger Spray Bottle	16 oz	Glass, Granite	Flitz Premium Polishing Products	**4HWR8**	1
Jug	32 oz	Granite, Marble, Quartz, Slate	Miracle Sealants Company	**48RE94**	6
Jug	16 oz	Granite, Limestone, Marble, Slate	Miracle Sealants Company	**48RE92**	6
Box	5 gal	—	Diversey	**10A327**	1

Furniture Polish & Wood Cleaners

Polish and cleaners enhance the natural beauty, texture, and grain of real wood surfaces. Cleaners help dust, clean, condition, and protect wood with natural oils and conditioners. Ready to use.

20K995 2DBY8 24K643 2ZWJ4 1TBP1

Container Type	Container Size	Cleaner Form	Surfaces for Use On	Brand	Item No.	Pkg. Qty.
Furniture Polish						
Aerosol Spray Can	9.7 oz	Liquid	Granite, Laminate, Leather, Quartz, Stainless Steel, Wood	Pledge	**792AA1**	6
Aerosol Spray Can	12.5 oz	Liquid	Vinyl, Wood	Old English	**20K995**	12
Aerosol Spray Can	16 oz	Liquid	Wood	Zep	**451F30**	12
Aerosol Spray Can	20 oz	Liquid	Furniture	Tough Guy	**2DBY8**	1
Jug	1 gal	Liquid	Acrylics, Brass, Ceramic, Chrome, Enamel, Fiberglass, Marble, Porcelain, Stainless Steel, Stone, Vinyl, Wood	Diversey	**32GM43**	4
Soft Pack	24 ct	Wipes	—	Pledge	**24K643**	12
Furniture Cleaner & Polish						
Aerosol Spray Can	16 oz	Liquid	Laminate, Wood	Misty	**20H877**	12
Bottle	1 gal	Liquid	Cabinets, Furniture, Wood	Rejuvenate	**52KA98**	2
Wood Cleaners						
Aerosol Spray Can	10 oz	Liquid	Wood	Scotts Liquid Gold	**39FD30**	1
Trigger Spray Bottle	16 oz	Liquid	Wood	Weiman	**56HU58**	6
Jug	1 gal	Liquid	Laminate, Linoleum, Wood	Murphy's Oil	**2ZWJ4**	4
Wood Oil						
Non-Aerosol Can	1 qt	Liquid	Wood	Rust-Oleum	**1TBP1**	1

Duster Kits and Refills

These items trap and lock dust and allergens better than feather dusters. All kit dusters have a plastic handle.

784J13

20L005

52LC57

Description	Color	Includes	Item No.	Pkg. Qty.
360° Duster Starter Kit	Yellow	1 handle and 2 round head dusters per pkg.	**784J13**	4
360° Extendable Handle Duster Starter Kit	Yellow	1 handle and 3 round head dusters per pkg.	**20L005**	6
360° Duster Refills—For Use With 784J13 and 20L005	Yellow	6 round head refills per pkg.	**52LC54**	4
Duster Starter Kit	Yellow/White/Blue	1 handle and 5 flat head dusters per pkg.	**52LC57**	6

Dusting Cloths

2U267

Brawny Professional soft, carded rayon cloths are specially treated to attract and hold dust particles. Disposable. 200 per pkg.

Color	L	W	Item No.
Yellow	24 in	17 in	**2U267**
Yellow	24 in	24 in	**1CF44**

494K90 39M999

6KHD7 4HK51

Graffiti Removers

Ready-to-use removers effectively clean up paint, permanent marker, ink, crayon, and adhesive from multiple hard surfaces. 6KHD7 and 6UAX9 are aerosols with a thick gelled formula that clings to vertical surfaces. Wipes are premoistened and offer an efficient alternative to using multiple items, such as rags, buckets, and spray bottles.

Container Type	Container/Sheet Size	Fragrance	Brand	Item No.	Pkg. Qty.
Liquid					
Aerosol Spray Can	16 oz	Unscented	CRC	**12W318**	1
Aerosol Spray Can	16 oz	Unscented	Goof Off	**494K90**	1
Aerosol Spray Can	17.5 oz	Unscented	Tough Guy	**6KHD7**	1
Aerosol Spray Can	17.5 oz	Unscented	ITW Dymon	**6UAX9**	1
Aerosol Spray Can	20 oz	Citrus	Zep	**449W34**	12
Trigger Spray Bottle	32 oz	Unscented	Krud Kutter	**10K017**	1
Trigger Spray Bottle	32 oz	Unscented	Ecos Pro	**39M999**	1
Bottle	32 oz	Unscented	3M	**4WF45**	12
Jug	1 gal	Unscented	Krud Kutter	**10K018**	1
Jug	5 gal	Unscented	Krud Kutter	**10K019**	1
Drum	55 gal	Unscented	Krud Kutter	**10K020**	1
Paste					
Bucket	64 oz	Slight Almond	Dumond	**49XF28**	2
Wipes					
Canister	30 ct/12 in x 10 in	Unscented	ITW Dymon	**4HK51**	1
Canister	30 ct/12 ¼ in x 10 ½ in	Solvent	Tough Guy	**5EWC2**	1

2LUZ2 19YY53 39F165 10K012 6XFF4

Adhesive Removers

These items remove the sticky substances that decals, tape, stickers, labels, and gum leave behind on hard surfaces, including walls, furniture, and vehicles. Ready to use.

Container Size	Surfaces for Use On	Brand	Item No.	Pkg. Qty.
Pen				
0.08 oz	Ceramic, Painted Surfaces, Plastics, Porcelain	Goo Gone	**2LUZ2**	12
Aerosol Spray Can				
4.5 oz	Aluminum, Fiberglass, Plastics, Steel	Techspray	**19YY53**	1
5 oz	Aluminum, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Rubber, Stainless Steel, Steel	Tough Guy	**2DCB9**	1
12 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Goof Off	**6XFF6**	1
20 oz	Aluminum, Chrome, Stainless Steel, Steel	CRC	**45DY75**	1
Trigger Spray Bottle				
12.5 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Stainless Steel, Steel	Goo Gone	**39F165**	1
16 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Krud Kutter	**10K013**	1
22 oz	Aluminum, Carpet, Ceramic, Fiberglass, Painted Surfaces, Plastics	Lift Off	**24L276**	6
25 oz	Ceramic, Chrome, Fiberglass, Stainless Steel	Goo Gone	**449W41**	1
Bottle				
8 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Stainless Steel, Steel	Goo Gone	**1NNU2**	12
8 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Krud Kutter	**10K012**	1
16 oz	Ceramic, Chrome, Fiberglass, Stainless Steel	Goo Gone	**49XZ47**	4
32 oz	Carpet	Diversey	**2ZHV3**	1
Non-Aerosol Can				
16 oz	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Goof Off	**6XFF4**	1
1 gal		Goof Off	**6XFF5**	1

Container Type	Container Size	Ready to Use/ Concentrated	Surfaces for Use On	Brand	Item No.	Pkg. Qty.
Mold & Mildew Removers						
Trigger Spray Bottle	32 oz	Ready to Use	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Mold Armor	**6XFG7**	1
	32 oz	Ready to Use	Fiberglass, Plastics, Porcelain	Zinsser	**4FZX8**	1
	32 oz	Ready to Use	Hard Nonporous Surfaces	Moldex	**4WGE2**	1 *
	32 oz	Ready to Use		Lysol	**45CC91**	12
Bottle	1 gal	Ready to Use		Moldex	**4WGE3**	1 *
Jug	64 oz	Concentrated		Moldex	**4WGE4**	1
	1 gal	Concentrated	Aluminum, Painted Surfaces, Plastics, Rubber, Steel	Wet And Forget	**6EFN7**	1
Bleach-Free Mold & Mildew Removers						
Trigger Spray Bottle	32 oz	Ready to Use	Hard Nonporous Surfaces	Krud Kutter	**453V30**	1
	32 oz	Ready to Use		Moldex	**4WGE7**	1
Hose End Connection Bottle	56 oz	Ready to Use		Moldex	**52JY95**	1
Mold & Mildew Disinfectants						
Trigger Spray Bottle	32 oz	Ready to Use	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Mold Armor	**40CP12**	1 *
Jug	32 oz	Ready to Use	Fiberglass, Porcelain	Tilex	**1AU33**	9
	1 gal	Ready to Use	Hard Nonporous Surfaces	Wet And Forget	**32KL56**	1 *
	1 gal	Ready to Use	Fiberglass, Porcelain	Tilex	**20K972**	4
House Cleaner & Mildew Removers						
Hose End Connection Bottle	64 oz	Ready to Use	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Mold Armor	**405Y21**	6
Jug	1 qt	Ready to Use	Hard Nonporous Surfaces	Zinsser	**4HFF7**	1
	1 gal	Concentrated		Zinsser	**4HFF6**	1
Roof Cleaner & Mildew Remover						
Jug	1 gal	Ready to Use	Hard Nonporous Surfaces	Zinsser	**4HFF9**	1
Mold Control						
Trigger Spray Bottle	32 oz	Ready to Use	Aluminum, Ceramic, Chrome, Fiberglass, Galvanized Steel, Painted Surfaces, Plastics, Porcelain, Rubber, Stainless Steel, Steel	Mold Armor	**6XFG8**	1 *
	32 oz	Ready to Use	Hard Nonporous Surfaces	Concrobium	**3TYC4**	1 *

** These removers leave a protective layer to control the growth of mold and mildew.*

6XFG7 52JY95 32KL56

4HFF6 4HFF9 3TYC4

Mold & Mildew Removers

Removers seep into porous surfaces to remove embedded fungal spores and prevent future damage by inhibiting growth and stopping airborne spore transmission.

Mold Control Fogger Machine

This electric machine uses liquid oil- or water-based mold control products to saturate the air in enclosed spaces or small rooms to kill airborne and surface-based mold spores. It dispenses a fog that coats surfaces including walls and ceilings to kill mold spores and prevent future growth.

Mold control chemicals work with the fogger to eliminate and prevent mold and mildew. No rinse required, nonflammable, and plastic safe. VOC content is 0%. Ready to use.

Tank Size	Surfaces for Use On	Application	Item No.
Mold Fogger Machine			
1 gal	Carpet, Hardwood, Laminate, Tile, Vinyl	Fogging to Remove Mold from Surfaces	**44ZA19**

Container Type	Container Size	Surfaces for Use On	Item No.
Mold Control Chemicals			
Jug	1 gal	Hard Nonporous Surfaces	**3TYC6**
Bucket	5 gal		**44ZA25**

44ZA19

3TYC6

J-Fill Portable Dispenser (Chemical not included.) 46E798

J-Fill J-100 Dispenser 32GT45

J-Fill Uno (Low Flow) Dispenser 45DW69

J-Fill Duo Dispenser 13E901

J-Fill Sink Mizer Dispenser 45DW71

J-Fill QuattroSelect Dispenser 10C407

Disinfectant Cleaner 10C417

GP Forward Preprinted 32 oz. Bottle with Sprayer 56LL47

Diversey

J-Fill Dilution Control Systems

These systems dispense accurate cleaning solutions with no measuring, mixing or mess, and no tampering. No metering tip installation—bottles come pre-tipped. Numbered and color-coded labels are visible through product windows for easy product identification. System dispenses cleaners with a push of a button or a squeeze of a trigger on 46E798. **Dilution control chemicals** come in a Pkg. of 2.

No. of Chemicals Dispensed	Dispenser Series	Dispenser Fills	Features	Item No.
Dilution Control Dispensers				
Portable Mount				
1	J-Fill	Auto Scrubbers, Bottles, Buckets	Air Gap Backflow Prevention	**46E798**
Wall Mount				
1	J-Fill J-100	Buckets	High Flow	**32GT45**
1	J-Fill Uno	Bottles, Buckets	Low Flow, Air Gap Backflow Prevention, Lockable Cabinet	**45DW69**
1	J-Fill Uno	Bottles, Buckets	High Flow, Lockable Cabinet, Air Gap Backflow Prevention	**45DW70**
2	J-Fill Duo	Bottles, Buckets	Air Gap Backflow Prevention, High Flow and Low Flow, Lockable Cabinet	**13E901**
2	J-Fill Sink Mizer	Sinks	Fills (3) Compartment Sinks	**45DW71**
2	J-Fill Sink Mizer	Sinks	Stainless Steel Construction	**45DW72**
4	J-Fill QuattroSelect	Auto Scrubbers, Bottles, Buckets	Safe Gap Backflow Prevention, High Flow and Low Flow, Lockable Cabinet	**10C407**
4	J-Fill QuattroSelect	Auto Scrubbers, Bottles, Buckets	Closed Door Lockable Cabinet, High Flow and Low Flow, Safe Gap Backflow Prevention	**19MP89**

Product Label	Chemical Series	Label Color Coding	Label Number	Fragrance	Std.	Item No.
Dilution Control Chemicals, 2.5 L						
All Purpose Cleaners						
All Purpose Cleaner	PERdiem	Blue	58	Unscented	CFIA	**11Y612**
All Purpose Cleaner	Stride	Orange	53	Fresh	EcoLogo, Green Seal	**11Y664**
Butyl All Purpose Cleaner	Spitfire	Red	21	Pine	CFIA, Kosher, NSF Rated	**46E776**
General Purpose Cleaner	Gp Forward		8	Citrus	CFIA	**10C412**
General Purpose Cleaner	Diversey	Green	15	Citrus	Kosher	**46E768**
Multi-Surface Cleaner	Alpha-HP		52	Citrus	Green Seal, Greenguard	**20J837**
Neutral Cleaner	Stride	Orange	3	Citrus	CFIA, Greenguard, Green Seal, Halal, Kosher	**10C411**
Bathroom Cleaners						
Bathroom Cleaner	Crew	Blue	44	Unscented	EcoLogo	**11Y681**
Disinfectant Bathroom Cleaner	Crew		22	Floral	EPA Registered	**10C415**
Degreaser						
Grease Release Cleaner	Suma	Yellow	3.5	Citrus	Kosher, NSF Rated	**10F973**
Deodorizers						
Fabric Freshener	Good Sense	Blue	—	Fresh	—	**46E767**
Liquid Air Freshener	Good Sense	Red	7	Clean Fresh	TSCA	**46E802**
Odor Eliminator	Good Sense	Blue	7	Fresh	TSCA	**11Y689**
Odor Eliminator	Good Sense	Orange	7	Unscented	TSCA	**11Y690**
Disinfectant Cleaners						
Cleaner and Disinfectant	Expose	Blue	10	Citrus	EPA Registered	**11Y656**
Cleaner and Disinfectant	Triad	Green	6	Minty	EPA Registered	**10C418**
Cleaner and Disinfectant	Oxivir	Purple	57	Minty	EPA Registered	**11Y610**
Deodorizing Cleaner and Disinfectant	Virex	Blue	5	Minty	EPA Registered	**10C417**
Multi-Surface Disinfectant Cleaner	Alpha-HP	Green	67	Citrus	EPA Registered	**35Z914**
Floor Care						
Carpet Extraction Cleaner	Diversey	Green	C1	Citrus	WoolSafe	**11Y648**
Carpet Extraction Rinse	Diversey	Blue	27	Fruity	WoolSafe	**46E769**
Floor Cleaner	Prominence	Yellow	66	Citrus	Green Seal	**11Y604**
Floor Maintainer	Revive	Red	51	Fresh	HMIS, NFPA	**11Y645**
Heavy Duty Prespray	Diversey	Blue	40	Floral	CRI Seal of Approval, WoolSafe	**11Y649**
High Efficiency Floor Stripper	Pro Strip	Red	—	Unscented	Green Seal	**46E810**
Neutral Floor Cleaner	Stride		18	Floral	EcoLogo, Green Seal, Kosher	**11Y663**
Soil Release/ Bonnet Buff	Diversey	Blue	—	Citrus	—	**46E771**
Glass Cleaners						
Glass and Multi-Surface Cleaner	Glance NA	Blue	2	Unscented	CFIA, Halal, Kosher, NSF Rated	**10C410**
Glass and Multi-Surface Cleaner	Glance HC		1	Unscented	TSCA	**24K646**
Laundry Detergent						
Liquid Laundry Detergent	No Series	Yellow	—	Unscented	TSCA	**36RE31**
Sanitizer						
Sanitizer	J-512	Red	—	Unscented	EPA Registered	**33X337**

Imprinting	Dispensing Type	Bottle Color	Sprayer Color	Item No.	Pkg. Qty.
Dilution Control Preprinted 32-oz. Bottles with Sprayer					
Bath Mate Acid-Free Disinfectant Washroom Cleaner Concentrate 16	Mist, Stream	White	White	**18A005**	12
Bath Mate Non-Acid Washroom Cleaner Concentrate 16	Mist, Stream	White	White	**18A006**	12
Breakdown XC Odor Eliminator Concentrate Fresh 40	Mist, Stream	White	White	**18A011**	12
Crew NA SC Non-Acid Bowl and Bathroom Disinfectant Cleaner	Stream	Clear	Clear	**56LL44**	12
Crew Restroom Floor and Surface Non-Acid Disinfectant Cleaner	Stream	Clear	Clear	**10F968**	1 *
Crew Shower, Tub, & Tile Cleaner HC 9	Mist, Stream	White	White	**18A004**	12
E9.6 J-Works Tempest Solvent-Free Cleaner/Degreaser	Mist, Stream	White	White	**18A015**	12
Glance NA Glass and Multi-Purpose Cleaner Non-Ammoniated	Stream	Clear	Clear	**56LL48**	12
GP ForwardTM/MC General Purpose Cleaner	Stream	Clear	Clear	**56LL47**	12
Hot Springs Heavy-Duty General Purpose Cleaner	Mist, Stream	White	White	**18A007**	12
Morning Mist Neutral Disinfectant Cleaner 33	Mist, Stream	White	White	**18A009**	12
Oxivir Five 16 Concentrate One Step Disinfectant Cleaner 57	Mist, Stream	White	White	**18A014**	12
PERdiem General Purpose Cleaner with Hydrogen Peroxide 58	Mist, Stream	White	White	**18A013**	12
Raindance SC Low Foam Neutral Floor Cleaner 50	Mist, Stream	White	White	**18A012**	12
Speedball 2000 Heavy-Duty Spray Cleaner Concentrate 32	Mist, Stream	White	White	**18A008**	12
Spitfire SC Power Cleaner	Stream	Clear	Clear	**56LL45**	12
Triad(TM/MC) III Disinfectant Cleaner	Stream	Clear	Clear	**56LL43**	12
Virex II 256 One Step Disinfectant Cleaner	Stream	Clear	Clear	**56LL42**	12

** Can only be shipped in multiples of 12.*

RTD Dilution Control System

WATER HOSE AND QUICK CONNECT KIT

Attach and detach bottles from water supply. Hookup kit includes 5-ft. water hose, shutoff valve, and female quick-connect.

DILUTION CONTROL CHEMICALS

Maintenance-free dilution control system is built right into the bottle. Units easily attach to a common garden hose for water supply. Provide safe, accurate mixing; eliminate contact with concentrated chemicals and reduce chemical waste.

RTD—Set flow lever to fill buckets or bottles.

RTD Spray—Have an adjustable fan spray with high and low settings, ergonomic trigger for one-handed operation, and a hanging bracket.

DILUTION CONTROL ACCESSORIES

For use with all RTD bottles.

Quick Connect—Female attachment connects RTD bottles and water source.

Wall-Mounted Holster—Holds two 1.5L or 5L bottles.

Water Supply Hose—5-ft. hose allows greater flexibility; can easily move from one water source to another.

Wire Baskets—Wall-mountable baskets provide more-permanent installation and allow hands-free operation.

Water Hose and Quick Connect Kit 4DU34

RTD All Purpose Cleaner 10C398

RTD Disinfectant Cleaner 11Y607

RTD Floor Care 20J849

RTD Spray Bathroom Cleaner 10C405

RTD Spray Drain Maintainer 46E794

Wall Mounted Holster 1DE90

Wire Basket for (2) 5L RTD Bottles 2ZHV5

Description	For Use With	Item No.
Dilution Control Dispensing System		
Water Hose and Quick Connect Kit	All Ready To Dispense (RTD) Bottles	4DU34

Product Label	Chemical Series	Label Color Coding	Label Number	Container Size	Fragrance	Std.	Item No.	Pkg. Qty.
Dilution Control Chemicals—RTD Dispenser Series								
All Purpose Cleaners								
General Purpose Cleaner	Gp Forward	Green	8	1.5 L	Citrus	CFIA	**10C419**	2
General Purpose Cleaner	PERdiem	Blue	58	5 L	Unscented	CFIA	**11Y611**	1
General Purpose Cleaner	Gp Forward		8	5 L	Unscented	—	**11Y666**	1
Multi-Surface Cleaner	Alpha-HP	Green	52	1.5 L	Citrus	Green Seal, Greenguard	**20J838**	2
Multi-Surface Cleaner	Alpha-HP		52	5 L	Citrus	Green Seal, Greenguard	**20J839**	1
Neutral Cleaner	Stride	Orange	3	5 L	Citrus	Green Seal, Greenguard, Kosher, NSF Rated	**10C398**	1
Bathroom Cleaners								
Bathroom Cleaner	Crew	Blue	42	1.5 L	Fresh	EPA Registered	**11Y676**	2
Bathroom Cleaner	Crew		44	1.5 L	Unscented	EcoLogo, Green Seal	**10C401**	2
Shower Cleaner	Crew	Purple	9	1.5 L	Apple	TSCA	**11Y683**	2
Degreasers								
Heavy Duty Cleaner Degreaser	Speedball	Blue	32	1.5 L	Citrus	NSF Rated	**46E779**	2
Natural Solvent Cleaner	Spitfire	Red	21	1.5 L	Pine	CFIA, Kosher, NSF Rated	**46E777**	2
Solvent Cleaner	Spitfire		21	1.5 L	Pine	CFIA, Kosher, NSF Rated	**46E778**	1
Solvent Degreaser	Suma	Blue	D2.4	5 L	Unscented	CFIA, Halal, Kosher	**33X333**	1
Deodorizers								
Fabric Freshener	Good Sense	Green	03	1.5 L	Fresh	TSCA	**46E787**	2
Odor Eliminator	Good Sense	Blue	7	1.5 L	Fresh	TSCA	**11Y688**	2
Dishwashing Detergents								
Pot and Pan Cleaner	Suma	Blue	D1.5	5 L	Floral	CFIA, Kosher	**2GVN4**	1
Pre-Soak Detergent	Suma	Brown	K20	5 L	Unscented	CFIA, Halal, Kosher, NSF Rated	**29RJ08**	1
Disinfectant Cleaners								
Cleaner and Disinfectant	Oxivir	Purple	57	1.5 L	Unscented	EPA Registered	**11Y607**	2
Cleaner and Disinfectant	Virex	Blue	5	5 L	Minty	EPA Registered	**11Y654**	1
Cleaner and Disinfectant	Triad	Green	6	5 L	Minty	EPA Registered	**11Y655**	1
Multi-Surface Disinfectant Cleaner	Alpha-HP		67	1.5 L	Citrus	EPA Registered	**35Z912**	2
Multi-Surface Disinfectant Cleaner	Alpha-HP		67	5 L	Citrus	EPA Registered	**35Z913**	1
Neutral Disinfectant Cleaner	Morning Mist		33	5 L	Fresh	EPA Registered	**10C404**	1
One Step Deodorizing Cleaner and Disinfectant	Virex	Blue	5	1.5 L	Minty	EPA Registered	**10C402**	2
Floor Care								
Carpet Extraction Rinse	Diversey	Blue	27	1.5 L	Fruity	WoolSafe	**46E770**	2
Floor Cleaner	UHS	Green	4	5 L	Ammonia	—	**11Y644**	1
Floor Cleaner	Prominence	Yellow	66	5 L	Citrus	Green Seal, Greenguard	**11Y605**	1
Floor Maintainer	Revive	Red	51	5 L	Citrus	—	**11Y646**	1
Floor Stripper	Pro Strip		—	5 L	Unscented	Green Seal GS-40	**20J849**	1
Heavy Duty Prespray Plus	No Series	Green	C9	1.5 L	Floral	—	**11Y650**	2
Glass Cleaners								
Glass and Multi-Surface Cleaner	Glance HC	Blue	1	1.5 L	Unscented	TSCA	**38M488**	2
Glass and Multi-Surface Cleaner	Glance HC		1	5 L	Unscented	TSCA	**38M489**	1
Sanitizer								
Sanitizer	Final Step	Red	D4	5 L	Unscented	EPA Registered	**46E793**	1
Dilution Control Chemicals—RTD Spray Dispenser Series								
All Purpose Cleaner								
Neutral All Purpose Cleaner	PERdiem	Blue	58	1.5 L	Unscented	CFIA	**32GP35**	2
Bathroom Cleaners								
Bathroom Cleaner	Crew	Blue	42	1.5 L	Fresh	EPA Registered	**11Y675**	2
Shower, Tub, and Tile Cleaner	Crew	Purple	9	1.5 L	Fresh	EPA Registered	**10C405**	2
Degreaser, Deodorizer								
Degreaser	Suma	Yellow	D2.3	1.5 L	Unscented	Kosher, NSF Rated	**32GP57**	2
Disinfectant Cleaner								
Neutral Disinfectant Cleaner	Morning Mist	Green	33	1.5 L	Fresh	EPA Registered	**10C403**	2
Drain Maintainers								
Foaming Drain Maintainer	Suma	Green	D3.1	1.5 L	Citrus	NSF Rated	**33X334**	2
Foaming Drain Maintainer	Suma		D3.1	5 L	Chlorine	NSF Rated	**46E794**	1

Description	Item No.
Dilution Control Accessories	
Quick Connect	**4DU35**
Wall-Mounted Holster—15½ in H x 21¾ in W x 7 in D	**1DE90**
Water Supply Hose—5 ft L	**4DU36**
Wire Basket for (2) 1.5 L RTD Bottles	**2ZHV4**
Wire Basket for (2) 5 L RTD Bottles	**2ZHV5**

Twist 'n Fill Dispenser 2U692

All Purpose Cleaner 2U674

3M Glass Cleaner Preprinted 1 L Bottle with Sprayer 2AV87

3M

Twist 'N Fill Dilution Control System

DISPENSER

Features a pressure-relief fitting that dilutes chemical concentrates with water to accurately and safely dispense cleaning products. Air gap prevents chemical backflow into water supply.

WIRE SHELF

Provides neat storage and easy accessibility of chemicals.

DILUTION CONTROL CHEMICALS

Choose a concentrate, insert the bottle into the dispenser, twist, and fill bottles and buckets with the appropriate solution strength for cleaning.

PREPRINTED BOTTLES

Dispense mixed cleaning chemicals into labeled white bottles and sprayers. Pkg. of 12.

Description	No. of Chemicals Dispensed	Dispenser Fills	Item No.
Dilution Control Dispenser and Shelf			
Wall Mount			
Twist 'n Fill Dispenser	1	Bottles, Buckets	**2U692**
Wire Shelf for (4) 2 L Bottles			**2BV53**

Imprinting	Container Cap.	Item No.
Dilution Control Preprinted Bottles with Spout—Stream		
3M Bathroom Disinfectant Cleaner Concentrate 4	32 oz	**1GH05**
Dilution Control Preprinted Bottles with Sprayer—Mist, Stream		
3M Bathroom Disinfectant Cleaner Concentrate 4	4 L	**1HH98**
3M General Purpose Cleaner 8	32 oz	**1GH06**
3M Glass Cleaner 1	1 L	**2AV87**
3M Heavy Duty Multi-Surface Cleaner 2	2 L	**1HH99**
3M Quat Disinfectant Cleaner Concentrate 5	5 L	**1HH97**

Product Label	Label Color Coding	Label Number*	Fragrance	Std.	Item No.	Item No. Secondary Labels, Pkg. of 12
Dilution Control Chemicals, 2 L						
All Purpose Cleaners						
General Purpose Cleaner	Red	8L	Citrus	EPA Registered, Green Seal, OSHA	**2U682**	**1CJ90**
General Purpose Cleaner	Red	8H	Citrus		**2U683**	**1CJ90**
Multi-Surface Cleaner	Purple	2L	Citrus	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**2U674**	**1CJ95**
Peroxide Cleaner	Red	34L	Unscented	EPA Registered, Green Seal, OSHA	**28AD47**	—
Peroxide Cleaner	Red	34H	Unscented		**35YY75**	—
Bathroom Cleaners						
Bath and Shower Cleaner	Blue	51L	Unscented	EPA Registered, OSHA	**35YY77**	**5YR53**
Bathroom Cleaner	Teal	44L	Floral	EPA Registered, Green Seal, OSHA	**3GZX2**	**1CJ88**
Bathroom Disinfectant	Teal	4L	Floral	FIFRA	**2U676**	**1CJ94**
Non-Acid Bathroom Cleaner	Green	19L	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**4HN93**	—
Non-Acid Disinfectant Bathroom Cleaner	Green	15L	Fresh	FIFRA	**3VC57**	**2FP45**
Tile, Grout and Bowl Cleaner	Yellow	52L	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**5YL88**	**4GY93**
Degreasers						
Food Service Degreaser	Orange	7L	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**4MH69**	**4YJ26**
Food Service Degreaser	Orange	7H	Unscented		**4MH68**	**4YJ25**
Industrial Degreaser	Purple	26L	Unscented		**3HB92**	**2FP44**
Industrial Degreaser	Purple	26H	Unscented		**3HB91**	**2FP43**
Deodorizers						
Deodorizer	Blue	13L	Fresh	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**2BW61**	**5YR48**
Deodorizer	Orange	14L	Mountain Spice		**2BW60**	**5YR48**
Deodorizer	Pink	12L	Country Garden		**2BW59**	**1CJ97**
Disinfectant Cleaners						
Cleaner and Disinfectant	Yellow	40L	Unscented	FIFRA	**35YY74**	—
HB Quat Disinfecting Cleaner	Brown	25L	Unscented		**5YL84**	**3RA85**
HB Quat Disinfecting Cleaner	Brown	25H	Unscented		**5YL83**	**3RA85**
Neutral Quat Disinfecting Cleaner	Green	23L	Lemon		**5YL86**	**4GY92**
Neutral Quat Disinfecting Cleaner	Green	23H	Lemon		**4WK25**	**4YJ26**
Quat Disinfecting Cleaner	Green	5L	Pleasant		**4HN94**	**4MJ01**
Quat Disinfecting Cleaner	Green	5H	Pleasant		**4HN95**	—
Floor Care						
Bonnet Cleaner	Green	11L	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**5ND37**	**5YR50**
Extraction Cleaner	Gray	27H	Honeysuckle	CRI Seal of Approval, EPA Registered, OSHA	**4DE37**	—
Floor Cleaner	Blue	24H	Citrus	EPA Registered, Green Seal, OSHA	**4WK26**	**4YJ27**
Floor Speed Stripper	Blue	6H	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**2U679**	**1CJ92**
Floor Stripper	Green	22H	Unscented		**4WK27**	**5YR50**
Neutral Floor Cleaner	Green	3L	Fresh	EPA Registered, Green Seal, OSHA	**28AD44**	—
Neutral Floor Cleaner	Green	3H	Fresh		**2U675**	**1CJ94**
Neutral Floor Cleaner	Yellow	33H	Unscented		**3GZX1**	**1CJ88**
Pretreatment Cleaner	Purple	28H	Unscented	CRI Seal of Approval, EPA Registered, OSHA	**4DE38**	**3XH40**
Glass Cleaners						
Glass Cleaner	Blue	1L	Apple	EPA Registered, Green Seal, OSHA	**4EB95**	—
Glass Cleaner and Protector	Blue	17L	Apple		**20AT45**	—
Heavy Duty Glass Cleaner	Blue	20L	Floral	EPA Registered, OSHA	**28AD45**	—
Sanitizer						
Sanitizer	Gray	16L	Unscented	FIFRA	**2BW55**	**1CJ98**

** L = Low flow for bottle filling. H = High flow for bucket filling.*

3M

Flow Control Dilution Control Systems

Dispensers minimize worker interaction with chemicals by delivering accurately diluted cleaning solutions directly into containers.

Portable Water Hose and Quick Connect Kit—Reusable, movable kit brings highly accurate dilutions to on-the-go convenience.

Wall-Mount Dispenser—Uses simple two-dial dispensing, and includes a three-point locking system to limit chemical exposure and help prevent theft. Small cabinet size fits compact spaces.

Dilution Control Chemicals—Feature numbered and color-coded labels for easy identification.

Portable Dispenser 39CZ43

Wall Mount Dispenser 39CZ47

All Purpose Cleaner 39CZ50

Description	No. of Chemicals Dispensed	Dispenser Fills	Item No.
Dilution Control Dispensers			
Portable Water Hose and Quick Connect Kit	1	Bottles	**39CZ43**
Wall-Mount Dispenser	4	Bottles, Buckets	**39CZ47**

Product Label	Label Color Coding	Label Number	Fragrance	Std.	Item No.
Dilution Control Chemicals, 0.5 gal					
All Purpose Cleaners					
General Purpose Cleaner	Red	8A	Citrus	EPA Registered, Green Seal, OSHA	**39CZ55**
Heavy Duty Multi Surface Cleaner	Purple	2A	Citrus	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**39CZ50**
Neutral Cleaner	Green	3A	Fresh	EPA Registered, Green Seal, OSHA	**39CZ51**
Peroxide Cleaner	Red	34A	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**39CZ64**
Bathroom Cleaners					
Disinfectant Bathroom Cleaner	Teal	4A	Baby Powder	FIFRA	**39CZ52**
Non-Acid Bathroom Disinfectant Cleaner	Green	15A	Fresh		**39CZ57**
Degreasers					
Food Service Degreaser	Orange	7A	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**39CZ54**
Industrial Degreaser	Purple	26A	Unscented		**39CZ63**
Deodorizer					
Deodorizer	Blue	13A	Fresh	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**39CZ56**
Disinfectant Cleaners					
Disinfectant Cleaner RCT	Yellow	40A	Unscented	FIFRA	**39CZ65**
HB Quat Disinfecting Cleaner	Brown	25A	Unscented		**39CZ62**
Floor Care					
Floor Stipper LO	Green	22A	Unscented	CFR 1910.1200, EPA Registered, OSHA	**39CZ60**
Portion Control Floor Cleaner	Blue	24A	Citrus	EPA Registered, Green Seal, OSHA	**39CZ61**
Speed Stripper	Blue	6A	Unscented	OSHA Hazard Communications Standard, Safety Data Sheets, EPA and 29 CFR 1910.1200	**39CZ53**
Glass Cleaners					
Glass Cleaner	Blue	1A	Unscented	EPA Registered, Green Seal, OSHA	**39CZ49**
Glass Cleaner and Protector	Blue	17A	Apple		**39CZ59**
Sanitizer					
Sanitizer	Gray	16A	Unscented	FIFRA	**39CZ58**

pH Value Information

Neutral falls between 5 and 9 on the pH scale. These daily cleaners remove light soil or small particles from surfaces.

Alkaline falls between 9 and 14 on the pH scale. General purpose cleaners (9-11 pH) remove oils, particulates, fats, and proteins. Heavy-duty degreasers (13-14 pH) remove heavy grease and oil.

Acidic falls between 0 and 5 on the pH scale. These cleaners remove soils caused by mineral deposits and organic matter including hard water marks, rust stains, soap scum, lime, grease, and proteins.

Multi-Surface Floor Cleaners & Maintainers

Floor cleaners remove everyday dirt, grime, and scuff marks.

Floor maintainers extend the life of floors between finishes without dulling the gloss. They repair or fill in microscopic scratches and scuffs and eliminate the need for frequent stripping and refinishing of floor surfaces.

48FY27

494T30

444N59

2ZHT1

33NU14

24L286

2NDT1

3U569

10C421

pH Value	Container Type	Container Size	For Floor Type	Properties	Brand	Item No.	Pkg. Qty.
Floor Cleaners							
Ready to Use Granules							
Neutral	Bucket	40 lb	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Low Foam, Nonflammable	Best Sanitizers, Inc.	**48FY27**	1
Ready to Use Liquid							
Neutral	Bottle	1.25 L	Ceramic, Concrete, Laminate, Linoleum, Terrazzo, Vinyl, Wood	Low Foam, No Rinse Required, Nonflammable	Swiffer	**494T30**	4
Neutral	Bottle	64 oz	Ceramic, Linoleum, Marble, Vinyl, Wood	Nonflammable	Mop & Glo	**24L288**	6
Neutral	Jug	1 gal	Ceramic, Concrete, Linoleum, Marble, Slate, Terrazzo, Vinyl	—	Bona	**61HL13**	4
Concentrated Liquid							
Neutral	Portion Measuring Bottle	32 oz	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Low Foam, No Rinse Required, Nonflammable	Diversey	**11Y660**	1
Neutral	Jug	1 gal		Biodegradable, Nonflammable	Zep	**449W25**	4
Neutral	Jug	1 gal		Low Foam, No Rinse Required, Nonflammable	Diversey	**10F941**	1
Neutral	Jug	1 gal	Concrete, Linoleum, Rubber, Wood, Slate, Terrazzo, Vinyl	Biodegradable, Low Foam	Tough Guy	**444N59**	1
Neutral	Jug	1 gal	Marble, Rubber	Nonflammable	Diversey	**2ZHT1**	1
Neutral	Box	5 gal	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Low Foam, No Rinse Required, Nonflammable	Diversey	**10F942**	1
Neutral	Bucket	5 gal	Concrete, Linoleum, Rubber, Wood, Slate, Terrazzo, Vinyl	Biodegradable, Low Foam	Tough Guy	**444N61**	1
Alkaline	Jug	1 gal	Asphalt, Ceramic, Wood, Laminate, Linoleum, Rubber, Terrazzo, Vinyl	Low Foam, No Rinse Required, Nonflammable	Mr. Clean	**33NU14**	4
Alkaline	Jug	1 gal	Concrete, Linoleum, Rubber, Wood, Slate, Terrazzo, Vinyl	Biodegradable, Low Foam	Tough Guy	**36XX45**	1
Alkaline	Jug	1 gal	Ceramic, Concrete, Laminate, Linoleum, Terrazzo, Vinyl	Low Foam, No Rinse Required, Nonflammable	Mr. Clean	**24L286**	3
Acidic	Jug	1 gal	Rubber	—	Zep	**54ZM53**	4
Concentrated Powder							
Alkaline	Packet	2.2 oz	Ceramic, Concrete, Laminate, Linoleum, Terrazzo, Vinyl	Low Foam, No Rinse Required, Nonflammable	Spic and Span	**2NDT1**	45
Concentrated Powder Packets							
Neutral	Bucket	90 ct	Asphalt, Ceramic, Concrete, Marble, Slate, Terrazzo, Vinyl	No Rinse Required, Nonflammable	Diversey	**3U569**	2
Floor Maintainers							
Ready to Use Granules							
Alkaline	Drum	100 lb	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Low Foam, Nonflammable	Best Sanitizers, Inc.	**19RC80**	1
Ready to Use Liquid							
Neutral	Jug	1 gal	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Nonflammable	Diversey	**10C421**	1
Alkaline	Jug	2.5 gal	Linoleum, Rubber, Vinyl		Scotchgard	**60RA51**	2
Concentrated Liquid							
Neutral	Portion Measuring Bottle	32 oz	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	Nonflammable	Diversey	**46E803**	6
Neutral	Jug	1 gal	Concrete, Linoleum, Rubber, Wood, Slate, Terrazzo, Vinyl	Biodegradable, Low Foam	Tough Guy	**49NW24**	1
Concentrated Powder							
Alkaline	Drum	125 lb	Brick, Ceramic, Concrete, Slate	Biodegradable	Zep	**449V82**	1

Wood Floor Cleaners & Maintainer

61HL12 and 55EC37 are portion measuring jugs.

61HL14

55EC37

39FD44

pH Value	Container Type	Container Size	Properties	Brand	Item No.	Pkg. Qty.
Floor Cleaners						
Ready to Use Liquid						
Neutral	Trigger Spray Bottle	32 oz	—	Bona	**61HL14**	4
Neutral	Cartridge	34 oz	Low Foam, Nonflammable	Bona	**420D29**	1
Neutral	Jug	1 gal	—	Bona	**61HL10**	4
Neutral	Bucket	5 gal	Nonflammable	Diversey	**32GR24**	1
Concentrated Liquid						
Neutral	Jug	1 gal	—	Bona	**61HL12**	4
Neutral	Jug	1 gal	Nonflammable	Bona	**55EC37**	4
Floor Maintainer						
Concentrated Liquid						
Alkaline	Bottle	24 oz	No Rinse Required	Scotts Liquid Gold	**39FD44**	1

Concrete Floor Cleaners

Remove oil, grease, and grime.

Concentrated powder changes color when wet to indicate performance and rinses easily.

3ANW6

451A37

pH Value	Container Type	Container Size	Properties	Brand	Item No.
Concentrated Liquid					
Alkaline	Jug	1 gal	Nonflammable	Simple Green	**3ANW6**
Alkaline	Drum	55 gal	—	Zep	**449V78**
Concentrated Powder					
—	Bucket	40 lb	Biodegradable, Nonflammable	Zep	**451A37**
—	Drum	500 lb		Zep	**54ZK08**

Combination Floor Cleaners & Maintainers

Clean and shine floors in one step. They remove dirt and grime and add a finish to floors in high-traffic areas. 60RA49 is a portion measuring bottle.

2ZHT2

60RA49

pH Value	Container Type	Container Size	For Floor Type	Properties	Brand	Item No.
Concentrated Liquid						
Neutral	Jug	1 gal	Asphalt, Concrete, Linoleum, Marble, Rubber, Slate	Nonflammable	Diversey	**2ZHT2**
Alkaline	Jug	2.5 gal	—	Low Foam	3M	**60RA48**
Alkaline	Bottle	32 oz			3M	**60RA49**
Alkaline	Box	5 gal	Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Terrazzo, Travertine, Vinyl, Wood	Nonflammable	Diversey	**32GN10**

10F949

6CTR5

11Y629

10F954

4WYJ4

10A329

10F957

444N54

Floor Finishes and Sealers

All finishes and sealers (except 48TH96) have a high gloss finish type.

Finishes protect and restore floors with a scuff-resistant coating. They cover sealed floor surfaces and are designed for use with high-speed buffing and burnishing machines.

Sealers provide the base coat for floor finishes. They fill uneven and porous surfaces and create a semi-permanent layer with high chemical resistance.

Combination floor finishes and sealers work in one convenient step. Combine a sealing layer with a protective finish coat to save time and money.

Container Type	Container Size	For Floor Type	Min. Req. Brush Speed	Max. Req. Brush Speed	Max. Drying Time	Properties	Brand	Item No.	Pkg. Qty.
Floor Finishes									
Ready to Use Liquid									
Jug	1 gal	Asphalt, Rubber, Terrazzo, Vinyl	1,500 RPM	1,500 RPM	30 min	—	Zep	451F37	4
Jug	1 gal	Ceramic, Vinyl, Rubber	175 RPM	1,500 RPM	30 min	Nonflammable	Diversey	10F949	1
Jug	1 gal	Concrete, Linoleum, Slate, Terrazzo	150 RPM	1,500 RPM	30 min	Low Foam, No Rinse Required, Nonflammable	Tough Guy	444N49	1
Jug	2.5 gal		175 RPM	300 RPM	30 min		Tough Guy	36XX48	1
Jug	2.5 gal	Vinyl, Terrazzo	1,500 RPM	3,000 RPM	1 hr	Low Foam, Nonflammable	Scotchgard	4WK33	2
Bag	84.5 oz	Ceramic, Vinyl, Rubber, Stone	1,500 RPM	—	45 min	Nonflammable	Diversey	11Y628	6
Bag	84.5 oz	Rubber	175 RPM	1,500 RPM	30 min		Diversey	11Y623	6
Bag	1 gal	Asphalt, Brick, Ceramic, Concrete, Granite, Laminate, Linoleum, Marble, Porcelain, Rubber, Slate, Terrazzo, Travertine, Vinyl, Wood	—	—	30 min		Diversey	48TH96	4
Bag	1 gal	Concrete, Marble, Terrazzo	—	—	1 hr	Low Foam, Nonflammable	3M	6CTR5	2
Box	5 gal	Brick, Granite, Marble, Slate, Terrazzo, Ceramic	175 RPM	—	45 min	Nonflammable	Diversey	11Y631	1
Box	5 gal	Ceramic, Vinyl, Rubber	175 RPM	1,500 RPM	30 min		Diversey	10F950	1
Box	5 gal		175 RPM	1,500 RPM	40 min		Diversey	11Y616	1
Box	5 gal		175 RPM	1,500 RPM	50 min		Diversey	10F952	1
Box	5 gal		1,500 RPM	—	40 min		Diversey	10F953	1
Box	5 gal	Ceramic, Vinyl, Rubber, Stone	1,500 RPM	—	45 min		Diversey	11Y629	1
Box	5 gal	Concrete, Vinyl, Terrazzo	1,500 RPM	—	45 min		Diversey	11Y627	1
Box	5 gal	Rubber	175 RPM	1,500 RPM	30 min		Diversey	11Y622	1
Bucket	5 gal	Asphalt	175 RPM	1,500 RPM	45 min		Diversey	10F954	1
Bucket	5 gal	Asphalt, Rubber, Concrete, Terrazzo, Vinyl	200 RPM	200 RPM	30 min	—	Zep	451F24	1
Bucket	5 gal	Concrete, Linoleum, Slate, Terrazzo	150 RPM	1,500 RPM	30 min	Low Foam, No Rinse Required, Nonflammable	Tough Guy	444N50	1
Concentrated Liquid									
Bucket	5 gal	Wood	—	—	3 hr	Low Foam, Nonflammable	Bona	4WYJ4	1
High Solids (High Gloss) Floor Finishes									
Ready to Use Liquid									
Box	5 gal	Ceramic, Vinyl, Rubber	175 RPM	1,500 RPM	30 min	Nonflammable	Diversey	10A329	1
Bucket	5 gal	Concrete, Linoleum, Slate, Terrazzo	1,500 RPM	3,000 RPM	30 min	Low Foam, No Rinse Required, Nonflammable	Tough Guy	444N48	1
Floor Sealers									
Ready to Use Liquid									
Jug	1 gal	Asphalt, Rubber, Concrete, Terrazzo, Vinyl	200 RPM	200 RPM	30 min	Nonflammable	Zep	451D82	4
Jug	2.5 gal	Brick, Ceramic, Concrete, Terrazzo	175 RPM	3,000 RPM	1 hr	Low Foam, Nonflammable	3M	5ND33	2
Box	5 gal	Linoleum	1,500 RPM	—	30 min	Nonflammable	Diversey	10F957	1
Bucket	5 gal	Asphalt, Rubber, Terrazzo, Vinyl	200 RPM	200 RPM	30 min		Zep	451F44	1
Combination Floor Finishes & Sealers									
Ready to Use Liquid									
Jug	1 gal	Concrete, Linoleum, Slate, Terrazzo	—	—	30 min	Low Foam, No Rinse Required, Nonflammable	Tough Guy	444N53	1
Bucket	5 gal		—	—	30 min		Tough Guy	444N54	1

3U142

20J852

10C425

444N58

Floor Strippers

Concentrated liquid strippers dissolve and remove buildup caused by multiple layers of floor finishes and sealers. Buildup may cause discoloring over time, and any dirt and dust embedded in the floor coatings become harder to remove with mopping alone.

Container Type	Container Size	For Floor Type	Properties	Product Series	Brand	Item No.
Jug	1 gal	Concrete, Terrazzo, Vinyl	Butyl Free	Pro Strip	Diversey	10C422
Jug	1 gal	Concrete, Linoleum, Slate, Terrazzo, Vinyl	Biodegradable, Butyl Free	—	Tough Guy	36MF98
Jug	1 gal	Concrete, Slate, Terrazzo, Vinyl	Butyl Free	—	Tough Guy	444N57
Jug	1 gal	Concrete, Terrazzo, Vinyl	—	Bravo	Diversey	10C424
Jug	2.5 gal	Concrete, Slate, Terrazzo, Vinyl	Biodegradable	—	Tough Guy	36XX51
Jug	2.5 gal	Concrete, Linoleum, Marble, Terrazzo, Vinyl	Nonflammable	—	3M	3U142
Box	5 gal	Concrete, Terrazzo, Vinyl	Butyl Free	Pro Strip	Diversey	10C423
Box	5 gal			Pro Strip Pure	Diversey	20J850
Box	5 gal			Pro Strip Ultra	Diversey	20J852
Box	5 gal		—	Bravo	Diversey	10C425
Box	5 gal			Bravo 1500+	Diversey	20J853
Bucket	5 gal	Asphalt, Ceramic, Rubber, Terrazzo, Vinyl		—	Zep	54ZK29
Bucket	5 gal	Concrete, Slate, Terrazzo, Vinyl	Butyl Free	—	Tough Guy	444N58
Bucket	5 gal	Porcelain	—	Strip-Ease	Zep	451D98
Drum	55 gal	Ceramic, Concrete, Terrazzo	Biodegradable	Formula 22	Zep	449V50

3U123

10F958

4WH66

Baseboard Strippers

Ready-to-use strippers simplify the removal of buildup from baseboards, edges, and spot buildups by clinging to vertical surfaces for maximum dwell time. These strippers are also useful in stairwells and floor areas too small for scrubbing machines.

Container Type	Container Size	Cleaner Form	For Floor Type	Properties	Product Series	Brand	Item No.
Aerosol Spray Can	18 oz	Foam	Linoleum, Porcelain, Wood	Biodegradable	X-Wax	Misty	36P141
	20 oz	Gel	Porcelain, Vinyl, Wood	Nonflammable	—	Tough Guy	2DCA6
	20 oz	Liquid	—		—	Tough Guy	6PEC3
	21 oz	Liquid	Concrete, Marbe, Terrazzo, Vinyl, Wood	—	Trouble Shooter	3M	3U123
	23 oz	Liquid	Concrete, Terrazzo, Vinyl		Bravo	Diversey	10F958
Bottle	1 qt	Liquid	Concrete, Marble, Terrazzo, Vinyl, Wood	Nonflammable	Trouble Shooter	3M	4WH66

Trigger Sprayers

- 28/400 closure size
- Polypropylene seals

Attach to compatible spray bottles for dispensing the bottle contents. Trigger sprayers have an adjustable nozzle and a squeeze-pump handle for applying cleaners, disinfectants, degreasers, and other liquids. 2ZWN7 sprays upside down. 22N549 offers an extended reach.

Dispensing Type	Dip Tube Length	Sprayer Color	Brand	Item No.
Foam	9 ½ in	White	Tough Guy	**3U603**
Mist, Stream	7 ½ in	Gray	Tough Guy	**1CH73**
Mist, Stream	9 ¼ in	Blue	Tough Guy	**4TH69**
Mist, Stream	9 ¼ in	White	Tough Guy	**2ZWN7**
Mist, Stream	9 ½ in	Red	Tough Guy	**3U594**
Mist, Stream	9 ½ in	Gray	Tolco	**1CH72**
Mist, Stream	9 ½ in	Gold/Black	Tough Guy	**38C407**
Mist, Stream	36 in	Green	Tough Guy	**22N549**

4TH69 **3U594** **22N549 (Jug not Included)**

Bottles with Trigger Sprayer

Spray bottles with trigger sprayers apply cleaners, degreasers, disinfectants, and other liquids in offices, restaurants, and health care facilities. These empty bottles are typically filled from bulk containers and used for small jobs, such as cleaning glass or countertops.

Dual spray bottles allow you to use all the product in the containers and reduce hand fatigue by providing a continual spray at every angle, including upside down.

Container Capacity	Dispensing Type	Bottle Color	Sprayer Color	Imprinting	Graduation Markings	Brand	Item No.	Pkg. Qty.
Dual Spray Bottle								
0.5 L	Stream	Blue/White	Blue	No Imprinting	Yes	Tough Guy	**35WT50**	1
0.5 L	Stream	Green/White	Green	No Imprinting	Yes	Tough Guy	**35WT51**	1
0.5 L	Stream	Yellow/White	Yellow	No Imprinting	Yes	Tough Guy	**35WT52**	1
0.5 L	Stream	Red/White	Red	No Imprinting	Yes	Tough Guy	**35WT53**	1
1 L	Stream	Blue/White	Blue	No Imprinting	Yes	Tough Guy	**35WT54**	1
1 L	Stream	Green/White	Green	No Imprinting	Yes	Tough Guy	**35WT55**	1
1 L	Stream	Yellow/White	Yellow	No Imprinting	Yes	Tough Guy	**35WT56**	1
1 L	Stream	Red/White	Red	No Imprinting	Yes	Tough Guy	**35WT57**	1
Trigger Spray Bottle								
8 oz	Mist, Stream	White	White	No Imprinting	No	Tough Guy	**20WU24**	12
16 oz	Stream	Clear	White	No Imprinting	Yes	Impact	**39FC97**	1
24 oz	Mist, Stream	White	White	Tough Guy 2ZWN8	Yes	Tough Guy	**2ZWN8**	12
32 oz	Stream	Clear	Red	No Imprinting	Yes	Impact	**30GE89**	3
36 oz	Mist, Stream	Clear	Black	No Imprinting	Yes	Tough Guy	**20WU23**	12
36 oz	Mist, Stream	White	Gray	No Imprinting	Yes	Tough Guy	**22N548**	12
Unger Sprayer On A Belt								
33 oz	Stream	Clear	White	Unger	Yes	Unger	**2RNA7**	1

35WT50 **2ZWN8** **30GE89** **2RNA7**

Bottles without Sprayer

Empty bottles without a trigger sprayer or cap replace broken spray bottles. Customize by pouring bulk liquids into these smaller bottles and adding a compatible trigger sprayer.

Container Capacity	Bottle Color	Closure Size	Graduation Markings	Imprinting	Brand	Item No.
16 oz	White	28/400	Yes	No Imprinting	Impact	**39FC96**
22 oz	White	28/400	Yes	No Imprinting	Impact	**39FD02**
24 oz	White	28/400	Yes	No Imprinting	—	**3LFD6**
24 oz	White	28/400	Yes	Tough Guy 3U592	Tough Guy	**3U592**
32 oz	White	28/400	Yes	Tough Guy 3U593	Tough Guy	**3U593**
1 gal	Clear	38/400	No	Alpet D2 Surface Sanitizer	Best Sanitizers, Inc.	**36P195**

39FD02 **3U592** **36P195**

Hand-Pump Compressed Air Bottles with Sprayer

These sprayers pressurize water, cleaning agents, pesticides, and other liquids to dispense them. Fill bottles from bulk containers for smaller jobs. Commonly used to apply cleaners, degreasers, disinfectants, and other liquids throughout office buildings, healthcare facilities, and outdoor grounds/landscaping.

Container Capacity	Dispensing Type	Bottle Color	Sprayer Color	Imprinting	Brand	Item No.
1 L	Mist, Stream	White	Blue	No Imprinting	Tough Guy	**35WT58**
1.5 L	Mist, Stream	Blue/White	Blue	No Imprinting	Tough Guy	**35WT59**
51 oz	Mist, Stream	White	Black	Full Function Power Sprayer	Tolco	**1LXH3**
51 oz	Foam	White	Gray/Black/White	Heavy Duty Commercial Foamer Sprayer	—	**3LFU6**
51 oz	Mist, Stream	White	Gray/Black	Professional Heavy Duty Sprayer Spray Mist	Tough Guy	**4YJ23**

35WT59 **4YJ23**

Cleaning Supplies Holders

Carry Tote—Holds and transports quart bottles and other small cleaning items. Durable plastic construction with hand grip.

34 in Organizer/Tool Holder—Features 3 S-hooks, 2 double hooks, 1 message clip, and 1 carry sling for electrical cord.

28 in Organizer/Tool Holder—Offers 6 holders with rubber grips for tools or handles.

Rim Caddy—BRUTE® rim caddy snaps securely onto the rim of BRUTE 44-gal. trash cans and features storage compartments and hooks, plus smooth surfaces for easy cleaning.

Caddy Bag—The BRUTE® trash can caddy bag fits 32- or 44-gal. BRUTE containers. Large elastic pockets are designed to hold cans, bottles, tools, cleaning utensils, and other accessories. Adjustable buckles.

Vented Dispensing Container—Extended faucet helps fill bottles and other containers without spilling. Molded graduations.

Dispensing Rack and Wire Basket—Rack organizes liquids and snaps together without nuts, bolts, or screws. Stores up to 20 gal. of liquid plus supplies. Has 11" extension legs to easily accept 5-gal. dispensing containers. Wire basket, sold separately, conveniently stores spray bottles on plastic shelving.

2NXW4 **4W307** **4CY23** **1CG18** **3U595**

Description	H	W	L	Brand	Item No.
Carry Tote	4 ⅝ in	10 ⅝ in	15 ⅞ in	Tough Guy	**2NXW4**
34 in Organizer/Tool Holder	3 ¼ in	½ in	34 in	Rubbermaid	**4W307**
28 in Organizer/Tool Holder	2 in	3 ¼ in	28 in	Unger	**24K359**
Round Rim Caddy	6 ¾ in	26 ½ in	32 ½ in	Rubbermaid	**4CY23**
Caddy Bag for Round or Square Trash Cans	20 ½ in	23 ½ in	20 in	Rubbermaid	**1CG18**
5-Gallon Durable Vented Dispensing Container	—	—	—	Tough Guy	**3U595**
Dispensing Rack	48 in	14⅜"13 in	15 in	Tough Guy	**3U596**
Wire Basket	4 in	12 in	4 in	Tough Guy	**3U598**

General Purpose Cart 5M880

HYGEN Microfiber Cart with Charging Bucket 6JHV1

High-Security Microfiber Cart 1PBJ9

Janitorial Cleaning Carts

- Swivel casters are nonmarking

GENERAL PURPOSE CARTS

Space-saving carts accommodate common cleaning items and waste collection.

HYGEN MICROFIBER MOPPING KIT WITH CHARGING BUCKET

Designed to help reduce cross-contamination when damp mopping in healthcare environments, and help improve dry time. Cleans up to 5000 sq. ft. Bucket is fully-loaded with microfiber pads.

HIGH-CAPACITY MODULAR

Provide 40% more storage than standard janitor carts, in the same footprint, with 30% larger, leak-proof, zippered, side-opening waste bags. Accommodate 32- to 55-gal. BRUTE containers. Securely hold WaveBrake Dual water mopping combos or microfiber mop bucket dollies. Include 2 bottle caddies and 5 rubber tool grip handle holders. Can be used with Microfiber Disinfecting Bucket 5NY73, sold separately on page 1534.

High-Security Microfiber, 1PBJ9

Locking doors and security hood open on both sides for quick, easy access. Includes waste cover.

JanSan Microfiber, 1PBJ8

Features 4 removable, color-coded pails, 4 nonmarking 4" swivel casters, and a folding front platform. Includes two 30-qt. storage bins and mop bucket attachment.

JanSan Microfiber, 1PBJ7 and JanSan 1PBJ6

Include folding front platform and mop bucket attachment.

Description	Trash Bag Cap.	Overall L	Overall W	Overall H	Color	No. of Shelves	Casters	Wheels	Item No.
General Purpose Carts									
Traditional Cleaning Cart	24 gal	46 in	21 ¾ in	38 ⅜ in	Blue	1	(2) 4 in	(2) 8 in	**9PVE1**
Traditional Cleaning Cart	24 gal	46 in	21 ¾ in	38 ⅜ in	Black	1	(2) 4 in	(2) 8 in	**5M880**
HYGEN Microfiber Mopping Kit with Charging Bucket									
Microfiber Janitor Cart With Charging Bucket Cart with 2 Mops, Safety Sign and Mesh Laundry Bag	34 gal	48 ¼ in	22 in	53 ½ in	Black	2	(2) 4 in	(2) 8 in	**6JHV1**
High-Capacity Modular Janitorial Carts									
High-Security Microfiber Cart	34 gal	48 ¼ in	22 in	53 ½ in	Black	1	(2) 4 in	(2) 8 in	**1PBJ9**
JanSan Microfiber Cart	34 gal	48 ¼ in	22 in	44 in	Black	1	(4) 4 in	8 in	**1PBJ8**
JanSan Microfiber Cart	34 gal	48 ¼ in	22 in	44 in	Black	1	(2) 4 in	(2) 8 in	**1PBJ7**
JanSan Cart	34 gal	49 ¾ in	22 19⁄64 in	44 ½ in	Black	1	(2) 4 in	(2) 8 in	**1PBJ6**
Accessories									
Locking Compartment for 5M880	—	20 in	16 in	11 ¼ in	Yellow	—	—	—	**4YJ55**
Replacement Bag for 5M880	—	17 ½ in	10 ½ in	30 ½ in	Yellow	—	—	—	**52VK78**

Full-Size 1RF35

High-Security 1LWP3

Structural Foam Housekeeping Carts

A complete system solution for cleaning high-profile areas.

FULL-SIZE

Carts with vinyl bags and convenient shelves can be used to service 13 to 16 rooms.

COMPACT FOLDING

Space-efficient cart can service 9 to 12 rooms and fold down for storage. Has 5 cu.-ft. of cabinet area which can be accessed through double-locking doors on both sides of cart. With vacuum holder, zippered fabric waste/linen bag, and removable 10-qt. sanitizing caddies.

HIGH-SECURITY

Ergonomic, lightweight cart with compact footprint. Only 22"W ideal for fitting in space-constrained areas. Locking security hood and doors secure supplies when cart is unattended. Includes vacuum holder, 2 zippered linen/waste bags, rubber tool grips and hooks, and large 7.5 cu.-ft. capacity.

Description	Overall L	Overall W	Overall H	Color	No. of Shelves	Casters	Wheels	Item No.
Housekeeping Carts								
Full-Size without Doors	60 in	22 in	50 in	Black	1	(2) 8 in	(2) 8 in	**1RF35**
Executive Full-Size Housekeeping Cart	61 ¾ in	23 ⅛ in	18 ⅝ in	Gray	2	(4) 8 in	—	**14J684**
Compact Steel Body with Powder-Coated/ Baked-On Finish	49 in	22 in	50 in	Black	—	—	—	**8VMF8**
High-Security	51 ¾ in	22 in	53 ½ in	Black	2	(2) 4 in	(2) 8 in	**1LWP3**
Accessories								
Replacement Vinyl Bag for 1RF35	17 ½ in	10 ½ in	33 in	Black	—	—	—	**49DR37**
9-Pouch Pocket Bag for 1LWP3	28 in	19 ½ in	1 ½ in	Black	—	—	—	**1LWP5**

Large Cart 39UL36

Executive Quick Carts

High-performance polyester carts feature pockets, large caddy, and main compartment that includes adjustable dividers. Convenient removable caddy and inner liner promote easy cleaning or replacement. All carts have (2) 4 in wheels, 1 shelf, 6 outer pockets (including 1 plastic-lined) and 6 inner pockets, except Small cart has 5 outer pockets. Replacement Liners and Caddies sold separately below.

Description	Overall L	Overall W	Overall H	CART Item No.	LINER Item No.	CADDY Item No.	PLASTIC POCKET LINER Item No.
Large—60 lb. cap., 3.55 sq.-ft. of total vol. cap.	22 in	15 in	24 ¾ in	**39UL36**	**39UL32**	**39UL34**	**39UL39**
Medium—40 lb. cap., 3.07 sq.-ft. of total vol. cap.	22 in	15 in	21 ¼ in	**39UL33**	**39UL35**	**39UL34**	**39UL39**
Small—30 lb. cap., 2.80 sq.-ft. of total vol. cap.	22 in	15 in	17 in	**39UL31**	**39UL37**	**39UL38**	**39UL39**

Safety Cone 2LEC6

Safety Cone—Collapsible 3UU66

Barricade System with Belts 2LEC8

Door Barricade Sign 2LEB6

Safety Cones, Systems, and Barricade Signs

All cones have a yellow background, except 6VKP6 is orange. Legend text is black for all cones and signs.

Safety Cones—Stack standard cones to reduce storage space. Collapsible cones compress and store in a tube mounted to the wall.

Safety Cone Systems—6VKT0 includes (2) 20 ft yellow plastic chains, (2) signs, (3) red flashing lights, (4) message labels, and (5) yellow cones. 2LEC8 includes (1) cone, (1) 20 lb weight ring, and (1) nylon barricade belt. 2 units are required to make complete system.

Accessories—2LED3 helps stabilize 36 in safety cones. Flashing Light requires one D battery, not included. 2LED2 snaps into the top of 36 in cones to hold standard rigid signs. 6VKT2 is injection-molded polypropylene for high-traffic indoor areas. 6GJA1 adhesive-mount, plastic labels are compatible with safety cones. Sign legends are: Slippery Wet Floor Please Walk To The Right, Slippery, Wet Floor Please Walk To The Left, Watch Your Step. Have as yellow background with black and red legend text.

Door Barricade Signs—2LEB6 telescopes 42 in to 72 in, and 6GJA0 telescopes 30 in to 44 in to close off areas to foot traffic. Double-locking design with adjustable torsion lock and rubber ends grip the door frame or wall.

H	Legend	Material	Brand	Item No.
Safety Cones, 4 Printed Sides				
26 in	Caution/Cuidado/Attention	Polypropylene	Tough Guy	6VKR4
36 in			Tough Guy	2LEC5
26 in	Caution Safety First/Cuidado La Seguridad Manda		Tough Guy	6VKR6
36 in			Tough Guy	6VKP6
36 in			Tough Guy	2LEC7
26 in	Caution Wet Floor		Tough Guy	6VKR5
36 in	Caution Wet Floor/		Tough Guy	2LEC6
36 in	Cuidado Piso Mojado	HDPE	Rubbermaid	3NB42
Safety Cones—Collapsible, 3 Printed Sides				
20 in	Caution/Cuidado/Attention	Fabric, Galvanized Steel, Nylon, Polypropylene	Rubbermaid	3UU65
30 in			Rubbermaid	3UU66
Safety Cones—Collapsible, 4 Printed Sides				
18 in	Caution Wet Floor/	Nylon	Handy Cone	9XZN4
31 in	Cuidado Piso Mojado		Novus Products	6XMH1

Description	H	Legend	Material	Brand	Item No.
Safety Cone Systems, 4 Printed Sides					
Barricade System with Chains	26 in	Caution Safety First/Cuidado La Seguridad Manda	Plastic	Tough Guy	6VKT0
Barricade System with Restricted Belts	36 in	Caution/Cuidado/Attention	Plastic	Tough Guy	2LEC8

Description	Brand	Item No.
Safety Cone Accessories		
240 in Plastic Barrier Chain, 0.80 in W	Tough Guy	2LEB3
Weight Ring, 1 in H	Tough Guy	2LED3
Flashing Light, 5 ⅝ in H	Tough Guy	2LEC9
Sign Holder, 1 ⅞ in H	Tough Guy	2LED2
Lock-In Sign Message Board, 10 ⅛ in H	Tough Guy	6VKT2
Message Labels, 8 in H x 8 in W, Pkg. of 4	Tough Guy	6GJA1

Sign Legend	Nominal Sign Size	Color	Brand	Item No.
Door Barricade Signs, 1 Printed Side				
Closed for Cleaning/Cerrado Por Limpieza	18 in x 13 ¾ in	Yellow	Tough Guy	2LEB6
Closed for Maintenance/ Cerrado Por Mantenimiento	18 in x 13 ¾ in	Yellow	Tough Guy	6GJA0

Over-the-Spill Station Kit

Designed for quick containment, identification, and absorption of water- and oil-based spills. 3NB37 includes (22) large pads, fasteners, and a plastic, refillable dispenser that attaches to flat surfaces. 3NB40 mounts onto Rubbermaid floor signs or any flat surface and holds medium-size tear-off pads. Each yellow pad is coded with universal caution symbol and "Caution Wet Floor" message in English and Spanish.

Description	Item No.
Station Kit	3NB37
22 Large Pads (absorb 16 oz per pad)	3NB38
22 Medium Pads (absorb 14 oz per pad)	3NB39
22-Pad Tablet (absorb 14 oz per pad)	3NB40

3NB37

2 Sides 55AK19

2 Sides 5W544

With Middle Support, 4 Sides 3XH26

Reversible, 4 Sides 3YTG6

A-Frame Plastic Floor Safety Signs

Portable signs fold flat for easy storage. Not retroreflective.

See-All Industries signs are waterproof and have a write on surface.

Rubbermaid and **See-All** signs are ANSI, OSHA, and 29 CFR 1910.145 Compliant.

Middle Support Signs—Offer extra stability.

Reversible Signs—Fold signs inside out and lock bottom tabs together to display message that is on the reverse side.

Blank Signs and Die Cut Lettering Kit—Create custom message with blank signs and die cut sheet of letters and numbers. 3YTV5 includes (3) each of A, E, I, O; (2) each of L, N, R, S, T, U; (1) each of the remaining alphabet and numbers 1 to 9; and basic punctuation characters.

Sign Legend	Nominal Sign Size	Color	Brand	Item No.
Floor Sign, 1 Printed Side				
Danger Do Not Enter	20 in x 12 in	White	See All Industries	3YTC9
Floor Signs, 2 Printed Sides				
Authorized Personnel Only Beyond This Point	20 in x 12 in x 12 in	White	See All Industries	3YTJ6
Caution/Cuidado/Attention	25 in x 11 in x 11 in	Yellow	Rubbermaid	3U953
Caution Forklift Traffic	20 in x 12 in x 12 in	Yellow	See All Industries	3YTH6
Caution Header, Blank Bottom		Yellow	See All Industries	3YTH9
Caution Maintenance Work In Progress		Yellow	See All Industries	3YTJ9
Caution Men Working		Yellow	See All Industries	3YRZ9
Caution Spill Cleanup In Progress Stay Clear		Yellow	See All Industries	3YTF3
Caution Watch Your Step		Yellow	See All Industries	3YTA3
Caution Wet Floor	23 39/64 in x 11 51/64 in	Yellow	Tough Guy	55AK19
Caution Wet Floor	25 in x 11 in x 26 in	Yellow	Rubbermaid	5W544
Confined Space Permit Required For Entry	20 in x 12 in x 12 in	White	See All Industries	3YTD9
Danger Chemical Spill Keep Away		White	See All Industries	3YTD6
Danger Header, Blank Bottom		White	See All Industries	3YTJ3
Danger No Pedestrian Traffic		White	See All Industries	3YTE6
Danger Overhead Hazard		White	See All Industries	3YTE3
Danger Spill Cleanup In Progress Stay Clear		White	See All Industries	3YTE9
Hazardous Area		White	See All Industries	3YTD3
Rest Rooms Being Cleaned	24 in x 12 in x 11⅞ in	Yellow	Tough Guy	6DMH1
Rest Rooms Closed		White	Tough Guy	6DMG9
Floor Signs—With Middle Support, 2 Printed Sides				
Asbestos	24 in x 11 29/36 in x 12 in	White	Tough Guy	6DMG2
Authorized Personnel Only		White	Tough Guy	6DMG4
Caution Attention/Cuidado/Achtung		Yellow	Tough Guy	2LEA8
Caution Forklift Traffic		Yellow	Tough Guy	6DMF9
Caution Men Working		Yellow	Tough Guy	6DMG6
Caution Watch Your Step		Yellow	Tough Guy	6DMF8
Closed/Cerrado/Geschlossen/Ferme		Yellow	Tough Guy	2LEB1
Confined Space Permit Required For Entry		White	Tough Guy	6DMG7
Danger Chemical Spill-Keep Away		White	Tough Guy	6DMG3
Danger Do Not Enter		White	Tough Guy	6DMH4
Danger Overhead Hazard		White	Tough Guy	6DMG0
Handling Chemicals		White	Tough Guy	6DMH5
Hazardous Area		White	Tough Guy	6DMH3
Keep Right/Left		Yellow	Tough Guy	6DMG5
No Smoking		White	Tough Guy	6DMG1
Restricted Area		White	Tough Guy	6DMG8
Wet Paint		White	Tough Guy	6DMH0
Floor Signs—With Middle Support, 4 Printed Sides				
Caution Attention/Cuidado/Achtung	37 in x 12 in x 12 in	Yellow	Tough Guy	2LEA9
Caution Wet Floor	37 in x 12 in x 38 in	Yellow	Rubbermaid	3XH26
Closed/Cerrado/Geschlossen/Ferme	37 in x 12 in x 12 in	Yellow	Tough Guy	2LEB2
Reversible Floor Signs, 4 Printed Sides				
Caution Forklift Traffic, Caution No Pedestrians Forklift Area	20 in x 12 in x 12 in	Yellow	See All Industries	3YTK9
Caution Men Working, Caution Construction Area		Yellow	See All Industries	3YTK6
Caution Watch Your Step, Caution Wet Floor		Yellow	See All Industries	3YTG6
Caution Wet Floor		Yellow	See All Industries	3YTK3
Wet Paint, Caution Maintenance Work In Progress		Yellow	See All Industries	3YTL3

Description	Nominal Sign Size	Color	Brand	Item No.
Blank Floor Signs and Lettering Kit				
Blank Floor Sign	20 in x 12 in x 12 in	Yellow	See All Industries	3YTU6
Blank Floor Sign		White	See All Industries	3YTV1
Lettering Kit For Use With 3YTU6 and 3YTV1	—	—	See All Industries	3YTV5

2MPE4

Galvanized Steel Mop Buckets

Zinc coating on round buckets prevents leaks and corrosion. Hot-dipped galvanized after bucket is formed. Durable, weather-resistant mop buckets are ideal for cleanup, wet or dry transport, storage, and more.

H	W	Cap.	Brand	Item No.
7 in	9 in	1¼ gal.	—	2MPE4
9 in	10 in	2 gal.	—	2MPE5
9 ¼ in	11 in	2½ gal.	Tough Guy	2MPE6
10 ¼ in	11 ¼ in	3 gal.	—	2MPE7
11 in	11 13/64 in	3½ gal.	—	2MPE8

2W318

2W316

Steel Mop Bucket and Wringer

2W318—24-ga. steel bucket offers mechanically locked, hand-soldered seams. Bucket has a reinforced top ring, riveted bail ears, embossed graduations, and 2" rubber wheels.

2W316—Linkage system and ⅝" solid steel shaft put more force on mop head. Heavy-gauge zinc-electroplated steel to resist corrosion. Large drain openings. Works with 2W318 Mop Bucket.

Description	Cap.	Item No.
Wheeled Oval Bucket, 16 in H x 12 in W	6½ gal.	2W318
Side Press Mop Wringer	20 to 40 oz Mops	2W316

3ANT5

3ANT1

Shape	Cap.	Item No.
Hot-Dipped Galvanized Steel		
Oval	2 gal	3ANT6
Oval	4 gal	3ANT5
Oval	5 ½ gal	3ANT4
Oval	7 ½ gal	3HNF5
Round	9 gal	3HNF8
Oval	10 ½ gal	3HNF6
Oval	16 gal	3ANT7
Round	35 gal	3HNF7
Galvanized Steel		
Round	9 21/64 gal	3ANR9
Round	11 gal	3ANT1
Round	15 gal	3ANT2
Round	17 gal	3ANT3

Galvanized Steel Tubs

Tubs are hot-dipped galvanized steel or galvanized sheet steel. Equipped with side drop handles. 3ANR9 is not watertight; for dry measure only.

5M792

1ELK3

Plastic Mop Buckets

These 1-pc. buckets feature pour spouts and molded-in graduations for more accurate measuring. Rust-resistant handles with plastic sleeves. Rubbermaid buckets are HDPE construction.

Description	Shape	Cap.	Dia.	H	Brand	GRAY Item No.	RED Item No.
Bucket	Round	2½ gal.	10 in	10¼ in	Tough Guy	1ELJ8	1ELJ9
Bucket	Round	2½ gal.	10 ½ in	10¼ in	Rubbermaid	4W246	5M792
Bucket	Round	3½ gal.	9 ½ in	11¼ in	Tough Guy	1ELK1	—
Bucket	Round	3½ gal.	11 ½ in	11¼ in	Tough Guy	—	1ELK2
Bucket	Round	3½ gal.	12 in	11¼ in	Rubbermaid	3U660	3U661
Bucket with Split Compartment	Rectangular	4¼ gal.	—	10⅛ in	Tough Guy	1ELK3	—
Bucket with Split Compartment	Rectangular	4¾ gal.	—	11 in	Tough Guy	1ELK4	—
Bucket with Split Compartment and Plastic Grip	Rectangular	4¼ gal.	—	10⅛ in	Rubbermaid	3U662	—

impact

Plastic Bucket

White multi-use bucket has a steel handle with an ergonomic plastic grip.

L	W	Cap.	Item No.
12 ¼ in	12 11/16 in	5 gal	39FC98

36LH94

Steel Pails

Feature a zinc coating that helps prevent leaks and corrosion.

L	W	Cap.	Item No.
5 in	7 ¼ in	⅝ gal	36LJ02
9 ½ in	9 ½ in	1 ¼ gal	36LH94
11 in	11 in	2 ½ gal	36LH95
12 ¾ in	12 ¾ in	3 ½ gal	36LH96

Color-Coded Plastic Pail Set

Reduce the possibility of cross contamination by differentiating areas of use. Polypropylene pails are sold as a set in 4 colors: blue, green, red, and yellow. A metal handle makes each cleaning pail easy to transport. Use with Rubbermaid Janitor Carts.

Cap.	H	Item No.
1 ¼ gal	8 ½ in	1UFF6

Combo with Down Pressure Wringer Yellow D8085

Mop Bucket without Wringer Red D8083

Tough Guy Down Pressure Wringer D8084

Mop Bucket/Wringer Combos

Bucket/Wringer Combos and Mop Buckets—35-qt. bucket comes equipped with casters and a powder-coated metal handle. D8083 is a mop bucket without a wringer.

Mop Wringers—Wringers include PVC handle cover and powder-coated metal handle.

Description	Cap.	▶CHOOSE: Color	Item No.
Mop Bucket/Wringer Combos			
Combo with Side Pressure Wringer	8 ¾ gal	Blue, Brown, Green, Orange, Red, Yellow	D8082
Combo with Down Pressure Wringer	8 ¾ gal	Blue, Brown, Green, Orange, Red, Yellow	D8085
Mop Buckets			
Mop Bucket without Wringer, use with D8081 or D8084	8¾ gal	Blue, Brown, Green, Orange, Red, Yellow	D8083
Mop Wringers			
Side Pressure Wringer for D8083	35 qt	Blue, Brown, Green, Orange, Red, Yellow	D8081
Down Pressure Wringer for D8083	35 qt	Blue, Green, Orange, Red, Yellow	D8084

Institutional Mop Bucket and Wringer Combo

Designed for use in correctional and institutional applications—virtually all-plastic, metal-free design reduces the ability for making weapons. Features quiet-rolling 3" nonmarking casters. Wave baffles result in less splashing while mopping and maneuvering. Molded-in handles, sink ledge and a pour spout provide control to ensure a safe and stable emptying process.

Description	Cap.	Color	Item No.
WaveBrake with Funnel Pressure Wringer	8 ¾ gal	Yellow	5NY94

Tandem 1-Piece Bucket/Wringer Combo 2FTP8

Color coded combo E4108 helps keep different types of cleaner separated

Mop Bucket/Wringer Combos

TANDEM

All-in-one compact design with integrated bucket and wringer provides effective wringing and no lost parts. 31-qt. bucket has a down pressure wringer and accepts up to 24-oz. mops.

NEW GENERATION WAVEBRAKE BUCKET/WRINGER COMBOS

Patented mop bucket system helps prevent workplace hazards associated with spills and splashes. Color-coding on Bucket/Wringer Combos helps reduce cross-contamination. Organize by function, department, or building area. WaveBrake baffles reduce splashing while mopping and maneuvering for a safer environment. Molded-in pour spout and sink ledge help direct water while emptying the mop bucket. Improved wringer design works with more mop sizes, extra small to extra large (12- to 32-oz.). Built-in steel handle provides a secure grip to lift and carry the bucket. Red handle at back of mop bucket helps lift, carry, and empty the bucket. Structural web-molded plastic construction. 493G96 includes a foot-operated drain in front of bucket to empty into floor drains.

NEW GENERATION WAVEBRAKE BUILD YOUR OWN BUCKET COMPONENTS

Individual components and colors are available to build a cleaning system that meets your specific needs.

Note: New Generation WaveBrake wringers, replacement buckets, and dirty water buckets will not fit on pre-September 2018 mop buckets.

Description	Cap.	▶CHOOSE: Color	Item No.
Tandem Combo			
1-Piece Bucket/Wringer	7 ¾ gal	Yellow	2FTP8
New Generation WaveBrake Bucket/Wringer Combos			
With Side Pressure Wringer	6 ½ gal	Yellow	493H19
With Side Pressure Wringer	8 ¾ gal	Black, Blue, Brown, Green, Red, Yellow	E4108
With Side Pressure Wringer and Drain	8 ¾ gal	Yellow	493G96
With Side Pressure Wringer	11 gal	Yellow	2FTK7
With Down Pressure Wringer	8 ¾ gal	Black, Blue, Brown, Green, Red, Yellow	E4107
With Down Pressure Wringer	11 gal	Yellow	2FTK8
New Generation WaveBrake Build Your Own Bucket Components			
Mop Bucket	8 ¾ gal	Yellow	493H10
Dirty Water Bucket	4 ½ gal	Red	493H18
Side Pressure Wringer	—	Black, Blue, Brown, Green, Red, Yellow	K2010
Down Pressure Wringer	—	Yellow, Brown, Blue, Red, Black	K2011

1TYK8

1TYX5

3U671

15F241

String Wet Mop Heads

- 4-ply
- Looped-end
- Stitched tailband
- Multiple colors help avoid cross contamination
- Wet mop handles sold separately on page 1532
- Launderable unless otherwise noted

Cotton/Rayon/Synthetic Blend—Durable mop heads have open-end spun yarn. Resist unravelling, fraying, and linting. Tailband prevents tangling and improves floor coverage.

Cotton/Synthetic Blend—Mop heads are highly absorbent. Looped-end design increases floor coverage and reduces streaks.

Cotton—Cotton material is more absorbent than other cotton/synthetic blends.

Antimicrobial—Mop heads feature antimicrobial yarn treated with a silver-based agent.

Rayon/Polyester—Contain a minimum of 50% post-consumer recycled content.

Size	Dry Wt.	Headband Size	Mop Connection Type	BLUE Item No.	GREEN Item No.	ORANGE Item No.	WHITE Item No.	RED Item No.
Cotton/Rayon/Synthetic Blend								
Small	12 oz	5 in	Clamp, Quick Change, Side-Gate	1TYK9	1TYL1	1TYL2	1TYK8	—
Medium	16 oz	5 in	Clamp, Quick Change, Side-Gate	1TYL4	1TYL5	1TYL6	1TYL3	—
Large	22 oz	5 in	Clamp, Quick Change, Side-Gate	1TYL8	1TYL9	1TYN1	1TYL7	—
Extra Large	26 oz	5 in	Clamp, Quick Change, Side-Gate	1TYN3	1TYN4	1TYN5	1TYN2	—
Cotton/Synthetic Blend								
Small	12 oz	5 in	Side Gate *	1TYN7	1TYN8	—	1TYN6	1TYN9
Medium	16 oz	5 in	Side Gate *	1TYP2	1TYP3	—	1TYP1	1TYP4
Large	22 oz	5 in	Clamp, Quick Change, Side-Gate *	1TYP6	1TYP7	—	—	1TYP8
Large	22 oz	5 in	Side Gate *	—	—	—	1TYP5	—
Cotton								
Small	12 oz	5 in	Clamp, Quick Change, Side-Gate *	—	—	—	1TYP9	—
Medium	16 oz	5 in	Clamp, Quick Change, Side-Gate *	—	—	—	1TYR1	—
Large	22 oz	5 in	Clamp, Quick Change, Side-Gate *	—	—	—	1TYR2	—
Antimicrobial Cotton								
Small	12 oz	1 in	Quick Change, Side-Gate	1TYT3	1TYT4	1TYT5	1TYT2	—
Medium	16 oz	1 in	Quick Change, Side-Gate	1TYT7	1TYT8	1TYT9	1TYT6	—
Large	22 oz	1 in	Quick Change, Side-Gate	1TYU2	1TYU3	1TYU4	1TYU1	—
Small	12 oz	5 in	Quick Change, Side-Gate	1TYU6	1TYU7	—	—	—
Small	12 oz	5 in	Quick Change, Side-Gate	1TYU8	—	—	—	—
Small	12 oz	5 in	Clamp, Quick Change, Side-Gate	—	—	—	1TYV8	—
Medium	12 oz	5 in	Quick Change, Side-Gate	—	1TYU5	—	—	—
Medium	16 oz	5 in	Clamp, Quick Change, Side-Gate	1TYV1	1TYV2	1TYV3	1TYV9	—
Large	22 oz	5 in	Clamp, Quick Change, Side-Gate	1TYV5	1TYV6	1TYV7	1TYV4	—
Extra Large	26 oz	5 in	Clamp, Quick Change, Side-Gate	—	—	—	1TYX2	—
Antimicrobial Rayon								
Small	12 oz	5 in	Clamp, Quick Change, Side-Gate	1TYX3	1TYX4	—	—	1TYX5
Medium	16 oz	5 in	Clamp, Quick Change, Side-Gate	1TYX6	1TYX7	—	—	1TYX8
Large	22 oz	5 in	Clamp, Quick Change, Side-Gate	1TYX9	—	—	—	—
Large	22 oz	5 in	Side Gate	—	1TYY1	—	—	1TYY2
Rayon/Polyester								
Medium	16 oz	5 in	Side Gate	—	19N831	—	—	—
Medium	22 oz	5 in	Side Gate	—	19N832	—	—	—

** Nonlaunderable.*

String Wet Mop Heads

- 4-ply
- All mop heads are looped-end; except Dura Pro are cut-end
- Stitched tailband
- Multiple colors help avoid cross contamination
- Wet mop handles sold separately on page 1532
- Launderable unless otherwise noted

Web Foot Shrinkless Antimicrobial—Premium mops feature material with cotton's absorbency, rayon's quick pick-up and water release, and the strength of a synthetic blend. Prelaundered and preshrunk. Up to 75 launderings.

Super Stitch—Balanced cotton/synthetic yarn blend. Plastic mesh headband. Limited launderability.

Swinger Loop—High-grade blend of cotton, rayon, and synthetic fibers. Up to 50 launderings.

Maximizer—Absorbs up to 3 times as much fluids than standard cotton mops. Up to 50 launderings.

Dura Pro—Balanced cotton/rayon/synthetic yarn blend increases absorbency and has fast-drying strands, reducing growth of harmful bacteria. Bolt-on mop head keeps mop secure. Coarse strings are banded at handle connection with loose hanging ends. Pkg. of 12.

Size	Dry Wt.	Headband Size	Mop Connection Type	BLUE Item No.	GREEN Item No.	ORANGE Item No.	WHITE Item No.	RED Item No.
Web Foot Shrinkless Antimicrobial								
Small	18 oz	5 in	Side Gate	3U672	3U671	—	3U670	—
Medium	20 oz	5 in	Side Gate	3U676	—	—	3U674	—
Medium	22 oz	5 in	Side Gate	—	3U675	3U677	—	—
Large	26 oz	5 in	Side Gate	—	—	—	3U678	—
Large	28 oz	5 in	Side Gate	3U680	3U679	3U681	—	—
Super Stitch								
Medium	16 oz	1 in	Side Gate	—	—	—	—	8A639
Large	18 oz	1 in	Side Gate	—	—	—	—	8UK78
Medium	16 oz	5 in	Side Gate *	5MU66	5MU67	—	5MU71	—
Large	18 oz	5 in	Side Gate *	5MU68	—	—	5M968	—
Large	22 oz	5 in	Side Gate *	—	5MU69	—	—	—
Swinger Loop								
Small	16 oz	5 in	Side Gate	5MU56	—	—	—	—
Medium	16 oz	5 in	Side Gate	5MU58	—	—	5W647	—
Medium	22 oz	5 in	Side Gate	—	5MU59	—	—	—
Large	20 oz	5 in	Side Gate	—	—	—	5W648	—
Large	28 oz	5 in	Side Gate	5MU60	5MU61	—	—	—
Extra Large	25 oz	5 in	Clamp	—	—	—	3U970	—
Extra Large	34 oz	5 in	Side Gate	5MU62	—	—	—	—
Maximizer								
Small	16 oz	1 in	Side Gate	—	—	—	—	38UK10
Medium	16 oz	1 in	Side Gate	—	—	—	—	38UJ89
Medium	22 oz	1 in	Side Gate	—	—	—	—	38UK09
Large	22 oz	1 in	Side Gate	38UJ84	—	—	—	—
Large	22 oz	1 in	Side Gate	—	—	—	—	38UJ88
Dura Pro								
Medium	16 oz	1 in	Side Gate *	15F223	—	—	—	—
Medium	18 oz	1 in	Side Gate *	15F229	—	—	15F232	—
Medium	28 oz	1 in	Side Gate *	15F234	—	—	15F237	—
Medium	34 oz	1 in	Side Gate *	15F241	—	—	—	—

** Nonlaunderable.*

6PVY7

6PVZ0

Tube Wet Mop Heads

- Multiple colors help avoid cross contamination
- Launderable
- Wet mop handles sold separately on page 1532

These mop heads are made of absorbent microfiber looped fabric tubes that don't tangle, shed, or snag. A headband holds the tubes together and attaches to the mop handle for cleaning floors.

Size	Dry Wt.	Headband Size	Mop Connection Type	BLUE Item No.	GREEN Item No.	RED Item No.	YELLOW Item No.
Small	12 oz	5 in	Quick Change	6DML3	6DML6	—	—
Medium	10 oz	1 in	Quick Change, Side-Gate	6PVZ4	6PVZ6	6PVY8	6PVY7
Medium	10 oz	5 in	Clamp, Quick Change, Side-Gate	—	—	6PVY6	6PVY5
Medium	14 oz	5 in	Quick Change	6DML4	6DML7	—	—
Large	17 oz	5 in	Quick Change	6DML5	6DML8	—	—
Large	18 oz	1 in	Quick Change, Side-Gate	6PVZ3	6PVZ5	6PVZ2	6PVZ1
Large	18 oz	5 in	Clamp, Quick Change, Side-Gate	—	—	6PVZ0	6PVY9

Cut-End Wet Mop Heads

- 4-Ply
- Size is dry weight

A variety of mop handles are available separately on page 1532.

Headband Style—Polyester headband helps maintain shape and improve productivity.

Screw-On Style—Mops screw on and off for easy mop head changes. Allow easy cleaning under furniture and cabinets.

Blue Cotton, Headband Style
1TYR8

Size	L	Color	Item No.
Rayon/Cotton/Kevlar/Nylon, 1" Headband Style			
22 oz	18"	Green	19N830
Cotton, 1" Headband Style			
12 oz	15"	Blue	1TYR7
16 oz	15"	Blue	1TYR3
16 oz	17"	Blue	1TYR8
20 oz	17"	Blue	1TYR4
20 oz	19"	Blue	1TYR9
24 oz	20"	Blue	1TYR5
24 oz	21"	Blue	1TYT1
32 oz	22"	Blue	1TYR6
12 oz	16"	Natural	16W207
16 oz	16"	Natural	16W219
16 oz	18"	Natural	16W208
20 oz	19½"	Natural	16W209
26 oz	20½"	Natural	16W210
32 oz	20½"	Natural	16W220

Size	L	Color	Item No.
Cotton, 1¼" Headband Style			
20 oz	18"	Natural	16W229
24 oz	19½"	Natural	16W230
Rayon/Polyester, 1" Headband Style			
6 oz	14"	White	22VA16
8 oz	14"	White	22VA17
10 oz	18"	White	22VA18
13 oz	21"	White	22VA19
Cotton Screw-On Style			
16 oz	16"	Natural	16W223
24 oz	19½"	Natural	16W224
32 oz	20½"	Natural	16W225

Finish Wet Mop Heads

- Size is dry weight

Looped-End Nylon—Even application without excessive linting or fraying. Higher liquid release offers more coverage and less chemical waste.

Looped-End Rayon—Economical alternative to nylon. Releases liquid evenly for a smooth, clean finish.

Cut-End Polyester—Economical 4-ply mops have excellent absorbency and release characteristics; ideal for applying floor finishes and disinfectants.

Cut-End Polyester, Screw-On Style—Provide easy mop head changes and have excellent liquid release properties; ideal for economical floor finishing, disinfecting, and general-purpose cleaning. Noncorrosive screw and header allows mops to lay flat for easy cleaning under furniture and cabinets. Use handle 1TZA6, sold separately on page 1532.

1TYY4

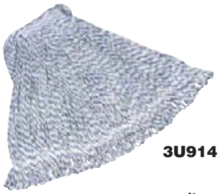
Size	L	Color	Item No.
Looped-End Nylon, 1¼ in Headband Style			
16 oz	15"	White	1TYY4
22 oz	17"	White	1TYY5
Looped-End Rayon, 1¼ in Headband Style			
16 oz	20"	Blue	1TYY6
22 oz	23"	Blue	1TYY7
Cut-End Polyester, 1¼ in Headband Style			
24 oz	19½"	Beige	16W231
Cut-End Polyester, 1 in Headband Style			
12 oz	16"	Beige	16W211
16 oz	16"	Beige	16W221
16 oz	18"	Beige	16W212
20 oz	19½"	Beige	16W213
26 oz	20½"	Beige	16W214
32 oz	20½"	Beige	16W222
Cut-End Polyester, Screw-On Style			
16 oz	16"	Beige	16W226
24 oz	19½"	Beige	16W227
32 oz	20½"	Beige	16W228

Rubbermaid Commercial Products

Finish Wet Mop Heads

Looped-End Nylon—Nonlinting, continuous filament yarn leaves a glossy long-lasting finish. GlossPro Flat Finish mop applies finish to 30% more floor area.

Web Foot Looped-End Rayon—4-ply, looped-end synthetic yarn is designed for a controlled release of floor finish. Tailband is sewn on the inside of mop to help reduce the "drag" patterns common to most finish mops.



3U914

Size	Color	Item No.
Looped-End Nylon, 1 in Headband		
20 oz	White	1RF59
26 oz	White	1RF60
Web Foot Looped-End Rayon, 1 in Headband		
16 oz	Blue	3U914
28 oz	Blue	5W649

Specialty Mop Heads

Rubbermaid Commercial Products

- Size is dry weight

Small: 8 to 16 oz., Medium: 16 to 22 oz., Large: 22 to 28 oz., X-Large: 28 to 34 oz.

Echo—Composed of 30% postconsumer recycled materials. Absorb almost 4.4 times their weight in water and release almost 30% upon wringing.

Cleanroom—Nonlinting, nonfraying mops are designed for use in Class 10,000 and higher industrial applications. Woven rayon/polyester blend.

1NNW3

Rough Floor—Abrasive-resistant to clean slip-resistant tile, concrete, and raised, textured, or stone floors without fraying. Knitted cotton and polyester fleece.

Wet mop handles sold separately on page 1532.

Color	Brand	SMALL Item No.	MEDIUM Item No.	LARGE Item No.	EXTRA LARGE Item No.
Echo Mop, 1¼ in Headband					
Green	Tough Guy	1NNW7	1NNW8	1NNW9	1NNX1
Echo Mop, 5 in Headband					
Green	Tough Guy	1NNW3	1NNW4	1NNW5	1NNW6
Cleanroom Mops, 5 in Headband					
White	Rubbermaid Commercial Products	—	1RF61	1RF62	—
Rough Floor Mops, 5 in Headband					
White	Rubbermaid Commercial Products	—	1RG34	1RG35	—

Quick-Change Cone Wet Mop

Quickie

- Size is dry weight

Mop head features tightly wound microfiber strings for enhanced absorption as well as wide, flat strands of microfiber and nylon scrubbies to clean without scratching. Slender cone design on handle provides unmatched wringing power with little effort.

53UJ52

Size	Color	Headband Size	Handle L	Item No.
Cone Mop				
22 oz	Blue/White	20 in	59 in	53UJ52
Cone Mop Head				
4 oz	Blue/White	20 in	No Handle	53UJ51

Deck and Correctional Facility Mops

- Cut-end wet mop heads
- Size is dry weight

Deck Mops—4-ply economy cotton mops are ideal for small clean-up jobs. 18.5-ga., 3" plastic reinforced binding adds strength.

Correctional Facility Mops—Wire-free, 4-ply cotton yarn mops have a durable wood handle.

16W215

22VA23

Mop Connection Type	Size	Color	Headband Size	Handle L	Item No.
Deck Mops					
Screw On	12 oz	Natural	16 in	48 in	16W215
Screw On	16 oz	Natural	20 in	48 in	16W216
Screw On	20 oz	Natural	24 in	60 in	16W217
Screw On	26 oz	Natural	32 in	60 in	16W218
Correctional Facility Mops					
Tied On	16 oz	Natural	—	48 in	22VA23
Tied On	24 oz	Natural	—	54 in	22VA24

Quickie

Sponge Mops

- Mops have a 48" L handle

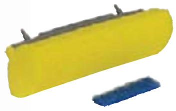
ROLLER MOPS

Pull lever on mop handle operates rollers to squeeze liquids from cellulose head.

BUTTERFLY MOPS

Automatic squeezing makes these mops easy to wring and simple to use. Absorbent cellulose sponge features a built-in front scrubber for removing scuff marks and stubborn stains.

1TTY9



53UJ50

53UJ48

53UJ58

Description	Brand	Item No.
Roller Mops		
Wet Mop	Tough Guy	1TTY9
Mop Head Refill for 1TTY9	Tough Guy	1TTZ1
Mop & Scrub Mop with Microban	Quickie	53UJ53
Mop & Scrub Mop Head Refill with Microban for 53UJ53	Quickie	53UJ50
Mop & Scrub Mop with Scrub Brush with Microban	Quickie	53UJ54
Butterfly Mops		
Microfiber Sponge Mop	Quickie	53UJ58
Microfiber Sponge Mop Head Refill	Quickie	53UJ48
Sponge Mop Head Refill with Microban	Quickie	53UJ47

Microfiber String Mop Heads

38UK07

Combination of monofilament microfiber and unique Maximizer blend provides a highly absorbent mop for improved cleaning performance. Highly durable mop can withstand up to 100 commercial laundry cycles.

Dry Weight	Headband Size	▶CHOOSE: Color	Mop Connection Type	Item No.
16 oz	1 in	Green, Red	Side Gate	J5814
22 oz	1 in	Green	Side Gate	38UK07

Flat Finish Mopping Head

Tightly twisted, cotton/synthetic blend looped-end mop absorbs and releases finish smoothly and evenly. Delivers 200 to 300 sq. ft. of coverage. Lint-free.

L	W	Color	Item No.
18"	5 in	Blue	2U652

2U644

3U454

Cleaning Kits

WALL WASHING KIT

Pivoting head allows washer to move evenly over surfaces and clean at difficult angles. Raised rib design works with side or downward pressure mop wringers. Includes aluminum handle, plastic head, and 2 cotton pads.

ALL-PURPOSE CLEANING KIT

Contains components for cleaning floors, walls, windows, and ceilings. Includes: 8-ft. telescopic pole, safety scraper with blade, glass scraper, 14" strip washer, 10", 14", and 18" "S" channel with soft rubber blades and squeegee handle, Fixi-Clamp, brush, large sponge, and 36" replacement rubber. Includes vinyl/nylon case for transport.

Description	Brand	Mfr. Model	Item No.
Wall Washing Kit w/60" Handle	Rubbermaid	FGS22600GY00	2U644
Replacement Head for 2U644	Rubbermaid	FGS29900WH00	2U645
All-Purpose Cleaning Kit	Unger	TRS00	3U454

Side Gate Gray Handle F8885

Clamp Gray Handle J5813

Blue Green Red

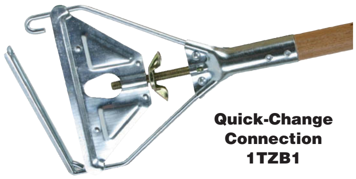
Color-Coded Mop Handles

Color-coded handles help reduce cross-contamination and identify which cleaning solution products should be used in designated areas. Side Gate allows mop to easily slide on/off handle. Thumb wheel clamps hold mop firmly in place. Clamp holds mop firmly between the jaws of mop handle.

Mop Connection Type	Handle L	For Use With	▶CHOOSE: Handle Color	Item No.
Side Gate	60 in	1 and 5 in Headband Mops	Blue, Gray, Green, Red	F8885
Clamp	60 in	5 in Headband Mops		J5813

Side Gate Connection 1TYZ9

Janitor Wing Nut Connection 1TZA7



Quick-Change Connection 1TZB1

Wet Mop Handles

Handle L	Dia.	Handle Material	▶CHOOSE: Handle Color	Item No.	
Side Gate Connection					
54 in	1⅛"	Wood	Natural	1TYY8	
54 in	1 ⅛"	Wood	Gray	1TYZ7	
60 in	1⅛"	Wood	Natural	1TYY9	
60 in	1⅛"	Wood	Blue	1TYZ8	
54 in	15/16"	Aluminum	Gray	1TYZ9	
60 in	15/16"	Aluminum	Gray	1TZA1	
Jaw Connection					
54 in	15/16"	Aluminum	Gray	1TYZ1	
60 in	15/16"	Fiberglass	Blue, Gray, Green, Red	F8738	
60 in	15/16"	Aluminum	Gray	1TYZ2	
60 in	15/16"	Fiberglass	Blue, Gray, Green, Red	F8739	
60 in	1"	Fiberglass	Yellow	1NFF4	*
T Bar Head Connection					
63 in	1"	Fiberglass	Yellow	1NFF3	*
Screw On Connection					
60 in	1⅛"	Wood	Natural	1TZA6	
Stirrup Connection					
61 in	15/16"	Bamboo	Natural	4EMG1	
Janitor Wing Nut Connection					
60 in	1"	Fiberglass	Orange	1TZA8	
60 in	1"	Wood	Natural	1TZA9	
60 in	1⅛"	Wood	Natural	1TZA7	
Quick-Change Connection					
60 in	1⅛"	Wood	Natural	1TZB1	
61 in	15/16"	Bamboo	Natural	4EMF9	
62 in	—	Fiberglass	Yellow	30LU86	
62 in	—	Aluminum	Yellow	30LU87	
Clamp Connection					
62 in	—	Wood	Natural	30LU88	

** Handle has no metal parts, safe for correctional envrionments.*

3M Easy Scrub Mopping Systems

EASY SCRUB FLAT MOP SYSTEM

- Mop handle holds 15 oz. of solution
- 54" standard handle

Push-button and squeeze bottle systems provide liquid on-demand. Common applications include patient rooms, classrooms, stairwells, restrooms, and spot mopping.

Buddy Jug—2½ gal. dispensing container. Safe with general disinfectant cleaners with pH from 7 to 10.

EASY SCRUB EXPRESS FLAT MOP SYSTEM

- 38" to 59½" aluminum handle

Quickly and easily change out chemicals. Swivel head.

Express Mop Tool and Starter Kit—1EKB2 includes an aluminum telescopic handle/pole and 16" mop pad holder. Simple press of a button dispenses cleaning solution. 30XJ20 includes flat mop tool, 12 (11 oz.) bottles, caddy, two 18" flat microfiber mops, ½ gal. pour jug, three blank sheets, and label CD.

Express Bottles—Squeezable bottles hold 11½ oz. of cleaning solution and fit in mop handle.

Express Bottle Caddy—Portable, holds up to twelve 11½ oz. Express bottles (1EKB4).

MICROFIBER FLAT MOPS

Clean and remove stuck on dirt and debris. Polypropylene scrub stripes are intertwined with absorbent microfibers. Washable. Color-coded borders help reduce cross-contamination. Red for restroom floors. Blue for operating and emergency rooms. Green for kitchen floors. White for general floors and dining floors in facilities, or patient rooms and public areas in healthcare facilities. Use 1CPH4 for textured surfaces such as ceramic tile, quarry tile, natural stone, etc.

Description	L	W	Item No.
Easy Scrub Flat Mop System			
Mop Kit	16"	3¾"	**6XU14**
Buddy Jug	7 ½ in	9 ½ in	**6YE88**
Easy Scrub Express Flat Mop System			
Express Mop Tool with Pad Holder	16"	3¾"	**1EKB2**
Express Mop Starter Kit	18"	18"	**30XJ20**
Express Bottles, Pkg. of 12	9 ⅞ in	2 in	**1EKB4**
Express Bottle Caddy	6 ⅝ in	6 in	**1EKB3**
Microfiber Flat Mops for Easy Scrub and Easy Scrub Express, Pkg. of 10			
White with Green Scrubbing Stripes	12"	5½"	**1CPH1**
White (Shaggy)	18"	5½"	**1CPH4**
White with Green Scrubbing Stripes	18"	5½"	**6XU15**
White with Green Scrubbing Stripes and Green Trim	18"	5½"	**1CPH8**
White with Green Scrubbing Stripes and Red Trim	18"	5½"	**1CPH7**
White with Green Scrubbing Stripes and Blue Trim	18"	5½"	**1CPH9**
White with Green Scrubbing Stripes	24"	5½"	**1CPH2**

SPHERGO Microfiber Flat Mop Starter Kit

Spherical ball handle on the base tool allows the user to reduce musculoskeletal stresses common to manual cleaning with traditional wiping systems. Cleaning surface rotates around the ball handle to minimize wrist motions, bending, and straining. Kit includes a telescoping aluminum handle (extends up to 62") with socket, a 24" extended reach pole with socket, 2 surface cleaning tools (medium and large), 3 medium MicroWorks flat pads, 3 medium MicroWorks flat specialty pads, and 3 large MicroWorks flat pads.

Frame Width	Frame Depth	Handle Length	Mop Connection Type	Mop Pad Size	Item No.
50 in	5 in	62 in	Snap On	5 in x 11 in, 5 in x 16 in	**421W97**

Rubbermaid Commercial Products PULSE Floor Cleaning Systems

PULSE—56" handle accepts 11", 18", and 24" frames and mops. Large, ergonomic trigger releases solution in 3 streams to edges of the frame. For cleaning chemicals only; not for floor finishes or bleach. Includes 2 cleaning pads, see page 1534 for replacements.

Refill Caddy 2FTR9 attaches to the cleaning system, allows for cleaning an additional 10,000 sq. ft.

PULSE with Double-Sided Frame—Productive floor cleaning system combines dusting and wet mopping with one convenient tool. Include 2 microfiber pads.

Description	Item No.
PULSE	
19 oz Spray Mop Kit	**2FTR8**
2 gal. Refill Caddy	**2FTR9**
PULSE with Double-Sided Frame	
Spray Mop Kit	**6TUL3**
17½" General Purpose Microfiber Mop Pad	**6TUL4**
17½" Dust & Wet Microfiber Mop Pad	**6TUL5**

3M Scotchgard Protector Easy Shine Floor Finish Applicator System

Floor Finish Applicator Kit—Includes mop handle, applicator pad holder, canvas backpack, two 18" applicator pads, chemical supply tubing and pouch connector, 5 dispenser tubes, and a reusable extended storage cleaning bag.

Floor Protector Chemicals—Ready-to-use liquid bag floor protectors provide the first layer of protection by filling uneven and porous surfaces and creating a semi-permanent layer with high chemical resistance. Sealers provide the base coat for floor finishes. High gloss finish type.

Chemical Fill Station—Gravity-fed funnel system includes five 1-gal. reusable pouches and 10 blank labels. Station directly fills pouches from containers.

Description	L	W	Brand	Item No.	Pkg. Qty.
Easy Shine Floor Finish Applicator System					
Floor Finish Applicator Kit	18"	—	3M	**6XU16**	1
Applicator System Accessories					
Applicator Pad	18"	4½"	3M	**6CTP9**	2
Applicator Pad	18"	5¾"	3M	**6XU17**	10
Applicator Pad	24"	5¾"	3M	**6XU18**	10
Pad Holder	17 in	—	3M	**6XU25**	1
Reusable Pouches, Plastic, 1 gal.	—	—	3M	**6XU20**	5

Description	Container Type	Container Size	For Floor Type	Properties	Brand	Item No.	Pkg. Qty.
Floor Protector Chemicals							
Resilient Floor Protector	Bag	1 gal	Linoleum, Vinyl	—	Scotchgard	**45CT68**	2
Stone Floor Sealer	Bag	1 gal	Concrete, Marble, Terrazzo	Low Foam, Nonflammable	Scotchgard	**402F14**	2

Description	Brand	Item No.	Pkg. Qty.
Chemical Fill Station			
Portable Dispenser	3M	**3GZW8**	1

1UEX5

3CCX1

5MY13 3CCX3

Microfiber Flat Mopping

Quick Connect Handles and Frames—Handles easily lock into frames for a quick frame exchange and extend to desired length. Nonmagnetic, lightweight aluminum construction is safe for use in MRI rooms.

Microfiber Pads—All mop pads are launderable up to 500 times (200 with bleach).

Step 1: Choose Your Handle

Description	L	Item No.
Handles		
Quick-Connect Short Extension Handle	20 in to 40 in	43WX13
Quick-Connect Ergonomic Adjustable Handle	42 in to 72 in	5MY14
Quick-Connect Extension Handle	48 in to 96 in	3HKC7
Quick-Connect Straight Extension Handle	42 in to 72 in	48GP70
Quick-Connect Handle	58 in	5MY13
Quick-Connect Extension Handle	72 in to 216 in	3HKC9
AMCE to Quick Connect Handle Adapter	1 3⁄32 in	3HKC6

Step 2: Choose Your Frame

Description	L	Item No.
Quick-Connect Frames		
Wall/Stair Frame	11 in	1UEX5
Wet/Dry Frame	18 in	5MU87
Hall Dusting Frame	36 in	5MU91
Hall Dusting Frame	48 in	5MU93
Hall Dusting Frame	60 in	3CCY9
Squeegee Frame	24 in	5MU89

Step 3: Choose Your Pad

Description	L	Color	Item No.
Microfiber Mop Pads			
Damp Mopping			
Wall/Stair Pad	11 in	Blue	3CCW7
Room Pad	18 in	Blue	3CCW8
Room Pad	18 in	Green	3CCW9
Room Pad	18 in	Red	3CCX1
Room Pad	24 in	Blue	3CCX4
High-Absorbancy Fringe Pad	18 in	Blue	3CCX3
Dust Mopping			
Room Pad	18 in	Green	3CCX9
Room Pad with Fringe	18 in	Green	3CCY4
Room Pad	24 in	Green	3CCY1
Room Pad with Fringe	24 in	Green	3CCY5
Room Pad	36 in	Green	3CCY2
Room Pad with Fringe	36 in	Green	3CCY6
Room Pad	48 in	Green	3CCY3
Room Pad with Fringe	48 in	Green	3CCY7
Room Pad with Fringe	60 in	Green	3CCY8
Disposable (Dry)			
For 17 in Quick Connect Frame Pkg of 150	—	White/Blue	60JA02

6PVX3

6PVT7 1TTY6 6DMY6

Microfiber Flat Mopping

Double-stitched with dense, durable microfibers to penetrate into surface pores. Color-coded pads for specific areas help prevent cross-contamination.

Dry Pads—Positively charged to attract dust.

Wet Pads—Hold up to 6 times its weight in water, making them more absorbent than traditional mops.

Disposable Pads—Perfect for individuals wanting to use microfiber, but not having laundry access. Work wet or dry.

Step 1: Choose Your Handle

Description	L	Item No.
Handle		
Aluminum Mop Handle	34 in to 60 in	6PVX3

Step 2: Choose Your Frame

L	Item No.
Aluminum Frames	
16 in	6PVU9
22 in	6PVX0
34 in	6PVX1

Step 3: Choose Your Pad

Size	Color	Style	Item No.	
Dry Microfiber Mop/Dust Pads				
18 in	White	Hook and Loop	1TTY2	
18 in x 5 in	Green	Hook and Loop	6PVT7	*
18 in x 5 in	Green	Slot Pocket	6PVT3	*
24 in x 5 in	Green	Hook and Loop	1TTY3	
24 in x 5 in	Green	Hook and Loop	6PVT8	*
24 in x 5 in	Green	Slot Pocket	6PVT4	*
36 in x 5 in	Green	Hook and Loop	1TTY4	
36 in x 5 in	Green	Hook and Loop	6PVT9	*
36 in x 5 in	Green	Slot Pocket	6PVT5	*
48 in x 5 in	Green	Hook and Loop	1TTY5	
48 in x 5 in	Green	Slot Pocket	6PVT6	*
Finish Pads				
18 in x 5 in	White	Hook and Loop	6PVT1	
24 in x 5 in	Blue/White	Hook and Loop	6PVT2	
Dry or Damp Flat Mop				
18 in	Green	Hook and Loop	6TMH0	
Wet Microfiber Mop/Dust Pads				
18 in	Blue	Hook and Loop	1TTY6	
18 in	Blue/Red	Hook and Loop	1TTY7	
18 in	Blue/Green	Hook and Loop	1TTY8	
18 in x 5 in	Orange	Hook and Loop	6PVU1	
Wet or Dry Disposable Microfiber Floor Pads, Pkg. of 50				
18 in	White	Hook and Loop	6DMY6	

** With fringe.*

1NE71

Microfiber Dust Mops

Microfiber mops collect more dust, dirt, and moisture than traditional mops.

ECHO CUT-END

Use on hard-surface floors. 90% recycled content—30% post-consumer, 60% post-industrial. Heat-set yarns will not unravel as quickly as other yarns. Launderable and fast-drying.

LOOPED-END

Hold more than ordinary microfiber mops. Kits include 3 pads and an adapter for use with regular dust mop frames (sold separately, see page 1537).

L	GREEN ECHO CUT-END Item No.	GREEN LOOPED-END Item No.	BLUE LOOPED-END Item No.
Dust Mops			
18 in	3XGA6	6PVU5	1NE75
24 in	3XGA7	—	1NE76
26 in	—	6PVU6	—
36 in	—	6PVU7	1NE77
48 in	3XGA9	6PVU8	1NE78
Dust Mop Kits			
18 in	—	—	1NE71
24 in	—	—	1NE72
36 in	—	—	1NE73
48 in	—	—	1NE74

5NY74

5NY73

Microfiber Mop Bucket Systems

7-gal buckets hold microfiber mops up to 18" long and fit onto Rubbermaid Janitorial Carts on page 1526.

Press Wringer Buckets—Washboard-style sieve strainer helps remove debris from the mop before down press wringing. Buckets hold multiple microfiber mop pads (available on this page) and have 3" nonmarking casters. 5NY74 allows storage of unused floor finish with an airtight lid. 5NY75 has a twist-valve floor drain for fast emptying.

Charging Bucket—Disinfecting bucket designed especially for healthcare cleaning has a watertight, latch-on lid. Holds 15 to 20 microfiber wet pads.

Charging Bucket With Sieve—Effectively and ergonomically moistens mops. Reduces cross-transmission when a finish mop is used for each room. Snap on lid and floor drain for fast emptying.

Description	Color	Item No.
Press Sieve Wringer Bucket with Lid	Blue	5NY74
Press Sieve Wringer Bucket	Yellow	5NY75
Charging Bucket	Yellow	5NY73
Charging Bucket with Sieve	Yellow	6XMG0

Rubbermaid Commercial Products

Looped-End Microfiber Dust Mops

Provide superior cleaning and twice the durability of standard dust mops with laundry cycles at 160°F. 70% recycled content; 42% post-consumer, 28% post-industrial. Launderable. Green color.

Description	D	Item No.
24" Mop	5 in	**3HKE7**
36" Mop	5 in	**3HKE8**
48" Mop	5 in	**3HKE9**

3HKE7

Rubbermaid Commercial Products
HYGEN

Flexi Frame Microfiber Cleaning System

HYGEN quick-connect mop frame conforms to the shape of the surface being cleaned. Arc shape pulls dirt and debris toward the center for better pickup. Choose one of the five different bleach-safe split microfiber covers. Launderable and MRI safe.

3HKA6

3HKA7

Description	Color	L	W	Item No.
Frame Handle				
11" Flexi Frame Handle	Black/Yellow	13⅛"	5⅜"	**3HKA6**
Microfiber Covers				
Dusting Cover	Green	8 ⅞ in	5⅞"	**3HKA7**
Wet/Dry Cover	White	8⅞"	5½" to 6½"	**3HKA8**
Glass Cleaner Cover	Blue	8⅞"	5⅞"	**3HKA9**
Tub/Tile Scrubber Cover	Blue/White	8¼"	8¼"	**3HKC1**
Damp Mop Cover	Blue/White	8¼"	8¼"	**3HKC2**

Rubbermaid Commercial Products

Microfiber Floor Starter Kits

For light commercial cleaning. Wet/Dry Kit 2FTT6 includes 18" frame, 52" handle, 18" wet pad, and 18" dust pad. Purchase 2FTT7 and 2FTT8 replacement pads separately.

2FTT6

Description	Color	Mfr. Model	Item No.
Wet/Dry MIcrofiber Floor Kit	Black/Yellow	Q101-20	**2FTT6**
Replacement 18" Wet Pad	Blue	Q409-20	**2FTT7**
Replacement 18" Dry Pad	Green	Q408-20	**2FTT8**

Tough Guy
Rubbermaid Commercial Products

Launderable Mop Nets

Protect mop heads during washing and drying. Draw cord with locking cinch keeps mop heads securely contained. Synthetic mesh material allows water and air to flow freely.

1TTZ2

Description	Overall L	Overall W	Brand	Item No.
Mop Net	36 in	24 in	Tough Guy	**1TTZ2**
Laundry Cart Net	36 in	24 in	Rubbermaid	**5N451**

Rubbermaid Commercial Products
Tough Guy

Microfiber Cloths

- **Launderable and reusable**

Small fibers trap dirt and moisture, cleaning surfaces without leaving a sticky residue or spreading dirt. Microfiber cloths are more absorbent than standard cotton cloths and don't require cleaners or chemicals. Use for general-purpose cleaning, tough jobs, and delicate surfaces. Leave no residual lint, streaks, or scratches. HYGEN medium-duty cloths, 3CCZ4 and 3CCZ3, withstand up to 500 launderings and up to 200 with bleach. Patented zig-zag scrubbers make cleanup quick and easy.

54TX86

32UV02

3CCZ4

Cloth Color	Size	GSM*	Brand	Item No.	Pkg. Qty.
Light Duty					
Pink	12 in x 12 in	190	Rubbermaid	**54TX84**	24
Green	12 in x 12 in	190	Rubbermaid	**54TX85**	24
Blue	12 in x 12 in	190	Rubbermaid	**54TX86**	24
Yellow	12 in x 12 in	190	Rubbermaid	**54TX87**	24
Red	16 in x 16 in	190	Rubbermaid	**54TX88**	24
Green	16 in x 16 in	190	Rubbermaid	**54TX89**	24
Blue	16 in x 16 in	190	Rubbermaid	**54TX90**	24
Yellow	16 in x 16 in	190	Rubbermaid	**54TX91**	24
Medium Duty					
Red	12 in x 12 in	200	Tough Guy	**32UV02**	12
Green	12 in x 12 in	200	Tough Guy	**32UV03**	12
Yellow	12 in x 12 in	200	Tough Guy	**32UV04**	12
Blue	12 in x 12 in	200	Tough Guy	**32UV05**	12
Orange	12 in x 12 in	200	Tough Guy	**32UV06**	12
White	12 in x 12 in	200	Tough Guy	**32UV07**	12
Pink	12 in x 12 in	200	Tough Guy	**32UV08**	12
White	16 in x 16 in	260	Tough Guy	**32UV09**	12
Blue	16 in x 16 in	260	Tough Guy	**32UV10**	12
Green	16 in x 16 in	260	Tough Guy	**32UV11**	12
Yellow	16 in x 16 in	260	Tough Guy	**32UV12**	12
Red	16 in x 16 in	260	Tough Guy	**32UV13**	12
Pink	16 in x 16 in	260	Tough Guy	**32UV14**	12
Blue	16 in x 16 in	280	Tough Guy	**1TTX8**	12
HYGEN Medium Duty					
Green	16 in x 16 in	290	Rubbermaid	**3CCZ4**	12
Yellow	16 in x 16 in	290	Rubbermaid	**3CCZ3**	12

** Grams per Square Meter.*

2FTF8

2FTF9

Rubbermaid Commercial Products

Linen Hamper and Bag

Integrated-lid hamper reduces noise and helps keep odor and bacteria from escaping. Step-on foot pedal enables hands-free operation. Plastic and aluminum hamper includes 2 swivel and 2 locking casters. 30-gal. hamper bag is washable, PVC-lined, and leak-resistant with a zippered front for easy emptying.

Description	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Linen Hamper	22¼"	20⅜"	37⅞"	FG630000BLA	**2FTF8**
Hamper Bag	19 ⅞ in	13 ⅜ in	29 ¼ in	FG635000BLA	**2FTF9**

3M

6XU23

Easy Trap Duster Sweep and Dust Sheets

Sheets can hold up to 8 times more dust, dirt, and sand than other systems. For floors and high dustings. Disposable cloth is perforated in 6" increments. Dust heads use holders with threaded handles (see page 1541).

Dimensions	Item No.
Dust Cloth Sheets	
5 in x 6 in x 30 ft.	48GF56
5 in x 6 in x 30 ft.	48GF54 *
8 in x 6 in x 30 ft.	48GF55
8 in x 6 in x 125 ft.	48GF53

** Pkg. of 2.*

Dimensions	Item No.
Dust Cloth Sheet Holders	
17 in L	6XE99
23 in L	3GZW9
35 in L	6XU11
47 in L	6XU23
59 in L	6XU24

Wedge Dust Mops

TOUGH GUY

Launderable.

CUT-END MOP HEAD

Slot-back flat mop. 10-ply cotton/poly blend.

CUT-END MOP KIT

Includes 48" wooden handle, mop frame, and cotton/poly blend mop head 1TZF7.

LOOPED-END MOP HEAD

Slot-back. 10-ply cotton/poly blend.

1TZF9

1TZG1

Description	Item No.
Cut-End Wedge Mop Head, White	1TZF7
Cut-End Wedge Mop Kit	1TZF8
Looped-End Wedge Mop Head, Yellow	1TZF9
Wedge Mop Frame with 48 in Wood Handle	1TZG1
Wedge Mop Frame with 54 in Fiberglass Handle	2TVG4

Swiffer

Floor Sweepers

Sweep with electrostatically-charged dry cloths to remove hair, dust, and dirt. Entangled microfibers in disposable cloths trap and hold dirt in place. Use presoaked wet cloths to dissolve tough soils, dirt, and grime. Feature a special scrubbing strip for especially tough jobs.

20L002

20L001

20K997

Description	Size	Item No.	Pkg. Qty.
Swiffer Sweeper	10 in	20K997	3
Swiffer Sweeper Wet Refill Cloths	8 in x 10 in	20L002	12
Swiffer Sweeper Dry Refill Cloths	8 in x 10 in	20L001	6
Swiffer Max Sweeper	17 in	20L003	3
Swiffer Max Sweeper Dry Refill Cloths	17¾ in x 10 in	20L004	6

3M

1CJ55

Doodleduster Dusting System

DUST HEADS

3M Doodleduster features a flexible swivel and low-profile dust head. Clips make cloth attachment and removal easy. Use threaded handle (see page 1541).

DUSTING CLOTH

Microfiber disposable cloth traps dust and dirt without chemical treatment. 250 perforated sheets per roll.

Description	Item No.
25 in Doodleduster Dust Head	1CJ56
38 in Doodleduster Dust Head	1CJ55
Doodleduster Dusting Cloth, 1 Roll	3UZ78

TOUGH GUY

2DCC4

Dust Mop Treatment

OIL-BASED

Emulisifiable treatment cleans, polishes, and protects in one step. For all composition hard surfaces. No CFCs.

WATER-BASED

Creates a slip-resistant surface when applied to dusting tools. Dusts, cleans, and polishes in one step. For wood surfaces, sealed cement, vinyl, linoleum, and resilient tile floors. No CFCs.

Description	Size*	Item No.
Oil-Based Aerosol	16 oz	2DCC6 *
Water-Based Aerosol	20 oz	2DCC4 *
Water-Based Liquid	32 oz	2CYH3

** Size refers to container size. Weight of product may vary.*

3M

Baseboard Cleaning Systems

3M DOODLEBUG PAD HOLDER KITS

Includes holder and one white and one brown pad.

Swivel Pad Holder Kit—For hard-to-reach areas. Threaded for attachment to standard broom handles (sold separately on page 1541).

Handblock Pad Holder Kit—Has a built-in handle with hook-and-loop bottom to hold pads firmly in place.

3M DOODLEBUG PADS

White—For cleaning delicate surfaces.

Blue—For medium-duty cleaning and scrubbing.

Brown—For tough jobs like removing finish and wax buildup from baseboards and floor edges.

Black—For extra heavy-duty cleaning and stripping.

3U097

Description	Color	Item No.	Pkg. Qty.
Doodlebug Pad Holder Kits			
Swivel Pad Holder Kit	Orange	3U097	1
Handblock Pad Holder Kit	Brown	1CJ79	1
Doodlebug Pads			
Light-Duty Pad	White	3U099	5
Medium-Duty Pad	Blue	3U098	5
Heavy-Duty Pad	Brown	1CJ85	5
Extra Heavy-Duty Pad	Black	3U100	10

TOUGH GUY impact

36G240

Mopster Bucketless Mopping System

Eliminates the need for conventional mop buckets and wringers and reduces water usage and labor costs. Complete system includes 18" hook-and-loop frame, disposable microfiber pad, 32 oz. dispensing bottle, and 54" handle. Components are all interchangeable and removable. Bottle includes a large, easy-to-fill tethered cap with an integrated hanger. Hanger makes it easy to store multiple bottles on a cart.

Description	Brand	Item No.
Bucketless Handle	Tough Guy	36G240
Replacement Bottle	Impact	36G241

TOUGH GUY

Baseboard Cleaning Systems

PAD HOLDER KITS

Provide even pressure over the surface of the pad. Swivel pad holder accepts threaded, tapered, or straight 15⁄16" broom handles (sold separately on page 1541). Include holder and 2 pads (1 white, 1 brown).

PADS

White—For light cleaning on delicate surfaces.

Blue—Medium-duty where very abrasive action may not be required or may cause damage.

Brown—Heavy-duty where very abrasive action is necessary.

Black—Extra heavy-duty for tough jobs like removing rust stains or heavy dirt buildup.

6XE75

Description	Color	Item No.	Pkg. Qty.
Pad Holder Kits			
Swivel Pad Holder Kit	Blue	6XE75	1
Swivel Pad Holder Only	Blue	6XE76	1
Hand Pad Holder Kit	Blue	6XE77	1
Pads			
Light-Duty Pad	White	6XE74	5
Medium-Duty Pad	Blue	6XE72	5
Heavy-Duty Pad	Brown	6XE73	5
Extra-Heavy-Duty Pad	Black	6XE71	5

Looped-End Dust Mops

TOUGH GUY COTTON SYNTHETIC

Designed for healthcare use. 10-ply construction reduces linting, increases coverage, and extends wear. Feature cotton synthetic blend yarn. All heads fit standard frames and handles.

RUBBERMAID SYNTHETIC

Has longest product life versus cotton or blend mops. Slip-on/slip-through backing. Contains up to 60% PET plastic.

TOUGH GUY ECHO

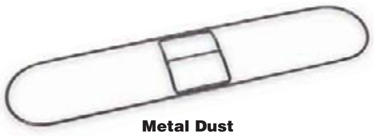
Manufactured from recycled soda bottles. Environmentally preferred construction contains 100% recycled content (30% postconsumer, 70% post-industrial). Designed for use on hard-surface floors. Fast-drying.

Yellow Cotton Synthetic 1TZC3

Blue Synthetic 1YVB9

Green Echo 3XFZ6

Description	YELLOW COTTON SYNTHETIC Item No.	BLUE COTTON SYNTHETIC Item No.	BLUE SYNTHETIC Item No.	GREEN ECHO Item No.
18 in Dust Mop	1TZB9	1TZC4	—	—
24 in Dust Mop	1TZC1	1TZC5	1YVB9	3XFZ6
36 in Dust Mop	1TZC2	1TZC6	1YVC1	3XFZ7
48 in Dust Mop	1TZC3	1TZC7	—	3XFZ8



Metal Dust Mop Frame 1TZG3

Wood Dust Mop Handle 1TZG8

Plastic Dust Mop Frame 1NFF7

Fiberglass Dust Mop Handle 1TZG9

Dust Mop Frames and Handles

FRAMES

Metal—Frames resist rust. For use with handles 1TZG8 and 1TZG9 below.

Plastic—High-impact copolymer construction for correctional and heavy-use applications. 1⁄8 in body thickness. Will not rust. Black color. For use with handle 1NFF5 below.

HANDLES

Adjust from free-swivel action to rigid position.

Mop Connection Type	Frame Width	Frame Depth	Item No.
Metal Dust Mop Frames			
Slide On	18 in	5 in	1TZG2
Slide On	24 in	5 in	1TZG3
Slide On	36 in	5 in	1TZG4
Slide On	48 in	5 in	1TZG5
Slide On	60 in	5 in	1TZG6
Slide On	72 in	5 in	1TZG7
Plastic Dust Mop Frames			
Screw On	18 in	5 in	1NFF7
Screw On	24 in	5 in	1NFF8
Screw On	36 in	5 in	1NFF9
Screw On	48 in	5 in	1NFG1
Dust Mop Handle, Wood, 60 in L			
Clip On	—	—	1TZG8
Dust Mop Handle, Fiberglass, 60 in L			
Clip On	—	—	1TZG9
Threaded Handle, Plastic, 58 in L			
Screw On	—	—	1NFF5

Launderable Cotton 1TZC8

Cotton 1TZD5

Cotton Kit 1TZD9

Cotton Synthetic 1TZE3

Disposable Cotton Synthetic 1TZE7

Disposable Lightweight Cotton Dust Roll 1TZF6

Cut-End Dust Mops

Fit standard dust mop frames and handles.

Echo—Manufactured from recycled soda bottles. Environmentally preferred construction contains 100% recycled content (30% post-consumer, 70% post-industrial). Fast-drying.

Launderable Cotton—10-ply cotton; features slot pocket construction.

Cotton—10-ply cotton; features slot pocket construction. Mop kits include white yarn/white backing mop head, frame, and handle.

Cotton Synthetic—4-ply cotton synthetic slit back with ties dust mop.

Disposable Cotton Synthetic—4-ply cotton synthetic dust mops feature slot pocket construction.

Disposable Lightweight Cotton—4-ply cotton mops feature slit back construction. 1TZF6 Cut-to-Length Roll features a slide-in pocket every 8 in so it can be cut to fit frames of any length. Includes cutting tool.

Description	Color	Item No.
Echo		
18 in Dust Mop	Green	3XFZ9
24 in Dust Mop	Green	3XGA1
36 in Dust Mop	Green	3XGA2
48 in Dust Mop	Green	3XGA3
Launderable Cotton		
18 in Dust Mop	Blue, White	1TZC8
24 in Dust Mop	Blue, White	1TZC9
36 in Dust Mop	Blue, White	1TZD1
48 in Dust Mop	Blue, White	1TZD2
60 in Dust Mop	Blue, White	1TZD3
72 in Dust Mop	Blue, White	1TZD4
Cotton		
18 in Dust Mop	Blue	1TZD5
24 in Dust Mop	Blue	1TZD6
36 in Dust Mop	Blue	1TZD7
48 in Dust Mop	Blue	1TZD8
Cotton Kits		
24 in Dust Mop Kit	White	1TZD9
36 in Dust Mop Kit	White	1TZE1
48 in Dust Mop Kit	White	1TZE2
Cotton Synthetic		
18 in Dust Mop	White	1TZE3
24 in Dust Mop	White	1TZE4
36 in Dust Mop	White	1TZE5
48 in Dust Mop	White	1TZE6
Disposable Cotton Synthetic		
18 in Dust Mop	Gray, White	1TZE7
24 in Dust Mop	Gray, White	1TZE8
36 in Dust Mop	Gray, White	1TZE9
48 in Dust Mop	Gray, White	1TZF1
Disposable Lightweight Cotton		
18 in Dust Mop	Gray, White	1TZF2
24 in Dust Mop	Gray, White	1TZF3
36 in Dust Mop	Gray, White	1TZF4
48 in Dust Mop	Gray, White	1TZF5
60 in Dust Mop	Gray, White	3XGA4
72 in Dust Mop	Gray, White	3XGA5
Disposable Lightweight Cotton Dust Roll		
5 in-Wide by 40-Ft. Roll	Natural	1TZF6

Microfiber Duster and Handle
1MYE1

Retractable Poly Wool Duster
6DMY4

Premium Ostrich Feather Duster
1MYG3

Dusting Tools

OVERHEAD DUSTERS

Microfiber Dusters—Microfiber duster and sleeve attract dirt. High-pile design gets into small cracks and crevices. Features include a universally adjustable head and telescoping pole. Launderable sleeve ties onto head, with reinforcing rivets to prevent sleeve from backing off.

Poly Wool Dusters—Perfect for cleaning hard-to-reach places. Nonallergenic and washable. 6DMY4 handle extends 52" to 84".

Duster Mitt—High-pile cotton/poly blend sleeve can be used over worker's hand. Ideal for heavy dusting and dusting pipes.

Overhead Dusters—Dusting tools feature 54" plastic handles, and are compatible with Poly/Cotton Sleeve 1MYF8. 1MYF4 has a regular head; 1MYF6 has an angled head.

FEATHER AND LAMBSWOOL DUSTERS

Ostrich Feathers—Washable dusters will not scratch surfaces. Designed for use on furniture, office equipment, and blinds. 1MYG3 and 1MYG5 have premium ostrich feathers.

Lambswool—Designed for wide, flat surfaces such as tabletops and desktops.

Description	L	Brand	Item No.
Overhead Dusters			
Microfiber Overhead Duster and Handle	38 in to 54 in	Tough Guy	**1MYE1**
Duster Replacement Sleeve for 1MYE1	10 ½ in	Tough Guy	**1MYE3**
Poly Wool Duster	23 ½ in	Tough Guy	**6DMY3**
Retractable Poly Wool Extendable Duster	52 in to 84 in	Tough Guy	**6DMY4**
Duster Mitt	10 ½ in	Tough Guy	**1MYF2**
Overhead Duster	34 in to 51 in	Tough Guy	**1MYF4**
Overhead Duster with Anglehead Tool	54 in	Tough Guy	**1MYF6**
Poly/Cotton Duster Sleeve	9 in	Tough Guy	**1MYF8**
Feather and Lambswool Dusters			
Premium Ostrich Feathers	14 in	Tough Guy	**1MYG3**
Premium Ostrich Feathers	21 in	Tough Guy	**1MYG5**
Ostrich Feathers, Brown	14 in	Tough Guy	**1MYG1**
Ostrich Feathers, Black	14 in	Tolco	**3LFN6**
Ostrich Feathers, Brown	30 in	Tough Guy	**1MYG7**
Lambswool	25 in	Tough Guy	**1MYG9**
Lambswool	35 in to 47 in	Tough Guy	**1MYH2**

Lambswool Duster
5DUU0

Microfiber Ceiling Fan Duster
5DUU5

Duster Brush
No 3U452

Polyfiber Cobweb Duster
6DTG5

Pro Flat Duster 75 Wand
4GU50

Dusting Tools

OVERHEAD DUSTERS

Perfect for dusting shelves and other surfaces.

Lambswool Duster—Handle attaches to Unger cone or standard ACME thread. Use with disposable sleeve 5DUU3 or mircofiber sleeve.

Microfiber Ceiling Fan Duster—Unique shape cleans all sizes of ceiling fan blades. Use handheld or attach to telepole to clean high areas. Microfiber sleeve is washable.

Duster Brush—Split-tipped soft poly fibers allow for dusting without scratching. Great for ceilings, moldings, and corners.

OVERHEAD DUSTER WANDS

30"L duster retains its shape to slide between tight spaces. Includes 3 disposable electrostatic dusting sleeves and 1 machine-washable microfiber sleeve. Use wet or dry.

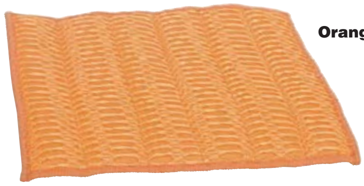
Description	L	Item No.
Overhead Dusters		
Lambswool Flexible Duster	15 in	**5DUU0**
Lambswool Extendable Duster	30 in to 60 in	**5DUU1**
Disposable Duster Sleeves, Pkg. of 50	18 in	**5DUU3**
Microfiber Ceiling Fan Duster	13 in	**5DUU5**
Duster Brush	12 in	**3U452**
Polyfiber Cobweb Duster	11 in	**6DTG5**
Overhead Duster Wands		
Pro Flat Duster 75 Wand	30 in	**4GU50**
Replacement Microfiber Sleeve for 4GU50	25 in	**4GU51**

Duster Wand
5MU95

Overhead Duster Wands

Feature electrostatically charged dusting head. Can be attached to flexible wand for simple dusting of hard-to-reach, irregular surfaces. Quick-connect mechanism converts wand into high duster to effectively dust hard-to-reach areas when used with mop handles (sold separately). Include one launderable sleeve.

Description	L	Item No.
Duster Wand, Green	20 in	**5MU95**
Green Replacement Duster Sleeve for 5MU95	22 7⁄10 in	**1PE54**
Duster Wand, White	20 in	**3HKC3**
White Replacement Sleeve for 3HKC3	20 in	**3HKC4**


Orange Microfiber Cloth
3ZNE3

Green Microfiber Mitt
1TTX9

Microfiber Cleaning/Dusting Cloths and Mitts

1TTX9 and 1TTY1 are for general purpose cleaning; tackle tough jobs yet gentle enough for delicate surfaces. Leave no residual lint, streaks, or scratches. Launderable.

Description	Cleaning Cloth Duty Rating	Size	Item No.	Pkg. Qty.
Antibacterial				
Orange Microfiber Cloth	Heavy Duty	7 in x 9 in	**3ZNE3**	1
Orange Microfiber Cloth	Medium Duty	12 in x 15 in	**3ZNE4**	2
Dusting and Polishing Mitts				
Green Microfiber Dusting Mitt	—	9½ x 5"	**1TTX9**	1
Blue Microfiber Polishing Mitt	—	9½ x 5"	**1TTY1**	1

Handles are sold separately on page 1541 and on Grainger.com®.

3U767

Fine-Sweeping Floor Brooms

Brooms provide scratch-free sweeping on wood, ceramic tile, linoleum, smooth concrete, marble, and polished surfaces. Flagged tips pick up small particles. For use with threaded handles. 3U767 includes a solid metal brace.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Flagged Synthetic	Plastic	18 in	Green	3 in	3U766
Flagged Synthetic	Plastic	24 in	Green	3 in	3H388
Flagged Synthetic	Wood	36 in	Green	3 in	3U767

4KNA5

4KNA2

4KNC8

Smooth Surface Floor Brooms

For use with threaded handles. 4KNA4 and 4KNA5 have flagged tips for picking up fine dust and dirt. 4KNA6 and 4KNA2 are for general purpose sweeping on semismooth surfaces.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Fine Sweeping					
Polystyrene	Wood	18 in	Gray	3 in	4KNA4
Polystyrene	Wood	24 in	Gray	3 in	4KNA5
Tampico	Wood	14 in	Black	3 in	4KNA6
Tampico	Wood	16 in	Black	3 in	4KNA2
Horsehair	Wood	18 in	Black	3 in	4KMZ9
Horsehair	Wood	24 in	Black	3 in	4KNA3
Horsehair, Polypropylene	Wood	24 in	Black	3 in	4KNA1
Medium Sweeping					
Polypropylene	Wood	16 in	White	4 in	4KNC8

5UYF6

Perma-Sweep Floor Brooms

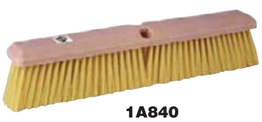
Acid- and bacteria-resistant fibers provide superior durability. Suitable for sweeping fine dust and dirt on smooth surfaces, and can also be used for wet or dry sweeping applications. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polystyrene	Plastic	14 in	Gray	3 in	5UYF7
Polystyrene	Plastic	18 in	Gray	3 in	5UYF6

2PY48

53UJ43

2PYV4



1A840

General Purpose Floor Brooms

Brooms are suitable for sweeping both wood and tile. For use with threaded handles. 53UJ42 and 53UJ43 include a 60" steel handle.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Brand	Item No.
Tampico	Wood	12 in	Black	3 in	Tough Guy	1DU75
Tampico	Wood	18 in	Brown	3 in	Tough Guy	1A842
Unflagged Tampico	Wood	24 in	Black	3 in	Tough Guy	2PY48
Polypropylene	Wood	18 in	Black	3 in	Tough Guy	2PYV4
Polypropylene	Wood	24 in	Black	3 in	Tough Guy	2PYV5
PET, Polypropylene	Plastic	18 in	Green	3 ⅛ in	Quickie	53UJ42
PET, Polypropylene	Plastic	24 in	Green	3 ⅛ in	Quickie	53UJ43
Synthetic	Plastic	18 in	Yellow	3 in	Tough Guy	1A840
Synthetic	Plastic	24 in	Yellow	3 in	Tough Guy	1A841
Synthetic	Wood	36 in	Yellow	3 in	Tough Guy	3U768

Fine-Sweeping Floor Brooms

Brush, handle and brace combo removes even fine dirt and dust. Ideal for highly polished or waxed floors. Two threaded handle holes on either side of block allow use of alternating sides for even wear. Angle brace adds support and stability.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polyethylene	Wood	36 in	Gray	3 in	498Z08

3-in-1 Floor Broom

Combine the best features of fine, medium, and heavy floor brooms in one product. Synthetic bristles have pitched angle for sweeping on all types of floor surfaces. Shorter, heavy bristles in front sweep heavy debris, and longer, fine/medium bristles in back sweep away fine dust and particles. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Plastic	18 in	Blue	2 in to 2⅜ in	1YTH5

4KNC2

4GU67

4GU68

2PYV3

Contractor Brooms

Synthetic fibers provide extra strength and durability. Can be used in wet and dry applications and with detergent and water. Acid- and fungus-resistant fibers last longer than traditional brooms. For use with contractor bolt-on handle 4GU69, see page 1541.

Silver and Black/Gray Polypropylene Bristles—For sweeping up fine dust and dirt on smooth surfaces.

Black/Gray Flagged Synthetic Bristles—For picking up heavy dirt and the fine dirt left behind. Includes a heavy-duty, wide-leg brace.

Maroon Polypropylene Bristles—For sweeping up heavy dirt and debris on very rough surfaces.

Blue Polypropylene Bristles—Stiff bristles are able to sweep heavily caked dirt and debris on very rough surfaces.

Black/Brown Palmyra Bristles—For sweeping heavy debris. Broom comes with a heavy-duty brace.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Wood	24 in	Silver	3 in	4KNC2
Polypropylene	Wood	30 in	Black/Gray	3 in	4KNC3
Flagged Synthetic	Wood	24 in	Black/Gray	3 in	4GU67
Polypropylene	Wood	24 in	Maroon	3 in	4KNC4
Polypropylene	Wood	24 in	Blue	3 in	4GU68
Polypropylene	Wood	30 in	Blue	3 in	4KNC5
Palmyra	Wood	24 in	Black/Brown	4 in	2PYV3

Handles are sold separately on page 1541 and on Grainger.com®.

1A847

2PYV6

2PY50

Garage Push Broom Heads

Use to sweep or scrub heavy dirt from concrete, rough wood, blacktop, factory floors, or brick surfaces. For use with threaded handles.

Brown and Maroon Synthetic Fill—Durable nylon works well in wet or dry conditions.

Brown Palmyra Fill—Stiff texture is suitable for use in factories, mills, and commercial buildings.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Synthetic	Plastic	18 in	Brown	3 in	**1A846**
Synthetic	Plastic	24 in	Brown	3 in	**1A847**
Synthetic	Wood	24 in	Maroon	3 in	**2PYV6**
Synthetic	Wood	36 in	Maroon	3 in	**3U772**
Palmyra	Wood	18 in	Brown	4 in	**1A844**
Palmyra	Wood	24 in	Black, Brown	4 in	**2PY50**

2PYV7

3A325

Coarse-Sweeping Street Push Broom Heads

3A324

For heavy-duty sweeping, scrubbing, or moving dirt and debris on streets and in parking lots. Use in factories, garages, and barns. Have flared ends to sweep close to curbs and walls. For use with tapered handles. 3A324 and 4KNC7 have extra-stiff natural fiber bristles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Polypropylene	Wood	16 in	Orange	5 ¼ in	**2PYV7**
Polypropylene	Wood	16 in	Brown	5 ¼ in	**3A325**
Palmyra	Wood	16 in	Brown	6 in	**3A324**
Palmyra	Wood	16 in	Brown	6 in	**4KNC7**

3U776

Wire Center-Fill Push Broom Heads

Tempered steel center bristles provide long life, flexing action, and aggressive debris removal. Sweep caked-on dirt from concrete, rough wood, asphalt, and brick surfaces. For use with threaded handles.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Tampico, Wire Center	Wood	18 in	Black	3 in	**3U775**
Tampico, Wire Center	Wood	24 in	Black	3 in	**3U776**

Shown on Broom (Not Included)

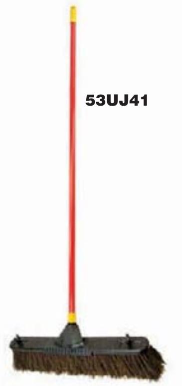
Brace For Hardwood Block Brooms

Steel brace wraps around handles and attaches to block with wood screws. Provides extra support for handle and block to help increase life of brush. For all handle sizes.

L	W	Item No.
12 ½ in	6 ⅛ in	**1VAD2**

450Y49

498Z18



53UJ41

Push Broom Heads and Handles

Broom heads with durable polypropylene bristles can be used on smooth and rough surfaces. Braced broom blocks offer support and stability. 450Y48 and 450Y49 have angled sides on the broom head to catch more debris. The molded handles are lightweight and offer a built-in hang hole. 498Z18 features an assembled steel brace with a die-cast aluminum connector.

53UJ41 palmyra fill has a stiff texture and is suitable for use in factories, mills, and commercial buildings. Includes a powder-coated steel handle.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Broom Handle L	Item No.
Medium-Duty						
Polypropylene	Plastic	18 in	Black	2 ¾ in	58 in	**450Y48**
Polypropylene	Plastic	36 in	Black	2 ¾ in	58 in	**450Y49**
Heavy-Duty						
Polypropylene	Wood	36 in	Gray	3 in	60 in	**498Z18**
Palmyra	Plastic	24 in	Brown	4 ⅛ in	60 in	**53UJ41**

6YTC4

6YTD1

6YTC8

6YTD0

Recycled/Sustainable Material Push Broom Heads

Made from all recycled or sustainable raw materials. Handles are made from durable bamboo, and fill material is made of recycled water bottles. Foam blocks are designed with recycled plastics and rubber wood blocks are made from the wood of rubber trees.

Bristle Material	Block Material	Block Size	Bristle Color	Trim L	Item No.
Fine Sweeping					
Recycled PET	Plastic	24 in	Black, Silver	3 in	**6YTC4**
Recycled PET	Wood	24 in	Green	3 in	**6YTC7**
Medium Sweeping					
Recycled PET	Plastic	24 in	Green	3 in	**6YTC5**
Recycled PET	Wood	24 in	Blue	3 in	**6YTC8**
Coarse Sweeping					
Recycled PET	Plastic	24 in	Maroon	3 in	**6YTC6**
Recycled PET	Wood	24 in	Maroon	3 in	**6YTC9**
Street Broom					
Recycled PET	Plastic	9 in	Yellow	7 in	**6YTD1**
Duo Sweep—1 Straight and 1 Angled Handle Hole					
Recycled PET	Wood	16 in	Black	6 in	**6YTD0**

Floor Sweeping Compounds

Compounds are sprinkled on floors to combat everyday dirt. These compounds keep dust and dirt confined to floor areas during cleanup, diminishing the spread and inhalation of dust. Gritted sweeping compounds act as an abrasive, helping to loosen grime and dirt stuck to floors while sweeping floors at construction sites, warehouses, or garages. Gritless sweeping compounds do not include abrasives and will not scratch or mark finished floors in schools, museums, and gyms.

Contains Grit	Container Type	Container Size	For Floor Type	Color	Brand	Item No.
Oil Base						
Yes	Box	50 lb	Concrete, Wood	Green	Tough Guy	**33NU42**
Yes	Box	100 lb		Green	Tough Guy	**24WJ58**
Yes	Box	100 lb		Red	Tough Guy	**24WJ59**
Yes	Drum	500 lb	Ceramic, Concrete, Wood	Red	Zep	**54ZK23**
No	Box	50 lb	Concrete, Wood	Red	Tough Guy	**24WJ57**
No	Drum	100 lb	Asphalt, Linoleum, Rubber,	Green	Zep	**54ZK25**
No	Drum	200 lb	Terrazzo, Porcelain	Green	Zep	**54ZK26**
No	Drum	250 lb	Ceramic, Concrete, Wood	Red	Zep	**54ZK28**
Glycerin Base						
Yes	Box	50 lb	Concrete, Terrazzo, Porcelain, Wood	Green	Tough Guy	**33NU40**
Yes	Box	100 lb		Green	Tough Guy	**33NU39**
No	Box	50 lb		Green	Tough Guy	**33NU41**
No	Drum	100 lb		Green	Tough Guy	**33NU38**
Wax Base						
Yes	Drum	250 lb	Concrete, Porcelain, Wood, Vinyl	Red	Tough Guy	**48RF44**
No	Box	50 lb	Marble, Rubber, Terrazzo, Porcelain	Green	Tough Guy	**33NU44**
No	Drum	100 lb	Concrete, Terrazzo, Porcelain, Wood	Green	Tough Guy	**33NU43**

24WJ58

54ZK26

Synthetic-Fill and Natural-Fiber Brooms

SYNTHETIC-FILL BROOMS

Lobby

Polypropylene bristles sweep efficiently and small head design fits easily in any corner.

Angle

Angled trim reaches under low cabinets and into other hard-to-reach places. Durable flagged fill. 1NFG2 intense use broom is an all-plastic broom with internal honeycomb style fiber handle that is hot melted and plugged for additional strength and security. Suitable for correctional facilities.

NATURAL-FIBER BROOMS

100% Corn Fiber

Use for everyday sweeping of fine dirt and debris on most surfaces. Multistitched to maintain broom shape and performance.

Corn Fiber Blend

1VAC3 intense use broom has no-wire construction.

Description	Bristle Color	Overall L	Trim L	Sweep Face	Item No.
Synthetic-Fill					
Lobby Broom	Black	35 in	4 in	5 ⅞ in	**1VAC2**
Floor Broom	Black	56 in	11 in	10 in	**3ZJE1**
Angle Broom, Aluminum Handle	Silver	54¾ in	6 in	11 in	**6MPT8**
Angle Broom, Steel Handle	Silver	54¾ in	6 in	11 in	**6MPT9**
Angle Broom, Wooden Handle	Yellow	56 in	7 ½ in	12 in	**1VAC4**
Angle Broom, Vinyl-Coated Metal Handle	Yellow	56 in	7 ½ in	12 in	**1VAC5**
Intense Use, Correctional Safe Angle Broom	Black	61 in	6 in	9 in	**1NFG2**
Intense Use, Correctional Safe Angle Broom Head Only	Black	—	6 in	9 in	**1NFG3**
Natural-Fiber					
100% Corn Fiber					
Heavy-Duty Warehouse Broom	Tan	56 in	18 in	12 in	**1VAB5**
Heavy-Duty Warehouse Broom	Black	56 in	18 in	12 in	**3ZJD4**
Medium-Duty Janitor Broom	Tan	56 in	18 in	12 in	**1VAB6**
Medium-Duty Janitor Broom	Black	56 in	18 in	12 in	**3ZJD5**
Household Standard Broom	Tan	56 in	17 in	11 in	**1VAB7**
Household Standard bBroom	Black	56 in	17 in	11 in	**3ZJD6**
Lobby Broom	Tan	39 in	10 ½ in	7 in	**34F929**
Lobby Broom	Tan	32 in	10 in	7 in	**34F930**
Whisk Broom	Tan	12 in	10 in	7 ½ in	**34F931**
Corn Broom Head	Natural	18 in	9 ¾ in	12 in	**6PVY1**
Corn Broom Head	Natural	18 in	10 in	13 in	**6PVY2**
Corn Fiber Blend					
Medium-Duty Warehouse Broom	Tan	56 in	18 in	11 ½ in	**1VAC1**
Medium-Duty Warehouse Broom	Black	56 in	18 in	11 ½ in	**3ZJD7**
Medium-Duty Janitor Broom	Tan	56 in	17 in	11 ½ in	**1VAB9**
Medium-Duty Janitor Broom	Black	56 in	17 in	11 ½ in	**3ZJD8**
Household Standard Broom	Tan	56 in	16 in	11 ½ in	**1VAB8**
Household Standard Broom	Black	56 in	16 in	11 ½ in	**3ZJD9**
Intense Use Broom	Tan	56 in	17 in	12 in	**1VAC3**

Synthetic Fill Lobby Broom 1VAC2

Synthetic Fill Angle Broom 1VAC5

100% Corn Fiber Heavy-Duty Warehouse Broom 1VAB5

Threaded Acme Hardwood Tip 1A839

Tapered Bamboo Tip 3ZHY2

Tapered Fiberglass Tip w/Adapter 1VAC8

Contractor Hardwood Tip w/Metal Attachment 4GU69

Handles

THREADED ACME TIP

For use with floor and garage brooms, industrial coatings, and general purpose wash brushes.

TAPERED TIP

For use with street brooms, floor/deck scrub brushes, squeegees, and window wash brushes.

CONTRACTOR

Hardwood handle with metal attachment for bolt-on bracket. For use with Contractor Brooms, sold on page 1539.

Description	L	Dia.	Tip W	Tip L	Item No.
Threaded Acme Tip					
100% Bamboo Wood	60 in	15⁄16 in	0.94 in	1 in	**3ZHY4**
	60 in	15⁄16 in	0.94 in	1 in	**3ZHY3**
Bamwood Handle/Wood Tip	60 in	15⁄16 in	0.7 in	1 in	**1VAJ8**
Bamboo Handle/Metal Tip	60 in	15⁄16 in	0.7 in	1 in	**1VAJ9**
Hardwood Tip/Hardwood Handle	60 in	15⁄16 in	0.7 in	1 in	**1A839**
	60 in	1⅛ in	—	1 in	**3U790**
White Fiberglass Broom Handle	60 in	15⁄16 in	0.7 in	1 in	**1VAC6**
Plastic Tip/Aluminum Handle	60 in	1 in	—	¾ in	**1YTH2**
Plastic Tip/Hardwood Handle	60 in	15⁄16 in	0.7 in	1 in	**3H389**
Plastic Tip/Fiber Threaded Intense Use Handle	58 in	15⁄16 in	0.7 in	—	**1NFF5**
Replacement Threaded Tip for No. 1NFF5	3 ¼ in	1 in	—	3¼ in	**1NFH3**
Hardwood Handle/Metal Tip	60 in	15⁄16 in	—	1 in	**3H384**
Metal Tip/Hardwood Handle	96 in	1⅛ in	⅝ in	2⅝ in	**5UYF9**
	120 in	1⅛ in	⅝ in	2⅝ in	**5UYF8**
Wood Handle/Tip, For Use With Brooms, Brushes, Squeegees	72 in	1⅛ in	—	1 in	**32UU95**
Bamwood Handle/Tip, For Use With 6PVX9, 6PVY0	38 in	1⅛ in	—	—	**6PVY3**
Bamwood Handle/Tip, For Use With 6PVY1, 6PVY2	38 in	15⁄16 in	—	—	**6PVY4**
Metal Handle/Tip, For Use With Masonry, Roof Brushes, Street Brooms, Floor and Deck Brushes, and Squeeges.	48 in	15⁄16 in	¾ in	⅞ in	**15Y109**
	60 in	15⁄16 in	¾ in	⅞ in	**15Y111**
Tapered Tip					
100% Bamboo Wood	60 in	1⅛ in	1.125 in	1 in	**3ZHY2**
Hardwood Tip/Hardwood Handle	60 in	1⅛ in	—	—	**3A326**
	96 in	1⅛ in	⅝ in	2⅝ in	**5UYG0**
Tapered Tip w/Adapter					
White Fiberglass Broom Handle	60 in	15⁄16 in	0.7 in	1 in	**1VAC8**
Contractor					
Hardwood	60 in	1⅛ in	—	—	**4GU69**

Dust Pans

PLASTIC

Lobby—4YJ48 has rear wheels for mobility. 1VAJ5 includes a wind-break cover to help prevent dust and debris from coming out of the hopper.

1-Pc. Molded—Molded plastic maintains a straight edge. Color-coded dust pans help minimize cross contamination between work areas.

METAL

Lobby—Self-opening and closing lid. 30" handle.

Janitor—Durable, 1-pc., 20-ga. steel with corrugated ribs for rigidity and strength.

ALUMINUM

Rolled aluminum handle for easy storage.

1VAJ6

2VEY1

5W640

Dust Pan Type	Overall Dust Pan W	Overall Dust Pan D	Dust Pan Handle L	Color	Item No.
Plastic					
Lobby with Lid					
Long Handled	12 ½ in	11 in	31 in	Black	**1VAJ5**
Lobby					
Long Handled	11 5/16 in	12 ¾ in	27 ½ in	Black	**4YJ48**
	12 ½ in	11 7/16 in	31 in	Black	**1VAJ6**
	13 ¾ in	13 ¾ in	—	Black	**22F182**
1-Pc. Molded					
Handheld Standard	12 in	12 in	5 ⅞ in	Black	**1VAJ7**
	12 in	12 in	5 ⅞ in	Red	**2VEY1**
	12 in	12 in	5 ⅞ in	White	**2VEY2**
	12 in	12 in	5 ⅞ in	Blue	**2VEY3**
	12 in	12 in	5 ⅞ in	Yellow	**2VEY4**
	12 in	12 in	5 ⅞ in	Green	**2VEY5**
	12 ¼ in	8 ¼ in	4 ½ in	Black	**5W636**
	16 in	18 ½ in	6 ⅜ in	Black	**1VAK1**
Jumbo Dust Pan	21 ¾ in	—	4 ½ in	Black	**9CD34**
Metal					
Lobby					
Long Handled	12 ½ in	9 ⅞ in	—	Black	**5W640**
Janitor					
Handheld Standard	16 in	16 in	—	Black	**1CH74**
	12 in	12 in	—	Black	**5W639**
Aluminum					
Handheld Standard	17 in	17 in	—	Silver	**4YRE7**

1CH74

4YRE7

59JM31

59JM15

59JM32

Lobby Broom and Dust Pan Sets

Help keep public areas neat and clean with these broom and dust pan sets. The durable polypropylene bristles can maintain their appearance even after repeated use. Tough Guy sets come with a metal handle. Rubbermaid set is acid- and chemical-resistant and includes a vinyl handle.

Description	Broom Handle L	Trim L	Sweep Face	Brand	Item No.
Broom with Lidded Dustpan	31 in	4 in	5⅞ in	Tough Guy	**59JM31**
Broom with Open Dustpan	28 in	5 in	7 ⅞ in	Rubbermaid	**59JM15**
Broom with Open Dustpan	31 in	4 in	5⅞ in	Tough Guy	**59JM32**

Scrub Brushes

SQUARE END

For general purpose cleaning and scrubbing. Resists water, acid, and alkali solutions.

CURVED BLOCK

Molded plastic block provides a comfortable grip.

IRON STYLE

Handle keeps hands out of cleaning solutions and water.

NAIL CLEANING

Easy grip block for scrubbing with hand cleaners.

POINTED ENDS

For general cleaning and scrubbing with a variety of cleaning solutions. Pointed ends allow for brushing close to walls and into corners.

1VAD7

1VAD8

1VAD9

1VAE1

2PYV9

Description	Brush L	Block Material	Trim L	Item No.
Square End	8 in	Wood	1 in	**1VAD7**
Curved Block	6 7/10 in	Plastic	1 in	**1VAD8**
Iron Style	6 in	Plastic	1 ½ in	**1VAD9**
Nail Cleaning	4 7/10 in	Wood	⅝ in	**1VAE1**
Pointed Ends	9 in	Wood	1 ⅛ in	**2PYV9**

1ECL5

Mop and Broom Racks

Feature spring-activated rubber cams mounted on plated 304 stainless steel retainers. Mop or broom is held in place by their own weight. Backplate constructed of 304 22-ga. steel with architectural satin finish. Mounting screws included. 2¾"D.

Holds	L	W	Item No.
3 Brooms	26 in	4 ¾ in	**1ECL4**
4 Brooms	36 in	4 ¾ in	**1ECL5**

2KVF5

2KVF8

Food-Grade Scrub Brushes

Feature poly block construction and FDA-approved nylon filaments designed to clean tanks, vessels, walls, and floors in food grade applications. 5" brush width; 1¾" trim length. Use with Threaded Fiberglass Handle 2KVF8, sold separately. 60"L handle features durable honeycomb construction.

Description	Brush L	Item No.
Scrub Brushes		
Soft	7 ½ in	**2KVF5**
Medium	7 ½ in	**2KVF6**
Stiff	7 ½ in	**2KVF7**
60"L Handle		
¾" Acme Thread	—	**2KVF8**

Handles are sold separately on page 1541 and on Grainger.com®.

Baseboard Brush

Block is made from a solvent-resistant synthetic foam. Use with 15⁄16" threaded Acme tip handles, sold separately on page 1541.

Overall L	Item No.
5 ½ in	**1VAF2**

Carpet/Upholstery Spot Brush

Durable synthetic bristles are moisture-resistant. For use on stained carpet, upholstery, and floors.

Overall L	Trim L	Item No.
8 ½ in	⅝ in	**1VAF1**

5PE64

9WLF1

26" Ergo Toilet Bowl Brush Systems

Ergonomic kits include brush holder, a 26 in handle and two cleaning heads. 5PE64 includes 2 replaceable brush heads, 9WLF1 includes 2 replaceable swab heads. Holder hangs on cart or stands freely. Extra-long handle prevents bending and stooping.

Description	Bristle Material	Handle Material	Bristle Color	Brush Length	Handle Length	Item No.	Pkg. Qty.
Toilet Bowl Brush System	Nylon	Plastic	Red	2 in	24 in	**5PE64**	1
Toilet Bowl Brush System	Polyester	Plastic	White	3 ½ in	22 ½ in	**9WLF1**	1
Replacement Brush Heads for 5PE64, Red						**2XE26**	2
Replacement Swab Heads for 9WLF1, White						**1NXF7**	2

1VAE2

1VAE4

1VAE6

Utility Brushes

WHITE NYLON
Utility scrub brushes will not absorb odors or water. For high-temperature cleaning and hospital use.

MAROON SYNTHETIC
Resist acid, alkali, and water. For scrubbing cans, pots, and tubs.

BEIGE TAMPICO
Retains fluids for liquid transfer to work surface. Chemical- and water-resistant handle will not warp or crack.

Description	Handle Material	Overall L	Item No.
White Nylon	Polypropylene	8 in	**1VAE2**
White Nylon	Polypropylene	20 in	**1VAE3**
Maroon Synthetic	Polypropylene	8 ½ in	**1VAE4**
Maroon Synthetic	Polypropylene	20 in	**1VAE5**
Beige Tampico	Foam	20 in	**1VAE6**

1VAE7

1VAE8

Window Wash Brushes

Synthetic brush bristles are solvent resistant and will not rot or mildew. 2.5" trim length. 1VAE7 uses a tapered handle. 1VAE8 uses a tapered or threaded handle. Handles sold separately on page 1541.

Description	W	Block Material	Item No.
Standard Window Wash Brush	2 ½ in	Polystyrene/Wood	**1VAE7**
Round Window Wash Brush	4 ½ in	Polystyrene	**1VAE8**

Toilet Bowl Brushes and Caddy

White Tampico Bowl Brush—Handle features string hole. 2" trim length.

Contoured Bowl Brush—Long handle provides easy access to rim of toilet bowl. Nonscratching, acid- and alkali-resistant fill.

Correctional Bowl Brush—All-plastic brush will not rust or break. Flexible handle and heavy-duty bristles make it suitable for institutional and correctional applications.

Cone Bowl Brush—Self-wringing cone removes excess liquids. Leakproof cone is friction-fit to a heavy-duty round handle.

Deluxe Toilet Bowl Brush—Offers easy cleanups. Acid-resistant polypropylene strands.

Toilet Bowl Caddy—Friction-fit compartment snugly holds 32-oz. bottle. Hinged lid hides mop and contains corrosive fumes. Bottle and toilet brush not included.

3A349

1VAE9

Shown in both use and wringing positions
2U289

1CG56

Description	Bristle Material	Handle Material	Brush Length	Handle Length	Overall Length	Item No.
White Tampico Bowl Brush	Coco Fiber	Plastic	6 in	14 ⅝ in	20 in	**3A349**
Contoured Bowl Brush	Nylon, Synthetic	Wood	2 in	19 in	21 in	**1VAE9**
Correctional Toilet Brush	Plastic	Plastic	3 in	12 in	15 in	**1NFG8**
Cone Bowl Brush	Polypropylene	Plastic	2 in	13 in	14 in	**2U289**
Deluxe Toilet Bowl Brush	Fiber	Plastic	2 in	12 in	14 in	**2U288**
Toilet Bowl Caddy	Not Included	Plastic	Not Included	5 in	8 in	**1CG56**

Handles are sold separately on page 1541 and on Grainger.com®.

1YXC3

1YXC2

1YXC8

1YXC5

Roofing, Cement, and Masonry Brushes

ROOFING

Brushes will spread roof tars and coatings, plus apply cement.

CEMENT FINISHING

Use with newly poured cement to create a textured surface. Can also apply coatings on asphalt or concrete.

MASONRY

Apply cement and liquid waterproofing materials easily. Acid masonry brush works well with Kalsomine, acids, and water repellents.

Description	Item No.
Roofing	
2"L White Tampico Fill, 7" Block	2PYW3
2½"L White Tampico Fill, 7" Block	1YXC1
White Tampico Fill, 6¼" Block	1YXC3
White Tampico Fill, 8¾" Block	1YXC4
Polypropylene Fill, 7" Block	1YXC2
Cement Finishing	
Polypropylene Fill, 24" Block	1YXC8
Horsehair Fill, 24" Block	1YXC9
Masonry	
Tampico Fill, 7" Block	2PYW2
Tampico Fill, 6½" Block	2PYW1
Solvent-Resistant Polypropylene Fill, 6" Block	1YXC5
White Tampico Fill, 6½" Block	3A340
White Tampico Fill, 7" Block	1YXC6
Acid Brush White Tampico Fill, 8" Block	1YXC7

1VAD4

3U780

1DU74

Floor/Deck Scrub Brushes

DUAL SURFACE

Synthetic bristles for scrubbing floor and wall surfaces. Use with threaded tip handle, sold separately on page 1541.

SWIVEL

U-joint design is suitable for hard-to-reach detail cleaning. Use with threaded tip handle, sold separately on page 1541.

DECK

For general cleaning in either wet or dry applications. Use with tapered or threaded tip handle, sold separately on page 1541.

Description	Bristle Color	Brush L	Brush W	Item No.
Dual Surface				
Brush w/Squeegee	Blue	10 in	4 in	1VAD3
Brush Only	Blue	10 in	4 in	1VAD4
Swivel				
General Scrubbing	Blue	8 in	3 ½ in	3U779
Power Scrubbing	Brown	8 in	3 ½ in	3U780
Deck				
Blue Polypropylene Fill	Blue	10 in	4 in	4KNC6
Crimped Yellow Polypropylene Fill	Beige	10 in	2 ¾ in	3H382
Crimped Yellow Polypropylene Fill	Beige	12 in	2 ¾ in	1DU74
Brown Palmyra Fill	Brown	10 in	1 ¾ in	3H381
Brown Palmyra Fill	Brown	9 in	2 ¾ in	4KNC1
Brown Palmyra Fill	Brown	12 in	2 ¾ in	4KNA8

1A849

3U788

Bench and Counter Brushes

EXTRA-FINE SWEEPING, HORSEHAIR

Scratch-free performance. Deluxe hardwood block with black horsehair fill. Not recommended for wet or oily surfaces.

SMOOTH SURFACE SWEEPING, HORSEHAIR

Black bristles. For clearing light debris from counters and other surfaces.

FINE SWEEPING, TAMPICO

Natural tampico bristles are heat-resistant. Hardwood block resists most chemicals. Light to medium sweeping.

FINE SWEEPING, SYNTHETIC

Flagged tips provide gentle sweeping in dry applications. With green synthetic fill.

MEDIUM SWEEPING, SYNTHETIC

Acid- and alkali-resistant brush for wet or dry use. Foam block has black synthetic fill.

Description	Handle Material	Brush L	Trim L	Item No.
Extra-Fine Sweeping, Horsehair	Wood	9 in	2 ¼ in	1A849
Smooth Surface Sweeping, Horsehair	Wood	8 in	2 ¼ in	4KNA7
Fine Sweeping, Tampico	Wood	8 in	2 ½ in	1DU76
Fine Sweeping, Synthetic	Foam	9 in	2 ½ in	3U788
Medium Sweeping, Synthetic	Foam	9 in	2 ½ in	1NXZ9

1YTC2

White
F8512

Long Handle Tube and Pipe Brushes

TYGON TUBE AND PIPE BRUSH

Clean all types, sizes, and lengths of tubing. Polyester bristles are twisted in flexible galvanized wire to effectively clean tubing.

STAINLESS STEEL STRAIGHT STEM PIPE BRUSHES

Designed to clean straight pipes, elbows, tees, and valves. Feature stiff polyester bristles.

Brush L	Brush Dia.	Handle L	Overall L	▶CHOOSE: Bristle Color	Item No.
Tygon Tube and Pipe Straight Stem Brush with Wire Loop Handle					
5 in	1 in	19 in	24 in	White	1YTC2
Stainless Steel Straight Stem Pipe Brushes with Plastic Handle					
5 in	¼ in	13 in	18 in	Blue, Brown, Green, Red, White, Yellow	F8512
5 in	¼ in	31 in	36 in		F8511
5 in	⅜ in	13 in	18 in		F8510
5 in	⅜ in	31 in	36 in		F8509
5 in	½ in	13 in	18 in	Blue, Brown, Green, Red, Tan, White, Yellow	F8508
5 in	½ in	31 in	36 in		F8507
5 in	¾ in	13 in	18 in	Blue, Brown, Green, Red, White, Yellow	F8506
5 in	¾ in	31 in	36 in		F8463
5 in	1 in	13 in	18 in		F8422
5 in	1 in	31 in	36 in	Blue, Brown, Green, Red, Tan, White, Yellow	F8478
5 in	1 ½ in	13 in	18 in	Blue, Brown, Red, White, Yellow	F8446
5 in	1 ½ in	31 in	36 in	Blue, Brown, Green, Red, White, Yellow	F8445
5 in	2 in	13 in	18 in		F8444
5 in	2 in	31 in	36 in	Blue, Brown, Green, Red, Tan, White, Yellow	F8443

2KVE4
(Shown with Handle 2KVF4)

2KVF3

Short Handle Tube and Pipe Brushes

White nylon tube brushes are made with filament for food grade applications. Stainless steel stem and fittings are designed to be autoclaved. 4½" brush length; 7" overall length.

Brushes require 48"L Nylon Handle 2KVF4, sold separately.

Brush Dia.	Item No.
Tube and Pipe Brushes	
1 in	2KVE4
1 ½ in	2KVE5
2 in	2KVE6
2 ½ in	2KVE7
3 in	2KVE8
4 in	2KVE9
5 in	2KVF1
6 in	2KVF2
8 in	2KVF3
48" Nylon Handle, Pkg. of 4	
—	2KVF4

Handles are sold separately on page 1541 and on Grainger.com®.

Medium-Duty Straight Stem Pipe Brushes

Brushes clean small tubing, lines, and openings.

Brush L	Handle L	Overall L	Item No.	¼ in DIA. Item No.	⅜ in DIA. Item No.	½ in DIA. Item No.	¾ in DIA. Item No.	1 in DIA. Item No.	1 ½ in DIA. Item No.	2 in DIA. Item No.
Galvanized Straight Pipe Brushes with White Polyester Bristles										
5 in	7 in	12 in	—	1YTE2	1YTE4	1YTE6	—	—	—	—
5 in	13 in	18 in	—	—	—	1YTE7	—	—	—	—
5 in	19 in	24 in	—	—	—	1YTE8	—	—	—	—
Galvanized Wire Curved Head Pipe Brush with Polypropylene Bristles										
11 in	4 in	15 in	5DUU4	—	—	—	—	—	—	—
Stainless Steel Straight Stem Pipe Brushes with Plastic Handle										
5 in	13 in	18 in	—	2RVD7	2RVE2	2RVE6	2RVF1	2RVF5	2RVF9	2RVG4
5 in	31 in	36 in	—	2RVD9	2RVE4	2RVE8	2RVF3	2RVF7	2RVG2	2RVG6

1YTE6

2RVD7
Image represents
handle and end of brush

1VAH2

Tube Fitting Brushes

Stiff wire bristles for internal cleaning/deburring of copper tube fittings; remove sharp edges. Also used as a light socket cleaning brush to improve electrical contact.

Tube Dia.	Brush Dia.	Item No.
⅛"	¼ in	1VAH2
⅜"	½ in	1VAH3
⅝"	¾ in	1VAH4
⅞"	1 in	1VAH5

1VAG9

1VAK6

Radiator Brushes

Horsehair fill brushes for use in small and difficult-to-reach spaces.

Handle Material	Overall L	Trim L	Item No.
Plastic	24 in	1 ½ in	1VAG9
Wood	24 in	2 ½ in	1VAK6

1VAH6

Flux Brushes

Black horsehair fill brushes with tin ferrule apply flux and other liquids. Economical and disposable. Pkg. of 24.

Brush W	Brush L	Item No.
⁵⁄₁₆"	6⅛"	1VAH6
⅜"	6⅛"	1VAH7
½"	⅞"	1VAH8

1VAF3

Tile and Grout Brushes

Brushes remove mold, mildew, and stains from the cracks, crevices, and grout lines of tiled surfaces. Easy-to-clean nylon bristles resist most chemicals. 1VAF3 has a high-density plastic foam block handle. 3CPH2 offers a brush head that pivots to maneuver into hard-to-reach places. 3CPH2 can be used with or without a handle; compatible with threaded handles, sold separately on page 1541.

3CPH2

Description	Overall L	Trim L	Bristle Material	Handle Color	Item No.
Tile and Grout Brush	8 in	¾ in	Stiff Nylon	Blue	1VAF3
Swivel Tile and Grout Brush	7 ½ in	1 ¼ in	Nylon	Blue	3CPH2

Floor Drain Brushes

Nonabsorbent plastic block and synthetic fill keep drains flowing freely. Use with 36"L threaded handle 2KE98, sold separately. Handle is imprinted with the message: "USE FOR FLOOR DRAIN ONLY" in English and Spanish.

2KE97

2KE98

Description	Brush L	Brush Dia.	Item No.
Polypropylene	5 ¾ in	4 in	2KE97
36"L White Plastic Handle			2KE98

Spoke Brush

Access areas with little clearance and into hard-to-reach corners. Medium stiff white tampico bristles clean easily with soap and water. 5" high-density wooden block.

Overall L	Brush L	Brush W	Item No.
17 in	11 in	3 in	1VAH1

Scratch/Cleaning Brushes

Clean threads, files, metal parts, and castings; remove rust, paint, scale, and solder. Stainless steel wire recommended to clean aluminum and stainless steel materials.

Bristle Material	Handle L	Trim L	No. of Rows	Item No.	Pkg. Qty.
201 Stainless Steel	8 in	½ in	3 x 7	1VAG1	5
304 Stainless Steel	10 in	1 in	4 x 16	1VAF6	1
304 Stainless Steel	10 in	1 ³⁄₁₆ in	4 x 16	1VAF7	1
304 Stainless Steel	13 ¾ in	1 in	3 x 19	1VAF5	1
304 Stainless Steel	7 in	½ in	3 x 7	1VAG2	5
Brass	5 ¾ in	1 ½ in	3	10D449	1
Brass	8 in	½ in	3 x 7	1VAG3	5
Carbon Steel	10 in	1 ⅛ in	4 x 16	1VAF9	1
Carbon Steel	10 in	1 ³⁄₁₆ in	4 x 16	1VAG7	1
Carbon Steel	11 ½ in	1 ½ in	4 x 11	1VAG8	1
Carbon Steel	13 ½ in	1 in	3 x 19	1VAF8	1
Carbon Steel	14 in	1 ⅛ in	3 x 19	1VAG6	1
Nylon	6 ½ in	½ in	4 x 15	1VAG4	5
Nylon	7 ½ in	½ in	3 x 7	1VAG5	5
Stainless Steel	13 ¾ in	1 ⅛ in	3 x 19	1VAF4	1
Synthetic		⅝ in	—	1VAK3	1
Tampico	9 ½ in	2 ½ in	—	1VAK2	1

1VAG2

10D449

1VAG8

1VAG4

1VAK3

1VAK2

Handles are sold separately on page 1541 and on Grainger.com®.

Utility Scrub Brush
Blue
G8889

Pipe Hook Brush
Red
J6532

Wand Brush
Yellow
G8893

Multipurpose
Valve and Fitting
1YTJ6

Color-Coded Brushes

Promote safe food handling practices and help minimize the risk of cross-contamination between work zones using color-coded brushes.

UTILITY SCRUB

General-purpose, with a white plastic block and 1⅝" poly-ester fill.

HAND SCRUB

Ergonomic design with curved back and flared, crimped bristles to hold solutions and clean along edges and corners. Contoured plastic blocks are 2½"W. Fill is 1⅜".

BENCH

Remove powder and other residues. Polyester fill is 2½".

PIPE HOOK

Circular clean-in-place brushes are ideal for cleaning curved drains, tubes, pipes, and equipment. Polyester bristles are twisted into galvanized steel wire.

WAND

Radiator-style brushes feature a long, narrow shape to clean coun-tertops, refrigerator coils, conveyor belts, and other hard-to-reach spots. Slip-resistant, durable plastic handle will not crack or splinter.

BOTTLE AND GALLON

Wirewound brushes feature smaller diameter handles and softer bristles for cleaning containers with smaller openings.

MULTIPURPOSE VALVE AND FITTING

Medium stiff bristles provide aggressive cleaning, and rounded heads and ends protect against scratching.

Description	Brush L	Trim L	Overall L	▶CHOOSE: Color*	Item No.
Utility Scrub Brush, 17"L Long Handle	3 in	2 in	20 in	W	G8890
	3 in	1 ⅝ in	20 in	B, G, R, Y	G8890
Utility Scrub Brush, 5"L Short Handle	3 in	1 ⅝ in	8 in	B, R, W, Y	G8889
Hand Scrub Brush, 6"L Block Handle	6 in	1 ⅜ in	6 in	W	3NB61
Bench Brushes, 5"L Short Handle	8 in	2 ½ in	13 in	B, G, R, W, Y	G8891
Pipe Hook Brushes, 4"L Short Handle	8 in	2 ¼ in	11 ½ in	B, R, W, Y	J6532
Wand Brushes, 15"L Long Handle	9 in	2 ¼ in	24 in	B, G, R, W, Y	G8893
Bottle Brush, 8"L Short Handle	4 in	1 in	12 in	W	1YTN5
Bottle Brush, 9½"L Short Handle	6 ½ in	1 ½ in	16 in	W	1YTP1
Multipurpose Valve and Fitting Brushes, 10"L Short Handle	6 in	3 in	16 in	W	1YTJ6

** B = blue, G = green, R = red, W = white, Y = yellow*

Hygiene Bench Squeegee
Blue
J6517

Foam Squeegee
Red
J6521

Floor Scrub Brush
Red
J6529

51"L
Aluminum
Handle
White
J4751

60"L
Fiberglass
Handle
Yellow
J6523

10"L Scrub Brush
Green
J4741

Hand Held Dust Pan
Green
J4745

Pail
Red
J4755

Color-Coded Squeegees, Floor Brushes, and Cleaning Supplies

Protect against microbial cross-contamination by assigning specific colors to each potential area of contamination.

Color-coded supplies allow certain colors for specific cleaning purposes. This system is easy to understand and prevents cross-contami-nation for better sanitation.

SQUEEGEES

Hygiene—1-pc. design inhibits growth of bacteria by eliminating openings for dirt to accumulate. Soft ther-moplastic elastomer blade contours easily to uneven surfaces. Frame is designed to help prevent fluids from splashing over squeegee frame. 12" squeegee includes a 6½" handle.

Foam—For cleaning liquid spills from floor surfaces. Double foam rubber blades conform to most surfaces, including tile and marble. Durable plastic frames will not rust or spark.

FLOOR SCRUB BRUSHES

Dual-angle plastic block and crimped polypropylene filament hold liquid for scrub-bing at high and low angles. Threaded handle hole; order handle separately on page 1541. 1¾" trim length. Overall length: 10".

ANGLE BROOMS

Designed for extended use; ergonomic shape prevents uneven wear. 1"-dia., fiberglass handle. Sanitary, unflagged polypropylene bristles. Self-locking Flex-Tip. 12" sweep face; 5½" to 7" trim length. Overall length: 54".

FLOOR SWEEPS

Hygienic, nonabsorbent plastic block with angled synthetic bristles. Short, heavy-duty bristles up front help sweep heavier debris. Long, fine bristles in back sweep fine dust and can be used with sweeping compound. 2⅓" trim length. Block size: 24".

HANDLES

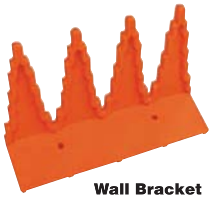
1"-dia. handles for use with a variety of bench and floor squeegees and brushes. Short 6½" polypropylene handles feature ACME threads and are ideal for use with bench squeegees and brushes. 60"L fiberglass handles are self-locking.

Description	▶CHOOSE: Color*	Item No.
Hygiene Bench Squeegees		
12"L TPE Rubber	B, W	J6517
Hygiene Floor Squeegees		
16"L TPE Rubber	G, W, Y	J6518
24"L TPE Rubber	G, R, Y	J6519
Foam Squeegees		
18"L Double Blade	B, G, R, W, Y	J6520
24"L Double Blade	B, G, R, W, Y	J6521
Floor Squeegees		
22"L Double Blade Foam Rubber	B, G, R, W, Y	J4743
24"L Single Blade TPE Rubber	B, G, R, W, Y	J4746
Floor Scrub Brushes		
10"L Polypropylene	G, R, W, Y	J6529
Angle Brooms		
54"L Plastic	B, G, R, W, Y	J6530
Floor Sweeps		
24"L Synthetic	B, G, R, W, Y	J6531
Handles - For Use With Brooms, Brushes, Squeegees, ¾" Acme Thread		
51"L Fiberglass	B, G, R, W, Y	J4748
59"L Fiberglass	B, G, R, W, Y	J4749
51"L Aluminum	B, G, R, W, Y	J4751
59"L Aluminum	B, G, R, W, Y	J4752
Extension Handles - For Use With Brushes, Brooms, Squeegees, ¾" Acme Thread		
60⁵⁄₁₆"L to 108⁹⁄₁₆"L Aluminum	B, G, R, W, Y	J4756
Handles for Bench Squeegees		
6½"L Plastic	G, R, W, Y	J6522
Handles for Floor Brushes, Sweeps, and Squeegees		
60"L Fiberglass	B, G, R, W, Y	J6523
Brushes		
10"L Scrub Polypropylene	B, G, R, W, Y	J4741
20¼"L Scrub Polypropylene	B, G, R, W, Y	J4747
12"L Bench Polypropylene	B, G, R, W, Y	J4742
10¹³⁄₃₂"L Wall Polypropylene	B, G, R, W, Y	J4750
8⁷⁄₆₄"L Tank Polypropylene	B, G, R, W, Y	J4753
Brooms		
7¹³⁄₆₄"L Polypropylene	B, G, R, W, Y	J4744
24"L Polypropylene	B, G, R, W, Y	J4754
Hand Held Dust Pans		
13"L x 11½"L W Polypropylene	B, G, R, W, Y	J4745
Pails		
3 gal. Polypropylene	B, G, R, W, Y	J4755

** B = blue, G = green, R = red, W = white, Y = yellow*

Floor Squeegee Black E7051

Floor Squeegee Blue H8711


Wall Bracket Red E9634

Dust Pan Yellow E9612

Plastic Pail Green F8439

Detail Brush White H8699

UST Bench Brush Pink J1709

UST Deck Scrub Orange J1712

Short-Handled Brush Blue H1610

REMCO PRODUCTS Vikan®

Color-Coded Hygienic Cleaning Tools

FDA-compliant products are ideal for cleaning where hygiene and cross-contamination is a concern. Incorporating a color-coded system in your HACCP plan allows for identifying and mitigating potential food safety issues.

Broom Yellow D9069

Angle Broom Black E4153

Description	▶CHOOSE: Color*	Item No.
Bench Squeegees		
10"L Double Blade, Foam	B, G, R, W, Y	E7048
10"L Double Blade Ultra Hygiene	B, G, R, W, Y	H1605
10"L Single Blade, Rubber	B, G, O, P, PL, R, W, Y	H8708
Squeegee Replacement Blades		
16"L or 24"L Double Foam Blade	BK, W	J4182
20"L Black Foam Rubber, Double Blade Hygiene Cassette	BK	2RWL2
20"L Double Rubber Ultra Blade	B, G, R, W, Y	E7781
20"L White Foam Rubber, Double Blade Hygiene Cassette	W	31CG10
24"L Double Rubber Ultra Blade	B, BK, G, O, P, PL, R, W, Y	E7782
28"L Double Blade Foam	W	31CG12
28"L Double Foam Blade	BK	2RXC4
Ceiling Squeegees		
16"L Ceiling Squeegee	B, G, R, W, Y	G3981
Floor Squeegees w/Fiberglass Handles		
20"L Double Blade Foam w/51"L Handle	B, G, R, W, Y	D9057
20"L Double Blade Foam w/59"L Handle	B, G, R, W, Y	D9058
20"L Single Blade w/51"L Handle	B, G, R, W, Y	H8712
20"L Single Blade w/59"L Handle	B, G, R, W, Y	H8713
24"L Double Blade Foam w/51"L Handle	B, BK, G, R, W, Y	D9059
24"L Double Blade Foam w/59"L Handle	B, G, PL, R, W, Y	D9061
24"L Single Blade w/51"L Handle	B, G, R, W, Y	H8714
24"L Single Blade w/59"L Handle	B, G, PL, R, W, Y	H8715
28"L Double Blade Foam w/51"L Handle	B, G, R, W, Y	D9062
28"L Double Blade Foam w/59"L Handle	B, G, R, W, Y	D9063
Floor Squeegees w/Polypropylene Handles		
20"L Single Blade Rubber Ultra Hygiene w/59"L Handle	B, G, R, W, Y	K2495
20"L Single Blade Rubber w/51"L Handle	B, G, R, W, Y	K2494
24"L Single Blade Rubber Ultra Hygiene w/59"L Handle	B, BK, G, O, P, PL, R, W, Y	K2497
24"L Single Blade Rubber w/51"L Handle	B, BK, G, O, P, PL, R, W, Y	K2496
Floor Squeegees w/o Handles		
16"L Double Blade Foam	B, G, R, W, Y	E7049
20"L Double Blade Foam	B, BK, G, P, R, W, Y	E7050
20"L Double Blade Ultra Hygiene	B, G, R, W, Y	E7779
20"L Single Blade Ultra Hygiene	B, G, R, W, Y	H8710
24"L Double Blade Foam	B, BK, G, O, PL, R, W, Y	E7051
24"L Double Blade Ultra Hygiene	B, BK, G, O, P, PL, R, W, Y	E7780
24"L Single Blade Ultra Hygiene	B, BK, G, O, P, PL, R, W, Y	H8711
28"L Double Blade Foam	B, G, R, W, Y	F8430
28"L Single Blade Ultra Hygiene	B, G, R, W, Y	H8716
Hygienic Wall Brackets		
9½"L, 22-lb. Cap.	B, BK, G, O, R, W, Y	E9634
Dust Pans		
Hand Held Dust Pan	B, BK, G, O, P, PL, R, W, Y	E9612
Plastic Pails		
1.5 Gal. Cap., Polypropylene	B, BK, G, O, P, PL, R, W, Y	H8704
3 Gal. Cap., Polypropylene	B, BK, G, O, P, PL, R, W, Y	F8439
5 Gal. Cap., Hygienic Polypropylene	B, G, R, W, Y	J5101
Plastic Pail Lids		
For 5 Gal. Cap. Pails, Polypropylene	B, G, R, W, Y	K2488

Description	▶CHOOSE: Color*	Item No.
Tank Brushes		
Polypropylene Fill - 1½" Trim L	B, G, R, W, Y	H1599
Tank Brush, Stiff 5½ x 8"	B, BK, G, O, P, PL, R, W, Y	F8448
Scrub Brushes		
Split Bristle/Flared Polyester Fill - 1 51/64 in Trim L	B, G, R, W, Y	H1611
Bench Brushes		
Medium Polyester Bristle - 2⅝" Trim L	B, BK, G, O, P, PL, R, W, Y	H6191
Soft Polyester Bristle, 2⅝" Trim L	B, BK, G, O, P, PL, R, W, Y	H6192
Detail Brushes		
Polyester Fill, Stiff - ½" Trim L	B, G, Lime, O, PL, R, W, Y	H8699
Polyester Fill, Soft - 2¼" Trim L	B, G, O, P, PL, R, W, Y	K2493

** B = blue, BK = black, G = green, O = orange, P = pink, PL = purple, R = red, W = white, Y = yellow*

Description	▶CHOOSE: Color*	Item No.
Deck Scrub Brushes		
Deck Scrub, Stiff, 2½ x 11"	B, G, O, R, W, Y	D9071
Deck Scrub, Stiff, 3 x 8 57/64"	B, G, R, W, Y	K2492
High-Low Brush, Medium, 5 x 10"	B, BK, G, O, P, PL, R, W, Y	D9068
Deck Brush, Soft/Split, 3 x 8"	B, G, R, W, Y	E4126
Deck Scrub, Stiff, 3 x 12"	B, BK, G, O, P, PL, R, W, Y	G3980
Polyester Fill - 1 13/16" Trim L	B, G, R, W, Y	H1604
Grout Brushes		
Polyester Fill - 1 ⅝ in Trim L, 9 ¼ in x 1 ½ in	B, G, R, W, Y	J5778
Ultra Safe Technology Brushes		
Stiff Polyester Hand Brush, 10" Overall L	B, G, O, P, PL, R, W, Y	J1707
Stiff Polyester Hand Brush, 15½" Overall L	B, G, O, P, PL, R, W, Y	J1708
Bench Brush, Soft Polyester 1 ½ inW x 6 ½ inL	B, G, O, P, PL, R, W, Y	J1709
Bench Brush, Medium Polyester 1 ½ inW x 6 ½ inL	B, G, O, P, PL, R, W, Y	J1710
Ultra Safe Technology Brooms		
Stiff Polyester Fill, 1½" Trim L	B, G, O, P, PL, R, W, Y	J1712
Medium Polyester Fill, 2¼" Trim L	B, G, O, P, PL, R, W, Y	J1711
Soft Polyester Fill, 2¼" Trim L	B, G, O, P, PL, R, W, Y	J1713
Brushes		
Dish Brush, Soft, 1 x 10½"	B, G, O, P, R, W, Y	E4121
Short-Handled Brush, Stiff, 2¾ x 10"	B, BK, G, O, P, PL, R, W, Y	H1610
Long-Handled Churn Brush, Stiff, 2 x 16"	B, BK, G, O, P, PL, R, W, Y	H1608
Hand and Nail Brush, Stiff, 1½ x 4 57/64 in	B, BK, G, O, PL, R, W, Y	F8436
Scrub Brush, Stiff, 5 x 5 in	B, G, R, W, Y	F8421
Hand Scrub Brush, Stiff/Flared, 3" x 8"	B, BK, G, O, P, PL, R, W, Y	H1606
Hook Brush, 2¼ x 15½"	B, BK, G, O, R, W, Y	J5779
Bottle Brush, Stiff, 3½ x 16 29/32"	B, BK, G, R, W, Y	J5777
Scrub Brush, Medium, 1 x 11"	B, G, R, W, Y	E4122
Short Handle, Medium, 1 37/64 x 10¼"	B, G, R, W, Y	K2484
Tube and Valve Brushes		
Medium, 2⅜ x 19½"	B, BK, G, O, P, PL, R, W, Y	H1579
Stiff, ¾ x 20"	B, BK, G, O, P, PL, R, W, Y	H1581
Stiff, 1⅝ x 20"	B, BK, G, O, P, PL, R, W, Y	H1582
Brooms		
Upright Broom Head, Medium, 2 x 11"	B, BK, G, O, PL, R, W, Y	D9069
Broom Head, Medium, 2 x 16 25/64"	B, G, O, P, PL, R, W, Y	D9072
Broom Head, Soft/Stiff, 2 x 24"	B, BK, G, R, W, Y	D9073
Angle-Cut Broom Head, Stiff, 1½ x 9½"	B, BK, G, O, R, W, Y	E4153
Angle-Cut Broom Head, Soft, 9 x 11½"	B, BK, G, R, W, Y	K2483
Heavy-Duty Floor Broom, 3"L Soft, 1½ x 9½"	B, G, R, W, Y	E4154
Combo Floor Broom, Soft/Stiff, 16 x 2"	B, BK, G, O, PL, R, W, Y	E9580
Heavy-Duty Floor Broom, Split/Soft, 2 x 16"	B, G, R, W, Y	E9582
Heavy-Duty Floor Broom, Stiff, 2 x 19"	B, G, R, W, Y	E9581
Heavy-Duty Floor Broom Head, Soft, 2 x 19"	B, BK, G, O, PL, R, W, Y	H1571
Lobby Broom with Lidded Dust Pan	B, BK, G, GY, O, P, PL, R, W, Y	J5780

Description	▶CHOOSE: Handle Color*	Item No.
Handles		
Fiberglass, Threaded, 51"L	B, BK, G, R, W, Y	F8427
Fiberglass, Threaded, 59"L	B, BK, G, O, PL, R, W, Y	F8426
Aluminum, 51"L	B, BK, G, O, P, PL, R, W, Y	E9583
Aluminum, 59"L	B, BK, G, O, P, PL, R, W, Y	F8425
Aluminum, 57½"L	B, G, O, PL, R, W, Y	G3984
Extendable, 64 to 115"L	B, BK, G, R, W, Y	E4132
Stainless Steel, 59½"L	B, G, R, W, Y	G3982
Polypropylene, 6 ½ in	B, G, R, W, Y	H1569
Polypropylene, 51"L	B, BK, G, O, P, PL, R, W, Y	J0317
Polypropylene, 59"L	B, BK, G, O, P, PL, R, W, Y	J0318
Polypropylene, 67"L	B, G, R, W, Y	J0319
Pad Holders		
Handheld	B, G, R, W, Y	E9584
Floor Model	B, G, O, R, W, Y	E9585

1YTN5

1YTT3

2NTJ7

38TK67

Food Service Brushes

Bottle—Short-handle brushes are used to scrub the sides and bottoms of tubes, jars, bottles, and glasses. They have a cylindrical head and a small-diameter handle to clean containers with small openings.

Oven and Grill—Wire bushes and metal scrapers quickly and easily remove heavy carbon deposits, rust, and burnt-on food buildup.

Note: Equipment must be turned off prior to brush use.

Grill Cleaning System—Specifically designed to clean hot surfaces without clogging. No. 2NTJ7 must be used with grill pad and holder. No. 2NTJ6 cleans without scratching or lifting surface cure.

Coffee Maker—Compact brush cleans all coffee decanters, pots, urns, and dispensers. Semi-circular wire wound brush contours to the inside of the container.

Description	Overall L	Brand	Item No.
Bottle			
Bottle Brush with Polyester Bristles, 8 in Short Handle	12 in	Tough Guy	**1YTN5**
Bottle Brush with Polyester Bristles, 9 ½ in Short Handle	16 in	Tough Guy	**1YTP1**
Oven and Grill			
Broiler Brush with Carbon Steel Bristles	30 ½ in	Tough Guy	**1YTT3**
Broiler Brush with Stainless Steel Bristles	30 ½ in	Tough Guy	**1YTT4**
Pizza/BBQ Oven/Grill Brush with Carbon Steel Bristles	39 in	Tough Guy	**1YTT6**
Oven and Grill Brush with Scraper with Brass Wire Bristles	9 in	Tough Guy	**1YTU2**
Oven/Grill Brush and Scraper with Brass Wire Bristles (Head Only)	8 ½ in	Tough Guy	**1YTT5**
Oven/Grill Brush and Scraper with Brass Wire Bristles	42 in	Tough Guy	**1YTT9**
Grill Cleaning System			
Cleaning Brick, 5 ¾ in L x 4 in W, Pkg. of 20	—	Tough Guy	**2NTJ8**
Scouring Pads, 5 ½ in L x 4 in W, Pkg. of 20	—	Tough Guy	**2NTJ7**
Pad Holder, 6 in L x 3 ½ in W	—	Tough Guy	**2NTJ9**
Cleaning Brick, 8 in L x 4 in W	—	Tough Guy	**2NTJ6**
Coffee Maker			
Coffee Maker Brush with Polyester Bristles, 3 in Short Handle	10 in	Carlisle	**38TK67**

48TM20

3CPE7

3CPF1

Food Service Scrapers

Scrapers are ideal for general mixing and stirring. Scrapers made of nylon (300°F) will sharpen and contour to a specific use. Smooth finish, with waterproof construction for easy cleanup.

Description	Brand	Item No.
Plastic Paddle Scraper, 27 in	Sqwincher	**48TM20**
Stainless Steel Paddle Scraper, 60 in	Tough Guy	**3CPE7**
4½ x 7½" Nylon Paddle Scraper with 48 in Stainless Steel Handle	Tough Guy	**3CPE9**
4½ x 7½" Nylon Paddle Scraper with 72 in Stainless Steel Handle	Tough Guy	**3CPF1**
Replacement Blade for 3CPE9 and 3CPF1	Tough Guy	**3CPF3**

2KJK6

2KJL4

Steel Wool Pads and Reels

Pads—General purpose carbon steel wool. Packaged in sleeves of 16 individual pads.

Reels—5-lb. carbon steel reels can be cut to size to meet the needs of specific applications. 2KJN3 to 2KJN5 are stainless steel wool for wet or corrosive environments, or where environmental exposure would cause discoloration or degradation. Also for heavier-duty industrial applications.

Grade	Application	PADS Item No.	REELS Item No.
Carbon Steel Wool			
Super Fine	Buff Woodwork	**2KJK6**	**2KJL4**
Extra Fine	Removes Paint From Wood	**2KJK7**	**2KJL5**
Very Fine	Polish Soft Metals	**2KJK8**	**2KJL6**
Fine	Cleans Porcelain, Tile & Grout	**2KJK9**	**2KJL7**
Medium	Preps Wood For Paint	**2KJL1**	**2KJL8**
Medium Coarse	Etches Metal	**2KJL2**	**2KJL9**
Coarse	Removes Lacquer & Shellac	**2KJL3**	**2KJN1**
Extra Coarse	Removes Paint, Rust & Varnish	—	**2KJN2**
Stainless Steel Wool			
Fine	Light-Duty Wet Sanding	—	**2KJN3**
Medium Coarse	Etching In Wet	—	**2KJN4**
Extra Coarse	Rough Wet Sanding	—	**2KJN5**

2UY27

6NE88

Erasing Pads

Tough Guy Mighty Sponge—Blue center layer provides better grip and longer life. Use on floors, baseboards, wallpaper, tile, showers, and countertops.

Scotch-Brite Easy Erasing Pad—Ideal for removing stains, marks, ink, and more. No chemicals or sprays needed. Safe for indirect food contact areas.

L	W	Item No.	Pkg. Qty.
Tough Guy Mighty Sponges			
4 11/32 in	2 ¾ in	**2UY27**	24
Scotch-Brite Easy Erasing Pads			
5 ⅛ in	2 ⅞ in	**2GKH2**	60
5 ⅛ in	2 ⅞ in	**6NE88**	4

Scouring Pads and Scrubbing Sponges

TOUGH GUY

SCOURING PADS

Nonabrasive—Cleans without scratching.

Medium-Abrasive—For most daily cleaning jobs.

Blue—Abrasive, open-weave pad cleans baked-on surfaces and crusted build-up on equipment.

Green—Flexible, heavy-duty abrasive pad.

White and Yellow—Yellow cellulose sponge backed with white, lightly abrasive scouring pad.

Green and Yellow—Yellow cellulose sponge backed with medium-abrasive green scouring pad. Premoistened and individually wrapped.

Blue and Yellow—Contour-cut sponge backed with blue antimicrobial scratchless scouring pad.

Antimicrobial—Green pad with antimicrobial treatment.

PADS

Nylon Soap—2 scrubbing surfaces and a foam center filled with concentrated liquid detergent.

Steel Wool—Steel wool is fully saturated with high-sudsing cleaning formula.

SCRUBBERS

Brass—Soft brass wire for use where scratching is an issue.

Stainless Steel—Wideband construction for full-coverage cleaning.

Plastic Mesh—Durable high-strength filament with overlap construction. For sensitive surfaces.

MICROFIBER SCRUBBERS

Blue—Sponge covered with microfiber for lint- and streak-free cleaning.

2NTG8

2NTH9

3RAK3

Description	L	W	Item No.	Pkg. Qty.
Scouring Pads				
Nonabrasive	6 in	9 in	2NTG7	20
Medium-Abrasive	6 in	9 in	2NTG8	20
Blue	6 in	3 ½ in	2NTG9	20
Green	9 in	6 in	2NTH1	15
White and Yellow	6 in	3 ½ in	2NTH2	20
Green/Yellow	6 in	3 ½ in	2NTH3	20
Blue/Yellow	6 in	3 ⅜ in	2NTJ2	20
Antimicrobial	8 ⅞ in	5 ⅞ in	2NTJ3	20
Antimicrobial Commercial	8 ⅞ in	5 ⅞ in	2NTJ4	20
Pads				
Nylon Soap Pad	3 ½ in	3 ½ in	2NTJ5	5
Steel Wool Soap Pad	3 7/16 in	3 ⅝ in	2NTH7	120
Scrubbers				
Brass Scrubber	3 in	3 in	2NTH8	6
Stainless Steel Scrubber	3 in	3 in	2NTH9	6
Plastic Mesh Scrubber	4 in	4 in	2NTJ1	4
Microfiber Scrubbers				
Blue	5 in	3 in	3RAK3	2

Scouring Pads and Scrubbing Sponges

Scotch-Brite

SCOURING PADS

Cleansing 98—For sensitive surfaces such as stainless steel, chrome, porcelain, and ceramic.

General Purpose 96—Synthetic scouring pad.

General Purpose Green 9650—Thicker hand-size version of scouring pad 96 eliminates cutting or folding of pad for a better grip.

Heavy-Duty 86—For heavily baked-on foods.

Pot 'n Pan 88—Synthetic material won't splinter or rust.

Power Pad 2000—Scours 2 to 4 times faster with 2 to 8 times less scratching than conventional scouring pads. Ideal for stainless steel.

Cleaning Pad 9000—Cleans most types of surfaces, including porcelain and nonstick cookware, without scratching.

Purple Scour Pad 2020—Fast scouring and low scratching.

Scour Pad 220—Heavy-duty, tough cleaning.

Multipurpose 622—For no-scratch scouring.

Dobie All Purpose Pad 720—Hand-size, no-scratch pad constructed of mesh-wrapped urethane sponge.

Grill Scrubber 7721—Mineral-coated to remove burnt-on food and grease.

Natural Fiber—Made from 50% plant-based materials. One sponge does the work of 30 paper towels.

SCRUBBING SPONGES

Power Sponge 3000—Power Pad 2000 is combined with an antimicrobial sponge.

Scrub Sponge 74—Features 96 pad on one side for medium-abrasive scrubbing.

Scrub Sponge 63—Light-duty cleaning without scratching.

Sponge Cloth—Offers the absorbency of a sponge with the coverage of a wipe.

Copper-Coated—Long-lasting copper edges cut through tough soil.

Stainless Steel—Removes baked-on food from cooking equipment.

1EKB6

2JDB9

4HN92

Description	L	W	Item No.	Pkg. Qty.
Scotch-Brite Scouring Pads				
Cleansing 98	6 in	9 in	4VZ82	60
General Purpose 96	6 in	9 in	2U643	20
General Purpose 96CC	6 in	9 in	21XL15	10
General Purpose Green 9650	4 ½ in	3 in	1CJ70	80
Heavy-Duty 86	9 in	6 in	1CJ74	12
Pot 'n Pan 88	5 in	3 ½ in	4WC73	40
Power Pad 2000	5 ½ in	3 57/64 in	4HN91	20
Cleaning Pad 9000	4 in	5 ¼ in	4HN85	40
Purple Scour Pad 2020	4 ½ in	3 in	1EKB6	24
Scouring Pad 220	6 in	3 ⅞ in	2JDB8	24
No Scratch Scour Pad 622-10	6 in	3 ⅞ in	403R56	10
Dobie Pad 720	4 ⅜ in	2 ⅝ in	2JDB1	24
Scrubber 7721	6 in	4 in	2JDB9	12
Natural Fiber	6 in	4 in	21XL10	3
Scotch-Brite Scrubbing Sponges				
Power Sponge 3000	2 ⅞ in	4 ½ in	4HN92	20
Scrub Sponge 74	6 in	3 ⅝ in	2U642	20
Scrub Sponge 63	6 in	3 ⅝ in	2U641	20
Natural Fiber	4 ½ in	2 11/16 in	21XL09	3
Sponge Cloth	7 ⅘ in	6 ⅘ in	21XL11	2
Copper-Coated	3 in	1 ½ in	21XL12	3
Stainless Steel	3 ¾ in	3 ¾ in	21XL13	1
Stainless Steel	3 ¾ in	3 ¾ in	53UD25	12

Pumice Stones and Screens

TOUGH GUY

Reusable blocks and pads remove deposits, soils, and stains from most hard surfaces without marring and without the need for harsh chemicals. Safe for skin and for use around food equipment.

12G796

Description	Item No.
Grillmaster Cleaner Stick, 5 ¾ in x 1 ½ in x 1 ½ in	12G793
Grillmaster Cleaning Brick, 5 ¾ in x 2 ¾ in x 2 ¾ in	12G794
Pumie Flexi-Scour Scouring Screen, 5 ½ in x 4 in	12G795
Pumie Toilet Bowl Ring Remover with Handle, 5 in x 1 ¼ in x 1 ¼ in	12G796
Pumie Cleaner Stick, 5 ¾ in x ¾ in x 1 ¼ in	12G797
Pool Blok Cleaner Stick, 5 ¾ in x 1 ½ in x 1 ½ in	12G798
Pool Blok Pool Concrete/Tile Cleaner, Snaps into Standard Telescopic Poles, 6 in x 1 ½ in x 1 ½ in	12G799

12G797

Cellulose and Smoke and Soot Sponges

TOUGH GUY

Cellulose—Durable sponges for quick clean-ups. Rinse easily for repeated use.

Smoke and Soot—Specially designed for dry removal of smoke and soot damage. One sponge cleans up to 100 sq. ft.

Color	L	W	Item No.	Pkg. Qty.
Cellulose Sponges				
Pink	3 ⅝ in	6 in	2NTH4	2
Yellow	4 3/16 in	6 in	2NTH5	1
Yellow	4 5/16 in	7 ½ in	2NTH6	1
Smoke and Soot Sponge				
Tan	3 in	6 in	2RMZ8	1

2NTH5

2RMZ8

21HN73

HiFlo nLite Waterfed Kits

Professionally clean windows and facades. HiMod carbon master poles decrease weight and increase rigidity. Kits include pole system, radius brush, 65-ft. hose, spare water jets, 8" gooseneck, and carrying case.

Description	Mfr. Model	Item No.
33-ft. Pole System	NLKU6	**21HN73**
55-ft. Pole System	NLKU3	**21HN74**

2RNA4

3U436

Window Washers with Handle

TheOriginalStrip—Scrub windows and other flat surfaces prior to squeegeeing. Replacement sleeve is made of plush woven fabric. Include handle.

Swivel Strip T-Bar—Swivels freely or can be locked into 7 positions. Sleeve not included.

ErgoTec T-Bar—T-bar handle with 2-component, ergonomically designed grip. Water wells provide excellent water retention. Sleeve not included.

Sprayer on a Belt—Sprayer bottle hooks to belt to alleviate strain on back, arms, and wrist. Maneuverable trigger can even spray upside down. 33-oz. bottle.

BucketOnABelt—Holds ½ qt. of cleaning fluid, 2 squeegees, 1 strip washer, and 1 scraper.

Description	Size	Mfr. Model	Item No.
Window Washers			
TheOriginalStrip	14"	WC350	**3U434**
Squeegees			
Swivel Strip T-Bar	14"	SV350	**2RNA2**
ErgoTec T-Bar	10"	EH250	**2RNA8**
ErgoTec T-Bar	18"	EH450	**2RNA3**
Window Washers			
TheOriginalStrip	18"	WC450	**3U435**
Sprayer on a Belt	33 oz	SOABG	**2RNA7**
BucketOnABelt	—	BB010	**2RNA4**
Replacement Sleeves			
Sleeve for 5V350	14"	WS350	**3U436**
Sleeve for 3U435	18"	WS450	**3U437**

Curved Blade Squeegee 1ZBZ1

Straight and Curved Blade Rubber Floor Squeegees

Neoprene—Nonabrasive rubber for use with petroleum-based products. Black color.

Nonmarking—Resists most vegetable and animal materials, oil, and fats. Gray color.

Foam—For use on uneven and smooth surfaces for quick drying results. Black color.

Size	STRAIGHT BLADE Item No.	CURVED BLADE Item No.	REFILL Item No.
Neoprene			
18 in	**1ZBZ3**	—	**1ZCA5**
24 in	**1ZBZ4**	**1ZBZ1**	**1ZCA6**
36 in	**1ZBZ5**	**1ZBZ2**	**1ZCA7**
Nonmarking			
18 in	**1ZBZ8**	—	**1ETZ7**
24 in	**1ZBZ9**	**1ZBZ6**	**1ETZ8**
36 in	—	**1ZBZ7**	**1ETZ9**
Foam			
18 in	**1ZCA1**	—	**1EUA1**
22 in	**1ZCA2**	—	—
24 in	**1ZCA3**	—	**1EUA2**
30 in	**1ZCA4**	—	—

1NFG4

1NFG5

1NFF6

Institutional Floor Squeegees and Handle

Squeegees—All-plastic head and 1-pc. molded frame feature a heavy-duty 3/4" neoprene blade. 1NFG5 incorporates a full-length scrub brush into the frame. Threaded compression holes attach squeegee head to standard, square-cut handles.

Handle—Structural honeycomb ribs provide maximum strength and safety for correctional and intense use environments. Uses no metal parts and will not rust.

Description	Item No.
21 in Squeegee Head	**1NFG4**
21 in Squeegee Head with Scrub Brush	**1NFG5**
56 in Handle	**1NFF6**

Floor Squeegees with Handle

64XF86

Nonmarking, flexible rubber blade and a rugged metal frame for long life. Include a 60"L wood handle.

Blade Count	Blade W	Blade Shape	Item No.
Single	24 in	Straight	**64XF86**
	24 in	Curved	**64XF89**
Double	22 in	Straight	**64XF88**
	18 in	Straight	**64XF90**

Floor Squeegees with Handle

Durable blade and tough steel frame. Include a 60"L wood handle.

59JM34

Blade Material	Blade W	Blade Shape	Item No.
Foam Rubber	18 in	Straight	**59JM34**
	22 in	Straight	**59JM35**
Rubber	36 in	Straight	**59JM46**
Neoprene	24 in	Straight	**59JM36**
	24 in	Curved	**59JM37**
	18 in	Straight	**59JM47**

3PYV3

Disaster Cleanup Floor Squeegees with Handle

Double-edged neoprene blade with heavy-duty bracing removes heavy liquids such as mud. Include a 66"L handle.

Blade W	BLADE Item No.	REFILL Item No.
24 in	**3PYV3**	**3PYV4**
36 in	**3PCA3**	**3PYV2**

3PCA4

Handheld Floor Squeegees

Clamp-style frame has wing nuts and lock washers. Ideal for applying fluids and coating materials.

Description	Blade W	Item No.
Round Edge	8 in	**3PCA4**
Square Edge	8 in	**3PCA5**

1EUB4

3U424

3U428

Window Squeegees

TOUGH GUY

Stainless Steel—Use as hand-held or with standard taper-tip poles. Black rubber grip. Rubber blade and channel assembly are easily adjustable and removable.

Automobile—Includes scrubbing sponge and black rubber blade.

Ergonomic Silicone—Soft silicone blade conforms to most surfaces and will not scratch.

UNGER

Pro Stainless Steel—Quick-release handle has ergonomic rubber grip. Include channel and soft rubber blade.

GoldenClip Brass—Adjustable screws hold clipped channel. Include handle, channel, and soft rubber blade.

ErgoTec Swivel Loc—2-component handle features quick-release. Conform to irregularly shaped windows. Channel not included.

VisaVersa—Washer and squeegee in one is ideal for high window cleaning. Sleeve and rubber included.

Description	Blade W	Brand	Item No.
Squeegees			
Stainless Steel	12 in	Tough Guy	**1EUB4**
	18 in	Tough Guy	**1EUB5**
Automobile	8 in	Tough Guy	**1EUB9**
Ergonomic Silicone	10.5 in	Tough Guy	**1EUC2**
Pro Stainless Steel	12 in	Unger	**3U424**
	18 in	Unger	**38HY08**
GoldenClip Brass	12 in	Unger	**38HY04**
	18 in	Unger	**3U427**
ErgoTec Swivel Loc, 0° Straight Head	—	Unger	**2RMZ9** *
ErgoTec Swivel Loc, 30° Angled Head	—	Unger	**2RNA1** *
VisaVersa	14 in	Unger	**3U428**
	18 in	Unger	**3U429**
Refills			
Rubber for Tough Guy Squeegees	12 in	Tough Guy	**1EUB6**
	14 in	Tough Guy	**1EUB7**
	18 in	Tough Guy	**1EUB8**
Rubber for Unger Squeegees	12 in	Unger	**3U430**
	14 in	Unger	**3U431**
	18 in	Unger	**3U432**
Synthetic Repl. Sleeve for Any 14 in Unger Window T-Bar	—	Unger	**3RDH8**
Microfiber Repl. Sleeve for Any 14 in Unger Window T-Bar	—	Unger	**3RDH9**

** Channel sold separately.*

2CJP7

Handles

1.5° Taper Aluminum—Lightweight, yet strong enough for industrial applications. Available knocked down.

3.0° Taper Aluminum—Easy-use extension features Acme threads.

Description	Item No.
1.5° Taper Tip	2CJP7
3-Pc. 1.5° Taper Tip, Knocked Down	5DUV0
3.0° Taper	2CJP8

Trigger Grabbers

Ideal for picking up bottles, cans, and garbage outdoors, as well as retrieving out-of-reach items. Durable steel construction with powerful claws and ergonomic grip. Trigger grip models have a rotating head and magnetic tip.

3UP50 and 1VCE6: Sharp tool pierces paper debris and cans without bending. Durable, lightweight steel tubing with ergonomic nylon grip.

L	Mfr. Model	Item No.
Tough Guy Trigger Handle		
32 in	13R142	13R142
Unger Nifty Nabber Trigger Handle Grip		
24 in	NT060	2NDR1
32 ¾ in	NT080	2NDR2
36 in	NT090	2NDR3
Unger Nifty Nabber Squeeze Handle Pro		
20 ½ in	NN400	5DUU8
36 in	NN900	3UP49
51 in	NN140	5PE69
96 in	NN960	5DUU9
Unger Trash Picker		
42 in	PPPP0	3UP50
Unger Trash Picker Replacement Pin for 3UP50 (10/Pkg.)		
6 ¼ in	15995	1VCE6

Fix-Clamp

Adjustable clamp tightly grips mops, brushes, sponges, rags, and chamois. Use with Unger OptiLoc and Tele-Plus telescoping poles, sold separately below.

Material	Mfr. Model	Item No.
Nylon Plastic	FIXI0	3U451

2-Section Extension Pole 3U442

Extension Poles and Adapters

OptiLoc Telescopic—Strong anodized aluminum poles are ideal for high window cleaning, dusting, and light bulb changing. Durable nylon locking collars lock and loosen in ½ turns.

Tele-Plus—5-section modular design offers versatile, multiple-length use.

Cranked Joint Angle Adapter—Holds a variety of tools and snaps into all Unger telescopic poles. Adjusts cleaning tools at any angle up to 300° for hard-to-reach applications.

Description	L	Mfr. Model	Item No.
Telescoping Poles			
OptiLoc Telescopic, 2-Section	96"	EZ250	3U442
OptiLoc Telescopic, 3-Section	144"	ED370	5DUU6
OptiLoc Telescopic, 2-Section	156"	EZ400	3U443
OptiLoc Telescopic, 3-Section	216"	ED550	3U444
Tele-Plus 5-Section	360"	TF900	4GU49
Adapter			
Cranked Joint Angle Adapter	11 ½ in	CJA00	2RNA6

Floor Scrapers

Light-Duty—48" lightweight aluminum handle with ergonomic grip and 4" zinc alloy head.

Medium-Duty—Lightweight 60" aluminum handle with angled 6" zinc alloy head for industrial use.

Heavy-Duty—Removes heavy-duty adhesives, tile, and carpet from floors. 60" handle with ergonomic grip, and 8" angled zinc alloy head.

Description	Mfr. Model	Item No.
Light-Duty Scraper with 4 in Blade	LH12C	3U446
4 in Replacement Blades for 3U446 (100/Case)	14421	3U447
Medium-Duty Scraper with 6 in Blade	MDSC0	5ZN24
6 in Replacement Blades for 5ZN24 (10/Pkg.)	MDSB0	5ZN23
Heavy-Duty Scraper with 8 in Blade	HDSS0	2RMZ6
8 in Replacement Blades for 2RMZ6 (10/Pkg.)	15993	2RMZ7

3U445

1NYH2

2RMZ4

Handheld Scrapers

Use the blunt edge for delicate, uneven floor surfaces and the razor edge for scraping gum, paint, tape, and caked-on dirt off smooth, hard surfaces such as tile floors and windows.

ErgoTec Scraper—Ergonomic nylon grip and 4" handle.

The Brute—Effective for multiple surfaces, and features an ergonomic grip. Reversible 4" blade and 12" handle.

MaxiScraper —Lightweight yet durable with ergonomic rubber nonslip comfort grip. Change blades with the push of a button. Safety cover snaps securely over blade.

Pro Trim 10—Fits in your hand or pocket. Textured surface and nonslip material for cold and wet conditions. Integrated blade guard locks open or closed for safe storage. Has two sharp edges.

ErgoTec Safety—Locking mechanism prevents blade from sliding out while working. Features a single-edge blade.

Description	Mfr. Model	Item No.
Handheld Scrapers		
ErgoTec Scraper	SH00C	3U445
The Brute	SH25C	2RMZ3
MaxiScraper	STMAX	1NYH2
Pro Trim 10	TX100	1NYH3
ErgoTec Safety	SR040	2RMZ4
Replacement Blades		
Replacement for 2RMZ4 (100/Pkg.)	SRB10	2RMZ5
Replacement for 1NYH3 (10/Pkg.)	TR100	5DUV1

Bulb Changers

- For standard, flood, and CFL bulbs
- Pole sold separately

Light Bulb Changer—Six steel fingers securely grip most bulbs. ⅔ of steel finger is rubber-coated.

Flood Bulb Changer—Six plastic suction cups adhere tightly to smooth recessed flood lights, round, beveled, and flat bulbs, and bulbs 300 watts or larger. Fully insulated.

Broken Bulb Remover—Includes a clear plastic dish to catch broken glass. Fully insulated.

Description	Mfr. Model	Item No.
Light Bulb Changer	BS010	3UP46
Flood Bulb Changer	FS000	3UP47
Broken Bulb Remover	BEBE0	3UP45

3UP47

3UP45

Silver K2498

Black D0199

Tan D0201

Silver 1LWT4

Black D0284

Yellow D0286

Black D0202

Tan D0289

Charcoal K2499

Black D0203

Free-Standing Cigarette Receptacles

Cap.	H	W	Base Dia.	No. of Openings	Opening Size	Material	▶CHOOSE: Color	Brand	Item No.
Cigarette Receptacles									
¼ gal	41 in	14 ½ in	14 ½ in	1	14½ in	Steel	Black, Silver	Tough Guy	**K2498** *
1 gal	30 in	11 in	11 in	2	1½ in	Polyethylene	Black, Green, Pewter, Tan, Terra Cotta	Justrite	**D0291** †
1 gal	38 ¼ in	14 in	13 in	2	1 in	Galvanized Steel, Plastic, Steel	Black, Sandstone	Rubbermaid	**D0199** †
1 gal	39 ½ in	12 ¼ in	12 ¼ in	2	11/16 in	Galvanized Steel, Plastic	Tan	Rubbermaid	**D0201** †
1 ¼ gal	37 ¾ in	15 ¼ in	15 ¼ in	2	¾ in	Plastic	Brown, Gray, Tan, Black	Eagle	**D0288** †
1 ¼ gal	39 ½ in	15 ½ in	15 ½ in	1	360°	Aluminum, Stainless Steel	Silver	Rubbermaid	**1LWT4** †
1 ½ gal	42 ¼ in	16 ¾ in	16 ½ in	3	2½ in	Stainless Steel	Black, Silver	Rubbermaid	**D0284** †
2 gal	35 in	11 in	11 in	2	¾ in	Galvanized Steel	Yellow, Tan	Eagle	**D0286** †
2 ½ gal	34 in	11 ½ in	11 ½ in	2	1½ in		Red	Justrite	**3RYZ3** †
4 gal	38 in	12 in	12 in	1	2 in	Polyethylene	Black, Gray, Tan	Justrite	**D0293** †
4 gal	38 ½ in	16 ½ in	16 ½ in	2	1½ in		Black, Green, Pewter, Tan, Terra Cotta	Justrite	**D0292** †
4 gal	39 in	13 in	13 in	4	3 in x 1 ¾ in	Aluminum, Stainless Steel	Black, Pewter, Brown	Rubbermaid	**D0202** †
4 gal	43 ¼ in	17 ¼ in	17 ¼ in	2	¾ in	Plastic	Black, Brown, Gray, Tan	Eagle	**D0289** †
4 ½ gal	39 in	16 in	16 in	1	1¼ in	Steel	Charcoal, Black	Tough Guy	**K2499**
4 ½ gal	39 in	16 in	16 in	1	1¼ in		Charcoal, Black	Tough Guy	**K2500** ‡
5 gal	38 in	11 ½ in	11 ½ in	2	1½ in	Stainless Steel	Red	Justrite	**3RYZ4** †
5 gal	40 in	12 in	12 in	2	¾ in	Galvanized Steel	Yellow, Tan	Eagle	**D0287** †
6 ¾ gal	41 ½ in	15 in	15 ½ in	3	360°	Aluminum, Stainless Steel	Black, Aged Bronze	Rubbermaid	**D0203** †
Weight Ring for D0201									
—	1 in	12 ½ in	—	—	—	Coated Steel	Black	Rubbermaid	**3NB44**

** Include liner and key. † FM approved. ‡ Include lock, cable, and in-ground anchor.*

11C824

1LWT5

6UGC9

5LY31

Wall-Mount Cigarette Receptacles

Cap.	H	W	Base Dia.	No. of Openings	Opening Size	Material	Color	Brand	Item No.
—	5"	8"	—	1	—	Coated Steel	Silver	Tough Guy	**1ECK8**
¼ gal	10 in	2 ½ in	6 in	1	5 in	Metal	Gray	Tough Guy	**11C824**
¼ gal	12 ½ in	3 ¾ in	9 ½ in	4	4 in	Stainless Steel	Silver	Tough Guy	**12V180** *
¼ gal	18 in	11 ½ in	12 ¾ in	1	360°	Aluminum, Stainless Steel	Silver	Rubbermaid	**1LWT5** †
½ gal	18 in	10 in	10 in	16	1 in	Stainless Steel	Silver	No Butts Bin Co.	**6UGC9** *
½ gal	18 in	10 in	10 in	16	1 in	Steel	Green	No Butts Bin Co.	**6UGD0** *
½ gal	18 in	10 in	10 in	16	1 in		Black	No Butts Bin Co.	**6UGD1** *
1 ½ gal	12 ½ in	10 in	10 in	2	11/16 in	Galvanized Steel	Black	Rubbermaid	**5LY31** ‡
1 ½ gal	12 ½ in	10 in	10 in	2	—	Stainless Steel	Silver	Rubbermaid	**9JAR0** ‡

** Include liner and key. † FM approved. ‡ Include liner, lock, (2) recessed Stainless Steel extinguishing screens, mounting hardware, and (2) keys.*

4PGG8

3VPX2

34AX17

Round/Half-Round Cans with Ashtray

Top Type	Cap.	H	Width/ Diameter	Material	Color	Brand	Item No.
Round							
Flat with Side Opening	12 gal	28 ¼ in	15 in	Steel	Silver	Tough Guy	**4PGG8**
Half-Round							
Flat with Side Opening	9 gal	32 in	17 ½ in	Stainless Steel	Black	Rubbermaid	**3VPX2**
	24 gal	28 in	24 in	Aluminum	Silver	Glaro	**34AX17**

48L067

48L066

48L068

Stainless Steel Ashtrays

Description	Cap.	H	W	Base Dia.	Color	Item No.
Floor Model with Removable Sand Top	1 ½ gal	20 in	10 in	10 in	Black	**48L067**
Floor Model with Removable Flip Top	13 ½ gal	20 in	10 in	10 in	Black	**48L066**
Pedestal with Removable Flip Top and Stainless Steel Blades	1 ¾ gal	22 in	10 in	8 in	Chrome	**48L068**

Lid Only 4T217 and Drum Only 5T262

Black E3932

Cigarette Receptacle Drums and Lids

Description	Cap.	H	W	Base Dia.	Material	▶CHOOSE: Color	Item No.	LID ONLY Item No.
Drum Only	30 gal	29 in	19 ¼ in	19 ¼ in	Steel	Gray	**1BW41**	**1BW40**
Drum Only	55 gal	34 ½ in	34 ½ in	23 ¾ in	Steel	Gray	**5T262** *	**4T217**
Drums with Lid	4 ½ gal	14 ¼ in	14 ¼ in	12 ¼ in	Steel	Black, Gray, White	**E3930** *	
Drums with Lid	6 gal	17 ¾ in	12 ¼ in	12 ¼ in	Aluminum, Steel	Black, Gray, White	**E3932** *	

** FM approved, UL Listed.*

Dome Top
Green
D0245

Plaza Series Outdoor Trash Cans

Fully covered top and spring-loaded doors hide waste, reduce odors, and keep out pests and rodents. Slide-out bag holder supports bag and keeps it open allowing workers to change bags without bending. A compatible rigid liner can be used in place of the bag holder to make this plastic container FM approved.

Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Plaza Jr.						
Dome with Push Door	35 gal	41 in	20 ¼ in	20 ¼ in	Black	**5MU51**
Ashtray/Dome with Push Door		41 in	20 ¼ in	21 ¼ in	Black	**5MU52**
Plaza						
Dome with Push Door		42 in	25 ¼ in	24 ¾ in	Beige, Black, Green	**D0245**
Food Tray	50 gal	43 ¼ in	25 in	25 in	Beige	**5RUU9**
Food Tray		43 ¼ in	25 in	25 in	Black	**5RUV0**

Canopy Top Trash Can
Black
D0237
With Optional Weighted Base
Black
D0241

Ranger Series Outdoor Trash Cans

Weather-resistant trash cans are suitable for collecting waste in areas exposed to rain, snow, and extreme temperatures. Hinged lid provides access to trash bag and hinged doors hide contents. Use in high-traffic areas such as parks, food courts, and stadiums.

Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans						
Dome with 2 Push Doors	35 gal.	41 in	21 ½ in	21 ½ in	Beige, Black	**D0235**
Dome with 2 Push Doors	45 gal.	41 ½ in	24 ¾ in	24 ¾ in	Beige, Black	**D0236**
Canopy	45 gal.	41 ½ in	24 ¾ in	24 ¾ in	Beige, Black	**D0237**
Accessory						
Weighted Base	45 to 65 gal.	6 in	24 ½ in	24½"	Beige, Black	**D0241**

Streetscape Outdoor Trash Cans

Heavy-duty steel slats around the outside with an integrated leakproof liner for collecting waste. All tops help funnel trash toward the opening.

Green
J6409

Black
22N330

Top Type	Cap.	H	Width/Diameter	▶CHOOSE: Color	Item No.
Funnel	37 gal	33 in	26 in	Black, Brown	**J6407**
Canopy	37 gal	42 in	26 in	Black, Brown, Green	**J6409**
Flat with Top Opening	45 gal	37 in	23 in	Black	**22N330**

Street Basket Series Outdoor Trash Can

Steel mesh sides resist rust and corrosion for collecting waste in harsh weather. The open top is accessible to passersby, making this trash can a good choice for parks, city streets, and other high-traffic areas. The perforated bottom allows rain and other liquids to drain.

Top Type	Cap.	H	Width/Diameter	Color	Item No.
Open	45 gal	33 in	24 in	Black	**2KDH2**

Classic Series Outdoor Trash Cans

Steel trash cans with perforated sides provide a professional appearance. They include a leakproof rigid liner to contain liquids and an open-top lid that hides the trash bag from sight. They are used in parks, at building entrances, and in parking garages for convenient trash disposal.

2KDJ3

Top Type	Cap.	H	Width/ Diameter	Specific Container Material	BLACK Item No.	SILVER Item No.	STAINLESS STEEL Item No.
Flat with Top Opening	25 gal.	35 ½ in	18 in	Steel	**2KDJ7**	**2KDJ5**	—
Flat with Top Opening	51 gal.	35 ½ in	24 in	Steel	**2KDJ8**	**2KDJ6**	—
Flat with Top Opening	25 gal.	35 ½ in	18 in	Stainless Steel	—	—	**2KDJ3**
Flat with Top Opening	51 gal.	35 ½ in	24 in	Stainless Steel	—	—	**2KDJ4**

Aspen Series Outdoor Trash Cans

Decorative stone panels provide a finished appearance when collecting waste in outdoor areas, such as building entrances, parking garages, and storefronts. Powder-coat finish is UV-resistant to resist fading and damage caused by exposure to changing weather. Fire-resistant cans include leakproof, rigid plastic liners. Use with a trash bag to keep cans clean and ease trash pickup.

3THU6

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Canopy	38 gal	40 in	26 in	26 in	Brown	**3THU6**
Canopy	45 gal	40 in	26 in	26 in	Brown	**3THV5**

Round Steel Mesh Outdoor Trash Cans

Made of rust-resistant steel to collect waste in harsh conditions, including wind, rain, and snow. They provide a professional appearance in parks, office parks, storefronts, and outdoor walkways.

Dome
Top
13P564

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Flat with Top Opening	33 gal	32 in	18 ¼ in	Black	**5UJC2**
Dome	34 gal	44 in	18 in	Black	**13P564**
Dome	40 gal	39 in	24 in	Black	**13P565**

Americana Series Metal Outdoor Trash Can

Open top provides hands-free disposal. Powder-coated steel maintains its appearance when exposed to weather and sunlight. Can is heavy to help prevent theft and keep it in place during harsh weather conditions. Adjustable legs allow can to be placed on uneven surfaces.

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Flat with Top Opening	36 gal	32 ½ in	29 in	Black	**9HT32**

Ashtray/Canopy Top
5M843

Landmark Series Outdoor Trash Can Frames and Panels

Plastic frames have open sides and a leak-proof rigid liner. Add decorative rock panels to suit the application or environment. All four sides are open for tossing trash. Use with a trash bag to help keep liners clean and ease trash collection. Bolt-down base prevents tipping or moving. Rugged construction withstands exposure to weather.

Top Type	Cap.	H	Width/ Diameter	D	Color	FRAMES Item No.	PANELS Item No.
Canopy	50 gal	46 ½ in	26 in	26 in	Sable	**5W767**	**5W768**
Ashtray/Canopy	35 gal	40 in	26 in	26 in	Sable	**5M833**	**5M856**
Ashtray/Canopy	50 gal	46 ½ in	26 in	26 in	Sable	**5M843**	**5W768**

Rubbermaid Commercial Products

Glutton Series Square Plastic Outdoor Trash Cans and Tops

Hold more trash than round cans with a similar footprint. Heavy-duty plastic resists fading, cracking, and denting, and are lighter and more dent-resistant than metal cans making them easier to move. Collect and contain waste with or without trash bags. Cans and tops sold separately.

Description	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Glutton Open Top Trash Cans, 56-gal. Cap.	31 in	25 ½ in	22 ¾ in	Brown, White	D0248
Glutton Canopy Tops, For Use with D0248	13 in	23 in	—	Brown, Red	D0247

Canopy Top Red D0247

Trash Can White D0248

DOGIPOT Pet Waste Stations

DOGIPOT The Smart Solution to Dog Pollution

Place in common areas where people exercise their pets, and dog training areas for convenient access to a trash receptacle and pet waste bags. 3VLL5 Pet Station includes pet sign, roll bag dispenser, telescopic mounting post, and pet waste container for use with 8XD05. 9LDM5, 8NKC5, and 8ZCE8 roll bags are also available. 3VLN8 container holds 8XD05 roll bags. 36MX74 is a versatile aluminum header pack bag dispenser for use with 36MX75.

Description	Cap.	W	L	H	Item No.	Pkg. Qty.
Station						
Pet Waste Station	10 gal.	14 in	11½"	78 in	3VLL5	1
Pet Waste Container	10 gal.	—	—	23 in	3VLN8	1
Pet Waste Bag Dispenser	48 oz.	9¹³⁄₃₂"	15 ½ in	15 ½ in	36MX74	1
Bags						
200 Bags per Roll	8 oz	8 in	13"	13 in	9LDM5	10
200 Bags per Roll	8 oz	8 in	13"	13 in	8NKC5	20
200 Bags per Roll	8 oz	8 in	13"	13 in	8ZCE8	30
Header - 100 Bags per Pack	8 oz	8 in	13"	13 in	36MX75	20
Interleaf - 50 Bags per Roll	15 gal	27 ½ in	29"	29 in	8XD05	1

3VLL5

CrownProducts, LLC

Poopy Pouch Pet Waste Station

Pet waste station combines a bag dispenser and trash can for placement in common areas where people exercise their pets. Weather-resistant station includes 8-ft. steel channel post, 10-gal. steel waste receptacle with hinged steel lid and bag retainer bands, steel bag dispenser with security lock, 800 leakproof waste bags (4 boxes of 200 bags each), and a 12" x 18" steel sign ("Please Clean Up After Your Dog"). Use with replacement bags 19XZ86.

Description	Cap.	W	L	H	Item No.	Pkg. Qty.
Station						
Pet Waste Station with Channel Post	10 gal.	12 in	12½"	96 in	19XZ87	1
Bags						
Lemon Scented, 400 Bags per Roll	¾ gal	5 in	15"	15 in	4ACD2	6
Unscented, 200 Bags per Roll	¾ gal	8 in	—	13 in	19XZ86	10

19XZ87

Rubbermaid Commercial Products · Glaro · Tough Guy

Round Metal Trash Cans

Metal provides a finished appearance and resists odors and staining. Cans are rust-resistant, won't crack in cold weather, and won't be chewed by pests or rodents.

Top Type	Cap.	Width/ Diameter	H	Brand	Item No.
Aluminum					
Flat with Top Opening	21 gal	18 in	32 in	Rubbermaid	2KDP7
	30 gal	20 in	34 ½ in	Rubbermaid	43WY88
	55 gal	24 in	35 in	Rubbermaid	2KDP8
Swing	16 gal	15 in	33 in	Glaro	34AW90
Galvanized Steel					
Open	20 gal	18 in	23 ¼ in	Tough Guy	2PYX5
	31 gal	21 in	27 in	Tough Guy	2PYW6
Stainless Steel					
Flat with Top Opening	18 gal	15 in	28 in	Tough Guy	48L069
Dome	18 gal	15 in	31 in	Tough Guy	48L070
Funnel	33 gal	19 ½ in	32 in	Tough Guy	48L071
Steel					
Flat with Top Opening	15 gal	10 in	27 ¾ in	Tough Guy	4PGG9

2KDP7

2PYX5

Rubbermaid Commercial Products · JUSTRITE · Tough Guy

Fire-Resistant Metal Trash Cans

Use indoors and outdoors to collect waste in office buildings, parking garages, walkways, and other high-traffic areas. Metal doesn't absorb odors, resists fire and corrosion, and will not warp when used in hot or sunny locations or crack in cold weather. Open-top design fits under a desk or table or against a wall to save space.

2KDZ2

4PGH1

Container Shape	Top Type	Cap.	Width/ Diameter	H	▶CHOOSE: Color	Brand	Item No.
Aluminum							
Round	Flat with Top Opening	35 gal	18 in	32 in	Silver	Rubbermaid	4HGR8
Steel							
Rectangular	Open	24 gal	21 in	30 in	Almond	Rubbermaid	2KDZ2
Round	Funnel	12 gal	15 in	29 ¾ in	Red/Gray	Justrite	3VLD4
Round	Funnel	15 gal	15 in	25 ¾ in	Black, Gray	Justrite	E7284
Round	Flat with Top Opening	35 gal	17 ¾ in	32 ¼ in	Silver	Tough Guy	4PGH1

Glaro · Tough Guy

Round Metal Wastebaskets

Durable metal construction resists odors and staining, and is professional in appearance.

34AX11

11C818

Top Type	Cap.	H	Width/ Diameter	Color	Brand	Item No.
Aluminum						
Open	6 gal	23 in	9 in	Silver	Glaro	34AX11
Steel						
Open	7 gal	14 ¼ in	13 ¼ in	Gray	Tough Guy	11C815
Open	7 gal	14 ¼ in	13 ¼ in	Brown	Tough Guy	11C816
Open	7 gal	14 ¼ in	13 ¼ in	Black	Tough Guy	11C817
Open	11 ½ gal	17 in	15 in	Gray	Tough Guy	11C818

Tough Guy

Square Metal Trash Cans

22N320

Higher capacity than round cans that use the same amount of floor space, these square trash cans can be placed in a corner or flush against a wall. Multiple cans can be placed adjacent to each other without a gap. Include leakproof rigid plastic liner.

Top Type	Cap.	H	Width/ Diameter	D	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.
Flat with Top Opening	24 gal	30 in	15 ¾ in	15 ¾ in	5UJD1	5UJD4	5UJD2	5UJD3
Flat with Top Opening	36 gal	35 ½ in	18 ½ in	18 ½ in	22N320	22N323	22N321	22N322

Tough Guy

Rectangular Metal Trash Cans

22N303

Taller with a larger capacity than wastebaskets. The flat sides allow them to be placed flush with the wall, making them a good choice for small spaces or high-traffic areas where waste is collected. Metal is rust-resistant and does not absorb odors.

Top Type	Cap.	H	Width/ Diameter	D	BLACK Item No.	BLUE Item No.	GREEN Item No.	RED Item No.
Flat with Top Opening	17 gal	35 ½ in	18 ¼ in	15 in	22N299	22N303	22N301	22N302

Lightweight Round Steel Mesh Metal Wastebasket

Rubbermaid Commercial Products

Smaller capacity trash receptacle for indoor use against a wall or under a desk. Mesh sides provide air flow. No-snag, curled rim protects clothing and the vinyl base ring protects floors. Steel construction is durable and resists odors and staining.

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Open	5 gal	14 in	11 ½ in	Silver	1LYL9

Fire-Resistant Wastebaskets

Durable steel wastebaskets collect and contain waste wherever small-capacity trash containers are needed indoors; resist odors and staining. Fiberglass wastebaskets have a narrow design to save floor space and resist chipping and denting; will not rust.

Black E7278

5M745

Material	Cap.	▶CHOOSE: Color	H	Width/ Diameter	D	Brand	Item No.
Round, Funnel Top							
Steel	4 ½ gal	Black, White	14 ¼ in	12 in	—	Justrite	E7274
Steel	6 gal	Black, White	16 ¾ in	12 in	—	Justrite	E7278
Rectangular, Open Top							
Fiberglass	1 ½ gal	Beige	10 in	6 ¼ in	6 ½ in	Tough Guy	4PGL2
Fiberglass	3 ½ gal	Beige, Black, Gray	12 ¼ in	8 ¼ in	8 ¼ in	Tough Guy	D2117
Fiberglass	3 ½ gal	Beige, Black, Gray	12 ¼ in	8 ¼ in	11 in	Rubbermaid	F9111
Fiberglass	7 gal	Beige, Black, Gray	15 ¼ in	10 ½ in	10 ½ in	Tough Guy	D2118
Fiberglass	7 gal	Beige, Black, Gray	15 ½ in	10 ½ in	14 ½ in	Rubbermaid	F8449
Fiberglass	10 gal	Beige	20 in	15 in	11 ¼ in	Tough Guy	4PGL9
Fiberglass	10 gal	Beige	20 in	11 ¼ in	15 in	Rubbermaid	5M745

Rectangular Plastic Wastebaskets

Smaller to fit under a table or desk or against a desk or wall without sacrificing foot space. Plastic is dent-resistant and won't break or rust.

Gray D2128

Description	Cap.	W	H	▶CHOOSE: Color	Brand	Item No.
Vanity	1 ¾ gal	6 ¾ in	10 in	Beige	Tough Guy	4PGN1
Small	3 gal	8 ¼ in	12 in	Beige, Gray, Black	Rubbermaid	F9114
Small	3 ½ gal	12 in	12 in	Black	Tough Guy	D2128
Small	3 ½ gal	12 in	8 in	Beige, Gray	Tough Guy	D2128
Medium	7 gal	14 ½ in	15 in	Gray, Beige, Black	Rubbermaid	F9113
Medium	7 gal	10 13/64 in	15 ¼ in	Black	Tough Guy	D2129
Medium	7 gal	10 ½ in	15 ¼ in	Beige, Gray	Tough Guy	D2129
Large	10 gal	12 ⅝ in	18 ¼ in	Black, Beige, Gray	Tough Guy	D2131

Half-Round Metal Wastebaskets

These stainless steel wastebaskets can be placed flush against a wall to save floor space. Collect and contain waste in hallways, break rooms, meeting areas, and other locations where floor space is limited.

4PGG7

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Flat with Side	9 gal	32 ¼ in	17 ¾ in	8 ¾ in	Silver	4PGG6
Opening	9 gal	32 ¼ in	17 ¾ in	8 ¾ in	Black	4PGG7

Refine Series Metal Trash Cans

Brushed stainless steel cans feature built-in liner cinches, commercial-grade, anti-skid feet, and integrated handles. Dome-top lids lift off for easy access to bag. Collect and contain waste in hallways, break rooms, meeting areas, and other locations where floor space is limited.

61JA17

Container Shape	Cap.	H	Width/ Diameter	D	Color	Item No.
Round	16 gal	26 3/10 in	15 9/10 in	15 9/10 in	Silver	61JA17
Round	23 gal	29 ⅗ in	17 7/10 in	17 7/10 in	Silver	61JA18
Half-Round	16 gal	29 ½ in	12 ⅖ in	18 ⅕ in	Silver	61JA19
Half-Round	21 gal	29 ½ in	13 7/10 in	19 7/10 in	Silver	61JA20

Recessed Metal Trash Cans for Bathrooms

Recessed trash cans install in wall to save bathroom floor space. Stainless steel won't absorb odors, can be sterilized, and provides a finished appearance. An integrated opening allows a towel dispenser to be installed.

2NY14

Top Type	Cap.	H	Width/ Diameter	Color	Item No.
Flat	5 ½ gal	59 in	15 in	Silver	468G38
Flat	7 gal	61 in	15 in	Silver	468G37
Flat	10 gal	61 ½ in	16 ¾ in	Silver	468G39
Open	10 gal	56 in	17 ¼ in	Silver	2NY14
Open	9 ½ gal	60 in	17 ¼ in	Silver	2NY15

Silhouettes Metal Trash Cans

Contemporary trash cans have flat top openings and feature a perforated pattern that blends with modern facilities and environments. Metal is rust-resistant and does not absorb odors. Half-round and rectangular cans are made of fire-resistant, perforated metals.

2KDR5

2KDR1

Material	Cap.	H	Width/ Diameter	D	BLACK Item No.	SILVER Item No.
Fire-Resistant Half-Round						
Stainless Steel	12 gal	32 in	17 ½ in	8 ¾ in	—	2KDT5
Steel	12 gal	32 in	17 ½ in	8 ¾ in	2KDT6	2KDT7
Fire-Resistant Rectangular						
Stainless Steel	13 gal	30 in	9 ¾ in	19 ¼ in	—	2KDR4
Stainless Steel	22 ½ gal	30 in	12 in	24 in	—	2KDR5
Steel	13 gal	30 in	9 ¾ in	19 ¼ in	—	2KDR9
Steel	22 ½ gal	30 in	12 in	24 in	—	2KDT1
Square						
Stainless Steel	16 gal	30 in	14 ¾ in	14 ¾ in	—	2KDR1
Stainless Steel	20 gal	30 in	18 ¼ in	18 ¼ in	—	2KDR2
Steel	16 gal	30 in	14 ¾ in	14 ¾ in	—	2KDR6
Steel	20 gal	30 in	18 ¼ in	18 ¼ in	2KDT3	2KDR7
Steel	24 gal	30 in	14 ¾ in	14 ¾ in	2KDT2	—
Steel	40 gal	31 ½ in	21 ½ in	21 ½ in	—	2KDR8

Gray J2223

Blue F8894

Gray D5944

Gray D5923

Heavy-Duty Plastic Trash Cans and Lids

Resist dents, cracking, fading, and corrosion. Use for general trash collection in back-of-house settings such as kitchens and janitorial facilities. They can be used with or without a trash bag. Match lids with the Brand and Capacity you need for the perfect fit. 6TUC1 converts any 32-gal. round Rubbermaid can below into a recycling container. See page 1558 for more recycling options.

Cap.	▶CHOOSE: Color	Brand	Item No.
Round Trash Cans			
10 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J6001
20 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J2222
20 gal	Blue, Gray	Tough Guy	D5943
32 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J2223
32 gal	Blue, Gray, Red, White, Yellow	Tough Guy	D5944
44 gal	Black, Blue, Gray, Red, Yellow	Rubbermaid	D1926
44 gal	Blue, Red, Yellow	Tough Guy	D5945
44 gal	Gray	Tough Guy	5DMT9
55 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J6002
55 gal	Gray	Tough Guy	5DMU6
"Inedible" Bilingual Round Trash Cans			
32 gal	Gray	Rubbermaid	3TB47
44 gal	Gray	Rubbermaid	3TB48
Square Trash Cans			
16 gal	—	Tough Guy	D2629
28 gal	Gray, Red	Rubbermaid	D1928
35 gal	Beige, Gray	Tough Guy	D2109
40 gal	Gray	Rubbermaid	D1929

Top Type	For Container Capacity	▶CHOOSE: Color	Brand	Item No.
Round Recycling				
Flat	32 gal	Blue	Rubbermaid	6TUC1
Round				
Dome with Push Door	32 gal	Blue, Gray, Red	Rubbermaid	F8894
Dome with Push Door	44 gal	Blue, Gray, Red	Rubbermaid	D1932
Dome with Push Door	55 gal	Gray, Red	Rubbermaid	D1933
Flat	10 gal	Gray, White	Rubbermaid	J6003
Flat	10 gal	Gray, White	Tough Guy	D5925
Flat	20 gal	Black, Blue, Gray, Green, White, Yellow	Rubbermaid	D1935
Flat	20 gal	Blue, Gray, White, Yellow	Tough Guy	D5924
Flat	32 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J2224
Flat	32 gal	Blue, Gray, Red, White, Yellow	Tough Guy	D5923
Flat	44 gal	Black, Blue, Gray, Red, White, Yellow	Rubbermaid	D1937
Flat	44 gal	Blue, Gray, Red, White, Yellow	Tough Guy	D5922
Flat	55 gal	Black, Blue, Gray, Green, Red, White, Yellow	Rubbermaid	J6004
Flat	55 gal	Gray	Tough Guy	5DMX7
Funnel	32 gal	Gray	Rubbermaid	5M809
Square				
Flat	28 gal	Gray, White	Rubbermaid	D1938
Flat	32 gal	Gray, Red	Tough Guy	D5921
Flat	40 gal	Gray, White	Rubbermaid	D1939

Scan. Order. Done.
Details on page A1.

Rigid Plastic Liners for Trash Cans

TOUGH GUY

Use inside trash cans to hold trash bags and to receive waste.

Top Type	Cap.	H	Width/ Diameter	▶CHOOSE: Color	Item No.
Rectangular					
Open	42 gal	29 in	23 ¼ in	Gray	**5M746**
Round					
Open	12 gal	27 ¼ in	10 in	Gray	**4PGH3**
Open	22 gal	30 in	15 in	Gray	**4PGH4**
Square					
Open	23 gal	31 in	16 in	Beige, Gray, Brown	**D2124**
Open	25 gal	31 in	12 ¼ in	Gray	**4PGH7**
Open	50 gal	34 in	12 ¼ in	Gray	**4PGH5**

4PGH5

5W007

6DMX9

4HC22

450Y38

Rubbermaid Commercial Products BRUTE · TOUGH GUY

Trash Can Dollies

Use to mount, secure, and keep cans in good working order. Wheeled trash can dollies provide a secure base for trash cans and transport cans around a facility without dragging or lifting. Anchor dollies secure to the ground to prevent cans from tipping.

Description	For Container Cap.	Load Cap.	H	Dia.	Color	Brand	Item No.
Round Quiet Trash Can Dolly	20 to 55 gal	250 lb	6 ½ in	18¼"	Black	Rubbermaid	**4NY79**
Round Trash Can Dollies	20 to 55 gal	250 lb	6 ½ in	18¼"	Black	Rubbermaid	**5W007**
	32 to 55 gal	300 lb	6 ¾ in	24"	Black	Tough Guy	**6DMX9**
Square Trash Can Dolly	28 gal	300 lb	6 ¼ in	—	Black	Rubbermaid	**4HC22**
Construction and Landscape Dolly with Handle	32 to 55 gal	250 lb	28 ½ in	—	Red	Rubbermaid	**450Y38**

Half-Round Plastic Trash Cans

TOUGH GUY

Place against a wall to save floor space in hallways, break rooms, and other places where space is limited. Plastic resists dents and won't rust or chip. An open top makes it easy to add trash and change trash bags. D2127 cans include rigid plastic liner. 4PGR5 dome push door top is made to fit these trash cans.

4PGR5

Gray D2127

Description	Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans	Open	21 gal	28 ½ in	21 ½ in	9 in	Gray, Beige	**D2127**
Trash Can Top	Dome with Push Door	21 gal	9 in	12 ½ in	12 ½ in	Black	**4PGR5**

(3) 53CK42 Dollies Shown - Trash Cans and Lids Sold Separately

Yellow J6251

Rubbermaid Commercial Products

Slim-Profile Slim Jim Rectangular Plastic Trash Cans, Lids, and Dollies

Plastic trash cans won't chip and resist dents and rust. Cans with venting channels help reduce the force needed to remove a full trash bag. Trash can lids are compatible with 23-gallon Slim Jim trash cans. Connectable dollies lock 2 or more cans together to move multiple units in 1 trip, or use individually.

Top Type	Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Item No.
Trash Cans with Venting Channels						
Open	16 gal	25 in	11 in	22 in	Beige, Black, Blue, Brown, Gray, Green	**J6250**
Open	23 gal	30 in	11 in	22 in	Beige, Black, Gray	**D1941**
Open	23 gal	30 in	11 in	22 in	Blue, Brown, Green, Red, Yellow	**J6251**
Wall-Mounted, Fire-Resistant Trash Cans						
Dome with Push Door	15 gal	32 ½ in	11 ¾ in	19 ½ in	Brown	**D1943**

Description	For Container Capacity	Load Capacity	H	▶CHOOSE: Color	Item No.
Lids and Dollies					
Trash Can Lid	23 gal	—	5 in	Black, Gray, Tan	**F8416**
Connectable Container Dolly	16 to 23 gal	200 lb	10 ¾ in	Black	**53CK42**
Container Dolly	16 to 23 gal	100 lb	9 in	Gray	**49AJ51**

Gray 4PGU1

TOUGH GUY

Slim-Profile Rectangular Plastic Trash Cans and Lids

Beige D2104

Place flush against a wall or in a corner in breakrooms, copy rooms, and other areas with limited floor space. Plastic cans won't chip and resist dents and rust. Lids are compatible with Tough Guy brand cans to help contain waste and odors, keep out water, and keep pests from disrupting waste.

Top Type	Cap.	▶CHOOSE: Color	H	Width/ Diameter	D	Item No.
Trash Cans						
Open	16 gal	Beige, Blue, Gray	25 in	11 ¾ in	20 in	**D2104**
Open	23 gal	Beige, Gray	29 ¾ in	11 ¼ in	20 in	**D2105**

Description	Top Type	For Container Capacity	Lid Connection	No. of Openings	Color	H	Width/ Diameter	D	Item No.
Lids									
Trash Can Lids	Drop	23 gal	Snap On	1	Gray	4 ¾ in	11 ½ in	11 ¾ in	**4PGU1**
	Dome	23 gal	Snap On	0	Gray	3 in	11 ½ in	11 ¾ in	**4PGU2**
Bottle and Can Recycling Lids	Dome	23 gal	Snap On	2	Brown	3 in	11 ½ in	22 ¼ in	**4PGU3**
	Dome	23 gal	Snap On	2	Green	3 in	11 ½ in	22 ¼ in	**4PGU4**

3BU49

3BU52

Rubbermaid Commercial Products BRUTE

Confidential Waste Trash Cans

A slot in the locking lid helps maintain privacy and keep documents secure until they can be disposed of according to regulations. Use indoors where medical, personal, or confidential documents are used or accessed.

Description	Cap.	D	W	H	Color	Opening Closure Type	Item No.
Slim-Profile Slim Jim Confidential Waste Trash Can	23 gal	11 ¼ in	11"	30 in	Gray	Snap-On	**3BU49**
Rollout Confidential Waste Trash Can, Wheeled	65 gal	31 ¾ in	25½"	48 in	Gray	Lift Up	**3BU52**
Replacement Rollout Axle Carriage for 3BU52							**33PZ28**

Rubbermaid Commercial Products
BRUTE

53PY26

Heavy-Duty Rectangular Plastic BRUTE Rollout Trash Cans

Use for curbside trash pickup and in warehouses and other commercial facilities where trash is collected and transported. Treaded wheels keep the can from slipping when moved over slick or uneven surfaces. The attached lid opens fully to allow access to the entire can and keeps trash and odors contained when closed. Each trash can includes (2) heavy-duty wheels.

Cap.	H	Width/ Diameter	D	BLUE Item No.	GRAY Item No.	YELLOW Item No.
32 gal	37 ¼ in	20 ½ in	28 ½ in	**53PY26**	**53PY25**	—
50 gal	36 ½ in	24 in	30 in	**5MU55**	**5MU53**	**5MU54**
65 gal	41 ¾ in	25 ¼ in	25 ¼ in	**1EC46**	**1EC45**	—
95 gal	45 ½ in	28 ¾ in	25 ¼ in	**1EC49**	**1EC48**	—

Rubbermaid Commercial Products
BRUTE

53PY33

Heavy-Duty Rectangular Plastic BRUTE Rollout Step Trash Cans

Foot-activated pedal opens the lid when pressed, freeing hands for maneuvering waste. Commercial-grade wheels support heavy loads. Lids open fully and stay in place during transport. Compatible with auto-lifters.

Cap.	H	Width/Diameter	D	BLUE Item No.	GRAY Item No.
Include (2) Heavy-Duty Wheels					
32 gal	37 ¼ in	20 ½ in	28 ½ in	**53PY28**	**53PY27**
50 gal	39 ¾ in	24 in	30 in	**53PY34**	**53PY33**
65 gal	44 ¾ in	25 ¼ in	32 ½ in	—	**53PY39**
95 gal	46 in	28 ½ in	37 ¼ in	**53PY47**	**53PY46**
Includes (2) Heavy-Duty Wheels, (2) Front Swivel Casters					
50 gal	39 ¾ in	24 in	30 in	—	**53PY37**

Beige
G8985

Red
F9108

White
G8986

TOUGH GUY
Rubbermaid Commercial Products

Rectangular Plastic Step Trash Cans

Collect trash where floor space is limited, such as in breakrooms and restrooms. The low-profile design allows these to be placed against walls where floor space is limited. Place Slim Jim slim-profile cans flush against a wall or in a corner to maximize space.

Cap.	H	Width/ Diameter	D	▶CHOOSE: Color	Brand	Item No.
Rectangular						
8 gal	16 ¾ in	16 in	15 ¼ in	Beige, Red, White	Tough Guy	**G8984**
8 gal	17 in	16 ¼ in	15 ¾ in	Beige, Red, White	Rubbermaid	**F9110**
12 gal	23 ½ in	16 ¼ in	15 in	Beige, Red, White	Rubbermaid	**F9109**
12 gal	23 ¾ in	16 ¼ in	15 ¾ in	Beige, Red, White	Tough Guy	**G8985**
18 gal	25 in	19 ¼ in	16 in	Beige	Tough Guy	**6YLP3**
18 gal	25 in	19 ¼ in	16 in	Red	Tough Guy	**6YLP4**
18 gal	25 in	19 ¼ in	16 in	White	Tough Guy	**6YLP5**
18 gal	26 ½ in	19 ¾ in	14 ¾ in	Beige, Red, White	Rubbermaid	**F9108**
23 gal	31 in	19 ¼ in	16 in	Beige, Red, White	Tough Guy	**G8986**
23 gal	32 ½ in	19 ¾ in	16 ½ in	Beige, Red, White	Rubbermaid	**F9093**
Slim Jim Slim Profile Rectangular						
8 gal	21 in	16 ½ in	10 ½ in	Beige, Red, White	Rubbermaid	**J2232**
24 gal	32 ½ in	22 ¼ in	13 ¾ in	Beige, White	Rubbermaid	**J2230**
24 gal	32 ½ in	22 ¼ in	13 ¾ in	Red	Rubbermaid	**45TR96**

Rectangular Metal Step Trash Cans

Rubbermaid Commercial Products

45UZ81

Stainless steel trash cans with flat tops and increased clearance to access step pedal. The low-profile design allows placement against walls in restrooms and breakrooms. Include plastic liner.

Cap.	Finish	H	Width/ Diameter	D	Color	Item No.
4 gal	Brushed	19 in	15 ¼ in	11 ¾ in	Silver/Black	**45UZ78**
8 gal	Brushed	25 in	16 ¾ in	12 ¾ in	Silver/Black	**45UZ81**
13 gal	Brushed	28 ¾ in	18 in	13 ½ in	Silver/Black	**38UJ43**
24 gal	Brushed	31 ¾ in	21 ¾ in	16 in	Silver/Black	**45NY45**

Oval Metal Step Trash Cans

TOUGH GUY

6ZCL0

A flat back allows these stainless steel/plastic cans to be placed against a wall to save floor space where waste needs collecting. A foot-activated pedal opens the lid when pressed and allows hands-free use to help limit the spread of germs and keep hands clean.

Cap.	H	Width/ Diameter	D	Color	Finish	Item No.
2 ½ gal	17 ½ in	15 ¾ in	11 ¾ in	Silver	Satin	**6ZCL0**
8 gal	27 in	14 ¾ in	13 ½ in	Silver	Satin	**6ZCL1**
13 gal	27 ¾ in	18 in	16 in	Silver	Satin	**6ZCL2**

2KDU9

2KDV1

5LY26

Rubbermaid Commercial Products

Defenders Square Metal Step Trash Cans

Hold more waste than round cans that take up a similar amount of floor space in hospitals and healthcare facilities. Place next to each other without gaps, against a wall, or in a corner to keep cans out of traffic areas. Foot-activated pedal opens the can without using hands. Include plastic liner.

Top Type	Cap.	H	Width/ Diameter	D	RED Item No.	SILVER Item No.	WHITE Item No.
Flat	7 gal	17 in	14 ¼ in	13 ½ in	**2KDU7**	**2KDU8**	**5LY26**
Flat	12 gal	23 in	14 ¼ in	13 ½ in	**2KDU9**	**2KDV1**	**5LY27**
Flat	24 gal	30 in	16 ¾ in	16 in	—	**5LY29**	—
Flat	13 gal	30 in	16 ¾ in	16 in	**2KDV2**	—	**5LY28**

4PGJ3

6ZCL4

4PGJ2

TOUGH GUY

Round Metal Step Trash Cans

Foot-activated cover provides hands-free use while hiding contents and containing odors. Round cans collect waste in schools, hospitals, offices, and other indoor locations.

Top Type	Cap.	H	Width/ Diameter	Color	Finish	Includes	Item No.
Stainless Steel							
Flat	3 ½ gal	15 ¾ in	10 in	Silver	Mirror	Plastic Liner	**4PGH9**
Flat	8 gal	25 in	11 ¾ in	Silver	Mirror	Galvanized Liner	**4PGJ3**
Dome	10 gal	31 ½ in	13 ¾ in	Silver	Brushed	Galvanized Liner	**6ZCL4**
Steel							
Flat	3 ½ gal	15 ¾ in	10 in	Red	Powder Coated	Plastic Liner	**4PGJ2**
Flat	3 ½ gal	15 ¾ in	10 in	White	Powder Coated	Plastic Liner	**4PGH8**
Flat	8 gal	25 in	11 ¾ in	White	Powder Coated	Galvanized Liner	**4PGJ1**
Dome	10 gal	31 ½ in	13 ¾ in	Black	Powder Coated	Galvanized Liner	**6ZCL6**

Metal Recycling Cans

Collect recyclable materials in office buildings, hotels, and other public spaces where appearance is important. Metal provides a more finished look than plastic cans.

5UJC1

22N274

Top Type	Cap.	H	Width/ Diameter	D	Color	Item No.
Rectangular						
Steel						
Flat with Top Opening	(2) 18 gal	31 in	28 in	14 in	Brown	22N275
	(2) 18 gal	31 in	28 in	14 in	Silver	22N276
	(3) 18 gal	31 in	42 in	14 in	Brown	22N277
	(3) 18 gal	31 in	42 in	14 in	Silver	22N278
Round						
Plastic, Stainless Steel						
Flat with Top Opening	33 gal	32 in	18 in	—	Silver	5UJC1
Steel						
Flat with Top Opening	(3) 4 ½ gal	28 in	15 in	15 in	Silver	22N279
Square						
Flat with Top Opening	18 gal	31 in	14 in	14 in	Brown	22N273
	18 gal	31 in	14 in	14 in	Silver	22N274

Sustain Series Square Metal Recycling Stations

Integrated plastic liners with venting channels enable easy removal of trash bags. Adjustable, easy-glide feet allow container to be moved efficiently and ensure a level placement. Modular system allows stations to be customized to each program's needs. Colored lids and labels make sorting recyclables easier.

61JA22

61JA23

61JA24

Width/ Diameter	D	H	Color	Container Markings	Item No.
15 gal Cap.					
16 27/50 in	20 87/100 in	39 37/100 in	Black/Charcoal	Landfill	61JA22
16 27/50 in	20 87/100 in	39 37/100 in	Black/Blue	Mixed Recycling	61JA23
16 27/50 in	20 87/100 in	39 37/100 in	Black/Green	Compost	61JA24
23 gal Cap.					
20 47/100 in	20 87/100 in	39 37/100 in	Black/Charcoal	Landfill	61JA25
20 47/100 in	20 87/100 in	39 37/100 in	Black/Blue	Mixed Recycling	61JA26
20 47/100 in	20 87/100 in	39 37/100 in	Black/Green	Compost	61JA27

Rectangular Plastic Recycling Wastebaskets

Fit under standard-height desks where floor space is limited or place near workstations and conference rooms. Plastic resists dents and corrosion, and is lighter than metal so it's easier to empty when full.

5M781

4LZL2

Cap.	H	Width/ Diameter	D	Color	Brand	Item No.
3¼ gal.	12 in	10 ½ in	14 ½ in	Blue	Rubbermaid	5M781
3½ gal.	12 in	8 in	11 ½ in	Blue	Tough Guy	4UAU4
7 gal.	15 in	10 ½ in	14 ½ in	Green	Rubbermaid	4LZL2
7 gal.	15 in	10 ½ in	14 ½ in	Blue	Rubbermaid	5M785
7 gal.	15 ¼ in	10 ½ in	14 ½ in	Blue	Tough Guy	4UAU5
10¼ gal.	18 ¼ in	12 ¾ in	16 ½ in	Blue	Tough Guy	4UAU6

Slim-Profile Rectangular Plastic Recycling Cans and Lids

Narrower than standard rectangular cans, use in areas that generate medium-to-high volumes of recyclables, including copy rooms and breakrooms. Place flush against a wall to limit the amount of floor space used. Order cans and tops separately.

2FTG6

4PGU9

6TUA3

Cap.	H	Width/ Diameter	D	Brand	BLUE Item No.	GREEN Item No.
Slim Jim Slim-Profile Recycling Cans with Venting Channels						
23 gal	30 in	11 in	22 in	Rubbermaid	2FTG5	2FTG6
Slim-Profile Recycling Cans						
23 gal	29 ¾ in	11 ½ in	20 in	Tough Guy	4PGU9	10F626
All-Purpose Recycling Tops for Slim Jim Can 2FTG5 and 2FTG6						
—	2 ¾ in	11 ½ in	20 ½ in	Rubbermaid	6TUA3	6TUA4
Indoor Recycling Top with Paper Slot for Can 4PGU9						
—	2 ¾ in	11 ½ in	20 ½ in	Tough Guy	4UAV3	—

BRUTE Series Round Plastic Recycling Cans

Use to collect high volumes of recyclable materials. Heavy-duty plastic with built-in handles. Reinforced base helps prevent damage caused by rough handling and dragging.

35ZU65

Cap.	Width/ Diameter	H	Color	Item No.
20 gal	19 ½ in	23 in	Blue	35ZU65
32 gal	22 in	27 ¼ in	Blue	35ZU72
32 gal	22 in	27 ¼ in	Green	40PM33
44 gal	24 in	31 ½ in	Blue	35ZU75

Square Plastic Recycling Cans and Lids

Open-top cans are used in mail rooms, copy rooms, break areas, and often serve as a repository for several workstations. Place flush against a wall or in a corner to save floor space.

5M822

6TUA5

Cap.	H	Width/ Diameter	D	Color	Item No.
Recycling Cans					
23 gal.	33 in	15 ½ in	16 ½ in	Blue	5M822
35 gal.	27 ½ in	19 ½ in	19 ½ in	Blue	6HH26
50 gal.	34 ¼ in	19 ½ in	19 ½ in	Blue	6HH27
All-Purpose Recycling Top for 5M822					
—	3 ¼ in	16 in	—	Blue	6TUA5
Bottle and Can Recycling Top for 5M822					
—	3 ¼ in	21 in	—	Blue	6TUA9

Glutton Series Rectangular Plastic Recycling Stations

Multiple containers in a single unit encourage recycling and help facilitate sorting. Holes are labeled or are shaped to accept a specific shape, such as round cans or paper.

2FTH9

Cap.	L	W	H	Color	Item No.
(4) 23 gal	53 in	24 in	35 ½ in	Blue	2FTH9
(4) 23 gal	53 in	24 in	35 ½ in	Brown	2FTJ1
(2) 23 gal	26 in	24 in	35 ½ in	Green	8RGK8
(2) 23 gal	26 in	24 in	35 ½ in	Blue	9K123

Slim-Profile Slim Jim Rectangular Plastic Recycling Stations

Narrow recycling stations take up less floor space and encourage recycling. Multiple holes are labeled or are shaped to accept a specific shape, such as round cans or paper.

55ET94

Cap.	Width/ Diameter	D	H	Container Markings	Item No.
(2) 23 gal	24 in	40 ¼ in	40 ¼ in	Landfill/Mixed Recycling	55ET94
(3) 23 gal	24 in	40 ¼ in	40 ¼ in	Compost/ Landfill/Mixed Recycling	55ET98
(3) 23 gal	24 in	40 ¼ in	40 ¼ in	Cans/Landfill/ Paper	55ET97
(4) 23 gal	24 in	40 ¼ in	40 ¼ in	Cans/Landfill/ Paper/Plastic	55ET99

Half-Round Plastic Recycling Can

Place flat side flush with a wall where recyclable materials are collected, keeping the can out of traffic and saving floor space.

Cap.	Width/ Diameter	D	H	Color	Item No.
21 gal.	12 in	21 in	28 in	Blue	5M794

Plastic Recycling Saddles

Attach to the side of a wastebasket or trash container to make it easier to sort trash and recyclables before disposal.

9DJA6

Cap.	Width/ Diameter	D	H	Color	Item No.
1 gal.	7 ¼ in	10 ½ in	11 ½ in	Black	5RUU8
1 gal.	7 ¼ in	10 ½ in	11 ½ in	Blue	9DJA6

Trash Bags for Soft Refuse, Nonsharp Objects

- HDPE
- Coreless rolls

For items with soft or rounded edges such as paper, paper towels, and linen. Suitable for restrooms, offices, and general trash collection. Bags are moisture-resistant to help keep containers clean.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
Black							
34 to 38 gal	10	25	30 in	49 in	17 micron	**2U384**	250
40 to 45 gal	10	15	40 in	48 in	22 micron	**5XL50**	150
56 gal	10	15	43 in	48 in	22 micron	**5XL51**	150
60 gal	10	15	38 in	60 in	22 micron	**5XL49**	150
Clear							
4 to 7 gal	40	50	17 in	18 in	6 micron	**5XL44**	2000
7 to 10 gal	40	50	20 in	22 in	6 micron	**5XL45**	2000
10 gal	20	50	24 in	24 in	8 micron	**1CF86**	1000
7 to 10 gal	20	50	24 in	24 in	6 micron	**4KN28**	1000
12 to 16 gal	20	50	24 in	33 in	6 micron	**4KN29**	1000
	20	50	24 in	33 in	8 micron	**5XL46**	1000
20 to 30 gal	20	25	30 in	37 in	8 micron	**5XL47**	500
	20	25	30 in	37 in	10 micron	**3U870**	500
	20	25	30 in	37 in	12 micron	**4KN31**	500
	10	25	30 in	37 in	16 micron	**3CCT7**	250
33 gal	10	25	33 in	40 in	12 micron	**4KN32**	250
	10	25	33 in	40 in	16 micron	**4KN33**	250
40 to 45 gal	10	25	40 in	48 in	10 micron	**4KN38**	250
	10	25	40 in	48 in	12 micron	**4KN39**	250
	10	25	40 in	48 in	16 micron	**4KN40**	250
	10	15	40 in	48 in	22 micron	**5BB54**	150
44 gal	10	25	37 in	46 in	14 micron	**5XL48**	250
55 gal	8	25	36 in	60 in	12 micron	**4KN34**	200
	8	25	36 in	60 in	16 micron	**4KN35**	200
	8	25	41 in	54 in	16 micron	**4YPC4**	200
56 gal	8	25	43 in	48 in	16 micron	**4KN42**	200
60 gal	8	25	38 in	60 in	14 micron	**4KN36**	200
	8	25	38 in	60 in	16 micron	**4KN37**	200
	10	15	38 in	60 in	22 micron	**4CU29**	150

Trash Bags for Heavy Refuse, Sharp Objects

- LLDPE

Bags conform to waste shapes while resisting tears and punctures from items with sharp corners or edges. Suitable for collecting glass and cardboard in commercial kitchens and on construction sites.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.	
Coreless Rolls								
Black								
7 to 10 gal	20	50	20 in	21 in	0.35 mil	**31DK63**	1000	
10 gal	10	50	24 in	23 in	0.35 mil	**31DK64**	500	
16 gal	10	50	24 in	32 in	0.35 mil	**31DK65**	500	
20 to 30 gal	10	25	30 in	36 in	0.45 mil	**31DK66**	250	
	10	25	30 in	36 in	0.6 mil	**31DK67**	250	
30 gal	10	10	26 in	43 in	1.1 mil	**31DK68**	100	
38 gal	10	10	30 in	46 in	0.8 mil	**31DK72**	100	
33 gal	10	25	33 in	39 in	0.45 mil	**31DK69**	250	
	10	25	33 in	39 in	0.6 mil	**31DK70**	250	
	10	25	33 in	39 in	0.8 mil	**31DK71**	250	
20 to 30 gal	6	25	33 in	39 in	1 mil	**1DZE6**	150	*
40 to 45 gal	10	25	40 in	46 in	0.5 mil	**31DK73**	250	
	5	25	40 in	46 in	0.65 mil	**31DK74**	125	
	10	10	40 in	46 in	1.1 mil	**31DK75**	100	
50 gal	10	10	45 in	47 in	1.1 mil	**31DK77**	100	
54 gal	10	10	50 in	43 ½ in	1.1 mil	**31DK78**	100	
44 gal	10	10	36 in	46 in	1.1 mil	**31DK76**	100	
40 to 45 gal	5	20	37 in	46 in	1.2 mil	**1DZE7**	100	*
55 gal	10	10	36 in	58 in	0.7 mil	**31DK79**	100	
56 gal	10	10	42 ½ in	48 in	0.7 mil	**31DK80**	100	
	10	10	42 ½ in	48 in	1.1 mil	**31DK81**	100	
60 gal	10	10	38 in	58 in	0.7 mil	**31DK82**	100	
	10	10	38 in	58 in	0.95 mil	**31DK83**	100	
	10	10	38 in	58 in	1.2 mil	**31DK84**	100	
Clear								
10 gal	20	50	24 in	23 in	0.35 mil	**31DK31**	1000	
16 gal	10	50	24 in	32 in	0.35 mil	**31DK30**	500	
20 to 30 gal	10	25	30 in	36 in	0.45 mil	**31DK32**	250	
	8	25	30 in	36 in	1 mil	**31DK41**	200	
33 gal	10	25	33 in	39 in	0.45 mil	**31DK33**	250	
	10	25	33 in	39 in	0.6 mil	**31DK34**	250	
	8	25	33 in	39 in	1.1 mil	**31DK42**	200	
40 to 45 gal	5	25	40 in	46 in	0.65 mil	**31DK35**	125	
	10	10	40 in	46 in	1.1 mil	**31DK43**	100	
	10	10	40 in	46 in	1.7 mil	**31DK46**	100	
54 gal	10	10	50 in	43 ½ in	1.1 mil	**31DL09**	100	
Coreless Rolls (Cont.)								
Clear (Cont.)								
55 gal	10	10	36 in	58 in	0.7 mil	**31DK37**	100	
	10	10	36 in	58 in	1 mil	**31DK40**	100	
56 gal	10	10	42 ½ in	48 in	0.7 mil	**31DK36**	100	
	10	10	42 ½ in	48 in	1.1 mil	**31DK44**	100	
60 gal	10	10	38 in	58 in	0.7 mil	**31DK38**	100	
	10	10	38 in	58 in	0.95 mil	**31DK39**	100	
	10	10	38 in	58 in	1.2 mil	**31DK45**	100	
	10	10	38 in	58 in	1.7 mil	**31DK47**	100	
Gray								
10 gal	10	50	24 in	23 in	0.4 mil	**5XL52**	500	
10 to 15 gal	10	50	24 in	32 in	0.4 mil	**5XL53**	500	
20 to 30 gal	10	25	30 in	36 in	0.5 mil	**5XL54**	250	
	10	25	30 in	36 in	0.7 mil	**1YLY9**	250	
	10	10	30 in	36 in	1 mil	**4YPA2**	100	
33 gal	10	25	33 in	39 in	0.7 mil	**5XL55**	250	
	10	20	33 in	39 in	1 mil	**1YLZ1**	200	
	5	20	33 in	39 in	1.5 mil	**4YPA3**	100	
	10	10	33 in	39 in	2 mil	**4YPA4**	100	
40 to 45 gal	5	25	40 in	46 in	0.7 mil	**5XL57**	125	
	6	25	40 in	46 in	0.9 mil	**5XL64**	150	
	10	10	40 in	46 in	1.1 mil	**5XL58**	100	
	5	20	40 in	46 in	1.5 mil	**4YPA5**	100	
	10	10	40 in	46 in	2 mil	**4YPA6**	100	
44 gal	10	10	36 in	50 in	0.7 mil	**5XL56**	100	
55 gal	10	10	36 in	58 in	0.7 mil	**5XL61**	100	
	4	25	41 in	54 in	0.9 mil	**4YPA1**	100	
	10	10	36 in	58 in	1.1 mil	**5XL62**	100	
	5	20	36 in	58 in	1.5 mil	**4YPA7**	100	
	10	10	36 in	58 in	2 mil	**4YPA8**	100	
56 gal	10	10	42 ½ in	48 in	0.7 mil	**5XL59**	100	
	10	10	42 ½ in	48 in	1.1 mil	**5XL60**	100	
	5	20	42 ½ in	48 in	1.5 mil	**4YPA9**	100	
	10	10	42 ½ in	48 in	2 mil	**4YPC1**	100	
60 gal	10	10	38 in	58 in	0.9 mil	**5XL65**	100	
	10	10	38 in	58 in	1.1 mil	**5XL63**	100	
	5	20	38 in	58 in	1.5 mil	**4YPC2**	100	
	10	10	38 in	58 in	2 mil	**4YPC3**	100	
Orange								
40 to 45 gal	10	10	40 in	48 in	1.5 mil	**31DK85**	100	
White								
10 to 15 gal	10	25	24 in	28 in	0.85 mil	**1DZE4**	250	*
20 to 30 gal	8	25	30 in	36 in	1 mil	**31DK48**	200	
	6	25	33 in	39 in	1 mil	**1DZE5**	150	*
33 gal	10	15	33 in	39 in	1 mil	**31DK49**	150	
40 to 45 gal	10	10	40 in	46 in	1 mil	**31DK50**	100	
56 gal	10	10	42 ½ in	48 in	1 mil	**31DK51**	100	
60 gal	10	10	38 in	58 in	1 mil	**31DK52**	100	
Individually Folded Bags								
Black								
30 gal	N/A	75	29 ¼ in	53 in	4 mil	**52WX84**	75	
Cored Rolls								
45 gal	1	75	39 in	46 in	4 mil	**52WX87**	75	
55 gal	1	75	36 in	63 in	4 mil	**52WX90**	75	
	1	50	36 in	63 in	5.5 mil	**52WX94**	50	
Clear								
55 gal	1	50	37 in	57 in	4 mil	**52WX93**	50	
Orange								
30 gal	1	75	29 ¼ in	53 in	4 mil	**52WX85**	75	
45 gal	1	75	39 in	46 in	4 mil	**52WX88**	75	
55 gal	1	75	36 in	63 in	4 mil	**52WX91**	75	
Yellow								
30 gal	1	75	29 ¼ in	53 in	4 mil	**52WX86**	75	
45 gal	1	75	39 in	46 in	4 mil	**52WX89**	75	
55 gal	1	75	36 in	63 in	4 mil	**52WX92**	75	
	1	50	36 in	63 in	5.5 mil	**52WX95**	50	

Cap.	W	H	Thickness	Item No.	Pkg. Qty.	
Flat Pack						
Clear						
60 gal	38 in	58 in	4 mil	**3CCT8**	50	*

** Drawstring closure.*

15E467

5AE63

Trash Bags for Wood, Metal, Concrete

- Super Hexene HAO

For heavy-duty and industrial applications that require maximum strength and resistance to punctures and tearing. They are often used by contractors on construction sites, in lumber yards, and in brickwork applications to hold heavy or sharp waste.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
Coreless Rolls							
Black							
15 to 18 gal	1	25	24 in	40 in	0.75 mil	**5WG05**	25
33 gal	1	25	35 in	39 in	0.75 mil	**5WG06**	25
	1	25	35 in	39 in	1.1 mil	**5WG08**	25
38 gal	1	25	30 in	46 in	0.9 mil	**5WG09**	25
44 gal	1	25	38 ½ in	44 ½ in	0.9 mil	**5WG10**	25
55 gal	1	20	36 in	60 in	1.65 mil	**5WG01**	20
56 gal	1	25	42 in	48 in	1.2 mil	**5WF99**	25
Clear							
10 gal	10	50	24 in	24 in	0.75 mil	**15E461**	500
	10	25	24 in	24 in	1.2 mil	**15E462**	250
	10	25	24 in	24 in	1.4 mil	**15E463**	250
11 to 13 gal	1	50	23 ½ in	29 in	0.75 mil	**5WG04**	50
12 to 16 gal	10	50	24 in	33 in	0.75 mil	**15E464**	500
	10	25	24 in	33 in	1.2 mil	**15E465**	250
	10	25	24 in	33 in	1.4 mil	**15E466**	250
20 to 30 gal	10	25	30 in	37 in	0.75 mil	**15E468**	250
	10	20	30 in	37 in	1.4 mil	**15E471**	200
33 gal	1	25	35 in	39 in	0.75 mil	**5WG07**	25
	10	25	33 in	40 in	0.75 mil	**15E473**	250
	10	20	33 in	40 in	1.2 mil	**15E475**	200
40 to 45 gal	10	15	40 in	48 in	0.87 mil	**15E480**	150
	10	10	40 in	48 in	1.2 mil	**15E482**	100
	10	10	40 in	48 in	1.4 mil	**15E484**	100
	10	5	40 in	48 in	2.5 mil	**15E486**	50
55 gal	10	10	36 in	58 in	1.2 mil	**15E492**	100
	1	20	36 in	60 in	1.65 mil	**5WG02**	20
	10	5	36 in	58 in	2.5 mil	**15E495**	50
56 gal	10	15	43 in	48 in	0.98 mil	**15E488**	150
	10	10	43 in	48 in	1.4 mil	**15E490**	100
60 gal	10	10	38 in	58 in	1.2 mil	**15E499**	100
	10	10	38 in	58 in	1.4 mil	**15E502**	100
	10	5	38 in	58 in	2.5 mil	**15E504**	50
Magnum Blue							
20 to 30 gal	10	25	30 in	37 in	0.75 mil	**15E467**	250
40 to 45 gal	10	10	40 in	48 in	1.2 mil	**15E481**	100
	10	10	40 in	48 in	1.4 mil	**15E483**	100
	10	5	40 in	48 in	2.5 mil	**15E485**	50
55 gal	10	10	36 in	58 in	1.4 mil	**15E493**	100
	10	5	36 in	58 in	2.5 mil	**15E494**	50
56 gal	10	10	43 in	48 in	1.4 mil	**15E489**	100
60 gal	10	10	38 in	58 in	1.2 mil	**15E498**	100
	10	10	38 in	58 in	1.4 mil	**15E501**	100
	10	5	38 in	58 in	2.5 mil	**15E503**	50
White							
7 gal	1	100	21 ½ in	22 in	0.75 mil	**5WF98**	100
11 to 13 gal	1	50	23 ½ in	29 in	0.75 mil	**5WG03**	50

Cap.	W	H	Thickness	Item No.	Pkg. Qty.
Flat Packs					
Silver					
20 to 30 gal	30 in	37 in	1.5 mil	**5AE63**	100
33 gal	33 in	40 in	1.5 mil	**5AE64**	100
40 to 45 gal	39 in	47 in	1.7 mil	**5AE65**	50
55 to 60 gal	39 in	57 in	1.7 mil	**5AE66**	50
56 gal	43 in	49 in	1.7 mil	**5AE67**	50

Contractor Trash Bags

- LLDPE
- Coreless roll

Highly resistant to punctures and tearing. Star-seal bottoms and seam-free sides help to prevent leakage.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
42 gal	33 in	48 in	3 mil	Black	**5AU51**	20

Compactor Trash Bags

- LLDPE
- Flat pack

For use in commercial compactors. Designed with a gusset seal.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
50 gal	26 in x 24 in	48 in	2.5 mil	Black	**4YPC5**	50

4YPD1

Trash Bags for Brute Rollout Trash Cans

- LLDPE
- Flat packs

Sized to fit Brute Rollout Trash Cans. See page 1557.
Designed with a gusset seal.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
50 gal	31 in x 26 in	64 in	2 mil	Clear	**4YPC7**	50
95 gal	35 in x 28 in	70 in	2 mil	Blue	**4YPD1**	50
65 to 95 gal	35 in x 28 in	70 in	2 mil	Clear	**4YPC9**	50

49YW58

31DK56

Recycled Plastic Trash Bags

- LLDPE
- Coreless rolls

Heavy-duty construction to resist tearing and punctures. Strong and durable for industrial and factory applications. Suitable for transporting trash and keeping trash cans clean in LEED-certified facilities.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
80% Postconsumer							
Black							
30 gal	1	10	30 in	33 in	0.85 mil	**49YW60** *	10
	1	40	30 in	33 in	0.9 mil	**49YW67**	40
	1	70	30 in	32 in	1.05 mil	**49YW61** *	70
	1	90	30 in	33 in	1.05 mil	**49YW62** *	90
	1	25	30 in	32 in	1.1 mil	**49YW59** *	25
	1	28	30 in	33 in	1.15 mil	**49YW66** *	28
33 gal	1	50	32 in	37 in	3 mil	**49YW68**	50
	—	—	32 in	39 in	3 mil	**38EU82**	50
40 to 45 gal	1	20	33 in	48 in	3 mil	**38EU83**	20
	1	50	33 in	48 in	3 mil	**38EU84**	50
	1	32	33 in	48 in	4 mil	**38EU81**	32
42 gal	1	40	32 in	46 in	3 mil	**49YW69**	40
45 gal	1	100	40 in	46 in	1.2 mil	**38EU60**	100
	1	100	40 in	46 in	1.5 mil	**38EU75**	100
55 to 60 gal	1	100	38 in	58 in	1.2 mil	**38EU57**	100
	1	100	38 in	58 in	1.5 mil	**38EU58**	100
	1	100	38 in	58 in	2 mil	**38EU59**	100
56 gal	1	100	43 in	47 in	1.2 mil	**38EU67**	100
	1	100	43 in	47 in	1.5 mil	**38EU68**	100
White							
8 gal	1	26	20 in	20 in	0.69 mil	**49YW64**	26
13 gal	1	80	23 ¼ in	28 in	0.69 mil	**49YW63**	80
	1	100	24 in	24 ½ in	0.78 mil	**49YW58** *	100
	1	100	24 in	24 ½ in	0.82 mil	**49YW57** *	100
	1	40	24 in	27 ½ in	0.95 mil	**49YW65** *	40
70% Recycled Content; 10% Postconsumer							
Black							
16 gal	10	25	24 in	32 in	1 mil	**31DK53**	250
	10	25	24 in	32 in	0.9 mil	**38D109**	250
20 to 30 gal	5	25	30 in	36 in	1.5 mil	**31DK54**	125
33 gal	6	25	33 in	39 in	1.2 mil	**38D112**	150
	10	10	33 in	39 in	1.5 mil	**38D110**	100
	5	25	33 in	39 in	1.5 mil	**31DK55**	125
40 to 45 gal	5	25	40 in	46 in	1.5 mil	**31DK56**	125
	10	10	40 in	46 in	2 mil	**31DK59**	100
55 gal	5	10	36 in	58 in	2 mil	**31DK61**	50
56 gal	10	10	42 ½ in	48 in	1.5 mil	**31DK57**	100
	10	10	42 ½ in	48 in	2 mil	**31DK60**	100
60 gal	10	10	38 in	58 in	1.5 mil	**31DK58**	100
	5	10	38 in	58 in	2 mil	**31DK62**	50
50% Postconsumer							
Clear							
12 to 16 gal	1	500	24 in	32 in	1 mil	**38EU63**	500
33 gal	1	100	33 in	39 in	1 mil	**38EU71**	100
	1	100	33 in	39 in	1.2 mil	**38EU69**	100
	1	100	33 in	39 in	1.5 mil	**38EU70**	100
45 gal	1	100	40 in	46 in	1 mil	**38EU64**	100
	1	100	40 in	46 in	1.2 mil	**38EU79**	100
	1	100	40 in	46 in	1.5 mil	**38EU61**	100
	1	100	40 in	46 in	2 mil	**38EU77**	100
55 to 60 gal	1	100	38 in	58 in	1 mil	**38EU62**	100
	1	100	38 in	58 in	1.2 mil	**38EU78**	100
	1	100	38 in	58 in	1.5 mil	**38EU76**	100
	1	100	38 in	58 in	2 mil	**38EU74**	100
	1	100	38 in	63 in	2 mil	**38EU72**	100
	1	25	38 in	58 in	6 mil	**38EU73**	25
56 gal	1	100	43 in	47 in	1.2 mil	**38EU80**	100
	1	100	43 in	47 in	1.5 mil	**38EU65**	100
	1	100	43 in	47 in	2 mil	**38EU66**	100

*** Drawstring closure.***

14L023

14X377

Pest-and Rodent-Repellent Trash Bags

Bags have natural mint fragrance added to repel rats, raccoons, and other rodents while remaining safe for humans. HDPE bags are lightweight and moisture-resistant for collecting soft refuse such as paper towels, paper, and linen. LLDPE bags are tear- and puncture-resistant for collecting heavy refuse and items with sharp corners, such as cardboard in kitchens.

Cap.	Rolls per Package	Bags per Roll	W	H	Thickness	Item No.	Pkg. Qty.
HDPE, Coreless Rolls							
Black							
45 gal	10	25	40 in	48 in	16 micron	**14L025**	250
60 gal	10	15	38 in	60 in	22 micron	**14L026**	150
Clear							
45 gal	10	25	40 in	48 in	16 micron	**14X393**	250
56 gal	8	25	43 in	48 in	16 micron	**14L023**	200
60 gal	10	15	38 in	60 in	22 micron	**14L024**	150
LLDPE, Coreless Roll							
White							
13 gal	1	40	25 in	25 in	0.9 mil	**56LW01**	40

Cap.	W	H	Thickness	Item No.	Pkg. Qty.
LLDPE, 80% Postconsumer, Flat Packs					
Black					
38 gal	33 in	46 in	1.3 mil	**14X377**	100
44 gal	40 in	46 in	1.3 mil	**14X378**	100
	40 in	46 in	1.7 mil	**14X386**	100
56 gal	43 in	47 in	1.3 mil	**14X379**	100
	43 in	47 in	1.7 mil	**14X387**	100
60 gal	38 in	58 in	1.3 mil	**14X380**	100
	38 in	58 in	1.7 mil	**14X388**	100
Clear					
56 gal	43 in	47 in	1.3 mil	**14X383**	100
	43 in	47 in	1.7 mil	**14X391**	100
60 gal	38 in	58 in	1.3 mil	**14X384**	100
	38 in	58 in	1.7 mil	**14X392**	100

5PHW8

Compostable Trash Bags

- Coreless rolls

Designed to collect waste for composting in commercial facilities.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
30 gal	30 in	36 in	1 mil	Green	**5PHW8**	150
33 gal	33 in	39 in	1 mil		**5PHW9**	100
45 gal	40 in	46 in	1 mil		**5PHX0**	100
60 gal	38 in	58 in	1 mil		**5PHX1**	100

31DL07

Blue Recycling Trash Bags

- LLDPE
- Coreless rolls

For recycling items in bag-based, community drop-off or municipal curbside recycling programs. Printed with recycling symbol.

Cap.	W	H	Thickness	Color	Item No.	Pkg. Qty.
38 gal	30 in	46 in	1.2 mil	Translucent Blue	**31DL07**	100
40 to 45 gal	40 in	46 in	1.2 mil		**31DL08**	100

31DK88

31DK91

31DK99

TOUGH GUY

Hospital Isolation Bags

- Coreless rolls

Bags with legends are printed in English and Spanish to identify contents: Infectious Waste (red) and Infectious Linen (yellow). Bags without a legend are for Noncontagious Linen (blue and green). Color-coded to manage disposal. HDPE bags are lightweight and moisture-resistant for collecting soft refuse such as paper towels, paper, and linen. LLDPE bags are tear- and puncture-resistant for collecting heavy refuse and items with sharp corners, such as glass, plastic, and cardboard.

Cap.	Color	Legend	W	H	Thickness	Item No.	Pkg. Qty.
HDPE							
10 gal	Red		24 in	24 in	12 micron	**31DK87**	1000
33 gal	Red	Infectious Waste	33 in	40 in	14 micron	**31DK88**	250
45 gal	Red		40 in	48 in	16 micron	**31DK92**	200
44 gal	Yellow	Infectious Linen	37 in	50 in	16 micron	**31DK91**	200
33 gal	Blue	No Legend	33 in	40 in	16 micron	**31DK89**	250
LLDPE							
10 gal	Red		24 in	24 in	1.2 mil	**31DK93**	250
15 gal	Red		24 in	33 in	1.3 mil	**31DK94**	200
30 gal	Red		30 in	37 in	1.3 mil	**31DK95**	100
33 gal	Red	Infectious Waste	31 in	43 in	1.3 mil	**31DK97**	100
	Red		33 in	40 in	1.3 mil	**31DL01**	100
44 gal	Red		37 in	50 in	3 mil	**31DL06**	25
45 gal	Red		40 in	48 in	1.3 mil	**31DL02**	100
	Red		40 in	48 in	3 mil	**31DL03**	50
33 gal	Yellow	Infectious Linen	31 in	43 in	1.2 mil	**31DK96**	100
45 gal	Yellow		40 in	48 in	1.2 mil	**31DL04**	100
33 gal	Blue		31 in	43 in	1.2 mil	**31DK98**	100
	Green	No Legend	31 in	43 in	1.5 mil	**31DK99**	100
45 gal	Blue		40 in	48 in	1.2 mil	**31DL05**	100

3UAF4

Biohazard Bags

- Polyethylene
- Coreless rolls

Printed with the universal biohazard insignia and legend in English and Spanish to encourage proper disposal and prevent unnecessary exposure.

Cap.	W	H	Thickness	Legend	Color	Item No.	Pkg. Qty.
1 gal	11 in	14 ½ in	1.25 mil	Infectious Waste Biohazard	Red	**3UAF2**	200
3 gal	13 in	20 in	1.25 mil		Red	**3UAF3**	200
5 gal	15 ½ in	22 ½ in	1.25 mil		Red	**3UAF4**	200

TOUGH GUY

Lawn and Leaf Bags

- Paper

Used by landscapers, lawn maintenance teams, and homeowners to collect leaves, grass clippings, tree trimmings, and other lawn waste. These paper bags are self-standing and can be used for curbside pickup. Biodegradable and recyclable.

Cap.	W	H	Color	Item No.	Pkg. Qty.
30 gal	16 in	35 in	Brown	**4JMZ4**	5

420T77 (3 Racks Shown)

420T79

420T78

bag buddy®

Bag Holders for Trash Bags

Strong and lightweight steel bag holders keep bags open and support the sides when loading. They open wide to remove bags without tearing. Bag holders are reusable and can be folded for transport and storage.

For Use With	H	W	L	Item No.
30 and 33 gal Bag	23 in	14 in	16 in	**420T77**
39 and 44 gal Bag	30 in	14 in	16 in	**420T78**
55 gal Contractor Bag or 30 gal Kraft Paper Yard Bag	37 in	14 in	16 in	**420T79**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

General Purpose Corded Shop Vacuums

- Wet/Dry pickup

Roll shop vacuums to a cleanup site and plug into a nearby electrical outlet to vacuum up liquid spills or dirt and debris. They're ready for use without having to wait for a battery pack to recharge. Standard vacuums filter the outgoing air through the vacuum bag. Search General Purpose Corded Shop Vacuums on Grainger.com for a complete list of vacuum contents.

784HV2

61HV82

784HV7

55EX73

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Brand	Item No.
Standard Filtration						
6 gal	Plastic	1 ¼ in	145 cfm	3 ½	Shop-Vac	**784HV2**
8 gal	Plastic	1 ¼ in	100 cfm	5	Dayton	**61HV82**
	Stainless Steel	1 ½ in	65 cfm	2	Dayton	**55EY24**
10 gal	Plastic	1 ¼ in	145 cfm	5	Dayton	**45UZ57**
	Plastic	1 ½ in	175 cfm	4 ½	Shop-Vac	**784HV3**
12 gal	Stainless Steel	1 ½ in	105 cfm	6 ½	Shop-Vac	**784HV7**
	Plastic	2 ½ in	140 cfm	5 ½	Dayton	**12Z214**
	Plastic	1 ½ in	105 cfm	5 ½	Shop-Vac	**784HV5**
	Stainless Steel	1 ½ in	65 cfm	2	Dayton	**55EY26**
16 gal	Plastic	1 ½ in	80 cfm	3	Shop-Vac	**784HV9**
	Plastic	2 ½ in	150 cfm	6 ½	Dayton	**3VE21**
	Stainless Steel	1 ½ in	110 cfm	6 ½	Shop-Vac	**784HV8**
18 gal	Plastic	1 ½ in	110 cfm	6 ½	Shop-Vac	**784HV6**
24 gal	Plastic	1 ¼ in	118 cfm	—	Tennant	**55EX73**

2NYE3

784HV4

Portable Corded Shop Vacuums

- Wet/Dry pickup

Vacuums are lightweight, compact units that can be carried around the jobsite to clean up liquid spills or dirt and debris. They plug into a nearby electric outlet, so they're ready to use. These vacuums take up less storage space than a full-size shop vacuum. All vacuums include efficient, single-stage bypass motors for powerful pick-up.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Brand	Item No.
Vacuums							
Standard Filtration							
1 ½ gal	Plastic	1 ¼ in	50 cfm	2	6 ft x 1 ¼ in Hose, Crevice Tool, Dusting Brush, On-board Tool Storage, Utility Nozzle, Wall Bracket	Dayton	**2NYE3**
2 ½ gal	Plastic	1 ¼ in	60 cfm	2 ½		Dayton	**2NYE4**
4 gal	Plastic	1 ¼ in	75 cfm	4	(2) Plastic Extension Wands, 10 in Wet or Dry Nozzle, 7 ft x 1 ¼ in Hose, Cartridge Filter, Crevice Tool, Dusting Brush, Foam Sleeve and Disposable Collection Bag Filter, Multi Surface Carpet / Floor Nozzle, Utility Nozzle	Dayton	**48UH44**
4 gal	Plastic	1 ½ in	105 cfm	5 ½	(2) 1.5 in Diameter Extension Wands (91995), 12 in Wet/Dry Nozzle (91991), 8 ft x 1.5 in Diameter Lock-On Hose, Crevice Tool (91996), Dual Surface Selector Nozzle (91968), Gulper Nozzle (91914), High Efficiency Disposable Filter Bag (91964, Type D), Onboard Tool Storage Small Cartridge Filter (90398, Type AA), Round Brush (91997), Small Foam Sleeve (90526, Type CC)	Shop-Vac	**784HV4**
5 gal	Plastic	1 ½ in	65 cfm	6	(5) 8 Gallon High Efficiency Disposable Filter Bag (90671, Type H), 8 ft x 1.5 in Diameter Lock-On Hose Claw Utility Nozzle (91961), Adaptor (91984), Crevice Tool (90645), Small Foam Sleeve (90526, Type CC), Tool Holder Small Cartridge Filter (90398, Type AA)	Shop-Vac	**784HV1**
Vacuum Bags and Filters							
Cloth Vacuum Bag for 2NYE3 and 2NYE4						Shop-Vac	**784HX6**
Vacuum Filter for 2NYE3 and 2NYE4						Dayton	**61HW04**
Vacuum Filter for 2NYE3 and 2NYE4						Shop-Vac	**784HZ4**
Vacuum Bags for 48UH44						Shop-Vac	**784HZ2**
Vacuum Filter for 48UH44						Shop-Vac	**784HW7**
Vacuum Filter for 48UH44						Dayton	**61HV97**
Vacuum Filters for 784HV1						Shop-Vac	**784HX5**

Portable Cordless Shop Vacuums

Shop vacuums allow the cleanup of wet or dry spills while eliminating the trip hazard of a cord and the need to work near an electrical outlet. They're powered by rechargeable batteries to allow use in remote areas where electric power is unavailable. These vacuums are lightweight for transport and compact to save space in storage.

408L95

34D626

2CDC6

Vacuum Pickup Type	Tank Size	Vacuum Hose Dia.	Vacuum Air Flow	Voltage	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
HEPA Filtration									
Dry	0.3 gal	1 ¼ in	40 cfm	18V	No	4 ft Hose, (2) Extension Wands, Crevice Tool, Floor Tool, HEPA Filter	Milwaukee	0882-20	**52WR81**
Dry	2.1 gal	1 ½ in	74 cfm	36V	No	Anti-Static Hose, (3) Tool Cuff Adapters, (10) Plastic Disposal Bag, HEPA Filter, Damper Filter, Pre-Filter	Makita	XCV07ZX	**408L95**
Dry	2.1 gal	1 ½ in	127 cfm	36V	No	Straight Tube, Curved Tube, Crevice Tool, Anti-Static Hose 1 ½ in X 8 ft, HEPA Filter, (10) Plastic Disposal Bag, Damper Filter, Floor Nozzle, Anti-Static Hose 1 in X 11 ft, Tool Cuff Adapter, Tool Cuff Adapter, Pre-Filter	Makita	XCV04Z	**52RX15**
Wet/Dry	2 gal	1 ¼ in	31 cfm	20V	No	5 ft Heavy-Duty Crush Resistant Hose 1 ¼ in dia, Crevice Tool Attachment, Wide Nozzle Tool Attachment, Washable HEPA Filter	DeWalt	DCV580H	**34D626**
Wet/Dry	2 gal	1 ¼ in	31 cfm	20V	No		DeWalt	DCV581H	**34D627**
Wet/Dry	2 gal	1 ¼ in	31 cfm	20V	Yes	5 ft Heavy-Duty Crush Resistant Hose (1¼ in dia), Crevice Tool Attachment, Wide Nozzle Tool Attachment, Washable Filter	DeWalt	DCV580H/ DCB203	**58JM08**
Wet/Dry	2 gal	1 ¼ in	45 cfm	18V	Yes	Filter Assembly, Crevice Tool, Wide Nozzle, (2) Batteries, 4' Hose, (2) Extension Wands, Floor Tool	Milwaukee	48-11-1852, 0880-20	**285MN3**
Wet/Dry	2 gal	1 ¼ in	45 cfm	18V	No	6 ft Flexible Hose, Crevice Tool, Utility Nozzle, HEPA Filter	Milwaukee	0880-20	**2CDC6**
Required Accessories									
Battery for 52WR81							Milwaukee	48-11-1850	**35GJ99**
Battery Charger for 52WR81							Milwaukee	48-59-1808	**45LD79**
Battery and Charger Kit for 52WR81							Milwaukee	48-59-1850	**38XH99**
Battery for 408L95 and 52RX15							Makita	BL1850B	**38XU33**
Battery Charger for 408L95							Makita	DC18RC	**4NNN4**
Battery for 34D626 and 34D627							DeWalt	DCB201	**11A168**
Battery Charger for 34D626, 34D627, and 58JM08							DeWalt	DCB115	**11A157**
Battery for 2CDC6							Milwaukee	48-11-1840	**38D766**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

4YE65

21YG56

5UMR0

Dayton · shop-vac · Tornado®

Commercial Cleaning Corded Shop Vacuums

- Wet/Dry pickup

Commercial vacuums have a single-stage or 2-stage motor that allows more frequent use than general purpose shop vacuums. They are used for cleaning up liquid spills or dirt and debris and are commonly paired with attachments suited for professional office, school, or retail cleaning applications. Standard vacuums filter the outgoing air through the vacuum bag.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Brand	Mfr. Model	Item No.
Vacuums								
Standard Filtration								
6 gal	Plastic	1 ¼ in	125 cfm	5	(4) Casters, Deluxe Accessory Tool Kit Includes: 8 ft x 1 ¼ Hose, (2) Extension Wands, Dual Surface Selection Floor Nozzle, Crevice Tool, Dusting Brush, Utility Nozzle, 10 in Wet/Dry Floor Nozzle, Heavy-Duty Cartridge Filter, Foam Sleeve, High-Efficiency Collection Bag	Dayton	4YE65	**4YE65**
8 gal	Plastic	1 ½ in	100 cfm	6	(2) 1.5 in Diameter Extension Wands (91995), (5) 8 Gallon High Efficiency Disposable Filter Bag (90671, Type H), 12 in Floor Nozzle (91991), 6 in Utility Nozzle (90175), 8 ft x 1.5 in Diameter Lock-On Hose, Crevice Tool (91996), Dual Surface Nozzle (91968), Foam Sleeve (90585 Type R), Round Brush (91997), Tool Storage Basket Cartridge Filter (90304, Type U)	Shop-Vac	9258006	**784HW0**
10 gal	Plastic	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94234	**21YG56**
15 gal	Stainless Steel	1 ½ in	114 cfm	1 ⅝		Tornado	94232	**21YG57**
16 gal	Plastic	1 ½ in	184 cfm	2 ¼	14 in Hard Floor Tool and 18 in Hand Nozzle, 14 in Squeegee Floor Tool, 16 ft x 1 ½ in Static Conductive Urethane Hose with Sleeve, Large Poly External Filter, Liquid Shut-Off, Two Piece Double Curve Wand	Tornado	98699	**35PG50**
17 gal	Plastic	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94230	**21YG58**
18 gal	Plastic	1 ½ in	95 cfm	1 11/64	(3) Wand, 24 in Squeegee Assembly, 9 ft Hose, Crevice Tool, Dusting Brush	Dayton	5UMR0	**5UMR0**
20 gal	Stainless Steel	1 ½ in	114 cfm	1 ⅝	Brush, Crevice Tool, Floor Tool, Hose, Squeegee Attachment, Wand	Tornado	94236	**21YG59**
Replacement Parts, Accessories and Bags								
Two-Stage/By-Pass Service Motor, 2HP for 4YE65						Dayton	1UND4	**1UND4**
15-Ft. Static Conductive Clear Urethane Hose w/Sleeve for 35PG50						Tornado	90684	**1N157**
2-Piece Double Curve Floor Wand for 35PG50						Tornado	90682	**1N155**
Squeegee for 35PG50						Tornado	90644	**32EY91**

22N462

20X608

32FW86

Nilfisk · Dayton · Mi-T-M

Industrial Corded Shop Vacuums

Industrial vacuums provide greater suction than general purpose or commercial-cleaning shop vacuums to pick up heavier particles and liquids. Their 2-stage or 3-stage motor allows high-frequency use for heavy-duty cleanups of dust and dirt or liquid spills. Standard vacuums filter the outgoing air through the vacuum bag. HEPA filter vacuums force air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke. Vacuums plug into an electrical outlet to generate suction and have a large tank for holding vacuumed debris or liquids. These vacuums withstand frequent use at manufacturing facilities and building or construction sites.

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Dry	13 gal	Steel	2 ¾ in	198 cfm	2 45/64	Polyester Star Filter	Nilfisk	1-S2N1	**22N462**
Wet/Dry	6 ⅝ gal	Plastic	1 ¼ in	127 cfm	1 ⅜	(2) Chrome Tubes, 11.5 ft Hose, Accy Net, Cord Storage Strap, Crevice Nozzle, Filter Bag, Hose/Cable Hook, Standard Cartridge, Tube Holder Kit, Universal Nozzle, Wet/Dry Floor Nozzle	Nilfisk	107406622	**32FW88**
Wet/Dry	9 gal	Plastic	1 ¼ in	101 cfm	1 5/16	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X605	**20X605**
Wet/Dry	11 gal	Plastic	1 ¼ in	150 cfm	1 ¼	Accessory Storage, Cartridge Filter, Disposal Bag, Paper Filter Bag	Nilfisk	107412125	**53UE35**
Wet/Dry	18 gal	Plastic	1 ½ in	108 cfm	1 ⅝	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X608	**20X608**
HEPA Filtration									
Dry	3 ¼ gal	Alumum	1 ¼ in	87 cfm	1 ½	(2) Straight Steel Wands, 3 in Round Brush, 30 ft Cord, 5 in Upholstery Nozzle, Combination Floor Nozzle, Crevice Cove, Detachable Trolley, Paper Bags, Plastic Hose	Nilfisk	01790129	**34AY97**
Dry	26 gal	Steel	2 ¾ in	270 cfm	3 13/64	Polyester Star Filter	Nilfisk	1-S3/100N1	**22N467**
Wet/Dry	5 ¼ gal	Staless Steel	1 ¼ in	127 cfm	1 ⅜	(2) Aluminum Tubes, 11.5 ft Hose, Crevice Nozzle, Filter Bag, HEPA Cartridge, Tube Holder Kit, Universal Nozzle, Wet/Dry Floor Nozzle	Nilfisk	107419096	**32FW86**
Wet/Dry	8 gal	Plastic	1 ¼ in	148 cfm	1 5/16	Accessory Storage, Cartridge Filter, Disposal Bag, Paper Filter Bag	Nilfisk	107412176	**53UE32**
Wet/Dry	12 gal	Plastic	2 in	130 cfm	1 ⅜	Accessory Kit	Nilfisk	107412640	**39UD67**
Wet/Dry	18 gal	Plastic	1 ½ in	108 cfm	1 ⅝	Cartridge Filter, Crevice Tool, Extension Wand, Floor Tool, Hose, Paper Filter Bag, Plastic Wand, Squeegee Tool	Dayton	20X609	**20X609**
Replacement Parts, Accessories and Bags									
Vacuum Adapter for 32FW88 and 32FW86							Nilfisk	107409977	**32FX07**
Vacuum Hose for 32FW88 and 32FW86							Nilfisk	107409976	**42EW44**
Crevice Tool for 20X605							Mi-T-M	33-0412	**25GR56**
Anti-Static Vacuum Hose for 53UE35 and 53UE32							Nilfisk	107413543	**53UE41**
Extension Wand for 53UE35, 53UE32 and 48XT63							Nilfisk	107408074	**174W44**
Extension Wand for 53UE32 and 48XT63							Nilfisk	302000529	**12A513**
Bag Refill for 22N462 and 22N467							Nilfisk	4084000956	**33JG50**
Crevice Tool for 20X609							Mi-T-M	33-0326	**25GR51**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Tornado® GUARDAIR

Pneumatic Industrial Drum Vacuums

Drum vacuums operate on a compressed-air supply to suction dust and dirt or liquid spills into their drum for disposal. They withstand high-frequency use and reduce the risk of downtime since they have no electric motor to burn out. These air-powered vacuums are commonly connected to air compressors at construction sites or pneumatic hoses in manufacturing facilities.

36NL99

32EY90

3PXN3

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Includes	Brand	Mfr. Model	Item No.
Drum Vacuums									
Standard Filtration									
Wet	55 gal	Steel	—	160 cfm	¾ in Quick Connect	2 in Hose Adapter, 55 Gallon Drum, Dual Venturi Powerheads, Four Wheel Steel Dolly	Tornado	95961	**36NL99**
Wet/Dry	5 gal	Steel	1 ¼ in	56 cfm	⅜ in FNPT	9 in Plastic Crevice Tool, 1.25 in x 10 ft Standard Duty Vacuum Hose, 19 in Plastic Wand, 3 in Round Brush Tool, 5 in Wide Plastic Utility Tool	Guardair	N051MC	**422V54**
Wet/Dry	5.5 gal	Plastic	½ in	73 cfm	⅜ in Quick Connect	Hose, Crevice Tool, Gasket, Exhaust Bag and Cartridge Filter, 1 ½ in ID x 10 ft Vacuum Hose	Guardair	MV2000	**33J775**
Wet/Dry	10 gal	Steel	1 ¼ in	61 cfm	⅜ in FNPT	10 gal Drum, Standard Cartridge Filter, ⅜ in x 12 ft Coiled Air Hose, 1.25 in x 10 ft Standard Duty Vacuum Hose, 9 in Plastic Crevice Tool, 19 in Plastic Wand, 3 in Round Brush Tool, 5 in Wide Plastic Utility Tool	Guardair	N101MC	**422V56**
Wet/Dry	10 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Air Hose ½ in x 20 ft, 1 ½ in x 20 ft Standard Duty Vacuum Hose, 11 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N101SC	**422V57**
Wet/Dry	18 gal	Stainless Steel	1 ½ in	83 cfm	1½ in Quick Connect	Venturi Powerhead, Tip and Pour Carrier	Tornado	95953	**36NL98**
Wet/Dry	18 gal	Stainless Steel	1 ½ in	50 cfm	½ in Quick Connect	—	Tornado	98697	**32EY90**
Wet/Dry	20 gal	Steel	1 ½ in	60 cfm	½ in FNPT	Air Hose ¾ in x 20 ft, 1 ½ in x 20 ft Standard Duty Vacuum Hose, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201DC	**422V58**
Wet/Dry	20 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Air Hose ½ in x 20 ft, 24 in Metal Crevice Tool, 1 ½ in x 20 ft Standard Duty Vacuum Hose, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201SC	**422V59**
Wet/Dry	30 gal	Steel	1 ½ in	60 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in x 20 ft Air Supply Hose with Fittings	Guardair	N301DC	**3PXN2**
Wet/Dry	30 gal	Steel	2 in	89 cfm	½ in FNPT	30 gal Vacuum Generating Head, 4 ft Aluminum Wand with 12 in Wide Floor Tool, 2 in x 20 ft Standard Duty Vacuum Hose, 24 in Metal Crevice Tool, Standard Cartridge Filter, (3) Retaining Spring, ¾ in x 20 ft Air Hose, 30 gal Steel Drum, 30 gal Drum Dolly	Guardair	N301BC	**3PXN1**
Wet/Dry	55 gal	Steel	2 in	89 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in x 20 ft Air Supply Hose with Fittings	Guardair	N551BC	**3PXN3**
Wet/Dry	55 gal	Steel	2 in	163 cfm	¾ in FNPT		Guardair	N552BC	**3PXN4**
Accessories									
Dolly Carrier Jumbo 4-Wheel for 36NL99							Tornado	98088	**24UL14**
Exhaust Silencer Insert Foam for 422V57, 422V58 and 422V59							Guardair	N686	**3PXP1**
Adapter Assembly for 32EY90							Tornado	90480	**24UL90**
Floor Tools and Nozzles for 422V57, 422V58 and 422V59							Guardair	N692	**3PXR7**
Maintenance Kit for 3PXN2 and 3PXN1							Guardair	NMK30	**5JJD4**
Maintenance Kit for 3PXN3 and 3PXN4							Guardair	NMK55	**5JJD3**
3/4" x 20 ft. Air Supply Hose for 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N606	**5JJC7**
Cartridge Filter for 3PXN2 and 3PXN1							Guardair	N635	**3PXP2**
Cartridge Filters, Pkg. of 6 for 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635PK	**3PXP3**
Vacuum Bags for 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635B	**3PXP5**
Cartridge Filter for 3PXN2, 3PXN1, 3PXN3 and 3PXN4							Guardair	N635H	**3PXP7**
2" Vacuum Attachment Kit for 3PXN3							Guardair	NSVK20	**5JJC9**
Vacuum Hose, 2" x 20-ft. for 3PXN1, 3PXN3 and 3PXN4							Guardair	N67020	**3PXP8**
20" Plastic Extension Wand for 3PXN4							Guardair	N842	**5JJF1**
3" Dia. Plastic Dust Brush for 3PXN4							Guardair	N843	**5JJF2**
9" Plastic Crevice Tool for 3PXN4							Guardair	N849	**5JJF3**
Hose Connector for 3PXN1, 3PXN3 and 3PXN4							Guardair	N671	**3PXR1**
55-gal. Dolly Assembly for 3PXN3 and 3PXN4							Guardair	N668	**5JJC8**

GUARDAIR NORTECH PNEUMATIC VACUUM PRODUCTS

Static-Conductive Pneumatic Drum Vacuums

- Wet/Dry pickup

Drum vacuums with static-conductive components suppress the buildup of electrical charges, which can cause nuisance shocks. They're ideal for vacuuming talc, powders, and other substances that can generate static electricity. They operate on a compressed-air supply to suction dust and dirt or liquid spills into their drum for disposal. These air-powered vacuums withstand high-frequency use and reduce the risk of downtime since they have no electric motor to burn out. They're commonly powered by air compressors at construction sites or pneumatic hoses in manufacturing facilities.

210AW1

422V65

3PXT3

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Includes	Brand	Mfr. Model	Item No.
Drum Vacuums								
Standard Filtration								
5.5 gal	Steel	1 ½ in	73 cfm	⅜ in FNPT	Mounting Plate, 1 ½ in x 10 ft Hose, Crevice Tool, 20 ft Air Hose, Grounding Lug	Guardair	MV2000NED	**210AW1**
20 gal	Steel	1 ½ in	60 cfm	½ in FNPT	Static Conductive Air Hose ¾ in x 20 ft, 1 ½ in x 20 ft Static Conductive Vacuum Hose, 20 Gallon Drum Dolly, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201DCNED	**422V65**
20 gal	Steel	1 ½ in	61 cfm	½ in FNPT	Static Conductive Air Hose ½ in x 20 ft, 24 in Metal Crevice Tool, 4 ft Aluminum Wand, 12 in Wide Floor Tool	Guardair	N201SCNED	**422V66**
30 gal	Steel	1 ½ in	60 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in x 20 ft Air Supply Hose with Fittings	Guardair	N301DCNED	**3PXT8**
30 gal	Steel	1 ½ in	89 cfm	¾ in FNPT		Guardair	N301BCXNED	**3PXT7**
30 gal	Steel	2 in	89 cfm	¾ in FNPT		Guardair	N301BCNED	**3PXT6**
55 gal	Steel	1 ½ in	60 cfm	¾ in FNPT		Guardair	N551DCNED	**3PXT5**
55 gal	Steel	1 ½ in	89 cfm	¾ in FNPT	4 ft Aluminum Wand with 12 in Wide Floor Tool, 1.5 in x 20 ft Static Conductive Vacuum Hose, 24 in Metal Crevice Tool, Standard Cartridge Filter, (3) Retaining Spring, Static Conductive Air Hose ¾ in x 20 ft, 55 gal Steel Drum, 55 gal Drum Dolly	Guardair	N551BCXNED	**3PXT4**
55 gal	Steel	2 in	89 cfm	¾ in FNPT	12 in W Metal Wet/Dry Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in x 20 ft Air Supply Hose with Fittings	Guardair	N551BCNED	**3PXT3**
55 gal	Steel	1 ½ in	163 cfm	¾ in FNPT	12 in W Metal Floor Tool with 4 ft Wand, 24 in L Metal Crevice Tool, ¾ in x 20 ft Air Supply Hose with Fittings	Guardair	N552BCXNED	**3PXT2**
55 gal	Steel	2 in	163 cfm	¾ in FNPT		Guardair	N552BCNED	**3PXT1**
Accessories								
Exhaust Silencer Insert Foam for 422V65, 422V66, 3PXT8, 3PXT6, 3PXT4, 3PXT2 and 3PXT1						Guardair	N686	**3PXP1**
Floor Tools and Nozzles for 422V65, 422V66, 3PXT7, 3PXT8, 3PXT4 and 3PXT2						Guardair	N692	**3PXR7**
Maintenance Kit for 3PXT8, 3PXT7 and 3PXT6						Guardair	NMK30	**5JJD4**
Maintenance Kit for 3PXT5, 3PXT4, 3PXT3, 3PXT2 and 3PXT1						Guardair	NMK55	**5JJD3**
12"W Aluminum Vacuum Attachment Kit for 3PXT3						Guardair	N639	**5JJE2**
Static Conductive Standard for 422V65, 422V66, 3PXT7 and 3PXT4						Nortech	N653	**24JW61**
Static Conductive Standard Vacuum Hose for 3PXT6 and 3PXT1						Nortech	N654	**24JW62**
Vacuum Hose, 2" x 20-ft. for 3PXN1, 3PXN3, 3PXN4 and 3PXT3						Guardair	N67020	**3PXP8**

Scan. Order. Done.
Details on page A1.

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

31LZ13

30RV82

54FH44

19TT53

36TU92

Corded Dust Extractors

- Wet/Dry pickup

Plug extractors into an outlet near machinery and power tools to collect dust from cutting, sanding, and grinding operations. They are commonly used in workshops, factories, and other locations. Dust extractors draw in dust as it's produced by machinery to help prevent dust from becoming airborne or accumulating on floors, surfaces, and tools.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	No. of Motor Stages	Includes	Brand	Mfr. Model	Item No.
Standard Filtration									
5 ¾ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	Filter, Fleece Filter Bag, Tool Coupling With Suction Force Reducer	Fein	92035236090	**31LZ13**
8 ½ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	(2) Extension Tubes, Brush, Crevice, Filter, Fleece Filter Bag, Floor Brush, Handle, Tool Coupling With Suction Force Reducer	Fein	92036060090	**31LZ14**
8 ½ gal	Plastic	1 ⅜ in	151 cfm	1 ½	2	Filter, Filter Bag, Suction Hose, Tool Coupling With Suction Control	Fein	92036236090	**31LZ16**
8 ½ gal	Plastic	1 ⅜ in	153 cfm	1 ½	2	(2) Metal Extension Tubes, 13 ft Hose, Adapter, Brush, Crevice Tool, Disposable Bag, Elbow, Micron Filter, Push Handle, Tool Coupling	Fein	92029060090	**54FH41**
8 ½ gal	Plastic	1 ⅜ in	154 cfm	1 ½	2		Fein	TURBO X AC	**54FH42**
16 gal	Plastic	2 ¼ in	130 cfm	5	1	(2) Extension Wands, (2) Wunderbag Micro Pre-Filters, 12 Ft Hose, Crevice Tool, Floor Tool, Inner Filter, Outer Filter	Dustless Technologies	D1603	**35YK86**
HEPA Filtration									
8 gal	Plastic	1 ¼ in	150 cfm	1 ⅞	1	(2) HEPA Filter, Anti-Static Hose	DeWalt	DWV010	**30RV82**
8 ⅔ gal	Plastic	1 ¼ in	151 cfm	1 ⅜	2	(2) Suction Tubes, Combination Nozzle, Crevice Nozzle, Dusting Brush, Elbow, Fleece Filter Bag, HEPA Filter, Tool Coupling with Suction Power Control	Fein	Turbo II HEPA Set	**55YC64**
8 ½ gal	Plastic	1 ⅜ in	155 cfm	1 ½	2	(2) Metal Extension Tubes, 13 ft Hose, Adapter, Brush, Crevice Tool, Disposable Bag, Elbow, HEPA Filter, Push Handle, Tool Coupling	Fein	TURBO X AC HEPA	**54FH44**
9 gal	Plastic	1 ⅜ in	150 cfm	—	2	Airsweep 9 gal Auto Filter Clean Dust Extractor, HEPA Filter	Bosch	VAC090AH	**19TT53**
9 gal	Plastic	1 ⅜ in	150 cfm	—	2	Airsweep 9 gal Semi-Auto Filter Clean Dust Extractor	Bosch	VAC090S	**19TT54**
9 gal	Plastic	1 ⅜ in	150 cfm	—	1	HEPA Flat Filter, VB090F Fleece Filter Bag, VH1-35 9.85 ft Vacuum Hose, VX100 Bend Nozzle, VX120 Power Tool Adapter Nozzle	Bosch	VAC090AH + L-BOXX-3	**317D86**
10 gal	Plastic	1 ¼ in	155 cfm	1 ⅞	—	(2) HEPA Filter, Anti-Static Hose	DeWalt	DWV012	**38A867**
14 ½ gal	Plastic	1 ⅜ in	150 cfm	—	2	9.85 ft Vacuum Hose, Fleece Filter Bag, Hepa Flat Filter, Vx100 Bend Nozzle, Vx120 Power Tool Adapter Nozzle	Bosch	VAC140AH	**446P26**
16 gal	Plastic	2 ¼ in	131 cfm	5	1	(2) Certified HEPA Filter and HEPA Filter Cover, (2) Extension Wands, 12 Ft Hose, 16 gal Canister, Crevic Tool, Floor Tool	Dustless Technologies	D1606	**36TU92**
17 gal	Plastic	1 ⅜ in	300 cfm	—	3	(5) Heavy Duty Three Layer Filter Bag, 16 Ft Anti-Static Vacuum Hose, Elbow, Floor Set, Hepa Filter, Suction Tubes	Bosch	GAS20-17AH	**499K54**

55AC72

492P05

492P06

Cordless Dust Extractors

Extractors run on battery power and connect to stationary or handheld power tools to collect dust from cutting, sanding, and grinding operations. They're commonly used at remote jobsites and locations where a power outlet isn't available. Dust extractors draw in dust as it's produced by machinery to help prevent dust from becoming airborne or accumulating on floors, surfaces, and tools.

Vacuum Pickup Type	Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Includes Battery	Includes	Mfr. Model	Item No.
HEPA Filtration								
Dry	0.06 gal	Plastic	—	—	Yes	Battery, Belt Hook, Charger, Shoulder Strap	DWH161D1	**55AC72**
Dry	0.06 gal	Plastic	—	—	No	Belt Hook, Shoulder Strap	DWH161B	**55AC73**
Wet/Dry	2 gal	Plastic	1 ¼ in	125 cfm	Yes	Fleece Bag, Wireless Tool Control Remote, (2) HEPA Filters	DCV585T2	**492P05**
Wet/Dry	2 gal	Plastic	1 ¼ in	125 cfm	No	Dust Extractor, Fleece Bag, Wireless Tool Control Remote, (2) HEPA Filters	DCV585B	**492P06**

Description	Mfr. Model	Item No.
Required Accessories		
Battery for 55AC73	DCB203	**21RV46**
Battery Charger for 55AC73	DCB115	**11A157**
Battery for 492P06	DCB606	**48XP89**
Battery Charger for 492P06	DCB118	**49EM80**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Power-On-Demand Vacuum

▪ Dry pickup

Connects to a power tool for dust extraction and shuts off automatically when the tool shuts off. It has an outlet on the operating panel for plugging in power tools, so that the vacuum will run only when the power tool runs. It's used for collecting dust from cutting, sanding, drilling, and grinding tools. Vacuum also functions as wet/dry vacuums for cleaning dust and dirt or liquid spills.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Mfr. Model	Item No.
HEPA Filtration						
8 gal	Plastic	1 ⅜ in	148 cfm	1 15⁄16	8960-20	**446P35**

54TW95

210AW0

GUARDAIR.

Pneumatic Personnel Cleaning Stations

▪ Wet/Dry pickup

Vacuum dust, powders, and chips from workers' clothing and skin. Stations provide an alternative to dusting off with air guns, which generate potentially dangerous pressures that could cause eye or ear injuries. Powered by compressed air and have a brush attachment to loosen particles so they can be suctioned into the attached tank. Nonelectrical discharge (NED) protection suppresses static-charge buildup to allow use with combustible materials such as metal or coal dust, flour, grain, and sugar.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Mfr. Model	Item No.
Standard Filtration					
5.5 gal	Polyethene	1 ½ in	73 cfm	CS3000	**54TW95**
5.5 gal	Steel	1 ¼ in	73 cfm	CS3000NED	**210AW0**

54FH67

48GP72

Husqvarna

Dustless Technologies

Slurry Vacuums

▪ Wet pickup

Suction up the mix of water and dust generated by concrete cutting, drilling, grinding, and sawing. They handle slurries, which are typically too heavy for standard wet/dry vacuums. Slurry vacuums help prevent hazardous dust from becoming airborne and keep slurry from clogging drains and entering sewage systems.

Tank Size	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Brand	Mfr. Model	Item No.
Standard Filtration							
15 gal	Stainless Steel	1 ½ in	118 cfm	1 ½	Husqvarna	W70P	**54FH67**
55 gal	Steel	1 ½ in	115 cfm	6 ½	Dustless Technologies	H0904	**48GP72**

Nilfisk DRI-EAZ

Built-In-Pump Vacuums

10W854

39C364

▪ Wet pickup

Combine a wet/dry vacuum for cleaning up dust, dirt, or liquid spills and a pump for transferring large volumes of water. They can suction debris or liquids into the tank like a standard shop vacuum or can connect to a garden hose to pump water through the hose as it's suctioned into the vacuum. This pumping feature eliminates the need to empty the tank when clearing water from flooded basements or broken pipes.

10W854 operates in three modes: vacuum only, pump only, or vacuum and pump. **39C364** quickly removes water from flooded structures.

Tank Size	Vacuum Collection Type	Tank Material	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	No. of Motor Stages	Includes	Brand	Mfr. Model	Item No.
Standard Filtration										
19 gal	Bagless	Steel	1 ½ in	140 cfm	1 ⅜	1	25 ft Discharge Hose, Curved Wand, Extension Tube, Filter Cartridge, Industrial Squeegee, Sump Pump	Nilfisk	M60010	**10W854**
HEPA Filtration										
12 gal	Bagless	Plastic	2 in	100 cfm	5	2	25 ft Section of 2 in Vacuum Hose with Cuffs	Dri-Eaz	F479	**39C364**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Sanitaire Hoover Commercial Dayton

Bagless, Corded Upright Vacuums

- Dry pickup

Bagless, corded upright vacuums collect dirt, dust, and debris in their dirt cup or chamber for disposal. The see-through chamber shows the level of debris, so it can be cleared out when full to prevent reduced suction or an overheated motor. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.

Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Power Cord Length	Head Height Adjustment	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
12 in	120 cfm	14.0 lb	79 dB	30 ft	6-Position	—	Sanitaire	SC689B	**4LU78**
12 in	145 cfm	18.5 lb	79 dB	50 ft	6-Position	Removable Fan Chamber and Furnitrue Guard	Sanitaire	SC887E	**4WYR3**
13 ½ in	36.6 cfm	16.1 lb	79 dB	25 ft	5-Position	Crevice Tool, Dusting Brush, Extension Wand, Multi-Purpose Tool	Hoover	UH71100	**55XC10**
HEPA Filtration									
13 in	59 cfm	15.7 lb	Not Rated	35 ft	5-Position	Tools	Hoover	CH53010	**24Z197**
13 in	60 cfm	15.7 lb	83 dB	50 ft	5-Position	Tools	Dayton	24Z193	**24Z193**
13 in	135 cfm	17 lb	69 dBA	40 ft	7-Position	Crevice Tool, Dusting Brush, Hose, Wand	Sanitaire	SC5745D	**60NP73**
15 in	135 cfm	18 lb	70 dBA	40 ft	7-Position	10 ft Stretch Hose, Crevice Tool, Dusting Brush, Two-Piece Wand	Sanitaire	SC5845D	**60NP75**
Replacement Parts and Accessories									
Vacuum Cleaner Belts for 4LU78 and 4WYR3, Pkg. of 24							Sanitaire	6610012	**487A26**
Vacuum Cleaner Belt for 4WYR3							Sanitaire	30563B	**23YU38**
Vacuum Cleaner Belts for 60NP73 and 60NP75, Pkg. of 24							Sanitaire	6612012	**487A27**
Upright Vacuum Brush Roll, Chrome Steel for 4LU78 and 4WYR3							Sanitaire	53270A	**1AFY9**
HEPA Cartridge Filter for 60NP73 and 60NP75							Sanitaire	61840	**2TRL5**
Hose Adapter for 60NP73 and 60NP75							Sanitaire	71725313N	**24YZ82**

Bissell BigGreen Commercial Sanitaire Oreck Commercial Tennant

Bagged, Corded Upright Vacuums

- Dry pickup

Corded upright vacuums plug into an electrical outlet to lift dirt from carpet fibers. Reusable bags collect dirt, dust, and debris in bags that can be emptied and reused making it easy to recover small items (such as jewelry and toys). Disposable bags collect dirt, dust, and allergens in replaceable bags that are discarded when full. They minimize contact with collected debris since their disposable bags don't need to be shaken out like reusable bags or cleaned out like a dirt cup. Both types of bags act as filters to trap dust and allergens.

Vacuum Collection Type	Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Power Cord Length	Vacuum Capacity	Includes	Brand	Mfr. Model	Item No.
Vacuums										
Standard Filtration										
Reusable Bag	12 in	95 cfm	13.5 lb	67 dB	50 ft	2 gal	Nonstick Shakeout Dust Bag	Bissell	BG100	**36RE63**
Reusable Bag	12 in	105 cfm	14.5 lb	Not Rated	50 ft	2 gal	Magnetic Bar, Nonstick Shakeout Dust Bag	Bissell	BG101	**36RE64**
Reusable Bag	12 in	120 cfm	12.2 lb	78 dB	30 ft	4 ½ gal	—	Sanitaire	SC679K	**4WT59**
Reusable Bag	12 in	145 cfm	15.8 lb	79 dB	50 ft	4 ½ gal	Removable Fan Chamber and Large Rear Wheels for Easy Maneuverability	Sanitaire	SC886G	**3U712**
Reusable Bag	16 in	105 cfm	16.5 lb	Not Rated	50 ft	2 gal	Magnetic Bar, Nonstick Shakeout Dust Bag	Bissell	BG102	**36RE65**
Reusable Bag	16 in	145 cfm	17.0 lb	79 dB	50 ft	4 ½ gal	Removable Fan Chamber	Sanitaire	SC899H	**3U478**
Disposable Bag	12 in	39 cfm	9.1 lb	Not Rated	40 ft	2 ¼ gal	Cloth Outer Bag	Oreck	U2000RB2L-1	**30RJ32**
Disposable Bag	12 in	108 cfm	8.0 lb	Not Rated	40 ft	2 ¼ gal	Easy-Use Carrying Handle	Oreck	U2000R-1	**36N094**
Disposable Bag	12 in	145 cfm	16.2 lb	69 dB	50 ft	1 ¼ gal	Removable Fan Chamber and Furnitrue Guard	Sanitaire	SC889B	**4WYR4** *
Disposable Bag	12 in	145 cfm	16.2 lb	79 dB	50 ft	1 ½ gal	Removable Fan Chamber	Sanitaire	SC888N	**1AFZ2** *
Disposable Bag	12 in	145 cfm	17.0 lb	79 dB	50 ft	1 ½ gal	Belt	Sanitaire	SC688B	**416J15**
HEPA Filtration										
Disposable Bag	12 in	39 cfm	8.0 lb	Not Rated	35 ft	2 ¼ gal	—	Oreck	XL2100RHS	**36N095**
Disposable Bag	12 in	39 cfm	8.0 lb	Not Rated	40 ft	2 ¼ gal	Cog V-Belt, Easy-Use Carrying Handle	Oreck	U2000RB-1	**36N096**
Disposable Bag	12 in	105 cfm	17.0 lb	68 dB	40 ft	1 ½ gal	On-Board Crevice Tool, Upholstery Brush, Wand	Sanitaire	SC5500B	**48XL30**
Disposable Bag	13 in	119 cfm	20.0 lb	68 dB	50 ft	1 gal	Telescopic Wand	Sanitaire	SC9180D	**1TGZ5** *
Disposable Bag	14 in	120 cfm	16.0 lb	70 dB	50 ft	1 gal	Dusting Brush, On-Board Crevice Tool, Telescopic Aluminum Wand	Tennant	1060829	**5PFR9** †
Disposable Bag	14 in	120 cfm	18.0 lb	70 dB	50 ft	1 gal	4:1 Stretch Hose, Crevice Tool, Dusting Brush, Spare Belt And Bag, Telescopic Aluminum Wand	Tennant	1068027	**15A756** †
Disposable Bag	15 in	135 cfm	18 lb	70 dBA	40 ft	1 ½ gal	Crevice Tool, Dusting Brush, Hose, Wand	Sanitaire	SC5815E	**60NP72**
Disposable Bag	12 in	105 cfm	17.0 lb	68 dB	40 ft	1 gal	On-Board Crevice Tool, Upholstery Brush, Wand	Sanitaire	SC5505B	**487A25**
Replacement Parts and Accessories										
Vacuum Cleaner Bags for 36RE63								Bissell Commercial	2037857	**55HD92**
Snap-On/Snap-Off Disposable Bags for 36N095 and 36N096, Pkg. of 25								Oreck	PK800025	**4LB34**
Vacuum Cleaner Belt for 36RE63, 36RE64 and 36RE65								Bissell Commercial	2037843	**36RE91**
Vacuum Cleaner Belt for 3U478, 4WYR4 and 1AFZ2								Sanitaire	30563B	**23YU38**
Vacuum Cleaner Belts for 5PFR9, Pkg. of 6								Tennant	9007772	**12H380**
Upright Vacuum Brush Roll, Chrome Steel for 4WT59, 3U712 and 1AFZ2								Sanitaire	53270A	**1AFY9**
Standard Cartridge Filter for 5PFR9								Tennant	9007746	**12H379**
HEPA Cartridge Filter for 60NP72								Sanitaire	61840	**2TRL5**

***** *CRI (Carpet and Rug Institute) Green Label approved.* **†** *CRI Silver Seal of Approval.*

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Bagless, Cordless Upright Vacuums

- Dry pickup

Operate without the limitations of a power cord to collect dirt and debris in their dirt cup or chamber for disposal. They typically have a see-through chamber that shows the level of debris, so it can be cleared out when full to prevent reduced suction or an overheated motor. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.

Makita Vacuums—2-stage filtration system. Floor nozzle aids in maneuverability and debris collection.

Sanitaire Vacuum—Low profile allows machine to lay flat for extra maneuverability under furniture.

53RH09

14F055

402D40

55WP10

Description	Cleaning Path Width	Weight	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums							
Standard Filtration							
12V max CXT, White—Delivers up to 21 min. of continuous use	8 ½ in	2.2 lb	No	(1) White Extension Attachment, (1) Floor Nozzle, (1) Crevice Nozzle, (1) White Crevice Nozzle Holder, (1) Pre-Filter, (1) Cloth Vacuum Filter	Makita	LC06ZW	**53RH09**
18V LXT, White—Delivers up to 13 min. of continuous use	8 ½ in	2.7 lb	Yes	Battery, Charger, Ivory Extension Attachment, Floor Nozzle, Crevice Nozzle, Pre-Filter, Cloth Filter	Makita	XLC02RB1W	**14F055**
18V LXT, Black—Delivers up to 13 min. of continuous use	8 ½ in	2.7 lb	Yes	(1) Pre-Filter, (1) Cloth Vacuum Filter, (1) 8 in Black Floor Nozzle, (1) Black Crevice Nozzle Holder, (1) 6 in Black Crevice Nozzle, (1) Black Extension Attachment	Makita	XLC02R1B	**420C75**
18V LXT, White—Delivers up to 33 min. of continuous use	8 ½ in	2.7 lb	No	(1) White Extension Attachment, (1) Floor Nozzle, (1) Crevice Nozzle, (1) Pre-Filter, (1) Cloth Vacuum Filter	Makita	XLC02ZW	**5WFP4**
18V LXT, Black—Delivers up to 33 min. of continuous use	8 ½ in	3.2 lb	No	(1) Pre-Filter, (1) Cloth Vacuum Filter, (1) 8 in Black Floor Nozzle, (1) Black Crevice Nozzle Holder, (1) 6 in Black Crevice Nozzle, (1) Black Extension Attachment	Makita	XLC02ZB	**402D40**
TRACER—Delivers up to 40 min. of continuous use	12 in	8 lb	Yes	Battery, Charger	Sanitaire	SC7100A	**55WP10**
Required Accessories							
Battery Charger for 53RH09					Makita	DC10WD	**46AD64**
Battery for 53RH09					Makita	BL1021B	**52KE43**
Battery for 408L94, 408L95, 52RX15, 5WFP4 and 402D40					Makita	BL1850B	**38XU33**
Battery Charger for 408L94, 408L95, 52RX15, 5WFP4, 402D40 and 54XJ38					Makita	DC18RC	**4NNN4**

Bagged, Cordless Upright Vacuums

- Dry pickup

These vacuums have a disposable bag and operate without a power cord to trap dirt, dust, and allergens in replaceable bags that are discarded when full. These vacuums keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for use in healthcare and educational settings.

54XJ38 has 2-speeds, runs for up to 60 min., and uses paper or cloth bags. **54YP40** runs up to 47 min. and features a battery life display. **55EX06** has the option to go cordless for up to 72 min. or plug into an outlet. Includes 4-layer micro filter bag. **488Z16** runs up to 50 min., and has automatic height adjustment. **55EX34** runs up to 49 min., has a 2-stage motor, and auto stop feature.

54XJ38

54YP40

488Z16

55EX34

Description	Cleaning Path Width	Vacuum Air Flow	Weight	Sound Level	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
LXT	—	35 cfm	2.9 lb	—	No	Cloth Dust Bag, Crevice Tool, Extension, Filter, Floor Nozzle, Paper Dust Bags	Makita	XLC01ZB	**54XJ38**
QUICKBOOST	13 in	60 cfm	12.4 lb	70 dB	Yes	Battery, Charger	Sanitaire	SC7500A	**54YP40**
FreeFlex	14 in	53 cfm	17.6 lb	75 dB	Yes	(2) Filters	Proteam	107499	**55EX06**
HEPA Filtration									
Lightweight Independence	10 in	60 cfm	11 lb	70 dB	Yes	(1)Spare Belt, (1)Bag	Nobles	1236915	**488Z16**
MPWR	13 in	91 cfm	10.1 lb	71 dB	No	Belt, Filter Bag	Hoover	CH95519	**55EX34**
Required Accessories									
Battery and Charger Kit for 54XJ38							Makita	BL1820BDC1	**48WA63**
Battery for 54XJ38							Makita	BL1820B	**33RT41**
Battery Charger for 408L94, 408L95, 52RX15, 5WFP4, 402D40 and 54XJ38							Makita	DC18RC	**4NNN4**
Battery Charger for 55EX34							Hoover	CH07150	**55EX38**
Li-Ion Battery for 55EX34							Hoover	CH27312	**785TX8**

Stick Sweepers

Floor sweepers pick up dust and debris from carpeting as well as hardwood, tile, or vinyl flooring. They have a slim cleaning head and a pivoting handle for cleaning under furniture and machinery. Their quiet operation makes them suitable for use in hotels and hospitality environments.

Rubbermaid Sweepers—Corner brushes help clean tight spots. **5M865** cleans bare floors and low-pile carpets. **5M867** has a low profile for cleaning under furniture on a variety of floor surfaces. **4HC27** includes soft bumpers to product furniture on bare floors or low-pile carpets.

Bissell Sweepers—36RE54–36RE56 include dual-debris canisters, plus corner brushes for hard-to-reach areas on bare floors and low-pile carpets. **36RE53** is battery-operated with a 90-min. run time. Roller brush sweeps dirt into its dustpan.

5M865

5M867

4HC27

36RE54

36RE53

Cleaning Path Width	Sweeper Power Source	Sweeping Mechanism	Sweeping Mechanism Material	Body Material	Brand	Mfr. Model	Item No.
6 ½ in	Manual	Single Brush	Crimped Nylon	Plastic, Steel	Rubbermaid	FG421288BLA	**5M865**
7 ½ in	Manual	Brushless	Rubber	Plastic, Steel	Rubbermaid	FG421588BLA	**5M867**
7 ½ in	Manual	Dual Brush	Crimped Nylon, Natural Boar	Plastic, Steel	Rubbermaid	FG421388BLA	**4HC27**
7 ½ in	Manual	Single Brush	Nylon	Plastic	Bissell	BG25	**36RE54**
9 ½ in	Manual	Dual Brush	Nylon	Plastic	Bissell	BG23	**36RE55**
9 ½ in	Manual	Dual Brush	Rubber	Plastic	Bissell	BG21	**36RE56**
11 in	Battery-Operated	Single Brush	Nylon	Plastic	Bissell	BG9100NM	**36RE53**

Scan. Order. Done.
Details on page A1.

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

38EW21

Bagged, Corded Backpack Vacuums

- Dry pickup

Vacuums trap dirt, dust, and allergens. Debris is contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings.

Vacuum Collection Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes	Brand	Mfr. Model	Item No.
Vacuums								
Standard Filtration								
Reusable Bag	106 cfm	10 lb	68 dB	1 ½ gal	(2) Filter Bags, 12 in Carpet Tool with Scallops, 13 in Crevice Tool, 13 in Curved 1.25 in Wand with Button Lock, 24 in to 40 in Telescoping Wand, 4 ft Static-Dissipating 1.5 in Hose, 50 ft Extension Cord, Cuff Adapter, Dust Brush, Upholstery Tool	Proteam	103024	**5TZH8**
	150 cfm	10 lb	67 dB	1 ½ gal	(2) Filter Bags, 14 in Xover Multi-Surface Floor Tool, 17 in Crevice	Proteam	107118	**33KE27**
	153 cfm	11.6 lb	70 dB	1 ½ gal	Tool, 3 in Dust Brush, 4 ft Static-Dissipating 1.5 in Hose, 42 in to 59 in	Proteam	107310	**38EW21**
	153 cfm	12 lb	70 dB	2 ½ gal	Telescoping 1.5 in Wand, 5 in Upholstery Tool, 50 ft Extension Cord	Proteam	107303	**38EW20**
Disposable Bag	120 cfm	9.5 lb	68 dB	1 ½ gal	(2) Extension Wands, Bristle Floor Brush, Crevice Tool, Paddle Tool, Round Dusting Brush, Scalloped Face Rug Tool, Upholstery Tool with Slide On Brush	Bissell Commercial	BG1006	**36RE51**
	150 cfm	11 lb	66 dB	2 ½ gal	(2) Filters, 14 in ProBlade Carpet, 17 in Crevice Tool, 3 in Dusting Brush, 5 in Upholstery Tool, ProBlade Hard Surface, Straight Telescoping Wand	Proteam	107604	**55EX08**
	150 cfm	11 lb	66 dB	2 ½ gal	(2) Filter Bags, 14 in Xover Multi-Surface Floor Tool, 17 in Crevice Tool, 3 in Dust Brush, 4 ft Static-Dissipating 1.5 in Hose, 42 in to 59 in Telescoping 1.5 in Wand, 5 in Upholstery Tool, 50 ft Extension Cord	Proteam	107119	**33KE26**
HEPA Filtration								
Disposable Bag	92 cfm	11.7 lb	68 dB	1 ½ gal	Intercept Micro Filter Bag	Hoover	CH34006	**48WK14**
	106 cfm	10 lb	68 dB	1 ½ gal	Blowing Attachments, Crevice Tool, Dusting Brush, Floor to Carpet Brush, Pet Hair Remover, Telescopic Tube, Turbo Brush	Atrix	BP50-G	**21AD04**
	111 cfm	13 lb	68 dB	1 ½ gal	(4) Stage HEPA Filtration, 14 in Carpet Floor Tool, 14 in Hard Floor Tool, 15 ft Crush Proof 4:1 Stretch Hose and Robust, Crevice And Upholstery Tool, Deuter Branded Hiking Harness, Dust Brush, Robust Chrome Telescoping Wand	Nobles	9013477	**45NY78**
	120 cfm	9.2 lb	66 dB	1 ½ gal	14 in All Purpose Floor Tool, 14 in Floor Tool, 17 in Crevice Tool, 2 ½ in Dusting Brush, 5 in Upholstery Tool and Adapter, 57 in 2-pc. Two Bend Aluminum Wand with Button Lock	Hoover	C2401	**6ENE2**
	139 cfm	10.8 lb	62 dB	2 ½ gal	(5) Dust Bags, Crevice Cone, Curved Plastic Tube, Dust Bag, Dust Brush, Floor Nozzle, HEPA Filter, Sack Filter, Telescoping Wand	Nilfisk	9060709010	**4NFP4**
Vacuum Bags, Tool Kit and Filter								
Standard Intercept Micro Filter Vacuum Bags, 6 qt., Open Collar for 33KE27, Pkg. of 10						Proteam	100431	**2RKX4**
Standard Intercept Micro Filter Vacuum Bags, 10 qt., Open Collar for 33KE26, Pkg. of 10						Proteam	100331	**2RKX8**
Standard Intercept Micro Filter Vacuum Bags, 6 qt., Triangular Open Collar for 38EW21, Pkg. of 10						Proteam	107314	**35XE92**
Standard Intercept Micro Filter Vacuum Bags, 10 qt., Triangular Open Collar for 38EW20, Pkg. of 10						Proteam	107313	**38EW27**
HEPA Vacuum Bags for 21AD04, Pkg. of 10						Atrix	VACBP6-10P	**21AD05**
Standard Bags, 10-qt., for 45NY78, Pkg. of 12						Nobles	9009380	**21ML41**
Standard Disposable Bags for 4NFP4, Pkg. of 5						Nilfisk	1471097500	**4RYH9**
6-Piece Tool Kit for 4NFP4						Nilfisk	M70037	**4RXZ1**
HEPA Replacement Upstream Filter for 4NFP4						Nilfisk	1471104500	**4RYF7**

Bagless, Cordless Backpack Vacuums

- Dry pickup

18V, M18 FUEL series vacuums rest on your back and operate without the limitations of a power cord to collect dirt and debris in their dirt cup or chamber for disposal. The chamber also allows small items to be recovered from the collected debris. Vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor. Brushless motor has the suction power to clean up drywall dust, concrete dust, and wood/metal shavings.

484X11

Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Mfr. Model	Item No.
Vacuums							
HEPA Filtration							
55 cfm	15.2 lb	76 dB	1 gal	Yes	6 ft Hose, Charger, Crevice Tool, Dust Extractor Adapter, Extension Wand, Floor Tool, HEPA Filter	0885-21HD, 48-11-1880	**338AP3**
55 cfm	15.2 lb	76 dB	1 gal	No	6 ft Flexible Hose, Crevice Tool, Dust Extractor Adapter, Floor Tool, HEPA Filter, Telescoping Extension Wand	0885-20	**484X11**
57 cfm	15.3 lb	74 dB	1 gal	Yes	(2)Battery Pack, 3-in-1 Backpack Vacuum, Charger, Crevice Tool, Dust Extraction Adapter, Flexible Hose, Floor Tool, HEPA Filter, Telescoping Extension Wand	0885-21HD, 48-11-1890	**643F80**
M18 REDLITHIUM HIGH DEMAND							
Batteries						48-11-1890	**45KM67**
Replacement Part/Required Accessory							
M18 Battery Charger - 6-Port						48-59-1806	**40K996**

327EF7

55EX31

Bagged, Cordless Backpack Vacuums

- Dry pickup, except 494J35 is wet/dry pickup

Vacuums rest on your back and operate without the limitations of a power cord to trap dirt, dust, and allergens. They keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings.

Vacuum Collection Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Reusable Bag	58 cfm	15.5 lb	64 dB	1 ½ gal	Yes	(2) Intercept Micro Filter Bag, Battery, Battery Charger, Crevice Tool, Hose, ProBlade Carpet Floor Tool, ProBlade Hard Surface Floor Tool, Soft Dusting Brush, Straight Telescoping Wand, Upholstery Tool	Proteam	107647	**55NN81**
	58 cfm	17.5 lb	64 dB	1 ½ gal	Yes		Proteam	107645	**55NN80**
HEPA Filtration									
Disposable Bag/ Reusable Bag	70 cfm	9.9 lb	69 dB	½ gal	No	1 in x 39 in Flexible Anti-Static Hose, 11 in Universal Floor Nozzle, Aluminum Telescoping Extension Wand, Bent Pipe, Crevice Nozzle, Filter Dust Bag, Harness, HEPA Filter, Sleeve	Makita	XCV09Z	**494J35**
Reusable Bag	70 cfm	9.9 lb	69 dB	½ gal	No	Aluminum Telescoping Extension Wand, Bent Pipe, Crevice Nozzle, Filter Dust Bag, Flexible Anti-Static Hose, Harness, LED Work Light, Sleeve, Universal Floor Nozzle	Makita	XCV09PT + DML805	**327EF7**
Disposable Bag	70 cfm	9.9 lb	69 dB	½ gal	Yes	Aluminum Telescoping Extension Wand, Bent Pipe, Crevice Nozzle, Filter Dust Bag, Floor Nozzle, Harness, HEPA Filter, Sleeve	Makita	XCV09PT + BL1850B-2	**286RM2**
	70 cfm	19 lb	63 dB	1 ½ gal	Yes	(2) Lightweight Aluminum Wands, (4) Stage HEPA Filtration, 14 in Carpet Floor Tool, 14 in Hard Floor Tool, 15 ft Crush Proof 4:1 Stretch Hose, Crevice Upholstery Tool, Dust Brush, Hiking Harness	Nobles	9017568	**488Z13**
	81 cfm	9.9 lb	71 dB	1 ½ gal	No	(2) HEPA Filters, (2) Hexaguard Filters, Bag, Dusting Brush, Hose, Wand	Hoover Commercial	CH93619	**55EX31**
Required Accessories									
Vacuum Battery Charger for 494J35							Makita	DC18RD	**38XU23**
Vacuum Battery for 494J35							Makita	BL1850B-2	**38XU34**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Sanitaire ATRIX Nilfisk Bissell BigGreen Commercial

Bagged, Corded Canister Vacuums

- Dry pickup

Vacuums trap dirt, dust, and allergens in replaceable bags that are discarded when full. They keep debris contained for disposal to help prevent recirculation of dust and allergens, making them a common choice for vacuuming in healthcare and educational settings. These vacuums have a lightweight wand for cleaning and a canister that houses the electric-powered motor and holds the collected debris. HEPA filter vacuums force air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke. ULPA filters trap more and smaller particulate matter than HEPA filters. **48ME63** is compact for increased portability and maneuverability. **30RR52** cleans hard surfaces, carpet, furniture, and above-floor areas. **566G94** is HEPA safe for immediate containment in hazardous particulate applications. **9RY02** has a large capacity for mold, lead, or asbestos remediation. **36RE57** comes with on-board cleaning tools for carpets, upholstery, and more.

30RR52

9RY02

36RE57

Vacuum Capacity	Weight	Sound Level	Vacuum Air Flow	Power Cord Length	Includes	Brand	Mfr. Model	Item No.
Standard Filtration								
½ gal	10 lb	71 dB	135 cfm	20 ft	(2) Metal Wands, Blower Port, Floor Brush, Crevice Tool, Dust Brush	Sanitaire	SC3683D	**48ME63**
1 gal	14.4 lb	68 dB	68 cfm	32 ft	Combo Carpet/Bare Floor Tool, Dusting Brush, Crevice Tool, 2-pieces Metal Wand	Sanitaire	SC3700A	**30RR52**
HEPA Filtration								
1 gal	10.9 lb	73 dB	99 cfm	25 ft	Crevice Tool, Crevice Tool Brush, Utility Nozzle, Utility Nozzle Brush, Wand, Clear Hose, Hose Plugs, (2) Adjustable Shoulder Straps	Atrix	VACOHCS	**566G94**
4 gal	16.5 lb	53 dB	74 cfm	35 ft	Dust Bag, Hose with Bent End Wand, Telescopic Aluminum Wand, Commination Floor Nozzle, Combination Round Brush/Upholstery Nozzle, Crevice Nozzle	Nilfisk	9055314040	**9RY02**
ULPA Filtration								
2 gal	24 lb	60 dB	106 cfm	50 ft	Crevice Tool, Upholstery Tool, Dusting Brush, Combination Floor Tool, ULPA Filter, HEPA Filter	Bissell Commercial	BGCOMP9H	**36RE57**

Bissell BigGreen Commercial

Bagless, Corded Canister Vacuums

36RE58

55EX49

55EX51

- Dry pickup

Collect dirt, dust, and debris in their dirt cup or chamber for disposal. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor. They have a lightweight wand for cleaning and a canister that houses the electric-powered motor and holds the collected debris.

36RE58 is a handheld canister with maneuverable wheels that is both portable and powerful. **55EX49** and **55EX50** quietly clean carpets and hard floors and prevent dust using three-stage standard filtration system. **55EX51** has a larger capacity, speed control, and a full bag indicator light.

Vacuum Capacity	Weight	Sound Level	Vacuum Air Flow	Power Cord Length	Includes	Brand	Mfr. Model	Item No.
Standard Filtration								
½ gal	11 lb	84 dB	106 cfm	18 ft	2-in-1 Floor Tool, (2) Extension Wands	Bissell Commercial	BGC2000	**36RE58**
2 ⅝ gal	9 lb	68 dB	61 cfm	26 ft	Main Polyester Filter, Hose Nozzle, Crevice Tool, Round Brush, Brush Floor Tool, Vacuum Hose, 2-Piece Wand	Tennant	1244294	**55EX49**
12 gal	13.9 lb	63 dB	92 cfm	40 ft	Exhaust Air Foam Filter, 2-Piece Wand, Hose Nozzle, Crevice Tool, Round Brush, Upholstery Tool, Adjustable Floor Tool	Tennant	1252617	**55EX50**
HEPA Filtration								
16 gal	14.3 lb	63 dB	92 cfm	40 ft	Exhaust Air Cartridge Filter, Telescopic Wand, Hose Nozzle, Crevice Tool, Round Brush, Upholstery Tool, Adjustable Floor Tool	Tennant	1244322	**55EX51**

Makita

Bagless, Cordless Canister Vacuum

- Dry pickup

Collects dirt, dust, and debris in its dirt cup or chamber for disposal. This bagless vacuum eliminates the need for replacement bags and relies on filters to trap dust and allergens and keep debris from entering the motor. Lightweight wand for cleaning. Canister houses the battery-powered motor and holds the collected debris. Delivers up to 64 min. of continuous operation.

52YW51

53YK02

Description	Vacuum Filtration Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Mfr. Model	Item No.
Vacuum									
18V LXT	HEPA	46 cfm	8.4 lb	64dBA	1⁄16 gal	No	Crevice Nozzle, Floor Nozzle, Shoulder Strap, Suction Hose, Telescoping Extension Attachment	DCL501Z	**53YK02**
Required Accessory									
18V LXT Battery and Charger Kit							(2) Batteries and Dual Charger	BL1850B2DC2	**52YW51**

For more vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

9TF54

1VHH4

Computer/Electronics/Data Vacuums

METROVAC® ATRIX

- Dry pickup

Remove dust and dirt buildup from computers, data equipment, and office machines to prevent damage or overheating. They provide an alternative to canned-air dusters for cleaning out keyboards and clearing dust from equipment-cooling fans. Include micro-cleaning attachments for adapting to different cleaning angles and getting into tight spaces.

DataVac Pro Series are all-steel, high-tech vacuums/blowers. **Express** is an ESD-safe vacuum for servicing and cleaning static-sensitive equipment. **Omega Supreme** is also ESD-safe and can be used for collecting hazardous debris such as lead dust, silica dust, and mold. Accessories store in lid.

Description	Vacuum Collection Type	Tank Size	Tank Material	Peak HP	Vacuum Air Flow	Power Cord Length	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
DataVac Pro Series	Disposable Bag	0.33 qt	Steel	¾	65 cfm	12 ft	Metrovac	MDV-1BA	**9TF54**
DataVac/2 Pro Series	Disposable Bag	0.75 qt	Steel	1 ⅛	85 cfm	12 ft	Metrovac	MDV-2TAV	**54DG16**
DataVac/2 Pro Series	Disposable Bag	0.75 qt	Steel	1 ⅝	100 cfm	6 ft	Metrovac	MDV-3TA	**5NJJ6**
DataVac Pro Series Toner Vac	Disposable Bag	0.75 qt	Steel	1 ⅛	85 cfm	12 ft	Metrovac	MDV-2TCA	**16Z966**
HEPA Filtration									
Express	Bagless	0.25 gal	Plastic		79 cfm	12 ft	Atrix	VACEXP-04	**1VHH2**
Omega Supreme	Bagless	1 gal	Plastic	1 13⁄64	99 cfm	12 ft	Atrix	VACOMEGASLFH	**1VHH4**
Filters, Bags and Accessories									
5 Replacement Bags and 2 Toner Filters for 9TF54, 54DG16, 5NJJ6 and 16Z966							Metrovac	TBF-7	**2TUY5**
Standard Cartridge Filter for 1VHH4							Atrix	31700-1P	**1VHH5**
HEPA Cartridge Filters for 1VHH2, Pkg. of 2							Atrix	730333	**1VHH3**
HEPA Cartridge Filter for 1VHH4							Atrix	OF612HE	**1VHH6**
ULPA Cartridge Filter for 1VHH4							Atrix	OF712UL	**2FTK6**

4RXY7

2FTK2

ESD-Safe Vacuums

METROVAC® Nilfisk ATRIX

- Dry pickup

Vacuums dissipate static electricity to avoid damaging sensitive electronic equipment during cleaning. Also known as antistatic vacuums, they create a path for grounding static electricity to prevent discharges that could cause interruptions or failures of computers, printers, data equipment, robotic devices, and other electronics.

Use **45RK33** as a vacuum/blower to remove dust, lint, hair, debris, and paper shreds from electronics. **4RXY7** can be used in both portable and stationary applications with a 4-stage filtration system. **2TUX8** is a complete antistatic vacuum, blower, and dusting system for electronics. **2FTK2** filter canister is resealable and disposable. Captures large volumes of debris and particulate.

Description	Vacuum Collection Type	Tank Size	Tank Material	Peak HP	Vacuum Air Flow	Power Cord Length	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
DataVac Pro	Disposable Bag	0.33 qt	Steel	¾	65 cfm	12 ft	Metrovac	MDV-1ESD	**45RK33**
HEPA Filtration									
GM80	Disposable Bag	3.25 gal	Aluminum	1 ½	80 cfm	30 ft	Nilfisk	01790132	**4RXY7**
DataVac ESD	Disposable Bag	0.75 qt	Steel	1 ¾	100 cfm	12 ft	Metrovac	DV-3ESD1	**2TUX8**
High-Capacity	Bagless	7 gal	Plastic		99 cfm	12 ft	Atrix	HCVAC7H-ESD	**2FTK2**
Filters, Bags and Accessories									
5 Replacement Bags and 2 Toner Filters for 45RK33 and 2TUX8							Metrovac	TBF-7	**2TUY5**
HEPA Sleeve Filter for 4RXY7							Nilfisk	11730410	**4RYG6**
HEPA Cartridge Filter for 4RXY7							Nilfisk	01727631	**4RYF4**
HEPA Cartridge Filter for 2FTK2							Atrix	421-000-007	**2FTK3**
ULPA Filter Dry Vac Tool Kit for 4RXY7							Nilfisk	M70041	**4RYA2**
10-Ft. ESD Stretch Hose for 2FTK2							Atrix	31671	**2FTK4**
Hose Connector/Extender for 2FTK2							Atrix	SCHENG600	**2FTK5**

4NFP9

Cleanroom Vacuums

Nilfisk

- Dry pickup

Disposable bag vacuums provide multiple stages of filtration for collecting fine dust and powders in cleanrooms, labs, and other controlled environments. They remove contaminants and other airborne particles to meet specific cleanroom standards. Capture the largest particles during the first stage of filtration and capture finer particles during the following stages. Their final filtration stage traps ultra-fine particles and prevents them from recirculating.

4NFP9 has an extra-large filter, plus a thermal protection device to keep motor from overheating. Hose provides ESD protection. **4RXY8** and **4RXY9** are compact and wheels make them easy to maneuver. **4RXY8** can safely collect and contain potent compounds for disposal.

Description	Tank Size	Tank Material	Peak HP	Vacuum Air Flow	Power Cord Length	Mfr. Model	Item No.
Vacuums							
ULPA Filtration							
GM80 CR	3.25 gal	Aluminum	1 ½	80 cfm	30 ft	01790150	**4NFP9**
IVT 1000CR Safe-Pak	1.72 gal	Stainless Steel	1 ½	72 cfm	30 ft	01798180	**4RXY8**
IVT 1000CR	3.25 gal	Stainless Steel	1 ½	76 cfm	30 ft	01798070	**4RXY9**

Description	For Hose Diameter	Mfr. Model	Item No.
Filters and Kits			
HEPA Sleeve Filter for 4NFP9	—	11730410	**4RYG6**
ULPA Cartridge Filter for 4NFP9, 4RXY8, 4RXY9	—	01737631	**4RYF9**
Vac Kit for 4NFP9—Includes (2) Stainless Steel Wands, (5) Paper Bags, 10 ft Conductive Hose, Crevice Nozzle, Detachable Trolley, Dust Brush, Floor Nozzle, Tool Caddie, Utility Nozzle	1 ¼ in	M70038	**4RXZ8**
Vac Kit for 4RXY8 and 4RXY9—Includes (2) Wands, Cap Plug, Crevice Nozzle, Dust Brush, Floor Nozzle, Hose Cuff, Stainless Steel Curved Tube	1 ¼ in	01760480	**4RYA3**

54ZH12

Explosion-Proof Vacuums

Nilfisk

These bagless vacuums are made of nonsparking materials to help prevent the ignition of combustible dust. They allow cleaning in areas where dry goods and other potential ignition sources are stored or processed. They're commonly used around products such as flour, starch, animal feed, light metals, coal, plastics, and textiles. All-in-one design safely collects and renders inert Group E metal dusts including aluminum, magnesium, and other commercial alloys.

Vacuum Pickup Type	Tank Size	Tank Material	Peak HP	Vacuum Air Flow	Power Cord Length	Mfr. Model	Item No.
HEPA Filtration							
Dry	9.8 gal	Stainless Steel	1 ½	103 cfm	30 ft	55100268	**54ZH12**
Wet	9.8 gal	Stainless Steel	1 ½	103 cfm	30 ft	55100270	**54ZH11**

For vacuum bags, accessories and replacement parts, go to page 1574 and Grainger.com®

Electric Drum-Top Corded Vacuum Heads

Drum-top vacuum heads have an electric motor for connecting to an electric power source. They generate strong suction to draw wet or dry materials into an attached 55-gallon drum (5ERH2 sold separately on page 1135).

Vacuum Pickup Type	Vacuum Hose Dia.	Vacuum Air Flow	Peak HP	Static Pressure	Brand	Mfr. Model	Item No.
Standard Filtration							
Wet/Dry	1 ⅞ in	88 cfm	3 hp	84 in	Dayton	61HV93	**61HV93**
Wet/Dry	2 in	243 cfm	2 ¼ hp	100 in	Tornado	98698	**35PG51**
Wet	1 ½ in	114 cfm	6 ½ hp	120 in	Dustless Technologies	H0901	**48GP71**

61HV93

Pneumatic Drum-Top Vacuum Heads

Vacuum heads operate on a compressed-air supply, so they have no electric motor to burn out and no moving parts to wear out. They're commonly used in wet environments where an electric-powered vacuum could be hazardous. They generate strong suction to draw wet or dry materials into an attached 55-gallon drum. Designed for flood control, sludge pickup, and cleaning of sumps and coolant tanks.

Note: All air vacuums come with a 3/16" jet installed. 7/32" and 1/4" jets are also supplied.

3PXN9

Vacuum Pickup Type	For Drum Capacity	Vacuum Hose Dia.	Vacuum Air Flow	Air Inlet	Static Pressure	Includes	Brand	Mfr. Model	Item No.
Vacuum Heads									
Standard Filtration									
Wet/Dry	55 gal	2 in	238 cfm	¾ in FNPT	200 in	(4) Liquid Shutoffs, (4) Venturi Powerheads, Deflector, Jumbo Cover, Quad Head Line Connector, Tool Kit, Vacuum Hose, Wand	Tornado	98695	**32EY93**
Wet/Dry	55 gal	2 in	160 cfm	¾ in FNPT	239 in	(2) Venturi Powerheads, Deflector, Dual Head Line Connector, Jumbo Cover, Tool Kit, Vacuum Hose, Wand	Tornado	98696	**32EY94**
Wet/Dry	55 gal	1 ½ in	89 cfm	½ in FNPT	185 in	55 gal Vacuum Generating Head	Guardair	N551B	**3PXN9**
Wet/Dry	30 gal	2 in	89 cfm	½ in FNPT	185 in	30 gal Vacuum Generating Head	Guardair	N301B	**3PXN5**
Wet	55 gal	2 in	160 cfm	¾ in FNPT	242 in	(2) Liquid Shut-Offs, (2) Venturi Powerheads, Deflector, Dual Head Line Connector, Jumbo Cover, Tool Kit, Vacuum Hose, Wand	Tornado	98694	**35PG49**
HEPA Filtration									
Wet/Dry	30 gal	2 in	89 cfm	½ in FNPT	185 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs	Guardair	N301BK	**3PXN6**
Wet/Dry	55 gal	2 in	163 cfm	¾ in FNPT	163 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs, Standard Cartridge Filter	Guardair	N552BK	**3PXN7**
Wet/Dry	55 gal	2 in	89 cfm	½ in FNPT	185 in	(1) 2 in x 20 ft Standard Duty Vinyl Vacuum Hose, (1) 24 in Metal Crevice Tool, (1) 4 ft Aluminum Wand with 12 in Wide Floor Tool, (3) Retaining Springs	Guardair	N551BK	**3PXN8**
Vacuum Head Drum									
Vacuum Drum, Steel for 55-Gal. Vacuum Heads							Tornado	95944	**35PG55**

Bagged, Corded Handheld Vacuums

- Dry pickup

Vacuums trap dirt, dust, and allergens in replaceable bags that are discarded when full. They keep debris contained for disposal to help prevent recirculation of dust and allergens.

4LB41

5NJJ7

Description	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Power Cord Length	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Commercial Vacuum	64 cfm	5 lb	86 dB	¼ gal	30 ft	Tool Caddy, Tool Adaptor Tube, Crevice Tool, Fabric Tool, Dusting Brush, Multipurpose Floor and Wall Tool, Blower Adaptor, Adjustable Extension Wand	Oreck	BB900-DGR	**4LB41**
Vac N Go	70 cfm	2.7 lb	80 dB	¼ gal	12 ft	Pik-All Nozzle, (2) Disposable Bags, Dust Brush, Crevice Tool	Metrovac	VM4B500	**5NJJ7**
Vac N Blo 500	70 cfm	3 lb	80 dB	¼ gal	12 ft	Extension Wand, Flexible Hose, Pik-All Nozzle, Dust Brush, Crevice Tool, Inflator Adaptor, Shoulder Strap, (6) Disposable Paper Bag	Metrovac	VM12500	**2TUX7**
PortaPOWER Vacuum	79 cfm	8.5 lb	66 dB	½ gal	33 ½ ft	Triple Stretch Hose, (2) Chrome Steel Extension Wands, Shoulder Strap, Cord Storage Strap, Rug And Floor Tool, Wall Floor Brush, Furniture Tool, Dusting Brush, Crevice Tool	Hoover	CH30000	**6ENE3**
Vac N Blo	100 cfm	9 lb	80 dB	¼ gal	1 ft	3 ft Flexible Hose, (2) 20 in Extension Wands, Pik-All Nozzle, Air Pin Pointer, Crevice Tool, Inflator/Adaptor, Powerizer Air Maximizer, Shoulder Strap	Metrovac	VNB-72B	**2TUX6**
Vac N Blo	130 cfm	9 lb	80 dB	¼ gal	1 ft		Metrovac	VNB-73B	**2TUX5**
Accessory									
Vacuum Carrying Bag for 6ENE3						Adjustable Shoulder Strap, Padded Adjustable Waist Strap	Hoover	CH01005	**6ENE4**

Bagged, Cordless Handheld Vacuum

Vacuum operates without the limitations of a power cord to trap dirt, dust, and allergens in replaceable bags that are discarded when full. The bags keep debris contained for disposal to help prevent recirculation of dust and allergens.

Description	Vacuum Filtration Type	Vacuum Pickup Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Mfr. Model	Item No.
Vacuum									
Handheld Vacuum	HEPA	Wet/Dry	51 cfm	10 lb	Not Rated	2 ½ gal	No	GAS18V-3N	**462R86**
Required Accessories									
Batteries, Pkg. of 2								BAT612-2PK	**19TR97**
Battery Charger								BC660	**30RW48**

462R86

Bagless, Cordless Handheld Vacuums

Vacuums operate without power cord restrictions to collect dust and debris from small cleaning jobs in their dirt cup for disposal. The dirt cup can be cleared out when full to prevent reduced suction or an overheated motor and also allows small items to be recovered from the collected debris. These bagless vacuums eliminate the need for replacement bags and rely on filters to trap dust and allergens and keep debris from entering the motor.

462R85

49EM75

Vacuum Pickup Type	Vacuum Air Flow	Weight	Sound Level	Vacuum Capacity	Includes Battery	Includes	Brand	Mfr. Model	Item No.
Vacuums									
Standard Filtration									
Dry	21 cfm	3 lb	Not Rated	¼ gal	No	(2) Extension Tubes, Crevice Nozzle, Floor Nozzle	Bosch	GAS18V-02N	**462R85**
Dry	33 cfm	2.25 lb	Not Rated	¼ gal	No	(1) Crevice Tool, (1) Extension Wand, (1) Filter Cartridge, (1) Utility Nozzle	Milwaukee	0850-20	**32NN01**
HEPA Filtration									
Wet/Dry	39 cfm	3.8 lb	84dBA	½ gal	Yes	Washable Filter, Heavy Duty Rubber Hose, (1) HEPA Filter	DeWalt	DCV517B/DCB203	**58JL80**
Wet/Dry	39 cfm	4 lb	84dBA	½ gal	No	—	DeWalt	DCV517B	**49EM75**
Wet/Dry	39 cfm	4 lb	84dBA	½ gal	Yes	(1) DCB115 Charger, (1) DCB204 Battery	DeWalt	DCV517M1	**49EM76**
Dry	74 cfm	16 lb	72dBA	2 gal	No	Carrying Strap, Grouting Nozzle, HEPA Filter, Hose, Nylon Web Filter Bag, Suction Nozzle	Metabo	AS 18 L PC HEPA bare	**483U92**

Find our complete selection of vacuum bags on Grainger.com

61HW13 3ZJH6 3UP64 38EW27

Vacuum Bags

Collect vacuumed dust and debris for disposal and help filter out allergens and dust particles to prevent them from recirculating in the air. New or empty bags help prevent clogs, suction loss, and motor burnout. Disposable bags are discarded when full and replaced with a new bag to minimize contact with collected dirt. Reusable bags are shaken out when full and used again to reduce waste.

Fits Vacuum Brand	Fits Vacuum Models	Brand	Item No.	Pkg. Qty.
Shop Vacuum Bags				
Standard Filtration				
Dayton	61HV81, 61HV82, 61HV83, 61HV88, 61HV90		**61HW11**	2
Dayton	61HV81, 61HV82, 61HV83, 61HV88, 61HV90		**61HW13**	2
Dayton	61HV84, 61HV85, 61HV86, 61HV87, 61HV89, 61HV91, 61HV92	Dayton	**61HW14**	2
Dayton	48UH44		**48UH45**	3
Dayton	2NYE3, 2NYE4		**5X878**	1
Dayton	4YE65, 4YE66		**3UP64**	5
Dayton	2NYE2, 2RPD8		**3UP67**	5
Nobles	55EX73	Tennant	**55EX79**	10
HEPA Filtration				
Nilfisk	Eliminator	Tough Guy	**48ZD76**	3
Tornado	94200, 97080, 98670	Tornado	**24UM05**	12

Fits Vacuum Brand	Fits Vacuum Models	Brand	Item No.	Pkg. Qty.
Upright Vacuum Bags				
Standard Filtration				
Bissell, Oreck	8000, 9000, BGU8000, XL2000		**3ZJL2**	25
Bissell, Hoover, Powr-Flite, Royal, Rubbermaid, Tornado	DayClean, PF62E. CK LW 13/1, ProBag, Type B, UL12		**10G171**	10
Eureka, Sanitaire	F&G		**3ZJK3**	10
Sanitaire	SC600, SC800		**3ZJL5**	1
Bissell, Oreck	8000, 9000, BGU8000, XL2000		**3ZJL9**	25
Bissell, Electrolux, PerfectVac, ProTeam, Pullman Holt, Sanitaire	1500, 1500XP, 15XP, BG1000, DM101, ProCare 15, ProForce 1200XP, ProLux, SC6600, SP6610, Type U, UV-10, UV-3, UV-5		**6JEN8**	10
Bissell, Hoover, Powr-Flite, Royal, Rubbermaid, Tornado	DayClean, PF62E. CK LW 13/1, ProBag, Type B, UL13		**10G172**	10
Advance, Clarke, Triple S	115, 12H, 12P, 12S, 15D, 15P, 15S, 18D, 212, 215, 218, CarpetMaster 112, GU, Prosense 12D/15D, Spectrum 12D		**6GAN7**	10
Sanitaire	SC600, SC800		**3ZJL4**	1
Sanitaire	SC600, SC800		**3ZJL6**	1
Carpet Pro, CleanMax, Fuller, Tennant, Tornado	CK 14/1. CK 14/2, CPU-1/T, CPU-2/T, CPU5T, CPU85/T, FB890, FB895, FBPWD, FBTM, Pro, V-SMU-14		**11C828**	10
Eureka, Powr-Flite, Sanitaire	5800-5893, Force models SC5713B, LiteSpeed models 5700-5739, PF82HF, SC815D		**3ZJK9**	5
Eureka, Sanitaire	S782, SC785		**3ZJL1**	3
Sanitaire, Triple S	Duralux SC9120, ProSense X2, SC9150, SC9180, SC9180B	Tough Guy	**3ZJL7**	5
Advance, Kent, Nilfisk	Advac, CarpeTwin 14/18, DuraVac 152B		**3ZJJ2**	10
Hoover, Pacific Floorcare	MyVac, Type A		**3ZJJ7**	3
Hoover, Pacific Floorcare, Royal	CR50005, Scholar, Type Y		**3ZJJ8**	3
Minuteman	370202		**3ZJK6**	10
Nobles, Tennant	3220, Lite Trac, V-DHU-14/36, Viper, Whirlwind		**3ZJH9**	10
Nobles, Tennant	3110, 3120, Ultra Glide V-DMU-15, V-DMU-38		**5KRE5**	10
Oreck	XL Pro14		**3ZJN1**	10
Royal	Type Y		**10G174**	10
Hoover	15, CH54013, CH54015, CH54115, Hushtone 13, Models CH54113, Type CU2		**52VN95**	10
Karcher, NSS, Tornado	CV30/1, CV38/1, CV48/2, Pacer		**3ZJJ5**	10
Mastercraft, Panasonic	QC 1415, Type U, U-12, U-3, U-6		**3ZJJ6**	3
NSS	Marshall 14/18		**3ZJJ4**	10
Sanitaire	800, Model 600, SC675A, SC688A, SC888K, SC889A, Style ST		**3ZJL8**	5
Karcher, NSS, Tornado	CV30/1, CV38/1, CV48/2, Pacer		**20TM81**	10
Karcher, Tornado, Triple S, Windsor	CW100, CW50, Prosense II, Versamatic		**3ZJH8**	10
Karcher, Kenmore, Sanitaire, Sebo, Triple S, Windsor	50015, Allstar Javelin, Automatic X, CVU, EON, Essential G, ProChem PV12, ProSense, SC5000, SC5500, Sensor, Sensor 2, Sensor XP, U-Vac UPV12, Versamatic		**3ZJH6**	10
HEPA Filtration				
Hoover	Type Y		**11C831**	3
Oreck	101H, OR-44	Tough Guy	**5RAF2**	10
Hoover	Type A		**11C829**	3
Hoover	Type Y		**11C830**	3
Royal	Type Y		**10G173**	10

Fits Vacuum Brand	Fits Vacuum Models	Brand	Item No.	Pkg. Qty.
Backpack Vacuum Bags				
Standard Filtration				
Hoover	BP		**11C832**	10
Advance, Bissell, Clarke, Euroclean, Hoover, IPC Eagle, Karcher, Mastercraft, Minuteman, Mosquito, Nilfisk, Oreck, Perfect Vac, ProTeam, Sandia, Sanitaire, Triple S, Windsor	Adgility, BackVac10, BGPRO10A, BP10, BPV10, BV 11/1, CoachVac, ComfortPak 10, Enviromaster Probe 10, GD 10, Ground Command 10, MegaVac, PB1001, Raven 10, SC530, SC535, Super CoachVac, SuperVac 10, Tailwind 1000H, VP10, XLPRO10		**3ZJH7**	10
CleanMax, Karcher, Koblenz, Powr-Flite, Sanitaire, Tennant, Tornado	BP1400, CMBP-6, PF300PB, PV-6, SC412, V-BP-6		**20TM82**	10
Bissell, Dustbane, Hawk Enterprises, IPC Eagle, Mastercraft, Mosquito, Nobles, NSS, Oreck, ProTeam, Sandia	Alpine Vac, AviationVac, Bandit, BGHIP6A, BGPRO6A, BP6, Enviromaster Probe 6, Fast Track BackVac, Harrier I, HipVac, Outlaw, ProVac, QuarterVac, QuietPro BP, Raven 6, Super QuarterVac, SuperVac 6, TailVac, TrailBlazer, TrailBlazer Lite, XLPRO6	Tough Guy	**3ZJJ3**	10
ProTeam	SuperCoach Pro 6		**20TM84**	10
ProTeam	SuperCoach Pro 10		**20TM83**	10
ProTeam	ProClean, ProVac CN, QuietPro CN, RunningVac, Sequoia		**6JEN9**	10
ProTeam, Rubbermaid	9VBP06, LineVacer		**48ZD77**	10
ProTeam	ProVac FS 6, Super Coach Pro 6	Proteam	**35XE92**	10
Nobles, Tennant	Aspen 10, Aspen 6, Aspen 6B, V-BP-10, V-BP-6, V-BP-6B	Nobles	**21ML41**	12
ProTeam	103024, 105733, 106542, 107103, 107108, 107113, 107118, 107145, 107146, 107155, 107605, 107606, 107607, 107609		**2RKX4**	10
ProTeam	100277, 100280, 105869, 105892, 107104, 107109, 107114, 107119, 107137, 107138, 107141, 107161, 107345, 107471, 107602, 107603, 107604	Proteam	**2RKX8**	10
ProTeam	107303, 107304, 107305, 107306, 107338, 107339, 107340, 107341, 107342, 107465, 107468, 107536, 107537, 107538		**38EW27**	10
HEPA Filtration				
Atrix	BP50-G, VACBP36V-GR and VACBP36V	Atrix	**21AD05**	10
Canister Vacuum Bags				
Standard Filtration				
Dayton	20X606, 20X607, 20X608, 20X609	Dayton	**20X612**	10
Eureka	Mighty Mite 3670 - 3690, Type MM		**3ZJK1**	10
Euroclean, Nilfisk	UZ932, UZ934		**3ZJK5**	10
Clarke, Euroclean, Nilfisk	UZ964 HipVac		**3ZJK2**	10
CleanMax, Euroclean, Nilfisk, Pacific Floorcare, Pullman Holt	380ASB, CMDC-12, DP9000, GD930, GD950, TopVac, UZ930, Z970, Z990	Tough Guy	**48ZD78**	10
Oreck	1000, 280, 850, 870, 900, BB180, Housekeeper, MV160		**48ZD79**	12
Nilfisk	GA70, GM80, GM90, GS80, GS90		**49AJ55**	5
Tornado	TASKFORCE External Filter Air Vac	Tornado	**1N147**	1
Critical Area Vacuum Bags				
Standard Filtration				
Minuteman	C80106-01, C80704-01, C80704-03, C80704-05, C82907-00, C82985-06, C87506-02, Minuteman Models C82906-01		**10E085**	10
Minuteman	C80115-01, C80215-01, C80355-04, C80355-05, C81015-01, C81415-01, C81455-01, C81455-03, C81455-05, C82015-01, C82915-06, C82917-00, C83015-01, C83905-01, C83905-03, C83905-16, C83905-55, C87155-01, C87255-01, C87515-05, C87515-06, C87555-01, Minuteman Models C82915-05	Tough Guy	**10E086**	12
Minuteman	C80115-01, C80215-01, C81015-01, C82015-01, C82917-00, C83015-01, C83905-01, C83905-03, C83905-05, C87515-05, C87515-06, Minuteman Models C82915-05		**10E087**	10
Minuteman	C80106-01, C80704-01, C80704-03, C80704-05, C82904-07, C82907-00, C82985-06, C86006-11, C87506-02, Minuteman 384003PKG for Models C82904-04		**10E088**	10
Drum-Top Vacuum Head Bags				
Standard Filtration				
Tornado	DE Jumbo, Dual Jumbo Vacuum, SE Jumbo, Single Air Jumbo Vacuum	Tornado	**1N148**	1
Tornado	Quad Jumbo Vacuum		**1N151**	1
Handheld Vacuum Bags				
Standard Filtration				
Dayton	4Z906	Dayton	**6H020**	3
Metrovac	VM12500	Metrovac	**2TUY4**	5
Metrovac	ES-105, ES-105T, ES-109T		**55HE54**	5

For the complete list of vacuum accessories and replacement parts, go to Grainger.com®

Upright Vacuum Belts

Belts for upright vacuums fit specific upright-vacuum brands or models. They're used to replace broken or worn belts that no longer turn the vacuum's brush roller.

55JE84

4LB39

Fits Vacuum Brand	Fits Vacuum Models	Brand	Item No.	Pkg. Qty.
Bissell	BG100, BG101, BG101H, BG102, BG102H	Bissell Commercial	**36RE91**	1
Hoover	UH70805	Hoover	**55JE84**	2
Nobles, Tennant	V-WA-30	Tennant	**15A762**	1
Oreck	U2000RHB, U2000RSB, XL2100RHS	Oreck	**4LB39**	3
Sanitaire	SC684F, SC688A, SC886E, SC887B, SC888K, SC889A, SC889F, SC899F	Sanitaire	**23YU38**	1

Vacuum Cleaner Attachments

Attachments connect to a vacuum to adapt it to different cleaning tasks. They're used for applications such as removing dust from crevices, picking up dry bulk materials, vacuuming upholstery, and cleaning elevated surfaces.

5JJE9

5UMR2

2NYE6

21AD15

5UMR4

Description	For Hose Dia.	Fits Vacuum Models	Brand	Item No.
Metal				
Floor Tools and Nozzles	1 ½ in	N301BCNED, N552BCNED	Guardair	**5JJE9**
	1 ½ in	MV2000	Guardair	**3PXR7**
Squeegee	1 ½ in	497ABF, 497AJM	Dayton	**5UMR2**
Extension Wands, Pkg. of 2	1 ½ in	2NYE5, 6X879, 6X887	Dayton	**3W160**
Plastic				
Dust Brush	1 ½ in	1UG82, 22XJ59, 36RE60, 38EW25, 45PC90, 48ME61	Dayton	**2NYE6**
Vacuum Accessory	1 ⅞ in	1UG82, 22XJ59, 36RE60, 38EW25, 45PC90, 48ME61	Dayton	**61HW16**
Round Brush	1 ½ in	1UG82, 22XJ59, 36RE60, 38EW25, 45PC90, 48ME61	Shop-Vac	**784J02**
Floor Tools and Nozzles	1 ¼ in	Atrix	Atrix	**21AD15**
Vacuum Accessory	1 ¼ in	1UG82, 22XJ59	Dayton	**61HW19**
	1 ⅞ in	1UG82, 22XJ59, 45PC90	Dayton	**61HW18**
Crevice Tool	1 ½ in	1UG82, 22XJ59, 45PC90	Shop-Vac	**784J03**
Furniture Nozzle	1 ¼ in	Ergo Series	Atrix	**21AD10**
Pick Up Tool	1 ½ in	5X872	Dayton	**5UMR4**

55EX11

34AY98

783GA5

Vacuum Cleaner Accessory Kits

Kits include multiple attachments or tools that connect to a vacuum to suit different cleaning tasks. They're used for jobs such as vacuuming upholstery, stairs, crevices, or delicate surfaces.

For Vacuum Type	For Hose Dia.	Fits Vacuum Models	Includes	Brand	Item No.
Canister Vacuum Dry Floor Tool Kit					
Shop Vacuum	1 ¼ in	All Vacuums with 1 ¼ in Hose Diameter	Brush, Crevice	Tennant	**55EX67**
Filter/Bag Kit					
Upright Vacuum	—	C1810, C1810010, C1810020	Dirt Cup Kit	Hoover	**3XDR7**
High Dusting Kit					
Backpack Vacuum	1 ½ in	107118, 107119, 107146, 107152, 107303, 107310, 107497, 107504	125° Bend Wand, 14 in Pro Blade Hard Floor Tool, 3-Parts Straight Friction Fit Wands, 45° Bend Wand, Mesh Bag, Straight Friction Fit Wand with Hose Connection Ridge, Wand Adapter	Proteam	**55EX11**
Micro Tool Kit					
Canister Vacuum	1 ¼ in	GM 80	15mm Round Dust Brush, 24 in Braided Hose, 30mm Oval Dust Brush, Bleed Valve, Coupling Valve, Crevice Nozzle, Straight Wand and Angled Wand	Nilfisk	**34AY98**
Shop Vacuum Accessory Kits					
Shop Vacuum	1 ¼ in	All Vacuums with 1 ¼ in Hose Diameter	(2) 1 ¼ in Plastic Extension Wands, Crevice Tool, Deluxe 12 in Master Nozzle with Brush & Squeegee Inserts, Dusting Brush, Utility Nozzle	Dayton	**783GA4**
Shop Vacuum	1 ⅞ in	All Vacuums with 1 ⅞ in Hose Diameter	1 ⅞ in Crevice Tool, 1 ⅞ in Round Brush, 12 ft x 1 ⅞ in Locking Hose, Claw Nozzle	Dayton	**783GA6**
Shop Vacuum	2 in	S2, S3	(2) Adaptors, (3) Extension Wands, Dust Brush, Floor Nozzle, Uphostery Brush	Nilfisk	**22N478**
Shop Vacuum	2 ½ in	All Vacuums with 2 ½ in Hose Diameter	(2) 20 in Plastic Extension Tubes, 14 in Floor Nozzle, 6 ft x 2.5 in Hose, Crevice tool, Dusting Brush	Dayton	**783GA5**
Shop Vacuum Dry Floor Tool Kit					
Shop Vacuum	1 ¼ in	All Vacuums with 1 ¼ in Hose Diameter	Brush, Crevice	Tennant	**55EX57**
Vacuum Accessory Kit					
Shop Vacuum	1 ⅜ in	VAC090	(5) 9 gal Fleece Filter Bags, Carrying Case, Dust Collection Attachment, HEPA Filter	Bosch	**499K47**
Vacuum Attachment Kits					
Shop Vacuum	1 1⁄16 in, 1 ⅜ in	Turbo I, Turbo I Set, Turbo II, Turbo II HEPA, Turbo II HEPA Set, Turbo II Set, Turbo II X AC Hepa, Turbo X, Turbo X AC	(2) Metal Extension Tubes, Combination Tool with Interchangeable Inserts, Crevice Nozzle, Dusting Brush, Elbow	Fein	**31LZ18**
Critical Area Vacuum	1 ½ in	118 EXP DRY	Crevice Nozzle, Dust Brush, Floor Brush, Wand	Nilfisk	**4RXZ3**

For the complete list of vacuum accessories and replacement parts, go to Grainger.com®

784HW8

20X614

21AD06

45ZX30

Vacuum Filters

- Reusable

Trap dust and allergens to keep them from recirculating in the air or entering the vacuum's motor. Filters are usually found near the vacuum's exhaust port to catch fine particles that haven't been collected in the vacuum bag or dirt cup. These filters are used for regularly replacing old filters to maintain suction and avoid motor burnout, and to change out clogged or damaged filters. Filters typically fit specific vacuum cleaner brands or models.

Fits Vacuum Brand	For Vacuum Type	Fits Vacuum Models	Filtration Type	Filter Pickup Type	Filter Material	Brand	Item No.	Pkg. Qty.
Cartridge Filters								
Shop-Vac	Shop Vacuum	12Z214, 1UG91, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 22XJ46, 22XJ47, 22XJ48, 22XJ49, 22XJ50, 22XJ51, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ62, 22XJ63, 22XJ64, 2NYE2, 2RPD8, 3UP73, 3UP74, 3UP77, 3UP78, 3VE18, 3VE19, 3VE20, 3VE21, 3VE22, 3VE23, 45UZ574TB77, 4TB78, 4TB79, 4TB80, 4TB81, 4TB82, 4TB83, 4TB84, 4TB85, 4TB86, 4TB87, 4TB90, 4TR11, 4TR12, 4TR19, 4UAC7, 4YE58, 4YE59, 4YE61, 4YE62, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 6AKY0, 6AKY1, 6AKY2, 6AKY3, 6AKY4, 6AKY9, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	Standard	Wet/Dry	Paper	Shop-Vac	**784HW8**	1
	Shop Vacuum	12Z214, 13J021, 1UG91, 1VHF8, 1VHF9, 1VHG1, 1VHG2, 1VHG4, 1VHG5, 1VHG6, 1VHG7, 1VHG8, 20X605, 20X606, 20X607, 20X608, 20X609, 22XJ46, 22XJ47, 22XJ48, 22XJ49, 22XJ50, 22XJ51, 22XJ53, 22XJ54, 22XJ55, 22XJ56, 22XJ57, 22XJ58, 22XJ59, 22XJ60, 22XJ62, 22XJ63, 22XJ64, 22XJ65, 2NYE2, 2RPD8, 3UP73, 3UP74, 3UP77, 3UP78, 3VE18, 3VE19, 3VE20, 3VE21, 3VE22, 3VE23, 45UZ574TB77, 4TB78, 4TB79, 4TB80, 4TB81, 4TB82, 4TB83, 4TB84, 4TB85, 4TB86, 4TB87, 4TB89, 4TB90, 4TR11, 4TR12, 4TR19, 4UAC7, 4YE58, 4YE59, 4YE61, 4YE62, 4YE64, 4YE65, 4YE66, 4YE67, 4YE68, 4YE69, 4YE70, 4YE71, 4YE72, 4YE73, 5UMR0, 6AKY0, 6AKY1, 6AKY2, 6AKY3, 6AKY4, 6AKY9, 6AKZ0, 6AKZ1, 6AKZ2, 6Z095	Standard	Wet/Dry	Paper	Shop-Vac	**784HX2**	1
Dayton	Canister Vacuum, Shop Vacuum	20X605	Standard	Wet/Dry	Paper	Mi-T-M	**55MU65**	1
	Canister Vacuum	20X605	Standard	Dry	Paper	Dayton	**20X610**	1
	Canister Vacuum	20X606, 20X608	Standard	Dry	Paper	Dayton	**20X613**	1
	Canister Vacuum	20X607, 20X609	HEPA	Dry	Paper	Dayton	**20X614**	1
Cassette Filter								
Atrix	Backpack Vacuum	BP50-G, VACBP36V	HEPA	Dry	Cloth	Atrix	**21AD06**	1
Sleeve Filter								
Dustless	Shop Vacuum	Mfr. No. 16003, Mfr. No. 16005, Mfr. No. D1603, Mfr. No. D1605	Standard	Wet/Dry	Cloth	Dustless Technologies	**59NL04**	2
	Shop Vacuum	16006, 16008, D1606	HEPA	Wet/Dry	Cloth	Dustless Technologies	**45ZX30**	1

784HZ5

783GA3

21AD08

Vacuum Hoses

- Plastic

Hoses attach to a vacuum cleaner's intake port to draw in dirt and debris. They connect with compatible attachments to extend their length or adapt to specialized jobs, such as cleaning crevices and upholstery. These vacuum cleaner hoses are used as replacements for hoses that are worn, damaged, or no longer maintain suction.

Description	Hose Dia.	Hose L	Color	Fits Vacuum Models	Brand	Item No.
Standard Vacuum Hoses	1 ¼ in	8 ft	Black	1244302, 1244322	Tennant	**55EX70**
	1 ⅜ in	16 ft	Black	VC4710	Makita	**45DL28**
	1 ½ in	9 ft	Black	5UMR0	Dayton	**5UMR9**
	2 in	20 ft	Gray	N301BC, N301BCNED, N301BK, N551BC, N551BCNED, N551BK, N552BC, N552BCNED, N552BK	Guardair	**3PXP8**
	2 ½ in	8 ft	Black	1VHF8, 1VHF9, 22XJ53, 3UP78, 3VE22, 4TB87, 6AKY2	Shop-Vac	**784HZ5**
Crush-Resistant Vacuum Hoses	1 ½ in	12 ft	Black		Shop-Vac	**784HZ9**
	1 ⅞ in	18 ft	Black	For All Shop Vacs with a 1 ⅞ in Hose Diameter	Dayton	**783GA1**
	1 ⅞ in	25 ft	Black		Dayton	**783GA2**
	1 ⅞ in	25 ft	Black; Red		Dayton	**783GA3**
Stretchable Vacuum Hose	1 ¼ in	6 ft	Black	Ergo Series	Atrix	**21AD08**

45DL37

40K399

40K393

32FX06

783GC1

3PXR6

8A695

55EX90

Shop Vacuum Replacement Parts & Accessories

Replacement parts and accessories replace broken or worn mechanical and electrical components in commercial and industrial vacuum cleaners. They're used for completing repairs or performing regular maintenance of vacuums. For the full assortment of vacuum replacement parts, go to Grainger.com.

Decription	Fits Vacuum Models	Brand	Item No.
Quick-Connect Adapter	XCV04Z, XCV06Z, XCV07ZX	Makita	**45DL37**
Permanent Adapter	DCV585B, DCV585T2, DWV012, DWV9000	DeWalt	**40K399**
Connector	DCV585B, DCV585T2, DWV012	DeWalt	**40K393**
Extension Tubes	1-S2N1	Nilfisk	**32FX06**
Cartridge Filter Retainer Clip	2W435, 45UZ58, 4TB93, 61HV96, 61HV98, 61HW01	Dayton	**783GC1**
Exhaust Silencer Foam	552BCXNED, N301B, N301BC, N301BK, N301DC, N551BC, N552BC, N552BCNED, N552BK	Guardair	**3PXR6**
Variable Speed Control for Dry HEPA Vacuum	Nilfisk Dry Vacuum	Nilfisk	**8A695**
Power Cord	55EX73	Tennant	**55EX90**

Tornado®

Carpet Extractors

STRIVE SERIES WITH READYSPACE

ReadySpace technology allows carpets to dry and be ready for foot traffic in 30 min. or less. Rollers and deep cleaning brushes can perform interim and restorative carpet cleaning.

SELF-CONTAINED EXTRACTORS

EX-SC-1020—Extractors have a drop-down hose for easy emptying, a solenoid valve that helps prevent drips, and simple controls for ease of use.

Speed EX Compact—Electric extractor features lift-off solution and recovery tanks for easy cleaning and filling. Noncorrosive aluminum scrub head and rotomolded tanks for durability. Handle is adjustable for ease of use and folds down for storage.

Falcon 2800 Plus—Self-propelled extractor has a 75-ft. power cord and electronic speed control for greater efficiency. Rear-mounted pivoting head provides greater solution recovery for faster drying time. Includes a prespray wand for cleaning heavily soiled areas.

Falcon Ultra Battery—Self-propelled front-mounted head allows for easy maneuvering around corners and narrow aisles. Six spray heads with 100 psi for enhanced solution dispersal and better cleaning performance. Runs up to 4 hr. on a single charge.

PORTABLE EXTRACTOR

Marathon 350 Carpet Spotter—Spray extractor cleaner tackles upholstery, staircases, drapes, and other challenging cleaning applications. Perfect for handling small carpeted areas. Highly mobile unit can be transported from room to room rapidly. Weighs only 22 lb.

4VDT7

4VDT8

4VDU3

4VDU6

21YG47

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Vacuum Motor	Brand	Mfr. Model	Item No.
Strive with ReadySpace								
Strive Rider	28 in	250 psi	32 gal	28 gal	(2) 3-Stage, 0.6 hp	Nobles	MV-STRVR-0002	**4VDT7**
Strive Walk Behind	22 in	100 psi	21 gal	21 gal	(2) 3-Stage, 0.6 hp	Nobles	MV-STRV-0001	**4VDT8**
Strive Compact	15 in	65 psi	5 gal	5 gal	2-Stage, 1.2 hp	Nobles	9004202-H	**4VDU5**
Self-Contained Extractors								
EX-SC-1020	20 in	100 psi	10 gal	14.5 gal	3-Stage, 1.8 hp	Tennant	9007486	**4VDU3**
Speed EX Compact	15 in	65 psi	5 gal	5 gal	2-Stage, 1.2 hp	Nobles	9004201-H	**4VDU6**
Falcon 2800 Plus	22 in	100 psi	28 gal	18 gal	3-Stage, 2 hp	Nobles	608352	**4VDU1**
Falcon Ultra Battery	22 in	100 psi	17 gal	17 gal	2-Stage, 1 hp	Nobles	608351	**4VDT9**
Portable Extractor								
Marathon 350	9 ½ in	58 psi	1.5 gal	1.5 gal	1 hp	Tornado	98132	**21YG47**

Description	For Use With	Brand	Item No.
Accessory			
15 ft Extraction Hose	4VDU3, 4VDU1 and 4VDT9	Tennant	**4VMA4**

Carpet Cleaners for Extraction Machines

Extraction machines use low-foam cleaners for high-pressure upholstery and carpet cleaning. Combined with these specialized cleaners, extraction machines suction dirt and stains from carpet and fabric fibers in residential homes, retail, schools, healthcare, and offices.

36TT61

2WEC3

10F959

5NTZ7

Container Type	Container Size	pH Value	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Carpet Cleaners for Extraction Machines							
Bottle	52 oz	Neutral	Floral	Bissel Oxy	Bissell	**36TT62**	1
Bottle	52 oz	Alkaline	Floral	Bissel Advanced	Bissell	**36TT61**	1
Jug	1 gal	Neutral	Honeysuckle	Scotchgard	3M	**3U166**	1
Jug	1 gal	Neutral	Fresh	Tough Guy	Tough Guy	**2WEC3**	1
Jug	1 gal	Neutral	Unscented	Clean Building	Simple Green	**2GVN8**	2
Jug	1 gal	Neutral	Unscented	—	Odoban	**36P402**	4
Jug	1 gal	Alkaline	Floral	—	Diversey	**10F959**	1
Jug	1 gal	Alkaline	Floral	BigGreen Complete	Bissell	**36TT60**	1
Jug	1 gal	Alkaline	Fresh	—	Krud Kutter	**19MP83**	1
Bucket	5 gal	Alkaline	Pleasant	Zep Carpet 86	Zep	**54ZN42**	1
Drum	55 gal	Neutral	Lemongrass	Zep Extract-it Plus	Zep	**451C71**	1
Carpet Extraction Rinse							
Jug	1 gal	Neutral	Fruity	—	Diversey	**5NTZ7**	1

Defoamer for Carpet Extraction Recovery Tanks

Ready-to-use liquid defoamer is used in the recovery tank of hot water extraction machines to keep dirty water and cleaning solutions from foaming. These concentrated antifoam liquids control excessive foam in hoses, tools, and recovery tanks to protect carpet extractor motors from damage including clogging, corrosion, or electrical shorts.

450Z88

36P137

Container Type	Container Size	pH Value	Fragrance	Product Series	Brand	Item No.	Pkg. Qty.
Jug	1 gal	Neutral	Unscented	Zep Carpet Antifoam	Zep	**450Z88**	4
Jug	1 gal	Neutral	Unscented	—	Rustlick	**38G268**	1
Jug	1 gal	Neutral	Characteristic	Misty EDF-3	Misty	**36P137**	4
Drum	55 gal	Neutral	Unscented	Zep Carpet Antifoam	Zep	**54ZN40**	1

Sanitaire

RESTORE Portable Carpet Extractor

This extractor with a 2-stage motor provides high-performance cleaning power and helps remove stains. Cleans large areas with metal wand and floor tool for stain removal.

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Cord L	Item No.
Big Wheel Extractor	12 in	100 psi	10 gal	10 gal	50 ft	**30RR58**

Restroom Cleaner

By Tennant Company

- Select operating pressure: 45/300 psi
- 25-ft. power cord

Cleans and rinses hard surfaces, blow dries them, then recovers the dirty water without operator touching any contaminated surfaces. Rotationally molded construction with large wheels. Includes floor wand, pressure gun, scrub brush, floor and hand squeegee, blower, and gulper tool.

Description	Solution Tank Cap.	Vacuum Tank Cap.	Item No.
ASC-15 All-Surface Cleaning Machine	15 gal	19 gal	**4VDV8**

21YG50

Tornado®

Floor Scrubbers

- 1.5 HP motor
- 50-ft. power cord

Single speed. Rolled steel construction. Cam-lever provides variable height adjustment, quick-grip pad holders come standard. Include pad driver.

Machine Size	Power Source	Brush Speed	Sound Level	Item No.
20 in	115V AC @ 60 Hz	175 RPM	66 dB	**21YG51**
17 in	115V AC @ 60 Hz	175 RPM	69 dB	**21YG50**

36RE52

Bissell® BigGreen Commercial®

Walk-Behind Carpet Extractor

Extractor machine includes 2 motors and is for commercial deep cleaning. Designed to clean forward and backward. Flow indicator monitors water and solution levels and lets you know when it's time to refill the tank. Large clean water tank removes for easy filling. Powerful edge-to-edge suction. 36RE93 is a commercial 10-ft. long hose with 5½" wide upholstery tool.

Description	Cleaning Path	Pump Pressure	Solution Tank Cap.	Recovery Tank Cap.	Cord L	Item No.
Walk Behind Carpet Extractor	10 ½ in	26 psi	1.75 gal	1.75 gal	25 ft	**36RE52**
Vacuum Hose						**36RE93**

TENNANT

i-mop XL Plus Walk-Behind Floor Scrubber

Simple to operate scrubber is ideal for working in tight spaces and underneath obstacles with intuitive controls and extreme maneuverability. Features a powerful motor and twin 350 RPM counter-rotating brushes. Scrubber is light enough to carry easily and features a foldable, disc-style scrub deck and transport wheels. A floating ball in the filtration element pops up and engages to close the recovery tank when it is full. Estimated run time on Lithium-Ion battery: (80% charge with one hour charge time) up to 60 mins. Estimated coverage/productivity: Up to 19,375 sq ft.

Cleaning Path	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Includes	Item No.
18 in	0.33 hp	1 gal	1.5 gal	Charger, Left Battery, Right Battery	**60HM01**

6UFR4

Floor Machines

Dayton®

All-metal construction and an all-steel, triple planetary gear box provides durability. Safety lockout switch ensures machine is only used by a trained operator. Include pad driver.

Machine Size	Motor	Power Source	Brush Speed	Cord L	Item No.
Single-Speed					
17 in	1.5 hp	115V AC @ 15A, 60 Hz	175 RPM	50 ft	**6UFR5**
20 in	1.5 hp		175 RPM	50 ft	**6UFR4**
Dual-Speed					
20 in	1.5 hp	115V AC @ 15A, 60 Hz	185 RPM, 330 RPM	50 ft	**4NEK1**
Polyethylene Solution Tank					
2.5-gal. Tank, For Use With Nos. 6UFR5, 6UFR4, 4NEK1					**6XKJ0**

Description	Item No.
Replacement Pad Drivers	
16 in Pad Driver for No. 6UFR5	**4NEK2**
19" Pad Driver for No. 6UFR4	**4NEK3**

Floor Machines

FLOOR MACHINES

Speedshine multipurpose floor machines clean, strip, and polish hard floors, and clean carpeted floors. Durable, corrosionproof polyethylene construction. Feature twist-grip operation with safety lock. Include pad driver.

Single-Speed—60 dBA. Quiet operation in sound-sensitive areas.

Dual-Speed—71 dBA. Switches from 185 rpm low-speed scrubber to a 330 rpm floor polisher for additional versatility.

PAD DRIVERS AND ROTARY BRUSHES

Brushes won't tear or lose their shape on any surface: new, old, or uneven.

1MEJ6 Scrub Brush—An economical choice for general scrubbing.

4VDX7

4VLZ9

Machine Size	Motor	Power Source	Brush Speed	Cord L	Brand	Item No.
Floor Machine, Single-Speed						
20 in	1.5 hp	115V AC @ 15A, 60 Hz	175 RPM	50 ft	Tennant	**4VDX7**
Floor Machine, Dual-Speed						
20 in	1.5 hp	120V AC @ 12A, 60 Hz	0.5606 RPM	50 ft	Tennant	**4VDX8**

Includes/ For Use With	Brand	Item No.
Solution Tank		
4-gal. Tank Includes Solution Hoses and Connection Fittings, For Use With 4VDX7 and 4VDX8	Tennant	**4VLZ9**
Replacement 20 in Pad Drivers		
No. 4VDX7, Single-Speed	Nobles	**4VLZ7**
No. 4VDX8, Dual-Speed	Nobles	**4VLZ8**
20 in Scrub Brushes		
No. 4VDX7, Single-Speed	Tough Guy	**1MEJ6** *
Nos. 4VDX7 and 4VDX8, Single- and Dual-Speed	Tennant	**12H295**
20 in Grit Brush		
No. 4VDX7, Single-Speed	Tough Guy	**1MEJ7** *

***** *Do not use brushes in 300 rpm mode.***

Tornado®

Self-Propelled High-Speed Burnisher

- 1.5 HP motor
- 50-ft. power cord

Metal contsruction. Includes pad holder.

Machine Size	Power Source	Brush Speed	Item No.
20 in	120V AC, 60 Hz, 15A	1,600 RPM	**21YG52**

31YA62

49H330

Battery-Operated Floor Burnishers

Provide 15- to 40-lb. of pad pressure and floating suction head for excellent pad-to-floor contact. Deliver propane-like gloss in an ultraquiet, ergonomic, and easy-to-use machine. Built-in dust control system captures 0.3 micron particles for improved air quality. Low-profile design for cleaning under shelves and fixtures. Feature onboard user graphics and troubleshooting guide. Burnish small and large areas quickly and efficiently. Cover up to 21,000 sq. ft./hr. with 2.5 hr. run time on a single charge.

Motor	Power Source	Brush Speed	Pad Size	Item No.
Active Dust Control with HEPA Filtration at 99.97% and At 0.3 Micron				
2.8 hp	(3) 12V 185A	2,100 RPM	20 in	**31YA62**
2.8 hp	(3) 12V 225A	2,100 RPM	20 in	**31YA63**
3.6 hp	(6) 6V 240A	1,875 RPM	24 in	**31YA64**
3.6 hp	(6) 6V 330A	1,875 RPM	27 in	**31YA65**
Active Dust Control with HEPA Filtration				
4 hp	(6) 6V 435A Lead Acid Batteries	1,500 RPM	24 in	**49H331**
4 hp	(6) 6V 435A Lead Acid Batteries	1,500 RPM	27 in	**49H333**
Passive Dust Control				
4 hp	(6) 6V 435A Lead Acid Batteries	1,500 RPM	24 in	**49H330**
4 hp	(6) 6V 435A Lead Acid Batteries	1,500 RPM	27 in	**49H332**

Dayton®

High-Speed Burnishers

- 50-ft. power cord

HIGH-SPEED BURNISHER

High-speed, all-metal burnisher has large transport wheels for easy maneuverability. Safety lockout switch ensures machine free-floating head is only used by a trained operator. Includes pad driver.

DUST-CONTROL BURNISHER

High-speed burnisher provides a high gloss finish while controlling dust. Includes folding handle, handle-mounted release, safety lockout switch, and pad driver.

4NEK5

Description	Motor	Power Source	Brush Speed	Pad Size	Item No.
Burnishers					
High-Speed Burnisher	1.5 hp	115V AC, 60 Hz, 13.5A	1,500 rpm	20 in	**4NEK5**
Dust Control Burnisher	1.5 hp	120V AC, 60 Hz, 14A	2,000 rpm	20 in	**14X834**
Collection Bags for 14X834					
1L Cap. Bags, Pkg. of 5					**14X835**

High-Speed Burnishers

- 75-ft. power cord

BR-1600-NDC—Free-floating pad driver provides a high shine on uneven floors. Constructed of noncorrosive rotationally-molded plastic. Can operate off a 15 amp circuit and can cover over 10,000 sq. ft./hr.

BR-2000-DC—Smooth operation with extremely low vibration reduces operator fatigue. Free-floating head produces even results on uneven floors with a 2000 rpm motor for excellent gloss. Flexible dust skirt and dust control system captures 0.3 micron particles. Folding handle for easy storage and transport. Covers 15,000 sq. ft./hr.

4VDX5

Description	Motor	Power Source	Brush Speed	Pad Size	Item No.
BR-1600-NDC	1.5 hp	115V AC,	1,600 rpm	20 in	**4VDX5**
BR-2000-DC	1.5 hp	60 Hz, 15A	2,000 rpm	20 in	**4VDX4**

Scan. Order. Done.
Details on page A1.

45NY63

Walk-Behind Floor Sweepers

- Adjustable main and side brooms
- Easy-to-empty hopper

Battery-Powered Sweepers—Compact machines easily clean most indoor and outdoor surfaces in a single pass. **60KL32** offers a quiet, 61 dBA sound level to allow sweeping anytime, even in noise-sensitive environments. Dual-brush system is 99.5% efficient for particles up to 2 microns. Runs on a maintenance-free, rechargeable 12V battery. Includes brushes, battery, and onboard charger. **45NY63** utilizes 3 brushes. The two front brushes rotate in opposite directions grabbing the debris directly in front of the sweeper while the brush roller on the bottom picks up all the fine particles. Includes brushes and battery.

Push Sweeper—Lightweight, durable sweeper is easy to maneuver for cleaning dirt, dust, and litter from hard surfaces such as asphalt, wood, or cement. Rotary side brooms sweep debris into the path of the main broom, which feeds the large hopper. Dent- and rust-resistant construction stands up to rough use. Includes lubricant spray.

Description	Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Brand	Item No.
Battery-Powered Sweepers	26 in	12V	1.25 cu ft	—	18,000 sq ft/hr	Nobles	**60KL32**
	31 in	12V	13.2 gal	16"	37,000 sq ft/hr	Bissell Commercial	**45NY63**
Manual Push Sweeper	31 in	12V	13.2 gal	16"	31,000 sq ft/hr	Bissell Commercial	**45NY61**

4VDW7

Industrial Walk-Behind Floor Sweeper

Cleans hard floor surfaces up to 40,000 sq. ft. per hr. Up to 3 hr. run time. Hopper can hold up to 150 lb. Mechanical filter shaker and filter panel capture dust down to 3 microns. Includes 155A battery, charger, main and side broom.

Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Item No.
Floor Sweeper					
34 in	24V	2.8 cu ft	15"	40,800 sq ft/hr	**4VDW7**

Description	Item No.
Replacement Parts	
Side-Mounted Main Broom	**4VMC3**
Top-Mounted Side Brush	**4VMC4**

4VDW8

Compact Rider Floor Sweeper

Unit cleans carpeted or hard floor surfaces up to 56,000 sq. ft. per hr. 30" cleaning path allows unit to clean in tight spaces. Hopper can hold up to 200 lb. Automatic filter shaker and patented VCS filter panel capture dust down to 3 microns. Includes 220A battery, charger, main and side broom. Sweeper is 59.9"L x 31.75"W x 46.38"H.

Cleaning Path	Power Source	Hopper Cap.	Side Broom Size	Max. Productivity	Item No.
Floor Sweeper					
30 in	36V	3 cu ft	16"	56,000 sq ft/hr	**4VDW8**

Description	Item No.
Replacement Parts	
Side-Mounted Main Broom	**4VMC1**
Top-Mounted Side Brush	**4VMC2**

Walk-Behind Wide-Area Floor Sweeper

Large-capacity cordless machine has the power and portability you need to sweep large areas, indoors or out. Effective on most surfaces, from carpeting to concrete. Quiet, 70 dBA operation and excellent dust control lets you sweep anytime, even in noise- and dust-sensitive environments. Runs on a maintenance-free, rechargeable 12V battery. Clean up to 3 hours with one charge, has an onboard charger for charging anywhere. 99.5% efficient for particles up to 5 microns. Includes brushes, battery, and onboard charger.

Cleaning Path	Power Source	Hopper Cap.	Max. Productivity	Item No.
28 in	12V	1.6 cu ft	27,000 sq ft/hr	**60KL33**

Wide-Area Carpet Vacuum

Low-profile vacuum features 1800 rpm brush speed and has a 1.6-bushel capacity. Offers an adjustable handle for maneuverability and a fold-down design for easy storage. Four-stage HEPA filtration provides 99% filtration efficiency at 0.3 microns. 70 dBA. Includes HEPA filter, 75-ft. power cord, cloth bag, and 2 disposable bags.

Cleaning Path	Power Source	HP	Amps	Item No.
30 in	12V	1 HP	12.6	**15A757**

Walk-Behind Floor Scrubbers and Brushes

Cover up to 34,964 sq. ft. with an estimated run time of 6.9 hr. Easy-to-understand controls feature a variable-speed control bail, propel toggle, speed setting, and charger. Corrosion-resistant, disc-style scrub deck. Rustproof polyethylene body and tanks. Deliver up to 200 lb. of scrubbing pressure. Sound level: 69.2 dBA.

488Z22 with ec-H20 NanoClean technology converts water to a detergent-free solution to clean oils and other tough soils with no need to buy, mix, or store hazardous cleaning chemicals.

Cleaning Path	Power Source	Vacuum Motor	Brush Speed	Solution Tank Cap.	Recovery Tank Cap.	Includes	Item No.
Walk-Behind Floor Scrubbers—Disc-Style Deck							
28 in	(6) 6V 240 Ah Batteries	0.75 hp	300 RPM	32 gal	37 gal	(2) 14 in Polypropylene Scrubbing Brushes, 240 AH Batteries, High Traction Tires, Linatex Squeegee Assembly, On-Board Charger, Operator Manual, Pro-Membrane Control Panel, PVC Pinch Drain Hose with Drain Cap	488Z23
32 in	(6) 6V 360 Ah Batteries	0.75 hp	300 RPM	32 gal	37 gal	(2) 16 in Polypropylene Scrubbing Brushes, 360AH Batteries, ec-h2o NanoClean, High Traction Tires, Linatex Squeegee Assembly, On-Board Charger, Operator Manual, Polyurethane Drain Hose with Control Valve, Pro-Membrane Control Panel, Severe Environment Switch, Smart-Fill Auto Battery Watering	488Z21
32 in	(6) 6V 240 Ah Batteries	0.75 hp	300 RPM	32 gal	37 gal	(2) 16 in Polypropylene Scrubbing Brushes, 240 AH Batteries, High Traction Tires, Linatex Squeegee Assembly, On-Board Charger, Operator Manual, Polyurethane Drain Hose with Control Valve, Pro-Membrane Control Panel	488Z22
32 in	(6) 6V 240 Ah Batteries	0.75 hp	200 RPM	32 gal	37 gal	(2) 14 in Polypropylene Scrubbing Brushes, 240 AH Batteries, Membrane Control Panel, On-Board Charger, Operator Manual, Polyurethane High Traction Tires, PVC Pinch Drain Hose with Drain Cap, UL Type E Rating	488Z24

488Z23

Description	For Use With	Item No.
Replacement Parts and Accessories		
Rotary Brushes	488Z21, 488Z22 and 488Z24	488Z64
	488Z21, 488Z22 and 488Z24	488Z65
	488Z21, 488Z22 and 488Z24	488Z66
	488Z21, 488Z22 and 488Z24	488Z67
Pad Driver	488Z21, 488Z22 and 488Z24	488Z68
Front Squeegee Blade	488Z21 and 488Z22	54TP48
Rear Squeegee Blade	488Z21 and 488Z22	54TP49
Vacuum Float Shutoff Ball	488Z21, 488Z22, 488Z23 and 488Z24	488Z72
Vacuum Cleaner Inline Filter	488Z21, 488Z22, 488Z23 and 488Z24	488Z73

49H339

Industrial Rider Floor Scrubbers and Brushes

Clean up to 38,280 sq. ft. per hour. Feature a shock-absorbing frame and a durable polyethylene exterior. Rotomolded tanks are suitable for daily commercial or industrial use. A large front wheel and 3-pt. wheel design for maneuverability in tight spaces.

Cylindrical Deck, 49H340—Delivers up to 200 lb. of scrubbing pressure.

Disc-Style Deck, 49H339—Delivers up to 250 lb. of scrubbing pressure.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	CYLINDRICAL DECK Item No.	DISC-STYLE DECK Item No.
Industrial Rider Floor Scrubbers						
32 in	240 Ah Battery	0.85 hp	35 gal	44 gal	49H340	49H339

Description	Item No.
Replacement Brushes and Pad Drivers	
Brushes	
Cylindrical Poly Scrub	49H341
Cylindrical HD Poly Scrub	49H342
Cylindrical Abrasive Scrub	49H343
Disk HD Poly Scrub	49H344
Disk Abrasive Bristle Scrub	49H345
Pad Driver	
13 in Pad Driver For 26 in Machine	4VLX7
Pad Drivers	
16 in Pad for 32" Machine	4VMA8

Description	Size	Item No.
Chemicals		
Cleaner, Purple Color	2.5 gal	6ENZ8
Neutral Solvent Degreaser, Yellow Color	2.5 gal	6ENZ9

4VDL6

Micro Rider Floor Scrubbers and Brushes

Cover over 75,000 sq. ft. on a single charge; over 4½-hr. continuous run time. Clean a variety of surfaces and up to a 4° incline. Have easy-to-use, 1-button control. Indicator lights warn when solution tank is empty and recovery tank is full. Disc-style deck machines deliver up to 160 lb. of scrubbing pressure and operate at 67 dB.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	DISC-STYLE DECK Item No.
Micro Floor Scrubbers					
26 in	235 Ah Battery	0.6 hp	29 gal	29 gal	4VDL6
32 in	235 Ah Battery	0.6 hp	29 gal	29 gal	4VDL8

Description	For Use With	Item No.
Replacement Brushes and Pad Drivers		
Poly Brushes	4VDL6	4VLX8
	4VDL8	4VLY2
13 in Pad Driver For 26 in Machine	4VDL6	4VLX7
16 in Pad Driver For 32 in Machine	4VDL8	4VLY1

53TX65

53TX59

NOBLES

Mid-Size Walk-Behind Floor Scrubbers and Brushes

Large drive wheels and tight wheel base coupled with a parabolic squeegee provides maneuverability and easy water pick up on turns. Constructed with noncorroding scrub deck and roto-molded tanks; built for commercial and light industrial use. Ideal for noise-sensitive environments. Feature 1-button, quick-train controls and no-tool squeegee change for easy operator training. Cleans up to 20,000 sq. ft. per hr. Console is height adjustable and the onboard charger allows the unit to be easily stored.

Cylindrical Deck—Operates at 68 dB.

Disc-Style Deck—Operates at 67 dB.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Item No.
Mid-Size Floor Scrubbers					
Cylindrical-Style Deck					
28 in	(4) 6V 225 Ah Batteries	0.46 hp	22.5 gal	27 gal	**53TX65**
28 in	(4) 6V 225 Ah Batteries	0.46 hp	22.5 gal	27 gal	**53TX66**
Disc-Style Deck					
26 in	(4) 6V 225 Ah Batteries	0.46 hp	22.5 gal	27 gal	**53TX59**
28 in	(4) 6V 225 Ah Batteries	0.46 hp	22.5 gal	27 gal	**53TX61**
32 in	(4) 6V 225 Ah Batteries	0.46 hp	22.5 gal	27 gal	**53TX63**

Description	For Use With	Item No.
Replacement Brushes		
Poly Brushes	53TX63	**54TP44**
	53TX59	**4VLY3**

39DK97

39DL06

NOBLES

Compact Walk-Behind Floor Scrubbers and Brushes

Onboard charger allows scrubber to charge at any 120V outlet. Large drive wheels and tight wheel base coupled with parabolic squeegee increases maneuverability and allows for easy water pickup on turns. Provide 90 lb. of brush scrubbing pressure with a whisper quiet 68.5 dBA design.

Cleaning Path	Power Source	Brush Motor	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Item No.
Compact Floor Scrubbers						
Disc-Style Deck						
17 in	105 Ah Battery	1 hp	0.5 hp	11 gal	14 gal	**39DK97**
20 in	105 Ah Battery	1 hp	0.5 hp	11 gal	14 gal	**39DK99**
20 in	130 Ah Battery	1 hp	0.5 hp	11 gal	14 gal	**39DL02**
Orbital-Style Deck						
20 in	155 Ah Battery	0.6 hp	0.5 hp	11 gal	14 gal	**39DL06**

Description	For Use With	Item No.
Replacement Brushes and Pad Drivers		
Poly Brushes	39DK97	**4VLZ3**
	39DK99	**4VLZ5**
Pad Drivers	39DK97	**45NY84**
	39DK99	**45NY90**
	39DL02	**45NY94**

40PM20

Dayton

Walk-Behind Floor Scrubbers and Brushes

Feature parabolic squeegee and shroud-protected scrub deck. All include traction drive battery, except 40PM20 which is corded. 40PM20 offers up to 66 lb. of brush scrubbing pressure, 460U42 offers up to 51 lb. 56NU88 and 56NU89 provide up to 108 lb. of brush scrubbing pressure.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Item No.
Floor Scrubbers					
Disc-Style Deck					
17 in	120V AC, 60 Hz	0.6 hp	13 gal	11 gal	**40PM20**
20 in	105 Ah Battery	0.46 hp	16 gal	16 gal	**460U42**
26 in	6V 242 Ah Battery	0.63 hp	22 gal	24 gal	**56NU88**
Orbital-Style Deck					
28 in	(2) 6V 175 Ah Batteries	0.63 hp	22 gal	24 gal	**56NU89**

Machine Size	Brushes Req.	Item No.
Replacement Poly Brushes		
20 in	1	**4NEL7**
26 in	2	**4NEN2**
28 in	2	**14X833**

4VDR3

Dayton NOBLES

Compact 15" Floor Scrubbers

Dual squeegees allow forward cleaning. Adjustable handle, all-in-one trigger operation, and simple controls for operator comfort. Battery-operated models eliminate cord hazards and constraints with quiet 68 dBA design. Ideal for grouted tile floors, kitchens, locker rooms, hotel, and hospitals.

Cleaning Path	Power Source	Vacuum Motor	Solution Tank Cap.	Recovery Tank Cap.	Item No.
AGM Battery-Operated (Includes Charger), Dayton					
15 in	(2) 33Ah Battery	0.5 hp	3.5 gal	3.5 gal	**20HW28**
AGM Battery-Operated (Includes Charger), Nobles					
15 in	50 Ah Battery	0.5 hp	2.5 gal	3.4 gal	**10D945**
Electric (Includes 50-ft. Power Cord), Nobles					
15 in	120V AC, 60 Hz	1.2 hp	3 gal	4.5 gal	**4VDR3**
Li-Ion Battery-Operated, Nobles					
15 in	Lithium Ion Battery	0.5 hp	2.5 gal	3.4 gal	**10D946**

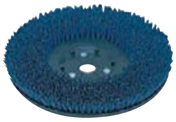
1MEE7

1MEP2

1MER1

1MEC9

1MEC8



1MER7

1MEE5

1MEK8

Replacement Floor Scrubber Rotary Brushes

1MEH6 Clutch Plate sold below. More sizes and styles available on Grainger.com.

POLY GENERAL SCRUBBING BRUSH
Polypropylene 0.028" bristles for general scrubbing of most floor types.

NYLON GENERAL SCRUBBING BRUSH
Nylon 0.028" bristles for general scrubbing of most floor types.

LIGHT SCRUBBING BRUSHES
Nylon 0.018" fibers with 500-grit silicon carbide for light-to-medium scrubbing of vinyl, sealed concrete, terrazzo, slate, and marble floors.

MEDIUM SCRUBBING BRUSHES
Nylon 0.022" fibers with 320-grit silicon carbide for medium to mildly aggressive scrubbing of resilient floors, nonslip flooring, terrazzo, quarry tile, and concrete. Asymmetrical bristles for effective cleaning on uneven surfaces.

STRIPPING BRUSHES
Nylon 0.050" fibers with 80-grit silicon carbide for aggressive scrubbing of concrete and stripping of resilient floors, terrazzo, and tile. Constructed with bristles of different lengths that work well on uneven surfaces.

HEAVY-DUTY STRIPPING BRUSHES
Nylon 0.060" fibers with 46-grit silicon carbide for aggressive scrubbing of concrete surfaces and aggressive stripping of resilient floors. Irregular bristle length assures cleaning on uneven surf aces.

CARPET CLEANING BRUSHES
Polyester bristles scrub carpet while glide plate supports the weight of the machine.

SANDING DISCS
For aggressive and effective sanding of wood floors.

CLUTCH PLATE
For brushes and pad drivers with 5" dia. center holes. Cast of durable zinc alloy.

Machine Size	Block Size	POLY GENERAL SCRUBBING Item No.	NYLON GENERAL SCRUBBING Item No.	LIGHT SCRUBBING Item No.	MEDIUM SCRUBBING Item No.
13 in	11 in	—	1MEP2	—	1MEF3
15 in	13 in	—	1MEP3	1MER1	1MEF7
16 in	14 in	—	—	1MER2	1MEG2
17 in	15 in	1MEE7	1MEP5	—	1MEC9
18 in	16 in	—	1MEP6	—	—
19 in	17 in	—	1MEP7	—	—
20 in	18 in	1MEE6	1MEP8	—	—

Machine Size	Block Size	STRIPPING BRUSHES Item No.	HEAVY-DUTY STRIPPING Item No.	CARPET CLEANING Item No.
13 in	11 in	1MEF4	1MER7	—
15 in	13 in	1MEF8	1MER8	—
16 in	14 in	1MEG3	1MER9	—
17 in	15 in	1MEE1	1MET1	1MEE5
18 in	16 in	1MEG8	1MET2	—
19 in	17 in	1MEH3	1MET3	—
20 in	18 in	1MEC8	1MET4	1MEE4

Machine Size	Block Size	SANDING DISCS Item No.
16 in, 17 in	15 in	1MEK8
17 in, 18 in	16 in	1MEK9
18 in, 19 in	17 in	1MEL1
19 in, 20 in	19 in	1MEL2

Description	Item No.
Clutch Plate	1MEH6

Dayton

Indoor/Outdoor Vacuum

Quickly and easily cleans small-to-medium areas, collecting litter, dirt, and debris from any hard surface area or low-nap commercial carpeting. Heavy-duty nylon impeller mulches as it cleans. 19"W nozzle with 1½" intake has 2 height settings and an easy-access on/off switch. 8-gal. filter/collector bag has a zipper for easy emptying. Built-in kickstand. Single-stage motor. Double insulated. 120V, 60 Hz.

Cleaning Path	Amps	Vacuum Cap.	Power Cord L	Net Wt.	Item No.
19 in	6	8 gal	1 ½ ft	19 lb.	6H003

3M

Carpet Bonnets

Extend carpet life and enhance appearance when used for interim carpet maintenance. Absorbent fiber bonnets feature a series of hooks and loops to help absorb, clean, and dry carpet. Double edge stitching extends bonnet life.

4VZ90

Color	Machine Size	Floor Pad Size	Brand	Item No.
Blue	17 in or 18 in	15 in	Tough Guy	1MEE8
Blue	19 in or 20 in	17 in	Tough Guy	1MEE9
White	—	18 in	3M	4VZ90
White	—	19 in	3M	4VZ91

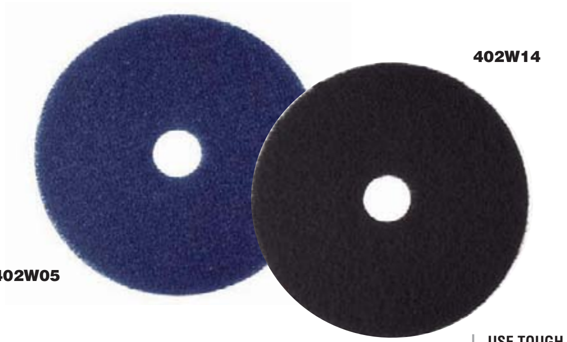
Scotch-Brite™

Floor Surface Preparation Pads

1EKC3

Use with rotary or automatic floor machines. These environmentally preferable floor pads require only a neutral cleaner or water, reducing the use of chemicals. Nonwoven mineral floor pad construction enables pad to remove floor finish from a variety of hard floor surfaces, including vinyl tile, marble, terrazzo, concrete, and wood floors. Compatible with water-based or solvent-based finishes.

Color	Center Hole	Size	Speed	Mfr. Model	Item No.	Pkg. Qty.
Maroon	3 ¾ in	13 in	175 to 350 rpm	SPP13	4LGR1	10
	3 ¾ in	16 in	175 to 350 rpm	SPP16	1EKC4	10
	3 ¾ in	17 in	175 to 350 rpm	SPP17	4LGR2	10
	3 ¾ in	20 in	175 to 350 rpm	SPP20	1EKC5	10
	3 ¾ in	15 in	175 to 350 rpm	SPP15	1EKC3	10



402W14

402W05

Stripping Pads

Use for long-lasting stripping of finish, dirt and buildup. High-performance pads are ideal for heavy-duty stripping of finish, dirt and buildup. 175 to 600 rpm.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Stripping Pads				
Black	11 in	5	402V96	—
	13 in	5	402V97	—
	15 in	5	402V98	—
	16 in	5	402V99	—
	17 in	5	402W01	1MEG4
	18 in	5	402W02	1MEG5
	19 in	5	402W03	1MEG9
	20 in	5	402W04	1MEH4
Blue	11 in	5	402W05	—
	12 in	5	402W06	—
High-Performance Stripping Pads				
Black	11 in	5	402W14	—
	13 in	5	402W15	—
	17 in	5	402W16	1MEG4
	18 in	5	402W17	1MEG5
	19 in	5	402W18	1MEG9
	20 in	5	402W19	1MEH4

** 3.25"-dia. center hole.*

402W07

402W21

402W25

Scrubbing Pads

Use pads prior to recoating to remove dirt, spills, and scuffs and leave a prepared clean surface. Blue pads are heavy-duty and green pads are extra heavy-duty for more difficult jobs.

Color	Size	Speed	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Blue	13 in	175 to 600 rpm	5	402W07	—
	14 in	175 to 600 rpm	5	402W08	—
	15 in	175 to 600 rpm	5	402W09	—
	16 in	175 to 600 rpm	5	402W10	—
	17 in	175 to 600 rpm	5	402W11	1MEG4
	19 in	175 to 600 rpm	5	402W12	1MEG9
	20 in	175 to 600 rpm	5	402W13	1MEH4
Green	11 in	175 to 600 rpm	5	402W26	—
	12 in	175 to 600 rpm	5	402W27	—
	13 in	175 to 600 rpm	5	402W21	—
	14 in	175 to 600 rpm	5	402W22	—
	14 in x 20 in	3000 rpm	10	402W25	—
	15 in	175 to 600 rpm	5	402W28	—
	16 in	175 to 600 rpm	5	402W29	—
	17 in	175 to 600 rpm	5	402W23	1MEG4
	19 in	175 to 600 rpm	5	402W30	1MEG9
	20 in	175 to 600 rpm	5	402W24	1MEH4
	23 in	175 to 600 rpm	5	402W31	—
	24 in	175 to 600 rpm	5	402W32	—

** 3.25"-dia. center hole.*

Apply strips to floor machine pads. (Shown with Red Round Pad)

401M67

401M66

3M Trizact Diamond TZ Abrasive Polishing Pads

Provide a smooth, refined surface by consistently and rapidly smoothing and leveling stone floor surfaces. Easily buff, burnish, and polish and are ideal for jobs requiring a fine finish. Gold pads are the most abrasive and are ideal for areas where there is visible damage and wear. Red pads are medium abrasive and blue pads are fine abrasive.

Color	Size	Pad/Brush Shape	Speed	Item No.	Case Qty.
Gold	3 ¾ in x 9 in	Rectangular	3000 rpm	401M67	6
	5 in	Trapezoid	150 to 400 rpm	401M64	4
Red	3 ¾ in x 9 in	Rectangular	3000 rpm	401M68	6
	5 in	Trapezoid	150 to 400 rpm	401M65	4
Blue	3 ¾ in x 9 in	Rectangular	3000 rpm	401M69	6
	5 in	Trapezoid	150 to 400 rpm	401M66	4

401M71

4LGR3

Scotch-Brite™

Purple Diamond Floor Pads

Diamond-coated floor pads for cleaning and polishing marble, terrazzo, slate, and polished concrete flooring.

Size	Pad/Brush Shape	Speed	For Use With	Item No.	Case Qty.
14 in x 20 in	Rectangular	175 to 600 rpm	Rotary or Automatic Floor Machines	401M71	5
13 in	Round	175 to 350 rpm or 1500 to 3000 rpm	Automatic Floor Scrubbers or Electric, Battery or Propane Burnishers	4LGR3	5
17 in	Round	175 to 350 rpm or 1500 to 3000 rpm		4NYU7	5
20 in	Round	175 to 350 rpm or 1500 to 3000 rpm		4NYU8	5
27 in	Round	175 to 600 rpm	Rotary or Automatic Floor Machines	19T378	5

402V91

402W33

Burnishing Pads

1500 to 3000 rpm.

Aqua—Use for daily high-frequency burnishing programs. Specifically designed for soft finishes and produces less powdering and higher gloss levels.

Tan—Specifically formulated pad for dry burnishing and designed for mark removal on harder finishes or in high-traffic areas. Produce brilliant "wet-look" gloss. For low to moderate burnishing programs.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Aqua	13 in	5	402W33	—
	15 in	5	402W34	—
	17 in	5	402V78	1MEG4
	19 in	5	402V79	1MEG9
	20 in	5	402V80	1MEH4
	21 in	5	402V81	—
	24 in	5	402V82	—
	27 in	5	402V83	—
Tan	13 in	5	402W41	—
	15 in	5	402W42	—
	17 in	5	402V89	1MEG4
	18 in	5	402W43	1MEG5
	19 in	5	402V90	1MEG9
	20 in	5	402V91	1MEH4
	21 in	5	402V92	—
	24 in	5	402V93	—
	27 in	5	402V94	—

*** 3.25"-dia. center hole.***

402W53

402V84

Natural Hair Burnishing Pads

Polyester fiber contains minimum of 50% post-consumer recycled content. 1500 to 3000 rpm.

Beige—Higher content hog's hair and synthetic fiber pad. Designed for scratch removal on hard finishes and low frequency burnishing programs.

White—Natural hair and synthetic fiber pad provides excellent results on a wide variety of floor finishes and traffic conditions.

Color	Size	FLOOR PADS Case Qty.	FLOOR PADS Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Beige	17 in	5	402W20	1MEG4
	19 in	5	402V84	1MEG9
	20 in	5	402V85	1MEH4
	21 in	5	402V86	—
	24 in	5	402V87	—
	27 in	5	402V88	—
White	17 in	5	402W53	1MEG4
	19 in	5	402W54	1MEG9
	20 in	5	402W55	1MEH4
	21 in	5	402W56	—
	27 in	5	402W57	—

*** 3.25"-dia. center hole.***

Buffing/Cleaning Pads

Red—Cleans when damp, buffs when dry. Removes scuff marks while polishing floors to a high gloss.

White—For buffing very soft finishes or for polishing soft waxes on wood floors.

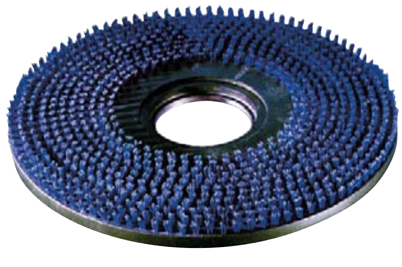
Color	Size	Speed	Case Qty.	Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Red	11 in	175 to 600 rpm	5	402W35	—
	12 in	175 to 600 rpm	5	402W44	—
	13 in	175 to 600 rpm	5	402W36	—
	14 in	175 to 600 rpm	5	402W45	—
	15 in	175 to 600 rpm	5	402W37	—
	16 in	175 to 600 rpm	5	402W46	—
	17 in	175 to 600 rpm	5	402W38	1MEG4
	19 in	175 to 600 rpm	5	402W39	1MEG9
	20 in	175 to 600 rpm	5	402W40	1MEH4
White	11 in	175 to 600 rpm	5	402W47	—
	12 in	175 to 600 rpm	5	402W58	—
	12 in x 18 in	3000 rpm	5	402W59	—
	13 in	175 to 600 rpm	5	402W48	—
	14 in	175 to 600 rpm	5	402W60	—
	15 in	175 to 600 rpm	5	402W49	—
	16 in	175 to 600 rpm	5	402V95	—
	17 in	175 to 600 rpm	5	402W50	1MEG4
	19 in	175 to 600 rpm	5	402W51	1MEG9
	20 in	175 to 600 rpm	5	402W52	1MEH4
	24 in	175 to 600 rpm	5	402W61	—

*** 3.25"-dia. center hole.***

402W35

402W59

402V95



1MEG4

Scan. Order. Done.
Details on page A1.

3U074

3U062

3U093

Stripping, Scrubbing, and Buffing/Cleaning Pads

Environmentally sustainable pads are washable and reusable.

STRIPPING PADS

For rotary and automatic floor machines.

High-Productivity Black 7300

Remove old finish, dirt, and buildup. Increase pad-to-floor contact for more efficient stripping. Use to strip heavy buildup or for quick stripping.

Black 7200

Wet strip floors, maintaining consistent performance throughout the pad life.

Brown 7100

Resilient pads can be used for wet or dry stripping on uneven floors. Quickly and easily cut through old finish to prepare floors for refinishing.

SCRUBBING PADS

Use with rotary and automatic floor machines.

Blue 5300

Remove dirt, spills and scuffs, leaving a clean surface ready for recoating. For heavy-duty scrubbing prior to recoating.

BUFFING/CLEANING PADS

Red 5100

Clean when damp, buff when dry. Use for light scrubbing without dulling the finish. For rotary and automatic floor machines.

White Super Polish 4100

Pad buffs very soft finishes and lower-traffic areas; or use for polishing soft waxes on wood floors. For rotary floor machines.

Description	Size	3M FLOOR PADS Case Qty.	Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Stripping Pads, 175 to 600 RPM				
Black 7300	13"	5	3U064	—
	15"	5	3U065	—
	17"	5	3U066	1MEG4
	19"	5	3U067	1MEG9
	20"	5	3U068	1MEH4
	28" x 14"	10	6ENF5	1MEH4
Black 7200	13"	5	3U069	—
	15"	5	3U071	—
	17"	5	3U072	1MEG4
	19"	5	3U073	1MEG9
	20"	5	3U074	1MEH4
	20" x 14"	10	6ENF7	—
	28" x 14"	10	6ENF8	—
Brown 7100	13"	5	4WD08	—
	15"	5	4WD10	—
	17"	5	4WD12	1MEG4
	19"	5	4WD14	1MEG9
	20"	5	4WD15	1MEH4
Scrubbing Pads, 175 to 600 RPM				
Blue 5300	13"	5	3U058	—
	15"	5	3U060	—
	17"	5	3U061	1MEG4
	19"	5	3U062	1MEG9
	20"	5	3U063	1MEH4
	20" x 14"	10	6ENG0	—
Buffing and Cleaning Pad, 175 to 600 RPM				
Red 5100	13"	5	3U089	—
	15"	5	3U091	—
	17"	5	3U092	1MEG4
	19"	5	3U093	1MEG9
	20"	5	3U094	1MEH4
	20" x 14"	10	6ENG3	1MEH4
	28" x 14"	10	6ENG4	1MEH4
	32" x 14"	10	6ENG5	1MEH4
White 4100	13"	5	3U083	—
	15"	5	3U085	—
	17"	5	3U086	1MEG4
	19"	5	3U087	1MEG9
	20"	5	3U088	1MEH4
Tough Guy Pad Holder				
For Use with Pad Drivers			1MEH9	—

** 5" dia. center hole. 16" and 18" pad drivers available on Grainger.com.*

3U079

32V430

5ND28

Preburnishing and Burnishing Pads

Environmentally sustainable pads are washable and reusable.

PREBURNISHING PADS

TopLine Autoscrubber Green 5000

For light scrubbing of floors before burnishing with minimal finish removal. For rotary or automatic floor machines.

BURNISHING PADS

For ultra high-speed floor machines.

Sky Blue Hi-Performance 3050

Restore gloss to dull floors. Great for frequent burnishing with less dust, point build up, and burning.

Aqua 3100

Produce a brilliant gloss on softer finishes or in lower traffic areas. Exceptional durability.

TopLine Peach 3200

Pads restore gloss to dull floors in a single pass. For use on floors with good base coat. Minimal finish removal.

Natural Blend White 3300

Use natural hair and synthetic fiber pads for outstanding results on a wide variety of finishes and traffic conditions. Provide high gloss while minimizing swirl marks.

Tan 3400

Provide a brilliant "wet-look" finish on harder finishes or high-traffic areas. Best choice for scratch and scuff removal.

Natural Blend Tan 3500

Natural hair and synthetic fiber pads provide excellent results on harder finishes and high-traffic areas. Remove marks and scuffs while polishing.

Eraser Pink 3600

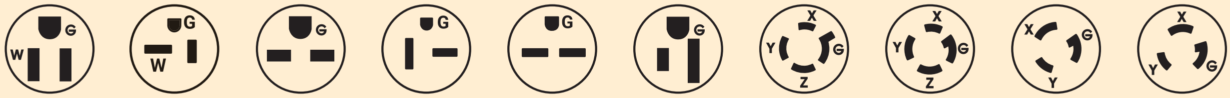
For optimum results on harder finishes and heavy-traffic floors. Remove black marks, restore excellent gloss and image clarity.

Description	Size	3M FLOOR PADS Case Qty.	Item No.	USE TOUGH GUY PAD DRIVER* Item No.
Preburnishing Pads, 175 to 600 RPM				
Green/Amber 5000	13"	5	3U077	—
	15"	5	4WG73	—
	17"	5	3U078	1MEG4
	19"	5	3U079	1MEG9
	20"	5	3U080	1MEH4
Burnishing Pads, 1500+ RPM				
Sky Blue 3050	17"	5	32V430	1MEG4
	19"	5	32V431	1MEG9
	20"	5	32V432	1MEH4
	27"	5	32V433	—
Aqua 3100	17"	5	4WD58	1MEG4
	19"	5	3U081	1MEG9
	20"	5	3U082	1MEH4
	21"	5	4WD59	—
	24"	5	4RU42	—
	27"	5	1CJ71	—
Peach 3200	17"	5	4WG83	1MEG4
	19"	5	3U075	1MEG9
	20"	5	3U076	1MEH4
	21"	5	3UZ71	—
	24"	5	4WG86	—
	27"	5	3UZ90	—
White 3300	17"	5	4WG89	1MEG4
	19"	5	4WG91	1MEG9
	20"	5	4WG92	1MEH4
	21"	5	4WG93	—
	24"	5	4WG95	—
	27"	5	4WJ31	—
Tan 3400	17"	5	4WC29	1MEG4
	19"	5	4WC30	1MEG9
	20"	5	4WC31	1MEH4
	21"	5	4WC32	—
	27"	5	4RU41	—
Tan 3500	17"	5	4WH04	1MEG4
	19"	5	3U095	1MEG9
	20"	5	3U096	1MEH4
	21"	5	4WH06	—
	24"	5	4WH09	—
	27"	5	4WJ27	—
Pink 3600	17"	5	5ND28	1MEG4
	19"	5	5ND29	1MEG9
	20"	5	5ND30	1MEH4
	21"	5	5ND31	—
	24"	5	4RU43	—
	27"	5	5ND32	—
Tough Guy Pad Holder				
For Use with Pad Drivers			1MEH9	—

** 5" dia. center hole. 16" and 18" pad drivers available on Grainger.com.*

NEMA Plug Configurations

Standardized NEMA configurations were created to minimize the possibility of unsafe mating of unmatched voltages and amperages. Use the figures to help identify the correct plug for your application.



5-15P | 5-20P | 6-15P | 6-20P | 6-30P | 6-50P | L15-20P | L15-30P | L6-20P | L6-30P

Cold Water Pressure Washers, Electric/Direct-Drive

NORTH AMERICA First Choice When Quality Matters

- 3 piston axial pump
- Tempered stainless steel plungers

All models, except 5RCC2, feature a TSS motor (Total Stop System) which turns on and off when spray gun is activated and has an automatic safety valve with pressure shutoff at the head. Units include an adjustable high-pressure nozzle. All units include either foam bottle or chemical injector. 5RCC2 and 5RCC3 also come with a ceramic plunger and crank shaft pump. 3APW3 and 786A14 include a turbo nozzle/lance. 468C08 has a quick-connect soap nozzle.

5RCC2

468C08

HP	Piston Material	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Carry Style									
2.0 hp	Solid Ceramic	1,900 psi	2.1 gpm	19 A	20+	GFCI	25 ft	53 lb	**5RCC2**
	Solid Ceramic	1,900 psi	2.1 gpm	19 A	20+	GFCI	25 ft	55 lb	**16X047**
Cart Style									
1.8 hp	Stainless Steel	1,600 psi	1.7 gpm	12.5 A	0 to 5	GFCI	¼ in x 20 ft	16.3 lb	**786A13**
1.9 hp	Steel	1,710 psi	1.3 gpm	13 A	30+	GFCI	¼ in x 30 ft	42 lb	**468C08**
2.0 hp	Solid Ceramic	1,900 psi	2.1 gpm	20 A	20+	GFCI	5/16 in x 30 ft	88 lb	**5RCC3**
2.2 hp	Stainless Steel	2,300 psi	1.7 gpm	13 A	0 to 5	GFCI	¼ in x 25 ft	32.4 lb	**786A14**
Portable, Wheeled									
1.8 hp	Stainless Steel	1,900 psi	1.5 gpm	15 A	0 to 10	5-15P	¼ in x 20 ft	29 lb	**3APW3**

Cold Water Pressure Washers, Electric Motor

Mi-T-M Performance Under Pressure.

- Crankshaft pump
- Solid ceramic pistons
- Downstream, low-pressure chemical injection
- Thermal relief valve prevents pump damage

Quiet operation and no engine exhaust make them ideal for indoor use.

DIRECT-DRIVE

35-ft. cord has ground fault circuit interrupter (except 3WB89). Include 36" insulated wand with 0° to 60° spray nozzle except 3WB88 and 3WB89 which are equipped with 15° and 25° high-pressure/chemical nozzle. Cart Style units include solid steel axles and tubed pneumatic tires. Max. intake water temp.: 125°F.

BELT-DRIVE

Stationary Style

3WB73 and 3WB74 are designed for hot water use without any exhaust. Feature 4-ft. cord with ground fault circuit interrupter, user-adjustable time delay auto shutdown, and thermal overload protection. Industrial-duty motor is enclosed in an easy-to-access stainless steel cabinet. Max. intake water temp.: 180°F. Include 36" wand with 0°, 15°, 25°, and 40° quick-connect nozzles.

Cart Style

20KC14 features thermal overload protection, external bypass system, and totally enclosed powder-coated belt guard. Includes 50-ft. ⅜" nonmarking hose, insulated lance and trigger gun with safety lock, and 10-ft. power cord.

Light Duty, 1.5 HP 1TDK4

Medium Duty, 2 HP 3WB87

Stationary Belt Drive, 6 HP 3WB74

HP	Operating Pressure	Flow Rate	Volts/ Phase	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net Wt.	Item No.
Direct-Drive, Carry Style									
1.5 hp	1,400 psi	1.5 gpm	120/1	13.5 A	0 to 10	5-15P	⅜ in x 25 ft	45 lb	**1TDK4**
Direct-Drive, Cart Style									
1.5 hp	1,000 psi	2.0 gpm	120/1	12.5 A	10 to 20	5-15P	⅜ in x 25 ft	90 lb	**3WB86**
2.0 hp	1,500 psi	2.0 gpm	120/1	17 A	10 to 20	5-20R	⅜ in x 25 ft	90 lb	**3WB87**
4.0 hp	2,000 psi	2.8 gpm	230/1	16 A	10 to 20	6-20P	⅜ in x 25 ft	112 lb	**3WE20**
6.0 hp	2,500 psi	3.2 gpm	230/1	24.1 A	20+	6-30	⅜ in x 25 ft	225 lb	**3WB88**
8.0 hp	3,000 psi	3.9 gpm	230/1	34.5 A	20+	6-50P	⅜ in x 25 ft	225 lb	**3WB89**
Belt-Drive, Stationary Style									
2.0 hp	1,000 psi	2.5 gpm	120/1	18.8 A	20+	5-20P	⅜ in x 50 ft	172 lb	**3WB73**
6.0 hp	2,000 psi	3.9 gpm	230/1	24.1 A	20+	L6-30P	⅜ in x 50 ft	214 lb	**3WB74**
Belt-Drive, Cart Style									
8.0 hp	3,000 psi	3.5 gpm	230/3	20 A	20+	L15-30P	⅜ in x 50 ft	318 lb	**20KC14**
Accessory									
Stainless Steel Wall Mounting Bracket, For Use With 3WB73-74									**3XY63**

Cold Water Pressure Washers, Electric Motor

Dayton

- Solid ceramic pistons
- Direct-drive crankshaft pump

Feature totally-enclosed fan-cooled motors and carry-style models also have thermal overload protection. All come with a 35-ft. power cord with GFCI and thermal relief valves. Built-in low pressure detergent injector eliminates scrubbing by hand. 486Z73 includes variable high/low pressure nozzle with an adjustable spray pattern, 25-ft. high pressure hose, trigger gun, and 2-pc., 36" lance. 486Z74 and 486Z75 include high/low pressure nozzle, high-pressure, quick-connect hose, and trigger gun with safety lock. CSA Certified.

486Z73

486Z74

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Light Duty, Cart Style								
1.5 hp	1,400 psi	1.5 gpm	13.5 A	5 to 10	5-15P	⅜ in x 25 ft	95 lb	**486Z73**
Medium Duty, Carry Style								
2.0 hp	1,500 psi	2.1 gpm	19 A	20+	5-20P	⅜ in x 25 ft	55 lb	**486Z74**
	1,500 psi	2.1 gpm	19 A	20+	5-20P	⅜ in x 25 ft	53 lb	**486Z75**

486Z83

39W807

52PF29

39W803

Mi-T-M Performance Under Pressure. Dayton

Cold Water Pressure Washers, Electric Motor

- Solid ceramic pistons
- Crankshaft pumps

These washers generate fluid pressure with a lightweight electric motor that provides cleaner and quieter operation than gas-powered engines. They remove mud, dirt, and debris and more from a variety of surfaces. All except 486Z79 and 52PF29 feature a built-in chemical detergent injector to apply cleaning agents and eliminate the need to scrub by hand. Available in cart-style and carry-style. Carry-style washers are lightweight and portable and can be used just about anywhere. CSA Certified.

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Brand	Item No.	
Light Duty, Cart Style										
2.0 hp	1,500 psi	2.0 gpm	17 A	10 to 20	5-20P	⅜ in x 50 ft	90 lb	Mi-T-M	**39W806**	
	1,500 psi	2.0 gpm	17 A	10 to 20	5-20P	⅜ in x 25 ft	92 lb	Dayton	**486Z85**	
Medium Duty, Cart Style										
1.5 hp	1,000 psi	2.0 gpm	15 A	10 to 20	5-15P	⅜ in x 25 ft	90 lb	Dayton	**486Z83**	
6.0 hp	2,500 psi	3.2 gpm	15 A	10 to 20	L15-20P	⅜ in x 50 ft	225 lb	Mi-T-M	**39W807**	
Heavy Duty, Cart Style										
8.0 hp	3,000 psi	3.5 gpm	10 A	20+	16-20P	⅜ in x 50 ft	301 lb	Mi-T-M	**486Z79**	*
Industrial Duty, Cart Style										
15.0 hp	4,000 psi	3.9 gpm	40 A	40+	15-50P	⅜ in x 50 ft	431 lb	Mi-T-M	**52PF29**	*†
	5,000 psi	4.0 gpm	40 A	20+	15-50P	⅜ in x 50 ft	431 lb	Mi-T-M	**39W815**	*
Light Duty, Carry Style										
1.5 hp	1,000 psi	2.0 gpm	12.5 A	10 to 20	5-15P	⅜ in x 25 ft	58 lb	Mi-T-M	**39W801**	
	1,400 psi	1.5 gpm	13.5 A	5 to 10	5-15P	⅜ in x 25 ft	45 lb	Dayton	**486Z84**	
2.0 hp	1,500 psi	2.0 gpm	17 A	10 to 20	5-20P	⅜ in x 25 ft	70 lb	Mi-T-M	**39W804**	
	1,500 psi	2.0 gpm	17 A	10 to 20	5-20P	⅜ in x 25 ft	76 lb	Mi-T-M	**39W803**	

** Belt-Drive † Triplex plunger pump*

460J90

486Z80

Mi-T-M Performance Under Pressure.

Cold Water Pressure Washers, Electric Motor

- Solid ceramic pistons
- Direct-drive crankshaft pump
- Wall mount

Feature a built-in chemical detergent injector to apply cleaning agents and eliminate the need to scrub by hand. All models come equipped with a high pressure hose and a quick-connect nozzle. 460J90, 486Z76, 486Z78, and 486Z77 also include trigger gun. CSA Certified.

HP	Operating Pressure	Flow Rate	Amps AC	Usable Hours per Week	Plug Type	Hose Dim.	Net. Wt.	Item No.
Medium Duty								
1.5 hp	1,000 psi	2.0 gpm	13.6 A	20+	5-15P	⅜ in x 50 ft	90 lb	**486Z72**
6.0 hp	2,000 psi	3.9 gpm	24.1 A	20+	6-30P	⅜ in x 50 ft	175 lb	**460J90**
Heavy Duty								
6.0 hp	2,000 psi	3.9 gpm	16.4 A	20+	15-20P	⅜ in x 50 ft	150 lb	**486Z76**
8.0 hp	3,000 psi	3.9 gpm	22.8 A	20+	15-30P	⅜ in x 50 ft	180 lb	**486Z78**
	3,000 psi	3.9 gpm	34.5 A	20+	6-50P	⅜ in x 50 ft	195 lb	**486Z77**
10.0 hp	4,000 psi	4.0 gpm	40.8 A	20+	6-50P	⅜ in x 50 ft	280 lb	**486Z80**

20KC06

20KC07

20KC10

Dayton

Cold Water Pressure Washers, Portable Gas Engine

- Honda engine
- Recoil start
- Aluminum frame
- Cart style

Portable units are easy to maneuver and transport to exactly where you need it. Include gun, wand, and hose.

HP	Engine Size	Operating Pressure	Flow Rate	Usable Hours per Week	Pump Drive	Hose Dim.	Net Wt.	Item No.
Heavy Duty								
6 hp	187cc	2,800 psi	2.4 gpm	0 to 10	Direct	⅜ in x 25 ft	75 lb	**20KC06**
6.5 hp	196cc	3,200 psi	2.4 gpm	10 to 20	Direct	⅜ in x 25 ft	85 lb	**20KC07**
Industrial Duty								
9 hp	270cc	3,600 psi	2.8 gpm	10 to 20	Direct	⅜ in x 50 ft	130 lb	**20KC08**
13 hp	389cc	3,800 psi	3.7 gpm	20+	Belt	⅜ in x 50 ft	150 lb	**20KC10**
		4,200 psi	3.4 gpm	10 to 20	Direct	⅜ in x 50 ft	142 lb	**20KC09**
		4,200 psi	3.4 gpm	20+	Belt	⅜ in x 50 ft	150 lb	**20KC11**

33M597

3WB97

1TDJ3

33M599

3WB72

33M601

20KC12

DEWALT

Cold Water Pressure Washers, Portable Gas Engine

- 20+ usable hours per week
- Honda GX Commercial Series engine with Oil Alert
- CAT industrial triplex pump with ceramic pistons and adjustable unloader
- Premium pneumatic tires with steel hubs

Include heavy-gauge steel frame, steel-braided high pressure hose, professional spray gun, and steel quick-connect spray wand. Feature 5 quick-connect spray nozzles: 0°, 15°, 25°, 40°, and soap. Direct-Drive models are equipped with secondary handle with instruction panel.

Engine Size	Operating Pressure	Flow Rate	Hose Dim.	Net Wt.	Item No.
Direct-Drive					
196 cc	3,200 psi	2.8 gpm	5/16 in x 25 ft	82 lb	**33M597**
270 cc	3,800 psi	3.5 gpm	⅜ in x 50 ft	122 lb	**33M598**
389 cc	4,200 psi	4 gpm	⅜ in x 50 ft	139 lb	**33M599**
Belt-Drive					
389 cc	4,200 psi	4 gpm	⅜ in x 50 ft	192 lb	**33M601**

Mi-T-M Performance Under Pressure. ChoreMaster

Cold Water Pressure Washers, Portable Gas or Diesel Engine

- Downstream, low-pressure chemical injection
- Thermal relief valve
- Solid steel frames

DIRECT-DRIVE

High pressure rating and compact design make these washers great for light- to medium-duty use. Include 36" wand, solid steel axles, and pneumatic tires.

Mi-T-M Models—Feature low oil shutdown, except 3WB97. Quick-connect nozzles: 0°, 15°, 25°, and chemical, except 3WB97 has 15°, 25°, and chemical only.

ChoreMaster—Feature fold-down steel handles and inline water strainer. Quick-connect nozzles: 15°, 25°, and chemical.

BELT-DRIVE

Provide less wear and longer life than direct-drive pumps. Ideal for heavy-duty use. Include external vibration- and heat-reducing bypass system and low-oil motor protection. Include 36" wand and 0°, 15°, 25°, 40°, and chemical quick-connect nozzles. 6CGP0 and 6CGP1 come with a 48" wand.

23-HP Electric Start—Large fuel tank allows 8-hr. run time. Dry battery included. Has a roll cage frame and lifting hook.

HP	Engine Size	Operating Pressure	Flow Rate	Engine Brand	Usable Hours per Week	Starter Type	Hose Dim.	Net Wt.	Item No.
Mi-T-M Direct-Drive Gas Engine									
5 hp	160 cc	2,000 psi	2.5 gpm	Honda	0 to 10	Recoil	⅜ in x 25 ft	75 lb	**3WB97**
6.5 hp	196 cc	2,400 psi	2.4 gpm	Honda	10 to 20	Recoil	⅜ in x 50 ft	75 lb	**3WB83**
		3,000 psi	2.4 gpm	Honda	10 to 20	Recoil	⅜ in x 50 ft	85 lb	**5MZU1**
7 hp	212 cc	3,000 psi	2.4 gpm	Mi-T-M	10 to 20	Recoil	⅜ in x 25 ft	85 lb	**5JKL7**
9 hp	277 cc	3,500 psi	2.8 gpm	Kohler	10 to 20	Recoil	⅜ in x 50 ft	129 lb	**38C739**
	280 cc	3,500 psi	2.8 gpm	Mi-T-M	10 to 20	Recoil	⅜ in x 50 ft	142 lb	**5MZU4**
13 hp	389 cc	4,000 psi	3.5 gpm	Honda	10 to 20	Recoil	⅜ in x 50 ft	142 lb	**5MZU3**
13.5 hp	420 cc	4,000 psi	3.4 gpm	Mi-T-M	10 to 20	Recoil	⅜ in x 50 ft	142 lb	**5MZU5**
ChoreMaster Direct-Drive Gas Engine									
6 hp	187 cc	2,700 psi	2.3 gpm	Honda	0 to 10	Recoil	⅜ in x 25 ft	75 lb	**1TDJ3**
Mi-T-M Belt-Drive Gas Engine									
13 hp	389 cc	3,000 psi	3.5 gpm	Honda	20+	Recoil	⅜ in x 50 ft	216 lb	**3WB72**
23 hp	688 cc	5,000 psi	4 gpm	Honda	20+	Electric	⅜ in x 50 ft	378 lb	**6CGP0**
		6,000 psi	3.7 gpm	Honda	20+	Electric	⅜ in x 50 ft	401 lb	**6CGP1**
Mi-T-M Belt-Drive Diesel Engine									
9.8 hp	—	3,000 psi	3.9 gpm	Kohler	20+	Electric	⅜ in x 50 ft	245 lb	**20KC12**

Mi-T-M Performance Under Pressure.

Cold Water Pressure Washer, Gas Engine

- Axial pump
- Built-in detergent injector system

Light-duty, direct-drive pump with thermal relief valve, in-line water strainer, and stainless steel pistons. Includes 3 quick-connect nozzles, hose, trigger gun, and lance.

Engine Size	Operating Pressure	Flow Rate	Hose Dim.	Usable Hours per Week	Net Wt.	Item No.
212 cc	3,000 psi	2.4 gpm	⅜ in x 25 ft	5 to 10	85 lb	**486Z81**

Diesel or Kerosene, 8 HP 1RM77 or 2GXL1

48UH46

Mi-T-M Performance Under Pressure.

Hot Water Pressure Washers, Electric Motor

- Crankshaft pump
- Solid ceramic pistons
- High-pressure chemical injection
- Output water temp.: 190° to 200°F (pressure washers); 250° to 300°F (steam cleaners)

Mounted on sturdy rolling frames with tubed pneumatic tires and solid steel axles. Feature enclosed fan-cooled industrial motors. Thermal relief valve helps prevent pump damage and an easy-access coil drain helps prevents freezing. Include ⅜" x 50-ft. hoses, 36" wand with 15° and chemical quick-connect nozzles, and 35-ft. electrical cord with GFCI, except 48UH46 and 48UH47.

Note: Additional models are available on Grainger.com.

DIESEL OR KEROSENE

Top-fired oil burner enhances fuel efficiency and servicing. Burn #1 or #2 diesel fuel or kerosene. Solid state electronic ignition. Heavy-duty frame, roll cage, and lifting hook. 3WB94 and 2GXK5 include 0°, 15°, 25°, 40°, and chemical quick-connect nozzles.

ELECTRIC BURNER

Eliminates exhaust fumes for interior cleaning applications. Heat exchanger cartridges provide consistent on-demand hot water.

HP	Operating Pressure	Flow Rate	Volts/Phase	Amps AC	Plug Type	Usable Hours per Week	Pump Drive	Net Wt.	PRESSURE WASHERS Item No.	COMBINATION STEAM CLEANERS Item No.
Diesel or Kerosene Burner Fuel										
2.0 hp	1,500 psi	2.0 gpm	120/1	20 A	5-20P	10 to 20	Direct	250 lb	**3WB94**	**2GXK5**
8.0 hp	3,000 psi	3.5 gpm	230/1	36 A	6-50P	20+	Belt	607 lb	**1RM77**	**2GXK9**
8.0 hp	3,000 psi	3.5 gpm	230/3	24 A	L15-30P	20+	Belt	602 lb	—	**2GXL1**
Electric Burner										
6.0 hp	2,500 psi	2.8 gpm	460/3	66 A	—	20+	Belt	725 lb	**48UH46**	—
8.0 hp	3,000 psi	3.9 gpm	460/3	98 A	—	20+	Belt	725 lb	**48UH47**	—

3WB82

1TDK1

Mi-T-M Performance Under Pressure.

Hot Water Pressure Washers, Diesel or Kerosene Engine

- Crankshaft pump
- Solid ceramic pistons
- Low-pressure chemical injector
- Output water temp.: 200°F
- Thermal relief valve

Electro Magnetic Firing (EMF) system requires no battery, generator, motor, or transformer. Top-fired burner assembly. Units burn #1 or #2 diesel fuel or kerosene. Include pneumatic tires and solid steel axles. Feature easy-access coil drain and overpressure protection. Dual 36" wand with fixed chemical nozzle and 0°, 15°, 25°, and 40° quick-connect nozzles. Electric start models include dry battery. Wrapped frame with lifting hook. Hood cover tilts for easy burner access. Skid-mount is heavy-duty powder-coated steel square tube frame. ½" schedule 80-coil with stainless steel wrap heat exchanger. Polyethylene burner and engine fuel tanks. Temperature rise is 150°F/66°C above ambient; max. outlet temperature is 200°F. Quick-connect nozzles: 0°, 15°, 25°, and 40°, 10-gal. fuel tank capacity. Oversized crankshaft pump with upgraded bearings.

Note: Additional kerosene pressure washer models are available on Grainger.com.

HP	Engine Size	Operating Pressure	Flow Rate	Engine Brand	Starter Type	Hose Dim.	Net Wt.	Item No.
Diesel or Kerosene, 20+ Usable Hours Per Week								
6.5 hp	196cc	2,400 psi	2.6 gpm	Honda	Recoil	⅜ in x 50 ft	269 lb	**3WE17**
9 hp	270cc	3,000 psi	2.8 gpm	Honda	Recoil	⅜ in x 50 ft	407 lb	**3WB80**
13 hp	389cc	3,000 psi	3.5 gpm	Honda	Electric	⅜ in x 50 ft	428 lb	**3WB81**
		3,500 psi	3.3 gpm	Honda	Electric	⅜ in x 50 ft	428 lb	**3WB82**
Diesel or Kerosene, Skid-Mount, 20+ Usable Hours Per Week								
20 hp	688cc	4,000 psi	4 gpm	Honda	Electric	⅜ in x 50 ft	750 lb	**1TDK1**

Spray Guns

- Automatic trigger shutoff and trigger lock
- Stainless steel and brass internals
- Buna-N and PTFE seals
- See Grainger.com for additional models

Weep-Style Spray Gun 1MDJ7 is designed to leak to protect from freezing; suited for owner-operated and self-service car washes.

52DC83

52DC82

1MDJ7

5JKN0

Description	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Outlet	Item No.
Spray Guns	5,075 psi	10.6 gpm	320 °F	⅜ in FNPT	¼ in FNPT	**1MDC8**
	4,000 psi	7.0 gpm	320 °F	⅜ in FNPT	¼ in FNPT	**52DC83**
	4,500 psi	8.0 gpm	320 °F	⅜ in FNPT	¼ in FNPT	**52DC82**
Spray Gun with 14" Extension	4,500 psi	8.0 gpm	320 °F	⅜ in FNPT	22mm	**52DC84**
Weep-Style Spray Gun	4,500 psi	10.6 gpm	320 °F	⅜ in FNPT	¼ in FNPT	**1MDJ7**
High Pressure Spray Gun	5,075 psi	12 gpm	320 °F	⅜ in FNPT	¼ in FNPT	**16X048**
Heavy Duty Spray Gun	8,700 psi	21 gpm	300 °F	⅜ in FNPT	¼ in FNPT	**5JKN0**

1MDD1

1MDD5

1MDD6

5ELY9

1MDE2

Insulated Extension and Pivot Nozzle Wands

- Zinc-plated steel tubes
- ¼" tube diameter, except on No. 1MDD8, which has ⅛"-diameter tubes
- Max. fluid temp.: 300°F
- See Grainger.com for additional models

Molded plastic grips provide comfortable hand positioning to reduce user fatigue. Deluxe Dual Wand 1MDD6, features stainless steel tubes and includes a ¼" female quick-connect nozzle coupler and soap tip. 1MDE2 has a ¼" quick-connect discharge port.

Description	Length	Max. Pressure	Max. Flow	Inlet	Outlet	Item No.
Molded Grip Wands	24 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD1**
	36 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD2**
	48 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD3**
	59 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD7**
Vented Grip Wands	36 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD4**
	48 in	5,000 psi	10.5 gpm	¼ in MNPT	¼ in MNPT	**1MDD5**
Dual Wand	36 in	3,650 psi	10.5 gpm	¼ in MNPT	¼ in FNPT	**1MDD8**
Deluxe Dual Wand	40 in	4,000 psi	11.0 gpm	¼ in MNPT	¼ in Q.C.	**1MDD6** *
90° Pivot Nozzle Wands, Chrome Plated	28 in	3,200 psi	8.0 gpm	22mm MNPT	¼ in Q.C.	**5ELY7**
	40 in	4,000 psi	10.0 gpm	¼ in MNPT	¼ in Q.C.	**5ELY8**
90° Pivot Nozzle Wand, Stainless Steel	40 in	4,000 psi	10.0 gpm	¼ in MNPT	¼ in Q.C.	**5ELY9**
Handle Grip Stainless Steel Extension Wand	48 in	6,000 psi	6.0 gpm	¼ in MNPT	¼ in MNPT	**5JKN3**
Wand Extension	24 in	5,000 psi	10.5 gpm	22mmMNPT	¼ in FNPT	**1MDE2** *

***** *¼" Quick-Connect discharge port.*

Gun/Wand/Hose Kits

CONSUMER GRADE KIT

Includes spray gun, 18" wand, adjustable nozzle, and ¼" x 25-ft. hose.

PROFESSIONAL GRADE KIT

Includes spray gun, 24" wand with ¼" quick connect, and ⅜" x 50-ft. hose.

UNIVERSAL KIT

Includes spray gun, lance with adjustable spray pattern head, lance with turbo nozzle, 25-ft. hose, foamer bottle, and adapter.

1MDK3

1MDK2

Description	L	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Item No.
Consumer Kit	30 in	3,000 psi	5.5 gpm	140 °F	22mm MNPT	**1MDK3**
Professional Kit	42 in	4,000 psi	10.0 gpm	250 °F	⅜ in FNPT	**1MDK2**
Universal Kit	11"	2,320 psi	3 gpm	140 °F	22mm	**20JZ20**

Scan. Order. Done.
Details on page A1.

Quick-Connect Couplers and Plugs

1MDG6

1MDG7

5JKN7

1MDG9

1MDL1

1MDL6

Change sprayer nozzles without using tools. Quick-Connect Coupler 1MDG6 and 1MDG7 feature Viton O-rings. Brass/stainless steel, galvanized steel, and brass models have a max. pressure of 4000 psi. Stainless steel have a 6000 psi max. pressure. All have a max. temp.: 300°F.

Description	Material	Inlet	Outlet	Item No.
Quick Connect Couplers/Plugs				
Coupler	Brass/Stainless Steel	¼ in (F)NPT	¼ in (F) QC	**1MDG6**
		⅜ in (F)NPT	⅜ in (F) QC	**1MDG7**
	Stainless Steel	¼ in (F)NPT	¼ in (F) QC	**5JKN6**
		¼ in (F)NPT	¼ in (M) QC	**35Z909**
		¼ in (M)NPT	¼ in (F) QC	**35Z907**
		¼ in (M)NPT	¼ in (M) QC	**35Z908**
		⅜ in (F)NPT	⅜ in (F) QC	**5JKN7**
		⅜ in (M)NPT	⅜ in (F) QC	**5JKN8**
Plug	Galvanized Steel	¼ in (M)NPT	¼ in (M) QC	**1MDG8**
		⅜ in (F)NPT	⅜ in (M) QC	**1MDH1**
		⅜ in (M)NPT	⅜ in (M) QC	**1MDG9**
	Stainless Steel	⅜ in (F)NPT	⅜ in (M) QC	**5JKN5**
		⅜ in (M)NPT	⅜ in (M) QC	**5JKN4**
Ball Quick Coupler, ⅜ in (M)NPT, 4,000 psi				**20JZ19**
Threaded Connect Couplers/Plugs				
Coupler	Brass	¼ in (F)NPT	22mm x 1.5 (F) QC	**1MDL1**
		¼ in (M)NPT	22mm x 1.5 (F) QC	**1MDL2**
		⅜ in (F)NPT	22mm x 1.5 (F) QC	**1MDL4**
		⅜ in (M)NPT	22mm x 1.5 (F) QC	**1MDL3**
Plug		¼ in (F)NPT	22mm x 1.5 (M) QC	**1MDL5**
		¼ in (M)NPT	22mm	**1MDL6**
		⅜ in (F)NPT	22mm x 1.5 (M) QC	**1MDL7**
		⅜ in (M)NPT	22mm x 1.5 (M) QC	**1MDL8**

1MDD9

1MDH8

Telescoping Wands

- Feature internal high-pressure hoses
- Pole tips fit standard quick-connect nozzles

Feature removable angled spray head. Compatible with quick-connect-style nozzles. Ideal as an accessory for pressure washers, for cleaning home siding, industrial buildings, and trailers. Twist collar to extend and retract the wand.

WAND SUPPORT BELT

- Nylon belt with adjustable hook-and-loop closure
- Supports 18- and 24-ft. telescoping wands

Wand clamps to the belt for greater support and comfort during long cleaning jobs.

Length	Max. Pressure	Max. Flow	Max. Fluid Temp.	Inlet	Outlet*	Item No.
Fiberglass Poles						
18 ft	4,000 psi	8.0 gpm	200 °F	⅜ in FNPT	¼ in Q.C.	**1MDD9**
24 ft	4,000 psi	8.0 gpm	200 °F	⅜ in (M) Q.C.	¼ in Q.C.	**1MDH7**
Wand Support Belt						
33 to 55" Waist Size, Black						**1MDH8**

***** Q.C. = Quick-Connect.*

1MDJ4

1MDJ5

Sandblast Kits

BRASS KIT

Includes nozzle, 10-ft. sand hose, 2 clamps, and sand probe.

STAINLESS STEEL KIT WITH FAN SPRAY

Includes 4 different-sized nozzles, 25-ft. sand hose, 2 clamps, and sand probe.

Description	Max. Pressure	Max. Flow	Inlet	Item No.
Brass Kit	3,650 psi	5.5 gpm	¼ in NPT	**1MDJ4**
Stainless Steel Kit with Fan Spray	7,250 psi	7.6 gpm	¼ in NPT	**1MDJ5**

Adjustable Pressure Regulator

SIMPSON

Can be used with a universal gas pressure washer to convert it into a variable pressure washer. Pressure can be adjusted right from the wand; from 1000 psi to a max. of 4500 psi (dependent upon the machine being used).

Max. Flow	Max. Pressure	Max. Fluid Temp.	Inlet	Item No.
4.0 gpm	4,500 psi	140 °F	M22	**34FW17**

1MDF6

1MDH2

Spray Nozzles

- Max. pressure: 5000 psi
- Max. fluid temperature: 200°F

1-pc., hardened stainless steel is resistant to most chemicals.

¼" MALE QUICK-CONNECT NOZZLES

Package includes 1 each of these high-pressure nozzles with color-coded plastic caps: 0° (red), 15° (yellow), 25° (green), 40° (white), and black soap nozzle.

¼" MALE NPT NOZZLES

Package includes 5 identical 15° nozzles.

Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	5000	¼" MALE QUICK CONNECT Item No.	¼" MALE NPT Item No.
3	1.34 gpm	1.5 gpm	1.84 gpm	2.12 gpm	2.37 gpm	2.6 gpm	2.81 gpm	3 gpm	3.35 gpm	**1MDF6**	—
3.5	1.57 gpm	1.75 gpm	2.14 gpm	2.47 gpm	2.77 gpm	3.03 gpm	3.27 gpm	3.5 gpm	3.91 gpm	**1MDF7**	**1MDH2**
4	1.79 gpm	2 gpm	2.45 gpm	2.83 gpm	3.16 gpm	3.46 gpm	3.74 gpm	4 gpm	4.47 gpm	**1MDE9**	**1MDF8**
4.5	2.01 gpm	2.25 gpm	2.76 gpm	3.18 gpm	3.56 gpm	3.9 gpm	4.21 gpm	4.5 gpm	5.03 gpm	**1MDF1**	**1MDF9**
5	2.24 gpm	2.5 gpm	3.06 gpm	3.54 gpm	3.95 gpm	4.33 gpm	4.68 gpm	5 gpm	5.59 gpm	**1MDF2**	**1MDG1**
5.5	2.46 gpm	2.75 gpm	3.37 gpm	3.89 gpm	4.35 gpm	4.76 gpm	5.14 gpm	5.5 gpm	6.15 gpm	**1MDF3**	**1MDG2**
6.5	2.91 gpm	3.25 gpm	3.98 gpm	4.6 gpm	5.14 gpm	5.63 gpm	6.08 gpm	6.5 gpm	7.27 gpm	**1MDF4**	**1MDG3**
8	3.58 gpm	4 gpm	4.9 gpm	5.66 gpm	6.32 gpm	6.93 gpm	7.48 gpm	8 gpm	8.94 gpm	**1MDF5**	**1MDG5**
15	6.71 gpm	7.5 gpm	9.19 gpm	10.61 gpm	11.86 gpm	12.99 gpm	14.03 gpm	15 gpm	16.77 gpm	**1MDH5**	**1MDH3**
20	8.94 gpm	10 gpm	12.25 gpm	14.14 gpm	15.81 gpm	17.32 gpm	18.71 gpm	20 gpm	22.36 gpm	**1MDH6**	**1MDH4**

Nozzles and Filters

TURBO ROTARY SPRAY NOZZLES

Improve washer's efficiency and provide the blasting power of a 0° nozzle over a wide 20° cleaning stream area. Solid brass body with ceramic orifice. Rubber housing protects against impact. Max. fluid temp. is 195°F (200°F for 35XH58 and 35XH59). ¼" (F)NPT inlet. 5JKN1 is for use with 5JKN3, see page 1591, and includes filler and quick connect.

Note: The operation of the turbo nozzle may cause damage to the surface being sprayed. Test on a small area before using on intended application.

SPECIALTY NOZZLES

No physical nozzle change necessary between high pressure and soap nozzles. Max. fluid temp. is 300°F; inlet and outlet ports are ¼" (F). 5RCC4 Long-Range Soap Nozzle quick connects to pressure washer wand and projects chemicals 15 to 20 ft. Adjusts from fan spray to stream. No assembly required.

TURBO NOZZLE INLET FILTERS

Filters prevent turbo nozzles from clogging by trapping fine debris particles. Install easily between the end of the lance and turbo nozzle. Max. flow is 8 gpm; max. fluid temp. is 200°F.

1MDE4

5RCC4

1MDK7

Max. Pressure	Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	5000	Item No.
Turbo Rotary Spray Nozzles											
3,625 psi	4	1.79 gpm	2.02 gpm	2.52 gpm	2.93 gpm	3.3 gpm	3.59 gpm	3.89 gpm	—	—	**1MDE3**
	5.5 to 6	2.46 gpm	2.77 gpm	3.48 gpm	4.1 gpm	4.56 gpm	5.04 gpm	5.44 gpm	—	—	**1MDE4**
	7 to 7.5	3.13 gpm	3.55 gpm	4.4 gpm	5.14 gpm	5.75 gpm	6.3 gpm	6.83 gpm	—	—	**1MDE5**
4,000 psi	2.7	1.2 gpm	1.3 gpm	1.6 gpm	1.9 gpm	2.1 gpm	2.3 gpm	2.5 gpm	2.7 gpm	—	**20JZ21**
	3.3	1.5 gpm	1.6 gpm	2 gpm	2.3 gpm	2.5 gpm	2.8 gpm	3 gpm	3.3 gpm	—	**20JZ22**
	3.9	1.8 gpm	1.9 gpm	2.4 gpm	2.7 gpm	3 gpm	3.3 gpm	3.6 gpm	3.9 gpm	—	**20JZ23**
5,075 psi	4	1.79 gpm	2.02 gpm	2.52 gpm	2.93 gpm	3.3 gpm	3.59 gpm	3.89 gpm	4.17 gpm	4.39 gpm	**1MDE6**
	5.5	2.46 gpm	2.77 gpm	3.48 gpm	4.1 gpm	4.56 gpm	5.04 gpm	5.44 gpm	5.84 gpm	6.17 gpm	**1MDE7**
	7	3.13 gpm	3.19 gpm	4.03 gpm	4.7 gpm	5.3 gpm	5.86 gpm	6.31 gpm	6.8 gpm	7.18 gpm	**1MDE8**
6,000 psi	3.5	4 gpm	4 gpm	4 gpm	4 gpm	4 gpm	4 gpm	4 gpm	4 gpm	4 gpm	**5JKN1**
AR Turbo Rotary Spray Nozzles											
5,800 psi	10	4.4 gpm	5 gpm	6.1 gpm	7 gpm	7.9 gpm	8.6 gpm	9.3 gpm	10 gpm	11.1 gpm	**35HX58**
	12	5.3 gpm	6 gpm	7.3 gpm	8.4 gpm	9.4 gpm	10.3 gpm	11.2 gpm	12 gpm	13.4 gpm	**35HX59**

Description	Max. Pressure	Max. Flow	Material	Item No.
Specialty Nozzles				
Change Over Nozzle	2,900 psi	8.0 gpm	Nickel-Plated Brass	**1MDJ3**
Long Range Fan and Soap Spray Nozzle	4,000 psi	—	Brass/Plastic	**5RCC4**

Max. Pressure	Inlet	Material	Item No.
Turbo Nozzle Inlet Filters			
5,000 psi	¼ in (F)NPT	Brass/Stainless Steel	**1MDK6**
5,000 psi	¼ Quick-Connect Plug	Brass/Stainless Steel	**1MDK7**

Inlet	Max. Pressure	Max. Flow	Material	Item No.
AR Pressure Switches				
¼ in NPT	4,060 psi	—	Brass, Plastic, Stainless Steel	**35HX51**
⅜ in NPT	4,060 psi	—	Brass, Plastic, Stainless Steel	**35HX52**
AR Flow Switches				
⅜ in NPT	5,660 psi	8 gpm	Brass, Plastic, Steel	**35HX53**
⅜ in NPT	5,660 psi	8 gpm	Brass, Plastic, Steel	**35HX54**
AR Swivels				
⅜ in NPT	4,060 psi	12 gpm	Stainless Steel	**35HX55**
⅜ in NPT	4,500 psi	8 gpm	Stainless Steel	**35HX56**
⅜ in NPT	4,500 psi	8 gpm	Brass	**35HX57**

Sewer Cleaning Pressure Washer Accessories

Use to convert pressure washers to jetting machines, or to clean sewer drain lines.

SEWER AND ROTATING NOZZLES

Stainless steel, bull-nose nozzle slides easily into drain pipes and sewer lines to flush debris or clear frozen pipes while attached to sewer hose.

SEWER HOSE

Flexible hose for use with sewer nozzles. Max. temp.: 160°F.

FOOT-ACTUATED VALVES

Foot-controlled valves allow both hands to be free to control the sewer hose. ¼" FNPT outlet.

PUMP DISABLER VALVES

Jetter valves convert standard triplex plunger pumps into sewer cleaning pumps. Disabler pulse valves have adjustable levers to change pump to either configuration by turning the handle on the valve.

3ANT9

3ANU8

3ANV6

3ANV4

3ANW1

Nozzle Size	GPM @ psi 800	1000	1500	2000	2500	3000	3500	4000	Item No.
¼" (F) Inlet Port Sewer Nozzles									
4.5	2.01 gpm	2.25 gpm	2.76 gpm	3.18 gpm	3.56 gpm	3.9 gpm	4.21 gpm	4.5 gpm	**3ANT9**
5.5	2.46 gpm	2.75 gpm	3.37 gpm	3.89 gpm	4.35 gpm	4.76 gpm	5.14 gpm	5.5 gpm	**3ANU1**
6.5	2.91 gpm	3.25 gpm	3.98 gpm	4.6 gpm	5.14 gpm	5.63 gpm	6.08 gpm	6.5 gpm	**3ANU2**
⅜" (F) Inlet Port Sewer Nozzles									
4	1.79 gpm	2 gpm	2.45 gpm	2.83 gpm	3.16 gpm	3.46 gpm	3.74 gpm	4 gpm	**3ANU3**
5.5	2.46 gpm	2.75 gpm	3.37 gpm	3.89 gpm	4.35 gpm	4.76 gpm	5.14 gpm	5.5 gpm	**3ANU4**
6.5	2.91 gpm	3.25 gpm	3.98 gpm	4.6 gpm	5.14 gpm	5.63 gpm	6.08 gpm	6.5 gpm	**3ANU5**
8.5	3.8 gpm	4.25 gpm	5.21 gpm	6.01 gpm	6.72 gpm	7.36 gpm	7.95 gpm	8.5 gpm	**3ANU6**
12	5.37 gpm	6 gpm	7.35 gpm	8.49 gpm	9.49 gpm	10.39 gpm	11.22 gpm	12 gpm	**3ANU7**
¼" (F) Inlet Port Rotating Sewer Nozzles									
4.5	2.01 gpm	2.25 gpm	2.76 gpm	3.18 gpm	3.56 gpm	3.9 gpm	4.21 gpm	4.5 gpm	**3ANU8**
6	2.68 gpm	3 gpm	3.67 gpm	4.24 gpm	4.74 gpm	5.2 gpm	5.61 gpm	6 gpm	**3ANU9**
⅜" (F) Inlet Port Rotating Sewer Nozzles									
4.5	2.01 gpm	2.25 gpm	2.76 gpm	3.18 gpm	3.56 gpm	3.9 gpm	4.21 gpm	4.5 gpm	**3ANV1**
5	2.24 gpm	2.5 gpm	3.06 gpm	3.54 gpm	3.95 gpm	4.33 gpm	4.68 gpm	5 gpm	**3ANV2**
8.5	3.8 gpm	4.25 gpm	5.21 gpm	6.01 gpm	6.72 gpm	7.36 gpm	7.95 gpm	8.5 gpm	**3ANV3**

Inside Dia.	Max. Pressure	Hose L	Item No.
Sewer Hose			
¼ in	4400 psi	50 ft	**3ANV6**
¼ in	4400 psi	100 ft	**3ANV7**
⅜ in	4000 psi	100 ft	**3ANV8**
⅜ in	4000 psi	200 ft	**3ANV9**

Max. Pressure	Max. Flow	Max. Fluid Temp.	Item No.
Foot-Actuated Sewer Valves			
3,000 psi	8.0 gpm	320 °F	**3ANV4**
5,000 psi	12.0 gpm	300 °F	**3ANV5**

Max. Pressure	Dim.	For Use With	Item No.
Pump Disabler Valves			
3,000 psi	1¼ in W x 3¼ in L	Mfr No. GC-2503-0ME1, GC-3004-0ME1, GC-3003-0MHB, GC-3003-0MRB, GH-2403-0GAH, Annovi Reverberi XT, XM Series Pumps	**3ANW1**
4,000 psi	1¼ in W x 3¼ in L	Mfr No. GH-3004-0EGH, Annovi Reverberi RK Series Pumps	**3ANW2**
4,000 psi	1½ in W x 3¾ in L	Annovi Reverberi XW Series Pumps	**3ANW3**

High-Speed Rotary Surface Cleaners

Suited for decks, patios, sidewalks, driveways, pool decks, and parking lots. 3WB98 includes trigger gun with (2) 4½" nozzles and pneumatic tires. 36RM51 and 36RM52 include pressure washer with Honda engine for increased versatility.

3WB98

36RM51

Cleaning Path	Max. Pressure	Flow Rate	Housing Material	Brand	Item No.
Cleaners					
14 in	4,000 psi	3 to 8 gpm	Polypropylene	AR North America	**45NA06**
28 in	4,000 psi	3 to 10 gpm	Aluminum	Mi-T-M	**3WB98**
Cleaners w/ Pressure Washer					
20 in	2,500 psi	3.5 gpm	Polypropylene	Dayton	**36RM51**
24 in	4,000 psi	4 gpm	Stainless Steel	Dayton	**36RM52**

simple green

Pressure Washer Chemicals

Designed for use in all types of pressure washers.

1MDJ8

3ANW4

Description	Size	Brand	Item No.
Crankcase Oil, SAE Grade 30	16 oz.	—	1MDJ8
Simple Green Deck and Fence Cleaner Concentrate	1 gal	Simple Green	3ANW4
Simple Green House and Siding Cleaner Concentrate	1 gal	Simple Green	3ANW5
Simple Green Concrete and Driveway Cleaner Concentrate	1 gal	Simple Green	3ANW6
Simple Green Heavy-Duty Cleaner and Degreaser Concentrate	1 gal	Simple Green	3ANW7

1MDK4

Water Brooms

Rust-resistant brooms provide a wide cleaning path for fast and easy cleaning. Units hook up to pressure washer spray gun lance with a standard ¼" quick disconnect plug.

Description	W	Max. Pressure	Item No.
3-Nozzle	12 in	4,000 psi	1MDK4
4-Nozzle	16 in	4,000 psi	1MDK5

1MDK1

3WE19

REELCRAFT

Mi-T-M

Pressure Wash Hand-Crank Hose Reels

These hose reels are equipped with a high-pressure water swivel that handles a broad range of pressures, temperatures, and chemicals. These steel reels withstand corrosion, hold tangle-free hose, and mount on the floor, wall, bench, or in trucks. They are used with water or chemical hoses for equipment cleaning, pressure washing, and in agricultural spraying.

Hose Cap.	Overall Dim.	Seal Material	Reel Color	Brand	Item No.
Max. Operating Pressure: 3,000 psi					
100 ft (⅜ in I.D.)	13 ½ in L x 18 in W x 17 in H	Nitrile	Black	—	1MDK1
Max. Operating Pressure: 5,000 psi					
100 ft (⅜ in I.D.)	14 in L x 13 ¾ in W x 20 ⅛ in H	TFE/P	Red	Reelcraft	5KPC9
150 ft (1 in I.D.)	32 in L x 17 ½ in W x 20 in H	FKM	Black	Mi-T-M	3WE19
250 ft (⅜ in I.D.)	18 in L x 18 in W x 18 in H	Nitrile	Silver	—	5RCC7

BRIGGS & STRATTON

Pressure Washer Pump Savers

Unique antifreeze and lubricant formula. Protect pistons and seals from damage during storage. For use before extended storage and before startup the next season.

45TP60

Size	Max. Pressure	Max. Fluid Temp.	Inlet	Item No.
4 oz	0.1 psi	122 °F	⅜ in NPT	45TP60
10 oz				45TP61

22KD99

22KE01

1ZLT8

SPEEDAIRE

Pressure Washer Hoses

SPEEDAIRE

2600 psi models have a textile braid reinforcement, and RMA Class B oil resistance. 3000 to 4500 psi models have a wire braid reinforcement, and RMA Class A oil resistance.

YELLOW, NITRILE

Stainless steel wire braid reinforcement for protection against oil and animal fat. RMA Class A oil resistance and 4:1 safety factor.

BLUE AND BLACK, NITRILE

1500 psi models have a textile braid reinforcement. 3000 and 4500 psi models have a wire braid reinforcement. Blue hoses are nonmarking and abrasion resistant. RMA Class B oil resistance and 4:1 safety factor.

FOOD GRADE

Single wire braid reinforcement. Resists oil, abrasion, and animal fats. Outside cover has Microban antimicrobial protection. 4:1 safety factor.

STEAM CLEANER/ PRESSURE WASHER

Single wire braid reinforcement. For steam cleaners or combination steam cleaners/pressure washers. Handles hot water up to 250°F at 3000 psi (2500 psi on ½"), or steam up to 325°F at 350 psi. 4:1 safety factor.

Inside Dia.	Hose Length	Max. Working Pressure @ 70°F	Fitting Size*	Max. Temp.	Item No.
Speedaire, Black, PVC					
¼ in	25 ft	2,600 psi	M22 Female x M22 Female	140°F	22KD99
	25 ft	2,600 psi	¼ in x M22	140°F	22KD97
Speedaire, Black, Nitrile					
5⁄16 in	25 ft	3,500 psi	M22 Female x M22 Female	250°F	22KE04
	50 ft	3,500 psi		250°F	22KE05
⅜ in	30 ft	3,000 psi	⅜ in x ⅜ in	250°F	22KE01
	50 ft	3,000 psi		250°F	22KE02
	50 ft	4,500 psi		250°F	22KE06
	100 ft	3,000 psi		250°F	22KE03
Yellow, Nitrile					
⅜ in	15 ft	3,000 psi	⅜ in x ⅜ in	250°F	1DKL9
	25 ft	3,000 psi		250°F	1DKN1
	50 ft	1,500 psi		250°F	1DKN4
	50 ft	3,000 psi		250°F	1DKN2
	100 ft	1,500 psi		250°F	1DKN5
½ in	50 ft	3,000 psi	½ in x ½ in	250°F	1DKN3
Blue, Nitrile					
¼ in	50 ft	3,000 psi	¼ in x ¼ in	250°F	3JT38
	100 ft	3,000 psi		250°F	3JT37
⅜ in	50 ft	3,000 psi	⅜ in x ⅜ in	250°F	3JT40
	100 ft	3,000 psi		250°F	3JT39
Black, Nitrile					
¼ in	25 ft	1,500 psi	¼ in x ¼ in	200°F	2P768
	30 ft	3,000 psi		250°F	2P763
⅜ in	30 ft	1,500 psi	⅜ in x ⅜ in	200°F	2P769
	30 ft	3,000 psi		250°F	2P764
	50 ft	1,500 psi		200°F	3JT35
	50 ft	3,000 psi		250°F	2P765
	50 ft	4,500 psi		250°F	3JT42
	100 ft	3,000 psi		250°F	3JT36
	100 ft	4,500 psi		250°F	3JT41
Black, Synthetic Rubber					
⅜ in	50 ft	6,000 psi	⅜ in x ⅜ in	250°F	1ZLH4
	100 ft	6,000 psi		250°F	1ZLH5
Bulk Hose without Fittings, Black, Synthetic Rubber					
¼ in	500 ft	3,000 psi	No Fittings	250°F	1ZLH6
⅜ in	500 ft	3,000 psi		250°F	1ZLH7
½ in	500 ft	3,000 psi		250°F	1ZLH8
Food Grade, Yellow					
⅜	50	3,000 psi	⅜" (M)NPT x ⅜" (M)NPT S	-20 to 250	1ZLT8
	100	3,000 psi		-20 to 250	1ZLT9
Steam Cleaner/Pressure Washer, Black					
⅜ in	30 ft	3,000 psi	⅜ in x ⅜ in	325°F	2P766
	50 ft	3,000 psi		325°F	2P767
	100 ft	3,000 psi		325°F	3JT43
½ in	30 ft	2,500 psi	½ in x ½ in	325°F	4KT64
	50 ft	2,500 psi		325°F	4KT65
	100 ft	2,500 psi		325°F	4KT63

** S=Swivel*

For additional paint, go to Grainger.com and search interior paint.

Looking for a Specific Color? Here's How:

STEP 1

Identify the color type under the "Paint Color Family" column.

Example: Blues.

Paint Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.
Blues	J2138	J2146
Greens	J2139	J2147
Neutrals	J2140	J2148

STEP 2

Decide what size and finish you'll need. Then locate the item number in the table under the finish and "Item No." column.

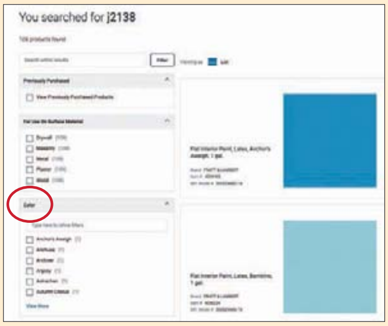
Example: J2138 – FLAT, 1 gal.

Paint Color Family	FLAT 1 gal. Item No.	FLAT 5 gal. Item No.
Blues	J2138	J2146
Greens	J2139	J2147
Neutrals	J2140	J2148

STEP 3

Search for the Item number on **Grainger.com**. Select Paint, Equipment and Supplies.

Once on that page, you will see all of the available colors.



Architectural Paint

Accolade Paint
The finest-quality paint and primer in one is 100% acrylic waterborne and features a low-VOC formula.

Fresh Spec Zero VOC Paint
Premium quality, professional low-VOC coating is GREENGUARD GOLD certified. It offers high hide, smooth application, and makes touch ups easy.

Pro-Hide Gold Ultra Paint
Best professional quality product is ideal for both residential and commercial applications.

Pro-Hide Silver 5000 Paint
Proven performance for professionals on a budget.

Economy Paint
A quality, general-use paint for high-turnover jobs.

Paint Finish Types

FLAT
Minimally reflective finish free from gloss or sheen. Meant to absorb light in order to hide imperfections.

VELVET
Soft, stain-resistant finish has low light reflectivity. Minimizes imperfections and maintains uniformity.

EGGSHELL
Low luster that noticeably reflects light.

MID-SHEEN
Very versatile with subtle gloss and average light reflectivity. Washable, scrubbable finish is burnish-resistant.

SATIN
Low luster appearance is ideal for higher traffic areas.

SEMI-GLOSS
Moderate glossy finish provides great reflectivity. Shiny finish is washable and scrubbable with excellent stain resistance.

PRATT & LAMBERT PAINTS *Never compromise*

Accolade Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides excellent coverage and hide. Washable, scrubbable paint applies smoothly with outstanding durability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

1-gal.

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	VELVET 1 gal Item No.	VELVET 5 gal Item No.	SATIN 1 gal Item No.	SATIN 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Interior Paint								
Blues	J2138	J2146	J2189	J2197	J2154	J2162	J2170	J2181
Greens	J2139	J2147	J2190	J2198	J2155	J2163	J2174	J2182
Neutrals	J2140	J2148	J2191	J2199	J2156	J2164	J2175	J2183
Oranges	J2141	J2149	J2192	J2200	J2157	J2165	J2176	J2184
Purples	J2142	J2150	J2193	J2201	J2158	J2166	J2177	J2185
Reds	J2143	J2151	J2194	J2202	J2159	J2167	J2178	J2186
Whites	J2144	J2152	J2195	J2203	J2160	—	J2179	J2187
Yellows	J2145	J2153	J2196	J2204	J2161	J2169	J2180	J2188

Paint Color Family	EGGSHELL 1 gal Item No.	EGGSHELL 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Exterior Paint				
Blues	J2106	J2114	J2122	J2130
Greens	J2107	J2115	J2123	J2131
Neutrals	J2108	J2116	J2124	J2132
Oranges	J2109	J2117	J2125	J2133
Purples	J2110	J2118	J2126	J2134
Reds	J2111	J2119	J2127	J2135
Whites	J2112	J2120	J2128	J2136
Yellows	J2113	J2121	J2129	J2137

Color	Size	Item No.
Interior/Exterior Primer		
White	1 gal	41CP46
White	5 gal	41CP45

PRATT & LAMBERT PAINTS *Never compromise*

Fresh-Spec Zero-VOC Paint

- Dry time: 1 hr. to touch, 4 hr. to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Perfect for occupational residential/commercial repaints and new construction. High hide, smooth application and excellent touch ups.

Note: All paint is nonreturnable.

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	EGGSHELL 1 gal Item No.	EGGSHELL 5 gal Item No.	SATIN 1 gal Item No.	SATIN 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Interior Paint								
Beiges	J6599	J6600	J6601	J6602	J6603	J6604	J6605	J6606
Blacks	J6607	—	J6608	—	J6609	—	J6610	—
Blues	J6611	J6612	J6613	J6614	J6615	J6616	J6617	J6618
Browns	J6619	J6620	J6621	J6622	J6623	J6624	J6625	J6626
Golds	J6627	J6628	J6629	J6630	J6631	J6632	J6633	J6634
Grays	J6635	J6636	J6637	J6638	J6639	J6640	J6641	J6642
Greens	J6643	J6644	J6645	J6646	J6647	J6648	J6649	J6650
Neutrals	J6651	J6652	J6653	J6654	J6655	J6656	J6657	J6658
Oranges	J6659	J6660	J6661	J6662	J6663	J6664	J6665	J6666
Pinks	J6667	J6668	J6669	J6670	J6671	J6672	J6673	J6674
Purples	J6675	J6676	J6677	J6678	J6679	J6680	J6681	J6682
Reds	J6683	—	J6684	J6685	J6686	J6687	J6688	J6689
Silvers	J6690	J6691	J6692	J6693	J6694	J6695	J6696	J6697
Whites	J6698	J6699	J6700	J6701	J6702	J6703	J6704	J6705
Yellows	J6706	J6707	J6708	J6709	J6710	J6711	J6712	J6713

1-gal.

For additional paint, go to Grainger.com and search interior paint.

1-gal.

PRATT & LAMBERT PAINTS *Never compromise*

Pro-Hide Gold Ultra Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides a durable, uniform finish with outstanding hide and excellent touch-up. Offers superior washability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color	1 gal Item No.	5 gal Item No.
Primers		
Primer	40TC72	40TC73
White	41CP52	41CP51

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	EGGSHELL 1 gal Item No.	EGGSHELL 5 gal Item No.	SATIN 1 gal Item No.	SATIN 5 gal Item No.	MID-SHEEN 1 gal Item No.	MID-SHEEN 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Interior Paint										
Blues	J1793	J1809	J1785	J1801	J2002	J2025	J1821	J1836	J1994	J2017
Greens	J1794	J1810	J1786	J1802	J2003	J2026	J1822	J1837	J1995	J2018
Neutrals	J1795	J1811	J1787	J1803	J2004	J2027	J1823	J1838	J1996	J2019
Oranges	J1796	J1812	J1788	J1804	J2005	J2028	J1824	J1839	J1997	J2020
Purples	J1797	J1813	J1789	J1805	J2006	J2029	J1825	J1840	J1998	J2021
Reds	J1798	J1816	J1790	J1806	J2007	J2030	J1826	J1841	J1999	J2022
Whites	J1799	J1817	J1791	J1807	J2008	J2031	J1827	J1842	J2000	J2023
Yellows	J1800	J1818	J1792	J1808	J2009	J2032	J1828	J1843	J2001	J2024

Paint Color Family	FLAT 1 gal	FLAT 5 gal	EGGSHELL 1 gal	EGGSHELL 5 gal	SEMI-GLOSS 1 gal	SEMI-GLOSS 5 gal
Exterior Paint						
Blues	39NK60	39NT09	39PL17	39MF78	39MK78	39MR37
Greens	39NK38	39NP61	39PJ76	39MF67	39MJ36	39MP99
Neutrals	39NJ79	39NT23	39PL14	39MF46	39MK77	39MP66
Oranges	39NM51	39NU57	39PM57	39MG53	39MM39	39MU25
Purples	39NL58	39NU01	39PM12	39MG59	39ML92	39MT82
Reds	39NM03	39NU09	39PM11	39MG61	39ML55	39MT89
Whites	39NJ96	39NR03	39PK16	39PR22	39MJ77	39MP83
Yellows	39NH64	39NN80	39PH82	39MH42	39MH92	39MP08

1-gal.

Pro-Hide Silver 5000 Paint

PRATT & LAMBERT PAINTS *Never compromise*

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Offers good hide characteristics with a smooth and uniform finish. Use on properly prepared drywall plaster, masonry, wood, primed metal, and previously painted surfaces on residential and commercial applications.

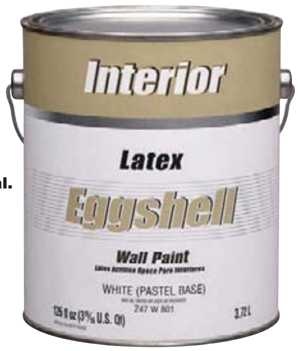
Note: All paint is nonreturnable.

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	EGGSHELL 1 gal Item No.	EGGSHELL 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Interior Paint						
Blues	J1922	J1938	J1914	J1930	J1850	J1858
Greens	J1923	J1939	J1915	J1931	J1851	J1859
Neutrals	J1924	J1940	J1916	J1932	J1852	J1860
Oranges	J1925	J1941	J1917	J1933	J1853	J1861
Purples	J1926	J1942	J1918	J1934	J1854	J1862
Reds	J1927	J1943	J1919	J1935	J1855	J1863
Whites	J1928	J1944	J1920	J1936	J1856	J1864
Yellows	J1929	J1945	J1921	J1937	J1857	J1865

Color	1 gal Item No.	5 gal Item No.
Interior Primer		
White	41CP48	41CP47
Interior/Exterior Interior High Build Paint		
Off White	—	41CP55

Paint Color Family	FLAT 5 gal Item No.
Interior Ceiling Paint	
Blues	J1906
Greens	J1907
Neutrals	J1908
Oranges	J1909
Purples	J1910
Reds	J1911
Whites	J1912
Yellows	J1913

Paint Color Family	EGGSHELL 5 gal Item No.
Interior High Build Paints	
Blues	J1866
Greens	J1867
Neutrals	J1868
Oranges	J1869
Purples	J1870
Reds	J1871
Whites	J1872
Yellows	J1873



1-gal.

PRATT & LAMBERT PAINTS *Never compromise*

Economy Paint

- Dry time: 30 min. to touch, 4 hours to recoat
- Coverage: 400 sq. ft./gal.
- VOC content: <50 g/L

Provides average hide and durability. Use on properly prepared drywall, plaster, masonry, wood, metal, and previously painted surfaces.

Note: All paint is nonreturnable.

Color	1 gal Item No.	5 gal Item No.
Primers		
Primer	40TC72	40TC73

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	EGGSHELL 1 gal Item No.	EGGSHELL 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Interior Paint						
Blues	J2066	J2090	J2058	J2082	J2074	J2098
Greens	J2067	J2091	J2059	J2083	J2075	J2099
Neutrals	J2068	J2092	J2060	J2084	J2076	J2100
Oranges	J2069	J2093	J2061	J2085	J2077	J2101
Purples	J2070	J2094	J2062	J2086	J2078	J2102
Reds	J2071	J2095	J2063	J2087	J2079	J2103
Whites	J2072	J2096	J2064	J2088	J2080	J2104
Yellows	J2073	J2097	J2065	J2089	J2081	J2105

Paint Color Family	FLAT 1 gal Item No.	FLAT 5 gal Item No.	SEMI-GLOSS 1 gal Item No.	SEMI-GLOSS 5 gal Item No.
Exterior Paint				
Whites	40TC74	40TC75	40TC76	40TC77

For additional paint, go to Grainger.com and search interior paint.

Drywall Repair

Use with gypsum, drywall, nailheads, corner beads, wood, plastic, brick, plaster, metal, stucco, masonry, and concrete.

COMPOUNDS

DryDex Premium Lightweight Joint Compound—Features dry time indicator. Compound goes on pink, dries white.

Lightweight Wallboard Joint Compound—Ready-mixed lightweight formula.

DAP FASTPATCH 30 Patching Compound Powder —Multipurpose formula resists impacts, shrinking, and cracking. Can be painted without priming.

SPACKLING

DryDex Spackling—Dry-time indicator goes on pink and dries white.

Vinyl Interior Spackling—Resists cracking and crumbling.

Fast n' Final Lightweight Spackling - Interior/Exterior—1-step interior/exterior formula requires no sanding. White color. Lightweight.

10L498

PATCHING

ElastoPatch Flexible Patching Compound—Permanently eliminates recurring cracks.

Presto Patch Ready-Mixed Multi-Purpose Patching Compound—Ready mixed patching compound for filling, leveling, and patching holes.

All-Purpose Stucco Patch—Blends naturally with existing stucco. Interior and exterior use.

Wood Filler—Fills small holes and cracks in interior and exterior surfaces. Adheres to stucco, plaster, drywall, and wood.

Plaster of Paris—For patching and repairing large holes in interior plaster or wallboard.

Patching Plaster—For major repairs on interior plaster or wallboard surfaces.

Description	Size	Dry Time	Item No.	
Compounds				
DryDex Premium Lightweight Joint Compound	1 gal	Varies	10L498	
Lightweight Wallboard Joint Compound	1 gal	24 hr	2GKY6	*
Lightweight Wallboard Joint Compound	3 lb	24 hr	2GKY7	*
DAP FASTPATCH 30 Patching Compound Powder	3.5 lb	Varies	29RU97	
Spackling				
DryDex Spackling	1 qt	5 hr	2GKY9	*
Vinyl Interior Spackling	1 qt	5 hr	5E110	
Fast n' Final Lightweight Spackling - Interior/Exterior	1 qt	Varies	5E113	
Patching				
ElastoPatch Smooth Flexible Patching Compound	1 qt	3 hr	2GKZ6	*
ElastoPatch Textured Flexible Patching Compound	1 qt	3 hr	2GKZ7	*
Presto Patch Ready-Mixed Multipurpose Patching Compound	1 gal	5 hr	2GLA7	*
All-Purpose Stucco Patch	1 gal	36 hr	2GKZ5	*
Wood Filler	1 qt	48 hr	54PC56	
Plaster of Paris	4 lb	72 hr	10L526	
Plaster of Paris	8 lb	72 hr	10L527	
Patching Plaster	32 oz	5 hr	10L528	

Color	1 gal Item No.	5 gal Item No.
Primers		
Primer	40TC72	40TC73

** VOC compliant.*

Rust Tough and Rust Tough 250 Primer and Paint

- VOC content: < 250 g/L

Corrosion-resistant, direct-to-metal alkyd enamel. Protects against mild chemicals, fumes, oil, and grease stains. Excellent hide, color, and gloss retention. Superior chip, crack, and peel resistance. Rust Tough 250 performs like a traditional alkyd enamel. For use in moderate to severe industrial environments and is acceptable for use in federally inspected meat and poultry plants.

J5605

▶CHOOSE: Color	Finish	Size	Item No.
Rust Tough Paint			
Black, White, Light Machinery Gray, Safety Orange, Safety Red, Safety Yellow, White Base	Gloss	1 gal	J5606
Rust Tough 250 Primer			
Gray, Red Oxide	Gloss	1 gal	J5604
Rust Tough 250 Paint			
Black, Dark Machinery Gray, OSHA Equipment Yellow, Light Machinery Gray, Safety Blue, OSHA Safety Red, Safety Yellow, White	Gloss	1 gal	J5605

Tough Coat and Tough Coat Quik-Dry Paint

Multipurpose alkyd gloss enamel designed for new construction and industrial maintenance applications. For interior and exterior applications. Dries fast and allows equipment to be placed back in service quickly. Chip and flake resistant. Tough Coat Quik-Dry is ideal for industrial, OEM and metal fabrication. Air dries within 15 min.

J5607

▶CHOOSE: Color	Finish	Size	Item No.
Tough Coat Paint			
Black, Aluminum, Safety Orange, Safety Red, Safety Yellow, White	Gloss	1 gal	J5607
Safety Yellow	Gloss	5 gal	J5607
Tough Coat Quik-Dry Paint			
Black, International Harvester Red, Machine White, White Base	Flat, High Gloss	1 gal	J5608

Industrial Primer

Heavy-duty primer offers good protection for steel in normal industrial environments. Industrial Primer is for interior and exterior use. Easy to apply by spray. Fast drying. Can be topcoated with alkyd and latex coatings. Weld-Thru Primer is rust inhibitive and designed for shop-priming structural steel. Excellent choice for where harsh environments put heavy performance demands on a shop-applied primer. May be welded through with no effect on the weld's integrity.

▶CHOOSE: Color	Finish	Size	Item No.
Industrial Primer			
Gray, Red	Flat	1 gal	J5609
Weld-Thru Primer			
Black, Gray, Red	Flat	1 gal	J1475

J5609

ZINSSER

Bulls Eye 1-2-3 Water-Based Primer-Sealer Stain-Blocker

- Low odor
- Mold and mildew resistant

Size	VOC Content	Dry Time Recoat	Coverage	Mfr. Model	Item No.
1 gal	Less Than 100g/L	1 hr	350 to 450 sq ft/gal	2001	**4HFD3**

4HFC3

ZINSSER

B-I-N Shellac-Based Primer-Ultimate Stain Blocker

- VOC content: <550 g/L

Nontoxic, hypoallergenic film stops bleeding knots and sap streaks. No sanding required.

Net Weight	Dry Time Recoat	Coverage	Mfr. Model	Item No.
13 oz	30 min	10 to 12 sq ft/gal	1008	**4HFC5**
10.9 lb	15 to 20 min	500 sq ft/gal	901	**4HFC3**

4CY28

4CY29

RUST-OLEUM BRANDS

Sierra Water-Based Acrylic Enamel and Primer

Fast-drying, water-based acrylic system has low solvent odor and 0 VOCs and HAPs content. Provide excellent blocking resistance, is washable, and protects against corrosion. For interior and exterior applications.

Note: All paint is nonreturnable.

DRY TIME AND COVERAGE	Beyond Satin	Beyond Gloss	Griptec
Dry Time:	30 min	30 min	30 min
Coverage:	135 to 490 sq ft/gal	165 to 520 sq ft/gal	180 to 545 sq ft/gal

Color	BEYOND SATIN Item No.	BEYOND GLOSS Item No.
Sierra Performance Finishes (1-gal. Can)		
White Pastel	**4CY29**	**4CY31**
White	**1TBF5**	**1TBF4**
Black	**4CY30**	**4CY32**
Clear	**4CY43**	**4CY44**
Navy Gray	—	**1TBF6**
Safety Blue	—	**1TBF7**
Safety Red	—	**4CY45**
Safety Yellow	—	**4CY46**

Color	Item No.
Sierra Performance Griptec Primers (1-gal. Can)	
White	**4CY28**
Gray	**21CJ87**

4HFE3

4HFD7

ZINSSER

PERMA-WHITE Mold & Mildew Proof Latex Acrylic Paint

- Low odor

Self-priming paint forms a washable coating that contains a mildewcide to prevent the growth of mold and mildew on the paint film only. Moisture-and-stain resistant. 4HFD7 is a noncorrosive interior sealer that goes on white and dries clear to form a tough, durable overcoat. Exterior paint have a washable finish that withstands moisture and resists dirt pickup.

DRY TIME AND COVERAGE	Interior Paint	Exterior Paint	Sealer
VOC Content:	<50g/L	Less Than 150g/L	Less Than 100g/L
Dry Time:	2 hr.	30 min	30 min
Coverage:	300 to 400 sq. ft./gal.	300 to 400 sq ft/gal	300 to 400 sq ft/gal

Color	Finish	Size	INTERIOR Item No.	EXTERIOR Item No.
PERMA-WHITE Paint				
White	Eggshell	1 gal	**4HFE3**	—
	Satin	1 gal	**4HFD9**	**4FZX6**
	Satin	5 gal	—	**4FZX7**
	Semi-Gloss	1 gal	**4HFE2**	**4FZX4**
	Semi-Gloss	5 gal	—	**4FZX5**
PERMA-GUARD Sealer				
Clear	—	1 gal	**4HFD7**	—

4HFF2

ZINSSER

Waterproofing Paint

- Low odor
- Interior/exterior

Solvent-based paint stops up to 34-lb. of water pressure. Prevents recurring efflorescence. Prevents growth of mold and mildew on paint film.

DRY TIME AND COVERAGE	
VOC Content:	Less Than 400g/L
Dry Time:	1 hr.
Coverage:	75 to 100 sq ft/gal

Color	Size	Item No.
Bright White	1 gal	**4HFF2**
Bright White	3 gal	**4HFF3**

HVAC & Mold Resistant Coatings

- Surface texture: porous, smooth

General Purpose—Developed for high moisture areas, mold-resistant primers and sealers form a dehydrated finish that does not allow moisture penetration. The finish minimizes nutrients that feed mold colonies.

Fungicidal & Mold—The high viscosity provides maximum bridging ability on insulating materials and reduces sagging and dripping on vertical or top surfaces. The finish minimizes nutrients that feed mold colonies.

Mold-Inhibiting—Designed for use in ductwork. These sealants dry to form durable, flexible, and moisture-resistant protective coatings.

General Purpose
9UCG9

Fungicidal & Mold
9GG95

Mold-Inhibiting
8UR48

Use Location	Base Type	Color	Coverage Area	Container Size	Container Type	Dry Time	Brand	Item No.
General Purpose Mold Resistant Primers & Sealers								
Exterior, Interior	Solvent	White	100 to 125 sq ft/gal	1 gal	Can	2 hr	Zinsser	**30FX99**
	Solvent	White	100 to 125 sq ft/gal	3 gal	Pail	2 hr	Zinsser	**30FY01**
	Solvent	White	100 to 125 sq ft/gal	5 gal	Pail	2 hr	Zinsser	**30FY02**
Interior	Water	Black	200 to 300 sq ft/gal (Porous Surface), 400 to 450 sq ft/gal (Smooth Surface)	5 gal	Pail	1 hr	Fiberlock Tech.	**8N791**
	Water	Clear	250 to 300 sq ft/gal (Porous Surface), 350 to 600 sq ft/gal (Smooth Surface)	5 gal	Pail	1 hr	Fiberlock Tech.	**9UCG9**
	Water	White	150 to 400 sq ft/gal (Porous Surface), 250 to 400 sq ft/gal (Smooth Surface)	5 gal	Pail	1 hr	Fiberlock Tech.	**8CKV2**
Fungicidal & Mold Resistant Coatings								
Interior	—	White	150 to 300 sq ft/gal (Porous Surface), 250 to 400 sq ft/gal (Smooth Surface)	1 gal	Can	1 hr	—	**8F328**
	—	White	150 to 300 sq ft/gal (Porous Surface), 250 to 400 sq ft/gal (Smooth Surface)	5 gal	Pail	1 hr	—	**9GG95**
Mold-Inhibiting HVAC Sealant								
Interior	—	Black	75 to 175 sq ft/gal (Porous Surface), 200 to 600 sq ft/gal (Smooth Surface)	5 gal	Pail	1 to 2 hr	Fiberlock Tech.	**8Y601**
	—	White	100 to 200 sq ft/gal (Smooth Surface)	5 gal	Pail	1 to 2 hr	Fiberlock Tech.	**8UR48**

H7164

High Performance Speedy-Dry Direct-to-Metal Water-Based Acrylic Enamel

- 3100 system

Fast-dry formula for applications where minimal downtime is critical. Excellent gloss retention and corrosion resistance.

DRY TIME AND COVERAGE	Primer	Paint
Dry Time:	1 to 1½ hr.	1 to 1 ½ hr
Coverage:	220 to 380 sq. ft./gal.	200 to 350 sq ft/gal
VOC Content:	<250g/L	<250 g/L

▶CHOOSE: Color	▶CHOOSE: Finish	Item No.
Speedy-Dry Primer (1-gal. Can)		
Gray	—	**1D460**
Speedy-Dry Paint (1-gal. Can)		
Alumi-NON(R), Black, Safety Blue, Safety Yellow, White	Semi-Gloss, High Gloss	**H7164**
Speedy-Dry Paint (5-gal. Can)		
Safety Yellow	High Gloss	**6DNX3**

H7174

Commercial Direct-to-Metal Water-Based Acrylic Enamel

- 5200 system

Multipurpose coating with minimal odor resists chalking and fading. Durable enough to withstand mild chemical fumes and spills.

▶CHOOSE: Color	▶CHOOSE: Finish	Dry Time	Coverage (sq. ft./gal.)	VOC Content	Item No.
Paint (1-gal. Can)					
Black, Bronzetone, Fire Hydrant Red, Machine Tool Gray, Navy Gray, Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Gray, White	High Gloss, Eggshell, Semi-Gloss, Flat	1 to 2 hr	150 to 260 sq ft/gal	< 250g/L	**H7174**
Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow	Satin	2 to 4 hr	165 to 260 sq ft/gal	< 250g/L	**J5694**
Primer (1-gal. Can)					
Gray, Red	—	1 to 2 hr	250 to 350 sq ft/gal	< 100g/L	**H7176**
Satin Paint (5-gal. Pail)					
Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow	Satin	1 to 2 hr	582 to 625 sq ft/gal	< 220g/L	**J0448**

Rust Reformer Rust Converter

- 3575 and V2100 systems

Chemically transforms rust on metal surfaces into a tough barrier against further corrosion in 1 step.

DRY TIME AND COVERAGE	3575 System	V2100 System
Dry Time:	20 to 40 min	1 to 2 hr
Coverage:	590 to 1175 sq ft/gal	14 sq ft/gal
VOC Content:	<45g/L	<60g/L

Description	Color	Size	Item No.
Rust Reformer (3575 System)	Black	1 gal	**5W181**
Rust Reformer Aerosol (V2100 System)	Black	15 oz	**5HE25**

5W181

5HE25

RUST-OLEUM BRANDS

Heavy-Duty High Performance Direct-to-Metal Alkyd Enamel

- 7400 and V7400 systems

Offer excellent 1-coat coverage with durable finishes. Protect against rust, corrosion, chemicals, oil, chipping, cracking, and peeling. Good color and gloss retention.

SURFACES: Metal and steel

H7153

DRY TIME AND COVERAGE

	Dry Time	Coverage	VOC Content
7400 System Primer			
Heavy-Duty	5 to 10 hr	310 to 520 sq ft/gal	<338g/L
Quick Dry Red	1 to 2 hr	290 to 585 sq ft/gal	<450g/L
Quick Dry Gray	1 to 2 hr	300 to 600 sq ft/gal	<450g/L
7400 System Paint			
High Gloss	5 to 9 hr	230 to 390 sq ft/gal	<450g/L
Semi-Gloss	5 to 9 hr	235 to 410 sq ft/gal	<450g/L
Flat	5 to 9 hr	255 to 435 sq ft/gal	<450g/L
Metallic	2 to 4 hr.	200 to 530 sq ft/gal	<500g/L
V7400 System Primer			
Fast Recoat	4 to 5 hr	300 to 550 sq ft/gal	<340g/L
V7400 System Paint			
High Gloss	4 to 8 hr	230 to 450 sq ft/gal	<340g/L
Semi-Gloss	4 to 8 hr	230 to 450 sq ft/gal	<340g/L
Flat	4 to 8 hr	275 to 510 sq ft/gal	<340g/L
Metallic	5 to 9 hr	330 to 530 sq ft/gal	<500g/L

▶CHOOSE: Color Family: See Grainger.com for exact color	7400 SYSTEM Item No.	V7400 SYSTEM Item No.
Primers (1-gal. Cans)		
Heavy-Duty Gray	**H7156**	—
Quick-Dry Red, Quick-Dry Gray	**H7155**	—
Fast Recoat Gray Primer, Fast Recoat Red Primer, Fast Recoat White Primer	—	**H7159**
Paint (1-gal. Cans)		
Whites, Blacks, Grays, Blues, Reds, Greens, Browns, Yellows, Oranges	**H7153**	—
Browns, Aluminum / Metallic, Clears, Reds, Blacks, Whites, Greens, Oranges, Grays, Blues, Yellows	—	**H7157**
Paint (5-gal. Cans)		
Blues, Browns, Grays, Greens, Whites, Yellows	**H7154**	—
Reds, Greens, Blacks, Whites, Blues, Grays, Yellows	—	**H7158**

RUST-OLEUM BRANDS

Commercial Direct-To-Metal Alkyd Enamel

- C740 and CV740 systems

Ready-to-use, high-hide formula is for everyday and provides rust protection. Provide good, fast-drying metal protection against corrosion, chipping, fading, peeling, wear, abrasion, and are easy-to-maintain.

SURFACES: Metal, steel

H7178

DRY TIME AND COVERAGE

	C740 Paint	CV740 Primer	CV740 Paint
Dry Time:	8 to 12 hr	8 to 12 hr	8 to 12 hr
Coverage:	265 to 440 sq ft/gal	300 to 650 sq ft	255 to 435 sq ft/gal
VOC Content:	<400g/L	<100g/L	<100g/L

▶CHOOSE: Color	Finish	Item No.
C740 System		
Interior/Exterior Paint (1-gal. Cans)		
Safety Yellow	Gloss	**6DNV6**
CV740 System		
Primer (1-gal. Cans)		
Red, White	Flat	**H7179**
Interior/Exterior Paint (1-gal. Cans)		
Silver Gray, Dunes Tan, Safety Blue, Black, Navy Gray, White, Safety Red, Safety Yellow	Gloss	**H7178**
Black	Flat	**H7178**

KRYLON INDUSTRIAL

Iron Guard Interior/Exterior Paint

Paint is suitable for use on steel, aluminum, galvanizing, concrete, masonry, wood, and zinc-rich primers. Apply with a brush, roll, or airless conventional spray.

3VZH8

Color	Size	Paint Base Type	Finish	Coverage	VOC Content	Dry Time Recoat	Item No.
Safety Orange	1 gal	Water	Gloss	218 to 136 sq ft/gal	Less Than 100g/L	4 hr	**3VZH8**
White	1 gal	Water	Gloss	218 to 136 sq ft/gal	Less Than 100g/L	4 hr	**3VZG5**

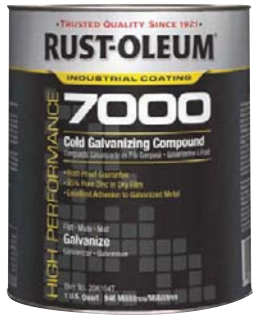
RUST-OLEUM BRANDS

High Performance Cold Galvanizing Compound

- 7000 system
- Dry time: 1 to 2 hr.
- Coverage: 310 to 440 sq. ft./gal.
- VOC content: <500 g/L

Contains 95% pure zinc for ultimate galvanic protection. Excellent adhesion to galvanized metal for maximum corrosion protection.

SURFACES: Bare sheet metal, production welds, galvanized metal



3BU17

Color	Size	Item No.
Gray	1 qt	**3BU17**
Gray	1 gal	**3BU16**

RUST-OLEUM BRANDS

High Performance Food and Beverage Alkyd Enamel

- 8400 and V8400 systems

For use where resistance to constant humidity and repeated scrubbing with detergents is desired. Help prevent mold and mildew growth in the dried paint film. Suitable for food processing plants, shower and locker rooms, freshwater and wastewater treatment plants, tanneries, and laundries. Can be applied to surfaces as cold as 18°F.

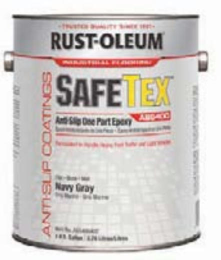
SURFACES: Metal and wood

6A396

DRY TIME AND COVERAGE

	8400 System Primer	8400 System Paint	V8400 System Primer	V8400 System Paint
Dry Time:	4 to 6 hr	4 to 6 hr	4 to 5 hr	4 to 8 hr
Coverage:	220 to 380 sq ft/gal	265 to 575 sq ft/gal	330 to 550 sq ft/gal	250 to 425 sq ft/gal
VOC Content:	201g/L	Less Than 450g/L	<340g/L	Less Than 340g/L

Description	Item No.
8400 System Food/Beverage Coating (1-gal. Can)	
Gloss White Primer	**6A395**
High Gloss Dairy White Paint	**6A396**
V8400 System Food/Beverage Coating (1-gal. Can)	
Flat White Primer	**10Z891**
High Gloss Dairy White Paint	**10Z892**
Safety Yellow Paint	**40N163**



Single Component
H7192

Multi Component
6KP54

Multi Component
2NU54

Pre Packaged Kit
H7188

Epoxy Primers Activators & Base Coatings

RUST-OLEUM BRANDS

Epoxy floor coatings apply to surfaces in commercial shops, garages, labs, factories, building lobbies, and similar settings to protect them from damage or adapt them for specific environments.

Single Component Epoxy Systems are latex acrylic floor paints with a small addition of epoxy, which air dries like a traditional paint. They do not require a separate activator base or primer.

Multi Component Epoxy Systems are two-part epoxy floor coatings that require separate cans for primer, activator and base (see Grainger.com for additional bases) that cure by a reaction when parts are mixed. Used for large scale, quick applications in medium duty environments.

Pre Packaged Epoxy Component Kits are designed to cover predetermined sizes of floors. Kits commonly contain quantities of polymer, pigment, and epoxy flakes to apply a non-skid surface to floors and walkways. These kits are commonly used on garage floors of all types where a quick turn-around, durable system is required.

Activator, Base, Paint or Primer	Coating Application	Base Type	Surface	Surface Material	▶CHOOSE: Finish	▶CHOOSE: Color	Coverage Area	Container Size	▶CHOOSE: VOC Content	Dry Time	Item No.
Single Component Epoxy Systems											
AS5400 Concrete Saver											
Base	—	Water	Rough, Smooth	Concrete, Metal	Anti-Slip, Flat, Textured	Navy Gray, Silver Gray, Dunes Tan, Tile Red, Safety Yellow, Black	40 to 50 sq ft/gal	1 gal	335 g/L, 334 g/L, 340 g/L, 333 g/L, 339 g/L, 337 g/L	24 hr	**H7192**
Multi Component Epoxy Systems											
Concrete Saver 6500											
Activator	Low VOC	Solvent	Rough	Concrete	—	Clear	100 to 300 sq ft/gal	1 gal	Less Than 100 g/L	10 to 72 hr	**6KP54**
Base	Low VOC	Solvent	Rough	Concrete	—	Clear	100 to 300 sq ft/gal	1 gal	Less Than 100 g/L	10 to 72 hr	**6KP55**
9100											
Activator	Fast Cure	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Clear	115 to 190 sq ft/gal	1 gal	340 g/L	6 to 8 hr	**2NU54**
	Fast Cure	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	—	Clear	115 to 190 sq ft/gal	1 gal	250 g/L	2 to 4 hr	**2NU65**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Clear	125 to 225 sq ft/gal	1 gal	340 g/L	8 to 14 hr	**5A275**
	Immersion	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	—	Clear	130 to 220 sq ft/gal	1 gal	250 g/L	8 to 14 hr	**4TE22**
	Immersion	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Clear	100 to 175 sq ft/gal	1 gal	340 g/L	8 to 14 hr	**6H237**
	Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	—	Clear	130 to 220 sq ft/gal	1 gal	250 g/L	6 to 12 hr	**3BU18**
	Immersion	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	—	Clear	100 to 175 sq ft/gal	5 gal	250 g/L	8 to 14 hr	**6H238**
Base	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Silver Gray	Varies	1 gal	218 g/L	Varies	**4CH80**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Safety Red	Varies	1 gal	212 g/L	Varies	**52HZ25**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Safety Orange	Varies	1 gal	199 g/L	Varies	**52HZ26**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	White	Varies	1 gal	208 g/L	Varies	**5A276**
	Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Navy Gray	Varies	1 gal	214 g/L	Varies	**5A277**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Silver Gray	Varies	5 gal	218 g/L	Varies	**4CH79**
	Fast Cure, Immersion, Low Temperature, Standard	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Yellow	125 to 225 sq ft/gal	5 gal	218 g/L	Varies	**2NU63**
Pre Packaged Epoxy Component Kits											
Concrete Saver											
Activator, Base	—	Solvent	Rough	Concrete	High Gloss	Clear	250 to 400 sq ft/gal	1 gal	Less Than 100 g/L	48 hr	**6DNX4**
EpoxyShield											
Base	—	Solvent	Rough	Concrete	Semi-Gloss	Dunes Tan	150 to 200 sq ft/gal	2 gal	Less Than 250 g/L	4 day	**1TBG3**
6200 Concrete Saver											
Activator, Base	—	Solvent	Rough	Concrete	Semi-Gloss	Silver Gray, Dunes Tan	175 to 350 sq ft/gal	1 gal	Less Than 250 g/L	48 to 72 hr	**H7196**
9100											
Activator, Base	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Safety Red	115 to 190 sq ft/gal	1 gal	Less Than 250 g/L	6 to 14 hr	**59YE62**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Safety Red	125 to 200 sq ft/gal	1 gal	Less Than 250 g/L	16 to 26 hr	**59YE64**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Safety Orange	125 to 225 sq ft/gal	1 gal	Less Than 340 g/L	6 to 72 hr	**59JM49**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Gloss	Safety Orange	130 to 220 sq ft/gal	1 gal	Less Than 250 g/L	6 to 12 hr	**59YE55**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Safety Orange	115 to 190 sq ft/gal	1 gal	Less Than 340 g/L	4 to 10 hr	**59YE57**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Safety Orange	115 to 190 sq ft/gal	1 gal	Less Than 250 g/L	4 to 5 hr	**59YE59**
	—	Solvent	Rough, Smooth	Concrete, Galvanized Metal, Masonry, Metal, Steel	Semi-Gloss	Safety Orange	115 to 190 sq ft/gal	1 gal	Less Than 250 g/L	6 to 14 hr	**59YE63**
Sierra S60											
Activator, Base	Low VOC	Water	Rough, Smooth	Concrete, Masonry, Metal, Steel, Wood	High Gloss	Stone Gray, Safety Red, Safety Yellow, Oyster White, Black, Safety Blue	230 to 340 sq ft/gal	1 gal	Less Than 50 g/L	3 to 24 hr	**H7188**

Single Component 4YPK2

Pre Packaged Kits 19NZ14

Pre Packaged Kits K3905

CRC | RUST-OLEUM BRANDS | Florock Excellence in Polymer Flooring

Urethane Activators & Base Coatings

Urethanes have better resistance to UV rays and abrasion than epoxies but are less hard. They are well suited for use on surfaces that are exposed to sunlight.

Single Component Urethane Systems provide toughness, flexibility, abrasion resistance, and excellent UV resistance on commercial or residential floors.

Multi Component Urethane Systems are abrasion resistant and more color-retentive than epoxy coatings. These coatings can last longer and look better because the two-process application system bonds more tightly to the floor surface than single-component systems. Activator and base sold separately.

Pre Packaged Urethane Component Kits resurface concrete floors and add color to designate walkways or other markings. They are able to provide a number of performance functions such as slip resistance, chemical resistance, and abrasion resistance.

Activator, Base, Paint or Primer	Resin Type	Base Type	Surface	Series Number	Surface Material	Finish	▶CHOOSE: Color	Coverage Area	Container Size	VOC Content	Dry Time	Item No.
Single Component Urethane Systems												
CRC SEAL COAT												
Base	Urethane	Solvent	Smooth		Bus Bars, Commutator Ends, Motor Windings, PC Boards, Stator Coils, Terminals	—	Red	20 to 25 sq ft/gal	11 oz	417.4 g/L	72 hr	**4YPK2**
Base	Urethane	Solvent	Smooth		Bus Bars, Commutator Ends, Motor Windings, PC Boards, Stator Coils, Terminals	—	Clear	20 to 25 sq ft/gal	11 oz	457.8 g/L	72 hr	**4YPK3**
Multi Component Urethane Systems												
RUST-OLEUM 3300 Commercial												
Activator	Acrylic Urethane	Solvent	Rough, Smooth	3300	Concrete, Metal	High Gloss	White	260 to 620 sq ft/gal	0.11 gal	Less Than 250 g/L	5 to 9 hr	**J1514**
Base	Acrylic Urethane	Solvent	Rough, Smooth	3300	Concrete, Metal	High Gloss	Safety Yellow, Safety Blue, Safety Red	260 to 620 sq ft/gal	1 gal	Less Than 250 g/L	5 to 9 hr	**J1514**
Pre Packaged Urethane Component Kits												
FLOROCK 4700												
Activator, Base	Urethane	Solvent	Rough, Smooth	4700	Concrete	Gloss	Clear	500 sq ft/gal	4.5 gal	50 g/L	24 hr	**19NZ15**
FLOROCK 7100												
Activator, Base	Urethane	Solvent	Rough, Smooth	7100	Concrete	Gloss	Clear	500 sq ft/gal	4.5 gal	46 g/L	24 hr	**19NZ14**
RUST-OLEUM 9700 High Performance												
Activator, Base	Acrylic Polyester Urethane	Solvent	Rough, Smooth	9700	Concrete, Galvanized Metal, Metal, Steel	High Gloss	White, Crystal Clear	360 to 860 sq ft/gal	1 gal	Less Than 250 g/L	5 to 15 hr	**K3906**
RUST-OLEUM 9800 High Performance												
Activator, Base	Urethane Mastic	Solvent	Rough, Smooth	9800	Steel, Concrete, Galvanized Metal, Metal	High Gloss	Aluminum, Safety Blue, Regal Red, Black, Navy Gray, White, Safety Yellow	160 to 280 sq ft/gal	1 gal	Less Than 340 g/L	4 to 9 hr	**K3905**

1AJZ3 Wooster

RUST-OLEUM CONCRETE SAVER | H&C CONCRETE INSPIRED. | INSL-X | RUST-OLEUM BRANDS | WOOSTER PRODUCTS, INC.

Single Component Acrylic Systems

Acrylic primers are designed for use on both interior and exterior floors. They dry rapidly to a tough, alkali-resistant finish that will withstand hard wear, abrasion, grease, and strong cleaners.

Concrete Saver eliminates dusting, blocks stains, and makes floor easier to clean. Easy touch-up and recoat. Roller application.

H&C creates the look of acid stain, and penetrates into the concrete for a faux layered look. A clear coat is required.

INSL-X by Benjamin Moore helps provide a durable finish for interior or exterior applications that require extra skid resistance. It also helps fill and seal cracks, and provide resistance to abrasions and ponding water. The coating is water-reduced, which allows for easy application, fast drying, and simple clean up. It is ideal for stairs, walkways, patios, and other areas with high foot traffic.

Rust-Oleum provides numerous primers and activators including mildew-resistant paint for wood and line striping to anti-slip coatings.

Wooster anti-slip coating provides safe traction for pedestrian traffic. For use on bare wood, concrete, primed metal, asphalt, marble, stone, and other surfaces.

Activator, Base, Paint or Primer	Base Type	Coating Type	Surface	Surface Material	Finish	▶CHOOSE: Color	Coverage Area	Container Size	▶CHOOSE: VOC Content	Dry Time	Item No.
Concrete Saver											
Concrete Saver 5600											
Base	Water	Floor Sealer	Rough	Concrete	Semi-Gloss	Clear	150 to 400 sq ft/gal	1 gal	62 g/L	12 hr	**4VYH1**
H&C											
Infusion											
Paint	Water	Floor Coating	Rough, Smooth	Concrete, Masonry	Satin	Autumn Breeze, Cocoa Bean	200 sq ft/gal	1 gal	Less Than 50 g/L	4 to 6 hr	**J5611**
Paint	Water	Floor Coating	Rough, Smooth	Concrete, Masonry	Satin	Cordovan, Semi-Trans Espresso, Semi-Trans Henna, Semi-Trans Tumbled Stone	200 sq ft/gal	1 gal	Less Than 50 g/L	4 to 6 hr	**J1441**
INSL-X by Benjamin Moore											
INSL-X											
Base	Water	Anti-Slip Coating	Rough, Smooth	Asphalt, Concrete, Metal, Wood	Flat	Tintable White, Gray Pearl, Light Gray, Tile Red, Pine Green, Desert Sand, Saddle Brown	80 to 120 sq ft/gal	1 gal	133 g/L	1 to 2 hr	**J4599**

CONTINUED

CONTINUED

Single Component Acrylic Systems

Activator, Base, Paint or Primer	Base Type	Coating Type	Surface	Surface Material	Finish	▶CHOOSE: Color	Coverage Area	Container Size	▶CHOOSE: VOC Content	Dry Time	Item No.
Rust-Oleum											
Concrete Saver 5600											
Paint	Solvent	Urethane Floor Coating	Rough	Concrete	Gloss	Safety Red, Safety Orange, Safety Blue, Safety Green, Safety Yellow, White	170 to 270 sq ft/gal	1 gal	93 g/L, 80 g/L, 96 g/L, 95 g/L, 97 g/L	72 hr	**H7195**
	Water	Urethane Floor Coating	Rough	Concrete	Gloss	Silver Gray	170 to 270 sq ft/gal	1 gal	107 g/L	72 hr	**H7195**
Concrete Saver AS5600											
Base	Water	Anti-Slip Floor and Deck Coating	Rough, Smooth	Concrete, Metal	Gloss	Safety Yellow, Black, Navy Gray	70 to 125 sq ft/gal	1 gal	36 g/L, 54 g/L, 52 g/L	24 hr	**H7191**
High Performance											
Base	Solvent	Polyurethane Coating	Smooth	Metal	Semi-Gloss	Gray	12 to 13 sq ft/gal	15 oz	—	10 to 20 min	**29EK24**
High Performance 3800											
Base	Water	DTM Coating	Rough, Smooth	Concrete, Masonry, Metal, Steel	Gloss	White, Navy Gray, Black, Safety Red, Safety Yellow, Safety Green, Safety Blue, Silver Gray, Dunes Tan, Forest Green, Safety Orange	150 to 270 sq ft/gal	1 gal	Less Than 250 g/L	15 min	**J6597**
	Water	DTM Coating	Rough, Smooth	Concrete, Masonry, Metal, Steel	Gloss	White, Navy Gray, Black, Safety Red, Safety Yellow, Safety Green, Safety Blue, Silver Gray, Dunes Tan, Forest Green, Safety Orange	150 to 270 sq ft/gal	5 gal	Less Than 250 g/L	15 min	**J6598**
Industrial Choice											
	Solvent	Anti-Slip Coating	Rough, Smooth	Ceramic, Concrete, Metal, Wood	Anti-Slip	Yellow, Black, Clear	14 sq ft/can	15 oz	555 g/L, 573 g/L, 570 g/L	24 to 48 hr	**H7167**
Mathys											
Base	Water	Acrylic Elastomeric Coating	Rough, Smooth	Concrete, Metal, Steel	Satin	Off White, Blue Gray, Beige Gray, Reseda Green, White, Black, Red, Gray Green, Gravel Gray, Brown	550 sq ft/gal	5 gal	40 g/L	1 hr	**J0583**
Sierra Performance											
Base	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Gloss	Black	175 to 545 sq ft /gal	5 gal	0 g/L	30 min to 1 hr	**21CK03**
	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Gloss	Safety Yellow	175 to 545 sq ft /gal	5 gal	0 g/L	1 hr	**21CJ98**
	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Gloss	White	175 to 545 sq ft /gal	5 gal	0 g/L	1 hr	**21CJ95**
	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Gloss	White, Safety Red, Safety Yellow, Safety Blue, Navy Gray, Black, Clear	175 to 545 sq ft /gal	1 gal	0 g/L	1 hr	**H7187**
	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Semi-Gloss	Black, Safety Yellow, Safety Red	135 to 265 sq ft/gal	1 gal	Less Than 50 g/L	30 min	**F8747**
	Water	DTM Coating	Smooth	Aluminum, Galvanized Steel, Metal	Semi-Gloss	Navy Gray, White Pastel, Safety Blue	137 to 513 sq ft/gal	1 gal	Less Than 50 g/L	30 min	**F8747**
	Water	DTM Coating	Smooth	Metal	Satin	Black	135 to 265 sq ft/gal	1 gal	Less Than 50 g/L	30 min	**34UL42**
Wooster											
Safe-Stride SSA											
Base	Water	Anti-Slip Coating	Rough	Concrete, Metal, Wood	Flat	Safety Yellow	100 to 125 sq ft/gal	1 gal	VOC Free	4 hr	**2TVC5**
Unspecified											
Base	—	Anti-Slip Coating	Rough	Concrete, Metal, Wood	Flat	Black	100 to 125 sq ft/gal	1 gal	—	4 hr	**1AJZ3**
	—	Anti-Slip Coating	Rough	Concrete, Metal, Wood	Flat	Gray	100 to 125 sq ft/gal	1 gal	—	2 to 4 hr	**3JW47**

High Temperature Coatings

These coatings protect metals exposed to high heat from oxidizing, corroding, peeling, and other processes of degradation. They are commonly used to improve the thermal efficiency of heaters, furnaces, and ovens.

Aluminum J1516

Aluminum J1517

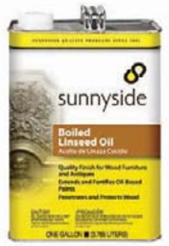
Blue 38ER23

White 55JM64

▶CHOOSE: Color	Surface Material	Use Location	Maximum Temperature Resistance	Base Type	Dry Time	Coverage Area	Container Size	Container Type	Brand	Item No.
Aluminum, Black	Metal	Exterior, Interior	400 °F	Solvent	1 to 2 hr	250 to 540 sq ft/gal	1 gal	Can	Rust-Oleum	**J1515**
	Metal	Exterior, Interior	800 °F	Solvent	1 to 2 hr	190 to 515 sq ft/gal	1 gal	Can	Rust-Oleum	**J1516**
	Metal	Exterior, Interior	1,200 °F	Solvent	1 to 2 hr	250 to 560 sq ft/gal	1 gal	Can	Rust-Oleum	**J1517**
Aluminum	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER21**
Black	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER22**
Blue	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER23**
Cast Iron	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER20**
Clear	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER32**
Green	Metal	Exterior, Interior	1,200 °F	Solvent	1 to 2 hr	7 to 8 sq ft/can	12 oz	Aerosol	Rust-Oleum	**36RD96**
Orange	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER26**
Red	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER27**
Silver	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER28**
White	Cellulose Tile, Cured Plaster, Drywall, Masonry, Metal, Wood	Interior	250 °F	Latex	30 min	150 sq ft/gal	1 gal	Can	INSL-X by Benjamin Moore	**55JM64**
	Cellulose Tile, Cured Plaster, Drywall, Masonry, Metal, Wood	Interior	250 °F	Latex	30 min	150 sq ft/gal	5 gal	Can	INSL-X by Benjamin Moore	**55JM65**
	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER29**
Yellow	Metal, Steel	Exterior, Interior	2,000 °F	Solvent	1 to 3 hr	12 sq ft/can	11 oz	Aerosol	VHT	**38ER31**

Color Additive 19NZ09

Anti-Skid Additive 6A936



Boiled Linseed Oil 44ZU21

Coating Durability Additive 30RM15

Paint Solidifier 2AJN4

Leveling & Conditioning 44ZU19

Paint Additives

- Exterior, interior use

Color Additives—Mixed into paint bases and floor coatings to tint the paint or coating to a custom color. These paint tints and coating tints enhance the beauty of painted or coated surfaces by adding color.

Anti-Skid Additives—When mixed with epoxy, latex or oil-based paints, stains, or sealers, create a skid-resistant coating for concrete, wood, metal, or fiberglass. Made from aluminum oxide, these additives are frequently used on industrial stairs, decks, and walkways.

Boiled Linseed Oil—Both a thinner for oil-based paints and a coating. As a thinner, it improves the flow and gloss of oil-based paints. As a coating, it creates a shiny hand-rubbed finish on wood and furniture. It increases wood's resistance to water-marks, scratches, and warping.

Coating Durability Additives—Traditionally used to improve pigment wetting and reduce foaming during processing. These additives improve flow and leveling and substrate wetting during application. They improve UV durability, reduce surface defects, and enhance substrate adhesion in applied coatings.

Paint Solidifiers—Turn liquid latex paint into a solid material within minutes for fast cleanup and curbside disposal. One package hardens up to two-thirds of a gallon of paint in less than an hour.

Leveling and Conditioning Additives—Add flowing or leveling properties to paint without excessively thinning or foaming. These additives are available for both oil-based and water-based paints. They slow down the drying process to ensure that brush streaks can be eliminated.

Color	Container Size	Brand	Item No.
Color Additives			
Assembly Blue	1 qt	Florock	**19NZ09**
Black	1 qt	Florock	**19NZ13**
Green	1 qt	Florock	**19NZ06**
Light Gray	1 qt	Florock	**19NZ03**
Sand Beige	1 qt	Florock	**19NZ05**
Smoke Blue	1 qt	Florock	**19NZ07**
Standard Blue	1 qt	Florock	**19NZ08**
Standard Gray	1 qt	Florock	**19NZ11**
Tile Red	1 qt	Florock	**19NZ12**
White	1 qt	Florock	**19NZ04**
White Knight Gray	1 qt	Florock	**19NZ10**

Base Type	Color	Coverage Area	Container Size	Brand	Item No.
Anti-Skid Additives					
Oil, Water	Clear	—	16 oz	H&C	**38EK69**
	Clear	—	19 lb	H&C	**38EK72**
Polypropylene	Clear	1 lb; 5 gal	1 lb	Rae	**19NZ18**
	Clear	1 lb; 5 gal	15 lb	Rae	**19NZ19**
Pumice	Off-White	0.5 pt/qt	8 oz	Rust-Oleum	**2GXE1**
Silica	Off-White	1 lb/gal	1 lb	Rust-Oleum	**6A936**
	Clear	16 oz/gal	16 oz	Homax	**29UR95**
Boiled Linseed Oils					
Oil	Amber	80 sq ft	1 gal	Sunnyside	**44ZU21**
	Amber	400 sq ft	5 gal	Sunnyside	**487F10**
Coating Durability Additives					
Aluminum Oxide	White	1 lb/gal	1 lb	Rust-Oleum	**35YJ83**
Thermoset Polymer Resin	White	0.5 lb/gal	0.5 lb	Rust-Oleum	**30RM15**
Paint Solidifiers					
Sodium Polyacrylate	Clear	⅔ gal	3.5 oz	Homax	**2AJN4**
Sodium Polyacrylate, Sodium Potassium Alumina Silicate	White	Absorbs Up to 3 gal	2 L	XSORB	**3VYZ8**
	White	Absorbs Up to 25 gal	4 gal	XSORB	**3VZA3**
	White	Absorbs Up to 38 gal	23 lb	XSORB	**21YX75**
Leveling & Conditioning Additives					
Water	Blue	2 to 6 oz/gal	1 qt	M-1	**44ZU19**

39UL63

Floor Chips

- Interior use

Decorative polymer floor flakes are specially formulated paint aggregates used to enhance the aesthetic qualities of seamless, resin-based chip/flake flooring systems. Sprinkle the chips directly onto the wet epoxy coating, then finish with a clear top coat.

Color	Coverage Area	Container Size	Item No.
Black/Blue/White	0.002 lb/sq ft	1 lb	**39UL63**
Black/Gray/White	0.002 lb/sq ft	1 lb	**39UL68**
Black/White	0.002 lb/sq ft	1 lb	**39UL66**
Blue/White	0.002 lb/sq ft	1 lb	**39UL69**

Drywall Spray Textures

A full range of wall textures for convenient, invisible repair.

2AUT7

39F173

Description	Base Type	Net Wt. (oz.)	Color	Covers (sq. ft.)	Dry Time	Item No.
Orange Peel Wall Texture	Oil	10 oz	White	50 sq ft	5 min	**2AUT7**
	Oil	20 oz	White	110 sq ft	5 min	**2AUT8**
	Oil	25 oz	White, Tinted	125 sq ft	5 min	**39F172**
	Water	16 oz	Sprays on Blue, Dries White	90 sq ft	30 min	**2AUT9**
	Water	25 oz	White, Tinted	125 sq ft	30 min	**39F173**
Knockdown Wall Texture	Water	25 oz	White, Tinted	75 sq ft	30 min	**39F174**
Popcorn Ceiling Texture	Water	14 oz	White	8 sq ft	24 hr	**45MV56**
Wall Textured Spray Patch	Water	20 oz	White	110 sq ft	30 min	**444F40**
Texture Sprayer, Hand Operated, 2.8 cu ft Hopper						**444F42**

Ceiling Aerosols

Covers Up Paint—Low-odor, vertical aerosol spray sealer and finish for drop ceilings with water, smoke, and nicotine stains. Nonyellowing flat finish.

Bondex Ceiling Patch—Ready-mixed, latex-based, low-odor patching compound duplicates the look of popcorn (acoustic) ceiling finishes; repairs blemishes, scrapes, and water damage.

4HFE7

DRY TIME AND COVERAGE

	Paint	Patch
Dry Time:	1 hr	24 to 48 hr
Coverage:	12 to 15 sq ft	†

† Dependent on ceiling aggregate.

Color	Net Wt.	Size	Item No.
Covers Up Paint			
White	13 oz	—	**4HFE7**
Bondex Ceiling Patch			
White	—	1 qt	**4HFG1**

Red Devil
RED DEVIL EQUIPMENT CO.

The Classic Electric and Air Driven Paint Shakers and Accessories

- Accommodate pints, quarts, and gallons

Multisize clamping action shakes a variety of container sizes and shapes ranging from 3½" to 11" in height. High-speed bi-axial motion ensures a complete mix and limit switch stops mixing cycle when safety enclosure is opened. Require a base, sold separately.

Style	Timer	W	D	H	Mfr. Model	Item No.
Electric Paint Shakers, 110 VV						
Single Arm Electric	15 min Manual	27 ⅞ in	29 ⅝ in	31 ½ in	141000	**6EXK4**
Single Arm Electric	1 hr Manual	27 ⅞ in	29 ⅝ in	31 ½ in	14100H	**6EXK5**
Twin Arm Electric	15 min Manual	41 ⅝ in	21 ⅝ in	31 ½ in	140000	**6EXK0**
Twin Arm Electric	1 hr Manual	41 ⅝ in	29 ⅝ in	31 ½ in	14000H	**6EXK1**
Twin Arm Electric Explosion Proof	—	41 ⅝ in	29 ⅝ in	31 ½ in	1400X1	**6EXK3**
Air Driven Paint Shakers, 8 cfm @ 100 psi						
Single Arm Pneumatic	—	27 ⅞ in	29 ⅝ in	31 ½ in	1410A1	**6EXK6**
Twin Arm Pneumatic	—	41 ⅝ in	29 ⅝ in	31 ½ in	1400A1	**6EXK2**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Counter Base for The Classic Shakers	14000H, 1400A1, 141000, 14100H, 1410A1, Mfr. No. 140000	515300	**6FWG7**

6EXK4

6EXK0

Explosion Proof 6EXK3

6EXK2

6FWG7

RADIA

Red D Mix Intrinsically-Safe Mixers

Feature gyroscopic mixing action with direct-drive gear system. No timer or power cord included; requires installation by qualified electrician.

34AU66

Accommodates	Voltage	Mfr. Model	Item No.
Gallons, Quarts (with Included Adapter)	110 V	1025X1	**6EXK7**
5 gal Pails	110 V	05025-X1	**34AU66**

Agitar Automatic Multisize Mixer

RADIA

Handles pint to 5-gal. containers (4" to 17½" high) and can mix up to 4 gal. or 9 qt. at a time. Orbital mixing aggressively shakes all types of products.

Timer	Voltage	Mfr. Model	Item No.
2 and 3 min Push Button	110 V	5995PB	**45GP38**

Agitator

BINKS

Agitator drive and cover assembly includes ½ HP air motor, one 3" stainless steel propeller and shaft, and 5-gal. stainless steel cover. Motor air supply should be 60 psi minimum and the propeller speed should be 3000 rpm maximum.

Container Size	Mfr. Model	Item No.
5 gal	31-425	**2TKP3**

14C564

6FWH0

RADIA

Paint Mixing Equipment Accessories

Description	Mfr. Model	Item No.
Counter Mount Lid Press	5080-03	**14C563**
Lid Press With Base Plate	5080-04	**14C564**
5-gal. Lid Sealer	507000	**6FWH0**
Draw Down 40-Slot Drying Tower	A3525	**6FWH2**
Magnetic Mallet Holder	A3522	**6FWH3**

Premier
3 Generations of Quality Craftsmanship

All-Steel Drum Mixers

- Heavy-gauge steel
- Can be used with portable drills and drill presses (½" chuck)
- Include cap with hole to hang

2FDJ2

24K696

Description	Head Dia.	Shaft Dia.	Shaft Length	Max. RPM	Brand	Item No.
Light-Duty Mixer	4 ⅛ in	7/16 in Hex	24½"	800 RPM	—	**2FDJ2**
Medium-Drum Mixer	4 ⅝ in	7/16 in Hex	24½"	700 RPM	—	**2FDJ3**
Heavy-Duty Mixer	4 ½ in	7/16 in Hex	24½"	500 RPM	—	**2FDJ4**
3¼" Paint Mixer	3 ¼ in	11/32 in	17"	900	Premier	**24K696**
4" Paint Mixer	4 in	13/32 in	23"	900	Premier	**24K697**
4¾" Paint Mixer	4 ¾ in	½ in	30"	900	Premier	**24K698**
Quart/Gallon Paint Mixer	2 ¼ in	¼ in	14"	900	Premier	**24K699**

5H901

RUST-OLEUM BRANDS

High Performance Rust-Preventative Industrial Spray Paints

- V2100 system
- Dry time: 1 to 2 hr.
- Coverage: Varies by color and finish

Fast-drying enamel provides excellent corrosion protection, as well as color and gloss retention. Resist chipping, cracking, and peeling. Indoor/outdoor use.

Color	Paint and Primer Finish	Net Weight	Item No.
Primers			
Gray	Flat	15 oz	5U705
Red	Flat	15 oz	5U704
White	Flat	15 oz	4CY47
Paint			
Almond	Gloss	15 oz	4TH65
Anodized Bronze	Gloss	15 oz	4CY49
Black	Flat	15 oz	2FP66
Black	High Gloss	15 oz	5H903
Black	Semi-Gloss	15 oz	4CH75
Bright Green	Gloss	15 oz	4TH63
Bright Red	Gloss	15 oz	5H901
Chestnut Brown	Gloss	15 oz	4TH67
Clear	Gloss	14 oz	4TH61
Dark Green	Gloss	15 oz	2FP63
Dark Machine Gray	Gloss	15 oz	5H905
Deep Blue	Gloss	15 oz	2FP62
Dove Gray	Gloss	15 oz	4CH76
Equipment Orange	Gloss	15 oz	4TH64
Equipment Yellow	Gloss	15 oz	2FP65
Fleet White	Gloss	15 oz	4TH68
Hunter Green	Gloss	15 oz	4CH73
Industrial Yellow	Gloss	15 oz	2FP64
Light Blue	Gloss	15 oz	4TH62
Light Machine Gray	Gloss	15 oz	5H904
Metal Black	Hammered	15 oz	4CY56
Metal Dark Bronze	Hammered	15 oz	4CY59
Metal Gold	Hammered	15 oz	4CY58
Metal Silver	Hammered	15 oz	4CY57
Safety Blue	Gloss	15 oz	5H896
Safety Green	Gloss	15 oz	5H897
Safety Orange	Gloss	15 oz	5H899
Safety Purple	Gloss	15 oz	4CH74
Safety Red	Gloss	15 oz	5H900
Safety Yellow	Gloss	15 oz	5H898
Silver Aluminum	Gloss	14 oz	2FP61
Smoke Gray	Gloss	15 oz	4CH77
Stainless Steel	Gloss	14 oz	3UP88
Tan	Gloss	15 oz	5H902
White	Flat	15 oz	5U707
White	Gloss	15 oz	5U708
White	Semi-Gloss	15 oz	4CY48

53JT40 (Drum not included)

53JT43 (Drum not included)

NEWSTRIPE INC.

53JT41

Aerosol Can Disposal Systems

Quickly punctures and drains aerosol cans, reducing the cost of hazardous waste disposal by allowing the can to be recycled. Features a built-in cycle counter. Replacement carbon filters with coalescing element. Cellulose shell and carbon media is biodegradable and decomposes naturally. 53JT42 and 53JT44 include check ball, mounting base and top.

Aerosol Recycling Can Capacity	For Use With Can Diameter	For Use With Can Height	Can Counter Included	Item No.
Aerosol Can Recycling System				
1	2 in to 3 in	Up to 10 ½ in	Yes	53JT40
1	2 in to 3 in	10 ½ in	No	436D37
3	2 in to 3 in	Up to 10 ½ in	No	53JT43

Aerosol Recycling Can Capacity	Item No.	Pkg. Qty.
Filter		
1	436D38	1
1	436D39	2
600	53JT42	1
600	53JT41	2
1,200	53JT44	1

5W180

RUST-OLEUM BRANDS

High Performance Zinc-Rich Galvanizing Compounds

- Dry time: 1 to 2 hr.
- Coverage: 14 sq. ft. for 5W909; 24 sq. ft. for 5W180

Contain up to 93% pure zinc for maximum corrosion protection. Moderate to severe environments.

Color	Paint and Primer Finish	Net Weight	Item No.
Bright Galvanized	Metallic	20 oz	5W909
Metallic Galvanized	Metallic	20 oz	5W180

1D493

RUST-OLEUM BRANDS

High-Temperature Paints

- Dry time: 1 to 2 hr.
- Coverage: 14 sq. ft.

Self-priming coatings resist temperatures up to 1000°F.

Color	Paint and Primer Finish	Net Weight	Item No.
Black	Flat	15 oz	5W179
Aluminum	Flat	15 oz	1D493

3ZHX9

RUST-OLEUM BRANDS

Spray Epoxy Primer

- Dry time: 2 hr.
- Coverage: 8 to 12 sq. ft.

High performance protection with the convenience of a no-mess spray. Ideal for priming welds, seams, and bolts.

Color	Paint and Primer Finish	Net Weight	Item No.
Gray	Flat	13.2 oz	3ZHX9
Beige	Flat	14.1 oz	3ZHY1

RUST-OLEUM BRANDS

Rebar Epoxy Aerosol Paint

- Dry time: 15 min.
- Coverage: 8 to 9 sq. ft.

One-step, direct-to-metal paint prevents rust and metal stains in concrete. Excellent corrosion and chemical resistance. For touch-up of rebar coating on the job site.

Color	Paint and Primer Finish	Net Wt.	Item No.
Green	Gloss	12 oz	23N407

RUST-OLEUM BRANDS

Galvanizing Compound Spray Paint

- 1600 system
- Dry time: 1 hr.
- Coverage: Up to 22 sq. ft.

Zinc-rich coating contains a high level of zinc providing superior galvanic protection. Dries to touch within 20 minutes and can be used on surfaces that reach temperatures up to 200°F. Touch-up or repair damaged galvanized steel, vehicles, ducts, fences, bridges, tanks, trailers and production welds.

Color	Paint and Primer Finish	Net Weight	Item No.
Galvanized Zinc	Flat	14 oz	6KP26

Enamel Maintenance Spray Paints

- Dry time: 1 hr.
- Coverage: up to 22 sq. ft.

Multipurpose paints spray at any angle. Ultra-coverage formula covers more surface faster with fewer cans, minimizing downtime and waste. Feature a comfort spray tip for reduced finger fatigue.

SURFACES: Metal, concrete, masonry, and wood

EXPOSURE: Indoor/Outdoor

USES: Tools, equipment, motors, lockers, vents, and cabinets

Color	Paint and Primer Finish	Net Weight	Item No.
Black	Semi-Flat	12 oz	**4WGC3**
Black	Ultra-Flat	12 oz	**783AD7**
Gray	Flat	12 oz	**784GN2**
Light Gray	Gloss	12 oz	**4WGD6**
OSHA Safety Blue	Gloss	12 oz	**4WGC5**
OSHA Safety Green	Gloss	12 oz	**4WGD7**
OSHA Safety Orange	Gloss	12 oz	**784GP1**
OSHA Safety Purple	Gloss	12 oz	**4WGD8**
OSHA Safety Red	Gloss	12 oz	**4WGC6**
True Blue	Gloss	12 oz	**784GN8**
White	Flat	12 oz	**783AD9**

Semi Flat Black 4WGC3 **OSHA Safety Blue 4WGC5** **OSHA Safety Orange 784GP1**

RUST-OLEUM BRANDS

Industrial Choice Enamel Spray Paints

- 1600 system
- Dry time: 1 hr.
- Coverage: 12 to 15 sq. ft.

High solids content provides faster, further coverage and resists chipping, fading, cracking and peeling. 360° angle spray with comfort tip, reducing finger fatigue.

SURFACES: Masonry, metal, wood, and concrete

EXPOSURE: Indoor/outdoor

USES: Tools, ducts, vents, ladders, cabinets, lockers, furniture and equipment VOC/MIR compliant.

Color	Paint and Primer Finish	Net Wt.	Item No.
Enamel Primers			
Black	Flat	12 oz	**6DNU5**
Gray	Flat	12 oz	**6KP23**
Red	Flat	12 oz	**6KP14**
White	Flat	12 oz	**6KP24**
Enamel Paints			
Almond	Gloss	12 oz	**6KP17**
ANSI 49 Medium Light Gray	Gloss	12 oz	**2RE52**
ANSI 61 Light Gray	Gloss	12 oz	**2RE51**
ANSI 70 Light Gray	Gloss	12 oz	**2RE53**
Banner Red	Gloss	12 oz	**6KP13**
Beige	Gloss	12 oz	**6KP16**
Black	Flat	12 oz	**6KP19**
Black	Gloss	12 oz	**6KP22**
Black	Semi-Flat	12 oz	**6KP21**
Cherry Red	Gloss	12 oz	**6KP11**
Crystal Clear	Gloss	12 oz	**6KN84**
Dove Gray	Gloss	12 oz	**6KP25**
Dull Aluminum	Gloss	12 oz	**6KN85**
Dusty Pink	Gloss	12 oz	**6YH32**
Emerald Green	Gloss	12 oz	**6DNU6**
Fluorescent Green	Gloss	12 oz	**6KN92**
Fluorescent Pink	Gloss	12 oz	**6KP08**
Fluorescent Red-Orange	Gloss	12 oz	**6KP05**
Hunter Green	Gloss	12 oz	**6KN94**
Leather Brown	Gloss	12 oz	**6KP18**
Machine Green	Gloss	12 oz	**6YH27**
Machinery Gray	Gloss	12 oz	**6YH30**
OSHA Safety Blue	Gloss	12 oz	**6KN87**
OSHA Safety Green	Gloss	12 oz	**6KN93**
OSHA Safety Orange	Gloss	12 oz	**6KP03**
OSHA Safety Purple	Gloss	12 oz	**6KP15**
OSHA Safety Red	Gloss	12 oz	**6KP09**
OSHA Safety Yellow	Gloss	12 oz	**6KN97**
Purple	Gloss	12 oz	**6DNU4**
Regal Blue	Gloss	12 oz	**6KN86**
School Bus Yellow	Gloss	12 oz	**6KN96**
Smoke Gray	Gloss	12 oz	**6KP28**
True Blue	Gloss	12 oz	**6KN89**
Universal Gray	Gloss	12 oz	**6KP27**
White	Gloss	12 oz	**6KP31**
White	Semi-Gloss	12 oz	**6DNU7**
White	Flat	12 oz	**6KP29**

6KP14 Red

6KN87 OSHA Safety Blue

DEM-KOTE SUPPLIER DIVERSITY

Dem-Kote Industrial Enamel Spray Paints

- Dry time: 1 hr.
- Coverage: 5 to 8 sq. ft.

Long-lasting gloss finish resists rust and chemicals. Use with primer on metal surfaces. VOC/MIR compliant.

SURFACES: Metal, masonry, concrete, wood

EXPOSURE: Indoor/outdoor

USES: Identification marking, handrails, stenciling, ducts, touch-up, piping, metal doors, office furniture, machinery, railings

Color	Paint and Primer Finish	Net Weight	Item No.
Primer			
Gray	Flat	10 oz	**6FGH6**
Paints			
White	Flat	10 oz	**6FGJ4**
Safety Yellow	Gloss	10 oz	**6FGJ2**
Safety Orange	Gloss	10 oz	**6FGJ5**
Safety Red	Gloss	10 oz	**6FGJ1**
Ford Blue	Gloss	10 oz	**6FGJ0**
Green (Matches John Deere)	Gloss	10 oz	**6FGJ3**
Machine Gray	Gloss	10 oz	**6FGH7**
Chrome Silver	Gloss	10 oz	**6FGH9**

6FGH7 Gloss Machine Gray

J4760

Acryli-Quik Spray Paint and Primer

KRYLON INDUSTRIAL

- Dry time: 12 min.

Feature original 5-ball formula. Provides a hard, protective, and durable finish. There is no recoat window, so you can recoat anytime. High amount of solids assures maximum coverage with excellent adhesion. Superior performance, both indoors and outdoors.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Crystal Clear Acrylic Coating			
Daisy Yellow	Gloss	12 oz	**54TG83**
Paint			
Almond, Banner Red, Black, Crystal Clear, Emerald Green, Hunter Green, Khaki Beige, Leather Brown, Pewter Gray, Pumpkin Orange, Regal Blue, Saftey Purple, Shadow Gray, Smoke Gray, Sun Yellow, True Blue, Ultra Black, White	Gloss, Semi-Flat, Ultra-Flat, Flat, Semi-Gloss	12 oz	**J1453**
Cherry Red	Gloss	12 oz	**J4760**
Primer			
Black, Gray, Ruddy Brown, White	Flat	12 oz	**J4760**

J1474

Tough Coat Spray Paint and Primer

KRYLON INDUSTRIAL

- Dry time: 15 min.

Provide protective coating that resists chipping and peeling. Specially formulated for a variety of industrial applications. Ideal for light- to heavy-duty painting projects, both indoors and outdoors.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	▶CHOOSE: Net Weight	Item No.
Paint			
Bright Red, Cherry Red, Clear, Dark Blue, Dark Machinery Gray, Fluorescent Green† , Fluorescent Orange† , Fluorescent Red† , Gold, High Heat Black‡, Implement Orange, Industrial Gray, International Harvester Red, Ivy Green, Leather Brown, Light Beige, Light Blue, Light Gray, Machinery Blue Gray, Medium Gray, Medium Green, New Caterpillar Yellow, Old Caterpillar Yellow, Red, Safety Black, Safety Green, Safety Purple, Safety White, Silver, Yellow	Gloss, Satin	12 oz, 11 oz	**J1474**
Black	Flat	12 oz	**54TJ42**
Green	Flat	12 oz	**54TJ44**
Rebar Green	Gloss	12 oz	**54TJ45**
Silver Zinc	—	12 oz	**54TJ46**
White	Flat	12 oz	**54TJ41**
Primer			
Gray	Flat	12 oz	**54TJ03**
Light Gray	Flat	12 oz	**54TJ04**
Red Oxide	Flat	12 oz	**54TJ02**
Red Oxide	Flat	12 oz	**54TJ05** *

** Sandable. † Fluorescent Orange, Red & Green only available in 11 oz.*
‡ High Heat Black only available in Satin.

J1452

KRYLON INDUSTRIAL

ColorWorks Maintenance Choice Spray Paint and Primer

- Dry time: 15 min.

Good for hiding and gloss retention. Interior/exterior use. Feature EZ Touch Fanspray nozzle.

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Paint			
Almond, Black, Cherry Red, Citrus Yellow, Clear Lacquer, Dark Machinery Gray, Emerald Green, Equipment Orange, Harvester Red, Hunter Green, Industrial Gray, Light Machinery Gray, Navy Blue, Royal Blue, Safety Blue, Safety Green, Safety Orange, Safety Red, Safety Yellow, Silver Aluminum, Sunshine Yellow, Walnut Brown, White, Zinger Pink	Gloss, Flat	11 oz	**J1452**
Primer			
Gray	Flat	11 oz	**54TH20**
Red Oxide	Flat	11 oz	**54TH21**

J1472

KRYLON INDUSTRIAL

Rust Tough Spray Paint and Primer

- Dry time: 25 min.

Direct-to-metal rust preventative formula does not require a primer. Complete coverage with one coat. Ideal for small touch-up jobs, painting irregular shapes, and covering hard-to-reach areas. For both indoor and outdoor use. Feature EZ Touch Fanspray nozzle.

▶CHOOSE: Color	Paint and Primer Finish	Net Weight	Item No.
Paint			
Black, Blue, Bright Green, Bright Red, Chestnut Brown, Dark Green, Dark Machinery Gray, Equipment Orange, Equipment Yellow, Federal Safety Yellow, Industrial Yellow, Light Machinery Gray, Safety Orange, Safety Red, Safety Yellow, White	Gloss	15 oz	**J1472**
Primer			
Gray	Flat	15 oz	**54TH95**
Gray	Gloss	15 oz	**54TH93**
Red	Flat	15 oz	**54TH94**

J4763

KRYLON INDUSTRIAL

Iron Guard Latex Paint

- Dry time: 20 min.
- Coverage: 15 to 20 sq. ft.

Provide good color retention. Not water-reducible and extremely low-odor. Soap and water clean-up when wet.

SURFACES: Metal, wood, masonry, plaster, and most plastics

EXPOSURES: Use on interior/exterior surfaces

▶CHOOSE: Color	Paint and Primer Finish	Net Weight	Item No.
Black, Cherry Red	High Gloss	12 oz	**J5812**
Black, White	Flat	12 oz	**J4763**
Satin Black, Satin White	Satin	12 oz	**J4764**

460U10

RUST-OLEUM BRANDS

H20 Pro Water-Based Aerosol

- Dry time: 24 hr.

Rust-preventative spray coating bonds to most indoor or outdoor surfaces with a long-lasting, ultra-high gloss finish. Create a smooth finish with no sags, drips, or runs.

Color	Paint and Primer Finish	Net Weight	Item No.
Almond	High Gloss	12 oz	**460U14**
Black	High Gloss	12 oz	**460U08**
Safety Blue	High Gloss	12 oz	**460U10**
Safety Green	High Gloss	12 oz	**460U12**
Safety Purple	High Gloss	12 oz	**460U11**
Safety Red	High Gloss	12 oz	**460U09**
White	High Gloss	12 oz	**460U05**

Special Purpose Spray Paint

KRYLON

Specially-formulated for unique applications and environments.

Appliance Epoxy—Chemical and stain-resistant epoxy is durable, scrubbable, and colorfast.

OSHA Paint—High-visibility safety colors. Approved by the Occupational Safety and Health Act governing board.

Metallic Paint—Dries quickly for a brilliant metallic-like finish.

High-Heat Paint—Withstands temperatures up to 1200°F intermittently, up to 600°F continuously.

Fluorescent Paint—Bright, bold neon colors for maximum visibility and safety. Increase brilliance by 200% to 400%.

Crystal Clear—Provides a tough, long-lasting protective coating.

Chalkboard Paint—Creates a slate-like chalkboard surface. Durable, long-lasting finish.

Farm and Implement—Meets manufacturers' specs for farm, vehicle, maintenance, and lawn and garden equipment.

Camouflage—Bonds to most plastics. No sanding or priming required.

Workable Fixative—Eliminates smudging, wrinkling, and gloss on paper, posters, signs. Dries in seconds to a clear, durable finish.

True Seal Protective Rubberized Coating—Dries to a flexible, rubberized seal. Stops leaks by filling cracks in openings.

NonSkid—Durable, skid-resistant paint makes surfaces safer.

Glowz Glow-in-the-Dark—Finish recharges with exposure to light.

J1466

J1455

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Appliance Epoxy			
Almond, Bisque, Black, White	Gloss	12 oz	**J1478**
OSHA Paint			
Clover Safety Green, Safety Blue, Safety Orange, Safety Purple, Safety Red, Safety Yellow	Gloss	12 oz	**J1466**
Metallic Paint			
Aluminum Metallic	Metallic	12 oz	**38EM95**
Bright Silver, Chrome Aluminum, Dull Aluminum, Silver Metallic, Brass Metallic, Bright Gold, Copper Metallic, Gold Metallic	Metallic, Gloss	11 oz	**J1465**
High-Heat Paint			
Black, White	Flat	12 oz	**J1462**
Fluorescent Paint			
Cerise, Green, Lemon Yellow, Red Orange, Yellow Orange	Gloss	11 oz	**J1460**
Crystal Clear Acrylic Coating			
Clear, Crystal Clear	Gloss	11 oz	**J1459**
Daisy Yellow	Gloss	12 oz	**54TG83**

▶CHOOSE: Color	▶CHOOSE: Paint and Primer Finish	Net Weight	Item No.
Chalkboard Paint			
Black	Flat	12 oz	**54TJ63**
Farm and Implement			
John Deere Green, Allis Chalmers Orange, Ford Blue, International Harvester Red, John Deere Yellow, Kubota Orange, Massey Ferguson Red, Yellow, Old Equipment Yellow, School Bus Yellow	High Gloss	12 oz	**J1455**
Camouflage			
Black, Brown, Khaki, Olive, Sand, Light Green	Ultra-Flat	11 oz	**J1454**
Workable Fixative			
Clear	Gloss	11 oz	**38EP62**
True Seal Protective Rubberized Coating			
Black	—	12 oz	**38EP61**
NonSkid			
Clear	Gloss	11 oz	**38EN52**
Glowz Glow In the Dark			
Green, White	Gloss	6 oz	**J1461**

RUST-OLEUM BRANDS · KRYLON INDUSTRIAL · AERVOE · RAE · SUPPLIER DIVERSITY

Striping & Marking Paints

Temporary Marking Chalks—Mark surfaces and can be cleaned away using a wire brush or power washer. Chalk allows for straight lines to be drawn on surfaces in a variety of high-visibility or standard colors when used with line reels.

Temporary Marking Paints—Designed to last approximately 30 days before being washed away by rain. These paints are ideal for roads, pavement, gravel, grass, and dirt prior to being permanently marked in the future.

Semi-Permanent Striping Paints—Used to add markings to outdoor surfaces such as concrete, pavement, grass, or gravel for up to three months of use, where permanent markings are not allowed.

Permanent Striping & Marking Paints—Create permanent markings on a surface that won't wash away.

Temporary Marking Chalk H7173

Temporary Marking Paint J1443

Semi Permanent Striping Paint 6KP12

Permanent Striping & Marking Paint 3EHH4

Paint Dispensing Style	Surface Material	Application	Formulation	▶CHOOSE: Color	Container Size	Coverage Area	Compatible Equipment	Dry Time	Brand	Item No.
Temporary Marking Chalks										
Water Base										
Inverted	Concrete, Grass, Gravel, Pavement	General Purpose	Water	Blue, Green, Orange, Red, White, Yellow	20 oz	500 to 530 Linear ft/1 ¼ in Stripe	Striping and Marking Machines	10 min	Rust-Oleum	**H7173**
Temporary Marking Paints										
Solvent Base										
Inverted	Asphalt, Brick, Concrete, Grass	General Purpose	Solvent	Fluorescent Orange, High Visibility Yellow, Red, Utility White	25 oz	864 Linear ft	Striping and Marking Machines	3 min	Krylon Industrial	**J1444**
		General Purpose	Solvent	Fluorescent Red-Orange	25 oz	864 Linear ft	Striping and Marking Machines	Greater Than 3 min	Krylon Industrial	**J1444**
	Concrete, Dirt, Grass, Gravel, Pavement	General Purpose	Alkyd	Clear	20 oz	300 to 350 Linear ft/1 ½ in Stripe	Striping and Marking Machines	Less Than 5 min	Rust-Oleum	**1PTH3**
		General Purpose	Alkyd	Fluorescent Red-Orange	20 oz	300 to 350 Linear ft/1 ½ in Stripe	Striping and Marking Machines	Less Than 5 min	Rust-Oleum	**H7151**
	Concrete, Grass, Masonry	General Purpose	Solvent	APWA Blue, APWA Red, Asphalt Black, Blue, Clear, Flouroscent Safety Red, Fluorescent Green, Fluorescent Hot Pink, Fluorescent Purple, Green, High Visibility Yellow, Safety Yellow, Silver, Utility White	20 oz	468 Linear ft	Striping and Marking Machines	3 min	Krylon Industrial	**J1443**
		General Purpose	Solvent	Bright Orange, Fluorescent Orange	17 oz	468 Linear ft	Striping and Marking Machines	3 min	Krylon Industrial	**J1443**
		General Purpose	Solvent	Fluorescent Red-Orange	20 oz	664 Linear ft/1 in Stripe	Striping and Marking Machines	Greater Than 3 min	Krylon Industrial	**J1443**

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RUST-OLEUM BRANDS · KRYLON INDUSTRIAL · AERVOE · RAE · SUPPLIER DIVERSITY

Striping & Marking Paints

Paint Dispensing Style	Surface Material	Application	Formulation	▶CHOOSE: Color	Container Size	Coverage Area	Compatible Equipment	Dry Time	Brand	Item No.
Temporary Marking Paints (Cont.)										
Solvent Base (Cont.)										
Overhead	Wood	Tree Marking	Alkyd	Blue	16 oz	279 sq ft/can	Striping and Marking Machines	1 to 5 hr	Aervoe	**8TJ49**
Overhead	Wood	Tree Marking	Alkyd	Fluorescent Pink	16 oz	279 sq ft/can	Striping and Marking Machines	1 to 5 hr	Aervoe	**8PEV5**
Overhead	Wood	Tree Marking	Alkyd	Orange	16 oz	23 sq ft/can	Striping and Marking Machines	5 min	Aervoe	**8CEA9**
Water Base										
Inverted	Asphalt, Brick, Concrete, Grass	General Purpose	Modified Alkyd	Blue, Brilliant Red, Brilliant White, Clear, Fluorescent Caution Blue, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Fluorescent Purple, Fluorescent Red-Orange, Fluorescent Safety Red, Green, High Visibility Yellow, Orange, Utility Yellow	20 oz	664 Linear ft/1 in Stripe	Striping and Marking Machines	Greater Than 10 min	Krylon Industrial	**J1446**
Inverted	Asphalt, Concrete, Dirt, Grass, Gravel, Pavement	Construction	Water	Caution Blue, Clear, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Fluorescent Red-Orange, High Visibility Yellow, Safety Red, White	20 oz	400 Linear ft/1 in Stripe	Spray Guns, Striping and Marking Machines	Less Than 5 min	Rust-Oleum	**H7170**
Inverted	Asphalt, Concrete, Grass	General Purpose	Water	Brilliant Red, Brilliant White, Fluorescent Orange, Fluorescent Pink, Utility Yellow	25 oz	864 Linear ft	Striping and Marking Machines	10 min	Krylon Industrial	**J1444**
Inverted	Concrete, Grass, Gravel, Pavement	Boundary Marking	Water	Fluorescent Green, Fluorescent Orange, Orange, White, Yellow	20 oz	100 to 200 Linear ft/3 in Stripe	Striping and Marking Machines	30 min	Rust-Oleum	**H7169**
Inverted	Concrete, Grass, Gravel, Pavement	General Purpose	Alkyd	Black, Fluorescent Blue	20 oz	600 to 700 Linear ft/1 in Stripe	Striping and Marking Machines	Less Than 5 min	Rust-Oleum	**H7172**
Inverted	Concrete, Grass, Gravel, Pavement	General Purpose	Water	Alert Orange/APWA Orange, Caution Blue/APWA Blue, Clear, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Fluorescent Purple, Fluorescent Red, Fluorescent Red-Orange, High Visibility Yellow, Safety Red, White	20 oz	600 to 700 Linear ft/1 in Stripe	Striping and Marking Machines	Less Than 5 min	Rust-Oleum	**H7172**
Semi Permanent Striping Paints										
Solvent Base										
Inverted	Concrete, Grass, Gravel, Pavement	General Purpose	Alkyd	Blue	20 oz	275 to 300 Linear ft/3 in Stripe	Striping and Marking Machines, Spray Guns	Less Than 10 min	Rust-Oleum	**6A380**
Inverted	Concrete, Grass, Gravel, Pavement	General Purpose	Alkyd	Red	20 oz	150 Linear ft/4 in Stripe	Striping and Marking Machines	Less Than 10 min	Rust-Oleum	**6KP12**

Paint Dispensing Style	Surface Material	Application	Formulation	▶CHOOSE: Color	Compatible Equipment	Dry Time	Brand	1 gal Coverage Area	1 gal Item No.	5 gal Coverage Area	5 gal Item No.
Semi Permanent Striping Paints											
Water Base											
Pour	Concrete, Masonry	General Purpose	Water	Parking Lot Black	Striping and Marking Machines	30 min to 1 hr	Krylon Industrial	—	—	350 Linear ft/gal (4 in Stripe)	**38EL57**
Pour	Concrete, Masonry	General Purpose	Water	Parking Lot Blue	Striping and Marking Machines	30 min to 1 hr	Krylon Industrial	350 Linear ft/gal (4 in Stripe)	**38EL52**	—	—
Pour	Concrete, Masonry	General Purpose	Water	Parking Lot White	Striping and Marking Machines	30 min to 1 hr	Krylon Industrial	350 Linear ft/gal (4 in Stripe)	**38EL51**	350 Linear ft/gal (4 in Stripe)	**38EL55**
Pour	Concrete, Masonry	General Purpose	Water	Parking Lot Yellow	Striping and Marking Machines	30 min to 1 hr	Krylon Industrial	—	—	350 Linear ft/gal (4 in Stripe)	**38EL56**
Permanent Striping & Marking Paints											
Solvent Base											
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	Black	Spray Guns	30 to 40 min	RAE	—	—	90 sq ft/gal	**4YNY9**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	Red	Spray Guns	1 to 2 hr	RAE	420 Linear ft/4 in Stripe	**3EHH4**	420 Linear ft/gal (4 in Stripe)	**3EHH5**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	White	Spray Guns	30 min	RAE	—	—	90 sq ft/gal	**3EHG4**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	White	Spray Guns	30 to 40 min	RAE	90 sq ft/gal	**3EHG3**	90 sq ft/gal	**4YNY3**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	Yellow	Spray Guns	30 min	RAE	90 sq ft/gal	**4YNY4**	90 sq ft/gal	**4YNY5**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	Yellow	Spray Guns	30 min	RAE	420 Linear ft/4 in Stripe	**3EHG1**	420 Linear ft/gal (4 in Stripe)	**3EHG2**
Pour	Asphalt, Brick, Concrete	Traffic Zone	Alkyd	Yellow	Spray Guns	2 to 3 hr	RAE	420 Linear ft/4 in Stripe	**3EHG7**	420 Linear ft/gal (4 in Stripe)	**3EHG8**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Alkyd	Blue	Spray Guns	30 min	RAE	—	—	90 sq ft/gal	**4YNY7**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Alkyd	Red	Spray Guns	30 to 40 min	RAE	90 sq ft/gal	**4YNZ1**	90 sq ft/gal	**4YNZ2**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Alkyd	White	Spray Guns	2 to 3 hr	RAE	—	—	90 sq ft/gal	**4YNY1**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Alkyd	Yellow	Spray Guns	30 min	RAE	90 sq ft/gal	**4YNX7**	90 sq ft/gal	**4YNX8**
Water Base											
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	Black	Spray Guns	1 hr	RAE	—	—	90 sq ft/gal	**6GAN3**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	Blue	Spray Guns	1 hr	RAE	—	—	90 sq ft/gal	**6GAN4**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	Green	Spray Guns	1 hr	RAE	—	—	90 sq ft/gal	**6GAN6**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	Red	Spray Guns	1 hr	RAE	—	—	90 sq ft/gal	**6GAN5**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	White	Spray Guns	1 hr	RAE	—	—	420 Linear ft/gal (4 in Stripe)	**6GAN1**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Acrylic	Yellow	Spray Guns	1 hr	RAE	—	—	420 Linear ft/gal (4 in Stripe)	**6GAN2**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Latex	Black	Spray Guns	1 to 2 hr	RAE	90 sq ft/gal	**3EHJ3**	90 sq ft/gal	**3EHJ4**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Latex	Blue	Spray Guns	2 to 3 hr	RAE	90 sq ft/gal	**3EHH2**	90 sq ft/gal	**3EHH3**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Latex	Red	Spray Guns	1 to 2 hr	RAE	90 sq ft/gal	**3EHJ1**	90 sq ft/gal	**3EHJ2**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Latex	White	Spray Guns	1 to 2 hr	RAE	90 sq ft/gal	**3EHH8**	90 sq ft/gal	**3EHH9**
Pour	Asphalt, Brick, Concrete, Grass	Traffic Zone	Latex	Yellow	Spray Guns	1 to 2 hr	RAE	90 sq ft/gal	**3EHH6**	90 sq ft/gal	**3EHH7**
Pour	Concrete, Gravel, Pavement	Traffic Zone	Acrylic	Traffic White, Traffic Yellow, Traffic Blue, Traffic Red, Traffic Black, Bike Lane Green	Paint Brushes, Paint Rollers, Striping and Marking Machines	30 min	Rust-Oleum	250 to 450 Linear ft/4 in Stripe	**J0449**	—	—
Pour	Concrete, Masonry	Traffic Zone	Water	Parking Lot Yellow	Striping and Marking Machines	30 min to 1 hr	Krylon Industrial	350 Linear ft/gal (4 in Stripe)	**38EL53**	—	—

RUST-OLEUM BRANDS

Spray Can Handles, Paint Applicators and Striping Machines

Description	For Use With	Item No.
Spray Grip	Aerosol Spray Can	**2ERK5**
Spray Comfort Grip	Aerosol Spray Can	**2ERK6**
Marking Wand/Steel/Plastic	Rustoleum Marking Paint and Chalk	**6A379**
Marking Wand/Aluminum/Plastic	Industrial Grade Paint	**21CJ78**
Striping Wand/Plastic	Aerosol Cans	**32UT23**
Marking Pistol	Rust-Oleum Inverted Marking Paint or Industrial Choice Precision-Line Inverted Marking Paint or Chalk	**4CY42**
Striping Machine, For Use With AF1600 System	Industrial Choice Athletic Field Striping Paint to Apply Straight 3 in to 6 in Wide Lines	**4CY41**
Striping Machine, For Use With S1600 System and 2300 System	Hard Hat and Industrial Choice Striping Paint, Aerosol Striping Paints to Apply Straight 2 to 4 in Wide Lines	**6A940**

Looking for more Line Striper Machines?

We have even more Line Striper Machines on pages 1627 and 1628 and on Grainger.com®

Heat Activated Pavement Markings

Thermoplastic pavement marking paints clearly mark traffic lanes, legends, symbols, and road boundaries on roads, parking lots, and other paved surfaces. They are thicker and more wear resistant than other types of marking paints. These paints are heated and applied to paved surfaces to increase visibility and provide long-term wear.

Line rolls come in a variety of colors for varied road and pavement needs. These rolled strips can be applied to any roadway to delineate the lanes and keep traffic flowing.

Legend	Color	Overall Length	Overall Width	Thickness	Minimum Application Temperature	Maximum Application Temperature	Item No.
Pavement Pre-Determined Messages							
Handicap	Blue	38"	3-ft	90 mil	—	300 °F	**18E570**
Handicap	Blue/White	45"	45"	90 mil	—	300 °F	**18E572**
Pavement Line Rolls							
Rolls	Yellow	30-ft	4"	90 mil	32 °F	275 °F	**18E661**
Rolls	Yellow	30-ft	6"	90 mil	32 °F	275 °F	**18E667**
Rolls	Yellow	30-ft	12"	90 mil	32 °F	275 °F	**18E669**

sunnyside RUST-OLEUM BRANDS Green Envy

Paint Thinners

These liquid paint thinners reduce the viscosity of paint.

General Purpose Paint Thinners—Solvents used to thin or reduce the viscosity of paints to prepare them for spray application or to clean up after their use.

Mineral Spirits—Petroleum-derived clear liquids used as a common organic solvent in cleaning up after painting. Mineral spirits are less expensive than turpentine and thin oil-based paints, stains and varnishes.

Lacquer Thinners—A mixture of solvents able to dissolve a number of different resins or plastics used in lacquer finishes. They clean tools and equipment after a lacquer project.

Xylene Thinners—Used for thinning paints, enamels, varnishes, and alkyd resins. They are highly flammable and are recommended for ventilated or exterior use. Toluene paint removers are fast-drying solvents for thinning oil-based paints, varnishes, enamels and alkyd resins.

Xylol Thinners—Used for thinning paints, enamels, varnishes, and alkyd resins. Often specified as a thinner for specialty paints and coatings, xylene is highly flammable and is recommended for ventilated or exterior use.

Water Immersion Coatings—Protective layers that are applied to a material that will be subjected to water or liquid for an extended period of time. Thinners for immersion coatings reduce the viscosity of the coatings so that it can be spray-applied instead of brushed or rolled onto a surface. This is commonly done for surfaces that are not flat or are uneven.

General Purpose 3JR74

Mineral Spirits 5KPY3

Lacquer Thinner 5KPY2

Xylene/ Toluene 12H847

Xylol Thinner 5KPY4

Water Immersion 6H076

Materials Removed	Contains	Strength	Container Type	Container Size	Brand	Item No.
General Purpose Paint Thinners						
Oil Base Type						
Dirt, Grease	LVP Mineral Spirits	Regular	Bottle	1 gal	Sunnyside	**499H70**
Dirt, Grease	LVP Mineral Spirits	Regular	Pail	5 gal	Sunnyside	**499H58**
Solvent Base Type						
9400 System, Adhesive, Epoxy Coating, Grease, Oil, Urethane Coating	Ethyl 3-Ethoxypropionate, Ethyl Acetate, Methyl Ethyl Ketone	Regular	Can	1 gal	Rust-Oleum	**5H949**
Alkyd Coating, Epoxy Coating, VOC Compliant Products	Acetone	Regular	Can	1 gal	Rust-Oleum	**3JR74**
Alkyd Coating, Industrial Enamel, Latex Coating	n-Nonane, Naphtha, Pine oil	Regular	Can	1 gal	Rust-Oleum	**5H887**
Alkyd Coating, Latex Coating	n-Heptane, Naphtha, Octane, Pine oil	Regular	Can	1 gal	Rust-Oleum	**5A261**
Dirt, Grease	Acetone, Aliphatic Naphtha	Regular	Can	1 gal	Sunnyside	**499H54**
Paint, Solvent Based Products	Parachlorobenzotrifluoride	Regular	Can	1 gal	Rust-Oleum	**426J32**
Water Base Type						
Paint	Dipropylene Glycol Monomethyl Ether, Naphtha, p-Chloro-a,a,a-Trifluorotoluene, Sodium Dioctyl Sulfosuccinate	Regular	Bottle	1 gal	Green Envy	**5KPY0**
Mineral Spirits						
Oil Base Type						
Dirt, Grease	Mineral Spirits	Regular	Can	1 gal	Sunnyside	**5KPY3**
Dirt, Grease	Mineral Spirits	Regular	Pail	5 gal	Sunnyside	**44ZU14**

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Paint Thinners

Materials Removed	Contains	Strength	Container Type	Container Size	Brand	Item No.
Lacquer Thinners						
Solvent Base Type						
Epoxy Coating, Lacquer	2-Butoxyethanol, Acetone, Parachlorobenzotrifluoride	Regular	Can	1 gal	Sunnyside	**12H845**
Epoxy Coating, Lacquer	2-Butoxyethanol, Acetone, Parachlorobenzotrifluoride	Regular	Pail	5 gal	Sunnyside	**499H52**
Epoxy Coating, Lacquer	Acetone, Aliphatic Naphtha, Ethyl Acetate, Ethylbenzene, Methyl Alcohol, Methyl Ethyl Ketone, Toluene, Xylene	Regular	Can	1 gal	Sunnyside	**5KPY2**
Epoxy Coating, Lacquer	Acetone, Aliphatic Naphtha, Ethyl Acetate, Ethylbenzene, Methyl Alcohol, Methyl Ethyl Ketone, Toluene, Xylene	Regular	Pail	5 gal	Sunnyside	**22M494**
Xylene/Toluene						
Solvent Base Type						
Adhesive	Acetone, Parachlorobenzotrifluoride	Regular	Can	1 gal	Sunnyside	**12H847**
Paint	Cumene, Ethylbenzene, Mixed Xylenes, Toluene	Premium	Bucket	5 gal	Rae	**19NZ68**
Paint	Toluene	Premium	Bucket	5 gal	Rae	**3EHJ6**
Xylol Thinners						
Solvent Base Type						
Adhesive, Anti-Rust, Epoxy, Lacquer, Oil-Based Paint, Porch and Deck Paint, Synthetic Enamel, Varnish	Ethylbenzene	—	Can	1 gal	Sunnyside	**5KPY4**
Water Immersion Coating Thinners						
Solvent Base Type						
Epoxy Mastic, Paint	Ethylbenzene, Methyl Isobutyl Ketone, n-Butanol, Toluene, Xylene	Regular	Can	1 gal	Rust-Oleum	**6H076**

General Purpose 499H67

Acetone 44ZU11

Graffiti Remover 52JC16

Marine Paint Remover 39C320

Remaining Residue Clean Up 6KDX8

Sample Kits 35XU23

Paint Removers

General Purpose Paint & Coating Removers—Remove paint, finishes, and coatings while also cleaning the underlying surface.

Acetone—Removes oil stains from walls. It is used as a paint thinner for oil paints and resins and can be used to clean paint brushes, sprayers and other equipment used while painting.

Graffiti Removers—Emulsify and remove paint without extra cleanup. These removers dissolve aerosol paint, enamel, and lacquer from hard or porous surfaces.

Marine Paint Removers—Powerful water-soluble paint and anti-fouling strippers designed for marine uses. These removers can remove up to eight coats of paint in just one application on wood or fiberglass boats. They remove varnish and urethane from fine woods, metals, and glass.

Glaze Removers—Reduce the pH of surfaces being stripped of paint to help improve adhesion of new primer and paints. These removers neutralize surfaces covered in alkaline products or mill glazes.

Remaining Residue Clean Up—Penetrate left over layers of paint and adhesive to clean surfaces prior to painting. They remove grease and other stains to ensure a smooth paint finish.

Sample Kits—Include samples of a variety of paint removers and strippers, allowing users to test a small painted area to determine which product is best suited to remove paint for each individual project and situation.

Remover Type	Materials Removed	Product Form	Strength	Container Type	Container Size	Odorless	Brand	Item No.
General Purpose Paint & Coating Removers								
Solvent Base Type								
Paint Stripper and Remover	Epoxy Finish, Lacquer, Latex, Oil-Based Paint, Polyurethane Finish, Shellac, Varnish	Liquid	Extra-Strength	Can	1 gal	No	Sunnyside	**499H67**
Water Base Type								
Paint Stripper and Remover	Paint	Liquid	Full Strength	Bucket	1 gal	Yes	Dumond	**39C332**
Paint Stripper and Remover	Paint	Liquid	Full Strength	Bucket	1 qt	Yes	Dumond	**39C331**
Paint Stripper and Remover	Paint	Liquid	Full Strength	Bucket	5 gal	Yes	Dumond	**39C333**
Paint Stripper and Remover	Paint	Liquid	Full Strength	Bucket	5 gal	No	Dumond	**39C334**
Paint Stripper and Remover	Paint	Paper	Full Strength	Roll	13 in x 300 ft	No	Dumond	**39C319**
Paint Stripper and Remover	Paint	Paper	Full Strength	Sheets	3 x 3 ft	No	Dumond	**39C317**
Paint Stripper and Remover	Paint	Paste	Full Strength	Pail	1.25 gal	No	Dumond	**39C309**
Paint Stripper and Remover	Paint	Paste	Full Strength	Pail	5 gal	No	Dumond	**39C310**
Acetone								
Solvent Base Type								
Thinning and Cleanup Solvent	Adhesive, Epoxy Resin, Fiberglass Resin, Ink, Lacquer	Liquid	—	Can	1 gal	No	Sunnyside	**44ZU11**
Thinning and Cleanup Solvent	Adhesive, Epoxy Resin, Fiberglass Resin, Ink, Lacquer	Liquid	—	Can	1 qt	No	Sunnyside	**44ZU20**
Paint Stripper and Remover	Adhesive, Epoxy Resin, Fiberglass Resin, Ink, Lacquer	Liquid	—	Pail	5 gal	No	Sunnyside	**487F09**
Graffiti Removers								
Soy Base Type								
Paint Stripper and Remover	Graffiti	Liquid	Full Strength	Spray Bottle	22 oz	No	Dumond	**52JC16**
Water Base Type								
Paint Stripper and Remover	Graffiti	Liquid	Full Strength	Spray Bottle	22 oz	No	Dumond	**39C341**
Paint Stripper and Remover	Graffiti	Liquid	Full Strength	Bucket	5 gal	No	Dumond	**39C336**
Paint Stripper and Remover	Graffiti	Paste	Full Strength	Bucket	5 gal	No	Dumond	**39C340**
Marine Paint Removers								
Water Base Type								
Paint Stripper and Remover	Paint	Paste	Full Strength	Bucket	1 gal	No	Dumond	**39C320**
Paint Stripper and Remover	Paint	Paste	Full Strength	Bucket	5 gal	No	Dumond	**39C321**
Glaze Removers								
Powder Base Type								
Paint Stripper and Remover	Glaze	Powder	Full Strength	Packet	4 oz	No	Dumond	**39C313**
Paint Stripper and Remover	Glaze	Powder	Full Strength	Packet	8 oz	No	Dumond	**39C314**
Remaining Residue Clean Up								
Solvent Base Type								
Graffiti and Adhesive Remover	Adhesive, Paint	Aerosol	—	Aerosol	16 oz	No	Sprayon	**6KDX8**
Sample Kits								
Water Base Type								
Paint Stripper and Remover	Graffiti	Paste	Full Strength	Kit	16 oz	Yes	Watch Dog	**35XU24**
Paint Stripper and Remover	Paint	Paste	Full Strength	Kit	1.5 gal	Yes	Dumond	**35XU23**

4YLE5

4YLF4

RUST-OLEUM BRANDS

Wax & Tar Removers

- Solvent base

Effective, fast-acting liquid removers for many automotive surfaces, including metal, plastic, and fiberglass. These removers dissolve old wax build-up before re-application of new wax to promote an even, mirror-like finish. They are also used for removing grease, silicone and road film.

Flammability	Container Size	Item No.
Flammable	1 qt	**4YLE5**
Non-Flammable	13.5 oz	**4YLF4**

TOUGH GUY HARDLINE

Mastic & Decal Removers

Mastic Remover
36MV84

Decal Remover
48FW17

Mastic Remover—Penetrate through layers of mastic on a surface. The remover is absorbed into the mastic and break down its adhesion to the surface to facilitate effective and complete removal.

Decal Remover—Breaks down the adhesive while keeping the surface underneath safe. Remover works by soaking the residue, turning it into a liquid or paste form that can be wiped or scraped off the surface.

Base Type	Remover Type	Product Form	Strength	Container Size	Brand	Item No.
Mastic Remover						
Soy	Wallpaper, Adhesive, and Tar Remover	Gel	Premium	1 gal	Tough Guy	**36MV84**
Decal Remover						
Soy	Decal Adhesive Remover	Liquid	—	16 oz	Hardline Products	**48FW17**

M-1 herkules sunnyside

Paint Applicator Cleaners

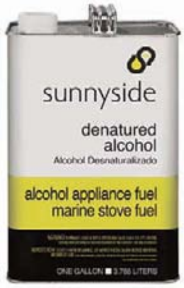
Brush & Roller Cover Cleaner—Removes hardened or dried latex and oil-based paints, enamels, shellacs, varnishes, lacquers, and polyurethanes from bristle brushes, artist brushes, and equipment after painting.

Paint Spray Gun Cleaner—Aerosol removes waterborne and solvent-based coatings from metal, plastic, and composite surfaces. Cleaner has a high-powered spray nozzle to help reduce the amount of cleaning solvent used and helps lessens cleaning time.

Denatured Alcohol—A clean-burning fuel that produces an odorless and smokeless flame used in marine stoves and other alcohol-burning appliances.

Brush & Roller Cover Cleaner
44ZU23

Paint Spray Gun Cleaner
41U087



Denatured Alcohol
20K854

Application	Base Type	Product Form	Strength	Contains	Container Size	Brand	Item No.	Pkg. Qty.
Brush & Roller Cover Cleaner								
Cleans Brushes & Rollers, Removes Latex and Oil-Based Paints/Enamels/ Shellacs/Varnishes/Lacquers	Water	Liquid	Regular	Tetrasodium Ethylenediaminetetra Acetate	1 qt	M-1	**44ZU23**	1
Paint Spray Gun Cleaner								
Paint Cleaner	Solvent	Spray	Extra-Strength	Solvent	15 oz	Herkules	**41U087**	6
Denatured Alcohol								
Alcohol Appliance Fuel, Marine Stove Fuel	Solvent	Liquid	—	Ethanol, Methanol	1 qt	Sunnyside	**20K853**	1
	Solvent	Liquid	—	Ethanol, Methanol	1 gal	Sunnyside	**20K854**	1
	Solvent	Liquid	—	Ethanol, Methanol	5 gal	Sunnyside	**44ZU09**	1

M-1 Green Envy sunnyside

Preparation Cleaning

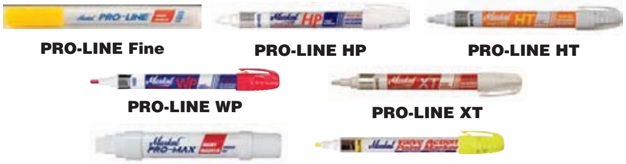
Pre-Coating Cleaner—Designed to wash down walls, window/door frames, floors and metals to remove dust, loose paint, wallpaper paste and grit prior to painting. Bottled liquid cleaner requires no further rinsing after the surfaces are wiped down. Removes any type of debris that would prevent a smooth coat of paint.

Muriatic Acid—A bottled liquid diluted solution of hydrochloric acid and is used for a variety of heavy-duty tasks, such as removing salt deposits on rock or stucco. It is also used to remove rust and stain from concrete and brick.

Pre-Coating Cleaner
44ZU16

Muriactic Acid
44ZU25

Application	Remover Type	Container Size	Brand	Item No.
Pre-Coating Cleaner				
Water Base				
Cleans Dirt, Oil, and Grease From Wood and Metal Prior to Refinishing	Cleaner and Degreaser	1 qt	M-1	**44ZU16**
Muriactic Acid				
Acid Base				
Balances pH Levels In Pools, Removes Rust, Mineral Spirits, Deposits From Tools and Other Steel Items	Muriatic Acid Replacement	1 gal	Green Envy	**5KPY1**
Solvent Base				
Balances pH In Pools, Cleans Masonry, Brick and Concrete	Cleaner and Degreaser	1 gal	Sunnyside	**44ZU25**



Markal Paint Markers

Permanent liquid paint markers. To choose your "Marking Tool Surface Material" go to Grainger.com, enter "Item No." and use the filter on the left side.

PRO-LINE Fine—Marks on small surfaces and and has a valve-actuated tip.

PRO-LINE HP—Penetrates through oils and greases to dry quickly and leaves a bold mark.

PRO-LINE HT—Fast-drying paint locks in colors and retains some colors that can reach high temperatures, providing legible marks up to 2,200°F.

PRO-LINE WP—Fast-drying formula resists spreading and running when in contact with water or water-based fluids to leave a bright mark.

PRO-LINE XT—Marks on rusty, rough, and dirty surfaces.

PRO-MAX—Formula dries quickly and leaves bold marks.

Valve Action—Low chloride and xylene-free formula.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
PRO-LINE Fine	B, G, LTG, O, W	Medium	0° F	150 °F	**E4354**	1
	BK, R, Y	Fine	0° F	150 °F	**E4354**	1
PRO-LINE HP	B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, S, W, Y	Medium	-50° F	150 °F	**H4992**	1
PRO-LINE HT	B	Medium	-50° F	2,000 °F	**J7225**	1
	BK	Medium	-50° F	2,200 °F	**J7225**	1
	W, Y	Medium	-50° F	2,100 °F	**J7225**	1
PRO-LINE WP	B, BK, G, O, R, S, W, Y	Medium	-50° F	150 °F	**H4924**	1
PRO-LINE XT	B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, S, W, Y	Medium	-50° F	150 °F	**H4993**	1
PRO-MAX	B, BK, O, R, W, Y	Medium	0° F	150 °F	**E4355**	1
Valve Action	AL, B, BK, BN, G, GO, LTB, LTG, O, P, PL, R, W, Y	Medium	-50° F	150 °F	**F8274**	1
	FLG, FLO, FLP, FLY	Medium	-50° F	150 °F	**H4925**	1

** AL = aluminum, B = blue, BK = black, BN = brown, FLG = fluorescent green, FLO = fluorescent orange, FLP = fluorescent pink, FLY = fluorescent yellow, G = green, GO = gold, LTB = light blue, LTG = light green, O = orange, P = pink, PL = purple, R = red, S = silver, W = white, Y = yellow.*

Dykem Paint Markers

Xylene-free formula.

BRITE-MARK—Quick-drying, oil-based permanent paint marks on most indoor and outdoor conditions. Valve-actuated fiber tip.

RINZ OFF and SUDZ OFF—Temporary ink markers are for writing on untreated and unpainted surfaces which require removable ink. RINZ OFF ink is removable with water and SUDZ OFF ink can be removed with a detergent of pH 10 or higher.

Trade Name	▶CHOOSE: Color*	Marking Tool Surface Material	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
BRITE-MARK	B, BK, BN, G, GO, LTB, O, P, R, S, VT, W, Y	Concrete, Fabric, Glass, Metal, Plastic, Rubber, Stone, Wood	Medium	0° F	350 °F	**D6091**	1
RINZ OFF	B, G, R, Y	Metal	Medium	-20° F	150 °F	**J7223**	1
SUDZ OFF	BK, G, W, Y		Medium	-20° F	150 °F	**J7223**	1

** B = blue, BK = black, BN = brown, G = green, GO = gold, LTB = light blue, O = orange, P = pink, R = red, S = silver, VT = violet, W = white, Y = yellow.*

uniPAINT Paint Markers

Oil-based permanent markers perform well on virtually any surfaces including glass, metal, stone, and wood.

Trade Name	▶CHOOSE: Color*	Item No.	Pkg. Qty.
uniPAINT	B, BK, G, MS, O, R, W, Y	**D7946**	12

** B = blue, BK = black, R = red, W = white, Y = yellow.*

Paint Markers

Removable formula is ideal for use on auto body panels and windshields. Water-soluble marks are easy to remove with wet cloth.

Color	Marker Type	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
White	Permanent	Fine	**25UW96**	1
Pink	Removable	Medium	**3MHA2**	4
White	Removable	Medium	**3MHA3**	4
Yellow	Removable	Medium	**3MHA4**	4

Markal Paint Crayons

To choose your "Marking Tool Surface Material" go to Grainger.com and enter in "Item No." and scroll down.

B Paintstik—Marks through oily, icy, wet, dry, or cold surfaces. Lead-free. Nontoxic.

F Paintstik—Fluorescent formula produces high-visibility marks.

Quik Stik Mini—Twist-up crayons mark on smooth or rough surfaces. Fast drying.

WS-3/8 Paintstik—Water-soluble, fine-line marks are easy to remove. For nonporous surfaces.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
B Paintstik	B, BK, BN, G, GY, O, P, PL, R, W, Y	Large	-50° F	150 °F	**H7745**	12
F Paintstik	FLB, FLG, FLO, FLR, FLY	Large	-50° F	150 °F	**F2784**	12
Quik Stik Mini	BK, R, W, Y	Medium	0° F	392 °F	**H4929**	1
Quik Stik	FLG, FLO, , FLY	Medium	0° F	392 °F	**J5671**	1
Quik Stik	B, BK, G, O, PL, R, W, Y	Large	0° F	392 °F	**F2799**	1
WS-3/8 Paintstik	BK, R, W, Y	Medium	-50° F	150 °F	**H7742**	12

** B = blue, BK = black, BN = brown, FLB = fluorescent blue, FLG = fluorescent green, FLO = fluorescent orange, FLP = fluorescent pink, FLR = fluorescent red, FLY = fluorescent yellow, G = green, GY = gray, O = orange, P = pink, PL = purple, R = red, W = white, Y = yellow.*

Sharpie China Markers

Use to mark on many porous and nonporous surfaces including glass, metal and plastic. Water-soluble. Erasable with damp cloth. Peel-off paper covering; no sharpening required.

▶CHOOSE: Color*	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
BK, R, Y, W	Medium	**F8722**	12

** BK = black, R = red, W = white, Y = yellow.*

Dixon Phano China Markers

Produce bright bold strokes on most porous or non-porous surfaces including glass, plastic, film, paper, metal, and rubber. Wipe clean. Paper wrapped with tear strings for sharpening.

Trade Name	Color	Marking Tool Tip Size Shape	Item No.	Pkg. Qty.
Phano China Marker	Black	Bullet	**35X991**	12
	Black (Thin Lead)	Bullet	**35Y042**	12
	Blue	Bullet	**35Y040**	12
	Green	Bullet	**35Y041**	12
	Red	Bullet	**35X992**	12
	White	Bullet	**35X993**	12
	Yellow	Bullet	**35X994**	12

CROSS CHECK Plus

HIGH PURITY 44

HIGH TEMP 44

SAFE-MARK

TEXPEN

TUFF GUY

Dykem Industrial Markers

- To choose your "Marking Tool Surface Material" go to Grainger.com, enter "Item No." and use the filter on the left side.

CROSS CHECK—Highly visible marks indicate loose nuts, bolts, fasteners, and assemblies. Color can be viewed in ambient, fluorescent, and ultraviolet light.

CROSS CHECK Plus—Provides enhanced visibility in aviation maintenance applications.

HIGH PURITY 44—Valve-action tip allows tip to be re-inked. For surfaces where degradation or contamination is a concern.

HIGH TEMP 44—For marking surfaces exposed to high temperatures. Valve-action tip allows tip to be re-inked.

SAFE-MARK—NSF Certified for marking food contact surfaces used in processing, transporting, or holding food products. Valve-actuated locked nib tip.

TEXPEN—Stainless steel ball tip allows medium and broad marks and writes through grease, oil, and underwater.

TUFF GUY—Makes clear, crisp marks and is resistant to most coolants and cutting fluids, degreasing baths, and other industrial chemicals.

Trade Name	▶CHOOSE: Color*	Marker Type	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
CROSS CHECK	B, G, O, R, Y	Permanent	Medium	-20°F	400°F	G8789	1
	GY, P, W	Removable	—	0°F	400°F		1
CROSS CHECK Plus	B	Permanent	Medium	-4 °F	120 °F	451G25	1
	P	Permanent	Medium	0°F	400°F	53DZ13	1
	Y	Permanent	Medium	0°F	400°F	53DZ12	1
HIGH PURITY 44	B, BK, R, W, Y	Permanent	Medium	-20°F	150°F	J7227	1
HIGH TEMP 44	B, BK, G, W	Permanent	Medium	—	2,000°F	J7226	1
	Y	Permanent	Medium	—	900°F		1
SAFE-MARK	BK	Permanent	Medium	-20°F	475°F	6RRF2	1
TEXPEN	B, BK, G, O, R, W, Y	Permanent	Medium	0°F	450°F	D6087	1
	BK, W, Y	Permanent	Fine	0°F	450°F	G8786	1
TUFF GUY	B, BK, G, W	Permanent	Medium	-20°F	150°F	G8788	1
	R, Y	Permanent	Medium	0°F	300°F		1

** B = blue, BK = black, G = green, GY = gray, O = orange, P = pink, R = red, W = white, Y = yellow.*

DURA-INK 20

DURA-INK 25

DURA-INK 200

DURA-INK Industrial Markers

Permanent ink marks on surfaces such as cardboard, glass, metal, plastic, and wood. H5002 is retractable.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Min. Temp.	Max. Temp.	Item No.	Pkg. Qty.
DURA-INK 20	BK, R	Fine	—	—	H5002	1
DURA-INK 25	BK	Medium	0°F	150°F	2F928	1
DURA-INK 200	B, BK, G, R	Extra Large	0°F	—	E5675	1

** B = blue, BK = black, G = green, R = red.*

Industrial Markers

Work well on most surfaces including cardboard, ceramic, glass, metal, paper, plastic, rubber, and wood.

Trade Name	▶CHOOSE: Color*	Marking Tool Tip Size Group	Max. Temp.	Item No.	Pkg. Qty.
Industrial Marker	B, BK, G, O, R, W, Y	Jumbo	95°F	G7375	1

** B = blue, BK = black, G = green, O = orange, R = red, W = white, Y = yellow.*

Fine Tip
4AZL1

Chisel Tip
1JU73

Jumbo Tip
2LTH3

Sharpie Industrial Markers

Quick-drying, fade- and water-resistant.

Industrial—Withstands extreme heat without fading. Creates detailed lines on metal, glass, film, and plastic.

King Size—Creates clear lines on plastic, wood, stone, foil, metal, corrugate, and leather. For moist, wet, and oily surfaces.

Magnum—Jumbo tip produces clear lines on plastic, wood, stone, foil, metal, corrugate and leather. For moist, wet, and oily surfaces.

Trade Name	Color*	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
Industrial	BK	Fine	4AZL1	12
King Size	BK	Chisel	1JU73	1
Magnum	B	Jumbo	2LTH4	12
Magnum	BK	Jumbo	9LW82	12
Magnum	R	Jumbo	2LTH3	12

** B = blue, BK = black, R = red.*

DURA-INK 5

DURA-INK 15

DURA-INK 55

DURA-INK 80

DURA-INK WashAway

Red-Riter

Silver-Streak

Markal Industrial Markers

DURA-INK 5—Extended micro tip is for marking through drill holes, mounting brackets, and hard-to-reach areas. For use on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK 15—Fine bullet tip is good for layout work and parts identification. Works well on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK 55—Chisel tip produces fine and broad markings. For use on cardboard, glass, metal, plastic, and wood.

DURA-INK 80—Valve-actuated tip provides on-demand ink for smooth, continuous use. For use on cardboard, fabric, glass, metal, plastic, and wood.

DURA-INK WashAway—For temporary markings and removes easily with dry rag, towel, or eraser. Use on metals and glass.

Red-Riter and Silver-Streak—Create torch-resistant markings that will not rub, burn, or blow off. For metal layout and fabrication.

Trade Name	▶CHOOSE: Color*	Marker Type	Marking Tool Tip Size Group	Item No.	Pkg. Qty.
DURA-INK 5	BK	Permanent	Fine	45CG95	1
DURA-INK 15	B, BK, G, R, S	Permanent	Fine	F2808	1
DURA-INK 55	B, BK, G, R	Permanent	Fine	J7230	1
DURA-INK 80	BK	Permanent	Medium	3LKJ9	1
DURA-INK Washaway	B, G, P	Removable	Fine	J7229	1
Red-Riter Welders Pencil	R	Permanent	Fine	32PK95	12
Silver-Streak Metal Marker	S	Removable	Medium	1XEG4	1

** B = blue, BK = black, G = green, P = pink, R = red, S = silver.*

Brush Size

1XRK1

Foam Brushes

- Bristle thickness 9/16"
- Synthetic foam material

Foam brushes are inexpensive painting tools for either oil or water-based paints. They work best with thin products like stain and polyurethane finishes. These brushes wear out quickly and are best used as throw-away, single-task brushes. **Soft Foam Brushes** are for use with all paints and coatings, for water paint base type and used on concrete, metal and wood. **Firm Foam Brushes** are for use with paints, stains and varnishes, for oil and water paint base type and used on drywall metal and wood.

Bristle Stiffness	Bristle Length	Handle Type	Brand	Item No.
1" Brush Size				
Soft	1⅞"	Flat	—	**1XRJ9**
Firm	1½"	Dowel-Style	Wooster	**38UX04**
1", 2", 3" Brush Size, Foam Brush Set				
Soft	2⅝"	Flat	—	**1XRK4**
2" Brush Size				
Soft	2⅝"	Flat	—	**1XRK1**
Firm	2"	Dowel-Style	Wooster	**38UX05**
3" Brush Size				
Soft	2⅝"	Flat	—	**1XRK2**
Firm	2"	Dowel-Style	Wooster	**38UX06**
4" Brush Size				
Soft	2⅝"	Flat	—	**1XRK3**
Firm	1½"	Dowel-Style	Wooster	**39UU40**

1TTX2

Chip Brushes

- Natural filament

Chip brushes are used in both painting and maintenance work. They are used to sweep away chips and dust from machinery, and to paint in small places or corners where regular brushes cannot fit. They are commonly used with solvents since they are made with natural China bristles that don't melt. For use with glue, resin, epoxy, and oils, and can be disposed of after one use. China hair filament material, and wood handle, except 38UX48 is plastic.

Bristle Stiffness	For Paint or Coating Type	For Paint Base Type	Surface Material	Bristle Thickness	Bristle Length	Handle Type	Brand	Item No.	Pkg. Qty.
1" Brush Size									
Soft	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	5/16"	1½"	Flat	—	**1TTX1**	36
Firm	Enamels, Epoxies, Paints, Shellacs	Oil	—	7/16"	2¼"	Beavertail	Osborn	**33PP88**	1
2" Brush Size									
Soft	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	5/16"	1½"	Flat	—	**1TTX2**	24
Soft	Epoxies, Glues, Roof Coatings, Stains, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	5/16"	1 11/16"	Beavertail	Wooster	**38UX48**	1
Soft	Paints, Varnishes	Oil	Concrete, Metal, Wood	5/16"	1½"	Beavertail	Weiler	**36XE58**	1
2½" Brush Size									
Soft	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	⅜"	1½"	Flat	—	**1TTX3**	24
3" Brush Size									
Soft	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	⅜"	1½"	Flat	—	**1TTX4**	24
Soft	Epoxies, Glues, Roof Coatings, Stains, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	5/16"	1 11/16"	Flat	Wooster	**38UX03**	1
Firm	All Paints and Coatings	Oil, Water	All Purpose	½"	2"	Beavertail	Premier	**38M520**	1
4" Brush Size									
Soft	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	⅜"	1¾"	Flat	—	**5CJG9**	12
Soft	All Paints and Coatings	Oil, Water	All Purpose	11/16"	2"	Beavertail	Premier	**38M518**	1
Soft	Epoxies, Glues, Roof Coatings, Stains, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	5/16"	1 15/16"	Beavertail	Wooster	**38UX50**	1

1XRL1

Angle Sash Brushes

- Synthetic filament

The bristles of an angled sash brush (sometimes called a cutting brush) are cut at a slant, making it easier to paint clean lines. For use on surfaces with grooves, like cabinets, furniture, or paneled doors. The angled sash style is effective for painting close to another surface, such as between window trim and walls. Wood handle, except 38UX44 and 38UX46 are plastic.

Bristle Stiffness	Filament Material	For Paint or Coating Type	For Paint Base Type	Surface Material	Bristle Thickness	Bristle Length	Handle Type	Brand	Item No.
1" Brush Size									
Soft	Synthetic	All Paints and Coatings	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	⅜"	2 3/16"	Beavertail	Wooster	**38UX44**
Firm	Polyester	All Paints and Coatings	Oil, Water	Concrete, Metal, Wood	⅜"	2"	Long	—	**1XRL1**
1 ½" Brush Size									
Firm	Polyester/Nylon	All Paints and Coatings	Oil, Water	Drywall, Plaster	½"	2 7/16"	Fluted	Purdy	**14C530**
1 ½", 1", 2" Brush Size, Paint Brush Set									
Soft	Polyester	Enamels, Polyurethane Coatings, Varnishes	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	5/16",-1/2",-9/16"	2 3/16",-2-7/16",-2-11/16"	Beavertail, Sash	Wooster	**46TX50**
2" Brush Size									
Soft	Synthetic	All Paints and Coatings	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	½"	2 3/16"	Beavertail	Wooster	**38UX46**
Firm	Polyester/Nylon	All Paints and Coatings	Acrylic, Water	Concrete, Drywall, Metal, Wood	9/16"	2 11/16"	Sash	Wooster	**3UW41**
Firm	Polyester/Nylon	All Paints and Coatings	Oil, Water	Drywall, Plaster	9/16"	2 11/16"	Fluted	Purdy	**6YAH0**
2 ½" Brush Size									
Soft	Nylon	Low Viscosity Paints, Primers, Stains	Water	Concrete, Drywall, Metal, Wood	⅝"	2 15/16"	Sash	Wooster	**6KD64**
Firm	Polyester/Nylon	All Paints and Coatings	Acrylic, Water	Concrete, Drywall, Metal, Wood	⅝"	2 15/16"	Sash	Wooster	**3UW42**
Firm	Polyester/Nylon	All Paints and Coatings	Oil, Water	Drywall	⅝"	2 15/16"	Fluted	Purdy	**6YAH2**
3" Brush Size									
Firm	Polyester/Nylon	All Paints and Coatings	Acrylic, Water	Concrete, Drywall, Metal, Wood	11/16"	3 3/16"	Sash	Wooster	**3UW43**
Firm	Polyester/Nylon	All Paints and Coatings	Oil, Water	Drywall, Plaster	⅝"	3 3/16"	Fluted	Purdy	**14C531**

1XRJ6

Flat Sash Brushes

Brushes feature bristles that run straight across the ferrule and are used for applying paint over flat, seamless areas. Brushes provide an even flow of paint across trim and other surfaces.

Bristle Stiffness	Filament Material	For Paint or Coating Type	For Paint Base Type	Surface Material	Bristle Thickness	Bristle Length	Handle Type	Basic Handle Material	Brand	Item No.
½" Brush Size										
Soft	Hog Hair	All Paints & Coatings	Oil, Water	—	¼"	1⅛"	Rattail	Wood	Osborn	**33PP65**
1" Brush Size										
Soft	Synthetic	All Paints & Coatings	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	7/16"	2 3/16"	Beavertail	Plastic	Wooster	**36T199**
1½" Brush Size										
Soft	Polyester	All Paints & Coatings	Water	Concrete, Metal, Wood	9/16"	2 3/16"	Flat	Plastic	—	**1XRJ5**
2" Brush Size										
Soft	China Hair	Enamels, Stains, Varnishes	Oil	Brick, Concrete, Drywall, Metal, Wood	9/16"	2 7/16"	Beavertail	Plastic	Wooster	**3UW22**
Soft	Polyester	All Paints & Coatings	Water	Concrete, Metal, Wood	9/16"	2 7/16"	Flat	Plastic	—	**1XRJ6**
Soft	Polyester	Latex Paints	Water	Concrete, Metal, Wood	½"	2 3/16"	Flat	Plastic	—	**1XRJ3**
Firm	Polyester	All Paints & Coatings	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	9/16"	2 7/16"	Beavertail	Plastic	Wooster	**38UX22**
3" Brush Size										
Soft	Polyester	All Paints & Coatings	Water	Concrete, Metal, Wood	11/16"	2 11/16"	Flat	Plastic	—	**1XRJ7**
Soft	Polyester	Latex Paints	Water	Concrete, Metal, Wood	9/16"	2 7/16"	Flat	Plastic	—	**1XRJ1**
Soft	Polyester	Paints	Oil, Water	Concrete, Metal, Wood	11/16"	3 3/16"	Flat	Plastic	—	**1XRH6**
Firm	Polyester/Nylon	All Paints & Coatings	Acrylic, Water	Concrete, Drywall, Metal, Wood	11/16"	3 3/16"	Beavertail	Wood	Wooster	**38UX59**
Firm	Polyester/Nylon	All Paints & Coatings	Oil, Water	Drywall, Plaster	⅝"	3 3/16"	Fluted	Wood	Purdy	**19ZN32**
4" Brush Size										
Soft	Polyester	All Paints & Coatings	Water	Concrete, Metal, Wood	⅞"	3 7/16"	Flat	Plastic	—	**1XRJ8**
Soft	Polyester	Latex Paints	Water	Concrete, Metal, Wood	11/16"	2 15/16"	Flat	Plastic	—	**1XRJ2**
Soft	Polyester	Paints	Oil, Water	Concrete, Metal, Wood	⅞"	3 11/16"	Flat	Plastic	—	**1XRH7**

Round & Oval Sash Brushes

osborn

Round Sash Brushes have a blunt, tapered tip with soft edges to cover a large area and is commonly used by faux and decorative finish painters. Sizes are measured by the diameter of the bristle head. **Oval Sash Brushes** have thin, rounded bristles and produce a soft, fuller edge. Used for applying oil-based paints, stains, enamels, and other solvents to window mullions, machinery, pipes, and other narrow areas.

Brush Size

Bristle Stiffness	Filament Type	Filament Material	For Paint or Coating Type	For Paint Base Type	Bristle Thickness	Bristle Length	Basic Handle Material	Item No.
Round Sash								
#4 Brush Size								
Soft	Natural	China Hair	All Paints & Coatings	Oil	11/16"	1 7/8"	Plastic	**33PP82**
#8 Brush Size								
Soft	Natural	China Hair	All Paints & Coatings	Oil	15/16"	2 3/8"	Plastic	**33PP83**
Firm	Synthetic	Tampico	All Paints & Coatings	Oil, Water	15/16"	2 7/8"	Wood	**33PP77**
#14 Brush Size								
Soft	Natural	China Hair	Enamels, Epoxies, Glues, Shellacs, Stains	Oil, Water	7/8"	2 1/8"	Wood	**33PP78**
Oval Sash								
#2 Brush Size								
Soft	Natural	China Hair	Enamels, Epoxies, Shellacs, Stains	Oil	1/2"	1 5/8"	Plastic	**33PP84**
Soft	Natural	China Hair	Paints, Varnishes	Oil	1/2"	1 5/8"	Wood	**33PP81**

WOOSTER osborn

Wall Brushes

Wall brushes are thick, synthetic filament flat brushes that hold a large amount of paint for covering large surface areas such as walls, doors, and paneling. Used with all paints and coatings. Plastic handle, except 3UW39 is wood.

Bristle Stiffness	Filament Material	For Paint Base Type	Surface Material	Bristle Thickness	Bristle Length	Brand	Item No.
1" Brush Size							
Soft	Synthetic	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	7/16"	2 3/16"	Wooster	**36T199**
3" Brush Size							
Firm	Polyester	Oil, Water	—	3/8"	1 3/4"	Osborn	**33PP72**
Firm	Polyester	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	11/16"	2 11/16"	Wooster	**39UU37**
Firm	Polyester/ Nylon	Acrylic, Water	Concrete, Drywall, Metal, Wood	7/8"	3 7/16"	Wooster	**3UW39**
4" Brush Size							
Soft	Synthetic	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	7/8"	3 3/16"	Wooster	**38UX43**
Firm	Polyester	Oil, Water	Brick, Concrete, Drywall, Metal, Wood	7/8"	3 7/16"	Wooster	**38UX23**
Firm	Polyester	Oil, Water	—	11/16"	2 3/4"	Osborn	**33PP76**

Artist Brushes

WOOSTER

- Soft bristle stiffness
- Surface material: drywall, metal, wood

Natural filament brushes are used to apply paint or sometimes ink to small areas. Thicker ones are used for filling in, and thinner ones are used for touching up details. Wood handle.

Brush Size	Filament Material	For Paint or Coating Type	For Paint Base Type	Bristle Thickness	Bristle Length	Item No.
#0	Red Sable	Watercolors	Water	1 3/16 mm	8 mm	**2AJN7**
#2	Camel Hair	Watercolors	Water	2 mm	11 mm	**2AJP4**
#4	Camel Hair	Watercolors	Water	2 11/16 mm	16 mm	**2AJP6**
#4	Red Sable	Watercolors	Water	2 11/16 mm	14 mm	**2AJP2**
1/8"	Ox Hair	Paints, Varnishes	Oil	2 mm	17 1/2 mm	**2AJR1**
1/4"	Camel Hair	Paints, Varnishes	Oil	2 mm	19 mm	**2AJR5**
1/4"	Ox Hair	Paints, Varnishes	Oil	2 1/2 mm	20 mm	**2AJR2**
3/8"	Ox Hair	Paints, Varnishes	Oil	3 1/2 mm	22 mm	**2AJR3**
1/2"	Ox Hair	Paints, Varnishes	Oil	4 mm	25 1/2 mm	**2AJR4**

2AJR4

Skive Brushes

MICHIGAN BRUSH MANUFACTURING COMPANY, INC.

- Firm bristle stiffness

Skive brushes or paddle paint brushes are designed for painting both broad marks and edges. They are ideal for spreading thick colors over large surface areas. These brushes make a great finishing brush for faux finishing projects on metal and wood, and are used with all paints and coatings. Feature a natural filament and hog hair material, and wood handle.

Brush Size	Bristle Thickness	Bristle Length	Item No.
5/8"	5/8"	1"	**39AR79**
3/4"	3/4"	1 3/8"	**39AR80**

39AR80

WOOSTER

Varnish Brushes

38UX40

- Soft bristle stiffness

Natural-Bristle brushes such as china bristle (hog's hair) apply oil-based varnish in a thin, even coating reducing streaks and distribute the varnish evenly across a wood surface. **Synthetic Brushes** with flagged (or split) ends hold their shape while providing an ultra-smooth finish when applying water-based varnishes.

Filament Type	Filament Material	For Paint or Coating Type	For Paint Base Type	Surface Material	Brush Thickness	Bristle Length	Basic Handle Material	Item No.
1" Brush Size								
Natural	China Hair	Paints, Polyurethane Coatings, Stains, Varnishes	Oil	Brick, Concrete, Drywall, Metal, Wood	7/16"	2 3/16"	Plastic	**38UX68**
Synthetic	Polyester	Enamels, Polyurethane Coatings, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	7/16"	2 3/16"	Wood	**46TX48**
1 1/2" Brush Size								
Synthetic	Polyester	Enamels, Polyurethane Coatings, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	1/2"	2 7/16"	Wood	**39UT90**
3" Brush Size								
Natural	China Hair	Paints, Polyurethane Coatings, Stains, Varnishes	Oil	Brick, Concrete, Drywall, Metal, Wood	11/16"	2 15/16"	Plastic	**38UX70**
Synthetic	Polyester	Enamels, Polyurethane Coatings, Varnishes	Oil, Water	Concrete, Drywall, Metal, Wood	9/16"	2 15/16"	Wood	**38UX40**

Bent Radiator Brushes

Bent radiator paint brushes are shaped to paint hard-to-reach areas behind pipes, furniture, and other fixtures. The sash is positioned at a 45° angle on a long wood handle. These brushes can be used with all types of paints and stains, on concrete, metal and wood, and for oil and water paint base type.

Bristle Stiffness	Filament Type	Filament Material	Bristle Thickness	Bristle Length	Handle Length	Item No.
1 3/8" Brush Size						
Soft	Synthetic	Synthetic	7/16"	1 13/16"	13 13/16"	**6NCE8**
2" Brush Size						
Soft	Mixed	China Hair	9/16"	2 3/16"	14 1/2"	**1TTV9**
Soft	Synthetic	Polyester	9/16"	2 11/16"	13 3/4"	**55NJ94**
Soft	Synthetic	Synthetic	7/16"	2 1/16"	14"	**6NCE9**
2 1/2" Brush Size						
Soft	Synthetic	Synthetic	1/2"	2 1/4"	14"	**6NCF0**
3" Brush Size						
Soft	Mixed	China Hair	11/16"	2 3/16"	15"	**1TTW1**

1TTV9

SHUR-LINE Premier WOOSTER Purdy

Standard Paint Roller Covers

⅜" Nap
3UW67

⅜" Nap
1UFN1

¾" Nap
3UW70

Overall Length	Core Dia.	Cover Material	Compatible Roller Frame Style	Surface	Surface Material	Paint Type	Trade Name	Brand	Item No.	Pkg. Qty.
No Nap										
6"	¼"	Foam	Wire	Smooth	Wood	Oil Based Paints, Water Based Paints	—	Shur-Line	**39AN33**	4
6½"	⅝"	Foam	Wire	Smooth	—	All Paints, Enamels, Stains, Urethanes, Varnishes	High-Density Domed Foam	Premier	**29UT19**	10
³⁄₁₆" Nap										
9"	1½"	Woven Fabric	Cage	Smooth	Concrete, Drywall, Masonry, Metal, Wood	All Paints, Enamels, Epoxies, Primers, Urethanes	Pro/Doo-Z®	Wooster	**3UW78**	1
¼" Nap										
4½"	¾"	Mohair Fabric, Polyester	Cage	Smooth	Brick, Concrete, Drywall, Masonry, Wood	Enamels, Epoxies, Urethanes, Varnishes	Jumbo-Koter® Mohair Blend™	Wooster	**3WA82**	2
7"	1½"	Mohair Fabric, Polyester	Cage	Smooth	Brick, Concrete, Drywall, Masonry, Wood	All Paints, Enamels, Varnishes	Mohair Blend	Wooster	**36T174**	1
9"	1½"	Dralon Fabric	Cage	Smooth, Very Smooth	Drywall	Oil Based Paints, Water Based Paints	White Dove™	Purdy	**14C561**	1
9"	1½"	Polyester	Cage	Smooth	Drywall	All Paints	General Purpose	Premier	**29UT35**	1
⅜" Nap										
4½"	¾"	Knit Fabric	Cage	Semi-Smooth	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Eggshell Paints, Satin Paints, Stains, Waterproofing	Jumbo-Koter® Super/Fab®	Wooster	**3WA80**	2
4½"	¾"	Woven Fabric	Cage	Semi-Smooth	Brick, Concrete, Drywall, Masonry, Wood	Adhesives, All Paints, Enamels, Primers	Jumbo-Koter® Pro/Doo-Z®	Wooster	**3TA37**	2
6½"	¾"	Woven Fabric	Cage	Semi-Smooth	Brick, Concrete, Drywall, Masonry, Wood	Adhesives, All Paints, Enamels, Primers	Jumbo-Koter® Pro/Doo-Z®	Wooster	**6NE87**	2
7"	1½"	Polyester, Wool	Cage	Semi-Smooth	Drywall	Cements, All Paints, Stains, Urethanes	Kodawool®	Premier	**24K674**	1
9"	1½"	Dralon Fabric	Cage	Semi-Smooth, Smooth	Drywall	All Paints	White Dove™	Purdy	**6YAH7**	1
9"	1½"	Knit Fabric	Cage	Semi-Smooth	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Satin Paints, Stains, Waterproofing	Super/Fab®	Wooster	**3UW67**	1
9"	1½"	Nylon, Polyester	Cage	Semi-Smooth, Smooth	Concrete, Drywall, Masonry, Wood	Oil Based Paints, Water Based Paints	Marathon	Purdy	**54JF67**	1
9"	1½"	Polyester	Cage	Semi-Smooth	Drywall	All Paints	General Purpose	Premier	**1UFN2**	1
9"	1½"	Polyester	Cage	Semi-Smooth	Drywall	Oil Based Paints, Water Based Paints	Home Pro™	Premier	**1UFN1**	6
9"	1½"	Polyester, Wool	Cage	Semi-Smooth	Drywall	Cements, All Paints, Stains, Urethanes	Kodawool®	Premier	**1UFL5**	1
9"	1½"	Woven Fabric	Cage	Semi-Smooth	Concrete, Drywall, Masonry, Metal, Wood	All Paints, Enamels, Epoxies, Primers, Urethanes	Pro/Doo-Z®	Wooster	**3UW80**	1
18"	1½"	Polyester	Cage	Semi-Smooth	Drywall	All Paints	General Purpose	Premier	**34AN73**	1
18"	1½"	Woven Fabric	Yoke	Semi-Smooth	Concrete, Drywall, Masonry, Metal, Wood	All Paints, Enamels, Epoxies, Primers, Urethanes	Pro/Doo-Z®	Wooster	**3UW79**	1
½" Nap										
4½"	¾"	Knit Fabric	Cage	Semi-Rough	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Eggshell Paints, Satin Paints, Stains, Waterproofing	Jumbo-Koter® Super/Fab®	Wooster	**3WA81**	2
9"	1½"	Knit Fabric	Cage	Semi-Rough	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Satin Paints, Stains, Waterproofing	Super/Fab®	Wooster	**3UW68**	1
9"	1½"	Nylon, Polyester	Cage	Medium, Semi-Rough, Semi-Smooth	Concrete, Drywall, Masonry, Wood	Oil Based Paints, Water Based Paints	Marathon	Purdy	**54JF68**	1
9"	1½"	Polyester	Cage	Medium, Semi-Rough, Semi-Smooth	Concrete, Drywall	Oil Based Paints, Water Based Paints	Contractor 1st™	Purdy	**6YAJ1**	1
9"	1½"	Polyester	Cage	Semi-Rough	Brick, Concrete	All Paints	General Purpose	Premier	**29UT36**	1
9"	1½"	Polyester, Wool	Cage	Semi-Rough	Brick, Concrete	Cements, All Paints, Stains, Urethanes	Kodawool®	Premier	**1UFL6**	1
9"	1½"	Woven Fabric	Cage	Semi-Rough	Brick, Concrete	All Paints, Enamels, Varnishes	Woven-Pro®	Premier	**1UFL8**	1
9"	1½"	Woven Fabric	Cage	Semi-Rough	Concrete, Drywall, Masonry, Metal, Wood	All Paints, Enamels, Epoxies, Primers, Urethanes	Pro/Doo-Z®	Wooster	**3UW81**	1
18"	1½"	Wool, Polyester	Cage	Semi-Rough	Brick, Concrete	Cements, All Paints, Stains, Urethanes	Kodawool®	Premier	**24K683**	1
¾" Nap										
9"	1½"	Knit Fabric	Cage	Rough	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Satin Paints, Stains, Waterproofing	Super/Fab®	Wooster	**3UW70**	1
9"	1½"	Polyester	Cage	Semi-Rough	Concrete, Drywall	Oil Based Paints, Water Based Paints	Contractor 1st™	Purdy	**6YAJ2**	1
9"	1½"	Polyester	Cage	Rough	Brick, Concrete, Wood	All Paints	General Purpose	Premier	**29UT37**	1
1" Nap										
9"	1½"	Polyester, Wool	Cage	Extra-Rough	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Satin Paints, Stains, Waterproofing	50/50™	Wooster	**38UY01**	1
1¼" Nap										
9"	1½"	Polyester	Cage	Extra-Rough	Brick, Concrete, Masonry	All Paints	General Purpose	Premier	**29UT38**	1

39AN28

SHUR-LINE SURE YOU CAN Premier Purdy

Mini Paint Roller Covers

Mini roller covers of 4 in. or less and are optimal for small surfaces and narrow areas such as edges, corners, trim and frames, as well as hard-to-reach places.

Overall Length	Core Dia.	Cover Material	Compatible Roller Frame Style	Surface	Surface Material	Paint Type	Brand	Item No.	Pkg. Qty.
No Nap									
4"	¼"	Foam	Wire	Smooth	Wood	Oil Based Paints, Water Based Paints	Shur-Line	**39AN28**	10
4"	⅝"	Foam	Wire	Smooth	—	All Paints, Enamels, Stains, Urethanes, Varnishes	Premier	**29UT16**	2
4"	⅝"	Foam	Wire	Smooth	Drywall	All Paints, Enamels, Stains, Urethanes, Varnishes	Premier	**6LFG9**	10
¼" Nap									
4"	1½"	Wool, Polyester	Cage	Smooth	Drywall	Cements, All Paints, Stains, Urethanes	Premier	**29UT21**	1
⅜" Nap									
3"	1½"	Knit Fabric	Cage	Semi-Smooth	Drywall	All Paints, Stains	Shur-Line	**48WL89**	2
4"	¼"	Polyester	Wire	Medium, Semi-Rough, Semi-Smooth	Drywall	All Paints	—	**415M68**	1
4"	¼"	Polyester	Wire	Medium, Semi-Rough, Semi-Smooth	Drywall	Oil Based Paints, Water Based Paints	—	**403T20**	10
4"	¼"	Polyester	Wire	Semi-Smooth	Drywall	Oil Based Paints, Water Based Paints	Shur-Line	**39AN29**	10
4"	1½"	Knit Fabric	Cage	Semi-Smooth	Drywall	All Paints, Stains	Shur-Line	**48WL90**	2
4"	1½"	Polyester	Cage	Semi-Smooth	Drywall	All Paints	Premier	**5CVP3**	1
4"	1½"	Woven Fabric	Cage	Semi-Smooth	Drywall	All Paints, Enamels, Varnishes	Premier	**6LFH4**	1
½" Nap									
4"	½"	Dralon Fabric	Wire	Medium, Semi-Rough, Semi-Smooth	Drywall	All Paints	Purdy	**19ZN49**	2
4"	⅝"	Perlon Fabric	Wire	Medium, Semi-Rough, Semi-Smooth	Brick, Concrete	Oil Based Paints, Water Based Paints	Premier	**6LFG8**	10
¾" Nap									
4"	1½"	Knit Fabric	Cage	Rough	Brick, Concrete, Drywall, Masonry, Wood	Flat Paints, Satin Paints, Stains, Waterproofing	Wooster	**3UW69**	1
4"	1½"	Wool, Polyester	Cage	Rough	Brick, Concrete, Wood	Cements, All Paints, Stains, Urethanes	Premier	**24K679**	1

Standard Paint Roller Frames

Frames are designed to be used with roller covers that fit over the frame cage that spins independently of the frame and handle.

29UT70

Roller Length	Overall Length	Roller Frame Style	Handle Material	Handle Color	Handle Type	Paint Type	Brand	Item No.
4 ½ in, 6 ½ in	12"	Cage	Plastic	Green	Threaded	All Paints	Wooster	**3WA86**
4 ½ in, 6 ½ in	12"	Wire	Plastic	Black	Threaded	Latex Paints, Oil Based Paints	Purdy	**14C551**
4 ½ in, 6 ½ in	22"	Wire	Rubber	Black	Threaded	Latex Paints, Oil Based Paints	Purdy	**52JJ13**
7 in	12"	4 Wire Cage	Plastic	Black	Threaded	All Paints	Wooster	**38UY19**
7 in	14½"	Cage	Plastic	Green	Threaded	All Paints	Wooster	**36T206**
9 in	11⅝"	Cage	Plastic	Black	Threaded	All Paints	—	**1UFN3**
9 in	11⅝"	Cage	Rubber	Black, Red	Threaded	All Paints	—	**1UFP2**
9 in	12½"	5 Wire Cage	Plastic	Black	Threaded	All Paints, Stains	Shur-Line	**12G318**
9 in	12½"	5 Wire Cage	Plastic	Black	Threaded	All Paints	Premier	**29UT70**
9 in	12½"	Cage	Plastic	Black, Red	Threaded	All Paints, Stains	Shur-Line	**39AN13**
9 in	13"	Cage	Rubber	Black, Red	Comfortable Grip, Threaded	All Paints, Stains	Shur-Line	**54HR59**
9 in	13½"	5 Wire Cage	Plastic	Black	Threaded	All Paints	Wooster	**38UY18**
9 in	14"	Cage	Plastic	Black	Threaded	Latex Paints, Oil Based Paints	Purdy	**14C549**
9 in	14½"	Easy Release Cage	Plastic	Black, Red	Comfortable Grip, Threaded	All Paints, Stains	Shur-Line	**12G317**
9 in	15"	Cage	Plastic	Green	Threaded	All Paints	Wooster	**3UW50**
14 in	16"	Cage	Plastic	Green	Comfortable Grip, Threaded	All Paints	Wooster	**5MPR8**

Mini Paint Roller Frames

Frames are designed to be used with roller covers that fit over the frame cage that spins independently of the frame and handle.

54HR55

Roller Length	Overall Length	Roller Frame Style	Handle Material	Handle Color	Handle Type	Paint Type	Brand	Item No.
3 in	11½"	4 Wire Cage	Plastic	Black	Threaded	All Paints	Premier	**29UT79**
3 in	11¾"	Wire	Plastic	Black	Threaded	All Paints, Stains	Shur-Line	**54HR55**
4 in	11¾"	Cage	Plastic	Black	Threaded	All Paints, Stains	Shur-Line	**54HR56**
4 in	12"	4 Wire Cage	Plastic	Black	Threaded	All Paints	Premier	**6LFH5**
4 in	12"	Wire	Plastic	Black	Threaded	All Paints	Wooster	**38UY23**
4 in	15"	Cage	Plastic	Green	Threaded	All Paints	Wooster	**38UY27**
4 in, 6 in	12"	Wire	Plastic	Black, Red	Wire	All Paints, Stains	Shur-Line	**39AN34**
4 in, 6 in	12"	Wire	Plastic	Red	—	All Paints, Stains	Shur-Line	**12G325**
4 in, 6 in	16"	Wire	Plastic	Black, Red	Wire	All Paints, Stains	Shur-Line	**39AN35**
4 in, 6 in	24"	Wire	Plastic	Black, Red	Threaded	All Paints, Stains	Shur-Line	**39AN36**

Dual Paint Roller Frame

Frame features twin roller cages that spin smoothly and paint 2 sides of pipe simultaneously. Roller frame is fully adjustable to paint pipes as small as 1" dia., as well as railings, posts, I-beams, bridges, and more. Galvanized ¼" shanks.

Roller Length	Overall Length	Roller Frame Style	Handle Material	Handle Color	Paint Type	Item No.
4 ½ in, 6 ½ in	10 in	Cage	Plastic	Green	All Paints	**21YX76**

Electric 36WH30

Manual 45DR38

Paint Power Rollers

- For use with latex and oil based paints

Electric Paint Power Roller System—Include a motor or pump that propels paint from the container to the roller through a hollow tube. The paint reaches the roller and is evenly distributed over the flat surface through tiny pores on the roller cover and saturates the roller wool.

Manual Paint Power Rollers—Include a draw tube that pulls paint into the handle of the roller and feeds it to the roller cover for extended painting times. The tube will refill the pole as many times as necessary, helping to speed painting procedures, eliminating drips and spills, and providing even coverage to any flat surface being painted.

Roller Length	Handle Length	Overall Length	Cap.	Item No.
Electric Paint Power Roller System, 120V				
9 in	8"	6¾"	5 gal	**36WH30**
Manual Paint Power Rollers				
9 in	20"	20"	—	**40ME86**
9 in	20"	20"	—	**40ME83**
9 in	35"	46¼"	22 fl oz	**45DR38**
12 in to 18 in	22"	22"	—	**40ME85**

Adjustable Paint Roller Frames

14C550

Accommodate any size roller cover up to 18 in. long. These heavy-duty frames have two end caps to hold the larger covers in place while rolling.

Roller Length	Overall Length	Roller Frame Style	Handle Material	Handle Color	Handle Type	Paint Type	Brand	Item No.
12 to 18 in	6¼"	Yoke	Nylon	Green	Threaded	All Paints	Wooster	**2ZHR5**
12 to 18 in	8"	Roller Frame	Plastic	Black		All Paints	Premier	**24K685**
12 to 18 in	18"	Roller Frame	Plastic	Black	Threaded	Latex Paints, Oil Based Paints	Purdy	**14C550**

Adjustable 1UFN6

Non-Adjustable 38UY12

Paint Roller Poles

- Universal connection

Adjustable poles attach to the base of roller frame handles and adjust to increase reach for painting in high areas or on ceilings, reducing the amount of ladder work needed on a job. Poles feature a twist-locking mechanism to hold in place. **Nonadjustable** paint extension poles are stationary sticks with threaded heads, resembling broomsticks. Paint roller frames screw onto the threaded heads and hold paint rollers steady to reach short or moderate heights.

Pole Length	Dia.	Material	Color	Brand	Item No.
Adjustable Paint Extension Pole					
1 to 2 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Black/Silver	Wooster	**2ZHR7**
2 to 4 ft	1"	Steel	Black	Premier	**40NE77**
2 to 4 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Black/Silver	Wooster	**1EKL1**
2 to 4 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Yellow	—	**1UFN6**
3 to 6 ft	1"	Steel	Black	Premier	**40NE75**
4 to 8 ft	1"	Steel	Black	Premier	**40NE81**
4 to 8 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Black/Silver	Wooster	**1EKL2**
4 to 8 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Yellow	—	**1UFN7**
6 to 12 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Yellow	—	**1UFN8**
8 to 16 ft	1½"	Aluminum Inner Pole, Fiberglass Outer Pole	Yellow	—	**1UFN9**
Non-Adjustable Paint Extension Pole					
4 ft	¾"	Wood	Tan	Wooster	**38UY12**
5 ft	¾"	Wood	Tan	Wooster	**38UY13**
6 ft	15⁄16"	Wood	Tan	Osborn	**33PM77**

Roller & Tray Kits
38RX44

Brush, Roller & Tray Kits
48WL94

Paint Applicator Combination Kits

Combination kits for paint applicators provide the basic tools needed to complete a painting or staining project in one kit, and are often less expensive than buying multiple single items.

Roller Length	Nap Size	Cover Material	Roller Frame Style	Surface Material	Surface Type	Paint Type	Number of Pieces Included	Brand	Item No.
Roller & Tray Kits									
Mini Paint Roller Kit									
4"	0"	Foam	Cageless	Drywall	Medium, Semi-Smooth, Smooth	All Paints	3	Premier	**29UT18**
	⅜"	Foam, Knit Fabric	Wire	All Purpose		Latex Paints	7	Shur-Line	**12G322**
	⅜"	Woven Fabric	4 Wire Cage	Concrete, Drywall, Masonry, Metal, Wood	Semi-Smooth	All Paints, Enamels, Varnishes	3	Wooster	**39UU01**
	⅜"	Knit Fabric	Cage	Drywall	Semi-Smooth	All Paints, Stains	4	Shur-Line	**48WL88**
Standard Paint Roller Kit									
9"	⅜"	Polyester	5 Wire Cage	Concrete, Drywall	Medium, Semi-Smooth, Smooth	Latex Paints, Latex Primers, Oil Based Paints, Oil Based Primers	4	Purdy	**14C553**
	⅜"	Knit Fabric	—	All Purpose	Smooth	All Paints	4	Ability One	**38RX44**
	⅜"	Woven Fabric	5 Wire Cage	Concrete, Drywall, Masonry, Metal, Wood	Semi-Smooth	All Paints, Enamels, Varnishes	3	Wooster	**46TX57**
Brush, Roller & Tray Kits									
Mini Paint Roller Kit									
3"	3/16"	Woven Fabric	Wire	Drywall, Metal, Wood	Smooth	Adhesives, All Paints, Stains, Varnishes	3	Wooster	**46TX51**
Standard Paint Roller Kit									
3",-9"	⅜"	Knit Fabric	Cage	Drywall, Wood	Semi-Smooth	All Paints, Stains	9	Shur-Line	**48WL94**
9"	⅜"	Knit Fabric	—	All Purpose	Smooth	All Paints	6	Ability One	**38RX45**
	⅜"	Knit Fabric	—	All Purpose	Smooth	All Paints	14	Ability One	**38RX46**
15"	⅜"	Knit Fabric	Cage	Drywall	Semi-Smooth	All Paints, Stains	4	Shur-Line	**48WL95**

Paint & Stain Edger
12G323

Paint Edgers & Pads

Paint & Stain Edgers create clean, straight lines of paint along molding and trim without using painter's tape. These tools use disposable pads to spread paint alongside areas that are not intended for paint. They provide better control and less splatter than paint brushes, making them faster to use when cutting edges around ceilings, windows, doors, and in corners. **Refill Pads** replace old, worn pads to help ensure smooth, even paint coverage.

Overall Length	Overall Width	Material	Application	Compatible with Manufacturer Part Number	Color	Brand	Item No.	Pkg. Qty.
Paint & Stain Edgers								
3¾"	7"	Plastic	Paints, Sealers, Stains, Waxes	3955107N	Black/Red	Shur-Line	**48WM14**	1
	7"	Plastic	Paints, Sealers, Stains, Waxes	610C	Red	Shur-Line	**39AN18**	1
	9"	Plastic	Paints, Sealers, Stains, Waxes	3955105N	Black/Red	Shur-Line	**48WL91**	1
	9"	Plastic	Paints, Sealers, Stains, Waxes	630C	Red	Shur-Line	**39AN20**	1
	9"	Plastic	Paints, Stains	3955109	Black/Red	Shur-Line	**12G334**	1
4¾"	3½"	Plastic	Paints, Stains	—	Blue	—	**2FDK6**	1
	5¾"	Plastic	Paints, Stains	—	Black/Red	Shur-Line	**12G323**	1
5"	3½"	Plastic	Trim	8020-01-621-4316	Gray	Ability One	**38RX39**	1
6"	2½"	Plastic	Paints	—	Red	Shur-Line	**52JC14**	1
7⅝"	6½"	Plastic	Paints, Stains	1791258	Red	Shur-Line	**39AN22**	1
Paint & Stain Edger Refill Pads								
3¾"	7"	Plastic	Paints, Sealers, Stains, Waxes	3955106N	Yellow	Shur-Line	**48WM15**	1
	7"	Plastic	Paints, Sealers, Stains, Waxes	740C	Green	Shur-Line	**39AN19**	1
	9"	Plastic	Paints, Sealers, Stains, Waxes	3955104N	White	Shur-Line	**48WL92**	1
	9"	Plastic	Paints, Sealers, Stains, Waxes	745C	Green	Shur-Line	**39AN21**	1
	9"	Polystyrene	Paints, Stains	3955108	Tan/Yellow	Shur-Line	**12G335**	1
4¾"	3½"	Polystyrene	Paints, Stains	—	White	—	**2FDK9**	3
	6⅛"	Polystyrene	Paints, Trim	—	White	Shur-Line	**52JC15**	2
5"	3½"	Fiber	Trim	8020-01-621-3443	White	Ability One	**38RX40**	2
7⅝"	6½"	Plastic	Paints, Stains	1791257	Green	Shur-Line	**39AN23**	1

3U604

2FDK5

2FDK7

2GTU2

3UW49

3KMN2

Painting and Finishing Tools

Description	L	W	Brand	Item No.	Pkg. Qty.
Painting Tools					
Pail Lid Opener	8"	—	Tough Guy	**3U604**	1
Paint Can Hook	5¾"	2¼"	—	**2FDK1**	3
Paint Can Opener	5¼"	—	—	**2FDK5**	2
Painters Tool 5-In-1, Brass/Nylon	7¼"	—	Hyde Tools	**3KMN2**	1
Paint Grid For Use With 1 gal Paint Cans	6½"	5¾"	Handy Paint Products	**49ET25**	1
Paint Grid For Use With 1 gal Paint Cans	9"	5¼"	Wooster	**2GTU2**	1
Paint Grid For Use With 5 gal Buckets	12"	10¾"	Handy Paint Products	**49ET24**	1
Paint Grid Wire For Use With 5 gal Buckets	11½"	10"	Wooster	**3UW49**	1
Paint Stir Stick, Red Plastic	12⅞"	1½"	—	**2FDK7**	1
Paint Trim Guide, ABS w/ Stainless Steel 12 in Blade	12"	2⅝"	—	**2FDK3**	1
Paint Trim Guide, ABS w/ Stainless Steel 24 in Blade	24"	3 7/16"	—	**2FDK4**	1
Paint Brush and Roller Cleaners					
Handle with Grid	—	—	Richard	**52NN06**	1
Paint Brush and Roller Cleaner	15¼"	1½"	—	**2FDK2**	1
Paint Brush and Roller Cleaner	7"	2½"	Hyde Tools	**38X892**	1

Staining Cloths

Paint Mitt
39AN37

Staining Cloths & Paint Mitts

Staining Cloths are cotton cheesecloth squares used for staining or varnishing wood surfaces. Since cloths are thin and pliable, they saturate quickly to fill wood grain and cover surfaces smoothly.

Paint Mitts are multi-layered, lined gloves that provide protection while applying paint or stain in hard-to-reach areas or on irregular surfaces.

Overall Length	Overall Width	Material	For Use With	Color	Brand	Item No.	Pkg. Qty.
Staining Cloths							
5"	4"	Terry Cloth	Floors, Other Woodworks, Polishing Furniture, Staining, Waxing	White	DeRoyal	**41U064**	3
Paint Mitts							
9"	5⅜"	Synthetic Lambs Wool	Fencing, Pipes, Radiators, Railings	Tan	Shur-Line	**39AN37**	1
10½"	5¾"	Synthetic Lambs Wool	Latex Paints, Oil Paints	White	—	**1UFN4**	1

WOOSTER
WOMBAT PORTAPAINT

Paint Trays & Liners

Paint Trays have a reservoir that works with both brushes and rollers, and a ridged slope for removing excess paint before applying to a surface. They are often used with a disposable tray liner for easier cleanup. **Paint Tray Liners** are disposable plastic inserts that make cleanup easier. Liners are made of solvent-resistant plastic that resists cracking. The form-fitting design snugs tightly to the paint tray to extend the life of the tray for multiple uses.

Paint Tray
39AN15

Paint Tray
3UW74

Paint Tray
34AN83

Paint Tray Liner
24K689

Overall Width	Overall Length	Overall Depth	Cap.	Material	Color	Brand	Item No.	Pkg. Qty.
Paint Trays								
7"	15"	2"	0.5 qt	Plastic	Black	—	**39AN15**	1
8"	11½"	2¾"	1 pt	Plastic	Black	—	**24K695**	1
11"	14½"	3½"	2 qt	Polypropylene	Black	Wooster	**703K30**	1
	16¼"	2½"	1 qt	HIPP	Green	—	**14A047**	1
	16½"	2½"	1 qt	Steel	Silver	—	**3UW74**	1
11½"	15½"	2½"	1 qt	PET Recycled Plastic	Green	—	**6LFH2**	1
11⅝"	15"	3½"	2 qt	Polypropylene	Black	—	**34AN83**	1
12⅞"	22"	4½"	1 gal	Plastic	Red	—	**49ET22**	1
13⅜"	19¼"	3½"	1 gal	Steel	Silver	—	**34AN85**	1
18"	14"	7"	1 gal	Polypropylene	Green	—	**32UU86**	1
22"	13"	4"	1 gal	Plastic	Black	—	**24K687**	1

Overall Width	Overall Length	Overall Depth	Cap.	Material	Color	Brand	Item No.	Pkg. Qty.
Paint Tray Liners								
4½"	18"	4½"	1 gal	Plastic	Clear	—	**49ET23**	3
7¼"	15"	7"	1 pt	PET Recycled Plastic	Black	—	**6WB45**	1
10"	13"	½"	1 qt	HDPE	White	Wombat Portapaint	**45GR58**	10
11"	16½"	2½"	1 qt	PET Recycled Plastic	Clear	—	**3WB63**	1
11½"	15½"	2"	1 qt	Plastic	Silver	—	**24K690**	10
11¾"	15⅛"	3½"	2 qt	Polypropylene	Clear	—	**34AN84**	1
	15⅜"	2¼"	1 qt	PET	Black	—	**24K689**	1
14"	20"	3½"	1 gal	Plastic	Silver	—	**24K691**	1
	20½"	4"	5 qt	PET	White	—	**6TWA9**	1
15"	21"	3"	2 gal	Plastic	Black	—	**19ZN57**	1
18"	14"	7"	1 gal	PET Recycled Plastic	Clear	—	**32UU87**	1

Premier
HANDy Paint Products
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ENCORE Plastics corporation
WOMBAT PORTAPAINT

Paint & Coating Buckets, Pails & Cups

Paint Handheld Cups & Liners are used for mixing small amounts of paints and holding paint for trim work and quick touchups. Paint cup liners are one-use disposable plastic cups that fit into regular paint cups or small pails to keep them clean. Liners are also used for quick color changes between coats.

Paint Mixing & Measuring Paint Pails make it easy to mix paints, pastes, and other adhesives. Pails are imprinted with both standard and metric gradations for accurate measuring. Containers are safe for use with all paints, pastes, and adhesives. Lid is sold separately and allows container to be used for storage.

Paint Roll-Off Buckets, Liners & Lids hold large amounts of paint at one time. **Buckets** have internal grid patterns that allow multiple users to load paint at the same time, increasing efficiency and productivity on large painting jobs. The buckets are easily carried with the ergonomic handle. Time-saving disposable **liners** make cleanup and color changes more efficient. Liners are custom-made for the paint pail and are easily removed for quick disposal. **Lids** are available for use with mix/measure containers, easing storage requirements for unused paint.

6LFH3

49ET15

2FCA5

45GR53

Bucket Type/ Liner Type	Cap.	Material	Overall Depth	Overall Length	Overall Width	Color	Includes	Brand	Item No.	Pkg. Qty.
Paint Handheld Cups & Liners										
Paint Handheld Cups	1 pt	PET Recycled Plastic	4½"	5½"	7½"	Black	—	Premier	**6LFH3**	1
	1 pt	Plastic	6½"	6"	6"	Red	Integrated Magnetic Brush Holder	Handy Paint Products	**49ET15**	1
	1 qt	PET Recycled Plastic	8½"	8½"	7"	Green	Magnetic Brush Holder	Wooster	**1AHE1**	1
	1 qt	Plastic	6"	6"	8"	Red	Integrated Magnetic Brush Holder	Handy Paint Products	**49ET16**	1
Cup Liners	1 qt	Plastic	6¹³⁄₆₄"	5⅝"	6¼"	Clear	—	Handy Paint Products	**49ET17**	6
Paint Mixing & Measuring Paint Pails										
Paint Mix & Measure Pail	5 qt	HDPE	6⅝"	8½"	9¼"	Red	—	Encore Plastics	**6TWC1**	1
	10 qt	HDPE	24⅝"	11¼"	11¼"	White	4 in Paint Brush Well, Handle, Pour Spout	Encore Plastics	**6TWA5**	1
	20 qt	HDPE	13⅝"	12½"	13¾"	White	—	Encore Plastics	**6TWA6**	1
Paint Mix & Measure Pail Cups	1 qt	HDPE	5¼"	5¼"	4⅝"	White	Ounce and Metric Measurements	Encore Plastics	**2FCA3**	24
	2.5 qt	HDPE	6³⁄₁₆"	6⅛"	6¾"	White		Encore Plastics	**2FCA5**	12
	5 qt	HDPE	6⅝"	6½"	8½"	White		Encore Plastics	**4HGR9**	1
Pail Lid	1 qt	LLDPE	⅜"	4⅝"	4⅝"	White	—	Encore Plastics	**2FCA4**	25
	2.5 qt	LLDPE	⅜"	6¾"	6¾"	White		Encore Plastics	**2FCA6**	25
	5 qt	LLDPE	½"	8⅝"	8½"	White		Encore Plastics	**4HGT1**	1
Pail Liners	5 qt	HDPE	6⅛"	9¼"	9¼"	White		Encore Plastics	**6TWC0**	1
Paint Roll-Off Buckets, Liners & Lids										
Roll Off Bucket	1 gal	HDPE	13"	8½"	10"	Gray	Handy Medallion Can-Opener, Masking Tape Holder, Powerful Rare Earth Magnets In The Walls of The Pail, Pro-Style Grid, Shoulder-Strap	Wombat Portapaint	**45GR53**	1
	1 gal	Plastic	16"	16"	9"	Red	Integrated Magnetic Brush Holder, Tool and Rag Holder	Handy Paint Products	**49ET20**	1
	1.5 gal	HDPE	13"	8½"	10"	Teal	Handy Medallion Can-Opener, Masking Tape Holder, Powerful Rare Earth Magnets In The Walls of The Pail, Pro-Style Grid, Shoulder-Strap	Wombat Portapaint	**45GR54**	1
	4 gal	Polypropylene	13½"	13½"	15"	Green	—	Wooster	**14A040**	1
	5 gal	Polypropylene	14"	14"	24"	Green		Wooster	**3UW48**	1
Bucket Lid	—	Polypropylene	13½"	14"	15¼"	Tan		Wooster	**14A041**	1
	—	HDPE	½"	13"	10"	White		Wombat Portapaint	**45GR56**	1
Bucket Lid Molded Liners	1 qt	PET Recycled Plastic	8½"	8½"	7"	Clear	Magnetic Brush Holder	Wooster	**1AHE2**	3
Roll Off Bucket Liners	1 gal	Plastic	17"	15"	8"	White	—	Handy Paint Products	**49ET21**	2
	4 gal	Plastic	13½"	13½"	15"	Clear		Wooster	**46TX53**	5
	5 gal	Plastic	14"	14"	24"	Clear		Wooster	**46TX54**	5

41U063

45YX65 (strainer not included)

45YX59

6LGK7

6LGK6

45YX50

DEROYAL TEXTILES SUPERTUFF HERMITEX® IDEALFOLD®

Paint Strainers and Cheesecloth

Strainers remove clumps, debris, and other contaminants from paint to leave it smooth and fluid before use. They are commonly used to prepare paint for use in a paint sprayer or to strain old cans of paint before starting a paint job.

Paint strainer bags ensure a tight fit over paint buckets. Bags help paint jobs achieve a smooth finish and also help to reduce clogs in paint sprayer equipment.

Cone strainer holder keep strainers in place while pouring paint through strainers.

Cone paint strainers are disposable and for use with all types of paints and stains. Paint pours easily through the mesh. It also protects spray equipment from debris.

Cheesecloth strains debris from paint.

Construc.	Microns	Size	L	W	Brand	Item No.	Pkg. Qty.
Strainers							
Nylon	400 micron	1 Gal.	12"	12½"	DeRoyal	**6LGK3**	2
	400 micron	5 Gal.	21"	20"	DeRoyal	**6LGK4**	2
Tack Cloth	—	—	36"	18"	DeRoyal	**41U063**	3
Paint Strainer Bags							
Polyester Mesh w/ Elastic Top	250 micron	5 Gal.	20"	16"	Supertuff	**45YX55**	25
	250 micron	1 Gal.	11⅜"	10"	Supertuff	**45YX54**	25
	600 micron	1 Gal.	11⅜"	10"	Supertuff	**45YX49**	25
	600 micron	5 Gal.	11⅜"	10"	Supertuff	**45YX53**	25
	600 micron	5 Gal.	19⅜"	16"	Supertuff	**45YX50**	25
Polyester Mesh w/ Plain Top	250 micron	1 Gal.	12"	10⅛"	Supertuff	**45YX56**	25
	250 micron	5 Gal.	20"	17½"	Supertuff	**45YX57**	25
	600 micron	1 Gal.	12"	10⅛"	Supertuff	**45YX51**	25
	600 micron	5 Gal.	20"	17½"	Supertuff	**45YX52**	25
Cone Strainer Holder							
Metal	—	—	10⅝"	10"	Supertuff	**45YX65**	1
Cone Paint Strainers							
Nylon Mesh	125 micron	—	5"	9"	Supertuff	**45YX64**	1000
	190 micron	—	5"	3"	DeRoyal	**41U066**	4
	190 micron	—	5"	9"	Supertuff	**45YX61**	1000
	190 micron	—	5"	9"	Supertuff	**45YX62**	250
	226 micron	—	5"	9"	Supertuff	**45YX58**	1000
	226 micron	—	5"	9"	Supertuff	**45YX59**	250
	226 micron	—	5"	9"	Supertuff	**45YX60**	100

Description	L	W	Brand	Item No.	Pkg. Qty.
Cheesecloth					
Cheesecloth 20/12, Bleached Grade 10, 4 Ply Cotton	80 yd	36 in	Idealfold	**6LGK7**	1
Cheesecloth 20/12, Bleached Grade 10, Cotton	4 yd	36 in	DeRoyal	**41U062**	1
Cheesecloth 24/20, Bleached Grade 40, 4 Ply Cotton	70 yd	36 in	Idealfold	**6LGK8**	1
Cheesecloth 28/24, Bleached Grade 50, 4 Ply Cotton	70 yd	36 in	Idealfold	**6LGK9**	1
Cheesecloth 32/28, Bleached Grade 60, 4 Ply Cotton	60 yd	36 in	Idealfold	**41U060**	1
Cheesecloth 44/36, Bleached Grade 90, 4 Ply Cotton	60 yd	36 in	Idealfold	**41U061**	1
Crimped Cheesecloth, Bleached 3 Ply Cotton	33 yd	10 in	Hermitex	**6LGK6**	12

1YTU3

1YTU4

4FZY2

Item	L	W	H	D	Brand	Item No.
Wallpaper Steamer	—	8 ¾ in	15 in	21 ¾ in	Hiretech	**1YTU3**
Wallpaper Perforator	21 in	—	—	—	Hiretech	**1YTU4**

HIRETECH www.hiretech.biz ZINSSER QUALITY SINCE 1849

Wallpaper Stripper and Perforator

Wallpaper Steamer—Runs up to 90 min. before shutting off automatically. Anti-scald feature provides increased user safety. Rolls easily on 4 casters. 120 VAC.

Wallpaper Perforator—Perforate wallpaper without damaging wall surfaces for easy removal. Angled V head design. 21" steel tube with soft rubber grip handle.

Concentrate Wallpaper Stripper—Enzyme-based formula quickly and easily removes wallcoverings. Concentrated liquid formula that mixes with water.

Item	Base Type	Applic. Method	Product Form	Strength	Container Size	Brand	Item No.
Concentrate Wallpaper Stripper	Solvent	Roller, Sponge, Spray	Liquid	Premium	22 oz	Zinsser	**4FZY2**

A. 2FDK8

B. 2FDJ5

C. 2FDJ6

D. 2FDJ7

E. 2FDJ8

F. 2FDJ9

Wallpaper Hanging Tools

A. Wallpaper Sponge—For general-purpose washing. Use on any surface.

B. Wallpapering Tool Kit—Includes snap-blade knife, pasting brush, smoothing brush, paint and trim straight edge, and seam roller.

C. Seam Roller—Sidearm style reaches into corners. Wood handle.

D. Wood-Handle Paste Brush—All-purpose brush has white, natural tampico bristles.

E. Plastic-Handle Paste Brush—Synthetic poly-fill bristle.

F. Wallpaper Brush—Has heavy filling and short, stiff poly trim.

Key	L	W	Item No.
A	7 ¾ in	3 ½ in	**2FDK8**
B	14 ½ in	7 ⅜ in	**2FDJ5**
C	8 ⅛ in	1 ⅝ in	**2FDJ6**
D	11 ⅞ in	6 ½ in	**2FDJ7**
E	9 ⅞ in	¾ in	**2FDJ8**
F	12 in	¾ in	**2FDJ9**

Key	Description	Material	Color	L (ft.)	W	Thickness (mil.)	Brand	Item No.
Surface Protection, Film								
A.	Adhesive Coated Carpet Protection Film	LLDPE	Clear	200 ft	24 in	2.5	Plasticover	2NYH7
			Clear	200 ft	36 in	2.5	Plasticover	2NYH9
			Clear	500 ft	24 in	2.5	Plasticover	2NYJ1
			Clear	500 ft	36 in	2.5	Plasticover	2NYH6
			Clear	500 ft	48 in	2.5	Plasticover	2NYH8
B.	Carpet Shield Temporary Carpet Protection	Plastic	Clear	100 ft	24 in	2.5	Surface	22DM35
			Clear	200 ft	24 in	2.5	Surface	22DM36
			Clear	500 ft	24 in	2.5	Surface	22DM37
C.	Easy Mask Protective Carpet Film, Adhesive Coated		Clear	200 ft	24 in	2	Trimaco	58UT77
			Clear	200 ft	36 in	2	Trimaco	58UT79
D.	One Tuff Leakproof/ Slip Resistant Surface Protection	Polyester, Pulp	Blue	50 ft	2 ft	10	Trimaco	36TY70
			Blue	100 ft	2 ft	10	Trimaco	36TY71
			Blue	200 ft	2 ft	10	Trimaco	36TY72
			Blue	200 ft	4 ft	10	Trimaco	36TY73
E.	SuperTuff Leakproof/Slip Resistant Surface Protection	PET	Gray	50 ft	3 ft	100	Trimaco	36TY74
			Gray	100 ft	3 ft	100	Trimaco	36TY75
F.	AquaShield Fire Retardant Surface Protection	LDPE	Teal	186 ft	3 ft	25	Trimaco	36TY69
			Teal	393 ft	3 ft	10	Trimaco	36TY68
G.	Tape & Drape Self-Adhesive Containment Film	Polyethylene	Clear	72 ft	2 ft	0.5	Trimaco	36ED17
			Clear	72 ft	4 ft	0.5	Trimaco	36ED18
			Clear	72 ft	6 ft	0.5	Trimaco	36ED19
			Clear	72 ft	8 ft	0.5	Trimaco	36ED20
			Clear	90 ft	2 ft	0.4	Trimaco	36ED21
			Clear	100 ft	1 53⁄64 ft	0.4	Trimaco	36ED22
H.	Duct Cover Shield Self-Adhesive Film	LLDPE	Blue	200 ft	3 ft	3	Surface	10C559
			Blue	200 ft	24 in	3	Surface	10C558
I.	Toilet Paint Protection	Polypropylene	White	12 ft	9 ft	—	Trimaco	36ED16
Surface Protection, Paper								
J.	Builder Board Floor Protection Board	Paper	Brown	100 ft	38 in	45	Surface	10C551
K.	Builders Construction Flooring Paper, Non-Adhesive		Brown	140 ft	35 in	8	Trimaco	58UU58
L.	Kraft Shield Floor Protection Paper		Natural	144 ft	35 in	—	Surface	36C450
M.	X-Board Floor Protection	Paperboard	Brown	50 ft	35 in	22	Trimaco	45YX47
			Brown	100 ft	35 in	22	Trimaco	45YX48
Window Shield Self-Adhesive Film								
	Short-Term (Up to 45 Days), 2 mil.	Polyethylene	Blue	250 ft	24 in	1.5	Surface	10C548
			Blue	600 ft	24 in	1.5	Surface	10C546
			Clear	250 ft	3 ft	1.5	Surface	10C547
	Long-Term (Up to 1 yr.), 3.5 mil.	PVC Film	Blue	330 ft	24 in	3	Surface	10C550
Carpet Film Applicator								
	Adjustable, For Use With 24", 36", and 48" Rolls	Steel	Blue	—	24, 36 or 48"	—	Plasticover	18F254
Dust Containment Pole								
	12'H, pkg. of 2 - For Use With Plastic Sheeting	Aluminum	Silver	—	2 in	—	Trimaco	52CC87

22DM35

10C551

10C548

Plasticover · TRIMACO

Surface Protectors

Surface Protection, Film—
A. Self-adhesive film applies quickly and removes easily. Nonslip surface grips carpet firmly. Tear- and puncture-resistant.

B. Clear, self-adhering protective film for all types of carpeting.

C. Reverse-wound nonskid film is easy to apply and protects against spills, dirt, and foot traffic. Removes with no residue.

D. Great for painting and staining. The cloth side absorbs while the coated side is leak-resistant.

E. Heavy-duty, absorbent, slip-resistant, and reusable. Long-lasting and easy-to-clean.

F. Fire-retardant, leakproof, durable, and reusable.

G. Pre-taped along one edge of high-density masking film. Perfect for use in areas when painting.

H. Protective film for HVAC ducts. Helps to meet SMACNA guidelines.

I. Reusable cover holds in place with elastic and fits most standard toilets.

Surface Protection, Paper—
J. Features liquid shield technology that defends floors and other hard surfaces from water, paint, and mud.

K. Economical kraft construction paper, in easy-to-handle rolls, is large enough for several projects.

L. Construction-grade paper protects flooring, cabinets, and counter tops from foot traffic, paint, and spills.

M. Breathable to allow floors to continue the curing process.

Window Shield Self-Adhesive Film—Provide protection to windows and glass.

Carpet Film Applicator—Features a roller design that allows for fast application. Steel construction adjusts to fit 24", 36", and 48" rolls.

Dust Containment Pole—Use with plastic sheeting to keep debris and dust contained to the work area.

Description	Material	Color	L (ft.)	W (ft.)	Thickness (mil.)	Brand	Item No.
Drop Cloth	Canvas	Off White	12 ft	9 ft	—	—	5H908
		Off White	15 ft	12 ft	—	—	5H909
Drop Cloth Runner		Off White	15 ft	4 ft	—	—	5H910
Economical Drop Cloth	LDPE	Clear	9 ft	12 ft	2	Trimaco	36ED25
		Clear	10 ft	20 ft	1	Trimaco	36ED24
		Translucent	9 ft	12 ft	0.7	Trimaco	36ED23
Eliminator Leakproof and Slip Resistant Drop Cloth	PVC	White	4 ft	12 ft	13	Trimaco	36TY61
		White	4 ft	15 ft	13	Trimaco	36TY62
		White	9 ft	12 ft	13	Trimaco	36TY59
		White	12 ft	15 ft	13	Trimaco	36TY60
One Tuff Leakproof and Slip Resistant Drop Cloth	Polyester, Pulp	Blue	4 ft	15 ft	10	Trimaco	36TY65
		Blue	6 ft	8 ft	10	Trimaco	36TY66
		Blue	9 ft	12 ft	10	Trimaco	36TY63
		Blue	12 ft	15 ft	10	Trimaco	36TY64
StayPut with Surface Grip & Spill Block Drop Cloth	Anti-Slip Canvas	Tan	8 ft	6 ft	47	Trimaco	45YX44
		Tan	12 ft	4 ft	47	Trimaco	45YX43
		Tan	12 ft	9 ft	47	Trimaco	45YX42
SuperTuff Double Guard Drop Cloth	Paper, Plastic	White	10 ft	4 ft	47	Trimaco	45YX46
		White	12 ft	8 ft	47	Trimaco	45YX45
SuperTuff Leakproof and Slip Resistant Drop Cloth	PET	Gray	3 ft	6 ft	100	Trimaco	36TY67

5H908

36ED23

TRIMACO

Drop Cloths

Trimaco—Aqua Shield is fire retardant, leakproof, and durable. Eliminator is a durable professional-grade butyl drop. One Tuff drop features a cloth side that absorbs while the coated side is leak-resistant. Stay Put canvas is 300% more slip-resistant than canvas. SuperTuff Double Guard is absorbent paper with a leak-resistant bottom. SuperTuff Leakproof is heavy-duty and absorbent.

Approved Vendor—Washable, heavy-duty 8-oz. canvas. Double-stitched with mildew-resistant thread. Finished hems and seams. Great for indoor and outdoor painting projects.

Protective Paint Clothing

DEROYAL TEXTILES · TRIMACO

Description	Color	Brand	Item No.
Canvas Spray Hood, w/Elastic Chin Strap	Natural	—	2AJT9
Cotton Paint Spray Hood	Natural	DeRoyal	6LGK5
Spray Suit - M	White	Trimaco	54DD74
Spray Suit - L	White	Trimaco	54DD75
Spray Suit - XL	White	Trimaco	54DD76
Spray Suit - 2XL	White	Trimaco	54DD77

6LGK5

For additional Spray Booths, Power Booths, and Filters, go to Grainger.com.

1MAH6

Bench and Floor Spray Booths

- 18-ga. galvanized sheet steel construction
- Tube axial exhaust fan
- 3-phase, TEFC 208/230/460V, 1725 rpm, 60 Hz, tri-voltage motor with variable pitch pulley
- 48", 4-tube, 120/277V, fluorescent light fixtures, T8 color-corrected tubes included (6-tube fixtures available separately)

Booths are designed for either top- or rear-exhaust systems. Roll filter media is sold separately on page 3058. Comply with NFPA 33, OSHA, EPA, NEC, and BOCA.

Inside Working Dim.			Overall Dim.			Light Fixtures		Motor	SCFM @	Mfr.	Item
W	H	D	W	H	D	Quantity	Fan Size	HP	¼ In. SP	Model	No.
Bench Paint Spray Booth											
5 ft	4 ft	3 ft	5 ft 4 in	7 ft 2 in	5 ft 2 in	1	18 in	½ hp	2,000 scfm	GIFPG-05	**1MAH5**
Floor Paint Spray Booth											
6 ft	7 ft	6 ft	6 ft 4 in	7 ft 2 in	9 ft 2 in	1	24 in	1 hp	5,250 scfm	GIFPG-060706	**1MAH6**
8 ft	7 ft	6 ft	8 ft 4 in	7 ft 2 in	9 ft 2 in	1	24 in	2 hp	7,000 scfm	GIFPG-080766	**1MAH7**
8 ft	8 ft	6 ft	8 ft 4 in	8 ft 2 in	9 ft 2 in	1	30 in	2 hp	8,000 scfm	GIFPG-08086	**1MAH8**
10 ft	8 ft	6 ft	10 ft 4 in	8 ft 2 in	9 ft 2 in	2	30 in	3 hp	10,000 scfm	GIFPG-100806	**1MAH9**

Description	For Use With	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.
Accessories						
Exhaust Stack Kit	Mfr. Model No. GIFP-5	—	—	—	ES18	**5ZG40**
Exhaust Stack Kit	GIFP-876, Mfr. Model No. GIFP-676	—	—	—	ES24	**5ZG41**
4-Light Spray Booth Light Fixture	Mfr. Model No. GIFP-5, GIFP-676, GIFP-876, GIFP-886, GIFP-1086, PYRG-140924-2408	18 ⅞ in	2 ¼ in	—	LABW12-4	**2TRN9**
6-Light Spray Booth Light Fixture	Mfr. Model No. GIFP-5, GIFP-676, GIFP-876, GIFP-886, GIFP-1086	18 ⅞ in	2 ¼ in	—	LABW12-6	**2TRP1**
Booth Box Mini Single Compartment, Magnetic	—	14 in	7 ¼ in	6 in	218-006	**2TRP3**
GUNHANGER Single Spray Gun Holder, Magnetic	—	3 in	—	5 in	218-004	**2TRP4**
GUNHANGER 4-Position Spray Gun Holder, Magnetic	—	7 ½ in	18 ¼ in	7 in	218-011	**2TRP5**
GUNHANGER Hose and Double Spray Gun Holder, Magnetic	—	7 ½ in	18 ¼ in	7 in	218-013	**2TRP6**
Booth Shelf WM 3-Position, Magnetic	—	14 in	10 in	8 ½ in	218-009	**2TRP7**

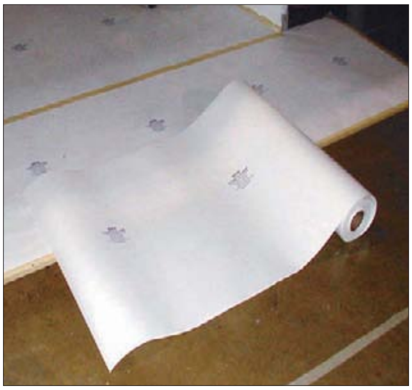
12T024

Dirt Trap Surface Protection System

- White color

Adhesive-backed, non-woven protection material protects paint booth walls and floor, traps dust, dirt, and overspray, and brightens work areas.

Description	Item No.
Dirt Trap Protection Material	
14 inW x 300 ft	**12T024**
28 inW x 300 ft	**12T025**
56 inW x 300 ft	**12T026**
Dispensers	
Dirt Trap Dispenser for No. 12T025	**12T029**
Dirt Trap Floor Applicator for No. 12T025	**12T032**
Dirt Trap Floor Applicator for No. 12T026	**12T031**



Flame-Retardant Floor Paper

Spray Booth Paper and Filters

RECEPTOR FILTER

Superior overspray holding capacity results in fewer filter changes. Green layer is made from 100% recycled PET green soda bottles.

1" INTAKE AIR FILTER PAD

Tacky pressure sensitive adhesive filter panel is great for mixing rooms and cross-draft and semi-downdraft spray booths.

2" INTAKE FILTER PAD

Filter removes 100% of visible dust and micron particles. UL Listed, Class 2923X for flammability.

AIR FILTER PAD

Designed to help reduce operating costs and for virtually all spray applied industrial coatings. Biodegradable and can be incinerated. Ideal for adhesives, clear coats, epoxies, fiberglass, sealers, stains, and urethanes. Meets UL Class 2 Standards for Flammability.

GFS WAVE EXHAUST FILTERS

Provide full-depth loading with low runoff and exceptional paint holding capacity. Minimal particulate emissions and high paint removal of all coating types, including clear and waterborne. 6TWA3 comes in a roll. Filter material complies with UL 900, NFPA, and OSHA requirements.

FLAME-RETARDANT FLOOR PAPER

Eliminates scraping, stripping, and scrubbing to improve plant efficiency and assure compliance with OSHA requirements for safe cleaning and residue removal. Antislip surface; bright white color improves booth visibility.

Description	Nominal Dim. L	W	H	D	Brand	Mfr. Model	Item No.	Pkg. Qty.
Filters								
Receptor Filter Pad	—	20 in	20 in	2 in	Binks	29-3111	**5PVG1**	25
Intake Air Filter Pad	—	20 in	20 in	1 in	Binks	29-486	**6URD8**	20
Intake Filter Pad	—	48 in	20 in	2 in	Global Finishing Solutions	217-200	**6TWA2**	8
Air Filter Pad	30 ft	30 ft	30 in	2 in	Binks	29-2186	**489N72**	1
GFS Wave Exhaust Filter Roll	24 ft	24 ft	30 in	2 in	Global Finishing Solutions	FIL-ERP-3024-W	**6TWA3**	1
GFS Wave Exhaust Filter Pad	—	20 in	20 in	2 in	Global Finishing Solutions	FIL-EPP-2020-W	**2TRP8**	30
GFS Wave Exhaust Filter Pad	—	25 in	20 in	2 in	Global Finishing Solutions	FIL-EPP-2025-W	**6TWA1**	30

Paper Weight	Nominal Dim. L (ft.)	W (in.)	Brand	Mfr. Model	Item No.	Pkg. Qty.
Flame-Retardant Floor Paper						
80 lb	300 ft	36 in	Binks	29-863	**5PB41**	1
80 lb	300 ft	60 in	Binks	29-865	**41U072**	1
100 lb	300 ft	36 in	Binks	29-872	**5PVG2**	1

Spray Booth Coatings

- Applies with airless, HVLP, or conventional spray equipment
- Environmentally friendly formula is VOC < 164g/l

Nonflammable, water-based coatings protect against hazardous overspray accumulation. Dries quickly to form a flexible film that can be cleaned of overspray with just soap and water.

Color	Size	Dry Time	Coverage	Mfr. Model	Item No.
Clear	1 gal	30 to 60 min	200 to 270 sq ft/gal	29-248	**5PB42**
White	5 gal	1 to 2 hr	525 to 875 sq ft/gal	29-249	**1ZLB1**

SPEEDAIRE

Production Paint Tanks

- 2½-gal. capacity

Tanks can be used with most pressure-feed spray guns, and 1-gal. paint can may be placed directly in the tank. Include pressure regulator, pressure gauge, safety valve, and 15-ft. air hose.

6Z899

1ZMG5

Material	Max. Pressure	Item No.
Aluminum Tank Lid, Stainless Steel Tank	50 psi	**6Z899**
Galvanized Steel	50 psi	**1ZMG5**

Description	For Use With	Item No.	Pkg. Qty.
Replacement Parts			
Lid Gasket	6Z899	**4F967**	2
Paint Tank Liners	1ZMG5, 6Z899	**1ZMG1**	6

BINKS

ASME Paint Tanks

- Meet OSHA regulations for using flammable and combustible materials
- 2⅘-gal. capacity

ASME-coded, zinc-plated pressure tanks provide an economical option for supplying paint. Ideal for use with solvent-based coatings.

41U068—Includes 1 regulator and 1 liner.

2TKN8 and 6MVG3—Include 2 regulators and liner. 6MVG3 includes stainless cover and fluid outlet.

2TKN8

6URD2—Includes direct drive agitator and 2 regulators.

5PVF2—Includes Compact Spray Gun 5PVE9, 25-ft. air hose , 25-ft. fluid hose, and 15-ft. air supply hose assembly.

2TKN9—Includes Conventional Spray Gun 19ZF51 with air cap and fluid nozzle, pressure tank with 2 regulators, 25-ft. fluid and air hoses, and 15-ft. air supply hose assembly.

Description	Mfr. Model	Item No.
Paint Tank	83C-210	**41U068**
	83C-220	**2TKN8**
	83Z-220	**6MVG3**
	83C-221	**6URD2**
Paint Tank w/ Spray Gun	98-3146	**5PVF2**
	98C-357	**2TKN9**
Tank Liner For Use with 2TKN9	PT-78-K60	**6URE1**

1ZLA9

BINKS DeVILBISS

2-Qt. Pressure-Feed Cup Outfit

Cup-and-gun package can be used with all medium-viscosity materials. Air regulator can make on-the-spot adjustments. 14" spray pattern. Use with minimum 5-HP compressor. Includes 5-ft. fluid hose, 5-ft. air hose, 2-qt. cup, and Conventional Spray Gun 5PB39.

Air Consumption	Nozzle Size	Mfr. Model	Brand	Item No.
14.3 cfm @ 50 psi	0.046 in /1.2mm	98-1067	Binks	**1ZLA9**
Replacement Parts				
Pressure Cup Gasket		80-11	Binks	**1ZLG3**
Spray Gun Paint Cup for 1ZLA9		80-4	Binks	**1ZLG9**
Air Regulator Repair Kit w/Gaskets and O-Rings		KB-428-1	DeVilbiss	**1ZLH2**

HYDE
For a better finish, start with HYDE.

Airless Spray Gun Extension Poles

AnglePRO—Allow access to hard-to-reach areas. Slide handle provides tip control for angles up to 145°. For use with all airless spray-tips.

QuickReach—Telescoping poles give maximum extension for painting exteriors, cathedral ceilings or areas normally reached on a ladder. Can be used with all major brands of spray guns.

1TKJ8

Trade Name	Item	L	Mfr. Model	Item No.
AnglePRO	Spray Gun Extension Pole	3 ft	28260	**1TKJ8**
		5 ft	28270	**1TKJ9**
QuickReach	Telescoping Spray Gun Extension Pole	5 ½ to 8 ½ ft	28680	**1TKJ6**
		7 ½ to 12 ft	28690	**1TKJ7**

BINKS

Airless Spray Gun and Tips

Airless needle creates high quality finish with a variety of materials and handles pressure up to 7500 psi. Stress reducing 2-finger trigger with ergonomic handle and 2 fluid inlet options.

Airless Twist Tips—Tungsten carbide tips offer long life and a high quality finish with consistent spray pattern. Other sizes are available on Grainger.com.

41U073

Description	Max. Pressure	Inlet Size	Item No.
Airless Spray Gun	7,500 psi	¼ in	**41U073**
Airless Spray Gun Twist Tips			
Tip Size 0.015 in, Pattern Size 10 in			**444P02**
Tip Size 0.017 in, Pattern Size 8 in			**444N98**

3M

3M PPS Series 2.0 Spray Cup System Kits

Allows painters a more efficient method of mixing/measuring, filtering, and spraying; applying paint that is faster, easier, and cleaner. This disposable system provides a new cup in every lid and liner kit, prohibiting paint build-up. 4-pt. connection with quarter-turn lid locking system comes with every lid. Domed lid with full diameter filter helps reduce spitting, improving flow and consistency.

478A74

478A73

Cap.	Includes (32) Sealing Plugs, (50) Disposable Lids, (50) Liners, 125 Micron Filter: Mfr. Model	Item No.	Includes (32) Sealing Plugs, (50) Disposable Lids, (50) Liners, 200 Micron Filter: Mfr. Model	Item No.
3 fl oz	26328	**478A82**	26028	**478A81**
6.8 fl oz	26314	**478A80**	26114	**478A79**
13.5 fl oz	7100134646	**478A78**	26112	**478A77**
22 fl oz	26301	**478A76**	26000	**478A75**
28 fl oz	26325	**478A74**	26024	**478A73**

SPEEDAIRE

Airbrush Kits

- 20 to 50 psi

KIts include air brush, head wrench, and impact resistant molded case.

48PX91

Nozzle Size	Free Air CFM @ 40 psi	Item No.
Gravity Feed		
28 mm	0.3 cfm	**48PX91**
Siphon Feed		
0.013 in	0.3 cfm	**48PX90**

SPEEDAIRE

48PX87

48PX84

48PX85

48PX83

2Z363

BINKS

1ZLA7

19ZF50

32KL79

4YP08

2TKP1

DEVILBISS

4TH06

13E903

5PVE9

5PVF1

5PVF0

6URD6

4TH07

41U070

6URD7

13E902

Conventional Spray Guns and Accessories

Description	Fluid Delivery Type	Paint Viscosity Optimum Range	Nozzle Size	Air Consumption	Pattern Size	Cup Capacity	Mfr. Model	Item No.
Speedaire								
Conventional Spray Gun	Pressure	Low to High	0.045 in /1.2mm	4.7 cfm @ 40 psi	11 in	No Cup	48PX87	**48PX87**
Conventional Spray Gun	Pressure	Low to High	0.047 in /1.2mm	9.3 cfm @ 40 psi	11 in	No Cup	48PX82	**48PX82**
Conventional Spray Gun	Siphon	Low to Medium	0.063 in /1.6mm	4.4 cfm @ 40 psi	11 in	1 qt	48PX86	**48PX86**
Conventional Spray Gun	Siphon	Low to Medium	0.070 in /1.8mm	2.8 cfm @ 40 psi	9 in	6.7 oz	48PX84	**48PX84**
Conventional Spray Gun	Siphon	Low to Medium	0.070 in /1.8mm	4.4 cfm @ 40 psi	11 in	1 qt	48PX85	**48PX85**
Conventional Spray Gun	Siphon	Low to Medium	0.070 in /1.8mm	7.2 cfm @ 40 psi	10 in	1 qt	48PX83	**48PX83**
Conventional Spray Gun	Siphon/Pressure	Low to High	0.050 in /1.3mm	2.0 cfm @ 40 psi	6½ in	1 qt	2Z363	**2Z363**
Conventional Spray Gun	Siphon/Pressure	Low to High	0.055 in /1.4mm	5.3 cfm @ 40 psi	8 in	1 qt	35XR81	**35XR81**
Binks								
Engine Cleaning Gun, Model 140B for use with Solvents	Siphon		0.128 in /3.3mm	14.0 cfm @ 50 psi		No Cup	6530-0000-1	**1ZLA7**
Conventional Spray Gun, Model 2100 Series	Pressure	Low to Medium	0.046 in /1.2mm	14.3 cfm @ 50 psi	14 in	No Cup	2101-2800-7	**19ZF51**
Conventional Spray Gun, Model 2100 Series	Siphon	Low to Medium	0.070 in /1.8mm	5.0 cfm @ 50 psi	10 in	No Cup	2101-4307-5	**19ZF50**
Conventional Spray Gun, 4 oz. - Trophy Touch-Up LVMP	Gravity	Medium	0.045 in /1.2mm	7.8 cfm @ 30 psi	4 in to 6 in	4 oz	1466-12LV-B1S	**32KL82**
Conventional Spray Gun, 30 oz. - Trophy Series LVMP	Gravity	Medium	0.055 in /1.4mm	10.6 cfm @ 30 psi	8 in to 12 in	30 oz	2466-14LV-23SG	**32KL80**
Conventional Spray Gun - Trophy Series LVMP	Pressure	Medium	0.055 in /1.4mm	10.6 cfm @ 30 psi	8 in to 12 in	No Cup	2465-14LV-23S0	**32KL79**
Siphon Gun, Model 7 Series for High-Volume, Maintenance, and Auto	Siphon	Very Low to Medium	0.070 in /1.8mm	11.5 cfm @ 50 psi	10 in	1 qt	6100-1808-9	**4YP08**
Siphon Gun, Model 2100 Series, includes 1 qt. cup	Siphon	Low to Medium	0.070 in /1.8mm	12.1 cfm @ 50 psi	10½ in	1 qt	98-2650	**2TKP1**
Binks Accessories								
1-qt. Cup Assembly							TGC-545	**23UY69**
2-qt. Pressure Cup with Agitator							80-651	**41U069**
2-qt. Cup Liners (Pk. of 12)							80-356	**41U075**
DeVILBISS								
Pressure Gun, JGA Series for Large Applications	Pressure	Very Low to High	0.063 in /1.6mm	12.0 cfm @ 45 psi	10 in	No Cup	JGA-510-90FW	**4TH06**
Gravity Gun, FLG4 Series for use with Topcoats and Primers	Gravity	Medium	0.059 in /1.5mm	10.4 cfm @ 40 psi	12 in	24 oz	FLG-CNG-115	**13E903**
Compact Trans Tech LVMP Pressure Gun	Pressure	Very Low to Medium	0.055 in /1.4mm	14.5 cfm @ 29 psi	10½ in	No Cup	COM-PS522G-14-00	**5PVE9**
Compact Trans Tech LVMP Gravity Gun	Gravity	Very Low to Medium	0.055 in /1.4mm	14.5 cfm @ 29 psi	14 in	1 L	COM-G510G-14-02	**5PVF1**
Compact Trans Tech LVMP Siphon Gun	Siphon	Low to Medium	0.070 in /1.8mm	10 cfm @ 25 psi	10½ in	1 qt	COM-PS510G-18-01	**5PVF0**
Compact Conventional Gravity Gun	Gravity	Very Low to Medium	0.055 in /1.4mm	12 cfm @ 50 psi	7 29/32 in	1 L	COM-G430-14-02	**6URD6**
Compact Conventional Pressure Gun	Pressure	Very Low to Medium	0.055 in /1.4mm	18 cfm @ 50 psi	12 in	No Cup	COM-PS497-14-00	**6URD5**
Compact Conventional Siphon Gun	Siphon	Very Low to Medium	0.070 in /1.8mm	12 cfm @ 50 psi	7 29/32 in	1 qt	COM-PS430-18-01	**6URD7**
Siphon Gun, EGA Series for use with Siphon and Pressure Systems	Siphon/Pressure	Low to Medium	0.042 in /1.1mm	3 cfm @ 30 psi	10 in	8 oz	EGA-503-390F	**41U070**
Siphon Gun, JGA Series for all Paints	Siphon	Very Low to Medium	0.070 in /1.8mm	14.0 cfm @ 60 psi	13 in	1 qt	JGA-654	**4TH07**
Siphon Gun, FLG4 Series for use with Topcoats and Primers	Siphon	Medium	0.059 in /1.5mm	10.4 cfm @ 40 psi	12 in	24 oz	FLG-CNS-115	**13E902**
DeVILBISS Accessories								
2-qt. Remote Pressure Cup with Regulator							KB-555	**4TH11**
6-ft. Air/Paint Hose Assy. for 4TH11 Cup							KB-4006	**4TH31**
Disposable Liner Kit for Gravity Feed Cups (Pk. of 48)							OMX-70-K48	**4TH28**
Disposable Liner Kit for 4TH11 Cup (Pk. of 20)							KK-5051	**4TH30**
Gun Mounted Air Adjusting Valve with Gauge							HAV-501	**4TH22**
Gun Mounted Air Regulator with Gauge							HARG-510	**4TH15**

High Volume, Low Pressure (HVLP) Spray Guns

Description	Fluid Delivery Type	Paint Viscosity Optimum Range	Nozzle Size	Air Consumption	Pattern Size	Cup Capacity	Mfr. Model	Item No.
Binks								
HVLP Spray Gun Kit (includes SV50 Full-Size Gun with 1.3mm Fluid Tip, 1.8mm Extra-Fluid Tip, and Touch-Up Gun with 1.1mm Fluid Tip)	Gravity	Very Low to Medium	0.051 in /1.3mm	12.0 cfm @ 30 psi	10 in	1 qt 8 oz	98-3170	**2TKP4**
Trophy Series	Pressure	Medium	0.055 in /1.4mm	15.5 cfm @ 10 psi	8 in to 12 in	0 oz	2465-14HV-32S0	**32KL77**
Trophy Series	Gravity	Medium	0.055 in /1.4mm	15.5 cfm @ 10 psi	8 in to 12 in	30 oz	2466-14HV-32SG	**32KL78**
Trophy Series Touch Up	Gravity	Medium	0.045 in /1.2mm	6.4 cfm @ 10 psi	4 in to 6 in	4 oz	1466-12HV-C1S	**32KL81**
DeVILBISS								
JGA Series Gun with 1-qt. Cup	Siphon	Very Low to Medium	0.086 in /2.2mm	22.0 cfm @ 50 psi	10 in	1 qt	JGA-660	**4TH17**
JGA Series Gun	Pressure	Very Low to Medium	0.042 in /1.1mm	11.0 cfm @ 40 psi	11 in	—	JGA-510-98FX	**4TH18**
JGA Series Gun	Pressure	Low to High	0.070 in /1.8mm	22.0 cfm @ 50 psi	10 in	—	JGA-510-57DE	**4TH19**
EXL Series Gun	Gravity	Very Low to Medium	0.070 in /1.8mm	16.0 cfm @ 30 psi	12 in	1 qt	EXL-620G-18	**5AB33**
Compact Mini Touch-Up Gun	Gravity	Very Low to Medium	0.045 in /1.2mm	4.5 cfm @ 29 psi	8 in	8 oz	COMM-HS1-12	**4YEG3**
EGA Series Gun	Siphon/Pressure	—	0.070 in /1.8mm	3 cfm @ 30 psi	10 in	8 oz	EGHV-531-397E	**41U071**
FLG4 Series Gun	Siphon	Medium	0.086 in /2.2mm	13.5 cfm @ 23 psi	11 in	24 oz	FLG-HVS-322	**13E904**
FLG4 Series Gun	Gravity	Medium	0.059 in /1.5mm	13.5 cfm @ 23 psi	12 in	24 oz	FLG-HVG-315	**13E905**
FLG4 Series Gun	Pressure	Medium	0.059 in /1.5mm	13.5 cfm @ 23 psi	13 in	—	FLG-HVP-315	**13E906**
Compact Series Gun	Pressure	Very Low to Medium	0.055 in /1.4mm	17.7 cfm @ 22 psi	15⁴⁵⁄₆₄ in	—	COM-PS507B-14-00	**6URD3**

Airless Line Stripers

- See striping paints on page 1610

LineLazer 3400—This 1-gun, airless striper is perfect for small parking lots, schools, park and recreation departments, factory safety lines, and re-stripe jobs.

LineLazer 3900—This 2-gun airless striper is ideal for parking lots, roadways, athletic fields, and factory safety lines.

LineLazer 5900—Designed for larger striping jobs such as large parking facilities, roadways, athletic fields, and factory lines.

LineLazer ES—Powered by a high-output battery which allows it to be used safely indoors for factory safety lines as well as jobs where noise is a concern. 53JT70 includes 2 batteries.

Description	For Use With Grainger Item Number	Item No.
Accessories		
LineLazer Tip Medium Film	48YD42, 48YD43, 48YD44, 48YD45, 53JT67	**2WCW1**
LineLazer Tip Heavy Film	48YD42, 48YD43, 48YD44, 48YD45, 53JT67	**2WCW2**
Inlet Strainer	48YD42, 48YD43, 48YD44, 48YD45	**2LVU8**
Manifold Filter	48YD42, 48YD43, 48YD44, 48YD45, 53JT67	**2LVX1**
Pump Repair Kit	48YD42, 48YD43	**2LVU3**
Pump Repair Kit	48YD44, 48YD45	**2LVU4**

Description	Flow Rate	Second Gun Outlet	Waterborne Compatible	Max. Pressure	Max. Tip Size	Body Material	Mfr. Model	Item No.
LineLazer 3400, 1-Gun	0.75 gpm	No	Yes	3,300 psi	0.027 in	Steel	25M224	**53JT67**
LineLazer V 3900 Standard - 2 Manual Guns	1.2 gpm	Yes	Yes	3,300 psi	0.036 in	Metal	17H450	**48YD42**
LineLazer V 3900 Standard - 2 Automatic Guns	1.2 gpm	Yes	Yes	3,300 psi	0.036 in	Metal	17H453	**48YD43**
LineLazer V 5900 Standard - 2 Manual Guns	1.6 gpm	Yes	Yes	3,300 psi	0.043 in	Metal	17H455	**48YD44**
LineLazer V 5900 Standard - 2 Automatic Guns	1.6 gpm	Yes	Yes	3,300 psi	0.043 in	Metal	17H458	**48YD45**
LineLazer ES 1000 - 2 Automatic Guns	0.6 gpm	Yes	Yes	3,300 psi	0.023 in	Steel	25M226	**53JT69**

High Volume, Low Pressure (HVLP) Sprayers

CS MAX HVLP SPRAYER SYSTEM
- 2-Stage

Variable air pressure control reduces overspray and improves precision.

CAPSPRAY 75
- 3-Stage

Turbine features 25-ft. air hose. Use with stains, lacquers, enamels, and most multicolor coatings.

CAPSPRAY 95
- 4-Stage

Turbine features 30-ft. air hose.

HVLP POWER CART

Features 2½-gal. pressure pot and 30-ft. hose. For long applications use with 2PCX5 and 2PCX1.

Description	No. of Stages	Voltage	Amps	Max. Flow	Max. Pressure	Tank Cap.	Mfr. Model	Brand	Item No.
HVLP Paint Sprayer									
CS Max HVLP Sprayer System	2	115V AC	4.5 A	80 cfm	2.7 psi	1.5 qt	0518080	Wagner	**13C768**
CAPSPRAY 75	3	120V AC	10.7 A	90 cfm	7.5 psi	1 qt	0524031	Titan	**2PCX5**
CAPSPRAY 95	4	120V AC	13.8 A	90 cfm	9.5 psi	1 qt	0524032	Titan	**2PCX1**
Capspray Cart									
HVLP Power Cart	—	—	—	—	—	—	0524000	Titan	**48PE12**

Disposable Tank Liner

Straight-sided insert designed to fit a 2.8 gallon spray paint pressure feed tank 2TKN8. Lip snaps over the tank to prevent leakage between the insert and tank.

Description	Item No.
2.8 gal. Disposable Pressure Tank Liner, Pkg. of 10 Linear High Density Polyethelene, 9½"L, 10¹¹⁄₃₂"W, Thickness 0.01 Mil	**5PB40**

Scan. Order. Done.
Details on page A1.

Line Stripers and Accessories

TITAN

Clutch-driven piston line striper. Stainless steel rotating ball valves keep debris from sticking. Feature self-adjusting, 1-pc. static packing with wiper lip for longer life. Subaru gas engines operate quietly and start easily. Carry 5-gal. paint pail (not included). For a complete selection of striping paint, see page 1610.

PowrLiner 850—Unit features a reversible gun mount to stripe off either front or rear tire. Designed with folding handle and poly tires for smooth operation.
- **Max. gpm: 0.33**
- **Max. psi: 3000**

PowrLiner 3500—Delivers a perfect line on difficult applications like smooth concrete and field and pavement marking. No piston or packings, cylinder or clutch to wear or burn out. Features the Sureflo pusher valve that makes priming easy. Perfect for spraying coatings prone to shearing.
- **Max. gpm: 0.92**
- **Max. psi: 3300**
- **Honda motor**

Description	For Use With	Holds	Includes	Mfr. Model	Item No.
Airless Line Stripers					
PowrLiner 850	Latex Traffic Paint	5 gal of Material	LX-40 Spray Gun	0290005	**35YL16**
PowrLiner 3500	Latex and Solvant Based Traffic and Turf Paint	5 gal	Pump, RX-80 Spray Gun	0537015	**54TV09**

Description	For Use With	Includes	Pattern Size	Tip Size	Mfr. Model	Item No.
Accessories						
Handibead Bead Dispenser Pack	0290005, 0290009, Mfr. No. 0290004	Medium Nozzle and Large Nozzle, Small Nozzle	—	—	0290953A	**35YL08**
Windguard Spray Shield, 12 in Size	0290004, 0290005, 0290009	Mounting Hardware	—	—	0290623	**35YL09**
Airless Spray Gun Tip	0290004, 0290005, Mfr. No. 0290009	Collar and Seal	4 in to 6 in	0.023 in	694-2308623	**35YL11**
Airless Spray Gun Tip	0290004, 0290005, Mfr. No. 0290009	Collar and Seal	4 in to 6 in	0.021 in	694-2108621	**35YL12**
Airless Spray Gun Tip	0290004, 0290005, Mfr. No. 0290009	Collar and Seal	4 in to 6 in	0.019 in	694-1908519	**35YL13**
Airless Spray Gun Tip	0290004, 0290005, Mfr. No. 0290009	Collar and Seal	4 in to 6 in	0.017 in	694-1708517	**35YL14**
Inlet/Outlet Valve Replacement Kit	Mfr. No. 0537015	—	—	—	0537903	**54TV10**
Laser Pointer	Mfr. No. 0537015	—	—	—	0290175	**54TV14**

GRACO

Airless Paint Sprayers

Spray a wide range of coatings. ProConnect Pump Removal System allows for fast, on-the-job pump swap-out. Compatible with 1- and 5-gal. containers. Includes contractor-grade metal gun, RAC X reversible spray tip, and 50 ft. of BlueMax II hose.

390 PC Stand—Lightweight, reliable stand features variable pressure adjustment and an offset handle.

FinishPro GX19 Stand—Features the ProXChange Pump, the fast and easy on-the-job pump replacement, no tools required.

FinishPro II 395 PC Cart—Sprays in both airless and air-assisted airless modes for ultimate versatility. Includes contractor-grade metal air-assist gun, 2 RAC X reversible spray tips (210 and 517), flat tip (309), and 50-ft. of fluid and air hose.

Description	HP	Flow Rate	Operating Pressure	Mfr. Model	Item No.
390 PC Stand	⅝ hp	0.47 gpm	3,300 psi	17C310	**39AM04**
FinishPro GX19 Stand	½ hp	0.38 gpm	3,000 psi	17F924	**48YD46**
Finish Pro II 395 PC Cart	⅞ hp	0.43 gpm	3,300 psi	17C417	**39AM07**

Description	Tip Size	Pattern Size	Item No.
Tips			
Airless Tip LTX 413	0.013 in	8 in to 10 in	**2WCW8**
Airless Tip LTX 415	0.015 in	8 in to 10 in	**2WCW9**
Airless Tip LTX 515	0.015 in	10 in to 12 in	**2WCX1**
Airless Tip LTX 517	0.017 in	10 in to 12 in	**2WCX2**
Airless Tip LTX 521	0.021 in	10 in to 12 in	**2WCX3**
Airless Tip LTX 631	0.031 in	12 in to 14 in	**2WCX4**
Airless Tip FFLP210	0.01 in	4 in to 6 in	**53JT75**
Airless Tip FFLP310	0.01 in	6 in to 8 in	**53JT76**
Airless Tip FFLP410	0.01 in	8 in to 10 in	**53JT77**
Airless Tip FFLP212	0.012 in	4 in to 6 in	**53JT80**
Airless Tip FFLP616	0.016 in	12 in to 14 in	**53JT88**
Airless Tip Guard, ⅞" Thread	—	—	**2WCX9**
Airless Tip Guard, 1¹⁄₁₆" Thread	—	—	**2WCY1**

Description	Max. Pressure	Nozzle Size	Item No.
Accessories			
Contractor FTx Airless Spray Gun	3,600 psi	0.015 in	**2WCW3**
Contractor Airless Spray Gun	3,600 psi	0.017 in	**2WCW4**
Airless In-Line Valve	3,600 psi	—	**2WCY3**
Airless Spray Gun & Hose Kit	3,600 psi	0.017 in	**2WCW5**
Airless Hose ¼" x 50 ft.	—	—	**2WCY2**
Pump Armor Fluid, 1 qt.	—	—	**2WCW6**
TSL Seal Liquid, 1 qt.	—	—	**2WCW7**
Endurance Lower Pump	—	—	**39CT94**
Pump Replacement Kit, ProXChange	—	—	**43LD26**
Express Pump, 2004 to 2014 Models	—	—	**43LD30**
Express Pump, 2015 and Newer Models	—	—	**43LD31**
Endurance Pump, 2004 to 2014 Models	—	—	**43LD32**

GRACO

Sports Field Airless Striper

- 35cc 4-stroke Honda GX engine
- Max. tip: 0.023"
- Max. gpm/lpm: 0.5/1.9
- Max. psi/bar: 900/62

For a complete selection of striping paint, see page 1610.

HP	Holds	Mfr. Model	Item No.
1.3 hp	5 gal	248942	**3FTT4**

TITAN

ControlMax HEA Paint Sprayers

- 1500 psi

System delivers more control at high speed with 55% less overspray while delivering softer spray, improving control and providing a more-consistent finish. HEA can spray unthinned coatings with a rebuildable fluid section that maximizes sprayer life.

Description	Style	Amps AC	Hose Length	HP	Flow Rate	Mfr. Model	Item No.
1500 High Efficiency Airless	Stand	4.1 A	25 ft	½ hp	0.29 gpm	0580005	**54TU95**
1700 High Efficiency Airless	Stand	4.3 A	30 ft	⅝ hp	0.33 gpm	0580009	**54TU96**
1700PRO High Efficiency Airless	Cart	4.3 A	50 ft	⅝ hp	0.33 gpm	0580006	**54TU97**
1900PRO High Efficiency Airless	Cart	4.4 A	50 ft	⁴⁵⁄₆₄ hp	0.4 gpm	0580008	**54TU98**

	Tip Size	Pattern Size	Item No.
Tips			
	0.013 in	1 in to 12 in	**54TU99**
	0.015 in	1 in to 12 in	**54TV01**
	0.017 in	1 in to 12 in	**54TV02**
	0.019 in	1 in to 12 in	**54TV03**
Tip Guard			
	N/A	1 in to 12 in	**54TV06**
Accessories			
Conventional Spray Gun			**54TV04**
50 ft Rubber Hose			**54TV05**

Texture Sprayers

RTX Series - Allows effortless "left-to-right" spraying, eliminating the need to constantly keep the gun in a circular motion. Offers less mist and fog in the pattern to increase transfer efficiency.

PowerTex - No need for a separate air compressor. Compatible with standard, aggregated, and unaggregated coatings, and diluted joint compound. Air turbine powered.

48YD38

Description	Max. Flow	Hopper Cap.	Air Flow	Mfr. Model	Brand	Item No.
Sprayers						
RTX 1400si	1.4 gpm	10 gal	6.1 cfm @ 20 psi	17H572	Graco	**48YD38**
RTX 2000pi	2.0 gpm	10 gal	6.1 cfm @ 20 psi	17H573	Graco	**48YD39**
RTX 5000pi	5.0 gpm	15 gal	6.6 cfm @ 20 psi, 8.6 cfm @ 20 psi	17H575	Graco	**48YD40**
PowerTex	0.2 gpm	1 gal	—	0520000	Wagner	**1TNL8**
Accessories						
Airless Spray Gun Tip Kit				24S142	Graco	**48YD41**
Replacement Hose, ¾" x 25 ft., RTX				17J454	Graco	**43LD27**
Replacement Hose, 1" x 25 ft., RTX				17J420	Graco	**43LD28**

1AGE9

Paint Spray Hose

Fitting Size	L	Temp. Range	Max. Pressure	Tube Material	Cover Material	Item No.
Airless Paint Spray Hose						
¼ in NPSM(F)	25 ft.	-40° to 200°F	3300 psi	Nylon 11	Polyurethane	**1AGE9**
¼ in NPSM(F)	50 ft.	-40° to 200°F	3300 psi	Nylon 11	Polyurethane	**1AGF1**
Material Hose						
¼ in NPSM(F)	50 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR30**
⅜ in NPSM(F)	15 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR31**
⅜ in NPSM(F)	25 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR32**
⅜ in NPSM(F)	50 ft.	0° to 190°F	750 psi	Nylon	Nitrile	**4XR33**
Multipurpose Paint Spray Hose						
⅜ in NPSM(F)	15 ft.	0° to 190°F	200 psi	Nitrile	Neoprene	**1Z530**
⅜ in NPSM(F)	25 ft.	0° to 190°F	200 psi	Nitrile	Neoprene	**2Z011**

22DM29

Handheld Paint Sprayer

Flexio 590 sprayer is for use in interior or exterior projects. Maintain a consistent finish, control and speed, from walls and fences, to fine finishing on trim and cabinets.

Description	Cap.	Max. Flow	Speed	Spray Pattern	Voltage	Item No.
Flexio 590 Handheld Paint Sprayer	1.5 qt	8 gph	Variable	Adjustable Horizontal and Vertical	120V AC	**22DM29**

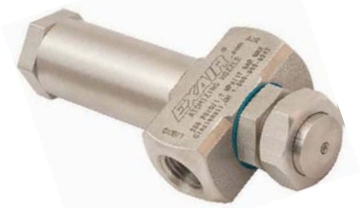
Handheld Paint Sprayer

Airless sprayer is easy-to-set up and sprays up to 1 gal. with each charge. Gives precision pressure control that delivers a consistent spray fan without pressure fluctuations. Features reverse tip, making it easy to clean tip clogs. Disposable liner helps eliminate clean-up time. Ideal for spraying stains, sealers, oil and latex paints. Includes 4 oz. bottle pump armor, liner bag, mesh fluid filter, reversible tip, 2 Li-Ion batteries, charger, and tool bag.

Cap.	Max. Flow	Speed	Spray Pattern	Voltage	Item No.
32 oz	0.2 gpm	Variable	Up to 12 in	20V AC	**53JT65**

Description	Flow Rate	Spray Pattern	Item No.
Internal Mix			
360 Hollow Circular Fan Pattern	1.6 to 14.7 gph	53 in dia	**35XT50**
360 Hollow Circular Fan Pattern (No Drip)	1.6 to 14.7 gph	53 in dia	**35XT28**
Flat Fan Pattern	1.8 to 6.9 gph	18 in W	**35XT49**
	0.8 to 3.2 gph	23 in W	**49T503**
Flat Fan Pattern (No Drip)	1.8 to 6.9 gph	18 in W	**35XT27**
	0.8 to 3.2 gph	23 in W	**35XT22**
Round Fan Pattern	1.1 to 3.3 gph	7 in dia	**49T494**
	1.3 to 3.5 gph	16 in dia	**49T498**
Round Fan Pattern (No Drip)	1.1 to 3.3 gph	7 in dia	**35XT14**
	1.3 to 3.5 gph	16 in dia	**35XT18**
External Mix			
Flat Fan Pattern	1 to 3.8 gph	21 in W	**49T517**
	1 to 3.8 gph	13 in W	**49T513**
	2.5 to 7.5 gph	24 in W	**49T518**
	2.5 to 7.5 gph	18 in W	**49T514**
Flat Fan Pattern (No Drip)	1 to 3.8 gph	21 in W	**35XT38**
	1 to 3.8 gph	13 in W	**35XT34**
	2.5 to 7.5 gph	18 in W	**35XT35**
Round Fan Pattern	1. to 3.8 gph	8 in dia	**49T508**
	2.5 to 7.5 gph	8½ in dia	**49T509**
Round Fan Pattern (No Drip)	1 to 3.8 gph	8 in dia	**35XT29**
	2.5 to 7.5 gph	24 in W	**35XT39**
	2.5 to 7.5 gph	8½ in dia	**35XT30**
Siphon Fed			
Flat Fan Pattern	0.1 to 0.4 gph	15 in W	**49T525**
	0.3 to 1.2 gph	25 in W	**49T526**
Flat Fan Pattern (No Drip)	0.1 to 0.4 gph	15 in W	**35XT46**
	0.3 to 1.2 gph	25 in W	**35XT47**
Round Fan Pattern	0.2 to 0.8 gph	6¹³⁄₁₆ in dia	**49T521**
	0.3 to 1.9 gph	8 in dia	**49T522**
Round Fan Pattern (No Drip)	0.2 to 0.8 gph	6¹³⁄₁₆ in dia	**35XT42**
	0.3 to 1.9 gph	8 in dia	**35XT43**

Flat Fan Pattern
49T513



Round Fan Pattern (No Drip)
35XT42

Atomizing Spray Nozzles

No-drip nozzles positively stop liquid flow when the compressed air is shut off, saving costly liquids.

INTERNAL MIX

Mix the liquid and air inside the air cap for the finest atomization. Can be used on liquids with a viscosity up to 300 cp. Both air and liquid side are pressure fed.

EXTERNAL MIX

Designed for the highest flow rates. Allow the air and liquid flows to be adjusted independently. Ideal for where precise liquid flow is needed. Can be used on liquids with a viscosity above 300 cp. Both air and liquid sides are pressure fed.

SIPHON FED

Require no liquid pressure and can be used with gravity fed liquids or lift liquids from a 36-in. siphon height. Can be used on liquids with a viscosity up to 200 cp.

Roof Coatings

Acrylic Roof Coatings are liquid-applied seamless coatings that are sprayed or rolled onto a roof surface. Coatings turn white as they dry and adhere strongly to the areas where they are applied. They work well on pitched or steep-sloped roofs where they reflect sunlight, reducing heat transfer into buildings. These coatings also repel water and moisture for the life of the coating. Acrylic coatings are a short-lifecycle, low-cost roof coating option.

Asphalt Roof Coatings are two-course processes applied to preserve the surface of a roof and it make it durable. Asphalt creates seamless, pliable water-resistant protection and levels irregularities on roof surfaces. The second coating is a protective to coat that repels moisture and UV rays. These coatings can be applied by spray, brush or paint rollers.

Aluminum Coatings help improve buildings' energy efficiency at a lower price than acrylic coatings. These coatings are highly reflective and can lower roof temperatures and repel ultraviolet rays away from the surface.

Silicone Roof Coatings are spray-applied onto a flat roof surface to repair cracks, blisters, and seams. These coatings increase protection from the elements and stop ponding water from seeping into roof substrates and causing leaks. Silicone lasts longer than other roof coatings, standing up to bad weather and high heat throughout its lifecycle.

Roof Accessory Paints are professional-grade roof spray paints that closely match the original color of most roofing materials. They resist fading and protect against rust. For use on fascia, flashing, gutters, soffits, and vent pipes.

Acrylic Roof Coating 40P312

Asphalt Roof Coating 53PZ33

Aluminum Roof Coating 35LR67

Silicone Roof Coating 411M23

Roof Accessory Paint 55ER25

Base Type	Reflective	Color	Coverage Area	Container Size	Dry Time	Cure Time	VOC Content	Sub Brand	Brand	Item No.
Acrylic Roof Coatings										
Acrylic	No	Gray	50 to 100 sq ft/gal	4.75 gal	4 to 12 hr	24 hr	16 g/L	Kool-Lastick	Kool Seal	**4FJK1**
Water	Yes	White	50 to 100 sq ft/gal	4.75 gal	24 hr	24 hr	50 g/L	—	Kool Seal	**36MV74**
	Yes	White	50 to 100 sq ft/gal	4.75 gal	6 hr	24 hr	Less Than 16 g/L	Blu2White	Kool Seal	**4EEZ7**
Roof Coatings										
Water	No	Gray	100 sq ft/gal	4.75 gal	4 to 24 hr	24 hr	32 g/L	Advanced	Rust-Oleum	**55ER58**
	No	White	100 sq ft/gal	0.9 gal	2 to 24 hr	2 to 24 hr	50 g/L	Dura-Brite	Henry	**40P313**
	No	White	100 sq ft/gal	0.9 gal	2 to 24 hr	2 to 24 hr	50 g/L	Enviro-White	Henry	**40P311**
	No	White	100 sq ft/gal	0.9 gal	2 to 24 hr	2 to 24 hr	50 g/L	Solar-Flex	Henry	**40P315**
	No	White	100 sq ft/gal	4.75 gal	2 to 24 hr	2 to 24 hr	50 g/L	Dura-Brite	Henry	**40P314**
	No	White	100 sq ft/gal	4.75 gal	2 to 24 hr	2 to 24 hr	50 g/L	Enviro-White	Henry	**40P312**
	No	White	100 sq ft/gal	4.75 gal	2 to 24 hr	2 to 24 hr	50 g/L	Solar-Flex	Henry	**40P316**
	No	White	100 sq ft/gal	4.75 gal	6 to 24 hr	24 hr	35 g/L	—	Rust-Oleum	**55ER50**
	Yes	White	50 to 100 sq ft/gal	4.75 gal	6 hr	24 hr	Less Than 16 g/L	—	Kool Seal	**4FJJ9**
	Yes	White	100 sq ft/gal	4.75 gal	2 hr	2 to 24 hr	—	—	Henry	**40P310**
Roof Sealants										
Water	Yes	White	12.5 sq ft/gal	1 gal	2 hr	1 to 7 day	—	—	Henry	**40P306**
	Yes	White	12.5 sq ft/gal	10 oz	2 hr	1 to 7 day	—	—	Henry	**40P305**
Asphalt Roof Coatings										
Solvent	No	Silver	15 to 25 sq ft/gal	1 gal	24 hr	1 to 3 day	359 g/L	Storm Patch	Kool Seal	**36MV75**
Roof Cements										
Oil	No	Black	12.5 sq ft/gal	3.5 gal	30 day	30 day	300 g/L	Flashmaster	Henry	**35LR65**
	No	Black	12.5 sq ft/gal	5 gal	12 to 24 hr	30 day	300 g/L	Flashmaster	Henry	**53PZ34**
Roof Leak Repair										
Oil	No	Black	12.5 sq ft/gal	0.9 gal	2 to 24 hr	30 day	300 g/L	Extreme Wet Patch	Henry	**40P303**
	No	Black	12.5 sq ft/gal	0.9 gal	—	30 day	300 g/L	Wet Patch	Henry	**40P298**
	No	Black	12.5 sq ft/gal	3.3 gal	—	30 day	300 g/L	Wet Patch	Henry	**40P299**
	No	Black	12.5 sq ft/gal	10.1 oz	—	30 day	300 g/L	Wet Patch	Henry	**40P297**
	No	Black	12.5 sq ft/gal	10.1 oz	2 to 24 hr	30 day	300 g/L	Wet Patch	Henry	**40P302**
Solvent	No	Black	12.5 sq ft/gal	5 gal	12 hr	30 day	300 g/L	—	Henry	**53PZ33**
Roof Roll Adhesive										
Solvent	No	Black	50 sq ft/gal	5 gal	24 hr	1 to 7 day	300 g/L	—	Henry	**35LR66**
Roof Sealants										
Water	No	Black	3 to 100 sq ft/gal	4.75 gal	6 to 24 hr	1 to 7 day	0 g/L	—	Henry	**40P308**
	No	Black	100 sq ft/gal	0.9 gal	6 hr	1 to 7 day	0 g/L	—	Henry	**40P307**
Aluminum Roof Coatings										
Roof Coatings										
Solvent	No	Gray	40 to 50 sq ft/gal	4.75 gal	24 hr	10 to 12 day	389 g/L	—	Rust-Oleum	**55ER55**
	No	Gray	50 sq ft/gal	4.75 gal	24 hr	10 to 12 day	397 g/L	—	Rust-Oleum	**55ER39**
Water	No	Silver	100 sq ft/gal	5 gal	2 to 24 hr	2 to 24 hr	50 g/L	Aqua-Brite	Henry	**35LR67**
Silicone Roof Coatings										
Solvent	Yes	White	100 sq ft/gal	1 gal	—	1 hr	Less Than 10 g/L	Tundra	Kool Seal	**411M22**
Roof Coatings										
Solvent	Yes	White	100 sq ft/gal	5 gal	—	1 hr	Less Than 10 g/L	Tundra	Kool Seal	**411M23**
Roof Sealants										
Solvent	Yes	White	6 sq ft/gal	1.9 gal	—	48 hr	25 g/L	Pro-Grade	Henry	**54EP12**
Roof Accessory Paints & Coatings										
Roof Touch-Up Paints										
Oil	No	Bronze	10 to 12 sq ft/can	12 oz	20 min to 1 hr	24 hr	584 g/L	—	Rust-Oleum	**55ER25**
	No	White	10 to 12 sq ft/can	12 oz	20 min to 1 hr	24 hr	549 g/L	—	Rust-Oleum	**55ER26**

40P309

Roof Repair Fabrics

Used for waterproofing and reinforcement, they are generally used as a part of a three-course roof coating application process that includes base coats and finishers (see coatings on this page). These fabrics include fiberglass cloths and polyester-blend fabrics.

Resin Type	Color	Coverage Area	Resistance Properties	Brand	Item No.
Polyester	White	4 in x 150 ft/roll	Puncture Resistant	Henry	**40P309**
Polyester	White	6 in x 300 ft/roll	—	Rust-Oleum	**55ER02**
Resin Coated Glass Fabric	Yellow	6 in x 25 ft/roll	Acid Resistant	Henry	**40P301**
—	White	4 in x 300 ft/roll	—	Rust-Oleum	**55ER08**

Roof Patching & Repair Products

Kool Seal Acrylic Patching Cement—Stops leaks on damp or dry surfaces. Blends in on existing white roofs.

Storm Patch All-Weather Rubberized Cements—Displace water from wet surfaces and create a tight seal.

Flexx Sealer Permanent Leak Repair—Bonds immediately, seals instantly to clean dry surface. Never hardens, cracks, peels or shrinks.

Kool Seal 4FJK6

Kool Seal 4FJK7

Storm Patch 4FJK3

Storm Patch 4FJK4

Description	Container Type	Size	Color	Item No.
Patching, Plugging, and Joint Compounds				
Kool Seal Acrylic Patching Cement	Tube	10.5 oz	White	**4FJK6**
Kool Seal Acrylic Patching Cement	Can	115 oz	White	**4FJK7**
Storm Patch All-Weather Rubberized Cement Patch	Tube	10 oz	Clear	**4FJK3**
Storm Patch All-Weather Rubberized Cement Patch	Tube	10.5 oz	Black	**4FJK4**
Leak Repair				
Flexx Sealer Leak Repair and Sealer Roll	Roll	2 in x 10 ft	Gray	**4FJL1**
Flexx Sealer Permanent Leak Repair Strip	Roll	2 in x 3 ft	White	**4FJK8**

Flexx Sealer Roll 4FJL1

Flexx Sealer 4FJK8

Multisurface Rubberized Coatings

Rubberized Liquid Coatings apply to surfaces and then dry to be waterproof barriers.

Rubberized Tape Adhesives produce leakproof membranes and insulation necessary to cover the entire surface of a pipe. They can be used in conjunction with liquid coatings like epoxies to enhance surface protection. Withstands tear and abrasion.

Color	Coverage Area	Container Size	Container Type	Dry Time	Cure Time	Brand	Item No.
Rubberized Liquid Coatings							
Rubber							
Black	2 sq ft	2 oz	Aerosol	24 to 48 hr	24 to 48 hr	Flex Seal	**55KE45**
	37.5 sq ft	32 oz	Can	24 to 48 hr	48 hr	Flex Seal	**55KE52**
Clear	2 sq ft	2 oz	Aerosol	24 to 48 hr	24 to 48 hr	Flex Seal	**55KE46**
	37.5 sq ft	32 oz	Can	24 to 48 hr	48 hr	Flex Seal	**55KE53**
Gray	12 sq ft	14 oz	Aerosol	2 to 3 hr	2 to 3 hr	Flex Seal	**55KE47**
	37.5 sq ft	32 oz	Can	24 to 48 hr	48 hr	Flex Seal	**55KE55**
White	12 sq ft	14 oz	Aerosol	2 to 3 hr	2 to 3 hr	Flex Seal	**55KE50**
	37.5 sq ft	32 oz	Can	24 to 48 hr	48 hr	Flex Seal	**55KE56**
Solvent							
Black	20 sq ft	16 oz	Can	20 to 30 min	30 min	Nu-Calgon	**20LP95**
Clear	310 sq ft	1 gal	Can	24 hr	24 hr	Zinsser	**36RD93**
White	20 sq ft	16 oz	Can	20 to 30 min	30 min	Nu-Calgon	**1ANJ9**

Coverage Area	Tape Shape	Color	Surface Material	Brand	Item No.
Rubberized Tape Adhesives					
10 sq ft	Continuous Roll	Black	Concrete, Metal, Wood	Flex Seal	**55KJ96**
	Continuous Roll	White	Concrete, Metal, Wood	Flex Seal	**55KJ99**
24 sq in	Strip	Black	Concrete, Metal, Wood	Flex Seal	**55KJ95**

Rubberized Liquid Coating 55KE45

Rubberized Tape Adhesive 55KJ96

Cool Rubberized Dip Coatings

These coatings contain an air-dry, specialty rubber formulation that is peelable, flexible, insulating, non-slip, and durable. Metal parts may be dipped into the coating to enhance appearance, provide a soft grip, or protect the part from chemicals or abrasion.

Color	Minimum Application Temperature	Maximum Application Temperature	Container Size	Applic. Method	Dry Time	Dry Time to Recoat	Brand	Item No.
Black	—	—	1 gal	Brush, Spray	24 hr	1 hr	—	**3KZK5**
Blue	-30 °F	200 °F	14.5 oz	Brush, Dip, Spray	4 hr	4 hr	Loctite	**6KVD1**
	-30 °F	200 °F	1 gal	Brush, Dip, Spray	4 hr	4 hr	Loctite	**6KVD2**
Green	—	—	1 gal	Brush, Spray	24 hr	1 hr	—	**3KZK7**
Red	-30 °F	200 °F	1 gal	Brush, Dip, Spray	4 hr	4 hr	Loctite	**6KVD4**
	—	—	1 gal	Brush, Spray	24 hr	1 hr	—	**3KZL4**
	-30 °F	200 °F	14.5 oz	Brush, Dip, Spray	4 hr	4 hr	Loctite	**6KVD3**

3KZK5

Loctite 6KVD2

3BU19

Garage Floor Coating Kits

Surfaces: Concrete

EpoxyShield Professional—2-component finish strengthens and protects concrete floors. Resists chemicals and standing water.

EpoxyShield—One coat brightens floor with a clean, glossy, water-based coating. Protect against gasoline, antifreeze, motor oil, salt, hot tire pickup and cracking.

Color	Coverage Area	VOC Content	Dry Time	Container Size	Mfr. Model	Brand	Item No.
EpoxyShield, Professional							
Dark Gray	150 to 200 sq ft/gal	Less Than 250 g/L	4 day	2 gal	238467	Rust-Oleum	**1TBG4**
Dunes Tan	150 to 200 sq ft/gal	Less Than 250 g/L	4 day	2 gal	238466	Rust-Oleum	**1TBG3**
Silver Gray	150 to 200 sq ft/gal	Less Than 250 g/L	24 to 96 hr	2 gal	203373	Rust-Oleum	**3BU19**
Tile Red	150 to 200 sq ft/gal	Less Than 250 g/L	4 day	2 gal	238468	Rust-Oleum	**1TBG5**
EpoxyShield							
Clear	250 to 500 sq ft/kit	Less Than 75 g/L	24 to 72 hr	1 gal	292514	Rust-Oleum	**52JU45**
Gray	250 sq ft/ pouch	Less Than 50 g/L	72 hr	120 oz	251965	Epoxyshield	**6KP68**
Tan	250 sq ft/ pouch	Less Than 50 g/L	72 hr	120 oz	251966	Epoxyshield	**6KP69**

Perma-Patch 3ZC17

GreenPatch 39F847

Asphalt Patch Paving Material

Sakrete—21HC47 is a liquid formula used to fill cracks up to ½" wide. Accepts traffic after 5 days. 39UV47 has a full cure time of 2 days.

Perma-Patch—Patches potholes, utility cuts, and cracks. Bonds permanently to asphalt, concrete, steel, and wood. Apply in any weather condition. No mixing. Dries immediately; cures faster under greater volumes of traffic. Compaction can be accomplished by hand tamping.

GreenPatch—Ready-to-use VOC-compliant formula contains recycled asphalt and permanently repairs potholes and cracks in pavement. Workable in all weather and can be installed in standing water. Accepts traffic immediately after application.

Rust-Oleum—Concrete Patch and Repair is a 2-part, industrial-strength epoxy that permanently bonds concrete, won't shrink or crack, and creates a surface stronger than concrete. For indoor/outdoor use. Fast curing; paintable in 8 hours. Easy mixing, low odor, no solvents.

Description	Coverage	Container Size	Mfr. Model	Item No.
Sakrete				
Blacktop Crack Filler	160 ft @ ¼ in x ¼ in	1 gal	120039	**21HC47**
	40 ft @ ¼ in x ¼ in	1 qt	120041	**39UV47**
Perma-Patch				
Permanent Pavement Repair	3 sq ft @ 1 in	30 lb	PP-30-CP	**13R450**
Black Asphalt Paving Compound	6 sq ft @ 1 in	60 lb	PP-60-C	**3ZC17**
GreenPatch				
Pavement Repair Patch	3 sq ft @ 21 in x 21 in x 1 in	40 lb	GP40P	**39F847**
Cold Patch	4 sq ft @ 2 ft x 2 ft x 1 in	50 lb	GP50	**39F846**
Rust-Oleum				
Concrete Patch and Repair	14 Linear ft @ ½ in x ½ in	24 oz	301012	**52JU46**

40P317

Henry
#1 CHOICE OF PROFESSIONALS

Driveway Asphalt and Coating

Asphalt Resurfacer—Fills and seals rough surfaces and cracks in asphalt driveways. Features a 7x rubberized formulation for long life and durability. Stir gel formula applies easily, dries quickly, and reduces tracking.

E-Z Stir Asphalt Filler/ Sealer—Do-it-yourself, easy-to-use formula stirs and applies easily. Reinforced for improved traction and durability.

Top-Kote Asphalt Coating—Smooths, preserves, and protects weathered asphalt driveways. Renews and gives a black appearance to surfaces.

Asphalt Pothole Patch—Use this solvent-based asphalt and aggregate compound to fill larger cracks and potholes. All-weather formula requires no mixing.

Asphalt Coating—Brush-applied sealcoat is ideal for home use. Stirs and applies easily.

Description	Container Size	Flash Point	Dry Time Recoat	Coverage	Item No.
Asphalt Resurfacer	4.75 gal	212°F	4 hr	250 to 500 sq ft	**40P317**
E-Z Stir Asphalt Filler/Sealer	4.75 gal	212°F	4 hr	250 to 500 sq ft	**40P318**
Top-Kote Asphalt Coating	4.75 gal	212°F	4 hr	300 to 400 sq ft	**40P319**
Asphalt Pothole Patch	11 lb	170°F	Immediately After Compacting	2 sq ft x 1 in	**40P320**
Asphalt Coating	55 gal	212°F	4 hr	2200 to 4400 sq ft	**35LR68**

21HC54

Concrete Mixes

SAKRETE

- 50 lb. pail

Formulated with sand, gravel, and cement for repair and building jobs where concrete is more than 2" thick.

21HC53 sets posts and poles easily without blending. Sets in 30 min.

21HC52 includes fibers that help resist cracking due to shrinkage.

21HC54 achieves 5000 psi strength. Also good for use in concrete countertops.

21HC55 is a general purpose concrete mix with a strength of 4000 psi.

Description	Meets	Mfr. Model	Item No.
Fast Setting Concrete Mix	ASTM C-387 and ASTM C-270	120019	**21HC53**
Crack Resistant Concrete Mix	ASTM C-387	120018	**21HC52**
5000 Plus High Strength Concrete Mix	ASTM C-387	120020	**21HC54**
High Strength Concrete Mix	ASTM C-387	120021	**21HC55**

39H820

39H819

CRACK•STIX

Crack Stix Permanent Concrete & Asphalt Joint & Crack Filler

Easy to use with no mixing: Cut pliable cord to length, hand-pack, and heat with a propane torch. It melts instantly and cures quickly, accepting traffic in less than 20 min. Creates a permanent watertight bond.

Container Size	Coverage	Color	Mfr. Model	Item No.
Concrete				
10 lb	125 ft @ ½ in x ½ in	Gray	2051	**39H820**
10 lb	225 ft @ ¼ in x ¼ in	Gray	2061	**30WM10**
Asphalt				
8 lb	125 ft @ ½ in x ½ in	Black	2050	**39H819**
10 lb	250 ft @ ¼ in x ¼ in	Black	2060	**30WM09**

21HC50

52VY64

SAKRETE

Concrete Cleaners and Dissolvers

Concrete and Asphalt Cleaner—Mild, acidic liquid used to clean concrete, masonry, and asphalt surfaces. Use to clean exiting surfaces prior to making repairs.

Concrete Mortar Disolver—A safe, environmentally-friendly liquid alternative to aggressive acid concrete removers. Used to remove dried on cement, concrete, mortar, or stucco from most surfaces.

Description	Container Size	Item No.
Concrete and Asphalt Cleaner	1 qt	**21HC50**
Concrete Mortar Disolver	28 oz	**52VY64**

15F518

TOMES

Tinted Concrete Mixes

TintCrete Resurfacer—Resurface or patch concrete with this colored resurfacing material. Trowel, broom, or brush onto existing concrete.

TintCrete Patch—Polymer-modified colored mortar formula withstands up to 4500 psi to resist cracks under rugged conditions.

TintCrete Concrete—Repair horizontal or formed areas with pourable colored concrete. Use to patch and repair concrete from 1" to full depth.

Color	Starts to Harden	Mfr. Model	Item No.
TintCrete Resurfacer, 50 lb			
Beige	30 min to 1 hr	GRA-DLC-21	**15F511**
Gray	30 min to 1 hr	GRA-DLC-16	**15F520**
TintCrete Patch, 50 lb			
Beige	20 to 40 min	GRA-CT40-121	**15F512**
Black	20 to 40 min	GRA-CT40-151	**15F518**
Gray	20 to 40 min	GRA-CT40-160	**15F521**
TintCrete Concrete, 65 lb			
Black	45 min to 1.5 hr	GRA-P38-1510	**15F519**
Red	45 min to 1.5 hr	GRA-P38-1310	**15F516**

6Z173

ROCKITE
FOR ANCHORING AND PATCHING

Rockite Expansion Cement

Develops a compression strength of 4500 lb./sq.-in. within 1 hr. For applications such as anchoring bolts, buildings, partitions, machines, appliances, tools, railings, hardware, and posts to concrete and other masonry floors and walls.

Starts to Harden	Container Size	Mfr. Model	Item No.
15 min	5 lb	10005	**6Z173**
	10 lb	10010	**6Z174**
	50 lb	10051	**6Z175**

6ZFY3

Polymeric Jointing Sand

SEK SUREBOND

For use with concrete pavers, cast stone, and natural stone products in patio, walkway, and driveway applications. Material fills the joints between pavers, to help prevent weed growth and sand erosion due to rain or water run off.

Color	Container Size	Container Style	Item No.	Pkg. Qty.
Tan	50 lb	Bag	**6ZFY3**	8
Gray	50 lb	Bag	**6ZFY4**	8

RUST-OLEUM BRANDS

100% Solids Flexible Joint Sealant

2-component polyurea cures in 90 min. Designed to control joints in mild to severe industrial environments. For interior and exterior use.

Container Size	Coverage	Item No.
9 oz	5.5 sq ft	**38W370**
22 oz	13.3 sq ft	**38W371**

4AUX7

39UV63

3EGC5

Concrete Crack Repair

PC Products—2-component epoxy gel works in temps, up to 115°F. Solvent-free and odor-free formula has a working time (20 min. at 75°F.); paintable after 4-hr.

Sakrete—39UV52 is a flowable material designed to fill and seal cracks in concrete up to ¼"W and ¼"D. 39UV63 is trowelable and used for filling and sealing cracks in concrete up to 1" wide.

DAP—Self-leveling for horizontal applications; for interior and exterior use.

FlexKrete—Dual Component, 600 ML total when mixed cartridge with static mixing tube.

Titebond—High-performance self-leveling polymer sealant fills contraction/expansion joints and cracks in concrete decks and floors. Low VOC.

Prospec—Clear, non-yellowing, acrylic polymer membrane ideal for curing, sealing, and hardening of concrete, terrazzo, brick, and other cementitious materials.

Item	Application	Size	Full Cure Time	Coverage	Mfr. Model	Item No.
PC Products						
Concrete Anchoring and Crack Repair	Use to Anchor Bolts/ Rebar and Patch Cracks In Concrete	8.6 oz.	4 hr	—	072561	**4AUX7**
		102 oz.	4 hr	25.7 sq ft	071021	**4AUY2**
Epoxy Adhesive	Use to Anchor Bolts/ Rebar and Patch Cracks in Concrete	2.8 oz	4 hr.	4 hr.	070505	**25F532**
		1.69 oz	4 hr.	4 hr.	070529	**25F533**
Sakrete						
Concrete Crack Repair	Concrete Repair	1 qt.	1 day	35 ft @ ¼ in x ½ in	120026	**39UV52**
Pre-Mixed Concrete Patch		1 qt.	2 days	3 sq ft @ ⅛ in	120547	**39UV63**
DAP						
Liquid Cement Crack Filler	Repairs Cracks and Surface Defects In Concrete, Self Leveling, Ready-Mixed Formula	1 qt.	1 hr	—	37584	**1LYG4**
Flexkrete						
Polyurea Sealer, Concrete	Used As A Filler For Joints And Cracks	600mL Cartridges	—	—	FK-PS100 Kit	**3EGC5**
Titebond						
Self-Leveling Concrete Floor Joint Sealant	Construction/ Expansion Joints and Cracks In Concrete Decks and Floors	10.1 oz.	1 day	31 ft @ ¼ in x ¼ in	3191	**2GXU1**
Tenon						
Sealer	Commercial/Residential, Interior/Exterior, Masonry	1 gal.	4 hr	300 sq ft	120823	**487A67**
	Commercial/Residential, Interior/Exterior	5 gal.	4 hr	1500 sq ft	120822	**487A68**
Prospec						
Sealer	Commercial/Residential, Interior/Exterior	—	4 hr	16,500 sq ft	120824	**487A69**

Item	Application	For Use With	Mfr. Model	Item No.	Pkg. Qty.
PC Products					
Static Mixing Nozzle	For Dispensing Concrete And Crack Repair	Mfr. No. 072561	072226	**4AUX8**	2

Geocel Setting the Standard

Joint and Crack Repair

1500SL joint and crack repair is a high-performance, one-part, moisture curing, self-leveling sealant for concrete, masonry, or asphalt joints. Non-gassing property makes it ideal for high temperatures and humid conditions. Starts to harden in 2 hr. and fully cures in 3 days. Remains flexible and is resistant to UV rays.

Color	Coverage	Container Size	Mfr. Model	Item No.
Gray	11.2 to 67.4 Linear ft	28 fl oz	GC99902	**488H53**

453T09

Refracting and Masonry Mortars

Refractory mortars are used for laying fire brick. Temp. range of 40° to 100°F. Masonry mortar is used for tuck pointing mortar joints. Temp. range of 40° to 90°F. Mortars are gray in color.

For Use On Surface Material	Coverage	Container Size	Starts to Harden	Brand	Mfr. Model	Item No.
Refractory Mortar						
Brick, Concrete, Stone, Wood	0.5 cu ft	10 lb	1 hr	Prospec	120913	**453T09**
	0.13 cu ft	50 lb	1 hr	Akona	104319	**453T08**
Masonry Mortar						
Masonry	21 sqft @ ⅝ in, 25 sq ft @ ½ in, 35 sq ft @ ⅜ in	50 lb	2.5 hr	JE Tomes	N-3	**64UX18**

39UV48

1LYG7

Concrete Patching

Sakrete Concrete Patch—Top 'n Bond patcher is a polymer-modified sand and cement repair mortar for resurfacing, patching, and general concrete repairs from featheredge to ½". Requires only the addition of water.

DAP Concrete Patch—Nonshrinking ready-mix dries to hard finish. For interior/exterior use.

Application	Full Cure Time	Container Size	Mfr. Model	Item No.
Sakrete Concrete Patcher				
Concrete Repair	2 days	10 lb	120031	**39UV64**
	1 day	50 lb	120032	**39UV48**
DAP Concrete Patcher				
Patch Cracks and Breaks	1 day	1 gal	31090	**1LYG7**

RUST-OLEUM BRANDS

Concrete Patching Compound

- 5499 system

2-component system: must use base and activator. Repairs cracks and damaged areas. No priming required. Accepts light foot traffic in 12 hr. Activator included. 100% solid.

Container Size	Color	Coverage	Item No.
2 gal	Gray	12.5 sq ft @ ⅛ in	**5A279**

15F502

TOMES

Fast Set 10-Minute Concrete Repair Compound

Permanently repairs cracks, spalls, concrete and deteriorated concrete. Can be applied in sub-zero temperatures.

15F502 includes 2 pints each of Concrete Mender Parts A and B, 17 lb. of aggregate, plastic trowel, rubber gloves, mixing bucket, and 3 lb. of dry latex concrete resurfacer.

15F504 includes 2 Concrete Mender cartridges, 2 flow controllers, 2 static mixing tips, 10 lb. of aggregate, plastic trowel, rubber gloves, and 3 lb. of dry latex concrete resurfacer.

15F507 includes Concrete Mender cartridges, 15 flow controllers, and 15 static mixing tips.

Container Size	Mfr. Model	Item No.
1.5 gal	JET-28	**15F502**
2 Cartridge Kit	JET-2	**15F504**
12 Cartridge Kit	JET-12	**15F507**

64UX16

TOMES

Concrete Sealers

White liquid is for use in concrete and masonry; dries clear and invisible. Starts to harden in 2 hrs. and cures in 1 to 2 days. Can be re-coated in 1 to 2 days.

Container Style	Container Size	Coverage	Item No.
Bottle	1 gal	100 to 300 sq ft	**64UX16**
Pail	5 gal	500 to 1500 sq ft	**64UX17**

30RK20

6DNX5

RUST-OLEUM BRANDS

Concrete Repair

InstaPatch Concrete Repair Kit—2-component polyurea repair compound cures in less than 15 min. Can be applied in temperatures as low as -5°F. 100% solid.

TurboKrete Epoxy Repair Kit & Nozzles—Fast-curing, nonsag epoxy is used for vertical and horizontal repairs. 100% solid.

Description	Coverage	Includes	Item No.
InstaPatch			
Concrete Repair Kit	230 ft @ ¼ in x ¼ in	½ gal Part A and ½ gal Part B	**30RK20**

Description	Item No.
TurboKrete	
Epoxy Repair Kit, 9 oz. Cartridge	**6DNX5**
Static Mixing Nozzle, 3 Nozzles	**6DNX6**

2VRN1

LOCTITE

Loctite PC9410 Magna-Crete

2-component, concrete repair and grouting system. Bonds to most common construction materials.

Application	Container Size	Mfr. Model	Item No.
Compressive Strength 13,000 PSI, Rapid Setting, Chemically Resistant, Summer and Winter Additives Also Available to Aid Cure Times	1 gal	235572	**2VRN1**
	5 gal	235573	**2VRN2**

6KP53

RUST-OLEUM BRANDS

TurboKrete Concrete Patching Kit

Repairs large cracks and deep holes. Can accept vehicular traffic in 6 to 8 hr. 3 to 4x stronger than concrete. 100% solid.

Description	Container Size	Coverage	Item No.
Small Kit	4 fl oz (Part B) Activator, 13.1 lb (Part C) Aggregate, 27.5 fl oz (Part A) Base	0.15 cu ft	**5XPP2**
Large Kit	8 fl oz (Part B) Activator, 26.25 lb (Part C) Aggregate, 55 fl oz (Part A) Base	7.5 sq ft	**6KP53**

3EGA8

FlexKrete Technologies

FlexKrete Concrete Repair and Primer

FlexKrete 102 mortar for long-term repair is 3x harder than concrete. Flex-Prime has excellent wet out properties blocking out moisture, providing deep pentration.

Application	Container Size	Color	Mfr. Model	Item No.
FlexKrete 102 Concrete Repair Compound				
Repair Concrete, Asphalt, Steel, Wood, Fiberglass, Marble, Build Ramps, Seamless Floors, Resurface Concrete, Repair Anchor Bolts, Vertical/Horizontal and Overhead Sites, Non-skid Surface, ADA, Bridge Repair, Drain Repair, Manhole Repair	1 gal	Gray	FK102G-KIT	**3XJC3**
	5 gal	Gray	FK-102G	**3EGA8**
	5 gal	Clear	FK-102C	**3EGC1**
Flex-Prime Concrete Primer, 2-Component				
Use As A Penetrating And Bonding Agent	(2) 1-gal. Jugs	Clear	FK-Primer	**3EGC7**

1LYG5

39UV65

15F530

DAP SAKRETE

Hydraulic Cements

Quick Plug—Stops running water through deep cracks, holes, and imperfections in concrete surfaces, both above and below ground level.

Hydraulic Cement—Stops the flow of water through breaks in concrete or masonry walls and floors. Rapid setting with initial set-time of 1 to 3 min. and final set in 3 to 4 min.

Concrete Foundation Repair Leak Stop, Anchoring—Quickly stop active leaks, plug holes, repair foundation walls and anchor equipment.

Starts to Harden	Full Cure Time	Container Size	Mfr. Model	Brand	Item No.
Quick Plug Hydraulic Cement					
3 min	28 days	5 lb	14086	DAP	**1LYG5**
3 min	28 days	10 lb	14090	DAP	**10L517**
Hydraulic Cement					
3 min	2 days	50 lb	120030	Sakrete	**39UV65**
Concrete Foundation Repair Leak Stop, Anchoring					
3 min	1 hr	3 lb	C118	Hydro Plug	**15F529**
3 min	1 hr	10 lb	C120	Hydro Plug	**15F530**
3 min	1 hr	50 lb	C121	Hydro Plug	**15F531**

Anchoring Cements

2-component system for repairing spalled or deteriorating concrete. Can be used for overhead repairs. Solvent-free, high-strength, high-modulus, moisture intensive repair epoxy.

Starts to Harden	Full Cure Time	Container Size	Mfr. Model	Item No.
15 min	4 hr	1 gal	071120	**5UXR4**

Hard Hat ANSI Classifications

ANSI/ISEA-Z89.1-2014
Describes the impact resistance and electrical insulation properties of the hard hat.

Impact and Electrical Insulation Classifications
Type I: Reduces the force of impact caused by a blow to the top of the head only.
Type II: Reduces the force of impact from a blow to the top or side of the head.

Class C - Conductive: Provides no protection from electrical hazards.
Class G - General: Provides low-voltage protection up to 2.2kV.
Class E - Electrical: Provides high-voltage protection up to 20kV.

Hard Hat Suspension Types

Pinlock
Feature a band with evenly spaced holes on one end and pins on the other end that fasten for a comfortable fit.

Ratchet and Swing-Ratchet
Feature a knob for tightening or loosening the band to customize the fit. Swing-ratchet suspension helmets let the wearer reverse the position of the helmet without removing the suspension frame.

One-Touch and Staz-On
One-Touch have a clip that is squeezed and slid along the band to adjust fit. Staz-On suspension helmets have a band with evenly spaced holes on one end and pins on the other end that fasten to adjust.

D0311

J5421

D0366

J5423

J5114

J6000

MSA The Safety Company · Honeywell North · Condor · 3M · Bullard · Honeywell Fibre-Metal

General Purpose Hard Hats—Type 1, Class E

- Non-vented

Protect against vertical impacts and high-voltage conductors up to 20kV. Used by construction workers, road crews, and other workers as required by OSHA. Front and full brim protect the face from sun, reduce glare, and help shed rain. Full brim protects both the face and neck. See Grainger.com® for available colors.

Material	Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)						
Polyethylene	MSA	V-Gard®	Yes	D0311	Yes	D0366
Polyethylene	Honeywell North	North Zone™	Yes	J5113	—	—
Polyethylene	Condor	SL	Yes	J5421	—	—
Ratchet (4-Point)						
Polyethylene	MSA	V-Gard®	Yes	D0312	Yes	D0367
Polyethylene	MSA	SmoothDome®	Yes	D0371	—	—
Polyethylene	MSA	V-Gard®	Yes	H0844	—	—
Polyethylene	Honeywell North	North Zone™	Yes	J5114	Yes	J6000
Polyethylene	Condor	SL	Yes	J5422	No	J5423
Polyethylene	3M	H-800	—	—	No	H3920
Ratchet (6-Point)						
Polyethylene	Bullard	Classic	—	—	No	E5091
Ratchet (8-Point)						
Thermoplastic	Honeywell Fibre-Metal	SuperEight	Yes	G5189	No	G5183
Swing Ratchet (8-Point)						
Thermoplastic	Honeywell Fibre-Metal	SuperEight	No	G5190	No	G5184

MSA The Safety Company

General Purpose NFL Hard Hats—Type 1 Class E

- Non-vented

Hats can be printed with the logo and colors of any NFL team. Front brim protects the face from sun, reduces glare, and helps shed rain. Protect against high-voltage conductors up to 20kV and vertical impacts to the top of the head. Used by construction workers, road crews, and other workers as required by OSHA.

Material	Series	▶CHOOSE: Graphics	Front Brim Accessory Slots	Item No.
One-Touch (4-Point)				
Polyethylene	V-Gard®	NFL Team Graphics	Yes	D0375

U.S. Flag w/ Eagle H0843

Camouflage H0843

Stars & Stripes H0843

White w/Large U.S. Flag H0843

Stars & Stripes w/ Eagle H0843

White w/Small U.S. Flag H0843

Stars & Stripes J5167

Stars & Stripes w/ Eagle J5167

MSA The Safety Company

Freedom Series V-Gard Hard Hats—Type 1, Class E

- Non-vented

Patriotic hard hats are printed with symbols of national pride, such as flags and eagles. Protect wearers from vertical impacts to the top of the head and high-voltage conductors up to 20kV. See Grainger.com® for available graphics.

Camouflage J5167

Material	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Ratchet (4-Point)					
Polyethylene	Freedom Series®	Yes	H0843	No	J5167

For Hard Hat ANSI classifications, see page 1635.

Black

Tan

White

OccuNomix

Western-Style Hard Hats—Type 1, Class E

Hats have a brim around the entire hat to protect from sun and glare. Cowboy-style side brims curve up to direct water and rain to run off the back of the hat. Protect workers from vertical impacts and high-voltage electrical hazards up to 20kV.

Material	Accessory Slots	▶CHOOSE: Color	Series	Item No.
Pinlock (6-Point)				
Polyethylene	No	Black, Tan	Vulcan	**E3812**
Ratchet (6-Point)				
Polyethylene	No	Black, Gray, Tan, White	Vulcan	**E3811**

J5165

4MD46

D0373

E5090

G5187

MSA The Safety Company · 3M · Bullard · Honeywell Fibre-Metal

Heat-Resistant Hard Hats—Type 1, Class G

Constructed of heat-resistant material that resists damage when exposed to high temperatures. Used in applications such as metalworking, forging, welding, and smelting. Protect against vertical impacts to the top of the head and low voltage protection up to 2.2kV. Front brims reduce glare and shade the eyes and face from overhead sun. Full brims protect the face and neck. See Grainger.com for available colors.

			Front Brim		Full Brim	
Material	Brand	Series	Accessory Slots	Item No.	Accessory Slots	Item No.
Pinlock (4-point)						
Phenolic	MSA	Skullgard	No	**J5165**	—	—
Ratchet (4-Point)						
Glass-Reinforced Nylon	MSA	Thermalgard	Yes	**D0373**	—	—
Phenolic	MSA	Skullgard	No	**F8827**	No	**4MD46**
Glass-Reinforced Nylon	3M	Elevated Temperature	Yes	**J5442**	—	—
Ratchet (6-Point)						
Polyethylene	Bullard	Classic	Yes	**E5090**	—	—
Ratchet (8-Point)						
Fiberglass	Honeywell Fibre-Metal	Roughneck P2A	No	**G5194**	—	—
Fiberglass	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5192**	—	—
Fiberglass	Honeywell Fibre-Metal	Roughneck P2HN	Yes	**G5197**	—	—
Fiberglass	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5195**	—	—
Fiberglass	Honeywell Fibre-Metal	Roughneck P2HN	No	**G5198**	—	—
Thermoplastic	Honeywell Fibre-Metal	SuperEight	No	**G5186**	—	—
Swing Ratchet (8-Point)						
Fiberglass	Honeywell Fibre-Metal	Roughneck P2A	Yes	**G5193**	—	—
Thermoplastic	Honeywell Fibre-Metal	SuperEight	Yes	**G5187**	—	—

5KAW8

5KAW9

H0853

MSA The Safety Company

Miner's-Style Hard Hats—Type 1, Class G

Hats sit closer to the head than traditional hard hats, giving them a slightly lower profile for working in close quarters. Integrated hardware allows a lamp to be attached. Protect against vertical impacts and provide low-voltage protection up to 2.2kV. See Grainger.com for available colors.

		Front Brim		Full Brim	
Material	Series	Accessory Slots	Item No.	Accessory Slots	Item No.
Pinlock (4-point)					
Phenolic	Skullgard	No	**5KAW8**	No	**5KAW9**
Staz-On					
Polycarbonate	Comfo-Cap	No	**H0853**	—	—

D0368

H3923

Vented Hard Hats—Type 1, Class C

- Polyethylene

Venting helps dissipate heat to keep workers cool. Protect wearers from vertical impacts. Vents allow a clear path for electrical arcing, so hats should not be used in locations where electrical hazards are present. Front brims protect the face from sun, reduce glare, and help shed rain. Full brims protect both the face and neck. See Grainger.com® for available colors.

Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Pinlock (4-Point)					
Erb Safety	Americana	Yes	J5463	No	J5465
Bullard	S62	Yes	E3824	—	—
Ratchet (4-Point)					
Erb Safety	Americana	Yes	J5462	No	J5464
3M	H-700	Yes	G5160	—	—
3M	H700 Uvicator®	Yes	G5162	—	—
3M	H-800	—	—	No	H3921
3M	H800 Uvicator®	—	—	No	H3923
Bullard	S62	Yes	E3825	—	—
MSA	V-Gard® 500	Yes	D0368	—	—
Ratchet (6-Point)					
MSA	V-Gard® 500	Yes	D0369	—	—

K2049

Work-at-Height Vented Climbing Helmets—Type 1, Class C

- ABS material
- Accessory slots

Venting allows air to circulate and keeps workers cool. Protect the head from vertical impacts caused by falling objects. Should not be used in locations where electrical hazards are present. Helmets enclose the back and side of the head and have a chin strap to keep the helmet in place if a fall occurs. See Grainger.com® for available colors.

Brand	Series	Item No.
Ratchet (6-Point)		
3M	SecureFit™ X5000	K2049
Petzl	Vertex	K2065
Petzl	Strato Alveo	K2068
Petzl	Strato Vent	K2069
Kask	Super Plasma	53DH68

K2064

Work-at-Height Climbing Helmets—Type 1, Class E

- ABS material
- Accessory slots
- Non-vented

Protect the head from vertical impacts caused by falling objects. Nonconductive and provide high-voltage protection up to 20kV. Helmets enclose the back and side of the head and have a chin strap to keep the helmet in place if a fall occurs. See Grainger.com® for available colors.

Brand	Series	Item No.
Ratchet (6-Point)		
Petzl	Vertex	K2064
3M	SecureFit™ X5000	K2050

Top- and Side-Protecting Hard Hats—Type 2, Class E

- Polyethylene

Padded to provide protection against vertical and angled impacts up to 60°. Provide high-voltage electrical protection up to 20kV. Worn when indicated by OSHA or where swinging objects (such as hooks or chains) are present. Front brims shade the face and eyes from sun and help reduce glare. Full brims also shade the neck. See Grainger.com® for available colors.

Brand	Series	Front Brim Accessory Slots	Front Brim Item No.	Full Brim Accessory Slots	Full Brim Item No.
Ratchet (4-Point)					
Honeywell North	North	Yes	G5765	—	—
Erb Safety	Omega II®	Yes	J5466	—	—
MSA	Super-V	Yes	K2045	—	—
Bullard	Vector	Yes	E5647	—	—
Erb Safety	Americana	—	—	No	J5467

J5466

G5759

G7578

G7579

J6837

Baseball-Style Bump Caps

- Hook-and-loop adjustment
- Inner ABS shell

Combine a traditional baseball cap over a bump cap insert. Worn by contractors, exterminators, and other workers who might bump into stationary objects such as beams or piping. Not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

Bump Cap Style	Head Protection Venting	Includes LED Lights	▶CHOOSE: Color	Brand	Item No.
Baseball Cap	Yes	No	Tan, Black	Condor	**G5759**
Baseball Cap	No	No	Dark Blue, Black, Green	Occunomix	**E9470**
Baseball Cap	Yes	No	Beige, Black, Green, Gray, Dark Blue, Orange, Red, White, Yellow	Surflex	**G7578**
Winter Baseball Cap	Yes	No	Beige, Black, Dark Blue, Yellow	Surflex	**G7579**
LED Baseball Cap	Yes	Yes	Black, Dark Blue	Surflex	**G7581**
Micro/Short Baseball Cap, Front Brim	Yes	No	Hi-Visibility Green, Dark Blue, Black	Skullerz By Ergodyne	**H9899**
Micro/Short Baseball Cap, Front Brim	Yes	Yes	Hi-Visibility Green, Black, Dark Blue	Skullerz By Ergodyne	**J6837**

G5758

D0374

E3813

J5343

Traditional-Style Bump Caps

- Available in blue, green, orange, red, white, and yellow; high-visibility and other colors, see Grainger.com
- Polyethylene
- Pinlock suspension

Head Protection Venting	Brand	Item No.
Yes	Condor	**G5758**
No, Yes	MSA	**D0374**
Yes	Honeywell North	**E3813**
Yes	Erb Safety	**J5343**

Protect workers from minor injuries caused by bumping into a stationary object. Worn by workers in confined spaces, crawl spaces, or near overhead piping. Resemble a traditional hard hat and are made of plastic so they can be used in food manufacturing. Not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

23Z356

Bump Cap Inserts

Hard plastic inserts are worn under any hat or baseball cap to protect workers from cuts, minor bumps, and other injuries caused by walking or moving into a stationary object. Not ANSI rated and are not suitable for applications that require an ANSI-rated hard hat.

Material	Head Protection Venting	▶CHOOSE: Color	Brand	Item No.
ABS	Yes	Black	Condor	**23Z356**
Polyethylene	No	White	Honeywell North	**2KDZ5**
Polyethylene	Yes	Black	Erb Safety	**41N875**
Polypropylene	Yes	Gray	Skullerz By Ergodyne	**462P29**

52LD17

52LD15

23V891

Hard Hat and Helmet Suspensions

- Suspension brand and helmet brand must be the same

Suspensions are the part of the hard hat or helmet that rests on the wearer's head. They provide a gap between the headgear and head, which helps absorb shock and redirect impact force away from the head and spine. Suspensions should be replaced yearly as part of normal maintenance and inspection practices, or earlier if the suspension shows signs of wear.

For Use With	Fits Hat Size	Item No.
Pinlock (4-Point)		
Condor		
Front Brim 52LC84, 52LC85, 52LC86, 52LC87, 52LC88, 52LC89, 52LC90, 52LC91	6½ to 8	**52LD17**
MSA		
V-Gard(R)	6½ to 8	**4LN50**
Honeywell North		
North Zone Hard Hats	One Size Fits Most	**49ZZ17**
Pinlock (8-Point)		
Honeywell Fibre-Metal		
P2A, P2HN Hard Hats	One Size Fits Most	**23V891**
Ratchet (4-Point)		
Condor		
Front Brim 52LC92, 52LC93, 52LC94, 52LC95, 52LC96, 52LC97, 52LC98, 52LC99, 52LD01, 52LD02, 52LD03, 52LD04, 52LD05	6½ to 8	**52LD15**
Full Brim 52LD06, 52LD07, 52LD08, 52LD09, 52LD10, 52LD11, 52LD12, 52LD13, 52LD14	6½ to 8	**52LD16**
MSA		
SmoothDome(R), V-Gard(R), V-Gard(R) 500, V-Gard(R) GREEN	One Size Fits Most	**30FX30**
Vanguard(TM)	One Size Fits Most	**30FX36**
V-Gard(R)	6½ to 8	**1AVR7**
Honeywell North		
North Zone Hard Hats	One Size Fits Most	**49ZZ18**
Ratchet (6-Point)		
MSA		
SmoothDome(R), V-Gard(R) 500	One Size Fits Most	**30FX31**

Faceshields

- Meet ANSI Z87.1 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Clear polycarbonate visors allow high clarity and are ideal for heavy-duty impact and heat-resistance applications.

Faceshield Assembly with Chin Guard 2AUB7

Description	Visor Dim. W	H	Thickness	Item No.
Faceshield Assemblies				
Ratchet Headgear with Visor	15 ½ in	8 in	0.06 in	4EZC4
Ratchet Headgear with Visor	15 ½ in	9 in	0.07 in	4EZC2
Pin Lock Headgear with Flatfold Visor	15 ½ in	8 in	0.04 in	4EZC6
Ratchet Headgear with Visor and Chin Guard	15 ½ in	7 in	0.04 in	2AUB7
Visors				
Replacement Visor for 4EZC2	15 ½ in	9 in	0.07 in	4EZC3
Visors for 4EZC2, 4EZC4, 4EZC6, 4EZC8, and 4EZC9				
Faceshield Visor, Universal	15 ½ in	8 in	0.04 in	4EZD3
Faceshield Visor, Universal	16 in	8 in	0.04 in	4EZD1
Faceshield Visor, Universal	16 in	8 in	0.06 in	4EZD2
Hard Hat/Cap Faceshield Frames				
Foldback Faceshield Frame with Full Brim Attachment for Hard Hats				4EZC8

Turboshield Faceshield Assemblies

- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Meet CSA Z94.3

Toric polycarbonate lens provides excellent optics and increased field of view in chemical splash and debris impact applications.

21UN79 and 21UN80 (Sold Separately)

Visor Color	Mfr. Model	Item No.
Ratchet Headgear Only		
Black	S9500	21UN79
Polycarbonate Visors - 15 ⅞ inW x 9"H, 0.09" Thickness		
Clear	S9550	21UN80
Clear with Antifog Coating	S9555	21UN81
Shade 3	S9560	21UN84
Shade 5	S9565	21UN85
Hard Hat Adapter		
Black	S9510	21UN86

Bionic Faceshield Assemblies

- Meets ANSI Z87.1-2010 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Meets CSA Z94.3

Clear polycarbonate window provides high clarity and is ideal for heavy-duty impact and heat-resistance applications.

4RB55

Description	Visor Dim. W	H	Thickness	Mfr. Model	Item No.
Ratchet Headgear with Visor	14 ¼ in	9 ½ in	0.04 in	S8500	4RB55
Replacement Visor				S8550	4RB56

3M Faceshield Headgear

Headgear Only 4YZ58

Assembly 2ELZ3

- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Polycarbonate visors allow high clarity and are ideal for heavy-duty impact and heat-resistance applications. Propionate and PETG visors are suitable for splash, spray, and light impact applications. High-heat series visors are able to retain shape for longer periods of time at a higher temperature.

Description	Visor Material	Visor Color	Visor Dim. W	H	Thickness	Mfr. Model	Item No.
Ratchet Headgear (Visor Sold Separately)							
Ratchet	Plastic	Blue	6 in	6 in	—	82501-00000	4YZ58
Ratchet Headgear with Clear Chin Guard	Polycarbonate	Clear	10 ½ in	6 ½ in	—	82521-10000	2ELW6
Faceshield Assembly							
Ratchet Headgear with 4RC44 Visor	Polycarbonate	Clear	14 ½ in	9 in	0.08 in	82783	2ELZ3
Visors for 3M™ Headgear							
Propionate	Propionate	Clear	14 ½ in	9 in	0.08 in	82700-00000	2ELY8
Polycarbonate	Polycarbonate	Clear	14 ½ in	9 in	0.08 in	82701	4RC44
Faceshield Components							
Polycarbonate Visor For 2ELW6	Polycarbonate	Clear	14 ½ in	7 ¼ in	0.04 in	82543-00000	2ELZ2

V-Gard® Standard Frame with Debris Control 12V755

34G163

V-Gard® Frames and Visors

MSA The Safety Company

- Meet ANSI Z87.1-2010 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Frames—Sloped design has gutters to guide liquids, chips, and other materials off the frame and away from the line of sight.

Visors—Polycarbonate visors are resistant to impact and splash hazards. Antifog and antiscratch coating.

Description	Mfr. Model	Item No.
V-Gard® Frames For MSA® Slotted Caps		
Standard Frame	10121266	12V756
Standard Frame, Includes Debris Control	10115730	12V755

Visor Color	Visor Dim. W	H	Thickness	Mfr. Model	Item No.
Visors					
Clear	17 in	8 in	0.06"	10115840	34G162
Clear	17 in	9 ½ in	0.04 in	10115863	22EY58
Clear	17 in	10 ⅜ in	0.098"	10115853	34G163
Green	17 in	10 ⅜ in	0.098"	10115854	34G164

Faceshield Headgear

Honeywell Fibre-Metal, Honeywell North

2KFY7

15W957

- Meet ANSI Z87.1-2015 standard and certified to CSA Z94.3 when headgear or bracket is used in conjunction with proper visor to create complete faceshield

Headgear—Made of Noryl® for durability and heat resistance.

Visors—Propionate visors provide distortion-free optics along with chemical and impact resistance. Compatible with Fibre-Metal hard hats with Quick-Lok™ blocks.

Description	Mfr. Model	Item No.
Headgear Only- Honeywell North and Fibre-Metal		
Ratchet Suspension with 3" Crown	F300	15W970
Ratchet Suspension with 4" Crown	F400	2KFY7
Ratchet Suspension with 7" Crown	F500-H5	3NNJ1

Visor Color	Visor Dim. W	H	Thickness	Mfr. Model	Item No.
Visors					
Clear	11 ¼ in	8 in	0.06 in	4118CL	15W957
Clear	16 ½ in	8 in	0.06 in	4178CL	2KFY8
Clear	16 ½ in	8 in	0.06 in	6750CL	15W967
Green	16 ½ in	8 in	0.06 in	4178IRUV5	2KFZ1
Clear	19 in	9 ¾ in	0.06 in	4199CL	2KFZ3

23X909

4PE38

Faceshield Assemblies

Sellstrom. Product that works.

- Meet ANSI Z87.1-2015 standard when headgear or bracket is used in conjunction with proper visor to create complete faceshield
- Assemblies meet CSA Z94.3-07 CUL certified

Polycarbonate visor provides high clarity and is great for heavy-duty impact and heat-resistance applications. Crown/chin guard on 23X909 offers extra side and bottom protection from splashes, dust, and contaminants.

DP4™ Faceshield Assembly 4PE38 combines full-face coverage with shade 5, 6, or 8 flip visor options, eliminating the need to wear 2 protective devices. Provides UV/IR protection during grinding, cutting, and brazing operations.

Description	Visor Material	Visor Color	Visor Dim. W	H	Thickness	Mfr. Model	Item No.
Faceshield Assemblies							
Ratchet Headgear with Visor	Polycarbonate	Clear	15 ½ in	8 in	0.04 in	S30110	5DAD1
Ratchet Headgear with Visor and Crown/Chin Guard	Acetate	Clear	19 in	6 in	0.04 in	S38110	23X909
DP4™ Ratchet Headgear with Antifog Visor	Polycarbonate	Clear	12 ⅛ in	9 in	0.06 in	S32010	4PE36
DP4™ Ratchet Headgear with Shade 5 Flip Visor	Polycarbonate	Clear	12 ⅛ in	9 in	0.06 in	S32151	4PE38
DP4™ Ratchet Headgear with Shade 6 Flip Visor	Polycarbonate	Clear	12 ⅛ in	9 in	0.06 in	S32161	2KLE6
DP4™ Ratchet Headgear with Shade 8 Flip Visor	Polycarbonate	Clear	12 ⅛ in	9 in	0.06 in	S32181	2KLE5

3BB62

3BB67

Condor

Winter Hard Hat Liners

- Universal size

Over-the-Cap Liners—Feature hook-and-loop fasteners for attachment to cap suspension.

Ear Bands and Balaclava—Wear over most hard hats. Ear bands fit snugly around the ears and top of the head.

Material	Color	Item No.
Cotton	Blue	3BB62
Quilted Nylon with Fleece Liner	Blue	3BB63
Acrylic/Spandex	Blue	3BB60
Acrylic/Spandex	Orange	3BB61
Acrylic	Orange	3BB67

45NJ47 Coil Hard Hat Lanyard (Hard Hat Sold Separately)

ergodyne

Squids Hard Hat Lanyards

Secure hard hat to worker to keep it from falling out of reach. Dielectric/nonconductive. 2-lb. max load limit.

Description	Color	Item No.
Elastic Lanyard with Buckle	Lime	16M261
Elastic Lanyard with Clamp	Lime	16M262
Coil Lanyard with Buckle	Black	45NJ44
Coil Lanyard with Buckle	HV Lime	45NJ45
Coil Lanyard with Clamp	Black	45NJ46
Coil Lanyard with Clamp	HV Lime	45NJ47

Condor

Hard Hat Evaporative Cooling Pads

Deliver cooling relief from on-the-job heat. 100% cotton material contains water-activated absorbent beads. Soak the reusable liner in cold water for 10 to 20 min. before attaching to hard hat suspension. 33TZ12 includes an attached neck shade to shade and cool neck.

Description	Item No.
Cooling Pad	33TZ11
Cooling Pad with Neck Shade	33TZ12

33TZ11

33TZ12

ACCUFORM.

Reflective Hard Hat Labels

Self-adhesive retro-reflective microprism labels promote visibility. Measure 1"W x 4"L. Pkg. of 16.

▶CHOOSE: Color	Item No.
Blue, Lime Yellow, Red, Red/Orange, White	D5953

(Hard Hat Sold Separately)

HEADLINE IT! SUPPLIER DIVERSITY

Disposable Safety Liner

High-tech wick wear absorbs and evaporates sweat continuously, helping keep eyes clear. Plus it cools head in the summer and warms it in the winter. Hygienic liner traps oils, salts, and odors. One size fits all headwear items.

Color	Item No.	Pkg. Qty.
Blue	4FPK2	10

(Cap Sold Separately)

(Hard Hats Sold Separately)

Hard Hat Storage Racks

Keep one or several hard hats close at hand and off working surfaces with these racks. Fit any hard hat shape.

6GLA7

6GLA8

6GLA9

Description	Holds	Includes	Material	Overall Height	Overall Width	Overall Depth	Item No.
Seat Back	(1) Hard Hat	—	Epoxy Coated Steel	7 ¾ in	5 ¾ in	2 ½ in	6GLA7
Seat Back	(1) Hard Hat	—	Nickel Plated Steel	3 ¼ in	12 ¼ in	11 ¾ in	5LTR3
Universal Mount	(1) Hard Hat	Double-Sided Foam Tape	Powder Coated Steel	3 ¾ in	2 ¾ in	3 in	6GLA8
Wall Mount	(1) Hard Hat	—	Nickel Plated Steel	12 ¼ in	11 ¾ in	3 in	5LTR4
Wall Mount	(4) Hard Hats	Double-Sided Foam Tape	Epoxy Coated Steel	3 in	22 ¾ in	14 in	6GLA9
Window Mount Kit for Use with 5LTR4	—	(3) 3 in dia Suction Cups, Hardware	Metal, Plastic	—	—	—	5LTR5

16V832

16V834

16V845

2EMK6

Chill-Its Headwear and Sweat/Wristbands

Evaporative Cooling—PVA material activates when run under water for 1 min. Provides cooling comfort for hours. Reusable; just rewet.

Ranger Hats have a wide brim and constructed of 150 denier oxford polyester with vented mesh panels and PVA lining. Include Level 2 ANSI-compliant reflective tape with contrasting color.

Absorptive Cooling—Absorbent moisture-wicking terry fabric draws sweat away from skin.

Description	Pattern	Color	Item No.
Evaporative Cooling			
Bandannas with Cooling Towel and Tie Closure	Stars and Stripes	Red/White/Blue	16V829
	Western	Red	16V830
	Western	Navy	16V831
	Solid	Lime	16V832
	Solid	Blue	16V833
Bandannas with Cooling Towel and Hook-and-Loop Closure	Stars and Stripes	Red/White/Blue	16V839
	Western	Red	16V840
	Western	Navy	16V841
	Solid	Lime	16V842
	Solid	Blue	16V843
Triangle Hats with Cooling Towel	Stars and Stripes	Red/White/Blue	16V834
	Western	Red	16V835
	Western	Navy	16V836
	Solid	Lime	16V837
	Solid	Blue	16V838
Ranger Hat, S/M	Solid	Green	16V845
Ranger Hat, L/XL	Solid	Green	16V846
Cooling Towel, 13 in L x 29½ in W	Solid	Blue	2EMK6
	Solid	Gray	35YY79
	Solid	Green	35YY80
	Solid	Orange	35YY81
	Solid	Pink	35YY82
Cooling Towel, Universal	Solid	Blue	54DF05
Absorptive Cooling			
Dew Rags	Stars and Stripes	Red/White/Blue	2EMJ7
	Camouflage	Green	2EMJ8
	Western	Red	2EMJ9
	Western	Blue	2EMK1
	Flames	Black/Orange	2EMK3
	Solid	Lime	2EMJ6
	Solid	Blue	2EMK2
Headbands	Stars and Stripes	Red/White/Blue	2EMH5
	Camouflage	Green	2EMH6
	Western	Red	2EMH7
	Western	Navy	2EMH8
	Solid	Blue	2EMH9
	Flames	Black/Orange	2EMJ1
Sweatbands	Solid	White	2EMJ3
	Solid	Black	2EMJ5
Wristbands, Pkg. of 2	Solid	Black	2EMJ4

33TZ02

51VR19

33TZ03

53CE31

33TZ14

53CE32

Cooling Headwear

Keep cool on the job with reusable towels, bandannas, and sweatbands. Just soak in cold water up to 20 min. for instant cooling relief. Activate towels in just a couple minutes—wear on your neck or use for wiping away dirt and sweat. Wear cooling bandannas alone or with protective hard hats. Cellulose sweatband absorbs sweat and helps keep it away from eyes and hands. Brightly colored neck protector can be worn with front or full-brim hard hats to provide shade and visibility.

Description	Color	Item No.
MiraCool Neck Towel	Blue	33TZ02
MiraCool Cooling Towel	Blue	51VR19
MiraCool Neck Bandannas	Red/White/Blue	53CE31
	Navy	33TZ03
	Blue	33TZ04
	Blue	33TZ05
Absorbent Cellulose Sweatband	Blue	33TZ14
Mesh Hard Hat Shade/ Neck Protector	Yellow	53CE32

Hi-Vis Lime

Hi-Vis Orange

GloWear High-Visibility Headwear

- ANSI 107 Class compliant headwear

Constructed of 150 denier oxford polyester with vented mesh panels.

▶CHOOSE: Color	Item No.
Green, Orange	J0289

3BB64

1HC48

Winter Headwear

- Universal size

Caps are worn directly over the head. Liners have an extended nape that covers wearer's neck for added warmth.

Description	Material	Color	Item No.
Beanie Cap	Acrylic	Blue	3BB66
Nape Liner with Chin Strap	Cotton	Blue	3BB64
Nape Liner with Detachable Face Cover	Cotton	Blue	3BB65
Beanie Cap with Detachable Neck Wrap	Cap Cotton, Neck Wrap Acrylic	Blue	1HC48

48JT80

48JT81

26KF07

Heated Neck and Headwear

- Long-lasting heat for head and ears
- Designed specifically for use with HotHands warmers
- Includes a free pair of warmers

HotHands heated neck and headwear help keep the head and neck warm and comfortable when the temperature drops. Designed with special pockets to fit HotHands warmers, this is the ultimate way to stay comfortable when the weather gets cold.

Item	Color	Item No.	Pkg. Qty.
Neck Gaiter	Black	48JT80	1
Balaclava	Black	48JT81	1
Headband	Black	48JT84	1
Hand Warmer	—	26KF07	1
Hand Warmer	—	26KF08	3
Foot Warmer	—	26KF13	5
Hand Warmer	—	26KF14	10

D2583

F8993

Cold Weather Headwear

- One size fits all
- Carhartt labels are sewn on

Watch hat is 100% acrylic, stretchable rib-knit fabric for comfort. Mask features an extra-long neck. 100% acrylic knit with 3M Thinsulate Flex 40g insulation for added warmth. 2-in-1 face mask is 100% polyester fleece hat with a pull-down face mask (90% polyester/10% spandex). Wicks sweat and fights odor. Tuck mask up inside hat when not in use.

Description	▶CHOOSE: Color	Item No.
Watch Hat	Black, Brown, Lime, Navy, Orange	D2583
Mask	Black, Charcoal	F8993

46W009

H4626

46W005

Cold Weather Headwear

Universal size. Neck gaiter covers nose, mouth, ears, and neck. Face masks have a long neck for draft protection. Watch hat has a moisture-wicking polypropylene lining for comfort.

Description	Material	▶CHOOSE: Color	Item No.
Neck Gaiter	Acrylic	Black	46W009
Face Mask	Acrylic	Lime, Navy, Sage, Orange	H4626
Watch Hat	Acrylic/Wool	Black	46W005

Cold Weather Headwear

Moisture-wicking, nonallergenic, stretchable ProMAX IV polypropylene/spandex fabric blocks the cold and wind. Wear alone or as a liner. Universal size.

Description	▶CHOOSE: Color	Item No.
HEADGATOR 6 in 1 Headgear	Black, Brown, Blue	D4583
HOTHEAD Balaclava	Black, Brown	D4584
Z-BEANIE Beanie Cap	Black, Brown	D4585

D4584

46W132

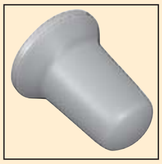
H4625

Cold Weather Headwear

Watch cap is stretchable. Aviator hat has a snap-up visor, pile-trimmed ear flaps with hearing holes under the flaps, and an adjustable chin strap.

Description/ Material	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Watch Cap			
Acrylic with 3M Thinsulate Lining	Universal	High Visibility Green	46W132
Aviator Hat			
100% Cotton Duck with Cotton Lining Quilted to 3M Thinsulate	L, XL	Black, Brown	H4625

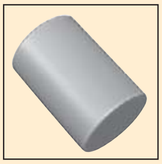
Ear Plug Shape

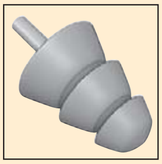

Bell
Page 1643

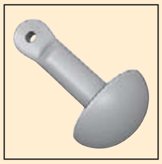
Bullet
Page 1643

Cone
Page 1644

Contoured-T
Page 1644


Cylinder
Page 1644


Flanged
Page 1645


Pod
Page 1645

Noise Reduction Rating (NRR)

Noise Reduction Rating (NRR) is the maximum number of decibels (dB) that a properly fitted hearing protector will reduce noise levels. When choosing the right hearing protection for your application, OSHA suggests subtracting 7 from the NRR value, to help account for improper fit.

Level (db)	Example of Noise Levels
140	Rifle Fired 1 Meter Away
120	Basketball Game Crowd Noise
100	Chainsaw
90	Drilling Concrete, Leaf Blower
80	Vacuum Cleaner
50	Floor Fan

Insertion Method

Roll-Down—Roll-down earplugs must be rolled and compressed by hand before being inserted into the ear canal. Once inserted, the earplug expands to create a seal.

Push-In—As implied by the name, push-in earplugs are inserted into the ear canal with a gentle push. They do not need to be rolled and compressed before insertion.

3NHA5

3NHA6

1VJY1

3NHF2

5FV14

5FV17

22ED83

22ED82

6T546

1AV18

Bell-Shaped Ear Plugs

▪ Disposable

A flared end provides extra coverage outside the ear canal, and also provides a gripping point to aid insertion and removal of the plug. No-Touch plugs have an integral stem to help keep foam tips clean.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Push-In								
29 dB	M	Purple	No-Touch	3M	**3NHA5**	100	**3NHA6**	100
26 dB	M	Orange	Quiet	Honeywell Howard Leight	**5FV22**	100	**5FV24**	100
Roll-Down								
33 dB	M	Yellow	E-A-Rsoft FX	3M	**1VJY1**	200	**1VJY2**	200
33 dB	M	Yellow	E-A-Rsoft FX	3M	—	—	**3NHF2**	100
33 dB	Universal	Orange	MAX	Honeywell Howard Leight	**5FV14**	200	**5FV17**	100
32 dB	M	Orange	Condor	Condor	**22ED83**	200	**22ED82**	100
28 dB	S	Yellow	E-A-R E-Z-Fit	3M	**6T546**	200	**1AV18**	200

3WE34

3WE35

2FLL3

2FLL6

6T545

3AC62

400G20

400G21

Bullet-Shaped Ear Plugs

▪ Disposable

Plugs have straight sides that gradually taper toward the rounded tip for a comfortable fit in the ear canal. Also called tapered ear plugs.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down								
33 dB	M	Orange/ Yellow	E-A-Rsoft SuperFit	3M	**3WE34**	200	**3WE35**	200
33 dB	M	Red/Yellow	E-A-Rsoft Yellow Neon Blasts	3M	**3GY48**	200	**3GY49**	200
33 dB	M	Yellow	E-A-Rsoft Yellow Neon Blasts	3M	—	—	**3NHF3**	100
33 dB	M	Yellow	E-A-Rsoft Yellow Neons	3M	**3NZF4**	200	**3NZF5**	200
33 dB	M	Green	Pura-Fit(R)	Moldex	**2FLL3**	200	**2FLL6**	100
33 dB	M	Multicolor	SparkPlugs(R)	Moldex	**2FLK8**	200	**2FLL2**	100
32 dB	M	Yellow	E-A-R TaperFit	3M	**6T545**	200	**3AC62**	200
32 dB	M	Orange	Condor	Condor	**22ED80**	200	**22ED81**	100
32 dB	M	Orange	X-TREME	Honeywell Howard Leight	**400G20**	200	**400G21**	100

Find more information on Hearing Protection on page 1643.

1MCD9 1MCD8

2NFC4

1VJY3

1VJY4

3M

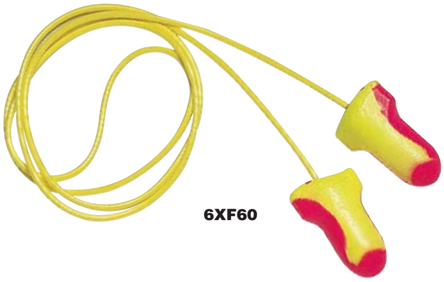
Cone-Shaped Ear Plugs

- Disposable

Designed with ridges that create rings of air pockets to help block out noise. Shaft gradually tapers toward the tip for a comfortable fit in the ear canal. Integral stems help keep foam tips clean, and simplify insertion and removal.

NRR	Size	Ear Plug Color	Series	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Push-In							
32 dB	M	Silver	E-A-R Skull Screws	**1MCD9**	120	**1MCD8**	120
31 dB	M	Yellow	E-A-R Push-Ins	—	—	**2NFC4**	200
30 dB	M	Yellow	E-A-R Push-Ins	**1VJY3**	200	**1VJY4**	200

6XF59


6XF60

5FV09

5FV12

Honeywell HOWARD LEIGHT

Contoured T-Shaped Ear Plugs

- Disposable

Plugs are slightly flattened at the end to provide a gripping point for insertion and removal.

NRR	Size	Ear Plug Color	Series	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down							
32 dB	Universal	Magenta/Yellow	Laser Lite	**6XF59**	200	**6XF60**	100
30 dB	Universal	Green	Max Lite	**5FV09**	200	**5FV12**	100

5XN20

2NFC5

3WE33

48TC50

3M

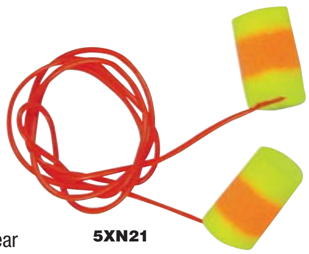
AbilityOne PROGRAM

SKILCRAFT

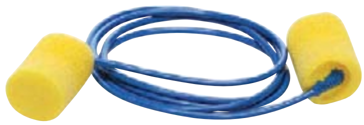
Cylinder-Shaped Ear Plugs

- Disposable

Plugs have flat ends and the same diameter for the full length of the ear plug. Also called barrel ear plugs.


5XN21

3NHF1


3NHP4

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Roll-Down										
33 dB	L	Yellow	E-A-R Classic	3M	Cardboard Pillow Pack	**3NHJ5**	200	Plastic Bag	**3NHJ6**	200
33 dB	L	Orange/Yellow	E-A-R Classic	3M	Cardboard Pillow Pack	**5XN20**	200	Plastic Bag	**5XN21**	200
29 dB	M	Yellow	E-A-R Classic	3M	Plastic Bag	**2NFC5**	500	Plastic Bag	**5T277**	200
29 dB	M	Yellow	E-A-R Classic	3M	Plastic Bag	**3WE33**	1,000	Plastic Bag	**3NHF1**	100
29 dB	M	Yellow	E-A-R Classic	3M	Cardboard Pillow Pack	**4T147**	200	Plastic Bag	**3NHP4**	500
29 dB	M	Yellow	E-A-R Classic	3M	Loose	**3NHH5**	200	—	—	—
29 dB	M	Yellow	E-A-R Classic	3M	Plastic Bag	**3WML1**	200	—	—	—
29 dB	M	Green/Orange	SoundGuard	Ability One	Cardboard Pillow Pack	**29PH94**	200	—	—	—
29 dB	M	Blue/Orange	SoundGuard	Skilcraft	Loose	**48TC50**	100	—	—	—

Find more information on Hearing Protection on page 1643.

Flanged-Shaped Ear Plugs

- Reusable

Multiple, tapered fins that flex to provide a comfortable, yet snug fit in the ear canal. Fins also create pockets of air to help block out noise.

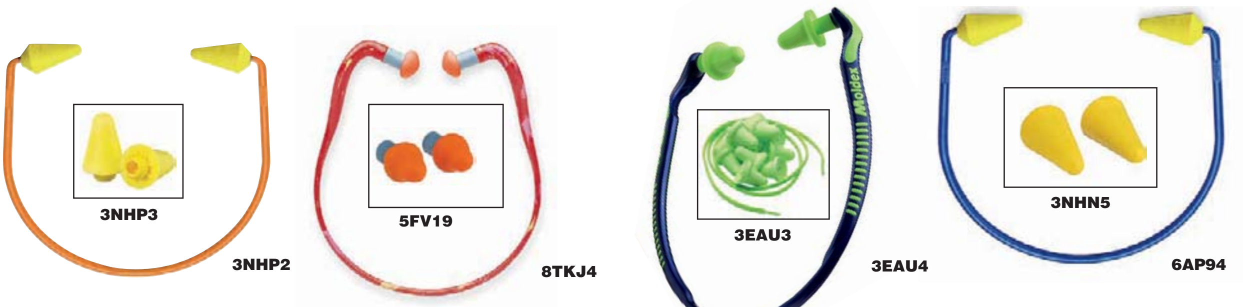
NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Push-In										
28 dB	M	Yellow	E-A-R Push-Ins	3M	—	—	—	Plastic Bag	**30FX20**	200
27 dB	M	Yellow	E-A-R UltraFit	3M	Plastic Bag	**1MCE1**	100	Plastic Bag	**1MCE2**	100
27 dB	Universal	Blue	AirSoft	Honeywell Howard Leight	Plastic Case	**3NHE2**	100	Plastic Case	**5FT95**	50
27 dB	Universal	Blue	AirSoft	Honeywell Howard Leight	—	—	—	Plastic Case	**5FT99**	100
27 dB	M	Yellow	Fusion	Honeywell Howard Leight	—	—	—	Plastic Case	**3WU29**	100
27 dB	M	Purple	Rockets	Moldex	Plastic Case	**3NHL8**	50	Plastic Bag	**2EUL9**	50
27 dB	M	Purple	Rockets	Moldex	—	—	—	Plastic Case	**2EUN1**	50
26 dB	M	Clear	Tri-Flange	3M	—	—	—	Plastic Bag	**3NHA7**	100
26 dB	M	Clear	Tri-Flange	3M	—	—	—	Plastic Bag	**5PA90**	100
25 dB	M	Yellow	E-A-R UltraFit	3M	Plastic Bag	**3NHE5**	100	Plastic Bag	**30FX21**	200
25 dB	Universal	Blue	SmartFit	Honeywell Howard Leight	—	—	—	Plastic Bag	**3GYE1**	100
25 dB	Universal	Orange	SmartFit	Honeywell Howard Leight	—	—	—	Cardboard Pillow Pack	**3WU28**	100
25 dB	Universal	Orange	SmartFit	Honeywell Howard Leight	—	—	—	Cardboard Pillow Pack	**24C176**	100

Pod-Shaped Ear Plugs

- Disposable

Large, ball-shaped end fills the ear canal, and a paddle-shaped handle provides a grip for pushing the pod into place so there's no need to touch or roll the ear plug. A good choice for use in dirty environments.

NRR	Size	Ear Plug Color	Series	Brand	Uncorded Pack Type	Uncorded Item No.	Uncorded Pairs Per Pkg.	Corded Pack Type	Corded Item No.	Corded Pairs Per Pkg.
Push-In										
30 dB	M	Green	Glide	Moldex	Plastic Bag	**21EP24**	100	Plastic Bag	**21EP25**	100
29 dB	M	Gray	E-A-R Pistonz	3M	—	—	—	Plastic Bag	**6ANU4**	100
28 dB	M	Yellow	E-A-R Push-Ins	3M	Plastic Bag	**3WE31**	100	Plastic Bag	**2NFC6**	500
28 dB	M	Yellow	E-A-R Push-Ins	3M	Plastic Bag	**30F058**	200	Plastic Bag	**3WE32**	100
28 dB	M	Yellow	E-A-R Push-Ins	3M	—	—	—	Plastic Bag	**30FX20**	200
25 dB	M	Yellow	E-A-R EXPRESS	3M	Cardboard Pillow Pack	**3AX81**	100	Cardboard Pillow Pack	**2AJ13**	100
25 dB	M	Yellow	E-A-R EXPRESS	3M	Cardboard Pillow Pack	**3NHH6**	100	Cardboard Pillow Pack	**3NHH7**	100



Banded Ear Plugs

- Reusable band with disposable tips

Ideal for intermittent use when switching between noisy and quiet areas. Less bulky than ear muffs and more convenient than individual ear plugs, they protect hearing where high levels of noise reduction aren't needed. Reusable band holds replaceable tips in place and allows them to be more easily inserted and removed than standard ear plugs. Band can be worn over the head, under the chin, or behind the neck; it can also rest around the neck when plugs aren't in use.

NRR	Size	Ear Plug Color	Series	Brand	Banded Ear Plugs Item No.	Banded Ear Plugs Pairs Per Pkg.	Replacement Tips Item No.	Replacement Tips Pairs Per Pkg.
Bell Shape								
25 dB	M	Green	Jazz Band	Moldex	**3EAU4**	1	**3EAU3**	10
Cone Shape								
28 dB	M	Yellow	E-A-Rflex	3M	**3NHP2**	1	**3NHP3**	5
20 dB	M	Yellow	E-A-R Caboflex	3M	**6AP94**	1	**3NHN5**	5
Pod Shape								
23 dB	M	Orange	QB3	Honeywell Howard Leight	**8TKJ4**	1	**5FV19**	50
25 dB	Universal	Orange	QB2	Honeywell Howard Leight	**9UA93**	1	**5FV21**	50

Find more information on Hearing Protection on page 1643.

Bell Shape
2GMP3

Cylinder Shape
2NFC8

Bullet Shape
22ED79

Contoured-T Shape
4DY86

Cylinder Shape
2NFC7

Flanged Shape
14L954

Flanged Shape
3GYD9

Pod Shape
23X920

Pod Shape
2NFC9

MOLDEX 3M Condor Honeywell HOWARD LEIGHT

Metal-Detectable Ear Plugs

- Disposable; except Flanged and Pod Shape are reusable

Include metallic components that can be sensed by a metal detector. Commonly worn by workers in food manufacturing and pharmaceutical processing plants so that ear plugs lost on the production line can be easily found, to help prevent contamination of products.

Plugs expand within the ear to form a seal that reduces sound levels and helps prevent hearing loss in noisy work environments. Corded to help keep them from falling off, and allow them to rest around your neck when not in use.

Note: For more information on plug shapes, see page 1643.

NRR	Insertion Method	Size	Ear Plug Color	Pack Type	Series	Brand	Item No.	Pairs Per Pkg.
Bullet Shape								
33 dB	Roll-Down	M	Blue	Plastic Bag	SparkPlugs(R)	Moldex	**2GMP3**	100
32 dB	Roll-Down	M	Yellow	Plastic Bag	E-A-Rsoft(TM)	3M	**2NFC8**	200
32 dB	Roll-Down	M	Blue	Plastic Bag	Condor	Condor	**22ED79**	100
Contoured-T Shape								
33 dB	Roll-Down	Universal	Blue/Orange	Plastic Bag	Laser Trak	Honeywell Howard Leight	**4DY86**	100
Cylinder Shape								
33 dB	Roll-Down	L	Yellow	Cardboard Pillow Pack	E-A-R(TM) Classic(TM)	3M	**2NFC7**	200
Flanged Shape								
25 dB	Push-In	M	Yellow	Plastic Bag	E-A-R(TM) UltraFit(TM)	3M	**14L954**	200
25 dB	Push-In	Universal	Blue	Plastic Bag	SmartFit	Honeywell Howard Leight	**3GYD9**	100
Pod Shape								
28 dB	Push-In	M	Yellow	Plastic Bag	E-A-R(TM) Push-Ins(TM)	3M	**23X920**	200
25 dB	Push-In	M	Yellow	Cardboard Pillow Pack	E-A-R(TM) EXPRESS(TM)	3M	**2NFC9**	100

MOLDEX

Metal-Detectable Ear Plug Dispensing System

Convenient all-in-one unit consists of a disposable dispenser, prefilled with a supply of metal-detectable ear plugs. Dispenses ear plugs one or two at a time to minimize waste and supply clean plugs for each user. Throw out the container when empty to eliminate the hassle of refilling. Dispenser must be wall mounted with the included bracket. Once installed, the bracket can be reused with replacement Moldex dispensers.

NRR	Cord Options	Ear Plug Color	Size	Pack Type	Series	Item No.	Pairs Per Pkg.
Metal Detectable Bullet Shape							
33 dB	Corded	Blue/White	M	Plastic Bag	SparkPlugs	**32MU07**	150

Find more information on Hearing Protection on page 1643.

MOLDEX

Ear Plug Dispensing Systems

Consists of a disposable dispenser prefilled with a supply of ear plugs to provide a convenient all-in-one unit. Dispenser can be thrown out when empty to eliminate the hassle of refilling. Protects ear plugs from dust while keeping them readily available for use. Dispense ear plugs one or two at a time to minimize waste and supply clean ear plugs for each user. Require wall mounting and include a bracket for installation. Once installed, the bracket can be reused with replacement Moldex dispensers.

NRR	Cord Options	Ear Plug Color	Size	Series	Pack Type	Item No.	Pairs Per Pkg.
Bullet Shape							
33 dB	Uncorded	Multicolor	M	SparkPlugs	Loose	**2FLK9**	250
33 dB	Uncorded	Multicolor	M	SparkPlugs	Loose	**2FLL1**	500
33 dB	Uncorded	Green	M	Pura-Fit	Loose	**2FLL4**	250
33 dB	Uncorded	Green	M	Pura-Fit	Loose	**2FLL5**	500
33 dB	Corded	Multicolor	M	SparkPlugs	Plastic Bag	**32MU06**	150
33 dB	Corded	Green	M	Pura-Fit	Plastic Bag	**32MU08**	150
33 dB	Uncorded	Assorted	M	One-Stop PlugShop®	Loose	**3NHC7**	750
Pod Shape							
30 dB	Corded	High-Visibility Green	M	Twist-In PlugStation®	Plastic Bag	**52ZV35**	150

2FLL1

Honeywell
HOWARD LEIGHT

Ear Plug Dispensers and Refills

Dispensers release ear plugs one or two at a time with just the twist of a knob, to provide clean ear plugs for each user. Protect ear plugs from dust and contamination. Simple plug-n-play refill with prefilled canisters, or minimize waste with zip-top bags. Wall-mount, or place on a flat surface.

NRR	Ear Plug Color	Size	Series	Dispensers Item No.	Dispensers Pairs Per Pkg.	Canister Refills Item No.	Canister Refills Pairs Per Pkg.	Bag Refills Item No.	Bag Refills Pairs Per Pkg.
Bell Shape									
33 dB	Orange	M/L	HL400	**60UN01**	400	**468F30**	800	**54FH94**	2,000
Contoured-T Shape									
32 dB	Pink/Yellow	Universal	HL400	**60UM99**	400	**468F33**	400	**54FH95**	2,000
30 dB	Green	Universal	HL400	**60UN02**	400	**468F32**	800	**468F36**	2,000

60UN02

468F30

54FH94

3M

Ear Plug Dispensers and Refills

Use with 3M refills to provide a dispensing point that protects ear plugs from dust while keeping them readily available for use. Dispense ear plugs one or two at a time to minimize waste and supply clean ear plugs for each user. Mount dispensers to a wall or place them on a flat surface.

NRR	Ear Plug Color	Size	Series	Dispensers Item No.	Dispensers Pairs Per Pkg.	Refills Item No.	Refills Pairs Per Pkg.
Bell Shape							
33 dB	Orange	M	One Touch; E-A-R Classic	**65RJ90**	500	**45JW41**	500
Bullet Shape							
33 dB	Yellow	M	One Touch; E-A-R Classic; Yellow Neons	**65RJ87**	500	**30FX18**	500
33 dB	Orange/Yellow	M	One Touch; E-A-R Classic; SuperFit	**65RJ92**	500	**30FX19**	500
33 dB	Yellow	L	E-A-Rsoft; Yellow Neon Blasts; One Touch	**65RJ88**	500	**30FX23**	500
33 dB	Red/Yellow	M	E-A-Rsoft; FX	**65RJ89**	500	**3GY50**	500
29 dB	Yellow	L	One Touch; E-A-R Classic; Yellow Neons	**65RJ91**	400	**45JW42**	500
Cylinder Shape							
30 dB	Orange/Yellow	M	One Touch; E-A-R Classic; SuperFit	**65RJ86**	500	**3NHL1**	500
29 dB	Yellow	M	One Touch; E-A-R Classic	**65RJ85**	500	**3NHK9**	500

65RJ88 Dispenser shown with included refill

30FX23 Refill

Find more information on Hearing Protection on page 1643.

Dispenser 3WU31 with Refill 3WU37 (Sold Separately)

3WU33

3WU37

3WU35

Honeywell HOWARD LEIGHT

Ear Plug Dispenser and Refills

Highly visible crank-handle dispenser provides a permanent location for workers to access disposable ear plugs. Tough anodized aluminum construction withstands constant use. Ideal for large factories and process industries that are looking to eliminate packaging waste. Wall-mountable. Holds 500 pairs of disposable ear plugs, sold separately.

NRR	Shape Shape Refills	Ear Plug Color	Size	Series	Item No.	Pairs Per Pkg.
Bell Shape - Dispenser Refills						
33 dB	Bell Shape Refills	Coral	M	MAX	**3WU33**	500
30 dB	Bell Shape Refills	Orange	S	MaxSmall	**29EZ70**	500
Contoured-T Shape - Dispenser Refills						
32 dB	Contoured-T Shape Refills	Magenta/Yellow	Universal	Laser Lite	**3WU37**	500
30 dB	Contoured-T Shape Refills	Green	M	MAX Lite	**3WU35**	500
Ear Plug Dispenser						
	Leight® Source 500				**3WU31**	

23Z422

3TCN5

Empty Ear Plug Dispensers

Dispensers can hold ear plugs of any brand or style to meet the needs of workers in different areas of a facility. Provide a cost-effective alternative to branded dispensers and allow open access for refilling and acquiring ear plugs. Can be wall mounted or placed on a flat surface to create a dispensing point for ear plugs.

Capacity	Mounting Style	Dispenser Lid Style	H	W	D	Item No.
Acrylic						
100 Pairs	Table Top, Wall	Hinged Lid	5 ⅞ in	9 in	6 in	**23Z422**
200 Pairs	Table Top, Wall	Open	10 ⅞ in	10 ⅜ in	10 ⅛ in	**23Z424**
200 Pairs	Table Top, Wall	Open	13 ¼ in	11 ⅞ in	8 in	**23Z423**
High Impact PETG						
100 Pairs	Wall	Open	3 ¼ in	9 in	6 ¾ in	**3TCN5**
100 Pairs	Wall	Hinged Lid	3 ¼ in	9 in	6 ¾ in	**3TCN6**
100 Pairs	Table Top, Wall	Hinged Lid	11 in	6 in	8 in	**4GMR9**
200 Pairs	Wall	Open	11 in	10 ½ in	10 ¼ in	**3TCN4**
200 Pairs	Table Top, Wall	Hinged Lid	11 in	12 in	8 in	**4GMT1**

26X629

475M53

499M92

21DE18

26X623

3M Honeywell HOWARD LEIGHT MSA The Safety Company Condor

Passive Ear Muffs

Passively block noise by relying on the insulating materials of the padded ear cups that create a seal around the ears. Typically worn in areas where workers don't need to speak with one another and the goal is to block all or most surrounding noise. Ideal for environments with intermittent noise because they can rest around the neck when not in use. As the NRR increases, ear muffs tend to get bulkier due to the larger ear cups and increased insulation materials.

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Behind-the-Neck					
31 dB	No	Black	X	3M	**475M51**
29 dB	No	Black, Red	105	3M Peltor	**3NKY7**
28 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M97**
26 dB	No	Black, Green	101	3M Peltor	**3NZF2**
25 dB	No	Black	X	3M	**475M48**
25 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M96**
22 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M95**
21 dB	No	Black	95	3M Peltor	**4T018**
Hard Hat-Mounted					
31 dB	Yes	Black	X	3M Peltor	**52JH59**
27 dB	No	Black, Red	105	3M Peltor	**1C137**
27 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499N01**
27 dB	No	Black, Yellow	VeriShield 100	Honeywell Howard Leight	**499N02**
27 dB	Yes	Gray	SoundControl HPE	MSA	**5LE90**
26 dB	Yes	Black	X	3M	**475M53**
25 dB	Yes	Gray	SoundControl SH	MSA	**22EY59**
24 dB	Yes	Black, Yellow	X	3M Peltor	**52JH56**
24 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M99**
23 dB	No	Yellow	98	3M Peltor	**4T019**
21 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M98**
20 dB	Yes	Black	X	3M	**475M52**
18 dB	No	Black, Red	Condor	Condor	**26X629**

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Multi-Position					
26 dB	Yes	Yellow	EM-105	Condor	**2AAG4**
22 dB	Yes	Maroon	1000	3M	**5AM41**
21 dB	Yes	Red	Condor	Condor	**26X623**
Over-the-Head					
31 dB	Yes	Black	X	3M Peltor	**21DE18**
30 dB	No	Black, Red	105	3M Peltor	**1C139**
30 dB	No	Black, Green	105	3M Peltor	**3JNF6**
30 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M93**
30 dB	No	Black, Yellow	VeriShield 100	Honeywell Howard Leight	**499M94**
27 dB	No	Black	101	3M Peltor	**4T017**
27 dB	Yes	Black, Chartreuse	X	3M Peltor	**21DE17**
27 dB	No	Black, Yellow	VeriShield 100	Honeywell Howard Leight	**499M92**
26 dB	No	Yellow	Condor	Condor	**26X627**
26 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M91**
25 dB	No	Yellow	98	3M Peltor	**4T016**
25 dB	Yes	Yellow	Condor	Condor	**26X622**
24 dB	No	Red	Condor	Condor	**26X625**
24 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M89**
24 dB	No	Black	VeriShield 100	Honeywell Howard Leight	**499M90**
21 dB	No	Black	95	3M Peltor	**4T023**
21 dB	No	Red	Condor	Condor	**26X626**

Find more information on Hearing Protection on page 1643.

3M

Communication Ear Muffs

Two-way communication headsets with noise-canceling microphone allow users to clearly deliver and receive messages even when surrounded by high levels of noise. Built-in programmable two-way radio and bluetooth technology for easy wireless connection. Include rechargeable Li-Ion battery and charger.

NRR	Dielectric	Shell Color	Series	Item No.
Over-the-Head				
28 dB	No	Blue	WS™ LiteCom PRO III	**406W26**
Behind-the-Neck				
28 dB	No	Blue	WS™ LiteCom PRO III	**406W27**
Hard Hat Mounted				
25 dB	No	Blue	WS™ LiteCom PRO III	**406W28**

406W26

406W28

Honeywell HOWARD LEIGHT 3M MSA The Safety Company

Impulse Noise Protection Ear Muffs

Electronically filter out constant, loud noise and short bursts of high-volume noise. Electronic hearing protection ear muffs reduce, or attenuate, loud noises while still allowing you to hear ambient sound. Often worn to protect against impulse (or impact) noises such as gunfire or metal stamping, pressing, and forging sounds.

NRR	Dielectric	Shell Color	Series	Brand	Item No.
Hard Hat-Mounted					
21 dB	No	Yellow	Impact	Honeywell Howard Leight	**3WU34**
Over-the-Head					
30 dB	No	Black, Yellow	Impact Pro	Honeywell Howard Leight	**52ZV60**
30 dB	No	Black	Impact Pro	Honeywell Howard Leight	**52WT14**
26 dB	No	Black	TacticalPro	3M Peltor	**3RXE9**
22 dB	No	Black	Impact Sport	Honeywell Howard Leight	**49AF61**
19 dB	No	Gray	Tactical	3M Peltor	**2TV55**
19 dB	Yes	Black	Supreme Pro	MSA	**3THJ1**

3WU34

52ZV60

3RXE9

2TV55

3THJ1

3M Honeywell HOWARD LEIGHT MSA The Safety Company

Replacement Pad Kits for Ear Muffs

KIts extend the life and restore the performance of ear muffs by replacing worn or lost ear cup pads. Can also be used to supply clean pads for a new user. New pads optimize hearing protection by maintaining a proper seal around the ears.

For Use With	Brand	Item No.
Replacement Ear Muff Pad Kit		
Peltor Model No. MT32H01 and MT32H02	3M Peltor	**3NHA1**
MT, HT, Alert, TacticalPRO, PowerCom, LiteC	3M Peltor	**3NHA2**
Most Welding Helmets, Sandblasting Hoods, Hard Caps, Bump Caps And Fire Helmets, 21dB Mfr. No. H6 HY6/V	3M Peltor	**3NHE1**
All Howard Leight Ear Muffs and Thunder T3s	Honeywell Howard Leight	**3NKW4**
All Howard Leight Ear Muffs and Thunder T2s/T2H	Honeywell Howard Leight	**3NKW5**
All Howard Leight Ear Muffs and Thunder T1/T1H/T1F	Honeywell Howard Leight	**3NKW6**
All Howard Leight Ear Muffs and Leightning L3s/ L3H/L3N/L3HV and Viking V3 Ear Muffs	Honeywell Howard Leight	**3NKW7**
All Howard Leight Ear Muffs and Leightning L2s/L2H/L2N/L2F/L2FHV/V2	Honeywell Howard Leight	**3NKW9**
All Howard Leight Ear Muffs and Viking V1/ Leightning L1s/L1H/L1N/L1HHV/L0N/L0F	Honeywell Howard Leight	**3NKX2**
X1A and X1P3E Peltor Earmuffs X Series	3M Peltor	**21DE24**
X2A and X2P3E Peltor Earmuffs X Series	3M Peltor	**21DE25**
X3A and X3P3E Peltor Earmuffs X Series	3M Peltor	**21DE26**
X4A and X4P3E Peltor Earmuffs X Series	3M Peltor	**21DE27**
X5A and X5P3E Peltor Earmuffs X Series	3M Peltor	**21DE28**
Mfr. No. R-01526	Honeywell Howard Leight	**36G712**
Supreme Pro(TM) Headsets	MSA	**3THJ3**
Howard Leight Mfr. No. 1030110 Stereo Ear Muffs	Honeywell Howard Leight	**6TUK9**

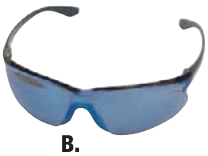
3NKW7

3NKW9

21DE25

3THJ3

A.
4VCL5



B.
4VCJ9

C.
4VCE5

D.
1FYX7

E.
1ETK5

F.
4VCL8

G.
1FYY3

H.
4VCK6

I.
52WR04

J.
2VLA1

K.
4VCD6

L.
1VW18

M.
1VW17

N.
4EY99

O.
5JE26

P.
4VCD8

Q.
4VAZ6

Condor

Frameless Safety Glasses

- Meet ANSI Z87.1
- 99.9% UV protection

A. Addison—Has 9-base lenses and provides 180° field of vision. Curved temples with soft tips. Nonslip nosepiece.

B. Brooklyn—Wraparound frame, curved temples with integrated side protection, and universal nosebridge.

C. Chaise Rocks—Nonslip design with bayonet temples and universal nosebridge.

D. Condor V—Features flexible, contoured spatula temples.

E. Condor Mini V—Smaller size eyewear features flexible spatula shield temples.

F. Condor Visitor—Universal size with spatula temples. 4JND6 to 4JND8 are 1-pc. construction, vented style. Fit over most prescription glasses, except 4VCL8 is designed for smaller faces.

G. Enticer—1-pc. wraparound design with cushioned bayonet temples and nosepiece.

H. Jbird—Has 9-base lenses and spatula temples with soft tips. Allows 180° field of vision.

I. Kramer VP—Wraparound design and soft rubber temple ends for a more comfortable fit.

J. Oxulux—Wraparound design with contoured padded temples, nonslip gel pad, and universal nosebridge.

K. Oxulux OTG (Over-the-Glass)—Wraparound design with contoured padded bayonet temples, nonslip gel pad, and universal nosebridge. Universal size. Fits over most prescription glasses.

L. Quest—1-pc. design with adjustable temples and integral brow bridge provides a wide field of vision.

M. Quest OTG (Over-the-Glass)—Extra-large size. 1-pc. design with adjustable temples and integral brow bridge provides a wide field of vision.

N. Persuader—Contoured floating lens improves field of vision. Wraparound frame, bayonet temples with cushioned sleeves, and soft gel nosepiece.

O. Wasko—1-pc. molded frame and lens with padded flexible temples.

P. Wasko Mini—1-pc. molded frame and lens with padded flexible bayonet temples. Small size.

Q. Winger—Integrated side shields and metal alloy temples with nonslip rubber head grips.

Key	Lens Color	Lens Coating	Frame Color	Item No.
Addison				
	Clear	Anti-Scratch	Clear	4VCK9
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Clear	4VCL2
A	Gray	Anti-Scratch	Gray	4VCL1
	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Gray	4VCL4
	Amber	Anti-Scratch	Amber	4VCL5
Brooklyn				
	Clear	Anti-Scratch	Black	4VCJ2
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Black	4VCJ3
B	Gray	Anti-Scratch	Black	4VCJ4
	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Black	4VCJ5
	Light Gray	Anti-Scratch	Black	4VCJ8
	Blue Mirror	Anti-Scratch	Black	4VCJ9
Chaise Rocks				
	Clear	Anti-Scratch	Black/Clear	4VCE2
C	Clear	Anti-Fog	Black/Clear	4VCE5
	Gray	Anti-Fog	Gray	4VCE6
Condor V				
	Clear	Uncoated	Clear	4EY97
	Clear	Anti-Scratch	Clear	1FYX6
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Clear	1FYX7
	Gray	Anti-Scratch	Gray	1FYX8
	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Gray	4VCG2
D	Gray Mirror	Anti-Scratch	Gray	2ERE6
	Light Gray	Anti-Scratch	Clear	1XPR2
	Amber	Anti-Scratch	Amber	1XPJ5
	Blue	Anti-Scratch	Blue	1XPK6
	Blue Mirror	Anti-Scratch	Brown	4VCF8
Condor Mini V				
	Clear	Uncoated	Clear	4VCG3
	Clear	Anti-Scratch	Clear	1ETK2
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Clear	1ETK3
	Gray	Anti-Scratch	Gray	1ETK5
	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Gray	4VCG4
E	Light Gray	Anti-Scratch	Clear	1ETK6
	Gray Mirror	Anti-Scratch	Gray	4VCG6
	Amber	Anti-Scratch	Amber	1ETK4
	Blue	Anti-Scratch	Blue	4VCG5
	Blue Mirror	Anti-Scratch	Brown	4VCG7
Condor Visitor				
	Clear	Anti-Scratch	Clear	4VCL8 *
	Clear	Uncoated	Clear	4VCL9 †
F	Gray	Anti-Scratch	Gray	4JND6
	Amber	Anti-Scratch	Amber	4JND7
	Green	Scratch-Resistant	Green	4JND8
Enticer				
	Clear	Anti-Scratch	Black	1FYY3
G	Clear	Anti-Fog	Black	4VCE9
	Gray	Anti-Scratch	Black	1FYY4
	Light Gray	Anti-Scratch	Black	1FYY5
Jbird				
	Clear	Anti-Scratch	Black	4VCK2
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Black	4VCK4
	Gray	Anti-Scratch	Black	4VCK3
H	Light Gray	Anti-Scratch	Black	4VCK8
	Amber	Anti-Scratch	Black	4VCK5
	Blue Mirror	Anti-Scratch	Black	4VCK6
Kramer VP				
I	Gray	Anti-Fog	Black	52WR03
	Clear	Anti-Fog	Black	52WR04
Oxulux				
	Clear	Anti-Scratch	Clear	2VKZ9
	Gray	Anti-Scratch	Gray	2VLA1
J	Gray Mirror	Anti-Scratch	Clear	2VLA3
	Gray Mirror	Anti-Scratch	Gray	2VLA4
	Light Blue	Scratch-Resistant	Blue	2VLA2
Oxulux OTG (Over-the-Glass)				
K	Clear	Anti-Fog	Gray	4VCD5
	Gray	Anti-Fog	Gray	4VCD6
Quest				
	Clear	Uncoated	Black	1VW15
L	Clear	Anti-Scratch	Black	1VW16
	Gray	Anti-Scratch	Black	1VW18
Quest OTG (Over-the-Glass)				
M	Clear	Anti-Scratch	Black	1VW17
Persuader				
	Clear	Anti-Fog	Black	4VAW4
	Gray	Anti-Scratch	Black	4EY99
N	Gray	Anti-Fog	Black	4VAW5
	Gray Mirror	Anti-Scratch	Gray	4FA10
	Clear	Anti-Scratch	Black	4EY98
Wasko				
	Clear	Anti-Scratch	Clear	5JE26
	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Clear	4VCH1
	Gray	Anti-Scratch	Gray	5JE27
O	Light Gray	Anti-Scratch	Black/Clear	1FYY1
	Gray Mirror	Scratch-Resistant	Gray	4VCH3
	Amber	Anti-Scratch	Amber	1FYX9
	Blue	Anti-Scratch	Blue	1FYY2
Wasko Mini				
P	Clear	Anti-Scratch	Clear	4VCD7 *
	Gray	Anti-Scratch	Gray	4VCD8 *
Winger				
	Clear	Anti-Scratch	Silver	1VT96
Q	Gray	Scratch-Resistant	Silver	1VT97
	Gray Mirror	Anti-Scratch	Silver	1VT98
	Gray Mirror	Scratch-Resistant	Gray	4VAZ6

** Small size. † Pkg. of 12.*

Find Eyewear Accessories on page 1665.

Condor

Half-Frame Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Wraparound design with universal nosebridge.

A. Agitator—Rubber temple tips and the included lanyard cord help keep the eyewear secure. Half-frame glasses have ventilated, straight-back flexible temples and a built-in rubber nosepiece.

B. Maddog III—1-pc. design with adjustable temples and integral side shields.

C. Nagle—Wraparound frame with 10-base lenses and curved temples. Allows 180° field of vision. Universal nosepiece.

D. Nome—Spatula temples and clear, soft, gel nose pad.

F. Persuader Metal—Wraparound metal frame with spatula temples and adjustable nosebridge.

G. PMXTREME—Built-in rubber nosepiece for a comfortable fit and rubber temple tips help keep glasses secure and in place. Include a black lanyard cord for extra security while wearing.

H. ProFlyer—Dual polycarbonate lenses, bayonet temples, and metal frame.

I. Spirit—1-pc. design with adjustable temples, integral side shields, and wide field of vision.

J. Thecla—Durable polycarbonate frame with dual lenses. Flexible fingers on the soft nosepiece and long padded temple tips for comfort and fit. Includes cord.

K. Thunder—Ratchet-action temples and nonslip rubber head grips.

Key	Lens Color	Lens Coating	Frame Color	Item No.
Agitator				
A	Smoke Mirror	Anti-Scratch	Black	52YP40
	Amber	Anti-Scratch	Black	52YP41
	Gray	Antifog, Anti-Scratch, Anti-Static	Camouflage	52YP42
	Amber	Antifog, Anti-Scratch, Anti-Static	Camouflage	52YP43
	Blue	Anti-Scratch	Black	52YP44
	Blue	Anti-Scratch	Black	52YP45
Maddog III				
B	Clear	Anti-Scratch	Blue	4VCA2
	Clear	Anti-Scratch	Black	1VT99
	Gray	Anti-Scratch	Black	1VW10
Nagle				
C	Gray	Anti-Scratch	Blue	4VCH7
Nome				
D	Clear	Anti-Scratch	Blue	4VAZ1
	Clear	Antifog	Black	4VAY5
	Gray Mirror	Anti-Scratch	Black	1FYZ6
	Light Gray	Scratch-Resistant	Blue	4VAZ3
	Gray Mirror	Anti-Scratch	Black	1FYZ5
	Amber	Anti-Scratch	Black	4VAY7
	Blue	Anti-Scratch	Black	4VAY6
	Blue Mirror	Anti-Scratch	Blue	4VAY9
	Clear	Anti-Scratch	Black	5JE24
	Gray	Anti-Scratch	Black	5JE25
	Amber	Anti-Scratch	Black	4VAY8
Persuader Metal				
F	Gray	Scratch-Resistant	Gray	4VAX7
PMXTREME				
G	Clear	Anti-Scratch	Black	23Y617
	Clear	Antifog, Anti-Scratch, Anti-Static	Black	23Y618
	Gray	Anti-Scratch	Black	23Y619
	Gray	Antifog, Anti-Scratch, Anti-Static	Black	23Y620
	Light Gray	Anti-Scratch	Black	23Y625
ProFlyer				
H	Gray	Scratch-Resistant	Gray	1FYY8
	Gray Mirror	Anti-Scratch	Gray	1FYY9
Spirit				
I	Clear	Anti-Scratch	Black	1VW22
	Clear	Anti-Scratch	Blue	1VW24
	Clear	Antifog	Black	4VCC7
	Clear	Antifog	Blue	4VCD2
	Clear	Anti-Scratch	Blue	1VW25
Thecla				
J	Gray	Anti-Scratch	Black	30ZC64
	Light Gray	Anti-Scratch	Black	30ZC67
	Welding Shade(s)	Anti-Scratch	Black	30ZC69
Thunder				
K	Clear	Anti-Scratch	Black	1VW11
	Clear	Anti-Scratch	Blue	1VW14
	Gray	Anti-Scratch	Black	1VW12
	Gray Mirror	Anti-Scratch	Black	1VW13
	Welding Shade(s)	Anti-Scratch	Black	4VCA7
	Clear	Antifog	Black	4VCA4

A. 52YP41

B. 1VW10

C. 4VCH7

D. 4VAY9

F. 4VAX7

G. 23Y625

H. 1FYY9

I. 1VW24

J. 30ZC69

K. 1VW12

A.
52YP48

B.
52YP36

C.
1FYZ1

D.
52WR01

Condor

Full-Frame Safety Glasses

- Meets ANSI Z87.1-2010
- 99.9% UV protection

A. Antagonist—Compact, lightweight, wraparound design features flexing straight temples for secure fit. Polycarbonate lenses. Nylon frame.

B. Elect—Lightweight contemporary frame has an integrated nosepiece. The wraparound sunglass style fits all faces. With microfiber storage bag.

C. Freeze II—Nonwraparound lenses with bayonet temples and molded-in nosepiece.

D. Swagger—Full-frame wraparounds have bayonet temples with soft rubber ends for comfort and fit. Polycarbonate lenses and frame.

Key	Lens Color	Lens Coating	Frame Color	Item No.
Antagonist				
A	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Black	**52YP47**
	Blue	Anti-Scratch	Black	**52YP48**
Elect				
B	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Black	**52YP35**
	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Black	**52YP36**
Freeze II				
C	Clear	Anti-Scratch	Black	**1FYZ1**
	Gray	Anti-Scratch	Black	**1FYZ2**
Swagger				
D	Clear	Anti-Fog	Black	**52WR01**
	Gray	Anti-Fog	Black	**52WR02**

22ED38

Condor

Sealed Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Nylon frame has foam in the facepiece that fits snugly around eyes, and indirect venting helps keep liquid splash from getting in. Versatile Donyi design lets you switch as needed from temples to elastic strap.

Lens Color	Lens Coating	Frame Color	Item No.
Clear	Anti-Scratch	Black	**22ED38**
Clear	Anti-Fog	Black	**22ED39**
Clear	Anti-Fog	Black	**22ED40**
Gray Mirror	Anti-Fog	Black	**22ED43**

Find Eyewear Accessories on page 1665.

A.
4AG93

B.
3TB96

C.
2CVD2

D.
4XR20

E.
401Y60

F.
4T513

G.
6T359

Honeywell UVEX

Frameless Safety Glasses

- Meet ANSI Z87.1-2015
- Meets CSA Z94.3
- 99.9% UV protection

A. Astro OTG (Over-the-Glass) 3001—Designed to be worn over prescription glasses. Unilens wraparound design features universal nosebridge; cushioned, adjustable temple lengths; and adjustable lens angle.

- Meets Military V_0 Ballistic Test for Impact

B. Falcon—9-base unilens provides coverage with a wide field of vision. Molded-in nosebridge, adjustable temple lengths, and lens angle adjustment.

C. Ignite—Frameless design features 9-base wraparound unilens with adjustable nose-piece and cushioned temples.

- Meets Military V_0 Ballistic Test for Impact

D. Skyper—Wraparound unilens has molded-in nose-bridge and side shields. Adjustable comfort-cushioned temples with adjustable temple lengths and lens angle adjustment.

E. SVP 200 Series—Frameless, low-profile glasses fit most faces and are very lightweight for all-day wear. Wraparound 10-base lenses, molded nosepiece, and comfort-able, flexible temple tips.

F. Ultra-spec 2000—Unilens design is antistatic with built-in side shields, browguard, and adjustable temple lengths.

G. Ultra-spec OTG (Over-the-Glass) 2001—Designed to be worn over prescription glasses. Molded-in side shields, brow-guard, universal nosebridge, and flexible and adjustable temple lengths.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Astro OTG (Over-the-Glass) 3001					
	Clear	Anti-Fog	Black	S2500C	**4AG93**
A	Gray		Black	S2504	**4BC01**
	Green	Anti-Scratch	Black	S2508	**5AD84**
	Green		Black	S2509	**2AD38**
Falcon					
B	Clear	Anti-Fog	Black	S4500X	**3TB94**
	Amber		Black	S4501X	**3TB96**
Ignite					
	Clear	Anti-Scratch	Black/Silver	S4400	**2CVD2**
	Clear		Black/Silver	S4400X	**2CVD3**
	Clear	Anti-Fog	Red	S4410X	**2CVD7**
	Gray		Black, Gray	S4401X	**2CVD4**
C	Gray		Red	S4411X	**2CVD8**
	Gray Mirror		Black, Gray	S4403	**3NUL4**
	Reflect 50	Scratch-Resistant	Black, Gray	S4402	**2CVD5**
	Reflect 50		Red	S4412	**3NUL3**
Skyper					
D	Clear	Anti-Fog	Black	S1900X	**4XR20**
SVP 200 Series					
	Clear		Clear	SVP200	**401Y53**
	Clear	Anti-Fog, Anti-Scratch	Clear	SVP201	**401Y54**
	Clear		Blue	SVP205	**401Y58**
	Clear		Pink	SVP208	**401Y61**
E	Gray	Scratch-Resistant	Gray	SVP202	**401Y55**
	Gray	Anti-Fog, Anti-Scratch	Gray	SVP203	**401Y56**
	Amber	Anti-Fog	Amber	SVP204	**401Y57**
	Blue Mirror	Scratch-Resistant	Blue	SVP206	**401Y59**
	Light Gray		Blue	SVP207	**401Y60**
Ultra-spec 2000					
F	Clear	Anti-Fog	Black/Clear	S0250X	**4T513**
Ultra-spec OTG (Over-the-Glass) 2001					
G	Clear	Anti-Scratch	Clear	S0112	**6T359**
	Gray		Gray	S0113	**6T360**

Honeywell UVEX

Half-Frame Safety Glasses

- Meet ANSI Z87.1-2015
- 99.9% UV protection

A. A400 Series—Wraparound design with universal nosebridge and inte-grated side protection.

- Meets CSA Z94.3

B. A700 Series—Wraparound 9-base design provides distortion-free 180° field of vision. Universal nosebridge and soft temple tips.

- Meets CSA Z94.3

C. A800 Series—Wraparound 9-base lenses with distortion-free 180° field of vision. Flexible temples and soft, nonslip nosepiece.

D. A900 Series—Wraparound design with soft padded temple and nonslip nosebridge.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
A400 Series					
	Clear		Clear	A400	**3TE11**
	Gray	Anti-Scratch	Gray	A401	**3TE12**
A	Gray Mirror		Gray	A403	**3TE13**
	Gray Mirror	Scratch-Resistant	Clear	A404	**3NRZ2**
A700 Series					
	Clear	Antifog	Clear	A705	**2CVH1**
	Clear	Anti-Scratch	Clear	A700	**2TFW9**
	Amber		Amber	A702	**2CVG8**
B	Gray	Scratch-Resistant	Gray	A701	**3NUD3**
	Gray Mirror	Anti-Scratch	Gray	A704	**3NUD4**
	Blue		Gray	A703	**2CVG9**
A800 Series					
	Clear	Anti-Scratch	Clear	A800	**2TFX1**
	Clear	Antifog	Clear	A805	**2CVH2**
	Gray	Scratch-Resistant	Gray	A801	**3NUD5**
C	Gray	Antifog	Gray	A806	**3NUD6**
	Amber	Scratch-Resistant	Clear	A802	**3UXR4**
	Gray Mirror	Anti-Scratch	Gray	A804	**2DBD3**
	Blue		Gray	A803	**3UXR5**
A900 Series					
	Clear	Anti-Scratch	Black	A900	**3UXU2**
D	Clear	Antifog	Black	A901	**3UXU3**
	Gray		Black	A903	**3UXU5**

A.
3TE13

B.
2CVG8

C.
2CVH2

D.
3UXU5

Scan. Order. Done.
Details on page A1.

Find Eyewear Accessories on page 1665.

Half-Frame Safety Glasses

Honeywell UVEX

- 99.9% UV protection

A. Acadia—Versatile, sporty, indoor/outdoor wraparound style has sculpted, padded temples and premium integrated hinge mechanisms for fit, comfort, and compliance. Soft ribbed nosepiece is designed to minimize slippage.
- Meet ANSI Z87.1

B. Avatar—Designed for maximum all-day comfort and customizable fit, with indirect venting, ratchet temples, 9-base wraparound, adjustable temple length and lens tilt, and flexible nose pads.
- Meet ANSI Z87.1 and CSA Z94.3

C. Bandit—Wraparound unilens design. Features dual lens with replaceable lenses, adjustable temples, and molded-in side shields.
- Meet ANSI Z81.1

D. Fuse—Wraparound 9-base lenses with adjustable nose pads and soft, flexible temple tips. Includes adjustable, breakaway retainer.
- Meet ANSI Z81.1 and CSA Z94.3

E. Genesis—Dual 9-base wraparound lenses feature a shock-absorbing browguard and a ventilation channel to prevent fogging. Unilens design, flexible nose pads, adjustable temple length, and lens angle adjustment.
- Meet ANSI Z87.1 and CSA Z94.3

F. Genesis S—Same features as Genesis eyewear, but feature a 6% smaller frame for workers with slimmer facial profiles.
- Meet ANSI Z87.1 and CSA Z94.3
- Meet Military V0 Ballistic Test for Impact

G. Genesis X2—Same features as Genesis eyewear,
but with a sportier design and cushioned temples.
- Meet ANSI Z87.1 and CSA Z94.3

H. Genesis XC—Same features as Genesis eyewear, but provide 20% more coverage for extra protection.

I. Mercury—Wraparound dual-lens design offers a 180° field of vision with additional side protection. Soft, flexible nosepiece conforms to almost any nasal profile to reduce slippage while soft, padded temples provide secure, no-slip fit.
- Meet ANSI Z87.1 and CSA Z94.3

J. Millennia—Wraparound dual 9-base unilens design. Feature browguard and built-in side shields for top and side protection. Include adjustable, breakaway retainer.
- Meet ANSI Z87.1 and CSA Z94.3

K. Millennia Sport—Lenses have curved temples and universal nosebridge. Includes adjustable, breakaway retainer.
- Meets ANSI Z87.1 and CSA Z94.3

L. Protégé—Expandable, floating unilens design with wraparound brow, cushioned temples, and a soft, flexible nosepiece.
- Meet ANSI Z87.1 and CSA Z94.3

M. Vapor II—Wraparound frame with 9-base lenses provides 180° field of vision. Universal nosepiece. 4FE55 include adjustable, breakaway retainer.
- Meet ANSI Z87.1 and CSA Z94.3

A. 49ZY71

B. 401Y33

C. 3WLJ4

D. 6WE84

E. 3WLV4

F. 4UCJ3

G. 5CHF0

H. 55TA69

I. 24C271

K. 3PA44

L. 55TA82

M. 9FAD0

Key	Lens Color	Lens Coating	Frame Color	Item No.
Acadia				
A	Gray	Antifog	Black	49ZY71
	Red Mirror	Scratch-Resistant	Black	49ZY74
Avatar				
B	Clear		Black	401Y28
	Clear		Red	401Y33
	Clear		Blue	401Y37
	Clear		Blue	401Y40
	Clear	Antifog, Anti-Scratch	Blue	401Y45
	Clear		Blue	401Y46
	Gray		Black	401Y29
	Gray		Red	401Y34
	Gray		Blue	401Y38
	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Blue	401Y41
	Amber		Black	401Y30
	Clear	Anti-Scratch	Black	401Y43
	Clear		Red	401Y44
	Reflect 50		Black	401Y31
	Reflect 50		Red	401Y35
	Gray	Scratch-Resistant	Blue	401Y42
	Blue Mirror		Black	401Y32
	Blue Mirror		Red	401Y36
	Blue Mirror		Blue	401Y39
Bandit *				
C	Amber	Scratch-Resistant	Black	3WLJ4
	Amber Mirror		Black	4R989
Fuse				
D	Clear	Antifog, Anti-Scratch	Gray	3NRZ3
	TSR Gray	Scratch-Resistant	Gray	6WE84
	Gray Mirror		Gray	6WE85
Genesis *				
E	Clear		Blue/Red/White	3WLV6
	Amber	Antifog	Blue	3WLW1
	Gray		Black	2CVE9
	Clear		Black	6XF73
	Clear		Blue	6XF80
	Clear	Antifog, Anti-Scratch	Black	38TJ78
	Clear		Blue	55TA48
	Clear		Red	55TA50
	Amber		Black	6XF75
	Amber		Black	55TA36
	Amber		Black	38TJ79
	Amber		Blue	55TA49
	Dark Gray		Black	55TA44
	Gray		Black	55TA45
	SCT-Gray		Black	55TA37
	SCT-Low IR	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA41
	SCT-Blue		Black	55TA43
	Welding Shade(s)		Black	55TA38
	Welding Shade(s)		Black	55TA39
	Welding Shade(s)		Black	55TA40
	SCT-Vermillion		Black	55TA42
	Clear		Black	6XF72
	Clear		Blue	6XF79
	Clear		Blue/Red/White	3WLV4
	Clear	Anti-Scratch	Black	2NYJ5
	Amber		Black	6XF76
	Amber		Black	6XF77
	Green		Black	2CVF1
	Amber		Blue	6XF83
	Amber Mirror	Scratch-Resistant	Blue	6XF84
	Clear		Black	6XF78

Key	Lens Color	Lens Coating	Frame Color	Item No.
Genesis S				
F	Clear		Black/Gray	4UCH8
	Clear	Antifog, Anti-Scratch	Black/Gray	4UCH9
	Clear		Black/Gray	4UCJ1
	Amber	Scratch-Resistant	Black, Gray	4UCJ2
	SCT-Reflect 50		Black, Gray	4UCJ3
Genesis X2				
G	Amber	Antifog	Black, Yellow	5CHF0
	SCT-Reflect 50	Scratch-Resistant	Blue, Gray	2CVF4
Genesis XC *				
H	Clear	Anti-Scratch	Black	3JTR5
	Clear	Antifog, Anti-Scratch	Black	4FE60
	Clear		Black	38TJ82
	Gray	Scratch-Resistant	Black	3NRW4
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA66
	Gray	Antifog, Anti-Scratch	Black	4FE61
	Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	38TJ83
	Gray		Black	55TA67
	SCT-Reflect 50	Scratch-Resistant	Black	3NRW5
	SCT-Gray		Black	3NRW6
	SCT-Low IR	Antifog	Black	3NRW7
	SCT-Gray		Black	55TA61
	SCT-Vermillion		Black	55TA68
	SCT-Blue		Black	55TA69
	SCT-Low IR	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA62
	Welding Shade(s)		Black	55TA63
	Welding Shade(s)		Black	55TA64
	Welding Shade(s)		Black	55TA65
Genesis XC Prescription Insert Holder				
H	—	—	Silver	4FE62
Mercury				
I	Clear	Antifog, Anti-Scratch	Black/Gray	24C266
	Clear		Black/Gray	24C267
	Gray	Scratch-Resistant	Black, Gray	24C268
	Gray	Antifog, Anti-Scratch	Black/Gray	24C269
	Amber	Scratch-Resistant	Black, Gray	24C270
	Amber	Antifog	Black, Gray	24C271
	SCT-Reflect 50	Scratch-Resistant	Black, Gray	24C272
	Blue Mirror		Black, Gray	24C274
Millennia				
J	Clear	Anti-Scratch	Black	4YH38
	Clear		Blue	4YH46
	Clear	Antifog	Black	3PA38
	Gray	Anti-Scratch	Black	4YH39
	SCT-Reflect 50	Scratch-Resistant	Black	4YH40
	Gray Mirror		Black	4YH41
Millennia Sport				
K	Clear	Anti-Scratch	Black	3PA44
Protege				
L	Clear	Antifog, Anti-Scratch	Black	3NTY7
	Clear	Antifog, Anti-Scratch, Anti-Static	Black	1FEU6
	Clear	Antifog, Anti-Scratch	Black	38TJ86
	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA83
	Gray	Antifog	Tan	1FEV1
	Gray	Antifog, Anti-Scratch	Black	38TJ87
	SCT-Reflect 50	Scratch-Resistant	Black	1FEU8
	Blue	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	55TA82
	SCT-Low-IR		Black	55TA84
	Gray Mirror	Scratch-Resistant	Black	4UCN9
Vapor II				
M	Clear	Anti-Scratch	Black	9FAD0

** Replacement lenses available on Grainger.com.*

Find Eyewear Accessories on page 1665.

B.
55TA35

A.
6T273

C.
19UA85

E.
6T361

D.
3TB99

F.
5CHF2
(Lenses Sold Separately)

Honeywell
UVEX

Full-Frame Safety Glasses

- Meet ANSI Z87.1-2015
- 99.9% UV protection

A. Astrospec 3000—Unilens wraparound design with universal nosebridge, adjustable lens angle, and replaceable lenses.
- Meets CSA Z94.3
- Meets Military V_0 Ballistic Test for Impact

B. Hypershock—Dielectric glasses are nonconductive, making them ideal for applications where accidental exposure to an electrical charge is possible. The full frame design offers high impact protection, with streamlined padded temples and a molded nosepiece for a more secure and comfortable fit. Uvextreme Plus anti-fog lens coating provides you fog-free vision and greater scratch resistance for long life.
- Meet CSA Z94.3-2007

C. Livewire Sealed Eyewear—Foam subframe fits contours around the eyes for a comfortable seal. Padded, flexing temples with lens angle adjustment. Convert for goggle use with the included adjustable cloth headband. Hydrophilic/hydrophobic HydroShield coating technology offers longer-lasting fog-free performance.
- Meets CSA-Z94.3

D. Tomcat—Dual-lens design with metal frame. Adjustable nose pads and flexible padded temple grips.
- Meet CSA Z94.3-2007

E. Ultra-spec 1000—Wraparound design. Uncoated unilens with molded-in side shields, browguard, and universal nosebridge.
- Meets CSA Z94.3

F. Uvex RX Frame Only—Prescription-adaptable, unisex frame features adjustable nose pad bridge, regular hinge, and skull temples. Includes removable dust dam. Style number SW06E. RX lenses are not included.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Astrospec 3000					
A	Clear	Anti-Scratch	Black	S135	**3KJ41**
	Clear		Blue	S129	**3KJ40**
	Clear	Antifog, Anti-Scratch	Blue/Red/White	S1169	**3KJ39**
	Clear	Antifog	Black	S1359C	**6T270**
	Clear		Blue	S1299C	**6T271**
	Clear		Blue/Red/White	S1169C	**6T273**
	Gray	Anti-Scratch	Black	S1369	**6T274**
	Welding Shade(s)		Black	S1111	**3AX39**
	Welding Shade(s)		Black	S1112	**3AF26**
Astrospec 3000 Replacement Lenses					
A	Clear	Anti-Scratch	—	S535	**3KN11**
	Clear	Antifog	—	S535C	**6T278**
	Gray	Anti-Scratch	—	S536	**6T279**
Astrospec 3000					
A	Clear	Anti-Scratch	Black	S1359	**3WLF4**
Hypershock					
B	Clear	Antifog, Anti-Scratch	Black	S2950X	**55TA27**
	Clear		Clear	S2965X	**55TA28**
	Clear	Antifog, Anti-Scratch, Polarized	Black	S2940HS	**55TA29**
	Gray		Black	S2941HS	**55TA30**
	Amber		Black	S2942HS	**55TA31**
	Blue	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2951HS	**55TA32**
	Clear	Polarized	Brown	S2960HS	**55TA33**
	Amber	Antifog, Anti-Scratch, Polarized	Brown	S2961HS	**55TA34**
	Clear		Clear	S2970HS	**55TA35**
Livewire Sealed Eyewear					
C	Amber	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2602HS	**54EM97**
	SCT-Reflect 50	Antifog	Black	S2604XP	**19UA85**
	SCT-Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S2605HS	**54EM98**
	Laser Eyewear		Black	S2609HS	**54EM99**
	Clear	Antifog, Anti-Scratch	Black	S2600HS	**45FF17**
	Amber		Black	S2601HS	**45FF18**
Tomcat					
D	Clear	Anti-Scratch	Gray	S2450	**3TB97**
	Gray		Gray	S2451	**3TB98**
	Gray Mirror		Gray	S2453	**3TB99**
	Gray Mirror	Scratch-Resistant	Gray	S2454	**3TE10**
Ultra-spec 1000					
E	Clear	Uncoated	Clear	S301CS	**6T361**
Uvex RX Frame Only					
F	—	—	Yellow/Brown/Clear	18892	**5CHF2**
	—		Clear	18893-H5	**5CHF3**

12A562

12A559

Honeywell NORTH

North Adaptec Safety Glasses

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Multiadjustable design provides a comfortable, customized fit for almost any face, with adjustable nosebridge, vented cushioned frame, and ratcheting temple hinges. Temple tension adjustment helps prevent slipping and allows comfortable extended wear. Hydrophilic/hydrophobic Uvex HydroShield coating technology offers 90x longer-lasting fog-free performance.

Lens Color	Lens Coating	Frame Color	NARROW Item No.	REGULAR Item No.	WIDE Item No.
Half-Frame					
Clear	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**401Y68**	**401Y74**	**401Y64**
Smoke	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**401Y66**	**401Y71**	**401Y62**
Amber	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**12A557**	—	—
Amber	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**401Y67**	**401Y72**	**401Y63**
Smoke	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	**401Y69**	**401Y75**	—
Clear	Anti-Fog, Anti-Static, Scratch-Resistant	Black	—	**12A562**	—
Clear	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	—	**401Y76**	—
IR 5.0	Anti-Fog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	—	**401Y73**	—
Clear	Anti-Fog, Anti-Static, Scratch-Resistant	Blue	—	—	**12A569**
Smoke	Anti-Fog, Anti-Static, Scratch-Resistant	Blue	—	—	**12A571**
Full-Frame					
Shade 3.0	Anti-Fog, Anti-Static, Scratch-Resistant	Black	**12A559**	—	**12A575**
Indoor/Outdoor Mirror	Anti-Fog, Anti-Static, Scratch-Resistant	Black	—	**12A566**	**12A574**

Honeywell UVEX

Tirade Sealed Safety Glasses

38TJ72

- Met ANSI Z87.1-2010
- Meet CSA Z94.3
- 99.99% UVA/UVB protection

Offer protection in high particulate locations where debris, dirt, and dust present the risk of eye injury. Feature a large unilens design for a wide field of unobstructed peripheral vision, and a soft foam subframe to help ensure a comfortable gap-free fit. The Uvextra anti-fog coating helps keep lenses clear. Indirect ventilation channels on the subframe provide superior dust filtration. The quick-release hinge system converts easily from temples to headband, with removable temples and standard adjustable headband included.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Clear	Anti-Fog	Black	S4040	**38TJ72**
Gray	Anti-Fog	Black	S4041	**38TJ73**
Amber	Anti-Fog	Black	S4042	**38TJ74**
Gray Mirror	Anti-Fog	Black	S4043	**38TJ75**
Gray	Anti-Fog	Black	S4044	**38TJ76**

MCR SAFETY

Safety Glasses

- Meet ANSI Z87+
- 99.9% UV protection

35ZA30

Backdraft—Lightweight, frameless design features soft TPR internal side shields for extra protection from particles or debris. Also include secure, comfortable rubber nose pad and temple sleeves. 35ZA29 and 35ZA31 have superior MAX3 hard lens coating. 35ZA30 and 35ZA32 feature MAX6 coating, with 6 times the antifog properties than traditional coatings.

35ZA42

Pantera—Hypoallergenic foam seal helps protect eyes from dust and debris. Adjustable temple length provides comfortable fit.

35ZA36

Hornet DX—Replaceable vented hypo-allergenic foam gasket surrounds the inside of the lens to protect against impact and airborne debris. Include a removable strap for a secure, goggle-like fit in a lightweight design.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Backdraft				
Clear	Anti-Scratch	Gray	BD110P	**35ZA29**
Clear	Antifog, Anti-Scratch	Gray	BD110PF	**35ZA30**
Gray	Scratch-Resistant	Gray	BD112P	**35ZA31**
Gray	Antifog, Anti-Scratch	Gray	BD112PF	**35ZA32**
Clear	Scratch-Resistant	Gray	BD119	**35ZA34**
Gray Mirror	Scratch-Resistant	Gray	BD117	**35ZA33**
Full-Frame				
Pantera				
Clear	Antifog, Anti-Scratch	Black	PN110AF	**35ZA40**
Clear	Antifog, Anti-Scratch	Clear	PN120AF	**35ZA42**
Gray	Antifog, Anti-Scratch	Black	PN112AF	**35ZA41**
Hornet DX				
Clear	Antifog, Anti-Scratch	Black	HDX110AF	**35ZA35**
Gray	Antifog, Scratch-Resistant	Black	HDX112AF	**35ZA36**
Hornet Accessories				
RX Insert			HDXINSERT	**35ZA37**
Replacement Elastic Strap			HDXSTRAP	**35ZA39**

3NTN1

2ETE8

3NTN6

MCR SAFETY

22JJ42

Safety Glasses

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Checklite—Lightweight single-lens glasses are sized to fit smaller faces. Frameless design features colored spatula temples.

- Meet MIL-PRF-31013 military standards
- Meet CAN/CSA Z94.3-16

Bearkat—The one-piece wraparound lens design allows you unobstructed vision and the tight fit can provide greater safety. Lenses have a scratch-resistant Duramass coating and the flexible temples with non-slip soft material offer a comfortable fit. Bearkat 3 models feature a soft, secure gel nosepiece.

- Meet MIL-PRF-31013 military standards, CAN/CSA Z94.3-16; except Bearkat 3 only meet ANSI Z87.1-2015

Rubicon—Curved lens provides distortion-free 180° field of vision. Spring-hinge temples and nonslip temple sleeves.

Klondike Plus—Features adjustable temples, 11° base curve lens, and TPR nosepiece. 5-position ratchet temples.

Swagger—Provides great comfort and excellent seal. Nonslip low-profile bayonet temples are thick and wide for better side protection and a bold modern look. Dual lens design. Soft TPR temple and nose pad material for long-wearing comfort.

- Meet ANSI Z87.1-2015
- 22JJ40 polarized lenses reduce glare

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Checklite				
Clear	Anti-Scratch	Clear	CL110	**3NTN2**
Clear	Antifog, Anti-Scratch	Clear	CL110AF	**9CT05**
Gray	Anti-Scratch	Gray	CL112	**3NTN4**
Clear	Scratch-Resistant	Clear	CL119	**3NTN1**
Bearkat				
Clear	Anti-Scratch	Black/Clear	BK110	**3NTZ2**
Clear	Antifog, Anti-Scratch	Black/Clear	BK110AF	**3NTZ3**
Gray	Antifog, Anti-Scratch	Black/Gray	BK112AF	**3NTZ5**
Gray	Anti-Scratch	Black/Gray	BK112	**9W570**
Light Blue	Anti-Scratch	Black/Blue	BK113	**3NTZ6**
Light Gray	Anti-Scratch	Black	BK119	**8E319**
Bearkat 3				
Clear	Anti-Scratch	Clear	BK310	**21U060**
Clear	Antifog, Anti-Scratch	Clear	BK310AF	**21U061**
Light Blue	Anti-Scratch	Blue	BK313	**21U064**
Rubicon				
Clear	Antifog	Black/Silver	T4110AF	**2ETE5**
Gray	Antifog	Black/Silver	T4112AF	**2ETE6**
Light Blue	Antifog, Anti-Scratch	Black/Silver	T4113AF	**3NTK5**
Red Mirror	Scratch-Resistant	Black, Gray	T411R	**2ETE7**
Dark Green Mirror	Scratch-Resistant	Black, Gray	T411G	**2ETE8**
Half-Frame				
Klondike Plus				
Clear	Anti-Scratch	Black	KD310	**3NTN6**
Gray	Anti-Scratch	Black	KD312	**3NTN8**
Clear	Antifog, Anti-Scratch	Black	KD310AF	**3NTN7**
Clear	Antifog, Scratch-Resistant	Black	KD319AF	**3NTP4**
Light Blue	Scratch-Resistant	Black	KD313	**3NTP1**
Full-Frame				
Swagger				
Clear	Antifog, Anti-Scratch	Clear	SR140AF	**22JJ41**
Gray	Antifog, Scratch-Resistant	Clear	SR142AF	**22JJ42**
Blue Mirror	Anti-Scratch	Clear	SR148B	**22JJ43**
Red Mirror	Scratch-Resistant	Clear	SR14R	**22JJ44**
Gray	Scratch-Resistant	Black	SR112Z	**22JJ40** *

** Polarized lens.*

Find Eyewear Accessories on page 1665.

Kimberly-Clark PROFESSIONAL

Smith & Wesson Safety Glasses

- Meet ANSI Z87.1+2010
- 99.9% UV protection

Magnum 3G—Comfortable 3-point fit and self-adjusting nose pad with rubber fingers. Cut-to-shape lens reduces distortion around the edges.

44 Magnum—Feature a 4c x 7c base curve so the lenses can hug your face both side to side and vertically for a secure fit. The brown, 1-pc. lenses are ideal for outdoor or bright environments.

Equalizer—Wraparound dual-lens style with 8-base curve. Sport grip temples help reduce slippage. Includes microfiber carrying bag that can be used as a cleaning cloth.

38 Special—Contoured design with rubber grip temples for a more secure fit.

Elite—Wraparound dual-lens style with 8-base curve and wide temple. Includes microfiber carrying bag that can be used as a cleaning cloth.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Magnum 3G				
Clear	Scratch-Resistant	Black	19799	**2LAC1**
Clear	Scratch-Resistant	Silver	19961	**3WLK1**
Clear	Antifog	Black	19794	**475P15**
Gray	Scratch-Resistant	Black	19823	**2LAC2**
Amber	Scratch-Resistant	Black	19826	**2LAC3**
Amber Mirror	Scratch-Resistant	Black	19940	**3WLK3**
44 Magnum				
Light Gray	Antifog	Black	23454	**475P13**
Half-Frame				
Equalizer				
Clear	Scratch-Resistant	Gray	21294	**3UYD5**
Clear	Antifog, Scratch-Resistant	Gray	21296	**3UYD7**
Amber	Scratch-Resistant	Red	21299	**3UYD6**
Gray	Antifog, Scratch-Resistant	Gray	21297	**3UYD8**
Light Gray	Uncoated	Gray	21298	**3UXN5**
Blue Mirror	Scratch-Resistant	Blue	21301	**3UXN6**
Full-Frame				
38 Special				
Clear	Scratch-Resistant	Black	19856	**2LAC4**
Gray	Uncoated	Black	19859	**2LAC6**
Elite				
Clear	Antifog, Scratch-Resistant	Black	21302	**2UYG6**
Gray	Antifog, Scratch-Resistant	Black	21303	**2UYG5**

2LAC2

475P13

3UYD8

2LAC6

2UYG6

Kimberly-Clark PROFESSIONAL

Safety Glasses

- Meet ANSI Z87.1+
- 99.9% UV protection

V30 Nemesis VL—Compact, frameless no-brow design improves upward and peripheral vision and accommodates smaller faces. Slip-stop temple reduces slipping. Includes neck cord.

V20 Visio—One-piece polycarbonate lenses with 3-pt. adjustable temples for a customized fit and enhanced comfort. 3WMD1 has blue mirror lenses to reduce glare and are ideal for use outdoors.

V30 Nemesis—Sport style with soft-touch temples. Enhanced nosepiece design channels away sweat. Contoured rubber temples for comfort. Includes neck cord.

V40 HellRaiser—Sunglass style with soft temples.

V50 Calico—Lightweight wraparound style has interchangeable temple bars and a head strap for tight fit. Cushioned brow bar provides additional ventilation and comfort.

- Meet CSA Z94.3-2007, EN 166-2001

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
V30 Nemesis VL				
Clear	Anti-Scratch	Gray	20470	**21A170**
Gray	Anti-Scratch	Gray	25704	**21A171**
Amber Mirror	Anti-Scratch	Camouflage	20472	**21A172**
Gray	Antifog, Anti-Scratch	Gray	20471	**475P07**
Light Gray	Antifog, Anti-Scratch	Gray	29112	**475P08**
Half-Frame				
V20 Visio				
Clear	Antifog, Anti-Scratch	Gray	14471	**3WMC8**
Clear	Uncoated	Gray	14470	**3WMD3**
Gray	Anti-Scratch	Black	14473	**3WMC9**
Gray	Anti-Scratch	Gray	14472	**3WMD4**
Blue	Anti-Scratch	Black	14475	**3WMD1**
Light Gray	Anti-Scratch	Black	14476	**3WMD2**
V30 Nemesis				
Clear	Anti-Scratch	Black	25676	**2UYF3**
Clear	Antifog, Anti-Scratch	Black	25679	**3NTT9**
Clear	Antifog	Red	47378	**475P02**
Clear	Antifog	Blue	47384	**475P03**
Clear	Antifog	Gray	47388	**475P04**
Gray	Anti-Scratch	Red	22611	**3UXX8**
Gray	Antifog	Blue	47387	**475P05**
Gray	Antifog	Gray	47383	**475P06**
Gray	Antifog, Anti-Scratch	Black	22475	**21A163**
Gray	Anti-Scratch	Camouflage	22609	**3UXX6**
Gray	Anti-Scratch	Black	25688	**2UYF4**
Amber	Anti-Scratch	Black	25659	**2UYF6**
Amber	Anti-Scratch	Black	22476	**475P01**
Amber	Anti-Scratch	Camouflage	22610	**3UXX7**
Blue	Anti-Scratch	Blue	19639	**21A164**
Amber Mirror	Anti-Scratch	Camouflage	19644	**2UYF5**
Light Gray	Anti-Scratch	Black	25685	**2UYF7**
Welding Shade(s)	Anti-Scratch	Black	25692	**3UXR6**
Welding Shade(s)	Anti-Scratch	Black	25671	**3UXR7**
Full-Frame				
V40 HellRaiser				
Clear	Anti-Scratch	Black	20539	**475P11**
Clear	Antifog, Anti-Scratch	Black	28615	**2UYG4**
Gray	Anti-Scratch	Black	25714	**2UYG3**
Amber	Scratch-Resistant	Black	20541	**475P12**
Blue	Antifog, Anti-Scratch	Black	20543	**4VMX5**
Blue	Anti-Scratch	Black	20542	**21A169**
Dark Gray	Antifog, Anti-Scratch	Black	25716	**475P10**
V50 Calico				
Clear	Antifog, Anti-Scratch	Black	25672	**21A165**
Gray	Antifog, Anti-Scratch	Black	25675	**21A167**
Amber	Uncoated	Black	25674	**21A166**

21A170

3WMD2

2UYF4

21A169

21A165

A.
4DY81

C.
1VJZ4

E.
46F398

B.
6TKE7

D.
46F390

H.
5PA80

3M

Safety Glasses

- Meet ANSI Z87.1
- 99.9% UV protection

A. Virtua—Wraparound design with contoured, flexible temples.

B. Virtua AP—High-wrap lenses fit snug against face for better viewing area. Lightweight frame weighs less than 1 oz.

C. Virtua V4—Wraparound design with flexible temples.

D. Virtua CCS—Eyewear has a removable foam gasket with airflow vent for a comfortable, cushioning seal to limit exposure to dust. Ideal for humid environments. Includes Corded earplug Control System (CCS) designed to keep eyewear and earplugs attached (earplugs sold separately).
- Meet CSA Z94.3-2007

E, F & G. SecureFit—Lightweight glasses feature 3M Pressure Diffusion Temple Technology that automatically self-adjusts for a secure, comfortable fit.
- Meet CSA Z94.3 (200 Series)

H. BX—Adjustable-length contoured soft-tip temples, soft nosebridge, and 3 adjustable lens angles.
- Meet CSA Z94.3

Key	Lens Color	Lens Coating	Temple Color	Mfr. Model	Item No.
Frameless					
Virtua					
A	Clear	Uncoated	Clear	11228	**5JDW7**
A	Clear	Anti-Scratch	Clear	11326	**4DY81**
A	Clear	Antifog, Anti-Scratch	Clear	11329	**5PA86**
A	Gray	Anti-Scratch	Gray	11327	**4DY82**
A	Light Gray	Anti-Scratch	Clear	11328	**3NRU1**
Virtua AP					
B	Clear	Anti-Scratch	Clear	11819	**6TKF0**
B	Clear	Antifog, Anti-Scratch	Clear	11818	**6TKE9**
B	Gray	Anti-Scratch	Gray	11815	**6TKE6**
B	Blue	Anti-Scratch	Light Blue	11816	**6TKE7**
B	Amber	Scratch-Resistant	Amber	11817	**6TKE8**
B	Gray Mirror	Anti-Scratch	Clear	11847	**6TKF1**
Virtua V4					
C	Gray	Scratch-Resistant	Black/Gray	11671	**1VJZ4**
Virtua CCS with Foam Gasket					
D	Clear	Antifog, Anti-Scratch	Blue	11872	**46F390**
D	Gray	Antifog, Anti-Scratch	Gray	11873	**46F391**
D	Gray Mirror	Antifog, Anti-Scratch	Blue	11874	**46F392**
SecureFit					
E	Clear	Anti-Scratch	White	SF201AS	**46F396**
E	Clear	Antifog, Anti-Scratch	White	SF201AF	**46F393**
E	Gray	Anti-Scratch	Gray	SF202AS	**46F397**
E	Gray	Antifog, Anti-Scratch	Gray	SF202AF	**46F394**
E	Amber	Anti-Scratch	Amber	SF203AS	**46F398**
E	Amber	Antifog, Anti-Scratch	Amber	SF203AF	**46F395**

Key	Lens Color	Lens Coating	Temple Color	Mfr. Model	Item No.
F	Clear	Antifog, Anti-Scratch	Black/Neon	SF401AF	**20KL03**
F	Clear	Antifog, Anti-Scratch	Red/Gray	1334244	**475M59**
F	Clear	Antifog, Anti-Scratch	Blue/Gray	SF401SGAF-BLU	**475M60**
F	Gray	Antifog, Anti-Scratch	Black/Neon	SF402AF	**20KL04**
F	Gray	Antifog, Anti-Scratch	Blue/Gray	1334246	**475M61**
F	Gray	Antifog, Anti-Scratch	Blue/Gray	1334249	**475M64**
F	Amber	Antifog	Black/Yellow	1334250	**475M65**
F	Amber	Antifog	Black/Brown	1334251	**475M66**
F	Orange	Antifog	Black/Brown	1334252	**475M67**
SecureFit with Removable Foam-Lined Gasket					
F	Clear	Antifog, Anti-Scratch	Blue/Gray	1334247	**475M62**
F	Clear	Antifog, Anti-Scratch	Black	SF401AF-FM	**52JH70**
F	Gray Mirror	Anti-Scratch	Black	SF410AS-FM	**52JH72**
F	Gray	Antifog	Blue/Gray	1334248	**475M63**
F	Gray	Antifog	Black	SF402AF-FM	**52JH73**
Half-Frame					
SecureFit					
G	Clear	Antifog, Anti-Scratch	Gray	SF601SGAF	**54DF76**
G	Gray	Antifog	Gray	SF611AS	**406W43**
G	Gray	Antifog	Gray	SF602SGAF	**54DF77**
G	Amber	Antifog	Gray	SF603SGAF	**406W31**
G	Gray	Antifog	Gray	SF607SGAF	**406W33**
G	Clear	Antifog	Gray	SF617AS	**406W34**
G	Welding Shade(s)	Antifog	Gray	SF630AS	**406W35**
G	Welding Shade(s)	Antifog	Gray	SF650AS	**406W36**
G	Transition	Scratch Resistant	Gray	SF613AS	**406W44**
SecureFit with Removable Foam-Lined Gasket					
G	Gray	Antifog	Gray	SF602SGAF-FM	**406W32**
G	Clear	Antifog, Anti-Scratch	Gray	SF601SGAF-FM	**54DF78**
BX					
H	Clear	Antifog, Anti-Scratch	Silver and Black	11380	**5PA80**
H	Gray	Antifog, Anti-Scratch	Silver and Black	11381	**5PA81**

PYRAMEX

Safety Glasses

29XT49

23Y612

45CR30

23Y594

- Meet ANSI Z87.1-2015
- 99.9% UV light protection

Intruder—Lightweight, frameless protection with an integrated nose-piece that delivers a good fit for most facial sizes.

Itek—Feature a soft nosepiece for comfort. Curved lens provides excellent side protection. Rubber temple tips for all-day comfort.
- Meet CAN/CSA Z94.3-2007

EverLite—The H2MAX anti-fog coating helps withstand repeated cleaning without losing adhesion and ensures maximum clarity in extreme temperatures and humidity. The soft nosepiece delivers a snug fit.

Highlander Plus—Extended sideshield design provides additional protection. Indirect vented foam helps reduce fogging. Includes adjustable strap with quick release.
- Meet CSA Z94.3-07

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Intruder				
Gray	Anti-Scratch	Gray	S4120S	**29XT49**
Clear	Anti-Scratch	Clear	S4110S	**34WR27**
Itek				
Clear	Anti-Scratch	Clear	S5810S	**23Y604**
Clear	Antifog, Anti-Scratch, Anti-Static	Clear	S5810ST	**23Y605**
Gray	Anti-Scratch	Gray	S5820S	**23Y606**
Gray	Antifog, Anti-Scratch, Anti-Static	Gray	S5820ST	**23Y607**
Blue	Anti-Scratch	Blue	S5860S	**23Y609**
Gray Mirror	Anti-Scratch	Indoor/Outdoor	S5880S	**23Y612**
Half-Frame				
Ever-Lite				
Clear	Antifog, Anti-Scratch, Anti-Static	Black	SB8610DT	**45CR28**
Gray	Antifog, Anti-Scratch, Anti-Static	Black	SB8620DT	**45CR29**
Gray	Anti-Scratch	Black	SB8623D	**45CR31**
Gray Mirror	Antifog, Anti-Scratch, Anti-Static	Black	SB8680DT	**45CR30**
Full-Frame				
Highlander Plus				
Clear	Antifog, Anti-Scratch, Anti-Static	Black	SBG5010DT	**23Y594**
Gray	Antifog, Anti-Scratch, Anti-Static	Black/Gray	SBG5020DT	**23Y595**
Gray Mirror	Antifog, Anti-Scratch, Anti-Static	Black/Gray	SBG5080DT	**23Y597**

Safety Glasses

DEWALT

Find Eyewear Accessories on page 1665.

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Distortion-free, impact-resistant polycarbonate lenses.

Protector—Lightweight glasses with rubber-tipped temples and comfortable design.

Contractor Pro—Lightweight design with soft rubber nosepiece and rubber-tipped temples.

Radius—10-base curved lens design provides maximum eye coverage and protection.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Protector				
Clear	Scratch-Resistant	Clear, Yellow	DPG54-1D	**3UYG3**
Clear	Antifog, Scratch-Resistant	Clear, Yellow	DPG54-11D	**3UYG4**
Gray	Scratch-Resistant	Gray, Yellow	DPG54-2D	**3UYG5**
Light Gray		Clear/Yellow	DPG54-9D	**3UYG6**
Contractor Pro				
Clear		Clear	DPG52-1	**3NUF4**
Gray	Scratch-Resistant	Gray, Yellow	DPG52-2	**3NUF6**
Light Gray		Clear, Yellow	DPG52-9	**3NUF8**
Light Blue		Blue, Yellow	DPG52-B	**3NUF9**
Clear	Antifog, Scratch-Resistant	Clear, Yellow	DPG52-11	**3NUF5**
Gray Mirror	Scratch-Resistant	Gray	DPG52-6	**3NUF7**
Full-Frame				
Radius				
Clear		Black	DPG51-1	**3NUN3**
Gray	Scratch-Resistant	Black	DPG51-2	**3NUN4**
Light Gray		Black	DPG51-9	**3NUN5**
Gray Mirror		Black	DPG51-6	**3NUP6**

3NUN4

3NUF6

3UYG4

Safety Glasses

RADIANS

- Meet ANSI Z87.1
- 99.9% UVA and UVB protection

Mirage—Sleek styling allows a comfortable perfect fit for both men and women and helps ensure worker acceptance. Provide a near perfect orbital seal with the economical dual-wraparound frame with 9.75 base lens. Glasses are extremely light, weighing less than 1 oz.

Rad-Sequel—Lightweight design and feature a soft rubber nosepiece and rubber-tipped temples for a secure and comfortable fit.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless				
Mirage				
Clear	Anti-Scratch	Clear	MR0110ID	**6XKD1**
Clear	Antifog, Anti-Scratch	Clear	MR01111ID	**6XKD2**
Gray	Uncoated	Gray	MR0120ID	**6XKD3**
Gray	Antifog	Gray	MR0121ID	**6XKD4**
Amber		Amber	MR0140ID	**6XKD5**
Blue	Uncoated	Blue	MR01B0ID	**6XKD6**
Gray Mirror		Silver	MR0160ID	**6XKD7**
Light Gray	Antifog	Clear	MR0190ID	**6XKD8**
Light Gray	Uncoated	Clear	MR0191ID	**6XKD9**
Rainbow Mirror	Scratch-Resistant	Rainbow	MR01R0ID	**6XKE0**
Rad-Sequel				
Clear	Anti-Scratch	Clear	RS1-10	**6XKF2**
Clear	Antifog, Anti-Scratch	Clear	RS1-11	**6XKF3**
Gray	Uncoated	Gray	RS1-20	**6XKF4**
Gray	Antifog	Gray	RS1-21	**6XKF5**
Gray Mirror	Scratch-Resistant	Gray	RS1-60	**6XKF6**
Blue	Uncoated	Blue	RS1-70	**6XKF7**
Light Gray		Black/Clear	RS1-90	**6XKF8**
Light Blue	Scratch-Resistant	Blue	RS1-B	**6XKF9**

6XKD8

6XKF4

Skullerz Safety Glasses

ergodyne

- Meet ANSI Z87.1+
- Meet CSA Z94.3
- Meet MIL-PRF 32432 impact requirements
- 99.9% UV protection

Models with anti-fog protection feature Fog-Off technology that won't wear off or wash off. Glasses having polarized lenses help to reduce glare.

Dagr—Feature sleek blade frame with co-injection rubber temples and a non-slip rubber nosepiece for a more comfortable fit.

Baldr—The large frame design allows for maximum coverage and glasses have co-injection rubber temples. Models with a foam gasket insert help to protect eyes by reducing debris entry.

Odin—Full-frame design with co-injection rubber temples and a comfortable fitting non-slip rubber nosepiece. Glasses having a foam gasket insert can protect eyes by reducing debris entry.

Dagr Foam Lined
42DC10

Odin Foam Lined
42DC55

Baldr
458P31

Lens Color	Lens Coating	Mfr. Model	BLACK FRAME Item No.	GRAY FRAME Item No.
Half-Frame				
Dagr				
Gray		DAGR	**458P96**	**458P90**
Gray		DAGR-AF	**458P98**	**458P92**
Clear		DAGR	**458P94**	—
Clear		DAGR-AF	**458P95**	**458P89**
Amber Mirror	Polarized	DAGR	**458P84**	—
Gray Mirror		DAGR	**458P85**	—
Amber		DAGR	**458P86**	—
Light Gray		DAGR	**458P99**	**458P93**
Light Gray		DAGR-AF	**458R01**	—
Dagr Foam Lined				
Gray		DAGR	**42DC06**	—
Clear	Polarized	DAGR	—	**42DC11**
Blue		DAGR	**42DC10**	—
Dagr with Polarized Lenses				
Gray	Polarized	DAGR-PZ	—	**458P91**
Dagr Foam Lined with Polarized Lenses				
Gray	Polarized	DAGR-PZ	**42DA69**	—
Full-Frame				
Baldr				
Gray		BALDR	**458P41**	—
Gray		BALDR-AF	**458P42**	**458P37**
Amber Mirror		BALDR	**458P31**	—
Gray Mirror		BALDR	**458P32**	—
Amber		BALDR	**458P33**	—
Clear	Polarized	BALDR-AF	**458P40**	**458P36**
Clear		BALDR	**458P39**	**52VY70**
Clear		BALDR- AF	**52VY66**	—
Light Gray		BALDR	**458P34**	—
Light Gray		BALDR-AF	**458P35**	—
Baldr with Polarized Lenses				
Gray	Polarized	BALDR-PZ	**52VY68**	—
Baldr Foam Gasket Insert				
—		BALDR-FGI	**52VY99**	—
Odin				
Gray		ODIN	**458P71**	—
Gray		ODIN-AF	—	**458P66**
Clear		ODIN	**458P70**	**458P63**
Clear	Polarized	ODIN-AF	—	**458P64**
Amber Mirror		ODIN	**458P57**	—
Amber		ODIN	**52VY78**	—
Light Gray		ODIN	**458P61**	—
Light Gray	Scratch-Resistant	ODIN	—	**458P67**
Light Gray		ODIN	**458P73**	—
Light Gray	Polarized	ODIN-AF	**458P74**	—
Light Gray		ODIN-AF	**52VY79**	—
Odin with Polarized Lenses				
Amber Mirror	Polarized	ODIN-PZ	**458P58**	—

Lens Color	Lens Coating	Mfr. Model	BLACK FRAME Item No.	GRAY FRAME Item No.
Odin Foam Lined				
Gray		ODIN	**42DC49**	**42DC55**
Clear		ODIN	**42DC46**	—
Clear		ODIN-AF	**42DC63**	—
Gray	Polarized	ODIN-AF	**42DC64**	—
Gray Mirror		ODIN	**42DC50**	—
Blue Mirror		ODIN	**42DC53**	—
Odin Foam Lined with Polarized Lenses				
Gray	Polarized	ODIN-PZ	**42DA74**	—
Odin Foam Gasket Insert				
—		ODIN-FGI	**52VZ01**	—

A.
20V733

B.
20V736

C.
45NA37

D.
20V725

E.
45NA50

F.
49YV86

G.
20V729

H.
20V746

Safety Glasses

bollé SAFETY

- Meet ANSI Z87.1-2010
- 99.99% UV protection

Select models feature permanent Platinum coating on both sides of the lens to offer high resistance to scratching and aggressive chemicals and help delay fogging.

A. Prism—Durable nonconductive polycarbonate frame, excellent coverage, upper brow protection, comfortable straight temples, and sport-style design.

B. Rush—Wraparound lightweight nonconductive frame and premium optical quality. Design includes upper brow protection, nonslip temples, and adjustable nonslip bridge with silicone nosepiece.

C. Rush+—Ultra-sporty design with a nonslip adjustable bridge and flexible co-injected temples to customize fit. Platinum coating.

D. Contour—Ultra-lightweight half-frame provides panoramic view. Nonslip temple tips, rubber nose pads, and reinforced bridge. Antistatic, stylish design, premium optics.

E. Silium+—Ultra-lightweight for comfort in extended wear, with a nonslip adjustable bridge and straight, highly flexible temples. Platinum coating.

F. Baxter—Highly wrap-around frame for total comfort. Waterproof foam and special strap attachment system offer effective protection against liquid and solid spray, and from dust. Platinum coating.

G. Lowrider—High-contour, close fitting design with rubber temples for a comfortable and nonslip fit. 20V730 has high-impact polarized lenses that provide true color definition while fighting harsh glare.

H. Tracker Sealed Eyewear and RX Holder—A rubberized eye seal keeps out dust and other fine particles, and the adjustable head strap assures a snug fit and optimal protection. Each accept a Prescription Insert Holder.

Key	Lens Color	Lens Coating	Frame Color	Includes*	Mfr. Model	Item No.
Frameless						
Prism						
A	Clear	Antifog, Anti-Scratch, Anti-Static	Black	AARC	40057	**20V731**
	Gray		Black	AARC	40058	**20V732**
	Gray Mirror		Black	AARC	40059	**20V733**
Rush						
B	Clear	Antifog, Anti-Scratch, Anti-Static	Clear	AARC	40070	**20V734**
	Gray		Gray	AARC	40071	**20V735**
	Gray		Black	AARC	40072	**20V736**
Rush+						
C	Clear	Antifog, Scratch-Resistant	Black/Red	MCP	41080	**45NA37**
	Gray	Antifog, Anti-Scratch, Anti-Static	Black/Gray	MCP	40208	**45NA38**
	Gray		Black/Gray	MCP	40225	**45NA39**
	Clear		Black/Yellow	MCP	40243	**49YV76**
	Gray	Antifog, Scratch-Resistant	Black, Yellow	MCP	40244	**49YV77**
Half-Frame						
Contour						
D	Clear	Antifog, Anti-Scratch, Anti-Static	Gray	AARC, MCP	40044	**20V723**
	Gray		Gray	AARC, MCP	40045	**20V724**
	Amber		Gray	AARC, MCP	40046	**20V725**
	Grey	Scratch-Resistant	Gray	AARC, MCP	40047	**20V726**
Silium+						
E	Clear	Antifog, Anti-Scratch, Anti-Static	Black/Gray	MCP	40237	**45NA49**
	Gray	Antifog, Scratch-Resistant	Black, Gray	MCP	40238	**45NA50**
	CSP		Black, Gray	MCP	40239	**45NA51**
Full-Frame						
Baxter						
F	Clear	Antifog, Anti-Scratch, Anti-Static	Black/Blue	ICS, MCP	40276	**49YV86**
	Gray	Antifog, Scratch-Resistant	Black, Blue	ICS, MCP	40277	**49YV87**
	Amber		Black/Blue	ICS, MCP	40278	**49YV88**
Lowrider						
G	Gray	Antifog, Anti-Scratch, Anti-Static	Black	AARC, MCP	40052	**20V729**
Lowrider with Polarized Lens						
G	Gray	Antifog, Anti-Scratch, Anti-Static, Polarized	Black	AARC, MCP	40053	**20V730**
Tracker (Sealed Safety Glasses)						
H	Clear	Antifog, Anti-Scratch, Anti-Static	Black/Gray	MCP, REAS	40085	**20V746**
	Gray		Black/Gray	MCP, REAS	40086	**20V747**
	Amber	Antifog, Scratch-Resistant	Black, Gray	MCP, REAS	40087	**20V748**
	Gray		Black, Gray	MCP, REAS	40088	**20V749**
	Gray	Antifog, Anti-Scratch, Anti-Static	Black/Gray	MCP, REAS	40089	**20V840**
Tracker (Sealed Safety Glasses) RX Prescription Insert Holder						
H	—		Clear	Rx Adapter	40090	**20V841**

** MCP Microfiber cleaning pouch, AARC Adjustable removable retainer cord, ICS Interchangeable cord and strap, REAS Removable Elastic Adjustable Strap*

A.
33UD48

B.
25AX62

C.
460X42

D.
5RXW5

E.
5RXV8

F.
4NXZ7

Safety Glasses

- Meet ANSI/ISEA Z87.1-2015
- Meet Ballistic Military MCEPS GL-PD 10-12
- 99.9% UV protection

Feature advanced lens and frame technologies for greater style and comfort. Copper lens color is best suited for driving applications. Select models have military-grade Vapor Shield antifog lens technology that can resist condensation, fog, and haze even under extreme temperatures and conditions. Glasses with TPR nose pads and temple tips prevent slipping and help keep glasses in place.

A. Delano G2—Stylish, eyewear with a large viewing area features flexible, soft rubber temples for added comfort.

B. Zorge G2—Durable, TR90/nylon frame with soft, rubber temples for comfort.

C. Caraz —Extra-lightweight wraparound frame switches easily between glasses and goggles. A removable EVA foam gasket is attached to the frame to help keep foreign particles away from the eyes. Models featuring polarized lenses can reduce glare in bright light conditions.

D. Dakura—Flexible wraparound frame and soft temples.

E. Kazbek—Flexible, soft-touch nylon wraparound frame. Edge-Flex temples and TPR nose pads. Wide fit glasses feature frames with an additional 22mm width at the temple. Multi-Fit models have an adjustable nosepiece for a more comfortable fit on a variety of facial structures.

F. Reclus—Durable and flexible TR90/nylon frame with soft TPR nose pads and temple tips for greater comfort and durability.

Key	Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Frameless					
Delano G2					
A	Clear	Anti-Scratch	Black	SD111-G2	**33UD46**
	Gray	Antireflective	Black	SD111AR-G2	**33UD47**
	Gray	Anti-Scratch	Black	SD116-G2	**33UD48**
Half-Frame					
Zorge G2					
B	Clear	Anti-Scratch	Black	DZ111-G2	**25AX59**
	Light Gray	Scratch-Resistant	Black	DZ111AR-G2	**25AX60**
	Amber	Anti-Scratch	Black	DZ112-G2	**25AX61**
	Light Blue		Black	DZ113-G2	**25AX62**
	Amber		Black	DZ114-G2	**33HY58**
	Gray		Black	DZ116-G2	**25AX63**
Zorge G2 with Vapor Shield Military-Grade Antifog Lens Technology					
B	Clear	Antifog, Anti-Scratch, Anti-Static	Black	DZ111VS-G2	**38NH49**
	Amber		Black	DZ112VS-G2	**38NH50**
	Light Blue	Antifog, Scratch-Resistant	Black	DZ113VS-G2	**38NH51**
	Gray	Antifog, Anti-Scratch, Anti-Static	Black	DZ116VS-G2	**38NH52**
Full-Frame					
Caraz					
C	Gray	Anti-Scratch	Black/Red	HZ136	**460X49**
	Gray	Scratch-Resistant	Black	HZ116-P1	**460X51**
Caraz with Polarized Lens					
C	Gray	Anti-Scratch, Polarized	Camouflage	THZ216CF	**460X42**
Dakura					
D	Clear	Anti-Scratch	Black	SW111	**5RXW5**
	Amber		Black	SW112	**5RXW8**
	Amber	Scratch-Resistant	Black	SW114	**5RXW9**
	Gray	Anti-Scratch	Black	SW116	**5RXX1**
	Blue Mirror	Scratch-Resistant	Black	SW118	**5RXX4**
	Red Mirror		Black	SW119	**5RXX5**
	Light Blue Precision Red Mirror		Black	SWAP119	**5RXY0**
	Laser Eyewear		Black	SW11-IR3	**5RXX6**
	Laser Eyewear		Black	SW11-IR5	**5RXX7**
Dakura with Vapor Shield Military-Grade Antifog Lens Technology					
D	Clear	Antifog, Anti-Scratch, Anti-Static	Black	SW111VS	**38Y431**
	Gray		Black	SW116VS	**38Y432**
Dakura with Gasket and Vapor Shield Military-Grade Antifog Lens Technology					
D	Clear	Antifog, Anti-Scratch, Anti-Static	Black	GSW111VS	**25AX53**
	Gray		Black	GSW116VS	**25AX54**
Kazbek					
E	Gray	Scratch-Resistant	Silver	SK116	**5RXV6**
	Gray	Anti-Scratch	Black	SK136	**460X48**
	Blue Mirror		Silver	SK118	**5RXV8**
Kazbek XL (Wide Fit)					
E	Clear	Anti-Scratch	Black	SK-XL111	**5RXW1**
	Gray Mirror	Scratch-Resistant	Black	SK-XL117	**5RXW3**
	Gray	Anti-Scratch	Black	SK-XL116	**5RXW2**
Kazbek with Multi-Fit and Vapor Shield Military-Grade Antifog Lens Technology					
E	Clear	Anti-Scratch	Black	SK111-SP	**49WJ40** *
	Gray	Antifog, Scratch-Resistant	Black	SK116-SP	**49WJ41** *
Reclus					
F	Gray Mirror	Anti-Scratch	Black	SR117	**4NYA1**
	Amber Mirror		Black	SR115	**4NXZ8**
	Blue Mirror		Black	SR118	**4NYA2**
	Gray		Black	SR116	**4NXZ9**
	Gray	Antireflective, Scratch-Resistant	Black	SR111AR	**4NXZ7**
	Gray	Scratch-Resistant	Camouflage	SR116CF	**460X44**
	Gray		Black	SR136	**460X50**
Reclus with Vapor Shield Antifog Technology					
F	Clear	Antifog, Anti-Scratch, Anti-Static	Black	SR111VS	**49WJ42**
	Gray	Antifog, Scratch-Resistant	Black	SR116VS	**49WJ43**

** Includes removable temple arms and interchangeable strap.*

D4793

J5470

D4791

J5449

J5471

D7967

Condor

Reader Safety Glasses

- J5449 meets ANSI Z87.1-2015; all others meet ANSI Z87.1-2010
- 99.9% UV protection

Built-in magnification helps you read without giving up protection.

Condor V—Frameless wraparound bifocals have gel nose pad and adjustable spatula temples.

SL-A—Frameless wraparound design with non-adjustable temples.

Wasko—Bifocals feature frameless wraparound design with soft rubber temple tips.

Agitator—Half-frame style with straight-back flexible temples, built-in rubber nosepiece, and rubber temple tips. A lanyard cord is included.

ET-93—Wraparound half-frame design with adjustable temple.

Nome—Half-frame wraparound bifocals have spatula temples.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
Condor V				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Anti-Scratch	Clear	**D4793**
SL-A				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Anti-Fog, Anti-Scratch	Clear	**J5470**
Wasko				
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Clear	Anti-Scratch	Clear	**D4791**
+1.00, +1.25, +1.50, +2.00, +2.25, +2.50	Gray	Anti-Scratch	Gray	**D4792**
Half-Frame				
Agitator				
+2.50	Clear	Anti-Scratch	Black	**J5449**
ET-93				
+1.50, +2.00, +2.50	Clear	Anti-Fog	Black	**J5471**
Nome				
+1.50, +2.00, +2.50	Clear	Anti-Scratch	Black	**D7967**

D7977

D7978

Reader Safety Glasses

MCR SAFETY

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Bearkat—Single lens design with integral side shields for unobstructed views. Flexible temples with non-slip temple sleeves that are notched on the end to accept a clip-on breakaway cord.

Klondike—Adjustable, 5-position ratchet action spatula temple for a more comfortable fit.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
Bearkat				
+1.00, +1.50, +2.00, +2.50	Clear	Anti-Scratch	Gray	**D7976**
+1.00, +1.50, +2.00, +2.50	Gray	Anti-Scratch	Gray	**D7977**
Half-Frame				
Klondike				
+1.00, +1.50, +2.00, +2.50	Clear	Anti-Scratch	Black	**D7978**

D7982

D7984

Kimberly-Clark PROFESSIONAL

Safety Reader Safety Glasses

- Meet ANSI Z87.1+2010
- 99.9% UV protection

V60 Nemesis Rx—Stylish nylon-framed eyewear has integrated diopters for vision assistance. With neck cord.

- D7982 meets CSA Z94.3

V60 30-06 Rx Readers—Comfortable nylon frame and self-adjusting rubber nose pad. Dual reader D7984 provides magnification for looking up and down.

▶CHOOSE: Diopter	▶CHOOSE: Lens Color	Lens Coating	Frame Color	Item No.
V60 Nemesis Rx				
+1.50, +2.00, +2.50, +3.00, +1.00	Clear	Anti-Scratch	Black	**D7982**
+1.50, +2.00, +2.50	Gray	Anti-Scratch	Black	**D7983**
V60 30-06 Rx				
+1.50, +2.00, +2.50, +1.00, +3.00	Clear, Brown, Amber, IRUV Shade 5	Anti-Scratch	Black	**H6198**
V60 30-06 Rx Dual Readers (Top and Bottom)				
+1.50, +2.00, +2.50	Clear	Anti-Scratch	Black	**D7984**

D7993

Honeywell UVEX

A900 Reader Safety Glasses

- Meet ANSI Z87.1-2003
- 99.9% UV protection

Eyewear offers stylish protection with distortion-free vision by precision placed magnification inserts. Soft, padded tips provide less temple fatigue, and the soft, nonslip nosebridge reduces slippage.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.50, +2.00, +2.50	Clear	Anti-Scratch	Black	**D7993**
+1.50, +2.00, +2.50	Gray	Anti-Scratch	Black	**D7994**

Honeywell UVEX

Genesis Reader Safety Glasses

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Eyewear features soft, flexible nasal fingers that conform to the face and minimize slippage, plus padded temple tips and cushioned brow bar. With adjustable temple length and ratcheting lens inclination adjustment.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.00, +1.50, +2.00, +2.50, +3.00	Clear	Anti-Scratch	Black	**D7968**

G5271

ELVEX DELTAPLUS PARTNER

Go-Specs Reader Safety Glasses

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Readers have angle-adjustable temples for a comfortable fit. Flexible foam lining helps protect against dust.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
+1.5, +2.0, +2.5	Clear	Antifog	Black	**G5271**
	Gray	Antifog	Black	**G5272**

4UCG7

D5296

Honeywell UVEX

Sealed and Reader Safety Glasses

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3
- 99.9% UV protection

Contemporary design can be worn with detachable temples or with an adjustable headband for all-day comfort. Soft, flexible nasal pads and face cushioning for excellent fit. Suited for dirty, high-particulate work environments such as those where grinding, chipping, shaving and sanding occur. The hydrophilic/hydrophobic HydroShield antifog coating technology on select items offers 90x longer-lasting fog-free performance than most other antifog products. D5296 offers increased magnification for reading, inspection and other fine-detail work.

Lens Color	Lens Coating	Frame Color	Mfr. Model	Item No.
Seismic Sealed Safety Glasses				
Clear	Antifog	Black	S0600X	**4UCG8**
Clear		Blue	S0620X	**4UCH5**
Clear	Antifog, Anti-Scratch	Black	S0600	**4UCG7**
Clear		Blue	S0620	**4UCH4**
Clear		Black	S0600D	**4UCG9**
Clear		Black	S0600HS	**401Y47**
Clear		Blue	S0620HS	**401Y52**
Amber		Black	S0602HS	**401Y49**
Brown		Black	S0601HS	**401Y48**
SCT Gray	Antifog	Black	S0604X	**4UCH3**
SCT Gray		Blue	S0624X	**4UCH7**
SCT Gray	Antifog, Hydrophilic, Hydrophobic, Scratch-Resistant	Black	S0605HS	**401Y50**
SCT Gray		Black	S0609HS	**401Y51**

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Seismic Sealed Diopter Safety Readers				
+1.50, +2.00, +2.50	Clear	Antifog	Black	**D5296**

EDGE SAFETY EYEWEAR

Reader Safety Glasses

38Y434

- Meet ANSI Z87.1-2015
- Meet MCEPS GL-PD 10-12
- 99.9% UV protection

Safety eye protection has built-in magnifiers to boost clarity of vision for reading. Attractive, sleek wraparound frame helps eliminate side shield distortion. Durable, lightweight nylon temples offer a comfortable and secure fit.

Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Zorge with Polarized Lens				
+2.00	Gray	Anti-Scratch, Polarized	Black	**12A781**
Zorge				
+1.50	Clear	Anti-Scratch	Black	**38Y433**
+2.00	Clear	Anti-Scratch	Black	**38Y434**
+2.50	Clear	Anti-Scratch	Black	**38Y435**

J5912

G6583

J5923

PYRAMEX

Reader Safety Glasses

- 99% UVA/B/C protection

ZTEK

- Meet ANSI Z87.1

Polycarbonate wrap-around lens provides panoramic view. Integrated nosepiece and soft, nonslip rubber temple tips give a secure, comfortable fit. Good for use in outdoor environments.

VENTURE II

- Meet ANSI Z87.1-2003
- Meet CAN/CSA Z94.3-07

Curved polycarbonate lens provides additional side protection. Temples can adjust to four different lengths. Rubber nosepiece holds glasses securely in place without slipping. Use for outdoor wear.

EMERGE

- Meet ANSI Z87.1-2010

Nylon frames with dual polycarbonate lens design provides full eye protection. Soft nosepiece for comfort-able extended wear. Use for indoor applications that require impact protection.

▶CHOOSE: Diopter	Lens Color	Lens Coating	▶CHOOSE: Frame Color	Item No.
Frameless				
Ztek				
+1.50, +2.00, +2.50	Clear	Anti-Scratch	Clear	**J5912**
Half-Frame				
Venture II				
+1.00, +1.50, +2.00, +2.50, +3.00	Clear	Anti-Scratch	Black	**G6582**
+1.50, +2.00, +2.50, +3.00	Gray	Anti-Scratch	Black	**G6583**
+1.50, +2.00, +2.50	Mirror	Anti-Scratch	Black	**G6584**
Full-Frame				
EMERGE				
+1.50, +2.00	Clear	Anti-Scratch	Black, Gray	**J5923**

J5337

D7973

D7986

D7974

3M

Reader Safety Glasses

- Meet ANSI Z87.1-2010
- Meet CSA Z94.3-2007, except J5337 and J6071
- 99.9% UV protection

SECUREFIT

Lightweight bifocals' temples auto-adjust with 3M Pressure Diffusion Temple Technology for a secure, comfortable fit.

BX

Multiple diopter strengths for reading, inspection, and detail work. Adjustable-length, contoured soft-tip temples; soft nosebridge; and 3 adjustable lens angles provide comfort without distorting vision.

NUVO

1-pc. lens with protective brow bar. Adjustable-length temples with soft temple tips and soft nosebridge.

▶CHOOSE: Diopter	▶CHOOSE: Lens Color	Lens Coating	Frame Color	Item No.
Frameless				
SecureFit				
+1.50, +2.00, +2.50	Clear	Antifog	Clear	**J5337**
Half-Frame				
SecureFit				
+1.50, +2.00, +2.50	Clear, Gray	Antifog	Gray	**J6071**
BX				
+1.50, +2.00, +2.50	Clear	Antifog	Black; Gray	**D7972**
+1.50, +2.00, +2.50	Gray	Antifog	Black; Gray	**D7973**
BX Dual Magnification (Top and Bottom)				
+2.00, +2.50	Clear	Antifog	Black; Gray	**D7986**
Full-Frame				
Nuvo				
+1.50, +2.00, +2.50	Clear	Antifog	Gray	**D7974**
+1.50, +2.00	Gray	Antifog	Gray	**D7038**

DEWALT

Reader Safety Glasses

- Meet ANSI Z87.1
- 99.9% UVA/UVB protection

Magnification diopter is molded directly into the lens. Polycarbonate lens is impact resistant and distortion-free. Handgrip pattern on temple is ergonomically positioned for secure grip. Soft, rubber nonslip nosepiece and cushioned temple pads provide long-wearing comfort.

▶CHOOSE: Diopter	Lens Color	Lens Coating	Frame Color	Item No.
Half-Frame				
Reinforcer RX™				
+1.00, +2.50, +3.00	Clear	Anti-Scratch	Black	**G1967**

bollé SAFETY

45NA43

Iri-s Series Reader Safety Glasses

- Meet ANSI Z87.1-2010
- 99.99% UV protection
- Antifog, scratch-resistant lens coating

Engineered to adapt to any face. B-Flex nose bridge is fully adjustable for height, depth, and width. Pivoting ergonomic temples let you adjust the enveloping frame to embrace the specific face shape. Platinum coating. Each includes an adjustable cord and microfiber cleaning pouch.

Lens Color	Frame Color	Diopter Strength	Mfr. Model	Item No.
Clear	Clear	+1.50	40187	**45NA43**
Clear	Clear	+2.00	40188	**45NA44**
Clear	Clear	+2.50	40189	**45NA45**
Clear	Clear	+3.00	40190	**45NA46**

5AL29

3BE76
(Eyewear Not Included)

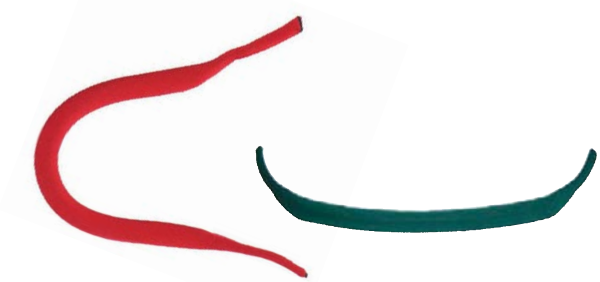
Condor

Removable Shields

- 99.9% UV protection

Sideshields help protect your eyes from flying debris. Just slip on to most plano-style protective eyewear; clear color.

Description	Material	Item No.	Pairs Per Pkg.
Slip-On Sideshields	Plastic	**5AL29**	10
Conforming Slip-On Sideshields	Plastic	**3BE76**	1



Eyewear Retainers

Fit most brands of protective eyewear.

Description	L	▶CHOOSE: Color	Item No.
Polyester/Neoprene Foam	15 ⅛ in	Red, Green, Orange, Yellow, White	**D2417**

3PTT2

29PK40

26H102

2YAX9

26G920

Smith&Wesson

NITE IZE

MCR SAFETY

26G949

Protective Eyewear Cases

Protect eyewear when not in use.

Material	Closure	Dim.	Brand	Item No.
Acrylic	Hook-and-Loop	7¼ in L x 4¼ in W	Smith & Wesson	**3PTT2**
Foam	Zipper	7⅛ in L x 3½ in W x 2-8/9 in D	Nite Ize	**29PK40**
Nylon	Hook-and-Loop	7¾ in L x 2½ in H x 2¼ in W	Mcr Safety	**26H102**
Nylon	Zipper	7⅜ in H x 3⅞ in W x 3⅛ in D	—	**2YAX9**
Vinyl	Drawstring	7 in L x 4 in H x ¼ in W	Mcr Safety	**26G920**
Vinyl	Hook-and-Loop	8 in L x 4¾ in H x ¼ in W	Mcr Safety	**26G949**

4GMR6
(Contents not included.)

23Z418

3TCA5

4GMR5
(Contents not included.)

4GMR7
(Contents not included.)

6GLD0
(Contents not included.)

Safety Glasses/PPE Dispensers

Dispensers accommodate packaged or nonpackaged protective eyewear and other PPE equipment. Wall mount or countertop use. Mounting hardware not included.

Safety Glasses Dispensing Trays—Double-hinged top lid provides easy access and seals out dust. 4GMR6 and 23Z418 have a foam bottom.

Safety Glasses Stack-Style Dispensers—All have an open top for quick filling and a lower flip-up dispensing door in front.

Safety Glasses Case with Door—Flip top hinged lid for filling helps keep dust out. Individual compartments store eyewear.

PPE Wire Dispensing Rack—Wire basket lets workers easily take and return safety glasses and other protective devices. Includes 3 labels: "Safety Glasses," "Hearing Protection," and blank label.

Holds	Material	H	W	D	Item No.
Safety Glasses Dispensing Trays					
Up to 8 Pairs	Polyethylene	3 ¼ in	9 in	6 ¾ in	**3TCA7**
Up to 6 Pairs	Polyethylene	4 ⅝ in	9 in	6 ¾ in	**4GMR6**
Up to 6 Pairs	Acrylic	5 ⅞ in	9 in	6 in	**23Z418**
Up to 8 Pairs	Polyethylene	6 ¼ in	12 in	9 in	**3TCA8**
Up to 25 Pairs	Polyethylene	12 ½ in	18 in	10 ½ in	**3TCA6**
Up to 35 Pairs	Acrylic	12 ⅞ in	18 in	8 in	**23Z419**
Safety Glasses Stack Style Dispensers					
Up to 20 Pairs	Acrylic	18 in	8 in	5 ½ in	**23Z420**
Up to 20 Pairs	Polyethylene	15 ¾ in	8 in	4 in	**3TCA5**
Up to 25 Pairs	Acrylic	18 in	8 in	5 ½ in	**23Z421**
Up to 25 Pairs	Polyethylene	15 ¾ in	8 in	4 in	**4GMR5**
Safety Glasses Case with Door					
Up to 12 Pairs	Polyethylene	12 in	14 in	7 ¾ in	**4GMR7**
Up to 20 Pairs	Polyethylene	12 in	15 in	6 ¾ in	**4GMR8**
PPE Wire Dispensing Rack					
Safety Glasses, Goggles, Earplugs, Ear Muffs	Steel	4 ½ in	13 in	9 in	**6GLD0**

55ET78

4AG49

41N473

328UR1

3NRJ9

Lens Cleaning Wipes

Lens cleaning wipes are safe for use on safety glasses and goggles, face shields, and personal eyewear.

Wipe Count	Wipe Dispensing Type	Wipe Size	Brand	Item No.
Dry				
12	Loose	6 in (W) x 6 in (L)	Skullerz By Ergodyne	**42DA84**
180	Loose	4 ½ in (W) x 5 in (L)	SP Scienceware	**21TP45**
280	Loose	5 in (W) x 8 in (L)	Bausch & Lomb	**4T934**
300	Loose	7 ⅞ in (W) x 4 ⅞ in (L)	HexArmor	**619U98**
500	Loose	4 ¾ in (W) x 7 ⅞ in (L)	Honeywell Uvex	**55ET78**
600	Loose	5 in (W) x 7 ½ in (L)	Vision Aid	**199TV8**
760	Loose	4 ¾ in (W) x 6 ½ in (L)	Bausch & Lomb	**4AG49**
1,000	Loose	4 in (W) x 6 in (L)	Berkshire	**3LDL9**
1,000	Loose	9 in (W) x 9 in (L)	Berkshire	**3LDN1**
Pre-Moistened				
25	Individually Wrapped	4 in (W) x 8 ½ in (L)	Bausch & Lomb	**1AHE8**
30	Individually Wrapped	2 in (W) x 4 in (L)	Bouton Optical	**41K549**
100	Individually Wrapped	2 in (W) x 4 in (L)	Pip	**41N473**
100	Individually Wrapped	2 ⅜ in (W) x 2 in (L)	PhysiciansCare	**49H381**
100	Individually Wrapped	3 in (W) x 5 in (L)	Motosolutions	**328UR1**
100	Individually Wrapped	3 in (W) x 5 in (L)	Motosolutions	**328UR2**
100	Individually Wrapped	4 in (W) x 6 in (L)	Crews	**43PF89**
100	Individually Wrapped	5 in (W) x 8 in (L)	Bausch & Lomb	**2AR69**
100	Individually Wrapped	5 in (W) x 8 in (L)	Bausch & Lomb	**3NRJ9**
100	Individually Wrapped	5 in (W) x 7 in (L)	Condor	**44X059**
100	Individually Wrapped	5 ¼ in (W) x 2 ¼ in (L)	Honeywell Uvex	**55GZ13**
100	Individually Wrapped	5 ¼ in (W) x 2 ¼ in (L)	Honeywell Uvex	**55GZ17**
100	Individually Wrapped	5 in (W) x 8 in (L)	Skilcraft	**55MP89**
100	Individually Wrapped	5 in (W) x 8 in (L)	Magic Safety Products	**619K09**
100	Individually Wrapped	7 ⅞ in (W) x 4 ⅞ in (L)	HexArmor	**619U97**
100	Individually Wrapped	8 in (W) x 5 in (L)	Pyramex	**567U90**
110	Individually Wrapped	5 in (W) x 8 in (L)	Sellstrom	**65TW66**
1,000	Individually Wrapped	3 in (W) x 8 in (L)	Kleenguard	**42EP96**

5DVG2

46C922

5BB83

55CR73

Lens Cleaning and Coating Solutions

Lens solutions keep lenses clean and refresh coatings to keep vision clear.

Lens Treatment Properties	Solution Type	Bottle Size	Incl. Pump	Brand	Item No.	Pkg. Qty.
Anti-Fog	Non-Silicone	3 fl oz	Not Included	Honeywell Uvex	**55JK92**	6
Anti-Fog	Non-Silicone	4 fl oz	Not Included	MSA	**5DVG2**	1
Anti-Fog	Non-Silicone	8 fl oz	Included	HexArmor	**619U95**	1
Anti-Fog	Silicone	12 fl oz	Included	Bausch & Lomb	**4FE64**	1
Anti-Fog, Anti-Static	Non-Silicone	2 fl oz	Not Included	SP Scienceware	**46C922**	2
Anti-Fog, Anti-Static	Non-Silicone	16 fl oz	Not Included	Bausch & Lomb	**5BB82**	1
Anti-Fog, Anti-Static	Non-Silicone	16 fl oz	Included	Bausch & Lomb	**5BB83**	1
Anti-Fog, Anti-Static	Non-Silicone	128 fl oz	Not Included	Bausch & Lomb	**5BB84**	1
Anti-Fog, Anti-Static	Silicone	16 fl oz	Not Included	Bausch & Lomb	**1AV39**	1
Anti-Fog, Anti-Static	Silicone	16 fl oz	Included	Bausch & Lomb	**4T932**	1
Anti-Fog, Anti-Static	Silicone	128 fl oz	Not Included	Bausch & Lomb	**4T933**	1
Anti-Static	Non-Silicone	128 fl oz	Not Included	Honeywell Uvex	**55GZ14**	1
Anti-Static, Scratch-Resistant	Water Soluble	16 fl oz	Included	Honeywell Uvex	**55CR73**	1

41N472

44X057

55GZ15

5BB80

619J49

Lens Cleaner Dispenser Stations

Dispenser stations hold lens cleaning wipes and lens cleaning and coating solutions. They are often located throughout a facility so workers have convenient access to supplies to keep eyewear clean and vision clear. Corrugated stations are countertop- or wall-mountable.

Station Material	Station Dimensions	Wipe Count	Solution Type	Bottle Size	Brand	Item No.	Pkg. Qty.
Corrugated Cardboard	4 in H x 5 in W x 6 in D	600	Non-Silicone	8 fl oz	Pip	**41N472**	8
Corrugated Cardboard	6 ¾ in H x 5 ⅝ in W x 3 ⅛ in D	600	Non-Silicone	8 fl oz	Condor	**44X058**	1
Corrugated Cardboard	9 in H x 10 ½ in W x 3 ½ in D	1,200	Non-Silicone	16 fl oz	Condor	**44X057**	1
Corrugated Cardboard	9 ¼ in H x 16 in W x 3 ¼ in D	1,500	Non-Silicone	16 fl oz	Honeywell Uvex	**55GZ15**	1
Corrugated Cardboard	10 in H x 7 ½ in W x 5 ¼ in D	1,520	Non-Silicone	16 fl oz	Bausch & Lomb	**2LBC7**	1
Corrugated Cardboard	10 in H x 7 ½ in W x 5 ¼ in D	1,520	Silicone	12 fl oz	Bausch & Lomb	**4FE63**	1
Corrugated Cardboard	10 in H x 7 ½ in W x 5 ¼ in D	1,520	Silicone	16 fl oz	Bausch & Lomb	**4T937**	1
Metal	17 ½ in H x 8 ¾ in W x 3 ½ in D	1,520	Silicone	16 fl oz	Bausch & Lomb	**5BB80**	1
Metal	17 ½ in H x 8 ¾ in W x 3 ½ in D	1,520	Non-Silicone	16 fl oz	Bausch & Lomb	**5BB81**	1
Plastic	11 ½ in H x 5 ⅜ in W x 3 in D	760	Silicone	8 fl oz	Bausch & Lomb	**2LBC6**	1
Plastic	11 ½ in H x 5 ⅜ in W x 3 in D	760	Non-Silicone	8 fl oz	Bausch & Lomb	**6AG66**	1
Plastic	12 in H x 17 ½ in W x 3 ⅛ in D	300	Non-Silicone	8 fl oz	HexArmor	**619J49**	1
Plastic	14 in H x 30 in W x 4 in D	2,000	Non-Silicone	16 fl oz	Honeywell Uvex	**55GZ16**	1

Condor

Goggles

- Meet ANSI Z87.1-2010
- 99.9% UV protection

Offered with direct or indirect venting. Direct-vented goggles let air flow into the goggle from the work environment. Choose indirect-vented to limit or prevent liquid splash passing into the goggle.

A. Condor—Designed for general lab and shop applications. Can be worn with most half-mask respirators. 1VT66 to 1VT68 have perforated sides.

B. Platoon OTG (Over-the-Glass)—Soft vinyl body fits over most prescription eyewear. Translucent light-green frame reduces glare and side reflection. 4VCF4 and 4VCF5 have perforated sides.

C. Max Barron—Foam-lined lenses with adjustable head strap. Black nylon frame.

A. 1VT70

B. 4VCF4

C. 1FYZ3

Key	Venting	Lens Color	Lens Coating	Frame Color	Frame Design	Size	Strap Material	Item No.
Condor								
A	Direct	Clear	Uncoated	Clear	Traditional	Universal	Elastic	**1VT67**
	Direct	Clear	Uncoated		Traditional	Narrow	Elastic	**1VT66** *
	Direct	Clear	Antifog		Traditional	Universal	Elastic	**1VT68**
	Indirect	Clear	Uncoated		Traditional	Universal	Elastic	**1VT69**
	Indirect	Clear	Antifog		Traditional	Universal	Elastic	**1VT70**
Platoon OTG (Over-the-Glass)								
B	Direct	Clear	Uncoated	Green	Traditional	Universal	Elastic	**4VCF4**
	Direct	Clear	Anti-Scratch		Traditional	Universal	Elastic	**4VCF5**
	Indirect	Clear	Uncoated		Traditional	Universal	Elastic	**4VCF6**
	Indirect	Clear	Antifog		Traditional	Universal	Elastic	**4VCF7**
Max Barron								
C	Direct	Amber	Anti-Scratch	Black	Aviator	Universal	Elastic	**4VCF2**
	Direct	Clear	Antifog		Aviator	Universal	Elastic	**4VCF3**
	Indirect	Clear	Anti-Scratch		Aviator	Universal	Elastic	**1FYZ3**
	Indirect	Gray	Anti-Scratch		Aviator	Universal	Elastic	**1FYZ4**

** Small size.*

Goggles

Honeywell UVEX

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3 (except 2CVG2, 2CVG3, and 6T363)
- 99.9% UV protection

Select goggles feature hydrophilic/hydrophobic HydroShield antifog coating technology, which offers 90x longer-lasting fog-free performance than most other antifog products.

A. Classic OTG (Over-the-Glass)—Soft, flexible PVC. Durable construction. Fit over most prescription eyewear.

B. Strategy OTG—Lightweight TPE body with snug fit. Fit over most eyewear to help provide impact protection.

C. Futura OTG—Offer distortion-free 180° field of vision. Fit over most prescription eyewear.

D. Flex Seal OTG—Silicone construction with soft body seal withstands extreme temperatures. Pivoting clips allow positioning on a hard hat or above the ears. Low-profile design fits over most prescription eyewear.

E. Stealth—Soft, flexible elastomer seal conforms to facial contours. Quick-adjust headband clips. Prescription insert holder sold separately.

F. Stealth Reader Goggles—Low-profile, wraparound design with pivoting headband clip and adjustable-slide neoprene headband.

G. Stealth OTG—Pivoting headband clip and wide adjustable-slide headband allow goggles to be used comfortably with hard hats and over most prescription eyewear.

H. Carbonvision—Wide-vision goggles with a soft, flexible body and frame conform to your face for excellent fit.

A. 6T362

B. 2CVG3

C. 6T363

D. 4FE58

E. 2CVG5

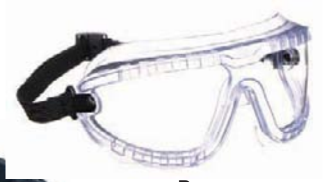
F. 5DPT3

G. 4UCN6

H. 24C251

Key	Venting	Lens Color	Lens Coating	Frame Color	Frame Design	Strap Material	Mfr. Model	Item No.
Classic OTG (Over-the-Glass)								
A	Indirect	Clear	Anti-Fog, Anti-Scratch	Clear	OTG	Neoprene	S350	**6T362**
Strategy OTG								
B	Direct	Clear	Anti-Fog	Gray	OTG	Fabric	S3800	**2CVG2**
	Indirect	Clear	Anti-Fog	Gray	OTG	Neoprene	S3810	**2CVG3**
Futura OTG								
C	Indirect	Clear	Anti-Fog, Anti-Scratch	Clear	OTG	Neoprene	S345C	**6T363**
Flex Seal OTG								
D	Indirect	Clear	Anti-Fog	Navy	OTG	Neoprene	S3400X	**4FE58**
Flex Seal with HydroShield Lens Coating								
D	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	Goggle	Neoprene	S3400HS	**54EM94**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	Goggle	Fabric	S3405HS	**54EM95**
Stealth								
E	Indirect	Clear	Anti-Fog, Anti-Scratch	Gray	Wraparound	Neoprene, Rubber	S3960HS	**38TJ88**
	Indirect	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Gray	Wraparound	Neoprene, Rubber	S3961HS	**38TJ89**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Gray	Wraparound	Neoprene	S3960C	**3ZL19**
	Indirect	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Gray/Orange	Wraparound	Neoprene	S39630C	**2CVG5**
	Indirect	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Gray	Wraparound	Neoprene	S3961C	**3ZL20**
	Indirect	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Gray/Orange	Wraparound	Fabric	S39630CI	**2CVG6**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Gray	Wraparound	Neoprene	S3960D	**2NYJ8**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Gray	Goggle	Fabric	S3960HSI	**55TA85**
	Indirect	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Teal	Goggle	Neoprene	S39610HS	**55TA86**
	Indirect	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Teal	Goggle	Neoprene	S39611HS	**55TA87**
	Indirect	Amber	Anti-Fog, Anti-Scratch, Anti-Static	Gray	Goggle	Neoprene	S3962HS	**55TA88**
	Indirect	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Orange	Goggle	Neoprene	S39630HS	**55TA89**
Stealth Replacement Lenses								
E	—	Clear	Anti-Fog, Anti-Scratch	—	—	—	S700HS	**38TJ90**
	—	Gray	Anti-Fog, Anti-Scratch	—	—	—	S701HS	**38TJ91**
	—	Amber	Anti-Fog, Anti-Scratch	—	—	—	S702HS	**55TA90**
Stealth Prescription Insert Holder								
E	—	—	—	Silver	—	—	S3959	**2CVG4**
Stealth Reader Goggles								
F	Indirect	Clear with +2.0 Diopter	Anti-Fog, Anti-Scratch	Blue	Wraparound	Neoprene	S3992X	**5DPT3**
Stealth OTG								
G	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	OTG	Neoprene	S3970D	**4UCN6**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	OTG	Fabric	S3970DF	**4UCN7**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	OTG	Neoprene	S3970HS	**54EM89**
	Indirect	Clear	Anti-Fog, Anti-Scratch	Navy	Goggle	Fabric	S3970HSF	**54EM90**
	Indirect	Gray	Anti-Fog, Anti-Scratch	Navy	Goggle	Neoprene	S3971HS	**54EM91**
	Indirect	Amber	Anti-Fog, Anti-Scratch	Navy	Goggle	Neoprene	S3972HS	**54EM92**
Carbonvision								
H	Non-Vented	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Black	Wraparound	Neoprene	S1650D	**24C250**
	Non-Vented	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Black	Wraparound	Neoprene	S1651D	**24C251**
	Non-Vented	Clear	Anti-Fog, Anti-Scratch, Anti-Static	Black	Wraparound	Fabric	S1650DF	**24C252**
	Non-Vented	Gray	Anti-Fog, Anti-Scratch, Anti-Static	Black	Wraparound	Fabric	S1651DF	**24C253**

A.
4YZ54



B.
3WLX6

C.
48TK90

D.
475M57

3M

Goggles

- Meet ANSI Z87.1-2010
- 99.9% UV protection

A. Centurion OTG (Over-the-Glass)—Wraparound wide-angle visibility; designed to fit over most prescription eyewear.
- Meet CSA Z94.3-2007

B. Lexa Splash GoggleGear—Contoured, low-profile design.
- Meet CSA Z94.3-2007

C. and D. GoggleGear 500 and 2800 Series—Low-profile splash goggles feature long-lasting 3M Scotchgard antifog coating that helps increase eyewear performance and visibility in wet and steamy settings. With adjustable strap for comfortable fit.

Key	Lens Color	Lens Coating	Frame Color	Size	Venting	Strap Material	Mfr. Model	Item No.
Centurion OTG (Over-the-Glass)								
A	Clear	Uncoated	Clear	Universal	Direct	Elastic	40300	**4YZ54**
	Clear	Antifog	Clear	Universal	Direct	Elastic	40301	**4YZ55**
	Clear		Clear	Universal	Indirect	Neoprene	40305	**4YZ57**
	Clear	Uncoated	Clear	Universal	Indirect	Neoprene	40304	**3RYD8**
Lexa Splash GoggleGear								
B	Clear	Antifog, Scratch-Resistant	Clear	Universal	Indirect	Elastic	16644	**3WLX6**
GoggleGear 500								
C	Clear	Antifog	Gray	Universal	Indirect	Elastic	GG501SGAF	**48TK90**
GoggleGear 2800								
D	Clear	Antifog, Anti-Scratch	Gray	Universal	Indirect	Elastic	GG2891-SGAF	**475M55**
	Clear	Antifog	Gray	Universal	Non-Vented	Elastic	GG2891S-SGAF	**475M56**
	Gray		Black	Universal	Indirect	Elastic	GG2892-SGAF	**475M57**

3RYH4

DEWALT

Concealer Goggles

- Meet ANSI Z87.1-2015
- 99.9% UV protection

Dual-injected rubber goggles have a soft, comfortable seal for extended wear. A built-in ventilation channel provides extra fog control and ventilation.

Lens Color	Lens Coating	Frame Color	Venting	Strap Material	Mfr. Model	Item No.
Clear	Antifog	Black	Indirect	Elastic	DPG82-11	**3RYH4**
Gray					DPG82-21	**3RYH5**

4FE56

V-Maxx OTG (Over-the-Glass) Goggles

Honeywell UVEX

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3

Wraparound design fits over most prescription eyewear. Adjustable headband. Peel-off covers protect lenses to extend goggle life.

Lens Color	Lens Coating	Frame Color	Venting	Strap Material	Mfr. Model	Item No.
V-Maxx OTG (Over-the-Glass) Goggles						
Clear	Antifog	Clear	Direct	Elastic	11250800	**4FE56**
Lens Covers, Pkg. of 10						
—	—	—	—	—	11250860	**6WE81**

3NLW6

3RYG2

OTG (Over-the-Glass) Goggles

sellstrom. Product that works.

- Meet ANSI Z87.1-2015
- Meet CSA Z94.3; C-UL Listed
- 99.9% UV protection

Goggles fit comfortably over most prescription eyewear. An adjustable headband assures proper fit.

882 Series—PVC-frame goggles provide outstanding chemical splash protection.

Industrial Odyssey II—A soft, comfortable frame seals out liquids and dust without limiting peripheral vision. Sealed dual-pane lens.

Lens Color	Lens Coating	Frame Color	Venting	Strap Material	Mfr. Model	Item No.
882 Series						
Clear	Uncoated	Green	Indirect	Elastic	S88200	**4FPL6**
Clear	Antifog	Green	Indirect	Elastic	S88213	**3NLW6**
Industrial Odyssey II						
Clear	Antifog, Scratch-Resistant	Blue	Indirect	FR Cloth Strap	S80200	**3RYG2**

bollé SAFETY

Goggles

- Meet ANSI Z87.1-2010
- 99.99% UVA and UVB protection

20V815

49YV89

49YV90

Atom X90—Modular frame is compact, lightweight, and extremely comfortable. Over-the-glasses (OTG) dust goggles have a polycarbonate lens and a liquid overflow chute for enhanced protection. Large, adjustable elastic strap.
- Also meet CSA Z94.3-2007

Pilot—Coinjected frame with adjustable strap is designed for superior adaptability and comfort. OTG safety goggles offer excellent field of vision. 49YV90 CSP with Platinum technology is good for activities that alternate between high and low lighting and in extreme hot- or cold-temperature environments.

Lens Color	Lens Coating	Frame Color	Frame Material	Venting	Strap Material	Mfr. Model	Item No.
Atom X90							
Clear	Anti-Fog, Anti-Scratch	Blue	TPR	Direct	Elastic	40092	**20V815**
Pilot							
Clear	Anti-Fog, Anti-Scratch	Clear	Polycarbonate/TPR	Direct	Nylon	40274	**49YV89**
CSP	Anti-Fog, Scratch-Resistant	Gray		Direct	Nylon	40275	**49YV90**

Respiratory Filter and Gas/Chemical Cartridge Abbreviations

PARTICULATE FILTER TYPES

NIOSH-approved filters are rated as N95, R95, P95, N99, N100, or P100. The number 95, 99, or 100 indicates the filter efficiency percentage rate.

N Series—Used in environments free of oil aerosols.

R Series—Resistant to oil mist. Use is restricted to one 8-hr. work shift.

P Series—Oil-proof with time use restrictions specified by manufacturer.

GAS AND CHEMICAL CARTRIDGE ABBREVIATIONS

AG—Acid Gas
AM—Ammonia
CD—Chlorine Dioxide
CL—Chlorine
FM—Formaldehyde
HC—Hydrogen Chloride
HF—Hydrogen Fluoride
HS—Hydrogen Sulfide
MA—Methylamine
MV—Mercury Vapor
OZ—Ozone
OV—Organic Vapor
SD—Sulfur Dioxide

Dust Mask Dispenser

Keep masks clean. Hinged flip top lid. Countertop or wall-mountable; hardware not included.

Dim.	Item No.
12 ⅜ in H x 6 in W x 6 in D	**23Z425**

Nuisance Dust and Procedural Masks

- Not NIOSH approved
- Universal size

Designed to protect against nontoxic dust and irritants, these masks have elastic headstraps and a nose clip to hold them in place. Not for use with toxic mists and chemicals. 54TX79 and 54TX80 have a pouch-style design to ease breathing.

2KFY4

56JD44

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Nuisance Dust Masks	Condor	—	**2KFY4**	50
	Honeywell North	14110094CC	**4VT68**	50
Procedural Masks	Kimtech Pure	62484	**54TX79**	300
	Kimtech Pure	62465	**54TX80**	500
	—	56JD44	**56JD44**	50

N95 Disposable Particulate Respirators

- NIOSH approved
- Universal size

Economical, lightweight respirators are available with adjustable aluminum nose clip. Select models have an integrated nosefoam seal that conforms to the face. 22EL81 is FDA 510(k) approved for use in medical applications and meets CDC guidelines for TB exposure control.

22EL79

22EL78

22EL80

22EL81

22EL77

Respirator Shape	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
N95 Respirators without Exhalation Valve									
Molded	None	No	No	No	None	White	22EL79	**22EL79**	20
Molded	None	No	No	Yes	None	White	22EL78	**22EL78**	20
N95 Respirators with Exhalation Valve									
Molded	None	Yes	No	No	None	White	22EL80	**22EL80**	10
N95 Respirators without Exhalation Valve									
Molded	None	No	No	Yes	Closed Cell Compliant	White	22EL81	**22EL81**	20
N95 Respirators with Exhalation Valve									
Flat-Fold	None	Yes	No	Yes	Closed Cell Compliant	White	22EL77	**22EL77**	10

4VT70

4VT73

1AAK5

4RM12

Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Mask Headstrap Type	Color	Mfr. Model	Item No.	Pkg. Qty.
SAF-T-FIT® Plus												
N95	Molded	S	None	No	No	Yes	None	Dual, Adjustable	White	14110387	**4VT69**	20
N95	Molded	M	None	No	No	Yes	None	Dual, Adjustable	White	14110388	**4VT70**	20
N95	Molded	XL	None	No	No	Yes	None	Dual, Adjustable	White	14110389	**4VT71**	20
N95	Molded	S	None	No	No	Yes	Full	Dual, Adjustable	White	14110390	**4VT72**	20
N95	Molded	M	None	No	No	Yes	Full	Dual, Adjustable	White	14110391	**4VT73**	20
N95	Molded	XL	None	No	No	Yes	Full	Dual, Adjustable	White	14110392	**4VT74**	20
N95	Molded	S	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110393	**4VT75**	20
N95	Molded	M	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110394	**4VT76**	20
N95	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110395	**4VT77**	20
N95	Molded	M	OV	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110397	**4VT79**	10
N95	Molded	XL	OV	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110398	**4VT80**	10
N95	Molded	S	AG	Yes	No	Yes	None	Dual, Adjustable	Gray	14110399	**3NME5**	10
N95	Molded	M	AG	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110400	**4VT85**	10
N95	Molded	XL	AG	Yes	No	Yes	Full	Dual, Adjustable	Gray	14110401	**4VT86**	10
N99	Molded	S	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110402	**4VT81**	10
N99	Molded	M	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110403	**4VT82**	10
N99	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110404	**4VT83**	10
P95	Molded	M	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110428	**4VT87**	10
P95	Molded	XL	None	Yes	No	Yes	Full	Dual, Adjustable	White	14110429	**4VT88**	10
P100	Molded	S	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110439	**1AAK4**	1
P100	Molded	M	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110440	**1AAK5**	1
P100	Molded	XL	None	Yes	Yes	Yes	Full	Dual, Adjustable	White	14110441	**1AAK6**	1
Limited-Use Welding Respirator with Disposable Filter												
N99	Molded	M	None	Yes	Yes	Yes	Partial	Dual, Adjustable	White/Clear	7190N99	**4RM12**	1
Welding Respirator Replacement Filter												
—	—	—	—	—	—	—	—			719009N99	**4RM11**	2

Disposable Particulate Respirators

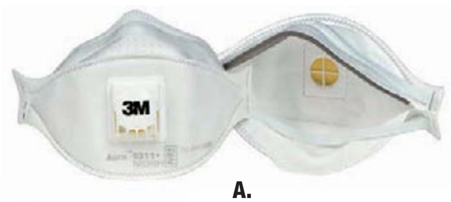
- NIOSH approved

SAF-T-FIT® Plus—Molded cup design offers low breathing resistance. Convenient suspension straps. Latex-free.

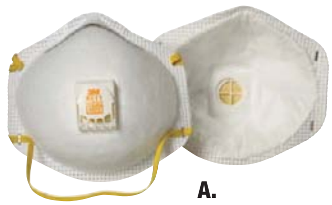
Limited-Use Welding Respirator with Disposable Filter—Low-profile half-mask design fits under welding helmets and faceshields. A proprietary coaxial valve system channels air to the wearer for easy breathing and maximum filtration use.

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

A.
3KP43



A.
21LP03



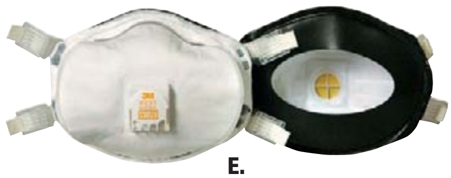
A.
4JF99

B.
4MH50

C.
4MH67

C.
4MH63

D.
4MH59



E.
4JG03

3M

Disposable Particulate Respirators

- NIOSH approved

Electrostatically charged microfibers are designed for ease of breathing. R and P series respirators may have additional time-use limitations. Refer to instructions for specific information.

A. GENERAL INDUSTRIAL

Provide protection against certain non-oil-based (N series respirators) or oil-based (R and P series respirators) particles.

B. HEALTHCARE/SURGICAL

- Meet CDC guidelines for tuberculosis exposure control
- FDA cleared for use as surgical masks

Reduce exposure to airborne particles generated by electrocautery, laser surgery, and other powered medical instruments. Also reduce the potential exposure of the wearer to blood and other body fluids. Fold-flat mask 49U069 has a 3-panel design to help reduce eyewear fogging. Chin tab provides easy adjustment and positioning.

C. WELDING

Feature adjustable straps (except 4MH67), Cool Flow™ exhalation valve, and cake-resistant filter material (except 4MH67) for comfort and durability.

OV/OZ—Feature a carbon layer that helps provide respiratory protection where metal fumes may be present including those with ozone and nuisance level organic vapors.

D. ODOR-REMOVING

AG—Suggested for protection against particles where nuisance-level (levels beneath OSHA PEL) acid gases may also be present such as primary aluminum smelting, chemical processing, glass etching, and paper processing.

OV—Use in foundries, undercoating, petroleum operations, and agriculture where exposures may include nuisance-level (levels beneath OSHA PEL) concentrations of organic vapors.

E. 100 LEVEL

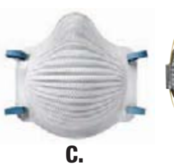
Use where certain OSHA substance-specific regulations require 100 level respirator for particle exposures to lead, cadmium, arsenic, or methylene-dianiline (MDA). Excludes asbestos.

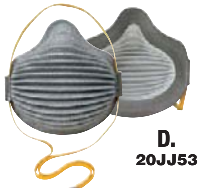
Key	Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
General Industrial												
A	N95	Molded	Universal	None	No	No	Yes	None	White	8200	**2KJJ5**	20
A	N95	Molded	Universal	None	No	No	Yes	None	White	8210	**3KP43**	20
A	N95	Molded	Universal	None	Yes	No	Yes	None	White	8210V	**14F203**	10
A	N95	Molded	S	None	No	Yes	Yes	None	White	8110S	**4MH52**	20
A	N95	Flat-Fold	M	None	Yes	Yes	Yes	None	White	9211+	**21LP03**	10
A	N95	Flat-Fold	M	None	No	No	Yes	None	White	9105	**6KXU0**	50
A	N95	Flat-Fold	S	None	No	No	Yes	None	White	9105S	**6KXU1**	50
A	N95	Molded	Universal	None	Yes	No	Yes	None	White	8511	**4JF99**	10
A	N95	Molded	M	None	Yes	No	Yes	Full	White	8211	**3FU83**	10
A	R95	Molded	M	None	No	No	Yes	None	White	8240	**4MH64**	20
A	P95	Molded	M	None	Yes	No	Yes	Full	White	8271	**4JG30**	10
Healthcare and Surgical												
B	N95	Flat-Fold	S	None	No	No	Yes	Full	White	1804S	**K2034**	50
B	N95	Molded	M	None	No	No	Yes	None	Green	1860	**4MH50**	20
B	N95	Molded	S	None	No	No	Yes	None	Green	1860S	**4MH51**	20
B	N95	Flat-Fold	M	None	No	Yes	Yes	None	White	1870+	**49U069**	20
Welding												
C	N95	Molded	M	None	Yes	No	Yes	None	White	8515	**4MH67**	10
C	N95	Molded	M	None	Yes	No	Yes	Full	White	8212	**4JG36**	10
C	N95	Molded	M	OV/OZ	Yes	No	Yes	Full	White	8214	**4MH63**	10
Odor-Removing												
D	R95	Molded	M	AG	No	Yes	Yes	None	Blue	8246	**4JG01**	20
D	P95	Molded	M	AG	Yes	No	Yes	None	White	8576	**4MH58**	10
D	R95	Molded	M	OV	No	No	Yes	None	Gray	8247	**4JG02**	20
D	P95	Molded	M	OV	Yes	No	Yes	None	White	8577	**4MH59**	10
100 Level												
E	N100	Molded	M	None	Yes	Yes	Yes	Full	White	8233	**4JG03**	1
E	P100	Molded	M	None	Yes	Yes	Yes	Full	White	8293	**4MH54**	1

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

A. 1DLL8

B. 3NML1


C. 16V847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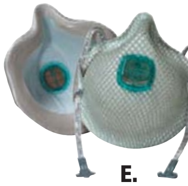
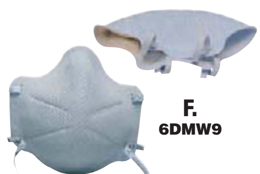

E. 3CDE4


F. 6DMW9

MOLDEX Ideas that wear well.

Disposable Particulate Respirators

- NIOSH approved

Dura-Mesh® shell resists collapse, even under hot and humid conditions. Contour-molded nosebridge has a foam cushion for an easy soft, comfortable seal without a metal nose band.

A. Standard 2-Strap—Elastic straps are attached securely so they don't break the seal.

1DLL7, 1DLN1, and 1DLP3 feature a low-profile design with a lower, wider nosebridge. FastFit® 6DMW8 offers flat-fold convenience with cup-shape comfort. Individually packaged for hygiene in a dispenser box.

B. Adjustable Cloth Straps—Tug-to-fit adjustable cloth straps provide speedy, comfortable fit. 3NML1 has a low-profile design to fit easily under welding hoods.

C. and D. AirWave®—FlexFit® design expands and contracts as you move and speak for all-day comfort. Wave design lets more air flow in and out for easier breathing. SmartStrap® models with adjustable soft cloth strap allows the respirator to hang loosely from the neck when not in use.

E. HandyStrap®—Cloth strap with buckle allows mask to hang around the wearer's neck, always ready for use.

F. Healthcare and Surgical Masks—Meet CDC guidelines for tuberculosis protection. 2 latex-free straps—on the 1500 series they are color-coded by size.

FastFit® 6DMW9 opens quickly and seals easily, and handily refolds to store in a scrubs pocket. Hygienic individual packaging in a quick-access dispenser box.

Key	Respirator Filter Class	Respirator Shape	Size	Nuisance Odor Removal	Exhalation Valve	Individually Packaged	Nose Clip	Face Seal	Color	Mfr. Model	Item No.	Pkg. Qty.
Standard 2-Strap												
A	N95	Molded	S	None	No	No	No	None	White	2201N95	**1DLL6**	20
A	N95	Molded	M	None	No	No	No	None	White	2200N95	**1DLL5**	20
A	N95	Molded	S	None	Yes	No	No	None	Blue	2301N95	**1DLL9**	10
A	N95	Molded	M	None	Yes	No	No	None	Blue	2300N95	**1DLL8**	10
A	N95	Molded	M	OV/OZ	Yes	No	No	None	Gray	2400N95	**1DLN2**	10
A	N95	Molded	M	AG	Yes	No	No	None	Blue	2500N95	**1DLN3**	10
A	N95	Flat-Fold	M	None	No	No	No	None	White	2112	**6DMW8**	20
A	N95	Molded	S	None	No	No	No	None	White	2207N95	**1DLL7**	20
A	N95	Molded	S	None	Yes	No	No	None	Blue	2307N95	**1DLN1**	10
A	N99	Molded	M	None	Yes	No	No	None	Gray	2310	**1DLP3**	10
Adjustable Cloth Straps												
B	N99	Molded	M	None	Yes	No	No	None	Gray	2315	**3NML1**	10
B	P100	Molded	M	None	Yes	No	No	Full	White	2360AP100	**6KXU6**	1
AirWave® Classic 2-Strap												
C	N95	Molded	S	None	No	No	No	None	White	4201	**16V848**	10
C	N95	Molded	M/L	None	No	No	No	None	White	4200	**16V847**	10
D	N95	Molded	S	None	No	No	No	None	Gray	4601	**40M365**	10
AirWave® with SmartStrap®												
D	N95	Molded	M/L	None	No	No	No	None	Gray	4600	**40M364**	10
D	N95	Molded	M	OV/OZ	No	No	No	Full	Gray	4800	**20JJ53**	8
D	P95	Molded	M	None	No	No	No	Full	White	4300P95	**35ZC16**	8
D	N100	Molded	M	None	Yes	No	No	Full	White	4700N100	**35ZC17**	5
HandyStrap®												
E	N95	Molded	S	None	Yes	No	No	None	White	2701N95	**1DLN5**	10
E	N95	Molded	M	None	Yes	No	No	None	White	2700N95	**1DLN4**	10
E	N95	Molded	M	None	Yes	No	No	None	Black	M2700N95	**3CDE6**	10
E	N95	Molded	M	OV/OZ	Yes	No	No	None	White	2800N95	**3NML2**	10
E	N95	Molded	S	OV/OZ	Yes	No	No	None	Black	M2801N95	**1DLN7**	10
E	N95	Molded	M	OV/OZ	Yes	No	No	None	Black	M2800N95	**1DLN6**	10
E	N100	Molded	S	None	Yes	No	No	Full	White	2731N100	**3CDE5**	5
E	N100	Molded	M	None	Yes	No	No	Full	White	2730N100	**3CDE4**	5
Healthcare and Surgical												
F	N95	Molded	XS	None	No	No	No	None	Blue	1510	**3NMF7**	20
F	N95	Molded	S	None	No	No	No	None	Blue	1511	**3NMF6**	20
F	N95	Molded	M	None	No	No	No	None	Blue	1512	**3NMF5**	20
F	N95	Molded	L	None	No	No	No	None	Blue	1513	**3NMF4**	20
F	N95	Molded	S	None	No	No	No	None	Blue	1517	**3WXZ4**	20
F	N95	Flat-Fold	M	None	No	No	No	None	Blue	1712	**6DMW9**	20

Half- and Full-Facepiece Respirators

MOLDEX Ideas that wear well.

User-friendly reusable respirators are designed for comfort and convenience, with a wide field of vision and fewer parts for simplified maintenance. Filters and cartridges are sold separately.

7000 and 7800 Series Half-Facepiece—Lightweight respirators with extra-wide sealing flange and compact design fits well under welding helmets and with safety glasses. The premium 7800 Series offers higher heat and compression resistance with enhanced comfort and durability.

9000 Series Full-Facepiece—Streamlined, ultra-lightweight respirators feature a ratchet fastening strap system and standaway head harness for easy, quick removal. The frameless mask has an extra-wide lens for extended field of view.

9000 Series Full-Facepiece Accessories—Spectacle Kit lets you use prescription lenses (not included) with the respirator. Lens Covers help protect lenses from scratching and overspray.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
7000 Series Half-Facepiece				
Thermoplastic Elastomer	S	Yolk and Cradle	7001	**D6326**
	M	Yolk and Cradle	7002	**D6326**
	L	Yolk and Cradle	7003	**D6326**
7800 Series Half-Facepiece				
Silicone	S	Single Strap with Cradle	7801	**52ZV52**
	M	Single Strap with Cradle	7802	**52ZV53**
	L	Single Strap with Cradle	7803	**52ZV54**
9000 Series Full-Facepiece				
Thermoplastic Elastomer	S	—	9001	**D6325**
	M	—	9002	**D6325**
	L	—	9003	**D6325**

Description	Mfr. Model	Item No.
9000 Series Full-Facepiece Accessories		
Spectacle Kit	0098	**6DMU8**
Lens Covers, Pkg. of 15	0093	**6DMU5**

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Preassembled Combination Stacked Cartridge and Particulate Filters				
OV, P100	Magenta	7140	**25UK46**	2
AM, CL, FM, HC, HF, HS, MA, OV, P100, SD	Magenta, Olive	7640	**16V849**	2
Chemical Cartridges				
OV	Black	7100	**6DMV1**	2
CD, CL, HC, HF, HS, SD	White	7200	**6DMV2**	2
CD, CL, HC, HF, HS, OV, SD	Yellow	7300	**6DMV3**	2
AM, MA	Green	7400	**6DMV4**	2
FM	Olive	7500	**6DMV5**	2
AM, CD, CL, FM, HC, HF, HS, MA, OV, SD	Olive	7600	**6DMV6**	2
Particulate Cartridge				
P100	Magenta	7990	**6DMW0**	2
Particulate Filter Discs				
P100	Magenta	7940	**6DMV8**	2
AG, OV, P100	Magenta	7960	**6DMV9**	2
AG, OV, P100	Magenta	7950	**35ZC18**	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Prefilters and Retainers			
N95 Prefilter	8910	**3TYW5**	10
R95 Prefilter	8970	**6DMW1**	10
Prefilter Retainer	7020	**6DMV0**	2
Filter Disc Adapter			
P100 Filter Disk Piggyback Adapter	7920	**6DMV7**	2
Filter Disc Covers			
Splash and Spark Protectors	7999	**35ZC19**	2

7000 Series

7800 Series

9000 Series

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

6000 Series Half-Facepiece

6500 Series Half-Facepiece

6000 Series Full-Facepiece

FF-400 Series Full-Facepiece

7000 Series Half-Facepiece

7000 Series Full-Facepiece

Half- and Full-Facepiece Respirators

3M

- NIOSH approved

Cartridges and filters sold separately. Fit test kits sold separately, see page 1686.

6000 SERIES

Soft, lightweight facepiece with easily adjustable head strap offers increased comfort. Full-facepiece models feature a large lens that provides a wide field of view.

6500 SERIES

Adjustable head harnesses provide excellent fit and comfort over long shifts. The Cool Flow™ valve helps reduce heat and moisture, for better comfort and easier breathing. With a light, comfortable silicone face seal. Models with Quick Latch mechanism permit easy on and off; no need to remove your hard hat or faceshield as you move in and out of contaminated areas.

FF-400 SERIES

Feature a soft silicone nose cup and large lens that allow for superior peripheral vision. Unique 3M™ Scotchgard™ protector helps the lens resist dirt, paint, and stains and makes it easier to clean. 3M™ Cool Flow™ exhalation valve reduces heat and moisture buildup inside the facepiece.

7000 SERIES

Soft, pliable facepiece and adjustable head strap for maximum comfort. Half-facepiece respirators are easily adjustable and feature Cool Flow™ exhalation valve. Full-facepiece respirators feature standard nose cup to prevent fogging, double-flap face seal, and an antiscratch polycarbonate lens for greater durability.

AIR REGULATOR ASSEMBLY

Use with 6000, FF-400, and 7000 series facepieces and supplied air hose to have respirators in supplied air mode. Kit includes waist belt, air control valve, and breathing tube.

ACCESSORIES FOR FULL-FACEPIECE RESPIRATORS

Spectacle Kits—Allow prescription eyewear to be worn with respirator.

Lens Covers—Protect lenses from soil or damage.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
6000 Series				
Half-Facepiece				
Thermoplastic Elastomer	S	Yolk and Cradle	6100	F8766
	M	Yolk and Cradle	6200	F8766
	L	Yolk and Cradle	6300	F8766
Full-Facepiece				
Silicone/Thermoplastic Elastomer	S	—	6700	F8840
	M	—	6800	F8840
	L	—	6900	F8840
6500 Series				
Half-Facepiece				
Silicone	S	Yolk and Cradle	6501	29WT65
	M	Yolk and Cradle	6502	29WT66
	L	Yolk and Cradle	6503	29WT67
Half-Facepiece with Quick-Latch Drop Down				
Silicone	S	Yolk and Cradle	6501QL	29WT68
	M	Yolk and Cradle	6502QL	29WT69
	L	Yolk and Cradle	6503QL	29WT70
FF-400				
Full-Facepiece				
Silicone	S	—	FF-401	G8865
	M	—	FF-402	G8865
	L	—	FF-403	G8865
7000 Series				
Half-Facepiece				
Silicone	S	Yolk and Cradle	7501	F9175
	M	Yolk and Cradle	7502	F9175
	L	Yolk and Cradle	7503	F9175
Full-Facepiece				
Silicone	S	—	7800S-S	F8386
	M	—	7800S-M	F8386
	L	—	7800S-L	F8386

Description	Mfr. Model	Item No.	Pkg. Qty.
Air Regulator Assembly			
Dual Airline Back-Mounted Adapter Kit	SA-2000	3WYF8	1
Accessories For Full-Facepiece Respirators			
Spectacle Kit for 6000 Series	6878	4JG35	1
Spectacle Kit for FF-400 Series	FF-400-20	5WYZ9	1
Spectacle Kit for 7000 Series	7925	5AZ96	1
Lens Covers for 6000 Series	6885	4JG07	100
Lens Covers for FF-400 Series	FF-400-15	5WYZ7	25
Semipermanent Lens Covers for FF-400 Series	FF-400-17	5WYZ8	5
Lens Covers for 7000 Series	7899-100	1AGE7	100

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Chemical Cartridges				
OV	Black	6001	6AM37	2
AG, OV	Yellow	6003	4AD98	2
FM, OV	Black, Olive	6005	5AJ48	2
OV, P100	Black, Magenta	60921	4JG10	2
AG, OV, P100	Magenta, Yellow	60923	4JG12	2
FM, OV, P100	Black, Magenta, Olive	60925	4JG14	2
AM, CD, CL, FM, HC, HF, HS, MA, OV, SD	Olive	6006	4JG24	2
AM, CD, CL, FM, HC, HF, HS, MA, OV, P100, SD	Magenta, Olive	60926	4JG16	2
AG	White	6002	3AG78	2
AG, P100	Magenta, White	60922	4JG11	2
AM, MA	Green	6004	1AZ78	2
AM, MA, P100	Green, Magenta	60924	4JG13	2
Particulate Cartridge Filters				
P100	Magenta	7093	3PB42	12
AG, OV, P100	Magenta, Olive	7093C	4AVH8	12
Low-Profile Particulate Filters, Premium Efficiency with Electret Filter Media				
P100	Magenta	2291	5WYZ4	2
OV, P100	Magenta	2297	5WYZ6	2
AG, P100	Magenta	2296	5WYZ5	2
Low-Profile Particulate Filters				
P100	Magenta	2091	4JG27	2
P100	Magenta	2097	4JG29	2
AG, P100	Magenta	2096	4JG28	2
P95	Blue	2071	4MH55	2
AG, OV, P95	Blue	2078	4MH56	2
AG, HF, P95	Olive	2076HF	4AVH9	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Prefilters			
P95 Prefilter	5P71	4MH53	10
N95 Prefilter	5N11	4JG21	10
Adapters and Retainers			
Adapter for 4MH53 and 4JG21 (Requires Retainer 5T464)	603	5WZA3	2
Retainer for 4MH53 and 4JG21	501	5T464	20
Adapter Allows Connection of 2000 Series Low-Profile Particulate Filters to 6000 Series Chemical Cartridges	502	3AK17	20

F8882

F8857

F8896

Disposable Dual Cartridge Half-Facepiece Respirator Kits

3M

- NIOSH approved

For easy ordering, commonly used respirators are preassembled with permanently attached cartridges on a 5000 series half-facepiece respirator.

Respirator Cartridge Included	▶CHOOSE: Size	Item No.
OV	S, M, L	F8882
OV, P95	S, M, L	F8857
AG, OV	S, M, L	F8896

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

MSA The Safety Company

Advantage® Half- and Full-Facepiece Respirators

- NIOSH approved

Cartridges and filters sold separately. Fit test kits available; see page 1686.

200 LS Half-Facepiece—Soft, light, and comfortable. Sealing surface conforms to wearer.

420 Half-Facepiece—Allow quick adjustment for stable, comfortable fit. Adapt to a variety of head sizes and facial contours. Switch easily between lock-down and drop-down modes.

420 Half-Facepiece with Threaded Cartridge Adapters—1-pc. headband and harness assembly eliminates pressure points; form-fitting neck buckles and wide straps provide a comfortable fit. Face seal adapts to facial contours. Adjustable crown strap and quick, easy switch between lock-down and drop-down modes for flexibility. Include 2 cartridge adapters for use with Comfo® threaded cartridges, available on Grainger.com®.

3200 Full-Facepiece—Soft facepiece with rubber head harness and adjustable straps. Respirators feature antiscratch polycarbonate wraparound lens and nose cup.

4200 Twin-Port Full-Facepiece—Dedicated twin-cartridge respirators with adaptable bayonet cartridge adapters mounted onto the lens. Rubber head harness. In-turned lip provides ideal face seal.

4200 Respirator RD40 Adapter—Converts the 4200 full-facepiece respirator for applications including supplied air respirators, powered air-purifying respirators (PAPRs), and gas mask configurations.

3200 and 4200 Accessories—Spectacle kit allows prescription eyewear to be worn with respirator. Lens covers protect lenses from soil or damage.

200 LS Half-Facepiece with Single Neckstrap

420 Half-Facepiece with Double Neckstrap

3200 Full-Facepiece

4200 Twin-Port Full-Facepiece

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
200 LS Half-Facepiece				
Thermoplastic Rubber	S	Single Neck Strap	815448	**4LR46**
	M	Single Neck Strap	815444	**4LR40**
	L	Single Neck Strap	815452	**4LR32**
	S	Single Strap with Cradle	815696	**6JR27**
	M	Single Strap with Cradle	815692	**6JR26**
	L	Single Strap with Cradle	815700	**6JR28**
420 Half-Facepiece				
Silicone	S	—	10102182	**5JGE5**
	M	—	10102183	**5JGE6**
	L	—	10102184	**5JGE7**
420 Half-Facepiece with Threaded Cartridge Adapters				
Silicone	S	Yolk and Cradle	10119576	**10X301**
	M	Yolk and Cradle	10119575	**10X302**
	L	Yolk and Cradle	10119574	**10X303**
3200 Full-Facepiece				
Silicone	S	—	10031340	**3PB92**
	M	—	10031309	**3PB93**
	L	—	10031341	**3PB94**
4200 Twin-Port Full-Facepiece				
Silicone	S	—	10083786	**10X304**
	M	—	10083782	**10X305**
	L	—	10083790	**10X306**

Description	Mfr. Model	Item No.
4200 Respirator RD40 Adapter		
Converts Facepiece to 5 Types of Respiratory Configurations	10065330	**2YRD8**
3200 and 4200 Accessories		
Spectacle Kit	10029298	**5KB65**
Clear Lens Covers, Pkg. of 25	10031542	**5KB64**

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Chemical Cartridges				
OV	Black	815355	**4LM93**	2
OV, P100	Black, Magenta	815362	**4LN01**	2
OV, P100	Black, Magenta	815641	**4LN09** *	2
CD, CL, HC, OV, SD	Yellow	815357	**4LM95**	2
CD, CL, HC, OV, P100, SD	Magenta, Yellow	815364	**4LN03**	2
AM, CD, CL, FM, HC, HF, OV, SD	Olive	815359	**4LM97**	2
AM, CD, CL, FM, HC, HF, MA, OV, P100, SD	Magenta, Olive	815366	**4LN05**	2
AM, MA	Green	815358	**4LM96**	2
AM, MA, P100	Green, Magenta	815365	**4LN04**	2
CL, MV	Orange	815361	**4LM99**	2
CL, MV, P100	Magenta, Olive	815368	**4LN07**	2
CD, CL, HC, HS, SD	White	815356	**4LM94**	2
CD, CL, HC, P100, SD	Magenta, White	815363	**4LN02**	2
Low-Profile Particulate Filter Cartridge				
P100	Magenta	815369	**4LN08**	2
Low-Profile Particulate Filters - Flexi-Filter® for Welding				
P100	Magenta	818342	**6JR29**	2
OV, OZ, P100	Magenta	818343	**6JR30**	2
AG, HF, P100	Magenta	818344	**2ETH4**	2
N95	White	818346	**6JR31**	2
N95, OV, OZ	Black	818347	**1DKR7**	2

** Effective against, but not NIOSH approved for, iodine vapor.*

Description	Mfr. Model	Item No.	Pkg. Qty.
Prefilters and Covers			
N95 Prefilter	815394	**4LR66**	10
N95 Prefilter	816357	**4LR71**	50
R95 Prefilter	815397	**4LR68**	20
Snap-On Cover for 4LR66 and 4LR71	815392	**4LR53**	2
Snap-On Cover for 4LR68	815401	**4LR54**	2

MSA The Safety Company

Advantage® Single-Port Full-Facepiece Respirators

- NIOSH approved

3100 series respirators have a nosecup that helps reduce lens fogging. Canisters attach directly to the facepiece with a single-port, standard-thread filter connection at the chin.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
Advantage® 3100 Series Full-Facepiece				
Silicone	S	4 pt Strap	10031343	**1MBJ3**
	M	4 pt Strap	10031342	**1MBJ4**
	L	4 pt Strap	10031344	**1MBJ5**

Approved For	Color Code	Mfr. Model	Item No.
Canisters			
OV, P100	Black, Magenta	10067469	**1MBH9**
HF	Magenta, Olive	10067491	**1MBJ1**
AM, CL, P100, PH	Magenta, Olive	10059903	**1MBH8**

3100 Full-Facepiece

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

7700 Series

RU8500 Series

RU8800 Series

5400 Series

RU6500 Series

7600 Series (Cartridges Sold Separately)

Honeywell NORTH

Half- and Full-Facepiece Respirators

- NIOSH approved

Cartridges and filters sold separately. Fit test kits available; see page 1686.

HALF-FACEPIECE RESPIRATORS

5500 Series—Comfortable, low-profile design in latex-free materials is an economical choice for subcontractors, plant guests, and occasional users.

7700 Series—Medical-grade silicone half mask with a dual flange provides complete face-to-mask sealing and all day comfort.

RU8500 Series—Features a speech diaphragm that provides vocal clarity and aids in communication.

RU8800 Series—Has a triple flange that provides 3 surface areas to seal mask to the face. Designed to fit the widest range of facial types with silicone construction for all day comfort.

FULL-FACEPIECE RESPIRATORS

5400 Series—Economical models feature a 200° field of vision. Support APR, PAPR, and CF-SAR configurations.

RU6500 Series—Soft, durable silicone seal for all day comfort. Models feature the most configurations for APR, PAPR, and CF-SAR using either the center port or side ports.

7600 Series—Medical-grade silicone sealing surfaces and a speech diaphragm that allows clear communication. Antiscratch polycarbonate lens provides a 200° field of vision and a downward view for sight in all directions. Support APR, PAPR and CF-SAR configurations.

7600 Series Welding—The welding shield can be flipped up or removed when not welding. 2" x 4¼" shade plates not included.

FACEPIECE ACCESSORIES

Backpack Adapter—Backpack relocates APR cartridges to wearer's back to accommodate welding faceshields, or to move cartridges away from paint spray to help extend cartridge life. Converts half- (5500, 7700, RU8500, or RU8800 series) to a backpack-style respirator and helps minimize weight on the facepiece.

Welding Attachment—Converts 5400 and 7600 Series full-facepiece respirators to a welding respirator. Uses standard 2" x 4¼" welding lens, sold separately.

Spectacle Insert Kits—Metal spectacle frame with support wire accommodates personal prescription lenses (not included) that are fitted to the frame.

Facepiece Material	Size	Suspension	Mfr. Model	Item No.
Half-Facepiece Respirators				
5500 Series				
Elastomer	S	Yolk and Cradle	550030S	**F8836**
	M	Yolk and Cradle	550030M	**F8836**
	L	Yolk and Cradle	550030L	**F8836**
7700 Series				
Silicone	S	Yolk and Cradle	770030S	**4T549**
	M	Yolk and Cradle	770030M	**3A182**
	L	Yolk and Cradle	770030L	**4T550**
RU8500 Series (Blue)				
Silicone	S	Yolk and Cradle	RU85001S	**52NY73**
	M	Yolk and Cradle	RU85001M	**52NY74**
	L	Yolk and Cradle	RU85001L	**52NY75**
RU8800 Series				
Silicone	S	Yoke and Cradle	RU88001S	**52ZV57**
	M/L	Yoke and Cradle	RU88001ML	**52ZV58**
Full-Facepiece Respirators				
5400 Series				
Elastomer	S	—	54001S	**F8879**
	M/L	—	54001	**F8879**
RU6500 Series				
Silicone	S	—	RU65001S	**J5472**
	M	—	RU65001M	**J5472**
	L	—	RU65001L	**J5472**
	S	—	RU65002S	**45VH95**
	M	—	RU65002M	**52VK77**
	L	—	RU65002L	**45VH94**
7600 Series				
Silicone	S	—	760008AS	**F9080**
	M/L	—	Z760008A	**F9080**
7600 Series Welding				
Silicone	S	—	760008ASW	**4GM18**
	M/L	—	760008AW	**J6301**

Description	Mfr. Model	Item No.
Respirator Accessories		
Backpack Adapter	BP1002	**5HV95**
Welding Attachment for 5400 and 7600 Series	8404	**4GM35**
Spectacle Insert Kits Fits 5400 and 7600 Series	760024	**3PRG8**
Spectacle Insert Kit Fits RU6500 Series	962260	**3NVJ3**

Cartridge Approved For	Color Code	Mfr. Model	Item No.	Pkg. Qty.
Chemical Cartridges				
OV	Black	N75001L	**16M237**	1
OV, P100	Black, Magenta	7581P100L	**16M230**	1
AG, OV, P100	Magenta, Yellow	7583P100L	**16M232**	1
CD, CL, HC, HF, HS, OV, SD	Yellow	N75003L	**16M239**	1
AM, CD, CL, FM, HC, HF, HS, MA, OV, SD	Olive	75SCL	**16M235**	1
AM, CD, CL, FM, HC, HF, HS, MA, OV, P100, SD	Magenta, Olive	75SCP100L	**16M236**	1
AG, P100	Magenta, White	7582P100L	**16M231**	1
AM, MA	Green	N75004L	**16M240**	1
CL, MV	Olive	N750052L	**16M241**	1
AM, MA, P100	Green, Magenta	7584P100L	**16M233**	1
CL, MV, P100	Magenta, Olive	75852P100L	**16M234**	1
CD, CL, HC, HF, HS, SD	White	N75002L	**16M238**	1
Particulate Cartridges				
P100	Magenta	7580P100	**6T451**	4
P100	Magenta	7580P100	**4GM16**	144
Low-Profile Filters				
P100	Magenta	75FFP100	**4RM17**	2
AG, OV, OZ, P100	Magenta	75FFP100NL	**3WZD4**	2

Description	Mfr. Model	Item No.	Pkg. Qty.
Particulate Filter Pads, Filter Adapter, and Filter Retainer Cover/Holder Kit			
N95 Filter Pads	7506N95	**4RM31**	10
R95 Filter Pads	7506R95	**5HV73**	10
N99 Filter Pads	7506N99	**3WXZ8**	10
Filter Adapter, Attaches Low-Profile Particulate Filters 4RM17 or 3WZD4 to Chemical Cartridges	N750035	**4RM26**	1
Filter Retainer Cover/Holder Attaches Filter Pad 4RM31 or 5HV73, or 3WXZ8 to Chemical Cartridges	N750036	**16M242**	1

5JG98

4T871

5HV90

Honeywell NORTH

Half-Facepiece Respirator Kits

- NIOSH approved

The most commonly used respirators packaged complete with chemical cartridges and/or filters for easy ordering.

Size	Mfr. Model	Item No.
OV Respirator Kits		
M	7701M	**5JG98**
L	7701L	**5JG97**
OV, N95 Non-Oil Particulates Respirator Kits		
M	7701N95M	**4T871**
L	7701N95L	**4T872**
OV, P100 Any Particulates Respirator Kits		
S	7781P100S	**5HV94**
M	7781P100M	**5HV93**
L	7781P100L	**5HV92**
P100 Any Particulates Respirator Kits		
S	7780P100S	**5HV91**
M	7780P100M	**5HV90**
L	7780P100L	**5HV89**

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

3M

Versaflo™ TR Powered Air Purifying Respirator Kits

Easy-Clean Kits—Include PAPR blower unit, easy-clean belt, headcover/hood assembly, prefilter, filter, adjustable-length tube, and battery charger.

Heavy Industry Kits—Provide combined eye, face, head, and respiratory protection for rugged operations. Include PAPR, high-durability leather belt, respirator hard hat, spark arrester/filter, heavy-duty breathing tube, and battery charger.

Description	Mfr. Model	Item No.
Versaflo™ TR-600 PAPR Easy Clean Kits		
PAPR and Hood with Integrated Head Suspension, Size L	TR-600-ECK	**38HX30**
Versaflo™ TR-600 PAPR Heavy Industry Kits		
PAPR, Hard Hat Assembly with Premium Visor, Flame-Resistant Face Seal, and HE/OV/AG Combination Filter Cartridge	TR-600-HIK	**38HX31**

38HX31

3M

Breathe Easy™ Powered Air Purifying Respirator System

- NIOSH approved

Complete system is for use in first responder applications. Hood 3NNF9 is chemical-resistant, allows excellent vision, and can accommodate facial hair and glasses.

Description	Includes	Mfr. Model	Item No.
PAPR System	Airflow Indicator, Battery Adapter, Battery Charger, Blower, Breathing Tube, Butyl Hood, Cartridge, Cartridge Shower Cover, Decon Belt, Duffel Bag, Easy Clean Holster, Standard Battery	RBE-10BR	**449U13**
Accessories			
Adapter Kit	Battery, Charger, Holster	RBE-600	**449U12**
Hood	Elastic Headband, Sewn-In, Shoulder Length Inner and Outer Shroud, Wide View Face Shield	BE-10BR	**3NNF9**
Easy Clean Holster	—	TR-657	**411D22**
Heavy Duty Holster	—	TR-656	**411D23**
Battery Adapter	—	TR-659	**411D24**
GVP Power Cord	—	GVP-610	**411D25**

449U13

3M

Versaflo™ TR-600 Powered Air Purifying Respirator Assembly Kits

- Headgear sold separately; see page 1680

Multiple airflow options and an expanded range of filters and cartridges help protect against hazards associated with handling pharmaceutical ingredients and cleaning operations. User-friendly with intuitive, colored interactive touch points and visual, vibratory, and audible low-flow and low-battery indicators. Come precalibrated and ready to use.

Description	Mfr. Model	Item No.
PAPR Assemblies (Headgear Sold Separately)		
With High Durability Leather Belt and Standard Battery	TR-613N	**38HX33**
With High Durability Leather Belt and High-Capacity Battery	TR-616N	**38HX35**
With Easy Clean Belt and Standard Battery	TR-614N	**38HX34**
With Easy Clean Belt and High-Capacity Battery	TR-617N	**38HX36**
Batteries		
Standard Battery, 4 to 6 hr. For Use with PAPR 38HX33, 38HX34	TR-630	**38HX41**
High-Capacity Battery, 8 to 12 hr. For Use with PAPR 38HX35, 38HX36	TR-632	**38HX42**
Chargers		
Single Station Battery Charger Kit for Economy Battery 38HX41	TR-641N	**38HX44**
Four Station Battery Charger Kit for High Capacity Battery 38HX42	TR-644N	**38HX45**
Filter Cartridges		
AG, HE Filter, Pkg. of 5	TR-6320N	**48ZU40**
FM, HE, Pkg. of 5	TR-6350N	**48ZU41**
AM, MA, HE, Pkg. of 5	TR-6360N	**49EM17**
OV, HE, Pkg. of 5	TR-6510N	**48ZU36**
OV, AG, HE, Pkg. of 5	TR-6530N	**48ZU37**
HE, Pkg. of 5	TR-6710N-5	**48ZU35**
Filter Covers		
For 48ZU40, 48ZU41, 49EM17	TR-6300FC	**38HX52**
For 48ZU36, 48ZU37	TR-6500FC	**38HX56**
For 48ZU35	TR-6700FC	**38HX61**

38HX34

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

Honeywell NORTH

Primair® 700 Series Powered Air-Purifying Respirator (PAPR)

449N06

Features 3-speed airflow for more comfortable use in manufacturing, pharmaceutical, and hospital lab applications. The illuminated keypad has large buttons you can operate even when wearing gloves. The battery and blower motor are integrated into an ergonomic belt that distributes the weight for a more comfortable fit. Filter locks into place with just a ¼ turn to help ensure a tight and secure connection.

Description	Includes	Mfr. Model	Item No.
PAPR System	Battery, Battery Charger, Blower, Comfort Pad, Free Starter Kit, Nylon Belt	PA701HE	**449N06**
Straight Breathing Tube	Breathing Tube, Loose Fit	PA031	**449N07**

More Headgear Choices

Personnel who already have fit-tested North® Honeywell® headgear can adapt it to a CA200 PAPR system—all it takes is a breathing tube and cartridge. This lets the wearer keep familiar gear and helps reduce the complexity of respiratory protection compliance. See page 1674 for NIOSH-approved half- and full-facepiece respirators.

MSA The Safety Company

OptimAir® TL Powered Air-Purifying Respirators (PAPRs)

2YRC9 2YRE2 2YRD5

- NIOSH approved
- Facepieces meet ANSI Z87.1

Each PAPR system includes motor-blower, battery, charger, breathing hose, and decontamination belt. Feature audible and visual low-flow and low-battery alarms. To complete the PAPR system, select a hood or full-facepiece respirator and appropriate cartridge. Advantage 4000® series facepieces require Cartridge Adapter 2YRD8, sold separately.

Description	Mfr. Model	Item No.	
PAPR Systems			
For Use with Hood, Lithium Battery	10081117	**4AFV4**	
For Use with Hood, NiMH Battery	10081116	**2YRC9**	
For Use with Full-Facepiece, Lithium Battery	10081115	**4AFV3**	
For Use with Full-Facepiece, NiMH Battery	10081114	**2YRD1**	
Hoods for PAPR Systems			
Tychem® QC, Pkg. of 4	10083330	**2YRE2**	
Tychem® SL, Pkg. of 4	10083382	**2YRE3**	
Full-Facepiece Respirators for PAPR Systems			
Advantage® 4000 Series			
Silicone, S	10083798	**2YRD5**	*
Silicone, M	10083794	**2YRD6**	*
Silicone, L	10083802	**2YRD7**	*
Ultra-Elite®			
Hycar Rubber, M	493020	**D9078**	
Hycar Rubber, L	493108	**D9078**	
Replacement Batteries and Chargers			
Lithium Battery/8 hr.	10076109	**4AFV5**	
Lithium Battery Charger	10076107	**4FRP8**	
NiMH Rechargeable Battery/4 hr.	10076108	**2YRD9**	
NiMH Battery Charger	10076110	**2YRE1**	
Facepiece Adapter for Advantage® 4000			
Converts Facepiece to 5 Types of Respiratory Configurations	10065330	**2YRD8**	
Chemical Cartridges			
P100, Magenta, Pkg. of 6	10080455	**2YRD2**	
OV, AG, P100, Yellow/Magenta, Pkg. of 6	10080454	**2YRD3**	
AG, AM, FM, P100, Olive/Magenta, Pkg. of 6	10080456	**2YRD4**	

** Advantage® 4000 facepiece requires Adapter 2YRD8 for use with cartridges.*

16M250 16M256

Honeywell NORTH

CA200 Series Powered Air-Purifying Respirator (PAPR) Assembly Kits

- NIOSH approved

Assemblies feature a triple-alarm system with audible, vibratory, and visual alerts that warn the wearer when there are blocked or clogged filters and at 5% and 10% battery life remaining. Airflow automatically adjusts to meet OSHA and CSA cfm requirements. Each kit includes a blower, Li-ion battery, belt (standard or decon), single-unit charger, flow meter, and carrying case. Require breathing tube, headgear, and cartridges, sold separately.

Note: Personnel who already have fit-tested Honeywell® North® tight fitting facepieces can adapt it to a CA200 PAPR system—all it takes is a breathing tube and cartridge. This lets the wearer use a common facepiece and helps reduce the complexity of respiratory protection compliance. See page 1674 for NIOSH-approved tight fitting facepieces (ie. half- and full-facepiece respirators).

Description	Mfr. Model	Item No.
PAPR Assembly Kits		
Standard Belt and Backpad	CA201	**16M250**
Breathing Tubes		
34"L Straight, For Use with Hoods	CA127	**16M248**
40"L Straight, For Use with Hoods	CA127L	**16M249**
Primair® 100 Series Headgear		
Hood with Collar and Adjustable Headgear, White, Universal Size	PA131	**16M256**
Headcover with Adjustable Headgear, White, Size S	PA101M	**1AAN6**
Bibbed Hood and Adjustable Length, White, Universal Size	PA111	**1AAN8**
Coated Bibbed Hood and Adjustable Length, White, Universal Size	PA121	**1AAN9**

Bullard

EVA Series Powered Air-Purifying Respirators (PAPRs)

6KXU7 6AG91 6KXV3

- NIOSH approved

Active Flow Technology automatically responds to the user's need for constant, steady airflow. Systems feature an easy-to-read battery status display and alarms for low battery power and low airflow. Easy-to-install combination filter. PAPR Assemblies include battery, belt, blower, and charger. To complete the PAPR system, select a filter cartridge, hood or full-facepiece respirator, and breathing tube.

Description	Mfr. Model	Item No.
PAPR Assemblies		
For Use with Loose-Fitting Facepiece and Hoods	EVA2	**6KXU7**
For Use with Full-Facepiece Respirators	EVA5	**6KXV1**
Filter Cartridges		
HEPA, Pkg. of 6	PAPRFC3	**6KXU9**
OV, CL, SD, CD, HC, HF, HEPA Pkg. of 6	PAPRFC4	**6KXV0**
Components for PAPR 6KXU7		
Tychem® QC Hood, Single Bib, (Suspension Sold Separately)	20TJN	**6AT82**
Tychem® QC Hood, Double Bib, (Suspension Sold Separately)	20TICN	**6AG91**
Suspension with Sure-Lock® Ratchet Adjustment for 6AT82 and 6AG91	20RT	**6AG89**
Tychem® Loose-Fitting Facepiece with Headband Suspension, Size L	20LFL	**3WXR5**
Breathing Tube for Hoods 6AT82 and 6AG91	PA1BT	**3WXT4**
Breathing Tube for Loose-Fitting Facepiece 3WXR5	PA20LFBT	**3WXT8**
Components for PAPR 6KXV1		
Spectrum Full-Facepiece Respirator, Size M/L	PASPECML	**6KXV3**
Breathing Tube for Respirator 6KXV3	PA4BT	**6KXV4**
PAPR Battery Packs		
For PAPR No. 6KXU7	EVABAT1	**6KXU8**
For PAPR No. 6KXV1	EVABAT2	**6KXV2**

Find Respiratory Filter and Gas/Chemical Cartridge Abbreviations on page 1669.

ALLEGRO INDUSTRIES

Pureflo® Powered Air-Purifying Respirator (PAPR) Systems

32HD64

- NIOSH approved
- Meet ANSI Z89.1 Type I Class G for head protection, Z87.1+ for faceshield/eye protection

Helmets provide all-in-1 head, eye, face, and respiratory protection. A lightweight, battery-driven positive-pressure PAPR is integrated in the helmet, eliminating waist belts and trailing hoses or leads. Electronic systems management (ESM) features a heads-up display and visual and audible alarm for airflow and filter and battery life. Flow rate adjusts to 7.6 or 8.2 cfm.

Description	Mfr. Model	Item No.
Pureflo® ESM PAPR Systems		
Black Helmet	2000-S	**32HD64**
White Helmet with Fixed Lens	2000-H	**32HD65**
Filters and Accessories		
Battery Pack	2000-BP	**32HD68**
Battery Charger	2000-BC	**32HD69**
Neck Cape For Use with 32HD64 and 32HD65	2000-NC	**32HD70**
Visor Protectors, Pkg. of 4	2000-VP	**32HD71**
HE Filters, Pkg. of 8	2000-HEPA	**32HD72**
HE/HF/HC Filter	2000-HEFC	**32HD73**

ALLEGRO INDUSTRIES

Pureweld® Powered Air-Purifying Respirator (PAPR) System

32HD66

- NIOSH approved
- Meets ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

All-in-1 welding helmet provides head, eye, face, and respiratory protection. The helmet has an integrated lightweight, battery-driven positive-pressure PAPR, which eliminates waist belts and trailing hoses or leads. A heads-up display and visual and audible alarm for air flow and filter and battery life are provided by the electronic systems management (ESM) feature. Flow rate adjusts to 7.6 or 8.2 cfm. The system can function as a fracking respirator to help protect oil and gas workers against inhaling silica dust. The welding window flips up for easy visibility and conversation through a clear inner visor. Choose fixed or autodarkening filter. Includes neck cape, HE filter, battery pack, and charger.

Description	Mfr. Model	Item No.
Pureweld® ESM PAPR Systems		
Blue Welding Helmet with Filter Shades 5, 9 to 13	2000-W	**32HD66**
Black Welding Helmet with NexGen Auto Darkening Filter Shade 10	2000-WB	**32HD67**
Filters and Accessories		
Battery Pack	2000-BP	**32HD68**
Battery Charger	2000-BC	**32HD69**
NexGen Auto Darkening Filter Shade Assembly For Use with 32HD67	9904-35	**32HD74**
HE Filters, Pkg. of 8	2000-HEPA	**32HD72**
HE/HF/HC Filter	2000-HEFC	**32HD73**

EZ Air 40LK59

EZ Air 40LK60

EZ Air Pro 40LK57

EZ Air Pro 40LK61

EZ Air Pro 40LK56

ALLEGRO INDUSTRIES

EZ Air and EZ Air Pro PAPRs

- NIOSH approved
- Meet ANSI Z89.1 Type I Class G for head protection, Z87.1+ for faceshield/eye protection

Complete particulate system for industrial applications offers combined respiratory, eye, and face protection against hazardous airborne contaminants and flying debris. Include downtube with FR cover, blower, HE filter, waist belt, battery, charger, and storage bag. Batteries provide up to 8 hr. use per full charge, 5 hr. full recharge time.

EZ Air—Motorized, lithium-ion battery operated system provides constant supply of fresh, filtered air over user's face. Large helmet design accommodates safety glasses under faceshield. Has airduct headgear assembly and flow tester, and features audible, visual, and vibration alarms. Waist belt is lightweight and adjustable. Rechargeable battery.

EZ Air Pro—Designed with superb balance, no fit testing required. Helmets are interchangeable with supplied air respirators and be converted. Ergonomically and lightweight waist pack has low profile style and holds NiMH battery pack.

Description	Mfr. Model	Item No.
EZ Air PAPRs		
Black Welding Helmet with ADF Lens and 1.9" x 3.8" Viewing Area, (4) Light Shade Modes, Shade 5-14, and HE Filter	9935	**40LK59**
Black Welding Helmet with ADF Lens and 3.2" x 3.9" Viewing Area, (3) Light Shade Modes, Shade 5-14, Magnetic Sensor, and HE Filter	9935-DLX	**40LK60**
EZ Air Pro PAPRs		
Blue Helmet with Clear Lens and (2) HE Filters	9934	**40LK57**
Black Welding Helmet with #10 Lens and 3.2" x 3.9" Viewing Area, (3) Light Shade Modes, and (2) HE Filters	9934-WB	**40LK61**
Blue Welding Helmet with ADF Lens and 2.3" x 3.9" Viewing Area, (4) Light Shade Modes, Shade 5-14 Lens, Magnetic Sensor, and (2) HE Filters	9934-W	**40LK56**
Replacement Filters For EZ Air PAPRs		
HE	9935-FIL	**40LK55**
Replacement Filters For EZ Air Pro PAPRs		
HE	PR02-623SP	**40LK62**
HE/OV	PR02-629SP	**40LK58**
HE/HF/HC/SD	PR02-624SP	**40LK63**

3M

Adflo™ Powered Air-Purifying Respirator (PAPR) Systems for Welding

- NIOSH approved
- Facepieces meet ANSI Z87.1-2010 for high impact

Headgear combines hard hat, welding filter, and positive-pressure airflow to help wearer be productive and comfortable while welding or grinding.

The lightweight, compact blower offers continuous filtered air for protection against particles and certain gases. Its slim profile fits into tight places.

The Speedglas™ filter provides superior optical performance. Speedglas™ headgear's auto-darkening feature allows sight at comfortable light levels, with constant eye and face protection.

Systems include a high-efficiency particulate filter, wide leather belt, lithium-ion battery, storage bag, and starter kit.

With 9100-Air Headgear—Lighter and more stable than other systems, this features an adjustable head suspension and a more balanced design. Provides more protection to the ears and sides of the neck. The smooth up-and-down pivot design can lock shield in a raised position.

With 9100FX-Air Headgear—Innovative flip-up pivot design allows easy transition from welding to grinding modes for greater welding flexibility. Clear, wide-view grinding visor offers an enhanced field of view.

With 9100MP Headgear—Provides 5 levels of welder protection in 1 comfortable and easy-to-use system. Compact and lightweight design helps protect the eyes, face, head, hearing, and respiratory system. Also provides overhead protection, increased peripheral vision, and superior optical quality.

- Meets ANSI Z89.1-2009 requirements for Type I Class G hard hats

Speedglas™ Auto Darkening Filters (ADF) and Magnification Plates—Filters feature a built-in magnification plate holder and 7 selectable dark shades, plus the capability to lock in a shade for plasma and torch cutting. They also have a shade 3 grinding mode and tack welding mode to help reduce eye fatigue during tacking applications. Can be used in TIG applications on settings as low as 1A.

Description	Mfr. Model	Item No.
Adflo™ PAPR Systems with Speedglas™ Headgear For Welding		
9100-Air Headgear System		
PAPR with HE Filter (ADF Sold Separately)	35-1101-00SW	**32NC39**
9100FX-Air Headgear System		
PAPR with HE Filter (ADF Sold Separately)	36-1101-00SW	**32NC47**
9100MP Headgear System		
PAPR with HE Filter (ADF Sold Separately)	37-1101-00SW	**32NC52**
Speedglas™ L-SG Series Welding Headgear and Accessories		
Auto Darkening Filters (ADF) and Magnification Plates 9100V, Shades 5 and 8 to 13	06-0000-10	**4EFP2**
Auto Darkening Filters (ADF) and Magnification Plates 9100X, Shades 5 and 8 to 13	06-0000-20	**4EFN9**
Auto Darkening Filters (ADF) and Magnification Plates ADF 9100XX, Shades 5 and 8 to 13	06-0000-30	**4EFP1**
Speedglas™ Auto Darkening Filters (ADF) and Magnification Plates		
Speedglas™ L-SG Series Magnification Plates		
Magnification Plate 1.5X	06-0500-56	**32V211**
Magnification Plate 2.0X	06-0500-57	**32V212**
Magnification Plate 2.5X	06-0500-58	**32V213**
Magnification Plate 3.0X	06-0500-59	**32V214**

ILC DOVER
creating what's next

Sentinel XL™ CBRN PAPR System

- NIOSH approved
- Latex-free

Capacity-2-rated loose-fitting PAPR provides first receivers and other first responders with chemical and biological protection. The butyl hood assembly has a lay-flat design for easy storage; it has a field-replaceable antimicrobial head strap, superior optics, and taped seams. The rugged, dual-chamber blower delivers high flow rates. With an audible/visual low voltage alarm. The system includes a Quick Loc™ waist belt, flow meter, 3 CBRN cartridges, and nonrechargeable battery.

Description	Mfr. Model	Item No.
CBRN PAPR System	S-5000-03	**6NTX4**

1UKG9

3M

CBRN Powered Air-Purifying Respirators (PAPRs)

Breathe Easy™ PAPR Systems—Belt-mounted systems include butyl rubber hood, breathing tubes, decon belt, CBRN cartridges, battery pack, and airflow indicator. Butyl rubber hood material meets MIL-C-51251A.

- NIOSH CBRN approved

CBRN Conversion Kit—Enables conversion of 3M™ non-CBRN Breathe Easy models to NIOSH CBRN approved systems.

Description	Mfr. Model	Item No.
Breathe Easy™ PAPR Systems		
Butyl Rubber Hood, w/Lithium Battery	RBE-L10	**1UKG9**
Breathe Easy™ System Components		
Batteries		
Nonrechargeable Battery, Lithium/12 hr.	520-04-57R01	**4DA54**
Cartridges		
CBRN, Olive, Pkg. of 6	RBE-57	**1UKG6**
OV, AG, SD, CL, HC, AM, MA, HF, CD, FM, Olive/Magenta, Pkg. of 6	453-03-02R06	**4DA69** *
Accessories		
Breathing Tube	RBE-BTH	**1UKG8**
Decon Belt	RBE-BLT	**1UKG7**
Cartridge Shower Cover	RBE-SC	**1UKH2**
CBRN Conversion Kit		
Upgrade 3M™ Models FR-57L10 and FR-57N10 to RBE-L10 and RBE-NM10	RBE-HUP	**2RPJ8**
Replacement Components		
HEPA Cartridge, Pkg. of 12	450-00-01R12	**9W546**
Versaflo Head Cover Hood, Size S/M, 20Pk	S-103S-20	**11V990**
Versaflo Head Cover Hood, Size M/L, 20Pk	S-103L-20	**11V989**

*** For use with 3M™ models FR-57L10 and FR-57N10 to RBE-L10 and RBE-NM10.***

22RP50

16N395

Honeywell
NORTH

Full-Facepiece Respirators

- Meet ANSI Z87.1-1989 impact and penetration requirements

Opti-Fit™ respirators feature 3 canister mounting positions specifically for first responders in CBRN situations. Polycarbonate lens with antiscratch coating permits unobstructed views. 5-strap silicone head harness with chemical-resistant butyl rubber face skirt.

Size	Mfr. Model	Item No.
Silicone Facepiece		
S	753100	**22RP50**
M	763100	**22RP51**
L	773100	**22RP52**
Butyl Rubber Facepiece		
M	769000	**16N395**
L	779000	**16N396**

2PJ70

3M

First Responder CBRN Full-Facepiece Respirators

- NIOSH approved
- Facepieces meet ANSI Z87.1

Protect against certain chemical warfare agents (sarin and mustard gas) and industrial chemicals and particulates. Canister can be mounted on either side for convenience.

Description	Mfr. Model	Item No.
Full-Facepiece Respirators		
Butyl Rubber, S	FR-7800B-S	**2PJ68**
Butyl Rubber, M	FR-7800B-M	**2PJ69**
Butyl Rubber, L	FR-7800B-L	**2PJ70**
CBRN Canister		
Olive/Magenta, Pkg. of 4	FR-15-CBRN	**4DA62**

Scan. Order. Done.
Details on page A1.

48TK35

11W008

6PPH1

5WZA6

1AGD9

6AJ02

1BC35

3M

Supplied Air System Components

Easily build a supplied air respirator system. Just choose headgear, a breathing tube, and an air source that fits your needs.

Note: Headgear, breathing tube, air control valve, and compressed air supply hoses are required parts of a NIOSH-approved system.

HEADGEAR AND ACCESSORIES

Versaflo™ M- and S-Series Headgear and Accessories—Compact, lightweight, and easy to maintain while helping protect the wearer from a range of hazards. Versatility, comfort, and ease of use make this headgear suitable for a variety of applications.

H-Series Hood and Accessories—Can be easily worn with limited facial hair or eyewear.

- Hood assembly meets ANSI Class 1, Class E requirements for industrial headgear

SUPPLIED AIR CONTROL, HOSES, AND FILTRATION

V-Series Air Control Devices—The devices are designed to provide a continuous air flow. For enhanced wearer comfort, 4YG10 (cool) and 1CGB7 (warm) allow the compressed air supply temperature to be adjusted up to 50°F.

Supplied Air Hoses—Combine up to 3 high-pressure hoses in any combination not to exceed 300 ft. Low-pressure hoses can only be used in single increments of 50 or 100 ft.

Compressed Air Filter and Regulating Panel—Helps filter and regulate compressed air.

Description	Mfr. Model	Item No.
Versaflo™ M- and S-Series Headgear and Accessories		
Faceshield	M-206	**48TK35**
M-Series Headgear		
Hard Hat with Standard Visor and Faceseal	M-305	**11W001**
Hard Hat with Premium Visor and Faceseal	M-307	**11W002**
Helmet with Standard Visor and Shroud	M-405	**11W007**
Helmet with Premium Visor and Flame-Resistant Shroud	M-407	**11W008**
M-Series Lens Covers		
Standard Visors, Pkg. of 10	M-926	**11W018**
Premium Visors, Pkg. of 40	M-928	**11W058**
S-Series Headcovers		
Polypropylene with Integrated Suspension, White, Size S/M, Pkg. of 5	S-133S-5	**6PPH1**
Polypropylene with Integrated Suspension, White, Size M/L, Pkg. of 5	S-133L-5	**6PPG9**
S-Series Hoods		
High-Durability Low-Lint Fabric with Integrated Suspension, White, Size S/M	S-533S	**5WZC7**
High-Durability Low-Lint Fabric with Integrated Suspension, White, Size M/L	S-533L	**5WZC6**
Polypropylene with Inner Collar and Reusable Suspension, White, Universal Size	S-655	**5WZD0**
Polypropylene with Double Shroud and Reusable Suspension, White, Universal Size	S-657	**5WZD1**
Kappler® Zytron® with Inner Collar and Reusable Suspension, Gray, Universal Size	S-855	**5WZE8**
Kappler® Zytron® with Double Shroud and Reusable Suspension, Gray, Universal Size	S-857	**5WZF0**
Painter's Polypropylene with Double Shroud and Reusable Suspension, White, Universal Size	S-757	**5WZD3**
S-Series Replacement Hoods Only		
Polypropylene Hood with Inner Collar, White, Universal Size, Pkg. of 10	S-605-10	**6PPH7**
Polypropylene with Double Shroud, White, Universal Size, Pkg. of 10	S-607-10	**6PPH8**
Painter's Polypropylene with Double Shroud, White, Universal Size, Pkg. of 10	S-707-10	**6PPH9**
Kappler® Zytron® with Inner Collar, Gray, Universal Size, Pkg. of 5	S-805-5	**6PPH5**
Kappler® Zytron® with Double Shroud, Gray, Universal Size Pkg. of 5	S-807-5	**6PPH6**
S-Series Lens Covers		
Hoods with Integrated Suspension, Size S/M, Pkg. of 10	S-920S	**5WZD5**
Hoods with Integrated Suspension, Size M/L, Pkg. of 10	S-920L	**5WZD4**
M- and S-Series Breathing Tubes		
Size S/M	BT-20S	**5WZA7**
Size M/L	BT-20L	**5WZA6**
Adjustable Length	BT-30	**11W054**
Heavy Duty Neoprene Rubber	BT-40	**11W055**
H-Series Hood and Accessories		
Hood Assembly with Collar, Hard Hat with 4-Pt. Pinlock Suspension, Chin Strap and Lens Cover, White, Standard Size	H-412	**4YG05**
Replacement Hood with Collar, White, Standard Size, Pkg. of 10	H-410-10	**4YG03**
Lens Covers, Pkg. of 10	H-110-10	**4YG02**
Breathing Tube	GVP-122	**5F787**
Speedglas™ L-SG Series Welding Headgear and Accessories		
Auto Darkening Filters (ADF) and Magnification Plates 9100V, Shades 5 and 8 to 13	06-0000-10	**4EFP2**
Auto Darkening Filters (ADF) and Magnification Plates 9100X, Shades 5 and 8 to 13	06-0000-20	**4EFN9**
Auto Darkening Filters (ADF) and Magnification Plates ADF 9100XX, Shades 5 and 8 to 13	06-0000-30	**4EFP1**
Supplied Air Control, Hoses, and Filtration		
V-Series Air Control Devices		
Vortex Cooling Assembly	V-100	**4YG10**
Vortemp™ Heating Assembly	V-200	**1AGB7**
Air Regulating Valve Assembly	V-300	**1AGD9**
Low-Pressure Connector Assembly	V-400	**3RNY2**
Supplied Air Hose—High Pressure		
25-ft. ⅜" I.D.	W-9435-25	**6AJ02**
50-ft. ⅜" I.D.	W-9435-50	**3AH20**
100-ft. ⅜" I.D.	W-9435-100	**6AT77**
Supplied Air Hose—Low Pressure		
50-ft. ½" I.D.	W-3020-50	**5F863**
100-ft. ½" I.D.	W-3020-100	**5F856**
Compressed Air Filter and Regulating Panel		
50 cfm @ 105 psi Max. Capacity	W-2806	**1BC35**

3M

Versaflo™ Painters Supplied Air Respirator Kit

Painter's supplied air respirator kit includes 11V993 (M-105) respiratory faceshield with lens covers, 4YG10 (V-100) Vortex Cooling Assembly, and 5WZA7 (BT-20L) Breathing Tube with cover. A high-pressure supplied air hose, sold separately on this page, is required to complete a NIOSH-approved system.

Description	Mfr. Model	Item No.
Painters SAR Kit	SA-100-PSK	**11W028**

11V243

3WUX1

3WXL1

23UA40

23UA42

2KJE8

ALLEGRO INDUSTRIES

SAR Headgear and Components

SAR HEADGEAR

Disposable Airline Hoods—Feature 1-pc. design with fully integrated breathing tube and head suspension. Hood adjusts easily with hook-and-loop closure and has an absorbent foam headband.

3WXJ7 and 11V243 are splash-resistant and seal in air flow. 3WXK2 laminated fabric with heat-sealed seams is made to offer zero permeability to air and moisture, and provide total protection against hazardous materials.

- NIOSH approved

Full-Facepiece Respirator and Helmets—Full-Facepiece Respirator is designed for high-pressure (150 psig) SAR systems, with a double-sealing flange for close fit. Adjustable belt holds the air flow valve and over-the-shoulder hose out of the way. High-impact, antifog, distortion-free polycarbonate lens.

Low-profile, lightweight Economy Air Shield Helmet has a quick-release suspension, flip-up visor, headband ratchet assembly, cotton neck shroud, and chin guard. The high-impact, antifog polycarbonate lens with antiscratch coating provides a wide field of distortion-free vision.

Deluxe models provide head, eye, face, and respiratory protection against hazardous airborne contaminants and flying debris in demanding industrial environments. Feature fire-retardant, coated fabric neck cape. Air Shield and Welding Helmet is made of glass-filled nylon with a variable-shade autodarkening lens, shade 9-13, good for all welding processes including TIG and TIG pulsing.

- Economy model meets ANSI Z87.1-2003
- Deluxe models meet ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

Description	Mfr. Model	Item No.
SAR Headgear		
Disposable Airline Hood Assemblies		
Tyvek® Hood with Single Bib and Suspension	9911-20	**3WXJ7**
Tyvek® Hood with Double Bib and Suspension	9911-10	**11V243**
Saran® Hood with Single Bib and Suspension	9911-20S	**3WXK2**
Full-Facepiece Respirator and Helmets		
Full-Facepiece Respirator	9902	**3WUX1**
Economy Air Shield Helmet	9903	**6UNP7**
Deluxe Air Shield Helmet	9904	**23UA39**
Deluxe Air Shield and Welding Helmet	9904-W	**23UA40**

SAR COMPONENTS

Air Flow Control Devices—Low Pressure Flow Adapter allows an LP SAR hood to connect to an ambient air pump or low-pressure air source. OBAC quick-connect design with belt and clip assembly.

High-Pressure controllers are for use with high-pressure SARs. Their low-profile design won't get in the way. Each has Hansen fittings with belt and clip assembly. Personal Air Cooler adjusts air flow up to 25° cooler than ambient. Air Temperature Controller adjusts air 25° warmer or cooler than ambient, and includes a leather sheath for protection from temperature extremes. Adjustable Flow Control Valve changes air flow for greater comfort.

Air Supply Hoses—Use low-pressure hoses with ambient air compressors and high-pressure hoses with supplied-air compressors.

Filtration Panels—3-stage filtration system removes water, oil, and particulate contaminants, and provides alerts for high levels of CO. Include pressure regulator with gauge, pressure relief valve, case and stand.

- Meet NIOSH requirements

Description	Mfr. Model	Item No.
SAR Components		
Low Pressure		
Air Flow Adapter	9910-11	**3WXK6**
High Pressure		
Personal Air Cooler	9991	**3WXL5**
Air Temperature Controller	9990	**3WXL9**
Adjustable Flow Control Valve	9992	**3WXL1**
Low-Pressure Air Supply Hoses		
25-ft. Hose, 3/8" I.D.	9100-25	**23UA41**
50-ft. Hose with 3/8" I.D.	9100-50	**3WXN4**
100-ft. Hose with 3/8" I.D.	9100-100	**3WXD8**
High-Pressure Air Supply Hoses		
25-ft. Hose, 3/8" I.D.	9101-25B	**23UA42**
50-ft. Hose with 3/8" I.D.	9101-50B	**3WXN8**
100-ft. Hose with 3/8" I.D.	9101-100B	**11V244**
Filtration Panels		
60 cfm, 150 psi, 5 Person Filtration Panel	9875	**2KJE7**
100 cfm, 150 psi, 8 Person Filtration Panel	9878	**2KJE8**
Replacement Filter Kit for 2KJE7	9872-50	**2KJE9**
Replacement Filter Kit for 2KJE8	9878-50	**2KJF1**

ALLEGRO INDUSTRIES

Portable Ambient Air Compressors

Lightweight, suited for a variety of work environments, and easily meet portable air requirements.

Description	CFM	HP	Voltage	Amps	Mfr. Model	Item No.
1 Person with Mask	5	¼	115 V AC, 230 V AC	4.6 AC	9806 OBAC	**8UKR8**
2 People with Masks or 1 Person with Hood	10	¾	115 V AC, 230 V AC	9.05 AC	9821 OBAC	**9AAV3**
3 People with Masks or 2 People with Hoods	20	1 ½	115 V AC, 230 V AC	12.4 AC	9832 OBAC	**8A689**

3AJ96

3NRD6

2AK34

6AC11

6KXV7

6AM36

38NF66

Bullard

SAR Respirator Assemblies and Components

SUPPLIED AIR RESPIRATORY (SAR) HEADGEAR

CC20 Respirator Hoods—Hoods deliver continuous airflow and protect face, head, and neck. Provide excellent peripheral vision through 6" x 17" facepiece.

Note: To build a complete Bullard® supplied air system, choose 1 each from the following groups: respirator hoods and breathing tube assemblies for use with a breathing air compressor or free-air ambient pump.

88VX Abrasive Blasting Helmet Respirator Assembly—Respirator has a lightweight inner shell with an adjustable headband and wide-angle facepiece. Assembly includes a helmet, cape, ¼" industrial interchange fittings, breathing tube, airflow control, belt, inner/outer lens, and 5 Mylar® lens covers.

- NIOSH approved
- Facepiece meets ANSI/ISEA Z87.1-2010
- Head protection meets ANSI/ISEA Z89.1-2014

Note: For use with breathing air compressors.

BREATHING TUBE ASSEMBLIES

Control the flow of air into the respirator.

SUPPLIED AIR RESPIRATORY (SAR) COMPONENTS

Climate Control Tube—Control the temperature of air delivered to the respirator.

Air Supply Hoses—For use with breathing air compressors and have ⅜" I.D. Starter hose has ¼" female coupler and ¼" male fitting. Air supply hose for use with free-air ambient pumps. Hose has ½" female coupler and ½" male fitting.

41 Series Airline Filter—7-stage filtration system with 6 layers of filtration to remove water, oil, odors, and particulates. Includes 2 outlets with pressure gauge, relief valve, and pressure regulator. Can be used with other compressor safeguards to provide clean air to airline respirators.

CO Monitor—Displays the CO concentration with audible alarm when high CO levels are present. Includes remote alarm connection devices and connection kit for Airline Filter 6AM36 and any compressed breathing air source.

- Operates on 110/220VAC or 12VDC

Grade-D Breathing Air Filtration and CO Monitors—Portable Clean Air Box (CAB) system provides 3-stage filtration and carbon monoxide (CO) monitoring. Filters remove oil, water, particulates, oil vapor, and odors. Independent regulators provide proper airflow to each user. CO monitor features remote-capable, high-intensity 90dB alarm with strobe; internal and external visual display; and 90-sec. auto calibration. Powered by 110VAC or 8 AA batteries. Housed in a rugged polycarbonate Pelican® case that withstands harsh work environments.

Description	Mfr. Model	Item No.
SAR Headgear		
CC20 Respirator Hoods (Suspension Sold Separately)		
Tychem® QC Hood, Basic	20TJN	**6AT82**
Tychem® QC Hood, Inner Bib Style	20TICN	**6AG91**
Tychem® QC Hood, Inner Bib Style For Use with Hard Hat	20TICH	**3AJ96**
CC20 Hood Suspensions		
Headband with Rear Slide Adjustment for Respirator Hoods 6AT92 and 6AG91	20TG	**5AC89**
Headband with Sure-Lock® Ratchet Adjustment for Respirator Hoods 6AT82 and 6AG91	20RT	**6AG89**
CC20 Hood Lens Covers		
Mylar® Lens Covers, Pkg. of 25	20LCL	**1AAK3**
88VX Abrasive Blasting Helmet Respirator Assembly		
With 28" Nylon Cape	88VX3230	**3NRD6**
88VX Abrasive Blasting Helmet Accessories		
28" Nylon Cape	46VX	**5AF35**
38" Nylon Cape	13VX	**6AV30**
Tritan™ Inner Lens, Pkg. of 10	MP771B	**6KXV6**
Tritan™ Outer Lens, Pkg. of 25	MP771020	**6KXV5**
Breathing Tube Assemblies		
Constant Airflow For Use with Breathing Air Compressor	V30	**2AK34**
Adjustable Airflow For Use with Breathing Air Compressor	V40	**6AL49**
Constant Airflow For Use with Free-Air Ambient Pumps	V35	**5AK99**
SAR Components		
Climate Control Tube		
Cool Tube For Use with Breathing Air Compressors	AC1000	**6AC11**
Heat/Cool Tube For Use with Breathing Air Compressor	HC2400	**6AX08**
Air Supply Hoses For Use with Breathing Air Compressors		
V5 Series, Nylon, Coiled, 50 ft.	V55030	**6AW41**
V10 Series, Rubber, 50 ft.	469650	**6KXV7**
Air Supply Hose For Use with Free-Air Ambient Pumps		
V20 Series, Rubber, 50 ft.	V2050ST	**6AV02**
41 Series Airline Filters and Replacement Cartridge		
Floor Mount Airline Filter	41P2	**6AM36**
Wall Mount Airline Filter	41P2WM	**38NF64**
Replacement Filter Cartridge for 41 Series Airline Filters	41AF	**2AL06**
CO Monitor		
For Use with Any Compressed Air Breathing Air Source	COHP	**2MWK9**
Grade-D Breathing Air Filtration and CO Monitors		
30 CFM, 125 psi, 2 Person	CAB30IRHA	**38NF66**
50 CFM, 125 psi, 4 Person	CAB50IRHA	**38NF67**
100 CFM, 125 psi, 8 person	CAB100IRHA	**38NF65**

3AM92

38NF68

Bullard

Portable Ambient Air Compressors

Portable Free-Air® pumps can quickly and easily supply breathable air. Transfer ambient air from a clean air location to a supplied air respirator.

3AM92 and 6AH13 feature Carbofine outlet filter. Medium-efficiency inlet filter keeps particulates larger than 25 microns out of the air supply. Monitors, calibrators, and airline filters are not required.

38NF68 includes wheel kit, roll cage, inlet filters, and pressure gauge.

For Use With	CFM	HP	Voltage	Amps	Mfr. Model	Item No.
2 People in Masks or 1 Person in Hood or Helmet	10	¾	115 V AC	10.2 AC	EDP10	**3AM92**
3 People in Masks or 2 People in Hood or Helmet	10	1 ½	115 V AC, 208 V AC, 230 V AC	16, 8 AC	EDP16TE	**6AH13**
1 Person in Mask or Hood	8	2	115	19	ICEPUMP11	**38NF68**

Supplied Air Respiratory (SAR) Packaged Systems and Airline Assemblies

Honeywell NORTH

- NIOSH approved

SAR Packaged Systems—Kits include everything needed to set up an airline system. The rotary vane air pump supplies breathable air from a clean-air environment. Breathing tube for all systems is located behind the back to keep it out of the way.

Packages with facepiece respirators include one or two Honeywell North 7600 full-facepiece or 7700 half-facepiece mask(s) made of 100% silicone. Packages with hood respirators include a Primair™ 100 Series hood with cotton neck seal for comfort; great for users with facial hair or when fit testing is not practical.

1-person systems have a ¾-HP pump and 50-ft. breathing hose. 2-person systems have a 1½-HP pump and 2 50-ft. breathing hoses.

Supplied Airline Assemblies—16M255 converts Honeywell North full-facepiece respirators (7600, RU6500, 5400) or half-facepiece respirators (7700, RU8500, 5500) into a SAR through the cartridge connection port; expanding the use of existing respirators helps eliminate additional fit test requirements.

16M253 and 16M254 are compatible with all Primair™ series hoods. 16M254 includes a PVC belt for easy decon cleaning.

16M243

Description	Mfr. Model	Item No.
SAR Packaged Systems		
1-Person, 7700 Series Half-Facepiece	APPC	**16M245**
1-Person, 7600 Series Full-Facepiece	APPA	**16M243**
2-Person, 7600 Series Full-Facepiece	APPF	**16M246**
1-Person, Primair™ Hood	APPB	**16M244**
2-Person, Primair™ Hood	APPG	**16M247**
Supplied Airline Assemblies		
Use with Honeywell North® Facepiece Respirators	CF2007	**16M255**
Use with Primair™ Hoods	CF1001	**16M253**
Use with Primair™ Hoods	CF1001D	**16M254**

Supplied Air Respiratory (SAR) Packaged Systems

ALLEGRO INDUSTRIES

- NIOSH approved

AIR SHIELD SARS

Provide clean, continuous air flow for personal protection. Low-profile, lightweight air shield/helmet has quick-release suspension and antifog polycarbonate lens. Each system includes shield/helmet(s), ambient air pump, and 50-ft. breathing hose. 1-person systems have a ¾-HP pump and 1 shield. 2-person systems have a 1½-HP pump and 2 shields. Models with welding helmet have an autodarkening filter good for all welding processes including TIG and TIG pulsing.

Economy—Offer protection in body repair, chipping, grinding, and spray painting applications. Replaceable high-impact lens with antiscratch coating provides a wide field of distortion-free vision. Feature flip-up visor, headband ratchet assembly, cotton neck shroud, and chin guard. Welding helmets are made of thermoplastic resin with a shade 10 polycarbonate plate.

- Meet ANSI Z87.1-2003

Deluxe—Provide head, eye, face, and respiratory protection against hazardous airborne contaminants and flying debris in demanding industrial manufacturing environments. Feature fire-retardant, coated fabric neck cape. Welding helmets are made of glass-filled nylon with a variable-shade autodarkening lens, shade 9-13.

- Meet ANSI Z89.1 Type 1 Class G for head protection, Z87.1+ for faceshield/eye protection

ABRASIVE BLAST HELMET SAR

- Facepiece meets ANSI Z87.1

Nova 2000™ helmet features large wraparound lens for optimal vision and sound-deadening foam padding. System provides a portable air source with even air flow for 1 user and includes helmet, ¾-HP pump, and 50-ft. air hose.

Economy SAR
6UNP5

Deluxe Welding Helmet SAR
23UA37

Abrasive Blast Helmet SAR
9LHY7

Description	Mfr. Model	Item No.
Economy SARs		
Air Shields		
1-Person	9245-01	**6UNP5**
2-Person	9245-02	**6UNP6**
Deluxe SARs		
1-Person	9247-01	**23UA35**
2-Person	9247-02	**23UA36**
Welding Helmets		
1-Person	9248-01	**23UA37**
2-Person	9248-02	**23UA38**
Abrasive Blast Helmet SAR		
1-Person	9285-01	**9LHY7**

4AFU6

MSA
The Safety Company

AirHawk II SCBA

- NIOSH approved

SCBAs include medium-size Advantage® 4000 series silicone full-facepiece with 4-pt. head harness, molded polycarbonate lens, cylinder, end-of-service time indicator, pressure regulator, carrier, harness, and belt. Backplate contours are designed for lumbar support and spine relief.

Cylinder Material	Duration	PSI	Mfr. Model	Item No.
AirHawk® II SCBA				
Aluminum	30 min	2,216	10095804	**4AFU6**
Carbon Fiber	30 min	2,216	10095806	**4AFU7**
Replacement Cylinders				
Carbon Fiber	30 min	2216	807586-SP	**2YRE5**
Aluminum	30 min	2216	809872-SP	**2YRE6**
Carbon Fiber	30 min	4500	10127944-SP	**2YRE7**
Carbon Fiber	45 min.	4500	807570-SP	**8DGX8**
Carbon Fiber	60 min	4500	10127946-SP	**2YRE8**

14H450

Replacement Cylinder 16N403

Honeywell

Cougar SCBAs

- NIOSH approved

Feature a first-stage regulator with minimal moving parts and a low-profile second-stage regulator with first-breath-on activation. Mighty-Light® backpack provides a stable, secure fit and enables quick cylinder changes.

Designed for industrial users who need protection against environments that are immediately dangerous to life or health (IDLH). Include silicone rubber TwentyTwenty® Plus medium facepiece with 5-strap harness and skirt and easily removable exhalation valve, plus cylinder and bell low-air alarm.

Cylinder Material	Duration	PSI	Mfr. Model	Item No.
Cougar™				
Aluminum	30 min	2,216	888888	**14H450**
Replacement Cylinders				
Aluminum	30 min	2216	915140	**16N402**
Carbon	60 min	4500	917160	**16N403**

1AAK9

Honeywell
NORTH

Mouthbit Emergency Escape Respirators

Designed for emergency escape from non-IDLH contaminated atmospheres. The optional Carrying Bag 1AAL1 has belt loops so you can keep your respirator close at hand for quick access.

Description	Used For	Mfr. Model	Item No.
Escape Respirators	Acid Gas	7902	**4GM24**
	Ammonia	7904	**1AAK9**
Carrying Bag		79BAG	**1AAL1**

Honeywell
NORTH

1LYP1

CBRN Emergency Escape Hood

Clear polyurethane lens and hood with neck seal, dual cartridges, and thermo-plastic elastomeric mask. NIOSH approved CAP 2 for minimum of 30 minutes of protection for escape from non-IDLH atmospheres. Universal size.

Description	Mfr. Model	Item No.
CBRN Emergency Escape Respirator Hood	ER2000CBRN	**1LYP1**
Carrying Bag	ERBAG	**1LYP2**
Training Kit Includes (2) Cartridge Labels and Instructions	ERTRAIN	**1LYN9**

MSA
The Safety Company

Emergency Breathing Apparatus

- NIOSH approved

TransAire® units include a filled aluminum cylinder, yellow nylon carrier, 30" black rubber hood tube, and universal-size clear polyurethane tube assembly.

Escape Duration (min.)	Flow Rate	PSI	Mfr. Model	Item No.
5 min	40 lpm	2,216	10008292	**1DKR8**
10 min	40 lpm	3,000	10008293	**1DKR9**

Respiratory Equipment Storage

ALLEGRO INDUSTRIES

SCBA Wall Cabinets—Corrosion-resistant ABS construction cabinets protect respirators from harsh elements. Include viewing window, adjustable shelf, and an SCBA cylinder bracket. 2GWL5 does not include mounting hardware. 5LGH9 includes 2 universal mounting brackets.

SCBA Brackets—Mount to wall and allow easy access to SCBA.

EBA Storage Cabinet—Lightweight wall case is designed to hold up to two 5- or 10-min. EBAs and protect equipment from dust, moisture, and plant environments. Corner mountable.

PAPR Storage Case—Keeps PAPRs contaminant-free; can be stored without disassembling breathing tube. 2 windows allow quick identification of contents. Pass-through allows PAPR to charge while stored.

2GWL5

5LGH9

3NPZ3

5LGJ0

1ECB7

Description	Dim. (H x W x D)	Color	Mfr. Model	Item No.
SCBA Wall Cabinet, Holds 1 SCBA	32½" x 20" x13"	Black/Yellow	4100	**2GWL5**
SCBA Wall Cabinet, Holds 2 SCBAs	32" x 34" x 14"	Green	4350	**5LGH9**
SCBA Bracket Fits 30-min. HP	27" x 12" x 12"	Yellow	4111-05	**3NPZ3**
SCBA Bracket Fits 30-min. LP and 45-min HP	27" x 12" x 12"	Yellow	4111-06	**3NPZ4**
SCBA Bracket Fits 60-min. HP	27" x 12" x 12"	Yellow	4111-07	**3NPZ5**
EBA Storage Cabinet	21" x 14" x 10"	Green	4550	**5LGJ0**
PAPR Storage Case	32½" x 20" x 13"	Black/Yellow	4100-P	**1ECB7**

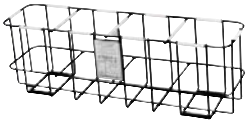
Honeywell NORTH

AC4000 Air Cylinder Carts

415H98

Easy-to-maneuver carts have a lightweight aluminum frame and can transport 2 high-pressure or 2 low-pressure air cylinders. Help provide a continuous supply of breathing air for up to 4 users. Models feature dual hose hangers for organized airline storage, a low pressure alarm, whistle alarm, and a telescopic handle.

Description	Overall Dim.	Mfr. Model	Item No.
Air Cart with Hansen Fittings	21 in L x 17½	400010H	**415H98**
Air Cart with Schrader Fittings	in W x 36 in D	400010S	**415H99**


4EDZ8

Air Cylinder Carts and Storage Rack

AIR SYSTEMS INTERNATIONAL

Air Cylinder Carts—Feature low-pressure alarm, adjustable pressure regulator, cylinder whips with check valves, rear hose rack, and 4 cylinder straps. Constructed of black powder-coated steel with fold-down handle for storage and 8" semi-pneumatic tires. 4EDZ4 includes CGA-346/347 universal cylinder connections with hand-tight knobs. 4EDZ5 includes CGA-346 wrench-tight cylinder connections.

Air Cylinder Storage Rack—Powder-coated steel wire rack holds any size cylinder up to 7¾" dia.

4EDZ5

Description	Mfr. Model	Item No.
Air Cylinder Carts		
Holds (2) 60-min. High-Pressure, 4500 psi Cylinders	MP-4H	**4EDZ4**
Holds (2) 30-min. Low-Pressure, 2400 psi Cylinders	MP-2L	**4EDZ5**
Air Cylinder Storage Rack		
Holds 4 Cylinders	TR-4	**4EDZ8**

Condor WESTWARD

PPE Gear and Duffel Bags

Lightweight bags store and transport respiratory and fall-protection equipment and other gear. Polyester fabric resists shrinking, stretching, and mildew.

25F568

25F571

25F579

25F577

25F575

Description	Dim./Cap.	Color	Brand	Item No.
Respirator Storage Bags with Hook-in-Loop Closure				
Waist Pack	6"H x 7¼"W x 3½"D	Black	Condor	**25F568**
Gear Bag with Belt Loop	6¾ in H x 9 in W x 3½ in D	Black	Condor	**25F570**
Gear Bag with Belt Loop	8¼ in H x 10 in W x 4⅛ in D	Black	Condor	**25F569**
Gear Bag with Belt Loop	10 in H x 9½ in W x 4¼ in D	Black	Condor	**25F571**
Gear Bags with Drawstring Closure				
Unlined with Web Handle	950 cu. in.	Black	Westward	**25F579**
Fleece-Lined with Spring Loaded Clasp	650 cu. in.	Red	Condor	**25F567**
Gear Bags with Zipper Closure				
Adjustable Shoulder Strap and 2 Ventilated Side Pockets	1440 cu. in.	Black/Red/Silver	Westward	**25F577**
Duffel Bags with Zipper Closure				
Removable Shoulder Strap	2600 cu. in.	Black	Westward	**25F573**
Removable Shoulder Strap	6300 cu. in.	Red	Westward	**25F575**

4JG31

3PPN5

Qualitative Fit Test Kits for Half- and Full-Facepiece Respirators

3M™—Use with any particulate or gas/vapor respirator with particulate filters. Kits include: hood and collar assembly, 2 nebulizers with replacement inserts, sensitivity solution, and fit test solution. Saccharin Kit No. 1CD47 adds an order form for additional training materials and carrying case.

Note: Must use particulate filters on gas/vapor respirators during fit tests.

Allegro®—Kits 3PPN5 and 3PRG2 include: polycoated hood, 2 nebulizers, sensitivity and fit test solutions, and instructions. Kit 8ZAA8 includes: 6 irritant smoke tubes, aspirator bulb, smoke tube opener, and carrying pouch. Kit 3PRF9 includes: smoke fit tube pump, 6 smoke tubes, and instructions. Kit 3PRF6 includes: fit test tent, jars, testing solution, paper towels, disposable bags, and storage case.

Honeywell North—Kit 4GM20 requires use of P100 filter. Includes: 6 smoke tubes, smoke tube bulb, tube breaker, 20 refresher wipe pads, and a training video. Kit 5T388 requires respirators equipped with organic vapor cartridge. Includes: 2 vials and a test enclosure.

MSA®—Kits include: test hood, 2 nebulizers with replacement inserts, sensitivity solution, fit test solution, and a training video.

Description	Mfr. Model	Item No.
Fit Test Kits		
3M™		
Bitrex	FT-30	**4JG31**
Saccharin	FT-10	**1CD80**
Saccharin with Carrying Case	FT-20	**1CD47**
Allegro®		
Bitrex	2041	**3PRG2**
Saccharin	2040	**3PPN5**
Irritant Smoke, Standard	2050	**8ZAA8**
Irritant Smoke, Deluxe	2055	**3PRF9**
Isoamyl Acetate	0202	**3PRF6**
Honeywell		
Irritant Smoke, Deluxe	770040	**4GM20**
Isoamyl Acetate	193140	**5T388**
MSA®		
Saccharin	697287	**4LR26**
Bitrex	697444	**10X309**

Description	Mfr. Model	Item No.
Replacement Components and Accessories		
3M™		
Bitrex, 55mL	FT-32	**1UKH7**
Bitrex (Sensitivity), 55mL	FT-31	**1UKH6**
Saccharin, 55mL	FT-12	**1UKH5**
Saccharin (Sensitivity), 55mL	FT-11	**1UKH4**
Allegro®		
Saccharin (Test), 2.5mL, Pkg. of 6	2040-12K	**3PPN6**
Saccharin (Sensitivity), 2.5mL, Pkg. of 6	2040-11K	**3PPN7**
Bitrex (Test), 2.5mL, Pkg. of 6	2041-12K	**3PRG3**
Bitrex (Sensitivity), 2.5mL, Pkg. of 6	2041-11K	**3PRG4**
Fit Check Ampules, Pkg. of 10	0201	**3PPR1**
Honeywell		
Irritant Smoke, Pkg. of 10	770046	**16M258**
MSA®		
Adapter for Advantage® Series	10056424	**5KB72**

Respirator Storage Bags

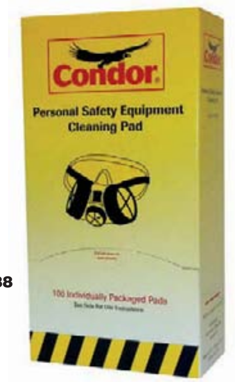
Protect respirators from contaminants. Reusable.

Description	Item No.
PVC Storage Bag, 16" x 14"	**30E982**

Paint Spray Sock

Stretch knit material covers head to protect from overspray.

Size	Item No.	Pkg. Qty.
Universal	**46W162**	12



22PN88

9ACT3

Respirator Cleaning Accessories

Respirator Cleaning Wipes—Individually wrapped towelettes are a quick and easy way to clean facepiece respirators.

Respirator Cleaning Kits—Kit 3NPY5 contains ninety ½-oz. packets of water soluble cleaner, air bulb, bucket, brush, and 100 sterile storage bags and seals. Kit 6UNR1 has the same features as 3NPY5 with the addition of a concentrated, EPA-registered 1-gal. liquid disinfectant soap.

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Respirator Cleaning Wipes				
5 in x 8 in Wipe	Condor	—	**22PN88**	100
5 in x 8 in Wipe, Alcohol-Free	Condor	—	**22PN89**	100
5 in x 7 in Wipe	Honeywell	7003	**4T555**	100
8 in x 10 in Wipe, Alcohol-Free	3M	504	**1CD51**	100
Respirator Cleaning Kits and Components				
Water Soluble Cleaner Packet Kit	Allegro	4001	**3NPY5**	1
Liquid Cleaner Concentrate Kit	Allegro	4002	**6UNR1**	1
Replacement Water Soluble Cleaner Packets, ½ oz. for 3NPY5	Allegro	4001-02	**9ACT3**	90

About Gloves and Glove Sizing

ABOUT DISPOSABLE GLOVES

Disposable gloves create a barrier to keep hands clean and protected, while keeping oils and dirt on the hands from transferring to objects being handled. Intended for single use, they are typically thrown away after each task. Thinner gloves offer higher dexterity and better touch sensitivity, while thicker gloves offer more protection for hands and bettter durability. Texturing helps to improve grip, especially when handling wet or slippery items.

Powdered gloves have a light coating of powder inside the glove to help absorb moisture and make it easier to don or remove gloves. Powder-free gloves reduce the risk of particulate cross-contamination.

Acceptable quality level (AQL) is a numeric rating of a glove's barrier quality. The lower the number, the less chance that gloves will have pinholes or imperfections, providing increased worker safety. An AQL of 1.5 is a common choice for general healthcare applications while AQLs lower than 1.0 are preferred for laboratory work.

GLOVE SIZING CHART

To determine glove size, measure the the distance around the palm of the hand at the knuckles. Look up the measurement (in inches) in the chart to determine the corresponding size.

Palm Size (in):	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
Size:	XS	S	M	L	XL	2XL
Other Sizes:	Women's		Men's			
			Universal			
			One Size Fits Most			
					Jumbo	

Disposable Glove Materials

Nitrile gloves are latex-free and provide high resistance to puncture, tearing, and abrasion, as well as good chemical resistance. They are generally thinner and more tactile than vinyl gloves.

Natural rubber latex gloves provide high elasticity and dexterity, exceptional grip in wet and dry applications, and good resistance against rips and tears. They can cause allergic reactions in some people.

Neoprene gloves are resistant to chemical splash, provide a good grip when wet, and stay flexible across a range of temperatures. They are more comfortable than nitrile gloves and less comfortable than latex and polyisoprene.

Vinyl gloves are latex-free and are generally for frequent, short-term use in everyday applications. They have a looser fit and provide less protection against chemicals, tears, and abrasion than latex gloves.

Polyisoprene gloves are formfitting and have high tactile sensitivity, making them a good choice for picking up small items. They are latex-free and resist tears, punctures, and abrasion.

Polyethylene gloves (sometimes called sandwich gloves) are made of thin, clear, lightweight plastic and are intended for frequent, short-term use.

J4950

D1805

General Purpose Disposable Gloves

Use for everyday tasks such as inspection, cleaning, handling parts, and general maintenance tasks. Offer excellent dexterity and sensitivity while protecting hands and objects from contamination. D1814 features a thin flocked lining that absorbs moisture to keep hands dry and comfortable.

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Length	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Natural Rubber Latex								
Powdered								
4 mil	Smooth	4	Beige	9 ½ in	S, M, L, XL	Condor	**J4950**	100
4 mil	Smooth	4	Green	9 ½ in	S, M, L, XL	Condor	**J4951**	100
Nitrile								
Powder-Free								
3.15 mil	Full	4	Blue	9 ½ in	S, M, L, XL, 2XL, XS	Condor	**D1805**	100
3.5 mil	Fingertips	4	Fluorescent Green	9 ½ in	S, M, L	Condor	**J4957**	100
3.5 mil	Fingertips	—	Fluorescent Green	9 ½ in	XL, 2XL	Condor	**J4957**	100
4 mil	Fingertips	4	Blue	9 ½ in	S, M, L, XL	Condor	**H4568**	100
4.5 mil	Full	4	Blue	9 ½ in	S, M, L, XL	Condor	**D1807**	100
5.5 mil	Full	4	Black	12 in	S, M, L, XL	Condor	**H4565**	50
7 mil	Full	4	Blue	12 in	S, M, L, XL, 2XL	Condor	**J4869**	50
8.3 mil	Full	2.5	Green	10 ½ in	S, M, L, XL, 2XL	Microflex	**D1814**	50
Powdered								
3.9 mil	Fingertips	4	Blue	9 ½ in	S, M, L, XL	Microflex	**J5048**	100
3.9 mil	Fingertips	4	Blue	9 ½ in	2XL	Microflex	**J5048**	90
Vinyl								
Powder-Free								
2.7 mil	Smooth	4	Blue	9 in	S, M, L, XL	Condor	**H3928**	100
2.7 mil	Smooth	4	Clear	9 in	XL, L, M, S	Condor	**D1856**	100
2.8 mil	Smooth	4	Blue	9 ½ in	S	Microflex	**K2960**	100
5 mil	Smooth	4	Clear	10 ¼ in, 9 ½ in	L, M, S, XL	Mcr Safety	**J4964**	100
5 mil	Smooth	4	Clear	9 ½ in	M, L, XL, S	Showa	**J2538**	100
5 mil	Smooth	4	Green	9 in	S, M, L, XL	Condor	**D1862**	100
Powdered								
2.7 mil	Smooth	4	Blue	9 in	S, M, L, XL	Condor	**H3927**	100
2.7 mil	Smooth	4	Clear	9 in	XL, L, M, S	Condor	**D1851**	100

J4957

D1851

Find more information about gloves and glove sizing on page 1687.

D1847

D1806

D8397

D1811

D1863

Food-Grade Disposable Gloves

- Powder-free

FDA approved for use by food service workers, food handlers, or others who come into contact with food.

Palm Thickness	Finger Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Length	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Natural Rubber Latex									
General Purpose									
4.5 mil	5 mil	Full	4	Beige	9 ½ in	S, M, L, XL	Condor	**D1847**	100
Nitrile									
Ergonomic									
4 mil	4 mil	Full	1.5	Blue	9 ½ in	S, M, L, XL, 2XL, XS	Showa	**D1806**	100
General Purpose									
3.9 mil	4.7 mil	Full	4	Blue	9 ½ in	S, M, L, XL	Microflex	**D8397**	100
Hazardous Splash Protection									
4.3 mil	5 mil	Fingertips	4	Blue	9 ½ in	S, M, L, XL	Touchntuff	**D1809**	100
High Strength									
4 mil	4 mil	Smooth	1.5	Blue	9 ½ in	S, M, L, XL	Showa	**D1824**	100
High Strength and Hazardous Splash Protection									
4.7 mil	5 mil	Smooth	4	Green	9 ½ in	S, M, L, XL	Touchntuff	**D1811**	100
Polyethylene									
General Purpose									
0.4 mil	0.4 mil	Full	4	Clear	8 ¼ in, 8 ¾ in, 10 ¼ in, 11 in	S, M, L, XL	Mcr Safety	**D1863**	500
Vinyl									
General Purpose									
2.7 mil	4 mil	Smooth	4	Clear	9 in	XL, L, M, S	Condor	**D1856**	100
2.8 mil	3 mil	Smooth	6.5	Clear	9 in	S, M, L, XL	Duratouch	**D1858**	100

Find more information about gloves and glove sizing on page 1687.

D1817

J4870

D8392

J2284

J4866

MICROFLEX® Condor Ansell

Medical-Grade Disposable Gloves

- Powder-free
- Non-sterile, except J2284 is sterile

Offer excellent tactile sensitivity while protecting workers from biohazards and reducing risk of contamination. Low AQL ratings indicate less likelihood of pinholes or imperfections for increased worker safety in medical settings. D1841 and D1822 feature an aloe-coated moisturizing inner surface to protect hands from drying and chapping.

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Length	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Nitrile								
2.4 mil	Fingertips	—	Pink	9 ½ in	XS, S, M, L, XL	Micro-Touch Nitrile	**J5102**	100
3.15 mil	Full	1.5	Blue	9 ½ in	S, M, L, XL	Condor	**D1815**	100
3.5 mil	Fingertips	1.5	Fluorescent Green	9 ½ in	S, M, L, XL, 2XL	Condor	**J4955**	100
3.5 mil	Fingertips	1.5	Black	9 ½ in	S, M, L, XL, 2XL	Ansell	**D1817**	100
3.9 mil	Full	1.5	Blue	9 ½ in	XS, S, M, L, XL	Ansell	**D1816**	100
3.9 mil	Full	1.5	Green	9 ½ in	XS, S, M, L, XL	Ansell	**D1841**	100
5.1 mil	Fingertips	1.5	Orange	10 ½ in	S, M, L, XL, 2XL	Ansell	**D1818**	100
5.1 mil	Full	1.5	Green	9 ½ in	S, M, L, XL, 2XL	Ansell	**D1822**	100
5.9 mil	Full	1.5	Green	11 ¾ in	S, M, L, XL	Ansell	**D1839**	50
6.7 mil	Full	1.5	Blue	9 ½ in	S, M, L, XL, 2XL	Ansell	**D1819**	50
7.8 mil	Full	1.5	Blue	11 ½ in	S, M, L, XL, 2XL	Ansell	**D1821**	50
7 mil	Full	1.5	Blue	12 in	S, M, L, XL, 2XL	Condor	**J4870**	50
Natural Rubber Latex								
4.7 mil	Fingertips	1.5	Beige	9 ½ in	S, M, L, XL	Ansell	**D1828**	100
4 mil	Full	1.5	Beige	9 ½ in	S, M, L, XL	Condor	**D5744**	100
5.1 mil	Fingertips	1.5	Beige	9 ½ in	XS, S, M, L, XL	Ansell	**D8392**	100
5.1 mil	Fingertips	1.5	Beige	9 ½ in	XS, L, M, S, XL	Microflex	**F0646**	100
5.5 mil	Full	1.5	Beige	9 ½ in	XS, S, M, L, XL	Ansell	**D1832**	100
5.9 mil	Full	1.5	Pink	9 ½ in	XS, S, M, L	Ansell	**D9293**	100
6.3 mil	Fingertips	1.5	Beige	9 ½ in	XS, S, M, L, XL	Ansell	**D1831**	100
9.8 mil	Fingertips	1.5	Beige	12 in	S, M, L, XL	Ansell	**D1833**	50
9.8 mil	Full	1.5	Blue	11 ½ in	S, M, L, XL	Ansell	**D8391**	50
11 mil	Fingertips	1.5	Blue	11 ½ in	S, M, L, XL	Ansell	**D1834**	50
Neoprene								
5.9 mil	Smooth	0.6	Cream	11 ½ in	5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9	Ansell	**J2284**	200
5.91 mil	Smooth	0.6	Cream	11 ½ in	5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9	Ansell	**J2285**	200
Vinyl								
3.1 mil	Smooth	1.5	White	9 in	S, M, L, XL	Condor	**J4866**	100

Find more information about gloves and glove sizing on page 1687.

H3372

D1491

H3485

Ansell

Cleanroom Disposable Gloves

- Powder-free

ISO- and FED STD 209E-rated for use in cleanrooms and controlled environments. Processed to kill microorganisms and reduce the risk of contamination and infection.

Palm Thickness	Texture Location	Acceptable Quality Level (AQL)	Color	Length	▶CHOOSE: Size	Item No.	Pkg. Qty.
Natural Rubber Latex							
5.1 mil	Fingertips	1.5	Beige	11 ½ in	XS, S, M, L, XL	**H3372**	1000
6.69 mil	Full	0.6	Beige	12 in	6, 6.5, 7, 7.5, 8, 8.5, 9, 10	**K2617**	200
6.69 mil	Full	1.5	Beige	16 in	S, M, L, XL	**K2618**	200
6.69 mil	Full	1.5	Beige	12 in	5, 6, 7, 8	**K2620**	200
7.1 mil	Full	1.5	Beige	24 in	6.5, 7, 7.5, 8, 8.5, 9, 6, 10	**K2619**	100
Neoprene							
3.94 mil	Fingertips	0.6	Green	12 in	6.5, 7.5, 8.5, 9, 10, 5.5	**K2621**	200
3.94 mil	Fingertips	0.6	Green	12 in	M, L, XL, 2XL, XS, S	**K2613**	1000
Nitrile							
3.9 mil	Smooth	2.5	White	12 in	XS, S, M, L, XL	**D1491**	100
3.94 mil	Full	0.6	White	16 in	S, M, L, XL, 2XL	**K2615**	1000
3.94 mil	Full	1.5	Green	12 in	XS, S, M, L, XL, 2XL	**K2616**	1000
4.3 mil	Fingertips	1.5	Off-White	12 in	5.5, 6.5, 7.5, 8.5, 9.5, 10.5	**D1492**	100
4.33 mil	Fingertips	1.5	White	12 in	XS, S, M, L, XL, 2XL	**K2614**	1000
Polyisoprene							
8.3 mil	Smooth	0.6	White	11 ½ in	5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9	**H3485**	200

5EME0

REMCO PRODUCTS · superiorglove · Condor · MCR SAFETY · Ansell

Liquid-Resistant Disposable Sleeves

Designed to resist water, fat, grease, and chemical splash. Use in food processing applications, for transferring liquids and solids, cleaning, and pharmaceutical applications.

Sleeve Material	Sleeve Length	Thickness	Color	Brand	Item No.	Pkg. Qty.
Color-Coded for Food Processing						
Polyurethane	18 in	6 mil	Green	Top Dog	**279D86**	1
Polyurethane	18 in	6 mil	Blue	Top Dog	**279D87**	1
Polyurethane	18 in	6 mil	Red	Top Dog	**279D88**	1
Polyurethane	18 in	6 mil	White	Top Dog	**279D89**	1
Polyurethane	18 in	6 mil	Yellow	Top Dog	**279D90**	1
Polyurethane	21 in	6 mil	Blue	Top Dog	**279D92**	1
Polyurethane	21 in	6 mil	Green	Top Dog	**279D91**	1
Polyurethane	21 in	6 mil	Red	Top Dog	**279D93**	1
Polyurethane	21 in	6 mil	White	Top Dog	**279D94**	1
Polyurethane	21 in	6 mil	Yellow	Top Dog	**279D95**	1
General Purpose						
Polyethylene	16 in	0.68 mil	Blue	Superior Glove	**65FR04**	100
Polyethylene	18 in	1.25 mil	Blue	Condor	**32TL74**	100
Polyethylene	18 in	1.25 mil	Clear	Condor	**4XUA1**	100
Polyethylene	18 in	1.25 mil	White	Condor	**32TL73**	100
Vinyl	18 in	6 mil	Blue	Mcr Safety	**26H489**	12
Vinyl	18 in	8 mil	White	Ansell	**3TCD5**	1
Vinyl	18 in	8 mil	Blue	Ansell	**5EME0**	1

26W805

DuPont Tyvek · INTERNATIONAL ENVIRO GUARD · MCR SAFETY · Condor · DuPont ProShield 60

Particulate-Resistant Disposable Sleeves

Offer full arm protection from dirt, dust, light liquid splash and some aerosols. Use for light-duty industrial, cleaning, and pharmaceutical work.

Primary Material	Sleeve Length	Thickness	Color	Brand	Item No.	Pkg. Qty.
Tyvek 400	18 in	5.9 mil	White	Dupont	**4T062**	200
Bodylifter 95+	18 in	12 mil	White	Bodyfilter 95+	**3HKJ4**	200
Microporous Fabric	18 in	15 mil	White	International Enviroguard	**6XMP0**	200
Polypropylene	18 in	1.8 mil	Blue	Mcr Safety	**26J504**	200
Polypropylene	18 in	1.8 mil	White	Mcr Safety	**26J505**	200
Polypropylene	18 ½ in	9 mil	White	Condor	**26W805**	200
Polypropylene	18 ½ in	12.5 mil	White	Condor	**2KTT9**	200
ProShield 60	18 in	10 mil	White	Dupont	**6LY63**	200

24AF71

DuPont Tyvek · Ansell · INTERNATIONAL ENVIRO GUARD

Cleanroom Particulate-Resistant Disposable Sleeves

ISO- and FED STD 209E- rated for use in cleanrooms and controlled environments. Low-linting fabric.

Sleeve Material	Sterile/ Non-Sterile	Sleeve Length	Thickness	Color	Brand	Item No.	Pkg. Qty.
ISO 4							
Tyvek(R) Isoclean(R)	Non-Sterile	18 in	5 mil	White	Dupont	**24AF71**	100
CleanTough	Non-Sterile	20 in	9 mil	White	Ansell	**575Y05**	180
Tyvek(R) Isoclean(R)	Sterile	18 in	5 mil	White	Dupont	**5WYL7**	100
CleanTough	Sterile	20 in	9 mil	White	Ansell	**575Y58**	180
ISO 5							
Microporous Fabric	Non-Sterile	18 in	15 mil	White	International Enviroguard	**30N490**	200
Tyvek(R) Isoclean(R)	Sterile	18 in	4.4 mil	White	Dupont	**29EU14**	100
GammaGuard(R) CE	Sterile	21 ½ in	15 mil	White	International Enviroguard	**30N517**	200
ISO 6							
Tyvek(R) Isoclean(R)	Non-Sterile	18 in	5.4 mil	White	Dupont	**24AF70**	100

G6631

D1641

Electrostatic Dissipative (ESD) Gloves

Made of conductive fibers to prevent the buildup of static electricity that can damage sensitive electronic equipment. Use for electrical component assembly, and in telecommunication and electronics industry applications.

G6631 are uncoated for better dexterity and breathability.

G6632 have a polyurethane coating to provide a firmer grip.

D1641 have a polyurethane coating on palms and fingertips. Copper-based Thunderon liner.

F0634 have a nitrile foam coating for abrasion resistance as well as an antimicrobial liner and coating.

Cuff	Color	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Nylon/Carbon Fiber Yarns					
Elastic Rubber Band	Gray	S, M, L, XL, 2XL	Condor®	**G6631**	12
Nylon/Copper Fiber Yarns					
Elastic Rubber Band	Beige/White	XS, S, M, L, XL, 2XL	Condor®	**G6632**	1
Nylon/Thunderon(R) Shell					
Rolled	Gray/White	XS, S, M, L, XL, 2XL	Honeywell North®	**D1641**	1
Nitrile					
Rolled	Gray	XS, M, XL, L, S	Hyflex	**F0634**	1

43Y569

8X171

General Purpose Finger Tape

Protect fingers and thumbs from minor abrasions and keep wounds or scratches clean while handling small parts or performing light tasks.

Material	Color	W	L	Brand	Item No.
Cotton	White	1 in	165 ft	Kraft Tool	**43Y569**
Cotton/Latex	Green	1 in	90 ft	Guard-Tex	**8X171**

G6133

3RZR9

Finger Cots

- Thickness: 3 mil
- Length: 2¾"
- Rolled cuff

Provide excellent sensitivity while preventing contamination when handling small items and parts. Use powder-free cots when particulate contamination is a concern. Dispenser with hinged lid offers easy access.

Powdered—Designed for use where particulate contamination is not a concern. Excellent sensitivity.

Finger Cot Material	Powdered/ Powder-Free	Color	▶CHOOSE: Size	Brand	Item No.	Pkg. Qty.
Finger Cots						
Natural Rubber Latex	Powdered	White	S, M, L	Condor	**G6132**	1440
Natural Rubber Latex	Powder-Free	Beige	S, M, L	Condor	**G6133**	720

Material	H	W	D	Brand	Item No.
Finger Cot Dispenser					
Acrylic Plastic	12 ½ in	6 in	8 ½ in	—	**3RZR9**

Ring Protectors

Fit snugly over rings to protect them from damage while performing general assembly and maintenance tasks.

Material	Color	Thickness	L	Item No.	Pkg. Qty.
Nylon/Spandex	Blue	3.0 mil	1 ½ in	**45KJ58**	12

3PWG5

3PLR7

Finger Guards

Protect fingers and thumbs from heat or minor abrasions while leaving the hand open for comfort and dexterity. Fiberglass finger cots are heat resistant to 1000°F.

Material	Color	Size	Brand	Item No.	Pkg. Qty.
Heat Resistant Finger Cots					
Fiberglass	White	Universal	Zetex	**3PWG5**	12
Finger Guard					
Grain Leather	Beige	S	Karewear	**3PLR9**	10
Grain Leather	Beige	M	Karewear	**3PLR8**	10
Grain Leather	Beige	L	Karewear	**3PLR7**	10

Find more information about gloves and glove sizing on page 1687.

Chemical-Resistant Glove Materials

Chemical-resistant gloves are made from a wide variety of rubber polymers with different levels of resistance to chemicals, oils, and hazardous liquids. Choose your glove material based on the chemical or liquid exposure in your application.

Butyl has a high permeation resistance to gases and water vapors and provides heavy chemical resistance to esters, ketones, and acids. Butyl is very elastic and remains flexible at low temperatures.

Butyl/Viton is soft, flexible, and provides excellent protection against aggressive chemicals, such as hydrocarbons and concentrated mineral acids.

Natural rubber latex provides good resistance to some acids, alcohols, caustics, and detergents; but poor resistance to oils, greases, hydrocarbons, and organic solvents. Latex has high elasticity and dexterity, exceptional grip in wet and dry applications, and good resistance against rips and tears. It can cause allergic reactions in some people.

Natural rubber latex/neoprene provides good resistance to a variety of oils, acids, and alcohols. It is heat-resistant, strong, and highly flexible and elastic.

Neoprene is a synthetic rubber that resists a variety of substances including oils, acids, alcohols, fats, ketones, solvents, greases, and petrochemicals. It is flexible and provides excellent tensile strength and heat resistance.

Nitrile resists oils, grease, hydrocarbons, and animal fats, as well as punctures and abrasion. It has good resistance to acids, some organic solvents, pesticides, and fuel.

PVA (polyvinyl alcohol) is impermeable to gases and has excellent resistance to aromatic and chlorinated solvents. It has no resistance to water or water-based solutions.

PVC (polyvinylchloride) is abrasion-resistant and provides excellent resistance to acids, fats, and petroleum hydrocarbons. It remains flexible at a wide range of temperatures and can be used at low temperatures such as those encountered when working outdoors with refrigerated items.

PVC/nitrile provides a liquid-resistant barrier and excellent resistance to most chemicals and oils. It generally provides better resistance to solvents and abrasion than PVC alone.

Supported vs. Unsupported Gloves

Supported gloves incorporate the liner into the glove for better durability than unsupported gloves. They are a good choice for tasks when gloves are fully submerged in liquid.

Unsupported gloves have a good sense of touch but are less durable than supported gloves. They are a good choice when gloves come into contact with chemicals but are not fully submerged.

EN ISO 374 Types and Chemicals Tested

CLASSIFICATION TYPES

According to their permeation performance, chemical-resistant gloves are classified into three types.

Type A gloves have been tested against at least six chemicals listed in the standard and were found to meet level 2 for those chemicals. Level 2 indicates a breakthrough time of no less than 30 minutes against the tested chemicals.

Type B gloves have been tested against at least three chemicals listed in the standard and were found to meet level 2 for those chemicals. Level 2 indicates a breakthrough time of no less than 30 minutes against the tested chemicals.

Type C gloves have been tested against at least one chemical listed in the standard and were found to meet level 1 for those chemicals. Level 1 indicates a breakthrough time of no less than 10 minutes against the tested chemicals.

CHEMICALS TESTED

A - Methanol
B - Acetone
C - Acetonitrile
D - Dichloromethane
E - Carbon Disulphide
F - Toluene
G - Diethylamine
H - Tetrahydrofuran
I - Ethyl Acetate
J - n-Heptane
K - Sodium Hydroxide 40%
L - Sulphuric Acid 96%
M - Nitric Acid 65%
N - Acetic Acid 99%
O - Ammonium Hydroxide 25%
P - Hydrogen Peroxide 30%
S - Hydrofluoric Acid 40%
T - Formaldehyde 37%

MCR SAFETY

Chemical- & Impact-Resistant Gloves

Polymer coating on outside of glove protects against chemicals and hazardous liquids. Raised bumpers protect the back of the hand from impact.

Glove Materials	EN ISO 374 Chemical Rating	ANSI/ISEA Impact Level	Max. Temp.	Length	Glove Texture	Color	Supported / Unsupported	▶CHOOSE: Size	Series	Item No.	Pkg. Qty./ Pair
General Purpose											
PVC	Type A - JKLMPT	1	176 °F	14 in	Grain	Orange	Supported	S, M, L, XL, 2XL	N2658HVO	**K2812**	1

Find more information about EN ISO 374 types and chemicals tested on page 1692.

J5798

D6121

J4434

K2854

J1332

K2855

Chemical- & Cut-Resistant Gloves

ANSI/ISEA rated to protect workers from cut and abrasion hazards.

Glove Materials	EN ISO 374 Chemical Rating	ANSI/ISEA Cut Level	Length	Glove Texture	Color	Supported / Unsupported	Glove Liner Material	▶CHOOSE: Size	Series	Brand	Item No.	Pkg. Qty./Pair
General Purpose												
PVC	Not Rated	—	14 in	Grain	Blue	Supported	Kevlar®	XL, 2XL, M, L	—	Condor	**J5798**	1
PVC	Type B - JKL	A2	12 in	Grain	Blue	Supported	Kevlar®	XL, 2XL, M, L	KV660	Showa	**D6121**	1
PVC	Not Rated	A2	12 in	Grain	Red	Supported	Cotton/Kevlar®	M, L, XL, 2XL, 3XL	Redcoat	Mcr Safety	**J4434**	12
PVC	Type A - AJKLMO	A3	14 in	Grain	Red	Supported	Foam/Polyester	S, L, 2XL	074	Ansell	**K2856**	1
PVC/Nitrile	Not Rated	A4	13 in	Rough	High-Visibility Yellow	Supported	Aramid	M, L, XL, 2XL	Mudder	HexArmor	**K2854**	1
Neoprene	Type A - AJKLMT	A5	14 in	Grain	Black	Supported	HPPE	S, M, L, XL	3416	Showa	**J1332**	1
General Purpose with Extended Cuff												
PVC	Type A - AJKLMO	A3	14 in, 16 in, 17 ½ in	Grain	Red	Supported	Foam/Polyester	S, L, 2XL	075	Ansell	**K2855**	1

H7542

J2433

J2763

Chemical-Resistant Cold-Condition Insulated Gloves

Protect hands from hazardous chemicals in addition to keeping hands warm when handling cold or frozen items, or working in cold environments.

Glove Materials	EN ISO 374 Chemical Rating	ANSI/ISEA Cut Level	Min. Temp.	Length	Glove Texture	Color	Supported / Unsupported	Glove Liner Material	▶CHOOSE: Size	Series	Item No.	Pkg. Qty./Pair
General Purpose												
Natural Rubber Latex	Type A - AKLMPT	A2	Not Rated	13 in	Crinkle	Blue	Supported	Cotton	7, 8, 9, 10, 11	AlphaTec	**H7542**	1
Natural Rubber Latex	Not Rated	A2	-25°F	12 in	Crinkle	Blue	Supported	Cotton	8, 9, 10	AlphaTec	**J2433**	1
General Purpose with Extended Cuff												
PVC	Type B - KLT	A2	-22 °F	12 in	Grain	Blue	Supported	Cotton	8, 9, 10	Solvex 23-202	**J2763**	1

Find more information about EN ISO 374 types and chemicals tested on page 1692.

391Z72

K2209

K2853

D0535

4T435

SHOWA Ansell

Chemical- & Heat-Resistant Gloves

Provide essential protection when working with hot or hazardous chemicals.

Glove Materials	EN ISO 374 Chemical Rating	ANSI/ISEA Cut Level	Max. Temp.	Length	Glove Texture	Color	Supported / Unsupported	Glove Liner Material	▶CHOOSE: Size	Series	Brand	Item No.	Pkg. Qty./Pair
General Purpose													
Neoprene	Type A - AJKLMT	—	500 °F	18 in	Grain	Black	Supported	Cotton	L	6781R	Showa	**391Z72**	1
Neoprene/Nitrile	Type A - AGJKLPT	—	212 °F	13 in	Grain	Black/Gray	Supported	Nylon	7, 8, 9, 10, 11	AlphaTec	Ansell	**K2209**	1
Nitrile	Type A - AJKLOPT	A1	212 °F	11 in	Grain	Black/Green	Unsupported	Acrylic	7, 8, 9, 10, 11	AlphaTec 58-530B	Ansell	**J2647**	1
Nitrile	Type A - AJKLOPT	A1	212 °F	13 ¼ in	Grain	Black/Green	Supported	Acrylic	7, 8, 9, 10, 11	AlphaTec 58-535B	Ansell	**J2648**	1
Neoprene	Type A - AJKLPT	A2	400 °F	14 in	Smooth	Black	Supported	Cotton	10	AlphaTec 09-022	Ansell	**5AC18**	1
Neoprene	Type A - AKLMPT	A2	212 °F	14 in	Smooth	Black	Supported	Cotton Jersey	10	AlphaTec 09-924	Ansell	**2AF71**	1
Nitrile	Type A - JKLOPT	A3	212 °F	13 ¾ in	Grain	Black/Green	Supported	Intercept™	9, 11, 8, 10, 7, 6	AlphaTec	Ansell	**K2853**	1
General Purpose with Extended Cuff													
Neoprene	Type A - AKLMPT	A2	356 °F	17 ¾ in	Rough	Black	Supported	Fleece/Jersey	8, 10	Solvex 19-024	Ansell	**D0535**	1
Neoprene	Type A - BCDFIJ	A2	356 °F	26 in	Rough	Black	Supported	Fleece/Jersey	8, 10	Solvex 19-026	Ansell	**D0536**	1
Neoprene	Type A - AKLMPT	A2	212 °F	18 in	Smooth	Black	Supported	Cotton Jersey	10	AlphaTec 09-928	Ansell	**4T435**	1
Neoprene	Type A - AKLMPT	A2	212 °F	31 in	Smooth	Black	Supported	Cotton Jersey	10	AlphaTec 09-430	Ansell	**4T436**	1

SHOWA

Chemical-Resistant Antistatic Gloves

Prevent buildup of static electricity when working with sensitive electronic components or equipment.

Glove Materials	EN ISO 374 Chemical Rating	Length	Glove Texture	Color	Supported / Unsupported	Glove Liner Material	▶CHOOSE: Size	Series	Item No.	Pkg. Qty./Pair
General Purpose										
PVC	Type A - AJKLMN	12 ½ in	Grain	Black	Supported	Cotton/Polyester	9, 10	660 ESD	**K2602**	1

Find more information about EN ISO 374 types and chemicals tested on page 1692.

General Purpose Chemical-Resistant Gloves

K2135

D0508

- For available sizes, go to Grainger.com

Protect workers from exposure to hazardous liquids such as acids, bases, alcohols, solvents, oils, and other chemicals. See page 1692 for information on glove materials.

Glove Materials	EN ISO 374 Chemical Rating	Length	Glove Texture	Color	Supported / Unsupported	Brand	Item No.	Pkg. Qty./ Pair
Ergonomic								
Nitrile	Type B-JKL	12 in	Foam	Black/Green	S	Showa	**K2135**	1
General Purpose								
—	—	15 in	Smooth	Green	UN	Condor	**K2851**	1
	—	12 in	Grain	Red Brown	S	Condor	**22KA68**	1
	—	12 in	Grain	Red Brown	S	Condor	**22KA69**	1
Latex	—	12 in	Smooth	Blue	S	MCR	**J4453**	12
—	—	12 in	Fish Scale	Yellow	UN	Condor	**J4882**	1
	—	13 in	Diamond	Orange	UN	Condor	**J4885**	1
	—	12 in	Fish Scale	Blue	UN	Condor	**J4886**	1
	—	13 in	Grain	Green	UN	Condor	**J5799**	1
Fiber glass	—	13 in	Grain	Black	S	MCR	**K2811**	12
PVC/Nitrile	Not Rated	13 in	Rough	Hi-Vis Yellow	S	HexArmor	**K2845**	1
Nat. Rub. Latex	Not Rated	12 in	Crinkle	Yellow	S	MCR	**49DC04**	1
	Not Rated	10 ½ in	Diamond	Yellow	UN	MCR	**48GM76**	12
PVC	Not Rated	18 in	Grain	Brown/Red	S	Condor	**22KA61**	1
	Not Rated	12 in	Grain	Brown/Red	S	Condor	**22KA62**	1
	Not Rated	12 in	Grain	Green	S	MCR	**48GM81**	1
	Not Rated	14 in	Grain	Black	S	MCR	**48XW50**	12
	Not Rated	14 in	Grain	Black	S	MCR	**48GM48**	1
	Not Rated	14 in	Grain	Brown/Red	S	Condor	**22KA63**	1
	Not Rated	12 in	Grain	Black	S	MCR	**48XW49**	12
	Not Rated	10 in	Grain	Black	S	MCR	**49DA97**	12
	Not Rated	12 in	Grain	Black	S	MCR	**49DA98**	12
	Not Rated	14 in	Grain	Green	S	MCR	**48GM82**	12
	Not Rated	10 in	Grain	Black	S	MCR	**49DA94**	12
	Not Rated	10 in	Grain	Green	S	MCR	**48GM80**	1
	Not Rated	10 ½ in	Grain	Green/ Orange	S	MCR	**5WUL5**	1
	Not Rated	10 ½ in	Grain	Hi-Vis Orange/ Hi-Vis Lime	S	MCR	**49DC91**	12
	Not Rated	12 in	Rough	Black	S	MCR	**26J277**	12
	Not Rated	14 in	Smooth	Black	S	MCR	**49DA39**	12
	Not Rated	12 in	Grain	Black	S	MCR	**49DA37**	12
	Not Rated	14 in	Rough	Black	S	MCR	**26J334**	12
Nitrile	Not Rated	13 in	Diamond	Green	UN	Condor	**D0487**	1
	Not Rated	13 in	Diamond	Green	UN	Condor	**D0489**	1
	Not Rated	18 in	Diamond	Green	UN	Condor	**D0492**	1
Nat. Rub. Latex	Not Rated	12 in	Fish Scale	Yellow	UN	Ansell	**D0512**	1
	Not Rated	12 in	Fish Scale	Yellow	UN	Ansell	**D0513**	12
	Not Rated	12 in	Fish Scale	Beige	UN	Ansell	**D0514**	1
Nat. Rub. Latex/Neoprene	Not Rated	12 in	Smooth	Beige	UN	Ansell	**D0518**	1
PVC	Not Rated	12 in	Smooth	Black	S	Condor	**D0524**	1
	Not Rated	14 in	Smooth	Black	S	Condor	**D0525**	1
	Not Rated	12 in	Rough	Black	S	Condor	**D0526**	1
	Not Rated	12 in	Rough	Black	S	Condor	**D0528**	1
	Not Rated	14 in	Rough	Black	S	Condor	**D0529**	1
Nat. Rub.	Not Rated	12 in	Fish Scale	Blue	UN	Ansell	**G6024**	1
Nat. Rub. Latex	Not Rated	13 in	Smooth	Beige	UN	Ansell	**H7125**	1
	Not Rated	12 in	Honeycomb	Yellow	UN	MCR	**J4437**	1
	Not Rated	12 in	Diamond	Blue	UN	MCR	**J4439**	1
	Not Rated	12 in	Grain	Blue	UN	MCR	**J4440**	1
Nitrile	Not Rated	12 in	Diamond	Amber	UN	MCR	**J4441**	1
	Not Rated	13 in	Diamond	Blue	UN	MCR	**J4442**	1
	Not Rated	13 in	Diamond	Green	UN	MCR	**J4446**	12
Nat. Rub. Latex	Not Rated	12 in	Crinkle	Yellow	S	MCR	**J4449**	1
	Not Rated	12 in	Diamond	Amber	UN	MCR	**J4452**	1
	Not Rated	12 in	Grain	Blue	S	MCR	**J4453**	12
PVC	Not Rated	13 ¾ in	Grain	Black	S	Condor	**J4876**	1
Nitrile	Not Rated	12 in	Grain	Green	S	MCR	**J5033**	12
Nat. Rub. Latex/Neoprene	Not Rated	13 in	Fish Scale	Blue/Yellow	UN	Condor	**K2362**	1
Butyl	Type A-ABCIKMPST	14 in	Rough	Black	UN	Ansell	**J2998**	1
Neoprene	Type A-ADJKLN	14 in	Smooth	Black	S	MCR	**48GG57**	1
	Type A-ADJKLN	12 in	Smooth	Black	S	MCR	**48GG59**	12
	Type A-ADJKLN	14 in	Rough	Black	S	MCR	**69VR25**	1
PVC	Type A-AJKLMN	14 in	Grain	Green	S	MCR	**48GM79**	12
	Type A-AJKLMN	12 in	Grain	Green	S	MCR	**48GM78**	12
	Type A-AJKLMN	10 in	Grain	Green	S	MCR	**49DA40**	12
	Type A-AJKLMN	10 in	Smooth	Black	S	MCR	**48GM94**	1
	Type A-AJKLMN	14 in	Grain	Black	S	MCR	**26J984**	12
Neoprene	Type A-AJKLMT	14 in	Smooth	Black	S	Showa	**H0559**	1
	Type A-AJKLMT	12 in	Smooth	Black	S	Showa	**2AF29**	1
PVC	Type A-AJKLMT	18 in	Smooth	Black	S	Showa	**2AN06**	1
Neoprene	Type A-AJKLMT	14 in, 12 in	Grain	Black	S	Showa	**H0560**	1
PVC	Type A-AJKLMT	18 in	Grain	Black	S	Showa	**H0560**	1
Neoprene	Type A-AJKLMT	14 in	Grain	Black	S	Showa	**J1333**	1
Nitrile	Type A-AJKLOPT	15 in	Grain	Gray	UN	Ansell	**K2850**	1
	Type A-AJKLOT	13 in	Grain	Green	UN	MCR	**J4450**	1
Neoprene	Type A-AJKMNT	14 in	Grain	Black/Blue	S	MCR	**49DD27**	12
	Type A-AJKMNT	12 in	Grain	Green	S	MCR	**G7366**	1
	Type A-AJKMNT	12 in	Grain	Black/Blue	S	MCR	**J4421**	1
	Type A-AJKMNT	14 in	Grain	Green	S	MCR	**J4425**	1
	Type A-AKLMNPT	12 in	Rough	Green	S	Ansell	**D0538**	1
Nat. Rub. Latex/Neoprene	Type A-AKLMNT	12 in	Embossed	Black/Blue	UN	Showa	**D0559**	1
Nitrile	Type A-AKLMNT	11 ¾ in	Rough	Blue	S	MCR	**48GJ82**	1
	Type A-AKLMNT	14 in	Rough	Blue	S	MCR	**48GJ83**	1
Nat. Rub. Latex/Neoprene	Type A-AKLMNT	12 in	Embossed	Blue/Yellow	UN	Showa	**K2540**	1
	Type A-AKLNPT	13 in	Diamond	Blue/Yellow	S	Ansell	**D0521**	1
Nat. Rub. Latex	Type A-AKLNPT	12 in	Diamond	Black	UN	Ansell	**H7130**	1
	Type A-AKLOPS	13 in	Diamond	Orange	UN	Ansell	**D0516**	1
PVA	Type A-BCDFIJ	14 in	Smooth	Red	S	Ansell	**8PCN4**	1
Butyl/Viton®	Type A-BCFLPST	12 in	Smooth	Black	UN	Ansell	**D0564**	1
Butyl	Type A-BCIKLM	14 in	Smooth	Black	UN	MCR	**J4422**	1
	Type A-BCIKLM	14 in	Rough	Black	UN	MCR	**J4423**	1
	Type A-BCIKLM	14 in	Smooth	Black	UN	MCR	**J4424**	1
	Type A-BCIKLM	14 in	Rough	Black	UN	MCR	**K2810**	1
	Type A-BCIKLM	14 in	Smooth	Black	UN	MCR	**K2813**	1

Glove Materials	EN ISO 374 Chemical Rating	Length	Glove Texture	Color	Supported / Unsupported	Brand	Item No.	Pkg. Qty./ Pair
Nat. Rub. Latex	Type A-FKMNPT	15 in	Diamond	Yellow	UN	MCR	**48GL89**	1
	Type A-FK MNPT	12 in	Diamond	Blue	UN	MCR	**48GM96**	1
	Type A-FK MNPT	12 in	Honeycomb	Yellow	UN	MCR	**J4438**	1
	Type A-FK MNPT	12 in	Diamond	Blue	UN	MCR	**J5040**	12
Nitrile	Type A-JKLOPT	12 in	Grain	Gray	UN	Ansell	**K2849**	1
	Type A-JKLOPT	14 in	Grain	Blue	S	Showa	**D0482**	1
	Type A-JKLOPT	13 in	Bisque	Green	S	Showa	**D0505**	1
	Type A-JKLOPT	19 in	Bisque	Green	UN	Showa	**D0506**	1
	Type A-JKLOPT	12 in	Smooth	Gray/Green	S	Ansell	**J4862**	1
	Type A-JKLOPT	15 in	Bisque	Green	UN	Showa	**K2138**	1
	Type A-JKLOPT	12 in	Smooth	Orange	UN	Showa	**K2530**	1
	Type A-JKLOPT	13 in	Smooth	Green	UN	Showa	**K2531**	1
PVC	Type A-KLMOPT	12 in	Grain	Red	S	MCR	**48GM53**	12
	Type A-KLMOPT	14 in	Grain	Red	S	MCR	**49DA92**	12
	Type A-KLMOPT	10 in	Grain	Red	S	MCR	**49DA91**	12
	Type A-KLMOPT	12 in	Grain	Blue	S	MCR	**J4417**	1
Nitrile	Type B-AJL	13 in	Diamond	Green	UN	MCR	**J4447**	1
Neoprene	Type B-AKL	12 in	Honeycomb	Black	UN	MCR	**K2847**	12
	Type B-AKL	13 in	Smooth	Black	UN	Ansell	**D0534**	1
Neoprene/Nat. Rub. Latex	Type B-AKL	12 in	Honeycomb	Orange	UN	MCR	**J4444**	1
Neoprene	Type B-AKL	12 in	Honeycomb	Black	UN	MCR	**J4891**	12
Butyl	Type B-BIK	14 in	Grain	Black	UN	Showa	**K2844**	1
	Type B-BIK	14 in	Smooth	Black	UN	Showa	**K2536**	1
	Type B-BIK	14 in	Smooth	Black	UN	Showa	**K2537**	1
	Type B-BIK	14 in	Grain	Black	UN	Showa	**K2538**	1
Butyl/Viton®	Type B-DFL	14 in, 13 ¾ in	Smooth	Black	UN	Showa	**K2601**	1
Nitrile	Type B-FJK	13 in	Diamond	Green	UN	MCR	**J4451**	1
PVC	Type B-JKL	12 in	Grain	Blue	S	Showa	**D0533**	1
Nitrile	Type B-JKL	12 ¾ in	Raised Diamond	Green	UN	Ansell	**G6022**	1
Nat. Rub. Latex/Nitrile	Type B-JKL	12 ¾ in	Raised Diamond	Green	UN	Ansell	**G6022**	1
Nitrile	Type B-JKL	12 ¾ in	Raised Diamond	Blue	UN	Ansell	**G6023**	1
PVC	Type B-JKL	11 ¾ in	Grain	Blue	S	Showa	**K2136**	1
	Type B-JKL	12 in	Rough	Blue	UN	Ansell	**K2354**	1
	Type B-JKL	14 in	Rough	Blue	UN	Ansell	**K2355**	1
Neoprene	Type B-JKN	14 in	Smooth	Black	S	MCR	**48GG58**	1
	Type B-JKN	12 in	Smooth	Black	S	MCR	**48GM95**	1
Nitrile	Type B-JKN	12 in	Rough	Green	S	MCR	**J4427**	12
Neoprene	Type B-JKN	14 in	Smooth	Black	S	MCR	**K2808**	12
Nitrile	Type B-JKOPT	12 in	Fish Scale	Blue	UN	Showa	**J7509**	24
PVC	Type B-KLT	12 in	Grain	Blue	S	Ansell	**J2764**	1
Nat. Rub. Latex	Type B-KLT	12 in	Diamond	Orange	UN	Ansell	**J3018**	144
	Type B-KLT	12 in	Diamond	Orange	UN	Ansell	**J5436**	1
Nat. Rub. Latex/Nitrile	Type B-KMN	12 in	Honeycomb	Blue/Green	UN	MCR	**K2846**	1
PVC	Type B-KPT	12 in	Rough	Blue	S	Ansell	**K2852**	1
Nat. Rub. Latex	Type B-KPT	11 ¾ in	Fish Scale	Blue	UN	Ansell	**D0508**	1
	Type B-LPT	12 in	Grain	Blue	S	MCR	**48GM86**	1
	Type B-LPT	12 in	Grain	Blue	S	MCR	**J5037**	1
	Type C-J	13 ½ in, 12 in	Diamond	Blue/Yellow	UN	MCR	**J4445**	12
	Type C-K	12 in	Grain	Yellow	UN	MCR	**48XW35**	12
	Type C-K	12 in	Grain	Yellow	UN	MCR	**J5041**	12
Nitrile	Type C-L	25 in	Grain	Yellow	S	MCR	**K2811**	1
General Purpose with Extended Cuff								
PVC	Not Rated	18 in	Grain	Black	S	MCR	**49DA99**	12
	Not Rated	18 in	Smooth	Black	S	MCR	**49DA38**	12
Nitrile	Type A-AGJKLPT	18 in	Smooth	Green	UN	Ansell	**D0503**	1
PVC	Type A-AJKLMN	18 in	Grain	Green	S	MCR	**49DA41**	12
Neoprene	Type A-AKLMNPT	14 in	Rough	Green	S	Ansell	**D0539**	1
Butyl	Type A-BCIKLM	32 in	Smooth	Black	UN	MCR	**415M93**	1
Nitrile	Type A-GKLNST	18 in	Grain	Green	UN	MCR	**J4448**	1
Neoprene	Type B-AKLMT	31 in	Smooth	Black	S	Showa	**163M39**	1
Nitrile	Type B-JKL	25 ½ in	Grain	Yellow	S	Showa	**D0486**	1
	Type B-JKL	26 in	Grain	Blue	S	Showa	**K2041**	1
Neoprene	Type B-JKN	18 in	Smooth	Black	S	MCR	**48GG60**	1
	Type B-JKN	31 in	Smooth	Black	S	MCR	**48GG61**	1
PVC	Type B-KLT	24 in	Grain	Blue	S	Ansell	**J2762**	1
Nitrile	Type C-L	25 in	Grain	Yellow	S	MCR	**J5036**	1
High Tactility								
Nitrile	Type A-AGJKLPT	15 in	Smooth	Green	UN	Ansell	**D0502**	1
	Type A-JKLOPT	13 in	Smooth	Green	UN	Ansell	**D0499**	1
	Type A-JKLOPT	13 in	Smooth	Green	UN	Ansell	**D0501**	1
	Type A-JKLOPT	13 in	Reversed Lozenge	Green	UN	Ansell	**D0507**	1
	Type A-JKLOPT	12 in	Tread	Blue	UN	Showa	**K2529**	1
	Type A-JKLOPT	13 in	Bisque	Green	UN	Showa	**K2533**	1
	Type A-JKNOPT	13 in	Smooth	Green	UN	Ansell	**D0498**	1
	Type B-JKT	12 in	Reversed Lozenge	Blue	UN	Ansell	**K2084**	1
Moisture-Absorbant Interior								
Nitrile	Type A-JKLOPT	12 in	Lozenge	Green	UN	Ansell	**J2282**	1
	Type A-JKLOPT	15 in	Lozenge	Green	UN	Ansell	**J2283**	1

Find more information about gloves and glove sizing on page 1687.

Cut and Abrasion Resistance Classification for Hand and Arm Protection

ANSI/ISEA are the American National Standards Institute and International Safety Equipment Association. The ANSI Cut and Abrasion Resistance tables shown here are provided by ANSI and help identify the level of resistance provided by a material, enabling compliance with OSHA regulations 1910.138 (a) and 1910.138 (b), mitigating risk of injury, and increasing worker productivity.

Cut-resistant gloves protect hands from direct contact with sharp edges such as glass, metal, ceramics, and other materials. Cut resistance is a function of a glove's material construction. High-performing fabrics add cut protection without adding thickness. The ANSI/ISEA 105-2016 standard provides a consistent scale for manufacturers to rate their products in each of the designated areas based on standardized test methods.

Abrasion level indicates the wear resistance properties of a material. This test method provides a comparative ranking of material performance, which can be used as an indication of relative end-use performance. Glove coatings improve abrasion level over uncoated gloves.

Updated ANSI/ISEA Classification Levels for Cut Resistance

ANSI/ISEA 105 (2016)		ANSI/ISEA 105 (2005)	
New Cut Level Rating	Weight (grams) needed to cut through material** when tested with new test method designation ASTM F2992/F2992M-15	Old Cut Level Rating	Weight (grams) needed to cut through material* when tested in accordance with ASTM F1790-97 or F1790-05
N/A	N/A	0	<200
A1	≥200	1	≥200
A2	≥500	2	≥500
A3	≥1000	3	≥1000
A4	≥1500	4	≥1500
A5	≥2200	5	≥3500
A6	≥3000	N/A	N/A
A7	≥4000	N/A	N/A
A8	≥5000	N/A	N/A
A9	≥6000	N/A	N/A

*****20mm (0.8 in.) of blade travel***

**** 25mm (1.0 in.) of blade travel – ASTM F1790-97***
20mm (0.8 in.) of blade travel – ASTM F1790-05

ANSI/ISEA Classification Levels for Abrasion Resistance

Level (tested at 500g load)	Abrasion cycles to fail
0	<100
1	≥100
2	≥500
3	≥1000
Level (tested at 1000g load)	
4	≥3000
5	≥10000
6	≥20000

Note: Tested in accordance with ASTM D3389.

D2037

D2044

Condor

Kevlar Cut-Resistant Knit Gloves

- For dry environments

Seamless knit in flexible material that offers cut and heat resistance.

Uncoated—Use alone or as a liner for added protection. Ambidextrous.

PVC-Coated—Dotted coating provides increased protection, grip, and extended wear. Reversible.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Gauge	Color	▶CHOOSE: Size	Item No.
Uncoated					
A2	1	7	Yellow	S, L	**D2034**
A2	1	13	Yellow	S, L	**D2031**
A3	2	7	Yellow	S, L	**D2037**
PVC-Coated					
A2	3	7	Black/Yellow	S, L	**D2044**
A4	2	7	Blue/Yellow	S, M, L, XL, 2XL	**J4928**

Cut-Resistant Knit Gloves

SHOWA

D2081

Knit shell made of HPPE engineered fibers, plated with Lycra-Spandex and Thermax for unmatched stretch, comfort, and thermal warmth. Provides a high level of tactile dexterity. Ideal for handling box cutters, knives, shears, and fabricated and sharp-edged metals. Ambidextrous and reversible. **D2082** gloves have PVC dots on both sides.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Material	Gauge	Color	▶CHOOSE: Size	Item No.
T-Flex Plus						
A4	1	Uncoated	13	Light Gray	7, 8, 9, 10	**D2081**
T-Flex Plus with PVC Dots						
A4	2	PVC	13	Blue/Gray	7, 8, 9, 10	**D2082**

Ansell

Kevlar Cut-Resistant Knit Gloves

- For dry environments

D2036

D2021

Neptune—Breathable uncoated gloves offer protection from light cut hazards in applications such as assembly line production or final part inspection.

Vantage—Uncoated gloves provide good breathability and dexterity. Protect hands from medium cut hazards in applications such as automotive assembly, installing HVAC ductwork, and handling light glass, stainless steel parts, and light stamped metal.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Neptune					
A2	3	Yellow	6, 7, 8, 9, 10	70-200	**H8919**
A3	3	Yellow	S, M, L	70-215	**D2036**
A3	3	Yellow	XS, S, M, L, XL	70-225	**D2039**
Vantage					
A4	2	Gray	XS, S, M, L, XL, 2XL	70-761	**D2021**
A4	3	Yellow	6, 7, 8, 9, 10	70-356	**J3011**

H5895

D2024

Cut-Resistant Knit Gloves with Leather Palm

Condor Ansell

Breathable knit with good dexterity. Leather on the palm side of the hand and fingers increases durability and abrasion resistance over plain gloves.

D2024 palm is double-stitched with Kevlar fiber.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Glove Liner Material	Color	▶CHOOSE: Size	Brand	Item No.
Cowhide Palm						
A4	5	Kevlar®	Black/Yellow	L, M, S	Condor	**H5895**
A4	5	Kevlar®	Gray	2XL	Condor	**H5895**
Goatskin Palm						
A5	5	Cotton/Polyester	Green Nylon	8, 9, 10, 11, 7	Activarmr	**D2024**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

Cut-Resistant Gloves for Food Processing Environments

Midweight gloves offer puncture, cut, and abrasion resistance for a variety of food processing tasks. Polyester-stitched liner is high-performance polyethylene (HPPE) and glass fiber. Strong HPPE/fiberglass palm has a sensitive touch for detailed work.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Item No.
A4	3	Gray	S, M, L, XL, 2XL	**J4935**

Cut-Resistant Gloves for Food Processing Environments

- Dyneema lining
- Sold individually

Gloves are designed for comfort and dexterity while using knives, blades, and utensils in food processing applications. Dyneema polyethylene fibers used to construct gloves are superstrong, lightweight, and extremely moisture/UV/chemical resistant.

SafeKnit—High-strength fibers offer superior comfort and flexibility and a high level of cut resistance in heavy-duty applications. Ambidextrous.

PolarBear—G9435 and G9436 lightweight knit gloves provide comfortable protection for wearers working with sharp blades.

G9432 PolarBear Supreme gloves employ a blend of fibers and advanced knitting method to incorporate strands of stainless steel for extremely high cut protection.

- FDA compliant for food handling

PawGuard—Medium-duty glove provides a close, comfortable fit and the cut protection of a heavyweight glove. Good for most knife-hand and some off-hand applications.

- FDA compliant for food handling

VersaTouch—Knitted variable-stitch design adjusts to the shape of the hand to reduce fatigue and enhance cut protection. Exclusive materials manage moisture and hand temperature in hot and cold environments for high levels of comfort as well as cut protection. Designed with Dyneema Diamond Technology to deliver excellent dexterity.

- FDA compliant for food handling

H8918

G9432

G9433

H3437

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
SafeKnit					
A3	3	White	6, 7, 8, 9, 10	72-025	**H8918**
PolarBear					
A4	3	Gray	6, 7, 8, 9, 10	74-047	**G9435**
A4	3	White	6, 7, 9, 10	74-045	**G9436**
A8	3	White	6, 7, 8, 9, 10	74-301	**G9432**
PawGuard					
A6	3	Gray	XS, S, M, L, XL	74-048	**G9433**
A6	4	White	XS, S, M, L, XL	74-048	**G9433**
VersaTouch - For Off-Hand					
A4	4	Gray/Green	7, 8, 9, 10, 11	74-730	**H3437**
VersaTouch - For Knife-Hand					
A4	4	Gray/Green	7, 8, 9, 10, 11	74-731	**H3438**

niroflex USA

Chainmail Cut-Resistant Gloves

- Stainless steel
- Ambidextrous
- Sold individually

Protect against extreme cut hazards in applications such as food preparation, butchering operations, and knife sharpening and cleaning. Puncture-resistant stainless steel mesh can be sanitized to eliminate the growth of bacteria. Cuffs are color-coded by size, for easy identification.

Condor gloves have a nylon strap at the wrist to securely hold glove.

Niroflex gloves have a stainless steel cuff with a stainless steel clip closure.

G4015

G4016

Chainmail Cuff Length Style	▶CHOOSE: Size	Brand	Item No.
Wrist	XXS, XS, S, M, L, XL, 2XL	Condor	**G4015**
Wrist		Niroflex Usa	**G4016**
3 in Extended		Niroflex Usa	**G4017**
6 in Extended		Niroflex Usa	**G4018**
9 in Extended		Niroflex Usa	**J2274**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

H6346

H4213

J4927

J4934

H6337

Cut-Resistant Palm-Coated Gloves Condor

- For dry and light oil applications

COATING MATERIALS

Coated gloves boost job performance by enhancing grip, particularly on slippery surfaces.

Natural Rubber Latex—A natural material with elasticity that resists cuts, punctures, and slashes.

Nitrile—Protects against petroleum, acids, and solvents, and resists snags, punctures, abrasion, and cuts.

Polyurethane—Allows tactile sensitivity and helps protect hands from harmful residue and chemicals.

LINING MATERIALS

Provide high level of hand protection.

Polyester—Cost-effective, durable material wicks moisture away from the skin. Well-suited for a wide range of demanding applications.

Kelvar—Aramid fiber offers cut and heat resistance good for automotive, sheet metal, and glass handling tasks.

HPPE—High performance polyethylene material offers cut, puncture, and abrasion resistance in carpentry and joining tasks and when handling ceramics, glass, and plastics.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Coating Finish	Color	▶CHOOSE: Size	Item No.
Latex						
A2	4	Polyester	Rough	Gray	S, M, L, XL, 2XL	**H6346**
A3	3	Kevlar®	Rough	Blue/Yellow	S, M, L, XL, 2XL	**D1996**
A3	4	Polyester, Stainless steel	Rough	Black/Yellow	S, M, L, XL, 2XL	**J4922**
A5	4	Kevlar®	Rough	Black/Yellow	S, M, L, XL, 2XL	**J4925**
Nitrile						
A2	3	Kevlar®	Rough	Black/Yellow	XS, S, M, L, XL, 2XL	**D1963**
A2	5	Kevlar®	Foam	Black/Yellow	S, M, L, XL, 2XL	**J4926**
A3	5	Polyester, Stainless steel	Smooth	Green/Yellow	S, M, L, XL, 2XL	**J4923**
A3	5	HPPE, Spandex®	Foam	Black/Gray	S, M, L, XL, 2XL	**J4920**
A3	5	HPPE, Spandex®	Foam	Gray/Orange	S, M, L, XL, 2XL	**J4919**
A4	5	Kevlar®	Foam	Gray/Yellow	S, M, L, XL, 2XL	**H4213**
A4	5	Kevlar®, Spandex®	Foam	Blue/Yellow	S, M, L, XL, 2XL	**J4927**
A4	5	HPPE	Foam	Gray	S, M, L, XL, 2XL	**J4921**
Polyurethane						
A2	3	HPPE	Smooth	Blue	S, M, L, XL, 2XL	**J4934**
A2	4	HPPE	Smooth	Gray	S, M, L, XL, 2XL	**D1984**
A2	5	HPPE	Smooth	White	S, M, L, XL, 2XL	**H6345**
A3	4	HPPE	Smooth	Black/Gray	S, M, L, XL, 2XL	**H6337**
A4	4	HPPE	Smooth	Black	S, M, L, XL, 2XL	**H4212**
A4	4	HPPE, Spandex®	Smooth	Black/Gray	S, M, XL, 2XL	**J4924**

Cut-Resistant Palm-Coated Gloves Ansell

- For dry and light oil environments
- Latex coated

Raised crinkle finish gives excellent grip in wet and dry conditions.

D1486

D1528

PowerFlex—D1486 gloves have knit liner that provides a tensioned inner surface for optimal fit and flexibility.

D1528 gloves have thermal terry loop liner and naturally insulating coating that offers excellent protection against the cold, down to -22°F for brief contact. Bright liner color boosts visibility for safety in low or poor light. Thumb is fully coated for added protection.

PowerFlex Plus —100% Kevlar liner provides exceptional cut, abrasion, and puncture resistance.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Mfr. Model	Item No.
PowerFlex						
A2	4	Cotton, Polyester	Blue/Gray	S, M, L, XL	80-100	**D1486**
A3	4	Acrylic Terry	Blue/High-Visibility Yellow	S, M, L, XL, 2XL	80-400	**D1528**
PowerFlex Plus						
A2	4	Kevlar®	Blue/Yellow	S, M, L, XL	80-600	**D2002**

Cut-Resistant Palm-Coated Gloves SHOWA

D1982

H7936

Polyurethane Coated— Comfortable, launderable gloves provide both cut protection and sensitivity for performing delicate tasks. Polyurethane palm and finger coating help ensure a reliable grip on greasy and oily workpieces. Elastic knit wrist helps keep out debris.

Foam Nitrile Coated—Abrasion-resistant gloves protect from sharp edges on ceramics, glass, and metals. Flexible with a comfortable fit. Foam nitrile coated palm with a sponge grip.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Item No.
Polyurethane					
A2	6	HPPE	Gray	S, M, L, XL, 2XL	**D1982**
Foam Nitrile					
A4	4	HPPE, Fiberglass, Nylon, Spandex®	Black/Gray	7, 8, 9, 10, 11	**H7936**

J4380

J4397

MCR SAFETY

Cut-Resistant Palm-Coated Gloves

Polyurethane—PU coating adds abrasion resistance and grip for tough jobs. J4380 and J4416 have seamless knit construction that is breathable and comfortable. E4241 incorporates Dyneema fibers to dissipate heat and moisture.

Nitrile—J4397 has smooth nitrile coating that resists abrasion, oil, and chemical splash, with a stretch Kevlar shell for flexibility.

J4381 and 4382 have foam nitrile dipped finish to provide excellent wet grip. J4381 HPPE/synthetic shell supplies cut, tear, and abrasion resistance. J4382 has HPPE and stainless steel liner to offer superior cut and abrasion resistance.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Polyurethane						
A2	4	HPPE	Black	XS, S, M, L, XL, 2XL	92723PU	**J4380**
A3	4	HPPE	Black	L, M, S, XL, 2XL	92733PU	**J4416**
A3	5	Dyneema®	White	XS, L, M, S, XL	9677	**E4241**
Nitrile						
A2	3	Kevlar®	Black/ Yellow	XS, S, M, L, XL, 2XL	9693	**J4397**
Foam Nitrile						
A2	5	HPPE	Black	S, M, L, XL, 2XL	92723NF	**J4381**
A6	4	HPPE, Stainless Steel	Black	S, M, L, XL, 2XL	92720NF	**J4382**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

ActivArmr Cut-Resistant Coated Gloves

Ansell

- For dry and light oil environments

Lightweight, proprietary knits and snug-fitting designs deliver breathable, second-skin dexterity for all-day protection.

Cold Weather High-Visibility—2-ply design provides superior protection from the elements. Soft acrylic terry layer keeps hands warm in cold conditions. Bright orange liner offers extra visibility, and contrasting black ¾ double-dipped, sandy-finish coating provides excellent grip.

Multipurpose Medium-Duty—Reinforced palm ridges and a layer of Kevlar withstand harsh abrasion and cuts and deliver excellent dexterity and precision while working with rough materials and power tools. Adjustable pull-tab wrist with ID nameplate.

Medium-Duty Hi-Viz—Highly visible bright orange liner and coating has a reflective logo to stand out in low light. Features Ansell Grip Technology to help wearers retain their grip on wet or oily objects, reducing fatigue, muscle strain, and risk of repetitive strain injury.

HVAC—Offers superior cut protection, enhanced wet/dry grip, and advanced dexterity while working with ducts and other sharp/jagged materials. Hook-and-loop neoprene closure with pull tab for tight fit.

Multipurpose Heavy-Duty—Versatile glove is engineered to deliver ultimate cut, puncture, and abrasion resistance for the most demanding jobs in construction, demolition, sheet metal, and masonry. Intercept Technology employs stainless steel and Kevlar fibers to protect against snips, screws, and sheet metal. Rugged construction features reinforced ridges for added palm and knuckle protection. Adjustable wrist closure with pull tab and ID nameplate.

Heavy Laborer—Ergonomic, breathable glove provides superior comfort and protection from punctures, cuts, and abrasions during extended periods handling concrete, wood, or metal debris. Intercept Technology employs stainless steel and Kevlar fibers to protect against snips, screws, and sheet metal. Reinforced gel-padded palm absorbs impact and vibration.

General Industry—Stretch armor yarn combines Kevlar and Intercept Technology to protect against snips, screws, and sheet metal to deliver excellent protection in general construction, installation, HVAC, and industrial tasks.

H6525

G9429

H6527

G4899

G9428

G6019

Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Material	Lining Material	Color	▶CHOOSE: Size	Mfr. Model	Item No.
¾ Dipped Coverage								
Cold Weather High-Visibility	A2	4	Nitrile	Acrylic, Latex, Polyester	High Visibility Orange	8, 9, 10, 11	97-011	**H6525**
Palm and Fingers Coating Coverage								
Multipurpose Medium-Duty	A2	4	Foam Nitrile	Kevlar®, Nylon, Spandex®	Black/Gray/Orange	S, M, L, XL	97-008	**G9429**
Medium-Duty HI-VIZ	A2	4	Water-Based Polyurethane/Nitrile	Polyester, Spandex®, Technor®	High-Visibility Orange	7, 8, 9, 10, 11	97-013	**H6527**
HVAC	A3	3	Foam Nitrile	Kevlar®, Nylon, Spandex®, Stainless Steel	Black/Blue	9, 10, 11	97-002	**G4899**
Multipurpose Heavy-Duty	A4	4	Foam Nitrile	Kevlar®, Lycra®, Nylon, Stainless Steel	Black/Gray/Orange	S, M, L, XL	97-009	**G9428**
Heavy Laborer	A4	4	Foam Nitrile	Kevlar®, Spandex®	Black/Blue	9, 10, 11	97-003	**G6019**
General Industry	A4	5	Foam Nitrile	Kevlar®, Lycra®, Polyester, Stainless Steel	Black/Blue	S, M, L, XL	97-505	**D1977**

MCR SAFETY

Cut-Resistant Coated Gloves

KS-5 series gloves blend Kevlar and stainless steel in the lightweight, high-dexterity shell to provide superior cut protection. Textured latex palm and finger coating enhances grip and puncture protection.

KS-4 series gloves have a textured HPT (Hydropellent Technology) coating that repels liquids to provide a firm wet or dry grip. ¾-dipped coverage gives added protection. Kevlar/stainless steel liner for high dexterity and puncture protection. Ideal for tasks such as sheet metal pressing, framing, and small part assembly.

D2003

J4378

Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Coverage	Color	▶CHOOSE: Size	Mfr. Model	Item No.
KS-5	A4	3	Palm	Black/Green	S, M, L, XL, 2XL	9389	**D2003**
KS-4	A4	4	¾	Black/Green	S, M, L, XL, 2XL	9389PV	**J4378**

Ansell

Cut-Resistant Natural Rubber Coated Gloves

- For dry and light oil environments
- Safety cuff

For general handling of abrasive materials such as brick, tile, glass, and metal. Crinkle-finish natural rubber coating provides excellent protection and durability. Soft cotton jersey knit lining for comfort and flexibility.

4T415

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Coverage	Color	Size	Mfr. Model	Item No.
A2	4	¾	Yellow	XL	16-347	**4T415**

SHOWA

Cut-Resistant Rubber Palm-Coated Gloves

Seamless Kevlar lining and rough natural rubber palm and finger coating provide both exceptional cut and abrasion resistance, and an outstanding wet and dry grip. Knuckles are uncoated to enhance breathability, flexibility, and dexterity. Launderable.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Lining Material	Color	▶CHOOSE: Size	Item No.
A3	4	Kevlar®	Blue/Yellow	S, M, L, XL, 2XL	**D1998**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

J7513

G9454

G9455

H6520

G6021

J2367

K2861

H6477

D1967

D1975

D1976

H6517

Ansell

HyFlex Cut-Resistant Palm-Coated Gloves

- For dry and light oil environments

Gloves are designed to balance comfort, protection, and dexterity for a wide range of industrial applications. **Foam nitrile coating** provides abrasion resistance and a firm, secure grip. **Polyurethane coating** offers tear and abrasion resistance and increases glove life.

Nylon/Spandex Lining—Style 11-731 has a lightweight 18-ga. liner that offers flexibility and good tactile sensitivity.

Style 11-550 liner is a blend of para-aramid, spandex, and nylon that offers comfortable all-day wear and heat protection up to 212°F.

Dyneema Lining—Style 11-518 is a lightweight 18-ga. glove that offers a breathable, barehanded feel. Dyneema Diamond Technology provides superior comfort, dexterity, and protection for precision handling and assembly of sharp, ultra-fine parts.

Style 11-435 antistatic seamless plaited glove combines glass fiber and nylon yarn with Dyneema fiber for cut protection. Eco-friendly coating provides enhanced dexterity and comfort.

HPPE Lining—Style 11-927 offers enhanced protection and a consistent grip on objects coated with lubricants in a wide range of viscosities. Oil-repellent Ansell Grip technology with ¾-dip geometry grips in medium-duty oily applications.

Style 11-531 has a lightweight liner and ZONZ Comfort Fit technology, with special yarn and stitching design. FORTIX abrasion resistance coating.

Style 11-644 features Ansell cut protection technology that combines a proprietary blend of high-performance polyethylene yarn (HPPE) with a polyurethane coating for enhanced cut protection, wear life, and comfort with a high level of dexterity.

Style 11-727 is made from ultralight, breathable fabric with excellent fingertip sensitivity for precise secure handling of parts or components.

Style 11-561 is thin and lightweight to give flexibility and comfort, while protecting hands from abrasion and cuts. Skin-friendly and certified harm-free.

Style 11-651 is a medium-duty glove with a seamless 13-ga. liner made with INTERCEPT cut resistance technology. Elasticized knitted wrist for snug fit.

Kevlar Lining—Style 11-500 delivers excellent cut protection and high tactile sensitivity with a breathable stretch liner. Black palm coating masks dirt.

Style 11-510 features proprietary nylon and Kevlar zonal plaiting on palm and back for flexibility, comfort, and durability with reinforced abrasion resistance. ZONZ comfort fit technology and ComfortFlex cuff result in more breathable, maneuverable nitrile gloves.

Kevlar/Stainless Steel Lining—Intercept Technology yarn blend offers superior cut resistance, light weight, and outstanding dexterity. Resists heat and molten splashes. Excellent for handling glass, sheet metal, wood, concrete blocks, and other jobs in construction, metal fabrication, and assembly.

Style 11-501 stretch liner fits bare-hand close, to reduce the risk of snags and provide outstanding dexterity.

Style 11-511 enhanced cuff overedging increases wrist elasticity.

Style 11-515 high-visibility materials ensure fingers can be seen while installing glass and doing other tasks.

Style No.	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Material	Coating Coverage	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Nylon/Spandex Lining									
11-731	A2	3	Polyurethane	Palm	Sandy	Gray/White	6, 7, 8, 9, 10, 11	11-731	**J5602**
11-550	A2	4	Foam Nitrile	Palm	Sandy	Black/Green	6, 7, 8, 9, 10, 11	11-550	**J7513**
Dyneema Lining									
11-518	A2	3	Polyurethane	Palm	Sandy	Blue/Blue	6, 7, 8, 9, 10, 11	11-518	**G9454**
11-435	A3	5	Polyurethane	Palm	Smooth	Black, Gray	6, 7, 8, 9, 10, 11	11-435	**G9455**
HPPE Lining									
11-927	A2	4	Nitrile	¾	Sandy	Black/Gray	6, 7, 8, 9, 10, 11	11-927	**H6520**
11-531	A2	4	Nitrile	Palm	Sandy	Gray	6, 7, 8, 9, 10, 11	11-531	**J2362**
11-644	A2	5	Polyurethane	Palm	Sandy	Gray/White	5, 6, 7, 8, 9, 10, 11, 12	11-644	**G6021**
11-727	A2	6	Polyurethane	Palm	Sandy	Gray	6, 7, 8, 9, 10, 11	11-727	**J2367**
11-561	A3	4	Nitrile	Palm	Smooth	Blue/Gray	5, 6, 7, 8, 9, 10, 11, 12	11-561	**K2861**
11-651	A3	6	Polyurethane	Palm	Sandy	Gray	6, 7, 8, 9, 10, 11	11-651	**J2379**
Kevlar Lining									
11-500	A2	3	Nitrile	Palm and Fingers	Smooth	Black, Yellow	8, 9, 10	11-500V	**H6477**
11-510	A2	4	Nitrile	Palm and Fingers	Sandy	Black, Yellow	XS, S, M, L, XL, 2XL	11-510	**D1967**
Kevlar/Stainless Steel Blend Lining									
11-501	A5	3	Foam Nitrile	Palm	Sandy	Blue/Gray	XS, S, M, L, XL, 2XL	11-501	**D1975**
11-511	A5	4	Foam Nitrile	Palm	Sandy	Green/Yellow	XS, S, M, L, XL, 2XL	11-511	**D1976**
11-515	A5	4	Foam Nitrile	Palm	Sandy	High-Visibility Orange/Yellow	6, 7, 8, 9, 10, 11	11-515	**H6517**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

SHOWA

Cut-Resistant Coated Gloves

S-TEX series gloves feature Hagane Coil design that combines Hagane stainless steel with polyester to provide a high level of cut resistance.

DURACoil—Engineered DURACoil liner of HPPE/polyester provides cut, abrasion, and oil resistance. Seamless knit gloves are breathable and flexible. Style 386 gloves have embossed microporous nitrile coating for firm grip.

ATLAS KV350—Oil-resistant nitrile palm coating. Liner is made with Kevlar for superior cut resistance. Rough surface palm for better grip.

S-TEX 376—¾ dipped nitrile-coated base that protects from abrasion, grease, and oil. An additional coating of nitrile foam covers the palm and fingertips to provide a secure grip in oily and wet conditions.

S-TEX 300—Form-fitting design allows maximum dexterity while the natural rubber palm coating has a rough textured finish for a secure grip under dry or wet conditions.

S-TEX 350—Nitrile coating on palms resists abrasion, snags, and punctures, and protects against petroleum, acids, and solvents. Stainless steel reinforced liner.

4568—Features Kevlar cut-resistant liner and sponge nitrile palm coating. Zorb-IT oil grip ensures optimum dexterity when working in greasy or oily environments.

K2124

J0990

G2616

G2618

K2038

G2403

S-TEX 541—Polyurethane coating offers dexterity, flexibility, and abrasion resistance, and protects hands from grease and oil. Liner is made with Kevlar and reinforced with stainless steel for superior cut resistance.

S-TEX 303—Feature a shell with the added combination of Kevlar to the stainless steel core for excellent hand protection from cuts and lacerations. Rubber palm coating for greater wet/dry grip and enhanced durability.

Description	ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Palm Material	Color	▶CHOOSE: Size	Item No.
DURACoil 546	A3	3	Polyurethane	Gray	S, M, L, XL, 2XL	**K2039**
ATLAS KV350	A3	3	Nitrile	Green/Yellow	S, M, L, XL	**K2541**
DURACoil 546W	A3	4	Polyurethane	White	S, M, L, XL, 2XL	**K2125**
DURACoil 386	A3	6	Nitrile	Gray	S, M, L, XL, 2XL	**K2124**
S-TEX 376	A4	4	Nitrile	Black/Blue/Gray	S, M, L, XL, 2XL	**J0990**
S-TEX 300	A4	4	Natural Rubber Latex	Black/Yellow	S, M, L, XL	**G2616**
S-TEX 350	A4	4	Nitrile	Green/Yellow	S, M, L, XL	**G2618**
4568	A4	4	Nitrile	Orange/Yellow	S, M, L, XL, 2XL	**K2038**
S-TEX 541	A4	6	Polyurethane	Black/Gray	S, M, L, XL, 2XL	**G2403**
S-TEX 303	A8	4	Natural Rubber Latex	Black/Yellow	S, M, L, XL	**G2617**

D2006

H0980

Cut-Resistant Nitrile Coated Gloves

Ansell

- For oily environments
- Safety cuff

Metalist—2-pc. liner is cotton with Kevlar reinforcement in high-stress areas. Flexible foam nitrile coating.

NitraSafe and NitraSafe Foam—Ergonomically designed gloves combine Kevlar-reinforced cotton jersey knit lining with advanced nitrile coating. Porous foam nitrile palm coating channels oil and grease from the surface.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Coating Coverage	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Metalist						
A2	3	¾	Maroon	S, M, L, XL	28-507	**D2006**
NitraSafe						
A3	4	Full	Black	M, L, XL	28-359	**D2017**
NitraSafe Foam						
A2	3	¾	Gold, Orange	M, L, XL	28-350	**D2014**
A2	4	Full	Burnt Orange	8, 9, 10	28-360	**H0980**

D2063

K2030

K3512

Cut-Resistant Latex Palm-Coated Gloves

HexArmor with SuperFabric.

- Knit cuff

9000 Series—D2063 has comfortable cotton-blend shell supplemented with durable SuperFabric on the palm that won't snag, fray, or tear. Textured rubber palm dip.

K2030 has polyethylene/glass fiber blend shell with SuperFabric palm material for cut resistance. Wrinkled rubber latex palm coating.

Helix 2061—Core9 13-ga. HPPE/steel/fiberglass blend shell for superior cut resistance. Flexible wrinkled rubber latex palm coating. Hi-vis back-of-hand increases visibility and safety.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Item No.
9000 Series				
A7	6	Black/Red	S, M, L, XL, 2XL	**D2063**
A7	6	Black/Gray	L, M, S, XL, 2XL	**K2030**
Helix 2061				
A9	3	Black, High Visibility Yellow	L, M, S, XL, XS, 2XL, XXS, 3XL	**K3512**

Cut-Resistant Gloves for Oilfield Environments

Ansell

- ¾ dipped
- Hi-visibility colors boost safety

Oilfield Services—Oil-resistant, water-resistant glove with Ansell Grip technology for a firm grip even under wet or oily conditions. Provides thermal protection from contact with heated pipes and vessels. Made with Kevlar yarns for added cut resistance. Neoprene/nitrile coating. Hi-vis design includes a retroreflective logo for low-light signaling.

H6528

J0290

Oil and Impact—Designed for the most rugged and demanding environments. Oil-impermeable barrier repels drilling fluids and oil to keep hands clean and dry. Features TPR impact protection on the back of hand, and nitrile coating on palm for enhanced mud-oil grip.

ANSI/ISEA Cut Level	ANSI/ISEA Abrasion Level	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Oilfield Services					
A2	4	Orange	8, 9, 10, 11, 12	97-100	**H6528**
Oil and Impact					
A2	4	Hi-Vis Orange	8, 9, 10, 11, 12	97-120	**J0290**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

J0987

J4379

D6133

Cut-Resistant Knit Gloves with Arc Flash & Flame-Resistant Protection

- Meet NFPA 70E standards

Showa—Palm-dipped neoprene coating with sponge grip protects against liquids and abrasion. 13-ga. liner is made with Kevlar.

MCR Safety—Palm-dipped neoprene/nitrile coating is resistant to liquids, chemicals, and oils. Protect from medium-level cut hazards with Kevlar synthetic shell.

Ansell—Offer protection along with an ergonomic fit and pliable comfort. Glass fiber, modacrylic, and Kevlar materials retain their flame resistance after washing. Stainless steel filament core. Foam neoprene palm coating offers flexibility and a secure grip.

ANSI/ISEA Cut Level	ATPV Rating	Color	▶CHOOSE: Size	Brand	Item No.
A3	9.2 cal/sq cm	Black/Gray	S/7, M/8, L/9, XL/10, 2XL/11	Showa	**J0987**
A4	4 cal/sq cm	Black/Green	S/7, M/8, L/9, XL/10, 2XL/11	Mcr Safety	**J4379**
A4	9.4 cal/sq cm	Black/Green	XS/6, S/7, M/8, L/9, XL/10, 2XL/11	Activarmr	**D6133**

G6926

K2816

J7656

Cut-Resistant Leather Gloves with Arc Flash & Flame-Resistant Protection

Made of goatskin leather for superior dexterity, abrasion, tear, and water resistance.

Youngstown—gloves are made of 18-oz. leather with 4" cuff for wrist protection. Lined with Kevlar for additional cut protection and exceed ASTM D6413 for flame resistance. Meet ASTM F2302.

MCR Safety—gloves have a Kevlar liner for added cut resistance. Meet NFPA 70E standards. K2816 and K2818 have a Nomex back. K2819 and K2762 are full leather palm and back.

HexArmor—premium leather gloves have Aramid liner and extended cuff for extra protection.

MechanixWear—gloves are made from tough DuraHide leather with a high tensile strength liner. Stretch elastic cuff for easy on/off.

ANSI/ISEA Cut Level	ATPV Rating	Cuff Style	Color	▶CHOOSE: Size	Brand	Item No.
A2	55.0 cal/sq cm	—	Tan	S, M, L	Youngstown Glove Co.	**G6926**
A4	24.7 cal/sq cm	Shirred Slip-On	Green/ Brown	M, L, XL	Mcr Safety	**K2816**
A4	24.7 cal/sq cm	Gauntlet	Brown	M, L, XL	Mcr Safety	**K2818**
A4	61.4 cal/sq cm	Shirred Slip-On	—	M, L, XL, 2XL	Mcr Safety	**K2762**
A4	61.4 cal/sq cm	Gauntlet	Brown	M, L, XL, 2XL	Mcr Safety	**K2819**
A5	46 cal/sq cm	Straight	Gray	L, M, S, XL, 6, 11, 12	HexArmor	**J7656**
A9	22 cal/sq cm	Shirred Slip-On	Tan	8, 9, 10, 11, 12	Mechanix Wear	**K2754**

J7655

J7530

J5013

K2245

K2607

Cut-Resistant Goatskin Leather Gloves

- Provide full hand protection

Goatskin is a soft, supple leather that offers excellent dexterity and resists abrasion, tears, and water. Drivers-style gloves are form-fitting to provide comfort and sensitivity.

ANSI/ISEA Cut Level	Thumb Style	Cuff Style	Color	▶CHOOSE: Size	Brand	Item No.
Aramid Glove Liner						
A5	Keystone	Shirred Slip-On	Black	S, M, L, XL, 2XL, 3XL	Bdg	**K2608**
A5	Keystone	Shirred Slip-On	Pearl	S, M, L, XL, 2XL, 3XL	Bdg	**K2609**
A5	Keystone	Shirred Slip-On	Light Gray, Orange	L, M, S, XL, XS, 2XL, 3XL, 4XL, 5XL	HexArmor	**J7655**
Dyneema Diamond Glove Liner						
A4	Keystone	Shirred Slip-On	White	L, M, XL, 2XL	Mcr Safety	**J7530**
HPPE Glove Liner						
A4	Keystone	Shirred Slip-On	Camel Brown	S, M, L, XL, 2XL	Ironclad	**J5013**
A4	Wing	Shirred Slip-On	High Visibility Yellow, Red, White	S, M, L, XL, 2XL, 3XL	Ringers Gloves	**K2245**
A5	Wing	Hook-and-Loop	White	M, L, XL, S, 2XL, 3XL	Ringers Gloves	**J7526**
A5	Wing	Shirred Slip-On	High Visibility Yellow, Red, White	8, 9, 10, 11, 12, 13	Ringers Gloves	**K2061**
Kevlar Glove Liner						
—	Keystone	Shirred Slip-On	Pearl	XS, S, M, L, XL, 2XL	Bdg	**K2606**
—	Keystone	Gauntlet	Pearl	XS, S, M, L, XL, 2XL	Bdg	**K2607**
A2	Keystone	Shirred Slip-On	Gray	S, M, L, XL	Condor	**D1586**
A5	Straight	Shirred Slip-On	White	S, M, L, XL, 2XL, 3XL	Mcr Safety	**H5449**
SuperFabric Glove Liner						
A6	Keystone	Shirred Slip-On	Gray, White	S, M, L, XL, 2XL, 12, XS	HexArmor	**D2071**
A8	Keystone	Hook-and-Loop	High Visibility Yellow, White	XS, S, M, L, XL, 2XL, 3XL	HexArmor	**J7507**

J3478

J3802

D6162

K3352

Cut-Resistant Cowhide Leather Gloves

Work gloves provide excellent abrasion resistance and protection from incidental heat and sparks. Cowhide is a durable and comfortable leather that maintains a good appearance over time.

ANSI/ISEA Cut Level	Thumb Style	Cuff Style	Back Material	Cut-Resistance Coverage	Color	▶CHOOSE: Size	Brand	Item No.
Unlined								
A2	Straight	Extended Gauntlet	Cowhide	Palm Side	Gray	L, M, S, XL	Mcr Safety	**J7533**
A2	Straight	Safety	Cowhide	Palm Side	Gray	L, M, S, XL	Mcr Safety	**J7532**
Kevlar Glove Liner								
A3	Wing	Safety	Cotton Canvas	Full	Gray	S, M, L, XL, 2XL	Mcr Safety	**J3478**
A3	Wing	Safety	Cotton Canvas	Palm Side	Gray	M, L, XL	Mcr Safety	**D1587**
A3	Wing	Safety	Kevlar®	Full	Gray	S, L, XL	Condor	**D6162**
A5	Wing	Safety	Cotton Twill	Full	Gray/Tan	L, M, S, XL, 2XL	Superior Glove	**J3802**
Corecept Glove Liner								
A5	Wing	Gauntlet	Cowhide	Palm Side	—	L, M, S, XL, XS, 2XL	HexArmor	**K3352**
Alycore Glove Liner								
A9	Keystone	Shirred Slip-On	Cowhide	Palm Side	Beige	M, L, XL, 2XL	Mcr Safety	**K2610**
A9	Wing	Safety	Cowhide	Palm Side	Gray	M, L, XL, 2XL	Mcr Safety	**K2611**

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

Needlestick-Resistant Mechanic's Gloves

Provide protection against needlesticks, abrasion, lacerations, and cut hazards for at-risk workers including law enforcement, hospitality, sanitation, and recycling staff.

Clutch Gear—Hi-Viz stretchable nylon back with Sure Grip palm patches. K2456 palms are lined with Punkban combined with Kevlar fiber for superior puncture resistance. K2457 is fully lined with the same material - palm and back.

Hercules NSR 3041—Made of layered SuperFabric material. Palm has silicone gripping surface.

PointGuard Ultra 4041—Layered SuperFabric material on enhanced areas. Knuckle padding on back of hand for impact protection and patterned silicone palm grip.

ThornArmor 3092—3 layers of SuperFabric in the durable TP-X palm. Breathable HexVent panel on back of hand for comfort.

K2457

J3179

G2435

K2345

Description	ANSI/ISEA Needlestick Level	ANSI/ISEA Cut Level	ANSI/ISEA Puncture Level	Color	▶CHOOSE: Size	Brand	Item No.
Clutch Gear MXHVPB	4 - Palm Side	A3	4	Black/ Lime	S, M, L, XL, 2XL	Superior Glove	K2456
Clutch Gear MXHV2PB	5 - Palm Side	A5	5	Black/ Lime		Superior Glove	K2457
Hercules NSR 3041	5 - Back Side, 5 - Palm Side	A9	3	Black	XXS, S, M, L, XL, 2XL	HexArmor	J3179
PointGuard Ultra 4041	5 - Palm Side	A9	3	Black		HexArmor	G2435
ThornArmor 3092	5 - Palm Side	A9	4	—		HexArmor	K2345

Cut-Resistant Mechanic's Gloves

Command—Feature touch-screen synthetic suede palm with breathable polyester knit back of hand. J7556 and K2346 have reinforced padded palm and TPR back-of-hand and thumb impact protection. J7555 has neoprene knuckle impact protection.

Industrial Impact Rigger—Reinforced Duraclad synthetic leather palm and a cut-resistant reinforced rope channel for firm grip. Back-of-hand impact protection.

KONG Deck Crew—4-layer PTFE treated Armortex palm for oil and water resistance. Spandex back with TPR impact protection.

KONG SDX2—Highly abrasion resistant with full back-of-hand impact protection. Synthetic leather palm with PVC/PU grip dots for firm gripping power.

Vibram O.B.M.—Designed for impact protection plus maximum grip in saturated conditions, including oil-based mud (O.B.M.). PTFE protection on shell fabrics. Vulcanized rubber palm.

K2346

J7555

J4905

J4123

ANSI/ISEA Cut Level	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
Command				
A2	Adjustable	Orange/Yellow, Black, Brown	S, M, L, XL, 2XL	J7556
A2	Hook-and-Loop	Hi-Vis Orange/ Yellow		K2346
A2	Slip-On	Orange, Yellow, Black, Brown	S, M, L, XL, 2XLS, M, L, XL, 2XL	J7552
A2	Adjustable	Orange/Yellow, Black, Brown		J7555
Industrial Impact Rigger				
A5	Gauntlet	Black/Orange	S, M, L, XL, 2XL, 3XL	J4905
KONG Deck Crew				
A4	Gauntlet	Green/Red	S, M, L, XL, 2XLS, M, L, XL, 2XL	J4123
KONG SDX2				
A2	Gauntlet	Green/Yellow	S, M, L, XL, 2XL, 3XL	J7585
VIBRAM O.B.M.				
—	Gauntlet	Black/ Hi-Vis Yellow/ Orange	S, M, L, XL, 2XL, 3XL	J4899

Cut-Resistant Leather Palm Mechanic's Gloves

- Synthetic leather palm

Chrome—Breathable, water-resistant, durable SuperFabric material provides high level of cut and puncture protection. **D2068** has SuperFabric knuckle patch for added protection. **G2434 and J2637** feature back-of-hand impact protection system that dissipates forceful blows over a large area. G2434 has Mud Grip palm with PVC dots; J2637 has oil-resistant TP-X palm. **K2371** has oil and abrasion-resistant palm to enhance grip while providing dexterity. Touchscreen compatible thumb and index fingertip. **J4487** has TP-X palm for durability and firm grip in wet and dry applications. **G2430** has PVC palm to enhance grip in dry and light oil applications while providing dexterity. SuperFabric knuckle patch for extra protection.

Chrome SLT—HPPE blend liner provides 360° cut resistance. High dexterity, form-fitting gloves are made from hi-visibility materials. **J7657 and J7658** feature back-of-hand impact protection. J7657 has abrasion-resistant PVC dots on palm; J7658 has TP-X palm.

GGT5 4021X—SuperFabric material and Impact Exoskeleton design with high-performance IR-X smash guards to provide full back-of-hand impact protection. Proprietary Mud Grip with PVC dots.

Rig Lizard—High-flex Impact Exoskeleton design protects against impact to back of hand. Curved, high-dexterity shape and high-visibility colors. SuperFabric material provides superior cut resistance. **K3356** hasTP-X+ palm and elastic cuff for a secure fit. **K3355** has silicone pattern on palm to provide superior grip. SlipFit cuff with hook-and-loop closure.

D2068

J2637

J7657

G2429

K3355

ANSI/ISEA Cut Level	ANSI/ISEA Puncture Level	Cuff	Color	▶CHOOSE: Size	Item No.
Chrome					
A6	3	Hook-and-Loop	Black/Blue	S, M, L, XL, 2XL	D2068
A8	2	Hook-and-Loop	Black/High-Visibility Green	XS, S, M, L, XL, 2XL, 3XL	G2434
A8	2	Hook-and-Loop	High-Visibility Yellow/ Navy Blue		J2637
A8	2	Slip Fit	Black/ Hi-Vis Yellow	S, M, L, XL, 2XL	K2371
A8	2	Hook-and-Loop	Black/High-Visibility Yellow	S, M, L, XL, 2XL, 3XL	J4487
A8	2	Hook-and-Loop	Black/Red	S, M, L, XL, 2XL	G2430
Chrome SLT					
A6	2	Elastic/Hook-and-Loop	Gray/High-Visibility Orange	XS, S, M, L, XL, 2XL, 3XL	J7657
A6	2	Elastic/Hook-and-Loop	Gray/High-Visibility Orange		J7658
A6	2	Slip Fit	Gray/High-Visibility Orange		J7659
GGT5 4021X					
A8	5	Slip Fit	Black/High-Visibility Yellow/Orange	S, M, L, XL, 2XL	G2429
Rig Lizard					
A6	—	—	High-Visibility Yellow	XS, S, M, L, XL, XXL, XXXL	K3356
A6	3	—	High-Visibility Yellow	S, M, L, XL, XXL, XXXL	K3355

Cut-Resistant Mechanic's Gloves

- Synthetic leather palm
- Touchscreen compatible
- Form-fitting high-visibility TrekDry material keeps hands cool and comfortable

FastFit —Reinforced thumb and index finger. Stretch-elastic cuffs for a secure fit.

Hi-Viz Original—Breathable back and reinforced thumb and index finger.

M-Pact—Features TPR impact and pinch-point protection for knuckles and fingers. D30 palm padding helps reduce hand fatigue. Armortex palm reinforcement enhances cut resistance.

K2368

H7893

H7894

Description	ANSI/ISEA Cut Level	Glove Liner Material	Color	▶CHOOSE: Size	Item No.
FastFit TrekDry	A4	HPPE	High-Visibility Yellow	8, 9, 10, 11, 12	K2368
Hi-Viz Original	A4	HPPE	High-Visibility Yellow		K2369
Hi-Viz Original	A5	Armortex®	Yellow		H7893
M-Pact	A4	HPPE	High-Visibility Yellow		K2370
M-Pact	A5	Armortex®	Yellow		H7894

Scan. Order. Done.
Details on page A1.

Find Glove sizing information on page 1687; Cut and Abrasion Resistance information on page 1696.

D2059

D2062

J2644

K4995

K4996

Cut-Resistant Arm Guards and Sleeves

HexArmor with SuperFabric.

- Sold individually

Arm Guard and Sleeve—Durable SuperFabric guard plate provides high levels of puncture and cut protection. Material is lightweight and won't snag, fray, or tear. Adjustable hook-and-loop closure provides a snug fit that stays in place.

PentaArmor 1010—SuperFabric material sleeve provides high level of cut and puncture protection. High-visibility color for safety on the jobsite. Elastic thumb loop and sleeve clip hold sleeve in place.

Helix 2042—Lightweight 13-ga. seamless knit sleeve is made from a blend of HPPE, nylon, steel, and fiberglass. Knit upper arm and wrist cuffs for a snug fit.

AG9X Arm Guard—SuperFabric material with industrial puncture protection over forearm. Extended cuff with neoprene thumbhole.

Description	ANSI/ISEA Cut Level	L	Color	▶CHOOSE: Size	Item No.
Arm Guard with Spandex Wrist Insert and Thumbhole	A7	9 in	Gray	S, M, L, XL, 2XL, XS, 3XL	D2059
Arm Sleeve with Neoprene Thumbhole and Alligator Sleeve Clip	A7	19 in	Black	S, M, L, XL, 2XL, XS	D2062
PentaArmor 1010 Sleeve with Thumbhole	A7	19 in	Green	S, M, L, XL, 2XL	J2644
Helix 2042 Sleeve without Thumbhole	A7	18 in	Blue	L, M, S, XL	K4995
AG9X Arm Guard with Thumbhole	A7	9 in	Gray	L, M, S, XL, 2XL	K4996

3CZN2

Cut-Resistant Sleeves

Honeywell

- 1 size fits most
- Sold individually

Ambidextrous sleeves are made of soft, lightweight, high-performance HPPE/stainless fiber blend with improved stretch for longer wear as they offer protection against abrasion, slashes, cuts, and heat. Sleeves with thumbhole help keep the sleeve in place and provide additional wrist protection.

ANSI/ISEA Cut Level	L	Color	Item No.
Without Thumbhole			
4	14 in	White	3CZN2
4	18 in	White	3CZN5
With Thumbhole			
4	14 in	White	3CZN3
4	18 in	White	3CZN6

3CZK7

3NZA1

K4599

Cut-Resistant Sleeves

Condor

- 1 size fits most
- Sold individually

Flexible design with snug fit conforms to the arm for less obstruction while working. Protects against cuts, slashes, abrasion, and heat in fabrication, recycling, canning, assembly, and steel manufacturing, and when handling glass, steel, or sheet metal. Knitted arm guard provides comfort and stretch at the bottom of the sleeve. Sleeves with thumbhole offer extra wrist protection while helping hold the sleeve in place.

ANSI/ISEA Cut Level	L	Color	Item No.
Kevlar/Cotton Blend without Thumbhole			
A2	14 in	Yellow	3CZK6
A2	18 in	Yellow	3CZK8
Kevlar/Cotton Blend with Thumbhole			
A2	14 in	Yellow	3CZK7
A2	18 in	Yellow	3CZK9
Kevlar/Cotton Blend with Thumbhole and Full-Length Leather Reinforcement			
A3	14 in	Yellow	3NZA1
A3	18 in	Yellow	3NZA2

ANSI/ISEA Cut Level	L	Color	Item No.
Kevlar without Thumbhole			
A3	10 in	Yellow	4BC20
A3	10 in	Black	K4599
A3	14 in	Yellow	3AM12
A3	14 in	Black	3NYZ7
A3	18 in	Yellow	6AH87
A3	18 in	Black	3NYZ8
A3	24 in	Yellow	5AH26
A3	24 in	Black	3NYZ9
Kevlar with Thumbhole			
A3	10 in	Yellow	5AJ47
A3	14 in	Yellow	2AF37
A3	18 in	Yellow	2AG29
A3	24 in	Yellow	3BC99

48NU14

52RU01

1FEX9

1TDV8

52RT91

Ansell

Cut-Resistant Sleeves

- Sold individually

Sleeves with thumbhole help hold the sleeve in place and extend protection over the wrist.

Intercept—Sleeves deliver high level of protection with proprietary Intercept cut-resistant technology.

Kevlar—Medium-duty sleeves combine Kevlar Armor and standard Kevlar fibers for outstanding protection against slashes, cuts, abrasion, and heat.

Nylon—Light-duty sleeves are double layered with soft nylon for a comfortable fit.

ANSI/ISEA Cut Level	L	Thickness	Color	Size	Item No.
Intercept without Thumbhole					
Hyflex 11-210					
A2	18 in	13 ga	Gray	S	48NU15
A2	18 in	13 ga	Gray	L	48NU14
Hyflex 11-250					
A3	12 in	15 ga	Black	S	52RT94
A3	12 in	15 ga	Black	L	52RT93
A3	16 in	15 ga	Black	S	52RT96
A3	16 in	15 ga	Black	L	52RT95
A3	18 in	15 ga	Black	S	52RT98
A3	18 in	15 ga	Black	L	52RT97
Hyflex 11-280					
A4	12 in	15 ga	Gray	S	492U42
A4	12 in	15 ga	Gray	L	492U43
A4	16 in	15 ga	Gray	S	492U44
A4	16 in	15 ga	Gray	L	492U45
A4	18 in	15 ga	Gray	S	436A71
A4	18 in	15 ga	Gray	L	436A72
A4	22 in	15 ga	Gray	S	492U46
A4	22 in	15 ga	Gray	L	492U47
Intercept with Thumbhole					
Hyflex 11-211					
A2	18 in	13 ga	Gray	S	48NU17
A2	18 in	13 ga	Gray	L	48NU16
Hyflex 11-251					
A3	12 in	15 ga	Black	S	52RU01
A3	12 in	15 ga	Black	L	52RT99
A3	16 in	15 ga	Black	S	52RU03
A3	16 in	15 ga	Black	L	52RU02
A3	18 in	15 ga	Black	S	52RU05
A3	18 in	15 ga	Black	L	52RU04
Kevlar without Thumbhole					
Hyflex 70-718					
A4	12 in	7 ga	Green	Universal	1FEX9
A4	18 in	7 ga	Green	Universal	1FEY1
Kevlar with Thumbhole					
Hyflex 59-408					
A2	22 in	—	Yellow	Universal	1TDV8
A2	26 in	—	Yellow	Universal	1TDV9
Nylon without Thumbhole					
Hyflex 11-270					
A2	10 in	24 ga	Gray	Universal	52RT88
A2	16 in	24 ga	Gray	Universal	52RT89
A2	18 in	24 ga	Gray	Universal	52RT90
Nylon with Thumbhole					
Hyflex 11-271					
A2	16 in	24 ga	Gray	Universal	52RT91
A2	18 in	24 ga	Gray	Universal	52RT92

Condor

Cold-Condition Coated Gloves

- Hi-vis orange color
- Smooth finish

Fully coated with durable PVC to provide abrasion resistance and tactility while the foam/jersey liner provides flexibility and dexterity.

Cuff	Size	Item No.
Knit Wrist	L	4NMU2
Safety	L	4NMU3
Gauntlet	L	4NMU4

4NMU3

MCR SAFETY

Cold-Condition Coated Gloves

- Minimum temp: 5°F

Actifresh treated for antimicrobial protection and odor control.

Harbor Master—Fluorescent, double-dipped PVC gloves feature internal knit wrist and foam/polar fleece liner for warmth. Textured finish.

6712F—Single-dipped PVC coating with smooth finish. Insulated with foam lining for warmth.

49DC03

5WUL6

Description	Cuff Style	Color	Size	Mfr. Model	Item No.
Harbor Master	Knit	High-Visibility Orange	L	6714FF	5WUL6
6712F	Gauntlet	High-Visibility Orange	L	6712F	49DC03

K5255

J3388

K2773

RINGERS GLOVES® MCR SAFETY

Cold-Condition Insulated Mechanic's Gloves

- Thinsulate insulation keeps hands warm in extreme conditions

RINGERS GLOVES

Insulated thermal gloves combine a waterproof barrier and impact protection to provide maximum comfort and protection in the most demanding environments. Developed with Ringers' F3 Technology for superior dexterity and employ tough TPR impact protection. Touchscreen compatible index, middle and thumb tips.

Super Hero— Medium-duty gloves have added palm PVC patches. Extended cuff with gaiter closure.

Zero—Heavy-duty gloves have a silicone dot palm with PVC grip patch system, providing excellent protection and grip under any conditions. Gaiter closure increases safety and security.

Roughneck—Heavy-duty gloves with synthetic leather palm and grip patch system. Extended neoprene wrist closure with TPR pull tab.

Sub-Zero—Heavy-duty gloves have leather 2-layer palm with PVC grip patch system. Gaiter closure increases safety and security.

MCR SAFETY

Waterproof/windproof barrier and hi-vis snow/water resistant back-of-hand fabric keep hands warm and dry. Inner elastic snow/ice cuff keeps moisture out. MAXGrid material on the palm provides firm grip in dry, wet, and oily conditions. Touchscreen friendly fingertips.

Series	Glove Insulation Weight	Glove Liner Material	Color	▶CHOOSE: Size	Brand	Item No.
Super Hero	70 g	HPPE	Black/High-Visibility Yellow/Red	S, M, L, XL, 2XL, 3XL	Ringers Gloves	K2107
Zero	100 g	Polyester	High-Visibility Yellow/Red	S, M, L, XL, 2XL, 3XL	Ringers Gloves	G7112
Roughneck	100 g	Polyester	Black/High-Visibility Yellow/Red	S, M, L, XL, 2XL, 3XL	Ringers Gloves	K5255
Subzero	150 g	Kevlar®	Black/High-Visibility Yellow/Red	S, M, L, XL, 2XL, 3XL	Ringers Gloves	J3388
982	100 g	HPPE	High-Visibility Orange	M, L, XL, 2XL	Mcr Safety	K2773
983	200 g	Thinsulate™	High-Visibility Orange	M, L, XL, 2XL	Mcr Safety	K2774

4JU99

K3646

Ansell

Cold-Condition Coated Gloves

ActivArmr 23-173 and 23-193 gloves are fully coated with a durable, abrasion-resistant PVC coating that repels water, oil, and grease, while remaining flexible at low temperatures. Foam insulation ensures hands stay warm and dry. Meet EN 511-111 contact cold standards.

ActivArmr 97-681 gloves have a PVC foam coating that remains flexible in temperatures as low as -25˚C/-15˚F. RIPEL Technology liquid-repellent surface barrier makes them fully waterproof. 2-layer construction combines a PVC-coated nylon exterior with a soft acrylic interior, for comfort and warmth.

Description	Coating Finish	▶CHOOSE: Size	Color	Mfr. Model	Item No.
ActivArmr 23-173	Rough	L	Tan	23-173	4JU99
ActivArmr 23-193	Smooth	L	Tan	23-193	4JY10
ActivArmr 97-681	Rough	8, 10, 11	Blue/Yellow	97-681	K3646

D1616

D1619

NATIONAL SAFETY APPAREL®

Cryogenic Gloves

- Meet EN 511 standard
- Sold by the pair

Gloves provide excellent thermal protection for hands and arms in ultracold environments (-260° to -300°F) and cryogenic atmospheres. SaferGrip gloves feature silicone-coated material in the palm for enhanced grip and durability. 100% Waterproof gloves provide additional protection against cryogenic splashes. Not intended for immersion in liquid cryogens.

Note: Cryogenic aprons are offered on page 1751.

Description	L	▶CHOOSE: Size	Item No.
Wrist Length Gloves			
Water-Resistant	12"	S, M, L, XL	D1616
Mid-Arm Length Gloves			
Water-Resistant	14 to 15"	S, M, L, XL	D1617
SaferGrip Palm	14 to 15"	S, M, L, XL	D1652
100% Waterproof	14 to 15"	S, M, L, XL	D1618
Elbow Length Gloves			
Water-Resistant	17 to 18"	S, M, L, XL	D1619
SaferGrip Palm	17 to 18"	M, L, XL	D1653
100% Waterproof	17 to 18"	M, L, XL	D1621
Shoulder Length Gloves			
Water-Resistant	26 to 27"	S, L, XL	D1622
SaferGrip Palm	26 to 27"	M, L, XL	D1654
100% Waterproof	26 to 27"	M, L, XL	D1623

Find more information about gloves and glove sizing on page 1687.

Glove Coating and Lining Materials

COATING MATERIALS

Foam Nitrile—Cushioned base with a tacky surface to provide a secure positive grip when twisting and turning objects. The most breathable nitrile with better flexibility and less resistance to water and oil than smooth nitrile.

Foam Latex—Provides a good sense of touch and a spongy, tacky surface for a better grip than standard latex when twisting or turning parts. More breathable, flexible, and has better grip than latex, but is less water resistant.

Latex—Natural rubber latex has elasticity that provides resistance to abrasion, punctures, and tears with a safe, secure grip. Can be used over a wide range of temperatures to provide a good grip when handling wet and dry parts. Protects against weak acids, alcohols and detergents.

Microporous Nitrile—Provides better breathability and grip for twisting and turning than standard nitrile. Less breathable and has less gripping power than foam nitrile.

Nitrile—A synthetic rubber that resists snags, punctures, abrasion, and cuts, and provides resistance to acids, some organic solvents, oils, grease, and fuels. Offers a good grip when handling dry, greasy, and oily parts. A good option for people with latex allergies.

Polyurethane—Flexible synthetic material provides abrasion resistance and good grip. Provides good tactile sensitivity and dexterity and good grip in dry and light oily conditions and over a wide range of temperatures.

Polyurethane/Nitrlie—Combination of nitrile and polyurethane that provides durability, abrasion resistance, softness, and dexterity.

PVC—Synthetic thermoplastic polymer provides abrasion resistance, tactility, and dexterity combined with wet and dry grip. Remains flexible at colder temperatures and provides good durability and resistance to chemicals.

LINING MATERIALS

Bamboo—Lighter, softer, and more absorbent than cotton or synthetic materials. Breathable material wicks moisture away from the skin. 100% natural bamboo knit shells are inherently strong, antibacterial, biodegradable, and provide UV protection.

Cotton—Lightweight, soft material is comfortable and breathable for extended wear.

Dyneema—Polyethylene-based fiber provides superior cut and abrasion resistance. Lightweight for enhanced dexterity and sensitivity.

HPPE—High-performance polyethylene material has high tensile strength and provides high levels of cut and abrasion resistance.

Nylon—Lightweight lining provides high tensile strength and dexterity.

Nylon/Spandex—Lightweight lining provides high tensile strength and dexterity. Spandex blend improves stretch and flexibility.

Polyester—Durable, economical lining wicks moisture away from the skin.

SHOWA

Polyurethane-Coated Gloves

D1466

D1467

Breathable nylon gloves are ideal for precise or delicate tasks that require touch sensitivity and dexterity. Polyurethane coating on palm helps increase grip and abrasion resistance. Commonly used for electronics, laboratories, semiconductors, component assembly, and applications requiring precision and cleanliness.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
3	13	Nylon	Gray/Black	S, M, L, XL, 2XL	D1466
3	13	Nylon	White	S, M, L, XL, 2XL	D1467

Polyurethane Palm-Coated Gloves

Ansell

- Knit wrist cuff for comfort

Hyflex gloves provide firm grip and abrasion resistance, while offering superior dexterity for industrial applications.

48-101—Snug fit with high tactile sensitivity and dexterity. Lightweight nylon liner for everyday wear. Use for light-duty handling, assembly, repair, and maintenance.

11-600—High tactile sensitivity for intricate tasks and handling of delicate parts and components.

11-618—Ultralight liner and thin PU palm coating optimize dexterity and tactile sensitivity.

D1465

G9453

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Hyflex 48-101						
3	13	Nylon	Black	6, 7, 8, 9, 10, 11	48-101	D1465
HyFlex 11-600						
3	15	Nylon	White	5, 6, 7, 8, 9, 10	11-600	G9276
3	15	Nylon	Black/Gray	11, 6, 7, 8, 9, 10	11-600	D1468
HyFlex 11-618						
3	18	Nylon	Black/Blue	6, 7, 8, 9, 10, 11	11-618	G9453

Polyurethane/Nitrile Palm Coated Gloves

MCR SAFETY

- For dry and light oil environments

Ninja X gloves have nylon/lycra blend shell with bipolymer coating for high abrasion resistance. Treated with Actifresh to kill bacteria and prevent odor.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
4	15	Nylon / Lycra	Black	S, M, L, XL	N9674	D1522

D1464

D1462

G6625

Polyurethane-Coated Gloves

Condor

- For dry environments

Lightweight gloves with smooth finish provide excellent dexterity and abrasion resistance. D1464 is ¾ dipped for additional protection around the knuckles and back of hand.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
¾ Dipped					
3	13	Nylon	Gray/Black	S, M, L, XL, 2XL	D1464
Palm and Fingers					
3	13	Polyester	Black	XS, S, M, L, XL, 2XL	G6626
3	13	Nylon	White	S, M, L, XL, 2XL	D1461
3	13	Nylon	Gray/White	S, M, L, XL, 2XL	D1462
3	13	Nylon	Gray/Black	S, M, L, XL, 2XL	J4916
3	15	Nylon	Gray/Black	XS, S, M, L, XL, 2XL	G6627
3	15	Nylon	White	S, M, L, XL, 2XL	G6628
3	18	Nylon	Blue/Black	S, M, L, XL	G6625

Polyurethane Palm-Coated Gloves

MCR SAFETY

- For dry environments
- Knit wrist cuff

Flat-dipped palm and finger coating provide grip and dexterity for small parts handling.

H6292

D1644

NXG—Silicone-free seamless knit construction with good tactile sensitivity, dexterity, and abrasion resistance. Hems are color-coded by size.

Ninja Lite—Engineered for a feather-light 2nd skin feeling, with a skintight athletic-grade shell. Offer high abrasion resistance along with dexterity and a great sense of touch.

ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
NXG						
2	13	Nylon	White	XS, S, M, L, XL	9665	J4460
3	13	Nylon	Gray	XS, S, M, L, XL, 2XL	9666	G6476
3	13	Nylon	Black	XS, S, M, L, XL, 2XL	9669	H6292
Ninja Lite						
3	18	Nylon	Black/Blue	XS, S, M, L, XL	N9696	D1644

Find Glove sizing information on page 1687; Palm Coating and Liner information on page 1706.

Condor

Nitrile-Coated Knit Gloves

- For dry and light oil environments

Light-duty gloves are designed for dexterity, flexibility, a secure grip, and to provide protection from abrasion, snags, cuts, and punctures. Durable synthetic nitrile coating resists grease, oils, and aromatic and chlorinated solvents. Suitable for wearers with latex allergies. Flat-dipping curves the gloves like a hand for reduced hand fatigue and to help stay productive in a wide variety of jobs. Comfortable knit wrist helps keep dirt and debris out of the glove.

Smooth coating offers excellent fingertip and hand sensitivity. Foam coating has a spongy texture to improve grip when twisting and turning parts. Sandy coating has a rough surface for stronger grip.

D1515

G6624

D1539

D1512

ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
¾ Dipped						
4	Smooth	13	Nylon	Gray/Black	S, M, L, XL, 2XL	**D1515**
Palm Coated						
3	Smooth	10	Polyester	Black	S, M, L, XL, 2XL	**G6623**
3	Smooth	13	Nylon	Green	S, M, L, XL, 2XL	**J4909**
4	Smooth	10	Polyester/Cotton	White/Blue	S, M, L, XL	**G6624**
4	Foam	13	Nylon	Gray/White	S, M, L, XL, 2XL	**D1539**
4	Smooth	13	Polyester	Blue/White	S, M, L, XL, 2XL	**H6884**
4	Smooth	13	Nylon	Gray/White	S, M, L, XL, 2XL	**D1512**
4	Foam	15	Nylon/Spandex	Gray/Black	XS, S, M, L, XL	**G6618**
4	Sandy	15	Nylon/Spandex	Black/Gray	XS, 2XS, S, M, L, XL, 2XL, 3XL	**K3386**

Ansell

Nitrile-Coated Gloves

Hyflex 11-925 and 11-926—Feature RIPEL liquid repellence barrier to protect hands from oil and chemicals. Lightweight fine-gauge nylon/spandex liner for flexibility and comfort. ¾ dip provides extra protection and gripping power.
- For oily environments

Hyflex 11-800 and 11-801—Lightweight, flexible gloves offer dexterity and grip for precision assembly and general handling. Increased stretch and flexibility in high-stress areas. Nylon spandex elastic lessens the risk of latex allergy.
- For dry environments

Hyflex 11-840—Lightweight breathable gloves with FORTIX nitrile foam coating for superior abrasion resistance. Second-skin liner is shaped to add comfort, superior tactility, and greater dexterity.
- For dry environments

Hyflex 11-900—Oil-repellent industrial work gloves are made for secure handling, dexterity, protection, and comfort. Suitable for use in moderately oily manufacturing and maintenance tasks.
- For dry and light oil environments

Hyflex 11-920—Light-duty oil-repellent gloves utilize RIPEL liquid repellence technology to prevent oil and lubricants from contact with hands. Provides secure grip when handling oily parts or equipment.
- For oily environments

Hyflex 11-816 and 11-818—Lightweight thin nylon/Spandex liner gives gloves a bare-hand-like tactility and feel for breathable, everyday wear. FORTIX abrasion resistance nitrile foam coating yields firm grip.
- For dry environments

H7877

D1547

H6519

D1516

D1549

J7315

Series	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
¾ Dipped							
HyFlex 11-926	3	Rough	18	Nylon/Spandex	Purple	6, 7, 8, 9, 10, 11	**H7877**
HyFlex 11-925	3	Rough	18	Nylon/Spandex	Blue	6, 7, 8, 9, 10, 11	**J4667**
Palm Coated							
HyFlex 11-800	3	Sandy	15	Nylon	Gray/White	6, 7, 8, 9, 10, 11	**D1547**
HyFlex 11-801	3	Sandy	15	Nylon	Black/Gray	6, 7, 8, 9, 10, 11	**D1548**
HyFlex 11-840	4	Rough	15	Nylon/Spandex	Black/Gray	6, 7, 8, 9, 10, 11	**H6519**
HyFlex 11-900	4	Smooth	15	Nylon	Blue/White	6, 7, 8, 9, 10	**D1516**
HyFlex 11-920	4	Sandy	15	Nylon	Blue	6, 7, 8, 9, 10, 11	**D1549**
HyFlex 11-816	4	Sandy	18	Nylon/Spandex	Black/Blue	6, 7, 8, 9, 10, 11	**J7315**
HyFlex 11-818	4	Rough	18	Nylon/Spandex	Blue	6, 7, 8, 9, 10, 11	**H6518**

SHOWA

Nitrile-Coated Gloves

350R—Oil-resistant nitrile palm coating with open, breathable back of hand. Firm gripping power for wet or oily environments.

4500—Flexible nitrile palm coating with a smooth grip. Perfect for small parts assembly, inspection, light fabrication, and material handling.

370B—Nitrile palm coating provides firm grip. Dark color hides dirt and stains. For general-purpose applications.

380—Oil-resistant foam nitrile coated palm gives strong gripping power in wet or dry applications. Good dexterity for handling oily parts or components.

381 and 382—Embossed microporous nitrile coating provides high abrasion and oil resistance. 381 gloves have ultra-lightweight microfiber design offering optimal tactile sensitivity for precision tasks.

376—Double nitrile outer layer has a foam coating over a nitrile layer that prevents liquid penetration. Foam coating ensures a firm grip for oily applications.

G7364

H5472

D1517

G2406

K2523

Series	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
Nitrile Coating							
350	3	Rough	10	Polyester/Cotton	Gray/Green	S, M, L, XL	**G7364**
4500	3	Smooth	13	Nylon	Green	6, 7, 8, 9, 10	**D1517**
370B	4	Smooth	13	Nylon	Gray/Black	S, M, L, XL, 2XL	**H5472**
Foam Nitrile Coating							
380	4	Smooth	13	Nylon	Black/Blue	S, M, L, XL	**D1519**
382	4	Rough	13	—	Black/Blue	S, M, L, XL, 2XL	**K2227**
381	4	Sandy	15	Engineered Microfiber	Black/Gray	S, M, L, XL, 2XL	**K2523**
376	6	Smooth	13	Knit	Black/Blue	S, M, L, XL, 2XL	**G2406**

Find Glove sizing information on page 1687; Palm Coating and Liner information on page 1706.

Condor

Nitrile-Coated Gloves

D1782

4NMU1

- Fully coated
- For dry and light oil environments

Heavy-duty synthetic coating provides a dry grip, excellent grease and oil resistance, plus snag, cut, and puncture resistance. Comfortable contoured design. Cotton lining helps keep hands dry and comfortable.

ANSI/ISEA Abrasion Level	Coating Finish	Lining	Cuff	Color	▶CHOOSE: Size	Item No.
3	Smooth	Cotton	Knit Wrist	White/Blue	S, M, L, XL	**D1782**
3	Smooth	Cotton	Safety	Beige/Blue	L	**4NMU1**

MCR SAFETY

Nitrile-Coated Gloves

J4468

48GM42

- ¾ dipped
- For dry and light oil environments
- Meet EN 388 standard
- FDA accepted materials

Tough everyday work gloves resist abrasion, snags, and punctures with a soft lining that stays comfortable during extended tasks. 48GM42 lining is treated with Actifresh to resist bacterial buildup and odor.

ANSI/ISEA Abrasion Level	Coating Finish	Lining	Cuff	Color	▶CHOOSE: Size	Mfr. Model	Item No.
3	Flat	Interlock	Knit Wrist	White/Blue	S, M, L, XL	97980	**J4468**
3	Smooth	Jersey	Safety Cuff	White/Blue	L	97960	**48GM42**
Not Rated	Rough	Jersey	Safety Cuff	White/Blue	L	97962	**48GM43**

Ansell

Nitrile-Coated Gloves

- For dry and light oil environments

Easy Flex—Finger and palm coating lets the back of the hand breathe while protecting the working area. Gloves are snag-, cut-, and puncture-resistant. Nitrile coating repels oil and grease for a good grip. Gloves mold to the shape of the hand for a more relaxed, comfortable fit.

Hycron—Heavy-duty coating is a proprietary nitrile formulation that offers superior resistance to snags, abrasion, and punctures. Rugged gloves are stronger and more flexible than PVC and 3 times more durable than heavy-duty leather. Provide an excellent grease/oil barrier and will not degrade with time.

HyLite—Comfortable natural hand shape is easy to wear for a long workday. Proprietary nitrile coating is flexible, repels oil, and has good mechanical resistance to abrasion, cuts, punctures, and tears. This alternative to cotton, light leather, and PVC is silicone-free to help ensure metal sheets stay clean.

Hynit—Flexible gloves have a fully impregnated, proprietary nitrile coating that provides excellent abrasion resistance and repels oil, grease, and dirt. Slip-on cuff for easy on/off. D1504 has perforated back-of-hand.

D1531

D1536

D1533

D1503

ANSI/ISEA Abrasion Level	Coating Coverage	Coating Finish	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Easy Flex							
3	¾	Sandy	Cotton	White/Green	7, 8, 9, 10	47-200	**D1531**
Hycron							
3	Full	Smooth	Cotton	Blue	9, 10	27-805	**J4499**
4	¾	Smooth	Cotton	Blue/White	8, 9, 10	27-600	**D1536**
Hylite							
4	Full	Sandy	Cotton	Blue/White	7, 8, 9, 10	47-402	**D1533**
Hynit							
3	Full	Smooth	Polyester/Cotton	Blue	7, 7.5, 8, 9, 10	32-105	**D1503**
3	Full	Smooth	Polyester/Cotton	Blue	7, 8, 9, 10	32-125	**D1504**

MCR SAFETY

Nitrile-Coated Gloves

J4454—Driver's style work gloves have abrasion-resistant nitrile coating on the palm and fingertips that wraps fully around the thumb for extra coverage. Cool, comfortable canvas back with shirred slip-on cuff.

J5044—NXG Series gloves have a 13-ga. nylon shell with ¾ coverage nitrile foam coating. Excellent comfort and fit with a firm wet and dry grip.

J5091 and J5093—NInja BNF (Breathable nitrile foam) gloves have an 18-ga. nylon/spandex shell and are designed with unique BNF technology that allows glove to dissipate body heat, keeping hands cool and comfortable. NFT polymer coating provides exceptional abrasion resistance and strong grip. Treated with Actifresh to prevent bacteria buildup and odor. J5091 has an over-the-knuckle coating of flat nitrile and a second coating of BNF with NFT on the palm and fingertips. J5093 has a full coating of flat nitrile, with a second over-the-knuckle coating of BNF with NFT. Double coating provides durability and creates a waterproof barrier.

J4454

J5044

J0591

J0593

ANSI/ISEA Abrasion Level	Coating Coverage	Coating Finish	Lining	Color	▶CHOOSE: Size	Item No.
3	Palm	Flat	Jersey	Burgundy/White	S, M, L, XL	**J4454**
3	¾	Sandy	Nylon	Black/Gray	XS, S, M, L, XL, 2XL	**J5044**
4	¾	Smooth	Unlined	Black/Orange	XS, S, M, L, XL, 2XL	**J0591**
5	Full	Smooth	Unlined	Black/Red	XS, S, M, L, XL, 2XL	**J0593**

Find Glove sizing information on page 1687; Palm Coating and Liner information on page 1706.

Condor

Rubber Latex Coated Gloves

- For dry and light oil environments

Naturally elastic material provides a safe, secure grip and cut, puncture, and slash resistance. Stretchable knit wrist stays in place with a comfortable fit. Breathable liners wick moisture away from the skin to help keep you dry through a lengthy task.

Rough finish provides abrasion resistance and a safe, sure grip. Foam finish offers better dexterity and flexibility.

H6882

J4918

G6629

ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
2	Rough	10	Acrylic	Black	S, M, L, XL, 2XL	**J4911**
2	Rough	10	Polyester	Gray/Black	S, M, XL	**H6882**
3	Rough	10	Polyester	Blue/Gray	S, M, L, XL, 2XL	**J4918**
3	Rough	10	Thermal Acrylic	Black/High-Visibility Yellow	S, M, L, XL, 2XL	**G6629**
3	Rough	10	Polyester/Cotton	Blue/Beige	S, M, L, XL, 2XL	**J7720**
3	Rough	13	Nylon	Blue/White	S, M, L, XL, 2XL	**G6630**
3	Foam	13	Bamboo	Green/Black	S, M, L, XL, 2XL	**D1776**

J4375

D1483

J4369

J4390

H7867

E5406

MCR SAFETY

Rubber Latex Coated Gloves

NXG flat-dipped gloves are shaped like the hand to help reduce fatigue and keep workers productive, whether the task requires fine detail or heavy-duty work. Natural rubber latex coating provides secure grip and abrasion resistance.

D1483 have an adjustable hook-and-loop wrist closure for secure fit.

J4369 are ¾-dipped for extended over-the-knuckle protection.

J4464 have foam latex coated palm and fingertips with a seamless nylon shell.

J4390 have foam latex coated palm and fingertips. Hi-vis color increases safety.

H7867 insulated gloves provide extra thermal protection without sacrificing manual dexterity in heavier duty tasks.

Ninja Flex gloves have nylon shell with coated palm and fingertips for superior gripping power. Component materials comply with all relevant federal regulations for food contact. Sanitized with Actifresh for bacteria and odor control.

ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Lining	Color	▶CHOOSE: Size	Mfr. Model	Item No.
NXG							
3	Rough	10	Polyester/Cotton	Gray	S, M, L, XL	9688	**J4375**
3	Rough	10	Polyester/Cotton	Black/Gray	S, M, L, XL	9688V	**D1483**
3	Rough	10	Cotton/Polyester	Blue/White	S, M, L, XL	FG305	**J4369**
3	Sandy	13	Nylon	Blue/Gray	S, M, L, XL	96731	**J4464**
4	Rough	10	Cotton/Polyester	Blue/White	S, M, L, XL	9680	**E4231**
4	Rough	10	Cotton/Polyester	Blue/Gray	S, M, L, XL	FT300	**J4370**
4	Sandy	13	Nylon/Polyester	Black/High-Visibility Yellow	S, M, L, XL	96731HV	**J4390**
4	Textured	—	Cotton/Polyester/Acrylic	Gray	S, M, L, XL	9690	**H7867**
Ninja Flex							
3	Rough	15	Unlined	Gray/Red	S, M, L, XL, 2XL	N9680	**E5406**

SHOWA

Natural Rubber Latex Coated Gloves

Natural rubber palm coating provides high abrasion resistance along with a safe, secure grip. Rough textured surface grip provides optimum dexterity. Elastic wrist cuff keeps dirt and debris out. Ideal for construction, assembly, maintenance, material handling, and utilities.

341 has water-resistant palm to ensure good tactility, even in wet environments.

300 has breathable open-back design to keep hands cool.

330 has reinforced thumb crotch to help keep hands protected and comfortable during hard-wearing jobs.

317 is hi-vis color to provide protection in low-light conditions; ideal for indoor or outdoor use.

306 has dual latex coating with a second coating of aerated latex foam. Built to withstand harsh weather; impermeable yet breathable to keep hands dry and cool.

D1485

D1487

D1488

K2520

Series	ANSI/ISEA Abrasion Level	Gauge	Lining	Color	▶CHOOSE: Size	Item No.
341	2	13	Nylon	Black/Blue	S, M, L, XL	**K2521**
300	4	10	Polyester/Cotton	Blue/Gray	S, M, L, XL, 2XL	**D1485**
330	4	10	Polyester/Cotton	Black/Gray	S, M, L, XL	**D1487**
317	4	10	Polyester/Cotton	Orange/High-Visibility Yellow	S, M, L, XL	**D1488**
306	4	15	Polyester	Black/Blue	S, M, L, XL, 2XL	**K2520**

Find Glove sizing information on page 1687; Palm Coating and Liner information on page 1706.

J3766

H6316

MCR SAFETY

PVC-Coated Seamless Knit Gloves

- Stretchable knit wrist

PVC-based HPT foam coating repels liquid and provides a firm, reliable grip in wet or dry conditions.

Ninja work gloves feature a foam sponge coated palm and fingertips.

UltraTech gloves have excellent touch and dexterity with coated palm and fingers. Breathable nylon shell is treated with Actifresh to help minimize odors.

Description	ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Ninja HPT	3	Smooth	15	Black	M, S, L	N9699	**J3766**
UltraTech HPT	4	Sandy	15	Black/Gray	XS, S, M, L, XL, 2XL	9699	**H6316**

D1645

H6530

MCR SAFETY

Thermal Lined PVC-Coated Gloves

Ninja Ice —Soft acrylic terry liner with HPT palm and fingertip coating that stays soft and flexible in temps. down to -4°F. Liquid-repellent HPT (hydropellent technology) coating offers a firm wet/dry grip. Treated with Actifresh to control odors.

Ninja Coral—Clear PVC full dip and ¾ black coral over-the-knuckle dipped coating offers dexterity, sense of touch, and protection, with excellent wet and dry grip, cut and oil resistance. High-visibility nylon shell and insulated acrylic terry lining for warmth. Treated with Actifresh to minimize odor.

Description	ANSI/ISEA Abrasion Level	Coating Coverage	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
Ninja Ice	3	Palm	Smooth	Black	S, M, L, XL, 2XL	N9690	**D1645**
Ninja Coral	4	¾	Rough	Black/High-Visibility Orange	M, L, XL, 2XL	N9695	**H6530**

Ansell

Textured PVC-Coated Gloves

- Fully coated
- For dry environments

Very light and well-ventilated, these flexible, fully coated gloves have a cotton lining for all-day comfort. Light-duty work gloves offer excellent grip for handling small parts and objects.

ANSI/ISEA Abrasion Level	Coating Finish	Color	▶CHOOSE: Size	Mfr. Model	Item No.
2	Rough	Yellow	7, 7½, 8, 9, 10	22-515	**D1498**

superiorglove

PVC-Coated Gloves

Nylon gloves have foamed PVC coated palms that resist glue, caulking materials, and other adhesives and offer a strong grip in wet or oily conditions. Fine-gauge nylon provides dexterity and touch sensitivity, yet is hard-wearing and durable.

ANSI/ISEA Abrasion Level	Coating Finish	Gauge	Color	▶CHOOSE: Size	Item No.
3	Sandy	15	Gray	6, 7, 8, 9, 10, 11	**J3828**

Find Glove sizing on page 1687; find Cut-Resistant Mechanic's Gloves on page 1703.

Mechanic's Gloves

- Synthetic leather palm

FastFit—Ergonomically designed 2-pc. palm for a more comfortable fit, plus moisture-wicking TrekDry material to keep hands cool and dry. Reinforcement panels in high-wear areas help increase durability. Ideal for light-duty tasks such as automotive maintenance and repair, equipment operation, and manufacturing/assembly activities.

The Original—Durable palm protects hands from hot surfaces and materials. Form-fitting gloves have a 2-way stretch top and low-profile thermoplastic rubber wrist hook-and-loop closure. Reinforced thumb and fingertips help increase protection and reduce wear.

G2415

D0728

Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
FastFit			
Shirred	Black	M/8, L/9, XL/10, 2XL/11, 3XL/12	**G6911**
Elastic	Red, Blue, Black	M/8, L/9, XL/10, 2XL/11, 3XL/12	**G2415**
The Original			
Hook-and-Loop	Black, Red, Blue, Black/Black	M/8, M/9, XL/10, 2XL/11, 3XL/12, L/9	**D0728**

Mechanic's Gloves

Box Handler—Sticky grip with super-tacky palm and fingertips. Breathable with knuckle impact protection. Features terry sweat wipe.

EXO Modern—Made for outdoor performance and protection, with neoprene impact guards on the knuckles and materials that stand up to moisture. Hook-and-loop closure provides a snug fit. Terrycloth sweat wipe.

J4110 gloves have a water-repellent coating for extra moisture protection.

J4114's full goatskin palm won't shrink or stiffen after wetting. Goatskin finger reinforcements provide maximum durability and extended wear.

EXO Motor Grip—Proprietary silicone fused palm and index finger provide a sure grip on tools and equipment. Features a TPR cuff puller, neoprene knuckle pads, and snug-fitting hook-and-loop closure.

EXO Motor Pro—Neoprene knuckles help protect against impact from slipped wrenches and other tools. Snug hook-and-loop closure.

EXO Motor Utility—Full-finger gloves with terrycloth sweat wipe.

J4106 - Slip-on glove features an EXO embossed synthetic leather palm and suede cuff puller.

J4117 - Leather-reinforced-palm lightweight shop glove has an easy-access cuff.

Heavy Utility—Features ultra-abrasion-resistant, double-stitched DuraClad palm and fingertip pads.

Tuff-Chix—Seamless fingertip design for comfort with easy-on cuff.

Workcrew—Lightweight and breathable with reinforced synthetic leather in critical areas to boost durability. Features Airprene wrist closure and terrycloth sweat wipe on back of thumb.

Workforce—TPR system protects knuckles from impact. Synthetic leather reinforcements. Sweat wipe located on the back of thumb. Features slip-fit cuff.

Wrenchworx—Double-stitched padded palm is treated with PTFE for oil and water resistance. Saddle and fingertips are reinforced.

EXO Motor Impact—Soft, pliable, and abrasion-resistant genuine goatskin leather palm. Full back-of-hand padding. TPR cuff puller and hook-and-loop closure.

Ranchworx—Made of washable Bullwhip leather, with Duraclad abrasion-resistant reinforcements and TPR knuckle protection. Slip-fit cuff.

J4110

J4109

J4108

D1009

J4114

H4220

Description	Back Material	Cuff Style	Color	▶CHOOSE: Size	Item No.
Synthetic Leather Palm					
Box Handler	Ribbed Stretch Nylon	Slip-On	Black		**G6881**
EXO Modern Utility	Spandex, Neoprene	Slip-On	Black/Gray		**J4110**
EXO Motor Grip	Spandex, Neoprene	Slip-On	Black/Green		**J4109**
EXO Motor Pro	Spandex, Neoprene	Slip-On	Black/Green		**J4108**
EXO Motor Utility	Spandex	Shirred Slip-On	Black/Green	S/7, M/8, L/9, XL/10, 2XL/11	**J4106**
EXO Motor Utility Leather Reinforced Palm	Spandex	Shirred Slip-On	Black/Green		**J4117**
Heavy Utility	Ribbed Stretch Nylon	Slip-On	Black		**G6884**
Tuff-Chix	Ribbed Nylon/Spandex	—	Pink		**D1009**
Workcrew	Ribbed Stretch Nylon	Slip-On	Black/Yellow	S/7, M/8, L/9, XL/10	**G6886**
	Spandex	Slip-On	Black/Yellow	2XL/11	**G6886**
Workforce	Ribbed Stretch Nylon	Shirred Slip-On	Black	S/7, M/8, L/9, XL/10, 2XL/11	**G6887**
Wrenchworx	Ribbed Nylon/Spandex	Slip-On	Black		**H4223**
Goatskin Palm					
EXO Modern	Spandex	Slip-On	Black/Gold		**J4114**
EXO Motor Impact		Slip-On	Black/Gold		**J4125**
EXO Motor Pro	Spandex, Neoprene	Slip-On	Black/White	S/7, M/8, L/9, XL/10, 2XL/11	**J4118**
	Spandex, Neoprene	Slip-On	Black/Gold		**J4119**
Ranchworx	Ribbed Nylon/Spandex	Slip-On	Black/Tan		**H4220**
Deerskin Palm					
EXO Motor Pro	Spandex, Neoprene	Slip-On	Black/Gold	S/7, M/8, L/9, XL/10, 2XL/11	**J4120**
Cowhide Palm					
EXO Motor Pro	Spandex, Neoprene	Slip-On	Black/Gold	S/7, M/8, L/9, XL/10, 2XL/11	**J4121**

Find Glove sizing on page 1687; find Cut-Resistant Mechanic's Gloves on page 1703.

G6882

D0606

K2782

Fingerless Mechanic's Gloves

- Slip-on cuff

Protect the palm and back of the hand while leaving the fingers open for better dexterity and sense of touch. Ideal for basic tasks in general maintenance and repair operations, when sensitivity is needed for handling small parts, tools, or devices.

D0619 and D0621 have breathable, mesh back.

G6882 has an open thumb, index and middle finger; the fourth and fifth fingers are closed for added protection. TPR knuckle protection and sweat wipe on the back of the thumb.

K2782 has silicone-coated palm for extra gripping power.

Color	▶CHOOSE: Size	Brand	Item No.
Synthetic Leather Palm			
Black	S, M, L, XL, 2XL	Ironclad	**G6882**
Black	8, 9, 10, 11, 12	Condor	**J7290**
Black	S, M, L, XL, 2XL	Mcr Safety	**K2782**
Black	S, M, L, XL, 2XL	Ironclad	**J5008**
Pigskin Palm			
Black	L, M, S, XL	Condor	**D0619**
Black; Blue; Silver	M, L, XL	Condor	**D0606**
Black	L, M, S, XL	Condor	**D0621**

Hi-Vis Yellow

Hi-Vis Orange

High-Visibility Mechanic's Gloves

- Synthetic leather palm

Bright colors help promote awareness and safety compliance. Polyester and neoprene construction is designed to reduce hand fatigue and injuries and provide excellent grip, flexibility, comfort, and abrasion resistance. Hook-and-loop closure for secure fit.

▶CHOOSE: Color	▶CHOOSE: Size	Item No.
Yellow, Orange	S, M, L, XL, 2XL	**J7285**

J7287

K2786

K2133

Impact-Resistant Mechanic's Gloves

- Slip-on cuff

Condor - Breathable cotton palm with polyester backing and TPR molded knuckle protection.

MCR Safety - Rated ANSI/ISEA Impact Level 1. TPR rubber knuckle protection and silicone coating on palm for extra gripping power.

Ringers Gloves - Rated ANSI/ISEA Impact Level 1. Nylon mesh backing with TPR knuckle protection.

Closure Type	Color	▶CHOOSE: Size	Brand	Item No.
Cotton Palm				
Hook-and-Loop	Black	8, 9, 10, 11, 12	Condor	**J7287**
Elastic	High-Visibility Green	8, 9, 10, 11, 12	Condor	**J7287**
Synthetic Leather Palm				
—	Black	S, M, L, XL	Mcr Safety	**K2786**
Hook-and-Loop	Black	XS, S, M, L, XL, 2XL, 3XL	Ringers Gloves	**K2133**

G6883

H4217

J4112

Impact-Resistant Mechanic's Gloves

- Adjustable slip-on cuff

General Utility—Foam-padded inner palm with double-stitched synthetic leather reinforcements on palm, fingers, and saddle.

Vibration Impact—PTFE-treated palm repels oil and water and has 6 gel-padded reinforcements. Neoprene knuckle protection.

EXO Motor Impact—Features full back-of-hand padding with a breathable expansion chamber. Foam-padded, embossed synthetic leather palm, reinforced fingertips. TPR cuff puller and hook-and-loop closure.

Super Duty—Flexible Duraclad reinforcements cover the palm, fingers, thumb, and saddle. Hook-and-loop wrist strap and terry sweat wipe. TPR protection for the back of the hand and fingers.

EXO Project Impact—Vibration-absorbing palm, TPR impact protection, and a breathable expansion chamber. TPR cuff puller, and a hook-and-loop closure secures it to your wrist.

Ranchworx—Made of Bullwhip leather with Kevlar reinforced saddle and thumb. Seamless fingertips and flexible TPR finger and knuckle protection with extended cuff.

Description	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
Synthetic Leather Palm			
General Utility	Black	S, M, L, XL, 2XLS, M, L, XL, 2XL	**G6883**
Vibration Impact	Black	S, M, L, XL, 2XL, XS	**H4217**
EXO Motor Impact	Black/Green	S, M, L, XL, 2XLS, M, L, XL, 2XL	**J4112**
EXO Motor Impact	Black/Blue, Black/Red	S, M, L, XL, 2XL	**J4126**
Super Duty	Black	S, M, L, XL, 2XLS, M, L, XL, 2XL	**G6885**
EXO Project Impact	Green/Tan	S, M, L, XL, 2XL	**J4124**
Goatskin Palm			
Ranchworx	Black/Tan	S, M, L, XL, 2XL, 3XLS, M, L, XL, 2XL, 3XL	**H4221**

Find Glove sizing on page 1687; find Cut-Resistant Mechanic's Gloves on page 1703.

J4107

H6513

H4218

IRONCLAD PERFORMANCE WEAR

High-Visibility Mechanic's Gloves

- Synthetic leather palm

Reflective accents and hi-viz colors help boost visibility and safety. Knuckles have impact protection.

EXO —Performance-fit gloves have a convenient terrycloth sweat wipe on the thumb. Light-duty Utility style has an open cuff for easy access. Abrasion-Resistant style employs proprietary Duraclad reinforcements. Secure hook-and-loop wrist closure.

KONG Operator—Lightweight gloves are designed for high dexterity in crane and machinery operation, mechanic work, and construction. Breathable spandex back and reinforcements in critical areas are high-visibility colors.

I-Viz Reflective Utility—Padded gloves have a reinforced saddle, reflective zones on fingers and back of hand, and hook-and-loop closure.

Description	Back Material	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
EXO Utility	Spandex	Orange, Yellow	S, M, L, XL, 2XL	**J4107**
EXO Abrasion-Resistant	Spandex, Neoprene	Orange/Yellow	S, M, L, XL, 2XL	**J4113**
KONG Operator	Spandex	Hi-Vis Yellow	S, M, L, XL	**H6513**
I-Viz Reflective Utility	Ribbed Nylon/ Spandex	Green	S, M, L, XL, 2XL	**H4218**
		Orange	S, M, L, XL, 2XL	**H4219**

H3984

H3986

MECHANIX WEAR

High-Visibility Mechanic's Gloves

- Synthetic leather palm

3M Scotchlite reflective ink helps increase visibility. Gloves have form-fitting TrekDry upper material to keep hands dry and comfortable. Reinforcement panels in high wear areas for long life.

FastFit—Anatomically cut thumb area of the palm provides a comfortable fit, while the elastic cuff allows easy on and off.

The Original Hi-Viz—Seamless palm for a comfortable fit with secure hook-and-loop closure.

Description	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
FastFit	Elastic	Yellow	S, M, L, XL, 2XL	**H3984**
		Orange		**H3985**
The Original Hi-Viz	Hook-and-Loop	High-Visibility Yellow		**H3986**

J5684

J5686

J5685

Condor

High-Visibility Impact-Resistant Mechanic's Gloves

Designed with highly visible colors and rugged construction, including a reinforced thumb, for improved safety, fit, and durability. Low-profile gloves have extra protection on the fingers, thumb, and knuckles, to protect your hands from bumps, scrapes, and scratches without sacrificing dexterity.

J5686 has 150g of insulation for cold weather conditions.

J5685 features a Kevlar-reinforced palm for improved cut resistance.

Palm Material	Palm Construction	Color	▶CHOOSE: Size	Item No.
Synthetic Leather	Double Layer	Yellow	S, M, L, XL, 2XL, 3XL	**J5684**
PVC	Triple Layer	Blue	S, M, L, XL, 2XL, 3XL	**J5686**
Kevlar®	Triple Layer	Green	S, M, L, XL, 2XL, 3XL	**J5685**

G9246

K2032

K2134

MCR SAFETY · HexArmor with SuperFabric · RINGERS GLOVES®

High-Visibility Impact-Resistant Mechanic's Gloves

ForceFlex—Padded, reinforced Kevlar palm for increased abrasion- and puncture-resistance. Mesh fabric backing with molded TPR padding for finger and hand protection. Extended neoprene cuff offers wrist protection.

Hex1-2131—Durable TP-X palm with reinforced stitching. Full back-of-hand protection and neoprene cuff with hook-and-loop closure.

Ringers R162—Padded palm with TPR knuckle and back-of hand protection. Touchscreen compatible tips on thumb, index, and middle fingers.

Description	ANSI/ISEA Impact Level	Color	▶CHOOSE: Size	Brand	Item No.
Kevlar® Palm					
ForceFlex	1	Black/Gray/Orange	M, L, XL, 2XL, 3XL	Mcr Safety	**G9246**
Synthetic Leather Palm					
Hex1 2131	1	Black/Hi-Vis Yellow	S, XL, XS, 2XL, 3XL	HexArmor	**K2032**
Ringers R162	1	Orange/Red/Yellow	XS, S, M, L, XL, 2XL, 3XL	Ringers Gloves	**K2134**

Find Glove sizing on page 1687; find Cut-Resistant Mechanic's Gloves on page 1703.

J4184

J4116

H4222

J7586

J4901

High-Visibility Impact-Resistant Mechanic's Gloves

Industrial Impact Cotton Corded—Cotton cording provides all-around grip at an economical price for oil and gas, mining, demolition, heavy construction, and rigging applications.

EXO Industrial Athlete Hi-Viz Impact—Performance-fit gloves for demanding jobs have a vibration-reducing reinforced palm and all-around impact protection, plus reinforced fingertips. Reflective accents and hi-viz colors help boost visibility and safety. Secure hook-and-loop wrist closure.

Industrial Impact Rigger—Duraclad reinforced palm, rope channel, and thumb boost grip and durability for heavy industrial environments, oil extraction and refining, mining, demolition, and rigging.

KONG Dexterity Super Grip—Proprietary Diamondclad silicone-fused palm offers nonslip performance and maximum dexterity on wet and oily surfaces. Designed for complete hand and finger impact protection in rugged oil and gas environments. Abrasion-resistant materials are used in the reinforced saddle and thumb.

KONG Oil and Waterproof—Gloves also are windproof for protection and comfort in harsh conditions on the rig or in the fields. Breathable material lets sweat evaporate to help keep hands dry and warm. Proprietary palm material offers superior abrasion resistance. Hi-viz palm and back of hand, multilayer microfleece insulation, and impact-resistant knuckle, finger, and metacarpal protection round off the rugged design.

KONG Original SDX2—Developed specifically for the oil and gas industry. Breathable nylon back with dotted palm for firm grip and abrasion resistance.

KONG High Dexterity Waterproof—Synthetic suede dotted palm offers firm grip in any conditions. Waterproof insert with polyester lining.

Vibram Rigger—Antistatic, antisaturation gloves are made for extreme durability and maximum grip when handling ropes and cables. The design features a 3-D beveled rope channel to boost directional grip, and impact-protective base of palm.

Vibram O.B.M. and O.B.M. XOR—Oil-based Mud Palm (O.B.M.) line is made for dirty, greasy jobs, with a tread pattern designed to channel high-viscosity lubricant and cold-temperature flexibility. The impermeable palm has an impact-protective base. Fingertips are designed for maximum grip on saturated tools and equipment. Maximum dexterity also is designed into these extremely durable gloves. O.B.M. gloves have PTFE protection on shell fabrics for increased resistance to oil and water. O.B.M. XOR (Extreme Oil Resistance) have a nitrile-coated cotton shell good for saturated environments.

Description	ANSI/ISEA Impact Level	Cuff	Color	▶CHOOSE: Size	Item No.
Cotton Corded Palm					
Industrial Impact Cotton Corded	2	Gauntlet	Green/Red	S, M, L, XL, 2XL, 3XL	**J4184**
Synthetic Leather Palm					
EXO Industrial Athlete	—	Adjustable	Black/High-Visibility Orange	S, M, L, XL, 2XLS, M, L, XL, 2XL	**J4116**
Hi-Viz Impact	—	Adjustable	Orange/High-Visibility Yellow	S, M, L, XL, 2XLS, M, L, XL, 2XL	**J4115**
Industrial Impact Rigger	2	Gauntlet	Black/Green	S, M, L, XL, 2XL, 3XL	**J4906**
KONG Dexterity Super Grip	2	Gauntlet	Green/Yellow	M, L, XL, 2XL	**H4222**
KONG Oil and Waterproof	2	Knit Wrist	Blue/Yellow	M, L, 2XLM, L, 2XL	**H4227**
KONG Original SDX2	2	Gauntlet	Orange	S, M, L, XL, 2XLS, M, L, XL, 2XL	**G9256**
KONG High Dexterity Waterproof	2	Gauntlet	Black/Yellow	S, M, L, XL, 2XL, 3XL	**J7586**
Vibram Vulcanized Rubber Palm					
Vibram Rigger	—	Gauntlet	Black/ Green/ Hi-Vis Yellow	S, M, L, XL, 2XL, 3XL	**J4901**
Vibram O.B.M.	—	Gauntlet	Black/ Hi-Vis Yellow/ Red	S, M, L, XL, 2XL, 3XL	**J4898**
Vibram O.B.M. XOR	—	Gauntlet	Green/ Hi-Vis Yellow/ Orange	S, M, L, XL, 2XL, 3XL	**J4900**

High-Visibility Impact-Resistant Mechanic's Gloves

Feature 3M Scotchlite reflective ink to increase visibility and have moisture wicking TrekDry material to help keep hands dry. Thermal plastic rubber (TPR) protects knuckles and fingers, while Poron XRD palm padding absorbs impacts. Rubberized tacky material on the thumb and index finger help improve grip.

Description	Cuff	Color	▶CHOOSE: Size	Item No.
M-Pact	Hook-and-Loop	Yellow	8, 9, 10, 11, 12	**H3975**

H4228

H4224

H4225

Insulated Mechanic's Gloves

Summit Reflective Fleece—Windproof 3-layer fleece is stretchable, durable, and breathable. Reflective logos enhance nighttime visibility. Reinforced palm and fingers provide durability and grip in all conditions.

Cold Condition—3-layer construction with micro-fleece liner. PTFE-treated shell repels water and oil. Reinforcements on palm, fingers, and saddle. Neoprene knuckle and 2¼" cuffs. H4226 is waterproof and windproof with a breathable insert.

Tundra—3-layer insulation is waterproof and windproof. 3M insulation for warmth. Kevlar reinforcements on fingers, thumb, and saddle. Rugged shell with impact-resistant knuckles. Extended cuff with hook-and-loop closure.

Description	Color	▶CHOOSE: Size	Item No.
Summit Reflective Fleece	Black	S, M, L, XL, 2XL	**H4228**
Cold Condition	Black	S, M, L, XL, 2XL	**H4224**
Cold Condition Waterproof	Black	S, M, L, XL, 2XL	**H4226**
Tundra	Black	S, M, L, XL, 2XL	**H4225**

Find more information about gloves and glove sizing on page 1687.

Condor

Task & Chore Gloves

Task and chore gloves are lightweight gloves used to keep hands clean and protect against scrapes and abrasions in low-risk environments. They are used in general warehouse and shipping tasks, landscaping, light assembly, general maintenance, and light automotive work.

Coating Finish	Coating Coverage	Color	▶CHOOSE: Size	Item No.
Task and Chore with PVC Coating				
Mediumweight				
Dotted	Palm and Thumb	High-Visibility Orange/Black	S, L	**D1413**
Heavyweight				
Dotted	Palm and Thumb	White/Black	S, L	**D1411**
Task and Chore Uncoated				
Lightweight				
None	Uncoated	Beige	S, L	**D1408**
Mediumweight				
None	Uncoated	Beige	S, L	**D1409**
None	Uncoated	High-Visibility Green, High-Visibility Orange	L	**H0580**
Task and Chore with PVC Coating				
Dotted	Palm	Brown	S, L	**D1427**
Task and Chore Uncoated				
Lightweight				
None	Uncoated	Brown	S, L	**D1416**
Cut and Sewn Uncoated				
None	Uncoated	White	L	**D1415**
Task and Chore Uncoated				
None	Uncoated	White	S	**D1415**
None	Uncoated	Brown	S, L	**D1425**
Mediumweight				
None	Uncoated	Brown	S, L	**D1432**
None	Uncoated	Brown	S, L	**D1423**
Task and Chore with PVC Coating				
Heavyweight				
Dotted	Palm	Beige/Blue	S, L	**D1454**
Dotted	Palm	Beige/Black	S, L, XL	**D1448**
Dotted	Full	Beige/Black	XS, S, L, XL, 2XL	**D1772**
Striped	Palm	Beige/Blue	S, L	**D1455**
Dotted	Full	High-Visibility Yellow/Black	XS, S, L, XL	**D1768**
Dotted	Full	High-Visibility Orange/Black	XS, S, L, XL	**D1769**
Knit Uncoated				
Lightweight				
None	Uncoated	Beige	S, L	**D1437**
Mediumweight				
None	Uncoated	Beige	XS, S, L, XL	**D1441**
None	Uncoated	White	XS, S	**D1439**
Heavyweight				
None	Uncoated	Gray	S, L	**D1436**
None	Uncoated	White	S, L	**J4936**
None	Uncoated	Gray	XS, S, L, XL	**D1442**
None	Uncoated	Beige	S, L	**D1446**
None	Uncoated	Beige	S, L, XL	**D1767**
None	Uncoated	White	S, L, XL	**D1444**

D1411

D1408

D1427

D1416

D1454

D1437

2HEU9

Condor

Anti-Vibration Glove Liners

Just wear under your gloves for an added layer of protection against impact and vibration. EN388 and EN420 Certified.

Back Material	Color	Size	Item No.	Pkg. Qty.
Cotton, Polymer	Blue	M	**2HEU9**	1 Pair
		L	**2HEV1**	
		XL	**2HEV2**	

2UUA3

Condor

Fingerless Glove Liners

Stretchable poly/cotton glove liners are worn under gloves to absorb perspiration and wick away moisture. Gel palms absorb impact. EN388 and EN420 Certified.

L	Material	Color	Size	Item No.	Pkg. Qty.
7"	Poly/ Cotton	White	Universal	**2UUA3**	100
12"				**2UUA4**	

Condor

Thermal Glove Liner

- One size fits most

Thermostat®/Lycra® blend removes perspiration and keeps warm, dry air next to the skin. Excellent for cold food processing, cold storage activities, and commercial fishing.

▶CHOOSE: Color	Item No.
Navy, White	**H0554**

Find more information about gloves and glove sizing on page 1687.

A.

B.

C.

D.

E.

F.

G.

H.

I.

Condor

Coated String Knit Gloves

Seamless construction with knit wrist for a close, comfortable fit and enhanced dexterity.

A. to B., Palm-Coated—Available with a raised dot pattern on the palm side or flat-dipped pattern on the palm and sides of the fingertips. Flat-dipped gloves conform to the hand and resist degradation through stretching.

C. to I., Double-Sided Coating—Gloves coated on both sides are fully reversible for extended wear. Available with a raised dot pattern, flat dipped, or with a fish net pattern.

Key	Glove Materials	Coating Material	Coating Finish	Color	▶CHOOSE: Size	Item No.
Palm-Coated						
A	Cotton/Polyester	PVC	Dotted	Beige/Black	S, L, XL	**D1448**
B	Cotton/Polyester	PVC	Smooth	Red/White	S, L, XL	**D1771**
Double-Sided Coating						
C	Cotton/Polyester	PVC	Smooth	Beige/Black	S, L	**D1452** *
D	Cotton/Polyester	PVC	Dotted	Beige/Black	XS, S, L, XL, 2XL	**D1772**
E	Cotton/Polyester	PVC	Dotted	Beige/Blue	S, L	**D1454**
F	Cotton/Polyester	PVC	Striped	Beige/Blue	S, L	**D1455**
G	Acrylic	PVC	Dotted	High-Visibility Yellow/Black	XS, S, L, XL	**D1768**
H	Acrylic	PVC	Dotted	High-Visibility Orange/Black	XS, S, L, XL	**D1769**
I	Cotton/Polyester	Nitrile	Dotted	Beige/Red	S, XL	**D1457**
I	Cotton	Nitrile	Dotted	Beige/Red	L	**D1457**

** Fingerless*

D1767

D1436

D1766

Condor

String Knit Gloves

Ambidextrous with seamless construction. Knit stretches for fit and breathability.

Cotton—Absorb perspiration and moisture. Prevent chafing.

Polyester—For use in electronics industry, painting, and delicate parts handling.

Polyester/Cotton—Allow comfort while reducing hand fatigue. D1436 is constructed with recycled poly/cotton material.

Gauge	Color	▶CHOOSE: Size	Item No.	Pkg. Qty.
Cotton				
7	Beige	S, L, XL	**D1767**	1 Pair
Polyester				
7	White	S, L, XL	**D1444**	1 Pair
13	White	XS, S	**D1439**	1 Pair
Polyester/Cotton				
7	Beige	XS, S, L, XL	**D1441**	1 Pair
7	White, Natural	S, L	**D1765**	144 Pair
7	Gray	S, L	**D1436**	1 Pair
7	Gray	XS, S, L, XL	**D1442**	12 Pair
7	Beige	S, L	**D1446**	1 Pair
13	Beige	S, L	**D1437**	1 Pair
Polyester/Cotton Fingerless Design				
7	Beige	S, L, XL	**D1766**	1 Pair

Condor

Inspection Gloves

Keep hands cool and dry. Durable white gloves absorb perspiration. White color.

Description	Fabric Weight	Size	Item No.	Pkg. Qty.
Cotton				
Unhemmed	Light	Men's One Size Fits Most	**4JC97**	12 Pr.
Unhemmed	Light	Women's One Size Fits Most	**4JC98**	12 Pr.
Unhemmed	Medium	Men's One Size Fits Most	**4JC99**	12 Pr.
Unhemmed	Medium	Women's One Size Fits Most	**4JD01**	12 Pr.
Unhemmed	Heavy	Men's One Size Fits Most	**4JD02**	12 Pr.
Unhemmed	Heavy	Women's One Size Fits Most	**4JD03**	12 Pr.
Polyester				
Hemmed	Medium	Women's S	**4JD10**	12 Pr.
Hemmed	Medium	Women's M	**4JD09**	12 Pr.
Hemmed	Medium	Women's L	**4JD08**	12 Pr.
Hemmed	Medium	Men's M	**4JD12**	12 Pr.
Hemmed	Medium	Men's L	**4JD11**	12 Pr.
Nylon				
Hemmed	Heavy	Men's One Size Fits Most	**4JD15**	12 Pr.
Hemmed	Heavy	Women's One Size Fits Most	**4JD14**	12 Pr.

Condor

Fingertip Coated Seamless Knit Gloves

Low-lint nylon material and seamless construction with a polyurethane fingertip coating for greater dexterity in light assembly, manufacturing, and small part handling applications.

Coating Material	Coating Coverage	▶CHOOSE: Size	Item No.
Polyurethane	Fingertips	S, M, L, XL, 2XL	**J4914**

Find more information about gloves and glove sizing on page 1687.

Leather Glove Information

GRADE

Leather Grade—As a natural product, leather material can vary in color, thickness, and response to water, heat and cold. **Standard** leather is usually cut from the shoulder of the animal hide, where the skin is not as soft as premium leather. It has more apparent flaws or surface marks than premium leather. **Premium** leather is normally cut from the belly of the animal hide making it softer than standard grade leather. It has fewer scar marks or other blemishes. Leather cut from the side and shoulder of the animal offers high durability. Full- or top-grain leather comes from the external side of the hide and is typically smooth. Split leather or suede is more economical, but not as durable as grain leather.

MATERIALS

Cowhide—Durable and comfortable leather that maintains a good appearance over time. Excellent abrasion resistance and breathability.

Deerskin—Soft, lightweight leather that conforms easily to the hand for high comfort and flexibility. It has a longer lifespan than cowhide and is warmer than other leathers. Suitable for jobs where optimal dexterity is important.

Goatskin—Soft and supple leather with excellent dexterity. It has better abrasion-, tear-, and water-resistance than other leathers.

Pigskin—Flexible leather that softens with use, withstands moisture without becoming stiff, and is more breathable than other leathers.

THUMB STYLES

Keystone—Provides higher levels of comfort, durability, and mobility than other thumb styles. An inset thumb has a separate piece of fabric to allow the thumb to rest in a natural position for increased dexterity.

Wing—Thumb is sewn out to the side and welts are added to the seams for added strength and to relieve some stress on the palm. Offers comfortable gripping and free thumb movement.

Straight—Has a continuous piece of fabric extending straight from the wrist with a sewn seam around the thumb. Has less mobility than other thumb styles.

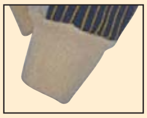
CUT STYLES

Gunn—Seamless back for greater comfort; the palm side of the middle 2 fingers is sewn into the palm at the base of the middle 2 fingers. Reinforced seam with a welt increasing gloves' durability and wear life.

Clute—Parallel seams on back of glove made from a continuous piece of leather for greater ease of movement, comfortable gripping, and a roomy fit.

CUFF STYLES

Knit Wrist



Safety—2" cuff length

Gauntlet—Extended 4" cuff

Slip-On

Shirred Wrist

Leather Driver's Gloves

- Full leather palm and back
- Gunn cut

Comfortable work gloves cover the entire hand with excellent abrasion resistance and breathability. Lined gloves offer thermal protection and comfort for hot or cold working conditions.

H6336 and J4938 have extra-strong Kevlar stitching that is stretch resistant to help keep the seam tight.

J4938 has thermoplastic rubber finger and back-of-hand impact protection.

Glove Palm Material	Thumb Style	Lining	Cuff	Color	▶CHOOSE: Size	Item No.
Standard Grade						
Cowhide	Straight	Unlined	Shirred Wrist	White	XS, S, M, L, XL, 2XL	**D1591**
Cowhide	Keystone	Unlined	Shirred Wrist	Yellow	S, M, L, XL	**D1651**
Cowhide	Straight	Unlined	Shirred Wrist	Gray	S, M, L, XL, 2XL	**D1588**
Cowhide	Keystone	Unlined	Shirred Wrist	Beige	S, M, L, XL	**D1593**
Cowhide	Keystone	Thinsulate	Knit Wrist	Black	S, M, L, XL	**D1665**
Cowhide	Straight	Jersey	Shirred Wrist	Beige, White	S, M, L, XL	**D1598**
Cowhide	Keystone	Thinsulate	Slip-On	Golden Yellow	S, M, L, XL	**D1667**
Cowhide	Keystone	Thermal Cotton	Slip-On	Cream	S, M, L, XL	**D1661**
Goatskin	Keystone	Unlined	Shirred Wrist	Gray	S, M, L, XL, 2XL	**D1589**
Pigskin	Keystone	Unlined	Shirred Wrist	Beige	XS, S, M, L, XL, 2XL	**D1592**
Premium Grade						
Cowhide	Keystone	Unlined	Shirred Wrist	Off White	S, M, L, XL	**D1647**
Cowhide	Straight	Unlined	Shirred Wrist	White	S, M, L, XL, 2XL	**D1594**
Cowhide	Keystone	Unlined	Cinch	Yellow	S, M, L, XL	**D1648**
Cowhide	Keystone	Unlined	Cinch	Yellow	S, M, L, XL	**D1649**
Cowhide	Keystone	Unlined	Shirred Wrist	Yellow	S, M, L, XL, 2XL	**D6139** *
Cowhide	Straight	Unlined	Shirred Wrist	Yellow	S, M, L, XL, 2XL	**J4940**
Cowhide	Keystone	Unlined	Shirred Wrist	Brown/White	S, M, L, XL, 2XL	**H6336** †
Cowhide	Wing	Jersey	Shirred Wrist	Gold/Yellow	S, M, L, XL, 2XL	**J4938** †
Cowhide	Keystone	Jersey	Slip-On	Beige	S, M, L, XL	**D1596**
Cowhide	Keystone	Thinsulate	Slip-On	Cream	S, M, L, XL	**D1659**
Goatskin	Keystone	Unlined	Shirred Wrist	Beige	S, M, L, XL	**D1646**

** Split leather palm patch. † Kevlar stitching.*

D1651

D1665

D1661

D1592

D1649

D6139

H6336

J4938

Leather Driver's Gloves

- Full leather palm and back
- Gunn cut
- Unlined
- Shirred slip-on cuff

Cowhide gloves offer a good balance of abrasion resistance, dexterity, durability, and comfort for everyday general maintenance, construction, and industrial tasks. H4152 has cowhide palm and split leather back. J3520 has double palm to increase strength and wear resistance. J3527 is sewn with Kevlar.

Deerskin gloves are naturally soft and comfortable for extended wear.

Goatskin gloves are a very supple leather with a soft feel and excellent flexibility.

Pigskin gloves offer excellent abrasion resistance and retain their softness, even after exposure to water and moisture.

Glove Palm Material	Thumb Style	Color	▶CHOOSE: Size	Item No.
Standard Grade				
Cowhide	Straight	Beige	S, M, L, XL, 2XL	**J3512**
Cowhide	Keystone	Cream	S, M, L, XL	**H4152**
Deerskin	Keystone	Yellow	S, M, L, XL	**J3544**
Goatskin	Straight	White	S, M, L, XL	**J3548**
Goatskin	Keystone	White	S, M, L, XL	**H7876**
Pigskin	Straight	Beige	S, M, L, XL	**J3534**
Premium Grade				
Cowhide	Straight	Cream	XS, S, M, L, XL, 2XL	**H5447**
Cowhide	Keystone	Cream	XS, S, M, L, XL, 2XL, 3XL	**H4823**
Cowhide	Wing	Beige	S, M, L, XL, 2XL	**J3520**
Cowhide	Wing	Beige	S, M, L, XL	**J3523**
Cowhide	Wing	Beige	S, M, L, XL	**J3527**
Deerskin	Keystone	Gold	S, M, L, XL	**H7868**
Goatskin	Keystone	White	S, M, L, XL, 2XL	**J3549**
Pigskin	Keystone	Beige	S, M, L, XL, 2XL, 3XL	**H5448**

H4152

H7876

H5447

H7868

H5448

Leather Palm Work Gloves

Provide abrasion resistance and protection for heavy-duty jobs. Durable leather palms with comfortable, breathable backs. Lined gloves keep hands warm when working in cold environments. Gunn cut, except gloves with straight thumb style are clute cut. Strong polyester stitching except where noted. Hi-Vis gloves have 3M Scotchlite reflective material.

Glove Palm Material	Back Material	Thumb Style	Lining	Cuff	▶CHOOSE: Color	▶CHOOSE: Size	Item No.
Standard Grade							
Cowhide	Cotton, Polyester	Wing	Unlined	Safety	Gray	XS, S, L, XL, 2XL	**D1559**
Cowhide	Cotton	Wing	Unlined	Safety	Gray	XS, S, L, XL, 2XL	**D1561**
Cowhide	Polyester	Wing	White Non-Woven Fabric	Safety	High-Visibility Green	S, M, L, XL	**D1683**
Cowhide	Polyester	Wing	Nylon with WarmTex(R)	Knit Wrist with Safety	Hi Visibility Green/Gray	S, M, L, XL	**D1687**
Cowhide	Polyester	Wing	Nylon Laminated with Insulation	Knit Wrist	High-Visibility Orange	S, M, L, XL	**D1689**
Cowhide	Cotton, Polyester	Wing	Unlined	Gauntlet	Gray	S, L, XL	**D1562**
Cowhide	Cotton, Polyester	Straight	Unlined	Knit Wrist	Gray	S, L, XL	**D1558**
Cowhide	Cotton	Wing	Unlined	Safety	Gray	S, L, XL	**D1563**
Cowhide	Cotton	Wing	Thinsulate and Waterproof	Safety Cuff with Knit Wrist	Blue/Yellow	M, L	**D1599**
Cowhide	Canvas	Wing	Soft Brushed Nylon	Safety	Denim Blue/Tan	L, XL	**D1597**
Cowhide	Cotton	Wing	Thinsulate and Waterproof	Safety	White/Gray	L, XL	**D1666**
Cowhide	Cotton Canvas	Wing	Nylon with WarmTex(R)	Safety	Brown/Blue, brown/black/white	L, XL	**D1668**
Goatskin	Cotton	Wing	Nylon with WarmTex(R)	Safety	Blue/White, Red/White	S, M, L, XL	**D1577**
Premium Grade							
Cowhide	Cotton	Wing	Nylon with WarmTex(R)	Rubberized Safety	Gray	S, M, L, XL	**D1579** *
Cowhide	Cotton Canvas	Wing	Nylon with WarmTex(R)	Safety	Gray	S, M, L, XL	**D1581** *
Cowhide	Cotton	Wing	Nylon with WarmTex(R)	Safety	Gray	S, M, L, XL	**D1582** *
Cowhide	Polyester	Wing	Insulated	Knit Wrist	High Visibility Lime	S, M, L, XL	**D1695**
Cowhide	Polyester	Wing	White Non-Woven Fabric	Safety	High-Visibility Orange	S, M, L, XL	**D1684**
Cowhide	Cowhide	Wing	Thinsulate	Safety	White/High-Visibility Orange	S, M, L, XL, 2XL	**J4937**
Cowhide	Cotton	Wing	Unlined	Safety	Blue/White	S, M, L, XL, 2XL	**D1575**
Cowhide	Cotton, Polyester	Wing	Nylon with WarmTex(R)	Safety	Black/Beige	S, M, L, XL, 2XL	**J4948**
Cowhide	Cotton	Straight	Unlined	Knit Wrist	Red Striped	S, L, XL	**D1564**
Cowhide	Cotton	Wing	Unlined	Safety	Red/White	S, L, XL, 2XL	**D1565**
Cowhide	Cotton	Wing	Unlined	Gauntlet	Gray	S, L, XL	**D1566**
Cowhide	Cotton	Wing	Unlined	Safety	Gray	S, L, XL	**D1567**
Cowhide	Cotton	Wing	Unlined	Gauntlet	Gray	S, L, XL	**D1568**
Cowhide	Cotton	Straight	Unlined	Knit Wrist	Blue/Gray	S, L, XL	**D1569**
Cowhide	Cotton	Wing	Unlined	Safety	Gray	S, L, XL	**D1571**
Cowhide	Cotton	Wing	Unlined	Gauntlet	Gray	S, L, XL	**D1572**
Cowhide	Cotton	Wing	Unlined	Safety	Blue/Gray/Green, Blue/Gray	S, L, XL	**D1573**
Cowhide	Cotton, Polyester	Wing	Polyester	Knit Wrist	Beige/Blue	L, XL	**D1595**
Cowhide	Cotton	Wing	Unlined	Gauntlet	Blue/Yellow	L, XL	**D1576**
Cowhide (Double Palm)	Polyester	Wing	Insulated	Knit Wrist	High Visibility Orange	S, M, L, XL	**D1697**
Pigskin	Cotton, Polyester	Wing	Thinsulate	Safety	Gold Yellow/ Blue Stripes	M, L, XL	**D1664**

*** Extra-strong Kevlar stitching.***

D1559

D1599

D1597

D1582

D1695

J4937

D1564

D1572

J3492

D1699

D1585

J3484

D1705

H7875

MCR SAFETY

Leather Palm Work Gloves

Heavy-duty gloves provide protection and abrasion resistance for demanding work environments. Leather palms and breathable back material for comfort. Gloves with hi-vis colors have reflective stripes on the back to increase safety when working in low-light or high-traffic locations. Pigskin gloves won't stiffen after getting wet; ideal when working in damp and wet conditions.

D1583, D1585, and J3484 are sewn with extra-strong Kevlar thread.

J3479 and J3484 have double leather palms for added protection.

D1699 and D1707 are slip-on with adjustable hook-and-loop closure at wrist.

Palm Material	Back Material	Thumb Style	Lining	Cuff Style	Color	▶CHOOSE: Size	Item No.
Standard Grade							
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Beige	S, M, L, XL	J3492
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Beige	L	26J609
Pigskin	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray	L	26J637
Premium Grade							
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray/Tan	S, M, L, XL, 2XL	D1583
Cowhide	Nylon	Wing	Unlined	Slip-On	Black/High-Visibility Orange	S, M, L, XL	D1699
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray	S, M, XL, 2XL	J3479
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray	S, M, L, XL, 2XL	H5446
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Gauntlet	Gray	M, L, XL	D1585
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray	M, L, XL	J3484
Cowhide	Cotton Canvas	Wing	Cotton Fleece	Safety	Gray	L	2ELF4
Goatskin	Nylon	Keystone	Thermosock®	Slip-On	Black/Lime/White	S, M, L, XL	D1707
Pigskin	Nylon	Wing	ThermoSock®	Knit	Black Palm, HiVis Orange and Yellow Back	S, M, L, XL	D1705
Pigskin	Cotton Canvas	Wing	Cotton Fleece	Safety	Beige	S, M, L, XL	J3489
Pigskin	Nylon	Wing	Cotton Fleece	Safety	Gold, HiVis Orange and Yellow	S, M, L, XL	H7875

D1574

D1584

J4945

D1578

Condor
MCR SAFETY

Leather Work Gloves

- Full leather construction on palm and back

Condor—Seamless-backed gunn-cut gloves have reinforced seams for increased durability and wear life. Wing thumb gives a comfortable grip and free movement.

MCR Safety—Select side-split leather gloves are sewn with extra-strong Kevlar thread. D1584 has a double palm with 2 layers of leather for added protection.

Glove Material	Thumb Style	Lining	Cuff Style	Color	▶CHOOSE: Size	Brand	Item No.
Premium Grade							
Cowhide	Wing	Cotton/Polyester	Gauntlet	Gray	S, L, XL	Condor	D1574
Cowhide	Straight	Cotton Fleece	Safety	Gray	M, L, XL	Mcr Safety	D1584
Cowhide	Wing	Cotton Fleece	Safety	Gray	L, XL	Mcr Safety	J3486
Goatskin	Wing	Cotton	Gauntlet	Yellow	S, M, L, XL, 2XL	Condor	J4945
Goatskin	Wing	Unlined	Hook-and-Loop	Brown	M, L, XL	Condor	D1578

55LC78

55LC74

BDG BOB DALE GLOVES

Leather Palm Work Gloves

- Universal fit
- Gunn cut

Durable, everyday work gloves have leather palm, index finger, and fingertips with a cotton canvas back for breathability. Wing thumb provides good grip and movement. Leather knuckle strap across the back for added protection.

55LC77 has leather palm patch.

55LC60 has a double leather palm.

55LC60

Palm Material	Lining	Cuff Style	Color	Size	Item No.
Standard Grade					
Cowhide	Cotton Fleece	Safety	Blue/Gray/Yellow	L/9	55LC71
Cowhide	Cotton Fleece	Safety	Blue/Tan/Yellow	L/9	55LC78
Cowhide	Cotton Fleece	Safety	Blue/Tan/Yellow	L/9	55LC75
Cowhide	Cotton Fleece	Safety	Green/Pearl	L/9	55LC74
Cowhide	Cotton Fleece	Safety	Blue/Tan/Yellow	L/9	55LC77
Cowhide	Cotton Fleece	Safety	Blue/Gray/Yellow	XL/10	55LC70
Premium Grade					
Cowhide	Cotton Fleece	Gauntlet	Gray/Teal	L/9	55LC60
Pigskin	Cotton Fleece	Safety	Blue/Tan/Yellow	L/9	55LC99

Glove Clips

Condor
Tenacious ergodyne Work Gear

Nonconductive plastic clip attaches to belt loop or clothing to hold gloves for easy access.

Description	▶CHOOSE: Color	Brand	Mfr. Model	Item No.
Double Clip	Black, Blue, Lime, Orange	Condor	—	H7255
Belt Clip	Black, Blue, Lime, Orange, Red	Squids By Ergodyne	3405	E5405

H7255

E5405

Find Reflective Aluminized Gloves on page 1732.

2AP57

21RJ34

5T355

Hot Mill Gloves

- One size fits most

Heat-resistant cut-and-sewn work gloves are suitable for a variety of industrial and manufacturing applications.

Condor— Cotton Hot Mill gloves are clute cut. 4TJY2 and 4TJU8 have burlap liner for extra heat resistance.

Kevlar/Cotton Hot Mill gloves are cotton/Kevlar blend to provide better abrasion resistance. Wool lined.

MCR Safety—Cotton canvas gloves have a knuckle strap to protect back of hand. All slip-on styles have 2.5" band top. Styles 9132, 9132G, and 9136K are heavyweight with a burlap lining for extra heat protection. Style 9124C has a 100% cotton liner. Style 9124K has a recycled material liner.

Description	Max. Temp.	Length	Fabric Weight	Cuff Style	Color	Brand	Item No.
Cotton Hot Mill Gloves	250 °F	10 in	18 oz	Knit	White/Red	Condor	**5MPK7**
	275 °F	10 in	22 oz	Straight	Beige	Condor	**6AJ18**
	275 °F	11 in	22 oz	Straight	Beige	Condor	**2AP57**
Hot Mill 9132K	500 °F	10.25 in	32 oz	Slip-On	Beige	Mcr Safety	**26J639**
Cotton Hot Mill Gloves	500 °F	10.5 in	32 oz	Straight	Beige	Condor	**4TJY2**
	500 °F	12.5 in	32 oz	Straight	White/Red	Condor	**4TJU8**
Hot Mill 9132G	500 °F	12.5 in	32 oz	Gauntlet	Beige	Mcr Safety	**26J772**
Hot Mill 9124C	605 °F	10.25 in	18 oz	Slip-On	Beige	Mcr Safety	**26J218**
Hot Mill 9124K	605 °F	10.25 in	18 oz	Slip-On	Beige	Mcr Safety	**21RJ34**
Hot Mill 9132	605 °F	10.25 in	32 oz	Slip-On	Beige	Mcr Safety	**26J674**
Hot Mill 9136K	605 °F	10.25 in	36 oz	Slip-On	Beige	Mcr Safety	**26J773**
Kevlar/Cotton Hot Mill Gloves	660 °F	11 in	22 oz	Gauntlet	Yellow	Condor	**5T354**
	660 °F	14 in	22 oz	Gauntlet	Yellow	Condor	**5T355**
	660 °F	18 in	22 oz	Gauntlet	Yellow	Condor	**5T356**

1C296

4JD73

4JD55

19TU13

61KA10

Heat-Resistant Mitts & Covers

Mitt Covers fit over most gloves or mitts to add a second layer of protection when handling hot items. Made from Kevlar knit material.

Terry Cloth cotton lined reversible mitts give 4 wearing surfaces per pair.

Baker's pad features an elastic wrist strap. Cut and sewn loop-out. 11" length.

Aramid mitts offer heat and abrasion protection. 14" length.

Fiberglass/silica and HPPE mitts are insulated for hot or cold applications.

Description	Max. Temp.	Length	Color	Cuff Style	Brand	Item No.
Mitt Covers, Reversible	480 °F	9 in	Yellow	Straight	Condor	**1C296**
Terry Cloth Lined Mitts	450 °F	10.5 in	Brown/White	Straight	Condor	**4JD73**
Terry Cloth Lined Mitts	450 °F	17 in	White	Gauntlet	Condor	**4JD74**
Terry Cloth Baker's Pad, Sold Individually	—	—	White	—	Condor	**4JD55**
Aramid Hand Mitts	600 °F	—	Yellow	—	Chicago Protective Apparel	**19TU13**
Fiberglass/Silica Hand Mitts	—	14 in	Beige	Gauntlet	Bdg	**61KA10**
HPPE Hand Mitts	—	14 in	Beige	Gauntlet	Bdg	**61KA11**

Heatworx Heat-Resistant Gloves

D1723

Palms are heat, cut, abrasion, and shrink resistant. Repel oil and water. Excellent protection for handling hot objects. Gauntlet cuffs.

Reinforced gloves utilize Hotshield palm technology. Back-of-hand and palm liner are made with Kevlar, in addition to Kevlar stitching.

Heavy-duty gloves have a full Kevlar shell, Kevlar/Nomex blend palm liner, and a molded silicone palm for enhanced heat and puncture resistance. Nomex stitching.

Note: Max. temp. may vary depending on application, weight of product, and length of time handled.

Description	Max. Temp.	Length	▶CHOOSE: Size	Mfr. Model	Item No.
Reinforced	450 °F	11 ¼ in	S, M, L,	HW4	**D1723**
Heavy-Duty 2	600°F	11 ¼ in	XL, 2XL	HW6X	**D1724**

Heat-Resistant Leather Gloves

2AH63

5T358

- One size fits most
- Clute cut
- Wool lined

Cowhide leather provides abrasion resistance in addition to heat resistance. Gloves have straight thumbs and are nylon sewn. Full leather gloves have leather palm and back with cotton safety cuff. Leather palm gloves have a cowhide palm and thumb with a gauntlet cuff.

Max. Temp.	Length	Item No.
Full Leather		
500°F	10 in	**2AH63**

Max. Temp.	Length	Item No.
Leather Palm		
482°F	11 in	**5T357**
482°F	14 in	**5T358**

3PWF1

3PWG2

56KE10

ZETEX
ZETEX PLUS®

High-Heat Protective Gloves & Mitts

Woven fiberglass fabric provides superior insulation and extreme heat protection.

Zetex gloves are double-stitched and reinforced with a wool liner.

ZetexPlus gloves are made from fiberglass fabric treated with a vermiculite coating that boosts the heat resistance of the glove, and provides protection at higher temperatures for a longer period of time. 56KE11, 56KE12, and 3PWG4 have double palm construction for added protection.

Max. Temp.	Length	Color	Cuff Style	Item No.
Zetex				
Gloves				
1,300 °F	11 in	White	Slip-On	**3PWF1**
1,300 °F	14 in	White	Gauntlet	**3PWE9**
1,300 °F	23 in	White	Extended Gauntlet	**3PWG1**
Mitts				
1,300 °F	14 in	White	Slip-On	**3PWF5**
ZetexPlus				
Gloves				
2,000 °F	11 in	Tan	Slip-On	**3PWF2**
1,500 °F	14 in	Tan	Gauntlet	**56KE11**
2,000 °F	23 in	Tan	Extended Gauntlet	**3PWG2**
1,500 °F	23 in	Tan	Extended Gauntlet	**56KE12**
Mitts				
1,500 °F	11 in	Tan	Slip-On	**56KE10**
2,000 °F	14 in	Tan	Gauntlet	**3PWF9**
2,000 °F	23 in	Tan	Extended Gauntlet	**3PWG3**
2,000 °F	23 in	Tan	Extended Gauntlet	**3PWG4**

Crusader Flex Heat-Resistant Gloves

2-pc. construction eliminates outseams for improved comfort, dexterity, flexibility, and grip. Nonwoven felt insulation on inner front for superior heat protection. Gray color.

Max. Temp.	L	▶CHOOSE: Size	Mfr. Model	Item No.
400 °F	14 in	9, 10	42-474	**D1613**

Find Reflective Aluminized Gloves on page 1732.

5AV90

5MPK4

2AK66

1ZPP3

2ENE3

4A277

5T942

4JF36

4JC94

4JC92

26H589

26K026

Condor MCR SAFETY

Heat-Resistant Knit Gloves

Loop-in style gloves reduce snags and increase longevity. Loop-out style protects against abrasion and provides nonslip grip.

COTTON TERRY CLOTH GLOVES

Reversible, seamless gloves provide 4 wear surfaces. Insulate against elevated temperatures.

KEVLAR/COTTON BLEND TERRY CLOTH GLOVES

Reversible and seamless with knit wrist.

KEVLAR COTTON LINER TERRY CLOTH GLOVES

Cotton interior absorbs moisture. Ambidextrous and seamless.

NOMEX/KEVLAR GLOVE

Ambidextrous glove has cotton lining.

C-TREAD GLOVES

Ambidextrous gloves have a C nitrile coating to improve grip. Inner knit layer bonded to waffle design. Cushioned outer cotton/poly layer resists heat. 1AHE9 features a vaporproof membrane. 2ENE3 is uncoated.

KEVLAR C-TREAD COATED GLOVES

Ambidextrous gloves have a C nitrile coating to improve grip. Inner knit layer bonded to waffle design. Kevlar/cotton blend outer layer protects against cuts and slashes.

COATED HEAVYWEIGHT COTTON BLEND GLOVES

Glove-within-glove design. Nitrile C coating for added thermal protection, grip, and abrasion resistance. Ambidextrous with seamless knit construction.

HEAVYWEIGHT TERRY CLOTH GLOVES

Lined, reversible gloves have extra heavyweight material for extended wear and heat protection.

FLAME-RETARDANT TERRY CLOTH GLOVES

Ambidextrous, lined gloves have extra heavy-weight material.

MCR SAFETY MEDIUMWEIGHT

Seamless reversible gloves resist heat and abrasion for general purpose applications.

MCR SAFETY HEAVYWEIGHT

Durable fabric protects hands from heat and cut hazards.

Description	Max. Temp.	Length	Fabric Weight	Cuff Style	Size	Color	Brand	Item No.
Cotton Terry Cloth Gloves, Loop-Out	250 °F	8.25 in	24 oz	Knit	S	Beige	Condor	**3AP36**
Cotton Terry Cloth Gloves, Loop-In	250 °F	8.75 in	24 oz	Knit	S	White	Condor	**6AF64**
	250 °F	9 in	16 oz	Knit	S	White	Condor	**5AP60**
Cotton Terry Cloth Gloves, Loop-Out	250 °F	9 in	24 oz	Knit	L	White	Condor	**3AT17**
Cotton Terry Cloth Gloves, Loop-In	250 °F	9.75 in	24 oz	Knit	L	White	Condor	**2AP49**
	250 °F	10 in	16 oz	Knit	L	White	Condor	**5AV90**
Kevlar/Cotton Blend Terry Cloth Gloves, Loop-Out	500 °F	10 in	24 oz	Knit	S	Yellow/Brown	Condor	**5MPK5**
	500 °F	10 in	24 oz	Knit	L	Yellow/Brown	Condor	**5MPK4**
Kevlar Cotton Liner Terry Cloth Gloves	500 °F	10 in	24 oz	Knit	L	Yellow	Condor	**2AK66**
Nomex/Kevlar Glove, Sold Individually	480 °F	11.5 in	—	Knit	L	White	Condor	**1ZPP3** *
C-Tread Knit Glove, Extended, Sold Individually	400 °F	18 in	—	Knit	L	White	Condor	**2ENE3** *
C-Tread Knit Gloves	480 °F	10.75 in	—	Knit	XL	Beige	Condor	**4A277**
C-Tread Knit Gloves, Steamproof	482 °F	10.75 in	—	Knit	L	Beige	Condor	**1AHE9**
Kevlar C-Tread Coated Gloves	400 °F	11 in	95 g	Knit	XL	Beige	Condor	**5T942**
Coated Heavyweight Cotton Blend Gloves	605 °F	10.5 in	24 oz	Knit	L	Beige	Condor	**4JF36**
Heavyweight Terry Cloth Gloves	450 °F	10.5 in	40 oz	Slip-On	XL	Brown	Condor	**4JC94**
	450 °F	13 in	40 oz	Gauntlet	XL	Brown	Condor	**4JC91**
Flame-Retardant Terry Cloth Gloves	—	—	—	Gauntlet	XL	Red	Condor	**4JC92**
Mediumweight Cotton Terry, Loop-Out	500 °F	8.5 in	18 oz	Knit	S	Beige	Mcr Safety	**26H630**
Mediumweight Cotton Terry, Loop-In	500 °F	9.75 in	16 oz	Knit	S	Gray	Mcr Safety	**26H589**
X-Heavyweight Cotton Terry, Loop-Out	400 °F	10.75 in	32 oz	Knit	L	Beige	Mcr Safety	**26J731**
Heavyweight Cotton Terry, Loop-Out	500 °F	10.25 in	28 oz	Knit	L	Brown/White	Mcr Safety	**392D32**
	500 °F	18.5 in	32 oz	Gauntlet	L	Brown/White	Mcr Safety	**26K344**
	605 °F	13.5 in	28 oz	Gauntlet	L	Blue	Mcr Safety	**26K026**

***** *Sold individually.*

Condor MCR SAFETY

Heat-Resistant Knit Sleeves

- Sold individually

Elastic on both ends keeps sleeve snugly in place. **100% Cotton** sleeve protects full arm from heat. **Terry Cloth** sleeves have loop out fabric that provides both heat and abrasion protection.

Description	Max. Temp.	Length	Fabric Weight	Color	Brand	Item No.
100% Cotton	200 °F	17 in	9 oz/sq yd	White	Condor	**1NXN1**
Terry Cloth, Med. Wt.	200 °F	16 in	9 oz.	Beige	Condor	**4JD86**
Terry Cloth, Heavy Wt.	350 °F	19 in	9 oz.	White	Condor	**4JD84**
Terry Cloth	392 °F	18 in	16 oz	Beige	Mcr Safety	**392D33**

4JD84
1NXN1

Find Glove sizing information on page 1687; find Material and Style information on page 1717.

D1603

D1604

D1657

4AZG3

4AZG2

4AZH4

3TCC1

D6149

G6135

23J996

G6136

D6152

D1607

G6139

D6151

H6307

H7890

D1611

D1663

Welding Gloves

APPLICATIONS

Stick—Thick, heavy-duty gloves with welted seams offer superior burn, spark, and high heat protection.

MIG—Provide good burn, spark, and medium heat protection. Lighter with good dexterity to allow operation of trigger and welding guns.

TIG—Thinner leather provides superior feel and dexterity with light burn, spark, and heat protection.

Palm Material	Back Material	Length	Lining	Stitching Material	Cuff Style	Color	▶CHOOSE: Size	Brand	Mfr. Model	Item No.
Stick										
Cowhide	Cowhide	12 ½ in	Cotton/ Polyester	Polyester	Gauntlet	Gray	M	Condor	—	**D1603**
Cowhide	Cowhide	12 ¼ in	Cotton/ Polyester	Kevlar®	Gauntlet	Brown	M	Condor	—	**D1604**
Cowhide	Cowhide	13 ½ in	Cotton/ Polyester	Kevlar®	Gauntlet	Blue	M	Condor	—	**D1657**
Cowhide	Cowhide	14 in	Cotton/ Polyester	Polyester	Gauntlet	Gray, Brown	L, XL	Condor	—	**D1603**
Cowhide	Cowhide	13 in	Cotton/ Polyester	Kevlar®	Gauntlet	Brown	L	Condor	—	**D1604**
Cowhide	Cowhide	13 ¾ in	Cotton/ Polyester	Kevlar®	Gauntlet	Blue	L, XL	Condor	—	**D1657**
Cowhide	Cowhide	14 in	Cotton/ Polyester	Kevlar®	Gauntlet	Brown	XL	Condor	—	**D1604**
Cowhide	Cowhide	14 in	Cotton	Kevlar®	Gauntlet	Yellow	L	Steiner	021NT	**4AZG3**
Cowhide	Cowhide	14 in	Cotton	Kevlar®	Knit	Brown	L	Steiner	2119B-KSC	**4AZH3**
Cowhide	Cowhide	18 in	Cotton	Kevlar®	Gauntlet	Brown	L	Steiner	21918	**4AZG2**
Cowhide	Cowhide	18 in	Cotton	Kevlar®	Knit	Brown	L	Steiner	21918-KSC	**4AZH4**
Cowhide	Cowhide	13 ½ in	Cotton Fleece	Kevlar®	Gauntlet	Red	XL	Mcr Safety	4320	**26K382**
Cowhide	Cowhide	13 ½ in	Cotton Jersey	Kevlar®	Gauntlet	Blue	XL	Mcr Safety	4600	**3TCC1**
Elkskin	Elkskin	16 ¼ in	Cotton/Foam	Kevlar®	Straight	White	S, M	Tillman	750	**D1605**
Elkskin	Elkskin	16 ½ in	Cotton/Foam	Kevlar®	Straight	White	L, XL	Tillman	750	**D1605**
Elkskin	Cowhide	16 ¼ in	Cotton/Foam	Kevlar®	Straight	Tan	S, XL	Tillman	850	**D6149**
Elkskin	Cowhide	11 in	Cotton/Foam	Kevlar®	Straight	Tan	M, L	Tillman	850	**D6149**
Pigskin	Pigskin	15 in	Cotton/Foam	Kevlar®	Straight	Brown	S, M, L, XL	Tillman	495	**J3140**
MIG, Stick										
Cowhide	Cowhide	13 in	Fleece/Foam	Kevlar®	Gauntlet	Tan	L, XL	Caiman	1810	**G6135**
Cowhide	Cowhide	—	Fleece/Foam	Kevlar®	Gauntlet	Tan	M	Caiman	1810-4	**G6135**
Cowhide	Cowhide	—	Fleece/Foam	Kevlar®	Gauntlet	Tan	2XL	Caiman	1810-7	**G6135**
Deerskin	Deerskin	13 ½ in	Wool	Kevlar®	Gauntlet	Black	L	Caiman	1852	**23K005**
Deerskin	Deerskin	21 in	Fleece	Kevlar®	Extended Gauntlet	Black	L	Caiman	1878	**23J997** *
Deerskin	Deerskin	21 in	Fleece	Kevlar®	Extended Gauntlet	Black	L	Caiman	1878	**23J996**
Pigskin	Cowhide	13 ½ in	Fleece/Foam	Kevlar®	Gauntlet	Gold	L, XL	Caiman	1812	**G6136**
MIG										
Cowhide	Cowhide	13 ¼ in	Unlined	Kevlar®	Straight	White	S, M, L, XL	Tillman	1350	**D1606**
Cowhide	Cowhide	—	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	S	Tillman	50	**D6152**
Cowhide	Cowhide	13 in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	M	Tillman	50	**D6152**
Cowhide	Cowhide	13 ¼ in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	L	Tillman	50	**D6152**
Cowhide	Cowhide	14 in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	XL	Tillman	50	**D6152**
Cowhide	Cowhide	—	Cotton Fleece	Kevlar®	Gauntlet	White	2XL	Tillman	502X	**D6152**
Pigskin	Pigskin	13 ¼ in	Cotton/Foam	Kevlar®	Straight	Tan	S, M, L	Tillman	42	**D1607**
Pigskin	Pigskin	13 in	Cotton/Foam	Kevlar®	Straight	Tan	XL	Tillman	42	**D1607**
MIG, TIG										
Cowhide	Cowhide	9 in	Fleece	Kevlar®	Hook-and-Loop	Gold	M	Caiman	1828	**G6139**
Cowhide	Cowhide	10 in	Fleece	Kevlar®	Hook-and-Loop	Gold	L, XL	Caiman	1828	**G6139**
Goatskin	Cowhide	12 ½ in	Fleece/Foam	Kevlar®	Gauntlet	White	S, M, L, XL	Caiman	1540	**K1992**
Goatskin	Cowhide	13 in	Fleece	Kevlar®	Gauntlet	White	M, L, XL	Caiman	1868	**G6138**
Goatskin	Goatskin	13 in	Unlined	Kevlar®	Gauntlet	Gold	M, L, XL	Caiman	1869	**G6141**
Goatskin	Cowhide	11 in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	M	Tillman	48	**D6151**
Goatskin	Cowhide	12 in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	L	Tillman	48	**D6151**
Goatskin	Cowhide	13 in	Cotton Fleece	Kevlar®	Gauntlet	Brown/White	XL	Tillman	48	**D6151**
Goatskin	Goatskin	12 ¼ in	Unlined	Kevlar®	Gauntlet	White	M, L	Mcr Safety	4850	**H6306**
Goatskin	Goatskin	12 ¾ in	Unlined	Kevlar®	Gauntlet	White	XL, 2XL	Mcr Safety	4850	**H6306**
Goatskin	Cowhide	14 in	Unlined	Kevlar®	Gauntlet	Beige	S	Mcr Safety	4950	**H6307**
Goatskin	Cowhide	13 ½ in	Unlined	Kevlar®	Gauntlet	Beige	M, L, XL	Mcr Safety	4950	**H6307**
TIG										
Deerskin	Deerskin	13 in	Unlined	Kevlar®	Gauntlet	Gray	M, L, XL	Caiman	1864	**G6140**
Goatskin	Kidskin	12 in	Unlined	Kevlar®	Gauntlet	White	S, M, L, XL	Condor	—	**H7890**
Goatskin	Goatskin	10 ¾ in	Unlined	Kevlar®	Gauntlet	White	M	Condor	—	**D1611**
Goatskin	Goatskin	11 ¼ in	Unlined	Kevlar®	Gauntlet	White	L	Condor	—	**D1611**
Goatskin	Goatskin	11 ¾ in	Unlined	Kevlar®	Gauntlet	White	XL	Condor	—	**D1611**
Goatskin	Goatskin	—	Unlined	Kevlar®	Straight	White	S, M, XL	Tillman	1328	**J3051**
Goatskin	Goatskin	13 ¼ in	Unlined	Kevlar®	Straight	White	L	Tillman	1328	**J3051**
Kidskin	Nomex®	10 in	Unlined	Kevlar®	Hook-and-Loop	Black	S, M, L, XL	Steiner	0260	**D1663**
Kidskin	Kidskin	12 in	Unlined	Kevlar®	Gauntlet	Black	S, M, L, XL	Steiner	0266	**D1662**
Kidskin	Kidskin	—	Unlined	Kevlar®	Straight	White	S, M, L, XL	Tillman	24C	**D1612**
Pigskin	Pigskin	11 ½ in	Cotton/ Polyester	Kevlar®	Gauntlet	Yellow	M	Condor	—	**D1609**
Pigskin	Pigskin	12 in	Cotton/ Polyester	Kevlar®	Gauntlet	Yellow	L	Condor	—	**D1609**
Pigskin	Pigskin	12 ¾ in	Cotton/ Polyester	Kevlar®	Gauntlet	Yellow	XL	Condor	—	**D1609**

** Sold as left hand only.*

Knee Pads

WESTWARD

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Item No.
Nonmarring						
EVA Foam	EVA Foam	Hook-and-Loop	Elastic	2	Gray/Black	**12F688**
Foam	EVA Foam	Hook-and-Loop	Elastic	1	Gray/Black	**12F689**
Polyester	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZP1**
Polyester	EVA Foam	Quick Release	Elastic	2	Black/Blue	**12F681**
PVC	EVA Foam	Button-and-Loop	Rubber	2	Gray	**12F685**
PVC	EVA Gel Foam	Button-and-Loop	Rubber	2	Blue	**12F684**
Nonskid						
Polypropylene	EVA Foam	Hook-and-Loop, Quick Release	Elastic	2	Black	**12F682**
Polypropylene	EVA Gel Foam	Hook-and-Loop, Quick Release	Elastic	2	Black	**12F683**
Polypropylene	EVA Foam	Quick Release	Neoprene	2	Black/Blue/White	**12F680**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Blue/White	**5MZH7**
Stabilizer						
Polypropylene and TPR	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black	**5MZN5**
Polyurethane	Neoprene	Hook-and-Loop	Elastic	1	Black/Blue	**5MZH8**
TPR	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZR0**
Swivel						
Polypropylene	EVA Foam	Hook-and-Loop	Elastic	2	Black/Gray	**12F686**
Polypropylene	Polyethylene	Hook-and-Loop	Elastic	2	Black/Gray	**5MZH5**
Polypropylene	EVA and PU Gel	Hook-and-Loop	Elastic	1	Black/Blue	**5MZH9**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Black/White	**5MZH6**
Polypropylene	EVA Gel Foam	Quick Release	Elastic	2	Black	**5MZN1**

Nonmarring 12F688

Nonskid 12F682

Stabilizer 5MZH8

Swivel 5MZH5

Knee Pads

CLC Custom LeatherCraft

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Nonmarring							
EVA Foam	EVA Foam	Hook-and-Loop	Elastic	2	Black	V229	**22PN90**
Natural Rubber	Natural Rubber	Hook-and-Loop	Elastic	1	Rust	V310	**5LF32**
Polyester	EVA Foam	Quick Release	Nylon and Elastic	2	Black	342	**5DYP0**
Nonskid							
Polypropylene	EVA Foam	Hook-and-Loop, Quick Release	Elastic	2	Black	345	**3HY94**
PVC	EVA Foam	Button-and-Loop	Rubber	2	Gray	361	**5LD97**
TPR	EVA Foam	Hook-and-Loop	Elastic	2	Black/White	V234	**5LF31**
Stabilizer							
Polypropylene	EVA Foam	Hook-and-Loop, Quick Release	Elastic (Upper), Neoprene (Lower)	2	Black	G340	**3HY95**
PVC	EVA Foam	Quick Release	Nylon and Elastic	2	Black	339	**5DYN5**
Swivel							
Polypropylene	EVA Foam	Hook-and-Loop	Elastic	2	Black/White	V230	**5LF30**
Polypropylene	PU Gel	Quick Release	Nylon and Elastic	2	Gray	375	**5ZPJ4**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Black/White	V237	**4ZB27**
Polypropylene	EVA Foam	Quick Release	Elastic	2	Blue/White	V6355	**5LF33**

Nonmarring 5DYP0

Nonskid 3HY94

Stabilizer 3HY95

Swivel 5LF30

Knee Pads

DEWALT

Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Nonmarring							
Polyester	EVA	Quick Release	Nylon	2	Black/Yellow	DG5224	**3XUU2**
Stabilizer							
Rubber	Gel, PU Foam	Button-and-Loop	Rubber	2	Black	DG5217	**3XUU1**
Polypropylene and TPE	EVA and PU Gel	Hook-and-Loop, Quick Release	Elastic (Upper), Neoprene (Lower)	2	Black/Yellow	DG5204	**3XUT9**

Nonmarring 3XUU2

Stabilizer 3XUT9

Proflex® Knee Pads

Tenacious ergodyne Work Gear

Cap Style	Cap Material	Pad Material	Closure Type	Strap Material	No. of Straps	Color	Mfr. Model	Item No.
Short Cap								
Hard Shell	Rubber	EVA Foam, Lightweight Gel	Clip	Nylon and Elastic	2	Black	357	**53PZ85**
Hard Shell	Rubber	Gel, PU Foam	Clip	Elastic	2	Black	344	**53PZ81**
Long Cap								
Hard Shell	Rubber	EVA Foam, Lightweight Gel	Clip	Nylon and Elastic	2	Black	347	**53PZ83**
Hard Shell	Rubber	Gel, PU Foam	Clip	Elastic	2	Black	345	**53PZ82**

Short Cap 53PZ85

Long Cap 53PZ82

Kneeling Mats

IMPACTO · Condor · NOTRAX MATS FOR PROFESSIONAL USE · CLC Custom LeatherCraft

Material	L	W	Edges	Brand	Mfr. Model	Item No.
Cut Out Carry Handle						
Closed Cell Foam Rubber	16 in	8 in	Tapered	Impacto	MAT5040	**21NN37**
NBR	22 in	12 in	Squared	Condor	—	**22EN49**
Nitrile/PVC Sponge Blend	22 in	12 in	Squared	Notrax	950S	**2HNV9**
Cut Out Carry Handle and Safety Yellow Border						
NBR	21 in	14 in	Squared	Condor	—	**22EN46**
NBR	21 in	14 in	Square	CLC	302	**13R623**
NBR	28 in	16 in	Tapered	Condor	—	**22EN47**
NBR	28 in	16 in	Tapered	CLC	303	**13R624**
NBR	36 in	18 in	Tapered	Condor	—	**22EN48**
NBR	36 in	18 in	Tapered	CLC	305	**13R625**
Cut Out Carry Handle and Laminated Rubber Bottom Surface						
NBR	22 in	12 in	Squared	Condor	—	**22EN50**
Nitrile/PVC Sponge Blend	22 in	12 in	Squared	Notrax	951S	**2HNW1**

13R623

Choose the Right Ergonomic Products to Help Prevent Injuries

Using **ergonomic principles** that design the workplace to accommodate employees can help in **avoiding Work-Related Musculoskeletal Disorders** (WMSDs). MSDs are soft tissue injuries that affect the blood vessels, ligaments, muscles, nerves, and tendons.

Investment and Return
Simple and relatively inexpensive workplace modifications such as adjustable work platforms, footrests, or chairs can aid in major reductions in workplace stress.

Corrective Measures
A reduction in workplace stress can help decrease lost work days and improve productivity and team member morale. Employee training on ergonomic issues can aid personnel in identifying problem areas within their work area that may require ergonomic improvements.

Employee Evaluation
Receiving feedback from team members regarding their ergonomically-designed tools and furniture can help ensure the equipment meets their specific requirements.

Read the full article "Prevent Workplace Injuries with Ergonomics" at **grainger.com/prevent-injuries**

The Safety Record℠

Your online source for safety news and other information to help you keep your facility and people safe.
Visit **safety.grainger.com**

OccuNomix

Back Support

Features durable nylon fabric, EVA memory foam core, roller-style buckle, hook-and-loop closure, and radio attachment. Ambidextrous design.

Description	W	▶CHOOSE: Size	Item No.
Foam Core	5 in	S, M, L, XL, 2XL, 3XL	H4788

4WW02

Condor

Ambidextrous Wrist Supports

Lightweight, washable supports made of woven elastic with hook-and-loop-closure. Black color.

Description	Size	Item No.
Single Strap	Universal	3RYC4
Single Strap with Thumb Loop	Universal	3RYC6
Slide-On with Single Strap	Universal	4WV98
Slide-On with Single Strap and Thumb Loop	S/M	4WW02
Slide-On with Single Strap and Thumb Loop	L/XL	4WW03

H4110

ergodyne

ProFlex® Back Supports

Spandex body material and stretchable bias binding with zig-zag stitching. With hook-and-loop closure and adjustable, detachable suspenders. H4111 and H4110 feature nonconductive Sticky Fingers® stays and Power Panel Positioners™. H4110 has V-shaped design.

Description	W	▶CHOOSE: Size	Item No.
280 Denier	8 ¾ in	Universal	31XW92
280 Denier	8 in	XS, S, M, L, XL, 2XL, 3XL, 4XL	H4111
840 Denier	8 ½ in	XS, S, M, L, XL, 2XL, 3XL, 4XL	H4110

D0585

D0581

D0586

Condor

Back Supports

Elastic Knit Supports—Elastic construction provides gentle compression and warmth for a more comfortable fit.

Spandex Supports—Spandex fabric is breathable and provides firm support for a more comfortable fit. D0581 and D0588 feature stretchable bias binding for greater flexibility, a wider range of motion, and a more comfortable fit.

Weight-Lifter's Style Support with Lumbar Pad—Feature more support, less flexibility, and a restricted range of motion compared to other back supports. Ideal for use in heavy lifting applications.

Description	W	Suspenders	Closure Type	▶CHOOSE: Size	Item No.
Elastic Knit Supports with Adjustable Shoulder Strap Guide					
2 Support Stays	7½"	1½ in Detachable Knit Elastic	Single Strap Hook-and-Loop	M, L, XL, 2XL	D0585
2 Support Stays	9"	1½ in Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0584
6 Support Stays	9"	1½ in Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL	D0591
Elastic Knit Supports					
4 Support Stays	8"	1½ in Detachable	Hook-and-Loop	S, M, L, XL	D0718
4 Support Stays, Hi-Vis Orange Body	8"	1½ in Detachable Knit Elastic	Hook-and-Loop	M, L, XL, 2XL	D0587
5 Support Stays	9⅜"	1½ in Detachable Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0589
Spandex Support with Adjustable Shoulder Strap Guide					
840 Denier, 4 Stays	9"	1½ in Woven Elastic	Hook-and-Loop	S, M, L, XL, 2XL	D0581
Spandex Supports					
280 Denier, 4 Stays	8"	1½ in Detachable Knit Elastic	Hook-and-Loop	Universal	1UM53
280 Denier, 4 Stays	8"	1½ in Detachable Knit Elastic	Hook-and-Loop	S, M, L, XL	D0582
280 Denier, 4 Stays	8"	1½ in Detachable Knit Elastic	Hook-and-Loop	S, M, L, XL, 2XL	D0588
Weight-Lifter's Style Support with Ventilated Lumbar Pad					
Mesh Outer Shell	8"	None	Hook-and-Loop	S, M, L, XL	D0586
Weight-Lifter's Style Support with Removable Lumbar Pad					
Elastic Knit with 5 Stays, and Adjustable Shoulder Strap Guide	9"	1½ in Knit Elastic	Double Hook-and-Loop	S, M, L, XL, 2XL	D0592
Weight-Lifter's Style Support with Foam Core Lumbar Pad					
Polyester Mesh with Stay and Adjustable Shoulder Strap Guide	9"	1½ in Knit Elastic	Double Overlap	Universal	3RVA8
Polyester Knit	6"	None	Torque Ring	S, M, L, XL, 2XL	D0717
Polyester Knit	6"	None	Cam Buckle	S, M, L, XL, 2XL	D0715
600 Denier Nylon	8"	None	Single Strap Hook-and-Loop	S	D0583
600 Denier Nylon	8"	None	Hook-and-Loop	M, L, XL, 2XL	D0583

Establishing an Electrical Safety Work Program

OSHA 29 CFR 1910.333(a) states that employers must employ safety-related work practices to prevent electrical shock or other injuries resulting from either direct or indirect electrical contact. The **NFPA 70E Standard for Electrical Safety in the Workplace** requires employers to perform an **Electrical Arc Hazard Assessment** for each situation.

A hazard assessment must be performed using 1 of the following 2 methods:

1. Incident Energy Analysis 2. Arc Flash PPE Category

The **Grainger Online SafetyManager® System** offers NFPA 70E Electrical Safety Training - 2015 Series to help you keep your workplace in compliance with the NFPA 70E Electrical Safety standard. Access our library of **easy-to-follow training courses** (subscription required), including Training Module 4: Personal Protective Equipment and Clothing requirements, as well as **helpful technical articles** at **grainger.com/safetymanager**

Protective Clothing and Personal Protective Equipment Table 130.7(C)(16)

Arc Flash Category*	Minimum ATPV Rating cal./cm²	Required Garments	Required Protective Equipment
1	4	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
2	8	Shirt (Long Sleeve) and Pants (Long) or Coveralls; Flash Suit Hood or Faceshield and Balaclava; Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
3	25	Shirt (Long Sleeve) (AR); Pants (Long) (AR); Coveralls (AR); Flash Suit Jacket (AR); Flash Suit Pants (AR); Flash Suit Hood, Gloves, Jacket, Parka, Rainwear, or Hard Hat Liner (AN)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)
4	40	Shirt (long sleeve) (AR); Pants (Long) (AR); Coveralls (AR); Flash Suit Jacket (AR); Flash Suit Pants (AR)	Hard Hat; Safety Glasses or Goggles (SR); Hearing Protection (Ear Canal Inserts); Heavy Duty Leather Gloves; Leather Footwear (AN)

** 1 of the 2 methods used to determine the PPE category for a job task. AN = As Needed (Optional), AR = As Required, SR = Selection Required.*

Arc Flash & Flame-Resistant Apparel Materials

Arc flash materials resist burning and melting and are self-extinguishing.

Canvas is a durable woven fabric.

ComforTouch is a cotton/nylon blend that is breathable and durable.

CoolTouch2 is a breathable blend.

Cotton is breathable and flexible.

DuraStretch is a soft cotton/nylon blend that stretches with movement.

Excel FR is a breathable cotton.

GlenGuard wicks moisture to keep workers cool.

Indura is a cotton material that is comfortable, breathable, and resistant to molten iron splash.

Inherent Blend and Treated Cotton is a durable antistatic cotton that wicks moisture to keep workers cool.

Modacrylic is breathable and wicks moisture to keep workers cool.

Nomex is durable and breathable.

Nomex IIIA is a Nomex/aramid blend that is breathable and durable. It has better static dissipation than standard Nomex.

Nylon is strong and smooth and has excellent resistance to wear and abrasion.

Protera is lightweight and breathable.

PVC is a plastic that repels water.

RevoLite is a carbon fiber blend that provides high thermal protection.

UltraSoft is a cotton/nylon blend that is breathable, durable, and comfortable.

NATIONAL SAFETY APPAREL® SALISBURY by Honeywell CPA CHICAGO PROTECTIVE APPAREL

Arc Flash & Flame-Resistant Clothing Kits - Category 2

- Meet NFPA 70E standards
- Available in sizes from S to 4XL at Grainger.com

Kits include a selection of garments and headwear that protect workers from burn injuries in areas with sparks, open flame, and other potential fire hazards.

See Grainger.com for detailed descriptions of each kit's contents and garment features.

D0761

K2561

ATPV Rating	Garment Material	Includes	Color	Brand	Item No.
Without Gloves					
8 cal/sq cm	Protera®	8 Cal FR Protera Coverall, Faceshield Bag and Gear Bag, PureView Faceshield with Hard Hat, Safety Glasses	Beige	National Safety Apparel	**D0761**
8 cal/sq cm	UltraSoft®	10 Cal Balaclava, Arc Flash Coverall, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2560**
8 cal/sq cm	UltraSoft®	Arc Flash Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2562**
8 cal/sq cm	UltraSoft®	10 Cal Balaclava, Arc Flash Coat and Bib Overalls, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2563**
8 cal/sq cm	UltraSoft®	10 Cal Balaclava, Arc Flash Coat and Over Pant, AS1000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2575**
12 cal/sq cm	UltraSoft®	Coverall, Ear Plugs, Face Shield, Gear Bag, Hard Cap, Safety Glasses	Blue	Chicago Protective Apparel	**J6474**
12 cal/sq cm	UltraSoft®	12 Cal Balaclava, Arc Flash Coverall, AS1200 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2561**
12 cal/sq cm	UltraSoft®	Arc Flash Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2564**
12 cal/sq cm	UltraSoft®	Arc Flash Coverall, Lift Front PRO-HOOD, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2576**
12 cal/sq cm	UltraSoft®	Arc Flash Coat and Bib Overalls, Lift Front PRO-HOOD, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2579**
20 cal/sq cm	UltraSoft®	Arc Flash Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2565**
20 cal/sq cm	UltraSoft®	Coverall, Lift Front PRO-HOOD	Gray/Red	Honeywell Salisbury	**K2577**
20 cal/sq cm	UltraSoft®	Arc Flash Coverall, Lift Front PRO-HOOD, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2577**
20 cal/sq cm	UltraSoft®	Arc Flash Coat and Bib Overalls, Lift Front PRO-HOOD, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2578**
20 cal/sq cm	UltraSoft®	20 Cal Balaclava, Arc Flash Coverall, AS2000 PrismShield® Faceshield, Faceshield Bag, North Zone Hard Hat, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2580**
With Gloves					
12 cal/sq cm	UltraSoft®	10 in Leather Protector Gloves, 11 in Class 0 Rubber Gloves, Balaclava, Cap Bracket, Chin Cup, Ear Plugs, Face Shield, Glove and Gear Bag, Hard Cap, Jacket and Bib, Safety Glasses	Blue	Chicago Protective Apparel	**H5438**
12 cal/sq cm	UltraSoft®	11 in Class 0 Rubber Gloves, 12" Leather Protector Gloves, Balaclava, Cap Bracket, Coveralls, Ear Plugs, Face Shield with Chin Cup, Glove and Gear Bag, Hard Cap, Safety Glasses	Blue	Chicago Protective Apparel	**H5439**

K2372

K2566

Arc Flash & Flame-Resistant Clothing Kits - Category 4

- Meet NFPA 70E standards
- Available in sizes from S to 4XL at Grainger.com

Kits include a selection of garments and headwear that protect workers from burn injuries in areas with sparks, open flame, and other potential fire hazards.

K2568, K2571, K2572, and **K2569** contain improved premium garments designed for enhanced breathability and moisture management. **K2572** has a lift-front hood with a flashlight kit.

See Grainger.com for detailed descriptions of each kit's contents and garment features.

ATPV Rating	Garment Material	Includes	Color	Brand	Item No.
Without Gloves					
40 cal/sq cm	RevoLite™	40 Cal Compliance Short Coat & Bib Overall, Arc Flash Hood with PureView Faceshield, Hard Hat, Hood Bag and Gear Bag, Safety Glasses	Green	National Safety Apparel	**K2372**
40 cal/sq cm	UltraSoft®	40 Cal Compliance Short Coat & Bib Overall, Arc Flash Hood with PureView Faceshield, Hard Hat, Hood Bag and Gear Bag, Safety Glasses	Blue	National Safety Apparel	**K2373**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, Premium Lightweight Lift Front PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2570**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2568**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2566**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, Premium Lightweight Lift Front PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2571**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, Flashlight Kit, North Zone Hard Hat, Premium Lightweight Lift Front PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2572**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD with Cooling System, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2567**
40 cal/sq cm	GlenGuard®	Arc Flash Premium Lightweight Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD with Cooling System, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2569**
100 cal/sq cm	GlenGuard®	Arc Flash Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2573**
100 cal/sq cm	GlenGuard®	Arc Flash Coat and Bib Overalls, North Zone Hard Hat, PRO-HOOD with Cooling System, Safety Glasses, Storage Bag	Gray/Red	Honeywell Salisbury	**K2574**
With Gloves					
43 cal/sq cm	UltraSoft®	14 in Class 2 Rubber Gloves And 12 in Protector Gloves, Ear Plugs, Glove Bag and Gear Bag, Hood With Hard Cap, Jacket and Bib, Safety Glasses	Blue	Chicago Protective Apparel	**H5440**
44 cal/sq cm	UltraSoft®	14 in Class 2 Rubber Gloves And 12 in Protector Gloves, Ear Plugs, Glove Bag and Gear Bag, Hood With Hard Cap, Jacket and Bib, Safety Glasses	Olive	Chicago Protective Apparel	**H5441**

H0471

D1685

Arc Flash & Flame-Resistant Coveralls

- Meet NFPA 70E standards
- Available in sizes from S to 4XL at Grainger.com

Protect workers from arc flash burns that can occur when working near electrical hazards. Coveralls are a single garment worn over personal clothing or base-layer flame-resistant clothing to provide continuous coverage over the worker's front, back, arms, and legs. **H0471** features high-visibility stripes at wrists, ankles and across the back.

ATPV Rating	Material (Wt.)	Closure Type	Collar Style	▶CHOOSE: Color	Brand	Item No.
Category 1						
4.4 cal/sq cm	Nomex® IIIA (4.5 oz)	Zipper	Lay-Flat	Navy	Vf Imagewear	**H0184**
4.4 cal/sq cm	Nomex® IIIA (4.5 oz)	Zipper	Stand-Up	Navy, Blue, Tan	Vf Imagewear	**D1688**
5.2 cal/sq cm	Nomex® IIIA (6 oz)	Zipper	Stand-Up	Navy	Vf Imagewear	**H0471**
5.2 cal/sq cm	Nomex® IIIA (6 oz)	Zipper	Stand-Up	Navy, Orange, Blue	Vf Imagewear	**J6389**
Category 2						
8 cal/sq cm	Nomex® (7 oz)	Hook-and-Loop	Stand-Up	Gray/Red	Honeywell Salisbury	**K2581**
8.5 cal/sq cm	Excel FR® (7.5 oz)	Zipper	Lay-Flat	Navy	Vf Imagewear	**K1943**
8.6 cal/sq cm	ComforTouch® (7 oz)	Zipper	Lay-Flat	Gray, Navy	Vf Imagewear	**K1944**
8.6 cal/sq cm	ComforTouch® (7 oz)	Zipper	Mandarin	Navy, Blue, Khaki	Vf Imagewear	**G7291**
8.7 cal/sq cm	Cotton (7 oz)	Zipper	Lay-Flat	Gray, Navy, Tan, Red	Mcr Safety	**K2358**
8.7 cal/sq cm	UltraSoft® (7 oz)	Zipper	Stand-Up	Khaki	Chicago Protective Apparel	**H5437**
8.9 cal/sq cm	Inherent Blend and Treated Cotton (5.5 oz)	Zipper	Lay-Flat	Gray, Navy	Mcr Safety	**K2357**
9 cal/sq cm	CoolTouch (7 oz)	Zipper	Lay-Flat	Khaki	Vf Imagewear	**G7300**
9.1 cal/sq cm	ComforTouch® (6 oz)	Zipper	Lay-Flat	Gray, Khaki, Navy, Blue	Vf Imagewear	**G7298**
10.8 cal/sq cm	Indura (9 oz)	Zipper	Stand-Up	Orange	Chicago Protective Apparel	**H5435**
10.8 cal/sq cm	Indura (9 oz)	Zipper	Stand-Up	Navy	Chicago Protective Apparel	**H5434**
11 cal/sq cm	Excel FR® (9 oz)	Zipper	Lay-Flat	Navy	Vf Imagewear	**J6374**
11 cal/sq cm	Excel FR® (9 oz)	Snap	Lay-Flat	Green	Vf Imagewear	**J6374**
11 cal/sq cm	Excel FR® (9 oz)	Zipper	Lay-Flat	Khaki, Blue, Navy, Orange	Vf Imagewear	**J6370**
11 cal/sq cm	Excel FR® (9 oz)	Zipper	Stand-Up	Gray, Red	Vf Imagewear	**J6363**
11 cal/sq cm	CoolTouch (7 oz)	Zipper	Lay-Flat	Navy	Vf Imagewear	**G7300**
11 cal/sq cm	Excel FR® (9 oz)	Zipper	Lay-Flat	Blue, Orange, Khaki, Navy	Vf Imagewear	**D1685**
12 cal/sq cm	Nomex® (9 oz)	Hook-and-Loop	Stand-Up	Gray/Red	Honeywell Salisbury	**K2582**
12 cal/sq cm	ComforTouch® (9 oz)	Zipper	Mandarin	Navy	Vf Imagewear	**J6378**
12.4 cal/sq cm	UltraSoft® (9 oz)	Zipper	Stand-Up	Navy	Chicago Protective Apparel	**H5436**
20 cal/sq cm	Nomex® (13 oz)	Hook-and-Loop	Stand-Up	Gray/Red	Honeywell Salisbury	**K2583**
Category 3						
36 cal/sq cm	ComforTouch® (14 oz)	Zipper	Stand-Up	Navy	Vf Imagewear	**J6379**

SALISBURY by Honeywell | TINGLEY | ARIAT | VF Imagewear, Inc. | NATIONAL SAFETY APPAREL

Arc Flash & Flame Resistant Overalls

- Meet NFPA 70E standards
- Available in waist sizes from 31" to 56" and inseam sizes from 30" to 36" at Grainger.com

Made from self-extinguishing materials to protect workers from burns. Overalls are sleeveless garments that cover the front torso and legs and can be layered with a shirt or jacket to adjust for warmer or cooler working conditions.

ATPV Rating	Material (Wt.)	▶CHOOSE: Color	Brand	Item No.
Category 2				
8 cal/sq cm	Cotton/Nylon (7 oz)	Gray	Honeywell Salisbury	**K2593**
12 cal/sq cm	Cotton/Nylon (9 oz)	Gray	Honeywell Salisbury	**K2587**
14 cal/sq cm	PVC on Nomex® (11.3 oz)	Blue	Tingley	**K3903**
15 cal/sq cm	Canvas (12.5 oz)	Gray	Ariat	**K3887**
15 cal/sq cm	Canvas (12.5 oz)	Navy	Ariat	**K3888**
16 cal/sq cm	ComforTouch® (11 oz)	Navy, Brown	Vf Imagewear	**D1716**
20 cal/sq cm	Cotton/Nylon (13 oz)	Gray	Honeywell Salisbury	**K2591**
Category 3				
36 cal/sq cm	ComforTouch® (7 oz)	Gray, Navy	Vf Imagewear	**K1942**
36 cal/sq cm	ComforTouch® (7 oz)	Navy	Vf Imagewear	**J6360**
Category 4				
40 cal/sq cm	UltraSoft® (9 oz)	Navy	National Safety Apparel	**K3901**
40 cal/sq cm	GlenGuard® (20 oz)	Gray	Honeywell Salisbury	**K2588**
40 cal/sq cm	GlenGuard® (11 oz)	Gray	Honeywell Salisbury	**K2589**
40 cal/sq cm	RevoLite™ (11.2 oz)	Olive	National Safety Apparel	**K3902**
47 cal/sq cm	ComforTouch® (11 oz)	Brown	Vf Imagewear	**G7279**
47 cal/sq cm	ComforTouch® (11 oz)	Brown	Vf Imagewear	**K1941**
54 cal/sq cm	Canvas (11 oz)	Tan	Ariat	**K3889**
54 cal/sq cm	Canvas (11 oz)	Navy	Ariat	**K3890**
75 cal/sq cm	GlenGuard® (29 oz)	Gray	Honeywell Salisbury	**K2592**
100 cal/sq cm	GlenGuard® (22.9 oz)	Gray	Honeywell Salisbury	**K2590**

D1716

K2588

VF Imagewear, Inc. | ARIAT | SALISBURY by Honeywell | MCR SAFETY

Arc Flash & Flame-Resistant Pants & Jeans

- Meet NFPA 70E standards
- Available in waist sizes from 28" to 48" and inseam sizes from 30" to 36" at Grainger.com

Made from self-extinguishing materials to protect the legs from burns.

Work pants have a professional appearance and can be worn as part of a uniform.

Jeans are casual, comfortable, and durable for any working environment.

ATPV Rating	Material	Leg Fit	Includes Cargo Pocket	▶CHOOSE: Color	Brand	Item No.
Category 1						
Work Pant - Classic Fit						
5.2 cal/sq cm	Nomex® (6 oz)	Straight Leg	No	Navy	Vf Imagewear	**D1308**
Category 2						
Jeans - Straight Fit						
18 cal/sq cm	Excel FR® (12.5 oz)	Straight Leg	No	Blue	Vf Imagewear	**K3896**
20 cal/sq cm	Denim (13 oz)	Straight Leg	No	Blue	Ariat	**K3897**
Jeans - Relaxed Fit						
14 cal/sq cm	Denim (11 oz)	Boot Cut	No	Blue	Ariat	**K4807**
18 cal/sq cm	Excel FR® (12.5 oz)	Straight Leg	No	Blue	Vf Imagewear	**G7285**
20 cal/sq cm	Denim (13 oz)	Boot Cut	No	Blue	Ariat	**K4808**
20 cal/sq cm	Denim (13 oz)	Boot Cut	Yes	Blue	Ariat	**K4809**
Jeans - Loose Fit						
20 cal/sq cm	Denim (13 oz)	Straight Leg	No	Blue	Ariat	**K4810**
21 cal/sq cm	Excel FR® (14.75 oz)	Boot Cut	No	Blue	Vf Imagewear	**D9266**
21 cal/sq cm	Excel FR® (14.75 oz)	Boot Cut	No	Blue	Vf Imagewear	**G7277**
Jeans - Classic Fit						
13 cal/sq cm	Spandex (10.5 oz)	Straight Leg		Blue	Mcr Safety	**K4811**
21 cal/sq cm	Excel FR® (14.75 oz)	Straight Leg	No	Blue	Vf Imagewear	**D1312**
21 cal/sq cm	Excel FR® (14.75 oz)	Straight Leg	No	Blue	Vf Imagewear	**D9262**
Work Pant - Relaxed Fit						
10 cal/sq cm	Denim (6.1 oz)	Boot Cut	Yes	Gray	Ariat	**K4812**
10 cal/sq cm	Denim (6.1 oz)	Boot Cut	Yes	Navy	Ariat	**K4813**
11 cal/sq cm	Excel FR® (9 oz)	Straight Leg	No	Navy	Vf Imagewear	**26CC83**
12.7 cal/sq cm	Denim (11 oz)	Boot Cut	Yes	Charcoal	Ariat	**K4814**
12.7 cal/sq cm	Denim (11 oz)	Boot Cut	Yes	Navy	Ariat	**K4815**
12.7 cal/sq cm	Denim (11 oz)	Boot Cut	Yes	Tan	Ariat	**K4816**
Work Pant - Over Pant						
8 cal/sq cm	Cotton/Nylon (7 oz/sq yd)	Boot Cut	No	Gray	Honeywell Salisbury	**K2594**
12 cal/sq cm	Cotton/Nylon (9 oz/sq yd)	Boot Cut	No	Gray	Honeywell Salisbury	**K2595**
Work Pant - Classic Fit						
8.6 cal/sq cm	(7 oz)	Straight Leg	Yes	Navy Blue	Mcr Safety	**K4817**
8.6 cal/sq cm	(7 oz)	Straight Leg	Yes	Tan	Mcr Safety	**K4818**
11 cal/sq cm	Excel FR® (9 oz)	Straight Leg	No	Charcoal, Khaki, Navy	Vf Imagewear	**D1309**
11 cal/sq cm	CoolTouch 2 (7 oz)	Straight Leg	Yes	Navy	Vf Imagewear	**G7287**
12 cal/sq cm	ComforTouch® (9 oz)	Straight Leg	No	Navy	Vf Imagewear	**E6999**
12 cal/sq cm	Excel FR® (9 oz)	Straight Leg	No	Navy	Vf Imagewear	**E6999**
16 cal/sq cm	ComforTouch® (11 oz)	Straight Leg	No	Brown, Navy	Vf Imagewear	**G7289**

D1308

D1312

K4818

Dielectric Overshoes and Overboots

SALISBURY by Honeywell

- Meet ASTM F1117 and ASTM F1116 standards

100% waterproof rubber. Feature pole climbing reinforcement patch and nonskid bar tread outsole. Overboots are 14"H, full cut, and have an attached nonmetallic buckle.

Note: Men's sizes are shown unless specified.

Description	▶CHOOSE: Size	Item No.
Overshoes - Ankle Height	9, 10, 11, 12, 13, 14	**D0707**
Overboots- Knee Height		**D0708**

Ankle D0707

Knee D0708

K4958

D1295

Arc Flash & Flame-Resistant Collared Shirts

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

Made from self-extinguishing materials to protect the arms and torso from burns. Collared shirts cover the neck, have long sleeves, and offer a professional appearance.

ATPV Rating	Material (Wt.)	Closure Type	▶CHOOSE: Color	Brand	Item No.
Category 1					
4.4 cal/sq cm	Nomex® (4.5 oz)	Buttons	Tan, Blue	Vf Imagewear	**D1703**
4.4 cal/sq cm	Nomex® (4.5 oz)	Snaps	Tan	Vf Imagewear	**K4957**
7.7 cal/sq cm	Excel FR® (7 oz)	Buttons	Blue, Tan, Gray	Vf Imagewear	**G7306**
7.7 cal/sq cm	40% Aramid (7 oz)	Snaps	Lime/Black	Vf Imagewear	**J2899**
7.7 cal/sq cm	Excel FR® (7 oz)	Snaps	Tan	Vf Imagewear	**K4958**
7.7 cal/sq cm	Excel FR® (7 oz)	Snaps	Blue	Vf Imagewear	**K4959**
Category 2					
8.6 cal/sq cm	ComforTouch® (7 oz)	Buttons	Tan, Blue	Vf Imagewear	**D1295**
8.6 cal/sq cm	ComforTouch® (7 oz)	Buttons	Tan	Vf Imagewear	**G7308**
8.6 cal/sq cm	ComforTouch® (7 oz)	Buttons	Lime/Black	Vf Imagewear	**J6794**
8.6 cal/sq cm	ComforTouch® (7 oz)	Buttons	Gray, Tan, Blue	Vf Imagewear	**K1945**
8.6 cal/sq cm	12% Nylon (7 oz)	Flaps and Buttons	Lime/Black, Khaki, Blue, Navy	Carhartt	**E6404**
8.7 cal/sq cm	Excel FR® (7 oz)	Buttons	Gray, Blue	Mcr Safety	**K2361**
8.7 cal/sq cm	12% Nylon (7 oz)	Buttons	Navy, Royal Blue	Big Bill	**H5833**
8.9 cal/sq cm	Inherent Blend and Treated Cotton (5.5 oz)	Buttons	Gray, Blue, Tan	Mcr Safety	**K2360**
8.9 cal/sq cm	12% Aramid (6.5 oz), 40% Modacrylic (6.5 oz)	Buttons	Yellow	Big Bill	**H5832**
9 cal/sq cm	CoolTouch 2 (7 oz)	Buttons	Lime	Vf Imagewear	**D9268**
9 cal/sq cm	CoolTouch 2 (7 oz)	Buttons	Tan, Blue	Vf Imagewear	**E6994**
9.1 cal/sq cm	ComforTouch® (6 oz)	Buttons	Tan, Blue	Vf Imagewear	**G7302**

D1051

H3392

Arc Flash & Flame-Resistant T-Shirts

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

T-shirts have a casual appearance and are generally cooler with a looser fit than collared shirts. Can be layered under other protective garments.

ATPV Rating	Material (Wt.)	▶CHOOSE: Color	Brand	Item No.
Category 1				
Short Sleeve				
4 cal/sq cm	Modacrylic (5.5 oz)	Blue	National Safety Apparel	**H3392**
Long Sleeve				
4 cal/sq cm	Modacrylic (5.5 oz)	Blue	National Safety Apparel	**H3393**
Category 2				
Short Sleeve				
8.2 cal/sq cm	Excel FR® (5.3 oz)	Black, Blue, Gray	Vf Imagewear	**J2395**
Long Sleeve				
8.2 cal/sq cm	Excel FR® (5.3 oz)	Black, Blue, Gray, Red	Vf Imagewear	**J2396**
8.3 cal/sq cm	CoolTouch 2 (6.7 oz)	Lime	Vf Imagewear	**J7546**
8.7 cal/sq cm	Cotton (6 oz)	Gray, Navy, Tan	Ariat	**K3898**
8.9 cal/sq cm	Cotton (6.75 oz)	Gray, Maroon, Red, Navy	Ariat	**K3892**
10.6 cal/sq cm	(6.5 oz)	Gray, Navy Blue, Tan	Mcr Safety	**K3893**
12 cal/sq cm	Excel FR® (6.25 oz)	Gray, Tan, Blue	National Safety Apparel	**D1051**

Henley

Zipper Front Polo

Turtleneck

Arc Flash & Flame-Resistant Henley, Polo & Turtleneck Shirts

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

Henleys are collarless shirts that have buttons at the front neckline allowing workers to adjust shirt opening, making them cooler and more comfortable.

Polos are collared shirts that have a front zipper to allow workers to adjust shirt opening.

Turtlenecks have a high, tight-fitting neck to keep workers warm. Can be used for layering under other garments.

ATPV Rating	Material (Wt.)	▶CHOOSE: Color	Brand	Item No.
Category 2				
Henley				
8.2 cal/sq cm	Excel FR® (5.3 oz)	Black, Blue, Gray, Red, Tan	Vf Imagewear	**J2394**
8.9 cal/sq cm	Excel FR® (7 oz)	Blue, Orange	Vf Imagewear	**D1302**
8.9 cal/sq cm	Excel FR® (7 oz)	Orange	Vf Imagewear	**D1303**
8.9 cal/sq cm	Cotton (6.75 oz)	Gray, Navy	Ariat	**K3894**
9.6 cal/sq cm	Max Comfort(TM) (7 oz)	Gray, Navy	Mcr Safety	**K3895**
12 cal/sq cm	Excel FR® (6.25 oz)	Blue, Tan	National Safety Apparel	**D1053**
Polo				
8.2 cal/sq cm	Excel FR® (5.3 oz)	Gray, Black, Blue, Red	Vf Imagewear	**J2393**
Turtleneck				
8.9 cal/sq cm	Excel FR® (7 oz)	Blue	Vf Imagewear	**D9247**

D1316

G7271

K2554

SALISBURY by Honeywell · VF Imagewear, Inc. · ARIAT · NATIONAL SAFETY APPAREL

Arc Flash & Flame-Resistant Jackets & Coats

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

Help protect workers from burn injuries in areas with sparks, open flame, and other potential fire hazards. Typically worn over base layer arc flash and flame-resistant garments to keep workers warm in cold conditions.

ATPV Rating	Material (Wt.)	Closure Type	Total No. of Pockets	▶CHOOSE: Color	Brand	Item No.
Category 2						
8 cal/sq cm	Cotton/Nylon (7 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2556**
10.6 cal/sq cm	Excel FR (9 oz)	Zipper	3	Blue	Vf Imagewear	**G7273**
12 cal/sq cm	Cotton/Nylon (9 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2557**
12.6 cal/sq cm	Nomex IIIA (3.25 oz)	Zipper	3	Blue	Vf Imagewear	**D1316**
20 cal/sq cm	Cotton/Nylon (13 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2558**
Category 3						
34 cal/sq cm	ComforTouch (7 oz)	Snaps, Zipper	5	Blue	Vf Imagewear	**D1325**
35 cal/sq cm	ComforTouch (11 oz)	Snaps	3	Brown	Vf Imagewear	**G7271**
35 cal/sq cm	ComforTouch (11 oz)	Snaps	3	Brown	Vf Imagewear	**G7272**
35.4 cal/sq cm	Cotton (13 oz)	Zipper	3	Black	Ariat	**K4819**
44.1 cal/sq cm	Nomex IIIA (4.5 oz)	Snaps	3	Blue	Vf Imagewear	**D1318**
Category 4						
40 cal/sq cm	UltraSoft/GlenGuard (11 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2554**
40 cal/sq cm	UltraSoft/GlenGuard (11 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2555**
40 cal/sq cm	UltraSoft (9 oz)	Hook-and-Loop	0	Blue	National Safety Apparel	**K4820**
40 cal/sq cm	RevoLite (11 oz)	Hook-and-Loop	0	Green	National Safety Apparel	**K4821**
44 cal/sq cm	ComforTouch (11 oz)	Zipper	3	Brown	Vf Imagewear	**D1319**
44 cal/sq cm	DuraStretch (9.5 oz)	Zipper	3	Gray, Navy	Ariat	**K4822**
52 cal/sq cm	Excel FR (6 oz)	Zipper	3	Blue	Vf Imagewear	**H9253**
52 cal/sq cm	Polyester (8 oz)	Zipper	4	Black	Ariat	**K4823**
54 cal/sq cm	Canvas (12 oz)	Zipper	4	Tan, Navy	Ariat	**K4824**
75 cal/sq cm	UltraSoft/GlenGuard (29 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2559**
100 cal/sq cm	UltraSoft/GlenGuard (22.9 oz)	Zipper	0	Gray/Red	Honeywell Salisbury	**K2553**

H3394

H3395

K4827

VF Imagewear, Inc. · ARIAT · NATIONAL SAFETY APPAREL

Arc Flash & Flame-Resistant Sweatshirts & Hoodies

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

Keep workers warm and provide protection against arcing energy. Hoods help keep the head and ears warm and protected from wind.

ATPV Rating	Material Trade Name	Sweatshirt Type	▶CHOOSE: Color	Brand	Item No.
Category 2					
20 cal/sq cm	Nomex	Zip-Up	Navy	Vf Imagewear	**K4825**
21.2 cal/sq cm	DuraStretch	Zip-Up	Black, Navy	Ariat	**K4826**
22 cal/sq cm	UltraSoft	Pullover	Blue	National Safety Apparel	**H3394**
22 cal/sq cm	UltraSoft	Zip-Up	Blue	National Safety Apparel	**H3395**
22 cal/sq cm	Cotton	Pullover	Gray	Ariat	**K4827**
22 cal/sq cm	Cotton	Pullover	Navy	Ariat	**K4828**
22 cal/sq cm	Cotton	Quarter Zip	Black, Navy	Ariat	**K4829**
22 cal/sq cm	Cotton	Quarter Zip	Gray	Ariat	**K4830**
Category 3					
28 cal/sq cm	DuraStretch	Pullover	Black, Navy	Ariat	**K4831**
35 cal/sq cm	CoolTouch 2	Zip-Up	Lime	Vf Imagewear	**J6393**

VF Imagewear, Inc. · WorkriteFR

Arc Flash & Flame-Resistant Lab Coats

J0287

- Meet NFPA 70E standards
- Available in Men's and Women's sizes from S to 4XL at Grainger.com

Wear over personal clothing for protection from burns and arc flash when working with flammable and combustible chemicals. **Chemical splash resistant coats** are suited for use in hazardous material cleanup and chemical manufacturing. **J0288** and **J6788** are Women's coats.

ATPV Rating	Material (Wt.)	Closure Type	Total No. of Pockets	Color	Brand	Item No.
Category 1						
4.4 cal/sq cm	Nomex IIIA (4.5 oz)	Snaps	3	Blue	Vf Imagewear	**J0288**
4.4 cal/sq cm	Nomex IIIA (4.5 oz)	Snaps	4	Blue	Vf Imagewear	**J0287**
5.6 cal/sq cm	Nomex IIIA (6 oz)	Buttons	4	Blue	Vf Imagewear	**26CF62**
7.7 cal/sq cm	Excel FR (7 oz)	Buttons	3	Blue	Vf Imagewear	**D1306**
Chemical Splash Resistant						
5.6 cal/sq cm	Nomex IIIA (4.5 oz)	Snaps	3	Blue	Workrite Fr	**J5330**
5.6 cal/sq cm	Nomex IIIA (4.5 oz)	Snaps	3	Blue	Workrite Fr	**J6788**

Scan. Order. Done.
Details on page A1.

Arc Flash & Flame-Resistant Headwear

- Meet NFPA 70E standards

Provide protection for the head and neck from burns that can occur when working near electrical hazards.

Balaclavas provide 360° coverage around the head and neck and cover gaps around the collar. Usually worn under headwear and in conjunction with eye and face protection.

Balaclava 41H940

Balaclava 2NNJ8

Beanie 4FEZ9

Knit Hat 4FEZ8

Liner fits close to the head and can be worn under a hard hat to protect the head, ears, and neck while leaving the face uncovered.

Beanies and Knit hats absorb sweat and keep the head and ears warm.

ATPV Rating	Material	Color	Brand	Item No.
Category 1				
Balaclava				
4 cal/sq cm	FR Control 2.0 (5.5 oz)	Navy	National Safety Apparel	41H940
Category 2				
8.9 cal/sq cm	TrueComfort® (5.5 oz), Westex® (5.5 oz)	Blue	Mcr Safety	781GU6
10 cal/sq cm	Nomex®/Lenzing™ FR (8 oz)	White	Honeywell Salisbury	5EU42
12 cal/sq cm	UltraSoft® (6.5 oz)	Navy	National Safety Apparel	2NNJ8
12 cal/sq cm	Nomex® (8 oz)	Blue	Honeywell Salisbury	52VR34
15 cal/sq cm	Polartec® (9 oz)	Black	Ariat	61RN10
15 cal/sq cm	Polartec® (9 oz)	Gray	Ariat	61RN12
20 cal/sq cm	P84®/Lenzing™ FR (8 oz)	Beige	Honeywell Salisbury	5EU44
Beanie				
15 cal/sq cm	Polartec® (9 oz)	Black	Ariat	61RN11
24 cal/sq cm	Nomex® (8.5 oz)	Navy	National Safety Apparel	4FEZ9
Liner				
24 cal/sq cm	Nomex® IIIA (8.5 oz)	Blue	National Safety Apparel	4FFA1
Category 3				
Balaclava				
25 cal/sq cm	UltraSoft® (10.5 oz)	Navy	National Safety Apparel	41H944
30 cal/sq cm	OPF Blend	Black	National Safety Apparel	2YRJ1
32 cal/sq cm	CarbonX®	Black	Chicago Protective Apparel	32XU84
32 cal/sq cm	CarbonX® (7 oz)	Black	Mcr Safety	781GU5
Knit Cap				
35 cal/sq cm	Nomex® (10 oz)	Black	National Safety Apparel	4FEZ8
Category 4				
Balaclava				
53 cal/sq cm	OPF Blend (7 oz)	Black	National Safety Apparel	4FPE7

458P08

458P09

60UN47

Arc Flash & Flame-Resistant Faceshields

- Meet NFPA 70E standards

Protect worker's head and face from burns while providing clear visibility to work area and surroundings.

Faceshields surround the face and extend slightly under the chin. 458P09 and 458P11 have a transparent chin.

Head Protection Kits include hard hats with an integrated visor to protect workers from arc flash and impacts to the head. The visor flips up to provide unobstructed vision when protection is not required.

ATPV Rating	For Use With	Visor Material	Brand	Item No.
Category 2				
Faceshield				
10.8 cal/sq cm	Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	60HR87
10.8 cal/sq cm	Front Brim Hard Hats	Polycarbonate	Honeywell Salisbury	60HR86
10.8 cal/sq cm	Front Brim Hard Hats, Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	60HR88
12 cal/sq cm	Front Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P08
12 cal/sq cm	Front Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P09
12 cal/sq cm	Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P10
12 cal/sq cm	Front Brim Hard Hats, Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P11
12 cal/sq cm	Front Brim Hard Hats, Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P12
20 cal/sq cm	Front Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P13
20 cal/sq cm	Front Brim Hard Hats, Full Brim Hard Hats	Polycarbonate	Honeywell Salisbury	458P14
Faceshield with Slotted Adapter				
20 cal/sq cm	Front Brim Hard Hats, Full Brim Hard Hats	Polycarbonate	National Safety Apparel	60UN45
Head Protection Kit				
12 cal/sq cm	—	Plastic	National Safety Apparel	60UN47
20 cal/sq cm	—	Plastic	National Safety Apparel	60UN48

Item	ATPV Rating	Visor Color	Compatible with Mfr. Model No.	Brand	Item No.
Replacement Parts					
Faceshield Visor - Polycarbonate	12 cal/sq cm	Green	AS1200, AS1200FB, AS1200HAT, AS1200HATCLR	Honeywell Salisbury	5YGK4
	20 cal/sq cm	Bronze	AS2000 20 Cal	Honeywell Salisbury	458P20
	20 cal/sq cm	Bronze	AS2000FB-CLR-SPL, AS2000FB-SPL	Honeywell Salisbury	458P21
Replacement Bracket	—	—	AS1000, AS1000HAT	Honeywell Salisbury	54EN98

Ventilated 56PG52

Lift Front 54YR32

Standard 54YR52

Arc Flash & Flame-Resistant Hoods

- Meet NFPA 70E standards

Protect worker's head, face, and neck from burns that can occur when working near electrical hazards. Hoods provide 360° protection and have a built-in faceshield.

Lift Front hoods have a faceshield that can be tilted up so workers don't have to remove the entire hood. 56PH78 and 56PG65 include a flashlight kit.

Standard hoods cover the head and face with a transparent faceshield for clear visibility.

Ventilated hoods have an integrated system that provides airflow to reduce heat stress.

ATPV Rating	Material	Color	Brand	Item No.
Category 2				
Lift Front				
20 cal/sq cm	UltraSoft® (13 oz)	Gray/Red	Honeywell Salisbury	56PH77
20 cal/sq cm	UltraSoft® (13 oz)	Gray/Red	Honeywell Salisbury	56PH78
Standard				
8 cal/sq cm	UltraSoft® (7 oz)	Gray/Red	Honeywell Salisbury	56PG51
12 cal/sq cm	UltraSoft® (9 oz)	Gray/Red	Honeywell Salisbury	56PG53
20 cal/sq cm	UltraSoft® (13 oz)	Gray/Red	Honeywell Salisbury	56PG55
Ventilated				
8 cal/sq cm	UltraSoft® (7 oz)	Gray/Red	Honeywell Salisbury	56PG52
12 cal/sq cm	UltraSoft® (9 oz)	Gray/Red	Honeywell Salisbury	56PG54
20 cal/sq cm	UltraSoft® (13 oz)	Gray/Red	Honeywell Salisbury	56PG56
Category 4				
Lift Front				
40 cal/sq cm	UltraSoft® (9 oz)	Navy	National Safety Apparel	54YR32
40 cal/sq cm	RevoLite™ (11.2 oz)	Green	National Safety Apparel	54YR53
40 cal/sq cm	GlenGuard® (11 oz)	Gray/Red	Honeywell Salisbury	56PG64
40 cal/sq cm	GlenGuard® (11 oz)	Gray/Red	Honeywell Salisbury	56PG65
40 cal/sq cm	GlenGuard® (20 oz)	Gray/Red	Honeywell Salisbury	56PG63
Standard				
40 cal/sq cm	UltraSoft® (9 oz)	Navy	National Safety Apparel	54YR30
40 cal/sq cm	RevoLite™ (11.2 oz)	Green	National Safety Apparel	54YR52
40 cal/sq cm	GlenGuard® (11 oz)	Gray/Red	Honeywell Salisbury	56PG59
40 cal/sq cm	GlenGuard® (20 oz)	Gray/Red	Honeywell Salisbury	56PG57
100 cal/sq cm	GlenGuard® (22.9 oz)	Gray/Red	Honeywell Salisbury	56PG61
Ventilated				
40 cal/sq cm	UltraSoft® (9 oz)	Navy	National Safety Apparel	54YR31
40 cal/sq cm	RevoLite™ (11.2 oz)	Green	National Safety Apparel	54YR51
40 cal/sq cm	GlenGuard® (11 oz)	Gray/Red	Honeywell Salisbury	56PG60
40 cal/sq cm	GlenGuard® (20 oz)	Gray/Red	Honeywell Salisbury	56PG58
100 cal/sq cm	GlenGuard® (22.9 oz)	Gray/Red	Honeywell Salisbury	56PG62

Rubber Gloves
D1025

Glove Kit
D1028

Cowhide
Leather
Protectors
D1035

SALISBURY by Honeywell
Ansell
Condor

Electrical Insulating Gloves

- Meet ASTM D120 specifications and NFPA 70E standards
- Available in glove sizes from 7 to 12 at Grainger.com

Rubber Insulating Gloves are made of dielectric natural rubber to protect workers when working near electrical hazards, Voltage Class is the maximum use voltage for the glove. Type I gloves are not ozone-resistant. Type II gloves are ozone- and UV-resistant. Workers should use a voltage Class and Type rating that meets their worksite requirements. See Grainger.com for detailed information on Voltage Class and Type.

Leather Protectors are worn over rubber gloves to protect from pinpricks, tears, and abrasion. They do not provide protection against electrical shock when worn alone.

Glove Kits include a pair of electrical-insulating rubber gloves and a pair of leather protector gloves. Also include glove bag where noted.

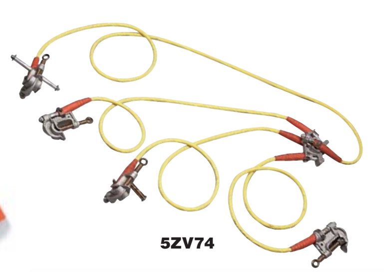
▶CHOOSE: Color	Length	Brand	Item No.
Rubber Insulating Gloves			
Class 0 - Type I			
Red, Black	11 in	Salisbury	**D1025**
Yellow, Black, Red	11 in	Ansell Marigold	**H5858**
Yellow	14 in	Salisbury	**J3400**
Black	14 in	Salisbury	**J3398**
Class 0 - Type II			
Blue	11 in	Salisbury	**D1026**
Orange	14 in	Salisbury	**J3400**
Class 00 - Type I			
Black, Red	11 in	Salisbury	**D1023**
Yellow, Black, Red	11 in	Ansell Marigold	**H5859**
Yellow	14 in	Ansell Marigold	**H5861**
Black	14 in	Salisbury	**J3391**
Class 00 - Type II			
Blue	11 in	Salisbury	**D1024**
Orange	11 in	Salisbury	**J3390**
Blue, Orange	14 in	Salisbury	**J3391**
Class 1 - Type I			
Black	14 in	Salisbury	**D1032**
Black	14 in	Salisbury	**J3407**
Black	16 in	Salisbury	**J3413**
Black	16 in	Ansell Marigold	**J5479**
Black	18 in	Salisbury	**J3416**
Class 1 - Type II			
Black	14 in	Salisbury	**J3402**
Black	16 in	Salisbury	**J3408**
Class 2 - Type I			
Black	14 in	Ansell Marigold	**H5866**
Yellow	14 in	Ansell Marigold	**H5868**
Yellow	16 in	Ansell Marigold	**H5869**

▶CHOOSE: Color	Length	Brand	Item No.
Glove Kits			
Class 0 - Type I			
Red	14 in	Salisbury	**J3451**
Yellow	14 in	Salisbury	**J3452**
Class 0 - Type II			
Black, Red	11 in	Salisbury	**D1029** *
Blue	11 in	Salisbury	**D1031** *
Black	14 in	Salisbury	**J3449**
Blue	14 in	Salisbury	**J3450** *
Class 00 - Type I			
Red, Black	11 in	Salisbury	**D1027** *
Yellow	11 in	Salisbury	**J3443** *
Black	14 in	Salisbury	**J3444**
Red	14 in	Salisbury	**E4072** *
Class 00 - Type II			
Blue	11 in	Salisbury	**D1028** *
Blue	14 in	Salisbury	**J3444**
Class 2 - Type I			
Black/Red	14 in	Salisbury	**E4077**
Black	16 in	Salisbury	**J3456**
Black	18 in	Salisbury	**J3459**

**** Include glove bag.***

Color	Cuff Style	Length	Brand	Item No.
Leather Protectors, Cowhide				
Class 0, Class 00				
White	Shirred Slip-On	10 in	Condor	**D1035**
Class 2				
Cream	Gauntlet	10 in	Salisbury	**H0347**
Cream	Shirred Slip-On	10 in	Salisbury	**H0346**
Yellow	Gauntlet	10 in	Salisbury	**H0358**
Beige/Orange/Green	Gauntlet	12 in	Condor	**D1037**
Class 4				
Beige/Orange	Gauntlet	15 in	Condor	**D1039**
Leather Protectors, Goatskin				
Class 0, Class 00				
White	Shirred Slip-On	10 in	Condor	**D1036**
White	Cinch	10 in	Condor	**E4079**
Gray	Shirred Slip-On	10 in	Ansell Marigold	**H5856**
Class 2				
Cream	Gauntlet	10 in	Salisbury	**H0364**
Cream	Shirred Slip-On	10 in	Salisbury	**H8306**
White/Orange/Green	Gauntlet	12 in	Condor	**D1038**

5ZV86



5ZV74

3GY63

SALISBURY by Honeywell

Arc Flash Protection Equipment

Enclose or insulate against electrical hazards to help prevent exposure to electric arcs and reduce the risk of injuries to workers.

Arc Protection Blankets provide barrier protection from exposure to explosive electrical arcs and flashes.

Shock Protection Blankets cover energized components to protect workers from electrical hazards and provide a protective barrier on electrical equipment located in cubicles, switchboards, and substations.

Grounding Sets protect workers from electrical shocks and prevent damage to equipment.

Electrical Sticks and Rescue Hooks protect workers from electrical charges when checking energized equipment and responding to emergency situations. Hot switch sticks can be used to help check transmission lines, power distribution equipment, down power lines, fuses, and load break connectors. Rescue hooks help withdraw injured workers out of a hazardous area.

Insulating Line Hoses cover high-voltage lines to prevent against accidental contact with live wires. Type II ozone- and UV-resistant rubber maintains flexibility in cold weather.

Description	Color	Std.	Mfr. Model	Item No.
Arc Protection Blankets				
48" x 60", 15kA	Navy Blue	ASTM F2676	ARC45-15PS	**5YGL0**
48" x 60", 40kA	Gray/Khaki	ASTM F2676	ARC45-40PS	**5YGL1**
48 "x 96", 15kA	Navy Blue	ASTM F2676	ARC48-15PS	**5YGL2**
48" x 96", 40kA	Gray/Khaki	ASTM F2676	ARC48-40PS	**5YGL3**
Shock Protection Blankets				
Roll, 3 x 30 ft., Class 00, 500V	Brown	ASTM F2320	RLB00	**3KWU9**
Roll, 3 x 30 ft., Class 0, 1000V	Yellow	ASTM F2320	RLB0	**3GY62**
Roll, 3 x 30 ft., Class 1, 7500V	Clear	ASTM F1742	RLBPVC1	**5EU29**
Roll, 3 x 30 ft., Class 1, 7500V	Orange	ASTM F2320	RLB1	**3KWX2**
Low-Voltage, 1 x 3 ft., Class 0, 1000V	Maroon	ASTM D1048	123LV	**3KUX7**
Low-Voltage, 1½ x 3 ft., Class 0, 1000V	Yellow	ASTM D 1048	1836YLV	**5ZV63**
Low-Voltage, 3 x 3 ft., Class 0, 1000V	Yellow	ASTM D 1048	3636YLV	**5ZV80**
Eyelet Style, 36" x 36", Class 4, 36kV	Orange	ASTM D 1048	900E	**5ZV86**
Slotted Style, 22" x 22", Class 4, 36kV	Orange	ASTM D 1048	15	**5ZV65**
Slotted Style, 36" x 36", Class 4, 36kV	Orange	ASTM D 1048	1300	**5ZV64**
Blanket Canister 5" x 37", Holds 1 to 2 Blankets	Orange	—	P2	**5ZW03**
Blanket Canister 6" x 37", Holds 1 to 3 Blankets	Orange	—	P3	**3KUX9**
Blanket Canister, 7" x 37", Holds 1 to 4 Blankets	Orange	—	P4	**5ZW05**
Blanket Clamp Pin, 9½" L	Yellow	—	21	**5ZV66**
Grounding Sets				
4-Way Set with (1) Four Way Connector w/ Sleeves, (4) 1½ in Serrated Jaw Clamps w/ Sleeves, (1) Double Hanger Stud, (1) Contact Stud,34 ft #2137 1/0 Cu. Cable, (4) pr. Ferrules	—	ASTM F 855	2680	**3KUY4**
4-Way Set with Socket Clamp, (3) 6 Ft, (1) 10 Ft 2/0 Cable	—	ASTM F 855	24307	**5ZV73**
4-Way Set with C Clamp, Input/Output 2/0 Yellow Cable, (3) 6 Ft, (1) 10 Ft	—	ASTM F 855	24308	**5ZV74**
Single Set with (2) C Clamp, 6 ft 2/0 Cable	—	ASTM F 855	24309	**5ZV75**
Single Set with 2" (2) C Clamp, Flat Jaw Clamp,6 ft 2/0 Cable	—	ASTM F 855	24310	**5ZV76**
Electrical Sticks and Rescue Hooks				
Hot Switch Stick, Std. Prong, 1¼" x 8 ft.	Yellow	ASTM F711	9935	**5ZV87**
Hot Switch Stick, Universal Head, Std. Prong, 1¼" x 8 ft.	Yellow	ASTM F711	4215	**5ZV83**
External Rod Clampstick, 6 ft. 8"L	Yellow	ASTM F711	4009	**5ZV81**
Static Discharge Stick	Yellow	ASTM F711	20817	**3GY63**
Rescue Hook, 6 ft.	Yellow	ASTM F711	24401	**3GY61**
Rescue Hook, 8 ft.	Yellow	ASTM F711	24403	**3KUX5**
Line Hoses				
4½ ft. L with 1½" Dia. Connector, Class 3, 26.5kV	Safety Orange	ASTM D 1050	OR150-45C	**5ZW01**
6 ft. L with 1½" Dia. Connector, Class 3, 26.5kV	Safety Orange	ASTM D 1050	OR150-6C	**5ZW02**

H0186

H0187

Disposable Secondary Flame-Retardant Coveralls

Zip-front coveralls help preserve and protect primary flame-resistant garments from nonhazardous particles and liquids. Won't ignite and contribute to burn injury. Blue color.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Collared Coveralls, Open Wrists and Ankles			
M, L, XL, 2XL	TM120S	**G7268**	25
3XL, 4XL, 5XL, 6XL	TM120S	**H0186**	25
Hooded Coveralls, Elastic Wrists and Ankles			
M, L, XL, 2XL	TM127S	**G7270**	25
3XL, 4XL, 5XL, 6XL, 7XL	TM127S	**H0188**	25
Hooded Coveralls, Elastic Wrists and Attached Socks			
M, L, XL, 2XL	TM122S	**G7269**	25
3XL, 4XL, 5XL, 6XL	TM122S	**H0187**	25

D1263

5T338

D1269

2YRL4

3GAF2

Heat-Reflective Aluminized Clothing

- Reflects up to 95% radiant heat

STEEL GRIP

5-ply Dual Mirror construction provides wear resistance, reflectivity, and resistance to molten metal splash. 15-oz. aluminized PFR Rayon (ARL) fabric is used for short-term exposure. 19-oz. aluminized Thermonol (ATH) is a Kevlar/fiberglass fabric for long-term contact.

Jackets

Feature laydown collar and semiraglan sleeves. Covered front snaps with wrist snap closure. Seams are serged and stitched with Kevlar.

Hoods and Replacement Faceshield

Include swing-open, clear 7" x 11" Lexan facepiece. Adjustable ratchet suspension.

Gloves

Kevlar® blend gloves have an aluminized back to reflect radiant heat and a wool lining for thermal protection and protect up to 900°F intermittent handling.

Bib Aprons

Adjustable web neck and waist straps attach with clip snap and D-ring fasteners. All edges are serged.

NSA

Aluminized Carbon Kevlar fabric provides excellent thermal insulation and maximum protection against molten metal splash, including molten iron and aluminum.

Coats

Feature front snap closures with back flap and underarm eyelets for ventilation. Split sleeve with snap closures.

Hood

Fitted hood allows hard hat use. Extended bib provides chest, back, and shoulder coverage. Adjustable leather shoulder straps fasten under armpits and secure the hood in place. Lens/faceshield clips on aluminum frame. Features a gold film that radiates heat.

Sleeves

Snap wrist closure and open top.

Gloves

Heat- and abrasion-resistant gloves with open-palm style and reversed wool lining for thermal protection.

Bib Apron

Adjustable leather straps on the neck and at the waist fasten with a buckle and snap to secure the apron in place.

Description	▶CHOOSE: Size	Item No.
Steel Grip		
15-oz. Aluminized PFR Rayon		
Jacket, 35" Length	L, XL, 2XL	**D1263**
Hood w/Ratchet Headgear	Universal	**5T326**
Bib Apron	24" x 39"	**5T338**
19-oz. Aluminized Thermonol		
Jacket, 35" Length	L, XL, 2XL	**D1265**
Hood w/Ratchet Headgear	Universal	**5T336**
Gloves, Pair	Universal	**5T328**
Bib Apron	24" x 39"	**5T339**
Accessories		
Replacement Faceshield for Hoods 5T326 and 5T336	Universal	**5T327**
Heat Cover Pad for Gloves 6AD64 and 5T328	Universal	**2AV46**

Description	▶CHOOSE: Size	Item No.
NSA		
19-oz. Aluminized Carbon Kevlar		
Coat, 30" Length	M, L, XL, 2XL	**D1267**
Coat, 45" Length	M, L, XL, 2XL	**D1269**
Hood	Universal	**2YRL4**
Sleeves, Pair	Universal	**2YRL3**
Gloves, Straight Thumb, Pair	Regular	**3PWH2**
Gloves, Winged Thumb, Pair	Universal	**3GAF2**
Bib Apron	Universal	**2YRK7**

STEINER

Flame-Resistant Clothing

Sleeve—Comfortable and washable, this flame-resistant sleeve helps protect your upper arm from sparks in light welding applications. Fits easily into welding glove cuffs and has an elastic top and wrist for a more comfortable fit. The anti-static Weldlite fabric is rot and mildew resistant, and it preserves its flame resistance for up to 50 home or 25 commercial washings. Sold by the pair.

- Meets ASTM D6413-13

Jacket—This cool, comfortable, and washable jacket offers protection from sparks in light welding applications. Relaxed fit helps provide all day comfort, and it has adjustable snap wrists and a large inside pocket. The anti-static Weldlite fabric is rot and mildew resistant, and it preserves its flame resistance for up to 50 home or 25 commercial washings. The leather-reinforced, black anodized snaps are non-reflective.

Color	▶CHOOSE: Size	Style No.	Item No.
Flame-Resistant Sleeve Cotton, 18 in L, 9 oz			
Green	Universal	1034-18EE	**38RL34**
Welding Jacket Cotton with Snapss			
Green	M, L, XL, 2XL, 3XL	1038	**E9417**

38RL34

E9417

Condor

Leather Welding Clothing

Made from Kevlar-sewn select cowhide. Steel rivet reinforcements are added to critical areas for increased wear.

JACKET

30" length provides full protection. Features underarm and back vents. Satin arm and shoulder lining for easy on/off.

APRONS

1-pc., split cowhide waist aprons provide long-lasting waist-to-knee protection.

BIB APRON

Provides chest-to-knee protection. Secured around the neck and waist with webbing and snap buckle.

DETACHABLE BIB

Extends to the waist. 1-pc. select cowhide bib attaches to cape sleeves (sold separately) with 4 snaps. Secured around the waist with belt and snap buckle.

BIB APRONS, SPLIT LEG

Premium cowhide aprons have 2 adjustable nylon straps per leg.

CHAPS

Adjustable-waist (20" to 50") leather chaps have snaps on each leg.

SLEEVES

Secure with snaps at wrist and bicep with an adjustable strap. Priced and sold per pair.

CAPE SLEEVES

Cover arms, shoulders, and upper torso.

WELDING CAP

100% cotton reversible cap with elastic sides and soft bill. Patterned on 1 side and a solid black color on the other side. Washable.

Description	Size	Item No.
Jacket	XL	**2AG83**
	L	**2AJ40**
	M	**2AZ36**
	2XL	**6AF88**
Aprons	24 in W x 18 in L	**4KXH1**
	24 in W x 24 in L	**4KXH2**
Bib Apron	24 in W x 36 in L	**5T179**
Detachable Bib	20 in W x 19 in L	**5AC71**
Bib Aprons, Split Leg	24 in W x 36 in L	**4KXH3**
	24 in W x 42 in L	**4KXH4**
	24 in W x 48 in L	**4KXH5**
Chaps	40 in Long	**4KXH6**
Sleeves	Universal	**5T180**
Cape Sleeves	L	**5T176**
	XL	**5T177**
Welding Cap	Universal	**1H158**

2AG83

4KXH1

5T179

4KXH3

5T180

4KXH6

5T176

1H158

Welding Jackets

- Meet ASTM D6413-10

9-oz. flame-retardant cotton jackets have leather-reinforced metal snaps and inside pocket. Pro-Series D2608 has an adjustable, stand-up mandarin collar and 2 pencil/scribe pockets. Weldlite Plus D2607, D9246 and K7358 have leather sleeves for added protection.

D2608

D9246

Description	▶CHOOSE: Size	Color	Mfr.	Item No.
Jacket	S, M, L, XL, 2XL, 3XL	Black	1160	**D2608**
Jacket with Leather Sleeves	S, M, L, XL, 2XL, 3XL	Green	1230	**D2607**
	S, M, L, XL, 2XL, 3XL, 4XL	Orange	1250	**D9246**
	M, L, XL, 2XL, 3XL	Navy	1260	**K7358**

TuffWeld Welding Jacket

8½-oz. aramid/rayon blend is lighter than FR cotton, provides superb wicking, and offers superior protection and flame resistance, even after repeated laundering. Features front snap closures, shirt-style collar, and inside breast pocket. 30"L.

▶CHOOSE: Size	Item No.
M, L, XL, 2XL	**D2373**

F0777

K7357

Leather Welding Jackets

- Cowhide leather
- Snap closures on front, collar, and wrist
- 30" length

Naturally abrasion and flame resistant for use in applications with heavy sparks and spatter. Lock stitched with flame-resistant Kevlar thread. Stand-up/roll-down collar snaps securely in place for additional neck protection. Adjustable waist cinch straps provide tapered fit. Inside pocket protects items from spatter.

1215
Made from premium side split leather for rugged, everyday wear.

8215
Made from side split leather for durability and long wear. Soapstone pocket on each sleeve.

9215
Unique Weld-Cool design features underarm ventilation and riveted open seam upper back to provide air circulation and cool comfort. Satin-lined shoulders and upper arms for easy on/off. Soapstone pocket on each sleeve.

E9173

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
1215		
M, L, XL	Brown	**F0777**
8215		
M, L, XL, 3XL, 4XL	Yellow, Brown	**K7357**
9215		
S, M, L, XL, 2XL	Brown	**E9173**

Flame-Retardant Cotton Welding Jacket

100% cotton jacket offers good spark protection in light welding applications; rot- and mildew-resistant Weldlite™ cotton maintains its flame resistance for up to 50 home washings or 25 commercial washings. Has a relaxed fit for comfortable all-day wear. With snap-front and adjustable snap wrist. Large inside pocket. 30"L.

K7359

Fabric Weight	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
9 oz	S, M, L, XL, 2XL, 3XL, 4XL	Green	**E9416**
	S, M, L, XL, 2XL, 3XL, 4XL	Orange	**K7359**
	S, M, L, XL, 2XL, 3XL, 4XL	Navy, Blue	**K7360**
	S, M, L, XL, 2XL, 3XL, 4XL	Green, Lime	**K7361**
	S, M, L, XL, 2XL, 3XL, 4XL	Black	**K7362**

K7364
Front

K7364
Back

Cotton Welding Jackets with Flame-Retardant Mesh Back

- 30" length

Constructed of Weldlite 100% cotton flame-retardant fabric. Provide protection for the shoulders, front torso, and arms with a flame-retardant open polyester mesh back for ventilation to keep wearer cool and comfortable. Snap front and adjustable snap wrists with large inside pocket to protect items from sparks. Offer good spark protection for light welding applications.

Fabric Weight	▶CHOOSE: Size	Color	Item No.
9 oz	2XL, 3XL, 4XL, 5XL	Green	**K7363**
	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black	**K7364**

Carbonized-Fiber Flame-Resistant Clothing

Carbonized fiber provides the best protection available as a single-layer garment. Performs better than traditional flame-retardant cotton material.

Jacket—Lightweight modern design with adjustable stand-up mandarin collar and a relaxed full-cut fit and elongated front for greater freedom of movement. Breathable and washable. With 2 pockets. Large inside pocket and snap front closure. Nomex sewn.

Bib-Style Apron—Combines heavy-duty protection and durability with lightweight comfort and dexterity. Sewn with Nomex thread. Features neck strap and adjustable waist straps.

Sleeves—Knit sleeves 4FRT5 and 4FRT6 significantly increase thermal protection in high-heat applications. Woven sleeves 4FRT1 to 4FRT4 protect from sparks, splatter, and flame in light to medium welding applications.

D9274

6ACK0

Description	▶CHOOSE: Size	Item No.
Jacket		
10-oz.	S, M, L, XL, 2XL, 3XL	**D9274**
Bib-Style Apron		
10-oz.	Universal	**6ACK0**
CF Series Sleeves		
Knit	18"L	**4FRT5** *
Knit with Thumbhole	18"L	**4FRT6** *
Woven with Wide Elastic Band	18"L	**4FRT1** *
	23"L	**4FRT2** *
Woven with Standard Elastic Band	18"L	**4FRT3** *
	23"L	**4FRT4** *

*** Priced and sold as a pair.***

4FRT5

4FRT1

4FRT3

Flame-Retardent Cotton Welding Coveralls

Provide protection from light sparks and have continuous coverage that prevents gaps at the waist when moving or bending. Relaxed design allows coveralls to be worn over work clothing and for a comfortable fit. Weldlite fabric can maintain flame resistance for up to 50 home washings or 25 commercial washings. Include an inside chest pocket, 2 rear patch pockets, and 2 front swing pockets with side slits for access to pants pockets. Snap front closure. Suitable for use in light welding applications.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	Green, Blue	**K7365**

Welding Spats and Welding Leggings

- Universal size

Protect from sparks and welding debris and feature abrasion- and flame-resistant leather construction.

Welding Spats—Help protect the ankle and top of footwear. Have rivet-reinforced seams and stress points, and lock-stitched with flame-resistant Kevlar thread for long life. 38RL47 features a 1-piece leather shoe flare that provides full coverage to footwear. Have 3 adjustable leather straps and 1 instep strap that secure protector to footwear. 388Y19 has 2 adjustable leather straps and 1 instep strap that secures protector to footwear.

Welding Leggings—Provide protection for the lower leg from the knee down and have a metal instep bar to hold shoe flare to footwear.

388Y19

38RL48

Overall Length	Leather Grade	Closure Type	Item No.
Welding Spats			
7 in	Premium	Adjustable Strap	**38RL47**
7 in	Standard	Adjustable Strap	**388Y19**
Welding Leggings			
9 in	Standard	Hook-and-Loop	**38RL48**

Slash Pocket Jacket

Cotton and polyester jacket features lining and insulation to keep chest and arms warm. Two slash pockets protect hands while a sleeve pocket can hold pens, gauges and small tools. Brass zipper closure.

▶CHOOSE: Size	▶CHOOSE: Color	▶CHOOSE: Body Type	Item No.
JT22			
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	Black, Brown, Charcoal, Navy, Green	Regular, Tall	K7366

Cooler Wear Jacket

- Comfort rating: 10°F
- Navy color

Insulated knit collar and hand warmer pockets helps keep workers warm. Made of water-repellent, ripstop coated nylon and has 7½ oz. midloft insulation. Details include bound seams and a storm flap over the zipper.

▶CHOOSE: Fits Chest Size	Item No.
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in, 54 in to 56 in, 58 in to 60 in, 62 in to 64 in	H5433

Quilt-Lined Jacket

Versatile, midlength, JT38 jacket stands up to industrial laundering and has a rib knit collar, cuffs, and waistband; 2 lower inset slash pockets; and a utility pocket on left sleeve. Shell is 7¼-oz., 65% polyester/35% cotton twill. 100% polyester permanent black quilted lining.

▶CHOOSE: Size	▶CHOOSE: Color	▶CHOOSE: Body Type	Item No.
JT38 Quilt-Lined			
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	Navy, Black, Charcoal	Regular, Tall	G0617

Insulated Softshell Jacket

- Comfort rating: -20°F

This water- and wind-resistant jacket features a breathable yet durable polyester design. It includes a lining and insulation for cold conditions. Three outside pockets and one inside pocket for storing items. Drawstring waist keeps out wind and drafts.

▶CHOOSE: Fits Chest Size	Color	Item No.
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in, 54 in to 56 in, 58 in to 60 in, 62 in to 64 in	Black/Gray	H4970

Panel Jacket

Insulated cotton polyester work jacket keeps out the cold while working outside. Jacket includes a quilted lining and ends at the hip. Waist band tabs allow wearer to tighten or loosen waist. A sleeve pocket holds pens and other small tools.

▶CHOOSE: Size	▶CHOOSE: Color	▶CHOOSE: Body Type	Item No.
JT50			
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	Navy, Black, Brown, Charcoal, Green	Tall, Regular	G0618

Bomber Jacket

- Comfort rating: -20°F
- Black color

Lightweight, durable outerwear is designed to wear in freezer units or outdoors. 420-denier nylon outer shell with a polyurethane coating for extra strength and waterproofing and 200g polyester quilted insulation for warmth. Jacket has knit cuffs to help seal out the weather, fleece collar, 2 front pockets with zippers, and a waterproof inside pocket.

▶CHOOSE: Fits Chest Size	Item No.
Bomber Jacket	
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in, 54 in to 56 in, 58 in to 60 in, 62 in to 64 in	H4966

Bib Overalls

Bib overalls are lined with 6-oz. quilted polyester insulation for warmth. Reinforced knees, cuffs, and trim for durability; pockets at knee for knee pads. 2-way covered leg zippers from ankle to hip. Adjustable shoulder straps and turned under hem for a 3" extension.

▶CHOOSE: Fits Waist Size	▶CHOOSE: Color	Item No.
Bib Overalls		
32 to 34 in, 36 to 38 in, 40 to 42 in, 43 to 45 in, 46 to 48 in	Black, Navy	H4959

H4968

H4969

RefrigiWear

Iron-Tuff Insulated Jacket and Bib Overalls

- Comfort rating: -50°F

Made of 420-denier nylon with 11¼-oz. high-loft polyester fiberfill insulation, this outerwear provides water-repellent, wind-tight protection from the elements. Storm flaps, bound seams, and insulated pockets provide additional protection. Jacket has heavy-duty knit cuffs, draft-sealing elastic back band, and fleece collar. Bib overalls have a high front and back and adjustable, heavy-duty elastic suspenders.

▶CHOOSE: Fits Chest Size	▶CHOOSE: Color	Item No.
Jacket		
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in, 54 in to 56 in, 58 in to 60 in, 62 in to 64	Navy, Green	H4968
▶CHOOSE: Fits Waist Size	**▶CHOOSE: Color**	**Item No.**
Bib Overalls		
28 to 30 in, 32 to 34 in, 36 to 38 in, 40 to 42 in, 44 to 46 in, 48 to 50 in, 52 to 54 in, 56 to 58 in	Navy, Gray	H4969

H4947

H4948

RefrigiWear

ComfortGuard Insulated Jacket and Bib Overalls

- Comfort rating: -10°F
- Black color

Outerwear has a rugged 100% cotton denim outer shell with a weather-resistant, water-repellent finish and 7½-oz. midloft polyester fiberfill insulation. Jackets have a storm flap over the zipper, heavy-duty knit cuffs, and hand warmer pockets for additional protection from the elements. Bib overalls have 2-way hip-length leg zippers, adjustable suspenders, and an interior waist drawcord.

▶CHOOSE: Fits Chest Size	Item No.
Jacket	
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in, 54 in to 56 in, 58 in to 60 in	H4947
▶CHOOSE: Fits Waist Size	**Item No.**
Bib Overalls	
28 to 30 in, 32 to 34 in, 36 to 38 in, 40 to 42 in, 44 to 46 in, 48 to 50 in, 52 to 54 in	H4948

J7298

J7299

RefrigiWear

Econo-Tuff Insulated Jacket and Bib Overalls

- Comfort Rating: 15°F
- Navy color

Jacket is durable and lightweight as well as both water-and wind-resistant. Features 6 oz. polyester insulation and polyester outer shell along with knit collar and cuffs. Includes two outside pockets and one inside pocket. **Bib overalls** provide warmth and coverage without added bulk. Overalls are polyester with adjustable 2" heavy-duty suspenders and brass rivets at stress points.

▶CHOOSE: Fits Chest Size	Item No.
Jacket	
34 to 36 in, 38 to 40 in, 42 to 44 in, 46 to 48 in, 50 to 52 in, 54 to 56 in, 58 to 60 in	J7298
▶CHOOSE: Fits Waist Size	**Item No.**
Bib Overalls	
28 in to 30 in, 32 in to 34 in, 36 in to 38 in, 40 in to 42 in, 44 in to 46 in, 48 in to 50 in, 52 in to 54 in	J7299

carhartt

Duck Insulated Coat

Designed for ultimate warmth in extreme cold conditions. Made from 12-oz. heavyweight 100% ring-spun cotton duck with a quilted nylon lining and arctic weight polyester insulation. Triple-stitched main seams with a pleated bi-swing back for extra stretch across the shoulders and good range of motion. 2-way zip front with hook-and-loop storm flap and storm cuffs to keep cold out. Two chest pockets with flap and hook-and-loop closure, two large lower front pockets, and two inner pockets offer plenty of space to hold personal items.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL	Navy, Brown, Black	D7561

carhartt

Hooded Duck Insulated Coat

Designed to keep outdoor workers warm in cold weather conditions. Rugged 12-oz. heavyweight 100% ring-spun cotton duck fabric with quilted flannel lining in the body and quilted nylon lining in sleeves. Attached hood has quilted flannel lining with draw-cord closure to keep cold out. Rib-knit cuffs and waist. Two pouch-style front pockets and two inside pockets for personal storage.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black, Brown, Navy	F2635

Dickies

Insulated Color Block Jacket

Made from water-resistant 8-oz. twill fabric with a quilted insulated lining. Zipper front with adjustable waist tabs and cuffs for a comfortable fit. Two slash front pockets and an inside pocket. Silver color block on the shoulders gives a stylish look.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black/Silver, Navy/Silver	J4786

RED KAP 1923

Hooded Duck Insulated Jacket

Durable 10-oz. 65% polyester/35% cotton blend duck fabric resists stains. 100% polyester quilted insulated lining provides warmth in cold conditions. Hood has a quilted lining and adjustable drawstring to keep cold out. Zipper front with elastic waistband. Two front pouch-style hand warmer pockets.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Brown, Navy	K7370

carhartt

Duck Bib Overalls

Made from 12-oz. heavyweight 100% ring-spun cotton duck fabric with triple-stitched main seams. Adjustable elastic suspenders and stretch piecing at the waist provide comfortable fit and good range of motion. Multi-compartment bib pocket with zip closure, two lower front ledge pockets, and two reinforced back pockets provide ample storage. Double-layer knees have openings for adding optional knee pads.

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
28 in, 30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in, 48 in, 50 in, 52 in, 54 in	28 in, 30 in, 32 in, 34 in, 36 in	Black, Brown, Navy	J7523

RED KAP 1923

Duck Insulated Coveralls

Durable 10-oz. 65% polyester/35% cotton blend duck fabric with a 100% polyester quilted insulated lining. 2-way front zipper with a snap-closure storm flap and adjustable hook-and-loop cuffs keep cold out. Two chest pockets with snap flaps, two lower front patch pockets, and two back patch pockets with double rule pocket provide plenty of personal storage.

▶CHOOSE: Size	Minimum Height	Maximum Height	▶CHOOSE: Color	Item No.
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	5 ft 7 in	5 ft 11 in	Navy, Brown	K7371

Long-Sleeve Coveralls

Rugged coveralls let you handle the toughest chores. Feature a generous fit in shoulders and chest, bi-swing back for full range of motion, and elastic inserts at the waist that expand for a more comfortable fit. Heavy-duty, 2-way front brass zipper.

Deluxe Cotton—All-cotton fabric with stain release finish to ease cleaning. Chest pockets and back left pocket have brass zippers and the dual pockets on the right leg help keep small tools close at hand. Snaps at sleeve and leg cuffs help keep debris out. Hammer loop on left leg and pencil pocket on left sleeve.

- 100% cotton rugged twill

Style 48700

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
Deluxe Cotton Coveralls			
34 to 36 in, 38 to 40 in, 42 to 44 in, 46 to 48 in, 50 to 52 in, 54 to 56 in	31 in, 33 in	Navy, Gray	**H4988**

Chain Saw Chaps

- Measure length from waist to top of foot

PROCHAPS

Multilayer PROLAR protective padding stops and jams a chain saw in milliseconds. Water-resistant polyurethane outer layer coating. Zippered front pocket. Open back style helps prevent heat build-up.

90 Series—Outer layer is 420 denier nylon fabric. 2 sets of quick-release buckles for waist and legs.

91 Series—Full wraparound calf protection helps protect from sharp branches and heavy brush. Outer layer is 1000 denier nylon fabric for durability in extreme conditions. 3 sets of quick-release buckles.

94 Series—Outer layer is 1000 denier nylon fabric for durability in severe environments. 3 sets of quick-release buckles.

ARBORCHAPS

Universal size chaps made for light-duty jobs. PROLAR protective padding quickly stops cutting action. 420 denier nylon fabric with water-resistant polyurethane outer layer coating. 3 sets of belt loops allow length adjustment.

K7367

E6869

Chap Style	Adjustable Locations	▶CHOOSE: Length	Color	Item No.
ProChaps				
90 Series				
Open Back	Leg and Waist	33 in, 36 in, 39 in	Orange	**K7367**
91 Series				
Enclosed Back	Leg and Waist	33 in, 36 in, 39 in	Orange	**E6869**
94 Series				
Open Back	Leg	33 in, 36 in, 39 in	Orange	**K7368**
ArborChaps				
Open Back	Leg	36 in	Green	**3MAG6**

F2622

E8387

VF Imagewear, Inc.

Coveralls

Durable-press 65% polyester/35% combed cotton fabric has soil release and wickable finish for easy cleaning. Action-back design features 2-way brass zipper closure and 1-pc. topstitched collar.

CT10—Long sleeve coveralls feature back pleats and side vents for comfort and good range of motion. 2 set-in front pockets, 2 chest pockets, 2 hip pockets and a convenient rule pocket provide plenty of space to keep items at hand.

- 7.25 oz. twill

CT30—Insulated coveralls feature a quilted lining and adjustable take-up leg snaps that let you choose your desired length and coverage. Also have a gripper at lapel, 2 set-in front pockets, 2 angled zippered chest pockets, 2 patch hip pockets, 1-pc. rule pocket, and a handy utility pocket on the left sleeve.

- 7.25 oz. twill

CP40—Short sleeves help provide comfort in warmer weather and the elastic waist provides a more comfortable fit. Feature 2 chest pockets (right pocket with functional flap), 2 set-in front pockets, and 2 patch hip pockets.

5 oz. cotton/polyester fabric

D2369

▶CHOOSE: Fits Chest Size	▶CHOOSE: Inseam	Color	Brand	Item No.
CT10 Coveralls				
38 in, 40 in, 42 in, 44 in, 46 in, 48 in, 50 in, 52 in, 54 in	30 in	Orange	Red Kap	**F2622**
CT30 Coveralls				
34 in to 36 in, 38 in to 40 in, 42 in to 44 in, 46 in to 48 in, 50 in to 52 in	30 in	Navy	Vf Imagewear	**E8387**
CP40 Coveralls				
44 in to 46 in, 40 in to 42 in, 36 in to 38 in, 48 in to 50 in, 52 in to 54 in	31 in	Navy	Vf Imagewear	**D2369**
50 in to 52 in, 46 in to 48 in, 54 in to 56 in, 42 in to 44 in	33 in	Navy	Vf Workwear	**D2369**

Chain Saw Chaps

- Stop chains up to 2750 fpm
- Measure from waist to top of foot
- Meet ASTM F1897-2008 and ASTM F1414

Outer layer is 1000-denier Cordura nylon treated with a PTFE coating to repel oil, water, and dirt. Waist belt adjusts approx. 34" to 48". Include utility pouch and quick-release buckles for easy on and off.

Chap Style	Adjustable Locations	▶CHOOSE: Length	Color	Item No.
Open Back	Leg and Waist	34 in, 38 in, 42 in	Orange	**K7369**

H4984

H4978

J4787 (Front)

J4787 (Back)

J4853 (Front)

J4853 (Back)

Work Shirts and Polos

Industrial Work Shirts—Shirts feature 2 front pockets with button closure and a 2-pc. collar with permanent stays and a snap closure. 65% polyester/35% cotton poplin fabric is fade-resistant and industrial-wash friendly.

Original Fit Work Shirts—A generous fit across the shoulder helps with freedom of movement. 2 mitered front pockets with flap and button closure. 65% polyester/35% cotton twill fabric has stain release and moisture-wicking properties.

Performance Shop Polo Shirts—Stylish polos are made from 6-oz. performance knit, 100% polyester fabric that resists wrinkles, is moisture wicking, and can stand up to industrial laundry machines. Shirts also feature easy-care, stain release properties and resist snags.

Performance Shop Shirts—Button-down shirts feature a wrinkle-resistant, moisture-wicking flex fabric that stretches for easy movement during long days in the shop. Fabric also features easy care, stain release and color retention properties for increased durability. Also easily washes and dries quickly in industrial laundry machines. Include adjustable cuffs and a front pencil pocket.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Industrial Work Shirts			
Short-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black, Tan, Navy	H4982
Long-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black, Tan, Navy	H4984
Original Fit Work Shirts			
Short-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Tan, Navy	H4978
Long-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL	Black, Tan, Navy	H4980
Performance Shop Polo			
Short-Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Black/Red, Black/Gray, Gray/Navy	J4787
Long-Sleeve	M, L, XL, 2XL, 3XL, 5XL	Black/Red, Black/Gray, Gray/Navy	J4855
Performance Shop Shirt			
Short-Sleeve	L, XL, 2XL, 4XL, 5XL, M, 3XL, S	Black/Red, Black/Gray, Gray/Navy	J4854
Long-Sleeve	L, XL, 2XL, 3XL, 4XL, S, M, 5XL	Black/Red, Black/Gray, Gray/Navy	J4853

G0614

G0615

D2381

VF Imagewear, Inc.

Work Shirts

Men's Dress Uniform Shirts—Feature 65% polyester/35% cotton fabric with Touchtex technology for durability, superior color retention, and wickability for greater comfort. Shirts have 2 button-through pockets (G0614 has flapped pockets) with angled bartacks, plus a sewn-down pencil stall on the left pocket. The 7-button front closure includes a button at the neck. The 2-pc., lined, banded, and topstitched collar has sewn-in stays. G0614 has short sleeves, G0615 has long sleeves.

Men's Industrial Work Shirt—Features 65% polyester/35% cotton fabric with Touchtex technology for superior color retention, a wickable finish for greater comfort, and long life. Short-sleeve shirt has 2 button-through, hex-style pockets with angled bartacks, plus a bartacked pencil stall on the left pocket. The 6-button front closure includes a gripper at the neck. The 2-pc., lined collar comes with sewn-in stays.

Men's Denim Shirt —Western-style shirt with tough, heavy-weight 100% cotton fabric. Long-sleeve shirt comes with 2 large pockets with simulated pearl gripper closures, plus a bartacked pencil stall on the left pocket. Front closure has 6 pearl-style snaps plus a button at the neck. The 2-pc., lined, banded, and topstitched collar has sewn-in stays.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Brand	Item No.
Men's Short Sleeve Dress Uniform Shirt	S, M, L, LT, XL, 2XL, 3XL	Blue, White	Red Kap	G0614
Men's Long Sleeve Dress Uniform Shirt	S, M, L, LT, XL, 2XL, 3XL	Blue, White	Red Kap	G0615
Men's Industrial Short Sleeve Work Shirt	S, M, L, XL, 2XL, 3XL, 4XL	Blue, White	Red Kap	E8040
Men's Industrial Short Sleeve Work Shirt	M, XL, 2XL, L, 3XL	Navy, Tan, Blue	Vf Workwear	E8040
Denim Long Sleeve Shirt	S, M, L, XL, 2XL, 3XL, 4XL	Blue	Vf Imagewear	D2381

Work Pants and Jeans

INDUSTRIAL WORK PANTS

- Style 2112272

Multiple pockets include deep, reinforced front pockets and left back pocket with button closure. Feature wide belt loops. Durable pants are made of 65% polyester/35% cotton vat-dyed wrinkle-resistant twill that is industrial-wash friendly and has stain release properties. Relaxed fit.

TRADITIONAL WORK PANTS

- Style 874

Work pants have a center crease for a professional look. Printed waistband for comfort. Details include tunnel belt loops and 4 pockets (2 front and 2 welt back pockets; back left pocket has button closure). 65% polyester/35% cotton wrinkle-resistant twill has stain release properties. Original fit.

PAINTER'S PANTS

- Style 1953

Pants are designed to fit over work boots. They have triple-stitched felled seams for durability. Details include multiple tool pockets, hammer loops, rule pocket on right leg, and double back pocket. 100% cotton painter's drill. Relaxed fit.

PREMIUM INDUSTRIAL CARGO PANTS

- Style 2112372

Durable cargo pants have a gusseted crotch and wide belt loops. Features reinforced front pockets and 2 cargo pants with hidden zipper closure; extra pockets on outside left cargo pocket and inside right cargo pocket. 65% polyester/35% cotton vat-dyed twill. Relaxed fit.

PERFORMANCE SHOP PANTS

- Style LP605

Feature 6 multifunctional pockets from cell to bellow. Back pockets are angled for easy access. These durable pants sit slightly below waist, have a straight leg and provide extra room in seat and thigh areas. Comes equipped with StayDark technology and feature moisture wicking abilities along with contour yoke for ease of movement. Made of 65% polyester/35% cotton this flexible, wrinkle-resistant twill has stain release properties and is industrial wash friendly. Heavy CB belt loop and double knee has opening for kneepad. Relaxed fit.

CARPENTER JEANS

- Style LU200

Tough, heavyweight denim fabric with triple-needle stitching on the side seam, yoke, and seat seam for long life. Straight-leg style with a relaxed fit that sits slightly below the waist with extra room in the seat and thigh for a more comfortable fit. Include a hammer loop and dual tool pockets. The pre-washed denim is durable enough to withstand industrial laundering.

H4972

H4974

H4977

H4971

H6041

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Item No.
Industrial Work Pants - 5 pockets			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in	30 in, 32 in, 34 in	Black, Desert Sand, Tan, Navy	**H4972**
Industrial Work Pants - 4 pockets			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in	30 in, 32 in, 34 in	Black, Tan, Navy	**H5687**
Traditional Work Pants			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in	30 in, 32 in, 34 in	Black, Tan, Navy	**H4974**
Painter's Pants			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in	30 in, 32 in, 34 in	White	**H4977**
Premium Industrial Cargo Pants			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in	30 in, 32 in, 34 in	Black, Desert Sand, Navy	**H4971**
Performance Shop Pants			
30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in	30 in, 32 in, 34 in	Black, Navy	**J4785**
Carpenter Jeans			
30 in, 32 in, 33 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in	30 in, 32 in, 34 in	Blue	**H6041**

VF Imagewear, Inc.

Relaxed- and Loose-Fit Jeans

Relaxed-Fit Style No. PD60— Antique Brass Rivets, Decorative Stitching on Back Pockets, Deep Front Pockets, Durashield Finish on Black, Felled Outseam, Seatseam, and Riser Seam, Leatherette Patch With Logo

Loose-Fit Style No. PD80— Bartacks at Stress Points, Decorative Stitching on Back Pockets, Leatherette Patch With Logo, Triple-Needle Felled Outseam, Seatseam, and Felled Riser Seam

- Hammer loop

Series PD80, Loose Fit

Series PD60, Relaxed Fit

Series	▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	Color	Brand	Item No.
Loose Fit					
PD80	28 in, 30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in, 48 in, 50 in	32 in, 34 in	Blue	Red Kap	**G0606**
Relaxed Fit					
PD60	30 in, 32 in, 34 in, 36 in, 38 in, 40 in, 42 in, 44 in, 46 in, 48 in	32 in, 34 in	Blue	Vf Imagewear	**D2386**

Chelsea Construction Pants

- Style 76488

Lightweight and highly durable, yet comfortable for all day use. Jeans feature Cordura fabric 1% polyamide-reinforced knee, bottom hem, and hanging pockets for long life. Designed with a gusseted crotch for greater durability and movement, plus a raised back for a comfortable fit in any position. Have 2 front pockets, 2 back pockets, 2 hanging pockets in Cordura fabric with double bottom for long life, polyester loops for screwdrivers and pliers, thigh pocket with flap, and a handy ruler pocket. Versatile jeans come with extendable leg length for varying body shapes, adjustable kneepad position for a more comfortable fit, and reflective material for added visibility. 79% cotton, 21% polyester, with reinforced 100% Cordura fabric.

▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	Color	Item No.
32 in, 34 in, 36 in, 38 in, 40 in	32 in, 34 in	Black	**J2828**

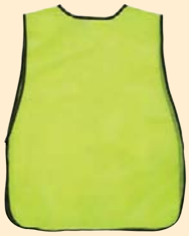
Back Stripe Pattern Options

U-Back - Has two vertical stripes and at least one horizontal stripe of reflective tape on the back of the vest

X-Back - Reflective tapes cross the back of the vest in an X pattern. Indicates a worker is facing away and can't see signals or oncoming traffic

Chevron - Inverted V-shape pattern provides enhanced worker visibility especially in low-light conditions

Vertical - Has two parallel reflective vertical stripes down the back and front of vest



None - Has no reflective stripes

Safety Vest ANSI Classification

ANSI types are based on the work environment and the activities being performed.

Type O - Off-Road

Type R - Roadway and traffic control

Type P - Public Safety

Performance classes specify the amount and design of visible and reflective material in the garment. For further information, see Quick Tip #153: High-Visibility Clothing Standards at grainger.com/quicktips.

PERFORMANCE CLASS 1 (TYPE O)

Offers the minimum amount of high-visibility material to enhance the visibility and conspicuity of workers in off-road environments.

PERFORMANCE CLASS 2 (TYPE R OR P)

Provides additional amounts of high-visibility and reflective materials that allow for better definition of the human form. Considered the minimum level of protection for workers exposed to roadway rights-of-way and TTC (temporary traffic control) zones.

PERFORMANCE CLASS 3 (TYPE R OR P)

Provides greater level of high-visibility and reflective material to make the wearer more visible in both complex backgrounds and through a full range of movement. A garment or vest without sleeves worn alone is not considered Class 3 protection.

J6012
Front

J6012
Back

J6029
Front

J6029
Back

J6017
Front

J6017
Back

ANSI-Rated High-Visibility Vests

- Available in sizes from S to 5XL at Grainger.com

High-visibility fabric and reflective tape increases safety for workers on roadways, in traffic, and in public safety settings.

Class 3 vests have short sleeves with reflective stripes to maximize worker visibility.

Fabric Construction	Closure Type	Total No. of Pockets	Material	Reflective Stripe Border Type	▶CHOOSE: Color	Brand	Item No.
Class 1, U-Back Stripe Pattern							
Mesh	Hook-and-Loop	1	Polyester	None	Orange, Lime	Condor	**J6012**
Solid	Hook-and-Loop	1	Polyester	None	Orange, Lime	Condor	**J6013**
Class 2, Chevron-Back Stripe Pattern							
Solid	Hook-and-Loop	1	Modacrylic	—	Lime	Kishigo	**J6358**
Solid	Zipper	5	Polyester	—	Orange, Lime	Condor	**J6029**
Class 2, U-Back Stripe Pattern							
Mesh	Hook-and-Loop	0	Polyester	Contrasting	Orange, Lime	Condor	**J6037**
Mesh	Hook-and-Loop	0	Polyester	Contrasting	Orange	Ability One	**29JK87**
Mesh	Hook-and-Loop	4	Polyester	None	Orange, Lime	Kishigo	**E6630**
Mesh	Hook-and-Loop	5	Polyester	None	Orange, Lime	Condor	**J6035**
Mesh	Hook-and-Loop	5	Polyester	Contrasting	Orange, Lime	Condor	**J6038**
Mesh	Hook-and-Loop	12	Polyester	None	Lime	Ability One	**K4642**
Mesh	Over-the-Head	0	Cotton	None	Orange	Ability One	**5MN46**
Mesh	Zipper	1	Polyester	None	Orange, Lime	Condor	**J6018**
Mesh	Zipper	2	Polyester	Contrasting	Orange, Lime	Kishigo	**E6640**
Mesh	Zipper	5	Polyester	Contrasting	Orange, Lime	Condor	**J6027**
Solid	Hook-and-Loop	0	Polyester	—	Lime	Mcr Safety	**K2279**
Solid	Hook-and-Loop	1	Polyester	None	Orange, Lime	Condor	**J6017**
Solid	Hook-and-Loop	1	Modacrylic	—	Lime	Kishigo	**J6358**
Solid	Hook-and-Loop	3	Polyester	—	Orange	Mcr Safety	**K2282**
Solid	Hook-and-Loop	5	Polyester	Contrasting	Orange, Lime	Condor	**J6039**
Solid	Hook-and-Loop	5	Modacrylic	—	Lime	Kishigo	**J6359**
Solid	Hook-and-Loop	5	Modacrylic	—	Orange, Lime	Kishigo	**J6357**
Solid	Zipper	0	Polyester	—	Lime, Orange	Mcr Safety	**K2280**
Solid	Zipper	1	Polyester	None	Orange, Lime	Condor	**J6020**
Solid	Zipper	1	Polyester	None	Orange, Lime	Condor	**J6016**
Solid	Zipper	2	Polyester	—	Lime	Mcr Safety	**K2283**
Solid	Zipper	5	Polyester	Contrasting	Orange, Lime	Condor	**J6028**
Solid	Zipper	6	Polyester	—	Lime, Orange	Mcr Safety	**K2277**
Solid	Zipper	6	Polyester	—	Lime	Mcr Safety	**K2271**
Solid	Zipper	7	Polyester	—	Lime	Mcr Safety	**K2284**
Solid Front/Mesh Back	Zipper	8	Polyester	Contrasting	Lime	Kishigo	**K4643**
Class 2, X-Back Stripe Pattern							
Mesh	Hook-and-Loop	5	Polyester	None	Orange, Lime	Condor	**J6026**
Solid	Zipper	6	Polyester	—	Orange	Mcr Safety	**K2277**
Class 3, U-Back Stripe Pattern							
Mesh	Hook-and-Loop	5	Polyester	None	Lime	Condor	**J6042**
Mesh	Zipper	1	Polyester	None	Orange, Lime	Condor	**J6024**
Mesh	Zipper	5	Polyester	Contrasting	Orange, Lime	Condor	**J6041**
Mesh	Zipper	5	Polyester	None	Lime	Condor	**J6040**
Solid	Zipper	5	Polyester	Contrasting	Orange, Lime	Condor	**J6047**

K2270 Front

K2270 Back

H1105 Front

H1105 Back

ANSI-Rated Breakaway High-Visibility Vests

▪ Available in sizes from S to 5XL at Grainger.com

Feature breakaway points that release to pull the vest off the worker if caught in machinery or an obstruction.

Fabric Construction	Closure Type	Total No. of Pockets	▶CHOOSE: Color	Brand	Item No.
Class 2, U-Back Stripe Pattern					
Mesh	Hook-and-Loop	5	Orange, Lime	Condor	**J6036**
Solid		3	Lime, Orange	Kishigo	**E6648**
		3	Lime	Radians	**33TX38**
		3	Lime	Radians	**33TX39**
		3	Lime	Radians	**33TX40**
		5	Orange, Lime	Condor	**J6033**
		3	Lime	Radians	**33TX41**
		3	Lime	Radians	**33TX42**
		2	Lime	Mcr Safety	**K2270**
Class 2, X-Back Stripe Pattern					
Mesh	Hook-and-Loop	1	Lime, Orange	Kishigo	**H1105**

55FF14 Front

55FF14 Back

55FF09 Front

55FF09 Back

ANSI-Rated High-Visibility Vests for Fall Protection

▪ Available in sizes from S to 5XL at Grainger.com

Feature a slot on the back that can pass through the D-ring on a fall protection harness for safe connection to a lanyard or self-retracting lifeline.

Fabric Construction	Closure Type	Total No. of Pockets	Color	Brand	Item No.
Class 2, U-Back Stripe Pattern					
Solid	Zipper	10	Orange	Milwaukee	**55FF18**
		10	Orange	Milwaukee	**55FF14**
		15	Lime	Milwaukee	**349EV6**
		10	Orange	Milwaukee	**55FF16**
		10	Lime	Milwaukee	**55FF12**
		10	Lime	Milwaukee	**55FF08**
		15	Lime	Milwaukee	**K2424**
		10	Lime	Milwaukee	**55FF10**
Solid Front/Mesh Back	Snaps	6	Lime	Kishigo	**G6842**
Class 2, X-Back Stripe Pattern					
Solid	Snaps	13	Orange	Condor	**491T19**
		13	Lime	Condor	**491T23**
	Zipper	10	Lime	Milwaukee	**55FF09**
		15	Lime	Milwaukee	**K2425**
		10	Lime	Milwaukee	**55FF11**

Non-ANSI Rated High-Visibility Vests

▪ Available in sizes from S to 5XL at Grainger.com

Made of brightly colored fabric and available with reflective stripes to increase visibility of workers and pedestrians. Non-rated (Type O) vests are for use in off-road settings such as warehouses and manufacturing facilities.

J6044 features breakaway points that release to pull the vest off the worker if caught in machinery or an obstruction.

Fabric Construction	Closure Type	Total Number of Pockets	▶CHOOSE: Color	Brand	Item No.
No-Back Stripe Pattern					
Mesh	Hook-and-Loop	0	Lime, Orange	Condor	**D0428**
U-Back Stripe Pattern					
Mesh	Hook-and-Loop	0	White	Condor	**J6025**
		1	Orange, Lime	Condor	**J6012**
		1	Orange	Ability One	**29PH71**
	Zipper	6	Black	Kishigo	**55ER77**
Solid		0	Pink	Condor	**J6048**
Vertical-Back Stripe Pattern					
Mesh	Hook-and-Loop	0	Orange, Lime	Condor	**J6025**
		0	Orange, Lime	Condor	**J6044**
		0	Lime	Condor	**53YM02**
X-Back Stripe Pattern					
Mesh	Hook-and-Loop	0	Orange	Condor	**491R72**

J6012 Front

J6012 Back

J6044 Front

J6044 Back

OccuNomix High-Visibility U-Back Polo Shirts

- 2" silver reflective tape
- Meet ANSI/ISEA 107-2020 Type R Class 2
- Up to UPF 30 protection

Moisture-wicking polyester fabric keeps workers cool and comfortable. Collared shirts have button-up front allowing wearer to adjust opening. Left chest pocket. Long sleeve polos have knit cuff.

J6329

J6332

Sleeve Type	No. of Outside Pockets	Garment Features	▶CHOOSE: Size	Color	Item No.
Short	1	Birdseye Texture	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	J6329
				Orange	J6330
Long				Yellow	J6331
				Orange	J6332

OccuNomix High-Visibility T-Shirts

- Meet ANSI/ISEA 107-2015 Type R Class 2

Moisture-wicking polyester T-shirts feature 2" silver reflective tape.

J6322

J6328

Sleeve Type	No. of Outside Pockets	Garment Features	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
U-Back					
Short	1	Birdseye Texture	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	H8429
				Orange	H8428
		Birdseye Texture, Black Bottom		Orange	J6321
		Birdseye Texture, Segmented Tape		Yellow	J6323
		None		Yellow	H9261
Long	0	Birdseye Texture		Orange, Yellow	J6319
	1	Birdseye Texture, Segmented Tape		Yellow	J6322
X-Back					
Short	1	Birdseye Texture	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow, Orange	J6328
Long	0	None		Orange, Yellow	J6337

OccuNomix High-Visibility Insulated Jackets

- 2" silver reflective tape
- Meet ANSI 107 Type R Class 3
- Roll-away hood in collar

Waterproof polyester shell with polyurethane coating. Zipper front closure with inside storm flap keeps out wind and rain. Elastic cuffs and waist for easy fit.

D9797 has polyester fleece lining with quilted sleeves.

H8437 has removable polyester fleece liner with lined sleeves.

J6339 to J6342 feature a zip-out quilted liner.

D9797

J6340

J6342

Minimum Temp.	Reflective Stripe Border Type	Closure	No. of Pockets	▶CHOOSE: Size	Color	Item No.
U-Back						
5° F	None	Zipper	4	L, M, XL, 2XL, 3XL, 4XL, 5XL	Yellow	D9797
0° F	None	Zipper	6		Yellow	H8437
-45° F	None	Zipper with Storm Flap	5	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	J6339
-45° F	None	Zipper with Storm Flap	5		Orange	J6340
-45° F	Contrasting	Zipper with Storm Flap	5		Yellow	J6341
X-Back						
-45° F	Contrasting	Zipper with Storm Flap	5	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	J6342

TINGLEY High-Visibility Jackets

- 2" silver reflective tape
- Meet ANSI/ISEA 107 Type R Class 3
- Roll-away hood in collar

BOMBER 3.1

Insulated jacket features removable quilted polyester liner that provides warmth and versatility for changing weather and work conditions. Waterproof shell with storm fly front and zipper front closure to seal out wind and rain. Elastic cuffs and waist for comfortable fit.

BOMBER II

Waterproof jacket has quilted polyester lining for warmth and comfort. Lightweight polyester shell with storm fly front and zipper front closure. Elastic cuffs and waist for comfortable fit.

ICON LTE

Lightweight fabric is polyurethane on ripstop polyester to provide durability and tear resistance. Waterproof and breathable with full vented cape back - ideal for warmer climates. 2-way front closure with zipper and snaps.

NARWHAL

Premium heat retention jacket with aluminum oxide Thermo-ficient lining that reflects up to 70% of natural body heat to keep workers warm in frigid temperatures. 100% waterproof and windproof heavy-duty woven polyester construction. Zipper storm fly front with throat guard seals out wind, rain, and snow. Tapered sleeve cuff with hook-and-loop take-up straps.

K4993

H1998

J5375

K2730

Description	Closure	No. of Pockets	▶CHOOSE: Fits Chest Size	▶CHOOSE: Color	Item No.
Bomber 3.1	Zipper	8	36 in - 46 in, 40 in - 49 in, 44 in - 52 in, 48 in - 55 in, 52 in - 58 in	Green; Yellow	K4993
Bomber II	Zipper	8	36 in - 46 in, 40 in - 49 in, 44 in - 52 in, 48 in - 55 in, 52 in - 58 in, 56 in - 61 in, 60 in - 64 in, 64 in - 67 in	Green; Yellow, Orange	H1998
Icon LTE	Zipper with Storm Flap	6	36 in - 44 in, 40 in - 48 in, 44 in - 52 in, 48 in - 56 in, 52 in - 60 in, 56 in - 64 in, 60 in - 68 in, 64 in - 72 in	Green; Yellow	J5375
Narwhal	Zipper with Storm Flap	3	36 in - 46 in, 40 in - 49 in, 44 in - 52 in, 48 in - 55 in, 52 in - 58 in, 56 in - 61 in, 60 in - 64 in, 64 in - 67 in	Green; Yellow	K2730

OccuNomix High-Visibility U-Back Insulated Coveralls

- Meet ANSI 107 Type R Class 3
- Detachable insulated hood
- Underarm vents

Cold weather coveralls have quilted thermal insulation and a waterproof polyester shell with a polyurethane coating to keep workers warm in frigid temperatures. Front storm flap with 2-way zipper and elastic waist with back storm flap keep wind and snow out. Waterproof side zippers with storm flap allow easy boot access.

J6345

Minimum Temp.	Entry Closure Type	▶CHOOSE: Size	Color	Item No.
-50° F	Zipper with Storm Flap	M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow	J6345

TINGLEY

High-Visibility Rainwear

- 0.35mm
- Meets ANSI/ISEA 107
- Jackets and Coats are Type R Class 3
- Overalls are Class E

Comfort-Brite PVC rainwear resists flames, mildew, and many chemicals and features 2"W silver reflective tape. Heat-sealed seams provide 100% waterproof protection. Nonconductive hardware. Jackets and coat have zipper closure with storm-fly front and a roll-away hood. D-ring access and fully vented cape back. Bib overalls have suspenders with quick-release buckles.

F0797

F0798

▶CHOOSE: Size	Color	Item No.
Rain Jacket		
S, M, L, XL, 2XL, 3XL	Green/Yellow	F0797
4XL, 5XL	Green/Yellow	H7544
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	E1823
Rain Coat		
S, M, L, XL, 2XL, 3XL, 4XL	Green/Yellow	E2067
Rain Bib Overall		
S, M, L, XL, 2XL, 3XL	Lime	F0798
4XL, 5XL	Green/Yellow	H7545
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	E1824

ergodyne

High-Visibility Rainwear

- Meets ANSI 107
- Type 2 Class 2

GloWear rainwear outer shell is constructed of 300-denier breathable oxford polyester with polyester mesh-lined polyurethane-coated interior. Zipper front and cell phone chest pocket. Pants have elastic drawstring waist. 3M Scotchlite 2"W reflective tape is ANSI level 2 compliant.

D2323

D2324

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Jacket	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange, Yellow/Green	D2323
Pants	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange, Green	D2324

Condor

High-Visibility Rainwear

- Meets ANSI standards
- Jacket is Class 3
- Bib overalls are Class E

Bright color with 2"W 3M reflective tape.

PVC/Nylon—Jacket and coat have zip-front closure and outer storm-fly with hidden snap closures. Drawstring hood concealed in collar. Bib overalls feature adjustable elastic suspenders, leg cuffs, and elastic waist. Double heat-welded seams.

- 0.35mm

D2326 and D2327 (Sold Separately)

Description	▶CHOOSE: Size	Color	Item No.
PVC/Nylon			
Jacket with Detachable Hood	S, M, L, XL, 2XL, 3XL, 4XL	Green	D2326
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL	Green/Yellow	D2327
Coat with Detachable Hood	S, M, L, XL, 2XL, 3XL, 4XL	Green	D2328

H7524

H7529

G5395

G5391

G5393

G5398

VIKING "Brave The Elements"

High-Visibility Rainwear

- ANSI/ISEA 107-2015
- Coats are Type R Class 3 Level 2
- Pants are Class E
- Waterproof

Ripstop fabric with a polyurethane backing for abrasion, puncture, rip, and snag resistance. Taped and heat-sealed seams and nylon lining. Windproof and resists cold.

Open Road—Durable 150-denier material is lightweight and flexible. 2" Vi-brance reflective tape. Coat has a protective collar storm flap, detachable hood and wrist cuffs (both adjustable). Bib overalls have a front fly and adjustable boot cuffs.

Professional Journeyman—300-denier trilobal fabric construction. Coat has a detachable hood, zip front, flap, and zippered pockets. Bib overalls have a removable bib for conversion to waist pants. Include waist snap, fly, boot access zippers, and elastic suspenders.

Professional Thor—Durable 300-denier trilobal fabric. Breathable coat has 4" contrasting 3M reflective striping. detachable hood, zip front, and flap. Includes outside pockets with waterproof zippers, mic clips, and armpit ventilation zippers.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Open Road			
Coat	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green	H7524
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Green/Yellow	H7529
Professional Journeyman			
Coat	S, M, L, XL, 2XL, 3XL, 4XL	Green, Orange	G5391
Bib Overalls/Waist Pants	S, M, L, XL, 2XL, 3XL	Green/Yellow, Orange	G5395
Professional Thor			
Coat	S, M, L, XL, 2XL, 3XL, 4XL	Yellow/Green, Orange	G5393
Waist Pants	S, M, L, XL, 2XL, 3XL	Green/Yellow, Orange	G5398

J4031

J4033

TINGLEY

Flame-Resistant Rainwear

- Meets ASTM D6413

Safetyflex—Specialty PVC on polyester material is durable, mildew resistant, and provides a comfortable fit. Fabric is chemical resistant to many acids, alcohols, alkalies, oils, and salts, while the Therm-O-Rad sealed seams provide you 100% liquidproof protection. The jacket features full cut shoulders with 90° sleeve to body angle for supreme freedom of movement, an attached hood, and a storm fly front to seal out rain, wind, and contaminants. The tapered sleeves can fit in protective gloves and can accommodate glove rings for additional safety. Overalls have a plain front and feature a stitch bonded, non-woven lining that resists tears, punctures, and dissipates moisture. Suspenders have a snap lock buckle for easy adjustments. Snap closures are heavy-duty for long life.

Magnaprene—Nylon fabric is coated with neoprene for abrasion and mildew resistance, and to protect against acids, chemicals, oils, and solvents. The stitched and taped seams offer 100% waterproof protection. Jacket features batwing sleeve construction for maximum freedom of movement and take-up snaps on the sleeves for an adjustable fit. Comfortable corduroy tip collar and a storm fly front that helps seal out rain, wind, and contaminants. Pants have take-up snaps on the ankle cuffs for an adjustable fit and heavy duty snaps for long life.

Rainwear Style	▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Safetyflex			
Flame Resistant Rain Jacket	S, M, L, XL, 2XL, 3XL, 4XL	Green	**E8676**
Flame Resistant Rain Bib Overall	S, M, L, XL, 2XL, 3XL, 4XL	Green	**E9131**
Magnaprene			
Flame Resistant Rain Jacket	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Tan	**J4031**
Flame Resistant Rain Bib Overall	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Yellow, Tan	**J4033**

J2256

K7316

J2262

TINGLEY

High-Visibility Arc-Flash and Flame-Resistant Rainwear

- 2" silver reflective tape
- Jackets and Coats are Type R Class 3
- Bib Overalls are Class E

Eclipse Quad-Hazard rainwear features Thermo-Grid technology to block out heat energy, while the flame resistant PVC coating on Nomex provides 100% liquid proof protection. Ideal for use in all electric and gas utilities, power generation, pipeline and construction work, as well as in petrochemical applications. Resistant to many acids, oils, alcohols, salts, and alkalies.

Jackets and Coats—High-visibility, liquid-proof coats provide excellent arc flash protection and have an overhead shoulder design to let you do overhead work without limiting your range of motion. The zipper/storm fly front has a snap closure and hidden non-conductive, non-corrosive hardware to seal out heat, wind, rain, and contaminants, while hook and loop take-up straps on wrists help assure an adjustable fit. D-ring access lets you attach a fall protection harness. Also feature a flame-resistant corduroy collar with rollaway hood and a full-vented cape back for improved air circulation.

Jackets J2556 and J2557 also provide flash fire protection, and have an adjustable elastic drawcord.

Bib Overalls—Snap fly front overalls feature Quad-Hazard high-visibility, liquid proof, arc flash, and flash fire protection. Suspenders have heavy-duty non-conductive quick-release buckles and crossovers, while the hook-and-loop take-up straps on ankle cuffs provide an adjustable fit and help seal out contaminants.

Description	▶CHOOSE: Size	Color	Item No.
ATPV Rating 8.7 cal./cm² - HRC 2			
Jackets	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Lime	**J2256**
Coats	S, M, L, XL, 2XL, 3XL, 4XL	Lime	**J2261**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Lime	**K7316**
ATPV Rating 11 cal./cm² - HRC 2			
Jackets	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	**J2257**
Coats	S, M, L, XL, 2XL, 3XL	Orange	**J2262**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Orange	**K7317**

D0649

D0652

NASCO

High-Visibility Arc- and Flame-Resistant Rainwear

- Meets ANSI/ISEA 107
- Jackets are Type R Class 3 Level 2
- Overalls are Class E

Features 3M 2" high-visibility reflective trim and welded seams.

ArcLite—Provides protection in telecommunications and electric utility environments. Lightweight, flexible Nomex with FR polyurethane/PVC barrier minimizes heat transfer burns and has limited chemical splash resistance.

- Meets ASTM F1891

Sentinel—Durable, flexible 100% FR cotton knit with FR polyurethane barrier minimizes heat transfer burns and provides resistance to chemical splashes. Protects from oils, hydrocarbons, salts, and alcohols in electric and gas utility environments and refineries.

- Meets ASTM F1891 and F2733

Description	▶CHOOSE: Size	Color	Item No.
ArcLite 7.2 cal/sq cm - HRC			
Jackets	S, M, L, XL, 2XL, 3XL, 4XL	Lime	**D0642**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL	Yellow	**D0644**
Sentinel 16 cal/sq cm - HRC			
Jackets	S, M, L, XL, 2XL, 3XL, 4XL	Orange	**D0649**
Bib Overalls	S, M, L, XL, 2XL, 3XL, 4XL	Orange	**D0652**

Impertech Sanitation Rainwear

- 0.16mm
- Meet ASTM F1671 Bloodborne Pathogen standard
- Navy color

Constructed of circular knit polyester backing with a stretch polyurethane coating. Microwelded seams help ensure that garments are waterproof. Stretches with wearer for extra comfort.

Jacket—Front zip has a snap storm flap and over-flap front closure with plastic snaps. Attached hood has elastic for protection. Raglan sleeves enable increased arm movement.

Bib Overalls—Have a high waist and adjustable elastic suspenders. Snap adjustment waist and elastic at ankles for protection.

D7616

D7617

▶CHOOSE: Size	Item No.
Jacket	
S, M, L, XL, 2XL, 3XL, 4XL	D7616
Bib Overalls	
S, M, L, XL, 2XL, 3XL, 4XL	D7617

Bristol Bay Rainwear

- 0.75mm

PVC with cotton twill backing provides protection against chemicals, animal fats, and motor oils. Material is water- and windproof and resistant to the effects of seawater and sunlight. Durable double trimmed seams and generous sizing for working comfort. Machine washable.

Jacket has attached drawstring hood with large visor, neoprene storm cuffs, chrome-plated brass snaps, and double snap system on placket for extra wind and rain protection.

Pants feature an additional 0.35mm layer of PVC-coated oxford nylon for extra wear resistance. Also with adjustable waist panel and heavy-duty elastic suspenders.

G5389

G5394

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Jackets		
M, L, XL, 2XL, 3XL, S	Green, Orange	G5389
Pants		
S, M, L, XL, 2XL, 3XL	Green, Orange	G5394

Open Road Ripstop Rainwear

- 150 denier

Lightweight gear is waterproof and provides protection against rips, snags, tears, punctures, and abrasion. Seams are double stitched, taped, and heat sealed.

Jackets have a protective collar storm flap, helping to block out wind and water. Feature 2 front storage pockets and multiple front and back vents for breathability. Drawstrings on attached hood and wrist cuffs are adjustable.

Bib Pants feature quick-release clip suspenders and have a front fly with hook-and-loop closure along with adjustable boot cuffs.

H7523

H7528

▶CHOOSE: Size	Color	Item No.
Jacket		
S, M, L, XL, 2XL, 3XL	Yellow	H7523
S, M, L, XL, 2XL, 3XL	Green	H7525
Pants		
S, M, L, XL, 2XL, 3XL	Yellow	H7528
S, M, L, XL, 2XL, 3XL	Green	H7527

D2283

D2282

D2284

D2286

PVC Rainwear

- Yellow color
- Available in sizes S - 3XL

3-Pc. Disposable PVC Suit—Snap-front jacket, detachable hood with drawstring, elastic waist pants, and storage pouch included. Snap adjustable sleeves and pants.

- 0.10mm

3-Pc. PVC Suit—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.

- 0.25mm

PVC Raincoat—Features cape back ventilation, detachable hood, and 2 pockets.

- 0.25mm

3-Pc. PVC/Polyester Suits—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.

- 0.35mm

3-Pc. PVC/Nylon Suit—Snap-front jacket with detachable hood and bib overalls with snap-fly front. Elastic suspenders included.

- 0.35mm

Description	Item No.
3-pc. Disposable PVC Suit	D2281
3-pc. PVC Suit	D2283
PVC Raincoat	D2282
3-pc. PVC/Polyester Suit	D2284
3-pc. PVC/Polyester Suit	D2285
3-pc. PVC/Nylon Suit	D2286

D2295 and D2296 (Sold Separately)

Polyurethane/ Nylon Rainwear

Condor

- 0.25mm

Polyurethane exterior stands up to chlorinated water used in food processing plants and other sanitary applications. Welded seams.

Jackets—Have snap front closures and detachable hood.

Bib Overalls—Plain-front overalls include adjustable elastic suspenders. Reinforced knee patches provide added protection.

▶CHOOSE: Size	Color	Item No.
Jackets with Detachable Hood		
S, M, L, XL, 2XL, 3XL, 4XL	Yellow	D2293
S, M, L, XL, 2XL, 3XL, 4XL	Green	D2295
Bib Overalls		
S, M, L, XL, 2XL, 3XL, 4XL	Yellow	D2294
S, M, L, XL, 2XL, 3XL, 4XL	Green	D2296

D8968 and D8971 (Sold Separately)

Polyurethane/ Nylon Rainwear

TINGLEY

- 0.25mm exterior coated polyurethane on Oxford nylon

Iron Eagle rainwear provides exceptional snag and abrasion resistance. Protects against fats, oils, grease, and other chemicals. Heat-sealed seams can withstand extensive laundering.

Jackets—Feature storm fly front and are available with attached hood or hood snaps.

Bib Overalls—Plain front overalls have premium snap-lock suspender buckles.

▶CHOOSE: Size	▶CHOOSE: Color	Item No.
Jacket with Attached Hood		
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, Green, Yellow	D8968
Jacket with Hood Snaps		
S, M, L, XL, 2XL, 3XL, 4XL	Blue, Green, Yellow	D8969
Bib Overalls		
S, M, L, XL, 2XL, 3XL, 4XL	Blue, Green, Yellow	D8971

D2313 and D2314 (Sold Separately)

D2315

Condor

SBR Rubber Rainwear

- 100% SBR rubber with cotton/polyester lining
- 0.46mm

Vulcanized, cemented seams for durability. SBR resists punctures, tearing, mild acids, ketones, and organic esters. Yellow color.

Jacket—Snap-front closure and attached hood.

Bib Overalls—Feature nickel-plated snap-fly front with elastic suspenders.

Raincoat and Rain Hood—Raincoat has corduroy-tipped collar and snap front. Raincoat length: 45". Snap-on rain hood is sold separately.

▶CHOOSE: Size	Item No.
Jacket with Attached Hood	
S, M, L, XL, 2XL, 3XL, 4XL	D2313
Bib Overalls	
S, M, L, XL, 2XL, 3XL, 4XL	D2314
Raincoat	
S, M, L, XL, 2XL, 3XL, 4XL	D2315
Rain Hood	
Universal	4ML31

1EJY1

3GRR8

Condor

Ponchos and Umbrella

Disposable Ponchos with Hood—Heat-sealed seams prevent leaks. 2ELD5 is made of polyethylene and comes in an individual pouch. 1EJY3 includes side snaps.

- 2ELD5 is 0.02mm - 50" x 80"
- 1EJY3 is 0.10mm - 52" x 80"

PVC/Nylon Ponchos with Hood—Hood has visor and drawstring. Electronically welded seams and snaps prevent leaks. Storage bag included.

- 0.20mm - 50" x 80"

Umbrella—Heavy-duty umbrella with push-button automatic open and automatic close for 1-handed operation.

Color	Item No.	Pkg. Qty.
Disposable Ponchos with Hood, Universal Size		
ClearClear	2ELD5	24
YellowYellow	1EJY3	1
PVC/Nylon Ponchos with Hood, Universal Size		
GreenGreen	1EJY1	1
Yellow/GreenYellow	1EJY2	1
Umbrella, 40" Open dia.		
Black	3GRR8	1

K7311

TINGLEY

3-Piece Rain Suits

- 100% waterproof
- Include jacket, detachable hood, and overalls
- Yellow color

PVC—Single ply PVC suit includes jacket with storm fly front, snap closure, and a storm flap. Bib overalls have adjustable suspenders. For general purpose, light duty use.

Heavy-duty PVC—Double-coated PVC on polyester suit provides chemical, flame, and abrasion resistance. Storm fly front jacket keeps wind and rain out. Snaps at wrists and ankle cuffs adjust for better fit. Bib overalls have adjustable suspenders. Resists many acids, alcohols, alkalies, and oils for use in light chemical, construction, utility, food processing, and general industry applications.

▶CHOOSE: Size	Thickness	Seam Style	Item No.
PVC			
L, M, S, XL, 2XL	0.2 mm	Welded	E0133
Heavy Duty PVC			
S, M, L, XL, 2XL	10.5 mil	Heat Sealed	K7311

G3213 and G3214 (Sold Separately)

PolyCo
innovative protective solutions

VR Polyolefin Rainwear

- 0.8mm

Soft, lightweight material is cold-crack and tear- and chemical-resistant; impervious to fats and oils. 3" patches sealed into crotch and underarms for reinforcement. Jacket has extra-large snaps for convenience and storm flap for added protection. Overalls have adjustable elastic suspenders with large quick-release buckles.

Description	▶CHOOSE: Size	Item No.
Jacket	L, XL	G3213
Bib Overalls	L, XL	G3214

Beard Nets, Bouffants, and Hairnets

Help prevent product contamination. Stretchable elastic provides a comfortable and secure fit.

BEARD NETS

Use to contain facial hair and are ideal for use in food handling applications.

BOUFFANTS

Can provide more protection than hairnets and help keep long hair out of face and eyes. Ideal for use in electronics manufacturing, laboratory, and cleanroom applications.

HAIRNETS

Provide reliable and economical protection in food handling applications. Can help keep long hair out of eyes and face.

Beard Cover 4GL65

Hairnet 1TTU6

Dia.	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Beard Nets				
Nylon				
18 in	White	—	**9RD56**	100
Polyester				
18 in	White	Condor	**1TTV5**	100
18 in	White	Condor	**23KX05**	100
19 in	Blue, White	Cellucap	**H2299**	1000
Polypropylene				
16 in	Blue	Condor	**H8277**	1000
18 in	White	Condor	**1TTV4**	100
18 in	White	—	**4YMR3**	100
18 in	Blue	—	**9LMJ9**	100
18 in	White	Condor	**H8277**	1000
19 in	White	Cellucap	**4GL65**	100
19 in	Blue, White	Cellucap	**H2300**	1000
Bouffants				
21"	Blue	Keystone	**H9099**	1000
21 in	Blue, Green, White	Cellucap	**E9210**	100
21 in	White, Blue	Condor	**H8280**	1000
21 in	White, Green, Red, Blue	Keystone	**H9099**	1000
21 in	White	Cellucap	**22CU25**	1000
21 in	White	Cellucap	**34FZ76**	100
21 in	Blue	Cellucap	**34FZ78**	100
24"	Blue, Green, Yellow	Condor	**H8283**	100
24 in	White, Green, Blue, Yellow	Condor	**D2138**	100
24 in	Orange, Blue, Green, Red, Yellow	Cellucap	**H2306**	1000
24 in	White, Blue, Green	Condor	**H8282**	1000
24 in	White	Condor	**H8283**	100
24 in	White, Blue	Condor	**H8287**	100
24 in	White, Green, Red, Blue	Keystone	**H9100**	1000
24 in	White	Cellucap	**22CU26**	1000
24 in	White	Condor	**29JW33**	100
24 in	White	Cellucap	**34FZ77**	100
24 in	Blue	Cellucap	**34FZ79**	100
24 in	Green	Cellucap	**34FZ81**	100
28 in	White, Blue, Yellow	Condor	**D2139**	100
28 in	White, Blue	Condor	**H8285**	1000
28 in	White	Cellucap	**22CU27**	1000

Dia.	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Hairnets				
Heavyweight Nylon				
18 in	White	Cellucap	**4GL64**	144
21 in	Black	—	**9TYL6**	100
Lightweight Nylon				
22 in	Black	—	**8FAE2**	144
26 in	Beige, Brown	Cellucap	**F0588**	144
Nylon				
18 in	White	Condor	**H8268**	100
21 in	White, Black	Condor	**H8271**	100
22 in	White	Condor	**H8272**	144
24 in	Black	Condor	**H8274**	100
26 in	Black, White	Cellucap	**F0588**	144
Nylon/Polyester				
24"	White	Condor	**H8294**	100
Polyester				
18 in	White	Condor	**1TTU6**	100
20 in	White	Condor	**1TTU7**	100
20 in	White	Condor	**H8293**	100
21 in	Blue, White	Condor	**H8270**	1000
24 in	White	Condor	**1TTU8**	100
24 in	Blue, White	Cellucap	**H2303**	1000
24 in	Blue, White	Condor	**H8273**	1000
24 in	White	Condor	**H8294**	100

Particulate & Liquid Protective Boot & Shoe Covers

These boot and shoe covers are worn over personal footwear to protect surfaces from contaminants and protect footwear from damage.

Non-Hazardous or Hazardous Dry Particulates—For use when working with non-hazardous or hazardous dry particulates larger in size than aerosols and include dust and dirt.

Non-Hazardous Liquid Splash/Spray—Use when working with non-hazardous liquid splash and spray. Splash is non-pressurized or lightly pressurized when it contacts a garment while spray is pressurized.

Bloodborne Pathogen Resistance for Non-Hazardous Dry Particulates and Non-Hazardous Liquid Splash—Help protect from bloodborne pathogens (such as hepatitis), non-hazardous dry particulates (larger in size than aerosols and include dust and dirt), and non-hazardous liquid splash (non-pressurized or lightly pressurized when it contacts a garment while spray is pressurized).

Height Range	Includes Slip Resistant Sole	Color	Size	Brand	Item No.	Pkg. Qty.
Boot & Shoe Covers for Non-Hazardous Dry Particulates						
Polyethylene Coated Polypropylene						
Mid-Calf	Yes	White	L	Dupont	**4LUR2**	100
Mid-Calf	Yes	White	XL	Dupont	**4LUR3**	100
Polypropylene						
Ankle	Yes	White	L	Cellucap	**163M07**	300
Ankle	Yes	White	XL	Cellucap	**40N282**	300
Ankle	No	White	Universal	Condor	**2KTU2**	200
Ankle	Yes	White	Universal	Condor	**2KTU3**	200
Knee	Yes	White	Universal	Condor	**2RUZ3**	50
Ankle	Yes	Blue	Universal	Condor	**30ZD80**	300
Ankle	Yes	Blue	Universal	Condor	**60EE99**	100
Ankle	Yes	Blue	XL	International Enviroguard	**782T49**	300
Ankle	Yes	Blue	XL	Cellucap	**9YR59**	100
Ankle	Yes	Blue	XL	Cellucap	**9YR60**	300
SMMMS						
Mid-Calf	No	White	Universal	Kimberly-Clark	**33VA32**	300
Ankle	No	White	Universal	Kimberly-Clark	**33VA33**	300
Ankle	Yes	Blue	Universal	Kimberly-Clark	**42EP82**	300
SMS						
Ankle	No	White	XL	International Enviroguard	**782T35**	200
Boot & Shoe Covers for Hazardous Dry Particulates & Non-Hazardous Liquid Splash/Spray						
Tyvek(R)						
Mid-Calf	No	White	Universal	Dupont	**24AG98**	200
Knee	No	White	Universal	Dupont	**24AH01**	100
Ankle	Yes	Gray	Universal	Dupont	**4LUR4**	100
Ankle	No	White	Universal	Dupont	**5WYC9**	200
Knee	Yes	White	L	Dupont	**5WYD0**	100
Knee	Yes	White	XL	Dupont	**5WYD1**	100
Ankle	Yes	Gray	Universal	Dupont	**6LY43**	200

2RUZ3

24AG98

22CT86

782T36

24AF86

Height Range	Includes Slip Resistant Sole	Color	Size	Brand	Item No.	Pkg. Qty.
Boot & Shoe Covers for Non-Hazardous Dry Particulates & Non-Hazardous Liquid Splash/Spray						
CPE						
Ankle	No	White	XL	International Enviroguard	**782T28**	1000
Ankle	Yes	White	Universal	International Enviroguard	**782T36**	300
Ankle	Yes	Blue	XL	International Enviroguard	**782T39**	300
Ankle	Yes	Blue	XL	International Enviroguard	**782T40**	1000
Ankle	Yes	Blue	Universal	International Enviroguard	**782T41**	300
Laminated Non-Woven						
Ankle	Yes	White	L	International Enviroguard	**782T50**	300
Ankle	Yes	Blue	L	International Enviroguard	**782T51**	300
Ankle	Yes	White	XL	International Enviroguard	**782T52**	300
Ankle	Yes	Blue	XL	International Enviroguard	**782T53**	300
Microporous Film Laminate						
Knee	Yes	White	L	Dupont	**29EU93**	100
Knee	Yes	White	M	Dupont	**29EU94**	100
Knee	Yes	White	S	Dupont	**29EU95**	100
Knee	Yes	White	XL	Dupont	**29EU96**	100
Mid-Calf	No	White	Universal	Kimberly-Clark	**2WXC7**	400
Ankle	No	White	Universal	Kimberly-Clark	**2WXC8**	400
Ankle	No	White	2XL	Kimberly-Clark	**2WXC9**	400
Knee	No	White	Universal	Kimberly-Clark	**3MZF6**	200
Knee	No	White	2XL	Kimberly-Clark	**3MZF7**	400
Boot & Shoe Covers for Non-Hazardous Dry Particulates & Non-Hazardous Liquid Splash						
Polyethylene						
Mid-Calf	No	Blue	XL	Cellucap	**22CT86**	300
Polypropylene						
Ankle	No	White	XL	Cellucap	**34G186**	300
Polypropylene/Vinyl						
Mid-Calf	Yes	White	XL	Cellucap	**22CT87**	200
Boot & Shoe Covers with Bloodborne Pathogen Resistance for Non-Hazardous Dry Particulates & Non-Hazardous Liquid Splash						
Polyethylene Coated Polypropylene						
Ankle	Yes	Gray	Universal	Dupont	**24AF86**	200
Mid-Calf	Yes	Gray	Universal	Dupont	**24AF87**	100

12Z599

410X62

Chemical Protective Boot & Shoe Covers & Shrouds

Help protect workers and footwear from hazardous dry particulates, larger in size than aerosols and include dust and dirt. Also provide moderate-chemical splash and spray protection from organic and inorganic acids and bases, solvents, and salts found in industrial cleaning applications. **Boot and Shoe Covers** are worn over personal footwear and protect it from incidental contact with hazardous and non-hazardous substances. **Boot Shrouds** cover the opening at the top of the boot to prevent liquids and other materials from falling into the boot.

Cover Material	Height Range	Includes Slip Resistant Sole	Color	Size	Item No.	Pkg. Qty.
Boot & Shoe Covers for Hazardous Dry Particulates & Moderate Chemical Splash/Spray						
Polyolefin	Ankle	Yes	Blue	Regular	**12Z599**	200
Polyolefin	Knee	Yes	Yellow	Regular	**12Z602**	100
Polyolefin	Knee	Yes	Blue	L	**12Z601**	200
Polyolefin	Knee	Yes	Yellow	L	**12Z603**	100
Polyolefin	Mid-Calf	Yes	Yellow	L	**410X62**	200
Boot Shrouds for Hazardous Dry Particulates & Moderate Chemical Splash/Spray						
Polyolefin	Mid-Calf	No	Blue	Universal	**410X63**	100

4GMT2
(Contents not included.)

4GMT5
(Contents not included.)

Dispensers

Hinged lid eases 1-handed access to bouffant caps, hairnets, shoe/boot covers, and other personal protective equipment. Dispensers are clear to easily view contents and know when to refill. For use on desktop or mount on wall.

Description	H	W	D	Item No.
Universal Dispensers				
PETG	7 in	4 ¾ in	4 ½ in	**3UZG1**
PETG	7 in	4 ¾ in	4 ½ in	**4GMT2**
PETG	10 ½ in	8 in	3 ½ in	**4GMT3**
PETG	12 ⅜ in	12 in	5 ½ in	**4GMT4**
PETG	12 ⅜ in	11 ⅞ in	5 ½ in	**3UZG2**
Acrylic	9 ½ in	11 ½ in	9 ½ in	**30ZE62**
Universal Dispensers with 4 Labels (Beard Covers, Bouffants, Hairnets, and Shoe Covers)				
PETG	10 in	10 in	10 in	**3UZG3**
PETG	12 in	12 in	12 in	**3UZG4**
PETG w/2 Compartments	14 in	15 ¾ in	9 ¼ in	**3UZG6**
PETG w/3 Compartments	14 in	15 ¾ in	9 ¼ in	**3UZG7**
PETG w/2 Compartments	18 in	19 ⅝ in	11 ⅝ in	**3UZG5**
Dispensers with "Shoe Covers" Imprint				
PETG	14 in	12 in	8 in	**4GMT5**
Acrylic	15 ½ in	12 in	8 in	**30ZE63**
Hairnet Dispenser				
Acrylic	10 ½ in	8 in	3 ½ in	**3UZF9**

Chemical-Resistant Bib-Style Aprons

PolyCo Ansell Condor

Economy Chemical-Resistant—VR polyolefin aprons resist industrial concentrations of hydrofluoric, hydrochloric, sulfuric, and nitric acids and are FDA Approved for indirect food contact. Vinyl aprons resist oils, fats, and chemicals. Urethane aprons offer light-weight comfort and long wear. PVC and PVC blends aprons provide superior flexibility and resist grease, fats, oils, punctures, and abra-sion. Nitrile aprons are resistant to oil, fuel, and hydrocarbons.

Premium Chemical-Resistant—SBR rubber aprons are abrasion resistant and protect against mild solvents, chemicals, and acids. Neoprene and Hycar aprons protect against a wide range chemicals, acids, oils, grease, and animal fats while maintaining flexibility over a wide temperature range.

A. 12Y507

B. 4JY17

E. 3XE79

F. 1N872

K. 4T295

Key	Description	Color	L	W	Brand	Mfr. Model	Item No.	Pkg. Qty.
Economy Chemical-Resistant Aprons								
VR Polyolefin								
A	4 mil. Die-Cut with Cutout Neck and Waist Ties	Blue	45 in	35 in	PolyCo	46400	**12Y507**	100
		Blue	55 in	35 in	PolyCo	46500	**12Y508**	100
	6 mil. Die-Cut with Cutout Neck and Waist Ties	Blue	45 in	35 in	PolyCo	46401	**12Y509**	100
		Blue	55 in	35 in	PolyCo	46501	**12Y510**	100
Vinyl								
B	6 mil. Die-Cut with Cutout Neck and Waist	Blue	44 in	33 in	Alphatec	56-015	**5EMD1**	1
	6 mil. Raw Edge with Neck and Waist Ties	Blue	44 in	33 in	Alphatec	56-009	**4JY17**	1
	8 mil. Sewn Edge with Neck and Waist Ties	Blue	44 in	33 in	Alphatec	56-001	**5EMC4**	1
		Blue	54 in	33 in	Alphatec	56-001	**5EMC5**	1
	6 mil. Sewn Edge with Neck and Waist Ties	Blue	44 in	33 in	Alphatec	56-007	**3RYT3**	1
		Blue	47 in	33 in	Alphatec	56-007	**5EMC6**	1
		Blue	49 in	33 in	Alphatec	56-007	**3RYT4**	1
		Blue	54 in	33 in	Alphatec	56-007	**3RYT5**	1
C	8 mil. Raw Edge with Neck and Waist Ties and Heat Sealed PVC Grommets	Blue	45 in	35 in	Condor	—	**1N866**	12
	6 mil. Raw Edge with Neck and Waist Ties	Blue	47 in	33 in	Alphatec	56-009	**5EMC7**	1
		Blue	49 in	33 in	Alphatec	56-009	**5EMC8**	1
		Blue	54 in	33 in	Alphatec	56-009	**5EMC9**	1
	6 mil. Die-Cut with Cutout Neck and Waist	Blue	39 in	33 in	Alphatec	56-015	**5EMD0**	1
Urethane/Nylon Lining								
D	7 mil. Serged Edge with Neck and Waist Ties, and Brass Grommets	Yellow	48 in	35 in	Alphatec	56-600	**5EMD3**	1
PVC/Polyester Lining								
E	18 mil. Raw Edge with Attached Neck Strap, Waist Ties, and Brass Grommets	Green	48 in	35 in	Condor	—	**3XE79**	1
PVC/Nylon Lining								
F	12 mil. Raw Edge with Attached Neck Strap, Waist Ties, and Heat Sealed PVC Grommets	Yellow	45 in	35 in	Condor	—	**1N872**	1
PVC								
G	18 mil. Raw Edge with Attached Neck Strap, Waist Ties, and PVC Grommets	Blue	50 in	35 in	Condor	—	**3BU46**	1
H	18 mil. Serged Edge with Attached Neck Strap, Waist ties, and Plastic Grommets	White	44 in	33 in	Alphatec	56-101	**3RYU8**	1
Urethane/Nylon Lining								
H	7 mil. Serged Edge with Neck and Waist Ties, and Brass Grommets	Blue	48 in	35 in	Alphatec	56-601	**5EMD5**	1
Nitrile/Polyester Lining								
I	16 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45 in	35 in	Condor	—	**4T296**	1
Premium Chemical-Resistant Aprons								
SBR Rubber/Polyester								
K	16 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45 in	35 in	Condor	—	**4T299**	1
	29 mil. Sewn Edge with Attached Neck Strap and Waist Ties	Black	45 in	35 in	Condor	—	**4T295**	1
Neoprene								
L	12.5-oz. Sewn Edge with Attached Neck Strap, Waist Ties, and Metal Grommets	Yellow	45 in	35 in	Alphatec	56-400	**3RYU7**	1
Hycar/Waterproof Lining								
M	18-oz. Sewn Edge with Attached Neck Strap, Waist Ties, and Metal Grommets	Yellow	45 in	33 in	Alphatec	56-510	**3RYT7**	1
		Black	45 in	33 in	Alphatec	56-512	**3RYT6**	1

Ansell

Endurosaf Aprons

Flexible, lightweight, durable material is abrasion- and puncture-resistant. Resists fats, oils, grease, and chemicals. Include adjustable, sealed neckstrap. Sealed side-ties can be secured in either front or back. Comply with FDA for food contact.

Color	L	W	Mfr. Model	Item No.
Blue	45 in	35 in	56-802	**3RYU2**
	50 in	35 in	56-802	**5EMD9**
Yellow	50 in	35 in	56-801	**5EMD8**

Kimberly-Clark PROFESSIONAL

KleenGuard A70 Apron and Smock

The polyethylene-coated fabric protects when handling hazardous dry particulates and during exposure to hazardous light chemical splash/spray. Garments resist many water-based liquids, greases, and oils. **Apron** comes with a loop strap neck and tie waist closure. **Smock** has back neck snaps and a tie waist closure.

3PLG8

42EP65

Overall Length	Size	Color	Mfr. Model	Item No.
Apron				
44 in	Universal	Yellow	97790	**3PLG8**
Smock				
44 in	Universal	Yellow	9829	**42EP65**

NATIONAL SAFETY APPAREL®

Cryogenic Aprons

- Meet EN 511 standard

Lightweight breathable protection for ultracold environments and cryogenic atmospheres. Bib-style aprons are waterproof for full frontal splash protection. Adjustable neck and waist straps have quick disconnects for easy on/off. Find Cryogenic Gloves on page 1705.

L	W	Mfr. Model	Item No.
36 in	24 in	A02CRC24X36	**2AFB2**
42 in	24 in	A02CRC24X42	**2AFA2**
48 in	24 in	A02CRC24X48	**2AFB1**

1N856

11G029

Chemical-Resistant Aprons and Gowns

COAT AND SMOCK APRONS

Vinyl Coat Aprons—Condor aprons feature heat-sealed seams, bound collar, elastic wrists, and nylon ties with breakaway snaps at back of neck and waist.

Ansell aprons are static and corrosion resistant, with no exposed elastic or metal parts. 6-mil models feature plain edge, closed back, and elastic cuff. 8-mil models feature heat-sealed seams.

Neoprene Smock Aprons—Sewn-edge aprons have cotton ties for adjustable back closure, silver-plated grommets, and elastic wrists.

DISPOSABLE BARRIER GOWNS

VR Polyolefin—Provide full frontal body protection from chemical splashes. Full-length sleeves with either an integral thumb loop or elastic cuff. Heat-sealed seams.

Description	Thickness	L	W	Color	Mfr. Model	Item No.	Pkg. Qty.
Vinyl Coat Aprons							
Condor							
Disposable Sleeve Apron	8 mil	55 in	54 in	Blue	—	**1N860**	1
		58 in	55 in		—	**1N856**	1
Alphatec							
Chemical-Splash Resistant Apron	6 mil	48 in	48 in	Blue	56-903	**1XKK9**	1
		53 in	52 in		56-903	**1XKL1**	1
		54 in	56 in		56-903	**1XKL2**	1
		54 in	60 in		56-903	**1XKL3**	1
	8 mil	48 in	48 in		56-910	**3RYV6**	1
		53 in	52 in		56-910	**3RYV5**	1
		54 in	55 in		56-910	**3RYV4**	1
		54 in	60 in		56-910	**3RYV7**	1
Neoprene Smock Aprons							
Condor							
Chemical Resistant Sleeve Apron	11 mil	46 ½ in	48 in	Yellow	—	**11G029**	1
		46 ½ in	50 in		—	**11G030**	1
		46 ½ in	52 in		—	**11G031**	1
		46 ½ in	54 in		—	**11J844**	1
VR Polyolefin							
PolyCo							
Gown with Thumb Loops	4 mil	45 in	38 in	Blue	42400	**12Y494**	50
		50 in	42 in		42500	**12Y495**	50
		55 in	45 in		42600	**12Y496**	50
Gown with Elastic Cuffs		55 in	38 in		42480	**12Y497**	50
		55 in	42 in		42580	**12Y498**	50
		60 in	45 in		42680	**12Y499**	50
		45 in	27 in		42450	**49NT88**	50
		50 in	28 in		42550	**49NT89**	50
		50 in	30 in		42650	**49NT90**	50
Gown with Trough Bottom		50 in	30 in		43650	**49NT91**	50
		45 in	27 in		43450	**49NT92**	50
		50 in	28 in		43550	**49NT93**	50

1N874

Denim Aprons

Karewear brand aprons feature break-away straps. Condor brand aprons have sewn-in straps. Ansell brand aprons have 30"L grommeted ties at neck and waist.

Description	L	W	Color	Brand	Mfr. Model	Item No.
Aprons						
10-oz. Denim with Breakaway Straps, Bib, and Side Pockets	36 in	24 in	Blue	Karewear	500D	**3RYP8**
12-oz. Denim with Sewn-In Straps, No Pockets	36 in	27 in	Blue	Condor	—	**1N880**
12-oz. Denim with Sewn-In Straps, 3 Pockets	36 in	28 in	Blue	Condor	—	**1N874**
14-oz. Denim with Sewn-In Straps, Metal Grommets, and Bib Pocket	36 in	28 in	Blue	Alphatec	57-003	**3RYT8**

8CV18

3RKU4

12Z609

Disposable Aprons and Barrier Gowns

DISPOSABLE PROTECTIVE APRONS

Light-duty aprons are USDA accepted and ideal for food processing applications.

POLY-COATED POLYPROPYLENE GOWNS

Tie at neck and waist. Elastic wrist style offers barrier protection from fluids.

POLYETHYLENE TIE GOWNS

1-pc. pullover style has vented neck, open back, and die-cut tiebacks. Full-length sleeves with a thumb loop extension. Sealed shoulder seams.

POLYPROPYLENE PROTECTIVE CLOTHING

Economical alternative for disposable clothing in less demanding environments. Lightweight items offer a reliable barrier against dust and splash. Medium-Weight items offer protection from dirty, nonhazardous conditions.

Description	Color	L	W	Item No.	Pkg. Qty.
Condor Disposable Protective Aprons					
1 mil. Sealed Edge with Cutout Neck and Waist Ties	White	46 in	28 in	**8CV18**	100
1 mil. Raw Edge with Cutout Neck and Waist Ties	White	42 in	24 in	**5T316**	100
1. 25 mil. Raw Edge with Cutout Neck and Waist Ties	White	46 in	28 in	**5T315**	100
1. 75 mil. Sealed Edge with Cutout Neck and Waist Ties	White	46 in	28 in	**9F378**	100
Ansell Disposable Protective Aprons					
1.5 mil. Neck and Waist Ties	White	46 in	27 in	**3RYP2**	100
	White	55 in	27 in	**3RYP3**	100
	Blue	46 in	27 in	**3RYP4**	100
	Blue	55 in	27 in	**3RYP5**	100
Cellucap Poly-Coated Polypropylene Gowns					
Elastic Wrists with Neck and Waist Ties	White	44 in	54 in	**3RKU4**	1
	White	52 in	59 ½ in	**3RKU5**	1
Knit Wrists with Neck and Waist Ties	White	44 in	54 in	**3RKU6**	1
	White	52 in	59 ½ in	**3RKU7**	1
PolyCo Polyethylene Tie Gowns					
Gown with Thumb Loops, Dispenser Boxed and Individually Bagged	Blue	48 in	40 in	**12Z609**	15
	White	48 in	40 in	**12Z610**	15
Gown with Thumb Loops, Bulk Packed and Individually Bagged	Blue	48 in	40 in	**12Z611**	100
	White	48 in	40 in	**12Z612**	100

Description	Fabric Weight	Seam Style	Size	Color	Item No.	Pkg. Qty.
Condor Waist Ties and Thumb Loops, Lightweight						
Waist Ties and Thumb Loops	Polypropylene Barrier Gown	Welded	Universal	Blue	**32KF55**	15
Condor Bib-Style Apron Bound Neck, Waist Ties Lightweight						
Bound Neck, Waist Ties	Polypropylene Bib-Style Apron	Serged	27¾"W x 35½"L	White	**2KTT8**	100

Unisex Lab Coats and Frocks

- Non-sterile
- Serged seams

Soft, breathable, and lightweight disposable garments offer comfort and enhanced range of motion. Spunbond-meltblown-spunbond (SMS) fabric. Economical protection from dust, dirt, nonhazardous dry particles and light liquid splash. Lab coats have front pockets; frocks do not have pockets.

Closure Type	Cuff Style	Collar Style	No. of Pockets	▶CHOOSE: Size	▶CHOOSE: Color	Item No.	Pkg. Qty.
Lab Coat							
Snaps	Open	Mandarin	2	M, L, XL, 2XL, 3XL, 4XL	Blue	**J7267**	30
Snaps	Knit	Knit	3	L, XL, 2XL, 3XL, 4XL	Blue, White	**K7318**	30
Lab Frock							
Snaps	Elastic	Mandarin	0	S, M, L, XL, 2XL, 3XL, 4XL	White	**K7319**	30
Zipper	Elastic	Mandarin	0	M, L, XL, 2XL, 3XL, 4XL	White, Blue	**K7320**	30

K7318

K7320

H2308

D5799

J6437

Disposable Lab Coats

Economical solution for disposable clothing and for use in less demanding environments. Breathable fabric offers protection against dry particles and nonhazardous water-based aerosols. Coats with knit or elastic cuffs help keep cuffs from snagging objects and can provide more protection from airborne particles. Serged seams. All coats have a collar (except Basic SMS coats) for a more comfortable fit.

Basic SMS—The Spun-Bonded Melt-Blown Synthetic (SMS) fabric is a polypropylene material constructed of 3 durable layers that resists abrasion and wear.

Polypropylene—Durable polypropylen material resists wear and abrasion. H2308 has a hook-and-loop closure for easy donning/doffing.

Tyvek 400—Fabric features no films or laminates to abrade or wear away. Protection is built into the fabric itself, and it provides better protection than microporous film fabrics even after wear and abrasion.

Closure Type	Cuff Styles	No. of Pockets	▶CHOOSE: Size	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
Basic SMS							
Snaps	Knit	3	M, L, XL, 2XL, 3XL, 4XL	White	Condor	**H8190**	1
				Blue		**H8191**	
Polypropylene							
4 Snaps	Elastic	0	L, XL, 2XL, 3XL	White	Kimberly-Clark	**D5799**	50
Buttons		2	S, M, L, XL, 2XL, 3XL, 4XL, 5XL		Condor	**H8179**	30
		3	S, M, L, XL, 2XL			**H8183**	
		2	S, M, L, XL, 2XL, 3XL	Blue		**H8180**	
			L, XL, 2XL, 3XL, 4XL	Red		**H8182**	
Hook-and-Loop		0	M, L, XL, 2XL, 3XL	White	Cellucap	**H2308**	50
Snaps	Open Wrist	2	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White, Blue	Condor	**G6098**	25
				White		**D2182**	
Tyvek 400							
Snaps	Elastic	0	S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL	White	Dupont	**J6437**	30
		2	5XL, 6XL, 7XL, M, L, XL, 2XL, 3XL, 4XL			**D2242**	
		0	S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL			**J6437**	

Unisex/Mens Staff Length Lab Coat

Performance poplin-blend coat features a 5-button front with left chest pocket and 2 lower pockets. Side vent openings provide easy movement.

▶CHOOSE: Size	Color	Mfr. Model	Item No.
S, M, L, XL, 2XL, 3XL, 4XL	White	MDT12W	**D2349**

Polypropylene Protective Clothing

Economical alternative for disposable clothing in less demanding environments. Lightweight items offer a reliable barrier against dust and splash. Medium-Weight items offer protection from dirty, nonhazardous conditions.

D2175

D2179 (Pants not Included)

Fabric Weight	Seam Style	▶CHOOSE: Size	▶CHOOSE: Color	Hazard Protection Type	Item No.	Pkg. Qty.
Coveralls						
Zipper Front, Open Wrists and Ankles						
Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Non-Hazardous Dry Particulates	**D2175**	25
Medium Weight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White, Blue	Non-Hazardous Dry Particulates	**G6091**	25
Zipper Front, Elastic Wrists and Ankles						
Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Non-Hazardous Dry Particulates	**D2176**	25
Medium Weight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White, Blue	Non-Hazardous Dry Particulates	**G6092**	25
Hooded Coveralls						
Zipper Front, Elastic Face, Wrists and Ankles						
Lightweight	Serged	M, L, XL, 2XL, 3XL, 4XL	White	Non-Hazardous Dry Particulates	**D2177**	25
Zipper Front, Elastic Face, Wrists and Boot Covers						
Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL	White	Non-Hazardous Dry Particulates	**D2178**	25
Shirts						
Long-Sleeve, Snap Front, Open Wrists						
Lightweight	Serged	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	Non-Hazardous Dry Particulates	**D2179**	25
Pants						
Elastic Waistband, Open Ankles						
Lightweight	Serged	S/M, L/XL, 2XL/3XL, 4XL/5XL	White	Non-Hazardous Dry Particulates	**D2181**	25

J4503

J4523

J4506

J4509

J4512

Ansell

Microchem by AlphaTec Protective Coveralls

Each style has elastic ankles and cuffs.

68-1500

Breathable design help reduce the risk of heat stress and is proven to filter 100% of particles less than 3 microns. Ideal for applications involving stripping, clear up or handling of asbestos, general maintenance, construction and contract cleaning. Serged seams combine strength with a particle barrier.

68-1500 PLUS FR

Flame retardant and anti-static SMMS nonwoven fabric provides a good barrier to particulates and low hazard liquid sprays or splashes. Comfortable design allows full freedom of movement when worn over heat and flame protective clothing. Strong serged seams provide a particle barrier.

68-1800

Protects from low hazard liquid spray, splashes, and particles protection. Bound seams provide superior strength and a liquid and particle barrier. Low linting to help reduce the risk of fiber contamination in some critical areas.

68-2000

Helps provide both protection and comfort with exceptional liquid and particulate protection. Bound seams offer excellent strength and a liquid and particle barrier. Meet ASTM F1761 and EN 14126:2003 resistance to penetration of blood, body fluids and blood-borne pathogens.

68-2000 COMFORT

Specifically designed for those working in warmer climates or working environments to help reduce the possibility of heat stress. Bound seams offer superior strength, and a liquid, and particle barrier.

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
68-1500					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH15-S-	**J4503**	25
Hooded			WH15-S-	**J4504**	25
Hooded, Attached Boots			WH15-S-	**J4505**	25
68-1500 Plus FR					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue	68-1500	**J4523**	25
Hooded			NR17-S-	**J4524**	25
68-1800					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH18-B-	**J4506**	25
Hooded	M, L, XL, 2XL, 3XL, 4XL, 5XL		WH18-B-	**J4508**	25
Hooded, Attached Skid-Resistant Boots	S, M, L, XL, 2XL, 3XL, 4XL, 5XL		WH18-B-	**J4507**	25
68-2000					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH20-B-	**J4509**	25
Hooded			WH20-B-	**J4511**	25
Hooded, Attached Skid-Resistant Boots			WH20-B-	**J4510**	25
68-2000 Comfort					
Collared	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	White	WH20-B-	**J4513**	25
Hooded			68-2000	**J4512**	25

H3322

D2244

Basic Protective Clothing

ProShield 10—Disposable garments are made from SMS polypropylene fabric and provide protection from dry particulates in general maintenance, janitorial/sanitation, and other dirty work. Sewn seams.

ProShield 60—Proprietary microporous technology provides an effective barrier against non-hazardous particles, light liquid splash and aerosols. Ideal for applications including automotive refinishing, waste cleanup and remediation.

▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.	Pkg. Qty.
ProShield 10				
Collared Coveralls - Zippered Front, Open Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, White	PB120S	**H3322**	25
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, White	PB125S	**H3333**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, White	PB127S	**H3337**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Attached Skid-Resistant Boot Covers				
M, L, XL, 2XL, 3XL, 4XL, 5XL	Blue, White	PB122S	**H3327**	25
ProShield 60				
Collared Coveralls - Zippered Front, Open Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	White	NG120S	**D2207**	25
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	White	NG125S	**D2212**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL, 5XL	White	NG127S	**D2243**	25
Hooded Coveralls - Zippered Front, Elastic Face, Wrists and Attached Skid-Resistant Boot Covers				
M, L, XL, 2XL, 3XL, 4XL, 5XL	White	NG122S	**D2244**	25

Disposable Protective Clothing

TYVEK 400

Fabric is comfortable and lightweight while providing puncture- and tear-resistant protection in wet or dry applications without restricting movement when stretching and bending. Offers inherent barrier to particles down to 1 micron even after abrasion. Coveralls meet OSHA requirements for asbestos and lead abatement.

TYVEK 400D

Fabric offers the high protection of Tyvek on the front of the garment, while the back is made from highly breathable DuPont ProShield fabric to increase breathability and help reduce heat stress. Thumb loops on sleeve ends and elastic waists help keep garments in place when donning gloves and performing strenuous activities. Excellent for use in demanding applications that have limited frontal exposure to hazardous particles and liquid splash. Both fabrics are low-linting with antistatic properties. White front and blue back.

Coveralls—Zipper-front coveralls with comfort fit design for greater range of movement.

Collared Shirts—Long-sleeve shirt with 4 plastic snaps and serged seams.

Pants—Feature elastic waistband and serged seams.

Collared Lab Coats—Feature 5-snap front with a storm flap, serged seams, and set-in sleeves that allow greater freedom of movement.

Pullover Hood—Elastic opening hood features serged seams and is shoulder-length to offer greater coverage.

Bib-Style Apron—Provides full front coverage and features bound neck with long ties and bound seams.

Sleeves—Feature serged seams.

Shoe/Boot Covers—Feature serged seams. Skid-resistant 6LY43 and 4LUR4 prevent slipping.

Tyvek 400 Collared Coveralls - Open Wrists and Ankles D2193

Tyvek 400 Hooded Coverall D2199

▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
Tyvek 400				
Collared Coveralls - Open Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL	White	TY120S	**D2193**	6
M, L, XL, 2XL, 3XL, 4XL	White	TY120S	**D2231**	25
Collared Coveralls - Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL	White	TY125S	**D2195**	6
M, L, XL, 2XL, 3XL, 4XL	White	TY125S	**D2233**	25
Hooded Coveralls - Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL	White	TY127S	**D2197**	6
5XL, M, L, XL, 2XL, 3XL, 4XL	White	TY127S	**D2198**	25
Hooded Coveralls - Elastic Wrists and Ankles and Skid-Resistant Boot Covers				
M, L, XL, 2XL, 3XL, 4XL	White	TY122S	**D2199**	6
M, L, XL, 2XL, 3XL, 4XL	White	TY122S	**D2237**	25
Collared Shirts - Snap Front, Open Wrists				
L, XL, 2XL, 3XL	White	TY303S	**D2202**	12
M, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TY303S	**D2208**	50
Pants - Elastic Waistband, Open Ankles				
M, XL, 3XL	White	TY350S	**D2203**	12
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TY350S	**D2213**	50
Collared Lab Coats - Snap Front, Open Wrists				
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TY210S	**D2239**	30
Collared Lab Coats - Snap Front, Open Wrists, 2-Pockets				
M, L, XL, 2XL, 3XL, 4XL	White	TY212S	**D2204**	8
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TY212S	**D2242**	30
Pullover Hood				
Universal	White	TY657S	**4T063**	100
Bib-Style Apron				
Universal	White	TY273B	**4T061**	100
Sleeves - Elastic Top and Wrist				
Universal	White	TY500S	**4T062**	200
Shoe Covers, 5" High, Elastic Top				
Universal	White	TY450S	**5WYC9**	200
Shoe Covers, Skid-Resistant, 5" High, Elastic Top				
Universal	Gray	FC440	**6LY43**	200
Boot Covers, Skid-Resistant, 18" High, Elastic Top				
Universal	Gray	FC454S	**4LUR4**	100
Boot Covers, 18" High, Elastic Top				
L, XL	White	TY454S	**D2215**	100
Tyvek 400D				
Collared Coveralls - Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL	White	TD125S	**G7263**	25
Hooded Coveralls - Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL, 4XL	White	TD127S	**G7262**	25

Tyvek 400 Bib-Style Apron and Sleeves 4T061 and 4T062

Tyvek 400D Collared Coverall G7263

Coveralls
D1428

Frock
D1434

Hooded Coveralls
D1429
(Boot covers sold separately)

Lab Coat
D1435

Bouffant
5WYL9

Shoe Covers
D9839

Boot Covers
D2224

DUPONT®

Tyvek IsoClean Controlled Environment Clothing

- ISO Class 5 to 8
- White color

Protective material creates an effective barrier against dry particulates, nonhazardous liquids, and microorganisms.

Available options include clean processed and sterilized, clean processed, and sterile. Individually packaged. Ideal for critical environments. A bulk packaged option is also available. Bound-seam garments provider a higher protection level than serge-seam garments.

▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
Tyvek IsoClean - Clean Processed, Sterilized, and Individually Packaged				
Coveralls with Front Zipper Closure, Raglan Sleeves, Covered Elastic Wrists and Ankles, Bound Seams				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC182BCS	**D1428**	25
Frock with Mandarin Collar, 6-Snap Front, Covered Elastic Wrists, Bound Seams				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC270BCS	**D1434**	30
Bouffant, Serged Seams				
M	White	IC729SCS	**5WYN1**	250
Full-Face Hood with Side Ties, Back Snap, Bound Seams				
Universal	White	IC668BCS	**1MKV8**	100
18"L Sleeve Protector with Covered Elastic Wrists, Bound Seams				
Universal	White	IC501BCS	**5WYL7**	100
18"H Boot Covers with Elastic Leg and Ankles, Gripper PVC Sole, Serged Seams				
S, M, L, XL, 2XL	White	IC447SCS	**D2216**	100
18"H Boot Covers with Covered Elastic Leg Opening, Ties at Ankle, Gripper PVC Sole, Bound Seams				
M, L, XL	White	IC458BCS	**D7998**	100
Tyvek IsoClean - Clean Processed and Individually Packaged				
Coveralls with Front Zipper Closure, Raglan Sleeves, Covered Elastic Wrists and Ankles, Bound Seams				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC182B0C	**D2218**	25
Frock with Mandarin Collar, 6-Snap Front, Covered Elastic Wrists, Bound Seams				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC270B0C	**D7996**	30
Bouffant Headband, Serged Seams				
M	White	IC729S0C	**5WYN0**	250
Hood with Full Face Opening, Ties at Sides, Bound Seams				
Universal	White	IC668B0C	**5WYL8**	100
18"H Boot Covers with Elastic Leg and Ankles, Gripper PVC Sole, Serged Seams				
M, L, XL	White	IC447S0C	**D2219**	100
18"H Boot Covers with Covered Elastic Leg Opening, Ties at Ankle, Gripper PVC Sole, Bound Seams				
M, L, XL	White	IC458B0C	**D7997**	100
Tyvek IsoClean - Bulk Packaged - Serged Seams				
Coveralls with Front Zipper Closure, Elastic Wrists and Ankles				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC181S00	**D1426**	25
Coveralls with Attached Hood, Front Zipper Closure, Elastic Wrists and Ankles				
M, L, XL, 2XL, 3XL	White	IC180S00	**D1429**	25
Frock with Mandarin Collar, 6-Snap Front, Elastic Wrists				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC263S0B	**D1431**	30
Frock with Front Zipper Closure, Raglan Sleeves, Elastic Wrists				
S, M, L, XL, 2XL, 3XL, 4XL	White	IC264S0B	**D1433**	30
Lab Coat with Laydown Collar, 5-Snap Front Closure, Raglan Sleeves, Open Wrists, 3-Pockets				
M, L, XL, 2XL	White	IC224S0B	**D1435**	30
Bouffant, Serged Seams				
M	White	IC729S0B	**5WYL9**	250
5"H Shoe Covers with Gripper PVC Sole, Elastic Opening				
M, L, XL	White	IC451S0B	**D9839**	100
18"H Boot Covers with Gripper PVC Sole, Elastic Opening				
M, L, XL	White	IC447S0B	**D2224**	100
15"H Boot Covers with PVC Sole, Elastic Opening				
M, L, XL	White	IC444S0B	**D2225**	200

Boot Covers
D2226

Mask with Ear Loops
1MKW6
(Hairnet Sold Separately)

DUPONT® PolyCo ONGUARD AlphaProTech Condor

Shoe/Boot Covers and Masks

ProShield Shoe and Boot Covers—Durable shoe and boot covers provide slip-resistance in both wet and dry conditions.

Sierra Masks—Bacteria and particle filtration efficacy.

Boot Covers—Boot covers help protect your footwear in areas with biological and chemical liquids. Elastic top provides a secure fit and the tall height accommodates most boots.

- Calf height

▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Brand	Item No.	Pkg. Qty.
ProShield 30 Shoe and Boot Covers - Bulk Packaged - Serged Seams					
5½"H Shoe Covers with Elastic Opening, Defined Toe and Heel, Self Fabric Sole					
L, XL	White, Blue	PE440S00	Dupont	**D9837**	200
13"H Boot Covers with Elastic Leg and Ankle Opening, Self Fabric Sole					
L, XL	White	PE444S00	Dupont	**D2226**	100
ProShield 70 Shoe Covers - Bulk Packaged - Serged Seams					
8¼"H Shoe Covers with Elastic Ankle Opening, Slip Resistant					
Universal	Gray	P3450SGY000200LG	Dupont	**24AF86**	200
Sierra Masks - Bulk Packaged					
7" General with Ear Loops					
Universal	Blue	ML7330BH	Dupont	**1MKW6**	500
9" Antifog with Tyvek Ties					
Universal	White	ML7370BH	Dupont	**5WYN3**	250
Boot Covers					
Regular	Yellow	49355	PolyCo	**D2227**	100
L	Yellow	49555	PolyCo	**D2227**	100
M, L, XL, 2XL	Yellow	97590	Onguard	**D7724**	1
2XL	Black	BT-C1X14-B	Alpha Protech	**29DZ57**	200
Universal	White	2RUZ3	Condor	**2RUZ3**	50
Universal	White	2KTU4	Condor	**2KTU4**	200

INTERNATIONAL ENVIRO GUARD

Body Filter 95+ Protective Clothing

Disposable garbs provide protection from hazardous and noxious particulates. Fabric is breathable, abrasion-resistant, and moisture-wicking. Airflow permeability protects against heat buildup. White color. Serged seams.

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Collared Coveralls - Zipper Front, Elastic Wrists, Open Ankles			
M, L, XL, 2XL, 3XL, 4XL	4012	**D2183**	25
Collared Coveralls - Zipper Front, Elastic Wrists and Ankles			
M, L, XL, 2XL, 3XL, 4XL	4017	**D2185**	25
Hooded Coveralls - Zipper Front, Elastic Face, Wrists and Open Ankles			
M, L, XL, 2XL, 3XL, 4XL	4028	**D2187**	25
Hooded Coveralls - Zipper Front, Elastic Face, Wrists and Attached Boots			
M, L, XL, 2XL, 3XL, 4XL	4014	**D2189**	25
Sleeves - Elastic Tops and Wrists			
Universal	4065	**3HKJ4**	200
Shoe Covers			
Universal	4101	**3HKK2**	200
Shoe Covers - Skid Resistant			
Universal	4100	**3HKK3**	200

Hooded Coveralls D2189

Tyvek 800 J Chemical-Resistant Protective Clothing

- CE Category III Type 3-B, 4-B, 5-B, and 6-B; require additional taping for liquid-tightness

Garments combine freedom of movement, durability, and protection. They resist pressurized jets of low-concentration, water-based inorganic chemicals. Proprietary fabric is designed to offer chemical, liquid, and oil protection in very humid applications. Elastic around the face and a self-adhesive chin flap help make a tight seal around a full-face respirator.

▶CHOOSE: Size	Color	Mfr. Model	Item No.	Pkg. Qty.
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	White	TJ198T	**J6006**	25

Chemical-Resistant Protective Coveralls

Provide puncture- and tear-resistant protection in wet or dry applications without restricting movement.

Tychem 2000—Provide protection from light chemical splash and biohazards. Made from polyethylene-coated DuPont Tyvek.

Tychem 4000—Provide protection against a wide range of chemicals. Made from DuPont Tyvek fabric with Saranex 23-P lamination construction.

Tychem 2000 SFR—Protects against a range of chemicals and also provides secondary flame resistance when worn over FR garments like those made with DuPont Nomex.

Tychem 2000 D2252

Tychem 4000 D2259

▶CHOOSE: Size	Color	Seam Style	Mfr. Model	Item No.	Pkg. Qty.
Tychem 2000					
Collared Coveralls - Zippered Front, Open Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC120S	**D2248**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC120B	**D2249**	12
Collared Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC125S	**D2251**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC125B	**D2252**	12
Hooded Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	QC127S	**D2253**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC127B	**D2254**	12
Hooded Coveralls - Zippered Front, Elastic Wrists, Attached Boots					
M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	Yellow	Serged	QC122S	**D2255**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Bound	QC122B	**D2256**	12
Sleeves - Elastic Top and Wrists					
18"	Yellow	Bound	QC500B	**2RKT3**	200
Tychem 2000 SFR					
Hooded Chemical Resistant Coveralls					
S, M, L, XL, 2XL, 3XL, 4XL, 5XL, 6XL, 7XL	Green	Taped	QS127T	**J6007**	4
Tychem 4000					
Hooded Coveralls - Zippered Front, Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	White	Bound	SL127B	**D2257**	12
M, L, XL, 2XL, 3XL, 4XL	White	Taped	SL127T	**D2258**	6
Hooded Coveralls - Zippered Front, Elastic Wrists, Attached Socks					
M, L, XL, 2XL, 3XL, 4XL	White	Bound	SL122B	**D2259**	12
Sleeve Apron - Attached Sleeves, Elastic Wrists, Neck and Waist Ties					
Universal	White	Taped	SL278B	**5HH68**	12

Chemical-Resistant Protective Clothing

INTERNATIONAL ENVIRO GUARD

- ISO 6350 Liquid Chemical Penetration Test

ChemSplash 1 apparel provides a barrier against chemical exposure due to accidental liquid splash. Layered fabric with microporous layer lets heat and sweat vapor escape while protecting against dry particulates and liquids.

▶CHOOSE: Size	Color	Seam Style	Mfr. Model	Item No.	Pkg. Qty.
Coveralls					
Collared with Elastic Wrists and Open Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	7012YS	**D8412**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Taped	7012YT	**D2184**	6
Collared with Elastic Wrists and Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Taped	7013YT	**D2186**	6
Hooded with Elastic Face, Wrists, and Open Ankles					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	7015YS	**D8417**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Taped	7015YT	**D2188**	6
Hooded with Elastic Face, Wrists, and Attached Boots					
M, L, XL, 2XL, 3XL, 4XL	Yellow	Serged	7019YS	**D8418**	12
M, L, XL, 2XL, 3XL, 4XL	Yellow	Taped	7019YT	**D2191**	6
Sleeves					
Elastic Tops and Wrists					
18"	Yellow	Serged	7065YT	**6XMT9**	200

D2184

6XMT9

Tychem 5000 Chemical-Resistant Protective Clothing

- Meets ASTM D751

Multilayer barrier provides protection against potential exposure to 145 hazardous chemicals. Zipper front and double storm flap with hook-and-loop closure. Attached dual-layer gloves provide a high level of dexterity and tactility. Tan color.

D2261

▶CHOOSE: Size	Mfr. Model	Item No.	Pkg. Qty.
Hooded Coveralls - Elastic Wrists, Elastic Ankles			
M, L, XL, 2XL, 3XL, 4XL	C3127T	**D2261**	6
Hooded Coveralls - Elastic Wrists, Attached Socks			
M, L, XL, 2XL, 3XL, 4XL	C3122T	**D2262**	6
Collared Coverall - Attached Gloves, Socks, and Boot Flaps			
M, L, XL, 2XL, 3XL, 4XL	C3184T	**D2221**	6
Hooded Coveralls - Elastic Face, Attached Gloves and Socks			
M, L, XL, 2XL, 3XL, 4XL	C3185T	**D2222**	6

D2271

D2272

DUPONT®

Tychem 10000 Encapsulated Suits

- Taped Seam style
- Meet ASTM F1670, ASTM F1671

Level A Suits with Expanded Back—Feature vapor-tight seams for a higher level of skin protection and an expanded back that can accommodate a self-contained breathing apparatus (SCBA). These one-piece garments are worn with a breathing apparatus and come with integrated faceshields, hoods, and include socks and gloves or glove liners making them fully encapsulated for protection from dust, gases, and splashes.

Level A Suits with Expanded Back & Secondary Flame-Resistance—These suits have the same features as Level A Suits with Expanded Back and add flame-resistant clothing that is worn over a base layer of personal flame-resistant clothing (such as shirts and pants) when there is an intermittent or low risk of encountering fire. These garments are not a primary source of flame protection.

▶CHOOSE: Size	Color	Entry Location	Mfr. Model	Item No.
Level A Suits with Expanded Back				
Wide Face Shield and Attached Inner/Outer Gloves				
M, L, 2XL, 4XL, XL, 3XL	Yellow	Front	TK554TLY	**D2268**
M, L, 2XL, 4XL, XL, 3XL	Yellow	Rear	TK555TLY	**D2271**
Level A Suits with Expanded Back & Secondary Flame-Resistance				
Standard Face Shield and Attached Inner/Outer Gloves				
2XL, 3XL, 4XL, L, M, XL, S	Silver	Front	RF600TSV	**D2272**
Wide Face Shield and Attached Inner/Outer Gloves				
4XL, M, L, XL, 2XL, 3XL	Yellow	Front	TK612TLY	**G9235**
4XL, M, L, XL, 2XL, 3XL	Yellow	Rear	TK613TLY	**G9236**

Ansell

AlphaTec Breathable Chemical-Protective Clothing

Fabric provides protection for up to 70 chemicals and is breathable to help reduce heat stress. Garments are washable for long service life.

Jackets—Feature sealed seams and a double-front storm flap to help ensure protection from chemical spray. Have a heavy-duty zipper and hook-and-loop closures at the cuffs.

Bibbed Overalls—Garments have adjustable straps with parachute-style buckles and hook-and-loop closures at the cuffs.

Coveralls—Protect against arc flash, chemical splash, flash fire, and hot liquids. Feature sealed seams and a double-front storm flap to help ensure protection from chemical spray. Have a heavy-duty zipper and hook-and-loop closures at the cuffs.

K3047 (Bibbed overalls sold separately)

K3045

K3043

▶CHOOSE: Size	Color	Mfr. Model	Item No.
Jacket			
S, M, L, XL, 2XL, 3XL, 4XL	Red	66-660	**K3047**
S, M, L, XL, 2XL, 3XL, 4XL	Blue	66-670	**K3044**
Bibbed Overall			
S, M, L, XL, 2XL, 3XL, 4XL	Red	66-662	**K3049**
L, XL, 2XL, 3XL, S, M, 4XL	Blue	66-672	**K3045**
Coverall			
S, M, L, XL, 2XL, 3XL, 4XL	Red	66-667	**K3043**
L, XL, 2XL, 3XL, 4XL	Blue	66-677	**K3046**

Ansell

Microchem by AlphaTec Chemical Resistant Clothing

4000 Series—Provide an exceptional barrier against biological agents and organic and inorganic chemicals. Feature ultrasonically welded and taped seams for a strong liquid and particle barrier.

2300 Series—Protect against harmful chemicals and blood borne pathogens, while being lightweight and relatively strong and durable. Bound seams provide superior strength in a liquid and particle barrier.

J5427

J4515

▶CHOOSE: Size	Ankle Style	Closure Features	Color	Mfr. Model	Item No.	Pkg. Qty.
4000 Series Chemical Resistant Aprons						
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	—	—	Green	68-4000	**J5427**	20
4000 Series Chemical Resistant Coveralls						
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Elastic	Two-Way Zipper	Green	GR40-T-92-111	**J4518**	6
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Elastic	Storm Flap, Two-Way Zipper	Green	GR40-T-92-122	**J4519**	6
4000 Series Hooded Coveralls						
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Elastic	Two-Way Zipper	Green	GR40-T-92-103	**J5428**	6
2300 Series Collared Coveralls						
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Elastic	Storm Flap, Two-Way Zipper	Yellow	68-2300	**J5429**	25
2300 Series Hooded Coveralls						
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Elastic	Storm Flap, Two-Way Zipper	Yellow	YY23-B-92-111	**J4514**	25
S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Attached Socks	Storm Flap, Two-Way Zipper	Yellow	YY23-B-92-147	**J4515**	25

General Purpose Boots

General purpose rubber boots keep feet dry and protected from liquid splash, including water, oil, and chemicals. They are worn over socks when feet are in constant contact with water and chemicals where regular footwear would be damaged. They are generally taller than other footwear, allowing workers to tuck in pant legs and create a higher barrier between the liquid and legs.

PVC Knee E8007

Rubber Knee J6298

Safety Criteria	Toe Type	Static Dissipative	Midsole Material	▶CHOOSE: Footwear Material	▶CHOOSE: Boot Color	Brand	Item No.
Half Rubber-Dipped Neoprene Knee Boots for General Use							
Cold-Insulated, Composite Toe, Defined Heel, Non-Metallic, Oil-Resistant Sole, Puncture-Resistant (PR), Static Dissipative (SD), Waterproof	Composite	Yes	Purofort®	Purofort®, Purotex	Black	Dunlop	**K2321**
Cold-Insulated, Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	EVA	EVA, Rubber	Black	The Original Muck Boot Co.	**G5157**
Cold-Insulated, Defined Heel, Non-Metallic, Plain Toe, Waterproof	Plain	No	Purofort®	Purofort®	Black	Dunlop	**K2322**
Cold-Insulated, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Plain	No	EVA	EVA, Rubber	Black	The Original Muck Boot Co.	**G5146**
Defined Heel, Electrical Hazard (EH), Metatarsal Guard, Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	Rubber	Nitrile Butadiene Rubber, Rubber	Black, Yellow	Viking	**G3082**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	Rubber	Rubber	Black, Green	Viking	**G3077**
	Steel	No	Rubber	Rubber	Black	Lacrosse	**J2220**
Defined Heel, Electrical Hazard (EH), Steel Toe, Waterproof	Steel	No	Neoprene	Neoprene, Rubber	Black	The Original Muck Boot Co.	**J5993**
PVC Knee Boots for General Use							
—	Steel	No	PVC	PVC	Black	Tingley	**K2977**
	Plain	Yes	PVC	PVC	Black	Tingley	**K2976**
	Steel	No	Steel	PVC	Black	Tingley	**K2732**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Plain	No	EVA	EVA, PVC	Black	Honeywell Servus	**E8007**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	No	Steel	PVC, Steel	Black, Orange	Honeywell Servus	**E1715**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	PVC	PVC	Black	Honeywell Servus	**E4688**
Defined Heel, Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	No	Steel	Polyblend, Steel	Black	Dunlop	**E7181**
Defined Heel, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	No	Steel	PVC, Steel	Black	Dunlop	**D0322**
Rubber Knee Boots for General Use							
Composite Toe, Defined Heel, Non-Metallic, Oil-Resistant Sole, Waterproof	Composite	No	PVC	PVC	Brown, Tan	Tingley	**J6298**
	Composite	No	PVC	PVC	Black, Gray	Tingley	**K2258**
Defined Heel, Electrical Hazard (EH), Metatarsal Guard, Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	No	Rubber	Rubber	Red	Lacrosse	**J2053**
	Steel	No	Rubber	Rubber	Black	Lacrosse	**J2221**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	No	Rubber	Rubber	Black	Lacrosse	**J2054**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	Rubber	Rubber	Black	Lacrosse	**J2050**
Defined Heel, Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	Plain	No	PVC	PVC	Black, Gray	Tingley	**K2257**
Defined Heel, Oil-Resistant Sole, Plain Toe, Waterproof	Plain	No	Rubber	Rubber	Black	Alliance Mercantile Inc	**J4736**
Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Steel	No	GelFlex	GelFlex, UltraFlex	Blue, Gray	Baffin	**G5139**
	Steel	No	Rubber	Rubber	Black	Alliance Mercantile Inc	**J4735**
Defined Heel, Steel Toe, Waterproof	Steel	No	Rubber	Rubber	Black	Talon Trax	**D0325**
Metatarsal Guard, Puncture-Resistant (PR), Steel Toe, Waterproof	Steel	—	Steel	Rubber, Steel	Green, Yellow	Ranger By Honeywell	**G5767**

Food Processing Boots

Food processing boots are worn over the sock to protect workers from hazards encountered in food production and processing settings, such as animal fat, food by-products, and cleaning chemicals. They are for use in the latter part of the food production process and are not for use around live animals.

Full Rubber-Dipped Neoprene

Neoprene is flexible and form-fitting for a snug, secure fit. The rubber coating on the entire outside surface up the boot is waterproof to keep feet dry.

Lightweight PVC

Made of lightweight air-injected material that is self-insulating to keep the wearer cool in hot environments and warm in cold environments.

Ankle Boots

Cover the foot to the ankle to protect the bottom, sides, and top of the foot.

Mid-Calf Boots

Cover the foot, ankle, and lower leg to the calf. Workers can tuck pants into the overboots to keep pants dry.

Knee-High Boots

Cover the foot, ankle, and lower leg to the just below the knee to protect workers where splash and water depth are above the ankle and calf. Workers can tuck pants into the overboots to keep pants dry.

Full Rubber-Dipped Neoprene Ankle E8699

Full Rubber-Dipped Neoprene Knee E7174

Full Rubber-Dipped Neoprene Mid-Calf H3495

Lightweight PVC Knee J5372

Safety Criteria	Midsole Construction	▶CHOOSE: Footwear Material	▶CHOOSE: Boot Color	Brand	Item No.
Full Rubber-Dipped Neoprene Ankle Boots for Food Processing					
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Flexible	Neoprene	Brown, Tan	Xtratuf	**E8699**
Full Rubber-Dipped Neoprene Mid-Calf Boots for Food Processing					
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Flexible	EVA, Neoprene	Brown, Tan	Xtratuf	**H3495**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Flexible	Neoprene	Brown, Tan	Honeywell Servus	**D0339**
	Flexible	Neoprene, Neoprene Latex	Brown, Tan	Honeywell Servus	**E1728**
	Rigid Steel	Neoprene Rubber, Nitrile Rubber, Rubber	Brown, Red	Tingley	**G3090**
Full Rubber-Dipped Neoprene Knee Boots for Food Processing					
Cold-Insulated, Electrical Hazard (EH), Steel Toe, Waterproof	Flexible	Neoprene	Brown, Tan	Honeywell Servus	**E7174**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	Neoprene Rubber, Nitrile Rubber, Rubber	Brown, Red	Tingley	**G3089**
Electrical Hazard (EH), Steel Toe, Waterproof	Flexible	Neoprene	Brown, Tan	Honeywell Servus	**D0341**
Lightweight PVC Knee Boots for Food Processing					
Cold-Insulated, Composite Toe, Defined Heel, Electrical Hazard (EH), Non-Metallic, Oil-Resistant Sole, Waterproof	Rigid Hardened Rubber	Aerex 1.5.5(R), Hardened Rubber, Nitrile Rubber	Blue, Red	Tingley	**J5371**
	Rigid Hardened Rubber	Aerex 1.5.5(R), Hardened Rubber, Nitrile Rubber	Black	Tingley	**J5372**
	Rigid Hardened Rubber	Aerex 1.5.5(R), Hardened Rubber, Nitrile Rubber	Gray, Orange	Tingley	**K2088**
Cold-Insulated, Defined Heel, Oil-Resistant Sole, Static Dissipative (SD), Steel Toe, Waterproof	Rigid Purofort	Polyurethane, Purofort®	Black, Yellow	Dunlop	**J5418**

PVC Knee
J6897

Rubber Knee
H2343

Rubber Knee
J0966

PVC Knee
J2626

PVC Knee
G1957

Polyurethane Knee
D9543

Farming, Agriculture & Fishery Knee Boots

Farm, agriculture, and fishery boots are worn when workers are in continuous contact with animal fluids, barnyard waste, and waste from fish and fish processing. Farming and agriculture boots are worn where feet come into contact with farm animals and animal waste produced by livestock, chickens, pigs, and other animals. Fishery boots protect against fluids in marine-related activities near oceans and lakes, including fishing and shrimping.

Safety Criteria	Midsole Construction	▶CHOOSE: Footwear Material	▶CHOOSE: Boot Color	Brand	Item No.
Polyurethane Knee Boots for Farming, Agriculture, & Fisheries					
Cold-Insulated, Defined Heel, Oil-Resistant Sole, Puncture-Resistant (PR), Static Dissipative (SD), Steel Toe, Waterproof	Rigid Purofort	Polyurethane, Purofort®	Black, Green	Dunlop	**D9543**
Cold-Insulated, Defined Heel, Oil-Resistant Sole, Puncture-Resistant (PR), Static Dissipative (SD), Steel Toe, Waterproof	Rigid Purofort	Polyurethane, Purofort®	Brown, Green	Dunlop	**D9542**
PVC Knee Boots for Farming, Agriculture, & Fisheries					
—	—	PVC	Black, Green	Heartland Footwear	**K3909**
Defined Heel, Oil-Resistant Sole, Plain Toe, Waterproof	Flexible	PVC	Black	Dunlop	**J6897**
Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Flexible	PVC	Black	Dunlop	**J6898**
Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	Flexible	PVC	White	Talon Trax	**J2625**
Oil-Resistant Sole, Steel Toe, Waterproof	Flexible	PVC	White	Talon Trax	**J2626**
Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	PVC	Green	Talon Trax	**G1957**
Rubber Knee Boots for Farming, Agriculture, & Fisheries					
Chain Saw Cut-Resistant, Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Black, Orange	Viking	**H0826**
Cold-Insulated, Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	Nitrile Butadiene Rubber	Brown	Viking	**H2343**
Defined Heel, Electrical Hazard (EH), Metatarsal Guard, Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Black, Yellow	Viking	**E4402**
Defined Heel, Electrical Hazard (EH), Metatarsal Guard, Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	Rubber	Black, Yellow	Viking	**J0966**
Defined Heel, Oil-Resistant Sole, Plain Toe, Waterproof	Rigid Steel	Nitrile Butadiene Rubber, Rubber	Brown	Viking	**G3086**

Haz-Mat PVC
Ankle
D0462

Haz-Mat PVC
Knee
D0328

Haz-Mat PVC
Mid-Calf
D0466

Hazardous Materials Boots

Hazardous materials (hazmat) rubber boots are worn over-the-sock to protect feet from nerve agents and extremely harsh and caustic chemicals, such as those encountered when responding to hazmat emergencies or when working in chemical processing. They are tested to meet NFPA 1991 (Edition 2016) standards for vapor-protective ensembles for hazardous materials emergencies. Hazmat boots are generally worn with other protective equipment. PVC is highly chemical-resistant and dielectric. Steel toes protect the front of the foot from minor injuries caused by walking into obstacles.

Safety Criteria	Midsole Construction	▶CHOOSE: Footwear Material	▶CHOOSE: Boot Color	Brand	Item No.
Haz-Mat PVC Ankle Boots for Exposure to Hazardous Materials					
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Steel	Hazmax, PVC, Steel	Green	Dunlop	**D0462**
Haz-Mat PVC Knee Boots for Exposure to Hazardous Materials					
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Steel	PVC, Steel	Green	Dunlop	**D0328**
Haz-Mat PVC Mid-Calf Boots for Exposure to Hazardous Materials					
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Steel	PVC, Steel	Cream, Orange	Tingley	**D0466**

PVC Knee
D0345

PVC Knee
J7538

Rubber Knee
G3688

Oil, Gas & Mining Boots

These waterproof knee boots are worn in petrochemical and mining operations where chemical resistance and heavy-duty features are required. Knee-height boots protect the foot, lower leg, and calf to just below the knee. PVC is lighter than rubber to reduce fatigue when boots are worn all day.

Safety Criteria	Trade Name	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
PVC Knee Boots for Oil, Gas, & Mining						
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Servus PRO	Rigid Steel	PVC	Black, Gray, Red	Honeywell Servus	**E4691**
	Servus XTP	Rigid Steel	PVC	Black, Gray, Red	Honeywell Servus	**D0344**
Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Steel Toe, Waterproof	Servus PRO	Rigid Steel	PVC	Gray	Honeywell Servus	**D0378**
	Servus XTP	Rigid Steel	PVC	Black, Gray, Yellow	Honeywell Servus	**D0345**
Defined Heel, Oil-Resistant Sole, Plain Toe, Waterproof	Servus MAX	Rigid Steel	PVC, Rubber	Black, Navy, Red	Honeywell Servus	**F2793**
	Servus MAX, Notherner Series Max	Rigid Steel	PVC	Brown, Green, Olive	Honeywell Servus	**D0377**
	Servus MAX, Notherner Series Max	Rigid Steel	PVC, Rubber	Black, Navy, Red	Honeywell Servus	**F2793**
Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Servus PRO+	Rigid Steel	PVC	Cream, Gray, Yellow	Honeywell Servus	**D0379**
Oil-Resistant Sole, Steel Toe, Waterproof	—	Rigid Steel	PVC	Red	Talon Trax	**J7538**
Rubber Knee Boots for Oil, Gas, & Mining						
Defined Heel, Electrical Hazard (EH), Metatarsal Guard, Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	SIGMA	Rigid Steel	Rubber, Steel	Black	Tingley	**G3688**

Half Rubber-Dipped Neoprene Knee
35GU60

Half Rubber-Dipped Neoprene Knee
G5149

Rubber Knee
K2465

Rubber Knee
G5142

Winter, Cold-Insulated Rubber Boots

Winter cold-insulated boots are worn over the sock when feet are exposed to cold, wet conditions and below-freezing temperatures. The exterior is waterproof to keep feet dry. Knee-height boots protect the foot, lower leg, and calf to just below the knee.

Rubber exterior is waterproof and chemical-resistant. **Neoprene** is flexible and form-fitting to provide a snug, secure fit.

Safety Criteria	Midsole Construction	Footwear Material	Boot Color	Brand	Item No.
Half Rubber-Dipped Neoprene Knee Boots for Wintery, Cold Conditions					
Cold-Insulated, Composite Toe, Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Waterproof	Rigid Fiberglass	Rubber, Rubber Over Neoprene	Black	Lacrosse	**35GU60**
	Rigid Fiberglass	Rubber, Rubber Over Neoprene	Black	Lacrosse	**J2051**
Cold-Insulated, Electrical Hazard (EH), Oil-Resistant Sole, Plain Toe, Waterproof	Rigid Steel	EVA, Rubber	Black	The Original Muck Boot Co.	**G5149**
Cold-Insulated, Oil-Resistant Sole, Plain Toe, Waterproof	Flexible	Rubber	Beige, Brown	Xtratuf	**K2465**
Rubber Knee Boots for Wintery, Cold Conditions					
Cold-Insulated, Composite Toe, Defined Heel, Electrical Hazard (EH), Non-Metallic, Oil-Resistant Sole, Puncture-Resistant (PR), Waterproof	Rigid Plastic	Polyurethane, Rubber	Black, Green, Orange	Baffin	**G5141**
Cold-Insulated, Defined Heel, Electrical Hazard (EH), Non-Metallic, Plain Toe, Waterproof	Rigid Plastic	EVA, Polyurethane, Rubber	Green	Baffin	**E7851**
Cold-Insulated, Defined Heel, Electrical Hazard (EH), Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Plastic	Oarprene, Rubber	Black	Baffin	**G5142**
	Rigid Plastic	Oarprene, Rubber	Black, Tan	Baffin	**G5140**
Cold-Insulated, Defined Heel, Electrical Hazard (EH), Steel Toe, Waterproof	Rigid Plastic	Polyurethane, Rubber	Black, Green	Baffin	**E7852**
Cold-Insulated, Defined Heel, Non-Metallic, Plain Toe, Waterproof	Rigid Plastic	EVA, Polyurethane, Rubber	Black, Green	Baffin	**E7850**

PVC Chest-Waders
E8462

PVC Hip-Waders
F2803

Rubber Hip-Waders
D0327

DUNLOP PROTECTIVE FOOTWEAR
TALON TRAX™

Waders

Waterproof waders are worn over the sock and extend to the hips or chest to cover more of the body than knee boots, allowing wearers to stay dry when working in deep water. They are worn by water and wastewater workers, plumbers, and others who work in deep water. Rubber and PVC are chemical-resistant. PVC weighs less than rubber, reducing fatigue when waders are worn for long periods of time.

Safety Criteria	Midsole Construction	Footwear Material	Brand	Item No.
PVC Chest Waders for General Use				
Defined Heel, Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Steel	Polyblend, PVC	Dunlop	**E8462**
Defined Heel, Steel Toe, Waterproof	Rigid Steel	PVC	Dunlop	**D0314**
PVC Hip-Waders for General Use				
Defined Heel, Oil-Resistant Sole, Plain Toe, Waterproof	Rigid Steel	PVC	Dunlop	**F2803**
Defined Heel, Oil-Resistant Sole, Puncture-Resistant (PR), Steel Toe, Waterproof	Rigid Steel	Polyblend, PVC	Dunlop	**E8464**
Defined Heel, Oil-Resistant Sole, Steel Toe, Waterproof	Rigid Steel	PVC	Dunlop	**E8463**
Rubber Hip-Waders for General Use				
Defined Heel, Steel Toe, Waterproof	Rigid Steel	Rubber	Talon Trax	**D0327**

IMPACTO PROTECTIVE PRODUCTS

D4919

D9577

D9539

Anti-Fatigue Overshoes

Anti-fatigue overshoes attach to existing footwear to provide a cushioned base that can help reduce back and leg pain caused by standing or walking for long periods of time. They are often used by warehouse and assembly line workers and food service personnel where anti-fatigue mats are impractical. Anti-fatigue overshoes for **food service applications** are resistant to water, cleaning chemicals, and oils. **Lightweight overshoes** weigh less than general purpose overshoes to reduce fatigue when wearing them all day.

Safety Criteria	Midsole Material	Footwear Closure	Color	Item No.
Anti-Fatigue Overshoes for Food Service Applications				
Non-Metallic, Oil-Resistant Sole	Polymer PVC	Adjustable Straps	Black	**D4919**
Anti-Fatigue Overshoes for General Use				
Non-Metallic, Oil-Resistant Sole	Polymer PVC	Adjustable Straps	Black	**D9577**
Lightweight Anti-Fatigue Overshoes for General Use				
Non-Metallic	Polymer PVC	Adjustable Straps	Black	**D9539**

Ankle
D0707

Ankle
F0545

Knee
F0547

Knee
D0708

SALISBURY by Honeywell
SERVUS by Honeywell

Dielectric Overboots & Overshoes

Dielectric overboots and overshoes meet ASTM F12413-11 electrical-hazard standards to protect the wearer from electrical shock. **Ankle-high** overshoes cover the bottom, sides, and top of the foot. **Knee-high** overboots cover the foot and lower leg up to the knee.

Safety Criteria	Midsole Material	Footwear Closure	Color	Brand	Item No.
Ankle					
Electrical Hazard (EH), Non-Metallic, Waterproof	Rubber	Slip-On	Red	Salisbury	**D0707**
	Rubber	Slip-On	Yellow	Honeywell Servus	**F0545**
	Rubber	Buckle	Yellow	Honeywell Servus	**F0546**
Knee					
Electrical Hazard (EH), Non-Metallic, Waterproof	Rubber	Pull-On with Adjustable Strap	Yellow	Honeywell Servus	**F0547**
	Rubber	Pull-On	Black, Red	Salisbury	**D0708**

TINGLEY SERVUS by Honeywell TALON TRAX RANGER by Honeywell DUNLOP TREDS ONGUARD

General Purpose Overboots & Overshoes

General purpose overboots and overshoes are waterproof to keep feet dry and provide some chemical resistance. They can be put on and taken off without removing existing footwear, making them convenient for intermittent use or use by individuals who require orthotics, who want to use their own footwear, or who have other special footwear considerations.

Overshoes

Slip over existing footwear to cover the foot to the ankle to protect the bottom, sides, and top of the foot.

Mid-Calf Overboots

Cover the foot, ankle, and lower leg to the calf. Workers can tuck pants into the overboots to keep pants dry.

Knee-High Overboots

Cover the foot, ankle, and lower leg to the just below the knee to protect workers where splash and water depth are above the ankle and calf. Workers can tuck pants into the overboots to keep pants dry.

Safety Criteria	Upper Material	Footwear Closure	Color	Brand	Item No.
General Purpose Overshoes					
Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2318**
	PVC	Pull-On	Yellow	Tingley	**E9344**
	PVC	Pull-On	Black	Tingley	**E1192**
	PVC	Stretch Fasteners	Black	Honeywell Servus	**G5766**
	PVC/Vinyl	Slip-On	Black	Talon Trax	**D0316**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8299**
Non-Metallic, Plain Toe, Waterproof	PVC/Flex-O-Thane	Pull-On	Black	Dunlop	**D0315**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J4037**
	Rubber	Pull-On	Black	Tingley	**D0463**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8299**
Oil-Resistant Sole, Steel Toe, Waterproof	PVC	Pull-On	Black, Yellow	Tingley	**D0465**
General Purpose Mid-Calf Overboots					
Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2319**
	PVC	Pull-On with Button	Black	Tingley	**E3486**
	PVC	Pull-On with Button	Yellow	Tingley	**E9345**
Non-Metallic, Plain Toe, Waterproof	PVC/Flex-O-Thane	Pull-On with Snaps	Black	Dunlop	**D0317**
	PVC/Flex-O-Thane	Pull-On with Snaps	Yellow	Dunlop	**F2806**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J4036**
	Rubber	Buckle	Black	Talon Trax	**D0321**
	Rubber	Pull-On with Button	Black	Tingley	**D0464**
Oil-Resistant Sole, Plain Toe, Waterproof	PVC/Vinyl	Pull-On with Snaps	Black	Talon Trax	**D0318**
General Purpose Knee-High Overboots					
Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	PVC	Pull-On	Black, Red	Tingley	**K2320**
	PVC	Pull-On with Button	Black	Tingley	**E3487**
	Rubber	Buckle	Black, Red	Ranger By Honeywell	**F8298**
Non-Metallic, Plain Toe, Waterproof	PVC/Flex-O-Thane	Pull-On with Snaps	Black	Onguard	**D0319**
	Rubber	Pull-On with Snaps	Black	Treds Overboots	**J0005**
Plain Toe, Waterproof	Rubber	Pull-On with Adjustable Strap	Black, Yellow	Talon Trax	**D0326**

PVC Overshoe Ankle D0316

PVC Mid-Calf D0317

Rubber Knee D0326

WINTER WALKING TINGLEY NEOS OVERSHOE

Winter Overboots

Winter overboots are worn over existing footwear to keep feet warm and protect them from water, snow, and slush. They are used by service professionals who work outdoors for long periods of time or who might need occasional protection. **Traction overboots for general use** provide secure footing to help reduce slips and falls. **Lightweight overboots** are lighter and more compact than general purpose overboots while providing similar protection from cold.

Safety Criteria	Footwear Sole Pattern	Insulated	Footwear Closure Type	Color	Brand	Item No.
Traction Overboots for General Use						
—	Grit	—	Snap Tab	Black	Winter Walking	**G6609**
Lightweight Winter Overboots						
—	Studs	Yes	Hook-and-Loop	Black	Tingley	**J5374**
	Cleated	Yes	Hook-and-Loop	Black	Tingley	**J5374**
Cold-Insulated, Non-Metallic, Plain Toe, Waterproof	Multi Directional Lug	Yes	Buckles	Black	Neos Overshoe	**E6669**
Non-Metallic, Plain Toe, Waterproof	Ribbed	No	Hook-and-Loop	Black	Neos Overshoe	**E4783**

Traction Overboots for General Use G6609

Lightweight Winter Overboots J5374

Lightweight Winter Overboots E4783

Scan. Order. Done.
Details on page A1.

Latex Mid-Calf
D0329

PVC Knee
E8154

Latex Rubber Ankle
(Shown on Boot, Not Included)
J6285

Rubber Ankle
(Shown on Boot, Not Included)
J6280

Hazardous Materials Overboots & Overshoes

Hazardous materials (hazmat) overboots meet NFPA 1991 (Edition 2016) specifications to protect first responders from hazardous materials such as nerve agents and extremely harsh and caustic chemicals. They are worn over existing footwear in chemical processing and when workers are exposed to corrosive chemicals and hazardous waste. **Latex rubber** stretches and resists tears and cuts. **PVC** is lighter than rubber.

Safety Criteria	Upper Material	Footwear Closure	Color	Pkg. Qty.	Brand	Item No.
PVC Mid-Calf Overboots for use with Hazardous Materials						
Non-Metallic, Oil-Resistant Sole, Plain Toe, Waterproof	Latex	Pull-On	Yellow	1	—	**D0329**
Latex Rubber Mid-Calf Overboots for use with Hazardous Materials						
Non-Metallic, Waterproof	Rubber	Pull-On	Yellow	50	Isa Corporation	**J6288**
PVC Knee Overboots for use with Hazardous Materials						
Oil-Resistant Sole, Steel Toe, Waterproof	PVC	Pull-On with Adjustable Strap	Green	1	Dunlop	**E8154**
Latex Rubber Ankle Overboots for use with Hazardous Materials						
Non-Metallic, Waterproof	Rubber	Pull-On	Yellow	1	Isa Corporation	**J6284**
			Blue			**J6285**
			Red			**J6286**
			Black			**J6287**
			Yellow	100		**J6280**
			Blue			**J6281**
			Red			**J6282**
			Black			**J6283**

Safety Toe Caps
J5460

Foot Guard
5T457

Toe Guard
5T455

Metatarsal Guards
2KTC9

Foot Guard
5T456

Shin Guard
5T458

Full-Soled Safety Toe Overshoes
G2613

Safety Toe Overshoes, Toe Caps & Metatarsal Guards

Safety-toe overshoes, toe caps, and metatarsal guards are worn over regular shoes or boots when protection is needed intermittently. **Safety toe caps** protect the front of the foot and top of the toes from damage caused by walking into obstacles. **Metatarsal guards** protect the top of the foot from light impact injuries, and **leg guards** protect the top of the foot and shin.

Item	Material	H	Type	Color	Brand	Item No.
Safety Toe Caps						
Foot Guard	Plastic	4 ½ in	Strap On	Green	—	**5T457**
Toe Cap	Steel	—	—	Black, Green, Black, Red, Black, White	Impacto	**J5460**
Toe Guard	Steel	3 ⅛ in	Strap On	Silver	—	**5T455**
Metatarsal Guards						
Foot Guard	Aluminum	2 in	Strap On	Silver	—	**1AG91**
Foot Guard	Aluminum	5 ⅛ in	Strap On	Silver	—	**5T454**
Foot Guard	Aluminum	2 in	Rubber Strap	Silver	—	**5T456**
Foot Guard	Polycarbonate	2 in	Lace Up	Black	Impacto	**2KTC9**
Replacement Strap	Nylon	—	Strap On	Black	Impacto	**4HCR7**

Item	Material	H	Type	Color	Brand	Item No.
Leg Guards						
Knee and Shin Guard	Plastic	2 ⅛ in	Strap On	Black	—	**5T459**
Shin Guard	Plastic	2 ⅛ in	Strap On	Black	—	**5T458**
Full-Soled Safety Toe Overshoes						
Overshoe	—	1 31⁄32"	—	Black	Gaston Mille Inc	**J5379**
Overshoe	—	2"	—	Black, Purple	Impacto	**G2613**
Overshoe	PVC	3"	Steel-Toe	Black, Gray, Black, White, Black, Yellow, Black, Red, Black, Blue, Black, Green	Impacto	**G2613**
Overshoe	Rubber	—	Slip On	Black	Impacto	**D0468**
Overshoe	Rubber, Steel Toe	3"	—	Black	Impacto	**G2613**
Overshoe	Vulcanized Rubber, Steel Toe	—	—	Black	Impacto	**D0468**

PAWS Traction for Stripping Floors — SEYMOUR MIDWEST

Floor Stripping & Coating Overshoes

Floor stripping and coating overshoes are worn over existing footwear to protect floors and provide traction to reduce slips and falls. They are worn on slippery floors or when workers are removing an existing or adding a new floor finish. The surface covers the bottom of the foot and is nonmarring. **Traction overshoes** have a sole that is coated with a nonmarring abrasive grit to increase traction and protect floor surfaces. **Rigid-spiked overshoes** minimize contact with freshly applied coatings, allowing it to flow back into place after workers walk on it.

3YPC6

Replacement Spike 3YPC2

J5424

3YPC1

Item	Material	Footwear Closure	Spike Length	Color	Brand	Item No.	Pkg. Qty.
Traction Overshoes for Floor Stripping							
Floor Stripping Overshoe	Polyester	Adjustable Straps	—	Black	Paws	**J5424**	1
Floor Stripping Overshoe	Vinyl	Adjustable Straps	—	Red	Paws	**J5424**	1
Floor Stripping Overshoe	Rubber	Pull-On	—	Black	Paws	**J5419**	1
Rigid-Spiked Overshoes for Floor Coating							
Floor Stripping Overshoe	Rubber	Buckle	½ in	Black	Seymour Midwest Rake	**3YPC6**	1
Floor Stripping Overshoe	Polypropylene	Buckle	¾ in	Black	Seymour Midwest Rake	**3YPC1**	1
Replacement Spikes	Steel	—	½ in	Silver	Seymour Midwest Rake	**3YPC7**	40
Replacement Spikes	Steel	—	¾ in	Silver	Seymour Midwest Rake	**3YPC2**	26

39J091

D9581

55EF01

J5437

WINTER WALKING — duenorth INDUSTRIAL TRACTION — STABIL — IMPACTO — TINGLEY — YAKTRAX — ergodyne

Traction Devices

Traction devices attach to the bottom of existing footwear to provide secure footing when walking on ice, snow, and other wet or slippery surfaces. Transitional traction devices are attached with straps and can be moved out of the way when moving indoors. Devices for sustained use are designed to be worn for longer periods of time either indoors or outdoors.

For Use on Surface Types	Upper Material	Traction Type	Traction Material	Traction Attachment Style	Footwear Coverage Style	Brand	Item No.
Traction Devices for Transitional Indoor/Outdoor Use							
Ice, Oil, Snow	PVC	Grit	Aluminum Oxide	Pull-On	Ball, Heel	Winter Walking	**D8348**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Strap-On	Mid-Sole	K1 Series	**230Z79**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Heel	Due North	**39J091**
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**J4485**
Traction Devices for Sustained Indoor Use							
Ceramic, Concrete, Dry Floors, Grease, Oil, Tile, Wet Floors	Nylon	Grit	Synthetic Fibers	Strap-On	Ball, Heel, Mid-Sole	Tracmates	**D9581**
Ice, Snow	Rubber	Grit	Rubber	Pull-On	Ball, Heel, Mid-Sole	Stabilicers	**J1697**
Traction Devices for Sustained Outdoor Use							
Ice, Snow	1200D Nylon	Stud	Steel	Pull-On	Mid-Sole	Impacto	**55MM76**
Ice, Snow	1200D Nylon	Stud	Brass	Pull-On	Mid-Sole	Impacto	**55MM77**
Ice, Snow	Polyester	Stud	Tungsten Carbide	Strap-On	Heel, Mid-Sole	Due North	**55EF01**
Ice, Snow	Polyester	Stud	Tungsten Carbide	Strap-On	Mid-Sole	Due North	**55EF02**
Ice	Rubber	Grit	Aluminum Oxide	Pull-On	Ball, Heel	Winter Walking	**K2317**
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**J5448**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Tingley	**G0007**
Ice, Snow	Rubber	Coil	Steel	Strap-On	Ball, Heel, Mid-Sole	Yaktrax	**E3929**
Traction Devices for Occasional Outdoor Use							
Ice	Rubber	Stud	Tungsten Carbide	Pull-On	Ball, Heel	Winter Walking	**D8347**
Ice	Rubber	Stud	Steel	Pull-On	Ball, Heel	Winter Walking	**J5437**
Asphalt, Concrete, Gravel, Ice	Rubber	Stud	Steel	Pull-On	Ball, Heel	Trex By Ergodyne	**G0001**
Asphalt, Concrete, Gravel, Ice	Rubber	Stud	Steel	Strap-On	Ball, Heel	Trex By Ergodyne	**G0002**
Ice, Snow	Rubber	Stud	Tungsten Carbide	Pull-On	Heel	Due North	**J4985**

Scan. Order. Done.
Details on page A1.

H9460

H9578

D6705

E2112

E7700

Men's 6" Safety Work Boots

- All available in sizes between 7-14

Rubber outsole is abrasion-, slip- and oil-resistant.

Note: All styles are available in medium width; for wide widths and additional sizes, go to grainger.com/footwear

Style 1064—Designed with lightweight, flexible cement construction, these boots feature a microfiber leather upper, a mesh lining with antimicrobial treatment, a removable open cell polyurethane insole, an EVA midsole, a rubber outsole, and a fiberglass shank.

Style 26063—Features shaped alloy safety toes for lightweight protection and fit. Cement construction provides flexibility and reduced break-in time. Molded polyurethane midsole for lightweight, durable cushioning. Contoured open-cell polyurethane footbed has temperature-regulating technology sock cover to keep your feet drier.

Style 47592—Premium full-grain leather upper for comfort and abrasion resistance. Breathable water-impermeable lining helps to keep feet dry in most types of wet conditions. Mesh lining has antimicrobial treatment for odor control.

Style 52562—Antifatigue technology includes a contoured footbed, an antimicrobial mesh liner, and roomy toe provide all-day comfort. Steel shank delivers structural support, and a puncture-resistant footplate provides flexible underfoot protection.

Style 85594—Leather work boot is designed with antifatigue technology for long hours in tough conditions. Features a contoured single-density open-cell polyurethane footbed with antimicrobial cover for breathability and odor control.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
1064A	Alloy	Yes	No	No	No	Best	Black	**H9460**
26063	Alloy	Yes	No	No	No	Better	Brown	**E2112**
47592	Steel	Yes	Yes	Yes	No	Better	Black	**H9578**
52562	Steel	Yes	No	Yes	No	Better	Brown	**E7700**
85594	Alloy	Yes	Yes	No	No	Better	Brown	**D6705**

H8736

H8735

H8738

H9082

Men's 6" Safety Work Boots

- All available in sizes between 7-14

Nylon shank offers excellent structural support.

Note: All styles are available in medium and wide widths; for additional sizes and widths go to grainger.com/footwear

Style 04713—Steel-toe work boots feature resilient cushioning with lightweight, fatigue-fighting support. Additional features include a full-grain leather upper, a moisture-managing mesh lining, a removable, open cell, full cushion polyurethane footbed, a polyurethane midsole, and a rubber lug outsole.

Style 04714—Mesh-lined leather boots have a removable full-cushion footbed, and polyurethane midsole. The rubber lug outsole improves traction on wet and slippery surfaces.

Style 10112—Waterproof work boots are designerd with innovative materials to create more comfort and flexibility without sacfificing safety. The heritage-look waterproof leather upper keeps feet dry, with lightweight construction, a protective composite toe, and a resilient, removable cushioned footbed.

Style 10304—Security-friendly boots feature a waterproof full-grain leather upper, EVA midsole with high-visibility reflective wrap, and rubber outsole.

Men's 6" Safety Work Boots

- Available in sizes 8 to 15
- Meet ASTM 2413-11 M I/75 C/75 EH

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
CMF6366	Composite	Yes	No	No	No	Best	Brown	**H3860**
CMW6220	Steel	Yes	Yes	No	No	Better	Brown	**G2228**
W04713	Steel	Yes	No	No	No	Best	Walnut	**H8736**
W04714	Steel	Yes	No	No	No	Best	Black	**H8735**
W10112	Composite	Yes	Yes	No	No	Best	Black	**H8738**
W10304	Composite	Yes	Yes	No	No	Best	Black	**H9082**

Men's 6" Safety Work Boots

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11M I/75 C/75 EH

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style 5002—100% nonmetallic boots have a full-grain leather upper with padded collar, removable EVA cushion footbed, sponge rubber heel bed, and rubber outsole. Cement construction.

Style 5007—Full-grain leather upper, nylon mesh liner, removable EVA insole, sponge heelbed, and rubber outsole in 100% nonmetallic design. Plastic shank. Cement construction.

Style 5150—Leather upper, nonmetallic eyelets, removable EVA insole with sponge rubber heel wedge, EVA cushion midsole, and rubber outsole. Cement construction.

G5169

H9504

G5181

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
IA5002	Composite	Yes	No	No	No	Best	Brown	**G5169**
IA5007	Composite	Yes	No	No	No	Best	Black	**H9504**
IA5150	Steel	Yes	No	No	No	Best	Black	**G5181**

Men's 6" Safety Work Boots

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75/C/75

Style 8044200—Electrical-resistant boots have an oil-tanned leather upper with a cotton drill vamp lining, removable dual-density molded polyurethane insole, rubber midsole, and single-density polyurethane MAXwear Wedge™ outsole. Engineered composite shank. Goodyear storm welt construction.

Style 8046190—Waterproof boots have a leather/mesh upper with a two-zone wicking mesh/Thoro>dri™ WATERPROOF System lining that is Blood Borne Pathogen Compliant. Features a removable dual-density polyurethane SHOCK ZONE footbed, rubber midsole, and Z-Trac ASR rubber outsole with integrated EVA impact pads. Engineered composite shank. Cement construction.

G5437

H9159

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
804-4200	Steel	Yes	No	No	No	Better	Brown	**G5437**
8046190	Composite	Yes	Yes	No	No	Best	Black	**H9159**

Men's 6" Safety Work Boots

- Available in sizes 8 to 15
- Meet ASTM 2413-11 M I/75 C/75 EH

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 6366—Durable boots feature an oil-tanned leather upper, EVA midsole with PU Strobel pad, and a padded insole for maximum cushioning and flexibility. Sole is oil-, chemical-, and slip-resistant.

Style 6220—Bison boots have an oil-tanned leather upper and a dual-density polyurethane outsole with direct-attach welt construction for added durability. Feature a padded collar, foam-padded comfort tongue, and molded TPU heel counter with Achilles flex joint.

H3860

G2228

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
CMF6366	Composite	Yes	No	No	No	Best	Brown	**H3860**
CMW6220	Steel	Yes	Yes	No	No	Better	Brown	**G2228**

H9458

J5280

J5270

J2864

H2757

G5167

Men's Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style RB1061—These work shoes are designed with extra-wide composite toe cap and feature nylon mesh lining with injected EVA removable cushion footbed. Dual-density outsole, lightweight injected EVA cushion midsole with wraparound TPU heel shank stabilizer. 100% nonmetallic.
- Meets ASTM F2413-11 I/75 C/75

Style RB3502—Features no exposed metal on upper and MemoryTech foam removable cushion footbed. The style is designed with slip-resistant rubber outsoles and moisture-wicking nylon mesh lining.
- Meets ASTM F2413-11

Style RB3604—Built with comfortable DMX moving-air technology, MemoryTech Massage removable cushion footbed, dual resistor ESD, and no exposed metal on upper. The shoes feature slip-resistant rubber outsole and injected EVA midsole. Moisture-wicking nylon mesh lining helps keep you dry.
- Meets ASTM F2413-11

Style RB4005—Leather and mesh upper with MicroWeb and no exposed metal. Oxfords feature moisture-wicking nylon mesh, FootFuel® injected EVA cushion footbed, and light EVA cushion midsole with rubber outsole.
- Meets ASTM F2413-11

Style RB1910—Designed with suede leather upper, a 2-color Grip Master slip-resistant rubber outsole, and EVA cushion midsole.
- Meets ASTM F2413-05 M I/75 C/75 EH

Style RB4895—Leather and mesh upper. Extra-wide toe for comfort. Designed with tridensity comfort system with an EVA midsole and rubber bottom. Wrap-around shank stabilizer.
- Meets ASTM F2413 EH

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
RB1061	Composite	No	No	No	No	Best	Black/Red	**H9458**
RB3502	Steel	Yes	No	No	No	Best	Navy	**J5280**
RB3604	Alloy	No	No	No	No	Best	Gray/Blue	**J5270**
RB4005	Steel	Yes	No	No	No	Best	Gray/Red	**J2864**
RB1910	Steel	Yes	No	No	No	Best	Black	**H2757**
RB4895	Composite	Yes	No	No	No	Better	Black/Silver	**G5167**

Men's Athletic Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet F2413-11 I/75 C/75 EH

Style 77068—Sporty aesthetics combine with comfort and safety in this alloy toe slip-resistant sneaker. Feature smooth soft trubuck leather and synthetic upper with stitching and overlay accents. Memory Foam insole.

J2771

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
77068-BKCC	Alloy	Yes	No	No	No	Good	Black/ Charcoal	**J2771**

Men's Athletic Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet F2413-11 I/75 C/75

Style 1343—Constructed with nylon and synthetic leather with a comfortable EVA midsole, steel safety toe, static dissipative technology, removable anti-fatigue polyurethane insole, and a durable slip- and oil-resistant sole. Static dissipative.

H9469

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
N1343	Steel	No	No	No	No	Good	Gray/Red	**H9469**

Men's Athletic Style Work Shoes

- Available in sizes 7 to 15
- Meet F2413-11 I/75 C/75

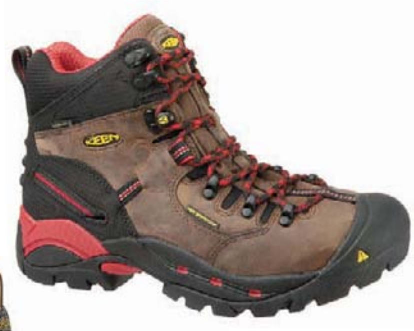
Style A1GT9—Provide low-profile comfort and protection with self-molding footbeds, built-in static-dissipative performance, and antifatigue technology. Premium ripstop nylon uppers with TPU toe and heel overlay include a mesh lining with antimicrobial treatment for odor control and comfort. Outsole is slip-, oil-, and abrasion-resistant.

Style A16NN—Comfortable low-profile athletic design with alloy safety toe for protection. Synthetic upper material with a breathable, antimicrobial mesh lining. Rubber and polyurethane midsole offers static-dissipative perfomance, and polyurethane outsole is slip-resistant and nonmarking. Antifatigue technology provides all-day support and comfort.

J5306

J5297

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
A1GT9	Alloy	No	No	No	No	Better	Gray	**J5306**
A16NN	Alloy	No	No	No	No	Better	Black	**J5297**



H9680

H9689

KEEN UTILITY

Men's Safety Work Shoes and Boots

- Available in sizes 8 to 15; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75 C/75 EH

Tough footwear has reflective webbing on uppers to aid visibility. Removable dual-density EVA insoles. Wide toe caps have room for toes to flex and bend. Durable oil- and slip-resistant, nonmarking rubber outsoles.

Note: All styles are available in medium and wide widths; go to grainger.com/footwear

Style 1007024—Hiker-style boot has a nubuck leather upper, hydrophobic/hydrophilic comfort lining, full-length TPU interlocking torsion plate, and dual-density EVA and polyurethane midsole. Waterproof.

Style 1011242—Waterproof hiker-style boot with leather upper, hydrophobic/hydrophilic comfort lining, TPU stability shank, and polyurethane midsole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
1007024	Steel	Yes	Yes	No	No	Good	Brown	**H9680**
1011242	Steel	Yes	Yes	No	No	Better	Brown	**H9689**

E3927

H9587

Timberland PRO

Men's Safety Work Shoes

- Available in sizes 7 to 15
- Meet ASTM F2413-11 M I/75 C/75 EH

Titan® oxford work shoes feature full-grain leather upper, alloy safety toe, nylon mesh liner with an antimicrobial treatment for odor control, nylon shank, polyurethane midsole, 90° heel, and durable rubber outsole that resists oil, slips, and abrasion.

Style 47028—3"H tie safety shoe with removable dual-density open cell polyurethane insole.

Style 53534—Slip-on oxford is metal-free and includes removable contoured Ortho-Lite open cell polyurethane insole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
47028	Alloy	Yes	No	No	No	Better	Brown	**E3927**
53534	Alloy	Yes	No	No	No	Better	Camel Brown	**H9587**

H9203

H9208

FLORSHEIM WORK

Men's Safety Work Shoes

- Available in sizes 7 to 14; additional sizes at Grainger.com®
- Meet ASTM F2413-11 M I/75 C/75

Men's oxford work shoes with full-grain leather upper, composite toe, moisture-wicking nylon mesh and Cambrelle® lining, removable F2A dual-density polyurethane cushion insert, polyurethane midsole, and plastic shank. TPU outsole is oil-resistant. Direct attach construction is lightweight, flexible, and durable.

Style 2400—100% nonmetallic construction will not activate security screening devices. Nonmetallic eyelets help reduce marking or scratching work surfaces.

Style 2430—Flexible work shoes are 100% nonmetallic. Won't activate security screening devices. Eyelets help reduce marking or scratching work surfaces.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
FS2400	Composite	No	No	No	No	Best	Dark Brown	**H9203**
FS2400	Composite	No	No	No	No	Better	Dark Brown	**H9203**
FS2430	Composite	No	No	No	No	Best	Copper	**H9208**

WOLVERINE

Men's Safety Work Boots

- Available in sizes 7 to 14
- Meet ASTM F2413-11 M I/75 C/75 EH

Comfortable 10"H Wellington work boots are easy to pull on. Full-grain leather uppers.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 10318—Waterproof boots with wave mesh lining and removable EPX™ ribbed, cushioned insole. Composite toe, polyurethane midsole, nylon shank, and slip-resistant rubber lug outsole. 100% nonmetallic. Direct attach construction.

H9083

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
W10318	Composite	Yes	Yes	No	No	Best	Dark Brown	**H9083**

G2233

carhartt

Men's Safety Work Boots

- Available in sizes 8 to 15
- Meet ASTM F2413-11 I/75 C/75 EH

Slip-on Wellington boots with heel guard and steel toe provide protection and safety. Combination of leather and Carstrong reinforced fabric upper with Storm Defender waterproof membrane for all-weather use. FastDry lining wicks away sweat and helps reduce odor. Cushioned polyurethane insole and outsole with rugged rubber tread for secure traction on muddy or wet ground.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
CMP1200	Steel	Yes	Yes	No	No	Better	Brown	**G2233**

H9518

J5224

H9556

ARIAT

Men's Safety Work Boots

- Available in sizes 7 to 14
- Meet ASTM F2413-11 M/1/75 C/75 EH

Western-style work boots designed with durable Goodyear welt construction. Premium full-grain leather upper with removable Ariat ATS® insole with gel impact cushion pad, heel stabilizer, and 90° heel. Oil- and slip-resistant Duratread™ rubber outsole.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 10006961—Pull-on boot features square steel toe, EVA midsole, and TPU shank.

Style 10010134—Includes square steel toe and TPU shank.

Style 10017420—Waterproof leather with full membrane lining keeps feet dry. Composite toe with wide, square toe cap. Features EVA midsole, extra-wide plastic shank, and nonmetallic eyelets.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
10006961	Steel	Yes	No	No	No	Good	Brown	**H9518**
10010134	Steel	Yes	No	No	No	Best	Aged Bark	**H9556**
10017420	Composite	Yes	Yes	No	No	Good	Bruin Brown	**J5224**

E4369

H9588

H9606

J5301

Women's Safety Work Shoes and Boots

Timberland PRO

- **Available in sizes 5½ to 11**

Mesh lining with antimicrobial treatment helps keep feet comfortable and controls odors. Lightweight, flexible cement construction. Styles 26388 and 63189 feature the roomy, lightweight TITAN® safety toe; a full-grain premium leather upper; and the rugged PRO series rubber outsole, which is slip-, abrasion, and oil-resistant.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 26388—6" hiker boots are designed for breathable comfort, drier feet, and temperature regulation, with contoured OrthoLite® PU insole, PU midsole, and contoured open-cell PU footbed with Outlast® Adaptive Comfort® technology. Nylon shank.

- **Meets ASTM F2413-05 I/75 C/75 EH**

Style 63189—Oxford's ergonomic design with PowerFit™ comfort system suppies movement and support for maximum all-day comfort. Nylon shank. The padded top collar and molded PU midsole help enhance comfort. Breathable, removable open-cell PU footbed help keep feet dry.

- **Meets ASTM F2413-11 I/75 C/75 EH**

Style 87528—Newbury ESD slip-on clog features shock-absorbing, antifatigue footbed for all-day comfort. Premium full-grain leather upper with padded top collar. The larger toe cap provides more room for your toes to flex and bend. Fiberglass shank. Low-profile PU outsole is oil- and slip-resistant with high surface contact.

- **Meets ASTM F2413-11 I/75 C/75 SD**

Style A1H1S—3½"H Powertrain Sport athletic work shoes feature self-molding footbeds and proprietary antifatigue technology for low-profile comfort and protection. Nonmarking dual-density polyurethane (PU) outsole is slip-, oil-, abrasion-, and heat-resistant. Premium ripstop nylon uppers with TPU toe and heel overlay. Ghillie lacing. Conductive PU midsole and fiberglass shank.

- **Meets ASTM F2413-11 I/75 C/75 EH**

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
26388	Alloy	Yes	No	No	No	Better	Reddish Brown	**E4369**
63189	Alloy	Yes	No	No	No	Better	Super Retro Haystack	**H9588**
87528	Alloy	No	No	No	No	Best	Black	**H9606**
A1H1S	Alloy	No	No	No	No	Better	Black	**J5301**

J6134

H9295

Women's Safety Work Shoes

Reebok

- **Available in sizes 6 to 12**
- **Meet ASTM F2413-11 I/75 C/75**

Removable EVA cushion insert with sponge rubber heel wedge adds extra cushioning and impact protection. Nonmetallic eyelets won't mark or scratch work surfaces, except for J6134. Cement construction improves flexibility.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style RB041—MemoryTech massage footbed adapts to the contours of your foot and provides instant cushioning for more comfortable wear. The mesh uppers allow for enhanced breathability and moisture transfer for all day comfort. EVA cushion midsole.

Style RB195—Leelap retro oxford joggers have suede leather uppers and brushed nylon lining. EVA midsole and rubber outsole.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
RB041	Alloy	Yes	No	No	No	Best	Black	**J6134**
RB195	Steel	Yes	No	No	No	Best	Navy Blue	**H9295**

H8786

K2660

WOLVERINE

Women's 6" Safety Work Boots

- **Available in sizes 5 to 9; additional sizes also available on Grainger.com®**

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 10181—Women's boot features waterproof leather upper, moisture-managing mesh lining with waterproof membrane, and grippy rubber outsole. Removable open-cell PU cushion footbed, EVA midsole, and nylon shank. Cement construction. Nonmetallic hardware helps prevent surface scratches.

- **Meets ASTM F2413-11 M I/75 C/75 EH**

Style W201153—Waterproof full-grain leather upper with a moisture-wicking mesh lining to keep feet cool and comfortable. Steel toe offers protection and safety. Removable full-cushioned molded EVA insole. Rubber midsole and outsole for firm footing and traction on rough or wet surfaces.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
W10181	Composite	Yes	Yes	No	No	Best	Black	**H8786**
W201153	Steel	Yes	Yes	No	No	Best	Black	**K2660**

Men's and Women's 3" Safety Work Shoes

- Men's in sizes 7 to 16; Women's in sizes 5 to 11

Feature the Relaxed Fit design for a roomy and comfortable fit.

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 76576—Comfortable sneaker with slip-resistant rubber traction outsole has a foam-topped, cushioned, removable insole. Strobel/cement construction with mesh-lined all-leather upper, EVA midsole, and TPU shank.
- Meets ASTM F2413-05

Style 77040—Sneaker has a smooth leather and mesh fabric upper with stitching and overlay accents. The slip-resistant rubber traction outsole is good on wet and oily surfaces. Mesh panels on the sides, heel, and tongue help keep feet cool. With a cushioned removable comfort insole plus padded collar and tongue, soft fabric lining, and shock-absorbing, lightweight flexible midsole.
- Meets ASTM F2413-05

Style 77046—Slip-on dress casual has an oil-resistant rubber outsole to help prevent slips. Designed for all-day comfort, with foam insole, rounded plain toe, padded collar, supportive shock-absorbing midsole, and soft fabric lining. Dual side stretch fabric panels ease slip-on fit. Smooth leather upper with stitching accents.
- Meets ASTM F1677 Mark II

J5318

J5319

J5322

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
76576	Plain	Yes	No	No	No	Good	Black	**J5318**
77040	Plain	Yes	No	No	No	Good	Black	**J5319**
77046	Plain	Yes	No	No	No	Good	Black	**J5322**

Men's 4" Safety Work Shoes

- Men's in sizes 7 to 12, 13, 14
- Meet ASTM F2413-11

Note: All styles are available in medium width, many styles also available in wide width; go to grainger.com/footwear

Style 4700—Slip-resistant slip-on features cushioned heel and ball of foot, removable contoured cushion insole, and perspiration-absorbing lining. Strobel construction with water-resistant leather upper.

Style No.	Toe Type	Electrical Hazard Rated	Waterproof	Puncture Resistant Insole	Insulated	Slip Rating	Color	Item No.
4700	Plain	No	No	No	No	Best	Black	**K2672**

Scan. Order. Done.
Details on page A1.

MEGA COMFORT IMPACTO

Anti-Fatigue Insoles

Anti-fatigue insoles help eliminate foot, leg, and back pain caused by standing or walking for long periods of time.

J7628 H9265 K2190

Prevents	Toe Shape	Color	Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Round	Yellow/Black	Unisex	Megacomfort	J7628
Back Pain, Fatigue, Foot Pain, Joint Pain, Knee Pain, Leg Pain	Round	Yellow/Black	Unisex	Impacto	H7256
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating, Vibrations on Impact	Round	Yellow/ Blue/Black	Unisex	Megacomfort	H9265
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Square	Yellow/Black	Unisex	Megacomfort	K2190

MEGA COMFORT IMPACTO

Puncture-Resistant Insoles

Puncture-resistant insoles have an integrated steel plate that prevents sharp debris from puncturing the foot. They are used in footwear where workers encounter sharp objects such as nails and glass; and where workers can't see their footing, such as when walking in murky water.

J5281

Prevents	Color	Gender	Brand	Item No.
Injuries From Sharp Objects - Shards of Glass/ Metal/Nails, Fungus, Foot Odor, Sweating	Yellow/Black	Unisex	Megacomfort	J5281
Fatigue, Foot Pain, Leg Pain, Lower Back Pain, Punctures	Red/Black	Unisex	Impacto	D0472

MEGA COMFORT IMPACTO

Static-Dissipative Insoles

Static-dissipative insoles prevent static buildup and electrical discharge. They can be used in place of specialized static-dissipative footwear, allowing workers to wear their own shoes and boots. They are used in electronics manufacturing or other settings where static discharge can damage sensitive equipment.

H9267

Prevents	Color	Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Static Electricity, Sweating	Yellow/Black	Unisex	Megacomfort	H9267
Fatigue	Yellow/Black	Unisex	Impacto	H7257

MEGA COMFORT Spenco IMPACTO

Orthotic Insoles

Orthotic insoles have arch support to help reduce foot and heel pain.

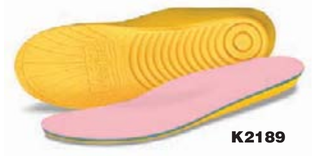
H9266

Prevents	▶CHOOSE: Color	▶CHOOSE: Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Plantar Fasciitis, Sweating	Yellow/Green/Black	Unisex	Megacomfort	H9266
Arch Pain	Green	Men's	Spenco	G2299
Shock	Blue/Black	Unisex	Spenco	J5461
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Orange/Blue	Unisex	Impacto	H4769
Heel Pressure and Pronation	Black/Blue, Black/Gray/Blue/Red	Women's, Unisex	Spenco	E6621

MEGA COMFORT Spenco

Diabetic Insoles

Diabetic insoles are soft and conform to the foot to help prevent rubbing and foot sores.



K2189

Prevents	Color	Gender	Brand	Item No.
Back Pain, Fatigue, Foot Odor, Foot Pain, Fungus, Knee Pain, Sweating	Yellow/Beige/Blue	Unisex	Megacomfort	K2189
Fatigue, Foot Odor	Tan/Blue	Unisex	Spenco	J6072

HEAT factory USA

Heated Insoles

Heated insoles have a crevice under the toe that holds a replaceable warming insert. Perforations allow the heat to move through the insole and warm the toes and foot.

Prevents	Color	▶CHOOSE: Gender	Brand	Item No.
Cold Feet	Gray	Men's, Women's	Heat Factory	G3069

H4766 J2904 D0471 E2224

Flat Insoles

IMPACTO SERVUS by Honeywell

Flat insoles are used by people with flat arches who might find other insoles uncomfortable.

Prevents	Color	▶CHOOSE: Gender	Brand	Item No.
Back Pain, Fatigue, Foot Pain, Knee Pain	Yellow/Blue	Unisex	Impacto	H4766
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Green/Gray	Men's, Women's	Impacto	J2904
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Green	Unisex	Impacto Airsol	D0471
Shock Absorption	Black	Men's	Honeywell Servus	E2224

Spenco IMPACTO SERVUS by Honeywell Timberland PRO

E6622 J1440 45KP40 G8761

Molded Insoles

Molded insoles help cushion the foot for comfort and support. **Heel cups** support and cushion the heel.

Prevents	Color	Gender	Brand	Item No.
Insole				
Blisters, Foot Odor	Green/Yellow/Gray	Unisex	Spenco	E6620
Bunching, Foot Pain, Leg Pain, Lower Back Pain	Blue	Unisex	Impacto	G3223
Fatigue	Yellow/Red	Men's	Solcomfort	45KP40
Fatigue	Black/Gray	Men's	Honeywell Servus	F2686
Fatigue, Foot Odor	Blue/Gray/Red	Men's	Spenco	E6622
Fatigue, Foot Odor	Orange/Black	Unisex	Timberland Pro	J1440
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Gray/Blue	Unisex	Impacto	G2615
Fatigue, Foot Odor, Foot Pain, Leg Pain, Lower Back Pain	Orange/Blue	Unisex	Impacto	H4768
Fatigue, Foot Odor, Heat Buildup	Green	Unisex	Impacto Airsol	D0469
Heel Cup				
Heel Discomfort, Heel Pain, Heel Strike	White/Blue	Unisex	Impacto	G8761
Pressure Reduction, Slipping	Blue	Unisex	Impacto	G2614

34VH12

D9275

E8927

52KE53

Socks & Liners

Socks and boot liners provide a barrier between the foot and the boot or shoe to keep feet warm and prevent sores caused by rubbing. **Slip-resistant socks** are worn without shoes and have an anti-slip surface to help maintain good footing on slippery surfaces.**Thermal socks** are worn in cold weather conditions to provide more insulation than general use socks. **Thermal boot liners** fit inside cold-condition boots and can be replaced when worn out.

▶CHOOSE: Color	Socks Primary Material	Gender	Brand	Pkg. Qty.	Item No.
General Purpose Work Socks					
Black	Cotton	Men's	Fruit Of The Loom	6	**34VH12**
White	Cotton	Men's	Fruit Of The Loom	6	**34VH16**
Beige	Cotton	Unisex	5.11 Tactical	1	**H5551**
Black	Cotton	Unisex	5.11 Tactical	3	**G0489**
Beige	Cotton	Women's	Carhartt	1	**G1973**
Black, Gray, White	Cotton	Men's	Carhartt	3	**D5782**
Charcoal Heather	Acrylic	Women's	Carhartt	1	**D5784**
Slip-Resistant Socks					
Yellow, Red, Green, Blue, Beige, Gray	Terrycloth	Unisex	—	48	**D9275**
Teal	Terrycloth	Unisex	—	96	**D9275**
Blue	Polyester	Unisex	Hcs	48	**35XD96**
Thermal Boot Liners					
Black	Foam, Wool	Men's	—	1	**E8927**
White	Wool	Women's	—	1	**E7854**
White	Wool	Men's	—	1	**E7853**
White		Men's	—	1	**E7853**
Thermal Socks					
Black	Wool	Unisex	5.11 Tactical	1	**52KE53**
Beige	Acrylic	Women's	Carhartt	1	**D5784**
Brown, Moss, Gray	Wool	Men's	Carhartt	1	**D7687**
Brown, Heather Black, Navy	Acrylic	Men's	Carhartt	1	**D5783**
Black/Yellow	Acrylic	Unisex	Heat Holders	1	**53PX70**

8DAX6

9RZ71

8DEL3

9AJL5

Boot Brushes & Replacement Boot Brush Parts

Boot brushes clean the sides and sole of the footwear to prevent mud and muck from being tracked into buildings. They are installed on the ground outside building entrances.

Includes	Overall Dim.	Brand	Item No.
Boot Brush			
Frame	9 in L x 6 in W x 5 in H	—	**8DAX6**
Frame	9 in L x 9 in W x 9 in H	—	**8CVD2**
Mounting Screws	9½ in L x 9½ in W x 7¼ in H	Implus Footcare	**471F33**
Base, Mounting Hardware	15 in L x 12 in W x 2 in H	Notrax	**52ZX91**
Frame	16½ in L x 14¾ in W x 7 in H	—	**9RZ71**
Boot Brush Base			
—	20 in L x 18 in W x 1 in H	—	**8DEL3**
—	22 in L x 6 in W x 1 in H	—	**9R680**
Replacement Brush Set			
2 Side Brushes, 3 Bottom Brushes, 6 Mounting Screws	3 in L x 6 in W x 3 in H, 5 in L x 1½ in W x 2 in H	—	**9AJL5**
2 Side Brushes, 2 Bottom Brushes, 4 Mounting Screws	3 in L x 6 in W x 3 in H, 5 in L x 1½ in W x 2 in H	—	**8DCJ9**

Heated Boot Dryers & Attachment Accessories

- 120V

Heated boot dryers circulate heated air through boots, shoes, and other equipment to speed drying and ensure they are thoroughly dried inside.

Overall Dim.	Color	Wattage	Brand	Item No.
Boot Dryer				
6 in L x 2 in W x 7 in H	Black	12 W	Peet Dryer	**8P425**
9 in L x 10 in W x 21 in H	Gray	30 W	Maxxdry	**45DV51**
9 in L x 9 in W x 10¾ in H	Gray	240 W	Implus Footcare	**471F32**
10½ in L x 9 in W x 2 in H	Black	36 W	Peet Dryer	**3MYT4**
Attachments				
Tall Boot Attachment			Peet Dryer	**3MYT5**
Glove Attachment			Peet Dryer	**3MYG5**
Helmet Dryer			Peet Dryer	**24MD96**

3MYT4

8P425

3MYT5

3MYG5

24MD96

Footwear Surface Cleaners, Protectants & Deodorizers

39GC01

39FY79

471F35

39GC05

Footwear surface cleaners and protectants are applied to the outside of shoes and boots to protect against wear and tear and keep footwear clean. **Footwear deodorizing sprays** and leave-in deodorants remove odors from shoes and boots.

Item	For Use With	Includes	Size	▶CHOOSE: Color	Brand	Item No.
Footwear Surface Cleaners & Protectants						
Water Proofer	Boots, Tents	Spray Nozzle	12 oz	—	Sof Sole	**39GC01**
Boot Guard	New or Used Leather, Rubber, Bordura, Vinyl and Steel Boots	Disposable Applicator, Sandpaper	2 oz	Black	Kg'S Boot Guard	**39FY79**
Boot Guard	New or Used Leather, Rubber, Bordura, Vinyl and Steel Boots	Disposable Applicator, Sandpaper	2 oz	Brown	Kg'S Boot Guard	**39FY80**
Boot Guard		—	4.5 oz	Brown, Black	Kg'S Boot Guard	**D0365**
Boot Guard	Work Boots	Applicator and Glue	Universal	Black, Brown	Yaktrax	**J4734**
Footwear Deodorizers						
Deodorizing Leave-In Balls	Athletic Shoes, Gear Bags, Gym Bags, Lockers	—	6 Pack	Black/Blue, Black/Red, Black/White	Implus Footcare	**471F35**
Deodorizing Spray	Athletic Gear, Athletic Shoes, Gym Bags, Lockers	Spray Nozzle	3 oz	—	Sof Sole	**39GC05**

45J304

16V857

45J301

Rope Grabs, Lifelines, and Carabiners

- Meet ANSI standards

Rope Grabs—For vertical applications. 30HG85 hinged design allows quick placement anywhere along vertical lifeline connector. 45J304 and 45J303 can easily be threaded onto lifeline ropes with unbraided trailing ends.

Lifelines—Increase vertical mobility. Include double-locking snap hook and taped end.

Carabiners—Self-locking link between lifelines, lanyards, and an anchorage point. Constructed of zinc-plated alloy steel.

Description	Brand	Item No.
Rope Grabs for ⅝" Dia Rope		
Hinged Self-Tracking	Condor	**30HG85**
Manual with 3-ft. Shock-Absorbing Lanyard and Snap Hook	Condor	**45J304**
Trailing with 3-ft. Shock-Absorbing Lanyard and Snap Hook	Falltech	**45J303**
Lifelines, 50 ft. x ⅝" Dia.		
Copolymer	Condor	**45J302**
Polyester	Condor	**45J301**
Carabiners		
¾'' Gate Opening, Dim. 4.14"L x 2.30W	Condor	**16V856**
1'' Gate Opening, Dim. 4.45"L x 2.82"W	Condor	**16V854**
1 3/16'' Gate Opening. Dim. 7.16"L x 3.74"W	Condor	**16V857**
2'' Gate Opening, Dim. 8.70"L x 5.59"W	Condor	**16V855**
2'' Gate Opening, Dim. 8.58"L x 4.92"W	Condor	**16V858**

5AJ17

5M533

Rope Grabs, Lifelines and Carabiners

- Meet ANSI standards, except Rope Lifelines

Rope Grabs—Stainless steel rope grabs move easily along lifelines to provide continuous fall protection. 3KN17 enables hands-free operation.

Rope Lifelines—Used with Miller rope grabs or roof anchor kit (see page 1778).

Carabiners—Double-action twist-lock anchorage connectors are made of lightweight aluminum.

Description	Mfr. Model	Item No.
Rope Grabs		
Microloc Compact Trailing for ⅝" Rope	8173/U	**4RC61**
Microloc Compact Trailing for 5/16" Wire Rope	8172/U	**4RC60**
Manual with O-Ring for ⅝" or ¾" Rope	8174/U	**5AJ17**
Trailing for ⅝" Rope	8175/U	**3KN17**
Manual with O-Ring for ⅝" or ¾" Rope, Includes 4-ft. Manyard Shock-Absorbing Lanyard with Snap Hook	8174MLS4-Z7/4FTYL	**36WA21**
Rope Lifelines, Nylon, ⅝" Dia.		
25-ft. with Thimble	195R-2/25FTWH	**1D853**
30 ft. with Carabiner	194R-2/30FT	**5M534**
100-ft. with Carabiner	194R-2/100FT	**5M533**
Carabiners		
1" Gate Opening	17D-2-Z7/	**36WA19**
2¼" Gate Opening	18D-2-Z7/	**36WA17**

2UZY3

Rope Grabs and Lifelines

Rope Grabs—Stainless steel rope grabs move easily along lifelines to provide continuous fall protection.

- Meet ANSI standards

Rope Lifelines—Abrasion- and UV-resistant with snap hook for easy, 1-handed connection.

Description	Mfr. Model	Item No.
Rope Grabs		
For ⅜" Dia. Steel Cable	5000338	**2UZY3**
For ⅝" Dia. Rope	5000335	**2UZY2**
Rope Lifelines, Poly Blend, ⅝" Dia.		
30 ft.	1202754	**2UZX7**
50 ft.	1202794	**2UZX8**
75 ft.	1202821	**2UZX9**
100 ft.	1202844	**2UZY1**

2VAA8

Rope Grab and Lifelines

- 2UZY5 meets ANSI standards

Rope grab enables hands-free operation and can be attached or removed anywhere on the lifeline.

Description	Mfr. Model	Item No.
Rope Grab		
For ⅝" Dia. Rope	AC202D	**2UZY5**
Rope Lifeline, Nylon with Carabiner, ⅝" Dia.		
50 ft.	AC215A1	**2VAA8**
100 ft.	AC230A1	**2VAA9**

19F391

19F390

45J299

45J296

30HG83

49CD38

Anchorage Connectors

- Meet OSHA and ANSI standards

Pass-Thru Anchors—Smaller D-ring passes through larger D-ring to attach to structural member; can be passed through multiple times to adjust overhead height.

Roof Anchors—Permanent and reusable anchors are designed for fall protection during maintenance, repair, and construction on pitched and flat roofs.

Mounted D-Ring and D-Bolt Anchors—Provide economical fall protection anchorage for installation on structural steel members, in a variety of work environments. D-rings are zinc-plated, except 45J296 is stainless steel.

Concrete Anchors—Temporary, reusable anchors can be relocated repeatedly. Engineered for use in cured, existing concrete.

Beam Anchor and Toggle Anchor—Easy-to-install anchors can be relocated and reused.

Clamp-on Beam Anchor anchor is well-suited for fixed positions. Heavy-duty aluminum alloy construction.

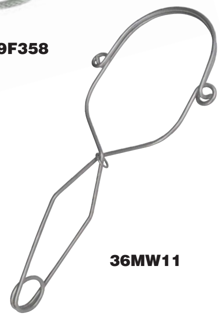
Toggle Anchor can be mounted horizontally or vertically; toggle action secures it in place on the beam. Heavy-duty alloy steel construction.

Description	Brand	Item No.
Pass-Thru Anchors, Polyester Webbing		
3 ft.	Condor	**19F392**
6 ft.	Condor	**19F391**
8 ft.	Condor	**30HG92**
10 ft.	Condor	**30HG93**
Roof Anchors		
Permanent Double D-Ring Anchor, 17"L	Condor	**19F390**
Permanent Single D-Ring Anchor, 19"L	Condor	**49CD18**
Reusable Hinged Anchor with D-Ring	Condor	**45J299**
D-Ring Steel Anchor Plate	Condor	**49CD27**
Chain Anchor	Condor	**49CD26**
Concrete Anchor		
Toggle Grip, ¾" Dia.	Honeywell Miller	**3AE98**
Mounted D-Ring and D-Bolt Anchors		
Mounted D-Ring, Weld-On or Bolt-On, 4½" x 2" Plate with ½" Holes	Condor	**35KU73**
Mounted D-Ring, Bolt-On, 4½" x 2" Plate with ½" Holes	Condor	**35KU72**
Mounted Stainless Steel D-Ring, Bolt-On, 4½" x 2" Plate with ½" Holes	Condor	**45J296**
Permanent D-Ring Bolt Anchor, ½" dia., ⅞" Working Thickness	Condor	**30HG83**
Bolt-On D-Ring Anchor, ⅝" dia. Hole	Condor	**49CD19**
Beam Anchor and Toggle Anchor		
Trailing I-Beam Anchor, Adjustable Width 3" to 13"	Condor	**36MF78**
Beam Anchor, Fits Flanges ½" to 2" Thick and Widths of 4½" to 12"	Falltech	**49CD38**
Toggle Anchor for I-and H-Beams Up to 1¼" Flange	Falltech	**49CD28**

36MW07

36MW12

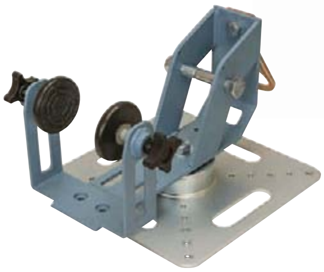
19F358


36MW11

36MF74

36MW09

36MF77


36MF79

19F359

36MF80

36MF81

FALLTECH Fall Protection. Precision Engineered.

Anchorage Connectors

- Tensile strength: 5000 lb., except 3600 lb. for 36MF79 and 36MF81

Pass-Thru Anchor—Great for I-beams and other rated structural members. A 3" wear pad provides cut and abrasion resistance.

Sling Anchors—Use with I-beams and other rated structural members. Forged alloy steel hardware.

36MW12 is an economical and lightweight anchor sling with heavy-duty polyester webbing. 19F358 and 36MW08 are excellent in harsh environments, with high-strength cable that provides superior cut/abrasion resistance.

Wire Hook Anchor—Squeeze-open anchor is easily installed. For use only in overhead applications.

Suspended Cable Anchor—Designed to provide a single-person fall arrest or restraint anchor point in surfaces such as steel decking, concrete, and grating. Anchoring plate is 6" x 6" x ¼".

Concrete Anchors—Web Anchor is made for pour-in-place concrete applications. Constructed to resist the abrasion common with rebar form work.

Rotating Bracket models are multiuse anchors featuring a reusable zinc-plated steel anchor plate with an integral 360° self-orienting D-ring.

Adjustable Rotating SRD Anchor—Fall arrest/restraint anchor with 360° rotation mounts to wood or metal roofs or steel decking to extend the capability of personal cable self-retracting devices (SRDs, sold separately). Connection D-ring allows attachment of horizontal or vertical lifeline systems.

Beam Anchors—For use on overhead I-beams.

36MF78 has nylon slider pads and ratcheting design with thumb latches. 19F359 has dual aluminum locknut jaws, center D-ring, and aluminum hex bar. Tool-less installation. 36MW10 features heavy-duty steel frame and wheels for temporary or permanent installation on closed-end horizontal beams.

Parapet Wall and Window/Door Jamb Anchors— Connectors install without fasteners to provide temporary anchorage.

Parapet Wall Anchor is for use on 9" and higher parapet walls, ½" to 15" thick. Window/Door Jamb Anchor adjusts to 21" to 51" openings to provide fall arrest/restraint anchorage.

Description	Mfr. Model	Item No.
Pass-Thru Anchor		
Polyester Web Strap with Loop, 4 ft.	7348	**36MW07**
Sling Anchors		
Single-D Web Choker Strap, 6 ft.	7272	**36MW12**
Carabiner Sling Anchor, Vinyl Coated Cable, 6 ft.	84202DC	**19F358**
Carabiner Sling Anchor, ¼" Galvanized Cable, 4 ft.	84202D4	**36MW08**
Wire Hook Anchor		
Fits 2" to 3" Pipe Dia.	7402	**36MW11**
Suspended Cable Anchor		
½" dia. Galvanized Steel Cable, 8½ ft.	749485	**36MF74**
Concrete Anchors		
Web Anchor, 4-ft. with Jacketed Loop and O-Ring	7448	**36MW09**
Rotating Bracket with D-Ring	7451AC	**36MF77**
Screw Anchor with Rotating D-Ring Bracket	7451A	**36MF75**
Expansion Bolt with Rotating D-Ring Bracket	7451C	**36MF76**
Adjustable Rotating SRD Anchor		
11"L x 11"W x 8"D with Rear-Mounted D-Ring	7395A	**36MF79**
Beam Anchors		
Clamp with Adjustable Width, 3" to 13" Flange Size	7533	**19F359**
Beam Trolly, Adjustable Width, 3" to 8" Flange Size	7711	**36MW10**
Parapet Wall and Window/Door Jamb Anchors		
Wall Anchor	7460A	**36MF80**
Window/Door Jamb Anchor	7465A	**36MF81**

2UZE1

2UZF5

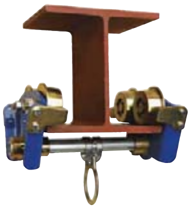
2UZE8

39AL05

2UZE5

2UZE3

2UZD7


2UZE6

DBI SALA

Anchorage Connectors

- Meet OSHA and ANSI standards, except 2UZE8 does not meet ANSI

Tie-Off Adapters—Anchor a fall protection device to overhead locations. Steel Cable Choker 2UZF5 has dual O-ring pass-thru.

Roof Anchors—Solid anchorage without damaging roof. 39AL05, for membrane and built-up roofs, has a swiveling anchorage ring. Base plate is 16"W x 16"H.

D-Ring Anchor—For permanent anchorage connection.

Concrete Anchors—For vertical or overhead/ceiling surface applications. 3TNH9 has quick-release button for instant anchor removal.

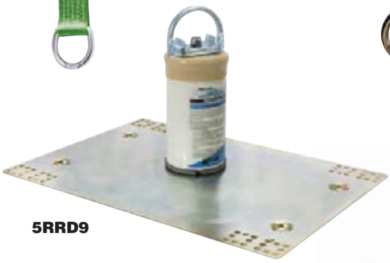
Beam Anchors—Fixed Anchor 2UZF4 works horizontally and slides to provide horizontal mobility. 2UZE6 provides horizontal mobility and fits I-beam flanges.

Description	Mfr. Model	Item No.
Tie-Off Adapters		
Polyester Web Strap, 3 ft.	1003000	**2UZE1**
Polyester Web Strap, 6 ft.	1003006	**2UZE2**
Steel Cable Choker, 4 ft.	5900550	**2UZF5**
Roof Anchors		
Reusable - Hinged with (20) 16D Nails	2103676	**2UZE8**
Reusable - Bracket with Chain and D-Ring	2103673	**2UZE7**
Concrete Roof Top Anchor	2100133	**39AL05**
D-Ring Anchor		
With Anchorage Plate	2101630	**2UZE5**
Concrete Anchors		
Temporary Anchor Strap	2100050	**2UZE3**
Reusable D-Ring	2104560	**2UZD7**
Reusable D-Ring with 5 Bolts	2104561	**2UZD8**
Reusable with Quick-Connect Release	2100085	**3TNH9**
Beam Anchors		
Fixed, Fits 2½" to 12" Flange	2108406	**2UZF4**
Trolly, Fits 3" to 8" Flange	2103143	**2UZE6**

K3347

4RC58

5PB32


5RRD9

19D203

5RRE2

Honeywell MILLER

Anchorage Connectors

Cross-Arm Anchors—Wrap around I-beams and other structures. Web straps have a D-ring that slips through a web loop or D-ring. Cross-Arm Chain 3ZL96 is great for harsh environments. Meet applicable OSHA, ANSI, and CSA standards.

Beam Hook Anchor—Large snap hook and D-ring accommodate the connecting device.

Roof Anchors—Reusable roof anchors are for use on steep-pitched or flat wood surfaces. Permanent roof anchors are for use on wood members and sheathing. Meet applicable OSHA and ANSI standards. 5PB32 and 1RK97 are CSA Certified.

Roof Posts—Stainless steel construction with plated steel wiring. Meet applicable OSHA and ANSI standards.

Mounted D-Bolt Anchors—For permanent anchorage connection. Meet applicable OSHA and ANSI standards. 4RC55 is CSA Certified.

Description	Mfr. Model	Item No.
Cross-Arm Anchors		
Polyester Web Strap with Loop, 6 ft.	T7314/6FTAF	**5WG66**
Polyester Web Strap, 6 ft.	8183/6FTGN	**K3347**
Chain, 6 ft.	440/6FT	**3ZL96**
Beam Hook Anchor		
Steel Hook with Adjustable 20-ft. Extension Pole	475/	**4RC58**
Roof Anchors		
Reusable with Screws	RA20-1/	**36FF26**
Permanent Mount with 2 D-Rings (For Single User)	RA40/	**5PB32**
Reusable - Bracket with Chain and O-Ring for Steep-Pitched or Flat Surfaces	RA30-1/	**1RK97**
Roof Posts		
For Membrane and Built-up Roofs	X10030	**5RRD9**
For Standing Seam Roofs	X10002	**19D203**
Mounted D-Bolt Anchors		
⅝" dia., 4" Working Thickness	416/	**4RC55**
⅝" dia. with Concrete Expansion Anchor	417C/	**5RRE2**

K3320

5RPY9

Honeywell MILLER

Horizontal and Vertical Lifeline Systems

- Meet OSHA, ANSI, and CSA standards

HORIZONTAL SYSTEMS

TechLine™
- Accommodate 2 users

Designed for applications where an overhead anchorage is not present. Include waterproof bucket for safe and dry storage.

SkyGrip® Kits with Anchors

Connections at each end attach to vertical anchorage points.

Xenon®
- Accommodate 2 users

Permanent systems provide automatic pass-through fall protection. Stainless steel components.

VERTICAL SYSTEMS

Vi-Go™ Ladder Climbing System
- Accommodates 4 users

Permanently installed flexible cable system with automatic pass-through provides fall protection for fixed ladder applications. Does not require a cable guide. Easy 1-handed attachment/detachment. Accommodates ⅜" cable. Fall arrestors sold separately.

GlideLoc®

Rigid rail systems are permanent with minimal maintenance required. Fall arrestors sold separately.

Description	L	Item No.
Horizontal Systems		
TechLine™		
Include (2) 3" x 10 ft. Polyester Cross-Arm Anchorage Straps, 1¹⁄₁₆" dia. Kernmantle Lifeline, Lifeline Adjuster, Shock Absorber, Snap Hook, and 2 Connection O-Rings,	30 ft	K3320
	60 ft	K3320
SkyGrip® Kits with Anchors		
Include Lifeline with Energy Absorber, Line Tension Indicator, Turnbuckle Cable, Rope Clip, and 2 D-Bolt Anchors	60 ft	5RRD0
Include Lifeline with Energy Absorber, Line Tension Indicator, Turnbuckle Cable, Rope Clip, and 2 Polyester Cross-Arm Straps (3" x 10 ft.)	60 ft	5RRD4
Xenon®		
Include 4-in-1 Shock Absorber, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	30 ft	5RPX0
Include 4-in-1 Shock Absorber, Intermediate Bracket, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	60 ft	5RPX1
Include 4-in-1 Shock Absorber, 2 Intermediate Brackets, 2 D-Bolt Anchor Connectors, Anchor Shackle, Thimble, Cable Clips, and Hardware (Xenon® Shuttle Sold Separately)	90 ft	5RPX2
Horizontal System Accessories		
Xenon Shuttle with Dual Locking Mechanism for Automatic Pass-Through of Intermediate Brackets	7 in	5RPW7
Universal Intermediate Bracket for Easy Passage of Xenon Shuttle	—	5RPW8
4-in-1 Shock Absorber with Turnbuckle, Line Tension Indicator, and Fall Indicator	—	5RPW9
Vertical Systems		
Vi-Go™ Ladder Climbing System		
Includes Automatic Pass-Through System, Top Bracket with Shock Arrestor, ⅜" Galvanized Steel Cable Wire Lifeline, and Bottom Bracket Assembly with Lifeline Tensioner (Fall Arrestors Sold Separately)	40 ft	K3339
GlideLoc® Ladder Climbing System Kits with Galvanized Rails		
Include GlideLoc® Rail, Gated Top and Bottom End-Stops, Ladder Attachment Brackets, and Hardware (Fall Arrestors Sold Separately)	30 ft	5RPY9
GlideLoc® Ladder Climbing System Kits with Aluminum Rails		
Include GlideLoc® Rail, Gated Top and Bottom End-Stops, Ladder Attachment Brackets, and Hardware (Fall Arrestors Sold Separately)	30 ft	5RPZ7
Vertical Systems Accessories		
Vi-Go™		
Cable Sleeve with Integral Shock Absorber, Swivel, and Carabiner	—	3RCD1

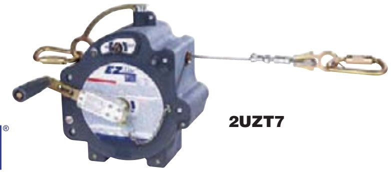
DBI SALA

Lad-Saf™ X2 Detachable Cable Sleeve

Portable sleeve attaches by carabiner to the harness, arrests falls by locking onto the cable. For climbing fixed ladders.

Description	Hardware Material	Mfr. Model	Item No.
Detachable Cable Sleeve for Use with Fixed Ladder Systems	Zinc Plated Steel	6160054	65YH40
	Stainless Steel	6160030	29EZ46

3TNJ1



2UZT7

DBI SALA

Horizontal Lifeline Systems

- Each system accommodates up to 2 users

Sayfline™—Includes 1¹⁄₁₆" kernmantle rope lifeline assembly with tensioning device, 2 tie-off adapters, and carrying bag.

EZ-Line™ Retractable—¼" lifeline with 2 carabiners attaches to any 5000-lb. rated anchorage connector or stanchion.

Description	Mfr. Model	Item No.
Sayfline™, 60-ft. Rope Assembly	7600506	3TNJ1
EZ-Line™ Retractable, 60-ft. Cable Assembly	7605060	2UZT7

PROTECTA

Portable Horizontal Lifeline System

- User-rated for up to 2 users
- Meets OSHA standards

Lightweight system easily installs without special tools or equipment. Attaches to 5000-lb. rated anchorage points.

Includes	L	Mfr. Model	Item No.
Web Lifeline with Tensioner and Shock Absorber, (2) 6-ft. Tie Off Adapters, and Carrying Bag	60 ft	1200101	6ZLL4

Full-Body Harnesses

Condor

- Meet ANSI standards
- Capacity: 425 lb.

Designed for construction and industrial environments, featuring load-impact indicators and lanyard keepers. Constructed of high-strength polyester webbing and alloy steel hardware. Fully adjustable fit with subpelvic strap.

Cross-Over harnesses' triangle shape and tangle-free design helps make donning fast and easy. They have front D-rings for climbing and side D-rings for work positioning applications.

Standard and General Industry—Practical harnesses are designed and equipped to provide adjustability, fit, and value for a wide range of fall protection applications.

General Industry models are designed for the professional user, and offer durability and long life. Adjustments are fast and easy with the friction roller torso adjusters. Belted models feature padded waist support and include tool belt and shoulder pads.

Heavy-Duty models are particularly durable to meet the requirements of demanding professional users.

Premium Comfort Construction-Grade—Construction-grade harnesses have combined D-ring locations to suit multiple fall protection applications. Premium comfort features include a padded torso yoke for shoulders and back and a breathable air mesh shoulder yoke with integral nonslip dorsal D-ring adjustment.

Positioning and retrieval models are configured for job-specific fall protection without sacrificing full adjustability and durable service life. Friction roller torso adjusters and the padded yoke allow fast, easy adjustment and help keep harnesses tangle-free.

Accessories—D-Ring Extenders provide longer reach to ease connecting energy-absorbing lanyards and self-retracting lifelines. 30HG84 choke-loop design reduces weight on the dorsal D-ring.

45J297 attaches to most full-body harnesses and helps reduce stress on the body while suspended, waiting for rescue after a fall. Fully adjustable.

Standard, Nonbelted 19F376

General, Belted H3933

Premium Comfort, Belted J1408

Premium Comfort, Nonbelted/Retrieval Shoulder D-Rings 35KU77

Suspension Trauma Relief System 45J297

Description	D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	Color	Item No.
Standard Industry									
Nonbelted	Yes	No	No	None	MB	MB	Universal	Black	**19F376**
Nonbelted	Yes	No	No	None	MB	MB	XL/2XL	Black	**45J275**
Nonbelted	Yes	No	No	MB	MB	MB	Universal	Blue	**19F377**
Nonbelted	Yes	No	No	MB	MB	MB	XL/2XL	Blue/Black	**45J276**
Nonbelted	Yes	No	No	MB	TB	MB	Universal	Blue/Black	**19F378**
Nonbelted	Yes	No	No	MB	TB	MB	XL/2XL	Blue/Black	**45J277**
Nonbelted, Positioning	Yes	No	Yes	MB	MB	MB	Universal	Blue/Black	**19F379**
Nonbelted, Positioning	Yes	No	Yes	MB	MB	MB	XL/2XL	Blue/Black	**45J278**
Nonbelted Climbing/Positioning	Yes	Yes	Yes	MB	MB	MB	S/M	Blue/Black	**45J279**
Standard Industry Cross-Over Design									
Nonbelted, Climbing	Yes	Yes	No	MB	MB	None	Universal	Blue/Black	**30HG88**
Nonbelted, Climbing	Yes	Yes	No	MB	MB	None	XL/2XL	Blue/Black	**30HG89**
Climbing/Positioning	Yes	Yes	Yes	MB	MB	None	Universal, XL/2XL	Blue/Black	**K2163**
General Industry									
Nonbelted	Yes	No	No	PT	TB	MB	Universal	Blue	**19F380**
Nonbelted	Yes	No	No	PT	TB	MB	XL	Blue/Black	**45J280**
Nonbelted, Positioning	Yes	No	Yes	PT	TB	MB	Universal	Blue	**19F381**
Nonbelted, Positioning	Yes	No	Yes	PT	TB	MB	XL	Blue/Black	**45J281**
Belted	Yes	No	Yes	PT	TB	MB	S/M, L/XL	Blue/Black	**H3933**
Premium Comfort Construction-Grade									
Nonbelted	Yes	No	No	PT	TB	MB	Universal, XL/2XL	Red	**J1405**
Nonbelted	Yes	No	No	PT	QC	QC	Universal, XL/2XL	Red	**J1406**
Nonbelted	Yes	No	No	PT	QC	QC	Universal, XL	Blue/Black	**H3932**
Belted, Positioning	Yes	No	Yes	PT	QC	QC	S, M, L, XL	Blue/Black	**H3934**
Belted, Positioning	Yes	No	Yes	PT	TB	MB	S/M, L/XL	Red	**J1407**
Belted, Positioning	Yes	No	Yes	PT	QC	QC	S/M, L/XL	Red	**J1408**
Premium Comfort Construction-Grade Cross-Over Design									
Climbing/Positioning	Yes	Yes	Yes	PT	QC	None	Universal, XL/2XL	Blue	**J1404**
Premium Comfort Construction-Grade, Retrieval/Shoulder D-Rings									
Nonbelted	Yes	No	No	PT	QC	QC	Universal	Black	**35KU77**
Accessories									
D-Ring Extender, 18"L with Choke Loop									**30HG84**
D-Ring Extender, 18"L with Double Lock Snap Hook									**45J294**
Suspension Trauma Relief System									**45J297**

** PT = pass through; MB = mating buckle; QC = quick connect; TB = tongue buckle.*

Protecta® Pro™ Full-Body Harnesses

PROTECTA

- Meet ANSI standards
- Tensile strength: 3600 lb.
- Capacity: 420 lb.

Comfortable X-design. The fixed D-ring helps reduce the need for readjustment throughout the workday. Lanyard keeper holds excess line to prevent tripping and entanglements. J6572 to J6574 are vest-style harnesses; great for general-purpose applications. J6553 and J6555 have an easy-link web adapter that allows easy attachment of personal self-retracting lifelines and keeps the D-ring available for lanyards, overhead self-retracting lanyards (SRLs), or rescue devices.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	Item No.
Climbing, Positioning							
Yes	Yes	Yes	None	Mating	Mating	S, M/L, XL	**J6572**
Yes	Yes	Yes	None	TB	Quick-Connect	S, M/L, XL	**J6573**
Yes	Yes	Yes	None	Quick-Connect	Quick-Connect	S, M/L, XL	**J6574**
Positioning							
Yes	No	Yes	None	TB	Mating	S, M/L, XL, 2XL	**J6553**
Construction							
Yes	No	Yes	None	TB	PT	M/L	**J6553**
Positioning							
Yes	No	Yes	None	TB	Quick-Connect	S, M/L, XL, 2XL	**J6555**

** PT= pass thru; TB = tongue buckle.*

J6572

J6553

Vest Style Harness G4557

Construction Harness G4559

Wind Energy Climbing Harness G4560

Arc-Rated Harness G2387

DBI SALA

ExoFit NEX™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Designed and constructed for no-tangle donning and a comfortable secure fit. Soft and lightweight, yet durable, with built-in nonslip shoulder, hip, and leg padding. Breathable, moisture-wicking lining keeps wearer dry. 1-handed Revolver™ vertical torso buckles provide easy adjustment of shoulder straps. Duo-Lok™ quick-connect buckles adjust with memory fit feature and allow adjustments to lock in place. Molded protective shell components prevent abrasion and wear and tear in targeted areas. Repel technology webbing reduces attraction of mold and dirt. Integrated suspension trauma straps provide quick pressure relief after a fall. Molded break-away lanyard keeper easily accepts larger snap hooks.

Vest Style—Harness includes Tech-Lite™ aluminum back D-ring.

Construction—Include Tech-Lite™ aluminum back and side D-rings, tongue buckle legs, and integrated hip padding with belt and lumbar wear protection.

Wind Energy Climbing—Feature a radio and Lad-Saf® sleeve holster on the front and removable tool loops on the belt, enabling the wearer to carry equipment while climbing a tower. Include aluminum front, back, and side D-rings and integrated hip padding with belt and lumbar wear protection.

- Meet CSA and CE requirements

Arc-Rated 40 cal/cm² HRC 4—Nomex®/Kevlar® construction with flame-resistant and nonconductive properties. Include PVC-coated aluminum back D-ring and comfort padding.

- Meet ASTM F887-05 arc flash standard and CSA requirements

D-Ring			Buckles*		▶CHOOSE:	Item
Back	Front	Side	Leg	Chest	Size	No.
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL, 2XL, 3XL	**G4557**
Construction						
Yes	No	Yes	TB	QC	S, M, L, XL, 2XL	**G4558**
Yes	No	Yes	QC	QC	S, M, L, XL, 2XL	**G4559**
Wind Energy Climbing						
Yes	Yes	Yes	TB	QC	S, M, L, XL	**G4560**
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G5719**
Arc-Rated 40 cal/cm² - HRC 4						
Yes	No	No	QC	QC	S, M, L, XL, 2XL	**G2386**
Yes	No	Yes	QC	QC	S, M, L, XL	**G2387**

** QC = quick connect; TB = tongue buckle.*

Construction/ General Industry Harness J5474

Tower Climbing Harness J5475

DBI SALA

ExoFit STRATA™ Full-Body Harnesses

- Meet OSHA and ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Packed with safety technology, these full-body harnesses are not just among the safest on the market, but they're also designed to be among the most-comfortable and lightweight. The breathable PolarMesh™ back pad helps keep you cool, and the proprietary LIFTech™ Load Distribution System redistributes weight to help reduce forces on your shoulders by up to 85% compared to leading competitor harnesses. Additional features include Tech-Lite™ Aluminum Side and Dorsal D-Rings for security without extra weight, an EZ-Link™ Quick SRL Adapter for easy self-retracting line connecting and disconnecting. Tri-Lock Revolver™ Connectors store excess webbing to help provide an extra layer of security around your legs. With an impact indicator and integrated suspension trauma straps.

D-Ring			Buckles*			▶CHOOSE:	Item
Back	Front	Side	Shoulder	Leg	Chest	Size	No.
Construction/General Industry							
Yes	No	Yes	None	QC	QC	S, M, L, XL, 2XL	**J5473**
Yes	No	Yes	None	TB	QC	S, M, L, XL, 2XL	**J5474**
Tower Climbing							
Yes	Yes	Yes	None	QC	QC	S, M, L, XL, 2XL	**J5475**

** QC = quick connect; TB = tongue buckle.*

For more MIG Consumables go to Grainger.com and search for "mig consumables".

ExoFit™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Lightweight, durable polyester web harness is X-shaped to wrap around the wearer's body. Designed for max. comfort, freedom of movement, and ease of use. Vest-style harness is easy to put on and has shape retention memory. 5-pt. adjustment provides a better fit. Breathable lining makes harness comfortable for all-day use. Quick-connect buckles are color coded and provide 1-handed operation.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles Leg*	Buckles Chest*	▶CHOOSE: Size	Item No.
ExoFit™						
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL	**G4561**
Yes	Yes	No	QC	QC	S, M, L, XL	**G4562**
Yes	No	Yes	QC	QC	S, M, L, XL	**G4563**
Wind-Energy						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4574**
Wind-Energy with Hip Pad, Belt, and Lumbar Support						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4575**
Confined-Space with Shoulder D-Rings						
Yes	No	No	QC	QC	S, M, L, XL	**G4576**
Construction						
Yes	No	Yes	QC	QC	S, M, L, XL	**G4577**
Tower-Climbing						
Yes	Yes	Yes	QC	QC	S, M, L, XL	**G4578**
ExoFit™ XP						
Vest Style						
Yes	No	No	QC	QC	S, M, L, XL	**F8469**
Construction						
Yes	No	Yes	QC	QC	S, M, L, XL	**G4579**
Yes	No	Yes	TB	QC	S, M, L, XL	**G4580**
Trauma Strap						
Suspension Trauma Safety Strap						**2UZP7**
Accessories						
ExoFit™ 11-Pocket Tool Pouch						**2UZP8**

** QC = quick connect; TB = tongue buckle.*

ExoFit Vest Style—Built-in nonslip shoulder, hip, and leg padding stays in place. Soft edging provides enhanced comfort and mobility. Fixed back D-ring.

ExoFit Wind-Energy—Feature built-in back and leg padding, plus protective hip padding. Built-in lanyards hold tools and equipment so hands remain free. D-rings are PVC coated.

ExoFit Confined-Space—Shoulder D-rings allow use in confined-space entry/rescue applications.

ExoFit Construction—Has the same features as ExoFit, with hip pad and belt for use with tool pouches. Side D-rings for work positioning allow hands-free operation.

ExoFit Tower-Climbing—Front D-ring connects to permanent ladder safety systems. Removable seat sling provides suspension and added comfort.

ExoFit XP—Removable shoulder, back, and leg cushioned padding allows harness to be washed. 3-D mesh lining eliminates odor and mildew. Adjustable spring-loaded, stand-up back D-ring enables connections to be made without straining. Integral lanyard keeper holds excess line to prevent tripping and entanglements.

ExoFit XP Construction—Harnesses have the same features as ExoFit XP, plus a hip pad and belt with loops for use with tool pouches. Side D-rings for work positioning allow hands-free operation.

Trauma Strap—Allows suspended worker to stand up in harness to relieve pressure. Continuous loop design allows 1- or 2-ft. suspension. Attaches to most harnesses.

Vest Style Harness G4561

Tower-Climbing Harness G4578

XP Harness F8469

XP Construction Harness G4579

Delta™ Full-Body Harnesses

- Meet ANSI standards
- Tensile strength: 6000 lb.
- Capacity: 420 lb.

Durable polyester webbed construction repels water and resists abrasion. Delta No-Tangle™ design holds the shape of the harness, making it easier to put on. Revolver™ torso adjusters provide fast, secure fit. Padded spring-loaded stand-up back D-ring provides extra comfort throughout the neck, shoulders, and back and allows for quick and easy connections.

Standard and Positioning Vest Style—Good for general purpose applications. Models with side D-rings are also for work positioning. 2UZJ2 and 2UZJ1 have belt loops for separate belt attachment.

Cross-Over—The triangular-shaped, tangle-free design simplifies speedy donning. Front D-rings are for climbing, and side D-rings are for positioning applications.

Construction—Shoulder and hip padding with belt allows use with tool pouches. Side D-rings for positioning.

High-Visibility Work Vest—Reflective orange vest has a built-in harness. Meets ANSI/ISEA Class 2.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Leg	Buckles* Chest	Size	Item No.
Delta™ Standard						
Yes	No	No	Mating	Mating	Universal	**2UZJ4**
Yes	No	No	TB	Mating	Universal	**2UZH7**
Yes	No	No	TB	Mating	Universal	**2UZJ2**
Yes	No	No	QC	QC	Universal	**2UZP6**
Delta™ Positioning						
Yes	No	Yes	Mating	Mating	Universal	**2UZJ5**
Yes	No	Yes	TB	Mating	Universal	**2UZH8**
Yes	No	Yes	TB	PT	Universal	**2UZJ1**
Delta™ Cross-Over						
Yes	Yes	No	Mating	None	Universal	**2UZH9**
Yes	Yes	Yes	Mating	None	Universal	**2UZJ3**
Delta™ Construction						
Yes	No	Yes	TB	Mating	M	**3TND4**
Yes	No	Yes	TB	Mating	L	**2UZH6**
Yes	No	Yes	TB	Mating	XL	**4EGP7**
Delta™ High-Visibility Work Vests						
Yes	No	No	TB	Mating	Universal	**2UZJ9**

** PT = pass through; QC = quick connect; TB = tongue buckle.*

Vest-Style 2UZH7

Cross-Over 2UZH9

High-Visibility Work Vest 2UZJ9

Titan™ II Nonstretch Full-Body Harnesses

- ANSI Z359.11 compliant
- Tensile strength: 5000 lb.
- Capacity: 400 lb.

Durable non-stretch harnesses provide affordable lightweight fall protection for workers in the general construction, manufacturing, and oil and gas (refinery) industries, and similar fields. The harnesses feature easy vertical adjustability that stays in place, and a slip resistant back D-ring pad. Forward-positioned side D-rings help keep your tool bags in the right place for easy access, while Hi-Viz orange color webbing provides improved visibility for increased worksite safety. J5478 features lighter, strategically-placed padding for optimal airflow while working at heights and a removable tool belt that stays in position when disconnected, even when tools are attached.

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Leg	Buckles* Chest	▶CHOOSE: Size	Item No.
Standard Nonstretch						
Yes	No	No	MB	MB	L/XL	**49XM24**
Yes	No	No	MB	MB	L/XL	**K3308**
Yes	No	Yes	MB	MB	L/XL	**49XM25**
Yes	No	Yes	MB	MB	L/XL	**K3309**
Yes	No	No	TB	MB	S/M, L/XL, 2XL	**J5477**
—	—	—	TB	MB	3XL	**J5477**
Contractor Nonstretch						
—	—	—	TB	MB	2XL	**J5478**
Yes	No	Yes	TB	MB	S/M, L/XL	**J5478**

** MB = mating buckle; TB = tongue buckle.*

K3309

J5478

For more MIG Consumables go to Grainger.com and search for "mig consumables".

Honeywell MILLER

Nonstretch Full-Body Harnesses

- Meet ANSI and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.
- Universal size (L/XL)

Feature lightweight polyester webbing with subpelvic straps for added support. Sliding back D-ring with D-ring pad provides added comfort. Pull-free lanyard ring allows user to attach lanyard when not in use.

Miller® Contractor— Include back and shoulder pads for additional comfort. Removable waist belt accommodates tool pouches.

Miller® Arc-Rated— Designed with Kevlar® webbing and leather insulators under all-metal hardware for additional protection. Meets ASTM F887-05 arc flash standard. For more arc-rated products, see page 1725.

D-Ring			Buckles*			Mfr.	Item
Back	Front	Side	Shoulder	Leg	Chest	Model	No.
Miller®							
Yes	No	No	FB	MB	MB	850/UYK	**1D815**
Yes	No	No	FB	TB	MB	850-4/UYK	**6AR84**
Yes	No	Yes	FB	MB	MB	850-7/UYK	**1D814**
Miller® Contractor							
Yes	No	No	FB	TB	MB	650CN-BP/UGN	**2KUC1**
Yes	No	Yes	FB	TB	MB	650CN-BDP/UGN	**2KUA9**
Miller® Arc-Rated							
Yes	No	No	FB	QC	QC	850KQC/UBK	**5RRE4**

** FB = friction belt; MB = mating buckle; QC = quick connect; TB = tongue buckle.*

Harness 1D815

Contractor Harness 2KUC1

Honeywell MILLER

DuraFlex® Full-Body Harnesses

- Meet ANSI and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.
- Universal size (L/XL)

Synthetic elastomer webbed harness stretches to provide maximum comfort and mobility and conforms to shape of user. Pull-free lanyard ring allows lanyard to be attached when not in use. Stand-up D-ring allows simple attachment.

DuraFlex®— Solid color leg webbing straps. 3ZL79 and 3ZL73 have loops for optional tool belt attachment.

DuraFlex Ultra®— Same features as the DuraFlex harness with comfort-touch back D-ring pad with breathable fabric webbing.

DuraFlex Python®— Lightweight harnesses feature cushioned tubular webbing for shoulders. Stretchable DuraFlex webbing in the lower torso offers greater worker mobility.

DuraFlex Python Ultra®— Same features as the DuraFlex Python with comfort-touch D-ring pad with breathable fabric webbing and contoured edges for added comfort. 4GE88 includes body belt.

D-Ring			Buckles*			Mfr.	Item
Back	Front	Side	Shoulder	Leg	Chest	Model	No.
DuraFlex®							
Yes	No	No	FB	MB	MB	E650/UGN	**3ZL79**
Yes	No	No	FB	TB	MB	E650-4/UGN	**3ZL73**
Yes	No	Yes	FB	MB	MB	E650-7/UGN	**3ZL81**
Yes	No	Yes	FB	TB	MB	E650-58/UGN	**3ZL75**
Yes	No	No	FB	MB	MB	E850-2/UGN	**K3262**
DuraFlex Ultra®							
Yes	No	No	FB	QC	QC	E650QC/UGN	**E1704**
Yes	No	Yes	FB	QC	QC	E650QC-7/UGN	**4GE90**
Duraflex Python®							
Yes	No	No	FB	MB	MB	P950/UGN	**K3263**
Yes	No	No	FB	TB	MB	P950-4/UGN	**K3264**
Yes	No	Yes	FB	TB	MB	P950-58/UGN	**1RK91**
DuraFlex Python Ultra®							
Yes	No	No	FB	QC	QC	P950QC/UGN	**4GE87**
Yes	No	Yes	FB	QC	QC	P950QC-7/UGN	**K3277**
Yes	No	Yes	FB	QC	QC	P950QC-77/UGN	**4GE88**

** FB = friction buckle; MB = mating buckle; QC = quick connect; TB = tongue buckle.*

DuraFlex® Harness K3262

DuraFlex Python® Harness K3264

Full-Body Harnesses

FALLTECH Fall Protection. Precision Engineered.

- Meet ANSI standards
- Capacity: 425 lb.

Hi-Vis Vests— Features include internal donning cloak for tangle-free use, subpelvic straps, and front and rear pockets. G4013 is made of standard contractor-grade reflective material. G4014 is made of open-weave mesh with a breathable lining and meets ANSI Class 2 standards.

Arc-Rated— Comply with ASTM F887, OSHA 1926, and ANSI Z-359.1 requirements.

D-Ring Extender— 18" Kevlar® webbing with insulated D-ring and choke loop helps maintain continuous arc flash protection when attached to the dorsal D-ring or loop of an arc flash harness.

Tool Leashes— Abrasion-resistant webbing and aluminum or steel carabiners keep dropped tools from striking lower levels. Max. tool capacity 15 lb.

Description	Item No.
D-Ring Extender	
18"L Kevlar® Webbing	**36MF83**
Tool Leashes	
Standard Tool Leash	**19F367**
Tool Leash with 2 Carabiners	**19F368**
Tool Leash with SpeedClip	**19F369**
Tool Leash with Screw Lock Gate	**19F370**

D-Ring			Buckles*			▶CHOOSE:	▶CHOOSE:	Item
Back	Front	Side	Shoulder	Leg	Chest	Size	Color	No.
Hi-Vis Vests								
Yes	No	No	MB	MB	MB	S/M, L/XL	Lime, Orange	**G4013**
Yes	No	Yes	MB	TB	MB	S/M, L/XL	Lime	**G4014**
Arc-Rated								
Web Loop	No	No	MB	MB	MB	Universal	Black	**45J061**
Yes	No	No	MB	MB	MB	Universal	Black	**45J060**

** MB = mating buckle, TB = tongue buckle.*

Arc-Rated Harness 45J061

Hi-Vis Vest Harness G4014

Honeywell
Miller

AirCore™ Full-Body Harnesses

Standard Harness H3503

- Meet ANSI and CSA standards
- Tensile strength: 5000 lb.
- Weight capacity: 400 lb.

Lightweight construction helps reduce fatigue for increased productivity. Comfortable, stylish design encourages compliance.

Contoured padding is strategically placed at lumbar, neck, and inner thighs. Proprietary, breathable open-core pad construction reduces heat and moisture to help keep the wearer cool and comfortable. Lumbar pad is replaceable on select models.

DuraFlex® stretchable webbing improves mobility. Low-profile cam buckles allow fast, easy, simultaneous shoulder web adjustment.

The front D-ring extends performance and comfort for climbing, confined space, and rescue operations.

Models with aluminum hardware are 20% lighter than steel models and corrosion-resistant for longer service life and reduced replacement costs.

Certain models feature a removable belt with leather guide that is functional and comfortable.

Leather bos'n chair with select models provides an adjustable, rigid work seat; also available separately.

Tower Climbing Harnesses—Engineered for comfort and easy adjustability on cell phone, TV, radio, and utility towers.

Wind Energy Harnesses—Customized, lightweight design helps keep workers safe and comfortable for reduced fatigue and all-day endurance while building and servicing wind turbines. The replaceable lumbar pad features nonmarring materials to protect the harness and the wall of the turbine from damage.

Oil and Gas Harness—Designed as an all-day harness for everyday tasks on drilling or service rigs and in the oil fields and various harsh environments. 18" extended back D-ring is an easy-to-reach attachment point for multiple uses, leaving the stand-up back D-ring as another connection point. Enhanced lumbar padding and expanded front waist padding provide increased comfort and support. Choose a seat sling or bos'n chair for added support and reduced wearer fatigue.

Tower Climbing Harness with Removable Bos'n Chair H7538

Wind Energy Harness with Removable Lumbar Pad and Belt J1494

Oil and Gas Harness with Removable Seat Sling J1484

Harness Style/ Hardware Material	D-Ring			Buckles*			▶CHOOSE: Size	▶CHOOSE: Color	Item No.
	Back	Front	Side	Shoulder	Leg	Chest			
AirCore™ Standard									
Steel	Yes	No	No	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3503**
Steel	Yes	No	No	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3500**
Steel	Yes	No	Yes	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3502**
Steel	Yes	No	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3499**
Steel	Yes	Yes	No	CB	QC	QC	S/M, 2XL/3XL, L/XL	Green, Blue	**J1482**
Steel	Yes	Yes	No	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1489**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, 2XL/3XL, L/XL	Blue, Green	**J1483**
Steel	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1485**
Aluminum	Yes	No	No	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6127**
Aluminum	Yes	No	No	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6124**
Aluminum	Yes	No	Yes	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6126**
Aluminum	Yes	No	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6123**
Aluminum	Yes	Yes	No	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**J1487**
Aluminum	Yes	Yes	No	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green, Blue	**J1481**
Aluminum	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, S/M, L/XL	Green, Blue	**J1486**
Aluminum	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL	Blue, Green	**J1490**
Removable Lumbar Pad and Belt									
Aluminum	Yes	Yes	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Blue, Green	**J1480**
Steel	Yes	No	Yes	CB	TB	QC	S/M, L/XL, 2XL/3XL	Green	**H3501**
Steel	Yes	No	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H3498**
Steel	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL, S/M	Blue, Green	**J1488**
Steel	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, S/M, L/XL	Green, Blue	**J1706**
Steel	Yes	No	Yes	CB	TB	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6125**
Steel	Yes	Yes	Yes	CB	TB	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1492**
Steel	Yes	No	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Green, Blue	**H6122**
AirCore™ Tower Climbing									
Standard									
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7531**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7535**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7533**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7537**
Removable Bos'n Chair with Side D-Rings									
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7532**
Steel	Yes	Yes	Yes	CB	QC	QC	S/M, 2XL/3XL	Blue	**H7536**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Green	**H7534**
Aluminum	Yes	Yes	Yes	CB	QC	QC	S/M, L/XL, 2XL/3XL	Blue	**H7538**
AirCore™ Wind Energy									
Removable Lumbar Pad and Belt									
Steel	Yes	Yes	Yes	CB	QC	QC	L/XL, S/M, 2XL/3XL	Blue, Green	**J1493**
Aluminum	Yes	Yes	Yes	CB	QC	QC	2XL/3XL, L/XL, S/M	Green, Blue	**J1494**
AirCore™ Oil and Gas									
Removable Seat Sling with Side D-Rings									
Steel	Yes	Yes	Yes	CB	TB	MB	S/M, 2XL/3XL, L/XL	Green, Blue	**J1484**
Removable Bos'n Chair with Side D-Rings									
Steel	Yes	Yes	Yes	CB	TB	MB	2XL/3XL, L/XL, S/M	Blue, Green	**J1491**
AirCore™ Tower Harness Accessories									
Tool Loops, Pkg. of 10									**31XM18**
AirCore™ Tower Climbing Harness Accessories									
Bos'n Chair with Steel D-Rings									**31XM19**
Bos'n Chair with Aluminum D-Rings									**31XM20**
AirCore™ Wind Energy Harness Accessory									
Lumbar Wear Pad									**38TD64**
AirCore™ Oil and Gas Harness Accessories									
Bos'n Chair with Steel Side D-rings									**38TC86**

** CB = cam buckle; QC = quick connect; TB = tongue buckle.*

Honeywell MILLER

Miller Revolution™ Full-Body Harnesses

- Meet ANSI, and CSA standards
- Tensile strength: 6000 lb.
- Capacity: 400 lb.

Durable harnesses have flexible, 2-sided polyester webbing with contrasting color. Shape retention memory and independent upper- and lower-torso adjustments make them comfortable enough to wear all day. Web finials' clip-on design organizes webbing after proper adjustment. Highly visible encapsulated pack protects label. Stand-up D-ring allows easy attachment. Back shield conforms to most body shapes, keeps back D-ring in proper position, and minimizes impact from snap hooks and self-retracting lifelines. Cam buckle permits 1-handed adjustment or release simultaneous with shoulder strap (except 2KUC2 has friction buckle shoulder straps). PivotLink™ Connection rotary design allows harnesses to move with the body. Provides attachment point for belts, tools, and accessories. Fall indicators take the guesswork out of when to take harnesses out of service. Flexible belt pads on 5PA95 to 5PA98 minimize absorption and maintain optimal air circulation during positioning.

Revolution™ Construction—Designed to meet the durability requirements for construction applications while providing all-day comfort. Feature back and shoulder padding and modular accessory attachment system.

Revolution™ Arc-Rated—Insulated against electrical shock, with fire-retardant Kevlar® webbing and leather under all hardware. 1XEN8 and 3PRU1 have front rescue loops. 3PRU1 has pad and removable belt. For more Arc-Rated products, see page 1725.

Revolution™ Vinyl-Coated—Ideal for dirty environments such as petrochemical and water treatment plants. Resists physical deterioration resulting from exposure to a variety of liquids and maintains overall performance level.

Relief Step™ Safety Device—Allows suspended worker to stand up in harness to enhance blood circulation and prevent suspension trauma after a fall. Small, lightweight unit attaches to any full-body harness.

Revolution™ Harness K3287

Revolution™ Harness with Pad and Removable Belt K3295

Revolution™ Construction Harness K3278

Revolution™ Arc-Rated Harness K3298

Revolution™ Vinyl-Coated Harness 2KUC2

Relief Step™ Safety Device 5PB18 (Harness Sold Separately)

Tool Belt 5PB14

D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	Size	Mfr. Model	Item No.
Revolution™								
Yes	No	No	CB	QC	QC	L/XL	RDT-QC/UBK	**K3287**
Yes	No	No	CB	TB	QC	L/XL	RDT-TB/UBK	**K3294**
Revolution™ with Pad								
Yes	No	Yes	CB	QC	QC	L/XL	RDT-QC-DP/UBK	**K3290**
Yes	No	Yes	CB	TB	QC	L/XL	RDT-TB-DP/UBK	**K3296**
Revolution™ with Pad and Removable Belt								
Yes	No	Yes	CB	QC	QC	L/XL	RDT-QC-BDP/UBK	**K3289**
Yes	No	Yes	CB	TB	QC	L/XL	RDT-TB-BDP/UBK	**K3295**
Revolution™ Construction								
Yes	No	No	CB	MB	MB	L/XL	R10CN-MB/UGN	**K3278**
Yes	No	No	CB	TB	MB	L/XL	R10CN-TB/UGN	**K3280**
Revolution™ Construction with Pad and Removable Belt								
Yes	No	Yes	CB	MB	MB	L/XL	R10CN-MB-BDP/UGN	**K3279**
Yes	No	Yes	CB	TB	MB	L/XL	R10CN-TB-BDP/UGN	**K3281**
Revolution™ Arc-Rated								
Web Loop	No	No	CB	QC	QC	L/XL	RKNAR-QC/UBK	**K3298**
Web Loop	No	No	CB	QC	QC	L/XL	RKNARRL-QC/UBK	**K3300**
Yes	No	Yes	CB	QC	QC	L/XL	RKNARRL-QC-BDP/UBK	**K3301**
Revolution™ Vinyl-Coated								
Yes	No	No	FB	TB	MB	L/XL	RPC-TB/UGN	**2KUC2**
Relief Step™ Safety Device								
Relief Step™							9099X/1	**5PB18**
Accessories								
Universal Belt Attachment Clip							RIA-C2/1	**5PB13**
Stretchable Tool Holder							9077X	**5PB17**
Tool Belt w/Pad and Attachment Clips							RIA-B2/	**5PB14**

** CB = cam buckle; FB = friction buckle; MB = mating buckle; QC = quick connect; TB = tongue buckle.*

Body Belt

Condor

Belt can be used for personal restraint applications that do not require fall arrest, or pair with a nonbelted full-body harness for work positioning applications. Polyester web with 4" reinforced waist pad, removable heavy-duty tongue-buckle belt, and 2 side D-rings.

▶CHOOSE: Fits Waist Size	Item No.
S, M, L, XL	**H7937**

Body Belts

Honeywell MILLER

Polyester web belts have a tongue buckle and provide users with positioning alternatives when fall arrest is not required.

F8634

Description	▶CHOOSE: Fits Waist Size	Mfr. Model	Item No.
Single D-Ring	S, M, L, XL	123N	**F8634**
Single D-Ring with Back Pad	S, M, L, XL, 2XL	3NA	**E1709**
Single D-Ring	2XL	123N/XXLBK	**F8634**

Condor

Personal Fall Limiter

- Meets ANSI standards
- Capacity: 310 lb.

Helps reduce total fall and deceleration distance. Steel frame with PVC cover. 2"W webbing with snap hook and swiveling carabiner. Features internal braking system.

SRL Length	Item No.
8 ft.	**19F393**

Honeywell MILLER

Retractable Webbing Lanyard

Compact design keeps webbing retracted and out of the way. Brakes instantly to limit free falls. Swivel shackle prevents twisting. Includes carabiner for attaching to anchor point.

SRL Length	Mfr. Model	Item No.
10 ft.	8327-Z7/10FTYL	**36WA07**

1XET6

1XET5

5RPT0

2KUA6

K3328

Honeywell MILLER

Personal Fall Limiters and Cab-Mount Bracket

- Meet ANSI and CSA standards

PERSONAL FALL LIMITERS (PFLs)

Self-retracting lanyards with polyester webbing and quick-activating brake systems eliminate the need for extended fall distance clearance. 6-ft. working length is suitable for most applications; 9-ft. length is great for scaffolding and order picker applications; 11-ft. length offers maximum mobility.

Harness connectors have 3600-lb. gate strength unless noted as 5K (5000 lb.). Connectors are made of steel unless noted as aluminum.

MiniLite®—Lightweight stainless steel interior components with high-impact thermoplastic housing.

Scorpion™—Can be attached directly to the harness D-ring for use as a personal fall limiter or as a traditional lifeline.

Turbo T-BAK™ Retractable Tie-Back—All-in-1 design with anchorage connector reduces the amount of equipment required on a jobsite.

TurboLite™—Impact-resistant nylon housing is compact and lightweight. Unit attaches directly to harness back D-ring for increased mobility.

Twin Turbo™ Systems—Allow 2 TurboLite or Turbo T-BAK tie-back retractable PFLs to be connected to a single harness for 100% tie-off fall protection. Systems with D-ring connector easily attach to noncoated metallic back D-rings. Systems with lightweight G2 connector attach to harness webbing below the D-ring, leaving it open for other equipment. G2 Connector Kit and components are available separately. 49U980 includes 1 each of 49U981, 49U982, and 49U983.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
Personal Fall Limiters (PFLs)						
MiniLite®						
11 ft.	1	—	Steel Snap Hook	310 lb	FL11-Z7/11FT	**45JJ97**
11 ft.	1	Carabiner, Swivel Shackle	Steel Snap Hook	310 lb	FL11-3-Z7/11FT	**1XET6**
Scorpion™						
9 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb	PFL-4-Z7/9FT	**1XET5**
9 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb	PFL-5/9FT	**3AE97**
Turbo T-BAK™ Retractable Tie-Back						
7 ft. 6"	1	5K® Snap Hook	—	400 lb	MFLT-1/7.5FT	**19D179**
7 ft. 6"	1	5K® Snap Hook	Steel Carabiner	400 lb	MFLT-2/7.5FT	**5RPR9**
7 ft. 6"	1	5K® Snap Hook	Aluminum Carabiner	400 lb	MFLT-3/7.5FT	**5RPT0**
7 ft. 6"	1	5K® Snap Hook	Snap Hook	400 lb	MFLT-5/7.5FT	**19D181**
TurboLite™						
6 ft.	1	Steel Snap Hook	Steel Carabiner	400 lb	MFL-1-Z7/6FT	**2KUA6**
6 ft.	1	Steel Rebar Hook	Steel Carabiner	400 lb	MFL-2-Z7/6FT	**3RCC5**
6 ft.	1	Aluminum Snap Hook	Aluminum Carabiner	310 lb	MFL-11-Z7/6FT	**K3321**
6 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	400 lb	MFL-12-Z7/6FT	**K3322**
9 ft.	1	Steel Snap Hook	—	400 lb	MFL-3-Z7/9FT	**K3324**
9 ft.	1	Aluminum Snap Hook	—	400 lb	MFL-16-Z7/9FT	**49U954**
9 ft.	1	Steel Snap Hook	Steel Carabiner	400 lb	MFL-1-Z7/9FT	**K3323**
9 ft.	1	Aluminum Snap Hook	Aluminum Carabiner	400 lb	MFL-11-Z7/9FT	**K3321**
9 ft.	1	Steel Snap Hook	Steel Snap Hook	400 lb	MFL-9-Z7/9FT	**K3326**
9 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	400 lb	MFL-12-Z7/9FT	**K3322**
Twin Turbo™ System with D-Ring Connector						
6 ft.	2	Steel Snap Hook	Snap Hook	400 lb	MFLB-3-Z7/6FT	**5RPR5**
6 ft.	2	Steel Rebar Hook	Snap Hook	400 lb	MFLB-4-Z7/6FT	**5RPR6**
7 ft. 6"	2	5K® Snap Hook	Aluminum Snap Hook	400 lb	MFLTB-1/7.5FT	**5RPT2**
Twin Turbo™ System with G2 Connector						
6 ft.	2	Steel Snap Hook	Snap Hook	400 lb	MFLC-3-Z7/6FT	**K3329**
6 ft.	2	Steel Rebar Hook	Snap Hook	400 lb	MFLC-4-Z7/6FT	**49U965**
6 ft.	2	Aluminum Snap Hook	Snap Hook	400 lb	MFLC-11-Z7/6FT	**K3327**
6 ft.	2	Aluminum Rebar Hook	Snap Hook	400 lb	MFLC-12-Z7/6FT	**K3328**
9 ft.	2	Steel Snap Hook	Snap Hook	400 lb	MFLC-3-Z7/9FT	**K3329**
9 ft.	2	Aluminum Rebar Hook	Snap Hook	400 lb	MFLC-12-Z7/9FT	**K3328**
7 ft. 6"	2	5K® Snap Hook	Steel Swivel Snap Hook	400 lb	MFLTC-1/7.5FT	**49U979**
Turbolite™ Extreme						
6 ft.	1	Steel Snap Hook	Aluminum Carabiner	420 lb	MFLEC-3/6FT	**K3331**
9 ft.	1	Steel Snap Hook	Steel Snap Hook	420 lb	MFLEC-3/9FT	**K3331**
9 ft.	2	Steel Rebar Hook	Aluminum Carabiner	420 lb	MFLEC2-4/9FT	**53CV26**
Turbolite™ Max						
9 ft.	1	Steel Snap Hook	Aluminum Carabiner	420 lb	MFLEW-3/9FT	**K3335**
6 ft.	2	Aluminum Rebar Hook	Steel Swivel Snap Hook	420 lb	MFLEW2-12/6FT	**K3332**
9 ft.	2	Aluminum Rebar Hook	Steel Swivel Snap Hook	420 lb	MFLEW2-12/9FT	**K3333**

Self-Retracting Lifelines

- Meet ANSI standards, except 425-lb. models

Provide fall arrest for work locations with distant anchorage points and/or limited clear fall distances.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Item No.
Compact SRLs					
3/4"W HPPE, Polyester Blend Web with Housing					
6 ft.	1	Aluminum Snap Hook	Steel Carabiner	310 lb	**35KU99**
6 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb	**35KU97**
6 ft.	1	Aluminum Rebar Hook	Aluminum Captive Eye Carabiner	310 lb	**35KV02**
6 ft.	1	Steel Rebar Hook	Steel Carabiner	310 lb	**35KU98**
6 ft.	1	Aluminum Rebar Hook	Steel Carabiner	310 lb	**35KV01**
6 ft.	2	Aluminum Snap Hook	Carabiner	310 lb	**35KV05**
6 ft.	2	Steel Snap Hook	Carabiner	310 lb	**35KV03**
6 ft.	2	Aluminum Rebar Hook	Carabiner	310 lb	**35KV06**
6 ft.	2	Steel Rebar Hook	Carabiner	310 lb	**35KV04**
9 ft.	1	5K® Carabiner	Steel Carabiner	310 lb	**49CD22**
9 ft.	2	5K® Carabiner	Carabiner	310 lb	**49CD23**
3/16" dia., Stainless Steel Cable with Housing					
9 ft.	1	Swivel Shackle	Steel Carabiner	310 lb	**49CD33**
3/16" dia., Galvanized Steel Cable with Housing					
9 ft.	1	Swivel Shackle	Steel Carabiner	310 lb	**49CD32**
3/4"W HPPE, Polyester Blend Web with Housing					
10 ft.	1	Steel Snap Hook	Steel Carabiner	310 lb	**35KV07**
10 ft.	1	Aluminum Snap Hook	Aluminum Captive Eye Carabiner	310 lb	**35KV09**
10 ft.	1	Steel Rebar Hook	Steel Rebar Hook	310 lb	**35KV08**
10 ft.	1	Aluminum Rebar Hook	Aluminum Captive Eye Carabiner	310 lb	**35KV10**
Contractor SRLs					
3/16" dia., Galvanized Steel with Housing					
20 ft.	1	Steel Carabiner	Steel Carabiner	310 lb	**22RT98**
30 ft.	1	Steel Carabiner	Steel Carabiner	310 lb	**22RT99**
50 ft.	1	Steel Carabiner	Steel Carabiner	310 lb	**22RU01**
3/16" dia., Galvanized Steel Cable with Housing					
20 ft.	1	Steel Carabiner	Steel Carabiner	425 lb	**35KU80**
30 ft.	1	Steel Carabiner	Steel Carabiner	425 lb	**35KU81**
50 ft.	1	Steel Carabiner	Steel Carabiner	425 lb	**35KU82**
Contractor SRL LE (Leading Edge)					
7/32" dia., Galvanized Steel Cable with Housing					
30 ft.	1	Steel Carabiner	Steel Carabiner	310 lb	**49CD34**

Condor

Compact SRLs— Lightweight, rugged devices are offered in 6-, 9-, and 10-ft. lengths with a choice of leg-end connectors in steel or aluminum. 6-ft. models feature external energy absorbers in one- and two-leg versions. 9- and 10-ft. models feature internal inertial brake system.

Contractor SRLs— Feature swivel-action load-indicating carabiner for back D-ring connection and an integral carriage/attachment handle. Heavyweight 425-lb. models meet OSHA 1926.502.

Contractor SRL LE (Leading Edge)— Designed to reduce the risk of cable failure when contacting an edge during a fall event.

35KV06

49CD22

35KV07

22RT98

35KU82

Self-Retracting Lifelines

Honeywell
Miller

- Meet ANSI and CSA standards

Quick-activating braking system stops free falls, providing a safe and quick rescue. Steel connectors with 3600-lb. gate strength. No annual factory recertification required.

Black Rhino™—Small, lightweight housing holds corrosion-resistant stainless steel and aluminum components. Withstands harsh environments.

MightyLite™—Durable, corrosion-resistant stainless steel and aluminum housing. Install overhead; great for hard-to-mount locations.

MightyLite™ LE—Arrestors feature integrated shock-absorbing packs designed for leading edge (LE) applications. Rated for up to a 310-lb. user in LE applications and up to a 400-lb. user when mounted overhead. Models with Kevlar® packs are for use in LE welding applications.

Falcon™—Ultra-durable units have impact-resistant nylon housing with stainless steel and aluminum components.

DuraSeal™—All units come with a cable sling with carabiner (not shown). The cable sling can be used as the primary anchorage connector for carabiner mounted units. It can also be used as a secondary anchorage that can be attached to the handle of the unit.

Falcon™ Edge—Up to 30% lighter than similar models to help ease installation and reduce worker fatigue. 420H88 to 420H90 have an integrated shock absorber with a flame retardant cover that resists weld splatter in welding applications.

SRL Length	No. of Legs	Anchorage Hook Type	Weight Cap.	Mfr. Model	Item No.
Black Rhino™, 3/16" Stainless Steel Cable					
9 ft.	1	Carabiner, Swivel Shackle	310 lb	CFL-4-Z7/9FT	**1XET7**
MightyLite™, 1" Polyester Web					
20 ft.	1	Steel Carabiner	310 lb	RL20P-Z7/20FT	**2JFD4**
MightyLite™, 3/16" Galvanized Steel Cable					
30 ft.	1	Steel Carabiner	310 lb	RLS30G-Z7/30FT	**2JFD1**
50 ft.	1	Steel Carabiner	310 lb	RL50G-Z7/50FT	**2JFD3**
100 ft.	1	Steel Carabiner	310 lb	RL100G-Z7/100FT	**2JFC9**
MightyLite™, 3/16" Stainless Steel Cable					
20 ft.	1	Steel Carabiner	310 lb	RL20SS-Z7/20FT	**36WA08**
130 ft.	1	Steel Carabiner	310 lb	RL130SS-Z7/130FT	**36WA16**
MightyLite™ LE, 3/16" Galvanized Steel Cable					
20 ft.	1	Steel Carabiner	400 lb	RL20G-Z7LE/20FT	**45J012**
30 ft.	1	Steel Carabiner	310 lb	RLS30G-Z7/LE/30FT	**45J013**
50 ft.	1	Steel Carabiner	310 lb	RL50G-Z7LE/50FT	**45J014**
65 ft.	1	Steel Carabiner	310 lb	RL65G-Z7/LE/65FT	**45J015**
MightyLite™ LE, 3/16" Galvanized Steel Cable and Kevlar® Shock-Absorbing Packs					
20 ft.	1	Steel Carabiner	310 lb	RL20G-Z7LEK/20FT	**45J016**
30 ft.	1	Steel Carabiner	310 lb	RLS30G-Z7LEK/30FT	**45J017**
50 ft.	1	Steel Carabiner	310 lb	RL50G-Z7LEK/50FT	**45J018**
65 ft.	1	Steel Carabiner	310 lb	RL65G-Z7LEK/65FT	**45J019**
Falcon™, 3/16" Galvanized Steel Cable					
20 ft.	1	Steel Carabiner	310 lb	MP20G-Z7/20FT	**1XET8**
30 ft.	1	Steel Carabiner	310 lb	MP30G-Z7/30FT	**1XET9**
50 ft.	1	Steel Carabiner	310 lb	MP50G-Z7/50FT	**1XEU1**
Falcon™, 3/16" Stainless Steel Cable					
65 ft.	1	Steel Carabiner	310 lb	MP65SS-Z7/65FT	**36WA22**
Falcon™ Edge, 7/32" Galvanized Steel Cable					
20 ft.	1	Carabiner, Swivel Shackle	420 lb	MP20G-LE	**420H85**
30 ft.	1	Carabiner, Swivel Shackle	420 lb	MP30G-LE	**420H86**
50 ft.	1	Carabiner, Swivel Shackle	420 lb	MP50G-LE	**420H87**
Falcon™ Edge, 7/32" Galvanized Steel Cable and Kevlar® SofStop Pack					
20 ft.	1	Carabiner, Swivel Shackle	420 lb	MP20G-LEK	**420H88**
30 ft.	1	Carabiner, Swivel Shackle	420 lb	MP30G-LEK	**420H89**
50 ft.	1	Carabiner, Swivel Shackle	420 lb	MP50G-LEK	**420H90**
DuraSeal™ with Cable Sling					
50 ft.	1	Steel Carabiner	420 lb	SSRL50G1	**49XM28**
100 ft.	1	Steel Carabiner	420 lb	SSRL100G1	**49XM30**
130 ft.	1	Steel Carabiner	420 lb	SSRL130G1	**49XM32**
175 ft.	1	Steel Carabiner	420 lb	SSRL175G1	**49XM34**
50 ft.	1	Steel Carabiner	420 lb	SSRL50S1	**49XM29**
100 ft.	1	Steel Carabiner	420 lb	SSRL100S1	**49XM31**
130 ft.	1	Steel Carabiner	420 lb	SSRL130S1	**49XM33**
175 ft.	1	Steel Carabiner	420 lb	SSRL175S1	**49XM35**
DuraSeal™ with Cable Sling and 4-Hole Mounting Plate					
100 ft.	1	Steel Carabiner	420 lb	SSRL100G2	**49XM36**
130 ft.	1	Steel Carabiner	420 lb	SSRL130G2	**49XM38**
175 ft.	1	Steel Carabiner	420 lb	SSRL175G2	**49XM40**
100 ft.	1	Steel Carabiner	420 lb	SSRL100S2	**49XM37**
130 ft.	1	Steel Carabiner	420 lb	SSRL130S2	**49XM39**
175 ft.	1	Steel Carabiner	420 lb	SSRL175S2	**49XM41**

1XET7

2JFC9

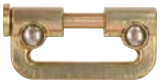
36WA22

45J012

49XM38

Accessories

Twin Leg
16V473



Cab Mount
16V474

Single Leg
16V475

Each Nano-Lok SRL has an integrated anchorage loop to let you install anchorage connections such as these and leave the harness dorsal D-ring open for other equipment or rescue.

Nano-Lok™
16V464

Talon™
3TNH1

Ultra-Lok®
2UZZ5

Ultra-Lok® RSQ
5KCX2

Sealed-Blok™
3TNE7

DBI SALA

Self-Retracting Lifelines

NANO-LOK™

- Meet ANSI standards, except Tie-Back

Standard—Light, compact units feature an impact-resistant housing with swiveling anchorage loop and automatic quick-activating arrestor.

45WA80 is designed for welding, grinding, and other high-heat applications. It has flame-resistant Kevlar®/Nomex® fiber webbing and is arc rated APTV 8 cal./cm².

Tie-Back—Units incorporate a 36" tie-back leg, to eliminate the need for a separate anchor connector, tie-off adapter, or scaffold choker. UV-resistant nylon housing.

LE (Leading Edge)—Designed for safety and comfort in foot-level tie-off and sharp-edge applications. Weight-dispersing energy absorber and 360°-rotating connector attach directly to harness, leaving the D-ring open. 2-leg SRLs provide 100% tie-off.

Connectors—Use to secure a Nano-Lok SRL directly to a full-body harness webbing, leaving the back D-ring available.

TALON™

- Meet ANSI and CSA standards (except No. DBI3102100 does not meet ANSI)

Standard—Compact design with quick-connect handle for direct attachment to anchorage or harness.

Tie-Back—Eliminate the need for a separate anchorage connector. Built-in lanyard keepers and hook-and-loop attachment fit most harnesses.

Cab Mount Bracket—Connects directly to the cab for convenient anchorage point.

ULTRA-LOK®

- Meet ANSI standards

Corrosion-resistant stainless steel components with durable polyurethane housing. Antiratcheting, twin disc brake system limits arresting forces.

ULTRA-LOK® RSQ

- Meet ANSI standards

Provide fall arrest with assisted rescue capabilities and automatic self rescue. Constructed of reinforced plastic and include built-in carrying handle.

SEALED-BLOK™

- Meet ANSI and CSA standards

Fully sealed design protects working components, enhances safety, and extends working life.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
Nano-Lok™						
Standard, 25⁄32" Nylon Webbing						
6 ft.	1	—	Snap Hook	420 lb	3101252	**16V466**
6 ft.	1	Carabiner	Snap Hook	420 lb	3101215	**16V464**
6 ft.	1	Aluminum Carabiner	Snap Hook	420 lb	3101214	**16V465**
6 ft.	1	Carabiner	Steel Rebar Hook	420 lb	3101217	**16V467**
6 ft.	1	Aluminum Carabiner	Aluminum Rebar Hook	420 lb	3101236	**16V468**
6 ft.	2	Snap Hook	Quick Connect	420 lb	3101279	**16V471**
6 ft.	2	Snap Hook	Quick Connect	420 lb	3101276	**16V469**
6 ft.	2	Aluminum Rebar Hook	Quick Connect	420 lb	3101277	**16V470**
6 ft.	2	Steel Rebar Hook	Quick Connect	420 lb	3101280	**16V472**
Standard 25⁄32" Kevlar®/Nomex Webbing						
6 ft.	1	Carabiner	Snap Hook	420 lb	3101498	**45WA80**
Tie-Back, 25⁄32" Nylon Webbing						
9 ft.	1	Snap Hook	Quick Connect	420 lb	3101366	**46W460**
9 ft.	2	Snap Hook	Quick Connect	420 lb	3101374	**46W459**
LE (Leading Edge) with 3⁄16" Galvanized Cable						
8 ft.	1	Carabiner	Quick Connect	420 lb	3500214	**19TR91**
8 ft.	2	Carabiner	Swivel Snap Hook	420 lb	3500229	**19TR85**
8 ft.	1	Snap Hook	Quick Connect	420 lb	3500210	**19TR89**
8 ft.	2	Snap Hook	Quick Connect	420 lb	3500225	**19TR83**
8 ft.	1	Aluminum Snap Hook	Aluminum Captive Eye Carabiner	420 lb	3500215	**19TR92**
8 ft.	1	Aluminum Rebar Hook	Quick Connect	420 lb	3500216	**19TR93**
8 ft.	2	Aluminum Rebar Hook	Quick Connect	420 lb	3500231	**19TR81**
8 ft.	1	Steel Rebar Hook	Steel Carabiner	420 lb	3500212	**19TR90**
8 ft.	2	Steel Rebar Hook	Quick Connect	420 lb	3500227	**19TR82**
8 ft.	1	Swivel Snap Hook	Snap Hook	420 lb	3500211	**19TR87**
8 ft.	2	Swivel Snap Hook	Quick Connect	420 lb	3500226	**19TR84**
LE (Leading Edge) 3⁄16" Kevlar®/Galvanized Steel Cable						
9 ft.	1	5K® Snap Hook	Tie-Back	420 lb	3500213	**19TR88**
9 ft.	2	5K® Snap Hook	Tie-Back	420 lb	3500228	**19TR80**
Nano-Lok™ Connectors						
For Use with Nano-Lok Single Leg Self-Retracting Lanyards						
—	1	—	—	420 lb	3100088	**16V475**
For Use with Nano-Lok Twin Leg Self-Retracting Lanyards						
—	—	—	—	420 lb	3100087	**16V473**
For Use with Nano-Lok Single Leg Self-Retracting Lanyards						
—	—	—	—	—	3100089	**16V474**
Talon™						
Standard, ¾" Nylon Webbing						
8 ft.	1	Swivel Snap Hook	Steel Rebar Hook	310 lb	3101000	**3TNG7**
8 ft.	1	Swivel Snap Hook	Carabiner	310 lb	3101001	**3TNG8**
Tie-Back, ¾" Nylon Webbing						
9 ft. 6"	1	—	Quick Connect	310 lb	3101300	**3TNH1**
Tie-Back, 1" Nylon Webbing						
6 ft.	2	Steel Rebar Hook	Quick Connect	310 lb	3102003	**3TNG9**
7 ft. 6"	2	—	Quick Connect	310 lb	3102100	**3TNH2**
Cab Mount Bracket						
8 ft.	1	—	Swivel Snap Hook	310 lb	3101009	**5KCY3**
Ultra-Lok®						
3⁄16" dia. Galvanized Steel Cable						
20 ft.	1	Snap Hook	Swivel Snap Hook	310 lb	3504433	**2UZZ6**
30 ft.	1	Snap Hook	Swivel Snap Hook	310 lb	3504430	**2UZZ5**
50 ft.	1	Snap Hook	Swivel Snap Hook	310 lb	3504450	**2UZZ7**
85 ft.	1	Carabiner	Swivel Snap Hook	310 lb	3504485	**3TNG6**
3⁄16" dia. Stainless Steel Cable						
50 ft.	1	Carabiner	Swivel Snap Hook	310 lb	3504451	**3TNG5**
20 ft.	1	Carabiner	Swivel Snap Hook	310 lb	3504434	**3TNG3**
Ultra-Lok® RSQ, 3⁄16" Galvanized Steel Cable						
50 ft.	1	Carabiner	Swivel Snap Hook	310 lb	3504550	**5KCX2**
Sealed-Blok™, "3⁄16" Stainless Steel Cable"						
15 ft.	1	Carabiner	Swivel Snap Hook	420 lb	3400827	**3TNE7**
30 ft.	1	Carabiner	Swivel Snap Hook	420 lb	3400802	**3TNF1**

36MF89

FALLTECH

DuraTech® Compact Self-Retracting Lifelines

- Meet ANSI standards

SRLs have an internal inertial brake disc system that eliminates the need for an external shock pack. Heavy-duty main spring and abrasion-resistant HPPE webbing deliver long service in the most demanding conditions.

SRL Length	No. of Legs	Anchorage Hook Type	Harness Hook Type	Weight Cap.	Mfr. Model	Item No.
6 ft.	1	Aluminum Snap Hook	Steel Carabiner	310 lb	82706SB4	**36MF89**
6 ft.	1	Aluminum Rebar Hook	Steel Carabiner	310 lb	82706SB5	**36MF90**
6 ft.	1	Aluminum Rebar Hook	Aluminum Carabiner	310 lb	82706S5	**36MF91**
6 ft.	1	Steel Rebar Hook	Steel Carabiner	310 lb	82706SB3	**36MF88**
6 ft.	2	Aluminum Snap Hook	Carabiner	310 lb	82706TB4	**36MF94**
6 ft.	2	Aluminum Rebar Hook	Carabiner	310 lb	82706TB5	**36MF95**
6 ft.	2	Steel Rebar Hook	Carabiner	310 lb	82706TB3	**36MF93**

Rebel™ Self-Retracting Lifelines

PROTECTA

- Meet ANSI standards

Thermoplastic housing is lightweight, compact, and durable. Feature swivel housing, snap hook, and swivel hook. Corrosion-resistant.

6ZLP1

Description	SRL Length	Weight Cap.	Mfr. Model	Item No.
3⁄16" Galvanized Steel Cable	20 ft.	420 lb	3590517	**29GA87**
	33 ft.	420 lb	3590500	**6ZLP1**
	50 ft.	420 lb	3590550	**6ZLP2**
	66 ft.	420 lb	3590590	**6ZLP3**
	100 ft.	420 lb	3590670	**6ZLP4**
3⁄16" Stainless Steel Cable Cable	20 ft.	420 lb	3590504	**29GA88**
1" Nylon Strap	11 ft.	310 lb	3100426	**53CV17**
1" Polyester Strap	6 ft.	310 lb	3100403	**40MC98**
	11 ft.	310 lb	3100425	**40MC86**
	20 ft.	310 lb	3100431	**40MC60**

FALLTECH

Contractor Self-Retracting Lifelines

- Meet ANSI standards

Inertial brake limits deceleration distance. Glass-filled reinforced nylon housing with independent alloy steel frame is rugged yet lightweight. Alloy steel double-locking carabiner and load-indicating swivel carabiner.

Dyneema® is a registered trademark of DSM IP Assets B.V.

19F365

Line Material	Weight Cap.	L	Mfr. Model	Item No.
Galvanized Steel	310 lb	30 ft.	727630	**19F365**
Galvanized Steel	310 lb	50 ft.	727650	**19F366**

19F384 19F388

19F385

45J286

Condor

Polyester Web Shock-Absorbing Lanyards

- Meet ANSI standards, except Heavy User Internal Shock Absorber models

For use as the connecting deceleration element of a personal fall-arrest system.

Standard Internal Shock Absorber—Feature a continuous-length, internal energy-absorbing material jacketed with a durable tubular web. Include impact indicator.

Heavy User Internal Shock Absorber—Additional internal energy-absorbing material limits fall arrest forces experienced by users between 310 and 400 lb. (including tools and equipment).

Tie-Back—Pack-style shock absorber has tie-back D-ring.

Elastic—Expand and contract with wearer's movements to reduce potential entanglements and tripping hazards.

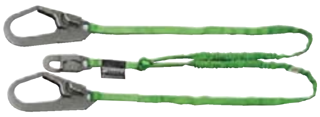
Choker Loop—Provide lightweight, secure attachment to the harness D-ring.

Max. Working Length	No. of Legs	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Weight Cap.	Item No.
Standard Internal Shock Absorber					
6 ft	1	Snap	Snap	310 lb	**19F382**
6 ft	1	Rebar	Snap	310 lb	**19F383**
6 ft	2	Rebar	Snap	310 lb	**19F384**
Heavy User Internal Shock Absorber					
6 ft	1	Snap	Snap	425 lb	**45J289**
6 ft	2	Snap	Snap	425 lb	**45J291**
6 ft	1	Rebar	Snap	425 lb	**45J290**
6 ft	2	Rebar	Snap	425 lb	**45J292**
Tie-Back					
6 ft	1	Snap	Snap	310 lb	**19F388**
6 ft	2	Snap	Snap	310 lb	**19F389**
Elastic					
4 ft 6 in to 6 ft	1	Snap	Snap	310 lb	**19F385**
4 ft 6 in to 6 ft	2	Snap	Snap	310 lb	**19F386**
4 ft 6 in to 6 ft	1	Rebar	Snap	310 lb	**45J282**
4 ft 6 in to 6 ft	2	Rebar	Snap	310 lb	**19F387**
Choker Loop, Standard					
6 ft	1	Snap	Choke	310 lb	**45J286**
6 ft	1	Rebar	Choke	310 lb	**45J287**
6 ft	2	Rebar	Choke	310 lb	**45J288**
Choker Loop, Elasticated					
4 ft 6 in to 6 ft	1	Snap	Choke	310 lb	**45J283**
4 ft 6 in to 6 ft	1	Rebar	Choke	310 lb	**45J284**
4 ft 6 in to 6 ft	2	Rebar	Choke	310 lb	**45J285**

K3343

K3345

45JK17


1XET1

3LCV5

4YF78

36WA06

5RRF4

Honeywell
MILLER

Shock-Absorbing Lanyards

- Meet ANSI standards
- Weight capacity: 310 lb.

Shock-absorbing woven inner core smoothly expands to reduce fall forces. Snap hooks have ¾" gate opening; rebar hooks have 2½" gate opening.

SofStop®—Include back-up safety strap. Vinyl coating on select items prevents absorption of liquids.

Manyard HP™—Tubular outer jacket serves as a back-up lanyard.

Manyard® II—Stretch from 4 to 6 ft. to reduce tripping, snagging, or dragging. Integral red core for easy visual inspection.

BackBiter® Tie-Back—Eliminate the need for a separate anchorage connector. Anchorage snap hook gate load capacity is 5000 lb. from any angle.

StretchStop®—Include SofStop® shock-absorber pack with back-up safety strap. Stretch from 4 to 6 ft. to minimize tripping, snagging, and dragging.

Line Material	Max. Working Length	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Color	Mfr. Model	Item No.
SofStop®								
Nylon Rope	5 ft	1	310 lb	Snap Hook	Snap Hook	White	901RLS-8-Z7/5FT	**K3344**
Nylon Rope	6 ft	1	310 lb	Snap Hook	Snap Hook	White	901RLS-8-Z7/6FTWH	**K3343**
Polyester	3 ft	1	310 lb	(1) Snap Hook	Snap	Green	913WLS-Z7/3FTYL	**K3346**
Polyester	6 ft	1	310 lb	(1) Snap Hook	Snap Hook	Yellow	913WLS-Z7/6FTYL	**K3345**
Polyester	6 ft	2	310 lb	(2) Snap Hooks	Snap Hook	Yellow	8798-Z7/6FTYL	**45JK03**
Polyester	6 ft	2	310 lb	(1) Snap Hook	Rebar	Green	8878T-Z7/6FTGN	**36WA18**
Vinyl-Coated Polyester	6 ft	1	310 lb	Snap	Snap	Green	913PC/6FTGN	**2KUC3**
Vinyl-Coated Polyester	6 ft	2	310 lb	Snap	Snap	Green	8798PC/6FTGN	**2KUC4**
Kevlar®	6 ft	1	310 lb	Rebar	Snap	Gray	933KR-Z7/6FTBK	**36WA20** *
Kevlar®	6 ft	2	310 lb	(2) Rebar Hooks	Web Loop	Black	8799KR-Z7/6FTBK	**45JK17** *
Manyard HP™								
Polyester	6 ft	1	310 lb	Snap	Snap	Green	216TWLS-Z7/6FTGN	**1XER7**
Polyester	6 ft	1	310 lb	Rebar	Snap	Green	219TWRS-Z7/6FTGN	**1XER8**
Polyester	6 ft	2	310 lb	(2) Snap	Snap	Green	232TWLS-Z7/6FTGN	**1XER9**
Polyester	6 ft	2	310 lb	(2) Rebar	Snap	Green	231TWRS-Z7/6FTGN	**1XET1**
Manyard® II								
Kevlar®	4 ft to 6 ft	2	310 lb	(2) Snap Hooks	Web Loop	Black	232MK-Z7/6FTBK	**45JK06** *
Polyester	4 ft to 6 ft	2	310 lb	(2) Rebar	Snap	Green	231M-Z7/6FTGN	**3LCV5**
BackBiter® Tie-Back								
Polyester	6 ft	1	310 lb	5K Snap	Snap	Green	913B/6FTGN	**4YF79**
Polyester	6 ft	2	310 lb	(2) 5K Snap	Snap	Green	8798B/6FTGN	**4YF78**
StretchStop®								
Polyester	4 ft to 6 ft	1	310 lb	(1) Snap Hook	Snap	Green	913SS-Z7/6FTGN	**36WA06**
Polyester	4 ft to 6 ft	1	310 lb	Rebar	Snap	Green	940RSS-RR-Z7/6FTGN	**5RRF3**
Polyester	4 ft to 6 ft	2	400 lb	(2) Rebar	Snap	Green	980RSS-RR-Z7/6FTGN	**5RRF4**

** Meet ASTM F887-05 Arc Flash standard. For more arc-rated products, see page 1725.*

6ZLN2

2UZW1

6ZLN4

6ZLN6

PROTECTA

Pro™ Shock-Absorbing Lanyards

- Meet ANSI standards

Clear cover over shock pack allows easy visual inspection.

Protecta Pro™ Pack—Durable with lightweight construction and enhanced comfort.

Protecta Pro-Stop™—Features polyester tubular web instead of a traditional shock pack.

Protecta Pro™ Stretch—Expand and contract to user's movements and minimize tripping and entanglements.

Line Material	Max. Working Length	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Mfr. Model	Item No.
Protecta Pro™ Pack								
Polyester	6 ft	2	310 lb	Snap	Snap	1342001	1342001	**6ZLN3**
Polyester	6 ft	1	310 lb	5K Carabiner	Snap	1340040	1340040	**6ZLN9**
Polyester	6 ft	2	310 lb	(2) Rebar	Snap	1340180	1340180	**6ZLN2**
Polyester	6 ft	2	310 lb	5K Carabiner	Snap	1340060	1340060	**6ZLP0**
Nylon	6 ft	1	310 lb	Snap	Snap	1341001	1341001	**2UZW1**
Protecta Pro-Stop™								
Polyester	6 ft	1	310 lb	Snap	Snap	1340220	1340220	**6ZLN4**
Protecta Pro™ Stretch								
Polyester	6 ft	2	310 lb	Snap	Snap	1340141	1340141	**6ZLN5**
Polyester	6 ft	2	310 lb	(2) Rebar	Snap	1340161	1340161	**6ZLN6**

Shock-Absorbing Lanyards

- Meet ANSI standards

EZ-Stop™—Lightweight and compact modular design reduces the overall cost of ownership by allowing individual components to be purchased and replaced separately as needed.

EZ-Stop™ Tie-Back 46W446 and 46W447—Single-leg tie-back web has a snap hook at one end and tie-back hook at the other.

EZ-Stop™ Retrax™—Adjustable spring technology retracts lanyard automatically to fit the working area.

EZ-Stop™ III—Tubular webbing integrates the shock-absorbing core. Stretches instead of tearing when subjected to fall-arrest forces.

ShockWave2™—Expand and contract to user's movements to minimize tripping and entanglements.

ShockWave2™ Tie-Back 425Y89—Include the same features as the ShockWave2 with the added versatility of a tie-back to eliminate the need for a separate anchorage connector.

Line Material	Max. Working Length	No. of Legs	Strap Width	Weight Cap.	Locking Anchorage Connection Hook Type	Anchorage Hook Gate Opening	Locking Harness Connection Hook Type	Weight Cap.	Color	Mfr. Model	Item No.
EZ Stop™											
¼" Vinyl-Coated Galvanized Cable	6 ft	1	—	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246188	**46W445**
Polyester Webbing	6 ft	2	1⅜"	310 lb	Rebar	3"	Snap	310 lb	Yellow	1246143	**46W450**
Polyester Webbing with Elastic Legs and Floating D-Rings	6 ft	2	1⅜"	310 lb	Rebar	3"	Snap	310 lb	Yellow	1246152	**46W452**
EZ-Stop™											
Nylon Webbing	6 ft	1	1 3/16"	310 lb	Snap	¾"	Snap	310 lb	Gray	1246229	**46W446**
Nylon Webbing	6 ft	2	1 3/16"	310 lb	Snap	¾"	Snap	310 lb	Gray	1246080	**46W447**
Polyester Webbing	3 ft	1	¾"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246012	**46W440**
Polyester Webbing	6 ft	1	¾"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246011	**46W439**
Polyester Webbing	6 ft	2	1½"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246022	**46W444**
Polyester Webbing	6 ft	1	¾"	310 lb	Rebar	2¼"	Snap	310 lb	Yellow	1246411	**425Y83**
Polyester Webbing, Polyurethane Coated	4 ft	1	1"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246225	**46W442**
Polyester Webbing, Polyurethane Coated	6 ft	1	1"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246226	**46W443**
Polyester Webbing with Adjustable Belt	6 ft	1	¾"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246234	**46W441**
Polyester Webbing with Floating Tie-Back D-Ring	6 ft	1	1"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246085	**46W437**
Polyester Webbing with Floating Tie-Back D-Rings	6 ft	2	1"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246070	**46W438**
EZ Stop™ III											
Polyester Webbing	6 ft	1	1⅜"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1244006	**2UZV4**
Force™ 2											
Elastic Webbing	6 ft	2	1"	310 lb	Rebar	2¼"	Snap	310 lb	Yellow	1246415	**425Y87**
Polyester Webbing	6 ft	1	12"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246167	**46W448**
Polyester Webbing	6 ft	2	12"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1246161	**46W449**
Polyester Webbing	6 ft	2	1⅜"	310 lb	Aluminum Rebar	2½"	Snap	310 lb	Yellow	1246145	**29EZ47**
Polyester Webbing	6 ft	1	1"	310 lb	Rebar	2¼"	Snap	310 lb	Yellow	1246414	**425Y86**
Polyester Webbing with Elastic Legs and Floating D-Rings	6 ft	2	1⅜"	310 lb	Rebar	3"	Snap	310 lb	Yellow	1246153	**46W451**
Retrax™											
Polyester Webbing	2 ft 6 in to 6 ft	1	1⅜"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1241460	**2UZV2**
ShockWave™2											
Polyester Webbing	4 ft 6 in to 6 ft	1	2"	310 lb	Snap	¾"	Snap	310 lb	Yellow	1244306	**2UZV5**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb	(2) Snap	¾"	Snap	310 lb	Yellow	1244406	**2UZV6**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb	Snap	2½"	Snap	310 lb	Yellow	1244412	**2UZV8**
Polyester Webbing	4 ft 6 in to 6 ft	2	2"	310 lb	Aluminum Rebar	2¼"	Snap	310 lb	Yellow	1244409	**2UZV7**
Polyester Webbing	6 ft	1	1⅞"	310 lb	5K Carabiner	¾"	Snap	310 lb	Gray	1244650	**3TNE1**
Polyester Webbing	6 ft	2	1⅞"	310 lb	(2) 5K Carabiner	¾"	Snap	310 lb	Gray	1244675	**3TNE2**
Polyester Webbing	6 ft	1	1 15/16"	310 lb	Rebar	2¼"	Snap	310 lb	Yellow	1246417	**425Y89**
Polyester Webbing with Rescue D-Rings on Legs	6 ft	2	1 15/16"	310 lb	(2) Rebar	2½"	Snap	310 lb	Yellow	1244750	**5KCW8**

Harness Extension and Positioning/Restraint Devices

- Meet ANSI and OSHA standards

Extension hooks to back of harness for self-retracting lifelines and lanyards. Positioning and restraint devices attach to harnesses that include side D-rings to allow hands-free work. Positioning Assembly provides support for workers on vertical surfaces.

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Item No.
D-Ring Harness Extension							
Polyester Web	18 in	—	310 lb	D-Ring	Snap	1231117	**2UZU2**
Positioning Assembly							
Rebar Chain	20 in	2	310 lb	Snap Hook	Snap Hook	5920050	**2UZF7**
Restraint Lanyards							
Polyester Webbing	6 ft	1	310 lb	Snap Hook	Snap Hook	1231106	**2UZU1**
Polyester Webbing	6 ft	1	310 lb	Snap Hook	Snap Hook	1231016	**2UZT9**
Nylon Rope	6 ft	1	310 lb	Snap Hook	Snap Hook	1232354	**2UZU3**

45J295

30HG86

45J293

30HG87

Condor

Positioning/Restraint Devices

- Meet ANSI standards

Rebar positioning devices provide support for workers in vertical applications. Restraint lanyards help keep users away from fall hazards.

Line Material	L	No. of Legs	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Weight Cap.	Item No.
Positioning Assemblies						
Chain Assembly	21 in	2	Rebar Hook	Snap	310 lb.	35KU74
	23 in	2	Swivel Rebar	Snap	310 lb	45J295
Polyester Webbing	24 in	2	Aluminum Rebar Hook	Aluminum Rebar Hook	310 lb	30HG86
Restraint Lanyards						
Polyester Webbing with Adjustable Buckle	6 ft	1	Snap	Snap	425 lb	45J293
	6 ft	2	Rebar Hook	Snap	425 lb	35KU75
Galvanized Steel Cable, ¼" dia.	6 ft	1	Snap	Snap	310 lb	30HG87
Polyester Rope, ⅝" dia.	6 ft	1	Snap	Snap	310 lb	49CD20
	6 ft	1	Rebar Hook	Snap	310 lb	49CD21

2JFD2

36WA36

45JK09

5RRF2

Honeywell
Miller

Positioning/Restraint Devices

- Meet ANSI and CSA standards

Positioning devices support workers on a vertical surface. Restraint Lanyards help keep workers from reaching an unprotected edge, to help prevent falls.

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Harness Connection	Mfr. Model	Item No.
Work Positioning and Restraint Lanyards								
Nylon Webbing with Adjustable Buckle	10 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	210WLS-Z7/10FTYL	K3313
Nylon Webbing, Adjustable	6 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	210WLS-Z7/6FTYL	K3313
Nylon Webbing	6 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	213WLS-Z7/6FTYL	J7536
Wire Rope	6 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	207LS-Z7/6FTG	36WA36
Positioning and Restraint Lanyards								
Vinyl-Coated Wire Rope	6 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	207NLS-Z7/6FTV	36WA38
Nylon Rope, ½" dia.	5 ft	1	310 lb	Carabiner	Snap Hook	Steel Snap Hook	201RS-8-Z7/5FT	45JK09
	6 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	203RLS-8-Z7/6FT	45JK07
	20 ft	1	310 lb	Snap Hook	Snap Hook	Steel Snap Hook	201RLS-2-Z7/20FTWH	K3311
	25 ft	1	310 lb	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/25FTWH	K3316
	50 ft	1	310 lb	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/50FTWH	K3316
	75 ft	1	310 lb	Snap Hook	Snap Hook	Nylon Web Loop	198RLS-2-Z7/75FTWH	K3316
Positioning and Restraint Lanyards for Wind Industry								
Kernmantle Rope ½" dia.	4 ft	1	310 lb	Rebar Hook	Carabiner	Steel Carabiner	1014936/	5RRF1
Kernmantle Rope, ⅝" dia. with Rope Grab	6 ft	1	310 lb	Rebar Hook	Carabiner	Steel Carabiner	1014937/	5RRF2
Positioning Assembly								
Chain Assembly	25 in	2	310 lb	Rebar Hook	Snap Hook	Steel Swivel Snap Hook	6756RS-Z7/	2JFD2

6ZLN8

6ZLN7

PROTECTA

Positioning/Restraint Devices

- Meet ANSI standards

For better positioning when used with harnesses that include side D-rings.

Line Material	L	No. of Legs	Weight Cap.	Locking Anchorage Connection Hook Type	Locking Harness Connection Hook Type	Mfr. Model	Item No.
Nylon Rope	6 ft	1	310 lb	Snap Hook	Snap Hook	1385501	6ZLN8
Galvanized Steel	22 in	2	310 lb	Rebar Hook	Snap Hook	1350200	6ZLN7

Harness D-Ring and Buckle Types

D-RING TYPES
Back D-Ring—Standard with all harnesses for fall protection.

Side D-Rings—Allow hands-free work when used with a positioning lanyard.

Mating Buckle—Push center bar buckle through square link.

Quick-Connect Buckle—Similar to a seat belt.

Front D-Ring—For climbing, confined space, and rescue applications.

BUCKLE TYPES
Friction/Pass-Thru Buckle—Pass webbing through bar and then back between bar and frame.

Tongue Buckle—Similar to a belt buckle.

Cam Buckle—1-handed, simultaneous strap adjustment.

19F395

35KU70

45J298

19F394

35KV11

53RG06

Fall Protection Kits

Condor

- Meet ANSI Z359.1-2007
- 5-pt. harnesses

Personal safety systems combine the ABCs of fall arrest—anchorage, body wear, and connector—in a convenient, ready-to-use kit.

Includes	Size	Weight Cap.	D-Ring Back	D-Ring Front	D-Ring Side	Buckles* Shoulder	Buckles* Leg	Buckles* Chest	Item No.
General Use Kit									
6-ft. Shock-Absorbing Lanyard and Soft-Sided Storage Bag	Universal	310 lb	Yes	No	No	MB	MB	MB	**19F395**
Aerial Lift Kit									
4½-ft. to 6-ft. Adjustable Restraint Lanyard and Soft-Sided Storage Bag	Universal	130 to 310 lb	Yes	No	No	MB	TB	MB	**35KU70**
Roof Anchor Kits									
3-ft. Shock-Absorbing Lanyard with Manual Rope Grab, Reusable Hinged Roof Anchors, 50-ft. Copolymer Lifeline, and Storage Bucket	Universal	310 lb	Yes	No	No	MB	MB	MB	**45J298**
3-ft. Shock-Absorbing Lanyard with Trailing Rope Grab, Reusable Hinged Roof Anchors, 50-ft. Polyester Lifeline, and Storage Bucket	Universal	310 lb	Yes	No	No	MB	TB	MB	**19F394**
Personal Fall Arrest Safety Kit									
3-ft. Pass-Thru Anchor, 10-ft. Self-Retracting Lifeline, and Soft-Sided Storage Bag	Universal	310 lb	Yes	No	No	FB	TB	MB	**35KV11**
High Capacity									
Gear Bag	S/M	310 lb	Yes	No	Yes	FB	TB	MB	**53RG05**
	Universal	310 lb	Yes	No	Yes	FB	TB	MB	**53RG06**

** FB = friction buckle, MB = mating buckle, TB = tongue buckle.*

Honeywell
Miller

Ready Roofer® Fall Protection Kit

- Meets ANSI standards
- Universal size

Use on steep-pitched or flat-surface roofs. Additional roof anchors are located on page 1778.

Includes	Mfr. Model	Item No.
Fully Adjustable, Polyester Web Harness with Back D-Ring and Mating Buckle Leg Straps, 3-ft. Shock-Absorbing Lanyard, Reusable Roof Anchor with Attachment D-Ring, MicroLoc™ Compact Trailing Rope Grab, ⅝" dia. 25-ft. Copolymer Blend Rope Lifeline, and Waterproof and Storage Bucket	BRFK25-Z7/25FT	**45JK11**
Full Body Harness, Lanyard, 50-ft. Rope Lifeline, Anchor Strap, Reusable Roof Anchor, Rope Grab, Manual	BRFKT50-Z7/50FT	**53WC65**

6ZLN0

6ZLN1

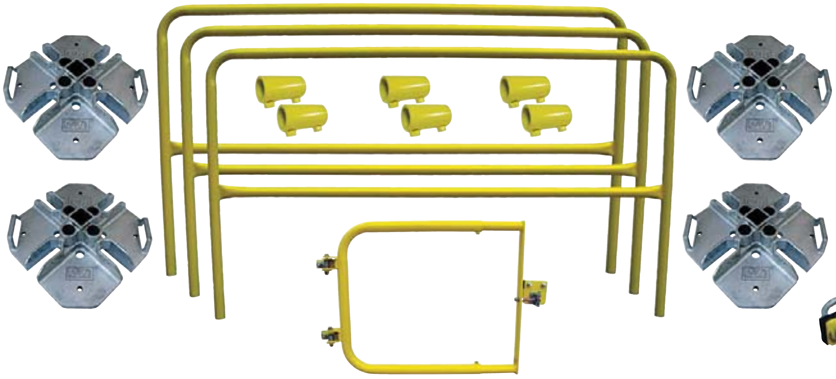
PROTECTA

Fall Protection Kits

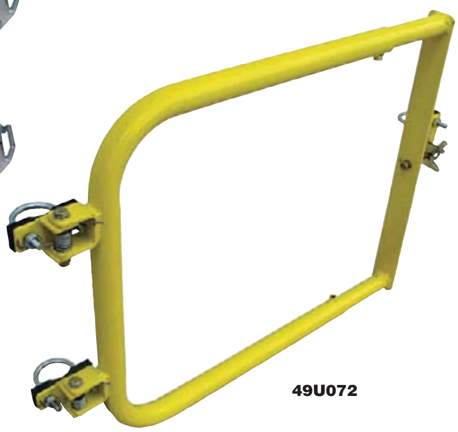
- Meet ANSI Z359.1
- Universal size

For short-term jobs, general compliance, or stand-by inventory. Kit 6ZLN1 is designed for roofers.

Includes	Mfr. Model	Item No.
5-pt. Harness, 6-ft. Lanyard, and Reusable Plastic Carrying Bucket	2199802	**6ZLN0**
5-pt. Harness, 6-ft. Lanyard, 50-ft. Lifeline, Rope Grab, Reusable Roof Anchor, and Plastic Carrying Bucket	2199803	**6ZLN1**



49U073



49U072

DBI SALA

Portable Guardrail System

Helps eliminate fall hazards by preventing personnel from falling to lower levels. Free-standing system doesn't require surface attachment so you can create custom configurations for floor or wall openings, hatchways, manholes, shafts, or truck docks. The simple set-screw design allows easy installation. The durable finish helps resist corrosion for long life.

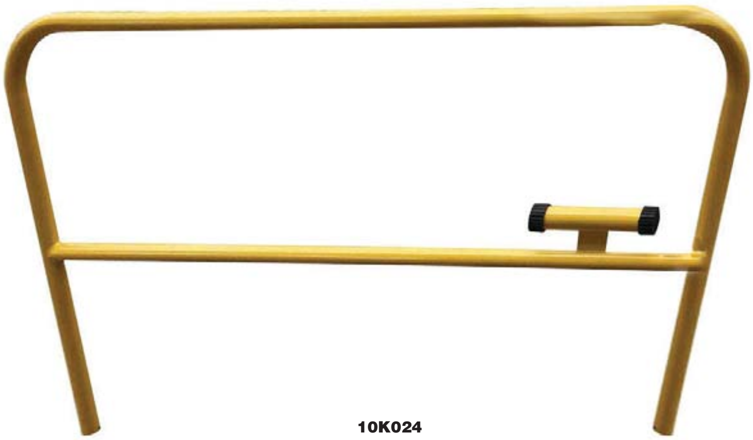
Guardrail Roof Kit—Includes the items you need to create a free-standing safety barrier.

Guardrail Gate—Compact gate is adjustable from 23" to 38"L.

Guardrails—Require Guardrail Base Assembly 5KCX6, sold separately.

Guardrail Base Assembly—Rubber pad on bottom helps provide skid resistance and protects surfaces from damage.

Description	Mfr. Model	Item No.
Guardrail Roof Kit		
Includes (4) Guardrail Bases, Swing Gate, (3) Splice Kits, (3) 6 ft. Guardrails	7900008	**49U073**
Guardrail Gate		
Includes (2) Hinges, Latch Gate Clamp, 38"L x 42"H	7900007	**49U072**
Guardrails		
Portable Guardrail Section, Yellow Alloy Steel, 6 ft.	7900061	**5KCX7**
Portable Guardrail Section, Yellow Alloy Steel, 8 ft.	7900062	**5KCX8**
Portable Guardrail Section, Yellow Alloy Steel, 10 ft.	7900063	**5KCX9**
Guardrail Post, 51"H	7901000	**26X344**
Guardrail Base Assembly		
Galvanized Steel, 18" W x 18" L	7900060	**5KCX6**



10K024

10K037

Guardrails

Guardrails and Accessories—Powder-coated galvanized steel. Heavy-duty steel accessories easily adapt for existing guardrails. Safety locking pin allows for secure and easy attachment.

Guardrail Clamp Systems—Parapet system is zinc-coated steel with easy-to-adjust handles; works with 52" guardrail post (sold separately). Concrete Decking Guardrail Clamp is steel; secures to a concrete slab (up to 36").

Description	Item No.
Guardrails and Accessories	
Guardrail, 6 ft.	**10K024**
Guardrail, 8 ft.	**10K025**
Guardrail, 10 ft.	**10K026**
Guardrail System Base	**10K030**
Guardrail Toe Board Attachment, 10"	**10K031**
Guardrail Toe Board Attachment, 21¼"	**10K032**
Guardrail Clamp Systems	
Parapet Clamp Guardrail System	**10K037**
Concrete Decking Guardrail Clamp	**10K038**

Honeywell
MILLER

DuraHoist™ Confined-Space Equipment

- Meets OSHA, ANSI, and CSA standards

Portable Fall-Arrest Anchor Post—Provides 3 independent swiveling connection points for anchoring fall-arrest devices. Telescoping design collapses to 33" for transport and storage. Powder-coated finish.

1-Pc. Adjustable Mast—Quick-release pin allows easy collapsibility. 12" to 29" offset.

2-Pc. Adjustable Upper Mast—Provides extra operating reach when needed and allows components to be used in various configurations.

Adjustable Offset Upper Mast and Lower Mast Extension—Provide flexibility to extend height from 41" to 146" when used with 1XEP7. 2KTD1 adjusts from 12" to 29".

3-Pc. Portable Base 5RPT8—Features adjustable screws and a built-in level indicator to help assure level setup on uneven surfaces. Use with 5RPT7.

3-Pc. Portable Base 1XEP7—Adjustable screws and built-in level indicator for easy setup on uneven surfaces. Max 29" offset. Use with 1XEP6 and 2KTD1.

Floor-Mount Sleeve—Use with 1XEP6 or 2KTD1 for horizontal concrete or steel structures.

Bracket Assembly—Mounts winch to Adjustable Masts 1XEP6 or 2KTD1.

Vehicle Hitch-Mount Sleeve—Easily installs on 2" hitch to provide a portable anchor connection for Adjustable Masts 1XEP6 or 2KTD1.

5RPT3

1XEP6

Description	L	W	H	Mfr. Model	Item No.
Portable Fall Arrest Anchor Post	10½"	10½"	54 ½ in	DH-AP-1/	**5RPT3**
1-pc. Adjustable Mast	55"	12"	74 to 89 in	DH-3/	**1XEP6**
2-pc. Adjustable Upper Mast	63⅗"	16"	46 to 63½ in	DH-23/	**5RPT7**
Adjustable Offset Upper Mast	5"	22 to 38"	41 to 56 in	DH-21/	**2KTD1**
Lower Mast Extension	3"	3"	45 in	DH-22/45	**2KTD4**
3-pc. Portable Base	96 in	72 in	11 in	DH-24/	**5RPT8**
3-pc. Portable Base	50 in	38 to 64 in	10 in	DH-4/	**1XEP7**
Floor-Mount Sleeve, Zinc-Plated Steel	10 in	10 in	9 ¼ in	DH-7ZP/	**1XEP9**
Bracket Assembly	16 in	1 ½ in	6 in	DH-19-MILLER/	**1XER2**
Vehicle Hitch-Mount Sleeve	4 ft	48 in	3 ft	DH-12/	**2KTD5**

DBI SALA

Advanced Confined-Space Equipment

Portable Fall-Arrest Post—Compact and lightweight, designed for use on top of vertical platforms. Features 3 swivel anchor points that can rotate 360° for freedom of mobility for up to 3 workers.

5-Pc. Hoist System—Includes adjustable offset upper mast, lightweight lower mast, and 3-pc. base.

4-in-1 Davit Guard—Provides portable fall arrest, confined-space entry, and rescue system with davit and guardrail. Lightweight and durable, can be assembled without tools and folds down to less than 12" for portability and storage.

Davit Arm—For portable fall arrest post rescue. Assembles easily to address material handling or rescue needs.

Steel Anchor Base—For use in closed environments free from chemicals or moisture.

Vehicle Hitch-Mount Sleeve—Installs into 2" hitch to provide portable anchor point connection.

5MNZ9

5MNZ8

Description	L	W	H	Mfr. Model	Item No.
Portable Fall-Arrest Post	—	—	30 ½ to 54 ½ in	8516691	**5MNZ9**
5-Pc. Hoist System	—	37-64"	70½ to 83"	8518000	**5MNZ8**
4-in-1 Davit Guard	—	—	—	8530352	**36G706**
Davit Arm	—	—	—	8516693	**5MPA1**
Steel Anchor Base	10 in	8 in	3 in	8517412	**5MPA2**
Vehicle Hitch-Mount Sleeve	41 in	51 ¾ in	3 ft	8510140	**5MPA3**

38Y414

Honeywell
MILLER

QuickPick™ Rescue Kits

- Meet OSHA and ANSI standards
- 5:1 lifting ratio
- Weight cap.: 400 lb.

Preassembled rescue solutions in an easy-to-store kit require only an overhead anchorage to employ. Backup Braking System acts as a foolproof secondary fall protection device in case the rescuer accidentally releases the rope. Comply with ANSI Z359.4 Safety Requirements for Assisted Rescue and Self Rescue Systems, Subsystems and Components.

Includes	Cable Length	Mfr. Model	Item No.
Back Up Braking System, Carrying Bag, Carabiner, Miller WristBandit(TM) Tool Lanyard, Pole, Pulley, Rope, Rope Control Handle, Webbed Strap Pass-Through Anchor	50 ft.	QP/50FT	**38Y414**
	75 ft.	QP/75FT	**38Y415**
	100 ft.	QP/100FT	**38Y416**

49Z793

Confined-Space Rescue Equipment

FALLTECH Fall Protection. Precision Engineered. | Condor

- Meets ANSI Z359.4 standard (except 35KU76)

Complete Confined-Space Rescue Systems—Prepacked systems with tripod are easy to transport and quickly deployed. Each device includes a storage bag. 310 lb. workload cap.

Tripod—Features 2 head-mount pulleys, nonskid foot pads, and 2-stage collapsible leg adjustment for secure, quick setup. With storage bag. 310 lb. workload cap.

Hoist—Personnel-rated. 310 lb. workload cap.

Rescue Self-Retracting Device (SRD)—3-way recovery device offers dual-mode SRL-R operation as a recovery winch and self-retracting lifeline. It includes a swivel carabiner and storage bag. 310 lb. workload cap.

Retrieval Yoke—Attaches securely to shoulder D-rings on confined-space retrieval harnesses. Spanner bar keeps yoke legs separated for unencumbered egress. Adjustable to wearer shoulder width.

- Meets ANSI Z359.1-2007

Includes	Brand	Item No.
Complete Confined-Space Rescue Systems		
Tripod 49Z789 with Tripod Leg Bracket 49Z790, Winch 49Z787, and Storage Bags	Falltech	49Z791
Tripod 49Z789 with Leg Bracket 49Z790, 3-Way Retrieval Rescue SRD 49Z788, and Storage Bags	Falltech	49Z792
Tripod 49Z789 with (2) Leg Brackets 49Z790, Winch 49Z787, 3-Way Retrieval Rescue SRD 49Z788, and Storage Bags	Falltech	49Z793

Includes	Brand	Item No.
Tripod		
Leg Securing Safety Chain and (3) Non-Slip Foot Pads; Adjustable Working Height 55" to 91" with 6" Adjustments	Falltech	49Z789
Tripod Leg Bracket		
Detent Pin, Installation Bolts	Falltech	49Z790
Hoist		
Carry Bag	Falltech	493F87
Rescue Self-Retracting Device (SRD)		
Galvanized Steel Cable, 3/16 in dia. x 60 ft	Condor	49Z788
Retrieval Yoke		
Polyesterbing with (2) Snap Hooks	Falltech	35KU76

1XEU2

Confined-Space Rescue Equipment

Honeywell MILLER

- Meets OSHA, ANSI, and CSA standards

Complete Confined-Space Rescue System—A MightEvac® self-retracting lifeline with rescue retrieval (SRL-R), tripod, carabiner, and pulley are provided along with heavy-duty equipment bags.

Tripod—Rubber skid pads on feet and safety chain between legs enhance stability. 310-lb. workload capacity.

ManHandler® Personnel-Rated Hoist/Winch—Rescue speed of 20 fpm. Built-in mounting bracket.

MightEvac® SRL with Emergency Retrieval Hoist—The MightEvac® combines a MightyLite® self-retracting lifeline with a retrieval hoist for emergency evacuation. No annual factory certification required. Average rescue speed of 25 fpm. 310-lb. weight capacity.

Includes	Mfr. Model	Item No.
Complete Confined-Space Rescue System		
7-ft. Tripod, Mounting Bracket, and MightEvac® SRL with 3/16" 50-ft. Galvanized Cable Lifeline	MR50GC-Z7/50FT	1XEU2
Tripod		
Adjustable; 52" to 89"	51/7FT	5T536
ManHandler® Personnel-Rated Hoist/Winch		
Galvanized Steel Cable Lifeline, 3/16" dia. x 65 ft.	8442-Z7/65FT	2JFC8
MightEvac® SRL with Emergency Retrieval Hoist		
Cable Lifeline and Mounting Bracket, 3/16" dia., x 130-ft.	MR130GB-Z7/130FT	36WA24

5MNZ2

Confined-Space Rescue Equipment

DBI SALA

Complete Confined-Space Rescue Systems—Lightweight, portable systems are easily set up and transported from one location to another.

Tripods—Feature rubber skid pads on base and adjustable locking legs with safety chain. 350-lb. workload cap.

Winches—Use with independent fall-protection devices to raise and lower workers. 350-lb. weight cap.

Self-Retracting Lifelines (SRLs)—Feature retrieval winch for emergency rescue. Include safety hook with impact indicator. 900-lb. max. arresting force and 420-lb. weight cap.

Boatswain Chairs—Feature heavy-duty polyester webbing and plywood seat.

Rescue Wristlets—Keep victims upright during rescue operations.

DuraHoist™ Confined-Space Equipment—

- Meets OSHA, ANSI, and CSA standards

Description/Includes	Item No.
Complete Confined-Space Rescue Systems	
7-ft. Tripod 5MGG6 and Winch 5MNY6	5MNZ2
9-ft. Tripod 5MGG7 and Winch 5MNY6	5MNZ3
Tripods	
7-ft. Tripod, Adjustable, 60" to 84"	5MGG6
9-ft. Tripod, Adjustable, 84" to 108"	5MGG7
Winches	
Galvanized Steel Cable, 1/4" dia. x 60-ft.	5MNY6
Galvanized Steel Cable, 3/16" dia. x 90-ft.	5MNY7
Galvanized Steel Cable, 3/16" dia. x 120-ft.	5MNY8
Stainless Steel Cable, 1/4" dia. x 60-ft.	5MNY9
Self-Retracting Lifelines (SRL)	
Galvanized Steel Cable, 3/16" dia. x 50 ft.	5MGH0
Stainless Steel Cable, 3/16" dia. x 50 ft.	5MGH3
Boatswain Chairs	
Plywood Seat	3NGH9
Rescue Wristlets	
With Center D-Ring, 12"	3NPW2
With Center O-Ring, 18"	3NPW3
DuraHoist™ Portable Confined Space System Components	
Portable Fall Arrest Anchor Post	5RPT3
1-pc. Adjustable Mast	1XEP6
2-pc. Adjustable Upper Mast	5RPT7
Adjustable Offset Upper Mast	2KTD1
Lower Mast Extension	2KTD4
3-pc. Portable Base	5RPT8
3-pc. Portable Base	1XEP7
Floor-Mount Sleeve, Zinc-Plated Steel	1XEP9
Bracket Assembly	1XER2
Vehicle Hitch-Mount Sleeve	2KTD5

Manhole Equipment

Manhole Cover Hooks—Made of 5/8" forged hexagonal steel for the strength to lever up heavy covers. Choose straight or right-angle handle.

- 300-lb. capacity

Manhole Lid Lifter—All-steel construction. Includes rubber grip for handle and foot. Recessable hook.

Magnetic Manhole Lid Lifters with Dolly—2-position lifting points help one person break loose the most stubborn covers—up to 36" dia.—safely and with minimal back strain. Lifters collapse for easy transport and storage.

Manhole Guardrail—Collapsible. Steel frame construction. Includes heavy-duty safety chains.

Guardrail Winch—Mounts easily; 300-lb. cap. Side pieces are aluminum, and winch bar is steel tubing with a 3" drum. Includes 2 independent ratchet systems and automatic brake.

Umbrella and Umbrella Stand—Heavy-duty, waterproof vinyl umbrella is safety yellow color for visibility. Easy stowage in the included bag. Sturdy 2-pc. metal pole can be pushed into the ground, strapped to a manhole guard rail, or used with 11C537 metal stand; tilts for convenient placement.

Tent Heater—Steel housing with enclosed heating elements and a sealed motor. Raises the temperature 50°F. UL Listed; CSA Certified.

Description	Brand	Mfr. Model	Item No.
Manhole Cover Hooks			
For 24" dia. Manhole, Flat Handle	Cherne	251429	**3TCR6**
For 24" dia. Manhole, 90° Handle	Cherne	015443	**3TCR4**
For 36" dia. Manhole, Flat Handle	Cherne	251438	**3TCR7**
For 36" dia. Manhole, 90° Handle	Cherne	015438	**3TCR5**
Manhole Lid Lifter			
42"L	—	10K048	**10K048**
Magnetic Manhole Lid Lifters with Dolly			
Steel Dolly and 660-lb. Lift Weight	Allegro	9401-25	**5PTL7**
Steel Dolly and 900-lb. Lift Weight	Allegro	9401-26	**32MZ68**
Aluminum Dolly and 660-lb. Lift Weight	Allegro	9401-25A	**32MZ67**
Aluminum Dolly and 900-lb. Lift Weight	Allegro	9401-26A	**5PTN0**
Manhole Guardrail			
33"L x 33"W x 42"H	—	10K047	**10K047**
Guardrail Winch			
With ½" x 35-ft. Dura-Plax Braided Rope	Allegro	9401-10	**6MKN6**
Umbrella and Umbrella Stand			
Umbrella 84" Dia., 92" H	Allegro	9403	**1UFG3**
Umbrella Stand	Allegro	9403-05	**11C537**
Tent Heater			
110VAC, 1500W of 5000 Btu with 115 cfm	Allegro	9401-50	**3NPV5**

3TCR4

10K048

5PTN0

10K047

6MKN6

1UFG3

3NPV5

Venturi-Style Pneumatic Air Blowers

Use to ventilate explosive and hazardous vapors safely. Operate on compressed air or steam pressure up to 140 psi.

Inlet Connection	Base Dia.	Overall Length	INLET PRESSURE Total Airflow, CFM 40 psig	60 psig	80 psig	Air Consumed, SCFM 40 psig	60 psig	80 psig	Mfr. Model	Item No.
Allegro										
Galvanized Steel Housing with Cast Aluminum Base										
½ in NPT	7 ⅓ in	16 ¾ in	650	865	1,080	20	30	40	9518-03S	**3TCK2**
½ in NPT	7 ⅓ in	30 ½ in	960	1,135	1,310	20	30	40	9518-03	**3TCK3**
1 in NPT	11 ¼ in	44 ¼ in	2,100	2,560	3,020	20	60	80	9518-06	**3TCK4**
1 in NPT	14 ⅓ in	46 in	3152	4215	4,810	114	110	140	9518-08	**3TCK5**
Plastic Housing with Cast Aluminum Base										
½ in NPT	7 ⅓ in	16 ¾ in	650	865	1,080	20	30	40	9518-13S	**5GVX7**
½ in NPT	7 ⅓ in	30 ½ in	960	1,135	1,310	20	30	40	9518-13	**5GVX8**
1 in NPT	11 ¼ in	44 ¼ in	2,280	2,560	3,020	40	60	80	9518-16	**5GVX9**
1 in NPT	14 ⅓ in	46 in	3,620	4,215	4,810	80	110	140	9518-18	**5GVY0**

Inlet Connection	Base Dia.	Overall Length	INLET PRESSURE Total Airflow, CFM 50 psig	70 psig	90 psig	Air Consumed, SCFM 50 psig	70 psig	90 psig	Mfr. Model	Item No.
Air Systems International										
Galvanized Steel Housing with Cast Aluminum Base										
½ in NPT	7 5⁄16 in	16 ⅓ in	935	1,274	1,422	38	53	64	ASI-1000	**4YG44**
½ in NPT	7 5⁄16 in	32 ⅛ in	1,211	1,429	1,580	38	53	64	ASI-1200	**1C089**
1 in NPT	11 ¼ in	44 in	2,770	3,340	3,752	76	99	127	ASI-2900	**1C093**
1 in NPT	14 ⅜ in	46 ½ in	3,785	4,562	5,041	117	152	197	ASI-4100	**1C095**

5GVX7

4YG44

Confined-Space Fans, Blowers, and Accessories

PLASTIC AXIAL FANS

Nonhazardous location, standard 115VAC and 12VDC models are portable outlet fans constructed of orange polyethylene and are available with removable canister ducting. Hazardous location, explosionproof models are constructed of black conductive polyethylene to prevent static buildup and are available with conductive ducting. UL Listed, CSA Certified.

STEEL AXIAL FANS

Standard 115VAC fan 4YG70 runs at 72dBA at 1m for extra-quiet operation. 4YG66 and 4YG68 are 1-pc. axial fans with attached polyethylene duct canister. 12VDC fan 4YG69 includes power cord with battery clips. UL Listed, CSA Certified.

STEEL AXIAL IN-LINE FANS

Fans can be installed in series for running long lengths of ducting. Include 8" or 10" duct adapters on each end of the fan. UL Listed, CSA Certified.

CENTRIFUGAL BLOWERS

All except 5FYA1 are mounted on a lightweight tubular steel, dual-handle frame. Polyethylene housing with 8" inlet and outlet flange. UL Listed, CSA Certified.

115V—Models have gray housing, aluminum nonsparking blower wheel, and include GFCI power cord, except Explosionproof Blower 5FXZ8 has a black conductive housing and a grounding lug to remove static electricity.

Gasoline with Briggs & Stratton Engine—Includes a 5-ft. remote steel exhaust hose to keep CO away from blower's intake. Meets Cal/OSHA emission standard.

Pneumatic—Uses a compressed air source with a flow capacity of 10 to 100 cfm and a pressure range of 10 to 100 psi. Includes coalescing filter, regulator, and moisture separator/lubricator. Static grounding lug installed for intrinsic safety.

DUCTING

Retractable, wire-reinforced design with cuffs on both sides. Conductive ducts include 18" ground wire on each end.

SADDLE VENT VENTILATION ACCESSORY KITS

Include Saddle Vent with universal mount and 90° elbow, one 6-ft and 15-ft. length of 8"-dia. ducting, and duct storage canister.

SADDLE VENTS

Vents fit manhole openings 20" and larger. 3WE69 removes static buildup in hazardous ventilation environments.

CONFINED-SPACE ACCESSORIES

Individual components to help you design a system to address your specific needs.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Plastic Axial Fans					
115VAC	8 in	⅓ hp	974 cfm	CVF-8AC	**15E886**
115VAC Explosionproof	8 in	⅓	974 cfm	CVF-8EXP	**15E892**
12VDC	8 in	¼ hp	848 cfm	CVF-8DC	**15E889**
115VAC	12 in	1 hp	1,866 cfm	CVF-12AC	**39FW23**
Plastic Axial Canister Fans					
115VAC with 15-ft. Ducting	8 in	⅓ hp	974 cfm	CVF-15ACAN	**15E887**
115VAC with 25-ft. Ducting	8 in	⅓ hp	974 cfm	CVF-25ACAN	**15E888**
115VAC Explosionproof with 15-ft. Conductive Ducting	8 in	⅓ hp	974 cfm	CVF15CANEX	**15E893**
115VAC Explosionproof with 25-ft. Conductive Ducting	8 in	⅓ hp	974 cfm	CVF25CANEX	**15E894**
12VDC with 15-ft. Ducting	8 in	¼ hp	848 cfm	CVF-15DCAN	**15E890**
12VDC with 25-ft. Ducting	8 in	¼ hp	848 cfm	CVF-25DCAN	**15E891**
115VAC with 15-ft. Ducting	12 in	1 hp	1,866 cfm	CVF12CAN15	**39FW24**
115VAC with 25-ft. Ducting	12 in	1 hp	1,866 cfm	CVF12CAN25	**39FW25**
Steel Axial Fan					
115VAC	8 in	⅓ hp	1,395 cfm	SVF-8AC	**4YG70**
Steel Axial Canister Fans					
115VAC with 15-ft. Ducting	8 in	⅓ hp	870 cfm	SVF-15ACAN	**4YG66**
115VAC with 25-ft. Ducting	8 in	⅓ hp	858 cfm	SVF-25ACAN	**4YG68**
12VDC with 25-ft. Ducting	8 in	1/6 hp	796 cfm	SVF-25DCAN	**4YG69**
Steel Axial In-Line Fans					
115VAC	8 in/10 in	⅓ hp	1,390 cfm	SVF-10E	**3WE67**
115VAC Explosionproof	8 in/10 in	⅓ hp	1,390 cfm	SVF-10EXP	**3WE66**
Centrifugal Blowers					
115VAC	8 in	½ hp	1,390 cfm	SVB-E8EC	**5FYA1**
115VAC	8 in	¾ hp	1,570 cfm	SVB-E8	**5FXZ6**
115VAC 2-Speed	8 in	⅓ and ¾ hp	0.7006 cfm	SVB-E8-2	**5FXZ7**
115VAC Explosionproof	8 in	¾ hp	1,570 cfm	SVB-E8EXP	**5FXZ8**
Gasoline with Briggs & Stratton Engine	8 in	127cc Engine	3,000 cfm	SVB-G8	**5FYA0**
Pneumatic	8 in	4 hp	3,000 cfm	SVB-A8	**5FXZ9**

		STANDARD		CONDUCTIVE	
Dia.	L	Mfr. Model	Item No.	Mfr. Model	Item No.
Ducting					
8 in	6 ft	SVH-6	**2BC85**	SVH-CND86	**3PAR1**
8 in	15 ft	SVH-15	**2AW22**	SVH-CND815	**3PAR2**
8 in	25 ft	SVH-25	**3AT30**	SVH-CND825	**3PAR3**
12 in	15 ft	SVH-1215	**39FW29**	—	—
12 in	25 ft	SVH-1225	**39FW30**	—	—

Description	Mfr. Model	Item No.
Saddle Vent Ventilation Accessory Kits		
Nonhazardous Locations	SV-CUP	**3PAN9**
Hazardous Locations	SV-CUPCND	**3WE68**
Saddle Vent		
8 in Orange Vent, Standard	SV-189	**2AM94**
8 in Black Vent, Conductive	SV-189CND	**3WE69**
12 in Orange Vent, Standard	SV-18912-O	**39FW34**
Confined-Space Accessories		
Standard Duct to Duct 8" Plastic Connector	SVH-88C	**2AR79**
Conductive Duct to Duct 8" Galvanized Connector	SVH-88CND	**3PAR4**
Universal Mount to Fit Saddle Vent	SV-UM	**2AT72**
Polyethylene Orange Carrier, Holds 50-ft. Duct	SVH-DC25	**5AH48**
Standard 90° Elbow for 2AM94	SV-90	**3AM63**
Conductive 90° Elbow for 3WE69	SV-90CND	**3PAR5**
Blower Intake Filter Holder	SVB-IFH9	**3PAR7**
Blower Intake Filter Element, 95% Efficient	SVB-IF9ST	**3PAR8**

Confined-Space Ventilation Kits

Available for nonhazardous and hazardous locations. Kits include fan or blower, Saddle Vent, universal mount, 90° elbow, one 6-ft. duct, one 15-ft. duct, or one 25-ft. duct and duct carrier.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Nonhazardous Location Kits					
Plastic Axial Fans					
115VAC with 25-ft. Ducting	8 in	⅓ hp	974 cfm	CVF8A25KIT	**15E899**
12VDC with 25-ft. Ducting	8 in	¼ hp	848 cfm	CVF8D25KIT	**15E901**
Centrifugal Blowers					
115VAC	8 in	½ hp	1,390 cfm	SVB-E8CUP	**5FYA3**
115VAC	8 in	¾ hp	1,570 cfm	SVB-E8SCUP	**5FYA4**
115VAC 2-Speed	8 in	⅓ and ¾ hp	0.7006 cfm	SVB-E82CUP	**5FYA5**
Gasoline with Briggs and Stratton Engine	8 in	127cc Engine	3,000 cfm	SVB-G8CUP	**5FYA6**
115VAC	8 in	⅓ hp	1,395 cfm	SVF-8ACUP	**2ELN8**
115VC, Inline	8 in/10 in	⅓ hp	1,390 cfm	SVF-10ECUP	**2ELN9**
Hazardous Location Kits					
Plastic Axial Fan					
115VAC Explosionproof with 15-ft. Conductive Ducting	8 in	⅓ hp	974 cfm	CVFEX15KIT	**15E897**
115VAC Explosionproof with 25-ft. Conductive Ducting	8 in	⅓ hp	974 cfm	CVFEX25KIT	**15E898**
Centrifugal Blowers					
Pneumatic	8 in	4 hp	3,000 cfm	SVB-A8CUP	**5FYA7**
115VAC, Explosionproof	8 in	¾ hp	1,570 cfm	SVB-E8XCUP	**5FYA2**
Steel Axial In-Line Fan					
115VAC, Explosionproof	8 in/10 in	⅓ hp	1,390 cfm	SVF10EXCUP	**2ELP1**

Confined-Space Fans, Blowers, and Accessories

Designed for positive and negative ventilation.

Plastic Axial Fans—Lightweight and quiet. Constructed of durable polyethylene with a built-in handle. Fans that include a canister assembly attach to the intake or exhaust side of a blower. Fans with explosionproof motors meet Class I, Div. I and II, Groups C & D and Class II, Div. I and II, Groups F & G. Fans with DC motor include power cord with battery clips.

Steel Axial Fans—Steel construction with handle for easy transport. 4UDK1, 3PAK4, and 3PAK5 meet Class I, Div. I and II, Groups C & D and Class II, Div. I and II, Groups F & G. 32MZ58 meets Class I, Div. I and II, Groups B, C, & D and Class II, Div. I and II, Groups F & G.

Steel Axial Fan Air Bags—All-in-one portable axial fan system built into a heavy-duty polyester bag. Zippered ends allow blower to be used without removing unit from the bag.

Plastic Centrifugal Blowers—Polyethylene construction with a built-in handle and 8" flange on intake and exhaust ports. 5GVU5 and 5GVU6 are UL Recognized, CSA Certified.

Ducting—Retractable with wire-reinforced design. Cuffs on both sides ease attachment. Conductive ducting prevents static buildup in hazardous locations.

Manhole Ventilation Systems—Low-profile manhole air vent, 90° elbow, and built-in mounting all in 1 unit. Include collapsible duct for easy entry, stored in a small storage bag. Ducting is vinyl and polyester with PVC coating. Systems are compact, lightweight, and not statically conductive. Made from linear low-density polyethylene.

Confined-Space Accessories—Individual components to help design a system to address specific needs.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Plastic Axial Fans					
115VAC	8 in	⅓ hp	831 cfm	9533	**1UFG4**
115VAC w/Canister and 15 ft. Ducting	8 in	⅓ hp	831 cfm	9533-15	**1UFG5**
115VAC w/Canister and 25 ft. Ducting	8 in	⅓ hp	831 cfm	9533-25	**1UFG6**
115VAC Explosionproof	8 in	⅓ hp	900 cfm	9538	**3PAK1**
115VAC Explosionproof w/Canister and 15 ft. Ducting	8 in	⅓ hp	900 cfm	9538-15	**3PAK2**
115VAC Explosionproof w/Canister and 25 ft. Ducting	8 in	⅓ hp	900 cfm	9538-25	**3PAK3**
12VDC	8 in	¼ hp	816 cfm	9536	**1UFG7**
12VDC w/Canister and 15 ft. Ducting	8 in	¼ hp	816 cfm	9536-15	**1UFG8**
12VDC w/Canister and 25 ft. Ducting	8 in	¼ hp	816 cfm	9536-25	**1UFG9**
110VAC	12 in	1 hp	1,842 cfm	9543	**6PTP3**
110VAC w/Canister and 15 ft. Ducting	12 in	1 hp	1,842 cfm	9543-15	**6PTP4**
110VAC w/Canister and 25 ft. Ducting	12 in	1 hp	1,842 cfm	9543-25	**6PTP5**
115VAC	12 in	1 hp	2,180 cfm	9539-12	**5GVX4**
12VDC	12 in	¼ hp	1,450 cfm	9539-12DC	**5GVX5**
115VAC Explosionproof	12 in	⅓ hp	1,475 cfm	9539-12EX	**5GVX6**
115VAC	16 in	1 hp	3,200 cfm	9553	**32MZ60**
115VAC w/Canister and 15 ft. Ducting	16 in	1 hp	3,200 cfm	9553-15	**32MZ61**
115VAC w/Canister and 25 ft. Ducting	16 in	1 hp	3,200 cfm	9553-25	**32MZ62**
Steel Axial Fans					
115VAC	8 in	⅓ hp	1,275 cfm	9513	**6MKN5**
115VAC w/15 ft. Ducting	8 in	⅓ hp	1,275 cfm	9514	**5GVT7**
115VAC w/25 ft. Ducting	8 in	⅓ hp	1,275 cfm	9514-25	**5GVT8**
115VAC Explosionproof	8 in	⅓ hp	890 cfm	9514-06	**4UDK1**
12VDC w/25 ft. Ducting	8 in	¼ hp	1,150 cfm	9506-25	**5GVT9**
125VAC Explosionproof	12 in	⅓ hp	1,636 cfm	9509-01	**3PAK4**
115VAC	16 in	½ hp	3,400 cfm	9515	**1UFH1**
115/230VAC	16 in	2 hp	5,500 cfm	9516	**1UFH2**
115VAC Explosionproof	16 in	½ hp	2,900 cfm	9515-01	**3PAK5**
115/230VAC Explosionproof	16 in	1 ½ hp	4,839 cfm	9515-50EX	**32MZ58**
115VAC	20 in	½ hp	4,650 cfm	9525	**5GVU7**
115/230VAC	20 in	2 hp	7,500 cfm	9525-50	**5GVU8**
115/230VAC Explosionproof	20 in	½ hp	4,650 cfm	9525-01	**5GVU9**
115/230VAC Explosionproof	20 in	1 ½ hp	6,837 cfm	9525-50EX	**32MZ59**
Steel Axial Fan Air Bags					
120VAC 2-Speed w/15 ft. Ducting	8 in	¼ hp	760 cfm	9535-08	**2KJH8**
120VAC 2-Speed w/15 ft. Ducting	12 in	½ hp	1,840 cfm	9535-12	**2KJH9**
120VAC 2-Speed w/25 ft. Ducting	12 in	½ hp	1,800 cfm	9535-12L	**32MZ57**
Plastic Centrifugal Blowers					
115VAC	8 in	⅓ hp	1,066 cfm	9504	**5GVU5**
110VAC	8 in	¾ hp	1,570 cfm	9504-50	**5GVU6**
Gasoline w/Subaru Engine	8 in	5.7 hp	2000 to 3000 cfm	9505	**5GVU4**
Air-Driven	8 in	—	1,800 cfm	9508	**5GVT6**

Dia.	L	Mfr. Model	STANDARD Item No.	CONDUCTIVE Item No.
Ducting				
8 in	15 ft	9500	**3PAL3**	**3PAK6**
8 in	25 ft	9500	**3PAL4**	**3PAK7**
12 in	15 ft	9550	**3PAL5**	**3PAK8**
12 in	25 ft	9550	**3PAL6**	**3PAK9**
16 in	15 ft	9600	**1UFH3**	**3PAL1**
16 in	25 ft	9600	**1UFH4**	**3PAL2**
20 in	15 ft	9650	**5GVX0**	**5GVX2**
20 in	25 ft	9650	**5GVX1**	**5GVX3**

Description	Outlet Size	Mfr. Model	Item No.
Manhole Ventilation System			
Includes Low-Profile Manhole Air Vent, 90° Elbow, and Built-In Mounting	8 in	9510-50	**5GVY1**
	12 in	9510-60	**32MZ63**
Confined-Space Accessories			
Duct Storage Bag	8 in	9500-45	**3NPV8**
	12 in, 16 in, 20 in	9600-45	**6MKL6**
Duct Storage Canister	8 in	9500-55	**6MKL7**
	12 in	9550-55	**6MKL8**
Duct-to-Duct Connector	8 in	9500-01	**6MKL9**
	12 in	9550-01	**6MKN0**
	16 in	9600-01	**6MKN1**
	20 in	9650-01	**6MKN2**
Y-Duct Connector	8 in	9500-Y	**32MZ64**
	12 in	9550-Y	**32MZ65**

Confined-Space Ventilation Kits

Kits include blower, 6 and 15 ft. of ducting with storage bag, and Manhole Ventilation System 5GVY1.

Description	Duct Dia.	HP	Max. Flow in Free Air	Mfr. Model	Item No.
Axial Fan Kits					
Plastic Housing, 115VAC	8 in	⅓ hp	831 cfm	9520-33M	**5MWH1**
Plastic Housing, 115VAC	12 in	1 hp	1,842 cfm	9520-43M	**32MZ76**
Plastic Housing, 12VDC	8 in	¼ hp	816 cfm	9520-36M	**5MWH0**
Plastic Housing, 12VDC	12 in	¼ hp	1,330 cfm	9520-46M	**32MZ77**
Steel Housing, 115VAC	8 in	⅓ hp	1,275 cfm	9520-14M	**5MWH3**
Steel Housing, 12VDC	8 in	¼ hp	1,150 cfm	9520-06M	**5MWH2**
Plastic Centrifugal Blower Kits					
115VAC	8 in	⅓ hp	1,066 cfm	9520-04M	**5GVU0**
115VAC	8 in	¾ hp	1,570 cfm	9520-50M	**5GVU1**
115VAC Explosionproof	8 in	¾ hp	1,570 cfm	9520-03M	**5GVU2**
Gasoline w/Subaru Engine	8 in	5.7 hp	2000 to 3000 cfm	9520-05M	**5GVU3**

Gas Abbreviations

- Ammonia: NH_3
- Carbon dioxide: CO_2
- Carbon monoxide: CO
- Chlorine: Cl_2
- Chlorine dioxide: ClO_2
- Combustible: LEL
- Hydrogen: H_2
- Hydrogen cyanide: HCN
- Hydrogen sulfide: H_2S
- Iridium: IR
- Isobutylene: C_4H_8
- Methane: CH_4
- Nitrogen oxide: NO_2
- Oxygen: O_2
- Pentane: C_5H_{12}
- Phosphine: PH_3
- Sulfur dioxide: SO_2

iNet Gas Detection Service

iNet helps you manage your portable gas detection program while having access to the tools and reports that show how your equipment is being used and what it's detecting.

You'll get:

- Expert help when you need it
- A safer workplace
- Cost savings

To find out more about how the iNet Gas Detection Service works and how to get started, go to **grainger.com/iNetService**

Ventis Pro5 with Integral Sampling Pump
53DH07

INDUSTRIAL SCIENTIFIC

Ventis Pro Series Multi-Gas Detectors

- 95dB audible, visual, and vibrating alarms
- "Man down" alarm and dedicated panic button
- IP68 rated protection against dust and water damage
- iNet and DSX Docking Station compatible

Description	Housing Color	Battery Life	Mfr. Model	Item No.
Ventis Pro5 with LENS Wireless				
LEL, CO, H_2S, SO_2, O_2	Orange	12 hr	VP5-KJ431101111	**53DH08**
Ventis Pro5 with LENS Wireless and Integral Sampling Pump				
LEL, CO, H_2S, SO_2, O_2	Orange	18 hr	VP5-KJ532111111	**53DH07**
LEL, CO, H_2S, NH_3, O_2	Black	18 hr	VP5-KJ632110111	**53DH09**
LEL, CO_2/IR CO, H_2S, O_2	Black	32 hr	VP5-U1232110111	**53DH10**
LEL, CO_2/IR, CO, NH_3, O_2	Orange	32 hr	VP5-U1632111111	**53DH11**

Description	Sensor Range	Mfr. Model	Item No.
Replacement Sensors			
H_2S	0 to 500 ppm	17155304-2	**49JZ94**
O_2	0 to 30%	17155304-3	**49JZ98**
LEL (Pentane)	0 to 100%	17155304-K	**49JZ95**
LEL (Methane)	0 to 100%	17155304-L	**49JZ97**
CH_4	0 to 5%	17155304-M	**49JZ96**
CO	0 to 2000 ppm	17155306-1	**49JZ91**
H_2S Series Six	0 to 500 ppm	17155306-2	**49JZ93**
NO_2	0 to 150 ppm	17155306-4	**49JZ92**
SO_2	0 to 150 ppm	17155306-5	**49JZ89**
HCN	0 to 30 ppm	17155306-B	**49JZ88**
CO/H_2 Low	0 to 1000 ppm	17155306-G	**49JZ90**

Highly adaptable devices not only monitor multiple gases at once, but also feature streamlined messaging capabilities to help users respond effectively to hazards. The rugged polycarbonate housing with protective rubber overmold has reinforced high-contact areas to help prevent wear from friction, plus a raised plastic rail to help protect sensors when the instrument is face-down.

Flexible interface with customizable text can keep onscreen messaging as simple as "EVACUATE" or "VENTILATE," to help reduce nuisance alarms and false evacuations. The backlit liquid crystal display can also show full-screen alarms that let users identify the source and type of hazard in emergencies.

LENS Wireless technology lets team members receive readings and alarms from peers' monitors for quick man-down, panic, or gas hazard response.

iAssign tagging lets you track user exposure and site measurement data, even when different Ventis Pro Series gas monitors are used from day to day.

The monitors can be used for personal protection, or order with pump for confined-space applications. Sensor options include flexible slot positions to adapt to a range of applications.

Note: Ventis Pro series use the same DSX Docking Stations and accessories as the Ventis MX4 Multi-Gas Detectors; find them on page 1801.

52HN76

Radius BZ1 Area Monitors with LENS Wireless

INDUSTRIAL SCIENTIFIC

- 108dB audible and gas/non-gas visual alarms
- Multiple sensor options, including PID, to detect up to 7 gases
- iNet and DSX Docking Station compatible

Worksite gas hazard monitors are engineered for long-lasting, easy-to-operate detection and protection. The modular design allows for smaller instrument inventories and enhanced uptime in the field. Text-based configuration and navigation simplifies setup and use.

Radius BZ1 Area Monitors—Preconfigured LENS Wireless networking connects devices at turn-on, for instant gas readings that can help your team react quickly to emergencies.

- Include SafeCore Module with DualSense Technology

SafeCore Modules and Radius BZ1 Base—Proprietary, interchangeable SafeCore Modules house critical tech including sensors, software, wireless, and pumps (on select models). Smart sensors are positioned face-down in the modules to help reduce false alarms from weather conditions.

Modules fit into the durable, weather-resistant Radius Base, which has built-in audio and visual alarms designed to capture attention even in high-noise environments. Swap out modules to switch sensor setups or change from a nonpumped module to a pumped one for confined-space sampling. The large display shows customizable alarm messages such as "EVACUATE" or "VENTILATE."

DualSense Technology employs 2 sensors to detect the same gas, to help increase worker safety.

DSX Docking Stations—Designed to dock a SafeCore Module for data downloads, bump tests, calibration, and settings changes.

Description	Mfr. Model	Item No.
Radius BZ1 Area Monitors with LENS Wireless		
LEL, O_2	BZ1-K003000111	**52HN96**
LEL, H_2S, O_2	BZ1-K023000111	**52HN92**
LEL, CO, H_2S, O_2	BZ1-K123000111	**52HN76**
LEL, CO, H_2S, O_2 PID	BZ1-K1230R0111	**52HN88**
LEL, CO, H_2S, O_2, SO_2	BZ1-K123500111	**52HN84**
LEL, CO, H_2S, O_2, SO_2 PID	BZ1-K1235R0111	**52HN80**
Radius BZ1 Area Monitors with LENS Wireless and Integral Sampling Pump		
LEL, O_2	BZ1-K003001111	**52HN98**
LEL, H_2S, O_2	BZ1-K023001111	**52HN94**
LEL, CO, H_2S, O_2	BZ1-K123001111	**52HN78**
LEL, CO, H_2S, O_2 PID	BZ1-K123501111	**52HN86**
LEL, CO, H_2S, O_2, SO_2	BZ1-K1230R1111	**52HN90**
LEL, CO, H_2S, O_2, SO_2 PID	BZ1-K1235R1111	**52HN82**
SafeCore Modules		
LEL, CO, H_2S, O_2	SC-K123000111	**52HP01**
LEL, CO, H_2S, O_2, SO_2, PID	SC-K1235R0111	**52HP05**
LEL, CO, H_2S, O_2	SC-K123001111	**52HP03**
LEL, CO, H_2S, O_2, SO_2, PID	SC-K1235R1111	**52HP07**
Radius BZ1 Base		
Without SafeCore Module (Sold Separately)	18109431-11	**52HP54**
DSX Docking Stations		
i Cloud-Connected with 6 Gas Inlet Ports	18109396-161	**52HP52**
Standalone with 6 Gas Inlet Ports	18109396-061	**52HP51**
i Cloud-Connected with 3 Gas Inlet Ports	18109396-131	**52HP49**
Standalone with 3 Gas Inlet Ports	18109396-031	**52HP48**

Description	Sensor Range	Mfr. Model	Item No.
Replacement Sensors			
CO	0 to 1500 ppm	17156650-1	**52HP24**
CO, H_2 Low	0 to 1000 ppm	17156650-G	**52HP33**
CO/H_2S	0 to 1500 ppm	17156650-J	**52HP35**
H_2S	0 to 500 ppm	17156650-2	**52HP25**
O_2	0 to 30 ppm	17156650-3	**52HP26**
NO_2	0 to 150 ppm	17156650-4	**52HP27**
SO_2	0 to 150 ppm	17156650-5	**52HP28**
NH_3	0 to 500 ppm	17156650-6	**52HP29**
Cl_2	0 to 50 ppm	17156650-7	**52HP30**
H_2	0 to 2000 ppm	17156650-C	**52HP32**
C_5H_{12}	0 to 100 ppm	17156650-K	**52HP36**

Find Gas Abbreviation information on page 1800.

6XFL0

V-Cal Calibration Station
6UAV4

INDUSTRIAL SCIENTIFIC

Ventis MX4 Multi-Gas Detectors

- 95dB audible, bright LED and vibrating alarms
- DSX Docking Station and iNet compatible
- Backlit LCD

True portability with multi-gas detection in single-gas size. Configured for non-pump applications or with an integral pump for sample draw applications. Available with a tough, safety orange overmold for visibility of the instrument in dark environments. Detectors with diffusion include calibration cup. Detectors with pump include calibration tubing and sample tubing. All detectors include desktop charger and rechargeable batteries.

DSX Docking Stations—Maintenance stations provide easy gas detector bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected 44ZC35 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone 44ZC37 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

V-Cal Calibration Stations—Allow for quick and easy calibration or function (bump) testing of the monitor. Stand-alone operation; PC not required.

Description	Mfr. Model	Item No.
Detectors with Diffusion		
CO, H2S, LEL, O2, Lithium-Ion/12hr., Black	VTS-K1231100101	**6XFK9**
CO, H2S, LEL, O2, Lithium-Ion/12 hr, Orange	VTS-K1231101101	**6XFL0**
CO, H2S, LEL, O2, Lithium-Ion/20 hr, Black	VTS-K1232100101	**6UAU6**
CO, H2S, LEL, O2, Lithium-Ion/20 hr, Orange	VTS-K1232101101	**6UAU7**
H2S,, LEL, O2, SO2 Lithium-Ion/20 hr, Black	VTS-K5232100101	**6UAU8**
H2S,, LEL, O2, SO2 Lithium-Ion/20 hr, Orange	VTS-K5232101101	**6UAU9**
Detectors with Pump		
H2S, LEL, O2, SO2, Lithium-Ion/20 hr., Black	VTS-K5232110101	**6UAV0**
H2S, LEL, O2, SO2, Lithium-Ion/20 hr., Orange	VTS-K5232111101	**6UAV1**
CO, H2S, LEL, O2, Lithium-Ion/20 hr., Black	VTS-K1232110101	**6UAU4**
CO, H2S, LEL, O2, Lithium-Ion/20 hr., Orange	VTS-K1232111101	**6UAU5**
Replacement Sensors		
O2	17134461	**5JNL5**
H2S	17134479	**5JNL6**
CO	17134487	**5JNL7**
CH4, LEL	17134495	**5JNL8**
NO2	17134503	**6UAX1**
SO2	17143595	**6UAX2**
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109327-131	**44ZC35**
Standalone with 3 Gas Inlet Ports	18109327-031	**44ZC37**
V-Cal Calibration Stations for Detectors with Diffusion		
Single Unit	18108631-00	**6UAV4**
V-Cal Calibration Stations for Detectors with Pump		
Single Unit	18108631-10	**6UAV5**
Accessories		
Replacement Battery Kit, AA Alkaline/8 hr, Black	VTSB-301	**6UAV9**
Replacement Battery Kit, AA Alkaline/8 hr, Orange	VTSB-311	**6UAW0**
Replacement Battery Pack, Li-Ion/12 hr, Black	VTSB-101	**6UAW1**
Replacement Battery Pack, Li-Ion/12 hr, Orange	VTSB-111	**6UAW2**
Replacement Battery Pack, Extended Range Li-Ion/12 hr With Pump / 20 hr Without Pump, Black	VTSB-201	**6UAW3**
Replacement Battery Pack, Extended Range Li-Ion/12 hr With Pump / 20 hr Without Pump, Orange	VTSB-211	**6UAW4**
Single Unit Battery Charger	18108191	**6UAW5**
Single Unit Charger w/Datalink Cable	18108209	**6UAW6**
Single Unit Automotive Vehicle Battery Charger, 12VDC	18108651	**6UAW7**
Single Unit Truck Mount w/12VDC Adapter Vehicle Battery Charger	18108652	**6UAW8**
Single Unit Truck Mount, Hard Wired Vehicle Battery Charger, 12VDC	18108653	**6UAW9**
6-Unit Battery Charger	18108650-0	**6UAX0**

Detector
1TAL1

Confined Space Kit
1TAW3

INDUSTRIAL SCIENTIFIC

iBrid MX6 Multi-Gas Detectors and Confined-Space Kits

- 95dB audible alarm
- DSX Docking Station and iNet compatible

Readings are shown on a high-visibility full-graphic LCD. Feature 5-way navigation button and concussionproof overmold housing. Each includes calibration cup with tubing, belt clip, carrying case, and desktop charger.

Confined-Space Kit—Contains detector, sampling pump with 10 ft. of tubing, Li-ion 36-hr. battery, single unit charger, spare alkaline battery pack, calibration cup with tubing, calibration gas and regulator, and carrying case.

DSX Docking Stations—Gas detector maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected 44ZC38 can automatically track bump test and calibration schedules, and send email alerts and notifications about worker exposure and instrument use and service needs.

Standalone 44ZC42 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Mfr. Model	Item No.
Detectors with Diffusion		
CO, H2S, LEL, O2, Alkaline/10-1/2 hr.	MX6-K1230301	**1TAL1**
CO, LEL, O2, Alkaline/10-1/2 hr.	MX6-K1030301	**1TAL3**
H2S, LEL, O2, Alkaline/10-1/2 hr.	MX6-K0230301	**1TAL2**
LEL, O2, Alkaline/10-1/2 hr.	MX6-K0030301	**1TAL4**
Detectors with Pump		
CO, H2S, LEL, O2, PID, Lithium-Ion/36 hr	MX6-K123R211	**1TAL6**
CO, CO2, LEL, O2, Lithium-Ion/36 hr	MX6-R1030211	**1TAL7**
Confined-Space Kit		
CO, H2S, LEL, O2, PID, Lithium-Ion/36 hr	MX6KIT-K123R211	**1TAW3**
Replacement Sensors		
LEL	17124975-K	**1TAN2**
O2	17124975-3	**1TAN1**
H2S	17124975-2	**1TAL9**
CO	17124975-1	**1TAL8**
CH4, IR	17124975-N	**1TAN4**
CO2, IR	17124975-Q	**1TAN5**
PID, VOC	17124975-R	**1TAN3**
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109329-131	**44ZC38**
Standalone with 3 Gas Inlet Ports	18109329-031	**44ZC42**
Accessories		
Motorized Sample Draw Pump	18106765	**1TAT3**
Charger w/Datalink Cable	18107094	**1TAN9**
Vehicle Battery Charger, 12VDC	18107011	**1TAT1**
5-Unit Battery Charger, 120VAC	18107136	**1TAT2**
Replacement Battery Kit, AA Alkaline, 10½ hr.	17131046-3	**1TAN6**
Replacement Battery Pack, Li-ion, 36 hr.	17131038-2	**1TAN8**

Find Gas Abbreviation information on page 1800.

46C109

Tango TX1 Single Gas Detectors

INDUSTRIAL SCIENTIFIC

- 100dB audible, visual, and vibrating alarms
- IP66/67 ingress protection
- DSX Docking Station and iNet compatible

Detectors can be ordered as a carbon monoxide, hydrogen sulfide, sulfur dioxide, or nitrogen dioxide instrument. DualSense technology includes 2 of the same sensor for the detection of a single gas through a proprietary algorithm and displayed as a single reading to the user. Feature segment liquid crystal display and 2 button keypad. Top of case is designed with polycarbonate with a rubber overmold and the bottom is conductive polycarbonate. Replaceable lithium nonrechargeable battery provides 3-yr. run time.

DSX Docking Stations—Maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected 44ZC48 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone 44ZC43 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Sensor Range	Mfr. Model	Item No.
Tango TX1 Gas Detectors			
CO	0 to 1000 ppm	TX1-1	**46C108**
H_2S	0 to 200 ppm	TX1-2	**46C109**
NO_2	0 to 150 ppm	TX1-4	**46C110**
SO_2	0 to 150 ppm	TX1-5	**46C111**

Description	Mfr. Model	Item No.
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109330-131	**44ZC48**
Standalone with 3 Gas Inlet Ports	18109330-031	**44ZC43**
Replacement Battery		
Lithium Nonrechargable Battery	17154367	**46C112**

6NE65

GasBadge Pro Single Gas Detectors

INDUSTRIAL SCIENTIFIC

- 95dB audible, visual, and vibrating alarms
- IP66/67 rating for water and dust ingress
- DSX Docking Station and iNet compatible

Feature continuous event logging record of past 15 alarm events. Reusable unit with interchangeable sensors. Minimum 1-yr. data logging capacity. Lithium battery lasts 2600 hr.

GasBadge Datalink—Connects via a graphic software package and USB PC connection. Allows download and viewing of alarm events.

DSX Docking Stations—Maintenance stations provide easy bump tests and calibration, with automated record-keeping to help preserve compliance data.

Cloud-Connected 44ZC46 offers automatic schedule tracking with email alerts and notifications about worker exposure and instrument use and service needs.

Standalone 44ZC32 automatically detects calibration gas type and expiration date when a cylinder is connected. It can automatically print bump and calibration certificates to a USB direct-connect printer (sold separately).

Description	Sensor Range	Mfr. Model	Item No.
Gas Detectors			
CO	0 to 1500 ppm	18100060-1	**6NE64**
H_2S	0 to 500 ppm	18100060-2	**6NE63**
O_2	0 to 30% v/v	18100060-3	**6NE65**
Replacement Sensors			
CO	0 to 1500 ppm	17124983-1	**1TAY6**
H_2S	0 to 500 ppm	17124983-2	**1TAY7**
O_2	0 to 30% Vol	17124983-3	**1TAY8**

Description	Mfr. Model	Item No.
Datalink		
Single Unit	18106260	**2PY62**
DSX Docking Stations		
i Cloud-Connected with 3 Gas Inlet Ports	18109331-131	**44ZC46**
Standalone with 3 Gas Inlet Ports	18109331-031	**44ZC32**

Calibration Check Gas Cylinders

INDUSTRIAL SCIENTIFIC

For calibration and maintenance of Industrial Scientific gas monitors. Certified component concentrations. Cylinders require regulator (sold separately). Kits include cylinders, regulator, and carrying case. Flow Regulator 2NXL2 attaches to cylinder to provide proper flow rate and indicates when it is empty.

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.
Calibration Gas Cylinders			
100 ppm CO, 18% O2, 25% LEL Pentane	34 L	18109190	**36J508**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	34 L	18109191	**36J509**
100 ppm CO, 2.5% Methane, 25 ppm H2S, 18% O2	58 L	18109156	**36J475**
25 ppm NH3	58 L	18102151	**5HP31**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	58 L	18109155	**36J474**
2.5% CH4	103 L	18101378	**5HP20**
18% O2, 25% LEL Pentane	103 L	18109173	**36J503**
20.9% Zero Grade O2	103 L	18101584	**5HP25**
50 ppm CO	103 L	18102230	**5HP70**
100 ppm CO, 18% O2, 25% LEL Pentane	103 L	18109165	**36J502**
100 ppm CO, 25% LEL Pentane, 25 ppm H2S, 18% O2	116 L	18109157	**36J476**

Gas Type	Cylinder Size	Mfr. Model	Item No.
Calibration Gas Kits			
CH4, CO, H2S, O2	58 L	18102275	**5HP85**
C5H12, H2S, O2	58 L	18102188	**5HP59**
C5H12, CO, H2S, O2	58 L	18102189	**5HP60**
C5H12, CO, O2	103 L	18102269	**5HP82**

Description	Mfr. Model	Item No.
Gas Cylinder Regulators		
Regulator for 34L	18100933	**1VK90**
Demand Flow Regulator for 34L	18103564	**1VL26**
Demand Flow Regulator for 58/103 L	18102509	**1VL24**
Demand Flow Regulator for 34/58/103L with iGas Pressure Switch	18105841	**2NXL2**

Find Gas Abbreviation information on page 1800.

Honeywell

BW GasAlertMicroClip XL Multi-Gas Detectors

Slim, compact units have concussionproof housing, easy-to use 1-button operation, and an easy-to-navigate interface. IntelliFlash feature provides continuous visual confirmation of detector operation and compliance. Include rechargeable lithium polymer battery, charging adapter, and calibration/test cap and hose.

35HY03

Description	Black Housing Mfr. Model	Black Housing Item No.	Yellow Housing Mfr. Model	Yellow Housing Item No.
Detectors				
LEL, O_2, H_2S, CO	MCXL-XWHM-B-NA	**35HY03**	MCXL-XWHM-Y-NA	**35HY04**
LEL, O_2, H_2S	MCXL-XWH0-B-NA	**35HY07**	MCXL-XWH0-Y-NA	**35HY08**
LEL, O_2, CO	MCXL-XW0M-B-NA	**35HY05**	MCXL-XW0M-Y-NA	**35HY06**
LEL, O_2	MCXL-XW00-B-NA	**35HY17**	MCXL-XW00-Y-NA	**35HY18**
O_2, CO	MCXL-X00M-B-NA	**35HY13**	MCXL-X00M-Y-NA	**35HY14**

Description	Mfr. Model	Item No.
Replacement Sensors		
LEL	SR-W-MP75C	**33N517**
O2	SR-X2V	**5ZXG5**
H2S	SR-H-MC	**9JEC7**
CO	SR-M-MC	**8VY13**
Accessories		
Manual Aspirator Pump Kit with 1 ft. Probe	MC-AS01	**9LE19**
Vehicle Battery Charger, 12VDC	GA-VPA1	**8PZM7**
Datalink Kit with Fleet Manager II Software	GA-USB1-IR	**9LNA2**

BW GasAlertQuattro Multi-Gas Detectors

Honeywell

Easy-to-use 1-button operation with graphic LCD and easy-to-identify icons indicating operational data such as bump test and calibration status to ease onsite auditing. IntelliFlash feature provides continuous visual confirmation of detector operation and compliance. 5ZYY3 includes a rechargeable battery pack and wall charger. 33N506 includes a 3 AA alkaline battery pack.

Confined Space Kit—Includes detector, manual aspirator kit, IR connectivity kit, calibration cap, regulator, sampling probe, calibration gas, and rechargeable battery pack.

5ZYY3

Description	Mfr. Model	Item No.
Detectors		
CO, H2S, LEL, O2	QT-XWHM-R-Y-NA	**5ZYY3**
CO, H2S, LEL, O2	QT-XWHM-A-Y-NA	**33N506**
Confined Space Kit		
CO, H2S, LEL, O2	QT-XWHM-R-Y-NA-CS	**5ZYY2**
Replacement Sensors		
(LEL) Combustible Gases	SR-W04-75C	**5ZXG4**
O2	SR-X2V	**5ZXG5**
H2S	SR-H04-SC	**5ZXG6**
Accessories		
Manual Aspirator Pump	QT-AS01	**5ZXG2**
Sampling Probe	GA-PROB1-1	**8WDY2**
Rechargable Battery Pack	QT-BAT-R01	**5ZXF9**

Honeywell

BW GasAlertMicro 5 Series Multi-Gas Detector

Includes specified sensor(s), concussionproof housing, data logging, calibration/test adapter and hose, rechargeable lithium polymer batteries, and charging adapter.

33N505

Description	Mfr. Model	Item No.
Detector		
CO, H2S, LEL, O2	M5-XW0Y-R-P-D-Y-N-00	**33N505**
Replacement Sensors		
LEL	SR-W04	**3WRH1**
CO, H2S	D4-RHM04	**3WRG9**
Accessories		
Motorized Sample Draw Pump Kit	M5-PUMP	**33N481**
Sample Draw Pump with 1-ft. Probe	GA-AS02	**33N513**
Battery Charger	M5-C01	**33N499**
Vehicle Battery Charger, 12VDC	GA-V-CHRG4	**33N498**

BW GasAlertMax XT II Multi-Gas Detectors

Honeywell

Detector—Features 1-button operation and motorized pump for remote sampling. Include rechargeable lithium polymer battery, charging adapter, quick-connect calibration hose, quick-connect sampling hose with particulate filer, and 5 spare pump filters.

Confined Space Kit—Includes GasAlertMax XT II Detector, IR connectivity kit, regulator, sampling probe, and calibration gas.

6DMY7

Description	Mfr. Model	Item No.
Detector		
CO, H2S, LEL, O2	XT-XWHM-Y-NA	**6DMY7**
Confined Space Kit		
CO, H2S, LEL, O2	XT-XWHM-Y-NA-CS	**23M807**
Replacement Sensors		
LEL	SR-W-MP75C	**33N517**
O2	SR-X2V	**5ZXG5**
CO	SR-M-MC	**8VY13**
H2S	SR-H-MC	**9JEC7**
Accessories		
Carrying Case with Alligator Clip	GA-BXT	**8YPG0**
Datalink Kit with Fleet Manager II Software	GA-USB1-IR	**9LNA2**

Honeywell

BW Clip Single Gas Detectors

Compact, lightweight design features 1-button operation and 2 yr. continuous use without calibration, sensor replacement, or battery recharging/replacement. Extend the working life of detectors with the Hibernation Case, sold separately.

36VM87

Description	Sensor Range	Default Alarm Setpoints Low	Default Alarm Setpoints High	Mfr. Model	Item No.
Detectors					
H_2S	0 to 100 ppm	10 ppm	15 ppm	BWC2-H	**36VM87**
H_2S	0 to 100 ppm	5 ppm	10 ppm	BWC2-H510	**41HG92**
H_2S	0 to 100 ppm	5 ppm	15 ppm	BWC2-H515	**41HG93**
O_2	0 to 25% Vol	19.5% vol.	23.5% vol.	BWC2-X	**41GJ22**
CO	0 to 300 ppm	35 ppm	200 ppm	BWC2-M	**41HG96**
CO	0 to 300 ppm	50 ppm	200 ppm	BWC2-M50200	**41HG97**
SO_2	0 to 100 ppm	5 ppm	10 ppm	BWC2-S	**41HG99**
SO_2	0 to 100 ppm	2 ppm	4 ppm	BWC2-S24	**41HH01**
Accessories					
Hibernation Case				CLIPHB-CASE	**36VN33**
Hard Hat Clip				GA-HC-1	**3UCD1**

BW GasAlert Extreme Single Gas Detectors

Honeywell

Feature an easy On/Off operation, multilanguage display, and data logging. Include concussionproof housing and calibration/test cap and hose.

Description	Sensor Range	Mfr. Model	Item No.
Detectors			
H2S	0 to 100 ppm	GAXT-H-DL	**4KEE5**
CO	0 to 1000 ppm	GAXT-M-DL	**4KEE6**
SO_2	0 to 100 ppm	GAXT-S-DL	**4KEE8**
Cl_2	0 to 50 ppm	GAXT-C-DL	**4KEE9**
NO_2	0 to 100 ppm	GAXT-D-DL	**4KEF2**
NH_3	0 to 100 ppm	GAXT-A-DL	**4KEF3**
CLO_2	0 to 1 ppm	GAXT-V-DL	**23M615**
Replacement Sensors			
H2S	0 to 500 ppm	PS-RH04S	**4UDY6**
CO	0 to 1000 ppm	SR-M04-SC	**5ZXG7**
SO2	0 to 500 ppm	PS-RS04	**4KEF4**
Cl2	0 to 50 ppm	PS-RC10	**4KEF5**
NO2	0 to 99.9 ppm	PS-RD04	**8EMM4**
NH3	0 to 100 ppm	SR-A04	**4KEF7**
Accessories			
Sample Draw Pump with 1-ft. Probe		GA-AS02	**33N513**
Carrying Case with Alligator Slip		GA-BALERT	**4KEF8**
Hard Hat Clip		GA-HC-1	**3UCD1**

4KEE5

Find Gas Abbreviation information on page 1800.

MSA The Safety Company

Altair Single Gas Detectors

- 95dB audible, visual, and vibrating alarms
- IP67 rating for dust and water ingress

2-yr. disposable unit features 1-button operation, bump test, and 25-alarm memory. Includes lithium battery.

2YA39

Description	Sensor Range	Mfr. Model	Item No.
Detectors			
O2	0 to 25% v/v	10092523	**2YA41**
CO	0 to 500 ppm	10092522	**2YA39**
H2S	0 to 100 ppm	10092521	**2YA40**

MSA The Safety Company

Calibration Check Gas Cylinders and Automated Test Stations

Calibration Gas Cylinders— Aluminum 500 psig cylinders contain sufficient gas for multiple MSA instrument calibrations. Required regulator sold separately.

Automated Test Stations—Galaxy GX2 stands provide simple, efficient gas detector testing, calibration, and charging. Compatible with detector data management systems.

2TEY1

23YD97 (Gas Detector Sold Separately)

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.
Calibration Gas Cylinders			
100 ppm C_4H_8	34 L	10048279	**2TEY3**
15% O_2, 60 ppm CO, 20 ppm H_2S, 1.45% CH_4	34 L	10048280	**2TEY1**
60 ppm CO, 20 ppm H_2S, 15% O_2, 1.45% CH_4, 2.5% CO_2	58 L	10103262	**5EMR2**
40 ppm H_2S	58 L	467897	**4MD09** *
15% O_2, 60 ppm CO, 20 ppm H_2S, 1.45% CH_4	58 L	10045035	**6BU74** *
15% O_2, 300 ppm CO, 10 ppm H_2S, 1.45% CH_4	58 L	804770	**4LP28** *
15% O_2, 60 ppm CO, 1.45% CH_4	100 L	478191	**4LP25** *
Calibration Kits			
Fixed-Flow Regulator 0.25 Lpm, Tubing, Adapter Fitting, and Fitted Case		10050984	**6RRC6**
Demand-Flow Regulator, Tubing, Adapter Fitting, and Fitted Case		10050985	**6RRC7**
Accessories			
Demand-Flow Regulator with Calibration Tubing and Adapter Fitting		710288	**4LP38**
Fixed-Flow Regulator 0.25 Lpm		467895	**6BU75** †
Cylinder Devalving Tool		711228	**6BU76**
Preaddressed Recycling Box		711227	**6BU77**
Automated Test Stations (Charging) For Use with Altair 5X Galaxy GX2			
4 Valve (For use with 1 to 4 Calibration Gas Cylinders)		10128625	**23YD97**
1 Valve (For use with 1 Calibration Gas Cylinder)		10128626	**23YD98**
Automated Test Stations (Not Charging) For Use with Altair 5X Galaxy GX2			
4 Valve (For use with 1 to 4 Calibration Gas Cylinders)		10128627	**23YD99**

** Reactive gases. † Can be used with chlorine and ammonia.*

MSA The Safety Company

Ventilation Smoke Tube Kit

Generates controlled smoke to help you see velocity, direction, and flow of slow-moving air currents. Includes aspirator bulb, 2 rubber plugs, and 6 smoke tubes.

4LP18

Description	Mfr. Model	Item No.
Smoke Tube Kit	458481	**4LP18**
Replacement Tubes, Pkg. of 12	458480	**6BU78**

MSA The Safety Company

Altair 2X and Altair 2XP Single Gas Detectors

- 95dB audible, visual, and vibrating alarms
- IP67 rating for dust and water ingress

The superior performance and long service life of XCell sensor technology in a rugged rubberized armor housing offer enhanced wearer safety, compliance, and traceability, as well as drastically reduced total cost of ownership.

Altair 2X—Speedy sensor response and recovery reduce gas consumption for calibration and gas bump tests.

Altair 2XP—XCell Pulse technology and simple flow check deliver a daily stand-alone bump test without specific calibration gas or accessories.

20PG63

Description	Sensor Range	Mfr. Model	Item No.
Altair 2X			
CO	0 to 1999 ppm	10153986	**20PG65**
Altair 2XP			
H_2S-Pulse	0 to 200 ppm	10153984	**20PG63**
Replacement Sensors			
CO	0 to 200 ppm	10152603	**33RJ54**
H_2S-Pulse	0 to 200 ppm	10121227	**33RJ53**

MSA The Safety Company

Altair 5X Multi-Gas Detectors

- Audible (95+dB), visual, and vibrating alarms
- MotionAlert 30-sec. "man down" sensor

Rugged, datalogging portable detectors employ XCell technology for faster performance and more than 4 yr. typical sensor life. Large buttons allow easy operation with gloved hands. Each includes calibration cap, tubing, and charger.

Altair 5X—Integral pump for consistent flow. Kits 6RRA1, 6RRA0, 6RPZ9, 6RPZ8, and 45KE55 come with 10-ft. sampling line and 1-ft. probe. 44KE54 and 44KE55 measure gases simultaneously and detect VOCs.

- IP65 rating for dust and water ingress

6RRA1

Description	Mfr. Model	Item No.
Altair 5X Detectors with Color LCD		
CO, H2S, LEL, O2, SO2, Lithium-Ion/20 hr	10116929	**6RRA1**
CO, H2S, LEL, O2, Rechargeable Lithium-Ion/20 hr	10116928	**6RRA0**
Altair 5X Detectors with Monochrome LCD		
CO, H2S, LEL, O2, SO2, Lithium-Ion/20 hr	10116927	**6RPZ9**
CO, H2S, LEL, O2, Lithium-Ion/20 hr	10116926	**6RPZ8**
CO, H2S, LEL, O2, SO2, Lithium-Ion/20 hr	10116925	**6RPZ7**
CO, H2S, LEL, O2, Lithium-Ion/20 hr	10116924	**6RPZ6**
Altair 5X Detectors with PID and Monochrome LCD		
LEL, O_2, CO, H_2S, PID, /13 hr	10165445	**45KE54**
LEL, O_2, CO, H_2S, PID, Lithium-Ion/13 hr	10165446	**45KE55**
Replacement Sensors		
LEL	10106722	**5ERK9**
O2	10106729	**5ERL3**
CO, H2S	10106725	**5ERL2**
Accessories		
Sample Draw Pump Probe, 1 ft.	10042621	**5EMP3**
Sampling Line, 10 ft	10040665	**5EMP1**
Silicone Sampling Line, 25 ft	10040664	**5EMP2**
Lithium-Ion Replacement Battery Pack	10114835	**6RRA8**
AA Alkaline Replacement Battery Kit	10114837	**6RRA9**
Vehicle Battery Charger	10099397	**6RRA7**
USB Adapter	10082834	**2TEY4**

Find Gas Abbreviation information on page 1800.

36E613

Dräger

X-am 5600 Multi-Gas Detectors

6-gas capacity detectors are offered in dual and single sensor configurations, with specified gas sensors. Fast, durable infrared sensors last up to 8 yr., and need calibration only every 12 mo. Select units have an IR-Ex sensor that eliminates the need for catalytic Ex sensors.

Note: Replacement sensors and accessories are available on Grainger.com; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detectors—Small, robust instruments with simple 2-button control detect and log oxygen and explosive, combustible, and toxic gases and vapors. Large LCD shows all readings and can display peaks, STELs, and TWAs.

An excellent personal monitor, it can be combined with an X-zone 5500 (sold separately, this page) to monitor entire areas.

- Visual alarm
- Suitable for use in Ex zone 0 explosive atmospheres
- X-zone 5000 series compatible

Accessories—Time-saving Bump Test Station, with pressure gauge and regulator, is for use with X-am 5600 and X-am 5000 detectors. Remote Sampling Pump reaches up to 66 ft. Includes locking dust/water stop filter, shoulder strap, and batteries.

Description	Mfr. Model	Item No.
Detector with NiMH Battery and Charger		
IR-EX/O_2,/H_2S,/HCN	4542116	**36E612**
Detector with Alkaline Batteries		
IR-Dual Ex/O_2/SO_2/Dual H_2S/CO	4542119	**36E613**
Accessories		
Bump Test Station	8319131	**36E910**
Remote Sampling Pump	8319400	**36D978**
Dust/Water Stop Filter for 36D978	4543759	**36F201**

Dräger

X-zone 5500 Wireless Gas Monitor

21EP34

- Visual and audible (adjustable volume) alarms
- Suitable for use in Ex zone 0 explosive atmospheres

Stand-alone, easily transported monitor helps provide a safe environment in hazardous areas. Control and sensing are provided by an X-am 5600 or X-am 5000 detector, with appropriate sensors (sold separately, this page). Multiple units can be employed to define a wireless extended monitoring fence line. Includes diffusion cap, pump, and battery.

Description	Mfr. Model	Item No.
Wireless Gas Monitor with 24 Ah Battery	8324825	**21EP34**
Plug-In Charger for 21EP34	8320749	**21EP39**

Dräger

Pac 7000 Single Gas Detectors

36D918

Miniature XXS sensors offer fast reaction times and 5- to 6-yr. expected service life. Impact-resistant housing helps protect against corrosive chemicals and radio interference. Battery life is 2880 hr. for O_2, 5760 hr. for H_2S and CO. Detector life is unlimited. Offered in select configurations.

Note: Replacement sensors and accessories are available on Grainger.com; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detectors—Small, robust personal monitors have user-friendly features including a large LCD with backlight and 1-handed operation, even when wearing gloves. Adjustable intervals for tests and calibration, reminders, and "out of order" message if overdue or failed. 120-hr. data logger has date and time stamp.

- Visual, audible, and vibrating alarms
- Adjustable TWA and STEL alarms
- IP68 dust and water ingress protection

Accessories—Bump Test Station quickly checks instruments and sensors, and provides automatic calibration in case of unsuccessful tests.

Description	Sensor Range	Mfr. Model	Item No.
Detectors			
CO_2	0 to 5 Vol %	8318975	**36D915**
CO	0 to 2000 ppm	8318970	**36D914**
HCN	0 to 50 ppm	8318973	**36D917**
H_2S	0 to 100 ppm	8318971	**36D916**
NH_3	0 to 300 ppm	8318979	**36D918**
O_2	0 to 25 Vol %	8318972	**36D921**
SO_2	0 to 100 ppm	8318976	**36D923**
Accessories			
Bump Test Station		8317410	**36E911**
Leather Carrying Case with Belt Loop		4543822	**36F132**

Dräger

X-am 5000 and 2500 Multi-Gas Detectors

36F324

Extended-life monitors can be used with multiple sensors to monitor explosion hazards.

Note: Replacement sensors and accessories are available on Grainger.com; search for "draeger replacement sensors" or "draeger gas detector accessories."

Detectors—Lightweight and easy-to-operate instruments show all readings at once on their large LCDs. They store peak values, which are easily reset.

- Visual alarm
- Suitable for use in explosion zone 0 areas
- IP67 water- and dust-resistant
- X-dock compatible (sold separately, available on Grainger.com)

Accessories—Time-saving Bump Test Station, with pressure gauge and regulator, is for use with X-am 5600 and X-am 5000 detectors. Remote Sampling Pump reaches up to 66 ft. Includes locking dust/water stop filter, shoulder strap, and batteries.

Description	Mfr. Model	Item No.
X-am 5000 Detectors		
CH4, O_2 CO, H_2S	4543752	**36E604**
CH4, O_2 CO	4543753	**36E602**
X-am 2500 Detectors		
CH4, O_2 CO, H_2S	4542261	**36F324**
CH4, H_2S	4542285	**36F323**
Accessories		
Bump Test Station	8319131	**36E910**
Remote Sampling Pump	8319400	**36D978**
Dust/Water Stop Filter for 36D978	4543759	**36F201**

Detector Tubes

accuro Pump Kit
3WZF2

Dräger

Gas Detection Tubes and Tube Pumps

Tubes have a wide diameter and well-spaced graduations that are easy to read and help provide decisive measurement results.

Pump Kits include pump, tube opener, spare parts kit, and Allen wrench. 3YWY6 also includes a pkg. of 10 rubber caps.

Detects For	Measuring Range	Mfr. Model	Item No.	Pkg. Qty.
Detector Tubes				
Acetic Acid	5 to 80 ppm	6722101	**29XM34**	10
Air Current Smoke Tube	N/A	CH25301	**29XP01**	10
Ammonia	0.25 to 3 ppm	8101711	**29XM41**	10
Ammonia	0.05 to 10% Vol.	CH31901	**29XM42**	10
Ammonia	2 to 30 ppm	6733231	**29XM43**	10
Ammonia	5 to 600 ppm	CH20501	**29XM44**	10
Ammonia	2.5 to 100 ppm	8101941	**29XM45**	10
Benzene	5 to 50 ppm	6728071	**29XM50**	10
CH2Cl2	20 to 200 ppm	8103591	**29XN93**	10
Chlorine	0.3 to 5 ppm	6728411	**29XM68**	10
ClO2	0.025 to 1ppm	8103491	**29XN83**	10
CO	5 to 700 ppm	CH25601	**29XM63**	10
CO	8 to 50 ppm	CH19701	**29XM65**	10
CO2	0.1 to 6% Vol.	CH23501	**29XM52**	10
CO2	5 to 60% Vol.	CH20301	**29XM56**	10
Ethylene Oxide	25 to 500 ppm	6728241	**29XM88**	10
Formaldehyde	2 to 40 ppm	8101751	**29XM91**	10
Formic Acid	1 to 15 ppm	6722701	**29XM92**	10
H2S	0.2 to 7% Vol.	CH28101	**29XN05**	10
H2S	0.2 to 5 ppm	8101461	**29XN06**	10
H2S	0.2 to 6 ppm	8101991	**29XN07**	10
H2S	0.5 to 15ppm	6728041	**29XN08**	10
H2S	1 to 200 ppm	8101831	**29XN09**	10
H2S	100 to 2000 ppm	CH29101	**29XN10**	10
H2S	2 to 200 ppm	6728821	**29XN12**	10
H2S	1 to 60 ppm	8101961	**29XN13**	10
H2S	5 to 60 ppm	CH29801	**29XN14**	10
HCL	50-5000 ppm	6728181	**29XM96**	10
HCl	0.2 to 20 ppm	8103481	**29XN90**	10
HCL / HNO3	HCL 1 to 10 ppm, HNO3 1 to 15 ppm	8101681	**29XM97**	10
Hexane	50 to 3000 ppm	8103681	**29XN24**	10
HF	0.5 to 90 ppm	8103251	**29XN01**	10
HF	1.5 to 15 ppm	CH30301	**29XN02**	10
Hydrazine	0.1 to 10 ppm	CH31801	**29XM93**	10
Hydrazine	0.01 to 6 ppm	8103351	**29XN89**	10
Hydrogen	0.2 to 2% Vol.	8101511	**29XM99**	10
Hydrogen Cyanide	0.5 to 100 ppm	8103601	**29XM98**	10
Mercaptans	0.5 to 5 ppm	6728981	**29XN15**	10
Mercaptans	0.1 to 15 ppm	8103281	**29XN16**	10
Mercury	0.05 to 2 mg/cu m	CH23101	**29XN18**	10
Nitrous Fumes	2 to 150 ppm	CH31001	**29XN29**	10
NO2	2 to 100 ppm	6719101	**29XN26**	10
Oxygen	5 to 23% Vol.	8103261	**29XN37**	10
o-Xylene	10 to 400 ppm	6733161	**29XN38**	10
PHC	10 to 300 ppm	8101691	**29XN46**	10
Phenol	1 to 20 ppm	8101641	**29XN48**	10
Phosgene	0.02 to 1 ppm	8101521	**29XN49**	10
Phosphine	0.01 to 1 ppm	8101611	**29XN52**	10
Toluene	100 to 3000 ppm x hr	8101421	**29XN67**	10
Toluene	5 to 300 ppm	8101661	**29XN68**	10
Water Vapor	1 to 40mg/L	CH23401	**29XN75**	10
Water Vapor	1 to 40mg/L	8101781	**29XN77**	10
Water Vapor	3 to 60lbs/mmcf	8103031	**29XN79**	10
Detector Tube Pump Kits				
With Soft-Sided Case		DRAEGER 8317186	**3WZF2**	1
With Plastic Case		4056443	**3YWY6**	1

33V737

GASCO

Bump Gas

Designed for bump testing gas detection equipment. Ideal for field applications where access to gas is not available for gas detector verification. Nonaerosol and nonflammable.

Gas Mixture	Mfr. Model	Item No.
200 PPM Carbon Monoxide, 40 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 10% Oxygen, Balance Nitrogen	10L-490T	**33V740**
100 PPM Carbon Monoxide, Balance Air	Bump It-50-100	**33V737**
75 PPM Ammonia, Balance Nitrogen	Bump It-13-75	**33V739**

16N124

33V726

33V733
(Gas Cylinders and Regulators Sold Separately)

GASCO

ecosmart Recyclable Calibration Gas Cylinders

Calibration gas helps keep gas detectors working; ecosmart cylinders hold more gas than traditional disposable cylinders. Recyclable cylinders are designed to help eliminate waste in the environment. Contact GASCO for a free return shipping label.

Gas Mixture	Cylinder Cap.	Mfr. Model	Item No.
ecosmart Calibration Gas Cylinders			
100 PPM Carbon Monoxide, 25 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 18% Oxygen, Balance Nitrogen	44 L	44ES-421	**16M285**
50 PPM Ammonia, Balance Air	58 L	58L-14-50	**49Y763**
10 PPM Hydrogen Cyanide, Balance Nitrogen	66 L	66ES-HCN-10	**16M738**
60 PPM Carbon Monoxide, 20 PPM Hydrogen Sulfide, 1.45% Methane (29% LEL)(58% LEL Pentane Simulant), 15% Oxygen, Balance Nitrogen	66 L	66ES-428-20	**16M597**
100 PPM Carbon Monoxide, 25 PPM Hydrogen Sulfide, 2.5% Methane (50% LEL) , 18% Oxygen, Balance Nitrogen	66 L	66ES-421	**16M590**
2.5% Methane (50% LEL) , Balance Air	116 L	116ES-135A-2.5	**16N111**
20.9% Oxygen, Balance Nitrogen	116 L	116ES-1	**16N124**
25 PPM Hydrogen Sulfide, Balance Nitrogen	116 L	116ES-98-25	**16N158**
100 PPM Isobutylene, Balance Air	116 L	116ES-248-100	**16N108**
Gas Cylinder Regulators			
0.25 LPM	—	70-0.25	**33V726**
0.5 LPM	—	70-0.5	**33V728**
1.0 LPM	—	70-1.0	**33V729**
1.5 LPM	—	70-1.5	**33V730**
Demand Flow Regulator	—	75-DFR	**33V731**
Multiflow Regulator 0.3 to 8.0 LPM	—	74-DAF	**33V732**
Hard Plastic Carrying Case			
Holds (2) 116L Cylinders and Regulators	—	CC-58-AL	**33V733**

WATER-JEL TECHNOLOGIES

Burn Dressings, Creams, and Gels

Sterile dressings are medical-grade, nonwoven polyester soaked in a water-based, water-soluble gel to help prevent burn progression. Creams and gels help relieve pain and protect wounds from contamination.

415J23

2AD94

Description	Item No.	Pkg. Qty.
Sterile Dressings		
4 in x 4 in	415J23	15
4 in x 4 in, Unitized Package	1PCZ9	1
4 in x 16 in	415J24	7
Creams and Gels		
Burn Cream, 0.9g	1PBZ3	25
Burn Cream, 0.9g	1PBZ5	144
Cool Burn Gel, 0.125 oz	4RL91	25
Burn Gel, 0.125 oz	2AD94	25
Triple Antibiotic Ointment, 0.9g	1PCC4	25
Triple Antibiotic Ointment, 0.9g	1PCC6	144
Neomycin Sulfate Cream, 0.9g Foil Packs	1PBZ7	25
Neomycin Sulfate Cream, 0.9g Foil Packs	1PBZ9	144
Hydrocortisone Cream, 0.9g	1PBY4	25

Médique® MEDI-FIRST® Honeywell HEAT factory

Pain Relief Gel, Cold Packs, and Heated Wrap

Help relieve minor aches and pains.

5GTH7

3LPG2

3ZLA1

Description	Brand	Item No.	Pkg. Qty.
Biofreeze Gel, 4-oz. Tube	Biofreeze	5GTH7	1
Biofreeze Gel, 16-oz. Pump	Biofreeze	5GTH8	1
Cold Pack, 6 in x 4 in	Medi-First	3LPG2	1
Cold Pack, Unitized	Honeywell	2AG23	1
Cold Pack, 5 in x 6 in	Honeywell	4T362	10
Cold Pack, 5 in x 9 in	Honeywell	1PCH4	24
Heated Back Wrap	Heat Factory USA	3ZLA1	1
Replacement Warmer for 3ZLA1	Heat Factory USA	3ZKZ9	3

SunX® Médique® IvyX™ BugX™

Outdoor Skin Protection

SunX SPF 30+ Sunscreen—Nongreasy, water-resistant formula provides both UV-A and UV-B protection.

Medique—Medicated lip ointment with all natural ingredients to soothe and hydrate dry, chapped lips.

IvyX—Provide an invisible barrier for precontact protection against poison ivy, oak, and sumac. Cleansers help remove plant oils from skin after contact with poisonous plants.

BugX—Contain 30% DEET to effectively repel fleas, flies, mosquitoes, and ticks.

1PBT3

3UUG9

3VAN6

1PBU6

Description	Item No.	Pkg. Qty.
SunX SPF30+ Sunscreen		
Lotion, 2 oz.	1PBT5	1
Lotion, 4 oz.	1PBT3	1
Lotion, ¼-oz. Pouch	8C298	50
Medique Lip Guard		
0.9g Foil Packs, Unitized	3UUG9	20
IvyX Poison Ivy and Oak Skin Protection		
Cleanser Lotion, 8 oz.	3VAN6	1
Cleanser Towelettes, 6⅓ x 8¼"	3VAN4	25
BugX Insect Repellents		
Pump Spray, 2 oz.	1PBU6	1
Towelettes, 8 x 5"	6AZ07	50

48LW60

2MRZ2

36LF43

3LPH3

3WHT9

2MRY3

14N933

3UCH9

WATER-JEL® TECHNOLOGIES MEDI-FIRST® Médique® swan® FIRST AID ONLY NEOSPORIN® PhysiciansCARE

Topical Skin Treatment

Help clean skin and protect it from contamination.

Description	Brand	Item No.	Pkg. Qty.
Antiseptic			
Burn Spray, 2 oz	Waterjel	8AX14	1
Antiseptic Spray, 2 oz	Medi-First	48LW60	1
Antiseptic Wipes, 5 in x 8 in	—	3VAL5	20
Antiseptic Wipes, 4 ¾ in X 7 ¾ in	Medi-First	14U289	100
Isopropyl Alcohol			
Isopropyl Alcohol, 70%, 16 oz.	Medique	2MRZ2	1
Isopropyl Alcohol, 99%, 16 oz.	Swan	3WHL3	1
Isopropyl Alcohol, 99%, 1 gal.	Medique	3WHL2	1
Alcohol Wipes, 2 ¼ in x 1 ⅛ in	First Aid Only	36LF43	100
Triple Antibiotic Ointment			
Neosporin, 1-oz. Tube	Neosporin	14N927	1
Neosporin, 0.9g Foil Packs	Neosporin	14N928	144
Triple Antibiotic Ointment, 0.5g Foil Packs, Unitized	Medi-First	3LPH3	144
Triple Antibiotic Ointment, 0.9g	Waterjel	1PCC6	144
Neomycin Sulfate Ointment			
Single Antibiotic Ointment, 0.9g	First Aid Only	3WHT9	10
Blood Clotter Spray			
3 oz.	Medique	2MRY2	1
Topical Coolant Spray			
4 oz.	Medique	2MRY3	1
Lip Treatment			
0.9g Foil Packs, Unitized	Medique	3UUG9	20
Vaseline Petroleum Jelly			
3.25 oz.	PhysiciansCare	3EWJ8	1
Petroleum Jelly			
15 oz.	First Aid Only	5DXX7	1
Bactine			
Spray, 5 oz.	Bactine	14N933	1
Liquid, 4 oz.	Bactine	14N934	1
Anti-Sting Wipes			
1.1g Foil Packs	First Aid Only	3UCH9	25

6TEW6

36LF41

FIRST AID ONLY
MEDI-FIRST Honeywell

Bandages and Dressings

Help protect minor cuts and scrapes.

3JNK6

4RM13

Description	Brand	Item No.	Pkg. Qty.
Adhesive Cloth Bandages			
Fingertip, 1 ¾ in x 3 in, Fabric	—	483T57	40
1 ⅜ in x 2 in, Fabric	First Aid Only	39N889	50
¾ in x 3 in, Fabric	First Aid Only	41CP80	100
⅞ x 3", Fabric	Medi-First	3JMG3	50
1 in x 3 in, Fabric	Honeywell	45W720	16
Bandages, 1 in x 3 in, Fabric	First Aid Only	6TEW6	100
2 in x 3 in, Fabric	First Aid Only	36LF36	25
2 in x 3 in, Fabric	First Aid Only	39N882	50
Knuckle, 1 ½ in x 3 in, Fabric	First Aid Only	41CP67	100
Knuckle, 1 ½ in x 3 in, Fabric	First Aid Only	39N883	8
Bandages, Knuckle, 3 ¼ in x 3 ½ in, Fabric	First Aid Only	36LF31	40
Heavy Adhesive Cloth Woven Bandages			
Knuckle, 3 ¾ in x 3 ¼ in, Fabric	Honeywell	3EVZ6	40
Bandages, ¾" x 3", Adhesive Plastic	First Aid Only	39N861	16
Adhesive Plastic Bandages			
1 in x 3 in, Plastic	First Aid Only	39N858	16
Bandages, 1 in x 3 in, Plastic	First Aid Only	36LF30	100
Bandages, 2 in x 4 in, Plastic	First Aid Only	36LF41	25
Butterfly, Large, ½ in x 2 ¾ in, Plastic	First Aid Only	39N865	16
Metal-Detectable Bandages			
1" x 3", Plastic, Blue	Medi-First	3JNK6	100
Adhesive Tape			
½" x 2½ yd.	Honeywell	1PCZ7	2
½" x 5 yd.	Honeywell	5M566	1
½" x 10 yd.	Honeywell	3EWC1	1
1" x 10 yd.	Honeywell	3EWC3	1
Elastic 1" x 5 yd.	Honeywell	3EWC4	1
2" x 5 yd. Latex-Free Waterproof	Honeywell	1PCG1	1
Compresses			
5" x 8" Bloodstopper	Honeywell	3EWD5	1
12" x 30" Multitrauma Dressing	Honeywell	3EWE6	1
24" x 72" Gauze Compress	Honeywell	3AV36	1
Triangle Bandage			
Sterile, with Pins	Honeywell	6AN08	1
Self-Adherent Wraps			
1" x 5 yd.	Honeywell	4RM13	5
2" x 5 yd.	Honeywell	4RM14	1
3" x 5 yd.	Honeywell	4RM15	1
4" x 5 yd.	Honeywell	4RM16	1
Pads, Sponges & Gauze Wraps			
2" x 3" Nonadherent Pad, Sterile	Honeywell	4TWG6	10
2" x 2" Gauze Pads, Sterile	Honeywell	3EWD9	25
4" x 4" Gauze Pads, Sterile	Honeywell	4TWG5	10
4" x 4" Gauze Pads, Sterile	Honeywell	3EWE1	25
4" x 4" Gauze Pads, Sterile	Honeywell	3EWE4	100
2" x 2" Gauze Sponges	Honeywell	3EWE7	200
3" x 3" Gauze Sponges	Honeywell	3EWE8	200
4" x 4" Gauze Sponges	Honeywell	3EWE9	200
Gauze Bandages			
3" x 4.1 yd., Sterile	Honeywell	3EWC7	12
Elastic Bandages			
3" x 5 yd.	Honeywell	1PBP5	5
4" x 5 yd.	Honeywell	1PBY2	5

33KE69

45NG79

Medicines sold separately

HEALTH-AID

Medicine Vending Machines

Steel wall-mount cabinets hold up to 6 different types of single-dose medication packets. White color. Medicine packets sold separately on this page and at Grainger.com.

Vending Price	No. of Product Selections	H	W	Item No.
Health Aid 6 Machines				
0.25	6	29 ½ in	20 in	33KE69
0.50	6	29 ½ in	20 in	33KE70
0.75	6	29 ½ in	20 in	33KE71
Health Aid 4 Machines				
Free	6	29 ½ in	20 in	45NG77
0.25	4	21 in	20 in	45NG79
0.50	4	21 in	20 in	45NG80
0.75	4	21 in	20 in	45NG81

14N920

3NNW2

MEDI-FIRST Advil Alka-Seltzer Medique Honeywell

Oral Medicines

For pain, stomach, and cold relief.

Description	Brand	Item No.	Pkg. Qty.
Pain Relief			
Aspirin, 325mg	Medi-First	3NNV1	100
Advil Gel Caplets, 200mg, 50 Packs of 2	Advil	14N920	100
Ibuprofen, 200mg, 50 Packs of 2	Medi-First	3NNW6	100
Ibuprofen, 200mg, 125 Packs of 2	Medi-First	3NNW7	250
Pain Relief Tablets, Extra Strength	Medi-First	3XKY6	100
Pain Relief Tablets, Extra Strength	Medi-First	3NNW4	250
Non-Aspirin Pain Relief	Medi-First	3NNV8	250
Extra Strength Non-Aspirin Pain Relief	Medi-First	3NNW2	250
Acid & Stomach Relief			
Antacid, Calcium Carbonate, 50 Packets of 2	Medi-First	8AY50	100
Antacids and Indigestion Tablets	Medi-First	9WAP6	250
Alka-Seltzer Antacids and Indigestion Tablets	Alka-Seltzer	14N922	24
Allergy, Sinus & Cold Relief			
Sinus and Allergy	Medique	3XKY8	100
Cold and Flu	Medi-First	3NNR2	250
Hydration & Replenishment			
Glucose Gel, 31g	Honeywell	3PAD5	1

9ML59

Eye Care Products

Bausch & Lomb PhysiciansCARE

Eye drops for rewetting and redness relief. Eye wash provides immediate and soothing relief from minor eye irritations.

Description	Brand	Item No.	Pkg. Qty.
Eye Drops, 0.02-oz., Single Use	Bausch & Lomb	9ML59	30
Buffered Eye Wash, 1 oz.	PhysiciansCare	36N054	1
Buffered Eye Wash, 4 oz.	PhysiciansCare	36N055	1
Buffered Eye Wash, 8 oz.	PhysiciansCare	36N056	1
Buffered Eye Wash, 16 oz.	PhysiciansCare	36N057	1
Buffered Eye Wash, 32 oz.	PhysiciansCare	36N058	1

GUARD-TEX Finger Safety Tape

GENERAL BANDAGES

Keep fingers, palms, and wrist safe from abrasive or heated objects while retaining dexterity and sensitivity. Self-adhering, latex-free cotton tape will not stick to skin, hair, or clothing.

▶CHOOSE:

Color	Size	Item No.	Pkg. Qty.
Blue, Green,	¾" x 90 ft.	E1700	16
White	1" x 90 ft.	E1699	12

Honeywell ALLEGRO INDUSTRIES Medique FIRST AID ONLY

5ELT7

2MRY1

2MRY7

First Aid Supplies and Tools

Essential supplies and tools for physicians' offices or other healthcare facilities.

Description	Brand	Item No.	Pkg. Qty.
Supplies			
Cotton Tip Applicators, 3"L	Honeywell	5ELT7	25
Cotton Tip Applicators, 6"L	Allegro	2RPK9	1000
Cotton Tip Applicators, Sterile, 6"L	Honeywell	1VAA9	200
Eye Cups, Plastic	Honeywell	3PAD2	6
Tongue Depressors, 6"L	Medique	2MRY1	500
Tools			
Eye Magnet with Loop Handle	Honeywell	3PAD8	1
Ring Cutter, Stainless Steel, 6½"L,	First Aid Only	2TUV2	1
Splinter Remover, Steel Tri-Bevel Blade with Plastic Case	Medique	2MRY7	10
Tweezer with Magnifier, Pointed, Stainless Steel, 4"L	Medique	2MRZ1	1

ANSI/ISEA Z308.1-2015 Standard for First Aid Kits

The new standard introduces two classes of first aid kits, Class A and Class B. The kits are further designated by type (I, II, III). Each type is intended to address the needs of the work environments where they are used.

Class A—Designed for the most common workplace injuries.

Class B—Designed to be equipped with supplies to deal with injuries encountered in more complex or high-risk environments.

Type I: Intended for use in stationary, indoor applications where kit contents have minimal potential for damage. These kits are not intended to be portable and should have a means for mounting in a fixed position.

Type II: Intended for portable use in indoor applications where the potential for damage to kit supplies due to environmental factors and rough handling is minimal.

Type III: Intended for portable use in mobile indoor and/or outdoor settings where the potential for damage of kit supplies due to environment is not probable. These kits should have the means to be mounted in a fixed position and have a water-resistant seal.

488G87

Class A First Aid Kits

- Meet ANSI/ISEA Z308.1 Standard except 49JE49 to 49JE52

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
I, II	25	89	Plastic	8 in	2.5 in	9 in	**488G87**
I, II	25	94	Metal	9 in	3 in	11.25 in	**45NJ76**
I, II	50	241	Metal	14.25 in	3 in	3.25 in	**40JH19**
I, II	50	241	Plastic	4.125 in	14 in	13 in	**488G89**
III	25	84	Metal	2.375 in	6.3125 in	9 in	**488G83**

Kit Component Description	Components Included with First Aid Kits 488G87	488G83	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape				
Bandages, 1" x 3", Adhesive Plastic, 40 ct.	•		**65DG12**	1
Sterile Eye Pads, 3" x 3"	•		**3WHU2**	10
First Aid Tape, ½ in x 5 yd	•		**36LF70**	1
Trauma Pad, 5" x 9"	•		**48ZE52**	1
Conforming Gauze Roll, 2"	•		**3WHR9**	1
Sterile Gauze Pads, 3" x 3"	•	•	**39N958**	4
Triangular Bandages, 40" x 40" x 56"	•		**3WHT4**	1
Pain Relief and Antiseptics				
BZK Antiseptic Towelettes	•	•	**39N904**	10
Hand Sanitizer Gel Packets, 0.9g	•		**41CR54**	10
Cold Pack, 4" x 5"	•		**45JE51**	1
Personal Eye Wash Bottle, 1 oz.	•		**40JH48**	12
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	**39N914**	12
First Aid/Burn Cream Packets, 0.9g	•		**3WHT8**	10
Burn Dressing, 4" x 4"	•		**45JE50**	1
Additional Items				
CPR Faceshield	•		**40JJ29**	1
First Aid Guide	•	•	**40JJ14**	1
Nitrile Exam Gloves, 2 Pr.	•		**3WHT7**	4
Scissors	•		**65DG26**	1
1 CPR Faceshield, 1 Pr. Scissors & 1 First Aid Tape, ½" x 5yd		•	**480G01**	1
Hand Sanitizer Packets, 0.9 g, 10 ct.		•	**48ZV46**	10
Adhesive Fabric Bandages, 1" x 3", 16ct		•	**39N868**	16
First Aid/Burn Cream Packets, 0.9g, 12ct		•	**39N910**	12
Burn Dressing, 4" x 4"		•	**39N950**	1
Cold Pack, 4" x 5"		•	**39P018**	1
Exam Gloves, Nitrile, 2 Pr.		•	**39P031**	2
Triangular Bandage, 40" x 40" x 56"		•	**39N977**	1
Eye Wash, 1 oz. with 2 Eye Pads and Strips		•	**49H429**	1
Trauma Pad, 5" x 9"		•	**32LA69**	1
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.		•	**480F99**	1

Kit Component Description	Components Included with First Aid Kits 45NJ76	40JH19	488G89	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape					
Bandages, 1" x 3", Fabric	•	•	•	**3WHP9**	25
Bandages, 1½" x 1½", Plastic		•	•	**3WHP8**	10
Bandages, ¾" x 3", Plastic		•	•	**3WHR1**	25
Bandages, Fingertip, Fabric		•	•	**3WHR2**	10
Burn Dressing, 4" x 4"	•	•	•	**45JE50**	1
Gauze Pads, 2" x 2"		•	•	**3WHU1**	10
Sterile Eye Pads, 3" x 3"	•	•	•	**3WHU2**	10
Trauma Pad, 5" x 9"	•			**3WHU3**	1
Trauma Pad, 5" x 9"	•	•	•	**48ZE52**	1
Triangular Bandages, 40" x 40" x 56"		•	•	**3WHT4**	1
Triangular Bandage, CPR Mask	•			**48UE33**	1
First Aid Tape, ½" x 5 yd., Roll Bandage, 2" x 4 yd.		•	•	**45JE49**	1
Pain Relief and Antiseptics					
Alcohol Cleansing Pads		•	•	**3WHR6**	20
Antiseptic Towelettes	•	•	•	**3WHR7**	10
Aspirin Tablets, 325mg, 10 Packets of 2			•	**6XNC3**	20
Extra-Strength Nonaspirin Tablets, 500mg, 10 Packets of 2		•	•	**6XNC4**	20
Ibuprofen Tablets, 200mg, 10 Packets of 2			•	**6XNC5**	20
Cold Pack, 4" x 5"	•	•	•	**45JE51**	1
Eye Wash, 1 oz., 2 Eyepads, First Aid Tape, ½" x 5 yd.	•	•	•	**45JE52**	1
First Aid/Burn Cream Packets, 0.9g	•	•	•	**3WHT8**	10
Hand Sanitizer Gel Packets, 0.9g	•	•	•	**41CR54**	10
Single Antibiotic Ointment, 0.9g	•	•	•	**3WHT9**	10
Additional Items					
CPR Face Shield Kit w/Vinyl Gloves		•	•	**3WHT6**	1
Nitrile Exam Gloves, 2 Pr.	•	•	•	**3WHT7**	4
Bandage Scissors, Angled, 3½"L		•		**39P041**	1
Scissors			•	**65DG26**	1
Tweezers			•	**65DG27**	1
Tweezers, Stainless Steel	•	•		**39P044**	1
First Aid Guide	•	•		**11A320**	1
First Aid Guide			•	**40JJ14**	1

488G84

Class B First Aid Kits

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
I, II	100	676	Metal	16.1563 in	5.5625 in	15 in	**488G85**
I, II	150	447	Metal	4.625 in	10 in	15 in	**488G84**
I, II	150	654	Metal	21 in	5 in	16 in	**65DF97**
I, II	150	909	Metal	23 in	5.5 in	16.5 in	**65DF96**
I, II	200	697	Metal	21 in	5 in	16 in	**65DF99**
I, II	200	937	Metal	23 in	5.5 in	16.5 in	**65DF98**
I, II	200	1436	Metal	22.5 in	15.5 in	6 in	**45NJ74**
III	50	199	Plastic	2.75 in	9.1875 in	9.1875 in	**488G82**

Kit Component Description	Components Included with First Aid Kits 488G84	488G85	45NJ74	488G82	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape						
Bandages, ¾" x 3", Plastic	•				**36LF35**	100
Bandages, 1 in x 3 in, Plastic			•		**36LF30**	100 *
Bandages, 1" x 3", Adhesive Plastic, 40 ct.				•	**65DG12**	1
Bandages, 1 in x 3 in, Fabric	•	•	•		**6TEW6**	100
Bandages, 2 in x 4 in, Plastic			•		**36LF41**	25 *
Bandages, 2" x 4", Fabric	•	•			**39N871**	6
Bandages, 1 ⅜ in x 2 in, Fingertip, Heavy Woven Fabric	•				**39N887**	10
Bandages, Assorted, Fabric		•			**41CP96**	50
Elastic Bandage, 4 in x 5 yd		•	•		**39P003**	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	•	**39N977**	1 *
Compress, 5 in x 9 in		•	•		**39N981**	1 *
Gauze Pads, 2" x 2"			•		**39N954**	6
Conforming Gauze Roll, 2"				•	**3WHR9**	1 *
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.	•	•			**480F99**	1
Knuckle, 1 ½ in x 3 in, Fabric	•				**39N883**	8 *
Sterile Gauze Pads, 3" x 3"	•				**39N958**	4 *
Sterile Gauze Pads, 3 in x 3 in		•		•	**39N959**	10 *
Sterile Gauze Pads, 4" x 4"		•			**39N963**	10 *
Gauze Wrap, 4"			•		**2TUW1**	12 *
Gauze Rolls, 2 in x 4 yd, 10 ct.			•		**40JH61**	1
Sterile Eye Pads (4), 2 ¾ in x 1 ¾ in, Adhesive Strips (4 Sets)	•	•		•	**31DJ93**	1 *
Non-Stick Pads, 3 in x 4 in			•		**40JH83**	50
Trauma Pad, 5" x 9"	•	•	•	•	**32LA69**	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag		•			**39P037**	100
First Aid Tape, ½ in x 5 yd	•	•		•	**36LF70**	1 *
Pain Relief and Antiseptics						
Alcohol Wipes, 2 ¼ in x 1 ⅛ in		•	•		**36LF43**	100 *
BZK Antiseptic Towelettes	•				**39N904**	10 *
BZK Wipe, 4 ¾ in x 7 ¾ in				•	**36LF44**	50
PVP Wipes, 1 ¼ in x 2 ½ in			•		**41CR22**	1 *
Hand Sanitizer Packets, 0.9 g, 10 ct.	•	•		•	**48ZV46**	10
Hand Sanitizer, 4 oz			•		**41CR68**	1
Antiseptic Spray, 4 oz.	•	•	•		**39N925**	1
Burn Spray, 4 oz.		•	•		**39N921**	1
Burn Cream, 0.9g	•	•		•	**41CP92**	1
Personal Eye Wash Bottle, 1 oz.				•	**40JH48**	12
Buffered Eye Wash, 4 oz.		•	•		**36N055**	1
Eye Wash, 1 oz. with 2 Eye Pads and Strips			•		**49H429**	1 *
Aspirin, 325mg, 25 Packets of 2	•				**480G03**	1
Nonaspirin Tablets, 500mg, 25 Packets of 2	•				**39N841**	25
Nonaspirin Tablets, 500mg, 50 Packets of 2		•			**39N842**	50
Ibuprofen, 200mg, 125 Packs of 2			•		**3NNW7**	250
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2		•			**39N853**	50
Triple Antibiotic Ointment, 0.5g	•	•	•	•	**3VAN2**	25
Burn Dressing, 4" x 4"				•	**45JE50**	1
Burn Dressing, 4" x 4"	•	•			**39N950**	1 *
Water Jel Burn Dressing, 4" x 16"		•		•	**39N987**	1
Instant Cold Pack			•		**36LF66**	1 *
Cold Pack, 4" x 5"	•				**39P018**	1 *
Cold Pack, 4" x 5"				•	**45JE51**	1
Additional Items						
Ammonia Inhalant Wipes, 0.35 oz			•		**482W96**	12
CPR Faceshield with One-Way Valve	•	•	•	•	**39P013**	1
First Aid Guide	•	•		•	**40JJ14**	1
First Aid Guide			•		**11A320**	1
Disposable Gloves, 2 Pr.		•			**482W85**	4
Exam Gloves, Nitrile, 2 Pr.	•		•	•	**39P031**	2
Rolled Splint, 4" x 24"				•	**65DG05**	1
Bandage Scissors, Angled, 3½"L	•	•	•	•	**39P041**	1
Tourniquet, ⅝" x 4", Rubber	•	•	•	•	**39P055**	1
Forceps, Plastic	•	•	•		**39P045**	1

*** Meet ANSI Z308.1 Standard***

488G62

Class B First Aid Kits

Kits come equipped with supplies to deal with injuries encountered in complex or high-risk environments.

First Aid ANSI Kit Type	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
Not ANSI Compliant	75	330	Metal	5.125 in	16 in	11.25 in	**488G61**
I, II	100	516	Metal	5.125 in	16 in	11.25 in	**488G62**
I, II	150	593	Metal	6 in	21.5 in	17 in	**488G63**

Kit Component Description	Components Included with First Aid Kits			Order Refill	Pkg.
	488G61	488G62	488G63	Item No.	Qty.
Bandages, Dressings, and Tape					
Bandages, ¾" x 3", Adhesive Plastic			•	**39N861**	16
Bandages, 1" x 3", Adhesive Plastic, 40 ct.	•			**65DG12**	1
Bandages, 1" x 3", Adhesive Plastic		•		**39N859**	60
Bandages, 1 in x 3 in, Plastic		•	•	**36LF30**	100
Bandages, Knuckle, 3 ¼ in x 3 ½ in, Fabric	•	•	•	**36LF31**	40
Bandages, Fingertip, 1¾" x 2", Fabric	•	•	•	**36LF32**	40
Bandage, Self-Adhearing, 3" x 5 yd.			•	**39P007**	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	**39N977**	1
Trauma Pad, 5" x 9"	•	•	•	**32LA69**	1
Sterile Eye Pads (4), 2 ¾ in x 1 ¾ in, Adhesive Strips (4 Sets)		•	•	**31DJ93**	1
Sterile Gauze Pads, 3" x 3"	•			**39N958**	4
Sterile Gauze Pads, 3 in x 3 in	•	•		**39N959**	10
Sterile Gauze Pads, 3" x 3"		•	•	**39N966**	10
Gauze Pads, 3" x 3"			•	**36LF48**	20
Sterile Gauze Roll, 4" x 4 yd.			•	**39N985**	1
Gauze Roll, 4" x 4 yd.	•	•		**480G02**	1
Conforming Gauze Rolls, 2" x 5 yd., 2 ct.	•	•	•	**480F99**	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag	•	•	•	**39P037**	100
Triple Cut First Aid Tape, 2" x 5 yd.			•	**65DG45**	1
First Aid Tape, ½ in x 5 yd	•	•		**36LF70**	1
Pain Relief and Antiseptics					
BZK Wipe, 4 ¾ in x 7 ¾ in		•	•	**36LF44**	50
Hand Sanitizer Packets, 0.9 g, 10 ct.	•	•	•	**48ZV46**	10
Antiseptic Spray, 4 oz.	•	•	•	**39N925**	1
Burn Gel Packets	•		•	**36LF38**	25
Burn Spray, 4 oz.	•	•	•	**39N921**	1
Buffered Eye Wash, 4 oz.	•	•	•	**36N055**	1
Aspirin, 325mg, 25 Packets of 2		•	•	**480G03**	1
Nonaspirin Tablets, 500mg, 25 Packets of 2	•		•	**39N841**	25
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2	•	•	•	**39N853**	50
Triple Antibiotic Ointment, 0.5g	•	•	•	**3VAN2**	25
Burn Dressing, 4" x 4"	•	•	•	**39N950**	1
Cold Pack, 4" x 5"	•			**39P018**	1
Cold Pack, 4" x 5"			•	**45JE51**	1
Additional Items					
CPR Faceshield			•	**40JJ29**	1
CPR Faceshield with One-Way Valve	•	•		**39P013**	1
First Aid Guide	•		•	**40JJ14**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	**39P031**	2
Rolled Splint, 4" x 24"	•	•	•	**65DG05**	1
EMT Scissors, Straight, 4½"			•	**40JJ40**	1
Bandage Scissors, Angled, 3½"L	•	•		**39P041**	1
Tourniquet, ⅝" x 4", Rubber	•	•	•	**39P055**	1
Forceps, Plastic	•	•	•	**39P045**	1

39N787

39N794

First Aid Kits

Provide necessary first aid supplies to treat many injuries that may occur on the job.

Description	People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
Emergency Use	10	136	Plastic	10 in	3 in	10 in	**39N787**
General Use	10	142	Plastic	5 in	3 in	8 in	**39N805**
	25	185	Plastic	7.125 in	3.125 in	10.125 in	**39N806**
	25	220	Metal	2.625 in	7.125 in	10 in	**39N794**

Kit Component Description	Components Included with First Aid Kits				Order Refill	Pkg.
	39N787	39N805	39N806	39N794	Item No.	Qty.
Bandages, Dressings, and Tapes						
Bandages, 2" x 4", Fabric		•			**39N871**	6
Bandages, 1 ⅜ in x 2 in, Fingertip, Heavy Woven Fabric	•	•	•	•	**39N887**	10
Knuckle, 1 ½ in x 3 in, Fabric	•		•	•	**39N883**	8
Gauze Pads, 2" x 2"	•	•	•		**39N954**	6
Sterile Gauze Pads, 3" x 3"	•	•		•	**39N958**	4
Sterile Gauze Pads, 4" x 4"		•		•	**39N962**	2
Gauze Roll, 2" x 4 yd., Sterile	•	•	•	•	**39N983**	1
Sterile Gauze Roll, 4" x 4 yd.	•	•			**39N985**	1
Triangular Bandage, 40" x 40" x 56"	•			•	**39N977**	1
First Aid Tape, ½ in x 5 yd				•	**36LF70**	1
Pain Relief and Antiseptics						
Aspirin, 325mg		•	•	•	**3NNV1**	100
Antacid, Calcium Carbonate, 50 Packets of 2	•				**8AY50**	100
Nonaspirin Tablets, 500mg, 50 Packets of 2	•				**39N842**	50
Burn Gel Packets, ⅛ oz.		•			**39N918**	6
BZK Antiseptic Towelettes	•	•	•	•	**39N904**	10
Buffered Eye Wash, 1 oz.	•			•	**36N054**	1
Buffered Eye Wash, 4 oz.			•		**36N055**	1
First Aid/Burn Cream Packets, 0.9g, 12ct	•			•	**39N910**	12
Cold Pack, 4" x 5"		•	•	•	**39P018**	1
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	•	•	**39N914**	12
Additional Items						
Ammonia Inhalant Wipes, 0.35 oz				•	**482W96**	12
First Aid Guide	•	•	•	•	**11A320**	1
Forceps, Plastic	•	•	•	•	**39P045**	1
Exam Gloves, Nitrile, 2 Pr.		•	•	•	**39P031**	2
Bandage Scissors, Angled, 3½"L	•	•	•	•	**39P041**	1
Tongue Depressors, 6"L	•				**39P039**	500

Bulk and Unitized First Aid Kits

Kits contain first aid treatment for common injuries.

Bulk Kits—Nonunitized and contain larger quantities of supplies. Metal Cabinets 39N795, 39N789, and 39N821 include shelves.

Unitized Kits—Kits include packs that hold individually sealed dose units and are color-coded by application; blue for antiseptics, yellow for bandages, red for burn treatment, orange for personal protective equipment, and green for miscellaneous.

39N821

39N817

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
Bulk Kits						
10	71	Plastic	5.875 in	3.625 in	8.75 in	**39N814**
25	140	Plastic	7 in	3 in	10 in	**39N797**
50	214	Plastic	10 in	3 in	10 in	**39N815**
75	397	Plastic	9.5 in	2.75 in	13.5 in	**39N816**
100	487	Metal	5.125 in	16 in	11.125 in	**39N795**
100	970	Metal	16.5 in	5.5 in	13.75 in	**39N789**
150	1,172	Metal	6 in	21.5 in	16.6 in	**39N821**
Unitized Kits						
10	57	Plastic	5 in	3 in	8 in	**39N831**
20	102	Plastic	7 in	3 in	10 in	**39N817**
40	211	Plastic	9.5 in	2.75 in	13.5 in	**39N818**

Kit Component Description	Components Included with First Aid Kits										Order Refill Item No.	Pkg. Qty.
	39N814	39N797	39N815	39N816	39N795	39N789	39N821	39N831	39N817	39N818		
Bandages, Dressings, and Tape												
Bandages, 1 in x 3 in, Plastic	•	•	•	•	•	•	•	•	•	•	**36LF30**	100
Bandages, 1 in x 3 in, Fabric					•						**6TEW6**	100
Bandages, ¾" x 3", Fabric						•	•				**41CP80**	100
Knuckle, 1 ½ in x 3 in, Fabric		•	•	•				•	•	•	**39N883**	8
Combine Pads, 8" x 10", Sterile	•	•	•	•	•			•			**39N971**	1
Gauze Roll, 2" x 4 yd., Sterile	•	•	•	•		•	•			•	**39N983**	1
Pain Relief and Antiseptics												
Aspirin, 325mg, 2/pouch		•									**39N837**	50
Nonaspirin Tablets, 500mg, 50 Packets of 2	•		•	•		•	•	•			**39N842**	50
Ammonia Inhalant Wipes, 0.35 oz		•			•						**482W96**	12
Burn Gel Packets, ⅛ oz.								•			**39N918**	6
Buffered Eye Wash, 1 oz.		•	•	•					•	•	**36N054**	1
Buffered Eye Wash, 4 oz.					•		•				**36N055**	1
Hydrocortisone Cream, 0,9g					•						**39N941**	12
Instant Cold Pack	•	•	•	•	•	•	•	•	•	•	**39P019**	1
PVP Iodine Wipes, 0.9g					•	•	•		•	•	**39N899**	10
Sting Relief Wipes	•	•	•	•	•			•	•	•	**39N932**	10
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	•	•		•	•	•	•	•	**39N914**	12
Additional Items												
First Aid Guide	•	•	•	•	•	•	•	•	•	•	**11A320**	1
First Aid/Burn Cream Packets, 0.9g, 12ct	•	•	•	•	•				•	•	**39N910**	12
Forceps, Plastic	•	•	•	•	•	•	•	•			**39P045**	1
Thermal Blanket, Aluminized					•						**39P025**	1

FIRST AID ONLY.

General Purpose First Aid Kits

Customizable SmartCompliance cabinets are designed to simplify OSHA compliance and restocking. Standardized supply boxes slide easily into place and keep cabinets organized so needed items can quickly be found.

40JH23

40JH18

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
25	112	Metal	12 in	3.125 in	9.5 in	**40JH23**
50	206	Plastic	14 in	4.125 in	13 in	**40JH18**
50	260	Plastic	5.25 in	14.5 in	15.5 in	**292MR0**

Kit Component Description	Components Included with First Aid Kits			Order Refill Item No.	Pkg. Qty.
	40JH23	40JH18	292MR0		
Bandages, Dressings, and Tapes					
Bandages, 1" x 3", Fabric	•	•	•	**3WHP9**	25
Bandages, ¾" x 3", Plastic	•	•	•	**3WHR1**	25
Bandages, Fingertip, Fabric		•	•	**3WHR2**	10
Bandages, Knuckle, Fabric		•		**3WHR3**	10
Bandages, 1½" x 1½", Plastic		•	•	**3WHP8**	10
Burn Dressing, 4" x 4"			•	**45JE50**	1
Elastic Wrap Bandage, 2" x 5 yd.		•		**3WHR4**	1
Elastic Wrap Bandage, 3" x 5 yd.			•	**65DG35**	1
Knuckle & Fingertip Bandages, Fabric	•			**3WHR5**	10
Moleskin Squares, 2" x 2"		•		**3WHT5**	10
Moleskin (Blister Prevention), 2" x 2"			•	**65DG29**	20
Butterfly Closures, ⅜" x 1¾"		•		**3WHT2**	10
Triangular Bandages, 40" x 40" x 56"	•	•	•	**3WHT4**	1
Gauze Pads, 2" x 2"		•	•	**3WHU1**	10
Sterile Eye Pads, 3" x 3"	•	•	•	**3WHU2**	10
Eye Wash, 1 oz., 2 Eyepads, First Aid Tape, ½" x 5 yd.			•	**45JE52**	4
Conforming Gauze Roll, 2"	•	•		**3WHR9**	1

Kit Component Description	Components Included with First Aid Kits			Order Refill Item No.	Pkg. Qty.
	40JH23	40JH18	292MR0		
Conforming Gauze Roll, 3"	•	•		**3WHT1**	1
Trauma Pad, 5" x 9"		•		**3WHU3**	1
Trauma Pad, 5" x 9"			•	**48ZE52**	2
First Aid Tape Roll, ½" x 10 yd.	•	•		**3WHT3**	1
First Aid Tape, ½" x 5 yd., Roll Bandage, 2" x 4 yd.			•	**45JE49**	2
Pain Relief and Antiseptics					
Aspirin Tablets, 325mg, 10 Packets of 2			•	**6XNC3**	20
Extra-Strength Nonaspirin Tablets, 500mg, 10 Packets of 2			•	**6XNC4**	20
Ibuprofen Tablets, 200mg, 10 Packets of 2			•	**6XNC5**	20
Alcohol Cleansing Pads		•	•	**3WHR6**	20
Antiseptic Towelettes	•	•	•	**3WHR7**	10
Hand Sanitizer Gel Packets, 0.9g			•	**41CR54**	10
Castile Soap Towelettes		•		**3WHR8**	10
Cold Pack, 4" x 5"			•	**45JE51**	1
First Aid/Burn Cream Packets, 0.9g	•	•	•	**3WHT8**	10
Single Antibiotic Ointment, 0.9g	•	•	•	**3WHT9**	10
Additional Items					
CPR Face Shield Kit w/Vinyl Gloves		•		**3WHT6**	1
CPR Face Shield			•	**65DG28**	1
First Aid Guide			•	**40JJ14**	1
Nitrile Exam Gloves, 2 Pr.	•	•	•	**3WHT7**	4
Scissors			•	**65DG26**	1
Tweezers, Stainless Steel	•	•		**39P044**	1
Tweezers			•	**65DG27**	1

39N784

39N827

Construction Bulk and Unitized First Aid Kits

Kits are designed for contractors' most common injuries on the job.

Bulk—Nonunitized kit contains larger quantities of supplies.

Unitized—Kits include cartons that hold individually sealed dose units and are color-coded by application; blue for antiseptics, yellow for bandages, red for burn treatment, orange for personal protective equipment, and green for miscellaneous.

People Served Per Kit	No. of Components	H	W	D	Item No.
Bulk Kit					
50	204	10 in	3 in	10 in	**39N784**
Unitized Kits					
10	74	5.375 in	2.875 in	7.875 in	**39N827**
20	110	7 in	3 in	10 in	**39N826**
30	163	10 in	3 in	10 in	**39N825**

Kit Component Description	Components Included with First Aid Kits 39N784	39N827	39N826	39N825	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes						
1 in x 3 in, Plastic	•	•	•	•	**39N858**	16
Bandages, 2" x 4", Fabric				•	**39N871**	6
Knuckle, 1 ½ in x 3 in, Fabric				•	**39N883**	8
Bandage Compress, 2" x 4", Sterile				•	**39N978**	4
Bandage Compress, 4" x 8", Sterile		•	•	•	**39N980**	1
Sterile Gauze Pads, 3" x 3"	•		•	•	**39N958**	4
Sterile Gauze Roll, 4" x 4 yd.	•				**39N985**	1
Combine Pads, 8" x 10", Sterile	•				**39N971**	1
Hema-Seal Trauma Dressing, Sterile	•				**39N982**	1
Triangular Bandage, 40" x 40" x 56"	•	•	•	•	**39N977**	1
Adhesive Tape, ½" x 5 yd.	•	•	•	•	**39N993**	2
Pain Relief and Antiseptics						
Nonaspirin Tablets, 500mg, 50 Packets of 2	•				**39N842**	50
Buffered Eye Wash, 1 oz.	•		•	•	**36N054**	1
Cold Pack, 4" x 5"	•	•	•	•	**39P018**	1
Alcohol Wipes		•	•	•	**39N897**	10
BZK Antiseptic Towelettes	•				**39N904**	10
PVP Iodine Wipes, 0.9g		•	•	•	**39N899**	10
Sting Relief Wipes	•			•	**39N932**	10
First Aid/Burn Cream Packets, 0.9g, 12ct	•	•	•	•	**39N910**	12
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•		•		**39N914**	12
Additional Items						
Ammonia Inhalant Wipes, 0.35 oz			•	•	**482W96**	12
First Aid Guide	•	•	•		**11A320**	1
Forceps, Plastic	•	•	•		**39P045**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	•	**39P031**	2
Bandage Scissors, Angled, 3½"L	•				**39P041**	1

463L94

Industrial Bulk First Aid Kits

Provide the proper mix of items to keep you safe, productive, and on-the-job.

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
75	563	Metal	5.125 in	16 in	11.1875 in	**463L94**
150	563	Metal	5.125 in	16 in	11.1875 in	**463M29**
100	404	Metal	5.125 in	16 in	11.25 in	**480F98**

Kit Component Description	Components Included with First Aid Kits 463L94	463M29	480F98	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tape					
Bandages, 1 x 3", Fabric, 50 ct.	•			**41CP82**	50
Bandages, 1" x 3", Fabric		•		**488G91**	100
Bandages, 1 in x 3 in, Plastic	•	•	•	**36LF30**	100
Bandages, 2 in x 4 in, Plastic			•	**36LF41**	25
Bandages, Fingertip, 1¾" x 2", Fabric	•	•	•	**36LF32**	40
Bandages, Knuckle, 3 ¼ in x 3 ½ in, Fabric	•		•	**36LF31**	40
Triangular Bandage, 40" x 40" x 56"	•			**39N977**	1
Triangular Bandage, 40" x 40" x 56"		•	•	**39N975**	1
Elastic Bandage, 4 in x 5 yd			•	**39P003**	1
Sterile Eye Pads, 3" x 3"			•	**3WHU2**	10
Sterile Eye Pads (4), 2 ¾ in x 1 ¾ in, Adhesive Strips (4 Sets)		•	•	**31DJ93**	1
Sterile Gauze Pads, 3" x 3"	•	•		**39N966**	10
Sterile Gauze Pads, 4" x 4"			•	**39N962**	2
Gauze Pads, 2" x 2"			•	**3WHU1**	10
Gauze Pads, 3" x 3"	•	•		**36LF48**	20
Gauze Rolls, 2 in x 4 yd, 10 ct.			•	**40JH61**	1
Gauze Roll, 4" x 4 yd.		•		**480G02**	1
Sterile Multitrauma Dressing, 12" x 30"	•		•	**40JJ12**	50
First Aid Tape, ½ in x 5 yd	•			**36LF70**	1
Triple Cut First Aid Tape, 2" x 5 yd.			•	**65DG45**	1
Cotton Tipped, Wood Handle Applicators, 3"L, Bag	•		•	**39P037**	100
Cotton Tipped, Wood Handle Applicators, 3"L, Vial		•		**39P038**	100
Sterile Nonstick Pads, Adhesive Edges, 3" x 4"	•			**36LF49**	50
Pain Relief and Antiseptics					
BZK Wipe, 4 ¾ in x 7 ¾ in	•			**36LF44**	50
BZK Antiseptic Towelettes		•		**39N904**	10
Alcohol Pads, 50 ct.		•		**463L70**	1
Alcohol Wipes			•	**39N897**	10
Antiseptic Spray, 4 oz.		•	•	**39N925**	1
Burn Cream, 0.9g			•	**41CP92**	1
Burn Gel Packets, ⅛ oz.	•			**39N918**	6
Buffered Eye Wash, 4 oz.	•		•	**36N055**	1
SmartCompliance Refill Eye Wash, 4-oz Bottle		•		**65DG39**	1
Nonaspirin Tablets, 500mg, 50 Packets of 2			•	**39N842**	50
Nonaspirin Tablets, 500mg, 125 Packets of 2		•		**39N843**	125
Ibuprofen Tablets, 200mg, 50 Packets of 2	•			**39N839**	50
Antacid (Calcium Carbonate), 420mg, 50 Packets of 2	•			**39N853**	50
Triple Antibiotic Ointment, 0.5g	•	•	•	**3VAN2**	25
Cold Pack, 4" x 5"	•	•		**39P018**	1
Cold Pack, 4" x 5"			•	**45JE51**	1
Additional Items					
First Aid Guide	•		•	**40JJ14**	1
EMT Scissors, Straight, 4½"	•			**40JJ40**	1
Bandage Scissors, Angled, 3½"L		•	•	**39P041**	1
Exam Gloves, Nitrile, 2 Pr.	•	•	•	**39P031**	2
Forceps, Plastic	•	•	•	**39P045**	1
Blood Clotting Spray, 3 oz. Can		•		**36LF63**	1
Ammonia Inhalant Wipes, 0.35 oz		•		**482W96**	12

39N804

39N788

Vehicle First Aid Kits

Designed for use in vehicles to treat minor injuries.

People Served Per Kit	No. of Components	Case Material	H	W	D	Item No.
5	28	Plastic	3.25 in	8.75 in	4.25 in	**39N804**
10	76	Metal	7 in	3 in	10 in	**39N788**

Kit Component Description	Components Included with First Aid Kits 39N804	39N788	Order Refill Item No.	Pkg. Qty.
Bandages, Dressings, and Tapes				
1 in x 3 in, Plastic		•	**39N858**	16
Bandages, ¾" x 3", Adhesive Plastic	•		**39N861**	16
Bandages, ⅜" x 1½" Junior	•		**39N863**	40
Bandages, Assorted, Fabric		•	**41CP96**	50
Butterfly, Large, ½ in x 2 ¾ in, Plastic	•		**39N865**	16
Combine Pads, 8" x 10", Sterile		•	**39N971**	1
Sterile Gauze Pads, 3" x 3"		•	**39N958**	4
Gauze Roll, 2" x 4 yd., Sterile		•	**39N983**	1
Adhesive Tape, ½" x 5 yd.		•	**39N993**	2
Triangular Bandage, 40" x 40" x 56"		•	**39N977**	1
Pain Relief and Antiseptics				
Aspirin, 325mg, 2/pouch	•		**39N837**	50
Ibuprofen, 200mg, 50 Packs of 2	•		**3NNW6**	100
Nonaspirin Tablets, 500mg, 50 Packets of 2	•	•	**39N842**	50
Cold Pack, 4" x 5"		•	**39P018**	1
Alcohol Wipes	•		**39N897**	10
BZK Antiseptic Towelettes	•	•	**39N904**	10
First Aid/Burn Cream Packets, 0.9g, 12ct		•	**39N910**	12
Sting Relief Wipes		•	**39N932**	10
Triple Antibiotic Ointment Packets, 0.5g, 12 ct.	•	•	**39N914**	12
Additional Items				
First Aid Guide	•		**11A320**	1
Exam Gloves, Nitrile, 2 Pr.		•	**39P031**	2
Bandage Scissors, Angled, 3½"L		•	**39P041**	1
Thermal Blanket, Aluminized		•	**39P025**	1

8HAL2

31XR13

9A801

LifeSecure Emergency Solutions

Trauma First Aid Response and Emergency Survival Kits

Portable trauma kit 8HAL2 helps provide a rapid response to disasters. Kit includes everything needed to treat traumatic injuries and to transport a patient. Emergency Survival Kits, 31XR13 and 9A801, include key survival supplies for all the basic needs.

No. of Components	Includes	Item No.
Trauma Response Kit		
260	Heavy-Duty Weather-Resistant Bag, Seat and Gear Platform, Flashing LED Wheels, 8-ft. Extendable Flag, 5 Quick-Response First Aid Modules with Extensive First Aid Supplies, Flexible Evacuation Stretcher	8HAL2
Group Emergency Survival Kit		
145	(1) LED Safety Signal, (1) Pair of Leather Palmed Work Gloves, (1) Safety Goggles, (1) Pry Bar, (30) Dust Masks, (1) First Aid Kit, (3) Emergency Blankets, (30) Emergency Drinking Water Pouches (4 oz Each), (5) 2,400 Food Bars (60 Portions), (1) Tarp (1) Cord, (1) Whistle with Lanyard, (1) AM/FM Radio with Extra Batteries, (1) Flashlight with Extra Batteries, (2) 12 hr Light Sticks, (1) Carry-Flat Portable Toilet, (6) Toilet Bags, (6) Deodorizer Packets, (2) Toilet Paper Rolls, (4) Pairs of Vinyl Gloves, (30) Sanitary Towelettes, (2) Hand Sanitizer (4 oz Each), (1) Emergency Instruction Sheet, (1) Clipboard, (1) Writing Table, (2) Pens, (10) Tamper-Evident Breakaway Closure Ties	31XR13
Personal Emergency Survival Kit		
60	(1) Face Mask Respirator, (1) Thermal Blanket, (1) Poncho, (1) Pair of Vinyl Gloves, (2) 20 Hr. Body Warmers, (1) Metal Whistle with Lanyard, (1) AM/FM Radio with Replacement Batteries, (1) Flashlight with Batteries, (2) 12 Hr. Light Sticks, (10) Emergency Water Pouches (4 oz Each), (1) 2,400 Calorie food bar, (1) 30-Piece First Aid Kit, (6) Moist towelettes, (3) Biohazard waste bags, (1) Pair vinyl gloves	9A801

39N820

Snake and Insect Bite Kits

Kits are equipped to provide first aid treatment. 31AR10 can clip on to a belt, pack, or other gear for ready access. Pocket-size 49H370 is unitized to fit into a first aid kit or cabinet.

Individually wrapped Bite and Sting Pads are soaked with a benzocaine/isopropyl alcohol solution to offer temporary relief from the pain and itching of bites, scrapes, stings, and minor burns.

People Served	Includes	Item No.
Snake Bite Kit, Unitized with Plastic Case		
1	Venom Extractor Pump, Tourniquet, Scalpel Blade, (2) Ammonia Inhalants, (2) Adhesive Bandages, (2) Antiseptic Wipes	39N820
Snake Bite Kit, Utitized with Nylon Case		
1	Venom Extractor Pump, Tourniquet, Scalpel Blade, (2) Ammonia Inhalants, (2) Adhesive Bandages, (2) Antiseptic Wipes	31AR10
Splinter and Tick Removal Kit		
1	(1) Plastic Case, Steel Forceps, Magnifying Glass, Tick Identification Card, (2) Resealable Plastic Bags, (5) Chloride Antiseptic Towelettes, (5) 1 in x 3 in Adhesive Bandages	49H370
Bite and Sting Pads		
50	(50) Sting Relief Wipes	41CR13

Empty First Aid Cabinet

Durable metal cabinet provides protection for your first aid supplies. Side-opening with keyhole for wall mounting and a handle for convenient carrying.

No. of Shelves	H	W	D	Item No.
3	16 ½ in	13 ½ in	5 ⅞ in	39N796

FIRST AID ONLY.

First Responder Kit

Contains essential first aid supplies needed to respond to medical emergencies.

No. of Components	Includes	Item No.
113	1 in x 10 yd Waterproof Tape, 12 in x 30 in Multi-Trauma Dressing, 24 in x 24 in Biohazard Bag, 3 ½ in Deluxe Tweezers, 3 in x 10 yd Porous Cloth Athletic Tape Roll, 4 in x 5 in Instant Cold Compress, 52 in x 84 in Emergency Blanket, 6 in Conforming Gauze Roll Bandage, 7 ¼ in Utility Shears, Burn Relief, Eye Wash, First Aid Guide, (10) 2-Pks, (12) Povidone-Iodine Infection Control Wipes, (2) 3 in x 5 yd Latex Free Elastic Bandages, (2) 4 in Conforming Gauze Roll Bandages, (2) 6 in x 9 in Instant Cold Compresses, (2) 8 in x 10 in Trauma Pads, (2) Cpr One-Way Valve Face Shields, (2) Emergency Pressure Dressings, (20) 4 in x 4 in Gauze Dressing Pads, (24) Alcohol Cleansing Pads, (3) 1 in x 3 in Fabric Bandages, (3) 2-Pks, (3) 5 in x 9 in Trauma Pads, (4) 10 inX12 in Ziplock Bags, (4) 36 in Triangular Sling/Bandage, (4) Sterile Eye Pads, (6) 3 in x 3 in Gauze Dressing Pads, (8) Exam Quality Vinyl Gloves, 10 Gallon Capacity, 16/Bx, 4 oz, 4 oz Plastic Squeeze Bottle, 4 Pairs, 8 oz, Latex Free, Plastic Spool, Stainless Steel, with 2 Safety Pins	5DXX8

Soft-Sided Case First Aid Kits

39N832 provides first aid treatment for snake bites, tick and insect bites, sunburns, and skin irritation caused by plants. Includes sturdy fabric case. 39N978 general purpose first aid kit comes in a durable fabric bag with carrying handles but can also be wall mounted.

39N798

People Served	Includes	Item No.
25	(16) 1 inx3 in Plastic Adhesive Strips, (1) Extra Large Flexible Fabric Adhesive Strips, (2) ⅛ oz Burn Gel Foil Packet, (4) Bzk Towelettes, (1) 4.5 in Steel Forceps, (2) 3 inx3 in Gauze Pads, (2) Hand Sanitizer Foil Pack, (2) Hydrocortisone Packets, (2) Ibuprofen Tablets, (2) Lip Balm Packets, (2) Non-Aspirin Tablet, (2) Sting Relief Wipes, (2) Sunscreen Packets, (1) ½ in x 5 yd Adhesive Tape Roll, (2) Tecnu Oak'N'Ivy Packet	39N832
25	(16) 1 inx3 in Adhesive Plastic Bandages, (1) First Aid Guide, (1) 3.5 in Plastic Forceps, (4) Heavy Woven Bandages, (5) Heavy Woven Knuckle Bandages, (1) Scissors, (1) 4 oz Eyewash, (1) Sterile Eye Cup, (4) Sterile Eye Pads, (4) Adhesive Strips, (1) 4 in Elastic Bandage, (1) Cold Pack 4 inx5 in (1) Triangular Bandage, (4) Nitrile Exam Gloves, (30) Alcohol Wipes, (6) First Aid/Burn Cream, (6) Triple Antibiotic Ointment, (1) 5 inx9 in Combine Dressing, (1) ½ in x 5 yd Adhesive Strips, (5) 4 inx4 in Sterile Gauze Pads, (1) Conforming Gauze Roll	39N798

MedSource
USA • Europe • UAE

Emergency Blankets

Soft, warm, durable wool blankets are stitched on all four sides. Dark gray color.

Description	Pkg. Qty.	Item No.
84 in x 54 in, Woolen Blend	12	**30LR80**
66 in x 90 in, Wool	10	**38G255**

STEINER

Fire/First Aid Blanket

- Meets Federal Standard Title 16 CFR Part 1610 for flame-retardant use

Durable blanket can be used to smother flames, drape over injured victims, and cover stretchers and other rescue carriers. Fully serged hems. The blanket stores neatly in the highly visible fluorescent red, vinyl-coated nylon tote pouch. Tote is flame-retardant, weather-resistant, plus resists grease and most acids and chemicals.

Description	Item No.
62 in x 84 in, Wool/ Nylon Blend	4T178

2TUU2

5DXY4

3WHN6

FIRST AID ONLY. American Red Cross

Emergency Preparedness Kits

Contain the fundamental supplies needed to address various emergency situations. All kits are conveniently packaged in a modular design case.

Description	Includes	Brand	Item No.
Backpack Kits			
Personal Safety	(2) Exam Quality Gloves, (5) Adhesive Plastic Bandage, ¾ x 3 in, (3) Adhesive Fabric Bandage, ¾ x 3 in, (5) Junior Adhesive Plastic Bandages, ⅜ x 1½ in, (1) Knuckle Fabric Bandage, (1) Fingertip Fabric Bandage, (2) Bzk Antiseptic Towelettes, (1) Triple Antibiotic Ointment Packs, 0.5g (1) Hand Sanitizer Pack, 0.9g (2) Germicidal Wipes (Kills Germs), (1) Emergency Drinking Water, (1) Emergency Poncho, (2) Hand Warmers, (1) Emergency Blanket, (1) Whistle With Neck Cord, (1) Light Stick, (1) N95 Mask	First Aid Only	**3WHP1**
Personal Emergency	(1) American Red Cross First Aid Guide, (1) Nylon Backpack, (1) Emergency Drinking Water, (1) N95 Mask, (2) Exam Quality Gloves, (2) Germicidal Wipes (Kills Germs), (1) Light Stick, (1) Whistle with Neck Cord, (1) Emergency Poncho, (1) Emergency Blanket, (2) Hand Warmers, (1) Mini First Aid Kit, (5) Adhesive Plastic Bandages, ¾ x 3 in, (3) Adhesive Fabric Bandages, ¾ x 3 in, (5) Junior Adhesive Plastic Bandages, ⅜ x 1½ in, (1) Fingertip Fabric Bandage, (1) Knuckle Fabric Bandage, (2) BZK Antiseptic Towelettes, (1) Triple Antibiotic Ointment Packs, 0.5g	American Red Cross	**2TUU2**
Nylon Case			
Emergency Medical	"Call 9-1-1" Banner, 2 in Conforming Gauze Roll, 5 in x 9 in Trauma Pad, American Red Cross First Aid Guide, Emergency Blanket, Emergency Drinking Water Pouch, Emergency Preparedness Reference Card, Finger Splint, First Aid Tape Roll, Germicidal Wipe, Light Stick, Rain Poncho, Sterile Eye Pad, Whistle, (10) ¾ in x 3 in Adhesive Fabric Bandage, (10) ⅜ in x 1 ½ in Junior Adhesive Bandage, (10) Cotton-Tipped Applicators, (2) 1 ½ in x 1 ½ in Patch Bandages, (2) 2 in x 2 in Moleskin Square, (2) 4 in x 4 in Gauze Dressing Pads, (2) Exam Quality Vinyl Gloves, (2) Fingertip Fabric Bandages, (2) Hand Sanitizer Packs, (2) Hand Warmers, (2) Knuckle Fabric Bandages, (2) Procedural Face Masks, (20) ¾ in x 3 in Adhesive Plastic Bandage, (3) Butterfly Wound Closures, (3) Triple Antibiotic Ointment Packs, (6) 2 in x 2 in Gauze Dressing Pads, (6) Alcohol Cleansing Pads, (6) Bzk Antiseptic Towelettes	American Red Cross	**5DXY4**
Plastic Case			
Personal Protection with CPR Faceshield	(3) Antiseptic Towelettes, (1) Disposable Gown with Full Sleeves, (1) Disposable Bonnet, (2) Disposable Shoe Covers, (1) Eye Shield With Ear Loop Mask, (1) 24 x 24 in Biohazard Bag, (1) 8 x 12 in Clear Plastic Bag, (1) Twist Tie, (2) Pair of Exam Quality Gloves, (1) CPR Pack: (1) CPR One-Way Valve Face Shield, (2) Exam Quality Gloves and (3) Antiseptic Towelettes	First Aid Only	**2TUU1**
Trauma Responder	½ in x 5 yd First Aid Tape Roll, 2 in Conforming Gauze Roll Bandage, (2) 0.9g Hand Sanitizer Pack, (2) 3 in Conforming Gauze Roll Bandage, (4) 1 Pair Exam Quality Vinyl Gloves, (4) 5 in x 9 in Trauma Pad, (6) 4 in x 4 in Gauze Dressing Pad, (6) BZK Antiseptic Towelettes	First Aid Only	**3WHN6**
Burn Responder Pack	(1) Burn Dressing 4 x 16 in, (1) Burn Dressing 4 x 4 in, (1) 1 x 5 yd Adhesive Spool Tape, (1) 4 in Sterile Stretch Gauze, (1) Scissors, (4) Nitrile Exam Gloves, (3) 4 oz Eyewash, (1) First Aid Guide	—	**39N808**
CPR Responder	(2) CPR Latex Free Face Shield, (4) Exam Vinyl Gloves, (4) Bzk Antiseptic Towelettes, (4) Antimicrobial Wipes, (2) Tissue Pack, 15/Pack, (2) 0.9g Hand Sanitizer Pack, (1) 24 in x 24 in Biohazard Bag, (1) Twist Tie	First Aid Only	**3WHN5**
Eye Care Responder	2 in Conforming Gauze Roll, 3 in Conforming Gauze Roll, (2) 4 oz Eye Wash Bottle, (2) 9g Hand Sanitizer Pack, (2) First Aid Tape Roll, (4) Eye Cups, (4) Sterile Eye Pads	First Aid Only	**3WHN9**

Médique® Honeywell NORTH FIRST AID ONLY.

Emergency Response Supplies

Description	Brand	Item No.	Pkg. Qty.
Drinking Water, 125mL	Mayday	**11C664**	1
Drinking Water, 125mL	Mayday	**492T85**	100
Food Ration, 2400 Calorie	First Aid Only	**2WUU9**	1
Water Purification Tablets	Honeywell North	**3PAC4**	50
Mylar® Emergency Blanket, 84 in x 52"	Honeywell	**3PAJ8**	1

11C664

2WUU9

3PAC4

3PAJ8

4EKE9

4EKE3

4EKE6

Wheelchairs

Feature easy-to-clean upholstery and chart pocket.

Weight Cap.	Seat Dim. W	Seat Dim. D	Includes	Color	Item No.
250 lb	19 in	16 in	Permanent, Full Length Arms, Swing Away Detachable Footrests, Nylon Upholstered Seat and Seat Back	Burgundy/Black	**4EKE9**
300 lb	16 in	16 in	Removable Desk Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Navy	**4EKE2**
300 lb	18 in	16 in	Removable Desk Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Black	**4EKE3**
300 lb	18 in	17 in	Removable Desk Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Black	**4EKF2**
350 lb	20 in	18 in	Removable Full Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Navy	**4EKE4**
500 lb	22 in	18 in	Removable Desk Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Navy	**4EKE5**
500 lb	24 in	18 in	Removable Desk Length Arms and Swing Away, Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Navy	**4EKE6**
700 lb	26 in	20 in	Removable Desk Length Arms and Swing Away, Detachable Elevating Leg Rests, Vinyl Upholstered Seat and Seat Back	Silver/Black	**4EKE7**
700 lb	28 in	20 in	Removable Desk Length Arms and Detachable Elevating Leg Rests, Nylon Upholstered Seat and Seat Back	Silver/Black	**4EKE8**

39N783

39P239

Bloodborne Pathogen Kits

Honeywell

Protect user during biohazard cleanup. 39N783 is a unitized kit.

Includes	Brand	Item No.
Unitized BBP Clean Up Kit		
(1) 11" x 16" Unmarked Bag, (1) Scoop/Spatula, (4) Bzk Antiseptic Towelettes, (1) Disinfectant Towelette, (10) Paper Towels, (1) Spill Clean Up Powder, (4) Nitrile Exam Gloves, (2) 24" x 24" Biohazard Bags, (1) Isolation Gown, (1) Eye & Face Shield	—	**39N783**
Disposable BBP Clean Up Kit		
(1) Aromatic Absorbent Bead Pouch, (1) Sanizide Plus Germicidal Wipe, (1) P.A.W.S. Antimicrobial Wipe, (1 pr.) Vinyl Gloves, (1) Plastic Shovel, (1) Absorbent Towel, (1) Red Plastic Bag with Twist Tie, and (1) White Plastic Bag with Twist Tie	Honeywell	**39P248**
Disposable BBP Clean Up Apparel Kits		
(2) BZK Antiseptic Towelettes, (1) Biohazard Bag, (1) CPR Faceshield with One Way Valve, (1) Eye and Faceshield, (1 pr.) Nitrile Exam Gloves, (1) Isolation Gown; Universal Size	—	**39N829**
(2) P.A.W.S. Antimicrobial Wipes, (2 pr.) Vinyl Gloves with Zip Lock Bag, (1) Biohazard Bag with Twist Tie, (1) Facemask with Faceshield and Ear-Loops, (1) Impervious Gown; Universal Size, (1) Pick-Up Scoop with Scraper, (1) Red Z Fluid Control Solidifier; 3oz., (1) 3-Fold Towel, (1) Sanizide Plus Germicidal Wipe and (1) Graphics Card	Honeywell	**39P239**

EAGLE ®

Biohazard Step On Waste Cans

4RF67

- Meet OSHA 29 CFR 1910.1030 for exposure to bloodborne pathogens

Impact-resistant polyethylene cans will not rust or corrode. Foot lever raises lid, which closes automatically after use.

Can Cap.	L	W	H	Item No.
6 gal	16 ½ in	13 ½ in	16 in	**4RF67**
10 gal	22 in	18 in	18 in	**4RF68**
14 gal	22 in	18 in	21 in	**4RF69**

13C638

13C633

Stericycle®

Medical Waste and Sharps Mail-Back Systems

13C642

Medical Waste and Sharps Systems—Include all components required for collection of small quantities of medical waste and sharps containers. Feature prepaid and preaddressed shipping labels and prepaid disposal. Tracking documents are returned for proof of destruction.

Sharps Cabinet and Wall-Mount Bracket—Cabinet provides a secure receptacle for individual needles and sharps. Bracket is an economical way to secure mail-back system to a wall or cabinet.

Description	Includes	Item No.
Medical Waste Mail-Back Systems		
1 gal	Instructions, Return Packaging, Prepaid Postage, and Destruction	**13C636**
5 gal		**13C638**
Medical Waste Mail-Back Systems with Spill Kit		
1 gal	Instructions, Return Packaging, Prepaid Postage, and Destruction, Spill Kit has 1 pair of Goggles, 1 pair Gloves, 1 Facemask, 1 Protective Apron, 2 Disinfectant Wipes, 1 pouch Solidifier, 1 Identification Tag, 1 Red Biohazard Disposable Bag with Closure, 1 Scooper/Scraper and Instructions for Use	**13C639**
5 gal		**13C641**
Sharps Mail-Back Systems		
14 qt	Instructions, Return Packaging, Prepaid Postage, and Destruction	**13C629**
14 qt (5 Pack)		**13C633**
1 gal		**13C630**
1 gal (Twin Pack)		**13C634**
2 gal		**13C631**
2 gal (Twin Pack)		**13C635**
3 gal		**13C632**
Sharps Cabinet		
Use with 14 qt Systems	2 Keys, Mounting Template	**13C642**
Sharps Wall-Mount Mail-Back Bracket		
Use with 14 qt, 1 gal, 2 gal and 3 gal Systems	Lock with 2 Keys	**13C643**

Single Use Tube
48ZE62

Flip Top Lid
3UTE2

Sliding Lid
2TUW7

Counter Balance Lid
8M560

Rotor Lid
2TUW8

Horizontal Drop Lid
3UTE8

Sharps Containers and Brackets

FIRST AID ONLY™ COVIDIEN

Puncture-resistant containers provide safe, cost-effective sharps disposal.

Sharpstar Lid
3UTH3

Hinged Lid
3UTC4

Description	Cap.	Color	Lid Type	L	W	H	Brand	Item No.	Pkg. Qty.
Sharps Containers									
Sharps Container	Single Use Tube	White	—	1 ½ in	1 ½ in	6 in	First Aid Only	**48ZE62**	1
Sharps Container	0.25 gal	Red	Flip Top	2 ½ in	4 ½ in	8 ¾ in	Covidien	**3UTE2**	2
Sharps Container	0.25 gal	Red	Hinged	4 ¼ in	3 ½ in	5 ½ in	Covidien	**3UTE4**	10
Sharps Container	0.25 gal	Red	Sliding	3 ½ in	3 ½ in	6 ½ in	First Aid Only	**2TUW7**	1
Sharps Container	1.25 gal	Clear	Counter Balance	—	4 ¾ in	11 ½ in	Covidien	**8M560**	5
Sharps Container	1.25 gal	Red	Counter Balance	10 ¾ in	4 ¾ in	11 ½ in	Covidien	**9DKV4**	5
Sharps Container	1.25 gal	Red	Rotor	12 ½ in	3 ¾ in	9 ½	First Aid Only	**2TUW8**	1
Sharps Container	2 gal	Red	Horizontal Drop	7 ¼ in	10 ½ in	12 ¾ in	Covidien	**3UTE8**	5
Sharps Container	2 gal	Red	Rotor	—	10 ½ in	10 in	Covidien	**3UTE7**	5
Sharps Container	2 gal	Red	Rotor	7 ¼ in	10 ½ in	10 in	Covidien	**3UTH6**	5
Sharps Container	3 gal	Red	Sharpstar	6 in	13 ¾ in	16 ½ in	Covidien	**3UTH3**	5
Sharps Container	8 gal	Red	Hinged	11 in	15 ½ in	17 ¾ in	Covidien	**3UTE9**	2
Sharps Container	12 gal	Red	Hinged	12 ¾ in	18 ¼ in	18 ¾ in	Covidien	**3UTG4**	2
Chemo Waste and Sharps Container	18 gal	Yellow	Hinged	12 ¾ in	18 ¼ in	26 in	Covidien	**3UTC4**	1
Sharps Container Brackets									
Wall Mount Metal Bracket for 2TUW7		White	—	4 ½ in	3 11⁄16 in	2 ½ in	First Aid Only	**2TUW9**	1
Locking Wall Mount Plastic Bracket for 2TUW8		Beige	—	10 in	6 ⅓ in	5 ½ in	First Aid Only	**2TUX1**	1

1YNR5

4EGN3

ZOLL®

Automatic AEDs

Full-rescue AEDs provide Real CPR Help for rate and depth of chest compressions during CPR. Voice prompts and graphics guide rescuer through Chain of Survival, starting with checking responsiveness and ending with CPR compressions.

AED units with PlusTrac provide a third-party web-based service that ensures AED is properly maintained and has all necessary components. Acts as a resource for employees and ensures compliance with Good Samaritan laws. PlusTrac system includes medical direction with prescription, emergency response plan, dedicated account manager, AED registration/EMS notification, database setup, interactive AED management, e-minders and alert notifications, and interactive reporting console.

PlusTrac1 is a 1-yr. management program, and PlusTrac5 is a 5-yr. management program.

AED Plus Fully Automatic—Fully automatic devices provide audible prompt: "DON'T TOUCH PATIENT," and then begin analysis. Automatically delivers shock if needed. If "NO SHOCK REQUIRED," prompts rescuer to begin CPR.

AED Plus Semiautomatic—Semiautomatic AEDs require medical direction (included with every AED Plus unit). Unit includes 10 batteries and 1 set of CPR-D-padz. Pedi-padz II 1YNR9 (pediatric pads) are sold separately.

AED Pro Semiautomatic—Advanced functionality helps improve a patient's chance of survival. LCD displays ECG while using a 3-lead monitoring cable (4EGN9, sold separately). Manual override for extra flexibility. Real CPR Help feature helps user achieve optimum rate and depth of compression levels. See Thru CPR feature enables professionals to view a patient's underlying ECG rhythm. Batteries sold separately.

Description	Cable Length	H	W	D	Item No.
AED Plus Fully Automatic with Medical Direction, and CPR-D-padz					
Unit	48 in	5.25 in	9.5 in	11.5 in	**49K145**
Unit w/Storage Cabinet	48 in	17.5 in	17.5 in	9 in	**49DR46**
Unit w/PlusTrac1 Program Management	48 in	5.25 in	9.5 in	11.5 in	**49K146**
Unit w/PlusTrac5 Program Management	48 in	5.25 in	9.5 in	11.5 in	**49K147**
AED Plus Semiautomatic with Medical Direction, CPR-D-padz, and Batteries					
Unit	33 ½ in	11.5 in	9.5 in	5.25 in	**1YNR5**
Unit w/Storage Cabinet	33 ½ in	17.5 in	17.5 in	9 in	**49DR45**
Unit w/PlusTrac1 Program Management	33 ½ in	11.5 in	9.5 in	5.25 in	**1YNR6**
Unit w/PlusTrac5 Program Management	33 ½ in	11.5 in	9.5 in	5.25 in	**1YNR7**
AED Pro Semiautomatic with Medical Direction, and CPR-D-padz					
Unit	—	9.5 in	9.2 in	3 in	**4EGN3**
AED Plus and AED Pro Accessories					
CPR-D-padz	33 ½ in	—	—	—	**1YNR8**
Pedi-padz II	31 ½ in	—	—	—	**1YNR9**
AED Plus Accessories					
Soft-Sided Carrying Case	—	9 ½ in	9 in	6"	**4EGP5**
Steel Storage Cabinet w/Alarm	—	17½"	17½"	9"	**4EGP6**
AED Pro Accessories					
Battery Pack	—	—	—	—	**4EGN8**
3-Lead ECG Monitoring Cable	60 in	—	—	—	**4EGN9**

6GJN2

454H96

454J45

FirstVoice® PHYSIO CONTROL SUPPLIER DIVERSITY®

AED Packages

Keep automated external defibrillators (AEDs) available for victims of sudden cardiac arrest.

HeartSine samaritan PAD 350P/450P AEDs—Up to 56% smaller than other AEDs. User-friendly, visual and voice prompts guide rescuer through entire resuscitation process, including CPR. With just an On/Off button or SHOCK button, PAD (public access defibrillator) uses electrode technology. A low energy escalating waveform automatically adjusts for differences in patient impedance. IP56 rated to guard against dust and water. 6GJN2 offers semiautomatic shock delivery and includes cabinet. 6GJN3 transmits automatic shock after analyzing heart rhythm.

LIFEPAK 1000 AED—Designed for professional responders. Large, intuitive screen displays clear, easy-to-read graphics and ECG readings. cprMAX technology minimizes CPR interruptions by allowing compressions to continue during AED charging.

Lucas 3 Chest Compression System—Intended for use as an adjunct to manual CPR when effective manual CPR is not possible. Ideal during patient transport, or extended CPR when fatigue may affect the delivery of successful/consistent compressions, or when EMS personnel are unavailable to perform CPR. Unit delivers consistent, high-quality chest compressions.

Includes	H	W	D	Brand	Item No.
HeartSine samaritan PAD 350P AED Package with Cabinet					
AED with Padpak, Administrator Toolkit with Inspection Tags and Checklist, Policy Templates, State Specific AED Acquirer State Law Compliance Checklist, Fast Response Kit, AED Alarm Cabinet and Full Indemnity, 10 Year Warranty for AED	8 in	7.375 in	1.875 in	First Voice	**6GJN2**
HeartSine samaritan PAD 350P AED Package					
AED with Padpak, Administrator Toolkit with Inspection Tags and Checklist, Policy Templates, State Specific AED Acquirer State Law Compliance Checklist, Fast Response Kit and Full Indemnity	8 in	7.375 in	1.875 in	First Voice	**6GJN3**
HeartSine samaritan PAD 450P AED Package					
AED, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit	8 in	8 in	2 in	Physio Control	**454H52**
LIFEPAK 1000 AED with ECG Monitoring Package					
AED, Adult Electrodes, Battery, Carrying Case, Responder Kit, Inspection Tag, Administrator Tool Kit	3.375 in	9.1875 in	10.875 in	Physio Control	**454H96**
Lucas 3 CPR Assist Chest Compressions Machine Package					
Machine, Battery, Case, Stabilization Strap, Suction cups (2), Wall Charger, Instruction, Operating Manual	22 in	9 ⅜ in	—	Physio Control	**454J45**

38N654

defibtech

Semiautomatic AEDs

Easy-to-use semiautomatic AEDs help any user provide treatment for sudden cardiac arrest. Designed for use as standard equipment, devices have a simple 2-button interface, calm voice prompts, status indicator, and progress lights. 24VL57 Starter Kit includes AED, wall-mount cabinet with alarm, CPR rescue pack, 3-way wall sign, and prescription card. Other defibrillators come complete with adult electrode pads, battery pack, carrying case, and rescue kit with CPR mask, scissors, antiseptic wipe, razor, and nitrile gloves. Include a medical prescription/authorization coupon. See Grainger.com for contents.

Description	Cable Length	H	W	D	Item No.
Lifeline AED Starter Kit					
5-yr. Battery	48 in	19 in	19 in	5 in	**24VL57**
Semiautomatic Lifeline VIEW AEDs					
4 yr Battery	48 in	9.5 in	7.375 in	2.375 in	**38N656**
Semiautomatic Lifeline AED with Rxs					
5 yr Battery	48 in	11.8125 in	8.5 in	2.6875 in	**38N654**
Semiautomatic Lifeline High Capacity AED with Rxs					
7 yr Battery	48 in	11.8125 in	8.5 in	2.6875 in	**38N655**
Accessories					
Adult Electrode Pads, 12"L, Pair	48 in	—	—	—	**38N661**
Lifeline AED 5 yr. Battery Pack	—	—	—	—	**38N657**
Lifeline Lifeline High Capacity AED with Rx Only	48 in	11.8 in	8.5 in	2.7 in	**24VL61**

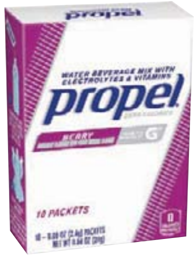
propel

Sports Drinks and Thirst Quenchers

Ready-to-drink options and drink mixes have a blend of electrolytes and carbohydrates to help speed hydration and restore energy. Caffeine-free. Mix concentrate with water per instructions.

▶CHOOSE: Flavor	Yield Per Unit	Brand	Item No.	Pkg. Qty.
Ready-to-Drink				
Fruit Punch, Glacier Freeze, Fierce Grape, Lemon-Lime, Orange, Riptide Rush	20 oz	Gatorade	**E1717**	24
Fruit Punch, Lemon-Lime, Orange—Includes 8 of Each Flavor	20 oz	Gatorade	**48UT85**	24
Cool Blue	20 oz	Gatorade	**36UP97**	24
Ready-to-Drink, Low Calorie				
Fruit Punch, Grape, Glacier Freeze	20 oz	Gatorade	**H3995**	24
Ready-to-Drink, Sugar Free				
Cherry, Glacier Freeze, Lemon-Lime, Orange	20 oz	Gatorade	**K2352**	24
Powder Concentrate Packs				
Fruit Punch, Lemon-Lime, Orange, Riptide Rush	1.0 gal	Gatorade	**E2118**	1
Glacier Freeze, Riptide Rush, Fruit Punch, Lemon-Lime, Orange	2.5 gal	Gatorade	**F8643**	1
Riptide Rush, Fruit Punch, Lemon-Lime, Orange, Glacier Freeze	6.0 gal	Gatorade	**F9129**	1
Frosted Riptide Rush, Fruit Punch, Lemon-Lime, Orange—Includes 8 of Each Flavor	2.5 gal	Gatorade	**40P485**	32
Single-Serve Powder Concentrate Packets, Low Calorie				
Lemon	16 oz	Propel	**403U26**	10
Berry	16 oz	Propel	**403U27**	10
Strawberry Kiwi	16 oz	Propel	**403U28**	10
Liquid Concentrate				
Fierce Grape, Fruit Punch, Orange, Lemon-Lime	6.0 gal	Gatorade	**F8721**	1
Dispenser Rack and Pumps for Liquid Concentrate				
Includes Rack and 2 Pumps	—	Gatorade	**6AV22**	1
Replacement Pump for Liquid Concentrate	—	Gatorade	**3UZY7**	1
Beverage Coolers, Cups and Truck Bracket				
Jug with Flip Top, 1 gal.	—	Gatorade	**3UZX4**	1
Dispenser with Spigot, 3 gal.	—	Gatorade	**3UZX5**	1
Dispenser with Spigot and Cup Dispenser, 5 gal.	—	Gatorade	**3UZX6**	1
Disposable Cone Cups, 6 oz. Each	—	Gatorade	**3UZY1**	200
Cooler Truck Bracket	—	Gatorade	**3UZY4**	1

Ready-to-Drink Lemon-Lime



Single-Serve Powder Concentrate Low Calorie Berry

Liquid Concentrate Fruit Punch

Beverage Dispenser with Spigot (Includes Cup Dispenser)

Sqweeze Freezer Pops

Ready-to-Drink, Sugar Free Fruit Punch

Lite Stik Powder Concentrate Orange

Qwik Stik Powder Concentrate Sugar Free Strawberry Lemonade

Lite Powder Concentrate Grape

Powder Pack Zero Fruit Punch

Liquid Concentrate Mixed Berry

Cooler with Screw Top and Spigot

Sqwincher

Freezer Pops, Sports Drinks and Thirst Quenchers

Designed for healthy electrolyte replacement and to help keep body hydrated. Electrolytes regulate body fluids during workouts and help prevent cramps and fatigue. Ideal for high-heat environments to reduce heat stress related illness. Drinks are available in ready-to-drink/serve or concentrated formula. Mix concentrate with water per instructions.

▶CHOOSE: Flavor	Yield Per Unit	Item No.	Pkg. Qty.
Sqweeze Freezer Pops - Freeze and Eat			
Cherry, Grape, Lemon-Lime, Mixed Berry, Orange	3 oz	**1UFK7**	150
Sqweeze Freezer Pops - Freeze and Eat, Sugar Free			
Dragon Fruit, Fruit Punch, Mixed Berry, Orange, Watermelon	3 oz	**55NV81**	150
Ready-to-Drink			
Strawberry Lemonade, Mixed Berry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime	20 oz	**H1103**	24
Ready-to-Drink, Sugar Free			
Mixed Berry, Orange, Fruit Punch, Grape	20 oz	**D7436**	24
Single-Serve Packets			
EverLyte Powder Concentrate			
Grape, Orange, Fruit Punch, Lemon-Lime	20 oz	**J4675**	8
Qwik Stik Powder Concentrate, Sugar Free			
Fruit Punch, Orange, Strawberry Lemonade, Mixed Berry	20 oz	**G5356**	10
Cool Citrus, Orange, Fruit Punch, Mixed Berry, Lemonade, Strawberry Lemonade, Lemon-Lime, Grape	20 oz	**E1805**	50
Grape, Lemon-Lime, Fruit Punch, Lemonade, Mixed Berry, Orange	10 oz	**E4766**	500
Qwik Stik Lite Powder Concentrate, Sugar Free			
Fruit Punch, Mixed Berry, Orange, Strawberry Lemonade	20 oz	**24A952**	80
QwikServ Powder Concentrate			
Orange, Fruit Punch, Lemon-Lime, Grape	16.9 oz	**G4152**	8

▶CHOOSE: Flavor	Yield Per Unit	Item No.	Pkg. Qty.
Powder Pack Powder Concentrate Packs			
Fruit Punch, Grape, Lemon-Lime, Orange, Fruit Punch, Grape, Lemon-Lime, Orange	1 gal	**E8439**	80
Fruit Punch, Grape, Lemon-Lime, Orange	2.5 gal	**31XH80**	32
Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler, Cherry, Mixed Berry, Tea	2.5 gal	**E9197**	1
Mixed Berry, Cherry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler	5 gal	**E9198**	1
Powder Pack ZERO Powder Concentrate Packs, Sugar Free			
Orange, Fruit Punch, Lemon-Lime, Grape	2.5 gal	**J4676**	8
Liquid Concentrate			
Mixed Berry, Cherry, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Strawberry Lemonade, Lemonade, Tropical Cooler	5 gal	**E8438**	1
Liquid Concentrate Zero, Sugar Free			
Fruit Punch, Grape, Lemon-Lime, Orange, Mixed Berry	5 gal	**E1804**	1
Fast Pack Zero Liquid Concentrate			
Orange, Fruit Punch	6 oz	**E4767**	50
Fast Pack Liquid Concentrate			
Mixed Berry, Cherry, Tea, Cool Citrus, Grape, Orange, Fruit Punch, Lemon-Lime, Lemonade, Tropical Cooler	6 oz	**E8440**	50
Replacement Pump for Liquid Concentrate			
Pump Spout	—	**3VAA9**	1
Beverage Coolers			
Jug with Screw Top and Spigot, Up to 1 Day Ice Retention, 1 gal	—	**48TM35**	12
Cooler with Screw Top and Spigot, 28 hr. cool, 5 gal	—	**40TP41**	1

Bottled Water

Refreshing, purified bottled water helps keep you cool and hydrated. Comes in an eco-air friendly bottle that contains 50% less plastic.

Description	Bottle Size	Case Qty.	Bottle Qty.	Item No.
Pallet of Bottled Water	16.9 oz. per Bottle,	84	2,016	**52WT31**
Full Truckload of Bottled Water	24 Bottles per Case	1,596	38,304	**40ZJ77**

25K814

485V74

Beverage Cups

Description	Material	Cap.	Wrapped/ Unwrapped	Item No.	Pkg. Qty.
Disposable Cone Cup	Paper	4.25 oz	Wrapped	**25K814**	200
				25K815	1000
Disposable Cold Cup	Plastic	5 oz	Unwrapped	**485V74**	2500

6YG04

38D839

5DDA9

Beverage Dispensers

Maintain ice for up to 3 days in temperatures as high as 90°F. Front push-button spigot. Pressure-fit lid. 6YG04 and 3ZC45 have a swing-up handle for easy transport. 38D839 "Drinking Water" imprint meets OSHA labeling requirements. Includes a 4¼ oz. Cone Cup dispenser, spigot, and lid keeper cord. 5DDA9 and 5DDC0 have reinforced side handles and a keeper cord that affixes lid to cooler to prevent loss. All except 6YG04 have a bracket for a cup dispenser (sold separately).

3UYY9

Cap.	Body Color	Exterior Dim. H	Exterior Dim. Dia.	Brand	Item No.
Dispensers					
2.0 gal	Yellow	14 ¾ in	11 ½ in	Igloo	**6YG04**
3.0 gal	Yellow	14 in	13 ½ in	Igloo	**3ZC45**
5.0 gal	Red	20 ⅛ in	12 21/64 in	—	**38D839**
5.0 gal	Yellow	20 11/32 in	13 in	Igloo	**5DDA9**
5.0 gal	Green	20 5/16 in	13 in	Igloo	**3UYY8**
10.0 gal	Yellow	23 ¼ in	15 51/64 in	Igloo	**5DDC0**
10.0 gal	Green	23 ¼ in	15 51/64 in	Igloo	**3UYY9**

Description	Brand	Item No.
Accessories		
Cup Dispenser Holds 4½-oz. Cone Cups	Igloo	**3ZC43**
Cup Dispenser Holds 7 to 8-oz. Cone Cups	Igloo	**4GL74**
Wire Cooler Rack Fits 2-, 3-, and 5-gal. Coolers	—	**4AAN7**
Wire Cooler Rack Fits 2-, 3-, and 5-gal. Coolers	Igloo	**3ZC49**
Wire Cooler Rack Fits 10-gal. Coolers	Igloo	**4GL83**

4AAN7

4AAP9

1HUG6

Personal Coolers

Flip lid on 4AAP8 and 4AAP9 stays attached and serves as a tray. Playmate models offer a top push button for easy, one-handed opening and a molded handle.

Description	Cap.	Body Color	Exterior Dim. L	Exterior Dim. W	Exterior Dim. H	Brand	Item No.
Personal Coolers	4.75 qt.	Red	10 ⅛ in	7 ⅞ in	7 5/16 in	—	**4AAP8**
	11.6 qt.	Red	14 ¼ in	10 5/16 in	8 ⅞ in	—	**4AAP9**
Playmate Personal Coolers	7 qt.	Red	11 ¾ in	8 ¼ in	12 in	Igloo	**1HUG4**
	16 qt.	Red	16 in	10 ¼ in	15 in	Igloo	**1HUG6**

790LN3

3UYY5

60UF79

Beverage Jugs

Swing-up, bail handle for easy carrying. Keep your beverage cold in these durable, dent-resistant coolers. Wide-mouth top, twist-on cap, and flip-top spout make filling and drinking easy.

Cap.	Body Color	Exterior Dim. H	Exterior Dim. Dia.	Brand	Item No.
0.5 gal	Blue	11 3/16 in	6.4 in	Coleman	**790LN3**
0.5 gal	Red	10 ½ in	5 ¾ in	Coleman	**3UYY5**
1 gal	Blue	11 ½ in	7 in	Coleman	**790LN2**
1 gal	Gray	12 11/32 in	7 ¼ in	Igloo	**60UF79**

Chest Coolers

These coolers are insulated to help keep food and drinks cool and protected. Marine Chest Coolers are built to withstand the rigors of freshwater and marine boating environments. They feature plastic construction to prevent corrosion.

COOLERS

Classic—Easy to carry. 4AAP6 has a push-button lock that allows one-handed opening and molded handles in the body. 4AAP7 includes a drain and a lid with cup holders, hatch, and swing-up handles.

Quick & Cool—Threaded drain plug for hose hookup. Dual-snap lock and childproof safety lid latches.

Polar—Ultratherm insulation in body and lid keeps ice frozen. Features reinforced swing-up handles, dual snap-fit latches, and threaded drain plug.

Marine Ultra—Ultratherm insulation in body and lid keeps ice frozen for days. Tie-down loop secures cooler to boat deck. Additional features include swing-up handles, a stain- and odor-resistant liner, and stainless steel corrosion-resistant screws.

15F160 also has a snap-fit latch to secure the lid closed and includes a fish measuring ruler on the lid.

316 Series—Have-A-Seat lid supports up to 250 lb and swing up side handles offer easy lifting. Stain-resistant liner and rust-resistant hardware.

Elite—Rugged coolers have 2" thick polyurethane insulation. Features freezer-grade gaskets, molded-in and press and pull latches, molded-in tie-downs, nonskid and nonmarking raised feet, and corrosion-resistant stainless steel hardware. Have a built-in bottle opener and cup holders. 29PL77, 29PL78 and 29PL80 also offer an integrated fish scale on the ld. Certified bear-resistant by the IGBC.

WHEELED COOLERS

Sunset Glide—Equipped with MaxCold Technology. Offers soft-ride wheels and a horizontal telescoping handle. Glide slide-and-lock horizontal handle technology provides better leverage and reduces the lifting load. Threaded drain plug allows for easy draining of melted ice and option for hose hook-up.

Trailmate—Offer all-terrain, smooth-ride wheels (with non-marking tread), telescoping handle, THERMECOOL insulation, bottle openers, and UV inhibitors.

Elite Wheeled—Heavy duty wheeled version of the Elite series coolers also offer a sloped drain and a tethered, threaded plug (garden hose attachable).

Classic, 60 Qt
4AAP7

Quick & Cool, 150 Qt
1NZ54

Polar, 120 Qt
52PF35

Marine Ultra, 72 Qt
15F160

316 Series, 52 Qt
787L75

Elite, 150 Qt
29PL80

Sunset Glide Wheeled, 110 Qt
60FG53

Trailmate Wheeled, 70 Qt
788UV8

Description	Cap.	Ice Retention	No. of Cans	Body Color	Lid Color	Exterior Dim. L	Exterior Dim. W	Exterior Dim. H	Brand	Item No.
Chest Coolers										
Classic	32 qt	Up to 1 day	—	Red	White	20 5⁄16 in	10 ½ in	13 ⅜ in	—	**4AAP6**
Classic	60 qt	Up to 2 days	—	Red	White	24 ⅛ in	15 ¾ in	16 ⅛ in	—	**4AAP7**
Quick & Cool	150 qt	Up to 2 days	248	White	White	41 ⅝ in	18 ⅞ in	20 ¼ in	Igloo	**1NZ54**
Polar	120 qt	Up to 5 days	188	White	White	38 11⁄16 in	18 ⅛ in	18 ½ in	Igloo	**52PF35**
Marine Chest Coolers										
Marine Ultra	36 qt	Up to 2 days	56	White	White	24 ¼ in	13 ½ in	13 in	Igloo	**15F157**
Marine Ultra	72 qt	Up to 2 days	114	White	White	29 ½ in	16 ½ in	16 ⅛ in	Igloo	**15F160**
316 Series	52 qt	Up to 3 days	80	White	White	15 in	16 ¼ in	25 in	Coleman	**787L75**
Elite	50 qt	Up to 10 days	40	White	White	30 in	20 5⁄16 in	20 11⁄32 in	Pelican	**52PF65**
Elite	50 qt	Up to 10 days	40	Tan	Tan	30 in	20 5⁄16 in	20 11⁄32 in	Pelican	**52PF66**
Elite	95 qt	Up to 10 days	85	White	White	39 in	21 in	26 in	Pelican	**29PL77**
Elite	95 qt	Up to 10 days	85	Tan	Tan	39 in	21 in	26 in	Pelican	**29PL78**
Elite	150 qt	Up to 10 days	—	Tan	Tan	46 in	26 in	26 in	Pelican	**29PL80**
Wheeled Chest Cooler										
Sunset Glide	110 qt	Up to 5 days	168	White	White	39 11⁄16 in	18 ⅝ in	19 ¾ in	Igloo	**60FG53**
Wheeled Marine Chest Coolers										
Trailmate	70 qt	Up to 4 days	112	White	White	34 19⁄32 in	19 11⁄16 in	23 ⅝ in	Igloo	**788UV8**
Elite	45 qt	Up to 10 days	36	White	White	29 11⁄16 in	20 in	19 ¼ in	Pelican	**65CZ19**
Elite	76 qt	Up to 10 days	72	Tan	Tan	42 29⁄32 in	20 13⁄16 in	20 5⁄16 in	Pelican	**65CZ21**
Elite	76 qt	Up to 10 days	72	White	White	42 29⁄32 in	20 13⁄16 in	20 5⁄16 in	Pelican	**65CZ22**

Elite Wheeled, 45 Qt
65CZ19

493R79

493R87

493R91

1RY39

1RY36

Hydration Packs

CAMELBAK

Each includes a low-profile Mil Spec Antidote reservoir with Quick Link exit port and QL HydroLock bite valve adapter.

HydroBak—Ergonomic, versatile, and economical hydration-only pack for everyday tasks. Features double-ripstop construction, a rear reservoir access flap, and a front zip pocket. Holds enough water for 1-2 hours of activity.

- Front and back panel are 300 Denier polyester fabric

ThermoBak 3L—Quick-release shoulder straps unclip for easy removal and storage inside back panel stash pocket. Double-ripstop construction, external fill to CRUX reservoir, and two-zipper fill cover. Hydration only.

- 500 Denier Cordura fabric

Stealth—Quick-release shoulder harnesses and a hook-and-loop panel for name tags and unit badge. Double-ripstop construction and CRUX reservoir with external fill. Hydration only.

- 500 Denier Cordura fabric

Hi-Viz—High visibility color for worker safety. Tearaway harness helps prevent accidents and convenient stow pocket holds keys and other essentials. External access CRUX Reservoir delivers 25% more water per sip. Hydration only.

BFM—Features low-profile Mountain MOLLE panel on front for secure attachment of accessory pouches. Double-ripstop construction. 4 zippers on main compartment allow for multiple access points to gear plus 7 exterior pockets. Offers multiple drink tube exit ports for routing tube over the shoulder or underan arm. The new Futura harness, which adjusts for individual torso length and plate carrier configurations, stays comfortable on even the longest of operations.

- 500 Denier Cordura fabric

ERGODYNE CHILL-ITS LOW-PROFILE

- 420 Denier nylon (1RY36 and 1RY39)
- 600 Denier water-resistant rip stop polyester (32NC04)

Hydration packs help keep workers hydrated. The insulated pack and tube keep water cool. Each pack includes a zip-up cover, plus the cover on the 100% antimicrobial bite valve keeps out debris and contaminants. Breakaway shoulder straps for extra security. 1RY36 and 32NC04 have 2-tone reflective chevrons for visibility at night.

Description	Cap.	Color	Brand	Mfr. Model	Item No.
HydroBak	50 oz/1.5 L	Black	Camelbak	1737001000	**493R82**
ThermoBak 3L	100 oz/3 L	Black	Camelbak	1683001000	**493R79**
Stealth	85 oz/2.5 L	Black	Camelbak	1746001000	**493R88**
Hi-Viz	85 oz/2.5 L	High Visibility Lime	Camelbak	1736702000	**493R87**
BFM	1700 oz/50 L	Black	Camelbak	1727001000	**493R91**
Chill-Its Low-Profile	70 oz/2 L	Black	Chill-Its By Ergodyne	GB5155	**1RY39**
	70 oz/2 L	High Visibility Lime	Chill-Its By Ergodyne	GB5155HV	**1RY36**
	70 oz/2 L	High Visibility Orange	Chill-Its By Ergodyne	5155HV	**32NC04**

E7354

D9245

D2428

D2429

40LR10

E7357

2KJN7

Cooling Vests

HyperKewl Evaporative Vests—Up to 10 hr. evaporative cooling is activated with 1 to 2 min. in water; squeeze out excess. Front zip closure.

Vests for Inserts—100% cotton zip-front vest has 4 pockets for inserts (sold separately) and hook-and-loop shoulder and side straps to ensure a snug fit.

Feathered Ice Insert 5WYD5 has a pliable powder that conforms to your body when frozen. Phase Change Insert 5WYD6 freezes in refrigerator or ice water. Delivers a constant 58°F temp. up to 3 hr.

Evaporative Cotton Vests—Lightweight vest protects against excessive heat for up to 72 hr. Polymer fabric is activated by soaking in water for 5 to 9 min. Cotton shell has hook-and-loop closures.

Chill-Its Evaporative Nylon Vests—Nylon vests feature evaporative polymer-embedded fabric that activates when soaked in cold water for 2 to 5 min. Quilted nylon V-neck shell with zipper closure and water-repellent liner.

Dry vests can be filled with water for up to 3 days of cooling ability. V-neck with zip closure and mesh side panels to provide additional ventilation and stretch.

Phase Change Vests—Thermal-lined cotton vests zip closed to hold cooling inserts close to the wearer. Reusable inserts (included) are activated by ice water or in refrigerator and stay cold up to 3 hr. Zip-closed cooler bag included.

Vortex Vests—Allow adjustable or continuous cooling through perforated inner lining. Vortex tube forces heat exchange to separate compressed air into cold air streams.

Description	▶CHOOSE: Size	▶CHOOSE: Color	Brand	Item No.
HyperKewl Evaporative Vests	S, M, L, XL, 2XL, 3XL	Tan, Silver, Green, Blue	Techniche	**E7354**
Vests for Inserts	L, XL, 2XL	Blue	Allegro	**D9245**
Feathered Ice Inserts, Pkg. of 4	13" x 6"	White	Allegro	**5WYD5**
Phase Change Inserts, Pkg. of 4	6" x 14"	White	Allegro	**5WYD6**
Evaporative Cotton Vests	L, XL, 2XL	Blue	Allegro	**D2428**
Chill-Its Evaporative Nylon Vests	M, L, XL, 2XL, 3XL	Green	Chill-Its By Ergodyne	**D2429**
Chill-Its Dry Evaporative Vests	M	Green	Chill-Its By Ergodyne	**40LR10**
	L	Green	Chill-Its By Ergodyne	**40LR11**
	XL	Green	Chill-Its By Ergodyne	**40LR12**
	2XL	Green	Chill-Its By Ergodyne	**40LR13**
Phase Change Vests	M/L, L/XL, 2XL	Green	Techniche	**E7358**
	M/L, L/XL, 2XL	Tan, Blue	Techniche	**E7357**
Phase Change Flame-Resistant Vest	L/XL	Navy	Techniche	**45A287**
Phase Change Inserts, Pkg. of 4	—	—	Techniche	**8WP74**
Vortex Vests	M/L	Black	Allegro	**2KJN7**
	XL/2XL	Black	Allegro	**2KJN8**

Bradley

4YF98 and 3NY85
(Sold separately.)

Gravity-Fed Emergency Eyewash Stations

- Meet ANSI Z358.1-2014

Flush eyes for 15 min. using 7 gal. of water. See-through tank for easy visual inspection. Each includes eyewash sign and inspection tag. 3PVH3 has insulated heater jacket that controls water in weather conditions down to -10°C. Waterproof. 9-ft. power cord.

Description	Mfr. Model	Item No.
Eyewash Stations		
Eyewash Station	S19-921	**4YF98**
Heated Eyewash Station with Insulated Heater Jacket	S19-921H	**3PVH3**
Optional Accessories for 4YF98		
Transport and Waste Collection Cart	S19-399	**3NY85**
Heating Jacket Retrofit Kit	S19-921HR	**3NY84**

Guardian

Gravity-Fed Emergency Eyewash Station

- Meets ANSI Z358.1-2014

Self-contained unit holds 16 gal. of eyewash and flushes eyes for 15 min. Includes wall bracket, drain hose, and inspection tag. Eyewash preservative 2LVL5 protects against bacterial growth and impurities.

2LVL4

Description	Mfr. Mod el	Item No.
Eyewash Station	G1540	**2LVL4**
Eyewash Preservative	G1540BA	**2LVL5**

Haws

Gravity-Fed Emergency Eyewash Stations

- Meet ANSI Z358.1

Flush eyes for 15 min. Include wall bracket.

3PVG8

Description	Mfr. Model	Item No.
Eyewash Station, 9.0 gal	7501	**3PVG8**
Eyewash Station, 16.0 gal	7500	**4HRX9**
Eyewash Preservative, 8 oz Bottle, Pkg.of 12	9082-C	**55HF83**

36N059

3ARD6

3PVJ1

Emergency Eyewash Stations and Travel Bag

Physicians CARE

Honeywell

Highly visible stations provide easy access in an emergency. Enclosed models are available online, see Grainger.com. 3PVJ1 Eyewash Personal Travel Bag allows for immediate and continued flushing during transport.

Description	Bottle Size	Brand	Item No.
Single Eyewash Station	16 oz	PhysiciansCare	**36N059**
	32 oz	PhysiciansCare	**36N061**
	16 oz	Honeywell	**3ARD6**
Dual Eyewash Station	(2) 16 oz	PhysiciansCare	**36N060**
	(2) 32 oz	PhysiciansCare	**22FX25**
	(2) 32 oz	Honeywell	**3ARD8**
Replacement Eyewash Bottle for 3ARD6	16 oz	Honeywell	**3ARE2**
Replacement Eyewash Bottle for 3ARD8	32 oz	Honeywell	**3ARE1**
Eyesaline Eyewash Personal Travel Bag	(6) 1 oz, (6) 4 oz	Honeywell	**3PVJ1**
Replacement Eyesaline Eyewash for 3PVJ1	1 oz	Honeywell	**3PVT3**
	4 oz	Honeywell	**3PVT4**

2DEB1

6JD83

6JD87

3PVU3

Honeywell

Emergency Eyewash Stations

FENDALL 2000

- Meets ANSI Z358.1-2014

Compact self-contained 100% sterile unit for facilities tight on space. Requires Saline Cartridge 60KJ87, sold separately.

FENDALL PURE FLOW 1000

- Meets ANSI Z358.1-2014

Self-contained unit requires Saline Cartridge 6JD84, sold separately.

FENDALL PORTA STREAM III, II, AND I

Portable gravity-fed stations.

Fendall Porta Stream III—Features fluid heating system that allows outdoor use in temperatures from 72° to -32°F. Delivers 15 min. of flushing. Includes 180-oz. saline concentrate.

- Meets ANSI Z358.1-2009

Fendall Porta Stream II—Delivers 15 min. of flushing. 3PVP7 includes 180-oz. saline concentrate. 6JD87 requires Saline Concentrate 4GB22, sold separately.

Fendall Porta Stream I—Delivers 6 min. of flushing. 3PVP3 includes 70-oz. saline concentrate. 4GB23 includes 8-oz. water preservative; requires saline solution, sold separately.

FENDALL FLASH FLOOD

Pull-off retainer strap allows 3 min. of flushing. Includes Saline Solution 3PVU4.

Description	Mfr. Model	Item No.
Fendall 2000; Eyesaline		
Eyewash Station	32-002000-0000	**2DEB1**
Sterile Saline Cartridge	32-002050-0000	**60KJ87**
Fendall Pure Flow 1000; Eyesaline		
Eyewash Station	32-001000-0000	**6JD83**
Standard Saline Cartridges, Pkg. of 2	32-001050-0000	**6JD84**
Fendall Porta Stream III; Eyesaline		
Heated Eyewash Station with Insulated Heat Jacket and 180-oz. Saline	32-000310-0000	**4LNF8**
Fendall Porta Stream II; Eyesaline		
Eyewash Station with 180-oz. Saline	32-000200-0000	**3PVP7**
Eyewash Station with 8-oz. Water Additive	32-000230-0000	**6JD87**
Fendall Porta Stream I; Eyesaline		
Eyewash Station with 70-oz. Saline	32-000100-0000	**3PVP3**
Eyewash Station with 8-oz. Water Additive	32-000130-0000	**4GB23**
Fendall Porta Stream; Eyesaline Accessories		
Saline, 70-oz. for Porta Stream I	32-000509-0000-H5	**3PVU6**
Saline Concentrate, 180-oz., for Porta Stream I and II	32-000513-0000	**4GB22**
Water Additive, 8-oz.	32-001100-0000	**6JD86**
Pull-Strap for Porta Stream I, II, and III	32-000102-0000	**3PVP1**
Eyewash Station Dust Cover for Porta Stream I, II, and III	32-000522-0000	**300R63**
Insulated Heat Jacket for Porta Stream III	32-000530-0000	**3PVR1**
Fendall Flash Flood; Eyesaline		
Eyewash Station	32-000400-0000	**3PVU3**
Wall Rack	32-000402-0000	**3PVP9**
Saline Cartridge	32-000401-0000	**3PVU4**
Accessories		
Universal Mobile Cart	32-001060-0000	**6JD85**
Universal Eyewash Stand	32-001065-0000	**1FYU2**
Disposal Cart for Porta Stream Models and Flash Flood	32-000511-0000	**4GB24**
Premix Eyewash Solution, 1 gal.	32-000502-0000	**3PVU5**

4T004

Bradley

Pressurized Portable Emergency Eyewash Stations

- Meet ANSI Z358.1; 4T003 meets as supplementary eyewash only

Standard—8-ft. drench hose with handheld squeeze valve. Stainless steel push handle activates 2 eyewash heads to rinse face and body.

Heated—Stations include 2 eyewash heads and feature insulated heater jacket that controls water in weather conditions down to -10°C.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
Standard				
5.0 gal Tank	14 lb	43 lb	S19-672	**4T003**
10.0 gal Tank	23 lb	90 lb	S19-690	**4T004**
15.0 gal Tank	28 lb	128 lb	S19-788	**4R983**
Heated				
10.0 gal Tank	32 lb	95 lb	S19-690H	**3KNU8**
15.0 gal Tank	37 lb	112 lb	S19-788H	**9F558**

2LVE1

Guardian

Emergency Faucet-Mount Eyewashes

- Meet ANSI Z358.1-2014, except 2LVE7

Convert any faucet into an emergency eyewash station. Push/pull knob activates wash. ANSI compliant as personal/supplemental eyewashes only, not as a primary eyewash.

Description	Mfr. Model	Item No.
Mounted 3" Apart	G1100	**2LVE1**
Mounted 3" Apart w/Shut-Off Valve	G1200	**2LVE5**
Mounted 5" Apart	G1101	**2LVE3**
Mounted 5" Apart w/Shut-Off Valve	G1201	**2LVE7**

9XD46

38NJ18

Guardian

Pressurized Portable Emergency Eyewash Stations

- Meet ANSI Z358.1-2014

Eyewash units have 2 spray outlet heads with flip-top dust covers, internal flow control, and filter. 6-ft. PVC drench hose features chrome-plated brass squeeze valve with stainless steel lever handle. Stainless steel pressure tanks have built-in carrying handles. Include ANSI-compliant identification sign and inspection tag. 38NJ18 features an orange insulation jacket to endure sustained low or freezing temperatures over long periods of time. Silicone drum heater is attached to the tank with a spring latch.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
Eyewash Station				
15.0 gal Tank	36.5 lb	118.9 lb	G1562	**9XD46**
Heated Eyewash Station				
15.0 gal Tank	42 lb	125 lb	G1562HTR	**38NJ18**

Bradley

Emergency Faucet-Mount Eyewash

- Meets ANSI Z358.1-2009

Install on existing standard or gooseneck faucets. Includes identification sign and inspection tag. ANSI compliant as a personal/supplemental eyewash only, not as a primary eyewash.

Description	Mfr. Model	Item No.
Includes 1-Step Diverter	S19-200B	**4YF94**

16D372

Haws

Pressurized Portable Emergency Eyewash Stations

- Meet ANSI Z358.1

Eyewash tanks have 2 ABS plastic antisurge heads with integral flow controls. Drench hose included with 16D372 features chrome-plated brass stay-open squeeze valve. Stainless steel tanks help provide corrosion resistance.

Description	Wt. Empty	Wt. Full	Mfr. Model	Item No.
15.0 gal Tank	47 lb	172 lb	7603	**49UG21**
37.0 gal. Tank with 6-ft. Drench Hose	110 lb	400 lb	7601.37	**16D372**

Haws

Emergency Faucet-Mount Eyewash

- Meets ANSI Z358.1

AXION eyePOD is designed for use on standard faucets; easy to install and activate. Flow pattern helps eliminate contaminants from entering nasal cavity. Thermostatic safety valve eliminates scalding.

Description	Mfr. Model	Item No.
All Stainless Steel Eyewash	7620	**11L739**

Haws

Emergency Deck and Wall-Mount Eye/Face Washes

3RVF7

3RVF6

16D385

- Meet ANSI Z358.1

Feature AXION MSR eye/face wash heads with inverted directional laminar flow to keep contaminants away from nasal cavity. 16D384 and 16D385 include a hose for extended coverage area. 3RVF5 is designed for wheelchair accessibility. All include a universal sign.

Description	Mfr. Model	Item No.
Deck Mount		
Push Handle Eye/Face Wash, Right Hand Mount	7612	**3RVF7**
Push Handle Eye/Face Wash, Left Hand Mount	7612LH	**16D393**
Swing Activated Eye/Face Wash, Right or Left Hand Mount	7611	**3RVF6**
Squeeze Lever Eye/Face Wash	8904	**16D384**
Deck or Wall-Mount		
Swing-Down Activated, Barrier-Free Eye/Face Wash	7610	**3RVF5**
Wall-Mount		
Eye/Face Wash and Body Spray with 12-ft. Recoil Swivel Drench Hose	8905	**16D385**

Condor

Emergency Wall- and Pedestal-Mount Eyewash Stations

49EV46

- Meet ANSI Z358.1-2014

Two spray heads deliver water for rinsing eyes. Each head has a dust cover, flow control, and filter to remove impurities from the water flow. Bowl dia. is 11½". Include ANSI Compliant sign and inspection tag.

Description	Eyewash Bowl Material	Color	Item No.
Wall-Mount			
Twin Head	Stainless Steel	Yellow	**49EV48**
	ABS Plastic	Yellow	**49EV49**
Pedestal-Mount			
Twin Head	Stainless Steel	Yellow	**49EV46**
	Stainless Steel	Green	**49EV54**
	ABS Plastic	Green	**49EV55**

Guardian

Emergency Wall- and Pedestal-Mount Eye/Face Wash Stations

2LVH5

3RVR4

2LVJ8

- Meet ANSI Z358.1-2014

Feature 11½"-dia. bowl with twin spray heads, stay-open ball valve, and flag handle. Spray heads have internal filter and dust cover. Include identification sign and inspection tag. Barrier-Free Station 2LVL7 also meets ANSI 117.1 for wheelchair accessibility.

Description	Eyewash Bowl Material	Mfr. Model	Item No.
Wall-Mount			
Eyewash	ABS Plastic	G1814P	**2LVH5**
	Stainless Steel	G1814	**2LVH6**
Eyewash with Hinged Dust Cover	Stainless Steel	G1814BC	**2LVH7**
Eyewash (All Stainless Steel)	Stainless Steel	G1891	**2LVH8**
Eye/Face Wash	ABS Plastic	G1750P	**2LVJ3**
	Stainless Steel	G1750	**2LVJ4**
Wide Area Eye/Face Wash	ABS Plastic	G1724P	**3RVR5**
	Stainless Steel	G1724	**3RVR4**
Eye/Face Wash with Hinged Dust Cover	Stainless Steel	G1750BC	**2LVJ5**
Pedestal-Mount			
Eyewash	ABS Plastic	G1825P	**2LVH9**
	Stainless Steel	G1825	**2LVJ1**
Eyewash with Hinged Dust Cover	Stainless Steel	G1825BC	**2LVJ2**
Eye/Face Wash	ABS Plastic	G1760P	**2LVJ6**
	Stainless Steel	G1760	**2LVJ7**
Eye/Face Wash with Hinged Dust Cover	Stainless Steel	G1760BC	**2LVJ8**
Barrier-Free Station			
Wide Area Eye/Face Wash	Stainless Steel	GBF1724	**2LVL7**

Haws

Emergency Wall- and Pedestal-Mount Eye/Face Wash Stations

16D387

- Meet ANSI Z358.1

AXION MSR stations include 11" bowl, except 16D370. The eye/face wash head has inverted directional laminar flow to help keep contaminants away from nasal cavity. Feature a stay-open ball valve with stainless steel ball and stem. Eye/face wash head includes plastic pop-off dust cover, except on 16D398 and 16D374. All except 16D370 include a mesh water strainer. Barrier-Free Station 16D388 is ADA Compliant for wheelchair accessibility.

Description	Eyewash Bowl Material	Mfr. Model	Item No.
Wall-Mount			
Eye/Face Wash	ABS Plastic	7260B-7270B	**4HRW5**
	Stainless Steel	7360B-7460B	**4HRW7**
Eye/Face Wash without Bowl	No Bowl	7324	**16D370**
Eye/Face Wash with Hinged Dust Cover (All Stainless Steel)	Stainless Steel	7778B	**16D398**
Pedestal-Mount			
Eye/Face Wash	ABS Plastic	7261-7271	**16D387**
	Stainless Steel	7361-7461	**16D389**
Eye/Face Wash with Hinged Dust Cover (All Stainless Steel)	Stainless Steel	7777	**16D374**
Barrier-Free Station			
Eye/Face Wash	Stainless Steel	7360BTWC	**16D388**

Emergency Wall- and Pedestal-Mount Eye/Face Wash Stations

Bradley

- Meet ANSI Z358.1-2014

Models feature stay-open ball valves. Each includes an identification sign and inspection tag.

Halo Models—Exceed ANSI Z358.1 specifications for maximum washdown coverage and spray pattern. Include 13" bowl and all models are barrier-free with ergonomic stainless steel push handles that can be reached from any direction. ADA Compliant.

Classic Models—Designed with 10"-dia. eyewash bowl and PVC push handle.

Description	Eyewash Bowl Material	HALO MODEL Mfr. Model	HALO MODEL Item No.	CLASSIC MODEL Mfr. Model	CLASSIC MODEL Item No.
Wall-Mount					
Eyewash	Plastic	S19224EW	**6DGX7**	S19-220	**2P267**
	Stainless Steel	S19224B	**6DGX9**	S19-220B	**4T009**
Eyewash with Hinged Dust Cover	Plastic	S19224PDC	**6DGX8**	—	—
	Stainless Steel	S19224DC	**6DGY0**	S19-220DC	**4T010**
Eye/Face Wash	Plastic	S19224FW	**6DGY2**	S19-220FW	**4R963**
	Stainless Steel	S19224T	**6DGY4**	S19-220T	**4R965**
Eye/Face Wash with Hinged Dust Cover	Plastic	S19224PDCFW	**6DGY3**	—	—
	Stainless Steel	S19224DCFW	**6DGY1**	—	—
Pedestal-Mount					
Eyewash	Plastic	S19214EW	**6DGY5**	S19-210	**4R961**
	Stainless Steel	S19214B	**6DGY7**	S19-210B	**4R959**
Eyewash with Hinged Dust Cover	Plastic	S19214PDC	**6DGY6**	—	—
	Stainless Steel	S19214DC	**6DGY8**	S19-210DC	**2VYX5**
Eye/Face Wash	Plastic	S19214FW	**6DGZ0**	S19-210FW	**3DUT1**
	Stainless Steel	S19214Y	**6DGZ2**	S19-210Y	**2VYX6**
Eye/Face Wash with Hinged Dust Cover	Plastic	S19214PDCFW	**6DGZ1**	—	—
	Stainless Steel	S19214DCFW	**6DGY9**	—	—

6DGX7

4R961

Bradley

Emergency Drench Showers

4R951

- Meet ANSI Z358.1-2014

Designed to rinse the entire body. Compact showerhead activates with stainless steel triangular pull rod. Identification sign and inspection tag included. Shower Tester 3T955 keeps showers in compliance with ANSI Standards. 3-ply vinyl laminate funnel with weighted bottom. Telescoping handle extends funnel up to 6 ft.

Description	Showerhead Material	Mfr. Model	Item No.
Drench Showers			
Wall Mount	Plastic	S19-120	**2P268**
Wall Mount with Stainless Steel Shroud	Plastic	S19-120A	**4R951**
Ceiling Mount	Plastic	S19-130	**4T007**
Ceiling Mount with Stainless Steel Shroud	Plastic	S19-130A	**4R955**
Emergency Shower Tester			
84"L x 15"W	—	S19-330ST	**3T955**

Guardian

Emergency Drench Showers

2LVH2

- Meet ANSI Z358.1-2014

Designed to rinse off the entire body. Furnished with a showerhead, stainless steel pull rod, and ANSI-Compliant identification sign.

Barrier-Free Drench Shower—Shower pull rod is longer and unit extends out to accommodate people with physical disabilities.

- Meets ANSI 117.1, ADA Compliant

Description	Showerhead Material	Mfr. Model	Item No.
Drench Showers			
Wall Mount	ABS Plastic	G1643	**2LVG8**
	Stainless Steel	G1643SSH	**2LVG9**
Wall Mount (All Stainless Steel)	Stainless Steel	G1691	**2LVH1**
Ceiling Mount	ABS Plastic	G1635	**2LVH2**
	Stainless Steel	G1635SSH	**2LVH3**
Ceiling Mount (All Stainless Steel)	Stainless Steel	G1692	**2LVH4**
Barrier-Free Drench Shower			
Wall Mount	ABS Plastic	GBF1643	**2LVL6**

Condor

Emergency Drench Showers

49EV43

- Meet ANSI Z358.1-2014

Drench showers for wall or ceiling mounting. Feature 10"-dia. shower head and 1" IPS chrome-plated brass stay-open ball valve. Furnished with stainless steel actuating arm and 29" stainless steel pull rod. Include ANSI Compliant sign and inspection tag.

Description	Shower Head Material	Color	Item No.
Wall Mount	ABS Plastic	Yellow	**49EV43**
	ABS Plastic	Green	**49EV51**
Ceiling Mount	ABS Plastic	Yellow	**49EV42**
	ABS Plastic	Green	**49EV50**

Condor

Emergency Combination Drench Shower/Eyewash Stations

49EV44

- Meet ANSI Z358.1-2014

Two spray heads deliver water for rinsing eyes. Each head has a dust cover, flow control, and filter to remove impurities from water. Feature 10"-dia. shower head, 11½" eyewash bowl, and chrome-plated brass stay-open ball valves. Furnished with stainless steel actuating arm and 29" stainless steel pull rod. Include ANSI-Compliant sign and inspection tag.

Showerhead Material	Eye Wash Bowl Material	Color	Item No.
ABS Plastic	ABS Plastic	Yellow	**49EV45**
		Green	**49EV53**
	Stainless Steel	Yellow	**49EV44**
		Green	**49EV52**

Guardian

Emergency Deck and Wall-Mount Eyewashes and Drench Hose/Eyewashes

2LVK5

2LVK6

- Meet ANSI Z358.1-2014

Single- and dual-head units with hose can be removed from holder to use as drench hose. Dual-head units are also fixed eyewashes. All other units are designed for mounting on deck next to sink, except 2LVK4 mounts behind sink. Dual-head models feature stay-open valve handle locking clip. Swing-activated eyewashes swivel out 90° to operational position. All include ANSI Compliant identification sign.

Description	Mfr. Model	Item No.
Deck Mount		
Single Head Drench Hose with 8 ft Reinforced PVC Hose	G5020	**2LVK8**
Dual Head Drench Hose with 8 ft Reinforced PVC Hose	G5022	**2LVK5**
Push Handle Eyewash, Right Hand Mount	G1806	**2LVK2**
Push Handle Eyewash, Left Hand Mount	G1806LH	**2LVK3**
Swing Activated Eyewash, Right Hand Mount	G1805	**2LVJ9**
Swing Activated Eyewash, Left Hand Mount	G1805LH	**2LVK1**
Swing-Down Activated Eyewash, Right Hand Mount	G1849	**2LVK4**
Wall-Mount		
Single Head Drench Hose with 8 ft Reinforced PVC Hose	G5025	**2LVK9**
Dual Head Drench Hose with 8 ft Reinforced PVC Hose	G5026	**2LVK6**
Dual Head Drench Hose with 12 ft Nylon Hose	G5046	**2LVK7**

4R979

4T012

3NY86

Bradley

Emergency Deck and Wall-Mount Eyewashes and Drench Hose/Eyewashes

- Meet ANSI Z358.1-2014

Drench hose/eyewash units feature ABS plastic spray heads; chrome-plated valve stays open. All other eyewashes mount on counter or wall near sink; identification sign and inspection tag included. Swing-activated and swing-down eyewashes provide a precise 20° activation and deactivation angle.

Description	Mfr. Model	Item No.
Deck Mount Drench Hose and Eyewash		
Single Head with 8 ft Hose	S19-460	**5T278**
Twin Head with 8 ft Hose	S19-460EFW	**4R979**
Deck Mount Eyewash		
Push Handle, Right Hand Mount	S19-270B	**4T012**
Push Handle, Left Hand Mount	S19-270BL	**3DUT5**
Swing Activated, Right or Left Hand Mount	S19-270C	**4YF97**
Deck/Wall Mount Eyewash		
Swing Down Activated, Right or Left Hand Mount	S19-270HD	**3NY86**
Deck Mount Eye/Face Wash		
Swing Activated, Right or Left Hand Mount	S19-270E	**3DUT7**
Swing Down Activated, Right or Left Hand Mount	S19-270JD	**3DUT6**
Wall-Mount Drench Hose		
Single Head with 8 ft Hose	S19-430A	**4T014**
Wall-Mount Drench Hose and Eyewash		
Twin Head with 12 ft Hose	S1944011ABC	**4R977**
Twin Head with Push Handle and 12 ft Hose	S1944022ABC	**3DUT8**

Emergency Combination Drench Shower and Eye/Face Wash Stations

- Meet ANSI Z358.1-2014

Feature SpinTec showerheads that provide a more even spray pattern, stay-open ball valves, and identification and inspection tags.

Halo Models—Space-saving design provides maximum wash-down coverage and spray pattern. Designed with an ergonomic stainless steel push handle that can be reached from any direction. Integral strainer reduces debris and reduces clogging.

Classic Models—Include PVC push handles.

Barrier-Free Stations—Shower pull-handle and eyewash bowl extend to accommodate people with physical disabilities.

Halo Heat Trace Stations—Heat Trace cable protects units from freezing temperatures to -50°F. Include shower temperature control thermostat, freeze protection valve, and power indicator light.

Accessory—3-ply vinyl privacy curtain is mildew-resistant and measures 70"L x 145"W.

6DGW4

415Z14

Description	Showerhead Material	Eyewash Bowl Material	HALO MODELS Mfr. Model	HALO MODELS Item No.	CLASSIC MODELS Mfr. Model	CLASSIC MODELS Item No.
Combination Drench Shower/Eyewash Stations						
Eyewash	Plastic	Plastic	S19314EW	**6DGW4**	S19-310	**2P332**
	Plastic	Stainless Steel	S19314SB	**6DGX4**	—	—
	Plastic with Stainless Steel Shroud	Stainless Steel	S19314F	**6DGX0**	—	—
Eyewash and Hinged Dust Cover	Plastic	Plastic	S19314PDC	**6DGW5**	—	—
	Plastic	Stainless Steel	S19314DC	**6DGW8**	S19-310DC	**1FBJ2**
Eyewash and Foot Treadle	Plastic	Stainless Steel	S19314AC	**6DGW6**	S19-310LLGR	**8CT47**
	Plastic with Stainless Steel Shroud	Stainless Steel	S19314UU	**6DGX6**	S19-310UU	**4T008**
Combination Drench Shower/Eye/Face Wash Stations						
Eye/Face Wash	Plastic	Plastic	S19314FW	**6DGX1**	S19-310FW	**2VYX4**
	Plastic	Stainless Steel	S19314SBFW	**6DGX5**	S19-310SBFW	**3DUR8**
Eye/Face Wash and Hinged Dust Cover	Plastic	Plastic	S19314PDCFW	**6DGX2**	—	—
	Plastic	Stainless Steel	S19314DCFW	**6DGW9**	—	—
Eye/Face Wash and Drench Hose	Plastic	Plastic	S19314P	**6DGX3**	—	—
Eye/Face Wash and Foot Treadle (All Stainless Steel)	Stainless Steel	Stainless Steel	S19314SS	**29XX02**	—	—
Eye/Face Wash and Foot Treadle	Plastic	Stainless Steel	—	—	S19-310AC	**4R971**
Eye/Face Wash (PVC Construction with Stainless Steel Fittings)	Plastic	Plastic	—	—	S19-310PVC	**4R973**
Barrier-Free Combination Drench Shower/Eye/Face Wash Stations						
Eye/Face Wash and Face Spray Ring	Plastic	Stainless Steel	S19314BF	**6DGW7**	—	—
Eye/Face Wash (All Stainless Steel)	Stainless Steel	Stainless Steel	S19314BFSS	**29XX01**	—	—
Heat Trace Combination Shower and Eye/Face Wash Stations						
SpinTec Showerhead, Top Water Supply with Indicator Lights, 93 ¾ inH	Plastic	Plastic	S19-304D2TL	**415Z14**	—	—
SpinTec Showerhead, Bottom Water Supply with Indicator Lights, 93 ¾ inH	Plastic	Plastic	S19-304D2BL	**415Z15**	—	—
SpinTec Showerhead, Bottom Water Supply, 93 ¾ inH	Plastic	Plastic	S19-304D2B	**415Z16**	—	—

Description	Includes	Mfr. Model	Item No.
Accessory			
Privacy Curtain	Stainless Steel Curtain Rail, Mounting Brackets and Hardware	S19-330	**4T015**

Emergency Combination Drench Shower and Eye/Face Wash Stations

- Meet ANSI Z358.1-2014

Units provide both drench shower and eye/face wash or eyewash. Innovative AXION MSR eye/face wash head uses an inverted directional laminar flow to wash contaminants away from the nasal cavity. Hydrodynamic showerhead design helps maintain equal distribution of water through the entire footprint of flow. Chrome-plated brass stay-open ball valve features stainless steel ball and stem. Self-adhesive high-visibility safety green and bright yellow stripes and a universal sign are included.

Heat Trace Station—Can operate down to -30°F. Features ¾" insulation, ABS jacket, thermostatically controlled 120VAC electric heat cable, and automatic thermal actuator to help prevent freezing. CSA Certified to ANSI Z358.1, Type 4 Electrical.

4HRW9

16D383

Description	Showerhead Material	Eyewash Bowl Material	Mfr. Model	Item No.
Combination Drench Shower/Eyewash Stations				
Eye/Face Wash	Plastic	Plastic	8320-8325	**4HRX1**
	Plastic	Stainless Steel	8300-8309	**4HRW9**
Eye/Face Wash without Bowl	Plastic	No Bowl	8317	**16D383**
Eye/Face Wash (Epoxy Coated Pipe and Fittings)	Plastic	Plastic	8320CRP	**16D406**
Eye/Face Wash (Epoxy Coated PVC Pipe and Stainless Steel Fittings)	Plastic	Plastic	8336	**4HRX6**
Eyewash, Integral Flow Control, Dust Covers, and Thermal Actuator Valve	Plastic	Stainless Steel	8300.158	**16D382**
Eye/Face Wash and Hinged Dust Cover (All Stainless Steel)	Stainless Steel	Stainless Steel	8330	**4HRX4**
Heat Trace Station				
Eye/Face Wash (Top or Bottom Water Supply)	Plastic	No Bowl	8317CTFP	**16D405**

2LVA6

38NJ14

Emergency Combination Drench Shower and Eye/Face Wash Stations

Guardian

- Meet ANSI Z358.1-2014

Stations have combined drench shower and eye/face wash or eyewash and include a 10"-dia. showerhead with stay-open ball valve and stainless steel pull rod. Eye and eye/face washes have 11½"-dia. eyewash bowl and feature twin spray outlet heads, stay-open ball valve, and cast-aluminum flag-type handle. Spray heads have internal filter and dust cover. Include ANSI-Compliant identification sign and inspection tag.

Heat Trace Station—Prevent freezing down to -40°F. Thermostat activates when internal piping temperature falls below 75°F.

Barrier-Free Stations—Shower pull rod and eyewash bowl extend to facilitate use by people with physical disabilities. Meet ANSI 117.1.

Description	Showerhead Material	Eyewash Bowl Material	Mfr. Model	Item No.
Combination Drench Shower/Eyewash Stations				
Shower with Eyewash	Plastic	ABS Plastic	G1902P	**2LVA4**
Shower with Eye/Face Wash	Plastic	ABS Plastic	G1950P	**2LVC3**
Shower with Eyewash	Plastic	Stainless Steel	G1902	**2LVA6**
Shower with Eye/Face Wash	Plastic	Stainless Steel	G1950	**2LVC5**
Shower with Eyewash and Hinged Dust Cover	Plastic	Stainless Steel	G1902BC	**2LVA8**
Shower with Eye/Face Wash and Hinged Dust Cover	Plastic	Stainless Steel	G1950BC	**2LVC9**
Shower with Eyewash	Stainless Steel	Stainless Steel	G1902BC-SSH	**4HRJ9**
Shower with Eyewash (All Stainless Steel)	Stainless Steel	Stainless Steel	G1991	**2LVC1**
Shower with Eye/Face Wash (All Stainless Steel)	Stainless Steel	Stainless Steel	G1996	**2LVD2**
Heat Trace Station				
Shower with Eyewash	ABS	No Bowl	GFR3107	**38NJ14**
Barrier-Free Stations				
Shower with Eye/Face Wash	Plastic	Stainless Steel	GBF1909	**2LVL8**
	Stainless Steel	Stainless Steel	GBF1909SSH	**4HRK1**
Accessories				
Emergency Station Alarm	—	—	AP275-200	**2LVD4**
Hand/Foot Treadle	—	—	AP050-010	**2LVC7**
Drench Hose, 8 ft.	—	—	G5011	**3JMT8**
Privacy Curtain	—	—	AP250-065	**3GUM2**

Guardian

Replacement Parts for Guardian Eyewash Stations

2LVE9

Visit Grainger.com to identify model number(s) required.

Description	Mfr. Model	Item No.
½" IPS Ball Valve with Flag Handle	AP600-101H	**2LVG6**
1" IPS Ball Valve with Actuating Arm	AP600-335H	**2LVG7**
Eyewash Spray Head, ¼ in NPT Inlet, GS	AP470-001	**2LVE9**
Eyewash Spray Head Body, ¼ in NPT Inlet, FS	AP470-021	**2LVF6**
Float-Off Dust Cover	250-046R	**2LVG3**
Foam Filter, 2¼ in O.D., Fine Spray	470-024R	**2LVF8**
Foam Filter, 1 in Dia., GS	470-004R	**2LVF2**
Shower Head, Plastic, Orange	AP450-032ORG-R	**2LVG4**
Shower Head, Stainles Steel	AP450-048	**2LVG5**
Spray/Dust Cover, 2¼ in Dia., FS	AP470-022ORG-R	**2LVG1**
Spray Cover w/ Dust Cover, 1½ in Dia., GS	AP470-002ORG-R	**2LVF4**

3RVJ1

Haws

Replacement Parts for Haws Eye/Face Wash Stations

Visit Grainger.com to identify model number(s) required.

Description	Mfr. Model	Item No.
AXION Eye/Face Wash Head Assembly	SP65	**3RVJ1**
AXION Shower Head, ABS Plastic	SP829	**3PVN8**
Bowl, ABS Plastic, 11" dia.	SP93	**3RVP7**
Bowl, Stainless Steel, 11" dia.	SP90	**8A880**
Dust Cover Assembly for Eyewash Bowl, Stainless Steel	9102	**3RVR3**
Eye/Face Wash Head with Integral Dust Cover, ABS Plastic	SP21FC	**3RVF4**
Eyewash Head, ABS Plastic	SP19	**3RVR1**
In-Line Mesh Strainer	SP509	**3RVP4**
Pull Rod, Stainless Steel	SP200	**3RVH3**
Stay Open Ball Shower Valve, Chrome-Plated Brass, 1"	SP260	**8TNE7**
Stay Open Ball Shower Valve, Stainless Steel, 1"	SP265	**3RVH2**
Stay Open Ball Valve with Push Flag, Chrome-Plated Brass, ½" Inlet x ½" Outlet	SP229	**8UKP5**
Stay Open Ball Valve with Push Flag, Stainless Steel, ½" Inlet x ½" Outlet	SP232	**3RVH5**
Stay Open Ball Valve with Push Flag, Stainless Steel, ½" Inlet x ¼" Outlet	SP228	**9PX07**

9L436

4YF93

3DUT9

LEONARD Bradley Haws

Thermostatic Mixing Valves and Temperature Control Valves

Consult fixture operation and maintenance manual to identify correct mixing and control valve requirements.

Description	Brand	Mfr. Model	Item No.
Thermostatic Mixing Valves			
4 gpm at 30 psi	Leonard Valve	TA-300-LF	**9L436**
7 gpm at 30 psi	Bradley	S19-2000	**4YF93**
12 gpm at 30 psi	Haws	9201EFE	**16D416**
20 gpm at 30 psi	Leonard Valve	TM-800-LF	**8AD43**
26 gpm at 30 psi	Bradley	S19-2100	**4YF95**
31 gpm at 30 psi	Haws	9201E	**16D415**
54 gpm at 30 psi	Bradley	S19-2200	**4YF96**
78 gpm at 30 psi	Haws	9202E	**16D418**
Temperature Control Valves			
Freeze Kit for Eyewash	Bradley	S45-1986	**3DUT9**
Freeze Kit for Drench Shower	Bradley	S45-1987	**3DUU1**
Scald Kit for Eyewash	Bradley	S45-1989	**3DUU2**
Scald Kit for Drench Shower	Bradley	S45-1990	**3DUU3**

1FBE9

1FBE3

Bradley

Replacement Parts for Bradley Drench Showers and Eyewash Stations

Visit Grainger.com to identify model number(s) required.

Description	Mfr. Model	Item No.
Cap Kit	S10-010	**1FBG5**
Cup Strainer, For Plastic Eyewash Bowl	173-025	**1FBF3**
Cup Strainer, For Stainless Steel Eyewash Bowl	173-009	**1FBF5**
Eyewash Dust Cap	107-371	**1FBE8**
Face Wash Dust Cap, 2¼ in x 1 in	S53-063	**1FBE9**
Inspection Tag	204-421	**1FBG4**
Plastic Eyewash Bowl, 10 in Dia.	154-058	**1FBF2**
Plastic Handle	S45-123	**1FBD9**
Plastic Handle w/Ball Valve	S45-122	**1FBE1**
Plastic Showerhead, 10 in Dia.	S24-195	**1FBG1**
Pull Rod 24" Length, For Drench Showers	128-156A	**1FBF8**
Pull Rod 45" Length, For Drench Showers	128-156D	**1FBF9**
Retrofit Dust Cover w/Bowl, Impact Resistant ABS Plastic	S45-1964	**1FBJ3**
Retrofit Dust Cover w/Bowl, Stainless Steel w/Rubber Bumper	S45-2396	**2VYX2**
Stainless Eyewash Bowl, 10 in Dia.	187-053	**1FBF4**
Stainless Showerhead, 10 in Dia.	S24-196	**1FBG2**
Stainless Steel Handle Only	S08-336	**1FBE6**
Stainless Steel Handle with ½ in Brass NPT Stay-Open Ball Valve and Hardware—For SS Hinged Dust Covers Only	S30-072	**1FBE5**
Stainless Steel Handle with ½ in Brass Stay-Open Ball Valve and Hardware	S30-070	**1FBE3**
Stainless Steel Handle with Hardware	S30-071	**1FBE2**
Stainless Steel Handle with Hardware—For SS Hinged Dust Covers Only	S30-087	**1FBE4**
Stay Open Ball Valve ½"	S27-282	**1FBE7**
Stay Open Valve w/Lever, 1 in Dia., For Drench Showers	S30-059	**1FBF6**
Upper Tank Assembly	133-152GR	**1FBG3**

Fire Extinguisher Information

UL FIRE CLASSIFICATIONS

Class A: Common combustibles (wood, paper, cloth, etc.)

Class B: Flammable liquids and gases (gasoline, propane, and solvents)

Class C: Live electrical equipment (computers, fax machines, etc.)

Class D: Combustible metal (magnesium, sodium, potassium, etc.)

Class K: Cooking media (cooking oils and fats)

UL EXTINGUISHER RATINGS

The number indicates the extinguisher's relative power against that class of fire. An extinguisher rated 2A is twice as powerful against common combustible fires as one rated 1A.

Classes C and D do not have a numerical rating.

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Pro "Class ABC" Dry Chemical										
1A:10B:C	2.5 lb	14 ½ in	3 ¼ in	Aluminum	Wall Mount	100 psi	8 to 12 sec	15 ft	PRO 2.5MP	**5T904**
3A:40B:C	5 lb	16 in	4 ½ in	Aluminum	Wall Mount	195 psi	19 to 21 sec	18 ft	PRO5MP	**5T899**
4A:60B:C	10 lb	19 ½ in	5 in	Steel	Wall Mount	195 psi	19 to 21 sec	20 ft	PRO10MP	**4T889**
6A:80B:C	20 lb	21 ½ in	7 in	Steel	Wall Mount	195 psi	19 to 22 sec	20 ft	PRO20MP	**5T903**
Pro Plus "Class ABC" Dry Chemical										
1A:10B:C	2.5 lb	15 in	3 in	Steel	Retention	195 psi	8 to 12 sec	15 ft	PROPLUS2.5	**4XP87**
3A:40B:C	5 lb	15 in	4 ¼ in	Steel	Wall Mount	195 psi	12 to 14 sec	18 ft	PROPLUS5	**4XP88**
4A:80B:C	10 lb	19 ⅛ in	5 ¼ in	Steel	Wall Mount	195 psi	20 to 22 sec	20 ft	PROPLUS10	**4XP89**
6A:120B:C	20 lb	21 ⅗ in	7 ¼ in	Steel	Wall Mount	195 psi	26 to 28 sec	20 ft	PROPLUS 20	**4XP90**
Pro "Class BC" Carbon Dioxide										
5B:C	5 lb	17 in	5 ¼ in	Aluminum	Wall Mount	850 psi	7 to 9 sec	8 ft	PRO5CDM	**5T900**
10B:C	10 lb	19 ⅓ in	6 ⅘ in	Aluminum	Wall Mount	850 psi	8 to 10 sec	8 ft	PRO10CDM	**5T901**
10B:C	15 lb	26 in	6 ⅘ in	Aluminum	Wall Mount	850 psi	12 to 14 sec	8 ft	PRO15CDM	**6T547**
10B:C	20 lb	26 in	8 in	Aluminum	Wall Mount	850 psi	15 to 17 sec	8 ft	PRO20CDM	**6T548**
ProPlus "Class BC" Halotron										
2B:C	2.5 lb	15 in	3 in	Steel	Wall Mount	100 psi	9 sec	10 ft	PROPLUS2.5HM	**4XP81**
5B:C	5 lb	15 ¼ in	4 ¼ in	Steel	Wall Mount	100 psi	9 sec	15 ft	PROPLUS5HM	**4XP82**
ProPlus "Class ABC" Halotron										
1A:10B:C	11 lb	16 in	7 ¼ in	Steel	Wall Mount	125 psi	11 sec	15 ft	PROPLUS11HM	**4XP83**
2A:10B:C	15.5 lb	17 in	7 ¼ in	Steel	Wall Mount	125 psi	14 sec	18 ft	PROPLUS15.5HM	**4XP84**

5T904

4XP88

5T901

Rechargeable Fire Extinguishers

Kidde

Pro and ProPlus Dry Chemical—5-, 10-, and 20-lb. units include hose. ProPlus feature ergonomic, curved steel handle.

Rechargeable Fire Extinguishers

BADGER

ADVANTAGE

Cylinders have aluminum valves, handles, and levers. 2-piece nameplates provide easy-to-read operating instructions. Aluminum models are ideal for marine environments.

STANDARD

Dry chemical fire extinguishers are effective on common fires in most commercial and industrial applications. Feature aluminum valves, handles, and levers, durable O-rings, and heavy-duty stem valves.

EXTRA

All Extra series extinguishers feature chrome-plated brass valves, and stainless steel handles, levers, and pull pins. Include heavy-duty hose and couplings and durable O-rings.

BRIGADE CARTRIDGE-OPERATED

Multipurpose extinguishers for Class A, B, and C fires. 360° swivel discharge nozzle can be easily used by both right- and left-handed users. UL Recognized.

36MA22

36MA27

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Advantage - Dry Chemical										
1A:10B:C	2.5 lb	15 in	3 ¼ in	Aluminum	Wall Mount	100 psi	10 sec	15 ft	ADV-250	**36MA20**
3A:40B:C	5.5 lb	16 ½ in	4 ½ in	Aluminum	Wall Mount	195 psi	14 sec	18 ft	ADV-550	**36MA22**
3A:40B:C	5.5 lb	16 ½ in	4 ½ in	Aluminum	Vehicle	195 psi	14 sec	18 ft	ADV-550	**36MA23**
4A:60B:C	10 lb	20 in	7 ¼ in	Steel	Wall Mount	195 psi	21.1094 sec	20 ft	ADV-10	**36MA24**
Standard - Dry Chemical										
1A:10B:C	2.5 lb	15 in	3 in	Steel	Wall Mount	195 psi	9.5 sec	15 ft	250MB-1	**36MA26**
3A:40B:C	5 lb	15 ¼ in	4 ¼ in	Steel	—	195 psi	14 sec	18 ft	5MB-6H	**36MA27**
3A:40B:C	5 lb	15 ¼ in	4 ¼ in	Steel	Vehicle	195 psi	14 sec	18 ft	5MB-6HB	**36MA28**
4A:80B:C	10 lb	19 in	5 ¼ in	Steel	Wall Mount	195 psi	22 sec	20 ft	10-MB-8H	**36MA29**
6A:120B:C	20 lb	21 13⁄64 in	7 ¼ in	Steel	Wall Mount	195 psi	28 sec	20 ft	20-MB-6H	**36MA30**
Extra										
Multipurpose Dry Chemical										
1A:10B:C	2.5 lb	15 in	3 in	Steel	Vehicle	195 psi	9.5 sec	15 ft	B250M	**36MA15**
3A:40B:C	5 lb	15 ¼ in	4 ¼ in	Steel	Wall Mount	195 psi	14 sec	18 ft	B5M	**36MA16**
3A:40B:C	5 lb	15 ¼ in	4 ¼ in	Steel	Vehicle	195 psi	14 sec	18 ft	B5M-B	**36MA17**
4A:80B:C	10 lb	19 in	5 ¼ in	Steel	Wall Mount	195 psi	22 sec	20 ft	B10M	**36MA18**
6A:120B:C	20 lb	21 13⁄64 in	7 ¼ in	Steel	Wall Mount	195 psi	28 sec	20 ft	B20M	**36MA19**
10B:C	2.75 lb	15 in	3 in	Steel	Wall Mount	195 psi	9 sec	15 ft	B275BC	**36MA31**
40B:C	5.5 lb	15 ¼ in	4 ¼ in	Steel	Wall Mount	195 psi	13.5 sec	18 ft	B5BC	**36MA32**
60B:C	10 lb	19 9⁄64 in	5 ¼ in	Steel	Wall Mount	195 psi	18 sec	20 ft	B10BC-1	**36MA33**
120B:C	20 lb	21 13⁄64 in	7 ¼ in	Steel	Wall Mount	195 psi	29 sec	20 ft	B20BC	**36MA34**
Carbon Dioxide										
5B:C	5 lb	17 in	5 ¼ in	Aluminum	Wall Mount	850 psi	9 sec	8 ft	B5V	**36MA35**
10B:C	10 lb	19 5⁄16 in	6 ⅞ in	Aluminum	Wall Mount	850 psi	10 sec	8 ft	B10V	**36MA36**
10B:C	15 lb	26 in	6 ⅞ in	Aluminum	Wall Mount	850 psi	14 sec	8 ft	B15V	**36MA37**
10B:C	20 lb	26 in	8 in	Aluminum	Wall Mount	850 psi	17 sec	8 ft	B20V	**36MA38**
Halotron 1										
2B:C	2.5 lb	14 29⁄32 in	3 in	Steel	Wall Mount	100 psi	9 sec	10 ft	2.5HB-2	**36MA41**
5B:C	5 lb	15 ¼ in	4 ¼ in	Steel	Wall Mount	100 psi	9 sec	15 ft	5HB-2	**36MA42**
1A:10B:C	11 lb	16 13⁄64 in	7 ¼ in	Steel	Wall Mount	125 psi	11 sec	15 ft	11HB	**36MA43**
2A:10B:C	15.5 lb	17 7⁄64 in	7 ¼ in	Steel	Wall Mount	125 psi	14 sec	18 ft	15.5HB	**36MA44**
Brigade CO2 Cartridge Operated										
2A:40B:C	21 lb	23 39⁄64 in	6 ¼ in	Steel	Wall Mount	240 psi	15 sec	30 ft	B-20-A-HF	**36MA54**
4A:40B:C	10.6563 lb	18 ¼ in	5 ¼ in	Steel	—	195 psi	17 to 20 sec	25 ft	B-10-A	**40H498**
10A:60B:C	20 lb	23 ⅗ in	6 ¼ in	Steel	—	195 psi	20 to 24 sec	30 ft	B-20-A	**40H499**
10A:80B:C	25 lb	23 ⅗ in	7 ⅕ in	Steel	—	195 psi	29 to 35 sec	35 ft	B-30-A	**40H501**
80B:C	20 lb	23 39⁄64 in	6 ¼ in	Steel	Wall Mount	240 psi	20 to 26 sec	30 ft	B-20-PK	**36MA55**
120B:C	28.5 lb	23 39⁄64 in	7 13⁄64 in	Steel	Wall Mount	240 psi	26 to 31 sec	35 ft	B-30-PK	**36MA56**

36MA15

36MA35

36MA42

40H498

31CA36

13J002

35WT09

13J008

44YZ30

35WT15

35WT20

35WT23

Rechargeable Fire Extinguishers

- Meet DOT Requirements

Feature all-metal valves with steel or aluminum cylinders.

High Flow Dry Chemical— Designed to attack flowing liquid and pressurized gas fires. Capable of fast knockdown.

Carbon Dioxide— Residue-free agent for use on Class B and C hazards.

Halotron—Clean agent gas for Class B and C hazards. Halon replacement.

Wet Chemical—Required in commercial kitchens for cooking oil fires.

UL Rating	Cap.	H	Dia.	Cylinder Material	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.	
Dry Chemical — ABC												
1A:10B:C	2.5 lb	14 5⁄16 in	3 1/9 in	Steel, White	Marine	100 psi	8 to 10 sec	12 ft	First Alert	MARINE1	**31CA36**	
1A:10B:C	2.5 lb	14 5⁄16 in	3 1/9 in	Steel, Red	Wall	100 psi		12 ft	First Alert	PRO2-5	**31CA38**	*
1A:10B:C	2.5 lb	15 in	3 3⁄8 in	Steel	Vehicle	100 psi		15 ft	Buckeye	13315	**35WT05**	
1A:10B:C	2.5 lb	15 ½ in	3 in	Steel	Wall or Vehicle/Marine	195 psi	10 sec	15 ft	Amerex	B417T	**3YWN1**	
3A:40B:C	5 lb	15 ¼ in	4 in	Steel		195 psi	14 sec	18 ft	Amerex	B402	**13J002**	
3A:40B:C	5 lb	17 in	4 ¼ in	Steel	Wall	195 psi	13 to 15 sec	18 ft	Buckeye	10914	**35WT06**	
4A:80B:C	10 lb	21 in	5 1⁄8 in	Steel		195 psi	20 to 24 sec	21 ft	Buckeye	11340	**35WT09**	
10A:120B:C	20 lb	22 in	7 ½ in	Steel		195 psi	26 to 29 sec	21 ft	Buckeye	12120	**35WT10**	
Dry Chemical — BC												
5B:C	2 lb	12 5⁄16 in	3 1/9 in	Steel	Wall	100 psi	8 to 10 sec	12 ft	First Alert	REC5	**31CA40**	
10B:C	2.5 lb	15 in	3 3⁄8 in	Steel	Vehicle	100 psi		15 ft	Buckeye	13415	**35WT12**	
10B:C	2.5 lb	15 ½ in	3 in	Steel	Vehicle/Marine	195 psi	10 sec	15 ft	Amerex	B403T	**13J008**	
High Flow Dry Chemical												
1A:20B:C	10 lb	21 in	6 in	Steel	Wall	195 psi	10 sec	40 ft	Buckeye	11350	**44YZ30**	
4A:60B:C	20 lb	21 ¼ in	7 ½ in	Steel		195 psi	18 sec	50 ft	Buckeye	12350	**44YZ31**	
Carbon Dioxide												
5B:C	5 lb	18 in	5 ¼ in	Aluminum	Wall	850 psi	8 to 10 sec	8 ft	Buckeye	45100	**35WT14**	
10B:C	10 lb	20 in	6 89/100 in	Aluminum		850 psi		8 ft	Buckeye	45600	**35WT15**	
10B:C	15 lb	27 in	6 89/100 in	Aluminum		850 psi	13 to 17 sec	8 ft	Buckeye	46100	**35WT16**	
10B:C	20 lb	27 in	8 in	Aluminum		850 psi	18 to 22 sec	8 ft	Buckeye	46600	**35WT17**	
Halotron												
2B:C	2.5 lb	14 in	3 3⁄8 in	Steel	Wall	100 psi	8 to 10 sec	10 ft	Buckeye	70259	**35WT19**	
5B:C	5 lb	17 in	4 ¼ in	Steel		125 psi		15 ft	Buckeye	70510	**35WT20**	
1A:10B:C	11 lb	18 in	7 in	Steel		125 psi		15 ft	Buckeye	71100	**35WT21**	
2A:10B:C	15.5 lb	18 in	7 in	Steel		125 psi	12 to 14 sec	18 ft	Buckeye	71550	**35WT22**	
Wet Chemical												
1A:K	6 L	20 in	7 in	Stainless Steel	Wall	100 psi	52 to 56 sec	8 ft	Buckeye	50006	**35WT23**	
2A:K	12.6875 lb	19 in	7 in	Stainless Steel		100 psi	53 sec	12 ft	Amerex	B260	**13J014**	

** Approved for marine use when mounted with supplied bracket.*

479X05

479W99

479W96

Aluminum Disposable Dry Chemical Fire Extinguishers

- Aluminum cylinder with aluminum valve
- 479W99 and 479X03 include retention strap bracket
- UL Listed

Mariner extinguishers are for regular marine use. Easy-to-read pressure gauge and easy-pull pin. 479W99 is for most common fires. Use 479X03 for liquid and energized electrical fires.

Fire Extinguisher Style	UL Rating	Cap.	H	Dia.	Fire Extinguisher Bracket Type	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.	
Multi-Purpose ABC											
Fire Extinguisher	3A:40B:C	5.5 lb	16 5⁄64 in	4 ½ in	Wall Mount	195 psi	13 to 15 sec	18 ft	XL-5MR	**479X05**	*
Monoammonium Phosphate											
Marine Fire Extinguisher	1A:10B:C	2.5 lb	14 13⁄64 in	3 ¼ in	Marine	100 psi	8 to 12 sec	8 ft	46662720MTL	**479W99**	
Fire Extinguisher	1A:10B:C	2.5 lb	14 13⁄64 in	3 ¼ in	Wall Mount	100 psi	8 to 12 sec	8 ft	46614220MTL	**479W96**	
	3A:40B:C	5.5 lb	16 13⁄16 in	4 ½ in	Wall Mount	195 psi	13 to 15 sec	18 ft	FX340SC	**479X06**	*
Sodium Bicarbonate											
Fire Extinguisher	711A	2.5 lb	14 13⁄64 in	3 ¼ in	Wall Mount	100 psi	8 to 10 sec	5 ft	RESSP	**479W97**	
	5B:C	2 lb	11 in	3 ¼ in	Wall Mount	100 psi	8 to 12 sec	6 ft	21007077MTL	**479W98**	
Marine Fire Extinguisher	5B:C	2 lb	11 5⁄16 in	3 ¼ in	Marine	100 psi	8 to 12 sec	6 ft	M5G	**479X03**	
Fire Extinguisher	10B:C	2.9063 lb	14 13⁄64 in	3 ¼ in	Wall Mount	100 psi	8 to 12 sec	8 ft	FA10G	**479X02**	

** Includes hose.*

3YWG4

13J015

35WT24

Water and Water Mist Fire Extinguishers

Reliable extinguishers all feature a rechargeable stainless steel cylinder. 3YWG4 uses a water stream as the extinguishing agent. 13J015 and 35WT24 use deionized water (sold separately) as the extinguishing agent; a misting nozzle improves cooling and soaking characteristics.

UL Rating	Cap.	H	Dia.	Fire Extinguisher Bracket Type	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.
2A	2.5 gal	24 ½ in	7 in	Wall	55 sec	55 ft	Amerex	240	**3YWG4**
2A:C	12.6875 lb	24 ½ in	7 in	Wall	72 sec	12 ft	Amerex	C270	**13J015**
2A	2.5 gal	25 in	7 in	Wall	48 to 52 sec	55 ft	Buckeye	50000	**35WT24**

Find more information on fire extinguishers on page 1827.

Nonmagnetic Fire Extinguishers

Ideal for use inside and around magnetic resonance imaging (MRI) units and other healthcare facilities.

35WT25

5MDC7

UL Rating	Cap.	H	Dia.	Cylinder Material	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.
Deionized Water									
2A:C	2.5 lb	28 in	7 in	Stainless Steel	71 to 75 sec	10 ft	Buckeye	51000	**35WT25**
Carbon Dioxide									
5B:C	5 lb	17 in	—	Aluminum	9 sec	8 ft	Badger	B5V-1MR	**5MDC7**

8RY81

13J009

Wheeled Fire Extinguishers

- 50-ft. hose (except 8RY81 has 25-ft. and 8UKR9 has 40-ft. hose)
- 16"-dia. semipneumatic tires, (except 13J006 and 13J010 have 36" x 6" steel wheels)

Feature brass fittings and live swivels. Steel cylinders.

Stored Pressure—Can be activated instantly, with agent and pressurized gas stored in the same cylinder.

Direct Pressure—A separate pressurized gas cylinder simplifies recharge.

UL Rating	Cap.	H	W	D	Operating Pressure	Discharge Time	Range Max.	Mfr. Model	Item No.
Stored Pressure									
Carbon Dioxide									
20B:C	50 lb	47 in	23 in	48 in	240 psi	44 sec	20 ft	333	**8UKR9**
Dry Chemical									
20A:160B:C	50 lb	46 in	21.5 in	24 in	240 psi	35 sec	35 ft	495	**8RY81**
40A:240B:C	125 lb	53.5 in	28 in	40 in	240 psi	48 sec	40 ft	488	**8GER7**
Halotron									
4A:60B:C	65 lb	58 in	28 in	39 in	100 psi	22 sec	45 ft	673	**13J012**
10A:80B:C	150 lb	64 in	30 in	42 in	125 psi	38 sec	45 ft	674	**13J013**
Direct Pressure									
Dry Chemical									
40A:240B:C	125 lb	45 in	24 in	36 in	240 psi	52 sec	40 ft	450	**13J005**
30A:320B:C	300 lb	57 in	34 in	39 in	240 psi	60 sec	40 ft	491	**13J006**
Purple K									
320B:C	125 lb	45 in	24 in	36 in	240 psi	53 sec	40 ft	452	**13J009**
320B:C	300 lb	57 in	34 in	39 in	240 psi	67 sec	40 ft	493	**13J010**

FireAde®
Don't fight fires ... extinguish them!™

Foam Fire Extinguishing Sprays

- Range max: 20 ft.

Aerosol can foam instantly cools surfaces. Personal fire suppression system designed for easy application and extinguishment of fire outdoors and around the house. No mess, water-based formula. Effective on Class A and Class B fires. UL Listed.

Cap.	H	Dia.	Discharge Time	Mfr. Model	Item No.
0.625 lb	7 5/8 in	2 1/4 in	8 to 12 sec	10FA2K-6BB	**53PW74**
1 lb	11 13/32 in	2 1/4 in	8 to 12 sec	16FA2K-6PDQ	**53PW75**

53PW74

35WT27

36MA51

35WT30

Wheeled Fire Extinguishers

Extinguishers are designed for easy single-person operation and are small enough to easily pass through standard doorways. Steel cylinders. UL Listed.

Stored Pressure—Economical units roll easily on semipneumatic rubber wheels. Effective on many types of high-risk fires that may occur within commercial and industrial applications.
- 25-ft. hose

Regulated-Cylinder Operated—Excellent for high-risk fire hazards that require consistent flow rates and ranges throughout the entire fire fighting operation. 36MA51 has 16" semipneumatic rubber wheels; 36MA52 has 36" rubber-coated steel wheels.
- 50-ft. hose

Pressure Transfer—Extinguishers have separate extinguishing agent and expellant gas cylinders, allows a spent cylinder to be quickly and easily replaced.
- 50-ft. hose

UL Rating	Cap.	Operating Pressure	Discharge Time	Range Max.	Brand	Mfr. Model	Item No.
Stored Pressure							
Clean Agent							
4A:60B:C	65 lb	150 psi	17 sec	40 ft	Buckeye	76500	**35WT36**
Dry Chemical							
10A:160B:C	50 lb	240 psi	36 sec	35 ft	Buckeye	30010	**35WT27**
20A:160B:C	50 lb	240 psi	36 sec	35 ft	Badger	50MB	**36MA47**
40A:240B:C	125 lb	240 psi	45 sec	40 ft	Badger	150MB	**36MA48**
Purple K							
240B:C	125 lb	240 psi	48 sec	40 ft	Badger	150PB	**36MA50**
Regulated-Cylinder Operated							
Dry Chemical							
40A:240B:C	145 lb	245 psi	43 sec	35 ft	Badger	B150A-1	**36MA51**
30A:240B:C	125 lb	240 psi	44 sec	40 ft	Buckeye	31120	**35WT46**
30A:320B:C	300 lb	240 psi	52 sec	40 ft	Buckeye	32120	**35WT34**
Purple K							
240B:C	125 lb	245 psi	43 sec	35 ft	Badger	B125KL-1	**36MA52**
320B:C	125 lb	240 psi	55 sec	40 ft	Buckeye	31320	**35WT26**
320B:C	300 lb	240 psi	57 sec	40 ft	Buckeye	32320	**35WT32**
Pressure Transfer							
Dry Chemical							
30A:240B:C	125 lb	240 psi	43 sec	40 ft	Buckeye	31110	**35WT29**
30A:320B:C	300 lb	240 psi	53 sec	40 ft	Buckeye	32110	**35WT35**
320B:C	300 lb	240 psi	62 sec	40 ft	Buckeye	32310	**35WT33**
Purple K							
320B:C	125 lb	240 psi	54 sec	40 ft	Buckeye	31310	**35WT30**

Fire Extinguishing Spray and Fire Retardant

Fire Extinguishing Spray—Instantly cools down surfaces that are too hot to work on or around. Sprays into hard-to-reach areas from any position. Meets UL 2N75, NFPA 18, and EPA Standards.

Fire Retardant—Spray on to fabrics, combustible materials, and other Class A surfaces to help inhibit the spread of flames and smoke. Will not stain.

Description	Item No.
Fire Extinguishing Spray, 12 oz. Aerosol Can	**9NKR4**
Fire Retardant, 32-oz. Trigger Spray Bottle	**8AWT0**

9NKR4

Scan. Order. Done.
Details on page A1.

3ZV09

35GX42

35GX45

35GX49

40LU35

6ATL6

404K13

1RK38

40LU23

Fire Extinguisher Cabinets

POTTER ROEMER FIRE PRO · JONESCO · CATO

- Clear window allows visibility

Cabinets accommodate most common sizes of fire extinguishers and provide easy access in an emergency. High-impact, crystal Polystyrene cabinets are dent-proof and cannot rust. Offer UV-resistant cabinet, break panel, and labels.

Description	Cap.	Window Material	H	Cabinet Color	Indoor/ Outdoor	Brand	Item No.
Surface Mount							
Galvanized Steel							
Rectangular with Cam Lock and Break Glass Hammer	2 to 2.6 lb	Acrylic	18 3/16 in	White	Indoor	—	**3ZV09**
	5 lb	Acrylic	22 3/8 in	White	Indoor	—	**3ZV10**
	10 lb	Acrylic	24 3/8 in	White	Indoor	—	**3ZV11**
	20 lb	Acrylic	30 3/8 in	White	Indoor	—	**3ZV12**
Cold-Rolled Steel							
Rectangular with Magnetic Catch Door	5 lb	—	17 15/16 in	Cream	Indoor	—	**35GX42**
	10 lb	—	23 5/8 in	Cream	Indoor	—	**35GX43**
	20 lb	—	25 9/16 in	Cream	Indoor	—	**35GX44**
Trapezoid with Magnetic Catch Door	20 lb	Tempered Glass	25 9/16 in	Cream	Indoor	—	**35GX45**
	30 lb	Tempered Glass	30 11/16 in	Cream	Indoor	—	**35GX46**
Rectangular with Cam Lock and Break Glass Handle	5 lb	Tempered Glass	17 15/16 in	Cream	Indoor	—	**35GX48**
	10 lb	Tempered Glass	23 5/8 in	Cream	Indoor	—	**35GX49**
	20 lb	Tempered Glass	25 9/16 in	Cream	Indoor	—	**35GX50**
Rectangular with Continuous Hinge	10 lb	Tempered Glass	26 1/2 in	White	Indoor	Potter Roemer	**40LU35**
Stainless Steel							
Rectangular with Continuous Hinge	10 lb	Tempered Glass	27 in	Stainless Steel	Indoor	Potter Roemer	**40LU19**
Plastic							
Rectangular with Left- or Right-Hand Opening	5 lb	—	16 in	Red	Indoor, Outdoor	Jonesco	**6ATL7**
	10 lb	Plastic	23 1/2 in	Black/Red	Indoor, Outdoor	Jonesco	**6ATL6**
	20 lb	Plastic	29 in	Black/Red	Indoor, Outdoor	Jonesco	**6ATL5**
	20 to 30 lb	Plastic	24 in	Black/Red	Indoor, Outdoor	Jonesco	**6ATL4**
Polystyrene							
Rectangular with Cam Lock and Break Glass Hammer	10 lb	Acrylic	23 1/4 in	Red	Indoor, Outdoor	Cato	**404K13**
	20 lb	Acrylic	28 1/2 in	Red	Indoor, Outdoor	Cato	**404K15**
Semirecessed							
Galvanized Steel							
Rectangular with Cam Lock and Break Glass Handle	5 lb	Tempered Glass	20 3/4 in	White	Indoor	—	**1RK37**
	10 lb	Tempered Glass	26 3/4 in	White	Indoor	—	**1RK38**
Cold-Rolled Steel							
Rectangular with Continuous Hinge	5 lb	Tempered Glass	20 3/4 in	White	Indoor	Potter Roemer	**40LU31**
	10 lb	Break Glass	26 3/4 in	White	Indoor	Potter Roemer	**40LU32**
Rectangular with Cam Lock and Break Glass Handle	20 lb	Tempered Glass	28 in	Cream	Indoor	—	**35GX47**
Stainless Steel							
Rectangular with Continuous Hinge	10 lb	Tempered Glass	26 3/4 in	Stainless Steel	Indoor	Potter Roemer	**40LU23**

3JMY5

35WT39

5T909

40H503

35WT38

3JLR6

13J017

1RK29

4T307

Fire Extinguisher Brackets

AMEREX · BUCKEYE · Kidde · BADGER

Easy-to-mount brackets secure fire extinguishers in a prominent location so they are accessible in an emergency. All bracket straps are metal, except 3JLR6 has a rubber strap

Cap.	Cylinder Dia.	Color	Brand	Item No.
Box Type Bracket				
10 lb	5 in	Black	Amerex	**3JLR4**
20 lb	7	Black	Amerex	**3JMY5**
Heavy-Duty Bracket				
10 lb	5 in to 5 1/4 in	Black	Buckeye	**35WT39**
15 lb	6 1/2 in to 7 1/4 in	Black	Buckeye	**35WT40**
30 lb	7 in to 8 in	Black	Buckeye	**35WT45**
Marine/Vehicle Bracket				
5 lb	5¼ in	Black	Kidde	**5T906**
10 lb	5¼ in	Black	Kidde	**5T909**
20 lb	7 in	Black	Kidde	**5T908**
Running Board Bracket				
20 lb	—	Black	Badger	**40H503**
30 lb	—	Black	Badger	**40H504**
Strap Bracket				
2.5 lb	3⅜ in	Red	Buckeye	**35WT37**
2.75 lb	—	Red	Badger	**40H509**
5 lb	4¼ in	Red	Buckeye	**35WT38**
5 lb	3 in to 4 1/4 in	Red	Amerex	**3JLR6**
13 lb	4 1/4 in to 6 1/4 in	Red	Amerex	**3JMY6**
30 lb	6 1/2 in to 8 in	Red	Amerex	**3JMY7**
Vehicle/Marine/Aviation Bracket				
2.5 lb	3 in	Red	Amerex	**3JMY9**
2.5 lb	3 in	Red	Amerex	**13J016**
5 lb	4¼ in	Red	Amerex	**13J017**
Vehicle Bracket				
5 lb	5 in	Black	Badger	**6AJW5**
5 lb	4½ in	Black	Kidde	**1RK29**
Wall Bracket				
2 1/2 to 2 3/4 lb	3⅓ in	Black	Kidde	**4T307**
5 lb	4½ in	Black	Kidde	**4T308**

STEINER

Fire Extinguisher Covers

- Meet OSHA requirements

High-visibility, vinyl-coated red covers have a clear plastic window. Hook-and-loop self-adhering nylon fasteners help to keep the covers in place.

Cap.	Fits Tank Dia.	Fits Tank H	Item No.
5 to 10 lb.	5 in	23 in	**4T176**
15 to 30 lb.	9 in	27 in	**4T177**

4T176

Emergency Escape Ladders

Kidde

Lightweight steel ladders provide a fire escape route through an open window for floors above ground level. They store compactly and deploy quickly, attach to most window sills. Anti-slip rungs provide a safe descent, tested up to 1000 lb. Discard after single use.

4XP76

L	Features	For Use With	Item No.
13 ft	Tangle-Free, One-Time Use	2-Story Structures	**4XP76**
25 ft	Tangle-Free, One-Time Use	3-Story Structures	**4XP77**

1YNW9 36WA04 1XTG7 2FTL8 429J52 45TT72 3KN63

Smoke and Combination Smoke/CO Alarms

Alarm Types: Ionization respond best to fast-raging fires. Photoelectric respond best to slow-smoldering fires. All interconnect units must interface directly with their own brand of interconnectable smoke and carbon monoxide alarms.

SMOKE ALARMS

- Meet UL Standards

Test/Reset button verifies alarm circuitry, alarm activation, and battery function. 85dB horn. Easy installation. Operating temp. range: 40° to 100°F.

Battery-Powered—Provide continuous alarm operations during a power outage. Feature LED power-on indicator, tamperproof locking pin, and low-battery warning.

Interconnectable—Feature power-on and alarm indicators. Latching alarm identifies initiating alarm. Locking mechanisms lock the battery drawer and secure alarm to base, except 1XTG8 includes optional locking mechanism that deters removal of unit.

Interconnectable, for the Hearing Impaired—Strobe light flashes distinct patterns for smoke and, if connected to a CO alarm, carbon monoxide. 85dB horn. Features alarm latch for initiating unit and low-battery visual indicator.

- Meets UL 1971 visual signaling requirements

Hardwired Bridge Unit for Wireless Detectors—Add wireless capability to an interconnected system by replacing one wired unit. Helps avoid pulling wires through walls for retrofit and remodel projects.

Wireless—Interconnectable alarms simplify adding detectors to every room in a retrofit/remodel project. 85dB horn. Require Bridge Unit, sold separately.

COMBINATION SMOKE/CO ALARMS

- UL Recognized

Test/Reset button function tests alarm circuitry, alarm activation, and peak level memory. Feature visual indicators for alarm and power-on. 85dB horn. Easy installation. Operating temp.: 40° to 100°F.

Battery-Powered—Provide alarm function during a power outage. Voice warning announces "Fire," "Carbon Monoxide," or "Low Battery."

Interconnectable—Allow multiple alarm signals to be triggered from one source of hazard.

1XTH3 and 5MPL0 feature voice that announces "Fire," "Carbon Monoxide," or "Low Battery" warnings when detected. 2FTP5 voice warning includes location of danger, and has latching features to indicate initiating alarm and low battery.

INTERCONNECTABLE HEAT ALARMS

- 20JK13 meets UL 217 Standard
- 2FTN6 meets UL 539 Standard

Designed to give early warning of heat from fire. Alarm sounds before it reaches the fixed temperature rating of 135°F. 85dB horn. Originating alarm and power-on LED indicators. 20JK13 and 2FTN6 can be interconnected with smoke alarms. 20JK13 operating temp. range: -20° to 100°F.

2FTN6 operating temp. range: 10° to 135°F.

INTERCONNECTABLE STROBE LIGHTS

- Meet UL 1971 Standard

Use with a smoke, heat, or CO alarm to provide a visual warning to the hearing impaired and in quiet/silent areas. Produce separate flash patterns to differentiate smoke/heat and carbon monoxide warnings. LED power-on indicator. Mount to any standard electrical box up to 4" octagonal. Operating temp.: 40° to 100°F.

INTERCONNECTABLE ALARM MODULES

- UL Recognized

Activate auxiliary warning devices such as external bells, sirens, or exhaust fans. Feature one set of form C contacts.

Description	Power Source	Battery Backup	Hush Button	Mfg. Warranty	Brand	Mfr. Model	Item No.
Smoke Alarms							
Battery-Powered							
Ionization	9V	No	No	3 yr Limited	Kidde	i9040	**3TCT1**
Ionization	9V	No	No	5 yr Limited	Kidde	i9050	**5MPL5**
Ionization	9V	No	Yes	10 yr Limited	First Alert	FG250B	**2FTN9**
Ionization	9V	No	Yes	10 yr Limited	Kidde	i9060	**5MPL6**
Ionization	3V Lithium	No	Yes	10 yr Limited	Kidde	i9010	**1YNW9**
Ionization	9V	No	Yes	10 yr Limited	First Alert	FG250LB	**2FTP1**
Ionization	9V	No	Yes	10 yr Limited	First Alert	SA350B	**36WA04**
Photoelectric	9V	No	Yes	10 yr Limited	Kidde	P9050	**5MPL9**
Photoelectric	9V	No	Yes	10 yr Limited	First Alert	P1200	**36WA05**
Photoelectric	Sealed Lithium Ion	Yes	Yes	10 yr	Kidde	P3010L	**20JK08**
Photoelectric with Voice Alarm	Sealed Lithium Ion	Yes	Yes	10 yr	Kidde	P3010B	**20JK09**
Photoelectric with Safety Light	Sealed Lithium Ion	Yes	Yes	10 yr	Kidde	21010167	**20JK10**
Dual-Sensor Photoelectric/ Ionization	9V	No	Yes	5 yr Limited	Kidde	PI 9010	**5MPL7**
Interconnectable							
Ionization with Front-Load Battery Door	120V AC, 9V	Yes	Yes	5 yr Limited	Firex	i4618	**5MPK8**
Ionization with Front-Load Battery Door, 10-yr. Sensor	120V AC, 9V	Yes	Yes	10 yr Limited	Firex	i5000	**5MPK9**
Ionization	120V AC, 9V	Yes	Yes	5 yr Limited	Kidde	i12040	**1XTG6**
Ionization with Exit Light	120V AC, 9V	Yes	Yes	10 yr Limited	Kidde	i12080	**1XTG8**
Ionization with Front-Load Battery Door	120V AC, 9V	Yes	Yes	10 yr	Kidde	i12060	**1XTG7**
Ionization with Side-Load Battery Door	120V AC, 9V	Yes	Yes	10 yr Limited	BRK	9120B	**2FTL8**
Ionization with Locked Battery Door	120V AC, 9V	Yes	Yes	10 yr Limited	First Alert	9120LBL	**45TT73**
Photoelectric	120V AC, 9V	Yes	No	5 yr Limited	Firex	P12040	**5MPL3**
Photoelectric	120V AC	Yes	Yes	10 yr Limited	First Alert	7010B	**45JZ77**
Dual-Sensor Photoelectric/ Ionization	(2) AA, 120V AC	Yes	Yes	10 yr Limited	BRK	3120B	**5KCY8**
Dual-Sensor Photoelectric/ Ionization	120V AC, 9V	Yes	Yes	10 yr Limited	Firex	PI 2010	**5MPL8**
Interconnectable, for the Hearing Impaired							
Photoelectric with Strobe Light	120V AC, 3V Lithium	Yes	Yes	10 yr Limited	First Alert	7020BSL	**429J52**
Hardwired Bridge Unit for Wireless Detectors							
Ionization	120V AC, 9V	Yes	Yes	10 yr Limited	Kidde	RF-SM-AC	**5MPL1**
Wireless							
Ionization	(3) AA Batteries	No	Yes	10 yr Limited	Kidde	RF-SM-DC	**5MPL2**
Combination Smoke/CO Alarms							
Battery-Powered							
Ionization	9V	No	Yes	10 yr Limited	BRK	SCO2B	**5KCY7**
Ionization with Voice Alarm and Flashing Light	(3) AA Batteries	No	Yes	5 yr Limited	Kidde	KN-COSM-BA	**5TR37**
Photoelectric	Sealed Lithium Ion	Yes	Yes	10 yr	Kidde	P3010K-CO	**20JK11**
Photoelectric, Low Profile	(2) AA Batteries	No	Yes	10 yr Limited	First Alert	1039783	**45TT79**
Interconnectable							
Ionization with Voice Alarm	(2) AA, 120V AC	Yes	Yes	5 yr Limited	Kidde	KN-COSM-IBA	**1XTH3**
Ionization, Electrochemical	120V AC, 9V	Yes	Yes	10 yr Limited	BRK	SC9120B	**2FTP4**
Ionization, Electrochemical w/Locked Battery Door	120V AC, 9V	Yes	Yes	10 yr Limited	First Alert	SC9120LBL	**45TT72**
Photoelectric with Front-Load Battery Door and Voice Alarm	120V AC, 9V	Yes	Yes	7 yr Limited	Firex	KN-COPE-IC	**5MPL0**
Photoelectric with Voice Alarm	(2) AA Batteries, 120V AC	Yes	Yes	10 yr Limited	BRK	SC7010BV	**2FTP5**
Interconnectable Heat Alarms							
Heat Alarm	120V AC, 9V	Yes	No	10 yr	Kidde	HD135F	**20JK13**
Heat Alarm	120V AC, 9V	Yes	Yes	10 yr Limited	BRK	HD6135FB	**2FTN6** *
Interconnectable Strobe Lights							
Strobe Light	120V AC	—	—	5 yr Limited	Kidde	SL177I	**3KN63** †
Strobe Light	120V AC	—	—	10 yr	First Alert	SLED177	**429J53**
Interconnectable Alarm Modules							
Smoke Alarm Relay	120V AC	—	—	—	Kidde	SM120X	**3KN55** †
CO Alarm Relay	120V AC	—	—	—	Kidde	CO120X	**3AU39** †
Smoke, CO, and Heat Relay	120V AC	—	—	10 yr Limited	BRK	RM4	**2FTN7** *

** For use with BRK and First Alert alarms. † For use with Kidde alarms.*

5KCY4

12G545

2FTN1

40H497

2FTL9

6AJW6

20JK12

1RK40

1XTH2

BRK · Kidde · FIRST ALERT

Carbon Monoxide Alarms

- UL 2034 Listed

85dB horn sounds when sensor detects high levels of CO. Select models feature visual alert when alarm needs replacement. Operating temp.: 40° to 100°F.

Battery-Powered CO Alarms—User-friendly detectors have easy-access battery compartments. 3YNJ3 has a battery lockout system.

Plug-In CO Alarms—6AJW6 has tamper-resist feature that sounds a constant alarm if unit is unplugged or comes loose from wall outlet. 2FTN5 and 20JK12 include a 6-ft. extension cord for table or shelf mounting.

Plug-In Combination CO and Explosive Gas Alarm—Unit also detects methane or propane gas. Includes extension cord for table or shelf mounting.

Interconnectable CO Alarms—When interconnected with smoke alarms, 1XTH1 and 1XTH2 feature two different sounding patterns to differentiate smoke and carbon monoxide warnings. 2FTN2 features latching alarm indication and a locking mechanism to prevent theft of battery or unit.

Description	Digital Readout	Hush Button	Mfg. Warranty	Brand	Mfr. Model	Item No.
Battery-Powered CO Alarms						
9V	No	Yes	10 yr Limited	BRK	CO250B	**5KCY4**
(2) AA	No	No	7 yr Limited	Kidde	9C05-LP2	**12G545**
(3) AA	No	No	7 yr Limited	Kidde	KN-COB-B-LP	**3YNJ3**
(3) AA	Yes	No	7 yr Limited	Kidde	KN-COPP-B-LPM	**12G547**
(2) AA with Front-Load Battery Access	Yes	Yes	7 yr Limited	First Alert	CO410	**2FTN1**
Sealed Lithium Ion	No	No	10 yr Limited	Kidde	C3010	**40H496**
Sealed Lithium Ion	Yes	No	10 yr Limited	Kidde	C3010-D	**40H497**
(2) AA with Front Load Battery Access	No	Yes	7 yr Limited	First Alert	CO400B	**2FTL9**
(3) AA	Yes	No	7 yr Limited	Kidde	KN-COPP-B-LS	**3YNJ4**
Plug-In CO Alarms with 9V Battery Backup						
120VAC	No	No	5 yr Limited	Kidde	KN-COB-DP2	**6AJW6**
AC Front Load Battery Access	Yes	Yes	7 yr Limited	First Alert	1039746	**2FTN5**
AC Front Load Battery Access	No	Yes	7 yr Limited	First Alert	CO605B	**2FTN4**
120VAC, 9V	Yes	Yes	10 yr	Kidde	KN-COPP-3	**20JK12**
Plug-In Combination CO and Explosive Gas Alarm with 9V Battery Backup						
120VAC	Yes	No	7 yr Limited	Kidde	KN-COEG-3	**1RK40**
Interconnectable CO Alarms with 9V Battery Backup						
120VAC	No	No	5 yr Limited	Kidde	KN-COB-IC	**1XTH1**
120VAC	Yes	No	5 yr Limited	Kidde	KN-COP-IC	**1XTH2**
120VAC with Side-Load Battery Access	No	Yes	10 yr Limited	BRK	CO5120BN	**2FTN2**

SYSTEM SENSOR

Carbon Monoxide Alarm

4-wire detector is designed for system operation. Operates on most industry security and fire alarm control panels. Features RealTest technology, which allows detector to be tested with CO gas. Mounts to single-gang electrical box. 85dB horn. Operating temp.: 32° to 104°F. 12/24VDC. UL Listed.

Includes	Mfr. Model	Item No.
Optional Drywall Anchors	5CGZ7	**5CGZ7**

SAFEAWAKE

Smoke Alarm Aid

SafeAwake Smoke Alarm Aid works in tandem with, and is activated by traditional, audible smoke alarms to improve fire safety for elderly and hard-of-hearing populations. When an alarm sounds, the SafeAwake is triggered to flash a bright light and set off its own loud, low-frequency audible alarm that can be heard by the hearing impaired. It also sets off a motorized bed shaker to wake up slumbering residents. Easy setup makes it an excellent choice for homes, hotels, hospitals, senior residences, and independent and assisted living facilities. With automatic shutoff and restart, turn-on indicator light, test button, and battery backup (batteries included). UL Listed.

Detection Method	Mfr. Model	Item No.
Ionization and Photoelectric Smoke Alarm	SART 9V 1.0	**49H879**

8XZH8

3VG75

CRC

Smoke Detector Testers

Functional testers for commercial and residential smoke detectors do not contaminate or discolor detectors or ceilings, and will not damage plastics or leave a smoky residue. Convenient aerosol can makes testing easy and safe. UL Listed.

Description	Brand	Item No.
Smoke Check	—	**8XZH8**
CRC Smoke Test	CRC	**3VG75**

STI FIRESTOP 3M

Fire Barrier Products

Pillows and Self-Locking Pillows—STI brand pillows are lightweight and intumescent on all sides. Reinstallable for fast, convenient retrofitting of cables. UL Classified and FM Approved.

3M brand self-locking pillows have strips that adhere to each other to make overhead installation easier.

Composite Sheets—Fire-stop large openings through fire-rated walls and floors with multiple penetrations. Anchor sheets to the wall or floor with common tools. Cut to fit irregular shapes. Can fire-stop openings up to 36 sq. ft. STI brand sheets are lightweight for easy handling and fabrication.

Mortar—Use for filling large openings in concrete floors and walls. Nonshrinking; can be poured, pumped, or troweled. Will not crack due to temperature fluctuations. STI brand yields approx. 1250 to 1425 cu. in. 3M brand yields approx. 697 cu. in. UL Classified except 4MM45.

Wrap Strips, Duct and Plenum Wrap—Use wrap strips to fire-stop metallic and nonmetallic pipes, insulated pipes, and cable bundles. Duct wrap protects both grease and ventilation ducts. UL Classified except 1XTJ1 and 3BE40. Plenum wrap protects plastic pipe.

Plugs—Intumescent fire-stop plugs temporarily or permanently seal metallic conduits or conduit sleeves from the inside, through gypsum or concrete/masonry walls. Install with no special tools required. UL Classified.

Pipe Collars—Intumescent devices expand during a fire to help close off plastic pipe that penetrates fire-rated walls and floors. Seal off burning ABS and PVC pipes, both solid and foam core, as well as CPVC, PVDF, and FRPP pipes. 3-hr. fire rating. 3BE43 and 3BE44 are UL Classified.

Accessories—Mineral Wool Board 3BE69 provides high-temperature thermal control and fire resistance. Foil Tape 4MM48 and Metal Restraining Collar 4MM49 are for use with STI brand wrap strips. Use 4MM48 for tuck-in installation; for external mounting, use 4MM49.

Packing Material 1XRT3 is for use around metallic, nonmetallic, and insulated pipe; UL Classified.

3PA74

4MM45

1XTJ1

5GKD5

3BE65

3BE69

5PB34

6VEE4

3BE38

5GUZ9

5GKA6

6MKL2

3BE43

1XRT3

Description	L	W	H	Mfr. Model	Item No.	Pkg. Qty.
STI						
Pillows						
Pillow	9 in	4 in	1 in	SSB14	**3PA71**	1
Pillow	9 in	4 in	2 in	SSB24	**3PA72**	1
Pillow	9 in	6 in	2 in	SSB26	**3PA73**	1
Pillow	9 in	6 in	3 in	SSB36	**3PA74**	1
Composite Sheets						
Composite Sheet	28 in	16 in	—	CS1628	**6LE17**	1
Composite Sheet	36 in	24 in	—	CS2436	**6LE18**	1
Composite Sheet	36 in	36 in	—	CS3636	**6LE19**	1
Mortar						
6-gal. Pail	—	—	—	SSM106	**4MM45**	1
Wrap Strip						
Wrap Strip for Nonmetallic or Insulated Pipe	12 ft	1 ½ in	⅛ in	SSWRED2	**1XTJ1**	1
Plugs						
2 in dia.	—	2 in	3 in	FP200	**5GKD4**	1
4 in dia.	—	4 in	3 in	FP400	**5GKD5**	1
Pipe Collars For Plastic Pipes						
1½ in dia.	—	—	—	LCC150	**3BE65**	1
2 in dia.	—	—	—	LCC200	**3BE66**	1
3 in dia.	—	—	—	LCC300	**3BE67**	1
4 in dia.	—	—	—	LCC400	**3BE68**	1
Accessories						
Mineral Wool Board	48 in	1 ½ in	24 in	SSAMW	**3BE69**	2
Foil Tape For 1XTJ1	30 ft	2 in	—	SSWFT	**4MM48**	1
Metal Restraining Collar For 1XTJ1	25 ft	5 in	—	SSWRC2	**4MM49**	1
3M						
Pillows and Self-Locking Pillows						
Pillow	9 in	4 in	2 in	FB-249	**1MN79**	1
Pillow	9 in	6 in	2 in	FB-269	**1MN80**	1
Pillow	9 in	6 in	3 in	FB-369	**1MN81**	1
Self-Locking Pillow	9 in	4 in	2 in	SLP-SMALL	**5PB34**	1
Self-Locking Pillow	9 in	6 in	2 in	SLP-MEDIUM	**5PB35**	1
Self-Locking Pillow	9 in	6 in	3 in	SLP-LARGE	**5PB36**	1
Composite Sheets						
Composite Sheet	28 in	16 in	—	CS-195+16X28-BOX	**3BE37**	1
Composite Sheet	36 in	24 in	—	CS-195+3X2-BOX	**3BE38**	1
Composite Sheet	36 in	36 in	—	CS-195+3X3-BOX	**3BE39**	1
Mortar						
5-gal. Pail	—	—	—	MORTAR	**6VEE4**	1
Wrap Strips, Duct and Plenum Wrap						
Wrap Strip for Nonmetallic or Insulated Pipe	24 in	2 in	¼ in	FS-195+	**3BE40**	1
Wrap Strip for 2 in dia. Nonmetallic Pipe	8 ¼ in	2 ½ in	3/16 in	WS200	**5GUZ8**	24
Wrap Strip for 3 in dia. Nonmetallic Pipe	11 ½ in	2 ½ in	3/16 in	WS300	**5GUZ9**	24
Wrap Strip for 4 in dia. Nonmetallic Pipe	14 ⅞ in	2 ½ in	3/16 in	WS400	**5GVA0**	24
Wrap Strip for Nonmetallic Pipe	8 ft	3/16 in	2 ½ in	WS-ROLL	**6VEE5**	1
Duct Wrap	25 ft	48 in	1 ½ in	615+48	**5GKA6**	1
Plenum Wrap	50 ft	24 in	½ in	PLENUM-WRAP-5A+(24")	**6MKL2**	1
Pipe Collars For Plastic Pipes						
1½ in dia.	—	—	—	ULTRA-PPD-1.5	**3BE43**	1
2 in dia.	—	—	—	ULTRA-PPD-2	**3BE44**	1
3 in dia.	—	—	—	ULTRA-PPD-3	**3BE45**	1
4 in dia.	—	—	—	ULTRA-PPD-4	**3BE46**	1
Accessories						
Packing Material	20 ft 6 in	4 in	½ in	PM4-BULK	**1XRT3**	1

3PA76

4MM47

19T027

12Z616

4MM46

2XKE3

5Z337

18M459

STI FIRESTOP 3M

Fire Barrier Products

PENETRATION SEALANTS

Material expands when exposed to heat or fire. Can be applied to vertical or overhead surfaces. Easy installation, cleanup, and disposal. Nonhalogen formula requires no mixing. Paintable, sag-resistant sealants remain flexible.

4-hr. Latex—STI brand models are FBC compatible and acoustically tested to reduce noise transmission. Versatile LCI commercial-grade formula has fast-acting intumescence that expands up to 10 times for a wide range of applications. SSS industrial-grade multiviscosity formula has 2-stage intumescence for extremely fast expansion.

3M brand bonds to concrete, metal, wood, plastic, and cable jacketing. Formula dries tack-free in 10 to 15 min.; paintable after 72 hr. All models are CPVC compatible.

2-hr. Latex—Dries tack-free in 8 to 12 min.; paintable after 72 hr. CPVC compatible.

4-hr. Watertight Silicone—3M intumescent sealant adheres to concrete, gypsum, metal, plastic, and wood.

PENETRATION AND JOINT SEALANTS

Latex sealants are resistant to water; they dry without shrinking and will not re-emulsify after drying. Endothermic fillers absorb heat and release water. Silicone sealants are for through penetrations and joints. Low modulus for ±50% movement capabilities. Ozone- and UV-resistant. CPVC compatible.

JOINT SEALANTS AND SPRAYS

For sealing fire-rated joints. Water-based sealants are highly elastomeric and easily installed. Sprays can be applied with conventional airless spray equipment and have acoustic properties to reduce noise transmission.

PUTTY, PUTTY PADS, AND PUTTY STICKS

Flexible putty has intumescent and endothermic properties and molds easily into penetrations. Pads provide easy application to electrical boxes or other penetrations. Putty sticks stay pliable to allow easy access for cable mining at a later time.

SMOKE AND ACOUSTICAL CAULK AND SPRAY

Use halogen- and solvent-free material for sealing through penetrations in smoke-rated walls. Flexible.

RESIDENTIAL FIRE BLOCK

Halogen-free sealant resists high temperatures, has minimal shrinkage, and will not sag or run in vertical or overhead applications. Tack-free in 15 min.

FIRE BLOCK FOAM

Foam-in-place fire block and draft stop for nonrated residential and commercial construction. Helps seal, fill, insulate, and bond. Also helps reduce air infiltration. Bonds to concrete, brick, metal, wood, plastic, and cable jacketing.

FIRE BARRIER FOAM AND DISPENSING GUNS

1-step foam is a convenient alternative to 2-part epoxy, mineral wool, or bricks. Expands at a consistent pace in horizontal and vertical applications. Dispensing guns offered separately. Automatic cordless gun includes lithium-ion battery, charger, and soft-sided bag. Dispenses up to 60 cartridges per charge.

3BE35

5ZM24

18M458

19UC77

5Z424

55JK93

Description	Color	Size	Mfr. Model	Item No.	Pkg. Qty.	
STI						
Penetration Sealants						
4-hr. Latex	Red	10 oz	LCI300	**3PA75**	1	*
4-hr. Latex	Red	20 oz	LCI320	**3BE58**	1	
4-hr. Latex	Red	5 gal	LCI305	**3PA76**	1	*
4-hr. Latex	Red	10 oz	SSS100	**4MM47**	1	
4-hr. Latex	Red	20 oz	SSS120	**3BE56**	1	†
4-hr. Latex	Red	29 oz	SSS129	**3BE57**	1	†
4-hr. Latex	Red	5 gal	SSS105	**4WR98**	1	
Penetration and Joint Sealants						
Latex Endothermic Sealant	Red	10 oz	LC150	**19T027**	1	‡
Latex Endothermic Sealant	Red	10 oz	LC150	**12Z613**	12	‡
Latex Endothermic Sealant	Red	5 gal	LC155	**12Z614**	1	‡
Joint Sealants and Sprays						
Latex Elastomeric Sealant	Blue	10 oz	ES100	**3BE59**	1	
Latex Elastomeric Sealant	Blue	20 oz	ES120	**19T026**	1	
Elastomeric Spray	Blue	5 gal	AS205	**4MM44**	1	†
Elastomeric Spray	Red	5 gal	AS205R	**12Z616**	1	†
Putty and Putty Pads						
Intumescent Putty	Red	36 cu in	SSP100	**4MM46**	1	
Intumescent Putty Pad	Red	7 ½ in L x 7 ½ in W	SSP4S	**3BE63**	1	
Intumescent Putty Pad	Red	9 in L x 9 in W	SSP9S	**3BE64**	1	
Smoke and Acoustical Caulk and Spray						
Caulk	White	20 oz	SNS120W	**2XKE3**	1	
Spray	White	5 gal	SNS205	**2XKE5**	1	
3M						
Penetration Sealants						
4-hr. Latex	Red-Brown	10 oz	CP-25WB+10.1OZ	**5Z337**	1	*
4-hr. Latex	Red-Brown	20 oz	CP-25WB+20OZ	**5ZW91**	1	*
4-hr. Latex	Red-Brown	2 gal	CP-25WB+2GAL	**5ZX52**	1	*
4-hr. Latex	Red-Brown	5 gal	CP-25WB+5GAL	**5Z381**	1	*
2-hr. Latex	Yellow	10 oz	IC-15WB+-10.1OZ	**3BE31**	1	
4-hr. Watertight Silicone	Gray	10 oz	3000WT-10.1OZ	**5PB37**	1	‡
Penetration and Joint Sealants						
Latex Sealant	Red	10 oz	FD 150+	**18M459**	1	‡
Latex Sealant	Red	20 fl oz	FD 150+	**18M460**	1	‡
Latex Sealant	Red	4.5 gal	FD 150+	**18M461**	1	‡
Latex Sealant	Blue	10 oz	FD 150+	**5ZX57**	1	‡
Latex Sealant	Limestone	10 oz	FD 150+	**2UYC8**	1	‡
Silicone Sealant	Gray	10 oz	1000-N/S-10.1OZ	**3BE35**	1	†
Silicone Sealant	Gray	10.3 oz	2000+10.3OZ	**2JDG5**	12	‡
Joint Spray						
Elastomeric Spray	Red	5 gal	FD-200	**5GUZ4**	1	†
Putty Pads and Putty Sticks						
Moldable Putty Pad	Red-Brown	7 in L x 7 in W	MPP+7"X7"*	**5YR04**	1	†
Moldable Putty Pad	Red-Brown	9 ½ in L x 9 ½ in W	MPP+9.5"X9.5"*	**5ZM24**	1	†
Moldable Putty Stick	Red-Brown	1 ½ in dia x 6 in H	PUTTYSTK R	**2UYE9**	1	
Moldable Putty Stick	Red-Brown	1 ½ in dia x 11 in L	MP+1.4X11	**5Z424**	1	†
Residential Fire Block						
Sealant	Gray	10 oz	FB136	**5PB33**	1	
Fire Block Foam						
Aerosol	Orange	12 oz	FB-FOAM-ORANGE	**18M458**	1	
Fire Barrier Foam and Dispensing Guns						
Foam Sealant	Red-Brown	13 oz	FIP 1-STEP	**19UC77**	6	
Manual Dispensing Gun for 19UC77	Black	—	00076308146122	**54ZT49**	1	
Automatic Dispensing Gun for 19UC77	Black	—	DISP_GUN	**55JK93**	1	
Automatic Dispenser Gun Battery	Black	—	00076308146146	**54ZT48**	1	

** UL Listed. † UL Classified and FM Approved. ‡ UL Classified.*

FIRESTOP 3M

Fire Barrier Products

Cable Pass-Through Devices—Intumescent material expands rapidly when exposed to fire or high heat to quickly seal pathways. STI EZ Path devices eliminate the need to remove and reinstall or adjust fire-stop materials. 6LE11 and 3BE71 include the EZ Path device and 1 set of wall plates and labels. 32TL92 Smoke and Acoustical Pathway is designed for easy installation in nonrated floors and walls. This pathway has been tested and approved for cable capacities ranging from 0 to 100% visual fill. In these installations, the device does not require mechanical attachment to either the wall or the wall framing and may be installed after the wallboard has been installed. Split body design can be easily disassembled and installed around previously installed cables in existing construction. Multiple ganged devices using duplex, or quad wall plates provide additional capacity or segregation of cables by use, type, installer, or vendor as desired. 49VU22 includes the EZ Path device, 1 set of wall plates, labels and gaskets. 52ZW83 and 52ZW87 Marine Cable Transits are zero-maintenance, designed to take control of your fire-rated divisions in nonwatertight applications without the need to mechanically seal openings. Install individually or gang together to accommodate future expansions or increased cable load capacity. The heavy-duty mounting plates can be welded or even bolted to the fire-rated division for fast and convenient installs at sea or in dry dock. 3M 1XRR4 pass-through device is hinged for easy retrofit installation around cables. 53XH82, 53XH83, and 49VU22 are UL and C-UL Classified.

Cable Pass-Through Brackets—1FET7 is a range-taking mounting bracket kit providing 1 to 5 positions (slots) for mounting "ganged" pathways (devices) in wall assemblies. Multiple pathways are installed as a single group using adjustable vertical end brackets.

Cable Grommets—Eliminate the need for putty or sealant. 2-pc. polymer grommets snap together for easy installation. UL and C-UL Classified.

Sleeve Kits—Ready-to-install kits include sleeves, brackets, screws, and putty. 5GUZ6 and 5GUZ7 are UL Classified.

Description	L	W	H	Shape	Brand	Mfr. Model	Item No.
Cable Pass-Through Devices							
EZ Path Series 22 Pathway Kit	10 ½ in	1 ½ in	1 ½ in	Square	STI	EZD22	**6LE11**
EZ Path Series 33 Pathway and Wall Plate Kit	10 ½ in	3 in	3 in	Square	STI	EZDP33FWS	**3BE71**
EZ Path Series 33 Pathway	10 ½ in	3 in	3 in	Square	STI	EZD33FWS	**3BE70**
EZ Path Series 200 Pathway	6 5/16 in	4 7/8 in	3 11/16 in	Square	STI	EZDR200	**53XH82**
EZ Path Series 400 Pathway	6 in	3 in	5 13/32 in	Square	STI	EZDR400	**53XH83**
EZ Path Smoke and Acoustical Pathway	4 in	4 ½ in	4 ½ in	Square	STI	NEZ33	**32TL92**
EZ Path Series 44+ Pathway	14 in	4 ½ in	4 ½ in	Rectangle	STI	EZDP44S2	**49VU22**
EZ Path Marine Cable Transit	6 in	9 13/16 in	6 29/32 in	Rectangle	STI	MDM150A	**52ZW83**
EZ Path Marine Cable Transit	14 in	7 in	7 39/64 in	Rectangle	STI	MDM400B	**52ZW87**
Cable and Pipe Round Pass-Through	10 in	2 in	2 in	Round	3M	PT2RD	**1XRR4**
Cable Pass-Through	10 in	4 in	4 in	Square	3M	PT4SD	**2RB16**

Description	L	W	H	Brand	Mfr. Model	Item No.	Pkg. Qty.
Cable Pass-Through Brackets							
EZ Path Double Wall Plate Kit	12 in	6 in	2 in	STI	EZP233W	**3BE73**	1
EZ Path Triple Wall Plate Kit	12 in	6 in	2 in	STI	EZP333W	**3BE74**	1
Multigang Pathway Wall Bracket	10 in	2 in	6 in	STI	EZP544W	**1FET7**	1
Cable Grommets							
Fits Max. Cable O.D. 14mm	1 5/8 in	1 in	1 in	STI	RFG2	**13P641**	10
Fits Max. Cable O.D. 7mm	1 5/8 in	9/16 in	6 ¾	STI	RFG1	**13P640**	10
Plates							
Conduit Attachment	6 ¼ in	7 ½ in	2 1/8 in	STI	EZP133CA	**6LE12**	2
Circular Wall	6 ¼ in	7 ½ in	2 1/8 in	STI	EZP133CW	**6LE13**	2
Sleeve Kits							
1-Pc. Sleeve, 1 in dia.	12 in	1 in	1 in	STI	FS100	**6LE14**	1
1-Pc. Sleeve, 2 in dia.	2 in	2 ½ in	2 in	STI	FS201	**1FET8**	1
	12 in	—	—	3M	DT200	**5GUZ6**	1
1-Pc. Sleeve, 4 in dia.	12 in	—	—	3M	DT400	**5GUZ7**	1
2-Pc. Split Sleeve, 2 in dia.	12 in	6 in	—	STI	FSR200	**1FEU2**	1

6LE11

3BE71

3BE70 and 6LE13 (Sold Separately)

53XH82

53XH83

32TL92

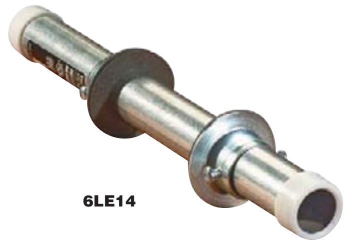
49VU22

52ZW83

1XRR4

2RB16

13P641


6LE14

Safety Cabinet Information

Safety cabinets keep dangerous liquids organized, labeled, and separate from work areas. All include warning/content labels.

Consider the following when selecting a cabinet:

- Federal, state, and local compliance requirements
- Hazardous chemical flash point

OSHA COMPLIANCE:

The combined total of Category I, 2, 3 and 4 liquids should not exceed 60 gal.

FLASH POINT GUIDE FOR OSHA:

Category 1 and 2 Flammables - Below 73.4°F

Category 3 Flammables - At or Above 73.4°F/At or Below 140°F

Category 4 Flammables - Above 140°F/At or Below 199.4°F

NFPA 30 COMPLIANCE:

The combined total of all Class I, II, and III liquids should not exceed 120 gal.

FLASH POINT GUIDE FOR NFPA 30:

Class I Flammables - Below 100°F

Class II Combustibles - 100° to 139°F

Class III Combustibles - 140°F and above

DOOR CLOSURE TYPES:

Manual requires a worker to close the door.

Self-closing shuts automatically when the door is released to meet NFPA 1 fire code standards.

DOOR STYLES:

Single hinged has one door.

Double hinged has two narrow doors to allow doors to be fully opened in a smaller space.

Single bi-fold folds in the middle when open to take up less floor space.

Four hinged has four doors to allow doors to be fully opened individually.

MATERIALS:

Steel is powder-coated to resist corrosion.

Polyethylene is suitable for highly aggressive liquids and has no metal parts to corrode.

Wood laminate resists corrosion from harsh acids. It keeps cabinet contents cooler longer than steel cabinets, which transfers heat to the cabinet interior.

CABINET TYPES:

Standard-height are 35" or taller and do not have a toe kick.

Slimline are 24" wide or less to fit into smaller spaces.

Undercounter have a recessed toe kick to allow workers to stand comfortably in front of the cabinet.

Countertop are small enough to fit on most workbenches (less than 35" high) to keep items at eye level and easily accessible.

Stackable have a footprint that fits onto an existing base so cabinet capacity can be safely expanded without using more floor or countertop space.

Wall-mount have mounting holes in the back of the cabinet to allow them to be hung on a wall without drilling holes that can damage the integrity of the cabinet.

Drum safety storage do not have shelves in the lower portion of the cabinet to accommodate large containers such as 30- and 55-gallon drums.

Combination standard and drum storage safety have two distinct storage areas that store small- to moderate-sized containers and 55-gallon drums.

IBC (Intermediate Bulk Containers) tote safety lockers have a large sump capacity to contain spills and help meet compliance requirements. Heavy duty construction supports the weight of the container and its contents.

Aerosol safety storage have shelves with cutouts to accommodate standard-sized aerosol cans.

Standard Polyethylene 45UW92

Standard Wood Laminate 1AG24 (Contents not included.)

Undercounter Steel 8XCN1

Countertop Steel 1YNH8 (Contents not included.)

Countertop Stackable Steel 4HTY4

JUSTRITE® Jamco Products EAGLE®

Acids & Corrosives Safety Cabinets

- Blue color
- For small container storage, except 13M568 holds 1 drum
- Steel cabinets include leveling feet
- For indoor use
- Justrite steel cabinets are FM approved and meet International Fire Code and NFPA 1 standards
- Jamco steel cabinets are FM approved and meet UFC 79 standards

These cabinets store acids and corrosives and protect them from hazards and help contain spills that can contaminate the worksite. They also prevent the contents from igniting in the event of a fire and have chemical-resistant coatings to protect surfaces from spills and leaks. Modular Quik-Assembly, polyethylene cabinets offer lockable doors that open 180º and adjustable shelves.

Additional shelves create extra storage space or replace damaged shelves. Match the brand of shelf and cabinet together along with the storage capacity.

Storage Cap.*	Ext. Dim. (W x D x H)	Door Handle Type	Lock Type	No. of Shelves	No. of Doors	Brand	DOOR CLOSURE TYPE MANUAL Item No.	SELF-CLOSING Item No.
Standard Safety Cabinets, Double Hinged								
Steel								
30 gal	43 in x 18 in x 44 in	Recessed Pull Handle	Keyed/Padlockable	1	2	Justrite	**4HTY7**	**4HTY8**
30 gal			Keyed	1	2	Jamco	**36WJ06**	**49R171**
45 gal	43 in x 18 in x 65 in		Keyed/Padlockable	2	2	Justrite	**4HTY9**	**9GMP6**
45 gal			Keyed	2	2	Jamco	**36WJ07**	**49R172**
60 gal	34 in x 34 in x 65 in		Keyed/Padlockable	2	2	Justrite	**4HTZ1**	**4HTZ2**
90 gal	43 in x 34 in x 65 in		Keyed/Padlockable	2	2	Justrite	**13M571**	**13M574**
Standard Safety Cabinets, Single Hinged								
Polyethylene								
12 gal	18 in x 22 in x 36 in	Molded-In	Padlockable	2	1	Eagle	**45UW86**	—
Standard Safety Cabinets, Four Hinged								
Polyethylene								
48 gal	36 in x 22 in x 72 in	Molded-In	Padlockable	8	4	Eagle	**45UW92**	—
Standard Safety Cabinets, Double Hinged								
Wood Laminate								
23 gal	36 in x 22 in x 35 ¾ in	Bar Handle	Keyed	1	2	Justrite	**102XD0**	—
32 gal	42 in x 18 in x 60 in		Keyed	2	2	Justrite	**1AG24**	—
Standard Slimline Safety Cabinets, Single Hinged								
Steel								
12 gal	23 in x 18 in x 35 in	Recessed Pull Handle	Keyed	1	1	Jamco	**36WJ03**	**515X81**
12 gal	23 ¼ in x 18 in x 35 in		Keyed/Padlockable	1	1	Justrite	—	**4KPX3**
15 gal	23 ¼ in x 18 in x 44 in		Keyed/Padlockable	1	1	Justrite	**786V99**	**786VA0**
18 gal	23 in x 18 in x 44 in		Keyed	2	1	Jamco	**515X64**	**515X82**
24 gal	23 in x 18 in x 65 in		Keyed	3	1	Jamco	**36WJ05**	**515X83**
Undercounter Safety Cabinets, Double Hinged								
Steel								
22 gal	35 in x 22 in x 35 in	Recessed Pull Handle	Keyed/Padlockable	1	2	Justrite	**1YNF4**	**8XCN1**
Polyethylene								
23 gal	36 in x 23 ½ in x 35 in	Molded-In	Padlockable	1	2	Justrite	**102XE3**	—
Countertop Safety Cabinets, Single Hinged								
Steel								
4 gal	17 in x 17 in x 22 in	Recessed Pull Handle	Keyed/Padlockable	1	1	Justrite	**1YNH8**	**13M526**
6 gal	23 in x 18 in x 22 in		Keyed	0	1	Jamco	**515X63**	**515X80**
Polyethylene								
4 gal	18 in x 18 in x 22 in	Molded-In	Padlockable	2	1	Eagle	**45UW81**	—
Countertop Stackable Safety Cabinets, Double Hinged								
Steel								
12 gal	43 in x 18 in x 18 in	Recessed Pull Handle	Keyed/Padlockable	1	2	Justrite	**4HTY4**	**102XK1**
17 gal	43 in x 18 in x 24 in		Keyed/Padlockable	1	2	Justrite	**4HTY6**	**102XK6**
Standard Safety Cabinets, Double Hinged								
Steel								
55 gal	34 in x 34 in x 65 in	Recessed Pull Handle	Padlockable	1	2	Justrite	**13M568**	—

For Use With Cabinet Storage Cap.	Dim. (W x D)	Load Cap.	Color	Material	Brand	Item No.
Additional Shelves						
4 gal	14 in x 13 in	33 lb	Silver	Steel	Justrite	**40ZX69**
6 gal, 12 gal, 18 gal, 24 gal	20 in x 14 ¼ in	350 lb	Silver	Steel	Jamco	**786VA8**
12 gal, 15 gal, 22 gal	19 ¾ in x 14 in	350 lb	Silver	Steel	Justrite	**13M431**
15 gal	22 in x 15 in	350 lb	Silver	Steel	Justrite	**40ZX70**
23 gal	34 in x 17 in	125 lb	White	Wood Laminate	Justrite	**40ZX64**
23 gal	34 in x 20 ½ in	125 lb	Blue	Polyethylene	Justrite	**48LY18**
30 gal, 45 gal	39 ¾ in x 14 ¼ in	350 lb	Silver	Steel	Jamco	**786VA9**
32 gal	40 in x 14 in	125 lb	White	Wood Laminate	Justrite	**40ZX63**

** Code states that not more than 60 gal. may be Class I and Class II liquids.*

Find more Safety Cabinet information on page 1836.

Standard
3NPH9
(Contents not included.)

Standard
786V07

Standard Slimline
515X66

Countertop
515X65

EAGLE® Jamco Products JUSTRITE

Pesticides Safety Cabinets

- Green color
- For small container storage
- Recessed pull door handles
- For indoor use
- Cabinets meet OSHA and NFPA Code 30 Standards and are FM approved
- Justrite cabinets also meet NFPA 1 and the International Fire Code
- Jamco cabinets also meet UFC 79 standards

Steel pesticide safety cabinets store pesticides and turf chemicals to prevent the contents from igniting in the event of a fire. Shelves have trays that contain small spills. Chemical-resistant coatings protect surfaces from spills and leaks.

Additional shelves create storage space or replace damaged shelves. Match the brand of shelf and cabinet together along with the storage capacity.

Storage Cap.	Ext. Dim. (W x D x H)	Door Type	Lock Type	No. of Shelves	No. of Doors	Includes Leveling Feet	Brand	DOOR CLOSURE TYPE: MANUAL Item No.	DOOR CLOSURE TYPE: SELF-CLOSING Item No.
Standard Safety Cabinets									
30 gal	43 in x 18 in x 44 in	Double Hinged	Keyed	1	2	Yes	Eagle	**3NPK4**	**786V08**
30 gal	43 in x 18 in x 44 in	Double Hinged	Keyed	1	2	Yes	Jamco	**36WJ14**	**49R178**
30 gal	43 in x 18 in x 44 in	Double Hinged	Keyed/Padlockable	1	2	No	Justrite	**3NPH8**	**13M547**
45 gal	43 in x 18 in x 65 in	Double Hinged	Keyed	2	2	Yes	Eagle	**4RF71**	**786V07**
45 gal	43 in x 18 in x 65 in	Double Hinged	Keyed	2	2	Yes	Jamco	**36WJ15**	**49R179**
45 gal	43 in x 18 in x 65 in	Double Hinged	Keyed/Padlockable	2	2	No	Justrite	**3NPH9**	**13M556**
60 gal	34 in x 34 in x 65 in	Double Hinged	Keyed	2	2	Yes	Eagle	**786V47**	**786V46**
60 gal	34 in x 34 in x 65 in	Double Hinged	Keyed	2	2	Yes	Jamco	**36WJ16**	**49R180**
60 gal	34 in x 34 in x 65 in	Double Hinged	Keyed/Padlockable	2	2	Yes	Justrite	**3NPJ1**	**786V96**
Standard Slimline Safety Cabinets									
12 gal	23 in x 18 in x 35 in	Single Hinged	Keyed	1	1	Yes	Jamco	**36WJ11**	**49R175**
12 gal	23 ¼ in x 18 in x 35 in	Single Hinged	Keyed/Padlockable	1	1	No	Justrite	**3NPH6**	**13M531**
18 gal	23 in x 18 in x 44 in	Single Hinged	Keyed	2	1	No	Jamco	**515X66**	**515X85**
20 gal	23 ¼ in x 18 in x 35 in	Single Hinged	Keyed	1	1	Yes	Eagle	**786UY6**	**786UY7**
24 gal	23 in x 18 in x 65 in	Single Hinged	Keyed	3	1	Yes	Jamco	**515X67**	**515X86**
Countertop Safety Cabinets									
6 gal	23 in x 18 in x 22 in	Single Hinged	Keyed	1	1	No	Jamco	**515X65**	**515X84**

For Use With Cabinet Storage Cap.	Dim. (W x D)	Load Cap.	Color	Brand	Item No.
Additional Shelves					
6 gal, 12 gal, 18 gal, 24 gal	20 in x 14 ¼ in	350 lb	Silver	Jamco	**786VA8**
12 gal	19 ¾ in x 14 in	350 lb	Silver	Justrite	**13M431**
30 gal, 45 gal	39 ½ in x 14 in	350 lb	Silver	Justrite	**1YNH7**
30 gal, 45 gal	39 ¾ in x 14 ¼ in	350 lb	Silver	Jamco	**786VA9**
60 gal	30 ½ in x 29 in	350 lb	Silver	Justrite	**1YNG4**
60 gal	30 ¾ in x 30 ½ in	350 lb	Silver	Jamco	**786VC0**

Standard
32XT41

Standard Slimline
32XT38

Undercounter
102XD5

Countertop
32XT33

Countertop Stackable
102XD3

JUSTRITE®

Hazmat Safety Cabinets

- Deep blue color
- For small container storage
- Self-closing doors
- Recessed pull door handles
- For indoor use
- Meet NFPA 1, NFPA Code 30 and 400 Standards
- Meet International Fire Code
- FM approved

Steel hazmat cabinets safely store hazardous materials in facilities that use hazardous chemicals. All cabinets include polyethylene trays.

Storage Cap.*	Ext. Dim. (W x D x H)	Door Type	Lock Type	No. of Shelves	No. of Doors	Includes Leveling Feet	Item No.
Standard Safety Cabinets							
30 gal	43 in x 18 in x 44 in	Double Hinged	Keyed	1	2	No	**102XD6**
45 gal	43 in x 18 in x 65 in	Double Hinged	Padlockable	2	2	Yes	**32XT41**
60 gal	34 in x 34 in x 65 in	Double Hinged	Keyed	2	2	No	**102XD9**
90 gal	43 in x 34 in x 65 in	Double Hinged	Padlockable	2	2	Yes	**32XT44**
Standard Slimline Safety Cabinets							
12 gal	23 ¼ in x 18 in x 35 in	Single Hinged	Padlockable	1	1	Yes	**32XT34**
15 gal	23 ¼ in x 18 in x 44 in	Single Hinged	Padlockable	1	1	Yes	**32XT36**
22 gal	23 ¼ in x 18 in x 65 in	Single Hinged	Padlockable	3	1	Yes	**32XT38**
54 gal	23 ¼ in x 34 in x 65 in	Double Hinged	Keyed	3	2	No	**102XD8**
Undercounter Safety Cabinet							
22 gal	35 in x 22 in x 35 in	Double Hinged	Keyed	1	2	No	**102XD5**
Countertop Safety Cabinet							
4 gal	17 in x 17 in x 22 in	Single Hinged	Padlockable	1	1	Yes	**32XT33**
Countertop Stackable Safety Cabinets							
12 gal	43 in x 18 in x 18 in	Double Hinged	Keyed	0	2	No	**102XD3**
17 gal	43 in x 18 in x 24 in	Double Hinged	Keyed	1	2	No	**102XD4**

** Code states that not more than 60 gal. may be Class I and Class II liquids.*

Find more Safety Cabinet information on page 1836.

Cabinet for (2) 30 Gal. Drums
786V66

Cabinet for (1) 55 Gal. Drum
55EC28

2 Hour Locker for (8) 55 Gal. Drums
56EC66

Noncumbustible Locker for (10) 55 Gal. Drums
5NTR8

EAGLE® DENIOS THE HAZMAT PRO®

Hazmat Drum Safety Cabinets & Lockers

- Meet NFPA Code 30 Standards; Lockers are also NFPA 400 approved
- FM approved
- Eagle cabinets are for indoor use; Denios lockers are for outdoor use

Steel storage cabinets and lockers store hazardous materials and do not have shelves in the lower portion of the cabinet to accommodate large containers such as 30- and 55-gallon drums.

CABINETS

Cabinets have a keyed lock. 6YG25 and 55EC26 to 55EC29 include a plus grounding attachment, red trilingual warning, and a self latching door.

786V66 has a continuous piano hinge, dual vents, fully welded construction, grounding lug, SpillSlope shelves, and welded shelf hangers.

LOCKERS

Padlockable. Offer a 90 mph wind rating.

Lockers with a noncombustible fire rating have an anchoring point, exterior grounding lug, galvanized grating above a spill compliant sump, and passive ventilation.

Lockers with a 2 Hour fire rating comply with fire rating requirements for storage of flammables within 10 feet of your facility.

All lockers feature lockable hinged doors with an inside release that provides added safety. Sumps are sized to provide compliant spill volumes.

Drum Cap.	Ext. Dim. (W x D x H)	Door Type	Door Handle Type	Fire Rating	Color	Sump Cap.	No. of Doors	Brand	DOOR CLOSURE TYPE MANUAL Item No.	DOOR CLOSURE TYPE SELF-CLOSING Item No.
Vertical Storage Cabinets for 30 Gallon Drums										
2	43 in x 34 in x 65 in	Double Hinged	Recessed Pull Handle	—	Yellow	—	2	Eagle	**6YG25**	**786V66**
Vertical Storage Cabinets for 55 Gallon Drums										
1	34 in x 34 in x 65 in	Double Hinged	Recessed Pull Handle	—	Yellow	—	2	Eagle	**55EC29**	**55EC28**
2	59 in x 34 in x 65 in	Double Hinged		—	Yellow	—	2	Eagle	**55EC27**	**55EC26**
Vertical Storage Lockers for 55 Gallon Drums										
2	73 ¼ in x 58 in x 98 in	Single Hinged	L-Handle	Noncombustible	White	103 gal	1	Denios	**56EC61**	—
2	73 ¾ in x 57 ¾ in x 98 in	Single Hinged		2 Hour	White	77 gal	1	Denios	**56EC63**	—
4	73 ¼ in x 69 ¾ in x 98 in	Single Hinged		Noncombustible	White	128 gal	1	Denios	**56EC62**	—
4	73 ¾ in x 71 in x 98 in	Single Hinged		2 Hour	White	99 gal	1	Denios	**56EC64**	—
6	95 ¼ in x 71 in x 98 in	Single Hinged		2 Hour	White	125 gal	1	Denios	**56EC65**	—
6	95 ¼ in x 69 ¾ in x 98 in	Single Hinged		Noncombustible	White	170 gal	1	Denios	**5NTR6**	—
8	120 ¼ in x 71 in x 102 in	Single Hinged		2 Hour	White	165 gal	1	Denios	**56EC66**	—
8	120 ¼ in x 69 ¾ in x 98 in	Single Hinged		Noncombustible	White	218 gal	1	Denios	**5NTR7**	—
10	145 ¼ in x 69 ¾ in x 98 in	Double Hinged		Noncombustible	White	267 gal	2	Denios	**5NTR8**	—
12	170 ¼ in x 71 in x 102 in	Double Hinged		2 Hour	White	245 gal	2	Denios	**56EC67**	—
12	170 ¼ in x 69 ¾ in x 98 in	Double Hinged		Noncombustible	White	315 gal	2	Denios	**5NTR9**	—
14	213 ¼ in x 71 in x 102 in	Double Hinged		2 Hour	White	315 gal	3	Denios	**56EC68**	—
14	213 ¼ in x 69 ¾ in x 98 in	Double Hinged		Noncombustible	White	398 gal	3	Denios	**5NTT0**	—

2-Hour Locker for (1) Tote
56EC72
(Contents not included.)

Noncombustible Locker for (2) Totes
9AM05

DENIOS THE HAZMAT PRO®

Hazmat IBC Tote Safety Lockers

- Deep blue color
- Manual door closure
- L-handle
- Meet NFPA Code 30 Standards
- FM approved
- For outdoor use

Vertical lockers meet NFPA 400 standards for storage of hazardous materials. Steel IBC lockers have a large sump capacity to contain spills and help meet compliance requirements. Heavy duty construction supports the weight of the container and its contents. Have 2 doors.

IBC Capacity	Ext. Dim. (W x D x H)	Door Type	Fire Rating	Sump Cap.	Item No.
1	99 in x 70 in x 100 in	Single Hinged	Noncombustible	559 gal	**8NJT8**
1	99 in x 70 in x 100 in	Single Hinged	2 Hour	438 gal	**9UA63**
1	99 in x 88 in x 120 in	Single Roll Up	2 Hour	438 gal	**56EC72**
2	153 in x 70 in x 88 in	Double Hinged	Noncombustible	501 gal	**9AM05**
2	153 in x 70 in x 88 in	Double Hinged	2 Hour	423 gal	**8DPR3**
2	153 in x 84 in x 109 in	Single Roll Up	2 Hour	423 gal	**56EC73**

Find more Safety Cabinet information on page 1836.

Jamco Products · Condor · EAGLE® · JUSTRITE®

Flammables Safety Cabinets

- For small container storage
- For indoor use
- Meet OSHA and NFPA Code 30 Standards
- FM Approved

Steel safety cabinets for flammable and combustible liquids reduce the risk of the contents igniting in the event of a fire or as a result of environmental conditions. Cabinets are available in various colors to indicate cabinet contents to first responders. They also provide additional time for workers to evacuate or for sprinkler systems to extinguish a fire. All models include leveling feet, except those with legs. All cabinets offer recessed pull door handles, except 30 and 90 Min EN rated cabinets have bar handles. All Condor and Justrite combo model 4HTU4 have padlockable locks. Jamco, Eagle and Justrite have keyed locks.

Standard K3033 (Contents not included.)

Standard Combo with Safety Cans 4HTU4 (Contents not included.)

Standard with Legs 55EC11

Slimline 1YNG8

Undercounter 19T255

Countertop Stackable 1YNG7

Countertop 13M525

Wall-Mount K2477

Storage Cap.*	Ext. Dim. (W x D x H)	No. of Shelves	▶CHOOSE: Color	Brand	DOOR CLOSURE TYPE: MANUAL Item No.	DOOR CLOSURE TYPE: SELF-CLOSING Item No.
Standard Cabinets, Double Hinged						
22 gal	34 in x 18 in x 35 in	1	Yellow	Jamco	**19T257**	**19T273**
22 gal	35 in x 22 in x 35 in	1	Yellow	Condor	**42X497**	—
24 gal	43 in x 12 in x 44 in	3	Yellow	Condor	**42X498**	—
28 gal	34 in x 18 in x 44 in	2	Yellow	Jamco	**19T258**	—
30 gal	43 in x 18 in x 44 in	1	Gray, Red, Yellow	Eagle	**K2468**	—
30 gal		1	Red, Yellow	Justrite	**E4575**	**E4578**
30 gal		1	Red, Yellow	Eagle	—	**K2469**
30 gal	43 in x 12 in x 65 in	5	Red, Yellow	Eagle	**K3011**	**K3010**
30 gal	43 in x 18 in x 45 ½ in	1	Red	Condor	**491M89**	**491M94**
30 gal		1	Yellow	Condor	**42X499**	**45AE86**
44 gal	34 in x 18 in x 65 in	3	Yellow	Jamco	**19T259**	**19T275**
45 gal	43 in x 18 in x 65 in	2	Beige, Gray, Red, Yellow	Eagle	**K2470**	—
45 gal		2	Beige, Gray, Red, White, Yellow	Eagle	—	**K2471**
45 gal		2	Red, Yellow	Justrite	**E4576**	**E4579**
45 gal	43 in x 18 in x 66 ½ in	2	Yellow	Condor	**491M71**	**45AE88**
45 gal		2	Red	Condor	**491M97**	—
45 gal	43 in x 18 in x 65 in	2	Yellow	Jamco	**9PAF0**	—
45 gal	43 in x 18 in x 66 ½ in	2	Yellow	Condor	**42X501**	—
60 gal	34 in x 34 in x 65 in	2	Gray, Red, White, Yellow	Justrite	**E4577**	—
60 gal		2	Red, White, Yellow	Justrite	—	**E4580**
60 gal		2	Gray, Red, Yellow	Eagle	—	**K2472**
60 gal	43 in x 18 in x 65 in	5	Red, Yellow	Justrite	**K3033**	**K3034**
60 gal		5	Beige, Red, Yellow	Eagle	**K3014**	—
60 gal	34 in x 34 in x 65 in	2	Yellow	Eagle	**55EC19**	—
60 gal	34 in x 34 in x 66 ½ in	2	Yellow	Condor	**42X502**	**45AE82**
60 gal	43 in x 18 in x 65 in	5	Red, Yellow	Eagle	—	**K3013**
90 gal	43 in x 34 in x 65 in	2	Yellow	Justrite	**1YNG2**	**1YNG3**
90 gal		2	Yellow	Eagle	**55EC24**	**55EC22**
90 gal		2	Yellow	Jamco	**8EDY8**	**8G844**
90 gal	43 in x 34 in x 66 ½ in	2	Yellow	Condor	**45AE85**	**45AE89**
96 gal	34 in x 34 in x 65 in	5	Red	Eagle	—	**55EC18**
96 gal		5	Red, Yellow	Eagle	**F8852**	—
96 gal		5	Red, Yellow	Justrite	—	**K3036**
120 gal	59 in x 34 in x 65 in	2	Yellow	Condor	**60NH99**	—
120 gal		2	Yellow	Jamco	**19T256**	—
Standard Cabinets, Single Bi-Fold						
45 gal	43 in x 18 in x 65 in	2	Yellow	Justrite	—	**1YNE7**
60 gal	34 in x 34 in x 65 in	2	Yellow	Justrite	—	**1YNE8**
Standard Cabinet Combo—Includes (9) 5 gal Type 1 Safety Cans, Double Hinged						
45 gal	43 in x 18 in x 65 in	2	Yellow	Justrite	**4HTU4**	—
Standard Cabinets with Legs, Double Hinged						
28 gal	34 in x 18 in x 49 in	2	Yellow	Jamco	**19T280**	**19T286**
30 gal	43 in x 18 in x 48 in	1	Yellow	Eagle	**55EA93**	**55EA89**
30 gal	43 in x 18 in x 49 in	1	Yellow	Jamco	**19T281**	**19T287**
44 gal	34 in x 18 in x 70 in	3	Yellow	Jamco	**19T282**	**19T288**
45 gal	43 in x 18 in x 69 in	2	Yellow	Eagle	**55EC08**	**55EC01**
45 gal	43 in x 18 in x 70 in	2	Yellow	Jamco	**19T283**	**19T289**
60 gal	34 in x 34 in x 69 in	2	Yellow	Eagle	**6YG12**	**55EC17**
60 gal	43 in x 18 in x 69 in	5	Red	Eagle	**55EC11**	—
60 gal		5	Yellow	Eagle	**55EC13**	—
60 gal	34 in x 34 in x 70 in	2	Yellow	Jamco	**19T284**	**19T290**
90 gal	43 in x 34 in x 69 in	2	Yellow	Eagle	**55EC25**	**55EC23**
90 gal	43 in x 34 in x 70 in	2	Yellow	Jamco	**19T285**	**19T291**
96 gal	34 in x 34 in x 69 in	5	Red, Yellow	Eagle	**E5394**	—
120 gal	59 in x 34 in x 70 in	2	Yellow	Jamco	**19T279**	—
Standard High Security Cabinets, Double Hinged						
45 gal	43 in x 18 in x 65 in	2	Red, Yellow	Justrite	**K3023**	—
45 gal		2	Yellow	Justrite	—	**4KPX5**
45 gal		2	Red	Justrite	—	**786V82**
Standard 30 Min EN Fire Rated Cabinets, Double Hinged						
45 gal	46 in x 24 ½ in x 76 ¾ in	3	Yellow	Justrite	**45TP39**	—
Standard 30 Min EN Fire Rated Cabinets, Single Hinged						
30 gal	34 ¼ in x 24 in x 76 in	3	Yellow	Justrite	—	**102XE4**
Standard 90 Min EN Fire Rated Cabinets, Double Hinged						
30 gal	35 ¼ in x 24 in x 76 in	3	Yellow	Justrite	—	**102XE6**
45 gal	47 in x 24 ¼ in x 77 in	3	Yellow	Justrite	—	**102XE7**

Storage Cap.*	Ext. Dim. (W x D x H)	No. of Shelves	▶CHOOSE: Color	Brand	DOOR CLOSURE TYPE: MANUAL Item No.	DOOR CLOSURE TYPE: SELF-CLOSING Item No.
Slimline Standard Cabinets, Single Hinged						
12 gal	23 ¼ in x 18 in x 35 in	1	Yellow	Justrite	**E4583**	**E4584**
12 gal		1	Red, Yellow	Eagle	**K2473**	**K2474**
12 gal	23 in x 18 in x 36 ½ in	1	Yellow	Condor	**42X503**	**45AE87**
12 gal	23 in x 18 in x 35 in	1	Yellow	Jamco	**19T242**	**19T248**
15 gal	23 ¼ in x 18 in x 44 in	1	Yellow	Justrite	—	**4HTV8**
16 gal		1	Red, Yellow	Eagle	**K2480**	—
16 gal		1	Yellow	Eagle	—	**55EA74**
16 gal	23 in x 18 in x 45 ½ in	1	Yellow	Condor	**42X496**	**491M63**
22 gal	23 ¼ in x 18 in x 65 in	3	Yellow	Justrite	**1YNG8**	—
22 gal	23 ½ in x 18 ¼ in x 66 ½ in	2	Yellow	Condor	**491M64**	**45AE81**
24 gal	23 ¼ in x 18 in x 65 in	3	Gray, Red, Yellow	Eagle	—	**K2476**
24 gal		3	Red, Yellow	Eagle	**K2475**	—
60 gal	23 in x 34 in x 65 in	3	Yellow	Jamco	**19T246**	**19T252**
Slimline Standard Cabinets with Legs, Single Hinged						
12 gal	23 ¼ in x 18 in x 39 in	1	Yellow	Eagle	**55EA72**	**4HPT8**
16 gal	23 ¼ in x 18 in x 48 in	1	Yellow	Eagle	**55EA77**	**55EA75**
Undercounter Standard Cabinets, Double Hinged						
22 gal	35 in x 22 in x 35 in	1	Yellow	Justrite	**348NR2**	**1YNF9**
22 gal		1	Red	Justrite	**786V80**	**102WX6**
30 gal	48 in x 22 in x 35 in	1	Yellow	Jamco	**19T278**	**19T255**
Undercounter Standard Cabinets, Single Hinged						
12 gal	24 in x 22 in x 35 in	1	Yellow	Jamco	**515X56**	**19T253**
Countertop Stackable Standard Cabinets, Double Hinged						
17 gal	43 in x 18 in x 24 in	1	Yellow	Justrite	**1YNG7**	**1YNH6**
Countertop Standard Cabinets, Single Hinged						
1 gal	17 in x 8 in x 22 in	1	Yellow	Justrite	**39N578**	—
2 gal	17 in x 17 in x 18 in	1	Yellow	Eagle	**55EA60**	**55EA59**
2 gal	17 ½ in x 18 ¼ in x 18 ½ in	1	Yellow	Condor	**491M60**	—
4 gal	17 in x 17 in x 22 in	1	Yellow	Justrite	**E4581**	—
4 gal		1	Yellow	Eagle	**55EA62**	**K2479**
4 gal	17 ½ in x 18 ¼ in x 23 ½ in	1	Yellow	Condor	**45AE90**	**45AE83**
12 gal	23 in x 18 in x 22 in	1	Red	Jamco	—	**19T260**
Countertop Standard Cabinets, Single-Hinged						
4 gal	17 in x 17 in x 22 in	1	Yellow	Justrite	—	**13M525**
Countertop Stackable Standard Cabinets, Double Hinged						
12 gal	43 ¼ in x 18 ¼ in x 18 ¼ in	1	Yellow	Condor	**45AE84**	—
15 gal	43 in x 18 in x 24 in	1	Yellow	Eagle	**55EA73**	—
Wall-Mount Standard Cabinets, Double Hinged						
24 gal	43 in x 12 in x 44 in	3	Red, Yellow	Eagle	**K2477**	**K2478**

** Code states that not more than 60 gal. may be Class I and Class II liquids.*

Find more Safety Cabinet information on page 1836.

Horizontal for 55 Gal Drum 1YNF2 and Cradle 1BC80 (Sold separately; Contents not included.)

Vertical 55 Gal Drum 8E868

Vertical for 30 Gal Drums 786V90 (Contents not included.)

Vertical with Rollers for 55 Gal Drums K3029 (Contents not included.)

Ramp Platform 786VA7

JUSTRITE® EAGLE® Jamco Products Condor

Flammables Drum Safety Cabinets

- 2 double hinged doors
- Recessed pull handles
- Meet NFPA Code 30 standards
- FM approved
- For indoor use

These storage cabinets do not have shelves in the lower portion of the cabinet to accommodate large containers such as 30- and 55-gallon drums. 1YNH9 and 4HTZ3 are combination cabinets with two distinct storage areas for small- to moderate-sized containers and 55-gallon drums. Drum cradles, rollers and ramps are steel.

Drum Cap.	Ext. Dim. (W x D x H)	No. of Shelves	▶CHOOSE: Color	Brand	DOOR CLOSURE TYPE MANUAL Item No.	SELF-CLOSING Item No.
Drum Safety Cabinets						
Horizontal Storage For 55 Gallon Drums						
1	30 in x 48 in x 50 in	0	Yellow	Justrite	**1YNF2**	**9RCA4**
1	30 in x 48 in x 50 in	0	Yellow	Eagle	**3KN39**	**786V57**
1	30 in x 48 in x 50 in	0	Red	Eagle	**786V50**	—
Vertical Storage For 55 Gallon Drums						
1	34 in x 34 in x 65 in	1	Yellow	Justrite	**1YNF3**	**4HTW9**
1	34 in x 34 in x 65 in	1	Red	Justrite	**786V85**	**786V86**
1	34 in x 34 in x 65 in	1	Yellow	Eagle	**3W372**	**786V01**
1	34 in x 34 in x 65 in	1	Red	Eagle	**786V02**	**786V05**
1	34 in x 34 in x 65 in	1	Yellow	Jamco	**8E868**	**8EC28**
2	59 in x 34 in x 65 in	1	Yellow	Justrite	**4HTX1**	**13M581**
2	59 in x 34 in x 65 in	1	Red	Justrite	—	**786V87**
2	59 in x 34 in x 65 in	1	Yellow	Eagle	**4RF66**	**786V58**
2	59 in x 34 in x 65 in	1	Yellow	Jamco	—	**9UA25**
Vertical Storage with Drum Rollers 30 Gallon Drums						
1	43 in x 34 in x 65 in	1	Yellow	Justrite	**1YNH3**	—
1	43 in x 34 in x 65 in	1	Red, Yellow	Justrite	—	**K3030**
2	43 in x 34 in x 65 in	1	Red	Justrite	**786V90**	—
Vertical Storage with Drum Rollers For 55 Gallon Drums						
1	34 in x 34 in x 65 in	1	Yellow	Justrite	**1YNH1**	**4HTX2**
1	34 in x 34 in x 65 in	1	Red	Justrite	**786V88**	**786V89**
1	34 in x 34 in x 65 in	1	Yellow	Condor	**491M76**	—
1	34 in x 34 in x 66 ½ in	1	Yellow	Condor	—	**491M75**
2	59 in x 34 in x 65 in	1	Red, Yellow	Justrite	**K3029**	—
2	59 in x 34 in x 65 in	1	Yellow	Justrite	—	**6VTG5**
Combination Standard & Drum Storage Safety Cabinets						
1	59 in x 34 in x 65 in	3	Yellow	Justrite	**1YNH9**	**4HTZ3**

Description	For Use With Cabinet/Locker Type	For Use With Cabinet/ Locker Capacity	Dim. (W x D x H)	Load Cap.	Color	Brand	Item No.
Accessories							
For Eagle Cabinets							
Drum Cradle	Horizontal Drum Cabinets	55 gal	22 ½ in x 35 ½ in x 35 ¾ in	600 lb	Green	Eagle	**786V22**
Drum Roller	Double 30 gal Vertical Drum Storage Cabinets	60 gal	37 in x 30 in x 4 in	1,250 lb	Black	Eagle	**786V30**
Ramp	Vertical Drum Cabinets	—	28 in x 24 ½ in x 4 in	750 lb	Yellow	Eagle	**786V11**
For Jamco Cabinets							
Drum Roller	Drum Safety Cabinets	60 gal	20 in x 18 in x 3 in	—	Black, Silver	Jamco	**8PHP4**
Ramp Platform for Drums to be Stored in Flammable Cabinets		1 Drum, 2 Drum	20 in x 28 in x 3 in	350 lb	Silver	Jamco	**786VA7**
For Justrite Cabinets							
Drum Cradle	Drum Safety Cabinets	55 gal	22 ½ in x 35 ½ in x 20 ½ in	600 lb	Green	Justrite	**1BC80**
Drum Roller		55 gal	29 ½ in x 30 in x 30 in	1,250 lb	Silver	Justrite	**4HTR2**
Ramp	Vertical Drum Cabinets	—	28 in x 24 ½ in x 4 in	750 lb	Yellow	Justrite	**13M378**

1YNG6

JUSTRITE® Condor

Flammables Aerosol Safety Cabinets

- For aerosols storage
- Manual doors
- For indoor use
- Include leveling feet
- Meet NFPA Code 30 Standards
- FM Approved

Cabinets have shelves with cutouts to accommodate standard-sized aerosol cans. Single-hinged doors. 1YNG6 meets OSHA standard 1910.106.

Aerosol Capacity	Ext. Dim. (W x D x H)	No. of Shelves	Color	Brand	Item No.
24	21 in x 18 in x 27 in	1	Yellow	Justrite	**1YNG6**
24	23 in x 18 in x 35 in	2	Yellow	Condor	**491M59**

30RF41

3KP13

pig JUSTRITE®

Aerosol Single-Can Recycling Systems

These **recycling systems** help depressurize aerosol cans. They can safely puncture and drain cans to render them safe from hazardous waste regulations when properly emptied. 30RF41 includes puncture unit, goggles, 18" W x 12" H instruction sign, plastic sleeve, coalescing/carbon filter cartridge, 8 gaskets, and a 5-ft grounding wire. 3KP13 includes puncture unit, coalescing/carbon filter cartridge, anti-static wire, and goggles. **Filter cartridges** capture and eliminate volatile organic compounds (VOCs).

Description	For Use With	Brand	Item No.	Pkg. Qty.
Recycling Systems				
Aerosol Can Recycler	Domed Mini, Standard and Jumbo Cans—2 in to 3 in Can Dia. and 5 in to 9 ½ in Can Ht.	Pig	**30RF41**	1
Standard Aerosol Can Recycling System	Standard Cans—8 ½ in Can Ht.	Justrite	**3KP13**	1
Filter Cartridges				
Combination Coalescing/Carbon Filter	30RF41	Pig	**783Y07**	1
Combination Coalescing/Carbon Filter	3KP13	Justrite	**3KP11**	1
Activated Carbon Filter Cartridge for 3KP11	3KP13	Justrite	**3KP12**	2
Color Changing Combination Coalescing/Carbon Filter	3KP13	Justrite	**2RYG7**	1
Replacement Carbon Filter Cartridge for 2RYG7	3KP13	Justrite	**2RYG6**	2

Find more Safety Cabinet information on page 1836.

Cylinder Storage Information

Ventilated sides on cylinder cabinets prevent build-up of vapors and gasses that can cause an explosion. Assembled cabinets have welded seams for durability.

ORIENTATION:

Horizontal stores LP gas cylinders that are stored on their side.

Vertical holds LP or compressed gas cylinders that are stored on end.

Horizontal and vertical holds compressed gas cylinders vertically and LP gas cylinders horizontally or vertically.

Condor · JUSTRITE® · Jamco Products

Liquid Propane Gas Cylinder Safety Cabinets

- All Condor and Justrite cabinets meet NFPA Code 30 and 58 Standards; Also meet OSHA standard 1910.110
- Jamco models meet OSHA 1910.101 and 1910.253
- All Condor and Justrite cabinets are padlockable for extra security

Safety cabinets hold propane and other liquid propane gas (LPG) cylinders.

Horizontal Steel Holds 8 Cylinders 5CHL1

Horizontal Steel Holds 12 Cylinders 8E498

Vertical Aluminum Holds 8 Cylinders 13M586 (Cylinders not included.)

Cylinder Cap.	Ext. Dim. (W x D x H)	Material	Color	Door Handle Type	No. of Shelves	Assembled/ Unassembled	Compatible Tank Size	Brand	DOOR CLOSURE TYPE: MANUAL Item No.	DOOR CLOSURE TYPE: SELF-CLOSING Item No.
Horizontal Storage										
4	30 ⅛ in x 29 ¾ in x 34 ⅞ in	Steel	Yellow	Hasp Lock	1	Assembled	20 lb to 33 lb	Condor	**491M88**	—
4	31 in x 30 in x 35 in	Steel	Yellow	Hasp Lock	1	Unassembled	20 lb to 48 lb	Condor	**5CHL0**	—
6	30 ¼ in x 31 ⅞ in x 54 ¾ in	Steel	Yellow	Hasp Lock	3	Assembled	20 lb to 33 lb	Condor	—	**491M85**
8	30 in x 30 in x 71 ¾ in	Steel	Yellow	Hasp Lock	4	Assembled	20 lb to 33 lb	Condor	**491M90**	—
8	30 in x 32 in x 65 in	Aluminum	Silver	Hasp Lock	3	Assembled	20 lb to 33 lb	Justrite	**4HUA1**	—
8	31 in x 30 in x 65 in	Steel	Yellow	Hasp Lock	3	Unassembled	20 lb to 48 lb	Condor	**5CHL1**	—
12	50 in x 40 in x 71 in	Steel	Yellow	Slide Bolt Latch	3	Assembled	20 lb to 43 lb	Jamco	**8E498**	—
12	50 in x 42 in x 71 ¾ in	Steel	Yellow	Hasp Lock	3	Assembled	50 lb	Condor	**491M77**	**491M86**
16	60 in x 30 in x 65 in	Steel	Yellow	Hasp Lock	6	Unassembled	20 lb to 48 lb	Condor	**5CHL2**	—
16	60 in x 30 in x 71 ¾ in	Steel	Yellow	Hasp Lock	3	Assembled	20 lb to 33 lb	Condor	**491M91**	**491M87**
Vertical Storage										
2	20 in x 30 in x 35 in	Steel	Yellow	Hasp Lock	0	Assembled	50 lb	Condor	**491M93**	—
4	30 ⅛ in x 29 ¾ in x 34 ⅞ in	Steel	Yellow	Hasp Lock	0	Assembled	50 lb	Condor	**491M79**	**491M82**
6	33 in x 38 in x 39 in	Steel	Yellow	Slide Bolt Latch	0	Assembled	20 lb to 43 lb	Jamco	**18G968**	—
8	30 in x 32 in x 65 in	Aluminum	Silver	Hasp Lock	1	Assembled	20 lb to 33 lb	Justrite	**13M586**	—
18	49 in x 38 in x 70 in	Steel	Yellow	Slide Bolt Latch	1	Assembled	20 lb to 43 lb	Jamco	**18G970**	—

Condor · JUSTRITE® · Jamco Products

Compressed Gas Cylinder Safety Cabinets

- All Condor and Justrite cabinets meet NFPA Code 30 and 58 Standards; Also meet OSHA standard 1910.110
- Jamco models meet OSHA 1910.101 and 1910.253
- All Condor and Justrite cabinets are padlockable for added security

Vertical cabinets hold compressed gas cylinders that must be stored upright.

Steel Holds 9 Cylinders 5CHL5

Steel Holds 10 Cylinders 9WHC1

Aluminum Holds 20 Cylinders 4HUA5 (Cylinders not included.)

Vertical Cylinder Capacity	Ext. Dim. (W x D x H)	Material	Color	Door Closure Type	Door Handle Type	Assembled/ Unassembled	Compatible Tank Size	Brand	Item No.
4	30 ⅛ in x 29 ¾ in x 34 ⅞ in	Steel	Yellow	Manual	Hasp Lock	Assembled	50 lb	Condor	**491M79**
9	30 in x 29 ¾ in x 71 ¾ in	Steel	Yellow	Manual	Hasp Lock	Assembled	50 lb	Condor	**491M95**
9	31 in x 30 in x 65 in	Steel	Yellow	Manual	Hasp Lock	Unassembled	20 lb to 48 lb	Condor	**5CHL5**
10	30 in x 32 in x 65 in	Aluminum	Silver	Manual	Hasp Lock	Assembled	20 lb to 33 lb	Justrite	**4HUA4**
10	33 in x 40 in x 71 in	Steel	Yellow	Manual	Slide Bolt Latch	Assembled	20 lb to 43 lb	Jamco	**9WHC1**
12	50 in x 42 in x 71 ¾ in	Steel	Yellow	Manual	Hasp Lock	Assembled	50 lb	Condor	**491M80**
12		Steel	Yellow	Self-Closing	Hasp Lock	Assembled	50 lb	Condor	**491M83**
18	50 in x 30 in x 71 ¾ in	Steel	Yellow	Self-Closing	Hasp Lock	Assembled	50 lb	Condor	**491M84**
18	60 in x 30 in x 65 in	Steel	Yellow	Manual	Hasp Lock	Unassembled	20 lb to 48 lb	Condor	**5CHL3**
18	60 in x 30 in x 71 ¾ in	Steel	Yellow	Manual	Hasp Lock	Assembled	50 lb	Condor	**491M96**
20	50 in x 42 in x 71 ¾ in	Steel	Yellow	Manual	Hasp Lock	Assembled	50 lb	Condor	**491M81**
20	60 in x 32 in x 65 in	Aluminum	Silver	Manual	Hasp Lock	Assembled	20 lb to 33 lb	Justrite	**4HUA5**
20	64 in x 40 in x 71 in	Steel	Yellow	Manual	Slide Bolt Latch	Assembled	20 lb to 43 lb	Jamco	**8W147**

Condor · JUSTRITE®

Combination Liquid Propane & Compressed Gas Cylinder Safety Cabinets

- Manual door closure
- Meet NFPA Code 30 and 58 Standards
- Meet OSHA 1910.110
- Padlockable, hasp lock door handle

Cabinets have spaces to hold gas cylinders vertically and horizontally.

Steel Holds 8 LPG; 9 Compressed Cylinders 3 Shelves 5CHL4

Steel Holds 8 LPG; 9 Compressed Cylinders 4 Shelves 491M92

Cylinder Cap.	Ext. Dim. (W x D x H)	Material	Color	No. of Shelves	Assembled/ Unassembled	Compatible Tank Size	Brand	Item No.
8 LPG Cylinders; 9 Compressed Gas Cylinders	60 in x 30 in x 65 in	Steel	Yellow	3	Unassembled	20 lb to 48 lb	Condor	**5CHL4**
	60 in x 30 in x 71 ¾ in	Steel	Yellow	4	Assembled	20 lb to 33 lb	Condor	**491M92**
8 LPG Cylinders; 10 Compressed Gas Cylinders	60 in x 32 in x 65 in	Aluminum	Silver	3	Assembled	20 lb to 33 lb	Justrite	**4HTP9**

6AV78

2W428

6AG08

6AW03

2W313

3NKR5

JUSTRITE® EAGLE®

Type I Safety Cans

Safety cans with leaktight, self-closing spouts provide temporary storage of flammable liquids such as gasoline (red), kerosene (blue), diesel (yellow), and oil (green). Automatic vent feature protects against rupture or explosion, and flame arrestors protect contents from external ignition sources. Galvanized steel models feature an ergonomic, all-steel handle and chemical-resistant, high-gloss powder-coat finish. High-density polyethylene cans are impervious to many liquid chemicals, solvents, and corrosives.

Type I Safety Cans—Cans have a single opening for both filling and transfer of flammable liquids into containers with wider openings. Justrite and Eagle galvanized steel cans have a trigger-release cap. Justrite galvanized steel cans have a full-fisted grip handle that swings for easy handling, except 6UZN1 features a trigger handle. Justrite polyethylene cans have plated steel or stainless steel fittings and a flame arrestor and content ID zone for identification of fuels being stored.

Type I Safety Can Combo Kits—Include an Eagle Type I Safety Can with matching specifications and Funnel 6X853.

Funnels For Type I Safety Cans—Polyethylene funnels fit Type I cans. 3AG33 features a 2-position hinge that allows user to fill or pour without removing the funnel. 6X853 self-locks and is FM Approved.

Cap.	Color	Std.	Outside Dia.	H	Brand	Mfr. Model	Item No.	
Type I Galvanized Steel Safety Cans, Funnels Sold Separately Below								
⅛ gal	Red	FM, UL	4 13/16 in	6 ¾ in	Justrite	10001	**3LLD5**	
¼ gal	Red	FM, TUV, UL, ULC	4 13/16 in	8 ¼ in	Justrite	10101	**3AN24**	
½ gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	9 in	5 5/16 in	Eagle	UI4S	**3NKK3**	
1 gal	Red	FM, TUV, UL, ULC	9 ½ in	11 in	Justrite	7110100	**6AV78**	
1 gal	Red	FM, UL, ULC	7 ¼ in	11 ½ in	Justrite	10301	**6UZN1**	
1 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	9 in	8 in	Eagle	UI10S	**2W428**	
2 gal	Red	FM, TUV, UL, ULC	11 ¾ in	13 ¾ in	Justrite	7120100	**5AC08**	
2 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	11 ¼ in	9 ½ in	Eagle	UI20S	**2W429**	
2 gal	Blue	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	11 ¼ in	9 ½ in	Eagle	UI20SB	**3NKJ8**	
2 gal	Yellow	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	11 ¼ in	9 ½ in	Eagle	UI20SY	**3NKK1**	
2 ½ gal	Red	FM, TUV, UL, ULC	11 ¾ in	11 ½ in	Justrite	7125100	**6AG08**	
5 gal	Red	FM, TUV, UL, ULC	11 ¾ in	16 ⅞ in	Justrite	7150100	**6AW03**	
5 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	13 ½ in	Eagle	UI50S	**2W313**	
5 gal	Blue	FM, TUV, UL, ULC	11 ¾ in	16 ⅞ in	Justrite	7150300	**5HE21**	
5 gal	Blue	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	13 ½ in	Eagle	UI50SB	**4RF73**	
5 gal	Yellow	FM, TUV, UL, ULC	11 ¾ in	16 ⅞ in	Justrite	7150200	**5HE22**	
5 gal	Yellow	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	13 ½ in	Eagle	UI50SY	**4RF74**	
5 gal	Green	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	13 ½ in	Eagle	UI50SG	**2RNY6**	
Type I Polyethylene Safety Cans, Funnels Sold Separately Below								
1 gal	Red	FM	—	9 ½ in	Justrite	14160	**3NKT4**	*
2 ½ gal	Red	FM, UL	10 ¾ in	14 ¼ in	Justrite	14261	**3LLE7**	*
5 gal	Red	FM, UL	12 ¾ in	16 in	Justrite	14561	**3LLD6**	*
Type I Galvanized Steel Safety Can Combo Kits, Include Funnel 6X853								
1 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	9 in	10 in	Eagle	UI10FS	**3NKP8**	
2 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	11 ¼ in	11 ½ in	Eagle	UI20FS	**3NKR2**	
2 gal	Yellow	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	11 ¼ in	11 ½ in	Eagle	UI20FSY	**3NKR3**	
2 ½ gal	Red	FM, NFPA Code 30, OSHA, UL, ULC	11 ¼ in	12 in	Eagle	UI25FS	**15Z008**	
5 gal	Red	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	15 ½ in	Eagle	UI50FS	**3NKR5**	
5 gal	Blue	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	15 ½ in	Eagle	UI50FSB	**3NKR4**	
5 gal	Yellow	FM, NFPA Code 30, OSHA 29 CFR 1910.106, UL, ULC	12 ½ in	15 ½ in	Eagle	UI50FSY	**3NKR6**	
Funnels for Type 1 Safety Cans								
For Justrite 1 gal. or Larger Galvanized Steel Models, 11 in L x ½ in O.D.					Justrite	11202Y	**3AG33**	
For Eagle Galvanized Steel Models, 9 in L x 1⅛ in O.D.					Eagle	F15FUN	**6X853**	

*** Stainless steel hardware.***

9FA80

19MP69

JohnDow Industries

Portable Fuel Caddies

These mobile fuel caddies help you transport fuel safely to jobsites.

9FA80 and 8TTW6—Molded-in baffle prevents spills during transport. Spring-loaded nozzle with 2-way rotary hand pump and 10-ft. hose. Calibrated in 2-gal. increments. Polyethylene construction is resistant to chemicals, rust, and dents. Aluminum nonsparking axle and pneumatic tires with nylon bearings and wheel hubs. UN Approved, DOT Approved.

JohnDow Industries—Heavy-duty bidirectional pump provides suction for 5.7 gal./min. @ 72 rpm dispensing (1 gal. per 12 turns). Semipneumatic wheels provide safe, easy movement. Also features 2" filler neck for bulk filling. UL Listed.

Cap.	Color	H	W	D	Brand	Item No.
28 gal	Red	52 in	27 ½ in	22½ in	—	**9FA80**
28 gal	Yellow	52 in	27 ½ in	22½ in	—	**8TTW6**
30 gal	Red	40 in	24 in	22½ in	John Dow Industries	**19MP69**

GARAGE BOSS

WAVIAN USA

55GU76

33UZ30

Fuel Cans

- Meet EPA standards
- DOT and CARB Compliant

Provide temporary storage of flammable liquids such as gasoline (red), diesel (yellow), and kerosene (blue). Child-resistant fuel cans are self-venting for safe and easy pouring with auto shutoff. Angled and tapered design prevents spills, leaks, and reduces gas emissions. 55GU74–55GU78 have an intuitive press button spout that gives you precision flow control for an accurate, no-mess pour. 33UZ30 includes 0.9 mm cold-rolled steel walls, an interior rust-proof Rezol lining, internal breather pipe for splash-proof pouring, a three handle configuration for easy carrying, a leakproof bayonet closure, plus a locking pin for the cap.

GarageBOSS Press 'N Pour Spout—For use with all GarageBOSS fuel containers.

Cap.	Color	H	W	Brand	Item No.
Plastic GarageBOSS Press 'N Pour Cans					
1 gal	Red	8 in	6 in	GarageBOSS	**55GU74**
2 gal	Red	10 in	7 in		**55GU75**
5 gal	Red	14 in	7 in		**55GU76**
	Yellow	14 in	7 in		**55GU77**
	Blue	14 in	7 in		**55GU78**
Cold-Rolled Steel Can					
5.28 gal, 20 L	Red	19 in	6 ½ in	Wavian	**33UZ30**
Plastic GarageBOSS Press 'N Pour Replacement Spout					
Auto Shutoff, Self-Venting	Black/Red/White	—	—	GarageBOSS	**55GU79**

EAGLE® JUSTRITE®

Type II Safety Cans and DOT Transport/Dispensing Cans

2W314

9JFG0

5HE23

1BX14

6YG05

Galvanized steel safety cans with leaktight, self-closing spouts provide temporary storage of flammable liquids such as gasoline (red), kerosene (blue), diesel (yellow), and oil (green). Feature ergonomic, all-steel handle, flexible metal hose, automatic vent, and flame arrestor. Chemical-resistant, high-gloss powder-coat finish.

Type II Safety Cans—Cans have two openings for filling and pouring and a trigger release cap.
- FM Approved, UL and C-UL Listed, TUV Certified

Type II Safety Cans with AccuFlow—Vented AccuFlow manifold provides superior pour control and precise smooth flow. Features easy-trigger handle, 3½" stainless steel flame arrestor, and quick-open port with ergonomic lift handle. Warning label with extra-large ID zone identifies contents.
- FM Approved, UL and C-UL Listed, TUV Certified

Type II DOT Transport/Dispensing Cans—Specifically designed for applications requiring DOT/UN compliance. Roll bar construction protects the fill and pour mechanism from damage. Dual fusible-link bracket guards against spillage and vapor release during transport. 100% leak tested.
- Meet DOT requirements
- FM and UN Approved

Safety Can Spill Tray—Large diameter surface supports safety cans up to 5-gal. capacity.
- Meet OSHA and NFPA Code 30 Standards
- Carb Compliant

Cap.	Color	Outside Dia.	H	Hose Length	Hose O.D.	Brand	Mfr. Model	Item No.
Type II Safety Cans								
2½ gal.	Red	11 ¼ in	9 ½ in	12 in	⅞ in	Eagle	U226S	**2W683**
	Yellow	11 ¼ in	9 ½ in	12 in	⅞ in	Eagle	U226SY	**3NKU6**
5 gal.	Red	11 ¼ in	15 ⅞ in	12 in	⅝ in	Eagle	U251SX5	**20GY45**
5 gal	Red	11 ¼ in	15 ⅞ in	12 in	⅞ in	Eagle	U251S	**2W314**
5 gal.	Blue	11 ¼ in	15 ⅞ in	12 in	⅞ in	Eagle	U251SB	**3NKU7**
	Yellow	11 ¼ in	15 ⅞ in	12 in	⅞ in	Eagle	U251SY	**3NKU8**
Type II Safety Cans with AccuFlow								
1 gal.	Red	9 ½ in	10 ½ in	9 in	⅝ in	Justrite	7210120	**3NKT5**
	Blue	9 ½ in	10 ½ in	9 in	⅝ in	Justrite	7210320	**3NKK4**
	Yellow	9 ½ in	10 ½ in	9 in	⅝ in	Justrite	7210220	**3NKK6**
	Green	9 ½ in	10 ½ in	9 in	⅝ in	Justrite	7210420	**3NKK5**
2 gal.	Red	9 ½ in	13 ¼ in	9 in	⅝ in	Justrite	7220120	**3NKT7**
	Blue	9 ½ in	13 ¼ in	9 in	⅝ in	Justrite	7220320	**3NKL1**
	Yellow	9 ½ in	13 ¼ in	9 in	⅝ in	Justrite	7220220	**3NKL3**
	Green	9 ½ in	13 ¼ in	9 in	⅝ in	Justrite	7220420	**3NKL2**
2½ gal.	Red	11 ¾ in	12 in	9 in	⅝ in	Justrite	7225120	**9JFG0**
	Red	11 ¾ in	12 in	9 in	1 in	Justrite	7225130	**5LRG1**
	Blue	11 ¾ in	12 in	9 in	1 in	Justrite	7225330	**3NKJ1**
	Yellow	11 ¾ in	12 in	9 in	1 in	Justrite	7225230	**3NKJ3**
	Green	11 ¾ in	12 in	9 in	1 in	Justrite	7225430	**3NKJ2**
5 gal.	Red	11 ¾ in	17 ½ in	9 in	⅝ in	Justrite	7250120	**5AK44**
	Red	11 ¾ in	17 ½ in	9 in	1 in	Justrite	7250130	**3NKT9**
	Yellow	11 ¾ in	17 ½ in	9 in	⅝ in	Justrite	7250220	**13M486**
	Yellow	11 ¾ in	17 ½ in	9 in	1 in	Justrite	7250230	**5HE23**
	Blue	11 ¾ in	17 ½ in	9 in	1 in	Justrite	7250330	**3NKH7**
	Green	11 ¾ in	17 ½ in	9 in	1 in	Justrite	7250430	**3NKH8**
Type II DOT Transport/Dispensing Cans with AccuFlow								
2½ gal.	Red	11 ¾ in	12 in	9 in	⅝ in	Justrite	7325120	**5LRG3**
	Red	11 ¾ in	12 in	9 in	1 in	Justrite	7325130	**1BX14**
5 gal.	Red	11 ¾ in	18 ½ in	9 in	1 in	Justrite	7350130	**3NKU3**
Type II DOT Transport/Dispensing Can								
5 gal.	Red	12 ½ in	15 ¾ in	12 in	⅞ in	Eagle	1215	**6YG05**
Safety Can Spill Tray								
1 qt.	Red	13 ¾ in	1 ¼ in	—	—	Justrite	10177	**3NKR8**

1N760, 1N759, and 1N758

6AV89

5AP05

4T037

2RYG8

JUSTRITE® EAGLE®

Hazardous Liquid Safety Cans

- Meet OSHA Standards
- FM Approved

24-ga. galvanized steel cans with red powder-coat finish are used for general purpose solvents. Polyethylene cans are used with corrosive liquids or alcohol. Plunger and bench cans feature dasher plate to keep contents from ignition sources.

Plunger Cans—Permit fast, easy moistening of cleaning cloths when applying solvents to parts. Surplus liquid drains back into reservoir. Eagle brand models include brass plunger assembly. Justrite models have Ryton and brass plunger assembly.

Bench Cans—Ideal for easy cleaning of small parts in solvents. Eagle brand models feature spring-loaded, perforated dasher plate. Justrite brand models feature steel dasher plate that serves as an effective flame arrestor. Hinged cover minimizes evaporation loss.

Solvent Can with Tray—Portable, leaktight can features spring-loaded, self-closing lid. Controls VOC emissions and cleaning agents. Accepts standard long cotton-tipped applicators and small cleaning utensils. Tray makes it easy to carry to point-of-use.
- Meets EPA 40 Requirements

Cap.	Material	Outside Dia.	H	Dasher Plate Dia.	Brand	Mfr. Model	Item No.
Plunger Cans							
1 pt.	Galvanized Steel	4 ⅞ in	5 ¼ in	2 ¾ in	Justrite	10008	**6AP05**
1 qt.	Polyethylene	5 ½ in	8 ¼ in	5 in	Justrite	14018	**6AR07**
1 qt.	Polyethylene	5 ¼ in	9 ¾ in	5 ¼ in	Eagle	P711	**1N760**
1 qt.	Galvanized Steel	7 ¼ in	5 ⅝ in	5 in	Justrite	10108	**3TCG4**
1 qt.	Galvanized Steel	6 ¼ in	8 in	5 ¼ in	Eagle	P701	**4T038**
½ gal.	Polyethylene	6 ½ in	11 in	5 ¼ in	Eagle	P712	**1N759**
½ gal.	Galvanized Steel	7 ¼ in	7 ⅜ in	5 in	Justrite	10208	**6AV89**
½ gal.	Galvanized Steel	8 in	8 ½ in	5 ¼ in	Eagle	P702	**4T039**
1 gal.	Polyethylene	7 ¾ in	13 in	5 ¼ in	Eagle	P714	**1N758**
1 gal.	Galvanized Steel	7 ¼ in	10 ½ in	5 in	Justrite	10308	**5AV31**
1 gal.	Galvanized Steel	8 in	10 ¾ in	5 ¼ in	Eagle	P704	**4T040**
Bench Cans							
1 qt.	Galvanized Steel	4 ⅞ in	5 ½ in	4 ½ in	Justrite	10175	**3TCF5**
1 qt.	Galvanized Steel	6 ¼ in	3 ⅝ in	5 in	Eagle	B601	**3KN44**
½ gal.	Galvanized Steel	9 ⅜ in	3 ¼ in	7 ½ in	Justrite	10295	**3AD27**
½ gal.	Galvanized Steel	8 in	4 ¼ in	7 in	Eagle	B602	**4T036** *
1 gal.	Galvanized Steel	9 ⅜ in	4 ½ in	7 ½ in	Justrite	10375	**3TCG2**
1 gal.	Galvanized Steel	9 ⅜ in	4 ½ in	7 ½ in	Justrite	10370	**5AP05** *
1 gal.	Galvanized Steel	8 in	6 ½ in	7 in	Eagle	B604	**3KN45**
1½ gal.	Galvanized Steel	7 ¾ in	9 ½ in	7 in	Eagle	B606	**3TCF6**
2 gal.	Galvanized Steel	11 ½ in	5 ⅞ in	9 ¾ in	Justrite	10575	**3TCF7**
2 gal.	Galvanized Steel	11 ¼ in	7 in	9 ¼ in	Eagle	B608	**4T037**
3 gal.	Galvanized Steel	13 ½ in	6 in	12 ⅛ in	Justrite	10775	**3TCF8**
Solvent Can with Tray							
½ gal.	Galvanized Steel	10 ½ in	7 in	—	Justrite	09400	**2RYG8**

** Includes parts basket.*

Scan. Order. Done.
Details on page A1.

5U737

F0097
Red

F8383
Red

E6820
Silver

3TCH4

EAGLE® JUSTRITE®

Oily Waste Cans

Available with foot- or hand-operated covers; countertop models are also available. Lid opens to a restricted angle and is self-closing to minimize the risk of spontaneous combustion.

Polyethylene—Impact-resistant noncorrosive polyethylene is impervious to many liquid chemicals, solvents, and corrosives.
- Meet OSHA Standards

Galvanized Steel—Durable, chemical-resistant construction provides extended service life. Red and yellow cans have a powder-coat finish; silver cans have a clear-coat finish. E6819 through E6822 feature a SoundGard lid with specially designed, sound muffling pad to reduce annoying lid closure noise. Ideal for quiet environments.
- UL Listed, except 4KPX1 and F0097
- FM Approved

Cap.	Color	L	W	H	Brand	Mfr. Model	Item No.
Polyethylene							
Self-Closing, Foot-Operated							
6 gal.	Red	16 ½ in	13 ½ in	16 in	Eagle	933FL	**5U737**
6 gal.	Yellow	16 ½ in	13 ½ in	16 in	Eagle	933FLY	**1YNN1**
10 gal.	Red	22 in	18 in	18 in	Eagle	935FL	**3KN43**
10 gal.	Yellow	22 in	18 in	18 in	Eagle	935FLY	**1YNN2**
14 gal.	Red	22 in	18 in	21 in	Eagle	937FL	**5U738**
14 gal.	Yellow	22 in	18 in	21 in	Eagle	937FLY	**1YNN3**

Cap.	▶CHOOSE: Color	Outside Dia.	H	Brand	Mfr. Model	Item No.
Galvanized Steel						
Countertop						
½ gal.	Red	6 ½ in	6 ½ in	Justrite	09410	**4KPX1**
2 gal.	Red, Yellow	9 ⅝ in	9 ⅛ in	Justrite	09200, 09200Y	**F0097**
Self-Closing, Foot-Operated						
6 gal.	Red, Yellow	11 ⅞ in	15 ⅞ in	Justrite	09100, 09101	**F8383**
10 gal.	Red, Yellow	13 ¹⁵⁄₁₆ in	18 ¼ in	Justrite	09300, 09301	**F8424**
14 gal.	Red, Yellow	16 ¹⁄₁₆ in	20 ¼ in	Justrite	09500, 09501	**F8423**
21 gal.	Red, Yellow	18 ⅜ in	23 ⁷⁄₁₆ in	Justrite	09700, 09701	**F8461**
Self-Closing, Foot Operated with SoundGard						
6 gal.	Red, Silver	11 ⅞ in	15 ⅞ in	Justrite	09108, 09104	**E6819**
10 gal.	Red, Silver	13 ¹⁵⁄₁₆ in	18 ¼ in	Justrite	09308, 09304	**E6820**
14 gal.	Red, Silver	16 ¹⁄₁₆ in	20 ¼ in	Justrite	09508, 09504	**E6821**
21 gal.	Red, Silver	18 ⅜ in	23 ⁷⁄₁₆ in	Justrite	09708, 09704	**E6822**
Self-Closing, Hand-Operated						
6 gal.	Red	11 ⅞ in	15 ⅞ in	Justrite	09110	**3TCH4**
10 gal.	Red	13 ¹⁵⁄₁₆ in	18 ¼ in	Justrite	09310	**3TCH5**
14 gal.	Red	16 ¹⁄₁₆ in	20 ¼ in	Justrite	09510	**4KPX2**
21 gal.	Red	18 ⅜ in	23 ⁷⁄₁₆ in	Justrite	09710	**3TCH6**

3NKN4

3NKJ4

1AD89

1YNJ4

5AD27

2AF92

Safety Containers for Laboratory Environments

JUSTRITE® EAGLE®

Laboratory Faucet Cans—Self-closing faucet provides safe dispensing. Fill spout has pressure-relief cap with flame arrestor. 5-gal. models include a built-in vacuum breaker. Brass faucet, except 3NKU4 faucet is stainless steel. Cans are shelf-mounted with a bottom-mount faucet, except 3NKU4, 3NKJ4, and 3NJX9 faucets are located on the top.
- FM Approved
- 3NKJ4 is UL Approved

Self-Close Acid/Corrosive Safety Cans—Store acids and caustics. Spring-close cap provides tight seal. Containers are marked in liters, quarts, and gallons for accurate filling and dispensing.

Bottle Safety Jacket—Protects 4L and 1-gal. glass bottles from breakage. Bottle fits into bottom half of cover, and lid twists securely for safe pouring.

Dispensing Squeeze Bottles—Feature stainless steel wire with shapable stem that dispenses a fine, targeted stream of flammable liquid directly onto or into small objects and allows access to hard-to-reach areas.

Dispensing Bottles—1-handed brass dispensing valves are leakproof and self-closing. Body is textured and shaped for a firm grip.
- FM Approved

Cap.	Color	Material	Outside Dia.	H	Brand	Mfr. Model	Item No.	
Laboratory Faucet Cans								
1 gal.	Red	Polyethylene	7 ¼ in	11 ½ in	Justrite	14169	**3NKU4**	*
5 gal.	Red	Galvanized Steel	11 ¾ in	16 ⅞ in	Justrite	7150150	**1YNJ3**	†
5 gal.	Red	Galvanized Steel	11 ¾ in	16 ⅞ in	Justrite	7150140	**3AP88**	‡
5 gal.	Silver	Stainless Steel	11 ¼ in	15 ⅞ in	Eagle	1327	**3NKN4**	
Laboratory Faucet Cans - Type I								
2½ gal.	Red	Galvanized Steel	11 ¾ in	11 ½ in	Justrite	7225140	**5LRG2**	‡
2½ gal.	Red	Galvanized Steel	11 ¾ in	11 ½ in	Justrite	7225150	**5LRG4**	†
5 gal.	Red	Galvanized Steel	11 ¾ in	15 ⅞ in	Justrite	7150157	**3NJY9**	
Laboratory Faucet Tilt Cans - Type I								
5 gal.	Red	Galvanized Steel	11 ¾ in	15 ⅞ in	Justrite	7150156	**3NKJ4**	*†
5 gal.	Red	Galvanized Steel	11 ¾ in	15 ⅞ in	Justrite	7150146	**3NJX9**	*‡
Self-Close Acid/Corrosive Safety Cans								
1 gal.	White	Polyethylene	4 ⅝ x 7 ⅝ in	12 ¾ in	Justrite	12161	**3AW30**	
2 gal.	White	Polyethylene	12 in	15 ¼ in	Justrite	12762	**1YNJ8**	
2½ gal.	White	Polyethylene	10 ¾ in	15 ¼ in	Justrite	12260	**3NKH6**	
5 gal.	White	Polyethylene	12 in	20 in	Justrite	12765	**1AD89**	
Bottle Safety Jacket								
1 gal.	Clear	Polyethylene	6 in	14 in	Justrite	12009	**1YNJ4**	
Dispensing Squeeze Bottles								
16 oz	White	Polyethylene	3 in	7 ½ in	Justrite	14009	**5AD27**	
32 oz	White	Polyethylene	3 ½ in	9 ⅛ in	Justrite	14011	**3NKP6**	
Dispensing Bottles								
32 oz	Red	Polyethylene	4 in	10 ½ in	Justrite	14010	**2AF92**	
8 oz	Red	Polyethylene	3 ⅛ in	5 ½ in	Justrite	14004	**2AG42**	
4 oz	White	Polyethylene	2 ¼ in	5 ½ in	Justrite	14002	**3NKN6**	

** Includes metal stand. † Includes faucet for heavy industrial use.*
‡ Includes smaller faucet for dispensing in laboratories.

9PMH3

8A647

Grounding Wire

Terminated bonding and grounding wire come with clamps or clips attached at the ends to secure the wire to grounding surfaces. They help prevent buildup of static electricity to prevent damage to equipment and reduce the risk of electric shock to workers. Coiled wire retracts when not in use.

Description	Insulation Material	Insulation Color	Connector Type	Nominal O.D.	Wire Length	Terminal Screw Size	Item No.
Coiled Grounding Wire	PVC	Orange	Hand Clamp, Terminal	⅛ in	5 ft	¼ in	**9PMH3**
				³⁄₁₆ in	10 ft	¼ in	**9WN83**
				³⁄₁₆ in	20 ft	¼ in	**9RYG6**
				³⁄₁₆ in	20 ft	⁵⁄₁₆ in	**9K436**
			(2) Hand Clamps	³⁄₁₆ in	10 ft	No Terminal	**8TKU2**
Bonding and Grounding Wire	None	Bare	(2) Alligator Clips	⁵⁄₃₂ in	3 ft	No Terminal	**8A647**
	None	Bare		⁵⁄₃₂ in	5 ft	No Terminal	**9RRD0**
	None	Bare		⁵⁄₃₂ in	10 ft	No Terminal	**9EWL4**
	Vinyl	Clear		³⁄₁₆ in	10 ft	No Terminal	**8WYN0**

30PZ05

1EFN4

2NCN9

Universal Sorbent Pads

Absorb and clean up both water- and oil-based liquids. These pads lie flat under equipment, on top of workbenches, or in aisles and walkways to clean up spills such as coolants, solvents, oils, paints, grease, and other water-based liquids. The coverstock layer on some pads increases durability and reduces linting. **Ceiling tile sorbent pads** cover ceiling tiles to absorb leaks, and their leakproof backing prevents drips from staining tiles. They fit the most common sizes of ceiling tiles.

30PZ86

30PX34

Size	Volume Absorbed Per Pad	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/Pattern	Material	Includes Coverstock	Coverstock Material	Brand	Item No.
Sorbent Pads											
10 in x 13 in	12 oz	5 in x 13 in	10 gal	100	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY63**
15 in x 17 in	21 oz	7 ½ in x 17 in	17 gal	100	Bale	Gray	Polypropylene	No	—	Brady SPC	**15U853**
15 in x 19 in	23 oz	Not Perforated	9 gal	50	Bale	Gray	Polypropylene	No	—	Condor	**35ZP91**
15 in x 19 in	23 oz	Not Perforated	18 gal	100	Case	Gray	Polypropylene	No	—	Condor	**35ZP89**
15 in x 19 in	23 oz	Not Perforated	36 gal	200	Case	Gray	Polypropylene	No	—	Condor	**35ZP90**
15 in x 19 in	28 oz	7 ½ in x 19 in	22 gal	100	Case	Gray	Polypropylene	No	—	Brady SPC	**1HUC4**
15 in x 19 in	28 oz	7 ½ in x 19 in	44 gal	200	Case	Gray	Polypropylene	No	—	Brady SPC	**1HUB7**
15 in x 19 in	28 oz	Not Perforated	11 gal	50	Bale	Gray	Polypropylene	No	—	Condor	**35ZP93**
15 in x 19 in	28 oz	Not Perforated	22 gal	100	Bale	Gray	Polypropylene	No	—	Condor	**35ZP92**
15 in x 19 in	30 oz	7 ½ in x 19 in	12 gal	50	Dispenser Box	Blue	Fibers	No	—	Pig	**30PZ08**
15 in x 19 in	30 oz	7 ½ in x 19 in	24 gal	100	Box	Blue	Fibers	No	—	Pig	**30PZ05**
15 in x 19 in	30 oz	Not Perforated	24 gal	100	Case	White	Polypropylene	No	—	Brady SPC	**4DNC7**
15 in x 19 in	35 oz	Not Perforated	14 gal	50	Bale	Gray	Polypropylene	No	—	Condor	**35ZP88**
15 in x 19 in	35 oz	Not Perforated	28 gal	100	Bale	Gray	Polypropylene	No	—	Condor	**35ZP87**
15 in x 19 in	38 oz	7 ½ in x 19 in	30 gal	100	Case	Gray	Polypropylene	No	—	Brady SPC	**1HUB5**
15 in x 19 in	40 oz	Not Perforated	32 gal	100	Case	White	Polypropylene	No	—	Brady SPC	**4DNC6**
15 in x 19 in	43 oz	7 ½ in x 19 in	17 gal	50	Dispenser Box	Blue	Fibers	No	—	Pig	**30PZ03**
15 in x 19 in	43 oz	7 ½ in x 19 in	34 gal	100	Box	Blue	Fibers	No	—	Pig	**30PY99**
15 in x 19 in	51 oz	Not Perforated	40 gal	100	Case	White	Polypropylene	No	—	Brady SPC	**4DNC5**
15 in x 20 in	14 oz	10 in x 15 in	11 gal	100	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY95**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Bag	Gray	Polypropylene	No	—	Pig	**30PV61**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY92**
15 in x 20 in	22 oz	10 in x 15 in	17 gal	100	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY72**
15 in x 20 in	22 oz	10 in x 15 in	22 gal	125	Bag	Gray	Polypropylene	No	—	Pig	**30PV58**
15 in x 20 in	22 oz	10 in x 15 in	22 gal	125	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY70**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Bag	Gray	Polypropylene	No	—	Pig	**30PV56**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PV54**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Dispenser Box	Yellow	Polypropylene	No	—	Pig	**30RA04**
Sorbent Pads with Coverstock											
7 ½ in x 10 in	10 oz	Not Perforated	5 gal	100	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**42X728**
7 ½ in x 10 in	14 oz	Not Perforated	11 gal	200	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**42X729**
15 in x 19 in	19 oz	7 ½ in x 19 in	31 gal	200	Case	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**3RPA5**
15 in x 19 in	21 oz	7 ½ in x 19 in	17 gal	100	Bale	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**15U857**
15 in x 19 in	24 oz	7 ½ in x 19 in	19 gal	100	Case	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**4DNC4**
15 in x 19 in	25 oz	7 ½ in x 15 in	20 gal	100	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**1EFN4**
15 in x 19 in	25 oz	—	20 gal	100	Bale	Gray	Polypropylene	Yes	Meltblown	Condor	**436M74**
15 in x 19 in	33 oz	7 ½ in x 19 in	13 gal	50	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5TZV6**
15 in x 19 in	33 oz	7 ½ in x 19 in	26 gal	100	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ46**
15 in x 19 in	33 oz	7 ½ in x 19 in	39 gal	150	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**2NCN9** *
15 in x 19 in	33 oz	—	13 gal	50	Bale	Gray	Polypropylene	Yes	Meltblown	Condor	**436M73**
15 in x 19 in	33 oz	—	26 gal	100	Bale	Gray	Polypropylene	Yes	Meltblown	Condor	**436M72**
15 in x 19 in	40 oz	7 ½ in x 19 in	32 gal	100	Case	White	Cellulose	Yes	Meltblown	Brady SPC	**4DNC9**
15 in x 19 in	51 oz	7 ½ in x 19 in	40 gal	100	Case	White	Cellulose	Yes	Meltblown	Brady SPC	**4DNC8**
16 in x 20 in	23 oz	8 in x 20 in	18 gal	100	Dispenser Box	Gray	Polypropylene	Yes	Spunbond	Pig	**30PY76**
16 in x 20 in	33 oz	8 in x 20 in	26 gal	100	Dispenser Box	Green	Polypropylene	Yes	Spunbond	Pig	**30PZ86**
16 in x 20 in	56 oz	8 in x 20 in	22 gal	50	Dispenser Box	Gray	Polypropylene	Yes	Spunbond	Pig	**30PY55**
30 in x 30 in	104 oz	15 in x 30 in	41 gal	50	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**3RPU2**
30 in x 30 in	104 oz	—	41 gal	50	Bale	Gray	Polypropylene	Yes	Meltblown	Condor	**436M77**
Ceiling Tile Pads											
23 in x 24 in	37 oz	Not Perforated	6 gal	20	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PX34**
23 in x 48 in	75 oz	Not Perforated	6 gal	10	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PX35**

***** Dispense-N-Dispose system with a temporary waste receptacle.*

30PY47

35ZR30

5UZ30

Universal Sorbent Rolls

Perforated and nonperforated pads in rolls clean up spills such as coolants, solvents, oils, paints, and grease. Some rolls have an additional coverstock layer that increases durability and reduces linting.

Size	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/Pattern	Material	Includes Coverstock	Coverstock Material	Brand	Item No.
Sorbent Rolls										
3 ft x 5 ft	Not Perforated	4 gal	10	Roll	Black	Polypropylene	No	—	Pig	**40CH74**
3 ft x 50 ft	Not Perforated	4 gal	1	Roll	Black	Polypropylene	No	—	Pig	**40CH73**
3 ft x 50 ft	Not Perforated	4 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**45GN71**
3 ft x 100 ft	Not Perforated	8 gal	1	Roll	Black	Polypropylene	No	—	Pig	**40CH72**
3 ft x 100 ft	Not Perforated	8 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**45GN70**
3 ft x 100 ft	Not Perforated	13 gal	1	Roll	Black; Gray; Tan	Polypropylene	No	—	Pig	**30PZ40**
3 ft x 100 ft	Not Perforated	25 gal	1	Bale	Black	Polypropylene	No	—	Brady SPC	**5UZ32**
15 in x 60 ft	3 ¾ in x 10 in	7 gal	1	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY61**
15 in x 75 ft	10 in x 15 in	9 gal	1	Dispenser Box	Gray	Polypropylene	No	—	Pig	**30PY47**
15 in x 150 ft	3 ¾ in x 10 in	19 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PY62**
15 in x 150 ft	10 in x 15 in	32 gal	2	Roll	Gray	Polypropylene	No	—	Pig	**30PY89**
15 in x 150 ft	10 in x 15 in	40 gal	2	Roll	Gray	Polypropylene	No	—	Pig	**30PV72**
15 in x 150 ft	15 in x 19 in	20 gal	1	Bag	Blue	Fibers	No	—	Pig	**30PZ07**
15 in x 150 ft	15 in x 19 in	32 gal	1	Roll	Blue	Fibers	No	—	Pig	**30PZ02**
15 in x 150 ft	Not Perforated	12 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR24**
15 in x 150 ft	Not Perforated	16 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR25**
15 in x 150 ft	Not Perforated	19 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR23**
15 in x 300 ft	Not Perforated	25 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR26**
24 in x 150 ft	10 in x 12 in	32 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PV69**
30 in x 150 ft	10 in x 15 in	31 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PY71**
30 in x 150 ft	10 in x 15 in	40 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PV55**
30 in x 150 ft	15 in x 19 in	41 gal	1	Bag	Blue	Fibers	No	—	Pig	**30PZ06**
30 in x 150 ft	15 in x 19 in	64 gal	1	Roll	Blue	Fibers	No	—	Pig	**30PZ01**
30 in x 150 ft	30 in x 30 in	38 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR27**
30 in x 150 ft	31 in x 30 in	25 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR28**
30 in x 150 ft	32 in x 30 in	33 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR29**
30 in x 200 ft	10 in x 15 in	42 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PV59**
30 in x 300 ft	10 in x 15 in	40 gal	1	Roll	Gray	Polypropylene	No	—	Pig	**30PV66**
30 in x 300 ft	Not Perforated	50 gal	1	Bale	Gray	Polypropylene	No	—	Condor	**35ZR30**
Sorbent Rolls with Coverstock										
7 ½ in x 50 ft	7 ½ in x 10 in	3 gal	1	Bale	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**42X730**
14 ½ in x 150 ft	14 ½ in x 19 in	30 gal	1	Case	Gray	Cellulose	Yes	Meltblown	Brady SPC	**4DND5**
15 in x 150 ft	7 ½ in x 12 in	26 gal	1	Case	Gray Camouflage	Polypropylene	Yes	Spunbond	Brady SPC	**5UZ30**
15 in x 150 ft	15 in x 18 in	20 gal	1	Bale	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**15U874**
15 in x 150 ft	15 in x 18 in	24 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ48**
15 in x 150 ft	Not Perforated	24 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ47**
15 in x 300 ft	15 in x 15 in	32 gal	1	Bale	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**4DNA9**
16 in x 150 ft	10 in x 16 in	17 gal	1	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PV70**
16 in x 150 ft	10 in x 16 in	18 gal	1	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PY79**
16 in x 150 ft	10 in x 16 in	47 gal	2	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PZ88**
28 ½ in x 150 ft	14 ¼ in x 19 in	54 gal	1	Case	White	Cellulose	Yes	Meltblown	Brady SPC	**4DND4**
28 ½ in x 150 ft	14 ¼ in x 19 in	62 gal	1	Case	White	Cellulose	Yes	Meltblown	Brady SPC	**4DND2**
30 in x 150 ft	7 ½ in x 12 in	53 gal	1	Case	Gray Camouflage	Polypropylene	Yes	Spunbond	Brady SPC	**5UZ31**
30 in x 150 ft	15 in x 15 in	38 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**1EFN5**
30 in x 150 ft	15 in x 15 in	47 gal	1	Case	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**2GU48**
30 in x 150 ft	15 in x 15 in	49 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**1HUB9**
30 in x 150 ft	30 in x 30 in	49 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ50**
30 in x 150 ft	Not Perforated	38 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**3RRD2**
30 in x 150 ft	Not Perforated	49 gal	1	Case	Gray	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ49**
30 in x 300 ft	15 in x 15 in	63 gal	1	Bale	Gray	Polypropylene	Yes	Spunbond	Brady SPC	**2GU49**
32 in x 75 ft	10 in x 16 in	40 gal	1	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PY56**
32 in x 150 ft	10 in x 16 in	36 gal	1	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PY78**
32 in x 150 ft	10 in x 16 in	47 gal	1	Roll	Gray	Polypropylene	Yes	Spunbond	Pig	**30PZ89**

30RA78

30RA85

Universal Drum-Top Sorbent Pads

Flat, circular sorbent pads fit on top of drums to absorb and clean up both oil- and water-based liquids like coolants, solvents, oils, paints, and grease. Precut holes permit access to drum-bung holes. Eco-friendly pads are made with more than 80% recycled material.

Size	Volume Absorbed Per Pad	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/ Pattern	Material	Fits Drum Size	Brand	Item No.
Drum-Top Sorbent Pads									
18 in Dia.	25 oz	5 gal	25	Box	Gray	Polypropylene	30 gal	Pig	**30RA78**
22 in Dia.	17 oz	3 gal	25	Dispenser Box	Gray	Polypropylene	55 gal	Pig	**30RA79**
22 in Dia.	30 oz	6 gal	25	Bale	Gray	Polypropylene	55 gal	Condor	**35ZR01**
22 in Dia.	30 oz	6 gal	25	Case	Gray	Polypropylene	55 gal	Brady SPC	**5FZ83**
22 in Dia.	35 oz	7 gal	25	Dispenser Box	Gray	Polypropylene	55 gal	Pig	**30RA77**
Eco-Friendly Drum-Top Sorbent Pads									
22 in Dia.	30 oz	6 gal	25	Dispenser Box	Blue	Fibers	55 gal	Pig	**30RA85**

Universal Sorbent Socks & Booms

Tubular, flexible socks and booms conform to most shapes or uneven surfaces. They surround spills and prevent the spread of both oil- and water-based liquids. 35ZR51 has a stainless steel clip connector.

Sock
4DND6

Sock
30RC04

Sock
35ZR47

Boom
30RC14

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Composition	Color/ Pattern	Brand	Item No.
Sorbent Socks						
1 ½ in x 29 in	9 gal/pk; 0.1718 gal/sock	50	Vermiculite Filler with Polypropylene Mesh & Skin	Blue	Pig	**30RC10**
2 in x 42 in	15 gal/pk; 0.25 gal/sock	60	Corn Cob Filler with Polypropylene Mesh & Skin	Gray	Pig	**30RC03**
3 in x 8 ft	12 gal/pk; 2 gal/sock	6	Polypropylene Filler with Polypropylene Skin	Gray	Brady SPC	**5FZ78**
3 in x 8 ft	12 gal/pk; 2 gal/sock	6	Cellulose & Recycled Paper Blend Filler with Spunbound Polypropylene Mesh & Skin	Brown	Brady SPC	**4DND7**
3 in x 8 ft	13 gal/pk; 0.8593 gal/sock	16	Corn Cob Filler with Polypropylene Mesh & Skin	Gray	Pig	**30RC04**
3 in x 10 ft	10 gal/pk; 2.5 gal/sock	4	Polypropylene Filler	Gray	Condor	**35ZR45**
3 in x 10 ft	14 gal/pk; 1 gal/sock	8	Vermiculite Filler with Polypropylene Mesh & Skin	Blue	Pig	**30RC12**
3 in x 10 ft	30 gal/pk; 2.5 gal/sock	12	Polypropylene Filler with Spunbound Polypropylene Skin	Gray	Condor	**35ZR46**
3 in x 12 ft	12 gal/pk; 3 gal/sock	4	Polypropylene Filler	Gray	Brady SPC	**5FZ79**
3 in x 12 ft	12 gal/pk; 3 gal/sock	4	Cellulose & Recycled Paper Blend Filler with Spunbound Polypropylene Mesh & Skin	Brown	Brady SPC	**4DND8**
3 in x 20 ft	10 gal/pk; 5 gal/sock	2	Polypropylene Filler with Polypropylene Skin	Gray	Condor	**35ZR47**
3 in x 42 in	20 gal/pk; 0.5 gal/sock	40	Corn Cob Filler with Polypropylene Mesh & Skin	Gray	Pig	**30PV67**
3 in x 42 in	20 gal/pk; 0.5 gal/sock	40	Corn Cob Filler	Gray	Brady SPC	**5UZ75**
3 in x 48 in	4 gal/pk; 1 gal/sock	4	Polypropylene Filler with Polypropylene Skin	Gray	Condor	**35ZR48**
3 in x 48 in	9 gal/pk; 0.7421 gal/sock	12	Vermiculite Filler with Polypropylene Mesh & Skin	Blue	Pig	**30RC15**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Polypropylene Filler with Polypropylene Skin	Gray	Condor	**35ZR49**
3 in x 48 in	12 gal/pk; 1 gal/sock	12		Gray	Brady SPC	**5FZ77**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Cellulose & Recycled Paper Blend Filler with Spunbound Polypropylene Mesh & Skin	Brown	Brady SPC	**4DND6**
3 in x 48 in	30 gal/pk; 0.75 gal/boom	40	Polypropylene Filler with Polypropylene Mesh & Skin	Gray	Pig	**30RC22**
3 in x 48 in	40 gal/pk; 1 gal/sock	40	Polypropylene Filler with Polypropylene Skin	Gray	Condor	**35ZR50**
3 in x 48 in	40 gal/pk; 1 gal/sock	40	Cellulose & Recycled Paper Blend Filler with Spunbound Polypropylene Mesh & Skin	Brown	Brady SPC	**5UZ52**
Sorbent Booms						
5 in x 10 ft	32 gal/pk; 8 gal/boom	4	Polypropylene Filler	Gray	Condor	**35ZR51**
5 in x 10 ft	32 gal/pk; 8 gal/sock	4	Vermiculite Filler with Polypropylene Mesh & Skin	Blue	Pig	**30RC14**
8 in x 10 ft	65 gal/pk; 16.25 gal/boom	4	Polypropylene Filler	Gray	Condor	**35ZR52**

Universal Sorbent Floor Mats

- Flame-resistant (except 5UZ62)

Sorbent mats absorb leaks, drips, oils, coolants, and solvents along walkways, under workstations, and in industrial settings. Mats with adhesive backing won't shift or slide and help minimize the risk of slips, trips, and falls.

1AD80

30PZ35

5UZ62

Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/ Pattern	Material	Adhesive Backing	Brand	Item No.
Heavy Traffic								
3 ft x 100 ft	13 gal	1	Roll	Black	Polypropylene	No	Pig	**30PV82**
24 in x 300 ft	26 gal	1	Roll	Black		No	Pig	**30PZ57**
3 ft x 300 ft	59 gal	1	Bale	Gray		No	Brady SPC	**1AD80**
6 ft x 300 ft	59 gal	1	Bale	Gray		No	Brady SPC	**15U887**
Medium Traffic								
16 in x 24 in	1 gal	10	Pads	Blue	Polyester, Polypropylene	Yes	Pig	**30PZ35**
16 in x 25 ft	1 gal	1	Roll	Blue		Yes	Pig	**30PZ32**
16 in x 50 ft	2 gal	1	Roll	Blue		Yes	Pig	**30PZ34**
32 in x 50 ft	5 gal	1	Roll	Blue		Yes	Pig	**30PZ41**
32 in x 100 ft	10 gal	1	Roll	Blue		Yes	Pig	**30PZ37**
Light Traffic								
36 in x 150 ft	55 gal	1	Bale	Blue; Gray	Cotton, Polyester	No	Brady SPC	**5UZ62**

Universal Sorbent Pillows

An outer liner filled with absorbent material soaks up both oil- and water-based liquids. These pillows fit under machinery, in spill trays, or in hard-to-reach areas to clean up spills and minimize slips and falls. Gray color.

35ZR13

5UZ29

30RC73

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Pkg. Type	Composition	Brand	Item No.
8 ½ in x 17 in	8 gal/pk; 1.6 gal/pillow	5	Bag	Polypropylene Filler and Skin	Condor	**35ZR16**
8 ½ in x 17 in	18 gal/pk; 1.8 gal/pillow	10	Case		Condor	**35ZR14**
8 ½ in x 17 in	36 gal/pk; 1.8 gal/pillow	20	Case		Condor	**35ZR15**
10 in x 10 in	20 gal/pk; 0.5 gal/pillow	40	Box	Cellulose Filler with Polypropylene Skin	Pig	**30RC74**
17 in x 21 in	10 gal/pk; 2 gal/pillow	5	Case	Polypropylene Filler and Skin	Condor	**35ZR13**
17 in x 21 in	20 gal/pk; 2 gal/pillow	10	Case		Condor	**35ZR11**
17 in x 21 in	32 gal/pk; 3 gal/pillow	16	Box	Cellulose Filler with Polypropylene Skin	Pig	**30RC73**
17 in x 21 in	41 gal/pk; 2.05 gal/pillow	20	Case	Polypropylene Filler and Skin	Condor	**35ZR12**
18 in x 18 in	28 gal/pk; 1.75 gal/pillow	16	Case		Brady SPC	**5UZ29**

Universal Loose & Granular Sorbents

437J91

30RC91

35UX86

15U827

30RD13

44Z111

These powdered or granulated materials absorb oils, acids, paints, inks, water, and other liquids when sprinkled over spills. They clean up spills on floors and uneven or cracked surfaces to minimize the risk of falls. Once liquids are absorbed, the material can be swept up. **Food Grade Loose Absorbent**—NSF J1 certified for use in food production facilities.

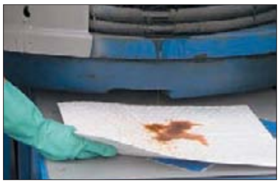
Composition Detail	Volume Absorbed per Pkg.	Weight	Container Type	Features	Brand	Item No.	Pkg. Qty.
Absorbent Powder							
Amorphous Alumina Silicate	1 gal	4 lb	Pail	Residue Free	Spill Magic	**437J94**	1
Amorphous Alumina Silicate	3 gal	11 lb	Bag	Spill Control - Fluids Absorbed : Universal	Spill Magic	**437J96**	12
Amorphous Alumina Silicate	8 gal	25 lb	Box	Non-Toxic, Quick and Easy to Use	Spill Magic	**437J90**	1
Amorphous Alumina Silicate	9 gal	30 lb	Bag	Ideal for Tough Outdoor Spills, Ideal for Windy Conditions, Non-Toxic	Spill Magic	**437J97**	1
Perlite	1 gal	3 lb	Bottle	Non-Toxic, Quick and Easy to Use	Spill Magic	**437J98**	1
Perlite	3 gal	10 lb	Bag	Non-Toxic	Spill Magic	**437J92**	1
Perlite	4 gal	15 lb	Bag		Spill Magic	**437J93**	1
Perlite	8 gal	25 lb	Bag		Spill Magic	**437J91**	1
Lemon Scented Absorbent Powder							
Amorphous Alumina Silicate	0 gal	1.5 lb	Shaker Bottle	Non-Toxic	Spill Magic	**467F91**	6
Amorphous Alumina Silicate	0 gal	1.5 lb	Shaker Bottle		Spill Magic	**467F92**	6
Loose Absorbent							
Attapulgite Clay	2 gal	20 lb	Pail	Smaller Granules Absorb Quicker with Far Less Product	Oil-Dri	**5TP99**	1
Cellulose	8 gal	22 lb	Bag	3X More Absorbent than Clay, Easier to Lift, Lighter to Carry	Pig	**30RC91** *†‡	1
Cellulose, Kaolin	3 gal	20 lb	Box	Light Weight Absorbent is Easier than Clay to Carry and Use Without Injury	Pig	**30RC96** *†	4
Cellulose, Kaolin	5 gal	40 lb	Bag		Pig	**30RC93** *†	1
Corncob	13 gal	25 lb	Bag		Pig	**30RC94** *	1
Montmorillonite Clay	1 gal	8 lb	Bag	Formulated to Maximize Absorption and Minimize Dust	Oil-Dri	**24X070**	1
Montmorillonite Clay	2 gal	25 lb	Bag	—	Condor	**35UX85**	1
Montmorillonite Clay	3 gal	25 lb	Bag	Smaller Granules Absorb Quicker with Far Less Product	Oil-Dri	**24X071**	1
Montmorillonite Clay	3 gal	40 lb	Bag	—	Condor	**35UX86**	1
Montmorillonite Clay	4 gal	50 lb	Bag		Condor	**35UX87**	1
Paper	16 gal	30 lb	Bag	Safe for the Environment and Employee Use	Brady SPC	**15U827** †	1
Perlite	8 gal	11 lb	Bag	Easy to Use, Light Weight, Specially Formulated to Minimize Dust	Pig	**30RC97** ‡	1
Perlite	50 gal	11 lb	Bag		Pig	**30RC98** ‡	50
Vermiculite	5 gal	18 lb	Bag	Made of 100% Chemically Inert	Pig	**30RD13**	1
Food Grade Loose Absorbent							
Diatomaceous Earth	10 qt	25 lb	Bag	100% Natural Mineral	Ep Minerals	**6RKJ5**	1
Montmorillonite Clay	3 gal	36 lb	Bag	Formulated to Maximize Absorption and Minimize Dust	Oil-Dri	**487F13**	1
Perlite	0 gal	1 lb	Bag	Leaving a Dry and Residue-Free Surface, Lighter	Chemsorb	**503Y58** *	1
Perlite	2 gal	4 lb	Bag		Chemsorb	**503Y61** *	1
Perlite	2 gal	5 lb	Pail		Chemsorb	**503Y62** *	1
Drying Agents & Field Conditioners for Athletic Fields							
Montmorillonite Clay	5 gal	50 lb	Bag	Keeps Sports Field Playing Surface Soil in Condition For Play	Oil-Dri	**44Z110**	1
Montmorillonite Clay	6 gal	50 lb	Bag	Drying Agent's Sand Like Granules Wick Away Excess Water Quickly from the Infield	Oil-Dri	**44Z111**	1

** Silica free. † Incinerable. ‡ Nonabrasive.*

Oil-Only Sorbent Pads

30RA41

30RA30



30PV57

Absorb and clean up oil-based liquids while repelling water. Flat pads fit under equipment, on top of workbenches, in aisles and walkways to clean up incidental spills such as transformer oil, vehicle fluids, grease, petroleum, and other oil-based solvents. Water-repellency makes them suitable for outdoor use. White color draws attention to machine leaks and shows saturation level during spill response. The coverstock layer on some pads increases durability and reduces linting.

Size	Volume Absorbed Per Pad	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Material	Includes Coverstock	Coverstock Material	Brand	Item No.
Sorbent Pads										
15 in x 19 in	19 oz	7 ½ in x 19 in	30 gal	100	Bale	Polypropylene	No	—	Brady SPC	**2NCN3**
15 in x 19 in	26 oz	Not Perforated	21 gal	100	Bale	Polypropylene	No	—	Condor	**35ZR06**
15 in x 19 in	27 oz	Not Perforated	43 gal	200	Bale	Polypropylene	No	—	Condor	**35ZR07**
15 in x 19 in	28 oz	Not Perforated	11 gal	50	Bale	Polypropylene	No	—	Condor	**35ZR08**
15 in x 19 in	29 oz	Not Perforated	23 gal	100	Bale	Polypropylene	No	—	Brady SPC	**1HUB3**
15 in x 19 in	30 oz	Not Perforated	24 gal	100	Bale	Polypropylene	No	—	Brady SPC	**1HUC2**
15 in x 19 in	32 oz	7 ½ in x 19 in	51 gal	200	Bale	Polypropylene	No	—	Brady SPC	**2NCN2**
15 in x 19 in	32 oz	Not Perforated	51 gal	200	Bale	Polypropylene	No	—	Brady SPC	**1HUB1**
15 in x 19 in	33 oz	Not Perforated	13 gal	50	Bale	Polypropylene	No	—	Condor	**35ZR10**
15 in x 19 in	33 oz	Not Perforated	26 gal	100	Bale	Polypropylene	No	—	Condor	**35ZR09**
15 in x 19 in	40 oz	Not Perforated	16 gal	50	Bale	Polypropylene	No	—	Condor	**35ZR05**
15 in x 19 in	42 oz	Not Perforated	33 gal	100	Bale	Polypropylene	No	—	Brady SPC	**1HUA8**
15 in x 19 in	42 oz	Not Perforated	33 gal	100	Bale	Polypropylene	No	—	Condor	**35ZR04**
15 in x 19 in	44 oz	7 ½ in x 19 in	35 gal	100	Bale	Polypropylene	No	—	Brady SPC	**2NCN1**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Bag	Polypropylene	No	—	Pig	**30PV64**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Dispenser Box	Polypropylene	No	—	Pig	**30RA41**
15 in x 20 in	21 oz	10 in x 15 in	17 gal	100	Bag	Polypropylene	No	—	Pig	**30RA31**
15 in x 20 in	21 oz	10 in x 15 in	17 gal	100	Dispenser Box	Polypropylene	No	—	Pig	**30RA30**
15 in x 20 in	28 oz	10 in x 15 in	11 gal	50	Bag	Polypropylene	No	—	Pig	**30RA15**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Bag	Polypropylene	No	—	Pig	**30PV57**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Dispenser Box	Polypropylene	No	—	Pig	**30PV60**
30 in x 30 in	85 oz	15 in x 30 in	33 gal	50	Bag	Polypropylene	No	—	Pig	**30RA18**
30 in x 30 in	128 oz	Not Perforated	50 gal	50	Bale	Polypropylene	No	—	Brady SPC	**5UZ40**
Sorbent Pads with Coverstock										
7 ½ in x 10 in	6 oz	Not Perforated	5 gal	100	Case	Polypropylene	Yes	Meltblown	Brady SPC	**42X734**
7 ½ in x 10 in	14 oz	Not Perforated	11 gal	200	Case	Polypropylene	Yes	Meltblown	Brady SPC	**42X735**
15 in x 19 in	19 oz	7 ½ in x 19 in	31 gal	200	Case	Polypropylene	Yes	Spunbond	Brady SPC	**2GU47**
15 in x 19 in	24 oz	7 ½ in x 19 in	19 gal	100	Case	Polypropylene	Yes	Spunbond	Brady SPC	**2GU46**
15 in x 19 in	33 oz	7 ½ in x 19 in	26 gal	100	Case	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ57**
15 in x 19 in	49 oz	7 ½ in x 19 in	39 gal	100	Case	Cellulose	Yes	Meltblown	Brady SPC	**5DFL5**
15 in x 19 in	66 oz	7 ½ in x 19 in	26 gal	50	Case	Polypropylene	Yes	Meltblown	Brady SPC	**5TZW3**
30 in x 30 in	104 oz	15 in x 30 in	41 gal	50	Case	Polypropylene	Yes	Meltblown	Brady SPC	**3RPU4**

30RA19

30RA17

30RA27

5UZ59

30PZ79

Oil-Only Sorbent Rolls

- Polypropylene material

Perforated or nonperforated sorbent rolls absorb oil-based liquid spills but repel water. Clean up incidental spills including transformer oil, vehicle fluids, grease, petroleum, and other oil-based solvents. White color contrasts with spill colors and saturation level to draw attention to leaks. Coverstock layer increases durability and reduces linting. Pig 4-in-1 30PZ80 and 30PZ79 are perforated with scored underside for shaping into a pad, roll, sock, or wiper. 30RA27 has a leak-resistant, polypropylene backing.

Size	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Includes Coverstock	Coverstock Material	Brand	Item No.
Sorbent Rolls								
3 ft x 144 ft	Not Perforated	70 gal	1	Bale	No	—	Brady SPC	**2AJ14**
10 in x 100 ft	10 in x 10 in	9 gal	2	Dispenser Box	No	—	Pig	**30RA37**
15 in x 60 ft	3 ¾ in x 10 in	8 gal	1	Dispenser Box	No	—	Pig	**30RA19**
15 in x 150 ft	3 ¾ in x 10 in	19 gal	1	Roll	No	—	Pig	**30RA20**
15 in x 150 ft	10 in x 15 in	16 gal	1	Roll	No	—	Pig	**30RA29**
15 in x 150 ft	10 in x 15 in	40 gal	2	Roll	No	—	Pig	**30RA17**
15 in x 150 ft	Not Perforated	16 gal	1	Bale	No	—	Condor	**35ZR39**
15 in x 150 ft	Not Perforated	19 gal	1	Bale	No	—	Condor	**35ZR37**
15 in x 300 ft	Not Perforated	25 gal	1	Bale	No	—	Condor	**35ZR40**
24 in x 150 ft	10 in x 12 in	32 gal	1	Roll	No	—	Pig	**30RA16**
30 in x 150 ft	10 in x 15 in	20 gal	1	Roll	No	—	Pig	**30RA39**
30 in x 150 ft	10 in x 15 in	32 gal	1	Roll	No	—	Pig	**30RA32**
30 in x 150 ft	10 in x 15 in	40 gal	1	Roll	No	—	Pig	**30PV62**
30 in x 150 ft	30 in x 30 in	38 gal	1	Bale	No	—	Brady SPC	**15U870**
30 in x 150 ft	Not Perforated	25 gal	1	Bale	No	—	Condor	**35ZR42**
30 in x 150 ft	Not Perforated	33 gal	1	Bale	No	—	Condor	**35ZR43**
30 in x 150 ft	Not Perforated	38 gal	1	Bale	No	—	Condor	**35ZR41**
30 in x 150 ft	Not Perforated	44 gal	1	Bale	No	—	Brady SPC	**5UZ36**
30 in x 200 ft	10 in x 15 in	42 gal	1	Roll	No	—	Pig	**30RA34**
30 in x 300 ft	10 in x 15 in	40 gal	1	Roll	No	—	Pig	**30RA36**
30 in x 300 ft	Not Perforated	50 gal	1	Bale	No	—	Condor	**35ZR44**
31 in x 75 ft	Not Perforated	20 gal	1	Roll	No	—	Pig	**30RA27**
Sorbent Rolls with Coverstock								
15 in x 50 ft	15 in x 18 in	12 gal	1	Case	Yes	Meltblown	Brady SPC	**5TZX1**
15 in x 150 ft	7 ½ in x 12 in	24 gal	1	Case	Yes	Meltblown	Brady SPC	**3RPW1**
15 in x 150 ft	15 in x 18 in	18 gal	1	Case	Yes	Spunbond	Brady SPC	**3RPA2**
15 in x 150 ft	15 in x 18 in	19 gal	1	Case	Yes	Meltblown	Brady SPC	**15U871**
15 in x 150 ft	15 in x 18 in	24 gal	1	Case	Yes	Meltblown	Brady SPC	**5UZ59**
15 in x 150 ft	—	24 gal	1	Bale	Yes	Meltblown	Condor	**436M84**
16 in x 80 ft	10 in x 16 in	9 gal	1	Dispenser Box	Yes	Spunbond	Pig	**30PZ80**
16 in x 150 ft	10 in x 16 in	17 gal	1	Roll	Yes	Spunbond	Pig	**30PZ79**
30 in x 150 ft	15 in x 15 in	37 gal	1	Case	Yes	Spunbond	Brady SPC	**3RPA3**
30 in x 150 ft	15 in x 15 in	38 gal	1	Case	Yes	Meltblown	Brady SPC	**42X778**
30 in x 150 ft	15 in x 15 in	49 gal	1	Case	Yes	Meltblown	Brady SPC	**3RPW2**
30 in x 150 ft	30 in x 30 in	49 gal	1	Case	Yes	Meltblown	Brady SPC	**5UZ61**
30 in x 150 ft	—	49 gal	1	Bale	Yes	Meltblown	Condor	**436M87**
30 in x 150 ft	Not Perforated	49 gal	1	Case	Yes	Meltblown	Brady SPC	**3RPU3**
30 in x 200 ft	—	38 gal	1	Bale	Yes	Meltblown	Brady SPC	**42X806**
32 in x 75 ft	10 in x 16 in	40 gal	1	Roll	Yes	Spunbond	Pig	**30RA11**

5UZ34

30RA81

Oil-Only Drum-Top Sorbent Pads

Water-repellent circular pads absorb oil-based liquid spills on top of drums. These white, polypropylene pads have precut holes for access to drum-bung holes.

Size	Volume Absorbed Per Pad	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/ Pattern	Material	Fits Drum Size	Brand	Item No.
22 in Dia.	30 oz	6 gal	25	Bale	White	Polypropylene	55 gal	Condor	**35ZR03**
22 in Dia.	30 oz	6 gal	25	Bale	Gray	Polypropylene	55 gal	Condor	**35ZR02**
22 in Dia.	30 oz	6 gal	25	Case	White	Polypropylene	55 gal	Brady SPC	**5UZ34**
22 in Dia.	36 oz	7 gal	25	Dispenser Box	White	Polypropylene	55 gal	Pig	**30RA81**

5UZ55

35ZR65

5TZW5

436N20

30RC25

Oil-Only Sorbent Socks & Booms

Flexible, tube-shaped socks and booms surround, absorb, and clean up oil-based liquid spills. They conform to uneven surfaces or float on top of water. **Spaghetti sorbent booms** have a mesh skin and spaghetti-strip filter. They contain and absorb thick oils and other viscous liquids floating in water.

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Composition	Connector Type	Color/ Pattern	Brand	Item No.
Sorbent Socks							
3 in x 42 in	30 gal/pk; 1 gal/sock	30	Cellulose Filler with Polypropylene Mesh & Skin	Rope	Tan	Pig	**30RC55**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Polypropylene Filler with Polypropylene Skin	—	White	Brady SPC	**5UZ55**
3 in x 48 in	15 gal/pk; 1.25 gal/sock	12	Cotton Filler with Spunbound Polyester Skin	—	White	Brady SPC	**5DFL8**
3 in x 48 in	28 gal/pk; 0.9 gal/sock	30	Polypropylene Filler	—	White	Brady SPC	**3RPV6**
3 in x 8 ft	12 gal/pk; 2 gal/sock	6	Polypropylene Filler with Polypropylene Skin	—	White	Brady SPC	**5UZ56**
3 in x 10 ft	10 gal/pk; 2.5 gal/sock	4	Polypropylene Filler	—	Black, White	Condor	**35ZR60**
3 in x 10 ft	10 gal/pk; 2.5 gal/sock	4		—	Green	Condor	**35ZR53**
3 in x 10 ft	30 gal/pk; 2.5 gal/sock	12		—	Black, White	Condor	**35ZR61**
3 in x 10 ft	30 gal/pk; 2.5 gal/sock	12		—	Green	Condor	**35ZR54**
3 in x 12 ft	12 gal/pk; 3 gal/sock	4	Polypropylene Filler with Polypropylene Skin	—	White	Brady SPC	**5UZ53**
3 in x 20 ft	10 gal/pk; 5 gal/sock	2		—	Black, White	Condor	**35ZR62**
3 in x 20 ft	10 gal/pk; 5 gal/sock	2		—	Green	Condor	**35ZR55**
3 in x 48 in	4 gal/pk; 1 gal/sock	4		—	Black, White	Condor	**35ZR63**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Polypropylene Filler	—	Black, White	Condor	**35ZR64**
Sorbent Booms							
5 in x 10 ft	32 gal/pk; 8 gal/boom	4	Polypropylene Filler	Clip	Blue	Brady SPC	**42X764**
5 in x 10 ft	32 gal/pk; 8 gal/boom	4		Clip	Blue, White	Condor	**35ZR65**
5 in x 10 ft	32 gal/pk; 8 gal/boom	4		Ring	White	Brady SPC	**6AJ11**
8 in x 10 ft	65 gal/pk; 16.25 gal/boom	4		—	Blue	Brady SPC	**5UZ41**
8 in x 10 ft	65 gal/pk; 16.25 gal/boom	4		—	Blue, White	Condor	**35ZR66**
8 in x 10 ft	71 gal/pk; 17.75 gal/boom	4		—	White	Brady SPC	**3AH21**
Sorbent Double Booms							
5 in x 10 ft	32 gal/pk; 16 gal/boom	2	Polypropylene Filler	Clip	White	Brady SPC	**5TZW5**
Bilge Booms							
8 in x 18 in	28 gal/pk; 7 gal/boom	4	Polypropylene Filler with Polypropylene Skin	Metal Clip	White	Brady SPC	**436N20**
Spaghetti Sorbent Booms							
3 in x 10 ft	16 gal/pk; 2 gal/boom	8	Polypropylene Filler with Polyester Mesh & Skin	Ring	White	Pig	**30RC25**
5 in x 10 ft	24 gal/pk; 6 gal/boom	4		Ring	White	Pig	**30RC24**
8 in x 10 ft	48 gal/pk; 12 gal/boom	4		Ring	White	Pig	**30RC23**
8 in x 20 ft	48 gal/pk; 24 gal/boom	2		Ring	White	Pig	**30RC28**

30RC52

30RC59

Oil-Only Skimmers

White skimmers float on top of water and absorb oil and oil-based liquids while repelling water.

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Composition	Connector Type	Item No.
Skimmer Socks					
3 in x 10 ft	15 gal/pk; 2 gal/sock	6	Polypropylene Filler with Polypropylene Mesh & Skin	Rope	**30RC53**
3 in x 48 in	10 gal/pk; 1 gal/sock	10		No Connector	**30RC52**
Sump Skimmers					
3 in x 18 in	9 gal/pk; 0.375 gal/sock	25	Polypropylene Filler with Polypropylene Mesh & Skin	Rope	**30RC59**
3 in x 30 in	9 gal/pk; 0.6328 gal/sock	15		Rope	**30RC56**

30RA94

Oil-Only Sorbent Ground Mats

UV-resistant, reusable mats absorb leaks and drips outside and prevent oil-based liquids from soaking into the ground. These mats have a durable bottom layer and withstand heavy foot traffic. Black color.

Size	Volume Absorbed Per Pad	Pkg. Qty.	Pkg. Type	Material	Backing Material	Item No.
5 ft x 60 in	3 gal	1	Box	Polyethylene, Polypropylene	Polyethylene	**30RA93**
5 ft x 80 ft	6,144 gal	1	Box			**30RA97**
10 ft x 10 ft	12 gal	1	Box			**30RA94**

5UZ54

30RC78

Oil-Only Sorbent Pillows

These pillows are thicker and soak up more oil-based liquids than sorbent pads or rolls. The polypropylene filler and skin repel water and absorb oil-based spills under machinery and in spill trays. They wedge into hard-to-reach areas or float on water. White color.

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Pkg. Type	Brand	Item No.
8 ½ in x 17 in	8 gal/pk; 1.6 gal/pillow	5	Case	Condor	**35ZR22**
8 ½ in x 17 in	18 gal/pk; 1.8 gal/pillow	10	Case	Condor	**35ZR20**
12 in x 12 in	5 gal/pk; 0.5 gal/pillow	10	Box	Pig	**30RC81**
16 in x 17 in	10 gal/pk; 1 gal/pillow	10	Box	Pig	**30RC78**
18 in x 18 in	28 gal/pk; 1.75 gal/pillow	16	Case	Brady SPC	**5UZ54**

2VYX1

30RD01

3RPP6

30RC99

449V71

30RD07

Oil-Only Loose & Granular Sorbents

Powdered materials clean up and absorb oil-based liquid spills on floors and uneven or cracked surfaces. Once the liquids are absorbed, the material can be swept up.

Composition Detail	Volume Absorbed per Pkg.	Weight	Container Type	Features	Brand	Item No.		Pkg. Qty.
Loose Absorbent								
Cellulose	4 gal	10 lb	Bag	Recycled Cellulose Repels Water While Absorbing Only Oil Based Liquids	Pig	**30RD02**	*†	1
Cellulose	6 gal	20 lb	Box	Environmentally Preferable	Ability One	**56HC12**		1
Cellulosic Fiber	6 gal	30 lb	Bag	Absorbs 2 to 6 gal Per Package, Biodegradable	Brady SPC	**2VYX1**		1
Cellulose	8 gal	22 lb	Bag	Recycled Cellulose Repels Water While Absorbing Only Oil Based Liquids	Pig	**30RD01**	*†	1
Corncob	8 gal	40 lb	Bag	—	Brady SPC	**3RPP6**	*‡	1
Industrial Peat Moss	8 gal	11 lb	Bag	Light Weight Absorbent is Easier than Clay to Carry and Use Without Injury	Pig	**30RC99**	*†‡	1
Polypropylene	8 gal	5 lb	Bag	Can Be Used to Clean Up Spills on Calm Water Confined by Booms or Socks	Pig	**30RD03**	*†‡	1
Polypropylene	17 gal	20 lb	Bottle	Reduces Toxic/Flammable Vapors by Up to 600x	ENPAC	**6FJJ2**		1
Inert, Organic	18 gal	—	Bag	Effective Anywhere, Multi Functional, Non Leaching, Non Toxic	Zep	**449V71**	†	3
Loose Absorbent—Solidifier								
Co-Polymer Proprietary Blend	8 gal	11 lb	Box	High BTU Value Produces Less than 01% Ash Content When Burned	Pig	**30RD07**	*†‡	4

Silica free. † Nonabrasive. ‡ Incinerable.

55VE34

30RA50

35ZR34

5UZ76

5TZV9

Harsh Chemical Sorbent Pads & Rolls

Absorb and clean up harsh chemical liquid spills like sulfuric acid, hydrochloric acid, or sodium hydroxide. These sorbents won't degrade or react when in contact with harsh chemicals. Pads fit under and around machinery, and they soak up spills on workbenches, walkways, or floors. Pads and rolls with coverstock have an additional layer that increases durability and reduces linting.

Size	Volume Absorbed Per Pad	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/Pattern	Material	Includes Coverstock	Coverstock Material	Brand	Item No.
Acid Neutralizing Sorbent Pads											
11 in x 12 in	3 oz	Not Perforated	1 gal	25	Box	Pink	Alizarin, Polypropylene, Sodium Carbonate	No	—	Pig	**30RA91**
Base Neutralizing Sorbent Pads											
11 in x 12 in	3 oz	Not Perforated	1 gal	25	Box	White	Citric Acid, Polymer, Polypropylene, Thymol Blue	No	—	Pig	**30RA92**
Clean Room Sorbent Pads											
12 in x 12 in	5 oz	Not Perforated	2 gal	50	Box	White	Polypropylene	No	—	Spilfyter	**3NMR6**
12 in x 12 in	10 oz	Not Perforated	2 gal	25	Box	White	Polypropylene	Yes	Spunbond	Spilfyter	**3NMR7**
12 in x 12 in	15 oz	Not Perforated	6 gal	50	Box	Yellow	Polypropylene	Yes	Spunbond	Spilfyter	**3NMR4**
Formaldehyde Neutralizing Sorbent Pads											
16 in x 20 in	23 oz	Not Perforated	4 gal	25	Dispenser Box	Blue	Polypropylene	No	—	Pig	**55VE34**
Sorbent Pads											
10 in x 13 in	12 oz	5 in x 13 in	9 gal	100	Dispenser Box	Pink	Polypropylene	No	—	Pig	**30RA59**
15 in x 19 in	17 oz	Not Perforated	7 gal	50	Bale	Yellow	Polypropylene	No	—	Condor	**35ZP97**
15 in x 19 in	17 oz	Not Perforated	14 gal	100	Bale	Yellow	Polypropylene	No	—	Condor	**35ZP96**
15 in x 19 in	23 oz	Not Perforated	9 gal	50	Bale	Yellow	Polypropylene	No	—	Condor	**35ZP99**
15 in x 19 in	23 oz	Not Perforated	18 gal	100	Bale	Yellow	Polypropylene	No	—	Condor	**35ZP98**
15 in x 19 in	28 oz	Not Perforated	11 gal	50	Bale	Yellow	Polypropylene	No	—	Condor	**35ZP95**
15 in x 19 in	28 oz	Not Perforated	22 gal	100	Case	Yellow	Polypropylene	No	—	Condor	**35ZP94**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Bag	Pink	Polypropylene	No	—	Pig	**30RA50**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Bag	Pink	Polypropylene	No	—	Pig	**30PV65**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Dispenser Box	Pink	Polypropylene	No	—	Pig	**30RA61**
Sorbent Pads with Coverstock											
7 ½ in x 10 in	6 oz	Not Perforated	5 gal	100	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**42X731**
7 ½ in x 10 in	6 oz	Not Perforated	11 gal	200	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**42X732**
12 in x 12 in	12 oz	Not Perforated	20 gal	200	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ77**
15 in x 19 in	25 oz	7 ½ in x 19 in	20 gal	100	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ78**
Sorbent Pads with Printed Message											
15 in x 19 in	28 oz	7 ½ in x 19 in	22 gal	100	Resealable Bag	Black; Red; Yellow	Polypropylene	Yes	Spunbond	Brady SPC	**2NCN4**
Sorbent Rolls											
15 in x 150 ft	—	Not Perforated	20 gal	1	Bale	Yellow	Polypropylene	No	—	Condor	**35ZR31**
30 in x 150 ft	5,145 oz	10 in x 15 in	40 gal	1	Roll	Pink	Polypropylene	No	—	Pig	**30RA52**
30 in x 150 ft	—	Not Perforated	40 gal	1	Bale	Yellow	Polypropylene	No	—	Condor	**35ZR34**
Sorbent Rolls with Coverstock											
15 in x 150 ft	—	7 ½ in x 12 in	39 gal	2	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**5UZ76**
30 in x 150 ft	—	15 in x 15 in	39 gal	1	Case	Green	Polypropylene	Yes	Meltblown	Brady SPC	**3NMP7**
Sorbent Rolls with Printed Message											
15 in x 300 ft	—	15 in x 18 in	20 gal	1	Case	Black; Red; Yellow	Polypropylene	Yes	Spunbond	Brady SPC	**5TZV9**
30 in x 150 ft	—	15 in x 15 in	40 gal	1	Case	Black; Red; Yellow	Polypropylene	Yes	Spunbond	Brady SPC	**2NCN5**

5UZ45

30RC48

35ZR56

3NMP8

Harsh Chemical Sorbent Socks & Booms

Surround harsh chemical liquid spills and prevent them from spreading. Tubular, flexible socks and booms conform to many shapes and absorb spills on uneven surfaces.

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Composition	Connector Type	Color/ Pattern	Series	Brand	Item No.
Sorbent Socks								
3 in x 42 in	9 gal/pk; 0.7812 gal/sock	12	Polypropylene Filler with Polypropylene Mesh & Skin	No Connector	Pink	—	Pig	**30RC46**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Polypropylene Filler with Polypropylene Skin	—	Green	HAZWIK	Brady SPC	**5UZ45**
3 in x 10 ft	12 gal/pk; 2 gal/sock	6	Polypropylene Filler with Polypropylene Mesh & Skin	No Connector	Pink	PIG	Pig	**30RC48**
3 in x 12 ft	12 gal/pk; 3 gal/sock	4	Polypropylene Filler with Polypropylene Skin	—	Green	HAZWIK	Brady SPC	**5TZW0**
3 in x 48 in	4 gal/pk; 1 gal/sock	4		—	Green	—	Condor	**35ZR56**
3 in x 48 in	12 gal/pk; 1 gal/sock	12		—	Green	—	Condor	**35ZR57**
Sorbent Booms								
5 in x 10 ft	18 gal/pk; 9 gal/sock	2	Polypropylene Filler with Polypropylene Mesh & Skin	No Connector	Pink	HA	Pig	**30RC47**
5 in x 10 ft	32 gal/pk; 8 gal/boom	4	Polypropylene Filler	Clip	Gray	—	Brady SPC	**3NMP8**
8 in x 10 ft	71 gal/pk; 17.75 gal/boom	4		Clip	Green	—	Brady SPC	**3NMP9**

436M82

3NMR3

30RC85

Harsh Chemical Sorbent Pillows

Soak up acids, bases, and unknown chemical spills. Pillows have a larger surface area and higher capacity than pads, rolls, and socks, so they absorb more liquid and help minimize slips and falls. 30RC89 neutralizes acids, bringing pH levels to 7 or neutral. Its color changes to indicate the presence of acid and when the pillow is safe to handle.

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Pkg. Type	Composition	Color/ Pattern	Brand	Item No.
Acid Neutralizing Sorbent Pillows							
12 in x 12 in	1 gal/pk; 0.25 gal/pillow	4	Box	Alizarin and Sodium Carbonate Blend Filler with Polypropylene Skin	Pink	Pig	**30RC89**
Sorbent Pillows							
8 ½ in x 17 in	8 gal/pk; 1.6 gal/pillow	5	Bag	Polypropylene Filler and Skin	Green	Condor	**35ZR19**
8 ½ in x 17 in	18 gal/pk; 1.8 gal/pillow	10	Case		Green	Condor	**35ZR17**
8 ½ in x 17 in	36 gal/pk; 1.8 gal/pillow	20	Case		Green	Condor	**35ZR18**
9 in x 9 in	15.4 gal/pk; 0.48 gal/pillow	32	Case		Green	Condor	**436M82**
16 in x 17 in	10 gal/pk; 1 gal/pillow	10	Box		Pink	Pig	**30RC85**
18 in x 18 in	28 gal/pk; 1.75 gal/pillow	16	Case		Green	Brady SPC	**42X771**
Sorbent Pillows for Clean Room							
8 ½ in x 8 ½ in	2 gal/pk; 0.1 gal/pillow	20	Box	Polypropylene Filler with Spunbound Polypropylene Skin	Yellow	Spilfyter	**3NMR3**

Harsh Chemical Loose & Granular Sorbents

Neutralize harsh chemical spills like acids, bases, or aldehydes. These sorbents are sprinkled over chemical liquid spills and can be swept up once the spill is absorbed.

45ED57

30RD08

45ED61

30RD06

Composition Detail	Volume Absorbed per Pkg.	Weight	Container Type	Features	Brand	Item No.		Pkg. Qty.
Acid Neutralizer Powder								
Absorbent Polymer	0 gal	2 lb	Bottle	Color Change Indicates Neutralization, Effectively Neutralizes and Encapsulates	—	**45ED57**	*†	10
Absorbent Polymer	2 gal	8 lb	Pail		—	**45ED58**	*†	1
Absorbent Polymer	12 gal	41.7 lb	Pail		—	**45ED59**	*†	1
Acid Neutralizing Absorbent—Solidifer								
Co-Polymer Proprietary Blend	16 gal	19 lb	Box	High BTU Value Produces Less than 01% Ash Content When Burned	Pig	**30RD08**	*†‡	4
Base Neutralizer Powder								
Absorbent Polymer	2 gal	10 lb	Pail	Color Change Indicates Neutralization, Effectively Neutralizes and Encapsulates	—	**45ED61**	*†	1
Loose Absorbent								
Polypropylene	7 gal	5 lb	Bag	Chemical Resistant Material won't Degrade or Cause a Dangerous Reaction Upon Contact with Corrosive Spills	Pig	**30RD06**	*†‡	1

** Silica free. † Nonabrasive. ‡ Incinerable.*

pig

Biohazardous Liquid & Bodily Fluid Sorbent Pads & Rolls

Absorb and clean up biohazardous liquids and bodily fluids like blood, urine, or vomit in healthcare or medical facilities. Dimpled, polypropylene material. 30RF36 and 30RF35 have adhesive backing to secure them in place in high-traffic areas. 55CH32 for chemotherapy drugs absorbs cytotoxic materials.

30RF36

30RF38

55CH32

Description	Size	Volume Absorbed Per Pad	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Color/ Pattern	Item No.
Sorbent Pads	30 in x 40 in	96 oz	15 in x 20 in	15 gal	20	Box	Gray	**30RF37**
Adhesive-Backed Sorbent Pads	31 in x 40 in	96 oz	Not Perforated	15 gal	20	Box	Gray	**30RF36**
Sorbent Rolls	30 in x 150 ft	4,564 oz	10 in x 15 in	35 gal	1	Bag	Gray	**30RF38**
Adhesive-Backed Sorbent Rolls	31 in x 100 ft	3,043 oz	15 ½ in x 20 in	23 gal	1	Bag	Gray	**30RF35**
Sorbent Pads for Chemotherapy Drugs	13 in x 20 in	13 oz	10 in x 13 in	3 gal	3	Poly Bag	Yellow	**55CH32**

pig

Biohazardous Liquid & Bodily Fluid Floor Skimmers

Low-profile polypropylene pads absorb excess liquids from the floor in operating rooms. Floor skimmers keep the floor dry and minimize the risk of slips, trips, and falls.

30RF39

Dim.	Absorption Rate	Tube Length Included	Color	Item No.	Pkg. Qty.
9 in x 9 in x ¾ in	60 L/hr	12 ft	Black, Blue, Clear, White	**30RF39**	10
9 in x 9 in x ¾ in	60 L/hr	No Tube Included	Black, Blue, White	**30RF40**	20

BRADY SPC pig

Fuel & Flammable Liquid Sorbent Pads & Rolls

Polypropylene pads absorb fuel or flammable liquid spills such as jet and diesel fuel or gasoline. Pads and rolls are static-dissipative to reduce the risk of fire or explosion and water-repellent for use outdoors. White color draws attention to leaks or drips and shows saturation level during spill response.

15U843

30RA46

Size	Volume Absorbed Per Pad	Perforated Size	Volume Absorbed per Pkg.	Pkg. Qty.	Pkg. Type	Brand	Item No.
Sorbent Pads							
15 in x 19 in	23 oz	Not Perforated	9 gal	50	Bale	Brady SPC	**15U843**
15 in x 19 in	33 oz	Not Perforated	26 gal	100	Bale	Brady SPC	**5TZW7**
15 in x 20 in	14 oz	10 in x 15 in	22 gal	200	Bag	Pig	**30RA45**
15 in x 20 in	28 oz	10 in x 15 in	22 gal	100	Bag	Pig	**30RA44**
15 in x 20 in	28 oz	10 in x 15 in	11 gal	50	Bag	Pig	**30RA47**
30 in x 30 in	104 oz	Not Perforated	41 gal	50	Bale	Brady SPC	**5TZW8**
Sorbent Rolls							
15 in x 150 ft	2,572 oz	10 in x 15 in	40 gal	2	Bag	Pig	**30RA49**
30 in x 150 ft	5,145 oz	Not Perforated	40 gal	1	Bag	Pig	**30RA43**
30 in x 150 ft	5,145 oz	10 in x 15 in	40 gal	1	Bag	Pig	**30RA46**
30 in x 300 ft	5,145 oz	10 in x 30 in	40 gal	1	Bag	Pig	**30RA48**

Fuel & Flammable Liquid Sorbent Socks & Booms

pig

Surround and absorb flammable liquid spills including jet fuel, diesel, or gasoline to prevent them from spreading. Socks and booms are flexible and conform to many shapes and uneven surfaces. **Flat sorbent socks** contact more of the ground than tubular socks and booms.

30RC43

30RC54

30RC42

Size	Volume Absorbed (Pack, Each)	Pkg. Qty.	Composition	Connector Type	Color/Pattern	Item No.
Sorbent Socks						
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Cellulose Filler with Polypropylene Mesh & Skin	Rope	White	**30RC43**
3 in x 48 in	12 gal/pk; 1 gal/sock	12	Polypropylene Filler with Polypropylene Mesh & Skin	No Connector	White	**452L89**
3 in x 10 ft	15 gal/pk; 2 gal/sock	6	Cellulose & Poly Blend Filler with Polypropylene Mesh & Skin	Rope	White	**30RC45**
3 in x 10 ft	15 gal/pk; 2 gal/sock	6	Polypropylene Filler with Polypropylene Mesh & Skin	No Connector	White	**452L90**
3 in x 10 ft	16 gal/pk; 2 gal/boom	8		Ring	White	**30RC32**
3 in x 10 ft	16 gal/pk; 2 gal/boom	8	Polypropylene Filler with Polyester Mesh & Polypropylene Skin	Ring	Black, White	**30RC36**
3 in x 20 ft	16 gal/pk; 4 gal/boom	4		Ring	White	**30RC33**
3 in x 20 ft	16 gal/pk; 4 gal/boom	4		Ring	Black, White	**30RC37**
Flat Sorbent Socks						
6 in x 48 in	16 gal/pk; 2 gal/sock	8	Cellulose Filler with Polypropylene Mesh & Skin	Rope	Various	**30RC54**
Sorbent Booms						
5 in x 10 ft	24 gal/pk; 6 gal/boom	4	Polypropylene Filler with Polyester Mesh & Polypropylene Skin	Ring	White	**30RC31**
5 in x 10 ft	24 gal/pk; 6 gal/boom	4		Ring	Black, White	**30RC38**
5 in x 10 ft	24 gal/pk; 6 gal/boom	4	Cellulose Filler with Polyester Mesh & Polypropylene Skin	Ring	White	**30RC42**
5 in x 20 ft	24 gal/pk; 12 gal/boom	2		Ring	White	**30RC34**
5 in x 20 ft	24 gal/pk; 12 gal/boom	2		Ring	Black, White	**30RC39**
8 in x 10 ft	24 gal/pk; 12 gal/boom	2		Ring	White	**30RC27**
8 in x 10 ft	48 gal/pk; 12 gal/boom	4	Polypropylene Filler with Polyester Mesh & Polypropylene Skin	Ring	Black, White	**30RC40**
8 in x 20 ft	48 gal/pk; 24 gal/boom	2		Ring	White	**30RC35**
8 in x 20 ft	48 gal/pk; 24 gal/boom	2		Ring	Black, White	**30RC41**
8 in x 10 ft	48 gal/pk; 12 gal/boom	4		Ring	White	**30RC26**

35ZR69

5UZ64

2GU51

2NCN6

30RD58

3AP01

Universal Spill Kits

Kits contain essential sorbents and supplies to clean up liquid spills including coolants, solvents, oils, paints, and water-based liquids.

Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Overpack Drum Included	Brand	Item No.	Refill Item No.
Overpack Drum Spill Kits and Refills							
14 gal	(12) Pads, (2) Socks, Pillows	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Condor	**35ZR69**	**35ZR70**
16 gal	(12) 15 in W x 19 in L Pads, (2) 18 in L x 18 in W Pillows, (3) 3 in x 12 ft Socks	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Brady SPC Absorbents	**5UZ63**	
26 gal	(25) Absorbent Pads, (4) Absorbent Pillows, (4) Absorbent Socks	Pair of Gloves, Safety Goggles	(5) Disposal Bags and Ties, (6) Tamper Proof Seals, Emergency Guide Book, Overpack	30 gal Drum	Spilltech	**443U15**	
29 gal	(25) Pads, (3) Pillows, (3) Socks	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Condor	**35ZR71**	**35ZR72**
36 gal	(25) 19 in L x 15 in W Pads, (6) 12 ft L x 3 in W Socks, (6) 9 in L x 9 in W Pillows	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Brady SPC Absorbents	**42X742**	
38 gal	(4) 12 ft L x 3 in W Socks, (50) 19 in L x 15 in W Pads, (8) 18 in L x 18 in W Pillows	Goggles, Nitrile Gloves	(5) Disposal Bags, Handbook	55 gal Drum	Brady SPC Absorbents	**42X719**	
55 gal	(100) Pads, (4) Pillows, (4) Socks	Goggles, Pair of Nitrile Gloves	(5) Disposal Bags, Handbook	65 gal Drum	Condor	**35ZR76**	**35ZR77**
60 gal	(10) 3 in D x 10 ft L Absorbent Sock, (16) 3 in D x 48 in L Absorbent Sock, (56) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers, (60) 15 in W x 20 in L Pig Absorbent Mat Pad, (8) 17 in W x 21 in L x 2 in H Absorbent Pillow	—	(10) 36 in W x 60 in H Polyethylene Disposal Bags, (6) 2 in W x 6 in L Tamper Proof Seal Label, 95 gal High Visibility Container with Nonthreaded Lid, Instructions	Drum Not Included	Pig	**30RD53**	
67 gal	(110) Pads, (12) 3 in D x 4 in L Socks, (4) 3 in D x 12 in L Socks, (4) Pillows	Goggles, Pair of Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum	Condor	**35ZR78**	**35ZR79**
UN-Rated Spill Kits in a Drum and Refill							
32 gal	(2) Socks, (4) Pillows, (50) Pads	Goggles, Pair of Nitrile Gloves	(6) Disposal Bags, Handbook	55 gal Drum	Condor	**35ZR74**	**35ZR75**
38 gal	(4) 3 in x 12 ft Socks, (50) 15 in W x 19 in L Pads, (8) 18 in L x 18 in W Pillows	Goggles, Nitrile Gloves	(5) Disposal Bags, Handbook	55 gal Drum	Brady SPC Absorbents	**5UZ64**	
52 gal	(10) Absorbent Socks, (100) Absorbent Pads, (5) Absorbent Pillows	(2) Pair of Gloves, (2) Pair of Goggles	(4) Disposal Bags and Ties, (6) Tamper Proof Seals, Emergency Guide Book, Yellow Drum	55 gal Drum	Spilltech	**443U12**	
Spill Kits in a Bag							
5 gal	(10) 15 in W x 19 in L Pads, (2) 3 in W x 4 ft L Socks	Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included	Brady SPC Absorbents	**2GU51**	
9 gal	(10) Pads, (2) Socks, Pillow	Pair of Nitrile Gloves	Disposal Bag	Drum Not Included	Condor	**35ZR67**	
9 gal	(28) 15 in W x 20 in L Mat Pad, (4) 3 in D x 48 in L Sock	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags, Spill Kit Vinyl Bag	Drum Not Included	Pig	**30RD33**	
12 gal	(10) 15 in W x 19 in L Pads, (20) 15 in W x 19 in L Oil-Only Pads, (3) 3 in x 42 in Socks	Goggles, Nitrile Gloves	(2) Disposal Bags, Putty Pat, Set of 9 Plugs	Drum Not Included	Brady SPC Absorbents	**436N17**	
Spill Kits in a Bucket							
5 gal	(10) 15 in x 19 in Absorbent Pads, (2) 3 in x 4 ft Absorbent Socks	Pair of Nitrile Gloves, Safety Goggles	(2) 18 in x 30 in Disposal Bags and Ties, (5) White Overpack Bucket, (6) 6 in x 2 in Tamper Proof Seals, 3 in x 5 in Vinyl Spill Kit Label	5 gal Drum	Spilltech	**443U14**	
9 gal	(10) 15 in W x 19 in L Pads, (3) 3 in D x 4 ft L Socks	Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included	Brady SPC Absorbents	**2NCN6**	
Spill Kit in Mobile Can							
37 gal	(2) Lite-Dry Loose Absorbent, (2) Pig Dry Loose Absorbent in Spill Pouch, (4) 3 in D x 48 in L Absorbent Sock, (70) 15 in W x 20 in L Absorbent Mat Pad, 3 in D x 10 ft L Absorbent Sock	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags, (6) 2 in W x 6 in L Tamper Proof Seal Label, Instructions, Plastic Container with Wheels	Drum Not Included	Pig	**30RD58**	
Single Use Spill Kit							
7 gal	(15) 19 in L x 15 in W Pads, (3) 4 ft L x 3 in D Socks	Pair of Goggles, Pair of Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included	Brady SPC Absorbents	**3AP01**	
Spill Chest							
76 gal	(10)3 in D x 10 ft L Sock, (112) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers, (154) 15 in W x 20 in L Mat Pad, (31) 3 in Dx 48 in L Sock	—	(15) 36 in W x 60 in H Polyethylene Disposal Bags, (6) 2 in W x 6 in L Tamper Proof Seal Label, 31 in W x 48 in L x 38 in H Pig Storage Chest, Instructions	Drum Not Included	Pig	**30RD62**	

30RD92

35ZR99

3WNF4

2NCN7

30RE19

Oil-Only Spill Kits

These kits contain supplies and sorbents to clean up oil-based liquid spills without absorbing water.

Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Overpack Drum Included	Brand	Item No.	Refill Item No.
UN-Rated Overpack Drum Spill Kits and Refills							
14 gal	(12) Oil-Only Pads, (2) Oil-Only Socks, Oil-Only Pillows	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Condor	**35ZR94**	**35ZR95**
16 gal	(12) 15 in W x 19 in L Oil-Only Pads, (2) 18 in L x 18 in W Oil-Only Pillows, (3) 3 in Dia. x 12 ft L Oil-Only Socks	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Brady SPC Absorbents	**5UZ69**	
29 gal	(25) Oil-Only Pads, (3) Oil-Only Pillows, (3) Oil-Only Socks	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Condor	**35ZR96**	**35ZR97**
31 gal	(4) 17 in L x 16 in W x 1 in H Pig Skimmer Oil-Only Absorbent Pillow (PIL203), (40) 20 in L x 15 in W Pig STAT-MAT Oil-Only Absorbent Pad (MAT214), (5) 10 ft L x Ext. dia. 3 in Pig Skimmer Oil-Only Absorbent Sock (SKM203), (5) 48 in L x Ext. dia. 3 in Pig Skimmer Oil-Only Absorbent Sock (104PS), (56) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers (WIP310)	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), Ext. dia. 23 in x 45.4 in H Pig Wheeled Overpack Salvage Drum (PAK48(9) WH), Instructions	50 gal Drum	Pig	**30RE21**	
36 gal	(25) 19 in L x 15 in W Oil-Only Pads, (6) 12 ft L x 3 in W Oil-Only Socks, (6) 9 in L x 9 in W Oil-Only Pillows	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Brady SPC Absorbents	**42X745**	
38 gal	(4) 12 ft L x 3 in W Oil-Only Socks, (50) 19 in L x 15 in W Oil-Only Pads, (8) 18 in L x 18 in W Pillows	Goggles, Nitrile Gloves	(5) Disposal Bags, Handbook	55 gal Drum	Brady SPC Absorbents	**42X720**	
52 gal	(10) 3 in D x 10 ft L Oil-Only Absorbent Boom (BOM406), (3) 5 in D x 10 ft L Oil-Only Absorbent Boom (BOM405), (60) 15 in W x 20 in L Oil-Only Absorbent Pad (MAT214)	—	(10) 36 in W x 60 in H Polyethylene Disposal Bags (BAG20-1L), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), Ext. dia. 31.38 in x 41½ in H Pig Overpack Salvage Drum (PAK72-5) WH), Instructions	95 gal Drum	Pig	**30RD92**	
55 gal	(100) Oil-Only Pads, (4) Oil-Only Pillows, (4) Oil-Only Socks	Goggles, Pair of Nitrile Gloves	(5) Disposal Bags, Handbook	65 gal Drum	Condor	**35ZT02**	**35ZT03**

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Oil-Only Spill Kits

These kits contain supplies and sorbents to clean up oil-based liquid spills without absorbing water.

Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Overpack Drum Included	Brand	Item No.	Refill Item No.
UN-Rated Overpack Drum Spill Kits and Refills (Cont.)							
63 gal	(100) 19 in L x 15 in W Oil-Only Pads, (7) 12 ft L x 3 in W Oil-Only Socks, (7) 18 in L x 18 in W Oil-Only Pillows	Goggles, Nitrile Gloves	(5) Disposal Bags, Handbook	65 gal Drum	Brady SPC Absorbents	**42X750**	
67 gal	(110) Oil-Only Pads, (12) 4 in L x 3 in D Oil-Only Socks, (4) 12 in L x 3 in D Oil-Only Socks, (4) Oil-Only Pillows	Goggles, Pair of Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum	Condor	**35ZT04**	**35ZT05**
75 gal	(110) 19 in L x 15 in W Oil-Only Pads, (12) 4 ft L x 3 in W Oil-Only Pillows, (8) 12 ft L x 3 in W Oil-Only Socks, (8) 18 in L x 18 in W Oil-Only Pillows	Goggles, Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum	Brady SPC Absorbents	**42X717**	**42X831**
82 gal	(110) 15 in W x 19 in L Oil-Only Pads, (12) 3 in Dia. x 4 ft L Oil-Only Socks, (8) 18 in L x 18 in W Oil-Only Pillows, (8) 3 in Dia. x 12 ft L Oil-Only Socks	Goggles, Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum		**5UZ71**	**42X831**
UN-Rated Spill Kits in a Drum and Refill							
32 gal	(2) Oil-Only Socks, (4) Oil-Only Pillows, (50) Oil-Only Pads	Goggles, Pair of Nitrile Gloves	(6) Disposal Bags, Handbook	55 gal Drum	Condor	**35ZR99**	**35ZT01**
40 gal	(4) 3 in Dia. x 12 ft L Oil-Only Socks, (50) 15 in W x 19 in L Oil-Only Pads, (8) 18 in L x 18 in W Oil-Only Pillows	Goggles, Nitrile Gloves	(5) Disposal Bags, Handbook	55 gal Drum	Brady SPC Absorbents	**5UZ70**	**42X827**
49 gal	(10) Absorbent Socks, (100) Absorbent Pads, (5) Absorbent Pillows	(2) Pair of Gloves, (2) Pair of Goggles	(4) Disposal Bags and Ties, (6) Tamper Proof Seals, Emergency Guide Book, Yellow Drum	Drum Not Included	Spilltech	**443U28**	
Spill Kits in a Bag							
5 gal	(10) 19 in L x 15 in W Chemical Pads, (2) 3 in D x 4 ft L Chemicals Socks	Pair of Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included	Brady SPC Absorbents	**3WNF4**	
7 gal	(3) 3 in D x 48 in L Oil-Only Absorbent Socks, (30) 15 in W x 20 in L Oil-Only Absorbent Pad, Pig Dry Loose Absorbent in Spill Pouch	Apron, Economy Goggle (GLS290-AF), Neoprene Glove	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), 3 ¼ in D x 1 ¾ in H Pig Plug-N-Seal No-Freeze Patching Paste (PTY237), 5 gal Collapsible Container, Instructions, Lightstick, Vinyl Bag	Drum Not Included	Pig	**452L31**	
Spill Kits in a Bucket							
5 gal	(10) Absorbent Pads, (2) Absorbent Socks	Pair of Gloves, Safety Goggles	(2) Disposal Bags and Ties, (6) Tamper Proof Seals, White Overpack Bucket	Drum Not Included	Spilltech	**443U30**	
9 gal	(10) 15 in W x 19 in L Oil-Only Pads, (3) 3 in D x 4 ft L Oil-Only Socks	Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included	Brady SPC Absorbents	**2NCN7**	
Spill Kit in a Mobile Can							
40 gal	(2) 10 ft L x Ext. dia. 3 in Pig Skimmer Oil-Only Absorbent Sock (SKM203), (2) Pig Oil-Only Lite-Dry Loose Absorbent (PLP410), (4) 48 in L x Ext. dia. 3 in Pig Oil-Only Absorbent Sock (SKM210), (70) 20 in L x 15 in W Pig STAT-MAT Oil-Only Absorbent Pad (MAT214)	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), Instructions, Plastic Container with Wheels	Drum Not Included	Pig	**30RE19**	

Harsh Chemical Spill Kits

Kits provide essential supplies and sorbents to clean up chemical spills.

Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Overpack Drum Included	Brand	Item No.	Refill Item No.
UN-Rated Overpack Drum Spill Kit and Refill							
63 gal	(12) 3 in D x 46 in L Chemical Sock (124CR), (2) Ext. dia. 5 in x 10 ft L Pig HazMat Chemical Absorbent Dike (HA1010), (6) 3 in D x 10 ft L Absorbent Chemical Sock (Pig301), (7) 17 in W x 16 in L x 2 in H Harsh Chemical Absorbent Pillow (HR7015), (75) 15 in W x 20 in L Harsh Chemical Absorbent Mat Pad (MAT301)	—	(10) 36 in W x 60 in H Polyethylene Disposal Bags (BAG20-1L), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), 95 gal High Visibility Container with Nonthreaded Lid, Instructions	Drum Not Included	Pig	**30RE86**	
Spill Kits and Refills							
5 gal	(10) 15 in x 19 in Pads, (2) 3 in x 4 ft Socks, 2 lb. Base Neutralizer Shaker	Goggles, Pair Nitrile Gloves	(2) Disposal Bags, Hazmat, Instruction Sheet, Scoop	Drum Not Included	Brady SPC Absorbents	**42X761**	
14 gal	(12) Harsh Chemical Pads, (2) Harsh Chemical Socks, Harsh Chemical Pillows	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Condor	**35ZR81**	**35ZR82**
16 gal	(12) 15 in W x 19 in L Harsh Chemical Pads, (2) 18 in L x 18 in W Harsh Chemical Pillows, (3) 3 in Dia. x 12 ft L Harsh Chemical Socks	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	20 gal Drum	Brady SPC Absorbents	**5UZ66**	
27 gal	(4) 17 in W x 16 in L x 2 in H Harsh Chemical Absorbent Pillow (HR7015), (40) 12¼ in W x 13 in L Polypropylene Wipers, (40) 15 in W x 20 in L Harsh Chemical Absorbent Mat Pad (MAT301), (5) 3 in D x 10 ft L Absorbent Chemical Sock (Pig301), (5) 3 in D x 46 in L Absorbent Chemical Sock (124CR)	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), Ext. dia. 23 in x 45.4 in H Pig Wheeled Overpack Salvage Drum (PAK48(9) WH), Instructions	50 gal Drum	Pig	**30RE88**	
29 gal	(25) Harsh Chemical Pads, (3) Harsh Chemical Pillows, (3) Harsh Chemical Socks	Goggles, Pair of Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Condor	**35ZR83**	**35ZR84**
32 gal	(2) Harsh Chemicals Socks, (4) Harsh Chemicals Pillows, (50) Harsh Chemicals Pads	Goggles, Pair of Nitrile Gloves	(6) Disposal Bags, Handbook	55 gal Drum		**35ZR86**	**35ZR87**
36 gal	(25) 19 in L x 15 in W Harsh Chemical Pads, (6) 12 ft L x 3 in W Harsh Chemical Socks, (6) 9 in L x 9 in W Pillows	Goggles, Nitrile Gloves	(3) Disposal Bags, Handbook	30 gal Drum	Brady SPC Absorbents	**42X744**	
67 gal	(110) Harsh Chemicals Pads, (12) 4 in L x 3 in D Harsh Chemicals Socks, (4) 12 in L x 3 in D Harsh Chemicals Socks, (4) Harsh Chemicals Pillows	Goggles, Pair of Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum	Condor	**35ZR90**	**35ZR91**
82 gal	(110) 15 in W x 19 in L Harsh Chemical Pads, (12) 3 in Dia. x 4 ft L Harsh Chemical Socks, (8) 18 in L x 18 in W Harsh Chemical Pillows, (8) 3 in Dia. x 12 ft L Harsh Chemical Socks	Goggles, Nitrile Gloves	(10) Disposal Bags, Handbook	95 gal Drum	Brady SPC Absorbents	**5UZ68**	**42X830**
Spill Kits in a Bag							
3 gal	(10) 15 in x 19 in Pads, (2) 3 in x 4 ft Socks	Pair Goggles, Pair Nitrile Gloves	Disposal Bag	Drum Not Included	Brady SPC Absorbents	**436N15**	
5 gal	(10) 19 in L x 15 in W Harsh Chemicals Pads, (2) 3 in D x 4 ft L Harsh Chemicals Socks	Pair of Nitrile Gloves	Disposal Bag, Instruction Sheet	Drum Not Included		**3WNF3**	
9 gal	(28) 15 in W x 20 in L Pig Harsh Chemical Absorbent Mat Pad (MAT301), (4) Ext. Dia. 3 in x 46 in L Pig Harsh Chemical Absorbent Sock (124CR)	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), Instructions, Spill Kit Vinyl Bag	Drum Not Included	Pig	**30RE67**	
15 gal	(32) 15 in W x 19 in L Chemical Pads, (5) 3 in Dia. x 12 ft L Chemical Socks, 18 in L x 18 in W Chemical Pillow	Goggles, Nitrile Gloves	(2) Disposal Bags	Drum Not Included	Brady SPC Absorbents	**42X796**	
Spill Kits in a Bucket							
9 gal	(10) 15 in W x 19 in L Harsh Chemical Pads, (3) Pairs of 3 in Dia. x 4 ft L Harsh Chemical Socks	Pair of Nitrile Gloves	(2) Disposal Bags, Instruction Sheet	Drum Not Included	Condor	**436M96**	
Spill Kit in a Mobile Can							
34 gal	(2) 3 in D x 10 ft L Absorbent Sock (Pig301), (2) PigHarsh Chemical Loose Absorbent (HA8010), (4) 3 in D x 46 in L Absorbent Sock (124CR), (70) 15 in W x 20 in L Harsh Chemical Absorbent Mat Pad (MAT301)	—	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), (6) 2 in W x 6 in L Tamper Proof Seal Label (LBL100), Instructions, Plastic Container with Wheels	Drum Not Included	Pig	**30RE85**	
Single Use Spill Kit							
5 gal	(20) 15 in W x 20 in L PIG HazMat Chemical Absorbent Mat Pad (MAT302), (3) Ext. dia 3 in x 46 in L PIG HazMat Chemical Absorbent Sock (124CR)	Apron, Economy Goggle (GLS290-AF), Neoprene Glove	36 in W x 60 in H Polyethylene Disposal Bags (Bag201-L), Vacuum Sealed Foil Bag	Drum Not Included	Pig	**30RE83**	

55VE18

436N04

49H356

55CH30

Biohazardous Liquid & Bodily Fluid Spill Kits

Portable kits contain supplies and absorbent material to clean up bodily fluid spills. Chemotherapy drug spill kits contain supplies for cleaning up cytotoxic chemicals found in chemotherapy drugs.

Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Brand	Item No.
Bodily Fluid Spill Kits					
Bag					
37 oz	(3) 10 in W x 13 in L Absorbent Mat Pads, 3 oz Sheen Clean Loose Absorbent, Surface Sanitizing Wipe	Pair of 12 in L Nitrile Gloves	Biohazard Waste Bag, Disposable Scoop and Scraper, Hand Sanitizing Wipe	Pig	55VE18
—	Benzalkonium Chloride Towelette, Disinfectant Cloth	Each Long Sleeve Gown, Mask with Shield, Pair Latex Free Gloves	4 in Scoop/Scraper, Benzalkonium Chloride Towelette, Disinfectant Cloth	—	3ZDV8
—	(3) Paper Towels, BZK Towelette, Pick Up Powder, Sani-Cloth Germicidal Cleanser	Pair Exam Gloves	E.Z. Zip Bag, Instructions, Red Disposable Bag with Biohazard Warning and Ties, Super Scooper Spatula, Trash Bag with Tie	—	3ZDW1
Bucket					
9 gal	(10) 15 in x 19 in Barrier Backed Pads, 1-lb. Bag Granular, Set Sanitary Wipes	Goggles, Neoprene Apron, Pair Neoprene Gloves	(2) Disposal Bags, Scoop and Scraper	Brady SPC Absorbents	436N04
9 gal	(20) 9 in x 12 in PIG HazMat Mat Pad, (6) Sanitizing Surface Wipes, 4 lb. Container PIG Absorb-and-Lock Bio-Fluids Absorbent (PLP503)	(2) Apron, (2) Neoprene Glove, Economy Goggles (GLS290-AF)	(4)Biohazard Bags and Ties, (4) Scraper and Scoop, (6) Sanitizing Hand Wipes, 3.5 gal Pail, Instructions	Pig	45GN69
Carrying Case					
—	—	Protective Apparel	Disinfectant, Spill Clean Up	—	49H356
51 oz	(10) 9 in x 12 in Pig Haz-Mat Mat Pads, Dry wiping cloth, Hand Wipe towel, Red Z absorbent, Sani cloth surface Wipe	(2) Shoe covers, (4) Gloves, Disposable gown, Faceshield with mask	(2) Biohazard Bags and Ties, Carrying Case, Instruction Sheet, Scraper and scoop	Pig	452L65
Chemotherapy Drug Spill Kits					
Bag					
3 L	(2) 20 in L x 15 in W Chemotherapy Drugs Pads	(2) Nitrile Gloves, (3) Aprons, Pair of Boot Covers	(2) Ties, (3) Disposal Bags	Pig	55CH30
6 L	(5) 20 in L x 15 in W Chemotherapy Drugs Pads	(2) Nitrile Gloves, (3) Aprons, Pair of Boot Covers	(2) Ties, (3) Disposal Bags	Pig	55CH31

55VE14

Fuel & Flammable Liquid Spill Kits

These kits contain essential sorbents and products to clean up and safely dispose of spilled fuels or flammable liquids.

Description	UN Rating	Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Item No.
UN-Rated Overpack Drum Spill Kit	UN1H2/Y345/S	42 gal	(150) 15 in x 20 in Stat-Mat Absorbent Pads, (6) Dry Loose Absorbents in Spill Pouches, (6) External dia 3 in x 10 ft Static-Dissipative Absorbent Socks, (8) External dia 3 in x 48 in Static-Dissipative Absorbent Socks	(4) Aprons, (4) Economy Goggles, (4) Pairs of 13 in L Neoprene Gloves	(10) 36 in x 60 in Polyethylene Disposal Bags, (2) Caution Tapes, (2) Dustpan/Brooms	55VE14
Spill Kit in a UN-Rated Bucket	UN1H2/Y40/S	8 gal	(25) 15 in x 20 in Stat-Mat Absorbent Pads, (4) Dry Loose Absorbents In Spill Pouches, (4) External dia 3 in x 48 in Static-Dissipative Absorbent Socks	Apron, Economy Goggle, Pair of 13 in L Neoprene Gloves	(5) 18 in x 30 in Polyethylene Disposal Bags, Caution Tape, Dustpan/Broom	55VE12

30RF04

Heavy Metals Spill Kits

Kits contain supplies to contain, clean up, and dispose of mercury spills.

Description	UN Rating	Volume Absorbed Per Kit	Sorbents Included	PPE Included	Additional Components Included	Item No.
Mercury Spill Kit	—	6 oz	(6) Pre-moistened Wipes	(1) Safety Glasses, (6) Pair Nitrile Gloves	(6) Collection Vials, (6) Scoop/Spatulas, (7) Plastic Zip Closure Bags, Butyl Rubber Tape (Roll), Storage/Carrying Case, Vacuum Hand Pump	30RE72
UN-Rated Mercury Spill Kit	UN1H2/Y6/S	35 oz	8 ½ in W x 9 in L PIG Mercury Cleanup Wipers (WIP1404), PIG Mercury Absorbent Powder (PLP602)	18 mil. Gloves, Goggles	18 in W x 30 in H Polyethylene Disposal Bags (Bag201-S), Dust Pan and Hand Broom, Instructions, Polyethylene Container and Lid, Spatula	30RF04

Spill Cabinets

High-visibility yellow metal cabinets contain sorbents and supplies for cleaning up water- and oil-based spills. 35ZT06 also includes PPE goggles and a pair of nitrile gloves.

30RD38

Description	Cabinet Size	Volume Absorbed Per Kit	Sorbents Included	Additional Components Included	Brand	Item No.
Universal						
Wall Cabinet	30 1⁄16 in H x 12 ¾ in W x 13 13⁄16 in D	12 gal	(10) 10 in W x 10 in L x 2 in H Pig Universal Absorbent Pillow (PIL204), (56) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers (WIP310), (75) 10 in W x 13 in L Pig Absorbent Mat Pad in Dispenser Box (MAT251)	(5) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), Emergency Phone Number Label, Steel Storage Cabinet	Pig	30RD29
Wall Cabinet	32 ¾ in H x 14 ¼ in W x 20 in D	17 gal	(2) 3 in D x 48 in L Sock, (3) 3 in D x 10 ft L Sock, (56) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers, (8) 10 in W x 10 in L x 2 in H Pillow, (80) 10 in W x 13 in L Mat Pad	(10) 18 in W x 30 in H Polyethylene Disposal Bags, 20 in W x 14¼ in D x 32¾ in H Pig Empty Cabinet, Emergency Phone Number Label	Pig	30RD38
Floor Cabinet	78 ½ in H x 26 in W x 36 ½ in D	60 gal	(10) 3 in D x 10 ft L Sock, (16) 3 in D x 48 in L Sock, (50) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers, (60) 15 in W x 20 in L Mat Pad, (8) 17 in W x 21 in L x 2 in H Pillow	(10) 36 in W x 60 in H Polyethylene Disposal Bags, (6) 2 in W x 6 in L Tamper Proof Seal Label, 26 in W x 36½ in L x 78½ in H Pig Empty Spill Response Cabinet, Instructions	Pig	30RD37
Oil-Only						
Wall Cabinet	32 ¾ in H x 14 ¼ in W x 19 ⅞ in D	17 gal	(10) Oil-Only Pillows, (2) 4 in L x 3 in D Oil-Only Socks, (25) Oil-Only Pads, 8 in L x 3 in D Oil-Only Sock	(5) Disposal Bags	Condor	35ZT06
Universal Cabinet Refill Kit						
Spill Cabinet Refill for Use With 30RD38	—	17 gal	(2) 3 in Dia. x 48 in L Pig Blue Absorbent Sock (4048), (3) 3 in Dia. x 10 ft L Pig Blue Absorbent Sock (Pig202), (56) 11.8 in W x 13 in L Pig PR40 All-Purpose Wipers (WIP310), (8) 10 in W x 10 in L Pig Absorbent Pillow (PIL204), (80) 10 in W x 13 in L Pig Absorbent Mat Pad in Dispenser Box (MAT251)	(10) 18 in W x 30 in H Polyethylene Disposal Bags (BAG20-1S), Emergency Phone Number Label	Pig	30RD80

ULTRATECH INTERNATIONAL, INC. · EAGLE® · Condor · ENPAC

Plastic Spill Containment Pallets

- Supports EPA Compliance 40 CFR 264.175
- Supports SPCC Compliance
- Black grate color
- Nonmodular, except 3KN24 is Modular

Pallets hold drums and other containers and have a containment sump that captures liquid spills.

Low-Profile Plastic Spill Pallets— Are not as tall as standard pallets, making it easier to load and unload drums on and off of them. They also make it easier to dispense liquids from drums. These pallets meet necessary spill containment requirements.

Plastic Spill Pallets—Have a built-in containment sump that captures liquid spills from drums and containers. Pallets have grated flooring that can be removed and cleaned.

Flexible Sidewall Plastic Spill Pallets—Have a rugged, PVC fabric sump that reduces the unassembled size of the unit, and makes it easier to store, transport, and ship.

Nestable Plastic Floor Pallets—Can be stacked to save space. The removable grating aids cleanup and inspection. They can be moved with a forklift when stacked together.

Inline Plastic Spill Pallets—Save floor space and make drum handling easier. They are connected to a spill-deck sump to contain liquids.

Fluorinated Plastic Spill Pallets—Get treated with a process that makes them compatible with aggressive chemicals and certain chlorinated solvents.

Plastic Spill Pallet with Removable Sump— Combination of a forkliftable sump and forkliftable pallet: allows the loaded pallet to be lifted off the sump and transported while the sump remains in place.

Note: Products do not include any pictured containers.

Low Profile 3KN29

Plastic 45YZ92

Flexible Sidewall 43Y750

Nestable 31DL81

Inline 9M443

Fluorinated 53CP29

Pallet with Removable Sump 4LNU5

Spill Cap.	Load Cap.	Dim.	Pallet Color	Indoor/ Outdoor Use	Forklift Pockets	Brand	WITH DRAIN Mfr. Model	WITH DRAIN Item No.	WITHOUT DRAIN Mfr. Model	WITHOUT DRAIN Item No.
Low Profile Plastic Spill Pallets										
For Number of 55 gal. Drums: 2										
66 gal	4,500 lb	65 ½ in L x 40 in W x 8 ¾ in H	Yellow	Indoor, Outdoor	2-Way	Ultratech	9611	**53CP34**	9610	**4LNV9**
For Number of 55 gal. Drums: 4										
66 gal	8,000 lb	51 ½ in L x 51 ½ in W x 8 in H	Black	Indoor	2-Way	Eagle	1645B	**35U073**	1645BND	**35U074**
66 gal	8,000 lb		Black	Indoor	2-Way	Condor	1645BC	**45YZ95**	1645BNDC	**45YZ94**
66 gal	8,000 lb		Yellow	Indoor	2-Way	Eagle	1645	**3KN29**	—	—
66 gal	8,000 lb		Yellow	Indoor	4-Way	Eagle	—	—	1645ND	**35U075**
75 gal	9,000 lb	62 in L x 62 in W x 8 ¾ in H	Yellow	Indoor, Outdoor	4-Way	Ultratech	9631	**53CP36**	9630	**4LNW1**
Plastic Spill Pallets										
For Number of 55 gal. Drums: 1										
62 gal	800 lb	40 in L x 40 in W x 12 in H	Yellow	Indoor, Outdoor	2-Way	Ultratech	9607	**53CP33**	9606	**4LNR4**
For Number of 55 gal. Drums: 2										
66 gal	3,000 lb	53 in L x 29 in W x 16 ½ in H	Yellow	Outdoor	2-Way	Ultratech	—	—	1010	**8UL63**
66 gal	4,000 lb	26 ¼ in L x 51 in W x 13 ¾ in H	Black	Indoor	2-Way	Eagle	1620B	**35U056**	1620BND	**35U057**
66 gal	4,000 lb		Black	Indoor	2-Way	Condor	1620BC	**45YZ93**	1620BNDC	**45YZ92**
66 gal	4,000 lb		Yellow	Indoor	2-Way	Eagle	1620	**3KN24**	1620ND	**35U058**
For Number of 55 gal. Drums: 4										
66 gal	6,000 lb	53 in L x 53 in W x 11 ¾ in H	Yellow	Indoor, Outdoor	4-Way	Ultratech	—	—	1000	**9NPD0**
132 gal	8,000 lb	51 in L x 52 ½ in W x 13 ¾ in H	Black	Indoor	2-Way	Eagle	1640B	**35U070**	1640BND	**35U071**
132 gal	8,000 lb		Black	Indoor	2-Way	Condor	1640BC	**45YZ97**	1640BNDC	**45YZ96**
132 gal	8,000 lb		Yellow	Indoor	2-Way	Eagle	1640	**35U069**	1640ND	**35U072**
Flexible Sidewall Plastic Spill Pallets										
For Number of 55 gal. Drums: 2										
66 gal	1,200 lb	48 in L x 24 in W x 14 in H	Yellow	Indoor	No Pockets	Ultratech	1345	**43Y749**	—	—
66 gal	1,200 lb		Yellow	Indoor, Outdoor	No Pockets	Ultratech	—	—	1340	**43Y748**
For Number of 55 gal. Drums: 4										
66 gal	2,400 lb	48 in L x 48 in W x 7 in H	Yellow	Indoor	No Pockets	Ultratech	1346	**43Y751**	1341	**43Y750**
Nestable Plastic Spill Pallets										
For Number of 55 gal. Drums: 2										
66 gal	2,000 lb	51 in L x 25 ¾ in W x 21 ½ in H	Yellow	Indoor, Outdoor	4-Way	ENPAC	5222-YE-D	**31DL82**	5222-YE	**31DL81**
For Number of 55 gal. Drums: 4										
66 gal	6,000 lb	51 in L x 51 in W x 10 in H	Yellow	Indoor, Outdoor	2-Way	Ultratech	1231	**53CP28**	1230	**53CP27**
Inline Plastic Spill Pallets										
For Number of 55 gal. Drums: 3										
66 gal	4,500 lb	83 in L x 34 ½ in W x 8 ¾ in H	Yellow	Indoor, Outdoor	2-Way	Ultratech	9627	**53CP35**	9626	**9M443**
78 gal	6,000 lb	76 ¾ in L x 26 ¼ in W x 15 in H	Yellow	Indoor	4-Way	Eagle	1630GRAI	**3KN28**	—	—

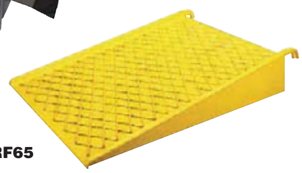
Spill Cap.	Load Cap.	Dim.	Pallet Color	Indoor/ Outdoor Use	Forklift Pockets	Brand	WITH DRAIN Mfr. Model	WITH DRAIN Item No.	WITHOUT DRAIN Mfr. Model	WITHOUT DRAIN Item No.
Fluorinated Plastic Spill Pallets										
For Number of 55 gal. Drums: 2										
66 gal	3,000 lb	53 in L x 29 in W x 16 ½ in H	Blue	Indoor, Outdoor	2-Way	Ultratech	1213	**53CP30**	1212	**53CP29**
For Number of 55 gal. Drums: 4										
66 gal	6,000 lb	51 in L x 51 in W x 10 in H	Blue	Indoor, Outdoor	2-Way	Ultratech	1232	**53CP32**	1233	**53CP31**
Plastic Spill Pallet with Removable Sump										
85 gal	6,500 lb	51 in L x 51 in W x 17 ½ in H	Red	Indoor, Outdoor	4-Way	Ultratech	—	—	0801	**4LNU5**

ULTRATECH INTERNATIONAL, INC. · EAGLE®

Plastic Ramps for Spill Pallets

Ramps connect to spill pallets and make loading and unloading drums and containers easier while also helping to minimize injuries.

3FTZ2


4RF65

Load Cap.	Dim.	Compatible Spill Containment Ht.	Color	For Use With Mfr. Model No.	Brand	Mfr. Model	Item No.
700 lb	68 ½ in L x 28 ½ in W x 12 in H	12 in	Black	9607, 9606	Ultratech	0678	**4LNR5**
700 lb	55 ½ in L x 28 ½ in W x 8 ¾ in H	8 in	Black	9611, 9610, 9631, 9630, 1231, 1230	Ultratech	676	**3FTZ2**
1,500 lb	45 ½ in L x 32 in W x 8 in H	8 in	Yellow	1645	Eagle	1689	**4RF65**

Outdoor Plastic Spill Containment Pallets

- Supports EPA Compliance 40 CFR 264.175
- Supports SPCC Compliance
- Black grate color
- Nonmodular, except 3FTY5 is Modular

Outdoor spill pallets have a shed or cover used to store drums, tanks, totes, and other containers securely. They also feature a containment sump that captures liquid spills.

Hardcover Plastic Spill Pallets with Rolltop & Double Doors—Have a roll-top door that is used to access drums and containers. Double doors allow easy loading and unloading of drums.

Hardcover Plastic Spill Pallets with Rolltop Door—Feature a roll-top door that is used to access drums and containers.

Hardcover Plastic Spill Pallets with Gull-Wing Doors—Are built with gull-wing doors that are hinged at the top and swing up to open.

Softcover Plastic Spill Pallet—Holds up to four 55-gal. drums. It has a durable soft-top cover that protects it from the elements.

Hardsided Plastic Spill Containment Hut with Double Doors—Stores up to four 55-gal. drums. It is constructed of high-density polyethylene and has four-way forklift pockets, vented doors, and removable grating and top hooks for moving.

Rolltop & Double Doors
3FTY1

Rolltop Door
45YX90

Rolltop Door
5VD51

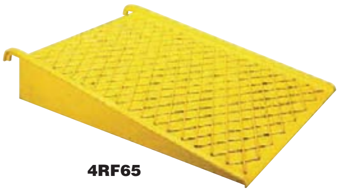
Gull-Wing Doors
9CG52

Softcover Plastic Spill Pallet
52LD43

Spill Containment Hut
5PW03

Spill Cap.	Load Cap.	Dim.	Pallet Color	Includes Drain	Indoor/ Outdoor Use	Forklift Pockets	Brand	Mfr. Model	Item No.
Hardcover Plastic Spill Pallets with Rolltop & Double Doors									
For Number of 55 gal. Drums: 2									
66 gal	4,500 lb	67 ¼ in L x 41 ¼	Yellow	Yes	Outdoor	2-Way	Ultratech	9613	**3FTY2**
66 gal	4,500 lb	in W x 74 in H	Yellow	No	Outdoor	2-Way	Ultratech	9612	**3FTY1**
For Number of 55 gal. Drums: 4									
75 gal	9,000 lb	64 ½ in L x 62	Yellow	Yes	Outdoor	2-Way	Ultratech	9637	**3FTY4**
75 gal	9,000 lb	in W x 79 in H	Yellow	No	Outdoor	2-Way	Ultratech	9636	**3FTY3**
For Number of 55 gal. Drums: 8									
75 gal	9,000 lb	126 in L x 62 in	Yellow	Yes	Outdoor	No Pockets	Ultratech	9651	**3FTY6**
75 gal	9,000 lb	W x 79 in H	Yellow	No	Outdoor	No Pockets	Ultratech	9650	**3FTY5**
Hardcover Plastic Spill Pallets with Rolltop Door									
For Number of 55 gal. Drums: 1									
70 gal	800 lb	36 in L x 36 in	Yellow	Yes	Outdoor	No Pockets	Ultratech	9641	**3FTX9**
70 gal	800 lb	W x 66 in H	Yellow	No	Outdoor	Under Shoulder	Ultratech	9640	**3FTX8**
For Number of 55 gal. Drums: 2									
58 gal	1,000 lb	60 in L x 37 ¼ in	Black	Yes	Indoor, Outdoor	4-Way	Condor	4062-BD-D-C	**45YX91**
58 gal	1,000 lb	W x 72 ¾ in H	Black	No	Indoor, Outdoor	4-Way	Condor	4062-BD-C	**45YX90**
58 gal	2,000 lb		Yellow	No	Indoor, Outdoor	4-Way	ENPAC	4062-YE	**5VD50**
For Number of 55 gal. Drums: 4									
66 gal	2,000 lb	65 in L x 65 in	Black	Yes	Indoor, Outdoor	4-Way	Condor	4064-BD-D-C	**45YX93**
66 gal	2,000 lb	W x 69 in H	Black	No	Indoor, Outdoor	4-Way	Condor	4064-BD-C	**45YX92**
66 gal	6,000 lb		Yellow	No	Indoor, Outdoor	4-Way	ENPAC	4064-YE	**5VD51**
Hardcover Plastic Spill Pallets with Gull-Wing Doors									
For Number of 55 gal. Drums: 2									
66 gal	3,000 lb	57 in L x 30 ½ in W x 63 ½ in H	Yellow	No	Outdoor	2-Way	Ultratech	1082	**8ZEP8**
For Number of 55 gal. Drums: 4									
66 gal	6,000 lb	57 in L x 54 in W x 64 ½ in H	Yellow	No	Outdoor	4-Way	Ultratech	1080	**9CG52**
Softcover Plastic Spill Pallet									
For Number of 55 gal. Drums: 4									
66 gal	8,000 lb	74 in L x 62 in W x 68 in H	Yellow	Yes	Outdoor	4-Way	Eagle	1645STC	**52LD43**
Hardsided Plastic Spill Containment Hut with Double Doors									
For Number of 55 gal. Drums: 4									
66 gal	8,000 lb	57 ½ in L x 57 ½ in W x 72 in H	Yellow	No	Outdoor	4-Way	Eagle	1649	**5PW03**

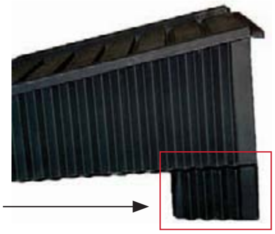
3FTZ2


4RF65

5VD53

Plastic Ramps & Extender for Outdoor Spill Pallets

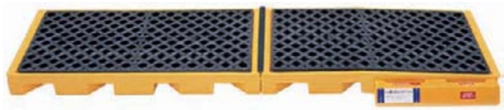
Plastic Ramps connect to spill pallets and make loading and unloading drums and containers easier while also helping to minimize injuries. **Ramp Extender** works with 5VDV3 to raise the ramp to a proper height.


(Ramp sold separately)
5VD52

Load Cap.	Dim.	Compatible Spill Containment Ht.	Color	For Use With Mfr. Model No.	Brand	Mfr. Model	Item No.
Plastic Ramps							
700 lb	55 ½ in L x 28 ½ in W x 8 ¾ in H	8 in	Black	9613, 9612, 9637, 9636, 9650, 9651	Ultratech	676	**3FTZ2**
1,500 lb	45 ½ in L x 32 in W x 8 in H	8 in	Yellow	1649, 1645	Eagle	1689	**4RF65**
1,000 lb	68 in L x 30 ¾ in W x 12 ½ in H	12 in	Black	4062-YE, 4064-YE	ENPAC	5039-BK	**5VD53**
Ramp Extender							
700 lb	29 ½ in L x 8 ½ in W x 5 ½ in H	17 in	Black	4062-YE	ENPAC	5038-BK	**5VD52**

Plastic Spill Deck 35U062

Plastic Spill Deck 45YZ82



Inline Plastic Spill Deck 4LNU7

ULTRATECH Condor EAGLE®

Plastic Spill Containment Decks/Platforms

Plastic Spill Deck with Overflow Bladder 3VAR2

- Support EPA Compliance 40 CFR 264.175
- Support SPCC Compliance, except 45YZ80 to 45YZ83
- Black grate color

Plastic Spill Decks—Suitable for standalone use with small drums and containers. These decks can be connected with other pieces to share spill capacity between units to make a complete EPA-compliant unit for holding 55-gal. drums.

Inline Plastic Spill Decks—Save floor space and make drum and container handling easier. These decks are commonly used where storage against a wall is preferred.

Plastic Spill Decks with Overflow Bladder—Low-profile saves floor space and makes drum and container handling easier. They are connected to a spill-deck sump that has an overflow bladder that automatically unfurls to provide additional spill containment.

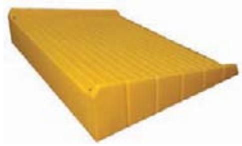
Spill Cap.	Load Cap.	Dim.	Pallet Color	Indoor/ Outdoor Use	Modular Type	Forklift Pockets	Brand	WITHOUT DRAIN Mfr. Model	WITHOUT DRAIN Item No.	WITH DRAIN Mfr. Model	WITH DRAIN Item No.
Plastic Spill Decks											
For Number of 55 gal. Drums: 1											
11 gal	1,500 lb	25 ⅞ in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Modular	No Pockets	Ultratech	1321 NOT DRILLED	**3VAR3**	—	—
15 gal	2,000 lb	26 ¼ in L x 26 ¼ in W x 6 ½ in H	Black	Indoor	Modular	No Pockets	Condor	1633BC	**45YZ80**	1633BDC	**45YZ81**
15 gal	2,000 lb		Black	Indoor	Modular	No Pockets	Eagle	1633B	**35U062**	1633BD	**35U063**
15 gal	2,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1633	**3PA32**	1633D	**35U064**
For Number of 55 gal. Drums: 2											
22 gal	3,000 lb	52 in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Modular	No Pockets	Ultratech	1086	**4LNU3**	—	—
30 gal	5,000 lb	51 ½ in L x 26 ¼ in W x 6 ½ in H	Black	Indoor	Modular	4-Way	Condor	1632BC	**45YZ82**	1632BDC	**45YZ83**
30 gal	5,000 lb		Black	Indoor	Modular	2-Way	Eagle	1632B	**35U059**	1632BD	**35U060**
30 gal	5,000 lb		Yellow	Indoor	Modular	2-Way	Eagle	—	**—**	1632D	**35U061**
30 gal	5,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1632	**4YF76**	—	—
For Number of 55 gal. Drums: 4											
44 gal	6,000 lb	52 in L x 52 in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Modular	No Pockets	Ultratech	1072	**4LNU2**	—	—
60 gal	10,000 lb	51 ½ in L x 51 ½ in W x 6 ½ in H	Black	Indoor	Modular	4-Way	Condor	1635BC	**45YZ84**	1635BDC	**45YZ85**
60 gal	10,000 lb		Black	Indoor	Modular	4-Way	Eagle	1635B	**35U066**	1635BD	**35U067**
60 gal	10,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1635	**35U065**	1635D	**35U068**
60 gal	10,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1634	**4YF77**	—	—
For Number of 55 gal. Drums: 6											
66 gal	9,000 lb	74 ¼ in L x 50 in W x 5 ¼ in H	Yellow	Indoor, Outdoor	Nonmodular	No Pockets	Ultratech	1175	**4LNR2**	—	—
88 gal	10,000 lb	51 ½ in L x 78 ¼ in W x 6 ½ in H	Black	Indoor	Modular	4-Way	Condor	1686BC	**45YZ88**	1686BDC	**45YZ89**
88 gal	10,000 lb		Black	Indoor	Modular	4-Way	Eagle	1686B	**35U080**	1686BD	**35U081**
88 gal	10,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1686	**3KN32**	1686D	**35U082**
For Number of 55 gal. Drums: 8											
75 gal	12,000 lb	98 ¼ in L x 50 in W x 5 ¼ in H	Yellow	Indoor, Outdoor	Nonmodular	No Pockets	Ultratech	1075	**4LNR3**	—	—
121 gal	10,000 lb	51 ½ in L x 103 in W x 6 ½ in H	Black	Indoor	Modular	4-Way	Condor	1688BC	**45YZ90**	1688BDC	**45YZ91**
121 gal	10,000 lb		Black	Indoor	Modular	4-Way	Eagle	1688B	**35U083**	1688BD	**35U084**
121 gal	10,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1688	**3KN33**	1688D	**35U085**
Inline Plastic Spill Decks											
For Number of 55 gal. Drums: 3											
99 gal	4,500 lb	77 ⅞ in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Modular	No Pockets	Ultratech	2360	**4LNU6**	—	—
For Number of 55 gal. Drums: 4											
60 gal	10,000 lb	26 ¼ in L x 103 ½ in W x 6 ½ in H	Black	Indoor	Modular	4-Way	Condor	1647BC	**45YZ86**	1647BDC	**45YZ87**
60 gal	10,000 lb		Black	Indoor	Modular	4-Way	Eagle	1647B	**35U076**	1647BD	**35U077**
60 gal	10,000 lb		Yellow	Indoor	Modular	4-Way	Eagle	1647	**4RF62**	1647D	**35U078**
110 gal	6,000 lb	104 in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Modular	No Pockets	Ultratech	2361	**4LNU7**	—	—
For Number of 55 gal. Drums: 5											
121 gal	7,500 lb	129 ⅞ in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Nonmodular	No Pockets	Ultratech	2333	**4LNU8**	—	—
For Number of 55 gal. Drums: 6											
66 gal	9,000 lb	156 in L x 25 ⅞ in W x 5 ¾ in H	Yellow	Indoor	Modular	No Pockets	Ultratech	2334	**4LNU9**	—	—
Plastic Spill Decks With Overflow Bladder											
For Number of 55 gal. Drums: 1											
77 gal	1,500 lb	25 ⅞ in L x 30 ½ in W x 5 ¾ in H	Yellow	Indoor	Nonmodular	No Pockets	Ultratech	1320	**3VAR2**	—	—
For Number of 55 gal. Drums: 2											
88 gal	3,000 lb	52 in L x 26 in W x 5 ¾ in H	Yellow	Indoor	Nonmodular	No Pockets	Ultratech	2329	**4LNT7**	—	—
For Number of 55 gal. Drums: 4											
110 gal	6,000 lb	52 in L x 56 ⅝ in W x 5 ¾ in H	Yellow	Indoor, Outdoor	Nonmodular	No Pockets	Ultratech	2330	**4LNT6**	—	—

ULTRATECH Condor EAGLE®

Plastic Ramps & Bladder for Spill Decks/Platforms

Ramps contain spills and allow for the loading and unloading of large tanks and storage drums. They connect to spill decks/platforms and make loading and unloading drums and containers easier while also helping to minimize injuries.

Flexible plastic replacement bladder is an attachment that increases sump capacity to ensure spill decks/platforms are EPA and SPCC compliant.



4LNT1

45ZA01

9PRK2

Load Cap.	Dim.	Compatible Spill Containment Ht.	Color	For Use With Mfr. Model No.	Brand	Mfr. Model	Item No.
Plastic Ramps							
600 lb	24 in L x 32 in W x 5 ¾ in H	5 ½ in	Yellow	1086, 1072, 1175, 1075, 2360, 2361, 2333, 2334, 1320, 2329, 2330	Ultratech	1089	**4LNT1**
1,500 lb	45 ½ in L x 32 in W x 8 in H	8 in	Black	45YZ80 to 45YZ91	Condor	1689BC	**45ZA01**
1,500 lb		8 in	Black	1632, 1635, 1634, 1686, 1688, 1647	Eagle	1689B	**35U086**
1,500 lb		8 in	Yellow		Eagle	1689	**4RF65**

Spill Cap.	Dim.	Color	For Use With Mfr. Model No.	Brand	Mfr. Model	Item No.
Flexible Plastic Replacement Bladder						
66 gal	66 in L x 65 ½ in W x 4 ½ in H	Yellow	1320, 2329, 2330	Ultratech	6340	**9PRK2**

Plastic
4LNV6

Nestable
45YX88

Double Stack
4LNT2

Modular
53CN85

Plastic IBC Spill Containment Pallets

- Support EPA Compliance 40 CFR 264.175
- Support SPCC Compliance
- Black grate color

IBC (Intermediate Bulk Container) spill containment pallets hold and store IBC containers and are much larger than regular spill pallets to accommodate the higher volume of liquid found in IBC containers. They have a sump to capture liquids in the event a container on the pallet leaks or spills.

Nestable Plastic IBC Spill Pallets—Can be stacked to save space. Pallets can be moved with a forklift once they are stacked.

Double Stack Plastic IBC Spill Pallets—Allow users to stack pallets to maximize storage.

Modular Plastic IBC Spill Pallets—Can be connected to share capacity. The shared capacity allows these pallets to have a lower profile and smaller footprint than standard IBC spill pallets.

Note: Products do not include any pictured containers.

Spill Cap.	Load Cap.	Dim.	Includes Drain	Pallet Color	Indoor/ Outdoor Use	Forklift Pockets	Supports NPDES Compliance	Brand	Mfr. Model	Item No.
Plastic IBC Spill Pallets										
For Number of IBC: 1										
330 gal	3,000 lb	56 ½ in L x 56 ½ in W x 48 in H	No	Yellow	Indoor, Outdoor	4-Way	Yes	ENPAC	5460-YE	**31DM15**
330 gal	3,000 lb		Yes	Yellow		4-Way	Yes	ENPAC	5460-YE-D	**31DM16**
365 gal	8,500 lb	62 in L x 62 in W x 28 in H	No	Yellow		2-Way	No	Ultratech	1157	**4LNV6**
365 gal	8,500 lb		Yes	Yellow		2-Way	No	Ultratech	1158	**4LNV7**
400 gal	10,000 lb	67 in L x 67 in W x 26 in H	No	Yellow	Indoor	No Pockets	No	Eagle	1683	**5AB20**
400 gal	10,000 lb		Yes	Yellow		No Pockets	No	Eagle	1683D	**35U079**
For Number of IBC: 2										
385 gal	8,000 lb	110 in L x 55 in W x 20 in H	No	Yellow	Indoor, Outdoor	4-Way	Yes	ENPAC	5482-YE	**31DM20**
385 gal	8,000 lb		Yes	Yellow		4-Way	Yes	ENPAC	5482-YE-D	**31DM21**
400 gal	20,000 lb	77 ½ in L x 118 in W x 20 in H	No	Yellow	Indoor	No Pockets	No	Eagle	1684	**5AB21**
535 gal	8,000 lb	124 ½ in L x 61 ⅝ in W x 22 in H	No	Yellow	Indoor, Outdoor	2-Way	No	Ultratech	1140	**4LNP1**
535 gal	8,000 lb		Yes	Yellow		2-Way	No	Ultratech	1144	**4LNP3**
750 gal	8,000 lb	113 in L x 71 in W x 32 in H	No	Yellow		4-Way	Yes	ENPAC	5480-YE	**31DM18**
750 gal	8,000 lb		Yes	Yellow		4-Way	Yes	ENPAC	5480-YE-D	**31DM19**
Nestable Plastic IBC Spill Pallets										
For Number of IBC: 1										
385 gal	3,000 lb	73 in L x 80 ½ in W x 29 ½ in H	No	Black	Indoor, Outdoor	4-Way	Yes	Condor	5469-BD-C	**45YX88**
385 gal	3,000 lb		Yes	Black		4-Way	Yes	Condor	5469-BD-D-C	**45YX89**
385 gal	8,000 lb	81 in L x 75 ½ in W x 29 in H	Yes	Yellow		4-Way	Yes	ENPAC	5469-YE-D	**31DM17**
385 gal	8,000 lb		No	Yellow		4-Way	Yes	ENPAC	5469-YE	**4TAL1**
Double Stack Plastic IBC Spill Pallets										
For Number of IBC: 1										
400 gal	16,000 lb	58 ¾ in L x 58 ¾ in W x 33 in H	No	Yellow	Indoor, Outdoor	No Pockets	No	Ultratech	1057	**4LNT2**
For Number of IBC: 2										
400 gal	16,000 lb	58 ¾ in L x 58 ¾ in W x 33 in H	Yes	Yellow	Indoor, Outdoor	No Pockets	No	Ultratech	1058	**53CN83**
Modular Plastic IBC Spill Pallets										
For Number of IBC: 2										
280 gal	9,000 lb	186 in L x 62 in W x 8 ¾ in H	No	Yellow	Indoor	No Pockets	No	Ultratech	1125	**53CN85**
For Number of IBC: 3										
355 gal	9,000 lb	248 in L x 62 in W x 8 ¾ in H	No	Yellow	Indoor	No Pockets	No	Ultratech	1126	**53CN86**
For Number of IBC: 4										
365 gal	9,000 lb	278 in L x 62 in W x 8 ¾ in H	No	Yellow	Indoor, Outdoor	No Pockets	No	Ultratech	1127	**53CN87**
For Number of IBC: 5										
375 gal	9,000 lb	310 in L x 62 in W x 8 ¾ in H	No	Yellow	Indoor	No Pockets	No	Ultratech	1128	**53CN88**

Rolltop & Double Doors
3FTY7

Modular with Rolltop & Double Doors
4LNR8

Softcover Plastic Spill Pallet
402D35

Covered Plastic IBC Spill Containment Pallets

- Support EPA Compliance 40 CFR 264.175
- Support SPCC and NPDES Compliance
- For outdoor use
- Black grate color

Covered IBC (Intermediate Bulk Container) spill pallets are used outdoors to protect contents from the elements or in areas where unauthorized access is a concern. These covered pallets with a sump contain liquids in the event an IBC container on the pallet leaks or spills. These pallets are larger than regular spill pallets to accommodate the volume of IBC containers, and are typically moved with a forklift.

Hardcover Plastic IBC Spill Pallets with Rolltop and Double Doors—Hold and store drums, tanks, totes, and other containers. The roll-top and double doors allow easy loading and unloading of drums.

Modular Hardcover Plastic IBC Spill Pallets with Rolltop and Double Doors—Can also be connected together to share capacity. The shared capacity allows these pallets to have a lower profile and smaller footprint than standard IBC spill pallets.

Softcover Plastic IBC Spill Pallets—Are chemical-resistant. Their extra wide platform shelf accommodates IBC units up to 50 in square.

Spill Cap.	Load Cap.	For Number of 55 gal. Drums	Dim.	Includes Drain	Pallet Color	Forklift Pockets	Brand	Mfr. Model	Item No.
Hardcover Plastic IBC Spill Pallets with Rolltop & Double Doors									
For Number of IBC: 1									
365 gal	8,500 lb	1	64 ½ in L x 62 in W x 96 in H	No	Gray, Yellow	2-Way	Ultratech	1162	**3FTY7**
365 gal	8,500 lb	1		Yes	Gray, Yellow	2-Way	Ultratech	1161	**3FTY8**
For Number of IBC: 2									
535 gal	8,500 lb	2	128 in L x 67 in W x 96 in H	No	Black, Gray, Yellow	2-Way	Ultratech	1148	**3FTY9**
535 gal	8,500 lb	2		Yes	Black, Gray, Yellow	2-Way	Ultratech	1149	**3FTZ1**
Modular Hardcover Plastic IBC Spill Pallets with Rolltop & Double Doors									
For Number of IBC: 2									
280 gal	9,000 lb	2	126 in L x 93 in W x 79 in H	No	Yellow	No Pockets	Ultratech	1165	**4LNR8**
For Number of IBC: 3									
355 gal	9,000 lb	3	188 in L x 93 in W x 79 in H	No	Black, Gray, Yellow	No Pockets	Ultratech	1166	**9E472**
For Number of IBC: 4									
365 gal	9,000 lb	4	250 in L x 93 in W x 79 in H	No	Black, Gray, Yellow	No Pockets	Ultratech	1167	**8PKU8**
For Number of IBC: 5									
375 gal	9,000 lb	5	312 in L x 62 in W x 79 in H	No	Black, Gray, Yellow	No Pockets	Ultratech	1168	**8EKJ0**
Softcover Plastic IBC Spill Pallets									
For Number of IBC: 1									
400 gal	10,000 lb	0	67 19/64 in L x 84 ⅜ in W x 91 ⅞ in H	No	Yellow	No Pockets	Eagle	1683STC	**402D35**

IBC Tote Dispensing Systems

- Support EPA Compliance 40 CFR 264.175
- Support SPCC Compliance
- 491N37 and 491N38 support NPDES Compliance

Dispensing systems hold IBC (Intermediate Bulk Container) totes to facilitate dispensing of liquids. These systems include a spill pallet base that contains spills and a tote stand to place the IBC tote upon.

Note: Product does not include any pictured containers.

Steel
4UDX5

Polyethylene
491N37

Number of IBC Totes	Spill Cap.	Load Cap.	Color	Drain Included	Product Weight	Pallet Dim.	Indoor/ Outdoor Use	Forklift Pockets	Brand	Mfr. Model	Item No.
Steel Grate and Body Material											
1	400 gal	10,000 lb	Gray	Yes	702 lb	76 in L x 51 in W x 29 in H	Indoor	4-Way	Little Giant	SST-IBC	**4UDX5**
2	400 gal	10,000 lb	Gray	Yes	702 lb	99 in L x 51 in W x 23 in H	Indoor	4-Way	Little Giant	SST-IBC-2	**4UDX6**
Polyethylene Grate and Body Material											
2	330 gal	8,000 lb	Yellow	No	220 lb	72 in x 98 in x 17 ¼ in	Indoor, Outdoor	4-Way	ENPAC	5483-YE	**491N37**
2	330 gal	8,000 lb	Yellow	Yes	220 lb	72 in x 98 in x 17 ¼ in	Indoor, Outdoor	4-Way	ENPAC	5483-YE-D	**491N38**

Plastic Modular Drum & Pail Dispensing Racks

- Support EPA Compliance 40 CFR 264.175
- Support NPDES and SPCC Compliance
- For indoor or outdoor use

Racks provide horizontal 55-gal. drum storage for easy dispensing and spill containment. The base is designed to contain spills that may occur during dispensing. Platform sections can be linked together to provide modular workstations. 53CN69, 53CN71, and 53CN73 include 1 pallet with a drain.

Note: Products do not include any pictured containers.

Holds Number of Drums/ Containers	Product Type	Spill Cap.	Load Cap.	Built In Sump	Forklift Pockets	Mfr. Model	Item No.
ENPAC Modular Drum Dispensing Racks							
1	Add-On Rack	—	800 lb	No	—	6007-YE	**3NJN7**
1	Rack Base	66 gal	1,600 lb	Yes	—	6006-YE	**3NJN6**
2	Add-On Rack	—	1,500 lb	No	—	6002-YE	**3KP17**
2	Complete Rack System	66 gal	1,600 lb	Yes	—	600673-YE	**4TAL6**
2	Rack Base	102 gal	3,000 lb	Yes	—	6000-YE	**3KP16**
—	Shelf	—	60 lb	No	—	6003-YE	**3KP18**
Ultratech Modular Drum Dispensing Racks							
1	Complete Rack System	66 gal	750 lb	Yes	Yes	2387	**53CN69**
1	Complete Rack System	66 gal	750 lb	Yes	Yes	2386	**53CN68**
2	Complete Rack System	66 gal	1,500 lb	Yes	Yes	2384	**53CN71**
2	Complete Rack System	66 gal	1,500 lb	Yes	Yes	2383	**53CN70**
2	Rack Base	—	750 lb	No	—	9030	**53CN74**
2	Rack Base	—	1,500 lb	No	—	2389	**53CN75**
4	Complete Rack System	66 gal	3,000 lb	Yes	Yes	2381	**53CN73**
4	Complete Rack System	66 gal	3,000 lb	Yes	Yes	2380	**53CN72**
—	Locator Pins	—	—		—	2391	**53CN77**
—	Shelf	—	—	No	—	2390	**53CN76**
ENPAC Modular Pail Dispensing Racks							
2	Rack Base	8 gal	200 lb	Yes	—	6010-YE	**3NJG3**
2	Add-On Rack	—	100 lb	No	—	6012-YE	**3NJG5**

ENPAC® Complete Rack System
4TAL6

Ultratech® Complete Rack System
53CN70

ENPAC® Pail Dispensing Rack
3NJG3

Plastic Drum Dispensing Spill Collectors

- Yellow color

Collectors hold drums and capture leaks and spills. Hard molded plastic helps protect drums from damage. **Mobile Drum Spill Collectors—**Kits include a 55-gal drum, drum funnel, and a drum dolly with wheels at the base for maneuverability. 31DL70 and 4HRD4 have a steel drum while 31DL71 and 4HRD5 have a polyethylene drum.

Note: Products do not include any pictured containers.

Stationary
53CP18

Mobile
31DL70

Description	Spill Cap.	Load Cap.	L	W	D	Indoor/ Outdoor Use	Std.	Brand	Mfr. Model	Item No.
Stationary Drum Spill Collectors										
Spill Collector	65 gal	1,000 lb	31 in	31 in	33 in	Indoor	EXCEEDS EPA REQUIREMENTS	Eagle	1612	**3KN23**
Spill Collector	66 gal	1,200 lb	34 in	34 in	27 ¼ in	Indoor, Outdoor	SPCC, 40 CFR 264.175	Ultratech	1040	**53CP16**
Spill Collector	70 gal	600 lb	33 in	33 in	31 in	Indoor	EPA 40 CFR 264.175, SPCC, NPDES	ENPAC	8075-YE	**31DL72**
Spill Collector with Drain	66 gal	1,200 lb	34 in	34 in	27 ¼ in	Indoor, Outdoor	SPCC, 40 CFR 264.176	Ultratech	1043	**53CP17**
Spill Collector with Fork Pockets	66 gal	1,200 lb	32 ½ in	32 ½ in	28 ½ in	Indoor, Outdoor	SPCC, 40 CFR 264.177	Ultratech	1041	**53CP18**
Spill Collector with Fork Pockets and Drain	66 gal	1,200 lb	32 ½ in	32 ½ in	28 ½ in	Indoor, Outdoor	SPCC, 40 CFR 264.178	Ultratech	1044	**53CP19**
Mobile Drum Spill Collectors										
Spill Collector Kit	70 gal	600 lb	33 in	33 in	42 in	Indoor	EPA 40 CFR 264.175, SPCC, NPDES	ENPAC	8001-YE	**31DL70**
Spill Collector Kit	70 gal	600 lb	33 in	33 in	42 in	Indoor	EPA 40 CFR 264.175, SPCC, NPDES	ENPAC	8002-YE	**31DL71**
Spill Collector Kit	103 gal	650 lb	31 ¾ in	32 in	—	Indoor	EPA 40 CFR 264.175, SPCC, NPDES	ENPAC	8081-YE	**4HRD4**
Spill Collector Kit	103 gal	650 lb	31 ¾ in	32 in	—	Indoor	EPA 40 CFR 264.175, SPCC, NPDES	ENPAC	8080-YE	**4HRD5**

Plastic Drum & Pail Dispensing Trucks

- Yellow color

Dispensing trucks have wheels for transporting drums and containers. They are built with a spill containment sump/basin that captures leaks and spills. These trucks allow drums and pails to be set within the sump while dispensing.

All Terrain Drum Dispensing Truck—Includes solid rubber wheels and a more rugged dolly to handle outdoor terrain.

Note: Products do not include any pictured containers.

All Terrain Drum Dispensing
3KP22

Drum Dispensing
45UW93

Pail Dispensing
3NJG4

For Container Type	For Drum Size	Spill Cap.	Load Cap.	Overall Dim.	Includes	Indoor/ Outdoor Use	Std.	Brand	Mfr. Model	Item No.
All Terrain Drum Dispensing Truck										
Drum	55 gal	70 gal	600 lb	68 in x 31 ½ in x 27 in	10 in Solid Rubber Wheels, Double Loop Straps	Indoor, Outdoor	EPA 40 CFR 264.175, SPCC, UFC, NPDES	ENPAC	5300-YE-A	**3KP22**
Drum Dispensing Trucks										
Drum	55 gal	70 gal	600 lb	68 in x 31 ½ in x 27 in	10 in Polyolefin Wheels, Double Loop Straps	Indoor	EPA 40 CFR 264.175, SPCC, UFC, NPDES	ENPAC	5300-YE	**3KP15**
Drum	55 gal	70 gal	600 lb	69 in x 31 ¾ in x 26 ½ in	Drum Straps	Indoor, Outdoor	EPA 40 CFR 264.175	Eagle	1617Y	**45UW93**
Pail Dispensing Truck										
Pail	6.5 gal	8 gal	200 lb	31 in x 29 in x 15 ¼ in	Wheels and Handle	Indoor	EPA 40 CFR 264.175, SPCC, UFC, NPDES	ENPAC	6011-YE-M	**3NJG4**
Replacement Handle										
Black Replacement Handle for 3NJG4								ENPAC	6015-BK	**3NJG6**

Spill Berm Full Kit
30RF31
(Shown assembled)

Vented Corner Sections
30PW90

Drive-In Spill Berm with Flexible Stakes, Endcaps & U-Frame Sidewall Supports
20JJ54

Drive-In Spill Berm with Self-Rising Sidewalls
5PTT8

Spill Berm with Built-In Strut Supports
3NJE1

Spill Berm with L-Bracket Supports
45YX96

Spill Containment Berms

- Support EPA Compliance 40 CFR 264.175
- New Pig models also Support Compliance 40 CFR 112.7 and 40 CFR 122.26
- Support SPCC Compliance

These berms are deployed on flat surfaces to contain leaks, spills, or washdown liquids. They help protect people from hazardous slips and falls, and keep liquids away from designated areas, machinery, and drains.

Spill berms and sections create long-term spill containment in different sizes or shapes. Kits include the components needed to build a complete spill berm. For indoor or outdoor use.

Drive-over spill berms allow vehicles to quickly enter and exit areas without having to manually lower the walls of the spill berm.

Collapsible spill berms have foam sidewalls that fold down to allow easy drive-in and out access. The sidewalls lay flat until liquid is spilled in the berm and then rise to accommodate the level of the liquid.

Product Type	Dim.	Components Included	Color	Brand	Mfr. Model	Item No.
Spill Berms						
1 ½ in Wall Height						
Full Kit	25 ft x 4.5 in x 1.5 in	(2) Straight Sections, (4) Corner Sections, (6) Floor Sealants	Yellow	Pig	PLR511	**30PW86**
Corner Section	6.75 in x 4.5 in x 1.5 in	(2) Corner Sections	Yellow	Pig	PLR279	**30PW83**
Straight Section	15 ft x 4.5 in x 1.5 in	(1) Straight Section	Yellow	Pig	PLR278	**30PW82**
Wall End	6 in x 4.5 in x 1.5 in	(2) Barrier Wall Ends	Yellow	Pig	PLR114	**30PW74**
2 in Wall Height						
Full Kit	25 ft x 5.5 in x 2 in	(2) Straight Sections, (4) Corner Sections, (6) Floor Sealants	Yellow	Pig	PLR222	**30RF31**
Corner Section	7.25 in x 5.5 in x 2 in	(2) Corner Sections	Yellow	Pig	PLR265	**30PW79**
Vented Corner Section	7.25 in x 5.5 in x 2 in	(2) Corner Sections	Yellow	Pig	PLR103	**30PW71**
Straight Section	15 ft x 5.5 in x 2 in	(1) Straight Section	Yellow	Pig	PLR264	**30PW78**
Wall End	3 in x 5.5 in x 2 in	(2) Barrier Wall Ends	Yellow	Pig	PLR117	**30PW75**
4 in Wall Height						
Corner Section	9.5 in x 7.25 in x 4 in	(2) Corner Sections	Yellow	Pig	PLR263	**30PW77**
Straight Section	5 ft x 7.25 in x 4 in	(2) Straight Sections	Yellow	Pig	PLR258	**30PW76**
Self Rising Drive Over Straight Barrier	9 ft x 7 in x 4 in	(1) Straight Section	Orange	Pig	PLR518	**45GP18**
Wall End	10 in x 7.5 in x 4 in	(2) Barrier Wall Ends	Yellow	Pig	PLR512	**30PW87**
6 in Wall Height						
Corner Section	10.5 in x 9 in x 6 in	(2) Corner Sections	Yellow	Pig	PLR277	**30PW81**
Straight Section	5 ft x 9 in x 6 in	(2) Straight Sections	Yellow	Pig	PLR276	**30PW80**
Wall End	11 in x 9 in x 6 in	(2) Barrier Wall Ends	Yellow	Pig	PLR513	**30PW88**
Drive-Over Spill Berms						
1 ½ in Wall Height						
Vented Corner Section	6.75 in x 4.5 in x 1.5 in	(2) Corner Sections	Orange	Pig	PLR515	**30PW90**
Straight Section	12 ft x 4.5 in x 1.5 in	(1) Straight Section	Orange	Pig	PLR514	**30PW89**
Wall End	6 in x 4.5 in x 1.5 in	(2) Barrier Wall Ends	Orange	Pig	PLR516	**30PW91**
2 in Wall Height						
Vented Corner Section	11.25 in x 5.5 in x 2 in	(2) Corner Sections	Orange	Pig	PLR108	**30PW72**
Straight Section	12 ft x 5.5 in x 2 in	(1) Straight Section	Orange	Pig	PLR283	**30PW84**
Wall End	5.5 in x 5.5 in x 2 in	(2) Barrier Wall Ends	Orange	Pig	PLR109	**30PW73**

Dim.	Spill Cap.	Material	Color	Material Thickness	Indoor/ Outdoor Use	Brand	Mfr. Model	Item No.
Collapsible Spill Berms								
Drive-In Spill Berms with Flexible Stakes, Endcaps & U-Frame Sidewall Supports								
12 ft W x 60 ft L	5,385 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8505	**20JJ54**
15 ft W x 66 ft L	7,405 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8507	**4LNV5**
Drive-In Spill Berms with Foam Endcaps & Sidewall Struts								
10 ft W x 26 ft L	1,944 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-10261-BK-SF	**1EFH8**
12 ft W x 36 ft L	3,231 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-12361-BK-SF	**1EFJ2**
14 ft W x 54 ft L	5,654 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-14541-BK-SF	**1EFH9**
Drive-In Spill Berms with Self-Rising Sidewalls								
4 ft W x 6 ft L	179 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8430	**5PTT8**
6 ft W x 6 ft L	269 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8431	**5PTT9**
10 ft W x 10 ft L	748 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8432	**5PTU0**
12 ft W x 26 ft L	2,333 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8437	**5PTU1**
15 ft W x 50 ft L	5,610 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8433	**5PTU2**
Spill Berms with Built-In Strut Supports								
4 ft W x 4 ft L	80 gal	PVC	Black/Yellow	22 oz	Indoor, Outdoor	ENPAC	57-448-YE-SU	**3NJE1**
4 ft W x 6 ft L	120 gal	PVC	Black/Yellow	22 oz	Indoor, Outdoor	ENPAC	57-468-YE-SU	**3NJE2**
4 ft W x 8 ft L	160 gal	PVC	Black/Yellow	22 oz	Indoor, Outdoor	ENPAC	57-488-YE-SU	**3NJE3**
6 ft W x 6 ft L	180 gal	PVC	Black/Yellow	28 oz	Indoor, Outdoor	ENPAC	57-668-YE-SU	**24N335**
8 ft W x 8 ft L	320 gal	PVC	Black/Yellow	22 oz	Indoor, Outdoor	ENPAC	57-888-YE-SU	**3NJE4**
8 ft W x 10 ft L	400 gal	PVC	Black/Yellow	22 oz	Indoor, Outdoor	ENPAC	57-8108-YE-SU	**3NJE5**
10 ft W x 10 ft L	501 gal	PVC	Black/Yellow	28 oz	Indoor, Outdoor	ENPAC	57-10108-YE-SU	**24N336**
4 ft W x 6 ft L	119 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-468-BK-SU	**24N339**
4 ft W x 6 ft L	179 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-461-BK-SU	**1EFH6**
4 ft W x 8 ft L	159 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-488-BK-SU	**24N340**
6 ft W x 6 ft L	269 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-661-BK-SU	**1EFH7**
8 ft W x 8 ft L	319 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-888-BK-SU	**24N341**
10 ft W x 10 ft L	748 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-10101-BK-SU	**1EFH4**
12 ft W x 12 ft L	1,077 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-12121-BK-SU	**1EFH5**
16 ft W x 16 ft L	1,914 gal	Geology, XR	Black/Yellow	30 oz	Indoor, Outdoor	ENPAC	48-16161-BK-SU	**24N342**
Spill Berms with L-Bracket Supports								
4 ft W x 6 ft L	179 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8250	**20JJ69**
6 ft W x 6 ft L	269 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8251	**20JJ70**
10 ft W x 10 ft L	748 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8252	**20JJ71**
15 ft W x 50 ft L	5,610 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8254	**20JJ73**
4 ft W x 4 ft L	119 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-44-AL-L-C	**45YX94**
4 ft W x 6 ft L	179 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-46-AL-L-C	**45YX95**
4 ft W x 8 ft L	235 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-48-AL-L-C	**45YX96**
6 ft W x 6 ft L	269 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-66-AL-L-C	**45YX97**
8 ft W x 8 ft L	478 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-88-AL-L-C	**45YX98**
8 ft W x 10 ft L	595 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-810-AL-L-C	**45YX99**
10 ft W x 10 ft L	748 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-1010-AL-L-C	**45YY01**
12 ft W x 12 ft L	1,077 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-1212-AL-L-C	**45YY02**
12 ft W x 26 ft L	2,333 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-1226-AL-L-C	**45YY03**
12 ft W x 50 ft L	4,488 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-1250-AL-L-C	**45YY04**
15 ft W x 50 ft L	5,610 gal	Polyethylene	Black	40 mil	Indoor, Outdoor	Condor	BD-1550-AL-L-C	**45YY05**
Spill Berms with U-Frame Sidewall Supports								
4 ft W x 6 ft L	179 gal	Copolymer 2000	Black	30 mil	Outdoor	Ultratech	8405	**20JJ57**

Spill Containment Dikes

- Support SPCC Compliance, except for 6DMY1 and 6DMY2

Components Included	Material	Color	L	Shape	Indoor/ Outdoor Use	Brand	Mfr. Model	Item No.
Spill Dikes for Smooth Surfaces								
1 in Height								
(1) Connector	Polyethylene	Black	7 in	Triangular	Indoor, Outdoor	Ultratech	2101	**3EWX4**
1 ⅜ in Height								
(1) Straight Section	Polyurethane	Orange	10 ft	Triangular	Indoor, Outdoor	Ultratech	2052	**3NJV3**
(1) Straight Section		Yellow	10 ft	Triangular	Indoor	Pig	PLR212	**30PW57**
2 ¼ in Height								
(1) Corner Section	Polyethylene	Orange	4 in	Triangular	Indoor, Outdoor	Ultratech	2102	**3EWX5**
(1) Straight Section	Polyurethane	Black	10 ft	Triangular	Indoor	Pig	PLR204-BK	**30PW53**
(1) Connector		Black	4 in	Triangular	Indoor	Pig	PLR205	**30PW55**
(1) Straight Section		Black	11 ft	Triangular	Indoor, Outdoor	Ultratech	2050	**3EWX3**
(1) Straight Section		Orange	10 ft	Triangular	Indoor, Outdoor	Ultratech	2100	**3EWX2**
(1) Straight Section		Yellow	10 ft	Triangular	Indoor	Pig	PLR204-YW	**30PW54**
3 in Height								
(2) Straight Sections	Polyurethane	Black	5 ft	Triangular	Indoor	Pig	PLR267-BK	**30PW64**
(1) Corner Section		Black	5 in	Triangular	Indoor	Pig	PLR268-BK	**30PW66**
(2) Straight Sections		Yellow	5 ft	Triangular	Indoor	Pig	PLR267-YW	**30PW65**
4 ½ in Height								
(1) Straight Section	Polyurethane	Green	5 ft	Triangular	Indoor	Pig	PLR253-NG	**30PW62**
(1) Straight Section		Orange	5 ft	Triangular	Indoor, Outdoor	Ultratech	2054	**3EWX6**
6 ¾ in Height								
(1) Straight Section	Polyurethane	Green	5 ft	Triangular	Indoor	Pig	PLR254-NG	**30PW63**
Spill Dike for Rough Surfaces								
2 ¼ in Height								
(1) Straight Section, (1) Connector	Polyurethane	Yellow	10 ft	Triangular	Indoor	Pig	PLR230	**30PW61**
Doorway Barrier Dikes for Smooth Surfaces								
1 ½ in Height								
(1) Straight Section	Polyurethane	Yellow	4 ft	Triangular	Indoor	Pig	PLR213	**30PW58**
4 ½ in Height								
(1) Straight Section	Plastic with Rubber Seal	Green, Yellow	3 ½ ft	Rectangular	Indoor	Tough Guy	6DMY1	**6DMY1**
(1) Straight Section		Green, Yellow	5 ½ ft	Rectangular	Indoor	Tough Guy	6DMY2	**6DMY2**
Tabletop Spill Dikes for Smooth Surfaces								
¾ in Height								
(1) Straight Section	Non-Absorbing Urethane	Orange	4 ft	Triangular	Indoor	Ultratech	2051	**3NJV4**
(1) Straight Section	Polyurethane	Yellow	4 ft	Triangular	Indoor	Pig	PLR229	**30PW60**
Drive-Over Spill Dikes for Smooth Surfaces								
1 in Height								
(1) Straight Section	Ethylene Propylene Diene Monomer, Polyurethane	Black	10 ft	Triangular	Indoor	Pig	PLR350	**30PW67**
(1) Corner Section		Black	6 in	Triangular	Indoor	Pig	PLR351	**30PW68**
(1) Straight Section		Black	5 ft	Triangular	Indoor	Pig	PLR352	**30PW69**

Spill Dikes are used to form a temporary barrier to contain spills. They are modular in construction and have interlocking components.

Spill Dike for Rough Surfaces features a tacky bottom layer that seals tight to rough surfaces.

Doorway Barrier Dikes create a barrier to contain chemicals and liquids. They fit most doorways and are easy to install.

Tabletop Spill Dikes contain spills on workbenches or in labs. Have a low-profile for small spills on smooth surfaces. Polyurethane material resists water, oil, and many chemicals.

Drive-Over Spill Dikes create a flexible and leakproof barrier that contains leaks and diverts stormwater. Can be driven over and are built with a skin that withstands heavy traffic and resists UV rays. Urethane bonds to concrete and smooth surfaces without adhesive.

Spill Dike for Smooth Surfaces 3EWX2

Spill Dike for Rough Surfaces 30PW61

Doorway 30PW58

Plastic Spill Containment Sumps/Basins

Hold drums, tanks, or other liquid-filled containers. Sumps have a durable, polyethylene construction that will not rust or corrode. Capture unwanted leaks and spills.

Outdoor Spill Containment Sumps— Have a hard-top cover that protects contents from the elements.

Dolly—For transporting Eagle 3KN25 and 3KN26. Features welded construction with 4 swivel wheels.

Note: Products do not include any pictured containers.

Spill Cap.	Load Cap.	Dim.	Color	Includes Drain	Indoor/ Outdoor Use	Forklift Pockets	Std.	Brand	Mfr. Model	Item No.
Spill Containment Sumps										
For Number of 55 gal. Drums: 4										
17.5 gal	—	26 ¼ in L x 26 ¼ in W x 6 ½ in H	Yellow	No	Indoor	—	—	Eagle	1636	**15Z011**
For Number of 55 gal. Drums: 2										
34 gal	5,000 lb	51 ½ in x 26 ¼ in x 6 ½ in	Yellow	No	Indoor	No Pocket	—	Eagle	1631	**5PW01**
130 gal	1,200 lb	60 ½ in x 35 in x 25 ½ in	Yellow	No	Outdoor	Yes	EPA 40 CFR 264.175, NPDES, SPCC, UFC	ENPAC	2106-YE	**31DM86**
130 gal	1,200 lb		Yellow	Yes	Outdoor	Yes		ENPAC	2106-YE-D	**31DM87**
264 gal	1,200 lb	60 ½ in x 35 in x 42 in	Yellow	No	Outdoor	Yes		ENPAC	2078-YE	**31DM84**
264 gal	1,200 lb		Yellow	Yes	Outdoor	Yes		ENPAC	2078-YE-D	**31DM85**
For Number of 55 gal. Drums: 4										
66 gal	5,000 lb	51 ½ in x 51 ½ in x 8 in	Yellow	Yes	Indoor	No Pocket	EPA 40 CFR 264.175	Eagle	1638	**3BE85**
Horizontal Tank Spill Containment Sumps										
For Number of 55 gal. Drums: 1										
360 gal	2000 lb.	85 in x 44 in x 29 in	Black	No	Outdoor	No Pocket	EPA 40 CFR 264.175, SPCC, SWPP - NPDES, 40 CFR 122.26 (1999)	Ultratech	2800	**3FTW9**
360 gal	2000 lb.		Black	Yes	Outdoor	No Pocket		Ultratech	2801	**3FTW8**
373 gal	10,000 lb	84 in x 44 in x 30 in	Black	No	Indoor	No Pocket	EPA, SPCC	Eagle	16275	**35U087**
373 gal	10,000 lb		Black	No	Indoor	No Pocket	—	Condor	16275C	**45YZ98**
373 gal	10,000 lb		Black	Yes	Indoor	No Pocket	EPA, SPCC	Eagle	16275D	**35U088**
373 gal	10,000 lb		Black	Yes	Indoor	No Pocket	—	Condor	16275DC	**45YZ99**
635 gal	10,000 lb	88 in x 62 in x 33 in	Black	No	Indoor	No Pocket	EPA, SPCC	Eagle	16550	**35U089**
635 gal	10,000 lb		Black	Yes	Indoor	No Pocket		Eagle	16550D	**35U090**
Flexible Wall Horizontal Tank Spill Containment Sumps										
For Number of 55 gal. Drums: 1										
400 gal	—	102 in x 48 in x 24 in	Black	No	Outdoor	No Pocket	EPA 40 CFR 264.175, SPCC	Ultratech	2850	**53CN42**
For Number of 55 gal. Drums: 1										
400 gal	—	102 in x 48 in x 24 in	Black	Yes	Outdoor	No Pocket	EPA 40 CFR 264.175, SPCC	Ultratech	2851	**53CN43**
650 gal	—	102 in x 72 in x 24 in	Black	No	Outdoor	No Pocket		Ultratech	2852	**53CN44**
650 gal	—		Black	Yes	Outdoor	No Pocket		Ultratech	2853	**53CN45**
1,150 gal	—	162 in x 78 in x 24 in	Black	No	Outdoor	No Pocket		Ultratech	2854	**53CN46**
1,150 gal	—		Black	Yes	Outdoor	No Pocket		Ultratech	2855	**53CN47**
Outdoor Spill Containment Sumps										
For Number of 55 gal. Drums: 2										
110 gal	4,000 lb	34 in x 60 in x 46 in	Yellow	No	Indoor, Outdoor	Yes	EPA, SPCC	Eagle	1626	**3KN25**
130 gal	1,200 lb	60 ½ in x 35 in x 46 ½ in	Yellow	No	Indoor, Outdoor	Yes	EPA 40 CFR 264.175, NPDES, SPCC, UFC	ENPAC	2038-YE	**31DM80**
130 gal	1,200 lb	60 ½ in x 37 ¼ in x 45 ¾ in	Yellow	Yes	Indoor, Outdoor	Yes		ENPAC	2038-YE-D	**31DM81**
220 gal	4,000 lb	34 in x 60 in x 64 in	Yellow	No	Indoor, Outdoor	Yes	EPA, SPCC	Eagle	1628	**3KN26**
264 gal	1,200 lb	60 ½ in x 35 in x 63 ¼ in	Yellow	No	Indoor, Outdoor	Yes	EPA 40 CFR 264.175, NPDES, SPCC, UFC	ENPAC	2077-YE	**31DM82**
264 gal	1,200 lb	60 ¼ in x 34 in x 64 in	Yellow	Yes	Indoor, Outdoor	Yes		ENPAC	2077-YE-D	**31DM83**
Pallet Rack Sumps										
For Number of 55 gal. Drums: 4										
66 gal	50 lb	51 ½ in x 51 ½ in x 12 in	Yellow	No	Outdoor	2-Way	EPA 40 CFR 264.175, SPCC	Ultratech	2395	**4WLT7**
66 gal	Determined by Pallet Racking		Yellow	Yes	Outdoor	2-Way		Ultratech	2396	**8MVN6**

Load Cap.	H	W	Color	For Use With Mfr. Model No.	Brand	Mfr. Model	Item No.
Dolly							
1,500 lb	6 in	34 in	Black	1626, 1628	Eagle	1629	**3KN27**

Spill Sump 3BE85

Horizontal Tank Spill Sump 45YZ98

Flexible Wall Horizontal Tank Spill Sump 53CN42

Outdoor Spill Sump 3KN25

Pallet Rack Sump 8MVN6

Spill Tray
3FTZ5

Spill Tray With Grate
53CN51

Line Pipe Tray
53CP71

Pallet Rack Spill Tray
3NJH9

Plastic Spill Containment Trays

- 3TAX1, 2RNY5, 31DL51, 31DL52, 31DL83, 53CN49, 53CN51, and 3KXD1 support EPA Compliance 40 CFR 264.175
- ENPAC and Ultratech models support SPCC Compliance

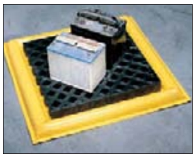
Trays catch leaks and spills from drums and containers. **Spill Trays** can also be used underneath machinery to catch leaks. **Spill Trays With Black Grating** help keep cans, pails, and other containers out of smaller spills. **Pallet Rack Spill Trays** are placed under pallet racks to catch and contain spills or leaks. These trays help keep floors clean and minimize slips and falls. The **Line Pipe Spill Tray for Hose Connections** acts as a drip tray as well as a support for hose or pipe connections. Use the **Tray Connector** to join these trays together.

Note: Product does not include pictured container.

Usable Dimensions	Spill Cap.	Color	Includes	Indoor/ Outdoor Use	Brand	Mfr. Model	Item No.
Spill Trays							
2 in Height							
36 in L x 18 in W	5 gal	Black	—	Indoor	Eagle	1677BLK	**3TAX1**
36 in L x 18 in W	5 gal	Yellow	—	Indoor	Eagle	1677	**2RNY5**
3 ½ in Height							
48 in L x 40 in W	30 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1036	**3FUA1**
4 ¾ in Height							
48 in L x 12 in W	12 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1031	**3FTZ5**
48 in L x 24 in W	24 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1032	**3FTZ6**
5 in Height							
36 in L x 24 in W	18 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1034	**3FTZ8**
36 in L x 36 in W	27 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1035	**3FTZ9**
31 ⅛ in L x 40 5⁄16 in W	21.5 gal	Black	—	Indoor, Outdoor	ENPAC	5002-BK	**31DL51**
42 ⅛ in L x 46 13⁄64 in W	36 gal	Black	—	Indoor, Outdoor	ENPAC	5004-BK	**31DL52**
48 in L x 30 in W	30 gal	Black	Tray Only	Indoor, Outdoor	Ultratech	1033	**3FTZ7**
6 in Height							
31 in L x 31 in W	10 gal	Yellow	—	Indoor, Outdoor	Eagle	1614	**4RF60**
Spill Trays With Black Grating							
3 ¼ in Height							
20 ¾ in L x 17 ¼ in W	2.5 gal	Yellow	—	Indoor	ENPAC	5248-YE	**31DL83**
3 ½ in Height							
54 in L x 29 ¾ in W	14 gal	Black	Grating	Indoor, Outdoor	Ultratech	2350	**53CN49**
54 in L x 29 ¾ in W	14 gal	Yellow	Grating	Indoor, Outdoor	Ultratech	2352	**53CN51**
4 in Height							
13 ½ in L x 8 ½ in W	1.8 gal	White	Pour Spout	Indoor	Ultratech	1060	**3FTZ3**
17 ½ in L x 13 ½ in W	2.9 gal	White	Pour Spout	Indoor	Ultratech	1061	**3FTZ4**
6 in Height							
31 in L x 31 in W	5 gal	Yellow	Grating	Indoor	Eagle	1615	**3KXD1**
Pallet Rack Spill Trays							
2 ¾ in Height							
44 in L x 23 ½ in W	8 gal	Black	Tray	Indoor	Ultratech	2370	**3NJH9**
48 in L x 44 in W	16 gal	Black	(2) Trays, (1) Connector	Indoor	Ultratech	2371	**3NJJ1**
72 in L x 44 in W	24 gal	Black	(3) Trays, (2) Connector	Indoor	Ultratech	2372	**3NJJ2**
Line Pipe Spill Tray for Hose Connections							
9 ¼ in Height							
29 in L x 24 in W	4 gal	Yellow	—	Outdoor	Ultratech	5300	**53CP71**
Spill Tray with Universal Sorbents							
3 in Height							
10½ in L x 10½ in W	1 gal	Yellow	Drip Pan, Pillow	Indoor	Eagle	1670PK12	**5U734**

For Use With Grainger Item Number	For Use With Mfr. Model Number	Dim.	Color	Brand	Mfr. Model	Item No.
Tray Connector						
3NJH9, 3NJJ1, 3NJJ2	2370, 2371, 2372	44 in x 6 in x 8 in	Black	Ultratech	2373	**3NJJ3**

Foldable Sidewall
10D418



Compressable Foam Sidewall With Grating
3NJL4

Collapsible Plastic Spill Containment Trays

- ENPAC and Eagle models support EPA Compliance 40 CFR 264.175
- Support SPCC Compliance
- Support NPDES Compliance, except 45UX06-45UX09

Used to catch leaks and spills under vehicles and equipment. They are compact and can be folded or rolled up for storage.

Foldable Sidewall Spill Trays have sidewalls that fold when driven over or stepped on and spring back into place. Ultratech models include a utility tie.

Compressable Foam Sidewall Spill Trays have foam sidewalls that provide support yet can be driven over or stepped on. Used as a storage pad for cans and other liquid containers.

Black Replacement Grates are used when existing spill-pallet grates are damaged or are no longer usable.

Note: Product does not include pictured batteries.

Dim.	Spill Cap.	Color	For Number of 55 gal. Drums	Indoor/ Outdoor Use	Brand	Mfr. Model	Item No.
Foldable Sidewall Spill Trays							
3 in Height							
24 in L x 24 in W	8 gal	Yellow	1	Indoor	ENPAC	5750-YE	**4TAL2**
24 in L x 48 in W	15 gal	Yellow	2	Indoor	ENPAC	5755-YE	**4TAL3**
48 in L x 48 in W	30 gal	Yellow	4	Indoor	ENPAC	5760-YE	**4TAL4**
4 ¾ in Height							
12 in L x 12 in W	1.5 gal	Yellow	—	Indoor, Outdoor	Ultratech	1335	**10D418**
18 in L x 18 in W	5 gal	Yellow	—	Indoor, Outdoor	Ultratech	1330	**10D419**
24 in L x 24 in W	6.5 gal	Yellow	—	Indoor, Outdoor	Ultratech	1331	**10D420**
30 in L x 30 in W	9 gal	Yellow	—	Indoor, Outdoor	Ultratech	1332	**10D421**
42 in L x 42 in W	17 gal	Yellow	—	Indoor, Outdoor	Ultratech	1333	**10D422**
48 in L x 48 in W	20 gal	Yellow	—	Indoor, Outdoor	Ultratech	1334	**10D423**
Foldable Sidewall Spill Trays With Removable Grating							
3 in Height							
24 in L x 24 in W	6 gal	Yellow/Black	1	Indoor	ENPAC	5750-YE-G	**4HRD7**
24 in L x 48 in W	12 gal	Yellow/Black	2	Indoor	ENPAC	5755-YE-G	**4HRD8**
24 in L x 96 in W	24 gal	Yellow/Black	4	Indoor	ENPAC	5765-YE-G	**4HRD9**
48 in L x 48 in W	24 gal	Yellow/Black	4	Indoor	ENPAC	5760-YE-G	**3PUT7**
48 in L x 72 in W	36 gal	Yellow/Black	6	Indoor	ENPAC	5770-YE-G	**4HRE1**
48 in L x 96 in W	48 gal	Yellow/Black	8	Indoor	ENPAC	5775-YE-G	**4HRE2**
Compressable Foam Sidewall Spill Trays							
4 in Height							
24 in L x 24 in W	10 gal	Yellow	—	Indoor, Outdoor	Eagle	T8001	**45UX05**
24 in L x 36 in W	15 gal	Yellow	—	Indoor, Outdoor	Eagle	T8002	**45UX06**
24 in L x 48 in W	20 gal	Yellow	—	Indoor, Outdoor	Eagle	T8003	**45UX07**
36 in L x 36 in W	22 gal	Yellow	—	Indoor, Outdoor	Eagle	T8004	**45UX08**
48 in L x 48 in W	40 gal	Yellow	—	Indoor, Outdoor	Eagle	T8005	**45UX09**
Compressable Foam Sidewall Spill Trays With Removable Grating							
2 in Height							
24 in L x 24 in W	2 gal	Yellow/Black	1	Indoor	ENPAC	5600-YE	**3NJL4**
24 in L x 48 in W	7.5 gal	Yellow/Black	2	Indoor	ENPAC	5610-YE	**3NJL5**
48 in L x 48 in W	12 gal	Yellow/Black	4	Indoor	ENPAC	5620-YE	**3LCD8**

For Use With Pallet Type	For Use With Mfr. Model Number	Dim.	Brand	Mfr. Model	Item No.
Black Replacement Grates					
(1) Drum Pallet	5750-YE ENPAC Spill Pallet	24 in x 23 in x 1 ¾ in	ENPAC	7007-BK	**4TAL8**
(2) Drum Pallet	5755-YE ENPAC Spill Pallet	48 in x 23 in x 1 ¾ in	ENPAC	7006-BK	**4TAL7**
(2) Drum Pallet	Eagle Cabinets	50 ½ in x 25 ¼ in x 1 ½ in	Eagle	1642IB	**15Y990**

Round Pool
45YY06

Square Pool with Bladder
32V025

Spill Containment Pop-Up Pools

- Support EPA Compliance 40 CFR 264.175, except 32V025
- Support SPCC Compliance
- Support NPDES Compliance
- Yellow color

Round Pop-Up Pools are collapsible pools that "pop-up" and expand to a usable size. They are constructed of flexible plastic, and commonly used to contain leaks from vehicles, machinery, and pipes.

Square Pop-Up Pools with Bladder have a built-in bladder that unrolls as liquid fills the pool to increase liquid capacity.

Spill Cap.	Dim.	Material	Indoor/Outdoor Use	Brand	Mfr. Model	Item No.
Round Pop-Up Pools						
20 gal	28 in Bottom Dia. x 13 in H	Maiweave	Indoor, Outdoor	Condor	5920-BD-C	**45YY06**
65 gal	48 in Bottom Dia. X 14 in H	Maiweave	Indoor, Outdoor	Condor	5966-BD-C	**45YY07**
Square Pop-Up Pools with Bladder						
20 gal	58 in L x 18 in W x 5 in H	Polyethylene	Outdoor	Ultratech	8010	**32V025**
66 gal	60 in L x 58 in W x 5 in H	Polyethylene	Outdoor	Ultratech	8012	**32V026**
150 gal	144 in L x 58 in W x 5 in H	Polyethylene	Outdoor	Ultratech	8016	**32V027**

Spill Containment Curtain Booms

These temporary floating booms create a barrier that prevents the spread of oil throughout waterways.

Yellow
8AGF7

Orange
443P59

Boom Height	Freeboard Height	Draft Depth	Break Strength	Boom Length	Color	Brand	Mfr. Model	Item No.
10 in	4 in	6 in	1,800 lb	25 ft	Yellow	—	SUPER SWAMP 25'	**9W929**
10 in	4 in	6 in	1,800 lb	50 ft	Yellow	—	SUPER SWAMP 50'	**9JYM0**
10 in	4 in	6 in	1,800 lb	100 ft	Yellow	—	SUPER SWAMP 100'	**8AGF7**
18 in	6 in	12 in	15,000 lb	2 ft	Orange	Spilltech	C-BOOM18-25	**443P60**
18 in	6 in	12 in	15,000 lb	8 ½ ft	Orange	Spilltech	C-BOOM18-100	**443P59**

Spill Containment Carts & Dollies

Platform Truck
5PW02

Drum Dolly
3PA33

Cross-Brace Dolly
3KN35

Description	Load Capacity	Brand	Mfr. Model	Item No.
Platform Trucks				
2-Drum Spill Platform Cart—Platform Size 28 in W x 56 in L x 12 in H	2,000 lb	Eagle	1637	**5PW02**
2-Drum Spill Platform Cart—Platform Size 29 in W x 48 in L x 13 ⅛ in H	500 lb	ENPAC	5200-YE	**31DM54**
Drum Dollies				
Mobile Drum Spill Dolly With (2) Lockable Casters and Vertical Locking Port Handle—For Use With 30, 55, or 95 gal. Drums	1,250 lb	Eagle	1613	**3PA33**
Mobile Drum Spill Container—For Use With 55 gal. Drums	500 lb	ENPAC	5205-YE	**31DM52**
Cross-Brace Drum Dollies with Support Ring				
Cross-Brace Drum Dolly with Support Ring—Steel Frame, (4) Swivel Rubber Casters—For Up To 95 gal Containers	1,000 lb	Eagle	1698	**3KN35**
Cross-Brace Drum Dolly with Support Ring for 4RF60—For 5 to 55 gal Containers	1,000 lb	Eagle	1618	**4RF61**
Polyethylene Drum Cover				
Rigid, Dome-Shaped Snap-On Drum Cover—For 55 gal Open Head Drums	—	—	1667	**5PW09**
Replacement Part for Carts & Dollies				
Handle/Drum Bogie—For Use With 3PA33	—	Eagle	1613HDL	**24JU87**

Lab Packs, Overpack and Salvage Drums

Lab Pack
2RNY7

Salvage Drum
4RF59

Wheeled Overpack/
Salvage Drum
4TAJ4

Open head, unlined HDPE (high-density polyethylene) drums provide secure secondary containment of leaking liquids and hazardous materials. Suitable for indoor or outdoor use. Full drums can easily be moved with forklift.

LAB PACKS/OVERPACK DRUMS

Lab packs are lightweight and nestable. Lab packs, except 3TZW5, meet DOT 49 CFR 173.12. Overpacks meet DOT 49 CFR 173.25. 2RNY7 and 2RNY8 also meet FDA 21 CFR 177.150

14 and 20 Gal. Lab Packs—Store 5 gal. pails or smaller containers. Twenty gallon containers have handles.

30 Gal. Lab Packs—Stackable. 3TZW5 is suitable for use with hazardous materials in packing groups I, II, and III.

Overpack Drums—Feature screw-top lids and include handles for forklift use.

SALVAGE DRUMS

Drums are nestable for easy storage. Removable poly head and metal band. 4RF63 features handles. Drums meet 3 psi pressure test and DOT 49 CFR 173.3 standards.

LOCKING OVERPACK/SALVAGE DRUM

Features an easy twist-down closing with secure 4-pt. system that "locks" stacked salvage drums. Supports EPA, SPCC, and NPDES standards.

WHEELED OVERPACK/SALVAGE DRUMS

Have built-in handles and 6" polyolefin wheels to enhance mobility and versatility. Meet UN Group 1 standards and DOT 49 CFR 173.3(c). Meet EPA, SPCC, and NPDES regulations.

Locking Overpack/
Salvage Drum
5LPZ0 (Shown
with 5LPZ1, Sold
Separately below)

Drum Lid Closure	Drum Volume Cap.	O.D.	I.D.	Overall H	For Use With	Drum Color	UN Rating Solid	Std.	Brand	Mfr. Model	Item No.
Lab Packs											
Lever Lock Ring	14 gal	15 in	13.5 in	26 ½ in	5 gal or Smaller Pails	Yellow	1H2/Y100/S	DOT 49 CFR 173.12 (b)	Eagle	1610	**3UAZ7**
Lever Lock Ring	14 gal	15 in	13.5 in	26 ½ in	Smaller Non-Damaged Bottles, Cans, Carboys and 5 gal Pails of Non-Leaking Hazardous Materials	Blue	1H2/X65/S, 1H2/Y100/S	DOT 49 CFR 173.12, FDA 21 CFR 177.1520, UN HM-181	Eagle	1610MB	**2RNY7**
Screw On Lid	20 gal	20 ⅜ in	19.375 in	20 ¾ in	Packing Groups I, II and III of Hazardous Materials	Yellow	1H2/X57/S	DOT 49 CFR 173.12	Eagle	1650	**5PW04**
Lever Lock Ring	20 gal	20 ⅞ in	19 in	20 7⁄16 in	5 gal or Smaller Pails	Yellow	1H2/X40/S	DOT 49 CFR 173.12 (b)	Eagle	1652	**3TZW6**
Lever Lock Ring	30 gal	21 ⅛ in	19 in	28 ½ in		Yellow	1H2/X100/S, 1H2/Y100/S	—	Eagle	1601	**3TZW5**
Lever Lock Ring	30 gal	21 ⅛ in	19 in	28 ½ in	Smaller Non-Damaged Bottles, Cans, Carboys and 5 gal Pails of Non-Leaking Hazardous Materials	Blue	1H2/X120/S, 1H2/Y180/S	DOT 49 CFR 173.12, FDA 21 CFR 177.1520, UN HM-181	Eagle	1601MB	**2RNY8**
Screw On Lid	30 gal	22 ½ in	19.875 in	28 ¼ in		Yellow	1H2/X120/S, 1H2/Y180/S	Meet DOT 49 CFR 173.12, 1992	Eagle	1600SL	**3BE86**
Overpack Drums											
Screw On Lid	55 gal	26 ½ in	23.875 in	40 in	Smaller Non-Damaged Bottles, Cans, Carboys and 5 gal Pails of Non-Leaking Hazardous Materials	Yellow	1H2/Y250/S	—	Eagle	1657	**20GY34**
Screw On Lid	65 gal	31 in	27.125 in	33 ¾ in	Packing Groups I, II and III of Hazardous Materials	Yellow	1H2/X300/S	DOT 49 CFR 173.25	Eagle	1661	**6YG06**
Screw On Lid	95 gal	31 in	27.125 in	41 ¼ in		Yellow	1H2/X300/S		Eagle	1690	**5PW10**
Salvage Drums											
Lever Lock Ring	20 gal	20 ⅞ in	19 in	20 7⁄16 in	Packing Groups I, II and III of Hazardous Materials	Yellow	1H2/X75/S	3 PSI Pressure Test, DOT 49 CFR173.3	Eagle	1654	**4RF63**
Lever Lock Ring	30 gal	21 ⅛ in	19 in	28 ½ in		Yellow	1H2/X120/S, 1H2/Y180/S		Eagle	1602	**4RF59**
Bolt Ring	65 gal	31 in	27.125 in	38 ⅞ in		Yellow	1H2/X200/S		Eagle	1665	**3KN31**
Bolt Ring	95 gal	31 in	27.5 in	44 ⅜ in		Yellow	1H2/X340/S		Eagle	1695	**3KN34**
Overpack/Salvage Drums											
Screw On Lid	20 gal	22 ¼ in	21.5 in	19 in	5 gal Pails, Bottles, Cans	Yellow	1H2/X75/S, 1H2/Y100/S	DOT 49 CFR 173.3 (c), EPA, SPCC and NPDES	ENPAC	1220-YE	**3TZX6**
Screw On Lid	30 gal	22 ¼ in	21.5 in	30 in	16 gal Drum	Yellow	1H2/X100/S		ENPAC	1230-YE	**4TAJ1**
Screw On Lid	65 gal	27 ¾ in	23 in	37 in	30 gal Drum	Yellow	1H2/X200/S		ENPAC	1065-YE	**4TAH9**
Screw On Lid	95 gal	31 ⅛ in	25.75 in	40 in	55 gal Drum	Yellow	1H2/X227/S		ENPAC	1095-YE	**4TAJ2**
Locking Overpack/Salvage Drum											
Screw On Lid	95 gal	32 in	27 in	44 in	55 gal Drum	Yellow	1H2/X295/S	DOT 49 CFR 173.3 (c), EPA, SPCC and NPDES	ENPAC	1295-YE	**5LPZ0**
Wheeled Overpack/Salvage Drums											
Screw On Lid	50 gal	24 in	18.5 in	45 ⅜ in	30 gal Drum	Yellow	1H2/X125/S	DOT 49 CFR 173.3 (c), EPA, SPCC and NPDES	ENPAC	1259-YE	**4TAJ3**
Screw On Lid	95 gal	31 ⅛ in	25.75 in	47 ½ in	55 gal Drum	Yellow	1H2/X113/S		ENPAC	1299-YE	**4TAJ4**
Lock Down Security Kit											
Includes Hazardous Material Identification Tag, Screw, Security Wrench					5LPZ0	—	—	—	ENPAC	1295-LK	**5LPZ1**

Leak Diverters

Capture overhead leaks caused by water and snow. They divert and redirect leaking fluid to prevent damage to floors, merchandise, or equipment plus help reduce slip hazards.

Ceiling Leak Diverters are tarps to protect people and equipment from leaks. D-rings are used for simple installation.

Drop Ceiling Tile Leak Diverter Kits replace damaged tiles and are used to maintain a professional appearance. They channel liquids away from ceilings with a hose and protect people and equipment.

Umbrella Style Ceiling Leak Diverter Kits contain the necessary components to capture overhead leaks and drain liquids away with a hose. They hang from a single point near leaks and open up like an umbrella.

Pipe Leak Diverters are tarps to capture leaks or condensation from pipes and protect people and equipment. Have brass grommets that are used to hang them on leaking pipes. Liquids are channeled away to a collection container or a portable storage tank. They can also be used for various maintenance applications.

Above the Ceiling Leak Diverter Kit sits directly above a drop ceiling tile to catch leaks and channel them away and **Below the Ceiling** clips in place to your drop ceiling to control leaks and drips.

Ceiling 10C889

Ceiling Kit 30PX37

Ceiling Kit with Safety Message 30PY16

Drop Ceiling Tile Kit 30PX48

Pipe 42X297

Umbrella Style Ceiling Kit 30PY43

Above the Ceiling Kit 30PY15

Below the Ceiling Kit 30PX36

Ceiling & Pipe Combo Kit 30PY20

Dim.	Mounting Style	Material	Color	Components Included	Brand	Mfr. Model	Item No.
Ceiling Leak Diverters							
2 ½ ft x 2 ½ ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	Polyethylene	Black, Silver	(1) Leak Diverter	—	42X289	**42X289**
2 ½ ft x 2 ½ ft	Straps	Polyester, PVC	Translucent	(1) Leak Diverter	Pig	TLS552-TR	**30PX91**
2 ½ ft x 2 ½ ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	PVC Laminated Polyester	White	(1) Leak Diverter	—	42X285	**42X285**
2 ½ ft x 2 ½ ft		PVC Laminated Polyester	Yellow	(1) Leak Diverter	—	42X293	**42X293**
2 ½ ft x 2 ½ ft	Straps	Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS552-CL	**30PX89**
5 ft x 5 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	Polyethylene	Black, Silver	(1) Leak Diverter	—	10C882	**10C882**
5 ft x 5 ft	Straps	Polyester, PVC	Translucent	(1) Leak Diverter	Pig	TLS462-TR	**30PX55**
5 ft x 5 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	PVC Laminated Polyester	White	(1) Leak Diverter	—	10C876	**10C876**
5 ft x 5 ft		PVC Laminated Polyester	Yellow	(1) Leak Diverter	—	10C889	**10C889**
5 ft x 5 ft	Straps	Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS462-CL	**30PX53**
7 ft x 3 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	Polyethylene	Black, Silver	(1) Leak Diverter	—	42X290	**42X290**
7 ft x 3 ft		PVC Laminated Polyester	White	(1) Leak Diverter	—	42X286	**42X286**
7 ft x 3 ft	Straps	Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS673-CL	**30PY27**
7 ft x 7 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	Polyethylene	Black, Silver	(1) Leak Diverter	—	10C883	**10C883**
7 ft x 7 ft		PVC Laminated Polyester	White	(1) Leak Diverter	—	10C877	**10C877**
7 ft x 7 ft		PVC Laminated Polyester	Yellow	(1) Leak Diverter	—	10C890	**10C890**
10 ft x 5 ft		Polyethylene	Black, Silver	(1) Leak Diverter	—	42X291	**42X291**
10 ft x 5 ft	Straps	Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS553-CL	**30PX95**
10 ft x 10 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	Polyethylene	Black, Silver	(1) Leak Diverter	—	10C884	**10C884**
10 ft x 10 ft	Straps	Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS464-CL	**30PX65**
10 ft x 10 ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	PVC Laminated Polyester	White	(1) Leak Diverter	—	10C878	**10C878**
10 ft x 10 ft		PVC Laminated Polyester	Yellow	(1) Leak Diverter	—	10C891	**10C891**
12 ft x 12 ft		Polyethylene	Black, Silver	(1) Leak Diverter	—	10C885	**10C885**
12 ft x 12 ft	Straps	Polyester, PVC	Translucent	(1) Leak Diverter	Pig	TLS465-TR	**30PX73**
12 ft x 12 ft		Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS465-CL	**30PX71**
15 ft x 15 ft		Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS466-CL	**30PX77**
20 ft x 10 ft		Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS554-CL	**30PY02**
20 ft x 20 ft		Polyester, PVC	Translucent	(1) Leak Diverter	Pig	TLS467-TR	**30PX85**
20 ft x 20 ft		Polyester, PVC	Clear	(1) Leak Diverter	Pig	TLS467-CL	**30PX83**
Ceiling Leak Diverter Kit							
5 ft x 5 ft	Straps	Polyester, PVC	Translucent	(1 Hose), (4) Straps, (1) Leak Diverter	Pig	TLS121-TR	**30PX37**
Ceiling Leak Diverter Kits with Safety Message							
5 ft x 5 ft	Straps	Polyester, PVC	Yellow	(1) Leak Diverter	Pig	TLS555-YW-81	**30PY08**
5 ft x 5 ft		Polyester, PVC	Translucent	(1 Hose), (4) Straps, (1) Leak Diverter	Pig	TLS667-TR	**30PY16**
7 ft x 7 ft		Polyester, PVC	Translucent	(1 Hose), (4) Straps, (1) Leak Diverter	Pig	TLS668-TR	**30PY17**
Drop Ceiling Tile Leak Diverter Kits							
2 ft x 2 ft	Clips	Polystyrene	White	(1 Hose), (6) Clips, (1) Leak Diverter	Pig	TLS366	**30PX48**
4 ft x 2 ft		Polyethylene	White	(1 Hose), (6) Clips, (1) Leak Diverter	Pig	TLS367	**30PX49**
Umbrella Style Ceiling Leak Diverter Kits							
2 ½ ft x 2 ½ ft	Hook	Polyester, PVC	Translucent	(1 Hose), (1) Leak Diverter	Pig	TLS461-TR	**30PX51**
2 ½ ft x 2 ½ ft		Polyester, PVC	Clear	(1 Hose), (1) Leak Diverter	Pig	TLS461-CL	**30PX50**
2 ½ ft x 2 ½ ft		Polyester, PVC	Yellow	(1 Hose), (1) Leak Diverter	Pig	TLS461-YW	**30PX52**
48 ½ in x 48 ½ in		Polyester, PVC	Translucent	(1 Hose), (1) Leak Diverter	Pig	TLS903-TR	**30PY42**
48 ½ in x 48 ½ in		Polyester, PVC	Yellow	(1 Hose), (1) Leak Diverter	Pig	TLS903-YW	**30PY43**
Pipe Leak Diverters							
1 ½ ft x 1 ½ ft	Bungee Cords with Hooks, Drawstrings, Hooks, Straps	PVC Laminated Polyester	Yellow	(4) Straps, (8) Hooks, (1) Leak Diverter	—	42X297	**42X297**
11 ½ in dia	Straps	Polyester, PVC	Yellow	(1) Leak Diverter	Pig	TLS190	**30PX40**
32 in x 19 ½ in	Drawstrings	Polyester, PVC	Yellow	(1) Leak Diverter	Pig	TLS182	**30PX39**
Pipe Leak Diverter Kit							
12 in dia	Telescoping Pole	Polyester, PVC	Yellow	(1) Leak Diverter	Pig	TLS564-YW	**30PY13**
Above the Ceiling Leak Diverter Kit							
32 ¼ in x 22 ¼ in	Frame	Polyester, PVC	Clear	(1 Hose), (1) Leak Diverter	Pig	TLS620-CL	**30PY15**
Below the Ceiling Leak Diverter Kit							
50 in x 48 ½ in	Clips	Vinyl	White	(1 Hose), (12) Clips, (1) Leak Diverter	Pig	TLS102	**30PX36**
Ceiling & Pipe Leak Diverter Combo Kit							
5 ft x 5 ft	Straps	Polyester, PVC	Clear	(1 Hose), (4) Straps, (1) Leak Diverter	Pig	TLS671	**30PY20**

Product Type	L	Material	For Use With	Brand	Mfr. Model	Item No.	Pkg. Qty.
Leak Hangers							
Hanging Straps	14 in	EPDM Rubber, Steel	TLS	Pig	TLS470	**782KR2**	4
Hanging Straps	19 in	EPDM Rubber, Steel	TLS	Pig	TLS471	**381P70**	4
Hanging Straps	24 in	EPDM Rubber, Steel	TLS	Pig	TLS472	**782KR3**	4

3EWY6

Dewatering Bags

- Support EPA Compliance 40 CFR 122.26

Bags attach to the discharge hose on a dewatering pump to filter contaminants such as sediment and pollutants from water that is being drained from ditches, ponds, construction sites, and similar areas. Accommodate up to a 4 in discharge hose.

Size	Max. Flow Rate	Oil Cap.	Sediment Capacity	Mfr. Model	Item No.
4 ft L x 3 ft W	500 gpm	1.2 gal	12 cu ft; 720 lb	9729-OS	**3EWY6**
6 ft L x 6 ft W	500 gpm	3.7 gal	36 cu ft; 720 lb	9724-OS	**3EWY7**
15 ft L x 10 ft W	1,500 gpm	15.1 gal	150 cu ft; 720 lb	9725-OS	**3EWY8**
15 ft L x 15 ft W	1,500 gpm	22.6 gal	225 cu ft; 720 lb	9727-OS	**3EWY9**

Drain Plugs & Kits

- Polyurethane plug material
- Metal handles

Plugs fit snugly into drain openings to prevent spilled liquids from entering the drain. They can be used for short term or left in place as an alternative to permanently sealing the drain. Tapered sides make it easier to seat the plug and ensure a secure fit. **Drain Plug Kits** include (1) each of the 2 in, 3 in and 4 in dia conical drain plugs and (1) plastic case.

30PW21

3EWY1

Fits Drain Dia.	Handle Type	Color	Brand	Mfr. Model	Item No.
Drain Plugs					
2 in	Eye Bolt	Yellow	Pig	PLR208	**30PW21**
3 in	Eye Bolt	Yellow	Pig	PLR209	**30PW22**
3 ½ in	Eye Bolt	Yellow	Pig	PLR281	**30PW25**
4 in	Eye Bolt	Yellow	Pig	PLR210	**30PW23**
6 in	Eye Bolt	Yellow	Pig	PLR252	**30PW24**
2 in	Removable Eye Bolt	Orange	Ultratech	2113	**3EWX7**
3 in	Removable Eye Bolt	Orange	Ultratech	2114	**3EWX8**
4 in	Removable Eye Bolt	Orange	Ultratech	2115	**3EWX9**
6 in	Removable Eye Bolt	Orange	Ultratech	2117	**3EWY2**
8 in	Removable Eye Bolt	Orange	Ultratech	2118	**3EWY3**
10 in	Removable Eye Bolt	Orange	Ultratech	2119	**3EWY4**
12 in	Removable Eye Bolt	Orange	Ultratech	2121	**3EWY5**
Drain Plug Kits					
2 in, 3 in, 4 in	Eye Bolt	Yellow	Pig	PLR207	**30PW20**
2 in, 3 in, 4 in	Removable Eye Bolt	Orange	Ultratech	2116	**3EWY1**

Magnetic
15U890

Self-Sealing
30PW38

Self-Sealing Curb
30PW48

Drive-Over
30RF29

Drain Cover Seals & Storage Cases

Attach to storm drains to prevent spilled liquids, oils, and hazardous materials from entering the drain. Flexible material allows the seal to conform to irregularities in the drain. Covers are used in areas at risk of spills or in washdown applications. All seals can be washed and reused. Self-sealing models are UV-resistant.

Magnetic Drain Cover Seals have a magnetic backing that seals the cover to a storm drain grate.

Self-Sealing Drain Cover Seals have a bottom layer that seals the area around the grate to prevent liquids from entering the drain.

Drive-Over Self-Sealing Drain Cover Seals are made of heavy duty materials that withstand damage caused by vehicle traffic.

Wall-Mount Storage Cases for indicated Ultratech seals hold and keep them at hand to prevent damage during storage and transport.

For Max Drain Size	Material	Color	Thickness	Brand	Mfr. Model	Item No.
Magnetic Drain Cover Seals						
Circle						
12 in dia	Vinyl	Black, Yellow	1/16 in	Brady SPC	96229	**8CWM8**
Square						
12 in L x 12 in W	Vinyl	Yellow	1/2 in	Brady SPC	PVC18	**15U890**
18 in L x 18 in W	Vinyl	Yellow	1/2 in	Brady SPC	PVC24	**15U891**
30 in L x 30 in W	Vinyl	Yellow	1/2 in	Brady SPC	PVC36	**15U892**
36 in L x 36 in W	Vinyl	Yellow	1/2 in	Brady SPC	PVC42	**15U893**
Self-Sealing Drain Cover Seals						
Circle						
6 in dia	Polyurethane	Black, Yellow	5/16 in	Pig	PLR412	**30PW45**
6 in dia	Polyurethane	Yellow	3/8 in	Condor	48FZ15	**48FZ15**
14 in dia	Polyurethane	Yellow	3/8 in	Condor	48FZ16	**48FZ16**
24 in dia	Polyurethane	Black, Yellow	5/16 in	Pig	PLR430	**30PW47**
24 in dia	Polyurethane	Yellow	3/8 in	Condor	48FZ17	**48FZ17**
Square						
12 in L x 12 in W	Polyurethane	Yellow	1/4 in	Condor	48FZ07	**48FZ07**
12 in L x 12 in W	Polyurethane	Orange	3/8 in	Ultratech	2126	**3EWR5**
12 in L x 12 in W	Polyurethane	Yellow	3/8 in	Condor	48FZ11	**48FZ11**
18 in L x 18 in W	Polyurethane	Yellow	1/4 in	Condor	48FZ08	**48FZ08**
18 in L x 18 in W	Urethane, Vinyl	Black, Yellow	5/16 in	Pig	PLR401	**30PW36**
18 in L x 18 in W	Polyurethane	Orange	3/8 in	Ultratech	2127	**3EWR6**
18 in L x 18 in W	Polyurethane	Yellow	3/8 in	Condor	48FZ12	**48FZ12**
24 in L x 24 in W	Urethane, Vinyl	Black, Yellow	5/16 in	Pig	PLR402	**30PW37**
30 in L x 30 in W	Polyurethane	Yellow	1/4 in	Condor	48FZ09	**48FZ09**
30 in L x 30 in W	Urethane, Vinyl	Black, Yellow	5/16 in	Pig	PLR403	**30PW38**
30 in L x 30 in W	Polyurethane	Orange	3/8 in	Ultratech	2130	**3EWR7**
30 in L x 30 in W	Polyurethane	Yellow	3/8 in	Condor	48FZ13	**48FZ13**
36 in L x 36 in W	Polyurethane	Orange	3/8 in	Ultratech	2131	**3EWR8**
42 in L x 42 in W	Polyurethane	Orange	3/8 in	Ultratech	2132	**3EWR9**
48 in L x 48 in W	Urethane, Vinyl	Black, Yellow	5/16 in	Pig	PLR406	**30PW41**
48 in L x 48 in W	Polyurethane	Orange	3/8 in	Ultratech	2133	**3EWT1**
Self-Sealing Curb Drain Cover Seal						
Rectangle						
114 in L x 12 in W	Polypropylene, Polyurethane	Green	7/64 in	Pig	PLR510	**30PW48**
Drive-Over Self-Sealing Drain Cover Seals						
Square						
30 in L x 30 in W	Rubber, Urethane	Black, Blue	1/2 in	Pig	PLR303	**30RF29**
36 in L x 36 in W	Rubber, Urethane	Black, Blue	1/2 in	Pig	PLR304	**30RF30**
42 in L x 42 in W	Rubber, Urethane	Black, Blue	1/2 in	Pig	PLR305	**30PW26**
48 in L x 48 in W	Rubber, Urethane	Black, Blue	1/2 in	Pig	PLR306	**30PW27**

For Use With Mfr. Model No.	Dim.	Color	Brand	Mfr. Model	Item No.
Wall-Mount Storage Cases					
2126, 2127	7 in dia x 27 in L	Yellow	Ultratech	2140	**3EWU5**
2130	7 in dia x 39 in L	Yellow	Ultratech	2142	**3EWU6**
2131, 2132	7 in dia x 51 in L	Yellow	Ultratech	2143	**3EWU7**

Filter Socks

Socks prevent contaminated water and debris from reaching storm drains. They are placed in front of or around the drain to filter contaminants from water before it reaches the grate. Water flows through the filter while trapping silt and other contaminants.

32V029

494K85

Substances Filtered	Size	Filtration Capacity	Composition	Color	Brand	Mfr. Model	Item No.
Heavy Metals	7 in W x 4 in H x 9 ft L	Heavy Metals 1145 g	Heavy Metal Removal Filler with Polymer Outer Mesh	Green	Ultratech	9454	**32V029**
Oil, Other Hydrocarbons	7 in W x 4 in H x 9 ft L	Oil Capacity: 5.33 gal	Sorb 44 Filler with Polymer Outer Mesh	Green	Ultratech	9455	**32V030**
Oil; Heavy Metals; Sediment; Debris	5 in dia x 10 ft L	Oil Capacity: 4.5 gal	Compost Mulch Filler with Polyester Outer Mesh	Black	Pig	FLT718	**45GN99**
Oil; Heavy Metals; Sediment; Debris; Trash	12 ¾ in W x 3 in H x 10 ft L	Oil Capacity: 4.5 gal	Activated Carbon Filler with Polypropylene Outer Mesh, Recycled Fiber Mat, Zeolite	Blue	Pig	FLT823	**494K88**
Oil; Heavy Metals; Sediment; Debris; Trash	12 ¾ in W x 3 in H x 5 ft L	Oil Capacity: 2.25 gal	Activated Carbon Filler with Polypropylene Outer Mesh, Recycled Fiber Mat, Zeolite	Blue	Pig	FLT822	**494K87**
Oil; Sediments; Debris; Trash	12 ¾ in W x 3 in H x 10 ft L	Oil Capacity: 4.5 gal	Recycled Fiber Mat, Stone Aggregate Filler with Polypropylene Outer Mesh	Blue	Pig	FLT821	**494K86**
Oil; Sediments; Debris; Trash	12 ¾ in W x 3 in H x 5 ft L	Oil Capacity: 2.25 gal	Recycled Fiber Mat, Stone Aggregate Filler with Polypropylene Outer Mesh	Blue	Pig	FLT820	**494K85**
Phosphorous	7 in W x 4 in H x 9 ft L	Phosphorous: 26 lb	Phos Filter Filler with Polymer Outer Mesh	Green	Ultratech	9456	**32V031**
Sediment	7 in W x 4 in H x 9 ft L	—	Recycled Rubber Media Filler with Polymer Outer Mesh	Green	Ultratech	9457	**32V032**

Adjustable Frame Filter 3BU44

Frameless Filter 3EWN8

Set-In Place Filter 3NJF2

Magnetic Combination Filter 3EWP7

Street Drain Filters

Prevent silt and contaminated run-off from entering storm drains.

Adjustable-Frame Insert Street Drain Filters change size to fit the drain opening. The frame sits on the shelf under the grate and prevents the filter from falling into the drain when the grate is lifted.

Frameless Insert Street Drain Filters are held in place by the weight of the storm drain grate. A rod is threaded through the filter before lifting the grate to prevent the filter from falling into the drain when the grate is lifted.

Set-In-Place Curb Drain Filters are placed in front of streetside curb inlets.

Magnetic Street Drain Filters have integrated magnets that secure the filter to the top of the metal gate without requiring tools or removing the grate.

Magnetic Combination Drain Filters cover the curb inlet and a storm drain grate simultaneously.

ENPAC ULTRATECH INTERNATIONAL, INC.

Dim.	Substances Filtered	Filtration Capacity	Max. Flow Rate	Brand	Mfr. Model	Item No.
Adjustable-Frame Insert Street Drain Filters, Black Color						
24 in L x 36 in W x 21 in H	Debris; Sediment; Trash	Sediment Capacity: 125 lb	90 gpm	ENPAC	4341	**1EFJ3**
24 in L x 36 in W x 21 in H	Debris; Oil; Sediment; Trash	Oil Capacity: 0.23 gal; Sediment Capacity: 125 lb	90 gpm	ENPAC	4341-IB	**3BU44**
29 in dia x 21 in H			500 gpm	ENPAC	4340-IB	**4FPE8**
29 in dia x 21 in H	Debris; Sediment; Trash	Sediment Capacity: 125 lb	500 gpm	ENPAC	4340	**3NJD4**
Frameless Insert Street Drain Filters, Black Color						
48 in L x 36 in W x 18 in H	Heavy Metals	Oil Capacity: 0.23 gal; Heavy Metals: 190 g; Sediment Capacity: 30 lb	275 gpm	Ultratech	9397	**32V033**
48 in L x 36 in W x 18 in H	Debris; Trash	Oil Capacity: 7.4 gal; Sediment Capacity: 40 lb	500 gpm	Ultratech	9227	**3EWP1**
48 in L x 36 in W x 18 in H	Oil; Sediment	Oil Capacity: 0.87 gal	500 gpm	Ultratech	9217	**3EWN8**
48 in L x 36 in W x 18 in H		Oil Capacity: 1.38 gal; Sediment Capacity: 40 lb	500 gpm	Ultratech	9219	**3EWN9**
60 in L x 60 in W x 18 in H		Oil Capacity: 1.55 gal; Sediment Capacity: 40 lb	900 gpm	Ultratech	9356	**10D416**
60 in L x 60 in W x 18 in H		Oil Capacity: 2.06 gal; Sediment Capacity: 40 lb	900 gpm	Ultratech	9358	**10D417**
Set-In-Place Curb Drain Filters, Gray Color						
96 in L x 9 in W x 9 in H	Debris; Sediment	—	—	Ultratech	9320	**3NJF2**
120 in L x 9 in Wx 9 in H			—	Ultratech	9321	**3NJF3**
144 in L x 9 in W x 9 in H			—	Ultratech	9322	**3NJF4**
Magnetic Street Drain Filters, Gray Color						
24 in L x 24 in W x 2 in H	Oil; Sediment	—	92 gpm	Ultratech	9160	**3EWP3**
24 in L x 48 in W x 2 in H			92 gpm	Ultratech	9162	**3EWP5**
36 in L x 24 in W x 2 in H			192 gpm	Ultratech	9161	**3EWP4**
Magnetic Combination Drain Filters, Gray Color						
24 in L x 24 in W x 8 in H	Oil; Sediment	—	92 gpm	Ultratech	9163	**3EWP6**
24 in L x 36 in W x 8 in H			92 gpm	Ultratech	9164	**3EWP7**
24 in L x 48 in W x 8 in H			92 gpm	Ultratech	9165	**3EWP8**

Material	Overall Length	Overall Width	Color	Brand	Mfr. Model	Item No.
Grate Hook—For Use With All Grates						
Steel	26 in	5 in	Black	Ultratech	9235	**3EWP2**

45EU47

49UV20

QUICK DAM THE NEXT GENERATION IN FLOOD PROTECTION — SUPPLIER DIVERSITY

Water-Activated Flood Bags and Barriers

Bags and barriers absorb, contain and divert problem flood water. They contain an absorbent powder that swells and turns to gel when it gets wet, grow to full size and weight in minutes. Easier to deploy than sandbags and can be stacked as needed to create walls. Built-in wedge on barriers prevent rolling. Safe, nontoxic, nonhazardous and can be disposed of in the trash. For fresh water only.

L	W	H	Weight Cap.	Item No.	Pkg. Qty.
Water Activated Flood Bags					
2 ft	1 ft	3 ½ in	30.9 lb	**45EU47**	6
2 ft	1 ft	3 ½ in	12 lb	**49UV24**	20
Water Activated Flood Barriers					
5 ft	8 in	3 ½ in	1.375 lb	**49UV19**	2
5 ft	20 in	3 ½ in	21 lb	**49UV21**	26
10 ft	6 ½ in	3 ½ in	64 lb	**45EU48**	1
10 ft	6 ½ in	3 ½ in	20 lb	**49UV22**	12
17 ft	9 in	3 ½ in	2.375 lb	**49UV20**	1
17 ft	20 in	3 ½ in	23 lb	**49UV23**	8

786F09

6FGX9

5EET2

Sandbags and Filling Tool

ULTRATECH INTERNATIONAL, INC. AQUASAFE FloodSax GOBAGGER

Sandbags hold back rising floodwaters, build military bunkers, barricade traffic areas, and weigh down objects and equipment so they stay in place. For fresh or salt water.

Standard sandbags must be filled with sand before use. Hemmed polypropylene construction for durability and easy filling. Attached tie cords help to secure bags when filled. Mildew-resistant. 500-hr. UV rating for white bags; 1200-hr. UV rating for orange bags.

Sandless sandbags are water-activated and contain absorbent material that soaks up water so they do not need to be filled before use.

Sandbag filling tool fills bags faster than conventional shovel method.

Color	Material	L	W	Weight Cap.	Brand	Item No.	Pkg. Qty.
Standard Sandbags							
White	Polypropylene	26 in	14 in	40 lb	—	**6FGY1**	100
Orange		26 in	14 in	40 lb	—	**6FGX9**	100
White		27 in	18 in	50 lb	—	**6FGY2**	100
Orange		27 in	18 in	50 lb	—	**6FGY0**	100
Sandless Sandbags							
Blue	Polymers, Polypropylene	22 in	17 in	40 lb	Ultratech	**55ED52**	15
White	Nylon Edge Stitch, Polypropylene	22 in	16 in	50 lb	Aquasafe	**60WC89**	5
White		22 in	16 in	50 lb	Aquasafe	**60WC90**	10
White		22 in	16 in	50 lb	Aquasafe	**60WC91**	20
White	Polypropylene	20 in	19 in	50 lb	FloodSax	**786F09**	20
Sandbag Filling Tool							
Yellow	Plastic	26 in	9½ in	—	GoBagger	**5EET2**	1

Indoor Carpet Entrance Mats

Mats provide a stretch of walkway for removing moisture, dirt, and grime from footwear, to reduce slip hazards and protect floors. **Rubber-backed mats** have double borders to keep moisture away from floors, and gripper backing to minimize movement. **Vinyl-backed mats** are slip-resistant.

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Item No.
Medium- to Heavy-Traffic, Rubber-Backed					
Diamond					
Blue	Loop Pile	2 ft	3 ft	⅜ in	8LXJ1
Brown		2 ft	3 ft	⅜ in	8YF48
	Needle Punch	2 ft	3 ft	⅜ in	6NTF1
Charcoal	Loop Pile	2 ft	3 ft	⅜ in	8DZK9
	Needle Punch	2 ft	3 ft	⅜ in	6NTG7
Blue	Loop Pile	3 ft	4 ft	⅜ in	6NTK8
Brown		3 ft	4 ft	⅜ in	9UET5
Charcoal		3 ft	4 ft	⅜ in	8LP30
	Needle Punch	3 ft	4 ft	⅜ in	26G847
Blue	Loop Pile	3 ft	5 ft	⅜ in	8DZA8
	Needle Punch	3 ft	5 ft	⅜ in	8DZ79
Brown	Loop Pile	3 ft	5 ft	⅜ in	8PR94
Charcoal		3 ft	5 ft	⅜ in	9JY24
	Needle Punch	3 ft	5 ft	⅜ in	38ZA81
Green	Loop Pile	3 ft	5 ft	⅜ in	8DVG2
Charcoal		3 ft	10 ft	⅜ in	9JFR7
	Needle Punch	3 ft	10 ft	⅜ in	9ENG1
Blue	Loop Pile	4 ft	6 ft	⅜ in	9K243
Brown		4 ft	6 ft	⅜ in	6NTF4
	Needle Punch	4 ft	6 ft	⅜ in	9FPP4
Charcoal	Loop Pile	4 ft	6 ft	⅜ in	8DU18
	Needle Punch	4 ft	6 ft	⅜ in	38ZA82
		4 ft	8 ft	⅜ in	26G849
	Loop Pile	4 ft	10 ft	⅜ in	8DWT9
	Needle Punch	6 ft	8 ft	⅜ in	26G850
		6 ft	12 ft	⅜ in	26G851
Waffle					
Black, Blue, Brown, Burgundy, Green	Needle Punch	2 ft	3 ft	⅜ in	J1715
		3 ft	4 ft	⅜ in	J1717
		3 ft	5 ft	⅜ in	J1719
Black		3 ft	10 ft	⅜ in	36VJ99
Blue, Brown, Burgundy, Charcoal, Green		4 ft	6 ft	⅜ in	J1720
Medium Blue	Loop Pile	4 ft	8 ft	⅜ in	8CZR5
Charcoal	Needle Punch	4 ft	10 ft	⅜ in	36VK03
Medium- to Heavy-Traffic, Vinyl-Backed					
Diamond					
Charcoal	Loop Pile	2 ft	3 ft	¼ in	24N130
		3 ft	4 ft	¼ in	24N131
		3 ft	5 ft	¼ in	24N132
		3 ft	8 ft	¼ in	24N133
		3 ft	10 ft	¼ in	24N135
		3 ft	12 ft	¼ in	24N171
		3 ft	20 ft	¼ in	24N137
		4 ft	6 ft	¼ in	24N138
		4 ft	8 ft	¼ in	24N139
		4 ft	10 ft	¼ in	24N140
		4 ft	12 ft	¼ in	24N141
		4 ft	16 ft	¼ in	24N142
		4 ft	20 ft	¼ in	24N143
		6 ft	8 ft	¼ in	24N144
		6 ft	12 ft	¼ in	24N145
		6 ft	16 ft	¼ in	24N146
		6 ft	20 ft	¼ in	24N147
High-Low Looped Pile					
Burgundy	Loop Pile	3 ft	4 ft	⅜ in	24N185

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Item No.
Light- to Medium-Traffic, Rubber-Backed					
Parquet					
Blue, Charcoal	Needle Punch	2 ft	3 ft	⅜ in	J1714
Brown		2 ft	3 ft	⅜ in	34L258
Blue, Charcoal		3 ft	5 ft	⅜ in	J1716
Brown		3 ft	5 ft	⅜ in	34L259
Blue, Charcoal		4 ft	6 ft	⅜ in	J1718
Brown		4 ft	6 ft	⅜ in	34L260
Waffle					
Black, Brown	Needle Punch	2 ft	3 ft	⅜ in	E5379
Black, Blue, Brown		3 ft	5 ft	⅜ in	E5380
Black		4 ft	6 ft	⅜ in	8WC83
Blue, Brown		4 ft	6 ft	⅜ in	E5381
Light- to Medium-Traffic, Vinyl-Backed					
Cut Pile					
Black, Brown	Cut Pile	2 ft	3 ft	⅜ in	H6180
Blue		2 ft	3 ft	⅜ in	8D471
Gray		2 ft	3 ft	⅜ in	49Y276
Black, Brown		3 ft	4 ft	⅜ in	H6181
Blue		3 ft	4 ft	⅜ in	9T055
Navy		3 ft	4 ft	⅜ in	24N267
Black		3 ft	5 ft	⅜ in	49Y284
Blue, Red		3 ft	5 ft	⅜ in	F1257
Brown, Charcoal, Navy, Red/Black		3 ft	5 ft	⅜ in	G5801
Navy		3 ft	6 ft	⅜ in	24N269
Gray		3 ft	8 ft	⅜ in	24N279
Black		3 ft	10 ft	⅜ in	49Y285
Blue, Charcoal		3 ft	10 ft	⅜ in	F1258
Brown, Red/Black		3 ft	10 ft	⅜ in	G5804
Red		3 ft	10 ft	⅜ in	9RZZ9
Gray		4 ft	3 ft	⅜ in	8X510
Black, Brown		4 ft	6 ft	⅜ in	H6183
Burgundy		4 ft	6 ft	⅜ in	8DH32
Navy		4 ft	6 ft	⅜ in	24N272
Red		4 ft	6 ft	⅜ in	8VYK6
Black, Brown		4 ft	8 ft	⅜ in	H6185
Charcoal, Navy		4 ft	8 ft	⅜ in	G5806
Ribbed					
Black, Blue, Brown	Needle Punch	2 ft	3 ft	⅜ in	F1284
Brown		3 ft	4 ft	⅜ in	9MN29
Brown, Pepper		3 ft	5 ft	⅜ in	F1280
Blue, Pepper		3 ft	6 ft	⅜ in	F1281
		3 ft	10 ft	⅜ in	H3535
Brown		3 ft	10 ft	⅜ in	6PWF4
Blue, Brown, Green, Pepper, Red/Black		4 ft	6 ft	⅜ in	F1282
Blue, Brown, Charcoal, Green, Red/Black		4 ft	8 ft	⅜ in	F1283
Charcoal		6 ft	60 ft	5/16 in	30CL93
Tufted					
Gray	Loop Pile	3 ft	5 ft	⅝ in	4LLH5
		4 ft	6 ft	⅝ in	4LLH6

Diamond Brown 8PR94

Waffle Green J1715

High-Low Looped Pile Burgundy 24N185

Parquet Blue J1714

Waffle Black E5380

Cut Pile Red/Black G5801

Ribbed Pepper F1282

Tufted Gray 4LLH5

Indoor/Outdoor Entrance Mat

This brush mat has a stiff, coconut husk-based pile that is good for scraping debris from the bottom of shoes. Has a vinyl backing. Tan color.

W	L	Thickness	Item No.
18-3/4 in	30 in	⅝ in	5MM75

8XCJ0

Outdoor Brush Mats

Made from coarse synthetic fibers and backed with heavy-duty vinyl. Suitable for medium-to-heavy traffic, can be used both indoors and outside. Provide super scraping action, keeping dirt and mud from entering facilities. Charcoal color.

W	L	Thickness	Item No.
3 ft	12 ft	⅜ in	8XCJ0
3 ft	20 ft	⅜ in	8XCJ1
4 ft	12 ft	⅜ in	8XDJ6

39R807

6LUL9

Outdoor Rubber Entrance Mats

- Beveled edges

Scraping surface designs help reduce moisture and dirt tracked indoors. Heavy-duty construction for long life outdoors. **Raised bar mats** have molded scraping ribs for great shoe-scraping performance. Antislip **fingertip mats** provide outstanding cleaning action with flexible rubber fingers.

W	L	Thickness	Item No.
Raised Bar Surface			
3 ft	5 ft	¼ in	6LUP2
44 in	67 in	¼ in	39R807

W	L	Thickness	Item No.
Fingertip Surface			
24 in	32 in	⅜ in	6LUL9
2 ft 8 in	3 ft 3 in	⅜ in	6LUN0
3 ft	5 ft	⅜ in	6LUN1
3 ft	6 ft	⅜ in	6LUN2

Indoor Carpet Entrance Mats

Barrier Rib

Arrow Trax

Estes

Uptown

Guzzler

Portrait

Dante

Heritage Rib

Sabre Decalon

Combine mats to create a zoned entrance system that protects floors and reduces slip hazard by removing dirt, debris, and moisture from footwear. **Rubber-backed mats** have cleated backing to reduce mat movement, and molded beveled edging that creates a retention dam to trap moisture. **Vinyl-backed mats** reduce mat movement, and have beveled edges to help minimize tripping.

HEAVY-TRAFFIC

Barrier Rib—Durable, antimicrobial, 26-oz. crush-resistant mat has a molded dual-ridge/cross-rib pattern and carpeted beveled edges for maximum scraping and debris.

Arrow Trax—Chevron design provides nondirectional scraping and moisture retention. 38 oz. of yarn per sq. yd.

Estes—High/low, dense-tufted 33-oz. berber provides excellent water retention.

Uptown—High/low, looped-pile, upscale carpet retains moisture with 40 oz. of tufted, crush-resistant Decalon yarn per sq. yd.

MEDIUM- TO HEAVY-TRAFFIC

Guzzler—High/low, crushproof waffle design and rubber-edged perimeter provide superior water and soil control, with a low profile to fit under narrow clearances. 26 oz. of yarn per sq. yd.

Portrait—Tri-rib, high/low parquet design provides nondirectional scraping as traffic passes from all directions. Low profile is good for narrow-clearances. 26 oz. of yarn per sq. yd.

Dante—Densely tufted cut-pile Decalon construction features 24 oz. of tufted yarn per sq. yd.

Heritage Rib—Heavier-weight, double-rib high/low design provides extra moisture retention and scraping action. 24 oz. of yarn per sq. yd.

LIGHT- TO MEDIUM-TRAFFIC

Sabre Decalon—Mat offers good moisture and grime retention. 19 oz. of colorfast Decalon yarn affords functional service and easy cleanup.

NOTRAX MATS FOR PROFESSIONAL USE

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Mfr. Model	Item No.
Heavy-Traffic, Rubber-Backed						
Barrier Rib						
Charcoal	Loop Pile	2 ft	3 ft	⅜ in	161	**25PN14**
		3 ft	4 ft	⅜ in	161	**25PN20**
Burgundy		3 ft	5 ft	⅜ in	161	**25PN23**
Charcoal		3 ft	10 ft	⅜ in	161	**8W038**
Brown, Charcoal, Slate Blue		4 ft	6 ft	⅜ in	161	**E4979**
Black, Blue		4 ft	10 ft	⅜ in	161	**E4980**
Heavy-Traffic, Vinyl-Backed						
Arrow Trax						
Black, Brown	Needle Punch	2 ft	3 ft	⅜ in	118	**F1826**
Black		3 ft	4 ft	⅜ in	118	**9GK73**
Charcoal		3 ft	5 ft	⅜ in	118	**3H396**
Black		3 ft	6 ft	⅜ in	118	**8EEG7**
Charcoal		3 ft	8 ft	⅜ in	118	**45WL10**
		3 ft	10 ft	⅜ in	118	**5FX31**
		3 ft	12 ft	⅜ in	118	**45WL11**
		3 ft	16 ft	⅜ in	118	**45WL12**
		3 ft	20 ft	⅜ in	118	**45WL13**
Brown, Charcoal, Gray		4 ft	6 ft	⅜ in	118	**E7325**
Charcoal		4 ft	8 ft	⅜ in	118	**3H397**
Brown, Charcoal		4 ft	10 ft	⅜ in	118	**E7326**
Charcoal		4 ft	20 ft	⅜ in	118	**45WL14**
		6 ft	8 ft	⅜ in	118	**45WL15**
		6 ft	10 ft	⅜ in	118	**45WL16**
		6 ft	20 ft	⅜ in	118	**45WL17**

▶CHOOSE: Color	Mat Weaving	W	L	Thickness	Mfr. Model	Item No.
Estes						
Dark Gray	Loop Pile	2 ft	3 ft	⅜ in	132	**3UFD1**
Navy		2 ft	3 ft	⅜ in	132	**40K303**
Dark Gray		3 ft	4 ft	⅜ in	132	**3UFD9**
Brown, Charcoal, Navy		3 ft	5 ft	⅜ in	132	**E9020**
Brown, Dark Gray		3 ft	6 ft	⅜ in	132	**E9021**
Navy		3 ft	6 ft	⅜ in	132	**40K308**
Brown, Charcoal, Navy		3 ft	10 ft	⅜ in	132	**D9158**
Brown	Loop Pile	4 ft	6 ft	⅜ in	132	**E9022**
Charcoal, Navy		4 ft	6 ft	⅜ in	132	**E9022**
Gray		4 ft	8 ft	⅜ in	132	**3UFG9**
Navy		4 ft	8 ft	⅜ in	132	**40K311**
Charcoal		6 ft	60 ft	⅜ in	132	**40K298**
Uptown						
Charcoal	Loop Pile	2 ft	3 ft	⅜ in	138	**9KET8**
		3 ft	4 ft	⅜ in	138	**9GV63**
Brown, Charcoal, Navy		3 ft	5 ft	⅜ in	138	**D9153**
Charcoal		3 ft	6 ft	⅜ in	138	**9MUH8**
Brown, Charcoal, Navy		3 ft	10 ft	⅜ in	138	**D9155**
		4 ft	6 ft	⅜ in	138	**D9154**
Charcoal		4 ft	8 ft	⅜ in	138	**9N072**
Medium- to Heavy-Traffic, Rubber-Backed						
Guzzler						
Charcoal	Loop Pile	2 ft	3 ft	⅜ in	166	**25PN27**
		3 ft	4 ft	⅜ in	166	**25PN34**
Brown, Burgundy, Charcoal, Hunter Green		3 ft	5 ft	⅜ in	166	**D9166**
Charcoal		3 ft	10 ft	⅜ in	166	**25PN47**
Brown, Burgundy, Charcoal		4 ft	6 ft	⅜ in	166	**D9167**
Charcoal		4 ft	10 ft	⅜ in	166	**25PN54**
Portrait						
Brown	Loop Pile	2 ft	3 ft	⅜ in	167	**25PN59**
Charcoal		2 ft	3 ft	⅜ in	167	**25PN61**
Brown		3 ft	4 ft	⅜ in	167	**25PN65**
Blue, Brown, Burgundy, Charcoal		3 ft	5 ft	⅜ in	167	**D9164**
Blue, Brown, Burgundy, Charcoal, Hunter Green		4 ft	6 ft	⅜ in	167	**D9165**
Medium- to Heavy-Traffic, Vinyl-Backed						
Dante						
Brown	Cut Pile	3 ft	4 ft	⅜ in	131	**40K249**
Charcoal		3 ft	4 ft	⅜ in	131	**40K250**
Brown, Charcoal		3 ft	5 ft	⅜ in	131	**J5819**
Brown		3 ft	6 ft	⅜ in	131	**40K261**
Charcoal		3 ft	6 ft	⅜ in	131	**40K262**
Brown		3 ft	10 ft	⅜ in	131	**40K279**
Charcoal		3 ft	10 ft	⅜ in	131	**40K280**
Brown, Charcoal		4 ft	6 ft	⅜ in	131	**J5820**
Brown		4 ft	8 ft	⅜ in	131	**40K273**
Charcoal		4 ft	8 ft	⅜ in	131	**40K274**
Heritage Rib						
Charcoal	Needle Punch	3 ft	4 ft	⅜ in	117	**40K188**
Brown, Charcoal, Gray		3 ft	5 ft	⅜ in	117	**E9401**
Charcoal		3 ft	6 ft	⅜ in	117	**3UFK8**
Brown, Charcoal, Red/Black		3 ft	10 ft	⅜ in	117	**D9159**
Charcoal		3 ft	20 ft	⅜ in	117	**45WK97**
Brown, Charcoal, Gray		4 ft	6 ft	⅜ in	117	**E9403**
Charcoal		4 ft	10 ft	⅜ in	117	**45WK99**
		4 ft	20 ft	⅜ in	117	**45WL02**
		4 ft	60 ft	⅜ in	117	**40K178**
		6 ft	60 ft	⅜ in	117	**40K183**
Light- to Medium-Traffic, Vinyl-Backed						
Sabre Decalon						
Charcoal	Cut Pile	2 ft	3 ft	5/16 in	130	**3UFP5**
		3 ft	4 ft	5/16 in	130	**40K209**
Red/Black		3 ft	4 ft	5/16 in	130	**40K212**
Blue		3 ft	5 ft	5/16 in	130	**40K213**
Charcoal, Red/Black		3 ft	5 ft	5/16 in	130	**D9161**
Charcoal		3 ft	6 ft	5/16 in	130	**3UFT1**
		3 ft	10 ft	5/16 in	130	**40K220**
Burgundy		3 ft	60 ft	5/16 in	130	**8E558**
Blue		4 ft	6 ft	5/16 in	130	**40K215**
Charcoal, Dark Brown, Red/Black		4 ft	6 ft	5/16 in	130	**E9410**
Charcoal		4 ft	10 ft	5/16 in	130	**45WL26**
Blue		4 ft	60 ft	5/16 in	130	**40K195**

Scrape & Dry Indoor Carpet Entrance Mats

NOTRAX MATS FOR PROFESSIONAL USE

Ideal for handling medium traffic at large entrances, this color-coordinated runner combines three functional mats into one design. The first zone features a looped, nonabsorbent yarn to scrape debris and moisture from foot traffic. The second zone combines looped scraper yarns with absorbent looped pile to begin the drying process. The third zone consists of looped pile to complete the drying function. Nonslip vinyl backing. Beveled edges minimize tripping.

Charcoal
E1607

▶CHOOSE: Color	W	L	Thickness	Item No.
Charcoal,	3 ft	12 ft	⅜ in	**E1605**
Gray	4 ft	12 ft	⅜ in	**E1607**

Boot Scraper

NOTRAX MATS FOR PROFESSIONAL USE

Removes dirt, grass clippings, snow, and sand from the bottom and sides of your boots. Flexible rubber fingertips quickly remove debris before it is tracked into your facility. Bolt down for permanent installation or use as a mobile entrance mat.

W	L	Item No.
12 in	15 in	**52ZX91**

6MRU6

NOTRAX MATS FOR PROFESSIONAL USE

Outdoor Oct-O-Flex Entrance Mats

Durable rubber entrance mats have holes for drainage and heavy-duty beveled edges. Top surface removes snow, rain, and dirt from shoes. Raised knobbed underside reduces mat movement. Black color.

W	L	Thickness	Mfr. Model	Item No.
27 in	3 ft	½ in	599	**6MRU6**
3 ft	5 ft	½ in	599	**6MRU7**
4 ft	6 ft	½ in	599	**6MRU8**

Antifatigue & Drainage Mat Definitions

KEY PROPERTIES:

Oil & Grease-Resistant is made from non-laminated foam construction that makes it more resistant to oil and grease than other materials.

Welding Safe is made of laminated materials that resist damage caused by incidental contact with sparks.

Antimicrobial is made of materials that include antimicrobial treatments to inhibit the growth of mildew, mold, and bacteria that can cause odors and spread germs.

Autoclavable withstands exposure to hospital-grade cleaning chemicals and sterilization in an autoclave.

SURFACE DESIGN: Describes the appearance or texture of the top of the mat. Textured surfaces usually add some gripping power or slip resistance over smooth surfaces, which are used in dry areas. Decorative surfaces are generally used in customer-facing locations.

MAT COLOR: Usually chosen to match an interior design or workspace. Contrasting borders call attention to the transition to reduce tripping.

MAT MATERIAL:

Natural Rubber resists damage caused by incidental contact with grease and oil.

Nitrile Rubber resists extended exposure to grease, oil, and some chemicals.

Polyurethane is highly durable and chemical resistant and usually has a longer lifespan than vinyl.

Rubber Laminate has a flexible sponge base and a durable rubber top that resists damage caused by incidental contact with grease and oil.

Sponge Foam is made of flexible sponge-like material to relieve strain from standing or walking and has limited resistance to oil, grease, and chemicals.

Vinyl resists damage caused by incidental contact with some chemicals and acids.

Vinyl Laminate has a flexible sponge base and a durable vinyl top that resists damage caused by incidental contact with chemicals and some acids.

EDGE STYLE:

Beveled has a graduated edge to help prevent tripping and make it easier to roll equipment over.

Straight sits flush to walls and other edges to ease cleaning and sweeping.

MAT HARDNESS: Relates to how much the mat compresses when walked or stood on. Harder mats are easier to push carts across and are usually chosen for walkways. Softer mats are generally used where workers stand for long periods of time.

Standard Antifatigue Mats

NOTRAX MATS FOR PROFESSIONAL USE · Condor · SANDEL®

- Beveled edge

Mat material compresses to help absorb pressure to reduce fatigue and joint pain. Suitable for use in dry settings that aren't exposed to oil, grease, heat, and chemicals.

Size (WxL)	Mat Material	Anti-Slip Backing	Series	Brand	BLACK Thickness	BLACK Item No.	BLACK WITH YELLOW BORDER Thickness	BLACK WITH YELLOW BORDER Item No.
Mat								
Bubble, Soft								
2 ft x 3 ft	Rubber	Yes	447Comfort-Eze	Notrax	⅜ in	**52ZY13**	—	—
30 in x 5 ft	Rubber	Yes	447Comfort-Eze	Notrax	⅜ in	**5W617**	—	—
30 in x 10 ft	Rubber	Yes	447Comfort-Eze	Notrax	⅜ in	**5FX52**	—	—
Diamond Plate, Soft								
2 ft x 3 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**39R791**	½ in	**39R797**
3 ft x 5 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**39R793**	½ in	**39R799**
3 ft x 12 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**39R794**	½ in	**39R801**
Diamond Plate, Super-Soft								
30 in x 3 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W607**	1 in	**38W608**
30 in x 5 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W609**	1 in	**38W610**
30 in x 8 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W611**	1 in	**38W612**
3 ft x 3 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W613**	1 in	**38W614**
3 ft x 5 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38N619**	1 in	**38N620**
3 ft x 8 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W615**	1 in	**38W616**
3 ft x 10 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38N621**	1 in	**38N622**
4 ft x 6 ft	Vinyl	Yes	621 Diamond Flex-Lok Solid	Notrax	1 in	**38W619**	1 in	**38W620**
Pebble, Soft								
2 ft x 3 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**3TTN9**	—	—
3 ft x 5 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**3TTP3**	—	—
3 ft x 12 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**3TTP6**	—	—
3 ft x 12 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	9/16 in	**3TTR6**	—	—
4 ft x 5 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	—	—	⅜ in	**52ZY07**
Ribbed, Soft								
2 ft x 3 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**4DE12**	⅜ in	**3UET9**
3 ft x 5 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**4DE14**	⅜ in	**3TRR9**
3 ft x 12 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**3U018**	⅜ in	**4LNH3**
3 ft x 30 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**45WL74**	⅜ in	**45WL75**
4 ft x 30 ft	PVC Foam	Yes	410 Airug	Notrax	—	—	⅜ in	**45WL83**
Ribbed, Super-Soft								
2 ft x 30 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**8TT29**	⅝ in	**8ZFT1**
3 ft x 10 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**45WM01**	⅝ in	**45WM02**
3 ft x 30 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**4LNH9**	⅝ in	**4LNJ1**
3 ft x 4 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**45WL94**	⅝ in	**45WL95**
3 ft x 5 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**3UGD1**	⅝ in	**3UGD3**
3 ft x 6 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**45WL96**	⅝ in	**45WL97**
4 ft x 6 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**45WM03**	⅝ in	**45WM04**
4 ft x 10 ft	PVC Foam	Yes	410 Airug	Notrax	⅝ in	**45WM07**	—	—
Roll								
Diamond Plate, Soft								
2 ft x 60 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**39R795**	½ in	**39R802**
3 ft x 60 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**39R796**	½ in	**39R803**
4 ft x 60 ft	PVC Foam	Yes	508 Diamond Cushion	Condor	½ in	**36VL01**	½ in	**36VL02**
Pebble, Soft								
2 ft x 60 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**8NR02**	—	—
3 ft x 60 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**8GLU6**	⅜ in	**52ZY04**
3 ft x 60 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	9/16 in	**8XGH0**	9/16 in	**52ZY06**
4 ft x 60 ft	PVC Foam	Yes	411 Sof-Tred	Notrax	⅜ in	**9RHZ4**	—	—
Ribbed, Soft								
2 ft x 60 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**5Z179**	⅜ in	**8UM79**
3 ft x 60 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**5Z056**	⅜ in	**8XZP4**
4 ft x 60 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**5FX44**	⅜ in	**8CC80**
6 ft x 60 ft	PVC Foam	Yes	410 Airug	Notrax	⅜ in	**25PJ23**	—	—

Size (WxL)	Mat Material	Anti-Slip Backing	Series	Brand	ORANGE Thickness	ORANGE Item No.
Mat						
Smooth, Super-Soft						
13 in x 17 in	Polyurethane	No	ErgoPlus	Sandel	¾ in	**499A36**
20 in x 32 in	Polyurethane	No	ErgoPlus	Sandel	¾ in	**499A37**
20 in x 4 ft	Polyurethane	No	ErgoPlus	Sandel	¾ in	**499A38**

Bubble, Soft
52ZY13

Diamond Plate, Soft
39R791 and 39R797

Diamond Plate, Super Soft
38W607

Pebble, Soft
52ZY07

Ribbed, Super Soft
45WM02

Ribbed, Soft
5Z056

Smooth, Super-Soft
499A36

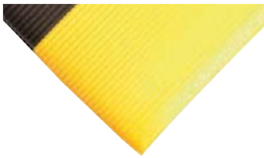
Bubble, Soft
3VFP7

Diamond Plate, Super-Soft
53AD96

Diamond Plate, Super-Soft
5MDD2

Pebble, Soft
25PJ40

Diamond Plate, Soft
3BY50



Ribbed, Soft
9NKJ3

Marble, Super-Soft
5MDK4

Marble, Soft
5MDJ9

NOTRAX®
MATS FOR PROFESSIONAL USE

Wear-Resistant Antifatigue Mats

- Beveled edge
- Anti-Slip backing

These tough antifatigue mats are made of or are coated with materials that make them more durable than standard mats. They also resist damage caused by some light chemicals used in cleaning and general maintenance.

Size (WxL)	Mat Material	Series	BLACK Thickness	BLACK Item No.	BLACK WITH YELLOW BORDER Thickness	BLACK WITH YELLOW BORDER Item No.
Mat						
Bubble, Soft						
2 ft x 3 ft	PVC Foam	417 Bubble Sof-Tred with Dyna-Shield	½ in	3VFP7	½ in	6PY94
3 ft x 5 ft			½ in	3VFP9	½ in	6PY95
3 ft x 12 ft			½ in	3VFR2	½ in	6PY96
Bubble, Super-Soft						
2 ft x 3 ft	Vinyl over PVC Foam	782 Bubble Trax Ultra	¾ in	38N587	¾ in	38N589
3 ft x 5 ft			¾ in	38N590	¾ in	38N592
3 ft x 12 ft			¾ in	38N593	¾ in	38N595
Diamond Plate, Soft						
2 ft x 8 ft	PVC Foam	419 Diamond Sof-Tred with Dyna-Shield	—	—	½ in	1LYZ1
3 ft x 4 ft			½ in	25PJ64	½ in	25PJ65
3 ft x 5 ft			½ in	5FX48	½ in	3BY50
3 ft x 6 ft			½ in	25PJ68	½ in	25PJ69
3 ft x 12 ft			½ in	5FX51	½ in	3BY51
3 ft x 20 ft			—	—	½ in	5HA66
2 ft x 6 ft	Vinyl over Nitrile/Rubber Foam	485 Ergo Trax	9/16 in	52ZY30	9/16 in	52ZY31
2 ft x 12 ft			—	—	9/16 in	52ZY63
3 ft x 4 ft			—	—	9/16 in	52ZY39
3 ft x 5 ft			9/16 in	52ZY40	9/16 in	52ZY42
3 ft x 6 ft			—	—	9/16 in	52ZY44
3 ft x 8 ft			—	—	9/16 in	52ZY48
3 ft x 10 ft			9/16 in	52ZY72	9/16 in	52ZY73
3 ft x 12 ft			—	—	9/16 in	52ZY77
3 ft x 15 ft			—	—	9/16 in	52ZY82
3 ft x 20 ft			—	—	9/16 in	52ZY89
5 ft x 5 ft			—	—	9/16 in	52ZY58
2 ft x 3 ft	Vinyl over PVC Foam	479 Cushion Trax	—	—	9/16 in	5MDL0
3 ft x 5 ft			—	—	9/16 in	5MDL1
3 ft x 12 ft			—	—	9/16 in	5MDL2

Size (WxL)	Mat Material	Series	BLACK Thickness	BLACK Item No.	BLACK WITH YELLOW BORDER Thickness	BLACK WITH YELLOW BORDER Item No.
Diamond Plate, Super-Soft						
2 ft x 3 ft	Vinyl over Nitrile/Rubber Foam	985 Ergo Trax Grande	—	—	1 in	53AD84
2 ft x 5 ft			—	—	1 in	53AD88
2 ft x 6 ft			—	—	1 in	53AD90
2 ft x 8 ft			—	—	1 in	53AD93
3 ft x 3 ft			1 in	53AD96	—	—
3 ft x 4 ft			1 in	53AD98	—	—
3 ft x 5 ft			1 in	53AE01	—	—
3 ft x 7 ft			—	—	1 in	53AE07
4 ft x 6 ft			—	—	1 in	53AE17
4 ft x 8 ft			—	—	1 in	53AE21
2 ft x 3 ft	Vinyl over PVC Foam	975 Cushion Trax Ultra	¾ in	5MDC8	¾ in	5MDC9
2 ft x 3 ft		979 Saddle Trax	1 in	9YEX7	—	—
3 ft x 5 ft		975 Cushion Trax Ultra	¾ in	5MDD0	¾ in	5MDD1
3 ft x 5 ft		979 Saddle Trax	—	—	1 in	5MDL4
3 ft x 12 ft		975 Cushion Trax Ultra	¾ in	5MDD2	¾ in	5MDD3
3 ft x 12 ft		979 Saddle Trax	—	—	1 in	5MDL5
Pebble, Soft						
2 ft x 3 ft	PVC Foam	415 Pebble Step Sof-Tred with Dyna-Shield	⅜ in	25PJ40	⅜ in	5W712
2 ft x 4 ft			⅜ in	45WM09	⅜ in	45WM10
2 ft x 6 ft			⅜ in	25PJ41	⅜ in	25PJ42
2 ft x 8 ft			⅜ in	45WM11	⅜ in	45WM12
2 ft x 10 ft			⅜ in	45WM13	⅜ in	45WM14
3 ft x 3 ft			⅜ in	45WM17	⅜ in	45WM18
3 ft x 4 ft			⅜ in	25PJ43	⅜ in	25PJ44
3 ft x 5 ft			⅜ in	25PJ45	⅜ in	5W713
3 ft x 6 ft			⅜ in	25PJ46	⅜ in	25PJ47
3 ft x 8 ft			⅜ in	45WM19	⅜ in	45WM20
3 ft x 10 ft			⅜ in	45WM21	⅜ in	45WM22
3 ft x 12 ft			⅜ in	25PJ48	⅜ in	5W714
4 ft x 6 ft			⅜ in	45WM25	⅜ in	45WM26
4 ft x 8 ft			⅜ in	45WM27	⅜ in	45WM28
4 ft x 10 ft			⅜ in	45WM29	⅜ in	45WM30
Pebble, Super-Soft						
2 ft x 3 ft	PVC Foam	415 Pebble Step Sof-Tred with Dyna-Shield	⅝ in	8PRV7	—	—
3 ft x 5 ft			⅝ in	8GPE7	—	—
Ribbed, Soft						
2 ft x 3 ft	PVC Foam	413 Blade Runner with Dyna-Shield	½ in	3VFN5	½ in	3VFN7
2 ft x 6 ft			—	—	½ in	9NKJ3
3 ft x 4 ft			½ in	9UFX8	½ in	9DVT9
3 ft x 5 ft			½ in	3VFN8	½ in	3VFP1
3 ft x 6 ft			½ in	8EXC7	½ in	9CTT0
3 ft x 12 ft			½ in	3VFP3	½ in	3VFP5
2 ft x 3 ft	Vinyl over PVC Foam	474 Ergo Mat	½ in	5MDL6	—	—
3 ft x 5 ft			½ in	5MDL7	—	—
3 ft x 12 ft			½ in	5MDL8	—	—
Ribbed, Super-Soft						
2 ft x 3 ft	Vinyl over PVC Foam	974 Ergo Mat Grande	1 in	9YHK3	—	—
3 ft x 5 ft			1 in	9Y975	—	—
3 ft x 12 ft			1 in	9YEY4	—	—
4 ft x 6 ft			1 in	9YK76	—	—
Roll						
Bubble, Soft						
3 ft x 60 ft	PVC Foam	417 Bubble Sof-Tred with Dyna-Shield	½ in	8TKV0	½ in	6PY97
Diamond Plate, Soft						
2 ft x 60 ft	PVC Foam	419 Diamond Sof-Tred with Dyna-Shield	½ in	8VMH0	½ in	5HA62
3 ft x 60 ft			½ in	5FX46	½ in	3BY52
4 ft x 75 ft			½ in	38AY09	—	—
3 ft x 75 ft	Vinyl over Nitrile/Rubber Foam	485 Ergo Trax	9/16 in	52ZY20	9/16 in	52ZY21
Diamond Plate, Super-Soft						
2 ft x 75 ft	Vinyl over Nitrile/Rubber Foam	985 Ergo Trax Grande	—	—	1 in	53AD79
3 ft x 75 ft			1 in	53AD80	1 in	53AD81
3 ft x 75 ft	Vinyl over PVC Foam	975 Cushion Trax Ultra	¾ in	5MDD4	¾ in	5MDD5
4 ft x 75 ft			¾ in	5MDD6	¾ in	5MDD7
Pebble, Soft						
2 ft x 60 ft	PVC Foam	415 Pebble Step Sof-Tred with Dyna-Shield	⅜ in	25PJ35	⅜ in	25PJ36
3 ft x 60 ft			⅜ in	25PJ37	⅜ in	5Z275
4 ft x 60 ft			⅜ in	25PJ38	⅜ in	25PJ39
Ribbed, Super-Soft						
2 ft x 75 ft	Vinyl over PVC Foam	974 Ergo Mat Grande	1 in	9Y891	—	—

Size (WxL)	Mat Material	Series	BLACK Thickness	BLACK Item No.	BLUE Thickness	BLUE Item No.	GRAY Thickness	GRAY Item No.
Mat								
Marble, Soft								
2 ft x 3 ft	Vinyl over PVC Foam	470 Marble Sof-Tyle	½ in	5MDJ8	½ in	5MDJ9	½ in	9TA61
3 ft x 5 ft			½ in	5MDK0	½ in	5MDK1	—	—
3 ft x 12 ft			½ in	5MDK2	½ in	5MDK3	½ in	25PL86
Marble, Super-Soft								
2 ft x 3 ft	Vinyl over PVC Foam	970 Marble Sof-Tyle Grande	1 in	5MDK4	1 in	5MDK5	1 in	9YGM9
3 ft x 5 ft			1 in	5MDK6	1 in	5MDK7	—	—
3 ft x 12 ft			1 in	5MDK8	1 in	5MDK9	—	—
4 ft x 6 ft			—	—	—	—	1 in	9YAX8

Oil & Grease-Resistant Antifatigue Mats

NOTRAX MATS FOR PROFESSIONAL USE

- Beveled edge
- Raised pattern surface
- Anti-Slip backing
- Black color

Nonlaminated foam construction makes these antifatigue mats more resistant to oil and grease than other materials. They are often used in food service.

Diamond Grid, Super-Soft 60RA56

Pebble, Super-Soft 3UFC1

Size (WxL)	Thickness	Mat Material	Washdown Safe	Thermally Insulating	Series	Item No.
Mat						
Diamond Grid, Super-Soft						
2 ft x 3 ft	⅝ in	Polyurethane	No	Yes	454 Ergo Comfort	**60RA56**
Pebble, Super-Soft						
2 ft x 3 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W55**
3 ft x 3 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W56**
3 ft x 5 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W57**
3 ft x 8 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W58**
3 ft x 12 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**3UFD2**
3 ft x 2 ft	⅝ in	Nitrile Foam	Yes	No	T17 Superfoam	**3UFC1**
3 ft x 5 ft	⅝ in	Nitrile Foam	No	Yes	T17 Superfoam	**38ZA91**
3 ft x 5 ft	⅝ in	Nitrile Foam	Yes	No	T17 Superfoam	**3UFC3**
3 ft x 8 ft	⅝ in	Nitrile Foam	Yes	No	T17 Superfoam	**3UFC5**
4 ft x 8 ft	⅝ in	Nitrile Foam	Yes	No	T17 Superfoam	**9N344**
Roll						
Pebble, Super-Soft						
2 ft x 75 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W52**
3 ft x 75 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W53**
4 ft x 75 ft	¾ in	Nitrile Foam	No	Yes	440 Superfoam Comfort	**414W54**

Welding Safe Antifatigue Mats

NOTRAX MATS FOR PROFESSIONAL USE

- Beveled edge
- Raised pattern surface
- Anti-Slip backing
- Thermally insulating

Antifatigue mats safe for use in welding applications are made of laminated materials that resist damage caused by contact with slag and sparks.

Diamond Plate, Super Soft 5MDE1

Pebble, Soft 52ZY17

Size (WxL)	Mat Material	Series	BLACK Thickness	BLACK Item No.	BLACK WITH YELLOW BORDER Thickness	BLACK WITH YELLOW BORDER Item No.
Mat						
Diamond Plate, Soft						
2 ft x 3 ft	Nitrile Rubber over PVC Foam	490 Dura Trax	9⁄16 in	**30RJ48**	9⁄16 in	**30RJ53**
3 ft x 5 ft	Nitrile Rubber over PVC Foam	490 Dura Trax	9⁄16 in	**30RJ49**	9⁄16 in	**30RJ54**
Diamond Plate, Super-Soft						
3 ft x 5 ft	Nitrile Rubber over PVC Foam	990 Dura Trax Grande	1 in	**30RJ59**	1 in	**30RJ64**
3 ft x 5 ft	Nitrile Rubber over PVC Foam	976 Dura Trax Ultra	¾ in	**5MDE0**	¾ in	**5MDE1**
3 ft x 12 ft	Nitrile Rubber over PVC Foam	976 Dura Trax Ultra	¾ in	**5MDE2**	¾ in	**5MDE3**
Pebble, Soft						
3 ft x 8 ft	Rubber over PVC Foam	480 Pebble Trax	½ in	**52ZY17**	—	—
2 ft x 3 ft	Rubber over PVC Foam	480 Pebble Trax	½ in	**5MDL9**	—	—
3 ft x 5 ft	Rubber over PVC Foam	480 Pebble Trax	½ in	**5MDN0**	—	—
Roll						
Diamond Plate, Soft						
4 ft x 75 ft	Nitrile Rubber over PVC Foam	490 Dura Trax	9⁄16 in	**30RJ52**	9⁄16 in	**30RJ57**
2 ft x 75 ft	Nitrile Rubber over PVC Foam	490 Dura Trax	—	—	9⁄16 in	**30RJ55**
3 ft x 75 ft	Nitrile Rubber over PVC Foam	490 Dura Trax	—	—	9⁄16 in	**30RJ56**
Diamond Plate, Super-Soft						
3 ft x 75 ft	Nitrile Rubber over PVC Foam	976 Dura Trax Ultra	¾ in	**5MDE4**	¾ in	**5MDE5**
4 ft x 75 ft	Nitrile Rubber over PVC Foam	976 Dura Trax Ultra	—	—	¾ in	**5MDE7**

Antimicrobial Antifatigue Mats

FLOORTEX solutions · 3M · NOTRAX MATS FOR PROFESSIONAL USE

- Anti-Slip backing

These mats inhibit the growth of mildew, mold, and bacteria that can cause odors and spread germs. They are often used in healthcare and food service settings.

Smooth, Super-Soft 429J33

Textured, Soft 1TJB2

Textured, Super-Soft 414X06

Size (WxL)	Surface	Mat Material	Edge Style	Thermally Insulating	Series	Brand	BLACK Thickness	BLACK Item No.	GRAY Thickness	GRAY Item No.
Mat										
Smooth, Super-Soft										
16 in x 2 ft	Smooth	Polyurethane	Beveled	No	AFS-TEX System 2000	Floortex	43⁄64 in	**429J32**	43⁄64 in	**429J33**
20 in x 32 in	Smooth	Polyurethane	Beveled	No	AFS-TEX System 2000	Floortex	43⁄64 in	**429J34**	43⁄64 in	**429J35**
Textured, Soft										
2 ft x 5 ft	Grit	Vinyl	Beveled	No	Safety-Walk 3270E	3M	14 mm	**1TJB2**	—	—
3 ft x 10 ft	Grit	Vinyl	Beveled	No	Safety-Walk 3270E	3M	14 mm	**2JCZ7**	—	—
3 ft x 20 ft	Grit	Vinyl	Straight	No	Safety-Walk 3270E	3M	12 mm	**2JDC4**	—	—
4 ft x 10 ft	Grit	Vinyl	Beveled	No	Safety-Walk 3270E	3M	14 mm	**2GKH4**	—	—
3 ft x 10 ft	Grit	Vinyl	Straight	No	Safety-Walk 3270	3M	14 mm	**2JDC3**	—	—
3 ft x 20 ft	Grit	Vinyl	Straight	No	Safety-Walk 3270	3M	14 mm	**2JDA7**	—	—
4 ft x 6 ft	Grit	Vinyl	Beveled	No	Safety-Walk 3270	3M	14 mm	**1TJB3**	—	—
Textured, Super-Soft										
3 ft x 5 ft	Grit	Vinyl	Beveled	No	Safety-Walk 5270E	3M	16 mm	**1TJB4**	—	—
4 ft x 6 ft	Grit	Vinyl	Beveled	No	Safety-Walk 5270	3M	16 mm	**1TJB5**	—	—
18 in x 2 ft	Raised Pattern	Nitrile Foam	Beveled	Yes	425 Superfoam Revive RS	Notrax	¾ in	**414X05**	—	—
2 ft x 40 in	Raised Pattern	Nitrile Foam	Beveled	Yes	425 Superfoam Revive RS	Notrax	¾ in	**414X06**	—	—
2 ft x 6 ft	Raised Pattern	Nitrile Foam	Beveled	Yes	425 Superfoam Revive RS	Notrax	¾ in	**414X07**	—	—
3 ft x 40 in	Raised Pattern	Nitrile Foam	Beveled	Yes	425 Superfoam Revive RS	Notrax	¾ in	**414X08**	—	—
3 ft x 5 ft	Raised Pattern	Nitrile Foam	Beveled	Yes	425 Superfoam Revive RS	Notrax	¾ in	**414X09**	—	—

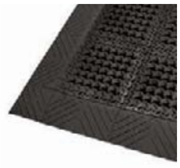
Autoclavable Antifatigue Mat

NOTRAX MATS FOR PROFESSIONAL USE

- Beveled edge
- Bubble Raised pattern surface
- Anti-Slip backing
- Gray color

This mat withstands exposure to hospital-grade cleaning chemicals and sterilization in an autoclave. It is made of materials that incorporate antimicrobial substances to prevent bacterial growth and provide some resistance to fungi and viruses. Used in operating rooms, labs, and other locations that require sterile equipment.

Size (WxL)	Thickness	Mat Material	Series	Item No.
2 ft x 3 ft	⅜ in	Nitrile Rubber	448 Autoclavable Bubble Mat	**52ZY14**



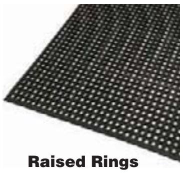
Diamond Plate
4CKN4

Diamond Tread
6Z507

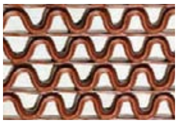
Pyramid
3UFA1

Raised Bones
2RPK8

Raised Diamond Studs
34L279



Raised Rings
6LUL1



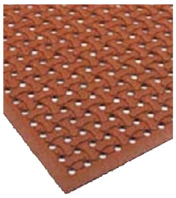
Z-Web
423J06

Standard Drainage Mats

Mats reduce fatigue and joint pain. Holes in mats allow water and other liquid hazards to pass through the top of the mat, reducing the likelihood of injury from slipping. They are suitable for use in wet areas that aren't exposed to oil, grease, heat, and chemicals.

Size (WxL)	Thickness	Surface Material	Drainage Hole	Reversible	No. of Beveled Edges	Series	Brand	BLACK Item No.	BLACK WITH YELLOW BORDER Item No.	RED Item No.
Mat										
Diamond Plate										
30 in x 5 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**3LCY6**	**8FGW2**	—
3 ft x 10 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**4CKN5**	**1THG4**	—
3 ft x 3 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**3LCY8**	**9GNH8**	—
3 ft x 5 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**4CKN4**	**1THG3**	—
42 in x 6 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**3LCY7**	**9LML5**	—
42 in x 8 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	**25PK84**	—	—
4 ft x 6 ft	1 in	PVC	½ in Circle	No	3	620 Diamond Flex-Lok	Notrax	—	**9RD76**	—
Diamond Tread										
30 in x 3 ft	⅞ in	PVC	½ in Diamond	No	3	520 Cushion-Lok	Notrax	—	**6Z507**	—
30 in x 4 ft	⅞ in	PVC	½ in Diamond	No	3	520 Cushion-Lok	Notrax	—	**6Z508**	—
30 in x 5 ft	⅞ in	PVC	½ in Diamond	No	3	520 Cushion-Lok	Notrax	—	**6Z926**	—
Pyramid										
3 ft x 4 ft	7/16 in	PVC	½ in x 1 ⅞ in Slot	No	0	420 Cushion-Dek	Notrax	**3UFA1**	—	—
3 ft x 5 ft	7/16 in	PVC	½ in x 1 ⅞ in Slot	No	0	420 Cushion-Dek	Notrax	**52ZY11**	—	—
Raised Bones										
3 ft x 5 ft	⅝ in	Rubber	½ in Circle	Yes	4	T18 Superflow	Notrax	**2RPK8**	—	—
4 ft x 6 ft	⅝ in	Rubber	½ in Circle	Yes	4	T18 Superflow	Notrax	**25PL50**	—	—
Raised Diamond Studs										
28 in x 40 in	¾ in	Rubber	1 in Circle	No	3	514 Sure Step	Notrax	—	**34L279**	—
40 in x 64 in	¾ in	Rubber	1 in Circle	No	4	514 Sure Step	Notrax	—	**34L281**	—
38 in x 64 in	⅞ in	Rubber	1 in Circle	No	3	549 Safety Stance	Notrax	—	**4YJ19**	—
Raised Rings										
3 ft x 5 ft	¾ in	Rubber	1 in Circle	No	0	T25 Challenger	Notrax	**39R804**	—	—
3 ft x 15 ft	½ in	Rubber	⅞ in Circle	No	4	619 Drain Lite	Notrax	**6LUL3**	—	—
3 ft x 10 ft	¾ in	Rubber	1 in Circle	No	0	T25 Challenger	Notrax	**39R805**	—	—
3 ft x 5 ft	½ in	Rubber	1 ⅛ in Circle	No	4	T30 Competitor	Condor	**30CM51**	—	—
3 ft x 5 ft	½ in	Rubber	1 in Circle	No	4	562 Sanitop	Notrax	**4DB96**	—	—
3 ft x 5 ft	½ in	Rubber	⅞ in Circle	No	4	619 Drain Lite	Notrax	**6LUL1**	—	—
3 ft x 10 ft	½ in	Rubber	1 in Circle	No	4	562 Sanitop	Notrax	**4DB98**	—	—
3 ft x 10 ft	½ in	Rubber	⅞ in Circle	No	4	619 Drain Lite	Notrax	**53AD67**	—	—
Z-Web										
3 ft x 10 ft	12 mm	Vinyl	Triangle	No	0	Safety-Walk	3M	**423J07**	—	**423J08**
3 ft x 5 ft	12 mm	Vinyl	Triangle	No	0	Safety-Walk	3M	**423J05**	—	**423J06**

Pebble
38N630



Raised Bones
2RPK7

Raised Rings
25PK74

Oil & Grease-Resistant Drainage Mats

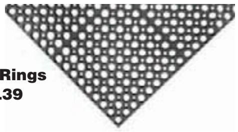
- 4 beveled edges

Nonlaminated foam construction makes these drainage mats more resistant to oil and grease than other materials.

Size (WxL)	Thickness	Surface Material	Drainage Hole	Mat Color	Reversible	Series	Item No.
Mat							
Pebble							
24 in x 3 ft	⅝ in	Nitrile Rubber Blend Foam	⅝ in Circle	Black	No	T17 Superfoam	**38N630**
3 ft x 4 ft	⅝ in	Nitrile Rubber Blend Foam	⅝ in Circle	Black	No	T17 Superfoam	**25PL43**
3 ft x 5 ft	⅝ in	Nitrile Rubber Blend Foam	⅝ in Circle	Black	No	T17 Superfoam	**38N631**
Raised Bones							
3 ft x 5 ft	⅝ in	Rubber	½ in Circle	Red	Yes	T18 Superflow	**2RPK7**
Raised Rings							
3 ft x 5 ft	½ in	Nitrile Rubber	1 in Circle	Red	No	562 Sanitop	**25PK74**
3 ft x 5 ft	½ in	Rubber	⅞ in Circle	Red	No	619 Drain Lite	**6LUL5**

Open Wave
36VJ58

Raised Nubs
8YKH5



Raised Rings
25PL39

Antimicrobial Drainage Mats

These mats inhibit the growth of mildew, mold, and bacteria that can cause odors and spread germs. They are often used in healthcare and food service settings.

Size (WxL)	Thickness	Surface Material	Drainage Hole	Reversible	Series	BLUE Item No.	GRAY Item No.	BLACK Item No.
Mat								
Open Wave								
3 ft x 5 ft	7/16 in	PVC	¼ in Triangle	No	539 Web Trax	**36VJ58**	**36VJ59**	—
3 ft x 40 ft	7/16 in	PVC	¼ in Triangle	No	539 Web Trax	**36VJ60**	**36VJ61**	—
4 ft x 40 ft	7/16 in	PVC	¼ in Triangle	No	539 Web Trax	**36VJ62**	**36VJ63**	—
Raised Nubs								
2 ft x 3 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**5FX66**
3 ft x 12 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**5FX68**
3 ft x 20 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**8RVX6**
3 ft x 4 ft	⅜ in	Rubber	½ in Circle	Yes	T23 Multi-Mat II	—	—	**25PL64**
3 ft x 5 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**5FX67**
3 ft x 8 ft	⅜ in	Rubber	½ in Circle	Yes	T23 Multi-Mat II	—	—	**25PL67**
4 ft x 12 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**8TU82**
4 ft x 6 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**8YKH5**
4 ft x 8 ft	⅜ in	Nitrile Rubber	⅜ in x 3 ¼ in Slot	No	755 Niru Versa Runner	—	—	**8TU81**
Raised Rings								
2 ft x 3 ft	⅞ in	Nitrile Rubber	1 in Circle	No	T13 Tek-Tough	—	—	**25PL35**
39 in x 29 in	⅞ in	Nitrile Rubber	⅞ in Circle	No	T12 San-Eze	—	—	**2RPK1**
3 ft x 5 ft	⅞ in	Nitrile Rubber	1 in Circle	No	T13 Tek-Tough	—	—	**25PL39**

Food Industry Drainage Mat

- Raised rings surface

Mat meets NSF/ANSI standards or is USDA certified for use in food-processing areas, such as kitchens and food production lines. Resists oil, grease, and fungal and bacterial growth.

Size (WxL)	Thickness	Surface Material	Drainage Hole	Mat Color	Reversible	Series	Item No.
39 in x 58 in	⅞ in	Nitrile Rubber	⅞ in Circle	Red	No	T11 San-Eze II	**2RPJ9**

Diamond Grid Antifatigue Kit 55WF55

Diamond Grid with Grit Antifatigue Tile 33VL82

Smooth Antifatigue Tile 48ZU31

Diamond Grid Drainage Tile 33VL84

Diamond Grid Male Edging with Corner 33VM03

Diamond Grid Female Edging 33VL86

Safe-Flex Interlocking Mat System

- 1 in thick
- Vinyl material
- Drainage mat tiles have diamond shaped holes
- Welding safe and ISO Class 8
- 55WF62, 55WF63, 55PK54, and 55PK58 are also antimicrobial

Interlocking mats have two male and two female sides to connect tiles to fit the space. Standardized connections allow different tile types (antifatigue and drainage) to be connected in the same configuration. The bottom of the tile is raised to allow cords to run under the tile.

Component Type	Surface	Size (WxL)	BLACK WITH YELLOW BORDER Item No.	Pkg. Qty.
Kits				
Antifatigue Mat Kit	Diamond Grid	3 ft x 3 ft	55WF55	1
	Diamond Grid	3 ft x 5 ft	55WF56	1
	Diamond Grid	3 ft x 8 ft	55WF57	1
Drainage Mat Kit	Diamond Grid	3 ½ ft x 5 ft	55WF60	1
	Diamond Grid	3 ft x 5 ft	55WF62	1
	Diamond Grid	3 ft x 8 ft	55WF63	1

Component Type	Surface	Size (WxL)	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
Tiles						
Antifatigue Mat Tile	Diamond Grid	18 in x 18 in	33VL83	10	60FE97	10
	Diamond Grid with Grit	18 in x 18 in	33VL82	10	—	—
	Smooth	18 in x 18 in	48ZU31	10	—	—
Drainage Mat Tile	Diamond Grid	18 in x 18 in	33VL84	10	—	—
	Diamond Grid	18 in x 18 in	55PK54	10	—	—
	Grit	18 in x 18 in	33VL85	10	—	—
Edging & Corners						
Edging (Female)	Diamond Grid	4 in x 18 in	33VL99	10	33VL86	10
Edging (Male)	Diamond Grid	4 in x 18 in	33VM01	10	33VL87	10
Edging with Corner (Female)	Diamond Grid	4 in x 22 in	33VM02	2	33VL88	2
Edging with Corner (Male)	Diamond Grid	4 in x 22 in	33VM03	2	33VL89	2
Edging (Female)	Diamond Grid with Grit	4 in x 18 in	33VL90	10	33VL94	10
Edging (Male)	Diamond Grid with Grit	4 in x 18 in	33VL91	10	33VL95	10
Edging with Corner (Female)	Diamond Grid with Grit	4 in x 22 in	33VL92	2	33VL96	2
Edging with Corner (Male)	Diamond Grid with Grit	4 in x 22 in	33VL93	2	33VL97	2

Square Grid Antifatigue Tile 793G97

Cleats Drainage Tile 43UN74

Grit Drainage Tile 43UN93

Smooth Anifatigue Tile 45YU19

Ribbed Inside Corner 43UN92

Ribbed Outside Corner 2RPR6

WEARWELL

ErgoDeck Interlocking Mat System

- ⅞ in thick
- Drainage mat tiles have square shaped holes
- 793G95, 793G97, 793G98, and 793GA1 are ISO Class 9

Standardized connections allow all styles of ErgoDeck tiles (antifatigue and drainage) to be connected in the same configuration. The locking system ensures tiles remain secure on uneven surfaces and allows mats to be rolled for cleaning. All mats can be rolled without disconnecting and can be cut to size in 3" increments. Drainage mats have holes to move liquids and small debris off the surface of the mat. Single mats can be replaced as necessary when damaged. Beveled edging works with all ErgoDeck mats and can be added as needed.

Component	Surface	Material	Size (WxL)	BLACK Item No.	BLACK Pkg. Qty.	GRAY Item No.	GRAY Pkg. Qty.
Tiles							
Antifatigue Mat Tile	Square Grid	Vinyl	18 in x 18 in	793G97	10	2UYC2	10
	Square Grid	Vinyl over Nitrile Foam	18 in x 18 in	328KA8	10	328KA9	10
	Diamond Plate		18 in x 18 in	738G57	10	328KC4	10
	Smooth		18 in x 18 in	328KC8	10	328KC9	10
	Diamond Plate	Vinyl	18 in x 18 in	793GA1	10	—	—
	Smooth		18 in x 18 in	793G98	10	45YU19	10
	Square Grid with Cleats		18 in x 18 in	29XP22	10	793G95	10
Drainage Mat Tile	Cleats		18 in x 18 in	43UN74	1	—	—
	Grit		18 in x 18 in	2RPR8	10	—	—
	Grit		18 in x 18 in	43UN93	1	—	—
	Smooth		18 in x 18 in	43UN86	1	—	—
	Smooth		18 in x 18 in	12H392	10	—	—

Component	Surface	Material	Size (WxL)	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
Edging & Corners							
Inside Corner	Ribbed	Vinyl	9 in x 9 in	43UN92	1	2RPR5	1
Outside Corner	Ribbed		15 in x 15 in	38ZC15	4	2RPR6	4
Edging (Female)	Ribbed		18 in x 18 in	38ZC17	10	2RPR7	10
	Ribbed		6 in x 18 in	43UN91	1	38ZC18	1
Inside Corner	Grit		9 in x 9 in	43UP03	1	—	—
Outside Corner	Grit		15 in x 15 in	43UN94	1	—	—
Edging (Female)	Grit		6 in x 18 in	43UN98	1	—	—

WEARWELL

F.I.T. Interlocking Mat System

- ⅝ in thick

The F.I.T (Functional Interlocking Tiles) antifatigue and drainage mat system has square tiles that lock together to customize coverage over large or irregularly shaped areas. The locking system prevents tiles from separating over uneven floors and when moved or rolled up for cleaning. Standardized connections allow different tile types (antifatigue and drainage) to be connected in the same configuration. Beveled edging can be added as needed. Full tiles can be cut and reconnected in 3" intervals. Single tiles are replaceable.

Grit Drainage Mat Kit 168X02

Smooth Drainage Mat Kit 48Z448

Grit Antifatigue Mat Tile 3LDA2

Smooth Drainage Mat Tile 4CKN9

Smooth Edging 43UN62

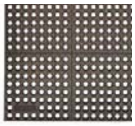
Smooth Edging with Corner 4CKP3

Component	Surface	Material	Size (WxL)	BLACK WITH YELLOW BORDER Item No.	Pkg. Qty.
Kits					
Drainage Mat Kit, Octagon Shaped Holes	Grit	Vinyl	27 in x 54 in	168X02	1
	Grit	Vinyl	27 in x 5 ½ ft	168X03	1
	Grit	Vinyl	39 in x 5 ½ ft	168X04	1
Drainage Mat Kit, Circle Shaped Holes	Smooth	Vinyl	27 in x 30 in	48Z448	1
	Smooth	Vinyl	27 in x 42 in	48Z449	1
	Smooth	Vinyl	27 in x 4 ½ ft	48Z450	1
	Smooth	Vinyl	27 in x 5 ½ ft	48Z451	1
	Smooth	Vinyl	27 in x 7 ½ ft	48Z452	1
	Smooth	Vinyl	39 in x 5 ½ ft	48Z453	1

Component	Surface	Material	Size (WxL)	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
Tiles							
Antifatigue Mat Tile	Grit	Nitrile Rubber	3 ft x 3 ft	3LDA2	1	—	—
	Grit	Nitrile Rubber	3 ft x 3 ft	328JZ0	1	—	—
	Grit	Rubber	3 ft x 3 ft	3VGK3	1	—	—
	Grit	Vinyl	1 ft x 1 ft	43UN66	1	—	—
	Smooth	Vinyl	1 ft x 1 ft	4CKP1	20	—	—
	Smooth	Vinyl	1 ft x 1 ft	38ZC29	1	—	—
Drainage Mat Tile, Circle Shaped Holes	Grit	Nitrile Rubber	3 ft x 3 ft	328JZ1	1	—	—
Drainage Mat Tile, Octagon Shaped Holes	Smooth	Vinyl	12 in x 12 in	4CKN9	20	—	—
	Smooth	Vinyl	12 in x 12 in	38ZC26	1	—	—
Edging & Corners							
Edging	Smooth	Vinyl	3 in x 12 in	43UN63	20	4CKP2	20
	Smooth	Vinyl	3 in x 12 in	43UN62	1	38ZC27	1
Edging with Corner	Smooth	Vinyl	3 in x 15 in	43UN64	1	4CKP3	4
	Smooth	Vinyl	3 in x 15 in	43UN65	4	38ZC28	1

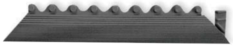
Bubble Antifatigue Tile 6MRU5

Pebble Antifatigue Tile 3LY65



Grit Drainage Mat Tile 2VJ47

Ribbed Female Edging 3UEP7



Ribbed Male Edging 3LY67

Cushion-Ease Interlocking Mat System

- ¾ in thick

Interlocking mats have male/female edges so tiles are easier to match. Mat types can be cut to create custom configurations of solid surface and drainage mats. Nibs on the back increase flexibility to improve anti-fatigue properties over flat bottom mats. Beveled edging works with all mat styles in the same series.

Component	Surface	Material	Size (WxL)	BLACK Item No.	YELLOW Item No.
Tiles					
Antifatigue Mat Tile	Bubble	Rubber	3 ft x 3 ft	**6MRU5**	—
	Pebble	Rubber	3 ft x 3 ft	**3LY65**	—
Drainage Mat	Grit	Nitrile Rubber	3 ft x 3 ft	**2VJ47**	—
Tile, Circle	Pebble	Rubber	3 ft x 3 ft	**3LY63**	—
Shaped Holes	Pebble	Rubber	3 ft x 5 ft	**3LY64**	—
Edging					
Edging (Female)	Ribbed	Nitrile Rubber	2 in x 36 in	**3LY66**	**3UEP7**
	Ribbed	Nitrile Rubber	2 in x 5 ft	**3LY68**	**3UER2**
Edging (Male)	Ribbed	Nitrile Rubber	2 in x 36 in	**3LY67**	**3UEP5**
	Ribbed	Nitrile Rubber	2 in x 5 ft	**3LY69**	**3UEP9**

Antifatigue Mat Tile 38N629

Drainage Mat Tile 38N612

Female Edging 38N615

Male Edging 38N616

Inside Corner 38N618

Diamond Flex-Lok Interlocking Mat System

- 1 in thick
- Diamond plate surface
- Vinyl material

These interlocking mats have a diamond pattern surface to provide traction and help prevent slips and falls. Post-in-hole attachments keep tiles secure. Standardized connections allow different tile types (antifatigue and drainage) to be connected in the same configuration.

Component	Size (WxL)	BLACK Item No.	BLACK Pkg. Qty.	YELLOW Item No.	YELLOW Pkg. Qty.
Tiles					
Antifatigue Mat Tile	12 in x 12 in	**38N629**	12	—	—
Drainage Mat Tile, Circle Shaped Holes	12 in x 12 in	**38N612**	12	—	—
Edging & Corners					
Edging (Female)	6 in x 12 in	—	—	**38N615**	6
Edging (Male)	6 in x 12 in	**38N614**	6	**38N616**	6
Inside Corner	6 in x 6 in	**38N617**	4	**38N618**	4

Mat End Tile 5W779

Mat Center Tile 5W778

Diamond Top Interlock Interlocking Mat System

- ½ in thick
- Diamond plate surface
- Black rubber material

Interlocking mat tiles create linear runs in front of machinery or on walkways. Sometimes called runners, end pieces have one interlocking edge that connects to a center piece. Center pieces have two interlocking connections that fasten to the end pieces to create the full length. End tiles have integrated beveled edges. Pieces cannot be cut to size.

Component	Edge Gender	Edge Style	Size (WxL)	Item No.
Antifatigue Mat End Tile	Male/Female Single Side	Beveled	31 in x 28 in	**5W779**
Antifatigue Mat Center Tile	Male/Female Opposite Sides	Straight	31 in x 28 in	**5W778**
Antifatigue Mat End Tile	Male/Female Single Side	Beveled	31 in x 36 in	**3UM39**
Antifatigue Mat Center Tile	Male/Female Opposite Sides	Straight	31 in x 36 in	**3UM40**

Cushion Connect Interlocking Mat System

- 1 in thick
- Mat tile has circle shaped holes

Drainage mat has integrated connectors that snap together to create a custom configuration. Large drainage holes have raised edges to quickly drain liquids and provide a slip-resistant surface. Nubs on the back flex to alleviate strain when standing for long periods of time. Beveled edging can be added as needed.

Component	Surface	Material	Size (WxL)	Mat Color	Item No.
Drainage Mat Tile	Smooth	Rubber	3 ft x 3 ft	Black	**52ZZ12**

Nonconductive Diamond Plate 3BY56

Nonconductive Corrugated 5T434

Nonconductive Smooth, Blue J2033

Antistatic Diamond Plate 5MDN2

Antistatic Pebble 9GD93

Antistatic Raised Nonslip Surface 8V572

Antistatic Textured Drainage Mat 3LMD2

Conductive Dome 33VM05

ESD Mats

Nonconductive (switchboard) mats protect workers from electric shock. **Antistatic and conductive mats** dissipate static electricity from individuals when standing on them; conductive mats accomplish this quicker. These mats protect and shield sensitive equipment from damage. The attached grounding cord on 5MDN2 to 5MDN4 provides extra protection. **Drainage mats** are reversible for longer life.

Description	▶CHOOSE: Color	W	L	Thickness	Brand	Item No.
Nonconductive						
Diamond Plate						
Switchboard Mat	Black with Yellow Border	3 ft	5 ft	¼ in	Notrax	**6RA10**
Switchboard Runner	Black with Yellow Border	3 ft	12 ft	¼ in	Notrax	**3BY56**
Switchboard Runner	Black with Yellow Border	3 ft	75 ft	¼ in	Notrax	**3BY57**
Corrugated						
Switchboard Mat	Black	3 ft	5 ft	¼ in	Notrax	**6PY99**
Switchboard Runner	Black	3 ft	12 ft	¼ in	Notrax	**5T434**
Switchboard Runner	Black	3 ft	75 ft	¼ in	Notrax	**5T435**
Smooth						
Switchboard Runner	Black, Blue	3 ft	75 ft	⅛ in	Notrax	**J2033**

Description	▶CHOOSE: Color	W	L	Thickness	Brand	Item No.
Antistatic						
Diamond Plate						
Static Dissipative Mat	Black	24 in	3 ft	9⁄16 in	Notrax	**5MDN2**
Static Dissipative Mat	Black	3 ft	5 ft	9⁄16 in	Notrax	**5MDN3**
Static Dissipative Mat	Black	3 ft	12 ft	9⁄16 in	Notrax	**5MDN4**
Pebble						
Static Dissipative Mat	Black, Gray	24 in	3 ft	⅜ in	Condor	**E9768**
Static Dissipative Mat	Black, Gray	3 ft	5 ft	⅜ in	Condor	**E9773**
Static Dissipative Mat	Black	3 ft	8 ft	⅜ in	Condor	**9GD93**
Raised Nonslip Surface						
Static Dissipative Mat	Black	4 ft	20 ft	⅜ in	Condor	**8V572**
Textured						
Drainage Mat, Circle Shaped Holes	Black	24 in	3 ft	⅝ in	Condor	**3LMD2**
Drainage Mat, Circle Shaped Holes	Black	3 ft	5 ft	⅝ in	Condor	**3LMD1**
Drainage Mat, Circle Shaped Holes	Black	4 ft	6 ft	⅝ in	Condor	**3LMD4**
Conductive, Pkg. of 10						
Dome						
Interlocking Antifatigue Mat	Black	18 in	18 in	1 in	Ergo Advantage	**33VM05**

Sani-Trax Mats

Entrance mats clean and sanitize footwear at entrances to sensitive areas such as food processing plants or laboratories. Thick rubber borders allow the mats to hold sanitizing or disinfecting solution and immerse the soles of shoes as foot traffic passes. Flexible fingers bend to immerse soles, while also providing automatic scrubbing action to dislodge contaminants from footwear. Mats resist most chemicals and variations in temperature. Suction cups on the underside of the mats keep them in place.

Description	Color	W	L	Series	Item No.
Footwear Sanitizing Mat	Black	24 in	32 in	Sani-Trax	52ZX89
Footwear Sanitizing Mat		3 ft 3 in	32 in	Sani-Trax	52ZX90
Disinfecting Mat	Black with Yellow Border	32 in	3 ft 3 in	Sani-Trax Plus	30CL75

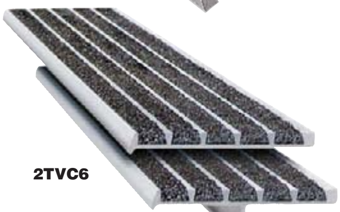
Stair Tread Covers and Nosings

For indoor or outdoor use.

Stair Tread Covers—Help provide traction and feature tapered back and beveled edges for additional safety. Predrilled holes offer easy installation on most step surfaces.

- Meet ASTM and ADA Standards, except 20X803 to 20X805

Stair Nosings—Black, extruded aluminum nosings are suitable for heavy foot traffic. Silver, cast-aluminum nosings are suitable for extreme foot traffic.



Description	D	Thickness	3-FT. LENGTH Item No.	3½-FT. LENGTH Item No.	4-FT. LENGTH Item No.	5-FT. LENGTH Item No.
Stair Tread Covers—Install with Adhesive						
Black/Yellow	11 in	5/32 in	20X803	—	20X804	20X805
Stair Tread Covers—Install with Adhesive and Fasteners						
Black	9 in	9/32 in	1AJZ5	2TUZ3	1AJZ6	2TUZ5
Black	11 in	9/32 in	1AJZ7	2TUZ6	1AJZ8	2TUZ8
Black/Yellow	9 in	9/32 in	2TUZ9	2TVA1	2TVA2	2TVA4
Black/Yellow	11 in	9/32 in	2TVA5	2TVA6	2TVA7	2TVA9
Gray	9 in	9/32 in	20X775	—	20X776	20X777
Gray	11 in	9/32 in	20X778	—	20X779	20X780
Stair Nosings—Install with Fasteners						
Black Extruded Aluminum	3 in	1/4 in	2TVD3	—	2TVD4	2TVD5
Gray Cast Aluminum	3 in	5/16 in	2TVD6	—	2TVD7	2TVD8
Stair Nosings—Set in Concrete						
Black Extruded Aluminum	3 in	1/4 in	2TVC6	—	2TVC7	2TVC8
Black Extruded Aluminum	4 in	1/4 in	2TVC9	—	2TVD1	2TVD2

Disposable Tacky Mats and Mat Bases

Remove dust, dirt, and bacteria from shoes, casters, and wheels. Adhesive backing prevents shifting and allows mats to be removed without leaving residue. Each mat contains 30 polyethylene film sheets that are numbered to help identify remaining quantity. Pkg. of 4. Can be used with optional bases or directly on smooth, clean floors.

▶CHOOSE: Color	W	Brand	3 ft Item No.	3 ft 9 in Item No.	30 in Item No.	5 ft Item No.
Disposable Tacky Mats						
Blue, Clear, Gray, White, Yellow	18 in	Condor	D3947	D3948	—	—
	24 in	Condor	D3951	D3952	D3949	—
	26 in	Condor	—	D3953	—	—
	3 ft	Condor	D3954	D3955	—	D3956
White, Blue	18 in	—	D5736	D5737	—	—
	24 in	—	D5738	D5739	—	—
	3 ft	—	—	D5741	—	—
Blue, White	3 ft	—	—	—	—	D5742

W	L	Brand	WHITE Item No.	BLUE Item No.
Static-Dissipative Disposable Tacky Mats				
18 in	3 ft	Condor	31AN11	31AN12
18 in	3 ft 9 in	Condor	31AN13	31AN14
24 in	3 ft	Condor	31AN15	31AN16
24 in	3 ft 9 in	Condor	31AN17	31AN18
3 ft	3 ft 9 in	Condor	31AN19	31AN20
3 ft	5 ft	Condor	31AN21	31AN22

▶CHOOSE: Color	W	L	Brand	Item No.
Mat Bases				
Blue, Gray, White	20 in	3 ft 2 in	Condor	D3957
	20 in	3 ft 11 in	Condor	D3958
	26 in	32 in	Condor	D3959
	26 in	3 ft 2 in	Condor	D3961
	26 in	3 ft 11 in	Condor	D3962
	28 in	3 ft 11 in	Condor	D3963
	3 ft 2 in	3 ft 2 in	Condor	D3964
	3 ft 2 in	3 ft 11 in	Condor	D3965
	3 ft 2 in	5 ft 2 in	Condor	D3966

Stair Nosings, Rung Covers, and Decks

Maintenance-free, easy-to-install products are engineered for industrial environments, offering maximum antislip properties and long service life. They feature steel construction with silicon carbide aggregate. Safety yellow color for visibility.

Stair Nosings—Grit-coated nosings reprofile the leading edge of stairs, increase the shoe contact area, and guard against slip hazards from weather or fluid spills.

Ladder Rung Covers—Epoxy-finish, grit-coated covers help reduce slipping risk by increasing friction and providing a larger surface for foot contact.

Metal Decks—Grit-coated deck plates provide traction and slip protection on metal grates or smooth concrete floors.

W	D	Thickness	Item No.
Stair Nosings			
17 11/16 in	3 1/8 in	3/64 in	34JG66
23 5/8 in	3 1/8 in	3/64 in	34JG67
29 1/2 in	3 1/8 in	3/64 in	34JG68
35 7/16 in	3 1/8 in	3/64 in	34JG69
17 11/16 in	5 1/8 in	3/64 in	34JG70
23 5/8 in	5 1/8 in	3/64 in	34JG71
29 1/2 in	5 1/8 in	3/64 in	34JG72
17 11/16 in	7 in	3/64 in	34JG74
23 5/8 in	7 in	3/64 in	34JG75
29 1/2 in	7 in	3/64 in	34JG76
35 7/16 in	7 in	3/64 in	34JG73 *
35 7/16 in	7 in	3/64 in	34JG77 †
17 11/16 in	8 5/8 in	3/64 in	34JG78
23 5/8 in	8 5/8 in	3/64 in	34JG79
29 1/2 in	8 5/8 in	3/64 in	34JG80
35 7/16 in	8 5/8 in	3/64 in	34JG81
47 1/4 in	8 5/8 in	3/64 in	34JG82

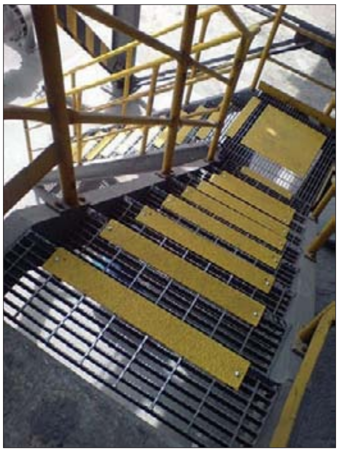
*** Ship Wt. is 4.35 lb. † Ship Wt. 5.79 lb.***

Overall L	Overall W	Item No.
Square Ladder Rung Covers		
11 13/16 in	51/64 in	34JG83
11 13/16 in	1 in	34JG84

Overall L	Overall Dia.	Item No.
Round Ladder Rung Covers		
7 7/8 in	51/64 in	34JG85
11 13/16 in	51/64 in	34JG86
17 11/16 in	51/64 in	34JG87
11 13/16 in	1 in	34JG88
17 11/16 in	1 in	34JG89

L	W	Item No.
Industrial Grade Metal Decks		
17 5/8 in	7 57/64 in	34JG91
23 5/8 in	7 57/64 in	34JG92
29 1/2 in	7 57/64 in	34JG93
35 7/16 in	7 57/64 in	34JG94
47 1/4 in	7 57/64 in	34JG95

Description	Item No.
Installation Fasteners	
Concrete Anchor Screw	34JG98
Saddle Assembly	34JG96
Adhesive Sealant, 10.1 oz Size	34JG99
TEK Screw, Self Drilling, #12 Thread Size	34JG97



Scan. Order. Done.
Details on page A1.

Anti-Slip Tape and Treads Definitions

Heavy—Has a very coarse (8-49 Grit) mineral-coated abrasive backing that is designed to handle heavy foot and equipment traffic. This durable, high-friction tape is used in muddy, greasy, and oily conditions such as on construction and farm equipment.

Medium—Tape offers a coarse (50-60 Grit) mineral-coated abrasive backing for general purpose use in medium traffic areas. This tape is recommended for flat surfaces, steps, and ramps where the traffic is less rigorous.

Light—Includes a fine (61-80 Grit) mineral-coated abrasive backing for use in light traffic areas. This tape is recommended for flat surfaces and ramps, such as entrances and exits, where some degree of friction is needed.

Wet & Barefoot—Tape has a non-abrasive (No Grit) textured surface designed for barefoot traffic in wet environments. It provides extra protection from slips and falls in areas where footwear is not worn such as around swimming pools, in showers, locker rooms, and on boat surfaces.

Anti-Slip Tape

These continuous rolls of anti-slip tape prevent slips, trips, and falls, and allow for customization in cutting tape lengths to fit the surface area needed. The level of traffic determines the tape durability and grit level needed on the tape's abrasive backing. All tape is for use in both indoor and outdoor applications, except 12E867 is for indoor use only.

Heavy, Solid 1AJF7

Heavy, Striped 452D83

Heavy, Message 452D67

Medium, Solid 12E792

Light, Solid 12E850

Wet & Barefoot, Solid 12E867

Imperial Tape WxL	Tape Thickness	Grit Size	Tape Adhesive Material	Performance Temp. Range	Specialty Environment Applications	Specifications Met	Brand	Item No.
Heavy Traffic, Very Coarse								
Solid, Black								
¾ in x 60 ft	42 mil	46	Acrylic	-40°F to 220°F	—	MIL	Wooster Flex-Tred	**12E910**
1 in x 60 ft	41 mil	46	Rubber	-20°F to 175°F	Oily and Muddy	ADA, NFSI, OSHA	Condor	**1AJF5**
1 in x 60 ft	44 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D87**
2 in x 60 ft	41 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D73**
2 in x 60 ft	41 mil	46	Rubber	-20°F to 175°F	Oily and Muddy	ADA, NFSI, OSHA	Condor	**1AJF6**
2 in x 30 ft	42 mil	46	Acrylic	-40°F to 220°F	—	MIL	Wooster Flex-Tred	**12E915**
4 in x 60 ft	41 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D74**
4 in x 60 ft	41 mil	46	Rubber	-20°F to 175°F	Oily and Muddy	ADA, NFSI, OSHA	Condor	**1AJF7**
4 in x 30 ft	42 mil	46	Acrylic	-40°F to 220°F	—	MIL	Wooster Flex-Tred	**12E916**
4 in x 30 ft	6.7 mil	24	Rubber	40°F to 175°F	Oily and Muddy	ADA, MIL, OSHA	3M Safety Walk	**2JCZ5**
6 in x 60 ft	41 mil	46	Rubber	-20°F to 175°F	Oily and Muddy	ADA, NFSI, OSHA	Condor	**12E852**
6 in x 60 ft	41 mil	46	Acrylic	-40°F to 220°F	—	MIL	Wooster Flex-Tred	**12E913**
6 in x 30 ft	6.7 mil	24	Rubber	40°F to 175°F	Oily and Muddy	ADA, MIL, OSHA	3M Safety Walk	**2JDA5**
12 in x 15 ft	—	46	Acrylic	-40°F to 220°F	—	ADA, ASTM, MIL	Wooster Flex-Tred	**2TUY8**
12 in x 60 ft	41 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D70**
12 in x 30 ft	53 mil	36	Acrylic	-40°F to 220°F	—	MIL	Wooster Flex-Tred	**12F877**
18 in x 15 ft	—	46	Acrylic	-40°F to 220°F	—	ADA, ASTM, MIL	Wooster Flex-Tred	**2TUY9**
24 in x 15 ft	—	46	Acrylic	-40°F to 220°F	—	ADA, ASTM, MIL	Wooster Flex-Tred	**2TUZ1**
24 in x 30 ft	42 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D72**
Striped, Black/Yellow								
3 in x 60 ft	36 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D83**
Message—Caution, Black/Yellow								
3 in x 60 ft	36 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D79**
Message—Caution Do Not Enter, Black/Yellow								
3 in x 60 ft	36 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D86**
Message—Caution Watch Your Step, Black/Yellow								
3 in x 60 ft	36 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D67**
3 in x 60 ft	36 mil	46	Acrylic	-40°F to 220°F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D82**
Medium Traffic, Coarse								
Solid, Black								
1 in x 60 ft	30 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV13**
2 in x 60 ft	30 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**5AN34**
2 in x 60 ft	36 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV21**
4 in x 60 ft	30 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6AD55**
4 in x 60 ft	36 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV22**
6 in x 60 ft	28 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**3AH44**
6 in x 60 ft	36 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV23**
12 in x 60 ft	30 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV14**
18 in x 60 ft	28 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**21YT73**
Solid, Clear								
4 in x 60 ft	33 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	—	**12E792**
Solid, Yellow								
1 in x 60 ft	29 mil	60	Rubber	40°F to 150°F	—	ANSI, NFSI, MIL	3M Safety Walk	**35XN36**
2 in x 60 ft	30 mil	60	Rubber	-40°F to 150°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV15**
2 in x 60 ft	33 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	—	**448K75**
2 in x 60 ft	36 mil	60	Rubber	40°F to 175°F	—	ANSI, NFSI, MIL	3M Safety Walk	**21YT79**
4 in x 60 ft	30 mil	60	Rubber	-40°F to 150°F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV16**
4 in x 60 ft	36 mil	60	Rubber	40°F to 175°F	—	ADA, MIL, NFSI, OSHA	3M Safety Walk	**35XN38**
Striped, Black/Yellow								
1 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**3ZG31**
2 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**3ZG32**
3 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**3ZG33**
4 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**12E797**
6 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**12E813**
12 in x 60 ft	32 mil	60	Acrylic	-20°F to 150°F	Chemical	ADA, NFSI, OSHA	Condor	**12E838**
Light Traffic, Fine								
Solid, Black								
1 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**12E763**
3 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**12E782**
4 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**12E850**
6 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**6U953**
8 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**12E830**
12 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	—	**448K76**
24 in x 60 ft	28 mil	80	Rubber	-20°F to 175°F	Chemical	ADA, NFSI, OSHA	Condor	**12E842**
Wet and Barefoot Traffic, Non-Abrasive								
Solid, Black								
1 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**21YT69**
2 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**6BV25**
4 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**6BV26**
6 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**6BV27**
12 in x 60 ft	29 mil	Proprietary	Acrylic	-20°F to 220°F	Mop Friendly	ADA, NFSI, OSHA	—	**12E869**
Solid, Gray								
1 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**21YT67**
2 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**6BV30**
4 in x 60 ft	45 mil	Proprietary	Rubber	40°F to 175°F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**6BV29**
6 in x 60 ft	29 mil	Proprietary	Acrylic	-20°F to 220°F	Mop Friendly	ADA, NFSI, OSHA	—	**12E867**

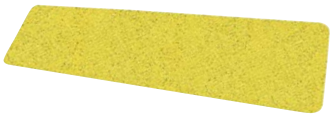
Find more information on Anti-Slip Tape and Treads on page 1878.

Heavy, Solid 53XX14

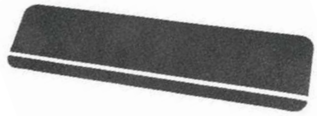
Heavy, Striped 1AJZ1

Medium, Solid 5AN41

Medium, Solid 12F876



Light, Striped 12E817



Anti-Slip Treads

Treads prevent slips, trips, and falls and allow for uniform placement on surfaces. The level of traffic determines the tape durability and grit level needed on the tread's abrasive backing. 4HY92 and 12E817 glow in the dark. All treads are for use in both indoor and outdoor applications, except 3EYK4 and 3EYK7 are for indoor use only.

Medium, Caution Message 448K62

Medium, Watch Your Step Message 12E826

Wet & Barefoot, Solid 448K72

Wet & Barefoot, Solid 3EYK7

Wet & Barefoot, Solid 6BT82

Imperial Tape WxL	Tape Thickness	Grit Size	Tape Adhesive Material	Performance Temp. Range	Specialty Environment Applications	Specifications Met	Brand	Item No.	Pkg. Qty.
Heavy Traffic, Very Coarse									
Solid, Black									
3 in x 24 in	42 mil	46	Acrylic	-40 °F to 220 °F	—	MIL	Wooster Flex-Tred	**12E940**	50
3 in x 24 in	46.9 mil	20 to 40	Rubber	-40 °F to 220 °F	—	ADA, OSHA	Sure-Foot Master Stop	**31AP77**	12
3 in x 24 in	109.4 mil	10 to 20	Rubber	-40 °F to 220 °F	—	ADA, OSHA	Sure-Foot Master Stop	**31AP62**	24
5 ½ in x 5 ½ in	37 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D69**	50
6 in x 24 in	6.7 mil	24	Rubber	40 °F to 175 °F	Oily and Muddy	ADA, MIL, OSHA	3M Safety Walk	**2JDA9**	25
6 in x 24 in	41 mil	46	Rubber	-20 °F to 175 °F	Oily and Muddy	ADA, NFSI, OSHA	—	**12E854**	25
6 in x 24 in	41 mil	46	Rubber	-20 °F to 175 °F	Oily and Muddy	ADA, NFSI, OSHA	—	**12E853**	50
6 in x 24 in	41 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D76**	10
6 in x 24 in	41 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D75**	50
6 in x 24 in	52 mil	46	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	—	**12E827**	10
6 in x 24 in	54 mil	20	Acrylic	-10 °F to 210 °F	—	MIL	Military Grade Flextred Flex-Tred	**53XX14**	50
6 in x 24 in	46.9 mil	10 to 20	Rubber	-40 °F to 220 °F	—	ADA, OSHA	Sure-Foot Master Stop	**31AP66**	24
12 in x 48 in	34 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D81**	1
Solid, Clear									
6 in x 24 in	44 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D88**	10
Solid, Gray									
3 in x 24 in	38 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D68**	50
Solid, White									
¾ in x 12 in	37 mil	46	Acrylic	-40 °F to 220 °F	—	ADA, NFPA, OSHA	Wooster Flex-Tred	**452D77**	400
Striped, Black/Yellow									
6 in x 24 in	—	46	Acrylic	-40 °F to 220 °F	—	ADA, ASTM, MIL	Wooster Flex-Tred	**1AJZ1**	10
Medium Traffic, Coarse									
Solid, Black									
¾ in x 24 in	28 mil	60	Rubber	40 °F to 175 °F	—	ANSI, NFSI, MIL	3M Safety Walk	**2JFK6**	50
¾ in x 24 in	28 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA61**	50
5 ½ in x 5 ½ in	28 mil	60	Rubber	40 °F to 175 °F	—	ANSI, NFSI, MIL	3M Safety Walk	**2JCZ8**	50
5 ½ in x 5 ½ in	28 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA62**	50
5 ½ in x 5 ½ in	36 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA79**	50
6 in x 24 in	28 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA63**	50
6 in x 24 in	30 mil	60	Rubber	40 °F to 175 °F	—	ANSI, NFSI, MIL	3M Safety Walk	**5AN41**	50
6 in x 24 in	36 mil	60	Rubber	40 °F to 175 °F	—	ANSI, NFSI, MIL	3M Safety Walk	**6BV20**	50
6 in x 24 in	36 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA80**	50
6 in x 24 in	42 mil	60	Acrylic	-20 °F to 220 °F	—	ADA, NFSI, OSHA	—	**3EYH1**	10
6 in x 24 in	80 mil	60	Rubber	40 °F to 175 °F	—	—	Ability One SKILCRAFT	**5MM74**	1
Solid, Clear									
6 in x 24 in	35 mil	60	Rubber	40 °F to 150 °F	—	ANSI, NFSI, MIL	3M Safety Walk	**54DF21**	50
Solid, White									
6 in x 24 in	28 mil	50	Acrylic	-20 °F to 150 °F	Mop Friendly	ADA, NFSI, OSHA	Condor	**4HY92**	10
Solid, Yellow									
6 in x 24 in	29 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA57**	50
6 in x 24 in	33 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	Condor	**12F876**	10
6 in x 24 in	33 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	—	**12E821**	50
6 in x 24 in	36 mil	60	Rubber	40 °F to 175 °F	—	NFSI	Ability One SKILCRAFT	**52CA74**	50
Striped, Black/Yellow									
6 in x 24 in	32 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	Condor	**12E824**	10
6 in x 24 in	36 mil	60	Rubber	40 °F to 150 °F	—	ANSI, NFSI	3M Safety Walk	**54DF11**	50
Message—Caution, Black/Yellow									
6 in x 24 in	32 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	—	**448K62**	10
6 in x 24 in	32 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	—	**12E825**	24
Message—Watch Your Step, Black/Yellow									
6 in x 24 in	32 mil	60	Acrylic	-20 °F to 150 °F	Chemical	ADA, NFSI, OSHA	Condor	**12E826**	24
Light Traffic, Fine									
Solid, Black									
6 in x 24 in	28 mil	80	Rubber	-20 °F to 175 °F	Chemical	ADA, NFSI, OSHA	Condor	**4T628**	50
2 in x 24 in	28 mil	80	Rubber	-20 °F to 200 °F	Chemical	ADA, NFSI, OSHA	—	**12E773**	50
Striped, Black									
6 in x 24 in	28 mil	80	Rubber	-20 °F to 175 °F	Chemical	ADA, NFSI, OSHA	—	**12E817**	24
Wet and Barefoot Traffic, Non-Abrasive									
Solid, Black									
6 in x 24 in	45 mil	Proprietary	Rubber	40 °F to 175 °F	Wet and Humid	ADA, ANSI, ASTM, NFSI, OSHA	3M Safety Walk	**2JDC5**	50
4 in x 16 51/64 in	12.7 mil	20	Rubber	Not Rated	—	—	—	**448K72**	1
Solid, White									
¾ in x 7 ½ in	27 mil	Proprietary	Acrylic	-20 °F to 220 °F	Wet and Humid	ADA, NFSI, OSHA	Condor	**3EYK7**	12
¾ in x 17 in	23 mil	Proprietary	Acrylic	50 °F to 175 °F	Wet and Humid	ADA, ASTM, OSHA	3M Safety Walk	**6BT82**	50
16 in x 33 19/32 in	27 mil	Proprietary	Acrylic	-20 °F to 220 °F	Wet and Humid	ADA, NFSI, OSHA	Condor	**3EYK4**	1

Scan. Order. Done.
Details on page A1.

Floor Marking Tape Type Definitions

Extra-Durable—Designed to withstand environments with heavy traffic and moving equipment. This durable, abrasion-resistant tape works well for long-term floor marking, and maintains its vivid color even after exposure to pallet-dragging and forklift movement.

General Purpose—Used to designate lanes in environments with light to medium traffic flow. It's also useful for marking areas on walls or to show protruding hazards.

Message—Includes printed messages on the tape to alert personnel of hazards, inform them of restricted areas, or remind them to wear protective gear. Messages are printed repeatedly along the length of the tape in high-contrasting bold lettering for easy visibility.

Glow-In-The-Dark—The material in this tape has photoluminescent properties that provide a bright, long-lasting afterglow in the event of a power outage and loss of light. This tape ensures that walkways, steps, door frames, and handrails are visible so personnel can safely exit a building.

Reflective—The material in this tape reflects light to provide visibility in low light areas. This tape is useful in designating walkways, highlighting surfaces in loading docks, and ensuring visibility of protruding objects.

Textured Grip—Features a raised pattern on its surface to provide extra traction to prevent slips and falls. It is useful in designating walkways, marking hazards, and indicating where items should be placed. This tape removes cleanly after it's applied and is useful in busy facilities with foot traffic.

Freezer—Used in walk-in freezers or cold storage facilities. It can be applied at freezing temperatures, eliminating the need to defrost the freezer prior to application. This tape is thicker than general purpose floor marking tape and removes cleanly after it's applied.

Extra-Protective Overlaminate—This clear tape is made of a durable overlaminate for applying on top of floor marking tape. It provides an extra layer of protection against wear and tear while ensuring that the messaging and bright coloring of marking tape stays visible.

Extra-Durable, Solid with Center Line K3727

General Purpose, Striped 15F796

Message, Fire Aisle-Keep Clear, 452D09

Glow-in-the-Dark, Solid 3TN49

Reflective, Solid K3880

Textured Grip, Solid 783G82

Freezer, Solid 783G93

Extra-Protective Overlaminate, Solid 12D618

Floor Marking Tape

These continuous rolls of floor marking tape are used in facilities such as warehouses and factories. The tape backing material is vinyl for all brands except Brady, which are Polyester. Tape adhesive material is rubber for 3M, Mighty Line and Brady products.

▶CHOOSE: Tape Color	Imperial Tape WxL	Tape Thickness	Min./Max. Perf. Temp.	Brand	Item No.
Extra-Durable					
Solid					
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	E3476
Black, Blue, Brown, Gray, Green, Orange, Red, White, Yellow	3 in x 100 ft	50 mil	50°F/180°F	Mighty Line	H7546
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	E3477
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	6 in x 100 ft	50 mil	50°F/180°F	Mighty Line	E7645
Solid with Center Line					
Black/Yellow, Blue/Orange, Blue/Yellow	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	K2071
Black/Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	3UAR3
Blue/Orange, Blue/Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	K3727
Striped					
Black/White, Black/Yellow, Red/White	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	K3721
General Purpose					
Solid					
Blue, Red, White, Yellow	1 in x 108 ft	5.2 mil	40°F/170°F	3M	D7623
Black, Blue, Green, Orange, Red, White, Yellow	2 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	K3879
Black, Blue, Green, Orange, Red, White, Yellow	2 in x 180 ft	5 mil	14°F/170°F	—	F0295
Black, Blue, Green, Orange, Red, White, Yellow	3 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	K3878
Black, Blue, Green, Orange, Red, White, Yellow	3 in x 180 ft	5 mil	14°F/170°F	—	E0419
Black, Blue, Green, Orange, Red, White, Yellow	4 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	K3877
Black, Blue, Green, Red, White, Yellow	4 in x 180 ft	5 mil	14°F/170°F	—	E7754
Black, Blue, Green, Red, White, Yellow	6 in x 180 ft	5 mil	14°F/170°F	—	E7755
Yellow	8 in x 180 ft	5 mil	14°F/170°F	—	9NMK8
White	12 in x 180 ft	5 mil	14°F/170°F	—	8A952
Blue, White	¾ in x 108 ft	5.2 mil	40°F/170°F	3M	J1038

▶CHOOSE: Tape Color	Imperial Tape WxL	Tape Thickness	Min./Max. Perf. Temp.	Brand	Item No.
Striped					
Black/Orange, Black/White, Green/White, Pink/Yellow, Red/White	1 in x 54 ft	5 mil	14°F/170°F	—	E0415
Black/Yellow	1 in x 108 ft	5.4 mil	40°F/170°F	3M Scotch	24A735
Black/Orange, Pink/Yellow	2 in x 54 ft	5 mil	14°F/170°F	—	E0416
Black/Yellow	2 in x 108 ft	5.4 mil	40°F/170°F	3M Scotch	15F796
Black/Orange, Pink/Yellow	3 in x 54 ft	5 mil	14°F/170°F	—	E0417
Black/Orange, Black/White, Green/White, Pink/Yellow	4 in x 54 ft	7 mil	14°F/170°F	—	E7742
Green/White, Pink/Yellow	6 in x 54 ft	7 mil	14°F/170°F	—	E7743
Black/Yellow, Red/White	12 in x 54 ft	7 mil	14°F/170°F	—	E7747
Black/Orange, Black/White, Black/Yellow, Blue/White, Green/White, Pink/Yellow, Red/White	2 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	G5686
Black/White, Black/Yellow, Blue/White, Pink/Yellow, Red/White	3 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	G5687
Black/White, Black/Yellow, Blue/White, Pink/Yellow, Red/White	4 in x 100 ft	8 mil	0°F/130°F	Brady ToughStripe	G5688
Message					
Arc Flash Boundary					
Red/White	3 in x 54 ft	6 mil	14°F/170°F	—	452D11
Fire Aisle-Keep Clear					
Red/White	3 in x 54 ft	6 mil	14°F/170°F	—	452D09
Forklift Traffic					
Black/Yellow	3 in x 54 ft	6 mil	14°F/170°F	—	452D08
Hearing Protection					
Black/Yellow	3 in x 54 ft	5.5 mil	14°F/170°F	Condor	3YTC8
Safety Glasses					
Black/Yellow	3 in x 54 ft	6 mil	14°F/170°F	—	452D06
Glow-in-the-Dark					
Solid					
White	1 in x 250 ft	18.5 mil	-40°F/140°F	Brady BradyGlo	2PB71
White	2 in x 15 ft	8 mil	-40°F/176°F	Brady BradyGlo	3TN49
White	3 in x 15 ft	8 mil	-40°F/176°F	Brady BradyGlo	3TN50
Solid with Center Line					
Red/Yellow	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	K3886
Red/Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	K3726
Reflective					
Solid					
Blue, Orange, Red, White, Yellow	2 in x 15 ft	5.5 mil	-70°F/160°F	—	K3880
Red, White, Yellow	3 in x 15 ft	5.5 mil	-70°F/160°F	—	K3881
White, Yellow	4 in x 15 ft	5.5 mil	-70°F/160°F	—	K3882
Blue, Green, Red, White, Yellow	6 in x 15 ft	5.5 mil	-70°F/160°F	—	K3885
Solid with Center Line					
Yellow/White	4 in x 75 ft	50 mil	50°F/180°F	Mighty Line	783G94
Textured Grip					
Solid					
Yellow	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G86
Yellow	3 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G84
Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G82
Striped					
Black/Yellow	2 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G87
Black/Yellow	3 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G85
Black/Yellow	4 in x 100 ft	50 mil	50°F/180°F	Mighty Line	783G83
Freezer					
Solid					
Yellow	3 in x 100 ft	50 mil	-20°F/180°F	Mighty Line	783G93
Extra-Protective Overlaminate					
Solid					
Clear	1 in x 50 ft	3 mil	0°F/129°F	Brady ToughStripe	12D618
Clear	2 in x 50 ft	3 mil	0°F/129°F	Brady ToughStripe	12D620
Clear	2 ¾ in x 100 ft	50 mil	Not Rated	Mighty Line	20PG44
Clear	3 in x 100 ft	3 mil	0°F/129°F	Brady ToughStripe	12D622
Clear	5 ¾ in x 100 ft	50 mil	Not Rated	Mighty Line	20PG46

54ZF79

8N204

54HH20

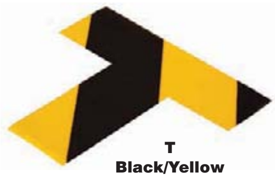
1MDL9

6W059

Floor Marking Tape Applicators

Max. Tape Roll Dia.	Min. Tape Core Dia.	Max. Tape Width	No. of Wheels	Brand	Item No.
3 in	3 in	4 in	1	Mighty Line	54ZF79
—	—	4 in	2	—	8N204
3 in	3 in	4 in	2	3M	54HH20
3 in	3 in	4 in	3	—	1MDL9
3 in	3 in	4 ½ in	3	—	6W059
3 in	3 in	6 in	3	Mighty Line	783G91

Blue
K3730



T
Black/Yellow
K3723

Cross
Black
G5702

Rectangle
w/Exit Message
6XU48

Arc
38CE86

Arrow
Yellow
K3732

Footprint
Gray
K3735

Circle
Blue
K3733

Square
38CF11

Octagon
783HU3

Pedestrian
783HU4

▶CHOOSE: Tape Color	Imperial Tape WxL	Tape Thickness	Tape Backing Material	Performance Temp. Range	Brand	Item No.	Pkg. Qty.
L-Shaped							
Solid							
Black, Blue, Green, Orange, Red, White, Yellow	2 in x 6 in	55 mil	Vinyl	Not Rated	Mighty Line	K3730	100
Black, Blue, Green, Red, White, Yellow	2 in x 5 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5696	20
Black, Blue, Green, Red, White, Yellow	3 in x 8 in	8 mil	Polyester	0 °F to 130 °F		G5697	20
Brown, Gray, Purple, White	3 in x 6 in	50 mil	Vinyl	Not Rated	Mighty Line	K3731	100
Black, Blue, Red, White, Yellow	4 in x 10 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5698	20
Striped							
Black/White, Black/Yellow	2 in x 6 in	55 mil	Vinyl	Not Rated	Mighty Line	K3729	100
T-Shaped							
Solid							
Black, Blue, Green, Red, White, Yellow	2 in x 6 in	55 mil	Vinyl	Not Rated	Mighty Line	K3722	100
Striped							
Black/White, Black/Yellow	2 in x 6 in	55 mil	Vinyl	Not Rated	Mighty Line	K3723	100
Cross-Shaped							
Solid							
Black, Blue, Green, Red, White, Yellow	2 in x 5 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5702	20
Yellow	3 in x 8 in	8 mil	Polyester	0 °F to 130 °F		12D548	20
Rectangle-Shaped							
Solid							
Orange	2 in x 3 ½ in	20 mil	Vinyl	-14 °F to 180 °F	INCOM	20LP78	50
Red	2 in x 6 in	0.58 mil	Vinyl	-50 °F to 180 °F		38CE82	25
Message—Exit							
Green/White	4 in x 4 in	9.4 mil	Polyester	-40 °F to 176 °F	Brady BradyGlo	6XU48	10
Arc-Shaped							
Solid							
Red	2 ½ in x 6 in	0.58 mil	Vinyl	-50 °F to 180 °F	INCOM	38CE86	25
Yellow	2 ½ in x 6 in	0.58 mil	Vinyl	-50 °F to 180 °F		38CE75	25
Arrow-Shaped							
Solid							
Blue, Green, Red, White	2 in x 5 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5692	100
Red, Yellow	2 in x 5 in	8 mil	Polyester	0 °F to 130 °F		G5691	52
Blue, Green, Yellow	3 in x 8 in	8 mil	Polyester	0 °F to 130 °F		G5693	100
Blue, Green, Red, White, Yellow	4 in x 10 in	8 mil	Polyester	0 °F to 130 °F		G5694	100
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	6 in x 10 in	50 mil	Vinyl	Not Rated	Mighty Line	K3732	50
Footprint-Shaped							
Solid							
Brown, Gray, Orange, Purple	3 ½ in x 9 ½ in	50 mil	Vinyl	Not Rated	Mighty Line	K3735	50
Solid							
Black, Blue, Green, Red, White, Yellow	3 ½ in x 10 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5695	10
Circle-Shaped							
Solid							
Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	2 ¹¹⁄₁₆ in	50 mil	Vinyl	Not Rated	Mighty Line	K3733	200
Blue, Red, Yellow	3 ½ in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	G5690	350
Brown, Gray, Orange, Purple	3 ½ in	50 mil	Vinyl	Not Rated	Mighty Line	K3734	100
Square-Shaped							
Solid							
Green	3 in x 3 in	0.58 mil	Vinyl	-50 °F to 180 °F	INCOM	38CF11	25
Red	3 in x 3 in	0.58 mil	Vinyl	-50 °F to 180 °F		38CE88	25
Yellow	3 in x 3 in	0.58 mil	Vinyl	-50 °F to 180 °F		38CE77	25
Message—X							
Black	4 in x 6 in	8 mil	Polyester	0 °F to 130 °F	Brady ToughStripe	32V652	20
Octagon-Shaped							
Solid							
Red	9 ½ in x 9 ½ in	50 mil	Vinyl	Not Rated	Mighty Line	783HU3	20
Pedestrian Shape-Shaped							
Solid							
Yellow	6 in x 10 in	50 mil	Vinyl	Not Rated	Mighty Line	783HU4	20

Floor Marking Shapes

Precut shapes of floor marking tape have a pull-away liner to assist with application and remove cleanly after use. Tape adhesive material is rubber for Mighty Line and Brady products. Colors are available to instill organization methods such as 5S for L-, T-, Cross-, Rectangular and Arc-shaped tape. 6XU48 glows in the dark.

L-shaped floor marking tape is used to designate corners for placing items. Smaller shapes can be used on workbenches or shelves, while larger shapes are used on warehouse and factory floors.

T-shaped tape is used to designate corners for item placement on floors, such as for pallet rows.

Cross-shaped tape is used to mark intersections or corners for item placement on facility floors, such as pallet rows.

Rectangle-shaped floor marking tape is precut and used to designate areas for placing items.

Arc-shaped tape is used to designate areas for placing items, or to mark hazards on facility floors.

Arrow-shaped tape is used to direct equipment or pedestrians and indicate the direction of traffic flow.

Footprint-shaped tape is used to guide pedestrian traffic toward designated areas or exits.

Circle-shaped tape is used to mark areas for equipment placement, or to designate a waiting location for personnel.

Square-shaped floor marking tape designates areas for item storage or for people to stand when waiting.

Octagon-shaped floor marking tape resembles a stop sign to alert pedestrian traffic to stop. A customized message can be written on the surface with a permanent marker.

Pedestrian-shaped floor marking tape indicates a place for people to stand while waiting, and to encourage social distancing.

Safety Sign Information

Signs prevent injuries by alerting staff to hazardous conditions and putting important information at the point of need. Compliance signs like OSHA and ANSI are available in a variety of materials.

Customize signs for your specific needs online at the Grainger Custom Product Center. Go to grainger.com/content/custom-product-center.

Photoluminescent—Pigments in the material absorb ambient light and glow in the dark.

Retroreflective Grade—Describes the levels of available reflectivity in Traffic Control Signs. Retroreflective material is made using tiny glass beads which reflect light directly back toward its source. Available in **Diamond Grade-(D), Engineering Grade-(EG), or High-Intensity Prismatic Grade-(HIP).**

COMPLIANCE

OSHA 1910.145 and ANSI Z535 require that safety signs be used to identify and define specific hazards that, without identification, could lead to property damage or accidental injury of workers and/or the public.

MATERIAL TYPES

Aluminum-(A)—Abrasion- and chemical-resistant. For indoor/outdoor use.

Fiberglass-(F)—Longest-lasting material. For outdoors or harsh environments.

Non-PVC Polymer-(NPVCP)—Flexible plastic does not contain PVC (polyvinyl chloride). For indoor use.

Polyethylene-(P)—Polyethylene terephthalate. This type of plastic has a clear protective coat; For temporary or light use.

Plastic-(PETG)—This plastic is more pliable than polyethylene and better suited to extreme temperatures. Clear protective coat; for indoor/outdoor use.

Magnetic Vinyl-(MV)—Flexible vinyl, magnet-backed signs adhere to metal surfaces and have a clear liquid laminate coating. For indoor/outdoor use.

Self-Adhesive Vinyl-(S)—Signs are high-gloss, durable, flexible vinyl for indoor/outdoor use.

Self-Adhesive Glow Vinyl-(GV)—High-gloss, durable, flexible vinyl for indoor/outdoor use. Photoluminescent material absorbs ambient light and glows in the dark.

Chemical, Gas and Hazardous Material Signs

Warn workers of nearby materials or conditions that could cause injuries. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Non-PVC Polymer	(NPVCP)
Polyethylene	(P)
Plastic	(PETG)
Self-Adhesive Vinyl	(S)

J9360
A, P, S (7 in x 10 in, 10 in x 14 in)

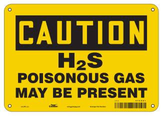
5AH27
S (3 ½ in x 5 in)

J8124
A, P (10 in x 7 in, 14 in x 10 in)
F (14 in x 10 in)
S (5 in x 3 ½ in, 7 in x 5 in, 10 in x 7 in, 14 in x 10 in)

J6946
A, F (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

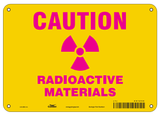
J8214
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8184
A, P, S (7 in x 10 in, 10 in x 14 in)



J8203
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8413
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)



J7006
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J6910
A, F, P, S (10 in x 14 in)

J6913
A, F, P (7 in x 10 in)
S (5 in x 7 in, 7 in x 10 in)

J6919
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6920
A, F, P (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in, 14 in x 20 in)

J6927
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6928
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6930
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8483
A, P, S (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)

J8353
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8155
A, P, S (7 in x 10 in, 10 in x 14 in)

J8583
A, P, S (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
F (20 in x 14 in)

J8590
A, P, S (7 in x 10 in, 10 in x 14 in)

J9305
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8592
A, P, S (7 in x 10 in, 10 in x 14 in)

J8597
A, P, S (7 in x 10 in, 10 in x 14 in)

J8166
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 7 in x 10 in, 10 in x 14 in)

K3084
A, NPVCP, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8546
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J9712
A, P, S (7 in x 10 in, 10 in x 14 in)

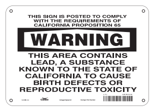
480Y76
PETG (8 in x 18 in)

480W95
PETG (8 in x 12 in)

J7036
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8395
A, P, S (7 in x 10 in, 10 in x 14 in)

K3083
A, NPVCP, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)



J8488
A, P, S (7 in x 10 in, 10 in x 14 in)

J8138
A, P, S (7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

Confined Space Signs

Deter unauthorized entry into confined spaces like access shafts, manholes, sewers, tunnels, tanks, and silos. Signs help prevent injuries from entrapment, engulfment, or hazardous atmospheric conditions. They are commonly posted where there's a danger of being trapped or engulfed by flame or water. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)

J8714
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J8712
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J8713
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J6914
A, F, P, S (10 in x 14 in)

J6915
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J8721
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 7 in x 10 in, 10 in x 14 in)

J6916
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J6917
A, P (10 in x 7 in, 14 in x 10 in)
F (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
S (7 in x 5 in, 10 in x 7 in, 14 in x 10 in)

J6918
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6941
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

Construction Safety Signs

Identify the boundaries of construction zones and communicate the hazards and entry restrictions for workers and visitors. These signs remind people of risks and communicate personal protective equipment (PPE) requirements. They are commonly placed by construction site entrances or areas that are restricted. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Non-PVC Polymer	(NPVCP)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)

K3082
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6964
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K3081
A, NPVCP, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8660
A, P, S (7 in x 10 in, 10 in x 14 in, 14 in x 20 in, 24 in x 36 in)
F (14 in x 20 in)

K3080
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K3079
A (10 in x 14 in)
NPVCP (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6926
A, P (10 in x 14 in, 24 in x 36 in, 7 in x 10 in)
F (10 in x 14 in, 7 in x 10 in)
S (10 in x 14 in, 24 in x 36 in, 5 in x 7 in, 7 in x 10 in)

J8679
A, P, S (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)

J6936
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

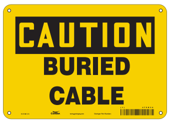
K3078
A (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in)

Electrical Hazard Signs

Alert people of nearby dangers that could cause electric shock, injuries, or even death. These informative signs mark high-voltage equipment, electrical panels and rooms, static-sensitive areas, and locations where grounding gear must be worn. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

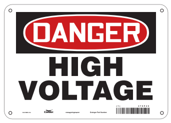
J6945
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)



J8809
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6924
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6925
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)



J6931
A, GV, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6932
A, GV, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6933
A, P (7 in x 10 in, 10 in x 14 in)
F (14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

3WZW4
S (3 ½ in x 5 in)

J2716
A, P, S (7 in x 10 in, 10 in x 14 in)

K3077
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

Condor

Industrial Vehicle Traffic Signs

Call attention to forklifts, trucks, and other moving vehicles and specify driving and loading procedures. These signs encourage drivers and pedestrians to take precautions against accidents. They may mount directly to a vehicle to call out hazards such as blind spots and wide turns or may be posted near high-traffic areas such as loading docks and shipping and receiving areas. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Plastic	(PETG)
Self-Adhesive Vinyl	(S)

J6962
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8614
A, P, S (7 in x 10 in, 10 in x 14 in)

J6972
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1511
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1451
A, P, S (5 in x 7 in)

J7000
A, F, P, S (7 in x 10 in, 10 in x 14 in)

K1780
A, P, S (7 in x 10 in, 10 in x 14 in, 14 in x 20 in, 18 in x 24 in)
F (10 in x 14 in, 14 in x 20 in)

K1778
A, P, S (7 in x 10 in, 10 in x 14 in)

480W64
PETG (8 in x 8 in)

K1536
A, P, S (7 in x 10 in, 10 in x 14 in)

Condor

Lockout Safety Signs

Lockout safety signs, also known as LOTO signs, remind workers to follow lockout and tagout procedures when servicing equipment. These signs help prevent injuries by reducing the possibility of an unexpected startup when servicing a machine. They are commonly posted near machinery lockout points and they are also used to identify locked-out equipment and mark safety centers where equipment is stored. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Plastic	(PETG)
Magnetic Vinyl	(MV)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

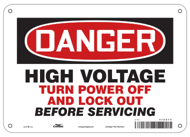
K0102
A, P, S (7 in x 10 in, 10 in x 14 in)

K0107
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in)
S (3 ½ in x 5 in, 7 in x 10 in, 10 in x 14 in)

K0127
MV, S (5 in x 3 ½ in, 7 in x 5 in)

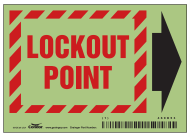
J8749
A, F, P, S (10 in x 7 in, 14 in x 10 in)

J8724
A, F, P, S (7 in x 10 in, 10 in x 14 in)



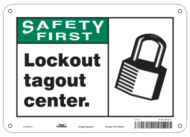
J8886
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7708
A, P, S (7 in x 10 in, 10 in x 14 in)



469K53
GV (3 ½ in x 5 in)

480Y40
PETG (6 in x 8 ½ in)



K0131
A, F, P, S (7 in x 10 in, 10 in x 14 in)

Condor

Machine Hazard Signs

Provide guidance for proper machine use and they also deter unauthorized machine use. They include reminders about wearing personal protective equipment while operating machinery and warnings about not operating machines without guards or during repairs. These signs and labels encourage employees to prevent machine-related injuries. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Magnetic Vinyl	(MV)
Self-Adhesive Vinyl	(S)

J9185
A, P, S (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)

J8984
A, MV, P, S (7 in x 10 in, 10 in x 14 in)

J6948
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

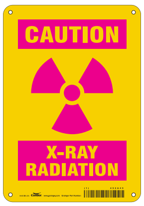
K1922
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6942
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J9038
A, P, S (7 in x 10 in, 10 in x 14 in)

J6944
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0420
A, P, S (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in)



K0939
A, P (10 in x 7 in, 14 in x 10 in)
S (2 ¼ in x 2 ¼ in, 10 in x 7 in, 14 in x 10 in)

J9055
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

No Smoking and Smoking Area Signs

Reinforce rules that prohibit smoking in certain areas and identify areas where workers are allowed to smoke in and around facilities. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

K1266
A, P (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
F (14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in, 14 in x 20 in)

J6937
A, F, GV (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6938
A, P (10 in x 7 in, 14 in x 10 in)
F (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
S (7 in x 5 in, 10 in x 7 in, 14 in x 10 in)

J6939
A, F, P (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in, 14 in x 20 in)

J6940
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8451
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7012
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
GV (7 in x 10 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7013
A, F, P (10 in x 14 in, 14 in x 20 in, 7 in x 10 in)
S (10 in x 14 in, 14 in x 20 in, 5 in x 7 in, 7 in x 10 in)

J7014
A, P (7 in x 5 in, 10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
F (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
S (5 in x 3 ½ in, 7 in x 5 in, 10 in x 7 in, 14 in x 10 in, 20 in x 14 in)

J7015
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7016
A, F, P (10 in x 14 in, 7 in x 10 in)
S (10 in x 14 in, 3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in)

J7017
A, P (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
F (10 in x 14 in, 14 in x 20 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in, 14 in x 20 in)

K1147
A, P, S (10 in x 7 in, 14 in x 10 in)

K1243
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1256
A, P, S (7 in x 10 in, 10 in x 14 in)

J7716
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1257
A, P, S (7 in x 10 in, 10 in x 14 in)

K1148
A, P, S (7 in x 10 in, 10 in x 14 in)

K1341
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J7032
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1263
A, P, S (7 in x 10 in, 10 in x 14 in)

Personal Protective Equipment Signs

Personal protective equipment (PPE) signs remind workers to wear personal protective gear before entering potentially dangerous areas. They also help prevent injuries and falls by marking the boundaries and entry points of hazardous areas. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

J6949
A, F, P (10 in x 7 in, 14 in x 10 in)
S (7 in x 5 in, 10 in x 7 in, 14 in x 10 in)

K0276
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0345
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 7 in x 10 in, 10 in x 14 in)

K0486
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0413
A, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0456
A, P, S (7 in x 10 in, 10 in x 14 in)

K0282
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6957
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0311
A, P, S (10 in x 7 in, 14 in x 10 in)
F (14 in x 10 in)

J6965
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0492
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0424
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0312
A, P, S (7 in x 10 in, 10 in x 14 in)

J6929
A, F (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0543
A, P, S (7 in x 10 in, 10 in x 14 in)

J7712
A, S (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)

K0621
A, GV (10 in x 7 in, 14 in x 10 in)
P, S (7 in x 5 in, 10 in x 7 in, 14 in x 10 in)

J6995
A (7 in x 10 in)

K0689
A, P, S (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)

NOTICE
SAFETY GLASSES REQUIRED BEYOND THIS POINT

J7003
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

NOTICE
SAFETY SHOES REQUIRED IN THIS AREA

K0667
A, P (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

Restricted Area and Authorized Personnel Signs

Mark restricted areas where only those with permission are allowed to enter. These signs help prevent trespassing and exposure to potential hazards. They are commonly posted near entries to mechanical rooms and control rooms as well as marking the boundaries of private property. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)

J7005
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1879
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1920
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6935
A, P (7 in x 10 in, 10 in x 14 in)
F (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6993
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6998
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7002
A, P (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
F (10 in x 7 in, 14 in x 10 in)
S (7 in x 5 in, 10 in x 7 in, 14 in x 10 in, 20 in x 14 in)

J7024
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7025
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7026
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

460L59
A (6 in x 7 ½ in)

J7957
A, P, S (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)

Safety Culture and Motivation Signs

Remind workers that safety should be a top priority in the workplace. These signs encourage people to follow proper procedures to help reduce the chance of injuries and avoid lost productivity. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)

J9885
A, P, S (7 in x 10 in, 10 in x 14 in)

K0178
A, P, S (7 in x 10 in, 10 in x 14 in)

J9969
A, P, S (7 in x 10 in, 10 in x 14 in)

K0196
A, P, S (7 in x 10 in, 10 in x 14 in)

475J95
S (7 in x 10 in)

K0134
A, P, S (7 in x 10 in, 10 in x 14 in)

J7028
A, F, P, S (7 in x 10 in, 10 in x 14 in)

K0174
A, P, S (7 in x 10 in, 10 in x 14 in)

J7029
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K0729
A, P, S (10 in x 7 in, 14 in x 10 in)

Slip, Trip and Fall Hazard Signs

Call attention to slippery, irregular, or uneven surfaces and obstacles that might cause people to slip, trip, or fall. They are commonly posted near maintenance pits, stairs, newly washed floors, food preparation and dishwashing areas, and icy walkways and parking lots. Not retroreflective.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)

K1375
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1396
A, P, S (7 in x 10 in, 10 in x 14 in)

K1561
A, P, S (10 in x 7 in, 14 in x 10 in)

J6969
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K1397
A, P, S (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)

K1400
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J6974
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J8678
A, P, S (7 in x 10 in, 10 in x 14 in)

J7869
P (7 in x 10 in, 10 in x 14 in)

K1416
A, P, S (7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

Fire Safety and Emergency Signs

Help people locate the nearest fire and emergency equipment. Signs enable rapid responses to emergencies by identifying equipment such as gas and water shutoff valves, telephones, fire extinguishers, alarms, and hoses. Glow vinyl signs help guide the way during power outages or in low-light conditions. Not retroreflective. For more glow vinyl options, visit Grainger.com.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Non-PVC Polymer	(NPVCP)
Polyethylene	(P)
Plastic	(PETG)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

480Y21
PETG (6 in x 8 ½ in)

480W40
PETG (8 in x 8 in)

460N42
A (12 in x 8 ¼ in)

465P63
S (7 in x 10 in)

3WZW1
S (3 ½ in x 5 in)

465P79
F (14 in x 20 in)

J9664
A, GV, P, S (7 in x 10 in, 10 in x 14 in)

J9665
A, F, GV, S (7 in x 10 in, 10 in x 14 in)
P (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)

J6981
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J9233
A, P, S (10 in x 14 in)

J8159
A, P, S (7 in x 10 in, 10 in x 14 in)

J9297
A, P, S (7 in x 10 in, 10 in x 14 in)

44VA37
P (7 in x 10 in)

480W26
PETG (8 in x 8 in)

480X84
PETG (8 in x 8 in)

44VA55
P (7 in x 10 in)

464H34
A (10 in x 14 in)

480Y09
PETG (6 in x 8 ½ in)

480Z15
PETG (6 in x 8 ½ in)

469T81
S (7 in x 10 in)

J7045
GV, P (7 in x 10 in, 10 in x 14 in)

J7052
A, P, S (7 in x 10 in, 10 in x 14 in)

J9268
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J7049
A, P (10 in x 7 in, 12 in x 9 in, 14 in x 10 in)
F (12 in x 9 in, 14 in x 10 in)
S (7 in x 5 in, 10 in x 7 in, 12 in x 9 in, 14 in x 10 in)

J7050
A, P (14 in x 5 in, 18 in x 4 in)
F (14 in x 3 ½ in, 24 in x 4 in)
S (14 in x 3 ½ in, 14 in x 5 in, 18 in x 4 in)

K2114
A (18 in x 4 in)
GV (12 in x 4 in, 14 in x 4 in, 14 in x 5 in, 18 in x 4 in, 24 in x 4 in)
P (12 in x 4 in, 14 in x 5 in, 18 in x 4 in)

480X53
PETG (8 in x 8 in)

480Z21
PETG (12 in x 14 in)

J9624
A, P, S (10 in x 7 in, 14 in x 10 in, 20 in x 14 in)
F (20 in x 14 in)
GV (10 in x 7 in, 14 in x 10 in)

J7051
A, P, S (10 in x 7 in, 14 in x 10 in)

J7054
A, P, S (14 in x 5 in, 24 in x 4 in)
F (24 in x 4 in)

J9329
A, GV, P, S (7 in x 10 in, 10 in x 14 in)

480Y33
PETG (6 in x 8 ½ in)

471U50
GV (7 in x 10 in)

471T25
P (14 in x 10 in)

J9315
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J9271
A, GV, P, S (10 in x 7 in, 14 in x 10 in)

44UZ21
P (10 in x 7 in)

J9406
A, P, S (7 in x 10 in, 10 in x 14 in)

455K47
NPVCP (7 in x 10 in)

463Z45
A (10 in x 14 in)

480Y20
PETG (18 in x 7 ½ in)

480Y83
PETG (6 in x 8 ½ in)

470N43
A (10 in x 14 in)

480Y86
PETG (8 in x 18 in)

K1737
A, GV, P, S (10 in x 7 in, 14 in x 10 in)

480Y91
PETG (6 in x 8 ½ in)

K1739
A, GV, P, S (10 in x 7 in, 14 in x 10 in)

J9288
A, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

For more information on safety sign compliance and material types, see page 1882.

Facility Signs

Communicate basic information about exits, restrooms, trash, recycling and workplace policies. **Conservation Signs** remind workers and visitors to throw away trash and recycle materials. **Perimeter Safety Signs** warn people of potential hazards such as automatic doors and gates, elevator shafts, unstable structures, quarantine areas, and demolition zones. **Wayfinding and Directional Signs** let people know the correct way to go in facilities. **Workplace Signs** identify workplace policies regarding policies and rules around gun control, cell phone restrictions, housekeeping guidelines, food and drink restrictions, and restroom identification. For more facility sign options, visit Grainger.com.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Plastic	(PETG)
Self-Adhesive Reflective Sheeting	(RS)
Self-Adhesive Vinyl	(S)

CONSERVATION SIGNS

K0970
A, P, S (10 in x 14 in, 7 in x 10 in)

K0972
A, P, S (10 in x 14 in, 7 in x 10 in)

J9966
A, P, S (10 in x 14 in, 7 in x 10 in)
F (10 in x 14 in)

K0979
A, P, S (10 in x 14 in, 7 in x 10 in)
F (10 in x 14 in)

K0980
A, P, S (10 in x 7 in, 14 in x 10 in)

J9900
A, P, S (10 in x 14 in, 7 in x 10 in)

J9942
A, P, S (10 in x 14 in, 7 in x 10 in)
F (7 in x 10 in)

PERIMETER SAFETY SIGNS

J7722
A, P (10 in x 14 in, 7 in x 10 in)
S (10 in x 14 in, 5 in x 7 in, 7 in x 10 in)

K1581
A, P, S (7 in x 10 in, 10 in x 14 in)
F (10 in x 14 in)

J6963
A, F, P (7 in x 10 in, 10 in x 14 in)
S (3 ½ in x 5 in, 5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7918
A, P, S (10 in x 14 in, 7 in x 10 in)

J6994
A, F, P, S (7 in x 10 in, 10 in x 14 in)

J7182
A, RS (10 in x 14 in, 7 in x 10 in)

J6997
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

34JX07
RS (5 in x 7 in)

J9275
A, P, S (10 in x 7 in, 14 in x 10 in)
F (14 in x 10 in)

J7732
A, F, P (10 in x 14 in, 7 in x 10 in)
S (10 in x 14 in, 5 in x 7 in, 7 in x 10 in)

35KP06
RS (5 in x 7 in)

WAYFINDING AND DIRECTIONAL SIGNS

J9716
A, P, S (10 in x 7 in)

J9730
A, P, S (10 in x 7 in)

K1752
A, P, S (10 in x 14 in, 7 in x 10 in)
F (10 in x 14 in)

K1758
A, P, S (10 in x 14 in, 7 in x 10 in)

K1472
A, P, S (6 ½ in x 14 in)

K1476
A, F, P, S (6 ½ in x 14 in)

J9842
A, P, S (10 in x 14 in, 7 in x 10 in)

J9778
A, P, S (10 in x 7 in)

K1874
A, P, S (10 in x 14 in, 14 in x 20 in, 7 in x 10 in)
F (10 in x 14 in, 14 in x 20 in)

480X92
PETG (8 in x 8 in)

K1481
A, P, S (10 in x 14 in, 7 in x 10 in)
F (10 in x 14 in)

J9303
A, P, S (10 in x 14 in, 7 in x 10 in)

WORKPLACE SIGNS

K1113
A, P, S (10 in x 7 in, 14 in x 10 in)

K1083
A, P, S (10 in x 7 in, 14 in x 10 in)

J9849
A, P, S (10 in x 14 in, 14 in x 20 in, 7 in x 10 in)
F (14 in x 20 in)

K1079
A, P, S (10 in x 14 in, 7 in x 10 in)

484M94
A (10 in x 17 ½ in)

J7181
A, RS (7 in x 10 in, 10 in x 14 in)

484L91
A (10 in x 14 in)

480W67
PETG (8 in x 8 in)

472Z54
S (7 in x 5 in)

J9848
A, P, S (10 in x 14 in, 7 in x 10 in)

J9908
A, P, S (10 in x 14 in, 7 in x 10 in)

K1068
A, P, S (10 in x 14 in, 7 in x 10 in)

487D43
P (8 in x 12 in)

J7172
A, F, P (7 in x 10 in, 10 in x 14 in)
S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

460M60
A (8 in x 8 in)

J9841
A, P, S (10 in x 14 in, 7 in x 10 in)

467F38 484P74 467F62 484P24 484P67
484P70 484P71 484P64 484P72 467F31
484P54 484P42 484P28 484P33 484P80

STRANCO

Antislip Facility Safety Floor Signs

Flexible vinyl floor signs apply quickly with acrylic adhesive and offer a velvet-finish laminate protective coating for slip resistance. 484P21 to 484P27 glow in the dark. Not retroreflective.

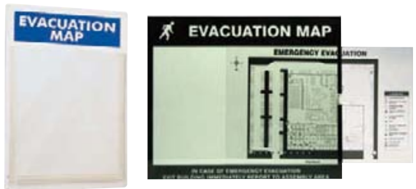
Sign Legend	Sign Legend Background Color	Sign Legend Text Color	Nominal Sign Size	Thickness	Item No.
Circle					
Caution Forklift Traffic	Yellow	Black	17 in x 17 in	0.012 in	467F38
Directional Arrow	Green	—	8 in x 8 in	0.012 in	484P74
Directional Arrow	Light Green	—	17 in x 17 in	0.017 in	484P21
Directional Arrow	White	Red	17 in x 17 in	0.012 in	467F62
Emergency Exit	Light Green	Red	17 in x 17 in	0.017 in	484P24
Exit, With Directional Arrow	Light Green	Red	17 in x 17 in	0.017 in	484P22
Exit And Directional Arrow	Red	White	8 in x 8 in	0.012 in	484P67
Eye Wash Station	Green	White	8 in x 8 in	0.012 in	484P70
Fire Extinguisher	Red	White	8 in x 8 in	0.012 in	484P71
Fire Extinguisher	Light Green	Red	17 in x 17 in	0.017 in	484P26
Keep Aisles Clear	White	Black	8 in x 8 in	0.012 in	484P64
Keep Clear Fire Exit	Light Green	Red	17 in x 17 in	0.017 in	484P25
Pedestrian Traffic Only	White	Black	17 in x 17 in	0.012 in	467F32
Slippery When Wet	Yellow	Black	8 in x 8 in	0.012 in	484P72
Stop	White	White	17 in x 17 in	0.012 in	467F30
Stop	Light Green	White	17 in x 17 in	0.017 in	484P27
Stop Sound Horn	White	White	17 in x 17 in	0.012 in	467F31
Warning Forklift Traffic	Orange	Black	8 in x 8 in	0.012 in	484P66
Warning Forklift Traffic	Light Green	Black	17 in x 17 in	0.017 in	484P23
Diamond					
Pedestrian Walkway	Yellow	Black	17 in x 17 in	0.012 in	484P54
Horizontal Rectangle					
Authorized Personnel Only	Yellow	Black	6 in x 24 in	0.012 in	484P39
Caution, Watch For Forklifts	Yellow	Black	6 in x 24 in	0.012 in	484P50
Caution Slippery When Wet	Yellow	Black	6 in x 24 in	0.012 in	484P42
Caution Use Handrail	Yellow	Black	6 in x 24 in	0.012 in	484P37
Caution Watch Your Step	Yellow	Black	6 in x 24 in	0.012 in	484P36
Octagon					
Stop	Red	White	24 in x 24 in	0.012 in	484P28
Stop, Watch for Pedestrians	White	Black, White	24 in x 24 in	0.012 in	484P30
Triangle					
Forklift Traffic Only	Yellow	Black	15 in x 15 in	0.012 in	484P33
Vertical Rectangle					
Caution, Watch For Forklifts	Yellow	Black	20 in x 14 in	0.012 in	484P80
Caution, Watch Your Step	Yellow	Black	20 in x 14 in	0.012 in	484P78

BRADY

ACCUFORM

Evacuation Map Holders

Holders accommodate custom evacuation maps, allowing building occupants to identify exit procedures in an emergency. **Holders with glow-in-the-dark back** help ensure that maps are visible in any light. Use clear **transparency film** to self-print map inserts for Accuform holders.



14Z542 3UVK8

Description	Brand	Mfr. Model	Item No.	Pkg. Qty.
Evacuation Map Holders with Clear Back				
Fits 8½ in x 11 in Map	Brady	45381	14Z542	1
Fits 11 in x 17 in Map	Brady	102852	14Z546	1
Evacuation Map Holders with Glow-in-the-Dark Back				
Fits 8½ in x 11 in Map	Accuform	DTA202	3UVK8	1
Fits 8½ in x 11 in Map	Brady	102851	14Z543	1
Fits 11 in x 17 in Map	Accuform	DTA204	3UVL4	1
Fits 11 in x 17 in Map	Brady	102853	14Z545	1
Transparency Film Inserts				
For Map Holder 3UVK8	Accuform	DTA213	3YVZ5	2
For Map Holder 3UVL4	Accuform	DTA215	3UVL9	2

486G61 486G59 486G60 483U14
483U11 486G56 483U15 486G72

Condor

Braille Facility Signs

These Grade 2 ADA Braille tactile restroom signs meet ADA requirements. Signs include double-sided, adhesive foam mounting tape. Not retroreflective. 483U11 includes 2 signs.

Sign Legend	Legend/ Background Color	Sign Shape	Nominal Sign Size	Sign Material	Item No.
Elevator Signs					
Elevator	White/Black	Square	8 in x 8 in	Modified Acrylic	486G61
Elevator	White/Brown	Square	8 in x 8 in		486G62
Fire Extinguisher Sign					
Fire Extinguisher	White/Black	Square	8 in x 8 in	Modified Acrylic	486G59
No Smoking Sign					
No Smoking	White/Brown	Square	8 in x 8 in	Modified Acrylic	486G60
Restroom Signs					
All Gender Restroom	White/Black	Vertical Rectangle	9 in x 6 in	Modified Acrylic	483U12
All Gender Restroom	White/Blue	Vertical Rectangle	9 in x 6 in		483U14
Men	White/Black	Square	8 in x 8 in		486G76
Men	White/Brown	Square	8 in x 8 in		486G65
Men	White/Blue	Triangle	12 in x 12 in		486G85
Men/Women	White/Black	Vertical Rectangle	9 in x 6 in	ABS Plastic	483U11
Restroom	Blue, White/ Blue, White	Circle	12 in x 12 in		483U16
Restroom	White/Black	Square	8 in x 8 in	Modified Acrylic	486G78
Restroom	White/Brown	Square	8 in x 8 in		486G63
Restroom	White/Black	Vertical Rectangle	9 in x 6 in	ABS Plastic	486G75
Women	White/Black	Circle	12 in x 12 in		486G69
Women	White/Blue	Circle	12 in x 12 in		486G83
Women	White/Black	Square	8 in x 8 in	Modified Acrylic	486G77
Women	White/Brown	Square	8 in x 8 in		486G64
Stairway Signs					
Stairway	White/Black	Square	8 in x 8 in	Modified Acrylic	486G55
Stairway	White/Brown	Square	8 in x 8 in		486G56
Wheelchair Accessible Restroom Signs					
Gender Neutral	White/Black	Square	8 in x 8 in	Modified Acrylic	486G79
Men	White/Black	Square	8 in x 8 in		486G73
Men	White/Brown	Square	8 in x 8 in		486G81
Men	White/Blue	Triangle	12 in x 12 in	ABS Plastic	486G84
Restroom	Blue, White/ Blue, White	Circle	12 in x 12 in		483U15
Restroom	White/Black	Vertical Rectangle	9 in x 6 in		483U10
Women	White/Blue	Circle	12 in x 12 in		486G82
Women	White/Black	Square	8 in x 8 in	Modified Acrylic	486G74
Women	White/Brown	Square	8 in x 8 in		486G80
Wheelchair Accessible Signs					
(Wheelchair)	White/Black	Square	6 in x 6 in	Modified Acrylic	486G52
(Wheelchair) Entrance	White/Black	Square	8 in x 8 in		486G53
Accessible	White/Black	Vertical Rectangle	9 in x 6 in	ABS Plastic	486G72

BRADY

MASTER MAGNETICS, INC. THE MAGNET SOURCE

Mounting Tape

Double-sided tape mounts signs to irregular surfaces. The tape features white polyethylene foam with high-tack rubber adhesive. 5T160 is card-mounted (4 pcs. per card). **Magnetic tape** with adhesive mounts signs and labels to magnetically receptive surfaces.

6E356

3NJX3

W	L	Brand	Item No.
Double-Sided Foam Tape, White			
¾ in	108 ft	Brady	14Z539
1 in	108 ft	Brady	6E356
¾ in	4½ in	Brady	5T160
Magnetic Tape, Black			
¼ in	50 ft	Master Magnetics	3NJX1
½ in	50 ft	Master Magnetics	3ZDU1
¾ in	50 ft	Master Magnetics	3NJX2
1 in	50 ft	Master Magnetics	3NJX3
2 in	50 ft	Master Magnetics	3NJX4
3 in	50 ft	Master Magnetics	3NJX5

For more information on safety sign compliance and material types, see page 1882.

Unlighted Exit and Entry Signs

Condor

Help people locate the nearest exit or entry in your building.They are mounted in close proximity to exit/entry points or along designated routes to help direct workers and visitors. Looking for lighted exit signs? See page 462 to 465.

Available Sign Materials	
Aluminum	(A)
Fiberglass	(F)
Polyethylene	(P)
Self-Adhesive Vinyl	(S)
Self-Adhesive Glow Vinyl	(GV)

K1849
A (7 in x 10 in, 7 ⅜ in x 12 in, 10 in x 14 in)
Glow Aluminum (10 in x 14 in)
GV, P (3 in x 6 in, 7 in x 10 in, 10 in x 14 in)
S (7 in x 10 in, 10 in x 14 in)

J7040
A, P, S (7 in x 10 in, 10 in x 14 in, 24 in x 36 in)
F (7 in x 10 in, 10 in x 14 in)

J7042
GV, P (10 in x 7 in, 14 in x 10 in)

J7046
A, P, S (10 in x 7 in, 14 in x 10 in)

J7047
A, P, S (10 in x 7 in, 14 in x 10 in)

K1742
A, P, S (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
F (14 in x 20 in)

K1873
A, P, S (10 in x 7 in, 14 in x 10 in, 14 in x 20 in)
F (14 in x 20 in)
GV (10 in x 7 in, 14 in x 10 in)

J7937
A, P, S (7 in x 10 in, 10 in x 14 in)

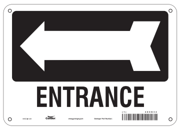
J7055
A, P, S (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

K2119
GV, P (5 in x 7 in, 7 in x 10 in, 10 in x 14 in)

J7056
A, P, S (3 ½ in x 10 in, 5 in x 14 in)

J7058
A, P, S (3 ½ in x 10 in, 5 in x 14 in)

K1795
A, P, S (7 in x 10 in, 10 in x 14 in)



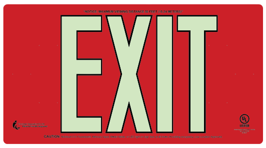
K1789
A, P, S (7 in x 10 in, 10 in x 14 in)

K1799
A, P, S (7 in x 10 in, 10 in x 14 in, 14 in x 20 in)
F (14 in x 20 in)

SKILCRAFT · AbilityOne PROGRAM · Supplier Diversity

Photoluminescent Exit Signs

Nontoxic, nonelectric, nonradioactive, and recyclable. ABS plastic construction with photoluminescent background panel, except 493R54 is aluminum. Rectangular signs with arrows include 2 removable directional arrows, bracket and mounting hardware. Not retroreflective.



Black Outline Text/ Red Background
493R54

White Text/Red Background
D6991

Green Outline Text/ White Background
D6995

Sign Legend	No. of Printed Sides	▶CHOOSE: Text Color	▶CHOOSE: Background Color	Max. Viewing Distance	Nominal Sign Size	Thickness	Brand	Item No.
Rectangle								
Exit	1	Black, White	White Frame w/Black Border	50 ft	7 ½ in x 13 in	0.75 in	—	**E6713**
Exit	1	Black Outline	Red	50 ft	8 ½ in x 15 ¼ in	0.118 in	Skilcraft	**493R54**
Exit	1	Green	Green	50 ft	9 in x 12 in	0.122 in	Ability One	**493R48**
Exit (Double Arrows)	1	White	Black, Green, Red	50 ft	8 ¾ in x 15 ⅜ in	0.75 in	—	**D6991**
Exit (Double Arrows)	1	Green Outline, Red Outline	White	50 ft	8 ¾ in x 15 ⅜ in	0.75 in	—	**D6995**
Exit (Double Arrows)	2	White	Black, Green, Red	50 ft	8 ¾ in x 15 ⅜ in	0.75 in	—	**D6992**
Exit (Double Arrows)	2	Green Outline, Red Outline	White	50 ft	8 ¾ in x 15 ⅜ in	0.75 in	—	**D6996**
Exit (Double Arrows)	1	White	Black, Green, Red	100 ft	8 ⅝ in x 15 ⅞ in	0.375 in	—	**D6993**
Exit (Double Arrows)	2	White	Red, Green	100 ft	8 ⅝ in x 15 ⅞ in	0.375 in	—	**D6994**
Square								
Exit	1	White	Green	50 ft	8 in x 8 in	0.122 in	Ability One	**493R40**
Exit	1	White	Green	50 ft	8 in x 8 in	0.122 in	Ability One	**493R41**

White Text/Green Background
493R40

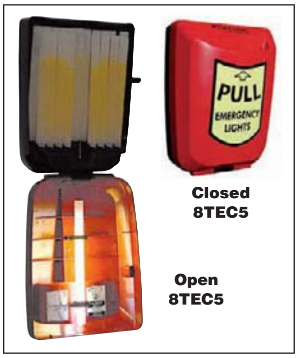
CYALUME Technologies

Emergency Lightstick Stations

Help provide dependable light during power outages. LightStations are designed to hold 10" yellow SnapLight lightsticks that glow for 4 hr. and are visible up to 1 mi. in fog or smoke. Photoluminescent label on front cover helps to locate station. Emergency Evacuation System contains 6" yellow ChemLight lightsticks that glow for 2 hr. Wall mountable.

LightStation Model 20—Heavy-duty molded plastic case. 1 lightstick is activated when front cover is opened. Great for large common areas.

Evacuation System—High-intensity lightsticks provide enough light to prevent falls, slips, and trips near exits, hallways, fire extinguishers, and stairwells. Both lightsticks are activated when front cover is opened.

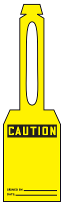


Closed
8TEC5

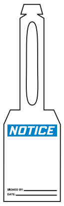
Open
8TEC5

34AZ06

Description	Holds	Includes	H	W	D	Item No.
LightStation Model 20						
Filled Light Center	40 Lightsticks	(40) 4 hr. Yellow 10 in Lightsticks, (6) Tamper Pins, (2) Expiration Labels, (2) Tie Out Tags	14 in	10 ¼ in	4 ½ in	**8TEC5**
Empty Light Center	20 Lightsticks	Empty Cabinet	14 in	10 ¼ in	4 ½ in	**8MLG0**
LightStation Refills						
Lightstation Refill	SnapLight Lightsticks	(40) 10 in Yellow High Intensity 4 Hour SnapLights, 24 Tamper Pins. 16 Expiration Labels and 12 Tie Out Tags	—	—	—	**8VMD2**
Lightstation Refill	SnapLight Lightsticks	(12) 10 in Yellow High Intensity 4 Hour SnapLights, 8 Tamper Pins and 4 Expiration Labels	—	—	—	**8MLG1**
Evacuation System and Refill						
System	(2) 6 in ChemLight Lightsticks	(2) 6 in ChemLights, Mounting Hardware, Expiration Labels, Tamper Pins	9 in	2 ½ in	1 ½ in	**34AZ06**
System Refill	(2) 6 in ChemLight Lightsticks	(10) 6 in ChemLights, Expiration Labels, Tamper Pins	9 in	4 in	1 ½ in	**34AZ07**



3VAX8

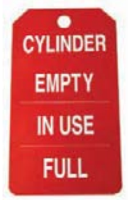


3VAX9

3VAX5

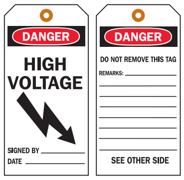
3VAX2

5ENY8

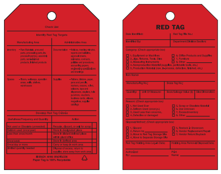


43Z329

1D710



9CMP2


1MK13

35XG08

4ARL4

3XCX9

9X188

43Z320 and 43Z322

4DMG2

5T150

9AC26

43Z344

43Z186

43Z341

Safety Tags

These tags communicate safety instructions and increase awareness of potential hazards.

ACCUFORM. BRADY

Tag Header	Tag Legend	Tag Legend - Back Side	Tag Material, Pkg. Style,	Tag Color	Fastener Type	Brand	Item No.	Pkg. Qty.
Blank & Pre-Printed Header Safety Tags								
Caution	—	—	Plastic, Pack	Yellow	Attached Strap	Accuform	**3VAX8**	25
Notice	—	—	Plastic, Pack	White		Accuform	**3VAX9**	25
Warning	—	Do Not Remove This Tag Remarks:	Polyester, Pack	Black, Orange	Cable Tie	Brady	**8CM80**	10
Danger	—	Out Of Service	PVC, Bag	White	—	—	**3VAX5**	25
Chemical, Gas & Hazardous Material Tags								
Danger	Do Not Open Valve	—	Plastic, Pack	White	Attached Strap	Accuform	**3VAX2**	25
Blank	Full Cylinder Ready For Use	Full Cylinder Ready For Use	Polyester, Pack	Green, White	Cable Tie	Brady	**5ENY8**	10
Cylinder Empty	Cylinder Empty-In Use-Full	Cylinder Empty-In Use-Full	PVC, Bag	Red	—	—	**43Z329**	25
Confined Space Tags								
Confined Space Entry Permit	Confined Space Entry Permit Date & Time Of Issue	Confined Space Entry Permit Comments	Cardstock, Pack	White	—	Accuform	**43Z302**	25
Danger	Permit Entry Confined Space Entry In Progress Name: Dept: Date:	Comments	Polyester, Pack	Black, Red, White	Cable Tie	Brady	**1D710**	25
Electrical Safety Tags								
Danger	High Voltage Signed By: Date:	Do Not Remove This Tag Remarks:	Cardstock, Pack	Black, Red, White	Cotton String	Brady	**9CMP2**	100
Danger	Do Not Throw Switch Men At Work On Circuit Signed By: Date:	Do Not Remove This Tag Remarks:	Polyester, Pack	Black, Red, White	Cable Tie	Brady	**8CM89**	10
General Safety Tags								
Red Tag	Date Identified: Red Tag File No: Identified By: Department: Category:	Check List Identify Red Tag Targets	Cardstock, Pack	Black, Red	Cotton String	Brady	**1MK13**	100
Blank	Normally Open	—	Polyester, Pack	Green, White	Cable Tie	Brady	**35XG08**	10
Do Not Disturb	Do Not Disturb	Do Not Disturb	PVC, Bag	Yellow	—	—	**4ARL4**	10
Blank	Evacuated	Evacuated	PVC, Bag	Orange		—	**3XCX9**	10
Hot Surface & Substance Tags								
Danger	Hot Signed By: Date:	Do Not Remove This Tag Remarks:	Cardstock, Pack	Black, Red, White	Cotton String	Brady	**9X188**	100
Danger	Hot Signed By: Date:	Do Not Remove This Tag Remarks:	Polyester, Pack	Black, Red, White	Cable Tie	Brady	**8PHT8**	10
Hot Work Safety Tags								
Danger	Do Not Perform Hot Work Permit Required	—	Plastic, Individual	White		Accuform	**43Z249**	1
Hot Work Permit	Hot Work Permit Area Of Hot Work	Hot Work Permit Do Not Remove This Tag!	Plastic, Pack	Yellow	—	Accuform	**43Z322**	25
Hot Work Permit	Hot Work Permit Do Not Remove This Tag!	Hot Work Permit, Area Of Hot Work_Work To Be Done__Approval	PVC, Bag	Yellow		—	**43Z320**	25
Machine Safety Tags								
Danger	Do Not Start	Do Not Remove This Tag Remarks___	Plastic, Pack	White	Attached Strap	Accuform	**4DMG2**	10
Danger	Do Not Operate Signed By: Date:	Do Not Remove This Tag Remarks:	Polyester, Pack	Black, Red, White		Brady	**5T150**	25
Danger/Peligro	Do Not Start This Machine Ino Ponga En Marcha Esta Maquina! Signed By Firmado Por: Date Fecha:	Do Not Start This Machine Ino Ponga En Marcha Esta Maquina! Signed By Firmado Por: Date Fecha:	Polyester, Pack	Black, Red, White	Cable Tie	Brady	**9AC26**	10
Danger	Do Not Remove This Tag Remarks___	Do Not Operate, Signed By, Date	PVC, Bag	White	—	—	**4DMG1**	10
Restricted Area Tags								
Danger	Construction Barricade	Construction Work In Progress Within This Barricade	Cardstock, Pack	White		Accuform	**43Z344**	25
Danger	Do Not Enter	Do Not Remove This Tag!	Cardstock, Roll	White	—	Accuform	**43Z186**	250
Danger	Barricade Tag Do Not Remove Notify Contact Person For Entry Instructions	Barricade Tag, Reason Installed, By, Date, Time, Description Of Hazard	PVC, Bag	White		—	**43Z341**	25

Scan. Order. Done.
Details on page A1.

3XDR3

2RMW1

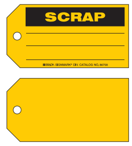
2RMV3

2RMV5

2RMV6

2RMU8

30ZC78



4ZH21

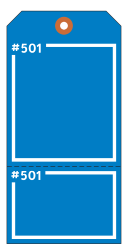
2RMU9

Repair and Maintenance Tags

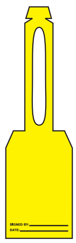
BRADY · Electromark · BADGER TAG & LABEL CORPORATION

Tags mark areas where repair and maintenance are needed. They include a write on surface area to record the date and reason for the repair.

Header	Legend	Reverse Side Legend	Material	Tag Color	H	W	Brand	Item No.	Pkg. Qty.
AED	AED/Automated External Defibrillator Inspect This Unit Carefully Before Signing Inspection Record. Date___ By___	Date By	Cardstock	White	5 in	4 in	—	**38N693**	1
Cleaned	To Be Cleaned	—	Cardstock	White	5 ¾ in	3 in	—	**3XDR3**	25
Danger	Do Not Operate Maintenance Department Signed By: Date:	Do Not Remove This Tag Remarks:	Polyester	Black, Red, White	5 ¾ in	3 in	Brady	**5T151**	25
Emergency Shower & Eye Wash Test Record	Inspect This Unit Carefully Before Signing Inspection Record Date By Do Not Remove This Tag	Inspect This Unit Carefully Before Signing Inspection Record Date By Do Not Remove This Tag	Polyester	Green, White	7 in	4 in	—	**2RMU6**	10
Fire Extinguisher Recharge & Maintenance Record	Instructions Attach This Tag To Fire Extinguisher. Re-Charging And Maintainance Records Are To Be Entered By The Person Performing Such. Water Types - Inspection Check Monthly Maintenance Check Yearly. Foam-Inspection Check Monthly Maintenance Check Year	Inspect This Extinguisher Carefully Before Signing Inspection Record. Do Not Break Seal Except In Case Of Emergency Or To Recharge Or Inspect Contents. Maintenance Record Date By	Polyester	White	5 ¾ in	3 in	—	**2RMX5**	25
Full Cylinder	Repair, With Additional Text	—	Cardstock	Green	3 in	5 ¾ in	—	**4ZH23**	100
Identification	Description___ Part No.___ Serial No.___ Job No.___ P.O. No.___ Quantity___ By___ Date___	—	Cardstock	Yellow	3 in	5 ¾ in	Brady	**4ZH18**	100
Identification	Identification	—	Cardstock	Yellow	3 in	5 ¾ in	—	**2RMV1**	100
Maintenance Record	Date By	Date By	Polyester	Yellow	7 in	4 in	—	**4ZH13**	10
Notice	Temporarily Out Of Use	Temporarily Out Of Use	Polyester	White	5 ¾ in	3 in	—	**2RMW1**	25
Notice	Temporarily Out Of Use Signed By: Date:	Temporarily Out Of Use Signed By: Date:	Polyester	Black, Blue, White	5 ¾ in	3 in	Brady	**4ZH28**	25
Out of Order	Out of Order, With Additional Text, Reverse Side Same as Front	Same as Front	Vinyl	White	5 ¾ in	3 in	Brady	**5T158**	25
Out of Service	—	—	Cardstock	Red	3 in	5 ¾ in	—	**2RMV3**	100
Out of Service	Out of Service, With Additional Text	—	Cardstock	Black	3 in	5 ¾ in	—	**4ZH20**	100
Out of Service	Out Of Service/Fuera De Servicio (Front), Out Of Service/Fuera De Servicio (Back)	—	Cardstock	White	5 ¾ in	3 in	—	**8XCV1**	100
Out of Service	Out Of Service/Fuera De Servicio (Front), Out Of Service/Fuera De Servicio (Back)	—	Polyester	White	5 ¾ in	3 in	—	**8CMR9**	10
Q.A. Approved	W.O. No.___ Description___ Quantity___ Comments___ By___ Date___	—	Cardstock	Green	3 in	5 ¾ in	—	**2RMV5**	100
Repair	Repair	—	Cardstock	Yellow	3 in	5 ¾ in	Electromark	**8VL30**	25
Repair Order	Repairs Required When Repairs Are Completed. Return Tag To Name___ Dept___ Date___	Equipment ID___ Location___ Problem___	Polyester	Orange	7 in	4 in	—	**4ZH16**	10
Repair Orders	—	—	Cardstock	Yellow	3 in	5 ¾ in	—	**2RMV6**	100
Repair Orders	Repairs Required	Repairs Required	Polyester	Green, White	7 in	4 in	—	**2RMU8**	10
Repair Required	Problem___Signed___Date___	—	Paper	Fluorescent Orange	5 ¾ in	2 ⅞ in	—	**30ZC74**	25
Repair Required	Repair Required	—	Cardstock	Red	5 ¾ in	3 in	—	**9EVZ6**	25
Repair Tag	Equipment ID___Problem___Signed By___Date___ Work Completed By___Date___Location___	—	Paper	Brown	5 ¾ in	2 ⅞ in	Badger Tag & Label Corp	**30ZC78**	100
Scrap	Scrap, With Additional Text	—	Cardstock	Yellow	3 in	5 ¾ in	Brady	**4ZH21**	100
Service Record	Last Service Date Next Service Date	Last Service Date Next Service Date	Polyester	Yellow	7 in	4 in	—	**2RMU9**	10
Work Order	W.O. No.___ Description___ Quantity___ Comments___ By___ Date___	—	Cardstock	Yellow	3 in	5 ¾ in	Brady	**4ZH19**	100



3VCW8



3VAY2

52AZ38

Electromark · ACCUFORM · BRADY

Blank Customizable Tags

These tags allow for messaging that simplifies tracking and organization. They can be used in marking machinery for scheduled maintenance or inventory for storage. 52AZ38 is self-laminating and includes a grommet. All have a write-on surface.

Material	Tag Color	H	W	Brand	Item No.	Pkg. Qty.
Cardstock	Blue	5 ¾ in	2 ⅞ in	Electromark	**3VCW8**	100
Cardstock	Green	5 ¾ in	2 ⅞ in	Electromark	**3VCW9**	100
Cardstock	Orange	5 ¾ in	2 ⅞ in	Electromark	**3VCX1**	100
Cardstock	Red	5 ¾ in	2 ⅞ in	Electromark	**3VCX6**	100
Cardstock	Yellow	5 ¾ in	2 ⅞ in	Electromark	**3VCX7**	100
Plastic	White	5 ¾ in	3 ¼ in	Accuform	**3VAY1**	25
Plastic	Yellow	5 ¾ in	3 ¼ in	Accuform	**3VAY2**	25
Polyester	Red	5 in	3 ¼ in	Brady	**20RY17**	25
Polyester Laminate Flap, Vinyl	Yellow	5 in	3 ⅛ in	--	**52AZ38**	25

36D428 (Tags not included.)

4XR16 (Tags not included.)

15Y695

3WPT7

BRADY · ZING

Tag Centers, Stations and Holders

▪ Tags not included, except for 3WPT7 kit

Centers, stations, and holders help personnel stay prepared, safe, and in compliance. These items hold and keep lockout tags organized. They are ideal for most industrial and commercial applications. All are wall mounting. 3WPU2 has multiple mounting options. 3WPT7 has a write-on surface.

Description	Legend	No. of Pockets	Includes	H	W	Brand	Item No.
Tag Center	Tag Center	8	—	15 ¾ in	23 ½ in	Brady	**3ZM60**
Tag Center with 8 Hooks	Tag Center	0	—	15 in	15 in	Zing	**36D428**
Tag Station	No legend	1	—	7 ½ in	4 ¼ in	Brady	**4XR16**
Safety Tag Station	Safety Tag Station	10	—	22 in	16 ½ in	Brady	**15Y695**
Prinzing Tag Holder	No Legend	1	Tag Holder, Adhesive Strips, Magnetic Strips and Screws for Mounting in a Variety of Ways, Pen Holder	3 ½ in	10 in	Brady	**3WPU2**
Prinzing Tag Holder Kit	Do Not Operate Equipment Locked Out	1	(25) Tags, Tag Holder, Marking Pen, (2) Hooks	3 ½ in	10 in	Brady	**3WPT7**

C.H. HANSON ACCUFORM BRADY

Numbered Valve Tags

Round numbered valve tags are engraved with numbers for identifying and tracking tools, parts, and equipment. They are available only in a consecutive number series of 25 or 100 tags. Valve tags with tag text legends are made of brass, are 1½ in dia. and 0.04 in thick.

Material	Dia.	Number Sequence	Color	Thickness	Brand	Item No.	Pkg. Qty.
General Purpose Valve Tags							
Brass	1 in	026-050	Brown	0.04 in	C.H. Hanson	**3XCR3**	25
Brass	1 in	076-100	Yellow	0.04 in	—	**20Y530**	25
Plastic	1 ⅛ in	001-100	Black, White	0.065 in	Accuform	**6KXP0**	100
Plastic	1 ⅛ in	001-100	Green, White	0.065 in	Accuform	**6KXP3**	100
Plastic	1 ⅛ in	001-100	Red, White	0.065 in	Accuform	**6KXP6**	100
Plastic	1 ⅛ in	001-100	Black, White	0.065 in	Accuform	**6KXP9**	100
Plastic	1 ⅛ in	101-200	Red, White	0.065 in	Accuform	**6KXP7**	100
Plastic	1 ⅛ in	201-300	Green, White	—	—	**22FC58**	100
Plastic	1 ⅛ in	201-300	Red, White	0.065 in	Accuform	**6KXP8**	100
Plastic	1 ¼ in	201-300	Red, White	—	—	**22CN27**	100
Brass	1 ½ in	001-025	Brass	0.04 in	Brady	**15Y756**	25
Brass	1 ½ in	026-050	Brass	0.04 in	Brady	**15Y757**	25
Brass	1 ½ in	051-075	Brass	0.04 in	Brady	**15Y758**	25
Brass	1 ½ in	076-100	Brass	0.04 in	Brady	**15Y759**	25
Brass	1 ½ in	101-125	Brass	0.04 in	Brady	**20TD83**	25
Brass	1 ½ in	126-150	Brass	0.04 in	Brady	**20TD84**	25
Brass	1 ½ in	151-175	Brass	0.04 in	Brady	**20TD85**	25
Brass	1 ½ in	176-200	Brass	0.04 in	Brady	**20TD86**	25
Brass	1 ½ in	201-225	Brass	0.04 in	Brady	**20TD87**	25
Brass	1 ½ in	226-250	Brass	0.04 in	Brady	**20TD88**	25

Number Sequence	Brand	Pkg. Qty.	CHWR (Chilled Water Return) Item No.	CW (Cold Water) Item No.	GAS Item No.	HTG (Heating) Item No.	HW (Hot Water) Item No.	PLBG (Plumbing) Item No.	STM (Steam) Item No.
Valve Tags with Tag Text Legend									
001-025	Brady	25	**35TD55**	**20TD89**	**20TD97**	**20TD98**	**20TE01**	**20TD93**	**35TC61**
026-050	Brady	25	**35TD56**	**20TD90**	**35TA52**	**20TD99**	**35TA61**	**20TD94**	**35TC62**
051-075	Brady	25	**35TD57**	**20TD91**	**35TA53**	**35TA55**	**35TA62**	**20TD95**	—
076-100	Brady	25	**35TD58**	**20TD92**	**35TA54**	**35TA56**	**35TA63**	**20TD96**	—
101-125	Brady	25	**35TD59**	**35TA64**	**35TC13**	**35TC29**	**35TA80**	**35TA96**	—
126-150	Brady	25	**35TD60**	**35TA65**	**35TC14**	**35TC30**	**35TA81**	**35TA97**	—
151-175	Brady	25	**35TD61**	**35TA66**	**35TC15**	**35TC31**	**35TA82**	**35TA98**	—
176-200	Brady	25	**35TD62**	**35TA67**	**35TC16**	**35TC32**	**35TA83**	**35TA99**	—
201-225	Brady	25	**35TD63**	**35TA68**	**35TC17**	**35TC33**	**35TA84**	**35TC01**	—
226-250	Brady	25	**35TD64**	**35TA69**	**35TC18**	**35TC34**	**35TA85**	**35TC02**	—

Brass
20Y530

Red, White
Plastic
6KXP6

Green, White
Plastic
22FC58

Brass
15Y756

CHWR
Brass
35TD56

HW
Brass
35TA80

C.H. HANSON SEE ALL BRADY

General Purpose Blank Metal Valve Tags

Blank valve tags are attached to valves to mark important pipe content information, valve identification, or operation information at the point of need. These are used also when pipes are too small for pipe markers. They are attached to the outside of a valve with a wire, beaded chain or zip ties. Stamp description directly onto tag. Steel hand stamp kits are available on page 1901.

Material	Dia.	Color	Thickness	H	W	Brand	Item No.	Pkg. Qty.
Diamond								
Stainless Steel	—	Silver	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**20LT78**	25
Stainless Steel	—	Silver	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**20LT96**	10
Hexagon								
Brass	—	Brass	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**3YYL7**	25
Stainless Steel	—	Silver	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**20LT97**	10
Octagon								
Aluminum	—	Silver	0.02 in	1 ¼ in	1 ¼ in	See All Industries	**3XEF6**	25
Brass	—	Brass	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**8CDJ4**	25
Stainless Steel	—	Silver	0.035 in	1 ½ in	1 ½ in	—	**456Y50**	25
Oval								
Brass	1 in	Brass	0.04 in	1 in	1 ⅞ in	C.H. Hanson	**9EVN8**	25
Stainless Steel	¾ in	Silver	0.04 in	¾ in	1 5⁄16 in	C.H. Hanson	**20LU03**	25
Rectangle								
Aluminum	—	Black	0.04 in	1 in	2 in	C.H. Hanson	**20LR88**	5
Aluminum	—	Blue	0.04 in	1 in	2 in	C.H. Hanson	**20LR89**	5
Aluminum	—	Gold	0.04 in	1 in	2 in	C.H. Hanson	**20LR90**	5
Aluminum	—	Orange	0.04 in	1 in	2 in	C.H. Hanson	**20LR92**	5
Aluminum	—	Red	0.04 in	1 in	2 in	C.H. Hanson	**20LR91**	5
Aluminum	—	Silver	0.01 in	1 ⅜ in	3 ⅛ in	See All Industries	**3XEH2**	100
Aluminum	—	Silver	0.035 in	⅝ in	2 ½ in	—	**456Y51**	100
Brass	—	Brass	0.04 in	2 in	6 in	C.H. Hanson	**20LT11**	5
Brass	—	Yellow	0.035 in	1 ½ in	1 ½ in	—	**456Y55**	100
Stainless Steel	—	Silver	0.04 in	—	2 in	C.H. Hanson	**36UV47**	100
Round								
Aluminum	1 in	Gold	0.04 in	1 in	1 in	C.H. Hanson	**20LR60**	5
Brass	1 in	Brass	0.04 in	1 in	1 in	C.H. Hanson	**36UV50**	100
Brass	1 3⁄32 in	Brass	0.04 in	1 3⁄32 in	1 ⅛ in	C.H. Hanson	**36UV49**	100
Brass	1 ½ in	Brass	0.04 in	1 ½ in	1 ½ in	Brady	**15Y745**	25
Brass	2 in	Brass	0.04 in	2 in	2 in	Brady	**15Y744**	25
Stainless Steel	1 ¼ in	Silver	0.04 in	1 ¼ in	1 ¼ in	C.H. Hanson	**20LT19**	25
Square								
Brass	—	Brass	0.04 in	2 in	2 in	Brady	**15Y746**	25
Aluminum	—	Gold	0.04 in	1 in	1 in	C.H. Hanson	**20LR75**	5

20LT78

20LT97

8CDJ4

9EVN8

456Y51

15Y745

15Y746

BRADY · Lucky Line · C.H. HANSON · ACCUFORM · SEE ALL

Tag Fasteners

These fasteners are used to attach tags to a desired surface or location.

Tag Fastener Type	Wire Diameter	L	Material	Tag Fastener Color	Brand	Item No.	Pkg. Qty.
Beaded Chain & Couplings for Tags							
Beaded Chain	0.03 in	4 ½ in	Iron	Silver	—	**2YB23**	100 *
Beaded Chain	0.03 in	4 ½ in	Iron	Gold	—	**2YB24**	100 *
Beaded Chain	0.03 in	6 in	Iron	Gold	—	**2YB25**	100 *
Beaded Chain	—	4 ½ in	Brass	Brass	Brady	**15Y705**	100 *
Beaded Chain Spool	0.125 in	100 ft	Steel	Silver	Lucky Line Products	**16D513**	1 †
Beaded Chain Spool	0.125 in	100 ft	Brass	Gold	Lucky Line Products	**16D514**	1 †
Ball Chain Coupling	—	—	Steel	Silver	Lucky Line Products	**16D515**	25 *
Ball Chain Coupling	—	—	Brass	Gold	Lucky Line Products	**16D516**	25 *
Beaded Chain	0.048 in	4 ½ in	Brass	Brass	C.H. Hanson	**8C899**	25 *
Beaded Tie for Tags							
Reusable Beaded Tie	—	8 in	Plastic	Natural	Brady	**15Y693**	100
Cable Tie for Tags							
Strap	—	6 in	Nylon	Black	Brady	**15Y697**	10
Strap	—	8 in	Nylon	Black	Brady	**15Y698**	10
Tie	—	8 in	Nylon	Black	Brady	**35XG15**	100
Jack Chain for Tags							
Jack Chain	—	50 ft	Brass	Brass	Brady	**15Y752**	1 *
S Hook for Tags							
S Hook, ½ in Opening Size	—	1 ¾ in	Brass	Natural	Brady	**15Y701**	100
S Hook, ¼ in Opening Size	—	1 ¼ in	Brass	Natural	Brady	**15Y702**	100
S Hook, ⅜ in Opening Size	—	1 ½ in	Brass	Natural	Brady	**15Y703**	100
Snap Hook Loop for Tags							
Temporary Valve Tag Fasteners	1.375 in	5 in	Zinc	Silver	Brady	**20TJ44**	100
Snap Hook Loop, ½ in Opening Size	—	2 ¹³⁄₁₆ in	Steel	Silver	Accuform	**49AW69**	1
Wire Clamp for Tags							
Cable Ferrule for ¹⁄₁₆ in Wire	0.048 in	⅜ in	Zinc	Silver	Brady	**15Y761**	50
Wire for Tags							
Safety Wire	0.032 in	1,800 ft	Stainless Steel	Silver	Brady	**15Y754**	1
Safety Wire	0.048 in	30 ft	Stainless Steel	Silver	Brady	**15Y755**	1
Wire	0.022 in	12 in	Steel	Silver	Brady	**5KN54**	100
Tag Fastener	0.018 in	12 in	Steel	Silver	See All Industries	**9K613**	1000

** Include coupling link. † 100 ft bulk pack.*

2YB24

15Y693

15Y697

15Y752

15Y701

49AW69

15Y761

15Y754

9K613

Tamper-Evident Seals

BRADY · C.H. HANSON

Security seal presses crimp the wire on lead and wire seals. Crimping the wire provides a more secure seal than soft wire, allowing the seal to secure doors, containers, and other applications where tamper resistance is required. Once crimped, the seal can't be opened without detection.

Lead and wire seals provide tamper evidence if broken, making them ideal for light security and loss prevention in agricultural, law enforcement, storage, and utilities applications. They're placed on water meters, drums, and hoppers and are sealed by passing the wire through the metal disc, then crushing the disc with a press.

Lead and wire seal components replace used or broken elements from lead and wire seals.

For Use With	Body Material	L	Brand	Item No.	Pkg. Qty.
Sealing Presses					
Lead and Wire Seals	Nickel, Rubber	6 ½ in	—	**1F132**	1
Lead and Wire Seals	Steel	5 ⅘ in	Brady	**20TL23**	1

Wire Material	Wire Length	Tool Required	Breaking Strength	Brand	Item No.	Pkg. Qty.
Lead & Wire Seals						
Brass	10 in	Application, Removal	14 lb	—	**1F246**	100
Copper	12 in	Application, Removal	—	Brady	**15Y704**	250
Lead	12 in	Application, Removal	—	Brady	**20TL24**	250

Description	Material	Tool Required	Brand	Item No.	Pkg. Qty.
Lead & Wire Seal Components					
Lead Seal	Lead	Application, Removal	—	**2CEC4**	100
Wire	Brass	Not Required	—	**2CEC5**	1
Wire Seal	Stainless Steel	Not Required	—	**2CEC6**	100
Wire	Annealed Steel	Not Required	C.H. Hanson	**3YYP7**	100

1F132

1F246

2CEC5

Stencils

Easy-to-use stencils provide clear and legible warnings, precautions, and signs. Can be used with a variety of spray or brush-on paint.

BRASS ADJUSTABLE

Characters interlock by sliding adjacent grooves together. Easy to disassemble.

13-Pc. Number Kits—Include: one each of 0 to 9, beginner and period characters, and plain ender.

15-Pc. Number Kits—Include: one each of numbers 0 to 9, two large spacers, one dash, and one period.

33-Pc. Letter Kits—Include: one each of A to Z, ampersand (&) symbol, beginner, comma, dash, period, period ender, and spacer.

46-Pc. Number and Letter Kits—Include: one each of letters A to Z, numbers 0 to 9, comma, dash, and ampersand (&). Also include two each of large spacers, small spacers, and periods.

92-Pc. Number and Letter Kits—Include: four each of letter E; three each of A, I, N, O, S; 1 of Q; two each of remaining letters and ampersand (&) symbol; three each of numbers 1 and 0; two each of 2 to 9. Also one each of beginner, comma, dash, period ender, and plain ender; two periods; and three spacers.

PVC ADJUSTABLE

Characters interlock by sliding adjacent grooves together. Easy to disassemble.

138-Pc. Number and Letter Kits—Letters include six each of A, E, R, and S; three each of all other letters. Numbers include three each of 0 to 9. Also include three each of small spacers, larger spacers, periods, dash, dollar symbols ($), and ampersand symbols (&).

SAFETY LEGENDS

Flexible, PVC stencils are precut for application to numerous surfaces.

PARKING LOT LEGENDS AND SYMBOLS

Flexible stencils are made of high-impact, chemical-resistant plastic.

6A232

3W635

3W626

Description	Character H	Item No.
Brass Adjustable Numbers and Letters		
13-Pc. Numbers	8 in	**1F042**
	10 in	**2CEC3**
	12 in	**1F044**
15-Pc. Numbers	1 in	**20Y511**
	1 ½ in	**20Y516**
	2 in	**20Y512**
	3 in	**20Y513**
	4 in	**20Y514**
	6 in	**20Y515**
33-Pc. Letters	1 in	**20Y505**
	1 ½ in	**20Y510**
	2 in	**20Y506**
	3 in	**20Y507**
	4 in	**20Y508**
	6 in	**20Y509**
	8 in	**1F045**
	10 in	**2CEC2**
	12 in	**1F047**
46-Pc. Numbers and Letters	1 in	**20Y518**
	2 in	**20Y519**
	3 in	**20Y520**
	6 in	**20Y521**
	4 in	**20Y522**
92-Pc. Numbers and Letters	1 in	**3W647**
	1 ½ in	**20Y503**
	2 in	**6A231**
	3 in	**6A232**
	4 in	**3W648**
	6 in	**20Y504**

Description	Character H	Item No.
PVC Adjustable Numbers and Letters		
138-Pc. Numbers and Letters	1 in	**20Y523**
	2 in	**20Y524**
	3 in	**20Y525**
Safety Legends		
Arrow	3 ½ in	**20Y539**
Danger	2 ½ in	**1F124** *
Fire Extinguisher	2 in	**1F130** *
Flammable	2 in	**1F127** *
Keep Aisle Clear	3 in	**20Y546**
No Parking	2 in	**1F122** *
Warning	2 ½ in	**20Y538**
Watch Your Step	3 in	**20Y545**
Parking Lot Legends and Symbols		
Arrow (Curved)	27 in	**3W634**
Arrow (Straight)	20 in	**3W633**
Disabled	43 in	**3W635**
Fire Lane	12 in	**3W628**
Handicap Symbol	15 ½ in	**20Y542**
No Parking	12 in	**3W626**
No Parking Symbol	15 ½ in	**20Y543**
Reserved	12 in	**3W630**
Visitors	12 in	**3W631**

** Meet OSHA Regulation 1910.145.*

Adhesive Pipe Markers

BRADY

Markers are attached to pipes throughout a facility or worksite to communicate the contents of a pipe. They are color coded and have printed text that defines the contents flowing through the pipe. The adhesives help ensure proper safety procedures are followed and help workers solve potential problems more efficiently. Products are vinyl and for indoor and outdoor use. Marker ends should be banded with directional flow arrow tape, available separately, to indicate pipe content flow direction. Meet ANSI A13.1 Standards when used with directional flow arrow tape, sold separately on page 1896. Pkg. of 5.

Green/White
781ZN1

Red/White
6M412

Yellow/Black
781Z22
(Shown with Directional Flow Arrow Tape)

Description	Markers per Card
Fits Pipe O.D. <¾ in	3
Fits Pipe O.D. ¾ to 2⅜ in	4
Fits Pipe O.D. 2½ to 7⅞ in	1
Fits Pipe O.D. =>8 in	1

Pipe Marker Legend	Background Color	Legend Text Color	Fits Pipe O.D. <¾ in Item No.	¾ to 2 ⅜ in Item No.	2 ½ to 7 ⅞ in Item No.	=>8 in Item No.
With Arrows						
Condensate Return	Yellow	Black	781Z04	—	—	—
Electric Traced	Yellow	Black	782FD1	—	—	—
Medical Air	Yellow	Black	781WD0	—	—	—
Medical Vacuum	White	Black	781WF5	—	—	—
Nitrogen	Black	White	781X34	—	—	—
Oxygen	Blue	White	781X27	—	—	—
Oxygen	Green	White	781XC9	—	—	—
Oxygen	Yellow	Black	781XR1	—	—	—
Return	Blue	White	783HF6	—	—	—
Return	Green	White	782FK8	—	—	—
Return	Yellow	Black	782F92	—	—	—
Without Arrows						
Air	Blue	White	781WM2	781WR4	781WG1	781WE7
Air	Green	White	781WJ0	781W91	—	781WD5
Air	Yellow	Black	781W05	781VT9	781WK7	781W74
Air Supply	Blue	White	781WN5	781VU5	781VT7	781W39
Air Supply	White	Black	781VT0	781W40	—	781W03
Argon	Blue	White	781XF4	781X06	781X66	781X67
Argon	Brown	White	781XN4	781XK7	781X92	781XG5
Argon	Green	White	781XR9	781XR7	—	781XA4
Carbon Dioxide	Brown	White	781X07	781X16	781XM9	781XE8
Carbon Dioxide	Red	White	781XF0	781X52	783H76	781X61
Carbon Dioxide	Yellow	Black	781WZ7	781XF7	781X63	781XP2
Chilled Water Return	Green	White	782AA3	781ZC6	781ZN1	782A87
Chilled Water Supply	Green	White	—	781ZM2	781ZG5	781ZL2
Compressed Air	Blue	White	781VR4	781WM5	781VX2	781W44
Compressed Air	Green	White	781WP4	781WH9	781WN7	781W49
Compressed Air	Yellow	Black	781W86	781VU4	781VU8	781VY2
Condensate	Brown	White	—	—	781YV8	781Z18
Condensate	Yellow	Black	781Z24	781Z40	781YX6	781Z51
Condensate Drain	Green	White	781YY8	781YY5	781YU1	781YU3
Condensate Drain	Yellow	Black	781YW5	781Z42	781YV0	781Z05
Condensate Pump Discharge	Brown	White	781YZ1	781Z43	—	—
Condensate Return	Green	White	—	781YZ0	781YX9	—
Condensate Return	Yellow	Black	—	781YW7	781YT7	781YU0
Domestic Cold Water	Green	White	—	6M561	6M560	—
Domestic Hot Water	Green	White	782A28	781ZY1	782F24	781ZA7
Domestic Hot Water	Yellow	Black	782A14	—	—	781ZJ1
Domestic Hot Water Return	Green	White	782A77	782AC5	781Z96	782A94
Domestic Hot Water Return	Yellow	Black	782A69	781ZY6	782A83	781ZM8
Domestic Hot Water Supply	Green	White	781ZR5	781ZC5	781Z60	—
Domestic Hot Water Supply	Yellow	Black	781ZC8	782A95	781ZX1	—
Drain	Green	White	782FJ3	782FN7	782FC1	782FK3
Drain	Yellow	Black	782FV1	782F78	782FC7	782F83
Electric Traced	Orange	Black	—	782F76	782FF7	782FM7
Electric Traced	Yellow	Black	—	782FX4	782FK6	782FW4
Fire Protection Water	Red	White	—	6M465	6M412	—
Gas	Brown	White	781XR2	781XL1	—	—
Gas	Yellow	Black	781X38	781XC8	781XN0	781WZ4
Heating Return	Green	White	781W77	781W24	781W79	781WL3
Heating Return	Yellow	Black	781W90	781W42	781VX7	781WD4
Heating Supply	Green	White	781W23	781W72	781WC7	781WN8
Heating Supply	Yellow	Black	781VY3	781VZ7	781W14	781WG6
Heating Water Return	Green	White	781ZN5	781ZA2	782AC8	781ZE9
Heating Water Return	Yellow	Black	782A09	781ZX9	782A12	782A54
Heating Water Supply	Green	White	781Z83	781ZT7	781Z95	—
Heating Water Supply	Yellow	Black	782AA9	781ZL1	781ZP2	—
High Pressure Steam	Green	White	—	781YV4	781Z28	781YW6
Without Arrows (Cont.)						
High Pressure Steam	Yellow	Black	—	781YY3	781Z22	781Z01
Hot Water	Green	White	781ZT1	781ZT5	781Z73	—
Hot Water	Yellow	Black	781ZZ2	781Z78	781ZG4	—
Hot Water Return	Green	White	782A36	781ZA8	781ZH4	782AE9
Hot Water Return	Yellow	Black	782F15	782A61	782A23	781ZK6
Hot Water Supply	Green	White	782A73	781ZR3	781ZT9	781ZY2
Hot Water Supply	Yellow	Black	781Z69	781ZK2	781ZU5	781ZR7
Low Pressure Steam	Green	White	781YU8	781YU2	781YZ5	781Z41
Low Pressure Steam	Yellow	Black	781YU9	781Z27	781YX7	781YV1
Medical Air	Blue	White	—	781W09	—	—
Medical Air	Yellow	Black	—	781WD2	781WL7	781WF1
Medical Vacuum	Blue	White	—	781VR7	—	—
Medical Vacuum	White	Black	—	781W17	—	781WE1
Natural Gas	Brown	White	781XG3	781X81	781X86	781XK4
Natural Gas	Yellow	Black	781WY5	—	—	781X76
Nitrogen	Blue	White	781XJ0	781XR8	781X47	781XD1
Nitrogen	Green	White	781XA8	781XE2	781X42	781XH7
Non-Potable Water	Green	White	782F28	—	781Z66	781ZJ0
Non-Potable Water	Yellow	Black	782A58	—	—	781ZW0
Oxygen	Blue	White	—	781X04	781XE7	—
Oxygen	Green	White	—	781X17	781X09	781XC4
Oxygen	Yellow	Black	—	781X90	781XA9	—
Potable Water	Green	White	782A53	782AD5	782A50	782AC4
Potable Water	Yellow	Black	782F23	781ZU9	781Z56	—
Propane Gas	Brown	White	781X12	781X78	781XP3	781XL0
Propane Gas	Yellow	Black	781X39	781XC3	781XG7	781X73
Return	Blue	White	—	783HF0	782F79	783HF3
Return	Green	White	—	782FV2	782FA9	782FD6
Return	Yellow	Black	—	782FT3	782FY3	782F73
Steam	Green	White	781Z14	781YY6	781YV3	781Z29
Steam	Yellow	Black	781YW4	781YV7	781YX2	781Z11
Steam Supply	Green	White	781YW9	781YV6	781YW8	781YZ3
Steam Supply	Yellow	Black	781YY0	781YZ6	781YZ9	781Z46
Supply	Blue	White	782FH3	782FT4	782FX7	782FM6
Supply	Green	White	782FA3	782FT6	782FJ5	782FY6
Supply	Yellow	Black	782FH6	782FA2	782F70	782FF4
Vacuum	Green	White	781WM1	781VR6	781WL5	781WE2
Vacuum	Yellow	Black	781W01	781W27	781WK8	781WA5
Vent	Blue	White	—	—	781WA2	781WP0
Vent	Green	White	—	781VR5	781VX5	781WC1
Vent	White	Blue	—	782FA4	—	—
Vent	Yellow	Black	—	781W16	781WR3	781W20
Waste Water	Green	White	781ZV8	782A26	781ZW6	781ZC9
Waste Water	Yellow	Black	781ZN0	781ZJ3	781ZJ7	781ZH3
Water	Green	White	781ZZ4	781ZK0	781ZA4	—
Water	Yellow	Black	781ZK3	781ZZ7	781ZW8	—

BRADY

Adhesive Ammonia Refrigeration Pipe & Component Markers

Markers identify pipes containing ammonia. These markers define the specific type of ammonia, the physical state or phase of ammonia, the pressure level, and the direction that the ammonia is flowing. They are attached to pipes to ensure visibility.

Description	Markers per Card
Fits Pipe O.D. ¾ to 2⅜ in	4
Fits Pipe O.D. 2½ to 7⅞ in	1
Fits Pipe O.D. =>8 in	1

Pipe Marker Legend	IIAR Abbreviation	IIAR Phase	IIAR Pressure Level	Background Color	Legend Text Color	Fits Pipe O.D. ¾ to 2 ⅜ in Item No.	2 ½ to 7 ⅞ in Item No.	=>8 in Item No.
Without Arrows								
Ammonia	(Blank)	LIQ	Low	Yellow	Black, Green, Orange, White	9E513	8CVP0	8XCU8
Ammonia	(Blank)	VAP	High	Yellow	Black, Blue, Red, White	8CWR9	—	9AC49
Ammonia	HG	VAP	High	Yellow	Black, Blue, Red, White	9CRW0	—	9NLR3
Ammonia	HGD	VAP	High	Yellow	Black, Blue, Red, White	9MDN7	9X192	—
Ammonia	HSD	VAP	High	Yellow	Black, Blue, Red, White	8CX91	9ME81	8VU53
Ammonia	HTRL	LIQ	Low	Yellow	Black, Green, Orange, White	8NDH7	9CTF0	9F213
Ammonia	PO	LIQ	Low	Yellow	Black, Green, Orange, White	8ZDL2	8CNP8	8CF57
Ammonia	RV	VAP	High	Yellow	Black, Blue, Red, White	8CWA1	9DZK4	9GCP3
Ammonia	HTRS	LIQ/VAP	Low	Blue, Green, Orange, Yellow	Black, Blue, Green, White	—	6M766	—
Ammonia	HTRS	LIQ/VAP	Low	Blue, Green, Orange, Yellow	Black, Blue, White	—	—	6M805
Ammonia	HTS	VAP	Low	Yellow	Black, Blue, Green, White	—	—	8NC35
Accumulator Low	(Blank)	—	—	Green, Yellow	Black	—	—	20RY10
Compressor High	(Blank)	—	—	Red, Yellow	Black	—	—	20RY11
Evaporator Low	(Blank)	—	—	Green, Yellow	Black	—	—	20RY16
Heat Exchanger Low	(Blank)	—	—	Green, Yellow	Black	—	—	20RY12
Oil Separator High	(Blank)	—	—	Red, Yellow	Black	—	—	20RY15
Recirculator Low	(Blank)	—	—	Green, Yellow	Black	—	—	20RY14

9E513

8NDH7

20RY14

Snap-On, Strap-On and Wrap-Around Pipe Markers

- Each includes 1 pipe marker

Markers offer 360° visibility with repeating legends. They may be applied to dirty, oily, greasy, or rough surfaces in outdoor and indoor environments. Markers are also designed to be lightweight and durable and can be removed and reapplied in other areas. Meet ANSI A13.1 standards. Nonadhesive, coiled **Snap-on markers** "snap" around the pipe for quick installation. **Strap-on markers** are nonadhesive flat sheets that attach with nylon straps. **Wrap-Around markers** have an adhesive edge to secure the marker to the pipe.

Snap-On
6GP86

Strap-On
5LEN4

Pipe Marker Legend	Background Color	Legend Text Color	Fits Pipe O.D.	Item No.
Snap-On Pipe Markers				
With Arrows				
Argon	Brown	White	¾ to 1 ⅜ in	**5GYC4**
Argon	Green	White	1 ½ to 2 ⅜ in	**5GXG5**
Argon	Blue	White	4 to 6 in	**5LDY3**
Asbestos Insulation	Yellow	Black	4 to 6 in	**5GYJ3**
Carbon Dioxide	Yellow	Black	1 ½ to 2 ⅜ in	**5GXJ1**
Carbon Dioxide	Brown	White	2 ½ to 3 ⅞ in	**5LEC6**
Compressed Air	Blue	White	1 ½ to 2 ⅜ in	**6GT31**
Compressed Air	Green	White	1 ½ to 2 ⅜ in	**6GT29**
Compressed Air	Yellow	Black	1 ½ to 2 ⅜ in	**6GT30**
Domestic Cold Water	Green	White	2 ½ to 3 ⅞ in	**6H559**
Domestic Hot Water	Yellow	Black	¾ to 1 ⅜ in	**6GR06**
Fire Protection Water	Red	White	¾ to 1 ⅜ in	**6GP86**
Gas	Blue	White	2 ½ to 3 ⅞ in	**5LDY8**
Make Up Water	Green	White	2 ½ to 3 ⅞ in	**8CR73**
Natural Gas	Brown	White	¾ to 1 ⅜ in	**3GTX2**
Natural Gas	Yellow	Black	1 ½ to 2 ⅜ in	**6GT38**
Water	Green	White	2 ½ to 3 ⅞ in	**6GT94**
Water	Yellow	Black	2 ½ to 3 ⅞ in	**5LDX8**
Without Arrows				
Hydrogen	Brown	White	¾ to 1 ⅜ in	**24VJ69**
Strap-On Pipe Markers				
With Arrows				
Air	Yellow	Black	8 to 9 ⅞ in	**5LEH2**
Chilled Water Return	Green	White	6 to 7 ⅞ in	**5LEN0**
Chilled Water Supply	Green	White	8 to 9 ⅞ in	**5LEN4**
Condensate	Brown	White	6 to 7 ⅞ in	**5LGA3**
Condensate Return	Yellow	Black	10 to 15 in	**5LET5**
Condenser Water Supply	Green	White	6 to 7 ⅞ in	**5LET9**
Fire Protection Water	Red	White	8 to 9 ⅞ in	**5LEX3**
Heating Return	Yellow	Black	8 to 9 ⅞ in	**5LEY5**
Heating Supply	Yellow	Black	6 to 7 ⅞ in	**5LEY7**
Hot Water	Green	White	8 to 9 ⅞ in	**5LGE7**
Hot Water Return	Green	White	8 to 9 ⅞ in	**5LGF0**
Hot Water Supply	Green	White	10 to 15 in	**5LGF4**
Natural Gas	Yellow	Black	8 to 9 ⅞ in	**5LFD7**
Non-Potable Water	Green	White	10 to 15 in	**5LGG9**
Overflow	Yellow	Black	6 to 7 ⅞ in	**5LFF4**
Pumped Condensate	Yellow	Black	6 to 7 ⅞ in	**8NCP3**
Steam	Yellow	Black	8 to 9 ⅞ in	**5LFK9**
Storm Drain	Green	White	10 to 15 in	**5LFL3**
Storm Water	Green	White	6 to 7 ⅞ in	**8VUK1**

Fastener for Strap-On Pipe Markers
5GXE5

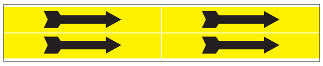
Wrap-Around
14H793

Tag Fastener Type	Material	Tag Fastener Color	L	Item No.
Fastener For Strap-On Pipe Markers				
Self Locking Strapping	Plastic	Black	150 ft	**5GXE5**

Pipe Marker Legend	Background Color	Legend Text Color	Fits Pipe O.D. 1 ½ to 2 ⅜ in Item No.	Fits Pipe O.D. 2 ½ to 7 ⅞ in Item No.	Fits Pipe O.D. ½ to 1 ⅜ in Item No.
Wrap-Around Pipe Marker					
With Arrows					
Chilled Water Return	Green	White	**14H781**	**14H782**	**14H783**
Chilled Water Supply	Green	White	**14H785**	**14H786**	**14H787**
City Water	Green	White	**14H789**	**14H790**	**14H791**
Compressed Air	Blue	White	**14H793**	**14H794**	**14H795**
Compressed Air	Yellow	Black	**14H796**	**14H797**	**14H798**
Condensate Drain	Green	White	**14H805**	**14H806**	**14H807**
Natural Gas	Brown	White	**24VD86**	**24VE94**	**24VC78**
Natural Gas	Yellow	Black	**14H924**	**14H925**	**14H926**
Nitrogen	Green	White	**14H932**	**14H933**	**14H934**
Nitrogen	Yellow	Black	**14H936**	**14H937**	**14H938**
Oxygen	Blue	White	—	—	**24VC83**
Oxygen	Green	White	**24VD92**	**24VF01**	**24VC84**
Oxygen	Yellow	Black	**14H944**	**14H945**	**14H946**
Propane Gas	Yellow	Black	**24VD97**	—	**24VC89**
Propane Gas	Brown	White	—	—	**24VC90**
Without Arrows					
Anhydrous Ammonia	Yellow	Black	**14H754**	**14H755**	**14H756**

Adhesive Pipe Marking Arrows & Banding Tape

Arrows and tape wrap around pipes to increase visibility and mark the directional flow of the contents within the pipe. They are used in conjunction with pipe markers. Brady and Harris Industries products are vinyl and for indoor and outdoor use. Incom tape is polyethylene and for indoor use only.

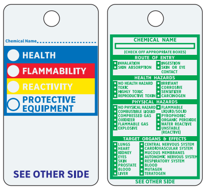


Directional Flow Arrows Yellow/Black
D3383

Solid Color Banding Tape Blue
D3615

Directional Flow Arrow Banding Tape Red/White
D3612

Pipe Marker Legend	▶CHOOSE: Background Color	▶CHOOSE: Legend Text Color	W	L	Fits Pipe O.D.	Brand	Item No.
Pipe Marker Directional Flow Arrows							
4 Markers Per Card							
Arrow	Blue, Green, Red, Yellow	Black, White	7 in	7 in	1 to 2½ in	Brady	**D3383**
2 Markers Per Card							
Arrow	Blue, Green, Red, Yellow	Black, White	7 in	7 in	2½ to 7⅞ in	Brady	**D3449**
Arrow	Blue, Green, Red, Yellow	Black, White	12 in	12 in	6 in and Larger	Brady	**D3528**
Pipe Marker Directional Flow Arrow Banding Tape							
Arrow	Blue, Brown, Gray, Green, Orange, Red, White	Black, White	1 in	1,080 in	—	Brady	**D3612**
Arrow	Gray, Green, Orange, Red, White	Black, White	1 in	1,296 in	—	Incom Manufacturing	**D4933**
Arrow	Blue, Green, Red, Yellow	Black, White	2 in	648 in	—	Harris Industries	**E8343**
Arrow	Blue, Brown, Gray, Green, Orange, Red, White	Black, White	2 in	1,080 in	—	Brady	**D3613**
Arrow	Gray, Green	Black	2 in	1,296 in	—	Incom Manufacturing	**D4934**
Arrow	Blue, Brown, Green, Orange, Red, White, Yellow	Black, White	4 in	1,080 in	—	Brady	**D3614**
Arrow	Blue, Gray, Green, Orange, White	Black, White	4 in	1,296 in	—	Incom Manufacturing	**D4935**
Pipe Marker Solid Color Banding Tape							
No Legend	Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	—	1 in	1,080 in	—	Brady	**D3615**
No Legend	Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	—	2 in	1,080 in	—	Brady	**D3616**
No Legend	Black, Blue, Brown, Gray, Green, Orange, Purple, Red, White, Yellow	—	4 in	1,080 in	—	Brady	**D3617**



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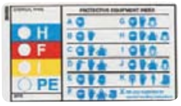
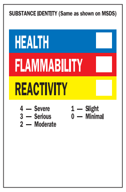


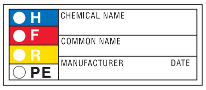
8AKA0

HMIG Write-On Labels

Self-adhesive Hazardous Materials Identification Guide (HMIG) labels identify potential hazards in the workplace.



3TL67



9DT07

Legend	Material	H	W	Brand	Item No.	Pkg. Qty.
Chemical Flammability and Reactivity	Vinyl	5 ¾ in	3 in	Brady	**8XZ05**	25
Chemical Name___Common Name___Manufacturer___	Paper Permanent Adhesive, Polyester Laminate Flap	1 ½ in	3 in	Badger Tag & Label Corp	**9NMH1**	500
Chemical Name___ Manufacturer___Date___		1 ½ in	3 in	Badger Tag & Label Corp	**9TXM3**	500
HMIG	Vinyl	1 in	3 in	Harris Industries	**9RTD1**	720
HMIG	Paper	1 ⅛ in	3 ⅛ in	Brady	**8NDC8**	1000
HMIG	Polyester	2 in	3 ½ in	Brady	**8AKA0**	25
HMIG		3 in	5 in	Brady	**9EZF1**	25
HMIG	Paper	3 ⅞ in	3 ⅞ in	Brady	**8AAR4**	100
HMIG	Polyester	4 in	7 in	Brady	**8UMN9**	25
HMIG	Paper	5 ⅞ in	4 in	Brady	**8AAR6**	100
HMIG Reactivity		⅞ in	⅞ in	Brady	**9WYY7**	750
HMIG Reactivity		2 ⅞ in	⅞ in	Brady	**8ARM1**	500
No Header	Vinyl	5 in	3 in	Brady	**3TL68**	500
No Header	Paper	5 in	3 in	Brady	**3TL67**	500
No Legend		1 ½ in	3 ⅞ in	Brady	**9DT07**	1000

8A206

8TPF1

NFPA Write-On Labels

Self-adhesive labels feature color-coded National Fire Protection Association (NFPA) National Fire Rating and National Fire Rating (NFR) diamonds. Users write in the correct information on each label to identify hazard rating.

Legend	Material	H	W	Brand	Item No.	Pkg. Qty.
Chemical___ Owner___Date___	Paper Permanent Adhesive, Polyester Laminate Flap	1 ⅛ in	2 ⅞ in	Badger Tag & Label Corp	**8PAY9**	500
Chemical Name___Common Name___Manufacturer___		1 ⅛ in	2 ⅞ in	Badger Tag & Label Corp	**8A206**	500
NFR	Vinyl	1 in	3 in	Harris Industries	**8TPF1**	720
Health Hazard, Flammability Hazard, Instability Hazard, Personal Protection	Paper	2 in	1 ¼ in	Brady	**3TL75**	500
No Header	Vinyl	2 in	1 ¼ in	Brady	**3TL76**	500
Health Hazard / Fire Hazard / Specific Hazard / Reactivity	Paper	5 in	3 in	Brady	**3TL69**	500
No Header	Vinyl	5 in	3 in	Brady	**4T771**	50
No Header		5 in	3 in	Brady	**3TL70**	500

6R702

6R694

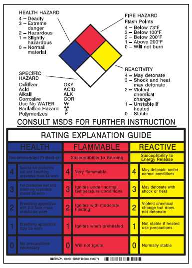
6R726

6R696

Hazardous Material Shipping Labels

Diamond-shaped, self-sticking vinyl labels can be used on containers, vehicles, and dispensers containing hazardous products. Labels withstand temps. down to -50°F. 500 labels per roll.

Legend	W	H	Item No.
Flammable Liquid 3	4 in	4 in	**6R702**
Nonflammable Gas 2	4 in	4 in	**6R694**
(Misc. Hazardous Materials) 9	4 in	4 in	**6R726**
Flammable Gas 2	4 in	4 in	**6R696**



3AC37

6KXW7

9U899

3AC80

NFPA Placard Signs and Kits

- Signs and kits meet the NFPA 704 Standard; die-cut numbers and letters meet ASTM D 2979

Placard signs and kits keep your facility in compliance and employees informed of potential hazards. All signs have 4 mounting holes. Signs and die-cut numbers are not retroreflective.

3AC37—Placard graphically explains the National Fire Protection Association (NFPA) hazard identification coding system. Use indoors or outdoors.

6KXW7—Printed aluminum flip panels display the four hazard categories and allow any possible combination to display the proper NFPA hazard information. Ideal for areas where hazardous materials or chemicals change. A plastic face plate fits over the placard to keep in place.

5AZ67, 2BC56, and 3AC80—Placards show the red, blue, yellow, and white NFPA diamond and do not have text. Use die-cut numbers (sold separately in this ad) and letters to mark the corners of placards.

NFPA Placard Sign Kits are designed to help users create customized placards quickly.

Interlocking vinyl **Numbers** are self-spacing and self-aligning. Find more Quick-Align numbers and letters on page 1900.

Includes	Material	Mounting Style	H	W	Brand	Item No.	Pkg. Qty.
NFPA Placard Signs							
NFPA Sign	Fiberglass	With Mounting Holes	14 in	10 in	Brady	**3AC37**	1
NFPA Sign	Aluminum	With Mounting Holes	15 ½ in	15 ½ in	Accuform	**6KXW7**	1
NFPA Sign	Fiberglass	With Mounting Holes	11 in	11 in	Brady	**5AZ67**	1
NFPA Signs	Vinyl	Adhesive-Backed	5 in	5 in	Brady	**2BC56**	10
NFPA Signs	Vinyl	Adhesive-Backed	10 in	10 in	Brady	**3AC80**	10
NFPA Placard Sign Kits, Vinyl Adhesive-Backed							
(1) ACID, (1) ALK, (1) COR, (1) NFPA Diamond, (1) Nuclear Symbol, (1) OX, (3) Numbers 0 - 4			15 in	15 in	Brady	**9U899**	1
(10) Blank Placards (10 in Squares), (10) Characters Each of 0, 1, 2, 3, 4, Use No Water, Radiation, Oxy, Acid, Cor, Alk Symbols			10 in	10 in	Brady	**1UR98**	1
(10) Blank Placards, (10) 6 in Characters Each of 0, 1, 2, 3, 4, Use No Water, Radiation, Oxy, Acid, Cor, Alk Symbols			15 in	15 in	Brady	**3RY80**	1

Character	Character H	Overall H	Overall W	Brand	Item No.	Pkg. Qty.
Carded Numbers						
0	2 in	2 ¾ in	1 ¼ in	Brady	**4T734**	10
0	4 in	—	—	Brady	**5AH22**	10
1	2 in	2 ¾ in	1 ¼ in	Brady	**4T735**	10
2	2 in	2 ¾ in	1 ¼ in	Brady	**4T736**	10
2	4 in	4 ¾ in	3 in	Brady	**3AM10**	10
3	2 in	2 ¾ in	1 ¼ in	Brady	**4T737**	10
4	2 in	2 ¾ in	1 ¼ in	Brady	**4T738**	10
4	4 in	4 ¾ in	3 in	Brady	**4AD85**	10
Gothic Quik-Align Number Cards						
3	6 in	6 ¾ in	4 ½ in	Brady	**6DJ22**	10
Number Kits						
0	6 in	—	—	Brady	**6DJ19**	10
1	6 in	6 ¾ in	4 ½ in	Brady	**6DJ20**	10
2	6 in	6 ¾ in	4 ½ in	Brady	**6DJ21**	10
4	6 in	6 ¾ in	4 ½ in	Brady	**6DJ23**	10
Number Labels						
1	4 in	—	—	Brady	**5AX79**	10
3	4 in	—	—	Brady	**5AX42**	10

Cabinet Contents Signs

Magnetic signs attach to any steel cabinet and remove easily. Each sign has space to identify up to six chemicals; includes room for hazard rating using HMIG or NFR system, chemical name, and quantity for each item stored inside. Measure 15"H x 12"W.

8AAK2

Description	Mfr. Model	Item No.
HMIG Rating Sign	99189	**8AEC9**
NFR Hazard Rating Sign	30676	**8AAK2**

Corrosion

Environment

Exclamation Mark

Exploding Bomb

Flame

Flame Over Circle

Gas Cylinder

Health Hazard

Skull and Crossbones

GHS Pictogram Labels

Globally Harmonized System (GHS) labels identify physical, health, and environmental hazards in accordance with the Globally Harmonized System for classifying and communicating chemical hazards.

▶CHOOSE: Legend	COATED PAPER ½ in 1820/Pkg. Item No.	1 in 1120/Pkg. Item No.	4 in x 4 in 500/Roll Item No.
GHS Safety			
Corrosion	10X358	10X341	23J582
Environment	10X363	10X346	—
Exclamation Mark	10X361	10X344	23J585
Exploding Bomb	10X357	10X340	23J581
Flame	10X359	10X342	23J583
Flame Over Circle	10X355	10X338	23J579
Gas Cylinder	10X356	10X339	23J580
Health Hazard	10X360	—	23J584
Skull and Crossbones	10X362	10X345	23J586

▶CHOOSE: Legend	COATED PAPER ⅝ in, 39/Card Item No.	1 in, 16/Card Item No.	2 in, 4/Card Item No.	VINYL ⅝ in, 39/Card Item No.	1 in, 16/Card Item No.	2 in, 4/Card Item No.
Brady						
Corrosion	39F457	39F475	39F493	39F448	39F466	39F484
Environment	39F461	39F479	39F497	39F452	39F470	39F488
Exclamation Mark	39F460	39F478	39F496	39F451	39F469	39F487
Exploding Bomb	39F453	39F471	39F489	39F444	39F462	39F480
Flame	39F454	39F472	39F490	39F445	39F463	39F481
Flame Over Circle	39F455	39F473	39F491	39F446	39F464	39F482
Gas Cylinder	39F456	39F474	39F492	39F447	39F465	39F483
Health Hazard	39F459	39F477	39F495	39F450	39F468	39F486
Skull and Crossbones	39F458	39F476	39F494	39F449	39F467	39F485

▶CHOOSE: Legend	COATED PAPER 1 in, 250/Roll Item No.	1 in, 500/Roll Item No.	2 in, 250/Roll Item No.	2 in, 500/Roll Item No.	POLYESTER 1 in, 250/Roll Item No.	1 in, 500/Roll Item No.	2 in, 250/Roll Item No.	2 in, 500/Roll Item No.
Accuform								
Corrosion	38W891	38W892	38W928	38W929	38W889	38W890	38W926	38W927
Environment	38W908	38W909	38W944	38W945	38W906	38W907	38W942	38W943
Exclamation Mark	38W904	38W905	38W940	38W941	38W902	38W903	38W938	38W939
Exploding Bomb	38W887	38W888	38W924	38W925	38W885	38W886	38W922	38W923
Flame	38W879	38W880	38W916	38W917	38W877	38W878	38W914	38W915
Flame Over Circle	38W883	38W884	38W920	38W921	38W881	38W882	38W918	38W919
Gas Cylinder	38W895	38W896	38W932	38W933	38W893	38W894	38W930	38W931
Health Hazard	38W912	38W913	38W948	38W949	38W910	38W911	38W946	38W947
Skull and Crossbones	38W899	38W901	38W936	38W937	38W897	38W898	38W934	38W935

10X326

36D420

38W976

36D421

38W959

36D378

GHS/SDS Compliance Centers

- Each includes 1½" binder

Keep your HazCom 2012/Globally Harmonized System (GHS) documents organized and accessible to employees with highly visible display and storage. SDS (safety data sheet), Right to Understand (Know), and other markings reinforce your training and compliance messages.

Description	Legend	Language	Includes	H	W	D	Brand	Item No.
Plastic Mounting Board with Metal Pocket	Safety Data Sheets	English	(1) 1½ in Safety Data Sheet 3 Ring Binder	24 in	18 in	4 ½ in	GHS Safety	10X326
	Safety Data Sheets	English	(2) 1½ in Binders	36 in	24 in	4 ½ in	GHS Safety	10X325
Recycled Aluminum Board with Metal Pocket and Binder	Right To Understand	English	Center Board, SDS Binder	19 ¼ in	13 ½ in	4 ¾ in	Zing	36D416
	Right To Understand	English, Spanish	Center Board, SDS Binder-Bilingual	19 ¼ in	13 ½ in	4 ¾ in	Zing	36D419
	Right To Understand	English	Center Board, SDS Binder	23 ¼ in	27 ½ in	4 ¾ in	Zing	36D417
	Right To Understand	English, Spanish	Center Board, SDS Binder-Bilingual	23 ¼ in	27 ½ in	4 ¾ in	Zing	36D420
PVC Coated Wire Rack with Sign	GHS Global Harmonized System Information and SDS Center	English	3 in 3-Ring Poly Binder, Polyethylene Coated Wire Rack, A-Z Dividers, 36 in Metal Chain, Mounting Hardware, Polystyrene Center Board, (25) Polyethylene Document Protectors, (2) 2 in Metal Rings	24 in	18 in	5 in	Ability One	402A01
Aluminum Mounting Board with PVC Coated Wire Rack	Workplace Hazardous Material Information Symbols	English	Center Board, Basket, 1.5 in Binder	20 in	15 in	—	Accuform	38W976
Recycled Aluminum Board with Metal Pocket and (10) Booklets	Right To Understand	English	Center Board, SDS Binder, (10) Training Booklets	23 ¼ in	27 ½ in	4 ¾ in	Zing	36D418
	Right To Understand	English, Spanish	Center Board, SDS Binder-Bilingual, (5) English Training Booklets, (5) Spanish Training Booklets	23 ¼ in	27 ½ in	4 ¾ in	Zing	36D421
Recycled Plastic Board with Holder	SDS Safety Data Sheets - GHS Global Harmonized System	English	1.5 in SDS Binder, Binder Wall Holder, 10 x 14 in SDS STATION Plastic Wall Sign	11 ½ in	11 in	2 ¾ in	Zing	45L106
Aluminum Mounting Board with PVC Coated Wire Rack	SDS Information Center	English	Center Board, Rack, 1½ in dia Binder	20 in	15 in	—	Accuform	38W959
Plastic Mounting Board with Metal Pocket	S.D.S. Information Hazardus Products Information	English	Center Board, Binder	24 in	18 in	4 ½ in	GHS Safety	23J576
Recycled Stainless Steel Cabinet	SDS Safety Information	English	1 Recycled Aluminum Document Case, 1.5 in Binder, Stores up to 300 Sheets	12 in	14 in	—	Zing	36D378
Steel Cabinet with Magnetic Closure	SDS Safety Data Sheets Information Center	English	Cabinet, (2) 2/1-2 in Binders, Poster	22 ½ in	26 ½ in	5 in	Accuform	38W980

BRADY. ZING GHS AbilityOne PROGRAM SUPPLIER DIVERSITY ACCUFORM.

SDS Binders and Binder Holders

Binders keep safety data sheets (SDSs) protected and readily available to employees as a complement to training. Capacity: 1½" binders hold up to 300 sheets, 2½" up to 500, 3" up to 600.

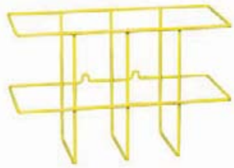
Description	Language	Brand	Item No.	
SDS Binders				
1½ in (Yellow) with Chain and (2) Sheet Lifters	English	Brady	39F501	
1½ in (Red)	English	ZING	36D422	*
1½ in (White) with A to Z Dividers	English	GHS Safety	10X332	
2½ in (Red)	English	ZING	36D423	*
3 in (Yellow) with Chain and (2) Sheet Lifters	English	Brady	39F502	
3 in (Red)	English	ZING	36D424	*
3 in (White) with A to Z Dividers	English	GHS Safety	41G465	
SDS Binders, Bilingual				
1½ in (Yellow) with Chain and (2) Sheet Lifters	English, Spanish	Brady	39F503	
1½ in (Red)	English, Spanish	ZING	36D425	*
2½ in (Red)	English, Spanish	ZING	36D426	*
3 in (Yellow) with Chain and (2) Sheet Lifters	English, Spanish	Brady	39F504	
3 in (Red)	English, Spanish	ZING	36D427	*
MSDS Binder, Large Size, with Chain and (2) Sheet Lifters	English	Brady	3ZM63	
MSDS Binder, Standard Size, with Chain and (2) Sheet Lifters	English	Brady	5U605	
3 in 3-Ring Poly Binder, Wire Rack, A-Z Dividers, 36 in Metal Chain, Mounting Hardware, (25) Polyethylene Document Protectors	English	Ability One	402A02	
3 in Binder (Yellow) with Chain and (2) Sheet Lifters	English	Brady	15Y928	
3 in Binder (Yellow)	English	Brady	E9249	
Binder (Yellow) with Chain	English	Accuform	45KY28	
Binder (Yellow) with Chain	English	Accuform	45KY30	
Binder Holder and Sheet Protectors				
Basket Binder Holder (Yellow), 9 in H x 14 in W x 4½ in D	—	Brady	5RB49	
Binder Holder (Yellow)	—	—	490X22	
Binder Holder (White)	—	—	490X23	
Sheet Protectors, Pkg. 10	—	Brady	9NU32	

** Made from 100% post-consumer recycled content.*

39F501

41G465

36D427



5RB49

BRADY. ACCUFORM. MARCOM

Right to Understand (Know) Compliance Centers and Training Booklets

Centers keep important documents easily accessible. 6G954 includes Hazard Awareness Chart on the holder with capacity to hold one binder.

Description	Legend	Language	Includes	H	W	D	Brand	Item No.
Right to Understand Compliance Centers								
Clear Acrylic Holder with Sign	Hazard Awareness Chart	English	Hazard Awareness Chart	14 ¼ in	12 in	2 in	Brady	6G954
PVC Coated Wire Rack with Sign	Safety Data Sheets	English	1.5 in SDS binder, "Right To Know Compliance Center" backboard, and Yellow Wire Rack	20 in	14 in	4 ½ in	Brady	39F498
	El Derecho De Saber El Cenro De Informacion	Spanish		20 in	14 in	4 ½ in	Brady	39F499
	Right-To-Know Compliance Center	English	Board and Binder Rack	20 in	14 in	4 ½ in	Brady	15Y933
	Right-To-Know Information	English	"Right-To-Know Information" backboard and Yellow Wire rack	20 in	14 in	5 in	Brady	8UP12
	Right to Know Center - Safety Data Sheet for Hazardous Materials/ Centro Derecho De Saber - Hojas De Datos De Seguridad Materiales Peligrosos	English, Spanish	Double Basket, (2) 1½ in SDS Binders	24 in	30 in	5 in	Accuform	45KY37
Steel Cabinet with Magnetic Closure	Right-To-Know Center Safety Data Sheets Hazardous Materials	English	Cabinet, Two Binders, Poster	22 ½ in	26 ½ in	5 in	Accuform	38W978
Right to Understand Training Booklets								
Paperback		English	(10) Books	8 ½ in	5 ⅜ in	—	Brady	5T282
		Spanish		8 ½ in	5 ⅜ in	—	Brady	3ZM65
		English	Booklet	2 in	12 in	12 in	Marcom	39F907

6G954

39F498

15Y933

38W978

BRADY.

SOP, Emergency, and OSHA Information Centers

Each includes a binder with coated wire holder. 3LY54 and 5RE38 feature polystyrene board and a 1½" attachable chain. Mounting hardware included.

Kit 3LY53 is complete with one pad each of OSHA 300A, 300E, and 3001E forms; poster board; and notice and V-style information signs.

Description	Item No.
SOP Center	3LY54
Emergency Procedures Center	5RE38
OSHA Record-Keeping Center	3LY53

3LY54

5RE38

3LY53

23Y052

24UZ34

BRADY

Die-Cut Number and Letter Sets

Self-sticking vinyl adheres to any clean or dry surface indoors or outdoors. Reflective vinyl provides high visibility. Nonreflective vinyl has permanent pressure-sensitive adhesive. Find individual numbers and letters on Grainger.com.

NUMBER SETS

23Y052 includes 50 numbers: 5 each of 0-9. 32ME05 includes 32 of 0 (zero). 32MF03 includes five of 0 (zero). 3XER4, 20TA82, and 14R093 include 250 numbers: 10 each of 0-9. 14R094 includes 150 numbers: 6 each of 0-9.

LETTER SETS

23Y048 includes 260 letters: 10 each of A-Z. 23Y057 includes 130 letters: 5 each of A-Z. 32MD89 and 35TA26 include 9 each of A-J, 8 each of K-T, 8 each of U-Z, and A, B, C, and E. 24UZ34 includes 5 cards of A-F, 5 cards of G-L, 5 cards of M-R, 5 cards of S-X, and 5 cards of Y-Z and A, B, C, E.

Character	Character H	Color	Item No.	Brand	Pkg. Qty.
Reflective Number Set					
0 Thru 9	3 in	Silver Gray	**23Y052**	—	1
Nonreflective Number Sets					
0	⅝ in	Black on Yellow	**32ME05**	Brady	1
0	3 ⅞ in	Black on Yellow	**32MF03**	Brady	1
0 Thru 9	1 in	Black on White	**3XER4**	Brady	25
0 Thru 9	1 in	Black on Yellow	**20TA82**	Brady	25
0 Thru 9	2 in	Black on Yellow	**14R093**	Brady	25
0 Thru 9	2 15⁄16 in	Black on Yellow	**14R094**	Brady	25
Reflective Letter Sets					
A Thru Z	2 in	Silver Gray	**23Y048**	—	1
A Thru Z	6 in	Silver Gray	**23Y057**	—	1
Nonreflective Letter Sets					
A Thru Z	1 in	Black on Yellow	**32MD89**	Brady	25
A Thru Z	1 15⁄16 in	Black on Yellow	**35TA26**	Brady	1
A Thru Z	2 15⁄16 in	Black on Yellow	**24UZ34**	Brady	1

Description	Character	Character H	Brand	Item No.
Aluminum Utility Panel (Characters not included)	Blank	1 15⁄16 in	Brady	**14R038**

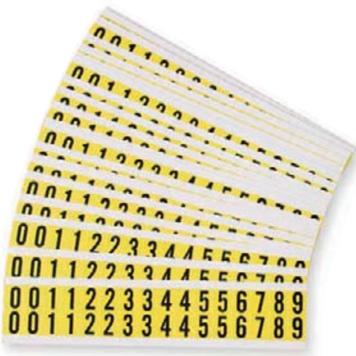
4T732

BRADY

Die-Cut Numbers and Letters

Matte-finish, pressure-sensitive vinyl with aggressive adhesive holds for years when applied to any clean, dry surface. Self-spacing, self-aligning, interlocking card sets with 2"H or 3"H black characters include 20 each of A, E, I, L, N, O, R, S, and T. 10 each of remaining letters, 20 each of numerals 0 to 9, 5 each of $, &, and punctuation. Quik-Align numbers and letters are designed for indoor or outdoor use.

Description	Item No.
Nonreflective Number and Letter Sets	
2 in H Characters	**4T732**
3 in H Characters	**14R040**
Replacement Characters, Pkg. of 10	
▶CHOOSE: 0 thru 9	**D4798**
▶CHOOSE: A thru Z	**D4799**
Arrow	**14R071**
$	**14R069**
&	**14R070**
Punctuation	**14R072**



4T731

BRADY

Card-Mounted Numbers and Letters

Self-sticking, black-on-yellow vinyl is easily removable. ¾"H x 9⁄16"W. 32 characters per card. 25 cards in kit.

Nonreflective Number Set—Includes 4 each of numbers 0, 1, 2, 3, 4, 5, and 2 each of numbers 6, 7, 8, and 9 on each card.

Nonreflective Letter Set—Each card includes 1 each of letters A to Z and a repeat of A to F.

Description	Item No.
Nonreflective Number and Letter Sets	
9⁄16 in H Number Set	**4T731**
9⁄16 in H Letter Set	**4T730**
Replacement Characters, 32 Per Card	
▶CHOOSE: 0 thru 9	**D4796**
▶CHOOSE: A thru Z	**D4797**

BRADY

Write-On Inspection Labels

Use pen or marker on polyester material labels. Adhesive backed. 1½"L x ⅝"H; 364 per pkg.

5MZ81

5MZ80

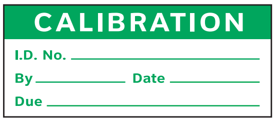
5MZ85

STRANCO

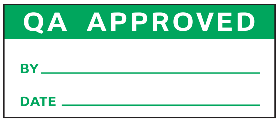
Self-Laminating Write-On Inspection Labels

Labels are ideal for exposure to rough use, abrasion, or chemicals. A clear self-laminating film seals in markings by pencil, pen, or marker. Polyester with acrylic adhesive backing. ⅝"H x 1½"W. 350 per pkg., 8ATY9 has 225 per pkg.

9M991

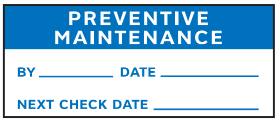


8AY04



8ATY6

8AXZ7



8ATY9 and 8NAT6

2CDY2

1F102

Steel Hand Stamps

Use to permanently mark tools, components, nonmetals, and various metals. Character and size are indicated on the thumb side. Impressions are Gothic letters. For manual (tempered stamping head) or mechanical use.

Letter sets contain 27 stamps: A to Z and an ampersand (&) symbol. Number sets include 9 stamps: 0 to 8 with 6 also serving as a 9.

Combo sets contain a complete set of both letters and numbers and are packed in a plastic case.

General-Purpose—For medium- and light-duty marking. Can be applied on soft and hard metals without heat treatment.

Heavy-Duty—Designed for deeper marking in industrial applications. Can be applied on soft and hard metals without heat treatment.

Premier Heavy-Duty—Feature larger shanks that require less force and create better impressions in industrial applications. Can be applied on soft and hard metals without heat treatment.

Low Stress Full Character— Designed for bold characters and light marking on soft metals and nonmetals.

Rhino Series—Largest shanks create excellent marks and require least force. Can be applied on soft and hard metals without heat treatment.

Low Stress Dot Design—Dot character design is suitable for bold characters and light marking on soft metals and nonmetals.

Cr-V Steel Plate—Deliver professional results and durability. Can imprint metals up to Rockwell C58 to C62 hardness.

Description	Shank Size Sq.	Shank L	Item No.
General-Purpose			
⅛ in Combo	¼ in	2 5⁄16 in	**2CDX9**
3⁄16 in Combo	5⁄16 in	2 ⅜ in	**2CDY1**
¼ in Combo	⅜ in	2 21⁄32 in	**2CDY2**
⅜ in Combo	½ in	2 13⁄16 in	**2CDY3**
Heavy-Duty			
3⁄32 in Numbers	5⁄16 in	2 ½ in	**1F102**
3⁄32 in Letters	5⁄16 in	2 ½ in	**1F103**
3⁄32 in Combo	5⁄16 in	2 ½ in	**1F110**
⅛ in Numbers	5⁄16 in	2 ½ in	**3W636**
⅛ in Letters	5⁄16 in	2 ½ in	**3W637**
⅛ in Combo	5⁄16 in	2 ½ in	**1F111**
3⁄16 in Numbers	⅜ in	2 11⁄16 in	**3W699**
3⁄16 in Letters	⅜ in	2 11⁄16 in	**3W638**
3⁄16 in Combo	⅜ in	2 11⁄16 in	**1F112**
¼ in Numbers	7⁄16 in	3 in	**3W639**
¼ in Letters	7⁄16 in	3 in	**3W640**
¼ in Combo	7⁄16 in	3 in	**1F113**
⅜ in Numbers	9⁄16 in	3 ⅛ in	**1F104**
⅜ in Letters	9⁄16 in	3 ⅛ in	**1F105**
Premier Heavy-Duty			
3⁄32 in Combo	5⁄16 in	2 ¾ in	**1F114**
⅛ in Numbers	⅜ in	2 ¾ in	**3W641**
⅛ in Letters	⅜ in	2 ¾ in	**3W642**
⅛ in Combo	⅜ in	2 ¾ in	**1F115**
3⁄16 in Numbers	7⁄16 in	2 ¾ in	**3W643**
3⁄16 in Letters	7⁄16 in	2 ¾ in	**3W644**
3⁄16 in Combo	7⁄16 in	2 ¾ in	**1F116**
¼ in Numbers	½ in	3 in	**3W645**
¼ in Letters	½ in	3 in	**3W646**
¼ in Combo	½ in	3 in	**1F117**
⅜ in Numbers	⅝ in	3 ⅜ in	**1F108**
⅜ in Letters	⅝ in	3 ⅜ in	**1F109**
Low Stress Full Character			
⅛ in Combo	⅜ in	2 ¾ in	**2CDY6**
¼ in Numbers	½ in	3 in	**2CDY8**
¼ in Letters	½ in	3 in	**2CDY7**
¼ in Combo	½ in	3 in	**2CDY9**
½ in Numbers	¾ in	4 in	**2CDZ4**
½ in Letters	¾ in	4 in	**2CDZ3**
Rhino Series			
⅛ in Letters	½ in	3 ⅛ in	**1EC12**
¼ in Numbers	⅝ in	3 ½ in	**1EC15**
¼ in Letters	⅝ in	3 ½ in	**1EC14**
Low Stress Dot Design			
⅛ in Letters	⅜ in	2 ¾ in	**2CDZ5**
¼ in Numbers	½ in	3 in	**2CDZ9**
¼ in Combo	½ in	3 in	**2CEA1**
⅜ in Numbers	⅝ in	3 ⅜ in	**2CEA3**
⅜ in Letters	⅝ in	3 ⅜ in	**2CEA2**
Cr-V Steel Plate			
1⁄16 in Combo	¼ in	2 7⁄16 in	**20Y596**
⅛ in Numbers	¼ in	2 ⅜ in	**20Y590**
3⁄16 in Numbers	5⁄16 in	2 ⅜ in	**20Y591**
3⁄16 in Letters	5⁄16 in	2 ⅜ in	**20Y584**
¼ in Numbers	⅜ in	2 21⁄32 in	**20Y592**
¼ in Letters	⅜ in	2 21⁄32 in	**20Y585**
5⁄16 in Combo	½ in	2 ¾ in	**20Y597**
⅜ in Numbers	½ in	2 13⁄16 in	**20Y594**
½ in Numbers	⅝ in	3 9⁄32 in	**20Y595**
½ in Letters	⅝ in	3 9⁄32 in	**20Y588**
½ in Letters, Round Dotted	⅝ in	4 in	**20Y501**

Steel Stamp Holder Kits

1F118

Make legible impression of a series of characters with one hammer blow. Use on a wide range of metal surfaces. ⅛" and 3⁄16" holders have 15-character capacity; ¼" holder has 12-character capacity. Letters/numbers/blank spaces must always equal holder's full capacity. Each kit includes 48 individual pieces: letters A to Z (2 each of A, E, R, O, S, I, U, and T), numbers 0 to 9, a dash, and 3 blank spaces.

Description	Item No.
⅛ in Character Kit	**1F118**
3⁄16 in Character Kit	**1F119**
¼ in Character Kit	**1F120**

Steel Hand Stamps

18G327

18G269

Make permanent marks on durable materials, including wood and many metals. Excellent for labeling tools, keys, machine components, and more. Rockwell hardness is 50C.

Machine-Made—General purpose stamps provide deep, clear impressions. One thumb groove. Letter sets contain 27 pieces: A to Z and a period. Number sets contain 9 pieces: 0 to 8. Combo sets contain 36 pieces: A to Z and 0 to 8.

Specialty—Locksmith-specific stamps each contain standard messaging identifying keys as "Master," or instructing to "Do Not Copy" or "Do Not Duplicate".

Symbols—Heavy-duty set includes commonly used symbols. All contain 5 pieces: arrow, plus sign, star, asterisk, and pound sign.

Description	Shank Size Sq.	Shank L	Item No.
Machine-Made			
1⁄16 in Letters	¼ in	2.375 in	**18G326**
1⁄16 in Numbers	¼ in	2.375 in	**18G327**
1⁄16 in Combo	¼ in	2.375 in	**18G328**
3⁄32 in Letters	¼ in	2.375 in	**18G329**
3⁄32 in Numbers	¼ in	2.375 in	**18G330**
3⁄32 in Combo	¼ in	2.375 in	**18G331**
⅜ in Letters	½ in	2.875 in	**18G332**
⅜ in Numbers	½ in	2.875 in	**18G333**
½ in Combo	½ in	2.875 in	**18G334**
Specialty			
1⁄16 in Master	7⁄16 in	3 in	**18G275**
3⁄32 in Do Not Copy	½ in	3 in	**18G278**
1⁄16 in Do Not Duplicate	½ in	3 in	**18G279**
3⁄32 in Do Not Duplicate	¾ in	3.75 in	**18G280**
Symbols			
1⁄16 in	¼ in	2.375 in	**18G267**
⅛ in	5⁄16 in	2.5 in	**18G269**
3⁄16 in	⅜ in	2.75 in	**18G270**
¼ in	7⁄16 in	3 in	**18G271**
5⁄16 in	½ in	3 in	**18G272**
⅜ in	9⁄16 in	3.125 in	**18G273**
½ in	⅝ in	3.375 in	**18G274**

Description	Item No.
Stamp Holder, Holds Shanks Up to ⅞ in Square	**18G259**

43Y643

Steel Letter and Numbers Hand Stamps

Use with a handheld hammer to permanently mark tools, components, locks, and various metals. Impressions are Gothic letters. Character and size are indicated on the thumb side. Each contains a complete set of letters and numbers, packed in a steel index box that can fit into tool boxes.

Standard are cost-effective stamps for general purpose use.

Premier stamps have large, tempered shanks to help provide extra safety under continuous hard hammering.

Reversed stamps provide raised markings on thin metal or forging dies, or in embossing and mold applications.

Low Stress designs produce minimum stress on marked metal. Meet U.S. DOE Nuclear Energy Standard RDT F 7-3T.

Impression Letter Type	Char. H	Shank Size Sq.	Shank L	Item No.
Standard	⅛ in	¼ in	2 ⅜ in	**21HT50**
	¼ in	⅜ in	2 ⅝ in	**43Y629**
	⅜ in	½ in	2 ¾ in	**43Y654**
Premier	⅛ in	5⁄16 in	2 ½ in	**36K460**
	¼ in	7⁄16 in	3 in	**36K462**
Reversed	⅛ in	⅜ in	2 ¾ in	**43Y644**
	¼ in	½ in	3 in	**43Y643**
Low Stress Round Face	⅛ in	⅜ in	2 ¾ in	**43Y624**
	¼ in	½ in	3 in	**43Y639**
Low Stress Dot Design	⅛ in	⅜ in	2 ¾ in	**43Y625**
	¼ in	½ in	3 in	**43Y640**

Find more Label Printers, Supplies, and Accessories on pages 367 to 373.

Label Printer Information

Label printers create messages and display information on labels and tags to convey safety information and identify equipment and supplies. Labels, ribbons, and ink fit into a compatible printer. Accessories keep printers in good working order.

PRODUCT TYPE:

Handheld label printers do not require a connection to a computer and can be carried to the jobsite.

Portable label printers are larger than handheld printers and are designed to be set on a work surface when printing. They do not require a connection to a computer and can be carried to the jobsite.

Desktop label and tag printers will produce a wider range of label and tag sizes than handheld and portable label printers and are often used for high-volume printing.

MODE OF OPERATION:

PC Connected—These printers require a connection to a computer. They often use software that utilizes templates to print labels with a consistent appearance.

Standalone—These label printers have a keyboard or keypad for entering information. They don't require a connection to a computer to print labels.

29YJ26

21U176

BRADY

BMP41 and BMP51 Handheld Label Printers and Accessories

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is 1 in
- Max. print speed of 1.3 in/sec
- Max. 250 labels per day

Printers are designed to withstand harsh environments, each have been 4 ft drop tested. Feature monochrome LCD display. Offer a manual cutter and a QWERTY keyboard. For use with continuous tapes and die cut labels. Built-in templates include Arrows, CLP/GHS, Datacomm, Electrical, Exit, Fire Safety, First Aid, Greek, Home Electrical, HSID, International, Laboratory, Mandatory, Miscellaneous, Packaging, Personal Protective Equipment, Prohibition, Public Info, Safety, Warning, and WHMIS. All include a printer, Brady WorkStation Basic Design Suite Download, indoor/outdoor vinyl labels, a hard case, and USB cable. Go to Grainger.com for a full list of components.

Application	Printer Series	Item No.
Handheld Label Printers		
Asset Tracking, Cable and Wire, Component and Equipment Labeling, Data and Telecommunications, Electrical, Facility Safety ID, General ID	BMP41	**29YJ26**
Cable and Wire, Component and Equipment Labeling, Facility Safety ID, Laboratory ID	BMP51	**21U176**
	BMP51	**21U174**
Handheld Label Printer Kits		
Component and Equipment Labeling, Facility Safety ID	BMP41	**20XX01**
	BMP41	**20XX04**
Cable and Wire, Component and Equipment Labeling, Facility Safety ID, Laboratory ID	BMP51	**21U178**
	BMP51	**21U179**
	BMP51	**21U177**
	BMP51	**21U180**
BMP41 Accessories		
Rechargeable Battery Pack		**29YJ27**
Magnet Accessory—Includes Magnet and (3)Attachment Screws		**29YJ28**
Hardsided Printer Case		**29YJ29**

Label Roll Cartridges for BMP41 and BMP51 Label Printers

BRADY

Ribbon Color	▶CHOOSE: Label Color	Material/ Finish	Label Type	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges with Aggressive Permanent Adhesive						
White	Clear	Vinyl/Gloss	Low Shrink	½ in	20 ft	**21U189**
White	Black		Low Shrink	½ in	25 ft	**21U194**
Black	Clear		Low Shrink	¾ in	20 ft	**H4304**
White	Clear		Low Shrink	¾ in	20 ft	**H4304**
White	Black, Blue, Green, Red		Low Shrink	¾ in	25 ft	**G5835**
Black	Orange, White, Yellow		Low Shrink	¾ in	25 ft	**G5835**
Red	White		Low Shrink	¾ in	25 ft	**G5835**
White	Clear		Low Shrink	1 in	20 ft	**29YJ69**
White	Clear		Low Shrink	1 ½ in	20 ft	**21U197**
White	Black, Blue, Green, Red		Low Shrink	1 ½ in	25 ft	**H4306**
Black	Orange, White, Yellow		Low Shrink	1 ½ in	25 ft	**H4306**
Red	White		Low Shrink	1 ½ in	25 ft	**H4306**
Continuous Label Roll Cartridges with Permanent Adhesive						
Black	White	Vinyl/Matte	Self-Laminating	¾ in	25 ft	**21U229**
Black	White		Self-Laminating	⅜ in	25 ft	**21U230**
Black	White		Self-Laminating	1 ¼ in	25 ft	**21U234**
Black	White		Self-Laminating	½ in	25 ft	**21U181**
Black	White	Polyester/Gloss	Ultra Thin	½ in	25 ft	**21U185**
Black	White	Nylon/Gloss	Cloth	⅜ in	16 ft	**21U211**
Black	White	Nylon/Matte	Cloth	½ in	16 ft	**21U212**
Black	White		Cloth	¾ in	16 ft	**21U219**
Black	White		Cloth	1 in	16 ft	**21U220**
Black	Yellow	Plastic/Gloss	Retroreflective	½ in	20 ft	**21U214**
Black	White		Retroreflective	½ in	25 ft	**21U215**
Black	White, Yellow		Retroreflective	¾ in	25 ft	**G5837**
Black	White, Yellow		Retroreflective	1 in	25 ft	**G5838**
Black	Yellow		Retroreflective	1 ½ in	25 ft	**21U233**
Black	White		Retroreflective	1 ½ in	20 ft	**21U235**

Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Roll Cartridges with Permanent Adhesive					
White	Polyester/Matte	¼ in	1¼ in	200	**21U188**
White		⅜ in	29/32 in	320	**21U207**
White		½ in	½ in	240	**21U182**
White	Vinyl/Matte	¾ in	½ in	360	**12X344**
White	Polyester/Matte	¾ in	29/32 in	320	**21U213**
White		29/32 in	29/32 in	280	**21U237**
White	Vinyl/Matte	2½ in	1½ in	80	**12X358**
Precut Label Roll Cartridges without Adhesive					
Black/White	Polyolefin/Matte	⅛ in	1 in	80	**12X378**
Black/White		3/16 in	1 in	80	**12X386**
Black/White		1 in	¼ in	80	**12X389**

793EU2

793EU3

BRADY

M211 Portable Bluetooth Label Printers

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone operation
- 203 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is ¾"
- Max. print speed of 0.6 in/sec
- Max. 100 labels per day
- Automatic cutter

Printers offer Bluetooth 5 Low Energy (class II) printer connectivity. Include the Brady Express Labels Mobile App software and a backlit display. Built-in label templates include Breaker Box, Flags, General, Patch Panel, Pipe Marker, Safety, Terminal Block, Wire Wrap. For use with continuous and die-cut labels. Use for data and telecommunications labeling, electrical labeling, general identification, lean and 5S labeling, warehouse marking, and wire and cable labeling applications.

Includes	Item No.
Portable Printer	
(1) AC Adapter (North America), (1) M21-750-499 Label Cartridge, (1) M211 Printer, (1) Quick Start Guide	**793EU2**
Portable Printer Kit	
(1) AC Adapter, (1) Belt Clip, (1) Hard Case, (1) M21-750-499 Label Cartridge, (1) M211 Printer, (1) Magnet, (1) Power Brick, (1) Quick Start Guide	**793EU3**

Find more Label Printers, Supplies, and Accessories on pages 367 to 373.

BRADY

BMP71 Portable Label Printers and Supplies

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC printer connectivity, includes USB cable
- 300 dpi printer head resolution
- Min. Label width is ¼"; Max. Label width is 2"
- Max. print speed of 1½ in/sec
- Prints up to 1,000 labels per day
- Manual Cutter

5UCU5

5UCU7

Feature built-in label design wizards, storage for over 100,000 label files, and rechargeable battery. Include over 400 label options and over 500 built-in symbols. Print 4 to 170 pt. text sizes. Offer automatic label formatting and QWERTY keyboard input method. For use with continuous tapes and die cut labels. **5UCU5** has a monochrome LCD display, **Kits** have a color LCD. **52AZ37 media adapter** is designed to let you use label cartridges from other Brady labeling systems, including older or discontinued models, with the BMP71 label printer. The label roll adapter can be used with BMP61 label tapes on pages 368 to 370. Find precut label rolls on pages 368 to 370 in the Electrical section and Grainger.com.

Application	Includes	Built-In Label Templates	Item No.
Portable Label Printer			
Barcode Labeling, Circuit Board ID, Facility Safety ID, General ID, Healthcare and Hospital, Industrial ID, Laboratory ID	M71-R6000 Black Ribbon, Roll of M71-31-423 White Die Cut Labels, Hardcase, Media Adapter, USB Cable	DataComm and General ID Labels, Electrical	5UCU5
Portable Label Printer Kits			
Barcode Labeling, Circuit Board ID, Facility Safety ID, General ID, Healthcare and Hospital, Industrial ID, Laboratory ID	Cleaning Card/Swab, Hard Case, M71-31-423 Die Cut Labels and/or M71C-2000-580-WT Labels, M71-R6000 Black Ribbon, Product CD, Quick Charger, TLS 2200/HANDIMARK Label Roll Adapter, USB Cable	DataComm and General ID Labels, Electrical	5UCU7
Cable and Wire, Data and Telecommunications, Facility Safety ID, Laboratory ID	(1) BMP71, (1) Glossy White Polyester Asset and Equipment Tracking Labels (M71-31-423), (1) Halogen Free Ribbon (M71-R6000), (1) Hard Case (M71-HC), (1) Media Adapter (M71-ADAPT-BK), (1) USB Cable (M-USB-103788), Brady WorkStation PWID Suite	Flags, Patch Panel, Terminal Block, Wire/Cable Wraps	60EX28
	(1) BMP71, (1) Glossy White Polyester Asset and Equipment Tracking Labels (M71-31-423), (1) Halogen Free Ribbon (M71-R6000), (1) Hard Case (M71-HC), (1) Media Adapter (M71-ADAPT-BK), (1) USB Cable (M-USB-103788), Brady WorkStation SFID Suite	Pipe Marker	60EX29

Description	Item No.
Accessories	
Printer Cleaning Kit - Includes (5) Each of Cleaning Cards and Swabs	5UCR3
USB Cable	12X336
Media Adapter, Pkg. of 3	52AZ37
Hardsided Printer Case	5UCT9
Rechargeable Battery Pack	5UCU0
Quick Battery Charger	5UCU4

Ribbon Width	Ribbon Length	Ribbon Formulation	▶CHOOSE: Ribbon Color	Item No.
Single Color Thermal Transfer Ribbon				
2 in	150 ft	Resin	White	5UCL2
2 in	150 ft	Resin	Blue, Green, Magenta, Red, Yellow	D9044
2 in	150 ft	Resin	Black	5UCT1
2 in	150 ft	Wax/Resin	Black	5EAW1
2 in	150 ft	Resin	Black	5EAW3
2 in	150 ft	Resin	Black	5WKX6
2 in	150 ft	Resin	Black	5WKX7

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges with Permanent Adhesive				
White	Nylon/Matte	1 in	30 ft	5WLD0
		1 29/32 in	30 ft	5WLD1
		½ in	30 ft	5WLD2
Continuous Label Roll Cartridges with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	1 in	30 ft	5WLE0
		1 29/32 in	30 ft	5WLE1
		½ in	30 ft	5WLE2
Continuous Label Rolls in Box with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	⅜ in	300 ft	5WLD8
		15/64 in	275 ft	5WLD9
Continuous Label Rolls with Aggressive Permanent Adhesive				
White	Polyester/Gloss	1 in	50 ft	5YRU3
		1 29/32 in	50 ft	5WKD3
		½ in	50 ft	5WKD6
		½ in	50 ft	5WKN6
		½ in	50 ft	5WKC9
	Polyester/Matte	⅜ in	50 ft	5YTE9
Black, Blue, Green, Orange, Red, White, Yellow	Polyester/Gloss	2 in	50 ft	G5709
Continuous Label Rolls with Removable & Repositionable Adhesive				
White	Vinyl/Semi-Gloss	⅜ in	30 ft	5YTD1
		15/64 in	30 ft	5WKD0
		5/16 in	30 ft	5WKD1
Continuous Label Roll with Permanent Adhesive				
Gray	Metallized Polyester/Matte	½ in	50 ft	5WKN7

BBP85 Desktop Label Printer and Supplies

BRADY

- Multi-color printing capability
- Uses thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min./Max. font size 4 to 640 pt.
- Min. Label width is 2"; Max. Label width is 10 in
- Max. print speed of 2 in/sec
- Max. 100 labels per day
- Automatic cutter

Printer has a color touchscreen display and a QWERTY keyboard. For use with continuous tapes and die cut labels. Features (11) international operating languages, 3 barcode symbologies, (300) symbols, DELETE, (8) label materials, automatic label setup, and hundreds of pictograms. Built-in label templates include Arc Flash, Custom Labels, General Templates, GHS/CLP, Gradient Scale, Pipe Marker, PreMade Labels, Right-to-Know, and WHMIS.

Application	Includes	Item No.
Desktop Label Printer		
Equipment ID, Warning Labeling	BBP85, Cleaning Kit, USB Cable, Brady WorkStation Safety & Facility Identification Software Suite	23MG27

▶CHOOSE: Ribbon Color	Ribbon Width	Ribbon Length	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbon				
Black, Blue, Green, Red, White, Yellow	6 ¼ in	200 ft	Resin	D9056
Black, Blue, Green, Red, White, Yellow	8 13/16 in	200 ft	Resin	D9005
Two-Color Thermal Transfer Ribbon				
Black/Green, Black/Orange, Black/Red, Black/Yellow	6 ¼ in	200 ft	Resin	D9006
Black/Green, Black/Red	8 13/16 in	200 ft	Resin	D9007
Black/Blue, Black/Green, Black/Red	6 ¼ in	200 ft	Resin	D9008
Black/Blue, Black/Green, Black/Orange, Black/Red, Black/Yellow	8 13/16 in	200 ft	Resin	D9009
Four-Color Thermal Transfer Ribbon				
Black/Blue/Green/Red, Black/Blue/Red/Yellow	6 ¼ in	200 ft	Resin	D9055
Black/Blue/Green/Red, Black/Blue/Orange/Red, Black/Blue/Red/Yellow	8 13/16 in	200 ft	Resin	D9011
Black/Blue/Red/Yellow	6 ¼ in	200 ft	Resin	D9012
Black/Blue/Green/Red, Black/Blue/Red/Yellow	8 13/16 in	200 ft	Resin	D9013

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Aggressive Permanent Adhesive				
Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	4 in	50 ft	D9018
Black, Blue, Green, Orange, Red, White, Yellow		6 in	50 ft	D9054
Blue, Green, Orange, Red, White, Yellow		7 in	50 ft	D9019
Black, Blue, Green, Orange, Red, White, Yellow		8 in	50 ft	D9021
Black, Blue, Green, Orange, Red, White, Yellow		10 in	50 ft	D9022
Clear, Orange, White, Yellow	Polyester/Gloss	4 in	50 ft	D9014
		6 in	50 ft	D9015
		7 in	50 ft	D9016
Clear, Orange, White, Yellow		10 in	50 ft	D9017
Continuous Label Rolls with Permanent Adhesive				
Silver	Polyester/Gloss	4 in	33 ft	3HGE1
		7 in	33 ft	1NK25
		10 in	33 ft	1NK29

BBP®85 Printer
23MG27

Blue
D9056

Black/Red/
Blue/Yellow
D9055

Find more Label Printers, Supplies, and Accessories on pages 367 to 373.

60KV21

60PX99

VnM SignMaker

VnM4 Pro and NEO-4x Desktop Label Printers and Supplies

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- 203 dpi printer head resolution
- Min. Label length is 1"; Max. Label width is 4 in

Use for small or medium custom signs and labels. Include a USB cable.

VnM4 Pro—Printer is easy to use plus offers 10 built-in templates including OSHA/ANSI, GHS, Lockout Tagout, RTK, and more. Includes starter supplies.

NEO-4x—Creates shelf and floor labels for OSHA/ANSI, 5S, and more quickly and easily. Includes Bartender UltraLite Label Design software. **Continuous and precut label rolls** are vinyl material.

Mode of Operation	Application	Max. Print Speed	Max. Lines of Print	Printer Series	Item No.
Desktop Label Printers					
PC Connected, Standalone	Facility Safety ID	2 to 8 in/sec	5	VnM4	**60KV21**
PC Connected	Aerospace, Automotive, Barcode Labeling, Cable and Wire, Data and Telecommunications, Facility Safety ID, Government, Industrial, Laboratory ID, Military, Marine Industries, OSHA/ANSI Labeling, 5S	2 in/sec	20	NEO-4x	**60PX99**

▶CHOOSE: Ribbon Color	Ribbon Width	Ribbon Length	Item No.
Single Color Thermal Transfer Ribbon			
Black, Blue, Green, Red, White	4 5/32 in	984 ft	**J2296**
Single Color Thermal Transfer Ribbon for Reflective Tape			
White	4 5/32 in	984 ft	**36UU11**

▶CHOOSE: Label Color	▶CHOOSE: Roll Width	Roll Length	Item No.
Continuous Label Rolls			
Black, Blue, Brown, Clear, Green, Gray, Orange, Red, White, Yellow	1 in	150 ft	**J2288**
	2 in	150 ft	**J2290**
	3 in	150 ft	**J2292**
	4 in	150 ft	**J2294**
Continuous Label Rolls with Permanent Adhesive			
Black, Blue, Green, Orange, Red, White, Yellow	1 in, 4 in, 2 in, 3 in	75 ft	**J1687**

▶CHOOSE: Label Type	Label Color	Label H	Label W	Item No.
Precut Label Rolls				
(1), (2), (3), or (4) Diamond Decals	White	2 in	3 in	**J5801**
	White	6 in	4 in	**J5802**

36UT30

VnM SignMaker

VnM8 Desktop Label Printer and Supplies

- Multi-color printing capability
- Uses thermal transfer print technology
- Barcode capable
- PC connectivity
- 300 dpi printer head resolution
- Min. Label length is 4"; Max. Label width is 9 in
- Max. print speed of 5 in/sec

Printer offers a monochrome LCD and QWERTY keyboard input method. For use with continuous and die-cut labels. Includes a USB cable. **Continuous label rolls** are vinyl material.

Application	Built-In Label Templates	Item No.
Desktop Label Printer		
Automotive, Barcode Labeling, Facility Safety ID	ANSI Signs, Arc Flash, Barcode, Chemical Labels, Header Signs, Pipe Marker, VnM8 Apps	**36UT30**

▶CHOOSE: Ribbon Color	Ribbon Width	Ribbon Length	Item No.
Single Color Thermal Transfer Ribbon			
Black, White	6 ½ in	984 ft	**J2310**
Black, White	8 9/16 in	984 ft	**J2309**
Single Color Thermal Transfer Ribbon for Reflective Tape			
White	6 ½ in	984 ft	**36UU14**
White	8 9/16 in	984 ft	**36UU20**

▶CHOOSE: Label Color	▶CHOOSE: Roll Width	Roll Length	Item No.
Continuous Label Rolls			
Black, Blue, Brown, Clear, Gray, Green, Orange, Red, White, Yellow	4 in	150 ft	**J2297**
Black, Blue, Clear, Gray, Green, Orange, Red, White, Yellow	5 in	150 ft	**J2299**
Black, Blue, Brown, Clear, Gray, Green, Orange, Red, White, Yellow	6 in	150 ft	**J2301**
Black, Blue, Gray, Green, Orange, Red, White, Yellow	7 in	150 ft	**J2303**
Black, Blue, Clear, Gray, Green, Orange, Red, White, Yellow	8 in	150 ft	**J2305**
Black, Blue, Brown, Clear, Gray, Green, Orange, Red, White, Yellow	9 in	150 ft	**J2307**
Continuous Label Rolls with Permanent Adhesive			
Black, Blue, Green, Orange, Red, White, Yellow	4 in	75 ft	**J2298**
Black, Red, White, Yellow	5 in	75 ft	**J2300**
Red, White, Yellow	6 in	75 ft	**J2302**
Blue, Red, White, Yellow	7 in	75 ft	**J2304**
Red, White, Yellow	8 in	75 ft	**J2306**
Blue, Red, White, Yellow	9 in	75 ft	**J2308**

40AW42

40AW43

BRADY

BBP35 and BBP37 Desktop Label Printers

- Multi-color printing capability
- Use thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min./Max. font size 4 to 250 pt.
- Min. Label width is ½"; Max. Label width is 4"
- Max. print speed of 5 in/sec
- Max. 600 labels per day

Printers have a color touchscreen display and a QWERTY keyboard. Built-in templates include Arc Flash, Circle Gauge, Custom Labels, General Templates, GHS/CLP, Gradient Scale, Pipe Marker, PreMade Labels, Right-to-Know, Tags, and WHMIS. For use with continuous tapes and die cut labels. Feature 240 MB memory, (664) symbols, (95) special characters, auto label set up, auto shut off, GHS/CLP, import fonts and graphics, linear and 2D barcode symbologies, plus QuickLabel. Both models include printer, cleaning kit, USB cable, and Brady WorkStation Safety & Facility Identification Software Suite.

Application	Cutter Type	Printer Series	Item No.
Desktop Label Printers			
Cold-Temperature Labeling, Equipment ID, Facility Safety ID	Automatic	BBP35	**40AW42**
	XY Cutter	BBP37	**40AW43**

Find more Label Printers, Supplies, and Accessories on pages 367 to 373.

54YN75

BRADY

BradyPrinter i3300 Desktop Label Printers

- Single color printing capability
- Use thermal transfer print technology
- Barcode capable
- PC connectivity
- 300 dpi printer head resolution
- Min./Max. font size 4 to 100 pt.
- Min. Label width is ¼"; Max. Label width is 4¼"
- Max. print speed of 4 in/sec
- Max. 3,000 labels per day
- Automatic cutter

Color touchscreen display and input method. For use with continuous tapes and die cut labels. Features automatic label formatting and indoor/outdoor label durability. Compatible with Brady WorkStation software.

Application	Includes	Built-In Label Templates	Item No.
Desktop Label Printer			
Asset Tracking, Barcode Labeling, Cable and Wire, Circuit Board Labeling, Component and Equipment Labeling, Data and Telecommunications, Electrical, Facility Safety ID, General ID, Hazard Communication ID, Laboratory ID	(1) Bradyi3300 with Wi-Fi (149552), Cleaning Kit, (1) Product CD with User Manual, (1) USB Cable	Not Applicable	**54YN75**
Desktop Label Printer Kits			
Barcode Labeling, Circuit Board Labeling, Data and Telecommunications, Electrical, Facility Safety ID, Hazard Communication ID, Inventory and Inspection Labeling, Laboratory ID	Cleaning Kit, (1) Product CD with User Manual, (1) USB Cable	Not Applicable	**54YN76**
Barcode Labeling, Cable and Wire, Circuit Board Labeling, Data and Telecommunications, Electrical, Facility Safety ID, Hazard Communication ID, Inventory and Inspection Labeling, Laboratory ID	Cleaning Kit, (1) Product CD with User Manual, (1) USB Cable	Custom Labels, Pipe Marker	**54YN77**

Label Roll Cartridges and Ribbon for BBP35, BBP37, i3300, and S3100

BRADY

▶CHOOSE: Ribbon Color	Ribbon Width	Ribbon Length	Ribbon Formulation	Item No.
Single Color Thermal Transfer Ribbon				
Black	4 5⁄16 in	200 ft	Wax/Resin	**6XGZ2**
Black	4 5⁄16 in	200 ft	Resin	**6XGZ4**
Black	4 5⁄16 in	200 ft	Resin	**21U479**
Black	4 5⁄16 in	200 ft	Resin	**21U478**
White	4 5⁄16 in	200 ft	Resin	**6XGZ3**
Black, Blue, Green, Orange, Red, White, Yellow	4 5⁄16 in	200 ft	Resin	**G8802**
Two-Color Thermal Transfer Ribbon				
Black/Red, Black/Yellow, Black/Blue, Black/Orange, Black/Green	4 5⁄16 in	200 ft	Resin	**J2589**
Four-Color Thermal Transfer Ribbon				
Black/Blue/Red/Yellow, Black/Blue/Orange/Red, Black/Blue/Green/Red	4 5⁄16 in	200 ft	Resin	**J2588**

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Aggressive Permanent Adhesive				
Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	Vinyl/Gloss	½ in	100 ft	**G8307**
Black, Blue, Brown, Clear, Green, Ochre, Orange, Pink, Purple, Red, Tan, White, Yellow	Polyester/Gloss	½ in	100 ft	**G8312**
Black, Blue, Brown, Clear, Gold, Gray, Green, Orange, Purple, Red, White, Yellow	Vinyl/Gloss	1 ⅛ in	100 ft	**G8308**
White, Yellow	Polyester/Gloss	1 ⅛ in	100 ft	**G8319**
Black, Blue, Brown, Clear, Green, Ochre, Orange, Pink, Purple, Red, Tan, White, Yellow	Polyester/Gloss	1 ⅛ in	100 ft	**G8313**
Black, Blue, Brown, Clear, Gray, Gold, Green, Orange, Purple, Red, White, Yellow	Vinyl/Gloss	2 ¼ in	100 ft	**G8309**
Black, Blue, Brown, Clear, Green, Gray, Orche, Orange, Pink, Purple, Red, Tan, White, Yellow	Polyester/Gloss	2 ¼ in	100 ft	**G8314**
White, Yellow	Polyester/Gloss	2 ¼ in	100 ft	**G8320**
White, Yellow	Vinyl/Gloss	3 in	100 ft	**G8311**
White	Polyester/Gloss	3 in	100 ft	**6UNE6**
Black, Blue, Brown, Clear, Gray, Gold, Green, Orange, Purple, Red, White, Yellow	Vinyl/Gloss	4 in	100 ft	**G8310**
Black, Blue, Brown, Clear, Green, Ochre, Orange, Pink, Purple, Red, Tan, White, Yellow	Polyester/Gloss	4 in	100 ft	**G8315**
White, Yellow	Polyester/Gloss	4 in	100 ft	**G8321**
Continuous Label Rolls with Permanent Adhesive				
Orange, Silver, Yellow	Gloss	1 ⅛ in	50 ft	**G8316**
Green	Polyester/Gloss	1 ⅛ in	50 ft	**6XHC9**
Orange, Silver, Yellow	Gloss	2 ¼ in	50 ft	**G8317**
Green	Polyester/Gloss	2 ¼ in	50 ft	**6XHD0**
Orange, Silver, Yellow	Gloss	4 in	50 ft	**G8318**
Green	Polyester/Gloss	4 in	50 ft	**6XHD1**
Continuous Label Rolls with Removable & Repositionable Adhesive				
White, Yellow	Vinyl/Gloss	½ in	100 ft	**G8323**
White, Yellow	Vinyl/Gloss	1 ⅛ in	100 ft	**G8324**
White, Yellow	Vinyl/Gloss	2 ¼ in	100 ft	**G8325**
White, Yellow	Vinyl/Gloss	4 in	100 ft	**G8326**
Continuous Label Rolls without Adhesive—Magnetic				
White	Polyester/Gloss	2 ½ in	25 ft	**6XHA7**
Yellow	Polyester/Gloss	2 ½ in	25 ft	**6XHA9**
White, Yellow	Polyester/Gloss	4 ¼ in	25 ft	**G8322**

BRADY

BradyPrinter S3100 Desktop Label Printer

- Single color printing capability
- Uses thermal transfer print technology
- Barcode capable
- Standalone or PC connectivity
- 300 dpi printer head resolution
- Min./Max. font size 4 to 250 pt.
- Min. Label width is ½"; Max. Label width is 4¼"
- Max. print speed of 3 in/sec
- Max. 600 labels per day
- Automatic cutter

Color touchscreen display with QWERTY keyboard. For use with continuous tapes and die cut labels. Includes (1) BradyS3100-W with Wi-Fi (S3100-W), cleaning Kit, (1) documentation holder, (1) network card, (1) stylus, (1) USB cable, and Brady WorkStation Safety & Facility Identification Software Suite. Built-in label templates Arc Flash, Custom Labels, General Templates, GHS/CLP, Pipe Marker, PreMade Labels, Right-to-Know, Tags, and WHMIS.

Application	Features	Item No.
Desktop Label Printer		
Component and Equipment Labeling, Electrical, Facility Safety ID, General ID, Hazard Communication ID	DELETE, 13 Different Materials, 16 Different Colors, 8 Print Ribbon Colors, Drag and Drop Technology, RTK and WHMIS Chemical Labels and Pipe Markers	**6XGX4**

BRADY

BradyJet J2000 Desktop Label Printers and Supplies

493P65

- Full color printing capability
- Use inkjet print technology
- Barcode capable
- PC connectivity
- 4,800 dpi printer head resolution
- Min./Max. font size 8 to 72 pt.
- Min. Label width is ¾"; Max. Label width is 4"
- Max. 3,000 labels per day
- Automatic cutter

Printers have a backlit display. Include ink cartridge, material roll for printhead alignment only, and USB Cable. Change ink cartridge in less than 10 seconds; change labels in less than 20 seconds. Offer a GHS built-in label template. For use with continuous tapes and die cut labels.

Application	Included Software	Max. Print Speed	Item No.
Desktop Label Printer			
Industrial Labeling, GHS and Chemical Labeling	Brady WorkStation Basic Design Suite	2.5 in/sec	**493P65**
Desktop Label Printer Kits			
Industrial Labeling, GHS and Chemical Labeling	BWS Lab Suite Software	4 in/sec	**493P66**
Facility Safety ID, General ID, Hazard Communication ID, Laboratory ID	Brady Workstation Laboratory Identification Suite	4 in/sec	**493P67**

Ink Color	Formulation	Item No.
Ink Cartridge Replacement		
Cyan, Magenta, Yellow	Liquid Ink	**493P68**

Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Rolls with Permanent Adhesive					
White	Vinyl/Matte	4 21⁄64 in	2 61⁄64 in	270	**493R01**
White	Vinyl/Matte	6 3⁄32 in	4⅛ in	200	**493R02**
White	Polyester/Matte	3 11⁄32 in	2 11⁄64 in	340	**493R03**
White	Polyester/Matte	4 21⁄64 in	2 61⁄64 in	270	**493R04**
White	Polyester/Matte	6 3⁄32 in	4⅛ in	340	**493R05**
White	Vinyl/Matte	3 11⁄32 in	2 11⁄64 in	340	**493P99**
White	Polypropylene/ Matte	1 in	1½ in	1,250	**493P95**
White	Polypropylene/ Matte	½ in	2 in	2,000	**493P86**
White	Polypropylene/ Matte	¼ in	2 in	2,000	**493P98**
White	Polypropylene/ Matte	3⅜ in	2 3⁄16 in	340	**56KH04**
White	Polypropylene/ Matte	4 5⁄16 in	2 15⁄16 in	270	**56KH07**
White	Polypropylene/ Matte	6⅛ in	4⅛ in	200	**56KH08**

Green
D9025

Yellow
D9027

13C786

BRADY

MiniMark Label Printer Ribbon Cartridges and Label Rolls

Fresh supplies keep your thermal transfer MiniMark printer on the job.

▶CHOOSE: Ribbon Color	Size (WxL)	Item No.	Pkg. Qty.
Single Color Thermal Transfer Ribbon Cartridges			
For MiniMark Printers			
Black, Blue, Green, Red, White	4 7/16 in x 290 ft	D9025	2
Black, White, Yellow	4 in x 290 ft	D9029	2

▶CHOOSE: Label Color	Material/ Finish	Roll Width	Roll Length	Item No.	Pkg. Qty.
Continuous Label Rolls with Aggressive Permanent Adhesive					
For MiniMark Printers					
Black, Blue, Green, Orange, Red, White, Yellow	Vinyl/Gloss	1 ⅛ in	110 ft	D9053	1
Black, Blue, Green, Orange, Red, White, Yellow		2 ¼ in	110 ft	D9027	1
Black, Blue, Green, Orange, Red, White, Yellow		4 in	110 ft	D9028	1
Black, Blue, Clear, Green, Red, White, Yellow		½ in	100 ft	D9026	1
Orange		1 ⅛ in	100 ft	13C805	1
Red		1 ⅛ in	100 ft	13C804	1
White		1 ⅛ in	100 ft	13C803	1
Yellow		1 ⅛ in	100 ft	13C802	1
Green		2 ¼ in	100 ft	13C797	1
White		2 ¼ in	100 ft	13C794	1
Yellow		2 ¼ in	100 ft	13C793	1
Green		4 in	100 ft	13C789	1
White		4 in	100 ft	13C786	1
Yellow		4 in	100 ft	13C785	1

Black/Yellow
F8477

4EE47

1ANB4

BRADY

IDXPERT and LABXPERT Label Roll Cartridges

Get the accessories you need to keep your thermal transfer printers working properly.

▶CHOOSE: Label Color	Material/ Finish	Label W	Roll Width	Roll Length	Item No.
Continuous Label Roll Cartridges with Aggressive Permanent Adhesive					
For IDXPERT and LABXPERT Label Printers					
Blue, White, Yellow	Vinyl/Gloss	½ in	½ in	30 ft	F8477
Blue, Clear, Green, Orange, Red, White, Yellow		1 in	1 in	30 ft	F8492
Blue, Green, Red, White, Yellow		1½ in	1 ½ in	30 ft	F8493
Blue		¾ in	19 mm	30 ft	14A450
Clear		¾ in	¾ in	30 ft	14A452
Red		¾ in	19 in	30 ft	14A453
White		¾ in	19 in	30 ft	14A455
Yellow		¾ in	19 in	30 ft	14A456

Label Color	Material/ Finish	Label H	Label W	Labels per Roll	Item No.
Precut Label Roll Cartridges with Permanent Adhesive					
For IDXPERT and LABXPERT Label Printers					
Black/White	Nylon/Matte	⅜ in	⅜ in	300	4EE41
		½ in	½ in	300	4EE42
For LABXPERT-KEY, XPERT-KEY Printers					
Yellow	Nylon/Matte	½ in	½ in	275	4EE39
		½ in	29/32 in	250	4EE40
For LABXPERT-KEY Printers					
Yellow	Polyester/Matte	29/32 in	29/32 in	350	4EE47
For LABXPERT Printers					
Yellow	Nylon/Matte	⅜ in	1 in	300	1ANB4

Red
D9031

Blue
F0285

Yellow
F9024

41F255

BRADY

GlobalMark Ribbon and Label Roll Cartridges

Supplies are freshly manufactured to keep your GlobalMark printer in service. **Two- and Four-Color Label Printer Cartridges** have a 8" L panels.

▶CHOOSE: Ribbon Color	Size (WxL)	Item No.
Single Color Thermal Transfer Ribbon Cartridges		
For GlobalMark 2 Industrial Label Maker		
Black, Blue, Cyan, Green, Orange, Red, White, Yellow	4 3/32 in x 200 ft	D9031
Two-Color Thermal Transfer Ribbon Cartridges		
For GlobalMark 2 Color and Cut Industrial Label Maker, GlobalMark 2 Multicolor Industrial Label Maker		
Green/Red, Black/Orange, Black/Red, Black/Yellow, Black/Blue, Black/Green	4 3/32 in x 200 ft	D9032
Four-Color Thermal Transfer Ribbon Cartridges		
Black/Blue/Orange/Red, Black/Blue/Green/Red, Black/Blue/Red/Yellow	4 5/16 in x 200 ft	D9034

▶CHOOSE: Label Color	Label Material/Finish	Roll Width	Roll Length	Item No.
Continuous Label Rolls with Aggressive Permanent Adhesive				
For GlobalMark Printers				
Black, Blue, Brown, Clear, Gray, Green, Orange, Purple, Red, White, Yellow	Vinyl/Gloss	½ in	100 ft	F0286
		1 ⅛ in	100 ft	F0285
		2 ¼ in	100 ft	F0284
Blue, Pink	Polyester/Gloss	2 ¼ in	100 ft	F0284
Black, Blue, Clear, Green, Orange, Red, White, Yellow		2 ¼ in	100 ft	F0288
White, Yellow	Vinyl/Gloss	3 in	100 ft	F9165
Black, Blue, Brown, Clear, Gray, Green, Orange, Purple, Red, White, Yellow		4 in	100 ft	F0283
Blue, Pink	Polyester/Gloss	4 in	100 ft	F0283
Black, Blue, Clear, Green, Orange, Red, White, Yellow		4 in	100 ft	F0287
Continuous Label Rolls with Removable & Repositionable Adhesive				
White, Yellow	Vinyl/Gloss	2 ¼ in	100 ft	F9024
		4 in	100 ft	F9025

Legend	Label Color	Material/ Finish	Label H	Label W	Item No.
Precut Label Roll Cartridges with Aggressive Permanent Adhesive					
For GlobalMark 2 Printers					
Blank	White	Vinyl/Gloss	4 in	6¼ in	41F249
Blank	Yellow		4 in	6¼ in	41F250
Caution (Picto)	White		4 in	6¼ in	41F253
Caution			4 in	6¼ in	41F254
Danger (Picto)			4 in	6¼ in	41F251
Danger			4 in	6¼ in	41F252
Notice			4 in	6¼ in	41F256
Warning (Picto)			4 in	6¼ in	41F255
For GlobalMark Printers					
Blank	Yellow	Vinyl/Gloss	2¼ in	3¼ in	41F242
Caution (Picto)	White		2¼ in	3¼ in	41F245
Caution	Yellow		2¼ in	3¼ in	41F246
Danger (Picto)	White		2¼ in	3¼ in	41F243
Danger			2¼ in	3¼ in	41F244
Notice			2¼ in	3¼ in	41F248
Warning (Picto)			2¼ in	3¼ in	41F247
Blank			2¼ in	3¼ in	41F241
Precut Tag Rolls without Adhesive					
Caution (Picto)	White	Polyester/Gloss	3¼ in	5¼ in	41F239
Danger (Picto)			3¼ in	5¼ in	41F237
Danger			3¼ in	5¼ in	41F238
Blank			5¾ in	3¼ in	41F240

Vocational Hands-On Training Systems

LEARNLAB

These panels allow students to learn, practice, and develop their job skills through this hands-on process. Each system includes hands-on training panels, student workbooks, printable PDF PowerPoint Presentations, and instructor guidebooks. For the engineering, maintenance, service, and technical fields.

Description	Item No.
Electrical Mechatronic Training	
Allen Bradley PLC Training System	52JR65
Allen Bradley VFD Training System	52JR67
Motor Controls Training System	52JR63
Electrical Wiring Training System	52JR68
Electrical Wiring Training System, PK 6	52JR93
Magic Motor Training System	52JR70
PLC Training System	52JR64
Portable Allen Bradley PLC Training System with Programmable Logic Controller	52JR84
Portable Allen Bradley VFD Training System with Variable Frequency Drive	52JR86
Portable Motor Controls Training System	52JR82
VFD Training System	52JR66
Lockout/Tagout Safety Training	
Lockout/Tagout Training System	52JR69
Portable Lockout/Tagout Training System	52JR87
Classroom Vocational Training Set with Allen Bradley & LOTO	52JR73
Wheeled Cart	
Training System Cart	52JR71

52JR65

52JR84

52JR87

Safety and Regulatory Compliance Training

MARCOM

DVD kits include DVD program, employee quiz, training certificate, 5 posters, and 30 employee booklets. DVD programs are packaged in a 3-ring binder with instructor's guide, DVD, reproducible scheduling and attendance forms, employee quiz, and training certificate.

Description	DVD KITS Item No.	DVD PROGRAMS Item No.
General Safety		
Accident Investigation	6GWF9	6GWJ1
Back Safety	—	3YLE1
Compressed Gas Cylinders	—	3YLE3
Crane Safety	—	6GWJ5
Driving Safety	—	3YLE5
Drug and Alcohol Abuse for Employees	3YKX4	3YLE7
Electrical Safety	—	3YLF2
Eye Safety	3YKZ1	3YLF8
Fall Protection	—	3YLG1
Industrial Fire Prevention	3YKZ7	3YLG3
Fire Prevention in Healthcare Facilities	—	6GWJ7
Fire Extinguishers	6GWH3	6GWK5
First Aid	—	3YLG7
Hand and Power Tool Safety	—	3YLG9
Hand, Wrist and Finger Safety	3YLA6	3YLH2
Dealing with Hazardous Spills	—	6GWJ6
Hazardous Materials Labels	6GWG7	6GWJ9
Heat Stress	—	3YLH4
Industrial Ergonomics	3YKY4	3YLF4
Ladder Safety	—	3YLH6
Machine Guard Safety	6GWG8	6GWK0
Material Handling Safety	3YLC3	3YLH8
General Safety (Cont.)		
Office Safety	—	3YLJ1
Rigging Safety	6GWG9	6GWK1
Safety Housekeeping and Accident Prevention	3YLC7	3YLJ3
Safety Orientation	3YLC9	3YLJ5
Safety Showers and Eye Washes	3YLD2	—
Slips, Trips & Falls	6GWH2	6GWK4
Welding Safety	6GWH4	6GWK6
Winter Safety	6GWH6	—
Workplace Harassment in the Office	—	6GWL0
Workplace Stress	—	6GWL1
Workplace Violence	6GWJ0	6GWL2
OSHA and DOT Compliance		
Asbestos Awareness	6GWL3	6GWN9
Bloodborne Pathogens in Commercial and Industrial	—	6GWP0
Confined Space Entry	3YKP7	6GXC2
DOT HAZMAT Safety Training	—	31AZ90
Forklift/Powered Industrial Truck Safety	3YKR1	6GWP1
OSHA Lead Standard for Industry	—	6GWR4
Lockout/Tagout	—	6GWP4
Personal Protective Equipment	—	6GWP9
Respiratory Safety	—	6GWR0

DVD Program
6GWP9

DVD Kit
6GWH3

Description	DVD KITS Item No.	DVD PROGRAMS Item No.
Construction Safety		
Eye Safety-Construction	—	6GWU6
Fall Protection-Construction	—	6GWU7
Hand & Power Tool-Construction	—	6GWU9
Heat Stress-Construction	—	6GWX1
Ladder Safety	—	6GWX2

Description	Item No.
HAZWOPER - DVD Program	
HAZWOPER - 40 Hr. Training	6GWZ1
Laboratory Safety - DVD Programs	
Compressed Gas Cylinders in the Lab	6GWZ6
Laboratory Hoods	6GWZ8
Safety Data Sheets in the Laboratory	39F941
Orientation to Lab Safety	6GXA0
Preventing Contamination in the Lab	6GXA3
Safety Showers and Eyewashes in the Lab	6GXA5
OSHA Formaldehyde	6GXA1

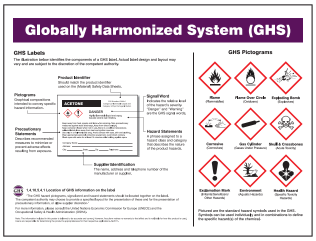
J.J. Keller & Associates, Inc. Since 1953 LABELMASTER GHS ACCUFORM.

Safety Training and Reference Materials

Materials are used to maintain regulatory compliance, help improve productivity, and ensure safe working conditions. They provide quick reference through new pictograms and a safety data sheet (SDS) format for physical, health, and environmental hazards required by the HazCom GHS system.

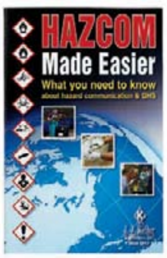
Book/Booklets—Provide information to help your employees navigate HazCom 2012/GHS's classification and labeling standards.

Posters and Wallet Cards—Easily convey the pictograms and safety data sheet (SDS) format for physical, health, and environmental hazards required by the HazCom Globally Harmonized System (GHS). Poster 45H627 includes a training card.



38W961

Description	Subject Matter	Language	H	W	Brand	Item No.	Pkg. Qty.
Book/Booklets							
GHS Instructor Guide		English	⅕ in	8 in	J.J. Keller	21EX09	1
GHS Handbook	Globally Harmonized System	English	8 ¼ in	5 ¼ in	J.J. Keller	21EX10	1
GHS Handbook		Spanish	8 ¼ in	5 ¼ in	J.J. Keller	21EX14	1
Posters							
Training Chart	Globally Harmonized System	English	11 in	8 ½ in	LabelMaster	45H627	1
Wall Chart		English	18 in	24 in	GHS Safety	10X328	1
Wall Chart	Chemical Safety	English	24 in	36 in	GHS Safety	10X329	1
Wall Chart		English	24 in	36 in	GHS Safety	10X327	1
GHS Poster	Global Harmonized System	English	17 in	22 in	Accuform	38W961	1
GHS Poster	Globally Harmonized	English	20 in	26 in	J.J. Keller	49VR98	1
GHS Poster	System Pictograms	English, Spanish	20 in	24 in	J.J. Keller	49VT01	1
Right To Know Safety Data Sheets Poster	Safety Data Sheets	English	22 in	28 in	Accuform	38W962	1
Wallet Cards							
GHS Wallet Card	Globally Harmonized System	English	4 ¼ in	3 ⅜ in	J.J. Keller	21EX11	10
Wallet Card		English	2 ½ in	3 ½ in	LabelMaster	45H629	25
Wallet Card	Chemical Safety	English	4 ¼ in	2 ½ in	GHS Safety	10X331	50



21EX10

10X331

Safety Training DVDs

MARCOM · J. J. Keller & Associates, Inc. Since 1953 · pig

Videos with computer graphics include a link to download printable tests and leader guides for training and compliance.

Description	Language	Brand	Item No.
Aerial Lifts	English	Marcom	31AZ78
Chemical/HAZMAT Training	English	J.J. Keller	490T92
Confined Space Entry	Spanish	Marcom	31AZ80
DOT HAZMAT General Awareness	English	Marcom	31AZ89
DOT HAZMAT Safety Training	English	Marcom	31AZ90
Fall Prevention and Protection	English	J.J. Keller	490U02
Forklift Safety	English, Spanish	J.J. Keller	490T98
HazCom	English	J.J. Keller	21EX07
Material Handling/ Lifting Safety	English	J.J. Keller	490T95
Personal Protection Equipment	English	Marcom	6GWY3
Scissor Lifts	English	Marcom	31AZ79
Scissor Lifts	Spanish	Marcom	31AZ81
Spill Response Training	English	Pig	45ZX31
Workplace Safety	English	Marcom	6GWH9

21EX07

45ZX31

Visit https://www.grainger.com/content/ehs-digital-solutions or contact your Grainger Representative to learn more about our safety management tools and courses and begin your subscription.

Grainger EH&S Digital Solutions

Get fast, easy solutions to manage, track, and maintain workplace environmental, health and safety activity from your computer. Designed to help reduce injuries, accidents, and associated costs. Tools include:

Learning Management System (LMS) for administering and tracking safety training and documents.

Specialized Online Training courses that meet current safety standards and regulations.

Safety Data Sheet (SDS) Management for site-specific SDS and Globally Harmonized System (GHS) requirements.

Safety Assessment and Compliance Monitoring platform with reports and smart forms for actionable findings and corrective recommendations.

Incident and Inspection Management software that monitors the complete life cycle of all incidents and provides insight into potential incidents.

Occupational Health Tracking of audiometric and pulmonary test data, as well as respirator medical clearance.

Description	Item No.
Learning Management, Training, and Templates	
Learning Management System—1 Administrator, 1 Year	20X166
Learning Management System—1 User, 1 Year	20X167
Unlimited Safety Training—1 User, 1 Year	5ZZZ2
Unlimited Video-Based Training—1 User, 1 Year	20X234
Unlimited DOT Training—1 User, 1 Year	5ZZY3
Specialized Online Training	
OSHA 10-Hour Construction Safety Training	5ZZZ6
HAZWOPER 8-Hour Refresher Training	5ZZZ5
OSHA 10-Hour General Industry Safety Training	5ZZZ7
OSHA 30-Hour Construction Safety Training	5ZZZ8
NFPA 70E Electrical Training, 5 Modules	5ZZZ9
Red Cross First Aid BBP Training	20X381
Red Cross CPR/AED Training	20X382
Red Cross FA, AED, CPR, BBP Training	20X383
Red Cross CPR/AED Blended Training	20X384
Red Cross FA, AED, CPR, BBP Blended	20X385
IOHSA AED/CPR Training	20X386
IOHSA FA, AED, CPR, BBP Infant Adult	20X387
IOHSA FA, CPR, BBP, AED	20X388
IOHSA FA/BBP Training	20X389
IOHSA AED Training	20X390
Specialized Online Training (Cont.)	
IOHSA Bloodborne Pathogen Training	20X391
Red Cross Train the Trainer	20X420
Severe/Life Threatening Bleed Training	20X421
Emergency Oxygen Administration Training	20X422
Active Violence/ Armed Intruder Training	20X423
SDS Management	
Standard SDS Vault—1 Administrator, 1 Site, 1 Year	20X236
Standard SDS Vault—Additional Administrator, 1 Year	20X237
Standard SDS Vault—Add 100 SDS Capacity	20X238
Safety Assessment & Compliance Monitoring	
Audit, General Industry—1 Site, 1 Year	20X303
Audit, College 0-5K Students—1 Site, 1 Year	20X239
Audit, College 5K-20K Students—1 Site, 1 Year	20X240
Audit, College over 20K Students—1 Site, 1 Year	20X241
Audit, C.C. 0-10K Students—1 Site, 1 Year	20X242
Audit, C.C. 10-50K Students—1 Site, 1 Year	20X243
Audit, C.C. over 50K Students—1 Site, 1 Year	20X244
Audit, Edu K-12, 1 District—1 Year	20X245
Audit, Edu K-12, 1 School—1 Year	20X246
Audit, Hospital, 100 Beds—1 Year	20X247
Safety Assessment & Compliance Monitoring (Cont.)	
Audit, Hospital, 250 Beds—1 Year	20X248
Audit, Hospital, 350 Beds—1 Year	20X249
Audit, Hospital, 500 Beds—1 Year	20X250
Audit, Hospital, 750 Beds—1 Year	20X251
Audit, Hospital, 1000 Beds—1 Year	20X252
Audit, Hospital, 1250 Beds—1 Year	20X253
Audit, Hospital, 1500 Beds—1 Year	20X254
Audit, Healthcare, 1 MOB—1 Year	20X255
Audit, Healthcare, 1 Practice—1 Year	20X256
Audit, Nursing Homes, 100 Beds—1 Year	20X257
Audit, Nursing Homes, 150 Beds—1 Year	20X258
Audit, Nursing Homes, 200 Beds—1 Year	20X259
Audit, Nursing Homes, 250 Beds—1 Year	20X260
AuditPRO, Life Sciences, 1 Site—1 Year	20X261
Incident and Inspection Management	
SPS Location Administrator—1 User, 1 Year	20X311
SPS Enterprise Administrator—1 User, 1 Year	20X314
SPS System Administrator—1 User, 1 Year	20X315
SPS Individual Access—1 User, 1 Year	20X313
SPS Group Access—1 Group, 1 Year	20X312
Occupational Health Tracking	
Respirator Medical Clearance—1 Evaluation	20X316
Audiogram Entry—1 Exam	20X317
PFT— Exam	20X318

Grainger Online Services are provided by Grainger Safety Services Inc., an affiliate of W.W. Grainger Inc.

BRADY

Visual Lockout Procedure Authoring Service

Maintain standards, compliance, and workplace safety with clear, machine-specific lockout/tagout instructions tailored to your facility. This service provides a complete set of the required written shut-down procedures for equipment in your facility.

How It Works

Brady field engineers gather machine-specific information and install color-coded energy tags on power sources at your site. The Type 1 procedures they produce have clear, step-by-step lockout instructions, equipment photos, and energy points, to help ensure employees can correctly and consistently lock out equipment to avoid unexpected electrical energization or startup.

What You Get

A binder of laminated point-of-use procedures, along with digital copies and a standardized template for ongoing updates to maintain compliance with Lockout Tagout Standard 1910.147.

Note: A separate Visual Lockout Procedure Installation Service is available; contact your Grainger Representative for more information.

Procedure Qty.	Item No.
40	20X092
80	20X109
120	20X110
300	20X111
500	20X112

BRADY Condor Master Lock

Circuit Breaker Lockouts

- Padlocks and lockout tags not included

Prevent accidental engagement of electrical circuits during maintenance.

Single-Pole Breaker Lockouts—Used to lock out circuit breakers with a standard toggle switch. Snap-on models work on breakers with holes in the side of the switch. Bar clamp or clamp-on models work on switches with or without holes. Use cleats with clamp-on lockout to assure positive restraint for breakers with long sliding switch throws.

Multipole Breaker Lockouts—For use on common trip circuit breakers that have two or more switches joined by a tie bar. 1D671 uses thumbwheel for secure fit on extra-wide range of breaker sizes. 3WNZ1 kit includes 1 Lockout Pouch, 1 Multipole Circuit Breaker, 1 No-Hole Circuit Breaker, 277V, 1 No-Hole Circuit Breaker, 480/600V, 1 Single-Pole Circuit Breaker, and 2 Lockout Tags.

Oversized Breaker Lockouts—Fit breaker switches up to 2¼" wide and ⅞" thick.

3-Phase Breaker Lockout—Works on single-, double-, and triple-pole circuit breakers. Fits over switch; no holes required. Tighten with screwdriver (not included) and secure with padlock.

DIN-Style Miniature Breaker Lockouts—Breakers are designed to mount to DIN rails. 3 styles; pin-in, pin-out, and tie bar. All pin-in and pin-out styles are used with single or multipole breakers. Pin-out style comes in standard and wide size. 2VU37 is used with multipole breakers that have a tie bar.

Circuit Breaker Lockouts—Properly lock all types of circuit breaker locations. Use 2XU96 for breakers that have a hole in the switch tongue. 2XU97 is for breakers that do not have a hole in the switch tongue. 2CJL3 Flexible Cable Shackle includes steel padlock with 5" steel cable. Numerous key changes minimize key duplication.

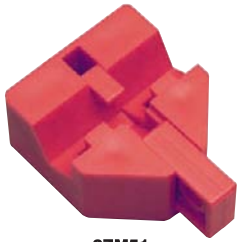
Blocking Bar Lockout—Installs to electrical panel in minutes. Use red arm to lock in Off position, or green bar to lock in On position. Includes two 4" L mounting rails, one 7⅗" L red blocking bar, one 7⅗" L green blocking bar, and 3 alcohol wipes.

Lockout Type	Circuit Breaker Voltage	Max. Shackle Dia.	Brand	Item No.	Pkg. Qty.
Single-Pole Breaker Lockouts					
Snap-On for Breakers 9/16 in W x 3/8 in L	120	9/32 in	Brady	**3TM51**	1
Snap-On for Breakers with Hole	120	9/32 in	Brady	**3T986**	6
Clamp-On Lockout with Screw	120/240	9/32 in	Condor	**48KV26**	1
Bar Clamp Lockout	120/240	9/32 in	Condor	**48KV12**	1
Clamp-On for Toggles up to 1/2 in W	120/277	9/32 in	Brady	**5TB12**	1
Clamp-On for Single-Pole	120/277	9/32 in	Brady	**3ZM49**	1
Clamp-On for Breakers 9/16 in W x 3/8 in L	120/277	9/32 in	Brady	**6T783**	1
Clamp-On for Tall Breaker Toggles	120/277	9/32 in	Master Lock	**1TDB1**	1
Clamp-On for Standard Tie Bars	120/277	9/32 in	Master Lock	**1TDB2**	1
Clamp-On Set, Includes 1 each of 1TDB1 and 1TDB2	120/277	9/32 in	Master Lock	**2CJK2**	1
Clamp-On for Single and Multi-Pole Breakers	120/277	9/32 in	Brady	**2AD54**	6
Clamp-On Breaker Lockout with Cleat	120/277	9/32 in	Brady	**15Y513**	1
Clamp-On for Breakers 9/16 in W x 3/8 in L	480/600	9/32 in	Brady	**6T784**	1
Clamp-On for Single and Multi-Pole Breakers	480/600	9/32 in	Brady	**1AZ01**	6
Clamp-On Breaker Lockout with Cleat	480/600	9/32 in	Brady	**15Y512**	1
Multipole Breaker Lockouts					
Bar Clamp Lockout	120/240	9/32 in	Condor	**48KV13**	1
Snap-On	120/277	9/32 in	Brady	**3ZM51**	1
Clamp-On	120/277	9/32 in	Brady	**6U839**	1
Clamp-On	120/277	9/32 in	Brady	**1D671**	6
Tie-Bar	120/277	9/32 in	Brady	**15Y515**	1
Circuit Breaker Lockout Kit	277/480/600	—	Brady	**3WNZ1**	1
Oversized Breaker Lockouts					
Clamp-On	480/600	9/32 in	Brady	**3TM33**	1
Clamp-On	480/600	9/32 in	Brady	**3TM25**	6
3-Phase Breaker Lockouts					
Clamp-On	120/277	9/32 in	Brady	**5TB13**	1
DIN-Style Miniature Breaker Lockouts					
Pin-In, Standard	120/277	9/32 in	Brady	**2VU33**	1
Pin-Out, Standard	120/277	9/32 in	Brady	**2VU32**	1
Pin-Out, Standard	120/277	9/32 in	Brady	**3WNX8**	6
Pin-Out, Standard	120/277	9/32 in	Master Lock	**4EMY6**	1
Pin-Out, Wide	120/277	9/32 in	Brady	**2VU35**	1
Pin-Out, Wide	120/277	9/32 in	Master Lock	**4EMY7**	1
Tie Bar	120/277	9/32 in	Brady	**2VU37**	1
Circuit Breaker Lockouts					
Snap-On Lockout with 2-ft. Nylon Cable	120	9/32 in	Brady	**2XU96**	1
Clamp-On Lockout with 2-ft. Nylon Cable	120	9/32 in	Brady	**2XU97**	1
Rail Lockout	120	9/32 in	Condor	**48KV15**	1
Flexible Cable Shackle with Padlock	120/277	9/32 in	Master Lock	**2CJL3**	1
Slide-On Lockout with VHB Industrial Bonding Tape	277/480/600	9/32 in	Condor	**48KV14**	1
Blocking Bar Lockout					
Breaker Panel	480/600	9/32 in	Brady	**3LY22**	1

3T986

48KV12

1TDB2


3ZM51

1D671

3WNZ1

3TM25

5TB13

2VU32

2VU37

2XU97

2CJL3
(Breaker Lockout Sold Separately)

3LY22

Scan. Order. Done.
Details on page A1.

48KV17

5T831

2AM71

6AP32

1TDB5

48KV18

5U715

2AF98

3PDD9

3PDE1

Electrical Lockout Devices

Universal Plug Lockouts—Accommodate various cord diameters and high- and low-voltage plugs.

Small/Large Plug Lockouts—Devices accept lock or nylon tie to prevent a plug from being inserted in a wall outlet. 3VAF2 can be used to lockout pneumatic male fittings attached to compressed air hoses.

Plug Prong Lockouts—Use with existing lockout padlocks or lockout hasps with built-in lock.

Cinch Sack Plug Lockouts—Designed for oversized, awkward, and hard-to-reach connections. Accommodate up to 6 padlocks.

Wall Switch Lockouts—Hinges open for unobstructed operation of switch.

Emergency Stop Safety Covers—Install over push/pull or twist/release emergency stops.

Push-Button Safety Covers—Completely cover button to prevent access.

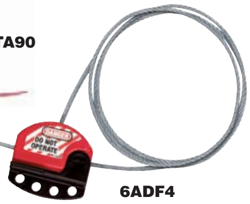
Fits	Padlock Shackle Max. Dia.	Color	Brand	Item No.
Universal Plug Lockouts				
Most 110 VAC Plugs with Cord Up to ½ in dia.	9/32 in	Red	Condor	**48KV17**
Most 110 VAC Plugs with Cord Up to 3½ in dia.	37/100 in	Yellow	Condor	**437R61**
Up to 1¾ in Dia. Cord and 2½ in L Plugs, 110/220V	31/100 in	Yellow	Brady	**5TB29**
Up to 3 in Dia. Cord and 5½ in L Plugs	¼ in	Yellow	Brady	**5T831**
20, 30 and 60A Metallic and Non-Metallic Pin & Sleeve, Hubbellock and Twist-lock Plugs	9/16 in	Yellow	Brady	**6T880**
Small/Large Plug Lockouts				
Up to ½ in Dia. Cord and 3 in L Plugs, 110V	9/16 in	Red	Brady	**2AM71**
Up to ½ in Dia. Cord and 3 in L Plugs, 110V	½ in	Red	Brady	**41F294**
Up to ¾ in Dia. Cord and 3¼ in L Plugs, 110/220V	9/16 in	Red	Master Lock	**3VAE3**
Up to ¾ in Dia. Cord and 6 in L Plugs, 220/500V	9/16 in	Red	Master Lock	**3VAE4**
Up to 1 in Dia. Cord and 2½ in L Plugs, 220/500V	9/16 in	Red	Brady	**2AF60**
Up to 2¾ in Dia. X 4¾ in L with 1 in Cord		Yellow	Brady	**6T858**
Up to 3½ in Dia. Cord and 5 in L Plugs	5/16 in	Red	Brady	**3VAF2**
Plug Prong Lockouts				
110/120 Volt Plugs	5/16 in	Red	Master Lock	**2CJN7**
2-or 3-Pronged Plugs	9/16 in	Red	Brady	**6AP32**
Cinch Sack Plug Lockouts				
Oversized Connections, 26 in H x 10 in Dia.	¼ in	Red	Master Lock	**3WPF5**
Oversized Connections, 17 in H x 6¼ in Dia.	¼ in	Red	Master Lock	**1TDB5**
Wall Switch Lockouts				
Rocker/Toggle and Flat Paddle Switches	9/32 in	Red	Condor	**48KV18**
Toggle/Paddle Switch	5/16 in	Red	Master Lock	**2CJK9**
Toggle Switch	9/32 in	Clear	Brady	**5U715**
Toggle Switch	9/32 in	Red	Brady	**15Y516**
Toggle Switch	9/32 in	Red	Brady	**2AF98** *
Emergency Stop Safety Covers				
IEC 20.5mm	3/16 in	Silver	Brady	**3PDD9**
NEMA 30.5mm	3/16 in	Silver	Brady	**3PDE4**
Push-Button Safety Covers				
IEC 20.5mm, Steel/Acrylic	3/16 in	Silver/Clear	Brady	**3PDE1**
NEMA 30.5mm, Acrylic	3/16 in	Clear	Brady	**3PDE5**
30.5mm and 22.5mm, Polycarbonate	5/16 in	Clear	Master Lock	**22A866**

** Pkg. of 6.*

5TB14

61DU19

5TA90


6ADF4

3ZG17

2CJN1

48KV19

Cable and Pneumatic Lockouts

Tab- and Grip-Cinching Cable Lockouts—Cable cinches tight to provide better security than chains. 3MT22 allows you to squeeze device to tighten cable, then insert your padlock to secure the handle. 5TA71 has a built-in loop to keep cable coiled for easy transport and storage.

Retractable Cable Lockouts—Self-winding mechanism automatically cinches the cable with the push of a button.

Adjustable Cable Lockouts—Flexible for use on side-by-side gate valve lockouts or multiple circuit breaker panels at the same time.

Pneumatic Lockouts—Isolate pneumatic devices without installing in-line lockout valves. No. 2CJN1 works with lockout hasps for multiple worker lockout.

Description	Cable L	Locking Holes	Padlock Shackle Max. Dia.	Brand	Item No.
Tab-Cinching Cable Lockouts					
3/16 in Dia. Vinyl Coated Steel	6 ft	6	9/32 in	Brady	**5TB14**
3/16 in Dia. Vinyl Coated Steel	10 ft	6	9/32 in	Brady	**5TB15**
Grip-Cinching Cable Lockouts					
⅛ in Dia. Galvanized Steel	6 ft	1	9/32 in	Brady	**3TM22**
⅛ in Dia. Nylon	8 ft	1	23/64 in	Brady	**61DU19**
3/16 in Dia. Vinyl Coated Steel	8 ft	4	9/32 in	Brady	**5TA71**
Cinch Only For 5TA71	No Cable	4	9/32 in	Brady	**5TA72**
Retractable Cable Lockouts					
1/16 in Dia. Vinyl Coated Steel	8 ft	6	9/32 in	Brady	**5TA69**
1/16 in Dia. Nylon	8 ft	6	9/32 in	Brady	**5TA90**
Adjustable Cable Lockouts					
⅛ in Dia., Polycarbonate	3 ft	4	9/32 in	Condor	**48KV10**
⅛ in Dia., Polycarbonate	6 ft	4	9/32 in	Condor	**48KV09**
⅛ in Dia., Polycarbonate	15 ft	4	9/32 in	Condor	**48KV11**
5/32 in Dia., Plastic/Steel	3 ft	4	5/16 in	Master Lock	**39L528**
5/32 in Dia., Plastic/Steel	6 ft	4	5/16 in	Master Lock	**6ADF4**
5/32 in Dia., Plastic/Steel	15 ft	4	9/32 in	Master Lock	**6ADF5**
Pneumatic Lockouts					
¼ in, ⅜ in, and ½ in Male Fittings	—	6	9/32 in	Brady	**3ZG17**
¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, 9/16 in, ⅝ in,and 13/16 in Male Fittings	—	2	9/32 in	Master Lock	**2CJN1**
(7) Openings Ranging From 9/32 in to ½ in dia.	—	1	9/32 in	Condor	**48KV19**
(7) Openings Ranging From 9/32 in to ½ in dia., Pkg. 6	—	1	9/32 in	Condor	**48KV20**

Condor BRADY Master Lock

Valve Lockouts

Gate Valve Lockouts—Fit most round-handle gate valves. Nonadherent plastic construction resists chemicals and hot/cold temperatures. Brady models' knockout feature accommodates OS&Y or "rising stem" gate valves.

Adjustable Ball Valve Lockouts—3TAP3, 2VU39, 3TAP1, and 3TAP2 can also be used to lock valves open on pipes from ½" to 1¼" dia. 4EMY9 lockout is suitable for tight locations near pipes.

Universal Ball Valve Lockout—Pouch-style with strapping and locking mechanism. Design removes handle and conceals valve stem, eliminating reactivation.

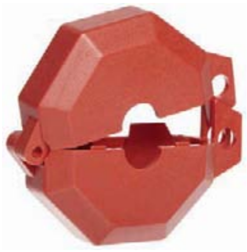
Standard Ball Valve Lockouts—Designed for locking out quarter-turn ball valves with flat "dog-leg" handles. 1-pc. devices fit all major brand ball valves.

Universal Valve Lockouts—Single device locks out most ball, butterfly, and gate valves. Industrial-grade steel and nylon construction is chemical- and corrosion-resistant.

Plug Valve Lockouts—Compact and easy to use, effective for difficult-to-secure plug valves. Fit most manually-actuated plug valves. Durable and tamper resistant.

Butterfly Valve Lockouts—Solvent- and chemical-resistant. Resist cracking and abrasion.

Gas Valve Lockouts—Protect against accidental valve opening. 2CJN2 fits all pressurized gas valves up to 3" dia. and works with valve guard in place.

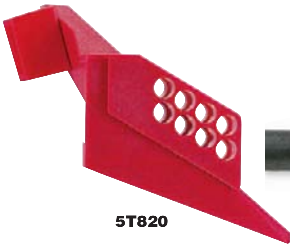


48KV21

2CJJ9

4EMY9

1TDA9



5T820

5TA88

4TWF7

41F336

2CJN2

Fits Handle Size	Max. Shackle Dia.	Max. No. of Padlocks	Color	Temp. Range	Brand	Item No.
Gate Valve Lockouts						
1 in to 2½ in	5⁄16 in	1	Red	0° to 250° F	Condor	**48KV21**
1 in to 2½ in	⅜ in	1	Red	-25° to 200° F	Brady	**3BC82**
1 in to 3 in	5⁄16 in	2	Red	-50° to 350° F	Master Lock	**2CJJ5**
1 in to 6½ in	5⁄16 in	4	Red	-13° to 194° F	Brady	**4VJ29**
1 in to 2½ in	5⁄16 in	2	Red	0° to 175° F	Brady	**3TAP4**
1 in to 2½ in	⅜ in	1	Yellow	-20° to 300° F	Brady	**15Y672**
2 in to 5 in	5⁄16 in	3	Red	-50° to 350° F	Master Lock	**2CJJ6**
2½ in to 5 in	5⁄16 in	3	Red	0° to 250° F	Condor	**48KV22**
2½ in to 5 in	⅜ in	1	Red	-25° to 200° F	Brady	**2AV57**
2½ in to 5 in	⅜ in	2	Red	0° to 175° F	Brady	**3TAP5**
2½ in to 5 in	⅜ in	1	Blue	-20° to 300° F	Brady	**15Y668**
2½ in to 5 in	⅜ in	1	Yellow	-20° to 300° F	Brady	**15Y673**
4 in to 6½ in	5⁄16 in	4	Red	-50° to 350° F	Master Lock	**2CJJ7**
5 in to 6½ in	5⁄16 in	3	Red	0° to 250° F	Condor	**48KV23**
5 in to 6½ in	⅜ in	1	Red	-25° to 200° F	Brady	**5AM43**
5 in to 6½ in	⅜ in	1	Red	0° to 175° F	Brady	**3TAP6**
6 in to 10 in	5⁄16 in	4	Red	-50° to 350° F	Master Lock	**2CJJ8**
6½ in to 10 in	⅜ in	1	Red	-25° to 200° F	Brady	**3AT46**
8 in to 13 in	5⁄16 in	4	Red	-50° to 350° F	Master Lock	**2CJJ9**
10 in to 13 in	⅜ in	1	Red	-25° to 200° F	Brady	**6AG81**
Adjustable Ball Valve Lockouts						
—	9⁄32 in	1	Red	-20° to 180° F	Condor	**48KV24**
—	9⁄32 in	1	Red	-20° to 180° F	Condor	**48KV25**
¼ in to 4 in	9⁄32 in	1	Red/Black	-70° to 350° F	Master Lock	**4EMY9**
½ in to 2½ in	⅜ in	4	Yellow	0° to 175° F	Brady	**3TAP3**
½ in to 2 in	9⁄32 in	4	Red	-40° to 200° F	Master Lock	**20JE32**
1 in to 2½ in	⅜ in	4	Red	0° to 175° F	Brady	**2VU39**
1 in to 2½ in	⅜ in	4	Blue	0° to 175° F	Brady	**3TAP1**
1 in to 2½ in	⅜ in	4	Green	0° to 175° F	Brady	**3TAP2**
2 in to 8 in	9⁄16 in	6	Blue	0° to 175° F	Brady	**3NRL7**
2 in to 8 in	9⁄16 in	6	Yellow	0° to 175° F	Brady	**3NRL9**
2 in to 8 in	9⁄16 in	6	Red	0° to 175° F	Brady	**3PDD1**
Universal Ball Valve Lockout						
⅜ in to 4 in	¼ in	5	Red	-40° to 250° F	Master Lock	**1TDA9**

Fits Handle Size	Max. Shackle Dia.	Max. No. of Padlocks	Color	Temp. Range	Brand	Item No.
Standard Ball Valve Lockouts						
—	9⁄32 in	8	Red	-40° to 248° F	Brady	**5T820**
—	9⁄32 in	1	Red	—	Master Lock	**20JE33**
—	9⁄32 in	1	Red	—	Master Lock	**20JE34**
—	5⁄16 in	0	Red	-40° to 194° F	Brady	**44ZL09**
—	5⁄16 in	0	Red	-40° to 194° F	Brady	**44ZL13**
¼ in to 1 in	⅜ in	6	Red	-30° F to 350° F	Brady	**3AD54**
1¼ in to 3 in	9⁄32 in	8	Red	-30° F to 350° F	Brady	**5T821**
1¼ in to 3 in	⅜ in	7	Red	-30° F to 350° F	Brady	**5AT47**
6½ in to 9½ in	⅜ in	2	Red	-40° to 302° F	Brady	**8CPV0**
10 in to 13 in	⅜ in	2	Red	-40° to 302° F	Brady	**8CRJ7**
Universal Valve Lockouts with 8-ft. Metal Cable						
1 in	9⁄32 in	1	Red	0° to 250° F	Brady	**5TA89**
1¾ in	9⁄32 in	1	Red	0° to 250° F	Brady	**5TA86**
Universal Valve Lockouts with 8-ft. Nylon Cable						
1 in	9⁄32 in	1	Red	0° to 250° F	Brady	**5TA87**
1¾ in	9⁄32 in	1	Red	0° to 250° F	Brady	**5TA88**
Plug Valve Lockouts						
⅞ in	⅞ in	1	Red	-25° to 200° F	Brady	**4TWF7**
15⁄16 in to 1⅜ in	1 ⅜ in	1	Red	-25° to 200° F	Brady	**4TWF8**
1¾ in to 2⅛ in	⅜ in	1	Red	-25° to 200° F	Brady	**4TWF9**
23⁄16 in to 2½ in	⅜ in	1	Red	-25° to 200° F	Brady	**4TWG1**
Butterfly Valve Lockouts						
⅛ in to 2½ in Thickness	19⁄64 in	4	Red	-20° to 140°F	Brady	**41F336**
2 in to 4 in Thickness	19⁄64 in	4	Red	-20° to 140°F	Brady	**41F337**
Universal	—	0	Red	-40° to 200°F	Master Lock	**20JE16**
Universal	5⁄16 in	4	Red	-40° to 200°F	Master Lock	**20JE17**
Gas Valve Lockouts						
1¼ in	⅜ in	1	Red	-50° to 350° F	Brady	**3NRN5**
3 in	5⁄16 in	2	Red	-50° to 350° F	Master Lock	**2CJN2**

Condor
BRADY

Lockout Safety Tags

1AJ28

48RU11

6T895

5T825

48RU17

Safety tags help prevent injuries by reducing the possibility of an unexpected startup when servicing a machine. They are commonly posted near machinery lockout points and they are also used to identify locked-out equipment and mark safety centers where equipment is stored. Tags feature a write on surface with a ⅜ in hole size. All tags have a black legend color. Equal number of nylon ties included with each package.

Legend	Reverse Side Legend	Material	Background Color	H	W	Brand	Pkg. Qty 10 Item No.	Pkg. Qty 25 Item No.	Pkg. Qty 100 Item No.
Do Not Energize This Lock/Tag May Only Be Removed By	Danger This Energy Source Has Been Locked Out Unauthorized Removal of This Lock/Tag May Result In Immediate Discharge Remarks	Plastic	Red, White	5 ¾ in	3 ¼ in	Condor	**48RU19**	**48RU20**	**48RU21**
Do Not Operate	Danger Do Not Remove This Lock/Tag Remarks	Plastic	Red, White	5 ¾ in	3 ¼ in	Condor	**48RU10**	**48RU11**	**48RU12**
Do Not Operate, Do Not Remove This Lock. It Is Here To Protect My Life - Name - Date	Do Not Remove This Tag Remarks___	Polyester	White	5 ¾ in	3 in	Brady	**1AJ28**	—	—
Do Not Operate Do Not Remove This Lock, It Is Here To Protect My Life	Danger Do Not Remove This Lock/Tag Remarks	Plastic	Red, White	5 ¾ in	3 ¼ in	Condor	**48RU13**	**48RU14**	**48RU15**
Do Not Operate This Lock/Tag May Only Be Removed By	Danger This Energy Source Has Been Locked Out Unauthorized Removal of This Lock/Tag May Result In Immediate Discharge Remarks	Plastic	Red, White	5 ¾ in	3 ¼ in	Condor	**48RU07**	**48RU08**	**48RU09**
	This Energy Source Has Been Locked Out! Only The Individual Who Signed The Reverse Side May Remove This Lock/Tag. Remarks	Polyester	White	5 ¾ in	3 in	Brady	—	**3VAV3**	—
	This Energy Source Has Been Locked Out! Unauthorized Removal Of This Lock/Tag May Result In Immediate Discharge. Remarks	Polyester	White	5 ¾ in	3 in	Brady	—	**6T895**	—
		Polyester	White	5 ½ in	3 in	Brady	—	**5T822**	—
		Polyester	Red, White	5 ½ in	3 in	Brady	—	**5T825**	—
Locked Out Do Not Operate This Lock/ Tag May Only Be Removed By	Danger This Energy Source Has Been Locked Out Unauthorized Removal of This Lock/Tag May Result In Immediate Discharge Remarks	Plastic	Red, White	5 ¾ in	3 ¼ in	Condor	**48RU16**	**48RU17**	**48RU18**
Locked to Protect Workman Repairing Machinery	Do Not Remove This Tag Remarks___	Polyester	White	5 ¾ in	3 in	Brady	—	**5T155**	—

1D711 and 6T736

5TB11 and 2VU43

1TAC6

5TB22

3ZM53

BRADY Master Lock ZING

3LY49

2CJK1

Electrical/Valve and Chain Lockout Kits

No. of Padlocks	Lock Type	No. of Components	Includes	Brand	Item No.
Electrical/Valve Lockout Kits					
2	Nylon	14	(1) ¾ in Blue Nylon Padlock, (1) 2 in Blue Nylon Padlock, (1) Red Aluminum Labeled Hasp, (1) 1 to 2½ in Adjustable Gate Valve Lockout, (1) Small Plug Lockout, (1) Small Ball Valve Lockout, (1) Universal Multiple Breaker Lockout, (1) 480/600V No-Hole Circuit Breaker Lockout, (1) Red Wall Switch Lockout, (5) Tags	Brady	**1D711**
Lockout Tagout Toolbox - Unfilled					
0	—	0	(1) Toolbox	Brady	**6T736**
Electrical/Valve Lockout Kits					
2	Steel	17	(2) Silver Steel Padlocks, (1) Mini Cable Lockout, (1) Large Valve Lockout, (1) Snap-On Breaker Lockout, (1) Clamp-On 120/277V Breaker Lockout with Cleat, (1) Clamp-On 480/600V Breaker Lockout with Cleat, (1) Multiple Breaker Lockout, (1) Oversized Breaker Lockout, (1) Plug Lockout 3-in-1, (1) Wall Switch Lockout, (1) Adjustable 1-6-1/2 in Gate Valve Lockout, (1) Adjustable 1-2-1/2 in Gate Valve Lockout, (1) Adjustable ¼-1 in Ball Valve Lockout, Belt Pouch, (2) Tags	Brady	**5TB11**
Lockout Tagout Duffle Bag - Unfilled					
0	—	0	(1) Duffel Bag	Brady	**2VU43**
Electrical/Valve Lockout Kits					
3	Nylon	21	(3) Red Nylon Keyed-Alike Padlocks, (3) 1 in dia Steel Jaw Hasps, (1) Cable Lockout, (1) 1 to 6½ in Adjustable Gate Valve Lockout, (1) Small Ball Valve Lockout, (1) 3 in Plug Lockout, (2) 120/277V Clamp On Breaker Lockout with Cleats, (1) 480/600V Clamp On Breaker Lockout with Cleat, (2) Universal Multiple Breaker Lockouts, (3) Tags, (3) Ties	Brady	**1TAC6**
2	—	22	(1) Mini Cable Lockout (50940), (1) Large Universal Valve Lockout w/ Blocking Arm (50899 and 65403), (1) 120V Snap-On Breaker Lockout (65387), (1) 120/277V Clamp-On Breaker Lockout (65396), (1) 480/600V Clamp-On Breaker Lockout (65397), (1) Universal Multi-Pole Breaker Lockout (66321), (1) Oversized Breaker Lockout (65329), (1) Cleat for 120/277V Clamp-On Lockout (65404), (1) Cleat for 480/600V Clamp-On Lockout (65406), (1) 3-In-1 Plug Lockout (PLO23), (1) Wall Switch Lockout (65392), (1) 1 in-6 ½ in Adjustable Gate Valve Lockout (64057), (1) 1 in-2 ½ in Gate Valve Lockout (65560), (1) ¼ in-1 in Ball Valve Lockout (65666), (1) Lockout Belt Pouch (51172), (1) Lockout Duffel Bag (99162), (2) Brady Safety Padlocks (99552), (1) Plug Valve Lockout for stem dia up to ⅞ in (113231), (1) Plug Valve Lockout for stem dia ⁹⁄₃₂ in - 13/8 in (113232), (2) Lockout Tags (65520)	Brady	**15Y544**
6	Thermoplastic	28	(1) 468L Handle-Off Device, (1) S3068 Device, (3) 420 Steel 1in jaw hasps, (3) 428 plastic hasps(1) 497A Do Not Operate laminated lockout tags 12-pack, Ball Valve Lockouts, Lockout Hasps	Master Lock	**780TE4**
3	Steel	51	(3) Blue Bumper Steel Padlocks, (1) Ball Valve Lockout, (1) Small Plug Lockout, (1) 1 in Steel Jaw dia Hasp, (1) 1½ in Steel Jaw dia Hasp, (1) 1 to 2½ in Adjustable Gate Valve Lockout, (1) 2½-5 in Adjustable Ball Valve Lockout, (1) Cable Lockout, (1) Wall Switch Lockout, (1) AC Voltage Detector Pen, (1) Large Electrical Plug Lockout, (2) No-Hole Pole Breaker Lockouts, (2) Multiple Breaker Lockouts, (1) Training Booklet, (14) Padlock Labels, (10) Tags, (10) Ties	Brady	**5TB22**
3	Steel	87	(1) 7 ½ inH x 14 inW x 8 inD Gray Polyethylene Carrying Case,(3) Blue Steel Padlocks, (3) 1 ½ in Steel Jaw dia Hasps, (2) Single Pole Electrical Breaker Lockouts, (3) Multiple Electrical Breaker Lockouts, (1) Large Electrical Plug Lockout, (1) 1 to 2 ½ in Gate Valve Lockout, (1) 2 ½ to 5 in Gate Valve Lockout, (1) Wall Switch Lockout, (1) Lockout Cable Device, (1) AC Voltage Detector Pen, (5) 3 x 5 in Stainless Steel inLockout Here in Signs, (5) 3 x 5 in Stainless Steel inLockout Before Servicing in Signs, (5) 5 x 7 in Stainless Steel inCaution This Machine Must Be Locked Out Before Doing Maintenance All Sources of Energy Must Be Locked In the Off or Safe Position De-energized or Block All Stored Energy in Signs, (1) Lockout Safety Training Book, (14) Padlock Identifiers, (20) Tags, (2) Nylon Cable Ties	Brady	**3ZM53**
Electrical Lockout Kits					
3	Aluminum	32	(3) 1.5 in Shackle Red Aluminum Padlocks, (3) Breaker Lockouts, Large Plug Lockout, Small Plug Lockout, 1 in-2.5 in Valve Lockout, (3) 1.5 in Steel Hasps, (10) Tags, (10) Cable Ties	Zing	**28AV86**
Chain Lockout Kits					
3	Steel	15	(1) 48 in Chain, (3) Red Padlocks, (3) 1½ in Steel Lockout Hasps, (3) Lockout Tags With Ties, (1) Blue Carrying Case	Brady	**3LY49**
3	Aluminum	17	(2) 4 ft x ³⁄₁₆ in dia Chains for Securing Valves or Other Machinery, (3) 1 ½ in Keyed-Alike Locks, (3) Hasps, (3) "Do Not Start" Vinyl Tags, (3) Cable Ties, (1) 4 ft x ³⁄₁₆ in dia Chain, (1) Copy of 29 CFR 1910.147, (1) Blue Case	Brady	**3WPJ2**
3	Steel	17	(2) 48 in Chain, (3) Red Padlocks, (3) 1½ in Steel Lockout Hasps, (3) Lockout Tags With Ties, (1) Red Carrying Case	Brady	**3WPJ3**
Gate Valve Lockout Kit					
—	—	—	Set: 480 - 484 (2CJJ5 - 2CJJ9)	Master Lock	**2CJK1**

5TB23

15Y562

15Y578

4HY64

4HY66

5U714

9KYX3

1TAC4

3WPA8

Lockout Kits

More lockout kits are available online, see Grainger.com®.

No. of Padlocks	Case Material	No. of Components	Includes	Brand	Item No.
Electrical Lockout Kits					
1	Plastic	6	(1) 1½ in Steel Hasp, (1) Padlock, (1) Single Pole Breaker Lockout, (1) Lockout Wallet Card, (1) Carrying Case, (1) Tag, (1) Tie	Brady	**5TB23**
1	Canvas	6	(1) Lockout Pouch, (50) inDanger in Tags, (1) Stopower Plug Hugger, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 1 in Lockout Hasp	Brady	**3WNZ4**
1	—	7	(1) Universal Multi-Pole Breaker Lockout (#66321), (1) 120/277V Clamp-On Breaker Lockout (#65396), (1) 480/600V Clamp-On Breaker Lockout (#65397), (1) 110V Electrical Plug Lockout, (1) 1 in Steel Lockout Hasp, (1) Lockout Pouch (#87943)	Brady	**3WNZ6**
1	—	7	(1) Red Safety Padlock, (1) Single Pole Lockout, (1) 277V No Hole Lockout, (1) 480/600V No Hole Lockout, (2) Tags, (1) Multi-Pole Lockout, (1) Pouch	Brady	**3WNY9**
1	Plastic	8	(1) Universal Multiple Circuit Breaker Lockout, (1) 277V No-Hole Breaker Lockout, (1) 480 600V No Hole Breaker Lockout, (2) 25 Pack inDanger in Tags, (1) 220/550V Plug Lockout with inDanger in Labels, (1) 1 ½ in Red Safety Padlock, (1) Tool Box	Brady	**3WNZ2**
1	Nylon	8	(1) 2 in Blue Steel Padlock, (1) Red Aluminum Labeled Hasp, (1) Universal Multiple Breaker Lockout, (1) 277V No-Hole Circuit Breaker Lockout, (1) Red Plug Lockout, (1) Nylon Pouch with Metal Belt Loops, (2) Tags	Brady	**6T737**
0	Nylon	8	(1) 120/277V Clamp-On Breaker Lockout w/cleat (65396), (1) 480/600V Clamp-On Breaker Lockout w/ cleat (65397), (1) Universal Multiple Breaker Lockout (66321), (2) 1 in Group Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Lockout Belt Pouch (51172)	Brady	**15Y562**
0	Polypropylene	10	(1) ½ in- 2 ½ in Small Ball Valve Lockout (BS07A), (1) 1 in- 2 ½ in Gate Valve Lockout (65560), (1) 120/277V Clamp-On Breaker Lockout w/ Cleat (65396), (1) Universal Multiple Breaker Lockout (66321), (1) Small 110V Plug Lockout (65674), (2) 1 in Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Small Lockout Toolbox (105905)	Brady	**15Y578**
2	Nylon	11	(1) 120/277V Clamp-On Breaker Lockout w/cleat (65396), (1) 480/600V Clamp-On Breaker Lockout w/cleat (65397), (1) Universal Multiple Breaker Lockout (66321), (2) 1 in Group Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Lockout Belt Pouch (51172), (1) Belt Pouch (51172), (2) Keyed-Alike Steel Padlocks	Brady	**15Y563**
2	Nylon	12	(1) Red Nylon Belt Pouch, (2) Red Nylon Keyed-Alike Padlocks, (2) 1 in Steel Jaw dia Hasps, (1) Universal Multiple Lockout, (1) 120/277V Clamp-On Breaker Lockout with Cleat, (1) 480/600V Clamp-On Breaker Lockout with Cleat, (2) Tags, (2) Ties	Brady	**1TAC5**
2	Nylon	12	(1) 120V Snap-On Breaker Lockout, (1) 120/277V Clamp-On Breaker Lockout, (1) 480/600V Clamp-On Breaker Lockout, (1) Universal Multi-Pole Breaker Lockout, (1) Oversized Breaker Lockout, (1) Cleat for 120/277V Clamp-On Lockout, (1) Cleat for 480/600V Clamp-On Lockout, (1) Lockout Belt Pouch, (2) Brady Safety Padlocks, (2) Lockout Tags	Brady	**15Y537**
2	Polypropylene	12	(1) ½ in- 2 ½ in Small Ball Valve Lockout (BS07A), (1) 1 in- 2 ½ in Gate Valve Lockout (65560), (1) 120/277V Clamp-On Breaker Lockout w/cleat (65396), (1) Universal Multiple Breaker Lockout (66321), (1) Small 110V Plug Lockout (65674), (2) 1 in Lockout Hasps (65375), (2) Heavy Duty Lockout Tags (65520) w/ Nylon Cable Ties, (1) Small Lockout Toolbox (105905), (2) Keyed-Alike Safety Padlocks	Brady	**15Y579**
3	Nylon	16	(3) Red Thermoplastic Keyed-Alike Padlocks, (1) Lockout Hasp, (12) Tags	Master Lock	**4HY65**
1	Nylon	19	(1) Red Thermoplastic Padlock 4FG03, (1) Breaker Switch Padlock 2CJL3, (1) 1 in Steel Jaw dia Hasp 1U177, (2) Standard Toggle Universal Circuit Breaker Lockout 1TDB2, (3) 1TDB2 Standard Toggle Universal Circuit Breaker Lockout, (2) 1TDB1 Tall and Wide Toggle Universal Circuit Breaker Lockout 1TDB1, (1) Red Zipper Pouch with 3 Separate Compartments, (12) Tags, and (12) Ties	Master Lock	**4HY64**
0	Polyethylene	19	(1) Mini Cable Lockout (50940), (2) 120V Snap-On Breaker Lockouts (65387), (2)120/277V Clamp-On Breaker Lockouts (65396), (2) 480/600V Clamp-On Breaker Lockouts (65397), (2) Universal Multi-Pole Breaker Lockouts (66321), (1) Oversized Breaker Lockout (65329), (2) Cleats for 120/277V Clamp-On Lockout (65404), (2) Cleats for 480/600V Clamp-On Lockout (65406), (1) 3-In-1 Plug Lockout (PLO23), (1) Wall Switch Lockout (65392), (1) Small Fuse Lockout (65690), (1) Large Fuse Lockout (65691), (1)Extra-Large Lockout Toolbox (LKX-TKLBOX)	Brady	**15Y552**
2	Polyethylene	21	(1) Red Nylon Pouch, (2) Red Nylon Padlocks (with 1 Key Each), (1) Mini Cable Lockout, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts with Cleats, (2) 480/600V Clamp-On Breaker Lockouts with Cleats, (2) Universal Multiple Breaker Lockouts, (1) Oversized Breaker Lockout, (1) 3-in-1 Plug Lockout, (1) Wall Switch Lockout, (1) Small Fuse Lockout, (1) Large Fuse Lockout, (2) Tags, (2) Ties	Brady	**5TA93**
3	Plastic	24	(1) Red/Black Plastic Lockable Carrying Case (Accepts up to 1¼ in Shackle), (1) 2CJL3 Circuit Breaker Padlock, (1) 1U177 1 in dia Steel Jaw Hasp, (1) 2CJJ2 Red Labeled Snap-On Hasp, (3) 1TDB2 Standard Toggle Universal Circuit Breaker Lockout, (2) 1TDB1 Tall and Wide Toggle Universal Circuit Breaker Lockout, (1) 2CJK9 Wall Switch Cover, (12) Tags, (3) Red Thermoplastic Keyed-Alike Padlocks	Master Lock	**4HY66**
4	Canvas	43	(1) Yellow Canvas Bag, (2) ¾ in Blue Steel Keyed Different Padlocks, (2) 2 in Blue Steel Keyed Differently Padlocks, (3) Red Aluminum Labeled Hasps, (1) Small Plug Lockout, (1) Large Plug Lockout, (6) Single Pole Breaker Switch Lockouts, (6) 277V No-Hole Circuit Breaker Lockouts, (6) Universal Multiple Breaker Lockouts, (6) Wall Switch Lockouts, (1) Large Plug Lockout, (1) Small Plug Lockout, (10) Tags	Brady	**6T864**
6	Plastic	45	(6) Red Thermoplastic Padlocks, (2) Circuit Breaker Padlocks, (1) Steel 1 Jaw dia Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Small Electrical Plug Cover (1) Large Electrical Plug Cover, (4) Standard Toggle Universal Circuit Breaker Lockout, (2) Tall and Wide Toggle Universal Circuit Breaker Lockout, (2) Wall Switch Covers, (24) Tags	Master Lock	**4HY67**
3	Polyethylene	47	(1) 7 inH x 12 inW x 5 inD Gray Polyethylene Case, (3) Blue ¾ in Padlocks, (3) 1½ in 12-Ga. Steel Hasps, (3) Single Pole Electrical Breaker Lockouts, (2) Multiple Electrical Breaker Lockouts, (1) Large Plug Lockout, (1) Lockout Training Booklet, (28) Padlock Stickers, (2) Padlocks, (10) Vinyl Tags, (10) Nylon Cable Ties	Brady	**5U714**
Standard Lockout Kits					
1	Nylon	6	(1) Nylon Belt Pouch, (1) Hasp, (1) Padlock, (2) Lockout Tags with Ties, (1) Information Card, (1) Lockout Key Chain	Brady	**9UP94**
2	Nylon	8	(2) Red Nylon Keyed-Alike Padlocks, (2) 1 in Steel Jaw dia Hasps, (2) Tags, (2) Ties	Brady	**1TAC4**
Valve Lockout Kits					
0	—	6	(2) Ball Valve Lockouts, (4) Round Valve Lockouts Fitting Handles 1 in to 10 in	Brady	**9KYX3**
3	Plastic	23	(3) Red Thermoplastic Keyed-Alike Padlocks, (1) Lockout Hasp, (1) Red Snap-On Hasp, (1) Adjustable Cable Lockout, (1) Gate Valve Cover for 1 to 3 in Handles, (1) Gate Valve Cover for 2 to 5 in Handles, (1) Gate Valve Cover for 4 to 6½ in Handles, (1) 1 in Steel Jaw Ball Valve Lockout, (12) Danger Tags, (1) Ball Valve Lockout Device	Master Lock	**3WPA8**
2	Plastic	29	(1) Safetee Donut 2.(5) 5 in, (2) 1 in Steel Lockout Hasps [T220], (1) Plastic utility box, (2) Laminated Steel Lock [Blue], (10) 7 in Red Cable Ties [44761], (1) Cable Lockout Device 6ft, (2) Ball Valve LO Small (Red), (10) Bilingual Tags	Brady	**3TCL4**
Lockout Bag					
0	Canvas	0	(1) Yellow Canvas Bag	Brady	**6T867**

5TA78

3ZM47

5TA80

3WPT5

5TA82

5TA84

BRADY

Lockout Boards

Store lockout/tagout devices. Choose from filled or unfilled lockout centers that can be customized for individual needs. Lockout stations have polycarbonate or recycled PETG board. All locks keyed different.

5-Lock Boards—Filled models include: 5 red nylon or steel body with steel shackle padlocks, 1 steel 1" jaw dia. hasp, 1 steel 1½" jaw dia. hasp, and 12 tags.

6-Lock Boards—Filled models include: 6 multicolor steel padlocks, 1 steel 1" jaw dia. hasp, 1 steel 1½" jaw dia. yellow hasp, and 10 tags with ties.

10-Lock Boards—Filled models include: 10 red nylon or steel body with steel shackle padlocks, 2 steel 1" jaw dia. red hasps, 2 steel 1½" jaw dia. red hasps, and 12 tags. 3WPT5 includes 10 steel ¾" blue shackle padlocks, 3 steel 1½"-dia. lockout hasps with epoxy coating, 25 vinyl safety lockout tags, and 25 ties.

20-Lock Boards—Filled models include: 20 red nylon or steel body with steel shackle padlocks, 2 steel 1" jaw dia. red hasps, 2 steel 1½" jaw dia. red hasps, and 24 tags.

36-Lock Boards—Filled models include: 36 red safety nylon or steel body with steel shackle padlocks, 3 steel 1" jaw dia. red hasps, 3 steel 1½" jaw dia. red hasps, and 36 tags.

No. of Components	Padlock Material	H	W	FILLED STATION Item No.	UNFILLED STATION Item No.
5-Lock Boards					
19	Nylon	11 ½ in	15 ½ in	**5TA78**	**5TA73**
19	Steel	11 ½ in	15 ½ in	**5TA79**	**5TA73**
6-Lock Boards					
18	Steel	14 in	14 in	**3ZM47**	**3AT98**
18	Steel	14 in	14 in	**3LY48** *	**3WPR9** *
10-Lock Boards					
26	Nylon	13 ½ in	13 ½ in	**5TA80**	**5TA74**
26	Steel	13 ½ in	13 ½ in	**5TA81**	**5TA74**
39	Steel	14 in	20 in	**3WPT5**	**3WPT6**
20-Lock Boards					
48	Nylon	23 ½ in	11 ½ in	**5TA82**	**5TA75**
48	Steel	23 ½ in	11 ½ in	**5TA83**	**5TA75**
36-Lock Boards					
78	Nylon	21 ½ in	23 ½ in	**5TA84**	**5TA76**
78	Steel	21 ½ in	23 ½ in	**5TA85**	**5TA76**

*** Bilingual—English and Spanish.***

2CJK4

3WPG2

2CJN5

3WPG3

2CJK8

Master Lock BRADY

Covered Lockout Stations

Filled lockout centers can be customized for individual needs. Semitransparent cover helps protect contents. All locks are keyed different. Master Lock models have a polycarbonate board and Brady models have a polypropylene board.

4-Lock Stations—Include: 4 padlocks, two 1"-dia. hasps, and 12 tags.

5-Lock Stations—Include: 5 padlocks, 4 group lockout hasps (two 1", two 1½"), and 5 reusable lockout tags with cable ties.

10-Lock Stations—2CJN5, 2CJK6, and 3WPC5 include: 10 padlocks, two 1" hasps, and 24 tags.

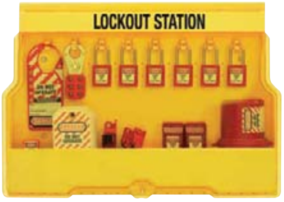
3WPG3 includes: 10 padlocks, 6 hasps (three 1", three 1½"), and 10 tags with cable ties.

20-Lock Stations—Include: 20 padlocks, four 1" hasps, and 48 tags.

No. of Components	Lock Type	H	W	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
4-Lock Stations						
	Aluminum	12 ¼ in	16 in	Master Lock	**2CJN4**	**2CJK3**
18	Thermoplastic	12 ¼ in	16 in	Master Lock	**3WPC7** *	**3WPC8** *
	Thermoplastic	12 ¼ in	16 in	Master Lock	**2CJK4**	**2CJK3**
5-Lock Stations						
14	Plastic	17 in	13 ¼ in	Brady	**3WPG2**	**15Y601**
10-Lock Stations						
	Aluminum	15 ½ in	22 in	Master Lock	**2CJN5**	**2CJK5**
36	Thermoplastic	15 ½ in	22 in	Master Lock	**2CJK6**	**2CJK5**
	Thermoplastic	15 ½ in	22 in	Master Lock	**3WPC5** *	**3WPC6** *
26	Plastic	17 in	13 ¼ in	Brady	**3WPG3**	**15Y601**
20-Lock Stations						
72	Thermoplastic	22 in	22 in	Master Lock	**2CJK8**	**2CJK7**
	Thermoplastic	22 in	22 in	Master Lock	**4EMZ3** *	—

*** Bilingual—English and Spanish.***

3WPR8



2CJL5

5TB17

2CJL8

3WPT1

3WPN8

15Y588

15Y585

Covered Lockout Stations

All lockout stations have a semitransparent lockable cover that helps protect contents.

No. of Padlocks	Padlock Material	No. of Components	Includes	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
Electrical Lockout Stations						
3	Steel	40	(1) Sign 10 in x 14 in, (1) Gray Wire Basket 2½ x 12¼ x 7½ in and Hardware, (1) Steel Rack with Mounting Hardware, Toolbox Kit Includes; (3) Laminated Steel Master Padlocks - Blue, (1) Single Booklet #2112, (3) 1½ in L/O Hasp, (2) Multi-Pole Breaker Lockout, (3) Breaker Lockout Single Pole, (1) Electrical Plug Lockout, 3-In-1, (10) Lockout Tags, (14) Lock Identifiers	Brady	3WPR8	5TB25
6	Thermoplastic	47	(6) Red Thermoplastic Padlocks, (8) Key Hooks, (1) 1 in Steel Jaw dia Hasp, (1) Red Labeled Snap-On Hasp, (1) Compact Plug Prong Lockout, (1) Large Plug Cover, (4) Standard Toggle Universal Circuit Breaker Lockouts, (2) Tall and Wide Toggle Universal Circuit Breaker Lockouts, (2) Wall Switch Covers, (5) Moveable Dividers, (24) Tags (24) Ties	Master Lock	2CJL5	2CJL4
Electrical/Valve Lockout Stations						
6	Nylon	25	(3) Red Nylon Padlocks, (3) Yellow Nylon Padlocks, (1) 1 in Steel Jaw dia Hasp, (1) 1½ in Steel Jaw dia Hasp, (1) 2½ to 5 in Valve Lockout, (1) 1 to 2½ in Valve Lockout, (1) Single Pole Breaker Lockout, (2) Multipole Breaker Lockouts, (1) Large Plug Lockout, (1) Small Plug Lockout, (10) Tags	Brady	5TB17	5TB18
6	Steel	25	(1) Adjustable Gate Valve Lockout, (1) All Purpose Cable Lockout, (1) Ball Valve Lockout, (1) 3 in 1 Plug Lockout, (2) 120/277V Clamp-On Breaker Lockouts With Cleats, (1) 480/600V Clamp-On Breaker Lockout With Cleat, (2) Universal Multipole Breaker Lockouts, (2) 1 in Group Lockout Hasps, (1) 1½ in Group Lockout Hasp, (6) Keyed Different Steel Padlocks, (6) Heavy Duty Reusable Lockout Tags With Nylon Cable Ties	Brady	15Y619	15Y610
6	Thermoplastic	57	(6) Red Thermoplastic Padlocks, (16) Key Hooks, (2) 1 in Steel Jaw dia Hasp, (1) Red Labeled Snap-On Hasp, (1) Adjustable Cable Lockout, (4) Gate Valve Lockouts (1 in to 10 in Valves), (2) Ball Valve Lockouts, (1) Compact Plug Prong Lockout, (1) Large Plug Cover, (6) Standard Toggle Universal Circuit Breaker Lockouts, (2) Tall and Wide Toggle Universal Circuit Breaker Lockouts, (2) Wall Switch Covers, (5) Moveable Dividers, (24) Tags, (24) Ties	Master Lock	2CJL8	2CJL7
6	Plastic	91	(3) Universal Circuit Breaker Lockouts, (2) Universal Wall Switch Lockouts, (2) Plug Lockouts, (2) Colored Valve Covers, (1) Ball Valve Lockout, (25) inDo Not Operate in Vinyl Tags, (6) Hasps, (50) Nylon Cable Ties, (3) 1¾ in Red Keyed-Differently Padlocks, (3) 1¾ in Yellow Keyed-Differently Padlocks	Brady	3WPN7	437R82
6	Plastic	94	(1) Lockout Tagout Station, 2 Keys, 3 Shelves, Box Includes; (50) 7 in Red Individual Cable Ties, (1) Ball Valve Lockout - Small Red, (6) 1½ in Lockout Hasp, (2) Safetee Donut 2½ In to 5 In, (2) Electrical Plug Lockout, 3-In-1, (1) Lockout Tagout Station, (3) Brady Safety Padlock 1.5 in KD Yellow, 1 Key, (3) Brady Safety Padlock 1.5 in Red, 1 Key, Plastic, (25) Prinzing Danger Tags	Brady	3WPT1	—
—	—	97	(3) Universal Circuit Breaker Lockouts, (2) Universal Wall Switch Lockouts, (2) Plug Lockouts, (2) Colored Valve Covers, (1) Ball Valve Lockout, (25) inDo Not Operate in Vinyl Tags, (6) Hasps (50) Nylon Cable Ties	Brady	3WPN8	—
—	—	98	(1) Lockout Tagout Station, 2 Keys, 3 Shelves, Box Includes; (1) OSHA Summary Sheet, (1) Ball Valve Lo - Small Red, (3) No Hole Breaker Lockout, (2) Electrical Plug Lockout, 3-In-1, (2) Safetee Donut 2½ In To 5 In, (6) 1½ in Lockout Hasp, (25) Danger Tags, (3) Wall Switch Lockout, (3) Multi-Pole Breaker Lockout, (50) 7 in Red Individual Cable Tie, (1) Lockout Miniposter	Brady	3WPT2	—
Electrical/Valve Lockout Stations and Group Lockout Boxes						
6	Plastic	26	(2) 3-in-1 Plug Lockouts, (1) Mini Cable Lockout, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multipole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) 1 in Group Lockout Hasps, (1) 1.5 in Group Lockout Hasps, (6) Keyed Different Safety Padlocks, (6) Lockout Tags, Nylon Cable Ties	Brady	15Y588	—
6	Plastic	30	(1) 120V Snap-On Breaker Lockout, (1) 120/277V Clamp-On Breaker Lockout, (1) 480/600V Clamp-On Breaker Lockout, (1) Universal Multi-Pole Breaker Lockout, (1) Oversized Breaker Lockout, (1) Cleat for 120/277V Clamp-On Lockout, (1) Cleat for 480/600V Clamp-On Lockout, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1)- 3-In-1 Plug Lockout, (1) 1 in-2 ½ in Gate Valve Lockout, (1) 1 in-6 ½ in Adjustable Gate Valve Lockout, (6) Brady Safety Padlocks, (12) Lockout Tags	Brady	15Y585	5TB18

3WPT3

5U713

1FYT6

3WPD4

15Y591

Lockout Stations

No. of Padlocks	Padlock Material	No. of Components	Includes	Brand	FILLED STATION Item No.	UNFILLED STATION Item No.
Standard Lockout Stations						
1	Steel	9	(1) Red Bumper Steel Padlock, (1) 1½ in Steel Jaw dia Hasp, (2) Tags, (5) Ties	Brady	**4XR10**	**4XR11**
4	Steel	16	(4) ¾ in Shackle Steel Padlocks, (10) Lockout Tags, (10) Ties, (1) 1½ in-dia Steel Lockout Hasp with Epoxy Coating	Brady	**3WPT3**	**3WPT4**
6	Steel	76	(6) Multicolor Steel Padlocks, (1) Pocket, (5) 1½ in Steel Jaw dia Hasps, (25) Lockout Safety Booklets, (20) Tags, (20) Ties	Brady	**5U713**	**15Y609**
Electrical Lockout Stations						
1	Nylon	4	(1) Blue Nylon Padlock, (1) Pocket, (1) Large Plug Lockout, (1) Tag, (1) Tie	Brady	**1FYT6**	—
1	Steel	5	(1) Red Bumper Steel Padlock, (1) Single Pole Breaker Lockout, (2) Multipole Breaker Lockouts, (1) Pocket, (1) Tag, (1) Tie	Brady	**3ZM48**	—
2	Thermoplastic	10	(2) Red Thermoplastic Padlocks, (2) Standard Toggle Breaker Lockouts, (2) Wide/Tall Toggle Breaker Lockouts, (3) Tags, (3) Ties	Master Lock	**3WPD4**	**3WPC9**
Electrical/Valve Lockout Stations						
—	—	26	All Purpose Cable Lockout with 8 ft Sheathed Cable, Large Universal Valve Lockout with Blocking Arm, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multi-Pole Breaker Lockouts, Oversized Breaker Lockout, (2) Cleats for 120/277V Clamp-On Lockouts, (2) Cleats for 480/600V Clamp-On Lockouts, Wall Switch Lockout, 110V Plug Lockout, 3-In-1 Plug Lockout, ¼ in to 1 in Ball Valve Lockout, 1¼ in to 3 in Ball Valve Lockout, (2) 1 in to 2½ in Gate Valve Lockouts, 1 in to 6½ in Adjustable Gate Valve Lockout and (2) Labeled Lockout Hasps	Brady	**35XM12**	**1FYT9**
18	Steel	68	(1) All Purpose Cable Lockout w/ 8 ft Sheathed Cable, (1) Large Universal Valve Lockout w/ Blocking Arm, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp-On Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multi-Pole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) Cleats for 120/277V Clamp-On Lockouts, (2) Cleats for 480/600V Clamp-On Lockouts, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 3-In-1 Plug Lockout, (1) ¼ in-1 in Ball Valve Lockout, (1) 1 ¼ in-3 in Ball Valve Lockout, (2) 1 in-2 ½ in Gate Valve Lockouts, (1) 1 in-6 ½ in Adjustable Gate Valve Lockout, (2) Labeled Lockout Hasps, (18) Brady Safety Padlocks, (25) Lockout Tags	Brady	**15Y591** *	—
18	Nylon	93	(18) Red Nylon Keyed-Different Padlocks, (5) Pockets, (2) Labeled Aluminum Hasps, (1) 8 ft Sheathed Cable, (1) Large Universal Valve Lockout, (2) 120V Snap-On Breaker Lockouts, (2) 120/277V Clamp on Breaker Lockouts, (2) 480/600V Clamp-On Breaker Lockouts, (2) Universal Multipole Breaker Lockouts, (1) Oversized Breaker Lockout, (2) 120/277V Clamp on Lockout Cleats, (2) 480/600V Clamp on Lockout Cleats, (1) Wall Switch Lockout, (1) 110V Plug Lockout, (1) 3-in-1 Plug lockout, (1) ¼ in to 1 in Ball Valve Lockout, (1) 1¼ in to 3 in Ball Valve Lockout, (2) 1 in to 2½ in Gate Valve Lockouts, (1) 1 in to 6½ ft Gate Valve Lockout, (25) Tags, (25) Ties, Extra Large Lockout Station	Brady	**1FYT8**	**1FYT9**
8	Aluminum	102	(2) 1½ in Blue Keyed-Different Aluminum Padlocks, (2) 1½ in Gold Keyed-Different Aluminum Padlocks, (2) 1½ in Green Keyed-Different Aluminum Padlocks, (2) 1½ in Red Keyed-Different Aluminum Padlocks, (1) 2½ in to 5 in Valve Cover, (1) Large Plug Lock, (1) Small Plug Lock, (50) Lockout Checklist Forms, (2) Hasps, (10) inDo Not Start in Vinyl Tags, (2) inDanger in Magnetic Signs, (25) Cable Ties, (1) Copy of OSHA Standard 1910.147	Brady	**3WPK7**	—

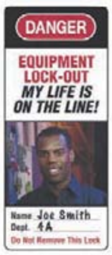
** Constructed of high postconsumer recycled materials.*

Padlock Lockout Labels

Labels help prevent injuries by reducing the possibility of an unexpected startup while someone is servicing a machine. They are typically posted on or near padlock lockout points, and also used to identify owners of lockout padlocks. All labels have an adhesive mounting style. Not retroreflective.

8A953

9HY44
(Padlock Sold Separately)



4ENF4

22A863
(Padlock Sold Separately)

3LTP2
(Padlocks Sold Separately)

Description	Sign Legend	Sign Header	Sign Material	Nominal Sign Size	Brand	Item No.	Pkg. Qty.
Horizontal Rectangle							
Lock Label	Do Not Remove This Lock	Danger	Vinyl	1 in x 5 in	Master Lock	**22A864**	50
Padlock Label	Do Not Remove This Lock	Danger	Plastic	¾ in x 5 in	Electromark	**8A953**	25
Padlock Label	Do Not Remove This Lock This Lock Belongs to Name ____ Dept ____	Danger	Polyester Laminate, Polypropylene	¾ in x 5 in	Badger Tag & Label Corp	**36RF02**	25
Padlock Label	Equipment Locked Out	Danger	Self-Laminating Vinyl	¾ in x 5 in	Electromark	**8REK1**	25
Padlock Label	Front, Do Not Remove This Lock, This Lock Belongs To, On Back	Danger	Vinyl	¾ in x 5 in	Brady	**6T791**	40
Padlock Label	SIDE 1: DANGER LOCKED OUT DO NOT REMOVE.,SIDE 2: PROPERTY OF: LOCK NO. DANGER LOCKED OUT. DO NOT REMOVE.	Danger	Vinyl	¾ in x 4 ½ in	Brady	**15Y662**	6
Padlock Label	This Lock to Be Removed Only By	Danger	Plastic	¾ in x 5 in	Electromark	**8A954**	25
Padlock Label	WARNING DO NOT REMOVE THIS LOCK. THIS LOCK BELONGS TO	No Header	Vinyl	10 in	Panduit	**9HY44**	25
Vertical Rectangle							
Padlock Identification Label	Danger	No Header	Vinyl	2 ¾ in x 1 ¼ in	Master Lock	**4ENF5**	6
Photo Identification Label	Equipment Lock Out My Life is On The Line Name: Dept: Do Not Remove This Lock	Danger	Vinyl	2 ⅜ in x 1 in	Master Lock	**4ENF4**	6
Photo ID Label	Name:___	Danger	Vinyl	1 ¼ in x 1 in	Master Lock	**22A863**	6
Write On Padlock Label	Equipment Lock Out My Life is On The Line Name: Dept: Do Not Remove This Lock	Danger	Vinyl	1 ¾ in x 1 in	Master Lock	**3LTP2**	28
Write On Padlock Label	Property of and Danger Locked Out Do Not Remove	Danger/Peligro	Vinyl	1 ¼ in x 1 in	Master Lock	**3LTP4**	49

48KV16 3PDD7 3LTL4 3ZG27 15Y607 4EMZ2

BRADY Condor Master Lock

Padlock Lock Boxes, Stations, and Cabinets

- Padlocks sold separately; see page 1954 and 1955

Plastic Lock Boxes—Clear acrylic window provides visual check of contents. Wall-mountable with predrilled holes. 5TB19 and 5TB20 include attached plastic hooks. 3PDE2 and 5TA68 feature built-in lock rail and snap-in key hooks.

Steel Lock Boxes—Brady models are tamper-resistant. Master Lock models are wall-mountable with a stainless steel handle. Lockout message on box is in English, Spanish, and French. All boxes feature a powder-coat finish.

Steel Stations—Plastic-coated 14-ga. steel construction.

Cabinets—Durable PVC cabinets are excellent for office environments. 3ZG26 includes pegs for 8 keys. 3ZG27 has 20 key hooks. 15Y607 is a lockable steel cabinet with 2 keys.

Padlock Caddy—Features ergonomic handle, belt slots, and lanyard for keys. Plastic construction.

Max. No. of Padlocks	Door Type	H	W	D	Color	Brand	Item No.
Plastic Lock Boxes							
3	Clear Acrylic	6 in	6 in	2 in	Red	Brady	**5TB19**
8	Hinged	6 in	4 in	5 ½ in	Red	Brady	**3PDE2**
10	Clear Acrylic	7 ½ in	12 in	2 ¾ in	Red	Brady	**5TB20**
16	Clear Acrylic	7 ½ in	8 ½ in	4 ¼ in	Red	Brady	**5TA68**
42	Hinged	13 in	13 in	3 ½ in	Red	Condor	**48KV16**
Steel Lock Boxes							
7	Sliding	7 in	8 in	2 ¼ in	Red	Brady	**3PDD7**
10	Clear Acrylic	6 in	15 in	3 in	Yellow	Brady	**5TB21**
12	Sliding	7 in	16 in	2 ¼ in	Red	Brady	**3WPH3**
12	Hinged	6 45/64 in	9 ½ in	3 13/16 in	Red	Brady	**44ZL14**
12	Hinged	6 in	9 ¼ in	3 ¾ in	Red	Master Lock	**4EMZ1**
13	Hinged	6 in	7 ⅜ in	9 ¼ in	Red	Brady	**5TA77**
13	Hinged	6 in	9 in	3 ½ in	Red	Brady	**1D677**
14	Steel	12 ¾ in	6 ⅜ in	3 ½ in	Yellow	Master Lock	**2CJL2**
14	Steel	12 ¾ in	6 ⅜ in	3 ½ in	Red	Master Lock	**2CJL1**
34	Hinged	9 in	15 in	10 ½ in	Red	Brady	**15Y531**
40	Hinged	6 in	9 in	3 ½ in	Blue	Brady	**35XM04**
50	Hinged	12 ½ in	7 ½ in	6 in	Red	Brady	**3PDE3**
Steel Stations							
4	—	2 ¼ in	3 in	1 ¼ in	Red	Brady	**5TB27**
8	—	3 in	6 ¼ in	1 ½ in	Red	Master Lock	**3LTL2**
22	—	3 in	17 ½ in	1 ½ in	Red	Master Lock	**3LTL4**
24	—	3 in	16 in	1 ¼ in	Red	Brady	**5TB28**
PVC Cabinets							
16	Lockable Clear Acrylic	15 in	15 in	3 ½ in	White	Brady	**3ZG26**
40	Lockable Clear Acrylic	30 in	15 in	3 ½ in	White	Brady	**3ZG27**
Steel Cabinets							
32	—	15 ½ in	18 in	2 in	Red/White	Brady	**15Y607**
Padlock Caddy							
12	—	8 in	5 ¼ in	1 in	Red	Master Lock	**4EMZ2**

2CJJ4 3PDD4 1U177 Blue J5049 15Y526 3BE93

Condor BRADY Master Lock

Lockout Hasps

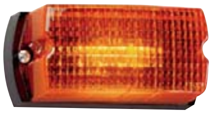
- Scissor-action hasps open and close similar to scissors
- Snap-on hasps push open then snap closed with spring-loaded locking arm

Lockout Hasps—Locking holes accommodate most standard lockout padlocks.

Labeled Hasps—Lock out power on line or equipment while displaying tagout message on writable, erasable surface.

Material	Hasp Type	Max. Shackle Dia.	Locking Holes	▶CHOOSE: Color	L	W	Brand	Item No.	Pkg. Qty.
Lockout Hasps									
Steel	Standard	⅜ in	6	Red	5 in	2 ⅜ in	Condor	**2CJJ4**	1
Steel	Scissor-Action	⅜ in	6	Red	5 in	2 ⅜ in	Brady	**15Y530**	1
Steel	Scissor-Action	⅜ in	6	Red	4 ½ in	2 ¾ in	Brady	**15Y533**	1
Steel/Spark-Resistant	Scissor-Action	5/16 in	6	Yellow	4 ½ in	1 ¾ in	Brady	**3PDD3**	1
Steel/Spark-Resistant	Scissor-Action	5/16 in	6	Yellow	5 in	2 ⅜ in	Brady	**3PDD4**	1
Steel/Spark-Resistant	Scissor-Action	⅜ in	6	Red	4 ½ in	1 ¾ in	Brady	**6T767**	12
Steel/Spark-Resistant	Scissor-Action	⅜ in	6	Red	5 in	2 ⅜ in	Brady	**6T768**	12
Polyester-Coated Aluminum	Scissor-Action	⅜ in	6	Red	4 ½ in	2 ¾ in	Brady	**15Y521**	1
Polyester-Coated Aluminum	Scissor-Action	⅜ in	6	Red	5 in	2 ⅜ in	Brady	**15Y522**	1
Steel	Snap-On	⅜ in	6	Red	4 ½ in	1 ¾ in	Condor	**1U177**	1
Steel	Snap-On	⅜ in	6	Red	4 ½ in	1 ¾ in	Master Lock	**40CL93**	1
Steel	Snap-On	⅜ in	6	Red	5 in	2 ⅜ in	Condor	**5T591**	1
Aluminum/Spark-Resistant	Snap-On	⅜ in	6	Red	4 ⅜ in	1 ½ in	Condor	**2CJH7**	1
Aluminum/Spark-Resistant	Snap-On	⅜ in	6	Red	4 ⅞ in	2 in	Condor	**2CJH8**	1
Aluminum/Spark-Resistant	Snap-On	⅜ in	6	Red	4 ⅜ in	1 ½ in	Master Lock	**40CL91**	1
Aluminum/Spark-Resistant	Snap-On	⅜ in	6	Red	4 ⅞ in	2 in	Master Lock	**40CL92**	1
Nylon	Snap-On	5/16 in	6	Red	6 ⅞ in	1 ⅝ in	Master Lock	**4EMY3**	1
Nylon	Snap-On	⅜ in	6	Orange	7 ¼ in	1 ¾ in	Brady	**15Y527**	1
Labeled Lockout Hasps									
Aluminum	Snap-On	5/16 in	6	(1 Each) Blue, Gold, Green, Red, Silver	7 ¼ in	3 in	Brady	**6T443**	5
Aluminum	Snap-On	5/16 in	6	Blue, Gold, Green, Silver	7 ¼ in	3 in	Brady	**J5050**	5
Anodized Aluminum	Snap-On	5/16 in	6	Blue, Gold, Green, Silver	7 ¼ in	3 in	Brady	**J5049**	5
Anodized Aluminum	Snap-On	5/16 in	6	(1 Each) Blue, Green, Gold, Red, Silver	7 ¼ in	3 in	Brady	**15Y526**	5
Zinc-Plated Steel	Scissor-Action	5/16 in	6	Red	5 ½ in	3 ⅜ in	Brady	**3BE93**	5

5WF88


4RM44

3T947

4A964

4A965

3TCV1

48Z708

2KFD1

5T588

45TP08

35ZX15

FEDERAL SIGNAL

Signaling & Lights

- UL Listed, except Vehicular Warning Lights

Note: fpm=Flashes per minute.

Voltage	Lamp Life	Mounting	H	Dia.	Mfr. Model	RED Item No.	AMBER Item No.	GREEN Item No.
Strobe Lights								
Streamline Low-Profile								
120V AC	7,000 hr	Edison A19 Screw-in	6 ⅛ in	3 ⅛ in	LP3E	**5WF85**	**5WF84**	—
12 to 48V DC	7,000 hr	(M) ½ in NPT w/ Locknut	5 13/16 in	3 ⅛ in	LP3M	**5WF88**	**5WF86**	**5WF87**
120V AC	7,000 hr	(M) ½ in NPT w/ Locknut	5 13/16 in	3 ⅛ in	LP3M	**5WF91**	**5WF89**	**5WF90**
120V AC	7,000 hr	(F) ½ in NPT	5 ¾ in	3 ⅛ in	LP3P	**5WF93**	**5WF92**	—
120V AC	7,000 hr	Surface	5 in	3 ⅛ in	LP3S	**3TDG4**	—	—
12 to 48V DC	7,000 hr	T-Mount	5 ⅛ in	3 ⅛ in	LP3T	**5WF95**	**5WF94**	—
120V AC	7,000 hr	T-Mount	5 ⅛ in	3 ⅛ in	LP3T	**3TDE8**	—	—
—	7,000 hr	Permanent	3 ⅝ in	5 in	LP6	—	**5WF96**	—
12 to 48V DC	7,000 hr	Surface	3 ⅝ in	5 in	LP6	**5WF97**	—	—
120V AC	7,000 hr	Surface	3 ⅝ in	5 in	LP6	**3TCX8**	**3TCX5**	—
12V DC	—	Surface	2 ⅝ in	—	LP1	—	**3TCX9** *	**3TCY3** *
120V AC	4,000 hr	Surface	2 ⅝ in	—	LP1	**4RM46** *	**4RM44** *	**4RM45** *
Electraflash								
12V DC	4,000 hr	Surface	5 in	5 ½ in	141ST	—	**3T944**	—
—	4,000 hr	(F) ½ in NPT or Surface	5 in	5 ½ in	141ST	**3T943**	—	—
24V DC	4,000 hr	Surface	5 in	5 ½ in	141ST	—	**3T946**	—
—	4,000 hr	(F) ½ in NPT or Surface	5 in	5 ½ in	141ST	**3T945**	—	—
120V AC	4,000 hr	(F) ½ in NPT	5 ¼ in	5 ½ in	141ST	—	**3T948**	—
120V AC	4,000 hr	(F) ½ in NPT or Surface	5 ¼ in	5 ½ in	141ST	**3T947**	—	—
Fireball								
120V AC	10,000 hr	(F) ½ in NPT or Surface	5 ¼ in	4 ⅛ in	FB2PST	**4A963**	**4A964**	—
Starfire								
120V AC	10,000 hr	(F) ½ in NPT	8 ½ in	5 11/16 in	131DST	**4A965**	**4A966**	—
Revolving Lights								
Electraray								
120V AC	1,000 hr	(F) ½ in NPT	7 ¼ in	5 ½ in	225	**3TCV1**	**3TCU8**	**3TCU9**
Commander LED								
120V AC	50,000 hr	Surface	11 ⅜ in	9 ⅛ in	371LED	**48Z708**	**48Z707**	—
Steady Burn LED Lights								
StreamLine Low Profile								
24V DC	100,000 hr	(F) ½ in NPT	5 ¾ in	3 ⅛ in	LP3PL	**2KFD2**	**2KFC9**	**2KFD1**
24V DC	100,000 hr	T-Mount	5 ⅛ in	3 ⅛ in	LP3TL	**2KFD5**	**2KFD3**	**2KFD4**
24V DC	100,000 hr	(M) ½ in NPT	5 13/16 in	3 ⅝ in	LP3ML	**2KFD8**	**2KFD6**	**2KFD7**
120V AC	100,000 hr	(F) ½ in NPT	5 ¾ in	3 ⅛ in	LP3PL	**2KFE2**	**2KFD9**	**2KFE1**
120V AC	100,000 hr	T-Mount	5 ⅛ in	3 ⅛ in	LP3TL	**2KFE5**	**2KFE3**	**2KFE4**
120V AC	100,000 hr	(M) ½ in NPT	5 13/16 in	3 ⅝ in	LP3ML	**2KFE8**	**2KFE6**	**2KFE7**
Warning Light Wall-Mount Kit								
—	—	(F) Pipe	6 in	—	LWMB2	—	**5T588** †	—
Vehicular Warning Lights								
851 Series								
12 to 24V DC	3000 hr.	Open Style	7½"	6 39/64"	420450-02	—	**45TP08**	—
Firebolt								
12/24V DC	—	Permanent	3 39/64"	5 33/64"	220250-02	—	**35ZX15**	—
12/24V DC	—	Magnet Mount	3 39/64"	5 33/64"	220260-02	—	**35ZX17**	—

** Rectangular design 6"L x 3⅛"W. † Dim. 5"W x 5¾"D. Gray color.*

STROBE LIGHTS

Streamline Low-Profile—Use on control panels, forklifts, and other flat or flush surfaces where space is limited. 7000-hr. lamps: 65 to 95 fpm; 4000-hr. lamps: 80 fpm. NEMA 4X, except 5WF84 and 5WF85 are NEMA 3R.

Electraflash—Use on maintenance vehicles or material handling equipment. 80 fpm. NEMA 3R.

Fireball—Vibration-resistant light provides a superior visual signal in high noise industrial environments. 90 fpm. NEMA 4X.

Starfire—Intense double-flash for use in a variety of emergency warning applications. 80 fpm. NEMA 3R.

REVOLVING LIGHTS

Electraray—Designed to be easily accessed for quick inspection and replacement. 90 fpm. NEMA 4X.

Commander LED—Heavy-duty lights employ a reflector-focused 12-LED array to produce a high-intensity beam that rotates 360°. NEMA 4X.

STEADY BURN LED LIGHTS

StreamLine Low Profile—For a variety of applications where space is limited. NEMA 4X.

WARNING LIGHT WALL-MOUNT KIT

Includes bracket, plate, and mounting screws. Suitable for NEMA 3R applications.

VEHICULAR WARNING LIGHTS

851 Series—For harsh environments. Feature open-style aluminum base with built-in high/low double flash.

Firebolt—Economical light with replaceable strobe tube. Features 14 selectable flash patterns. Magnetic-mount model 35ZX17 includes 10-ft. power cord with plug adapter.

2ERN7

2ERP3

2ERP7

Strobe Warning Lights

- Lamp life: 8000 hr.

72 fpm signals help identify dangerous conditions and raise safety awareness. Polycarbonate lens material. NEMA 4X. All are UL Listed, except for 2ERT3 and 2ERT4 which are CE Certified.

Note: fpm=Flashes per minute.

Voltage	Mounting	H	Dia.	RED Item No.	AMBER Item No.	GREEN Item No.
120V AC	Edison A19 Screw-in	6 11/16 in	2 ¾ in	**2ERN7**	**2ERN6**	—
12 to 80V DC	(M) ½ in NPT	6 ⅜ in	2 ¾ in	**2ERP1**	**2ERN8**	**2ERN9**
120V AC	(M) ½ in NPT	6 ⅜ in	2 ¾ in	**2ERP4**	**2ERP2**	**2ERP3**
120V AC	(F) ½ in NPT	6 3/16 in	2 ¾ in	**2ERP6**	**2ERP5**	—
12 to 80V DC	Surface	5 ¼ in	2 ¾ in	—	**2ERP7**	—
12 to 80V DC	Surface	5 ¼ in	3 ¾ in	**2ERP8**	—	—
12 to 80V DC	Surface	3 ⅝ in	5 in	**2ERT1**	**2ERP9**	—
12 to 80V DC	Surface	4 ½ in	5 ¾ in	—	**2ERT3**	—
12 to 80V DC	Surface	2 ½ in	5 ¾ in	—	**2ERT4**	—

FEDERAL SIGNAL

Hazardous Location Visual Alarms

- NEMA 4X Rated
- UL and C-UL Listed

Note: fpm = Flashes per minute.

STROBE LIGHTS

G-STR Models—60 fpm. 21J strobe. ATEX and IECEx Certified, CE Listed.

151XST and 154XST Models—80 fpm. 48Z703 and 48Z704 have a 4-wire super-visable power circuit for use in fire alarm applications. 1N754 and 1N755 are CSA Approved.

225XST Models—80 fpm.

LED WARNING LIGHTS

G-LED Models—Multipattern LED. 60, 75, 90 fpm. 8 on-board flash patterns. ATEX and IECEx Certified, and CE Listed.

191XL Models—Flashing LED. 1TAH1 to 1TAH4 are 60 fpm or steady burn, 48Z705 and 48Z706 are 60 fpm. Marine Rated.

225XL Models—Flashing LED. 60 fpm or steady burn.

46KT72

1N754 and 1TAH3

1N900 and 1TAF8

46KU18

Voltage	Lamp Life	Lens Material	Mounting	H	Mfr. Model	RED Item No.	AMBER Item No.	GREEN Item No.
Strobe Lights								
24V DC	10,000 hr	Polycarbonate	Surface	8 61/64 in	G-STR-024	**46KT78**	**46KT72**	**46KT75**
120V AC	10,000 hr	Polycarbonate	Surface	8 61/64 in	G-STR-120	**46KT85**	**46KT79**	**46KT82**
120V AC	10,000 hr	Glass	(F) ¾ in NPT	9 ¼ in	151XST	**1N754**	**1N755**	—
120V AC	10,000 hr	Glass	Surface	9 ¼ in	151XST	**48Z702**	**48Z701**	—
12/24V DC	10,000 hr	Glass	Surface	9 ¼ ft	154XST	**48Z704**	**48Z703**	—
120V AC	5,000 hr	Polycarbonate	(F) ½ in NPT	7 ½ in	225XST	**1N900**	**1N902**	—
LED Warning Lights								
24V DC	50,000 hr	Polycarbonate	Surface	7 ½ in	G-LED-DC	**46KU35**	**46KU29**	**46KU32**
120 to 240V AC	50,000 hr	Polycarbonate	Surface	7 ½ in	G-LED-AC	**46KU21**	**46KU15**	**46KU18**
24V AC/DC	60,000 hr	Tempered Glass	(F) ¾ in NPT	9 ¼ in	191XL	**1TAH1**	**1TAH2**	—
120/240V AC	60,000 hr	Tempered Glass	(F) ¾ in NPT	9 ¼ in	191XL	**1TAH3**	**1TAH4**	—
120/240V AC	60,000 hr	Glass	Surface	9 ¼ ft	191XL	**48Z706**	**48Z705**	—
24V AC/DC	60,000 hr	Polycarbonate	(F) ½ in NPT	7 ½ in	225XL	**1TAF6**	**1TAF7**	—
120/240V AC	60,000 hr	Polycarbonate	(F) ½ in NPT	7 ½ in	225XL	**1TAF8**	**1TAF9**	—

Hazardous Location Audible Alarms

FEDERAL SIGNAL

Vibrating Horn—Produces coded blasts or sustained tones. UL and C-UL Listed; CSA Certified.

Hazardous Location Horn—Features internal volume control. NEC Class I, Div. 1, Groups C and D. Class II, Div. 1, Groups E, F, and G. Class III. UL and C-UL Listed; CSA Certified.

Speaker/Amplifiers—With volume control. NEC Class I, Div. 2, Groups A, B, C, and D. Class II, Div. 2, Groups F and G. Class III. UL and C-UL Listed. Require Universal Tone Module 1N894 (sold separately, page 1919).

Electronic Sounder—Multivoltage sounder produces 15 unique tones. ATEX and IECEx Certified, CE Listed, and Pending UL and C-UL.

Voltage	Decibels	H	W	D	Mfr. Model	Item No.
Vibrating Horn						
120V AC	100dB @ 10 ft	4.5 in	4.5313 in	3.625 in	350WBX	**3WU54**
Hazardous Location Horn						
120V AC	100 dB	7.625 in	6.5 in	6.5 in	31X	**1N749**
Speaker/Amplifiers						
24V DC	0 to 110dB	12.25 in	7.3125 in	8.5 in	300GCX	**3WU52**
120V AC	0 to 110dB @ 10 ft	12.25 in	7.3125 in	8.5 in	300GCX	**3WU53**
Electronic Sounder						
120/230V AC, 24V DC	96 dB	8.2344 in	5.2344 in	5.2344 in	G-SND-MV-D	**46KU47**

3WU54

1N749

3WU52

46KU47

Audible Alarms

FEDERAL SIGNAL

Vibratone Horns—Can produce coded blasts or sustained tone. UL Listed. 4A967 is CSA Certified and FM Approved. 35GX51 is Marine Rated and Type 4X when installed with included panel-mount gasket. C-UL Listed.

Electronic Siren—Multivoltage siren produces 1 of 2 tones. UL and C-UL Listed. Marine Rated. Type 4X.

Resonating Horn—Resonates sound by means of a diaphragm. For indoor/outdoor use. UL Listed, CSA Certified.

Electronic Horn—Capable of producing 2 high-decibel horn tone outputs from the same unit.

Weatherproof Back Box—For surface mounting of 4A967 horn and 5LE20 speaker amplifier.

Flush-Mount Trim—Used to mount 4A967 Vibratone Horn.

Telephone Extension Ringers—Designed to draw attention. Activated by an analog phone. UL Listed, FCC Approved.

SelecTone Speaker Amplifiers—With volume control. Require Universal Tone Module 1N894 (sold separately). NEMA 3R. UL Listed. CSA Approved.

Universal Tone Module—For use with 3WU52, 3WU53, 4A968, and 5LE20 signaling devices. Microcontroller produces 1 of 32 different tones.

Streamline Low-Profile Mini Sounder—Produces 28 tones. NEMA 4X.

4A967

52XJ35

4A968

5LE16

Description	Voltage	Decibels	H	W	D	Mfr. Model	Item No.
Vibratone Horn	120V AC	100dB @ 10 ft	4 in	4 in	2.5 in	350	**4A967**
Vibratone Horn	12 to 24V DC, 16 to 33V DC	90 dB	4.125 in	4.125 in	2.7969 in	450E	**35GX51**
Electronic Siren	120/240V AC	104 to 113dB	10.1094 in	10.9219 in	9.4375 in	ESIREN	**52XJ38**
Resonating Horn	120V AC	105 dB	8 in	8 in	19.75 in	55	**1N745**
Electronic Horn	24V DC	96 to 117dB	8.5 in	8.9375 in	9.6094 in	EHORN-024	**52XJ35**
U-Bracket Mounting Kit for 52XJ35	—	—	—	—	—	EHORN-TKIT	**52XJ37**
Weatherproof Back Box	—	—	4.5313 in	4.5313 in	2.4375 in	WB	**4A969**
Flush-Mount Trim	—	—	0.25 in	5.5625 in	—	TR	**5LE17**
Telephone Extension Ringer, Bell	120V AC	98dB @ 10 ft.	5⅛"	4 13/64"	4¾"	TELB	**3LY37**
Telephone Extension Ringer, Horn	120V AC	100 dB @ 10 ft.	5⅛"	4 13/16"	3⅝"	TELH	**3LY38**
SelecTone Speaker Amplifier	120V AC	110dB @ 10 ft	12.25 in	8 in	8.25 in	300GC	**4A968**
SelecTone Speaker Amplifier	120V AC	64 to 88dB	4.5 in	4.5 in	3.4375 in	50GC	**5LE20**
Universal Tone Module	—	—	0.875 in	2.4375 in	3.5 in	UTM	**1N894**
Streamline Low-Profile Mini Sounder	9 to 28V DC	82 to 100dB	3 in	3.625 in	1.875 in	LP4	**5LE16**

Vibrating Horns and Bells

Edwards Signaling

Horns—Adjustable-volume horns provide high-decibel signals. Surface-mount are for indoor use. Panel-mount has NEMA 4X enclosure for indoor/outdoor use. UL Listed except for 16G561 and 16G562.

Hazardous Location Horns— Designed for use in locations where electrical supervision of signaling circuit field wiring is required, or for unsupervised signaling applications. NEMA Type 4X. UL Listed.

Bells—Produce a continuous rapid-fire ringing sound for timing, scheduling, paging, and general alarm applications. UL Listed. 16G571 to 16G573 are also FM Approved.

16G564

Voltage	Decibels	Mounting	H	W	D	Mfr. Model	Item No.
Horns							
24V AC	78 to 103dB	Surface	4.875 in	4.875 in	3.3125 in	876-G5	**16G564**
120V AC	78 to 103dB	Surface	4.875 in	4.875 in	3.3125 in	876-N5	**16G565**
24V DC	78 to 101dB	Surface	4.875 in	4.875 in	2.125 in	877-G1	**16G566**
24V AC	78 to 103dB	Surface	5 in	5 in	2.125 in	874-G5	**16G561**
120V AC	78 to 103dB	Surface	5 in	5 in	2.125 in	874-N5	**16G562**
120V AC	78 to 103dB	Panel	4.625 in	4.625 in	1.875 in	870P-N5	**16G559**
24V DC	78 to 91dB	Surface	4.625 in	4.625 in	1.875 in	871P-G1	**16G560**
Hazardous Location Horns							
120V AC	100 dB	Wall/Pipe	7.625 in	7.375 in	4.1875 in	878EX-N5	**16G568**
24V DC	97 dB	Wall/Pipe	7.625 in	7.375 in	4.1875 in	879EX-G1	**16G569**
4 in Bells							
24V AC	88 dB	Surface	4 in	4.5 in	2.4063 in	340-4G5	**16G570**
120V AC	88 dB	Surface	4 in	4.5 in	2.4063 in	340-4N5	**16G571**
12V DC	90 dB	Surface	4 in	4 in	2.4063 in	435-4E1	**16G575**
24V DC	90 dB	Surface	4 in	4 in	2.4688 in	435-4G1	**16G576**
6 in Bells							
24V AC	92 dB	Surface	6 in	6 in	2.9063 in	340-6G5	**16G572**
120V AC	92 dB	Surface	7.125 in	7.125 in	3.6875 in	340-6N5	**16G573**
6V DC	92 dB	Surface	6 in	6 in	2.4063 in	435-6C1	**16G577**

16G570

16G568

Visual/Audible Alarms

FEDERAL SIGNAL

Streamline Low-Profile Strobe— Provide two tone patterns with visual signal. 60 fpm. PLC compatible. CE Compliant.

Flashing Warning Lights, LED— Synchronized sound and visual signal. 60/75 fpm. UL and C-UL Listed.

Note: fpm = Flashes per minute.

Voltage	Decibels	Lamp Life	H	Dia.	Mfr. Model	AMBER Item No.	RED Item No.
Streamline Low-Profile Strobe							
18 to 30V DC	82 to 100dB @ 10 ft.	10,000 hr	3.5 in	3.6667 in	LP7	**3WU56**	**3WU57**
Flashing Warning Lights, LED							
120VAC	85dB @ 10 ft.	60,000 hr	6½"	5¾"	AV1-LED	**48Z709**	**48Z710**
24VDC	85dB @ 10 ft.	60,000 hr	6½"	5¾"	AV1-LED	**48Z711**	**48Z712**

3WU56

48Z710

Edwards Signaling | GE | WERMA SIGNALTECHNIK | Schneider Electric

Buzzers

Buzzers have continuous sound pattern. Vibrating AdaptaBuzzers 16G834 and 16G835 have adjustable volume and vibrating armature. 452U40 and 452U52 offer two-stage signaling with a permanent LED beacon plus a continuous tone to alert you to potential danger. 16G834 and 16G835 are UL Listed.

16G834

4ZZH2

Voltage	Decibels	Mounting	H	W	Housing Color	Brand	Mfr. Model	Item No.
Indoor								
24V AC	70 dB	Surface	2.3438 in	5.1094 in	Gray	Edwards Signaling	340A-G5	**16G834**
120V AC	70 dB	Surface	—	—	Gray		340A-N5	**16G835**
40 to 120V AC	80 dB	Surface	3.1406 in	1.625 in	Black	GE	PB120A	**4ZZH2**
Indoor, Outdoor								
24V AC/DC	80 dB	Surface, Wall	2.3281 in	2.0469 in	Black	Werma	10900075	**452U40**
115V AC	80 dB	Surface, Wall	2.9063 in	1.9531 in	Red		15010067	**452U52**
230 to 240V	90 dB	Surface, Wall	1.14 in	1.14 in	Black, Green	Schneider Electric	XB5KS2M4	**55WL18**
230 to 240 V	90 dB	Surface, Wall	1.14 in	1.14 in	Black, Green		XB5KS2M8	**55WL19**

452U52

55WL18

FALCON SIGNAL HORNS

Personal Air Horns

Provide a piercing 120dB blast at 10 ft. to deter a would-be assailant or unfriendly animal.

H	Coverage	Mfr. Model	Item No.
Plastic			
2 in	39 ft	FSB1	**53XP87**
3 in	39 ft	FSB5BU	**53XP89**
11 in	65 ft	FSA6	**53XP91**
Metal			
3 in	39 ft	FSB5CBU	**53XP90**
9 in	39 ft	FSB5R	**53XP88**
6 ⅝ in	65 ft	FSA6R	**53XP92**

53XP87

53XP89

53XP91

53XP90

53XP88

53XP92

SOUND SEAL CONTROLLING NOISE IN EVERY ENVIRONMENT · Auralex acoustics

Noise Absorbers

- Sound Seal products meet ASTM E84 Class I Fire Rating; Auralex Portable Screens meet the CAL 117 Standard

Eliminate noise and echo in industrial and community environments.

Wall Blanket—Abrasion-resistant fiberglass blanket has one quilted side and is impervious to dirt, grease, and solvents. Mounts on walls, ceilings, or anywhere with hard reflective surfaces. Edges are sewn and finished. Also has 4 grommets for easy installation.

Portable Screens—Use screens individually or in groups to form partial noise enclosures. 19MP54 and 19MP55 each include 2 panels and 2 round base stands. 19MP55 is sized to fit on a desk. 5T512 offers an absorber curtain quilted on one side with a reinforced vinyl barrier on the other and a powder-coated tubular steel frame stand.

Overhead Sound Baffle—Standard economy baffle has a smooth casing.

Acoustical Ceiling Tiles—Designed to replace existing grid ceiling tiles. Feature a black matte facing attached to a yellow, rigid fiberglass board.

Decorative Fabric Panels—Ready-to-mount panels feature fabric-covered 6- to 7-lb. density fiberglass core that provides maximum noise absorption. Mount easily to walls, partitions, or any flat surface.

L	W	Thickness	Color	NRC Rating	Brand	Item No.	Pkg. Qty.
Wall Blanket							
8 ft	4 ft	1 in	Gray	0.75	Sound Seal	**5T498**	1
Portable Screens							
2 ft	2 ft	3 in	Gray/	—	Auralex	**19MP55**	2
4 ft	2 ft	3 in	Black	—	Auralex	**19MP54**	2
8 ft	4 ft	1 in	Gray	0.75	Sound Seal	**5T512**	1
Overhead Sound Baffles							
2 ft	4 ft	1.5 in	White	1.13	Sound Seal	**3TPT6**	10
Acoustical Ceiling Tiles							
48 in	24 in	2 in	Black	1.15	Sound Seal	**420T48**	3
Decorative Fabric Panels							
2 ft	2 ft	1 in	Gray	0.75	Sound Seal	**1VDR2**	1
2 ft	2 ft	1 in	Blue	0.75	Sound Seal	**1VDR4**	1
2 ft	2 ft	1 in	Neutral	0.75	Sound Seal	**1VDR6**	1
4 ft	2 ft	1 in	Gray	0.75	Sound Seal	**4RC06**	1
4 ft	2 ft	1 in	Blue	0.75	Sound Seal	**4RC05**	1
4 ft	2 ft	1 in	Neutral	0.75	Sound Seal	**1VDT7**	1

Wall Blanket
5T498

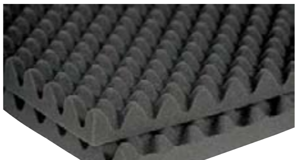
Portable Screen—4 Screens Shown (Sold individually.)
5T512

Portable Screens
19MP55

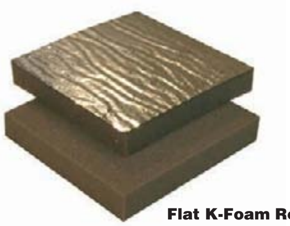
Overhead Sound Baffle
3TPT6

Acoustical Ceiling Tile
420T48

Decorative Fabric Panel
4RC06



Convoluted Foam Sheets
19MP18



Flat K-Foam Roll
3TPU1

Quilted Absorber Roll
1VDL9

Auralex acoustics · SOUND SEAL CONTROLLING NOISE IN EVERY ENVIRONMENT

Acoustic Foam Sheets and Quilted Absorber Rolls

Can be easily cut into custom sizes and applied to most surfaces.

Convoluted Foam Sheets—Open-cell cone-shape polyurethane foam. Provide greater absorption to surface areas than flat foam. Ideal for low- to mid-range frequency sound absorption. Resist oil, alkali, and mild acids. Not for use near open flame or sparks. Sound Seal sheets temp. range: -45° to 250°F.

Flat K-Foam Roll—2-lb. density, open-cell flat polyurethane foam provides excellent absorption over a broad frequency range. Not for use near open flame or sparks. Aluminized Mylar-faced roll is impervious to water, dust, and oils, and is cleanable. Resistant to moisture and lubricants. Temp. range: -20° to 120°F.

Quilted Fiberglass Absorber Rolls—Aluminized facing is abrasion-resistant and impervious to water, dust, oils, grease, and most solvents. Rolls easily attach to walls or other surfaces. Temp. range: -30° to 250°F. 1VDL9 is used for most broadband noise problems, and 1VDP5 is for noise levels higher in low-frequency bands.

- Meet ASTM E84 Class I Fire Rating

L	W	Thickness	Color	NRC Rating	Brand	Item No.	Pkg. Qty.
Convoluted Foam Sheets							
2 ft	2 ft	2 in	Gray	0.8	Auralex	**19MP19**	12
2 ft	2 ft	4 in	Gray	1.1	Auralex	**19MP20**	6
27 in	54 in	1 in	Gray	0.7	Sound Seal	**5T492**	4
27 in	54 in	2 in	Gray	0.8	Sound Seal	**5T493**	4
27 in	54 in	3 in	Gray	0.85	Sound Seal	**5T494**	4
8 ft	4 ft	2 in	Gray	0.7	Auralex	**19MP18**	2
Flat K-Foam Roll							
10 ft	54 in	1 in	Charcoal	0.55	Sound Seal	**3TPU1**	1
Quilted Fiberglass Absorber Rolls							
25 ft	48 in	1 in	Gray	0.75	Sound Seal	**1VDL9**	1
25 ft	48 in	2 in	Gray	0.8	Sound Seal	**1VDP5**	1

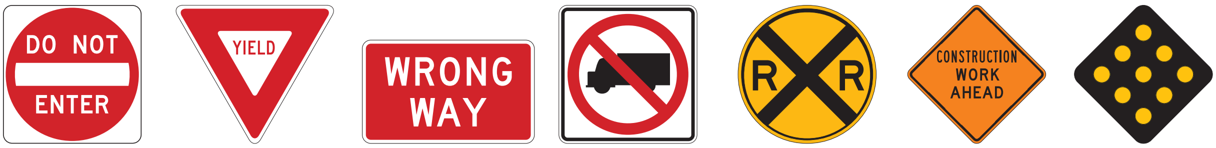
Find more Safety Sign Compliance and Material Type information on page 1882.

Traffic Control Signs

Communicate traffic rules and warnings and make drivers aware of crosswalks, railroads, road conditions and road construction zones. These aluminum signs are commonly posted near public and private roadways, parking lots, and railroads. HIP sheeting provides higher reflectivity than D or EG sheeting.

Available Reflective Sheeting	
Diamond Grade	(D)
Engineering Grade	(EG)
High Intensity Prismatic	(HIP)

- **W11-2 D9719** D, HIP (24 in x 24 in, 30 in x 30 in)
- **H1915** D, HIP (24 in x 18 in)
- **H1914** EG, HIP (24 in x 18 in)
- **W42-8 D9752** D, HIP (24 in x 24 in) HIP (30 in x 30 in)
- **R1-1 D9768** HIP (12 in x 12 in, 18 in x 18 in, 24 in x 24 in, 36 in x 36 in) D (12 in x 12 in, 18 in x 18 in, 24 in x 24 in, 30 in x 30 in, 36 in x 36 in)
- **449L17** HIP (24 in x 24 in)
- **R1-6A 3ZTG4** D (36 in x 12 in)



- **R5-1 D9624** D, HIP (24 in x 24 in, 30 in x 30 in) HIP (12 in x 12 in)
- **R1-2 D9794** D, HIP (24 in x 24 in, 30 in x 30 in, 36 in x 36 in) HIP (12 in x 12 in)
- **R5-1A D9793** D, HIP (18 in x 30 in, 24 in x 36 in)
- **R5-2 D9706** D, HIP (24 in x 24 in)
- **W10-1 D9728** D, HIP (30 in x 30 in) HIP (12 in x 12 in)
- **W20-1W 3ZTL7** HIP (30 in x 30 in)
- **OM1-2 3PMP3** HIP (18 in x 18 in)

- **448T94** D (18 in x 12 in)
- **R2-1 D9765** D, HIP (24 in x 18 in)
- **R2-1 D9757** D, HIP (24 in x 18 in)
- **R2-1 D9758** D, HIP (24 in x 18 in)
- **R6-2L 6DUX8** D (24 in x 18 in)
- **R6-2R D9712** D, HIP (24 in x 18 in)
- **R6-2A D9713** D, HIP (24 in x 18 in)

Parking Signs

These aluminum signs communicate parking rules and regulations and help organize and control traffic flow. They are commonly mounted on sign posts, stands, or walls within parking lots. HIP sheeting provides higher reflectivity than D or EG sheeting.

Available Reflective Sheeting	
Diamond Grade	(D)
Engineering Grade	(EG)
High Intensity Prismatic	(HIP)

- **D9633** D, HIP (18 in x 18 in)
- **D9637** D, HIP (18 in x 18 in)
- **R7-94 H1883** EG, HIP (18 in x 12 in)
- **R7-1D 3ZTN1** HIP (18 in x 12 in)
- **R7-1R 3ZTN3** HIP (18 in x 12 in)
- **R7-1 3ZTL9** HIP (18 in x 12 in)
- **R8-3 3ZTN9** HIP (18 in x 12 in)

- **R7-3 3ZTP1** HIP (18 in x 12 in)
- **6DUV7** HIP (18 in x 12 in)
- **3ZTP3** HIP (18 in x 12 in)
- **3ZTP6** HIP (18 in x 12 in)
- **3ZTP7** HIP (18 in x 12 in)
- **3ZTP8** HIP (18 in x 12 in)
- **3ZTP9** HIP (18 in x 12 in)

- **H1932** EG, HIP (18 in x 12 in)
- **R7-8D 2ZTV1** HIP (18 in x 12 in)
- **R7-8 3YPF7** HIP (18 in x 12 in)
- **3YPD9** HIP (18 in x 12 in)
- **3YPE1** HIP (18 in x 12 in)
- **R7-8B D9787** EG, HIP (6 in x 12 in)
- **3YPF5** HIP (6 in x 12 in)

TAPCO Safe travels.

BlinkerSign Flashing LED Traffic Signs

- Meet MUTCD requirements
- Programmed to flash 24/7

All signs are aluminum and 0.08-in thick. Offer high-visibility LED lights and 3M reflective sheeting. Have a 100,000 hr LED life expectancy.

Pedestrian Crossing signs have an MUTCD code of W11-2; School Crossing signs are S1-1, and Stop signs are coded R1-1.

3YPF8

3YPG9

Includes	Nominal Sign Size	PEDESTRIAN CROSSING Item No.	SCHOOL CROSSING Item No.	STOP Item No.
Solar, Diamond Grade				
Battery Charger, Tool for Solar Panel Installation	30 in x 30 in	3YPG7	3YPG3	3YPF8
Installation Tools, Programming Software, Time Clock Circuity	30 in x 30 in	—	20H157	—
Installation Tools, Time Clock Circuity	30 in x 30 in	—	20H158	—
	36 in x 36 in	—	20H162	—
Battery Charger, Tool for Solar Panel Installation	36 in x 36 in	—	3YPG4	3YPF9
	36 in x 36 in	9FDE9	—	—
Cord for AC Power	36 in x 36 in	—	20H161	—
Plug-In, High Intensity Prismatic (HIP)				
Articulating Brackets, Power Cord	24 in x 24 in	—	—	61DU23
Plug-In, Diamond Grade				
Cord for AC Power	24 in x 24 in	—	—	36JT62
	30 in x 30 in	3YPG9	—	3YPG1
	36 in x 36 in	3YPH1	—	3YPG2

Cortina Safety Products

Portable Stop Signs with Base

Quickly and easily set up a temporary 2-way or 4-way stop sign. Signs include a white HDPE delineator post, 2 interlocking 18 in ABS plastic stop signs, and one 15-lb recycled rubber base.

2KCV7

Retroreflective Grade	Nominal Sign Size	Item No.
Not Retroreflective	56 in x 11 in	2KCV7
High Intensity Prismatic (HIP)	56 in x 11 in	3LWE3

Polyester/PVC
Not Retroreflective Grade
G7231

Vinyl
Diamond Grade
G7241

Vinyl
RS34 Grade
G7248

Roll-Up Signs

Eastern Metal Signs & Safety EASTERNMETALSIGNSANDSAFETY.COM

- Meet MUTCD requirements
- Diamond shape

All roll-up signs have an orange background with black text and quickly alert drivers and pedestrians of hazards. Not retroreflective signs are designed for daytime use only; retroreflective signs provide a highly visible warning and are for day or evening use. Feature standard fiberglass battens with lock pockets. They fit federally approved sign stands. Include storage bag.

Sign Legend	▶CHOOSE: Sign Material	▶CHOOSE: Retroreflective Grade	▶CHOOSE: Nominal Sign Size	Item No.
Accident Ahead	Polyester/ PVC, Vinyl	Not Retroreflective, Superbright, RS34, Marathon, Diamond	36 in x 36 in, 48 in x 48 in	G7231
Detour				G7233
Detour Ahead				G7234
Left Lane Closed Ahead			36 in x 36 in, 48 in x 49 in	G7238
Left Lane Ends Symbol			36 in x 36 in, 48 in x 48 in	G7239
Men Working	Polyester/PVC	Not Retroreflective	48 in x 48 in	481H78
Men Working Symbol	Polyester/ PVC, Vinyl	Not Retroreflective, RS34, Marathon, Diamond	36 in x 36 in, 48 in x 48 in	G7241
One Lane Road Ahead		Not Retroreflective, Superbright, RS34, Marathon, Diamond		G7242
Right Lane Closed Ahead				G7243
Right Lane Ends Symbol				G7244
Road Closed Ahead	Vinyl			G7245
Utility Work Ahead		Superbright, RS34, Marathon, Diamond		G7248
Utility Work Ahead	Polyester/PVC	Not Retroreflective	36 in x 36 in	8UN42
Work Area Ahead				8P341

BRADY

2-Sided Stop/Slow Paddle Signs

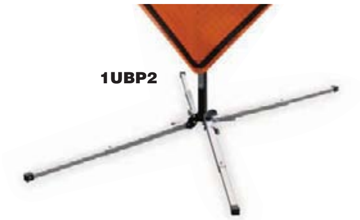
- Meet MUTCD requirements, except 1EKR2, 1EKR3, 1EKV3, and 14Z558

1EKR3, 1EKR4, and 1EKV3 have an 81 in high-visibility, orange handle.

1EKR2

1EKR3

Retroreflective Grade	Sign H	Sign W	Brand	Item No.
ABS Plastic with 9 in Polygrip Handle				
Nonreflective	18 in	18 in	—	1EKR2
Engineer	18 in	18 in	—	6FGK0
High-Intensity Prismatic (HIP)	18 in	18 in	—	6FGK2
Engineer	18 in	18 in	—	6FGJ9
High-Intensity Prismatic (HIP)	18 in	18 in	—	6FGK1
ABS Plastic with 2-pc. Plastic Handle				
Nonreflective	24 in	24 in	—	6AFT7
Engineer	24 in	24 in	—	1EKR3
High-Intensity Prismatic (HIP)	24 in	24 in	—	1EKR4
Diamond	24 in	24 in	—	1EKV3
Aluminum with 9 in Aluminum Handle				
Nonreflective	18 in	18 in	Brady	14Z558



1UBP2

1UBN9

23J509

23J514

23J507

1UBP1

DICKE Since 1886

Roll-Up and Rigid Sign Stands

- NCHRP-350 compliant
- Compatible with either 36 in x 36 in or 48 in x 48 in signs

23J511 and 23J514 each have 3 flag holders.

Sign Compatibility	Leg L Range	Mast H Range	Sign Stand Material	Sign Stand Connection	Item No.
Springless Sign Stand, 4 Legs					
Roll-Up	28 in to 43 in	12 in	Aluminum	Screwlock	1UBP2
Springless Sign Stand With Weighted Base, No Legs					
Roll-Up	28 in to 28 in	12 in	Rubber	Pocket	1UBN9
Springloaded Sign Stands, 4 Legs					
Roll-Up	32 in to 48 in	18 in	Aluminum	Screwlock	23J509
Roll-Up	32 in to 48 in	18 in	Aluminum	Screwlock	1UBP3
Rigid	44 in	48 in to 84 in	Steel	Bracket	23J511
Rigid	44 in	48 in to 84 in	Aluminum	Bracket	23J514
Ground Stake Sign Stand, No Legs					
Roll-Up	—	77 in	Steel	Bracket	23J507
Tripods Sign Stands, 3 Legs					
Roll-Up	54 in	77 in	Steel	Bracket	1UBP1
Rigid	54 in	77 in	Steel	Bracket	23J508

U-Channel Sign Posts

- Prepunched mounting holes

Aluminum/Composite and Composite Sign Posts—Use open-profile posts for signs up to 12" x 18", closed-profile for signs up to 30" x 30". Closed-profile posts are pointed for easy installation and include a top cap.

Breakaway Steel Sign Posts—Constructed of Rib-Bak high-carbon billet that is 25% stronger than other U-Channel posts. Mounting holes on 1" centers. Mounting hardware sold separately.

4ZH33

3PNJ8

39F186

U-Channel Profile	L	Post Dim.	Post Color	Post Finish	Item No.
Aluminum, Composite Sign Posts—Brady					
Open	8 ft.	8 ft	Green	Unfinished	**4ZH34**
Open	8 ft.		White	Unfinished	**4ZH32**
Closed	8 ft.		Green	Unfinished	**4ZH35**
Closed	8 ft.		White	Unfinished	**4ZH33**
Composite Sign Posts—Designovations Inc.					
Open	6 ft.	6 ft x 2 in x 1 in	White	Clear Veil	**6XDJ8**
Closed	6 ft.		Green	Clear Veil	**3PNJ4**
Closed	7 ft.	7 ft x 2 in x 1 in	Yellow	Clear Veil	**6XDK4**
Open	8 ft.	8 ft x 2 in x 1 in	Green	Clear Veil	**6XDK1**
Open	8 ft.		White	Clear Veil	**6XDK2**
Closed	8 ft.		Green	Clear Veil	**3PNJ8**
Breakaway Steel Sign Posts—Tapco					
Open	6 ft.	6 ft x 2 ¼ in x ⅞ in	Green	Powder Coated	**39F186**
Open	6 ft.		Silver	Galvanized	**39F192**
Open	6 ft.	6 ft x 3 3⁄16 in x 1 15⁄32 in	Green	Powder Coated	**3JY32**
Open	6 ft.		Silver	Galvanized	**39F189**
Open	7 ft.	7 ft x 2 ¼ in x ⅞ in	Green	Powder Coated	**4LNK3**
Open	7 ft.		Silver	Galvanized	**4LNK4**
Open	7 ft.	7 ft x 3 3⁄16 in x 1 15⁄32 in	Green	Powder Coated	**39F188**
Open	7 ft.		Silver	Galvanized	**39F191**
Open	8 ft.	8 ft x 2 ¼ in x ⅞ in	Green	Powder Coated	**39F187**
Open	8 ft.		Silver	Galvanized	**39F193**
Open	8 ft.	8 ft x 3 3⁄16 in x 1 15⁄32 in	Green	Powder Coated	**6T437**
Open	8 ft.		Silver	Galvanized	**4LNK2**
Open	10 ft.	10 ft x 3 3⁄16 in x 1 15⁄32 in	Green	Powder Coated	**6G763**
Open	10 ft.		Silver	Galvanized	**4LNJ9**
Open	12 ft.	12 ft x 3 3⁄16 in x 1 15⁄32 in	Green	Powder Coated	**6G764**
Open	12 ft.		Silver	Galvanized	**39F190**

Round Sign Posts

- All sign bases are black

Steel Sign Posts—High-tensile galvanized steel posts resist corrosion. Not punched.

Sign Post with Flexible Spring Base—Square base mounts to concrete or asphalt. Holds signs up to 18" x 24", includes mounting hardware and post installation kit. Not punched.

Portable Sign Posts with Bases—488F11 holds signs up to 18" x 24". 1VC44 and 1DYJ4 handle signs up to 24" x 24"; mounting hardware included. 1VC44 has holes on 1" centers. Prepunched.

35ZP21

1DYJ5

488F11

1DYJ3

Post Dim.	Post Color	Post Finish	Wall Thickness	Holes on 1 in. Centers	Brand	Item No.
Sign Posts, Steel						
10 ft x 2 ⅜ in	Silver	Galvanized	16 ga (.065 in)	No	Tapco	**9A908**
12 ft x 2 ⅜ in	Silver	Galvanized		Yes	Tapco	**35ZP21**

Post Dim.	Post Color	Post Finish	Base Wt.	Base Dia.	Brand	Item No.
Sign Post with Flexible Spring Base, Polypropylene						
5 ft x 8 in x 8 in	White	Unfinished	1 lb	8 in	Brady	**1DYJ5**
Portable Sign Post with Base, Steel						
4 ft 3 in x 1 ⅝ in	Black	Enamel	24 lb	14 in	Lyle	**488F11**
Portable Sign Post with Base, Iron						
4 ft x 17 in x 17 in	Black	Enamel	35 lb	17 in	Brady	**1VC44**
Portable Sign Posts with Bases, PVC Post with Rubber Base						
5 ft	White	Unfinished	30 lb	15 in	Brady	**1DYJ3**
5 ft		Unfinished	60 lb	15 in	Brady	**1DYJ4**

Square Sign Posts

These posts are for signs up to 36" x 36". **Composite** posts are maintenance-free, will not rust or corrode.

High-tensile galvanized steel posts resist corrosion.

6XDL0

8LV68

Post Dim.	Post Color	Post Finish	Wall Thickness	Holes on 1 in. Centers	Item No.
Composite, Not Punched—Designovations Inc.					
8 ft x 2 in x 2 in	White	Clear Veil	3 ga (0.25 in)	No	**6XDL0**
	Green	Clear Veil		No	**3PNH5**
Steel, Prepunched Full Length of Post—Tapco					
8 ft x 2 in x 2 in	Silver	Galvanized	14 ga (0.0781 in)	Yes	**8LV68**
10 ft x 2 in x 2 in	Silver	Galvanized		Yes	**8LV69**

3YVU7

4VL34

9RX15

488D02

6XDJ3

6VEF7

25AY10

6VKK7

9ANX7

3PNJ2

1DYJ6

9FPR4

3PNG7

4ZH36

24WH48

Sign Bases and Accessories

Compatible Sign Post Style	Compatible Sign Post Size	Base Shape	Base Wt.	Base Material	Base Color	Base Dia.	Brand	Item No.
Surface Mount Sign Post Bases								
Round, Square, U-Channel	2 ⅜ in Round, 2 in x 2 in Square, 3 3⁄16 in x 1 9⁄32 in U-Channel	Round	6 lb	Aluminum	Silver	15 in	Tapco	**3YVU7**
U-Channel	2 ¾ in x 1 ½ in	Round	7 lb	Aluminum	Silver	14 ½ in	Lyle	**488F10**
	1 ¼ in x 1 ½ in	Round	8 lb	Aluminum	Silver	14 ½ in	Brady	**4VL34**
Portable Sign Post Bases								
Round, Square, U-Channel	2 ⅜ in Round, 2 in x 2 in Square, 3 3⁄16 in x 1 9⁄32 in U-Channel	Round	70 lb	Concrete	Silver	18 in	Tapco	**9RX15**
Square	1 ¾ in	Cone	72 lb	Rubber	Black	18 in	Zing	**488D02**
	2 in x 2 in	Cone	125 lb	Concrete	Gray	18 in	Tapco	**35ZP20**
	2 in x 2 in	Pyramid (Square)	250 lb	Concrete	Gray	18 in	Tapco	**35ZP18**

Material	Ground Type for Anchor	No. of Holes	Compatible Sign Post Style	Compatible Sign Post Size	Brand	Item No.
Breakaway Surface-Mount Sign Post Anchors						
Cast Iron	Concrete	3	Round	2⅜ in	Designovations Inc.	**6XDJ3**
	Concrete	3	Square	2 in x 2 in	Designovations Inc.	**6XDH8**
	Concrete	3	U-Channel	2 lb/ft, 3 lb/ft, 4 lb/ft	Designovations Inc.	**6XDJ6**
Breakaway In-Ground Sign Post Anchors						
Steel	Concrete	4	Square	2 in x 2 in	Tapco	**6VEF6**
	Concrete	0	U-Channel	2 lb/ft	Tapco	**6VEF7**
	Standard Soil	0	Round	3 in	Tapco	**25AY10**
	Standard Soil	4	Square	2 in x 2 in	Tapco	**3PND8**
	Standard Soil	0	U-Channel	2 lb/ft	Tapco	**25AZ04**
Breakaway Sign Post Couplers						
Cast Iron	—	—	Round	2⅜ in	Designovations Inc.	**6XDJ2**
	—	—	Square	2 in, 2¼ in	Designovations Inc.	**6VKK7**
	—	—	U-Channel	2 lb/ft, 3 lb/ft, 4 lb/ft	Designovations Inc.	**6XDJ5**

Description	Material	Color	Brand	Item No.
Manual Post Driver and Sign Post Drive Cap				
Manual Fence Post Drivers	Steel	Black/Gray	—	**9ANX7**
	Steel Alloy	Silver	Tapco	**3PNJ2**

Description	Compatible Sign Post	Brand	Item No.
Sign Mounting Hardware			
Sign Mounting Brackets, Strap-On	4 in to 12 in Round	Tapco	**1DYJ6**
Single-Sided Sign Mounting Brackets, Clamp-On	2 ⅜ in Round	Tapco	**9FPR4**
Double-Sided Sign Mounting Brackets, Clamp-On	2 ⅜ in Round	Tapco	**8LV70**
Street Sign Cross-Piece Bracket, Bolt-On	—	Tapco	**3PNG7**
Vandal Resistant Sign Mounting Hardware, Bolt-On	1 ¾ in x 1 ¾ in Square, 1.12 lb/ft U-Channel, 2 in x 2 in Square, 2 lb/ft U-Channel	Tapco	**4ZH36**
Vandal Resistant Sign Mounting Brackets Kit, Clamp-On	2 ⅜ in Round	Tapco	**24WH48**

45MG25

8FXCO

Safety Flares and Storage Cases

- Flares are UL Listed

Highly visible flares ignite with self-contained striker. Polyethylene Storage Cases are equipped with a handle for easy transport. Red color.

2KCW4

L	Flare Duration	Item No.	Pkg. Qty.
Road Flare			
10 ½ in	20 min	**45MG25**	72
17 ½ in	30 min	**45MG26**	36
Spike Flares w/Wire Stand			
14 in	30 min	**8FXC0**	36
Nonspike Flare Cases—Hold Up to 12 Flares			
18 in	—	**2KCW3**	1
18 in	—	**2KCW4**	1

D6166

PowerFlare®

LED Safety Lights

Ultrabright lights use 16 all-direction LEDs for visibility up to 7 mi. Compact, 1¼"H x 4¼"-dia. lights work underwater and in hot or freezing temperatures. 10 flash patterns including "SOS" and solid-on lantern. Feature lithium batteries. Run up to 150 hr on one battery. Rechargeable light kits plug into a vehicle hot point (12/30VDC).

▶CHOOSE: LED Color	▶CHOOSE: Shell Color	Includes	Item No.
PowerFlare LED Safety Lights with Replaceable Batteries			
Blue	Yellow	Battery	**5NJU4**
Amber, Amber/ Red, Red	Orange, Yellow	Battery	**D6163**
PowerFlare LED Safety Light Kits with Carrying Bag and Replaceable Batteries			
Amber, Amber/ Red, Red	Orange, Yellow	(3) Lights, (3) CR123 Batteries, Orange Carrying Bag	**D6164**
		(4) Lights, (4) CR123 Batteries, Orange Carrying Bag	**D6165**
		(6) Lights, (6) CR123 Batteries, Orange Carrying Bag	**D6166**
		(8) Lights, (8) CR123 Batteries, Orange Carrying Bag	**D6167**
PowerFlare Safety Light Kits with Charging Station			
Amber, Red	Yellow	(6) Lights, (6) Rechargeable Batteries, Charging Station	**G8444**
Blue, Blue/Red			**G8445**
PowerFlare AC/DC Adapter			
—		AC to DC Converter	**30RU10**

Red LED H5597

FLAREALERT LED LIGHTING

LED Safety Lights

Water-resistant, crush-resistant, reusable flares produce 360° beacons of light that can be seen for miles. The magnetic base lets you elevate the light for better visibility. Require 4 AA batteries, not included except in kits.

0.5W LED light battery life is 40-hr steady, 140-hr flash. 1W LED light battery life is 20-hr steady, 60-hr flash.

Kits H5599, H5595, and H5596 include cone adapters that hold 1 or 2 lights vertically and weighted bases to keep lights firmly in place when marking a traffic pattern or landing zone.

Description	▶CHOOSE: LED Color	Item No.
LED Safety Lights		
0.5W Light	Red, Yellow	**H5594**
1W Light	Red, Yellow	**H5600**
	Blue, Green, White	**H5601**
LED Safety Light with Storage Bag		
(3) 0.5W Lights	Red, Yellow	**H5597**
(3) 1W Lights	Red, Yellow	**H5602**
	Blue, Green, White	**H5603**
(8) 0.5W Lights	Red, Yellow	**H5598**
(8) 1W Lights	Blue, Green, White	**H5604**
LED Safety Light Kits		
(8) 1W Lights, Storage Bag	Red	**3LXD9**
(8) 0.5W Lights, (8) Cone Adapters, (8) Weighted Bases, (32) AA Batteries	Red, Yellow	**H5599**
(8) 1W Lights, (8) Cone Adapters, (8) Weighted Bases, (32) AA Batteries	Red, Yellow	**H5595**
	Blue, Green, White	**H5596**
Accessory		
Cone Adaptor	—	**52TD08**

AERVOE®

LED Baton Traffic Flares and Road Flares

26L092

26L101

Rechargeable flares are a safer alternative to traditional incendiary flares. Crush-resistant body with impact-resistant rubber housing. Waterproof. Intrinsically-safe design with rubber-tight seals. Include a 120V wall charger and 12V vehicle charger.

LED Baton Traffic Flares and Kits—Have a ½"W LED flashlight and 14 signal LEDs visible up to ½ mi., to use as an emergency road flare or handheld safety wand. Feature five different flash patterns.

Super LED Road Flares and Kits—Have 24 LEDs and 2 rows of lights to boost visibility up to 2 mi. 7 flash patterns. 4-Pack Kits are great for first responders.

Flex-Fit Tripod—Use to elevate flares in a vertical position for greater visibility.

Description	Number of LEDs	LED Color	Shell Color	Item No.
LED Baton Traffic Flares				
Single Flare	15	Yellow	Yellow	**26L091**
Single Flare	15	Red	Orange	**26L092**
Single Flare	15	Blue/Red	Blue	**35MT04**
LED Baton Traffic Flare Kits				
3 Flares and 2 Flex-Fit Tripods	15	Red	Orange	**26L093**
3 Flares and 2 Flex-Fit Tripods	15	Yellow	Yellow	**26L094**
Super LED Road Flares				
Single Flare	24	Yellow	Yellow	**26L097**
Single Flare	24	Red	Orange	**26L098**
Super LED Road Flare Kits				
4 Flares and 2 Flex-Fit Tripods	24	Red	Orange	**26L099**
4 Flares and 2 Flex-Fit Tripods	24	Yellow	Yellow	**26L101**
Accessory				
Flex-Fit Tripod				**26L095**

EMI®

Flashback Three Light Batons

Flashback Five Illuminator Light Baton

LED Light Batons

Range of up to 1 mi. Batteries not included. Feature nonslip textured grip, magnetic tailcap, built-in belt clip, and wrist strap.

Flashback Three Light Batons—3-stage switch provides flashing light, steady light, and an endcap flashlight. Weather-resistant, high-impact ABS plastic body.

Flashback Five Illuminator Light Baton—5-stage switch provides red, blue, red/blue alternating, red/blue blend, plus 360° constant-on white light.

Flashback Traffic Controller Light Baton—3-stage switch provides green and red steady light and endcap flashlight. High-impact weather-resistant ABS plastic body has a nonslip textured grip, built-in belt clip, wrist strap, and magnetic tailcap.

LED Color	Operating Life	Power Source	Item No.
Flashback Three Light Batons			
Red	90 hr Steady	(3) AA Batteries	**15U923**
Blue	90 hr Steady	(3) AA Batteries	**15U924**
Amber	90 hr Steady	(3) AA Batteries	**15U925**
Flashback Five Illuminator Light Baton			
Blue/Red/White	72 hr Steady	(4) AA Batteries	**15U922**
Flashback Traffic Controller Light Baton			
Green/Red/White	300 hr Steady, 90 hr Flashing	(4) AA Batteries	**33VP36**

Light Sticks

CYALUME® Technologies

Snap and shake for 360º illumination and visibility up to 1 mile. Nontoxic, nonflammable, and waterproof. ChemLight models meet DLA and NAMSA Military Specifications.

L	Duration	Color	Item No.	Pkg. Qty.
ChemLight				
6 in	3 hr	IR*	**20UL12**	10
6 in	8 hr	Blue	**3NRA7**	10
6 in	8 hr	White	**3NRA8**	10
SnapLight				
6 in	8 hr	White	**9FWU0**	10
6 in	12 hr	Green	**8XZM7**	10
12 in	12 hr	Green	**5YB27**	1

** Requires night vision goggles.*

3NRA7 5YB27

Barricade Tape, Flagging Tape, and Marking Flags

Barricade tape features repeat wording that identifies hazards and outlines restricted areas. Legend wording for all barricade tape is black. **Flagging tape** is a highly visible solid color and can be used with **marking flags** for even better visibility.

Legend	Color	W	L	Thickness	Material	Brand	Item No.
Barricade Tape							
Caution	Yellow	3 in	200 ft	3 mil	Polyethylene	—	**8AW25**
Caution	Yellow	3 in	300 ft	2 mil	Plastic	—	**36UV37**
Caution	Yellow	3 in	500 ft	4 mil	Reinforced Polypropylene	Brady	**15Y425**
Caution	Yellow	3 ¾ in	500 ft	6 mil	Polyethylene	—	**21YH34**
Caution	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**4A416**
Caution	Yellow	3 in	1,000 ft	3 mil	Polyethylene	—	**21YH35**
Caution	Yellow	3 in	1,000 ft	3 mil	Polyethylene	Presco	**3UTW3**
Caution	Yellow	3 in	1,000 ft	4 mil	Polyethylene	Presco	**8RLR9**
Caution	Yellow/ Black	3 in	1,000 ft	2 mil	Polyethylene	Skilcraft	**55MP90**
Caution/Cuidado	Yellow	3 in	1,000 ft	4 mil	Polyethylene	Harris Industries	**8FGT5**
Caution Caution Caution	Yellow	3 in	500 ft	7 mil	Reinforced Polypropylene	—	**8XYZ2**
Caution Chemical Spill	Yellow	3 in	500 ft	4 mil	Reinforced Polypropylene	—	**9TZL4**
Caution Construction Area	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N958**
Caution Cuidado	Yellow	3 in	300 ft	4 mil	Polyethylene	—	**9CYF2**
Caution Cuidado	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N922**
Caution Do Not Enter	Yellow	3 in	500 ft	4 mil	Reinforced Polypropylene	—	**8WYK7**
Caution Do Not Enter	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N956**
Caution Do Not Enter	Yellow	3 in	1,000 ft	3 mil	Polyethylene	Presco	**3LUR3**
Caution No Parking	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N954**
Crime Scene Do Not Cross	Yellow	3 in	1,000 ft	3 mil	Polyethylene	Cortech	**31XM60**
Danger	Red	3 in	500 ft	4 mil	Reinforced Polypropylene	—	**9TV07**
Danger	Red	3 in	500 ft	7 mil	Reinforced Plastic	—	**30WU19**
Danger	Red	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N960**
Danger	Red	3 in	1,000 ft	2 mil	Polyethylene	—	**6UTA9**
Danger	Red	3 in	1,000 ft	3 mil	Plastic	—	**36UV33**
Danger Asbestos Hazard	Red	—	1000 ft.	2 mil	Polyethylene	—	**35R881**
Danger Do Not Enter	Red	3 in	300 ft	2 mil	Plastic	C.H. Hanson	**36UV38**
Danger Do Not Enter	Red	3 in	500 ft	4 mil	Polyethylene	—	**8VLL7**
Danger Do Not Enter	Red	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N962**
Danger Lead Hazard	Red	—	1000 ft.	2 mil	Polyethylene	—	**35R880**
Fire Line Do Not Cross	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**4ACD5**
Hazardous Area Keep Out	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N952**
Police Line Do Not Cross	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**4ACD4**
Police Line Do Not Cross	Yellow	3 ¼ in	1,000 ft	3 mil	Polyethylene	—	**21YH38**
QA Hold	Yellow	3 in	1,000 ft	4 mil	Polyethylene	—	**9PNZ6**
Quality Hold	Yellow	3 in	1,000 ft	4 mil	Polyethylene	—	**8WND2**
Warning Restricted Area	Yellow	3 in	1,000 ft	1.6 mil	Polyethylene	—	**1N912**

Color	W	L	Thickness	Material	Brand	Item No.
Flagging Tape						
Blue	1 3⁄16 in	300 ft	2 mil	Polyethylene	—	**1EC26**
Fluorescent Blue	1 3⁄16 in	150 ft	4 mil	Polyethylene	—	**1EC21**
Fluorescent Lime	1 3⁄16 in	150 ft	4 mil	PVC	—	**1EC19**
Fluorescent Orange	1 3⁄16 in	150 ft	4 mil	PVC	—	**1EC17**
Fluorescent Pink	1 3⁄16 in	150 ft	4 mil	PVC	—	**1EC18**
Fluorescent Red	1 3⁄16 in	150 ft	4 mil	PVC	—	**1EC20**
Fluorescent Red	1 3⁄16 in	300 ft	2 mil	Polyethylene	—	**1EC23**
Orange	1 3⁄16 in	300 ft	2 mil	Polyethylene	—	**1EC25**
White	1 3⁄16 in	300 ft	2 mil	Polyethylene	—	**1EC24**
Yellow	1 3⁄16 in	300 ft	2 mil	Polyethylene	—	**1EC22**
Flagging Tape Rated for Sub-Zero Temperature Conditions						
Fluorescent Blue	1 3⁄16 in	150 ft	5 mil	PVC	—	**39EN73**
Fluorescent Lime	1 3⁄16 in	150 ft	5 mil	PVC	—	**39EN79**
Fluorescent Orange	1 3⁄16 in	150 ft	5 mil	PVC	Presco	**9PWM5**
Fluorescent Pink	1 3⁄16 in	150 ft	5 mil	PVC	Presco	**9T646**
Fluorescent Red	1 3⁄16 in	150 ft	5 mil	PVC	—	**39EN75**
Green	1 3⁄16 in	150 ft	5 mil	Polyethylene	—	**39EN78**
Yellow	1 3⁄16 in	150 ft	5 mil	PVC	—	**39EN77**

Legend	▶CHOOSE: Color	Overall H	Flag H	Flag W	Flag Material	Brand	Item No.
Marking Flags with Steel Wire Staff, Pkg. of 100							
Blank	White	15 in	2 ½ in	3 ½ in	PVC	Presco	**3LUF4**
Blank	Lime	21 in	3 ½ in	2 ½ in	Vinyl	—	**5MD31**
Blank	Orange	21 in	3 ½ in	2 ½ in	Vinyl	—	**5MD29**
Blank	Pink	21 in	3 ½ in	2 ½ in	Vinyl	—	**5MD30**
Blank	Blue	21 in	4 in	5 in	Vinyl	—	**3JUZ3**
Blank	Green, Orange, Red, White, Yellow	21 in	4 in	5 in	PVC	Presco	**E9261**
Water Line	Blue	21 in	4 in	5 in	PVC	Presco	**3LUP6**
Buried Electric Line	Red	30 in	4 in	5 in	Plastic	Brady	**14H738**

Flags, Windsocks, and Pennants

Throwaway Warning Flags—Use to mark utility poles and rights of way, and to identify truck loads. Pkg. of 100.

Handheld Warning Flags—Fluorescent color provides high visibility. Reinforced to prevent ripping and tearing. Include 24" wooden dowel. 1EKR8 with plastic stay keeps the flag open.

Windsock Kits and Replacement Socks—Kits include a windsock and an aluminum mounting frame. Replacement windsocks are made of PVC and nylon for durability; color resists fading.

Banners—Message printed on one side with black letters. 52VP37 is constructed of vinyl coated 1000 denier polyester mesh fabric. Includes (6) grommets and (6) 40" ropes.

Colored Pennants—Sewn onto reinforced polypropylene cording.

Description	Color	H	W	Material	Brand	Item No.
Throwaway Warning Flag	Red	12 in	12 in	Vinyl	—	**1EKR9**
		16 in	16 in	Vinyl	—	**1EKT1**
Handheld Warning Flag	Fluorescent Red	24 in	18 in	Vinyl	—	**6FGK7**
	Fluorescent Orange	24 in	18 in	Vinyl	—	**1EKR7**
		18 in	18 in	Vinyl Coated Mesh	—	**3YWY4**
		24 in	24 in	Vinyl Coated Mesh	—	**3YWZ1**
		18 in	18 in	Vinyl Coated Mesh	—	**8CA99**
		18 in	18 in	Vinyl	—	**8AE39**
Handheld Warning Flag w/Stay		18 in	18 in	Vinyl	—	**1EKR8**
Airfield Vehicle Safety Flag	Orange/White	36 in	36 in	200 Denier Nylon	Annin Flagmakers	**33UF94**
Tractor Flag	Orange	16 in	15 in	Vinyl	—	**52WP77**
Windsock Kit		36 in	10 in	PVC-Lined Nylon	—	**3LWE4**
		48 in	18 in	PVC-Lined Nylon	—	**3LWE5**
		55 in	13 in	Polyester	—	**5YGF1**
		96 in	18 in	PVC-Lined Nylon	—	**3LWE6**
Replacement Windsock		36 in	10 in	PVC Covered Nylon	—	**3LWE7**
		48 in	18 in	PVC Covered Nylon	—	**3LWE8**
		55 in	13 in	Polyester	—	**5YGF2**
		96 in	18 in	PVC Covered Nylon	—	**3LWE9**
Oversize Load Banner	Yellow	18 in	84 in	Vinyl	—	**52VP37**
Wide Load Banner	Black/Yellow	18 in	96 in	Vinyl	—	**3YVU1**
Colored Pennants, 60 ft	Red	—	9 in	Vinyl	—	**1EKR5**
	Red/White	12 in	9 in	Vinyl	Cortina	**6FGK4**
	Yellow	12 in	9 in	Vinyl	Cortina	**6FGK5**
	Multicolor	12 in	9 in	Vinyl	Cortina	**1EKR6**
Colored Pennants, 100 ft	Red	12 in	9 in	Polyethylene	—	**9WM99**
	Yellow	12 in	9 in	Polyethylene	—	**8AE63**
	Multicolor	12 in	9 in	Polyethylene	—	**8PDR9**

1EKT3

1EKT4

3UTY4

1EKT6

20PF67

3LWG1

1EKT5

1EKT7

1EKT8

Traffic Barricades and Accessories

- Meet MUTCD and NCHRP 350, except 3YVX4, 20PF67, 20PF54, 3LUU8, and 1EKT5
- 13P868 and 13P869 are ADA Compliant to MUTCD

High-Intensity tape provides higher reflectivity than Engineer Grade.

Barricades—Used on highways and municipal roads, or as warning devices around potentially dangerous areas. Feature recessed and replaceable panels. Polypropylene construction. Accommodate flashing barricade lights, sold separately, this page.

Type 1—Single-striped panel has a 12" x 24" reflective top panel and a 4" x 24" nonreflective bottom panel.

Type 2—Two striped reflective panels are 8" x 24" on top and bottom.

Narrow Vertical Barricades—Easy to fold and transport.

Barricade Systems—All-plastic construction. For use in road closure situations where complete coverage is needed.

Type 3—Complete barricade system with three striped reflective panels; 6FGL0 8" x 48", 3LWG1 8" x 96", and 7Y499 8¼" x 48".

Barricade Weight Ballast—1EKT5 provides 4-lb. weight to barricade leg. 2KCX2 includes 2 arrow panels and hardware to convert a traffic barricade into a directional barricade.

A-Frame and P-Cade Legs—Used to protect workers in work zones and around manholes, and to cordon off restricted areas and parade routes. P-Cade Legs provide a continuous, obstruction-free guidance system. Lower rail will not trap canes. I-Beam is sold separately. An additional I-Beam can be mounted in the lower section of A-Frames for increased visibility. Weighted models include two 5-lb. inserts per leg.

I-Beams—Exterior-grade PVC provides year-round, all-weather durability.

Description	Tape Color	Frame Color	H	W	Panel L	Item No.
Barricades						
Engineer Grade						
Type 1	Orange/White	White	40 in	24 in	24 in	**1EKT3**
High-Intensity						
Type 1	Orange/White	White	40 in	24 in	24 in	**1EKV9**
Vinyl						
Type 1, P-Cade Legs	Orange/White	White	40 in	40 in	72 in	**13P868**
Type 1, P-Cade Legs	Orange/White	White	40 in	40 in	96 in	**13P869**
Engineer Grade						
Type 2	Orange/White	White	40 in	24 in	24 in	**1EKT4**
Type 2, Sand Fillable Ballast	Orange/White	White	45 in	24 in	24 in	**3UTY4**
High-Intensity						
Type 2	Orange/White	White	40 in	24 in	24 in	**1EKW1**
Type 2, Sand Fillable Ballast	Orange/White	White	45 in	24 in	24 in	**3UTY5**
Narrow Vertical Barricades						
Nonreflective						
Type 1, Sidewalk Closed	Black/Yellow	White	44 in	12 in	—	**6FGK9**
Type 1, Striped Panel, N-Cade Legs	Orange/White	White	44 in	12 ½ in	24 in	**13P872**
Type 1, Mowing	Orange/Black	Yellow	36 in	24 in	24 in	**13P877**
School Crossing	Lime/Black	Yellow	45 in	13 in	—	**3YVX4**
Engineer Grade						
Type 1, Striped Panel, N-Cade Legs	Orange/White	White	36 in	12 in	12 in	**1EKT6**
Unrated, Keep Left/with Arrow, A-Frame	White	White	45 in	25 in	24 in	**20PF67**
Unrated, Men Working, N-Cade Legs	White	White	45 in	13 in	12 in	**20PF54**
Unrated, Do Not Enter, N-Cade Legs	Yellow	Yellow	45 in	13 in	12 in	**3LUU8**
Barricade Systems						
Engineer Grade						
Type 3	Orange/White	White	66 in	48 in	—	**6FGL0**
Type 3	Orange/White	White	60 in	96 in	96 in	**3LWG1**
Type 3	Orange/White	White	64 in	48 in	48 in	**7Y499**
Barricade Accessories						
Barricade Weight Ballast	—	Black	2 in	2 in	—	**1EKT5**
Type 1, A-Frame Leg, Weighted	—	White	40 ½ in	29 in	—	**3LWE1**
P-Cade Leg	—	White	40 ½ in	29 in	—	**1EKT7**
I-Beam	—	White	8 in	60 in	72 in	**3LWF7**
I-Beam	Orange/White	Orange	8 in	2 in	72 in	**1EKT8**
I-Beam	Orange/White	Orange	8 in	2 in	—	**8YJC6**

TAPCO Safe travels. Railhead Gear

Flashing Barricade Lights

- Meet MUTC and ITE Specifications

Durable polycarbonate lenses with LED lamps. Light settings vary from steady burn to flashing to Off (see table). Photocell activates light from dusk to dawn and helps conserve battery power. Handle on 48TL08 makes it easy to move.

493Y05

35T130

48TL08

Power Source	Includes	Head Dia.	Color	Light Setting	Flashes/ Minute	Lamp Life	Brand	Item No.
Battery	(4) D Batteries	7 in	Amber/Yellow Case	Flashing, Off, Steady Burn	60 to 120	100,000 hr	Tapco	**493Y04**
Battery	(4) D Batteries	7 in	Amber/Orange Case		60 to 120	100,000 hr	Tapco	**493Y05**
Battery	(4) D Batteries	7 in	Amber/Gray Case		60 to 120	100,000 hr	Tapco	**493Y06**
Solar	Mounting Bolt and Tool	7 ½ in	Amber	Flashing, Steady Burn	60	60 hr	—	**12R462**
Solar	Mounting Bolt and Tool	7 ½ in	Red		60	120 hr	—	**35T130**
Solar	Bolt and Switch Pin, LED Bulb	7 ½ in	Amber	Flashing, Off	55	20,000 hr	—	**26K992**
Solar	Bolt and Switch Pin, LED Bulb	3 25⁄32 in	Red		60	20,000 hr	—	**45EG65**
Solar	Battery	7 in	Red	Flashing, Steady Burn	65	20,000 hr	—	**489N94**
Solar	Rechargeable Battery, Handle	7 ¼ in	Blue	Flashing	60	43,800 hr	Railhead Gear	**48TL08**

Colonial Red
J0991

Yellow
E5325

3EXA7

TufTile ULTRATECH INTERNATIONAL, INC.

ADA Warning Pads

- TufTile pads comply with ADAAG/PROW/CA Title 24
- UltraTech pads comply with ADA 49 CFR 37.9

Raised, truncated-dome pads can be felt by the visually impaired with their feet and tapping cane.

TufTile pads are replaceable. Made of UV stabilized, high-impact polymer that is impact-, slip-, and wear-resistant and provides superior color stability and strength.

UltraTech pads are unbreakable, flexible urethane material that conforms to fit dips, slopes, and inclines in sidewalks and intersections.

Wet Set Pads—Pressed into freshly poured concrete. Each includes factory-installed anchors with tamper-resistant stainless steel fasteners.

Surface-Mount Pads—Install quickly and easily onto cured concrete.

TufTile pads feature low-profile design and beveled edges. Include anchors, tamper-resistant stainless steel fasteners, sealant, and a masonry bit.

UltraTech pads include adhesive and anchors.

▶CHOOSE: Color	W	L	Brand	Item No.
Wet Set Pads				
Brick Red, Colonial Red, Yellow	2 ft	5 ft	TufTile	J0991
Surface-Mount Pads				
Black, Yellow, Brick Red	2 ft	2 ft	UltraTech	E5324
Brick Red, Colonial Red, Yellow	2 ft	2 ft	TufTile	H4138
Brick Red, Colonial Red, Yellow	2 ft	3 ft	TufTile	H4141
Yellow, Brick Red, Black	2 ft	3 ft	UltraTech	E5325
Brick Red, Black	2 ft	4 ft	UltraTech	E5326
Brick Red, Colonial Red, Yellow	2 ft	4 ft	TufTile	H4144
Epoxy Adhesive				
Tan	—	—	UltraTech	3EXA7

3M

Raised Pavement Markers

Retroreflective polymer markers are highly visible at night and in rainy conditions. Durable construction includes rumble effect for increased awareness. Finger grips for easy application with pressure-sensitive adhesive. Pkg. of 100.

Description	Color	W	L	Item No.
One-Way Markers				
Markers Only	White	3 ¾ in	4 in	49ZW06
Markers with Pressure Sensitive Adhesive Backing	White	3 ¾ in	4 in	49ZW13
Markers Only	Yellow	3 ¾ in	4 in	49ZW07
Two-Way Markers				
Markers Only	Blue	3 ¾ in	4 in	49ZW12
Markers with Pressure Sensitive Adhesive Backing	Blue	3 ¾ in	4 in	49ZW17
Markers Only	White	3 ¾ in	4 in	49ZW09
Markers with Pressure Sensitive Adhesive Backing	White	3 ¾ in	4 in	49ZW14
Markers Only	White/Red	3 ¾ in	4 in	49ZW08
Markers with Pressure Sensitive Adhesive Backing	White/Red	3 ¾ in	4 in	49ZW15
Markers Only	Yellow	3 ¾ in	4 in	49ZW10
Markers with Pressure Sensitive Adhesive Backing	Yellow	3 ¾ in	4 in	49ZW16
Markers Only	Yellow/Red	3 ¾ in	4 in	49ZW11

49ZW06

49ZW12

49ZW11

TAPCO Safe travels.

TMP Temporary Pavement Markers

Provide high visibility day and night. Offer 1.6 sq. in. of reflective area. For construction zones; designed for use with or without temporary tape or paint. Install with Adhesive Pads, sold separately. Pkg. of 100.

Color	W	L	Item No.
One-Way Markers			
Amber	4 in	4 in	38A881
White	4 in	4 in	38A883
Two-Way Markers			
Amber	4 in	4 in	38A882
White	4 in	4 in	38A884
Adhesive Pads			
Black	4 in	4 in	38A885

38A882

38A884

Adhesive Pad

HARRIS INDUSTRIES, INC. BRADY

Reflective Temporary Pavement-Marking Tape

Apply to asphalt or concrete. Can be removed or paved over. Harris tape is metallic film with pressure-sensitive adhesive backing. Brady tape is glass bead-coated paper with foil backing.

Color	W	L	Brand	Item No.
Yellow	2 in	150 ft	Harris	3KJZ3
Yellow	4 in	150 ft	Brady	20TL02
White	4 in	150 ft	Harris	3KJZ5
White	4 in	150 ft	Brady	20TL01

20TL02

3KJZ5

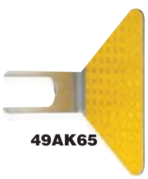
TAPCO Safe travels.

Guardrail Reflectors

Feature 8 sq. in. of high-intensity sheeting per side and galvanized steel construction. Bolt-on installation.

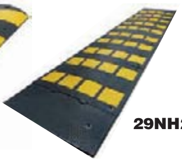
Description	Color	Item No.
Two-Sided	White	49AK64
	Amber	49AK65

49AK64



49AK65

29NH35


29NH25

33K180

2GTG6

49ZZ35

Speed Bumps, Cable Ramps, and Mounting Kits

- Rubber products are made from 100% recycled content

Speed Bumps—Use to aggressively slow down traffic close to a stop. Also cover cabling, piping, and have channeled bottom for drainage. Bumps with hardware included allow easy installation and different length requirements. Include 1 center, 2 end modules, and mounting hardware.

Alley Bumps—Multipiece bumps address cut-through traffic in alleyways by drastically slowing vehicle speed. One center and two end modules are included to accommodate different length requirements.

Portable Speed Bump—Protect workers and pedestrians in 15 to 45 mph speed areas by helping to temporarily control traffic flow. Bump conforms to virtually any road surface and can be deployed and retrieved in seconds.

Note: This temporary solution is not meant to be left unattended or used on high-speed roads.

Speed Humps—Use on roadways to moderately slow traffic. Humps alert drivers of pedestrians and hazards ahead.

Cable Ramps—Drop-over ramps are placed over cable and hose lines that run along the ground and they are lightweight. 2GWL7 to 2GWL9 are wider to increase channel height while retaining incline. Aluminum ramps have a serrated surface to increase traction, and they're lightweight for portability. Polyurethane ramps have indents for traction and are weather- and chemical-resistant.

Speed Bump Glue Down Kits—For applications where drilling holes in the mounting surface is not recommended. For 72"L speed bumps order 2 Glue Down Kits 5XPR8.

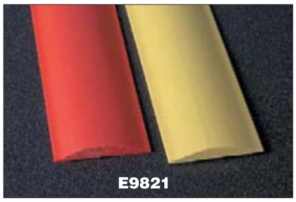
H	W	L	Color	Item No.
Speed Bumps, Rubber				
2 ¼ in	12 in	4 ft	Black/Yellow	**29NH40**
2 ¼ in	12 in	6 ft	Black/Yellow	**29NH35**
Speed Bumps with Concrete Mounting Hardware, Rubber				
1 ⅛ in	24 in	9 ft	Black/Yellow	**29NH25**
2 in	36 in	10 ft	Black/Yellow	**29NH27**
Speed Bumps with Asphalt Mounting Hardware, Rubber				
1 ⅛ in	24 in	9 ft	Black/Yellow	**29NH26**
2 in	36 in	10 ft	Black/Yellow	**29NH28**
Alley Bumps, Rubber				
3 in	12 in	4 ft	Black/Yellow	**49ZZ35**
3 in	12 in	6 ft	Black/Yellow	**49ZZ36**
Portable Speed Bump, Plastic				
1 ¾ in	8 ¾ in	10 ft	Yellow	**33K180**

H	W	L	Color	Item No.
Speed Humps, Rubber				
2 in	19 ¾ in	3 ft	Black/Yellow	**49ZZ29**
2 ⅒ in	19 ½ in	35 ½ in	Black/Yellow	**49ZZ38**
Cable Ramps, Aluminum				
1 ⅛ in	7 ⅛ in	3 ft	Silver	**1TFT9**
1 ⅛ in	7 ⅛ in	4 ft	Silver	**1F141**
1½ in	9 ⅛ in	36 in	Silver	**2GWL7**
1½ in	9 ⅛ in	48 in	Silver	**2GWL8**
1½ in	9 ⅛ in	72 in	Silver	**2GWL9**
Cable Ramp with 6 Anchor Spikes, 1 Tube Asphalt Adhesive, Polyurethane				
2 in	10 in	6 ft	Yellow	**2GTG6**
Cable Ramp with 8 Anchor Spikes, 1 Tube Asphalt Adhesive, Polyurethane				
2 in	10 in	9 ft	Yellow	**2GTG7**

Description	H	W	L	Item No.
Speed Bump Asphalt Installation Kits				
For Use with 2VDC1 and 5XPR5	6 in	7 in	13 in	**2VDC2**
For Use with 5XPR6	6 in	7 in	13 in	**4UP95**
For Use With 4UP94	6 in	7 in	13 in	**5ZW59**
Speed Bump Glue Down Kits				
For Use With 48 in L Speed Bumps w/3-Holes	4 in	5 in	9 in	**5XPR7**
For Use With 36 in L Speed Bumps w/4-Holes	4 in	5 in	9 in	**5XPR8**
For Use With 108 in L Speed Bumps w/5-Holes	4 in	5 in	9 in	**5XPR9**
Speed Bump End Cap				
For Use with 29NH40 and 29NH35	2¼ in	12 in	9 in	**29NH36**
Speed Bump Traffic Sign - Lyle Brand				
Legend: Caution Speed Bumps Ahead, Aluminum Material	18 in	12 in	—	**36A808**

Rumble Strips

Surface-mounted transverse bars provide a tactile and audible warning to alert motorists of hazardous conditions ahead or to slow down. Mount to roads or other surfaces with Epoxy Adhesive, sold separately below. 8VRW9 coverage area: Part A and Part B adheres 6 rumble strips.


E9821

Description	Material	H	W	L	▶CHOOSE: Color	Item No.
Rumble Strips	Thermoplastic Alloy	½ in	4 in	6 ft	Red, Yellow	**E9821**
Epoxy Adhesive—Includes (1) qt. Each of Part A and B Components						**8VRW9**

29NH30

29NH34

491T27

2GTG3

Parking Curbs and Mounting Kits

- Rubber Parking Curbs are made from 100% recycled content
- Mounting kits sold separately

Curbs prevent vehicles from pulling through parking spots and keep cars a safe distance from each other in parking lots.

Description	H	W	L	Material	Color	Item No.
Parking Curbs						
Installs to Asphalt with Spikes	4 in	6 in	3 ft	Rubber	Black/Yellow	**490W86**
Installs to Concrete with Bolts	4 in	6 in	3 ft	Rubber	Black/Yellow	**490W87**
Installs to Asphalt, Concrete with Bolts, Spikes	4 in	6 in	1 ft 10 in	Rubber	Black/Yellow	**29NH30**
	4 in	6 in	4 ft	Rubber	Black/White	**29NH42**
	4 in	6 in	4 ft	Rubber	Black/Yellow	**29NH41**
	4 in	6 in	6 ft	Rubber	Blue/White	**29NH34**
	4 in	6 in	6 ft	Rubber	Black/White	**29NH32**
	4 in	6 in	6 ft	Rubber	Black/Yellow	**29NH31**
	4 in	6 in	6 ft	Rubber	Red/White	**29NH33**
Installs to Asphalt, Concrete with Bolts on Asphalt, Spikes on Concrete	4 in	6 in	4 ft	Rubber	Black/Yellow	**49ZZ24**
	4 in	6 in	4 ft	Rubber	Black/White	**49ZZ25**
Installs to Asphalt, Concrete with Bolts on Concrete, Spikes on Asphalt	4 in	6 in	6 ft	Rubber	Black/Yellow	**49ZZ26**
	4 in	6 in	6 ft	Rubber	Black/White	**49ZZ27**
	4 in	6 in	6 ft	Rubber	Blue/White	**49ZZ28**
Installs to Asphalt, Concrete with Spikes	4 in	6 in	6 ft	Polyethylene	White	**491T27**
Installs to Asphalt, Concrete with Asphalt Adhesive, Spikes	4 in	8 in	6 ft	Polyethylene	Black/Yellow	**8PHZ1**
	4 in	8 in	6 ft	HDPE	Blue	**2GTG5**
	4 in	8 in	6 ft	HDPE	Gray	**2GTG4**
	4 in	8 in	6 ft	HDPE	Yellow	**2GTG3**

Description	H	W	L	Material	Color	Item No.
Mounting Kits						
Asphalt						
For Parking Curbs and Speed Bumps w/2-Holes	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**2VDA7**
For 72 in L Parking Curbs	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**4UP84**
For Parking Curbs and Speed Bumps w/4-Holes or Less	12½ in	6 in	5⅜ in	Rubber, Steel	Gray	**2VDA9**
Concrete						
For Parking Curbs and Speed Bumps w/2-Holes	6⅜ in	¾ in	¾ in	Steel	Silver	**2VDA6**
For 72 in L Parking Curbs	6⅜ in	¾ in	¾'	Rubber, Steel	Silver	**4UP82**
For Parking Curbs and Speed Bumps w/4-Holes or Less	6⅜ in	¾ in	¾ in	Steel	Silver	**2VDA8**
Parking Curb Glue Down Kit						
For Use With 48 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR2**
For Use With 72 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR3**
For Use With 96 in L Car Stops	⅝ in	5 in	5 in	Stainless Steel, Steel	Silver	**5XPR4**
Accessories						
Lag Bolts				Steel	Silver	**29NH37**
Lag Bolts Shields				Aluminum	Silver	**29NH38**
Rebar Spikes				Steel	Silver	**29NH39**

Trench Covers

PLASTICADE®

Covers protect trenches containing cable, wire, fluid, and other sensitive materials. They are load-rated to withstand traffic from cranes, forklifts, and other heavy machinery. The antislip surfaces and beveled edges help prevent slips, trips, and falls.

20PF72

L	W	Max. Trench Width	Item No.
63 in	47.2 in	35 in	**20PF70**
47.2 in	31.5 in	27 in	**20PF71**
44.3 in	44.3 in	27 ½ in	**20PF72**

Orange
J2254

Jersey Traffic Barriers

Fill versatile plastic barriers with sand or water for stability; empty barriers for easy transport. Interlocking joints let you connect multiple units to cover larger areas. Commonly used to separate lanes of traffic. Offers diamond grade retroreflective stripes for visibility. Accepts a standard barricade light, sold separately on page 1927.

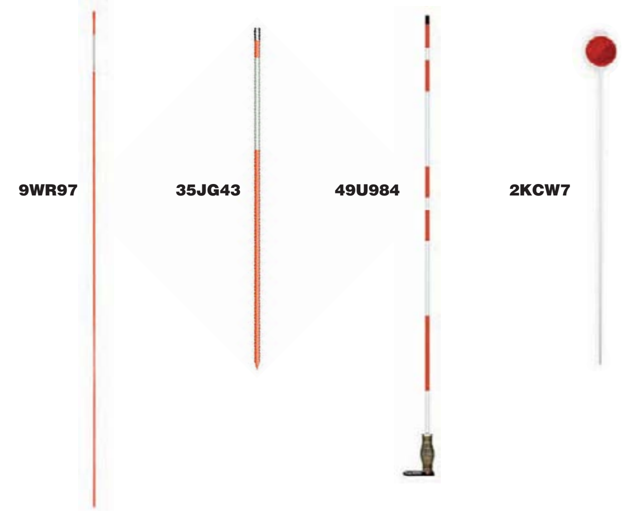
H	W	L	▶CHOOSE: Color	Item No.
24 ½ in	16 ½ in	58 ¼ in	Yellow, Orange, White, Spruce Green	J2254
34 in	18 in	73 ¾ in	Yellow, Orange, White, Spruce Green	J2255

Orange G6577 — Yellow G9281 — 1EKU6 — Orange H9744

Traffic Delineator Posts

Plastic posts have high-intensity, prismatic retroreflective collars with (2) 3 in H reflective stripes. Each feature a flexible, rugged design, allowing them to return upright after impact. Posts are impact-resistant and attach to bases with 2 quick-release pins. Ideal for parking lots, pedestrian walkways, and temporary work zones. Butyl **Adhesive Pads** offer quick, reliable adhesion for temporary installation of **Surface Mount Posts**.

Description	H	▶CHOOSE: Color	Top Style	Delineator Dia.	Base Material	Base Shape	Item No.
Portable Posts	36 in	White, Yellow, Black, Orange	Flat	3 in	Polyurethane	Round	G6577
Portable Posts	48 in	White, Yellow, Black, Orange	Flat	3 in	Plastic	Round	G6578
Portable Posts	45 in	Orange, Blue, White, Yellow, Green	Looper	4 in	Rubber	Square	G9281
Permanent Mount Post	42 in	Orange	Looper	4 in	Polycarbonate	Round	1EKU6
Surface Mount Posts	28 in	White, Yellow, Orange	Flat	3 in	Plastic	Round	H9743
Surface Mount Posts	36 in	White, Yellow, Orange	Flat	3 in	Plastic	Round	H9744
Adhesive Pads for Use With H9743 and H9744, 8 in L x 8 in W							3UTX7



9WR97 — 35JG43 — 49U984 — 2KCW7

Reflective Property, Driveway, and Hydrant Markers

Property and Driveway Markers push into the ground on property lines or at the edge of a driveway. **Hydrant Markers** make hydrants more visible from a distance and help to locate them under snow drifts.

Post Color	Post Material	Overall H	Reflector Color	Features	Item No.	Pkg. Qty.
Property Markers						
High Visibility Yellow	Fiberglass	48 in	No Reflector	Reflector Housing Made From Unbreakable ABS Material, Sonic Welded Lens	9TL27	12
Orange	Fiberglass	72 in			9WR97	12
Driveway Markers						
Lime/White	Fiberglass	48 in		Reflective Tape and Metal Cap for Easy Installation	35JG42	10
Orange/White	Fiberglass	48 in			35JG43	10
Hydrant Markers						
Red/White	Fiberglass	60 in	No Reflector	Corrosion-Resistant, UV-Resistant, Vandal-Proof	49U984	1
Red/White	Fiberglass	84 in			49U986	1
Red/White	Fiberglass	84 in			49U988	1
Driveway Markers—With 3 in H Top Reflector						
White	Fiberglass	48 in	Blue	Reflector Housing Made From Unbreakable ABS Material, Sonic Welded Lens	2KCW6	10
White	Fiberglass	48 in	Red		2KCW7	10
White	Fiberglass	48 in	Amber		2KCW8	10
White	Fiberglass	48 in	Clear		2KCW9	10
Driveway Markers—With 5 ¼ in H Top Reflector						
Black	Steel	48 in	Yellow	Diamond Shaped Head	49VZ22	12
Black	Steel	48 in	Blue		49VZ23	12
Black	Steel	48 in	Red		52ZW80	12

Traffic Delineator System

Cortina Safety Products

- Meets MUTCD

Portable delineator posts safely mark proper traffic flow for parking lots, roads, and school zones. System guides motorized and pedestrian traffic on roadways and paths.

Includes	Delineator Color	Delineator Tape Color	Base Dim.	Item No.
(30) Posts, (30) Bases, (6) 60 ft Rolls of Flags	Orange	Silver	15 x 17 in	26K995

BRADY

Marking Stakes

Mark underground pipelines, cables, etc. Reinforced polymer bends and will not break. Reflective sheeting on 6G746 and 6G747 makes stakes visible 24/7.

Post Color	Tape/ Decal Color	H	W	Item No.
Reflective Marking Stakes				
Orange	Orange/White	66 in	3¾ in	6G746
Yellow	Black/Yellow	66 in	3¾ in	6G747
Nonreflective Marking Stakes				
Orange	—	66 in	3¾ in	6G754
Yellow	—	66 in	3¾ in	6G755

6G746 — 6G755

Traffic Channelizer Cones and Bases

Channelizer Cones indicate hazards and direct foot and vehicle traffic. They're more narrow than standard traffic cones for use where space is limited. They are also used to temporarily block access to restricted areas where work is being done. High-Intensity tape provides higher reflectivity than Engineer Grade. Handle choices for easy movement and placement. Stackable for storage. Accept standard barricade lights, sold separately on page 1927. All cones are made of HDPE, except 45YJ67 to 45YJ70 are polyethylene.

45YJ67 to 45YJ70 offer slotted handles designed to string tape, chains, cone bars, and more. Include a black plastic, octagon-shape base that can be filled with sand.

Black recycled rubber **Bases** offer stability to keep cones upright.

H	Dia.	▶CHOOSE: Cone Color	Tape Material	Tape Color	No. and H of Reflective Stripes	Top Style	Meets MUTCD	Item No.
Channelizer Cones								
36 in	8 in	Lime, Orange	None	None	No Tape	Grabber	No	**K6950**
36 in	8 in	Lime, Orange	High-Intensity	White	(1) 4 in, (1) 6 in	Grabber	Yes	**K6951**
42 in	8 in	Lime, Orange	None	None	No Tape	Grabber	No	**K6952**
42 in	8 in	Lime, Orange	High-Intensity	White	(1) 4 in, (1) 6 in	Grabber	Yes	**K6953**
42 in	9.6 in	Orange	None	None	No Tape	Slotted	Yes	**45YJ68**
42 in	9.6 in	Orange	Engineer Grade	Silver	(1) 4 in, (1) 6 in	Slotted	Yes	**45YJ69**
42 in	9.6 in	Yellow	Engineer Grade	Silver	(1) 4 in, (1) 6 in	Slotted	No	**45YJ67**
42 in	9.6 in	Yellow	None	None	No Tape	Slotted	No	**45YJ70**
Trimline Channelizer Cones								
45 in	6 in	Blue, White, Yellow	High-Intensity	Silver	(1) 4 in, (1) 6 in	Looper	Yes	**G6579**
49 in	7 in	Orange	High-Intensity	White	(1) 4 in, (1) 6 in	Looper	Yes	**13P890**
49 in	7 in	Orange	Engineer Grade	White	(4) 4 in	Looper	Yes	**13P889**
49 in	4 in	Orange	Engineer Grade	White	(4) 6 in	Looper	Yes	**13P888**
49 in	4 in	Orange	Diamond Grade	White	(4) 6 in	Looper	Yes	**13P892**
49 in	7 in	Orange	High-Intensity	White	(4) 6 in	Looper	Yes	**13P891**

For Use With	Wt.	H	W	L	Item No.
Bases					
Use with 36 in H Channelizer Cones	10 lb	2 ½ in	20 in	17 in	**35KJ32**
Use with 36 in H Channelizer Cones	15 lb	2 ½ in	20 in	17 in	**35KJ33**
Use with 42, 45, and 49 in H Channelizer Cones	10 lb	1 ½ in	15 in	17 in	**13P907**
Use with 42, 45, and 49 in H Channelizer Cones	16 lb	2 in	17 in	20 in	**13P903**
Use with 42, 45, and 49 in H Channelizer Cones	30 lb	3 in	14 ½ in	30 in	**13P908**

Lime K6951 and 35KJ32 (Channelizer Cone and Base sold separately.)

Orange K6952

45YJ69

13P888

Traffic Vertical Panel Channelizer Cones and Bases

Stackable cones warn of hazards and direct foot and vehicle traffic. Narrow design is ideal where space is limited. Often used to temporarily block access to restricted work areas.

Channelizer Cones have (3) 4"H white reflective stripes and an oversize handle with comfort grip. They are equipped with recessed panels to protect sheeting. Built with a mounting receptacle for flashing light, sold separately on page 1927. High-Intensity tape provides higher reflectivity than Engineer Grade. Meet NCHRP 350.

Recycled rubber black **Bases** attach to the bottom of panel channelizer posts and provide a flat surface so the posts can stand upright. 13P905 meets NCHRP 350.

H	Cone Color	Material	Tape Material	Top Style	Item No.
Vertical Panel Channelizer Cones					
40 in	White/Orange	HDPE	Engineer Grade	Looper	**13P897**
40 in	White/Orange	HDPE	High-Intensity	Looper	**13P898**

For Use With	Wt.	H	W	L	Brand	Item No.
Bases						
Use with Channelizer Cones	15 lb	1 5/16 in	18 ½ in	22 in	Cortina	**56JD57**
Use with Channelizer Cones	20 lb	1 in	18 in	22 in	—	**13P905**
Use with Channelizer Cones	30 lb	2⅝ in	18½ in	22 in	Cortina	**56JD58**

13P897 and 13P905 (Channelizer Cone and Base sold separately.)

Traffic Barrels and Bases

- Barrels and Bases meet NCHRP 350; 13P893 to 13P896 and 13P904 also meet MUTCD requirements

Orange plastic **Traffic Barrels** indicate hazards and restrict access to work zones. The wide body makes them more visible than standard traffic cones. The larger size and added weight also provide more stability than standard traffic cones when used for long periods of time. Barrels stack easily with stepped sides to prevent sticking and contain UV inhibitors to resist fading. High-Intensity tape provides higher reflectivity than Engineer Grade. Top handle has 2 bolt holes for 1 barricade light, sold separately on page 1927.

Use black recycled rubber **Bases** to add stability to barrels.

H	Dia.	Barrel Material	Tape Material	Tape Color	No. of Reflective Stripes	Reflective Stripe H	Item No.
Traffic Barrels							
41 ½ in	18 in	HDPE	Engineer Grade	White	4	4 in	**13P893**
41 ½ in	18 in	HDPE	Engineer Grade	White	4	6 in	**13P894**
41 ½ in	18 in	HDPE	High-Intensity	White	4	4 in	**13P895**
41 ½ in	18 in	HDPE	High-Intensity	White	4	6 in	**13P896**
44 ¼ in	17 ½ in	Polyethylene	High-Intensity	(2) White and (2) Orange	4	4 in	**3LWF1**

For Use With	Wt.	H	W	L	Item No.
Bases					
Use with Traffic Barrels	22.5 lb	3 in	32 in	32 in	**13P904**
Use with 3LWF1	16 lb	2 in	22 in	22 in	**3LWF2**

13P893

3LWF1

Traffic Cones

6FHA1 6FHC3

6FHA3 6FGZ7

- Meet MUTCD

Flexible, injection-molded cones withstand high-speed impacts and snap back into shape. All cones are made of PVC, except H1545 is polyethylene. Stackable for easy storage with square bases. Lime color differentiates a work zone from an emergency zone.

Note: May not be approved for highway projects in all states.

Recessed Collar	Cone Color	Base Color	Cone H	No. of Reflective Stripes	Reflective Stripe H	Base Dim./ Storage Size	Item No.
Standard Shape with Retroreflective Stripes							
No	Fluorescent Lime	Fluorescent Lime	18 in	1	6 in	11 in	**6FHA6**
No			28 in	2	(1) 4 in, (1) 6 in	14 ½ in	**6FHA7**
No			36 in	2	(1) 4 in, (1) 6 in	14 in	**6FHA8**
No	Orange	Orange	18 in	1	6 in	10 ½ in	**6FHA0**
Yes			18 in	2	6 in	10 ¾ in	**6FHC5**
No		Black	18 in	2	6 in	11 in	**6FHC2**
No		Orange	28 in	2	(1) 4 in, (1) 6 in	14 ½ in	**6FHA1**
Yes			28 in	1	6 in	14 ½ in	**6FHC6**
No		Black	28 in	1	(1) 4 in, (1) 6 in	14 ¼ in	**6FHC3**
No		Orange	28 in	2	(1) 4 in, (1) 6 in	14 ⅝ in	**6VKG9**
No			36 in	2	(1) 4 in, (1) 6 in	14 ½ in	**6FHA2**
Yes			36 in	2	(1) 4 in, (1) 6 in	14 in	**6FHC7**
No		Black	36 in	2	(1) 4 in, (1) 6 in	14 ¾ in	**6FHC4**
Slim Shape with Retroreflective Stripes							
No	Orange	Orange	18 in	1	6 in	10 ½ in	**6FGZ4**
No			28 in	2	(1) 4 in, (1) 6 in	13 in	**6FGZ5**
No			36 in	2	(1) 4 in, (1) 6 in	13 ½ in	**6FGZ6**

Recessed Collar	Cone Color	Base Color	Cone H	Base Dim./ Storage Size	Item No.
Standard Shape—Include Caution Wet Floor Legend					
No	Orange	Orange	18 in	11 in	**6FHC8**
Standard Shape					
No	Fluorescent Lime	Fluorescent Lime	18 in	11 in	**6FHA3**
No			28 in	14 ½ in	**6FHA4**
No			36 in	14 ½ in	**6FHA5**
No	Orange	Orange	4 in	4 in	**6FGY6**
No		Black	6 in	8 in	**6FGY9**
No		Orange	6 in	6 in	**6FGY7**
No		Black	12 in	8 in	**6FGZ0**
No		Orange	12 in	8 in	**6FGY8**
No			18 in	10 ½ in	**6FGZ7**
No		Black	18 in	11 in	**6FHA9**
No		Orange	28 in	14 ½ in	**6FGZ8**
No		Black	28 in	14 in	**6FHC0**
No		Orange	36 in	14 ½ in	**6FGZ9**
No		Black	36 in	14 ¾ in	**6FHC1**
Slim Shape					
No	Orange	Orange	18 in	10 ½ in	**6FGZ1**
No			28 in	13 in	**6FGZ2**
No			36 in	13 ½ in	**6FGZ3**

Recessed Collar	▶CHOOSE: Cone/Base Color	Cone H	Base Dim./ Storage Size	Item No.
Standard Shape				
No	Blue, Green, Red, White, Yellow	18 in	11 in	**H1545**

Traffic Cones

53WN64 53WN66

53WN60 53WN49

- Meet MUTCD

Durable and flexible PVC construction, won't fade or melt! Patented inter-locking black square base won't separate from body. Retroreflective cones: polyethylene retroreflec-tive collar material is impact resistant.

Recessed Collar	Cone Color	Cone H	No. of Reflective Stripes	Reflective Stripe H	Base Dim./ Storage Size	Item No.
Standard Shape with Retroreflective Stripes						
No	Blue	28 in	2	(1) 4 in, (1) 6 in	14 in	**53WN59**
No	Lime	18 in	1	6 in	10 ½ in	**53WN53**
No	Lime	28 in	1	6 in	14 in	**53WN79**
No	Orange	12 in	1	6 in	8 ⅝ in	**53WN50**
No	Orange	18 in	1	6 in	10 ½ in	**53WN52**
No	Orange	28 in	1	6 in	14 ⅛ in	**53WN56**
Yes	Orange	28 in	1	6 in	14 in	**53WN62**
Yes	Orange	28 in	1	6 in	14 ¾ in	**53WN68**
No	Orange	28 in	2	(1) 4 in, (1) 6 in	14 ⅛ in	**53WN57**
Yes	Orange	28 in	2	(1) 4 in, (1) 6 in	14 in	**53WN80**
Yes	Orange	28 in	2	(1) 4 in, (1) 6 in	14 ⅛ in	**53WN83**
Yes	Orange	36 in	1	6 in	14 ½ in	**53WN72**
Yes	Orange	36 in	1	6 in	14 ¾ in	**53WN75**
Yes	Orange	36 in	2	(1) 4 in, (1) 6 in	14 ½ in	**53WN84**
Yes	Orange	36 in	2	(1) 4 in, (1) 6 in	14 ¾ in	**53WN85**
Yes	Orange	36 in	2	(1) 4 in, (1) 6 in	17 in	**53WN86**
No	Yellow	28 in	2	(1) 4 in, (1) 6 in	14 in	**53WN64**
Slim Shape with Retroreflective Stripes						
Yes	Orange	28 in	1	6 in	14 ⅛ in	**53WN66**

Recessed Collar	Cone Color	Cone H	Base Dim./ Storage Size	Item No.
Standard Shape				
No	Blue	28 in	14 in	**53WN60**
No	Lime	18 in	10 ½ in	**53WN54**
No	Lime	28 in	14 in	**53WN61**
Yes	Lime	36 in	14 ½ in	**53WN73**
No	Orange	12 in	8 ⅝ in	**53WN49**
No	Orange	18 in	10 ½ in	**53WN51**
No	Orange	28 in	14 ⅛ in	**53WN55**
No	Orange	28 in	14 in	**53WN58**
Yes	Orange	28 in	14 ½ in	**53WN71**
Yes	Orange	36 in	14 ¾ in	**53WN74**
Yes	Orange	36 in	17 in	**53WN76**
No	Yellow	28 in	14 in	**53WN63**
Slim Shape				
No	Orange	28 in	14 ⅛ in	**53WN65**
No	Orange	28 in	14 ⅛ in	**53WN69**
Mini Shape				
No	Orange	4 in	3 in	**53WN78**

9XPY3 (Traffic Cones sold separately.)

1EKW2

6FGL4

Traffic Cone Accessories

Traffic Cone Bar—1 19⁄32"-dia. PVC bar includes two rings to lay on top of cones. May be used with any size traffic cone, including 28" or 36" wide-body cones.

Cone Holder and Clip—Holder 1EKW2 attaches to vehicle bumper to hold and transport stacked 18" or 28" cones. Steel construction with enamel finish. Clip 6FGJ6 attaches barrier tape to cone, to quickly cordon off and secure areas.

Stabilizer Weights—Fit over cones for increased stability.

Traffic Cone Signs—ABS plastic signs easily attach to cones and open top delineators. 11"W x 13"H.

Portable Traffic Cone Cart—Heavy-duty dolly easily transports traffic cones. Durable and stable construction.

Description	Color	Item No.
Reflective Telescoping Traffic Cone Bar		
5 to 9-ft.	Orange	**9XPY3**
Cone Holder and Clip		
Traffic Cone Holder, 22 in H	Steel	**1EKW2**
Barrier Tape Clip, Pkg. of 5	White	**6FGJ6**
Stabilizer Weights		
5 lb Fits 18 in Cones	Black	**6FGY4**
6 lb Fits 28 and 36 in H Cones	Black	**6FGY3**
Traffic Cone Signs		
Caution	Orange	**2KCV3**
Do Not Enter	Orange	**2GWJ7**
Handicapped Symbol	Blue	**2KCV4**
Lot Full	Orange	**6FGL7**
Men Working	Orange	**6FGL2**
No Parking Symbol	White	**2KCV5**
Reserved	Orange	**6FGL3**
Reversible Arrow	Orange	**2GWJ8**
Sidewalk Closed	Orange	**6FGL4**
Slow Traffic	Orange	**2KCV6**
Wet Paint	Orange	**6FGL6**
Workers Ahead	Orange	**6FGL5**
Portable Traffic Cone Cart		
45 in L x 16 in W x 14 in H	Black	**26K999**

Safety and Security Mirror Selection Information

Choose a mirror with the lens and backing that suits your application.

MIRROR LENS

Acrylic: Lightweight, strong, and shatter-resistant. 20% brighter than glass.

Scratch-Resistant Acrylic: Special coating keeps surface smooth and resistant to scratching.

Polycarbonate: Strong, virtually unbreakable, and shatter-resistant.

MIRROR BACKING

Hardboard: Strong. For indoor or covered outdoor use.

Plastic: Lightweight. For indoor or covered outdoor use.

Steel: Impact- and corrosion-resistant for extreme conditions.

1CYX5

1CYZ1

2GVT6

20LP36

Convex Mirrors

- 160° viewing angle
- Every 1 in dia. of mirror provides 1 ft. viewing distance

Help increase aisle visibility, reduce blind spots, and prevent accidents at intersections. Mirrors enlarge the size of the reflected image and expand the field of view from a single location. Ideal for high-security areas. All mirrors include mounting hardware.

Mirror Shape	Mirror Environment	Mirror Material	Dim.	Mounting Type	Rim Type	Item No.
Acrylic Lens with Hardboard Backing						
Rectangular	Indoor	Acrylic	12 in H x 12 in W	Swivel Telescope		**31AX36**
Rectangular	Indoor	Acrylic	12 in H x 18 in W	Pedestal Stand		**31AX45**
Rectangular	Indoor	Acrylic	15 in H x 24 in W	Pedestal Stand		**31AX46**
Rectangular	Indoor	Acrylic	15 in H x 24 in W	Swivel Telescope	Vinyl Coated	**31AX37**
Rectangular	Indoor	Acrylic	20 in H x 20 in W	Swivel Telescope	Aluminum	**31AX38**
Rectangular	Indoor	Acrylic	24 in H x 24 in W	Swivel Telescope		**31AX39**
Rectangular	Indoor/ Outdoor	Acrylic	15 in H x 24 in W	2 Swivel Telescope		**31AX41**
Round	Indoor	Acrylic	12 in dia	Z Bracket	Aluminum	**3YRN2**
Round	Indoor	Acrylic	18 in dia	Z Bracket	Vinyl Coated Aluminum	**420H92**
Round	Indoor	Acrylic	18 in dia	Z Bracket	Aluminum	**1CYX5**
Round	Indoor	Acrylic	26 in dia	Z Bracket	Vinyl Coated Aluminum	**420H93**
Round	Indoor	Acrylic	26 in dia	Z Bracket		**1CYX6**
Round	Indoor	Acrylic	26 in dia	1 Telescope		**3YRP1**
Round	Indoor	Acrylic	26 in dia with Safety Stripe Border	1 Telescope	Aluminum	**3TCT3**
Round	Indoor	Acrylic	30 in dia	1 Telescope		**1CYX7**
Round	Indoor	Acrylic	36 in dia	2 Telescope	Vinyl Coated Aluminum	**9X407**
Round	Indoor	Acrylic	36 in dia	1 Telescope	Aluminum	**1CYX8**
Round	Indoor	Acrylic	48 in dia	2 Telescope		**9T453**
Round	Indoor/ Outdoor	Acrylic	18 in dia	Z Bracket	Vinyl Coated Aluminum	**33HV28**
Round	Indoor/ Outdoor	Acrylic	18 in dia	Z Bracket		**3YRR8**
Round	Indoor/ Outdoor	Acrylic	26 in dia	1 Telescope	Aluminum	**3YRT3**
Round	Indoor/ Outdoor	Acrylic	30 in dia	1 Telescope		**3YRT7**
Round	Indoor/ Outdoor	Acrylic	36 in dia	2 Telescope	Vinyl Coated Aluminum	**33HV31**
Round	Indoor/ Outdoor	Acrylic	36 in dia	1 Telescope	Aluminum	**3YRU2**
Round	Indoor/ Outdoor	Acrylic	48 in dia	2 Telescope	Vinyl Coated Aluminum	**33HV33**

Mirror Shape	Mirror Environment	Mirror Material	Dim.	Mounting Type	Rim Type	Item No.
Acrylic Lens with Plastic Backing						
Round	Outdoor	Acrylic	18 in dia	Z Bracket	Vinyl Coated Aluminum	**420H94**
Round	Outdoor	Acrylic	18 in dia	Z Bracket		**3LXW2**
Round	Outdoor	Acrylic	26 in dia	Z Bracket		**9CV55**
Round	Outdoor	Acrylic	30 in dia	1 Telescope		**9MFW7**
Round	Outdoor	Acrylic	36 in dia	1 Telescope	Aluminum	**9HU90**
Round	Outdoor	Acrylic	36 in dia	Z Bracket		**38HX75**
Round	Outdoor	Acrylic	36 in dia	2 Telescope		**8EE98**
Round	Outdoor	Acrylic	36 in dia	3 Telescope		**20LP35**
Round	Outdoor	Acrylic	48 in dia	3 Telescope		**9PN60**
Acrylic Lens with ABS Plastic Backing						
Rectangular	Outdoor	Acrylic	12 in H x 12 in W	Swivel Telescope		**1CYZ1**
Rectangular	Outdoor	Acrylic	18 in H x 18 in W	Swivel Telescope	Vinyl Coated	**1CYZ2**
Rectangular	Outdoor	Acrylic	20 in H x 20 in W	Swivel Telescope	Aluminum	**1CYZ3**
Rectangular	Outdoor	Acrylic	24 in H x 24 in W	Swivel Telescope		**1CYZ4**
Scratch Resistant Acrylic Lens with Plastic Backing						
Round	Indoor/ Outdoor	Acrylic	18 in dia	Z Bracket	Aluminum	**8AFY2**
Round	Indoor/ Outdoor	Acrylic	26 in dia	Z Bracket		**2GVT6**
Round	Indoor/ Outdoor	Acrylic	30 in dia	1 Telescope	ABS Plastic	**2GVT7**
Round	Indoor/ Outdoor	Acrylic	36 in dia	1 Telescope	Aluminum	**2GVT8**
Round	Indoor/ Outdoor	Acrylic	48 in dia	3 Telescope		**13W025**
Acrylic Lens with Galvanized Steel Backing						
Rectangular	Indoor	Acrylic	12 in H x 12 in W	Swivel Telescope	Vinyl Coated	**1CYZ5**
Rectangular	Indoor	Acrylic	18 in H x 18 in W	Swivel Telescope	Aluminum	**1CYZ6**
Rectangular	Indoor	Acrylic	20 in H x 20 in W	Swivel Telescope	Aluminum	**1CYZ7**
Rectangular	Indoor	Acrylic	24 in H x 24 in W	Swivel Telescope	Vinyl Coated Aluminum	**1CYZ8**
Round	Outdoor	Acrylic	12 in dia	Z Bracket		**1CYX9**
Round	Outdoor	Acrylic	18 in dia	Z Bracket		**1CYY1**
Round	Outdoor	Acrylic	26 in dia	Z Bracket	Aluminum	**1CYY2**
Round	Outdoor	Acrylic	30 in dia	1 Telescope		**1CYY3**
Round	Outdoor	Acrylic	36 in dia	2 Telescope		**1CYY4**
Acrylic Lens with No Backing						
Oval	Indoor	Acrylic	8 in H x 16 in W	Screws and Anchors	No Rim	**20LP36**
Polycarbonate Lens with Hardboard Backing						
Round	Indoor	Polycarbonate	18 in dia	Z Bracket		**2GVT1**
Round	Indoor	Polycarbonate	26 in dia	Z Bracket	Aluminum	**2GVT2**
Round	Indoor	Polycarbonate	30 in dia	1 Telescope		**2GVT3**
Round	Indoor	Polycarbonate	36 in dia	1 Telescope	ABS Plastic	**2GVT4**
Polycarbonate Lens with Plastic Backing						
Round	Indoor/ Outdoor	Polycarbonate	12 in dia	Z Bracket	Vinyl Coated Aluminum	**3LYG7**
Round	Outdoor	Polycarbonate	18 in dia	Z Bracket		**13W036**
Round	Outdoor	Polycarbonate	26 in dia	Z Bracket	Aluminum	**13W037**
Round	Outdoor	Polycarbonate	30 in dia	Telescope Bracket		**13W038**
Round	Outdoor	Polycarbonate	36 in dia	2 Telescope		**13W039**

Convex Portable and Vehicle Safety Mirrors

- 160° viewing angle
- Every 1 in-dia. of mirror provides 1 ft. viewing distance

Adaptable to a variety of applications, such as scanning aisles in warehouses and reducing blind spots while driving. All mirrors include mounting hardware.

Description	Mirror Shape	Mirror Environment	Dim.	Mounting Type	Rim Type	Item No.
Acrylic Lens with Hardboard Backing						
Convex Mirror	Round	Indoor	12 in dia.	Magnet	Aluminum	**33HV63**
Convex Mirror	Round	Indoor	18 in dia.	Magnet	Aluminum	**3LZY6**
Acrylic Lens with Plastic Backing						
Convex Mirror	Round	Indoor	7 in dia.	Gooseneck with Clamp	Vinyl Coated Aluminum	**2GVZ4**
Stainless Steel Lens with Steel Backing						
Convex Vehicle Rear View Safety Mirror	Rectangular	Indoor/ Outdoor	2 ½ in H x 8 in W	Clamp	Metal	**1CZB7**

33HV63

1CZB7

Dome Mirrors

- Every 1 in-dia. of mirror provides 1 ft. viewing distance

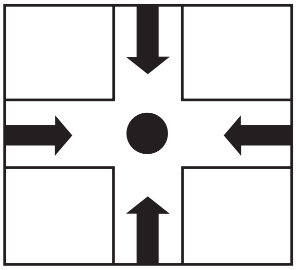
Help direct traffic and monitor hidden areas. High-Visibility mirrors have safety-stripe borders to make them stand out. All dome mirrors include mounting hardware. For indoor use.

Full-Dome—Provide a 360° view. Designed for use at 4-way intersections.

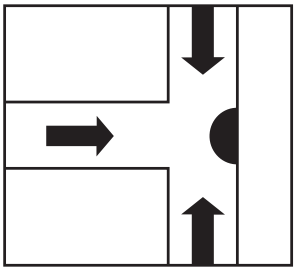
½-Dome—Provide a 180° view. Designed for "T" intersections.

¼-Dome—Provide a 90° view. Designed for internal corners.

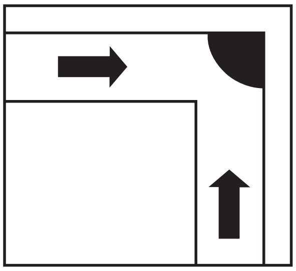
2GVX4


Full-Dome

2GVX8


½-Dome

2GVU9


¼-Dome

Dia.	Mounting Location	Rim Type	Approx. Viewing Distance	Item No.
Full-Dome Mirrors				
Acrylic Lens with Plastic Backing				
18 in	Ceiling	Vinyl Coated Aluminum	760 sq ft	**45WD09**
26 in	Ceiling	Vinyl Coated Aluminum	1,600 sq ft	**45WD10**
36 in	Ceiling	Vinyl Coated Aluminum	3,050 sq ft	**45WD11**
42 in	Wall/Ceiling	Aluminum	250 ft	**54ZH67**
Acrylic Lens with Galvanized Steel Backing				
18 in	Ceiling	Acrylic	300 sq ft	**9KG62**
36 in	Ceiling	Acrylic	500 sq ft	**3LZE1**
Acrylic Lens with No Backing				
8 in	Ceiling	Acrylic	8 ft	**1CZB9**
18 in	Ceiling	Acrylic	18 ft	**2GVX4**
26 in	Ceiling	Acrylic	400 sq ft	**2WZA5**
32 in	Ceiling	Acrylic	450 sq ft	**8ECR7**
36 in	Ceiling	Acrylic	36 ft	**13W060**
48 in	Ceiling	Acrylic	48 ft	**1WRL6**
Acrylic Lens/High-Visibility with No Backing				
18 in	Ceiling	Acrylic	18 ft	**5NAK4**
26 in	Ceiling	Acrylic	26 ft	**5NAK7**
32 in	Ceiling	Acrylic	32 ft	**5NAL0**
36 in	Ceiling	Acrylic	36 ft	**5NAL3**
48 in	Ceiling	Acrylic	48 ft	**5NAL6**
Polycarbonate Lens with No Backing				
18 in	Ceiling	Polycarbonate	300 sq ft	**33HV13**
26 in	Ceiling	Polycarbonate	400 sq ft	**33HV15**
36 in	Ceiling	Polycarbonate	500 sq ft	**33HV17**
32 in	Ceiling	Polycarbonate	450 sq ft	**3LYD6**
Scratch Resistant Acrylic Lens with No Backing				
18 in	Ceiling	Acrylic	300 sq ft	**3LZH9**
26 in	Ceiling	Acrylic	400 sq ft	**3LZJ4**
32 in	Ceiling	Acrylic	450 sq ft	**3LYX4**
36 in	Ceiling	Acrylic	500 sq ft	**3LZJ8**
48 in	Ceiling	Acrylic	48 ft	**2GVU4**
Dia.	**Mounting Location**	**Rim Type**	**Approx. Viewing Distance**	**Item No.**
½-Dome Mirrors				
Acrylic Lens with Plastic Backing				
18 in	Wall/Ceiling	Vinyl Coated Aluminum	380 sq ft	**45WD12**
26 in	Wall/Ceiling	Vinyl Coated Aluminum	800 sq ft	**45WD13**
36 in	Wall/Ceiling	Vinyl Coated Aluminum	1,525 sq ft	**45WD14**
Acrylic Lens with Galvanized Steel Backing				
18 in	Wall/Ceiling	Acrylic	380 sq ft	**3LZE4**
26 in	Wall/Ceiling	Vinyl Coated Aluminum	800 sq ft	**45WD19**
Acrylic Lens with No Backing				
18 in	Wall/Ceiling	Acrylic	18 ft	**2GVX8**
18 in	Wall/Ceiling	Acrylic	18 ft	**2GVU5**
26 in	Wall/Ceiling	Acrylic	26 ft	**2GVX9**
32 in	Wall/Ceiling	No Rim	32 ft	**2GVY1**
36 in	Wall/Ceiling	Acrylic	36 ft	**2GVY2**
48 in	Wall/Ceiling	Acrylic	48 ft	**13W064**
Acrylic Lens/High-Visibility with No Backing				
18 in	Wall/Ceiling	Acrylic	18 ft	**5NAK3**
26 in	Wall/Ceiling	Acrylic	26 ft	**5NAK6**
32 in	Wall/Ceiling	Acrylic	32 ft	**5NAK9**
36 in	Wall/Ceiling	Acrylic	36 ft	**5NAL2**
48 in	Wall/Ceiling	Acrylic	48 ft	**5NAL5**
Polycarbonate Lens with No Backing				
18 in	Wall/Ceiling	Polycarbonate	18 ft	**3LYE5**
26 in	Wall/Ceiling	Acrylic	26 ft	**3LYE9**
32 in	Wall/Ceiling	Polycarbonate	32 ft	**3LYF4**
36 in	Wall/Ceiling	ABS Plastic	36 ft	**13W033**
Scratch Resistant Acrylic Lens with Galvanized Steel Backing				
18 in	Wall/Ceiling	Acrylic	380 sq ft	**3LZG6**
Scratch Resistant Acrylic Lens with No Backing				
26 in	Wall/Ceiling	No Rim	26 ft	**2GVU6**
32 in	Wall/Ceiling	Acrylic	32 ft	**3LYW9**
36 in	Wall/Ceiling	Acrylic	36 ft	**2GVU8**

Dia.	Mounting Location	Rim Type	Approx. Viewing Distance	Item No.
¼-Dome Mirrors				
Acrylic Lens with No Backing				
18 in	Ceiling	Acrylic	18 ft	**2GVY3**
26 in	Wall/Ceiling	Acrylic	26 ft	**2GVY4**
32 in	Wall/Ceiling	No Rim	32 ft	**2GVY5**
36 in	Wall/Ceiling	Acrylic	36 ft	**2GVY6**
48 in	Wall/Ceiling	Acrylic	48 ft	**13W067**
Acrylic Lens/High-Visibility with No Backing				
18 in	Wall/Ceiling	Acrylic	18 ft	**5NAK2**
26 in	Wall/Ceiling	Acrylic	26 ft	**5NAK5**
Polycarbonate Lens with No Backing				
18 in	Ceiling	No Rim	190 sq ft	**420H96**
Scratch Resistant Acrylic Lens with ABS Plastic Backing				
26 in	Ceiling	ABS Plastic	26 ft	**2GVX1**
Scratch Resistant Acrylic Lens with No Backing				
18 in	Ceiling	Acrylic	18 ft	**2GVU9**

Full-Dome Mirrors for Drop-In Ceilings

- 360° viewing angle

Lightweight mirrors provide a full reflective hemisphere for large area surveillance needs. Include a panel for ceiling installation.

Mirror Environment	Dia.	Dome H	Approx. Viewing Distance	Panel L	Panel W	Item No.
Acrylic Lens with Acrylic Rim						
Indoor	22 in	10 in	375 sq ft	2 ft	2 ft	**3YRL4**
Indoor	22 in	10 in	350 sq ft	48 in	23 ¾ in	**33HV51**

3YRL4

33HV51

Public Safety Vests

Highly visible vests are designed for EMS providers. Color-specific markings differentiate between various emergency responders.

24Y975 has polyester mesh upper and solid polyester body. E4207 offers 1"W high-intensity Reflexite stripes for added visibility. H6445 is heavy-duty, double-stitched nylon with high-glow ANSI reflective stripes. Vest includes one set of hook-and-loop placards imprinted with different positions, easily changed as the incident expands.

24Y975

Front Side
Blue
E4207

Back Side
Blue
E4207

Description	ANSI Class	▶CHOOSE: Color	▶CHOOSE: Vest Size	Vest Closure Type	Vest Material	Includes	Brand	Item No.
No Legend Safety Vest	Unrated	Green	4XL	Zipper	Polyester	Left Chest Mic Tab, Adjustable Sides, Folds Into Storage Pouch	Condor	**24Y975**
Legend Insert Safety Vest	Unrated	Black, Blue, Green, Red, White, Yellow	Universal	Hook and Loop	Polyester	(1) Clear Plastic Card Holder, (1) Chest Pocket, (1) Inner Pocket	Condor	**E4207**
Legend Insert Safety Vest	2	Black, Blue, Gray, Green, Orange, Red, White, Yellow	Universal	Hook and Loop	Nylon	Clear Plastic Card Holder	DMS	**H6445**
Police Safety Vest	2	Black/Green	XL, 2XL	Zipper	Polyester	—	—	**E7855**

Front Side
Orange
H6445

Back Side
Orange
H6445

Front Side
E7855

Public Safety Vest Kits

- ANSI Class 2
- Hook-and-loop closure

Each kit includes assorted color nylon vests with silver/yellow stripes. Universal size vests fit chest size up to 62".

38E589

38E569

Description	Includes	Item No.
Emergency Operations Center Safety Vest Kits		
Small Local EOC Vest Kit	(31) Clipboards and Pens, (31) Dynamic Position Vests, (31) Responsibility Cards, Durable Carry Bag	**38E630**
Law Enforcement Vest Kit	(8) Clipboards and Pens, (8) Dynamic Position Vests, (8) Responsibility Cards, Durable Carry Bag	**38E577**
Facility Command Safety Vest Kit		
Facility Command Vest Kit	(11) Clipboards and Pens, (11) Dynamic Position Vests, (11) Responsibility Cards, Durable Carry Bag	**38E574**
Health Care Facility Command Safety Vest Kits		
HICS 2014 Vest Kit	(8) Clipboards and Pens, (8) Dynamic Position Vests, (8) Responsibility Cards, Cd With Pdfs of Forms and Responsibility Sheets, Durable Carry Bag	**38E589**
HICS 2014 Vest Kit	(26) Dynamic Position Vests With Clipboards, Job Action Sheets, Durable Carry Bag	**38E578**
Large Clinic Command Kit	(31) Clipboards and Pens, (31) Dynamic Position Vests, (31) Responsibility Cards, Durable Carry Bag	**38E597**
Small Clinic Command Kit	(10) Clipboards and Pens, (10) Dynamic Position Vests, (10) Responsibility Cards, Durable Carry Bag	**38E599**
CHC Vest Kit	(10) Clipboards and Pens, (10) Dynamic Position Vests, (10) Responsibility Cards, Durable Carry Bag	**38E604**
Large CHC Command Kit	(31) Clipboards and Pens, (31) Dynamic Position Vests, (31) Responsibility Cards, Durable Carry Bag	**38E605**
Care Facility Command Kit	(11) Clipboards and Pens, (11) Dynamic Position Vests, (11) Job Action Sheets + Ics Forms, Durable Carry Bag	**38E607**
Incident Command Safety Vest Kits		
Incident Command Kit	(8) Clipboards and Pens With Forms, (8) Dynamic Position Vests, Durable Carry Bag	**38E569**
Major ICS Vest Kit	(31) Clipboards and Pens, (31) Dynamic Position Vests, (31) Responsibility Cards, Durable Carry Bag	**38E628**
Incident Command and Triage Supplies Kits		
EOC Flag/Vest Kit	(14) Dynamic Position Vests, (10) Color Coded Area Flags, (10) Flag Poles, (10) Flag Stands	**38E571**
Legend Insert Safety Vest Kits		
HICS 2014 Vest Kit	(6) Durable Carry Bags, (76) Clipboards and Pens, (76) Dynamic Position Vests, (76) Responsibility Cards, Cd With Pdfs of Forms and Responsibility Sheets	**38E590**

Motorist Safety Warning Kits

Motorist Safety Kit—Conveniently fits under most vehicle seats. Vinyl storage bag contains (2) red 30-min. light sticks, (1) warning triangle, and (1) XL-size safety vest.

Triangle Warning Kit with 3 Triangles—Highway-rated kit contains warning triangles and a storage box. Meets FMVSS 125.

1EKU2

1EKU3

Description	Item No.
Motorist Safety Kit	**1EKU2**
Triangle Safety Kit with 1 Triangle	**45TX49**
Triangle Warning Kit with 3 Triangles	**1EKU3**

Whistles and Lanyards

Whistles are made of high-impact ABS plastic. Lanyards are made of strong woven nylon and have snap hooks for whistles or keys. Metal swivel allows hook to lie flat against chest.

1ZBY5

1ZBY6

25DU62

20KR27

Description	Color	Brand	Item No.	Pkg. Qty.
Standard Whistle	Black	—	**1ZBY5**	1
Horn Blast Whistle	Orange	—	**1ZBY6**	1
Neck Lanyard, 20 5⁄64 in"L	Black	—	**25DU62**	10
Neck Lanyard, 21 ½ in"L	Blue	Lucky Line	**20KR27**	10

Search and Rescue Helmets

Bullard

- Thermoplastic shell material
- Fits hat size 6½ to 8
- Front brim helmets meet ANSI/ISEA Z89.1-2009; Modern style helmets meet NFPA 1971-2007

Front brim helmets have a low-profile design that provides protection without limiting freedom of movement in confined spaces. Feature an ABS inner shell and a foam impact liner and crown cushion.

Modern style helmets feature thermal and impact protection, a low center of gravity, and increased headroom for a more comfortable fit. The Sure-Lock ratchet headband adjusts easily with the turn of a knob. U-Fit System has 12 custom comfort settings, and the 4-pt. nylon crown straps and crown pad allow for a more balanced fit. Unique Quick-Attach blade system allows easy attachment and removal of blade-mounted faceshield or blade-mounted goggles. Additional adjustment points allow for a customized fit and interface with an SCBA. Ripstop Nomex ear/neck protector and 3-pt. chinstrap with quick-release buckle. Absorbent cotton brow pad is fire resistant and removable.

38XZ92

Yellow G8579

Style	Chin Strap	Suspension	Includes	▶CHOOSE: Color	Mfr. Model	Item No.
Front Brim	Quick Release 3-Point	Standard Sure-Lock Ratchet Headband	8-Point Ratchet Suspension and 2-Point Chinstrap, Vinyl Brow Pad	Red	A2R	**38XZ92**
				White	A2W	**38XZ96**
				Yellow	A2Y	**38YA02**
Modern	Nomex Quick Release and Postman Slide	4-Point Sure-Lock Ratchet	Quick-Attach 4 in Faceshield	Black, White, Red, Yellow, Blue, Orange, Lime-Yellow	URX	**G8579**

GEMTOR
. . . when your life is on the line

Class II and Class III Rescue Harnesses

Feature sturdy lightweight nylon webbing harnesses and triple locking pompier hook with 2 in side opening gate.

541NYC AND 544FR SERIES CLASS II

- Meet NFPA 1983

Designed for fire service personnel. A sliding D-ring attachment point allows for use with escape systems. 541NYC Series features adjustable, color-coded leg straps. Choose left or right side harness opening to accommodate all types of bunker pants. 544FR Series flame-resistant harnesses are made of 1¾ in W Kevlar webbing with Kevlar thread. Can be worn as an internal harness when paired with compatible bunker pants, or externally with loops on outside.

Note: Measure waist over bunker pants to determine proper size selection.

543CH SERIES CLASS III

- Meet NFPA 1983

For rescue-only operations. Excellent mobility and functionality for lowering yourself or others as a rescuer, for use with an escape system, for rescuing a wearer, and more. 5 load-bearing attachment points. Feature front and back forged steel D-rings and aluminum carabiner. Adjustable, color-coded friction leg straps provide easy donning and size adjustment. Shoulder strap buckles.

541NYC Series
H8825

544FR Series
H8841

543CH Series
H8837

▶CHOOSE: Fits Waist Size	Pompier Hook	Side Opening	Item No.
541NYC Series Class II			
30 in to 44 in, 36 in to 50 in, 44 in to 56 in	Aluminum	Left	**H8825**
		Right	**H8826**
	None	Left	**H8829**
		Right	**H8830**
544FR Series Class II			
34 in to 40 in, 36 in to 50 in, 46 in to 56 in	None	Right	**H8841**

Fits Waist Size	▶CHOOSE: Height Range	Side Opening	Item No.
543CH Series Class III			
30 in to 44 in	From 5 ft. to 5 ft. 5 in, From 5 ft. 3 in to 6 ft., From 5 ft. 5 in to 6 ft. 6 in	Left	**H8837**
36 in to 50 in		Left	**H8838**
44 in to 56 in		Left	**H8839**

PETZL

Cordex Rappelling Gloves

High-quality leather construction gloves feature neoprene cuffs with hook-and-loop closure and carabiner hole. Cordex Gloves have breathable stretch nylon back. Cordex Plus Gloves have reinforced palms and leather back with stretch nylon.

Beige
G4833

Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
Cordex	XS, S, M, L, XL	Beige, Black	K52	**G4833**
Cordex Plus	XS, S, M, L, XL	Beige, Black	K53	**E4992**

52TD42

60XH67

3NGF2

PETZL FALLTECH MSA The Safety Company

Connectors and Hardware

Carabiners—Carabiner with triact-lock automatic locking feature is for frequent manipulations. Use carabiner with screw lock for occasional manipulations or where foreign material could jam the automatic locking system. Both have a pear shape that is practical for easily connecting multiple items.

Rope Termination Plates—Plates provide a way to attach a rope lifeline to a fall-rated anchor point so the rope can be used as a lifeline. A fall-rated carabiner attaches one end of the plate to the anchor point and the rope threads through the other end. Rope termination points provide a temporary tie-off without using a knot that can reduce the strength of the rope.

Swivels—Prevent rope twisting when the load is turning. 35ZM16 has a large opening to attach to pulleys and lanyards. Meet NFPA 1983.

Description	Color	Brand	Mfr. Model	Item No.
Carabiners				
William, Triact-Lock	Black	Petzl	M36A TLN	**52TD42**
Go, Screw-Lock	Bright	Petzl	P15	**13D953**
Spirit, No Lock	Silver	Petzl	M53 S	**13D946**
Rope Termination Plates				
For 3-strand Twisted Synthetic Ropes, ⅝ in to ¾ in Kernmantle	Blue	Falltech	8349	**60XH67**
For Rescue Ropes	Red	MSA	SRIW1000	**60UJ41**
Swivels				
Swivel, 2-Person Load	Black/Red	Petzl	P58 L	**3NGF2**
Gated Swivel	Black	Petzl	P58 SO	**35ZM16**

Find Petzl Rescue Rope on page 1098.

6TET3

6TER7

35ZM15

6TET4

30RU11

35ZM11

13D944

Pulleys

Gemini and Twin—Double pulleys have side plates designed for use with a Prusik friction hitch in lightweight progress capture systems. 3NGF1 accepts up to 3 carabiners.
- 3NGF1 meets NFPA 1983 G

Rescue—High-strength, high-efficiency pulley for maneuvering heavy loads and for intensive use. Accepts up to 3 carabiners.

Minder—Prusik minding pulley accepts up to 3 carabiners.
- Meets NFPA 1983 G

Pro—High-efficiency lossproof pulley keeps things simple when setting up a hauling or load deviation system. The side plate locks under load.
- Meets NFPA 1983 T

Kootenay—Large rope channel allows passage of joining knots. Locking pins on sheave allow pulley to be used as an anchor.

Jag Double and Jag Traxion—High-efficiency pulleys are designed to work together to make a 4:1 haul system. Jag Traxion double-progress capture pulley has a toothed cam with self-cleaning slot for optimal performance with frozen or muddy ropes.
- Meet NFPA 1983 T

Pro Traxion—Allows rope installation while pulley is connected to the anchor. Large diameter sheave and side plate locks are suitable for hauling heavy loads.
- Meets NFPA 1983 T

Description	Mfr. Model	Item No.
7 to 11mm Rope Dia.		
Gemini	P66A	**6TET3**
7 to 13mm Rope Dia.		
Twin	P65A	**3NGF1**
Rescue	P50A	**6TER7**
Minder	P60A	**3NGE9**
Pro	P46	**35ZM15**
7 to 19mm Rope Dia.		
Kootenay	P67	**6TET4**
8 to 11mm Rope Dia.		
Jag Double	P45	**35ZM18**
Jag Traxion	P54	**35ZM19**
8 to 13mm Rope Dia.		
Pro Traxion	P51A	**30RU11**

Ascenders and Descender

Ascenders—Designed for ascent with 8 to 13mm dia. rope.
- Meet NFPA 1983 T

Descender—Distributes friction and heat to help preserve the rope and doesn't twist it. The design and configuration of the RACK brake bars make it simple to set up and insert the rope. The lower bar is removable and easy to put in place.

Description	Color	Mfr. Model	Item No.
Ascenders			
Right-Handed	Gold	B17ARA	**35ZM11**
	Black	B17ARN	**35ZM13**
Left-Handed	Black/ Yellow	B17ALA	**35ZM12**
Descender			
9 to 13mm Rope	Black	D11	**13D944**

Personal Flotation Devices (PFDs)

- 15½-lb. buoyancy
- Durable nylon outer shell
- USCG Type III Approved
- 444M92: 17½-lb. buoyancy, vinyl-dipped outer shell, USCG Type V Approved

Life Vests—Feature poly-twill inner construction and 2 adjustable belts to hold jacket securely in place. 45MP78 features a leg strap for added safety, a convenient grab strap that allows for quick recovery, and a pop-up pillow for added head support. 45MP77 comes with a leg strap for additional safety. 45MP74, 45MP75, and 45MP79 feature a chest strap to help keep the vest from riding up. 45MP79 adds reflective material on the front and back for greater visibility in low light conditions. 444M92 has opening in back to accommodate most fall harnesses, plus adjustable shoulders and sides.

Life Vests with Dual Chest Pockets—Feature an outer shell with polyethylene foam and 2 adjustable encircling belts, a heavy-duty zipper, and large arm holes that allow for more freedom of movement. Belts are hidden to help reduce snags. Reflective material on front and back for greater visibility in low light conditions. Include 2 large cargo pockets, dual chest pockets, and 2 D-ring holders for small attachments.

Mesh Shoulder Life Vests—Include an outer shell with polyethylene foam. The mesh shoulder, back, and sides help to keep you cool in warm weather. Feature 2 adjustable encircling belts and a heavy-duty zipper. Belts are hidden to help reduce snags. The reflective material on front and back allows for greater visibility in low light conditions.

Description	Color	►CHOOSE: Size	Item No.
Life Vests			
Child's Lightweight Nylon Vest	Red	Child Less Than 50 lb	**45MP78**
	Red	Child 30 to 50 lb	**45MP77**
	Red	Child 50 to 90 lb	**45MP76**
Adult Lightweight Nylon Vest	Blue	Adult Universal	**45MP74**
	Blue	Adult Oversize	**45MP75**
Adult Nylon Vest with Reflective Tape	Orange	Adult Universal	**45MP79**
Adult Vinyl Vest with Reflective Tape	Orange	Adult Universal	**444M92**
Life Vests with Dual Chest Pockets			
Dual Chest Pockets	Orange	S/M, L/XL, 2XL/4XL, 4XL/7XL	**J4186**
Mesh Shoulder Life Vests			
Mesh Shoulder Vest	Orange	S, M, L, XL, 2XL, 3XL	**J4185**
Mesh Shoulder Vest with Dual Cargo Pockets	Orange	S, M, L, XL, 2XL, 3XL	**J4187**

45MP74

45MP79

J4186

J4185

Inflatable Personal Flotation Devices (PFDs)

- Fit chest size: 30 in to 52 in

Hydrostatic inflator on these devices automatically inflates vest when submerged in 4" or more of water. They withstand use in the most severe marine environments. Feature status indicator window, strobe light holder, safety whistle, and SOLAS reflective tape.

HIT Hydrostatic Commercial Vest—HIT (Hydrostatic Inflator Technology) offers reliable inflation. Features a low profile for maximum mobility, 420-denier coated nylon shell, comfortable neoprene collar, back-up oral inflation tube, and D-ring for kill-switch attachment. Offer Type II performance for commercial use. Meets ANSI 107-2004 Class 2 Standard when worn over an ANSI garment.
- USCG Approved Type II/Type V

HIT Hydrostatic Work Vest—Offers enhanced mobility and reduced heat stress even in constant wear situations. Approved for use on inspected and uninspected vessels of any size. Features durable polyurethane-coated nylon shell for improved puncture and abrasion resistance. HIT (Hydrostatic Inflator Technology) offers reliable inflation—includes inflator cover to protect inflator cap, back-up oral inflation tube, and manual activation cord.
- USCG Approved Type V

Compact Tactical Vests—Designed specifically for body armor and tactical vests that use a Modular Lightweight Load-carrying Equipment (MOLLE) webbing system.

M.I.T. 100 Vests—Adjustable waist belt offers customized fit and large arm cut outs mean full mobility. Manual inflation handle is easily accessible when needed. M.I.T (Membrane Inflatable Technology) means a light, flexible fit, and easy re-packing when it comes time to recharge.
- USCG Approved Type III/Type V

Hydrostatic Manual Conversion Kit—Conversion cap for 12L912 and 12L913 (sold separately, this page) lets the operator convert a compatible Mustang Survival PFD to manual-only inflation.

5UYD8

12L912

5UYD7

437J39

Description	Color	Mfr. Model	Item No.
HIT Hydrostatic Commercial Vest	Black/Yellow	MD3183-T3	**5UYD8**
HIT Hydrostatic Work Vest	Orange	MD3188	**5UYD7**
Compact Tactical Vest	Black	MD3196	**12L912**
Compact Tactical Vest	Tan	MD3196	**12L913**
M.I.T. 100 Vest	Admiral Grey	MD2030	**437J39**
M.I.T. 100 Vest	Red/Black	MD2030	**437J40**
Hydrostatic Manual Conversion Kit for 12L912 and 12L913	Black	MA7219	**12L919**

Industrial Foam Personal Flotation Devices (PFDs)

Universal Fit Vest—3 belts adjust to fit adults 80 lb. and up. Large arm holes for mobility. SOLAS-grade tape on shoulders. Great for boat crews.
- USCG Approved Type III

ACCEL 100 Fishing Vest—Designed for fishing and speed, the ACCEL 100 Fishing Vest offers all-day-comfort. Three-buckle system keeps vest in place, with chest strap ensuring it doesn't pop up if you go in the water. Fleece lined collar and pockets keep your neck and hands warm all day long. Reinforced D-ring offers the perfect attachment point for the engine cut off switch on your boat.

4-Pocket Vest—Short-waisted vest has 4 D-rings for lanyard attachment. 50 mph dynamic strength-tested to stand up to tough conditions. Large arm holes for mobility.
- USCG Approved Type III

Mesh Vest—High waist reduces interference with tools. Features mesh shoulders for mobility and comfort, large front pockets with hook-and-loop closure, side adjustments for dual sizing, and SOLAS-grade reflective tape on front and back.
- USCG Approved Type III

Offshore Vests—The first to have earned 4 regulatory approvals in a single design, these vests ease the hassle and cost associated with complying to a variety of vessel regulations.
- USCG Approved Type I, MED, SOLAS, and TC Approved

9YM14

G1936

E7908

E7907

46G116

▶CHOOSE: Fits Chest Size	Color	Mfr. Model	Item No.
Universal Fit Vest			
30 in to 52 in	Orange	MV3104	**9YM14**
Accel 100 Fishing Vest, Red/Black			
34 in to 38 in, 38 in to 42 in, 42 in to 46 in, 46 in to 50 in, 50 in to 54 in, 54 in to 58 in	Red	MV4626	**G1936**
4-Pocket Vest			
32 in to 36 in, 36 in to 40 in, 40 in to 44 in, 44 in to 48 in	Orange	MV3128	**E7908**
Mesh Vest			
34 in to 42 in, 42 in to 50 in, 50 in to 58 in, 58 in to 64 in	Orange	MV1254	**E7907**
Offshore Vests			
Children 33 to 90 lb	Orange	MV8035	**46G117**
Adults 30 in to 52 in	Orange	MV8040	**46G116**

D8651 G1933 G1938 46G120

Flotation Jackets/ Coats and Overalls

- Foam flotation material

Jackets/Coats—Help to provide warmth and waterproof protection from rain and spray, while also offering flotation and insulation during water immersion. USCG Type III jackets are suitable for general boating or specialized activity that is marked on the device (such as water skiing, canoeing, kayaking, hunting etc.). They are best for calm, inland waters and other applications where there is a good chance for fast rescue. All models (except E7913) feature reflective tape for enhanced visibility.

Overalls—Feature fully seam-sealed nylon construction to help protect you from rain and spray, but are also breathable to eliminate the clammy feeling of traditional flotation pants. Adjustable suspenders help to provide a custom fit, while zippered legs help to facilitate easy donning, even over boots. Wear with flotation jackets (sold separately above) to create a fully integrated flotation suit.

▶CHOOSE: Size	Color	Outer Material	Vest Closure Type	Buoyancy	USCG Type	Mfr. Model	Item No.
Flotation Jackets/Coats							
Universal	Black/Fluorescent Yellow	Cordura	Buckle, Zipper	25 lb	V	MRV150	**60FG51**
S, M, L, XL, 2XL, 3XL	Black/Yellow	Nylon	Zipper	15 ½ lb	III	MJ6214	**D8651**
S, M, L, XL, 2XL, 3XL	Orange	Nylon	Buckle, Zipper	15 ½ lb	III	MJ6214	**E7913**
S, M, L, XL, 2XL	Black/Orange	Nylon	Zipper	15 ½ lb	III	MJ6214	**G1933**
3XL	Black/Orange	Nylon	Zipper	15 ½ lb	III	MJ6214	**11N754**
S, M, L, XL, 2XL	Red	Nylon	Zipper	15 ½ lb	III	MJ5246	**G1938**
S, L, XL, 2XL	Black	Nylon	Zipper	15 ½ lb	III	MJ5246	**G1937**
3XL	Black	Nylon	Zipper	15 ½ lb	III	MJ5246	**11N772**
3XL	Red	Nylon	Zipper	15 ½ lb	III	MJ5246	**11N778**
Flotation Overalls							
S, M, L, XL, 2XL	Black	Nylon	Zipper	—	—	MP4240	**H3998**
3XL	Black	Nylon	Zipper	—	—	MP4240	**46G120**

E7912 H3997

Immersion Survival and Rescue Suits

Keep people warm in cold water or extreme weather conditions. Suits also help maintain buoyancy when submerged in water.

Anti-Exposure Work Suits—Relaxed-fit garment provides hypothermia and flotation protection. Have inflatable head support pillow and neoprene wrist closures. Ergonomic insulated hood folds into collar. Offers chest and front cargo pockets plus SOLAS reflective tape for improved visibility. Tug-Tite at thighs and ankles cinch easily to improve fit and minimize water flushing to delay onset of hypothermia.

- USCG Approved Type V

Water Rescue Dry Suits—Have a removable suspender system with 2-point attachment to help improve mobility and fit, while Rapid Repair Technology lets you self-replace neck and wrist seals and repair small leaks in less than an hour. Suit material is waterproof and breathable GORE-TEX fabric with Kevlar patches. Integrated dry socks keep feet warm and dry for hours. Closed comfort system adjustable neck seal. Offer CORDURA wrist and ankle overcuffs with Velcro closures for adjustability. Have SOLAS reflective tape on the arms for increased visibility.

▶CHOOSE: Size	Color	Closure Type	Pockets	Mfr. Model	Item No.
Anti-Exposure Work Suit					
S, M, L, XL, 2XL, 3XL	Orange	Hook and Loop Wrist and Ankle, Zipper Front	4	MS2175	**E7912**
Water Rescue Dry Suit					
M, L, XL, 2XL	Fluorescent Yellow/Green/Black	Waterproof Zipper	3	MSD576V02	**H3997**

5UYA8 5UYA7 11N742 11N741 5UYA9

Water Rescue Equipment

Rescue Stick Baton—Provides rapid flotation assistance to a person at risk of drowning. Yellow baton inflates in seconds to a large horseshoe shape once contact is made with water. Includes storage bag.

Survival Ring Buoy—Ideal for ship-board rescue operations, this heavy-duty MUSTANG SURVIVAL ring buoy is molded from high-impact linear, low-density polyethylene for long life. Model has SOLAS reflective tape for greater visibility in low light conditions and polypropylene rope with a UV stabilizer. The buoy's encircling rope can be replaced if needed.

Ring Bouy Bag—High-visibility orange bag includes 90-ft. rope that can be used to extend reach of Ring Buoy 5UYA7.

Throw Bag—Attaches to the floating rope inside and has 1in W reflective tape for nighttime visibility. Features a mesh top and quick-release carrying strap. Includes a light stick holder and a 75-ft rope.

Water Rescue Kit—Packed in a heavy-duty, watertight storage case w/pressure relief valve. Kit includes 5UYA8 inflatable rescue baton, inflatable personal flotation device (PFD), and a throw bag with 50 ft of floating rope.

Zip Tech Zipper Lubricant—Lubricates and protects watertight and airtight zippers on dry suits, survival suits, and more. Contains no silicon or paraffin.

Inflatable PFD Belt Extender—Allows wearers with larger size requirements to use most Mustang inflatable PFDs and will add 12 in to the waist belt. This belt extender fits PFDs with 1.5 in buckles.

Note: In the United States, wearing the belt extender voids the U.S. Coast Guard approval unless the wearer has a chest size over 130cm or 52 in.

Description	Material	Color	Mfr. Model	Item No.
Rescue Stick Baton, 14 in L	Neoprene	Yellow	MRD100	**5UYA8**
Survival Ring Buoy, 30 in W x 4½ in H x 30 in Dia	Low Density Polyethylene (LDPE)	Orange	MRD030	**5UYA7**
Ring Buoy Bag with 90-ft. Rope for use with 5UYA7	Multi-Filament Polypropylene Rope	Orange	MRD190	**11N742**
Throw Bag with 75-ft. Rope	Multi-Filament Polypropylene Rope	Orange	MRD075	**11N741**
Water Rescue Kit, 8 25/64 in W x 6 11/16 in H	Neoprene	Yellow	MRK110	**5UYA9**
Zip Tech Zipper Lubricant	Plastic	White	MA2292	**12L921**
Inflatable PFD Belt Extender, 12 in L x 1 ½ in W	Nylon Webbing	Black	MA7637	**11N781**

Find Safety Vests on page 1935; Safety Lights and Baton Flares on page 1925.

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D4723

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Tactical Jackets, Parkas, and Raincoat

5.11 ALWAYS BE READY

A. Response Jacket—Wind- and water-repellent, 100% polyester microfiber shell is ideal for spring weather. Features hidden ID panels on the chest.

B. Big Horn Jacket—Microfiber shell and fleece lining, with Back-Up Belt System: Hidden chest pockets that allow quick access to critical gear. Side zippers on left and right side give easy access to sidearm or provide added ventilation.

C. Tactical Fleece Jacket—Wind-resistant, 100% polyester fleece with 100% nylon panels. Abrasion-resistant collar, shoulders, biceps, and back of forearm. Side-seam zippers allow sidearm access. Zippered exterior hand warmer pockets and interior pockets. Can be used with 3-in-1 Parka D4702.

D. Chameleon Jacket—100% polyester bonded soft shell fabric, features a drop tail, water and wind repellency, and 3 zip-out ID panels.

E. Sabre Jacket 2.0—Designed for superior wet weather performance with waterproof, breathable 100% microfiber softshell fabric and fully seam-sealed construction. Features the Quixip quick-access side zipper. Numerous pockets provide ample storage. Additional features include 3 zip-out ID panels, large shoulder patches, and a removable hood.

F. 3-in-1 Parka—High-performance waterproof and breathable outer jacket is resistant to tears and abrasion. The fleece inner liner is extremely durable and wind-resistant. 100% nylon shell. Side zippers ease access to duty belt and provide ventilation. ID panels on the chest and back are removable.

G. 5-in-1 Jacket—100% nylon shell has a removable fleece liner with zip-off sleeves, enabling the jacket to be worn 5 different ways. Waterproof, breathable construction. Waist-length with side zippers for ventilation and access to duty belt. Removable ID panels on chest and back.

H. Responder Parka and Responder Hi-Vis Parka—Waterproof, breathable parkas are resistant to bloodborne pathogens. High-performance seam-sealed construction features 100% nylon shell with removable polyester fleece liner, hook-and-loop wrist closures and storm flaps, removable hood, and zippered armpit vents. 5.11 Traxion nonslip shoulder panels. ID panel at right chest. High-visibility model has 3M reflective trim.

- **D4723 meets ANSI Class II, Level II/ISEA 107-2010**

I. Reversible Hi-Vis Rain Coat—100% nylon oxford shell in a fully waterproof, seam-sealed design. Adjustable-length jacket serves as a full-coverage coat, or snap off the lower portion to parka length. Features a full snap front, pass-through pockets for easy access to duty belt, shoulder mic loops, integrated badge tab, and a snap-adjustable sleeve hem.

- **High-visibility yellow side meets ANSI/ISEA 107-2015 Class III, Type R**

Key	Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
A	Response Jacket	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy	48016	**D4705**
B	Big Horn Jacket	S, M, L, XL, 2XL, 3XL, 4XL	Black, Navy	48026	**H0223**
C	Tactical Fleece Jacket	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy, Sheriff Green	48038	**D4716**
D	Chameleon Jacket	XS, S, M, L, XL, 2XL, 3XL	Black, Dark Navy, Moss/Black	48099	**D4724**
E	Sabre Jacket 2.0	XS, S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy, Moss	48112	**G0449**
F	3-in-1 Parka	S, L, XL, 2XL	Black	48001	**D4702**
G	5-in-1 Jacket	M, L, XL	Black	48017	**D4707**
H	Responder Parka	S, M, L, XL, 2XL, 3XL, 4XL	Black, Dark Navy	48063	**H0228**
	Responder Hi-Vis Parka	S, M, L, XL, 2XL, 3XL, 4XL	Dark Navy, Range Red, Royal Blue	48073	**D4723**
I	Reversible Hi-Vis Rain Coat	S, M, L, XL, 2XL, 3XL	Black	48125	**H0237**

Find Safety Vests on page 1935; Safety Lights and Baton Flares on page 1925.

5.11 ALWAYS BE READY

Tactical Shirts

A. Utili-T Crew-Neck T-Shirt—Features a 1 high-density collar and is cut long to stay tucked in. Moisture-wicking 100% ringspun cotton.

B. Utility Polo—Cotton/polyester pique knit material is wrinkle- and fade-resistant, with a no-roll collar, drop tail with side splits, and dual-pen pockets on the sleeve.

C. Tactical Polo—100% cotton jersey is shrink-, wrinkle-, and fade-resistant for a lasting neat, clean, professional appearance and fit. Stay-flat, no-roll collar. Mic-clip attachments at shoulders and sternum. Short sleeves. Pen pockets on left sleeve.

D. Professional Polo—Made of comfortable, hard-wearing 100% cotton pique knit. Includes convenient left-sleeve pen pockets. Looks neat, clean, and professional. Wrinkle-, shrink-, and fade-resistant. Stay-flat, no-roll collar. Short sleeves.

E. Performance Polo—100% snag-resistant polyester jersey is wrinkle-, shrink-, and fade-resistant. Moisture-wicking, antimicrobial material helps reduce odor-causing bacteria. Stay-flat, no-roll collar. Short sleeves. Dual-pen pockets on left sleeve.

F. Bike Patrol Shirt—Performance-fit shirt has flexible reflective tape on the sleeves, chest, and back for visibility, plus a longer drop tail for neatness and underarm gussets for range of motion. Details include a mic loop at the placket and a chest pen pocket. 100% moisture-wicking polyester jersey with antimicrobial treatment.

G. Helios Polo Shirt—4.5 oz. snag-resistant jersey knit fabric offers moisture-wicking, quick-drying, and odor control characteristics. Integrated underarm gussets ensure a full range of movement, while a pen pocket, front mic loop, and shoulder mic pockets allow you to keep important accessories within easy reach.

H. Tactical Shirts—100% cotton canvas with proprietary hidden document pockets, cape back with mesh lining, and hidden button-down collar. Long Sleeve D6797 features adjustable cuffs and sleeve keepers.

I. Taclite Pro Shirts—Lightweight, breathable 65/35 polyester/cotton ripstop material is PTFE-treated to resist spills and stains. Feature proprietary hidden document pockets, cape back with mesh lining, and hidden button-down collar.

J. ¼-Zip Job Shirt—Shirt features a Break-Through chest pocket with hook-and-loop divider that can carry a full-size radio. Hand warmer pockets, mic-clip pockets, and pen pockets provide additional storage space. Cotton/poly fleece with fade-, shrink-, and wrinkle-resistant finish.

K. Rapid Assault Shirt—Designed for breathability while under full armor. Lightweight cotton/poly/spandex knit fabric wicks perspiration and dries quickly. Side mesh panels improve air flow to keep the wearer cool. Saddle-shoulder design allows maximum range of motion. Flat-lock seams reduce chafing. ½-zip front. Woven collar can be worn up or down. Large dual shoulder pockets offer additional storage.

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Key	Description	▶CHOOSE: Size	▶CHOOSE: Color	Mfr. Model	Item No.
A	Utili-T Crew-Neck T-Shirt, Pkg. of 3	S, M, L, XL, 2XL, 3XL	ACU Tan, Black, Dark Navy, White	40016	**D4688**
B	Utility Polo	XS, S, M, L, XL, 2XL	Black, Dark Navy, Heather Gray, Silver Tan	41180	**H5473**
C	Tactical Polo	S, M, L, XL, 2XL, 3XL	Black, Dark Navy, Heather Gray, Silver Tan, White	71182	**D6792**
D	Professional Polo	XS, S, M, L, XL, 2XL, 3XL	Academy Blue, Black, Dark Navy, Heather Gray, Range Red, Silver Tan, White	41060	**D4693**
E	Performance Polo	XS, S, M, L, XL, 2XL, 3XL	Black, Charcoal Gray, Dark Navy, LE Green, Range Red, Silver Tan, TDU Green, White	71049	**D4752**
F	Bike Patrol Shirt	XS, S, M, L, XL, 2XL, 3XL	Reflective Yellow, Royal Blue	71322	**H0286**
G	Helios Polo, Short Sleeve	S, M, L, XL, 2XL, 3XL	Academy Blue, Black, Charcoal, Dark Navy, Heather Gray, Silver Tan	41192	**J5699**
H	Tactical Shirt, Short Sleeve	XS, S, M, L, XL, 2XL, 3XL	Black, Coyote, Fire Navy, Gray, Khaki, OD Green	71152	**D4762**
	Tactical Shirt, Long Sleeve	XS, S, M, L, XL, 2XL, 3XL	Black, Coyote, Gray, Khaki, OD Green	72157	**D6797**
I	Taclite Pro Shirt, Short Sleeve	S, M, L, XL, 2XL, 3XL, 4XL, 5XL	Battle Brown, Black, Charcoal, Dark Navy, Storm, TDU Green, TDU Khaki, White	71175	**D6787**
	Taclite Pro Shirt, Long Sleeve	S, M, L, XL, 2XL, 3XL	Black, Charcoal, Coyote, Dark Navy, TDU Green, TDU Khaki, Tundra, White	72175	**D6807**
	Taclite Women's Pro Shirt, Long Sleeve	S, M, L, XL	TDU Green	62070	**J5698**
J	¼ Zip Job Shirt	XS, S, M, L, XL, 2XL	Black, Fire Navy, Heather Gray	72314	**G0460**
K	Rapid Assault Shirt	S, M, L, XL, 2XL, 3XL	Multicam	72185	**G0455**

Find Safety Vests on page 1935; Safety Lights and Baton Flares on page 1925.

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5.11 ALWAYS BE READY

Tactical Shorts and Pants

A. Taclite Pro Shorts—65/35 polyester/cotton ripstop fabric is tough, lightweight, breathable, and fade- and wrinkle-resistant. PTFE-treated for stain and spill resistance. Action waist, gusseted crotch. YKK zippers and Prym snaps.

B. Tactical Pants—100% cotton canvas for superior comfort, durability, and performance. Elastic waist and reinforced seat and knees with trademarked rear strap and slash pockets. YKK zippers and Prym snaps. Accept Kneepad Inserts 6YVG3 or 52KJ79.

C. Taclite Pro Pants—65/35 polyester/cotton ripstop fabric is wrinkle- and fade-resistant, tough, lightweight, and breathable. PTFE-treated for stain and spill resistance. Double-reinforced seat and knees. Trademarked rear strap and slash pockets and quick-access multipurpose pocket. YKK zippers and Prym snaps. Accept Kneepad Inserts 6YVG3.

D. Stryke Pants—High-performance poly/cotton ripstop is fade-, wrinkle-, stain-, and soil-resistant, with built-in stretch. Multiple pockets provide ample storage. Reinforced knees have interior pockets that accept Kneepad Inserts 6YVG3. Men's pants have a self-adjusting waistband. Women's pants have a stretch, fitted waistband.

E. TDU Pants—PTFE-treated poly/cotton ripstop. Numerous pockets, including 2 side pockets that can each hold 2 AR magazines. Self-adjusting waistband for comfort. Blousing straps for uniform appearance. Accept Kneepad Inserts 6YVG3 or 52KJ79.

F., G. Kneepad Inserts—Specially formulated to fit inside 5.11 tactical pants. Universal size.

Key	Description	▶CHOOSE: Fits Waist Size	▶CHOOSE: Inseam	▶CHOOSE: Color	Mfr. Model	Item No.
Taclite Pro Shorts						
A	Men's	Even Sizes 28 to 44	9 in	Black, Coyote, Dark Navy, TDU Green, TDU Khaki, Tundra	73287	**D6814**
Tactical Pants						
B	Men's	Even Sizes 28 to 44	30, 32, 34, 36	Black, Coyote, Fire Navy, Gray, Khaki, OD Green, Tundra	74251	**D6821**
B	Women's	Even Sizes 2 to 20	Regular or Long	Black, Fire Navy, Khaki	64358	**D4735**
Taclite Pro Pants						
C	Men's	Even Sizes 28 to 54	30, 32, 34, 36	Black, Charcoal, Coyote, Dark Navy, Stone, TDU Green, TDU Khaki, Tundra	74273	**D6856**
C	Women's	Even Sizes 2 to 20	Regular or Long	Black, Charcoal, Dark Navy, TDU Green, TDU Khaki	64360	**D4744**
Stryke Pants						
D	Men's	Even Sizes 28 to 44	30 in, 32 in, 34 in, 36 in	Black, Khaki, TDU Green	74369	**G0478**
D	Women's	Even Sizes 2 to 20	Regular or Long	Black, Dark Navy, Khaki	64386	**H5496**
TDU Pants						
E	Men's	XS to 4XL	Short, Regular, or Long	Black, Brown, Dark Navy, TDU Green, TDU Khaki	74003	**G0466**
E	Men's	XS to 3XL	Short, Regular, or Long	Multicam	74350	**G0477**
Neoprene Kneepad Inserts						
F	For Tactical, Taclite Pro, Stryke, and TDU Pants	—	—	Black	59008	**6YVG3**
Foam Kneepad Inserts						
G	For Tactical and TDU pants	—	—	Gray	56306	**52KJ79**

H8847

H0764

6UZE1

Tactical Gear

DAMASCUSGEAR

- Black color

Lightweight Patrol Gloves—Form-fitting gloves slip on easily. Lycra twill backhands provide stretch and breathability. Palm has perforated air vents and elasticized wrist opening.

Unlined Hybrid Duty Gloves—These all-purpose gloves are good for year-round use. Feature easy-on/off pull tab with low-profile knuckle zones. Reinforced palm panels and Spandura backs for added strength. Hook-and-loop wrist closure.

All-Leather Gloves with Knuckle Armor—All-purpose, contoured, tight-fitting gloves have integrated hard knuckles, leather piping, and reinforced palm panels for extra durability. Tab pull allows for easy on/off. Hook-and-loop closure.

Nitro Kevlar Tactical Gloves—Carbon-Tek fiber knuckles help deflect blows and debris. Kevlar on back of hands is flame-/flash-retardant and cut-resistant. Premium quality, digital-print aniline finished cowhide palms and trim. Hook-and-loop closure for a secure fit.

Imperial Neoprene Knee/Shin Guards—Silent and form-fitting knee/shin guards feature durable neoprene outer shell with reinforced stitching throughout.

Imperial Hard Shell Knee Pads—Hard shell polyurethane thermoplastic nonslip knee caps and reinforced foam padding for greater shock absorption and comfort.

Description	▶CHOOSE: Size	Mfr. Model	Item No.
Lightweight Patrol Gloves	S, M, L, XL, 2XL	ATX5	**H8845**
Unlined Hybrid Duty Gloves	S, M, L, XL, 2XL	ATX65	**H8846**
All-Leather Gloves with Knuckle Armor	S, M, L, XL, 2XL	ATX95	**H8847**
NITRO Kevlar Tactical Gloves	S, M, L, XL, 2XL	DMZ33	**H0764**
Imperial Neoprene Knee/Shin Guards	Universal	DNSG-B	**6UZE1**
Imperial Hard Shell Knee Pads	Universal	DKP-B	**6UZC1**

Find Safety Vests on page 1935; Safety Lights and Traffic Road Flares on page 1925.

Tactical Gloves

- Black color

Gloves are made of durable and flexible materials to protect workers who encounter a variety of hazards. Constructed to fit the natural contour of the hands, ideal for strategic multi-tasking in a variety of critical tactical situations.

▶CHOOSE:

Size	Back Material	Palm Material	Lining	Cut	Cuff	Brand	Mfr. Model	Item No.
S, M, L,	Nomex, Cotton	Goatskin Leather	Unlined	Gunn	Hook-and-Loop	Ringers Gloves	536	**K5222**
XL, 2XL	Spandex	Synthetic Leather	Foam	Clute	Slip-On	Mechanix Wear	MFF	**G2645**

K5222

G2645

Tactical Boots

Style E02272—Leather waterproof boots have ballistic nylon upper and waterproof and breathable GORE-TEX lining for comfortable durability. Slip-resistant rubber outsole, athletic cement construction, and cushioned removable insert provide boots with the stability, flexibility, and comfort needed for the most demanding situations. Boots include a YKK nylon zipper for an easy on/off and a nonmetallic composite safety toe to protect against compression and puncture injuries. Composite safety toe meets ASTM F2413-11.

Style E02276—Dirt-, oil-, and water-resistant leather has a Scotchgard protector incorporated into the tanning process to improve durability without changing the breathability or texture of the leather. Nonmetallic safety toe protects you from punctures and compression injuries. YKK nylon side zipper allows easy on/off. Slip-resistant rubber outsole, athletic cement construction, and cushioned removable insert provide boots with the stability, flexibility, and comfort needed for the most demanding situations.

Style RB8674—These security-friendly boots provide stealth and all-day comfort in demanding situations. Their removable polyurethane cushion inserts have a shock-eliminator heel cushion. Each boot is made from 100% nonmetallic construction, and their dual-density outsole features a cushion midsole.

Style RB8694—This field-proven footwear provides comfort and athletic responsiveness in critical situations. A shock-eliminating heel cushion adds extra comfort to the removable PU cushion insert. Its dual-density mountain trail rubber bottom has a specialized military tread design that resists slipping in adverse conditions. Each shoe is nonmetallic and security-friendly. The shoe's XTR material will not conduct electricity, cold, or heat. Its toe cap will resist impact and compression, and is extra-wide for comfort.

Style 804-6369—Puncture- and cut-resistant boots feature strengthened leather pull straps and high-visibility piping. Flame- and cut-resistant leather uppers have reinforced heels and toes. This waterproof boot helps to protect you from bloodborne pathogens. Steel triple ladder shanks provide support and stability. Insulated.

Style 834-7991—Lightweight and designed for comfort and safety, their high-performance construction features tumbled oiled full-grain leather upper and cushion-flex removable polyurethane footbed. The spacer mesh lining keeps feet dry and ventilated and is resistant to bloodborne pathogens. The midsole has a gel heel insert for comfort. YKK zipper with hook-and-loop closure. Waterproof.

Style E03140—DuraShocks construction features compression pads in the heel and forefoot to reduce shock to the feet and legs. Stitch-out welt construction on slip-resistant soles provides flexibility and allows boots to be resoled to extend overall boot life. Full-grain leather upper with 1680 denier nylon. Includes a YKK nylon side zipper to quickly get in and out of footwear in emergency situations and a breathable lining to keep feet cool.

Style 834-6219—Full-grain leather/400g air mesh upper with slip-resistant outsole for multi-surface traction. Shock-absorbing removable polyurethane insole with air flow vents. Cement construction.

GEN-flex2 waterproof, tactical trooper boots have a slip-resistant tread design for sure footing in urban, suburban, and rural settings. Insulated.

Style 12404—Light and comfortable, yet maintains its reputation for toughness and durability. A new air flow tongue and full-length dual durometer Ortholite footbed work to keep your feet cool, dry and comfortable all day, every day. The Achilles heel flex zone, gives a critical part of your foot more range of motion without compromising support. The full-grain leather toe, 840D nylon upper and Shock Mitigation System provide rugged protection.

Style E02272
H0402

Style E02276
H0432

Style RB8674
H8898

Style RB8694
H8900

Style 804-6369
35HL32

Style 834-7991
J0411

Style E03140
H0411

Style 834-6219
E7871

Style 12404
K2327

Style No.	Closure Type	Color	H	▶CHOOSE: W	▶CHOOSE: Size	Shineable Toe	Brand	Item No.
Composite Toe								
Men's								
E02272	Front Lace and Side Zipper	Black	8 in	M, EW	7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14, 15	Yes	Bates	**H0402**
E02276	Front Lace and Side Zipper	Tan	8 in	M, EW	7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14, 15	No	Bates	**H0432**
RB8674	Lace Up	Black	6 in	M, W	6, 6 ½, 7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14	Yes	Reebok	**H8898**
RB8694	Lace Up	Tan	6 in	M, W	6, 6 ½, 7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14	No	Reebok	**H8900**
Unisex								
804-6369	Pull On	Black	14 in	M	10	No	Thorogood Shoes	**35HL32**
804-6369	Pull On	Black	14 in	M	11	No	Thorogood Shoes	**35HL33**
804-6369	Pull On	Black	14 in	W	11	No	Thorogood Shoes	**35HL34**
804-6369	Pull On	Black	14 in	M	13	No	Thorogood Shoes	**35HL35**
Plain Toe								
Men's								
834-7991	Front Lace and Side Zipper	Black	8 in	M, W	4, 4 ½, 5, 5 ½, 6, 6 ½, 7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14, 15	Yes	Thorogood Shoes	**J0411**
E03140	Front Lace and Side Zipper	Black	8 in	M, EW	5, 5 ½, 6, 6 ½, 7, 7 ½, 8, 8 ½, 9, 9 ½, 10, 10 ½, 11, 11 ½, 12, 13, 14, 15	Yes	Bates	**H0411**
834-6219	Front Lace and Side Zipper	Black	8 in	M, W	7 ½, 10 ½, 9 ½, 13, 9, 8, 15, 14, 12, 11, 11 ½, 7, 8 ½, 10	Yes	Thorogood Shoes	**E7871**
Women's								
12404	Front Lace and Side Zipper	Black	6 in	R	10, 5, 6, 6 ½, 7, 7 ½, 8, 8 ½, 9, 9 ½	Yes	5.11	**K2327**

E0140
Yellow

3PTV1

Fire Helmets

- Fits head size 6⅜" to 8⅜"
- Meet NFPA 1971-2000
- Fire helmet accessories are available online, see Grainger.com

Composite helmets offer both thermal and impact protection, resisting both high heat and flames. Soft black Nomex chin strap features one-hand, quick-release buckle and postman slide for quick removal and adjustment. Shell-release (system) allows escape from snag hazards if helmet is knocked off or hung up. Defender visor offers eye protection, plus it's easy to use, maintain, and change out.

660C Metro—Withstands various applications including firefighting, technical rescue, and EMS and confined space. Proprietary tube-lock system helps absorb impact.

1010 Traditional—Ideal for structural and proximity firefighting. Flexes with impact to absorb energy.

Description	▶CHOOSE: Color	Item No.
660C Metro		
Fire Helmet with Modern Glass-Filled Polymer Faceshield	Black, Blue, Red, White, Yellow	E0140
1010 Traditional		
Fire Helmet with Yellow Nomex Ear/Neck Protector, Faceshield	Red	3PTV1

40P393

45KG06

40P405

Firefighting Hoods

- Meet NFPA 2018 Edition

Face and neck protection is offered in materials and styles to suit your department's specific needs. Hoods have ½" elastic sewn into the face opening for snug fit, bar tacks on stress points, and double-needle binded bottom. Seams are flatlock-stitched with Nomex thread for comfort and durability.

Style	L	Color	Item No.
Nomex/Lenzing			
Fitted	18 in	Natural	40P393
Fitted	18 ¼ in	Black	45KG04
Regular	20 in	Black	45KG05
Regular	21 in	Natural	40P402
Deluxe	20 in	Black	45KG06
Deluxe	21 in	Natural	40P406
Nomex			
Fitted	18 in	Natural	40P394
Deluxe	21 in	Natural	40P407
Regular	21 in	Natural	40P403
PBI			
Regular	21 in	Gold	40P405

9JGF8

13P332

8AL59

Firefighting Hoods

- Meet NFPA 1971, Current Edition

Two-layer construction provides maximum protection and comfort with flat-lock hood seams. TrueFit elastic for a secure fit.

Description	Color	Item No.
P84/Kevlar/Lenzing FR		
Seamless Bib with Notched Shoulder	Gold	9JGF8
With Bib	Gold	9NRZ4
Nomex/Lenzing FR		
With Shoulder Notch	White	13P331
Seamless Bib with Notched Shoulder	White	13P332
Nomex		
With Shoulder Notch	White	13P330
Seamless Bib with Notched Shoulder	White	9DXR8
With Bib	White	8AL59
CarbonX		
With Shoulder Notch	Black	13P328
Seamless Bib with Notched Shoulder	Black	13P329

G2235

F0738

Fire and Rescue Gloves

SKINS Rescue General Purpose Gloves—Material is double thick around the thumb, with keystone thumbs angled toward the palm for greater dexterity. Wash and wear.

Wildland/Rescue Gloves—The keystone double-thick thumbs are angled toward the palm to add dexterity. 4"W Nomex wristlet keeps hot debris from entering gloves.

- Meet NFPA

FDP Structural Firefighter Gloves—Sealed against liquids with a laminated Gore PTFE barrier/thermal liner and sealed seams. Abrasion-resistant; cowhide gloves are also fire-retardant and heat-resistant.

- Meet NFPA 1971-2013

Flex-Tuff Specialty Gloves—Curved shell has a tapered index/trigger finger and flexible thumb and other fingers for dexterity and articulation. Crosstech barrier/thermal liner with a secondary thermal layer for improved heat protection.

- Meet NFPA 1971-2013

Description	▶CHOOSE: Size	Color	Mfr. Model	Item No.
SKINS Rescue General Purpose Gloves				
Pigskin with Gauntlet Cuff	M, L, XL, 2XL	Buttermilk	2533	G2234
Wildland/Rescue Gloves				
Pigskin with Wristlet Cuff	M, L, XL, 2XL	Black/Tan	5002	G2235
FDP Structural Firefighter Gloves				
Cowhide with Gauntlet Cuff	S, M, L, XL, 2XL	Blue	5228	H7216
Cowhide with Pigskin Palm and Wristlet Cuff	M, L, 2XL	Black/Gold	5225	F0738
Elkskin with Pigskin Palm and Gauntlet Cuff	S, M, L, XL, 2XL	Blue/Gold	5280G	H7219
Flex-Tuff Specialty Gloves				
Cowhide with Wristlet Cuff	S, M, L, XL, 2XL	Black/Gold/Silver	5291	H7217
Cowhide with Gauntlet Cuff	S, M, L, XL, 2XL	Black/Gold/Silver	5292	H7218

Men's Shoe-Fit Insulated Fire Boots

- Meet NFPA 1971, Current Edition

Fire-Dex FDXR100 Shoe-Fit Firefighting Boots are built to provide waterproof protection and thermal wool insulation for firefighters in the field. They feature rubber construction with reinforced rubber shin guards and heels. Steel toes, plates, and shanks offer rugged protection. Integrated pull-on loops help to enable easy donning/removal. Articulating louvers on side tread offer added traction, and the sole tread pattern is designed to help push water outward. Reflective trim provides added visibility.

Description	▶CHOOSE: Size	Color	Item No.
16" Rubber	4, 5, 6, 7, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14	Black/Yellow	G8768

Wristlet K2350

Extended Wristlet K2351

3D Firefighter Gloves

- Meet NFPA 1971-2013

Firefighters Gloves are designed to deliver natural movement, better grip and tactility, and excellent dexterity. These wristlet gloves offer a Kangaroo leather palm and Cowhide leather back material. PIVOT-THUMB and formed knuckle guard provide natural, anatomically correct thumb-to-finger movement. These gloves have a Nomex/Kevlar thermal lining for heat and slash protection. CROSSTECH inserts provide long lasting protection against hot water, blood, body fluids and common chemicals by resisting damage due to flexing, abrasion and heat exposure. The style has rounded fingertips, curved thumbs and fingers, and exclusive TRU-3D: complete four-chettes on all sides of every finger and thumb. K2351 gloves are constructed with 2 layers of Nomex knit at the wrist for additional protection.

▶CHOOSE: Size	Back Material	Palm Material	Lining	Cuff	Mfr. Model	Item No.
XS, S, M, L, XL, 2XL	Cowhide Leather	Kangaroo	Crosstech	Wristlet	INNOTEX885B	K2350
				Extended Wristlet	INNOTEX880B	K2351

Gauntlet K2217

Wristlet K2217

Structural Firefighting Gloves

- Black/gold color
- Meet NFPA 1971-2018

Gloves feature a pre-curve design, durable Eversoft thermal split cowhide leather on top and palm of the gloves, and a keystone thumb. Lined with Kovenex for thermal and flame resistance. Includes a waterproof, breathable Porelle insert. Has Kevlar stitching construction for maximum structural durability and seamless fingertips offer flexibility and dexterity. **Gauntlet cuff** has eversoft thermal split cowhide leather. **Wristlet cuff** offers two-ply Kevlar construction with leather pull tab.

▶CHOOSE: Size	Back/Palm Material	Lining	Cuff	Mfr. Model	Item No.
S, M, L, XL, 2XL, 3XL	Cowhide Leather	Para-Aramid	Gauntlet	630	K2217
			Wristlet	631	K5003

D1763

D1761

E7868

Hellfire Boots

- Steel-toe models meet ASTM F2413-11
- Composite-toe models meet ASTM F2413-05

Note: Many sizes available in medium and wide widths; call 1-800-GRAINGER (472-4643). Men's sizes are shown unless specified.

14" Rubber Insulated Felt Fire Boots—Vulcanized rubber boots have double-reinforced pull loops, rubber T-toe for extra durability, oversized steel toe caps, reflective instep and heel patches, and a removable polyurethane insole.

- Also meet NFPA 1971, Current Edition

14" Rubber Insulated Fire Boots—Designed with a 1-pc. Kevlar knit fabric liner, oversize steel toe cap, and vulcanized reflective patches. Feature a cushioned shin guard and heat- and flame-resistant lug sole.

- Also meet NFPA 1971, 1992, Current Edition

9" EMS Leather Wildland Boots—Goodyear welt constructed, waterproof, slip-resistant boots are made with flame- and cut-resistant leather. Padded leather top with shaft vapor exhaust vents. Puncture-resistant insole with rubber midsole.

- Also meet NFPA 1977 and NFPA 1999

14" Power Hi-Vis Leather Structural Bunker Boots—Goodyear storm welt constructed, waterproof, slip-resistant boots are made with flame- and cut-resistant leather. Abrasion-resistant rubber toe. Padded leather top with 3M Scotchlite reflective material and shaft vapor exhaust vents. Built-in shin guard and reinforced leather pull straps. Puncture-resistant insole with rubber midsole.

Description	▶CHOOSE: Size	Color	Item No.
14" Rubber Insulated Felt Fire Boots			
Steel-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 13, 14	Black/Silver	D1763
14" Rubber Insulated Fire Boots			
Steel-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14	Black/Yellow/Silver	D1761
9" EMS Leather Wildland Boots			
Composite-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14, 15	Black	E7869
14" Power Hi-Vis Leather Structural Bunker Boots			
Composite-Toe	7, 7½, 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12, 12½, 13, 14, 15	Black	E7868

20AT54

20AT51
(Hose sold separately.)

Mobile Fire Hose Racks

Racks dry and store hoses in a small space plus save time and eliminate back strain from carrying hose. Steel racks have a red powder-coated finish. Mobile racks support 100-ft hose coils. Include (4) 5" heavy-duty brake casters, (2) have foot operated brakes.

Hose Cap.	Overall H	W	L	Mfr. Model	Item No.
Two-Tier Carts					
1300 ft (2 ½ in ID)	79 in	34 in	72 in	HC-64-2T	**20AT54**
2000 ft (2 ½ in ID)	79 in	34 in	104 in	HC-96-2T	**20AT52**
Three-Tier Carts					
2000 ft (2 ½ in ID)	87 in	34 in	72 in	HC-64-3T	**20AT53**
3000 ft (2 ½ in ID)	87 in	34 in	104 in	HC-96-3T	**20AT51**

Mobile Fire Hose Dryer

Dryer permits fresh air flow to naturally dry equipment and prolong service life. Unit is designed to dry and store 1½" to 3" fire hoses and offers 5" space between bars. This heavy-duty steel fire hose rack has a red powder-coated finish for corrosion resistance. Has (4) 5" casters.

Hose Cap.	Overall H	W	L	Mfr. Model	Item No.
1200 ft (1 ¾ in ID)	88 in	33 in	80 in	MHD-80	**20AT50**

(Hose sold separately.)

8NL19
(Gear not included.)

8EMV2

Turnout Gear Storage Systems

Open-air rack design circulates air to quickly dry and extend the life of turnout gear. Shelves adjust to boot and helmet sizes. Durable, red powder-coat finish. Each compartment is 72½"H x 20"D. Racks include apparel hooks, hanging pole, and nameplate label holders. Mobile racks also include (4) 5" swivel casters, (2) with foot-operated brakes.

Description	Overall H	Overall L	Overall D	Mfr. Model	Item No.
Mobile Single-Sided Racks					
Three 20 in W Compartments	79 in	64 in	20 in	RMSS-3/20	**8NL19**
Three 24 in W Compartments	79 in	76 in	20 in	RMSS-3/24	**9UFX5**
Mobile Double-Sided Racks					
Six 20 in W Compartments	79 in	64 in	40 in	RMDS-6/20	**8EMX7**
	79 in	76 in	40 in	RMDS-6/24	**8EPX4**
Wall-Mount Racks					
One 20 in W Compartment	72 in	21 ¾ in	20 in	RRWM-1/20	**9AR51**
Three 20 in W Compartments	72 in	63 ¼ in	20 in	RRWM-3/20	**8EMV2**

JAFLINE Blue
G2303

JAFRIB Yellow
G2311

KURIYAMA FIRE PRODUCTS

Municipal Fire Hose

JAFLINE HD—Synthetic, double-jacket fire hose with rubber lining has excellent resistance to ozone. Outside jacket resists moisture and abrasion. Use with NST/NH fittings.

JAFLINE—Synthetic, double-jacket fire hose has polyurethane lining to reduce size and weight. Outside jacket resists moisture and abrasion. Use with NST/NH fittings.

JAFRIB—Synthetic nitrile/PVC extruded through-the-weave fire hose has a ribbed jacket that resists acids, alkalis, gasoline, oils, and ozone. Use with NST/NH fittings.

JAFX4—Synthetic 4-layer hose made with high-tenacity, circular-woven yarn is completely enveloped in a tough synthetic rubber. Couple with NST, NPSH, Storz, or other special couplings.

Hose Inside Dia.	▶CHOOSE: Color	Hose Length	Service (Working) Pressure	Acceptance (Test) Pressure	Burst Pressure	Item No.
JAFLINE HD						
1 ½ in	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G2302**
	Blue, Red, Tan, Yellow	100 ft	400 psi	800 psi	1,200 psi	**G2349**
1 ¾ in	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G8765**
2 in	Blue, Orange, White	50 ft	400 psi	800 psi	1,200 psi	**G2305**
2 ½ in	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G8766**
3 in	Blue, Green, Red, Tan, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G8767**
JAFLINE						
1 ½ in	Blue, Red, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G2303**
1 ¾ in	Blue, Green, Orange, Red, Tan, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G8763**
2 ½ in	Blue, Green, Orange, Red, White, Yellow	50 ft	400 psi	800 psi	1,200 psi	**G8764**
	Blue	100 ft	400 psi	800 psi	1,200 psi	**11N829**
3 in	Blue, Orange, White, Red	50 ft	400 psi	800 psi	1,200 psi	**G2309**
JAFRIB						
1 ½ in	Red, Yellow	50 ft	300 psi	600 psi	900 psi	**G2304**
	Red, Yellow	100 ft	300 psi	600 psi	900 psi	**G2311**
1 ¾ in	Red, Yellow	50 ft	300 psi	600 psi	900 psi	**G2306**
	Red, Yellow	100 ft	300 psi	600 psi	900 psi	**G2313**
2 in	Red, Yellow	100 ft	300 psi	600 psi	900 psi	**G2314**
2 ½ in	Red	50 ft	300 psi	600 psi	900 psi	**11N797**
3 in	Red, Yellow	100 ft	300 psi	600 psi	900 psi	**G2316**
4 in	Red, Yellow	100 ft	250 psi	500 psi	750 psi	**G2317**
5 in	Red, Yellow	100 ft	225 psi	450 psi	675 psi	**G2318**
JAFX4						
1 ½ in	Yellow	50 ft	300 psi	600 psi	900 psi	**11C288**
	Yellow	100 ft	300 psi	600 psi	900 psi	**11C287**
1 ¾ in	Yellow	50 ft	300 psi	600 psi	900 psi	**11C290**
	Yellow	100 ft	300 psi	600 psi	900 psi	**11C289**
2 ½ in	Yellow	50 ft	300 psi	600 psi	900 psi	**11C294**
	Yellow	100 ft	300 psi	600 psi	900 psi	**11C293**
4 in	Yellow	50 ft	250 psi	500 psi	750 psi	**11C296**
	Yellow	100 ft	250 psi	500 psi	750 psi	**11C295**
5 in	Yellow	50 ft	250 psi	500 psi	750 psi	**11C298**
	Yellow	100 ft	250 psi	500 psi	750 psi	**11C297**

11C283

KURIYAMA FIRE PRODUCTS

Forest Lite Wildland Fire Hose

Lightweight, single-jacket polyurethane-lined hose has a spun polyester outer jacket that resists chemicals, abrasion, and ultraviolet light. Delivers superior performance against forest and wildland fires. NST couplings.

Hose Inside Dia.	Hose Color	Hose Length	Service (Working) Pressure	Acceptance (Test) Pressure	Burst Pressure	Item No.
1 in	White	50 ft	300 psi	600 psi	900 psi	**11C286**
	White	100 ft	300 psi	600 psi	900 psi	**11C285**
1 ½ in	White	50 ft	300 psi	600 psi	900 psi	**11C284**
	White	100 ft	300 psi	600 psi	900 psi	**11C283**

Fire Hose

- Meet NFPA 1962, FM Approved
- 1FEL2 to 1FEL4 are UL Listed

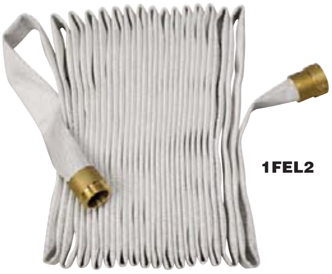
1½ in NST thread is 9 TPI; 2½ in NST thread is 7.5 TPI

1FEL5

3EUJ5

Single-Jacket Pin Rack—Lightweight, compact, and easy-to-handle for occupant use during initial fire response. Not for repeated use or as a washdown hose. Tightly woven, 100% polyester filament yarn. Couplings have female swivel on one end, male on the other.

Double-Jacket Reel—Tough, 100% polyester with a smooth 1-ply rubber liner for max. water flow and easy coiling and transport. Serves as a fire department attack hose or for repeated and heavy-duty washdown use.



1FEL2

Hose I.D.	Coupling Bowl Size	Working Pressure	Burst Pressure	Fitting Material	50 ft Item No.	75 ft Item No.	100 ft Item No.
Single-Jacket Reel Fire Hose							
1 ½ in	1½ in	150 psi	450 psi	Brass x Brass	1FEL5	—	3ATP5
1 ½ in	1½ in	150 psi	450 psi	Aluminum x Aluminum	3EUJ5	—	3EUJ6
2 ½ in	2½ in	150 psi	450 psi	Brass x Brass	1FEL6	—	3ATP6
2 ½ in	2½ in	150 psi	450 psi	Aluminum x Aluminum	3EUJ7	—	3EUJ8
Single-Jacket Pin Rack Fire Hose							
1 ½ in	1½ in	250 psi	750 psi	Brass x Brass	1FEL2	1FEL3	1FEL4
1 ½ in	1½ in	250 psi	750 psi	Aluminum x Aluminum	3ATP1	3ATP2	3ATP3
2 ½ in	2½ in	250 psi	750 psi	Brass x Brass	3ATP4	—	—
Double-Jacket Reel Fire Hose							
1 ½ in	1½ in	400 psi	1,200 psi	Aluminum x Aluminum	4YLJ9	—	4YLK3
1 ¾ in	1½ in	400 psi	1,200 psi	Aluminum x Aluminum	4YLK1	—	4YLK4
2 ½ in	2½ in	400 psi	1,200 psi	Aluminum x Aluminum	4YLK2	—	4YLK5

6APH1

MOON American, Inc.

Plastic Fire Hydrant Caps and Plugs

For use in municipal garages, landscaping, in-plant maintenance, and firefighting applications.

Description	Size	Connec. Type	Item No.
Caps			
Hydrant Cap	1½ in	NH Female	6APH1
Hydrant Cap	2½ in	NH Female	6APH2
Hydrant Cap	2½ in	Universal	6APH3
Hydrant Cap	2½ in	Nonthreaded	6APH4
Plugs			
Hydrant Plug	1½ in	NH Male	41H522
Hydrant Plug	2½ in	NH Male	41H523

MOON American, Inc.

Aluminum Storz Adapters

Easy-connect ¼-turn adapters for hydrants, hoses, pipes, and valves.

41H524

Size	Connec. Type	Item No.
Fire Hose Storz Adapters		
2½ in x 4 in	NH Female x Storz	6APT7
2½ in x 5 in	NH Female x Storz	6APT9
4 in x 4 in	FNPT x Storz	6APV2
4 in x 5 in	FNPT x Storz	6APV3
6 in x 5 in	FNPT x Storz	6APV4
Fire Hose Storz Elbow Adapters		
4 in x 4 in	FNPT x Storz	6CME9
4 in x 5 in	FNPT x Storz	6CMF0
4 in x 4 in	NH Female x Storz	6CMF8
4 in x 5 in	NH Female x Storz	6DGC1
4½ in x 5 in	NH Female x Storz	6DGC2
Fire Hydrant Storz Adapters with Cap		
4½ in x 4 in	NH Female x Storz	41H524
4½ in x 5 in	NH Female x Storz	41H525
Fire Hydrant Storz Caps		
4 in	Storz	6DGC5
5 in	Storz	6DGC6

MOON American, Inc.

Leader Line and Forestry Valves

- 2½" female NH inlet

2-pc. wye ball valves allow 1 connection to support 2 lines. 6AKE2 and 6AKE3 have 300 psi CWP max. pressure. 6APN1 to 6APN4 have 250 psi CWP max. pressure.

6APN4

Outlet Size	Outlet Type	Connection	Body Material	Brand	Item No.
1½ in x 1½ in	Male NH x Male NH	NPSH Male x NPSH Male	Brass	—	6AKE2
1½ in x 1½ in	Male NH x Male NH	NH Female x NH Male	Aluminum	Moon American	6APN2
1½ in x 1½ in	Male NPSH x Male NPSH	NH Female x NPSH Male	Brass	—	6AKE3
1½ in x 1½ in	Male NPSH x Male NPSH	NH Female x NPSH Male	Brass	Moon American	6APN1
1½ in x 1½ in	Male NPSH x Male NPSH	NH Female x NPSH Male	Aluminum	Moon American	6APN3
1½ in x 1½ in	Male NST x Male NST	NH Female x NH Male	Brass	Moon American	4FY13
2½ in x 2½ in	Male NH	NH Female x NH Male	Aluminum	Moon American	6APN4

6APD8

6CLX8

6APE6

6APE3

MOON American, Inc. DIXON The Right Connection

Fire Hose Racks and Reels

4LL10

Racks and reels are used to hold and dry fire hose. Both **wall-mount heavy-duty and standard-duty fire hose racks** have a hump in the rack's center that supports the weight of the hose and helps increase its service life by relieving strain on folded ends. Pivot mounting allows these steel fire hose racks to swing out to the proper angle to help prevent hoses from twisting. **Wall-mount standard–duty racks and reels** have an open-wire design allowing fire hoses to dry faster.

WALL-MOUNT HEAVY-DUTY FIRE HOSE RACKS

These racks provide sturdy storage for collapsible 1½ in or 2½ in fire hose in storage rooms. Vented sides allow fire hose to dry faster and prevent the growth of mold and mildew.

WALL-MOUNT HEAVY-DUTY FIRE HOSE REELS

Reels keep fire hoses organized and ready to deploy. These steel reels store 1½ in or 2½ in single-jacket hoses to keep hoses from kinking or twisting. The solid sides on fire hose reel keep fire hose protected during storage.

WALL-MOUNT STANDARD-DUTY FIRE HOSE RACKS

Racks provide compact storage for collapsible 1½ in or 2½ in fire hose in storage rooms.Wall-Mount Standard-Duty Fire Hose Reels

Standard-duty reels keep fire hose organized and ready to deploy. These steel reels store 1½ in or 2½ in single-jacket hoses to keep hoses from kinking or twisting.

FIRE HOSE PIN RACK

Pin rack holds up to 50-, 75-, or 100-ft. of 1½ in of rack hose. This one-piece steel fire hose rack is powder-coated red for corrosion resistance.

Hose Cap.	Overall Height	Overall Length	Overall Width	Brand	Item No.
Wall-Mount Heavy-Duty Fire Hose Racks					
100 ft (1 ½ in ID)	18 in	4 in	24 in	Moon American	6APF1
100 ft (1 ½ in ID)	24 in	4 in	24 in	Moon American	6APF3
100 ft (1 ½ in ID)	26 in	33 in	7 ½ in	Dixon	6CLX8
100 ft (2 ½ in ID)	24 in	5 ¼ in	24 in	Moon American	6APF2
200 ft (1 ½ in ID)	34 in	4 in	34 in	Moon American	6APF4
Wall-Mount Heavy-Duty Fire Hose Reels					
100 ft.	29 in	25 in	6 ¼ in	Moon American	4KR25
150 ft (1 ½ in ID)	22 in	18 in	6 ¼ in	Moon American	6APD8
150 ft (1 ½ in ID)	29 in	25 in	10 in	Moon American	6APD9
Wall-Mount Standard-Duty Fire Hose Racks					
100 ft (1 ¾ in ID)	17 in	4 ⅜ in	29 in	Moon American	6APE6
100 ft (1 ¾ in ID)	23 9⁄16 in	4 ⅜ in	32 in	Moon American	6APE8
100 ft (2 ½ in ID)	17 in	5 ¾ in	29 in	Moon American	6APE7
Wall-Mount Standard-Duty Fire Hose Reels					
100 ft (1 ½ in ID)	27 in	21 in	5 ½ in	Moon American	6APE3
100 ft (1 ½ in ID)	33 in	26 in	13 in	Moon American	6APE5
200 ft (1 ½ in ID)	33 in	26 in	9 ½ in	Moon American	6APE4
Fire Hose Pin Rack					
100 ft (1 ½ in I.D.)	1 ½ in	17 in	4 in	Moon American	4LL10

MOON American, Inc.

Plain Brass Hose Nozzles

- Max. pressure: 100 psi

Straight-stream flow; not adjustable. For use on fire hose racks and reels and other industrial applications.

Activates By	Inlet Size	Waterway	Thread Type	Brand	Item No.
Constant On	¾ in	¼ in	GH	Moon American	6ANW1
	¾ in	¼ in	NPSH	Moon American	6ANW2
	1 in	5⁄16 in	NH	Moon American	6ANV6
	1 in	5⁄16 in	NPSH	Moon American	6ANV5
	1 ¼ in	⅜ in	NPSH	Moon American	6ANV7
	1 ½ in	9⁄16 in	NH	—	6AKC5
	1 ½ in	9⁄16 in	NPSH	—	6AKC4
	2 in	9⁄16 in	NPSH	Moon American	6ANV8
	2 ½ in	¾ in	NH	Moon American	6ANW0
	2 ½ in	¾ in	NPSH	Moon American	6ANV9
Shutoff Handle	1 ½ in	½ in	NH	Moon American	6APP6
	1 ½ in	½ in	NPSH	Moon American	6APP5

6AKC4

6APP5

MOON American, Inc. ELKHART BRASS

Industrial Fog Nozzles

- Max pressure: 100 psi
- Straight-stream, twist-to-activate nozzles

6APP7, 6APT0 and 6APT1—Compact, lightweight aluminum nozzles have a powder-coated finish and a thick rubber bumper. Suitable for industrial washdown, forestry, and irrigation applications.

15Z194—Polycarbonate nozzle with rigid base. Helps combat blazes in refineries, chemical plants, office complexes, and other industrial locations. Designed for Class C hazards and for use on blazes 10 ft. or more from live electrical equipment and/or circuits up to 250,000V.

6APP7

15Z194

Inlet Size	Thread Type	Flow Rate	Finish	Brand	Item No.
¾ in	GH	10 to 24 gpm	Aluminum	Moon American	6APP7
1 in	NH	10 to 24 gpm	Aluminum	Moon American	6APP9
	NPSH	10 to 24 gpm	Aluminum	Moon American	6APP8
1 ½ in	NH	20 to 60 gpm	Aluminum	Moon American	6APT0
	NPSH	20 to 60 gpm	Aluminum	Moon American	6APT1
	NH	75 gpm	Polycarbonate	Elkhart Brass	15Z194

MOON American, Inc.

Heavy-Duty Industrial Fog Nozzles

- Max. pressure: 100 psi

Recommended for high-volume service demands. Straight-stream, twist-to-activate nozzles can deliver fog stream in 30°, 60°, and 90° patterns. Bronze construction with a bumper.

Inlet Size	Thread Type	Flow Rate	Std.	Brand	Item No.
1 in	NH	36 gpm	—	Moon American	6ANV3
1 in	NPSH	36 gpm	—	Moon American	6ANV2
1 ½ in	NPSH	130 gpm	UL Listed	—	6AKC1
1 ½ in	NST	130 gpm	UL Listed	—	6AKC2
2 in	NPSH	108 gpm	—	Moon American	6ANV4
2 ½ in	NST	205 gpm	UL Listed	—	6AKC3

6AKC1

6AKC6

6AKC8

6CLW0

4KR33

MOON American, Inc. DIXON The Right Connection

Thermoplastic Hose Nozzles

- Max. pressure: 100 psi

Twist-to-activate nozzles for washdown, dust suppression, or any other application where adjustable fog nozzles are needed to disperse water.

Inlet Size	Body Material	Thread Type	Flow Rate	Std.	Item No.
Moon American, Fire Hose Nozzles					
¾ in	Polycarbonate	NPSH	8 gpm	—	6ANW6
1 in	Polycarbonate	NH	22 gpm	—	6ANW5
2 ½ in	Polycarbonate	NH	150 gpm	UL Classified	6APN5
Approved Vendor, Fire Hose Nozzles					
¾ in	Plastic	GHT	35 gpm	—	6AKC6
1 ½ in	Plastic	NPSH	80 gpm	—	6AKC7
1 ½ in	Plastic	NST	80 gpm	—	6AKC8
Dixon Valve & Coupling, Fire Hose Nozzles					
¾ in	Polycarbonate	NPSH	30.9 gpm	FM Approved	6CLV9
1 in	Polycarbonate	NPSH	30.9 gpm	FM Approved	6CLW0
1 ½ in	Polycarbonate	NPSH	75 gpm	—	6CLW1

Inlet Size	Body Material	Thread Type	Flow Rate	Item No.
Moon American, Spray Nozzles				
¾ in	Polycarbonate	GHT	8 gpm	4KR35
1 in	Polycarbonate	NPSH	22 gpm	4KR32
1 ½ in	Polycarbonate	NPSH	75 gpm	4KR34
1 ½ in	Polycarbonate	NST	75 gpm	4KR33
Moon American, Nozzle Gaskets				
1½ in Nozzle Gasket, EDPM, For Use With 4RK34				6ANW8
1½ in Nozzle Gasket, EDPM, For Use With 4RK33				6ANW9

MOON American, Inc.

Forestry Nozzles

Twist-to-activate nozzle for use in woodland environments.

Break-Apart Nozzles—Pistol grip.

Jet and Fan Nozzle—Bale handle grip.

41H467

41H482

41H477

Inlet Size	Body Material	Max. Pressure	Thread Type	Flow Rate	Spray Pattern	Std.	Item No.
Break-Apart Nozzles							
1 in	Aluminum	100 psi	NH	10-24 gpm	Fog/Straight Stream	—	41H468
1 in	Aluminum	100 psi	NPSH	10-24 gpm	Fog/Straight Stream	—	41H467
1 ½ in	Aluminum	100 psi	NH	20-60 gpm	Fog/Straight Stream	—	41H470
1 ½ in	Aluminum	100 psi	NPSH	20-60 gpm	Fog/Straight Stream	—	41H469
Jet and Fan Nozzle							
¾ in	Aluminum	200 psi	GH	22 gpm	Straight Stream/Fan	—	41H482
Nozzle with Shut Off							
1 in	Aluminum	600 psi	NPSH	10-25 gpm	Fog	NSN 4210-01-165-6603	41H477

5HYD0

31AZ64

6RPN4

31AZ75

1THA3

2LTA3

Firefighting Tools

- More firefighting tools available online, see Grainger.com

20C889

5HYC5

485C46

2LTC4

2LTC2

Description	Length	Head Material	Handle Material	Color	Brand	Item No.
Fire Axes						
Flat Head Axe, Nonslip Grip Handle	3 ft	Drop Forged High Carbon Steel	Fiberglass	Yellow	Leatherhead Tools	5HYC9
Pick Head Axe, Ergonomic Straight Handle	3 ft	Carbon Steel	Fiberglass	Yellow	Leatherhead Tools	5HYD1
Pick Head Axe, Nonslip Grip Handle	3 ft		Fiberglass	Hi-Vis Lime	Leatherhead Tools	5HYD0
Pick Head Axe, Nonslip Grip Straight Handle	3 ft	Drop Forged High Carbon Steel	Fiberglass	Yellow	Leatherhead Tools	31AY98
Pick Head Axe, Nonslip Grip Straight Handle with Reflective Tape	3 ft		Fiberglass	Hi-Vis Orange	Leatherhead Tools	31AY96
Pick Head Axe, Straight Handle	3 ft		Wood	Natural	Nupla	20Y313
Pick Head Axe, Straight Handle, Single Bit Grip	3 ft		Multi-Component	Yellow	Nupla	1THA3
Pulaski Head Axe, Straight Handle	3 ft	Steel	Wood	Natural	Westward	20C889
Pulaski Head Axe, Straight Handle, Double Bit Grip	3 ft		Multi-Component	Black, Yellow	Nupla	20Y318
Pulaski Head Axe, Straight Handle, Soft Grip	3 ft		Multi-Component	Yellow	Nupla	1THA4
Halligan and Axe Combo						
Halligan Bar Wedge/Pick Head Entry Tool with Fork/Claw End and Flat Head Axe Combo, Nonslip Grip Axe	3 ft	Drop Forged High Carbon Steel	Fiberglass	Hi-Vis Lime	Leatherhead Tools	31AZ62
Halligan Bar Wedge/Pick Head Entry Tool with Fork/Claw End and Flat Head Axe Combo, Nonslip Grip Axe	3 ft		Fiberglass	Hi-Vis Orange	Leatherhead Tools	31AZ64
Halligan Bars						
Halligan Bar, Handle with Fork/Claw End	30 in	Carbon Steel	Fiberglass	Yellow	Nupla	20Y339
Halligan Bar Wedge/Pick Head Entry Tool with Fork/Claw End	24 in		High-Carbon Steel	Silver	Leatherhead Tools	31AZ04
Halligan Bar Wedge/Pick Head Entry Tool with Fork/Claw End	30 in	Drop Forged High Carbon Steel	High-Carbon Steel	Silver	Leatherhead Tools	5HYC4
Halligan Bar Wedge/Pick Head Entry Tool with Fork/Claw End	3 ft		High-Carbon Steel	Silver	Leatherhead Tools	5HYC5
Hooks						
New York Hook Head Entry Tool with Chisel End Handle	5 ft	Drop Forged High Carbon Steel	High-Carbon Steel	Hi-Vis Lime	Leatherhead Tools	6RPN4
New York Hook Head Entry Tool with Chisel End Handle	6 ft		High-Carbon Steel	Hi-Vis Lime	Leatherhead Tools	6RPN5
Pike Poles						
American Hook Head, 1 Tooth, Butt Grip Handle	5 ft 4 ½ in		Fiberglass	Yellow	Nupla	2LTA3
American Hook Head, 1 Tooth, Butt Handle	7 ft 4 ½ in	Steel	Fiberglass	Yellow	Nupla	2LTA5
American Hook Head, 1 Tooth, D-Grip handle	5 ft		Fiberglass	Yellow	Nupla	2LTA4
American Hook Head, 1 Tooth, D-Handle End	3 ft	Drop Forged High Carbon Steel	Fiberglass	Hi-Vis Orange	Leatherhead Tools	5HYD5
Pike Poles with Straight Hook						
Pike Hook Head Pole, Butt End Handle	16 ft		Fiberglass	Yellow	Nupla	34FW26
Pike Hook Head Pole, Butt End Handle	6 ft		Fiberglass	Yellow	Nupla	485C60
Pike Hook Head Pole, Butt End Handle	8 ft		Fiberglass	Yellow	Nupla	485C61
Pike Hook Head Pole, Butt End Handle	10 ft	Steel	Fiberglass	Yellow	Nupla	485C62
Pike Hook Head Pole, Butt End Handle	12 ft		Fiberglass	Yellow	Nupla	485C63
Pike Hook Head Pole, D-Handle End	3 ft		Fiberglass	Yellow	Nupla	485C45
Pike Hook Head Pole, D-Handle End	4 ft		Fiberglass	Yellow	Nupla	485C46
Sledge Hammers						
Sledge Hammer, Ergonomic Straight Handle	3 ft		Fiberglass	Yellow	Leatherhead Tools	31AZ75
Sledge Hammer, Nonslip Grip Straight Handle with Reflective Tape	3 ft	Forged Steel	Fiberglass	Hi-Vis Lime	Leatherhead Tools	31AZ73
Sledge Hammer, Nonslip Grip Straight Handle with Reflective Tape	3 ft		Fiberglass	Hi-Vis Orange	Leatherhead Tools	31AZ74
Wildland Fire Tools						
Fire Rake, Straight Handle	60 in		Fiberglass	Yellow	Nupla	2LTC4
McLeod Head Rake/Hoe Fire Tool, Straight Handle	3 ft	Steel	Fiberglass	Yellow	Nupla	20Y324
McLeod Head Rake/Hoe Fire Tool, Straight Handle	48 in		Fiberglass	Yellow	Nupla	2LTC2

Fire and EMS Bags

Maltese cross instantly identifies firefighter bags and star of life identifies EMS bags.

Arsenal Firefighter Turnout Bags—Bags have a top-grab handle, front outside pocket, and 2 side pockets. 1000-denier nylon, double-coated polyurethane construction with webbing handle, pull strap, and removable shoulder strap. Offers a wide zippered opening to a large clamshell compartment. 3RTU9 has 2 heavy-duty rubberized wheels for easily transporting heavy gear.

First Responder Bag—Nylon bag has a main compartment with divider, side pockets for additional storage, webbed handles with padded hook-and-loop closure, and over-the-shoulder strap for easy carrying.

Arsenal First Responder Bags—600-denier nylon bags have lockable double-pull zippers to help keep narcotics and other controlled substances secure. Large main zippered pocket opening provides quick access to gear. Durable shoulder straps with reflective striping. Customizable interior compartments on large bags keep contents organized for easy access.

Arsenal First Responder Bags, Clamshell Opening—600-denier polyester bags have an easily accessible outside front pocket. Bags open completely for easy access to the main hold and 6-division multitiered mesh interior pocket. 1½" webbing side straps and shoulder strap.

Arsenal First Responder Medic Backpacks—Easy-to-carry packs have 3" padded shoulder straps with reflective striping, phone holder, heavy-duty carry handle, and reflective trim on main panel. Large zippered opening provides quick, easy access to the main hold; segmented to keep supplies organized. 600-denier polyester construction with PVC backing.

3RTU9
(Gear not included.)

11A318

2MTA6

1XPG7

2MTC3

Description	H	W	L	Brand	Mfr. Model	RED Item No.	BLUE Item No.	ORANGE Item No.
Arsenal Firefighter Turnout Bag	15 in	15 in	30 in	Ergodyne	GB5005	3RTN6	—	—
Arsenal Wheeled Firefighter Turnout Bag	16 in	14 in	31 in	Ergodyne	GB5005W	3RTU9	—	—
First Responder Bag	8 in	5 ¼ in	15 ¼ in	First Aid Only	520-FR/BAG-FAO	11A318	—	—
Arsenal First Responder Jump Bags—Small	7 in	10 in	16 ½ in	Ergodyne	GB5210	—	2MTA2	2MTA5
Arsenal First Responder Bags—Large	8 ½ in	12 in	19 in	Ergodyne	GB5215	—	1XPG6	1XPG7
Arsenal First Responder Bags, Clamshell Opening	10 in	7 ½ in	16 ½ in	Ergodyne	GB5220	—	2MTA6	2MTA8
Arsenal First Responder Medic Backpacks	17 ½ in	7 in	12 in	Ergodyne	GB5243	—	2MTA9	2MTC3

Evacuation Stair Rescue Chairs and Devices

Model 40 Chairs—Two 5" stationary rear wheels, rear lifting handles, and 2-position front handles ease movement through cramped quarters. Features two 5-ft. quick-release restraints and locking safety latch.

EZ-Glide Chairs—Track system carries patient down stairs and through tight spaces. Allows one person to evacuate patients up to 200 lb. and two people to evacuate patients up to 500 lb. Features include an ergonomic, 5-position extending lift bar; handles; 3 web straps; foot-rest; and folding design. Model with PowerTraxx allows lifting patients up stairways without risking back injury.

Head Immobilizer—Immobilize heads of patients with suspected spinal injury. Lightweight, easy-to-clean unit has 2 plastic-coated, closed-cell foam supports with 2 straps and large ear holes that allow medical monitoring. Universal attachment base secures to any backboard.

Extrication Device—Helps minimize the risk of further injury during extrication from confined spaces. Wraparound design provides horizontal flexibility and vertical rigidity. Includes a wraparound vest, neck roll, color-coded body straps, 2 head straps, and carrying case. Made of vinyl-coated nylon with built-in handles.

Description	Weight Cap.	H	W	D	Color	Mfr. Model	Item No.
Evacuation Stair Rescue Chairs							
Model 40	350 lb	36 in	20 in	27 in	Orange	40	**4HRH6**
	350 lb	36 in	20 in	27 in	Burgundy	40	**2LBC2**
E-Z Glide	500 lb	37 ½ in	20 ⅓ in	51 in	White	59-E	**2LBB4**
E-Z Glide w/ PowerTraxx	500 lb	37 ½ in	20 ½ in	10 in Folded	Red	59-T	**46P311**
	500 lb	37 ½ in	20 ½ in	10 in Folded	Blue	59-T	**46P312**
Rescue Devices							
Head Immobilizer	—	7 in	10 in	15 in	Orange	445	**2LBC3**
Extrication Device	500 lb	6 in	32 in	33 in	Green	125	**2LBC4**
Accessories for EZ Glide Stair Chair 2LBB4							
Rear Lift Locking Handles						CA5906	**3CRF3**
Storage Cover						0314023	**3CRF4**
Wall Bracket						0822096	**3CRF5**
IV Pole						0821976	**3CRF6**

Evacuation Board and Sheet

Designed to help one or more people slide a mobility-impaired individual to safety in an emergency.

Evacuation Board—Hook-and-loop straps secure the person in place and a pillow reduces head movement for safe transport. To protect against hitting steps, door frames, and corners, the board has fold-up sides.

Evacuation Sheet—Adjustable wraparound straps cocoon the patient to the mattress. Long straps at head and foot help control transfer to the floor and out, even down stairs. Sheet installs between the mattress and bed, ready for immediate use.

Description	Weight Cap.	L	W	Straps Count	Mfr. Model	Item No.
ResQme Evacuation Board	660 lb	83 in	24 in	5	220M	**14H659**
ResQsheet Evacuation Sheet	900 lb	75 in	36 in	4	220	**14H658**

Evacuation Stair Rescue Chairs

EVAC+CHAIRS—Allow one operator to bring a person down stairs. Self-regulating speed governor enables operator to speed up, slow down, or stop. Include storage cover, wall bracket, indicator sign, user guide, instruction DVD, seat belt, head restraint, and ergonomic handle. 4WLZ8 also includes 2 extra handles for 2-person operation or difficult locations.

IBEX Ascend/Descend Tran-Seat—Uses gravity and friction to transport individuals up and down stairs. Features single-action open/close for rapid use, telescoping handle for correct operator posture, and adjustable resistance control for safe, easy use. 2-person operation.

Description	Weight Cap.	H	W	D	Mfr. Model	Item No.
Rescue Chairs						
EVAC+CHAIR	400 lb	41 in	20 in	8 in	MK4-300H	**4WLZ7**
	400 lb	47 in	23 in	12 in	600H	**4WLZ8**
	440 lb	48 in	16 in	14 in	220H	**52WU50**
IBEX Ascend/Descend Tran-Seat	350 lb	43 in	18 in	14 in	700H	**4WLZ9**
Accessories						
Cushioned Seat					310	**4WMA2**
Patient Transfer Seat					311	**4WMA3**
Wall Bracket					305	**4WMA4**

Kore Kooler Recovery Chair

Cooling chair lowers body temperature through hand and forearm immersion in arm reservoirs that hold 2 gal. of water.

Description	L	W	H	Item No.
Cooling Chair	32 in	32 in	40 in	**45JA65**
Replacement Reservoir Bags, Pkg. 30	23 in	26 in	—	**45JA66**

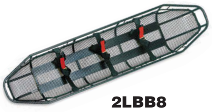
Portable Transport Units

Transport Units—Compact and cost-effective units transport, transfer, or rescue patients from areas not accessible to stretchers. Feature nonwoven, latex-free construction with 14 attached handles for ergonomic lifting. 45EU90 and 45EU91 have PowerGrip handles for added comfort.

Transport Chairs—Constructed of strong, nonwoven material with 8 rein-forced-nylon, yellow handles for ergonomic lifting. Rolls up to the size of a water bottle for easy storage. 45EU92 has PowerGrip handles for added comfort.

Barrier Sheet—Barrier sheet can be used as a durable transfer device or as a blanket for warmth. Nonwoven/poly construction acts as a fluid barrier to prevent any cross contamination.

Description	Weight Cap.	L	W	Straps Count	Color	Mfr. Model	Item No.
Transport Unit	1,000 lb	80 in	40 in	7	White	73249	**45EU87**
	1,000 lb	80 in	40 in	7	Gray	73250	**45EU88**
Transport Unit with PowerGrips	1,000 lb	80 in	40 in	7	White	73252	**45EU90**
	1,000 lb	80 in	40 in	7	Gray	73253	**45EU91**
Transport Chair	350 lb	36 in	36 in	4	White	73251	**45EU89**
Transport Chair with PowerGrips	350 lb	36 in	36 in	4	White	73254	**45EU92**
Barrier Sheet	350 lb	84 in	50 in	—	Gray	73248	**45EU86**

2LBB7

2LBB8

2LBB9

3CRE9

46P344

46P335

FERNO® When It's Critical® NORTH by Honeywell

3NRK1

3PAH4

46P353

3NRK8

Stretchers

Basket Stretchers—Use for rescue from confined spaces and elevated locations with poor access.

2LBB8 has a flat carbon-steel patient support down its length. Replaceable netting adds support.

2LBB9 has a fully internal stainless steel frame, HDPE outer shell, and single-plane sliding surface on the bottom. Replaceable closed-cell foam pad.

2LBB7 and 46P351 feature an HDPE shell supported by a heavy-duty aluminum frame. Equipped with four 2-pc., quick-release restraints and a replaceable closed-cell foam mattress. 46P351 separates in half for easy storage and backpack transport to remote rescue locations.

46P352 nonmetallic stretcher can be safely used in areas with electrical hazards and combustible atmospheres. Plastic-coated aluminum frame, plastic rivets, and wooden runners.

Scoop Stretchers—Eliminate the need for log-roll maneuvers to significantly decrease movement of the cervical spine. Adjusts to patient height.

All-aluminum 46P344 with open-center design permits patient to be X-rayed. Narrow foot-end frame for use in confined areas. Folds for storage. 3CRF1 features X-ray translucent polymer construction and 2-pc. 5-ft. polypropylene webbing with quick-release buckles.

Pole Stretcher—Lightweight, heavy-duty aluminum frame folds lengthwise and crosswise for compact storage. Vinyl-coated nylon cover resists stains, blood, and bodily fluids. Nonslip handgrips.

Evacu-Aid Stretcher—Compact and lightweight stretcher features nonslip surface with reinforced stress points. Designed with 8 handgrips for safe patient transport by 2 to 4 people.

Traverse Rescue Stretcher—Use for horizontal or vertical casualty evacuations. Lightweight, compact design is ideal for high angle, confined space, and helicopter rescue operations. Webbing carry handles can be attachment points for a lifting bridle.

Emergency Stretcher—Flat stretcher for transferring patients who have no suspected spinal injury. Lightweight aluminum frame, bacteriostatic vinyl-coated nylon cover, folding 4 in wheels, and posts.

Combination Stretcher Chair—Wheeled chair, stair chair, and flat stretcher. Aluminum frame, vinyl-coated nylon cover, restraints, and folding head- and foot-end posts and wheels.

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Basket Stretchers								
600 lb	86 in	24 in	8 in	4	Orange	Ferno	71	**2LBB7**
600 lb	86 in	24 in	8 in	4	Orange	Ferno	71-M	**46P352**
600 lb	86 in	24 in	8 in	4	Orange	Ferno	71-S	**46P351**
900 lb	82 ½ in	18 in	7 ¼ in	3	Black	Ferno	RE1107	**2LBB8**
2,500 lb	85 in	23 ½ in	7 in	4	Red	Ferno	RE1125	**2LBB9**
Basket Stretcher Lifting Bridle For Use with 2LBB9, 2LBB7, 46P351								
600 lb	54 ½ in	1 in	—	—	Orange	Ferno	418-1	**3CRE9**
Scoop Stretchers								
350 lb	47 in to 79 in	17 in	3 in	3	Silver	Ferno	65	**46P344**
350 lb	47 in to 79 in	17 in	3 to 4 in	3	Yellow	Ferno	PT6560	**3CRF1**

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Pole Stretcher								
350 lb	81 in	21 ½ in	5 ¾ in	—	Orange	Ferno	0101083	**3NRK1**
Evacu-Aid Stretcher								
350 lb	72 in	28 in	1 ½ in	—	Orange	Honeywell	4499920	**3PAH4**
Traverse Rescue Stretcher								
550 lb	79 ½ in	33 in	—	6	Blue	Ferno	TRS	**46P353**
Emergency Stretcher								
350 lb	74 in	19 in	8 in	—	Orange	Ferno	PT1100	**3NRK8**
Combination Stretcher Chair								
350 lb	73 in	20 in	9 in	3	Maroon	Ferno	107	**46P335**

FERNO® When It's Critical® IRON DUCK® BUILT FOR LIFE FSI NORTH AMERICA® SAFETY THROUGH TECHNOLOGY A Division of Fire Safety International www.fsinorth.com SUPPLIER DIVERSITY®

2LBC1

No 8CGD2

52WU23

46P328

Tactical Litter and Backboards

Tactical Litter—Features heavy-duty aluminum frame and hinges; includes 2 restraints. Durable polypropylene mesh cover allows blood, bodily fluids, and hazardous chemicals to flow freely away from patients. Mil. Spec. MIL-L-49511B.

Disaster Litter—Lightweight litter is ideal for use by EMS services, fire departments, law enforcement, or hospitals for mass casualty response.

Backboard—Lightweight, buoyant, seamless HDPE construction features 2 handles at a tapered end to help stabilize transport. Smooth head area allows attachment of all head immobilizer devices.

Millennia Backboard—Lightweight, contoured shape with easy-slide offers smooth patient movement in any space. Easy-to-clean plastic shell with foam-filled construction provides X-ray translucency.

Iron Duck Spineboards—Durable HDPE shell over nontoxic foam for durability and easy cleaning. 52WU19 spineboard is X-ray and CT scan translucent and MRI scan compatible. Won't compromise CPR efforts or aggravate cervical spine injuries. 52WU23 folding spineboard is ideal for tight spaces. Stainless steel mechanical pivot and internal aluminum runners.

Disposable Backboards—Durable, virgin fiber corrugated backboards are coated to prevent absorption of rain or fluids. Require minimal storage space and are quickly and easily assembled.

Assembled Backboard Restraint Strap Kit—1-pc. restraints feature 2 in nylon/polyester webbing with quick-release chrome-plated, automotive-type metal buckle. Includes a storage pouch.

Quick Restraint System—10-point, 6-strap system has color-coded nylon straps with hook-and-loop closures. Fits sizes from child to adult. Use with Backboard 2LBB5 and Scoop Stretchers 46P344 and 3CRF1, sold separately, this page.

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Tactical Litter								
1,200 lb	92 in	23 in	6 in	2	Green/Black	Ferno	PT7970	**2LBC1**
Disaster Litter								
350 lb	90 in	22 in	6 in	2	Black	Ferno	PT7969	**3NRK7**
Backboard								
600 lb	72 in	16 in	1 ¾ in	—	Yellow	Ferno	NB1100	**2LBB5**
Millennia Backboard								
350 lb	72 in	18 in	2 in	—	Burgundy	—	MILLENNIA BRGNDY 18	**8CGD2**
Spineboard								
500 lb	72 in	16 in	1 ¾ in	—	Orange	Iron Duck	35850-P-OR	**52WU19**

Weight Cap.	L	W	H	Straps Count	Color	Brand	Mfr. Model	Item No.
Folding Spineboard								
500 lb	72 in	16 in	2 in	—	Yellow	Iron Duck	35940-YL	**52WU23**
Disposable Backboard with Straps, Pkg. of 5								
520 lb	72 in	21 in	4 in	4	Tan	FSI	F-EM-6	**4LUR5**
Disposable Backboard with Straps and Head Immobilizer, Pkg. of 5								
520 lb	72 in	21 in	4 in	4	Tan	FSI	F-EM-8	**4LUR6**
Assembled Backboard Restraint Strap Kit, Pkg. of 3								
—	7 ft	—	—	—	Black	Ferno	439	**2LBB6**
Quick Restraint System								
—	—	—	—	—	Multi-Colored	Ferno	770	**46P328**

Cots and Tent

For protection against inclement weather, select items include a waterproof rain fly with access door and air vents.

Folding Cots—Compact cots are easily stored and transported. 3PAH3 and 29TM93 have a mildew-resistant, washable polyester cover. 19TU18 has scissor-action folding legs reinforced with hinges, supports, and 2 snap-on end braces; includes a carrying bag. 13V987 features a drop-down storage pocket on each side that double as handles. 36UV16 unfolds for quick 1-person setup; includes carrying bag. 4VNG5 has fully adjustable head- and footrests for comfort and patient restraint straps.

Tent Cots and Gear Storage Bag—Heavy-duty, powder-coat construction. Each includes a rain fly. 4VNG2 includes wheeled roller bag. Gear Storage Bag clips on the framework of Tent Cots to provide additional storage.

IPS Tent—Use as traditional tent or place directly on cot. "No-See-Um" insect mesh. Carry bag for storage and transport.

3PAH3

4VNG4

13V987

4VNG3

Description	Weight Cap.	L	W	H	Cover Material	Frame Material	Color	Brand	Mfr. Model	Item No.
Folding Cots										
Standard	225 lb	74 ½ in	25 ¼ in	16 in	Polyester	Steel	Green	—	3PAH3	**3PAH3**
Standard	225 lb	74 ½ in	25 ¼ in	16 in	Polyester	Steel	Blue		29TM93	**29TM93**
Low-Profile	250 lb	72 in	24 in	7 ½ in	600D Polyester	Steel	Green	Kamp-Rite Tent Cot Inc	KREC121	**13V988**
Military Style	300 lb	74 ½ in	25 in	16 in	600D Polyester	Steel	Gray		FC211	**19TU18**
Standard	300 lb	79 in	28 in	19 in	600D Polyester	Steel	Black		FC711	**4VNG4**
Oversized	350 lb	84 in	33 in	22 in	600D Polyester	Steel	Black/Gray		FC421	**13V987**
EZ Fold	250 lb	79 in	28 ½ in	18⅞ in	600D Polyester	Steel	Blue/Gray		FC811	**36UV16**
Emergency Treatment	350 lb	84 in	32 in	18 in	600D Polyester	Aluminum	Black		ETC911	**4VNG5**
Tent Cots and Gear Storage Bag										
Compact Tent Cot	350 lb	84 in	32 in	56 in	190T Nylon	Aluminum	Green	Kamp-Rite Tent Cot Inc	OCTC443	**4VNG2**
Double Tent Cot with Rain Fly	500 lb	84 in	52 in	59 in	190T Nylon	Aluminum	Green		DCTC343	**4VNG3**
Gear Storage Bag	—	30 in	24 in	7 in	600D Polyester	—	Black	—	4VNG8	**4VNG8**
IPS Tent										
Insect Protection System (Cot Sold Separately)	—	78 in	28 in	38 in	190T Nylon	—	Tan	Kamp-Rite Tent Cot Inc	KR-IPS	**36UV17**

Medical Field Cots

Oversize cots feature a fire-retardant mattress that is easy to clean and decontaminate. Multiple-position head and foot adjustments. 4LUR9 includes a 1½ in-thick mattress. 4LUT1 includes a 3 in-thick mattress.

Disposable Linen Set includes pillow, pillow case, fitted sheet, cover sheet, and quilted blanket. White color.

Description	Weight Cap.	L	W	H	Mfr. Model	Item No.
Medical Field Cots						
Economy Type	350 lb	83 in	28 in	15 in	F-EM-262A	**4LUR9**
Procedure Type with Drop Down Side Rails and IV Pole	550 lb	83 in	33 in	30 in	F-EM-560A-HBSR	**4LUT1**
Accessories						
Storage Cart, Holds 10 Beds	750 lb	91 in	37 in	74 in	F-EM-262CCPR	**38F346**
Disposable Linen Set, Pkg. of 10	—	39 in	83 in	—	F-LINEM-3A	**38F345**

4LUR9

START Medical Cot

The START (Simple Triage and Rapid Treatment) cot is a portable and convenient tool for disaster relief or any medical situation. Includes a removable and machine washable pad. Multiple head and feet positions.

Weight Cap.	L	W	H	Mfr. Model	Item No.
350 lb	78 in	28 in	18 in	STAR911	**44ZE08**

13V989

19TU19

4VNG9

Cot Pads, Sleeping Bags, and Blanket/Pillow Set

Self-Inflating Cot Pads—4 in H rapid-inflate/deflate pads have velour top, durable PVC bottom, and include oversize storage bag, wrap straps, and repair kit.

Fleece Cot Pad—Soft double-sided pad features a fleece shell and polyester fill. Machine washable for reuse.

Sleeping Bags—Roomy rectangular shape with comfortable polyester construction. 19TU19 is machine washable and includes carrying bag.

Emergency Blanket and Pillow Set—Lightweight polyester/fleece blanket provides warmth and comfort. Conveniently packaged with a pillow for easy storage and use.

Description	Weight Cap.	L	W	Color	Mfr. Model	Item No.
Self-Inflating Cot Pads						
Single	250 lb	77 in	32 ½ in	Green	SIP291	**13V989**
Double	350 lb	77 in	50 in	Green	SIP391	**13V990**
Queen	400 lb	77 in	59 in	Green	SIP491	**13V991**
Fleece Cot Pad						
2 in Thick	—	82 in	34 in	Gray	FP421	**19TU17**
Sleeping Bags						
Summer Season, 40°F	—	78 in	36 in	Blue	SB261	**19TU19**
3 Season, 25°F	—	78 in	36 in	Blue	SB271	**19TU20**
Cold Weather, 0°F	—	80 in	40 in	Beige	SB281	**19TU21**
Emergency Blanket and Pillow Set						
Blanket and Pillow	—	77 in	62 in	Red/Orange	KRBP102	**4VNG9**

DQE®

Decontamination Showers and Accessories

Standard System—Stand-alone system allows for quick setup, thorough victim decontamination, and easy cleanup. Includes 4- x 8-ft. aluminum-frame collection pool, 2 elevation grids, handheld sprayer, shower enclosure, and vinyl carrying bag.

- Meets ANSI/ISEA 113-2013 Standards

Indestructo System—Durable ABS pipe and fittings for rugged field conditions. Includes a 4- x 4-ft. self-supported collection pool, handheld sprayer, elevation grid, 2 wind screens, and vinyl carrying bag.

- Meets ANSI/ISEA 113-2013 Standards

Quick Response System—Durable construction withstands frequent training and field use. Includes 4- x 4-ft. aluminum-frame collection pool and handheld sprayer.

Decono Portable Shower—Portable unit for field use or in tight spaces. 5-pc. shower stores in vinyl bag (included). Also includes (2) sand bags.

Decon in a Bag—Heavy-duty vinyl carrying bag contains decon wand, compact water supply hose, scrub brush, liquid soap, 2 responders' splash suits, 4 victims' personal privacy kits, 4 contaminated clothing collection bags, and waterproof instructions.

Description	L	W	H	Mfr. Model	Item No.
Decontamination Showers					
Standard System	42 in	36 in	84 in	HMK1101A	**4PHU3**
Indestructo System	42 in	34 in	90 in	HMK7000	**4PHU8**
Quick Response System	43 in	47 in	7 ½ ft	HMK3101A	**4PHU6**
Decono Portable Shower	57 in	26 in	90 in	HM2000C	**787RF4**
Decontamination Kit					
Decon in a Bag				HM6000	**3PVK8**

Description	Mfr. Model	Item No.
Accessories		
Decon Wand	HM6006	**3PVK9**
Decon Shower Sponge	HM556	**3PVL1**
Electric Water Pump, 120V	HM1060	**4PHL6**
Wastewater Tank, 150 gal.	HM150B	**4PHL5**
Wastewater Tank, 1000 gal.	HM1000B	**4PHL4**

4PHU3

787RF4

4PHU6

3PVK8

FSI NORTH AMERICA® SAFETY THROUGH TECHNOLOGY A Division of Fire Safety International www.fsinorth.com — SUPPLIER DIVERSITY®

Decontamination Showers and Accessories

- Meet ANSI 113 Standards

1-pc. fully integrated shower systems are stable in high winds (up to 70 mph when properly anchored). Fire-retardant canopies are UV- and chemical-resistant.

3-Line Mass Casualty—For 3 to 6 ambulatory, 3 nonambulatory, or any combination. Handles 3 parallel lines of casualties at the same time in up to 4 stations: undress, detergent shower, rinse shower, and redress configuration.

2-Line Mass Casualty—Handles 2 parallel lines of casualties at the same time in 4 stations: undress, detergent shower, rinse shower, and redress configuration.

First Responder—Has full-closure, slip in-and-out, dirty entry/clean exit doors on each end. Includes 7 spray nozzles and 1 multifunction trigger spray gun.

Description	L	W	H	Mfr. Model	Item No.
Decontamination Showers					
3-Line Mass Casualty	240 in	156 in	108 in	DAT3060S	**4LUT7**
2-Line Mass Casualty	180 in	120 in	108 in	DAT3535S	**4LUT6**
First Responder	84 in	84 in	96 in	DAT2020S	**4LUT3**
Accessories					
Layflat Hose, 50 ft.				F-GH	**4LUV4**
Elevation Grid				F-TDMSPC	**4LUU8**
Waste Pump, 120V				F-WSP33AA	**4LUV3**
Electric Inflator, 120V				P-EIDHD	**4LUV9**
4 ft. x 8 ft. Inflatable Decon Pool, 160 gal.				DAP488	**38F322**
10 ft. x 10 ft. Inflatable Decon Pool, 500 gal.				DAP1010	**38F323**
Multi-Manifold Water Unit, 1.5" Inlet x 6 GHT Outlet				F-MMU156	**38F336**
Water Heater, 14 gpm, Multifuel				FSI Heat 200A	**4LUU6**
Portable Water Heater, Propane				F-ECC150WH	**55MU93**
Bladder Tank, 300 gal.				F-HD300BT	**4LUV1**
Bladder Tank, 600 gal.				F-HD600BT	**4LUV2**
HEPA 400 CFM Air Carbon Filter Cleaning Unit				F-HAS	**38F335**
Detergent Injector				FSI Heat 201	**4LUU5**
Portable Detergent Injector with Cart				FSI HEAT 201C	**38F325**
Petrotech Concentrate, 4L				PTI25-4L	**38F337**

4LUT7

4LUT6

4LUT3

SECUR-ID

Decontamination Process Kits and Property Bags

Decontamination Kits—Track people's possessions with unique ID numbers. Combo kits contain both Pre-Decon and Post-Decon kits.

Property Bags—Include step-by-step instructions, unique ID number and bar code on bag, and tearaway wrist receipt to track property. Personal Property Bags add a checklist printed on bag. Personal Property Kit includes bag with unique ID number and tearaway wrist receipt, pull tie, and 4-part form.

Description	Size	Mfr. Model	Pkg. Qty.	Item No.
Decontamination Kits				
Decon Combo Kit	Youth	COMBO2B-Y	15	**25R746**
Decon Combo Kit	Adult	COMBO2B-A	12	**25R747**
Decon Combo Kit	Large Adult	COMBO2B-LA	10	**25R748**
Property Bags				
Decon Property Bag	12 x 16 in	DP12PLUS	250	**25R755**
Decon Property Bag	22 x 24 in	DP22PLUS	250	**25R756**
Personal Property Bag	9 x 10 in	PVS912	250	**25R760**
Personal Property Bag	19 x 20 in	PVL1920	250	**25R761**
Personal Property Kit	30 x 66 in	AYS302466	20	**25R762**

25R747

25R755

25R760

Blue
J5180

White
J5172

Yellow
J5184

Lockout Padlocks

- For more lock colors, see Grainger.com

Plastic Covered Safety Locks with Steel Shackle—Designed for safety lockout applications, these locks are completely insulated against electric shocks, and are available in many colors with multilingual warning stickers. Encased aluminum body provides a high level of heat resistance. Steel shackle helps secure devices with smaller diameter holes.

Plastic Covered Safety Locks, Short and Long Body—Built especially for safety lockout applications. They are completely insulated against electric shocks, offer a high level of heat resistance with aluminum body, and are available in many colors with multilingual warning stickers.

Aluminum Safety Locks—Feature aluminum bodies that are suitable for a wide range of applications and are available in a number of different colors. Lightweight and helps keep the user safe, but does not weigh them down. Hardened steel shackle with enhanced anti-corrosion coating.

Description	Key Type	▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Item No.	Pkg. Qty.
Plastic Covered Safety Lock w/ Steel Shackle									
Steel Shackle	Alike	Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	7/32 in	**J5182**	3
		Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	7/32 in	**J5183**	6
	Different	Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 5/16 in	1 ½ in	¾ in	7/32 in	**J5180**	1
		Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 5/16 in	1 ½ in	¾ in	7/32 in	**J5181**	6
Plastic Covered Safety Locks, Short and Long Body									
Short Body	Alike	Black, Brown, Orange, Purple, White	2 in	1 5/16 in	1 ½ in	¾ in	¼ in	**J5174**	3
		Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	¼ in	**J5178**	3
	Different	Blue, Green, Orange, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	¼ in	**J5172**	1
		Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	¼ in	**J5173**	6
		Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	2 in	1 37/64 in	1 ½ in	¾ in	¼ in	**J5177**	6
Long Body		Black, Red, Blue, Green, Yellow, Orange	2 in	1 37/64 in	1 ½ in	¾ in	¼ in	**J5176**	1
Aluminum Safety Locks									
Aluminum Lock with Extended Shackle, 40mm Body - Multi Pack	Alike	Blue, Green, White, Yellow	2 in	1 5/16 in	1 7/16 in	27/32 in	¼ in	**J5188**	6
Aluminum Lock with Extended Shackle, 30mm Body - Multi Pack		Blue, Green, Purple, Red, White	2 in	1 5/16 in	1 7/16 in	21/32 in	3/16 in	**J5189**	3
		Blue, Green, Red, White, Yellow	2 in	1 5/16 in	1 7/16 in	21/32 in	3/16 in	**J5190**	6
Aluminum Lock with Extended Shackle		Black, Blue, Green, Purple, White, Yellow	2 in	1 5/16 in	1 7/16 in	27/32 in	¼ in	**J5187**	1
	Different	Red	1 ¼ in	1 5/16 in	1 7/16 in	27/32 in	¼ in	**J5186**	1
		Black, Blue, Green, Purple, White, Yellow	2 in	1 5/16 in	1 7/16 in	27/32 in	¼ in	**J5186**	1
Aluminum Lock	Alike	Black, Blue, Green, Purple, Red, White, Yellow	1 7/16 in	1 5/16 in	1 in	21/32 in	3/16 in	**J5185**	1
	Different	Black, Blue, Green, Purple, Red, White, Yellow	1 7/16 in	1 5/16 in	1 in	21/32 in	3/16 in	**J5184**	1

Red
D8943

Green
J0396

Red Bumper
D8954

ABUS
Security Tech Germany

Lockout Padlocks

Ecolution 72 Series—Compact and lightweight recycled aluminum body, anodized inside and outside. NANO PROTECT plated steel shackle provides maximum corrosion resistance.

Locks come standard with a 6-pin cylinder for maximum key changes.

- Minimum 70% postconsumer recycled content

Ecolution 74 Series—High recycled content padlocks are spark-resistant and eco-friendly. Dielectric plastic-encased aluminum body and shackle provide extra safety and durability. Locks include trilingual labels for customization. Support LEED building certification.

Laminated Ecolution 41 Series—Our laminated steel safety padlocks are suitable for both safety and security purposes. They are made with high-quality recycled steel laminates that are individually coated with a non-hazardous cadmium-free plating, giving the lock an extremely good level of rust resistance. Colored vinyl bumpers are available for easy identification and compliance with OSHA regulations. The perfect safety lock for use in harsh conditions and for added security.

Key Type	▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Item No.	Pkg. Qty.
Ecolution 72 Series								
Alike	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1 ½ in	1 ½ in	1 in	13/16 in	¼ in	**D8946**	1
		1 ½ in	1 ½ in	1 in	13/16 in	¼ in	**D8947**	3
		1 ½ in	1 ½ in	1 in	13/16 in	¼ in	**D8948**	6
		1 ½ in	1 ½ in	1 in	13/16 in	¼ in	**H5006**	12
		1 ½ in	1 ½ in	1½ in	13/16 in	¼ in	**D8949**	1
		1 ½ in	1 ½ in	1½ in	13/16 in	¼ in	**D8951**	3
		1 ½ in	1 ½ in	1½ in	13/16 in	¼ in	**D8952**	6
		1 ½ in	1 ½ in	1½ in	13/16 in	¼ in	**H5007**	12
		1 ½ in	1 ½ in	3 in	13/16 in	¼ in	**D8953**	1
	Black, Blue, Orange, Purple, Red, Silver	1 ⅝ in	1 ½ in	3 in	13/16 in	¼ in	**J5194**	3
	Black, Green, Orange, Purple, Red, Silver, Yellow	1 ⅝ in	1 ½ in	3 in	13/16 in	¼ in	**J5195**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	2 17/32 in	1 ¼ in	1 in	1 in	11/64 in	**J5197**	3
		2 17/32 in	1 ¼ in	1 in	1 in	11/64 in	**J5198**	6
		2 17/32 in	1 ¼ in	1 in	1 in	11/64 in	**J5199**	12
Different	Black, Blue, Green, Orange, Red, Yellow	1 ⅝ in	1 ½ in	1 in	¾ in	¼ in	**J5191**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1 ½ in	1 ½ in	1 in	13/16 in	¼ in	**D8943**	1
		1 ⅝ in	1 ½ in	1½ in	¾ in	¼ in	**J5192**	6
		1 ½ in	1 ½ in	1½ in	13/16 in	¼ in	**D8944**	1
	Green, Orange, Red, Yellow	1 ⅝ in	1 ½ in	3 in	¾ in	¼ in	**J5193**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1 ½ in	1 ½ in	3 in	13/16 in	¼ in	**D8945**	1
		2 17/32 in	1 ¼ in	1 in	1 in	11/64 in	**J5196**	1
Ecolution 74 Series								
Alike	Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	13/64 in	**J5208**	3
		1 ¾ in	1 ½ in	1½ in	¾ in	13/64 in	**J5209**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J0397**	1
		1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J0400**	1
	Blue, Green, Red, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J0402**	3
	Black, Brown, Orange, Purple, White	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J5201**	3
	Red	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**45WN29**	3
	Blue, Green, Red, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J0403**	6
	Black, Brown, Purple, White	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J5202**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J5205**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Yellow	3 in	1 ½ in	1½ in	¾ in	¼ in	**J0401**	1
Different	Black, Blue, Brown, Green, Orange, Purple, Red, White, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	13/64 in	**J5206**	1
		1 ¾ in	1 ½ in	1½ in	¾ in	13/64 in	**J5207**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Yellow	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J0396**	1
	Assorted, Black, Blue, Brown, Green, Orange, Purple, Red, Yellow, White	1 ¾ in	1 ½ in	1½ in	¾ in	¼ in	**J5200**	6
	Black, Blue, Brown, Green, Orange, Purple, Red, Yellow	1 ¾ in	1 ½ in	3 in	¾ in	¼ in	**J0398**	1
		3 in	1 ½ in	1½ in	¾ in	¼ in	**J0399**	1
	Red	3 in	1 ½ in	1½ in	¾ in	¼ in	**45WN20**	6
Laminated Ecolution 41 Series								
Alike	Black, Blue, Green, Red, Yellow, White	1 ⅜ in	1 ½ in	¾ in	13/16 in	17/64 in	**D8956**	1
		1 ⅜ in	1 ½ in	1⅞ in	13/16 in	17/64 in	**D8957**	1
	Black, Brown, Green, Purple, Red	1 5/16 in	1 ½ in	2 in	11/16 in	9/32 in	**J5214**	3
	Black, Blue, Brown, Green, Purple, Red, Yellow, White	1 5/16 in	1 ½ in	2 in	11/16 in	9/32 in	**J5215**	6
		1 5/16 in	1 ½ in	3 in	11/16 in	9/32 in	**J5217**	3
		1 5/16 in	1 ½ in	3 in	11/16 in	9/32 in	**J5218**	6
Different	Orange	1 5/16 in	1 ½ in	¾ in	¾ in	9/32 in	**45WP35**	1
	Black, Blue, Brown, Green, Purple, Red, White	1 5/16 in	1 ½ in	¾ in	¾ in	9/32 in	**J5211**	6
	Black, Blue, Green, Red, Yellow, White	1 ⅜ in	1 ½ in	¾ in	13/16 in	17/64 in	**D8954**	1
		1 ⅜ in	1 ½ in	1⅞ in	13/16 in	17/64 in	**D8955**	1
	Black, Blue, Green, Purple, Red, Yellow, White	1 5/16 in	1 ½ in	2 in	¾ in	9/32 in	**J5213**	6
	Black, Blue, Brown, Green, Purple, Red, Yellow, White	1 5/16 in	1 ½ in	3 in	¾ in	9/32 in	**J5216**	6

Anodized Aluminum Lockout Padlocks

AMERICAN LOCK

- Keyed alike or keyed different, 2 keys per lock
- For custom lock configurations, see Grainger.com

Anodized finish, corrosion-resistant ¾"-thick aluminum body with chrome plated hardened steel shackle makes padlocks ideal for food service facilities and washdown applications.

Red
D1916

▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Brand	KEYED DIFFERENT Item No.	KEYED DIFFERENT Pkg. Qty.	KEYED ALIKE Item No.	KEYED ALIKE Pkg. Qty.
American Lock Padlocks										
Black, Blue, Brown, Green, Orange, Purple, Red, Silver, Yellow	1 ⅞ in	1 ½ in	1 in	¾ in	¼ in	American Lock	**D1916**	1	**D1916**	1
	1 ⅞ in	1 ½ in	1 ½ in	¾ in	¼ in	American Lock	**D1918**	1	**D1918**	1
	1 ⅞ in	1 ½ in	3 in	¾ in	¼ in	American Lock	**E0163**	1	**E0163**	1
Blue, Green, Red, Yellow	1 ⅞ in	1 ½ in	1 in	¾ in	¼ in	American Lock	—	—	**D5334**	3
	1 ⅞ in	1 ½ in	1 ½ in	¾ in	¼ in	American Lock	—	—	**E7785**	3
	1 ⅞ in	1 ½ in	1 ½ in	¾ in	¼ in	American Lock	—	—	**E7786**	6
	1 ⅞ in	1 ½ in	1 ½ in	¾ in	¼ in	American Lock	—	—	**E7787**	12
	1 ⅞ in	1 ½ in	1 in	¾ in	¼ in	American Lock	—	—	**D5336**	12
Assorted Padlock Sets, 1 of Each Color Per Pack										
Assorted	—	1 ½ in	1 in	¾ in	¼ in	—	**7Y517**	6	—	—
	—	1 ½ in	1 ½ in	¾ in	¼ in	—	**7Y518**	6	—	—
	—	1 ½ in	3 in	¾ in	¼ in	—	**7Y519**	6	—	—

7Y517

Steel Lock Body Lockout Padlocks

Master Lock

- 6 bumper colors for identification
- Keyed alike or keyed different
- For custom lock configurations, see Grainger.com

Reinforced laminated ¾"-thick steel construction.

Blue Bumper
D1927

No. of Keys	▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	KEYED ALIKE Item No.	KEYED ALIKE Pkg. Qty.	KEYED DIFFERENT Item No.	KEYED DIFFERENT Pkg. Qty.
2	Black, Blue, Red, Yellow	1 ¼ in	1 9⁄16 in	¾ in	⅝ in	9⁄32 in	**D5331**	3	—	—
2	Black, Blue, Green, Red, White, Yellow	1 ¼ in	1 9⁄16 in	¾ in	⅝ in	9⁄32 in	**D5332**	6	—	—
1		1 ¼ in	1 9⁄16 in	¾ in	⅝ in	9⁄32 in	**F0076**	1	**D1927**	1
1		1 ¼ in	1 9⁄16 in	2 in	⅝ in	9⁄32 in	**F0078**	1	—	—
1		1 ¼ in	1 9⁄16 in	2 in	⅝ in	9⁄32 in	—	—	**D1931**	1

Lockout Padlocks

Master Lock BRADY ZING

- 6-pin key-retaining cylinder (except H1700 is 5-pin)
- Keyed alike or keyed different, 1 key per lock
- Danger labels included

Note: For keyed alike or master keying, or for key numbers not listed, call 1-800-GRAINGER (472-4643). Additional fees may apply.

Zenex Thermoplastic—Lightweight, nonconductive, and durable Zenex thermoplastic padlock body can be customized with permanent write-on labels. Key retaining feature will not release key when lock is open. Ensures padlock is not accidentally left unlocked.

Nonconductive Shackle—Nonmagnetic and nonsparking padlocks are ideal for electrical temperamental environments and confined-space applications. Nonconductive nylon shackle, brass key, and cylinder.

Fiberglass-Reinforced Nylon—Padlocks have nonconductive bodies (H1705 and H1707 are completely nonconductive). Key retaining system prevents key from being removed until shackle is completely closed. H1700 is compact for small spaces.

RecycLock Safety Padlocks—High recycled content padlocks are spark-resistant and eco-friendly. Dielectric plastic-encased aluminum body and shackle provide extra safety and durability.

6-pin key-retaining cylinder. Locks include trilingual labels for customization.

- **Minimum 70% post-consumer recycled content**

Note: Keyed differently locks include 1 key per lock. For keyed-alike products not listed or master keying, call your local branch. Additional fees may apply.

Red
D1948

Yellow
H1699

Blue
D8958

▶CHOOSE: Color	Body Height	Body Width	Shackle Height	Shackle Width	Shackle Dia.	Brand	KEYED ALIKE Item No.	KEYED ALIKE Pkg. Qty.	KEYED DIFFERENT Item No.	KEYED DIFFERENT Pkg. Qty.
Zenex Thermoplastic										
Red	3 in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**F0082**	1	—	—
Black, Blue, Green, Orange, Red, Yellow	3 in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**D5327**	3	—	—
	3 in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**D5328**	6	—	—
Green, Orange, Yellow, Purple, Blue, Black, Red	1 ¾ in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**F0080**	1	—	—
Black, Blue, Green, Orange, Purple, Red, Teal, Yellow	1 ¾ in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	—	—	**D1944**	1
Black, Blue, Green, Orange, Purple, Red, Yellow, Teal	3 in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	—	—	**D1948**	1
Zenex Thermoplastic Stainless Steel Shackle										
Black, Blue, Green, Orange, Purple, Red, Teal, Yellow, White	1 ⅞ in	1 ⅜ in	1 ½ in	⅝ in	3⁄16 in	Master Lock	—	—	**D5337**	1
	1 13⁄16 in	1 ⅜ in	1 ½ in	⅝ in	3⁄16 in	Master Lock	—	—	**G6057**	1
Red	1 ¾ in	1 ½ in	1 ½ in	¼ in	¼ in	Master Lock	**32V005**	6	—	—
Nonconductive Shackle										
Red, Blue, Yellow, Orange, Green, Black, Teal	1 ¾ in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	—	—	**D1942**	1
Yellow, Black, Blue, Green, Orange, Red	1 ¾ in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**D5324**	3	—	—
Black, Blue, Green, Orange, Red, Yellow	1 ¾ in	1 ½ in	1 ½ in	25⁄32 in	¼ in	Master Lock	**D5325**	6	—	—
	1 ⅞ in	1 ⅜ in	1 ½ in	⅝ in	3⁄16 in	Master Lock	**D5338**	3	—	—
	1 ⅞ in	1 ⅜ in	1 ½ in	⅝ in	3⁄16 in	Master Lock	**D7355**	6	—	—
Fiberglass Reinforced Nylon										
Red, Blue, Yellow, Green, Orange, Black, Brown, Purple, White	1 ¾ in	1 ½ in	1 ½ in	¾ in	¼ in	Brady	**H1699**	6	**H1705**	6
	1 ¾ in	1 ½ in	1 ½ in	¾ in	¼ in	Brady	**H1707**	6	—	—
	1 ⅖ in	1 ⅕ in	1 in	¾ in	13⁄64 in	Brady	—	—	**H1700**	1
Thermoplastic										
Red, Blue, Green, Yellow, Orange, Black	1 ¾ in	1 ½ in	1 ½ in	¾ in	¼ in	Brady	—	—	**D1949**	1
	1 ¾ in	1 ½ in	1 ½ in	¾ in	¼ in	Brady	—	—	**D1951**	6
RecycLock										
Red, Blue, Green, Black, Yellow, Purple, Orange, Brown	1 ¾ in	1 ½ in	1 ½ in	11⁄16 in	¼ in	Zing	—	—	**D8958**	1
	1 ¾ in	1 ½ in	3 in	11⁄16 in	¼ in	Zing	—	—	**D8959**	1
Red, Blue, Green, Yellow	1 ¾ in	1 ½ in	1 ½ in	11⁄16 in	¼ in	Zing	**D8964**	6	—	—

Laminated Steel Lock Body Padlocks

Standard Shackle
4T083

Long Shackle
1 Bumper
1XRU4

Long Shackle
2 Bumpers
3T976

- Include 2 keys
- Rectangular lock body
- Include black rubber bumper(s), see table

Padlocks have laminated bodies made up of plates of steel fastened with steel rivets. They are commonly used for indoor applications because they are less corrosion-resistant than other padlocks. Master Lock padlocks have an antidrill hardened bottom plate.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Finish	Nominal Lock Body Dim.	No. of Pins	Locking Mechanism	Key Locking Mechanism	No. of Bumpers	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Standard Shackle													
Boron Shackle Material, General Security													
1 in	15/16 in	3/8 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A326**	**4EZJ9**	**Varies**	**4EZJ8**
Steel Shackle Material, General Security													
9/16 in	½ in	3/16 in	Nickel	1 in x 1 in x ½ in	4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P225**	**4T085**	**Varies**	**4T083**
9/16 in	½ in	3/16 in	Nickel		4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P569**	**4T089**	—	—
9/16 in	½ in	3/16 in	Nickel		4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P256**	**4T094**	—	—
5/8 in	9/16 in	3/16 in	Zinc-Plated	1 in x 1 in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GV281**	**1XRU2**	**Varies**	**1XRT9**
5/8 in	9/16 in	¼ in	Nickel	1 in x 1 ½ in x 1 in	3 Pin	Single Lever	Warded	1	Master Lock	—	—	**Varies**	**1A377**
¾ in	5/8 in	9/32 in	Nickel	1 ½ in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	1	Master Lock	—	**3HWK7***	—	—
¾ in	5/8 in	9/32 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**3113**	**3HWG3**	—	—
¾ in	5/8 in	9/32 in	Nickel	1 in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**3476**	**1A446**	—	—
¾ in	5/8 in	9/32 in	Nickel	2 in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	—	—	**Varies**	**1A376**
27/32 in	27/32 in	¼ in	Zinc-Plated	1 ½ in x 2 in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GM1086**	**1XRT6**	**Varies**	**1XRT4**
7/8 in	¾ in	¼ in	Zinc-Plated	1 ½ in x 1 ½ in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GM1261**	**1XRT7**	**Varies**	**1XRT5**
15/16 in	¾ in	5/16 in	Nickel	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**10R40**	**3HVZ5**	**Varies**	**3HVZ3**
15/16 in	¾ in	5/16 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**2246**	**1A445**	**Varies**	**1A375**
1 in	15/16 in	3/8 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	1	Master Lock	—	**3HUJ5***	—	—
1 in	15/16 in	3/8 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A418**	**4T093**	**Varies**	**4T082**
1 in	15/16 in	3/8 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A326**	**4T084**	—	—
1¼ in	1 in	5/16 in	Zinc-Plated		4 Pin	Double Lever	Pin Tumbler	1	—	**GM1307**	**1XRU1**	**Varies**	**1XRT8**
Long Shackle													
Boron Shackle Material, General Security													
2½ in	15/16 in	3/8 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A152**	**4EZK4**	**Varies**	**3T981**
2½ in	15/16 in	3/8 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A152**	**3T980**	—	—
Steel Shackle Material, General Security													
1½ in	½ in	3/16 in	Nickel	1 in x 1 in x ½ in	4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P241**	**3HWC5**	**Varies**	**3HUC2**
1½ in	15/16 in	3/8 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A1010**	**3HUA9**	**Varies**	**3HUA7**
1½ in	¾ in	5/16 in	Nickel	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**10R41**	**3HVZ9**	**Varies**	**3HVZ7**
1½ in	¾ in	5/16 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**2008**	**3HUA2**	**Varies**	**3HTZ9**
1½ in	5/8 in	9/32 in	Nickel	1 ½ in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**851**	**3HTZ7**	**Varies**	**3HTZ5**
1½ in	5/8 in	9/32 in	Nickel	1 in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**536**	**3JYY8**	—	—
1½ in	¾ in	¼ in	Zinc-Plated	1 ½ in x 1 ½ in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GM1656**	**1XRU9**	**Varies**	**1XRV1**
2 in	5/8 in	9/32 in	Nickel	1 in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**0344**	**3T979**	**Varies**	**5T812**
2 in	¾ in	¼ in	Zinc-Plated	1 ½ in x 1 ½ in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GM1365**	**1XRU4**	**Varies**	**1XRU3**
2½ in	½ in	3/16 in	Nickel	1 in x 1 in x ½ in	4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P518**	**3T984**	**Varies**	**3T985**
2½ in	½ in	3/16 in	Nickel		4 Pin	Double Lever	Pin Tumbler	1	Master Lock	**P316**	**3JYX7**	—	—
2½ in	¾ in	5/16 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	1	Master Lock	—	**3HUJ4***	—	—
2½ in	15/16 in	3/8 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**A214**	**3JZC8**	—	—
2½ in	¾ in	5/16 in	Nickel	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**10R41**	**3HWA4**	**Varies**	**3HWA2**
2½ in	¾ in	5/16 in	Nickel	1 ½ in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**2440**	**3T976**	**Varies**	**3T977**
2½ in	¾ in	5/16 in	Nickel	2 in x 2 in x 1 in	4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**2126**	**3JZA2**	—	—
2½ in	27/32 in	¼ in	Zinc-Plated	1 ½ in x 2 in x 1 in	4 Pin	Double Lever	Pin Tumbler	1	—	**GM1510**	**1XRU6**	**Varies**	**1XRU5**
5¾ in	¾ in	5/16 in	Nickel		4 Pin	Ball Bearing	Pin Tumbler	2	Master Lock	**X2355**	**3HUA6**	**Varies**	**3HUA4**

** Combo Packs have random key number assignments. 3HWK7 has four padlocks, 3HUJ5 has two padlocks, 3HUJ4 has three padlocks.*

Solid Steel Lock Body Padlocks

Standard Shackle
1JAD5

Partially-Hidden Shackle
4YH33

Extended Long Shackle
3KJT4

Long Shackle
4YH36

- Include 2 keys
- Ball bearing locking mechanism, except where indicated
- Pin tumbler key locking mechanism, except where indicated
- Do not include bumper(s)

Padlocks with solid (no finish) steel bodies are more secure than those with laminated bodies; no exposed rivets to tamper with. Chrome-plated padlocks are weather resistant—can be used both indoors and outdoors. Partially-hidden padlocks provide superior resistance to cutting by minimizing shackle exposure. All padlocks have chrome-plated shackles, except 3HWD4 has a nickel finish.

American Lock and Master Lock padlocks feature rekeyable Pro Series cylinders with special spool pin tumblers that are virtually impossible to pick.

Lock Body Finish	Lock Body Shape	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Config.	Shackle Dia.	Nominal Lock Body Dim.	No. of Pins	Brand	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.	KEYED ALIKE Key Code	KEYED ALIKE Item No.
Standard Shackle												
Boron Shackle Material, High Security												
Chrome-Plated	Rectangular	1 in	¾ in	Open	¼ in	2 ½ in x 1 ½ in x 1 in	5 Pin	American Lock	**Varies**	**3KJT2**	—	—
Chrome-Plated	Rectangular	1⅛ in	¾ in	Open	3/8 in	2 in x 2 in x ¾ in	5 Pin	American Lock	**Varies**	**3HWH4**	**56332**	**3HWH5**
Chrome-Plated	Rectangular	1 3/16 in	29/32 in	Open	5/16 in	2 in x 2 in x 2 ½ in	5 Pin	Master Lock	**Varies**	**3HWD4**	—	—
Chrome-Plated	Round	1 1/16 in	15/16 in	Open	7/16 in	2 in x 2 ½ in x 1 in	6 Pin	American Lock	—	—	**27234**	**1JAD7**
Chrome-Plated	Round	1 1/16 in	15/16 in	Open	7/16 in		5 Pin	American Lock	**Varies**	**1JAD5**	—	—
Chrome-Plated	Round	1⅛ in	7/8 in	Open	7/16 in		5 Pin	Master Lock	**Varies**	**4EZJ1**	—	—
No Finish	Rectangular	1 3/16 in	29/32 in	Open	5/16 in	2 in x 2 in x 2 ½ in	5 Pin	Master Lock	—	—	**11G302**	**4EZJ5**
No Finish	Rectangular	1 3/16 in	29/32 in	Open	5/16 in	2 in x 2 in x 1 in	5 Pin	Master Lock	—	—	**11G302**	**4YH32**
No Finish	Round	1⅛ in	7/8 in	Open	7/16 in	2 in x 2 ½ in x 1 in	5 Pin	Master Lock	—	—	**10G019**	**6T417**
Hardened Steel Shackle Material, High Security												
Chrome-Plated	Square	1 29/64 in	63/64 in	Open	7/16 in	2 in x 2 in x 1 in	5 Pin, 6 Pin	ABUS	**Varies**	**3MPF5***	**8311**	**3MPF8***
Partially Hidden Shackle												
Boron Shackle Material, High Security												
No Finish	Rectangular	1 3/16 in	29/32 in	Shrouded	5/16 in	2 in x 2 in x 1 in	5 Pin	Master Lock	**Varies**	**4YH33**	**11G304**	**4YH34**
Long Shackle												
Boron Shackle Material, High Security												
Chrome-Plated	Rectangular	2 in	¾ in	Open	3/8 in	2 in x 2 in x ¾ in	5 Pin	American Lock	**Varies**	**3HWH6**	**41635**	**3HWH7**
Chrome-Plated	Rectangular	2 in	¾ in	Open	5/16 in	2 ½ in x 2 in x 1 in	7 Pin	American Lock	—	—	**15546**	**4EZK7†**
Chrome-Plated	Rectangular	2 in	¾ in	Open	9/32 in		7 Pin	American Lock	**Varies**	**4EZK5†**	—	—
Chrome-Plated	Rectangular	3 in	¾ in	Open	5/16 in		7 Pin	American Lock	—	—	**15546**	**4EZL2†**
Chrome-Plated	Rectangular	3 in	¾ in	Extended	¼ in	2 ½ in x 1 ½ in x 1 in	5 Pin	American Lock	**Varies**	**3KJT4**	—	—
Chrome-Plated	Round	2 in	15/16 in	Open	7/16 in	2 in x 2 ½ in x 1 in	5 Pin	American Lock	**Varies**	**4EZP2**	**27334**	**4EZP3**
No Finish	Rectangular	1½ in	29/32 in	Open	3/8 in	2 in x 2 in x 1 in	5 Pin	Master Lock	**Varies**	**4YH35**	**11G307**	**4EZJ4**
No Finish	Rectangular	1½ in	29/32 in	Open	3/8 in		5 Pin	Master Lock	—	—	—	**4YH36**

** Double lever locking mechanism. † Tubular pin tumbler key locking mechanism.*

Brass Lock Body Padlocks

- Include 2 keys
- Weather-resistant
- Pin tumbler key locking mechanism
- Rectangular lock body

Brass body padlocks resist corrosion for use indoors and outdoors. Solid body locks with no finish are more secure than those with laminated bodies because they don't have exposed rivets that can be tampered with. Chrome-plated padlocks provide additional protection from harsh environments.

Standard Shackle Chrome-Plated Lock Body 48JR09

Standard Shackle Laminated Lock Body 3HWF6

Long Shackle with Tag Zinc-Plated Lock Body 4EZP1

Long Shackle Solid (No Finish) Lock Body 14J892

Lock Body Finish	Lock Body Shape	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Config.	Shackle Dia.	Nominal Lock Body Dim.	No. of Pins	Locking Mechanism	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Standard Shackle													
Boron Shackle Material, High Security													
No Finish	Rectangular	1 1/16 in	25/32 in	Open	¼ in	2 in x 1 ½ in x 1 in	5 Pin	Ball Bearing	Master Lock	10G044	4EZH3*	Varies	4RD85*
No Finish	Rectangular	1 1/16 in	25/32 in	Open	¼ in		5 Pin	Ball Bearing	Master Lock	10G200	4RD86*	—	—
No Finish	Rectangular	1 1/16 in	25/32 in	Open	¼ in		5 Pin	Ball Bearing	Master Lock	10G121	3JZJ5	—	—
No Finish	Rectangular	1 3/16 in	29/32 in	Open	5/16 in	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Master Lock	10G201	4RF01*	—	—
Hardened Steel Shackle Material, High Security													
Chrome-Plated	Rectangular	7/8 in	13/16 in	U-Shape	¼ in	1 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	GR9	48JR06	—	—
Chrome-Plated	Rectangular	15/16 in	15/16 in	U-Shape	¼ in		5 Pin	Double Lever	—	GR4	48JR10	—	—
Chrome-Plated	Rectangular	15/16 in	1 ½ in	U-Shape	¼ in	2 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	—	—	Varies	48JR09
Chrome-Plated	Rectangular	31/32 in	1 in	U-Shape	9/32 in	1 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	GR4	48JR14	—	—
Chrome-Plated	Rectangular	31/32 in	1 in	U-Shape	9/32 in	2 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	—	—	Varies	48JR13
Steel Shackle Material, General Security													
Laminated	Rectangular	¾ in	5/8 in	Open	9/32 in	3 in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Master Lock	712	1U171	Varies	1U170
Laminated	Rectangular	15/16 in	¾ in	Open	5/16 in	2 in x 2 in x 1 in	4 Pin	Ball Bearing	Master Lock	X2431	1U169	Varies	1U168
Laminated	Rectangular	1 in	15/16 in	Open	3/8 in		4 Pin	Ball Bearing	Master Lock	A731	3HWF7	Varies	3HWF6
No Finish	Rectangular	7/16 in	3/8 in	Open	5/32 in	1 in x ½ in	3 Pin	Double Lever	Master Lock	213	4YH20	Varies	4YH19
No Finish	Rectangular	7/16 in	3/8 in	Open	3/16 in	1 in x 1 in x ½ in	3 Pin	Double Lever	Master Lock	—	—	Varies	4YH21
No Finish	Rectangular	9/16 in	9/16 in	Open	3/16 in		3 Pin	Double Lever	Master Lock	314	4YH22	—	—
No Finish	Rectangular	13/16 in	3/8 in	Open	¼ in	1 in x 1 ½ in x ½ in	4 Pin	Double Lever	Master Lock	—	—	Varies	4YH23
No Finish	Rectangular	55/64 in	53/64 in	Open	¼ in	1 ½ in x 1 ½ in x ½ in	4 Pin	Double Lever	ABUS	5403	14J890	—	—
No Finish	Rectangular	15/16 in	1 in	Open	9/32 in	1 ½ in x 2 in x ½ in	5 Pin	Double Lever	Master Lock	41242	4YH26	Varies	4YH25
Long Shackle													
Boron Shackle Material, High Security													
No Finish	Rectangular	1½ in	29/32 in	Open	3/8 in	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Master Lock	10G034	4EZG8*	Varies	4RF02*
No Finish	Rectangular	1½ in	29/32 in	Open	3/8 in		5 Pin	Ball Bearing	Master Lock	10G202	4RF03*	—	—
No Finish	Rectangular	1½ in	¾ in	Open	¼ in	2 in x 1 ½ in x 1 in	5 Pin	Ball Bearing	American Lock	—	—	Varies	4EZN7†
No Finish	Rectangular	2½ in	29/32 in	Extended	3/8 in	2 in x 2 in x 1 in	5 Pin	Ball Bearing	Master Lock	10G013	3KJL2*	—	—
No Finish	Rectangular	3 in	¾ in	Open	¼ in	2 in x 1 ½ in x 1 in	5 Pin	Ball Bearing	American Lock	—	—	Varies	4EZN9†
Zinc-Plated	Rectangular	1½ in	¾ in	Open	¼ in		5 Pin	Ball Bearing	American Lock	25314	4EZN8†	—	—
Zinc-Plated	Rectangular	3 in	¾ in	Open	¼ in		5 Pin	Ball Bearing	American Lock	25314	4EZP1†	—	—
Hardened Steel Shackle Material, High Security													
Chrome-Plated	Rectangular	2½ in	15/16 in	U-Shape	¼ in	1 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	GR4	48JR12	—	—
Chrome-Plated	Rectangular	2½ in	1 in	U-Shape	9/32 in		5 Pin	Double Lever	—	GR4	48JR16	—	—
Chrome-Plated	Rectangular	2½ in	13/16 in	U-Shape	¼ in	2 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	—	—	Varies	48JR05
Chrome-Plated	Rectangular	2½ in	15/16 in	U-Shape	¼ in		5 Pin	Double Lever	—	—	—	Varies	48JR11
Chrome-Plated	Rectangular	2½ in	1 in	U-Shape	9/32 in		5 Pin	Double Lever	—	—	—	Varies	48JR15
Chrome-Plated	Rectangular	2¾ in	13/16 in	U-Shape	¼ in	1 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	GR9	48JR08	—	—
Chrome-Plated	Rectangular	2¾ in	1 ½ in	U-Shape	¼ in	2 ½ in x 1 ½ in x ½ in	5 Pin	Double Lever	—	—	—	Varies	48JR07
Steel Shackle Material, General Security													
Laminated	Rectangular	1½ in	¾ in	Open	5/16 in	2 in x 2 in x 1 in	4 Pin	Ball Bearing	Master Lock	404	3HUD6	Varies	3HUD5
Laminated	Rectangular	2 in	5/8 in	Open	9/32 in	1 ½ in x 1 ½ in x 1 in	4 Pin	Ball Bearing	Master Lock	2525	3HUD4	Varies	3HUD3
Laminated	Rectangular	2½ in	15/16 in	Open	3/8 in	2 in x 2 in x 1 in	4 Pin	Ball Bearing	Master Lock	A690	3HWG2	—	—
Laminated	Rectangular	2½ in	¾ in	Open	5/16 in		4 Pin	Ball Bearing	Master Lock	505	3HUD8	Varies	3HUD7
Laminated	Rectangular	5¾ in	¾ in	Open	5/16 in		4 Pin	Ball Bearing	Master Lock	540	3HUE1	Varies	3HUD9
No Finish	Rectangular	1½ in	¾ in	Open	¼ in	1 in x 1 ½ in x ½ in	4 Pin	Double Lever	—	—	—	Varies	1XRV7
No Finish	Rectangular	2 in	¾ in	Shrouded	¼ in		4 Pin	Double Lever	—	—	—	Varies	1XRV8
No Finish	Rectangular	2 31/64 in	53/64 in	Extended	¼ in	1 ½ in x 1 ½ in x ½ in	4 Pin	Double Lever	ABUS	5403	14J892	—	—

** Rekeyable. † Include a riveted blank brass tag, which can be field engraved for identification purposes.*

Aluminum Lock Body Padlocks

- Include 2 keys
- Weather-resistant
- Double-lever locking mechanism, except 38W786 is ball bearing
- Pin tumbler key locking mechanism
- Rectangular lock body, except 6WNW7 is square

Padlocks resist corrosion and can be used both indoors and outdoors. Chrome-plated padlocks further protect against harsh environments. All padlocks have chrome-plated shackles.

Standard Hardened-Steel Shackle Chrome-Plated Lock Body 38W786

Standard Steel Shackle Chrome-Plated Lock Body 6WNW7

Long Hardened Steel Shackle Solid (No Finish) Lock Body 48JP90

Lock Body Finish	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Nominal Lock Body Dim.	No. of Pins	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Standard Shackle										
Hardened Steel Shackle Material, General Security										
No Finish	1 in	7/8 in	13/64 in	1 in x 1 in x ½ in	4 Pin	—	GR7	48JP87	—	—
No Finish	49/64 in	1 3/16 in	13/64 in	2 in x 1 in x ½ in	4 Pin	—	—	—	Varies	48JP86
Hardened Steel Shackle Material, High Security										
Chrome-Plated	1 in	¾ in	¼ in	2 ½ in x 1 ½ in x 1 in	5 Pin	American Lock	—	—	Varies	38W786
No Finish	1 in	7/8 in	15/64 in	1 ½ in x 1 ½ in x ½ in	5 Pin	—	GR6	48JP89	—	—
No Finish	15/16 in	7/8 in	9/32 in	1 ½ in x 2 in x ½ in	5 Pin	—	GR6	48JP95	—	—
No Finish	1 in	15/64 in	15/64 in	2 ½ in x 1 ½ in x ½ in	5 Pin	—	—	—	Varies	48JP88
No Finish	1 in	15/64 in	15/64 in	2 ½ in x 2 in x ½ in	5 Pin	—	—	—	Varies	48JP94
No Finish	1 in	15/64 in	15/64 in		5 Pin	—	—	—	Varies	48JP96
Steel Shackle Material, General Security										
Chrome-Plated	29/32 in	55/64 in	¼ in	1 in x 1 ½ in x ½ in	5 Pin	ABUS	—	—	Varies	6WNW7
No Finish	31/32 in	7/8 in	5/16 in	2 in x 2 in x ½ in	5 Pin	—	GR3	48JP98	—	—
No Finish	31/32 in	7/8 in	5/16 in	2 in x 2 in x 1 in	5 Pin	—	GR3	48JR01	—	—
No Finish	31/32 in	7/8 in	5/16 in		5 Pin	—	GR3	48JR03	—	—
No Finish	1 in	13/16 in	9/32 in	3 in x 2 in x 1 in	5 Pin	—	—	—	Varies	48JP99
Long Shackle										
Hardened Steel Shackle Material, High Security										
No Finish	1 9/16 in	7/8 in	15/64 in	1 ½ in x 1 ½ in x ½ in	5 Pin	—	GR6	48JP91	—	—
No Finish	2 ½ in	7/8 in	15/64 in		5 Pin	—	GR6	48JP93	—	—
No Finish	1 ½ in	1 ¼ in	5/16 in	1 ½ in x 2 in x 1 in	5 Pin	—	—	48JR04	—	—
No Finish	1 ½ in	15/64 in	15/64 in	2 ½ in x 1 ½ in x ½ in	5 Pin	—	—	—	Varies	48JP90
No Finish	2 ½ in	15/64 in	15/64 in		5 Pin	—	—	—	Varies	48JP92

Standard Shackle Laminated Steel Lock Body with Cover 1JAJ8

Standard Shackle Solid (No Finish) Lock Body 430J31

Coreless Keyed Padlocks

- Rekeyable
- Weather-resistant
- Pin tumbler key locking mechanism
- Rectangular lock body

Padlocks contain interchangeable core cylinders (sold separately) that allow the padlocks to be rekeyed or keyed into an existing system without taking the locks apart. 425N95 has a breakaway shackle that can be broken with a hammer blow for applications where the lock may need to be removed rapidly.

Long Breakaway Shackle Chrome-Plated Lock Body 425N95

Padlock Body Type	Lock Body Finish	▶CHOOSE: Lock Body Color	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Finish	Nominal Lock Body Dim.	No. of Pins	Keyway Type	Brand	Item No.
Standard Shackle											
Boron Shackle Material, High Security											
Covered	Laminated	Black	1 1/8 in	⅞ in	5/16 in	Chrome-Plated	2 ½ in x 2 in x 1 in	6 Pin	Accept any OEM SFIC	Master Lock	**1JAJ8**
Brass	No Finish	Gold	1 1/8 in	¾ in	⅜ in	Chrome-Plated	2 in x 2 in x 1 in	6 Pin	Schlage Everest and Primus	American Lock	**430J31**
Brass	No Finish	Gold	1 3/16 in	25/32 in	5/16 in	Chrome-Plated		6 Pin	Accept any OEM SFIC	Master Lock	**1JAK5**
Steel Shackle Material, General Security											
Brass	No Finish	Yellow	63/64 in	15/16 in	5/16 in	Nano-Protect	2 in x 2 in x ¾ in	5 Pin, 7 Pin	Interchangeable Core	ABUS	**14J880**
Covered	No Finish	Black	1 ⅜ in	1 in	7/16 in	Nano-Protect	3 in x 2 ½ in x 1 in	5 Pin, 6 Pin		ABUS	**14J884**
Covered	No Finish	Black	1 1/16 in	15/16 in	5/16 in	Nano-Protect	2 ½ in x 2 in x 1 in	5 Pin, 6 Pin		ABUS	**14J883**
Long Shackle											
Boron Shackle Material, High Security											
Brass	No Finish	Gold	1 9/16 in	25/32 in	5/16 in	Chrome-Plated	2 in x 2 in x 1 in	6 Pin	Accept any OEM SFIC	Master Lock	**1JAK7**
Brass	No Finish	Gold	2 in	¾ in	⅜ in	Chrome-Plated		6 Pin	Schlage Everest and Primus	American Lock	**430J32**
Stainless Steel Shackle Material, General Security											
Brass	Chrome-Plated	Silver	1 ½ in	⅞ in	¼ in	—	2 in x 1 ½ in x 1 in	7 Pin	Accepts Any SFIC Keyway	Best	**52HK47**
Brass	Chrome-Plated	Silver	1 ½ in	⅞ in	—	—		7 Pin		Best	**425N95**
Brass	No Finish	Gold	1 ½ in	⅞ in	5/16 in	—	2 in x 2 in x ¾ in	7 Pin		Best	**425R06**
Steel Shackle Material, General Security											
Aluminum	No Finish	Black, Blue, Red	1 ½ in	29/32 in	¼ in	Nano-Protect	2 in x 1 ½ in x 1 in	6 Pin	Interchangeable Core	ABUS	**G3510**

Standard Boron Shackle Laminated Lock Body 6T403

Standard Hardened Steel Shackle Solid (No Finish) Lock Body 1XRU7

Covered Steel Lock Body Padlocks

- Include 2 keys
- Pin tumbler key locking mechanism
- Rectangular lock body

Covered padlocks withstand harsh weather and corrosive environments. Models with BumpStop technology prevent rotation of the cylinder so the padlock remains locked. Partially hidden shackle padlocks resist cutting. Locks with rekeyable cylinders provide tens of thousands of key changes.

Weather Tough Laminated Steel—Padlocks have chrome rust-proofing for strength and longer life.

Pro Series—Shrouded padlocks offer superior resistance to cutting by minimizing shackle exposure.

Partially-Hidden Boron Shackle Laminated Lock Body 6T414

Long Shackle Laminated Lock Body 3JZG5

Lock Body Finish	Lock Cover Material	Weather Resistant	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Nominal Lock Body Dim.	No. of Pins	Rekeyable	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Standard Shackle, Boron Material													
WeatherTough, High Security													
Laminated	Plastic Coated	Yes	1 ⅜ in	⅞ in	7/16 in	3 in x 2 ½ in x 1 in	5 Pin	Yes	Master Lock	10G015	**6T409**	Varies	**6T408**
Laminated		Yes	1 ⅜ in	⅞ in	⅜ in		5 Pin	Yes	Master Lock	10G014	**6T407**	Varies	**6T406**
Laminated		Yes	1 1/8 in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	10G012	**6T404**	Varies	**6T403** *
WeatherTough with BumpStop, High Security													
Laminated	Plastic Coated	Yes	1 ⅜ in	⅞ in	7/16 in	3 in x 2 ½ in x 1 in	5 Pin	Yes	Master Lock	10G015	**4EZG1**	Varies	**4EZF9**
Laminated		Yes	1 ⅜ in	⅞ in	⅜ in		5 Pin	Yes	Master Lock	10G001	**4EZG3**	Varies	**4EZG2**
Laminated		Yes	1 1/8 in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	10G020	**4EZG5**	Varies	**4EZG4**
Standard Shackle, Hardened Steel Material													
General Security													
No Finish	—	No	—	—	⅜ in	2 in x 1 ½ in x 1 in	4 Pin	—	—	—	—	Varies	**1XRU7**
Standard Shackle, Steel Material													
Laminated	Vinyl Coated	Yes	¾ in	½ in	⅜ in	2 in x 1 ½ in x 1 in	4 Pin	No	Master Lock	3210	**6MCP7**	Varies	**6MCP5**
Partially Hidden Shackle, Boron Material													
Pro Series, High Security													
Laminated	—	No	¾ in	⅞ in	7/16 in	3 in x 2 ½ in x 1 in	5 Pin	Yes	Master Lock	—	—	Varies	**6T414**
Laminated		No	¾ in	⅞ in	⅜ in		5 Pin	Yes	Master Lock	—	—	Varies	**6T412**
Laminated	Plastic Coated	Yes	¾ in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	—	—	Varies	**6T410**
No Finish	Steel Casing	No	¾ in	⅞ in	7/16 in	3 in x 2 ½ in x 1 in	5 Pin	Yes	Master Lock	10G018	**6T415**	—	—
No Finish		No	¾ in	⅞ in	⅜ in		5 Pin	Yes	Master Lock	10G017	**6T413**	—	—
No Finish		No	¾ in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	10G016	**6T411**	—	—
Long Shackle, Boron Material													
WeatherTough, High Security													
Laminated	Plastic Coated	Yes	2 ½ in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	10G013	**6T405**	—	—
Laminated		Yes	2 ½ in	⅞ in	5/16 in		5 Pin	Yes	Master Lock	10G202	**3JZG5**	—	—
WeatherTough with BumpStop, High Security													
Laminated	Plastic Coated	Yes	2 ½ in	⅞ in	5/16 in	3 in x 2 in x 1 in	5 Pin	Yes	Master Lock	10G024	**4EZG6**	—	—
Long Shackle, Steel Material													
General Security													
Laminated	Vinyl Coated	Yes	2 in	½ in	⅜ in	2 in x 1 ½ in x 1 in	4 Pin	No	Master Lock	3210	**6MCP8**	Varies	**6MCP6**

** For additional colors, go to Grainger.com.*

Breakaway Shackle Padlocks

1U176

- Include 2 keys
- General security level

Laminated steel padlocks feature a warded key locking tumbler and a special breakaway shackle for emergency access to sprinkler shutoff valves and fire hose. Shackle is broken with a hammer blow. Padlocks are keyed alike and feature a nickel-finish shackle.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Material	Nominal Lock Body Dim.	No. of Pins	Key Code	Item No.
13/16 in	13/16 in	9/32 in	Steel	2 in x 2 in x 1 in	3 Pin	**229**	**1U176**
2 in	13/16 in	9/32 in	Steel		3 Pin	**229**	**4DJR4**

Single-Post Shackle Padlocks

- Include 2 keys
- General security level
- Rectangular lock body

Padlocks have a single-post style shackle, so they fit where standard loop shackles won't. Removable hardened steel shackles are inaccessible to cutters once engaged. Padlocks feature dual-locking levers, a hardened steel bottom plate for extra drill resistance, rubber bumpers, and a 4-pin lock tumbler.

3HUH9

Vertical Shackle Clearance	Shackle Dia.	Nominal Lock Body Dim.	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
⅞ in	⅜ in	1 ½ in x 1 ½ in x 1 in	**456**	**3HWK4**	**Varies**	**3HUH9**
⅞ in	⅜ in		—	—	**Varies**	**3HUJ1**
⅝ in	⅜ in		**522**	**3HWK3**	—	—

Master Lock

Biometric Padlock

- High security level
- Weather-resistant
- Rectangular lock body

Padlock uses fingerprints to unlock so users don't need to keep track of combinations or keys. Features a chrome-plated boron alloy shackle and zinc die-cast lock body that resists corrosion. Padlock holds 10 fingerprints and includes batteries.

Shackle Type	Vertical Shackle Clearance	Shackle Dia.	Nominal Lock Body Dim.	Item No.
Long Shackle	2 in	11/32 in	5 in x 2 in x 1 in	**56JR45**

Master Lock

Bluetooth Padlocks

Standard Shackle 493V57

- High security level

Padlocks are controlled with an app that uses Bluetooth technology to restrict access to property. They eliminate the need for keeping track of keys or combinations and are commonly used when multiple people need access. They feature a chrome-plated boron alloy shackle and zinc die-cast lock body.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Type	Weather Resistant	Lock Body Shape	Nominal Lock Body Dim.	Item No.
⅞ in	13/16 in	9/32 in	Standard Shackle	No	Square	2 in x 2 in x 1 in	**493V57**
2 in	15/16 in	11/32 in	Long Shackle	Yes	Rectangular	3 in x 2 in x 2 in	**493V58**

American Lock

Government Padlocks

- Standard shackle
- Include 2 keys
- Weather-resistant
- Ball bearing locking mechanism

All key-retaining padlocks feature BumpStop advanced cylinder technology to ensure the padlock stays locked. Bodies are stamped "US". Meet stringent U.S. Government CID-A-A-59486 and CID-A-A59487 standards, including bump-resistance requirement.

Solid Steel—5-pin rekeyable cylinder and nonremovable keys. Included keys are brass.

Solid Brass—5-pin nonrekeyable cylinder. Additional NSNs available, call 1-800-GRAINGER (472-4643).

Solid Steel Lock Body Boron Shackle 6DPX9

Steel Lock Body Boron Shackle with Chain 6DPY2

Solid Brass Lock Body Brass Shackle 6DPY0

Lock Body Material	Lock Body Finish	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Finish	Nominal Lock Body Dim.	Includes Chain	Key Retaining	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Boron Shackle Material, High Security												
Steel	Zinc-Plated	1 ⅛ in	¾ in	5/16 in	Chrome-Plated	2 ½ in x 2 in x 1 in	No	Yes	**MJ34822 / DG34822**	**6DPX9**	**Varies**	**6DPY1**
Steel	Zinc-Plated	1 ⅛ in	¾ in	5/16 in	Brass		No	No	—	**33RL37**	—	—
Steel	Zinc-Plated	1 ⅛ in	¾ in	5/16 in	Chrome-Plated		Yes	Yes	—	—	**Varies**	**6DPY2**
Brass Shackle Material, General Security												
Brass	No Finish	1 in	¾ in	¼ in	Chrome-Plated	1 ½ in x 1 ½ in x 1 in	No	Yes	**DG34823**	**6DPY0**	**Varies**	**6DPY3**

Partially Hidden Shackle Stainless Steel Disc Lock Body Padlocks and Hasps

ABUS Security Tech Germany · Master Lock

- Include 2 keys, except 4YH18 includes 1 key
- Weather-resistant
- Pin tumbler key locking mechanism
- Round lock body

These solid (no finish) padlocks have a disc shape that helps prevent it from being forced open. Partially hidden shackle protects against cutting and smashing.

Disc Padlock Hasps—Specially designed with a hardened steel loop to make the lock more resistant to cutting.

Stainless Steel Shackle 3TMN7

Steel Shackle 4YH18

Double-Hinge Hasp 3MPJ2

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Body Width	Body Dia.	Body Thickness	No. of Pins	Key Retaining	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Stainless Steel Shackle Material, General Security												
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 7/32 in	5 Pin	Yes	ABUS	**113**	**3TMN8**	—	—
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 7/32 in	5 Pin	Yes	ABUS	**123**	**3TMN9**	—	—
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 7/32 in	5 Pin	Yes	ABUS	**198**	**3TMP1**	—	—
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 7/32 in	5 Pin	Yes	ABUS	—	**3XVY5***	—	—
43/64 in	21/32 in	⅜ in	2 ¾ in	2 ¾ in	1 7/32 in	5 Pin	Yes	ABUS	—	—	**Varies**	**3TMN7**
33/64 in	21/32 in	5/16 in	2 23/64 in	2 ⅜ in	1 1/16 in	4 Pin	Yes	ABUS	**113**	**3TMN6**	**Varies**	**3TMN5**
5/16 in	33/64 in	¼ in	2 1/64 in	2 in	1 in	4 Pin	Yes	ABUS	**113**	**3TMN4**	**Varies**	**3TMN3**
Steel Shackle Material, General Security												
45/64 in	63/64 in	13/32 in	3 5/32 in	3 ¼ in	1 7/32 in	6 Pin	Yes	ABUS	**113**	**3TMP7**	**Varies**	**3TMP6**
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 3/16 in	5 Pin	Yes	ABUS	**113**	**3TMP3**	**Varies**	**3TMP2**
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 3/16 in	5 Pin	Yes	ABUS	**123**	**3TMP4**	—	—
43/64 in	25/32 in	⅜ in	2 ¾ in	2 ¾ in	1 3/16 in	5 Pin	Yes	ABUS	**144**	**3TMP5**	—	—
17/32 in	11/16 in	5/16 in	2 23/64 in	2 ⅜ in	1 1/32 in	4 Pin	Yes	ABUS	**28**	**6WNY4**	**Varies**	**6WNY5**
11/16 in	49/64 in	⅜ in	2 ¾ in	2 ¾ in	1 1/16 in	5 Pin	Yes	ABUS	**303**	**5JKP5**	**Varies**	**5JKP4**
11/16 in	49/64 in	⅜ in	2 ¾ in	2 ¾ in	1 1/16 in	5 Pin	Yes	ABUS	—	**3XVY6***	—	—
⅝ in	63/64 in	15/32 in	3 35/64 in	3 ¾ in	1 9/64 in	6 Pin	Yes	ABUS	**131**	**3TMP9**	**Varies**	**3TMP8**
⅝ in	¾ in	⅜ in	2 ¾ in	2 ¾ in	⅞ in	4 Pin	No	Master Lock	**501**	**4YH18†**	—	—
¾ in	¾ in	⅜ in	2 ¾ in	2 ¾ in	1 3/16 in	10 Pin	Yes	ABUS	**7341**	**3TMJ6**	—	—

Description	Max. Shackle Dia.	Hasp Length	Hasp Width	Hasp Height	Brand	Mfr. Model	Item No.
Disk Padlock Hasps with Shackle Shield							
Double Hinge	7/16 in	7 ½ in	2 3/16 in	7 ½ in	ABUS	140/190	**3MPJ2**
Straight	7/16 in	4 ¾ in	2 3/16 in	4 ¾ in	ABUS	140/120	**3MPJ3**

** Pkg. of 2. † Use master key K1.*

Hidden Shackle Steel Lock Body Padlocks and Hasps

Master Lock · American Lock

- Include 2 keys
- Weather-resistant
- Pin tumbler key locking mechanism
- Round lock body

Key-retaining padlocks feature a 6-pin rekeyable cylinder.

Hidden Shackle Padlocks—Hockey puck-style lock design completely surrounds the shackle for high-security pry and cut resistance.

Hasps for Hidden Shackle Padlocks—Shrouded steel hasps protect locks from physical attack. Installation hardware not included. 1JAE4 allows padlock to remain attached while open for easier use.

Solid (No Finish) Lock Body 48RG86

Chrome-Plated Lock Body 48RG87

Hasp 1JAE4

Lock Body Finish	Security Level	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Shackle Material	Locking Bolt Dia.	Body Width	Brand	KEYED ALIKE Key Code	KEYED ALIKE Item No.	KEYED DIFFERENT Key Code	KEYED DIFFERENT Item No.
Hidden Shackle Padlocks												
No Finish	High Security	19/32 in	1 23/32 in	⅜ in	Boron Shackle Material	⅜ in	2 ⅞ in	Master Lock	**410K959**	**48RG86**	**Varies**	**48RG85**
Chrome-Plated	High Security	1 9/32 in	1 23/32 in	⅜ in	Boron Shackle Material	⅜ in	2 ⅞ in	American Lock	**287875**	**48RG88**	**Varies**	**48RG87**

H	W	Brand	Item No.
Hasps for Hidden Shackle Padlocks			
4½"	8½"	American Lock	**1JAE4**
4½"	9"	Master Lock	**4YH37**

Dial Combination Padlocks

Standard Hardened Steel Shackle 6X694

Standard Steel Shackle 1XRW5

Long Hardened Steel Shackle 3HWJ1

- Stainless steel round lock body
- General security
- 3-digit, single preset combination

Padlocks restrict access to property and open by turning a dial to the correct combination. They don't require users to keep track of a key. They are commonly used in schools, gyms, and health clubs. Master Lock hardened steel shackle padlocks offer BlockGuard antishim technology, which blocks shim tools from opening the lock.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Lock Body Color	Dial Color	Body Width	Body Dia.	Body Thickness	Brand	Item No.
Standard Shackle									
Hardened Steel Shackle Material									
3/4 in	13/16 in	9/32 in	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	Master Lock	**6X694**
3/4 in	13/16 in	9/32 in	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	Master Lock	**4EZN5** *
Steel Shackle Material									
3/4 in	7/8 in	9/32 in	Silver	Black	2 in	2 in	7/8 in	—	**1XRW5**
11/16 in	11/16 in	3/16 in	Silver	Black	1 9/16 in	1 9/16 in	1 7/64 in	Master Lock	**53GL68**
Long Shackle									
Hardened Steel Shackle Material									
1 1/2 in	13/16 in	9/32 in	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	Master Lock	**3HWJ1**
2 in	13/16 in	9/32 in	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	Master Lock	**3HWJ2**

** Pkg. of 2, both padlocks have the same combination.*

Key-Controlled Dial Combination Padlocks

Standard Boron Shackle 1D569

Standard Hardened Steel Shackle 1D573

Standard Steel Shackle Blue Dial G3498

Long Hardened Steel Shackle 3HWJ3

- Stainless steel round lock body
- General security
- 3-digit, single preset combination

Padlocks open by turning a dial to the correct combination but can also be opened with a key if a user forgets the combination. They are commonly used in schools. Control keys are sold separately and must match the control key code specified by the padlock.

Master Lock hardened steel shackle padlocks offer BlockGuard antishim technology—a unique flat latch technology that blocks shim tools from opening the lock. Locks have the same key as traditional combination lock. 3HWJ5 uses a combination that is easy to remember and dial; ideal for people with disabilities. 1D569 boron shackle features dual ball-bearing locking mechanism. Double-armored stainless steel body with fully recessed dial resists knock-off attempts.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Lock Body Finish	Lock Body Color	▶CHOOSE: Dial Color	Body Width	Body Dia.	Body Thickness	Control Key Code	Brand	Item No.
Standard Shackle											
Boron Shackle Material											
1 in	15/16 in	5/16 in	Chrome-Plated	Silver	Black	2 3/16 in	2 3/16 in	15/16 in	V70	Master Lock	**1D569**
Hardened Steel Shackle Material											
3/4 in	13/16 in	9/32 in	Chrome-Plated	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	V660	Master Lock	**1D573**
3/4 in	13/16 in	9/32 in	Chrome-Plated	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	Random for new install, specify when ordering if existing system	Master Lock	**4T103**
3/4 in	13/16 in	9/32 in	Chrome-Plated	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	V660	Master Lock	**3HWJ5**
3/4 in	13/16 in	9/32 in	Chrome-Plated	Silver	Blue	1 7/8 in	1 7/8 in	3/4 in	V660	Master Lock	**483N13**
Steel Shackle Material											
27/32 in	53/64 in	9/32 in	Zinc-Plated	Black	Black, Blue, Green, Red, Yellow	2 in	1 7/8 in	1 3/16 in	507A	ABUS	**G3498**
Long Shackle											
Hardened Steel Shackle Material											
1 1/2 in	13/16 in	9/32 in	Chrome-Plated	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	V660	Master Lock	**3HWJ3**
2 in	13/16 in	9/32 in	Chrome-Plated	Silver	Black	1 7/8 in	1 7/8 in	3/4 in	V660	Master Lock	**3HWJ4**

Compatible With Lock Part Number	Brand	Item No.
Key-Controlled Dial Combination Padlock Control Keys		
1D569	Master Lock	**4B365**
1D573, 3HWJ3, 3HWJ4, 3HWJ5, 483N13	Master Lock	**4B366**
14Z327, 14Z328, 14Z329, 14Z330, 5JKU7	ABUS	**5JKU8**

Compatible With Lock Part Number	Brand	Item No.
Custom Key Code Dial Combination Padlock Control Key		
4T103	Master Lock	**5T117**

Scrolling Combination Padlocks

Standard Stainless Steel Shackle 5JKW7

Standard Steel Shackle 14Z331

Partially-Hidden Boron Shackle 38W807

Long Hardened Steel Shackle 1U173

- General security
- 4-digit resettable combination, except 14Z331 has a 3-digit combination

Padlocks open by turning a scrolling mechanism to the correct combination. They secure access to property and don't require users to keep track of a key. These padlocks are commonly used on construction equipment, industrial storefront and business gates, and utility boxes.

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Lock Body Material	Lock Body Color	Dial Color	Dial Location	Security Level	Body Width	Body Thickness	Brand	Item No.
Standard Shackle											
Boron Shackle Material											
1 1/16 in	15/16 in	3/8 in	Zinc Die-Cast	Black	Silver	Bottom	High Security	2 1/4 in	1 1/4 in	Master Lock	**6MCR2**
1 1/16 in	15/16 in	3/8 in	Brass	Gold	Silver	Bottom	High Security	2 1/4 in	1 1/4 in	Master Lock	**6MCR0**
Hardened Steel Shackle Material											
1 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	15/16 in	Master Lock	**1U172**
1 in	1 in	5/16 in	Zinc Die-Cast	Black	Gold	Bottom	General Security	2 in	1 in	Master Lock	**6JD54**
1 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	1 in	Master Lock	**33RL40**
Stainless Steel Shackle Material											
1 1/32 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 3/64 in	15/16 in	ABUS	**14J895**
1 1/16 in	1 in	5/16 in	Stainless Steel	Silver	Silver	Bottom	High Security	2 1/4 in	15/16 in	Master Lock	**5JKW7**
Steel Shackle Material											
55/64 in	15/16 in	15/64 in	Zinc Die-Cast	Silver	Silver	Front	General Security	1 21/32 in	45/64 in	ABUS	**14Z331**
1 27/32 in	1 9/64 in	5/16 in	Zinc Die-Cast	Silver	Silver	Front	General Security	2 1/64 in	45/64 in	ABUS	**14Z332**
1 in	1 in	19/64 in	Steel	Silver	Black	Bottom	General Security	2 in	63/64 in	CCL	**36JH48**
Partially Hidden Shackle											
Boron Shackle Material											
1 1/16 in	15/16 in	3/8 in	Brass	Gold	Silver	Bottom	High Security	2 1/4 in	1 1/4 in	Master Lock	**38W807**
Long Shackle											
2 1/16 in	15/16 in	3/8 in	Brass	Gold	Silver	Bottom	High Security	2 1/4 in	1 1/4 in	Master Lock	**6MCR1**
Hardened Steel Shackle Material											
2 1/4 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	15/16 in	Master Lock	**1U173**
2 1/4 in	1 in	5/16 in	Steel	Silver	Silver	Bottom	General Security	2 in	1 1/4 in	Master Lock	**33RL35**
2 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	1 in	Master Lock	**33RL41**
Stainless Steel Shackle Material											
2 1/2 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	1 in	ABUS	**14J896**
2 1/4 in	1 in	5/16 in	Brass	Gold	Gold	Bottom	General Security	2 in	15/16 in	Master Lock	**5JKW8**

Master Lock ABUS Security Tech Germany

Key-Controlled Scrolling Combination Padlocks

- 4-digit resettable combination
- General security

Padlocks open by turning a scrolling mechanism to the correct combination but can also be opened using a key if a user forgets the combination. They are typically used in schools. Control keys are sold separately and must match the control key code specified by the padlock.

Standard Hardened Steel Shackle 4HY70

Standard Steel Shackle 14J899

Long Hardened Steel Shackle 3KJJ2

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Dial Color	Dial Location	Lock Body Material	Lock Body Color	Body Width	Body Thickness	Control Key Code	Brand	Item No.
Standard Shackle											
Hardened Steel Shackle Material											
1 in	1 in	5/16 in	Gold	Bottom	Brass	Gold	2 in	15/16 in	P569	Master Lock	**4HY70**
Steel Shackle Material											
63/64 in	25/32 in	15/64 in	Silver	Side	Zinc Die-Cast	Black	1 49/64 in	3/4 in	AP050	ABUS	**14J899**
Long Shackle											
Hardened Steel Shackle Material											
2 1/4 in	1 in	5/16 in	Gold	Bottom	Brass	Gold	2 in	15/16 in	P225	Master Lock	**3KJJ2**

Compatible With Lock Part Number	Brand	Item No.
Control Keys		
4HY70	Master Lock	**4HY71**
14J899	ABUS	**16P022**
3KJJ2	Master Lock	**3JYV7**

Master Lock ABUS Security Tech Germany

Luggage Padlocks

- Standard shackle
- General security
- Resettable

Padlocks secure access to personal property in luggage, briefcases, and travel bags. They open by turning a scrolling mechanism to the correct combination, and they don't require a key. 2RUF9 Password Plus uses letters, numbers, and symbols for custom passwords. 38W808 and 38W810 are TSA-approved and have a side window for viewing the combination, so TSA screeners can inspect and relock baggage without damaging the lock.

Password Plus Hardened Steel Shackle Cylindrical Lock Body 2RUF9

TSA-Accepted Steel Square Lock Body 38W810

Steel Shackle Gold Rectangular Lock Body 1XRW6

Standard Steel Shackle Rectangular Black Lock Body 4FG14

Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Dia.	Dial Color	Dial Location	Padlock Body Shape	Lock Body Material	Lock Body Color	Body Width	Body Thickness	No. of Digits	Brand	Item No.
Hardened Steel Shackle Material												
1 1/8 in	1 3/8 in	1/4 in	Black	Front	Cylindrical	Zinc Die-Cast	Silver	2 1/2 in	1 in	5	Master Lock	**2RUF9**
Steel Shackle Material												
3/4 in	1/2 in	1/8 in	Silver	Side	Square	Zinc Die-Cast	Silver	1 3/16 in	5/8 in	3	Master Lock	**38W810**
3/4 in	9/16 in	3/16 in	Gold	Side	Rectangular	Brass	Gold	1 3/16 in	3/8 in	4	—	**1XRW6**
7/8 in	7/8 in	1/4 in	Silver	Side	Rectangular	Aluminum	Silver	1 9/16 in	9/16 in	4	Master Lock	**6MCR4**
7/8 in	3/8 in	3/16 in	Silver	Side	Rectangular	Zinc Die-Cast	Black	1 3/16 in	1/2 in	3	Master Lock	**4FG16**
11/16 in	3/8 in	1/8 in	Silver	Side	Rectangular	Zinc Die-Cast	Black	13/16 in	3/8 in	3	Master Lock	**4FG15** *
11/16 in	3/8 in	1/8 in	Silver	Side	Rectangular	Zinc Die-Cast	Black	13/16 in	3/8 in	3	Master Lock	**4FG14**
55/64 in	23/64 in	1/8 in	Silver	Side	Rectangular	Aluminum	Black	57/64 in	17/32 in	3	ABUS	**5JKR8**
63/64 in	35/64 in	13/64 in	Silver	Side	Rectangular	Aluminum	Red	1 39/64 in	11/16 in	4	ABUS	**5JKU4**
1 in	9/16 in	3/16 in	Silver	Side	Rectangular	Aluminum	Silver	1 3/16 in	1/2 in	3	Master Lock	**6MCR3**
1 1/2 in	5/8 in	1/8 in	Silver	Front	Rectangular w/Rounded Corners	Zinc Die-Cast	Blue	1 3/16 in	1/2 in	3	Master Lock	**38W808**

** Includes 2 padlocks.*

Master Lock ABUS Security Tech Germany

Cable Locks, Security Cables, and Security Chains

Cable Lock 3NY54

Cable Locks—Flexible cables wrap around equipment and an anchor point and lock with a key, combination, or both. They are used with items that cannot be secured with a padlock. Vinyl coating helps prevent scratching. 6JD76 and 6JD75 have integrated locks.

Security Cables—Flexible cables wrap around large or bulky items like fences and are secured with a padlock. 3NY54 and 3UU68 Python patented locks hold cable at any position. Braided steel wire cable has looped ends for use with U-locks or padlocks. Vinyl coated.

Security Chains—Tough chains are secured with a padlock to restrict access to high-value items. They are enclosed in a nylon sleeve that protects the chain from damage.

Removable Steel Shackle Padlock—U-shaped lock has double-locking hardened steel removable shackle, heavy-duty cable and chain, and 7-pin tubular cylinder.

Security Cable 6JD72

Cable Lock Type	Cable Length	Cable Diameter	Cable Material	Weather Resistant	Key Type	Brand	Item No.	Pkg. Qty.
Cable Locks								
Fixed Length Cable Locks	6 ft	3/8 in	Braided Steel	Yes	Different	Master Lock	**3NY54**	1
Fixed Length Cable Locks	6 ft	3/8 in	Braided Steel	Yes	Alike	Master Lock	**3UU68**	1
Fixed Length Cable Locks	6 ft	3/8 in	Braided Steel	Yes	Different	Master Lock	**6JD76**	1
Fixed Length Cable Locks	5 ft	3/8 in	Braided Steel	Yes	Combination	Master Lock	**6JD75**	1
Fixed Length Cable Locks	6 ft	5/16 in	Braided Steel	Yes	Alike	Master Lock	**4EZN6**	3
Adjustable Length Cable Locks	6 ft	25/64 in	Steel	No	Different	ABUS	**19YM73**	1
Adjustable Length Cable Locks	6 ft	25/64 in	Steel	No	Different	ABUS	**19YM75**	1

Cable Style	Cable Length	Cable Diameter	Cable Material	Weather Resistant	Brand	Item No.
Security Cables						
Coiled	72 in	3/8 in	Steel	Yes	Master Lock	**6JD72**
Coiled	72 in	1/4 in	Steel	Yes	Master Lock	**38W814**
Coiled	180 in	3/8 in	Steel	Yes	Master Lock	**38W815**
Straight	8 ft	5/16 in	Steel	Yes	ABUS	**14Z344**
Straight	6 1/2 ft	25/64 in	Steel	Yes	ABUS	**14Z345**
Straight	16 1/2 ft	25/64 in	Steel	Yes	ABUS	**14Z346**
Straight	32 3/4 ft	25/64 in	Steel	Yes	ABUS	**14Z347**

Chain Length	Chain Diameter	Chain Material	Chain Finish	Weather Resistant	Brand	Item No.
Security Chains						
2 ft	1/4 in	Steel	Zinc	Yes	ABUS	**3PCE4**
2 ft	5/16 in	Steel	Zinc	Yes	ABUS	**3PCE5**
2 ft	3/8 in	Steel	Zinc	Yes	ABUS	**3PCE6**
2 ft	1/2 in	Steel	Zinc	Yes	ABUS	**3PCE7**
10 ft	1/4 in	Steel	Zinc	Yes	ABUS	**3PCF4**
10 ft	5/16 in	Steel	Zinc	Yes	ABUS	**3PCF5**
10 ft	3/8 in	Steel	Zinc	Yes	ABUS	**3PCF6**
10 ft	1/2 in	Steel	Zinc	Yes	ABUS	**3PCF7**

Security Chain 3PCE4

Body Height	Body Width	Shackle Thickness	Vertical Shackle Clearance	Horizontal Shackle Clearance	Shackle Width	Shackle Diameter	Weather Resistant	Key Type	Brand	Item No.
Removable Steel Shackle Padlock, General Security										
2 13/16 in	3 15/16 in	1 5/8"	2 in	1 5/8 in	1 5/8 in	1/2 in	No	Different	Master Lock	**6JD74**

Removable Steel Shackle Padlock 6JD74

3MPK4

High-Security File Cabinet Bars

ABUS

File cabinet bar features a silver powder-coated finish and a built-in spring-loaded hinge. The bar accepts shackles up to 5⁄16" dia. All mounting hardware is included.

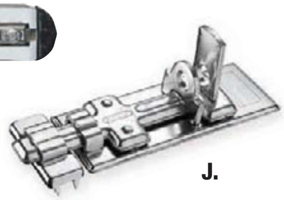
L (in.)	Item No.
12	**3MPK3**
22½	**3MPK4**
34½	**3PCC9**
46	**3PCD1**
56¾	**3PCD2**

A.

G.

H.

I.



J.

Fixed Staple Hasps

For flush-closing doors, gates, and cabinets.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
Fixed Staple Hasp					
A	Bright Stainless Steel	3 ½ in	1 ½ in	13⁄64 in	**3TJN1**
A	Bright Stainless Steel	4 ½ in	1 ½ in	13⁄64 in	**3TJN3**
A	Bright Stainless Steel	6 in	2 in	13⁄64 in	**3TJN6**
C	Zinc	2 in	3⁄16 in	9⁄16 in	**14Z366**
E	Brass	2 ½ in	1 ½ in	9⁄32 in	**4PE29**
F	Steel	3 in	1 ⅛ in	5⁄16 in	**3MPJ5**
F	Galvanized Steel	3 ¾ in	1 ½ in	½ in	**3MPJ6**
F	Steel	4 ½ in	1 ¾ in	½ in	**4T101**
F	Steel	4 ½ in	1 ⅞ in	½ in	**3MPJ7**
F	Steel	5 ¼ in	1 ⅞ in	½ in	**3MPJ8**
F	Steel	6 in	1 ¾ in	½ in	**3MPJ4**
G	Chrome	2 5⁄16 in	¾ in	¼ in	**3MPH2**
G	Chrome	3 ⅛ in	1 in	5⁄16 in	**3MPH3**
H	Stainless Steel	7 ½ in	2 3⁄16 in	7⁄16 in	**3MPJ2**
H	Stainless Steel	4 ¾ in	2 3⁄16 in	7⁄16 in	**3MPJ3**
I	Bright Stainless Steel	2 1⁄64 in	⅞ in	—	**3TJN9**
I	Bright Stainless Steel	2 19⁄32 in	61⁄64 in	—	**3TJP1**
I	Bright Stainless Steel	2 63⁄64 in	1 3⁄64 in	—	**3TJP2**
J	Chrome	4 in	1 ½ in	5⁄16 in	**3MPJ9**
J	Chrome	4 ¾ in	1 3⁄16 in	7⁄16 in	**3MPK1**
—	Zinc	⅞ in	1 ½ in	11⁄32 in	**1RBH7**
—	Zinc	1 ⅝ in	1 ½ in	13⁄32 in	**1RBJ1**
F	Zinc	2 ½ in	1 ½ in	¼ in	**4PE30**
F	Zinc	4 ½ in	1 ½ in	⅜ in	**4PE45**
Fixed Staple Replacement Eye					
—	Zinc	1 in	1 5⁄64 in	11⁄32 in	**4PE47**
Rotating Eye Hasp					
F	Zinc	3 ½ in	1 ½ in	⅜ in	**4PE44**

A.

B.

Adjustable Staple Hasps

Ideal for doors that are warping or sagging.

Key	Hasp Finish	L	W	Max. Shackle Dia.	Item No.
A	Galvanized Steel	3½"	1½"	7⁄16 in	**1RBG7**
A	Galvanized Steel	4½"	1½"	7⁄16 in	**1RBG8**
B	Zinc	3½"	1½"	7⁄16 in	**4PE39**
B	Zinc	4½"	1½"	7⁄16 in	**4PE41**
B	Zinc	6"	1½"	7⁄16 in	**4PE43**
B	Natural	3½"	1½"	7⁄16 in	**4PE34**
B	Natural	4½"	1½"	7⁄16 in	**4PE35**
B	Steel	6"	1½"	7⁄16 in	**4PE37**

A.

E.

B.

G.

Rotating Eye Hasps

Prevent twisting of eye with pry bars.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
Rotating Eye Hasps					
A	Bright Stainless Steel	3 ½ in	1 ½ in	19⁄64 in	**3TJN2**
A	Bright Stainless Steel	4 ½ in	1 ½ in	19⁄64 in	**3TJN4**
A	Bright Stainless Steel	6 in	2 in	19⁄64 in	**3TJN7**
B	Bright Stainless Steel	1 37⁄64 in	⅞ in	11⁄64 in	**3TJL8**
B	Bright Stainless Steel	1 31⁄32 in	⅞ in	11⁄64 in	**3TJL9**
B	Bright Stainless Steel	2 61⁄64 in	1 1⁄16 in	7⁄32 in	**3TJN8**
B	Bright Stainless Steel	2 9⁄16 in	15⁄16 in	13⁄64 in	**3TJN5**
B	Bright Stainless Steel	3 15⁄16 in	1 25⁄64 in	5⁄16 in	**3TJL6**
B	Bright Stainless Steel	4 23⁄32 in	1 37⁄64 in	5⁄16 in	**3TJL7**
D	Galvanized Steel	4 ½ in	1 ½ in	⅜ in	**1RBP2**
D	Galvanized Steel	6 in	1 ½ in	½ in	**1RBH1**
E	Zinc	3 ½ in	1 ½ in	⅜ in	**4PE31**
E	Zinc	4 ½ in	1 ½ in	⅜ in	**4PE32**
E	Zinc	6 in	1 ½ in	½ in	**4PE33**
F	Zinc	6 in	2 in	⅜ in	**1RBN6**
Fixed Eye Hasps					
F	Steel	6 in	2 15⁄16 in	9⁄16 in	**6X700**
Rotating Eye Hasps					
G	Black Powder Coated	3 ½ in	1 ½ in	⅜ in	**1RBP3**
Fixed Eye Hasps					
E	Brass	1 ¾ in	¾ in	5⁄16 in	**1RBF6**
E	Brass	3 ¼ in	1 ½ in	7⁄16 in	**1RBF8**

A.

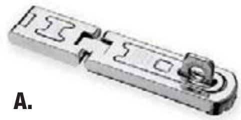
B.

C.

Corner Hasps

For applications with an inside or outside 90° corner.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
A	Zinc	3 in	1 ½ in	7⁄16 in	**1RBK3**
A	Zinc	4 ½ in	1 ½ in	7⁄16 in	**1RBK6**
B	Galvanized Steel	7 ½ in	1 ¾ in	13⁄16 in	**1RBH4**
B	Zinc	7 ½ in	1 ¾ in	13⁄16 in	**4PE48**
C	Zinc	4 ¾ in	1 ¼ in	7⁄16 in	**3HUJ7**



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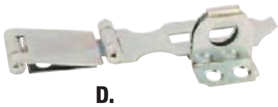
B.



D.

Multihinged Hasps

For use around curves, angles, and where doors do not close flush.

Key	Finish	L	W	Max. Shackle Dia.	Item No.
A	Chrome	4 ⅞ in	1 in	5⁄16 in	**3MPH4**
A	Chrome	5 ⅞ in	1 ⅜ in	⅜ in	**3MPH5**
B	Chrome	7 ⅝ in	1 ¾ in	½ in	**3MPH6**
B	Chrome	9 in	1 ¾ in	½ in	**3MPH7**
D	Zinc	3 in	1 ½ in	7⁄16 in	**4PE46**
D	Zinc	4 ½ in	1 ½ in	7⁄16 in	**1RBP7**
E	Bright Zinc	6 ¼ in	½ in	7⁄16 in	**4FG17**

A.

B.

Locking Hasps

Locking mechanism is available in combination or key lock styles.

Key	Finish	L	W	Item No.	
Combination Hasp					
A	Zinc	6 in	1 ½ in	**1RBP5**	
Key Lock Hasps					
B	Zinc	3 ½ in	1 ½ in	**1RBJ9**	*
B	Chrome	4 ½ in	1 ⅝ in	**4PE49**	*

*** Keyed different.**

CompX NATIONAL

Cam Locks

- Include 2 keys
- All locks have straight, offset cams
- General security level
- Include mounting hardware

Keyed cam locks have an attached arm, or cam, that rotates to lock doors and drawers. They open with a key and secure access to file cabinets, desks, display cases, and vending machines to prevent theft or unauthorized use of the contents.

Keyed Alike—Locks can be accessed with the same key. Lock cores are the same key code.

Keyed Different—Locks can only be accessed by one unique key. Multiple key codes are provided.

Master Keyed—Locks can only be accessed by one unique key or a master key. Locks use master key code D8799 (Grainger part 4TYH5).

Keyed Alike
Brass Lock Body
5EKU1

Keyed Alike
Powder Coated Lock Body
1XTB9

Keyed Different
Nickel Lock Body
5EKP5

Master Keyed
Brass Lock Body
5ELC0

For Material Thickness	Mounting Hole Dia.	Latching Distance	Straight Cam Dim.	Offset Cam Dim.	Unlock Turn Direction	No. of Pins	Brand	▶CHOOSE: Key Code	Item No.
Keyed Alike									
Brass Finish, Disc Tumbler									
7/64 in	3/4 in	7/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	C413A, C415A	**D3729**
15/64 in	3/4 in	5/8 in			Clockwise	5	CompX National	C415A	**5EKU1**
5/8 in	3/4 in	15/16 in			Clockwise	5	CompX National	C413A	**5EKX2**
7/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	C346A, C390A, C415A, C642A	**D3733**
1 1/8 in	3/4 in	1 7/16 in			Clockwise	5	CompX National	C346A, C413A	**D3734**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	C346A, C413A, C420A	**D3735**
Chrome-Plated Finish, Disc Tumbler									
9/32 in	3/4 in	1 in	1 1/4 in L x 5/8 in W	1 3/4 in L x 5/8 in W	Counterclockwise	0	—	C413A, C346A	**D2955**
17/32 in	3/4 in	1 1/4 in			Counterclockwise	0	—	C413A, C346A	**D2956**
25/32 in	3/4 in	1 1/2 in			Counterclockwise	0	—	C413A, C346A, C415A	**D2957**
1 1/32 in	3/4 in	1 3/4 in			Counterclockwise	0	—	C413A, C346A, C415A	**D2958**
1 9/32 in	3/4 in	2 in			Counterclockwise	0	—	C413A, C346A, C415A	**D2959**
1 17/32 in	3/4 in	2 1/4 in			Counterclockwise	0	—	C413A, C346A	**D2961**
Chrome-Plated Finish, Pin Tumbler									
19/64 in	31/64 in	53/64 in	41/64 in L x 3/8 in W	1 in L x 3/8 in W	Counterclockwise	0	—	M01	**1XRY4**
13/64 in	3/4 in	3/4 in	1 1/8 in L x 3/4 in W	1 1/8 in L x 3/4 in W	Clockwise	7	—	T0001	**1XRZ4**
7/16 in	3/4 in	15/16 in			Clockwise	7	—	T0001	**1XRZ5**
5/8 in	3/4 in	1 3/16 in			Clockwise	7	—	T0001	**1XRZ6**
29/32 in	3/4 in	1 29/64 in			Clockwise	7	—	T0001	**1XRZ7**
1 9/64 in	3/4 in	1 11/16 in			Clockwise	7	—	T0001	**1XRZ8**
Nickel Finish, Disc Tumbler									
7/64 in	3/4 in	7/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	C346A, C390A, C413A, C415A, C642A, C205A	**D3736**
15/64 in, 15/16 in	3/4 in	5/8 in			Clockwise	5	CompX National	C346A, C390A, C413A, C415A, C420A	**D3737**
5/8 in	3/4 in	15/16 in			Clockwise	5	CompX National	C346A, C390A, C413A, C415A, C420A, C642A, C205A, C267A	**D3738**
7/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	C346A, C390A, C413A, C415A, C420A, C642A, C205A	**D3739**
1 1/8 in	3/4 in	1 7/16 in			Clockwise	5	CompX National	C346A, C390A, C413A, C415A, C420A, C642A, C267A	**D3741**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	C346A, C390A, C413A, C415A, C420A, C642A	**D3742**
Powder Coated Finish, Disc Tumbler									
25/32 in	3/4 in	1 1/2 in	1 1/4 in L x 5/8 in W	1 3/4 in L x 5/8 in W	Counterclockwise	0	—	C413A, C346A, C415A	**D2964**
1 1/32 in	3/4 in	1 3/4 in			Counterclockwise	0	—	C413A, C346A	**D2965**
9/32 in	3/4 in	1 in			Counterclockwise	0	—	C346A	**1XTB9**
1 9/32 in	3/4 in	2 in			Counterclockwise	0	—	C413A, C415A	**D2966**
1 17/32 in	3/4 in	2 1/4 in			Counterclockwise	0	—	C346A, C415A	**D2967**
Powder Coated Finish, Pin Tumbler									
19/64 in	31/64 in	53/64 in	41/64 in L x 3/8 in W	1 in L x 3/8 in W	Counterclockwise	0	—	M01	**1XRY5**
Keyed Different									
Brass Finish, Disc Tumbler									
7/64 in	3/4 in	7/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	Varies	**5EKR5**
5/8 in	3/4 in	15/16 in			Clockwise	5	CompX National	Varies	**5EKX1**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	Varies	**5ELA3**
1 1/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	Varies	**5EKY5**
7/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	Varies	**5EKV3**
Chrome-Plated Finish, Disc Tumbler									
9/32 in	3/4 in	1 in	1 1/4 in L x 5/8 in W	1 3/4 in L x 5/8 in W	Counterclockwise	0	—	Varies	**1XTE9**
17/32 in	3/4 in	1 1/4 in			Counterclockwise	0	—	Varies	**1XTF1**
25/32 in	3/4 in	1 1/2 in			Counterclockwise	0	—	Varies	**1XTF2**
1 1/32 in	3/4 in	1 3/4 in			Counterclockwise	0	—	Varies	**1XTF3**
1 9/32 in	3/4 in	2 in			Counterclockwise	0	—	Varies	**1XTF4**
1 17/32 in	3/4 in	2 1/4 in			Counterclockwise	0	—	Varies	**1XTF5**
Chrome-Plated Finish, Pin Tumbler									
13/64 in	3/4 in	3/4 in	1 1/8 in L x 3/4 in W	1 1/8 in L x 3/4 in W	Clockwise	7	—	Varies	**1XRY8**
5/8 in	3/4 in	1 3/16 in			Clockwise	7	—	Varies	**1XRZ1**
1 9/64 in	3/4 in	1 11/16 in			Clockwise	7	—	Varies	**1XRZ3**
Nickel Finish, Disc Tumbler									
7/64 in	3/4 in	7/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	Varies	**5EKP5**
15/64 in	3/4 in	5/8 in			Clockwise	5	CompX National	Varies	**5EKR9**
5/8 in	3/4 in	15/16 in			Clockwise	5	CompX National	Varies	**5EKW1**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	Varies	**5EKZ3**
1 1/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	Varies	**5EKX5**
7/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	Varies	**5EKU3**
Powder Coated Finish, Disc Tumbler									
25/32 in	3/4 in	1 1/2 in	1 1/4 in L x 5/8 in W	1 3/4 in L x 5/8 in W	Counterclockwise	0	—	Varies	**1XTF8**
1 17/32 in	3/4 in	2 1/4 in			Counterclockwise	0	—	Varies	**1XTG2**
Master Keyed									
Brass Finish, Disc Tumbler									
7/8 in	3/4 in	1 3/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	—	**5EKW0**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	—	**5ELC0**
Nickel Finish, Disc Tumbler									
7/64 in	3/4 in	7/16 in	1 1/2 in L x 5/8 in W	1 1/8 in L x 5/8 in W	Clockwise	5	CompX National	—	**5EKR4**
15/64 in	3/4 in	5/8 in			Clockwise	5	CompX National	—	**5EKT8**
5/8 in	3/4 in	15/16 in			Clockwise	5	CompX National	—	**5EKX0**
7/8 in	3/4 in	1 3/16 in			Clockwise	5	CompX National	—	**5EKV2**
1 1/8 in	3/4 in	1 7/16 in			Clockwise	5	CompX National	—	**5EKY4**
1 7/16 in	3/4 in	1 25/32 in			Clockwise, Counterclockwise	5	CompX National	—	**5ELA2**

Scan. Order. Done.
Details on page A1.

Keyed-Alike
1XRX3

Keyed Different
4TYF2

Master Keyed
4TYG7

Cabinet and Drawer Dead Bolt Locks

These locks secure cabinets and drawers to prevent theft and unauthorized use of the contents. The key can be removed in both the unlocked and locked positions. **Counterclockwise** models have 2 mounting holes and include 2 keys.

Clockwise locks offer 3 mounting holes and include hardware.

Master Keyed dead bolt locks use master key code D8799 (Grainger part 4TYH5).

For Material Thickness	Mounting Style	Mounting Hole Dia.	Throw Length	Lock Orientation	Lock Body Shape	Lock Body Dim.	Unlock Turn Direction	Unlocking Radius	Brand	Key Code	Item No.
Keyed Alike											
Chrome-Plated Finish											
⅞ in	Rim	⅞ in	—	Vertical	Diamond		Counterclockwise	Quarter-Turn	—	CH751	**1XRX3**
⅞ in	Rim	¾ in	—	Vertical	Square	2.125 in x 2.125 in x 2 in	Counterclockwise	Quarter-Turn	—	CH751	**1XRX9**
⅞ in	Rim	¾ in	—	Vertical	Square		Counterclockwise	Quarter-Turn	—	CH751	**1XRY2**
15/16 in	Through Hole	⅞ in	⅛ in	Horizontal Left	Round	1 ¾ in x 1 ½ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	C346A	**4TYF3**
1 ⅛ in	Rim	⅞ in	—	Vertical	Diamond		Counterclockwise	Quarter-Turn	—	CH751	**1XRX4**
1 ⅜ in	Rim	⅞ in	—	Vertical	Diamond		Counterclockwise	Quarter-Turn	—	CH751	**1XRX5**
1 ⅜ in	Rim	⅞ in	—	Vertical	Diamond	2.125 in x 2.125 in x 2 in	Counterclockwise	Quarter-Turn	—	CH751	**1XRX8**
1 ¼ in	Rim	¾ in	—	Vertical	Square		Counterclockwise	Quarter-Turn	—	CH751	**1XRY1**
1 ¼ in	Rim	¾ in	—	Vertical	Square		Counterclockwise	Quarter-Turn	—	CH751	**1XRY3**
Keyed Different											
Brass Finish											
15/16 in	Through Hole	⅞ in	⅛ in	Horizontal Left	Round	1 ½ in x 1 ½ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYF7**
15/16 in	Through Hole	⅞ in	7/16 in	Vertical	Round	1 ½ in x 1 ¾ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYE6**
Chrome-Plated Finish											
15/16 in	Through Hole	⅞ in	11/32 in	Vertical	Diamond	1 27/64 in x 2 1/16 in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYG3**
15/16 in	Through Hole	⅞ in	⅛ in	Horizontal Left	Round	1 ¾ in x 1 ½ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYF2**
Master Keyed											
Brass Finish											
15/16 in	Through Hole	⅞ in	11/32 in	Vertical	Diamond	1 27/64 in x 2 1/16 in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYH3**
15/16 in	Through Hole	⅞ in	⅛ in	Horizontal Left	Round	1 ¾ in x 1 ½ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYG2**
Chrome-Plated Finish											
15/16 in	Through Hole	⅞ in	11/32 in	Vertical	Diamond	1 27/64 in x 2 1/16 in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYG7**
15/16 in	Through Hole	⅞ in	⅛ in	Horizontal Left	Round	1 ¾ in x 1 ½ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYF6**
15/16 in	Through Hole	⅞ in	7/16 in	Vertical	Round	1 ½ in x 1 ¾ in x 1 3/16 in	Clockwise	Half-Turn	CompX National	Varies	**4TYE5**

Threaded Sleeve

Twist Lock

Socket Lock

Nickel-Plated Beaded Chain
2YB23

Nickel-Plated Steel
100 ft. Spool

Snap-On Double Hook

Wrist Coil
20KR18

Large C-Clip Carabiner

Key Ring Clips and Chains

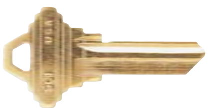
Threaded closure opens and closes with a connector nut. Twist Lock opens into a "figure-8" shape to open and close the ring; a crimper tool closes ring permanently. Socket Lock uses a ball-knob and socket closure to lock ring. Chain on spools can be cut to any length, and couplings connect the chain.

Description	Ring Size	Brand	Item No.	Pkg. Qty.
Carbon Steel with Threaded Sleeve Key Rings				
Silver	6 in	—	**25DU46**	1
Nylon-Coated Twist Lock Key Rings				
Clear	1 ⅝ in	Lucky Line	**3EGL9**	5
Nylon-Coated Socket Lock Key Rings				
Clear	1 ⅝ in	Lucky Line	**3HJV2**	5
Split Ring Key Rings				
1 in Ring	1 in	—	**1F098**	25
1¼ in Ring	1 ¼ in	—	**1F099**	25
1½ in Ring	1 ½ in	—	**1F100**	25
Nickel-Plated	2 in	Lucky Line	**16D511**	10
Nickel-Plated	3 in	Lucky Line	**16D512**	10
Beaded Chain and Couplings				
4½ in Nickel Plated	—	—	**2YB23**	100
4½ in Brass Plated	—	—	**2YB24**	100
6 in Brass Plated	—	—	**2YB25**	100
Steel, 100 ft. Spool	—	Lucky Line	**16D513**	1

Description	Ring Size	Brand	Item No.	Pkg. Qty.
Key Ring Clips				
Snap-On Double Hook	—	—	**25PA12**	1
Snap-On Carabiner Hook	—	—	**25PA28**	1
Quick Release Ring	—	—	**25PA26**	1
Clip-On Belt Hook	—	—	**25PA32**	1
Bottle Opener w/Ring	—	Lucky Line	**3EGN3**	10
Key Float w/Ball Chain	—	Lucky Line	**3EGN9**	1
Key Rack	1 ¼ in	Nite Ize	**6UKP8**	1
Large C-Clip Carabiner	—	Lucky Line	**15E561**	5
Wrist Coil Key Chain				
Includes 2" Split Ring	—	Lucky Line	**20KR18**	5
Key Ring Clips				
Snap-On Double Hook	—	—	**25PA12**	1
Snap-On Carabiner Hook	—	—	**25PA28**	1
Quick Release Ring	—	—	**25PA26**	1
Clip-On Belt Hook	—	—	**25PA32**	1
Bottle Opener w/Ring	—	Lucky Line	**3EGN3**	10
Key Float w/Ball Chain	—	Lucky Line	**3EGN9**	1
Key Rack	1 ¼ in	Nite Ize	**6UKP8**	1
Large C-Clip Carabiner	—	Lucky Line	**15E561**	5

Nickel-Plated

Brass Finish



Key Blanks

Blanks can be used for making replacement keys. All are nickel-plated finish, unless indicated (BR) brass in table.

For replacement keys: Match the Ilco Model Number in the chart to the one on your existing key.

Lock Manufacturer	No. of Pins	Mfr. Model	Item No.	Pkg. Qty.
American(R)	—	1653-AM4	**2GVK8**	10
American(R)	5	1045-AM3	**1GAP4**	10
Arrow(R)	5	1179-AR1	**1GAT3**	10
Arrow(R)	6	1179A-AR4	**1GAU1**	10
Best(R)	7	A1114A-BE2	**1GAR5**	10
Best®	—	1A1E1	**12Z007**	50
Best®	—	1A1J1	**12Z010**	50
CCL(R)	5	S1000V-CO68	**2GVJ4**	10
CCL®	6	1000V-CO26	**3EMP6**	10
Chicago(R)	5	1041G-CG1	**3EMP4**	10
Chicago(R)	5	1041T-CG16	**1GAP5**	10
Chicago(R)	6	101AM-AP1	**1GAP3**	10
Chicago(R)	6	102AM-AP2	**1GAT2**	10
Chicago(R)	6	103AM-AP3	**1GAT1**	10
Chicago(R)	6	104AM-AP4	**1GAR7**	10
Corbin	6	A1001AH-CO91	**3EMP5**	10
Corbin	5	1003M-CO106	**1GAK3**	10
Corbin	6	A1001EH-CO88	**1GAT7**	10
Corbin	6	A1011-L4	**2GVJ2**	10
Dexter(R)	6	D1098B-DE2	**2GVJ7**	10
ESP	5	1502	**3EMP8**	10
Falcon(R)	6	A1054WD-FA3	**1GAP6**	10
Fort(R)	6	L1054G-FR2	**2GVK2**	10

Lock Manufacturer	No. of Pins	Mfr. Model	Item No.	Pkg. Qty.
Hayworth	5	1597-HAW1	**3EMP9**	10
Hayworth	5	1598-HAW2	**3EMR1**	10
Hayworth	5	1599-HAW3	**3EMR2**	10
Independent(R)	5	1043J-IL11	**1GAK9**	10
Independent(R)	5	L1054B-IN8	**1GAJ8**	10
Kwikset(R)	5	KW1-BR	**1GAU8** *	50
Kwikset(R)	5	KW1-NP	**1GAV2**	50
Kwikset(R)	5	1176-KW1	**1GAJ9**	10
Kwikset(R)	6	A1176ST-KW10	**1GAJ5**	10
Master(R) Padlock	5	1092R	**3EMR4**	10
Master(R) Padlock	6	1092NR-M16	**3EMR5**	10
Master(R)	—	1092VM-M5	**2GVJ9**	10
Master(R)	4	1092-M1	**1GAK5**	10
Master(R)	4	1092B-M2	**1GAU4**	10
Master(R)	4	1092N-M10	**1GAP8**	10
Master(R)	4	1092DS-M13	**1GAN4**	10
Master(R)	4	1092-900-M19	**1GAU3**	10
Master(R)	4	M1-BR	**1GAV3** *	50
Master(R)	5	1092-6000-M20	**1GAN8**	10
National(R)	4	1069L-NA14	**1GAJ6**	10
National(R)	4	1069G-RO7	**1GAU6**	10
National(R)	5	1069LB-NA12	**1GAP7**	10
National(R)	5	1069N-RO3	**1GAK7**	10

Lock Manufacturer	No. of Pins	Mfr. Model	Item No.	Pkg. Qty.
Russwin(R)	5	1011D1-RU45	**3EMR7**	10
Sargent(R)	5	1007LA	**3EMR8**	10
Sargent(R)	6	S22	**1GAR8**	10
Schlage(R)	6	A1145L-SC20	**3EMT1**	10
Schlage(R)	6	A1145F-SC10	**3EMT3**	10
Schlage(R)	5	1145-SC1	**1GAJ7**	10
Schlage(R)	5	SC1-BR	**1GAU9** *	50
Schlage(R)	5	SC1-NP	**1GAV1**	50
Schlage(R)	6	1145A-SC4	**1GAK2**	10
Schlage(R)	6	A1145E-SC9	**1GAR3**	10
Schlage(R)	5	1145E-SC8	**2GVJ5**	10
Schlage(R)	5	100-C-NS	**2GVK3**	50
Schlage(R)	6	A1145E-HANS-ILCO	**2GVK7**	100
Segal(R)	—	1022-SE1	**2GVJ8**	10
Weiser(R)	5	1054WB-WR3	**1GAT8**	10
Weiser(R)	5	N1054WB-WR5	**1GAP9**	10
XL Lock(R)	5	1180S-XL7	**1GAU5**	10
Yale(R)	6	998-Y4	**3EMT5**	10
Yale(R)	5	999-Y1	**1GAP1**	10
Yale(R)	6	999A-Y2	**1GAR1**	10
Yale(R)	6	998GA-Y78	**1GAR2**	10
Yale(R)	4	997X-Y6	**1GAT5**	10
Yale(R)	5	01122-Y11	**1GAK1**	10
Yale(R)	5	01122R-Y13	**1GAN6**	10

** Brass finish.*

BEST

Standard-Type Key Blanks

The authentic standard BEST key blank is used for the key-cutting of operating, control, master, sub-master, and grand-master keys for any SFIC 5-, 6-, or 7-pin master keying system. Nickel silver. Comes in pkg. qty. of 1.

Keyway Type	Mfr. Model	Item No.
A	1A1A1KS473KS800	**49H790**
E	1A1E1KS473KS800	**49H794**
F	1A1F1KS473KS800	**49H796**
G	1A1G1KS473KS800	**49H798**
H	1A1H1KS473KS800	**49H801**
J	1A1J1KS473KS800	**49H803**
K	1A1K1KS473KS800	**49H805**
L	1A1L1KS473KS800	**49H807**
TE	1A1TE1KS473KS800	**49H814**

49H790

Flash 008
52HN54

Manual Key Duplicator
52HN53

Key blanks available; see page 1964.

Semi-Automatic Key Duplicator
52HN52

Bravo III
1GBB2

Ilco

Key Duplicators and Code Cutting Machines

- Key Duplicators create new keys by copying existing keys
- Code Cutting Machines create new keys from coded cards when existing keys are not available for duplication
- Key blanks available; see page 1964.

52HN54 Flash 008 Manual Key Duplicator

- Tool steel cutter

Lightweight, space-saving, and economical. Use where occasional duplication is needed.

52HN53 Manual Key Duplicator

- Titanium-nitride-coated cutter

Designed for cutting popular automotive and commercial cylinder keys, including double-sided types. Wide spacing between vise jaws accommodates longer keys. Depth limit device guards against cutter contact with vise jaws. Ideal for counter or mobile use. Circuit breaker protected.

52HN52 Semi-Automatic Key Duplicator

- Titanium-coated milling cutter

For most residential, padlock, automotive, and double-sided key duplication. Particularly useful when multiple duplicates are needed. Semiautomatic design allows for speed and accuracy. Hardened carriage shaft and cutter spindle provide extended service life. ¼-HP motor allows mobile use. Circuit breaker protected.

1GBB2 Bravo III with EZ Jaw Key Duplicator

- Cobalt steel cutter

Accurately and easily duplicates keys in less than 9 sec., once loaded; ideal for rugged, high-volume environments. Semiautomatic operation provides the necessary pressure; operator simply provides guidance.

52HN51 Automatic/Manual Key Duplicator

- Tool steel cutter

A versatile automatic machine that can be used manually when needed, giving operator freedom to select the best key action. Accommodates large bow and long blade keys. Features titanium-coated cutter with permanently lubricated spindle shaft ball bearings. 4-position vise jaws provide secure clamping. Dial-type depth adjustment system simplifies calibration and improves accuracy.

Description	Machine Dim. (in.) H	W	D	HP	Amps AC	Bearing Material	Mfr. Model	Item No.
Key Duplicators								
Mini-Mite Manual	8 45⁄64 in	12 13⁄64 in	9 ½ in	1⁄32 hp	1.2 A	Sealed	FLASH 008	**52HN54**
Manual	9 51⁄64 in	15 ¾ in	18 7⁄64 in	23⁄64 hp	2.8 A	Sealed	SPEED045	**52HN53**
Semi-Automatic	9 51⁄64 in	22 51⁄64 in	18 7⁄64 in	23⁄64 hp	2.8 A	Sealed	SPEED 044	**52HN52**
Bravo III with EZ Jaw	9 ½ in	18 in	15 in	¼ hp	1.5 A	Sealed	Bravo III	**1GBB2**
Automatic/Manual	11 51⁄64 in	19 19⁄64 in	18 7⁄64 in	23⁄64 hp	2.8 A	Sealed	SPEED 040	**52HN51**
Replacement Key Machine Cutters for Ilco Key Machines								
Mfr. No. 008A	—	—	—	—	—	—	23RF	**2GVH1**
044HD, Mfr. No. 040HD	—	—	—	—	—	—	P-CU20	**5DJP6**
Mfr. No. 045-110	—	—	—	—	—	—	P-X23MC	**1GBB7**
Mfr. No. 044-110 and 040	—	—	—	—	—	—	CU20	**1GBB6**
For Key Machine 1GBB2	—	—	—	—	—	—	CU50A	**1GBB5**
For Key Machine 2GVH9	—	—	—	—	—	—	T14MC	**2GVL1**
Replacement Deburring Brushes for Ilco Key Machines								
For Key Machine No. Mfr. No. Bravo III	—	—	—	—	—	—	D925102ZR	**1GBB8**
For Key Machine Nos. Mfr. No. 044-110 & 045-110	—	—	—	—	—	—	814-00-51	**1GBB9**

KEY-BAK

Retractable Key Reels, Tethers, and ID Badge Holders

Type	Features	Includes	Extended Length	Fits Belts Up To	Color	Brand	Item No.
ID Card Retractor							
Standard Clip	—	ID Card Swivel Clip	28 19/64 in	¾ in	Black	—	25DU57
Standard	Vinyl Strap	—	28 19/64 in	¾ in	Black	—	25DU48
Swivel Clip	Vinyl Strap	ID Card Swivel Clip	28 19/64 in	¾ in	Black	—	25DU56
MiniBak	—	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	6YLN6
MiniBak	—	ID Card Standard Clip	36 in	1 ½ in	Blue	Key-Bak	6YLN8
MiniBak	Twist Free	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	6YLN0
MiniBak	Vinyl Strap	ID Card Standard Clip	36 in	1 ½ in	White	Key-Bak	6YLL6
MiniBak	Vinyl Strap	ID Card Swivel Clip	36 in	1 ½ in	White	Key-Bak	6YLL8
Key Reel							
Standard	Theft Protection	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	6YLK3
Standard	Theft Protection	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	6YLK4
Locking	—	Key Silencing Hook and Loop Flap	—	2 ¼ in	Black	Key-Bak	6YLK6
Stainless Steel Chain	Theft Protection	Key Silencing Hook and Loop Flap	24 in	2 ¼ in	Black	Key-Bak	6YLJ7
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	—	25DU51
Self-Retracting	—	HUS-KEY Security Tab, Leather Pouch	24 in	2 ½ in	Chrome	Key-Bak	12X544
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	Key-Bak	1PGR6
Stainless Steel Chain	—	—	24 in	1 ¾ in	Chrome	Key-Bak	1PGP6
Kevlar(R) Cord	Leather Protector-Theft Protection	Key Silencing Hook and Loop Flap	36 in	2 ¼ in	Black	Key-Bak	6YLK0
Kevlar(R) Cord	Nylon Protector- Theft Protection	Key Silencing Hook and Loop Flap	36 in	2 ¼ in	Black	Key-Bak	6YLK2
Kevlar(R) Cord	—	Leather Belt Loop	36 in	2 ¼ in	Black	Key-Bak	6YLL5
Super 48 Super Duty Kevlar(R) Cord	—	Leather Belt Loop	36 in	2 ¼ in	Black	Key-Bak	6YLL1
Kevlar(R) Cord	Tab to Prevent Uniform Damage	Uniform Protection Flap	36 in	2 ¼ in	Black	Key-Bak	6YLL3
Nylon Cable	360 Degree Rotating Clip	—	36 in	2 in	Black	Key-Bak	6YLN9
—	360 Degree Rotating Clip, Vinyl Strap	—	36 in	2 in	Black	Key-Bak	6YLP0
Polyester Cord	Polyester Cord	—	36 in	—	Black	Key-Bak	6YLP1
Polyester Cord	Polyester Cord, Vinyle Strap	—	36 in	—	Black	Key-Bak	6YLP2
Kevlar(R) Cord	Leather Protector-Theft Protection	Key Silencing Hook and Loop Flap	48 in	2 ¼ in	Black	Key-Bak	6YLJ9
Kevlar(R) Cord	Nylon Protector- Theft Protection	Key Silencing Hook and Loop Flap	48 in	2 ¼ in	Black	Key-Bak	6YLK1
Kevlar(R) Cord	—	Leather Belt Loop	48 in	2 ¼ in	Black	Key-Bak	6YLL4
Super 48 Kevlar(R) Cord	—	Leather Belt Loop	48 in	2 ¼ in	Black	Key-Bak	6YLL0
Kevlar(R) Cord	Tab to Prevent Uniform Damage	Uniform Protection Flap	48 in	2 ¼ in	Black	Key-Bak	6YLL2
Kevlar(R) Cord	Belt Loop Meets Anti-Snatch Requirements	—	48 in	2 in	Chrome	Key-Bak	1TCX4
Kevlar(R) Cord	Ball Socket	—	48 in	2 ¼ in	Black	Key-Bak	1TCX2
Sheathed Steel Cable	48 in Stainless Steel Cable	—	48 in	—	Chrome	—	25DU47
Kevlar(R) Cord	—	—	48 in	2 in	Silver	Key-Bak	1TCX3
Kevlar(R) Cord	Locking Ball and Socket	—	48 in	2 in	Black	Key-Bak	1PGP7
Kevlar(R) Cord	—	—	48 in	—	Black	Key-Bak	1PGP9
Key Reel Chain							
Replacement Key Reel Chain	—	—	1,200 in	—	Stainless	Key-Bak	1TCX9
Retractable Tether							
Stainless Steel Chain	—	—	24 in	—	Chrome	Key-Bak	1PGR5
Stainless Steel Chain	48 in Stainless Steel Cable	—	48 in	—	Chrome	Key-Bak	1PGP8

Rock

Magnetic

Sprinkler

Lucky Line

Key Hiders

Keep an extra key handy in case of lockout or emergency. Rock and sprinkler key hiders can be used on the ground; magnetic hider adheres to most metal surfaces.

Description	Brand	Item No.
Key Rock Hider	Lucky Line Products	3EGN4
Magnetic Key Hider	—	25PA16
Sprinkler Key Hider	Lucky Line Products	3EGN7

3HJU7

3HJU6

3HJP7

3HJT5

Lucky Line

Message-Protecting Key Rings

Key ring identification tags help protect messages from moisture and smudging.

Description	Color	Item No.	Pkg. Qty.
Open/Close Flap			
Key Tag	Assorted	3HJU7	10
Key Tag	Clear	3HJU8	10
Holder w/8 Key Tags	Assorted	3HJU6	1
Clear Plastic Insert			
Swivel Ring Key Tag	Black	3HJP7	50
Swivel Ring Key Tag	Blue	3HJP8	50
Water-Resistant			
Key Tag	White	3HJT5	25

Shamrock

Oval

Square-Slotted Blank

Key Receipt Slip

Restroom

Key Tags

Help to identify and organize keys. Shamrock tags are 1¼"H x 1¼"W. Oval tags are 1⅜"H x 1⅛"W. Both Shamrock and Oval tags fit 2-tag key cabinets. Square-Slotted tags are 1⅝"H x 1½"W and fit 2-tag key cabinets with slots.

	SHAMROCK		OVAL		SQUARE-SLOTTED	
Description	Color	Item No.	Color	Item No.	Color	Item No.
Numbered Key Tags						
1 to 40	White	33J882	Red	33J886	White	33J890
1 to 100	White	33J879	Red	33J883	White	33J887
101 to 200	White	33J880	Red	33J884	White	33J888
201 to 300	White	33J881	Red	33J885	White	33J889

Description	Color	Item No.	Pkg. Qty.
Blank Key Tags			
Shamrock, Reusable	White	33J873	100
Square-Slotted	White	2NEU1	50
Square-Slotted	Assorted	33J891	20
Key Receipt Slip	Yellow	33J871	100
Square-Slotted	White	33J870	50

Description	Color	Item No.	Pkg. Qty.
Restroom Key Tags			
Women	Blue	33J893	1
Men	Blue	33J894	1
Unisex	Blue	33J895	1

2NEU4

2NEU2

2XLC6

2XLC3

4HY63

Key Drop and Key Lock Boxes

Description	Cap.	Color	H	D	W	Mfr. Model	Item No.
Key Drop Boxes							
Keyed Alike	—	Gray	7 ¼ in	3 ⅜ in	4 ⅛ in	2NEU4	**2NEU4**
Keyed Different	—	Gray	7 ¼ in	3 ⅜ in	4 ⅜ in	2NEU5	**2NEU5**
Key Box							
Cam Lock - 40 Keys	—	—	12 1/64 in	2 ¾ in	8 3/16 in	33J869	**33J869**
Lock Box							
Surface Key Box	20 Keys	Gray	4 23/32 in	2 9/16 in	2 61/64 in	33J855	**33J855**
Emergency Lock Box							
Emergency Lock Box	—	Red	6 ½ in	2 ¼ in	6 ¾ in	2NEU2	**2NEU2**
Kidde Lock Boxes							
Push Button	5 Keys & Access Cards	Black	5 ¼ in	3 in	3 ⅞ in	1267	**2XLC6**
Push Button	2 Keys	Titanium	4 in	1 ¾ in	2 ⅜ in	1170	**2XLC5**
Push Button	2 Keys	Clay	4 in	1 ¾ in	2 ⅜ in	1414	**2XLC4**
Push Button	2 Keys	Silver	4 ½ in	2 ¼ in	2 ½ in	1324	**5KDJ6**
Push Button	5 Keys	Silver	4 ½ in	2 ¼ in	2 ½ in	1015	**5KDJ3**
Push Button	5 Keys	Clay	4 ½ in	2 ¼ in	2 ½ in	1409	**5KDJ4**
Push Button	3 Keys	Titanium	5 ⅞ in	1 ⅞ in	2 ⅜ in	1166	**2XLC2**
Push Button	3 Keys	Clay	5 ⅞ in	1 ⅞ in	2 ⅜ in	1350	**2XLC1**
Combination	3 Keys	Titanium	5 ⅞ in	1 ⅞ in	2 ⅜ in	1012	**2XLC3**
Master Lock Lock Boxes							
Combination	5 Keys	Gray	4 ½ in	1 ⅜ in	3 7/16 in	5401D	**4HY63**
Combination, Wall Mount	7 Keys	Silver/Black	4 ⅝ in	2 1/16 in	3 ⅛ in	5423D	**31MG95**
Combination, Padlock	7 Keys	Silver/Black	4 ⅝ in	2 1/16 in	3 ⅛ in	5422D	**31MG94**
Master Lock Over-The-Door Portable Lock Box							
Combination	5 Keys	Gray	6 5/16 in	1 ½ in	3 5/16 in	5400D	**4HY62**
ABUS Key Boxes							
Resettable Dial	20 Keys or 8 Cards	Silver/Black	7 1/6 in	1 ¾ in	3 ⅜ in	797	**6TRV8**
Resettable Dial	20 Keys or 8 Cards	Silver/Black	4 ¾ in	1 ¾ in	3 ⅛ in	787	**6TRV7**
Push Button	20 Keys or 8 Cards	Silver/Black	4 ¾ in	1 ¾ in	3 ⅛ in	777	**6TRV6**
Sentry Safe Key Box							
Privacy Key Lock	25 Keys	Black	9 13/16 in	3 5/16 in	7 7/16 in	KB-25	**29RV64**

2-Tag Key Cabinets

Cabinets are made of heavy-duty steel with baked-on powder-coated finish for durability. Each cabinet includes different numbered key tags and lock location charts. Hook-style key tags are numbered consecutively. Each hook holds 1 control key with a red permanent tag and 1 duplicate loaner key with a white reusable tag. In case loaner key is lost, the control key remains in cabinet. An "out key" tag is hung in the same position as the loaned key. Date, key number, and recipient can be recorded on receipt sheet.

Key Cap. (Units)	Overall H (in.)	Overall D (in.)	Overall W (in.)	Item No.
30	12	2½	8	**33J856**
60	17	3 5/32	13 63/64	**33J857**
80	20	5	16½	**33J858**
120	20	5	16½	**33J859**
240	20	5	16½	**33J860**
500	25¼	5½	18	**33J861**

Key Cabinet

Wall-mount cabinet features touchscreen interface with PIN access; designates keys or keyset which are individually locked in place. Keys are securely attached using special security seals. User has access to key and rights administration. Provides screen based audit trail and reporting capabilities or export via USB port. Features audible alarms and has multilingual functionality. In case of emergency, system can be manual overridden and has door release functions.

Key Cap. (Units)	H	D	W	Item No.
21	16 ⅞ in	3 ⅝ in	9 11/16 in	**45DK66**

Cabinet with Cam Lock
2NET1

2NET3

5KDJ9

Binder
3HJU5

Hanging File
3HJU9

Key Cabinets, Binder, and Hanging Files

CABINETS

Help keep track of loaned keys. Come with consecutively numbered, slotted-style, reusable key tags. 5KDJ7, 5KDJ8, and 5KDJ9 are hook style. Record loaner information (key number, date, and recipient) on the "out key" tags and hang them in the loaned keys area. Wall mount.

BINDER

Vinyl construction with metal-reinforced corners and a zipper to keep binder closed and contents secure. Binder comes with 3 base units, 42 snaps, 42 plastic key tags, and labels to organize up to 42 keys. Snap-in tabs allow keys to be removed and inserted easily.

HANGING FILES

Fit in a standard, letter-size filing cabinet.

Key Cap. (Units)	H	D	W	Brand	Item No.
2-Key Cabinet with Cam Lock					
30	12 in	2 ½ in	8 in	—	**2NET1**
48	7 ¼ in	1 ⅝ in	28 ¾ in	—	**2NET2**
50	28 ¾ in	1 ⅝ in	7 ¼ in	—	**2NET3**
62	17 in	3 5/32 in	13 63/64 in	—	**2NET4**
120	17 in	3 ¼ in	14 in	—	**2NET5**
240	20 in	5 in	16 ½ in	—	**2NET6**
330	20 in	5 in	16 ½ in	—	**2NET7**
500	25 ¼ in	5 ½ in	18 in	—	**2NET8**
730	25 ¼ in	7 in	18 in	—	**2NET9**
2-Key Cabinet with Electronic Digital Lock and Cam Lock					
64	14 21/64 in	5 5/16 in	13 35/64 in	—	**36D051**
1-Key Cabinet with Pushbutton Combination Lock					
30	11 ¾ in	2 ⅜ in	7 ⅞ in	Kidde	**5KDJ7**
60	19 ½ in	4 in	13 ⅜ in	Kidde	**5KDJ8**
120	19 ¼ in	4 in	13 ⅜ in	Kidde	**5KDJ9**
Key Cabinet with Digital Lock					
200	21 27/32 in	7 3/64 in	16 59/64 in	—	**36D049**
Binder					
42	11 ½ in	2 ½ in	13 ¾ in	Lucky Line Products	**3HJU5**
Hanging File					
14	6 in	⅜ in	12 ¾ in	Lucky Line Products	**3HJU9**

Depository Safe (Contents not included.) 3EKY9

Floor Safe (Contents not included.) 6MPK4

Gun Safe (Contents not included.) 29RV57

Hotel Safe 53KA37

Portable Safe 20VK10

Wall Safe 20VK08

Safes

Lock Style	Cap.	No. of Shelves	Fire Rating	Net Wt.	Outside Dim. H	Outside Dim. W	Outside Dim. D	Color	Brand	Item No.
Depository Safes										
(2) Deadbolt Lock, Digital Keypad	0.59 cu ft	1	Not Rated	22.5 lb	13 45/64 in	9 55/64 in	9 55/64 in	Black	Barska	**20VK20**
	0.84 cu ft	0	Not Rated	41.75 lb	16 in	13 ¾ in	13 ¾ in	Black		**20VK14**
(3) Locking Bolts	1.03 cu ft	1	Not Rated	79.6 lb	14 in	14 in	20 in	Black		**45WP97**
	1.72 cu ft	1	Not Rated	94.25 lb	14 in	14 in	27 in	Black		**45WP98**
Digital Keypad with Key Backup	2.3 cu ft	1	—	51 lb	19 in	15 21/32 in	15 13/32 in	Black		**20VK04**
Dual Keyed	0.25 cu ft	0	Not Rated	20 lb	8 ½ in	6 in	12 3/10 in	Gray	Sentry Safe	**3EKY7**
	0.39 cu ft	0	Not Rated	29 lb	12 in	8 in	10 3/10 in	Gray		**3EKY8**
Electronic	1.3 cu ft	0	Not Rated	122 lb	27 ¼ in	14 in	14 in	Two Tone Black Gray	Mesa Safe Company	**16X160**
	3.6 cu ft	0	Not Rated	191 lb	30 in	20 in	20 in	Two Tone Black Gray		**16X162**
	6.7 cu ft	2 Adjustable	Not Rated	256 lb	27 ¼ in	30 ¾ in	21 in	Two Tone Black Gray		**16X161**
Key Lock	1 cu ft	1	Not Rated	86 lb	27 ¼ in	14 in	14 in	Black/Gray		**33UJ42**
Programmable Electronic w/Time Delay	0.94 cu ft	0	Not Rated	95 lb	20 in	14 in	15 ⅗ in	Black	Sentry Safe	**3EKY9**
	1.09 cu ft	0	Not Rated	108 lb	24 in	14 in	15 ⅗ in	Black		**3EKZ1**
	1.57 cu ft	1	Not Rated	121 lb	27 in	14 in	15 ⅗ in	Black		**3EKZ2**
Floor and Wall Safes										
3 Point Deadlock	16.07 cu ft	2	40 min.	279 lb	59 in	18 in	—	Black	Barska	**45CP32**
Biometric	1.23 cu ft	2 Adjustable	Not Rated	48.5 lb	19 ¾ in	14 in	13 in	Black		**20VK06**
Combination	1.23 cu ft	1	1 hr	90 lb	17 ⅘ in	16 ⅓ in	19 ⅓ in	Black	Sentry Safe	**29RV55**
Combination, Dual Key	2.05 cu ft	2 Adjustable	1 hr.	125 lb	23 ⅘ in	18 ⅗ in	19 ⅓ in	Gray		**32RT41**
	3 cu ft	2 Adjustable	1 hr.	335 lb	34 ½ in	20 ½ in	22 in	Gray		**3KB52**
	4.6 cu ft	2 Adjustable	1 hr.	509 lb	39 13/16 in	25 ⅖ in	23 ⅖ in	Gray		**3KB53**
Digital, Dual Key	3 cu ft	2 Adjustable	1 hr.	335 lb	34 ½ in	20 ½ in	22 in	Gray		**2TJ14**
	4.6 cu ft	2 Adjustable	1 hr.	509 lb	40 in	25 ½ in	23 ½ in	Gray		**2TJ15**
Dual Key, Electronic	2.05 cu ft	1	1 hr.	125 lb	23 ⅘ in	18 ⅗ in	19 ⅓ in	Black/Gray		**32RT42**
Electronic, Override Key	2.3 cu ft	2 Adjustable	Not Rated	105 lb	23 9/10 in	15 ½ in	16 ⅛ in	Black		**6MPK2**
	3.4 cu ft	2 Adjustable	½ hr.	163 lb	27 51/64 in	21 45/64 in	19 in	Black		**6MPK6**
	4.3 cu ft	2 Adjustable	Not Rated	195 lb	27 7/10 in	21 ¾ in	19 ¾ in	Black		**6MPK3**
	6.1 cu ft	3 Adjustable	Not Rated	220 lb	37 ¾ in	21 ¾ in	19 ¾ in	Black		**6MPK4**
Gun Safes										
Biometric	1.72 cu ft	1	Not Rated	66 lb	52 ⅛ in	9 ⅞ in	8 ¾ in	Black	Barska	**39H968**
Biometric, Key	5.5 cu ft	1	Not Rated	106 lb	57 in	13 ¾ in	13 ¾ in	Black		**20VK03**
Combination Dial	20 cu ft	4	½ hr	495 lb	59 in	36 in	24 in	Black	Mesa Safe Company	**40CJ41**
	22.9 cu ft	1	1 hr	860 lb	71 in	36 in	24 in	Textured Black		**39J415**
Electronic	0.08 cu ft	—	Not Rated	12 lb	3 3/16 in	12 in	9 15/16 in	Black	Sentry Safe	**29RV57**
	7.5 cu ft	4	½ hr	264 lb	55 in	20 in	20 in	Black	Mesa Safe Company	**40CJ32**
	7.6 cu ft	1	1 hr	551 lb	59 in	22 in	20 in	Textured Black		**16X167**
	7.9 cu ft	4	1 hr	551 lb	59 in	22 in	20 in	Black		**33UJ48**
	14.4 cu ft	1	1 hr	665 lb	59 in	32 in	22 in	Black		**33UJ50**
	14.4 cu ft	4	1 hr	860 lb	59 in	32 in	22 in	Textured Black		**16X169**
	20 cu ft	4	½ hr	495 lb	59 in	36 in	24 in	Black		**40CJ40**
	22.9 cu ft	6	1 hr	865 lb	71 in	36 in	24 in	Textured Black		**16X170**
Key	0.1 cu ft	0	Not Rated	6.5 lb	3 ¼ in	11 ⅞ in	10 in	Black	Sentry Safe	**45CJ88**
Hotel Safes										
Electronic	0.66 cu ft	0	Not Rated	35.2 lb	18 in	14 ¼ in	6 ½ in	White	Global Safe	**53KA37**
	0.66 cu ft	0	Not Rated	35.2 lb	18 in	14 ¼ in	6 ½ in	White		**53KA38**
	1.01 cu ft	0	Not Rated	30.8 lb	9 in	17 in	14 in	Black		**53KA35**
	1.19 cu ft	0	Not Rated	35.2 lb	7 ½ in	19 ½ in	15 ¾ in	Black		**53KA36**
Electronic, Card Swipe	1.1 cu ft	0	0	31 lb	9 in	18 in	16 in	Black	Sentry Safe	**45DP81**
Portable Safes										
Digital Keypad	0.54 cu ft	0	1 hr	66 lb	11 89/100 in	17 11/20 in	14 41/50 in	Black	Barska	**20VK10**
Digital Keypad, Locking Latch	0.5 cu ft	1	Not Rated	16.5 lb	5 in	17 ½ in	12 ½ in	Black		**20VK22**
Digital Lock	0.4 cu ft	0	Not Rated	12 lb	7 ½ in	11 ½ in	10 ½ in	Black	Sentry Safe	**23Y706**
Electronic, Override Key	1 cu ft	1	Not Rated	24 lb	8 ⅞ in	16 15/16 in	14 9/16 in	Black		**2GTN8**
Wall Safes										
Biometric with Key Backup	0.52 cu ft	2 Removable	—	29 lb	20 ¾ in	15 13/32 in	3 ¾ in	Black	Barska	**20VK08**
Electronic Lock	0.3-0.7 cu ft	2 Fixed	—	40 lb	22 ⅛ in	15 in	6 in	Off White	Mesa Safe Company	**16X140**

Commercial Gate Operators

LiftMaster

- 115V, single-phase
- ½-HP motor
- Continuous time interval

Includes a built-in LiftMaster 312HM radio receiver for use with DIP Switch and Security+ remote controls. Rated for 100 cycles per hr. Commercial Gate Operators are compatible with Garage Door Openers 46X657 and 6UR95, available on Grainger.com.

Slide Operator—Unit has alarm reset button, surge/lightning protection, weatherproof polyethylene cover, high-speed precision limit switches, and a gold zinc-plated chassis to help reduce corrosion. For use with slide gates, not included.

Swing Operator—Has "nonscissor action" function to help reduce injury. Feature an alarm reset button, surge/lightning protection, weatherproof polyethylene cover, high-speed precision limit switches, and a gold zinc-plated chassis to help reduce corrosion. For use with swing gates, not included.

Barrier Operator—DC-powered unit is for right- or left-handed operation. Features built-in battery backup, control inputs, inherent obstruction sensing, LED indicators, and an aluminum alloy chassis that resists corrosion. Gate Arm sold separately, go to Grainger.com and search for Gate Arms.

Accessories—Photo Eyes Safety Device 5MKL9 stops and reverses the gate when an object is detected in its path.

45TR71

45TR69

Description	Max. Cap.	H	W	D	Motor	Voltage	Mfr. Model	Item No.
Commercial Gate Operators								
Slide	1000 lb	26 ½ in	18 7/64 in	21 39/64 in	½ HP	110V AC	SL3000501UL	**45TR71**
Slide	2000 lb	26 ½ in	18 7/64 in	21 39/64 in	1 HP	110V AC	SL3000101UL	**45TR72**
Swing	1600 lb	27 43/64 in	14 13/16 in	18 25/32 in	DC	120V DC	CSW24UL	**45TR69**
Swing	1600 lb	28 in	15 in	20 13/64 in	½ HP	110V AC	CSW200501UL	**45TR73**
Swing	2000 lb	28 in	16 13/32 in	24 ½ in	1 HP	110V AC	CSW200101UL	**45TR74**
Barrier	15 ft x 3 in Arm	28 in	15 in	20 ½ in	½ HP	110V/220V Single Phase	MATDCBB3	**5MKK9**

Description	For Use With	Mfr. Model	Item No.
Counterweight			
Counterweight	Mfr. No. MA116R	MA117	**5MKL7**
Gate Operator Accessories			
Plug-In Loop Detector	CSW200UL3, Mfr. No. SL3000UL3	AELD	**5MKL2**
Plug-In Loop Detector	Gate Operator	LD7LP	**5MKN0**
Mounting Plate	5MKK7 and 5MKK8 Gate Operators	MPEL	**5MKL3**
Photo Eyes Safety Device	CSW200UL3, MATDCBB3, Mfr. No. SL3000UL3	AOMRON	**5MKL9**
Heater	5MKK7 Gate Operator	G6518SL	**5MKL0**
Heater	5MKK9 Gate Operator	UN201	**5MKL8**
Linear Actuator Package	375UT, 811LM, 813LM, 828LM, 892LT, 894LT, EL1SS, G50ENL1218, G50ENL1818, G50XNL1218, G50XNL1818, KPW250, KPW5, Mfr. No. LOOPDETLM, STAR1000	LA500PKGU	**45TR81**
Entry Transmitter - Wireless	CSL24U, CSW200101U, CSW200501U, LA500PKGU, Mfr. No. CSW24U, SL3000101U, SL3000501U	LMWEKITU	**45TR77**
Heater - Safety Device	CSW200101U, CSW200501U, Mfr. No. SL3000501U, SL3000101U	HTRNB	**45TR80**

D0046

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Mail Chest and Pedestals

Mail is deposited through a nonlocking access panel on the front. Has an outgoing mail tray and an adjustable red signal flag. Aluminum construction with a powder-coated finish. Can be mounted on a pedestal (not included). Front and rear access doors include a lock and 2 keys (keyed alike).

Description	▶CHOOSE: Color	Orientation	H	D	W	Net Weight	Item No.
Bolt Mounting							
Pedestal	Black, Silver	—	32 in	3 ½ in	3 ½ in	15 lb	**D0047**
In Ground Mounting							
Pedestal	Black, Silver	—	48 in	3 ½ in	3 ½ in	20 lb	**D0578**
Pedestal Mounting							
Mail Chest	Black, Silver	—	17 ¼ in	23 in	14 ⅜ in	30 lb	**D0046**
Locks and Reg Flag	Black	Square	13 ⅝ in	18 ¼ in	12 ½ in	25 lb	**33KT11**
(12) Tenant Doors, Parcel Locker, Pedestal	Gray	Vertical	62 ¾ in	18 in	30 ½ in	155 lb	**52VF47**
Heavy Duty Mailbox	Black	—	9 ½ in	20 ½ in	7 ½ in	15 lb	**D0051**
Recessed Mounting							
2 Parcel Lockers, 20 Mailbox Doors	Aluminum	—	56 ¾ in	17 in	31 ⅛ in	170 lb	**3YNP4**
Locks and Reg Flag	Black	Square	36 in	23 in	14 ⅜ in	50 lb	**33KX16**
(2) keys, (5) Pin Cylinder Cam Lock	Bronze	Horizontal	40 ¾ in	16 ½ in	35 ¾ in	100 lb	**48UJ34**
Standard Mailbox	Aluminum	—	40 ¾ in	16 ½ in	35 ¾ in	85 lb	**D0036**
Surface Mounting							
Newspaper Holder	Black	Vertical	14 ½ in	3 ½ in	11 in	10 lb	**33KP21**

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Courier Box

For depositing and collecting mail, documents, small packages, and other items. Front loading. Made of 14-ga. steel. Features a 3-point locking mechanism and 2 keys.

▶CHOOSE: Color	Mounting	H	D	W	Item No.
Gray, White, Blue	Free Standing	49 in	26 in	20 in	**D0045**
Primer	Free Standing	49 in	26 in	20 in	**48UJ68**

SALSBURY INDUSTRIES
People Committed to Quality Since 1936

Front Loading Mailbox

30 door mailbox features solid brass, die cast compartment doors and name plate to identify tenant's name and box number. Each door includes a 5-pin cylinder cam lock with 2 keys. Front door panel swings open on a continuous hinge. Doors have powder-coated gold finish. Comes with 2 commercial locks and 2 keys.

Mounting	H	D	W	Item No.
Recessed	26 ½ in	16 in	23 ½ in	**33LK15**

ID Printer
38EV73

ID Printer
20W460

Complete Access ID Kit
54JD92

ID Badge and Card Printers

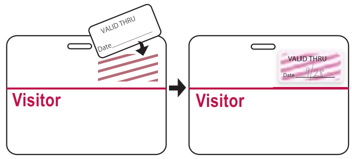
Create plastic IDs, badges, and loyalty and gift cards.

Description	Type	Print Speed	Print Mode	Connection	Card Loading Mode	Color	Brand	Item No.
Single-Sided Printers								
ID Card Printer with Magnetic Encoder	Zenius	150 Cards/Hr	Dye Sublimation	USB and Ethernet	—	Red	Evolis	**20W462**
ID Card Printers	Fargo DTC1250e	24 Sec Per Card	Color	USB	100 Card Hopper	Black/Gray	Sicurix	**54JE01**
	Badgy 100	45 Sec Per Card	Color	USB	25 Card Capacity	Red	Badgy	**38EV73**
	Badgy 200	38 Sec Per Card	Color	USB	25 Card Capacity	Red	Badgy	**38EV74**
	Pronto	40 Sec Per Card	Color	USB	Manual Feed	White	Sicurix	**54JD97**
	Zenius Expert Economy	150 Cards/Hr	Dye Sublimation	USB and Ethernet	—	Red	Evolis	**20W460**
	Zenius	150 Cards/Hr	Color	USB and Ethernet	50 Card Hopper	Red/White	Sicurix	**54JD96**
	DataCard SD260	150 Cards/Hr	Color	USB and Ethernet	100 Card Hopper	Blue	Sicurix	**54JD99**
	Zebra ZXP Series 8 Retransfer	190 Cards/Hr	Dye Sublimation	USB and Ethernet	—	Black	Zebra	**20W468**
	Primacy	190 Cards/Hr	Dye Sublimation	USB and Ethernet	100 Card Hopper	Red	Evolis	**36J111**
	Entrust Sigma DS2	225 Cards/Hr	Dye Sublimation	USB and Ethernet	175 Card Input	Gray/Purple	Entrust	**787UC0**
	Solid 310	—	—	USB	—	Black	Sicurix	**55PK23**
	Zebra ZXP Series 3	—	—	USB and Ethernet	—	Black/Silver	Sicurix	**55PK24**
Complete Access ID Kits	Pronto	40 Sec Per Card	Color	USB	Manual Feed	Gray/White	Sicurix	**54JD94**
	Enduro	90 Cards/Hr	Color	USB	100 Card Hopper	White	Sicurix	**54JD92**
	Enduro	90 Cards/Hr	Color	USB	100 Card Hopper	White	Sicurix	**54JD93**
Accountability Kit	Salamander Full ID	—	Dye Sublimation	USB and Ethernet	—		Evolis	**20W456**
Dual-Sided Printers								
ID Card Printers	Fargo DTC1250e	24 Sec Per Card	Color	USB	100 Card Hopper	Black/Gray	Sicurix	**54JE02**
	Primacy	191 Cards/Hr	Dye Sublimation	USB and Ethernet	101 Card Hopper	Red	Evolis	**36J112**
	Entrust Sigma DS2	225 Cards/Hr	Dye Sublimation	USB and Ethernet	125 Card Input	Gray/Purple	Entrust	**787UA9**
Complete Access ID Kit	Enduro	90 Cards/Hr	Color	USB	100 Card Hopper	Gray/White	Sicurix	**54JD91**
Accountability Kit	Salamander Express ID	—	Dye Sublimation	USB	—		Evolis	**20W455**

Description	Color	For Use With	Cards per Roll	Brand	Item No.	Pkg. Qty.
Accessories						
Printer Ribbon	YMCKT	Datacard SD Series	250	Entrust	**787UC1**	1
Printer Ribbon	YMCKT	Datacard SD Series	500	Entrust	**787UC2**	1
Printer Ribbon	YMCKO	Datacard SD260, SD360	250	Evolis	**20W464**	1
Printer Ribbon	YMCKO	Badgy 100/200	100	Badgy	**38EV76**	1
Printer Ribbon	YMCKOK	36J111	200	Evolis	**36J115**	1
Printer Ribbon	Hologram	36J111	400	Evolis	**36J116**	1
Blank ID Cards	White	Badges, ID Printers	100	Sicurix	**54JE04**	100
Blank ID Cards with HICO Magnetic Strip	White	Badges, ID Printers	100	Sicurix	**54JE05**	100
Blank ID Cards	White	Badgy 100/200	100	Badgy	**38EV78**	100
Blank ID Cards	White	Badgy 100/200	100	Badgy	**38EV79**	100
Prior Generation Printer Accessories						
Ribbon	Full Color YMCKO	Dualys 3, Pebble 4	200	Evolis	**3EAL1**	1
Ribbon	Full Color YMCKOK	Dualys 3	—	Evolis	**3EAR2**	1
Blank ID Cards	White	Dualys 3, Pebble 4, Tattoo 2		Evolis	**3EAR9**	100
Blank ID Cards with HICO Magnetic Strip	White	Dualys 3, Pebble 4, Tattoo 2		Evolis	**3EAT1**	100
Blank ID Cards with Adhesive Backing	White	Dualys 3, Pebble 4	—	Evolis	**3TLP7**	100

ID Printer
36J112

Accountability Kit
20W455



Clip-On Badge with Timing Date
3TLX5

Adhesive Backed
D0064

Clip-On Badge with Timing Dot
D0062

Rearview Mirror Hanging Tag
2XKE6

Self-Expiring Badges, Wristband, and Badge Holders

Description	▶CHOOSE: Legend	Color	W	Expiration Time	Includes	Item No.	Pkg. Qty.
Self-Expiring Badges and Permits, Brady Brand							
Clip-On Badge, Timing Date	Visitor	Red	1 in	1 Day	1 in dia TIMEtoken Badge	**3TLX5**	500
Adhesive-Backed Front and Back Badge	Visitor, Contractor, Temporary	Red	2 in	1 Day	SecurAlert Badges	**D0064**	500
Adhesive-Backed Front and Back Badge	Visitor, Contractor, Temporary	Red	2 in	1 Week	SecurAlert Badges	**D0065**	500
Clip-On Badge, Timing Date	Contractor	Red	3 in	1 Day	1 in dia TIMEtoken Badge	**3TLX6**	500
Parking Permit	Visitor, Temporary	Red	3 in	1 Day	Red Coded Hot Weather Expiring Disk	**D0067**	500
Parking Permit	Visitor, Temporary	Red	3 in	1 Day	Blue Coded Moderate Weather Expiring Disk	**D0067**	500
Clip-On Badge, Timing Dot	Visitor, Contractor	Red	3 in	1 Day	⅞ in dia TIMEspot Badge	**D0062**	500

Description	▶CHOOSE: Type	▶CHOOSE: Color	L	Item No.	Pkg. Qty.
Wristbands, Brady Brand					
Tyvek	Tyvek	Blue, Green, Orange, Pink, Purple, Red, Yellow	10 in	**D0077**	500
Badge Holders, Approved Vendor					
Clip-On Badge Holder	Horizontal	Clear	2 19/32 in	**2XKF2**	5
Clip-On Badge Holder	Vertical	Clear	3 ½ in	**2XKF1**	5
Snap Economy Strap Clip	Snap	Clear	3 ½ in	**2XKF5**	10
Plastic Retractable Reel with Snap Clip	Single Color	White	—	**25DU68**	10
Retractable ID Badge Holder with Belt Clip	Heavy Duty, With Steel Wire Cord	Black/Chrome Reel, Clear Strap	—	**3YUY1**	1
Flat Neck Cord Lanyard with Retractable Reel	Breakaway, Standard Reel	Black, Blue	36 in	**D0076**	1

Description	Color	W	L	Item No.	Pkg. Qty.
Rearview Mirror Hanging Tags, Approved Vendor					
Parking Permit	Blue	3 in	5 in	**2XKE6**	5
Employee Parking Permit	Red	3 in	5 in	**2XKE7**	5

ALARM LOCK

Trilogy Electronic Access Control Locks with Audit Trail, Grade 1

- Key override; standard core (included) or SFIC cylinder (not included)

Electronic door locks help eliminate the problem of lost keys and rekeying costs. Replace a standard knobset. Work in conjunction with panic bars from Von Duprin, Yale, Sargent, or Adams Rite on glass/narrow-stile doors. Use 5 AA batteries (included).

PIN/ID CARD CONTROL

Create multitiered security at 4 levels: master, manager, supervisor, or general user. Manage up to 500 automatic lock/unlock schedules (by day, date, weekend, or holiday). Operating temp.: -31° to 151°F. Field reversible.

24U104 is a programmable double-sided lock with both proximity card and keypad PIN access.

Programmable Keypad 1HUZ8 has remote-release/request-to-exit input that allows use with REX switches. Wall- or single-gang box mount.

ID CARD CONTROL ONLY

Proximity-only locks have no keypad; accept both prox cards and keyfobs for access. Tap-and-add feature makes it easy to batch-add multiple ID cards with or without PC. PC programming/reporting.

CODE ONLY

24Z459 provides multilevel security: master, manager, supervisor, and basic; can be programmed at the keypad with PC and/or data transfer module. Quick passage mode allows emergency access.

Double-Sided Proximity Lock 24U102 has direction-specific access that can be assigned, per user, for either side of the door.

1HWL3 and 1HWL4 have a privacy button on inside of door to disable all other codes for a programmable duration when temporary sessions of privacy are needed. Programmable Keypad 1HUZ6 has remote-release/request-to-exit input that allows use with REX switches. Wall- or single-gang box mount.

ACCESSORIES

Trilogy Windows Software 1HYC3 can manage users and schedules, receive audit trail from lock, program lock using PC, and program/configure Handheld Data Transfer Module 1HYB8. Can transfer program data from PC to lock and receive audit trail from lock. Wireless Infrared Printer 1HYC4 is a handheld unit that can print time- and date-stamped audit trail.

Cylindrical Standard 1HVL6

Mortise Standard 1HVL8

Keypad 1HUZ8

Cylindrical Standard 24U097

Privacy Cylindrical Standard 1HWL3

Narrow-Stile, Adams Rite® Deadlatch 1YND1

Proximity ID Fobs 1HYC1

Adhesive Proximity Tags 1HYC2

Description	Hand	Key Override Options	Max. User Codes	Event Audit Trail	Battery Life	Finish	Mfr. Model	Item No.
Programmable Lock, PIN/ID Card Control								
Cylindrical	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3000 US26D	**1HVL6**
Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	PDL3000IC US26D	**1HVL7**
Cylindrical, Entry with Key Override and Privacy	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4100 US26D	**20UL47**
Cylindrical, Double-Sided	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL5300 US26D	**24U104**
Mortise	Right	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3500CRR US26D	**1HVL8**
Mortise	Left	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL3500CRL US26D	**1HVL9**
Mortise	Right	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4500DBR US26D	**20UL49**
Mortise	Left	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PDL4500DBL US26D	**20UL50**
Von Duprin Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DV99	**1HWL2**
Yale Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DY71	**3CCK2**
Sargent Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETPDLS1G/26DS88	**3CCK4**
Narrow Stile, Adams Rite Dead Latch	Nonhanded	Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	PDL1300/26D1	**1YND3**
Keypad	—	—	2,000	40,000	—	Silver Powder Coated	PDK3000 MS	**1HUZ8**
Programmable Lock, ID Card Control Only								
Cylindrical	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	PL3000 US26D	**24U097**
Programmable Lock, Code Control, Code Only								
Cylindrical	Nonhanded	Standard SC1 Keyway	200	1000	100,000 Cycles	Satin Chrome	DL2800 US26D	**3AEA9**
Cylindrical	Nonhanded	Small Format Interchangeable Core	200	1000	100,000 Cycles	Satin Chrome	DL2800IC US26D	**3CCK5**
Cylindrical	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Satin Chrome	DL3000 US26D	**24Z457**
Cylindrical	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Satin Chrome	DL3000IC US26D	**24Z460**
Cylindrical, Weatherproof	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Satin Chrome	DL3000WP US26D	**24Z459**
Cylindrical, Weatherproof	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Satin Chrome	DL3000WPIC US26D	**24Z462**
Cylindrical	Nonhanded	Standard SC1 Keyway	300	1600	100,000 Cycles	Duronodic	DL3000 US10B	**24Z458**
Cylindrical	Nonhanded	Small Format Interchangeable Core	300	1600	100,000 Cycles	Duronodic	DL3000IC US10B	**24Z461**
Cylindrical	Nonhanded	Standard SC1 Keyway	2000	40,000	100,000 Cycles	Satin Chrome	DL3200 US26D	**5MRW9**
Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	100,000 Cycles	Satin Chrome	DL3200IC US26D	**5MRX0**
Cylindrical, Double-Sided	Nonhanded	Standard SC1 Keyway	2000	40,000	100,000 Cycles	Satin Chrome	DL5300 US26D	**24U102**
Cylindrical, Double-Sided	Nonhanded	Small Format Interchangeable Core	2000	40,000	100,000 Cycles	Satin Chrome	DL5300IC US26D	**24U103**
Mortise	Right	Standard SC1 Keyway	300	40,000	100,000 Cycles	Satin Chrome	DL3500CRR US26D	**1HWL6**
Mortise	Left	Standard SC1 Keyway	300	40,000	100,000 Cycles	Satin Chrome	DL3500CRL US26D	**1HWL8**
Privacy Mortise	Right	1⅜ in Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	DL4500DBR US26D	**24U099**
Privacy Mortise	Left	1⅜ in Mortise Cylinder	2000	40,000	60,000 Cycles	Satin Chrome	DL4500DBL US26D	**24U101**
Privacy Cylindrical	Nonhanded	Standard SC1 Keyway	2000	40,000	60,000 Cycles	Satin Chrome	DL4100 US26D	**1HWL3**
Privacy Cylindrical	Nonhanded	Small Format Interchangeable Core	2000	40,000	60,000 Cycles	Satin Chrome	DL4100IC US26D	**1HWL4**
Von Duprin Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DV99	**1HWL1**
Yale Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DY71	**3CCK1**
Sargent Exit Devices	Nonhanded	Schlage "C" Keyway (Included)	2000	40,000	60,000 Cycles	Satin Chrome	ETDLS1G/26DNS8	**3CCK3**
Narrow Stile, Adams Rite Dead Latch	Nonhanded	Adams Rite Series 4710, Adams Rite Series 4730, Adams Rite Series 4900	2000	40,000	80,000 Cycles	Satin Chrome	DL1300 US26D	**1YND1**
Keypad	—	—	2,000	40,000	—	Silver Powder Coated	DK3000 MS	**1HUZ6**
Accessories								
Trilogy Windows Software and USB Cable	—	—	—	—	—	—	AL-PCI2-U	**1HYC3**
Data Transfer Module	—	—	—	—	50 hr	—	AL-DTMIII	**1HYB8**
Infrared Handheld Printer	—	—	—	—	16 hr	Black	AL-IR1	**1HYC4**
Proximity ID Fobs, Pkg. of 10	—	—	—	—	—	Gray	ALHID1346	**1HYC1**
Adhesive Proximity Tags, Pkg. of 10	—	—	—	—	—	Black	ALHID1391	**1HYC2**
Proximity ID Cards, Pkg. of 100	—	—	—	—	—	—	ALHID1326	**1HYB9**

Cylindrical Standard 24U106

Keypad Starter Package 24U117

Keypad 24U119

Cylindrical Standard 24U108

Exit Device 24U114

Keypad Starter Package 24U116

Wireless Control Panel 24U120

ALARM LOCK

Trilogy Networx Networking Locks, Grade 1

- Key for manual override
- Weather-resistant; Operating temp.: -31° to 151°F
- Brushed chrome finish

Networked door access control systems eliminate door-to-door programming and audit trail retrieval by communicating wirelessly via 802.11B/G or Ethernet. No wires to run and no access panel or power supplies to install. Feature automatic schedules, event logs, and support for 2000 doors and 5000 existing proximity ID cards/badges.

PIN/ID CARD CONTROL

Programmable Locks 24U106 to 24U113 have built in HID proximity card reader, full-metal digital key pad, integral bidirectional radio, batteries, and serial number ID card. Starter Kit 24U117 includes NET-DKPAK and NET-PDKPAK controller and keypad. Keypad 24U119 supports 3 to 6 digit numeric PIN codes and prox ID card users (virtually all HID format proximity technology ID cards, fobs, and credentials).

CODE ONLY

Programmable Locks 24U108 to 24U111 have full-metal digital keypad for code only use. Starter Kit 24U116 includes NET-DKPAK and NET-PDKPAK controller and keypad. Keypad 24U118 supports 3 to 6 digit numeric PIN codes.

ACCESSORIES

Control Panel 24U120 includes circuit board with onboard flash memory and 12V power supply with transformer and rechargeable back-up battery. Supports 2 of any combination of NETDK or NETPDK keypads plus 2 Wiegand devices. Special 2-door mode allows 2 keypads and/or 2 Wiegand devices to separately control 2 doors. Ceiling or wall mount. 1 antenna and 6VAC transformer included.

Description	Hand	Keying	Max. User Codes	Mfr. Model	Item No.
Programmable Lock, PIN/ID Card Control					
Cylindrical	Nonhanded	Standard	5000	PDL6100 US26D	**24U106**
Cylindrical	Nonhanded	Small Format Interchangeable Core	5000	PDL6100IC US26D	**24U107**
Mortise	Right	Standard	5000	PDL6500CRR US26D	**24U112**
Mortise	Left	Standard	5000	PDL6500CRL US26D	**24U113**
Von Duprin Exit Device	Nonhanded	Standard	5000	ETPDNS1G/26DV99	**24U115**
Keypad Starter Package	—	Standard	5,000	NETPSKPAK US26D	**24U117**
Keypad Only	—	—	5,000	NETPDK US26D	**24U119**
Programmable Lock, Keypad Control, Code Only					
Cylindrical	Nonhanded	Standard	5000	DL6100 US26D	**24U108**
Cylindrical	Nonhanded	Small Format Interchangeable Core	5000	DL6100IC US26D	**24U109**
Mortise	Right	Standard	5000	DL6500CRR US26D	**24U110**
Mortise	Left	Standard	5000	DL6500CRL US26D	**24U111**
Von Duprin Exit Device	Nonhanded	Standard	5000	ETDLNS1G/26DV99	**24U114**
Keypad Starter Package	—	—	5,000	NETDKPAK US26D	**24U116**
Keypad Only	—	—	5,000	NETDK US26D	**24U118**
Accessories					
Wireless Control Panel	—	—	—	NETWORXPANEL	**24U120**
Proximity ID Fobs, Pkg. of 10	—	—	—	ALHID1346	**1HYC1**
Adhesive Proximity Tags, Pkg. of 10	—	—	—	ALHID1391	**1HYC2**
Proximity ID Cards, Pkg. of 100	—	—	—	ALHID1326	**1HYB9**

Programmable Lock, Single-Sided, Satin Chrome

Programmable Lock, Double-Sided

Narrow-Stile

ALARM LOCK

Trilogy Keyless Electronic Control Locks, Grade 1

- Key override; standard core (included) or SFIC cylinder (not included, sold on Grainger.com)
- Operating temp.: -31° to 151°F except 3ZM80, 3ZM83, and 3ZM81

Easily replace keyed locks with these electronic access control locks. Compatible with most doors that have a standard knob set. Fingertip-programmable keypad allows up to one hundred 3- to 5-digit codes. DL2700-series locks can create a 3-tiered hierarchy of custom codes: 1 master, 10 managers, 90 standard codes, and three 1-time-use codes. Low battery alert. Include 5 AA batteries (up to 150,000 cycles), except 3CCK6, which includes 2 lithium batteries (80,000 cycles). Double-sided models are for code control on both sides of the door.

Description	Finish	Weather Resistant	Key Override Options	Mfr. Model	Item No.
Programmable Lock, Code Control					
Single-Sided	Satin Chrome	No	Standard SC1 Keyway	DL2700 US26D	**3ZM80**
Single-Sided	Satin Chrome	No	Small Format Interchangeable Core	DL2700IC US26D	**3ZM83**
Single-Sided	Satin Chrome	Yes	Standard SC1 Keyway	DL2700WP US26D	**6JD79**
Single-Sided	Satin Chrome	Yes	Small Format Interchangeable Core	DL2700WPIC US26D	**6JD80**
Single-Sided	Bright Brass	No	Standard SC1 Keyway	DL2700 US3	**3ZM81**
Double-Sided	Satin Chrome	Yes	Standard SC1 Keyway	DL5200 US26D	**3CCK7**
Double-Sided	Satin Chrome	Yes	Small Format Interchangeable Core	DL5200IC US26D	**3CCK8**
Narrow Stile, Exit Devices, Programmable Lock, Code Control					
Adams Rite	Satin Chrome	Yes	Standard SC1 Keyway	DL1200/26D1	**1YND2**
Von Duprin	Satin Chrome	Yes	Standard SC1 Keyway	DL1200ET/26D	**3CCK6**

NexTouch Electronic Touch Screen Locks

- Weather-resistant; operating temp.: -40° to 140°F
- Include 4 AA batteries

Install in minutes in nearly any standard cylindrical lock prep, with ¾"-dia. hole for wiring. Use 12-button touch screen to add, eliminate, or reprogram access codes in seconds; voice-guided instructions in 3 languages. Feature a vandal-resistant freewheeling lever handle. Ideal for access control management in offices, patient records, storerooms, hotels/motels, and other applications that may require frequent rekeying. 52WN32 accepts SFIC cylinders.

52WN32

Description	Finish	Key Override Options	Mfr. Model	Item No.
Touch Screen Electronic Keyless Lock	Satin Chrome	Yale Keyway	AU-NTB620-NR-626	**52WN32**
Touch Screen Electronic Keyless Lock, Less SFIC Cylinder	Satin Chrome	Small Format Interchangeable Core	B-AU-NTB620-NR-626-LC	**52WN35**
Push Button Electronic Keyless Lock	Satin Chrome	Yale Keyway	AU-NTB610-NR-626	**52WN30**
Push Button Electronic Keyless Lock Less SFIC Cylinder	Satin Chrome	None	AU-NTB640-NR-626	**52WN33**

Electromagnetic and Keyless Access Control Locks

Use in a wide range of facilities, including large hospitals, small clinics, campus universities, single buildings, or entire office developments. Programmable keypads feature on-board controller access to simple electrified or battery-powered locking devices.

CO100 Series Offline Electronic Lock—Provide customized levels of security at each door, with a large selection of credentials and networking options. Allow addition/deletion of users, usage tracking, and data management without installing a facility-wide network. Upgrade to a network solution by replacing the network module, not the entire lock. Also provides an easy way to manage people, audits, locks, and other network panel interface devices for simple access control. Allows up to 5000 user codes and has a 6 pin full cylinder. Everest C123 Keyway with Sparta lever. Satin chrome finish. Includes (4) AA batteries.

Access Credential Reader—Provide flexible building security and security management solutions. Magnetic stripe card reader is full-swipe for maximum readability. Linked access available with keypad with card or iButton. Fully compatible with ABA Track 2 or Track 3 standards.

Keyless Access Control Locks—Illuminated keypad locks offer up to 19 individual user codes to provide secure access; program right at the keypad. Include 2 backup keys for emergency egress. Fit left- and right-handed doors from 1⅜"- to 1¾"-thick. All-metal chassis and escutcheons with wear-resistant silicone rubber buttons. Include 9V battery and low battery indicator light.

5VRD5

4GD99

36Z098

Description	Mfr. Model	Item No.
CO100 Series Offline Electronic Lock		
Office Lock, Keypad Reader	CO100CY50 KP RHO 626 PD	**5VRD5**
Access Credential Reader		
Touch Entry Key, Use with Entry Reader Device, On Key Holder	IBF	**4GD99**
Keyless Access Control Locks, Deadbolt		
Auxiliary with Key Override, Bright Brass	BE365 PLY 505	**36Z098**
Auxiliary with Key Override, Satin Chrome	BE365 PLY 626	**36Z101**
Classroom with Key Override, Satin Chrome	FE575 PLY626ELA	**28XX46**
Classroom with Key Override, Satin Chrome	FE595 PLY626ELA	**28XX47**
Classroom/ Storeroom, Satin Chrome	CO100CY70 KP RHO 626 PD	**40GN41**

Electronic Access Control Locks with Audit Trail, Grade 1

2ZU97

5BB75

- Key override; key-in lever cylinder (included) or SFIC cylinder (not included)
- Weather-resistant; operating temp.: -31° to 151°F
- Up to 300 users, 9000 audit events
- For 1¾"- to 2¼"-thick doors; 2¾" backset
- Include 4 AA batteries

Event audit trail provides a printable time/date-stamped log of all door activity. Features include audible low battery alert, timed relock, codes for 1-time use, antitamper function (invalid entry), and total user lockout codes. Lock can be programmed and audits downloaded via software and laptop PC (not included). Locks have a vandal-resistant all-metal keypad. Class/storeroom function requires no code for egress. Unique Lectro Belt eliminates wiring to or through the door. Retrofit standard ASA 161 door preps.

Description	Key Override Options	Max. User Codes	Finish	Item No.
Cylindrical	Schlage "C" Keyway (Included)	100	Satin Chrome	**2ZU97**
Lever	KABA Cylinder (Schlage "C" Keyway) Included	1	Satin Brass	**2ZU96**
Cylindrical	Best and Equivalents	100	Satin Chrome	**5BB75**
Lever	Best and Equivalents (6 or 7 Pin)	1	Satin Brass	**5BB74**

Self-Powered 6NVN9

Battery-Powered 2ZU99

2000 Series, Grade 1 Electronic Push-Button Locks

E-PLEX BY KABA

- 100 individual user codes
- For 1⅜"- to 2½"-thick doors; 2¾" backset

No wiring to install. Nonhanded, field-reversible locks have a vandal-resistant, all-metal keypad and a solid cast exterior housing and lever. Classroom/storeroom function; no code required for egress. Come with a standard core or are prepped for a SFIC cylinder (not included). Include lock assembly, installation manual, template, reference guide, operations manual, and hardware. Retrofit standard ASA 161 door preps.

PowerPlex Self-Powered—Efficient and innovative electronic locks generate power with each turn of the lever; no batteries required and virtually no maintenance costs. 6NVN9 includes Schlage C keyway, 2 keys. 6NVP0 is for use with Best SFIC 6- or 7-pin length, not included.

Battery-Powered—Feature audible low battery alert, timed relock, codes for 1-time use, antitamper function (invalid entry), and total user lockout codes. Include 3 AA batteries.

Keying	D (in.)	W (in.)	Mfr. Model	Item No.
PowerPlex Self-Powered				
Schlage "C"	3 3/16	3 5/16	P2031XSLL62641	**6NVN9**
Best & Equivalents	3 3/16	3 5/16	P2031BLL62641	**6NVP0**
Battery-Powered				
Schlage "C"	2 13/16	3 5/16	E2031XSLL62641	**2ZU99**
Best & Equivalents	2 13/16	3 5/16	E2031BLL62641	**1NEZ7**

5000 Series Key-In Lever, Grade 1, Chrome

L1000 Series Lever, Standard, Chrome

1000 Series Knob, Standard, Chrome

Protective keypad covers available, see page 1979.

SIMPLEX BY KABA

Mechanical Access Control Push-Button Locks

- 1 user code
- For 1⅜"- to 2¼"-thick doors; 2¾" backset, ½" latch bolt
- Include ASA standard strikes

Provide an alternative to traditional keyed locksets. Classroom/storeroom function, no code required for egress. Retrofit standard ASA 161 door preps.

PROGRAMMABLE LOCKS, PUSH-BUTTON, GRADE 1 (5000 SERIES)
Standard KIL core included. Simple 4-screw installation. Compatible with most rim exit devices.

PROGRAMMABLE LOCKS, PUSH-BUTTON (L1000 SERIES)
Measure 9"L (inside) x 3⅛"W x 3 3/16"D.

Description	Keying	Hand	Satin Chrome Mfr. Model	Satin Chrome Item No.		Antique Brass Mfr. Model	Antique Brass Item No.	
Programmable Locks, Push-Button, Grade 1 (5000 Series)								
Lever	KIL	Reversible	5021-XS-WL-26D-41	**2ZU95**		—	—	
Lever	SFIC	Reversible	5021-B-WL-26D-41	**5BB73**	*	—	—	
Exit Trim, Lever	KIL	Reversible	5010-XS-WL-26D-41	**2ZV18**		—	—	
Programmable Locks, Push-Button (L1000 Series)								
Lever	Standard	Left	LL-1011-26D-41	**5U740**		LL-1011-05-41	**5U739**	
Lever	Standard	Right	LR-1011-26D-41	**5U742**		LR-1011-05-41	**5U741**	
Lever	SFIC	Left	LL-1021-B-26D-41	**4YF90**	*	LL-1021-B-05-41	**4YF89**	*
Lever	SFIC	Right	LR-1021-B-26D-41	**4YF92**	*	LR-1021-B-05-41	**4YF91**	*
Knob	Standard	Reversible	1011-26D-41	**1U140**		1011-05-41	**1U092**	
Lever	KIL	Reversible	5021XKWL26D41	**9LDD6**		—	—	
Knob	SFIC	Reversible	1021-B-26D-41	**4YF88**	*	1021-B-05-41	**4YF87**	*
Knob, Passage	Standard	Reversible	1031-26D-41	**1U141**		1031-05-41	**1U083**	
Mechanical Push Button Lockset								
Knob	Combination Access	Reversible	EE11/1126D41	**31NG48**		—	—	
Lever	R/C Schlage	Left	LL1021S26D41	**31NG77**		—	—	
Lever	R/C Schlage	Right	LR1021S26D41	**31NG80**		—	—	

** Cylinders not included.*

Lever Lockset

Knob Lockset

Mechanical Access Control Locks

SIMPLEX BY KABA

- 1 user code
- For 1⅜"- to 2½"-thick doors
- 2 cover plates included with each lock
- Satin Stainless Finish

Vandal-resistant, all-metal keypad. Nonhanded, field reversible. Lever locksets are 7 7/16"L x 2¼"W x 3"D. Breakaway lever helps keep vandals from damaging drive components. Knob locksets are 6 1/16"L x 2 3/16"W x 3"D. No batteries required.

Description	▶CHOOSE: Backset	Item No.
Lever Lockset	2⅜ in, 2¾ in	**D0001**
Knob Lockset	2⅜ in, 2¾ in	**D0002**

With Deadlocking Latch

900 Mechanical Access Control

SIMPLEX BY KABA

- 1 user code
- 2½" backset

Classroom/storeroom function, no code required for exit. Nonhanded, field reversible. No batteries required. Can be used alone or with an existing lockset. Require a 1⅝"-dia. mounting hole. Measure 4"W x 5"H.

Note: All locks include a sheet metal strike for outswing doors and a cast box strike for inswing wood frame installation.

With Deadbolt—Deadbolt extends 1" from edge of door. Lock remains open and must be manually relocked. Egress by thumbturn.

With Deadlocking Latch and Holdback—Helps secure latch against prying. Automatically relocks after egress, except when latch hold-back is activated. No code is required for entry. Exit by thumbturn.

With Deadlocking Latch, No Hold-Back—Helps secure latch against prying. Automatically relocks after egress.

Metal Frame Adapter Kit—Includes surface-mounted strike with shims to adjust strike box. With ¼" x ⅜" reversible riser plate for aligning inside housing to strike.

▶CHOOSE: Door Thickness	▶CHOOSE: Finish	Item No.
With Deadbolt		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0003**
With Deadlocking Latch and Holdback		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0004**
With Deadlocking Latch, No Hold-Back		
1⅜ to 1½, 1¾ to 2⅛	Satin Brass, Satin Chrome	**D0005**
Metal Frame Adapter Kit		
—	Satin Brass, Satin Chrome	**D0006**

SECURITRON
ASSA ABLOY

Surface-Mount Magnalock Electromagnetic Locks

5KZU9

Fail-safe locks feature automatic dual voltage and instant release circuit. Brushed stainless steel finish. All ferrous metals plated to MIL specification. Mount using machine screws into blind finishing nuts; brackets and accessories available separately to configure any opening. Fully sealed electronics are tamperproof and weatherproof; safe for outdoor/marine use. All locks include 10 ft. of jacketed, stranded conductor.

M32 Series—M32-series locks provide 600-lb. holding force and are for use in medium-security applications. Require 2¼" flat mounting space. M32-series locks provide 600-lb. holding force and are for use in medium-security applications. Require 2¼" flat mounting space.

M62 Series—M62-series locks provide 1200-lb. holding force and are for use in high-security locations. Require 2½" flat mounting space.

Amp Draw @ 12V	24V	Lock Body (in.) L	W	D	Type	Mfr. Model	Item No.
M32							
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	—	M32	**5KZU9**
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	Face Mount	M32F	**5KZV0**
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	Face Mount/Bond Sensor	M32FB	**5KZV1**
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	Face Mount/Bond Sensor/Door Position Switch	M32FBD	**5KZV2**
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	Bond Sensor	M32B	**5KZV4**
300mA@12V DC	150mA@24V DC	8 in	1 ⅞ in	1 39/64 in	Bond Sensor/Door Position Switch	M32BD	**5KZV5**
M62							
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	—	M62	**5KZV7**
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	Face Mount	M62F	**5KZV8**
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	Face Mount/Conduit Fitting	M62FG	**5KZV9**
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	Face Mount/Conduit Fitting/Bond Sensor/Door Position Switch	M62FGBD	**5KZW1**
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	Face Mount Door Position Switch	M62FD	**5KZW3**
250mA@12V DC	150mA@24V DC	8 in	3 in	1 ¾ in	Conduit Fitting	M62G	**5KZW4**

SECURITRON
ASSA ABLOY

Dual-Action Electromechanical Maglocks

- 4000-lb. holding force
- Dual voltage 12/24VDC and dual current AC/DC

Hybrid design combines electromagnetic lock with 2 hardened steel electromechanical jaws. In a forced entry attempt, steel jaws rotate inward, clamping down and capturing the edges of the armature. Brushed stainless steel finish with included dress cover. Mount using machine screws into blind finishing nuts. Indoor use only. Brackets configure any opening, sold separately.

5KZY0

Amp Draw @ 12V	24V	Lock Body (in.) L	W	D	Type	Mfr. Model	Item No.
Electromechanical Locks							
130mA@12V DC	250mA@24V DC	6 in	2 ¾ in	1 ⅞ in	—	MM15	**5KZY0**
130mA@12V DC	250mA@24V DC	6 in	2 ¾ in	1 ⅞ in	Conduit Fitting	MM15G	**5KZY2**
130mA@12V DC	250mA@24V DC	6 in	2 ¾ in	1 ⅞ in	Door Position Switch/Antitamper	MM15DT	**5KZY1**
Accessories							
½" Stop Filler Plate, Clear, MM15						SFP-1/2CLMM15	**5KZY6**
Z Bracket Kit, Clear, MM15						Z-MM15CL	**5KZY8**
3" Header Extension Bracket for Glass Door, Clear, M32/M62						HEB-3G	**5KZZ4**

SECURITRON
ASSA ABLOY

Electromagnetic Gate Lock with Shock-Absorbing Armature

- 1200-lb. holding force

Face-mount Magnalock with ¾" male conduit fitting is designed for heavy-duty applications. Stainless steel armature hardware kit provides superior impact absorption. Features ⅝" impact compression with 100-lb. resistance. Antikickback spring provides ⅜" rebound travel.

Amp Draw @ 12V	24V	Lock Body (in.) L	W	D	Mfr. Model	Item No.
250mA	125mA	8 in	3 in	1 ¾ in	M62FG-SASM	**5KZU6**

SECURITRON
ASSA ABLOY

High-Security Electromechanical Gate Lock

5KZU7
5KZU5

Designed for vehicle or pedestrian applications, gate lock operates with up to 100 lb. of preload. Fail-secure convertible to fail-safe. Self-aligning receiver adjusts ½" vertically and horizontally to compensate for gate sag or misalignment. Lock features manual key override for right or left hand. 3/16"-thick zinc-plated steel gate bracket kits are designed for sliding and swinging gates. Post brackets are predrilled, and lock brackets are pretapped for easy installation. O.D. up to 3" for gate post bracket; up to 2" for fence post bracket.

Description	Amp Draw @ 12V	24V	Lock Body (in.) L	W	D	Mfr. Model	Item No.
2,000 lb. Electromechanical Gate Lock	870mA	720mA	7 ¼ in	2 ¾ in	3 ¼ in	GL1-FL	**5KZU5**
Flex-Mount Bracket Kit - Sliding Gate	—	—	—	—	—	FMK-SL	**5KZU7**
Flex-Mount Bracket Kit - Swinging Gate	—	—	—	—	—	FMK-SW	**5KZU8**

Electromagnetic Lock

Touch Bar

SCHLAGE

Electromagnetic Locking Devices

LOCKS

Use to monitor a controlled area such as a hospital laboratory or a secure area in an airport. Also used to provide traffic control for doors in a commercial or education building. Utilize magnetic forces to maintain powerful bond between frame-mounted magnet and door-mounted armature. Available for surface-mount and concealed-mount applications in a variety of holding forces.

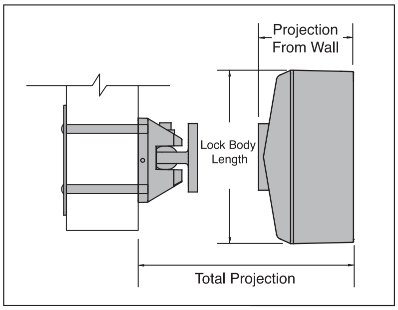
TOUCH BARS

Request-to-exit devices used to release electromagnetic locks. Designed for easy installation, smooth operation, and maximum durability.

LOCK ACTIVATION EXIT DEVICES

Magnetic spring design allows configuration of clockwise and counterclockwise key turn direction as well as momentary or maintained action.

Description	Mfr. Model	Item No.
Electromagnetic Locks, Automatic Voltage Selection, Aluminum Canisters		
Electromagnetic Lock, 500 lb. Holding Force	M420	**6LCZ1**
Electromagnetic Lock, 1,000 lb. Holding Force	M450	**6LCY2**
Electromagnetic Lock, 1,500 lb. Holding Force	M490	**6LCY5**
Electromagnetic Locks, Automatic Voltage Selection, Magnetic Bond Sensor, Door Position Switch, Relock Time Delay, Aluminum Canisters		
Electromagnetic Lock, 500 lb. Holding Force	M420P	**6LCZ2**
Electromagnetic Lock, 1,000 lb. Holding Force	M450P	**6LCY3**
Top Jamb Brackets, Inswing Doors		
For Use With Electromagnetic Lock 6LCZ1, Electromagnetic Lock 6LCZ2	TJ420 628	**6LCZ3**
For Use With Electromagnetic Lock 6LCY2, Electromagnetic Lock 6LCY3	TJ450 628	**6LCY4**
For Use With Electromagnetic Lock 6LCY5, Electromagnetic Lock 6LCY6	TJ490 628	**6LCY7**
Electromagnetic Lock Activation Touchbars		
Heavy-Duty Touchbar, Push-to-Exit, Aluminum, For Doors 36" or Less, 20 AWG Leads	672 36 628 RD AR	**4GD88**
Electromagnetic Lock Activation Exit Devices		
Keyswitch Exit Device, Aluminum, 3A Rating @ 28 VDC, Fits 1 Gang Box	653-04	**4GD91**
Keyswitch Exit Device, Aluminum, 2A Rating @ 28 VDC, Fits 1 Gang Box	653-05	**4GD92**
Access Control Keypad, Black	IQ1LITE/19	**22PE95**
Access Control Keypad w/ Rim Panic, Black	M9900LITE/32D	**22PE96**
Replacement Battery Pack		
For Lock Power Supply	900-BB	**6LCZ5**



6T310

2KFP1

40GN68

RIXSON ASSA ABLOY · Edwards Signaling · LCN

Electromagnetic Door Releases

Hold doors open until released by a fire alarm system, remote smoke detector, or other switching device. Fail-safe operation—power failure releases door to a closed position. Door closer is required to close door. Surface-mount models require a surface adapter housing (junction box), which is included. Recessed-mount models are for concealed wiring applications and mount on 2" x 4" outlet boxes.

Description	Power Req.	Holding Force	Projection from Wall	Total Projection	Lock Body Length	Mfr. Model	Item No.
Rixson							
Wall Mount, Surface	0.08 A @ 12V DC, 0.08A @ 120V AC, 0.08A @ 24V AC/DC	30 lb	2 ⅜ in	4 in	4 ⅝ in	996	**6T310**
Wall Mount, Recessed	0.08 A @ 12V DC, 0.08A @ 120V AC, 0.08A @ 24V AC/DC	30 lb	⅞ in	3⅝ in	4 ⅝ in	998	**6T308**
Wall Mount, Recessed, Adjustable	0.2A @ 120V AC, 0.2A @ 24V AC/DC	50 to 55 lb	3 ¾ in	4⅛ in	—	994-A3	**4AZR3**
Wall Mount, Surface or Recessed, High Hold	0.25A @ 24V AC/DC	300 lb	2 ¼ in	5¼ in	—	993-AC	**4AZR4**
Sliding Door	0.08A @ 24 V DC	75 lb	3 ¼ in	3¼ in	—	972-ABXXS	**4AZR5**
Overhead Door	0.08 A @ 12V DC, 0.08A @ 120V AC, 0.08A @ 24V AC/DC	75 lb	3 ¼ in	3¼ in	—	972-AAXXU	**4AZR6**
Floor Mount, Single Door	120V AC, 12V DC, 24V AC/DC	30 to 40 lb	—	6⅝ in	—	980-A3	**4AZR7**
Floor Mount, Back to Back Door	0.08 A @ 12V DC, 0.08A @ 120V AC, 0.08A @ 24V AC/DC	30 to 40 lb	—	8¼ in	—	981-A3	**4AZR8**
Extension Kit	—	—	—	Adds 1½ in to 3¾ in	—	900-G	**1RM43**
Edwards Signaling							
Wall Mount, Surface	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	2 7⁄16 in	4 1⁄16 in	4 ⅝ in	1508-AQN5	**2KFP1**
Wall Mount, Recessed	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	13⁄16 in	3 7⁄16 in	4 ⅝ in	1504-AQN5	**2KFN9**
Floor Mount, Single Door	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	4 13⁄16 in	6 7⁄16 in	3 ¼ in	1501-AQN5	**2KFN7**
Floor Mount, Double Door	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	4 ⅞ in	6½ in	3 ¼ in	1502-AQN5	**2KFN8**
Wall Mount	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	13⁄16 in	2 7⁄16 in	4 ⅝ in	1505-AQN5	**34F727**
Flush Mount	0.15A @ 120V AC, 0.15A @ 24V AC/DC	25 to 50 lb	7⁄32 in	1 27⁄32 in	4 ⅝ in	1509-AQN5	**34F728**
Short Arm	—	—	—	1 ⅝ in	—	CS2595-5	**34F729**
Long Arm	—	—	—	2 ⅝ in	—	CS2598-5	**34F730**
LCN							
Surface Mount	120V AC, 12V DC, 24V AC/DC	35 lb	2 ½ in	4⅛ in	4 ⅝ in	SEM7830 AL	**40GN68**
Recessed Mount	0.02A @ 24V AC/DC, 0.03A @ 12V DC, 120V AC	35 lb	1 in	2⅝ in	4 ⅝ in	SEM7840 AL	**40GN69**

ALARM CONTROLS ASSA ABLOY · hes ASSA ABLOY · VON DUPRIN®

Electric Strikes

Electric strikes control access by either holding or releasing a latch bolt. Hard-wire electric strikes connect to a power source and a controller (typically a push-button switch, keypad, or card reader).

A fail-safe electric strike needs power to remain locked.

A fail-secure electric strike remains locked even without power. Device prevents entry; a doorknob or lever on the lock allows for egress.

Rectifiers—Convert AC power to DC.

4WY66

4WY69

4WY71

2MXN2

Description	Failure Mode	Input Voltage	Door Frame Type	Faceplate Dim. W	Faceplate Dim. H	Faceplate Dim. D	Pull Force	Grade	Mfr. Model	Item No.	
Alarm Controls											
Mortise Locksets											
Medium-Duty	Fail Safe	12/24 V AC/DC	Aluminum/Hollow Metal/Wood	1 ¼ in	4 ⅞ in	⅛ in	1,000 lb	2	AES-200	**48ZW70**	
Rim Type Exit Devices											
Heavy-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Aluminum/Hollow Metal/Wood	1 ¼ in	4 ⅞ in	⅛ in	1,500 lb	1	AES-100	**48ZW69**	
Hes											
Cylindrical Locksets											
Medium-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¼ in	4 ⅞ in	1 11/16 in	1,500 lb	1	8300C	**49U739**	
Medium-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¼ in	4 ⅞ in	1 11/16 in	1,500 lb	1	8000C	**49U738**	
Heavy-Duty	Fail Safe or Fail Secure	12 V AC/DC	Hollow Metal	1 ¼ in	4 ⅞ in	1 11/16 in	1,500 lb	1	7501-630-12VDC	**2MXL6**	*
Mortise Locksets											
Cylindrical Locks and Mortise Locks Without a Deadbolt	Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¼ in	4 ⅞ in	1 11/16 in	3,070 lb	1	1006CLB	**49U737**	
Rim Type Exit Devices											
Heavy-Duty	Fail Secure	12/24 V AC/DC	Metal/Wood	—	—	—	3,070 lb	1	1006 630	**28XN34**	
Heavy-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¼ in	4 ⅞ in	⅛ in	1,500 lb	1	5000C-12/24D-630	**49AV53**	
Heavy-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¾ in	9 in	¾ in	2,000 lb	1	9600 629	**45DJ77**	
Heavy-Duty	Fail Safe or Fail Secure	12/24 V AC/DC	Metal/Wood	1 ¾ in	9 in	½ in	1,500 lb	1	9400-12/24D-630	**49AV57**	
Heavy-Duty	Fail Safe or Fail Secure	24 V AC/DC	Aluminum	1 ¾ in	9 in	½ in	1,000 lb	2	7000-24-789S-626-GR	**2MXL3**	†
Heavy-Duty Surface-Mount	Fail Safe or Fail Secure	12/24 V AC/DC	Hollow Metal/Wood	1 ¾ in	9 in	¾ in	1,500 lb	1	9600-630-GR	**2MXN2**	†
Heavy-Duty Surface-Mount	Fail Secure	12/24 V AC/DC	Hollow Metal/Wood	1 ¾ in	9 in	¾ in	1,500 lb	1	9500-630-GR	**2MXN3**	*
Von Duprin											
Cylindrical Locksets											
Medium-Duty	Fail Secure	12/24 V AC/DC	Aluminum/Hollow Metal/Wood	1 1/16 in, 1 ¼ in, 1 7/16 in	4 ⅞ in, 7 15/16 in	⅛ in	1,000 lb	1	5100-3FP SP28	**4WY66**	
Cylindrical Locksets and Mortise Locksets (Without Deadbolts)											
Heavy-Duty	Fail Secure	24 V AC/DC	Aluminum/Hollow Metal/Wood	1 ¼ in	4 ⅞ in	⅛ in	1,500 lb	1	6211 24V US32D CON	**4WY69**	*
Heavy-Duty	Fail Secure	12 V AC/DC	Aluminum/Hollow Metal/Wood	1 ¼ in	4 ⅞ in	⅛ in	1,500 lb	1	6211 12V US32D CON	**4WY70**	*
Heavy-Duty	Fail Secure	24 V AC/DC	Aluminum/Hollow Metal/Wood	1 ⅜ in	9 in	3/16 in	1,500 lb	1	6215 24V US32D CON	**4WY71**	*
Rim Type Exit Devices											
Heavy-Duty	Fail Secure	24 V AC/DC	Aluminum/Hollow Metal/Wood	1 ⅝ in	9 in	¾ in	1,500 lb	1	6112 24V US32D CON	**4WY67**	*
Heavy-Duty	Fail Secure	12 V AC/DC	Aluminum/Hollow Metal/Wood	1 ⅝ in	9 in	¾ in	1,500 lb	1	6112 12V US32D CON	**4WY68**	*

Fire-rated, stainless steel, and UL 1030 burglary-resistant. † Stainless steel and burglary-resistant.

Adams Rite ASSA ABLOY

Narrow-Stile Electric Strikes, Grade 1

- 1500-lb. holding force
- ½" bolt throw
- Case size: 1" x 3⅜" x 1⅝"D
- Strike opening: ⅝" x 1 7/16" x ½"D

Fail-secure strikes fit in frames for aluminum or wood doors in storefronts and other commercial and retail applications. Strikes exceed 500,000 cycles and 70 ft.-lb. dynamic force. Series 7130 strikes are for use when converting from an Adams Rite MS pivoted-bolt deadlock to a deadlatch.

Finish	Faceplate Height	Input Voltage	Mfr. Model	Item No.
For Aluminum Doors				
Satin Aluminum	4 ⅞ in	24 V AC/DC	7100-540-628-00	**2EUT8**
Dark Bronze	4 ⅞ in	24 V AC/DC	7100-540-313-00	**2EUT9**
Satin Aluminum	4 ⅞ in	24 V AC/DC	7100-510-628-00	**2EUU1**
Dark Bronze	4 ⅞ in	24 V AC/DC	7100-510-313-00	**2EUU2**
Satin Aluminum	6 ⅞ in	24 V AC/DC	7130-540-628-00	**2EUU7**
Dark Bronze	6 ⅞ in	24 V AC/DC	7130-540-313-00	**2EUU8**
Satin Aluminum	6 ⅞ in	24 V AC/DC	7130-510-628-00	**2EUU9**
Dark Bronze	6 ⅞ in	24 V AC/DC	7130-510-313-00	**2EUV1**
Clear Anodized	4 ⅞ in	12/24 V AC/DC	7400 X 628	**20UM66**
For Wood/Hollow Metal Doors				
Satin Aluminum	4 ⅞ in	24 V AC/DC	7140-540-628-00	**2EUU3**
Dark Bronze	4 ⅞ in	12/24 V AC/DC	7140-540-313-00	**2EUU4**
Satin Aluminum	4 ⅞ in	24 V AC/DC	7140-510-628-00	**2EUU5**
Dark Bronze	4 ⅞ in	24 V AC/DC	7140-510-313-00	**2EUU6**

2EUT8

2EUU8

SCHLAGE
SECURITRON
ASSA ABLOY
VON DUPRIN

4GD90

1RAD7

5LAA3

Push Buttons and Power Transfers

Easy-to-install and operate. Multiple button configuration and finish options provide enhanced architectural appeal.

Description	Mfr. Model	Brand	Item No.
Standard Pushbutton Station			
Standard "Exit" Push Button, Red "Exit"	701RD EX ILL	Schlage Electronics	**4GD90**
Standard Pushbutton			
Standard Push Button, Red Button	623RD	Schlage Electronics	**1RAD6**
Standard Push Button, Red ADA-Compliant Button	625RD	Schlage Electronics	**1RAD8**
Standard Push Button, Red	701RD	Schlage Electronics	**1RAE2**
Push to Exit Button			
Push-to-Exit Button, Red "Push-to-Exit" Button	623RD EX	Schlage Electronics	**1RAD7**
Standard Push Button, Red "Push-to-Exit" Button, ADA Compliant, Momentary Contact	625RD EX	Schlage Electronics	**1RAD9**
Momentary, S.G., DPST, Illuminated w/ Red/Grn Lens	PB	Securitron	**5LAA3**
Momentary, Single Gang, Grn/Red/Handicap	PB2	Securitron	**5XTD0**
Momentary, Single Gang, Grn/Red Lens	PB3E	Securitron	**5LAA5**
Momentary, Narrow Grn/Red Lens	PB3EN	Securitron	**5LAA6**
30 Sec. Timer - SG, Grn/Red/Handicap	EEB2	Securitron	**5LAA1**
30 Sec. Timer - Narrow Stile, Grn/Red	EEB3N	Securitron	**5LAA2**
Extreme-Duty Pushbutton			
Extreme-Duty Push Button, Aluminum, Momentary Contact	631AL	Schlage Electronics	**1RAE1**
Exit Motion Sensor			
Exit Motion Sensor, Plastic	XMS	Securitron	**5XTA9**
Electric Power Transfer Wire			
Electric Power Transfer Wire	EPT10 CON SP28	Von Duprin	**1RAK6**
Door Power Cord			
Door Power Cord, 12"	788 12	Schlage Electronics	**1RAF1**

45AX47

3HEP4

LCN®

Push Plate Actuators and Switches

Type	Switch Action	Button Dia.	Brand	Mfr. Model	Item No.
Panther Switch					
Square	Momentary/SPDT	4¾ in	BEA	10EMS4751	**45AX43**
Push Plate Actuator					
Surface Mounted	Instant Open	—	LCN	8310-853T	**3HEP2**
Surface Mounted	Instant Open	6 in	LCN	8310-852T	**3HEN9**
Square Switch					
Round	Momentary/SPDT	6 in	BEA	10PBR1	**45AX26**
Square	Momentary/SPDT	4½ in	BEA	10PBS451	**45AX47**
Square	Momentary/SPDT	4½ in	BEA	10PBS45POD	**45AX29**
Square	Momentary/SPDT	4½ in	BEA	10PBS45	**45AX06**
Square	Momentary/SPDT	4¾ in	BEA	10PBS1	**45AW69**
Wireless Push Plate Actuator					
Square 4 ¾ Surface Mounted Actuator	Instant Open	—	LCN	8310-853TWP	**4AYA5**
Surface Mounted	Instant Open	—	LCN	8310-3818TWS	**3HEP4**
Surface Mounted	Instant Open	6 in	LCN	8310-852TWP	**3HEP1**
Wireless Receiver					
1 Channel With Sequencing	—	—	LCN	8310-865	**3HEP3**

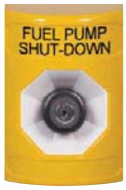
Emergency Exit

Emergency Power Off

Emergency

Exit

Fuel Pump Shut-Down



Push Buttons

STI Safety Technology International

Type	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Emergency Exit Push Button					
Key-To-Activate	**52CG10**	**52CG02**	—	—	—
Key-To-Reset	**52CG09**	**52CG01**	—	—	—
Momentary Mushroom	**52CG54**	**52CG44**	—	—	—
Pneumatic Adjustable Timer	**52CG11**	**52CG03**	—	—	—
Turn-To-Reset	**52CG12**	**52CG04**	—	—	—
Emergency Power Off Push Button					
Key-To-Activate	—	—	—	**52CG22**	**52CG18**
Key-To-Reset	—	—	—	**52CG21**	**52CG17**
Momentary Mushroom	—	—	—	**52CG68**	**52CG63**
Turn-To-Reset	—	—	—	**52CG24**	**52CG20**

Type	Blue Item No.	Green Item No.	Red Item No.	White Item No.	Yellow Item No.
Emergency Push Button					
Key-To-Activate	**52CG06**	—	**52CF90**	—	—
Key-To-Reset	**52CG05**	—	**52CF89**	—	—
Momentary Mushroom	**52CG49**	—	**52CG30**	—	—
Pneumatic Adjustable Timer	**52CG07**	—	—	—	—
Turn-To-Reset	**52CG08**	—	**52CF92**	—	—
Exit Push Button					
Key-To-Activate	—	**52CF97**	—	—	—
Key-To-Reset	—	**52CF96**	—	—	—
Momentary Mushroom	—	**52CG39**	—	—	—
Pneumatic Adjustable Timer	—	**52CF98**	—	—	—
Turn-To-Reset	—	**52CF99**	—	—	—
Fuel Pump Shut-Down Push Button					
Key-To-Activate	—	—	**52CF94**	—	**52CG14**
Key-To-Reset	—	—	**52CF93**	—	**52CG13**
Momentary Mushroom	—	—	**52CG35**	—	**52CG15**
Turn-To-Reset	—	—	**52CF95**	—	**52CG16**

2KFK2

STI Safety Technology International

Universal Push-Button Kit and Latching/Timer Module

Kit features cast-aluminum plate, illuminated message plate, and button. Translucent lenses allow for custom labels. Includes 2 Form "C" contacts and 300 combos.

Use latching timer as a latching module for momentary buttons. Fail Safe and Fail Secure operation modes. Digital timing circuit is 15, 30, 45 sec., or indefinitely. 12/24VAC/DC operation, 3A at 30VDC 125VAC.

Description	Mfr. Model	Item No.
Universal Push Button Kit	UB-1	**2KFK2**
STI Latching/Timer Module	LT-1	**4AGC2**

Digital Single Gang Keypad

SECURITRON ASSA ABLOY

- 99 user code

Designed for releasing any electric lock. Use in low- to medium-security applications. Features stainless steel plate with plastic backbox. Red/green/yellow LEDs function as indicators and programming prompts. Indoor use.

Description	Voltage	W	H	Mfr. Model	Item No.
12 Button Illuminated Digital Access Keypad, Single Gang	30 VDC or 300 VAC Switched Voltage	2 ¾ in	4 ½ in	DK-12	**10A459**

Digital Keypad Systems

SECURITRON ASSA ABLOY

- 59 user code
- Weather-resistant; operating temp. of -22° to 158°F

Vandal-resistant, 2-pc. system is designed to control electric locks. Feature narrow-stile cast stainless steel 10-digit keypad and remotely mounted CPU board. Include 3 LEDs and bell button.

Description	Voltage	W	H	Mfr. Model	Item No.
Access Control Keypad	12 or 24 AC/DC	1 ½ in	7 in	DK-26SS	**5KZT7**
Wiegand Output Access Control Keypad	12 or 24 AC/DC	1 ½ in	7 in	DK37WSS	**5KZT8**

5KZT7

Enclosures for Keypads, Buttons, and Light Switches

STI Safety Technology International

Multipurpose Keypad and Push-Button Enclosures— Polycarbonate enclosures protect against weather, vandalism, and theft. 3FVR4 is smoke-colored to help guard against password theft.

Flip-Up Polycarbonate Protectors— Rugged enclosures help protect keypads and push-button locksets from weather, vandalism, and theft. Easy to install.

Indoor/Outdoor Covers— Polycarbonate; include gaskets and mounting hardware. Large interior space protects dual-action pull stations, keypads, intercoms, push buttons, electrical switches, and duplex plugs.

Description	H	W	D	Color	Std.	Mfr. Model	Item No.
Multipurpose Keypad and Push Button Enclosures							
Protective Cabinet	14 ½ in	12 ½ in	6 ½ in	Clear	cUL, UL	STI-7530	**3FVR1**
NEMA 4X Protective Cabinet	10 ⅞ in	8 ⅞ in	3 ⅝ in	Clear	cUL, UL	STI-7520	**3FVP9**
Protective Cover	6 ¾ in	8 ¾ in	5 in	Smoke	cUL, UL	STI-7505	**3FVR4**
Without Alarm	4 15⁄32 in	3 9⁄32 in	1 5⁄32 in	Clear	—	STI-6519	**45YP74**
Flip-Up Polycarbonate Protectors							
Universal Stopper Cover	4 ¾ in	8 ¼ in	1 63⁄64 in	Clear	UL, cUL, ADA	STI-7700	**54JF51**
Protective Cover For Biometrics	3 in	3 ⅞ in	2 11⁄16 in	Clear	cUL, UL	STI-6514	**3FVR2**
Protective Cover For Keypads	3 ¼ in	3 ⅝ in	2 in	Clear	UL CUL ADA	STI-6516	**3FVR3**
Indoor/Outdoor Pull Station Covers							
Without Alarm	8 5⁄32 in	5 7⁄16 in	2 21⁄32 in	Clear	cUL, UL	STI-13000NC	**5AFX7**
Without Alarm, Universal Stopper	6 in	4 ⅞ in	3 11⁄64 in	Clear/Red/Gray	UL S2466, ADA	STI-14200NR-Z003	**45YP77**
Without Alarm, Fire Label	8 5⁄32 in	5 7⁄16 in	2 21⁄32 in	Red	cUL, UL	STI-13010FR	**5AFX8**
Without Alarm	10 13⁄64 in	7 13⁄64 in	5 ½ in	Clear	cUL, UL	STI-3150	**2KFK5**
Without Alarm	8 5⁄32 in	5 7⁄16 in	4 in	Clear	cUL, UL	STI-13200NC	**5AFY4**
Wire Cage	7 ⅓ in	6 ⅛ in	3 ⅓ in	White	UL and cUL	STI-9705	**16D841**
Indoor Pull Station Covers							
Without Alarm	8 ⅞ in	6 13⁄16 in	3 3⁄16 in	Red/Clear	UL, cUL, ADA	STI-1200	**1DPD6**
With Alarm	8 ⅞ in	6 13⁄16 in	3 3⁄16 in	Red/Clear	UL, cUL, ADA, FM, NY to BSA	STI-1100	**1DPD7**
With Alarm	8 ⅞ in	6 13⁄16 in	5 3⁄16 in	Clear	cUL, UL	STI-1130	**2KFK3**
Without Alarm	8 ⅞ in	6 13⁄16 in	5 3⁄16 in	Clear	cUL, UL	STI-1230	**2KFK4**
Indoor/Outdoor Covers							
Enclosed Backbox	8 5⁄32 in	5 7⁄16 in	4 in	Clear/Black	cUL, UL	STI-13400NK	**5AFY5**

Protective Cabinet 3FVR1

Indoor/ Outdoor Pull Station Cover w/ out Alarm 5AFY4

Plug-in Power Supplies

SECURITRON ASSA ABLOY

Ideal for powering a wide range of DC devices. Wall-mounted. Include internal thermal fuse and 16-ft. output cable.

Description	Input Voltage	Output Current (Amps)	Mfr. Model	Item No.
12V DC Plug-In Power Supply	120	700mA	PSP-12	**5KZX8**
24V DC Plug-In Power Supply	120	350mA	PSP-24	**5KZX9**

5KZX8

Linear Power Supplies

SECURITRON ASSA ABLOY

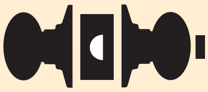
Allow for wire runs without the use of conduit from power supply to door. Use with voltage-sensitive safety and security components, including card readers, motion sensors, and DC cameras. Also recommended for where an interface with a fire alarm system or battery backup (internal charging) is needed. Use with sealed lead-acid batteries (not included).

Description	Input Voltage	Voltage Output	No. of Outputs	Encl. Width (in.)	Encl. Height (in.)	Encl. Depth (in.)	Mfr. Model	Item No.
Dual Voltage Boxed Power Supply	120V AC	12 or 24V DC	1	9 in	12 in	4 in	BPS-12/24-1	**5KZX3**
12V Boxed Power Supply	120V AC	12V DC	4	14 in	14 in	4 in	BPS-12-45	**5KZX4**
24V Boxed Power Supply	120V AC	24V DC	4	14 in	14 in	4 in	BPS-24-3	**5KZX6**
24V Boxed Power Supply	120V AC	24V DC	8	15 in	18 in	6 in	BPS-24-6	**5KZX7**

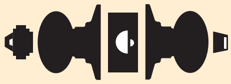
5KZX3

Lock Functions

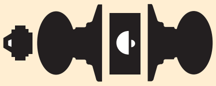
PASSAGE
Both outside and inside handles are always unlocked and free-turning. No keys are required.



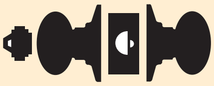
PRIVACY
Inside handle push button locks the outside handle. Emergency release is on the outside knob. Closing the door or turning the inside handle releases the button.



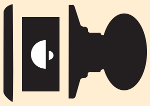
ENTRANCE
Inside handle push button locks the outside handle. Outside handle opens with a key or by turning the inside handle.



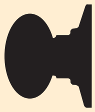
STOREROOM
Inside handle is always unlocked and free-turning. Outside handle is always locked and unlocks with a key.



CLASSROOM
Inside handle is always unlocked and free-turning. Outside handle is free-turning except when it is locked by a key.



EXIT
Deadlocking latchbolt is activated by the inside knob. Nonremovable blank plate is on the outside.



DUMMY
For applications where a latch bolt is not needed.

SECURITECH

Classroom/Intruder Door Lever Locksets

52HY92

- Strike: ½" x 4 ⅞"
- Door thickness: 1¾"
- Keyed different; Kenstan 54G keyway
- Brushed stainless steel finish

Extra heavy duty locks are suitable for installation on wood or metal doors. These reliable locksets provide security while allowing easy entrance and egress. Ligature resistant design. Include lock and mounting hardware.

Backset	Mfr. Model	Item No.
2 ¾ in	LSL-C1-SE2-630-LH	**52HY92**
2 ¾ in	LSL-C1-SE2-630-RH	**52HY93**
2 ¾ in	LSL-C1-SE2-630-LHR	**52HY94**
2 ¾ in	LSL-C1-SE2-630-RHR	**52HY95**
5 in	LSL-C2-SE1-630-RHR	**52HZ04**
5 in	LSL-C2-SE2-630-LH	**52HZ05**
5 in	LSL-C2-SE2-630-RH	**52HZ06**
5 in	LSL-C2-SE2-630-LHR	**52HZ07**

MARKSUSA®

Classroom Lever Lockset, Grade 1

22PE93

22PE95

- Backset: 2¾"
- Strike: ASA, 4⅞"
- Door thickness: 1¾"
- Keyed different

22PE93—Designed for added safety in the classroom. Teachers can lock and unlock the door from the exterior, with the interior always open. In emergency situations, the teacher can lock the classroom from the inside without having to step into the hallway to lock the outside handle. Zinc handle with satin chrome finish. Includes hardware. Lock comes with a 6-pin cylinder and 2 keys.

22PE95 and 22PE96—Both have a cylindrical lockset for 1¾" standard door; 22PE96 also includes a flush-mounted, beveled "Panic Protector" design. CableGard protects wires for easy installation. Preprogrammed code with 180 user codes and temporary user codes. Keypad programmable with passage mode and pin only mode. 2-wire remote release. Double code entry for maximum security. 16-digit tactile metal keypad and an audible and visible entry indicator. Weatherproof.

Keyway Type	Series	Mfr. Model	Item No.
Schlage SC4	DB	295DB/26D	**22PE93**

Description	Item No.
Access Control Keypad, Black	**22PE95**
Access Control Keypad w/ Rim Panic, Black	**22PE96**

Lever Locksets, Grade 1

35HU03

35HU09

- Backset: 2¾"
- Strike: 1¼" x 4⅞"
- Door thickness: 1¾" x 2¼"

Dummy locks feature a pull lever on one side with no mechanical operation. Entrance locks are designed with a latchbolt that is operated by lever from either side or key in the outside lever. The outside lever is locked by push/turn button on the inside.

Key Type	Style	Keyway Type	Finish	Mfr. Model	Item No.
Dummy					
Not Keyed	Boston	None	Satin Chrome	GT211BSN626234ASA	**35HU04**
Not Keyed	Miami	None	Satin Chrome	GT211MIA626234ASA	**35HU05**
Not Keyed	Philadelphia	None	Satin Chrome	GT211PHL626234ASA	**35HU03**
Entrance					
Different	Boston	Schlage SC4	Oil Rubbed Bronze	GT116BSN613234ASASCC	**35HU10**
Different	Philadelphia	Schlage SC4	Oil Rubbed Bronze	GT116PHL613234ASASCC	**35HU08**
Not Keyed	Boston	None	Satin Chrome	GT116BSN626234ASASFL	**35HU07**
Not Keyed	Boston	None	Oil Rubbed Bronze	GT116BSN613234ASASFL	**35HU11**
Not Keyed	Philadelphia	None	Satin Chrome	GT116PHL626234ASASFL	**35HU06**
Not Keyed	Philadelphia	None	Oil Rubbed Bronze	GT116PHL613234ASASFL	**35HU09**

SCHLAGE

Lever Locksets, Grade 1 and 2

- Backset: 2¾"
- Strike: 1¼" x 4⅞", square corner, no box
- Door thickness: 1⅝" to 2⅛"
- Square corner faceplate: 1⅛" x 2¼"

Include 1" housing dia., ½" throw, and 6-pin solid brass cylinder. C123 keyway. 2 nickel silver keys per lock.

Grade 1, ND Series levers are heavy-duty cylindrical locks. Antimicrobial coating 626AM inhibits bacteria growth.

Grade 2, Elan Series are light-duty residential locks.

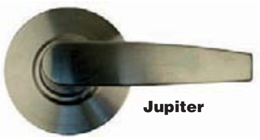
Grade 2, AL Series levers are standard-duty commercial locks.

Note: For freewheeling lever models that protect against abusive rotational force, go to grainger.com and search "freewheeling lever".

Athens

Rhodes

Sparta


Jupiter

Neptune

Saturn

Function	SATIN CHROME Mfr. Model	Item No.	SATIN CHROME LESS SFIC CYLINDER Mfr. Model	Item No.	ANTIMICROBIAL SATIN CHROME Mfr. Model	Item No.
Grade 1, ND Series						
ND Athens						
Classroom	ND70PD ATH 626 C123	**36Z321**	—	—	—	—
Entry	ND53PD ATH 626 C123	**36Z307**	ND53BD ATH 626	**36Z302**	—	—
Passage	ND10S ATH 626	**36Z281**	—	—	—	—
Privacy	ND40S ATH 626	**36Z292**	—	—	—	—
Storeroom	ND80PD ATH 626 C123	**36Z343**	—	—	—	—
ND Rhodes						
Classroom	ND70PD RHO 626 C123	**36Z324**	ND70BD RHO 626	**36Z317**	ND70PD RHO 626AM C123	**36Z325**
Entry	ND53PD RHO 626 C123 KA	**36Z310**	ND53BD RHO 626	**36Z303**	ND53PD RHO 626AM C123	**36Z311**
Passage	ND10S RHO 626	**36Z284**	—	—	ND10S RHO 626AM	**36Z285**
Privacy	ND40S RHO 626	**36Z295**	—	—	ND40S RHO 626AM	**36Z296**
Storeroom	ND80PD RHO 626 C123	**36Z346**	ND80BD RHO 626	**36Z339**	—	—
ND Sparta						
Classroom	ND70PD SPA 626 C123	**36Z328**	ND70BD SPA 626	**36Z318**	—	—
Entry	ND53PD SPA 626 C123	**36Z314**	ND53BD SPA 626	**36Z304**	—	—
Passage	ND10S SPA 626	**36Z288**	—	—	ND10S SPA 626AM	**36Z289**
Privacy	ND40S SPA 626	**36Z299**	—	—	ND40S SPA 626AM	**36Z301**
Storeroom	ND80PD SPA 626 C123	**36Z350**	ND80BD SPA 626	**36Z340**	—	—
Grade 2, AL Series						
AL Jupiter						
Entry	AL53PD JUP 626 C123	**36Z049**	—	—	—	—
Passage	AL10S JUP 626	**36Z029**	—	—	—	—
Privacy	AL40S JUP 626	**36Z038**	—	—	—	—
AL Neptune						
Classroom	AL70PD NEP 626 C123	**36Z063**	AL70BD NEP 626	**36Z056**	—	—
Entry	—	—	AL53BD NEP 626	**36Z045**	—	—
Privacy	AL40S NEP 626	**36Z041**	—	—	—	—
AL Saturn						
Classroom	—	—	AL70BD SAT 626	**36Z057**	—	—
Entry	AL53PD SAT 626 C123	**36Z055**	—	—	—	—
Passage	AL10S SAT 626	**36Z035**	—	—	—	—
Grade 2, Elan Series						
F Elan						
Passage	F10 ELA 626	**36Z181**	—	—	—	—
Privacy	F40 ELA 626	**36Z204**	—	—	—	—

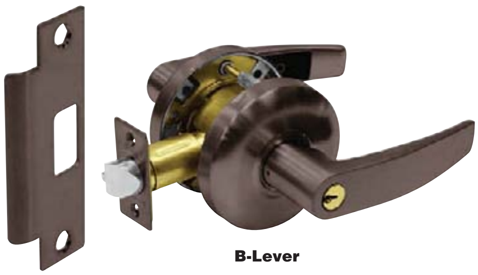
Lever Locksets, Grade 1 and 2

SARGENT
ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼", ANSI, curved lip
- Grade 1 door thickness: 1¾" to 2"
- Grade 2 door thickness: 1⅜" to 1¾"
- Include 2 nickel silver keys per lock

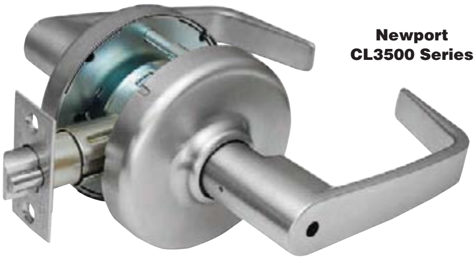
Cylindrical lever locksets have solid cast levers and 2¼" x 1⅛" faceplate. Nonhanded. ANSI 115.2 (161) modified door prep. Grade 1 levers have heavy-gauge parts and install quickly. Grade 2 levers have a brass latch bolt for durability.

Function	SATIN CHROME Mfr. Model	Item No.	OIL-RUBBED BRONZE Mfr. Model	Item No.
Grade 1				
B-Lever				
Classroom	28-10G37 LB 26D	**32J178**	28-10G37 LB 10B	**32J188**
Entry	28-10G05 LB 26D	**32J177**	28-10G05 LB 10B	**32J187**
Passage	28-10U15 LB 26D	**32J179**	28-10U15 LB 10B	**32J189**
Privacy	28-10U65 LB 26D	**32J180**	28-10U65 LB 10B	**32J190**
Storeroom	28-10G04 LB 26D	**32J176**	28-10G04 LB 10B	**32J186**
L-Lever				
Classroom	28-10G37 LL 26D	**32J173**	28-10G37 LL 10B	**32J183**
Entry	28-10G05 LL 26D	**32J172**	28-10G05 LL 10B	**32J182**
Passage	28-10U15 LL 26D	**32J174**	28-10U15 LL 10B	**32J184**
Privacy	28-10U65 LL 26D	**32J175**	28-10U65 LL 10B	**32J185**
Storeroom	28-10G04 LL 26D	**32J171**	28-10G04 LL 10B	**32J181**
Grade 2				
B-Lever				
Classroom	28-65G37 KB 26D	**32J198**	28-65G37 KB 10B	**32J209**
Entry	28-65G05 KB 26D	**32J197**	28-65G05 KB 10B	**32J208**
Passage	28-65U15 KB 26D	**32J199**	28-65U15 KB 10B	**32J210**
Privacy	28-65U65 KB 26D	**32J201**	28-65U65 KB 10B	**32J211**
Storeroom	28-65G04 KB 26D	**32J196**	28-65G04 KB 10B	**32J207**
L-Lever				
Classroom	28-65G37 KL 26D	**32J193**	28-65G37 KL 10B	**32J204**
Entry	28-65G05 KL 26D	**32J192**	28-65G05 KL 10B	**32J203**
Passage	28-65U15 KL 26D	**32J194**	28-65U15 KL 10B	**32J205**
Privacy	28-65U65 KL 26D	**32J195**	28-65U65 KL 10B	**32J206**
Storeroom	28-65G04 KL 26D	**32J191**	28-65G04 KL 10B	**32J202**


B-Lever

L-Lever

Newport CL3300 Series



Newport CL3500 Series

Newport CL3800 Series

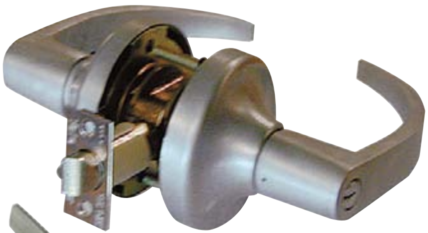
Lever Locksets, Grade 1 and 2

Corbin Russwin ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼", ANSI, curved lip
- Door thickness: 1¾" to 2" for CL3300 series, 1⅜" to 1¾" for CL3500 and CL3800 series

For use with ANSI 115.2 (161) modified door prep. Passage and Privacy locksets do not have cylinders; all other locksets have a 6-pin cylinder with L4 keyway that is keyed different and include 2 keys. CL3300 Series locksets are heavy-duty. They feature EZ-install components, Lever Release lever design for reduced breakage, heavy-duty return springs, and stainless steel latch bolt for increased durability and security. CL3500 Series locksets are nonhanded and have independent lever return springs for reduced lever sag, solid cast levers for increased strength, and through-bolt cylindrical chassis to ensure proper alignment. CL3800 Series locksets Lever Release lever design, solid cast levers for increased service life, through-bolts for solid attachment, and independent lever return springs.

		SATIN CHROME		OIL-RUBBED BRONZE	
Style	Function	Mfr. Model	Item No.	Mfr. Model	Item No.
Grade 1 CL3300 Series					
Newport	Entry	CL3351 NZD 626	**32J232**	CL3351 NZD 10B	**32J238**
	Passage	CL3310 NZD 626	**32J235**	CL3310 NZD 10B	**32J241**
	Privacy	CL3320 NZD 626	**32J236**	CL3320 NZD 10B	**32J242**
	Classroom	CL3355 NZD 626	**32J234**	CL3355 NZD 10B	**32J240**
	Classroom	CL3352 NZD 626	**32J237**	CL3352 NZD 10B	**32J243**
	Storeroom	CL3357 NZD 626	**32J233**	CL3357 NZD 10B	**32J239**
	Storeroom	CL3357 NZD 626 LC	**28XW01**	—	—
Grade 1 CL3500 Series					
Newport	Entry	CL3551 NZD 626	**32J244**	CL3551 NZD 10B	**32J249**
	Passage	CL3510 NZD 626	**32J246**	CL3510 NZD 10B	**32J251**
	Privacy	CL3520 NZD 626	**32J248**	CL3520 NZD 10B	**32J253**
	Classroom	CL3555 NZD 626	**32J247**	CL3555 NZD 10B	**32J252**
	Storeroom	CL3557 NZD 626	**32J245**	CL3557 NZD 10B	**32J250**
Grade 2 CL3800 Series					
Newport	Entry	CL3851 NZD 626	**32J254**	CL3851 NZD 10B	**32J259**
	Passage	CL3810 NZD 626	**32J255**	CL3810 NZD 10B	**32J260**
	Privacy	CL3820 NZD 626	**32J256**	CL3820 NZD 10B	**32J261**
	Classroom	CL3855 NZD 626	**32J258**	CL3855 NZD 10B	**32J263**
	Storeroom	CL3857 NZD 626	**32J257**	CL3857 NZD 10B	**32J262**



Pacific Beach

Augusta

5000 Series Lever Locksets, Grade 1 and 2

Yale

- Backset: 2¾"
- Strike: 4⅞" x 1¼" x 1¼" ANSI

Nonhanded, field reversible. Zinc dichromate plating resists corrosion. Keyed different. Heavy-Duty 5400LN series includes Free Wheeling design that helps minimize vandalism by allowing the lever to rotate freely when locked. For 1¾"- to 2"-thick doors. Standard-Duty 5300LN series is for 1⅜"- to 1¾"-thick doors. Models without cylinders accept both Yale and Schlage cylinders. MicroShield antimicrobial coating inhibits the growth of bacteria and lasts the lifetime of the finish.

		DULL CHROME		ANTIMICROBIAL DULL CHROME		DULL CHROME LESS CYLINDER		DULL CHROME LESS SFIC CYLINDER	
Style	Function	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
5400LN Series, Grade 1									
5400LN Pacific Beach	Entry	PB5407LN	**3ZV59**	PB5407LN x YMS	**5VTE3**	S-PB5407LN	**1ABH4**	B-PB5407LN	**6HGX9**
5400LN Pacific Beach	Passage	PB55401LN	**3ZV53**	PB5401LN x YMS	**5VTE0**	—	—	—	—
5400LN Pacific Beach	Privacy	PB5402LN	**3ZV55**	PB5402LN x YMS	**5VTE1**	—	—	—	—
5400LN Pacific Beach	Classroom	PB5408LN	**3ZV61**	PB5408LN x YMS	**5VTE4**	S-PB5408LN	**1ABH5**	B-PB5408LN	**6HGY0**
5400LN Pacific Beach	Storeroom	PB5405LN	**3ZV57**	PB5405LN x YMS	**5VTE2**	S-PB5405LN	**1ABH3**	B-PB5405LN	**6HGY1**
5400LN Augusta	Entrance	AU5407LN	**5T706**	—	—	—	—	—	—
5400LN Augusta	Passage	AU5401LN	**5T700**	AU5401LN x YMS	**5VTD5**	—	—	—	—
5400LN Augusta	Classroom	AU5408LN	**3ZV37**	AU5408LN x YMS	**5VTD9**	S-AU5408LN	**1ABH2**	B-AU5408LN X 626	**1RM56**
5400LN Augusta	Storeroom	AU5405LN	**5T704**	AU5405LN x YMS	**5VTD7**	S-AU5405LN	**1ABG9**	B-AU5405LN	**1RM54**
5400LN Augusta	Entry	—	—	AU5407LN x YMS	**5VTD8**	S-AU5407LN	**1ABH1**	B-AU5407LN	**1RM55**
5400LN Augusta	Privacy	—	—	AU5402LN x YMS	**5VTD6**	—	—	—	—
5300LN Series, Grade 2									
5300LN Pacific Beach	Entry	PB5307LN	**3ZV49**	PB5307LN x YMS	**5VTF3**	S-PB5307LN	**1ABJ1**	B-PB5307LN	**6HGY2**
5300LN Pacific Beach	Passage	PB5301LN	**3ZV43**	PB5301LN x YMS	**5VTF0**	—	—	—	—
5300LN Pacific Beach	Privacy	PB5302LN	**3ZV45**	PB5302LN x YMS	**5VTF1**	—	—	—	—
5300LN Pacific Beach	Classroom	PB5308LN	**4ECD7**	PB5308LN x YMS	**5VTF4**	S-PB5308LN	**1ABJ2**	B-PB5308LN	**6HGY3**
5300LN Pacific Beach	Storeroom	PB5305LN	**3ZV47**	PB5305LN x YMS	**5VTF2**	S-PB5305LN	**1ABH9**	B-PB5305LN	**6HGY4**
5300LN Augusta	Entry	AU5307LN	**4LM29**	AU5307LN x YMS	**5VTE8**	S-AU5307LN	**1ABH7**	B-AU5307LN	**1RM52**
5300LN Augusta	Passage	AU5301LN	**4LM23**	AU5301LN x YMS	**5VTE5**	—	—	—	—
5300LN Augusta	Privacy	AU5302LN	**4LM25**	AU5302LN x YMS	**5VTE6**	—	—	—	—
5300LN Augusta	Classroom	AU5308LN	**3ZV51**	AU5308LN x YMS	**5VTE9**	S-AU5308LN	**1ABH8**	B-AU5308LN	**1RM53**
5300LN Augusta	Storeroom	AU5305LN	**4LM27**	AU5305LN x YMS	**5VTE7**	S-AU5305LN	**1ABH6**	B-AU5305LN X 626	**1RM51**

For keyed alike or master keying, call 1-800-GRAINGER (472-4643)

4000 Series Lever Locksets, Grade 1 and 2

- Backset: 2¾"
- Strike: 2¼" x 4⅞" ANSI
- Door thickness: 1⅜" to 1¾"

Nonhanded field reversible. 4700 Series locks have free-wheeling levers that rotate when locked.

Augusta

Pacific Beach

Description	Lockset Function	Mfr. Model	Item No.
Grade 1, 4700LN Series			
Bright Brass			
4700LN Augusta	Classroom	AU4708LN x 605	**5VRP8**
4700LN Augusta	Entrance	AU4707LN x 605	**5VRP6**
4700LN Augusta	Passage	AU4701LN x 605	**5VRP0**
4700LN Augusta	Privacy	AU4702LN x 605	**5VRP2**
4700LN Augusta	Storeroom	AU4705LN x 605	**5VRP4**
4700LN Pacific Beach	Classroom	PB4708LN x 605	**5VRR8**
4700LN Pacific Beach	Entrance	PB4707LN x 605	**5VRR6**
4700LN Pacific Beach	Passage	PB4701LN x 605	**5VRR0**
4700LN Pacific Beach	Privacy	PB4702LN x 605	**5VRR2**
4700LN Pacific Beach	Storeroom	PB4705LN x 605	**5VRR4**
Dull Chrome			
4700LN Augusta	Classroom	AU4708LN x 626	**5VRP7**
4700LN Augusta	Entrance	AU4707LN x 626	**5VRP5**
4700LN Augusta	Passage	AU4701LN x 626	**5VRN9**
4700LN Augusta	Privacy	AU4702LN x 626	**5VRP1**
4700LN Augusta	Storeroom	AU4705LN x 626	**5VRP3**
4700LN Augusta, Less SFIC Cylinder	Classroom	B-AU4708LN x 626	**5VTF9**
4700LN Augusta, Less SFIC Cylinder	Entrance	B-AU4707LN x 626	**5VTF7**
4700LN Augusta, Less SFIC Cylinder	Storeroom	B-AU4705LN x 626	**5VTF5**
4700LN Pacific Beach	Classroom	PB4708LN x 626	**5VRR7**
4700LN Pacific Beach	Entrance	PB4707LN x 626	**5VRR5**
4700LN Pacific Beach	Passage	PB4701LN x 626	**5VRP9**
4700LN Pacific Beach	Privacy	PB4702LN x 626	**5VRR1**
4700LN Pacific Beach	Storeroom	PB4705LN x 626	**5VRR3**
4700LN Pacific Beach, Less SFIC Cylinder	Classroom	B-PB4708LN x 626	**5VTG0**
4700LN Pacific Beach, Less SFIC Cylinder	Entrance	B-PB4707LN x 626	**5VTF8**
4700LN Pacific Beach, Less SFIC Cylinder	Storeroom	B-PB4705LN x 626	**5VTF6**

Description	Lockset Function	Mfr. Model	Item No.
Grade 2, 4600LN Series			
Bright Brass			
4600LN Augusta, Interchangeable Core	Classroom	AU4608LN x 605	**5VRU2**
4600LN Augusta, Interchangeable Core	Entrance	AU4607LN x 605	**5VRU0**
4600LN Augusta, Interchangeable Core	Passage	AU4601LN x 605	**5VRT4**
4600LN Augusta, Interchangeable Core	Privacy	AU4602LN x 605	**5VRT6**
4600LN Augusta, Interchangeable Core	Storeroom	AU4605LN x 605	**5VRT8**
4600LN Pacific Beach	Classroom	PB4608LN x 605	**5VRV2**
4600LN Pacific Beach	Entrance	PB4607LN x 605	**5VRV0**
4600LN Pacific Beach	Passage	PB4601LN x 605	**5VRU4**
4600LN Pacific Beach	Privacy	PB4602LN x 605	**5VRU6**
4600LN Pacific Beach	Storeroom	PB4605LN x 605	**5VRU8**
Dull Chrome			
4600LN Augusta	Entrance	AU4607LN x 626	**5VRT9**
4600LN Augusta	Storeroom	AU4605LN x 626	**5VRT7**
4600LN Augusta, Interchangeable Core	Classroom	AU4608LN x 626	**5VRU1**
4600LN Augusta, Interchangeable Core	Privacy	AU4602LN x 626	**5VRT5**
4600LN Augusta, Less SFIC Cylinder	Classroom	B-AU4608LN x 626	**5VTG5**
4600LN Augusta, Less SFIC Cylinder	Entrance	B-AU4607LN x 626	**5VTG3**
4600LN Augusta, Less SFIC Cylinder	Storeroom	B-AU4605LN x 626	**5VTG1**
4600LN Pacific Beach	Classroom	PB4608LN x 626	**5VRV1**
4600LN Pacific Beach	Entrance	PB4607LN x 626	**5VRU9**
4600LN Pacific Beach	Privacy	PB4602LN x 626	**5VRU5**
4600LN Pacific Beach	Storeroom	PB4605LN x 626	**5VRU7**
4600LN Pacific Beach, Less SFIC Cylinder	Classroom	B-PB4608LN x 626	**5VTG6**
4600LN Pacific Beach, Less SFIC Cylinder	Entrance	B-PB4607LN x 626	**5VTG4**
4600LN Pacific Beach, Less SFIC Cylinder	Storeroom	B-PB4605LN x 626	**5VTG2**
Satin Chrome			
4600LN Augusta	Passage	AU4601LN x 626	**5VRT3**
4600LN Pacific Beach	Passage	PB4601LN x 626	**5VRU3**

Dane

Quantum

Less LSFIC Cylinder

Style	Function	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	SATIN CHROME, LESS SFIC CYLINDER Mfr. Model	SATIN CHROME, LESS SFIC CYLINDER Item No.
Grade 1 , T Series, For Door Thickness 1¾" to 2⅛"					
T Dane	Entry	T511CP6D D 626 KD	**36Z369**	T511BD D 626	**36Z366**
T Dane	Passage	T101S D 626	**36Z361**	—	—
T Dane	Privacy	T301S D 626	**36Z364**	—	—
T Dane	Classroom	T561CP6D D 626 KD	**36Z374**	T561BD D 626	**36Z371**
T Dane	Storeroom	T581CP6D D 626 KD	**36Z379**	T581BD D 626	**36Z376**
T Quantum	Entry	T511PD Q 626	**36Z370**	T511BD Q 626	**36Z367**
T Quantum	Passage	T101S Q 626	**36Z362**	—	—
T Quantum	Privacy	T301S Q 626	**36Z365**	—	—
T Quantum	Classroom	T561CP6D Q 626 C KWY	**36Z375**	T561BD Q 626	**36Z372**
T Quantum	Storeroom	T581CP6D Q 626 KD	**36Z380**	T581BD Q 626	**36Z377**
4000 Dane	Entry	—	—	T501BD D 626	**35YK73**
Grade 2, W Series, For Door Thickness 1⅜ to 1¾					
W Dane	Entry	W511CP6D D 626 KD	**36Z398**	W511BD D 626	**36Z395**
W Dane	Passage	W101S D 626	**36Z382**	—	—
W Dane	Privacy	W301S D 626	**36Z389**	—	—
W Dane	Classroom	W561CP6D D 626	**36Z408**	W561BD D 626	**36Z405**
W Dane	Storeroom	W581CP6D D 626	**36Z415**	W581BD D 626	**36Z412**
W Quantum	Entry	W511CP6D Q 626	**36Z404**	W511BD Q 626	**36Z396**
W Quantum	Passage	W101S Q 626	**36Z387**	—	—
W Quantum	Privacy	W301S Q 626	**36Z394**	—	—
W Quantum	Classroom	W561CP6D Q 626	**36Z411**	W561BD Q 626	**36Z406**
W Quantum	Storeroom	W581CP6D Q 626	**36Z420**	W581BD Q 626	**36Z413**

For keyed alike or master keying, call 1-800-GRAINGER (472-4643)

Lever Locksets, Grade 1 and 2

- Square corner faceplate: 1⅛" x 2¼"

Include 1" housing dia., ½" throw, and 6-pin solid brass cylinder. Schlage Classic C keyway. Keyed different. 2 nickel silver keys per lock.

Grade 1, T Series levers are heavy-duty cylindrical locks designed for facilities that are subjected to high-traffic/high-abuse conditions. Thru-bolted through the door. Chassis is secured by interlocking antirotation plate. Free-wheeling levers.

Grade 2, W Series levers are for high-use commercial applications such as schools, offices, and high-end residential. Solid stops in the lock and heavy-duty construction of all operating parts are designed to prevent damage when subjected to excessive force. Feature small format interchangeable cores (SFICs) that are compatible with SFIC products from other manufacturers.

Curved Return Lever

Contour Angle Lever

BEST

Lever Locksets, Grade 1 and 2

- Backset: 2¾"

Cylindrical chassis fit common door preparation. These locksets feature through-bolt mounting studs for increased torque resistance and quick rekeying with BEST interchangeable cores. Hub torque springs provide extra resistance to lever sag. Preassembled hubs provide quick, simple installation.

9K Series—Low-maintenance design protects critical components from the damage that comes with everyday use. Vandal-resistant lever features a lost motion design that allows lever to move 45° to 60° without engaging retractor assembly. Attack-resistant design with slotted key release cam and locking lug assembly allow key access even if lock is damaged and ensure that lever is functional from inside of the door. Outside lever sleeve is a single piece of seamless, hardened steel alloy that delivers additional reinforcement in the locking lug slot.

7K Series—Keeper hole is not exposed on keyed levers providing increased security. Snap-on inside rose means no exposed mounting screws. Keyed lever is removable only after removal of core. Internal steel mechanisms are corrosion-treated for normal atmospheric conditions. The lockset is reversible for either hand of door without removing keyed lever.

Style	Lockset Function	SATIN CHROME Mfr. Model	Item No.
9K Series, Grade 1			
9K Curved Return Lever	Passage	9K30N14DS3626	**49M862**
9K Contour Angle Lever	Passage	9K30N15DS3626	**49M863**
9K Curved Return Lever	Privacy	9K30L14DS3626	**49M864**
9K Contour Angle Lever	Privacy	9K30L15DS3626	**49M865**
9K Curved Return Lever	Entrance	9K37AB14CS3626	**49M866**
9K Curved Return Lever	Entrance	9K37AB14DS3626	**49M867**
9K Contour Angle Lever	Entrance	9K37AB15DS3626	**49M868**
9K Contour Angle Lever	Entrance	9K37AB15DSTK626	**49M869**
9K Curved Return Lever	Storeroom	9K37D14CS3626	**49M870**
9K Curved Return Lever	Storeroom	9K37D14DS3626	**49M871**
9K Contour Angle Lever	Storeroom	9K37D15DS3626	**49M872**
9K Contour Angle Lever	Storeroom	9K37D15DSTK626	**49M873**
9K Curved Return Lever	Classroom	9K37R14DS3626	**49M874**
9K Contour Angle Lever	Classroom	9K37R15DS3626	**49M875**
9K Contour Angle Lever	Dormitory	9K37T15DS3626	**49M876**
9K Contour Angle Lever	Intruder	9K37IN15DS3626	**49M877**
7K Series, Grade 2			
7KC Contour Angle Lever	Passage	7KC30N15DS3626	**49M848**
7KC Contour Angle Lever	Passage	7KC30N15DSTK626	**49M849**
7KC Contour Angle Lever	Privacy	7KC30L15DS3626	**49M850**
7KC Contour Angle Lever	Privacy	7KC30L15DSTK626	**49M851**
7KC Contour Angle Lever	Entrance	7KC27AB15DS3626	**49M852**
7KC Contour Angle Lever	Entrance	7KC27AB15DSTK626	**49M853**
7KC Contour Angle Lever	Entrance	7KC37AB15DS3626	**49M855**
7KC Contour Angle Lever	Entrance	7KC37AB15DSTK626	**49M856**
7KC Curved Return Lever	Storeroom	7KC37D14DS3626	**49M857**
7KC Contour Angle Lever	Storeroom	7KC37D15DS3626	**49M858**
7KC Contour Angle Lever	Storeroom	7KC37D15DSTK626	**49M859**
7KC Contour Angle Lever	Classroom	7KC37R15DS3626	**49M860**
7KC Contour Angle Lever	Classroom	7KC37R15DSTK626	**49M861**

J5612

ABH

Healthcare Mortise Locksets

- Paddle style
- Backset: 2¾"
- Strike: 4⅞"
- Door thickness: 1¾"
- ▶CHOOSE: Stainless steel, bright stainless steel, bright brass, satin brass, satin bronze, oil rubbed bronze

Features ligature-resistant trim with mortise lock body.

Lockset Function	Mfr. Model	Item No.
Privacy	LRF6632	**J5612**
Communicating	LRF6637	**J5613**
Hotel	LRF6645	**J5614**
Dormitory	LRF6653	**J5615**
Classroom	LRF6656	**J5616**
Storeroom	LRF6658	**J5617**
Passage	LRF6610	**J5636**
Entrance	LRF6638	**J5637**
Institution	LRF6641	**J5638**
Entrance/Office	LRF6654	**J5639**

J5630

J5620

ABH

Low-Profile Healthcare Latch, Grade 1

- Paddle style
- Strike: 4⅞"
- Door thickness: 1¾"
- ▶CHOOSE: Backset: 2¾", 3¾", 5" or 7"
- ▶CHOOSE: Left or Right Handed

Features cylindrical latch application for passage function.

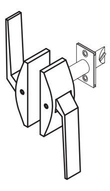
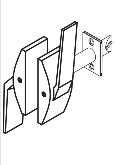
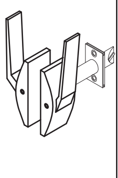
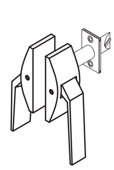
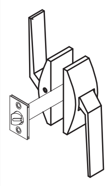
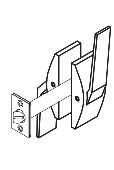
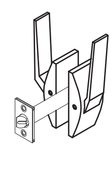
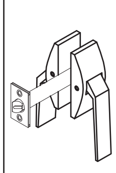
Flip Up Wide Paddle Push-Pull Latch—The push side of the paddle will flip up to be ligature-resistant, this application is used in behavioral health applications.

Quiet Push-Pull Latch—Features built in sound dampening functionality to provide a zero decibel solution specifically for patient healthcare environments. Can be field configured for any paddle designation and ease of use.

Wide Paddle Push-Pull Latch—Provides additional area on the paddle when pushing or pulling. Ideal for use in operatiing rooms along with patient rooms when additional leverage is needed.

▶CHOOSE: Handle Material	Finish	Item No.
Flip Up Wide Paddle Push-Pull Latch		
Stainless Steel	Oil Rubbed Bronze	**J5630**
Stainless Steel	Satin Bronze	**J5631**
Stainless Steel	Bright Brass	**J5632**
Stainless Steel	Satin Brass	**J5633**
Quiet Push-Pull Latch		
Stainless Steel	Satin Brass	**J5624**
Stainless Steel	Satin Stainless	**J5620**
Stainless Steel	Oil Rubbed Bronze	**J5621**
Stainless Steel	Satin Bronze	**J5622**
Stainless Steel	Bright Polished Brass	**J5623**
Copper Nickel	Satin Stainless	**J5634**
Wide Paddle Push-Pull Latch		
Copper Nickel, Stainless Steel	Satin Stainless	**J5629**
Stainless Steel	Oil Rubbed Bronze	**J5625**
Stainless Steel	Satin Bronze	**J5626**
Stainless Steel	Bright Polished Brass	**J5627**
Stainless Steel	Satin Brass	**J5628**

Choose Style

							
Push Down Pull Up Left Hand	Push Up Pull Down Left Hand	Push Up Pull Up Left Hand	Push Down Pull Down Left Hand	Push Down Pull Up Right Hand	Push Up Pull Down Right Hand	Push Up Pull Up Right Hand	Push Down Pull Down Right Hand

Angled

Straight

Beaver Tail

Master Lock® Kwikset

Lever Locksets, Grade 2 and 3

- Grade 2 backset: 2¾"
- Grade 3 backset: 2⅜" to 2¾"
- Door thickness: 1⅜" to 1¾" thick

Style	Function	Lockset Finish	Brand	Item No.
Grade 2				
SLC Angled	Privacy	Satin Chrome	Master Lock	**33M213**
SLC Angled	Storeroom	Satin Chrome	Master Lock	**33M215***
Grade 3				
1TPW Straight	Privacy	Satin Chrome	—	**1TPW9**
2VMW Angled	Entry	Bright Brass	—	**2VMW2**
1TPN Angled	Passage	Bright Brass	—	**1TPN2**
2VMX Straight	Entry	Bright Brass	—	**2VMX4**
1TPW Straight	Passage	Bright Brass	—	**1TPW6**
1TPW Straight	Privacy	Bright Brass	—	**1TPW5**
1TPP Beaver Tail	Privacy	Satin Nickel	—	**1TPP8**
200DL Delta	Passage	Satin Chrome	Kwikset	**2WHL9**
WL Wave	Privacy	Satin Nickel	Master Lock	**33M234**
WL Wave	Passage	Satin Nickel	Master Lock	**33M235**
SLL	Entry	Satin Nickel	Master Lock	**2RYE4**
405DL Delta	Entry	Satin Chrome	Kwikset	**2WHT8**

** Clutch style.*

Door Control Hardware

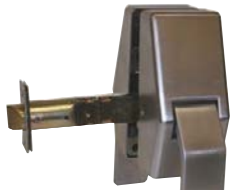
GLYNN-JOHNSON

- Nonhanded

Push/Pull Latches—For commercial and institutional settings. Variable mounting positions and no fusible links to fail. For all labeled metal or wood doors.

Overhead Holders and Stops—For high-traffic industrial applications. Mount out of the way, preventing stumbling hazards and decreasing vulnerability to accidents or vandalism.

Description	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.	ANTIMICROBIAL SATIN CHROME Mfr. Model	ANTIMICROBIAL SATIN CHROME Item No.
Push/Pull Latches, For Doors Up to 1¾", Including Fire Doors						
Push/Pull Latch, 2¾" Backset	HL6-2 626 A	**2RXW4**	HL6-2 630 A	**2RXW6**	HL6-US26DAM-2-AS	**4AYC7**
Push/Pull Latch, 5" Backset	HL6-5 626 A	**2RXW5**	HL6-5 630 A	**2RXW7**	HL6-US26DAM-5-AS	**4AYC8**
70 Series Heavy-Duty Overhead Holders and Stops, Surface-Mount						
Hold-Open Holder, Size 4	—	—	704H-SP28	**5YFE4**	—	—
Hold-Open Stop, Size 4	—	—	704S-SP28	**5YFE5**	—	—
Hold-Open Holder, Size 5	—	—	705H-SP28	**5YFE6**	—	—
Hold-Open Stop, Size 5	—	—	705S-SP28	**5YFE7**	—	—



2RXW4 Satin Chrome

2RXW7 Stainless Steel

Ligature-Resistant Push/Pull Paddlesets

MARKSUSA®

- Backset: 2¾"
- Strike: 2¾" cylindrical; 4⅞" mortise, ASA
- Door thickness: 1¾"
- Stainless steel finish

These paddlesets are specifically designed for healthcare facilities to prevent contamination under unhygienic conditions. Paddlesets can either be pushed or pulled by using an elbow or forearm to open the door.

Description	Function	Std.	Mfr. Model	Item No.
Cylindrical				
Keyless	Passage	ANSI F75, UL LISTED	1PDN/32D	**32J406**
Mortise				
Keyed Single Cylinder with Deadbolt	Entrance	ANSI F08, UL LISTED	5PDA/32D	**32J417**
Keyed Double Cylinder with Deadbolt	Entrance	ANSI F35, UL LISTED	5PDAC/32D	**32J430**
Keyless	Passage	ANSI F01, UL LISTED	5PDN/32D	**32J435**
Keyless	Privacy	ANSI F19, UL LISTED	5PDLF/32D	**32J437**
Keyless	Exit	ANSI F31, UL LISTED	5PDEX/32D	**32J439**
Keyed Single Cylinder, No Deadbolt	Storeroom	ANSI F07, UL LISTED	5PDEW/32D	**32J410**
Keyed Double Cylinder with Deadbolt	Storeroom	ANSI F14, UL LISTED	5PDC/32D	**32J431**
Keyed Single Cylinder, No Deadbolt	Classroom	ANSI F05, UL LISTED	5PDJ/32D	**32J411**
Keyed Double Cylinder, No Deadbolt	Classroom Security	ANSI, UL LISTED	5PDGG/32D	**32J427**
Keyed Single Cylinder, No Deadbolt	Privacy	ANSI F06, UL LISTED	5PDJM/32D	**32J412**
Keyed Single Cylinder, No Deadbolt	Privacy	ANSI F26, UL LISTED	5PDGL/32D	**32J414**
Keyed Double Cylinder, No Deadbolt	Privacy	ANSI F30, UL LISTED	5PDWW/32D	**32J429**
Keyed Double Cylinder with Deadbolt	Privacy	ANSI F34, UL LISTED	5PDFC/32D	**32J432**

32J406

32J417

Ligature-Resistant Knob Locksets, Grade 1

TownSteel® Architectural Hardware MFG

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"
- Stainless steel finish

Nonhanded lock design impedes ability to attach laces, cords, and clothing to the knob. Heavy-duty lock chassis is constructed from wrought steel. For use in healthcare, detention centers, and other high risk facilities such as behavioral institutions.

Function	Mfr. Model	Item No.
Entry/Office	CRX-K-81-630	**30F426**
Passage	CRX-K-75-630	**30F424**
Privacy	CRX-K-76-630	**30F425**
Classroom	CRX-K-84-630	**30F427**
Storeroom	CRX-K-86-630	**30F428**

30F426

26JF49

SARGENT
ASSA ABLOY

Ligature-Resistant Institutional Mortise Lock, Grade 1

- Backset: 2¾"
- Strike: ANSI
- Door thickness: 1¾" to 1⅞"

Integrated lever and escutcheon combine safety and aesthetics for behavioral health environments. Tapered surfaces on all components. For use on metal and hard wood doors. Easy-to-install with standard mortise prep. Include microshield and antimicrobial coating.

Function	Mfr. Model	DULL STAINLESS STEEL Item No.
Passage	SG-8215BHW-32D RHR	26JF34
Passage	SG-8215BHW-32D LHR	26JF35
Passage	SG-8215BHW-32D RH	26JF36
Passage	SG-8215BHW-32D LH	26JF37
Storeroom	SG-8204BHW-32D RHR	26JF38
Storeroom	SG-8204BHW-32D LHR	26JF39
Storeroom	SG-8204BHW-32D RH	26JF40
Storeroom	SG-8204BHW-32D LH	26JF41
Entrance/Office	SG-8205BHW-32D RHR W INSIDE TURN PIECE	26JF42
Entrance/Office	SG-8205BHW-32D LHR W INSIDE TURN PIECE	26JF43
Entrance/Office	SG-8205BHW-32D RH W INSIDE TURN PIECE	26JF44
Entrance/Office	SG-8205BHW-32D LH W INSIDE TURN PIECE	26JF45
Classroom Intruder	SG-8239BHW-32D RH 2 CYLINDERS	26JF48
Classroom Intruder	SG-8239BHW-32D LH 2 CYLINDERS	26JF49

30F431

TownSteel Architectural Hardware MFG

Ligature-Resistant Mortise Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"

Outside clutching lever allows free rotation and helps protect against lock abuse. Field reversible. 6-pin solid brass cylinder with Schlage C keyway. 2 nickel silver keys per lock.

Finish	Function	Mfr. Model	Item No.
Satin Stainless	Entry/Office	MRX-S-L-04-630	30F431
Satin Stainless	Passage or Closet	MRX-S-L-01-630	30F429
Satin Stainless	Privacy or Bathroom	MRX-S-L-19-630	30F430
Satin Stainless	Classroom	MRX-S-L-05-630	30F432
Satin Stainless	Storeroom or Closet	MRX-S-L-07-630	30F433

32J357

MARKSUSA

Ligature-Resistant Mortise Deadlock Knobs, Grade 1

- Backset: 2¾"
- Strike: 2¾", #4035
- Door thickness: 1¾"

Feature finger indented safety knobs recessed into solid brass through-bolted roses. 6-pin solid brass cylinder with Schlage C keyway. 2 keys per lock, except 32J358 is IC core prepped.

Description	Function	Mfr. Model	SATIN STAINLESS Item No.	SATIN STAINLESS LESS SFIC CYLINDER Item No.
Cylinder and Knob	Privacy	31SS55K/32D	32J357	—
Knob and Knob	Classroom	31SS55S/32D	32J359	—
Cylinder and Knob	Privacy	31SS55RK/32D	—	32J358
Knob and Knob	Classroom	31SS55RS/32D	—	32J360

30F414

TownSteel Architectural Hardware MFG

Ligature-Resistant Cylindrical Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: ASA
- Door thickness: 1¾"

Cylindrical design makes it difficult to attach laces, cords, and lines to the lever set and helps reduce accidents in high-risk areas. Outside clutching lever enables free rotation and protects lock against abuse. 6-pin cylinder with Schlage C keyway. Standard 161 crossbore prep.

Function	Mfr. Model	Item No.
Grade 1, Satin Stainless		
Passage	TRX-L-75-630	30F414
Privacy	TRX-L-76-630	30F415
Classroom	TRX-L-84-630	30F417
Storeroom	TRX-L-86-630	30F418
Privacy	31SS55K/32D	32J357
Classroom	31SS55S/32D	32J359
Privacy	31SS55RK/32D	32J358
Classroom	31SS55RS/32D	32J360
Institutional	180SSK/32D	32J354
Institutional	1SS55RK/32D	32J355

32J354

MARKSUSA

Ligature-Resistant Cylindrical Knob Locksets, Grade 1

- Backset: 2¾"
- Strike: 4⅞", ASA
- Door thickness: 1¾"

Feature finger indented safety knobs with recessed grip. Ergonomically designed integral grooved knob for the elderly and handicapped. 32J354 has 6 pins with 2 keys per lock and is Mark C keyway. 32J355 has 6 pins and is IC core prepped keyway.

Description	Function	Mfr. Model	SATIN STAINLESS STEEL Item No.	SATIN STAINLESS STEEL LESS SFIC CYLINDER Item No.
Cylinder and Knob	Institutional	180SSK/32D	32J354	—
Cylinder and Knob	Institutional	1SS55RK/32D	—	32J355

420L34

TownSteel Architectural Hardware MFG

MRX-A Series Mortise Lock, Grade 1

- Backset: 2 ¾ in
- Strike: ASA
- Door thickness: 1¾ in

Ligature-resistant 5-pt. mortise arch trim makes it difficult to attach ligature points to lock from any direction. Arch handle has single and back-to-back pull function. Ideal for hospitals and behavioral health facilities.

Lockset Finish	Lockset Function	Mfr. Model	Item No.
Satin Stainless Steel	Passage	MRX-A-01-630-RH	420L34
	Privacy	MRX-A-02-630-RH	420L36
	Entrance/Office	MRX-A-04-630-RH	420L38
	Classroom	MRX-A-05-630-RH	420L40

Ligature-Resistant Mortise Knob and Lever Locksets, Grade 1

MARKSUSA®

- Backset: 2¾"
- Strike: 4⅞", ASA curved lip
- Door thickness: 1¾"

Adjustable bevel steel backplate and cover plate with tamperproof screws. Antifriction latch lever. Zinc dichromate finish. 2 keys per lock except 32J468 to 32J472.

Description	Lockset Function	Mfr. Model	Item No.
Keyed Single Cylinder with Deadbolt	Entrance/Office	5SS55A/32D	**32J450**
Keyed Double Cylinder with Deadbolt	Entrance/Office	5SS55AC/32D	**32J463**
Keyless	Passage	5SS55N/32D	**32J468**
Keyless	Privacy	5SS55LF/32D	**32J470**
Keyless	Exit	5SS55EX/32D	**32J472**
Keyed Single Cylinder, No Deadbolt	Storeroom	5SS55EW/32D	**32J443**
Keyed Double Cylinder with Deadbolt	Storeroom	5SS55C/32D	**32J464**
Keyed Single Cylinder, No Deadbolt	Classroom/Privacy	5SS55J/32D	**32J444**
Keyed Double Cylinder, No Deadbolt	Classroom/Privacy	5SS55GG/32D	**32J460**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS55JM/32D	**32J445**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS55GL/32D	**32J447**
Keyed Double Cylinder, No Deadbolt	Privacy	5SS55WW/32D	**32J462**
Dummy Trim	Privacy	5SS55DT/32D	**32J475**
Keyed Single Cylinder with Deadbolt	Entrance	5SS19A/32D	**32J486**
Keyed Double Cylinder with Deadbolt	Entrance	5SS19AC/32D	**32J499**
Keyless	Passage	5SS19N/32D	**32J505**
Keyless	Privacy	5SS19LF/32D	**32J507**
Keyless	Exit	5SS19EX/32D	**32J509**
Keyed Single Cylinder, No Deadbolt	Storeroom	5SS19EW/32D	**32J479**
Keyed Double Cylinder with Deadbolt	Storeroom	5SS19C/32D	**32J501**
Keyed Single Cylinder, No Deadbolt	Classroom	5SS19J/32D	**32J480**
Keyed Double Cylinder, No Deadbolt	Classroom	5SS19GG/32D	**32J496**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS19JM/32D	**32J481**
Keyed Single Cylinder, No Deadbolt	Privacy	5SS19GL/32D	**32J483**
Keyed Double Cylinder, No Deadbolt	Privacy	5SS19WW/32D	**32J498**
Dummy Trim	Passage	5SS19DT/32D	**32J512**

32J450

32J472

32J475

32J480

Mortise Lever Locksets, Grade 1

SCHLAGE

- Backset: 2¾"
- Door thickness: 1¾"

Extra heavy-duty mortise locks designed for facilities requiring extended product life cycles. Ideally suited for educational, healthcare, and government buildings. Equipped with conventional cylinders; A Series is supplied with Rose trim, L Series is supplied with Escutcheon trim. 6-pin solid brass cylinder. C123 keyway, keyed different. 2 nickel silver keys per lock. ¾" stainless steel throw latchbolt. Concealed hardened steel roller pin is resistant to cutting or kicking attacks.

Lockset Function	RHODES STYLE, SATIN CHROME, 06A SERIES Mfr. Model	Item No.	SPARTA STYLE, SATIN CHROME, 17 A SERIES Mfr. Model	Item No.	Mfr. Model	Item No.
With Rose, Grade 1						
Entrance	L9453P 06A 626 C123	**36Z275**	L9453P 17A 626 C123	**36Z277**	—	—
Office	L9050P 06A 626 C123	**36Z261**	L9050P 17A 626 C123	**36Z263**	—	—
Classroom	L9070P 06A 626 C123	**36Z267**	L9070P 17A 626 C123	**36Z269**	—	—
Storeroom	L9080P 06A 626 C123	**36Z271**	L9080P 17A 626 C123	**36Z273**	—	—
Passage		—	L9010 17A 626	**28XX91**	L9010 06A 626	**28XX89**

Function	RHODES STYLE, SATIN CHROME, 06 L SERIES Mfr. Model	Item No.	SPARTA STYLE, SATIN CHROME, 17 L SERIES Mfr. Model	Item No.
With Escutcheon, Grade 1				
Entrance/Office	L9453P 06L 626 C123	**36Z276**	L9453P 17L 626 C123	**36Z278**
Passage	L9010 06L 626	**36Z250**	L9010 17L 626	**36Z252**
Privacy	L9040 06L 626	**36Z256**	L9040 17L 626	**36Z258**
Entrance/Office	L9050P 06L 626 C123	**36Z262**	L9050P 17L 626 C123	**36Z264**
Classroom	L9070P 06L 626 C123	**36Z268**	L9070P 17L 626 C123	**36Z270**
Storeroom	L9080P 06L 626 C123	**36Z272**	L9080P 17L 626 C123	**36Z274**

Rhodes 06

Sparta 17

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Mortise Lever Locksets, Grade 1

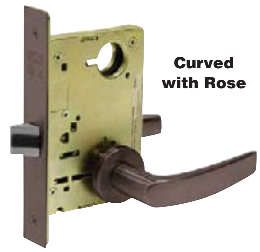
SARGENT
ASSA ABLOY

- Backset: 2¾"
- Strike: 4⅞" x 1¼" curved lip
- Door thickness: 1¾"

1-pc. design holds lock securely in door. Strengthened cylinder retainer with 2-prong grip provides resistance against vandalism and unauthorized entry. Heavy-duty hubs and spring cartridge provide superior strength and extend product life cycle. 12-ga. steel lock body case adds security and is corrosion-resistant. 1-pc. latch, easily reversible without opening case. All locksets have 6-pin solid brass cylinder with LA keyway; keyed different; 2 nickel silver keys per lock except 32J215, 32J216, 32J220, 32J221, 32J225, 32J226, 32J230, and 32J231, which are not keyed.

Style	Lockset Function	SATIN CHROME Mfr. Model	Item No.	OIL-RUBBED BRONZE Mfr. Model	Item No.
8200 Right Angle	Entrance	8205 LNL 26D	**32J213**	8205 LNL 10B	**32J223**
	Passage	8215 LNL 26D	**32J215**	8215 LNL 10B	**32J225**
	Privacy	8265 LNL 26D	**32J216**	8265 LNL 10B	**32J226**
	Classroom	8237 LNL 26D	**32J214**	8237 LNL 10B	**32J224**
	Storeroom	8204 LNL 26D	**32J212**	8204 LNL 10B	**32J222**
8200 Curved	Entrance	8205 LNB 26D	**32J218**	—	—
	Passage	8215 LNB 26D	**32J220**	—	—
	Privacy	8265 LNB 26D	**32J221**	—	—
	Classroom	8237 LNB 26D	**32J219**	—	—
	Storeroom	8204 LNB 26D	**32J217**	—	—
Curved with Rose	Entrance	—	—	8205 LNB 10B	**32J228**
	Passage	—	—	8215 LNB 10B	**32J230**
	Privacy	—	—	8265 LNB 10B	**32J231**
	Classroom	—	—	8237 LNB 10B	**32J229**
	Storeroom	—	—	8204 LNB 10B	**32J227**

Right Angle with Rose



Curved with Rose

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Lustra with Rose

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Newport with Rose

Lustra with Escutcheon

Newport with Escutcheon

Corbin Russwin
ASSA ABLOY

Mortise Lever Locksets, Grade 1

- Backset: 2¾"
- Strike: 4⅞" x 1¼" curved lip
- Door thickness: 1¾"

2-pc. reversible latchbolt with antifriction insert. Heavy-duty ¾" throw-latchbolt with stainless steel insert allows secure latching. Lockset can be re-handed without disassembling the lock case. Durable heavy gauge steel internal parts increase strength. All locksets have 6-pin solid brass cylinder with LA keyway; keyed different; 2 nickel silver keys per lock except 32J264, 32J265, 32J270, 32J271, 32J276, 32J277, 32J282 and 32J283.

		ROSE			ESCUTCHEON		
Description	Lockset Function	Finish	Mfr. Model	Item No.	Finish	Mfr. Model	Item No.
Lustra	Entrance	Satin Stainless Steel	ML2051 LWA630	**32J266**	Satin Chrome	ML2051 LWM 626	**32J278**
Lustra	Passage	Satin Stainless Steel	ML2010 LWA 630	**32J264**	Satin Chrome	ML2010 LWM 626	**32J276**
Lustra	Privacy	Satin Stainless Steel	ML2030 LWA 630	**32J265**	Satin Chrome	ML2030 LWM 626	**32J277**
Lustra	Classroom	Satin Stainless Steel	ML2055 LWA 630	**32J268**	Satin Chrome	ML2055 LWM 626	**32J280**
Lustra	Classroom	Satin Stainless Steel	ML2052 LWA 630	**32J267**	Satin Chrome	ML2052 LWM 626	**32J279**
Lustra	Storeroom	Satin Stainless Steel	ML2057 LWA 630	**32J269**	Satin Chrome	ML2057 LWM 626	**32J281**
Newport	Entrance	Satin Chrome	ML2051 NSA 626	**32J272**	Satin Chrome	ML2051 NSM 626	**32J284**
Newport	Passage	Satin Chrome	ML2010 NSA 626	**32J270**	Satin Chrome	ML2010 NSM 626	**32J282**
Newport	Privacy	Satin Chrome	ML2030 NSA 626	**32J271**	Satin Chrome	ML2030 NSM 626	**32J283**
Newport	Classroom	Satin Chrome	ML2055 NSA 626	**32J274**	Satin Chrome	ML2055 NSM 626	**32J286**
Newport	Classroom	Satin Chrome	ML2052 NSA 626	**32J273**	Satin Chrome	ML2052 NSM 626	**32J285**
Newport	Storeroom	Satin Chrome	ML2057 NSA 626	**32J275**	Satin Chrome	ML2057 NSM 626	**32J287**

8800 Series, Escutcheon Plate

Interconnected Lockset, Rose

Yale

Mortise Lever Locksets, Grade 1

		DULL CHROME		DULL CHROME, MICROSHIELD ANTIMICROBIAL	
Style	Lockset Function	Mfr. Model	Item No.	Mfr. Model	Item No.
8800FL Series, Grade 1, Escutcheon Plate					
8800FL Augusta	Entrance	AUCN8807FL x 626	**1ABG3**	AUCN8807FL x 626 x YMS	**5VTA4**
8800FL Augusta	Entrance	AUCN8867FL x 626	**4ECF9**	AUCN8867FL x 626 x YMS	**5VTA5**
8800FL Augusta	Passage	AUCN8801FL x 626	**4ECF7**	AUCN8801FL x 626 x YMS	**5VTA1**
8800FL Augusta	Privacy	AUCN8802FL x 626	**4ECF8**	AUCN8802FL x 626 x YMS	**5VTA2**
8800FL Augusta	Classroom	AUCN88182FL x 626	**1ABG6**	AUCN88182FL x 626 x YMS	**5VTA6**
8800FL Augusta	Storeroom	AUCN8805FLX626	**1ABG5**	AUCN8805FL x 626 x YMS	**5VTA3**
8800FL Pacific Beach	Entrance	PBCN8807FLX626	**4ECN7**	PBCN8807FL x 626 x YMS	**5VTC6**
8800FL Pacific Beach	Entrance	PBCN8867-FLX626	**4ECN8**	—	—
8800FL Pacific Beach	Passage	PBCN8801FL x 626	**4ECN4**	—	—
8800FL Pacific Beach	Privacy	PBCN8802FL x 626	**4ECN5**	—	—
8800FL Pacific Beach	Classroom	PBCN88182FL x 626	**4ECN9**	PBCN88182FL x 626 x YMS	**5VTC8**
8800FL Pacific Beach	Storeroom	PBCN8805FL x 626	**4ECN6**	PBCN8805FL x 626 x YMS	**5VTC5**
8800FL Series, Grade 1, Rose					
8800FL Augusta	Storeroom	AUR8805FL x 626	**4ECG9**	AUR8805FL x 626 x YMS	**5VTA9**
8800FL Augusta	Entrance	AUR8807FL x 626	**4ECH1**	AUR8807FL 626 x YMS	**5VTC0**
8800FL Augusta	Entrance	AUR8867FL x 626	**4ECH2**	—	—
8800FL Augusta	Passage	AUR8801FL x 626	**4ECG7**	AUR8801FL x 626 x YMS	**5VTA7**
8800FL Augusta	Privacy	AUR8802FL x 626	**4ECG8**	AUR8802FL x 626 x YMS	**5VTA8**
8800FL Augusta	Classroom	AUR88182FL x 626	**4ECH3**	AUR88182FL x 626 x YMS	**5VTC2**
8800FL Pacific Beach	Entrance	PBR8807FL x 626	**4ECR1**	PBR8807FL x 626 x YMS	**5VTD2**
8800FL Pacific Beach	Entrance	PBR8867FL x 626	**4ECR2**	PBR8867FL x 626 x YMS	**5VTD3**
8800FL Pacific Beach	Passage	PBR8801FL x 626	**4ECP7**	PBR8801FL x 626 x YMS	**5VTC9**
8800FL Pacific Beach	Privacy	PBR8802FL x 626	**4ECP8**	PBR8802FL x 626 x YMS	**5VTD0**
8800FL Pacific Beach	Classroom	PBR88182FL x 626	**4ECR3**	PBR88182FL x 626 x YMS	**5VTD4**
8800FL Pacific Beach	Storeroom	PBR8805FL x 626	**4ECP9**	—	—
Interconnected Locksets, Satin Chrome					
Interconnected Lockset	Passage	YH852 x KW x RA CR X US26D	**52WN29**	—	—

SCHLAGE

Residential/Commercial Knob Locksets, Grade 1 and 2

6-pin solid brass cylinder with C123 keyway. Keyed different. Thru-bolted through the door. Double compression springs provide consistent latch retraction. 2 nickel silver keys per lock.

D Series, Grade 1—Heavy-duty cylindrical locks are designed for institutional and industrial applications.
- Latch: 1⅛" x 2¼"
- Strike: 1¼" x 4⅞"
- Door range: 1⅜" to 2"

A Series, Grade 2—Standard-duty cylindrical locks for commercial and residential applications.
- Latch: 1" x 2¼"
- Strike: T-Strike Box
- Door range: 1⅜" to 1⅞"

Orbit

Plymouth

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Style	Function	SATIN CHROME Mfr. Model	Item No.
D Orbit	Entry	D53PD ORB 626 C123	**36Z156**
D Orbit	Passage	D10S ORB 626	**36Z104**
D Orbit	Privacy	D40S ORB 626	**36Z147**
D Orbit	Classroom	D70PD ORB 626 C123	**36Z165**
D Orbit	Storeroom	D80PD ORB 626 C123	**36Z168**
D Plymouth	Storeroom	D80PD PLY 626 C123	**36Z171**
A Orbit	Entrance	A53PD ORB 626 C123	**36Z017**
A Orbit	Passage	A10S ORB 626	**36Y996**
A Orbit	Storeroom	A80PD ORB 626 C123	**36Z023**
A Plymouth	Entrance	A53PD PLY 626 C123	**36Z020**
A Plymouth	Passage	A10S PLY 626	**36Y999**

Yale

Knob Locksets, Grade 1

- Ball style
- Backset: 2¾"
- Strike: 1¼" curved lip
- Door thickness: 5400CK Series; 1⅜" to 2"; 4600 Series is 1⅜" to 1¾"

Nonhanded, field reversible. 5400 Series has zinc dichromate plating that resists corrosion and is keyed different.

5400 Series

Function	BRIGHT BRASS Mfr. Model	Item No.	DULL STAINLESS Mfr. Model	Item No.
5400CK Series, Grade 1				
Passage	CA5401CK x 605	**48LW48**	CA5401CK x 626	**48LW49**
Privacy	CA5402CK x 605	**48LW50**	CA5402CK x 630	**48LW51**
Storeroom	CA5405CK x 605	**48LW52**	CA5405CK x 630	**48LW53**
Entrance/Office	CA5407CK x 605	**48LW54**	CA5407CK x 630	**48LW55**
Classroom/Privacy	CA5408CK x 605	**48LW56**	CA5408CK630	**48LW57**

BAC Ball

BCC Biscuit

Ball

For keyed alike or master keying, please call 1-800-GRAINGER (472-4643).

Master Lock

Knob and Deadbolt Combos, Grade 3

- Backset: 2⅜" or 2¾"
- Door thickness: 1⅜" to 1¾"

Lockset and deadbolt are keyed alike.

Style	Function	Brand	POLISHED BRASS Item No.	SATIN NICKEL Item No.
Grade 3 Residential				
BAC Ball	Keyed Entry	Master Lock	**33M256**	—
BCC Biscuit	Security	Master Lock	—	**33M261**
Ball	Combination Entrance	—	**1TPT5**	—

7500 Series, Closer Plus

8300 Series, Closer Plus

7500 Series, Standard Hold-Open

7500 Series, Unitrol

1600 Series, Standard

Norton
ASSA ABLOY

Hydraulic Door Closers

Rack and pinion closers have a lightweight aluminum alloy body. Feature adjustments for closing, sweep and latch speed, and back-check. Closures with retrofit plates allow 7500 Series door closers to replace 4040 Series door closers without modifying the existing hole pattern in the door. The plates will work with regular and parallel arm applications.

EXTRA HEAVY-DUTY, 410 SERIES

Nonhanded feature self-closes the door each time the door is opened. Nonhanded Hold-Open closers are not permitted on fire doors.

HEAVY-DUTY, 7500 SERIES

Feature larger closer body and springs, plus advanced hydraulic flow for greater door control. Adjust for door sizes from 1 to 6.

Standard Arm Type—Suitable for doors with low exposure to wind and abuse. For regular, top jamb, and parallel arm installation.

Slide Track Arm Type—Single-lever arm allows components to be stacked to reduce projection and obtrusive arm angles. Pull or Push models depend on the side of the door where the closer is mounted.

CloserPlus Arm Type—Heavy-gauge arm material, arm pivot/elbow with larger bearings, and positive stop help prevent door from opening too far. For doors with moderate exposure to wind and abuse. Parallel arm mount only.

Unitrol Arm Type—Have same features as CloserPlus, but include a spring stop that absorbs 30 lb. of force. Highly controlled stop. Suitable for doors with high exposure to winds and abuse. Parallel arm mount only.

HEAVY-DUTY, 7570 SERIES

This series incorporates the 7500 Series closer with a security cover. Security arm joints are riveted to prevent disassembly. Torx drive screws and security pin are included. Closers are handed with Unitrol arms.

STANDARD-DUTY, 8500, 8300, 210, 1600 AND 160 SERIES

Closers have a medium-size body and springs for effective door control. 8300 Series has a slimline design that requires less mounting space than other closers. 45TY68 and 45TY69 size 4 door closers.

Arm Type	Housing Length	Housing Width	Housing Height	▶CHOOSE: Finish	Max. Door Opening	NONHANDED Item No.	NONHANDED HOLD-OPEN Item No.
Extra Heavy-Duty, 410 Series							
Delayed Action	12 ¼ in	2¼ in	2 ¾ in	Aluminum Painted	180°	**52CC51**	—
Delayed Action	12 ¼ in	2¼ in	2 ¾ in	Dark Bronze Painted	180°	**52CC52**	—
Parallel	12 ¼ in	2¼ in	3½ in	Aluminum Painted	85° to 130°	**49VT63**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT67**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT69**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT71**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT73**	—
Parallel	12 ¼ in	2¼ in	3½ in	Dark Bronze Painted	85° to 130°	**49VT68**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT70**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT72**	—
Parallel	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT74**	—
Standard	12 ¼ in	2¼ in	3½ in	Aluminum Painted	85° to 130°	**49VT65**	—
Standard	12 ¼ in	2¼ in	3½ in	Dark Bronze Painted	85° to 130°	**49VT64**	—
Standard	12 ¼ in	2¼ in	3½ in		85° to 130°	**49VT66**	—
Heavy-Duty, 7500 Series							
Closer Plus	13 ⅝ in	2⅛ in	3⅞ in	Aluminum Painted, Dark Bronze Painted	180°	**D1078**	**D1084**
Closer Plus with Retrofit Plate	13 ⅝ in	2⅛ in	3⅞ in		180°	—	**G6744**
Hinge (Pull) Side, Slide Track	13 ⅝ in	2⅛ in	3⅞ in	Aluminum, Dark Bronze Painted	110°	**D1076**	**D1082**
Slide Track, Stop (Push) Side	13 ⅝ in	2⅛ in	3⅞ in	Aluminum Painted, Dark Bronze Painted	110°	**D1077**	**D1083**
Standard	13 ⅝ in	2⅛ in	3⅞ in		180°	**D1075**	**D1081**
Unitrol	13 ⅝ in	2⅛ in	3⅞ in		180°	**D1079**	**D1085**
Heavy-Duty, 7570 Series							
Unitrol	13 ⅝ in	2⅛ in	3⅞ in	Aluminum Painted, Dark Bronze Painted	110°	—	**D1118**
Standard-Duty, Full Cover, 210 Series							
Hold Open	13 in	2⅞ in	2⅛ in	Aluminum Painted	180°	**45TY76**	—
Hold Open	13 in	2⅞ in	2⅛ in		180°	**45TY80**	—
Hold Open	13 in	2⅞ in	2⅛ in	Dark Bronze Painted	180°	**45TY77**	—
Hold Open	13 in	2⅞ in	2⅛ in		180°	**45TY81**	—
Non Hold-Open	13 in	2⅞ in	2⅛ in	Aluminum Painted	180°	**45TY74**	—
Non Hold-Open	13 in	2⅞ in	2⅛ in		180°	**45TY78**	—
Non Hold-Open	13 in	2⅞ in	2⅛ in	Dark Bronze Painted	180°	**45TY75**	—
Non Hold-Open	13 in	2⅞ in	2⅛ in		180°	**45TY79**	—
Standard-Duty, Full Cover, 8500 Series							
Closer Plus	13 in	2⅛ in	2⅞ in	Aluminum, Dark Bronze Painted	110°	**D1089**	**D1095**
Hinge (Pull) Side, Slide Track	13 in	2⅛ in	2⅞ in	Aluminum Painted, Dark Bronze Painted	110°	**D1087**	**D1093**
Slide Track, Stop (Push) Side	13 in	2⅛ in	2⅞ in	Aluminum, Dark Bronze Painted	110°	**D1088**	**D1094**
Standard	13 in	2⅛ in	2½ in		180°	**D1086**	**D1092**
Unitrol	13 in	2⅛ in	2⅞ in		110°	**D1091**	**D1096**
Standard-Duty, No Cover, 1600 Series							
ADA, Barrier Free, Sizes 1 to 6, Standard	9 ¾ in	2⅞ in	2⅝ in	Aluminum Painted, Dark Bronze Painted	180°	**D1108**	—
Closer Plus	9 ¾ in	2⅞ in	2⅝ in		110°	**D1111**	**D1113**
Hold Open	9 ¾ in	2⅞ in	2⅝ in		140°	—	**J2240**
Sizes 1 to 6, Standard	9 ¾ in	2⅞ in	2⅝ in		180°	**D1109**	—
Unitrol	9 ¾ in	2⅞ in	2⅝ in		110°	**D1112**	**D1114**
Standard-Duty, No Cover, 160 Series							
Hold Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in	Aluminum Painted	180°	**45TY70**	—
Hold Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in	Dark Bronze Painted	180°	**45TY71**	—
Non Hold-Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in	Aluminum Painted	180°	**45TY66**	—
Non Hold-Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in		180°	**45TY68**	—
Non Hold-Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in	Dark Bronze Painted	180°	**45TY67**	—
Non Hold-Open	9 ¹⁄₁₆ in	2⅝ in	1⅞ in		180°	**45TY69**	—
Standard-Duty, Slim Cover, 8300 Series							
Closer Plus	13 in	2¾ in	2½ in	Aluminum, Dark Bronze Painted	110°	**D1101**	**D1106**
Hinge (Pull) Side, Slide Track	13 in	2⅛ in	2⅞ in		110°	**D1098**	**D1104**
Slide Track, Stop (Push) Side	13 in	2⅛ in	2⅞ in	Aluminum Painted, Dark Bronze Painted	110°	**D1099**	**D1105**
Standard	13 in	2⅛ in	2½ in		180°	**D1097**	**D1103**
Unitrol	13 in	2⅛ in	2⅞ in	Aluminum, Dark Bronze Painted	110°	**D1102**	**D1107**

Dark Bronze Painted
D1123

Pot-Belly Door Closers

Norton
ASSA ABLOY

Original style closers for a retro-look. Include spring power adjustment, backcheck cushioning, and sweep/latch regulating valve. Non hold-open feature self-closes the door each time the door is opened.

Arm Type	Spring Size	Closer Mounting Style	Housing Length	Housing Width	Housing Height	▶CHOOSE: Finish	▶CHOOSE: Hand	Item No.
Standard-Duty 78-B/F Series								
Regular	2-4	Regular	7 ½ in	3½"	5 in	Aluminum Painted, Dark Bronze Painted	Left Hand, Right Hand	**D1123**
Regular	5 & 6	Regular	7 ½ in	3½"	5 in	Aluminum Painted, Dark Bronze Painted	Right Hand	**D1124**

Hydraulic Door Closers, Grade 1 and 3

- Interior/exterior installation
- Non-handed
- Aluminum closer body with plastic cover
- Full-surface mounting style

3100 Series Commercial Grade—Traditional style door control for use on commercial door applications. Common 9¹⁄₁₆" mounting hole pattern permits simple installation on new or retrofit applications.

5500 Series Architectural Grade—Can be adjusted to comply with barrier-free opening force restrictions. Common 12" x ¾" mounting hole pattern for simple installation on new or retrofit applications.

7100 Series Heavy-Duty Closer—Constructed of high-strength cast-iron body and forged-steel arm assembly. Recommended for high-frequency, abusive installations.

Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	Finish	Mfr. Model	Item No.
3100 Series							
Door Closer - Commercial Doors							
Parallel	9 ¾ in	2"	1⅞ in	180°	Natural	3101 BC PA 689	**45CT70**
Parallel/ Hold Open	9 ¾ in	2"	1⅞ in	180°	Natural	3101 BC PA HO 689	**45CT71**
Door Saver	9 ¾ in	2"	1⅞ in	110°	Natural	3101 BC DS 689	**45CT72**
Door Saver/ Hold Open	9 ¾ in	2"	1⅞ in	110°	Natural	3101 BC DS HO 689	**45CT73**
Cush, Spring	9 ¾ in	2"	1⅞ in	180°	Natural	3101 BC SCS 689	**45CT74**
Door closer - Interior Doors							
Parallel	9 1⁄16 in	1⅞"	1⅞ in	180°	Natural	3100 BCPAHO 689	**45NA32**
Door Saver	9 1⁄16 in	1⅞"	1⅞ in	110°	Natural	3100 BCDS 689	**45NA33**
Parallel	9 1⁄16 in	1⅞"	1⅞ in	110°	Natural	3100 BCDSHO 689	**45NA34**
Parallel	9 1⁄16 in	1⅞"	1⅞ in	110°	Natural	3100 BC SCS 689	**45NA35**
5500 Series							
Door Closer - Commercial Doors							
Parallel/ Hold Open	13 in	2"	2 in	180°	Natural	5501 BC PA HO 689	**45CT76**
Door Saver	13 in	2"	1 13⁄16 in	110°	Natural	5501 BC DS 689	**45CT77**
Door Saver/ Hold Open	13 in	2"	2 in	110°	Natural	5501 BC DS HO 689	**45CT78**
Cush, Spring	13 in	2"	2 in	105°	Natural	5501 BC SCS 689	**45CT79**

Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	Finish	Mfr. Model	Item No.
7100 Series							
Parallel/ Hold Open	12 ¼ in	2¼"	3½ in	180°	Natural	7101 BC PA HO 689	**45CT81**
Door Saver	12 ¼ in	2¼"	3½ in	110°	Natural	7101 BC DS 689	**45CT82**
Door Saver/ Hold Open	12 ¼ in	2¼"	3½ in	110°	Natural	7101 BC DS HO 689	**45CT83**
Cush, Spring	12 in	2"	3½ in	110°	Natural	7101 BC SCS 689	**45CT84**
Delayed Action	12 ¼ in	2¼"	3½ in	180°	Natural	7141 DA BC PA	**45CT85**
Delayed Action	12 ¼ in	2¼"	3½ in	180°	Natural	7141 DA DS	**45CT86**
Door Closer - Interior and Exterior Doors, Reversible							
Regular	12 ¼ in	2⅛"	3¾ in	180°	Natural	5TUN6	**5TUN6**
Regular	9 1⁄16 in	3⅛"	¾ in	180°	Natural	5TUN9	**5TUN9**
Regular	13 in	2¼"	¾ in	180°	Natural	5TUP4	**5TUP4**
Regular	6 ½ in	2¾"	¾ in	90°	Natural	5TUP2	**5TUP2**
Regular	12 ¼ in	2⅛"	3¾ in	180°	Dark Bronze Powder Coat	5TUN7	**5TUN7**
Regular	9 1⁄16 in	3⅛"	¾ in	90°	Dark Bronze Powder Coat	5TUN8	**5TUN8**
Regular	9 1⁄16 in	3⅛"	¾ in	90°	Dark Bronze Powder Coat	5TUP0	**5TUP0**
Regular	12 in	2¼"	¾ in	180°	Dark Bronze Powder Coat	5TUP1	**5TUP1**
Regular	6 ½ in	2¾"	¾ in	90°	Dark Bronze Powder Coat	5TUP3	**5TUP3**
Regular	9 1⁄16 in	3⅛"	¾ in	180°	Dark Aluminum Powder Coat	5TUP5	**5TUP5**

Door Closers

Corbin Russwin
ASSA ABLOY

Aluminum

Bronze

Rugged design for high-traffic and high-abuse areas. Captured valves help make closers vandal- and tamper-resistant. Universal and Universal Hold-Open models include brackets and arms to install closer in top jamb, standard, and parallel applications.

Standard Arm—Allows inside mounting of closer on out-swinging doors. Arm does not project from the opening.

Hold-Open Arm—Combines regular hold-open arm with the parallel arm mounting bracket.

Description	Housing Length	Housing Width	Housing Height	Max. Door Opening	Mfr. Model	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.
Standard Arm							
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC3210	**21T027**	**21T028**
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC6210	**21T031**	**21T032**
Universal	12 in	2¼"	4 7⁄16 in	Up to 180°	DC8210	**21T035**	**21T036**
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC6210 x M101B	**21T039**	**21T040**
Parallel, Heavy-Duty Backstop	11 ⅝ in	2¾"	3 in	85° to 110°	DC6210 x M101C x A4	**21T043**	**21T044**
Parallel, Spring Stop	11 ⅝ in	2¾"	3 in	85° to 110°	DC6210 x M101B x A11 x 33-41	**21T047**	**21T048**
Parallel with Retrofit Kit	12 in	2¼"	4 7⁄16 in	Up to 180°	DC8210 x M101F	**21T051**	**21T052**
Parallel, Heavy-Duty Backstop with Retrofit Kit	12 in	2¼"	4 7⁄16 in	85° to 110°	DC8210 x M101F x A4	**21T055**	**21T056**
Unitrol with Retrofit Kit	12 in	2¼"	4 7⁄16 in	85° to 130°	DC8210 x M101F x A11 x 33-41	**21T059**	**21T060**
Hold-Open Arm							
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC3210H	**21T029**	**21T030**
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC6210H	**21T033**	**21T034**
Universal	12 in	2¼"	4 7⁄16 in	Up to 180°	DC8210H	**21T037**	**21T038**
Universal	11 ⅝ in	2¾"	3 in	Up to 180°	DC6210 x M101B x A1	**21T041**	**21T042**
Parallel, Heavy-Duty Backstop	11 ⅝ in	2¾"	3 in	85° to 110°	DC6210 x M101C x A5	**21T045**	**21T046**
Parallel, Spring Stop Heavy-Duty	11 ⅝ in	2¾"	3 in	85° to 110°	DC6210 x M101B x A12 x 33-41	**21T049**	**21T050**
Parallel with Retrofit Kit	12 in	2¼"	4 7⁄16 in	Up to 180°	DC8210 x M101F x A1	**21T053**	**21T054**
Parallel, Heavy-Duty Backstop with Retrofit Kit	12 in	2¼"	4 7⁄16 in	Up to 180°	DC8210 x M101F x A5	**21T057**	**21T058**
Unitrol with Retrofit Kit	12 in	2¼"	4 7⁄16 in	85° to 110°	DC8210 x M101F x A12 x 33-41	**21T061**	**21T062**

Powerglide Door Closers

SARGENT
ASSA ABLOY

Standard Arm Aluminum

Hold-Open Arm Dark Bronze

1431 Series is suitable for interior or exterior doors in commercial settings.

Universal and Universal Hold-Open models include brackets and arms to install closer in top jamb, standard, and parallel applications.

281 Series is rugged cast-iron construction suitable for interior or exterior doors in high-use applications.

351 Series has aluminum body and is for use with doors exposed to strong drafts and winds.

Standard Arm—Mounts on the pull side of door with the arm mounted on the face of the frame.

Hold-Open Arm—Friction-type holder is easy to adjust and can hold door open from 80° to 180°.

Heavy-Duty Parallel Arm—Closer is suitable for narrower door frames, mounts on the push side of the door, and does not project into the room. For use in abusive and high-traffic areas.

Description	Housing Length	Housing Width	Housing Height	Max. Door Opening	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.
1431 Series						
Standard Arm						
Universal	12 in	2¼"	3⅜ in	120° to 180°	**21T023**	**21T024**
Hold-Open Arm						
Universal	12 in	2¼"	3⅜ in	90° to 160°	**21T025**	**21T026**
281 Series						
Standard Arm						
Universal	11 ¾ in	2 3⁄16"	4⅜ in	120° to 180°	**21T009**	**21T010**
Hold-Open Arm						
Universal	11 ¾ in	2 3⁄16"	4⅜ in	90° to 160°	**21T011**	**21T012**
351 Series						
Standard Arm						
Universal with Retrofit Plate	13 in	2 3⁄16"	4 in	120° to 180°	**21T017**	**21T018**
Universal	13 in	2 3⁄16"	4 in	120° to 180°	**21T013**	**21T014**
Hold-Open Arm						
Universal with Retrofit Plate	13 in	2 3⁄16"	4 in	90° to 160°	**21T019**	**21T020**
Universal	13 in	2 3⁄16"	4 in	90° to 160°	**21T015**	**21T016**
Heavy-Duty Parallel Arm						
Parallel	13 in	2 3⁄16"	4 in	90° to 160°	**21T021**	**21T022**

Hinge (Pull) Side
5EU12

Stop (Push) Side
5EU13

Powered Door Operators

Norton ASSA ABLOY

- Nonhanded
- Acceptable for fire and smoke barrier doors

Low-energy operators function as standard spring-force closers during close cycles, when door is opened manually, or if power is lost or turned off. Hold-open time is adjustable from 0 to 30 sec. If door is obstructed, motor stops and the door closes with standard closer. Include 2 radio-frequency wall switches powered by 9V batteries, 6" x 6" face plates with Americans with Disabilities (ADA) logo, and built-in 1.1A power supply. Connect to wall outlet. Rated 120VAC, 60 Hz.

Ideal for doctors' offices, retirement facilities, schools, churches, and other applications where noise may be a concern.

Arm Type	Housing Length	Housing Width	Housing Height	Max. Door Opening	ALUMINUM PAINTED Item No.	DARK BRONZE PAINTED Item No.	BLACK PAINTED Item No.
Heavy-Duty, 5700 Series							
Hinge (Pull) Side, Slide Track - Includes Radio Frequency Wall Switches	29 in	4⅝"	5¼ in	180°	**5EU12**	**4AVD2**	—
Slide Track, Stop (Push) Side - Includes Radio Frequency Wall Switches	29 in	4⅝"	5¼ in	180°	**5EU13**	—	—
Double Lever - Includes Radio Frequency Wall Switches	29 in	4⅝"	5¼ in	180°	—	**4AVD3**	—
Heavy-Duty, 5800 Series							
Parallel, Regular - Includes Door Opening Solution, Narrow Stile Push Plates	8 in	2½"	9 in	95°	—	—	**48ZD73**
Parallel, Regular - Includes 3 in Square Push Plates, Door Opening Solution	8 in	2½"	9 in	95°	—	—	**48ZD74**

D8973

Door Closers

Yale

Rack and pinion closers have a lightweight aluminum alloy body. Feature adjustments for closing, sweep, latch, speed, and backcheck. Closers have a standard arm, which is suitable for doors with low exposure to wind and abuse. For regular, top jamb, and parallel arm installation.

Heavy-Duty, 2700 Series—Features larger closer body and spring. Adjust for door sizes 1 to 6 (Grade 1).

Standard-Duty, 1100 Series—Medium-size body and spring for effective door control. Adjust to door sizes 1 to 4 (Grade 1) or fixed at door size.

Standard, Standard Delayed-Action, and Extra Heavy-Duty 5800 Series—Extra Heavy-Duty feature cast iron construction that increases body life and reduces leakage. Adjustable backcheck, closing speed and latching speed. Tri-style packed regular and parallel arm and top jamb mounting.

D8974

Description	Housing Length	Housing Width	Housing Height	▶CHOOSE: Color	Max. Door Opening	NONHANDED Item No.	NONHANDED, HOLD-OPEN Item No.
Heavy-Duty, Full Cover, 2700 Series							
Standard, Sizes 1 to 6	13 in	2¾"	2½ in	Aluminum, Dark Bronze	180°	**D8978**	—
Standard-Duty, 1100 Series							
Standard, Sizes 1 to 4	9 1/16 in	2⅝"	1⅞ in	Aluminum, Dark Bronze	180°	**D8972**	**D8974**
Standard, Sizes 1 to 4	9 1/16 in	2⅝"	1⅞ in	Aluminum	180°	**D8973**	—
Standard, Sizes 1 to 4	9 ¾ in	2⅝"	1 ¾ in	Dark Bronze	180°	**D8973**	—
Standard-Duty, 5800 Series							
Adjustable, Sizes 1 to 6	12 ¼ in	2¼"	3½ in	Aluminum, Dark Bronze	85° to 130°	**G6741**	—
Adjustable, Sizes 1 to 6	12 ¼ in	2¼"	3½ in			—	**G6742**
Standard-Duty Delayed Action, 5800 Series							
Adjustable, Sizes 1 to 6	12 ¼ in	2¼"	3½ in	Aluminum	130°	—	**48GG10**
Adjustable, Sizes 1 to 6	12 ¼ in	2¼"	3½ in	Dark Bronze	130°	—	**48GG11**
Extra Heavy-Duty, 5800 Series							
Adjustable, Sizes 1 to 6	12 ¼ in	2¼"	3½ in	Aluminum, Dark Bronze		**G6745**	**G6746**

2WHF8 (shown with optional cover 2WHL8)

5PHG9

STANLEY

Hydraulic Door Closers

Fully adjustable from 1 to 6. Feature delayed action and back check. Include wood and machine screws, sex nuts, and self-tapping screws. Aluminum finish.

Standard-Duty—For interior doors to 4½-ft. wide and exterior doors to 4-ft wide. Door closer cover not included, order 2WHL8 separately.

- Cast aluminum

Heavy-Duty and Extra Heavy-Duty—Plastic cover included. Door closers have all-weather fluid for optimal performance in harsh climates.

- Cast iron

Description	Housing Height	Housing Width	Housing Length	Mfr. Model	Item No.
Standard-Duty					
Non Hold-Open Arm, Tri-Packed, Grade 1	2⅝ in	3 3/16"	9 13/16 in	QDC311NC689	**2WHF9**
Hold-Open Arm, Grade 1	2⅝ in	3 3/16"	9 13/16 in	QDC312NC689	**2WHG2**
Dead-Stop Cushion Non Hold-Open Arm, Grade 1	2⅝ in	3 3/16"	9 13/16 in	QDC313NC689	**2WHG6**
Dead-Stop Cushion Hold-Open Arm, Grade 1	2⅝ in	3 3/16"	9 13/16 in	QDC314NC689	**2WHG5**
Heavy-Duty					
Non Hold-Open Arm, Tri-Packed, Grade 1	2 1/16 in	3 3/16"	12 in	QDC211F689	**2WHF8**
Hold-Open Arm, Grade 1	2 1/16 in	3 3/16"	12 in	QDC212F689	**2WHG1**
Dead-Stop Cushion Non Hold-Open Arm, Grade 1	2 1/16 in	3 3/16"	12 in	QDC213F689	**2WHG4**
Tri Pack, Non Hold Open, Parallel, Top Jamb and Regular, Adjustable 1 to 6	2 1/16 in	12"	12 in	QDC211S689	**45CK42**
Extra Duty Arm, Non Hold Open, Top Frame, Adjustable 1 to 6	3½ in	12 3/16"	12 3/16 in	QDC115R689	**45CK80**
Extra Heavy-Duty					
Tri-Packed Arm, Big Body, Grade 1	3½ in	2¼"	12 3/16 in	QDC111R689	**5PHG9**
Accessories					
Door Closer Cover	—	—	—	15918 CVR FULL SZ QDC300 689	**2WHL8**
Door Closer Door Closer Sex Nuts	—	—	—	15928 LPP SN 689	**2WHL7**

H4241

H4243

Door Closers

LCN®

- Max. door opening up to 180°
- Includes self drilling screws and hardware

Closers have cast iron cylinders, forged steel arms, all-weather fluids, and double heat-treated pinions that help provide long life cycle. Powder-coated finish. Self-tapping/self-reaming screws, and peel-and-stick templates help ensure accurate installation.

1261 Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Does not include cover.

1461 Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 5 ft. and exterior doors to 4 ft.

4011 Series Closers are handed and mounted hinge side; specify left or right handed. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Tested for 10,000,000 cycles without failure.

4040XP Series Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable for interior doors to 5 ft. and exterior doors to 4 ft. Tested for 10,000,000 cycles without failure.

4111 Series Closers are handed and mounted parallel arm; specify left or right handed. Nonsized cylinder is adjustable for interior doors to 4 ft. 6" and exterior doors to 3 ft. 6". Tested for 10,000,000 cycles without failure.

▶CHOOSE: Finish	▶CHOOSE: Door Handing	Item No.
LCN 1261		
Sprayed Aluminum, Dark Bronze Powder Coat	Non-Handed	**H4241**
	Non-Handed	**H4242**
LCN 1461		
Sprayed Aluminum, Dark Bronze Powder Coat	Non-Handed	**H4243**
	Non-Handed	**H4244**
	Non-Handed	**H4245**
LCN 4011		
Sprayed Aluminum	Left Hand, Right Hand	**H4246**
Dark Bronze Powder Coat	Left Hand, Right Hand	**H4247**
	Left Hand, Right Hand	**H4249**
LCN 4040		
Dark Bronze Powder Coat	Non-Handed	**22RC23**
LCN 4111		
Sprayed Aluminum, Dark Bronze Powder Coat	Left Hand	**H4260**
	Right Hand	**H4261**

H4262

Door Closers

FALCON. LCN®

- Max. door opening up to 180°
- Includes self drilling screws and hardware
- Nonhanded

Closers have cast aluminum cylinders, stamped steel arms, all-weather fluids, and heat-treated pinions. Adjustable for general speed, latch speed, and backcheck. Closers are nonhanded and can be mounted hinge side, top jamb, or parallel arm on either right or left swinging doors. Nonsized cylinder is adjustable 1 through 5.

SC61 Series has a Norton 1600 Series Footprint.

SC71 Series has a full body.

SC81 Series is low profile.

Arm Type	▶CHOOSE: Finish	Item No.
Falcon SC61		
Parallel	Sprayed Aluminum,	**H4262**
Parallel	Dark Bronze	**H4263**
Parallel	Powder Coat	**H4264**
Parallel	Dark Bronze Powder Coat	**H4265**
Falcon SC71		
Parallel	Sprayed Aluminum,	**H4267**
Parallel	Dark Bronze	**H4268**
Top Jamb	Powder Coat	**H4266**
Falcon SC81		
Parallel	Sprayed Aluminum,	**H4269**
Parallel	Dark Bronze Powder Coat	**H4270**
Falcon SC91		
Parallel	Sprayed Aluminum,	**H4271**
Parallel	Dark Bronze Powder Coat	**H4272**
LCN SC61		
Parallel	Sprayed Aluminum	**H4265**

Description	Finish	Mfr. Model	Item No.
22 Series Touchbar Exit Devices			
Exit Device, Exit Only, Rim, 3-Ft.	Lacquer	22EO 3FT SP28	**4WY55**
Exit Device, Exit Only, Rim, 4-Ft.	Lacquer	22EO 4FT US28	**2RJ50**
Exit Device, Exit Only, Surface Vertical Rod, 3-Ft.	Lacquer	2227EO-3-SP28	**4WY56**
Exit Device, Exit Only, Surface Vertical Rod, 4-Ft.	Lacquer	2227EO-4-SP28	**2RJ51**
Exit Device, Alarm Type Horn, 3-Ft.	Aluminum	22EO 3FT SP28 ALK 3215	**1RAL8**
Exit Device Trim, Knob	Aluminum	210K US28	**4WY57**
Alarm Exit Device Kit	Aluminum	22ALK 3FT SP28 3215	**1RAL5**
Exit Device Trim, Lever	Unfinished	230L-03 SP28 3215 LHR	**407L95**
99 Series Touchbar Exit Devices			
Exit Device Trim, Night Latch	Sprayed Duranodic	990NL-R/V SP313 3216	**2RJ64**
Exit Device Trim, Electric Latch Retraction	Satin Chrome	EL99EO 3 26D	**1RAL3**
Exit Device, Exit Only, Rim, 3-Ft.	Satin Chrome	99EO 3 26D	**4WY59**
Exit Device, Exit Only, Rim, 4-Ft.	Satin Chrome	99EO 4 26D	**2RJ56**
Exit Device, Exit Only, Surface Vertical Rod, 3-Ft.	Satin Chrome	9927EO 3 26D	**4WY60**
Exit Device, Exit Only, Surface Vertical Rod, 4-Ft.	Satin Chrome	9927EO 4 26D	**2RJ57**
Exit Device Trim, Dummy	Satin Chrome	990DT US26D	**4WY62**
Exit Device Trim, Night Latch	Satin Chrome	990NL-R/V US26D 3216	**4WY63**
Exit Device Trim, Pull, Entrance by Thumbpiece	Satin Chrome	990TP-R/V US26D 3216	**4WY64**
Exit Device Trim, Lever	Satin Chrome	996L-06-R/V US26D LHR 3216	**5VRE5**
Alarm Exit Device Kit	Satin Chrome	99ALK 3FT US26 3215	**1RAL7**
99 Series Conversion Kit			
EL Conversion Kit, 24VDC, 3-Ft.		050070	**1RAK8**
88 Series Crossbar Exit Devices			
Exit Device, Exit Only, Mortise, Right Hand Reverse	Satin Chrome	8875EO 26D	**4AZY1**
Exit Device, Exit Only, Heavy-Duty Rim	Satin Chrome	88EO US26D	**4AZY2**
Backplate Conversion Kit for use with Nos. 4AZY2 and 4AZY8	Dull Chromium	050102 26D	**5VRF6**
Exit Device, Mortise, Night Latch Trim	Satin Chrome	880NL-R US26D	**407L91**
Exit Device, Mortise, Night Latch	Satin Chrome	880NL-M US26D	**407L92**
Alarmed Device			
Guard-X, Battery Powered for Alarm Device	Aluminum	2670 3FT US28 3216	**4WY65**

VON DUPRIN®

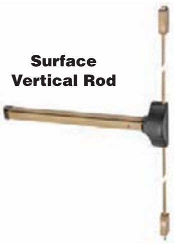
Exit Devices, Grade 1

- Fit doors 1¾" to 2¼" thick up to 7-ft. high

For heavy traffic applications. Use on flush and wide-stile doors.

Rim Pullman Bolt

Rim SquareBolt



Surface Vertical Rod

Exit Devices

- Nonhanded

Nonfire-rated devices have a dogging feature that keeps the door unlatched, allowing traffic to enter and exit freely. "A" labeled fire doors. Fit 1¾"- and 2¼"-thick doors up to 7-ft. high. Include strike and mounting hardware. Heavy-duty devices have a hydraulic noise-dampening feature and a high-quality finish.

Rim Pullman Bolt— Devices resist vandalism and have a ¾" throw stainless steel latchbolt for single-point latching. A guardbolt deadlocks the latchbolt when door is closed and latched.

Rim SquareBolt— Deadbolt-style, 1" throw latchbolt engages the roller strike with a flat surface for increased security. Stainless steel bolt design locks into place; resists shimming and door rattling/shaking.

Surface Vertical Rod— 2-point locking exit devices have an automatic deadlocking upper latchbolt with ¾" throw and lower deadbolt with ⅝" throw. For doors taller than 7 ft., order vertical rod extensions.

Finish	2 IN Item No.	6 IN Item No.	12 IN Item No.
Surface Vertical Rod Extensions			
Stainless Steel 360	4AVD4	4AVD5	4AVE3
Aluminum Painted	4AVE1	4AVE2	4AVD6
Bronze Painted	4AVD7	4AVD8	4AVD9

Description	Finish	Door W (in.)	FIRE RATED Item No.	NON-FIRE RATED Item No.
Heavy-Duty, 7100 Series				
Rim Pullman Bolt	Stainless Steel	30 to 36	5T796	5T794
Rim SquareBolt	Stainless Steel	30 to 36	3ZV64	3ZV63
Surface Vertical Rod	Stainless Steel	30 to 36	5T797	5T795
Standard-Duty, 2100 Series				
Rim Pullman Bolt	Stainless Steel	30 to 36	1ABK4	1ABK3
Rim Pullman Bolt	Lacquer	30 to 36	1ABK5	—
Rim Pullman Bolt	Aluminum	30 to 36	—	1H820
Rim Pullman Bolt	Painted	30 to 36	1ABK6	1H819
Rim SquareBolt	Stainless Steel	30 to 36	1ABL3	1ABL2
Rim SquareBolt	Lacquer	30 to 36	1ABL5	1ABL4
Rim SquareBolt	Painted	30 to 36	1ABL7	1ABL6
Surface Vertical Rod	Painted	30 to 36	1ABL1	1H818
Surface Vertical Rod	Stainless Steel	30 to 36	1ABK8	1ABK7
Surface Vertical Rod	Stainless Steel	30 to 36	—	1H817
Surface Vertical Rod	Lacquer	30 to 36	1ABK9	—
Standard-Duty, 1800 Series				
Rim Pullman Bolt	Lacquer	30 to 36	5VRW9	5VRV7
Rim Pullman Bolt	Lacquer	36 to 42	5VRX0	5VRV8
Rim Pullman Bolt	Lacquer	42 to 48	5VRX1	5VRV9
Rim Pullman Bolt	Bronze	30 to 36	5VRX2	5VRW0
Rim Pullman Bolt	Bronze	36 to 42	5VRX3	5VRW1
Rim Pullman Bolt	Bronze	42 to 48	5VRX4	5VRW2
Surface Vertical Rod	Lacquer	30 to 36	5VRX5	5VRW3
Surface Vertical Rod	Lacquer	36 to 42	5VRX6	5VRW4
Surface Vertical Rod	Lacquer	42 to 48	5VRX7	5VRW5
Surface Vertical Rod	Bronze	30 to 36	5VRX8	5VRW6
Surface Vertical Rod	Bronze	36 to 42	5VRX9	5VRW7
Surface Vertical Rod	Bronze	42 to 48	5VRY0	5VRW8

2WHH5

2WHH3

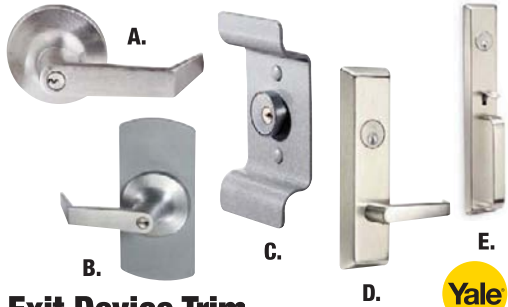
Exit Devices and Trim

- Thru-bolt trim design for increased security and durability
- For doors 32" to 36"W

Use in school, healthcare, industrial, office, and multifamily housing facilities. Hex dogging and cylinder dogging lock down the device bar so the latch remains retracted and the door can swing freely. Hex dogging locks down the bar with the use of a hex key. Cylinder dogging uses a keyed cylinder for increased access control.

Standard-duty devices tested to over 500,000 cycles and exceed requirements for Grade 1 certification.

Description	Finish	Item No.
Exit Devices		
Rim Exit Device, Cylinder Dogging	Aluminum	2WHH9
Standard Rim	Aluminum	2WHH5
Standard Rim, Fire Rated	Aluminum	2WHH4
Standard Surface Vertical Rod	Aluminum	2WHH3
Standard Surface Vertical Rod, Fire Rated	Aluminum	2WHH2
Surface Vertical Rod, Cylinder Dogging	Aluminum	2WHH8
Exit Device Trim		
Passage Lever	Aluminum	2WHG8
Entry Lever	Aluminum	2WHG9
Nightlatch Lever	Aluminum	2WHH1
Gull Wing Pull	Aluminum	2WHH6
Rose Lever, Classroom	Aluminum	5PHH0
Rose Lever, Classroom, SFIC	Aluminum	5PHH1
Rose Lever, Storeroom	Aluminum	5PHH2
Rose Lever, Storeroom, SFIC	Aluminum	5PHH4



Exit Device Trim

Prepped to fit Yale 7100, 2100, and 1800 Series exit devices. When exit device is unlocked, the 6-pin cylinder retracts the latchbolt. Lever is Augusta-style and freewheeling to resist vandalism. 4UB37 is a bored lock prep that locks the exit device unless unlocked with a key.

Key	Description	Finish	Item No.
A	Cylindrical by Lever	Satin Chrome	1H813
A	Cylindrical by Lever	Baked Aluminum 689	3ZV42
B	Cylindrical by Lever with Plate	Baked Aluminum 689	4UB37
C	Pull Plate	Baked Aluminum 689	1H816
D	Escutcheon by Lever, Right Hand	Stainless Steel	5T804
D	Escutcheon by Lever, Left Hand	Stainless Steel	5T805
D	Escutcheon by Handle	Stainless Steel	5T799
E	Escutcheon by Thumbpiece and Handle	Stainless Steel	5T801

35GR63
2200 Series

35GR71
2100 Series

Heavy-Duty Exit Devices

Chassis are constructed from investment cast steel. Universal mounting holes provide an easy retrofit installation. Designed for single and double door applications. 2100 Series devices are nonhanded.

Description	Finish	Door Height	Door Width	Fits Stile Width	For Door Thickness	Fire Rated	Item No.
Rod, 2200 Series							
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR63
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR64
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR65
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR66
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	No	35GR68
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	No	35GR69
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	No	35GR70

Description	Finish	Door Height	Door Width	Fits Stile Width	For Door Thickness	Fire Rated	Item No.
Rim, 2100 Series							
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR71
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR72
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR73
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	Yes	35GR74
Exit Device	Satin Stainless Steel	Up to 120 in	48 in	4 ⅛ in	1 ¾ in to 2 ¼ in	No	35GR76
Exit Device	Satin Stainless Steel	Up to 120 in	36 in	4 ⅛ in	1 ¾ in to 2 ¼ in	No	35GR77

5TUN1

Exit Devices and Trim, Grade 1

- Fit 1¾"-thick doors
- 19 Series

Suitable for all doors where there is no projection on the face. Can be sized down to fit the required width of the door and used with a variety of exit device trims. Include sheet metal and machine screws.

Description	Finish	Door Width	Item No.
Exits			
Touchbar Rim	Aluminum	37 in to 48 in	5TUN1
Touchbar Rim	Aluminum	36 in	5TUN2
Exit Trim			
Lever w/Lock	Aluminum	—	5TUN3
Knob w/Lock	Stainless Steel	—	5TUN4
Night Latch Pull w/Lock	Aluminum	—	5TUN5

18F574

18F576

G6694

G6702

SARGENT
ASSA ABLOY

Sargent Exit Devices, Grade 1

- For 1¾"-thick doors

3828 SERIES

Nonhanded style. Stainless steel latchbolt, ¾" throw. Dogging feature keeps the door unlatched to allow traffic to enter and exit freely.

88 SERIES

- 3-hr. fire rating

Designed for standard width stile applications on wood and metal doors. Nonhanded style. Stainless steel latchbolt, ¾" throw.

87 SERIES

- 3-hr. fire rating

Feature 2-pt. top and bottom latching with adjustability through the center case. Standard bottom latch is compatible with most latch track thresholds.

Description	▶CHOOSE: Finish	Mfr. Model	Item No.
3828 Series Rim Exit Devices and Trim			
Exit Device, Exit Only, Rim, 3 ft.	Lacquer	3828F EN	**18F574**
Exit Device, Vertical Rod, 3 ft.	Lacquer	3827F EN	**18F575**
Exit Device Trim, Pull, Entrance by Thumbpiece	Painted	28K-LL-26D	**18F576**
Exit Device Trim, Night Latch	Painted	814HTB EN	**18F577**
88 Series Multifunction Exit Device and Trim			
Exit Device, Exit Only, Rim, 3 ft.	Stainless Steel, Brass	8888F	**G6693**
Storeroom Lever Trim, Night Latch, Right Hand	Satin Chrome, 10B Dull	704 ETL RHRB	**G6694**
Storeroom Lever Trim, Night Latch, Left Hand	Satin Chrome, 10B Dull	704 ETL LHRB	**G6695**
Classroom Lever Trim, Right Hand	Satin Chrome, 10B Dull	713-8 ETL RHRB	**G6696**
Classroom Lever Trim, Left Hand	Satin Chrome, 10B Dull	713-8 ETL LHRB	**G6697**
Passage Lever Trim, Right Hand	Satin Chrome, 10B Dull	715-8 ETL RHRB	**G6698**
Passage Lever Trim, Left Hand	Satin Chrome, 10B Dull	715-8 ETL LHRB	**G6699**
87 Series Exit Devices and Trim			
Exit Device, Vertical Rod, No Outside Operation, Right Hand, 3 ft.	Stainless Steel, Brass	8710F RHR	**G6701**
Exit Device, Vertical Rod, No Outside Operation, Left Hand, 3 ft.	Stainless Steel, Brass	8710F LHR	**G6700**
Exit Device, Vertical Rod, Passage Only, Right Hand, 3 ft.	Stainless Steel, Brass	8715F LHR	**G6702**
Exit Device, Vertical Rod, Passage Only, Left Hand, 3 ft.	Stainless Steel, Brass	8715F RHR	**G6703**
Exit Device, Vertical Rod with Cylinder, Right Hand, 3 ft.	Stainless Steel, Brass	8713F LHR	**G6704**
Exit Device, Vertical Rod with Cylinder, Left Hand, 3 ft.	Brass	8713F RHR	**G6705**
Storeroom Lever Trim, Right Hand	Satin Chrome, 10B Dull	706 ETL RHRB	**G6708**
Storeroom Lever Trim, Left Hand	Satin Chrome, 10B Dull	706 ETL LHRB	**G6709**

FALCON

Exit Devices, Grade 1

- 19 Series devices fit doors 1¾" thick up to 7-ft. high
- 25 Series devices fit doors 1¾" to 2¼" thick up to 7-ft. high

For assisted living facilities, retail stores, churches, and other commercial buildings that have constant traffic.

Description	SATIN CHROME Mfr. Model	SATIN CHROME Item No.	DARK BRONZE Mfr. Model	DARK BRONZE Item No.
19 Series Exit Devices				
Exit Device, Rim, Long	19-R-EO SP28 4FT	**2RJ66**	—	—
Exit Device, Surface Vertical Rod	19-V-EO SP28 3FT LHR	**4WY74**	—	—
Exit Device Trim, Pull	—	—	930NL SP313 3216	**2RJ73**
Exit Device Trim, Lever, Dane Standard	—	—	914KIL-KD SP313	**2RJ72**
25 Series Exit Devices				
Exit Device, Exit Only, Rim	25-R-EO 3 28	**5YFA5**	—	—
Exit Device, Exit Only, Surface Vertical Rod	25-V-EO 3 28	**5YFA7**	—	—
Exit Device Trim, Pull Entrance by Thumbpiece	512TP SP28	**5YFC3**	512TP SP313	**5YFC2**
Exit Alarm	EAK SP28 3FT	**5YFC4**	—	—
Exit Device Trim, Pull, Entrance by Trim	—	—	512NL SP313	**5YFA8**

19A987

Corbin Russwin Push/Pull Paddle Tubular Locksets

- Backset: 5"
- Door Thickness: 1¾"

Strong and durable for abusive environments with multiple mounting configurations to accommodate customized openings. Field configurable. Ideal for patient room, bathroom, and closet doors in healthcare environments.

Description	Hand	Finish	Mfr. Model	Item No.
Passage	NH	Stainless Steel	HP3010 630	**19A986**
Privacy	RH	Stainless Steel	HP3020 RH 630	**19A987**
Privacy	LH	Stainless Steel	HP3020 LH 630	**19A988**

Exit Devices, Grade 1

44ZU92

- 100dB alarm

Secure and durable panic and fire exit devices help control traffic, deters unauthorized exits, and provides security while protecting property. Feature armed and disarmed field selectable status indicator. Mounting plate and strike locator system offer safety and security in a panic device that is easy to install.

Series	Door Width	Lockdown Type	For Door Thickness	Item No.
Rim Exit Device				
FV40	36 in	Less Dogging	1 ¾ in to 2 ¼ in	**44ZV12**
V40	36 in	Cylinder Dogging	1 ¾ in to 2 ¼ in	**44ZV26**
Rim Exit Device with Alarm				
ECL-230	34 in	Cylinder Dogging	1 ¾ in to 2 ¼ in	**44ZU92**
ECL-230	34 in	Cylinder Dogging	1 ¾ in to 2 ¼ in	**44ZU97**
ECL-230	34 in	Cylinder Dogging	1 ¾ in to 2 ¼ in	**44ZV03**
V40	36 in	Cylinder Dogging	1 ¾ in	**28YA70**
V40	36 in	Cylinder Dogging	1 ¾ in	**28YA72**
V40	48 in	Cylinder Dogging	1 ¾ in	**28YA74**
Service Verticle Rod Exit Device with Alarm				
V50	36 in	Cylinder Dogging	1 ¾ in	**28YA76**

1U112

1HLC6

1ABN3

Description	Item No.
Alarm Lock Brand	
Standard Alarm	
Key Controlled	**1U112**
Slimline Alarm	
Key Controlled with Strobe	**1HLC6**
Key Controlled	**1U108**
Keypad Controlled	**6JD82**
Additional Keypad	**6JD81**
Accessories	
Mortise Cylinder, Keyed Alike	**1U004**
Mortise Cylinder, Keyed Different	**1U120**
Replacement 6V Power Pack	**1U106**
Yale Brand	
Standard Alarm	
Key Controlled	**1ABN3**
Accessories	
Mortise Cylinder	**1ABN5**

Magnetic Exit Door Alarms

Help deter unauthorized use of emergency doors by sounding an alarm when door is opened. Alarm surface mounts on the interior side of the door, and magnetic contacts mount on the door frame. Alarms are reversible for right- and left-hand doors. For indoor use only; mounting hardware included. Key-controlled alarms require a mortise cylinder lock (sold separately).

Standard—Have a low battery warning. 1U112 includes a battery pack; 1ABN3 includes a 9V battery.

Slimline—Narrow design takes up less space. 6JD82 mounts on inside of door and has a programmable 6-digit keypad to arm and disarm the alarm; 6JD81 mounts on the outside. All include 9V battery.

1U124

1U122

Alarmed Exit Devices

- 95dB alarm
- Include mounting hardware and battery.

Applying pressure to the push bar retracts the latch from the strike plate and sounds alarm until reset with included key. Aluminum housings. Paddle- and bar-activated deadlatches, a low-battery indicator, and a deadlocking latch that resists tampering. Deadbolt extends 1" into strike plate.

Description	Finish	Item No.
Deadlatch, 32" Bar	Aluminum	**1U124**
Deadlatch, 18" Paddle	Aluminum	**1U122**
Deadlatch, 18" Paddle, Weatherproof	Brushed Chrome	**1YND4**
Rim Cylinder, Keyed Alike	—	**1U005**
Rim Cylinder, Keyed Different	—	**1U107**
Delayed Egress Panic Alarm Device	Satin Aluminum	**5MRX1**

Deadlatch

Handle

Paddle

Aluminum Door Hardware

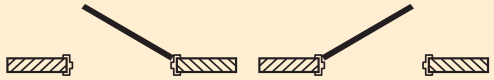
Deadlatches—A reverse key turn while the bolt is held retracts the latchbolt, allowing 2-way traffic. When latchbolt is extended, exit-only traffic is allowed. Compatible with any standard 1 5/32" mortise cylinder where an MS cam is installed. An auxiliary bolt helps prevent shimming.

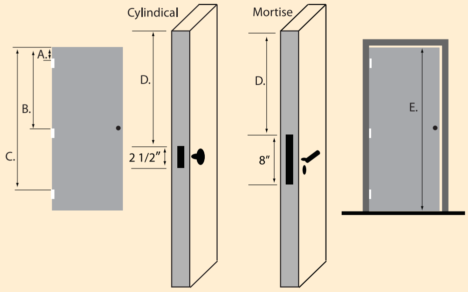
Deadlatch Handles and Paddles—Include an activator camdisc that mounts on the handle escutcheon and fits into the cylinder hole of the latch.

Description	▶CHOOSE: Hand	Strike Length (in.)	SATIN ALUMINUM Item No.	DARK BRONZE Item No.
Deadlatches, 4510 Series				
1⅛" Backset	LH or RHR, RH or LHR	4⅔, 2⅔	**D1066**	**D1067**
1½" Backset	LH or RHR, RH or LHR	4⅔, 2⅔	**D1068**	**D1069**
Deadlatch Handles and Paddles, 4500 Series				
Paddle	LH, RH	—	**D1072**	**D1074**
Handle	LH, RH or LH	—	—	**D1073**
Handle	LH or LHR, RH or RHR	—	**D1071**	—

Door Selection Guide

Frame Handing - Select the proper handing.
Right Hand (RH) - Hinges are on the right, door is pushed in.
Left Hand (LH) - Hinges are on the left, door is pushed in.
Right Hand Reverse (RHR) - Hinges are on the right, door is pulled away.
Left Hand Reverse (LHR) - Hinges are on the left, door is pulled away.





A. Measure from top of door to top of upper hinge.
B. Measure from top of door to top of middle hinge.
C. Measure from top of door to top of bottom hinge.
D. Measure from top of door to top of door edge cutout.
E. Measure from inside edge of header to the floor to determine door height.

Door Frames

- 5-3/4" overall jamb depth with a 4⅞" throat opening
- Shipped unassembled

16-ga. cold-rolled steel frame has a 2" face and die-cut mitered corners. Prepped for 3 each of 4½" x 4½" x 0.134" or 0.180" hinges and a 4⅞" ASA universal strike and closer reinforcement. Identify door swing by standing with door swinging forward; if the hinges are on the left, the model is a left-hand door.

Door Designs:

Dim. A Top Hinge (in.)	Dim. B Middle Hinge (in.)	Dim. C Bottom Hinge (in.)	Dim. D Cylindrical Lock From Top (in.)	Dim. D Lockset From Top (in.)	Dim. E Door Height (in.)
Type 1					
6⅝	37⅝	68⅝	36¹⁵⁄₁₆	34¹⁄₁₆	80
6⅝	39⅝	72⅝	40¹⁵⁄₁₆	38¹⁄₁₆	84
Type 2					
4⅞	35⅛	65⅜	38¾	35⅞	80
4⅞	37⅛	69⅜	42¾	39⅞	84
Type 3					
7⅜	37⁵⁄₁₆	67¼	38⁷⁄₁₆	35⁹⁄₁₆	80
7⅜	39⁵⁄₁₆	71¼	42⁷⁄₁₆	39⁹⁄₁₆	84

Steel Doors

CecoDoor ASSA ABLOY

Steel face sheets are supported by kraft honeycomb core for exceptionally flat surfaces with high structural resistance to impact damage. Core has thermal insulation U-factor of 0.41. 1¾"-thick door is nonhanded and comes with a UL fire label. Prime painted and closer reinforced with 3 each of 4½" x 4½" x 0.134" or 0.180" hinge preparations.

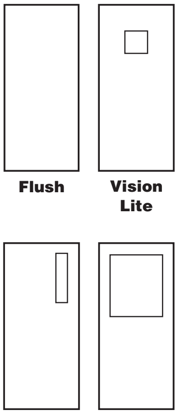
Door available with either a Government 161 cylindrical lock prep with 2¾" backset, or an 86 edge only mortise lock prep. Doors with glass have a ¼"-thick clear wire glass with safety film.

Note: Hinges, lockset, and closer are not included.

▶**Please Choose:** Door Type: 1, 2, 3

▶**Please Choose:** Lock Type: Cylindrical, Mortise

Flush Door Design



Flush **Vision Lite** **Narrow Lite** **Half Glass**

Door Opening Width	Door Opening Height	FLUSH 16 GA. Item No.	FLUSH 18 GA. Item No.	VISION LITE 16 GA. Item No.	VISION LITE 18 GA. Item No.	NARROW LITE 16 GA. Item No.	NARROW LITE 18 GA. Item No.	HALF GLASS 16 GA. Item No.	HALF GLASS 18 GA. Item No.
Doors Without Glass									
30 in	80 in	D3523	D3543	D3618	D3627	D3636	D3645	D3654	D3663
30 in	84 in	D3525	D3545	D3619	D3628	D3637	D3646	D3655	D3664
32 in	80 in	D3527	D3547	D3621	D3629	D3638	D3647	D3656	D3665
32 in	84 in	D3529	D3567	D3622	D3631	D3639	D3648	D3657	D3666
36 in	80 in	D3533	D3569	D3623	D3632	D3636	D3649	D3658	D3667
36 in	84 in	D3535	D3579	D3624	D3633	D3642	D3651	D3659	D3668
36 in	80 in	—	—	—	—	D3641	—	—	—
48 in	80 in	D3537	D3582	D3625	D3634	D3643	D3652	D3661	D3669
48 in	84 in	D3539	D3584	D3626	D3635	D3644	D3653	D3662	D3671
Doors With Glass									
30 in	80 in	—	—	D3672	D3681	D3689	D3698	D3707	D3716
30 in	84 in	—	—	D3673	D3682	D3691	D3699	D3708	D3717
32 in	80 in	—	—	D3674	D3683	D3692	D3701	D3709	D3718
32 in	84 in	—	—	D3675	D3684	D3693	D3702	D3711	D3719
36 in	80 in	—	—	D3676	D3685	D3694	D3703	D3712	D3721
36 in	84 in	—	—	D3677	D3686	D3695	D3704	D3713	D3722
48 in	80 in	—	—	D3678	D3687	D3696	D3705	D3714	D3723
48 in	84 in	—	—	D3679	D3688	D3697	D3706	D3715	D3724

SECURALL®

Quick-Mount Steel Doors

Constructed of corrosion-resistant, galvannealed steel. Prehung on 12 gauge, fully-welded subframes that are ready to install into preexisting steel door frames. All doors include 3 ball bearing hinges, threshold, a door closer, a set of weatherstripping with door sweep, and preinstalled hardware. H-series and R-series include an exit device and a lever trim with mortise cylinder. H-series includes a 22" W x 30" H or 34" H (for 84" H doors) view light with ceramic glass.

R-series includes a 4" W x 25" H view light with ceramic glass. P-series are full flush doors.

23Y727

Lock Type	Hand	Door Opening Height	Door Opening Width	Material	Item No.
H Series, 45 Min Fire Rated Door					
Push Bar Rim Exit Device With Locking Trim	RHR	80 in	36 in	16 Gauge Steel	23Y712
	LHR	80 in	36 in		23Y713
	RHR	84 in	36 in		23Y718
	LHR	84 in	36 in		23Y719
	RHR	80 in	36 in	18 Gauge Steel	23Y724
	LHR	80 in	36 in		23Y725
	RHR	84 in	36 in		23Y730
	LHR	84 in	36 in		23Y731
P Series, 1 ½ Hr. Fire Rated Door					
Mortise	RHR	80 in	36 in	16 Gauge Steel	23Y708
	LHR	80 in	36 in		23Y709
	RHR	84 in	36 in		23Y714
	LHR	84 in	36 in		23Y715
	RHR	80 in	36 in	18 Gauge Steel	23Y720
	LHR	80 in	36 in		23Y721
	RHR	84 in	36 in		23Y726
	LHR	84 in	36 in		23Y727
R Series, 1 ½ Hr. Fire Rated Door					
Push Bar Rim Exit Device With Locking Trim	RHR	80 in	36 in	16 Gauge Steel	23Y710
	LHR	80 in	36 in		23Y711
	RHR	84 in	36 in		23Y716
	LHR	84 in	36 in		23Y717
	RHR	80 in	36 in	18 Gauge Steel	23Y722
	LHR	80 in	36 in		23Y723
	RHR	84 in	36 in		23Y728
	LHR	84 in	36 in		23Y729

Steel Doors with Louvers

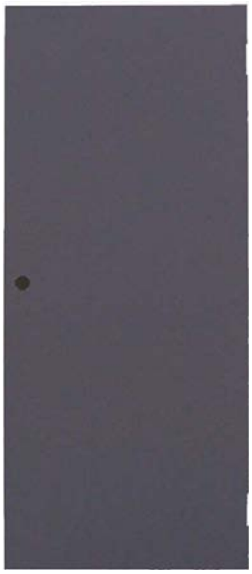
CecoDoor ASSA ABLOY

- 1¾"-thick doors

Doors help to improve ventilation and heat transfer in and out of storage areas while maintaining privacy. Suitable for use in boiler rooms, cleaning closets, restrooms, and storage closets where heat or fumes can accumulate.

D2855

Door Opening Width	Door Opening Height	▶CHOOSE: Door Type	▶CHOOSE: Lock Type	12 X 12 IN LOUVERS Item No.	24 X 12 IN LOUVERS Item No.	24 X 24 IN LOUVERS Item No.	24 X 60 IN LOUVERS Item No.
36 in	80 in	1, 2, 3	Cylindrical, Mortise	D2855	D2861	D2863	D2865
36 in	84 in	1, 2, 3	Cylindrical, Mortise	D2856	D2862	D2864	D2866
48 in	80 in	1, 2, 3	Cylindrical, Mortise	D4276	D4278	D4281	D4283
48 in	84 in	1, 2, 3	Cylindrical, Mortise	D4277	D4279	D4282	D4284



CecoDoor
ASSA ABLOY

Steel-Stiffened Doors

- 18-ga. steel
- 1¾"-thick doors

Designed to take most abuse without failure. 22-ga. steel stiffeners are placed inside the door every 6" and welded every 5" along the length of the stiffener. Fiberglass insulation between the stiffeners helps deaden sound. Door top and bottom are sealed with a 16-ga. steel channel welded in place. Doors are handed; come with closer reinforcement.

Door Opening Width	Door Opening Height	Fire Rating	▶CHOOSE: Lock Type	LEFT-HAND Item No.	RIGHT-HAND Item No.
36 in	84 in	3 hr	Cylindrical, Mortise	D2914	D2915

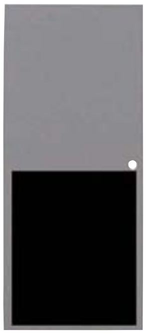
CecoDoor
ASSA ABLOY

6-Panel Embossed Steel Doors

- 18-ga. A40 galvanized steel
- 1¾"-thick doors

The durability of steel with the pleasing appearance of a wood door. Polystyrene insulated core is bonded to the interior of the steel skin. Doors have closer reinforcement.

Door Opening Width	Door Opening Height	▶CHOOSE: Frame Type	▶CHOOSE: Lock Type	Item No.
36 in	80 in	1, 2, 3	Cylindrical, Mortise	D2916
36 in	84 in	1, 2, 3	Cylindrical, Mortise	D2917



Armor Plate

Kick Plate

Stretcher Plate

Mop Plate

ROCKWOOD®
ASSA ABLOY

Door Protection Plates

- Plates are 0.05" thick except Diamond-Tread Aluminum are 0.075"; 6" and 8" widths are 0.040"; 10" widths and above are 0.063"
- Come with mounting holes and screws

Protect doors from scratches and dents caused by collisions from gurneys, carts, hand trucks, or heavy equipment. Choose a plate 2" narrower than door.

H	W	Brand	Dull 316 Stainless Steel Item No.	Dull 304 Stainless Steel Item No.	Diamond Tread Aluminum Item No.	Dull Aluminum Item No.	Bright Brass Item No.	Dull Bronze Item No.
Armor Plates								
16 in	34 in	Rockwood	2RFW6	2RFR9	—	2RFZ3	2RGH8	2RGC9
24 in	34 in	Rockwood	2RFU9	—	—	—	2RGG4	2RGA3
34 in	24 in	Rockwood	—	—	—	2RFX6	—	—
34 in	34 in	Rockwood	2RFW7	2RFU2	—	2RFZ4	2RGH9	2RGD1
34 in	36 in	Rockwood	2RFW8	—	—	—	—	2RGD2
34 in	42 in	Rockwood	2RFW9	—	—	—	2RGJ2	2RGD3
34 in	42 in	—	—	—	2RGF7	—	—	—
42 in	34 in	Rockwood	—	—	—	2RFZ6	—	—
Kick/Stretcher Plates								
8 in	28 in	Rockwood	2RFV2	2RCH9	—	2RFX8	—	2RGA5
8 in	30 in	Rockwood	2RFV8	—	—	—	5U651	2RGC2
8 in	34 in	Rockwood	—	—	—	2RFY9	—	2RGC6
8 in	36 in	Rockwood	2RFX2	—	—	—	2RGJ4	2RGD5
8 in	40 in	Rockwood	2RFX5	—	—	—	5U653	2RGD8
10 in	28 in	Rockwood	2RFV3	2RFN9	—	2RFX9	—	2RGA6
10 in	30 in	Rockwood	2RFV9	2RFR1	—	2RFY6	2RGH3	2RGC3
10 in	34 in	Rockwood	2RFW4	—	—	2RFZ1	2RGH6	2RGC7
10 in	36 in	Rockwood	2RFX3	2RFU7	—	2RFZ9	2RGJ5	2RGD6
12 in	28 in	Rockwood	2RFV4	2RFP2	—	2RFY1	2RGG8	2RGA7
12 in	30 in	Rockwood	2RFW1	2RFR3	—	2RFY7	2RGH4	2RGC4
12 in	34 in	Rockwood	—	—	—	2RFZ2	2RGH7	2RGC8
12 in	36 in	Rockwood	2RFX4	2RFU8	—	—	2RGJ6	2RGD7
Mop Plates								
6 in	28 in	Rockwood	2RFV1	2RCH8	—	—	2RGG5	2RGA4
6 in	30 in	Rockwood	2RFV7	2RFP8	—	2RFY4	2RGH2	2RGC1
6 in	34 in	Rockwood	2RFW2	—	—	2RFX7	2RGH5	2RGC5

3HJF9

3HJF7

3HJG1

3HJG3

Door Hardware Protectors

ROCKWOOD®
ASSA ABLOY

Protect door hardware from damage caused by moving carts, gurneys, and hand trucks.

Length	Width	Projection	Center to Center Length	Hand	Item No.
Lever Door Trim Protector Bars					
—	—	3 ¼ in	8 in	—	3HJF9
—	—	3 ¼ in	12 in	—	3HJF6
Exit Device Protector Bars					
—	—	3 ¼ in	7 ½ in	—	3HJF7
—	—	4 ½ in	8 ½ in	—	3HJF8
Vertical Rod Covers					
12 in	3 ¼ in	1 ⅝ in	—	—	3HJG1
24 in	3 ¼ in	1 ⅝ in	—	—	3HJG2

Length	Width	Projection	Center to Center Length	Hand	Item No.
Latch Guard Covers					
10 in	6 in	2 ⅜ in	—	Left	3HJG3
10 in	6 in	2 ⅜ in	—	Right	3HJG4
12 in	6 in	2 ⅜ in	—	Left	3HJG5
12 in	6 in	2 ⅜ in	—	Right	3HJG6
16 in	6 in	2 ⅜ in	—	Left	3HJG7
16 in	6 in	2 ⅜ in	—	Right	3HJG8
Door Coordinators					
For Use With 72" Door Openings					3HJH1

Fire and Smoke Seal
Silicone
Charcoal
G2325

Fire Seal
Graphite
3CEV8

Smoke Seal
Silicone
Dark Bronze
G2328

Smoke Seal
TPE Fin
Brown
G2333

Foam Seal
Nitrile
White
H3681

Foam Seal
Nitrile
2RRF1

Foam Seal
PVC
2RRE6

P Profile
EPDM Rubber
5MFK3

D Profile
EPDM Rubber
5MFL8

All Profile
EPDM Rubber
5MFN1

Cushion Ribbed
EPDM Rubber
Gray
H3960

PEMKO ASSA ABLOY · NGP NATIONAL GUARD PRODUCTS · Frost King

Weatherstripping and Seals

- Sold by the roll

Apply to inside of door frame and around windows to seal gaps quickly.

FIRE/SMOKE SEALS

For use with wood fire doors rated for 90 min.

Fire and Smoke Seals—Use to help seal off both fire and smoke.

Fire Seals—Graphite material expands at high temperatures to seal gaps and help prevent the spread of fire.

Smoke Seals—Help prevent smoke passage at temperatures up to 800°F.

FOAM SEALS

Nitrile Sponge Rubber—Highly compressible; can be used outdoors.

Closed Cell—Use to fill larger gaps; can be used outdoors.

Open Cell—Easy to compress; suitable for tight-fitting applications.

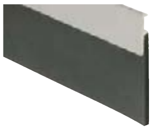
Pile—Polypropylene material helps reduce rattling.

EPDM RUBBER

Durable rubber stays flexible in extremely hot and cold temperatures. Blocks out drafts and dust around doors and windows.

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Brand	Item No.
Adhesive Backed Fire and Smoke Seals					
Silicone Compression Bulb					
20 ft	½ in	¼ in	Black, White	—	**G2324**
18 ft	½ in	¼ in	Dark Bronze	Pemko	**2EVA6**
300 ft	½ in	¼ in	Brown, Charcoal	NGP	**G2325**
TPE Fin, For Use With Tight Doors					
4 ft	¾ in	½ in	Brown	NGP	**3CEV9**
18 ft	½ in	⅜ in	Dark Bronze	Pemko	**2EVA5**
Adhesive Backed Fire Seals					
Graphite					
10 ft	½ in	0 in	Graphite	Pemko	**3EGP6**
18 ft	½ in	0 in	Gray	Pemko	**2EVA4**
21 ft	½ in	0 in	Graphite	Pemko	**3EGP7**
Graphite with TPE Smoke Fin					
3 ft	¾ in	½ in	Brown	NGP	**3CEV8**
7 ft	¾ in	½ in	Brown	NGP	**3CEW1**
Adhesive Backed Smoke Seals					
Silicone Compression Bulb					
18 ft	½ in	¼ in	Dark Bronze, White	Pemko	**G2326**
25 ft	½ in	¼ in	Dark Bronze, White	Pemko	**G2327**
204 ft	½ in	¼ in	Dark Bronze, White	Pemko	**G2328**
Silicone					
330 ft	½ in	¼ in	Black	—	**5MFN2**
Silicone Triple Fins, For Use with Metal Doors					
17 ft	½ in	⅜ in	Dark Bronze, White	Pemko	**G2329**

Overall Length	Overall Width	Overall Height	▶CHOOSE: Color	Brand	Item No.
TPE Fin, Self-Adhesive					
3 ft	½ in	½ in	Brown, Charcoal	NGP	**G2330**
4 ft	½ in	½ in	Brown, Charcoal	NGP	**G2331**
6 ft	½ in	½ in	Brown, Charcoal	NGP	**G2332**
7 ft	½ in	½ in	Brown, Charcoal	NGP	**G2333**
8 ft	½ in	½ in	Brown, Charcoal	NGP	**G2334**
9 ft	½ in	½ in	Brown, Charcoal	NGP	**G2335**
Foam Seals					
Nitrile Sponge Rubber					
10 ft	⅜ in	¼ in	Black, White	Frost King	**H3681**
10 ft	⅜ in	⅜ in	Black, White	Frost King	**H3682**
10 ft	⅜ in	½ in	Black, White	Frost King	**H3684**
10 ft	½ in	¼ in	Black	—	**2RRF1**
10 ft	½ in	⅜ in	Black	Frost King	**43Y814**
PVC					
10 ft	½ in	⅜ in	Black	—	**2RRF3**
Nitrile Sponge Rubber					
10 ft	½ in	⅝ in	Black	Frost King	**43Y820**
10 ft	¾ in	¼ in	Black	—	**2RRF2**
PVC					
10 ft	¾ in	⅜ in	Black	—	**2RRF4**
Nitrile Sponge Rubber					
10 ft	¾ in	⅜ in	Black, White	Frost King	**H3683**
10 ft	¾ in	½ in	Black, White	Frost King	**H3685**
10 ft	1 ¼ in	½ in	Black, White	Frost King	**H3959**
PVC Closed Cell Foam					
17 ft	⅜ in	¼ in	Gray	—	**2RRE4**
17 ft	½ in	¼ in	Gray	—	**2RRE5**
10 ft	¾ in	½ in	Gray	—	**2RRE6**
10 ft	1 ¼ in	⅜ in	Black	—	**5MFG7**
10 ft	1 in	¼ in	Black	—	**5MFG8**
Polyurethane Open Cell Foam					
17 ft	½ in	¼ in	Gray	—	**2RRE7**
17 ft	½ in	⅜ in	Gray	—	**2RRE8**
17 ft	¾ in	½ in	Gray	—	**2RRE9**
Polypropylene Pile					
17 ft	¼ in	¼ in	Gray	—	**2RRR8**
EPDM Rubber, Adhesive Backed, P Profile					
17 ft	⅜ in	7/32 in	Brown	—	**5MFK3**
200 ft	⅜ in	—	Black, Brown	—	**G2339**
EPDM Rubber, Adhesive Backed, D Profile					
17 ft	23/64 in	—	White	—	**G2340**
200 ft	23/64 in	—	Black	—	**5MFL8**
EPDM Rubber, Adhesive Backed, All Profile					
10 ft	19/32 in	—	Black, Brown, White	—	**G2342**
200 ft	19/32 in	—	Black	—	**5MFN1**
EPDM Rubber, Adhesive Backed, V-Seal					
17 ft	⅞ in	—	White	Frost King	**43Y829**
EPDM Rubber, Adhesive Backed, Cushion Ribbed					
10 ft	⅝ in	⅜ in	Gray, White	Frost King	**H3960**
Nail/Tacked/Stapled					
17 ft	⅝ in	¼ in	Gray	Frost King	**43Y830**
17 ft	1 ¼ in	¼ in	Gray	Frost King	**43Y831**
17 ft	½ in	—	Brown, White	Frost King	**H3961**



Flat Insert

Looped Insert

Face-Mount Overhead Door Seals

Mount to overhead doors and docks to help keep out dust and drafts. Neoprene inserts.

Flat Insert—Mount on bottom or edge of door. Seals require min. ¾" space between door and floor.

Looped Insert—Mount on bottom of door.

L (ft.)	Flange Height (in.)	Flange Material	Insert Size	Projection (in.)	Mfr. Model	Item No.
Neoprene Flat Insert						
6	⅞	Steel	1 ½ in	¼	197NA-6	**3HRV3**
8	⅞	Steel	1 ½ in	¼	197NA-8	**3HRV4**
10	⅞	Steel	1 ½ in	¼	197NA-10	**3HRV5**
12	⅞	Steel	1 ½ in	¼	197NA-12	**3HRV6**
Neoprene Looped Insert						
10	1⅛	Aluminum	1 ⅝ in	1⅛	81369N-10	**3HRV7**
15	1⅛	Aluminum	1 ⅝ in	1⅛	81369N-15	**3HRV8**

Aluminum Flange

No Flange

Base-Mount Overhead Door Seals

Mount to overhead door bottoms to seal gaps up to ¾" between door and floor. Seals remain flexible to -20°F. 3CEX9 includes two 4½-ft. aluminum flanges and one 9-ft. long rubber insert.

3CEY1 includes four 4½-ft. aluminum flanges and one 18-ft. long rubber insert.

L (ft.)	Flange Width (in.)	Flange Height (in.)	Insert Size	Insert Material	Includes	Item No.
Aluminum Flange						
9	1⅝	¼	¾ in	TPE Rubber	(2) 4 ½ ft Metal Flanges, #6 x ¾ in Stainless Steel Sheet Metal Screws, 9 ft Long Neoprene Insert	**3CEX9**
18	1⅝	¼	¾ in	TPE Rubber	(4) 4 ½ ft Metal Flanges, #6 x ¾ in Stainless Steel Sheet Metal Screws, 18 ft Long Neoprene Insert	**3CEY1**
No Flange						
9	2	1	1 ¼ in	TPE Rubber	(1) Black Plastic Cap, (18) 1 in Nails	**2RRT9**
16	2	1	1 ¼ in	TPE Rubber	(36) 1 in Nails, 1 in Black Plastic Cap	**2RRU1**
100	2	1	1 ¼ in	TPE Rubber	—	**2RRU2**

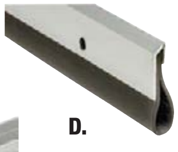
Door Sweeps

A. 3EGP9

A. 2RRG5

B.

C.



D.

E.

F.

Fill the gap below the door and help keep out drafts, light, dust, and weather. Mounting holes included. For inside or outside applications on residential and commercial doors.

A. Single-Fin—Seal door and threshold gaps up to ¾". Neoprene and EPDM material resist weather and remain flexible in cold temperatures.

B. Triple-Fin—Multiple layers provide a positive seal for uneven floors. Seal gaps up to ¾".

C. Nylon Brush Insert—Fibers fill gaps and sweep dirt, insects, and snow away from door. Oak flange can be painted or stained.

D. Reinforced Neoprene Insert, Looped—Create dead air space to insulate against drafts and hold sweep tightly against floor.

E. Drip Cap—Divert rain and debris away from door.

F. Spring-Loaded Door Bottom—Spring lowers door sweep automatically when door is closed. For use on swing-in doors.

Key	Flange Material	Flange Height (in.)	Insert Size	Projection (in.)	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.
Single-Fin, Vinyl Insert						
A	Aluminum	¾	⅞ in	¼	—	**3EGU3**
A	Aluminum	1³⁄₁₆	1 ³¹⁄₃₂ in	¼	—	**2RRG4**
Single-Fin, Neoprene Insert						
A	Anodized Aluminum	1¼	⁷⁄₁₆ in	¼	**3EGP9**	**3EGR1**
A	Anodized Aluminum	1	2 in	⅜	**5MUK1**	**5MUK2**
A	Dark Bronze Aluminum	1¼	⁷⁄₁₆ in	¼	**3EGR2**	**3EGR3**
A	Dark Bronze Aluminum	1	2 in	⅜	**5MUK3**	**5MUK4**
A	Stainless Steel	1¼	⁵⁄₁₆ in	³⁄₁₆	**3EGT5**	**3EGT6**
Single-Fin, EPDM Rubber Insert						
A	Aluminum	1³⁄₁₆	1 ⁹⁄₁₆ in	¹⁵⁄₆₄	**2RRG5** *	—
A	Dark Brown Aluminum	1³⁄₁₆	¹⁵⁄₆₄ in	¹⁵⁄₆₄	**2RRG7** *	**2RRG8** *
Triple-Fin, Vinyl Insert						
B	Aluminum	²³⁄₃₂	⅞ in	¹³⁄₆₄	**1VZT1**	—
B	White Aluminum	²³⁄₃₂	⅜ in	¹³⁄₆₄	**1VZT2**	—
B	Hardwood	1¼	1 in	¼	**2RRH1**	—
B	Bronze	²³⁄₃₂	⅞ in	¹³⁄₆₄	**1VZT3**	—
Nylon Brush Insert						
C	Anodized Aluminum	¾	⅝ in	¼	**3EGR6**	**3EGR7**
C	Dark Bronze Aluminum	¾	⅝ in	¼	**3EGT7**	**3EGT8**
C	Anodized Aluminum	⅞	⅝ in	¼	**3EGT1**	**3EGT2**
C	Unfinished Oak Wood	1	⁹⁄₁₆ in	⅜	**3EGT4**	—
C	Unfinished Oak Wood		¹⁵⁄₁₆ in	⅜	**3EGT3**	—
C	Aluminum	⅝	⁷⁄₁₆ in	³⁄₁₆	—	**2RRH3** *
Reinforced Neoprene Insert, Looped						
D	Anodized Aluminum	¾	1 in	¼	**3HRH8**	**3HRH9**
Drip Cap, Vinyl Insert						
E	Aluminum	1½	1 ¹⁹⁄₆₄ in	⅝	**2RRH6** *	—
Drip Cap, Nylon Brush Insert						
E	Aluminum	1½	⁷⁄₁₆ in	⁹⁄₁₆	—	**3EGR5**
E	Bronze	1⅜	⁹⁄₁₆ in	¹³⁄₆₄	**2RRH9**	—
Spring-Loaded Door Bottom, Vinyl Insert						
F	Aluminum	1½	⅞ in	¹¹⁄₃₂	**2RRJ1**	—

Key	Flange Material	Flange Height (in.)	Insert Size	Projection (in.)	7-FT. LENGTH Item No.	8-FT. LENGTH Item No.
Nylon Brush Insert, Looped						
C	Anodized Aluminum	¾	⅝ in	¼	**3EGR8**	**3EGR9**
Rubber Insert, Looped						
D	Anodized Aluminum	¾	1 in	¼	**3HRJ1**	**3HRJ2**

** UL Classified.*

44ZZ69

45AA15

Door Sweeps

Keep out drafts, dust and debris from below doors. Anodized aluminum construction.

Insert Size	Flange Height	Projection	3 ft LENGTH Item No.	4 ft LENGTH Item No.
Single Fin Neoprene				
⁷⁄₁₆ in	1 ¼ in	³⁄₁₆ in	**44ZZ69**	**45AA68**
½ in	1 ⅛ in	¼ in	**45AD19**	**45AE23**
1 in	⅞ in	³⁄₁₆ in	—	**45AC46**
1 ³⁄₁₆ in	1 ¼ in	³⁄₁₆ in	**45AD72**	—
Single Fin Vinyl				
¾ in	1 ⅛ in	¼ in	**45AA15**	**45AD78**

Double Door Weatherstripping

Seals the space between wood and metal double doors.

Nylon Brush Insert—Mesh the insert together to seal a gap.

EPDM Insert—Overlaps to seal the gap. Sold in sets of 2 strips.

Pile Insert—Spring-loaded polypropylene insert adjusts in 1/8" increments for proper fit.

Solid Metal Flat Astragal—Mounts to stationary door. Covers gap between double doors.

Magnetic Insert—Seals gap between 80" to 96" doors with a magnet and detaches when door opens.

Flange Width	Insert Size	Projection	Flange Thickness	Max. Door Gap	8-FT. LENGTH	7-FT. LENGTH
Nylon Brush Insert						
Anodized Aluminum Flange						
5/8 in	7/16 in	1/4 in	3/64 in	1/8 in	**2RRP4**	—
5/8 in	7/16 in	1/4 in	3/16 in	3/4 in	**3HRF7**	—
Aluminum Flange						
5/8 in	7/16 in	1/4 in	3/64 in	1/8 in	—	**2RRP5**
EPDM Insert						
Anodized Aluminum Flange						
15/16 in	5/8 in	3/16 in	3/16 in	1/4 in	**5MUL2**	**5MUL1**
Dark Bronze Aluminum Flange						
15/16 in	5/8 in	3/16 in	3/16 in	1/4 in	**5MUL4**	**5MUL3**
Pile Insert						
Anodized Aluminum Flange						
7/16 in	1/8 in	9/16 in	1 9/16 in	9/16 in	**3HRG2**	**3HRG1**
Solid Metal Flat Astragal						
Primed-Finish Steel						
2 in	—	1/8 in	1/8 in	1/8 in	**3HRH3**	**3HRH2**
Primed-Aluminum						
2 in	—	1/8 in	—	1/8 in	**2RRR5**	—
Magnetic Insert						
Anodized Aluminum						
2 1/4 in	1/4 in	11/16 in	5/64 in	1/8 in	**5MUK8**	**5MUK7**

2RRP5

3HRG1

Stays Flexible to	Flange Material	Insert Color	Flange Height	Insert Size	Projection	Flange Thickness	▶CHOOSE: Overall Length	Item No.
Neoprene								
-20° to 200°F	Aluminum	Black	5/8 in	1/2 in	11/16 in	1/16 in	3 ft, 4 ft, 7 ft, 8 ft	**J5646**
-20° to 200°F	Stainless Steel	Black	1/4 in	1/4 in	3/16 in	1/32 in	3 ft, 4 ft, 7 ft, 8 ft	**J5647**
-20° to 200°F	Aluminum	Black	5/16 in	1/8 in	5/16 in	3/32 in	3 ft, 4 ft, 7 ft, 8 ft	**J5648**
-20° to 200°F	Stainless Steel	Black	1/4 in	1/8 in	3/16 in	1/32 in	7 ft, 8 ft	**J5649**
Nylon								
-70° to 425°F	Aluminum	Gray	5/16 in	1/2 in	5/8 in	1/16 in	3 ft, 4 ft, 7 ft, 8 ft	**J5650**
-70° to 425°F	Aluminum	Gray	5/16 in	1/2 in	5/8 in	1/16 in	3 ft, 4 ft, 7 ft, 8 ft	**J5651**
-70° to 425°F	Aluminum	Gray, Black	1/4 in	7/16 in	1/4 in	1/16 in	9 ft, 7 ft, 8 ft	**J5652**
Silicone								
—	Aluminum	Gray	—	1/4 in	1/2 in	1/16 in	7 ft, 4 ft	**J5716**
-100°F	Aluminum	Black	5/16 in	1/8 in	5/16 in	3/32 in	3 ft, 4 ft, 7 ft, 8 ft	**J5653**
-100°F	Aluminum	Gray	1/4 in	5/16 in	5/16 in	1/16 in	3 ft, 4 ft, 7 ft, 8 ft	**J5654**
-100°F	Aluminum	Black	5/16 in	5/16 in	5/16 in	1/16 in	4 ft x 7 ft, 6 ft x 7 ft, 8 ft x 7 ft, 3 ft, 4 ft, 7 ft, 8 ft	**J5654**
Vinyl								
0° to 140°F	Aluminum	Gray	1/4 in	1/4 in	1/4 in	1/16 in	3 ft, 4 ft, 7 ft, 8 ft	**J5655**
0° to 140°F	Aluminum	Gray	1/4 in	1/8 in	1/4 in	1/16 in	7 ft, 8 ft	**J5656**
0° to 140°F	Aluminum	Gray	5/16 in	5/16 in	5/16 in	1/16 in	3 ft x 7 ft, 6 ft x 7 ft, 7 ft	**J5657**
0° to 140°F	Aluminum	Gray	1/4 in	5/16 in	5/16 in	1/4 in	3 ft, 4 ft, 6 ft, 7 ft	**J5658**
0° to 140°F	Aluminum	Gray	1/4 in	5/16 in	5/16 in	1/4 in	3 ft, 4 ft, 6 ft, 7 ft	**J5659**

J5650

J5646

Adjustable Door Frame Weatherstripping

Adjustable door frame weatherstrip creates an interior sound seal on doors that do not sit plumb and square. Use with wood fire doors rated for 90 min. and metal fire doors rated for 3 hr.

Door Frame Weatherstripping

Mounts on top and sides of door frame to seal gaps.

Hollow Bulb Inserts—Compress easily, stay flexible in extremely low temperatures.

Sponge Insert—Material provides a dense, abrasion-resistant seal.

Flexible Nylon Brush—Dense fibers fill gaps and help keep out insects.

Magnetic—Flexible, vinyl-covered magnet seals against metal doors.

Corrosion-Resistant—Stainless steel flange holds up to harsh weather.

Kerf—Conforms to irregular surfaces to create a tight seal. Installs in kerf-in door stop. For use with steel doors.

Adjustable—Creates an interior sound seal on doors that do not sit plumb and square. Use with wood fire doors rated for 90 min. and metal fire doors rated for 3 hr.

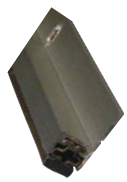
Overall Length	Flange Finish	Insert Color	Flange Height	Flange Thickness	Insert Size	Projection	Item No.
Adjustable, Neoprene w/Aluminum Flange							
3 ft	Aluminum	Black	1 1/4 in	1/2 in	1/4 in	1/2 in	**5MUH1**
4 ft	Aluminum	Black					**5MUH2**
6 ft	Dark Bronze	Black					**5MUH7**
7 ft	Aluminum	Black					**5MUH4**
Corrosion Resistant, Neoprene w/Stainless Steel Flange							
3 ft	Brushed Stainless	Black	1 3/4 in	1/32 in	1/2 in	3/8 in	**3HRV9**
4 ft	Brushed Stainless	Black					**3HRW1**
7 ft	Brushed Stainless	Black					**3HRW3**
8 ft	Brushed Stainless	Black					**3HRW4**
Flexible Nylon Brush, Nylon Brush w/Anodized Aluminum Flange							
3 ft	Aluminum	Gray	3/4 in	1/16 in	7/16 in	9/16 in	**5MKN5**
3 ft	Dark Bronze	Black					**5MKN9**
4 ft	Aluminum	Gray					**5MKN6**
4 ft	Dark Bronze	Black					**5MKP0**
6 ft	Aluminum	Gray					**5MKN7**
6 ft	Dark Bronze	Black					**5MKP1**
7 ft	Aluminum	Gray					**5MKN8**
7 ft	Dark Bronze	Black					**5MKP2**
Flexible Nylon Brush, Nylon w/Anodized Aluminum Flange							
3 ft	Clear	Gray	7/16 in	1/16 in	5/8 in	9/32 in	**3EGY6**
3 ft	Dark Bronze	Black					**3EGZ2**
4 ft	Clear	Gray					**3EGY7**
4 ft	Dark Bronze	Black					**3EGZ3**
7 ft	Dark Bronze	Black					**3EGZ5**
8 ft	Dark Bronze	Black					**3EGZ6**
Hollow Bulb, Neoprene w/Anodized Aluminum Flange							
3 ft	Clear	Black	7/8 in	5/64 in	5/16 in	3/16 in	**3EGW4**
3 ft	Aluminum	Black	1 1/2 in	1/4 in	3/16 in	1/4 in	**5MKP3**
3 ft	Dark Bronze	Black					**5MKP7**
4 ft	Clear	Black	7/8 in	5/64 in	5/16 in	3/16 in	**3EGW5**
4 ft	Aluminum	Black	1 1/2 in	1/4 in	3/16 in	1/4 in	**5MKP4**
4 ft	Dark Bronze	Black					**5MKP8**
6 ft	Aluminum	Black					**5MKP5**
6 ft	Dark Bronze	Black					**5MKP9**
7 ft	Clear	Black	7/8 in	5/64 in	5/16 in	3/16 in	**3EGW7**
7 ft	Aluminum	Black	1 1/2 in	1/4 in	3/16 in	1/4 in	**5MKP6**
7 ft	Dark Bronze	Black					**5MKR0**
8 ft	Clear	Black	7/8 in	5/64 in	5/16 in	3/16 in	**3EGW8**

Overall Length	Flange Finish	Insert Color	Flange Height	Flange Thickness	Insert Size	Projection	Item No.
Hollow Bulb, Silicone w/Anodized Aluminum Flange							
4 ft	Clear	Black	7/8 in	5/64 in	5/16 in	3/16 in	**3EGV9**
7 ft	Clear	Black					**3EGW2**
8 ft	Clear	Black					**3EGW3**
Hollow Bulb, Sponge Silicone w/Anodized Aluminum Flange							
3 ft	Clear	Black	3/4 in	1/16 in	1/4 in	1/4 in	**3EGW9**
4 ft	Clear	Black					**3EGX1**
7 ft	Clear	Black					**3EGX3**
8 ft	Clear	Black					**3EGX4**
Hollow Bulb, Vinyl w/Unfinished Aluminum Flange							
3 ft	Clear	Gray	1/2 in	1/16 in	1/4 in	1/4 in	**3EGX5**
4 ft	Clear	Gray					**3EGX6**
7 ft	Clear	Gray					**3EGX8**
8 ft	Clear	Gray					**3EGX9**
Kerf, Polyurethane Foam							
81 in	—	White	1/2 in	1/4 in	1/2 in	13/16 in	**2RRT3**
81 in	—	Brown					**2RRT4**
Kerf, TPR Vinyl Magnetic							
—	Mill	Brown	5/8 in	1/4 in	1/2 in	3/8 in	**2RRP2** *
16 1/2 ft	Mill	Beige					**2RRP1** *
Magnetic w/Anodized Aluminum Flange							
3 ft	Clear	Black	1 1/8 in	1/16 in	3/16 in	5/8 in	**3EGZ7**
3 ft	Dark Bronze	Black					**3EHA2**
4 ft	Clear	Black					**3EGZ8**
4 ft	Dark Bronze	Black					**3EHA3**
7 ft	Dark Bronze	Black					**3EHA5**
8 ft	Dark Bronze	Black					**3EHA6**
Sponge, Polyurethane Foam w/Aluminum Flange							
17 ft	Powder Coated	Brown	1 1/8 in	1/4 in	3/4 in	5/8 in	**2RRT2** †
17 ft	Mill	White					**2RRT1** †
Sponge, Sponge Neoprene w/Anodized Aluminum Flange							
3 ft	Clear	Black	1 in	1/16 in	3/8 in	11/16 in	**3EGY1**
4 ft	Clear	Black					**3EGY2**
7 ft	Clear	Black					**3EGY4**
8 ft	Clear	Black					**3EGY5**
Vinyl w/Unfinished Aluminum Flange							
7 ft	—	Gray	7/8 in	3/16 in	9/32 in	9/32 in	**1VZR8** †

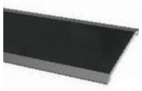
** Set includes two 82" side door strips and one 36" top door strip. † Set includes two 84" side strips and one 36" top strip.*

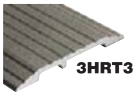
3EGY1

3EGY6



3EGZ7


5MUN6

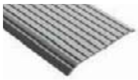

3HRT3

5MFH7

1VZR4

3HRT8

5EPD7


5MUN9

Finish	W	H	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.
Saddles—Plain Top					
Aluminum	2 ½ in	¼ in	**2RRK7** *	**3HRN1**	**3HRN2**
Aluminum Mill	3 in	¼ in	**5MUN3**	**5MUN4**	**5MUN5**
Dark Bronze	3 in	¼ in	**5MUN6**	**5MUN7**	**5MUN8**
Saddles—Fluted Top					
Aluminum	4 in	½ in	**3HRN3**	**3HRN4**	**3HRN5**
Aluminum	4 in	½ in	**1VZR2** †	—	**2RRK8**
Aluminum	4 in	¼ in	**3HRP9**	**3HRR1**	**3HRR2**
Aluminum	5 in	½ in	**1VZR3** †	**3HRP1**	**2RRL2**
Aluminum	5 in	¼ in	**3HRN6**	**3HRN7**	**3HRN8**
Aluminum	5 in	¼ in	**2RRK9** †	—	—
Aluminum	6 in	½ in	**2RRL3** †	**3HRP4**	**2RRL4**

** Not UL Classified. † Heavy-duty aluminum.*

Saddles and Door Thresholds

- Additional thresholds available on Grainger.com

Fill and cover gaps under doors.

Finish	W	H	3-FT. LENGTH Item No.	4-FT. LENGTH Item No.	6-FT. LENGTH Item No.
Aluminum	6 in	¼ in	**5MFJ4**	—	**5MFJ5**
Aluminum	7 in	½ in	**3HRP6**	**3HRP7**	**3HRP8**
Aluminum	6 ¾ in	½ in	**3HRR3** †	**3HRR4** †	**3HRR5** †
Nonskid Aluminum	5 in	½ in	**3HRT3** †	**3HRT4** †	**3HRR8**
Mill	5 in	¼ in	—	—	**2RRL1**
Surface Mount Threshold					
Aluminum	1 ¾ in	⅛ in	**5MFH7**	—	—
Vinyl Insert Thresholds					
Aluminum	3 ¼ in	¾ in	**1VZR4** *	—	—
Panic Exit Thresholds					
Aluminum	5 in	½ in	**3HRT8**	**3HRU1**	**3HRU2**
Solid Vinyl Thresholds					
Matte	3 7⁄16 in	23⁄32 in	**5EPD7**	—	—
Door Bumper Thresholds					
Aluminum	3 1/6 in	⅝ in	**2RRL7** *	—	—
Aluminum	5 in	½ in	—	**3HRU4**	—
Aluminum Mill	5 in	1 in	**5MUM1**	**5MUM2**	**5MUM3**
Aluminum Mill	5 in	⅞ in	**5MUM7**	**5MUM8**	**5MUM9**
Offset Thresholds					
Aluminum Mill	5 ½ in	½ in	**5MUN9**	**5MUP0**	**5MUP1**
Dark Bronze	5 ½ in	½ in	**5MUP2**	**5MUP3**	**5MUP4**

45AA54

Saddles and Door Thresholds

NGP NATIONAL GUARD PRODUCTS

Features fluted top to fill and cover gaps under doors. Aluminum construction.

W	H	3 ft LENGTH Item No.	4 ft LENGTH Item No.	6 ft LENGTH Item No.
5 in	¼ in	**45AE53**	**45AC60**	**44ZZ80**
5 in	½ in	**45AC27**	**44ZZ27**	**45AD39**
6 in	¼ in	**45AE59**	**45AA54**	**45AC82**
8 in	¼ in	**45AC22**	**45AA03**	**45AA95**
8 in	½ in	**44ZZ50**	**45AC39**	**45AC80**
10 in	½ in	**44ZZ65**	**45AC30**	**45AD23**

Drywall
2VE72

Plastic
5YM02

Standard, Steel
1UEX1

TOUGH GUY

Access Doors

Conceal wall openings with a secure cover that can be finished to match wall color.

ACOUSTICAL, FOR DRYWALL

16-ga. steel door with continuous piano hinge. Allen hex head operated cam latch.

ADJUSTABLE

20-ga. steel door. Adjustable by 1½" in height and width. Magnetic latching mechanism.

DRYWALL

16-ga. door and frame with drywall corner bead flange. Flush mounted with concealed pin hinge. Screwdriver operated cam latch.

FIRE-RATED, INSULATED, STANDARD

16-ga. steel frame and 20-ga. steel door with automatic panel closer and inside release. Self latching tool or ring operated slam latch. 2" mineral wool insulation for a 2-hr. fire barrier and 1½-hr., B label. Fire rating of 1½ hr. in walls, 3 hr. in noncombustible ceilings and 1 hr. in combustible ceilings.

Upward-Swinging— For ceilings only. Same as fire rated insulated model but the panel swings up and shuts down by way of gravity instead of springs.

FIRE-RATED, UNINSULATED, STANDARD

16-ga. steel door for vertical fire-rated surface only where temperature rise protection is not required. Fire rating of 1½ hr. B-Label for 2-hr. rated walls.

HIDDEN FLANGE

16-ga. exclusive steel door. Flush mount with european-type hinge. Screwdriver-operated cam latch.

INSULATED, ALUMINUM

16-ga., corrosion-resistant aluminum door and frame. Feature 1"-thick insulation and gasket around perimeter.

MEDIUM SECURITY

14-ga. steel with baked-on paintable prime coat. Continuous piano hinge and key-operated cylinder lock.

PLASTIC

High-impact, noncorrosive ABS plastic doors are UV stabilized for exterior use. 5YM02 has punch-outs for electric and plumbing.

STANDARD

Steel—16-ga. steel door with flush-mount doors with pin hinge (continuous piano hinge for 2VE87 and 2VE88). Screwdriver-operated cam latch.

Stainless Steel— Corrosion-resistant door and frame.

Door Dim. W	Door Dim. H	Rough Opening W	Rough Opening H	Item No.
Acoustical For Drywall				
Hex Head Cam Latch				
8 in	8 in	8 ¼ in	8 ¼ in	**16M220**
12 in	12 in	12 ¼ in	12 ¼ in	**16M221**
24 in	24 in	24 ¼ in	24 ¼ in	**16M222**
Adjustable				
(4) Magnets				
14 in to 15 ½ in	15 ½ in	14 in	14 in to 15 ½ in	**20TL34**
Drywall				
Screwdriver Operated Cam Latch				
8 in	8 in	8 ⅜ in	8 ⅜ in	**2VE75**
12 in	12 in	12 ⅜ in	12 ⅜ in	**2VE72**
16 in	16 in	16 ¼ in	16 ¼ in	**16M207**
18 in	18 in	18 ⅜ in	18 ⅜ in	**2VE73**
24 in	24 in	24 ⅜ in	24 ⅜ in	**2VE74**
Fire-Rated, Insulated, Standard				
Self-Latching Tool Key and Ring Operated Slam Latch				
8 in	8 in	8 ¼ in	8 ¼ in	**16M205**
12 in	12 in	12 ¼ in	12 ¼ in	**5YL98**
16 in	16 in	16 ¼ in	16 ¼ in	**5YL99**
18 in	18 in	18 ⅜ in	18 ¼ in	**2VE76**
22 in	30 in	22 ¼ in	30 ¼ in	**5YM01**
22 in	36 in	22 ⅜ in	36 ⅜ in	**2VE77**
24 in	24 in	24 ¼ in	24 ¼ in	**16M206**
Fire-Rated, Insulated, Upward-Swinging				
Hex Head Slam Latch Outside and Self-Latching Ring Operated Slam Latch Inside				
22 in	30 in	22 ⅜ in	30 ⅜ in	**2VE78**
22 in	36 in	22 ⅜ in	36 ⅜ in	**2VE79**
24 in	24 in	24 ⅜ in	24 ⅜ in	**2VE80**
Fire-Rated, Uninsulated, Standard				
Self-Latching Tool Key and Ring Operated Slam Latch				
8 in	8 in	8 ¼ in	8 ¼ in	**16M215**
12 in	12 in	12 ¼ in	12 ¼ in	**16M216**
16 in	16 in	16 ¼ in	16 ¼ in	**16M217**
18 in	18 in	18 ¼ in	18 ¼ in	**16M218**
24 in	24 in	24 ¼ in	24 ¼ in	**16M219**
Hidden Flange				
Screwdriver Operated Cam Latch				
8 ¼ in	8 ¼ in	8 ½ in	8 ½ in	**16M209**
12 in	12 in	12 ¼ in	12 ¼ in	**16M210**
14 in	14 in	14 ¼ in	14 ¼ in	**16M211**
16 in	16 in	16 ¼ in	16 ¼ in	**16M212**
18 in	18 in	18 ¼ in	18 ¼ in	**16M213**
24 in	24 in	24 ¼ in	24 ¼ in	**16M214**

** Includes cylinder lock and key.*

Door Dim. W	Door Dim. H	Rough Opening W	Rough Opening H	Item No.
Insulated, Aluminum				
Cylinder Lock and Key				
8 in	8 in	8 ⅜ in	8 ⅜ in	**2VE89**
12 in	12 in	12 ⅜ in	12 ⅜ in	**2VE90**
16 in	16 in	16 ⅜ in	16 ⅜ in	**2VE91**
18 in	18 in	18 ⅜ in	18 ⅜ in	**2VE92**
24 in	24 in	24 ⅜ in	24 ⅜ in	**2VE93**
Medium Security, Flush				
Key Operated Cylinder Cam Latch				
12 in	12 in	12 ½ in	12 ½ in	**1UEV7**
16 in	16 in	16 ½ in	16 ½ in	**1UEV8**
18 in	18 in	18 ½ in	18 ½ in	**1UEV9**
24 in	24 in	24 ½ in	24 ½ in	**1UEX2**
Plastic				
Snap Friction Catch				
6 in	9 in	6 ⅜ in	9 ⅜ in	**5YM02**
14 in	14 in	14 ⅜ in	14 ⅜ in	**5YM03**
14 in	29 in	14 ⅜ in	29 ⅜ in	**2VE81**
Standard, Stainless Steel				
Screwdriver Operated Cam Latch				
10 in	10 in	10 ⅜ in	10 ⅜ in	**2VE82**
16 in	16 in	16 ⅜ in	16 ⅜ in	**2VE83**
Standard, Steel				
Key Operated Cylinder Cam Latch				
12 in	12 in	12 ⅜ in	12 ⅜ in	**1UEW7** *
14 in	14 in	14 ¼ in	14 ¼ in	**1UEW8** *
16 in	16 in	16 ⅜ in	16 ⅜ in	**1UEW9** *
18 in	18 in	18 ¼ in	18 ¼ in	**16M208** *
24 in	24 in	24 ⅜ in	24 ⅜ in	**1UEX1** *
Screwdriver Operated Cam Latch				
8 in	8 in	8 ¼ in	8 ¼ in	**5YL92**
10 in	10 in	10 ¼ in	10 ¼ in	**5YL93**
12 in	12 in	12 ¼ in	12 ¼ in	**5YL94**
14 in	14 in	14 ¼ in	14 ¼ in	**5YL95**
16 in	16 in	16 ¼ in	16 ¼ in	**5YL96**
16 in	24 in	16 ⅜ in	24 ⅜ in	**2VE84**
18 in	18 in	18 ⅜ in	18 ⅜ in	**2VE85**
18 in	24 in	18 ⅜ in	24 ⅜ in	**2VE86**
24 in	24 in	24 ¼ in	24 ¼ in	**5YL97**
24 in	36 in	24 ¼ in	36 ¼ in	**2VE87**
36 in	36 in	36 ¼ in	36 ¼ in	**2VE88**

Rubber Door Wedges

Slide under door to hold it in open position.

Giant Foot

Finish	L	H	Brand	Item No.	Pkg. Qty.
Gray	4 ¾ in	1 ¼ in	Master	**4JG43**	2
Gray	6 in	1 13⁄16 in	—	**1XNN8**	1
Brown	4 in	1 5⁄16 in	—	**1RCU4**	1
Brown	5 ⅛ in	1 ½ in	—	**1XNN7**	1
Brown	6 ¾ in	2 in	Giant Foot	**8CD16**	1
Orange	6 ¾ in	2 in	Giant Foot	**9EVL1**	1
Safety Yellow	6 ¾ in	2 in	Master	**4JG44**	2

Lever/Drop-Down Style Door Holders

1XNK8

1XNK7

3HHU2

Keep holder in raised position for normal door operation; lower holder to hold door in an open position. 33J797 is a replacement bumper for 33J791 through 33J799.

Finish	Material	Projection	Brand	Item No.
Chrome	Zinc	4 in	—	**1XNK8**
Satin Chrome	Solid Brass	3 ⅝ in	—	**33J791**
Satin Chrome	Brass	4 in	—	**5U618**
Satin Chrome	Solid Brass	4 ⅝ in	—	**33J793**
Bright Brass	Brass	4 in	—	**4JG77**
Brass	Zinc	5 in	—	**1RCP8**
Polished Brass	Solid Brass	3 ⅝ in	—	**33J792**
Polished Brass	Cast Zinc	4 in	—	**33J799**
Polished Brass	Solid Brass	4 ⅝ in	—	**33J796**
Satin Brass	Solid Brass	4 ⅝ in	—	**33J794**
Copper	Cast Zinc	4 in	—	**33J798**
Painted	Zinc	4 in	—	**1XNK7**
Gray	Rubber	—	—	**33J797**
Satin Chrome	Cast Brass	3 ⅝ in	Rockwood	**3HHU2**
Satin Chrome	Cast Brass	4 ⅝ in	Rockwood	**3HHU4**
Polished Brass	Cast Zinc	4 in	Rockwood	**3HHV1**

3HJL2

3HJL6

Push and Pull Bars

- Fit doors 1¾" thick or less
- Include hardware

Designed to fit together. Heavy-duty models are solid metal; standard-duty are 0.065"-thick wall tubing. Models with antimicrobial finish hinder growth of mold and bacteria.

Description	SATIN Item No.	POLISHED Item No.	BRONZE Item No.
Heavy-Duty			
Offset Pull Handle, Antimicrobial, Heavy-Duty, 90 Degrees Offset , 9"	**3HJL3**	—	—
Offset Pull Handle, Antimicrobial, Heavy-Duty, 90 Degrees Offset , 10"	**3HJK8**	—	—
Push Bar, Antimicrobial, 33"	**3HJL7**	—	—
Offset Pull Handle, 9"	**3HJL2**	**3HJK9**	**3HJL1**
Offset Pull Handle, 10"	**3HJK7**	**3HJK5**	**3HJK6**
Push Bar, 33"	**3HJL6**	**3HJL4**	**3HJL5**
Standard-Duty			
Offset Pull Handle, 9"	**3HJN1**	**3HJN2**	—
Offset Pull Handle, 10"	**3HJL8**	**3HJL9**	—
Push Bar, 33"	**3HJN3**	**3HJN4**	—

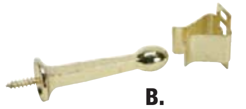
Plunger-Style Door Holders

Satin Chrome

Easy step-on-and-off action. Step on the holder to keep door in place.

Finish	H	W	Projection	Brand	Item No.
Polished Brass	5 ⅝ in	2 ¼ in	1 ¼ in	—	**33J802**
Satin Bronze	5 ⅝ in	2 ½ in	1 ¼ in	—	**33J803**
Satin Chrome	5 ⅜ in	1 ⅜ in	1 ⅞ in	Rockwood	**3HHV2**
Satin Chrome	5 ⅝ in	2 ¼ in	1 ¼ in	—	**33J801**

A.
3EHX2



B.
1XNK9

C.
33J787

D.
33J788

E.
33J818

Automatic Door Holders

Push door open until holder and strike engage.

Key	Finish	Holder Base H	Holder Base W	Holder Base Proj.	Strike Base H	Strike Base W	Strike Base Proj.	Item No.
Wall-Mount								
A	Stainless Steel	1 ⅝ in	2 ¾ in	1 ⅜ in	1 ⅝ in	1 ⅜ in	1 ⅝ in	**3EHX2**
B	Brass	1 ½ in	¾ in	1 ⅜ in	1 in	1 in	3 in	**1XNK9**
C	Satin Chrome	2 ½ in	2 ¾ in	2 ⅛ in	2 in	1 in	2 in	**33J787**
D	Satin Chrome	3 ½ in	3 in	2 in	3 in	2 in	3 in	**33J788**
D	Polished Brass	2 ¾ in	2 ½ in	2 ⅛ in	2 in	3 in	3 ¼ in	**3HHV9**
Floor-Mount								
E	Satin Chrome	3 ½ in	3 in	2 in	4 ⅛ in	2 ¼ in	1 ¼ in	**33J818**
E	Satin Bronze	3 ½ in	3 in	2 in	4 ⅛ in	2 ¼ in	1 ¼ in	**33J789**

B.
1XNP7

B.
1XNP4

C.
3EHX5

D.
3EHF7

E.
3EHW6

Magnetic Door Holders

Door holders contain a magnet, eliminating the need to bend down to fasten or release the door.

Key	Finish	Base Dia.	Holder Proj.	Strike Proj.	Magnetic Strength	Item No.
Wall-Mount						
B	Chrome	1 ¾ in	3 in	⅝ in	15.4 lb	**1XNP7**
B	Satin Nickel	1 ¾ in	⅝ in	3 in	15.4 lb	**1XNP5**
B	Brass	1 ¾ in	⅝ in	3 in	15.4 lb	**1XNP8**
B	Antique Bronze	1 ¾ in	⅝ in	3 in	15.4 lb	**1XNP4**
Wall- and Floor-Mount						
C	Stainless Steel	1 ⅞ in	1 ⅞ in	¾ in	23.4 lb	**3EHX5**
C	Stainless Steel	2 in	3 ½ in	¾ in	23.4 lb	**3EHX6**
D	Plastic	1 ¾ in	¾ in	3 in	15.4 lb	**33J783**
D	Plastic	2 5⁄32 in	13⁄16 in	3 in	26.4 lb	**3EHF7**
D	Brown	2 5⁄32 in	11⁄16 in	3 in	15.4 lb	**1RCU1**
E	Nylon	1 ½ in	¾ in	¾ in	19.8 lb	**3EHW6**
E	Nylon	1 ½ in	¾ in	¾ in	19.8 lb	**3EHW7**

A.
3EHW8

B.
3HHT5

C.
3EHX1

D.
5U616

D.
3HHT8

Hook-Style Door Holders

Latch the hook to hold door in an open position.

Key	Finish	Base Dia.	H	Projection	Item No.
Wall-Mount					
A	Stainless Steel	2 in	—	2 ½ in	**3EHW8**
A	Stainless Steel	2 in	—	3 ⅜ in	**3EHW9**
B	Satin Chrome	2 ¼ in	—	3 19⁄32 in	**5U610**
B	Bright Brass	2 in	—	3 19⁄32 in	**5U611**
B	Satin Chrome	2 ¼ in	1 ¾ in	3 ¾ in	**3HHT7**
B	Polished Brass	2 ¼ in	1 ¾ in	3 ¾ in	**3HHT5**
B	Satin Bronze	2 ¼ in	1 ¾ in	3 ¾ in	**3HHT6**
Floor-Mount					
C	Stainless Steel	2 in	2 ⅝ in	2 in	**3EHX1**
D	Satin Chrome	2 7⁄32 in	3 15⁄16 in	3 15⁄16 in	**5U616**
D	Bright Brass	2 7⁄32 in	3 15⁄16 in	3 15⁄16 in	**5U617**
D	Polished Brass	2 ½ in	3 ¾ in	3 ¾ in	**3HHT8**
D	Satin Bronze	2 ½ in	3 ¾ in	3 ¾ in	**3HHT9**
D	Satin Chrome	2 ½ in	3 ¾ in	3 ¾ in	**3HHU1**

A. 33J806

B. 3HHZ3

C. 3HHY1

D. 3HHZ2

E. 5U607

E. 3EHE8

E. 3HHY2

E. 3HHY6

G. 33J809

H. 3HHY4

I. 3HHY8

Floor-Mount Door Stops

ROCKWOOD
ASSA ABLOY

Prevent an opening door from hitting the wall. With nonmarring rubber pads.

Key	Finish	Base Dia.	L	H	W	Brand	Item No.	
Standard								
A	Polished Brass	—	2 ⅝ in	2 ¾ in	1 ⅝ in	—	33J806	
A	Satin Chrome	—	2 ⅝ in	2 ¾ in	1 ⅝ in	—	33J807	
B	Satin Chrome	2½ in	—	3 in	—	Rockwood	3HHZ3	
B	Polished Brass	2½ in	—	3 in	—	Rockwood	3HHZ4	
B	Satin Bronze	2½ in	—	3 in	—	Rockwood	3HHZ5	
C	Zinc-Plated	1 in x 2½ in	2 ½ in	2 ⅝ in	1 in	Rockwood	3HHY1	
Dome Door Stops								
D	Satin Chrome	2 in x 4 in	4 in	1 ⅛ in	2 in	Rockwood	3HHZ2	
E	Satin Chrome	1⅞ in	—	1 ⅛ in	—	Rockwood	3EHF2	
E	Satin Chrome	1¾ in	—	1 in	—	—	5U606	
E	Satin Chrome	1¾ in	—	1 ¼ in	—	—	5U608	
E	Satin Chrome	1⅞ in	—	1 ½ in	—	Rockwood	3EHF1	
E	Bright Brass	1¾ in	—	1 in	—	—	5U607	
E	Bright Brass	1¾ in	—	1 ¼ in	—	—	5U609	
E	Polished Brass	1⅞ in	—	1 ½ in	—	Rockwood	3EHE8	
E	Satin Bronze	1⅞ in	—	1 ⅛ in	—	Rockwood	3HHY2	
E	Satin Bronze	2 in	—	1 ½ in	—	Rockwood	3HHY3	
Dome Door Stops with ⅜" Risers								
E	Satin Chrome	2 in	—	1 ½ in	—	Rockwood	3HHY6	
Dome Door Stops with 7/16 in Risers								
E	Satin Chrome	1¾ in	—	1 in	—	—	33J784	
E	Satin Chrome	1¾ in	—	1 ½ in	—	—	33J786	
Dome Door Stops with 7/16" Risers								
E	Polished Brass	1¾ in	—	1 ½ in	—	—	33J814	
E	Satin Bronze	1¾ in	—	1 ½ in	—	—	33J815	
Rubber Bumper Door Stops								
G	Satin Chrome	1¼ in	—	1 ½ in	—	—	33J809	
H	—	2 in	—	1 ½ in	—	Rockwood	3HHY4	*
I	Satin Chrome	3¼ in	—	3 in	—	Rockwood	3HHY8	*

** Mounting bolt size for 3HHY4 is ⅝" x 2½", 3HHY8 is ½" x 4½".*

A. 3HHX3

A. 5U615

B. 4JG95

C. 3HHX1

D. 1XNN6

Circular-Mount Door Stops

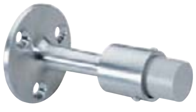
Protect walls from damage caused by door knobs and levers.

Key	Finish	Base Dia.	Projection	Item No.
Concave Door Stop				
A	Satin Stainless Steel	2½ in	1 in	3HHX3
A	Satin Chrome	2⅜ in	1 in	5U614
A	Bright Brass	2⅜ in	1 in	5U615
A	Satin Bronze	2½ in	1 in	3HHX4
B	Rubber	1⅞ in	1 in	4JG96
B	Rubber	1⅞ in	1 in	4JG95
Convex Door Stop				
C	Satin Stainless Steel	2½ in	1 in	3HHX1
C	Satin Bronze	2½ in	1 in	3HHX2
C	Satin Chrome	1 in	½ in	4JG91
C	Bright Brass	1 in	½ in	4JG87
D	White	2¼ in	1 in	1XNN4
D	—	2¼ in	1 in	1XNN6

A. 4JG90

B. 1XNP3

C. 1XNL4



D. 3HHZ6

E. 1RCR7

F. 1XNL8

G. 1RCT2

G. 1XNN2

Wall-Mount Door Stops

Prevent damage to walls and door hardware.

Key	Finish	Base Dia.	Projection	Item No.
Rigid				
A	Natural Aluminum/Bright Brass	1 in	3 in	4JG90
A	Bright Brass	1 in	3 in	4JG88
B	Oil-Rubbed Bronze	1 in	3 in	1XNP3
C	Satin Nickel	1 in	3 ⅛ in	1XNL4
C	Oil-Rubbed Bronze	1 in	3 ⅛ in	1XNL3
D	Satin Chrome	2¼ in	3 ¾ in	3HHZ6
D	Polished Brass	2¼ in	3 ¾ in	3HHZ7
D	Satin Bronze	2¼ in	3 ¾ in	3HHZ8
E	Satin Chrome	1 in	4 in	1RCR7
E	Brass	1 in	4 in	1RCR3
Spring				
F	Chrome	1 in	3 in	1XNL8
F	Bright Brass	1 in	3 in	4JG94
G	Brass	1 in	3 in	1RCT2
G	Satin Nickel	1 in	3 in	1XNN3
G	Oil-Rubbed Bronze	1 in	3 in	1XNN2

Curved Roller Door Stops

Used when doors swing into one another at an odd angle. Roller bumper prevents marring.

Finish	L	H	W	Item No.
Satin Chrome	5 in	2 ⅝ in	1 ⅝ in	33J812

1XNK6

4JG86

1RCT5

Hinge Pin Door Stops

Mount to door hinges to prevent wall damage.

Finish	Door Opening Adjustment	Item No.
Standard		
Chrome	35° to 90°	1XNK6
Antique Brass	35° to 90°	1XNK4
Brass	50° to 100°	1RCT5
Oil-Rubbed Bronze	50° to 100°	1XNN9
Brass	85° to 125°	4JG86
Hinge Pin		
Nickel-Plated	71° to 100°	33J804
Bright Brass	71° to 100°	33J805

1HEX1

Swinging Bar Door Guards

Privacy latches include hardware.

L	W	Finish	Material	Item No.
4 ¼ in	2 ½ in	Polished Brass	Zinc	1HEX1
5 ⅜ in	2 ⅝ in	Polished Brass	Cast Brass	3HJE9
5 ⅜ in	2 ⅝ in	Satin Chrome	Cast Brass	3HJF1
5 ⅜ in	2 ⅝ in	Satin Brass	Cast Brass	3HJF2

Chain Door Guards

Include hardware.

1HEX7

L	W	Finish	Item No.
3 ⅜ in	1 ½ in	Brass	1HEX5
3 ⅜ in	1 ½ in	Satin Chrome	1HEX7

Door Frame Silencers

4JG85

3HHX5

Rubber construction. 4JG85 is for metal frames only; 3HHX5 is for wood frames only; 3HHX6 is for all frame types.

Color	H	Item No.	Pkg. Qty.
Gray	½	4JG85	10
Gray	¾ in	3HHX5	100
Clear	⅛ in	3HHX6	300

1HEW3

1HEW9

3HJH5

3HJH7

Door Viewers and Knockers

Description	Viewing Angle	Mounting Hole Dia.	Finish	Item No.
Standard Viewers	120 °	½ in	Satin Brass	4JG99
	160 °	1 ½ in	Bronze	1HEW9
1½-hr. UL Fire Rating Viewers	160 °	½ in	Brass	1HEW1
	200 °	9⁄16 in	Brass	1HEW3
	160 °	½ in	Satin Chrome	1HEW5
Door Knockers with Viewer	190 °	—	Polished Clear	3HJH5
	190 °	—	Satin Chrome	3HJH6
Door Knockers	—	—	Polished Clear	3HJH7
	—	—	Satin Chrome	3HJH8

Barrier-Free Grip Door Pull Plate

Door Push Plate

Oval Grip Door Pull Plate

Round Grip Door Pull Plate

Thru Bolt Door Pull

Pull and Push Plates and Door Pulls

- Plates come with mounting holes and screws
- Barrier-free pull plates have additional space between handle and plate

Protect doors in high traffic areas. Pull plates and door pulls are easy to grasp with 1 hand and require no twisting of the wrist or tight grasping to operate.

W	L	Proj.	DULL TYPE 316 STAINLESS STEEL Item No.	DULL TYPE 304 STAINLESS STEEL Item No.	DULL ALUMINUM Item No.	POLISHED BRASS Item No.	POLISHED SILVER BRASS Item No.
Barrier-Free Grip Door Pull Plates							
3 in	12 in	0.05 in	—	2RGR6	—	2RGR9	—
3 ½ in	15 in	0.125 in	2RGU6	—	2RGU7	—	—
4 in	16 in	0.05 in	2RGW5	2RGW3	—	—	—
Door Push Plates							
3 ½ in	15 in	0.125 in	—	2RGJ8	2RGK9	—	—
4 in	16 in	0.125 in	2RGL6	2RGJ9	2RGL8	2RGN3	—
4 in	20 in	0.05 in	2RGN8	2RGK2	2RGP1	2RGP3	—
4 in	20 in	0.125 in	2RGN7	2RGK1	2RGN9	—	—
3 in	12 in	0.05 in	2RGL5	—	—	2RGN6	—
3 in	12 in	0.125 in	—	2RGJ7	2RGN1	—	—
3 ½ in	15 in	0.05 in	2RGK8	—	2RGL1	2RGL3	—
Oval Grip Door Pull Plates							
3 in	12 in	0.125 in	—	2RGP4	2RGP5	—	—
3 ½ in	15 in	0.05 in	—	5U646	2RGT4	—	2RGT5
3 ½ in	15 in	0.125 in	—	2RGT1	—	—	—
4 in	16 in	0.125 in	—	2RGU9	2RGV1	—	—
3 in	12 in	0.05 in	—	—	—	2RGP8	—
4 in	16 in	0.05 in	—	—	—	2RGV4	—
Rectangle Grip Door Pull Plates							
4 in	16 in	0.05 in	—	5U640	—	2RGV6	—
3 in	12 in	0.05 in	—	—	2RGP9	—	—
3 ½ in	15 in	0.05 in	—	—	2RGT6	2RGT7	—
Round Grip Door Pull Plates							
4 in	16 in	0.05 in	2RGV9	—	—	2RGW2	—
3 in	12 in	0.05 in	—	2RGR2	—	2RGR5	—
3 ½ in	15 in	0.05 in	2RGU1	2RGT8	—	—	—
Thru-Bolt Door Pulls							
—	8 ¾ in	2.25 in	—	5U624	—	—	—

ROCKWOOD®
ASSA ABLOY

5U639

Pull and Push Plates

- Mounting hardware included

Description	Mounting	Material	L	W	Finish	Item No.
Oval Grip Door Pull Plate	Surface Mount Screws	Aluminum	16 in	4 in	Dull	2RGV3
Oval Grip Door Pull Plate	Thru-Bolt	Stainless Steel	16 in	4 in	Dull Type 304	5U648
Rectangle Grip Door Pull Plate	Thru-Bolt	Stainless Steel	12 in	3 in	Dull Type 304	5U639
Round Grip Door Pull Plate	Surface Mount Screws	Aluminum	16 in	4 in	Dull	2RGW1
Thru-Bolt Door Pull	Thru-Bolt	Stainless Steel	6 ¾ in	—	Dull Type 304	5U622
Door Push Plate	Surface Mount Screws	Stainless Steel	16 in	4 in	Dull Type 304	5U633

G3645

G3654

PAWLING ROCKWOOD ASSA ABLOY

Wall Corner Guards

Guards protect wall corners from damage. Have a beveled edge and can be used on all walls. Available in wall- or adhesive-mount. Models with 8 mounting holes include hardware.

Colors: Black, Gray, Silver, Bronze, Almond, Eggshell, Beige Grain, White, Blue Grain, Yellow

W	H	Brand	ADHESIVE MOUNTING ▶CHOOSE: Color	Item No.	8 WALL HOLE MOUNTING ▶CHOOSE: Color	Item No.
Satin						
2 in	48 in	Pawling Corp	Stainless	34AR46	—	—
2 in	96 in	Pawling Corp	Stainless	34AR47	—	—
3 1/2 in	48 in	Pawling Corp	Stainless	34AR44	—	—
3 1/2 in	96 in	Pawling Corp	Stainless	34AR45	—	—
Standard, Flat						
1 in	48 in	—	—	—	White, Black, Yellow, Clear, Silver, Almond, Eggshell	G3648
2 in	48 in	—	Black, Yellow, White, Silver, Almond, Gray, Eggshell	G3649	Clear, Black, White, Almond, Eggshell	G3650
2 in	48 in	Rockwood	Silver	3TFN7	Silver	3TFN3
2 in	96 in	—	White, Almond, Black	G3951	White, Clear, Black, Almond	G3946
3 in	48 in	—	Black, White, Silver, Almond, Gray, Eggshell	G3651	Clear, Black, White	G3652
3 in	48 in	Rockwood	Silver	3TFN9	Silver	3TFN5
4 in	48 in	—	Black, Yellow, Almond, Gray, White, Eggshell	G3653	Black, Yellow, Almond, Clear, White	G3654
1 1/2 in	48 in	—	White	6YDF5	—	—
Bullnose						
2 1/2 in	48 in	—	White, Almond	G3646	Black, Almond, Yellow, Silver	G3645
Grain Texture						
1 1/2 in	96 in	—	White, Beige	G3950	White	G3945
1 1/2 in	48 in	—	White, Beige	G3949	—	—
1 1/2 in	48 in	—	Beige	6YDF6	—	—
Diamond Tread						
3 in	48 in	—	—	—	Silver	G3947
4 in	48 in	—	—	—	Silver	G3948

2-Sided

3-Sided

Finish	H	W	2-Sided Item No.	3-Sided Item No.
Door Edge Guards				
Stainless Steel	36 in	1 3/4 in	3TFJ8 †	3TFJ6 *
Stainless Steel	42 in	1 3/4 in	3TFJ9 †	3TFJ7 *
Stainless Steel	84 in	1 3/4 in	3TFK1 †	—
Stainless Steel	96 in	1 3/4 in	3TFL9 †	—
Anodized Aluminum	36 in	1 3/4 in	3TFL5 †	3TFL1 *
Anodized Aluminum	42 in	1 3/4 in	3TFL6 †	3TFL2 *
Anodized Aluminum	84 in	1 3/4 in	3TFL8 †	—
Anodized Aluminum	96 in	1 3/4 in	3TFN2 †	—
Dark Bronze	36 in	1 3/4 in	3TFL3 †	3TFK8 *
Dark Bronze	42 in	1 3/4 in	3TFL4 †	3TFK9 *
Dark Bronze	84 in	1 3/4 in	3TFL7 †	—
Dark Bronze	96 in	1 3/4 in	3TFN1 †	—
Latching Door Edge Guards				
Stainless Steel	84 in	1 3/4 in	—	2YFH3 *
Stainless Steel	96 in	1 3/4 in	—	2YFH4 *

ROCKWOOD ASSA ABLOY Markar ASSA ABLOY

Door Edge and Bottom Guards

Guards wrap around 1¾" door edge or door bottom to protect it from damage. Mounting hardware included.

Finish	H	W	2-Sided Item No.	3-Sided Item No.
Door Bottom Guards				
Stainless Steel	7 in	29 1/2 in	—	3TFK2 †
Stainless Steel	7 in	31 1/2 in	—	3TFK3 †
Stainless Steel	7 in	35 1/2 in	—	3TFK4 †
Anodized Aluminum	7 in	29 1/2 in	—	3TFK5 †
Anodized Aluminum	7 in	31 1/2 in	—	3TFK6 †
Anodized Aluminum	7 in	35 1/2 in	—	3TFK7 †

** Markar. † Rockwood.*

H3454

H3451

Healthcare Handrails and Wall Guards

PAWLING

Attractive handrails in a variety of styles and colors provide strength and durability. All except H3454 have the option for a continuous security bracket for high-risk environments.

Description	Depth	Overall Height	▶CHOOSE: Color	Mfr. Model	Item No.
Handrails					
Standard Hand Rail	1 1/2 in	3 9/16 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	BR-1200	H3454
Handrail Wall Guards					
Solid Handrail Wall Guard	1 1/2 in	5 1/2 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	BR-500	H3451
Heavy Duty Solid Handrail Wall Guard	1 1/2 in	5 1/2 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	BR-530	H3450
Oval Handrail With Crescent Wall Guard	1 1/2 in	5 1/2 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	BR-600V	H3452

Description	Overall Length	For Use With	▶CHOOSE: Color	Item No.
Accessories				
Handrail Bracket	1 1/2 in	BR-1200	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3481
Continuous Security Bracket	144 in	BR-500/BR-530	Aluminum	43Z697
Continuous Security Bracket	144 in	BR-400V/BR-600V	Aluminum	43Z795

H3456

H3588

Rails and Wall Guards

PAWLING

Rub rails are made of clear polycarbonate that won't distract from the decor, yet offers impact protection. Bumper rail, wall guards, and crash rail are made of colorful vinyl and protect any facility from all types of abuse while providing decorative appeal.

Description	Overall H	Thickness	Overall L	▶CHOOSE: Color	Item No.
Rails					
Rub Rail, CR-3	3 in	0.31 in	96 in	Clear	43Z566
Rub Rail, CR-4	4 in	0.31 in	96 in	Clear	43Z567
Bumper Rail, For Use With H3623, H3624	2 in	1.06 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3456
Crash Rail, For Use With H3621, H3622, 44A007	4 1/8 in	1.88 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3455
Wall Guards					
Wall Guard, For Use With H3607, H3608	2 15/16 in	1 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3588
Wall Guard, For Use with H3609, H3610	4 in	3/4 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3589
Wall Guard, For Use with H3611, H3612	6 in	1 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3590
Wall Guard, For Use with H3615, H3616, H3617	5 in	1 1/16 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3592
Wall Guard, For Use with H3618, H3619, H3620	8 in	1 3/8 in	144 in	Ivory, Tan, Champagne, Eggshell, Silver-Gray, Teal, Linen White, Windsor Blue	H3593

Description	Thickness	H	▶CHOOSE: Color	Item No.
Accessories				
End Cap, Non-Handed	1 1/8 in	2 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3623
End Cap, Non-Handed	1 in	2 15/16 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3607
End Cap, Non-Handed	1 1/16 in	5 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3615
End Cap, Non-Handed	1 in	6 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3611
End Cap, Non-Handed	1 3/8 in	8 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3618
End Cap, Right Hand	3/4 in	4 in	Ivory, Tan, Champagne, Eggshell, Silver Gray, Teal, Linen White, Windsor Blue	H3609

4PA43

4PA44

1XLY5

STANLEY

Template Mortise-Mount Hinges

Steel hinges have standard preplated countersunk holes arranged in a half-moon shape. Square hinges mount into recessed cutouts, attaching doors to frames. Use ball-bearing hinges with door closers to reduce friction in high-traffic areas. Removable pins make frequent door removal easier, while nonremovable pins provide increased security. Safety hinges have concealed bearings to prevent tampering and tapered tips. All hinges are mounted with #12 screws except for 3" hinges, which use #9 screws. Hardware included.

Note: Additional sizes and finishes available. Call 1-800-GRAINGER (472-4643) or search for "hinges" on Grainger.com.

Finish	H	W	Leaf Thickness	Pin Dia.	Brand	Item No.
Heavyweight Hinges with Bearings, Nonremovable Pin						
Prime Coat	4½"	4½"	0.180 in	21/64 in	STANLEY	**5GJP4**
Prime Coat	5"	5"	0.190 in	21/64 in	STANLEY	**5GJP7**
Satin Chrome	4½"	4"	0.180 in	21/64 in	STANLEY	**5GJP3**
Satin Chrome	4½"	4½"	0.180 in	21/64 in	STANLEY	**5GJP5**
Satin Chrome	5"	4½"	0.190 in	21/64 in	STANLEY	**5GJP6**
Satin Chrome	5"	5"	0.190 in	21/64 in	STANLEY	**5GJP8**
Heavyweight Hinges with Bearings, Removable Pin						
Beige Enamel	4½"	4½"	0.180 in	21/64 in	—	**4PA43**
Beige Enamel	5"	4½"	0.190 in	21/64 in	—	**4PA47**
Bright Brass	4½"	4½"	0.180 in	21/64 in	STANLEY	**5GJG8**
Bright Brass	5"	4½"	0.190 in	21/64 in	STANLEY	**5GJH6**
Bright Brass	5"	5"	0.190 in	21/64 in	STANLEY	**5GJG9**
Dull Chrome	4½"	4½"	0.180 in	21/64 in	—	**4PA44**
Dull Chrome	5"	4½"	0.190 in	21/64 in	—	**4PA48**
Gray Enamel	4½"	4"	0.180 in	21/64 in	—	**3HUA3**
Gray Enamel	5"	4"	0.190 in	21/64 in	—	**3HUA5**
Satin Chrome	4½"	4"	0.180 in	21/64 in	STANLEY	**5GJH3**
Satin Chrome	5"	4"	0.190 in	21/64 in	STANLEY	**5GJH4**
Satin Chrome	5"	5"	0.190 in	21/64 in	STANLEY	**5GJH5**
Satin Stainless Steel	4½"	4"	0.180 in	21/64 in	STANLEY	**5GJH0**
Satin Stainless Steel	4½"	4½"	0.180 in	21/64 in	STANLEY	**5GJH1**
Satin Stainless Steel	5"	4½"	0.190 in	21/64 in	STANLEY	**5GJH2**
Hinges with Bearings, Nonremovable Pin						
Prime Coat	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJK8**
Prime Coat	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJK9**
Prime Coat	5"	5"	0.145 in	5/16 in	STANLEY	**5GJL1**
Satin Chrome	4"	3½"	0.130 in	17/64 in	STANLEY	**5GJK7**
Satin Chrome	4"	4"	0.130 in	17/64 in	STANLEY	**5GJK4**
Satin Chrome	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJK5**
Satin Chrome	5"	4½"	0.145 in	5/16 in	STANLEY	**5GJK6**
Satin Stainless Steel	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJK1**
Satin Stainless Steel	5"	4½"	0.145 in	5/16 in	STANLEY	**5GJK2**
Hinges with Bearings, Removable Pin						
Beige Enamel	4"	4"	0.130 in	17/64 in	—	**4PA33**
Beige Enamel	4½"	4½"	0.134 in	5/16 in	—	**4PA37**
Dull Chrome	4"	4"	0.130 in	17/64 in	—	**4PA34**
Dull Chrome	4½"	4"	0.134 in	5/16 in	—	**4PA36**
Dull Chrome	4½"	4½"	0.134 in	5/16 in	—	**4PA39**
Dull Chrome	5"	4½"	0.145 in	21/64 in	—	**3HWA5**
Gray Enamel	5"	4½"	0.145 in	21/64 in	—	**3HTY8**
Satin Stainless Steel	3½"	3½"	0.123 in	17/64 in	STANLEY	**5GJL2**
Satin Stainless Steel	4"	4"	0.130 in	17/64 in	STANLEY	**5GJL3**
Satin Stainless Steel	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJL4**
Satin Stainless Steel	5"	5"	0.145 in	21/64 in	STANLEY	**5GJL5**
Stainless Steel	4½"	4½"	0.180 in	5/16 in	—	**4PA49**
Hinges with Concealed Bearings, Nonremovable Pin						
Bright Brass	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJR7**
Prime Coat	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJR3**
Prime Coat	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJR5**
Satin Chrome	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJR4**
Satin Chrome	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJR6**
Satin Stainless Steel	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJR9**
Satin Stainless Steel	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJT0**
Satin Stainless Steel	5"	4½"	0.145 in	5/16 in	STANLEY	**5GJT1**
Hinges with Concealed Bearings, Removable Pin						
Bright Brass	3½"	3½"	0.123 in	17/64 in	STANLEY	**5GJH7**
Bright Brass	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJH9**
Bright Brass	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJK0**
Bright Brass	4"	4"	0.130 in	17/64 in	STANLEY	**5GJH8**
Gray Enamel	4"	4"	0.130 in	17/64 in	—	**3HTZ2**
Gray Enamel	4½"	4"	0.134 in	5/16 in	—	**3HTZ3**
Gray Enamel	5"	4½"	0.145 in	5/16 in	—	**3HTZ8**
Gray Prime Coat	4½"	4½"	0.134 in	5/16 in	—	**3HTZ4**
Satin Chrome	4"	4"	0.130 in	17/64 in	STANLEY	**5GJJ9**
Satin Chrome	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJJ6**
Satin Chrome	5"	4½"	0.145 in	5/16 in	STANLEY	**5GJJ7**
Satin Stainless Steel	3½"	3½"	0.123 in	17/64 in	STANLEY	**5GJJ0**
Satin Stainless Steel	4"	4"	0.130 in	17/64 in	STANLEY	**5GJJ1**
Satin Stainless Steel	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJJ2**
Satin Stainless Steel	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJJ3**
Satin Stainless Steel	5"	4½"	0.145 in	5/16 in	STANLEY	**5GJJ4**
Hinges without Bearings, Nonremovable Pin						
Bright Brass	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJP1**
Prime Coat	4"	4"	0.130 in	17/64 in	STANLEY	**5GJN7**
Prime Coat	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJP0**
Prime Coat	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJP2**
Satin Chrome	4"	4"	0.130 in	17/64 in	STANLEY	**5GJN8**
Satin Chrome	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJN9**
Satin Stainless Steel	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJN6**
Hinges without Bearings, Removable Pin						
Beige Enamel	3½"	3½"	0.123 in	17/64 in	—	**4PA28**
Beige Enamel	4"	4"	0.130 in	17/64 in	—	**4PA29**
Bright Brass	3"	3"	0.092 in	15/64 in	STANLEY	**5GJN3**
Bright Brass	3½"	3½"	0.123 in	17/64 in	STANLEY	**5GJL9**
Bright Brass	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJN0**
Gray Enamel	4½"	4½"	0.134 in	5/16 in	—	**1WAJ2** *
Gray Enamel	5"	5"	0.145 in	21/64 in	—	**3HTY6**
Prime Coat	4½"	4"	0.134 in	5/16 in	STANLEY	**5GJN5**
Satin Chrome	3"	3"	0.092 in	15/64 in	STANLEY	**5GJN1**
Satin Chrome	4"	4"	0.130 in	17/64 in	STANLEY	**5GJN4**
Satin Chrome	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJN2**
Satin Stainless Steel	3½"	3½"	0.123 in	17/64 in	STANLEY	**5GJL6**
Satin Stainless Steel	4"	4"	0.130 in	17/64 in	STANLEY	**5GJL7**
Satin Stainless Steel	4½"	4½"	0.134 in	5/16 in	STANLEY	**5GJL8**
Safety Hinges with Bearings, Nonremovable Pin						
Dull Chrome	4½"	4½"	0.134 in	5/16 in	—	**1XLY8**
Gray Enamel	4½"	4½"	0.134 in	5/16 in	—	**1XLY5**

** Pkg. of 3.*

4PA25

5GJG7

STANLEY

High-Security Template Hinges

- 180° range of motion
- Hardware included

Feature a stud built into 1 leaf that fits into corresponding hole of the matching leaf; door cannot be removed even if pin is removed from hinge. 304 stainless steel, mortise-mount hinges are designed for use in detention facilities. Capable of withstanding 200 repetitive blows with 200 ft.-lb. of force. Stainless steel pin has shear-resistant stud.

Finish	H	W	Leaf Thickness	Holes per Leaf	Brand	Item No.
Satin Stainless Steel	4½"	4½"	0.196 in	4	—	**4PA25**
Prime Coat	4½"	4½"	0.187 in	4	STANLEY	**5GJG7**

STANLEY

High-Security Weld-On Hinge without Holes

- 180° range of motion

Made of triple weight steel, with welded and machined rolled knuckles, this concealed bearing prison hinge is capable of carrying doors weighing up to 2000 lb. Use it in high-security applications, such as cell-front doors, and grated steel doors to reformatories, as well as with other extremely heavy doors, such as lead-lined x-ray room doors. The solid, one-piece steel pin is welded at both ends, making removal impossible, and the 2 concealed bearing assemblies have hardened raceways and ground balls.

Finish	H	W	Leaf Thickness	Holes per Leaf	Item No.
Prime Coat	5"	6"	¾ in	0	**38NC91**

3HTE3

3HTH3

3HTP1

3HTN1

3HTP7

3AGC3

Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Item No.
Unfinished Steel, Non-Removable Pin				
1 in	31/32 in	0.047 in	7/64 in	**3HTE3**
2 in	1 ½ in	0.06 in	1/8 in	**3HTE6**
2 in	2 in	0.099 in	—	**4PA65**
2 ½ in	2 ½ in	0.11 in	9/16 in	**4PA66**
3 in	2 in	0.09 in	3/16 in	**3HTF1**
3 in	2 ½ in	0.12 in	¼ in	**3HTF2**
3 in	3 in	0.11 in	—	**4PA67**
3 ½ in	3 ½ in	0.12 in	—	**4PA68**
4 in	3 ½ in	0.165 in	5/16 in	**3HTF4**
4 in	4 in	0.139 in	—	**4PA69**
4 in	4 in	0.25 in	5/8 in	**3HTF6**
5 in	5 in	0.165 in	—	**4PA71**
6 in	5 in	0.18 in	3/8 in	**3HTG3**
6 in	6 in	0.165 in	3/8 in	**3HTG5**
6 in	6 in	0.187 in	—	**4PA72**
8 in	6 in	0.18 in	3/8 in	**3HTG7**
Unfinished Steel, Removable Pin				
2 ½ in	2 ½ in	0.089 in	7/32 in	**3HTH2**
2 ½ in	2 ½ in	0.12 in	¼ in	**3HTH3**
3 in	2 ½ in	0.12 in	¼ in	**3HTH5**
6 in	3 in	0.18 in	3/8 in	**3HTK1**
6 in	6 in	0.18 in	3/8 in	**3HTK3**

Surface-Mount Hinges without Holes

- Have at least 270° range of motion

Reversible hinges are mounted by welding or drilling holes for fasteners. Nonremovable pin provides increased security.

Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Item No.
Gray Enamel Steel, Non-Removable Brass Pin				
2 in	2 in	0.105 in	3/16 in	**3HTP1**
3 ½ in	3 ½ in	0.165 in	5/16 in	**3HTP4**
Zinc Steel, Non-Removable Brass Pin				
4 in	4 in	0.18 in	5/16 in	**3HTP7**
4 in	4 in	0.25 in	½ in	**3HTP8**
Stainless Steel, Nonremovable Pin				
1 ½ in	1 ½ in	0.05 in	1/8 in	**3HTK5**
2 in	1 ½ in	0.06 in	1/8 in	**3HTK6**
2 in	2 in	0.075 in	3/16 in	**3HTK8**
2 ½ in	2 ½ in	0.075 in	3/16 in	**3HTL1**
3 in	1 in	0.09 in	3/16 in	**3HTL2**
3 in	3 in	0.12 in	¼ in	**3HTL5**
3 ½ in	3 in	0.09 in	3/16 in	**3HTL6**
3 ½ in	3 ½ in	0.09 in	3/16 in	**3HTL7**
4 in	4 in	0.25 in	5/8 in	**3AGC3**
5 in	5 in	0.12 in	¼ in	**3AGC4**
5 in	5 in	0.18 in	3/8 in	**3AGC5**
Stainless Steel, Removable Pin				
2 in	2 in	0.06 in	1/8 in	**3HTN1**
2 ½ in	2 ½ in	0.075 in	3/16 in	**3HTN2**
3 in	2 in	0.12 in	¼ in	**3HTN3**
4 in	3 in	0.12 in	¼ in	**3HTN6**

3HTU4

3HTV1

3HTV7

3HTW7

3HTX9

Nontemplate Mortise-Mount Hinges

- 270° range of motion.

Reversible nontemplate hinges have nonstandard hole patterns, providing flexibility as older/stripped holes can be ignored when mounting new hinges. Hinges mount into recessed cutouts, attaching hollow metal or wood doors to frames. Holes are predrilled and countersunk for easy installation and better corrosion resistance.

						NONREMOVABLE PIN		REMOVABLE PIN	
Door Leaf Height	H	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Holes per Leaf	GRAY ENAMEL STEEL Item No.	ZINC-PLATED STEEL Item No.	GRAY ENAMEL STEEL Item No.	ZINC-PLATED STEEL Item No.
Square Corners, 3 Knuckle									
1 7/16 in	1 7/16"	3 ½ in	0.072 in	⅛ in	3	—	**3HTV8**	—	—
1 ½ in	1½"	1 ¼ in	0.045 in	⅛ in	2	—	**3HTV7**	—	—
1 ½ in	1½"	1 ⅜ in	0.05 in	⅛ in	2	**3HTU4**	—	—	—
Square Corners, 5 Knuckle									
2 in	2"	1 9/16 in	0.05 in	⅛ in	2	**3HTU6**	**3HTV9**	—	—
2 in	2"	2 in	0.08 in	3/16 in	2	**3HTU7**	—	—	—
2 ½ in	2½"	1 11/16 in	0.055 in	⅛ in	3	—	—	**3HTW6**	—
2 ½ in	2½"	2 ½ in	0.09 in	7/32 in	3	**3HTU9**	—	**3HTW7**	—
3 in	3"	2 in	0.062 in	5/32 in	3	**3HTV1**	**3HTW2**	**3HTW8**	—
3 in	3"	3 in	0.09 in	17/64 in	3	**3HTV2**	—	**3HTW9**	**3HTX9**
3 ½ in	3½"	3 ½ in	0.11 in	17/64 in	3	—	—	**3HTX1**	**3HTY1**
4 in	4"	4 in	0.11 in	17/64 in	4	**3HTV4**	—	—	—
6 in	6"	6 in	0.16 in	⅜ in	5	**3HTV5**	—	—	—

1CAC4

4PB50

4PA75

4PA74

4PA94

1RBV3

4PA86

38G643

TRUClose

Spring Hinges

- Hardware included

Ensure doors close automatically.

Door Leaf Height	Door Leaf Width	Finish	Door Leaf Thickness	Holes per Leaf	Brand	Item No.
Adjustable-Tension Heavy Wood Storm Door Spring Hinges, Steel, Plated Finish, Full Mortise						
4 ½ in	2 in	Gray Enamel	0.098 in	4	—	**1CAC4**
Adjustable Ball Bearings Double-Acting Floor Spring Hinge Set, Steel, Plated Finish						
1 in	9 13/16 in	Satin Bronze	0.099 in	4	—	**4PB50**
Adjustable-Tension Heavy Wood Storm Door Spring Hinges, Steel, Plated Finish, Full Mortise						
2 55/64 in	1 15/32 in	Bright Zinc	0.08 in	3	—	**4PA75**
Adjustable-Tension Wood Storm Door Spring Hinges, Steel, Plated Finish						
2 ¾ in	1 15/32 in	Black Enamel	0.045 in	3	—	**1RBU7** *
2 ¾ in	1 15/32 in	Steel	0.08 in	3	—	**1RBV1**
2 ¾ in	1 15/32 in	Bright Zinc	0.048 in	3	—	**4PA74**
Full Mortise Adjustable Spring Residential Hinges, ¼" Radius Corners						
3 ½ in	1 ¾ in	Satin Brass	0.099 in	3	—	**4PA90**
3 ½ in	1 ¾ in	Satin Chrome	0.099 in	3	—	**4PA91**
4 in	2 in	Satin Brass	0.099 in	4	—	**4PA92**
4 in	2 in	Satin Chrome	0.099 in	4	—	**4PA93**
Full Mortise Adjustable Spring Residential Hinges, ⅝" Radius Corners						
3 ½ in	1 ¾ in	Satin Brass	0.099 in	3	—	**4PA94**
4 in	2 in	Satin Brass	0.099 in	4	—	**4PA95**

** Pkg. of 2.*

Door Leaf Height	Door Leaf Width	Finish	Door Leaf Thickness	Holes per Leaf	Brand	Item No.
Full Mortise Adjustable Spring Residential Hinges, Square Corners						
3 ½ in	1 ¾ in	Satin Brass	0.099 in	3	—	**4PA76**
3 ½ in	1 ¾ in	Satin Chrome	0.099 in	3	—	**4PA77**
4 ½ in	2 in	Satin Brass	0.134 in	4	—	**1RBV3**
4 ½ in	2 in	White Enamel	0.134 in	4	—	**4PA81**
4 ½ in	1 in	Satin Chrome	0.134 in	4	—	**4PA82**
4 ½ in	2 ¼ in	Gray Enamel	0.134 in	4	—	**4PA83**
4 ½ in	2 ¼ in	Satin Brass	0.134 in	4	—	**4PA84**
4 ½ in	2 ¼ in	Bronze	0.134 in	4	—	**4PA85**
4 ½ in	2 ¼ in	Satin Chrome	0.134 in	4	—	**4PA86**
4 ½ in	2 ¼ in	Bright Brass	0.134 in	4	—	**4PA87**
4 ½ in	2 ¼ in	Satin Bronze	0.134 in	4	—	**4PA88**
4 in	2 in	Satin Brass	0.099 in	4	—	**4PA78**
4 in	2 in	Satin Chrome	0.099 in	4	—	**4PA79**
4 in	2 in	Stainless Steel	0.099 in	4	—	**4PA80**
TRU CLOSE® Heavy Duty Self-Closing Adjustable Spring Hinge						
4 ¾ in	1 ⅜ in	Black Matte	0.39 in	2	TruClose	**38G646**
TRU CLOSE® Self-Closing Adjustable Spring Hinge						
3 ¾ in	1 ⅛ in	Black Matte	0.35 in	2	TruClose	**38G643**

25HE14

25HE17

25HE10

25HE18

McKinney
ASSA ABLOY

Hospital Tip Hinges

- Hardware included
- Square corners

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where security requirements exist. Feature four holes per leaf.

H	W	Range of Motion	Ligature Resistant	Door Leaf Thickness	Bearing Type	Material	Finish	Item No.
Full Mortise								
4½"	4½"	180 °	No	0.19 in	Sleeve	Steel	Dull Chrome	**25HE14**
4½"	4½"	270 °	No	0.134 in	Sleeve	Steel	Dull Chrome	**25HE04**
4½"	4½"	270 °	No	0.18 in	Sleeve	304 Stainless Steel	Dull Stainless Steel	**25HE02**
4½"	4½"	270 °	Yes	0.18 in	Sleeve	304 Stainless Steel	Dull Stainless Steel	**25HE17**
5"	4½"	270 °	Yes	0.19 in	Ball	Steel	Dull Chrome	**25HE10**
5"	4½"	270 °	Yes	0.19 in	Ball	304 Stainless Steel	Dull Stainless Steel	**25HE11**
5"	4½"	270 °	Yes	0.19 in	Ball	Steel	Dull Chrome	**25HE12**
8"	6"	270 °	Yes	0.19 in	Ball	Steel	Dull Chrome	**25HE13**
Swing Clear								
4½"	—	180 °	Yes	0.19 in	Sleeve	Steel	Dull Chrome	**25HE18**
4½"	—	180 °	Yes	0.19 in	Sleeve	Stainless Steel	Dull Stainless Steel	**25HE20**
5"	—	180 °	Yes	0.19 in	Sleeve	Steel	Dull Chrome	**25HE19**

4PA53

4PA20

4PA22

4PA23

High-Traffic Hinges

- Nonremovable pins
- Hardware included
- Square corners

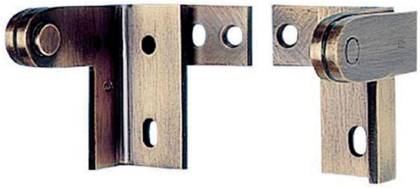
FULL-SURFACE MOUNTING
Hinges have antifriction ball bearings for high-traffic doors and openings. Thicker leaves provide greater support for heavier doors. For use when traditional mortise-mount hinges are impractical.

HALF-SURFACE AND HALF-MORTISE MOUNTING
For use when door or frame damage makes a full-mortise hinge impractical. Nonhanded hinges have 180° range of motion and antifriction ball bearings for high-traffic doors and openings. Mount nonmortise leaf to frame. Thicker leaves support greater weight.

H	W	Leaf Thickness	Holes per Leaf	Finish	Item No.
Full-Surface Mounting					
4½"	4½"	0.134 in	3	Gray Prime Coat	**4PA53**
Half-Surface Mounting					
4½"	4½"	0.134 in	3 and 4	Gray Prime Coat	**4PA20**
4½"	4½"	0.134 in	3 and 4	Satin Chrome	**4PA21**
4½"	4½"	0.180 in	3 and 4	Satin Chrome	**4PA22**
Half-Mortise Mounting					
4½"	3½"	0.140 in	3 and 4	Gray Prime Coat	**4PA23**

1VZU7

1VZU5



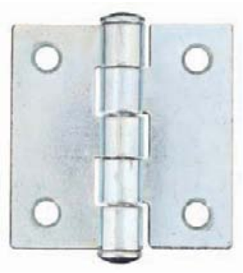
5MRE6

RIXSON ASSA ABLOY   STANLEY

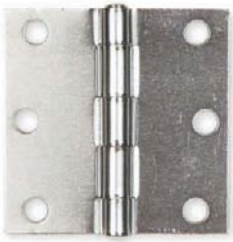
Pivot Sets and Pivot Hinges

Create less stress on the frame assembly, prevent door sagging, and allow the door to swing with less resistance. Fasteners on the door and frame are in shear rather than tension, and are less likely to pull out over time. Hardware included.

Range of Motion	Mounting	Door Thickness	Load Cap.	Holes per Leaf	Pkg. Qty.	LEFT-HANDED Item No.	RIGHT-HANDED Item No.	CENTER HUNG Item No.
Rixson Pivot Sets								
180 °	Full Mortise	1¾"	250 lb	4	1	**4AZT5**	—	—
180 °	Full Mortise	1¾"	300 lb	4	1	**4AZT7**	**4AZT6**	—
180 °	Full Mortise	1¾"	450 lb	4	1	**4AZT9**	**4AZT8**	—
180 °	Full Mortise	1¾"	600 lb	4	1	**4AZU2**	**4AZU1**	—
180 °	Full Mortise	1¾"	800 lb	8	1	—	**4AZU3**	—
180 °	Full Mortise	1¾"	200 lb	3	1	—	—	**4AZV4**
180 °	Full Mortise	1¾"	250 lb	3	1	—	—	**4AZV5**
180 °	Full Mortise	1¾"	500 lb	3	1	—	—	**4AZV6**
Approved Vendor Reinforcing Pivot Hinges								
180 °	Full Surface	1⅜"	—	4	1	**1VZU7**	**1VZU5**	—
Rixson Electric Pivot Hinges								
180 °	Full Mortise	1¾"	250 lb	5	1	**4AZV1**	**4AZU9**	—
Rixson Intermediate Pivot Hinges								
180 °	Full Mortise	1¾"	250 lb	5	1	**4AZU8**	—	—
180 °	Full Mortise	1¾"	250 lb	4	1	—	—	**4AZV3**
Stanley Wardrobe Pivot Hinges								
180 °	Full Surface	1⅛" to 1⅜"	75 lb	2	2	**5MRE8**	**5MRE9**	—
180 °	Full Surface	1⅛" to 1⅜"	75 lb	2 and 3	2	—	—	**5MRE7**
180 °	Full Surface	1⅜" to 1¾"	150 lb	2 and 3	2	—	—	**5MRE6**



4PA62



4PA63

4PA58

3HTR5

Light-Duty Mortise-Mount and Surface-Mount Hinges

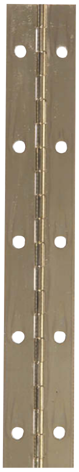
- Hardware included

For hollow-core and lightweight wooden doors. Nonremovable pins and inaccessible set screw provide increased security, while removable pins make frequent door removal less time consuming.

Note: Additional sizes and finishes available. Call 1-800-GRAINGER (472-4643) or search for "hinges" on Grainger.com.

Door Leaf Height	Door Leaf Width	Door Leaf Thickness	Pin Dia.	Holes per Leaf	Corners	Material	Finish	Item No.	Pkg. Qty.
Mortise-Mount, Nonremovable Pin									
2 in	2 in	0.077 in	—	2	Square	Steel	Zinc	**4PA62**	1
3 in	3 in	0.08 in	—	3	Square	Steel	Zinc	**4PA63**	1
4 in	4 in	0.088 in	—	4	Square	Steel	Zinc	**4PA64**	1
Mortise-Mount, Removable Pin									
2 in	2 in	0.077 in	13/64 in	2	Square	Steel	Zinc	**4PA58**	1
3 in	3 in	0.078 in	—	3	Square	Steel	Zinc	**4PA59**	1
3 ½ in	3 ½ in	0.088 in	—	3	Square	Steel	Zinc	**4PA60**	1
4 in	4 in	0.088 in	—	4	Square	Steel	Zinc	**4PA61**	1
2 in	2 in	0.077 in	3/16 in	2	Square	Stainless Steel	Stainless Steel	**1RBY2**	2
2 ½ in	2 ½ in	0.077 in	3/16 in	2	Square	Stainless Steel	Stainless Steel	**1RBY5**	2
3 ½ in	3 ½ in	0.078 in	¼ in	3	Rounded	Steel	Antique Bronze	**1XMB9**	2
3 ½ in	3 ½ in	0.087 in	¼ in	3	Rounded	Steel	Satin Nickel	**1WAN2**	2
Surface-Mount, Nonremovable Pin									
1 ½ in	1 ⅜ in	0.045 in	3/16 in	2	Square	Steel	Zinc	**1RBT5**	1
2 ½ in	1 11/16 in	0.056 in	3/16 in	3	Square	Steel	Zinc	**1RBT7**	1
3 in	2 in	0.065 in	3/16 in	3	Square	Steel	Brass	**1RBU5**	2
2 ½ in	1 11/16 in	0.056 in	3/16 in	3	Square	Steel	Brass	**1RBU3**	2
1 ½ in	⅞ in	0.04 in	1/16 in	2	Square	Brass	Bright Brass	**1XMC4**	2
3 in	2 in	0.082 in	⅛ in	3	Square	Brass	Bright Brass	**3HTR5**	1

4PB17



Continuous Steel Piano Hinges with Holes

- 1/2" knuckle height

Steel hinges have countersunk mounting holes to aid surface-mounting hinges to door or frame. Pins and hinges are made of the same material. Additional sizes and finishes available on Grainger.com.

L	Pin Dia.	0.040 in Overall Width	Item No.	Pin Dia.	0.060 in Overall Width	Item No.
Aluminum						
6 ft	3/32 in	1 1/16 in	**4PB22**	1/8 in	2 in	**4PB38**
6 ft	3/32 in	1 1/2 in	**4PB23**	—	—	—
Antique Bronze						
4 ft	3/32 in	1 1/2 in	**1CBC6**	—	—	—
4 ft	3/32 in	2 in	**1CBF6**	—	—	—
6 ft	3/32 in	1 1/2 in	**1CBD9**	1/8 in	2 in	**1CCJ6**
6 ft	—	—	—	1/8 in	3 in	**1CCN3**
Bright Brass						
4 ft	3/32 in	1 1/2 in	**4PB17**	1/8 in	1 1/2 in	**1CCD7**
4 ft	—	—	—	1/8 in	2 in	**1CCG8**
4 ft	—	—	—	1/8 in	3 in	**1CCK6**
6 ft	3/32 in	1 1/2 in	**4PA99**	1/8 in	1 1/2 in	**1CCF1**
6 ft	3/32 in	1 1/2 in	**4PB18**	1/8 in	3 in	**1CCL9**
Bright Nickel						
4 ft	3/32 in	2 in	**1CBJ7**	—	—	—
4 ft	3/32 in	1 1/2 in	**4PB20**	1/8 in	3 in	**1CCL3**
4 ft	3/32 in	2 in	**4PB11**	—	—	—
4 ft	3/32 in	1 1/4 in	**1CBA1**	—	—	—
4 ft	3/32 in	1 1/16 in	**1CAW6**	1/8 in	1 1/2 in	**1CCE4**
4 ft	3/32 in	1 1/16 in	**4PB19**	1/8 in	2 in	**1CCH5**
6 ft	3/32 in	1 1/4 in	**1CBB4**	1/8 in	2 in	**4PB29**
6 ft	3/32 in	1 1/2 in	**4PB10**	1/8 in	2 1/2 in	**4PB31**
6 ft	3/32 in	2 in	**4PB13**	—	—	—
6 ft	3/32 in	1 1/2 in	**4PB21**	1/8 in	3 in	**4PB33**
6 ft	3/32 in	1 1/16 in	**4PA97**	1/8 in	1 1/2 in	**1CCF7**
Stainless Steel						
3 ft	3/32 in	1 1/4 in	**1CAK5**	—	—	—
3 ft	3/32 in	1 1/2 in	**1CAL2**	—	—	—
4 ft	3/32 in	1 1/4 in	**1CAK7**	1/8 in	1 1/2 in	**1JEJ6**
4 ft	3/32 in	1 1/2 in	**1CAL4**	1/8 in	3 in	**1JEJ8**
4 ft	3/32 in	2 in	**1CAL7**	—	—	—
6 ft	3/32 in	1 1/16 in	**4PB24**	1/8 in	1 1/2 in	**1JEJ7**
6 ft	3/32 in	1 1/4 in	**1CAK9**	1/8 in	2 in	**4PB39**
6 ft	3/32 in	1 1/2 in	**4PB25**	1/8 in	3 in	**1JEJ9**
6 ft	3/32 in	2 in	**1CAL9**	—	—	—
Steel						
6 ft	3/32 in	2 in	**4PB12**	1/8 in	3 in	**4PB32**
6 ft	3/32 in	1 1/16 in	**4PA96**	1/8 in	1 1/2 in	**4PB27**
6 ft	3/32 in	1 1/4 in	**1CBC4**	1/8 in	2 in	**4PB28**
6 ft	3/32 in	1 1/2 in	**4PA98**	1/8 in	2 1/2 in	**4PB30**

MONROE

Continuous Steel Piano Hinges without Holes

- Nonremovable Pin Type

More corrosion resistant than brass hinges. Can be surface mounted by drilling holes and using fasteners, or spot welded. Hinges can be cut with a hacksaw. Additional sizes available on Grainger.com.

Overall Width	Pin Dia.	Overall Knuckle Height	3 FT Item No.	4 FT Item No.	6 FT Item No.	8 FT Item No.
0.025 in Leaf Thickness						
180 ° Range of Motion						
3/4 in	1/16 in	1/4 in	—	—	**1CAE5**	—
0.03 in Leaf Thickness						
1 in	1/16 in	1/4 in	—	—	**1CAE7**	—
0.035 in Leaf Thickness						
270 ° Range of Motion						
1 1/2 in	3/32 in	1/4 in	—	**2ZFF5**	**2ZFF6**	—
0.040 in Leaf Thickness						
180 ° Range of Motion						
1 1/16 in	3/32 in	1/2 in	—	—	**1CAN5**	—
2 in	3/32 in	1/2 in	—	**1CAP6**	**1CAP8**	—
1 1/2 in	3/32 in	1/2 in	—	—	**4PB26**	—
0.050 in Leaf Thickness						
1 1/2 in	1/8 in	1/2 in	—	**1CCA1**	—	—
2 in	1/8 in	1/2 in	—	—	**1CCB2**	—
270 ° Range of Motion						
1 1/4 in	1/8 in	1/2 in	—	—	—	**2ZFG7**
0.060 in Leaf Thickness						
180 ° Range of Motion						
2 in	1/8 in	1/2 in	—	—	**4PB40**	**1JEK7**
3 in	1/8 in	1/2 in	—	**1JEN1**	**1JEN2**	—
1 1/2 in	1/8 in	1/2 in	—	**1JEK3**	**1JEK4**	—
270 ° Range of Motion						
1 1/16 in	1/8 in	1/2 in	—	—	**2ZFH8**	—
2 in	3/16 in	1 in	—	—	**1JEN9**	—
2 in	3/16 in	1/2 in	**2ZFK4**	—	—	—
3 in	3/16 in	1/2 in	—	—	—	**2ZFN3**
1 1/2 in	3/16 in	1/2 in	**2ZFJ6**	—	**2ZFJ9**	**2ZFK1**
0.075 in Leaf Thickness						
180 ° Range of Motion						
3 in	1/4 in	1 in	—	**1JEX4**	**1JEX5**	**1JEX6**
2 1/2 in	1/4 in	1 in	—	—	**1JEX3**	—
2 in	1/4 in	1 in	—	**1JEV9**	**1JEX1**	—
270 ° Range of Motion						
2 in	3/16 in	1 in	**2ZFN7**	**2ZFN9**	**2ZFP3**	—
2 1/2 in	1/4 in	1 in	**2ZFP6**	—	—	**2ZFP8**
3 in	1/4 in	1 in	**2ZFP9**	—	—	—
2 in	1/4 in	1 in	**2ZFN8**	—	—	**2ZFP5**

W	Pin Dia.	Knuckles	1 FT Item No.	2 FT Item No.	4 FT Item No.	6 FT Item No.
0.090 in Leaf Thickness						
2"	1/4 in	1"	—	**2ZFT4**	**2ZFT5**	**2ZFT6**
0.120 in Leaf Thickness						
2"	1/4 in	2"	**2ZFU9**	**2ZFV2**	**2ZFV4**	—
3"	3/8 in	2"	**2ZFW2**	—	—	**2ZFW7**

Overall Width	Pin Dia.	Overall Knuckle Height	Brand	Door Leaf Height 72 in Item No.
270 ° Range of Motion				
1 1/16 in	59/64 in	1/2 in	Monroe PMP	**54HT91**
1 1/4 in	59/64 in	1/2 in	Monroe PMP	**54HT92**
1 1/2 in	59/64 in	1/2 in	Monroe PMP	**54HT94**
2 in	29/32 in	1/2 in	Monroe PMP	**54HT95**

33RZ57

33RZ49

33RZ48

PEMKO
ASSA ABLOY

Hospital Tip Geared Continuous Hinges

- 83" L
- 0.125" leaf thickness

Right hand hinges are geared and feature anodized aluminum construction.

Overall Width	Overall Knuckle Height	Holes per Leaf	Right Hand Color	Right Hand Item No.	Left Hand Color	Left Hand Item No.
Half Surface						
4 1/2 in	2 in	10	Silver	**33RZ57**	Natural	**40CE87**
4 1/2 in	2 in	12	Silver	**33RZ58**	Natural	**40CE88**
Full Surface Center Pivot						
3 7/32 in	2 in	10	Silver	**33RZ49**	—	—
3 7/32 in	2 in	12	Silver	**33RZ50**	—	—
Full Surface						
2 7/8 in	2 in	10	Silver	**33RZ48**	Natural	**40CE78**
2 7/8 in	2 in	12	Silver	**33RZ51**	Natural	**40CE81**
3 7/32 in	2 in	10	—	—	Natural	**40CE79**
3 7/32 in	2 in	12	—	—	Natural	**40CE80**

2EUN6

2EUP1

PEMKO
ASSA ABLOY

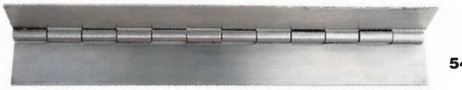
Standard Geared Continuous Hinges

- 83" L
- 0.187" leaf thickness

Door Leaf Height	Door Leaf Width	Includes	Color	Overall Width	Holes per Leaf	Item No.
Full Surface						
15/16 in	1 3/8 in	14 Bearings	Natural	2 7/8 in	10	**2EUN6**
		27 Bearings				**2EUN9**
Center Pivot						
3/4 in	2 in	14 Bearings	Natural	3 7/32 in	10	**2EUP1**
			Dark Bronze			**2EUP3**
		27 Bearings	Natural			**2EUP4**

Continuous Hinges

MONROE



54HT35

Holes	Pin Dia.	Door Leaf Width	Overall Knuckle Height	Finish	Material	48 in Item No.	72 in Item No.	96 in Item No.
0.035 in Frame Leaf Thickness								
Without	55/64 in	¾ in	¼ in	SS	SS	—	54HU13	—
Without	⅞ in	⅜ in	¼ in	Mill Aluminum	Aluminum	—	54HT49	—
Without	⅞ in	¾ in	¼ in	Mill Steel	Steel	—	54HT73	—
Without	⅞ in	1 ½ in	¼ in	Mill Steel	Steel	—	54HT74	—
0.04 in Frame Leaf Thickness								
With	3/32 in	1 1/16 in	½ in	Bright Nickel	Steel	54PC99	54PC94	—
With	3/32 in	1 ½ in	½ in	Mill	Aluminum	—	54PC63	—
With	3/32 in	1 1/16 in	½ in	Mill	Aluminum	—	54PC64	—
With	3/32 in	1 ½ in	½ in	Mill	SS	54PC68	54PC67	—
With	3/32 in	1 ¼ in	½ in	Mill	SS	54PC71	54PC72	—
With	3/32 in	1 1/16 in	½ in	Mill	SS	—	54PC73	—
With	3/32 in	1 1/16 in	½ in	Mill	Steel	—	54PC85	—
With	3/32 in	1 ½ in	½ in	Mill	Steel	—	54PC86	—
With	3/32 in	1 ¼ in	½ in	Mill	Steel	—	54PC87	—
With	3/32 in	1 ½ in	½ in	Bright Nickel	Steel	54PC95	54PC93	—
With	3/32 in	1 ¼ in	½ in	Bright Nickel	Steel	54PD01	54PC97	—
With	3/32 in	1 ½ in	½ in	Bright Brass	Steel	54PD11	54PD13	—
With	3/32 in	1 ¼ in	½ in	Bright Brass	Steel	54PD16	54PD12	—
With	3/32 in	2 in	½ in	Mill	SS	—	54PC66	—
With	3/32 in	2 in	½ in	Mill	Steel	—	54PC88	—
With	3/32 in	2 in	½ in	Bright Nickel	Steel	54PC96	54PC98	—
With	3/32 in	2 in	½ in	Bright Brass	Steel	54PD17	—	—
Without	3/32 in	1 1/16 in	½ in	Mill Aluminum	Aluminum	—	54HT37	—
Without	3/32 in	1 ¼ in	½ in	Mill Aluminum	Aluminum	—	54HT38	—
Without	3/32 in	1 ½ in	½ in	Steel	Steel	—	54PC80	—
Without	3/32 in	2 in	½ in	Mill Steel	Steel	—	54HT61	—
Without	3/32 in	2 in	½ in	Steel	Steel	—	54PC83	—
Without	29/32 in	1 in	½ in	SS	SS	—	54HT95	—
Without	59/64 in	1 ½ in	½ in	SS	SS	—	54HT94	—
Without	59/64 in	1 1/16 in	½ in	SS	SS	—	54HT91	—
Without	59/64 in	1 ¼ in	½ in	SS	SS	—	54HT92	54HT93
Without	59/64 in	1 ½ in	½ in	Mill Aluminum	Aluminum	—	54HT39	54HT40
Without	59/64 in	1 1/16 in	½ in	Mill Steel	Steel	—	54HT58	—
Without	59/64 in	1 ¼ in	½ in	Mill Steel	Steel	—	54HT59	—
Without	59/64 in	1 ½ in	½ in	Mill Steel	Steel	—	54HT60	—
Without	59/64 in	2 in	½ in	Mill Aluminum	Aluminum	—	54HT41	—
0.05 in Frame Leaf Thickness								
Without	⅛ in	1 ½ in	½ in	Mill Steel	Steel	—	54HT62	—
Without	⅛ in	1 ½ in	½ in	SS	SS	—	54HT96	—
Without	⅛ in	1 ½ in	½ in	Mill Aluminum	Aluminum	—	54HT42	—
Without	⅛ in	2 in	½ in	Mill Steel	Steel	—	54HT63	—
Without	⅛ in	2 in	½ in	SS	SS	—	54HT97	—
Without	⅛ in	2 in	½ in	Mill Aluminum	Aluminum	—	54HT43	—
0.06 in Frame Leaf Thickness								
With	3/32 in	2 in	½ in	Bright Brass	Steel	—	54PD15	—
With	⅛ in	¾ in	½ in	Bright Nickel	Steel	—	54PD03	—
With	⅛ in	1 ½ in	½ in	Mill	SS	54PC78	54PC75	—
With	⅛ in	1 ½ in	½ in	Mill	Steel	—	54PC89	—
With	⅛ in	1 ½ in	½ in	Bright Nickel	Steel	54PD06	—	—
With	⅛ in	1 ¼ in	½ in	Bright Nickel	Steel	54PD10	54PD09	—
With	⅛ in	1 ½ in	½ in	Bright Brass	Steel	54PD20	54PD14	—
With	⅛ in	2 in	½ in	Mill	Aluminum	—	54PC65	—
With	⅛ in	2 in	½ in	Mill	SS	54PC79	54PC74	—
With	⅛ in	2 in	½ in	Mill	Steel	—	54PC90	—
With	⅛ in	2 ½ in	½ in	Mill	Steel	—	54PC91	—
With	⅛ in	2 in	½ in	Bright Nickel	Steel	54PD07	54PD02	—
With	⅛ in	2 ½ in	½ in	Bright Nickel	Steel	—	54PD08	—
With	⅛ in	2 in	½ in	Bright Brass	Steel	54PD21	54PD18	—
With	⅛ in	3 in	½ in	Mill	SS	54PC77	54PC76	—
With	⅛ in	3 in	½ in	Mill	Steel	—	54PC92	—
With	⅛ in	3 in	½ in	Bright Nickel	Steel	54PD05	54PD04	—

Holes	Pin Dia.	Door Leaf Width	Overall Knuckle Height	Finish	Material	48 in Item No.	72 in Item No.	96 in Item No.
With	⅛ in	3 in	½ in	Bright Brass	Steel	54PD22	54PD19	—
Without	⅛ in	½ in	½ in	SS	SS	—	—	54HT99
Without	⅛ in	1 ½ in	½ in	Mill Steel	Steel	—	54HT65	—
Without	⅛ in	1 ¼ in	½ in	Mill Steel	Steel	—	54HT64	—
Without	⅛ in	1 ½ in	½ in	Mill Aluminum	Aluminum	—	54HT44	—
Without	⅛ in	1 ¼ in	½ in	SS	SS	—	54HT98	—
Without	⅛ in	1 ½ in	½ in	Steel	Steel	—	54PC81	—
Without	⅛ in	1 ½ in	½ in	SS	SS	—	54HU01	54HU02
Without	⅛ in	2 in	½ in	SS	SS	—	54HU03	54HU04
Without	⅛ in	2 ½ in	½ in	Mill Aluminum	Aluminum	—	54HT46	—
Without	⅛ in	2 in	½ in	Mill Steel	Steel	—	54HT66	54HT67
Without	⅛ in	2 ½ in	½ in	SS	SS	—	54HU05	—
Without	⅛ in	2 in	½ in	Steel	Steel	—	54PC82	—
Without	⅛ in	2 ½ in	½ in	Mill Steel	Steel	—	54HT68	—
Without	⅛ in	2 in	½ in	Mill Aluminum	Aluminum	—	54HT45	—
Without	⅛ in	2 in	½ in	SS	SS	—	54HU07	—
Without	⅛ in	3 in	½ in	SS	SS	—	54HU06	—
Without	⅛ in	3 in	½ in	Steel	Steel	—	54PC84	—
Without	⅛ in	3 in	½ in	Mill Aluminum	Aluminum	—	54HT47	—
Without	⅛ in	4 in	½ in	Mill Aluminum	Aluminum	—	54HT48	—
Without	3/16 in	1 ½ in	½ in	SS	SS	—	54HU08	—
Without	3/16 in	2 in	½ in	Mill Steel	Steel	—	54HT71	—
Without	3/16 in	2 in	½ in	SS	SS	—	54HU09	54HU10
Without	3/16 in	2 ½ in	½ in	SS	SS	—	54HU11	—
Without	3/16 in	3 in	½ in	Mill Steel	Steel	—	54HT72	—
Without	3/16 in	3 in	½ in	SS	SS	—	54HU12	—
0.074 in Frame Leaf Thickness								
Without	3/16 in	2 in	1 in	Mill Steel	Steel	—	54HT80	—
Without	3/16 in	2 ½ in	1 in	Mill Steel	Steel	—	54HT81	—
Without	3/16 in	2 in	1 in	SS	SS	—	54HU18	—
Without	3/16 in	3 in	1 in	Mill Steel	Steel	—	54HT82	—
Without	¼ in	1 ½ in	1 in	Mill Steel	Steel	—	54HT79	—
Without	¼ in	1 ½ in	1 in	Mill Aluminum	Aluminum	—	54HT52	—
Without	¼ in	2 in	1 in	Mill Steel	Steel	—	54HT75	—
Without	¼ in	2 ½ in	1 in	Mill Steel	Steel	—	54HT76	—
Without	¼ in	2 in	1 in	SS	SS	—	54HU14	—
Without	¼ in	2 ½ in	1 in	Mill Aluminum	Aluminum	—	54HT51	—
Without	¼ in	2 in	1 in	Mill Aluminum	Aluminum	—	54HT50	—
Without	¼ in	2 ½ in	1 in	SS	SS	—	54HU15	—
Without	¼ in	3 in	1 in	Mill Steel	Steel	—	54HT77	54HT85
Without	¼ in	3 in	1 in	SS	SS	—	54HU16	—
Without	¼ in	4 in	1 in	SS	SS	—	54HU17	—
Without	¼ in	4 in	1 in	Mill Steel	Steel	—	54HT78	—
0.09 in Frame Leaf Thickness								
Without	¼ in	2 in	1 in	Mill Steel	Steel	—	54HT83	—
Without	¼ in	2 in	1 in	SS	SS	—	54HU19	—
Without	¼ in	2 in	1 in	Mill Aluminum	Aluminum	—	54HT53	—
Without	¼ in	3 in	1 in	SS	SS	—	54HU20	—
Without	¼ in	3 in	1 in	Mill Steel	Steel	—	54HT84	—
Without	¼ in	4 in	1 in	SS	SS	—	54HU21	—
Without	¼ in	4 in	1 in	Mill Steel	Steel	—	54HT86	—
0.12 in Frame Leaf Thickness								
Without	⅜ in	2 in	2 in	Mill Steel	Steel	—	54HT54	—
Without	⅜ in	2 ½ in	2 in	Mill Steel	Steel	—	54HT55	—
Without	⅜ in	2 in	2 in	SS	SS	—	54HT87	54HT88
Without	⅜ in	3 in	2 in	Mill Steel	Steel	—	54HT56	—
Without	⅜ in	3 in	2 in	SS	SS	—	54HT89	—
Without	⅜ in	3 in	2 in	Mill Aluminum	Aluminum	—	54HT35	—
Without	⅜ in	4 in	2 in	Mill Aluminum	Aluminum	—	54HT36	—
Without	⅜ in	4 in	2 in	SS	SS	—	54HT90	—
Without	⅜ in	4 in	2 in	Mill Steel	Steel	—	54HT57	—

Unfinished Steel Hinges with Steel Pins, No Holes

Hinges can be surface mounted by drilling holes and using fasteners, or spot welded. Can be cut using a hacksaw. 270° range of motion. Additional sizes available on Grainger.com.

Overall Width	Pin Dia.	Overall Knuckle Height	6 FT Item No.	4 FT Item No.	8 FT Item No.	3 FT Item No.	5 FT Item No.
0.025 in Leaf Thickness							
1 in	1/16 in	¼ in	2ZDV5	—	—	—	—
0.040 in Leaf Thickness							
2 in	3/32 in	½ in	—	—	—	2ZDW5	—
0.050 in Leaf Thickness							
1 ½ in	⅛ in	½ in	1CBY4	—	—	—	—
1 ¼ in	⅛ in	½ in	2ZDW9	—	—	—	—
0.060 in Leaf Thickness							
1 ¼ in	⅛ in	½ in	1CCP6	—	—	—	—
1 ½ in	⅛ in	½ in	4PB34	—	—	—	—
1 1/16 in	⅛ in	½ in	—	—	—	4PPF1	—
1 ½ in	3/16 in	½ in	2ZDZ6	—	—	—	—
2 in	⅛ in	½ in	4PB35	1CDG2	1CDG5	—	—
2 ½ in	⅛ in	½ in	4PB36	—	—	—	—
2 in	3/16 in	1 in	—	—	2ZEC6	—	—
3 in	⅛ in	½ in	4PB37	1JEG7	—	—	—
0.075 in Leaf Thickness							
1 ½ in	3/16 in	1 in	—	—	2ZEK9	—	—
2 in	¼ in	1 in	2ZEH1	—	2ZEH2	—	—
2 ½ in	¼ in	1 in	1JET3	—	—	—	—
2 in	¼ in	1 in	1JER9	—	1JET1	—	2ZEG9
3 in	3/16 in	1 in	—	—	1JET7	—	—
3 in	¼ in	1 in	—	2ZEH9	—	—	—
4 in	¼ in	1 in	2ZEK3	—	—	—	—
4 in	¼ in	1 in	1JEU3	1JEU2	—	—	—
0.090 in Leaf Thickness							
2 in	¼ in	1 in	2ZEP6	—	2ZEP7	—	—
3 in	¼ in	1 in	2ZER2	—	2ZER3	2ZEP8	2ZER1
4 in	¼ in	1 in	2ZER7	—	—	—	—

Overall Width	Pin Dia.	Overall Knuckle Height	1 FT Item No.	2 FT Item No.	4 FT Item No.	6 FT Item No.	8 FT Item No.
0.120 in Leaf Thickness							
2 in	¼ in	2 in	—	2ZET7	2ZET9	2ZEU2	2ZEU4
2 in	⅜ in	2 in	2ZET6	2ZET8	2ZEU1	2ZEU3	2ZEU5
2 ½ in	⅜ in	2 in	—	—	1JEY6	2ZEU8	—
3 in	¼ in	2 in	—	—	2ZEV5	2ZEV6	2ZEV8
3 in	⅜ in	2 in	2ZEV2	—	1JEY8	2ZEV7	2ZEV9
4 in	⅜ in	2 in	—	—	1JEZ1	2ZEW8	2ZEW9
0.180 in Leaf Thickness							
3 in	½ in	2 in	2ZEX5	2ZEX6	1JFL6	2ZEX7	1JFL7
4 in	½ in	2 in	2ZEX8	—	2ZEY1	2ZEY2	2ZEY3
0.250 in Leaf Thickness							
3 in	⅝ in	2 in	4PND3	—	—	—	—

33RT73

33RT80

33RT87

Markar
ASSA ABLOY

Hospital Tip Continuous Hinges

L	W	Leaf Thickness	Material	Holes per Leaf	Color	Item No.
Full Mortise Continuous Hinge						
84 in	2 1/4"	0.083 in	Carbon Steel	21	Gray	**33RT73**
84 in	2 1/16"	0.125 in	Aluminum	21	Aluminum	**33RT76**
84 in	2 1/16"	0.125 in	Aluminum	21	Dark Bronze	**33RT80**
96 in	2 1/4"	0.083 in	Carbon Steel	24	Gray	**33RT75**
96 in	2 1/4"	0.083 in	Stainless Steel	24	Satin	**33RT94**
96 in	2 1/16"	0.125 in	Aluminum	21	Aluminum	**33RT82**
96 in	2 1/16"	0.125 in	Aluminum	21	Dark Bronze	**33RT86**
Full Surface Continuous Hinge						
84 in	1 11/16"	0.083 in	Carbon Steel	24	Gray	**33RT78**
84 in	1 11/16"	0.083 in	Stainless Steel	21	Satin	**33RT87**
84 in	1 11/16"	0.075 in	Carbon Steel	24	Gray	**40CF04**
84 in	1 11/16"	0.075 in	Stainless Steel	21	Silver	**40CF06**
84 in	2 1/16"	0.125 in	Aluminum	21	Aluminum	**33RT77**
84 in	2 1/16"	0.125 in	Aluminum	21	Dark Bronze	**33RT92**
84 in	2 1/16"	0.125 in	Aluminum	21	Natural	**40CF01**
96 in	1 11/16"	0.083 in	Carbon Steel	24	Gray	**33RT84**
96 in	1 11/16"	0.075 in	Carbon Steel	24	Gray	**40CF05**

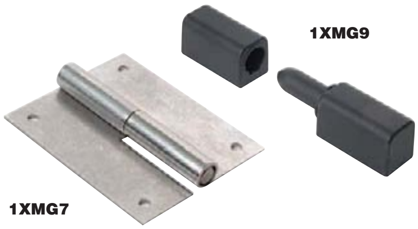
4PPP3

4PPU2

Narrow-Profile Weld-On Lift-Off Hinges

Suitable for tight spaces, and can be welded in place horizontally or vertically. Hinges can be mounted flush, offset, or straight. Pin is permanently attached to the frame leaf. Reversible for left- or right-handed applications.

H	W	Pin Dia.	Pin Material	Item No.
Stainless Steel				
2 1/3"	15/32"	1/4 in	Stainless Steel	**4PPR4**
2 3/4"	1/2"	1/4 in	Stainless Steel	**4PPR5**
3 5/32"	5/8"	5/16 in	Stainless Steel	**4PPR6**
3 15/16"	3/4"	3/8 in	Stainless Steel	**4PPR7**
5 1/3"	29/32"	1/2 in	Stainless Steel	**4PPR8**
5 29/32"	1"	1/2 in	Stainless Steel	**4PPR9**
Steel				
1 19/32"	3/8"	3/16 in	Steel	**4PPP3**
2 1/3"	15/32"	1/4 in	Steel	**4PPP4**
2 3/4"	1/2"	1/4 in	Steel	**4PPP5**
3 5/32"	5/8"	5/16 in	Steel	**4PPP6**
3 15/16"	3/4"	3/8 in	Steel	**4PPP7**
3 13/32"	5/8"	5/16 in	Brass with Grease Fitting	**4PPU2**
4 3/16"	3/4"	3/8 in	Brass with Grease Fitting	**4PPU3**
4 3/4"	3/4"	3/8 in	Steel	**4PPP8**
5"	3/4"	3/8 in	Brass with Grease Fitting	**4PPU4**
5 1/3"	29/32"	1/2 in	Steel	**4PPP9**
5 29/32"	1"	1/2 in	Steel	**4PPR1**
7 3/32"	1"	1/2 in	Steel	**4PPR2**
7 7/8"	1 1/8"	5/8 in	Steel	**4PPR3**
6 5/32"	1"	1/2 in	Brass with Grease Fitting	**4PPU5**
7 1/3"	1"	1/2 in	Brass with Grease Fitting	**4PPU6**
8 1/8"	1 1/8"	5/8 in	Brass with Grease Fitting	**4PPU7**
Aluminum				
2 1/3"	15/32"	1/4 in	Stainless Steel	**4PPT3**
2 3/4"	1/2"	1/4 in	Stainless Steel	**4PPT4**
3 5/32"	5/8"	5/16 in	Stainless Steel	**4PPT5**
3 15/16"	3/4"	3/8 in	Stainless Steel	**4PPT6**
5 29/32"	1"	1/2 in	Stainless Steel	**4PPT8**
7 7/8"	1 1/8"	5/8 in	Stainless Steel	**4PPU1**


1XMG9

1XMG7

Lift-Off Hinges

Surface-mount hinges allow quick door removal by lifting door from door-mounted hinge leaf. 304 stainless steel for use in corrosive environments. Black powder-coated. 300-lb. door capacity. 4 concealed mounting holes. Use #10 screws to mount; hardware not included.

				WITHOUT HOLES				WITH HOLES			
				RIGHT-HANDED		LEFT-HANDED		RIGHT-HANDED		LEFT-HANDED	
H	W	Pin Dia.	Range of Motion	Leaf Thickness	Item No.	Leaf Thickness	Item No.	Leaf Thickness	Item No.	Leaf Thickness	Item No.
Steel											
2"	1 11/16"	1/8 in	270 °	—	—	—	—	3/4 in	**3HUF1**	0.078 in	**3HUG5**
2"	2"	3/16 in	270 °	—	—	51/64 in	**3HWE7**	—	—	5/64 in	**3HUG6**
2 1/2"	2 1/2"	3/16 in	270 °	—	—	—	—	5/64 in	**3HUF4**	—	—
2 1/2"	2 1/2"	15/64 in	270 °	—	—	—	—	—	—	5/64 in	**3HUG8**
3"	3"	1/4 in	270 °	—	—	—	—	5/64 in	**3HUF5**	5/64 in	**3HUG9**
4"	3"	1/4 in	270 °	—	—	7/64 in	**3HWF2**	—	—	7/64 in	**3HUH1**
Stainless Steel											
2"	1 11/16"	3/16 in	270 °	5/64 in	**3HWD6**	51/64 in	**3HUE4**	—	—	51/64 in	**3HUH3**
2 1/2"	2"	1/4 in	180 °	—	—	—	—	1/2 in	**1XMG7**	—	—
2 1/2"	2 1/2"	3/16 in	270 °	—	—	—	—	—	—	3/4 in	**3HUH4**
3"	2"	3/16 in	270 °	—	—	—	—	5/64 in	**3HUG1**	5/64 in	**3HUH5**
3"	3"	1/4 in	270 °	5/64 in	**3HWE3**	5/64 in	**3HUE7**	—	—	—	—
4"	3"	1/4 in	270 °	—	—	—	—	—	—	7/64 in	**3HUH7**
4"	4"	1/4 in	270 °	—	—	—	—	7/64 in	**3HUG4**	—	—
Black Powder Coat Cast Zinc											
2 1/2"	11/16"	3/8 in	180 °	—	—	—	—	11/16 in	**1XMG9** *	—	—
2 1/2"	1 1/4"	3/8 in	180 °	—	—	—	—	11/16 in	**1XMH1**	—	—

** For nonhanded lift-off hinge, order 1XMG9, 49U523, 49U524, 49U525 or 49U527.*

A.
2YFF5

A.
2YFG6

B.
2YFG8

C.
2YEY1

D.
2YEY3

E.
2YFF9

Load-Rated Continuous Hinges with Holes

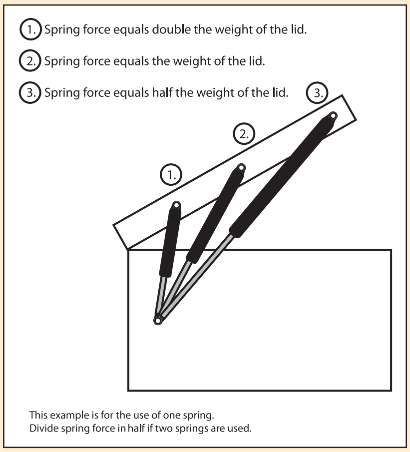
Markar
ASSA ABLOY

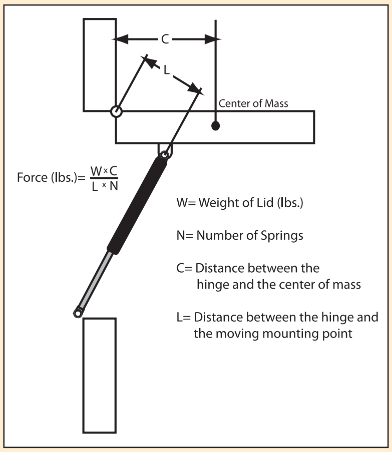
- Hardware included

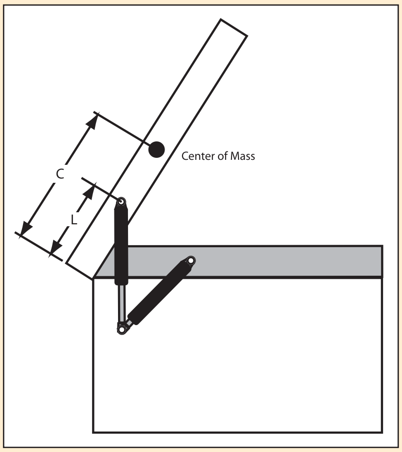
All hinges are heavy-duty, 14-ga. steel and are rated for doors weighing up to 600 lb., up to 1¾" thick, and with a max. door width of 4 ft. Min. door clearance of ⅛", except for 2YEY3 and 2YEY4 which are ⅜". Hinges have 1⅞" knuckles, ¾"-dia. 304 stainless steel hinge pins, and long-life split nylon bearings.

Key	H	Leaf Thickness	304 STAINLESS STEEL Item No.	1012 CARBON STEEL Item No.	ALUMINUM WITH CLEAR FINISH Item No.	ALUMINUM WITH DARK BRONZE FINISH Item No.
A	84"	0.4375 in	**2YEX8**	**2YFF5**	**2YFG4**	**2YFG6**
A	96"	0.4375 in	**2YEX9**	**2YFF6**	**2YFG5**	**2YFG7**
B	84"	0.4375 in	**2YEX6**	**2YFF3**	**2YFG8**	**2YFH1**
B	96"	0.4375 in	—	**2YFF4**	**2YFG9**	**2YFH2**
C	84"	0.437 in, 0.125 in	**2YEY1**	**2YFF7**	—	—
C	96"	0.437 in, 0.125 in	**2YEY2**	**2YFF8**	—	—
D	84"	0.125 in	**2YEY3**	—	—	—
D	96"	0.125 in	**2YEY4**	—	—	—
E	84"	0.125 in	**2YEY5**	**2YFF1**	**2YFF9**	**2YFG2**
E	96"	0.125 in	**2YEY6**	**2YFF2**	**2YFG1**	**2YFG3**

Choosing the Right Gas Spring







Gas springs are the perfect solution for almost any hinged application requiring lift assist. They can also be designed to hold a lid in the open position. Gas springs are filled with nitrogen, a nonflammable gas, as well as oil, to lubricate the internal components of the gas spring.

APPROXIMATING THE REQUIRED FORCE

The diagram above can be used to approximate the force required in the gas spring. A mounting point directly on the center of mass will result in a gas spring requiring about the same force as the weight of the lid. Directly between the center of mass and the hinge will require about double the force. Twice the distance from the hinge to the center of mass will require a force about half the weight of the lid.

CALCULATING THE REQUIRED FORCE

The gas spring force can be more closely approximated using the above diagrams and equation. The force calculated will be enough to hold the lid open in the fully extended position. Because of friction and other application variables, you may want to choose a spring with a force about 10% higher than calculated.

CHOOSING THE RIGHT LENGTH

To choose the right length gas spring, first determine the distance between the mounting points when the application is in the open or extended position. You will want to choose a gas spring with an extended length equal, or nearly equal, to this length.

Next, measure the distance between the mounting points when the application is closed or fully compressed. You will want to choose a gas spring with a compressed length that is less than this length. Choosing a gas spring with a longer compressed length will result in an application that will not work properly. The stroke length of the gas spring can be calculated as the difference between the extended length and compressed length.

Steel and 316L Stainless Steel Gas Springs

Bansbach easylift

- Temp. range: -22° to 176°F

Steel springs feature CeramPro®-treated rod technology to provide a smooth, durable surface. Powder-coated cylinders provide maximum resistance to corrosion. Springs are filled with nitrogen (N_2). Stainless steel springs are constructed of 316L stainless steel. Please be sure to note the thread sizes on either end of the gas spring and that of the fitting when matching the 2. More traction, locking and high temperature gas springs with elbow fittings are available on Grainger.com.

D9215

Rod Dia.	Stroke	Extended Length	Compressed Length	Cylinder Dia.	▶CHOOSE: Force	Rod Thread Size	Item No.
Steel							
0.24 in	2.36 in	5.91 in	3.55 in	0.59 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb	M5	**D9215**
0.24 in	3.54 in	8.15 in	4.61 in	0.59 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb	M5	**D9216**
0.32 in	1.97 in	5.81 in	3.85 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9197**
0.32 in	3.15 in	8.35 in	5.2 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9198**
0.32 in	3.94 in	10.71 in	6.77 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9199**
0.32 in	5.51 in	13.74 in	8.23 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9201**
0.32 in	6.3 in	15.63 in	9.33 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9202**
0.32 in	7.87 in	18.19 in	10.32 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb	M8	**D9203**
0.32 in	8.27 in	18.62 in	10.35 in	0.75 in	100 lb, 110 lb, 120 lb, 130 lb	M8	**D9204**
0.32 in	9.84 in	22.36 in	12.52 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9205**
0.39 in	7.87 in	18.23 in	10.36 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9206**
0.39 in	10.24 in	26.38 in	16.14 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9207**
0.39 in	12.8 in	27.99 in	15.19 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9208**
0.39 in	13.78 in	29.41 in	15.63 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9209**
0.39 in	16.14 in	33.94 in	17.99 in	0.87 in	50 lb, 75 lb, 25 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9211**
0.55 in	7.99 in	18.9 in	11.03 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9212**
0.55 in	12 in	26.77 in	14.96 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9213**
0.55 in	15.98 in	34.84 in	19.09 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9214**
316L Stainless Steel							
0.24 in	1.97 in	5.04 in	3.07 in	0.59 in	10 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb	M5	**D9224**
0.24 in	3.94 in	9.06 in	5.12 in	0.59 in	10 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb	M5	**D9225**
0.24 in	5.91 in	12.99 in	7.08 in	0.59 in	10 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb	M5	**D9226**
0.32 in	3.94 in	10.71 in	6.77 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9217**
0.32 in	5.51 in	13.74 in	8.23 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9218**
0.32 in	6.3 in	15.63 in	9.33 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9219**
0.32 in	7.87 in	18.19 in	10.32 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb	M8	**D9221**
0.32 in	8.27 in	18.62 in	10.35 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9222**
0.32 in	9.84 in	22.36 in	12.52 in	0.75 in	15 lb, 20 lb, 30 lb, 40 lb, 50 lb, 60 lb, 70 lb, 80 lb, 90 lb, 100 lb, 110 lb, 120 lb, 130 lb	M8	**D9223**
0.39 in	7.87 in	18.23 in	10.36 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9184**
0.39 in	10.24 in	26.38 in	16.14 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9185**
0.39 in	12.8 in	27.99 in	15.19 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9186**
0.39 in	16.14 in	33.94 in	17.99 in	0.87 in	25 lb, 50 lb, 75 lb, 100 lb, 125 lb, 150 lb, 175 lb, 200 lb, 225 lb, 250 lb	M8	**D9187**
0.55 in	7.99 in	18.9 in	10.91 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9188**
0.55 in	12 in	26.77 in	14.77 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9189**
0.55 in	15.98 in	34.84 in	18.86 in	1.1 in	200 lb, 250 lb, 300 lb, 350 lb, 400 lb, 500 lb, 550 lb	M10	**D9191**

1RBP9

1XPD5

4RRK3

4RRK9

4RRL2

1XPE2

1XPE3

1XPA6

4RRL7

5CRU5

1XPE5

5CRV4

1XPC8

1XPB8

1XPC1

4RRF3

3HJE8

Latches

- Hardware not included unless otherwise specified

Type	Finish	W	H	D	Item No.	
Latching Draw Hasps						
Latching	Zinc Plated	2 ¾ in	¾ in	¾ in	1RBP9	*
Draw Latches						
Adjustable	Passivated	2 43/64 in	19/32 in	1 3/16 in	1XPD5	
Adjustable	Passivated	4 7/16 in	37/64 in	⅞ in	1XPD6	
Adjustable Under Center	Natural	3 23/32 in	1 3/16 in	¾ in	4RRK8	
Adjustable Under Center	Zinc Plated	3 23/32 in	1 3/16 in	¾ in	4RRK7	
Adjustable Under Center, Concealed Secondary Catch	Natural	2 23/32 in	1 1/16 in	27/32 in	4RRK4	
Adjustable Under Center, Concealed Secondary Catch	Zinc Plated	2 23/32 in	1 1/16 in	27/32 in	4RRK3	
Adjustable Under Center, Concealed, Padlock Hasp	Natural	2 23/32 in	1 1/16 in	27/32 in	4RRK6	
Adjustable Under Center, Padlock Hasp	Natural	3 23/32 in	1 3/16 in	1 ⅛ in	4RRL1	
Adjustable Under Center, Padlock Hasp	Zinc Plated	3 23/32 in	1 3/16 in	1 ⅛ in	4RRK9	
Adjustable Under Center	Passivated	4 ¾ in	¾ in	2 in	1XPC9	
Flexible Over Center Concealed	Black	4 5/32 in	1 ¼ in	¾ in	4RRL4	
Over Center Single Hole Peg	Zinc Plated	1 ¾ in	½ in	5/16 in	4RRL2	
Over Center w/ Concealed Mounting	Passivated	2 7/32 in	1 ¾ in	2 in	1XPE2	
Over Center w/ Concealed Mounting	Passivated	3 in	1 ¼ in	1 7/64 in	1XPE4	
Over Center w/ Exposed Mounting	Passivated	1 7/16 in	1 ¾ in	2 in	1XPE1	
Over Center w/ Exposed Mounting	Passivated	3 in	1 ¼ in	1 7/64 in	1XPE3	
Rubber T-Handle	Black Rubber	3 13/32 in	3 ⅛ in	1 ¼ in	1XPA6	
Rubber T-Handle	Black Rubber	4 21/64 in	1 3/32 in	23/64 in	1XPA7	
Rubber T-Handle	Black Rubber	5 ⅛ in	3 ⅝ in	1 ⅝ in	1XPA8	
Rubber T-Handle, Flexible, Pull Type, Concealed Mounting	Black	1 19/64 in	3 5/32 in	15/32 in	4RRL7	
Rubber T-Handle, Flexible, Pull Type, Front Mounting	Black	8 23/32 in	1 13/16 in	1 ⅛ in	4RRN1	

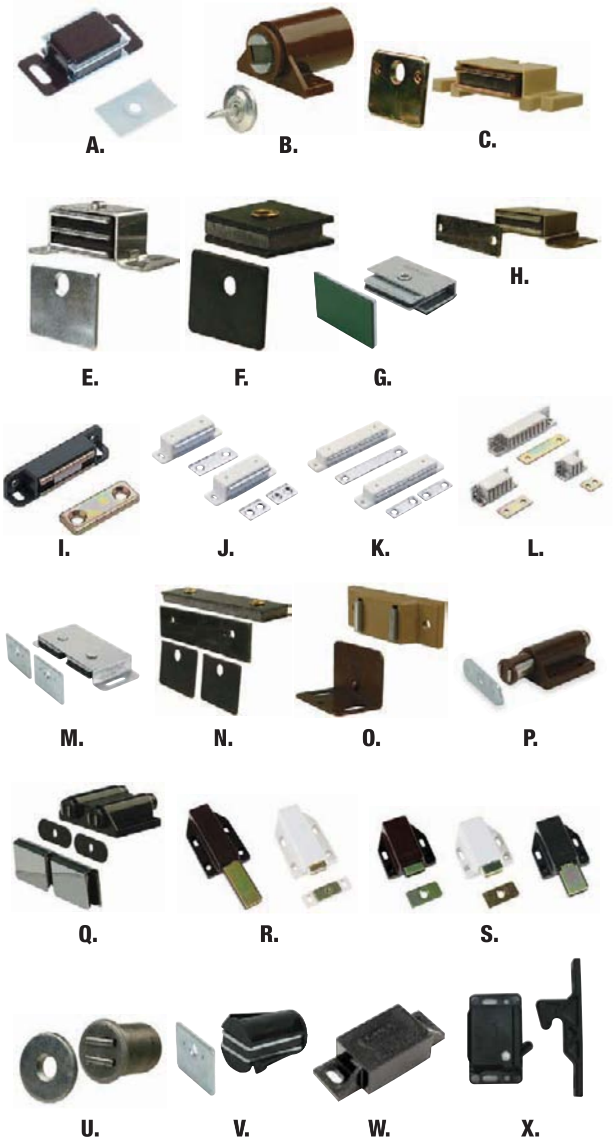
*** Includes hardware.***

Type	Finish	W	H	D	Item No.	
Rubber T-Handle, Flexible, Pull Type, Front Mounting	Black	4 13/32 in	1 27/32 in	1 ¼ in	4RRL8	
Spring-Loaded	Natural	2 ½ in	1 ½ in	½ in	5CRU5	
Spring-Loaded	Natural	3 ½ in	1 ¾ in	⅝ in	5CRU6	
Under Center w/ Keeper	Natural	3 ¼ in	1 29/64 in	1 in	1XPE5	
Under Center w/ Keeper	Natural	3 ⅜ in	¾ in	1 ½ in	1XPE7	
Under Center w/ Keeper, Padlockable	Natural	3 ¼ in	⅞ in	1 ¼ in	1XPE6	
Draw-to-Close	Polished	1 ½ in	1 37/64 in	15/32 in	5CRV4	
Draw-to-Close	Polished	—	3 5/32 in	¾ in	5CRV5	
Draw-to-Close	Polished	2 3/64 in	2 3/64 in	2 3/64 in	5CRV8	
Pivot Pawl Latches						
Push to Close/Locking	Black Powder Coated	6 11/16 in	⅞ in	1 ⅞ in	1XPC8	
Paddle Latches						
Push to Close/Locking	Black Powder Coated	4 ¾ in	3 ⅝ in	⅞ in	1XPB8	
Push to Close/Locking	Passivated	5 ½ in	4 ¼ in	⅞ in	1XPC4	
Push to Close/Locking	Zinc Plated	4 ¾ in	3 ⅝ in	⅞ in	1XPB7	
Push to Close/Locking	Zinc Plated	5 ½ in	4 ¼ in	⅞ in	1XPC2	
Push to Close/Nonlocking	Black Powder Coated	5 ½ in	4 ¼ in	⅞ in	1XPC1	
Push to Close/Nonlocking	Zinc Plated	5 ½ in	4 ¼ in	⅞ in	1XPB9	
Push to Close/Nonlocking	Zinc Plated	4 ¾ in	3 ⅝ in	⅞ in	1XPB5	
Cam Latches						
Slotted	Passivated	2 5/16 in	1 ¼ in	1 in	1XPF1	*
Slotted	Black Powder Coated	2 5/16 in	1 ½ in	21/32 in	1XPF4	*
Slotted	Chrome	2 5/16 in	2 ¾ in	¾ in	1XPF5	*
Fixed Grip	Passivated	2 5/16 in	1 3/32 in	1 ⅛ in	4RRF3	*
Fixed Grip	Polished Chrome	2 5/16 in	1 3/32 in	1 ⅛ in	4RRF4	*
Fixed Grip	Passivated	2 5/16 in	1 3/32 in	1 ⅛ in	4RRF6	*
Fixed Grip	Polished Chrome	2 5/16 in	1 3/32 in	1 ⅛ in	4RRF7	*
Compression Latches						
Lift and Turn/Nonlocking	Polished Chrome	2 ¼ in	1 ¼ in	1 17/32 in	4RPZ2	
Lift and Turn/Nonlocking	Black Powder Coated	2 ¼ in	1 ¼ in	1 17/32 in	4RPZ3	
Push Button/Nonlocking	Black Powder Coated	1 11/32 in	4 9/32 in	1 ⅜ in	4RRA4	
Push Button/Locking	Black Powder Coated	1 11/32 in	4 9/32 in	1 ⅜ in	4RRA6	
Vise Action/Nonlocking	Black Powder Coated	1 13/32 in	2 in	2 17/32 in	4RRC2	
Vise Action/Hex Recess T-Handle	Black Powder Coated	1 ⅛ in	1 ⅛ in	2 17/32 in	4RRC3	
Vise Action/Slotted Recess	Black Powder Coated	1 ⅛ in	1 ⅛ in	2 ½ in	4RRC6	
Secret Latch						
Single-Acting Reversible	Satin Chrome	2 1/16 in	11/16 in	—	3HJE8	

Magnetic Catches and Latches

Key	Pull Force	Catch L	Catch W	Strike L	Strike H	Material	Color	Hardware	Item No.
Surface-Mount Catches - Pull-to-Open									
A	1.7 lb	1 3/16 in	45/64 in	27/33 in	17/22 in	Aluminum	Brown	Included	**4EVT1**
A	3.3 lb	1 3/8 in	53/64 in	1 7/64 in	39/64 in	Aluminum	Silver	Included	**4EVT2**
A	6 lb	7/8 in	1 1/16 in	1 1/4 in	7/8 in	Steel	Silver	Included	**1VZY4**
A	13 lb	1 1/4 in	1 1/16 in	1 1/4 in	7/8 in	Steel	Silver	Included	**4PE51**
B	6 to 8 lb	11/16 in	55/64 in	33/64 in	33/64 in	Plastic	Brown	Not Included	**4FCU6**
C	10 to 15 lb	17/32 in	27/32 in	1 in	13/16 in	Plastic and Steel	Tan	Included	**4FCU8**
E	6.5 lb	47/64 in	1 in	1 1/8 in	3/4 in	Aluminum	Silver	Included	**4FCV1**
E	13 lb	47/64 in	1 in	1 1/8 in	3/4 in	Aluminum	Silver	Included	**4FCV3**
F	6 lb	5/16 in	59/64 in	1 1/8 in	13/16 in	Steel	Black	Included	**4FCV5**
Surface-Mount Magnets - Pull-to-Open									
G	14 lb	27/64 in	3/4 in	1 1/4 in	3/4 in	Aluminum	Silver	Not Included	**1XMT7**
Surface-Mount Catches - Pull-to-Open									
H	34 lb	29/32 in	2 in	2 11/16 in	3/4 in	Brass	Brown	Included	**4FCV7**
I	17.6 lb	25/64 in	7/16 in	1 3/16 in	7/16 in	Steel	Gray	Included	**4EVN1**
I	17.6 lb	25/64 in	7/16 in	1 3/16 in	7/16 in	Steel	White	Included	**4EVN2**
J	6.1 lb	45/64 in	5/8 in	1 1/2 in	35/64 in	Steel	White	Included	**4EVP8**
J	6.1 lb	45/64 in	5/8 in	25/32 in	33/64 in	Steel	White	Included	**4EVP9**
J	5.2 lb	43/64 in	15/32 in	1 3/16 in	29/64 in	Steel	White	Included	**4EVR1**
K	12.3 lb	13/16 in	5/8 in	3 7/64 in	35/64 in	Stainless Steel	White	Included	**4EVR2**
K	12.3 lb	13/16 in	5/8 in	1 1/2 in	35/64 in	Stainless Steel	White	Included	**4EVR3**
K	10.5 lb	43/64 in	33/64 in	2 3/4 in	15/32 in	Stainless Steel	White	Included	**4EVR4**
K	31 lb	43/64 in	43/64 in	—	—	Stainless Steel	Silver	Not Included	**5ENW0**
K	11 lb	23/64 in	7/16 in	—	—	Stainless Steel	Silver	Not Included	**5ENW2**
K	15 lb	43/64 in	43/64 in	—	—	Stainless Steel	Silver	Not Included	**5ENV9**
K	10.5 lb	43/64 in	33/64 in	1 3/16 in	7/16 in	Stainless Steel	White	Included	**4EVR5**
L	6.6 lb	27/32 in	27/32 in	55/64 in	3/4 in	Steel	Gray	Not Included	**4EVN5**
L	15.4 lb	27/32 in	27/32 in	1 9/64 in	3/4 in	Steel	Gray	Not Included	**4EVN6**
L	24.2 lb	27/32 in	27/32 in	1 11/16 in	3/4 in	Steel	Gray	Not Included	**4EVN7**
L	30.8 lb	27/32 in	27/32 in	2 23/64 in	3/4 in	Steel	Gray	Not Included	**4EVN8**
L	33 lb	27/32 in	27/32 in	2 23/64 in	3/4 in	Steel	Gray	Not Included	**4EVN4**
N	11 lb	9/32 in	25/32 in	1 1/8 in	13/16 in	Steel	Black	Included	**4FCW2**
N	22 lb	9/32 in	25/32 in	1 1/8 in	13/16 in	Steel	Black	Included	**4FCW4**
O	5 lb	13/32 in	45/64 in	1 1/8 in	3/4 in	Plastic	Tan	Included	**4FCW6**
Surface-Mount Catches - Push-to-Open									
P	2.5 lb	1 1/8 in	1 1/8 in	1 3/8 in	1/2 in	Plastic and Steel	Brown	Included	**1WAA1**
P	2.5 lb	5/8 in	1 19/32 in	1 39/64 in	61/64 in	Plastic	Black	Included	**4FCW8**
P	2.5 lb	5/8 in	1 19/32 in	1 39/64 in	61/64 in	Plastic and Steel	Black	Included	**4FCX1**
P	4 lb	11/16 in	1 19/32 in	1 39/64 in	61/64 in	Plastic	Black	Included	**4FCX3**
Q	4 lb	11/16 in	1 19/32 in	1 39/64 in	61/64 in	Plastic	Black	Included	**4FCX5**
Surface-Mount Touch Latches - Push-to-Open									
R	5.2 lb	37/64 in	1 13/16 in	1 3/4 in	15/32 in	Plastic	Brown	Included	**5CJA5** *
R	5.2 lb	37/64 in	1 13/16 in	1 3/4 in	15/32 in	Plastic	White	Included	**5CJA6** †
S	3.5 lb	13/16 in	1 27/64 in	57/64 in	15/32 in	Plastic	Brown	Included	**5CRT9** *
S	3.5 lb	13/16 in	1 27/64 in	57/64 in	15/32 in	Plastic	White	Included	**5CRU0** †
S	3.5 lb	13/16 in	1 27/64 in	57/64 in	15/32 in	Plastic	Black	Included	**5CJA7** ‡
Mortise-Mount Catches- Pull-to-Open									
U	4 lb	3/4 in	27/32 in	3/4 in	3/4 in	Aluminum	Silver	Included	**4FCY2**
V	13 lb	63/64 in	5/8 in	1 1/4 in	3/4 in	Plastic	Black	Not Included	**1XMT5**
Sealed Magnetic Catches									
W	6.6 lb	53/64 in	33/64 in	—	—	Polyacetal	Black	Not Included	**4EVP2**
W	3.3 lb	3/4 in	3/4 in	—	—	Polyacetal	Light Gray	Not Included	**4EVP4**
Grab Catches									
X	—	2 1/8 in	3/4 in	2 1/8 in	1 3/8 in	Steel	Silver	Included	**1VZX5**
X	10 lb	35/64 in	1 7/64 in	2 53/64 in	29/64 in	Plastic	Black	Not Included	**1XMU3**
X	4 lb	3/4 in	1 3/32 in	1 1/4 in	3/5 in	Steel	Silver	Included	**4PE50**

** Brown color. † White color. ‡ Black color.*



Steel Drawer Slides, Side Mount

Precision ball bearings and raceways ensure smooth drawer operation. Slides have a positive stop so drawer will not disengage from the slide, and a hold-in detent firmly holds the drawer in a closed position. Load rating based on 50,000 cycles. Mounting screws included.

A. FULL EXTENSION WITH LEVER DISCONNECT

Drawer pulls out the entire length of the slide, except the 10" drawer travels only 9½". Slides have a lever release; just push the lever to release the drawer from the slide. Not for use on drawers that are wider than their length.

B. FULL EXTENSION, HOLD-OPEN WITH LEVER DISCONNECT

Same features as **A.**, but with an additional hold-open feature to hold the drawer in place when opened. Drawer requires greater pressure to close.

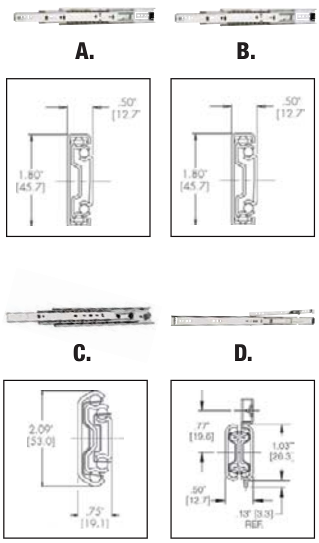
C. FULL EXTENSION WITHOUT DISCONNECT

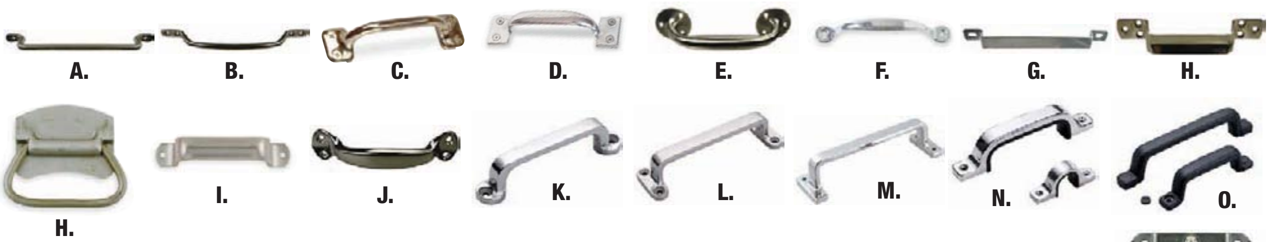
Drawer can be pulled out the full closed length of the slide. Once installed, drawer cannot be removed without disassembling the slides.

D. FULL EXTENSION WITH HANDED RAIL LIFT-OFF

Lift-out release feature allows the drawer to be easily lifted up and out of the slide. Slides are full extension, allowing the drawer to be pulled out the full closed length of the slide.

Key	Closed Length	Travel Length	Side Mount Load Cap. per Pair	ZINC PLATED Item No.
Full Extension with Lever Disconnect				
A	11.81 in	12 in	100 lb	**4KRV5**
A	13.78 in	14 in	100 lb	**4KRV6**
A	15.75 in	16 in	100 lb	**4KRV7**
A	17.72 in	18 in	100 lb	**4KRV8**
A	19.69 in	20 in	100 lb	**4KRV9**
A	21.65 in	22 in	100 lb	**4KRW1**
A	23.62 in	24 in	100 lb	**4KRW2**
A	27.56 in	28 in	100 lb	**4KRW4**
A	9.84 in	10 in	100 lb	**4KRV4**
Full Extension without Disconnect, Dual Mount				
A	18 in	18 in	500 lb	**4KRZ6**
A	24 in	24 in	500 lb	**4KRZ9**
A	36 in	36 in	500 lb	**4KTA5**
Full Extension, Hold-Open with Lever Disconnect				
B	15.75 in	16 in	100 lb	**4KRW8**
Full Extension without Disconnect				
C	12 in	12 in	273 lb	**4KRU4**
C	14 in	14 in	267 lb	**4KRU5**
C	16 in	16 in	261 lb	**4KRU6**
C	18 in	18 in	253 lb	**4KRU7**
C	20 in	20 in	244 lb	**4KRU8**
C	22 in	22 in	233 lb	**4KRU9**
C	24 in	24 in	220 lb	**4KRV1**
C	28 in	28 in	182 lb	**4KRV3**
Full Extension with Handed Rail Lift-Off				
D	8 in	8 in	75 lb	**4KRP8**
D	10 in	10 in	76 lb	**4KRP9**





Unthreaded Pull Handles

Key	Mounting Hole Ctr. to Ctr.	Inner Mtg. Hole Ctr. to Ctr.	Vert. Mtg. Hole Ctr. to Ctr.	Projection	Grip Dia.	Screw Size	Item No.
Steel, Natural Finish							
A	8 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY2**
A	10 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY3**
A	12 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY4**
A	14 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY5**
Steel, Polished Chrome Finish							
B	12 ⅛ in	10 ⅛ in	—	2 in	½ in	¼ in	**4KZZ5**
B	22 ¾ in	21 ¼ in	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZZ6**
B	40 ¾ in	39 ¼ in	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZZ8**
Steel, Polished Zinc Finish							
D	4 ⅛ in	—	11⁄16 in	1 ¼ in	½ in	#7 x ¾ in	**4PE15**
D	4 ⅞ in	—	⅞ in	1 13⁄32 in	¾ in	#8 x ⅝ in	**4PE17**
D	5 ½ in	—	1 in	1 13⁄32 in	¾ in	#9 x ¾ in	**4PE19**
D	6 ½ in	—	1 ⅜ in	2 ⅛ in	1 in	#12 x 1¼ in	**4PE21**
F	4 11⁄64 in	—	—	1 5⁄32 in	½ in	#6 x ¾ in	**4PE14**
G	5 ¾ in	—	—	1 ¼ in	¼ in	#10	**4LAE2**
G	11 ⅛ in	—	—	1 15⁄32 in	⅛ in	⅜ in	**4LAE3**
H	6 39⁄64 in	—	1 ⅜ in	2 ⅜ in	—	#10-18 x 1½ in	**4PE25**
H	7 ⅛ in	5 ⅝ in	⅝ in	1 19⁄32 in	5⁄16 in	#9	**4LAE6**
I	6 3⁄10 in	—	—	2 1⁄16 in	1 ⅛ in	#12 x 1½ in	**4PE24**
I	6 5⁄16 in	—	—	2 1⁄16 in	—	#12 x 1½ in	**1WAE5**
I	10 in	15⁄16 in	1 21⁄64 in	2 1⁄64 in	—	#10 x ¾ in	**1WAF6**
U	4 17⁄32 in	—	2 ⅜ in	—	51⁄64 in	10	**4LAP5**
Steel, Powder Coated Finish							
D	4 ⅕ in	—	11⁄16 in	1 ¼ in	½ in	#7 x ¾ in	**4PE16**
D	4 ¾ in	—	1 in	1 13⁄32 in	¾ in	#8 x ⅝ in	**4PE18**
D	5 ½ in	—	1 in	1 13⁄32 in	¾ in	#9 x ¾ in	**4PE20**
D	6 ½ in	—	1 ⅜ in	2 ⅛ in	1 in	#12 x 1¼ in	**4PE22**
F	4 11⁄64 in	—	—	1 5⁄32 in	½ in	#6 x ¾ in	**1VZZ9**
Steel, Solid White Finish							
D	4 ⅝ in	—	¾ in	1 11⁄32 in	—	#6 x ¾ in	**1WAB9**
Steel, Dull Brass Finish							
D	4 27⁄32 in	—	⅞ in	1 13⁄32 in	¾ in	#8 x ⅝ in	**1WAB5**
D	5 ½ in	—	1 in	1 15⁄32 in	¾ in	#9 x ¾ in	**1WAD3**
F	4 11⁄64 in	—	—	1 5⁄32 in	½ in	#6 x ¾ in	**1WAB1**
Steel, Galvanized Finish							
D	4 ⅞ in	—	⅞ in	1 ⅜ in	—	#8 x ⅝ in	**1WAC4**
D	5 ½ in	—	1 in	1 15⁄32 in	—	#8 x 1 in	**1WAC8**
F	4 ⅛ in	—	—	4 ⅞ in	½ in	#6 x ¾ in	**1WAA5**
I	6 5⁄16 in	—	—	2 1⁄16 in	—	#12 x 1½ in	**1WAD7**
I	6 ½ in	—	1 ⅜ in	2 ½ in	—	#12 x 1½ in	**1WAE9**
Rubber Coated Steel, Powder Coated Finish							
O	6 19⁄64 in	—	—	2 3⁄64 in	63⁄64 in	M6 or #12	**4WRZ2**
O	9 27⁄32 in	—	—	2 ¼ in	63⁄64 in	M6 or #12	**4WRZ3**
304 Stainless Steel, Natural Finish							
A	8 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY6**
A	12 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY8**
A	14 in	—	—	2 ⅝ in	⅝ in	5⁄16 in	**4KZY9**
E	1 1⁄32 in	4 19⁄32 in	1 1⁄32 in	2 ¼ in	¾ in	#8	**4LAE1**
G	5 ¾ in	—	—	1 ¼ in	¼ in	¼ in	**4LAE4**
G	11 ⅛ in	—	—	1 15⁄32 in	⅛ in	⅜ in	**4LAE5**
304 Stainless Steel, Polished Finish							
B	12 ⅛ in	10 ⅛ in	—	2 in	½ in	¼ in	**4KZZ9**
D	4 5⁄32 in	—	11⁄16 in	1 19⁄64 in	9⁄16 in	#8 x ¾ in	**4LAC4**
D	4 ¾ in	—	61⁄64 in	1 13⁄32 in	¾ in	#8 x ⅝ in	**4LAC5**
D	5 ½ in	—	15⁄16 in	1 17⁄32 in	¾ in	#9 x ¾ in	**4LAC6**
D	6 9⁄16 in	—	1 11⁄32 in	2 ⅛ in	1 in	#12 x 1¼ in	**4LAC7**
H	7 ⅛ in	5 ⅝ in	⅝ in	1 19⁄32 in	5⁄16 in	¼ in	**4LAE7**
K	2 ¼ in	—	—	⅝ in	9⁄32 in	#16 x 3 in	**4WRL5**
K	2 27⁄32 in	—	—	25⁄32 in	5⁄16 in	#16 x 3 in	**4WRL6**
K	3 15⁄32 in	—	—	63⁄64 in	25⁄64 in	#20 x 3⅘ mm	**4WRK9**
L	4 11⁄64 in	4 11⁄64 in	61⁄64 in	1 1⁄16 in	15⁄32 in	#20 x 3⅘ in	**4WRL1**
L	5 3⁄16 in	5 3⁄16 in	1 3⁄16 in	1 19⁄64 in	19⁄32 in	#25 x 5 in	**4WRL2**
316 Stainless Steel, Polished Finish							
M	6 57⁄64 in	—	1 25⁄32 in	1 31⁄32 in	⅞ in	M6 x #35	**4WRL3**
304 Stainless Steel, Satin Finish							
N	2 ⅛ in	—	—	1 7⁄64 in	43⁄64 in	#16 x 3 in	**4WRY8**
N	4 1⁄64 in	—	—	1 17⁄64 in	¾ in	#20 x 3½ in	**4WRY4**
N	5 33⁄64 in	—	—	1 15⁄32 in	⅞ in	#25 x 4 in	**4WRY6**
304 Stainless Steel, Polished Finish							
N	2 ⅛ in	—	—	1 7⁄64 in	43⁄64 in	#16 x 3 in	**4WRY7**
N	4 1⁄64 in	—	—	1 17⁄64 in	¾ in	#20 x 3½ in	**4WRY3**
N	5 33⁄64 in	—	—	1 15⁄32 in	⅞ in	#25 x 4 in	**4WRY5**
Aluminum, Matte Finish							
B	12 ⅛ in	10 ⅛ in	—	2 in	½ in	¼ in	**4KZZ4**
E	8 ⅞ in	6 ½ in	1 in	2 ⅜ in	¾ in	#8	**4LAD7**
T	4 in	—	—	1 5⁄16 in	5⁄16 in	8-32	**4KZG2**
Cast Iron, Tan Powder Coated Finish							
E	4 15⁄16 in	—	⅞ in	1 ½ in	⅜ in	#12	**4LAD4**
Cast Brass, Polished Finish							
C	—	—	—	—	—	#6 x ¾"	**4JH14**
D	4 15⁄16 in	—	19⁄32 in	1 1⁄16 in	19⁄64 in	#8	**4LAD1**
Zinc, Polished Chrome Finish							
J	7 in	—	1 in	1 25⁄32 in	⅝ in	¼ in	**4LAE8**
Thermoplastic, Black							
P	3 11⁄16 in	—	—	1 27⁄64 in	¼ in	M6 x ½ in	**4LAE9**
P	4 39⁄64 in	—	—	1 ¾ in	9⁄32 in	M8 x ½ in	**4LAF1**
P	5 13⁄64 in	—	—	1 49⁄64 in	9⁄32 in	M8 x ½ in	**4LAF2**
P	7 3⁄64 in	—	—	1 31⁄32 in	5⁄16 in	M8 x ½ in	**4LAF3**
P	9 ¼ in	—	—	2 ⅛ in	23⁄64 in	M10 x ½ in	**4LAF4**
Phenolic, Black							
P	4 ¼ in	—	—	1 ¾ in	⅜ in	¼ in	**4LAF5**
Technopolymer, Flex Handle							
R	4 43⁄64 in	—	4 43⁄64 in	1 ½ in	21⁄64 in	21⁄64 in	**15E730**
Chemical-Resistant Wing Handle							
S	3 11⁄16 in	—	—	1 ¼ in	¼ in	21⁄64 in	**15E733**

Folding Pull Handles with Mounting Plate

Key	Mounting Hole Center to Center	Vert. Mounting Hole Ctr. to Ctr.	Grip Dia.	Screw Size	Item No.
Unthreaded Through Holes					
Steel, Polished Zinc Finish					
A	1 ½ in	1 ¾ in	5⁄16 in	10	**4LAK6**
B	2 in	1 ¼ in	¼ in	#6 x ¾ in	**1WAF8**
B	2 ¾ in	1 ⅞ in	⅜ in	#10 x ¾ in	**4PE27**
B	3 in	2 in	⅜ in	#10 x 1 in	**4PE28**
B	3 ¾ in	2 ¾ in	⅜ in	#12 x 1¼ in	**1WAG1**
D	5 ⅛ in	1 3⁄16 in	¾ in	10	**4LAL4**
E	5 ⅝ in	1 21⁄32 in	¾ in	8	**4LAL5**
Steel, Black FInish					
A	1 3⁄16 in	1 ¾ in	5⁄16 in	10	**4LAK7**
B	3 25⁄32 in	2 ⅞ in	5⁄16 in	10	**4LAK8**
D	6 ½ in	1 3⁄32 in	17⁄32 in	10	**4LAL6**
Steel, Polished Nickel Finish					
H	3 ⅜ in	2 ⅞ in	⅝ in	¼	**4LAN2**
I	3 in	1 ¾ in	¼ in	8	**4LAN4**
304 Stainless Steel, Natural Finish					
C	4 ¾ in	2 ¾ in	5⁄16 in	10	**4LAK9**
300 Stainless Steel, Natural Finish					
C	4 ¾ in	2 ¾ in	9⁄16 in	10	**4LAL2**
300 Stainless Steel, Polished Finish					
D	4 3⁄16 in	1 ⅛ in	17⁄32 in	10	**4LAL8**
Aluminum, Black Finish					
J	3 in	1 ¼ in	¼ in	6	**4LAN5**
Weld-On					
Steel, Natural Finish					
H	3 ⅜ in	2 ⅞ in	⅝ in	—	**4LAN3**
H	—	—	⅜ in	—	**4PE26**
304 Stainless Steel, Natural Finish					
F	3 ½ in	1 ⅜ in	¼ in	—	**4LAL9**
G	3 ⅜ in	1 ¾ in	5⁄16 in	—	**4LAN1**

Key	Snap Opening	Eye Inside Dia.	Overall Length	Item No.
Zinc Die Cast, Nickel-Plated				
A	7/16 in	1/2 in	3 1/4 in	**4GGJ2**
A	7/16 in	5/8 in	3 3/8 in	**4GGJ3**
A	7/16 in	3/4 in	3 1/2 in	**4GGJ4**
B	3/8 in	—	4 in	**4FCG3**
B	7/16 in	—	4 5/8 in	**4FCG4**
D	7/16 in	1 in Strap Width	3 3/8 in	**4FCN1**
E	1/4 in	3/8 in	2 1/2 in	**4FCG6**
E	5/16 in	1/2 in	3 in	**4FCG7**
E	3/8 in	5/8 in	3 1/2 in	**4FCG8**
E	3/8 in	3/4 in	3 1/2 in	**4FCG9**
E	3/8 in	7/8 in	3 3/4 in	**4FCJ6**
E	3/8 in	1 in	3 7/8 in	**4FCJ7**
E	3/8 in	7/8 in	4 1/16 in	**4FCJ8**
F	7/16 in	3/4 in Strap Width	3 1/4 in	**4GGL2**
G	5/16 in	1 in Strap Width	3 1/8 in	**4FCL2**
Steel, Chrome-Plated				
B	7/16 in	3/8 in	3 3/4 in	**1RCB1**
E	7/16 in	3/8 in	3 in	**4PB86**
Iron Casting, Zinc-Plated				
B	5/16 in	—	4 in	**4FCJ3**
B	7/16 in	—	4 5/8 in	**4FCJ4**
C	5/16 in	5/16 in	2 5/8 in	**4GGJ5**
C	11/32 in	3/8 in	3 3/8 in	**4GGJ6**

Key	Snap Opening	Eye Inside Dia.	Overall Length	Item No.
C	3/8 in	9/16 in	3 1/2 in	**4GGJ7**
C	3/8 in	9/16 in	4 in	**4GGJ8**
C	9/16 in	7/8 in	5 1/2 in	**4GGK1**
C	9/16 in	1 in	6 in	**4GGJ9**
Iron Casting, Nickel-Plated				
E	5/16 in	5/8 in	3 1/4 in	**4FCJ9**
Bronze				
B	7/16 in	—	4 3/4 in	**4FCJ5**
C	3/8 in	1/2 in	3 1/2 in	**4GGK2**
C	3/8 in	9/16 in	4 in	**4GGK3**
E	1/4 in	7/16 in	3 in	**4FCH1**
E	7/16 in	3/8 in	3 in	**4PB87**
E	9/16 in	1 1/4 in	4 3/4 in	**4FCH2**
H	3/8 in	3/4 in	3 5/8 in	**4GGL3**
316 Stainless Steel				
B	7/16 in	—	4 in	**4FCG5**
E	1/4 in	7/16 in	2 1/2 in	**4GGK4**
E	5/16 in	1/2 in	3 1/8 in	**4GGK5**
E	3/8 in	5/8 in	3 7/16 in	**4GGK6**
E	3/8 in	3/4 in	3 5/8 in	**4GGK7**
E	1/2 in	1 5/16 in	4 3/4 in	**4GGK8**
E	1/2 in	1 7/16 in	4 7/8 in	**4GGK9**
Brass, Nickel-Plated				
E	1/8 in	5/16 in	1 7/8 in	**4FCL1**

A. **B.** **E.**

Slide Bolt Spring Snaps

- Nonload-rated, not for lifting
- Models **E.** to **H.** have swivel eyes

A.

B.

C.

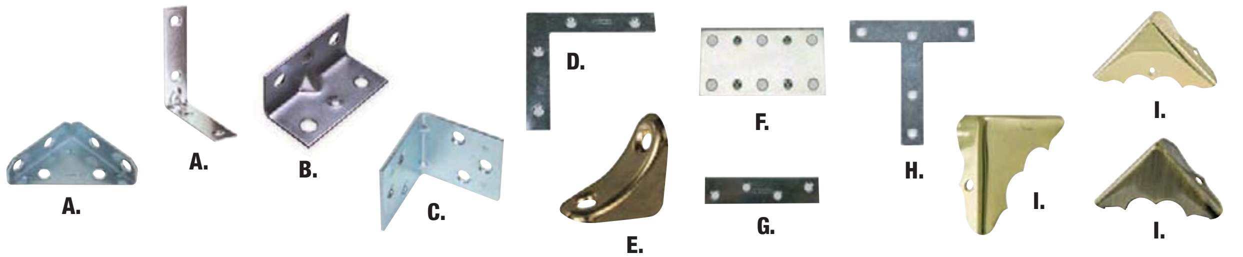
D.

E.

F.

Magnetic-Mount Hooks

Key	Hook Height	Hook Base Width	D	Hook Finish	Working Load Limit	Item No.
A	2 1/2 in	2 1/2 in	4 1/4 in	Painted	15 lb	**4HDY5**
B	1 3/8 in	1 27/64 in	1 5/8 in	Unfinished	4 lb	**4HDZ5**
C	1 1/4 in	1 1/8 in	1/4 in	Chrome	45 lb	**3DXY2**
D	1 in	1 13/32 in	1/4 in	Chrome	40 lb	**3DXY3**
E	1 3/8 in	—	1/4 in	Chrome	20 lb	**6YA67**
F	1 in	2 in	1 in	Polished	20 lb	**35HV66**



A. **A.** **B.** **C.** **D.** **E.** **F.** **G.** **H.** **I.** **I.** **I.**

Braces and Reinforcement Hardware

Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Inside Corner Braces					
Zinc					
A	3/4 in	1/2 in	1	**1WDD4**	1
A	1 in	1/2 in	1	**4PB60**	1
A	1 1/2 in	1/2 in	2	**4PB61**	1
A	2 in	5/8 in	2	**4PB62**	1
A	2 in	2 11/16 in	2	**1WDD1**	1
A	2 1/2 in	5/8 in	2	**1WDD5**	1
A	3 in	3/4 in	2	**4PB63**	1
A	3 1/2 in	3/4 in	2	**1WDD6**	1
A	3 in	3 in	2	**1WDD2**	1
A	4 in	7/8 in	2	**4PB64**	1
A	4 in	4 in	2	**1WDD3**	1
A	5 in	1 in	3	**4PB65**	1
A	6 in	1 3/32 in	3	**1WDD7**	1
A	8 in	1 3/32 in	3	**4PB66**	1
A	10 in	1 1/4 in	4	**1WDD8**	1
Galvanized					
A	1 in	1/2 in	1	**1WDD9**	2
A	1 1/2 in	1/2 in	2	**1WDE1**	2
A	2 in	5/8 in	1	**1WDE2**	2
A	2 1/2 in	19/32 in	2	**1WDE3**	2
A	3 in	23/32 in	2	**1WDE4**	2
A	4 in	7/8 in	2	**1WDE5**	2
A	5 in	1 in	3	**1WDE6**	1
A	6 in	1 3/32 in	3	**1WDE7**	1
A	10 in	1 1/4 in	4	**1WDE9**	1
Brass					
A	1 in	1/2 in	1	**1WDF4**	4
A	1 1/2 in	1/2 in	2	**1WDF5**	2
A	2 in	5/8 in	2	**1WDF6**	2
A	2 1/2 in	3/5 in	2	**1WDF7**	4
A	3 in	3/4 in	2	**1WDF8**	4

Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Corner Braces					
Zinc					
B	1 1/2 in	3/4 in	2	**1WDJ4**	4
B	2 1/2 in	3/4 in	3	**1WDJ5**	4
B	3 1/2 in	3/4 in	3	**1WDJ6**	4
Double Corner Braces, Zinc					
C	1 1/2 in	1 1/2 in	3	**1WDF1**	1
C	2 in	1 1/2 in	3	**4PE75**	1
C	2 1/2 in	1 1/2 in	3	**4PE76**	1
Flat Corner Braces					
D	1 1/2 in	3/8 in	2	**4PE71**	1
D	2 in	3/8 in	2	**4PE72**	1
D	2 1/2 in	1/2 in	2	**4PE73**	1
D	3 in	31/64 in	2	**4PE74**	1
D	3 1/2 in	3/5 in	2	**1WDK7**	1
D	4 in	3/4 in	2	**1WDK8**	1
D	5 in	7/8 in	2	**1WDK9**	1
D	6 in	1 in	3	**1WDL1**	1
Galvanized					
D	3 in	1/2 in	2	**1WDL3**	4
D	4 in	5/8 in	2	**1WDL4**	4
Chair Braces					
Brass					
E	1 2/5 in	3/4 in	1	**1WDL8**	4
Zinc					
E	1 2/5 in	3/4 in	1	**1WDL9**	4
Antique Bronze					
E	1 2/5 in	3/4 in	1	**1WDN1**	4
Mounting Braces, Zinc					
F	2 1/2 in	1 2/5 in	6	**1WDJ2**	4
F	3 1/2 in	1 2/5 in	6	**1WDJ3**	4

Key	L (in.)	W (in.)	Holes per Leaf	Item No.	Pkg. Qty.
Mending Plates					
Zinc					
G	2 in	5/8 in	2	**4PB67**	1
G	3 in	3/4 in	4	**1WDG3**	1
G	4 in	7/8 in	4	**4PB68**	1
G	5 in	1 in	4	**1WDG4**	1
G	6 in	1 1/8 in	4	**1WDG5**	1
G	8 in	1 1/4 in	4	**1WDG6**	1
G	10 in	1 in	6	**1WDG7**	1
G	12 in	1 1/8 in	6	**1WDG8**	1
Galvanized					
G	2 in	5/8 in	2	**1WDG9**	1
G	4 in	7/8 in	4	**1WDH2**	1
G	5 in	1 in	4	**1WDH3**	1
G	8 in	1 1/8 in	4	**1WDH4**	1
Brass					
G	4 in	27/32 in	4	**1WDH9**	4
Tee Plates, Zinc					
H	2 1/2 in	5/8 in	2 on Stem/3 on Top	**4PB69**	1
H	3 in	3 in	2 on Stem/3 on Top	**1WDK4**	1
H	4 in	7/8 in	2 on Stem/3 on Top	**1WDK5**	1
H	5 in	5 in	2 on Stem/3 on Top	**1WDK6**	1
Solid Brass Decorative Corner Braces					
I	1 1/4 in	1 1/4 in	1	**1XMP3**	4
I	1 7/10 in	1 7/10 in	1	**1XMP4**	4

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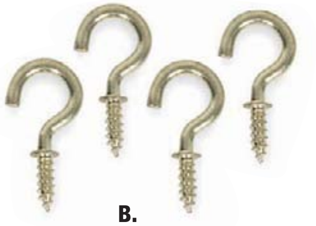
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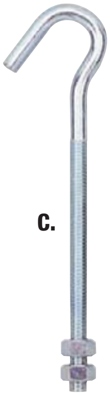
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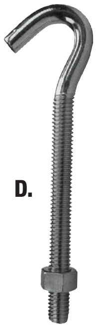
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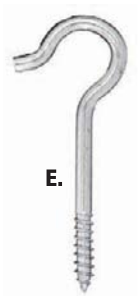
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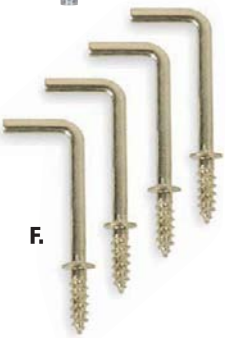
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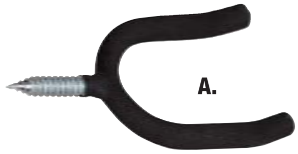
Light-Duty Screw-In Hooks

Key	Hook Opening	L	Thread Length	Finish	Item No.	Pkg. Qty.
Ceiling Hooks, Steel						
A	19⁄32"	3¼"	1 15⁄64 in	Zinc Plated	**1WBN5**	20
A	1"	1½"	25⁄64 in	Zinc Plated	**1WBN8**	20
A	1"	2"	⅝ in	Zinc Plated	**1WBN7**	20
Cup Hooks						
Steel						
B	¼"	13⁄16"	½ in	Brass	**1WBH3**	20
B	¼"	1 3⁄64"	½ in	Brass	**1WBH6**	20
B	¼"	1 25⁄64"	½ in	Brass	**1WBJ6**	20
B	⅓"	1 13⁄64"	½ in	Brass	**1WBH9**	20
B	⅜"	1 5⁄16"	½ in	Brass	**1WBJ3**	20
B	⅜"	1⅞"	½ in	Brass	**1WBJ9**	20
B	¾"	2 5⁄32"	½ in	Brass	**1WBK3**	20
Hook Bolt, Steel						
C	¾"	10"	3 ¼ in	Zinc Plated	**1RCE2**	1
Hook Bolts with 1 Hex Nut, Steel						
D	9⁄32"	13⁄16"	13⁄16 in	Zinc Plated	**4HDV4**	10
D	11⁄32"	15⁄16"	15⁄16 in	Zinc Plated	**4HDV5**	10
D	⅜"	1"	1 in	Zinc Plated	**4HDV6**	10
D	½"	1¼"	1 ⅞ in	Zinc Plated	**4HDV7**	10
D	⅝"	1½"	2 ¼ in	Zinc Plated	**4HDV8**	10
D	⅝"	1⅜"	3 ¾ in	Zinc Plated	**4HDV9**	10
D	15⁄16"	⅝"	⅝ in	Zinc Plated	**4HDV3**	10
Screw-In Hooks, Steel						
E	½"	3¾"	1 15⁄64 in	Zinc Plated	**1WBN4**	20
E	¾"	2½"	⅝ in	Zinc Plated	**1WBN6**	20
E	1"	1¼"	25⁄64 in	Zinc Plated	**1WBN9**	20
Shoulder Hooks						
F	—	53⁄64"	½ in	Brass	**1WBK5**	20
F	—	1 3⁄16"	½ in	Brass	**1WBK6**	20
F	—	1 13⁄16"	½ in	Brass	**1WBK8**	20
F	—	1 27⁄64"	½ in	Brass	**1WBK7**	20
F	—	2 5⁄32"	½ in	Brass	**1WBK9**	20
Square Bend Hooks, Steel						
G	—	1 3⁄16"	25⁄64 in	Zinc Plated	**1WBL6**	20
G	—	1½"	19⁄32 in	Zinc Plated	**1WBL4**	20
G	—	2"	¾ in	Zinc Plated	**1WBL3**	20
G	—	2⅜"	55⁄64 in	Zinc Plated	**1WBL2**	20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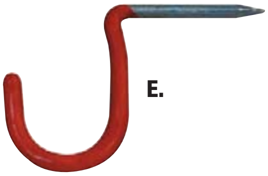
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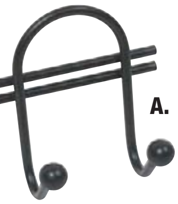
Vinyl-Coated Screw-In and Nail-In Hooks

Key	Item	L	Thread Length	Load Capacity	Item No.	Pkg. Qty.
Black Vinyl-Coated, Load Rated						
A	Screw In Hook	3⅝"	1 ⅜ in	50 lb.	**4ERX8**	1
D	Screw In Hook	8¾"	1 ¾ in	50 lb.	**4ERY1**	1
Red Vinyl-Coated, Not Load Rated						
E	Nail In Hook	2"	1 ⅜ in	—	**4ERX7**	10
F	Screw In Hook	2½"	⅞ in	—	**4ERW8**	10
G	Screw In Hook	3¼"	1 ⅜ in	—	**4ERW9**	10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Coat and Garment Racks & Hooks

Key	No. of Hooks	Hook Base Width	W	W	Hook Height	H	Finish	Brand	Item No.
Wall-Mounted									
A	1	4 in	4"	4"	4 in	4⅛"	Painted	—	**1HEY8**
B	2	4 in	4"	4"	5 in	5"	Painted	—	**1HEZ1**
C	3	10 ½ in	10⅜"	10⅜"	1 ¾ in	1¾"	Painted	—	**1HEZ3**
D	5	30 ⅜ in	30½"	30½"	3 ¾ in	3¾"	Painted	—	**1HEZ7**
Board-Mounted									
E	3	10 in	3"	3"	3 in	3⅛"	Polished Brass	—	**1XNH7**
E	3	10 in	3"	3"	3 in	3⅛"	Polished Chrome	—	**1XNH8**
E	3	10 in	3"	3"	3 in	3⅛"	Satin Nickel	—	**1XNH9**
F	4	16 ½ in	3"	3"	3 in	1⅝"	Polished Chrome	—	**1XNJ2**
F	4	16 ½ in	3"	3"	3 in	1⅝"	Satin Nickel	—	**1XNJ3**
Hooks									
G	1	1 3⁄16 in	1¼"	1¼"	1 ⅜ in	1¼"	Zinc Plated	—	**1HGL4**
G	2	2 ⅜ in	2⅜"	2⅜"	1 ¾ in	1¼"	Nickel Plated	—	**1XNF5**
G	1	1 23⁄32 in	—	—	1 ¾ in	1 27⁄32"	Satin	Sugatsune	**4CRV2**
G	1	45⁄64 in	—	—	2 ¾ in	2⅕"	Satin	Sugatsune	**4CRV3**
G	2	1 ¾ in	1⅛"	1⅛"	2 ¾ in	1¾"	Bright Brass	—	**4JG64**
G	1	1 ¾ in	1⅛"	1⅛"	2 ¾ in	1¾"	Plain	—	**4JG66**

Healthcare HD TVs

High-definition (HD) televisions for healthcare settings can withstand frequent, heavy use in hospital rooms, assisted-care facilities, and similar environments. They typically come with digital rights-management (DRM) technology and may be able to integrate with pillow speakers, education content systems, and other compatible technology used in patient-care facilities.

Note: Pro:Idiom is a digital content protection system tailored for the hospitality industry. It allows a central decoder in a hotel or facility to decrypt video from a headend or satellite feed and re-encode it for secure delivery to TV sets in each room.

HDTV Screen Size	HDTV Resolution	VESA Pattern	Pro:Idiom	HDMI Inputs	H	W	D	Brand	Item No.
14 in	1080	400x400	No	1	9 ⅛ in	13 ½ in	2 ¼ in	RCA	**45KY50**
14 in	1080	—	No	1	14 ⅛ in	13 ¾ in	1 ⅞ in	RCA	**56XN20**
24 in	720	75x75	Yes	3	13 ½ in	21 ¾ in	2 ⅛ in	LG	**481T76**
24 in	720	100x100	Yes	3	13 ⅛ in	21 ⅞ in	3 in	RCA	**55KN14**
28 in	720	200x200	No	1	15 ⅝ in	25 ⅜ in	2 ⅜ in	LG	**49AU96**
32 in	720	200x100	Yes	2	20 ⅛ in	31 ¼ in	2 ⅝ in	RCA	**22P327**
32 in	1080	200x200	No	1	17 ¼ in	28 ⅞ in	2 ¼ in	LG	**49AU97**
32 in	1080	400x400	Yes	2	17 ¼ in	28 ⅞ in	2 ¼ in	LG	**53RF59**
43 in	1080	200x200	No	1	22 ⅝ in	38 ¼ in	2 ¼ in	LG	**49AU98**
43 in	1080	200x200	Yes	2	22 ¾ in	38 ½ in	3 ⅛ in	RCA	**54UD47**
43 in	1080	200x200	No	2	22 ⅝ in	38 ⅜ in	2 ¼ in	LG	**54TW82**
55 in	2160 (4K)	200x200	Yes	3	28 ¼ in	48 ⅜ in	2 ⅝ in	RCA	**61UX56**

55KN14

53RF59

Correctional and Behavioral Health Facility HD TVs

High-definition (HD) televisions for correctional and behavioral-health facilities are typically tamperproof and have a clear body so that guards and staff can check that the TVs aren't being used to hide contraband. These TVs are used in prisons, behavioral-health institutions, and similar facilities where inmates or patients are at risk of harming themselves or others.

HDTV Screen Size	HDTV Resolution	VESA Pattern	Speakers	V-Chip	H	W	D	Item No.
13 in	1080	75x75	1	Yes	12 ⅛ in	14 ⅜ in	2 ½ in	**454W07**
13 in	1080	75x75	0	Yes	12 ⅛ in	14 ⅜ in	2 ½ in	**454W09**
15 in	720	100x100	1	Yes	12 ⅜ in	15 ⅜ in	2 ½ in	**454W08**
15 in	720	100x100	0	Yes	12 ⅜ in	15 ⅜ in	2 ½ in	**454W10**

454W07

Prosumer and Entry Level Commercial HD TVs

These commercial high-definition televisions provide longer life in frequent, high-use settings than standard consumer TVs. They are suitable for use in a range of commercial settings, such as break rooms.

Note: Pro:Idiom is a digital content protection system tailored for the hospitality industry. It allows a central decoder in a hotel or facility to decrypt video from a headend or satellite feed and re-encode it for secure delivery to TV sets in each room.

HDTV Screen Size	HDTV Resolution	VESA Pattern	Pro:Idiom™	HDMI Inputs	H	W	D	Brand	Item No.
22 in	1080	200x100	No	1	14 ⅛ in	21 in	1 ⅞ in	RCA	**49AU92**
28 in	720	—	No	2	15 ⅜ in	25 ⅛ in	3 in	RCA	**36JH26**
28 in	720	200x100	No	3	15 ⅜ in	25 ¼ in	2 ⅞ in	RCA	**49AU93**
32 in	1080	200x100	No	3	17 ⅜ in	29 ¾ in	3 in	RCA	**61MP42**
43 in	1080	400x200	No	2	22 ⅞ in	39 ½ in	3 ½ in	RCA	**52CW97**
49 in	1080	200x200	No	3	43 ¾ in	43 ¾ in	3 ⅞ in	RCA	**481T78**
55 in	1920 x 1080	400x200	No	3	31 ½ in	49 ⅝ in	9 in	RCA	**60JU40**
55 in	3840 x 2160	200x200	—	3	30 ½ in	48 ¾ in	11 ⅞ in	LG	**60JU42**

49AU92

60JU42

Hospitality HD TVs

Hospitality high-definition (HD) televisions can withstand frequent, heavy use in hotel rooms and similar hospitality settings. They typically come with digital rights-management (DRM) technology and require a compatible setup for installation.

Note: Pro:Idiom is a digital content protection system tailored for the hospitality industry. It allows a central decoder in a hotel or facility to decrypt video from a headend or satellite feed and re-encode it for secure delivery to TV sets in each room.

HDTV Screen Size	HDTV Resolution	VESA Pattern	Pro:Idiom	HDMI Inputs	H	W	D	Brand	Item No.
22 in	1080	200x100	No	1	14 ⅛ in	21 in	1 ⅞ in	RCA	**49AU92**
28 in	720	200x100	No	3	15 ⅜ in	25 ¼ in	2 ⅞ in	RCA	**49AU93**
32 in	1080	200x200	Yes	3	17 ⅜ in	28 ⅞ in	2 ¼ in	LG	**54TW78**
32 in	1080	100x100	Yes	3	17 ⅛ in	28 ¾ in	2 in	RCA	**61MP43**
40 in	1080	200x200	Yes	3	21 ⅝ in	36 ⅝ in	3 ⅜ in	RCA	**60UP04**
43 in	1080	200x200	No	2	22 ⅝ in	38 ⅜ in	2 ¼ in	LG	**54TW82**
43 in	1080	200x200	Yes	3	22 ⅝ in	38 ⅜ in	2 ¼ in	LG	**54TW83**
43 in	1080	200x200	Yes	3	22 ⅝ in	38 ⅜ in	2 ¼ in	LG	**54TW84**
43 in	2160 (4K)	400x200	Yes	3	22 ¾ in	38 ½ in	3 ½ in	RCA	**60UP05**
49 in	2160 (4K)	400x200	Yes	3	25 ⅝ in	43 ¾ in	3 ⅜ in	RCA	**60UP06**
55 in	2160 (4K)	400x200	Yes	3	30 ½ in	49 ¼ in	3 ½ in	RCA	**61MP45**
55 in	2160 (4K)	300x300	Yes	3	30 ¾ in	49 in	11 ⅞ in	LG	**60NN32**
65 in	2160 (4K)	400x400	Yes	3	35 ⅞ in	57 ¾ in	3 ½ in	RCA	**61MP44**
75 in	2160 (4K)	600:400	Yes	3	38 ⅛ in	66 ⅜ in	3 ½ in	RCA	**61UX57**
85 in	2160 (4K)	800x400	Yes	3	44 in	76 ¼ in	3 ⅝ in	RCA	**61UX58**

54TW78

61MP43

460J63

460J66

460J67

Outdoor TVs

UltraView UHD models provide an all-season outdoor viewing experience. Come equipped with a high TNI panel, allowing sunlight readability without the risk of blackout. DC power ports provide power for small video equipment. Xtreme Outdoor Daylight Readable Display TV has a weatherproof design, providing protection against harsh outdoor elements. Soundbar system is easy to set-up and features Bluetooth connectivity. Built-in amplifier delivers high-quality audio performance power.

HDTV Screen Size	HDTV Resolution	Brightness	HDTV SmartTV Compatible	VESA Pattern	H	W	D	Item No.
UltraView UHD Outdoor TV								
49 in	2160 (4K)	500	No	400x200	30 ¾ in	49 in	8 ⅜ in	**460J63**
55 in	2160 (4K)	500	No	400x300	34 ⅜ in	55 ⅜ in	8 ⅜ in	**460J64**
65 in	2160 (4K)	500	No	400x400	39 ⅛ in	64 in	8 ⅜ in	**460J65**
Xtreme Outdoor Daylight Readable Display								
49 in	1080	700	No	600x400	30 ¼ in	49 ⅞ in	10 ⅞ in	**460J66**

Type	Watt (RMS)	Sensitivity (dB)	Impedance (ohms)	Frequency Response	Overall H (in.)	Overall W (in.)	Item No.
Soundbar System							
Waterproof, Wireless	80 W	106 dB	8 ohm	50 Hz to 20 kHz	3 ½ in	6 ¾ in	**460J67**

30F328

36C785

6KJC4

TV Remotes

Offer optional screw for battery cover and require 2 AA batteries (not included). Clean Remotes are for use with all brands of hospitality, healthcare, and residential televisions. 1-touch setup, no programming codes needed, easy clean and spillproof design is clinically tested 99% cleaner than other remotes. Brightstar remotes are durable and preset for the leading TV brands and easily programmable for all others.

Description	For Use With	Type	Brand	Mfr. Model	Item No.
Healthcare Clean Remote Control for TVs with Cable Boxes	All Commercial and Residential Televisionss Plus Most Cable Boxes	Clean Room	Clean Remote	CR1R	**30F328**
Healthcare Clean Remote Control for TVs, Large Button	All Commercial and Residential Televisionss	Large Button	Clean Remote	CR2BB	**30F329**
Television Remote Control	All Commercial and Residential Televisionss Plus Most Cable Boxes	Spillproof	Clean Remote	CR3BCB	**35DW86**
Master Remote Control	22P325, 22P326, 22P327, 22P328, 22P329, 22P330, 22P331, 22P332	IR	RCA	36C785	**36C785**
Guest Remote Control	22P325, 22P326, 22P327, 22P328, 22P329, 22P330, 22P331, 22P332	IR	RCA	36C786	**36C786**
Learning Universal Remote	(2) AAA Batteries, Televisions	IR	RCA	38W766	**38W766**
Universal TV Remote	Any Brand Of Televisions	IR	RCA	DT-R08W	**5CFV0**
Universal TV Remote	All Television Brands, GE, Hisense, LG, Magnavox, Panasonic and Vizio, Philips, Preset for Samsung, RCA, Zenith	Hospitality and Healthcare	Brightstar	br100b	**6KJC4**
Universal Clean Remote Control, One Touch Set Up	All Commercial and Residential Televisions	TV Only, Spillproof	Clean Remote	CR1	**6KJC5**
Universal Clean Remote Control with Pay-Per-View Buttons	Any Brand Television and LodgeNet(R), OnCommand(R), Sonifi(R) Systems	Pay-Per-View, Universal	Clean Remote	CR2M	**6LUU4**

5CFV2

5CFV7

Wall Mounts and Cables

Wall Mounts - Heavy-duty commercial-grade LCD wall mounts provide safety and security by requiring tool/bolt removal to take the TV off the wall.

Healthcare TV Jumper Cables - Connect J Model Commercial TVs to existing wall plates.

Description	For Use With	VESA Pattern	H	W	D	Load Cap. (lb.)	Mfr. Model	Item No.
Wall Mounts								
Flat Panel Tilt Mount with Pivot	22 in TV, 26 in TV, 32 in TV, 42 in TV	75x75/100x100/200x200	9"	11½"	3$^{13}/_{16}$"	55 lb	CTM-0200	**5CFV2**
Flat Panel Tilt Mount, Single Arm	22 in TV, 26 in TV, 32 in TV, 42 in TV	75x75/100x100/200x100/200x200	8$^{19}/_{32}$"	8$^{19}/_{32}$"	9$^{19}/_{64}$"	55 lb	CTM-1200	**5CFV3**
Flat Panel Tilt Mount, Double Arm	22 in TV, 26 in TV, 32 in TV, 42 in TV	50x50/75x75/100x100/200x200	12$^{3}/_{32}$"	12"	3½"	55 lb	CTM2200	**5CFV4**
Flat Panel Tilt Mount	22 in TV, 26 in TV, 32 in TV, 42 in TV	50x50/75x75/100x100/200x200	5$^{3}/_{32}$"	5$^{51}/_{64}$"	2$^{3}/_{32}$"	50 lb	JM1000	**5CFV5**
Flat Panel Tilt Mount	22 in TV, 26 in TV, 32 in TV, 42 in TV	50x50/75x75/100x100/200x200	8$^{51}/_{64}$"	8$^{29}/_{32}$"	2¾"	80 lb	JM2000	**5CFV6**
Healthcare TV Jumper Cable								
¼ To 6 Pin	RCA J Model Televisions		—	—	36 in		RCAJ-36-146	**5CFV7**
¼ To 5 Pin	RCA J Model Televisions		—	—	36 in		RCAJ-36-145	**5CFV8**
¼ To ¼	RCA J Model Televisions		—	—	36 in		RCAJ-36-1414	**5CFV9**

**Mounts only;
AV equipment
not included**

Video Display, TV Mounts, and Stands

Video mounting systems are a space-saving alternative to stands, shelving, and consoles. Include mounting hardware. Paramount series models are designed for versatility and easy installation on a wide variety of video display applications. SmartMount series models have premium-grade flat-panel mounts with flat, tilt, pivot, and articulating options for commercial applications. High-end video displays and labor-saving features for the professional installer.

33J830

18C872

3YMA7

3XWA5

3XWA8

33J832

For Use With	Trade Name	VESA Pattern	Tilting Angle	Max. Extension	Load Cap.	Brand	Mfr. Model	Item No.
Wall Mount, Flat								
10" to 29 in Screens	SmartMount	75x75/100x100	—	—	80 lb	Peerless	SF630	**3XVY9**
22" to 40 in Screens	SmartMount	75x75/100x100/200x100/200x200	—	—	115 lb	Peerless	SF632	**3XVZ1**
37" to 85 in Screens	—	—	—	—	200 lb	—	33J841	**33J841**
39 in" to 75 in Screens	SmartMount	600x400	—	—	150 lb	Peerless	PF650	**3YLZ6**
TV Mounts	TV Wall Mount	—	—	0 in	110 lb	STANLEY	TLS-210S	**45PF72**
Wall Mount, Tilt								
10" to 30 in Screens	—	—	7°	—	60 lb	—	33J830	**33J830**
18C872 Screen	—	—	—	—	—	Video Mount Products	DS-BP	**18C874**
32" to 40 in Screens	SmartMount	400x300	—	+15/-5 in	150 lb	Peerless	PT640	**3YMA1**
32" to 50 in Screens	SmartMount	458x405	—	+15/-5 in	150 lb	Peerless	ST640	**1HA95**
39" to 75 in Screens	SmartMount	600x400	—	+15/-5 in	150 lb	Peerless	PT650	**3YMA2**
39" to 75 in Screen TV	SmartMount	600x400	15°	2 ⅝ to 5 ¾ in	175 lb	Peerless	ST650P	**38X964**
39" to 80 in Screens	SmartMount	800x400	—	+15/-5 in	200 lb	Peerless	ST660	**1HA97**
42 in" to 90 in Screens	—	—	-5 to +15° (Lockable 5° Increments)	—	180 lb	Video Mount Products	FP-LDSB	**18C872**
TV Mounts	TV Wall Mount	—	10°	0 in	65 lb	STANLEY	TMS-DS1113T	**45PF69**
Wall Mount, Articulating								
10" to 29 in Screens	SmartMount	75x75/100x100	±90°	+/-35 in	25 lb	Peerless	PA730	**3YMA6**
10" to 32 in Screens	—	—	15°	10 ½ in	45 lb	—	33J828	**33J828**
22" to 40 in Screens	SmartMount	100x100/200x100/200x200	180°	+15/-5 in	80 lb	Peerless	SA740P	**2ZA84**
22" to 40 in Screens	SmartMount	100x100/200x100/200x200	±90°	+15/-5 in	80 lb	Peerless	PA740	**3YMA7**
46" to 90 in Screens	SmartMount	200x100 to 800x400	27½°	+15/-5 in	150 lb	Peerless	SA771PU	**3XWA5**
Ceiling Mount								
13" to 29 in Screens	SmartMount	75x75/100x100	360°	+20/-5 in	40 lb	Peerless	LCC36-C	**3XWA8**
13" to 29 in Screens	SmartMount	75x75/100x100	360°	+20/-5 in	40 lb	Peerless	LCC18C	**2ZA92**
Flat Panel TV Stands								
32" to 75 in Screens	SmartMount	200x200 to 600x400	-2/0/+6°	+5/-2 in	—	Peerless	SR560M	**3XWC6**
Desktop Mount								
10" to 30 in Screens	—	—	15°	10 ½ in	35 lb	—	33J832	**33J832**
TV Enclosure								
22 in" to 32 in Screens	—	100x100/200x100/200x200	+15/-5°	4 25/64 in	125 lb	Peerless	K62232-S-GR01	**45AK73**
42 in" to 55 in Screens	—	400x400	+15/-5°	5 13/32 in	150 lb	Peerless	K64255-S-GR01	**45AK72**

**Mounts only;
AV equipment
not included**

Video Component Mounts and Shelving

33J827

3XWC2

18C873

18C875

18C887

38X962

Description	For Use With	Color	Load Cap. (lb.)	Swivel Angle (°)	Brand	Mfr. Model	Item No.
Projector Mounts and Enclosures							
LCD TV Mount	All Projectors	Black	40 lb	360	—	33J827	**33J827**
Ceiling Projector Mount	Projectors up to 50 lb	Black	50 lb	360	Peerless	PRG-UNV	**3XWC2**
Projector Mount	Multimedia Projectors	Black	25	360	Peerless	PRS-UNV	**38X965**
Speaker Mounts							
Wall and Ceiling Speaker Mount	Bookshelf Style Speakers, Mini Speakers, Satellite Speakers	Black	20 lb	120	Peerless	SPK811	**1HB10**
Wall/Ceiling Speaker Mount	TV Mounts	Black	8 lb	0	STANLEY	ASB-25	**45PF80**
Equipment Shelves							
Component Shelf	A/V Equipment	Black	100 lb	0	Peerless	PS200	**38X963**
Digital Signage Computer/Component Holder							
Computer/Component Holder	Digital Signage Holder	Black	25 lb	—	Video Mount Products	DS-CH	**18C873**
Equipment Rack and Shelves							
Flat Panel Mount	Flat Panel Monitor	Black	50 lb	—	Video Mount Products	ER-LCD1017	**18C871**
19" AV Equipment Rack, 48"H	19 in Rack Equipment & Accessories	Black	400	—	Video Mount Products	ER-148	**18C875**
8 Receiver Rack Shelf	19 in Equipment Racks	Black	50	—	Video Mount Products	ER-8RSA	**18C876**
Vented Rack Shelf, 2-Space	19 in Equipment Racks	Black	50	—	Video Mount Products	ER-S2UV	**18C887**
Vented Rack Shelf, 1-Space	19 in Equipment Racks	Black	50	—	Video Mount Products	ER-S1UV	**18C888**
Suspended Ceiling Mount Accessories							
Suspended Ceiling Plate Includes Support Cables and Hardware	Projector Mount	White	60 lb	0	Peerless	CMJ500R1	**38X962**
Wall Mount Equipment Shelf							
Wall Mount Equipment Shelf	TV Mounts	Black	17 lb	0	STANLEY	AS-100	**45PF78**
Wall Mount Equipment Shelf	TV Mounts	Black	13 lb	0	STANLEY	ADS-200	**45PF79**
Straps							
Universal TV Strap	TV Mounts	Chrome	0 lb	0	STANLEY	ASR-001	**45PF82**
Safety Straps	TV Mounts	Chrome	0 lb	0	STANLEY	ASR-N02	**45PF83**

Scan. Order. Done.
Details on page A1.

23Y699 29WJ53 29WJ56 22NL44

Two Way Business Radios

MOTOROLA SOLUTIONS

All radios include battery, belt clip, single-unit drop-in charging tray, and transformer. For additional accessories, see page 2031.

BUSINESS, RDX SERIES
- FCC License required
- Narrowband compliant
- Durable analog radios provide clear audio quality and expanded frequency capability
- Operate on 89 UHF and 27 VHF business frequencies; up to 213 codes to ensure clear signal
- Allow for programmable frequencies to be added later; high-power models can be programmed to function with repeaters
- Programming Cable 29WJ59 required to program radio on licensed frequencies and to access programmable features, sold separately on page 2024, 2031

BUSINESS, RM SERIES
- FCC License required
- 12.5 kHz narrowband
- Designate 16 prerecorded channels
- Up to 20 floors communication coverage

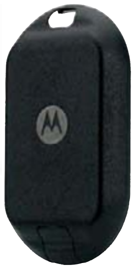
BUSINESS, RMM SERIES
- Operate on license-free VHF MURS frequencies
- Programming Cable 29WJ59 required to access programmable features, sold separately on page 2031

LIGHT-DUTY, CLS SERIES
- FCC License required
- Narrowband compliant
- Operate on 56 UHF business frequencies; up to 121 codes to ensure clear signal
- Lightweight and compact

Band Type	Output Watts	Inside Range (sq. ft.)	No. of Channels	Frequency	Selectable Frequencies	Analog	Digital Codes	Battery Type	Battery Life	Display Type	Std.	IP Rating	Programmable/ Repeater Capable	Mfr. Model	Item No.
EVX-S24 Series															
UHF	5 W	400,000 sq ft	256	403 to 470 MHz	No	38	121	Li-Ion	12 hr	LCD	MIL-STD-810 C, D, F, G	IP67	—	EVX-S24-G6-3 BLACK	**463W20**
UHF	3 W	400,000 sq ft	256	403 to 470 MHz	No	38	121	Li-Ion	12 hr	LCD	MIL-STD-810 C, D, F, G	IP67	—	EVX-S24-G6-3 YELLOW	**463W21**
Business, RDX Series															
UHF	4 W	350,000 sq ft	10	438 to 470 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr	No Display	MIL-STD-810 C, D, E, F	IP55	Yes	RDU4100	**23Y699**
UHF	4 W	350,000 sq ft	16	438 to 470 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr	LCD	MIL-STD-810 C, D, E, F	IP55	Yes	RDU4160D	**23Y701**
VHF	5 W	300,000 sq ft	10	146 to 174 MHz	Yes	39+ Programmable	84+ Programmable	Li-Ion	18 hr	No Display	MIL-STD-810 C, D, E, F	IP55	Yes	RDV5100	**23Y698**
Business, RM Series															
UHF	2 W	250,000 sq ft	4	450 to 470 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr	No Display	MIL-STD-810 C, D, E, F, G	IP54/55	No	RMU2040	**29WJ53**
UHF	2 W	250,000 sq ft	8	450 to 470 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr	No Display	MIL-STD-810 C, D, E, F, G	IP54/55	No	RMU2080	**29WJ54**
UHF	2 W	250,000 sq ft	8	450 to 470 MHz	99	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr	LCD	MIL-STD-810 C, D, E, F, G	IP54/55	No	RMU2080D	**29WJ55**
Business, RMM Series															
VHF	2 W	220,000 sq ft	8	150 to 160 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr	No Display	MIL-STD-810 C, D, E, F, G	IP54/55	No	RMV2080	**29WJ56**
VHF	2 W	220,000 sq ft	5	151 to 155 MHz	Yes	39+ 6 Programmable	84+ Programmable	Li-Ion	12 to 15 hr	No Display	MIL-STD-810 C, D, E, F, G	IP54/55	No	RMM2050	**29WJ57**
Light-Duty, CLS Series															
UHF	1 W	200,000 sq ft	1	450 to 470 MHz	56	38	83	Li-Ion	12.6 hr	LCD	MIL-STD-810 F	—	No	CLS1110	**22NL44**
UHF	1 W	200,000 sq ft	4	450 to 470 MHz	56	38	83	Li-Ion	12.6 hr	LCD	MIL-STD-810 F	—	No	CLS1410	**22NL45**

10K218

29WJ59



15X822

15X823

15X825

10K217

MOTOROLA SOLUTIONS

Two Way Radio Accessories

Description	For Use With	Mfr. Model	Item No.
Audio Accessories			
Earpiece, Nonadjustable with PTT	Motorola CLP Series Radios	HKLN4455F	**10K218**
CPS Programming Cable	Mfr. No. RMM2050, RMU2040, RMU2043, RMU2080, RMU2080D, RMV2080	HKKN4027A	**29WJ59**
Cloning Cable Kit	Mfr. No. RMM2050, RMU2040, RMU2043, RMU2080, RMU2080D, RMV2080	HKKN4028A	**29WJ60**
Batteries and Covers			
High-Capacity Battery	5EDA8, 5EDA9	HKLN4013ASP01	**5ECZ9**
High-Capacity Battery Door Kit	15X820 and 15X821 Motorola CLP Series Radios	HKLN4440B	**15X822**
Standard-Capacity Battery	5EDA8, 5EDA9	HKNN4014B	**5ECZ8**
Chargers			
Multi Unit Charger	15X820 and 15X821 Motorola CLP Series Radios	HKPN4007D	**15X823**
Carry Accessories			
Holster	15X820 and 15X821 Motorola CLP Series Radios	HKLN4438B	**15X825**
Magnetic Holster	Motorola CLP Radio Series	HKLN4433A	**10K217**
Repeater			
	2HNA, 2HNA8	RPU2160BRAAA	**4TXP2**

45EC20

MOTOROLA SOLUTIONS

Digital Two Way Business Radios

- Narrowband compliant
- 900 MHz ISM FHSS
- Li-ion battery provides up to 14 hr. of service
- 4.2 oz. with battery

1W radios feature programming software that provides easy configuration of features, frequencies, and codes.

Designed with a cloning feature that easily transfers information to additional radios. Polycarbonate housing contains built-in antimicrobial properties that inhibit the growth of bacteria and mold on radio surfaces. 45EC20 has 2 channels, and 45EC21 has 6 channels.

No. of Channels	Band Type	Frequency	Battery Type	Display Type	Mfr. Model	Item No.
2	ISM	900 MHz	Li-Ion	No Display	DLR1020	**45EC20**
6					DLR1060	**45EC21**

46AX76

MIDLAND

Biztalk Radio

Designed for the rigors of the jobsite, this system fits the needs for any size business, with an emphasis on simplicity and cost effectiveness. Easy-to-program and ready-to-use, right out of the box.

Band Type	Output Watts	Battery Type	Mfr. Model	Item No.
Portable Two Way Radio				
UHF	2 W	Li-Ion	BR200	**46AX76**

Description	For Use With	Mfr. Model	Item No.
Accessories			
Cable	Mfr. BRB20	BA1	**46AX77**
Over-the-Ear Headset	Mfr. BR200	BA2	**46AX78**
Tactical Headset	Mfr. BR200	BA3	**46AX79**
Microphone - Shoulder	Mfr. BR200	BA4	**46AX80**
6 Hr. 1800 mAh battery Battery Pack	Mfr. BR200	BRB200	**46AX81**
Multi Unit Charger	Mfr. BR200	BGC200	**46AX82**

56CY53

RITRON

Handheld Portable Two Way Radios

Ideal for basic job site applications to in-plant repeater systems and selective signaling applications. Certified to Mil-Standard 810F and IP65 rating. Radios include audio accessory jack, 1800mAH Li-Ion battery, flex antenna, spring-action belt clip, 3-hour charging stand, 110-220VAC adaptor, and 1 year warranty. For audio accessories, see Grainger.com

No. of Channels	Band Type	Selectable Frequencies	License Required	Display Type	Mfr. Model	Item No.
20	VHF MURS	5	No	LCD	NT-152M	**56CY54**
255	VHF	29	Yes		NT-174	**56CY52**
	UHF	107			NT470	**56CY53**

54HD01

54GY87

MOTOROLA SOLUTIONS

MOTOTRBO Mobile Two Way Radios

Radios can operate in digital and analog modes concurrently so they fit seamlessly into your existing communication system, allowing you to migrate to digital at your own pace. Rated IP54 (splashproof, virtually dustproof), so they can be used even in harsh environments. Radios include microphone, mounting bracket, and power cable.

Digital radios offer a clear, high-contrast alphanumeric display. View information such as caller ID, channel number and contacts. They are programmed with the basic privacy function to keep conversations more secure and have transmit interrupt capability (decode only) to enable a user to deliver critical communication exactly when and where it's needed. Offer 121 digital codes.

Analog models have a simpler numeric display and fewer channels. All radios are programmable with external channel select, waterproof, and have 38 analog codes.

Features	No. of Channels	Band Type	Frequency	Output Watts	Mfr. Model	Item No.
CM200d						
Digital Conventional, Basic Privacy, Dual Capacity Direct Mode, Dual Priority Scan, Optional for Analog Models, Remote Monitor, Standard for Digital Models, Transmit Interrupt	16	VHF	136 to 174 MHz	25 W	CM200d AAM01JNC9JA1	**54HD01**
	16	VHF	136 to 174 MHz	45 W	CM200d AAM01JQC9JA1	**54HD02**
	16	UHF	403 to 470 MHz	25 W	CM200d AAM01QNC9JA1	**54HD03**
	16	UHF	403 to 470 MHz	40 W	CM200d AAM01QPC9JA1	**54HD04**
Analog, Audio Indicator Tones, Busy Channel Lockout, Quick Call II Call Alert/ Selective Call, Time-Out Timer, VOX	16	VHF	136 to 174 MHz	25 W	CM200d AAM01JNC9JC1	**54HC96**
	16	VHF	136 to 174 MHz	45 W	CM200d AAM01JQC9JC1	**54HC97**
Analog, Audio Indicator Tones, Busy Channel Lockout, Quick Call II™ Call Alert/ Selective Call, Time-Out Timer, VOX	16	UHF	403 to 470 MHz	25 W	CM200d AAM01QNC9JC1	**54HC98**
Analog, Audio Indicator Tones, Busy Channel Lockout, Quick Call II Call Alert/ Selective Call, Time-Out Timer, VOX	16	UHF	403 to 470 MHz	40 W	CM200d AAM01QPC9JC1	**54HC99**
CM300d						
Digital Conventional, Basic Privacy, Dual Capacity Direct Mode, Dual Priority Scan, Optional for Analog Models, Remote Monitor, Standard for Digital Models, Transmit Interrupt	99	VHF	136 to 174 MHz	25 W	CM300d AAM01JNH9JA1	**54GY91**
	99	VHF	136 to 174 MHz	45 W	CM300d AAM01JQH9JA1	**54GY92**
	99	UHF	403 to 470 MHz	25 W	CM300d AAM01QNH9JA1	**54GY93**
	99	UHF	403 to 470 MHz	40 W	CM300d AAM01QPH9JA1	**54GY94**
Analog, Audio Indicator Tones, Busy Channel Lockout, Quick Call II Call Alert/ Selective Call, Time-Out Timer, VOX	99	VHF	136 to 174 MHz	25 W	CM300d AAM01JNH9JC1	**54GY87**
	99	VHF	136 to 174 MHz	45 W	CM300d AAM01JQH9JC1	**54GY88**
	99	UHF	403 to 470 MHz	25 W	CM300d AAM01QNH9JC1	**54GY89**
	99	UHF	403 to 470 MHz	40 W	CM300d AAM01QPH9JC1	**54GY90**

Scan. Order. Done.
Details on page A1.

EVX-S24 Series
463W20

MAG ONE BPR 40 Series
45CA54

CP185 Series
45CA71

CP200D Series
45CA56

SL300 Series
54HC94

MOTOROLA SOLUTIONS

Commercial Portable Two Way Radios

- Li-Ion battery type

All include an antenna, battery, belt clip and charger.

EVX-S24—Programmable 12.5/20/25 kHz channel spacing. High contrast display. Have multiple soft keys for features such as encryption mode, which scrambles the audio signal to prevent eavesdropping. Priority Scan mode allows listening to multiple channels at once with precedence on the main channel. Units come with 2-tone encode and decode, which allows sending/receiving of 2-tone pages. Include programming, battery, belt clip, whip antenna, and side cover.

CP100D—Offer analog/digital voice communications and dual-capacity direct mode. Have transmit interrupt capability (decode only) to enable a user to deliver critical communication. Convenient pre-programmed text messaging is available. Also include a battery indicator, brightness (display only), channel scan, high/low power, keypad lock (display only), monitor/permanent monitor function, nuisance channel delete, one touch access, repeater/talkaround feature, tones & alerts on/off, voice announcement, voice activated (VOX) on/off.

MAG ONE BPR 40—Small and lightweight design is only 4.21 in high. Weighs just 9.5 oz with Li-ion battery and 11.08 oz with NiMH battery. Squelch levels help minimize interference from undesired weak signals and boost weak signals. Two programmable buttons give easy access to favorite features, program up to four settings. Include a radio status and battery indicator, Tricolor LED, large textured Push-to-Talk button, single priority scan, and large rotary selector. Rugged, die-cast chassis and polycarbonate housing provides added protection.

CP185—Enhance your privacy with built-in simple voice scrambling and utilize the Remote Inhibit feature, using MDC1200 Signaling, for deactivation of lost or stolen radios. Compact and lightweight to fit in the palm of your hand. Voice activated (VOX) ready for hands-free communication lets users focus on the job at hand improving safety and efficiency. Increase your coverage with repeater capability or use the Talkaround feature, which enables communication even when a repeater is not being used. The programmable buttons enable easy, one-touch access for up to 10 user-selected features.

CP200D and SL300—Powerful, versatile radios combine reliable 2-way radio functionality. Push-to-talk button delivers crisp, clear audio, penetrating even in extremely noisy environments. Essential feature includes the ability to interrupt a transmission to prioritize emergency communications and selectable frequencies. Deliver increased coverage while maintaining a 40% longer battery life. 54HC92 to 54HC95 feature radio check, remote monitor, scan/dual priority, timer, and voice announcement.

No. of Channels	Band Type	Frequency	Output Watts	Display Type	Mfr. Model	Item No.
EVX-S24 Series						
256	UHF	403 to 470 MHz	5 W	LCD	EVX-S24-G6-3 BLACK	**463W20**
256	UHF	403 to 470 MHz	3 W	LCD	EVX-S24-G6-3 YELLOW	**463W21**
CP100D Series						
16	VHF	136 to 174 MHz	5 W	No Display	AAH87JDC9JA2AN	**61CU06**
16	UHF	403 to 480 MHz	4 W	No Display	AAH87YDC9JA2AN	**61CU07**
160	VHF	136 to 174 MHz	5 W	LCD	AAH87JDH9JA2AN	**61CU08**
160	UHF	403 to 480 MHz	4 W	LCD	AAH87YDH9JA2AN	**61CU09**
MAG ONE BPR 40 Series						
8	VHF	150 to 174 MHz	5 W	No Display	BPR40 AAH84KDS8AA1	**45CA62**
8	UHF	450 to 470 MHz	4 W	No Display	BPR40 AAH84RCS8AA1	**45CA54**
16	VHF	150 to 174 MHz	5 W	No Display	BPR40 AAH84KDJ8AA1	**45CA59**
16	UHF	450 to 470 MHz	4 W	No Display	BPR40 AAH84RCJ8AA1	**45CA73**
CP185 Series						
16	VHF	136 to 174 MHz	5 W	Backlit LCD	CP185 AAH03KEF8AA7	**45CA55**
16	UHF	403 to 470 MHz	4 W	LCD	CP185 AAH03RDF8AA7	**45CA71**
CP200D Series						
16	VHF	136 to 174 MHz	5 W	No Display	CP200D AAH01JDC9JA2	**45CA58**
16	VHF	136 to 174 MHz	5 W	No Display	CP200D AAH01JDC9JC2	**45CA67**
16	UHF	403 to 470 MHz	4 W	No Display	CP200D AAH01QDC9JA2	**45CA56**
16	UHF	403 to 470 MHz	4 W	No Display	CP200D AAH01QDC9JC2	**45CA72**
SL300 Series						
2	VHF	136 to 174 MHz	3 W	LED	SL300 AAH88JCC9JA2	**54HC92**
2	UHF	403 to 470 MHz	3 W	LED	SL300 AAH88QCC9JA2	**54HC94**
99	VHF	136 to 174 MHz	3 W	LED	SL300 AAH88JCP9JA2	**54HC93**
99	UHF	403 to 470 MHz	3 W	LED	SL300 AAH88QCPC9JA2	**54HC95**

45MK40

40XA12

481Z48

55KD84

ICOM STANDARD HORIZON

Mobile Two Way General, Aviation and Marine Radios

These two way radios are rugged and durable with specific models for aviation, marine and commercial users.

Description	No. of Channels	Frequency	Battery Life	Output Watts	Battery Type	Band Type	Mfr. Model	Brand	Item No.
Aviation									
Mobile- Panel Mount	20	118 to 136.98 MHz	—	8 W	—	VHF	A220	Icom	**45MK40**
Mobile - Bracket Mount	20	118 to 136.98 MHz	—	8 W	—	VHF	A220M	Icom	**45MK41**
Mobile - Desktop	20	118 to 136.98 MHz	—	8 W	—	VHF	A220B	Icom	**45MK42**
Portable - Handheld	200	118 to 137 MHz	17 hr	6 W	Li-Ion	VHF	A16 41 USA	Icom	**55AA12**
Portable - Handheld	300	108.000 to 136.992 MHz	10 hr	6 W	2,350 mAh Li-Ion	VHF	A25N 46 USA	Icom	**460R94**
General									
Portable - Handheld	16	136 to 174 MHz	20 hr	5 W	Li-Ion	VHF	F3001 51 RC USA	Icom	**40XA11**
Portable - Handheld	16	136 to 174 MHz	14 hr	5 W	Li-Ion	VHF	F1000 82 USA	Icom	**54ZU80**
Portable - Handheld	16	450 to 512 MHz	14 hr	4 W	Li-Ion	UHF	F2000 88 USA	Icom	**54ZU81**
Portable - Handheld	16	450 to 512 MHz	20 hr	4 W	Li-Ion	UHF	F4001 81 RC	Icom	**40XA12**
Portable - Handheld	100	136 to 174 MHz	14 hr	5 W	Li-Ion	VHF	M85	Icom	**492F62**
Marine									
Portable - Handheld	7	156.300 to 156.875 MHz	—	2 W	NiCad	VHF	GM1600 21K	Icom	**40XA51**
Floating Ultracompact with Strobe - Handheld	10	156.025 to 157.425 MHz	10 hr	5 W	Li-Ion	VHF	HX300	Standard Horizon	**18F511**
Submersible with LMR Channels - Handheld	40	156 to 163.275 MHz (Marine Band); 137 MHz - 174 MHz (LMR)	17 hr	5 W	Li-Ion	VHF	HX400	Standard Horizon	**18F512**
Submersible, Intrinsically Safe - Handheld	40	156 to 163.275 MHz (Marine Band); 137 MHz - 174 MHz (LMR)	20 hr	5 W	Li-Ion	VHF	HX400IS	Standard Horizon	**18F513**
Portable - Handheld	88	156.025 to 157.425 MHz, 156.025 to 163.275 MHz	11 hr	5 W	1,500 mAh Li-Ion	VHF	M25 GRAY 11 USA	Icom	**48FT60**
Submersible - Handheld	88	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	18 hr	6 W	Li-Ion	VHF	M73 61 USA	Icom	**40XA17**
Submersible - Handheld	88	RX 156.025 to 157.425 MHz, TX 156.025 to 163.275 MHz	18 hr	6 W	Li-Ion	VHF	M73 PLUS 71 USA	Icom	**40XA22**
Portable - Handheld	1,065	134 to 174 MHz, 156.025 to 163.275 MHz	10 hr	5 W	1,600 mAh Li-Ion	VHF	HX380	Standard Horizon	**481Z49**
Mobile - Desktop	1,065	156 to 163 MHz	—	25 W	—	VHF	GX6000	Standard Horizon	**481Z52**
Portable - Handheld	1,065	156.025 to 157.425 MHz, 156.050 to 163.275 MHz	10 hr	6 W	1,800 mAh Li-Ion	VHF	HX210	Standard Horizon	**481Z48**
Portable - Handheld	1,065	156.025 to 161.600 MHz, 156.050 to 163.275 MHz	10 hr	6 W	1,850 mAh Li-Polymer	VHF	HX40	Standard Horizon	**481Z51**
Portable - Handheld	1,065	406.100 to 470.000 MHz	10 hr	5 W	2,300 mAh Li-Ion	UHF	HX407	Standard Horizon	**481Z50**
Two Way									
Portable - Handheld	128	450 to 512 MHz	3 yr	4 W	Li-Ion	UHF	F2000S 89 USA	Icom America	**55KD84**

31FM85

45CE59

MIDLAND Uniden® MOTOROLA SOLUTIONS Cobra®

Consumer GMRS Two Way Radios

- All radios sold in pairs

These palm-sized walkie-talkies slide into a jacket pocket or clip onto your belt or backpack. They are ideal for use on campgrounds, playgrounds, ski slopes, hiking trails, and boats. Additional features: **49EG65** has an emergency alert, **49VZ83** has an LED flashlight, and **33UG10** offers direct call. For information on what all models include, go to Grainger.com.

Output Watts	Outdoor Range (Miles)	Battery Type	Color	Privacy Codes	NOAA Channels	Waterproof	Submersible Floating	Brand	Mfr. Model	Item No.
Consumer 2-Way Radios										
2 W	24 mi	NiMH	Black			●		Midland	LXT500VP3	**31FM85**
1 to 5	—	Li-Ion	Black		●		●	Uniden	MHS75	**48UM06**
2 W	35 mi	NiMH or (3) AA	Black, Green		●	●	●	Motorola	T465	**45CE59**
0.5 W	—	NiMH or Alkaline	Gray	●		●		Motorola	T200TP	**49EG61**
0.5 W	—	NiMH or Alkaline	Red, White	●		●		Motorola	T260	**49EG62**
0.5 W	—	NiMH or Alkaline	Red, White	●		●		Motorola	T260TP	**49EG63**
0.5 W	—	NiMH or Alkaline	Green	●	●	●	●	Motorola	T605	**49EG65**
0.5 W	—	NiMH or Alkaline	Gray	●				Motorola	T200	**49EG60**
0.5 W	—	Alkaline	Blue	●				Motorola	T100	**49EG58**
1.5 W	38 mi	Rechargeable NiMH	Black	●	●	●		Midland	T71VP3	**49VZ80**
1.5 W	38 mi	Rechargeable NiMH	Black	●				Midland	T77VP5	**49VZ82**
0.5 W	28 mi	Rechargeable NiMH	Black, Orange	●		●		Midland	T51VP3	**49VZ78**
0.5 W	20 mi	(3) AAA (Not Included)	Black	●	●	●		Midland	T10	**49VZ76**
0.5 W	26 mi	Rechargeable NiMH	Black, Red	●	●	●		Midland	T31VP	**49VZ77**
0.5 W	26 mi	Rechargeable NiMH	Black, Red	●	●	●		Midland	EX37VP	**49VZ83**
0.5 W	16 mi	AAA NiMH Rechargeable	Black					Cobra	ACXT145	**33UG10**
1 W	23 mi	AA NiMH Rechargeable	Black	●	●			Cobra	ACXT345	**33UG15**

49VZ78

33UG10

Description	For Use With	Brand	Item No.
Accessories			
Remote Speaker Microphone	45CE59, 49EG61, 49EG62, 49EG63, 49EG65	Motorola	**4PKN8**
Headset with Swivel Boom Microphone	FRS/GMRS Radios	Motorola	**4PKN9**

2EUJ2

4WEL4

4WEK8

4WEG9

2EUJ1

4WEK1

MOTOROLA SOLUTIONS

Business and Mission-Critical Tier Radio Accessories

Description	Fits HT750 HT1250 HT1550 MTX850 MTX950	Fits HT1000	Fits MTX8250 MTX9250	Fits EX500 EX600	Fits PR860	Fits PR1500 XTS1500 XTS2500 XTS3000 XTS3500 XTS5000	Fits MT1500 MT2000 MTS2000	Fits XPR Series	Fits APX Series	Mfr. Model	Item No.
Audio Accessories											
Remote Speaker Microphone	●									PMMN4021A	**2EUJ2**
Remote Speaker Microphone				●						PMMN4022A	**2EUJ5**
Windporting Remote Speaker Microphone, IP56								●		PMMN4040A	**4WEL7**
Windporting Remote Speaker Microphone with Earjack		●				●	●			PMMN4051B	**4WEK3**
Windporting Remote Speaker Microphone, IP57		●				●	●			PMMN4038A	**4WEK4**
IMPRES Windporting Remote Speaker Microphone with Earjack								●		PMMN4025A	**4WEL6**
Temple Transducer Headset		●				●	●			RMN4049A	**4WEL4**
Temple Transducer Headset								●		PMLN5101A	**4WEL8**
Earpiece with Microphone and Push-to-Talk Combined, (2-Wire) Black				*						BDN6729A	**4WEK7**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black		●		*		●	●			RLN5312B	**4WEK8**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black	●		●		●					RLN5315A	**4WEK9**
Earpiece with Microphone and Push-to-Talk Combined, Translucent Tube, (2 Wire) Black								●		PMLN6129A	**4WEN1**
Extra-Loud Receive-Only Earpiece with Standard Earphone, (1-Wire) Black		●		*		●	●			BDN6727A	**4WEK6**
3.5mm Jack Adapter with Quick Disconnect Latch		●				●	●			BDN6676D	**4WEL2**
Audio Adapter				●						PMLN4455B	**4WEL3**
Speaker/Microphone, IMPRES, APX Series									●	HMN4101B	**31MG21**
Speaker Microphone, ASTRO 25 Series						●				HMN4112A	**31MG07**
Speaker Microphone, IMPRES, APX Series									●	HMN4103B	**31MG14**
Speaker Microphone, IMPRES								●		PMMN4048B	**31MG24**
Speaker Microphone, APX Series									●	PMMN4060B	**31MG36**
Bluetooth Accessory Kit								●		RLN6500A	**31MG50**
Bluetooth Adapter								●		PMLN5712B	**31MG51**
Surveillance Kit						●				NTN1736A	**31MG05**
Speaker Microphone, IMPRES, MotoTRBO								●		PMMN4050A	**31MG67**
Speaker Microphone, Remote	●		●		●					PMMN4039A	**31MG78**
Earbud, Remote								●	●	RLN4941A	**31MG83**

Description	Fits HT750 HT1250 HT1550 MTX850 MTX950	Fits MTX8250 MTX9250 PR860	Fits EX500 EX600	Fits EX560	Fits PR1500 MT1500 XTS1500 XTS2500	Fits XTS3000 XTS3500 XTS5000	Fits XPR	Fits APX	Mfr. Model	Item No.
Batteries										
1500 mAh Battery, NiMH	●								HNN9008AR	**2EUH7**
1500 mAh Battery, Li-Ion	●								HNN9013DR	**2EUH9**
1800 mAh IMPRES Battery, NiMH	●								HNN4001A	**4WEG9**
2000 mAh IMPRES Battery, Li-Ion	●								HNN4003BR	**4WEH2**
1900 mAh Battery, NiMH	●								HNN9009AR	**4WEH3**
1320 mAh LBattery, Li-Ion			●						JMNN4024CR	**2EUJ3**
1400 mAh Battery, Li-Ion, RUG			●						PMNN4074AR	**4WEH4**
2100 mAh Battery, NiMH					●				NTN9858C	**4WEG3**
2750 mAh Battery, Li-Ion						●			NTN9862D	**4WEG2**
Chargers and Charging Adapters										
120V Single Unit Rapid Rate Charger	●		●	●					PMLN5197A	**2EUJ1**
Charger	●	●							WPLN4182A	**4WEJ7**
120V IMPRES Single Unit Charger							●		PNPN4137A	**4WEK1**
Batteries										
2300mAh Battery, Lithium Ion								●	PMNN4424AR	**31MG57**
1900mAh Battery, Lithium Ion								●	NNTN8128C	**31MG64**
2150mAh Battery, Lithium Ion							●		PMNN4544A	**31MG72**

**** Requires 4WEL3 Audio Adapter.***

2HNG7

2HNG4

5EDD3

4WEN2

5EDD1

5EDD6

2HNE2

2HNG1

2HNK4

2HNH2

2HNK7

MOTOROLA SOLUTIONS

Commercial Tier Radio Accessories

Description	Fits CP and PR400	Fits CT	Fits SP50	Fits VL130 and CP125	Fits GP350	Fits GP300	Fits GTX	Fits P1225	Fits BPR40	Mfr. Model	Item No.
Audio Accessories											
Remote Speaker Microphone with Earjack	●	●	●	●				●		PMMN4013A	**2HNG7**
Remote Speaker Microphone									●	PMMN4008A	**2HNG4**
Remote Speaker Microphone, FM	●									PMMN4029A	**5EDC7**
Lightweight Headset with In-Line PTT, FM	●							●		RMN4016B	**5EDD3**
Ear Loop Earpiece	●	●	●	●				●		HKLN4424A	**4WEN2**
Surveillance Kit	●	●	●			●		●		RLN5318A	**4WEL1**
Earpiece with Microphone and PTT Combined, (2 Wire) Beige, FM	●									HMN9754D	**5EDD0**
Earpiece with Microphone and PTT Combined, (2 Wire) Black, FM	●									RLN4895A	**5EDD1**
D-Ring Style Earpiece with PTT Mic, FM	●									PMLN5001A	**5EDD5**
Temple Transducer, FM	●									PMLN5011A	**5EDD6**
Lightweight Temple Transducer	●									PMLN5003A	**5EDD7**
Accessory Retainer Kit	●									RLN5500A	**5EDC5**
Batteries											
NiMH Rechargeable 1400 mAh Battery	●									NNTN4851A	**2HND8**
Li-Ion 1500mAh Battery									●	PMNN4075AR	**31MG91**
Li-Ion Rechargeable 2250 mAh Battery	●									NNTN4497DR	**2HNE2**
Li-Ion Slim Rechargeable 1600 mAh Battery	●									NNTN4970A	**2HNF7**
NiMH Rechargeable 1200 mAh Battery									●	PMNN4071AR	**2HNG1**
Chargers											
Desktop Single Unit Charger	●									PMPN4173A	**2HNK4**
Desktop Single Unit Charger			●							HTN9013B	**2HNK2**
Desktop Single Unit Charger				●						PMTN4087A	**2HNK8**
Desktop Single Unit Charger					●	●	●	●		HTN9042A	**2HNK6**
Desktop Single Unit Charger									●	PMLN4738BR	**2HNK5**
Multi Unit Charger	●									PMLN6588A	**31MG03**
Carry Accessories											
Carry Case with Swivel	●									RLN5385B	**2HNH2**
Leather Carry Case									●	PMLN4742A	**2HNH5**
Belt Clip	●									HLN8255B	**4WEN4**
Spring Action 1.5" Belt Clip				●						HLN9844A	**2HNK7**
Antennas											
UHF Flexible Whip Antenna	●									PMAE4016A	**5EDC6**

481R57

481R69

481R87

481R92

481T13

MOTOROLA SOLUTIONS

Business Portable Two Way Radio Accessories

Description	FITS SERIES VX-261 VX-264	VX-450	EVX-524	EVX-261	Mfr. Model	Item No.
Alkaline Battery Cases						
400 to 420 MHz Antenna		●			AAH72X501 ATU-16B	**481R57**
400 to 430 MHz Antenna			●		AAM23X501 ATU-20AS	**481R61**
400 to 430 MHz Antenna	●		●	●	AAE23X501 ATU-6A	**481R69**
450 to 485 MHz Antenna	●			●	AAE20X503 ATU-6DS	**481R70**
420 to 450 MHz Antenna			●	●	AAE23X506 ATU-6B	**481R71**
440 to 470 MHz Antenna			●	●	AAE23X502 ATU-6C	**481R72**
490 to 512 MHz Antenna	●			●	AAE23X504 ATU-6F	**481R74**
136 to 150 MHz Antenna		●			AAH73X502 ATV-16A	**481R75**
150 to 163 MHz Antenna	●				AAE19X502 ATV-6B	**481R81**
VHF Antenna	●			●	AAG42X501 ATV-6XL	**481R83**
Batteries						
Battery Pack - 1,380 mAh, Lithium-Ion	●	●		●	AAJ67X501 FNB-V133LI-UNI	**481R87**
Battery Pack - 2,300 mAh, Lithium-Ion	●	●		●	AAJ68X501 FNB-V134LI-UNI	**481R88**
Battery Pack - 2,300 mAh, Lithium-Ion		●			AAK66X501 FNB-V134LIIS	**481R89**
Battery Pack - 2,300 mAh, Lithium-Ion			●		PMNN4468A	**481R91**
Carry Cases						
Radio Belt Clip Belt Clip			●		AAM18X501 CLIP-27	**481R92**
Radio Belt Clip Belt Clip	●	●		●	AAH12X501 CLIP-20	**481R93**
Chargers						
Charger	●	●		●	XUAAJ72X511 VAC-UNI	**481T13**
Charger Tray			●		AAM19X501 CD-65	**481T15**
Headsets & Surveillance						
Earpiece Microphone			●		AAM21X501 MH-89A4B	**481T19**
Headset	●	●		●	AAL40X501 VH-150A	**481T20**
Speaker Microphones						
Submersible Remote Speaker Microphone	●	●		●	AAE46X507 MH-66A4B	**481T29**
Compact Remote Speaker Microphone			●		AAM24X501 MH-90A4B	**481T30**
Compact Remote Speaker Microphone	●	●		●	AAF52X501 MH-360S	**481T32**
Portable Service Tools						
USB Cable	●	●		●	AAD68X501 CT-106	**481T35**
Micro USB Cable			●		CB000262A01	**481T37**

481T45

481T46

481T47

481T49

MOTOROLA SOLUTIONS

Business Mobile Two Way Radio Accessories

Description	FITS SERIES VX-2100 VHF	VX-2100 UHF	VX-2200 VHF	VX-2200 UHF	Brand	Mfr. Model	Item No.
Mobile Service Tools							
USB Cable	●	●	●	●	Motorola	AAJ23X501 FIF-12	**481T36**
Interface for FIF-12 Cable	●	●	●	●	Motorola	AAD66X502 CT-104A	**481T38**
Programming/Cloning Cable	●	●	●	●	Motorola	T9101411 CT-4	**481T42**
Tuning Interface	●	●	●	●	Motorola	AAJ06X001 FRB-6	**481T43**
Mobile Microphones							
Desktop	●	●	●	●	Motorola	AAF13X501 MD-12A8J	**481T45**
Palm	●	●	●	●	Motorola	AAE60X502 MH-67A8J	**481T46**
DTMF	●	●	●	●	Motorola	AAG22X501 MH-75A8J	**481T47**
Mobile Speakers							
External	●	●	●	●	Motorola	A09260503 MLS-100	**481T48**
External Waterproof	●	●	●	●	Motorola	AAD49X501 MLS-200	**481T49**
Mobile Radio Antenna Kits							
¼ Wave VHF Permanent Mount Antenna Kit	●		●		Century VII	RAS-1000K	**4PHG6**
¼ Wave UHF Permanent Mount Antenna Kit		●		●	Century VII	RAS-1010K	**4PHG7**
L Bracket for Permanent Mount Antenna Kit	●	●	●	●	Century VII	RAS-1060A	**4PHH3**

Temple Transducer
2EUH1

Speaker Microphone
45EC28

Ultra-High Capacity Li-ion Battery
2HNC2

Spring Action Belt Clip
2HNB9

Hard Leather Carrying Case
2HNB1

Replacement Swivel Belt Holster
3AY84

UHF Stubby Antenna
2HNC6

MOTOROLA SOLUTIONS

Two Way Business Radio Accessories

Audio Accessories—Talk and listen to 2-way radio without removing it from case or belt. Temple Transducer 2EUH1 is ideal for high noise environments. Can receive audio via bone conduction while wearing hearing protection. Unit comes with microphone and In-line Push-to-Talk button.

Remote Speaker Microphone 45EC28 allows communication without removing radio from belt.

Batteries and Chargers—Genuine Motorola batteries and chargers provide optimum performance and help ensure clear, reliable communication.

Carry Accessories—Designed to fit radios with a battery and permit audio to be heard clearly. Carrying cases are premium-grade leather and help protect radios from daily abuse.

Programming Accessories—Allow an interface with customer programming software to easily set up and maintain a radio fleet.

	FITS SERIES							
Description	RDX Series	DTR Series	CLS Series	Previous XTN Series	Previous AX Series	Previous M Series	Mfr. Model	Item No.
Audio Accessories								
Temple Transducer	●	●	●	●	●	●	RMN5114	**2EUH1**
Speaker Microphone	●	●	●	●	●	●	HKLN4606A	**45EC28**
Earbud w/Clip Microphone & Push-to-Talk	●	●	●	●	●	●	53866A	**6B525**
Batteries								
Ultra-High Capacity Li-Ion Battery	●						RLN6308C	**2HNC2**
Standard Capacity Li-Ion Battery	●						RLN6351C	**2HND5**
NiMH Rechargeable Battery				●			NNTN4190A	**1WC75**
NiMH 1500 Mah Battery					●		PMNN4063BR	**4NA32**
Chargers								
Single Unit Charger			●				56553	**31MG31**
Multiunit Charger	●						RLN6309A	**2HNC4**
Multiunit Charger		●					53960	**1PA78**
Multi Unit Charger			●				56531	**3AY85**
Rapid Charger Kit	●						RLN6304B	**2HNB5**
Carry Accessories								
Hard Leather Carrying Case	●						RLN6302A	**2HNB1**
Replacement Swivel Belt Holster		●					53961	**1PA77**
Replacement Swivel Belt Holster			●				HCLN4013C	**3AY84**
Spring Action Belt Clip	●						RLN6307A	**2HNB9**
Spring Action Belt Clip					●		HLN9714A	**4NA31**
Antennas								
UHF Stubby Antenna 450 to 470 MHz	●						RAN4033A	**2HNC6**
UHF Whip Antenna for Nos. 2HNA7 and 2HNA8 Only	●						RAN4031A	**2EUH4**
VHF Helical Antenna for No. 2HNA6 Only	●						RAN4041A	**2EUH3**
Digital Replacement Antenna		●					8505241U06	**10K213**
Digital Replacement Whip Antenna		●					8505241U04	**10K214**
Audio Accessories								
CPS Programming Cable	●						HKKN4027A	**29WJ59**
Programming Accessories								
CPS Programming Cable		●					0105950U15	**2EUH6**

4NPD3

4KYD6

4KYF5

4NPD7

4KYE5

4KYE1

KENWOOD

ProTalk Two Way Business Radio Accessories

Genuine Kenwood accessories enhance the functionality of ProTalk Business Radios.

Description	FITS VHF MODEL	FITS UHF MODELS			Mfr. Model	Item No.
	43Y986	4KYC7, 4NPD8	43Y989	20PF27		
Antennas						
VHF Stubby Antenna	●				KRA-41M	**43Y994**
UHF Stubby Antenna			●		KRA-42M	**43Y995**
VHF Low Profile Helical Antenna	●				KRA-22M	**4KYD1**
UHF Low Profile Helical Antenna			●		KRA-23M	**4KYD2**
VHF Helical Antenna	●				KRA-26M	**4KYD3**
UHF Whip Antenna			●		KRA-27M	**4KYD4**
Audio Accessories						
Single Muff Headset	●	●	●		KHS-7	**4KYE7**
Single Muff Headset w/Inline Push-to-Talk	●	●	●		KHS-7A	**4KYE8**
2-Wire Palm Mic w/Earphone (Black)	●	●	●		KHS-8BL	**4KYE9**
3-Wire Lapel Mic w/Earphone (Black)	●	●	●		KHS-9BL	**4KYF2**
Heavy-Duty Noise Reduction Behind-the-Head	●	●	●		KHS-10D-BH	**4KYF4**
Heavy-Duty Noise Reduction Over-the-Head	●	●	●		KHS-10D-OH	**4KYF5**
Behind the Head Headset w/Push-to-Talk	●	●	●		KHS-22A	**4NPC9**
Clip Mic w/Earphone	●	●	●		KHS-26	**4NPD3**
Headset with Earbud				●	KHS-33	**20PF32**
Push-to-Talk Microphone w/Ear Clip				●	KHS-34	**20PF33**
D-Ring Ear Hanger w/Inline Push-to-Talk	●	●	●		KHS-27A	**4NPD4**
Earphone Kit for 4NPD7	●	●	●		KEP-2	**4NPD5**
Lightweight Compact Speaker Mic	●	●	●		KMC-21A	**4NPD6**
Speaker Mic	●	●	●		KMC-45D	**4NPD7**
Batteries and Chargers						
Li-Ion 2,000 mAh Battery	●		●		KNB-45L	**4KYD5**
Li-Ion 2,000 mAh Battery		●			KNB-46L	**4KYD6**
Li-Ion, 1430mA, Rechargeable Battery				●	KNB-71L	**20PF28**
2-Way Radio Car Charger	●	●	●		KVC-22	**43Y993**
Fast Charger for 4KYD5, 3-hr.	●		●		KSC-35SK	**4KYD7**
Fast Charger for 4KYD6, 2.5-hr.		●			KSC-37	**4KYD8**
6-Unit Charger for 20PF27				●	KMB-44K	**20PF30**
Multi Unit Charger Adapter for 4KYD8		●			KMB-27	**4KYD9**
Multi Unit Charger Adapter for 4KYD7	●		●		KMB-28-AK	**4KYE1**
Battery Charger for 20PF27				●	KSC-44K	**20PF29**
Holster and Belt Clips						
Spring Action Belt Clip	●		●		KBH-10	**4KYE2**
Spring Action Belt Clip		●			KBH-14M	**4KYE3**
Nylon Carry Case	●		●		KLH-187	**43Y992**
Nylon Carry Case		●			KLH-150	**4KYE5**
Audio Accessories						
Ear Loop Earpiece	●	●	●		KHS-31C	**45LW59**

54HH94

54HH72

EARPHONE CONNECTION

Radio Surveillance

Wireless Lapel Microphone—This push-to-talk microphone with Bluetooth technology has easy to connect alignment and distributes excellent audio quality. Provides up to 12 hr. talk time. Includes Fox listen only earpiece, ear tips (left and right), USB cable, and wall charger.

Surveillance Kits—These 2-wire kits feature a microphone that can fit into your palm. Extra long cables provide less tension at the connector. Clear acoustic long tube delivers quality sound. Includes hardwire adapter, and earpieces for both ears. Can be clipped-on.

Description	Item No.
Wireless Lapel Microphone	
For Radios with Embedded Bluetooth: Harris: XG75/100 & XL200-P; Kenwood: NX5000 series; Relm: KNG2; Icom: F3400&F4400, F5400&F6400; Sepura: STP & SC20	**54HH94**
Surveillance Kit	
Kenwood Nexedge 1373, Kenwood Nexedge 220, Kenwood Nexedge 240, Kenwood Nexedge 240D, Kenwood Nexedge 248, Kenwood Nexedge 250, Kenwood Nexedge 259, Kenwood Nexedge 260G, Kenwood Nexedge 270G, Kenwood Nexedge 272G, Kenwood Nexedge 308/320, Kenwood Nexedge 340/340D, Kenwood Nexedge 348, Kenwood Nexedge 350, Kenwood Nexedge 353, Kenwood Nexedge 359, Kenwood Nexedge 360G, Kenwood Nexedge 370G, Kenwood Nexedge 372G, Kenwood Nexedge 373G, Kenwood Nexedge 430, Kenwood Nexedge 431, Kenwood Nexedge NX220, Kenwood Nexedge NX320, Kenwood Nexedge TK208	**54HH72**
Motorola CLS1110, Motorola CLS1410, Motorola CP100, Motorola CP125, Motorola CP150, Motorola CP185, Motorola CP200, Motorola CP88, Motorola CT150, Motorola CT250, Motorola CT450, Motorola CT450LS, Motorola GP2000, Motorola GP300, Motorola GP308, Motorola GP68, Motorola GP88, Motorola XTN446, Motorola XTN500, Motorola XTN600	**54HH73**
Kenwood Nexedge 200, Kenwood Nexedge 2140, Kenwood Nexedge 2180, Kenwood Nexedge 280, Kenwood Nexedge 290, Kenwood Nexedge 3140, Kenwood Nexedge 3180, Kenwood Nexedge 380, Kenwood Nexedge 390, Kenwood Nexedge 480, Kenwood Nexedge 481, Kenwood Nexedge 5210, Kenwood Nexedge 5220, Kenwood Nexedge 5310, Kenwood Nexedge 5320, Kenwood Nexedge 5400, Kenwood Nexedge NX200, Kenwood Nexedge NX210, Kenwood Nexedge NX300, Kenwood Nexedge NX410, Kenwood Nexedge TK190	**54HH74**

477V63

477V64

EARPHONE CONNECTION

Comfort Ear Tips

Ambidextrous ear tip cone that fits both left or right ear. Designed to fit into the opening of either ear canal without penetrating the inside of your ear, reducing ear fatigue. Ear tip is made of soft silicone gel, providing all day comfort. Open skeleton design allows more ambient sound to pass through your ear for improved situational awareness. Universal acoustic tube fit.

Description	Clear Item No.	Black Item No.
Small	**477V63**	**477V64**
Medium	**477V65**	**477V66**
Large	**477V67**	**477V68**

CB Radios and Accessories

All radios have 40 channels.

Description	Connector Type	Brand	Item No.
CB Radios			
29 NW Classic	PL259	Cobra	**23M566**
19 DXIV	4-Pin	Cobra	**23M567**
Handheld CB Radio	—	Midland	**23M606**
Mobile CB Radio	—	Midland	**23M607**
Bearcat 880	PL259	Uniden	**53JW87**
PC78LTX	PL259	Uniden	**53JW88**
CB Radio Accessories			
Shock Resistant, Radio Speaker	3.5 mm	Cobra	**23M568**
Switchable Noise Filter, Radio Speaker	3.5 mm	Cobra	**23M569**
CB Microphone	4-Pin	Cobra	**23M570**

53JW87

Weather Alert Radios

- 162.40 to 162.55 MHz

Specific Area Message Encoding (S.A.M.E.) feature provides localized weather and hazard alerts down to 1 county. Batteries not included.

TABLETOP HAZARD ALERT RADIO, AC- AND BATTERY-POWERED

Includes a 90dB alert siren.

TABLETOP HAZARD ALERT RADIO, AC-POWERED, BATTERY POWERED

Features full date display and 10 memory channels. Can add or remove up to 8 weather alerts (i.e. flood warning, storm watch). Radio receives both analog and digital signals.

HANDHELD HAZARD ALERT RADIO, BATTERY-POWERED

A weather Test button ensures weather alert feature is functioning and auto scan locates available weather channels.

Weather scan feature allows scanning and locking onto the strongest weather channel signal. Receive alerts by tone, voice, or visual. Large backlit LCD display features tri-color LED with 3 alerts including Weather, Watch, and Advisory.

EMERGENCY SEVERE WEATHER SURVIVAL RADIOS

22A871 includes digital tuner display, headphone jack, and beacon. NOAA alert notifications: Child Abduction Emergency (Amber Alert), Nuclear Power Plant Warning, Biological Hazard Warning, Civil Emergency Message, Fire Warning, and Landslide Warning. Also runs on solar, battery, or AC power. Crank handle to recharge included NiMH battery. 31EX14 is an emergency crank radio and ideal for emergency preparedness, camping, beach, park, and everyday use.

60GW59

10A458

22A871

45CY02

Description	Programmable S.A.M.E. Codes	Hazard Alert Notification	AM/FM Radio	NOAA Weatherband	LED Flashlight	USB Cell Phone Charger	Alarm Clock	Color	Brand	Mfr. Model	Item No.
Tabletop Hazard Alert Radio, AC- and Battery Powered	●	●	●	●	●		●	White	Alert Works	EAR-10WH	**60GW59**
Portable Table Top Weather Radio Hazard Alert Radio, AC-Powered, Battery Powered	●	●		●			●	White	Midland	WR-120B	**10A458**
Emergency Portable Weather Radio 2600 mAh Rechargeable Battery, Hand Crank, Mini USB Cable, Solar	●	●	●	●	●	●	●	Red	American Red Cross	ARCFRX3+WXR	**22A871**
Emergency Alert Portable Weather Radio, Battery, USB			●	●	●	●		Red/Black	Midland	ER210	**31EX14**
Emergency Alert Portable Weather Radio, Battery, USB			●	●	●	●		Red/Black	Midland	ER310	**31EX15**
Portable Weather Radio Hand Crank, Micro USB Cable, Rechargeable Battery, Solar			●	●	●	●		Black/Green	Eton	NSP101GR	**45CY02**

Audio Video Entry System

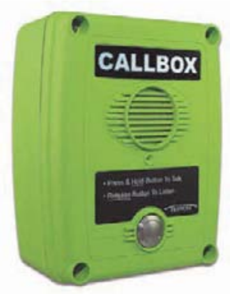
JO series features a 7" screen, light touch buttons, clear picture quality, sleek design, and 2-conductor wiring. Touch buttons allow you to select volume, discreet monitor, LCD adjustment, secondary device, door release, and hands-free communication. **LEF series** are audio only systems that allows you to intermix up to 11 components. Systems have LEDs and call tones that indicate which door/sub station is calling. A selective door release allows you to unlock a door. Suitable for use in residential, office, and industrial applications. **36TR48** is a 3-call station while **36TR42** is a 5-call station.

The **audio master station** is an audio only communication and entry security system. Features door release (N/O contact), calling and 2-way communication, and call tone and voice volume control. **Door station** is designed for use with many AIPHONE Intercom Systems.

36TP95

Description	H	W	D	For Use With	Includes	Item No.
Video Intercom Station Kit	17 in	10 ½ in	3 ½ in	JO Series	JO-1MD Video Intercom Master Station, JO-DV Surface Mount Die Cast Zinc Door Station	**36TP95**
	17 in	10 ½ in	3 ½ in	JO Series	JO-1MD Video Intercom Master Station, JO-DVF Flush Mount Stainless Steel Door Station	**36TP96**
Call Audio Master Station	2 ⅛ in	7 1/16 in	5 ⅝ in	LEF Series	Mounting Hardware	**36TR48**
	3 in	9 ⅜ in	7 ⅞ in	LEF Series	Mounting Hardware	**36TR42**
Audio Master Station	2 ⅛ in	7 1/16 in	5 ⅝ in	LEM Series	Mounting Hardware	**36TR80**
Door Station				AP-M Series, LEF Series, LEM Series, MP-S Series	Mounting Hardware	**36TT12**

423J13


48FX21

48FX27

41P014

JOBCOM® RITRON®

Two Way Radio Callboxes and Callbox Systems

- Compatible with virtually any existing VHF or UHF business radio system operating on the same frequency

Wireless technology installs quickly and easily without trenching and construction. Large speaker is audible even in noisy environments. Powered by 6 D batteries or 12VDC external power.

Quick Assist Shopper Call Buttons—Press of a button instantly alerts radio-equipped staff to the area where assistance is needed. Stand-alone, battery-operated buttons do not require wiring. indoor/outdoor use. Use with existing business band 2-way radios operating on the same VHF or UHF frequencies.

2EUG2

Band Type	Includes	Output Watts	Operating Range	Inside Range (Floors)	Inside Range (sq. ft.)	Channels	No. of Privacy Codes	Programmable Channels	Brand	Item No.
Base Station Intercom, Indoor										
UHF	AC adapter, Flex Antenna	2 mW	Up to 2 Miles	2	200,000	10	Yes	26	Jobcom	**423J13**
Q Series, Call box, 2-Way, Hi-Viz Green										
UHF	Built-In Remote Control Relay for Access Control, Concealed Vandal-Proof Antenna, Mounting Brackets, Requires Matching 2-Way Radio	700 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	114	Ritron	**48FX26**
UHF	Concealed Vandal-Proof Antenna, Mounting Brackets	700 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	114	Ritron	**48FX23**
VHF		800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	27	Ritron	**48FX22**
VHF MURS		800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	5	Ritron	**48FX21**
VHF MURS	Built-In Remote Control Relay for Access Control, Concealed Vandal-Proof Antenna, Mounting Brackets, Requires Matching 2-Way Radio	800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	5	Ritron	**48FX24**
Q Series, Call box, 2-Way- Black										
UHF	Built-In Remote Control Relay for Access Control, Concealed Vandal-Proof Antenna, Mounting Brackets, Requires Matching 2-Way Radio	700 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	114	Ritron	**48FX32**
UHF	Concealed Vandal-Proof Antenna, Mounting Brackets	700 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	114	Ritron	**48FX29**
VHF		800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	27	Ritron	**48FX28**
VHF	Built-In Remote Control Relay for Access Control, Concealed Vandal-Proof Antenna, Mounting Brackets, Requires Matching 2-Way Radio	800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	27	Ritron	**48FX31**
VHF MURS	Concealed Vandal-Proof Antenna, Mounting Brackets	800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	5	Ritron	**48FX27**
VHF MURS	Built-In Remote Control Relay for Access Control, Concealed Vandal-Proof Antenna, Mounting Brackets, Requires Matching 2-Way Radio	800 mW	Up to 2 Miles	2	200,000 sq ft	1	Yes	5	Ritron	**48FX30**
Quick-Assist Shopper Call Button, Indoor										
VHF MURS	AA Battery Holder (Batteries Not Included), Internal Antenna, Sealed Enclosure with Button and Radio Transmitter with Voice Storage Capability	120 mW	Up to ¼ Mile	2	75,000 sq ft	1	Yes	7	Ritron	**41P014**
UHF		120 mW	Up to ¼ Mile	2	75,000 sq ft	1	Yes	77	Ritron	**41P016**
Wireless Voice Alert Systems										
UHF	120 mW Transmitter RQT-451, 50 ft of Wire, Compatible Portable 2-Way Radio, Ritron UHF, Wired Push Button	120 mW	Up to ¼ Mile	—	—	1	—	40	Ritron	**2EUG2**

457K82

CAT Smartphones

CAT

Scratch-resistant touchscreen with Corning Gorilla Glass 5 screen protection. Shockproof with a drop protection of up to 6 ft. Long battery life.

S61 SERIES

Camera features FLIR integrated thermal imaging that visualizes heat invisible to the naked eye, highlighting temperature contrasts. Locate a heat source up to 400°C, even in complete darkness, and diagnose damp, draught, leak, a short or block-ages. Includes laser app that measures distance and records it. Air app alerts you to levels of indoor air pollutants. Water-resistant phone has a super bright 5.2" FHD display. Up to 35 hr. of talk time. Operating system: Google Android Oreo.

S41 SERIES

Waterproof, dustproof, and survives depths of up to 16 ft. (5m). Phone takes underwater photographs and video. Delivers a powerful battery that can even charge other devices and accessories with its battery share feature. Up to 30 hr. of talk time. Provides 44 days of stand by time. Operating system: Google Android Nougat.

Internal Memory Size	Sensor	Waterproofed	Megapixels - Front Camera	Megapixels - Main Camera	Battery Capacity	Item No.
S61 Series						
64 GB	Accelerometer, Ambient Light, Barometer, Compass, Gyro, Proximity	No	8 MP	16 MP	4,500 mAh	**60YD72**
S41 Series						
32 GB	Accelerometer, Ambient Light, Compass, Proximity	Yes	8	13	5,000 mAh	**457K82**

GAI-TRONICS A Hubbell Company

Analog Telephones

Features	Cord Type	Color	Mount (Type)	Speakerphone	Mfr. Model	Item No.
Autodial Telephone						
15 ft Curly Cord	Curly Cord	Gray	Surface	No	257-001H1	**53GW62**
15 in Armored Cord	Armored Cord	Gray	Surface	No	257-001AC	**53GW60**
15 in Armored Cord, Spring Door Closure	Armored Cord	Gray	Surface	No	257-001ACSK	**53GW61**
6 ft Curly Cord	Curly Cord	Gray	Flush	No	277-001H6	**53GW72**
Call Button, Single Button, SMART Operation	—	Gray	Flush	Yes	397-001AD	**53GX19**
Lock, Vandal Resistant	Armored Cord	Gray	Surface	No	227-001LD	**53GW18**
Rugged, SMART Operation	Curly Cord	Gray	Surface	No	247-005	**53GW40**
SMART Operation	Armored Cord	Gray	Flush	No	277-005	**53GW73**
SMART Operation, Spring Door Closure	Curly Cord	Gray	Surface	No	257-005SK	**53GW68**
SMART Operation, Vandal Resistant	Armored Cord	Gray	Surface	No	227-005	**53GW19**
Emergency Telephone						
(2) Buttons, Call Button, Compact, SMART Operation	—	Gray	Flush	Yes	397-001ADFS	**53GX20**
(2) Buttons, Compact, SMART Operation	—	Gray	Flush	Yes	396-001FS	**53GX18**
Retrofit, Single Button, SMART Operation	—	Gray	Flush	Yes	397-001CB	**53GX22**
RT Retrofit, SIP Compatible	—	Gray	Flush	Yes	398-712RT	**53GX61**
Single Button, SMART Operation, Voice	—	Yellow	Flush	Yes	393AL-002	**53GX15**
SIP Compatible, TAP Retrofit	—	Gray	Flush	Yes	398-712TP	**53GX62**
Telephone						
15 in Armored Cord	Armored Cord	Gray	Surface	No	256-001AC	**53GW49**
15 in Armored Cord, Indoor Rugged	Armored Cord	Gray	Surface	No	246-001AC	**53GW34**
15 in Armored Cord, Lock	Armored Cord	Gray	Surface	No	256-001ACLD	**53GW50**
25 ft Curly Cord, Indoor Rugged	Curly Cord	Gray	Surface	No	246-001H2	**53GW35**
29 in Armored Cord	Armored Cord	Gray	Surface	No	256-001A2	**53GW47**
Indoor Industrial Rugged, SMART Operation	Curly Cord	Gray	Surface	No	246-005	**53GW36**
Lock	Curly Cord	Yellow	Surface	No	354-001YLLD	**53GX09**
Rugged, SIP Compatible	Armored Cord	Gray	Surface	No	246-710AC	**53GW37**
SMART Operation, Vandal Resistant	Armored Cord	Gray	Surface	No	226-005	**53GW17**
Spring Door Closure	Curly Cord	Yellow	Surface	No	354-001YLSK	**53GX11**

53GW60

53GX18

AIPHONE

Wired Intercom Systems and Components

Description	Includes	Type	Door Station Height (in.)	Door Station Width (in.)	Door Station Depth (in.)	Item No.
AX Series						
Video Door Station	Mounting Hardware	Indoor/Outdoor	7 11/16 in	3 15/16 in	1 in	**36TR17**
Master Station	Mounting Hardware	Indoor/Outdoor	1 ⅞ in	6 ⅞ in	7 ⅝ in	**36TP71**
C Series						
Chimecom Kit	Mounting Hardware	Indoor/Outdoor	4 ¾ in	3 7/16 in	1 ⅛ in	**36TR44**
DB Series						
Master Station/Door Station Kit	Mounting Hardware	Indoor/Outdoor	6 ⅞ in	3 15/16 in	4 ¼ in	**36TR46**
IE Series						
Audio Tenant Station	Mounting Hardware	Indoor	8 ½ in	4 in	3 in	**36TR43**
IS Series						
Master Station	Mounting Hardware	Indoor/Outdoor	2 5/16 in	7 7/16 in	9 13/16 in	**36TP54**
Video Door Station	Mounting Hardware	Indoor/Outdoor	8 7/16 in	4 ⅛ in	1 ⅛ in	**36TP65**
JF Series						
Video Intercom Station Kit	ABS Plastic Door Station, JF-2MED Master Monitor, JF-DA Surface Mount, PS-1820UL Power Supply	Indoor/Outdoor	17 ¼ in	12 in	3 ⅛ in	**36TP62**
Video Door Station	Mounting Hardware	Indoor/Outdoor	6 13/16 in	3 ⅞ in	1 1/16 in	**36TR38**
Video Master Station	Mounting Hardware	Indoor/Outdoor	1 ¼ in	7 1/16 in	5 5/16 in	**36TP74**
Video Sub Master Station	Mounting Hardware	Indoor	1 ¼ in	7 1/16 in	5 5/16 in	**36TR04**
JO Series						
Video Intercom Station Kit	JO-1MD Video Intercom Master Station, JO-DA Surface Mount ABS Plastic Door Station	Indoor/Outdoor	17 in	10 ½ in	¼ in	**36TP99**
Video Expansion Station	Mounting Hardware	Indoor	2 in	10 in	6 in	**36TR12**
KB Series						
Video Door Station	Mounting Hardware	Indoor/Outdoor	2 ½ in	5 in	8 13/16 in	**36TP77**
Video Master Station	Mounting Hardware	Indoor/Outdoor	4 5/16 in	8 in	4 5/16 in	**36TP60**
Video Sub Master Station	Mounting Hardware	Indoor/Outdoor	4 5/16 in	8 in	4 5/16 in	**36TP64**
LE Series						
Call Audio Master Station	Mounting Hardware	Indoor	2 3/16 in	8 ⅛ in	7 ½ in	**36TR32**

36TP62

Wall
H7432

Wall
30PK01

Standard Telephones

- ADA-Compliant volume control
- Include handset and line cords

Single-line phones are made of durable plastic and are designed to operate in the most demanding work environments.

Wall-Mount—Each has a bell ringer for use in noisy areas.

Emergency Telephones—Red emergency color identifies usage and attracts attention during emergency or security situations. Features faceplate area for emergency instructions.

Voicemail	Ringer	▶CHOOSE: Color	Item No.
Wall-Mount			
Yes	Yes	Tan, Black	**H7431**
No	Yes	Tan, Black	**H7432**
Emergency Telephone			
No	Yes	Red	**30PK01**

Disposable Healthcare Telephone

- 95dB ringer

Features volume control, voicemail and call waiting. Includes handset, base, coil cord, and line cords.

Description	Mfr. Model	Item No.
Analog	41T-5 R (WH)	**45CT89**

45CU07

45CU11

45CU21

45CT93

good, better... bittel

Hospitality Telephones

- 95 dB ringer
- Speakerphone
- Analog

Speakerphone	No. of Lines	Color	Mfr. Model	Item No.
Desk Mount				
Yes	1	Black	UNOAS-10BA	**45CU03**
Yes	1	Black	UNOAS-5BA	**45CU04**
Yes	1	Black	CGR-UNOV-MCC/UNOAS-10BA	**45CU07**
Yes	1	Black	CGR-UNOV-MCC/UNOAS-5BA	**45CU08**
Yes	1	Black	UNOM5S-10B	**45CU11**
Yes	1	Black	UNOM5S-5B	**45CU12**
Yes	1	Black	62S-10B	**45CU21**
Yes	1	Black	62S-5B	**45CU22**
Yes	1	White	62S-10I	**45CU23**
Wall or Desk Mount				
No	1	Tan	41T-5 MW (AS)	**45CT92**
No	1	Black	41T-5 MW (BK)	**45CT93**
Yes	1	Tan	123S-C	**45CT94**
Yes	1	Black	123S-B	**45CT95**
No	1	Tan	38TS10-C	**45CT96**
Yes	1	Black	38TSD10S-B	**45CT98**
Yes	2	Black	38TSDT10-B	**45CU01**
Yes	2	Tan	38TSDT10-C	**45CU02**

41D240

29WJ96

3TML4

Description	Color	Mfr. Model	Item No.
Hearing-Impaired Guest Room Phone Sets			
Hospital & Hotel Room	Black	HTSET3	**5KZF8**
Hotel Room	Black	HTSET4B	**41D240**
Hospital	White	CA360	**29WJ96**
Accessories			
Amplified Telephone Ring Signaler	Black	CS-CR200	**22M767**
Portable Telephone Amplifier	White	IL95W	**3TML6**

ClearSounds
It's Communication Amplified.

Amplified Telephones

TELEPHONES

Note: Use of Caller ID requires subscription to a Caller ID service.

CSC600 Series—Have UltraClear sound clarifying technology. Feature missed call indicator and Caller ID/Call Waiting with 99-name/number Caller ID history.

Hearing-Impaired Guest Room Phone Sets—Make sure your facility is ADA compliant to ensure your deaf or hearing-impaired guests are notified in an emergency.

If your property does not include audible and visual detectors, use Kit 5KZF8. Includes display TTY, telephone ring signaler, ClearSounds clock with telephone signaler, bed shaker, telephone in-line amplifier, door knock alert, and a visual strobe smoke detector.

If your property has smoke detectors that are both audible and visual, use Kit 41D240. Includes portable in-line telephone amplifier, Y-jack for phone attachment, digital TTY, door knocker, vibrating alarm clock with telephone signaler, (2) AC adapters, 9V battery, (6) AA rechargeable batteries, vibrating pad, and standard hotel soft case.

For main building fire alarms, if your current system does not signal visually in your hearing-impaired rooms, you must use a signaling device. Kit 29WJ96 is triggered by a continuous T3-T4 fire alarm sound and transfers the signal to the main flashing base. Includes base alerting device, bed shaker, door knock alert, telephone line cord, and fire alarm transmitter.

ACCESSORIES

Amplified Telephone Ring Signaler—Plastic signaler features bright LED light and is for use with any analog telephone line. Includes AC power adapter, telephone line cord, and instruction manual.

Description	Display Dial	New Call Indicator	Message Indicator	Caller ID/ Call Waiting	Talking Caller ID	Call History	Color	Mfr. Model	Item No.
CSC600	●	●	●	●	●	●	White	CSC600W	**3TML4**

AmpliVox Portable Sound Systems · speco technologies · FEDERAL SIGNAL

Megaphones

Feature volume control and trigger talk switch. 20W323 handheld unit includes a siren mode. 20W324 features record/playback capabilities, strobe light, and whistle and siren modes. 3YMK8 features high-impact, self-extinguishing plastic construction and is suitable for hazardous environments.

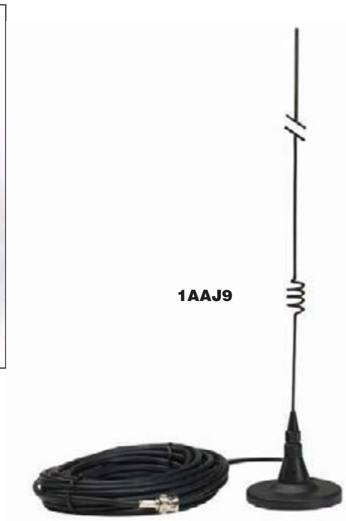
Description	Operating Range	L	Brand	Item No.
Megaphones with Built-In Microphone				
45 WW, Shoulder with Siren Mode, 5.5 lb. net wt.	2640 ft	21 in	—	3YMN2
25 WW, Handheld Detachable Mic with Talk, Whistle, Siren Modes and Battery Indicator Lights. 2.5lb net wt.	5280 ft	14 ½ in	AmpliVox	36CJ43
16 WW, Handheld with Siren Mode, 4.75 lb. net wt.	800 ft	14 ¼ in	Speco Technologies	49N882
25 WW, Handheld with Siren Mode, 2.75 lb. net wt.	5280 ft	14 in	—	3YMN1
25 WW, Handheld with Foghorn, 3.96 lb. net wt.	3168 ft	13 in	—	4PD84
Standard Handheld Megaphones				
20 WW, Handheld with Talk, Whistle, Siren Modes and Battery Indicator Lights, 1.5 lb net wt.	3300 ft	12 in	AmpliVox	36CJ39
10 WW, Handheld with Talk and Siren Modes, Shoulder Strap, 1.2 lb net wt.	300 ft	10 in	AmpliVox	20W323
10 WW, Handheld with Rechargeable Battery, Talk and Siren Modes, Shoulder Strap, 1.2 lb net wt.	300 ft	10 in	AmpliVox	36CJ38
25 WW, Handheld with Talk, Whistle, and Siren Modes, 2.0 lb. net wt.	5280 ft	14 ¼ in	—	3YML9
20 WW, Handheld with Talk, Whistle, Siren Modes, Rechargeable Battery and Battery Indicator Lights, 1.5 lb net wt.	3300 ft	12 in	AmpliVox	36CJ40
15 WW, Handheld with Talk, Whistle, and Siren Modes, 1.5 lb. net wt.	3300 ft	12 in	—	3YML8
25 WW, Handheld with Talk, Whistle, Siren Modes and Battery Indicator Lights, 2.0 lb net wt.	5280 ft	14 in	AmpliVox	36CJ41
25 WW, Handheld with Rechargeable Battery, Talk, Whistle, Siren Modes and Battery Indicator Lights, 2.0 lb net wt.	5280 ft	14 in	AmpliVox	36CJ42
15 WW, Handheld with Foghorn, 3.52 lb. net wt.	528 ft	13 ¼ in	—	4H973
10 WW, Handheld with Talk, Whistle, Siren Modes, and Strobe Light, 1.2 lb net wt.	300 ft	10 ½ in	AmpliVox	20W324
16 WW, Voice Gun, 3.0 lb. net wt.	1320 ft	10 ¼ in	Federal Signal	3YMK8
25W, Handheld with Talk, Siren and Whistle Modes, Detachable Mic, Adjustable Shoulder Strap, 2.5 lb net wt.	5280 ft	14 in	AmpliVox	36CJ44

Go Beyond Normal Limits... RITRON® WIRELESS SOLUTIONS

Wireless PA Systems

- 85dB max. at 50 ft.
- Work with 2 way-radios
- 1 channel
- 8 ohm impedance

Eliminate running wire, and put PA communication right where you need it. Can be programmed with custom frequencies to work with existing 2 way-radios in the same frequency band (PC programmer optional). Additional features include adjustable volume, message repeat function, and visual alert relay for optional strobe light.



Description	Band Type	Includes	Item No.
Wireless PA Systems			
Rechargeable System	VHF	25 ft Cable, Compatible Portable 2-Way Radio, Flex Antenna, Mounting Brackets, PA Horn Speaker, Phono Connector, Radio Receiver, Rechargeable Back-Up Battery Pack, 110V AC adapter	1AAK1
Rechargeable System	UHF		1AAK2
Accessory			
Magnetic Mount Antenna	VHF/UHF		1AAJ9

38L977

49CA09

49CA10

49CA12

447D80

447D62

447D72

447D67

PA System Speakers

Speakers offer high-quality sound production for your public address system. **Federal Signal** speakers are UL Fire Listed.

Type	No. of Channels	Band Type	Includes	H	W	D	Color	Brand	Item No.
PA Weatherproof Alarm Siren									
Audible Signal	0	—	Mounting Bracket	4 ½ in	7 ¾ in	9 ½ in	White	Speco Technologies	**38L977**
PA Weatherproof Speaker									
Amplified Speakers	5	CB	—	12 13/32 in	7 29/32 in	8 ½ in	Red	Federal Signal	**447D76**
	5	CB		13 29/32 in	10 13/64 in	9 29/32 in	Red	Federal Signal	**447D79**
Audible Signal	0	—	Mounting Bracket	—	6 in	6 in	Gray	Speco Technologies	**49N890**
	5	CB	—	12 5/8 in	10 13/64 in	9 29/32 in	Gray	Federal Signal	**447D56**
	0	—		—	—	—	—	Speco Technologies	**2KJW4**
	0	—		—	—	—	—	Speco Technologies	**2KJW5**
Commercial Series	0	—	Mounting Bracket, Selectable 70/25V Transformer	5 in	7 in	5 in	Beige	Speco Technologies	**49CA09**
Contractor Series	0	—	Mounting Bracket, Rubber Bell Protector, Selectable 70/25V Transformer Dial	6 ½ in	6 ½ in	7 ¼ in	Gray	Speco Technologies	**49CA10**
	0	—	Mounting Bracket, Selectable 70/25V Transformer	6 ¼ in	8 51/64 in	8 57/64 in	Beige	Speco Technologies	**49CA11**
	0	—	Mounting Bracket, Rubber Bell Protector, Selectable 70/25V Transformer Dial	10 ½ in	10 ½ in	10 in	Gray	Speco Technologies	**49CA12**
Explosion-Proof	1	CB	—	17 in	13 7/64 in	16 19/64 in	Gray	Federal Signal	**447D64**
	1	CB		17 in	13 7/64 in	16 19/64 in	Red	Federal Signal	**447D65**
	1	CB		18 51/64 in	16 45/64 in	19 ½ in	Gray	Federal Signal	**447D70**
	1	CB		18 51/64 in	16 45/64 in	19 ½ in	Red	Federal Signal	**447D71**
Explosion-Proof Amplified Speakers	5	CB		18 51/64 in	16 45/64 in	19 ½ in	Red	Federal Signal	**447D80**
Explosion-Proof Audible Signal	1	CB		18 51/64 in	16 45/64 in	19 ½ in	Gray	Federal Signal	**447D58**
Hazardous Location Amplified Speaker	5	CB		12 13/32 in	7 29/32 in	8 ½ in	Red	Federal Signal	**447D75**
	5	CB		17 in	13 7/64 in	16 19/64 in	Red	Federal Signal	**447D77**
	5	CB		13 29/32 in	10 13/64 in	9 29/32 in	Red	Federal Signal	**447D78**
Horn	0	—		5 in	5 in	5 in	Gray	Speco Technologies	**49CA08**
	1	—	Mounting Bracket	4 5/8 in	7 ¾ in	9 ½ in	White	Speco Technologies	**38L978**
	1	—	Mounting Bracket	11 in	6 in	8 ½ in	White	Speco Technologies	**38L979**
Public Address	1	CB	In-Line Capacitor	12 ¼ in	7 15/16 in	8 ¼ in	Gray	Federal Signal	**447D60**
	1	CB	In-Line Capacitor	12 ¼ in	7 15/16 in	8 ¼ in	Red	Federal Signal	**447D61**
	1	CB	In-Line Capacitor	14 in	10 ½ in	11 in	Gray	Federal Signal	**447D66**
Public Address Hazardous Location Speaker	1	CB	—	12 ¼ in	7 15/16 in	8 ¼ in	Gray	Federal Signal	**447D62**
	1	CB		12 ¼ in	7 15/16 in	8 ¼ in	Red	Federal Signal	**447D63**
	1	CB		14 in	10 ½ in	11 in	Gray	Federal Signal	**447D68**
	1	CB		14 in	10 ½ in	11 in	Red	Federal Signal	**447D69**
	5	CB		13 29/32 in	10 13/64 in	9 29/32 in	Gray	Federal Signal	**447D57**
Rectangle	0	—		—	—	—	—	Speco Technologies	**2KJW3**
Re-Entrant Speaker	1	CB	Trim Ring	5 ½ in	5 ½ in	2 ½ in	Beige	Federal Signal	**447D72**
	1	CB	Trim Ring	5 ½ in	5 ½ in	2 ½ in	Red	Federal Signal	**447D73**
	1	CB	Trim Ring	5 ½ in	5 ½ in	2 ½ in	Beige	Federal Signal	**447D74**
Round	0	—	—	—	—	—	—	Speco Technologies	**2KJW2**
	0	—		—	—	—	—	Speco Technologies	**2KJW6**
Speaker									
Horn	0	—	In-Line Capacitor	14 in	10 ½ in	11 in	Red	Federal Signal	**447D67**

Rock Speaker
G4033

36H465

Outdoor Speakers

ALL-WEATHER

Feature mesh aluminum grilles for protection. Adjustable brackets allow multiple mounting options.

ROCK SPEAKER

Rock design blends seamlessly into any outdoor environment.

Watt (RMS)	Max. Wattage	Sensitivity	Frequency Response	Woofer Dia.	Tweeter Dia.	Overall H	Overall W	Overall Length	▶CHOOSE: Encl. Color	Item No.
All-Weather Elite with Volume Control (8 ohm) Polypropylene Woofer, Silk Dome Tweeter, Pkg. of 2										
25 W	40 W	84 dB	75Hz-20kHz	4 in	¾ in	9 ½ in	6 in	6 ½ in	Black	**36H460**
25 W	40 W	84 dB	75Hz-20kHz	4 in	¾ in	9 ½ in	6 in	6 ½ in	White	**36H462**
All-Weather 3-Way Speaker w/Transformer (8 ohm ohm), Polypropylene Tweeter, Pkg. of 1										
—	50 W	—	55-20kHz	4 in	1 in	7 ¼ in	4 ½ in	4 2/5 in	Black	**36H465**
—	50 W	—	55-20kHz	4 in	1 in	7 ¼ in	4 ½ in	4 2/5 in	White	**36H466**
Rock Speakers, All-Weather (8 ohm ohm), Mica Woofer, PEI Tweeter, Pkg. of 1										
30 W	60 W	—	70Hz to 20kHz	6 ½ in	½ in	13 3/8 in	12 5/8 in	11 13/16 in	Brown, Gray	**G4033**

Gooseneck

Handheld

Microphones

Wired—3ZJE7 gooseneck features push-to-talk switch, 500-ohm impedance, and mounting base. 2KJR6 handheld comes with batteries and 20-ft. XLR Mic cables.

Wireless—700 preprogrammed frequencies for interference-free channels of communication for roaming distances in excess of 200 ft. Feature auto channel scan, integrating charging, balanced XLR connector, and unbalanced ¼" jack audio output.

Description	Connector Type	Item No.
Wired		
Gooseneck Microphone	5-Wire	**3ZJE7**
Handheld Microphone	XLR Male Connector	**2KJR6**
Desktop Conference & Paging Microphone	XLR Male Connector	**36H479**
Wireless		
Handheld UHF Microphone	—	**5KZG5**
Lapel UHF Microphone	—	**5KZG6**

speco technologies

Wall-Mount Speaker

- 93±3 dB sensitivity
- 70V
- 8 ohm impedance

Installation requires no cutting into ceiling or wall. Brown, walnut-grained wood construction has black cloth grille. Paper woofer.

Watt (RMS)	Max. Wattage	Frequency Response	Woofer Dia.	Overall H	Overall W	Overall Length	Item No.
10 W	16 W	85Hz to 20kHz	8 in	10 in	10 in	10 in	**23Y702**

5KZG3

2KJX9

45MK48

36H467

36H468

2KJP1

45MK49

speco technologies

In-Ceiling and In-Wall Speakers

- 8 ohm impedance

For music or paging. Mounting brackets are required and are sold separately.

5KZG3—Includes fire-retardant metal back can, quick-snap terminal connections, 70V transformer dial, mounting brackets, metal safety loop, and ported bass.

2KJX9—Plastic and flame-retardant back-box enclosure offers extra protection. Features up to 9 full-range wattage tap settings.

45MK48 and **45MK50** include a volume control knob.

30 and 10 W Speakers—Feature 5 built-in wattage tap settings, except 36H467 to 36H470 have 6 built-in wattage tap settings.

Watt (RMS)	Max. Wattage	Sensitivity	Frequency Response	Woofer Dia.	Woofer Composition	Tweeter Dia.	Tweeter Composition	Overall H	Overall W	Overall Length	Item No.	Pkg. Qty.
Speakers												
40 W	80 W	8 dB	60Hz to 20,000Hz	6 ½ in	Polypropylene Woofer	¾ in	Silk	7 ¾ in	10 ¼ in	10 ¼ in	**5KZG3**	2
40 W	80 W	88 dB	34Hz to 20,000Hz	6 ½ in	Polypropylene	1 in	Mylar	7 ½ in	11 in	11 in	**2KJX9**	1
30 W	60 W	87 dB	57Hz to 20,000Hz	5 ¼ in	Polypropylene	1 in	Mylar	6 in	9 ½ in	9 ½ in	**2KJX8**	1
30 W	60 W	—	63Hz to 21,000Hz	6 ½ in	Mineral Polymer	½ in	Titanium	7 ½ in	9 in	9 in	**2KJW8**	2
10 W	15 W	90 dB	85Hz to 20kHz	8 in	Paper	8 in	Paper	3 ½ in	12 in	24 in	**45MK46**	1
10 W	15 W	90 dB	85Hz to 20kHz	8 in	Paper	8 in	Paper	3 ½ in	24 in	24 in	**45MK47**	1
10 W	15 W	90 dB	85Hz to 20kHz	8 in	Paper	8 in	Paper	3 ½ in	24 in	24 in	**45MK48**	1
Speakers w/Transformer												
10 W	15 W	91±3 dB	90Hz~20kHz	8 in	Treated Paper	—	—	3 ⅕ in	10 ¾ in	10 ¾ in	**36H467**	1
10 W	15 W	91±3 dB	120Hz~20kHz	6 in	Treated Paper	—	—	3 in	9 in	9 in	**36H469**	1
Speakers w/Transformer & Volume Control												
10 W	15 W	91±3 dB	90Hz~20kHz	8 in	Treated Paper	—	—	3 ⅕ in	10 ¾ in	10 ¾ in	**36H468**	1
10 W	15 W	91±3 dB	120Hz~20kHz	6 in	Treated Paper	—	—	3 in	9 in	9 in	**36H470**	1
Speaker Grill Combination												
10 W	15 W	—	85Hz to 20,000Hz	8 in	Polypropylene	—	—	3 ½ in	13 in	13 in	**2KJP1**	1
Speaker Kits												
10 W	15 W	90 dB	85Hz to 20kHz	8 in	Paper	8 in	Paper	3 ½ in	13 in	13 in	**45MK49**	1
10 W	15 W	90 dB	85Hz to 20kHz	8 in	Paper	8 in	Paper	3 ½ in	13 in	13 in	**45MK50**	1

For Use With	Overall H	Overall W	Overall Length	Item No.
Speaker Ceiling Supports				
2KJP1	—	23 ¾ in	14 ⅜ in	**36A981**
Speaker Ceiling Back Boxes, Pkg. of 1				
2KJP1	4 ½ in	11 ¾ in	11 ¾ in	**2KJP2**

speco technologies

Quick-Install Speaker Assembly

- 90 dB sensitivity
- 70/25V pigtail leads
- 8 ohm impedance

Lay-in ceiling mount system replaces a standard 24" x 24" ceiling tile. Polypropylene woofer, mylar tweeter. Includes a 2-ft L drop ceiling crossbar rail.

Watt (RMS)	Max. Wattage	Frequency Response	Woofer Dia.	Tweeter Dia.	Overall H	Overall W	Overall Length	Item No.
30 W	60 W	50Hz to 20,000Hz	8 in	¾ in	23 in	23 in	6 in	**2KJY1**

ABS Plastic
3CWU8

ABS Plastic
3CWX2

Aluminum
2KJW2

Aluminum
2KJW3

Horn Speakers

Designed for telephone and microphone paging in loud environments, both indoors and out. Mounting brackets and hardware included.

Explosionproof Audible Signal Multitone Horn—Has a 55-tone capability and internal volume control.

Hazardous Location Multitone Horn—Includes a 55-tone capability. For use in dusty and hazardous areas where a distinctive alert is required. For Division 2 locations.

36H458—An amplified weatherproof PA speaker; designed for applications that can benefit by not having a dedicated amplifier.

Additional Transformer—Works with most brands of horn speakers. Flange mount.

Impedance	Sensitivity	Max. Wattage	Watt (RMS)	Frequency Response	Overall H	Overall W	Overall Length	Encl. Material	Brand	Item No.
Multi-Tone Horn - Explosionproof Audible Signal										
—	90 dB	—	—	—	11 ¼ in	11 ¼ in	18 ⅓ in	Cast Aluminum	Edwards Signaling	**13T112**
Multi-Tone Horn - Hazardous Location, 24VDC										
—	110 dB	—	—	—	15 in	8 ⅞ in	8 in	Cast Zinc	Edwards Signaling	**13T111**
Paging Speakers										
8 ohm	107 dB	40 W	30 W	400Hz to 6kHz	9 ¹¹⁄₁₆ in	6 ⁵⁄₁₆ in	11 in	ABS Plastic	—	**3AXC9**
8 ohm	107 dB	25 W	15 W	400Hz to 6kHz	9 ¹¹⁄₁₆ in	6 ⁵⁄₁₆ in	11 in	ABS Plastic	—	**3AXC8**
PA Horns										
8 ohm	105 dB	15 W	10 W	250 to 15,000Hz	6 in	6 in	6 in	Aluminum	Speco Technologies	**3CWU7**
3-16 ohm	—	20 W	—	500Hz~5kHz	—	—	—	—	Speco Technologies	**36H458**
8 ohm	110 dB	30 W	15 W	200 to 15,000Hz	4 in	6 in	8 in	ABS Plastic	Speco Technologies	**3CWX1**
8 ohm	105 dB	15 W	10 W	300 to 15,000Hz	5 in	5 in	5 in	ABS Plastic	Speco Technologies	**3CWU8**
8 ohm	120 dB	32 W	15 W	250 to 15,000Hz	11 in	6 ½ in	13 in	ABS Plastic	Speco Technologies	**3CWX2**
PA Weatherproof Speakers										
8 ohm	110 dB	25 W	15 W	200Hz to 15,000Hz	8 in	8 in	8 in	Aluminum	Speco Technologies	**2KJW2**
8 ohm	110 dB	25 W	15 W	200Hz to 15kHz	5 in	8 in	8 in	Aluminum	Speco Technologies	**2KJW3**
8 ohm	105 dB	15 W	6 W	300Hz to 15kHz	5 ¼ in	5 ¼ in	6 in	ABS Plastic	Speco Technologies	**2KJW6**
8 ohm	105 dB	30 W	15 W	450Hz to 15,000Hz	8 in	8 in	9 in	Aluminum	Speco Technologies	**2KJW4**
8 ohm	120 dB	30 W	20 W	250Hz to 16,000Hz	8 in	11 in	10 ¼ in	ABS Plastic	Speco Technologies	**2KJW5**
Speaker										
8 ohm	—	—	80 W	—	—	—	—	—	Speco Technologies	**49N875**

Description	Power Taps @ 75V	Item No.
Additional Transformer		
Multiple Tap Transformer, 70V	10 W/5 W/2.5 W/1.25 W/0.625 W	**2KJP4**

3CWT8

3CWU5

Projection Horn Casing and Driver

Combine casing with universal driver to create custom projection horns. Sold separately.

PROJECTION HORN CASING
Weatherproof, for indoor or outdoor use. Includes mounting brackets and hardware.

UNIVERSAL RMS DRIVER
Features built-in line transformers.

Overall H	Overall W	Overall Length	Item No.
Projection Horn Casing			
20 in	20 in	20 ¼ in	**3CWT8**

Watt (RMS)	Max. Wattage	Sensitivity	Frequency Response	Overall H	Overall W	Item No.
Universal RMS Driver (70V)						
80 W	100 W	112 dB	300 to 5000Hz	7 in	3 ¼ in	**3CWU5**

2KJU4

49CA21

2KJT7

Amplifiers and Tuner

PA Amplifiers—Provide power to paging and music address systems. **2KJU4—**On-hold feature assures customers hear supplied music or dialogue.

PA Amplifiers with Multiple Zones—Allow different or same audio sources to be played in different rooms simultaneously.

Digital AM/FM Tuner—Works with most amplifiers to play radio broadcasts. Includes 30 presets.

Output Watts	Inputs	Output	Includes	Item No.
PA Amplifiers				
30 W	(2) Mics, Auxiliary, Telephone Paging	70/25V	Music On Hold Feature with Separate Level Control	**2KJU4**
15 W	(1) Auxiliary, (2) Mics	4/8/16 Ohms, 70/25V	—	**36H471**
30 W	2 Mics and 1 Auxiliary	4/8/16 Ohms, 70/25V	—	**36H472**
120 W	(3) Auxiliary Stereo RCA, (3) Mic XLR, 1-RS-232, Telephone	25/70V	AC Power Cord, IR Remote Control, Rack Mounting Brackets	**49CA18**
120 W		25/70V	AC Power Cord, AM Antenna, IR Remote Control, Rack Mounting Brackets	**49CA19**
120 W		25/70V	AC Power Cord, AM Antenna, CD, IR Remote Control, Rack Mounting Brackets, USB	**49CA20**
60 W		25/70V	AC Power Cord, IR Remote Control, Rack Mounting Brackets	**49CA21**
60 W		25/70V	AC Power Cord, AM Antenna, IR Remote Control, Rack Mounting Brackets	**49CA22**
60 W		25/70V	AC Power Cord, AM Antenna, CD, FM Antenna, IR Remote Control, Rack Mounting Brackets, USB	**49CA23**
240 W	(3) Auxiliary Stereo RCA, (3) Mic XLR, 1-RS-232, AM Antenna Press Terminal, FM Antenna BNC, Telephone Terminal	70V	AC Power Cord, IR Remote Control, Module Bay, Rack Mounting Brackets	**49AH98**
240 W		70V	AC Power Cord, IR Remote Control, Rack Mounting Brackets, Tuner Module	**49AH99**
240 W	(1) AM Antenna (Press Terminal), (1) FM Antenna (BNC), (1) Telephone (Terminal), (3) Auxiliary (Stereo RCA), (3) Mics (XLR)	4/8 Ohms (Non-Zoned), 70V (Zoned)	AC Power Cord, AM Antenna, FM Antenna, IR Remote Control, Rack-Mountable Brackets	**49NU92**
PA Amplifiers with Multiple Zones				
260 W	(1) EQ/Mix, (1) Telephone Paging, (3) Auxiliary, (5) XLR Mics	4/8/16 Ohms, 70/25V	Music On Hold Feature with Separate Level Control	**2KJU6**
40W	(2) RCA, (3) XLR / ¼ in, Combination	160 W	—	**3CWR5**
PA Amplifier with AM/FM Tuner				
30 W	(1) Auxiliary, (1) Telephone, 2 XLR Connections	25/70V	30 Presets	**2KJT7**

3XPP1

5CFN3

5CFN9

14F256

5CFN8

Binoculars

- Fogproof

Description	Magnification/ Objective Lens	Field of View	Prism Type	Tripod Mountable	L	W	H	Weight	Brand	Item No.	
Compact											
General Binocular, Aluminum w/Rubber Armor	10x	302 ft. @ 1000 yd	Roof	No	4 7/16 in	1 ½ in	4 ½ in	0.5 oz	Barska	**49U592**	
Super-Compact Aluminum Body with Wide Angle, Black/Aluminum	8 x 25	417 ft. @ 1000 yd	Roof	No	4 in	2 ½ in	2 5/16 in	9.6 oz	Northwest	**2UY33**	
Compact Binocular, Fully Multi-Coated	10x	302 ft. @ 1000 yd	Roof	No	4 29/32 in	4 7/64 in	1 13/16 in	10.4 oz	Steiner Optics	**40CF38**	
Binocular, Uncoated	10 x 25	342 ft. @ 1000 yd	BK-7	—	—	—	—	—	Carson	**3XPP1**	
Binocular, Fully Coated	10x	302 ft	Roof	No	4 21/64 in	1 21/32 in	4 17/32 in	0.65 lb	Barska	**45CN15**	
Binocular, Fully Coated	9x to 27x	230 ft. @ 1000 yd	Porro	No	6 in	5 in	3 in	12.95 oz	Barska	**53JF66**	
Full-Size											
Full-Size Zoom, Black	7 to 15 x 35	305 ft. @ 1000 yd	Porro	Yes	5 ½ in	6 ⅘ in	3 ¼ in	24.0 oz	Northwest	**2UY38**	
Full-Size Wide Angle, Black	7 x 35	488 ft. @ 1000 yd	Porro	Yes	5 ½ in	6 7/16 in	2 ⅞ in	23.2 oz	Northwest	**2UY37**	
Full-Size, Black/Gray	10 x 42	338 ft. @ 1000 yd	Porro	Yes	5 ⅝ in	6 7/16 in	2 ⅞ in	21.6 oz	Northwest	**2UY35**	
Full-Size, Long Eye Relief, Black	10 x 50	305 ft. @ 1000 yd	Porro	Yes	7 ⅞ in	7 ¼ in	2 9/16 in	36.8 oz	Northwest	**5CFN7**	*
Marine											
Full-Size, Black	8 x 42	356 ft. @ 1000 yd	Roof	No	6 ⅓ in	5 ½ in	2 in	27.2 oz	Northwest	**5CFN3**	*
Full-Size, Blue	7 x 50	380 ft. @ 1000 yd	Porro	Yes	3 ½ in	8 ¾ in	9 ½ in	36 oz	Bushnell	**14F256**	*
Full-Size with Analog Compass and Reticle, Blue	7x50	350 ft. @ 1000 yd	Porro	Yes	3 ½ in	8 ¾ in	9 ½ in	37 oz	Bushnell	**8XAA9**	*
Boating, Fully Coated	7x	350 ft. @ 1000 yd	Porro	Yes	7 15/16 in	1 3/16 in	8 5/16 in	2.7 oz	Barska	**49U562**	
Marine, Fully Multi-Coated, Blue	7x	370 ft. @ 1000 yd	Porro	Yes	5 ½ in	8 7/64 in	3 in	36.3 oz	Steiner Optics	**40CF32**	
Marine with Compass, Fully Multi-Coated, Blue	7x	370 ft. @ 1000 yd	Porro	Yes	5 ½ in	8 7/64 in	3 13/16 in	39.2 oz	Steiner Optics	**40CF33**	
Military/Police											
Military, Fully Multi-Coated	7x	132 ft. @ 1000 yd	Porro	Yes	7 15/16 in	4 in	6 5/16 in	47.2 oz	Barska	**49U554**	
Military, Fully Multi-Coated	7x	393 ft. @ 1000 yd	Porro	Yes	7 ¾ in	8 in	4 ¼ in	54.4 oz	Barska	**49U552**	
Military, Fully Multi-Coated	8x	423 ft. @ 1000 yd	Porro	Yes	6 ½ in	2 ¼ in	4 ¾ in	21.6 oz	Barska	**49U559**	
Full-Size Commander, Fully Multi-Coated, Blue	7x	438 ft. @ 1000 yd	Porro	Yes	6 13/64 in	8 7/64 in	3 in	38.4 oz	Steiner Optics	**40CF34**	
Full-Size Commander w/Compass, Fully Multi-Coated, Blue	7x	438 ft. @ 1000 yd	Porro	Yes	6 13/64 in	8 7/64 in	3 13/16 in	42 oz	Steiner Optics	**40CF35**	
Full-Size Military, Spotting, Black	25 to 125 x 80	26 ft. @ 1000 yd	Porro	Yes	13 25/64 in	8 ⅔ in	3 15/16 in	120.0 oz	Northwest	**5CFN8**	*
Spotting Scope with Tripod											
Monocular, Blue Green	20 to 80 x 70	24 ft. @ 1000 yd	Porro	Yes	17 ⅛ in	3 ¾ in	5 ⅓ in	51.2 oz	Northwest	**5CFN9**	*
Accessories											
Tripod		—			23⅔ in	4½ in	2½ in	—	Northwest	**5CFP1**	
Monopod		—			24 13/32 in	2 15/16 in	2¾ in	—	Northwest	**5CFP2**	
Float Strap, Yellow, Nylon		—			—	—	—	—	Steiner Optics	**40CF70**	
Float Strap, Yellow/Black, Nylon		—			—	—	—	—	Steiner Optics	**40CF71**	
Float Strap, Yellow/Black, Nylon		—			—	—	—	—	Steiner Optics	**40CF72**	
Binocular Harness, Black, Nylon		—			—	—	—	—	Steiner Optics	**40CF73**	

***** *Waterproof.***

413X54

45CL77

20VJ29

54DX73

Rifle Scopes

Magnification	Objective Lens	Reticle	Field of View @ 100 yd.	Eye Relief	L	Parallax Adjustable	Illuminated	Brand	Item No.
Rifle Scopes									
1x	15 mm	3 MOA Dot	29 ft	Unlimited	1.8 in	No	Yes	Steiner Optics	**401P33**
1x	20 mm	Switchable	—	Unlimited	2.65 in	No	Yes	Sig Sauer	**413X54**
1x to 5x	24 mm	3TR 5.56	21 ft	3.5 in	11.3 in	No	Yes	Steiner Optics	**401P26**
1x to 6x	24 mm	Mil Dot	108 ft @ 1x/ 21.5 ft @ 5x	3.7 in	—	No	Yes	Barska	**45CL60**
3x to 9x	32 mm	30/30	36 ft @ 3x/ 13 ft @ 9x	3.4 in	12.4 in	No	No	Barska	**20VJ72**
3x to 9x	40 mm	30/30	36 ft @ 3x/ 13.6 ft @ 9x	3.4 in	13 in	No	No	Barska	**20VJ76**
3x to 9x	40 mm	30/30	33 ft @ 3x/ 11 ft @ 9x	3.3 in	—	No	No	Barska	**45CL71**
3x to 12x	40 mm	30/30	27.8 ft @ 3x/ 6.8 ft @ 12x	3.1 in	—	Yes	No	Barska	**45CL77**
3x to 15x	50 mm	Tremor 3	36 ft @ 3x/ 7.5 ft @ 15x	3.5 in	13.1 in	Yes	Yes	Steiner Optics	**401P31**
5x to 25x	56 mm	Rapid Dot	23.6 ft @ 5x/ 4.6 ft @ 25x	3.5 in	16.6 in	Yes	Yes	Steiner Optics	**401P32**
6x to 24x	50 mm	Mil Dot	15.7 ft @ 6x/ 4.3 ft @ 24x	3.2 in	16.7 in	Yes	Yes	Barska	**20VJ29**
8x to 26x	50 mm	Mil Dot	11.52 in @ 8x/ 3.66 ft @ 32x	2.7 in	—	Yes	No	Barska	**45CL66**
Rifle Scope Magnifier									
3x	25 mm	2 MOA Dot	103 ft	28 mm	4.6 in	No	No	Bushnell	**54DX73**

Indoor/ Outdoor Portable Post (PVC)

Indoor Portable Post with Metal Base

Popular Economy Post (PVC)

TENSABARRIER®

Portable Post Crowd Control Barriers

- 38 in H posts

These post barriers help guide customers and pedestrians, informing of entrances and exits to use. Barriers feature SlowRetract technology that ensures slow, safe belt retraction and locking belt ends to prevent accidental release. Extend belt when a barrier is needed; retract when not in use. Belt material is heavy-duty woven polyester. Belts are 2"W x 7½"L.

▶**Please choose:** Select belt options and post color/finish from the tables below.

No Message Belts	Message Belts (Yellow)
▶CHOOSE: Black, Black/Yellow Diagonal Striped, Dark Blue, Dark Green, Red	▶CHOOSE: Caution Do Not Enter, Cleaning in Progress, Danger Keep Out, Out of Service
Wide Webbing No Message Belts	**Wide Webbing Message Belts (Red)**
▶CHOOSE: Black, Black/Yellow Diagonal Striped, Dark Blue, Dark Green, Red	▶CHOOSE: Authorized Access Only, No Entry

Base Type	▶CHOOSE: Post Color/Finish	Base Dia.	Mfr. Model	NO MESSAGE BELT Item No.	WITH MESSAGE BELT Item No.
Indoor/Outdoor Portable Posts (PVC)					
Hexagonal	Black, White, Yellow, Red	19 in	886	D0032	D0033
Hexagonal	Yellow	19 in	886	4GY50 *	—
Indoor Portable Posts					
Standard	Polished Chrome, Satin Chrome	14 in	890	D0009	D0011
Standard	Satin Stainless Steel	14 in	890	D0014	D0015
Basic	Black	14 in	890	6NW01 †	—
Basic	Black, Black Wrinkle,	14 in	890	D0007	—
Slim Profile	Gray, White, Yellow, Red, Blue, Green	14 in	890	—	D0008
Indoor Portable Posts - Double Belt					
Basic	Black, Black Wrinkle, Gray, White, Yellow, Red, Blue, Green	14 in	889	D0016	D0017
Popular Economy Posts (PVC)					
Basic	Red, Yellow, Black, White	14 in	875	D0029	D0031

** Black belt with yellow diagonal stripe. † Black belt with white horizontal stripe.*

40CL16

20YU43

20YU92

Visiontron Corp.

Retracta-Belt Crowd Control Barriers

- 40 in H posts

Guide traffic, mark off hazards and restrict access.

Retracta-Belt are designed to withstand heavy traffic areas. Universal belt-end works with most stanchions and locks to help prevent accidental release. Feature a strong and slow EZ Back brake for added safety and have a built-in rubber floor protectors, ensuring scuff protection.

Retracta-Belt PRIME are economically priced and accommodate medium traffic or less abusive environments. Posts feature EVERstraight Technology: a self-straightening base connection that helps keep the post upright and in place.

Color/Finish	Belt Length	Belt Color	Base Type	Base Dia.	Base Material	Item No.
Barrier Post with Belt						
Retracta-Belt, Indoor						
Yellow	10 ft	Black and Yellow Diagonal Striped	Sloped	14 in	Cast Iron	20YU42
Black	10 ft	Black	Sloped	14 in	Cast Iron	31HH38
Yellow	15 ft	Black and Yellow Diagonal Striped	Sloped	14 in	Cast Iron	20YU07
Black	15 ft	Black	Sloped	14 in	Cast Iron	20YU10
Retracta-Belt, Outdoor						
Yellow	10 ft	Black and Yellow Diagonal Striped	Square	15 in	Recycled Rubber	20YU45
Yellow	15 ft	Black and Yellow Diagonal Striped	Square	15 in	Recycled Rubber	20YU27
Black	30 ft	Red	Standard Heavy Weight	14 in	Cast Iron	40CL77
Yellow	30 ft	Black and Yellow Diagonal Striped	Standard Heavy Weight	14 in	Cast Iron	20YT95
Retracta-Belt Prime, Indoor						
Black	10 ft	Black	Sloped	14 in	Steel and Concrete	40CK59
Polished Stainless Steel	10 ft	Black	Sloped	14 in	Steel and Concrete	40CL06
Black	10 ft	Black/White	Sloped	14 in	Steel and Concrete	40CL16
Black	10 ft	Red	Sloped	14 in	Steel and Concrete	40CL17
Satin Stainless Steel	10 ft	Black	Sloped	14 in	Steel and Concrete	40CL57
Yellow	10 ft	Black and Yellow Diagonal Striped	Sloped	14 in	Steel and Concrete	40CL70
Barrier Post with Belt w/ "Caution - Do Not Enter" Message						
Retracta-Belt, Indoor						
Yellow	10 ft	Yellow with Black Text	Sloped	14 in	Cast Iron	20YU43
Yellow	15 ft	Yellow with Black Text	Sloped	14 in	Cast Iron	20YU08
Retracta-Belt, Outdoor						
Yellow	15 ft	Yellow with Black Text	Square	15 in	Recycled Rubber	20YU28
Yellow	30 ft	Yellow with Black Text	Standard Heavy Weight	14 in	Cast Iron	20YT96

Finish	Belt Length	Belt Color	Mounting Style	Item No.
Wall Mounted Retractable Belt Barrier				
Yellow	10 ft	Black and Yellow Diagonal Striped	Fixed Mounting Plate	20YU92
Black	10 ft	Black	Fixed Mounting Plate	20YV03
Black	15 ft	Yellow	Fixed/Removable Mounting Plate	20YU89
Yellow	20 ft	Black and Yellow Diagonal Striped	Fixed/Removable Mounting Plate	20YU79
Wall Mounted Retractable Belt Barrier w/ "Caution - Do Not Enter" Message				
Black	15 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU87
Yellow	15 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU91
Black	20 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU76
Yellow	20 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU80
Black	30 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU36
Yellow	30 ft	Yellow with Black Text	Fixed/Removable Mounting Plate	20YU40

Model 896

Model 897

TENSABARRIER®

Retractable Belt Barriers

Help restrict access and keep private areas off-limits to crowds. Use with the Tensabarrier Portable Post Crowd Control Barriers (listed above). Belt material is made from heavy-duty woven polyester and is 2"W.

▶**Please choose:** Select belt options and wall unit color/finish from the tables below.

No Message Belts	Message Belts (Yellow)
▶CHOOSE: Black, Blue, Green, Red, Yellow, Yellow/Black Chevron	▶CHOOSE: Caution Do Not Enter, Cleaning in Progress, Danger Keep Out, Out of Service

▶CHOOSE: Color/Finish	Belt Length	Mfr. Model	NO MESSAGE BELT Item No.	WITH MESSAGE BELT Item No.
Belt Barrier — Includes Belt Receiver				
Black, Yellow, Red, Blue, Green	7 ½ ft	896	D0087	D0088
Black, Yellow, Red, Blue, Green	13 ft	896	D0094	D0095
Black, Yellow, Red	15 ft	897	D0103	D0104
Black, Yellow, Red	24 ft	897	D0116	D0117
Black, Yellow, Red	30 ft	897	D0129	D0131
Polished Chrome, Satin Chrome	7 ½ ft	896	D0089	D0091
Polished Chrome, Satin Chrome	13 ft	896	D0096	D0097
Polished Chrome	15 ft	897	D0101	D0102
Polished Chrome	24 ft	897	D0114	D0115
Polished Chrome	30 ft	897	D0127	D0128
Belt Barrier — Include Hose Clamp Mounting and Wire Clip Belt End				
Black, Yellow, Red	15 ft	897	D0109	D0111
Black, Yellow, Red	24 ft	897	D0123	D0124
Black, Yellow, Red	30 ft	897	D0136	D0137
Polished Chrome	15 ft	897	D0107	D0108
Polished Chrome	24 ft	897	D0121	D0122
Polished Chrome	30 ft	897	D0134	D0135

J5949

J5938

J5942

J5946

J5948

Lavi Industries

Retractable Belt Barriers

- Choose belt color: Black, Red, Blue, Yellow/Black or Yellow

Barriers are ideal for temporarily closing or blocking access to aisles, doorways and thresholds.

Description	▶CHOOSE: Belt Message	▶CHOOSE: Finish	Belt Length	Item No.
Plastic Outdoor Posts				
Tempest All-Weather Stanchions	None, Caution - Do Not Enter	Textured	12 ft	J5949 J5951
Aluminum Indoor Posts				
Beltrac 3000 Stanchions	None	Powder Coated, Satin Chrome, Polished Chrome	7 ft	J5955
			13 ft	J5956
Standard Belt Barriers				
Wall Mount	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed	Wrinkle, Satin Aluminum	7 ft	J5938
Magnet Mount				J5939
Wall Mount				J5941
Magnet Mount		Textured, Satin Aluminum	13 ft	J5942
Fixed Mount	Lane Closed	Wrinkle		
Wall Mount	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed		18 ft	J5943
		Wrinkle, Powder Coated	24 ft	J5944
	None	Satin Aluminum	65 ft	J5945
Specialty Belt Barriers				
Concealed Barriers, Fixed Mounting Plate	None, Caution - Do Not Enter, Please Do Not Enter - Temporarily Closed	Satin Aluminum	7 ft	J5940
Warehouse Barriers, Fixed Mount		Powder Coated, Wrinkle	18 ft	J5946
Warehouse Barriers, Quick Mount				J5947
Warehouse Barriers, Fixed/ Removable Mounting Plate				J5948

Portable Barricades

Lightweight, modular polyethylene panels link together with snap-on hinges to create barriers of any size and shape; warn and help keep pedestrians out of hazardous areas. Yellow and black color with standard "Caution" symbol printed on each panel. Fold away for easy storage.

3UTN8

Description	Color	H	L	Item No.
2-Panel Barricade	Yellow	36 in	6 ft	3UTN8
3-Panel Barricade	Yellow	36 in	9 ft	3UTN9

TOUGH GUY

Portable Expanding Barricades

22NY01

33K166

Lightweight, compact plastic barricades expand to do the work of several conventional barricades. Include carrying handles for easy portability. 33K166 links with other barriers for longer spans.

Description	Color	Overall H	Overall L	Item No.
Portable Barricades with Stationary Feet				
Steel Powder Coated Finish	Yellow/Black	37.5 in	136 in	22NY09
Aluminum Powder Coated Finish		37.5 in	136 in	22NY01
Aluminum Powder Coated Finish		48 in	136 in	22NY03
Aluminum Powder Coated Finish		37.5 in	181 in	22NY02
Portable Barricade with 4 Wheels, 2 Are Lockable				
Expandable Barricade	Black/Yellow	37 in	132 in	33K166
Portable Barricade with 16 Panels and 2 Wheels—Tough Guy Brand				
Expandable Barricade	Yellow	40 in	13 ft	2LEB5
Accessories				
Locking Caster Feet, Pkg. of 2				22NY07
Flashing Lamp/Flag Holder				22NY05
Sign Hanging Bracket				22NY04
Wall Mounting Kit				22NY08
Locking Bar				22NY06

Mr. Chain

Crowd Control Barriers

Plastic Chain

Medium-Duty Stanchion

Use to create an effective crowd control/warning barrier. For indoor or outdoor use.

Plastic Chain—Use with stanchions and ground posts for crowd and traffic control. Lightweight chain is strong and durable; UV protectant added to help resist fading.

Medium- and Heavy-Duty Stanchions—Highly visible stanchions provide guidance and safety when controlling crowds and directing traffic.

Ground Posts—Maintenance-free posts are used to outline paths and driveways.

Sign Adapters—Use to attach a sign to a stanchion. Replace ball top with sign adapter. Accommodate signs up to 1⁄16" thick.

S-Hooks—Use to attach a plastic chain in a variety of applications. Each size S-hook corresponds to the matching chain.

Magnet Ring/Carabiner—Easy Lockout Tagout (LOTO) option for use in manufacturing facilities, distribution centers, and retail stores.

Heavy-Duty Stanchion

Size	L	▶CHOOSE: Color	Item No.
Plastic Chain			
¾ in	50 ft	Black, White, Yellow	E1220
1 ½ in	50 ft	Yellow, Safety Orange	K6945
1 ½ in	100 ft	Black, White, Yellow	E1221
1 ½ in	200 ft	Yellow, Red	K6946
1 ½ in	300 ft	Black, White, Yellow	E1224
1 ½ in	300 ft	Yellow, Red, Orange	K6947
1 ½ in	500 ft	Yellow	J1047
2 in	50 ft	Yellow, Safety Orange	K6948
2 in	100 ft	Black, Green, Orange, Red, White, Yellow	E1222
2 in	100 ft	Alternating Magenta/Yellow, Alternating Black/Yellow	K6949
2 in	125 ft	Yellow	33HG06
2 in	160 ft	Yellow	33HG10
2 in	300 ft	Black, Green, Orange, Red, White, Yellow	E1225
2 in	500 ft	Yellow, Red	J1048
3 in	100 ft	Red, Orange, Green, Yellow, White, Black	E1223
3 in	300 ft	Black, Green, Orange, Red, White, Yellow	E1226

Description	H	▶CHOOSE: Color	Item No.	Pkg. Qty.
Stanchions and Ground Posts				
Medium-Duty Stanchion, 2½" Dia.	40 in	Black, Green, Orange, Red, White, Yellow	E1218	6
Medium-Duty Stanchion, 2½ in Dia	40 in	Black and Yellow	3JVA5	6
	40 in	Orange and White	32J514	6
Solar Stanchion 2½ in Dia, Glass Top	40 in	Chrome	39F824	1
Heavy-Duty Stanchion, 3 in Dia	41 in	Orange and White	32J515	4
	41 in	Black, Green, Orange, Red, White, Yellow	E1219	4
Ground Posts, 3 in Dia	27 in	White, Black	G6587	6

Description	▶CHOOSE: Color	Item No.	Pkg. Qty.
Accessories			
Medium-Duty Sign Adapter	Black	3LUT1	6
Heavy-Duty Sign Adapter	Black	3LUT2	6
¾ in S-Hook	Yellow	E1238	10
1½ in S-Hook	Yellow, Black, White	E1239	10
2 in S-Hook	Black, Green, Orange, Red, White, Yellow	E1240	10
3 in S-Hook	Black, Green, Orange, Red, White, Yellow	E1241	10
Snap Reflector	Star White	39F822	6
Magnet Ring/Carabiner Kit	Black	20VG41	2
Magnet Ring/Carabiner Kit and Chain	Black/Yellow	20VG42	1

Warning Posts, Chain, and Chain Links

Polyethylene posts are nonconductive and nonrusting. Chain Links are for indoor use only. Use to attach lengths of warning chain together or repair chain links.

Description	Color	H	Base Dia.	Item No.	Pkg. Qty.
Striped Barrier Post	Black/Yellow	41 ¼ in	15 ⅘ in	33L680	1
Barrier Post	Yellow	41 ¼ in	15 ⅘ in	33L677	1
2 in Plastic Chain, 100 ft	Yellow	—	—	33L678	1
2 in Chain Links	Yellow	—	—	33L679	36

33L680

33L677

Portable Barricade System

Easily assembled with snap hinges. Folds for storage. Includes 4 polypropylene panels (32"W x 34½"H), 2 "Caution" signs, 2 "Confined Space" signs, and 4 orange and white reflective striped boards. Barricade Weight 6RRE1 (sold separately) offers additional panel security.

Description	Color	H	Item No.
Barricade System	Orange	36.61 in	6EGH1
Barricade Weight, 16 lb	Black	—	6RRE1

Safety Barriers

3UTR5

Lightweight, polyethylene barriers are excellent for use in all public spaces. Each comes with 6 interchangeable messages: "Caution—Out Of Service," "Caution—Wet Floor," "Temporarily Closed," "Danger—Keep Out," "Cleaning In Progress," and "Caution—Work Area." Bright yellow color. Stack flat for easy storage. Individual units can be linked together; units with stand can also stand alone.

Description	H	W	Item No.
Police Officer-Shaped With Stand	41 in	31 in	3UTR5
Police Officer-Shaped Without Stand	41 in	31 in	3UTR4

White Top Only
H6507

Orange Top with Reflective Sheeting
H6509

PLASTICADE

Portable ADA Barricade System

H6508

Modular system features tamper-resistant, 2-pc. linking sections: a rugged polyethylene barricade top and a self-weighted base that fit together securely. A straight barrier wall on the pedestrian side reduces tripping hazards. Each assembled section is 40"H x 43"L x 15¼"W and remains stable in windy conditions. Base has an integrated carrying handle. System can be shaped to any layout. ADA Compliant.

Description	▶CHOOSE: Color	Net Weight	Item No.
Barricade Top Only	Orange, White	9 lb	H6507
Barricade Top with Reflective Sheeting	Orange, White	9 lb	H6509
Barricade Top with Base	Orange, White	51 lb	H6508
Barricade Top with Reflective Sheeting and Base	Orange, White	51 lb	H6510
Base with Removable Foot for Ballast	Black	43 lb	20PF47

Metal Detectors

GARRETT METAL DETECTORS · FISHER RESEARCH LABS · BARSKA

10A457

1ZRZ7

1ZRZ8

20KZ01

5ENY7

1ZTA2

5ENY6

49U593

Handheld

10A457, 1ZRZ7, and 1ZRZ8 provide the ultimate sensitive response to metal objects. They are self-calibrating, easy and convenient to use, and offer increased durability. 20KZ01 provides precision locating for all types of metal to safeguard security areas. No tuning required. Features an optimum sensitivity level and allows you to choose between an audio alarm or silent vibrating. Can be used alone or in conjunction with 20KZ03. 20KZ02 is a high-performance detector for all types of metal. Choose between 3 frequencies for less chance of interference. Designed with "momentary low" switch to eliminate interference from steel rebar built into many concrete floors.

Walk-Through

5ENY7, 53DU72, and 53DU73 detect 33 pinpoint zones to precisely identify multiple target locations across the entire body. Feature dual detection transmitters and receivers in each panel, over 20 standard program settings for optimal performance, and superior versatility with selectable settings designed for airports, courthouses, prisons, schools, facilities, special events, mass transit, loss prevention and many other applications. 20KZ03 transports to virtually any location and can be up and running within 5 min. Multizone detector features 100 sensitivity settings and requires only 1 operator. 40-hr. battery life. AC (110V or 220V) or DC power.

Ground Search

1ZTA2 features graphic target ID cursor, Accept/Reject notch for specific target detection and to ignore unwanted items. Designed with electronic pinpoint for easy target recovery. Also features continuous target depth indicator. 8 level sensitivity adjustment. 5ENY6 features increased durability and sensitivity, 360° side scan detection area, a wide range of operating temperatures, and includes woven belt holster. Also features proportional audible alarms and pinpoints targets faster.

Description	Audio Alarm	Indicator	Brand	Mfr. Model	Item No.
Handheld Metal Detectors					
Super Scanner V	Selectable	LED/Audio/Silent Vibrate	Garrett	1165190	10A457
SuperWand	Selectable	LED/Audio/Silent Vibrate	Garrett	1165800	1ZRZ7
THD	Silent Alarm Only	LED/Silent Vibrate	Garrett	1165900	1ZRZ8
Concealed Weapons Detector	Yes	LED	Fisher Research	CW-10	20KZ01
Weapons Detector	Yes	LED	Fisher Research	CW-20	20KZ02
Walk-Through Metal Detectors					
33-Zone, Gray	Tone & Volume Adjustable	LED/LCD	Garrett	1168414	5ENY7
33-Zone, Gray, Zone Indicator Lights on Both Sides	Tone & Volume Adjustable	LED/LCD	Garrett	1168416	53DU72
33-Zone, Gray, ADA Compliant	Tone & Volume Adjustable	LED/LCD	Garrett	1168432	53DU73
M-Scope Portable Walk-Through Metal Detector	Yes	LED	Fisher Research	M-SCOPE 110	20KZ03
Ground Search Metal Detectors					
CSI 250	Tone & Volume Adjustable	LCD/Audio	Garrett	1140070	1ZTA2
CSI Pro Pointer II	Selectable	Audio/Vibrate	Garrett	1166020	5ENY6
Sharp Edition, 2 Modes, Aluminum	Yes	LCD	Barska	BE11922	49U593
Premiere Edition, Underwater, 2 Modes, Aluminum	Yes	Tone	Barska	BE11924	49U594
Pro Edition, Multiple Modes, Aluminum	Yes	Analog	Barska	BE11638	49U595
Elite Edition, Aluminum, 3 Tone Audio	Yes	LCD	Barska	BE11642	49U597
Elite-200 Metal Detector	Yes	LCD	Barska	BE12594	48TK19
Evidence Recovery Metal Detector Kit	Tone & Volume Adjustable	LCD/Audio	Garrett	1140780	43Y787

20AR23

20AR19

48ZV66

48ZV68

LTS
Video Solutions for Security Professionals™

Network IP Video Surveillance Systems

- 1920 x 1080 Camera Resolution
- Fixed Lens

Camera Voltage	Recording Modes	Includes	Item No.
CCTV Kit			
12V DC	Alarm, Continuous, Manual, Motion, Schedule	8CH, 1TB Hard Drive, (4) 100 ft Cable, (4) Dome Cameras, CMS Disk, Mouse, NVR, Power Supply, Remote Control	**20AR23**
	Alarm, Continuous, Manual, Motion, Schedule	8CH, 1TB Hard Drive, (4) 100 ft Cable, (4) Bullet Cameras, CMS Disk, Mouse, NVR, Power Supply, Remote Control	**20AR22**
POE, 12V DC	Alarm, Continuous, Manual, Motion, Schedule	4CH, 1TB Hard Drive, (4) 100 ft Cable, (4) Dome Cameras, CMS Disk, Mouse, NVR, Power Supply, Remote Control	**20AR18**
	Alarm, Continuous, Manual, Motion, Schedule	4CH, 1TB Hard Drive, (4) 100 ft Cable, (4) Bullet Cameras, CMS Disk, Mouse, NVR, Power Supply	**20AR19**
12V DC	Alarm, Continuous, Manual, Motion, Schedule	8CH, 1TB Hard Drive, (8) 100 ft Cable, (8) Dome Cameras, CMS Disk, Mouse, NVR, Power Supply, Remote Control	**20AR20**
	Alarm, Continuous, Manual, Motion, Schedule	8CH, 1TB Hard Drive, (8) 100 ft Cable, (8) Bullet Cameras, CMS Disk, Mouse, NVR, Power Supply, Remote Control	**20AR21**
DVR HD Camera Kit			
12V DC	—	8CH DVR, 2TB Hard Drive, (4) Turret Cameras, 60 ft Cable for Each Camera, Power Adapter and DC Power Splitter	**48ZV66**
	—	8CH DVR, 2TB Hard Drive, (4) Bullet Cameras, Cable, Power Adapter and DC Power Splitter	**48ZV67**
	—	16CH DVR, 3TB Hard Drive, (8) Turret Cameras, 60 ft of Cable, Power Adapter and DC Power Splitter	**48ZV68**

61HY55

56HA11

Swann
Security Made Smarter

VITEK

Analog Video Surveillance Systems

- 12V DC camera voltage
- Fixed lens

Each system includes 4 cameras.

61HY55 variable recording time depends on chosen recording mode. Offers a color, analog display. Sensor lights on cameras are bright enough to enable color video at night up to 32 ft. 3840 x 2160 camera resolution.

56HA11 to 56HA13 TVI technology transmits high definition analog video over a coaxial cable. Include a progressive scanning feature. Weather resistant.

56HA12

Camera Type	Focal Length	Recording Modes	Min. Light Level	Includes	Mount	Item No.
Swann						
Bullet	3.6mm	Heat and Motion Sensor	0.5 Lux@ F2.0 / 0 Lux @ IR LED ON	(4) BNC Cables 60 ft, (4) Pro-4KWLB Security Camera, DVR-5580 8 Channel DVR with 2TB Hard Drive, Ethernet Cable, HDMI Cable, Mounting Screws and Plugs, Mouse, Power Adapter and Splitter, Theft Deterrent Stickers	Wall	**61HY55**
Vitek						
Turret	3.6mm	Manual, Motion, Sensor, Timer	0 Lux (IR On), 0.001 Lux F1.2	4 Channels, 12V DC Power Supply, IR Remote Control, USB Mouse	Ceiling, Wall, or Surface	**56HA11**
Bullet	3.6mm	Manual, Motion, Sensor, Timer	0 Lux (IR On), 0.001 Lux F1.2		Ceiling, Wall, or Surface	**56HA12**
Bullet	2.88mm	—	—	Power Supply	Ceiling, Wall, or Surface	**56HA13**

45LD12

52VK18

49CX56

45AU45

BOSCH speco technologies

Video Cameras

- Power supply not included
- 12VDC

Surface mountable on ceiling or wall.

Type	Lens	Exposure Conditions	Focal Length	Resolution	Min. Light Level	Day/Night Capable	Camera Body Color	Item No.
Bosch								
Analog	Varifocal	Indoor	8.5 to 85 mm	540	0.008 lux	Day/Night	White	**45LD12**
Analog	Varifocal	Indoor	8.5 to 85 mm	540	0.0024 lux	Day/Night	White	**45LD16**
Speco Technologies								
Dome	Auto Iris Varifocal	-4° to 140°F	5 to 50 mm	2 MP	0.001 lux	Day	Dark Gray	**53EL69**
HD-TVI Dome	Auto Iris Varifocal	14° to 122°F	2.8 to 12 mm	2 MP	0.001 lux	Day	Black	**52VK18**
HD-TVI Dome	Auto Iris Varifocal	14° to 122°F	2.8 to 12 mm	2 MP	0.001 lux	Day	White	**52VK19**
HD-TVI Dome	Auto Iris Varifocal	Outdoor	2.8 to 12 mm	2 MP	0.001 lux	—	Dark Gray	**49CX56**
HD-TVI Turret	Fixed	-4° to 140°F	3.6 mm	2 MP	0.001 lux	Day	Dark Gray	**45AU45**

49CX55

45KH72

69YU69

483A81

483A50

speco technologies
VITEK

Day/Night Infrared Video Cameras

- Indoor/outdoor
- 12VDC

Built-in LEDs provide illumination for clearer nighttime images. Weather-resistant construction.

Type	Lens	Exposure Conditions	Focal Length	Resolution	Min. Light Level	Camera Body Color	Item No.
Speco Technologies							
IR Dome	Auto Iris Varifocal	Outdoor	2.8 to 12 mm	1000	0 lux	Dark Gray	**49CX55**
IR WDR Turret	Auto Iris Varifocal	-4° to 140°F	2.8 to 12 mm	1000	0 lux	Dark Gray	**45KH72**
Wide Dynamic Range Traditional	Auto Iris Varifocal	-4° to 140°F	2.8 to 12 mm	2 MP	0.001 lux	Dark Gray	**45AU60**
Turret	Fixed	14° to 120°F	2.9 mm	4 MP	0 lux	Dark Gray	**69YU69**
HD-TVI Turret	Fixed	-4° to 140°F	3.6 mm	2 MP	0.001 lux	Dark Gray	**45AU49**
Vitek							
Bullet	Fixed	-40° to 140°F	2.8 mm	2.1 MP	0.0 lux (IR On)	White	**483A50**
Turret	Fixed	-40° to 140°F	3.6 mm	4 MP	0 lux	White	**483A81**
Turret	Fixed	-40° to 140°F	3.6 mm	5 MP	0 lux	White	**483A83**

With Intensifier   Without Intensifier

53DH62

56AT28

speco technologies

Intensifier Video Cameras

Cameras use an Intensifier chip to amplify extremely low light to produce usable images. Technology creates color images in daylight or at night with true WDR (Wide Dynamic Range) operation. Ceiling, surface or wall mount. Offer progressive scanning. Signal to noise ratio is more than 50 dB. Cameras require a power supply, sold separately. 53DH62 accepts C & CS auto iris & manual type lenses, not included. 56AT27 has presets for different scenarios.

Lens	Focal Length	Line Res.	Min. Light Level	Voltage	L	W	H	Item No.
Bullet Cameras								
—	2.8 to 12 mm	2 MP	0.001 lux	12V DC/24V AC	3 15/32 in	2 ½ in	2 13/64 in	**53DH62**
Auto Iris Varifocal	2.8 to 12 mm	2 MP	0.001 lux	12V DC/24V AC	8 9/32 in	3 61/64 in	3 61/64 in	**45AU56**
Auto Iris Varifocal	5 to 50 mm	2 MP	0.001 lux	12V DC/24V AC	8 9/32 in	3 61/64 in	3 61/64 in	**56AT28**
Dome Camera								
Auto Iris Varifocal	2.8 to 12 mm	1000 TVL	0.0001 lux	12V DC/24V AC	4 47/64 in	4 47/64 in	3 23/64 in	**45EJ80**
Mini-Board Camera								
Fixed	3.6 mm	2 MP	0.01 lux	12V DC	1 3/16 in	1 11/32 in	1 11/32 in	**56AT27**

Output Voltage	Input Voltage	Characteristics	For Use With	L	W	H	Item No.
Camera Power Supplies							
12V DC	120V AC	Provides 1000mA @ 12 V DC, 60 HZ	12 V DC Cameras	4 in	3 ½ in	1 ½ in	**6LU85**
24V AC	120V AC 60 Hz	Provides 50VA @ 24 V AC, 60 HZ	24 V AC Cameras	4 in	3 in	3 in	**6LU84**

45EJ80

56AT27

Cobra®

Dash Cam Recorder

- 64 GB external memory

This vehicle interior surveillance system is designed to continuously record the view through a vehicle's windshield, can be attached to the inside of the windshield or on the dashboard. Connects to the Cobra iRadar app to warn of upcoming issues. Offers up to 120 second pre-event recording time. Operates in covert or stand-by mode. Includes adhesive mount, 16 GB micro SD card, micro USB data cable, micro USB power cable, power adapter, rear camera extender cable, and Y-cable.

Res.	Field of View	Min. Light Level	Frame Rate	Video Compression Format	Item No.
1920 x 1080 Pixels, 720 x 480 Pixels	130° Rear Camera, 160° Front Camera	0 Lux	30 fps	H.264	**54XV15**

TRIPLETT Test Equipment & Tools

Video Surveillance Testers

- Color display
- Heavy duty plastic body material

Portable IP and HD camera testers are also known as CCTV field monitors, LCD field monitors, or IP camera testing equipment. They're designed to troubleshoot problems and speed the on-site installation and maintenance of security video monitoring systems. 12V DC @ 2A power supply. 448G56 has one camera input, 55ED96 offers 2.

448G56

55ED96

Color	Connector Type	Display Type	Features	Power Source	Includes	Item No.
Black/Red	2.5mm Barrel, 3.5mm Stereo, BNC, Mini USB, RJ45, RS485	TFT	Automatically Identifies Type of Encoding, Built-In Bright Flashlight, Capture Both Screenshots and Video, Data Monitoring, Full QWERTY Keyboard Built-In Digital Data-Logging Multimeter, Performs Analog Testing for Up to 8 MP Camera, Rechargeable, Supports Frame-By-Frame or Streaming Playback	Lithium Battery Pack	Carrying Case, Lanyard, Network/BNC/RS485/USB/ Audio Input Cable, PoE Power Injector, Power Output Cable, Test Leads	**448G56**
Gray/Red	Audio, BNC, Ethernet, HDMI, Micro USB, RS485	7 in Touchscreen	Dual LED Flashlight, WiFi Spectrum Test	AC Power Adapter, Lithium-Ion Battery	(2) Batteries, AC Adapter, Audio Cable, BNC Cable, BNC Connector, Camera Power Cable, Carrying Case, Ethernet Cable, Micro USB to USB Cable, Protective Holster Lanyard, RS485 Cable with Screw Terminal	**55ED96**

45LA54

45LC60

53UK38

498X34

56GY36

BOSCH LTS speco technologies VITEK

Network IP Video Cameras

Use for installations where a wide area or multiple areas need monitoring, or a large number of cameras are required. Cameras don't require multiple cables for hook up, can use existing network infrastructure, and allow centralization of security for data storage. Ideal where video needs to be viewable by multiple users in multiple locations. Allow mobile access via iPhone and Android devices. Megapixel IP cameras provide more detail than traditional analog models. Feature higher resolution to improve camera zoom on live view and playback. Can transmit large data files and allow bandwidth throttling where the camera uses the bandwidth needed to transmit data, then throttles back to a lower preset bandwidth when there is no event to record. RJ45 connector.

Line Res.	Lens	Focal Length	Mount	Min. Light Level	Day/Night Capable	Camera Body Color	Item No.
Bosch							
Bullet							
2 MP	Varifocal	10.00 to 23.00 mm	Wall	0 lux	Day/Night	White	**45LA54**
Miniature Dome							
2 MP	Fixed	2.50 mm	Surface	1.0 lux	Day	White	**45LC55**
2 MP	Fixed	2.50 mm	Interior Vehicle	1.0 lux	Day	White	**45LC56**
2 MP	Fixed	3.60 mm	Surface	0.4 lux	Day	White	**45LC57**
5 MP	Fixed	3.60 mm	Surface	0.8 lux	Day	White	**45LC60**
LTS							
Bullet							
2 MP	Motorized Varifocal	8.00 to 20.00 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	White	**53UK51**
4 MP	Motorized Varifocal	2.80 to 12.00 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	White	**53UK45**
Dome							
4 MP	Motorized Varifocal	2.80 to 12.00 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	White	**53UK38**
4 MP	Fixed	2.80 to 12.00 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	White	**53UK42**
Speco Technologies							
Bullet							
2 MP	Fixed	3.60 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	Dark Gray	**498X34**
2 MP	Fixed	3.70 mm	Ceiling, Surface, Wall	0.12 lux	Day	Dark Gray	**415K02**
Dome							
2 MP	Fixed	3.60 mm	Ceiling, Surface, Wall	0.0 lux	Day/Night	White	**498X33**
Vitek							
Bullet							
4K	Fixed	2.80 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA23**
4K	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA24**
5 MP	Fixed	2.80 mm	—	0 lux	Day/Night	White	**56GY35**
5 MP	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux	Day/Night	White	**56GY38**
Dome							
4K	Fixed	2.80 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA25**
4K	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA26**
5 MP	Fixed	2.80 mm	—	0 lux	Day/Night	White	**56GY37**
5 MP	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux	Day/Night	Dark Gray	**56GY41**
5 MP	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux	Day/Night	White	**56GY40**
Turret							
4K	Fixed	2.80 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA21**
4K	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux IR On, 0.11 Lux F2.2	Day/Night	White	**56HA22**
5 MP	Fixed	2.80 mm	—	0 lux	Day/Night	White	**56GY36**
5 MP	Motorized Varifocal	2.80 to 12.00 mm	—	0 lux	Day/Night	White	**56GY39**

40CN82

53UK20

52PF25

LTS VIVOTEK A Delta Group Company

Network IP Video Recorders (NVRs)

NVR is a software program that records video in a digital format to a USB flash drive, SD memory card, or other mass storage device. NVRs are similar to DVRs, but NVRs take video input over a network, as opposed to directly connecting to the NVR via a capture card or tuner. The video is streamed to the NVR for storage or remote viewing. An NVR contains no dedicated video capture hardware. Before installing an NVR, determine if the NVR software will run on a workstation or if a server is required.

No. of IP Camera Inputs	Included Hard Drive Size	Video Export Function	H	W	D	Item No.
LTS						
4	—	Network, USB	1 51⁄64 in	12 13⁄32 in	9 7⁄64 in	**40CN82**
8	—	Network, USB	1 51⁄64 in	17 ½ in	11 13⁄32 in	**40CN89**
16	1 TB	External HDD, Network, USB Flash Drive	1 51⁄64 in	17 ½ in	11 13⁄32 in	**53UK20**
Vivotek						
8	1 TB	eSATA, USB	2 61⁄64 in	12 13⁄32 in	8 43⁄64 in	**45LJ95**
8	3 TB	eSATA, USB	2 61⁄64 in	14 3⁄16 in	12 ¼ in	**45LK01**
16	2 TB	External HDD, Network, USB	1 47⁄64 in	12 15⁄64 in	14 11⁄64 in	**52PF22**
32	—	External HDD, Network, USB	3 ½ in	17 13⁄64 in	25 33⁄64 in	**52PF26**
64	—	External HDD, Network, USB	3 ½ in	17 13⁄64 in	25 33⁄64 in	**52PF25**

BOSCH

Digital Video Recorders (DVRs)

- 100 to 240VAC
- USB export function

Recorders are for use with IP video cameras. They can help law enforcement and security agencies identify suspected lawbreakers on the highway, in a convenience store, in your business and anywhere else CCTV cameras are installed. They can also help deter crime. RAID-5 protected (standard configuration), all-in-one recording solution for up to 128 channels. Rack mount units have 6 USB ports.

Storage Capacity	H	W	D	Item No.
8 x 3 TB	3 ½ in	25 ½ in	25 ½ in	**52YP57**
None	3 ½ in	25 ½ in	25 ½ in	**52YP58**
4 x 4 TB	3 ½ in	25 ½ in	25 ½ in	**52YP59**

52YP57

52YP58

LTS InVid Tech

53UK32

53UK33

Hybrid Video Recorders

These recorders allow you to have both analog and IP systems running at the same time on the same system. This technology is a great addition to an already established security system for your business or facility. This enables you to upgrade your surveillance system to IP equipment at your own pace, according to your budget.

53UK32 and 53UK33—Include central management software disk and power supply. Resolution: 1024x768P @60Hz, 1280x1024P @60Hz, 1280x720P @60Hz, 1920x1080P @60Hz.

61KR70 to 61KR86—Include central management software disk, mouse, power cord, power supply, remote, remote control, and SATA cables. Resolution: Analog Channel: 5MP Lite@10 fps , 4MP Lite/1080P@ 15 fps (NTSC) 1080P Lite/720P/WD1/D1@/30 fps (NTSC). IP Channel: 30 fps (NTSC)

61KR70

61KR74

No. of Analog Camera Inputs	No. of IP Camera Inputs	Included Hard Drive Size	Max. Frames per Second	Power Req.	Video Compression Format	Video Export Function	Recording Modes	H	W	D	Item No.
LTS											
4	4	1 TB	30 fps	12V DC	H.264	Network, USB	Continuous, Motion, Schedule	4 in	20 in	4 in	**53UK32**
8	8	1 TB	30 fps	12V DC	H.264			4 in	20 in	4 in	**53UK33**
Invid Tech											
4	2	2 TB	120 fps	12V DC @ 2 A	H265/H264	External HDD, Internal HDD, Network, USB	Continuous, Motion, Schedule, Continuous, Schedule, Smart Recording	45 mm	249 mm	249 mm	**61KR73**
4	2	4 TB	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR77**
4	2	6 TB	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR80**
4	2	8 TB	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR82**
4	2	500 GB	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR72**
4	2	—	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR70**
8	4	2 TB	240 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR75**
8	4	4 TB	120 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR78**
8	4	8 TB	240 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR83**
8	4	—	240 fps	12V DC @ 2 A	H265/H264			45 mm	249 mm	249 mm	**61KR71**
16	8	2 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR76**
16	8	4 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR79**
16	8	6 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR81**
16	8	8 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR84**
16	8	12 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR85**
16	8	16 TB	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	268 mm	**61KR86**
16	8	—	480 fps	12V DC @ 4 A	H265/H264			45 mm	268 mm	249 mm	**61KR74**

speco technologies BOSCH LTS

Video Surveillance Pan-Tilt-Zoom Controllers

Security camera controllers allow you to manage a number of surveillance cameras. They're compatible with many video management systems and designed to control pan–tilt–zoom cameras (also known as PTZ cameras) capable of remote directional and zoom control.

Description	Camera Inputs	Display Type	Power Supply	Brand	Item No.
Keyboard Controller	32	Speed Dome	Included	Speco Technologies	**36K084**
Digital Keyboard	—	—	350 mA	Bosch	**45LA11**
PTZ Keyboard	Variable	LCD	12V DC	LTS	**48ZV55**
PTZ Joystick/Keyboard	Variable	LCD	12V DC @ 0.5A	LTS	**404N51**

36K084

45LA11

48ZV55

404N51

Scan. Order. Done.
Details on page A1.

33RL98

6LU93

34KJ75

34KJ67

TATUNG speco technologies

Video Surveillance Monitors

Universal monitors for use with security cameras, network video cameras, DVRs, quad splitters, multiplexers, and other video devices.

Speco LED Color Monitors—Feature full high-definition LED panels with multiple inputs including VGA, AV, USB, and HDMI. Designed for 24/7 applications with standard vesa pattern on the back for wall mounting. Includes built-in speakers.

Portable LCD Color Test Monitor—Headphone jack allows audio testing. Video/audio connector: RCA with BNC plug adapter. Includes 12VDC power supply, 4-hr. rechargeable battery, charger, video cable, and carrying case.

LED with VGA and BNC Output—19-in. flat-panel screen features backlit LCD and built-in stereo speakers. Required for high-resolution surveillance. Includes regulated 12VDC, 5A power supply. VESA compatible.

- Display up to 16.7 million colors
- VGA (D-Sub 15 pins) and BNC video output

Screen Size	Line Resolution	H	W	D	Cabinet Color	Brand	Item No.
LED Color Monitors with VGA							
17 in	1280 x 1024	13 29⁄32 in	14 39⁄64 in	16 5⁄16 in	Black	Speco Technologies	**33RL98**
19 in	1920 x 1080	13 45⁄64 in	17 13⁄32 in	2 13⁄64 in	Black	Speco Technologies	**33RL97**
21 ½ in	1920 x 1080	16 13⁄64 in	20 5⁄16 in	2 13⁄32 in	Black	Speco Technologies	**33RL96**
Portable LCD Color Test Monitor							
4 in	480 x 234	5 ¼ in	6 in	3 in	Black	Speco Technologies	**6LU93**
LED Color Monitors with VGA and BNC							
17 in	1280 x 1024	15 23⁄64 in	15 ½ in	2 49⁄64 in	Black	Tatung	**34KJ75**
19 in	1366 x 768	14 3⁄16 in	18 ½ in	1 ½ in	Black	Tatung	**34KJ73**
21 ½ in	1920 x 1080	15 19⁄64 in	21 1⁄16 in	1 ½ in	Black	Tatung	**34KJ72**
24 in	1920 x 1080	14 ¾ in	22 3⁄16 in	2 in	Black	Tatung	**34KJ71**
32 in	1920 x 1080	20 ¼ in	29 in	2 43⁄64 in	Black	Tatung	**34KJ70**
43 in	1920 x 1080	25 in	38 3⁄16 in	3 in	Black	Tatung	**34KJ68**
50 in	1920 x 1080	29 in	44 11⁄16 in	3 in	Black	Tatung	**34KJ67**

Edwards Signaling NAPCO

Fire Alarm Power Boosters and Accessories

Power booster panels have a self-contained 24VDC power supply to augment fire alarm panel power requirements, and 4 independent Notificiation Appliance Circuits.

ACCESSORIES

Digital Communicator—Acts as a modem to allow communication via a phone line from the control panel to a third-party monitoring service. LCD.

Remote Relay Module—Equipped with 5 form C relays rated at 1A, 30VDC each. May be programmed as zone relays or common system relays for alarm, trouble, supervisory, power, and monitor.

Remote System and Zone Indicators—Mount separately in a single-gang outlet box and display system or zone status in a location remote from the main panel. Remote System and Remote Zone Indicators can be mounted together using the multigang faceplates (sold separately).

Reverse Polarity Module—Interfaces with a reverse polarity receiver to provide communication to an off-site monitoring system.

City Tie Module—Allows the fire alarm control panel to communicate with the fire station.

1EXY3

Current Cap./Panel	H	W	Color	Mfr. Model	Brand	Item No.
Power Boosters						
6.5 A	17 in	13 in	Red	EBPS6A	Edwards Signaling	**1EXY3**
10.0 A	17 in	13 in	Red	EBPS10A	Edwards Signaling	**1EXY4**

Description	For Use With	Mfr. Model	Brand	Item No.
Gate Operator Accessories				
12V, 7AH Battery	E-FSC302R, E-FSC502R	2UKJ4	—	**2UKJ4**
Accessories				
12V, 10AH Battery	1EXY2	12V10A	Edwards Signaling	**1EXZ7**
Digital Communicator	E-FSC1004R, E-FSC502R, Mfr. No. E-FSC302R	F-DACT	Edwards Signaling	**1EXZ1**
Remote Relay Module	E-FSC1004R, E-FSC502R, Mfr. No. E-FSC302R	FSRRM24	Edwards Signaling	**1EXZ2**
Remote System Indicator	E-FSC1004R, E-FSC502R, Mfr. No. E-FSC302R	FSRSI	Edwards Signaling	**1EXZ3**
Remote Zone Indicator	E-FSC1004R, E-FSC502R, Mfr. No. E-FSC302R	FSRZI-A	Edwards Signaling	**1EXZ4**
Double Gang Faceplate	1EXZ3, 1EXZ4	FSAT2	Edwards Signaling	**1EXY8**
Triple Gang Faceplate	1EXZ3, 1EXZ4	FSAT3	Edwards Signaling	**1EXY9**
Reverse Polarity Module, 200mA @ 24VDC	1EXW9, 1EXY1, 1EXY2	RPM	Edwards Signaling	**1EXZ5**
City Tie Module	1EXW9,1EXY1	CTM	Edwards Signaling	**13T102**
Annunciator Keypad	Mfr. No. MA3000	CF3000LCDE	Napco	**54TR75**
Phone Line Module	—	CF5530	Napco	**54TR76**
Fire Relay Module	—	FT2200	Napco	**54TR77**
Fire Relay Module	—	FT279	Napco	**54TR78**
Reversing Relay Module	FW-2S Smoke Detector	FW-RM1	Napco	**54TR81**
Battery Harness	—	RBAT-H1	Napco	**54TR86**
Battery Jumper	—	RBAT-H2	Napco	**54TR87**
Universal Keypad Surface	—	RPB-3-RED	Napco	**54TR88**

Edwards Signaling NAPCO

Fire Alarm Initiating Devices

When activated, devices send signals on a hard-wired connection to initiate an alarm.

PULL STATIONS

Dual-action pull stations prevent accidental alarm activation. Replaceable glass indicates when a station has been activated.

Weatherproof—NEMA 4X rated.

HEAT DETECTORS

- Contact rating: 3A at 125VAC, 1A at 28VDC, 0.3A at 125VDC, 0.1A at 250VDC
- 2500 sq. ft. coverage

Rate of rise: Temperature increase at the sensor of 15°F (9°C) or more per minute activates the rate-of-rise feature; self-restoring.

Fixed temperature: If temperature of the center disk rises to the sensor's rated temperature, the fixed temperature element activates. Nonrestorable and nonreusable. Once activated, the detector must be replaced.

Weatherproof—For indoor or outdoor use.

Explosionproof—For installation in hazardous locations; indoor use only. Rated for Div. 1 and 2.

SMOKE DETECTORS

- Operating voltage: 8.5VDC to 33VDC

LEDs on units give visual indication of alarm activation. Include test switch.

Photoelectric—Units detect dark or thick smoke. Respond quickly to slow smoldering, high-smoke fires.

Smoke Detectors, Air Sampling—Central detection units draw air from a protected area and monitor the stream for the presence of smoke and other products of combustion. Ideal for mission critical settings and hostile environments.

AIR DUCT SMOKE DETECTORS

- Operating voltage: 24VAC/VDC or 120/240VAC

Activate when combustion particles exceed 2.3% per ft. in air moving at 100 fpm to 4000 fpm. Match the air duct size to the appropriate air sampling tube. Remote Test/Reset Station 1EYC1 (sold separately) easily monitors difficult-to-access duct smoke detectors.

5KDF0

16X271

1EYB5

Description	H (in.)	L (in.)	D (in.)	Brand	Mfr. Model	Item No.
Weatherproof Pull Stations						
Single-Action, Pull, Tool Reset	4 ¾ in	3 ¹⁄₁₆ in	3 in	Edwards Signaling	MPSR1-SHTW-GE	**5KDF1**
Single-Action, Pull, Key Reset	4 ¾ in	3 ¹⁄₁₆ in	3 in	Edwards Signaling	MPSR1-S45W-GE	**5KDF0**
Replacement Glass for Pull Stations						
For 1EYC6, 16X263, 16X261, 16X260	⅛ in	2 in	⅛ in	Edwards Signaling	270-GLR	**1EYC7**
For 1EYC9 and 1EYD1	⅛ in	3 in	⅛ in	Edwards Signaling	276-GLR	**1EYC8**
For use on MPSR Pull Stations	—	3 in	—	Edwards Signaling	MPSRGR10	**13T113**
Heat Detectors						
135°F, Rate Compensation, Tubular	4 ¼ in	2 ¹⁄₁₆ in	2 ¹⁄₁₆ in	Edwards Signaling	302-135	**16X271**
194°F, Rate Compensation, Tubular	4 ¼ in	2 ¹⁄₁₆ in	2 ¹⁄₁₆ in	Edwards Signaling	302-194	**16X272**
Weatherproof Heat Detectors						
135°F, Rate Compensation, Tubular	4 ⅛ in	2 ¹⁄₁₆ in	2 ¹⁄₁₆ in	Edwards Signaling	302-AW-135	**16X273**
194°F, Rate Compensation, Tubular	4 ⅛ in	2 ¹⁄₁₆ in	2 ¹⁄₁₆ in	Edwards Signaling	302-AW-194	**16X274**
Explosionproof Heat Detectors						
135°F, Rate Compensation, Tubular	4 ¼ in	1 in	1 in	Edwards Signaling	302-EPM-135	**16X275**
194°F, Rate Compensation, Tubular	4 ¼ in	1 in	1 in	Edwards Signaling	302-EPM-194	**16X276**
Smoke Detectors						
Photoelectric with Sounder	2 in	—	—	Edwards Signaling	521NCSXT	**13T101**
Photoelectrical Sounder	6 ½ in	6 ½ in	5 in	Napco	FW-2S	**54TR80**
(2) Heat Wires	6 ½ in	6 ½ in	5 in	Napco	FW2-H	**54TR82**
Air Duct Smoke Detector						
Photoelectric	5 ⁷⁄₁₆ in	14 ½ in	1 ⅞ in	Edwards Signaling	SD-4WJ	**1EYB5**

For Use With	Brand	Item No.
Accessories		
For Air Duct Width up to 2 ft.	Edwards Signaling	**1EYB7**
For Air Duct Width up to 3½ ft.	Edwards Signaling	**1EYB8**
For Air Duct Width up to 6½ ft.	Edwards Signaling	**1EYB9**
For Edwards Signaling Brand No. 1EYB5	Edwards Signaling	**1EYC1**

5KDG2

5KDF9

21HN50

5KDF7

Edwards Signaling SYSTEM SENSOR

Fire Alarm Output Devices

Signals are hardwired from a control panel (sold separately).

Bell and Chime Strobe—Use Fire Bell and Horn for audible signaling of a fire. Use Chimes in private areas where attendant will take necessary action. For loud areas and where occupants use hearing protection or are hearing impaired. For indoor applications.

Outdoor Horn Strobe—Use strobe with an installed fire alarm panel and detection devices. For outdoor applications. Must be installed with Weatherproof Back Box No. 5KDF8, available on Grainger.com®.

							Red		White	
Mounting	Max. Alarm Current	Flash (Candela)	Peak Output (dBA)	Voltage	W	Brand	Mfr. Model	Item No.	Mfr. Model	Item No.
Bell										
Wall	—	—	85 dB	24V AC	6 in	Wheelock	CN121062	**38GU98**	—	—
Wall	—	—	85 dB	115V AC	6 in	Wheelock	CN121063	**38GU99**	—	—
Wall	—	—	88 dB	115V AC	10 in	Wheelock	CN121065	**38GV02**	—	—
Chime Strobe										
Flush or Surface	154 to 383mA FWR, 99 to 277mA DC	15/30/75/110	78.6	24V DC, FWR		Edwards Signaling	EG1F-CVM	**16X348**	EG1-CVM	**16X346**
—	99 to 277mA DC, 154 to 383mA FWR	15/30/75/110	78.6	24V DC	2 ¾ in	Edwards Signaling	EG1-CVM	**1EYA6**	—	—
Flush or Surface	154 to 383mA FWR, 99 to 277mA DC	15/30/75/110	78.6	24V DC, FWR		Edwards Signaling	—	—	EG1F-CVM	**16X347**
Hazardous Location Horn Diode Polarized										
—	.16A	—	97	20 to 24V DC	7 5/16 in	Edwards Signaling	889D-AW	**5KDG2**	—	—
Horn										
Surface or Flush	40mA	—	85	24V DC		Edwards Signaling	2447TH	**13T110**	—	—
Surface or Flush	40mA	—	85	24V DC, FWR		Edwards Signaling	—	—	2447TH	**16X256**
Wall	10 to 29mA DC	—	80	12 to 24V	2 ⅞ in	System Sensor	—	—	MHW	**21HN42**
Wall	—	—	70 to 88dB, 88 to 99dB	12 to 24V DC	5.25 in	Wheelock	CN121067	**38GV03**	CN121068	**38GV04**
Wall	—	—	99 dB	12 to 24V DC	4.5 in	Wheelock	CN121091	**38GV28**	CN121092	**38GV29**
Horn Strobe										
—	0.190	15/75	85	24V DC	5 ½ in	Edwards Signaling	2452THS-15/75-R	**5KDF9**	—	—
—	0.369	110	85	24V DC	5 ½ in	Edwards Signaling	2452THS-110-R	**5KDG0**	—	—
Wall	—	—	99 dB	12 to 24V DC	4.5 in	Wheelock	CN121083	**38GV20**	—	—
Ceiling	—	—	99 dB	12 to 24V DC	6.6875 in	Wheelock	CN121087	**38GV24**	CN121089	**38GV26**
Outdoor Horn Strobe										
Wall	272 a 355mA CD	15/30/75/95/110/115	99	120V AC	5 ⅛ in	System Sensor	P2RHK-120	**21HN50**	—	—
Wall	88mA to 218mA (DC Max)	15 to 115 Selectable	88	12 to 24V DC	4 ¾ in	System Sensor	P2RK	**14N225**	—	—
Outdoor Wall Horn										
Wall	207 to 286mA DC	—	101	12 to 24V	4 11/16 in	System Sensor	HRK	**21HN51**	—	—
Speaker										
Ceiling	—	—	87 dB	25/70 Vrms	7.2656 in	Wheelock	—	—	CN121078	**38GV15**
Speaker Strobe										
Ceiling	—	—	87 dB	25/70 Vrms	7.2656 in	Wheelock	—	—	CN121082	**38GV19**
Strobe										
—	150mA DC, 210mA FWR	15/75		24V DC	4 ½ in	Edwards Signaling	CS405-7A-T	**5KDF7**	—	—
Wall	—	—		12 to 24V DC	4 ½ in	Wheelock	CN121084	**38GV21**	—	—
Surface Box										
Surface	—	—		—		Edwards Signaling	2459-SMB	**16X257**	2459-SMB	**16X258**
Trim Plate										
—	—	—	—	24V DC	4 15/16 in	Edwards Signaling	EG1RT	**1EYB2**	—	—
Weatherproof Box										
Surface	—	—		—		Edwards Signaling	2459-WPB	**13T114**	2459-WPB	**16X259**

54TR41

NAPCO

Intrusion System Control Panels

- Up to 16 user codes
- Supports up to 7 keypads
- EZ Programming at keypad
- 256 event logging

Gemini hybrid controls feature multiplex expandability using built-in EZMs in custom alpha keypads or 8-zone expansion modules.

Item	For Use With	Mfr. Model	Item No.
Hybrid Wireless Control Panel	—	GEM-SS311PAK	**54TR40**
Panel Pack	Gemini Series RP1CAE2	816PREMPAK	**54TR28**
Control Panel	Mfr. No. GEM-RP1CAE2	GEMP1632INTROPK	**54TR41**

Covers for Fire Alarm Devices

Safety Technology International

Surface-mount models include a conduit spacer and are designed to cover devices mounted to an electrical gang box.

Indoor/Outdoor Pull Station Covers—Deter malicious and accidental fire alarms without restricting legitimate alarms. Covers with alarms have a 95/105dB selectable horn that activates when cover is opened.

Horn/Strobe Covers—Help protect strobes and horn/strobes from damage and vandalism. Horn/Strobe Covers have sound openings.

1DPD7

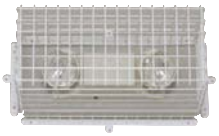
2KFK3

2KFK7

1DPE2

Description	FLUSH MOUNT H	W	D	Mfr. Model	Item No.	SURFACE MOUNT H	W	D	Mfr. Model	Item No.
Indoor Pull Station Covers										
With Alarm	8 ⅞ in	6 13⁄16 in	3 3⁄16 in	STI-1100	**1DPD7**	8 ⅞ in	6 13⁄16 in	5 3⁄16 in	STI-1130	**2KFK3**
Without Alarm	8 9⁄64 in	5 13⁄32 in	4 in	STI-13020FR	**34D123**	5 7⁄16 in	4 29⁄32 in	3 57⁄64 in	STI-13220FR	**45YP78**
Without Alarm	8 ⅞ in	6 13⁄16 in	3 3⁄16 in	STI-1200	**1DPD6**	8 ⅞ in	6 13⁄16 in	5 3⁄16 in	STI-1230	**2KFK4**
Indoor/Outdoor Pull Station Covers										
With Alarm	8 5⁄32 in	5 7⁄16 in	2 21⁄32 in	STI-13020NR	**5AFY1**	8 5⁄32 in	5 7⁄16 in	4 in	STI-13220NR	**5AFY2**
Without Alarm	8 5⁄32 in	5 7⁄16 in	2 21⁄32 in	STI-13000NC	**5AFX7**	8 5⁄32 in	5 7⁄16 in	4 in	STI-13200NC	**5AFY4**
Without Alarm, Fire Label	8 5⁄32 in	5 7⁄16 in	2 21⁄32 in	STI-13010FR	**5AFX8**	8 5⁄32 in	5 7⁄16 in	4 in	STI-13210FR	**5AFX9**
Without Alarm	8 ⅞ in	6 13⁄16 in	3 3⁄16 in	STI-1250	**2KFK7**	10 13⁄64 in	7 13⁄64 in	5 ½ in	STI-3150	**2KFK5**
Horn/Strobe Covers										
Polycarbonate	8 ½ in	6 ½ in	4 in	STI-1210E	**1DPE2**	8 ½ in	6 ½ in	5 ¾ in	STI-1210D	**1DPD9**
Accessory for Pull Station Covers										
2" Conduit Spacer										**1DPD8**

8C245



8C246

9EKC8

Safety Technology International

Wire Covers

Help protect fire bells, clocks, beacons, and other devices from damage and vandalism. 3FVP5 is compatible with low-profile and flush-mount units.

Color	H	W	D	Item No.
Rectangle Covers				
White	10½"	13¾"	2¾"	**8C245**
White	10¾"	26¾"	11¼"	**8C246**
White	7 ¾ in	6 in	6 in	**9EKC8**
White	7 in	5 ¾ in	4 ½ in	**3FVP5**
White	7 ⅓ in	6 ⅛ in	3 ⅓ in	**16D841**
White	7 ½ in	6 ¾ in	6 ⅛ in	**16D843**
Red	7 ½ in	6 ¾ in	6 ⅛ in	**16D844**
Octagonal Covers				
White	16 ½ in	16 ½ in	6 in	**4AFZ9**

Exit Stopper®

REX PLUS® Electronic Watchdog

Audible Entry and Exit Alarms

ALARMS

Exit Stopper®—In Exit Alarm mode, alarm can be set to sound for 30 sec., 3 min., or indefinitely. In Annunciator mode, detector announces door entry. Select 15-sec. entry delay or immediate alarm. Warning horn can be set to 95 or 105dB.

Wireless Alarm Kit—REX PLUS® Electronic Watchdog detects movement in a selected indoor location. Features 4 selectable sounds: continuous rain forest, barking sound of an attack dog, rain forest sound to announce visitors, barking dog for 15 to 20 sec. then a continuous siren. Detects movement through walls, doors, and glass. Variable sensitivity (up to 30 ft.) plus a volume control. 110VAC.

Safety Technology International

ACCESSORIES

8-Channel Receiver No. 16D856 helps monitor up to 4 devices. Features a distinct beep and tone for each of the 4 devices. Latching memory LED (flashes until reset). Use with No.16D849 Add-on Wireless Exit Stopper®. No. 16D849 emits an ear piercing alarm when exit door is opened. Alarm announces door entry with a set of 10 beeps. Detects both unauthorized exits and entries.

Description	Color	Item No.
Exit Stopper®		
Exit Stopper®	Red	**1DPE1**
Exit Stopper®, Double Door	Red	**3JYV9**
Exit Stopper® with Remote Horn Alarm	Red	**3JYW2**
Wireless Alarm Kit		
REX PLUS® Electronic Watchdog	Light Blue	**1DPF3**
Accessories		
8-Channel Receiver	White	**16D856**
Add-On Wireless Exit Stopper®	Red	**16D849**

Safety Technology International

Wireless Entrance and Exit Announcers

Reduce surprise visits and missed deliveries with exit and entrance announcers.

Photoelectric Door Announcer—Activated when an individual passes between a photo beam and a reflector. Can be programmed to sound an alert or chime.

Combination PIR and Magnetic Contact Door and Entrance Alerts—Magnetic contacts activate chime/alarm when door or window is opened. Wireless chimes are compatible, sold separately.

38XL85

38XL86

Description	Mfr. Model	Item No.
Photoelectric Door Announcer		
Doorbell Chime w/Receiver	STI-3350G	**38XL84**
Combination PIR/Magnetic Contact Entry Alert Chime		
Entry Alert Chime w/Receiver	STI-3360G	**38XL85**
Combination Passive Infrared (PIR) and Magnetic Contact Door and Entrance Alerts		
Motion-Activated Chime w/Recvr	STI-3610G	**38XL86**
Doorbell Extender w/Receiver	STI-3300	**38XL91**
Chime Receiver	STI-3353	**38XL87**
Entry Alert Sensor	STI-3551	**38XL88**
Motion-Activated Sensor	STI-3601	**38XL89**
Doorbell Chime Sensor	STI-3301	**38XL90**

2EXU5

2EXV4

Magnetic Contacts

- Vertical or horizontal mount; hardware included

Low-current magnetic contacts send a signal to an alarm or a supervised monitoring system when the door magnet moves away from the frame magnet. A gap between the contacts compensates for ill-fitting doors and windows opened for ventilation. Aluminum switches are sealed airtight to resist corrosion. 2EXV4 mounts directly to the track or channel of an overhead door.

Loop Configuration	Max. Gap Distance (in.)	Lead Size	L (in.)	W (in.)	H (in.)	Max. Voltage	Item No.
Surface-Mounted—Aluminum							
Open or Closed	1 ¼ in	#22 AWG	⅝ in	2 in	⅜ in	30V DC/V AC	**2EXU5**
Open or Closed	1 ¼ in	#22 AWG Armored Cable	⅝ in	2 in	⅜ in	30V DC/V AC	**2EXU6**
Surface-Mounted—Plastic							
Closed	1 13⁄64 in	#6 Screw	9⁄16 in	2 in	½ in	100V DC/V AC	**2EXT7**
Surface-Mounted for Overhead Doors—Aluminum							
Closed	2 ⅗ in	#22 AWG Armored Cable	1 ½ in	4 3⁄16 in	⅜ in	100V DC/V AC	**2EXV4**

Fasteners at a Glance

Hex Head Cap Screws
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Bolts
See page 2069

Nuts
See page 2079

Washers
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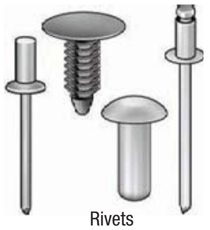
Screws
See page 2097

Nails
See page 2111

Socket-Head Cap Screws
See page 2112

Shoulder Screws & Set Screws
See page 2123


Rivets
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Thread Inserts
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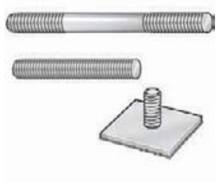
Threaded Rod & Studs
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Pins
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Retaining Rings
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Springs
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Anchors
See page 2161

O-Rings
See page 2173

Thread Measuring Gauges

Use these all-steel gauges to identify thread sizes on Nuts, Bolts, and Screws. Feature permanently laser-etched size markings. All include both inch- and metric-sizes; both male and female identifiers.

Measures	Range	Item No.
Thread Identifier Wire Lanyard, Standard and Metric		
Nuts, Bolts, And Screws	SAE # 6 to ½ in UNC and UNF, Metric Threads M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.0, M8 x 1.25, M10 x 1.0, M10 x 1.25, M10 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75, and attached ruler	3JAW6
Inch and Metric Thread Pitches	Identifiers ⅝"-11, ⅝"-18, ¾"-10, ¾"-16, 1"-8 and 1"-12 Metric M14 x 1.5, M14 x 2.0, M16 x 1.5, M16 x 2.0, M20 x 1.5, M20 x 2.5, M24 x 2.0, M24 x 3.0	52CC96
Inch and Metric Thread Pitches	Identifiers 1-64, 1-72, 2-56, 2-64, 3-48, 3-56, 4-40, 4-48, 5-40 and Metric M1.2 x 0.25, M1.6 x 0.35, M1.6 x 0.20, M1.8 x 0.35, M2 x 0.4, M2 x 0.25, M2.5 x 0.45, M2.5 x 0.35, M3 x 0.50, M3 x 0.35, M3.5 x 0.6, M3.5 x 0.35	52CC97
Steel Gauge		
Screws, Bolts, Nuts, Washers, and Wire Size	UNC Threads 6-32, 8-32, 10-24, ¼"-20, 5⁄16"-18, ⅜"-16, 7⁄16"-14, and ½"-13, UNF Threads 10-32, ¼"-28, 5⁄16"-24, ⅜"-24, 7⁄16"-20, and ½"-20, Metric Threads 4 to 12mm Standard, Fine, and Extra Fine	1TU58
Plastic Gauges		
Bolts, Nuts, and Washers	USS and SAE #6 to 1 in, ID #8 to ⅝ in, 0 to 4 in, Metric Gauge 6 to 22mm, Metric Length 0 to 100mm	2EE44

Torque Guide

Black Book

Reference Books

Item	No. of Pages	English Item No.	Spanish Item No.
Torque Guide	28	2UUK3	—
Fastener Black Book, Inch Edition	196	38C736	—
Fastener Black Book	248	4KYX8	5DFD9
Engineers Black Book	168	—	5DFD8
Engineers Black Book	220	442X96	—
Reference Book	246	442X97	—

ARMOR COAT™ FASTENERS METRIC BLUE

Hex Head Cap Screw Assortments

Sets include an assortment of screws, bolts, hex nuts, and washers in a range of sizes.
For detailed description of contents, see Grainger.com®

Finish	No. of Pieces	System of Measurement	Includes Screws/ Bolts	Includes Hex Nuts	Includes Flat Washers	Includes Lock Washers	Container Type	Brand	Item No.
Grade 5 Steel									
Chrome Plated	55	Inch	Yes	No	No	No	Plastic Box	—	**4GUX9**
Chrome Plated	125	Inch	Yes	No	No	No	Plastic Box	—	**2FTZ9**
Grade 8 Steel									
Armor Coat	330	Inch	Yes	Yes	Yes	Yes	Plastic Box	Armor Coat	**5DKD2**
Armor Coat	738	Inch	Yes	Yes	Yes	Yes	Metal Box	Armor Coat	**5DKD1**
Class 10.9 Steel									
Blue Phosphate	245	Metric	Yes	Yes	Yes	Yes	Plastic Box	Metric Blue	**5YNH2**
Blue Phosphate	390	Metric	Yes	Yes	Yes	Yes	Metal Box	Metric Blue	**5YNH1**
Steel									
Black Oxide	515	Inch	Yes	Yes	Yes	Yes	Metal Box	—	**53WR13**
Zinc Plated	302	Inch	Yes	Yes	Yes	Yes	Metal Box	—	**53WR35**
Zinc Plated	485	Inch	Yes	Yes	Yes	Yes	Metal Box	—	**53WR05**
Zinc Plated	678	Inch	Yes	Yes	Yes	Yes	Metal Box	—	**53WR07**
Zinc Plated	898	Inch	Yes	Yes	Yes	Yes	Metal Box	—	**53WR26**
Zinc Plated	1,600	Inch	Yes	Yes	Yes	No	Metal Box	—	**402K25**
Zinc Plated	128	Metric	Yes	Yes	No	No	Metal Box	—	**53WP95**
Zinc Plated	225	Metric	Yes	Yes	Yes	Yes	Plastic Box	—	**53WR32**
Zinc Plated	730	Metric	Yes	Yes	Yes	Yes	Metal Box	—	**53WR03**
Zinc Plated	780	Metric	Yes	Yes	Yes	No	Metal Box	—	**402K06**
Stainless Steel									
Black Oxide	235	Inch	Yes	Yes	Yes	No	Metal Box	—	**402K08**
Black Oxide	585	Inch	Yes	Yes	Yes	No	Metal Box	—	**402K09**

5DKD1

5YNH2

Automotive Assortments

- All assortments include tray

Item	Number of Pieces	Model Number	Item No.
Black Nylon Push Type Retainer Assortment	175	8121	**12T292**
Black Sheet Metal Screw Assortment	420	8123	**12T294**
Black Trim Screw Assortment	210	8122	**12T293**
Body Shim Assortment	140	8101	**12T283**
Cage Nut Assortment	505	8667	**12U254**
Chrylser Hood Prop and Rod End Assortment	131	8169	**12T306**
Chrysler Door Trim Panel Assortment	115	8118	**12T289**
Cowl Fastener Retainer Assortment	168	8182	**12T317**
Door Hinge Pin/Bushing Kit	8	9833	**12U257**
Door Hinge Pin/Bushing Kit	8	10528	**12U259**
Door Hinge Pin/Bushing Kit	8	9905	**12U260**
Door Hinge Pin/Bushing Kit	7	10060	**12U262**
Door Hinge Pin/Bushing Kit	8	9940	**12U267**
Door Hinge Pin/Bushing Kit	10	10699	**12U270**
Door Pin and Bushing Assortment	86	8161	**12T303**
Door Rod and Hood Prop Assortment	310	8625	**12T324**
Ergo Tuflok Retainer Assortment	110	8180	**12T316**
Ergo Tuflok Retainer Assortment	280	8637	**12U249**
Flush Type Hole Plug Assortment	349	8165	**12T304**
Ford Door Trim Panel Assortment	116	8146	**12T299**
Ford Hood Prop and Rod End Assortment	100	8168	**12T305**
GM Door Panel Retainer Assortment	120	8116	**12T287**
GM Hood Prop and Rod End Assortment	137	8171	**12T308**
GM Rocker Panel Assortment	220	8620	**12T323**
Grill and Headlamp Grommet Assortment	330	8105	**12T284**
Honda / Acura Retainer Assortment	164	8179	**12T315**
Honda Retaier Assortment	121	8177	**12T313**
Hood Seal & Insulation Retainer Assortment	331	8659	**12U251**
Hose Clamp Assortment	100	8701	**12U255**
Hyundia Retainer Assortment	405	8663	**12U253**
Import Door Lock Rod End Clip	128	8133	**12T295**
Import Door Lock Rod End Clip	860	8633	**12T325**
Import Door Lock Rod End Clip	425	8633X	**12U247**
Import Door Trim Panel Assortment	170	8109	**12T285**
License Plate Nut and Screw Assortment	520	8661	**12U252**
Master Body Shop System	6777	8410	**40K561**
Moulding Clip Assortment	154	8173	**12T309**
Nissan Retainer Assortment	123	8175	**12T311**
Panel Retainer Assortment	120	8115	**12T286**
Push On Nut Assortment	245	8145	**12T298**
Push Type Retainer Assortment	82	8120	**12T291**
Shield / Push Type Retainer Assortmnet	192	8119	**12T290**
Shield Retainer Assortment	210	8117	**12T288**
Toyota Nut, Grommet & Retainer Assortment	430	8639	**12U250**
Toyota Retainer Assortment	146	8174	**12T310**
Universal Door Panel & Hood Clip Assortment	197	8615	**12T322**
Universal Shield Retainer Assortment	168	8135	**12T296**
Universal Shield Retainer Assortment	336	8601	**12T319**
Universal Shield Retainer Assortment	311	8609	**12T320**
Universal Shield Retainer Assortment	204	8613	**12T321**
U Nut Assortment	210	8176	**12T312**
Weatherstrip Retainer Assortment	300	8150	**12T301**
Window Guide Assortment,42 Pc	42	8170	**12T307**
Wire Harness Assortment	30	8635	**12U248**
Wire Routing Clip Assortment	54	8140	**12T297**

Black Nylon Push Type Retainer Assortment 12T292

Body Shim Assortment 12T283

Flush Type Hole Plug Assortment 12T304

Wire Harness Assortment 12U248

Fastener Assortments with 72-Bin Cabinet

Convenient pigeonhole bin cabinet keeps frequently used fasteners organized and easy to access. Choose the preselected assortment of fasteners that suits your needs. Extra bins give you space for specialty items. Cabinet and base are made of durable steel with red powder-coated finish. Cabinet is 34"W x 42"H x 12" D; and compartments are 4"W x 3⅜"H. Order refill packs below, or go to Grainger.com® for a comprehensive selection of hard-to-find sizes.

No. of Pieces	Finish	System of Measurement	Item No.
72 Bin Assortment Kits			
Grade 5 Steel			
2,785	Zinc Plated	Inch	**42PA98**
Grade 8 Steel			
2,855	Zinc Yellow	Inch	**42PA99**
Class 8.8 Steel			
3,115	Zinc Plated	Metric	**42PC02**
18-8 Stainless Steel			
1,945	Plain	Inch	**42PC01**
A2 Stainless Steel			
2,270	Plain	Metric	**42PC03**

Thread Size	Flat Washer	Lock Washer	Hex Nut	Locknut Nut	Hex Head Cap Screw Length							
Inch Kits Include												
¼"-20	X	X	X	X	½"	¾"	1"	1 ½"	2"			
⁵⁄₁₆"-18	X	X	X	X	½"	¾"	1"	1 ½"	2"			
⅜"-16	X	X	X	X	½"	¾"	1"	1 ½"	2"	2 ½"	3"	4"
½"-13	X	X	X	X	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	
⅝"-11	X	X	X	X	1"	1 ½"	2"	2 ½"	3"	3 ½"	4"	
¾"-10	X	X	X	X	1 ½"	2"	2 ½"	3"	3 ½"	4"		
Metric Kits Include												
M6-1	X	X	X	X	20	25	40	50				
M8-1.25	X	X	X	X	20	25	40	50	60			
M10-1.5	X	X	X	X	20	25	40	50	60	70	100	
M12-1.75	X	X	X	X		25	40	50	60	70	100	
M16-2	X	X	X	X			40	50	60	70	100	
M20-2.5	X	X	X	X			40	50	60	70	100	

Description	Grade 5 Item No.	Grade 5 Pkg. Qty.	Grade 8 Item No.	Grade 8 Pkg. Qty.	18-8 (304) SS Item No.	18-8 (304) SS Pkg. Qty.
Refill Packs						
Hex Head Cap Screw						
¼"-20 X ½ in	**2CA46**	100	**10H326**	100	**3AUY9**	100
¼"-20 X ¾ in	**2CA50**	100	**10E541**	100	**3AUV3**	100
¼"-20 X 1 in	**2CA54**	100	**10H330**	100	**3AUV5**	100
¼"-20 X 1 ½ in	**1KA23**	100	**10E547**	100	**3AVE4**	100
¼"-20 X 2 in	**22RZ72**	50	**22TA57**	50	**40TW46**	50
⁵⁄₁₆"-18 X ½ in	**2CA78**	100	**10H331**	100	**3AUT8**	100
⁵⁄₁₆"-18 X ¾ in	**2CA82**	100	**10H332**	100	**3AUT6**	100
⁵⁄₁₆"-18 X 1 in	**2CA86**	100	**10H333**	100	**23LA83**	50
⁵⁄₁₆"-18 X 1 ½ in	**1KA37**	100	**10E552**	100	**3AUV8**	50
⁵⁄₁₆"-18 X 2 in	**22TA88**	50	**23LA27**	50	**23LA84**	50
⅜"-16 X ½ in	**22TC02**	50	**23LA30**	50	**3AUW8**	50
⅜"-16 X ¾ in	**23KZ55**	50	**23LA31**	50	**3AUU1**	50
⅜"-16 X 1 in	**23KZ56**	50	**23LA32**	50	**3AUW4**	50
⅜"-16 X 1 ½ in	**22TC06**	50	**22TH06**	50	**3AUY5**	25
⅜"-16 X 2 in	**23KZ58**	25	**23LA33**	25	**3AVD1**	25
⅜"-16 X 2 ½ in	**23KZ60**	25	**22TH09**	25	**3AUU6**	25
⅜"-16 X 3 in	**23KZ61**	25	**23LA34**	25	**3AVG6**	10
⅜"-16 X 4 in	**23KZ62**	10	**22TH11**	10	**3AVA2**	10
½"-13 X 1 in	**23KZ74**	25	**23LA44**	25	**24K911**	10
½"-13 X 1 ¼ in	**22TC38**	25	**22TH30**	25	**24K912**	10
½"-13 X 1 ½ in	**22TC39**	25	**22TH31**	25	**24K913**	10
½"-13 X 2 in	**23KZ75**	10	**23LA45**	10	**3AUV4**	10
½"-13 X 2 ½ in	**22TC41**	10	**22TH34**	10	**3AVA7**	10
½"-13 X 3 in	**23KZ77**	10	**23LA46**	10	**24K919**	5
½"-13 X 4 in	**23KZ79**	5	**23LA48**	5	**3AVU7**	5
⅝"-11 X 1 in	**22TC62**	10	**25DN57**	10	**3AUU4**	10
⅝"-11 X 1 ½ in	**22TC64**	10	**30Z447**	10	**3AUU9**	10
⅝"-11 X 2 in	**22TC66**	5	**30Z449**	5	**24K946**	5
⅝"-11 X 2 ½ in	**23KZ84**	5	**22TH55**	5	**3AVT8**	5
⅝"-11 X 3 in	**22TC69**	5	**22TH57**	5	**3AVX3**	5
⅝"-11 X 3 ½ in	**22TC70**	5	**22TH58**	5	**3AVX9**	5
⅝"-11 X 4 in	**22TC71**	5	**22TH59**	5	**3AVX8**	5
¾"-10 X 1 ½ in	**22TC87**	10	**22TH72**	10	**3AUU3**	5
¾"-10 X 2 in	**22TC89**	5	**30Z455**	5	**3AUU5**	5
¾"-10 X 2 ½ in	**22TC90**	5	**30Z456**	5	**24K970**	5
¾"-10 X 3 in	**22TC92**	5	**22TH77**	5	**3AVR5**	5
¾"-10 X 3 ½ in	**22RZ74**	5	**22TH79**	5	**3AVT3**	5
¾"-10 X 4 in	**22TC94**	5	**22TH80**	5	**3AVT2**	5
Hex Nut						
¼"-20	**4FCA9**	100	**3HDZ2**	100	**22UK70**	50
⁵⁄₁₆"-18	**3HEE8**	100	**3HED5**	100	**22YK24**	50
⅜"-16	**3HEF1**	100	**3HED7**	100	**41FV08**	50
½"-13	**4FCC2**	50	**3HED8**	50	**40TW73**	25
⅝"-11	**3HEF6**	25	**3HEA4**	25	**1WB44**	25
¾"-10	**12P540**	20	**12P573**	20	**1WB48**	20
Lock Nut						
¼"-20	**5TJD2**	100	**4FAR9**	100	**22RV96**	50
⁵⁄₁₆"-18	**5TJD3**	100	**4FAU2**	100	**22RV97**	50
⅜"-16	**29DU67**	50	**26LG96**	50	**3PDG9**	50
½"-13	**22RV70**	25	**29DM64**	25	**22RV98**	10
⅝"-11	**29DU69**	10	**26LG99**	10	**3PDH8**	10
¾"-10	**22RV71**	10	**26LH01**	10	**3PDJ1**	5
SAE Washer						
¼ in	**1JY70**	100	**6YPJ5**	100	**25DK30**	50
⁵⁄₁₆ in	**1JY72**	100	**6YPJ6**	50	**25DK31**	50
⅜ in	**1JY74**	100	**6YPJ7**	50	**25DK32**	50
½ in	**1JY78**	50	**6YPJ9**	25	**25DK34**	25
⅝ in	**1JY82**	25	**6YPK1**	25	**25DK36**	25
¾ in	**25DK17**	20	**6YPK2**	20	**25DK37**	20
Split Lock Washer						
¼ in	**2DA89**	100	**2DB26**	100	**23NJ50**	50
⁵⁄₁₆ in	**2DA91**	100	**2DB28**	100	**23NJ51**	50
⅜ in	**22UH80**	50	**22UJ47**	50	**23NJ52**	50
½ in	**22UH82**	25	**22UJ49**	25	**23NJ54**	10
⅝ in	**22UH84**	10	**22UJ51**	10	**23NJ55**	10
¾ in	**22UH85**	10	**22UJ52**	10	**23NJ56**	5

Description	Class 8.8 Item No.	Class 8.8 Pkg. Qty.	A2 SS Item No.	A2 SS Pkg. Qty.
Refill Packs				
Hex Head Cap Screw				
M6-1.00 X 20 mm	**6AU89**	100	**22TG06**	50
M6-1.00 X 25 mm	**6AU90**	100	**22TG07**	50
M6-1.00 X 40 mm	**22TL13**	100	**38DZ08**	50
M6-1.00 X 50 mm	**22TL15**	100	**25DA56**	50
M8-1.25 X 20 mm	**6AV25**	100	**22TN71**	50
M8-1.25 X 25 mm	**6AV27**	100	**22TN73**	50
M8-1.25 X 40 mm	**6AV31**	100	**22TN76**	50
M8-1.25 X 50 mm	**22TL25**	100	**25DA64**	50
M8-1.25 X 60 mm	**22TL27**	100	**25DA66**	50
M10-1.50 X 20 mm	**22TN05**	100	**22TN84**	50
M10-1.50 X 25 mm	**22TN06**	100	**22TN85**	50
M10-1.50 X 40 mm	**22TN09**	50	**22TN88**	25
M10-1.50 X 50 mm	**6AY34**	50	**25DA69**	25
M10-1.50 X 60 mm	**22TL41**	50	**25DA71**	25
M10-1.50 X 70 mm	**22TL43**	50	**22TM65**	25
M10-1.50 X 100 mm	**22TL47**	50	**22TM68**	25
M12-1.75 X 25 mm	**22TN14**	50	**22TN96**	25
M12-1.75 X 40 mm	**22TN17**	50	**22TN99**	25
M12-1.75 X 50 mm	**25CY32**	50	**25DA77**	25
M12-1.75 X 60 mm	**22TL56**	50	**25DA79**	25
M12-1.75 X 70 mm	**22TL58**	25	**22TM71**	10
M12-1.75 X 100 mm	**22TL62**	25	**22TM74**	10
M16-2.00 X 40 mm	**22TN30**	25	**22TP12**	10
M16-2.00 X 50 mm	**22TN32**	25	**22TP14**	10
M16-2.00 X 60 mm	**22TL80**	25	**22TM82**	10
M16-2.00 X 70 mm	**22TL81**	10	**6BU28**	5
M16-2.00 X 100 mm	**22TL85**	10	**22TM86**	5
M20-2.50 X 40 mm	**6AV84**	10	**22TP17**	5
M20-2.50 X 50 mm	**6AV86**	10	**22TP19**	5
M20-2.50 X 60 mm	**25DF60**	10	**25DG99**	5
M20-2.50 X 70 mm	**25DF62**	10	**25DH01**	5
M20-2.50 X 100 mm	**22TL94**	10	**22TM92**	5
Hex Nut				
M6-1.00	**6CA75**	100	**22YK33**	50
M8-1.25	**6CA77**	100	**6CA19**	50
M10-1.50	**6CA78**	100	**22UK61**	50
M12-1.75	**22UK55**	50	**6CA21**	25
M16-2.00	**22UK56**	25	**6CA23**	10
M20-2.50	**22UK57**	10	**6CA25**	5
Lock Nut				
M6-1.00	**4CAG3**	100	**26WC52**	50
M8-1.25	**4CAG5**	100	**6CB72**	50
M10-1.50	**22RW50**	100	**22RW65**	50
M12-1.75	**19NR89**	50	**22RW66**	25
M16-2.00	**4CAG9**	25	**22RW68**	10
M20-2.50	**22RW52**	10	**22RW70**	5
SAE Washer				
M6	**6EY59**	100	**26WC34**	50
M8	**6EY63**	100	**26WC36**	50
M10	**6EY65**	100	**26WC37**	50
M12	**22UH22**	50	**22UE59**	25
M16	**22UE53**	25	**26WC38**	10
M20	**22UE54**	10	**26WC39**	5
Split Lock Washer				
M6	**6FB85**	100	**22UJ72**	50
M8	**6FB87**	100	**22UJ73**	50
M10	**6FB89**	100	**22UJ74**	50
M12	**22UK10**	50	**22UK20**	25
M16	**22UK12**	25	**22UK21**	10
M20	**22UK14**	10	**22UK22**	5

Hex Head Cap Screw Materials, Grades, and Finishes

STEEL

An iron alloy with typically a few tenths of a percent of carbon to improve its strength and fracture resistance compared to other forms of iron.

Grade 2 - Used for light-duty fastening

Grade A307A - Heat-treated, medium-strength carbon steel

Grade 5 - Suitable for fastening most machinery and equipment. Head is marked with 3 radial lines

Grade 8 - Used in demanding, high stress applications. Head is marked with 6 radial lines

Grade 9 - Strongest steel for heavy-duty applications. Head is marked with 9 radial lines

Class 8.8 - Medium strength with high ductility and workability. Used on most types of equipment

Class 10.9 - Used for high stress applications or materials

STAINLESS STEEL

A group of ferrous alloys that contain a minimum of 11% chromium; a composition that prevents the iron from rusting and provides heat-resistant properties.

18-8 - Magnetic with natural chemical resistance

316 - Highly corrosion resistant as well as chemical and saltwater resistant

A2 - Metric; magnetic with chemical resistance

A4 - Metric; highly corrosion resistant as well as chemical and saltwater resistant

FINISHES AND COATINGS

Armor Coat - Proprietary coating that provides corrosion and chemical resistance in harsh or saltwater environments

Black Oxide - A black coating that covers the top layer of a ferrous material with a chemical treatment. Corrosion resistant in dry environments

Blue Phosphate - Blue-dyed zinc plating to easily identify metric fasteners

Chrome Plated - Highly corrosion-resistant finish that extends wear and resilience. Provides protection in environments where fasteners are exposed to high friction and wet conditions

Hot Dipped Galvanized - Molten zinc finishing process provides superior corrosion resistance. Thicker than other finishes

NL-19 - Proprietary treatment that makes stainless steel fasteners brighter, stronger and more corrosion resistant

Plain - No coating or treatment applied

Zinc Plated - Corrosion resistant in wet environments

Zinc Yellow - Yellow-plated zinc finish that protects against corrosion in wet environments.

Metric Hex Head Cap Screws Head Height and Width

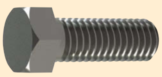
Thread Size (Dia.)	Threads per mm	Head Height	Head Width
M4	Coarse - 0.70	2.8 mm	7 mm
M5	Coarse - 0.80	3.5 mm	8 mm
M6	Coarse - 1.00 Fine - 0.75	4 mm	10 mm
M8	Coarse - 1.25 Fine - 1.00	5.3 mm	13 mm
M10	Coarse - 1.50 Fine - 1.25	6.4 mm	17 mm
M12	Coarse - 1.75 Fine - 1.50	7.5 mm	19 mm
M14	Coarse - 2.00 Fine - 1.50	8.8 mm	22 mm
M16	Coarse - 2.00 Fine - 1.50	10 mm	24 mm
M18	Coarse - 2.50 Fine - 2.00	11.5 mm	27 mm
M20	Coarse - 2.50 Fine - 2.00	12.5 mm	30 mm
M24	Coarse - 3.00 Fine - 2.00	15 mm	36 mm
M30	Coarse - 3.50 Fine - 3.00	18.7 mm	46 mm
M36	Coarse - 4.00 Fine - 3.00	22.5 mm	55 mm

Hex Head Cap Screws Head Height and Width

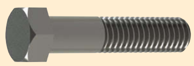
Thread Size (Dia.)	Threads per Inch	Minimum Thread Length	Head Height	Head Width
¼	Coarse - 20 Fine - 28	¾	5⁄32"	7⁄16"
5⁄16	Coarse - 18 Fine - 24	⅞	13⁄64"	½"
⅜	Coarse - 16 Fine - 24	1	15⁄64"	9⁄16"
7⁄16	Coarse - 14 Fine - 20	1 ⅛	9⁄32"	⅝"
½	Coarse - 13 Fine - 20	1 ¼	5⁄16"	¾"
9⁄16	Coarse - 12 Fine - 18	1 ⅜	23⁄64"	13⁄16"
⅝	Coarse - 11 Fine - 18	1 ½	25⁄64"	15⁄16"
¾	Coarse - 10 Fine - 16	1 ¾	15⁄32"	1 ⅛"
⅞	Coarse - 9 Fine - 14	2	35⁄64"	1 5⁄16"
1	Coarse - 8 Fine - 14	2 ¼	39⁄64"	1 ½"
1 ⅛	Coarse - 7 Fine - 12	2 ½	11⁄16"	1 11⁄16"
1 ¼	Coarse - 7 Fine - 12	2 ¾	25⁄32"	1 ⅞"
1 ½	Coarse - 6 Fine - 12	3 ¼	15⁄16"	2 ¼"

Hex Head Cap Screw Thread Styles and Types

THREAD STYLE



Fully Threaded - Threads run the entire length of the screw body. Use when grip strength is most important.



Partially Threaded - Has an unthreaded area beneath the head, then is threaded for the remaining length of the screw body. The unthreaded area is called the grip length. Use when shear resistance and alignment are most important.

THREAD TYPE

Coarse - Less threads per inch; require fewer turns to fully tighten.

Fine - Threads are more closely spaced for reduced tapping torque. Less likely to loosen or break when threaded into moving or vibrating materials.

Extra Fine - Threads are more closely spaced than fine threads. Used in areas where precise, small adjustments must be made as the fastener is tightened.

Grade A307A Steel Hex Head Cap Screws

- Meet ASME B18.2.1 ASTM A307 standards

Length	Thread Style	Item No.	Pkg. Qty.
Hot Dipped Galvanized			
¼"-20 Coarse			
1"	Partially Threaded	**2BY86**	100
1½"	Partially Threaded	**2BY88**	100
2"	Partially Threaded	**2BY90**	100
3"	Partially Threaded	**2BY92**	100
⅜"-16 Coarse			
1"	Fully Threaded	**2BY94**	100
1½"	Partially Threaded	**2BY97**	100
3"	Partially Threaded	**2CA14**	50
½"-13 Coarse			
1½"	Partially Threaded	**2CA26**	50
2"	Partially Threaded	**2CA29**	50
6"	Partially Threaded	**2CA39**	25
⅝"-11 Coarse			
2"	Partially Threaded	**2CA40**	25
3"	Partially Threaded	**2CA42**	25
4"	Partially Threaded	**2CA44**	25
Zinc Plated			
¼"-20 Coarse			
1"	Fully Threaded	**41UC68**	100
2"	Fully Threaded	**41UC69**	50
2½"	Fully Threaded	**41UC71**	50
⅜"-16 Coarse			
1¼"	Fully Threaded	**41UC96**	50
3"	Fully Threaded	**41UD04**	25
6"	Fully Threaded	**167H26**	120
½"-13 Coarse			
2"	Fully Threaded	**167H38**	160
6"	Fully Threaded	**41UD32**	5
8"	Fully Threaded	**167H50**	50
⅝"-11 Coarse			
4"	Fully Threaded	**41UD44**	5
8"	Partially Threaded	**2BY19**	25
12"	Partially Threaded	**2BY27**	20
¾"-10 Coarse			
2"	Fully Threaded	**167H65**	65
3½"	Fully Threaded	**167H71**	45
5"	Fully Threaded	**41UD58**	5
1 "-8 Coarse			
3½"	Partially Threaded	**2BY73**	10
10"	Partially Threaded	**2BY82**	10
12"	Partially Threaded	**2BY84**	6

Grade 2 Steel Hex Head Cap Screws

- Meet ASME B18.2.1 SAE J429 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
¼"-20 Coarse			
¾"	Fully Threaded	5NYR6	100
1"	Fully Threaded	5NYR8	100
1¼"	Partially Threaded	5NYR9	100
1½"	Partially Threaded	5NYT0	100
2"	Partially Threaded	22RZ31	50
2¼"	Partially Threaded	22RW81	50
2½"	Partially Threaded	22RW82	50
3½"	Partially Threaded	42JM65	400
	Partially Threaded	22RW86	50
5"	Partially Threaded	22RW90	25
6"	Partially Threaded	42JM71	250
5/16"-18 Coarse			
¾"	Fully Threaded	5NYU7	100
1"	Fully Threaded	5NYU9	100
	Fully Threaded	42JM76	700
1¼"	Fully Threaded	5NYV0	100
1½"	Partially Threaded	5NYV1	100
2"	Partially Threaded	42JM80	400
	Partially Threaded	22RW94	50
2½"	Partially Threaded	22RW96	50
3"	Partially Threaded	22RW98	50
4"	Partially Threaded	22RX01	25
⅜"-16 Coarse			
¾"	Fully Threaded	22RX08	50
1"	Fully Threaded	22RX10	50
	Fully Threaded	42JM97	500
1¼"	Fully Threaded	22RX11	50
	Fully Threaded	42JM98	450
1½"	Partially Threaded	22RX12	50
2"	Partially Threaded	42JN02	300
	Partially Threaded	22RX14	25
2½"	Partially Threaded	22RX16	25
	Partially Threaded	42JN04	250
3"	Partially Threaded	22RX18	25
	Partially Threaded	42JN06	200
3½"	Partially Threaded	22RX20	25
4"	Partially Threaded	22RX22	10
5"	Partially Threaded	22RX24	10
½"-13 Coarse			
1"	Fully Threaded	22RX44	25
1¼"	Fully Threaded	22RX45	25
	Fully Threaded	42JM32	175
1½"	Fully Threaded	22RX46	25
1¾"	Fully Threaded	22RX47	25
2"	Partially Threaded	42JN35	160
	Partially Threaded	22RX48	10
2½"	Partially Threaded	22RX50	10
3"	Partially Threaded	42JN39	110
	Partially Threaded	22RX52	10
3¼"	Partially Threaded	22RX53	10
3½"	Partially Threaded	22RX54	10
4½"	Partially Threaded	22RX57	5
7"	Partially Threaded	22RZ56	5
⅝"-11 Coarse			
1½"	Fully Threaded	42JN50	110
1¾"	Fully Threaded	42JN51	100
2½"	Partially Threaded	42JN54	80
	Partially Threaded	22RX67	5
3"	Partially Threaded	22RX69	5
3¾"	Partially Threaded	42JN59	55
5"	Partially Threaded	22RX75	5
¾"-10 Coarse			
1½"	Fully Threaded	22RX80	10
2"	Fully Threaded	22RX82	5
3"	Partially Threaded	22RX86	5
6"	Partially Threaded	42JN81	25
Zinc Plated			
¼"-20 Coarse			
½"	Fully Threaded	5JTV6	100
1"	Fully Threaded	5JTV4	100
1¼"	Partially Threaded	5JTV3	100
1½"	Partially Threaded	5JTV2	100
2¼"	Partially Threaded	22RX95	50
2½"	Partially Threaded	42JN92	550
	Partially Threaded	22RX96	50
5"	Partially Threaded	22RY05	25
6"	Partially Threaded	42JP03	250
	Partially Threaded	22RY07	25
5/16"-18 Coarse			
¾"	Fully Threaded	5JTU1	100
1"	Fully Threaded	5JTU0	100
	Fully Threaded	42JP08	700
1½"	Partially Threaded	5JTT8	100
	Partially Threaded	42JP10	500
2"	Partially Threaded	22RY09	50
	Partially Threaded	42JP12	400
2½"	Partially Threaded	22RY11	50
	Partially Threaded	42JP14	350
3"	Partially Threaded	22RY13	50
	Partially Threaded	42JP16	300
3¼"	Partially Threaded	5JTE7	50
4"	Partially Threaded	22RY15	25
4½"	Partially Threaded	22RY16	25
⅜"-16 Coarse			
¾"	Fully Threaded	22RY22	50
1"	Fully Threaded	22RY24	50
1¼"	Fully Threaded	22RY25	50
1½"	Partially Threaded	22RY26	50
	Partially Threaded	42JP31	350
2"	Partially Threaded	42JP33	300
2½"	Partially Threaded	22RY30	25
	Partially Threaded	42JP35	250
3"	Partially Threaded	42JP37	200
	Partially Threaded	22RY32	25
4"	Partially Threaded	22RY36	10
	Partially Threaded	42JP41	160
7/16"-14 Coarse			
1"	Fully Threaded	22RY42	25
½"-13 Coarse			
1"	Fully Threaded	22RY58	25
1¼"	Fully Threaded	22RY59	25
1½"	Fully Threaded	22RY60	25
2"	Partially Threaded	22RY62	10
2½"	Partially Threaded	22RY64	10
2¾"	Partially Threaded	22RY65	10
3"	Partially Threaded	42JP71	110
	Partially Threaded	22RY66	10
3½"	Partially Threaded	22RY68	10
4"	Partially Threaded	22RY70	5
	Partially Threaded	42JP75	85
⅝"-11 Coarse			
2"	Fully Threaded	22RY79	5
2½"	Partially Threaded	22RY81	5
3"	Partially Threaded	22RY83	5

Grade 5 Steel Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Meet ASME B18.2.1 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
¼"-20 Coarse			
½"	Fully Threaded	38WG02	100
¾"	Fully Threaded	38WG04	100
1"	Fully Threaded	38WJ25	100
1¼"	Partially Threaded	38WJ26	100
1½"	Partially Threaded	38WJ27	100
5/16"-18 Coarse			
¾"	Fully Threaded	38WG07	100
1"	Fully Threaded	38WJ44	100
1¼"	Fully Threaded	38WJ45	100
3"	Partially Threaded	38WJ53	50
5/16"-24 Fine			
1"	Fully Threaded	38WL72	100
⅜"-16 Coarse			
1"	Fully Threaded	38WG13	50
	Fully Threaded	38WH10	500
1¼"	Fully Threaded	38WJ63	50
1½"	Partially Threaded	38WJ64	50
	Partially Threaded	38WR59	350
2¾"	Partially Threaded	38WJ69	25
3"	Partially Threaded	38WR65	200
4"	Partially Threaded	38WR69	160
½"-13 Coarse			
1¼"	Fully Threaded	38WG20	25
	Fully Threaded	38WH17	175
1½"	Fully Threaded	38WK04	25
	Fully Threaded	38WR93	200
2"	Partially Threaded	38WK06	10
	Partially Threaded	38WR95	160
2½"	Partially Threaded	38WR97	130
	Partially Threaded	38WK08	10
3"	Partially Threaded	38WK10	10
3½"	Partially Threaded	38WK12	10
9/16"-18 Fine			
1½"	Fully Threaded	38WM21	25
⅝"-11 Coarse			
1½"	Fully Threaded	38WH22	110
2"	Fully Threaded	38WK45	5
2½"	Partially Threaded	38WK47	5
3"	Partially Threaded	38WK49	5
	Partially Threaded	38WT31	70
3½"	Partially Threaded	38WT33	60
	Partially Threaded	38WK51	5
4"	Partially Threaded	38WK53	5
4½"	Partially Threaded	38WK55	5
¾"-10 Coarse			
2½"	Fully Threaded	38WT44	50
3"	Partially Threaded	38WT46	45
	Partially Threaded	38WK72	5
3½"	Partially Threaded	38WK74	5
4"	Partially Threaded	38WT50	35
	Partially Threaded	38WK76	5
⅞"-9 Coarse			
3¼"	Partially Threaded	38WT63	30
⅞"-14 Fine			
2¼"	Fully Threaded	38WM59	5
3"	Partially Threaded	38WM62	5
1 ¼"-7 Coarse			
5½"	Partially Threaded	38WT98	9
Zinc Plated			
¼"-20 Coarse			
½"	Fully Threaded	6HGA1	100
⅝"	Fully Threaded	38WH87	1600
1"	Fully Threaded	38WN79	100
1¼"	Partially Threaded	6JCG5	100
	Fully Threaded	6HGA6	100
1½"	Partially Threaded	6JCG6	100
	Fully Threaded	6HGA7	100
2"	Partially Threaded	38TM35	50
	Fully Threaded	6HGA9	100
2½"	Partially Threaded	38TM37	50
	Fully Threaded	6HGC0	100
3"	Partially Threaded	38TM39	50
3½"	Partially Threaded	38TM40	50
4"	Partially Threaded	38TM41	25
5/16"-18 Coarse			
¾"	Fully Threaded	38WH91	800
	Fully Threaded	6HGC7	100
1"	Fully Threaded	38WN89	100
1¼"	Fully Threaded	38WN90	100
1½"	Partially Threaded	38WY43	500
	Partially Threaded	6JCH4	100
2"	Partially Threaded	38TM43	50
2½"	Partially Threaded	38TM45	50
3"	Partially Threaded	38TM47	50
5/16"-24 Fine			
¾"	Fully Threaded	38WG73	100
⅜"-16 Coarse			
¾"	Fully Threaded	38TM18	50
1"	Fully Threaded	38TM20	50
	Fully Threaded	38WH97	500
1¼"	Fully Threaded	38WN97	50
	Fully Threaded	38WY57	450
1½"	Partially Threaded	38TM50	50
1¾"	Fully Threaded	6JCC1	100
	Partially Threaded	38TM51	50
2"	Partially Threaded	38TM52	25
2¼"	Fully Threaded	6JCC3	50
	Partially Threaded	38TM53	25
2½"	Partially Threaded	38TM54	25
3"	Partially Threaded	38TM56	25
3½"	Partially Threaded	38TM57	25
4"	Partially Threaded	38TM58	10
7/16"-14 Coarse			
1"	Fully Threaded	38TM22	25
1½"	Fully Threaded	38WP12	25
2"	Partially Threaded	38TM62	25
½"-13 Coarse			
1"	Fully Threaded	38TM24	25
	Fully Threaded	38WJ04	200
1¼"	Fully Threaded	38TM25	25
1½"	Fully Threaded	38WP20	25
1¾"	Fully Threaded	38WP21	25
	Fully Threaded	38WY93	150
2"	Partially Threaded	38TM69	10
	Partially Threaded	38WY94	160
2¼"	Partially Threaded	38TM70	10
2½"	Partially Threaded	38TM71	10
	Partially Threaded	38WY96	130
3"	Partially Threaded	38TM73	10
3½"	Partially Threaded	38TM74	10
4"	Partially Threaded	38TM75	5
4½"	Partially Threaded	38TM76	5
5"	Partially Threaded	38TM77	5
6"	Partially Threaded	38TM79	5
9/16"-12 Coarse			
2"	Fully Threaded	38WP36	10
⅝"-11 Coarse			
1½"	Fully Threaded	38TM28	10
1¾"	Fully Threaded	38WP41	10
2"	Fully Threaded	38WP42	5
2¼"	Partially Threaded	38TM83	5
2½"	Partially Threaded	38TM84	5
2¾"	Partially Threaded	38TM85	5
3"	Partially Threaded	38TM86	5
	Partially Threaded	38WZ27	70
3¼"	Partially Threaded	38WP43	5
	Partially Threaded	38WZ28	65
3½"	Partially Threaded	38TM87	5
4"	Partially Threaded	38TM88	5
4½"	Partially Threaded	38TM89	5
5"	Partially Threaded	38TM90	5
6"	Partially Threaded	38TM92	5
¾"-10 Coarse			
2"	Fully Threaded	38WP55	5
	Fully Threaded	38WZ37	60
2¼"	Fully Threaded	38WP56	5
	Fully Threaded	38WZ38	55
2½"	Fully Threaded	38WP57	5
2¾"	Partially Threaded	38TM93	5
3"	Partially Threaded	38TM94	5
3½"	Partially Threaded	38TM96	5
	Partially Threaded	38WZ43	40
4"	Partially Threaded	38TM97	5
4½"	Partially Threaded	38TM98	5
5"	Partially Threaded	38TM99	5
5½"	Partially Threaded	38TN01	5
6"	Partially Threaded	38TN02	5
6½"	Partially Threaded	38WP58	1
7"	Partially Threaded	38WP59	1
¾"-16 Fine			
2¾"	Partially Threaded	38WY02	45
⅞"-9 Coarse			
2½"	Fully Threaded	38WP69	5
3"	Partially Threaded	38TN03	5
	Partially Threaded	38WZ54	30
3½"	Partially Threaded	38TN05	5
4"	Partially Threaded	38TN07	5
1 "-8 Coarse			
3½"	Partially Threaded	38WP82	5
4"	Partially Threaded	38TN12	5
4½"	Partially Threaded	38WP84	5
5½"	Partially Threaded	38WP86	5

Grade 5 Steel Hex Head Cap Screws

- Meet ASME B18.2.1 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
¼"-20 Coarse			
½"	Fully Threaded	3ENY2	100
¾"	Fully Threaded	3ENY4	100
1"	Fully Threaded	3ENY6	100
1¼"	Partially Threaded	3ENY7	100
1½"	Partially Threaded	3ENY8	100
2"	Partially Threaded	22RZ71	50
2¼"	Partially Threaded	42GZ11	600
3¼"	Partially Threaded	22RZ16	50
4"	Partially Threaded	42GZ18	350
4½"	Partially Threaded	42GZ20	325
¼"-28 Fine			
⅝"	Fully Threaded	3EPA6	100
1"	Fully Threaded	3EPA8	100
1⅜"	Partially Threaded	22TD28	100
1½"	Partially Threaded	3EPC1	100
2½"	Partially Threaded	22TD30	50
3½"	Partially Threaded	22TD34	50
6"	Partially Threaded	22TD36	25
5/16"-18 Coarse			
¾"	Fully Threaded	3EPD9	100
1"	Fully Threaded	3EPE2	100
	Fully Threaded	42GZ28	700
1¼"	Fully Threaded	3EPE3	100
1½"	Partially Threaded	3EPE4	100
1¾"	Partially Threaded	22RZ23	50
2"	Partially Threaded	22RZ24	50
2½"	Partially Threaded	22RZ26	50
	Fully Threaded	167G18	450
3"	Partially Threaded	22RZ28	50
5"	Fully Threaded	167G22	250
5/16"-24 Fine			
½"	Fully Threaded	19NR79	100
1"	Fully Threaded	3EPG4	100
1½"	Partially Threaded	3EPG6	100
2"	Partially Threaded	22TD38	50
2¼"	Partially Threaded	22TD39	50
5"	Partially Threaded	3EPH7	25
⅜"-16 Coarse			
¾"	Fully Threaded	22RZ35	50
1"	Fully Threaded	22RZ37	50
1¼"	Fully Threaded	22RZ38	50
1½"	Partially Threaded	22RZ39	50
1¾"	Partially Threaded	22RZ40	50
2½"	Partially Threaded	22RZ43	25
3"	Partially Threaded	22RZ45	25
4¼"	Partially Threaded	22RZ50	10
	Partially Threaded	42GZ65	150
⅜"-24 Fine			
⅝"	Fully Threaded	22TD45	50
¾"	Fully Threaded	42HC81	600
1"	Fully Threaded	22TD48	50
1¼"	Fully Threaded	22TD49	50
	Fully Threaded	42HC84	450
3"	Partially Threaded	22TD56	25
4½"	Partially Threaded	22TD60	10
7/16"-14 Coarse			
2¾"	Partially Threaded	22RZ69	10
4½"	Partially Threaded	3FNH5	10
	Partially Threaded	42GZ88	100
5"	Partially Threaded	42GZ89	90
7/16"-20 Fine			
¾"	Fully Threaded	22TD67	25
3¾"	Partially Threaded	25CM72	10
4½"	Partially Threaded	3FNK6	10
5"	Partially Threaded	3FNK7	10
8"	Partially Threaded	25CM74	5
½"-13 Coarse			
¾"	Fully Threaded	42GZ93	300
⅞"	Fully Threaded	22RZ83	25
1"	Fully Threaded	22RZ84	25
1¼"	Fully Threaded	22RZ85	25
1½"	Fully Threaded	22RZ86	25
1¾"	Fully Threaded	22RZ87	25
2"	Partially Threaded	22RZ88	10
2½"	Partially Threaded	22RZ90	10
3"	Partially Threaded	22RZ92	10
4¼"	Partially Threaded	22RZ97	5
5½"	Partially Threaded	22TA03	5
7"	Partially Threaded	156G23	55
7½"	Partially Threaded	156J05	55
8"	Partially Threaded	156G24	50
8½"	Partially Threaded	156J06	50
½"-20 Fine			
1½"	Fully Threaded	22TD85	25
2"	Partially Threaded	22TD87	10
2½"	Partially Threaded	22TD89	10
9/16"-12 Coarse			
5½"	Partially Threaded	3FNU8	5
9/16"-18 Fine			
1¼"	Fully Threaded	4RUZ3	25
1½"	Fully Threaded	4RUZ4	25
3"	Partially Threaded	3FNV7	10
3½"	Partially Threaded	3FNV8	10
5"	Partially Threaded	3FNW2	5
⅝"-11 Coarse			
1½"	Fully Threaded	22TA15	10
2"	Fully Threaded	22TA17	5
2½"	Partially Threaded	22TA19	5
	Fully Threaded	41UC36	5
3"	Partially Threaded	22TA21	5
3½"	Partially Threaded	22TA22	5
4"	Partially Threaded	3FNX5	5
4¾"	Partially Threaded	22TA24	5
7½"	Partially Threaded	157C98	35
	Partially Threaded	3FNY3	5
⅝"-18 Fine			
1½"	Fully Threaded	22TE08	10
1¾"	Fully Threaded	22TE09	10
2½"	Partially Threaded	22TE12	5
	Partially Threaded	42HD71	80
2¾"	Partially Threaded	22TE13	5
3"	Partially Threaded	22TE14	5
7½"	Partially Threaded	25CM88	5
12"	Partially Threaded	22TE23	5
¾"-10 Coarse			
2"	Fully Threaded	22TA36	5
2½"	Fully Threaded	22TA37	5
2¾"	Partially Threaded	22TA38	5
3"	Partially Threaded	3FPC4	5
3¼"	Partially Threaded	42HA63	40
3½"	Partially Threaded	3FPC6	5
4"	Partially Threaded	3FPC7	5
	Fully Threaded	167G65	40
4½"	Partially Threaded	3FPC8	5
5"	Partially Threaded	3FPC9	5
5¼"	Partially Threaded	22TA42	5
8½"	Partially Threaded	25CL02	1
¾"-16 Fine			
1"	Fully Threaded	3FPE1	10
2"	Fully Threaded	22TE24	5
2½"	Fully Threaded	22TE25	5
2¾"	Partially Threaded	42HD92	45
3¼"	Partially Threaded	42HD94	40
4¼"	Partially Threaded	22TE26	5
4¾"	Partially Threaded	22TE27	5
8"	Partially Threaded	22TE32	1
⅞"-9 Coarse			
2"	Fully Threaded	22TA50	5
2½"	Fully Threaded	22TA52	5
3"	Partially Threaded	3FPG3	5
3¼"	Partially Threaded	25CL08	5
3½"	Partially Threaded	3FPG4	5
	Fully Threaded	41UC51	5
4"	Partially Threaded	3FPG5	5
4½"	Partially Threaded	3FPG6	5
5"	Partially Threaded	3FPG7	5
	Partially Threaded	42HA88	20
5½"	Partially Threaded	3FPG8	5
8"	Partially Threaded	156G40	15
⅞"-14 Fine			
3"	Partially Threaded	42HE12	30
4½"	Partially Threaded	3FPJ2	5
1 "-8 Coarse			
1¾"	Fully Threaded	25CL12	5
2"	Fully Threaded	36H236	5
2¼"	Fully Threaded	25CL13	5
4"	Partially Threaded	22TA68	5
5"	Partially Threaded	42HC04	15
7½"	Partially Threaded	156J18	12
8½"	Partially Threaded	25CL22	1
1 ⅛"-7 Coarse			
3"	Fully Threaded	25CL26	1
5"	Partially Threaded	25CL30	1
1 ¼"-7 Coarse			
3½"	Partially Threaded	25CL43	1
4"	Partially Threaded	25CL44	1
5"	Partially Threaded	25CL46	1
1 ½"-6 Coarse			
5"	Partially Threaded	42HC32	6
1 ½"-12 Fine			
10"	Partially Threaded	25CN31	1
Chrome Plated			
¼"-20 Coarse			
¾"	Fully Threaded	2FUD8	5
⅞"	Partially Threaded	2FUH8	5
1½"	Partially Threaded	2FUA2	5
1¾"	Partially Threaded	2FUB8	5
2"	Partially Threaded	2FUH9	5
¼"-28 Fine			
¾"	Fully Threaded	4GVK1	5
1"	Partially Threaded	4GVK3	5
1½"	Partially Threaded	4GVK5	5
2"	Partially Threaded	4GVK7	5
5/16"-18 Coarse			
¾"	Fully Threaded	2FUE2	5
1"	Partially Threaded	2FUR4	5
1½"	Partially Threaded	2FUJ1	5
2"	Partially Threaded	2FUN7	5
5/16"-24 Fine			
⅝"	Fully Threaded	4GVK9	5
1"	Partially Threaded	4GVL3	5
⅜"-16 Coarse			
¾"	Fully Threaded	2FUE4	5
1½"	Partially Threaded	2FUJ2	5
⅜"-24 Fine			
¾"	Fully Threaded	4GVL9	5
1½"	Partially Threaded	4GVN3	5
1¾"	Partially Threaded	4GVN4	5
2"	Partially Threaded	4GVN5	5
Zinc Plated			
¼"-20 Coarse			
½"	Fully Threaded	2CA46	100
⅝"	Fully Threaded	2CA48	100
¾"	Fully Threaded	2CA50	100
1"	Fully Threaded	2CA54	100
1¼"	Partially Threaded	1KA22	100
1½"	Partially Threaded	1KA23	100
2"	Partially Threaded	22RZ72	50
2½"	Partially Threaded	23KZ51	50
2¾"	Fully Threaded	41UD68	50
3"	Partially Threaded	23KZ53	50
3½"	Partially Threaded	42HG15	400
4½"	Partially Threaded	42HG19	325
¼"-28 Fine			
½"	Fully Threaded	2CA71	100
¾"	Fully Threaded	2CA75	100
1"	Fully Threaded	2CA76	100
4"	Partially Threaded	22TE53	25
6"	Partially Threaded	22TE57	25
5/16"-18 Coarse			
¾"	Fully Threaded	2CA82	100
1"	Fully Threaded	2CA86	100
1¼"	Fully Threaded	2CA89	100
1½"	Partially Threaded	1KA37	100
1¾"	Partially Threaded	22TA87	50
2"	Partially Threaded	22TA88	50
2½"	Partially Threaded	22TA90	50
2¾"	Fully Threaded	41UD85	50
3"	Partially Threaded	22TA92	50
3½"	Partially Threaded	1KA44	50
	Partially Threaded	42HG34	250
4"	Partially Threaded	22TA93	25
5"	Fully Threaded	41UD92	25
5/16"-24 Fine			
1"	Fully Threaded	25CN32	100
1¼"	Fully Threaded	25CN33	100
1½"	Partially Threaded	1KE31	100
⅜"-16 Coarse			
½"	Fully Threaded	22TC02	50
¾"	Fully Threaded	23KZ55	50
1"	Fully Threaded	23KZ56	50
1¼"	Fully Threaded	22TC05	50
1½"	Partially Threaded	22TC06	50
1¾"	Partially Threaded	23KZ57	50
2"	Partially Threaded	23KZ58	25
2½"	Partially Threaded	23KZ60	25
3"	Partially Threaded	23KZ61	25
3½"	Partially Threaded	22TC09	25
4"	Partially Threaded	23KZ62	10
5½"	Fully Threaded	41UE09	10
⅜"-24 Fine			
¾"	Fully Threaded	22TE71	50
1"	Fully Threaded	22TE73	50
1½"	Partially Threaded	22TE74	50
2"	Fully Threaded	41UE88	25
3"	Fully Threaded	41UE90	25
7/16"-14 Coarse			
1"	Fully Threaded	23KZ64	25
1¼"	Fully Threaded	22TC25	25
1½"	Fully Threaded	22TC26	25
1¾"	Partially Threaded	23KZ65	25
2"	Partially Threaded	23KZ66	25
2½"	Partially Threaded	23KZ68	10
3"	Partially Threaded	23KZ70	10
3½"	Partially Threaded	23KZ71	10
4"	Partially Threaded	23KZ72	10
5"	Partially Threaded	22TC28	10
12"	Partially Threaded	22TC36	5
7/16"-20 Fine			
¾"	Fully Threaded	22TE92	25
1"	Fully Threaded	22TE93	25
1½"	Fully Threaded	25CN36	25
5"	Partially Threaded	22TF03	10
½"-13 Coarse			
1"	Fully Threaded	23KZ74	25
1¼"	Fully Threaded	22TC38	25
1½"	Fully Threaded	22TC39	25
1¾"	Fully Threaded	22TC40	25
2"	Partially Threaded	23KZ75	10
2½"	Partially Threaded	22TC41	10
3"	Partially Threaded	23KZ77	10
3½"	Partially Threaded	23KZ78	10
4"	Partially Threaded	23KZ79	5
4¼"	Partially Threaded	42HG89	80
6"	Partially Threaded	22TC50	5
½"-20 Fine			
1"	Fully Threaded	22TF07	25
1½"	Fully Threaded	25CN38	25
4"	Fully Threaded	41UE97	5
	Fully Threaded	167K11	100
5½"	Partially Threaded	42HF31	65
	Partially Threaded	22TF19	5
9/16"-12 Coarse			
1½"	Fully Threaded	2CE51	25
2"	Fully Threaded	22TC56	10
3"	Partially Threaded	23KZ82	10
9/16"-18 Fine			
1½"	Fully Threaded	25CN39	25
1¾"	Partially Threaded	2CE69	25
2"	Fully Threaded	22TF25	10
3½"	Partially Threaded	22TF28	10
⅝"-11 Coarse			
1½"	Fully Threaded	22TC64	10
1¾"	Fully Threaded	22TC65	10
2"	Fully Threaded	22TC66	5
2½"	Partially Threaded	23KZ84	5
2¾"	Partially Threaded	22TC68	5
3"	Partially Threaded	22TC69	5
3¼"	Fully Threaded	41UE45	5
3½"	Partially Threaded	22TC70	5
4"	Partially Threaded	22TC71	5
5"	Partially Threaded	22TC75	5
6½"	Partially Threaded	42HH20	35
10"	Partially Threaded	22TC83	5
12"	Partially Threaded	22TC85	5
⅝"-18 Fine			
1¼"	Fully Threaded	2CU24	25
1½"	Fully Threaded	25CN41	10
2"	Fully Threaded	22TF34	5
	Fully Threaded	42HF47	95
2¾"	Partially Threaded	22TF36	5
3¼"	Partially Threaded	42HF52	65
4½"	Partially Threaded	22TF41	5
¾"-10 Coarse			
2"	Fully Threaded	22TC89	5
2½"	Fully Threaded	22TC90	5
3"	Partially Threaded	22TC92	5
3¼"	Fully Threaded	41UE58	5
3½"	Partially Threaded	22RZ74	5
4"	Partially Threaded	22TC94	5
4½"	Partially Threaded	22TA11	5
5"	Partially Threaded	22TC97	5
6"	Partially Threaded	22TD01	5
8½"	Partially Threaded	25CL90	1
¾"-16 Fine			
1"	Fully Threaded	22TF49	10
1¼"	Fully Threaded	2CU69	20
2¾"	Partially Threaded	42HF66	45
3½"	Fully Threaded	41UE99	5
4½"	Partially Threaded	22TA28	5
4¾"	Partially Threaded	22TF54	5
6"	Partially Threaded	22TF57	5
⅞"-9 Coarse			
2"	Fully Threaded	22TD07	5
2½"	Fully Threaded	22TD09	5
3"	Partially Threaded	22TA12	5
3½"	Partially Threaded	22TD10	5
	Fully Threaded	41UE74	5
4"	Partially Threaded	22TD11	5
4¼"	Partially Threaded	42HH37	20
4½"	Partially Threaded	22TD13	5
5"	Partially Threaded	22TD14	5
8"	Fully Threaded	41UE79	1
⅞"-14 Fine			
3½"	Partially Threaded	22TF62	5
1 "-8 Coarse			
3½"	Partially Threaded	25CM12	5
	Fully Threaded	41UE82	5
4"	Partially Threaded	22TD23	5
	Fully Threaded	41UE83	5
5"	Partially Threaded	22TD24	5
1 "-14 Fine			
2"	Fully Threaded	22TF68	5
3½"	Partially Threaded	22TF69	5
6"	Fully Threaded	30Z619	5
1 ⅛"-7 Coarse			
4½"	Partially Threaded	25CM26	1
5"	Partially Threaded	25CM27	1
1 ¼"-7 Coarse			
4½"	Partially Threaded	25CM39	1
6"	Partially Threaded	25CM42	1
7"	Partially Threaded	25CM44	1
8"	Partially Threaded	25CM45	1
1 ½"-6 Coarse			
6"	Partially Threaded	25CM55	1
7½"	Partially Threaded	25CM58	1

Grade 8 Steel Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Meet ASME B18.2.1 SAE J429 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
¼"-20 Coarse			
¾"	Fully Threaded	1RLY4	100
1"	Fully Threaded	38ZW12	100
¼"-28 Fine			
4"	Partially Threaded	38TR18	25
5/16"-18 Coarse			
¾"	Fully Threaded	1RLZ4	100
1"	Fully Threaded	38ZW15	100
⅜"-16 Coarse			
¾"	Fully Threaded	1RMB3	50
1"	Fully Threaded	1RMB4	50
1¼"	Fully Threaded	38ZW20	50
1½"	Fully Threaded	1RMB6	50
2"	Partially Threaded	6GZX8	25
½"-13 Coarse			
1¼"	Fully Threaded	1RMC6	25
1½"	Fully Threaded	39AA42	200
1¾"	Fully Threaded	38ZW34	25
2"	Partially Threaded	6HAJ9	10
	Partially Threaded	39AA44	160
2½"	Partially Threaded	6HAK0	10
9/16"-12 Coarse			
2"	Fully Threaded	38ZW49	10
3"	Partially Threaded	1RMD7	10
9/16"-18 Fine			
3½"	Partially Threaded	1RMV3	10
⅝"-11 Coarse			
2"	Fully Threaded	38ZW55	5
	Fully Threaded	39AA78	95
2½"	Partially Threaded	38TN82	5
3"	Partially Threaded	39AA82	70
3½"	Partially Threaded	39AA84	60
⅝"-18 Fine			
5½"	Partially Threaded	1RMW6	5
¾"-10 Coarse			
2"	Fully Threaded	38ZW63	5
	Fully Threaded	39AA94	60
2½"	Fully Threaded	38ZW65	5
	Fully Threaded	39AA96	50
3"	Partially Threaded	6HAK9	5
	Partially Threaded	39AA98	45
3½"	Partially Threaded	6HAL0	5
	Partially Threaded	39AC01	40
4"	Partially Threaded	6HAL1	5
6"	Partially Threaded	38TN92	5
	Partially Threaded	39AC09	25
⅞"-9 Coarse			
2¾"	Fully Threaded	39AC13	30
3"	Partially Threaded	1RMJ4	5
	Partially Threaded	39AC14	30
3½"	Partially Threaded	39AC16	25
4"	Partially Threaded	1RMJ6	5
4½"	Partially Threaded	1RMJ7	5
	Partially Threaded	39AC20	20
5"	Partially Threaded	39AC21	20
⅞"-14 Fine			
4"	Partially Threaded	1RMY7	5
1"-8 Coarse			
5"	Partially Threaded	38TN96	5
6"	Partially Threaded	1RMN2	1
	Partially Threaded	39AC35	14
1"-14 Fine			
3"	Fully Threaded	38ZY73	5
10"	Partially Threaded	38TR55	1
1⅛"-7 Coarse			
5"	Partially Threaded	38ZW92	1
1¼"-7 Coarse			
4"	Partially Threaded	39AC47	11
6"	Partially Threaded	38ZX09	1
	Partially Threaded	39AC51	8
6½"	Partially Threaded	39AC52	7
Zinc Yellow			
¼"-20 Coarse			
½"	Fully Threaded	1UE36	100
¾"	Fully Threaded	1UE38	100
1"	Fully Threaded	38ZX18	100
1¼"	Partially Threaded	1UE39	100
1½"	Partially Threaded	1UE40	100
1¾"	Partially Threaded	1UE41	100
2"	Partially Threaded	38TN98	50
2½"	Partially Threaded	38TP01	50
3"	Partially Threaded	38TP03	50
¼"-28 Fine			
½"	Fully Threaded	1UY94	100
¾"	Fully Threaded	1UY95	100
1"	Fully Threaded	38ZY88	100
1¼"	Partially Threaded	1UY97	100
1½"	Partially Threaded	1UY98	100
5/16"-18 Coarse			
¾"	Fully Threaded	1UE53	100
1"	Fully Threaded	38ZX21	100
	Fully Threaded	39AC71	700
1¼"	Fully Threaded	38ZX22	100
1½"	Partially Threaded	1UE55	100
1¾"	Partially Threaded	38TP10	50
2"	Partially Threaded	38TP11	50
2½"	Partially Threaded	38TP13	50
3"	Partially Threaded	38TP15	50
3½"	Partially Threaded	1UE62	50
5"	Partially Threaded	39AC85	175
5/16"-24 Fine			
¾"	Fully Threaded	1VA18	100
1"	Fully Threaded	38ZY94	100
1¼"	Fully Threaded	38ZY95	100
1½"	Partially Threaded	1VA20	100
2"	Partially Threaded	38TR64	50
⅜"-16 Coarse			
¾"	Fully Threaded	38TN20	50
1"	Fully Threaded	38TN22	50
1¼"	Fully Threaded	38ZX25	50
	Fully Threaded	39AC88	450
1½"	Partially Threaded	38TP21	50
1¾"	Partially Threaded	38TP22	50
2"	Partially Threaded	38TP23	25
2½"	Partially Threaded	38TP25	25
3"	Partially Threaded	38TP27	25
3½"	Partially Threaded	38TP28	25
⅜"-24 Fine			
1"	Fully Threaded	38TN52	50
1¼"	Fully Threaded	38ZY99	50
1½"	Partially Threaded	38TR73	50
2"	Partially Threaded	38TR75	25
2½"	Partially Threaded	38TR77	25
7/16"-14 Coarse			
1"	Fully Threaded	38TN24	25
1¼"	Fully Threaded	38ZX30	25
1½"	Fully Threaded	38ZX31	25
1¾"	Partially Threaded	38TP34	25
2"	Partially Threaded	38TP35	25
2½"	Partially Threaded	38TP37	10
3"	Partially Threaded	38TP39	10
3½"	Partially Threaded	38TP40	10
4"	Partially Threaded	38TP41	10
4½"	Partially Threaded	39AD17	100
7/16"-20 Fine			
1"	Fully Threaded	38TN54	25
1½"	Fully Threaded	38ZZ04	25
2"	Partially Threaded	38TR87	25
3"	Partially Threaded	38TR89	10
4"	Partially Threaded	38TR91	10
½"-13 Coarse			
1"	Fully Threaded	38TN26	25
1¼"	Fully Threaded	38TN27	25
1½"	Fully Threaded	38ZX34	25
	Fully Threaded	39AD21	200
1¾"	Fully Threaded	38ZX35	25
2"	Partially Threaded	38TP46	10
2¼"	Partially Threaded	38TP47	10
2½"	Partially Threaded	38TP48	10
	Partially Threaded	39AD25	130
2¾"	Partially Threaded	39AD26	110
3"	Partially Threaded	38TP50	10
	Partially Threaded	39AD27	110
3½"	Partially Threaded	38TP52	10
4"	Partially Threaded	38TP53	5
5"	Partially Threaded	38TP55	5
½"-20 Fine			
1"	Fully Threaded	38TN56	25
1½"	Fully Threaded	38ZZ10	25
	Fully Threaded	39AG47	200
2"	Partially Threaded	38TR95	10
9/16"-12 Coarse			
1"	Fully Threaded	1UY29	25
1¼"	Fully Threaded	1UY30	25
1½"	Fully Threaded	38ZX43	25
1¾"	Fully Threaded	38ZX44	10
2"	Fully Threaded	38ZX45	10
2¼"	Partially Threaded	38TP61	10
2½"	Partially Threaded	38TP62	10
3"	Partially Threaded	38TP63	10
3½"	Partially Threaded	38TP64	10
4"	Partially Threaded	38TP65	5
9/16"-18 Fine			
1"	Fully Threaded	1ZEA7	25
1½"	Fully Threaded	38ZZ14	25
6"	Partially Threaded	38TT14	5
⅝"-11 Coarse			
1½"	Fully Threaded	38TN30	10
1¾"	Fully Threaded	38ZX49	10
	Fully Threaded	39AD53	100
2"	Fully Threaded	38ZX50	5
2¼"	Partially Threaded	38TP70	5
2½"	Partially Threaded	38TP71	5
2¾"	Partially Threaded	39AD57	75
3"	Partially Threaded	38TP73	5
3½"	Partially Threaded	38TP75	5
	Partially Threaded	39AD60	60
4"	Partially Threaded	38TP76	5
5"	Partially Threaded	38TP78	5
	Partially Threaded	39AD64	45
6"	Partially Threaded	38TP80	5
⅝"-18 Fine			
1½"	Fully Threaded	38TN60	10
2"	Fully Threaded	38ZZ26	5
2½"	Partially Threaded	38TT16	5
3"	Partially Threaded	38TT18	5
3½"	Partially Threaded	38TT20	5
4½"	Partially Threaded	38TT23	5
	Partially Threaded	39AG88	45
5"	Partially Threaded	38TT24	5
¾"-10 Coarse			
1½"	Fully Threaded	38TN33	10
2"	Fully Threaded	38ZX60	5
	Fully Threaded	39AD68	60
2¼"	Fully Threaded	39AD69	55
2½"	Fully Threaded	38ZX62	5
	Fully Threaded	39AD70	50
3"	Partially Threaded	38TP84	5
3½"	Partially Threaded	38TP86	5
4"	Partially Threaded	38TP87	5
	Partially Threaded	39AD76	35
4½"	Partially Threaded	38TP88	5
	Partially Threaded	39AD78	30
5"	Partially Threaded	38TP89	5
5½"	Partially Threaded	38TP90	5
6"	Partially Threaded	38TP91	5
¾"-16 Fine			
2"	Fully Threaded	38ZZ30	5
2¼"	Fully Threaded	39AG94	55
3"	Partially Threaded	38TT29	5
3½"	Partially Threaded	39AG99	40
4"	Partially Threaded	38TT31	5
4½"	Partially Threaded	38TT32	5
5½"	Partially Threaded	38TT34	5
⅞"-9 Coarse			
2"	Fully Threaded	38TN35	5
2½"	Fully Threaded	38ZX71	5
2¾"	Fully Threaded	38ZX72	5
3"	Partially Threaded	38TP98	5
	Partially Threaded	39AD86	30
3½"	Partially Threaded	38TP99	5
4"	Partially Threaded	38TR01	5
	Partially Threaded	39AD90	25
4½"	Partially Threaded	38TR02	5
5"	Partially Threaded	38TR03	5
5½"	Partially Threaded	38TR04	5
	Partially Threaded	39AD93	20
6"	Partially Threaded	38TR05	1
⅞"-14 Fine			
3"	Partially Threaded	38TT40	5
1"-8 Coarse			
2½"	Fully Threaded	38ZX81	5
3"	Fully Threaded	38ZX83	5
3½"	Partially Threaded	38TR07	5
4"	Partially Threaded	38TR08	5
4½"	Partially Threaded	38TR09	5
5"	Partially Threaded	38TR10	5
5½"	Partially Threaded	38TR11	5
6"	Partially Threaded	38TR12	1
1"-14 Fine			
6"	Partially Threaded	38TT52	1
6½"	Partially Threaded	38ZZ53	1
1¼"-7 Coarse			
4"	Partially Threaded	39AE19	11

Grade 8 Steel Hex Head Cap Screws

- Meet ASME B18.2.1 SAE J429 standards

Length	Thread Style	Item No.	Pkg. Qty.
Armor Coat			
¼"-20 Coarse			
¾"	Fully Threaded	5DJR1	100
1"	Partially Threaded	5DJR2	100
2"	Partially Threaded	5DJR6	50
5/16"-18 Coarse			
¾"	Fully Threaded	5DJT3	50
1"	Partially Threaded	5DJT4	50
1½"	Partially Threaded	5DJT6	50
⅜"-16 Coarse			
1"	Fully Threaded	5DJU6	50
1¼"	Partially Threaded	5DJU7	50
1½"	Partially Threaded	5DJU8	50
7/16"-14 Coarse			
1"	Fully Threaded	5DJW0	25
1½"	Partially Threaded	5DJW1	25
2"	Partially Threaded	5DJW3	25
½"-13 Coarse			
1"	Fully Threaded	5DJX0	10
2"	Partially Threaded	5DJX3	10
2½"	Partially Threaded	5DJX5	10
⅝"-11 Coarse			
2"	Partially Threaded	5DJY6	10
3"	Partially Threaded	5DJZ0	5
3½"	Partially Threaded	5DJZ1	5
¾"-10 Coarse			
2½"	Partially Threaded	5DJZ9	5
3"	Partially Threaded	5DKA0	5
3½"	Partially Threaded	5DKA1	5
Black Oxide			
¼"-20 Coarse			
1"	Fully Threaded	2EA43	100
1½"	Partially Threaded	2EA47	100
2"	Partially Threaded	2EA52	50
3"	Fully Threaded	30Z833	50
¼"-28 Fine			
1½"	Partially Threaded	2EA64	100
4"	Partially Threaded	23LA51	25
5/16"-18 Coarse			
1"	Fully Threaded	22TF83	100
1¼"	Fully Threaded	22TF84	100
2"	Partially Threaded	2EA83	50
	Fully Threaded	41UF08	50
	Partially Threaded	30Z469	10
5/16"-24 Fine			
1"	Fully Threaded	23LA54	100
1¼"	Fully Threaded	19NT78	100
⅜"-16 Coarse			
1"	Fully Threaded	10E542	50
1¼"	Fully Threaded	10E543	50
1½"	Fully Threaded	41UF14	50
2½"	Partially Threaded	2EB27	25
⅜"-24 Fine			
1¼"	Fully Threaded	2EB48	50
1¾"	Partially Threaded	22TJ27	50
2"	Fully Threaded	30Z872	25
7/16"-14 Coarse			
1½"	Fully Threaded	2EB69	25
5"	Fully Threaded	21C398	10
7/16"-20 Fine			
1½"	Fully Threaded	2EB90	25
2"	Partially Threaded	19NR70	25
6"	Fully Threaded	30Z881	10
½"-13 Coarse			
1"	Fully Threaded	6YAR3	25
1½"	Fully Threaded	2EE19	25
1¾"	Fully Threaded	2EE21	25
2"	Partially Threaded	2EE24	10
	Fully Threaded	167K43	170
2½"	Partially Threaded	2EE28	10
3½"	Fully Threaded	167K48	120
½"-20 Fine			
1¼"	Fully Threaded	22TJ36	25
1¾"	Fully Threaded	2EE51	25
9/16"-12 Coarse			
1½"	Fully Threaded	22TG20	25
9/16"-18 Fine			
1½"	Fully Threaded	25CR80	25
⅝"-11 Coarse			
2"	Fully Threaded	30Z490	5
2¼"	Partially Threaded	22TG23	5
2½"	Partially Threaded	22TG24	5
3"	Partially Threaded	22TG26	5
3½"	Partially Threaded	2EE98	5
4"	Fully Threaded	167F53	60
7"	Partially Threaded	2EU27	5

Length	Thread Style	Item No.	Pkg. Qty.
⅝"-18 Fine			
5"	Fully Threaded	21C452	5
	Fully Threaded	167F66	55
¾"-10 Coarse			
2"	Fully Threaded	2EU49	5
2½"	Fully Threaded	12N688	5
3"	Partially Threaded	2EU62	5
3½"	Partially Threaded	2EU67	5
4"	Partially Threaded	2EU71	5
	Fully Threaded	21C423	5
4½"	Partially Threaded	42HK69	30
5"	Partially Threaded	2EU77	5
6"	Partially Threaded	22TA54	5
	Fully Threaded	167F61	30
8"	Partially Threaded	2EU90	1
¾"-16 Fine			
3½"	Fully Threaded	21C454	5
4"	Partially Threaded	2EY19	5
4½"	Partially Threaded	2EY22	5
⅞"-9 Coarse			
3"	Partially Threaded	42HK82	30
3½"	Partially Threaded	6RMD5	5
4"	Partially Threaded	6RMD6	5
	Fully Threaded	30Z927	5
4½"	Fully Threaded	30Z928	5
7½"	Partially Threaded	25CN99	1
9"	Partially Threaded	6RME5	1
9½"	Partially Threaded	6RME6	1
⅞"-14 Fine			
4½"	Partially Threaded	6RMF1	5
10"	Partially Threaded	25CT11	1
1"-8 Coarse			
3½"	Fully Threaded	30Z932	5
4"	Fully Threaded	30Z933	5
6"	Fully Threaded	21C438	1
	Partially Threaded	6RMG2	1
7"	Partially Threaded	6RMG4	1
8"	Fully Threaded	21C439	1
10"	Partially Threaded	6RMG9	1
1 1/8"-7 Coarse			
4"	Partially Threaded	2EY38	1
7½"	Partially Threaded	29DK67	1
8"	Partially Threaded	22TG67	1
1 1/8"-12 Fine			
3½"	Partially Threaded	25CT14	1
4½"	Partially Threaded	38ZY79	1
8"	Partially Threaded	25CT21	1
1 ¼"-7 Coarse			
4"	Partially Threaded	2EY70	1
5½"	Partially Threaded	2EY77	1
6"	Partially Threaded	42HL27	8
6½"	Partially Threaded	2EY81	1
8"	Partially Threaded	22TG72	1
10"	Partially Threaded	22TG74	1
16"	Partially Threaded	2EY98	1
1 ¼"-12 Fine			
4"	Partially Threaded	2FA10	1
6"	Partially Threaded	2FA15	1
8"	Partially Threaded	2FA19	1
1 ½"-6 Coarse			
4½"	Partially Threaded	22TG78	1
5"	Partially Threaded	25CP23	1
7"	Partially Threaded	156K27	5
7½"	Partially Threaded	156N27	5
10"	Partially Threaded	22TG81	1
1 ½"-12 Fine			
3"	Fully Threaded	29DK93	1
7"	Partially Threaded	156K94	5
	Partially Threaded	25CT33	1
Zinc Yellow			
¼"-20 Coarse			
¾"	Fully Threaded	10E541	100
1"	Fully Threaded	10H330	100
1½"	Partially Threaded	10E547	100
2"	Partially Threaded	22TA57	50
2½"	Partially Threaded	25CP29	50
5/16"-18 Coarse			
¾"	Fully Threaded	10H332	100
1"	Fully Threaded	10H333	100
1¼"	Fully Threaded	10H334	100
1½"	Partially Threaded	10E552	100
2"	Partially Threaded	23LA27	50
2½"	Partially Threaded	22TG97	50
3"	Partially Threaded	23LA28	50

Length	Thread Style	Item No.	Pkg. Qty.
⅜"-16 Coarse			
¾"	Fully Threaded	23LA31	50
1"	Fully Threaded	23LA32	50
1¼"	Fully Threaded	22TH05	50
1½"	Partially Threaded	22TH06	50
	Partially Threaded	30Z432	10
1¾"	Partially Threaded	22TH07	50
2"	Partially Threaded	23LA33	25
2½"	Partially Threaded	22TH09	25
3"	Partially Threaded	30Z436	5
	Partially Threaded	23LA34	25
7/16"-14 Coarse			
1½"	Fully Threaded	23LA37	25
½"-13 Coarse			
1"	Fully Threaded	23LA44	25
1¼"	Fully Threaded	22TH30	25
1½"	Fully Threaded	22TH31	25
1¾"	Fully Threaded	22TH32	25
2"	Partially Threaded	23LA45	10
	Fully Threaded	167L09	170
2½"	Partially Threaded	22TH34	10
3"	Partially Threaded	23LA46	10
3½"	Partially Threaded	22TH36	10
	Partially Threaded	30Z444	5
4"	Partially Threaded	23LA48	5
5"	Partially Threaded	22TH40	5
6"	Partially Threaded	22TH43	5
½"-20 Fine			
2"	Partially Threaded	25DN69	10
⅝"-11 Coarse			
1½"	Fully Threaded	30Z447	10
2"	Fully Threaded	42HM75	95
	Fully Threaded	30Z449	5
2½"	Partially Threaded	22TH55	5
	Fully Threaded	167L21	85
3"	Partially Threaded	22TH57	5
3½"	Partially Threaded	22TH58	5
4"	Partially Threaded	22TH59	5
	Fully Threaded	21C497	5
¾"-10 Coarse			
1½"	Fully Threaded	22TH72	10
2"	Fully Threaded	30Z455	5
2½"	Fully Threaded	30Z456	5
3"	Partially Threaded	22TH77	5
3½"	Partially Threaded	22TH79	5
4"	Partially Threaded	22TH80	5
4½"	Partially Threaded	22TH82	5
5"	Partially Threaded	22TH84	5
5½"	Partially Threaded	22TH86	5
6"	Partially Threaded	22TH87	5
¾"-16 Fine			
2½"	Fully Threaded	25CU10	5
⅞"-14 Fine			
4½"	Partially Threaded	22TK62	5
5"	Partially Threaded	22TK63	5
1"-8 Coarse			
4"	Partially Threaded	22TJ07	5
4½"	Partially Threaded	22TJ09	5
5"	Partially Threaded	22TJ10	5
6"	Partially Threaded	22TJ12	1
6½"	Partially Threaded	22TJ13	1
1"-14 Fine			
10"	Partially Threaded	25CV03	1
1 1/8"-7 Coarse			
5½"	Partially Threaded	25CR14	1
1 1/8"-12 Fine			
7"	Partially Threaded	25CU35	1
9"	Partially Threaded	25CU38	1
1 ¼"-7 Coarse			
5"	Partially Threaded	25CR27	1
5½"	Partially Threaded	25CR28	1
6"	Partially Threaded	25CR29	1
7"	Partially Threaded	25CR31	1
1 ¼"-12 Fine			
2½"	Fully Threaded	38ZT96	1
5"	Partially Threaded	42HV71	9
1 ½"-6 Coarse			
3"	Fully Threaded	25CR36	1
7½"	Partially Threaded	25CR45	1
9"	Partially Threaded	25CR47	1
1 ½"-12 Fine			
5"	Partially Threaded	25CU56	1
7"	Partially Threaded	156L21	5

Grade 9 Steel Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Meet ASME B18.2.1 standards
- Fully threaded

Length	Item No.	Pkg. Qty.
Zinc Yellow		
¼"-20 Coarse		
½"	452F37	100
1"	452F39	100
3"	452F45	100
¼"-28 Fine		
1"	452F49	100
2"	452F53	100
3"	452F55	100
5⁄16"-18 Coarse		
1"	452F58	100
1¼"	452F59	100
2½"	452F64	100
5⁄16"-24 Fine		
1¼"	452F71	100
2"	452F74	100
3"	452F76	100
⅜"-16 Coarse		
1¼"	452F80	100
1½"	452F81	100
5"	452F90	50
⅜"-24 Fine		
¾"	452F92	100
1"	452F93	100
1¼"	452F94	100
7⁄16"-14 Coarse		
1½"	452G07	50
2½"	452G10	50
3"	452G11	50
7⁄16"-20 Fine		
1"	452G16	100
2"	452G20	50
3"	452G22	50
½"-13 Coarse		
1"	452G26	50
3"	452G34	50
3½"	452G35	25
4"	452G36	25
½"-20 Fine		
1"	452G42	50
7"	452G55	25
8"	452G56	25
9⁄16"-12 Coarse		
2"	452G59	25
2½"	452G60	25
4"	452G63	25
⅝"-11 Coarse		
1¾"	452G74	25
2"	452G75	25
2½"	452G77	25
5"	452G83	25
⅝"-18 Fine		
2¼"	452G93	25
2¾"	452G95	25
7"	452H04	25
¾"-10 Coarse		
2½"	452H11	20
3"	452H13	20
5"	452H18	20
¾"-16 Fine		
3"	452H29	20
5"	452H33	20
8"	452H37	20
⅞"-9 Coarse		
2½"	452H39	15
3"	452H40	15
5½"	452H45	15
1 "-8 Coarse		
4"	452H64	10
8"	452H70	10
1 "-14 Fine		
3"	452H72	10
8"	452H80	10
1 ¼"-7 Coarse		
3½"	452J27	8
5"	452J30	6
1 ¼"-12 Fine		
3½"	452J40	8
5½"	452J44	6

Class 8.8 Steel Hex Head Cap Screws

- Coarse threads - Fully threaded meet DIN 933 standards; partially threaded meet DIN 931 standards
- Fine threads - Fully threaded meet DIN 961 standards; partially threaded meet DIN 960 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
M5-0.80 Coarse			
16-mm	Fully Threaded	25DD10	100
M6-1 .00 Coarse			
14-mm	Fully Threaded	25DD20	100
16-mm	Fully Threaded	25DD21	100
20-mm	Fully Threaded	25DD23	100
25-mm	Fully Threaded	25DD25	100
M8-1 .25 Coarse			
16-mm	Fully Threaded	25DD43	100
30-mm	Fully Threaded	25DD48	100
50-mm	Fully Threaded	25DD52	100
60-mm	Partially Threaded	25CV89	100
75-mm	Partially Threaded	25CV92	100
M8-1 .00 Fine			
35-mm	Fully Threaded	25DJ50	100
M10-1 .50 Coarse			
30-mm	Fully Threaded	25DD64	100
40-mm	Fully Threaded	25DD66	50
50-mm	Fully Threaded	25DD68	50
80-mm	Partially Threaded	25CW10	50
150-mm	Fully Threaded	38CG50	25
M10-1 .25 Fine			
20-mm	Fully Threaded	25DJ52	100
30-mm	Fully Threaded	25DJ54	100
40-mm	Fully Threaded	25DJ56	50
M10-1 .00 Extra Fine			
20-mm	Fully Threaded	38CH75	50
M12-1 .75 Coarse			
25-mm	Fully Threaded	25DD80	50
30-mm	Fully Threaded	25DD81	50
40-mm	Fully Threaded	25DD83	50
45-mm	Fully Threaded	25DD84	50
55-mm	Fully Threaded	25DD86	50
65-mm	Fully Threaded	25DD88	50
150-mm	Partially Threaded	25CW37	25
M14-2.00 Coarse			
20-mm	Fully Threaded	25DD96	50
M16-2.00 Coarse			
30-mm	Fully Threaded	25DE11	25
50-mm	Fully Threaded	42FP35	75
60-mm	Fully Threaded	25DE17	25
80-mm	Partially Threaded	25CW63	10
100-mm	Fully Threaded	42FP42	50
M16-1 .50 Fine			
40-mm	Fully Threaded	25DJ78	25
50-mm	Fully Threaded	25DJ80	25
100-mm	Partially Threaded	25DH96	10
M18-1 .50 Fine			
45-mm	Fully Threaded	38CH87	25
70-mm	Partially Threaded	38CH52	10
200-mm	Partially Threaded	38CH64	5
M20-2.50 Coarse			
80-mm	Fully Threaded	25DE47	10
140-mm	Fully Threaded	42FP71	20
180-mm	Fully Threaded	25DE53	5
200-mm	Fully Threaded	25DE54	5
M22-2.50 Coarse			
240-mm	Partially Threaded	25CX40	5
M24-3.00 Coarse			
40-mm	Fully Threaded	25DE63	10
90-mm	Partially Threaded	42FM99	20
	Fully Threaded	25DE71	5
M30-3.50 Coarse			
130-mm	Partially Threaded	25CX77	5
150-mm	Partially Threaded	25CX79	5
300-mm	Partially Threaded	25CX85	5
M36-4.00 Coarse			
110-mm	Partially Threaded	25CX91	5
140-mm	Partially Threaded	25CX94	5
260-mm	Partially Threaded	25CY02	1
M42-4.50 Coarse			
140-mm	Partially Threaded	25CY05	1
180-mm	Partially Threaded	25CY07	1
Hot Dipped Galvanized			
M10-1 .50 Coarse			
30-mm	Fully Threaded	38CR71	50
35-mm	Fully Threaded	38CR72	50
M12-1 .75 Coarse			
30-mm	Fully Threaded	38CR73	50
35-mm	Fully Threaded	38CR74	50
40-mm	Fully Threaded	38CR75	50
M16-2.00 Coarse			
40-mm	Fully Threaded	38CR82	25
50-mm	Fully Threaded	38CR84	25
M20-2.50 Coarse			
80-mm	Partially Threaded	38CR53	10
120-mm	Partially Threaded	38CR57	10
M24-3.00 Coarse			
140-mm	Partially Threaded	38CR67	5

Length	Thread Style	Item No.	Pkg. Qty.
Zinc Plated			
M4-0.70 Coarse			
10-mm	Fully Threaded	6AU63	100
12-mm	Fully Threaded	6AU64	100
16-mm	Fully Threaded	6AU65	100
20-mm	Fully Threaded	6AU66	100
25-mm	Fully Threaded	6AU67	100
M5-0.80 Coarse			
12-mm	Fully Threaded	6AU74	100
16-mm	Fully Threaded	6AU75	100
20-mm	Fully Threaded	6AU76	100
25-mm	Fully Threaded	6AU77	100
50-mm	Fully Threaded	6AU82	100
80-mm	Partially Threaded	25CY19	100
M6-1 .00 Coarse			
12-mm	Fully Threaded	6AU86	100
16-mm	Fully Threaded	6AU87	100
20-mm	Fully Threaded	6AU89	100
25-mm	Fully Threaded	6AU90	100
30-mm	Fully Threaded	6AU91	100
50-mm	Fully Threaded	6AU95	100
M7-1 .00 Coarse			
20-mm	Fully Threaded	6AU98	100
25-mm	Fully Threaded	6AU99	100
30-mm	Fully Threaded	6AV13	100
M8-1 .25 Coarse			
16-mm	Fully Threaded	6AV21	100
20-mm	Fully Threaded	6AV25	100
25-mm	Fully Threaded	6AV27	100
30-mm	Fully Threaded	6AV28	100
35-mm	Fully Threaded	6AV29	100
40-mm	Fully Threaded	6AV31	100
50-mm	Fully Threaded	22TN03	100
M10-1 .50 Coarse			
20-mm	Fully Threaded	22TN05	100
25-mm	Fully Threaded	22TN06	100
30-mm	Fully Threaded	22TN07	100
35-mm	Fully Threaded	22TN08	100
40-mm	Fully Threaded	22TN09	50
50-mm	Fully Threaded	22TN11	50
M10-1 .25 Fine			
25-mm	Fully Threaded	6BA26	25
30-mm	Fully Threaded	6BA27	25
40-mm	Fully Threaded	6BA29	25
M10-1 .00 Extra Fine			
40-mm	Fully Threaded	6BA30	25
50-mm	Partially Threaded	6BA56	25
M12-1 .75 Coarse			
25-mm	Fully Threaded	22TN14	50
30-mm	Fully Threaded	22TN15	50
35-mm	Fully Threaded	22TN16	50
40-mm	Fully Threaded	22TN17	50
50-mm	Fully Threaded	22TN19	50
60-mm	Partially Threaded	22TL56	50
M12-1 .25 Extra Fine			
35-mm	Fully Threaded	6BA34	10
45-mm	Fully Threaded	1GLZ6	10
M14-2.00 Coarse			
30-mm	Fully Threaded	22TN21	50
35-mm	Fully Threaded	22TN22	50
40-mm	Fully Threaded	22TN23	50
M14-1 .50 Fine			
30-mm	Fully Threaded	6BA43	10
40-mm	Fully Threaded	6BA45	10
50-mm	Fully Threaded	6BA46	5
M16-2.00 Coarse			
40-mm	Fully Threaded	22TN30	25
45-mm	Fully Threaded	22TN31	25
50-mm	Fully Threaded	22TN32	25
60-mm	Partially Threaded	22TL80	25
90-mm	Fully Threaded	25DF48	10
110-mm	Fully Threaded	38CK79	10
150-mm	Fully Threaded	38CK82	10
	Partially Threaded	22TL90	10
M20-2.50 Coarse			
60-mm	Partially Threaded	6AY88	10
70-mm	Partially Threaded	6AY89	10
90-mm	Fully Threaded	42FX49	30
100-mm	Fully Threaded	25DF65	10
M24-3.00 Coarse			
90-mm	Partially Threaded	42FV75	20
120-mm	Partially Threaded	42FV78	15
Zinc Yellow			
M6-1 .00 Coarse			
20-mm	Fully Threaded	38CM48	100
30-mm	Partially Threaded	38CL25	100
130-mm	Partially Threaded	38CL38	50
M8-1 .25 Coarse			
50-mm	Fully Threaded	156W47	500
70-mm	Fully Threaded	38CM75	100
80-mm	Fully Threaded	156W51	400
M10-1 .50 Coarse			
50-mm	Fully Threaded	38CM89	50
200-mm	Partially Threaded	38CL72	25
M12-1 .75 Coarse			
30-mm	Fully Threaded	38CN02	50
40-mm	Fully Threaded	38CN04	50
60-mm	Partially Threaded	38CL77	50
M16-1 .50 Fine			
60-mm	Partially Threaded	38CN70	25

Class 10.9 Steel Hex Head Cap Screws

- Coarse threads - Fully threaded meet DIN 933 standards; partially threaded meet DIN 931 standards
- Fine threads - Fully threaded meet DIN 961 standards; partially threaded meet DIN 960 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
M6-1 .00 Coarse			
16-mm	Fully Threaded	25DF81	100
20-mm	Fully Threaded	25DF82	100
25-mm	Fully Threaded	25DF83	100
M8-1 .25 Coarse			
16-mm	Fully Threaded	25DF90	100
20-mm	Fully Threaded	25DF91	100
25-mm	Fully Threaded	25DF92	100
30-mm	Fully Threaded	25DF93	100
35-mm	Fully Threaded	25DF94	100
40-mm	Fully Threaded	25DF95	100
45-mm	Partially Threaded	25CY79	100
50-mm	Partially Threaded	25CY80	100
	Fully Threaded	25DF96	100
60-mm	Partially Threaded	25CY81	100
70-mm	Partially Threaded	25CY82	100
100-mm	Partially Threaded	25CY85	50
M10-1 .50 Coarse			
16-mm	Fully Threaded	25DF97	100
20-mm	Fully Threaded	25DF98	100
25-mm	Fully Threaded	25DF99	100
30-mm	Fully Threaded	25DG01	100
35-mm	Fully Threaded	25DG02	100
40-mm	Fully Threaded	25DG03	50
	Partially Threaded	25CY88	50
45-mm	Partially Threaded	25CY89	50
50-mm	Fully Threaded	25DG04	50
55-mm	Partially Threaded	25CY91	50
60-mm	Fully Threaded	25DG05	50
	Partially Threaded	25CY92	50
70-mm	Partially Threaded	25CY94	50
75-mm	Partially Threaded	25CY95	50
80-mm	Fully Threaded	25DG07	50
90-mm	Partially Threaded	25CY97	50
100-mm	Fully Threaded	25DG08	50
200-mm	Partially Threaded	156M87	100
M10-1 .25 Fine			
20-mm	Fully Threaded	42GD07	400
25-mm	Fully Threaded	25DJ88	100
30-mm	Fully Threaded	25DJ89	100
M12-1 .75 Coarse			
16-mm	Fully Threaded	25DG09	50
20-mm	Fully Threaded	25DG10	50
25-mm	Fully Threaded	25DG11	50
30-mm	Fully Threaded	25DG12	50
35-mm	Fully Threaded	25DG13	50
40-mm	Fully Threaded	25DG14	50
	Partially Threaded	6AE27	10
45-mm	Fully Threaded	25DG15	50
	Partially Threaded	25CZ07	50
50-mm	Partially Threaded	25CZ08	50
	Fully Threaded	25DG16	50
55-mm	Partially Threaded	25CZ09	50
60-mm	Partially Threaded	25CZ10	50
	Fully Threaded	25DG17	50
65-mm	Partially Threaded	25CZ11	50
70-mm	Partially Threaded	25CZ12	25
80-mm	Partially Threaded	25CZ14	25
90-mm	Partially Threaded	25CZ15	25
140-mm	Partially Threaded	25CZ20	25
M12-1 .50 Fine			
60-mm	Partially Threaded	25DJ14	50
M14-2.00 Coarse			
30-mm	Fully Threaded	25DG23	50
35-mm	Fully Threaded	25DG24	50
40-mm	Fully Threaded	25DG25	50
50-mm	Fully Threaded	25DG27	25
80-mm	Partially Threaded	25CZ30	25
M14-1 .50 Fine			
30-mm	Fully Threaded	25DJ98	50
40-mm	Fully Threaded	25DK01	50
60-mm	Fully Threaded	38CV09	25
M16-2.00 Coarse			
30-mm	Fully Threaded	25DG30	25
35-mm	Fully Threaded	25DG31	25
40-mm	Fully Threaded	25DG32	25
45-mm	Fully Threaded	25DG33	25
50-mm	Fully Threaded	25DG34	25
	Partially Threaded	6AE43	5
55-mm	Fully Threaded	25DG35	25
60-mm	Fully Threaded	25DG36	25
	Partially Threaded	25CZ38	25
70-mm	Partially Threaded	25CZ40	10
	Fully Threaded	25DG37	10
80-mm	Partially Threaded	25CZ42	10
90-mm	Partially Threaded	25CZ43	10
120-mm	Partially Threaded	25CZ46	10
140-mm	Partially Threaded	25CZ48	10
150-mm	Partially Threaded	25CZ49	10
M16-1 .50 Fine			
30-mm	Fully Threaded	25DK03	25
40-mm	Fully Threaded	25DK05	25
50-mm	Fully Threaded	25DK07	25
M18-2.50 Coarse			
45-mm	Fully Threaded	25DG43	25
50-mm	Fully Threaded	25DG44	25
70-mm	Partially Threaded	25CZ58	10
M18-1 .50 Fine			
40-mm	Fully Threaded	38CV20	10
50-mm	Fully Threaded	38CV21	10
60-mm	Fully Threaded	38CV22	10
M20-2.50 Coarse			
50-mm	Fully Threaded	25DG49	10
55-mm	Fully Threaded	25DG50	10
60-mm	Fully Threaded	25DG51	10
70-mm	Fully Threaded	25DG52	10
80-mm	Partially Threaded	25CZ67	10
	Fully Threaded	25DG53	10
90-mm	Partially Threaded	25CZ68	10
120-mm	Partially Threaded	25CZ71	10
140-mm	Partially Threaded	25CZ73	10
150-mm	Partially Threaded	25CZ74	10
180-mm	Partially Threaded	25CZ76	5
200-mm	Partially Threaded	25CZ77	5
220-mm	Partially Threaded	25CZ78	5
M20-1 .50 Fine			
50-mm	Fully Threaded	38CV25	10
60-mm	Fully Threaded	157A98	50
	Fully Threaded	38CV26	10
90-mm	Partially Threaded	38CU99	10
M22-2.50 Coarse			
80-mm	Fully Threaded	25DG59	10
M24-3.00 Coarse			
60-mm	Fully Threaded	25DG63	10
70-mm	Fully Threaded	25DG65	10
80-mm	Fully Threaded	6AB96	10
90-mm	Partially Threaded	25CZ91	5
100-mm	Partially Threaded	25CZ92	5
	Fully Threaded	25DG67	5
140-mm	Partially Threaded	25CZ96	5
150-mm	Partially Threaded	25CZ97	5
160-mm	Partially Threaded	156M36	20
200-mm	Partially Threaded	25DA01	5
280-mm	Partially Threaded	25DA05	5
M24-2.00 Fine			
70-mm	Fully Threaded	25DK10	10
M30-3.50 Coarse			
100-mm	Partially Threaded	42FZ42	10
110-mm	Partially Threaded	42FZ43	10
120-mm	Partially Threaded	42FZ44	10
140-mm	Partially Threaded	25DA17	5
200-mm	Partially Threaded	25DA22	5
220-mm	Partially Threaded	25DA23	5
260-mm	Partially Threaded	25DA25	5
M36-4.00 Coarse			
70-mm	Fully Threaded	42GA92	10
140-mm	Partially Threaded	25DA37	5
160-mm	Partially Threaded	25DA39	5
Blue Phosphate			
M8-1 .25 Coarse			
25-mm	Fully Threaded	5AHF8	50
30-mm	Fully Threaded	5AHF9	50
60-mm	Partially Threaded	5AHG2	25
M12-1 .75 Coarse			
40-mm	Fully Threaded	5AHH0	10
50-mm	Partially Threaded	5AHH1	10
70-mm	Partially Threaded	5AHH3	10
M16-2.00 Coarse			
60-mm	Partially Threaded	5AHJ0	5
90-mm	Partially Threaded	5AHJ3	5
100-mm	Partially Threaded	5AHJ4	5
M20-2.50 Coarse			
90-mm	Partially Threaded	5AHJ9	5
100-mm	Partially Threaded	5AHK0	5
140-mm	Partially Threaded	5AHK4	5
Zinc Yellow			
M6-1 .00 Coarse			
12-mm	Fully Threaded	6AE65	100
16-mm	Fully Threaded	6AE66	100
20-mm	Fully Threaded	6AE67	100
25-mm	Fully Threaded	6AE68	100
30-mm	Fully Threaded	6AE69	100
35-mm	Fully Threaded	23LC57	100
40-mm	Partially Threaded	6AJ90	100
50-mm	Partially Threaded	6AJ92	100
M8-1 .25 Coarse			
16-mm	Fully Threaded	22TN40	100
20-mm	Fully Threaded	22TN41	100
25-mm	Fully Threaded	23LC58	100
30-mm	Fully Threaded	23LC59	100
	Partially Threaded	6AJ95	25
35-mm	Fully Threaded	23LC60	100
40-mm	Partially Threaded	6AJ96	25
	Fully Threaded	38CU15	100
50-mm	Partially Threaded	23LC49	100
60-mm	Partially Threaded	22TM15	100
70-mm	Partially Threaded	22TM16	100
80-mm	Partially Threaded	22TM17	100
100-mm	Partially Threaded	22TM19	50
M10-1 .50 Coarse			
16-mm	Fully Threaded	22TN42	100
20-mm	Fully Threaded	23LC61	100
25-mm	Fully Threaded	23LC62	100
30-mm	Fully Threaded	23LC63	100
35-mm	Fully Threaded	23LC64	100
	Partially Threaded	6AU14	25
40-mm	Partially Threaded	6AU15	25
	Fully Threaded	38CU17	100
50-mm	Partially Threaded	23LC50	50
60-mm	Partially Threaded	22TM20	50
70-mm	Partially Threaded	22TM21	50
80-mm	Partially Threaded	38CT81	50
90-mm	Partially Threaded	22TM22	50
100-mm	Partially Threaded	22TM23	50
M12-1 .75 Coarse			
20-mm	Fully Threaded	22TN43	50
25-mm	Fully Threaded	23LC65	50
30-mm	Fully Threaded	23LC66	50
35-mm	Fully Threaded	23LC67	50
40-mm	Fully Threaded	22TN44	50
	Partially Threaded	6AU23	10
45-mm	Partially Threaded	6AU24	10
50-mm	Partially Threaded	23LC51	50
	Fully Threaded	38CU21	50
60-mm	Partially Threaded	23LC52	50
	Fully Threaded	38CU22	50
70-mm	Partially Threaded	22TM26	25
80-mm	Partially Threaded	22TM27	25
90-mm	Partially Threaded	22TM28	25
100-mm	Partially Threaded	22TM29	25
110-mm	Partially Threaded	22TM30	25
120-mm	Partially Threaded	22TM31	25
M14-2.00 Coarse			
25-mm	Fully Threaded	6AE95	25
30-mm	Fully Threaded	22TN45	50
35-mm	Fully Threaded	23LC68	50
40-mm	Fully Threaded	23LC69	50
45-mm	Fully Threaded	22TN46	25
50-mm	Partially Threaded	22TM32	25
	Fully Threaded	22TN47	25
60-mm	Partially Threaded	22TM33	25
	Fully Threaded	6AJ23	10
70-mm	Partially Threaded	22TM34	25
80-mm	Partially Threaded	22TM35	25
100-mm	Partially Threaded	22TM37	25
M16-2.00 Coarse			
30-mm	Fully Threaded	23LC70	25
35-mm	Fully Threaded	23LC71	25
40-mm	Fully Threaded	23LC72	25
45-mm	Fully Threaded	23LC73	25
50-mm	Fully Threaded	23LC74	25
	Partially Threaded	6AU39	5
55-mm	Fully Threaded	6AJ48	10
60-mm	Partially Threaded	23LC53	25
70-mm	Partially Threaded	23LC54	10
80-mm	Partially Threaded	23LC55	10
90-mm	Partially Threaded	23LC56	10
100-mm	Partially Threaded	42FZ78	50
	Partially Threaded	22TM38	10
110-mm	Partially Threaded	22TM39	10
120-mm	Partially Threaded	22TM40	10
M20-2.50 Coarse			
40-mm	Fully Threaded	22TN48	10
50-mm	Fully Threaded	22TN50	10
55-mm	Fully Threaded	22TN51	10
60-mm	Fully Threaded	22TN52	10
65-mm	Fully Threaded	6AJ68	5
70-mm	Fully Threaded	38CU29	10
	Partially Threaded	22TM42	10
80-mm	Partially Threaded	22TM43	10
	Fully Threaded	157A12	50
90-mm	Partially Threaded	22TM44	10
100-mm	Partially Threaded	22TM45	10
110-mm	Partially Threaded	22TM46	10
120-mm	Partially Threaded	22TM47	10
M24-3.00 Coarse			
50-mm	Fully Threaded	22TN53	10
70-mm	Fully Threaded	22TN54	10
80-mm	Fully Threaded	22TN55	10
110-mm	Partially Threaded	22TM50	5

18-8 Stainless Steel Hex Head Cap Screws

- Meet ASME B18.2.1 standards

Length	Thread Style	Item No.	Pkg. Qty.
NL-19			
¼"-20 Coarse			
¾"	Fully Threaded	**36RG11**	100
1"	Fully Threaded	**36RG15**	100
1¼"	Fully Threaded	**36RG20**	100
	Partially Threaded	**36RG18**	50
2"	Fully Threaded	**36RG27**	50
5⁄16"-18 Coarse			
1"	Fully Threaded	**36RG39**	50
1¼"	Fully Threaded	**36RG44**	50
1½"	Fully Threaded	**36RG49**	50
1¾"	Partially Threaded	**36RG51**	25
2"	Fully Threaded	**36RG52**	25
2½"	Partially Threaded	**36RG57**	10
⅜"-16 Coarse			
1"	Fully Threaded	**36RG72**	50
1½"	Partially Threaded	**36RG80**	25
1¾"	Partially Threaded	**36RG84**	25
2"	Fully Threaded	**36RG90**	25
	Partially Threaded	**36RG88**	10
2½"	Fully Threaded	**36RG96**	25
	Partially Threaded	**36RG94**	10
3"	Fully Threaded	**36RH01**	25
7⁄16"-14 Coarse			
2"	Partially Threaded	**36RH14**	10
½"-13 Coarse			
1¼"	Fully Threaded	**36RH20**	25
1½"	Fully Threaded	**36RH24**	25
2"	Fully Threaded	**36RH32**	10
	Partially Threaded	**36RH30**	5
2¼"	Partially Threaded	**36RH34**	5
2½"	Partially Threaded	**36RH38**	10
3"	Fully Threaded	**36RH42**	10
⅝"-11 Coarse			
2"	Fully Threaded	**36RH54**	5
2½"	Fully Threaded	**36RH57**	5
2¾"	Partially Threaded	**36RH59**	5
3"	Partially Threaded	**36RH61**	5
3½"	Partially Threaded	**36RH63**	5
¾"-10 Coarse			
5"	Partially Threaded	**36RH82**	5
⅞"-9 Coarse			
2"	Fully Threaded	**36RH84**	1
1 "-8 Coarse			
2½"	Fully Threaded	**36RH90**	1
Plain			
¼"-20 Coarse			
½"	Fully Threaded	**3AUY9**	100
¾"	Fully Threaded	**3AUV3**	100
1"	Fully Threaded	**3AUV5**	100
1⅛"	Fully Threaded	**24K832**	25
1¼"	Partially Threaded	**3AUW2**	100
1⅜"	Partially Threaded	**3AVC8**	100
1½"	Partially Threaded	**3AVE4**	100
1⅝"	Fully Threaded	**25CP12**	100
1¾"	Partially Threaded	**3AUZ5**	100
2"	Partially Threaded	**40TW46**	50
	Fully Threaded	**167L67**	750
2¼"	Fully Threaded	**41UG64**	50
2½"	Partially Threaded	**3AUW9**	50
2¾"	Partially Threaded	**42JY66**	500
3"	Partially Threaded	**3AVP1**	25
3½"	Partially Threaded	**42JY69**	425
3¾"	Partially Threaded	**3AVC3**	25
7"	Partially Threaded	**29DN34**	5
8"	Partially Threaded	**29DN35**	5
¼"-28 Fine			
½"	Fully Threaded	**3AVC9**	100
⅝"	Fully Threaded	**1XE81**	100
¾"	Fully Threaded	**3AUW5**	100
⅞"	Fully Threaded	**1XE83**	100
1"	Fully Threaded	**3AVE3**	100
1¼"	Partially Threaded	**29DP09**	100
	Fully Threaded	**41UH34**	100
1½"	Partially Threaded	**29DP11**	100
	Fully Threaded	**41UH35**	100
1¾"	Partially Threaded	**29DP12**	100
2½"	Fully Threaded	**41UH39**	50
	Partially Threaded	**29DP15**	50
3"	Partially Threaded	**25CV12**	50
	Fully Threaded	**41UH41**	25
5⁄16"-18 Coarse			
½"	Fully Threaded	**3AUT8**	100
¾"	Fully Threaded	**3AUT6**	100
1"	Fully Threaded	**23LA83**	50
	Fully Threaded	**42JY82**	750
1¼"	Fully Threaded	**3AUV1**	50
	Fully Threaded	**42JY83**	650
1⅜"	Partially Threaded	**3AVE1**	50
1½"	Partially Threaded	**3AUV8**	50
1¾"	Partially Threaded	**22TK68**	50
2"	Partially Threaded	**23LA84**	50
2½"	Partially Threaded	**3AVA6**	25
2¾"	Fully Threaded	**41UG75**	25
3"	Partially Threaded	**3AUY8**	25
	Partially Threaded	**42JY91**	300
4"	Partially Threaded	**24K867**	10
	Fully Threaded	**41UG78**	10
4½"	Partially Threaded	**42JY96**	210
5"	Fully Threaded	**167L83**	200
5⁄16"-24 Fine			
¾"	Fully Threaded	**24L174**	50
⅞"	Fully Threaded	**1XU10**	50
1¼"	Fully Threaded	**29DP19**	50
1½"	Fully Threaded	**41UH43**	50
	Partially Threaded	**29DP20**	50
2¼"	Partially Threaded	**29DP23**	25
2½"	Fully Threaded	**41UH46**	25
	Partially Threaded	**29DP24**	25
3½"	Partially Threaded	**25CV13**	25
4"	Partially Threaded	**1XY44**	10
⅜"-16 Coarse			
¾"	Fully Threaded	**3AUU1**	50
1"	Fully Threaded	**3AUW4**	50
1¼"	Fully Threaded	**3AUT9**	50
1½"	Partially Threaded	**3AUY5**	25
1¾"	Partially Threaded	**3AUZ1**	25
	Partially Threaded	**42JZ08**	325
2"	Partially Threaded	**3AVD1**	25
	Fully Threaded	**41UG83**	25
	Partially Threaded	**42JZ09**	300
2½"	Partially Threaded	**3AUU6**	25
	Partially Threaded	**42JZ11**	250
	Fully Threaded	**167L89**	275
2¾"	Partially Threaded	**42JZ12**	225
3"	Partially Threaded	**3AVG6**	10
3½"	Partially Threaded	**40TW52**	10
4"	Partially Threaded	**3AVA2**	10
	Partially Threaded	**42JZ17**	160
4½"	Fully Threaded	**167L94**	150
5"	Fully Threaded	**167L95**	140
6"	Partially Threaded	**42JZ24**	110
7½"	Partially Threaded	**29DN42**	5
9"	Partially Threaded	**3AVP3**	1
⅜"-24 Fine			
¾"	Fully Threaded	**25CV15**	50
1"	Fully Threaded	**25CV16**	50
1¼"	Fully Threaded	**25CV17**	50
1½"	Partially Threaded	**29DP28**	25
1¾"	Partially Threaded	**29DP29**	25
2"	Fully Threaded	**41UH51**	25
2½"	Partially Threaded	**29DP31**	25
2¾"	Partially Threaded	**25CV35**	25
3"	Partially Threaded	**29DP32**	10
	Fully Threaded	**41UH54**	10
3½"	Partially Threaded	**25CV36**	10
	Partially Threaded	**42KC06**	180
7⁄16"-14 Coarse			
1"	Fully Threaded	**30P093**	25
	Fully Threaded	**42JZ28**	350
1¼"	Fully Threaded	**30P094**	25
1½"	Fully Threaded	**3AVF5**	25
	Fully Threaded	**42JZ30**	275
1¾"	Partially Threaded	**3AVJ3**	10
2"	Partially Threaded	**3AVF1**	10
2½"	Partially Threaded	**3AVF3**	10
	Partially Threaded	**42JZ34**	180
3"	Partially Threaded	**3AVE9**	10
4"	Partially Threaded	**3AVJ4**	5
7⁄16"-20 Fine			
1"	Fully Threaded	**3AVJ5**	25
1¼"	Fully Threaded	**25CV38**	25
1½"	Fully Threaded	**25CV40**	25
1¾"	Partially Threaded	**29DP35**	10
2"	Partially Threaded	**3AVN6**	10
½"-13 Coarse			
1"	Fully Threaded	**24K911**	10
1¼"	Fully Threaded	**24K912**	10
1½"	Fully Threaded	**24K913**	10
1¾"	Fully Threaded	**3AUV7**	10
	Fully Threaded	**42JZ47**	170
2"	Partially Threaded	**3AUV4**	10
2¼"	Partially Threaded	**3AVC1**	10
	Fully Threaded	**41UH01**	10
2½"	Partially Threaded	**3AVA7**	10
3"	Partially Threaded	**24K919**	5
3½"	Partially Threaded	**3AVY9**	5
4"	Partially Threaded	**3AVU7**	5
4¾"	Partially Threaded	**42JZ59**	70
5"	Fully Threaded	**167M12**	75
5½"	Fully Threaded	**167M13**	70
6½"	Partially Threaded	**3AVT7**	5
8"	Partially Threaded	**156H67**	50
	Fully Threaded	**41UH11**	5
8½"	Partially Threaded	**24K931**	1
9"	Partially Threaded	**24K932**	1
½"-20 Fine			
1"	Fully Threaded	**24L202**	10
1¼"	Fully Threaded	**29DP42**	10
1½"	Fully Threaded	**24L204**	10
3"	Fully Threaded	**41UH61**	5
4"	Partially Threaded	**29DP50**	5
4½"	Partially Threaded	**25CV41**	5
5½"	Partially Threaded	**25CV43**	5
9⁄16"-12 Coarse			
1½"	Fully Threaded	**25CV04**	10
2"	Fully Threaded	**24K937**	5
2¼"	Partially Threaded	**29DN56**	5
2½"	Partially Threaded	**24K938**	5
	Partially Threaded	**42JZ68**	100
3"	Partially Threaded	**24K939**	5
	Partially Threaded	**42JZ70**	85
3½"	Partially Threaded	**24K940**	5
4½"	Partially Threaded	**29DN60**	5
5"	Partially Threaded	**29DN61**	5
9⁄16"-18 Fine			
1½"	Fully Threaded	**29DP53**	10
2"	Fully Threaded	**29DP55**	5
2½"	Partially Threaded	**29DP56**	5
3½"	Partially Threaded	**29DP58**	5
6"	Partially Threaded	**29DP63**	5
⅝"-11 Coarse			
1¼"	Fully Threaded	**42JZ80**	120
1½"	Fully Threaded	**3AUU9**	10
1¾"	Fully Threaded	**3AUT3**	10
2"	Fully Threaded	**24K946**	5
	Fully Threaded	**42JZ83**	95
2¼"	Partially Threaded	**3AVY4**	5
	Fully Threaded	**41UH13**	5
2½"	Partially Threaded	**3AVT8**	5
2¾"	Partially Threaded	**3AVZ5**	5
	Fully Threaded	**41UH15**	5
3"	Partially Threaded	**3AVX3**	5
3½"	Partially Threaded	**3AVX9**	5
3¾"	Partially Threaded	**3AVX6**	5
4"	Partially Threaded	**3AVX8**	5
6½"	Partially Threaded	**42JZ98**	35
8"	Partially Threaded	**156N62**	30
⅝"-18 Fine			
1"	Fully Threaded	**22TG70**	10
1½"	Fully Threaded	**23LA85**	10
2"	Fully Threaded	**24L216**	5
3"	Partially Threaded	**23LA88**	5
7"	Partially Threaded	**29DP70**	5
¾"-10 Coarse			
2"	Fully Threaded	**3AUU5**	5
2½"	Fully Threaded	**24K970**	5
3"	Partially Threaded	**3AVR5**	5
3¼"	Fully Threaded	**41UH27**	5
3½"	Partially Threaded	**3AVT3**	5
3¾"	Partially Threaded	**42KA11**	35
4"	Partially Threaded	**3AVT2**	5
4½"	Fully Threaded	**41UH30**	5
5"	Fully Threaded	**41UH31**	5
	Partially Threaded	**42KA16**	30
5½"	Partially Threaded	**42KA17**	25
7"	Partially Threaded	**156H70**	25
¾"-16 Fine			
1¼"	Fully Threaded	**42KC67**	75
	Fully Threaded	**29DP74**	5
1½"	Fully Threaded	**24C659**	5
2"	Fully Threaded	**24C661**	5
2½"	Fully Threaded	**24C663**	5
3"	Partially Threaded	**23LA91**	5
3½"	Partially Threaded	**23LC01**	5
⅞"-9 Coarse			
2"	Fully Threaded	**25CV18**	5
2½"	Fully Threaded	**25CV19**	5
2¾"	Fully Threaded	**25CV09**	5
	Fully Threaded	**42KA25**	30
3"	Partially Threaded	**23LC05**	5
3¼"	Partially Threaded	**29DN76**	5
3½"	Partially Threaded	**22TK75**	5
	Partially Threaded	**42KA28**	25
3¾"	Partially Threaded	**29DN77**	5
5"	Partially Threaded	**25CV10**	5
	Partially Threaded	**42KA33**	20
5½"	Partially Threaded	**29DN79**	5
6"	Partially Threaded	**25CV21**	5
	Partially Threaded	**42KA35**	15
10"	Partially Threaded	**29DN84**	1
1 "-8 Coarse			
2"	Fully Threaded	**25CV22**	5
3"	Fully Threaded	**25CV24**	5
3½"	Partially Threaded	**22TK76**	5
4"	Partially Threaded	**22TK77**	5
4¾"	Partially Threaded	**24C576**	1
5½"	Partially Threaded	**22TK80**	5
6"	Partially Threaded	**22TK81**	5
7"	Partially Threaded	**24L016**	1
8"	Partially Threaded	**24L018**	1
10"	Partially Threaded	**1YA99**	1
1 ¼"-7 Coarse			
3"	Partially Threaded	**29DP02**	1
5"	Partially Threaded	**42KA60**	9
8"	Partially Threaded	**29DP07**	1
9"	Partially Threaded	**29DP08**	1

316 Stainless Steel Hex Head Cap Screws

- Meet ASME B18.2.1 standards

Length	Thread Style	Item No.	Pkg. Qty.
NL-19			
1/4"-20 Coarse			
½"	Fully Threaded	36RG08	100
¾"	Fully Threaded	36RG13	100
1"	Fully Threaded	36RG17	100
1½"	Partially Threaded	36RG25	25
5/16"-18 Coarse			
¾"	Fully Threaded	36RG37	25
	Fully Threaded	36RG36	10
1"	Fully Threaded	36RG42	25
1¼"	Fully Threaded	36RG46	25
2½"	Partially Threaded	36RG61	10
	Partially Threaded	36RG60	5
3/8"-16 Coarse			
¾"	Fully Threaded	36RG69	25
1"	Fully Threaded	36RG74	25
1¼"	Fully Threaded	36RG78	25
1½"	Partially Threaded	36RG82	25
3"	Partially Threaded	36RH02	5
7/16"-14 Coarse			
1"	Fully Threaded	36RH10	5
	Fully Threaded	36RH11	10
1/2"-13 Coarse			
1¼"	Fully Threaded	36RH22	10
	Fully Threaded	36RH21	5
1½"	Fully Threaded	36RH26	10
2"	Partially Threaded	36RH33	5
5/8"-11 Coarse			
2"	Fully Threaded	36RH55	5
2½"	Partially Threaded	36RH58	5
3"	Partially Threaded	36RH62	5
6"	Partially Threaded	36RH66	1
3/4"-10 Coarse			
2"	Fully Threaded	36RH69	5
2½"	Fully Threaded	36RH72	5
3"	Partially Threaded	36RH74	1
3¼"	Partially Threaded	36RH75	1
Plain			
1/4"-20 Coarse			
½"	Fully Threaded	1XB17	100
¾"	Fully Threaded	3AUH7	100
1"	Fully Threaded	3AUD2	100
1¼"	Partially Threaded	23LC08	100
1⅜"	Partially Threaded	29DR87	100
1½"	Partially Threaded	23LC09	100
	Fully Threaded	41UH63	100
	Fully Threaded	167M67	1000
2"	Partially Threaded	23LC11	50
2¼"	Fully Threaded	41UH66	50
2½"	Partially Threaded	23LC13	50
	Fully Threaded	41UH67	50
2¾"	Fully Threaded	41UH68	50
3"	Partially Threaded	42KP82	475
3½"	Fully Threaded	41UH70	25
4"	Fully Threaded	41UH71	25
	Partially Threaded	42KP86	350
5½"	Partially Threaded	29DR92	10
1/4"-28 Fine			
½"	Fully Threaded	16W843	100
5/16"-18 Coarse			
¾"	Fully Threaded	23LC15	100
1"	Fully Threaded	23LC16	50
1¼"	Fully Threaded	23LC17	50
1½"	Partially Threaded	23LC18	50
	Fully Threaded	167M77	600
2"	Partially Threaded	23LC20	50
	Fully Threaded	167M79	450
3"	Fully Threaded	41UH77	25
4"	Fully Threaded	41UH79	10
5"	Fully Threaded	41UH80	10
3/8"-16 Coarse			
¾"	Fully Threaded	23LC22	50
⅞"	Fully Threaded	42KR13	550
1"	Fully Threaded	23LC23	50
1¼"	Fully Threaded	23LC24	50
	Fully Threaded	42KR15	450
1½"	Partially Threaded	3AUD4	25
	Fully Threaded	167M86	400
1¾"	Partially Threaded	23LC25	25
2"	Partially Threaded	23LC26	25
2½"	Partially Threaded	22TK87	25
	Partially Threaded	42KR20	250
3"	Partially Threaded	3AUH5	10
3½"	Fully Threaded	167M91	190
	Partially Threaded	42KR24	180
3¾"	Partially Threaded	42KR25	170
4"	Partially Threaded	22TK88	10
4¼"	Partially Threaded	29DT01	10
4½"	Fully Threaded	41UH89	10
4¾"	Partially Threaded	29DT02	10
5½"	Partially Threaded	42KR31	120
	Fully Threaded	41UH91	10
5¾"	Partially Threaded	29DT04	10
6½"	Partially Threaded	42KR34	95
7/16"-14 Coarse			
1"	Fully Threaded	25CV31	25
1¼"	Fully Threaded	29DT09	25
1½"	Fully Threaded	25CV32	25
2"	Partially Threaded	25CV33	10
2½"	Fully Threaded	41UH93	10
3"	Partially Threaded	29DT11	10
1/2"-13 Coarse			
⅞"	Fully Threaded	29DT12	10
1"	Fully Threaded	3AUH4	10
	Fully Threaded	42KR45	200
1¼"	Fully Threaded	3AUF3	10
1½"	Fully Threaded	3AUE6	10
1¾"	Fully Threaded	23LC32	10
	Fully Threaded	42KR48	170
2"	Partially Threaded	23LC33	10
2¼"	Partially Threaded	42KR50	140
2½"	Partially Threaded	23LC35	10
2¾"	Partially Threaded	42KR52	110
3"	Partially Threaded	3AUE2	5
3½"	Partially Threaded	3AUH1	5
4"	Partially Threaded	3AUE7	5
4½"	Fully Threaded	41UJ01	5
4¾"	Partially Threaded	29DT15	5
5"	Partially Threaded	42KR61	70
5½"	Partially Threaded	42KR62	65
6½"	Partially Threaded	42KR64	55
8"	Partially Threaded	156N88	50
8½"	Partially Threaded	29DT19	1
9"	Partially Threaded	29DT20	1
5/8"-11 Coarse			
1"	Fully Threaded	42KR65	140
1½"	Fully Threaded	23LC39	10
1¾"	Fully Threaded	23LC40	10
	Fully Threaded	42KR68	100
2"	Fully Threaded	3AUE3	5
2¼"	Partially Threaded	3AUC9	5
	Partially Threaded	42KR70	85
2½"	Partially Threaded	3AUA5	5
2¾"	Partially Threaded	3AUD5	5
3"	Partially Threaded	3AUD1	5
3½"	Partially Threaded	3ATZ8	5
4"	Partially Threaded	3AUC5	5
4¼"	Partially Threaded	29DT24	5
5"	Partially Threaded	24L116	5
	Fully Threaded	41UJ10	5
5¼"	Partially Threaded	24C608	5
6"	Fully Threaded	41UJ11	5
6½"	Fully Threaded	24C609	1
	Partially Threaded	29DT26	5
7"	Partially Threaded	22TK97	5
8"	Partially Threaded	156N95	30
	Partially Threaded	29DT28	5
8½"	Partially Threaded	29DT29	1
3/4"-10 Coarse			
2"	Fully Threaded	3AUC3	5
2½"	Fully Threaded	24L126	5
3"	Partially Threaded	23LC45	5
3½"	Partially Threaded	23LC46	5
	Fully Threaded	167N18	45
4"	Partially Threaded	23LC47	5
4¼"	Partially Threaded	29DT36	5
4¾"	Partially Threaded	29DT37	5
6"	Partially Threaded	42KT03	25
7/8"-9 Coarse			
1¾"	Fully Threaded	29DT41	5
2"	Fully Threaded	25CV46	5
2¼"	Fully Threaded	42KT08	35
2½"	Fully Threaded	25CV47	5
3"	Partially Threaded	25CV48	5
	Partially Threaded	42KT11	30
3½"	Partially Threaded	25CV49	5
4"	Partially Threaded	22TL03	5
4½"	Partially Threaded	25CV50	5
5"	Partially Threaded	25CV51	5
	Partially Threaded	42KT18	20
6"	Partially Threaded	42KT20	15
7"	Partially Threaded	156H73	20
7½"	Fully Threaded	24C630	1
8"	Partially Threaded	29DT50	1
1"-8 Coarse			
2"	Fully Threaded	25CV52	5
	Fully Threaded	42KT22	30
2¼"	Fully Threaded	42KT23	25
2½"	Fully Threaded	22TK94	5
4"	Partially Threaded	22TL07	5
	Partially Threaded	42KT30	15
4½"	Partially Threaded	42KT32	15
5"	Partially Threaded	25CV55	5
6½"	Partially Threaded	42KT36	12
8"	Partially Threaded	156J03	11
9"	Partially Threaded	24C644	1
10"	Partially Threaded	24L157	1
1 1/8"-7 Coarse			
2½"	Fully Threaded	42KT37	20
3"	Partially Threaded	29DT61	1
	Partially Threaded	42KT38	18
5"	Partially Threaded	42KT41	12
7"	Partially Threaded	156P10	10
1 1/4"-7 Coarse			
2½"	Fully Threaded	42KT43	15
3"	Partially Threaded	42KT44	14
	Partially Threaded	29DT69	1
4"	Partially Threaded	25CV57	1
7"	Partially Threaded	156P12	8

316 Stainless Steel Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Meet ASME B18.2.1 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
1/4"-20 Coarse			
½"	Fully Threaded	420N54	1
¾"	Fully Threaded	420N55	1
1"	Partially Threaded	420N56	1
1¼"	Partially Threaded	420N57	1
1½"	Partially Threaded	420N58	1
2"	Partially Threaded	420N59	1
5/16"-18 Coarse			
¾"	Fully Threaded	420N60	1
1"	Fully Threaded	420N61	1
1¼"	Partially Threaded	420N62	1
1½"	Partially Threaded	420N63	1
2"	Partially Threaded	420N64	1
3/8"-16 Coarse			
¾"	Fully Threaded	420N65	1
1"	Fully Threaded	420N66	1
1½"	Partially Threaded	420N67	1
1¾"	Partially Threaded	420N68	1
2"	Partially Threaded	420N69	1
2½"	Partially Threaded	420N70	1
3"	Partially Threaded	420N71	1
1/2"-13 Coarse			
1"	Fully Threaded	420N72	1
1¼"	Fully Threaded	420N73	1
1½"	Fully Threaded	420N74	1
1¾"	Partially Threaded	420N75	1
2"	Partially Threaded	420N76	1
2½"	Partially Threaded	420N77	1
3"	Partially Threaded	420N78	1
3½"	Partially Threaded	420N79	1
4"	Partially Threaded	420N80	1

Grade A2 Stainless Steel Hex Head Cap Screws

- Fully threaded screws meet DIN 933 standards
- Partially threaded screws meet DIN 931 standards

Length	Thread Style	Item No.	Pkg. Qty.
Black Oxide			
M6-1 .00 Coarse			
70-mm	Fully Threaded	54FR19	50
80-mm	Fully Threaded	54FR20	50
90-mm	Fully Threaded	54FR21	50
M8-1 .25 Coarse			
110-mm	Fully Threaded	54FR23	25
120-mm	Fully Threaded	54FR24	25
M10-1 .50 Coarse			
120-mm	Fully Threaded	54FR26	25
130-mm	Fully Threaded	54FR27	25
M14-2.00 Coarse			
60-mm	Fully Threaded	54FR32	10
80-mm	Fully Threaded	54FR33	10
NL-19			
M6-1 .00 Coarse			
12-mm	Fully Threaded	36RH92	100
16-mm	Fully Threaded	36RH93	100
20-mm	Fully Threaded	36RH94	100
25-mm	Fully Threaded	36RH96	100
40-mm	Fully Threaded	36RH97	25
50-mm	Fully Threaded	36RH98	25
60-mm	Fully Threaded	36RH99	25
M8-1 .25 Coarse			
16-mm	Fully Threaded	36RJ01	25
20-mm	Fully Threaded	36RJ02	25
25-mm	Fully Threaded	36RJ04	25
30-mm	Fully Threaded	36RJ05	25
35-mm	Fully Threaded	36RJ06	25
60-mm	Fully Threaded	36RJ10	10
M10-1 .50 Coarse			
16-mm	Fully Threaded	36RJ11	10
20-mm	Fully Threaded	36RJ12	10
25-mm	Fully Threaded	36RJ13	10
30-mm	Fully Threaded	36RJ14	10
35-mm	Fully Threaded	36RJ16	10
40-mm	Fully Threaded	36RJ17	10
50-mm	Fully Threaded	36RJ19	10
M12-1 .75 Coarse			
25-mm	Fully Threaded	36RJ20	10
30-mm	Fully Threaded	36RJ21	10
35-mm	Fully Threaded	36RJ22	10
40-mm	Fully Threaded	36RJ23	10
50-mm	Fully Threaded	36RJ24	10
60-mm	Fully Threaded	36RJ25	10
Plain			
M3-0.50 Coarse			
6-mm	Fully Threaded	22TA59	50
8-mm	Fully Threaded	22TA64	50
10-mm	Fully Threaded	22TA65	50
12-mm	Fully Threaded	22TA66	50
16-mm	Fully Threaded	22TA67	50
20-mm	Fully Threaded	22TD72	50
25-mm	Fully Threaded	22TD77	50
30-mm	Fully Threaded	6BB84	50
40-mm	Fully Threaded	6BB86	50
M4-0.70 Coarse			
6-mm	Fully Threaded	22TD78	50
10-mm	Fully Threaded	22TD80	50
12-mm	Fully Threaded	22TE05	50
16-mm	Fully Threaded	22TE18	50
20-mm	Fully Threaded	22TE19	50
25-mm	Fully Threaded	22TE20	50
30-mm	Partially Threaded	29DJ25	50
35-mm	Fully Threaded	22TE22	50
40-mm	Fully Threaded	22TE28	50
45-mm	Fully Threaded	6BB97	50
60-mm	Fully Threaded	38DZ35	50
M5-0.80 Coarse			
6-mm	Fully Threaded	22TE29	50
10-mm	Fully Threaded	22TE35	50
12-mm	Fully Threaded	22TE36	50
16-mm	Fully Threaded	22TE37	50
20-mm	Fully Threaded	22TE38	50
25-mm	Fully Threaded	22TE39	50
30-mm	Fully Threaded	22TE40	50
	Partially Threaded	29DJ29	50
45-mm	Fully Threaded	6BE19	50
50-mm	Partially Threaded	25DA53	50
60-mm	Fully Threaded	6BE21	50
	Partially Threaded	25DA54	50
70-mm	Fully Threaded	6BE22	10
M6-1 .00 Coarse			
8-mm	Fully Threaded	22TE45	50
10-mm	Fully Threaded	22TE46	50
12-mm	Fully Threaded	22TF76	50
16-mm	Fully Threaded	22TF95	50
20-mm	Fully Threaded	22TG06	50
25-mm	Fully Threaded	22TG07	50
30-mm	Fully Threaded	22TG14	50
	Partially Threaded	38DZ06	50
35-mm	Fully Threaded	22TG15	50
	Partially Threaded	38DZ07	50
40-mm	Fully Threaded	22TN62	50
45-mm	Partially Threaded	25DA55	50
50-mm	Fully Threaded	22TN64	50
	Partially Threaded	25DA56	50
60-mm	Fully Threaded	22TN66	50
	Partially Threaded	25DA58	50
65-mm	Partially Threaded	25DA59	50
80-mm	Partially Threaded	22TM55	50
90-mm	Partially Threaded	6BE91	25
100-mm	Partially Threaded	22TM57	25
110-mm	Partially Threaded	25DA60	25
120-mm	Partially Threaded	25DA61	25
140-mm	Partially Threaded	25DA62	10
M8-1 .25 Coarse			
12-mm	Fully Threaded	22TN68	50
14-mm	Fully Threaded	25DG81	50
16-mm	Fully Threaded	22TN69	50
20-mm	Fully Threaded	22TN71	50
25-mm	Fully Threaded	22TN73	50
30-mm	Fully Threaded	22TN74	50
	Partially Threaded	38DZ10	50
35-mm	Fully Threaded	22TN75	50
	Partially Threaded	38DZ11	50
40-mm	Fully Threaded	22TN76	50
	Partially Threaded	38DZ12	50
45-mm	Fully Threaded	22TN77	50
	Partially Threaded	25DA63	50
50-mm	Fully Threaded	22TN78	50
55-mm	Partially Threaded	25DA65	50
60-mm	Fully Threaded	22TN80	50
	Partially Threaded	25DA66	50
	Fully Threaded	42GN08	400
65-mm	Partially Threaded	38DZ13	50
75-mm	Partially Threaded	25DA67	50
80-mm	Fully Threaded	25DG83	50
90-mm	Partially Threaded	22TM60	25
	Fully Threaded	29DJ41	25
110-mm	Partially Threaded	22TM62	25
120-mm	Partially Threaded	22TM63	25
130-mm	Partially Threaded	22TM64	25
140-mm	Partially Threaded	29DJ30	10
150-mm	Partially Threaded	25DA68	10
160-mm	Partially Threaded	38DZ14	10
M10-1 .50 Coarse			
16-mm	Fully Threaded	22TN83	50
20-mm	Fully Threaded	22TN84	50
25-mm	Fully Threaded	22TN85	50
30-mm	Fully Threaded	22TN86	50
35-mm	Fully Threaded	22TN87	50
40-mm	Fully Threaded	22TN88	25
	Partially Threaded	38DZ16	50
45-mm	Fully Threaded	22TN89	25
	Partially Threaded	38DZ17	50
50-mm	Fully Threaded	22TN90	25
	Partially Threaded	25DA69	25
55-mm	Partially Threaded	25DA70	25
60-mm	Fully Threaded	22TN92	25
	Partially Threaded	25DA71	25
65-mm	Partially Threaded	25DA72	25
70-mm	Partially Threaded	22TM65	25
	Fully Threaded	29DJ42	25
75-mm	Partially Threaded	25DA73	25
110-mm	Partially Threaded	25DA74	10
	Fully Threaded	38DZ37	25
130-mm	Partially Threaded	22TM70	10
140-mm	Fully Threaded	38DZ38	25
150-mm	Fully Threaded	38DZ39	25
160-mm	Partially Threaded	38DZ18	10
	Fully Threaded	38DZ40	10
M12-1 .75 Coarse			
20-mm	Fully Threaded	22TN95	25
25-mm	Fully Threaded	22TN96	25
30-mm	Fully Threaded	22TN97	25
35-mm	Fully Threaded	22TN98	25
40-mm	Fully Threaded	22TN99	25
45-mm	Fully Threaded	22TP01	25
	Partially Threaded	38DZ21	25
50-mm	Fully Threaded	22TP02	25
	Partially Threaded	25DA77	25
55-mm	Fully Threaded	22TP03	25
60-mm	Fully Threaded	22TP04	25
	Partially Threaded	25DA79	25
65-mm	Fully Threaded	38DZ41	25
	Partially Threaded	25DA80	10
70-mm	Partially Threaded	22TM71	10
75-mm	Partially Threaded	25DA81	10
80-mm	Fully Threaded	25DG87	10
90-mm	Partially Threaded	22TM73	10
100-mm	Fully Threaded	25DG88	10
110-mm	Partially Threaded	22TM75	10
120-mm	Partially Threaded	22TM76	10
130-mm	Partially Threaded	22TM77	10
140-mm	Partially Threaded	25DA82	10
	Fully Threaded	38DZ42	10
150-mm	Partially Threaded	25DA83	10
	Fully Threaded	38DZ43	10
160-mm	Fully Threaded	38DZ44	5
180-mm	Partially Threaded	38DZ22	5
M14-2.00 Coarse			
25-mm	Fully Threaded	25DG89	25
30-mm	Fully Threaded	22TP05	25
40-mm	Fully Threaded	22TP07	25
45-mm	Fully Threaded	25DG90	10
50-mm	Fully Threaded	22TP08	10
	Partially Threaded	25DA85	10
55-mm	Partially Threaded	38DZ23	10
70-mm	Partially Threaded	22TM79	10
	Fully Threaded	25DG91	10
80-mm	Partially Threaded	22TM80	10
90-mm	Partially Threaded	25DA86	10
100-mm	Partially Threaded	25DA87	10
120-mm	Partially Threaded	38DZ24	10
M16-2.00 Coarse			
25-mm	Fully Threaded	22TP09	10
40-mm	Fully Threaded	22TP12	10
50-mm	Fully Threaded	22TP14	10
55-mm	Partially Threaded	22TM81	10
	Fully Threaded	25DG92	10
60-mm	Partially Threaded	22TM82	10
65-mm	Partially Threaded	25DA88	5
70-mm	Fully Threaded	25DG94	5
75-mm	Partially Threaded	25DA89	5
	Fully Threaded	38DZ47	10
80-mm	Fully Threaded	25DG95	5
	Partially Threaded	6BU29	5
90-mm	Partially Threaded	6BU30	5
	Fully Threaded	25DG96	5
100-mm	Partially Threaded	22TM86	5
	Fully Threaded	25DG97	5
110-mm	Partially Threaded	25DA90	5
120-mm	Partially Threaded	22TM87	5
130-mm	Partially Threaded	22TM88	5
150-mm	Partially Threaded	25DA92	5
M18-2.50 Coarse			
50-mm	Fully Threaded	29DJ45	10
M20-2.50 Coarse			
30-mm	Fully Threaded	22TP15	5
35-mm	Fully Threaded	22TP16	5
40-mm	Fully Threaded	22TP17	5
45-mm	Fully Threaded	22TP18	5
50-mm	Fully Threaded	22TP19	5
55-mm	Fully Threaded	25DG98	5
60-mm	Fully Threaded	25DG99	5
70-mm	Partially Threaded	22TM89	5
	Fully Threaded	25DH01	5
75-mm	Partially Threaded	25DA97	5
80-mm	Partially Threaded	22TM90	5
	Fully Threaded	25DH02	5
90-mm	Partially Threaded	22TM91	5
	Fully Threaded	29DJ51	5
	Partially Threaded	42GM27	35
100-mm	Partially Threaded	22TM92	5
	Fully Threaded	25DH03	5
110-mm	Fully Threaded	38DZ51	5
120-mm	Partially Threaded	22TM93	5
130-mm	Fully Threaded	38DZ52	5
	Partially Threaded	38DZ28	5
150-mm	Fully Threaded	38DZ53	5
M22-2.50 Coarse			
80-mm	Partially Threaded	38DZ30	5
M24-3.00 Coarse			
50-mm	Fully Threaded	25DH04	5
70-mm	Fully Threaded	25DH06	5
80-mm	Partially Threaded	25DC04	5
	Fully Threaded	25DH07	5
100-mm	Partially Threaded	25DC06	1
	Fully Threaded	29DJ54	1
200-mm	Partially Threaded	25DC12	1
M30-3.50 Coarse			
60-mm	Fully Threaded	29DJ56	1
70-mm	Fully Threaded	29DJ57	1
M36-4.00 Coarse			
100-mm	Partially Threaded	29DJ39	1

Grade A4 Stainless Steel Hex Head Cap Screws

- Fully threaded screws meet DIN 933 standards
- Partially threaded screws meet DIN 931 standards

Length	Thread Style	Item No.	Pkg. Qty.
NL-19			
M6-1 .00 Coarse			
20-mm	Fully Threaded	**36RH95**	50
M8-1 .25 Coarse			
20-mm	Fully Threaded	**36RJ03**	25
40-mm	Fully Threaded	**36RJ08**	10
M10-1 .50 Coarse			
30-mm	Fully Threaded	**36RJ15**	10
40-mm	Fully Threaded	**36RJ18**	10
M16-2.00 Coarse			
50-mm	Fully Threaded	**36RJ26**	1
60-mm	Fully Threaded	**36RJ27**	1
80-mm	Fully Threaded	**36RJ28**	1
Plain			
M3-0.50 Coarse			
6-mm	Fully Threaded	**6BA93**	50
10-mm	Fully Threaded	**6BA95**	50
16-mm	Fully Threaded	**6BA96**	50
20-mm	Fully Threaded	**6BA97**	50
25-mm	Fully Threaded	**29DK03**	50
30-mm	Fully Threaded	**29DK04**	50
35-mm	Fully Threaded	**6BB85**	50
M4-0.70 Coarse			
8-mm	Fully Threaded	**6BA98**	50
10-mm	Fully Threaded	**6BA99**	50
12-mm	Fully Threaded	**6BB10**	50
14-mm	Fully Threaded	**25DH08**	50
16-mm	Fully Threaded	**6BB11**	50
20-mm	Fully Threaded	**6BB12**	50
25-mm	Fully Threaded	**6BB13**	50
30-mm	Fully Threaded	**22TP20**	50
35-mm	Fully Threaded	**25DH09**	50
40-mm	Fully Threaded	**25DH10**	50
M5-0.80 Coarse			
8-mm	Fully Threaded	**25DH11**	50
10-mm	Fully Threaded	**6BB15**	50
12-mm	Fully Threaded	**6BB16**	50
16-mm	Fully Threaded	**6BB17**	50
20-mm	Fully Threaded	**6BB18**	50
25-mm	Fully Threaded	**6BB19**	50
30-mm	Fully Threaded	**22TP21**	50
35-mm	Fully Threaded	**22TP22**	50
40-mm	Fully Threaded	**22TP23**	50
45-mm	Partially Threaded	**25DC17**	50
50-mm	Fully Threaded	**29DK06**	50
	Partially Threaded	**25DC18**	50
60-mm	Partially Threaded	**25DC19**	50
M6-1 .00 Coarse			
8-mm	Fully Threaded	**25DH12**	50
10-mm	Fully Threaded	**6BB23**	50
12-mm	Fully Threaded	**6BB24**	50
14-mm	Fully Threaded	**25DH13**	50
16-mm	Fully Threaded	**6BB25**	50
18-mm	Fully Threaded	**38EA55**	50
20-mm	Fully Threaded	**6BB26**	50
25-mm	Fully Threaded	**6BB27**	50
30-mm	Fully Threaded	**23LC75**	50
35-mm	Fully Threaded	**22TP24**	50
40-mm	Fully Threaded	**22TP25**	50
	Partially Threaded	**38EA38**	50
45-mm	Fully Threaded	**22TP26**	50
	Partially Threaded	**25DC20**	50
50-mm	Fully Threaded	**22TP27**	50
	Partially Threaded	**25DC21**	50
55-mm	Partially Threaded	**25DC22**	50
	Fully Threaded	**38EA56**	50
60-mm	Fully Threaded	**22TP28**	50
	Partially Threaded	**25DC23**	50
65-mm	Partially Threaded	**25DC24**	50
70-mm	Fully Threaded	**22TP29**	50
	Partially Threaded	**25DC25**	50
80-mm	Fully Threaded	**38EA57**	50
	Partially Threaded	**25DC26**	50
90-mm	Partially Threaded	**25DC27**	25
100-mm	Fully Threaded	**38EA58**	50
	Partially Threaded	**25DC28**	25

Length	Thread Style	Item No.	Pkg. Qty.
M8-1 .25 Coarse			
10-mm	Fully Threaded	**25DH14**	50
16-mm	Fully Threaded	**22TP31**	50
20-mm	Fully Threaded	**22TP32**	50
25-mm	Fully Threaded	**23LC76**	50
30-mm	Fully Threaded	**22TP33**	50
35-mm	Fully Threaded	**22TP34**	50
	Partially Threaded	**38EA40**	50
40-mm	Fully Threaded	**22TP35**	50
	Partially Threaded	**38EA41**	50
45-mm	Partially Threaded	**38EA42**	50
50-mm	Fully Threaded	**22TP37**	50
	Partially Threaded	**25DC29**	50
55-mm	Partially Threaded	**25DC30**	50
	Fully Threaded	**38EA59**	50
60-mm	Fully Threaded	**23LC77**	50
	Partially Threaded	**25DC31**	50
65-mm	Partially Threaded	**25DC32**	50
	Fully Threaded	**25DH15**	50
70-mm	Fully Threaded	**22TP38**	50
	Partially Threaded	**25DC33**	50
80-mm	Fully Threaded	**22TP39**	50
	Partially Threaded	**25DC34**	50
90-mm	Partially Threaded	**25DC35**	25
100-mm	Fully Threaded	**22TP41**	25
	Partially Threaded	**25DC36**	25
110-mm	Partially Threaded	**29DJ82**	25
120-mm	Partially Threaded	**25DC37**	25
M10-1 .50 Coarse			
12-mm	Fully Threaded	**38EA60**	50
16-mm	Fully Threaded	**25DH16**	50
20-mm	Fully Threaded	**22TP42**	50
25-mm	Fully Threaded	**23LC78**	50
30-mm	Fully Threaded	**22TP43**	50
35-mm	Fully Threaded	**22TP44**	50
40-mm	Fully Threaded	**22TP45**	25
	Partially Threaded	**38EA44**	25
45-mm	Fully Threaded	**22TP46**	25
	Partially Threaded	**25DC38**	25
50-mm	Fully Threaded	**22TP47**	25
	Partially Threaded	**25DC39**	25
55-mm	Partially Threaded	**25DC40**	25
	Fully Threaded	**38EA61**	25
60-mm	Fully Threaded	**22TP48**	25
	Partially Threaded	**25DC41**	25
65-mm	Fully Threaded	**25DH17**	25
70-mm	Partially Threaded	**25DC43**	25
	Fully Threaded	**38EA62**	25
80-mm	Fully Threaded	**22TP49**	25
	Partially Threaded	**25DC45**	25
90-mm	Fully Threaded	**22TP50**	25
	Partially Threaded	**25DC46**	25
100-mm	Fully Threaded	**22TP51**	25
	Partially Threaded	**25DC47**	25
110-mm	Partially Threaded	**25DC48**	10
120-mm	Fully Threaded	**38EA63**	25
130-mm	Partially Threaded	**29DJ83**	10
M12-1 .75 Coarse			
16-mm	Fully Threaded	**38EA64**	25
20-mm	Fully Threaded	**25DH18**	25
25-mm	Fully Threaded	**25DH19**	25
30-mm	Fully Threaded	**22TP52**	25
35-mm	Fully Threaded	**22TP53**	25
40-mm	Fully Threaded	**22TP54**	25
45-mm	Fully Threaded	**25DH20**	25
	Partially Threaded	**38EA45**	25
50-mm	Fully Threaded	**22TP55**	25
	Partially Threaded	**25DC51**	25
55-mm	Partially Threaded	**25DC52**	25
	Fully Threaded	**38EA65**	25
60-mm	Fully Threaded	**22TP56**	25
	Partially Threaded	**25DC53**	25
65-mm	Fully Threaded	**25DH21**	10
	Partially Threaded	**25DC54**	10
70-mm	Partially Threaded	**25DC55**	10
	Fully Threaded	**29DK08**	10
75-mm	Partially Threaded	**25DC56**	10
80-mm	Fully Threaded	**22TP57**	10
	Partially Threaded	**25DC57**	10
90-mm	Fully Threaded	**22TP58**	10
	Partially Threaded	**42GU90**	100
	Partially Threaded	**25DC58**	10

Length	Thread Style	Item No.	Pkg. Qty.
100-mm	Fully Threaded	**22TP59**	10
	Partially Threaded	**25DC59**	10
110-mm	Fully Threaded	**38EA66**	10
	Partially Threaded	**25DC60**	10
120-mm	Fully Threaded	**38EA67**	10
	Partially Threaded	**25DC61**	10
130-mm	Partially Threaded	**29DJ84**	10
140-mm	Partially Threaded	**25DC62**	10
220-mm	Partially Threaded	**38EA46**	5
M14-2.00 Coarse			
20-mm	Fully Threaded	**22TP60**	25
25-mm	Fully Threaded	**25DH22**	25
30-mm	Fully Threaded	**25DH23**	25
35-mm	Fully Threaded	**25DH24**	25
40-mm	Fully Threaded	**25DH25**	25
50-mm	Fully Threaded	**25DH26**	10
60-mm	Fully Threaded	**25DH27**	10
65-mm	Fully Threaded	**25DH28**	10
70-mm	Fully Threaded	**25DH29**	10
80-mm	Fully Threaded	**25DH30**	10
	Partially Threaded	**25DC64**	10
100-mm	Partially Threaded	**25DC66**	10
120-mm	Partially Threaded	**25DC67**	10
M16-2.00 Coarse			
25-mm	Fully Threaded	**22TP61**	10
30-mm	Fully Threaded	**22TP62**	10
35-mm	Fully Threaded	**22TP63**	10
40-mm	Fully Threaded	**22TP64**	10
45-mm	Fully Threaded	**25DH31**	10
	Fully Threaded	**42GW41**	100
50-mm	Fully Threaded	**22TP65**	10
55-mm	Fully Threaded	**25DH32**	10
	Partially Threaded	**25DC69**	10
60-mm	Fully Threaded	**22TP66**	10
	Partially Threaded	**25DC70**	10
65-mm	Partially Threaded	**25DC71**	5
70-mm	Fully Threaded	**25DH34**	5
	Partially Threaded	**25DC72**	5
75-mm	Partially Threaded	**25DC73**	5
80-mm	Fully Threaded	**22TP67**	5
	Partially Threaded	**25DC74**	5
90-mm	Fully Threaded	**22TP68**	5
100-mm	Fully Threaded	**22TP69**	5
120-mm	Partially Threaded	**25DC77**	5
	Fully Threaded	**38EA69**	5
130-mm	Fully Threaded	**38EA70**	5
140-mm	Partially Threaded	**25DC78**	5
	Fully Threaded	**38EA71**	5
150-mm	Partially Threaded	**38EA49**	5
160-mm	Fully Threaded	**38EA72**	5
170-mm	Partially Threaded	**25DC80**	5
M18-2.50 Coarse			
40-mm	Fully Threaded	**25DH35**	10
50-mm	Fully Threaded	**25DH36**	10
60-mm	Fully Threaded	**25DH37**	5
70-mm	Fully Threaded	**25DH38**	5
80-mm	Fully Threaded	**25DH39**	5
90-mm	Fully Threaded	**25DH40**	5
100-mm	Fully Threaded	**25DH41**	5
M20-2.50 Coarse			
40-mm	Fully Threaded	**25DH43**	5
50-mm	Fully Threaded	**25DH45**	5
55-mm	Fully Threaded	**25DH46**	5
60-mm	Fully Threaded	**25DH47**	5
70-mm	Partially Threaded	**25DC83**	5
	Fully Threaded	**25DH48**	5
75-mm	Fully Threaded	**38EA74**	5
80-mm	Fully Threaded	**25DH49**	5
	Partially Threaded	**25DC85**	5
90-mm	Fully Threaded	**25DH50**	5
	Partially Threaded	**25DC86**	5
100-mm	Partially Threaded	**25DC87**	5
110-mm	Partially Threaded	**29DJ91**	5
140-mm	Partially Threaded	**42GV27**	25
150-mm	Partially Threaded	**38EA51**	5
M24-3.00 Coarse			
40-mm	Fully Threaded	**25DH51**	5
50-mm	Fully Threaded	**25DH52**	5
60-mm	Fully Threaded	**25DH53**	5
70-mm	Fully Threaded	**25DH54**	5
80-mm	Fully Threaded	**25DH55**	5
90-mm	Partially Threaded	**42GV31**	20
M30-3.50 Coarse			
80-mm	Fully Threaded	**38EA76**	1

Left-Hand Hex Head Cap Screws

- Meet ASME B18.2.1 standards

Left-hand threaded fasteners are tightened by turning counterclockwise instead of clockwise.

18-8 Stainless Steel screws are magnetic and chemical resistant to secure heavy-duty objects in harsh environments.

Grade 8 Steel screws are commonly used in motors, generators, plumbing applications, automotive suspensions, and construction in high-stress areas.

Length	Thread Style	Item No.	Pkg. Qty.
18-8 Stainless Steel - Plain			
1/4"-20 Coarse			
2"	Partially Threaded	30Z502	10
5/16"-18 Coarse			
2½"	Partially Threaded	30Z505	5
3"	Partially Threaded	30Z506	5
3/8"-16 Coarse			
¾"	Fully Threaded	30Z507	10
2½"	Partially Threaded	30Z508	5
3"	Partially Threaded	30Z509	5
1/2"-13 Coarse			
3"	Partially Threaded	30Z511	5
Grade 8 Steel - Black Oxide			
1/4"-20 Coarse			
2"	Partially Threaded	30Z463	10
5/16"-18 Coarse			
2"	Partially Threaded	30Z469	10
3/8"-16 Coarse			
1½"	Partially Threaded	30Z473	10
2"	Partially Threaded	30Z475	10
1/2"-13 Coarse			
2"	Partially Threaded	30Z481	10
2½"	Partially Threaded	30Z483	10
5/8"-11 Coarse			
3"	Partially Threaded	30Z492	5
4"	Partially Threaded	30Z493	5
Grade 8 Steel - Zinc Yellow			
3/8"-16 Coarse			
1½"	Partially Threaded	30Z432	10
1¾"	Partially Threaded	30Z433	10
2½"	Partially Threaded	30Z435	5
3"	Partially Threaded	30Z436	5
1/2"-13 Coarse			
2"	Partially Threaded	30Z440	5
2½"	Partially Threaded	30Z442	5
3½"	Partially Threaded	30Z444	5
5/8"-11 Coarse			
2½"	Partially Threaded	30Z450	5
4"	Partially Threaded	30Z452	5
3/4"-10 Coarse			
1¾"	Fully Threaded	30Z454	5
3"	Partially Threaded	30Z457	5
4"	Partially Threaded	30Z458	5

Nylon Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Inch sizes meet ASME B1.1 1982 standards
- Metric sizes meet ANSI B1.13M 1979 standards

Lightweight, light-duty fasteners are chemical and oil resistant. Used in areas where weight is a concern and insulation is needed.

Length	Thread Style	Item No.	Pkg. Qty.
Plain			
1/4"-20 Coarse			
⅜"	Fully Threaded	4AGP8	10
½"	Fully Threaded	4AGP6	10
¾"	Fully Threaded	4AGP7	10
1"	Fully Threaded	4AGV9	10
1¼"	Partially Threaded	4AGP5	10
1½"	Partially Threaded	4AGP4	10
2"	Partially Threaded	4AGW1	10
5/16"-18 Coarse			
¾"	Fully Threaded	4AGR9	10
1"	Fully Threaded	4AGR5	10
1¼"	Partially Threaded	4AGT2	10
1½"	Partially Threaded	4AGT1	10
2"	Partially Threaded	4AGR7	10
2½"	Partially Threaded	4AGT3	10
3"	Partially Threaded	4AGR8	10
3/8"-16 Coarse			
½"	Fully Threaded	4AGR1	10
1"	Fully Threaded	4AGP9	10
1¼"	Partially Threaded	4AGR3	10
1½"	Partially Threaded	4AGR2	10
2"	Partially Threaded	4AGW2	10
2½"	Partially Threaded	4AGR4	10
3"	Partially Threaded	4AGW3	10
1/2"-13 Coarse			
½"	Fully Threaded	4AGP1	5
¾"	Fully Threaded	4AGP3	5
1"	Fully Threaded	4AGV6	5
1¼"	Fully Threaded	4AGN9	5
1½"	Partially Threaded	4AGN8	5
2"	Partially Threaded	4AGV7	5
2½"	Partially Threaded	4AGP2	5
3"	Partially Threaded	4AGV8	5
5/8"-11 Coarse			
½"	Fully Threaded	4AGT4	5
1"	Fully Threaded	4AGW4	5
2"	Partially Threaded	4AGW5	5
M10-1 .50 Coarse			
20-mm	Fully Threaded	4AGT5	10
30-mm	Fully Threaded	4AGT6	10
35-mm	Fully Threaded	4AGT7	10
M5-0.80 Coarse			
12-mm	Fully Threaded	4AGU5	25
20-mm	Fully Threaded	4AGU7	25
25-mm	Fully Threaded	4AGU8	25
M6-1 .00 Coarse			
16-mm	Fully Threaded	4AGW7	25
20-mm	Fully Threaded	4AGW8	25
30-mm	Fully Threaded	4AGW9	25
40-mm	Fully Threaded	4AGX1	25
M8-1 .25 Coarse			
16-mm	Fully Threaded	4AGU9	10
20-mm	Fully Threaded	4AGV1	10
25-mm	Fully Threaded	4AGV2	10
30-mm	Fully Threaded	4AGV3	10
35-mm	Fully Threaded	4AGV4	10
50-mm	Fully Threaded	4AGV5	10

Bronze Hex Head Cap Screws - Made in USA

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- Meet ASME B18.2.1 standards

Stronger than brass, and provide more corrosion resistance to saltwater, gases, and sewage. Used in marine environments, areas of high corrosion and high heat, and in electrical installations. Nonmagnetic and electrically conductive.

Length	Thread Style	Item No.	Pkg. Qty.
Plain			
1/4"-20 Coarse			
½"	Partially Threaded	1YB86	50
¾"	Partially Threaded	1YB87	50
1"	Partially Threaded	1YB88	50
1¼"	Partially Threaded	1YB89	50
1½"	Partially Threaded	1YB90	25
5/16"-18 Coarse			
¾"	Partially Threaded	1YB91	25
1"	Partially Threaded	1YB92	25
1¼"	Partially Threaded	1YB93	10
1½"	Partially Threaded	1YB94	10
2"	Partially Threaded	1YB95	10
2½"	Partially Threaded	1YB96	5
3/8"-16 Coarse			
¾"	Partially Threaded	1YB99	10
1"	Partially Threaded	1YE10	10
1¼"	Fully Threaded	1YE11	10
1½"	Fully Threaded	1YE12	10
1¾"	Fully Threaded	1YE13	10
2"	Fully Threaded	1YE14	10
2½"	Fully Threaded	1YE15	5
1/2"-13 Coarse			
¾"	Partially Threaded	1YE16	10
1"	Partially Threaded	1YE17	10
1¼"	Partially Threaded	1YE18	10
1½"	Partially Threaded	1YE19	10
2"	Partially Threaded	1YE20	5
2½"	Partially Threaded	1YE21	5
5/8"-11 Coarse			
1½"	Partially Threaded	1YE22	5
2"	Partially Threaded	1YE23	5
2½"	Partially Threaded	1YE24	1
3"	Partially Threaded	1YE25	1

Brass Hex Head Cap Screws

- Inch sizes meet ASME B18.2.1 standards
- Metric sizes meet DIN 933 standards

Electrically conductive, nonmagnetic and corrosion resistant. Used on marine equipment and for underwater construction.

Length	Thread Style	Item No.	Pkg. Qty.
Plain			
1/4"-20 Coarse			
1"	Partially Threaded	1YB23	50
2"	Partially Threaded	1YB27	25
¾"	Partially Threaded	1YB21	50
3/8"-16 Coarse			
1¾"	Fully Threaded	1YB51	10
M5-0.80 Coarse			
10-mm	Fully Threaded	6BA70	50
12-mm	Fully Threaded	6BA71	25
16-mm	Fully Threaded	6BA72	25
20-mm	Fully Threaded	6BA73	25
25-mm	Fully Threaded	6BA74	25
30-mm	Fully Threaded	6BA75	25
M6-1 .00 Coarse			
10-mm	Fully Threaded	6BA76	25
12-mm	Fully Threaded	6BA77	25
16-mm	Fully Threaded	6BA78	25
20-mm	Fully Threaded	6BA79	25
25-mm	Fully Threaded	6BA80	10
30-mm	Fully Threaded	6BA81	10
40-mm	Fully Threaded	6BA82	10
M8-1 .25 Coarse			
16-mm	Fully Threaded	6BA83	10
20-mm	Fully Threaded	6BA84	5
25-mm	Fully Threaded	6BA85	5
30-mm	Fully Threaded	6BA86	5
40-mm	Fully Threaded	6BA87	5
M10-1 .50 Coarse			
20-mm	Fully Threaded	6BA88	5
30-mm	Fully Threaded	6BA89	5
40-mm	Fully Threaded	6BA90	5
M12-1 .75 Coarse			
25-mm	Fully Threaded	6BA91	5
40-mm	Fully Threaded	6BA92	1

Structural Bolt Material Grades and Finishes

MATERIAL GRADES

A307B - Medium strength, heat treated carbon steel

A325 Type 1 - Strong, heavy-duty material containing two types of quenched and tempered steel for structural steel-to-steel connections

A490 Type 1 - Made from alloy steel creating a higher strength fastener

Class 10.9 - Strong steel, used for high-stress applications or materials

A394 Type 0 - Used for steel tower bolts; corrosion resistant and chemical resistant, made to withstand environmental pressures

A394 Type 1 - Used for steel transmission tower bolts; corrosion resistant and chemical resistant, made to withstand environmental pressures

FINISHES AND COATINGS

Black Oxide - A black coating that covers the top layer of a ferrous material with a chemical treatment. Corrosion resistant in dry environments.

Hot Dipped Galvanized - Molten zinc finishing process that creates a tightly bonded alloy for superior corrosion resistance. Thicker than other finishes and should be used with hot dipped galvanized nuts.

Zinc Yellow - Yellow-plated zinc finish that protects against corrosion in wet environments.

Grade A307B Heavy Hex Bolts

- Tensile strength: 60,000 psi
- Meet ASME B18.2.1, ASTM A307 standards

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
½"-13 Coarse					
1½"	Partially Threaded	¼ in	11/32 in	**41JU54**	25
2"	Partially Threaded	¾ in	11/32 in	**41JU56**	25
2¼"	Partially Threaded	1 in	11/32 in	**41JU57**	25
2½"	Partially Threaded	1 ¼ in	11/32 in	**41JU58**	25
3"	Partially Threaded	1 ¾ in	11/32 in	**41JU60**	25
⅝"-11 Coarse					
1½"	Fully Threaded	—	27/64 in	**41JU61**	10
3"	Partially Threaded	1 ½ in	27/64 in	**41JU67**	10
3½"	Partially Threaded	2 in	27/64 in	**41JU69**	10
4"	Partially Threaded	2 ½ in	27/64 in	**41JU71**	10
5"	Partially Threaded	3 ½ in	27/64 in	**41JU73**	10
¾"-10 Coarse					
2"	Partially Threaded	¼ in	½ in	**41JU76**	10
3¼"	Partially Threaded	1 ½ in	½ in	**41JU81**	10
3½"	Partially Threaded	1 ¾ in	½ in	**41JU82**	10
3¾"	Partially Threaded	2 in	½ in	**41JU83**	10
⅞"-9 Coarse					
5"	Partially Threaded	3 in	37/64 in	**41JU96**	5
1 "-8 Coarse					
4"	Partially Threaded	1 ¾ in	43/64 in	**41JV03**	5
4½"	Partially Threaded	2 ¼ in	43/64 in	**41JV04**	5
5"	Partially Threaded	2 ¾ in	43/64 in	**41JV05**	5
1 ¼"-7 Coarse					
2¾"	Fully Threaded	—	27/32 in	**41JV12**	5
4½"	Partially Threaded	1 ¾ in	27/32 in	**178D38**	10
5"	Partially Threaded	2 ¼ in	27/32 in	**41JV11**	5

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Hot Dipped Galvanized					
½"-13 Coarse					
1½"	Partially Threaded	¼ in	11/32 in	**41JT95**	25
2"	Partially Threaded	¾ in	11/32 in	**41JT97**	25
2½"	Partially Threaded	1 ¼ in	11/32 in	**41JT99**	25
⅝"-11 Coarse					
1½"	Fully Threaded	—	27/64 in	**41JU03**	10
2"	Partially Threaded	½ in	27/64 in	**41JU05**	10
3"	Partially Threaded	1 ½ in	27/64 in	**41JU09**	10
4½"	Partially Threaded	3 in	27/64 in	**41JU14**	10
¾"-10 Coarse					
2"	Partially Threaded	¼ in	½ in	**41JU18**	10
3"	Partially Threaded	1 ¼ in	½ in	**41JU22**	10
3¼"	Partially Threaded	1 ½ in	½ in	**41JU23**	10
3½"	Partially Threaded	1 ¾ in	½ in	**41JU24**	10
4"	Partially Threaded	2 ¼ in	½ in	**41JU26**	10
⅞"-9 Coarse					
4"	Partially Threaded	2 in	37/64 in	**178C75**	25
4½"	Partially Threaded	2 ½ in	37/64 in	**178C76**	20
5"	Partially Threaded	3 in	37/64 in	**41JU38**	5
1 "-8 Coarse					
4"	Partially Threaded	1 ¾ in	43/64 in	**41JU44**	5

Grade A325 Structural Bolts

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6, ASTM A325 and ASTM F3125 standards

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
½"-13 Coarse					
1½"	Partially Threaded	½ in	5/16 in	**1TA17**	25
1¾"	Partially Threaded	¾ in	5/16 in	**1RE47**	25
2"	Partially Threaded	1 in	5/16 in	**1RE48**	25
⅝"-11 Coarse					
2"	Partially Threaded	¾ in	25/64 in	**1RE59**	10
2½"	Partially Threaded	1 ¼ in	25/64 in	**1RE61**	10
3"	Partially Threaded	1 ¾ in	25/64 in	**1RE63**	10
¾"-10 Coarse					
2"	Partially Threaded	⅝ in	15/32 in	**1TA45**	10
2¼"	Partially Threaded	⅞ in	15/32 in	**1RE75**	5
2½"	Partially Threaded	1 ⅛ in	15/32 in	**1TA47**	10
2¾"	Partially Threaded	1 ⅜ in	15/32 in	**1TA48**	10
3"	Partially Threaded	1 ⅝ in	15/32 in	**1TA49**	10
3¼"	Partially Threaded	1 ⅞ in	15/32 in	**1RE79**	5
⅞"-9 Coarse					
2¾"	Partially Threaded	1 ¼ in	35/64 in	**1TA70**	5
3"	Partially Threaded	1 ½ in	35/64 in	**1TA71**	5
3¼"	Partially Threaded	1 ¾ in	35/64 in	**1RE99**	5
4"	Partially Threaded	2 ½ in	35/64 in	**1TA75**	5
4½"	Partially Threaded	3 in	35/64 in	**1TA77**	5
1 "-8 Coarse					
3"	Partially Threaded	1 ¼ in	39/64 in	**1RU27**	5
4"	Partially Threaded	2 ¼ in	39/64 in	**1TA96**	5
6"	Partially Threaded	4 ¼ in	39/64 in	**1RU37**	5

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Hot Dipped Galvanized					
½"-13 Coarse					
1¾"	Partially Threaded	¾ in	5/16 in	**1TB57**	25
2"	Partially Threaded	1 in	5/16 in	**1TB58**	25
3"	Partially Threaded	2 in	5/16 in	**1TB62**	25
⅝"-11 Coarse					
2"	Partially Threaded	¾ in	25/64 in	**1TB69**	10
2¼"	Partially Threaded	1 in	25/64 in	**1RU87**	10
6"	Partially Threaded	4 ¾ in	25/64 in	**1TB81**	10
¾"-10 Coarse					
2"	Partially Threaded	⅝ in	15/32 in	**1RY11**	5
2¼"	Partially Threaded	⅞ in	15/32 in	**1RY12**	5
2½"	Partially Threaded	1 ⅛ in	15/32 in	**1RY13**	5
⅞"-9 Coarse					
3¼"	Partially Threaded	1 ¾ in	35/64 in	**1RY43**	5
1 "-8 Coarse					
3"	Partially Threaded	1 ¼ in	39/64 in	**1TE41**	5
4"	Partially Threaded	2 ¼ in	39/64 in	**1RY65**	5
6"	Partially Threaded	4 ¼ in	39/64 in	**1RY71**	5
1 ⅛"-7 Coarse					
4½"	Partially Threaded	2 ½ in	11/16 in	**1RY82**	5
5"	Partially Threaded	3 in	11/16 in	**1TE65**	5
1 ¼"-7 Coarse					
4½"	Partially Threaded	2 ½ in	25/32 in	**1TE83**	5
5½"	Partially Threaded	3 ½ in	25/32 in	**1TA10**	5
Zinc Yellow					
½"-13 Coarse					
1¼"	Partially Threaded	¼ in	5/16 in	**1TU47**	50
⅝"-11 Coarse					
1½"	Partially Threaded	¼ in	25/64 in	**1TU49**	25
1¾"	Partially Threaded	½ in	25/64 in	**1TU50**	25
¾"-10 Coarse					
2"	Partially Threaded	⅝ in	15/32 in	**1TU54**	25
2¼"	Partially Threaded	⅞ in	15/32 in	**1TU55**	25

Grade A490 Structural Bolts

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6, ASTM A490 and ASTM F3125 standards

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
5/8"-11 Coarse					
3"	Partially Threaded	1 3/4 in	25/64 in	**31JK55**	10
3 1/4"	Partially Threaded	2 in	25/64 in	**31JK56**	10
3/4"-10 Coarse					
2 1/2"	Partially Threaded	1 1/8 in	15/32 in	**31JK68**	10
2 3/4"	Partially Threaded	1 3/8 in	15/32 in	**31JK69**	10
3"	Partially Threaded	1 5/8 in	15/32 in	**31JK70**	10
3 1/2"	Partially Threaded	2 1/8 in	15/32 in	**31JK72**	10
7/8"-9 Coarse					
3"	Partially Threaded	1 1/2 in	35/64 in	**31JK89**	5
3 1/2"	Partially Threaded	2 in	35/64 in	**31JK91**	5
4"	Partially Threaded	2 1/2 in	35/64 in	**31JK93**	5
1 "-8 Coarse					
6"	Partially Threaded	4 1/4 in	39/64 in	**167D24**	15
8"	Partially Threaded	6 1/4 in	39/64 in	**31JL21**	5
1 1/4"-7 Coarse					
7"	Partially Threaded	5 in	25/32 in	**31JL46**	5
8"	Partially Threaded	6 in	25/32 in	**31JL47**	5

Grade A394 Tower Bolts

- Tensile strength: 74,000 psi for Type 0; 120,000 psi for Type 1
- Meet ASME B18.2.1, ASTM A394 standards

Rod-shaped bolts used to secure steel-to-steel structural connections, or as high-strength anchors for wind power machines. Corrosion and chemical resistant; made to withstand environmental pressures.

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A394 Type 0 Steel - Hot Dipped Galvanized					
5/8"-11 Coarse					
1 1/2"	Fully Threaded	—	27/64 in	**41MC06**	10
2 1/4"	Partially Threaded	3/4 in	27/64 in	**41MC09**	10
3/4"-10 Coarse					
1 1/2"	Fully Threaded	—	1/2 in	**41MC13**	10
2 1/2"	Fully Threaded	—	1/2 in	**167F24**	60
A394 Type 1 Steel - Hot Dipped Galvanized					
5/8"-11 Coarse					
1 1/2"	Fully Threaded	—	27/64 in	**41MC23**	10
2"	Fully Threaded	—	27/64 in	**41MC25**	10
2 3/4"	Partially Threaded	1 1/4 in	27/64 in	**41MC28**	10
3"	Partially Threaded	1 1/2 in	1/2 in	**41MC29**	10
3/4"-10 Coarse					
2"	Fully Threaded	—	1/2 in	**167F34**	70
3"	Partially Threaded	1 1/4 in	1/2 in	**41MC36**	10
3 1/4"	Partially Threaded	1 1/2 in	27/64 in	**167F39**	50
3 1/2"	Partially Threaded	1 3/4 in	1/2 in	**167F40**	50

Tension Control Bolts

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6 standards

Heat-treated heavy-duty bolt-nut-washer assemblies are used in steel-to-steel and steel-frame construction or high-strength applications. Bolt heads are domed and not designed to be driven.The end of the shank has a spline that holds the bolt steady while a power wrench fastens the nut. When the nut is tightened, the spline breaks off, showing that the bolt has been properly installed.

Grade A325 Type 1 is strong, heavy-duty steel containing two types of quenched and tempered steel for structural steel-to-steel connections.

Grade A490 Type 1 is made from alloy steel creating a higher strength fastener.

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A325 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2 1/4"	Partially Threaded	7/8 in	15/32 in	**4XGX7**	270
7/8"-9 Coarse					
2 3/4"	Partially Threaded	1 1/4 in	35/64 in	**4XGY9**	180
3"	Partially Threaded	1 1/2 in	35/64 in	**4XGZ1**	170
1 "-8 Coarse					
2"	Partially Threaded	1/4 in	39/64 in	**4XGZ7**	140
A490 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2"	Partially Threaded	5/8 in	15/32 in	**4XHL1**	280
2 1/2"	Partially Threaded	1 1/8 in	15/32 in	**4XHL3**	250
1 1/8"-7 Coarse					
3"	Partially Threaded	1 in	45/64 in	**4XHP5**	85
3 1/2"	Partially Threaded	1 1/2 in	45/64 in	**4XHP7**	80

Class 10.9 Structural Bolts

- Tensile strength:145,038 psi
- Meet DIN 6914, ISO 7412 standards

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
Black Oxide					
M12-1 .75 Coarse					
40-mm	Partially Threaded	17 mm	8 mm	**38CT11**	100
80-mm	Partially Threaded	57 mm	8 mm	**38CT16**	50
M16-2.00 Coarse					
70-mm	Partially Threaded	42 mm	10 mm	**38CT21**	50
80-mm	Partially Threaded	52 mm	10 mm	**38CT23**	25
M20-2.50 Coarse					
70-mm	Partially Threaded	37 mm	13 mm	**38CT30**	25
90-mm	Partially Threaded	57 mm	13 mm	**38CT34**	25
M24-3.00 Coarse					
120-mm	Partially Threaded	81 mm	15 mm	**38CT47**	20
150-mm	Partially Threaded	111 mm	15 mm	**38CT50**	15
Hot Dipped Galvanized					
M12-1 .75 Coarse					
45-mm	Partially Threaded	22 mm	8 mm	**38CV28**	100
100-mm	Partially Threaded	77 mm	8 mm	**38CV31**	50
M16-2.00 Coarse					
40-mm	Partially Threaded	12 mm	10 mm	**38CV32**	50
75-mm	Partially Threaded	47 mm	10 mm	**38CV39**	50
120-mm	Partially Threaded	92 mm	10 mm	**167F09**	50
M20-2.50 Coarse					
55-mm	Partially Threaded	22 mm	13 mm	**38CV48**	25
60-mm	Partially Threaded	27 mm	13 mm	**38CV49**	25
70-mm	Partially Threaded	37 mm	13 mm	**38CV51**	25
M24-3.00 Coarse					
60-mm	Partially Threaded	21 mm	15 mm	**38CV67**	25
85-mm	Partially Threaded	46 mm	15 mm	**38CV71**	25
110-mm	Partially Threaded	71 mm	15 mm	**38CV76**	25

Tension Control Bolts - Made in USA

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6 standards

Grainger's product suppliers have certified that products below comply with "Made in USA" requirements in accordance with FTC rules and guidance.

Heat-treated heavy-duty bolt-nut-washer assemblies are used in steel-to-steel and steel-frame construction or high-strength applications. Bolt heads are domed and not designed to be driven.The end of the shank has a spline that holds the bolt steady while a power wrench fastens the nut. When the nut is tightened, the spline breaks off, showing that the bolt has been properly installed.

Grade A325 Type 1 is strong, heavy-duty steel containing two types of quenched and tempered steel for structural steel-to-steel connections.

Grade A490 Type 1 is made from alloy steel creating a higher strength fastener.

Length	Thread Style	Grip Size	Head Height	Item No.	Pkg. Qty.
A325 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
2"	Partially Threaded	5/8 in	15/32 in	**4XHC5**	280
2 1/2"	Partially Threaded	1 1/8 in	15/32 in	**4XHC7**	250
3"	Partially Threaded	1 5/8 in	15/32 in	**4XHC9**	240
3 1/2"	Partially Threaded	2 1/8 in	15/32 in	**4XHD2**	220
7/8"-9 Coarse					
2"	Partially Threaded	1/2 in	35/64 in	**4XHE1**	200
2 1/4"	Partially Threaded	3/4 in	35/64 in	**4XHE2**	190
1 "-8 Coarse					
2 1/2"	Partially Threaded	3/4 in	39/64 in	**4XHF8**	130
3"	Partially Threaded	1 1/4 in	39/64 in	**4XHG1**	120
4"	Partially Threaded	2 1/4 in	39/64 in	**4XHG5**	100
A490 Type 1 Steel - Black Oxide					
3/4"-10 Coarse					
3 1/2"	Partially Threaded	2 1/8 in	15/32 in	**4XHH4**	220
4"	Partially Threaded	2 5/8 in	15/32 in	**4XHH6**	190
7/8"-9 Coarse					
2"	Partially Threaded	1/2 in	35/64 in	**4XHH7**	200
2 1/2"	Partially Threaded	1 in	35/64 in	**4XHH9**	180
3"	Partially Threaded	1 1/2 in	35/64 in	**4XHJ2**	170
3 1/2"	Partially Threaded	2 in	35/64 in	**4XHJ4**	150
1 "-8 Coarse					
2"	Partially Threaded	1/4 in	39/64 in	**4XHJ5**	140
3"	Partially Threaded	1 1/4 in	39/64 in	**4XHJ9**	120
4"	Partially Threaded	2 1/4 in	39/64 in	**4XHK2**	100
4 1/2"	Partially Threaded	2 3/4 in	39/64 in	**4XHK4**	95
1 1/8"-7 Coarse					
4 1/2"	Partially Threaded	2 1/2 in	45/64 in	**4XHK7**	70
5"	Partially Threaded	3 in	45/64 in	**4XHK8**	60

Flange Bolts

- Inch sizes meet ASME B18.2.1 standards
- Grade E9 bolts meet IFI 115 standards
- Metric sizes meet DIN 6291 standards

Bolts have a circular flange under the head that acts like a washer to distribute pressure where the screw meets the surface.

Serrated flange bolts have teeth that grip surfaces to resist vibration and ensure a tight hold.

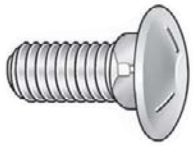
Grade E9 bolts have a 12-pt. head design to handle higher torques.

Length	Thread Style	Flange Type	Tensile Strength	Head Height	Item No.	Pkg. Qty.
Grade 5 Steel - Zinc Plated						
¼"-20 Coarse						
½"	Fully Threaded	Serrated	120,000 psi	9/32 in	**2FB87**	100
	Fully Threaded	Standard	120,000 psi	9/32 in	**41MX89**	50
⅝"	Fully Threaded	Serrated	120,000 psi	9/32 in	**2FB89**	100
¾"	Fully Threaded	Serrated	120,000 psi	9/32 in	**2FB91**	100
	Fully Threaded	Standard	120,000 psi	9/32 in	**41MX91**	50
1"	Fully Threaded	Serrated	120,000 psi	9/32 in	**2FB93**	100
	Fully Threaded	Standard	120,000 psi	9/32 in	**41MX92**	50
1¼"	Partially Threaded	Serrated	120,000 psi	9/32 in	**2FB95**	50
1½"	Partially Threaded	Standard	120,000 psi	9/32 in	**41MX94**	50
	Partially Threaded	Serrated	120,000 psi	9/32 in	**2FB97**	50
5/16"-18 Coarse						
¾"	Fully Threaded	Serrated	120,000 psi	21/64 in	**2FE14**	50
1"	Fully Threaded	Serrated	120,000 psi	21/64 in	**2FE16**	50
1¼"	Fully Threaded	Serrated	120,000 psi	21/64 in	**2FE18**	50
1½"	Partially Threaded	Serrated	120,000 psi	21/64 in	**2FE20**	50
⅜"-16 Coarse						
½"	Fully Threaded	Standard	120,000 psi	25/64 in	**41MY06**	25
¾"	Fully Threaded	Serrated	120,000 psi	25/64 in	**2FE22**	25
1"	Fully Threaded	Serrated	120,000 psi	25/64 in	**2FE24**	25
1¼"	Fully Threaded	Serrated	120,000 psi	25/64 in	**2FE26**	25
1½"	Partially Threaded	Serrated	120,000 psi	25/64 in	**2FE28**	25
1¾"	Partially Threaded	Serrated	120,000 psi	25/64 in	**2FE30**	25
½"-13 Coarse						
1"	Fully Threaded	Serrated	120,000 psi	½ in	**2FE33**	10
1¼"	Fully Threaded	Serrated	120,000 psi	½ in	**2FE35**	10
1½"	Fully Threaded	Serrated	120,000 psi	½ in	**2FE37**	10
2"	Partially Threaded	Standard	120,000 psi	½ in	**41MY18**	10
Grade 8 Steel - Black Oxide						
¼"-20 Coarse						
½"	Fully Threaded	Standard	150,000 psi	9/32 in	**22A408**	100
¾"	Fully Threaded	Standard	150,000 psi	9/32 in	**22A409**	100
1"	Fully Threaded	Standard	150,000 psi	9/32 in	**22A410**	100
5/16"-18 Coarse						
¾"	Fully Threaded	Standard	150,000 psi	5/16 in	**22A415**	50
1"	Fully Threaded	Standard	150,000 psi	5/16 in	**22A416**	50
1¼"	Fully Threaded	Standard	150,000 psi	5/16 in	**22A417**	50
1½"	Partially Threaded	Standard	150,000 psi	5/16 in	**22A418**	50
⅜"-16 Coarse						
¾"	Fully Threaded	Standard	150,000 psi	⅜ in	**22A421**	25
1¼"	Fully Threaded	Standard	150,000 psi	25/64 in	**2TJ78**	25
1½"	Partially Threaded	Standard	150,000 psi	25/64 in	**2TJ79**	25
2"	Partially Threaded	Standard	150,000 psi	⅜ in	**22A438**	25
7/16"-14 Coarse						
1"	Fully Threaded	Standard	150,000 psi	15/32 in	**22A425**	25
1½"	Fully Threaded	Standard	150,000 psi	15/32 in	**22A427**	25
4"	Partially Threaded	Standard	150,000 psi	15/32 in	**22A433**	25
½"-13 Coarse						
1½"	Fully Threaded	Standard	150,000 psi	½ in	**2TJ81**	25
2"	Partially Threaded	Standard	150,000 psi	½ in	**2TJ83**	25
½"-20 Fine						
1¼"	Fully Threaded	Standard	150,000 psi	½ in	**22A448**	25
1½"	Fully Threaded	Standard	150,000 psi	½ in	**22A449**	25
2"	Partially Threaded	Standard	150,000 psi	½ in	**22A451**	25
⅝"-11 Coarse						
1½"	Fully Threaded	Standard	150,000 psi	⅝ in	**22A441**	25
1¾"	Fully Threaded	Standard	150,000 psi	⅝ in	**2TJ88**	25
2"	Partially Threaded	Standard	150,000 psi	⅝ in	**2TJ89**	25
2½"	Partially Threaded	Standard	150,000 psi	⅝ in	**2TJ90**	15
⅝"-18 Fine						
2½"	Partially Threaded	Standard	150,000 psi	⅝ in	**22A462**	15
3"	Partially Threaded	Standard	150,000 psi	⅝ in	**22A463**	15
3¼"	Partially Threaded	Standard	150,000 psi	⅝ in	**22A464**	15
¾"-10 Coarse						
2½"	Partially Threaded	Standard	150,000 psi	47/64 in	**2TJ95**	15
3"	Partially Threaded	Standard	150,000 psi	47/64 in	**22A446**	15
3½"	Partially Threaded	Standard	150,000 psi	47/64 in	**22A436**	10
4"	Partially Threaded	Standard	150,000 psi	47/64 in	**22A437**	10
¾"-16 Fine						
2¼"	Partially Threaded	Standard	150,000 psi	47/64 in	**22A470**	15
3½"	Partially Threaded	Standard	150,000 psi	47/64 in	**22A473**	10
Grade 8 Steel - Phosphate and Oil						
⅜"-16 Coarse						
1"	Fully Threaded	Standard	150,000 psi	25/64 in	**41MY29**	25
1¼"	Fully Threaded	Standard	150,000 psi	25/64 in	**41MY30**	25
1½"	Partially Threaded	Standard	150,000 psi	25/64 in	**41MY31**	25
3½"	Partially Threaded	Standard	150,000 psi	25/64 in	**41MY38**	25
½"-13 Coarse						
1¼"	Fully Threaded	Standard	150,000 psi	½ in	**41MY41**	25
1½"	Fully Threaded	Standard	150,000 psi	½ in	**41MY42**	25
1¾"	Fully Threaded	Standard	150,000 psi	½ in	**41MY43**	25
2"	Partially Threaded	Standard	150,000 psi	½ in	**41MY44**	25
4½"	Partially Threaded	Standard	150,000 psi	½ in	**41MY51**	10
⅝"-11 Coarse						
2"	Fully Threaded	Standard	150,000 psi	⅝ in	**41MY56**	10
2½"	Partially Threaded	Standard	150,000 psi	⅝ in	**157D82**	70
3"	Partially Threaded	Standard	150,000 psi	⅝ in	**157D84**	60
Grade E9 Alloy Steel - Plain						
¼"-20 Coarse						
¾"	Fully Threaded	Standard	170,000 psi	17/64 in	**21C341**	100
1"	Fully Threaded	Standard	170,000 psi	17/64 in	**2FA46**	100
1¼"	Fully Threaded	Standard	170,000 psi	17/64 in	**2FA48**	50
2"	Partially Threaded	Standard	170,000 psi	17/64 in	**2FA53**	25
¼"-28 Fine						
¾"	Fully Threaded	Standard	170,000 psi	17/64 in	**2FA55**	100
1"	Fully Threaded	Standard	170,000 psi	17/64 in	**2FA57**	100

Length	Thread Style	Flange Type	Tensile Strength	Head Height	Item No.	Pkg. Qty.
5/16"-18 Coarse						
¾"	Fully Threaded	Standard	170,000 psi	5/16 in	**2FA63**	50
1"	Fully Threaded	Standard	170,000 psi	5/16 in	**2FA67**	50
1¼"	Fully Threaded	Standard	170,000 psi	5/16 in	**2FA70**	50
5/16"-24 Fine						
1"	Fully Threaded	Standard	170,000 psi	5/16 in	**2FA82**	25
1½"	Partially Threaded	Standard	170,000 psi	5/16 in	**2FA86**	25
⅜"-16 Coarse						
¾"	Fully Threaded	Standard	170,000 psi	⅜ in	**21C343**	25
1"	Fully Threaded	Standard	170,000 psi	⅜ in	**2FA88**	25
1¼"	Fully Threaded	Standard	170,000 psi	⅜ in	**2FA91**	25
1½"	Partially Threaded	Standard	170,000 psi	⅜ in	**2FA93**	25
⅜"-24 Fine						
1"	Fully Threaded	Standard	170,000 psi	⅜ in	**2FB15**	25
1½"	Partially Threaded	Standard	170,000 psi	⅜ in	**2FB20**	25
½"-13 Coarse						
1¼"	Fully Threaded	Standard	170,000 psi	½ in	**2FB36**	10
1½"	Partially Threaded	Standard	170,000 psi	½ in	**2FB38**	10
2"	Partially Threaded	Standard	170,000 psi	½ in	**2FB40**	10
½"-20 Fine						
1½"	Partially Threaded	Standard	170,000 psi	½ in	**2FB51**	10
2"	Partially Threaded	Standard	170,000 psi	½ in	**2FB53**	5
⅝"-11 Coarse						
1¾"	Fully Threaded	Standard	170,000 psi	⅝ in	**2FB57**	5
2"	Partially Threaded	Standard	170,000 psi	⅝ in	**2FB59**	5
3"	Partially Threaded	Standard	170,000 psi	⅝ in	**2FB68**	5
¾"-10 Coarse						
2"	Fully Threaded	Standard	170,000 psi	¾ in	**2FB76**	5
2½"	Partially Threaded	Standard	170,000 psi	¾ in	**2FB78**	5

Length	Thread Style	Flange Type	Tensile Strength	Head Height	Item No.	Pkg. Qty.
Class 8.8 Steel - Zinc Plated						
M6-1 .00 Coarse						
12-mm	Fully Threaded	Standard	116,030 psi	6.6 mm	**38CP93**	100
16-mm	Fully Threaded	Serrated	116,030 psi	6.6 mm	**38CP94**	100
20-mm	Partially Threaded	Serrated	116,030 psi	6.6 mm	**38CP95**	100
M8-1 .25 Coarse						
16-mm	Fully Threaded	Serrated	116,030 psi	8.1 mm	**38CP98**	100
20-mm	Fully Threaded	Standard	116,030 psi	8.1 mm	**38CP99**	100
25-mm	Partially Threaded	Standard	116,030 psi	8.1 mm	**38CR01**	100
M10-1 .50 Coarse						
20-mm	Fully Threaded	Standard	116,030 psi	9.2 mm	**38CR03**	50
35-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CR06**	50
40-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CR07**	50
M12-1 .75 Coarse						
20-mm	Fully Threaded	Standard	116,030 psi	11.5 mm	**38CR08**	50
35-mm	Partially Threaded	Standard	116,030 psi	11.5 mm	**38CR11**	50
40-mm	Partially Threaded	Standard	116,030 psi	11.5 mm	**38CR12**	50
Class 8.8 Steel - Zinc Yellow						
M8-1 .25 Coarse						
25-mm	Partially Threaded	Standard	116,030 psi	8.1 mm	**38CP41**	100
30-mm	Partially Threaded	Standard	116,030 psi	8.1 mm	**38CP42**	100
35-mm	Partially Threaded	Standard	116,030 psi	8.1 mm	**38CP43**	100
M10-1 .50 Coarse						
30-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CP52**	50
35-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CP53**	50
45-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CP55**	50
50-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CP56**	50
60-mm	Partially Threaded	Standard	116,030 psi	9.2 mm	**38CP57**	50
M12-1 .75 Coarse						
30-mm	Fully Threaded	Standard	116,030 psi	11.5 mm	**38CP62**	50
50-mm	Partially Threaded	Standard	116,030 psi	11.5 mm	**38CP66**	50
70-mm	Partially Threaded	Standard	116,030 psi	11.5 mm	**38CP68**	25
M16-2.00 Coarse						
60-mm	Partially Threaded	Standard	116,030 psi	14.4 mm	**156Y57**	75
80-mm	Partially Threaded	Standard	116,030 psi	14.4 mm	**38CP85**	25
100-mm	Partially Threaded	Standard	116,030 psi	14.4 mm	**38CP86**	25
M20-2.50 Coarse						
50-mm	Partially Threaded	Standard	116,030 psi	17.1 mm	**38CP87**	10
60-mm	Partially Threaded	Standard	116,030 psi	17.1 mm	**38CP88**	10
90-mm	Partially Threaded	Standard	116,030 psi	17.1 mm	**38CP91**	10
Class 10.9 Steel - Black Oxide						
M6-1 .00 Coarse						
20-mm	Partially Threaded	Standard	145,038 psi	6.6 mm	**38CU41**	100
M8-1 .25 Coarse						
20-mm	Fully Threaded	Standard	145,038 psi	8.1 mm	**38CU42**	100
25-mm	Partially Threaded	Standard	145,038 psi	8.1 mm	**38CU43**	100
40-mm	Partially Threaded	Standard	145,038 psi	8.1 mm	**38CU45**	100
M10-1 .50 Coarse						
25-mm	Fully Threaded	Standard	145,038 psi	9.2 mm	**38CU48**	50
60-mm	Partially Threaded	Standard	145,038 psi	9.2 mm	**38CU52**	50
70-mm	Partially Threaded	Standard	145,038 psi	9.2 mm	**38CU53**	50
M12-1 .75 Coarse						
25-mm	Fully Threaded	Standard	145,038 psi	11.5 mm	**38CU54**	50
50-mm	Partially Threaded	Standard	145,038 psi	11.5 mm	**38CU59**	50
60-mm	Partially Threaded	Standard	145,038 psi	11.5 mm	**38CU60**	50
70-mm	Partially Threaded	Standard	145,038 psi	11.5 mm	**38CU61**	25
80-mm	Partially Threaded	Standard	145,038 psi	11.5 mm	**38CU62**	25
90-mm	Partially Threaded	Standard	145,038 psi	11.5 mm	**38CU63**	25
M16-2.00 Coarse						
40-mm	Partially Threaded	Standard	145,038 psi	14.4 mm	**38CU68**	25
60-mm	Partially Threaded	Standard	145,038 psi	14.4 mm	**38CU70**	25

Material	Finish	No. of Pieces	System of Measurement	Container Type	Item No.
Flange Bolt Assortment					
Steel	Black Oxide	94	Inch	Metal Box	**53WP97**



Steel Carriage Bolts

- Meet ASME B18.5 and SAE J429 standards

Use to fasten metal to metal or metal to wood. Square neck prevents bolt from turning while the nut is tightened.

Note: Additional sizes and bulk packs are available on Grainger.com®; search for "carriage bolts."

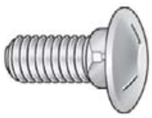
GRADE 2
- Tensile strength: 74,000 psi

GRADE 5
- Tensile strength: 120,000 psi

GRADE 8
- Tensile strength: 150,00 psi

Thread	¼-20	5⁄16-18	⅜-16	7⁄16-14	½-13	⅝-11	¾-10
Head Dia.	0.563"	0.688"	0.782"	0.907"	1.032"	1.219"	1.469"
Head Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Square Width	0.245"	0.307"	0.368"	0.431"	0.492"	0.616"	0.741"
Square Height	0.125"	0.156"	0.188"	0.219"	0.250"	0.313"	0.375"
Drill Size	17⁄64"	21⁄64"	25⁄64"	29⁄64"	33⁄64"	41⁄64"	49⁄64"

Length	Finish	Item No.	Pkg. Qty.
Grade 2			
¼"-20 Coarse			
½"	Black Oxide	31HZ22	100
	Zinc Plated	2XA26	100
⅝"	Zinc Plated	31HZ64	100
¾"	Black Oxide	21A879	100
	Zinc Plated	1LE79	100
1"	Black Oxide	21A880	100
	Galvanized	1LU71	100
	Zinc Plated	1LE80	100
1¼"	Galvanized	1LU72	100
	Zinc Plated	1LE81	100
1½"	Black Oxide	21A882	100
	Galvanized	1LU73	100
	Zinc Plated	1LE82	100
1¾"	Zinc Plated	1LE83	100
2"	Black Oxide	21A884	100
	Black Oxide	32TH86	800
	Galvanized	1LU74	100
	Zinc Plated	1LE84	100
2¼"	Zinc Plated	1LE85	100
2½"	Black Oxide	21A885	100
	Black Oxide	32TH87	700
	Zinc Plated	1LE86	100
2¾"	Zinc Plated	1LE87	100
3"	Black Oxide	31HZ23	50
	Galvanized	31JA17	50
	Zinc Plated	31HZ65	50
3½"	Black Oxide	31HZ24	50
	Galvanized	31JA18	50
	Zinc Plated	31HZ66	50
4"	Black Oxide	31HZ25	50
	Galvanized	31JA19	50
	Zinc Plated	31HZ67	50
4½"	Black Oxide	31HZ26	50
	Zinc Plated	31HZ68	50
5"	Black Oxide	31HZ27	50
	Galvanized	31JA20	50
	Zinc Plated	31HZ69	50
5⁄16"-18 Coarse			
¾"	Zinc Plated	1LE98	100
1"	Black Oxide	21A887	100
	Black Oxide	32TH93	800
	Galvanized	1LU84	100
	Zinc Plated	1LE99	100
1¼"	Black Oxide	21A888	100
	Galvanized	31JA21	100
	Zinc Plated	1LU10	100
1½"	Black Oxide	21A889	100
	Black Oxide	32TH94	600
	Galvanized	1LU85	100
	Zinc Plated	1LU11	100
1¾"	Zinc Plated	1LU12	100
2"	Black Oxide	21A891	100
	Black Oxide	32TH95	500
	Galvanized	1LU86	100
	Zinc Plated	1LU13	100
2¼"	Zinc Plated	1LU14	100
2½"	Black Oxide	21A892	100
	Black Oxide	32TH96	400
	Galvanized	1LU87	100
	Zinc Plated	1LU15	100
2¾"	Zinc Plated	31HZ70	50
3"	Black Oxide	31HZ28	50
	Galvanized	31JA22	50
	Zinc Plated	31HZ71	50
3½"	Black Oxide	31HZ29	50
	Galvanized	1LU89	50
	Zinc Plated	1LU18	50
4"	Black Oxide	31HZ30	50
	Galvanized	1LU90	50
	Zinc Plated	1LU19	50
4½"	Black Oxide	31HZ31	50
	Zinc Plated	1LU20	50
5"	Black Oxide	31HZ32	50
	Galvanized	1LU92	50
	Zinc Plated	1LU21	50
5½"	Black Oxide	31HZ33	50
	Zinc Plated	1LU22	50
6"	Black Oxide	31HZ34	50
	Zinc Plated	1LU23	50
⅜"-16 Coarse			
¾"	Zinc Plated	2XA29	100
1"	Black Oxide	21A894	100
	Black Oxide	32TJ05	500
	Galvanized	1LU95	100
	Zinc Plated	1LU24	100
1¼"	Galvanized	31JA23	100
	Zinc Plated	1LU25	100
1½"	Black Oxide	21A895	100
	Black Oxide	32TJ06	400
	Galvanized	1LU96	100
	Zinc Plated	1LU26	100
1¾"	Zinc Plated	1LU27	100
2"	Black Oxide	31HZ35	50
	Galvanized	31JA24	50
	Zinc Plated	31HZ72	50
2¼"	Zinc Plated	1LU29	50
2½"	Black Oxide	31HZ36	50
	Galvanized	1LU98	50
	Zinc Plated	1LU30	50
2¾"	Zinc Plated	1LU31	50
3"	Black Oxide	31HZ37	25
	Galvanized	31JA25	25
	Zinc Plated	31HZ73	25
3½"	Black Oxide	31HZ38	25
	Galvanized	31JA26	25
	Zinc Plated	31HZ74	25
4"	Black Oxide	21A901	25
	Black Oxide	32TJ11	200
	Galvanized	31JA27	25
	Zinc Plated	31HZ75	25
4½"	Black Oxide	31HZ39	10
	Zinc Plated	31HZ76	10
5"	Black Oxide	31HZ40	10
	Galvanized	31JA28	10
	Zinc Plated	31HZ77	10
5½"	Zinc Plated	31HZ78	10
6"	Black Oxide	31HZ41	10
	Galvanized	31JA29	10
	Zinc Plated	31HZ79	10
7⁄16"-14 Coarse			
1"	Zinc Plated	31HZ82	50
1¼"	Black Oxide	31HZ44	50
1½"	Black Oxide	31HZ45	50
2"	Black Oxide	31HZ46	50
	Zinc Plated	1LU48	50
2½"	Black Oxide	31HZ47	25
3"	Zinc Plated	31HZ83	25
4"	Zinc Plated	31HZ84	10
4½"	Zinc Plated	31HZ85	10
½"-13 Coarse			
1"	Zinc Plated	31HZ86	50
1¼"	Black Oxide	31HZ48	50
	Zinc Plated	31HZ87	50
1½"	Black Oxide	21A903	50
	Black Oxide	32TJ16	200
	Galvanized	1LY21	50
	Zinc Plated	1LU51	50
1¾"	Black Oxide	31HZ49	25
	Zinc Plated	31HZ88	25
2"	Black Oxide	31HZ50	25
	Galvanized	31JA30	25
	Zinc Plated	31HZ89	25
2¼"	Zinc Plated	31HZ90	25
2½"	Black Oxide	21A906	25
	Black Oxide	32TJ18	150
	Galvanized	31JA31	25
	Zinc Plated	31HZ91	25
2¾"	Zinc Plated	31HZ92	25
3"	Black Oxide	21A907	25
	Black Oxide	32TJ19	125
	Galvanized	31JA32	25
	Zinc Plated	31HZ93	25
3½"	Black Oxide	21A908	25
	Galvanized	1LY25	25
	Zinc Plated	1LU55	25
4"	Black Oxide	21A909	10
	Black Oxide	32TJ20	100
	Galvanized	31JA33	10
	Zinc Plated	31HZ94	10
5"	Black Oxide	21A911	10
	Galvanized	31JA34	10
	Zinc Plated	31HZ95	10
6"	Black Oxide	21A913	10
	Galvanized	31JA35	10
	Zinc Plated	31HZ96	10
⅝"-11 Coarse			
1½"	Zinc Plated	31JA01	10
2"	Black Oxide	31HZ51	10
	Galvanized	31JA36	10
	Zinc Plated	31JA02	10
2¼"	Black Oxide	31HZ52	10
2½"	Black Oxide	31HZ53	10
	Galvanized	31JA37	10
	Zinc Plated	31JA03	10
3"	Black Oxide	21A919	10
	Galvanized	31JA38	10
	Zinc Plated	31JA04	10
3½"	Black Oxide	31HZ54	10
	Zinc Plated	31JA05	10
4"	Black Oxide	31HZ55	10
	Galvanized	31JA39	10
	Zinc Plated	31JA06	10
4½"	Zinc Plated	31JA07	10
5"	Black Oxide	31HZ56	10
	Galvanized	31JA40	10
	Zinc Plated	31JA08	10
6"	Black Oxide	31HZ57	10
	Zinc Plated	31JA09	10
¾"-10 Coarse			
2"	Black Oxide	21A928	10
	Zinc Plated	31JA10	10
3"	Black Oxide	31HZ58	10
	Zinc Plated	31JA11	10
4"	Black Oxide	31HZ59	10
	Zinc Plated	31JA12	10
5"	Black Oxide	31HZ60	10
	Zinc Plated	31JA13	10
6"	Black Oxide	31HZ61	10
	Zinc Plated	31JA14	10
Grade 5			
¼"-20 Coarse			
¾"	Zinc Plated	2DU36	100
1¼"	Zinc Plated	2DU38	100
1½"	Zinc Plated	2DU39	100
2"	Zinc Plated	2DU40	100
2½"	Zinc Plated	2DU41	100
3"	Zinc Plated	31JA41	50
3½"	Zinc Plated	31JA42	50
4"	Zinc Plated	31JA43	50
5"	Zinc Plated	31JA44	50
5⁄16"-18 Coarse			
¾"	Zinc Plated	2DU42	100
1"	Zinc Plated	2DU43	100
1¼"	Zinc Plated	2DU44	100
1½"	Zinc Plated	2DU45	100
2½"	Zinc Plated	31JA45	50
3"	Zinc Plated	31JA46	50
4"	Zinc Plated	31JA47	50
5"	Zinc Plated	31JA48	50
⅜"-16 Coarse			
¾"	Zinc Plated	2DU49	100
1"	Zinc Plated	2DU50	100
1¼"	Zinc Plated	2DU51	100
1½"	Zinc Plated	2DU52	100
1¾"	Zinc Plated	2DU53	100
2"	Zinc Plated	31JA49	50
2¼"	Zinc Plated	2DU55	50
2½"	Zinc Plated	2DU56	50
3"	Zinc Plated	31JA50	25
3½"	Zinc Plated	31JA51	25
4"	Zinc Plated	31JA52	25
5"	Zinc Plated	31JA53	10
6"	Zinc Plated	31JA54	10
½"-13 Coarse			
1"	Zinc Plated	2DU60	50
1¼"	Black Oxide	21A942	50
	Zinc Plated	2DU61	50
1½"	Black Oxide	21A943	50
	Zinc Plated	2DU62	50
1¾"	Black Oxide	21A944	50
	Zinc Plated	31JA55	25
2"	Black Oxide	21A945	50
	Zinc Plated	31JA56	25
2½"	Black Oxide	21A946	25
	Zinc Plated	31JA57	25
3"	Black Oxide	21A947	25
	Zinc Plated	31JA58	25
3½"	Black Oxide	21A948	25
	Zinc Plated	31JA59	10
4"	Black Oxide	21A949	10
	Zinc Plated	31JA60	10
4½"	Black Oxide	21A950	10
	Zinc Plated	2DU69	25
5"	Black Oxide	21A951	10
	Zinc Plated	31JA61	10
5½"	Black Oxide	21A952	10
6"	Black Oxide	21A953	10
	Zinc Plated	31JA62	10
⅝"-11 Coarse			
2"	Black Oxide	21A957	25
	Zinc Plated	31JA63	10
2¼"	Black Oxide	21A958	25
2½"	Black Oxide	21A959	25
	Zinc Plated	31JA64	10
3"	Black Oxide	21A961	10
	Zinc Plated	31JA65	10
3½"	Black Oxide	21A962	10
	Zinc Plated	31JA66	10
4"	Black Oxide	21A963	5
	Zinc Plated	31JA67	10
4½"	Black Oxide	21A964	5
5"	Black Oxide	21A965	5
	Zinc Plated	31JA68	10
5½"	Black Oxide	21A966	5
6"	Zinc Plated	31JA69	10
¾"-10 Coarse			
2"	Zinc Plated	31JA70	10
3"	Black Oxide	21A972	5
	Zinc Plated	31JA71	10
3½"	Black Oxide	21A973	5
4"	Black Oxide	21A974	5
	Zinc Plated	31JA72	10
4½"	Black Oxide	21A975	5
5"	Black Oxide	21A976	5
	Zinc Plated	31JA73	10
6"	Black Oxide	21A978	5
Grade 8			
¼"-20 Coarse			
1¾"	Black Oxide	21A883	100
5⁄16"-18 Coarse			
¾"	Black Oxide	21A886	100
1¾"	Black Oxide	21A890	100
⅜"-16 Coarse			
¾"	Black Oxide	21A893	100
1¾"	Black Oxide	21A896	100
2"	Black Oxide	21A897	100
2½"	Black Oxide	21A898	100
3"	Black Oxide	21A899	100
5"	Black Oxide	21A902	25
½"-13 Coarse			
1¾"	Black Oxide	21A904	50
2"	Black Oxide	21A905	50
4½"	Black Oxide	21A910	10
5½"	Black Oxide	21A912	10
⅝"-11 Coarse			
2"	Black Oxide	21A915	25
2¼"	Black Oxide	21A916	25
2½"	Black Oxide	21A917	25
2¾"	Black Oxide	21A918	25
3½"	Black Oxide	21A920	10
4"	Black Oxide	21A921	5
4½"	Black Oxide	21A922	5
5"	Black Oxide	21A923	5
6"	Black Oxide	21A924	5
¾"-10 Coarse			
2½"	Black Oxide	21A929	10
2¾"	Black Oxide	21A930	10
3"	Black Oxide	21A931	5
3½"	Black Oxide	21A932	5
4"	Black Oxide	21A933	5
4½"	Black Oxide	21A934	5
5"	Black Oxide	21A935	5
5½"	Black Oxide	21A936	5
6"	Black Oxide	21A937	5



18-8 Stainless Steel Carriage Bolts

- Tensile strength: 100,000 psi
- Plain finish
- Meet ASME B18.5 and ASTM F593 standards

Compatible with ACQ treated wood.

Length	Item No.	Pkg. Qty.
18-8 Stainless Steel		
¼"-20 Coarse		
½"	1VB78	100
⅝"	1VB79	100
¾"	1VB80	100
1"	31JA74	100
1¼"	31JA75	100
1½"	31JA76	100
1¾"	31JA77	100
2"	31JA78	100
2¼"	31JA79	100
2½"	31JA80	100
2¾"	31JA81	100
3"	31JA82	50
3½"	31JA83	50
4"	31JA84	50
5"	31JA85	50
5⁄16"-18 Coarse		
¾"	31JA86	100
1"	31JA87	100
1¼"	31JA88	100
1½"	31JA89	100
1¾"	31JA90	100
2"	31JA91	100
2¼"	31JA92	100
3"	31JA94	50
3½"	31JA95	50
4"	31JA96	50
5"	1VE15	5
⅜"-16 Coarse		
¾"	1VE16	25
1"	31JA97	100
1¼"	31JA98	100
1½"	31JA99	100
1¾"	1VE20	25
2"	31JC01	50
2½"	31JC02	50
3"	31JC03	25
3½"	31JC04	25
4"	31JC05	25
4½"	31JC06	10
5"	31JC07	10
6"	31JC08	10
½"-13 Coarse		
1"	1VE30	10
1¼"	31JC09	50
1½"	31JC10	50
1¾"	31JC11	25
2"	31JC12	25
2½"	31JC13	25
3"	31JC14	25
3½"	31JC15	10
4"	31JC16	10
5"	31JC17	10
6"	31JC18	10

S-Hooks

Closed Eye—Secure attachment at one end to strap, wire rope assembly, or rope. To be used for pulling, hoisting, winching, or other rigging applications.

- 316 stainless steel

Open Eye—For use with light ceiling fixtures and canvas tie-downs. Do not use for lifting.

- Zinc-plated carbon steel

Closed Eye

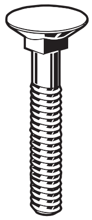
Open Eye

Width (in.)	Length (in.)	Max. Working Load	Item No.	Pkg. Qty.
Closed Eye				
13⁄32 in	2 15⁄16 in	660 lb	**5LAD1**	1
1 ½ in	1 ¾ in	225 lb	**5LAC9**	1
2 in	2 7⁄16 in	440 lb	**5LAD0**	1
2 ¾ in	3 7⁄16 in	880 lb	**5LAD2**	1
Open Eye				
⅜ in	¾ in	7 lb	**2ZDK2**	50
17⁄32 in	1 in	16 lb	**2ZDK3**	50
23⁄32 in	1 ½ in	26 lb	**2ZDK4**	10
⅞ in	1 ¾ in	40 lb	**2ZDK5**	10
1 in	2 ⅛ in	55 lb	**2ZDK6**	10
1 in	3 in	130 lb	**2ZDK7**	10
1 ¾ in	3 ½ in	160 lb	**2ZDK8**	10

Elevator Bolts

- Made of Grade A307A steel
- Tensile strength: 60,000 psi
- Meet ASME B18.5 standards

Flat, smooth, countersunk head allows minimal extrusion from the wall; square neck provides a locking feature. For use where there is little space between elevator and wall.

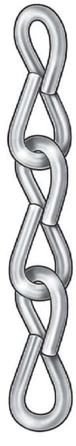


Length	Head Dia.	Head Height	Pkg. Qty.	BLACK OXIDE Item No.	ZINC PLATED Item No.
¼"-20 Thread Size					
¾"	0.969 in	5⁄64 in	50	**41UJ16**	**41UJ43**
1"			50	**41UJ17**	**41UJ44**
1¼"			50	**41UJ18**	**41UJ45**
1½"			50	**41UJ19**	**41UJ46**
1¾"			50	**41UJ20**	**41UJ47**
2"			50	**41UJ21**	**41UJ48**
2¼"			50	**41UJ22**	—
2½"			50	**41UJ23**	**41UJ49**
3"			50	**41UJ25**	**41UJ50**
5⁄16"-18 Thread Size					
¾"	1.188 in	3⁄32 in	25	**41UJ26**	**41UJ51**
1"			25	**41UJ27**	**41UJ52**
1¼"			25	**41UJ28**	**41UJ53**
1½"			25	**41UJ29**	**41UJ54**
1¾"			25	**41UJ30**	**41UJ55**
2"			25	**41UJ31**	**41UJ56**
2½"			25	**41UJ33**	**41UJ57**
3"			25	**41UJ35**	**41UJ58**
⅜"-16 Thread Size					
1"	1.312 in	⅛ in	10	**41UJ36**	**41UJ59**
1¼"			10	**41UJ37**	**41UJ60**
1½"			10	**41UJ38**	**41UJ61**
1¾"			10	**41UJ39**	**41UJ62**
2"			10	**41UJ40**	**41UJ63**
2½"			10	**41UJ41**	**41UJ64**
3"			10	**41UJ42**	**41UJ65**

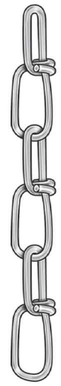
Steel Chain

- Length: 100 ft.

Single-loop jack chain is kink-resistant and is for lightweight applications. Double-loop chain is intended for higher-strength applications.



Single Loop Jack Chain



Double Loop Chain

Trade Size	Finish	Working Load Limit	Item No.
Single Loop Chain			
304 Stainless Steel			
10	Plain	43 lb	**2ZDH2**
12		29 lb	**2ZDH1**
14		16 lb	**2ZDG9**
16		10 lb	**2ZDG8**
18		5 lb	**2ZDG7**
Brass			
10	Plain	34 lb	**2ZDG6**
14		11 lb	**2ZDG4**
16		8 lb	**2ZDG3**
Steel			
10	Zinc	43 lb	**2ZDE8**
	Nickel	43 lb	**2ZDF5**
	Brass	43 lb	**2ZDG2**
12	Zinc	29 lb	**2ZDJ9**
	Nickel	29 lb	**2ZDF4**
14	Zinc	16 lb	**2ZDE7**
	Nickel	16 lb	**2ZDF3**
16	Zinc	10 lb	**2ZDE6**
	Nickel	10 lb	**2ZDF2**
	Brass	10 lb	**2ZDF8**
18	Zinc	5 lb	**2ZDE5**
	Nickel	5 lb	**2ZDF1**
	Brass	5 lb	**2ZDF7**
20	Nickel	3 lb	**2ZDE9**
	Brass	3 lb	**2ZDF6**
Double Loop Chain			
304 Stainless Steel			
1	Plain	155 lb	**2ZDJ7**
02/0		255 lb	**2ZDJ8**
3		100 lb	**2ZDJ6**
Steel			
1	Zinc	155 lb	**2ZDH6**
1/0	Galvanized	200 lb	**2ZDJ3**
2	Zinc	115 lb	**2ZDH5**
02/0		255 lb	**2ZDH7**
	Galvanized	255 lb	**2ZDJ4**
3	Zinc	90 lb	**2ZDK1**
	Galvanized	90 lb	**2ZDJ2**
3/0	Zinc	305 lb	**2ZDH8**
4		70 lb	**2ZDH4**
	Galvanized	70 lb	**2ZDJ1**
4/0	Zinc	365 lb	**2ZDH9**
5		55 lb	**2ZDH3**

Earnest
Intentionally Better

Flat Head
19N043

Truss Head
19N047

Pan Head
19N059

Grade 8 Camrail Bolts and Nuts

- Tensile strength: 150,000 psi
- Bolts are alloy steel
- Flange nuts are steel

Designed specifically for maintenance and repair use in locomotive applications.

Dome Head
19N070

Camrail Flange Lock Nut
19N049

AudiTORX Drive
19N074

Thread Size	Length	Drive System	Head Style	Bulk Package Item No.	Bulk Package Pkg. Qty.	Standard Package Item No.	Standard Package Pkg. Qty.
Camrail Bolt							
⅝"-11	3¼"	Audi Torx (E-20)	Dome	**19N114**	100	—	—
¾"-10	2⅜"	Audi Torx (E-20)	Flat	**19N091**	120	**19N050**	10
	2⅝"	Audi Torx (E-20)	Flat	**19N084**	100	**19N043**	10
		Torx (TX-70)	Flat	**19N085**	110	—	—
	2¾"	Audi Torx (E-20)	Truss	—	—	**19N047**	10
	3"	Torx (TX-70)	Flat	**19N081**	60	**19N040**	5
	3¼"	Audi Torx (E-20)	Flat	—	—	**19N046**	10
	3¾"	Audi Torx (E-20)	Flat	**19N086**	80	**19N045**	10
⅞"-9	3"	Audi Torx (E-20)	Pan	—	—	**19N059**	5
	3¼"	Audi Torx (E-20)	Dome	**19N112**	60	**19N070**	5
	3½"	Audi Torx (E-20)	Flat	**19N096**	60	—	—
		Audi Torx (E-20)	Pan	—	—	**19N058**	5
		Torx (TX-90)	Flat	—	—	**19N055**	5
	4"	Audi Torx (E-20)	Flat	**19N095**	60	**19N054**	5
		Audi Torx (E-20)	Pan	**19N098**	45	**19N057**	5
	4½"	Audi Torx (E-20)	Pan	**19N097**	40	—	—
Camrail Flange Lock Nut							
¾"-10	—	Torx	Flange	**19N090**	300	**19N049**	20
⅞"-9		Torx	Flange	**19N103**	200	**19N061**	20

For Use With	Item No.
Camrail Tooling	
¾ in Square Drive	
Bolts having E-20 AudiTORX Drive	**19N074**

Earnest
Intentionally Better

19T348

Grade 5 Steel Una Drive Bolts

- Tensile strength: 120,000 psi
- Bolts have phosphate and oil finish
- Nuts have zinc/wax finish

Internal hex socket drive in the threaded end holds the bolt steady while tightening and securing nuts. Button head design helps prevent tampering, and distributes the load over a large area for added joint strength. Phosphate and oil finish prevents rust in wet environments. Designed specifically for maintenance and repair use in locomotive applications.

Thread Size	Length	Minimum Thread Length	Drive Size	Item No.	Pkg. Qty.
Una Drive Bolt					
⅝"-11	1 ½ in	1 ½ in	5⁄16 in	**19T356**	225
¾"-10	2 ½ in	1 ¾ in	⅜ in	**19T348**	10
⅞"-9	2 ½ in	2 in	⅜ in	**19T350**	5
	3 in	2 in	⅜ in	**19T351**	5
	3 ½ in	2 in	⅜ in	**19T352**	5
Una Drive Nut					
⅝"-11	—	—	—	**19T353**	50
¾"-10	—	—	—	**19T354**	20

Includes 2 nuts

Standard Round Bend U-Bolts

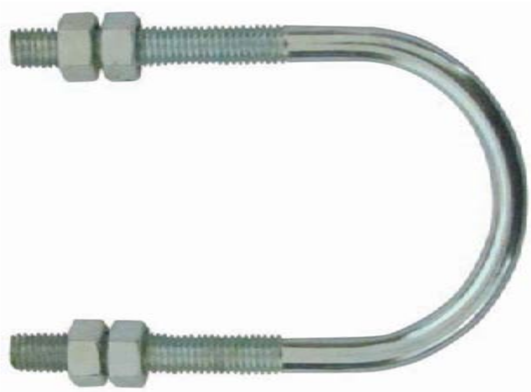
Use to attach pipes or round steel bars to wood or steel posts. Also used to hang pipe from walls or ceilings or may be embedded in concrete as anchor bolts.

Note: Additional sizes and finishes are available on Grainger.com®; search for "u-bolts" and use the filters on the left side of the page.

U-Bolt Plate

W	L	H	A	B	C	Thickness	Pkg. Qty.	Steel Item No.	304 Stainless Steel Item No.
U-Bolt Mounting Plate									
0.75	2.063	0.687	0.313	0.312	0.187	1 5/16"	10	**31KF15**	—
0.75	2.5	0.687	0.781	0.312	0.187	25/32"	10	**31KF16**	**31KF25**
0.75	3.188	0.687	1.375	0.312	0.187	1⅜"	10	**31KF17**	**31KF26**
0.75	3.75	0.687	0.875	0.375	0.219	1 27/32"	10	**31KF18**	**31KF27**
0.75	2.75	0.687	1.375	0.375	0.219	⅞"	10	**31KF19**	—
0.75	3.188	0.687	2.875	0.375	0.219	1⅜"	10	**31KF20**	**31KF29**
0.75	4.75	0.687	2.875	0.375	0.219	2 27/32"	10	**31KF21**	**31KF30**
0.75	2.063	0.687	0.313	0.312	0.187	5/16"	10	—	**31KF24**
0.75	2.75	0.687	1.375	0.375	0.219	27/32"	10	—	**31KF28**
1	5.5	0.937	2.875	0.562	0.312	2 27/32"	5	**31KF22**	—
1	6.188	0.937	3.875	0.562	0.312	6 3/16"	5	**31KF23**	**31KF32**
1	5.5	0.937	2.875	0.562	0.312	5½"	5	—	**31KF31**

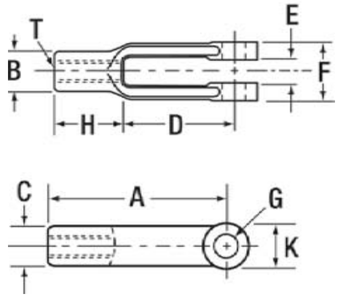
Thread Size	Thread Length	Inside Length	Finish	Includes	Item No.	Pkg. Qty.
304 Stainless Steel						
¼ in Pipe Size, 9/16" Inside Width						
¼"-20	¾"	1¼"	Plain	2 Nuts/Plate	**5YY10**	10
	¾"	1¼"	Plain	2 Nuts	**5YU69**	10
⅜ in Pipe Size, ¾" Inside Width						
¼"-20	⅝"	1¼"	Plain	2 Nuts	**3XRZ7**	10
	1½"	2¼"	Plain	2 Nuts/Plate	**3XTJ6**	10
	1½"	2¼"	Plain	2 Nuts	**3XRZ8**	10
½ in Pipe Size, 1" Inside Width						
¼"-20	1"	1¾"	Plain	2 Nuts	**3XRZ9**	10
5/16"-18	1⅜"	2 3/16"	Plain	2 Nuts	**5YU78**	10
⅜"-16	1¼"	2¼"	Plain	2 Nuts	**3XTA6**	10
¾ in Pipe Size, 1⅛" Inside Width						
¼"-20	1"	2"	Plain	2 Nuts	**3XTA1**	10
	1½"	3⅛"	Plain	2 Nuts	**31KF97**	1
¾ in Pipe Size, 1¼" Inside Width						
¼"-20	1¼"	2¼"	Plain	2 Nuts/Plate	**5YY15**	10
	1¼"	2¼"	Plain	2 Nuts	**31KM01**	1
⅜"-16	1¼"	2¼"	Plain	2 Nuts	**5YU86**	10
1 in Pipe Size, 1⅜" Inside Width						
5/16"-18	1"	2 3/16"	Plain	2 Nuts	**3XTA2**	10
	2"	3⅝"	Plain	2 Nuts	**31KF98**	1
1 in Pipe Size, 1½" Inside Width						
¼"-20	1⅜"	2¾"	Plain	2 Nuts	**31KM02**	1
5/16"-18	1"	2 3/16"	Plain	2 Nuts	**5YU80**	10
⅜"-16	1¼"	2½"	Plain	2 Nuts/Plate	**5YY28**	10
	1¼"	2½"	Plain	2 Nuts	**3XTA7**	10
1 ¼ in Pipe Size, 1¾" Inside Width						
¼"-20	1⅜"	3"	Plain	2 Nuts	**31KM03**	1
5/16"-18	1⅛"	2 11/16"	Plain	2 Nuts	**31KM05**	1
⅜"-16	1⅛"	2¾"	Plain	2 Nuts/Plate	**5YY29**	10
	1⅛"	2¾"	Plain	2 Nuts	**5YU88**	10
1 ½ in Pipe Size, 2" Inside Width						
¼"-20	1⅜"	3¼"	Plain	2 Nuts	**31KM04**	1
5/16"-18	1"	2 11/16"	Plain	2 Nuts/Plate	**5YY23**	10
	1"	2 11/16"	Plain	2 Nuts	**31KM06**	1
	3"	4¾"	Plain	2 Nuts	**31KF99**	1
⅜"-16	1¼"	2⅝"	Plain	2 Nuts	**5YU89**	10
2 in Pipe Size, 2½" Inside Width						
5/16"-18	1"	3 3/16"	Plain	2 Nuts	**31KM07**	1
	3"	5⅝"	Plain	2 Nuts	**31KG01**	1
⅜"-16	1¼"	3⅛"	Plain	2 Nuts	**5YU90**	10
2 ½ in Pipe Size, 3" Inside Width						
5/16"-18	1"	3 11/16"	Plain	2 Nuts/Plate	**5YY25**	10
	1"	3 11/16"	Plain	2 Nuts	**31KM08**	1
⅜"-16	1¼"	3⅝"	Plain	2 Nuts/Plate	**5YY32**	10
	1¼"	3⅝"	Plain	2 Nuts	**5YU91**	10
½"-13	1⅝"	4½"	Plain	2 Nuts	**5YU93**	1
3 in Pipe Size, 3½" Inside Width						
⅜"-16	1¼"	4⅛"	Plain	2 Nuts	**5YU92**	10
½"-13	1½"	5"	Plain	2 Nuts	**5YU94**	1
3 ½ in Pipe Size, 4" Inside Width						
½"-13	1½"	5½"	Plain	2 Nuts	**5YU95**	1
4 in Pipe Size, 4½" Inside Width						
½"-13	1½"	6"	Plain	2 Nuts/Plate	**5YY37**	1
	1½"	6"	Plain	2 Nuts	**5YU96**	1
5 in Pipe Size, 5⅝" Inside Width						
½"-13	2"	7¼"	Plain	2 Nuts	**5YU97**	1
6 in Pipe Size, 6¾" Inside Width						
½"-13	2"	8⅜"	Plain	2 Nuts	**5YU98**	1
8 in Pipe Size, 8¾" Inside Width						
½"-13	2"	10⅜"	Plain	2 Nuts	**5YU99**	1
Steel						
¼ in Pipe Size, 9/16" Inside Width						
¼"-20	¾"	1¼"	GALV	2 Nuts	**31KF54**	10
	¾"	1¼"	Zinc Plated	2 Nuts	**32TG94**	10
⅜ in Pipe Size, ¾" Inside Width						
¼"-20	⅝"	1¼"	GALV	2 Nuts	**31KF55**	10
	⅝"	1¼"	Zinc Plated	2 Nuts	**32TG95**	10
	⅝"	1¼"	Oxide	2 Nuts	**32TH50**	10
	1½"	2¼"	GALV	2 Nuts	**31KF56**	10
	1½"	2¼"	Zinc Plated	2 Nuts	**32TG96**	10
	1½"	2¼"	Oxide	2 Nuts	**32TH51**	10
½ in Pipe Size, ⅞" Inside Width						
¼"-20	2½"	2 15/16"	Plain	4 Nuts	**32TH31**	5
	2½"	2 15/16"	GALV	4 Nuts	**31KF33**	1
	2½"	2 15/16"	Zinc Plated	4 Nuts	**32TG74**	5
½ in Pipe Size, 15/16" Inside Width						
⅜"-16	2⅜"	3"	Plain	4 Nuts	**32TH34**	5
	2⅜"	3"	GALV	4 Nuts	**31KF34**	1
	2⅜"	3"	Zinc Plated	4 Nuts	**32TG77**	5
½ in Pipe Size, 1" Inside Width						
¼"-20	¾"	1¾"	Zinc Plated	2 Nuts	**3ZHA5**	10
	1"	1¾"	GALV	2 Nuts	**31KF57**	10
	1"	1¾"	Zinc Plated	2 Nuts	**32TG97**	10
	1"	1¾"	Oxide	2 Nuts	**32TH52**	10
	1¼"	3¾"	GALV	2 Nuts	**31KF58**	10
5/16"-18	1⅜"	2 3/16"	Zinc Plated	2 Nuts	**32TH05**	10
	1⅜"	2 3/16"	Oxide	2 Nuts	**32TH57**	10
⅜"-16	1¼"	2¼"	GALV	2 Nuts	**31KF76**	10
	1¼"	2¼"	Zinc Plated	2 Nuts	**32TH16**	10
	1¼"	2¼"	Oxide	2 Nuts	**32TH64**	10
¾ in Pipe Size, 1⅛" Inside Width						
¼"-20	1"	2"	GALV	2 Nuts	**31KF59**	10
	1"	2"	Zinc Plated	2 Nuts	**32TG98**	10
	1"	2"	Oxide	2 Nuts	**32TH53**	10
	1½"	3⅛"	GALV	2 Nuts	**31KF60**	10
	2½"	3 3/16"	Plain	4 Nuts	**32TH32**	5
	2½"	3 3/16"	Zinc Plated	4 Nuts	**32TG75**	5
5/16"-18	1"	2 3/16"	GALV	2 Nuts	**31KF65**	10
⅜"-16	2⅜"	3 5/16"	Plain	4 Nuts	**32TH35**	5
	2⅜"	3 5/16"	Zinc Plated	4 Nuts	**32TG78**	5
¾ in Pipe Size, 1¼" Inside Width						
¼"-20	1¼"	2¼"	GALV	2 Nuts	**31KF61**	10
	1¼"	2¼"	Zinc Plated	2 Nuts	**32TG99**	10
⅜"-16	1¼"	2¼"	GALV	2 Nuts	**31KF77**	10
	1¼"	2¼"	Zinc Plated	2 Nuts	**32TH17**	10
	1¼"	2¼"	Oxide	2 Nuts	**32TH65**	10
1 in Pipe Size, 1⅜" Inside Width						
¼"-20	2⅜"	4"	Zinc Plated	2 Nuts	**32TH02**	1
	2½"	3 7/16"	Plain	4 Nuts	**32TH33**	5
	2½"	3 7/16"	Zinc Plated	4 Nuts	**32TG76**	5
5/16"-18	1"	2 3/16"	GALV	2 Nuts	**31KF67**	10
	1"	2 3/16"	Zinc Plated	2 Nuts	**32TH07**	10
	2"	3⅝"	GALV	2 Nuts	**31KF68**	10
	2"	3⅝"	Zinc Plated	2 Nuts	**32TH08**	1
⅜"-16	2⅜"	3 7/16"	GALV	4 Nuts	**31KF35**	1
	2⅜"	3 7/16"	Zinc Plated	4 Nuts	**32TG79**	5
1 in Pipe Size, 1½" Inside Width						
¼"-20	1⅜"	2¾"	GALV	2 Nuts	**31KF62**	10
	1⅜"	2¾"	Zinc Plated	2 Nuts	**32TH01**	10
	1⅜"	2¾"	Oxide	2 Nuts	**32TH54**	10
5/16"-18	1"	2 3/16"	Zinc Plated	2 Nuts/Plate	**5YU60**	10
	1"	2 3/16"	GALV	2 Nuts	**31KF66**	10
	1"	2 3/16"	Zinc Plated	2 Nuts	**32TH06**	10
	1"	2 3/16"	Oxide	2 Nuts	**32TH58**	10
⅜"-16	1¼"	2½"	Zinc Plated	2 Nuts/Plate	**4P827**	10
	1¼"	2½"	GALV	2 Nuts	**31KF78**	10
	1¼"	2½"	Zinc Plated	2 Nuts	**32TH18**	10
	1¼"	2½"	Oxide	2 Nuts	**32TH66**	10
1 ¼ in Pipe Size, 1 11/16" Inside Width						
⅜"-16	2⅜"	3 23/32"	GALV	4 Nuts	**31KF36**	1
	2⅜"	3 23/32"	Zinc Plated	4 Nuts	**32TG80**	5
1 ¼ in Pipe Size, 1¾" Inside Width						
¼"-20	1⅜"	3"	GALV	2 Nuts	**31KF63**	10
	1⅜"	3"	Zinc Plated	2 Nuts	**32TH03**	1
	1⅜"	3"	Oxide	2 Nuts	**32TH55**	1
5/16"-18	1⅛"	2 11/16"	Zinc Plated	2 Nuts/Plate	**4P823**	10
	1⅛"	2 11/16"	GALV	2 Nuts	**31KF69**	10
	1⅛"	2 11/16"	Zinc Plated	2 Nuts	**32TH09**	1
	1⅛"	2 11/16"	Oxide	2 Nuts	**32TH60**	1
	2"	4½"	GALV	2 Nuts	**31KF70**	10
	2"	4½"	Zinc Plated	2 Nuts	**32TH10**	1
⅜"-16	1⅛"	2¾"	GALV	2 Nuts	**31KF79**	10
	1⅛"	2¾"	Zinc Plated	2 Nuts	**32TH19**	10
	1⅛"	2¾"	Oxide	2 Nuts	**32TH67**	10
1 ½ in Pipe Size, 2" Inside Width						
¼"-20	1⅜"	3¼"	GALV	2 Nuts	**31KF64**	10
	1⅜"	3¼"	Zinc Plated	2 Nuts	**32TH04**	1
	1⅜"	3¼"	Oxide	2 Nuts	**32TH56**	1
5/16"-18	1"	2 11/16"	GALV	2 Nuts	**31KF71**	10
	1"	2 11/16"	Zinc Plated	2 Nuts	**32TH11**	1
	1"	2 11/16"	Oxide	2 Nuts	**32TH61**	1
	3"	4¾"	GALV	2 Nuts	**31KF72**	10
	3"	4¾"	Zinc Plated	2 Nuts	**32TH12**	1
⅜"-16	1¼"	2⅝"	GALV	2 Nuts	**31KF80**	10
	1¼"	2⅝"	Zinc Plated	2 Nuts	**32TH20**	10
	1¼"	2⅝"	Oxide	2 Nuts	**32TH68**	10
	2½"	4"	GALV	4 Nuts	**31KF37**	1
	2½"	4"	Zinc Plated	4 Nuts	**32TG81**	5
2 in Pipe Size, 2 7/16" Inside Width						
⅜"-16	2½"	4 7/16"	GALV	4 Nuts	**31KF38**	1
	2½"	4 7/16"	Zinc Plated	4 Nuts	**32TG82**	5
2 in Pipe Size, 2½" Inside Width						
5/16"-18	1"	3 3/16"	GALV	2 Nuts	**31KF73**	10
	1"	3 3/16"	Zinc Plated	2 Nuts	**32TH13**	1
	1"	3 3/16"	Oxide	2 Nuts	**32TH62**	1
	3"	5⅝"	GALV	2 Nuts	**31KF74**	10
	3"	5⅝"	Zinc Plated	2 Nuts	**32TH14**	1
⅜"-16	1¼"	3⅛"	GALV	2 Nuts	**31KF81**	10
	1¼"	3⅛"	Zinc Plated	2 Nuts	**32TH21**	10
	1¼"	3⅛"	Oxide	2 Nuts	**32TH69**	10
2 ½ in Pipe Size, 2 15/16" Inside Width						
½"-13	3"	5 7/32"	GALV	4 Nuts	**31KF39**	1
	3"	5 7/32"	Zinc Plated	4 Nuts	**32TG83**	5
2 ½ in Pipe Size, 3" Inside Width						
5/16"-18	1"	3 11/16"	GALV	2 Nuts	**31KF75**	10
	1"	3 11/16"	Zinc Plated	2 Nuts	**32TH15**	1
	1"	3 11/16"	Oxide	2 Nuts	**32TH63**	1
⅜"-16	1¼"	3⅝"	GALV	2 Nuts	**31KF82**	10
	1¼"	3⅝"	Zinc Plated	2 Nuts	**32TH22**	1
	1¼"	3⅝"	Oxide	2 Nuts	**32TH70**	1
	3"	6⅝"	GALV	2 Nuts	**31KF83**	10
½"-13	1⅝"	4½"	GALV	2 Nuts	**31KF85**	5
	1⅝"	4½"	Zinc Plated	2 Nuts	**32TH24**	1
	1⅝"	4½"	Oxide	2 Nuts	**32TH72**	1
3 in Pipe Size, 3½" Inside Width						
⅜"-16	1¼"	4⅛"	Zinc Plated	2 Nuts/Plate	**5YU64**	10
	1¼"	4⅛"	GALV	2 Nuts	**31KF84**	10
	1¼"	4⅛"	Zinc Plated	2 Nuts	**32TH23**	1
	1¼"	4⅛"	Oxide	2 Nuts	**32TH71**	1
½"-13	1½"	5"	GALV	2 Nuts	**31KF86**	5
	1½"	5"	Zinc Plated	2 Nuts	**32TH25**	1
	1½"	5"	Oxide	2 Nuts	**32TH73**	1
	3"	8½"	GALV	2 Nuts	**31KF87**	5
3 in Pipe Size, 3 9/16" Inside Width						
½"-13	3"	5¾"	GALV	4 Nuts	**31KF40**	1
	3"	5¾"	Zinc Plated	4 Nuts	**32TG84**	5
3 ½ in Pipe Size, 4" Inside Width						
½"-13	1½"	5½"	GALV	2 Nuts	**31KF88**	5
	1½"	5½"	Zinc Plated	2 Nuts	**32TH26**	1
	1½"	5½"	Oxide	2 Nuts	**32TH74**	1
3 ½ in Pipe Size, 4 1/16" Inside Width						
½"-13	3"	6¼"	GALV	4 Nuts	**31KF41**	1
	3"	6¼"	Zinc Plated	4 Nuts	**32TG85**	5
4 in Pipe Size, 4½" Inside Width						
½"-13	1½"	6"	GALV	4 Nuts	**31KF89**	5
	1½"	6"	Zinc Plated	2 Nuts	**32TH27**	1
	1½"	6"	Oxide	2 Nuts	**32TH75**	1
4 in Pipe Size, 4 9/16" Inside Width						
½"-13	3"	6¾"	GALV	4 Nuts	**31KF42**	1
	3"	6¾"	Zinc Plated	4 Nuts	**32TG86**	5
5 in Pipe Size, 5⅝" Inside Width						
½"-13	2"	7¼"	GALV	2 Nuts	**31KF90**	5
	2"	7¼"	Zinc Plated	2 Nuts	**32TH28**	1
	2"	7¼"	Oxide	2 Nuts	**32TH76**	1
	3"	7 13/16"	GALV	4 Nuts	**31KF43**	1
	3"	7 13/16"	Zinc Plated	4 Nuts	**32TG87**	5
6 in Pipe Size, 6¾" Inside Width						
½"-13	2"	8⅜"	GALV	2 Nuts	**31KF91**	5
	2"	8⅜"	Zinc Plated	2 Nuts	**32TH29**	1
	2"	8⅜"	Oxide	2 Nuts	**32TH77**	1
⅝"-11	3¾"	9½"	GALV	4 Nuts	**31KF44**	1
	3¾"	9½"	Zinc Plated	4 Nuts	**32TG88**	1
8 in Pipe Size, 8¾" Inside Width						
½"-13	2"	10⅜"	GALV	2 Nuts	**31KF92**	5
	2"	10⅜"	Zinc Plated	2 Nuts	**32TH30**	1
	2"	10⅜"	Oxide	2 Nuts	**32TH78**	1
⅝"-11	3¾"	11⅛"	GALV	4 Nuts	**31KF45**	1
	3¾"	11⅛"	Zinc Plated	4 Nuts	**32TG89**	1
10 in Pipe Size, 10⅞" Inside Width						
¾"-10	4"	13 13/16"	Zinc Plated	4 Nuts	**32TG90**	1
12 in Pipe Size, 12⅞" Inside Width						
⅞"-9	4¼"	16 1/16"	Zinc Plated	4 Nuts	**32TG91**	1



Extended-Length U-Bolts

- Include 4 nuts

Thread Size	Thread Length	Inside Length	Finish	Item No.	Pkg. Qty.
304 Stainless Steel					
½ in Pipe Size, ⅞" Inside Width					
¼"-20	2½"	2 15/16"	Plain	**5ZA76**	1
½ in Pipe Size, 15/16" Inside Width					
⅜"-16	2⅜"	3"	Plain	**5ZA82**	1
¾ in Pipe Size, 1⅛" Inside Width					
¼"-20	2½"	3 3/16"	Plain	**5ZA78**	1
⅜"-16	2⅜"	3 5/16"	Plain	**5ZA84**	1
1 in Pipe Size, 1⅜" Inside Width					
¼"-20	2½"	3 7/16"	Plain	**5ZA80**	1
⅜"-16	2⅜"	3 7/16"	Plain	**5ZA86**	1
1 ¼ in Pipe Size, 1 11/16" Inside Width					
⅜"-16	2⅜"	3 23/32"	Plain	**5ZA88**	1
1 ½ in Pipe Size, 2" Inside Width					
⅜"-16	2½"	4"	Plain	**5ZA90**	1
2 in Pipe Size, 2 7/16" Inside Width					
⅜"-16	2½"	4 7/16"	Plain	**5ZA92**	1
2 ½ in Pipe Size, 2 15/16" Inside Width					
½"-13	3"	5 7/32"	Plain	**5ZA94**	1
3 in Pipe Size, 3 9/16" Inside Width					
½"-13	3"	5¾"	Plain	**5ZA96**	1
4 in Pipe Size, 4 9/16" Inside Width					
½"-13	3"	6¾"	Plain	**5ZB10**	1
5 in Pipe Size, 5⅝" Inside Width					
½"-13	3"	7 13/16"	Plain	**5ZB12**	1
6 in Pipe Size, 6¾" Inside Width					
⅝"-11	3¾"	9½"	Plain	**5ZB14**	1
8 in Pipe Size, 8¾" Inside Width					
⅝"-11	3¾"	11⅛"	Plain	**5ZB16**	1
10 in Pipe Size, 10⅞" Inside Width					
¾"-10	4"	13 13/16"	Plain	**5ZB18**	1
12 in Pipe Size, 12⅞" Inside Width					
⅞"-9	4¼"	16 1/16"	Plain	**5ZB20**	1
14 in Pipe Size, 14⅛" Inside Width					
⅞"-9	4¼"	17 5/16"	Plain	**5ZB22**	1
Steel					
½ in Pipe Size, ⅞" Inside Width					
¼"-20	2½"	2 15/16"	Plain	**5YY86**	5
	2½"	2 15/16"	Zinc Plated	**5ZA36**	5
	2½"	2 15/16"	GALV	**31KF33**	1
	2½"	2 15/16"	Zinc Plated	**32TG74**	5
½ in Pipe Size, 15/16" Inside Width					
⅜"-16	2⅜"	3"	GALV	**31KF34**	1
	2⅜"	3"	Zinc Plated	**32TG77**	5
¾ in Pipe Size, 1⅛" Inside Width					
¼"-20	2½"	3 3/16"	Plain	**5YY88**	5
	2½"	3 3/16"	Zinc Plated	**32TG75**	5
⅜"-16	2⅜"	3 5/16"	Zinc Plated	**32TG78**	5
	2⅜"	3 5/16"	Plain	**32TH35**	5
1 in Pipe Size, 1⅜" Inside Width					
¼"-20	2½"	3 7/16"	Plain	**5YY90**	5
	2½"	3 7/16"	Zinc Plated	**32TG76**	5
⅜"-16	2⅜"	3 7/16"	Zinc Plated	**5ZA46**	5
	2⅜"	3 7/16"	GALV	**31KF35**	1
	2⅜"	3 7/16"	Zinc Plated	**32TG79**	5
	2⅜"	3 7/16"	Plain	**32TH36**	5
1 ¼ in Pipe Size, 1 11/16" Inside Width					
⅜"-16	2⅜"	3 23/32"	GALV	**31KF36**	1
	2⅜"	3 23/32"	Zinc Plated	**32TG80**	5
	2⅜"	3 23/32"	Plain	**32TH37**	5
1 ½ in Pipe Size, 2" Inside Width					
⅜"-16	2½"	4"	GALV	**31KF37**	1
	2½"	4"	Zinc Plated	**32TG81**	5
	2½"	4"	Plain	**32TH38**	5
2 in Pipe Size, 2 7/16" Inside Width					
⅜"-16	2½"	4 7/16"	GALV	**31KF38**	1
	2½"	4 7/16"	Zinc Plated	**32TG82**	5
	2½"	4 7/16"	Plain	**32TH39**	5
2 ½ in Pipe Size, 2 15/16" Inside Width					
½"-13	3"	5 7/32"	GALV	**31KF39**	1
	3"	5 7/32"	Zinc Plated	**32TG83**	5
	3"	5 7/32"	Plain	**32TH40**	5
3 in Pipe Size, 3 9/16" Inside Width					
½"-13	3"	5¾"	GALV	**31KF40**	1
	3"	5¾"	Zinc Plated	**32TG84**	5
	3"	5¾"	Plain	**32TH41**	5
3 ½ in Pipe Size, 4 1/16" Inside Width					
½"-13	3"	6¼"	Zinc Plated	**5ZA58**	5
	3"	6¼"	GALV	**31KF41**	1
	3"	6¼"	Zinc Plated	**32TG85**	5
	3"	6¼"	Plain	**32TH42**	5
4 in Pipe Size, 4 9/16" Inside Width					
½"-13	3"	6¾"	GALV	**31KF42**	1
	3"	6¾"	Zinc Plated	**32TG86**	5
	3"	6¾"	Plain	**32TH43**	5
5 in Pipe Size, 5⅝" Inside Width					
½"-13	3"	7 13/16"	Zinc Plated	**5ZA62**	5
	3"	7 13/16"	GALV	**31KF43**	1
	3"	7 13/16"	Zinc Plated	**32TG87**	5
	3"	7 13/16"	Plain	**32TH44**	5
6 in Pipe Size, 6¾" Inside Width					
⅝"-11	3¾"	9½"	GALV	**31KF44**	1
	3¾"	9½"	Zinc Plated	**32TG88**	1
	3¾"	9½"	Plain	**32TH45**	1
8 in Pipe Size, 8¾" Inside Width					
⅝"-11	3¾"	11⅛"	GALV	**31KF45**	1
	3¾"	11⅛"	Zinc Plated	**32TG89**	1
	3¾"	11⅛"	Plain	**32TH46**	1
10 in Pipe Size, 10⅞" Inside Width					
¾"-10	4"	13 13/16"	Zinc Plated	**32TG90**	1
	4"	13 13/16"	Plain	**32TH47**	1
12 in Pipe Size, 12⅞" Inside Width					
⅞"-9	4¼"	16 1/16"	Zinc Plated	**32TG91**	1
	4¼"	16 1/16"	Plain	**32TH48**	1
14 in Pipe Size, 14⅛" Inside Width					
⅞"-9	4¼"	17 5/16"	Zinc Plated	**32TG92**	1
	4¼"	17 5/16"	Plain	**32TH49**	1
16 in Pipe Size, 16⅛" Inside Width					
⅞"-9	4¼"	19 5/16"	Zinc Plated	**32TG93**	1



Yoke Ends

Constructed from drop-forged steel.

Tap Size	A	B	C	D	E	F	G	H	K	Item No.
¼"-28	2 in	7/16 in	7/16 in	1 ¼ in	9/32 in	⅝ in	¼ in	¾ in	½ in	**4TAE8**
5/16"-24	2 ¼ in	½ in	½ in	1 7/16 in	11/32 in	¾ in	5/16 in	13/16 in	19/32 in	**4TAE9**
⅜"-24	2 ½ in	⅝ in	⅝ in	1 ⅝ in	7/16 in	⅞ in	⅜ in	⅞ in	11/16 in	**4TAF1**
½"-20	3 in	13/16 in	13/16 in	1 ⅞ in	9/16 in	1 ⅛ in	½ in	1 ⅛ in	15/16 in	**4TAF2**
⅝"-18	4 15/16 in	1 1/16 in	1 1/16 in	3 11/16 in	11/16 in	1 ⅜ in	⅝ in	1 ¼ in	1 3/16 in	**4TAF3**
¾"-16	6 1/16 in	1 ¼ in	1 ¼ in	4 9/16 in	13/16 in	1 ⅝ in	¾ in	1 ½ in	1 7/16 in	**4TAF4**

KEN FORGING
Forged Industrial Hardware

Eye Nuts

Loads are based on a safety factor of 5-to-1.

Oval Round

Thread Size	Working Load Limit (lb.)	Overall Height	Thread Length	Eye I.D.	Brand	Item No.
Oval						
316 Stainless Steel Plain						
⅜-16	2700	2 ½ in	⅝ in	1 ¼ in	Ken Forging	**3ZGZ2**
½-13	2700	2 ½ in	⅝ in	1 ¼ in	Ken Forging	**3ZGZ3**
⅝-11	5000	3 in	¾ in	1 ½ in	Ken Forging	**3ZGZ4**
¾-10	5000	3 in	¾ in	1 ½ in	Ken Forging	**3ZGZ5**
Stainless Steel Plain						
¼-20	520	1 11/16 in	⅜ in	¾ in	—	**2G756**
5/16-18	840	1 11/16 in	⅜ in	¾ in	—	**2G758**
Steel Galvanized						
¼-20	520	1 11/16 in	⅜ in	¾ in	—	**2G768**
5/16-18	840	1 11/16 in	⅜ in	¾ in	—	**2G770**
7/16-14	1700	2 ½ in	⅝ in	1 ¼ in	—	**2G774**
Steel Plain						
⅜-16	2700	2 ½ in	⅝ in	1 ¼ in	Ken Forging	**3ZHF3**
½-13	2700	2 ½ in	⅝ in	1 ¼ in	Ken Forging	**3ZHF4**
⅝-11	5000	3 in	¾ in	1 ½ in	Ken Forging	**3ZHF5**
¾-10	5000	3 in	¾ in	1 ½ in	Ken Forging	**3ZHF6**
⅞-9	10,000	5 in	1 in	2 ¼ in	Ken Forging	**3ZGL9**
1-8	10,000	5 in	1 in	2 ¼ in	Ken Forging	**3ZGN1**
⅞-9	14,400	3 31/32 in	1 11/32 in	1 ⅝ in	Ken Forging	**3JWX9**
1-8	18,800	4 27/32 in	1 11/16 in	1 ¾ in	Ken Forging	**3ZGU8**
1¼-7	29,400	6 ⅝ in	2 7/32 in	2 ½ in	Ken Forging	**3ZGU9**
1½-6	35,600	6 ⅝ in	2 7/32 in	2 ½ in	Ken Forging	**3ZGV1**
Round						
A2 Stainless Steel Plain						
M12 x 1.75mm	—	53 mm	11 mm	30 mm	—	**1ZU44**
M10 x 1.50mm	Not Rated	45 mm	10 mm	25 mm	—	**1ZU42**
M16 x 2mm	Not Rated	62 mm	13 mm	35 mm	—	**1ZU46**
Steel Zinc						
M6 x 1mm	154	36 mm	8.5 mm	20 mm	—	**1ZU24**
M8 x 1.25mm	308	36 mm	8.5 mm	20 mm	—	**1ZU26**
M10 x 1.50mm	506	45 mm	10 mm	25 mm	—	**1ZU28**
M12 x 1.75mm	748	53 mm	11 mm	30 mm	—	**1ZU30**
M16 x 2mm	1540	62 mm	13 mm	35 mm	—	**1ZU32**
M20 x 2.50mm	2640	71 mm	16 mm	40 mm	—	**1ZU34**
M30 x 3.50mm	7920	109 mm	25 mm	60 mm	—	**1ZU38**

Square-Bend U-Bolts

- Include 2 washers and 2 nuts

Inside Width	Inside Length	Thread Length	Item No.
304 Stainless Steel Plain			
2 in	3 in	1 ½ in	**5YY62**
	5 in	3 in	**5YY64**
	7 in	3 ¾ in	**5YY66**
4 in	3 in	1 ½ in	**5YY68**
	4 ⅝ in	3 in	**5YY70**
	7 in	3 ¾ in	**5YY72**
6 in	5 in	3 in	**5YY74**
	7 in	3 ¾ in	**5YY76**
	9 in	5 ⅝ in	**5YY78**
8 in	5 in	3 in	**5YY80**
	6 ⅝ in	3 ¾ in	**5YY82**
	9 in	5 ⅝ in	**5YY84**
Steel Hot Dipped Galvanized			
2 in	2 ⅝ in	1 ½ in	**20W576**
	3 in	1 ½ in	**31KG05**
	4 ⅝ in	3 in	**20W577**
	5 in	3 in	**31KG06**
	6 ⅝ in	3 ¾ in	**20W578**
	7 in	3 ¾ in	**31KG07**
4 in	2 ⅝ in	1 ½ in	**20W579**
	3 in	1 ½ in	**31KG08**
	4 ⅝ in	3 in	**20W580**
	5 in	3 in	**31KG09**
	6 ⅝ in	3 ¾ in	**20W581**
	7 in	3 ¾ in	**31KG10**
6 in	4 ⅝ in	3 in	**20W582**
	5 in	3 in	**31KG11**
	6 ⅝ in	3 ¾ in	**20W583**
	7 in	3 ¾ in	**31KG12**
	8 ⅝ in	5 ⅝ in	**20W584**
	9 in	5 ⅝ in	**31KG13**
Steel Zinc Plated			
2 in	3 in	1 ½ in	**5YY38**
	3 in	1 ½ in	**31KG02**
	4 ⅝ in	3 in	**5YY40**
	5 in	3 in	**31KG03**
	6 ⅝ in	3 ¾ in	**5YY42**
3 in	7 in	3 ¾ in	**31KG04**
4 in	3 in	1 ½ in	**5YY44**
	5 in	3 in	**5YY46**
	7 in	3 ¾ in	**5YY48**
6 in	5 in	3 in	**5YY50**
	7 in	3 ¾ in	**5YY52**
	9 in	5 ⅝ in	**5YY54**
8 in	4 ⅝ in	3 in	**5YY56**
	7 in	3 ¾ in	**5YY58**
	9 in	5 ⅝ in	**5YY60**

KEN FORGING
Forged Industrial Hardware

Machinery Eyebolts

Drop-forged carbon steel is heat-treated after forging. Angular lifts will significantly lower working load limits and should be avoided. Loads are based on a safety factor of 5 to 1.

With Shoulder

Without Shoulder

Thread Size	Working Load Limit	Shank Length	Eye I.D.	Eye O.D.	Finish	Item No.
With Shoulder						
304 Stainless Steel, Ken Forging						
1/4"-20	500 lb	1 in	3/4 in	1 3/16 in	Plain	**19L121**
	500 lb	1 1/2 in	3/4 in	1 3/16 in	Plain	**19L137**
	500 lb	2 in	3/4 in	1 3/16 in	Plain	**19L138**
	500 lb	3 in	3/4 in	1 3/16 in	Plain	**19L139**
	500 lb	4 in	3/4 in	1 3/16 in	Plain	**19L140**
5/16"-18	900 lb	1 1/8 in	7/8 in	1 7/16 in	Plain	**19L122**
	900 lb	1 1/2 in	7/8 in	1 7/16 in	Plain	**19L141**
	900 lb	2 in	7/8 in	1 7/16 in	Plain	**19L142**
	900 lb	3 in	7/8 in	1 7/16 in	Plain	**19L143**
	900 lb	4 in	7/8 in	1 7/16 in	Plain	**19L144**
3/8"-16	1,300 lb	1 1/4 in	1 in	1 21/32 in	Plain	**19L123**
	1,300 lb	2 1/2 in	1 in	1 21/32 in	Plain	**19L145**
	1,300 lb	3 in	1 in	1 21/32 in	Plain	**19L146**
	1,300 lb	4 in	1 in	1 21/32 in	Plain	**19L147**
1/2"-13	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Plain	**19L124**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Plain	**19L148**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Plain	**19L149**
	2,400 lb	4 in	1 3/16 in	2 1/16 in	Plain	**19L150**
5/8"-11	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Plain	**19L125**
	4,000 lb	2 1/2 in	1 3/8 in	2 1/2 in	Plain	**19L151**
	4,000 lb	3 in	1 3/8 in	2 1/2 in	Plain	**19L152**
	4,000 lb	4 in	1 3/8 in	2 1/2 in	Plain	**19L153**
3/4"-10	5,000 lb	2 in	1 1/2 in	2 13/16 in	Plain	**19L126**
	5,000 lb	2 1/2 in	1 1/2 in	2 13/16 in	Plain	**19L154**
	5,000 lb	3 in	1 1/2 in	2 13/16 in	Plain	**19L155**
	5,000 lb	4 in	1 1/2 in	2 13/16 in	Plain	**19L156**
1"-8	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Plain	**19L127**
1 1/4"-7	15,000 lb	3 in	2 3/16 in	4 7/16 in	Plain	**19L128**
316 Stainless Steel, Ken Forging						
1/2"-13	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Plain	**19L163**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Plain	**19L164**
	2,200 lb	3 1/4 in	1 in	2 in	Plain	**19L199**
3/4"-10	5,200 lb	12 in	1 1/2 in	2 13/16 in	Plain	**19L206**
1 1/2"-6	2,000 lb	6 in	2 1/2 in	5 3/16 in	Plain	**19L213**
Steel, Ken Forging						
1/4"-20	500 lb	1 in	3/4 in	1 3/16 in	Plain	**3ZGW8**
	500 lb	4 in	3/4 in	1 3/16 in	Plain	**19L044**
5/16"-18	900 lb	4 in	7/8 in	1 7/16 in	Plain	**19L045**
3/8"-16	1,300 lb	4 in	1 in	1 21/32 in	Plain	**19L046**
	1,300 lb	6 in	1 in	1 21/32 in	Plain	**19L047**
	1,300 lb	4 1/2 in	1 in	1 21/32 in	Zinc Plated	**19L067**
	1,300 lb	1 1/4 in	1 in	1 21/32 in	Galvanized	**19L077**
	1,300 lb	3/4 in	1 in	1 21/32 in	Galvanized	**19L078**
	1,480 lb	1 1/4 in	1 in	1 21/32 in	Plain	**19L106**
7/16"-14	1,800 lb	1 3/8 in	1 3/32 in	1 27/32 in	Zinc Plated	**3ZHD5**
	1,800 lb	6 in	1 3/32 in	1 27/32 in	Plain	**19L048**
1/2"-13	2,400 lb	4 in	1 3/16 in	2 1/16 in	Plain	**19L049**
	2,400 lb	6 in	1 3/16 in	2 1/16 in	Plain	**19L050**
	2,400 lb	4 in	1 3/16 in	2 1/16 in	Zinc Plated	**19L069**
	2,400 lb	4 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**19L071**
	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Galvanized	**19L079**
	2,400 lb	1 in	1 3/16 in	2 1/16 in	Galvanized	**19L080**
	2,700 lb	1 1/2 in	1 3/16 in	2 1/16 in	Plain	**19L107**
9/16"-12	3,000 lb	1 5/8 in	1 9/32 in	2 9/32 in	Plain	**3ZGX8**
	3,000 lb	1 5/8 in	1 9/32 in	2 9/32 in	Zinc Plated	**3ZHD9**
5/8"-11	4,000 lb	4 in	1 3/8 in	2 1/2 in	Plain	**19L051**
	4,000 lb	6 in	1 3/8 in	2 1/2 in	Plain	**19L052**
	4,000 lb	4 in	1 3/8 in	2 1/2 in	Zinc Plated	**19L073**
	4,000 lb	4 1/2 in	1 3/8 in	2 1/2 in	Zinc Plated	**19L075**
	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Galvanized	**19L081**
	4,000 lb	1 1/4 in	1 3/8 in	2 1/2 in	Galvanized	**19L082**
	4,300 lb	1 3/4 in	1 3/8 in	2 1/2 in	Plain	**19L108**
3/4"-10	5,000 lb	4 in	1 1/2 in	2 13/16 in	Plain	**19L053**
	5,000 lb	6 in	1 1/2 in	1 1/2 in	Plain	**19L054**
	5,000 lb	2 in	1 1/2 in	2 13/16 in	Galvanized	**19L083**
	5,000 lb	1 1/2 in	1 1/2 in	2 13/16 in	Galvanized	**19L084**
	6,400 lb	2 in	1 1/2 in	2 13/16 in	Plain	**19L109**
7/8"-9	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Galvanized	**19L085**
	8,800 lb	2 1/4 in	1 11/16 in	3 1/4 in	Plain	**19L110**
1"-8	9,000 lb	6 in	1 13/16 in	3 9/16 in	Plain	**19L055**
	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Galvanized	**19L086**
1 1/8"-7	12,000 lb	2 3/4 in	2 in	4 in	Plain	**3ZGY8**
	12,000 lb	2 3/4 in	2 in	4 in	Zinc Plated	**3ZHE9**
	12,000 lb	2 3/4 in	2 in	4 in	Galvanized	**19L087**
1 1/4"-7	15,000 lb	3 in	2 3/16 in	4 7/16 in	Plain	**3ZGY9**
	15,000 lb	3 in	2 3/16 in	4 7/16 in	Zinc Plated	**3ZHF1**
	15,000 lb	3 in	2 3/16 in	4 7/16 in	Galvanized	**19L088**
1 1/2"-6	21,000 lb	3 1/2 in	2 1/2 in	5 3/16 in	Plain	**3ZGZ1**
	21,000 lb	3 1/2 in	2 1/2 in	5 3/16 in	Zinc Plated	**3ZHF2**
	21,000 lb	3 1/2 in	2 1/2 in	5 3/16 in	Galvanized	**19L089**
1 3/4"-5	28,000 lb	3 3/4 in	2 7/8 in	6 1/16 in	Plain	**3JWP4**
	28,000 lb	3 3/4 in	2 7/8 in	6 1/16 in	Zinc Plated	**19L061**
	28,000 lb	3 3/4 in	2 7/8 in	6 1/16 in	Galvanized	**19L090**
2"-4 1/2	38,000 lb	4 in	3 1/4 in	6 7/8 in	Plain	**3JWP5**
	38,000 lb	4 in	3 1/4 in	6 7/8 in	Galvanized	**19L091**
2 1/2"-4	56,000 lb	5 in	4 in	8 9/16 in	Plain	**3JWP6**
M7-1.00	370 lb	28.5 mm	22 mm	36.5 mm	Plain	**3XTA9**
M14-2.00	1,600 lb	41.1 mm	33 mm	58.0 mm	Plain	**3XTD4**
M24-3.00	3,850 lb	63.5 mm	46 mm	90.4 mm	Plain	**3JWX3**
M30-3.50	6,400 lb	76 mm	55 mm	112.7 mm	Plain	**3XTE1**
M36-4.00	8,970 lb	89 mm	63 mm	131.8 mm	Plain	**3XTE2**
M42-4.50	11,960 lb	95 mm	73 mm	152.4 mm	Plain	**3JWX4**
M45-4.50	12,720 lb	95 mm	73 mm	152.4 mm	Plain	**3JWX5**
M48-5.00	16,400 lb	101.6 mm	82 mm	174.6 mm	Plain	**3JWX6**
M52-5.00	16,400 lb	101.6 mm	82 mm	174.6 mm	Plain	**3JWX7**
M64-6.00	24,458 lb	127 mm	102 mm	217.5 mm	Plain	**3JWX8**
Steel,						
1/4"-20	500 lb	1 in	3/4 in	1 3/16 in	Zinc Plated	**35Z445**
	500 lb	1 in	3/4 in	1 3/16 in	Plain	**35Z446**
5/16"-18	900 lb	1 1/8 in	7/8 in	1 7/16 in	Plain	**35Z449**
	900 lb	1 1/8 in	7/8 in	1 7/16 in	Zinc Plated	**35Z462**
3/8"-16	1,300 lb	1 1/4 in	1 in	1 11/16 in	Plain	**35Z444**
	1,300 lb	3/4 in	1 in	1 11/16 in	Plain	**35Z450**
	1,300 lb	5/8 in	1 in	1 11/16 in	Plain	**35Z452**
	1,300 lb	1 1/4 in	1 in	1 11/16 in	Zinc Plated	**35Z458**
	1,300 lb	2 1/2 in	1 in	1 11/16 in	Zinc Plated	**35Z469**
	1,300 lb	2 1/2 in	1 in	1 11/16 in	Plain	**35Z471**
	1,300 lb	3 in	1 in	1 11/16 in	Plain	**35Z488**
	1,300 lb	3 in	1 in	1 11/16 in	Zinc Plated	**35Z511**
7/16"-14	1,800 lb	1 3/8 in	1 3/32 in	1 27/32 in	Plain	**35Z482**
1/2"-13	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z472**
	2,400 lb	1 in	1 3/16 in	2 1/16 in	Plain	**35Z473**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Plain	**35Z480**
	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Plain	**35Z486**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Plain	**35Z497**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z499**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z502**
5/8"-11	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Plain	**35Z495**
	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Zinc Plated	**35Z506**
	4,000 lb	2 1/2 in	1 3/8 in	2 1/2 in	Zinc Plated	**35Z516**
	4,000 lb	3 in	1 3/8 in	2 1/2 in	Zinc Plated	**35Z517**
	4,000 lb	1 1/4 in	1 3/8 in	2 1/2 in	Plain	**35Z520**
	4,000 lb	3 in	1 3/8 in	2 1/2 in	Plain	**35Z522**
	4,000 lb	2 1/2 in	1 3/8 in	2 1/2 in	Plain	**35Z536**
3/4"-10	5,000 lb	2 in	1 1/2 in	2 13/16 in	Plain	**35Z492**
	5,000 lb	2 in	1 1/2 in	2 13/16 in	Zinc Plated	**35Z515**
	5,000 lb	1 1/2 in	1 1/2 in	2 13/16 in	Plain	**35Z518**
	5,000 lb	3 in	1 1/2 in	2 13/16 in	Plain	**35Z519**
	5,000 lb	1 1/4 in	1 1/2 in	2 13/16 in	Plain	**35Z524**
	5,000 lb	3 in	1 1/2 in	2 13/16 in	Zinc Plated	**35Z528**
	5,000 lb	2 1/2 in	1 1/2 in	2 13/16 in	Plain	**35Z531**
	5,000 lb	2 1/2 in	1 1/2 in	2 13/16 in	Zinc Plated	**35Z555**
7/8"-9	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Plain	**35Z525**
	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Zinc Plated	**35Z538**
1"-8	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Plain	**35Z501**
	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Zinc Plated	**35Z532**
M6-1.00	210 lb	25.7 mm	19 mm	30.0 mm	Plain	**35Z470**
M8-1.25	500 lb	31.7 mm	25 mm	43.0 mm	Plain	**35Z465**
M10-1.50	1,628 lb	35 mm	27 mm	46.0 mm	Plain	**35Z456**
M12-1.75	1,030 lb	38 mm	30 mm	54.0 mm	Plain	**35Z494**
M16-2.00	1,600 lb	44.8 mm	35 mm	65.0 mm	Plain	**35Z510**
M18-2.50	2,140 lb	51.5 mm	38 mm	71.5 mm	Plain	**35Z540**
M20-2.50	2,860 lb	57.5 mm	41 mm	81.0 mm	Plain	**35Z526**
M22-2.50	2,860 lb	63.5 mm	46 mm	90.4 mm	Plain	**35Z554**
M24-3.00	3,850 lb	63.5 mm	46 mm	90.4 mm	Plain	**35Z539**

Thread Size	Working Load Limit	Shank Length	Eye I.D.	Eye O.D.	Finish	Item No.
Without Shoulder						
304 Stainless Steel, Ken Forging						
1/4"-20	500 lb	1 in	3/4 in	1 3/16 in	Plain	**19L129**
5/16"-18	900 lb	1 1/8 in	7/8 in	1 7/16 in	Plain	**19L130**
3/8"-16	1,300 lb	1 1/4 in	1 in	1 21/32 in	Plain	**19L131**
	1,300 lb	3 in	1 in	1 21/32 in	Plain	**19L157**
	1,300 lb	6 in	1 in	1 21/32 in	Plain	**19L158**
1/2"-13	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Plain	**19L132**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Plain	**19L159**
	2,400 lb	6 in	1 3/16 in	2 1/16 in	Plain	**19L160**
5/8"-11	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Plain	**19L133**
3/4"-10	5,000 lb	2 in	1 1/2 in	2 13/16 in	Plain	**19L134**
Steel, Ken Forging						
5/16"-18	900 lb	1 1/8 in	7/8 in	1 7/16 in	Plain	**3XTE6**
	900 lb	1 1/8 in	7/8 in	1 7/16 in	Zinc Plated	**3ZGN9**
3/8"-16	1,300 lb	1 1/4 in	1 in	1 21/32 in	Zinc Plated	**3ZGP1**
	1,300 lb	3 in	1 in	1 21/32 in	Zinc Plated	**3ZGP3**
	1,300 lb	6 in	1 in	1 21/32 in	Plain	**19L056**
	1,300 lb	4 1/2 in	1 in	1 21/32 in	Zinc Plated	**19L068**
	1,300 lb	1 1/4 in	1 in	1 21/32 in	Galvanized	**19L093**
7/16"-14	1,800 lb	1 3/8 in	1 3/32 in	1 27/32 in	Plain	**3XTF1**
	1,800 lb	1 3/8 in	1 3/32 in	1 27/32 in	Zinc Plated	**3ZGP4**
1/2"-13	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**3ZGP5**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**3ZGP6**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Zinc Plated	**3ZGP7**
	2,400 lb	6 in	1 3/16 in	2 1/16 in	Plain	**19L057**
	2,400 lb	4 in	1 3/16 in	2 1/16 in	Zinc Plated	**19L070**
	2,400 lb	4 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**19L072**
	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Galvanized	**19L094**
9/16"-12	3,000 lb	1 5/8 in	1 9/32 in	2 9/32 in	Plain	**3XTF5**
5/8"-11	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Zinc Plated	**3ZGP9**
	4,000 lb	2 1/2 in	1 3/8 in	2 1/2 in	Zinc Plated	**3ZGR1**
	4,000 lb	3 in	1 3/8 in	2 1/2 in	Zinc Plated	**3ZGR2**
	4,000 lb	6 in	1 3/8 in	2 1/2 in	Plain	**19L058**
	4,000 lb	4 in	1 3/8 in	2 1/2 in	Zinc Plated	**19L074**
	4,000 lb	4 1/2 in	1 3/8 in	2 1/2 in	Zinc Plated	**19L076**
	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Galvanized	**19L095**
3/4"-10	5,000 lb	2 in	1 1/2 in	2 13/16 in	Zinc Plated	**3ZGR3**
	5,000 lb	2 1/2 in	1 1/2 in	2 13/16 in	Zinc Plated	**3ZGR4**
	5,000 lb	6 in	1 1/2 in	2 13/16 in	Plain	**19L059**
	5,000 lb	2 in	1 1/2 in	2 13/16 in	Galvanized	**19L096**
	6,400 lb	2 in	1 1/2 in	2 13/16 in	Plain	**19L118**
7/8"-9	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Plain	**3XTG3**
	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Zinc Plated	**3ZGR6**
	7,000 lb	6 in	1 11/16 in	3 1/4 in	Plain	**19L060**
	7,000 lb	2 1/4 in	1 11/16 in	3 1/4 in	Galvanized	**19L097**
1"-8	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Plain	**3XTG4**
	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Zinc Plated	**3ZGR7**
	9,000 lb	2 1/2 in	1 13/16 in	3 9/16 in	Galvanized	**19L098**
1 1/8"-7	12,000 lb	2 3/4 in	2 in	4 in	Plain	**3XTG5**
	12,000 lb	2 3/4 in	2 in	4 in	Galvanized	**19L099**
1 1/4"-7	15,000 lb	3 in	2 3/16 in	4 7/16 in	Plain	**3XTG6**
	15,000 lb	3 in	2 3/16 in	4 7/16 in	Zinc Plated	**3ZGR9**
	15,000 lb	3 in	2 3/16 in	4 7/16 in	Galvanized	**19L101**
1 1/2"-6	21,000 lb	3 1/2 in	2 1/2 in	5 3/16 in	Plain	**3XTG7**
	21,000 lb	3 1/2 in	2 1/2 in	5 3/16 in	Zinc Plated	**3ZGT1**
2"-4 1/2	38,000 lb	4 in	3 1/4 in	6 7/8 in	Galvanized	**19L104**
Steel,						
1/4"-20	500 lb	1 in	3/4 in	1 3/16 in	Oxide	**35Z441**
	500 lb	1 in	3/4 in	1 3/16 in	Zinc Plated	**35Z451**
3/8"-16	—	1 1/4 in	1 in	1 5/8 in	Oxide	**35Z448**
	—	2 1/2 in	1 in	1 11/16 in	Oxide	**35Z453**
	—	3 in	1 in	1 11/16 in	Oxide	**35Z460**
	—	2 1/2 in	1 in	1 11/16 in	Zinc Plated	**35Z481**
	—	3 in	1 in	1 11/16 in	Zinc Plated	**35Z527**
1/2"-13	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Oxide	**35Z466**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Oxide	**35Z468**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Oxide	**35Z485**
	2,400 lb	3 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z490**
	2,400 lb	1 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z491**
	2,400 lb	2 1/2 in	1 3/16 in	2 1/16 in	Zinc Plated	**35Z513**
5/8"-11	4,000 lb	3 in	1 3/8 in	2 1/2 in	Zinc Plated	**35Z483**
	4,000 lb	1 3/4 in	1 3/8 in	2 1/2 in	Oxide	**35Z504**
	4,000 lb	2 1/2 in	1 3/8 in	2 1/2 in	Oxide	**35Z545**
	4,000 lb	3 in	1 3/8 in	2 1/2 in	Oxide	**35Z548**
3/4"-10	5,000 lb	2 in	1 1/2 in	2 13/16 in	Oxide	**35Z484**
	5,000 lb	2 1/2 in	1 1/2 in	2 13/16 in	Plain	**35Z509**
	5,000 lb	3 in	1 1/2 in	2 13/16 in	Oxide	**35Z546**
	5,000 lb	3 in	1 1/2 in	2 13/16 in	Zinc Plated	**35Z562**

Metric Lifting Eyebolts

For vertical lifting only.

Note: Eyebolts must always be tightened flush against bearing surface.

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Item No.	Pkg. Qty.
Steel						
M6-1.00	13 mm	20 mm	36.0 mm	70 lb	**1ZU48**	3
M8-1.25	13 mm	20 mm	36.0 mm	140 lb	**35Z542**	3
M10-1.50	17 mm	25 mm	45.0 mm	230 lb	**35Z552**	3
M12-1.75	20.5 mm	30 mm	54.0 mm	339 lb	**35Z521**	2
M16-2.00	27 mm	35 mm	63.0 mm	1,540 lb	**35Z547**	2
M20-2.50	30 mm	40 mm	72.0 mm	1,197 lb	**35Z505**	1
M24-3.00	36 mm	50 mm	90.0 mm	1,796 lb	**35Z512**	1
M30-3.50	45 mm	60 mm	108.0 mm	7,040 lb	**35Z507**	1
M36-4.00	54 mm	70 mm	126.0 mm	4,600 lb	**35Z498**	1
M42-4.50	63 mm	80 mm	147.0 mm	6,300 lb	**38C901**	1
M48-5.00	68 mm	90 mm	168.0 mm	8,600 lb	**38C902**	1
M64-6.00	90 mm	110 mm	208.0 mm	16,000 lb	**38C903**	1
304 Stainless Steel						
M8-1.25	13 mm	20 mm	36.0 mm	140 lb	**35Z478**	1
M10-1.50	17 mm	25 mm	45.0 mm	506 lb	**1ZU68**	1
M12-1.75	20.5 mm	30 mm	54.0 mm	339 lb	**35Z479**	1
M16-2.00	27 mm	35 mm	63.0 mm	1,540 lb	**1ZU72**	1
M20-2.50	30 mm	40 mm	72.0 mm	2,640 lb	**1ZU74**	1

Turned Wire Eyebolts

Supplied with UNC rolled machine threads and one hex nut.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
304 Stainless Steel							
Plain Finish							
#6-32	1.25 in	⅝ in	¾ in	¼ in	31/64 in	**5ZU60**	10
#8-32	1.69 in	1 in	1 ⅛ in	¼ in	17/32 in	**5ZU61**	10
#10-24	1.69 in	⅞ in	1 in	⅜ in	11/16 in	**5ZU62**	10
	2.0 in	—	1 ⅜ in	5/16 in	11/16 in	**5ZU63**	10
	2.69 in	1 in	2 in	⅜ in	11/16 in	**5ZU64**	10
	3.69 in	1 ½ in	3 in	⅜ in	11/16 in	**5ZU65**	10
¼"-20	2.0 in	⅞ in	1 in	½ in	15/16 in	**5ZU66**	10
	2.5 in	1 ¼ in	1 ½ in	½ in	15/16 in	**5ZU67**	10
	3.0 in	1 ¼ in	2 in	½ in	15/16 in	**5ZU68**	10
	3.5 in	1 ¼ in	2 ½ in	½ in	15/16 in	**5ZU69**	10
	4.0 in	1 ½ in	3 in	½ in	15/16 in	**5ZU70**	10
	5.0 in	2 ½ in	4 in	½ in	15/16 in	**5ZU71**	10
	6.0 in	3 in	5 in	½ in	15/16 in	**5ZU72**	5
	7.0 in	4 in	6 in	½ in	15/16 in	**5ZU73**	5
5/16"-18	2.13 in	⅞ in	1 in	⅝ in	1 11/64 in	**5ZU74**	5
	3.13 in	1 ¼ in	2 in	⅝ in	1 11/64 in	**5ZU75**	5
	4.13 in	1 ½ in	3 in	⅝ in	1 11/64 in	**5ZU76**	5
	5.13 in	2 ½ in	4 in	⅝ in	1 11/64 in	**5ZU77**	5
⅜"-16	2.5 in	⅞ in	1 in	¾ in	1 13/32 in	**5ZU78**	1
	3.5 in	1 ¼ in	2 in	¾ in	1 13/32 in	**5ZU79**	1
	4.0 in	1 ½ in	2 ½ in	¾ in	1 13/32 in	**5ZU80**	1
	4.5 in	1 ½ in	3 in	¾ in	1 13/32 in	**5ZU81**	1
	5.5 in	2 ½ in	4 in	¾ in	1 13/32 in	**5ZU82**	1
	6.5 in	3 in	5 in	¾ in	1 13/32 in	**5ZU83**	1
	7.5 in	3 ¾ in	6 in	¾ in	1 13/32 in	**5ZU84**	1
½"-13	4.0 in	1 ½ in	2 in	1 in	1 ⅞ in	**5ZU85**	1
	6.0 in	2 ½ in	4 in	1 in	1 ⅞ in	**5ZU86**	1
	8.0 in	4 in	6 in	1 in	1 ⅞ in	**5ZU87**	1
⅝"-11	8.31 in	2 ½ in	7 in	¾ in	1 ⅞ in	**5ZU56**	1
¾"-10	9 in	3 in	6 15/16 in	⅞ in	2 ⅜ in	**5ZU57**	1
	11.0 in	3 in	8 15/16 in	⅞ in	2 ⅜ in	**5ZU58**	1
	14.0 in	3 in	11 15/16 in	⅞ in	2 ⅜ in	**5ZU59**	1
Steel							
Black Oxide Finish							
#6-32	1.25 in	⅝ in	¾ in	¼ in	31/64 in	**5ZU22**	10
#8-32	1.69 in	1 in	1 ⅛ in	¼ in	17/32 in	**5ZU23**	10
#10-24	1.69 in	⅞ in	1 in	⅜ in	11/16 in	**5ZU24**	10
	2.0 in	1 ¼ in	1 ⅜ in	5/16 in	11/16 in	**5ZU25**	10
	2.69 in	1 in	2 in	⅜ in	11/16 in	**5ZU26**	10
	3.69 in	1 ½ in	3 in	⅜ in	11/16 in	**5ZU27**	10
¼"-20	2.0 in	⅞ in	1 in	½ in	15/16 in	**5ZU28**	10
	2.5 in	1 ¼ in	1 ½ in	½ in	15/16 in	**5ZU29**	10
	3.0 in	1 ¼ in	2 in	½ in	15/16 in	**5ZU30**	10
	3.5 in	1 ¼ in	2 ½ in	½ in	15/16 in	**5ZU31**	10
	4.0 in	1 ½ in	3 in	½ in	15/16 in	**5ZU32**	10
	5.0 in	2 ½ in	4 in	½ in	15/16 in	**5ZU33**	10
	6.0 in	3 in	5 in	½ in	15/16 in	**5ZU34**	10
	7.0 in	4 in	6 in	½ in	15/16 in	**5ZU35**	10
5/16"-18	2.13 in	⅞ in	1 in	⅝ in	1 11/64 in	**5ZU36**	10
	3.13 in	1 ¼ in	2 in	⅝ in	1 11/64 in	**5ZU37**	10
	4.13 in	1 ½ in	3 in	⅝ in	1 11/64 in	**5ZU38**	10
	5.13 in	2 ½ in	4 in	⅝ in	1 11/64 in	**5ZU39**	10
⅜"-16	2.5 in	⅞ in	1 in	¾ in	1 13/32 in	**5ZU40**	10
	3.5 in	1 ¼ in	2 in	¾ in	1 13/32 in	**5ZU41**	10
	4.0 in	1 ½ in	2 ½ in	¾ in	1 13/32 in	**5ZU42**	10
	4.5 in	1 ½ in	3 in	¾ in	1 13/32 in	**5ZU46**	10
	5.5 in	2 ½ in	4 in	¾ in	1 13/32 in	**5ZU47**	10
	6.5 in	3 in	5 in	¾ in	1 13/32 in	**5ZU48**	10
	7.5 in	3 ¾ in	6 in	¾ in	1 13/32 in	**5ZU49**	10
	8.56 in	2 ½ in	7 ⅜ in	½ in	1 5/32 in	**5ZU43**	1
	10.69 in	2 ½ in	9 ⅜ in	½ in	1 5/32 in	**5ZU44**	1
	12.56 in	2 ½ in	11 ⅜ in	½ in	1 5/32 in	**5ZU45**	1
½"-13	4.0 in	1 ½ in	2 in	1 in	1 ⅞ in	**5ZU50**	1
	6.0 in	2 ½ in	4 in	1 in	1 ⅞ in	**5ZU54**	1
	8.0 in	4 in	6 in	1 in	1 ⅞ in	**5ZU55**	1
	8.81 in	2 ½ in	7 3/16 in	⅝ in	1 33/64 in	**5ZU51**	1
	10.81 in	2 ½ in	9 3/16 in	⅝ in	1 33/64 in	**5ZU52**	1
Zinc Plated Finish							
#6-32	1.25 in	⅝ in	¾ in	¼ in	31/64 in	**5ZE79**	10
#8-32	1.69 in	1 in	1 ⅛ in	¼ in	17/32 in	**5ZE80**	10
#10-24	1.69 in	⅞ in	1 in	⅜ in	11/16 in	**5ZE81**	10
	2.0 in	1 ¼ in	1 ⅜ in	5/16 in	11/16 in	**5ZE82**	10
	2.69 in	1 in	2 in	⅜ in	11/16 in	**5ZE83**	10
	3.69 in	1 ½ in	3 in	⅜ in	11/16 in	**5ZE84**	10
¼"-20	2 ½ in	1 ¼ in	1 ½ in	½ in	15/16 in	**35Z523**	10
	2 in	⅞ in	1 in	½ in	15/16 in	**35Z487**	10
	2.0 in	⅞ in	1 in	½ in	15/16 in	**4P802**	10
	2.5 in	1 ¼ in	1 ½ in	½ in	15/16 in	**5ZE85**	10
	3 in	1 ¼ in	2 in	½ in	15/16 in	**35Z508**	10
	3.0 in	1 ¼ in	2 in	½ in	15/16 in	**4P803**	10
	3.5 in	1 ¼ in	2 ½ in	½ in	15/16 in	**5ZE86**	10
	4 in	1 ½ in	3 in	½ in	15/16 in	**35Z534**	10
	4.0 in	1 ½ in	3 in	½ in	15/16 in	**4P804**	10
	5 in	2 ½ in	4 in	½ in	15/16 in	**35Z544**	10
	5.0 in	2 ½ in	4 in	½ in	15/16 in	**5ZE87**	10
	6 in	3 in	5 in	½ in	15/16 in	**35Z551**	10
	6.0 in	3 in	5 in	½ in	15/16 in	**4P805**	10
	7.0 in	4 in	6 in	½ in	15/16 in	**5ZE88**	10
5/16"-18	2 ⅛ in	⅞ in	1 in	⅝ in	1 11/64 in	**35Z454**	10
	2.13 in	⅞ in	1 in	⅝ in	1 11/64 in	**5ZE89**	10
	3 ⅛ in	1 ¼ in	2 in	⅝ in	1 11/64 in	**35Z530**	10
	3.13 in	1 ¼ in	2 in	⅝ in	1 11/64 in	**5ZE90**	10
	4 ⅛ in	1 ½ in	3 in	⅝ in	1 11/64 in	**35Z549**	10
	4.13 in	1 ½ in	3 in	⅝ in	1 11/64 in	**5ZE91**	10
	5 ⅛ in	2 ½ in	4 in	⅝ in	1 11/64 in	**35Z553**	10
	5.13 in	2 ½ in	4 in	⅝ in	1 11/64 in	**5ZE92**	10
⅜"-16	2 ½ in	⅞ in	1 in	¾ in	1 13/32 in	**35Z514**	10
	2.5 in	⅞ in	1 in	¾ in	1 13/32 in	**5ZE93**	10
	3 ½ in	1 ¼ in	2 in	¾ in	1 13/32 in	**35Z543**	10
	3.5 in	1 ¼ in	2 in	¾ in	1 13/32 in	**4P806**	10
	4 ½ in	1 ½ in	3 in	¾ in	1 13/32 in	**35Z556**	10
	4 in	1 ½ in	2 ½ in	¾ in	1 13/32 in	**35Z529**	10
	4.0 in	1 ½ in	2 ½ in	¾ in	1 13/32 in	**5ZE94**	10
	4.5 in	1 ½ in	3 in	¾ in	1 13/32 in	**5ZE98**	10
	5 ½ in	2 ½ in	4 in	¾ in	1 13/32 in	**35Z559**	10
	5.5 in	2 ½ in	4 in	¾ in	1 13/32 in	**4P807**	10
	6 ½ in	3 in	5 in	¾ in	1 13/32 in	**35Z535**	10
	6.5 in	3 in	5 in	¾ in	1 13/32 in	**5ZU10**	10
	7 ½ in	3 ¾ in	6 in	¾ in	1 13/32 in	**35Z561**	10
	7.5 in	4 in	6 in	¾ in	1 13/32 in	**5ZU11**	10
	8.56 in	2 ½ in	7 ⅜ in	½ in	1 5/32 in	**5ZE95**	1
	10.69 in	2 ½ in	9 ⅜ in	½ in	1 5/32 in	**5ZE96**	1
	12.56 in	2 ½ in	11 ⅜ in	½ in	1 5/32 in	**5ZE97**	1
½"-13	4 in	1 ½ in	2 in	1 in	1 ⅞ in	**35Z560**	10
	4.0 in	1 ½ in	2 in	1 in	1 ⅞ in	**5ZU12**	10
	6 in	2 ½ in	4 in	1 in	1 ⅞ in	**35Z443**	1
	6.0 in	2 ½ in	4 in	1 in	1 ⅞ in	**5ZU16**	1
	8 in	4 in	6 in	1 in	1 ⅞ in	**35Z439**	1
	8.0 in	4 in	6 in	1 in	1 ⅞ in	**5ZU17**	1
	8.81 in	2 ½ in	7 3/16 in	⅝ in	1 33/64 in	**5ZU13**	1
	10.81 in	2 ½ in	9 3/16 in	⅝ in	1 33/64 in	**5ZU14**	1
	12 13/16 in	2 ½ in	11 3/16 in	⅝ in	1 33/64 in	**35Z455**	1
⅝"-11	8.31 in	2 ½ in	7 in	¾ in	1 ⅞ in	**5ZU18**	1
¾"-10	9 in	3 in	6 15/16 in	⅞ in	2 ⅜ in	**5ZU19**	1
	11.0 in	3 in	8 15/16 in	⅞ in	2 ⅜ in	**5ZU20**	1
	14.0 in	3 in	11 15/16 in	⅞ in	2 ⅜ in	**5ZU21**	1

Wood Screw Eyebolts

Wood screw thread and gimlet point.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
Steel							
Zinc Plated Finish							
¼"-20	3 11/16 in	2 in	2 ¾ in	½ in	15/16 in	**35Z533**	10
	4 ⅞ in	2 in	4 in	½ in	15/16 in	**35Z558**	10
5/16"-18	3 ⅞ in	2 in	2 ¾ in	⅝ in	1 11/64 in	**35Z557**	10
	5.81 in	2 in	4 ¾ in	⅝ in	1 11/64 in	**5ZU97**	10
⅜"-16	4 ⅜ in	2 ½ in	3 in	¾ in	1 13/32 in	**35Z541**	10
	7 5/16 in	2 ½ in	6 in	¾ in	1 13/32 in	**35Z537**	10

Welded Eyebolts

Include UNC nut and 2 washers.

Thread Size	Overall Length	Thread Length	Shank Length	Eye I.D.	Eye O.D.	Item No.	Pkg. Qty.
316 Stainless Steel							
Plain Finish							
#10-24	3 in	1 ½ in	2 in	13/32 in	23/32 in	**5LAD3**	1
	4 in	2 in	3 in	13/32 in	23/32 in	**5LAD4**	1
¼"-20	3 3/16 in	1 ½ in	2 in	15/32 in	29/32 in	**5LAD5**	1
	4 ¼ in	2 in	3 in	15/32 in	29/32 in	**5LAD6**	1
	5 5/16 in	2 in	4 in	15/32 in	29/32 in	**5LAD7**	1
	6 5/16 in	2 in	5 in	15/32 in	29/32 in	**5LAD8**	1
	7 in	2 in	6 in	15/32 in	29/32 in	**5LAD9**	1
5/16"-18	4 ⅜ in	2 in	3 in	½ in	1 1/16 in	**5LAE0**	1
	5 21/64 in	2 in	4 in	½ in	1 1/16 in	**5LAE1**	1
	6 ⅜ in	2 in	5 in	½ in	1 1/16 in	**5LAE2**	1
	7 ⅜ in	2 in	6 in	½ in	1 1/16 in	**5LAE3**	1
⅜"-16	4 ½ in	2 in	3 in	21/32 in	1 11/32 in	**5LAE4**	1
	5 ½ in	2 in	4 in	21/32 in	1 11/32 in	**5LAE5**	1
	6 ⅝ in	2 in	5 in	21/32 in	1 11/32 in	**5LAE6**	1
	7 ⅝ in	2 in	6 in	21/32 in	1 11/32 in	**5LAE7**	1

Forged Machined Rod Ends

- 304 stainless steel have plain finish
- Alloy steel and steel have black oxide finish
- Fully threaded

KEN FORGING Forged Industrial Hardware

19L383

Thread Size	Shank Dia.	Hole I.D.	Length	Boss Dia.	Boss Thickness	304 SS Item No.	Alloy Steel Item No.	Steel Item No.
¼"-20	¼ in	¼ in	1 ½ in	39/64 in	¼ in	**19L383**	**19L354**	**19L325**
			3 ½ in	39/64 in	¼ in	**19L384**	**19L355**	**19L326**
			6 in	39/64 in	¼ in	**19L385**	**19L356**	**19L327**
¼"-28			3 ½ in	39/64 in	¼ in	**19L409**	**19L379**	**19L350**
5/16"-18	5/16 in	5/16 in	1 ½ in	39/64 in	5/16 in	**19L386**	**19L357**	**19L328**
			3 ½ in	43/64 in	5/16 in	**19L387**	**19L358**	**19L329**
			6 in	43/64 in	5/16 in	**19L388**	**19L359**	**19L330**
⅜"-16	⅜ in	⅜ in	1 15/16 in	13/16 in	⅜ in	**19L389**	**19L360**	**19L331**
			3 ½ in	13/16 in	⅜ in	**19L390**	**19L361**	**19L332**
			5 in	13/16 in	⅜ in	**19L391**	**19L362**	**19L333**
			6 in	13/16 in	⅜ in	**19L392**	**19L363**	**19L334**
⅜"-24			3 ½ in	13/16 in	⅜ in	**19L410**	**19L380**	**19L351**
½"-13	½ in	½ in	2 7/16 in	1 1/32 in	½ in	**19L393**	**19L364**	**19L335**
			3 ½ in	1 1/32 in	½ in	**19L394**	**19L365**	**19L336**
			5 in	1 1/32 in	½ in	**19L395**	**19L366**	**19L337**
			6 in	1 1/32 in	½ in	**19L396**	**19L367**	**19L338**
½"-20			3 ½ in	1 1/32 in	½ in	**19L411**	**19L381**	**19L352**
⅝"-11	⅝ in	⅝ in	3 ½ in	1 5/16 in	⅝ in	**19L397**	**19L368**	**19L339**
			5 in	1 5/16 in	⅝ in	**19L398**	**19L369**	**19L340**
			6 in	1 5/16 in	⅝ in	**19L399**	**19L370**	**19L341**
¾"-10	¾ in	¾ in	3 ½ in	1 9/16 in	¾ in	**19L401**	**19L371**	**19L342**
			5 in	1 9/16 in	¾ in	**19L402**	**19L372**	**19L343**
			6 in	1 9/16 in	¾ in	**19L403**	**19L373**	**19L344**
¾"-16			6 in	1 9/16 in	¾ in	—	**19L382**	**19L353**
			6 in	1 9/16 in	¾ in	**19L412**	—	—
⅞"-9	⅞ in	⅞ in	5 in	1 ⅞ in	⅞ in	**19L404**	**19L374**	**19L345**
			6 in	1 ⅞ in	⅞ in	**19L405**	**19L375**	**19L346**
1"-8	1 in	1 in	6 in	2 3/32 in	1 in	**19L406**	**19L376**	**19L347**
1 ¼"-7	1 ¼ in	1 ¼ in	6 in	2 21/32 in	1 ¼ in	**19L407**	**19L377**	**19L348**
1 ½"-6	1 ½ in	1 ½ in	6 in	3 3/32 in	1 ½ in	**19L408**	**19L378**	**19L349**

Black Oxide Coated Steel Rod Ends

- Partially threaded

Thread Size	Shank Dia.	Hole I.D.	Length	Boss Dia.	Boss Thickness	Item No.	Pkg. Qty.
¼"-20	¼ in	3/16 in	2 in	½ in	9/32 in	**4YVH7**	10
5/16"-18	5/16 in	5/16 in	3 in	⅝ in	11/32 in	**4YVH8**	10
⅜"-16	⅜ in	⅜ in	3 ¾ in	¾ in	7/16 in	**4YVJ2**	10
		5/16 in	3 in	¾ in	7/16 in	**4YVH9**	10
		⅜ in	4 in	¾ in	7/16 in	**4YVJ3**	10
		⅜ in	5 in	¾ in	7/16 in	**4YVJ4**	10
½"-13	½ in	⅜ in	3 ¾ in	1 in	9/16 in	**4YVJ5**	10
		⅜ in	4 in	1 in	9/16 in	**4YVJ6**	10
		⅜ in	5 in	1 in	9/16 in	**4YVJ8**	10
⅝"-11	⅝ in	⅝ in	4 ½ in	1 ¼ in	11/16 in	**4YVJ9**	10
		⅝ in	5 in	1 ¼ in	11/16 in	**4YVK1**	10
		⅝ in	6 in	1 ¼ in	11/16 in	**4YVK2**	10
¾"-10	¾ in	¾ in	4 ½ in	1 ½ in	13/16 in	**4YVK3**	10
		¾ in	6 in	1 ½ in	13/16 in	**4YVK4**	10

With Shoulder

Without Shoulder

KEN FORGING
Forged Industrial Hardware

Drop-Forged Eyebolts

Loads are based on a safety factor of 5-to-1. Heat-treated, forged carbon steel eyebolts are available with zinc plated or hot galvanized finish. Stainless steel eyebolts have plain finish.

Thread Size	Shank Length	Eye I.D.	Eye O.D.	Working Load Limit	Finish	WITH SHOULDER Item No.	WITHOUT SHOULDER Item No.
316 Stainless Steel							
¼"-20	2 in	½ in	1 in	500 lb	Plain	**19L190**	—
⅜"-16	2 ½ in	¾ in	1 ½ in	1,200 lb	Plain	**19L195**	—
	4 ½ in	¾ in	1 ½ in	1,200 lb	Plain	**19L196**	—
	10 in	¾ in	1 ½ in	1,200 lb	Plain	**19L198**	—
½"-13	4 ½ in	1 in	2 in	2,200 lb	Plain	—	**19L175**
	4 in	1 3⁄16 in	2 1⁄16 in	2,400 lb	Plain	**19L165**	—
	6 in	1 in	2 in	2,200 lb	Plain	**19L201**	**19L176**
	12 in	1 in	2 in	2,200 lb	Plain	**19L202**	—
⅝"-11	6 in	1 ⅜ in	2 ½ in	3,500 lb	Plain	**19L203**	—
	12 in	1 ⅜ in	2 ½ in	3,500 lb	Plain	**19L204**	—
¾"-10	6 in	1 ½ in	2 13⁄16 in	5,200 lb	Plain	**19L205**	**19L180**
⅞"-9	6 in	1 ¾ in	3 ½ in	7,200 lb	Plain	**19L207**	—
	12 in	1 ¾ in	3 ½ in	7,200 lb	Plain	—	**19L183**
1"-8	6 in	2 in	4 in	10,000 lb	Plain	**19L209**	**19L184**
Steel							
¼"-20	2 in	½ in	1 in	500 lb	Zinc	—	**3XRZ2**
	2 in	½ in	1 in	500 lb	Galv	**3XTE3**	**35Z457**
	3 in	½ in	1 in	500 lb	Zinc	—	**3XRZ3**
	3 in	½ in	1 in	500 lb	Galv	—	**35Z477**
	4 in	½ in	1 in	500 lb	Zinc	—	**3XRZ4**
	4 in	½ in	1 in	500 lb	Galv	**3XTE4**	**35Z459**
	5 in	½ in	1 in	500 lb	Zinc	—	**3XRZ5**
	6 in	½ in	1 in	500 lb	Zinc	—	**3XRZ6**
	6 in	½ in	1 in	500 lb	Galv	—	**35Z493**
5⁄16"-18	2 ¼ in	⅝ in	1 ¼ in	800 lb	Galv	**3ZGV2**	**3ZHG6**
	3 ¼ in	⅝ in	1 ¼ in	800 lb	Galv	—	**3ZHG7**
	4 ¼ in	⅝ in	1 ¼ in	800 lb	Galv	**3ZGV3**	**3ZHG8**
	5 in	⅝ in	1 ¼ in	800 lb	Galv	—	**3ZHG9**
	6 in	⅝ in	1 ¼ in	800 lb	Galv	—	**3ZHH1**
⅜"-16	2 ½ in	¾ in	1 ½ in	1,200 lb	Galv	**3ZGV4**	**35Z440**
	3 in	¾ in	1 ½ in	1,200 lb	Galv	—	**35Z489**
	4 ½ in	¾ in	1 ½ in	1,200 lb	Galv	**3ZGV5**	**35Z442**
	4 in	¾ in	1 ½ in	1,200 lb	Galv	—	**35Z474**
	5 in	¾ in	1 ½ in	1,200 lb	Galv	—	**3ZHH5**
	6 in	¾ in	1 ½ in	1,200 lb	Galv	**3LVX9**	**35Z447**
	8 in	¾ in	1 ½ in	1,200 lb	Galv	—	**35Z496**
	10 in	¾ in	1 ½ in	1,200 lb	Galv	—	**3JWY2**
½"-13	2 in	1 in	2 in	2,200 lb	Galv	**3ZGV6**	**35Z503**
	3 ¼ in	1 in	2 in	2,200 lb	Galv	**3ZGV7**	**35Z464**
	4 ½ in	1 in	2 in	2,200 lb	Galv	—	**35Z463**
	4 in	1 in	2 in	2,200 lb	Galv	**3LVY1**	**3JWY3**
	6 in	1 in	2 in	2,200 lb	Galv	**3ZGV8**	**35Z461**
	8 in	1 in	2 in	2,200 lb	Galv	—	**35Z475**
	10 in	1 in	2 in	2,200 lb	Galv	—	**35Z476**
	12 in	1 in	2 in	2,200 lb	Galv	**3LVY2**	**35Z467**
⅝"-11	4 ½ in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3ZGV9**	**3ZHJ6**
	4 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY3**	**3JWY4**
	6 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3ZGW1**	**3ZHJ7**
	8 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY4**	**3ZHJ8**
	10 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY5**	**3ZHJ9**
	12 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY6**	**3ZHK1**
	15 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY7**	**3ZHK2**
	18 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY8**	**3ZHK3**
	24 in	1 ⅜ in	2 ½ in	3,500 lb	Galv	**3LVY9**	**3ZHK4**
¾"-10	4 ½ in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3ZGW2**	**3ZHK5**
	4 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ1**	**3JWY5**
	6 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3ZGW3**	**3ZHK6**
	8 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ2**	**3ZHK7**
	10 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ3**	**3ZHK8**
	12 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ4**	**3ZHK9**
	15 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ5**	**3ZHL1**
	18 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ6**	**3ZHL2**
	24 in	1 ½ in	2 13⁄16 in	5,200 lb	Galv	**3LVZ7**	**3JWY6**
⅞"-9	5 in	1 ¾ in	3 ½ in	7,200 lb	Galv	**3ZGW4**	**3ZHL3**
	6 in	1 ¾ in	3 ½ in	7,200 lb	Galv	**3LVZ8**	—
	8 in	1 ¾ in	3 ½ in	7,200 lb	Galv	**3ZGW5**	**3ZHL4**
	10 in	1 ¾ in	3 ½ in	7,200 lb	Galv	—	**3JWY8**
	12 in	1 ¾ in	3 ½ in	7,200 lb	Galv	**3LVZ9**	—
	18 in	1 ¾ in	3 ½ in	7,200 lb	Galv	—	**3XRY5**
	24 in	1 ¾ in	3 ½ in	7,200 lb	Galv	**3LWA1**	—
1"-8	6 in	2 in	4 in	10,000 lb	Galv	**3ZGW6**	**3XRY6**
	8 in	2 in	4 in	10,000 lb	Galv	—	**3JWZ1**
	9 in	2 in	4 in	10,000 lb	Galv	**3ZGW7**	—
	10 in	2 in	4 in	10,000 lb	Galv	—	**3XRY7**
	12 in	2 in	4 in	10,000 lb	Galv	**3LWA2**	**3XRY8**
	15 in	2 in	4 in	10,000 lb	Galv	—	**3JWZ2**
	18 in	2 in	4 in	10,000 lb	Galv	—	**3XRY9**
	24 in	2 in	4 in	10,000 lb	Galv	**3LWA3**	**3XRZ1**
1 ¼"-7	6 in	2 3⁄16 in	4 7⁄16 in	13,500 lb	Galv	**3LWA4**	—
	8 in	2 3⁄16 in	4 7⁄16 in	13,500 lb	Galv	**3LWA5**	—
	12 in	2 3⁄16 in	4 7⁄16 in	13,500 lb	Galv	**3LWA6**	**3JWZ5**
	18 in	2 3⁄16 in	4 7⁄16 in	13,500 lb	Galv	—	**3JWZ6**
1 ½"-6	6 in	2 ½ in	5 3⁄16 in	20,000 lb	Galv	**3LWA8**	**3JWZ8**
	12 in	2 ½ in	5 3⁄16 in	20,000 lb	Galv	**3LWA9**	—
	18 in	2 ½ in	5 3⁄16 in	20,000 lb	Galv	—	**3JXA1**

Half Clip

Half Clip w/Vinyl Plastisol Cushion

Loop Strap

Loop Strap w/Vinyl Plastisol Cushion

Loop Strap w/Extruded EDPM Cushion

Wire/Cable Clamps

- Temp range: -50° to 350°F (Rubber); -30° to 180°F (Vinyl)

Vinyl Plastisol cushioned clamps are chem-treated for corrosion resistance.

Clamping Dia.	Thickness	Mounting Hole Dia.	Material	Width	Item No.	Pkg. Qty.
Clamp						
Half Clip						
3⁄16"	0.032 in	0.2188 in	Steel	½ in	**6RNA8**	50
¼"	0.032 in	0.2813 in	Steel	½ in	**6RNA9**	50
5⁄16"	0.048 in	0.2813 in	Steel	½ in	**6RNC0**	50
⅜"	0.048 in	0.2813 in	Steel	½ in	**6RNC1**	50
½"	0.06 in	0.2813 in	Steel	½ in	**6RNC2**	50
⅝"	0.06 in	0.2813 in	Steel	½ in	**6RNC3**	50
¾"	0.06 in	0.2813 in	Steel	½ in	**6RNC4**	50
Half Clip with Cushion						
3⁄16"	0.032 in	0.2188 in	Steel	½ in	**6YDR3**	50
¼"	0.048 in	0.2813 in	Steel	½ in	**6YDR4**	50
5⁄16"	0.048 in	0.2813 in	Steel	½ in	**6YDR5**	50
⅜"	0.048 in	0.2813 in	Steel	½ in	**6YDR6**	50
½"	0.06 in	0.2813 in	Steel	½ in	**6RNA5**	50
⅝"	0.06 in	0.2813 in	Steel	½ in	**6RNA6**	50
¾"	0.06 in	0.2813 in	Steel	½ in	**6RNA7**	50
Light Duty with Cushion						
¼"	0.032 in	0.2031 in	Steel	½ in	**6YDP6**	50
5⁄16"	0.032 in	0.2031 in	Steel	½ in	**6YDP7**	50
⅜"	0.032 in	0.2031 in	Steel	½ in	**6YDP8**	50
½"	0.032 in	0.2031 in	Steel	½ in	**6YDP9**	50
⅝"	0.032 in	0.2031 in	Steel	½ in	**6YDR0**	50
¾"	0.032 in	0.2031 in	Steel	½ in	**6YDR1**	50
⅞"	0.032 in	0.2031 in	Steel	½ in	**6YDR2**	50
Loop Strap						
¼"	0.032 in	0.2813 in	Aluminum	½ in	**6RNC6**	50
5⁄16"	0.032 in	0.2813 in	Aluminum	½ in	**6RNC7**	50
⅜"	0.032 in	0.2813 in	Aluminum	½ in	**6RNC8**	50
½"	0.048 in	0.2813 in	Aluminum	½ in	**6RNC9**	50
⅝"	0.048 in	0.2813 in	Aluminum	½ in	**6RND0**	50
¾"	0.048 in	0.2813 in	Aluminum	½ in	**6RND1**	50
⅞"	0.048 in	0.2813 in	Aluminum	½ in	**6RND2**	25
1"	0.048 in	0.2813 in	Aluminum	½ in	**6RND3**	25
Loop Strap, Center to Center Length 15⁄32 in						
3⁄16"	0.032 in	0.2813 in	Aluminum	½ in	**6RNC5**	50
Rubber Cushion						
¼"	0.032 in	0.2813 in	Steel	½ in	**1BAB1**	50
	0.032 in	0.4063 in	Steel	¾ in	**1BAB2**	50
⅜"	0.032 in	0.2813 in	Steel	½ in	**1BAB3**	50
	0.032 in	0.4063 in	Steel	¾ in	**1BAB4**	50
½"	0.032 in	0.2813 in	Steel	½ in	**1BAB5**	50
	0.048 in	0.4063 in	Steel	¾ in	**1BAB6**	50
⅝"	0.032 in	0.2813 in	Steel	½ in	**1BAB7**	50
	0.048 in	0.4063 in	Steel	¾ in	**1BAB8**	50
¾"	0.032 in	0.2813 in	Steel	½ in	**1BAB9**	50
	0.048 in	0.4063 in	Steel	¾ in	**1BAC1**	50
⅞"	0.032 in	0.2813 in	Steel	½ in	**1BAC2**	50
	0.048 in	0.4063 in	Steel	¾ in	**1BAC3**	50
1"	0.032 in	0.2813 in	Steel	½ in	**1BAC4**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAC5**	25
1⅛"	0.048 in	0.2813 in	Steel	½ in	**4DZZ5**	25
1¼"	0.048 in	0.2813 in	Steel	½ in	**1BAC6**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAC7**	25
1⅜"	0.048 in	0.2813 in	Steel	½ in	**4DZZ6**	25
1½"	0.048 in	0.2813 in	Steel	½ in	**1BAC8**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAC9**	25
1⅝"	0.048 in	0.2813 in	Steel	½ in	**4DZZ7**	10
1¾"	0.048 in	0.2813 in	Steel	½ in	**1BAE1**	10
	0.048 in	0.4063 in	Steel	¾ in	**1BAE2**	10
2"	0.048 in	0.2813 in	Steel	½ in	**1BAE3**	10
	0.048 in	0.4063 in	Steel	¾ in	**1BAE4**	10
Vinyl Coated						
3⁄16"	0.032 in	0.2813 in	Steel	½ in	**1AYZ2**	50
	0.032 in	0.4063 in	Steel	¾ in	**1AYZ3**	50
¼"	0.032 in	0.2813 in	Steel	½ in	**1AYZ4**	50
	0.032 in	0.4063 in	Steel	¾ in	**1AYZ5**	50
5⁄16"	0.032 in	0.2813 in	Steel	½ in	**1AYZ6**	50
	0.032 in	0.4063 in	Steel	¾ in	**1AYZ7**	50
⅜"	0.032 in	0.2813 in	Steel	½ in	**1AYZ8**	50
	0.032 in	0.4063 in	Steel	¾ in	**1AYZ9**	50
½"	0.048 in	0.2813 in	Steel	½ in	**1AZG2**	50
	0.048 in	0.4063 in	Steel	¾ in	**1AZK3**	50
⅝"	0.048 in	0.2813 in	Steel	½ in	**1AZL1**	50
	0.048 in	0.4063 in	Steel	¾ in	**1AZL2**	50
¾"	0.048 in	0.2813 in	Steel	½ in	**1AZL3**	50
	0.048 in	0.4063 in	Steel	¾ in	**1AZL4**	50
⅞"	0.048 in	0.2813 in	Steel	½ in	**1AZL5**	50
	0.048 in	0.4063 in	Steel	¾ in	**1AZL6**	50
1"	0.048 in	0.2813 in	Steel	½ in	**1AZL7**	25
	0.048 in	0.4063 in	Steel	¾ in	**1AZL8**	25
1¼"	0.048 in	0.2813 in	Steel	½ in	**1AZL9**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAA1**	25
1½"	0.048 in	0.2813 in	Steel	½ in	**1BAA2**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAA3**	25
1¾"	0.048 in	0.2813 in	Steel	½ in	**1BAA4**	25
	0.048 in	0.4063 in	Steel	¾ in	**1BAA5**	10
2"	0.048 in	0.2813 in	Steel	½ in	**1BAA6**	10
	0.048 in	0.4063 in	Steel	¾ in	**1BAA7**	10
2½"	0.048 in	0.4063 in	Steel	¾ in	**1BAA8**	5
3"	0.048 in	0.4063 in	Steel	¾ in	**1BAA9**	5
Clamp, Loop Strap						
Cushioned						
¼"	0.032 in	0.2813 in	304 SS	½ in	**2UTF1**	25
⅜"	0.032 in	0.2813 in	304 SS	½ in	**2UTF2**	25
½"	0.032 in	0.2813 in	304 SS	½ in	**2UTF3**	25
⅝"	0.032 in	0.2813 in	304 SS	½ in	**2UTF4**	25
¾"	0.032 in	0.2813 in	304 SS	½ in	**2UTF5**	25
⅞"	0.032 in	0.2813 in	304 SS	½ in	**2UTF6**	25
1"	0.032 in	0.2813 in	304 SS	½ in	**2UTF7**	25
1¼"	0.048 in	0.2813 in	304 SS	½ in	**2UTF8**	10
1½"	0.048 in	0.2813 in	304 SS	½ in	**2UTF9**	10
1¾"	0.048 in	0.2813 in	304 SS	½ in	**2UTG1**	10
2"	0.048 in	0.2813 in	304 SS	½ in	**2UTG2**	10
Without Cushion						
¼"	0.032 in	0.2813 in	Steel	½ in	**2UTD8**	50
⅜"	0.032 in	0.2813 in	Steel	½ in	**2UTD9**	50
½"	0.048 in	0.2813 in	Steel	½ in	**2UTE1**	50
⅝"	0.048 in	0.2813 in	Steel	½ in	**2UTE2**	50
¾"	0.048 in	0.2813 in	Steel	½ in	**2UTE3**	50
⅞"	0.048 in	0.2813 in	Steel	½ in	**2UTE4**	50
1"	0.048 in	0.2813 in	Steel	½ in	**2UTE5**	25
1¼"	0.048 in	0.2813 in	Steel	½ in	**2UTE6**	25
1½"	0.048 in	0.2813 in	Steel	½ in	**2UTE7**	25
1¾"	0.048 in	0.2813 in	Steel	½ in	**2UTE8**	25
2"	0.048 in	0.2813 in	Steel	½ in	**2UTE9**	10

Nut Information

NUT TYPES

Acorn
Blind tapped hex nuts with an acorn-shaped, peaked cap keep the end of the bolt or other threaded fastener from protruding to protect the threads. See page 2084.

Cap
Snap into place by hand and lock into the stud securely. See page 2085.

Captive
Also known as insert nuts, captive nuts help provide load-bearing threads in soft or thin materials. See grainger.com/fasteners.

Coupling
Elongated nuts are tapped from each side so threads meet in the middle, rather than entirely through in the same direction. See page 2084

Deformed
Feature irregular internal threads that lock onto the matting threads of a bolt or rod and prevent rotation or loosening. See page 2083.

Hex
General purpose hexagonal nuts for use with non locking applications on male threaded parts. See page 2079.

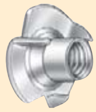
Jam
Used as a second nut; force against the main nut to bind threads and prevent loosening. Prevent 1 nut from moving in the direction of the other without turning both nuts. See page 2080.

Locknuts
Lock onto threaded bolts or rods to prevent rotation or loosening. Minimal reusability. See page 2083.

Push
Hold fasteners in-place before final assembly process occurs. Styles available for studs and bolts. See page 2085.

Spring
Reusable nuts provide the correct amount of spring tension without damaging surfaces, eliminating the need for lockwashers and spanners. See page 2085.

Thumb
Knurled tops allow easy hand tightening, even when wet or greasy or in tight locations. See grainger.com/fasteners.



T-Nuts
Nuts with prongs on 1 side that lock into wood. Often used for fastening metal to wood. See page 2085.

U-Nuts
Multithreaded, tapped barrel nuts for high-torque tightening. Clip over the edge of the panel and snap into place to replace weld or stake nuts. See page 2085.

Weld
Tab base nuts are used when working in confined spaces or when welding to thinner metals. See page 2086.

Wing
1-pc., round, threaded nuts have wing lugs for easy manual assembly. Especially suited to applications where frequent removal, replacement, or adjustment is required. See page 2084.

53WR08

53WP96

Hex Nut Assortments

- Include case

No. of Pieces	Material	Finish	No. of Sizes	Includes	Item No.
Nut Assortment					
Nuts, Inch					
216	Steel	Zinc	12	(30) Each: 10-24, 10-32, (25) Each: 1/4"-28, 1/4"-20, (20) Each: 5/16"-18, 5/16"-24, (15) Each: 3/8"-24, 3/8"-16, (10) Each: 7/16"-20, 7/16"-14, (8) Each: 1/2"-13, 1/2"-20, Plastic Hanging Pak	53WR08
Nylon Insert, Metric					
338	Steel	Zinc	24	Hex Locknuts with Nylon Inserts (32) Each: M5-0.80, M6-1.00, (20) Each: M8-1.25, (16) Each: M4-0.70, M10-1.50, (12) Each: M7-1.00, (6) Each: M12-1.75, (5) Each: M16-2.00, Acorn Nuts (15) Each: M4-0.70, M5-0.80, M6-1.00, M8-1.25, (6) Each: M12-1.75, (5) Each: M10-1.50, Wing Nuts (16) M6-1.00, (15) Each: M4-0.70, (10) Each: M5-0.80, (8) Each: M8-1.25, (6) Each: M10-1.50, M12-1.75, Jam Nuts (25) Each: M6-1.00, (20) Each: M8-1.25, (12) Each: M10-1.50, (10) Each: M12-1.75, Metal Container, Fits Cabinet No. 4UJ35	53WP96

Metric Wind Power Hex Nuts and Locknuts

- Class 10 carbon steel

Used to build and maintain wind towers and turbines.

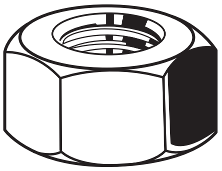
Dia./ Thread Size	Nut Standards	Item No.	Pkg. Qty.
Class 10 Steel Plain			
M30-3.50	DIN 985	**5GAZ4**	1
M36-4.00	DIN 985	**5GAZ5**	1
M42-4.50	DIN 985	**5GAZ6**	1
M48-5.00	DIN 985	**5GAZ7**	1
Class 10 Steel, Plain			
M30-3.50	ISO 4032	**5GAZ8**	1
Class 10 Steel, DAC 500B			
M36-4.00	DIN 934	**5GAZ1**	1
M30-3.50	DIN 6915	**5GAX2**	1
M36-4.00	DIN 6915	**5GAX4**	1
M42-4.50	DIN 6915	**5GAX6**	1

ARMOR COAT™ FASTENERS

Armor Coat Hex Nuts—Grade 8

Armor coating provides exceptional rust and corrosion-resistance, with the strength of Grade 8 steel. Excellent for harsh environments. Meet ASME/ANSI B18.2.2 1987 (R1999) and SAE J995 standards. 1000-hr. salt spray tested.

Dia./ Thread Size	Item No.	Pkg. Qty.
Grade 8 Steel, Armor Coat		
1/4"-20	**5DKE0**	100
5/16"-18	**5DKE1**	100
3/8"-16	**5DKE2**	100
7/16"-14	**5DKE3**	50
1/2"-13	**5DKE4**	50
5/8"-11	**5DKE5**	25
3/4"-10	**5DKE6**	10



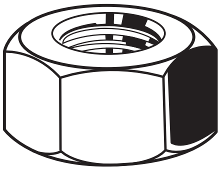
Grades 2, 5, and 8 Steel Hex Nuts

Also known as finished hex nuts.

All meet ASME/ANSI B18.2.2 standards.

Note: Bulk quantities and additional sizes and finishes are available on Grainger.com®.

		Grade 2		Grade 5		Grade 8		
Dia./ Thread Size	Pkg. Qty.	Plain Item No.	Zinc Plated Item No.	Plain Item No.	Zinc Plated Item No.	Plain Item No.	Zinc Plated Item No.	Zinc Yellow Item No.
¼"-20	100	2FE45	2FE47	3XTN5	4FCA9	4FAY3	—	3HDZ2
	100	—	—	38ZR75	38ZR95	38ZT33	—	—
¼"-28	100	2FY25	2FY27	38ZR85	38ZT05	4FAY4	29DU58	3HDZ3
	100	—	—	4FAZ8	3HEE7	38ZT66	—	38ZT76
5⁄16"-18	100	2FE51	2FE53	3HED9	38ZR96	4FAY5	—	3HED5
	100	—	—	38ZR76	3HEE8	38ZT34	—	—
5⁄16"-24	100	2FY29	2FY31	38ZR86	38ZT06	4FAY6	29DK94	3HED6
	100	—	—	4FAZ9	3HEE9	38ZT67	—	—
⅜"-16	100	2FE57	2FE59	3HEE1	3HEF1	38ZT35	—	3HED7
	100	—	—	38ZR77	38ZR97	3HDX7	—	38ZT43
⅜"-24	100	2FY33	2FY35	38ZR87	38ZT07	4FAY7	29DU59	3HDZ7
	100	—	—	4FCA1	3HEF2	38ZT68	—	—
7⁄16"-14	50	2FE63	2FE65	12P525	12P537	38ZT36	—	12P569
	50	—	—	38ZR78	38ZR98	12P559	—	38ZT44
7⁄16"-20	50	2FY37	2FY39	12P526	12P538	38ZT69	29DU60	12P570
	50	—	—	38ZR88	—	12P560	—	—
½"-13	50	2FE67	2FE69	3XTN6	4FCC2	38ZT37	—	3HED8
	50	—	—	38ZR79	38ZR99	4FAY9	—	—
½"-20	50	2FY41	2FY43	3XTL7	38ZT08	38ZT70	29DK95	4FAZ5
	50	—	—	38ZR89	4FCC3	4FAZ1	—	—
9⁄16"-12	25	2FE73	2FE75	12P527	12P539	38ZT38	—	12P571
	25	—	—	38ZR80	—	12P561	—	38ZT45
9⁄16"-18	25	2FY45	2FY47	12P528	38ZT09	12P562	29DG91	12P572
	25	—	—	38ZR90	3HEF5	38ZT71	—	—
⅝"-11	25	2FE77	2FE79	3XTN7	3HEF6	38ZT39	—	3HEA4
	25	—	—	38ZR81	38ZT01	3XTK8	—	38ZT46
⅝"-18	25	2FY49	2FY51	3XTL9	38ZT10	38ZT72	29DU61	3HEA5
	25	—	—	38ZR91	3XTN3	3XTK9	—	38ZT77
¾"-10	20	2FE83	2FE85	12P529	12P540	38ZT40	—	12P573
	20	—	—	38ZR82	38ZT02	12P563	—	38ZT47
	180	42JM06	42JM19	38TT53	42HH77	38ZV16	—	42HN94
	180	—	—	38ZU05	38ZU24	42HN81	—	38ZV23
¾"-16	20	2FY53	2FY55	12P530	12P541	38ZT73	29DU62	12P574
	20	—	—	38ZR92	38ZT11	12P564	—	38ZT78
	180	42JM32	42JM45	42HF98	42HH90	42HT38	42HT26	38ZV73
	180	—	—	38ZU15	38ZU33	38ZV68	—	42HT51
⅞"-9	10	12P503	12P511	38ZR83	12P542	38ZT41	—	12P575
	10	—	—	12P531	38ZT03	12P565	—	38ZT48
	110	42JM07	42JM20	38TT54	42HH78	38ZV17	—	42HN95
	110	—	—	38ZU06	38ZU25	42HN82	—	38ZV24
⅞"-14	10	12P504	12P512	38ZR93	12P543	38ZT74	29DK96	12P576
	10	—	—	12P532	38ZT12	12P566	—	38ZT79
	110	42JM33	42JM46	42HF99	42HH91	42HT39	42HT27	38ZV74
	110	—	—	38ZU16	38ZU34	38ZV69	—	42HT52
1"-8	5	12P505	12P513	38ZR84	12P544	38ZT42	—	12P577
	5	—	—	12P533	38ZT04	12P567	—	38ZT49
	75	42JM08	42JM21	38TT55	42HH79	38ZV18	—	42HN96
	75	—	—	38ZU07	38ZU26	42HN83	—	38ZV25
1"-14	5	29DU54	29DU55	29DU56	38ZT13	12P568	—	29DU63
	5	—	—	38ZR94	29DU57	38ZT75	—	—
	75	42JM34	42JM47	42HG01	42HH92	38ZV70	—	42HT53
	75	—	—	38ZU17	38ZU35	42HT40	—	38ZV75
1⅛"-7	5	12P507	12P515	12P535	12P546	3HDX9	—	3HEC3
	50	42JM09	42JM22	41HH02	42HH80	42HN84	—	42HN97
1⅛"-12	5	12P508	12P516	12P536	12P547	3HDY1	22UK69	3HEC4
	50	42JM35	42JM48	42HG02	42HH93	42HT41	42HT28	42HT54
1¼"-7	5	12P509	12P517	3HEE3	3HEG4	3HDY2	—	3HEC5
	40	42JM10	42JM23	41HH03	42HH81	42HN85	—	42HN98
1¼"-12	5	12P510	12P518	—	3HEG5	3HDY3	29DK98	3HEC6
	40	42JM36	42JM49	42HG03	42HH94	42HT42	42HT29	42HT55
1½"-6	5	22UK36	22UK48	22UK39	22UK60	22UK64	—	26WC29
	20	42JM11	42JM24	42HF90	42HH82	42HN86	—	42HN99
1½"-12	5	22UK37	22UK38	22UK62	22UK40	22UK41	29DK99	22UK66
	20	42JM37	42JM50	42HG04	42HH95	42HT43	42HT30	42HT56



Specialty Hex Nuts

Meet ASME/ANSI B18.2.2 standards.

Dia./ Thread Size	Item No.	Pkg. Qty.
Hex Nut		
18-8 Stainless Steel, Plain		
¼"-20	22UK70	50
¼"-28	22YK25	50
5⁄16"-18	22YK24	50
5⁄16"-24	22YK26	50
⅜"-16	1WB27	100
⅜"-24	22YK27	50
7⁄16"-14	40TW72	25
7⁄16"-20	22YK28	25
½"-13	40TW73	25
½"-20	22YK29	25
9⁄16"-12	22UK42	25
9⁄16"-18	22UK46	25
⅝"-11	1WB44	25
⅝"-18	1WB46	25
¾"-10	1WB48	20
¾"-16	22UK47	20
⅞"-9	40TW77	5
⅞"-14	1WB54	5
1"-8	1WB56	5
1"-12	1WB58	1
1"-14	29DR09	5
1⅛"-7	22UK43	5
1⅛"-12	22UK49	5
1¼"-7	22UK44	5
1¼"-12	22UK50	5
1½"-6	22UK45	5
1½"-12	22UK51	5
316 Stainless Steel, Plain		
¼"-20	22YK30	50
5⁄16"-18	40TX15	50
⅜"-16	1WB84	50
7⁄16"-14	40TX17	25
½"-13	1WB88	25
9⁄16"-12	29DU02	25
⅝"-11	22UK71	25
¾"-10	22YK32	20
⅞"-9	1WB94	5
1"-8	1WB96	5
1⅛"-7	22UK52	5
1¼"-7	22UK53	5
1½"-6	22UK54	5
Not Graded Brass, Plain		
¼"-20	1WE14	100
¼"-28	1WE16	100
5⁄16"-18	1WE18	100
5⁄16"-24	1WE20	100
⅜"-16	1WE22	50
⅜"-24	1WE24	50
7⁄16"-14	1WE26	25
7⁄16"-20	1WE28	25
½"-13	1WE30	25
½"-20	1WE32	25
⅝"-11	1WE34	10
¾"-10	1WE36	5
¾"-16	1WE38	5
⅞"-9	1WE40	5
1"-8	1WE42	1
1¼"-7	1WE44	1
Silicon Bronze, Plain		
¼"-20	1WE46	50
5⁄16"-18	1WE48	50
⅜"-16	1WE50	25
½"-13	1WE52	25
⅝"-11	1WE54	10
¾"-10	1WE56	1
⅞"-9	1WE58	1
1"-8	1WE60	1

Machine Screw Hex Nuts

General purpose. 18-8 and 316 stainless steel meet ASME B18.2.2 standard; all others meet ASME B18.6.3.

Dia./Thread Size	Item No.	Pkg. Qty.
Machine Screw Nut		
18-8 Stainless Steel, Plain		
#0-80	1WA77	100
#1-72	1WA79	100
#2-56	1WA81	100
#4-40	1WA85	100
#5-40	1WA87	100
#6-32	1WA89	100
#8-32	1WA91	100
#10-24	1WA93	100
#10-32	1WA95	100
#12-24	1WA97	100
316 Stainless Steel, Plain		
#4-40	1WA99	100
#6-32	1WB11	100
#8-32	1WB13	100
#10-24	1WB15	100
#10-32	1WB17	100
Not Graded Brass, Plain		
#1-72	1WA57	100
#2-56	1WA59	100
#4-40	1WA63	100
#6-32	1WA67	100
#8-32	1WA69	100
#10-24	1WA71	100
#10-32	1WA73	100
#12-24	1WA75	100
¼"-20	2WA21	100
Steel, Zinc Plated		
#8-36	2TJ18	100

Hex Thin (Jam) Nuts

Used in combination with hex nuts to create a locking action. Meet ASME/ANSI B18.2.2 standards, except A2 stainless steel nuts meet DIN 439B standards.

Note: 316 stainless steel and brass hex thin (jam) nuts are also available on Grainger.com®.

Dia./ Thread Size	Item No.	Pkg. Qty.
Jam Nut		
304 Stainless Steel, Plain		
⅝"-11	41VL47	10
⅞"-9	41VL49	5
316 Stainless Steel, Plain		
7⁄16"-14	41VL44	50
1"-8	41VL50	5
1⅛"-7	41VL51	1
1¼"-7	41VL52	1
1½"-6	41VL53	1
Thin Nut		
18-8 Stainless Steel, Plain		
⅜"-24	1WE95	100
½"-20	1WU11	50
⅝"-18	1WU17	25
¾"-16	1WU21	10
A2 Stainless Steel, Plain		
M3-0.50	38DZ94	100
M4-0.70	38DZ95	100
M5-0.80	38DZ96	100
M6-1.00	38DZ97	100
M8-1.25	38DZ98	100
M10-1.50	38DZ99	100
M12-1.75	38EA01	100
M14-2.00	38EA02	50
M16-2.00	38EA03	50
M20-2.50	38EA04	25
M24-3.00	38EA05	10
M30-3.50	38EA06	3
Low Carbon Steel, Plain		
1⅜"-12	1XA57	5
1¾"-5	1XA60	1
1¾"-12	1XA61	1
2"-4-1/2	1XA62	1
2"-12	1XA63	1
Low Carbon Steel, Zinc Plated		
¼"-20	1JY41	100
¼"-28	1JY61	100
5⁄16"-18	1JY43	100
5⁄16"-24	1JY63	100
⅜"-16	1JY45	100
⅜"-24	1JY65	100
7⁄16"-14	1JY47	50
7⁄16"-20	1JY67	50
½"-13	1JY49	50
½"-20	1JY69	50

Grade 9 Steel Hex Nuts

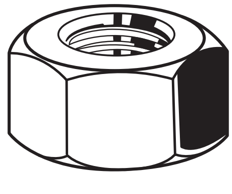
Right-hand thread direction. Meet ANSI B1.1 standards.

Dia./ Thread Size	Item No.	Pkg. Qty.
Hex Nut		
Grade 9 Steel, Zinc Yellow CR+3		
1/4"-20	452J68	100
1/4"-28	452J78	100
5/16"-18	452J69	100
5/16"-24	452J79	100
3/8"-16	452J70	100
3/8"-24	452J80	100
7/16"-14	452J71	50
7/16"-20	452J81	50

Dia./ Thread Size	Item No.	Pkg. Qty.
1/2"-13	452J72	50
1/2"-20	452J82	50
9/16"-12	452J73	25
9/16"-18	452J83	25
5/8"-11	452J74	25
5/8"-18	452J84	25
3/4"-10	452J75	20
3/4"-16	452J85	20
7/8"-9	452J76	15

Dia./ Thread Size	Item No.	Pkg. Qty.
7/8"-14	452J86	15
1"-8	452J77	10
1"-14	452J87	10
1 1/8"-7	452J88	8
1 1/8"-12	452J91	8
1 1/4"-7	452J89	8
1 1/4"-12	452J92	8
1 1/2"-6	452J90	5
1 1/2"-12	452J93	5

Heavy Hex Nuts



Extra-wide, extra-thick nuts have increased bearing surface and thread engagement for improved hold.

Brass—Meet ASME/ANSI B18.2.2 standards.

Grade 2 Steel—Meet or exceed ASME/ANSI B18.2.2, ASTM A563, and SAE J995 standards.

Grade 2H Steel—For use with structural bolts. Meet ASTM A194 standard.

Grade C Plain Steel & Galvanized Steel—Additional thickness increases bearing surface and engagement of right-hand threads. Meet ASTM A563 standard.

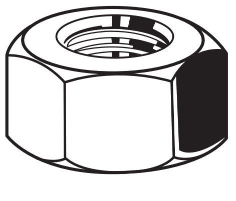
Dia./ Thread Size	Item No.	Pkg. Qty.
Steel, Hot Dipped Galvanized		
1/2"-13	1AY76	50
5/8"-11	1AY80	25
3/4"-10	1AY84	20
7/8"-9	1AY87	15
1"-8	1AY91	10
Grade C Steel, Plain		
1/2"-13	1XA38	50
5/8"-11	1XA32	25
3/4"-10	1XA48	25
7/8"-9	1XA31	10
1"-8	1XA42	10
1 1/4"-7	1XA26	5
Grade A Steel, Plain		
1 1/2"-6	2GA35	10
Grade 2H Steel, Plain		
1 3/8"-8	1XA21	1
1 1/2"-6	1XA22	1
1 1/2"-8	1XA23	1
1 3/4"-8	1XA33	1
1 7/8"-8	1XA40	1
2"-4-1/2	1XA47	1
2"-8	1XA55	1
2 1/4"-8	1XA56	1
Grade 2H Steel, Hot Dipped Galvanized		
1/2"-13	12P579	25
5/8"-11	1XA41	25
3/4"-10	1XA25	10
7/8"-9	12P580	5
1"-8	12P581	5

Dia./ Thread Size	Item No.	Pkg. Qty.
1 1/8"-7	12P582	5
1 1/4"-7	12P584	5
1 1/2"-6	1XA54	1
1 3/4"-5	1XA34	1
2"-4-1/2	1XA44	1
Grade 2H Steel, Black Oxide		
5/16"-18	12P586	50
Class 2H Steel, Plain		
M10-1.50	38DM02	20
M12-1.75	38DM03	20
M14-2.00	38DM04	10
M16-2.00	38DM05	10
M18-2.50	38DM06	10
M20-2.50	38DM07	10
M22-2.50	38DM08	2
M24-3.00	38DM09	2
M27-3.00	38DM10	2
M30-3.50	38DM11	2
M33-3.50	38DM12	1
M36-4.00	38DM13	1
M39-4.00	38DM14	1
M42-4.50	38DM15	1
M45-4.50	38DM16	1
M48-5.00	38DM17	1
Class 10 Steel, Plain		
M12-1.75	38CT51	200
M16-2.00	38CT52	100
M20-2.50	38CT53	100
M22-2.50	38CT54	50
M24-3.00	38CT55	50
M27-3.00	38CT56	50

Dia./ Thread Size	Item No.	Pkg. Qty.
Class 10 Steel, Hot Dipped Galvanized		
M12-1.75	38CV80	200
M16-2.00	38CV81	100
M20-2.50	38CV82	100
M22-2.50	38CV83	50
M24-3.00	38CV84	50
M27-3.00	38CV85	50
M30-3.50	38CV86	50
M36-4.00	38CV87	25
Brass, Plain		
1/4"-20	1WY37	100
5/16"-18	1WY39	50
3/8"-16	1WY41	25
7/16"-14	1WY43	25
1/2"-13	1WY45	10
5/8"-11	1WY47	5
3/4"-10	1WY49	5
7/8"-9	1WY51	1
1"-8	1WY53	1
1/4"-20	22UK88	300
3/8"-16	26LU89	300
7/16"-14	26LU39	300
1/2"-13	22UK90	300
	26LU58	300
	26LU90	300
9/16"-12	26LU40	200
5/8"-11	22YK34	200
	26LU59	200
	26LU91	200
3/4"-10	22UK91	200
	26LU60	200
	26LU92	200

Dia./ Thread Size	Item No.	Pkg. Qty.
7/8"-9	22UK92	80
	26LU61	80
	26LU93	80
1"-8	22YK35	50
	26LU62	50
	26LU94	50
1 1/8"-8	26LU41	40
	26LU63	40
	26LU95	40
1 1/4"-8	26LU42	30
	26LU64	30
	26LU96	30
1 3/8"-8	26LU43	25
	26LU65	25
1 1/2"-8	26LU44	20
	26LU66	20
	26LU97	20
1 5/8"-8	26LU45	15
	26LU67	15
	26LU98	15
1 3/4"-8	26LU99	15
	26LV03	15
1 7/8"-8	26LV01	15
	26LV04	15
2"-8	26LU46	10
	26LU68	10
2 1/4"-8	26LU47	10
	26LU69	10
2 1/2"-8	26LU48	6
2 3/4"-8	26LU49	6
3"-8	26LU50	4

Metric Hex Nuts



Meet DIN 934 standard, except 29DH15 to 29DH17 and 22UK83 to 22UK87 meet ISO 4032.

Note: Brass nuts are also available; on Grainger.com®, search for "brass metric hex nuts."

Dia./Thread Size	Item No.	Pkg. Qty.
Class 8 Steel, Zinc Yellow		
M3-0.50	38CR17	100
M4-0.70	38CR18	100
M5-0.80	38CR19	100
M6-1.00	38CR20	100
M6-0.75	26KR88	100
M7-1.00	38CR21	100
M8-1.25	38CR22	100
M8-1.00	29DH18	100
M10-1.50	38CR23	100
M10-1.25	26KR89	100
M10-1.00	29DH19	100
M12-1.75	38CR24	50
M12-1.50	26KR91	50
M12-1.25	26KR90	50
M12-1.00	29DH20	50
M14-2.00	38CR25	50
M14-1.50	26KR92	50
M16-2.00	38CR26	25
M16-1.50	26KR93	25
M18-2.50	38CR27	25
M18-2.00	38CR31	5
M18-1.50	42FY14	200
M20-2.50	38CR28	10
M20-2.00	38CR32	5
M20-1.50	42FY15	170
M22-2.50	38CR29	10
M22-1.50	26KR96	10
M24-3.00	38CR30	5
M24-2.00	29DH22	10
M24-1.50	29DH21	10
M27-2.00	38CR33	2
M27-1.50	29DH23	5
M30-2.00	29DH25	5
M30-1.50	29DH24	5
Class 8 Steel, Zinc Plated		
M2-0.40	26KR83	100
M2.5-0.45	26KR84	100
M3-0.50	26KR85	100
M4-0.70	22UK83	100
M5-0.80	22UK84	100
M6-1.00	22UK85	100
M7-1.00	6CA76	100
M8-1.25	22UK86	100
M8-1.00	6CB14	100
M10-1.50	22UK87	100
M10-1.25	6CB18	50
M10-1.00	6CB16	50
M12-1.75	29DH15	50
M12-1.50	6CB22	50
M12-1.25	6CB20	50
M14-2.00	6CA80	50
M14-1.50	6CB24	25
M16-2.00	29DH16	25
M16-1.50	6CB26	20
M18-2.50	6CA82	25

Dia./Thread Size	Item No.	Pkg. Qty.
M18-1.50	6CB28	20
M20-2.50	29DH17	10
M20-1.50	6CB30	20
M22-2.50	26KR86	10
M22-1.50	6CB32	20
M24-3.00	6CA84	10
M24-1.50	6CB34	20
M27-3.00	26KR87	5
M30-3.50	22UK58	5
M33-3.50	29DH11	2
M36-4.00	22UK59	2
Class 8 Steel, Plain		
M3-0.50	26KR47	100
M4-0.75	38CJ09	100
M4-0.70	26KR48	100
M5-0.80	26KR49	100
M6-1.00	26KR50	100
M6-0.75	29DG99	100
M7-1.00	26KR51	100
M8-1.25	26KR52	100
M8-1.00	26KR67	100
M10-1.50	26KR53	100
M10-1.25	26KR69	100
M10-1.00	26KR68	100
M12-1.75	26KR54	50
M12-1.25	42FT22	600
M12-1	26KR70	50
M12-1.00	42FT21	600
M14-2.00	26KR55	50
M14-1.50	26KR73	50
M16-2.00	26KR56	25
M16-1.50	26KR74	25
M16-1.00	38CJ10	25
M18-2.50	26KR57	25
M18-2.00	38CJ12	25
M18-1.50	26KR75	25
M18-1.00	38CJ11	25
M20-2.50	26KR58	10
M20-2.00	38CJ13	10
M20-1.50	42FT27	170
M22-2.50	26KR59	10
M22-2.00	38CJ15	10
M22-1.50	26KR77	10
M22-1.00	38CJ14	10
M24-3.00	26KR60	10
M24-2.00	26KR79	10
M24-1.50	42FT29	100
M26-1.50	38CJ16	5
M27-3.00	26KR61	5
M27-2.00	38CJ17	5
M27-1.50	42FT31	60
M28-2.00	38CJ18	5
M30-3.50	26KR62	5
M30-2.00	26KR82	5
M30-1.50	26KR81	5
M30-1.00	38CJ19	5

Dia./Thread Size	Item No.	Pkg. Qty.
M32-2.00	38CJ20	2
M33-3.50	29DG98	2
M33-2.00	38CJ22	2
M33-1.50	38CJ21	2
M36-4.00	26KR63	2
M36-3.00	38CJ25	2
M36-2.00	38CJ24	2
M36-1.50	38CJ23	2
M38-1.50	38CJ26	1
Class 8 Steel, Hot Dipped Galvanized		
M8-1.25	38CR93	100
M10-1.50	38CR94	100
M12-1.75	38CR95	50
M14-2.00	38CR96	50
M16-2.00	38CR97	50
M18-2.50	38CR98	25
M20-2.50	38CR99	10
M22-2.50	38CT01	10
M24-3.00	38CT02	5
M27-3.00	38CT03	5
M30-3.50	38CT04	5
M33-3.50	38CT05	2
M36-4.00	38CT06	2
Class 6 Steel, Zinc Plated		
M2-0.40	6CA66	100
M2.5-0.45	6CA67	100
M2.6-0.45	6CA68	100
M3-0.50	6CA69	100
M3.5-0.60	6CA70	100
M4-0.70	6CA71	100
M5-0.80	6CA72	100
Class 10 Steel, Zinc Yellow		
M3-0.50	6CA54	100
M4-0.70	6CA55	100
M5-0.80	6CA56	100
M6-1.00	54FJ53	100
M8-1.25	54FJ54	100
M10-1.50	54FJ55	100
M12-1.75	54FJ56	50
M14-2.00	54FJ57	50
M16-2.00	54FJ58	50
M18-2.50	54FJ59	50
M20-2.50	54FJ60	10
M24-3.00	54FJ61	10
M30-3.50	5ZY61	1
M36-4.00	5ZY63	1
Class 10 Steel, Zinc Plated		
M4-0.70	38CU33	100
M5-0.80	38CU34	100
M6-1.00	38CU35	100
M8-1.25	38CU36	100
M10-1.50	38CU37	100
M12-1.75	38CU38	50
M20-2.50	38CU39	10
M24-3.00	38CU40	10

Dia./Thread Size	Item No.	Pkg. Qty.
Class 10 Steel, Plain		
M5-0.80	26KR97	100
M6-1.00	26KR98	100
M6-0.75	29DH29	100
M8-1.25	26KR99	100
M8-1.00	26KT15	100
M10-1.50	26KT01	100
M10-1.25	26KT16	100
M10-1.00	29DH30	100
M12-1.75	26KT02	50
M12-1.50	29DH32	50
M12-1.25	42GD39	600
M12-1.00	29DH31	50
M14-2.00	26KT03	50
M14-1.50	26KT18	50
M16-2.00	26KT04	25
M16-1.50	29DH33	25
M18-2.50	26KT05	25
M18-1.50	42GD43	200
	26KT19	25
M20-2.50	26KT06	10
M20-2.00	26KT20	10
M20-1.50	42GD44	170
M22-2.50	26KT07	10
M22-1.50	29DH34	10
M24-3.00	26KT08	10
M24-2.00	29DH36	10
M24-1.50	29DH35	10
M27-3.00	26KT09	5
M27-2.00	38CV27	5
M27-1.50	29DH37	5
M30-3.50	26KT10	5
M30-2.00	26KT21	5
M30-1.50	29DH38	5
M33-3.50	26KT11	2
M36-4.00	26KT12	2
Class 10 Steel, Black Oxide		
M3-0.50	6CA42	100
M4-0.70	6CA43	100
A4 Stainless Steel, Plain		
M2-0.40	6CA27	50
M2.5-0.45	6CA28	50
M3-0.50	6CA29	50
M4-0.70	6CA31	50
M5-0.80	6CA32	50
M6-1.00	6CA33	50
M8-1.25	6CA34	50
M10-1.50	22YK36	50
M12-1.75	22UK75	25
M14-2.00	22UK76	25
M16-2.00	22UK77	10
M18-2.50	22UK78	10
M20-2.50	22UK79	5
M22-2.50	38EC10	5
M24-3.00	22UK80	5
M27-3.00	29DK27	2

Dia./Thread Size	Item No.	Pkg. Qty.
M30-3.50	22UK81	2
M33-3.50	29DK28	1
M36-4.00	5ZY53	1
A2 Stainless Steel, Plain		
M1.6-0.35	38DZ92	50
M2-0.45	22UK73	50
M2-0.40	22UK72	50
M3-0.50	22UK74	50
M4-0.70	22UK82	50
M5-0.80	22YK31	50
M6-1.00	22YK33	50
M7-1.00	38DZ93	50
M8-1.25	6CA19	50
M10-1.50	22UK61	50
M12-1.75	6CA21	25
M14-2.00	22UK63	25
M16-2.00	6CA23	10
M18-2.50	22UK65	10
M20-2.50	6CA25	5
M22-2.50	26KT22	5
M24-3.00	22UK67	5
M27-3.00	29DJ72	2
M30-3.50	22UK68	2
M33-3.50	26KT23	1
M36-4.00	5ZY51	1

Details on page A1.

Grade 9 Steel Locknuts

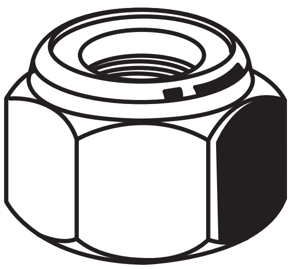
Thread is designed to resist loosening caused by vibration. Right-hand thread direction. Meet ANSI B1.1 standards.

Dia./Thread Size	Item No.	Pkg. Qty.
Top Lock		
Grade 9 Steel Zinc Yellow CR+3		
¼"-20	**452J94**	100
¼"-28	**452K08**	100
5/16"-18	**452J95**	100
5/16"-24	**452K09**	100
⅜"-16	**452J96**	100
⅜"-24	**452K10**	100
7/16"-14	**452J97**	50
7/16"-20	**452K11**	50
½"-13	**452J98**	50
½"-20	**452K12**	50
9/16"-12	**452J99**	25
9/16"-18	**452K13**	25
⅝"-11	**452K01**	25
⅝"-18	**452K14**	25
¾"-10	**452K02**	20
¾"-16	**452K15**	20
⅞"-9	**452K03**	15
⅞"-14	**452K16**	15
1"-8	**452K04**	10
1"-14	**452K17**	10
1⅛"-7	**452K05**	8
1⅛"-12	**452K18**	8
1¼"-7	**452K06**	6
1¼"-12	**452K19**	6
1½"-6	**452K07**	5
1½"-12	**452K20**	5

Thin Hex Locknuts with Nylon Insert

Resist loosening caused by vibration and hold mating parts in any position. Nylon inserts withstand temperatures up to 250°F.

Dia./Thread Size	Item No.	Pkg. Qty.
Heavy Hex Lock Nut		
18-8 Stainless Steel Plain		
#6-32	**22RW35**	50
#8-32	**22RW36**	50
#10-24	**22RW37**	50
#10-32	**4FJE3**	50
¼"-20	**22RV42**	50
	22RV52	50
¼"-28	**4FJE5**	50
5/16"-18	**22RV43**	50
	22RV53	50
5/16"-24	**4FJE7**	50
⅜"-16	**22RV44**	50
	22RV54	50
⅜"-24	**22RW44**	50
7/16"-14	**22RW39**	25
7/16"-20	**22RW45**	25
½"-13	**22RV55**	10
½"-20	**4FJF4**	10
⅝"-11	**22RV45**	10
	22RV56	10
⅝"-18	**22RW46**	10
¾"-10	**22RV46**	5
	22RV57	5
¾"-16	**22RW47**	5
⅞"-9	**22RV47**	5
	22RV58	5
⅞"-14	**22RW48**	5
1"-8	**22RW43**	5
	22RV48	5
1"-14	**22RW49**	5
Grade 2 Steel Plain		
1¾"-5	**4FHZ3**	1
1¾"-12	**4FHZ4**	1
2"-4-1/2	**4FHZ5**	1
2"-12	**4FHZ6**	1
2¼"-12	**4FHZ8**	1
2½"-4	**4FHZ9**	1
Grade 2 Steel Zinc Plated		
#4-40	**4FJH8**	100
#5-40	**4FJH9**	100
#6-32	**4FJJ1**	100
#8-32	**4FJJ2**	100
#10-24	**4FJJ3**	100
¼"-20	**4FAN4**	100
	4FJC4	100
¼"-28	**3HDV5**	100
5/16"-18	**4FAN5**	100
	4FJC5	100
⅜"-16	**4FAN6**	100
	4FJC6	50
⅜"-24	**22RW18**	50
7/16"-14	**22RW13**	25
	4FHY5	25
7/16"-20	**22RW19**	25
½"-13	**4FAN7**	100
	4FJC8	25
½"-20	**22RW20**	25
9/16"-12	**4FJC9**	25
⅝"-11	**22RW14**	10
⅝"-18	**4FAN8**	50
¾"-10	**22RW15**	10
	22RV39	10
¾"-16	**4FAN9**	25
⅞"-9	**4FHY7**	5
	22RV49	5
⅞"-14	**22RW21**	5
1"-8	**22RW17**	5
	4FHY8	5
1"-14	**22RW22**	5
1⅛"-7	**4FJD5**	5
1⅛"-12	**3HDW8**	5
1¼"-7	**22RV40**	5
	22RV50	5
1¼"-12	**22RW23**	5
1½"-6	**22RV41**	5
	22RV51	5
1½"-12	**22RW24**	5
Grade 8 Steel Zinc Plated		
¼"-28	**22RW25**	100
5/16"-24	**22RW26**	100
½"-20	**22RW27**	25
⅝"-18	**22RW28**	10
¾"-16	**22RW29**	10
⅞"-14	**22RW30**	5
1⅛"-12	**22RW32**	5
1¼"-12	**22RW33**	5
1½"-12	**22RW34**	5



Hex Locknuts with Nylon Insert

Resist loosening caused by vibration and hold mating parts in any position. Nylon inserts withstand temperatures up to 250°F.

Note: Bulk quantities of some sizes are available on Grainger.com®.

Dia./Thread Size	Item No.	Pkg. Qty.
Lock Nut		
18-8 Stainless Steel Plain		
#2-56	**3XTP5**	50
#3-48	**3PDF6**	50
#4-40	**22RV91**	50
#5-40	**22RV92**	50
#6-32	**22RV93**	50
#8-32	**22RV94**	50
#10-24	**22RV95**	50
#10-32	**22RW06**	50
#12-24	**3PDG4**	100
¼"-20	**22RV96**	50
¼"-28	**22RW07**	50
5/16"-18	**22RV97**	50
5/16"-24	**22RW08**	50
⅜"-16	**3PDG9**	50
⅜"-24	**3PDH1**	50
7/16"-14	**3PDH2**	25
7/16"-20	**3PDH3**	25
½"-13	**22RV98**	10
½"-20	**22RW09**	10
9/16"-12	**22RV99**	10
9/16"-18	**22RW10**	10
⅝"-11	**3PDH8**	10
⅝"-18	**3PDH9**	10
¾"-10	**3PDJ1**	5
¾"-16	**3PDJ2**	5
⅞"-9	**22RW01**	5
⅞"-14	**22RW11**	5
1"-8	**22RW02**	5
1"-14	**22RW12**	5
1⅛"-7	**22RW03**	2
1¼"-7	**22RW04**	2
1½"-6	**22RW05**	2
316 Stainless Steel Plain		
¼"-20	**1WY55**	50
5/16"-18	**1WY57**	50
⅜"-16	**26LJ13**	50
7/16"-14	**26LJ14**	25
½"-13	**1WY63**	10
⅝"-11	**26LJ17**	10
¾"-10	**26LJ18**	5
A2 Stainless Steel Plain		
M3-0.50	**22RW64**	50
M4-0.70	**26WC50**	50
M5-0.80	**26WC51**	50
M6-1.00	**26WC52**	50
M8-1.25	**6CB72**	50
M10-1.50	**22RW65**	50
M12-1.75	**22RW66**	25
M14-2.00	**22RW67**	25
M16-2.00	**22RW68**	10
M18-2.50	**22RW69**	10
M20-2.50	**22RW70**	5
M24-3.00	**22RW71**	5
M30-3.50	**22RW72**	2
M36-4.00	**5ZY75**	1
A4 Stainless Steel Plain		
M3-0.50	**6CB80**	50
M4-0.70	**6CB81**	50
M5-0.80	**6CB82**	50
M6-1.00	**6CB83**	50
M8-1.25	**6CB84**	50
M10-1.50	**22RW73**	50
M12-1.75	**22RW74**	25
M14-2.00	**22RW75**	25
M16-2.00	**22RW76**	10
M18-2.50	**22RW77**	10
M20-2.50	**22RW78**	5
M24-3.00	**22RW79**	5
M30-3.50	**22RW80**	2
M36-4.00	**5ZY79**	1
Brass Plain		
¼"-20	**4FHX1**	25
5/16"-18	**4FHX2**	25
⅜"-16	**4FHX3**	10
½"-13	**4FHX4**	5
⅝"-11	**4FHX5**	1
¾"-10	**4FHX6**	1
Class 5 Steel Zinc Plated		
M3-0.50	**4CAF9**	100
M4-0.70	**4CAG1**	100
M5-0.80	**4CAG2**	100
M6-1.00	**4CAG3**	100
M7-1.00	**4CAG4**	100
M8-1.25	**4CAG5**	100
M10-1.50	**22RW50**	100
M10-1.25	**22RW55**	100
M12-1.50	**22RW58**	50
M12-1.25	**22RW57**	50
M12-1.00	**22RW56**	50
M14-2.00	**22RW51**	50
M14-1.50	**22RW59**	50
M16-2.00	**4CAG9**	25
M16-1.50	**22RW60**	25
M18-2.50	**4CAH1**	25
M20-2.50	**22RW52**	10
Class 8 Steel Zinc Plated		
M24-3.00	**22RW61**	10
M27-3.00	**22RW62**	5
M30-3.50	**22RW63**	5
Grade 2 Steel Zinc Plated		
#2-56	**4FHW7**	100
#3-48	**4FHW8**	100
#4-40	**4EFX4**	100
#6-32	**3HDT6**	100
#8-32	**3HDT7**	100
#10-32	**3HDT9**	100
¼"-20	**3HDU1**	100
¼"-28	**3HDU2**	100
5/16"-18	**3XTK3**	100
5/16"-24	**3HDU3**	100
⅜"-16	**26LH69**	50
⅜"-24	**26LH78**	50
7/16"-14	**22RV61**	25
7/16"-20	**22RV66**	25
½"-13	**22RV62**	25
½"-20	**22RV67**	25
9/16"-12	**12P608**	25
9/16"-18	**12P609**	25
⅝"-11	**22RV63**	10
⅝"-18	**22RV68**	10
¾"-10	**22RV64**	10
¾"-16	**26LH80**	10
⅞"-9	**22RV65**	5
⅞"-14	**26LH81**	5
1"-8	**3HDV3**	5
1"-14	**3HDV4**	5
1⅛"-7	**4FAN1**	1
1¼"-7	**4FAN2**	1
1½"-6	**4FAN3**	1
Grade 5 Steel Zinc Plated		
7/16"-14	**22RV69**	25
7/16"-20	**22RV72**	25
½"-13	**22RV70**	25
½"-20	**22RV73**	25
¾"-10	**22RV71**	10
¾"-16	**22RV74**	10
Grade 8 Steel Black Oxide		
¼"-28	**4FHT7**	100
5/16"-18	**4FHT8**	100
5/16"-24	**4FHT9**	100
⅜"-16	**26LH91**	50
⅜"-24	**26LH96**	50
7/16"-14	**22RV75**	25
7/16"-20	**22RV83**	25
½"-13	**22RV76**	25
½"-20	**22RV84**	25
9/16"-12	**12P629**	25
9/16"-18	**12P630**	25
⅝"-18	**26LH97**	10
1⅛"-7	**22RV77**	5
1⅛"-12	**22RV85**	5
1¼"-7	**22RV78**	5
1¼"-12	**22RV86**	5
1½"-6	**22RV79**	5
1½"-12	**22RV87**	5
Grade 8 Steel Plain		
¼"-20	**4FHT6**	100
⅝"-11	**26LH95**	10
1⅜"-6	**4FHW3**	1
1⅜"-12	**4FHW4**	1
Grade 8 Steel Zinc Yellow		
¼"-20	**3HDR5**	100
¼"-28	**4FAH8**	100
5/16"-18	**3HDR6**	100
5/16"-24	**4FAH9**	100
⅜"-16	**26LH88**	50
⅜"-24	**26LH98**	50
⅝"-11	**26LH92**	10
⅝"-18	**26LJ03**	10
1⅛"-7	**22RV80**	5
1⅛"-12	**22RV88**	5
1¼"-7	**22RV81**	5
1¼"-12	**22RV89**	5
1⅜"-6	**3HDT3**	1
1⅜"-12	**3HDT4**	1
1½"-6	**22RV82**	5
1½"-12	**22RV90**	5

Hex Locknuts with Washer

Captive washers eliminate need for a separate washer component and make installation easy.

Dia./ Thread Size	Flange Dia.	Item No.	Pkg. Qty.
Nylon Insert Lock Nut			
18-8 Stainless Steel Plain			
½"-13	—	**4EFX6**	1
Grade 2 Steel Zinc Plated			
¼"-20	—	**4EFX7**	100
5⁄16"-18	—	**4EFX8**	100
⅜"-16	—	**4EFX9**	50
½"-13	—	**4EFY1**	25
⅝"-11	—	**4EFY2**	10
Self Locking Flange Nut - Serrated			
18-8 Stainless Steel Plain			
½"-13	1.0313 in	**4CAN2**	10
Grade 2 Steel Zinc Plated			
¼"-28	0.5781 in	**4CAN3**	100
5⁄16"-24	0.6563 in	**4CAN4**	100
⅜"-24	0.7344 in	**4CAN5**	100
7⁄16"-20	0.9375 in	**4CAN6**	50
½"-20	1.0313 in	**4CAN7**	25
Serrated Lock Nut			
18-8 Stainless Steel Plain			
⅜"-16	0.7344 in	**4EGA7**	25
Tooth Washer Lock Nut			
#4-40	0.2813 in	**4EFY4**	100
#6-32	0.3438 in	**4EFY5**	100
#8-32	0.375 in	**4EFY6**	100
#10-24	0.4063 in	**4EFY7**	100
#10-32	0.4063 in	**4EFY8**	100
¼"-20	0.5 in	**4EFY9**	50
	0.5781 in	**4EGA5**	50
¼"-28	0.5 in	**4CAJ6**	50
5⁄16"-18	0.5781 in	**4EFZ1**	25
	0.6563 in	**4EGA6**	25
5⁄16"-24	0.5781 in	**4EFZ2**	25
⅜"-16	0.6563 in	**4CAJ7**	25
⅜"-24	0.6563 in	**4CAJ8**	20
A2 Stainless Steel Plain			
M3-0.50	6.5 mm	**4EFZ9**	50
M4-0.70	8.2 mm	**4CAK5**	50
M5-0.80	9.5 mm	**4CAK6**	50
M6-1.00	11.5 mm	**4EGA1**	50
M8-1.25	15.0 mm	**4CAK7**	50
Class 5 Steel Zinc Plated			
M6-1.00	11.5 mm	**4CAK8**	100
M8-1.25	15.0 mm	**4CAK9**	50
Class 8 Steel Zinc Plated			
M3-0.50	6.5 mm	**4EGA2**	100
M4-0.70	8.2 mm	**4EGA3**	100
M5-0.80	9.5 mm	**4EGA4**	100
Grade 2 Steel Zinc Plated			
#4-40	0.0938 in	**4EFZ3**	100
#6-32	0.0938 in	**4EFZ4**	100
#8-32	0.375 in	**4EFZ5**	100
#10-24	0.4063 in	**4EFZ6**	100
¼"-28	0.5 in	**4CAJ9**	100
5⁄16"-18	0.5781 in	**4CAK1**	100
5⁄16"-24	0.5781 in	**4CAK2**	100
⅜"-16	0.6563 in	**4CAK3**	100
⅜"-24	0.6563 in	**4CAK4**	100
Steel Zinc Plated			
#10-32	0.4063 in	**4EFZ7**	100
¼"-20	0.5 in	**4EFZ8**	100

Hex Flange Locknuts

Provide vibration resistance and increased load over a wider bearing surface.

Dia./Thread Size	Item No.	Pkg. Qty.
Nylon Insert Lock Nut - Flanged		
Grade 2 Steel Zinc Plated		
#10-24	**4CAN8**	100
#10-32	**4CAN9**	100
¼"-20	**4CAP1**	100
5⁄16"-18	**4CAP2**	100
⅜"-16	**4CAP3**	50
½"-13	**4CAP4**	25
¾"-10	**4CAP6**	5
Grade 8 Steel Zinc Plated		
¼"-20	**4CAP7**	100
⅜"-16	**4CAP9**	50
½"-13	**4CAR1**	25
⅝"-11	**4CAR2**	10
¾"-10	**4CAR3**	5
Grade 8 Steel Zinc Yellow		
5⁄16"-18	**4CAP8**	100
Self Locking Flange Nut - Serrated		
18-8 Stainless Steel Plain		
#6-32	**41MG57**	50
#8-32	**41MG58**	50
#10-24	**41MG59**	50
#10-32	**41MG64**	25
¼"-20	**41MG60**	50
5⁄16"-18	**41MG61**	50
5⁄16"-24	**41MG65**	25
⅜"-16	**41MG62**	25
⅜"-24	**41MG66**	10
½"-13	**41MG63**	25
316 Stainless Steel Plain		
#10-24	**41MG67**	10
¼"-20	**41MG68**	10
5⁄16"-18	**41MG69**	10
⅜"-16	**41MG70**	5
Grade 2 Steel Zinc Plated		
#12-24	**15D981**	50
¼"-20	**3HDX2**	100
5⁄16"-18	**3HDX3**	100
⅜"-16	**3HDX4**	100
7⁄16"-14	**3HDX5**	50
⅝"-11	**3HDX6**	25
Grade 8 Steel Black Oxide		
¼"-20	**41MG42**	100
5⁄16"-18	**41MG43**	100
⅜"-16	**41MG44**	100
½"-13	**41MG45**	50
⅝"-11	**41MG46**	25
¾"-10	**41MG47**	10
Grade A Steel Zinc Plated		
#6-32	**41MG28**	100
#8-32	**41MG29**	100
#10-24	**41MG30**	100
#12-24	**41MG31**	100
¼"-20	**41MG32**	100
¼"-28	**41MG50**	100
5⁄16"-18	**41MG33**	100
5⁄16"-24	**41MG51**	100
⅜"-16	**41MG34**	100
⅜"-24	**41MG52**	100
7⁄16"-14	**41MG35**	50
7⁄16"-20	**41MG53**	50
½"-13	**41MG36**	50
½"-20	**41MG54**	50
9⁄16"-12	**41MG37**	25
⅝"-11	**41MG38**	25
⅝"-18	**41MG55**	25
¾"-10	**41MG39**	10
¾"-16	**41MG56**	10
⅞"-9	**41MG40**	10

Top Lock

Deformed Thread Lock Nut

Steel Deformed Thread Locknuts

Feature irregular internal threads that lock onto mating threads of a bolt or rod and prevent rotation or loosening.

Dia./Thread Size	Item No.	Pkg. Qty.
Top Lock Flange Nut		
Grade C Steel Phosphate and Oil		
⅜"-16	**4CAL7**	50
½"-13	**4CAL8**	25
⅝"-11	**22RV38**	10
¾"-10	**4CAN1**	10
Top Lock		
Class 8 Steel Zinc Plated		
M8-1.25	**4CAL1**	50
M10-1.50	**4CAL2**	25
M12-1.75	**4CAL3**	25
M14-2.00	**4CAL4**	10
M16-2.00	**4CAL5**	20
M20-2.50	**4CAL6**	10
Grade C Steel Zinc Plated		
⅜"-16	**26LH07**	50
⅜"-24	**26LH29**	50
7⁄16"-14	**26LH08**	25
7⁄16"-20	**26LH30**	25
½"-20	**26LH31**	25
9⁄16"-12	**12P601**	25
9⁄16"-18	**12P602**	25
⅝"-11	**26LH11**	10
⅝"-18	**26LH33**	10
¾"-10	**26LH12**	10
¾"-16	**26LH34**	10
⅞"-9	**26LH13**	5
⅞"-14	**26LH35**	5
1"-8	**12P603**	5
1"-14	**12P604**	5
Grade C Steel Zinc Yellow		
¼"-20	**4FAR9**	100
¼"-28	**4FAU1**	100
	4FAW3	100
5⁄16"-18	**4FAU2**	100
5⁄16"-24	**4FAW5**	100
⅜"-16	**4FAW6**	100
⅜"-24	**4FAW7**	100
7⁄16"-14	**4FAW8**	50
7⁄16"-20	**4FAW9**	50
½"-13	**4FAX1**	50
½"-20	**4FAX2**	50
9⁄16"-12	**4FAX3**	25
9⁄16"-18	**4FAX4**	25
⅝"-11	**3XTN9**	25
⅝"-18	**4FAX5**	25
¾"-10	**3XTP1**	20
¾"-16	**4FAX6**	20
⅞"-9	**3XTP2**	10
⅞"-14	**4FAX7**	10
1"-8	**3XTP3**	10
1"-14	**3XTP4**	10
Reversible Lock Nut		
Grade A Steel Zinc Plated		
¼"-20	**4FAP1**	100
¼"-28	**4FAP2**	100
5⁄16"-18	**4FAP3**	100
5⁄16"-24	**4FAP4**	100
⅜"-16	**4FAP5**	100
⅜"-24	**4FAP6**	100
7⁄16"-14	**4FAP7**	100
7⁄16"-20	**4FAP8**	100
½"-13	**4FAP9**	50
½"-20	**4FAR1**	50
9⁄16"-12	**4FAR2**	50
⅝"-11	**4FAR3**	25
⅝"-18	**4FAR4**	25
¾"-10	**4FAR5**	25
¾"-16	**4FAR6**	25
⅞"-9	**4FAR7**	25
1"-8	**4FAR8**	10

DISC-LOCK INTERNATIONAL

Hex Locknuts and Safety Wheel Nuts

- Carbon steel

Interlocking cams form a vibration- and shock-proof, free-spinning 1-pc. locking nut assembly that holds tight under forces that cause other locknuts to come loose. Can be used with Grade 5 (Class 8.8), Grade 8 (Class 10.9), and stronger bolts.

Dia./ Thread Size	Washer O.D.	Item No.	Pkg. Qty.
Heavy Hex Lock Nut			
½"-13	1.045"	**36RM15**	50
⅝"-11	1.265"	**36RM16**	50
¾"-10	1.495"	**36RM17**	20
⅞"-9	1.735"	**36RM18**	20
Safety Wheel Lock Nut			
¾"-16	1.880"	**36RM19**	10
⅞"-14	2.000"	**36RM20**	10
M18-1.50	47.5mm	**36RM21**	10
M20-2.50	47.5mm	**36RM23**	10
M20-1.50	47.5mm	**36RM22**	10
M22-1.50	52mm	**36RM24**	10
Wedge Lock Nut			
⅜"-16	0.787"	**36RM07**	50
⅜"-24	0.787"	**36RM08**	50
7⁄16"-20	1.000"	**36RM09**	50
½"-13	1.000"	**36RM11**	50
½"-20	1.000"	**36RM10**	50
9⁄16"-18	1.230"	**36RM12**	50
⅝"-11	1.230"	**36RM13**	50
⅝"-18	1.230"	**36RM14**	50
M10-1.50	20mm	**36RM02**	50
M12-1.75	25mm	**36RM03**	50
M14-1.50	32mm	**36RM04**	50
M16-2.00	32mm	**36RM06**	50
M16-1.50	32mm	**36RM05**	50

Coupling Nuts

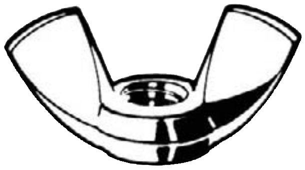
Note: Left-hand threaded coupling nuts are available on Grainger.com®.

Dia./ Thread Size	L	Item No.	Pkg. Qty.
Coupling Nut			
18-8 Stainless Steel Plain			
#8-32	5/8 in	**1HY18**	5
#10-24	3/4 in	**1HY20**	5
#10-32	3/4 in	**1HY22**	5
1/4"-20	7/8 in	**1HY24**	10
1/4"-28	7/8 in	**1HY26**	5
5/16"-18	7/8 in	**1HY28**	5
5/16"-24	7/8 in	**1HY30**	5
3/8"-16	1 1/8 in	**1HY32**	5
	1 3/4 in	**1HY34**	2
3/8"-24	1 1/8 in	**1HY36**	5
7/16"-14	1 1/4 in	**1HY38**	5
7/16"-20	1 1/4 in	**1HY40**	5
1/2"-13	1 1/4 in	**1HY42**	5
	1 3/4 in	**1HY44**	2
1/2"-20	1 1/4 in	**1HY46**	2
5/8"-11	2 1/8 in	**1HY48**	2
5/8"-18	2 1/8 in	**1HY50**	2
3/4"-10	2 1/4 in	**1HY52**	2
3/4"-16	2 1/4 in	**1HY54**	2
7/8"-9	2 1/2 in	**1HY56**	1
1"-8	2 1/2 in	**1HY58**	1
M4-7.00	11 mm	**1JB99**	1
M6-1.00	38 mm	**1JE11**	1
M8-1.25	38 mm	**1JE13**	1
M10-1.50	38 mm	**1JE15**	1
M12-1.75	38 mm	**1JE17**	1
M16-2.00	54 mm	**1JE19**	1
M20-2.50	57 mm	**1JE21**	1
316 Stainless Steel Plain			
1/4"-20	7/8 in	**1HU94**	2
3/8"-16	1 1/8 in	**1HU96**	2
1/2"-13	1 1/4 in	**1HU98**	2
5/8"-11	2 1/8 in	**1HY10**	2
3/4"-10	2 1/4 in	**1HY12**	2
7/8"-9	2 1/2 in	**1HY14**	1
1"-8	2 1/2 in	**1HY16**	1
Class 5.8 Steel Zinc Chromate			
M4-0.07	11 mm	**1JE23**	1
M6-1.00	38 mm	**1JE25**	10
M8-1.25	38 mm	**1JE27**	10
M10-1.50	38 mm	**1JE29**	10
M12-1.75	38 mm	**1JE31**	10
M16-2.00	54 mm	**1JE33**	1
M20-2.50	57 mm	**1JE35**	1
Grade 2 Steel Zinc Chromate			
#4-40	7/16 in	**1JA43**	10
#6-32	1/2 in	**1JA45**	10
#8-32	5/8 in	**1JA47**	10
#10-24	3/4 in	**1JA49**	10
#10-32	3/4 in	**1JA51**	10
1/4"-20	7/8 in	**1JA53**	10
	1 1/2 in	**1JA55**	10
1/4"-28	7/8 in	**1JA57**	10
5/16"-18	7/8 in	**1JA59**	10
	1 3/4 in	**1JA61**	10
5/16"-24	7/8 in	**1JA63**	10
3/8"-16	1 1/8 in	**1JA65**	10
	1 3/4 in	**1JA67**	10
	4 in	**1JA69**	2
3/8"-24	1 1/8 in	**1JA71**	10
7/16"-14	1 3/4 in	**1JA73**	10
7/16"-20	1 3/4 in	**1JA75**	10
1/2"-13	1 3/4 in	**1JA77**	10
	1 3/4 in	**1JA79**	10
	4 in	**1JA81**	2
1/2"-20	1 3/4 in	**1JA83**	5
9/16"-12	2 1/8 in	**1JA85**	5
9/16"-18	2 1/8 in	**1JA87**	5
5/8"-11	2 1/8 in	**1JA89**	10
	2 1/8 in	**1JA91**	2
	5 in	**1JA93** †	2
5/8"-18	2 1/8 in	**1JA95**	5
3/4"-10	1 1/2 in	**1JA97**	5
	2 1/4 in	**1JA99**	5
	2 1/4 in	**1JB11**	2
	3 in	**1JB13**	2
	5 in	**1JB15** †	2
3/4"-16	2 1/4 in	**1JB17**	5
7/8"-9	2 1/2 in	**1JB19**	5
	7 in	**1JB21** †	1
7/8"-14	2 1/2 in	**1JB23**	2
1"-8	2 3/4 in	**1JB25**	2
	3 in	**1JB27**	2
	7 in	**1JB29** †	1
1"-14	2 3/4 in	**1JB31**	2
1 1/4"-7	3 in	**1JB33**	2
1 1/4"-12	3 in	**1JB35**	1
1 1/2"-6	3 1/2 in	**1JB37**	1
1 1/2"-12	3 1/2 in	**1JB39**	1
1 3/4"-5	5 in	**1JB41**	1
Grade 5 Steel Zinc Chromate			
#8-32	5/8 in	**1HY90**	4
#10-24	3/4 in	**1HY92**	4
#10-32	3/4 in	**1HY94**	4
1/4"-20	7/8 in	**1HY96**	5
1/4"-28	7/8 in	**1HY97**	5
5/16"-18	1 1/8 in	**1HY99**	5
5/16"-24	1 1/8 in	**1JA12**	5
3/8"-16	1 3/4 in	**1JA14**	5
3/8"-24	1 3/4 in	**1JA16**	5
7/16"-14	1 3/4 in	**1JA18**	5
7/16"-20	1 3/4 in	**1JA20**	5
1/2"-13	1 3/4 in	**1JA22**	5
1/2"-20	1 3/4 in	**1JA24**	4
5/8"-11	2 1/8 in	**1JA26**	2
5/8"-18	2 1/8 in	**1JA28**	2
3/4"-10	2 1/4 in	**1JA30**	2
3/4"-16	2 1/4 in	**1JA31**	2
7/8"-9	2 1/2 in	**1JA33**	2
1"-8	2 3/4 in	**1JA35**	2
1 1/8"-7	3 in	**1JA37**	2
1 1/4"-7	3 in	**1JA39**	2
1 1/2"-6	3 1/2 in	**1JA41**	1
Grade 8 Steel Zinc Chromate			
1/4"-20	7/8 in	**1HY72**	2
3/8"-16	1 3/4 in	**1HY74**	2
1/2"-13	1 3/4 in	**1HY76**	2
5/8"-11	2 1/8 in	**1HY78**	2
3/4"-10	2 1/4 in	**1HY80**	2
7/8"-9	2 1/2 in	**1HY82**	1
1"-8	2 3/4 in	**1HY84**	1
1 1/4"-7	3 in	**1HY86**	1
1 1/2"-6	3 1/2 in	**1HY88**	1
Coupling Nut - Tapped Oversized			
Grade 2 Steel Hot Dipped Galvanized			
3/8"-16	1 3/4 in	**1JB45**	5
7/16"-14	1 3/4 in	**1JB47**	5
1/2"-13	1 3/4 in	**1JB49**	5
5/8"-11	2 1/8 in	**1JB51**	5
3/4"-10	2 1/4 in	**1JB53**	2
	3 in	**1JB55**	2
7/8"-9	2 1/2 in	**1JB57**	2
1"-8	2 3/4 in	**1JB59**	2
	3 in	**1JB61**	2
1 1/4"-7	3 in	**1JB65**	2
1 1/2"-6	3 1/2 in	**1JB67**	2

† Partially threaded.

Acorn Nuts

Dia./ Thread Size	Height	Thread Depth	Item No.	Pkg. Qty.
Cap Nut				
18-8 Stainless Steel Plain				
#4-40	1/4 in	5/32 in	**6RA39**	25
#6-32	11/32 in	5/32 in	**6RA40**	25
#8-32	11/32 in	5/32 in	**6RA41**	25
#10-24	13/32 in	3/16 in	**6RA42**	25
#10-32	13/32 in	3/16 in	**6RA43**	25
#12-24	13/32 in	3/16 in	**6RA44**	25
1/4"-20	15/32 in	1/4 in	**6RA45**	25
	19/32 in	5/16 in	**6RA46**	10
1/4"-28	15/32 in	1/4 in	**6RA47**	25
316 Stainless Steel Plain				
#4-40	1/4 in	5/32 in	**6RA24**	5
#6-32	11/32 in	5/32 in	**6RA25**	5
#8-32	11/32 in	5/32 in	**6RA26**	5
#10-24	13/32 in	3/16 in	**6RA27**	5
#10-32	13/32 in	3/16 in	**6RA28**	5
#12-24	13/32 in	7/32 in	**38C933**	5
1/4"-20	15/32 in	1/4 in	**6RA29**	1
1/4"-28	15/32 in	1/4 in	**6RA30**	1
5/16"-18	17/32 in	5/16 in	**6RA31**	1
5/16"-24	17/32 in	5/16 in	**6RA32**	1
3/8"-16	5/8 in	3/8 in	**6RA33**	1
3/8"-24	5/8 in	3/8 in	**6RA34**	1
1/2"-13	13/16 in	1/2 in	**6RA35**	1
1/2"-20	13/16 in	1/2 in	**6RA36**	1
5/8"-11	1 in	5/8 in	**6RA37**	1
5/8"-18	1 in	5/8 in	**38C936**	1
3/4"-10	1 5/32 in	3/4 in	**6RA38**	1
3/4"-16	1 5/32 in	3/4 in	**38C937**	1
7/8"-9	1 23/64 in	7/8 in	**38C938**	1
7/8"-14	1 23/64 in	7/8 in	**38C939**	1
1"-8	1 35/64 in	1 in	**38C940**	1
A2 Stainless Steel Plain				
M3-0.50	6.0 mm	4.0 mm	**6CB92**	10
M4-0.70	8.0 mm	5.7 mm	**6CB93**	25
M5-0.80	10.0 mm	7.8 mm	**6CB94**	25
M6-1.00	12.0 mm	8.3 mm	**6CB95**	20
M8-1.25	15.0 mm	11.4 mm	**6CB96**	10
M10-1.50	18.0 mm	13.4 mm	**6CB97**	5
M12-1.75	22.0 mm	16.4 mm	**6CB98**	5
M14-2.00	25.0 mm	18.4 mm	**6CB99**	1
M16-2.00	28.0 mm	21.4 mm	**6CE10**	1
M20-2.50	34.0 mm	26.4 mm	**6CE11**	1
Class 6 Steel Zinc Plated				
M3-0.50	6.5 mm	2.5 mm	**53GH15**	100
M6-1.00	12.0 mm	5.0 mm	**53GH16**	100
M8-1.25	15.0 mm	6.5 mm	**53GH17**	100
Grade 2 Steel Zinc Plated				
#4-40	1/4 in	5/32 in	**6NU97**	50
#6-32	11/32 in	5/32 in	**6NU98**	50
#8-32	11/32 in	5/32 in	**6NU99**	50
#10-24	13/32 in	3/16 in	**6NY10**	50
#10-32	13/32 in	3/16 in	**6NY11**	50
#12-24	13/32 in	7/32 in	**38D035**	25
1/4"-20	15/32 in	1/4 in	**6NY12**	25
1/4"-28	15/32 in	1/4 in	**6NY13**	25
5/16"-18	17/32 in	5/16 in	**6NY14**	25
5/16"-24	17/32 in	5/16 in	**6NY15**	25
3/8"-16	5/8 in	3/8 in	**6NY16**	25
3/8"-24	5/8 in	3/8 in	**6NY17**	25
7/16"-14	11/16 in	7/16 in	**6NY18**	20
7/16"-20	11/16 in	7/16 in	**6NY19**	20
1/2"-13	13/16 in	1/2 in	**6NY20**	10
1/2"-20	13/16 in	1/2 in	**6NY21**	10
5/8"-11	1 in	5/8 in	**6NY22**	5
5/8"-18	1 in	5/8 in	**6NY23**	5
3/4"-10	1 5/32 in	3/4 in	**6NY24**	5
3/4"-16	1 5/32 in	3/4 in	**6NY25**	5
1"-8	1 35/64 in	1 in	**6NY26**	1
Steel Nickel Plated				
#6-32	11/32 in	5/32 in	**1XA10**	100
#8-32	11/32 in	5/32 in	**1XA11**	100
#10-24	13/32 in	3/16 in	**1XA12**	100
#10-32	13/32 in	3/16 in	**1XA13**	100
1/4"-20	15/32 in	7/32 in	**1XA14**	100
5/16"-18	17/32 in	1/4 in	**1XA15**	50
3/8"-16	5/8 in	9/32 in	**1XA16**	50
1/2"-13	13/16 in	3/8 in	**1XA17**	25
5/8"-11	1 in	15/32 in	**1XA18**	10
High Crown Cap Nut				
Class 6 Low Carbon Steel Zinc Plated				
M10-1.50	18.0 mm	8.0 mm	**38DK43**	50
M12-1.75	22.0 mm	10.0 mm	**38DK44**	50
Self-Locking Cap Nut				
18-8 Stainless Steel Plain				
#6-32	11/32 in	5/32 in	**6RA51**	20
#8-32	11/32 in	5/32 in	**6RA52**	20
#10-24	13/32 in	3/16 in	**6RA53**	20
#10-32	13/32 in	3/16 in	**6RA54**	20
1/4"-20	15/32 in	1/4 in	**6RA55**	10
1/4"-28	15/32 in	1/4 in	**6RA56**	10
5/16"-18	17/32 in	5/16 in	**6RA57**	10
5/16"-24	17/32 in	5/16 in	**6RA58**	10
3/8"-16	5/8 in	3/8 in	**6RA59**	5
3/8"-24	5/8 in	3/8 in	**6RA60**	5
1/2"-13	13/16 in	1/2 in	**6RA63**	1
1/2"-20	13/16 in	1/2 in	**6RA64**	1
5/8"-11	1 in	5/8 in	**6RA61**	1
3/4"-10	1 5/32 in	3/4 in	**6RA62**	1



Wing Nuts

Note: Bulk packaging also available on Grainger.com®, search for "bulk wing nuts".

Dia./ Thread Size	Wing Span	Item No.	Pkg. Qty.
Wing Nut			
Nylon			
#4-40	0.91 in	**4AGN5**	10
#6-32	0.91 in	**4AGN4**	10
#8-32	0.91 in	**4AGN3**	10
#10-24	0.91 in	**4AGL3**	10
#10-32	0.91 in	**4AGN1**	10
1/4"-20	1.36 in	**4AGL9**	10
1/4"-28	1.36 in	**4AGL4**	10
3/8"-16	1.37 in	**4AGN2**	10
7/16"-14	1.77 in	**4AGN7**	5
1/2"-13	1.77 in	**4AGN6**	5
M4-0.70	22.8 mm	**4AGL8**	10
M5-0.80	22.8 mm	**4AGL7**	10
M6-1.00	28.0 mm	**4AGL6**	10
M8-1.25	35.1 mm	**4AGL5**	10
Wing Nut Nylon Insert			
Zinc Alloy			
#8-32	1.03 in	**4CAR4**	25
#10-24	1.03 in	**4CAR5**	25
1/4"-20	1.25 in	**4CAR7**	20
1/4"-28	1.25 in	**4CAR8**	20
5/16"-18	1.5 in	**4CAR9**	20
5/16"-24	1.5 in	**4CAT1**	20
3/8"-16	1.5 in	**4CAT2**	20
Wing Nut Type A-Cold Forged			
Brass			
#6-32	0.59 to 0.91 in	**41VA40**	50
#8-32	0.78 to 0.91 in	**41VA41**	50
#10-24	0.78 to 0.91 in	**41VA42**	25
#10-32	0.78 to 0.91 in	**41VA49**	25
1/4"-20	0.97 to 1.10 in	**41VA43**	25
1/4"-28	0.97 to 1.10 in	**41VA50**	25
5/16"-18	1.12 to 1.25 in	**41VA44**	10
5/16"-24	1.12 to 1.25 in	**41VA51**	10
3/8"-16	1.31 to 1.44 in	**41VA45**	10
1/2"-13	1.81 to 1.94 in	**41VA46**	5
5/8"-11	2.62 to 2.76 in	**41VA47**	1
3/4"-10	2.62 to 2.76 in	**41VA48**	1
Steel			
#6-32	0.59 to 0.91 in	**41VA20**	100
#8-32	0.78 to 0.91 in	**41VA21**	100
#10-24	0.78 to 0.91 in	**41VA22**	100
#10-32	0.78 to 0.91 in	**41VA30**	100
1/4"-20	0.97 to 1.10 in	**41VA23**	50
1/4"-28	0.97 to 1.10 in	**41VA31**	50
5/16"-18	1.12 to 1.25 in	**41VA24**	25
5/16"-24	1.12 to 1.25 in	**41VA32**	25
3/8"-16	1.31 to 1.44 in	**41VA25**	25
3/8"-24	1.31 to 1.44 in	**41VA33**	25
7/16"-14	1.81 to 1.94 in	**41VA26**	10
1/2"-13	1.81 to 1.94 in	**41VA27**	5
5/8"-11	2.62 to 2.76 in	**41VA28**	5
3/4"-10	2.62 to 2.76 in	**41VA29**	1
18-8 Stainless Steel			
#6-32	0.59 to 0.91 in	**41VA52**	25
#8-32	0.78 to 0.91 in	**41VA53**	25
#10-24	0.78 to 0.91 in	**41VA54**	10
#10-32	0.78 to 0.91 in	**41VA62**	10
1/4"-20	0.97 to 1.10 in	**41VA55**	10
1/4"-28	0.97 to 1.10 in	**41VA63**	10
5/16"-18	1.12 to 1.25 in	**41VA56**	5
5/16"-24	1.12 to 1.25 in	**41VA64**	5
3/8"-16	1.31 to 1.44 in	**41VA57**	5
3/8"-24	1.31 to 1.44 in	**41VA65**	5
7/16"-14	1.81 to 1.94 in	**41VA58**	5
1/2"-13	1.81 to 1.94 in	**41VA59**	5
5/8"-11	2.62 to 2.76 in	**41VA60**	1
3/4"-10	2.62 to 2.76 in	**41VA61**	1
316 Stainless Steel			
#10-24	0.78 to 0.91 in	**41VA66**	5
1/4"-20	0.97 to 1.10 in	**41VA67**	5
5/16"-18	1.12 to 1.25 in	**41VA68**	5
3/8"-16	1.31 to 1.44 in	**41VA69**	1
7/16"-14	1.81 to 1.94 in	**41VA70**	1
1/2"-13	1.81 to 1.94 in	**41VA71**	1
Wing Nut Type D-Stamped			
Steel			
#6-32	0.72 to 0.78 in	**41VA34**	100
#8-32	0.72 to 0.78 in	**41VA35**	100
#10-24	0.85 to 0.91 in	**41VA36**	100
1/4"-20	1.05 to 1.11 in	**41VA37**	50
5/16"-18	1.24 to 1.30 in	**41VA38**	25
3/8"-16	1.34 to 1.41 in	**41VA39**	25

J-Style

U-Style

Rectangular

Cage Style

Spring Nuts

Steel construction with Black Phosphate finish, except where noted.

J-Style and U-Style— Reduce assembly time by eliminating welding and riveting.

Rectangular—For use with threaded screws and studs.

Cage Style—Nuts are well suited to blind-sided applications. Zinc finish.

Thread Size	For Panel Thickness	J STYLE Center of Hole to Panel Edge	J STYLE Item No.	J STYLE Pkg. Qty.	U STYLE Center of Hole to Panel Edge	U STYLE Item No.	U STYLE Pkg. Qty.
For Machine Screws							
6-32	0.025 to 0.040 in	0.218 in	**1LAT7**	50	0.218 in	**1LBB3**	50
		0.468 in	**1LAT8**	50	0.468 in	**1LBB4**	50
	0.045 to 0.062 in	0.218 in	**1LAT9**	50	0.218 in	**1LBB5**	50
		0.296 in	**1LAV1**	50	0.296 in	**1LBB6**	50
		—	—	—	0.468 in	**1LBB7**	50
8-32	0.025 to 0.040 in	0.514 in	**1LAV3**	50	—	—	—
		0.234 in	**1LAV2**	50	0.234 in	**1LBB8**	50
	0.045 to 0.062 in	0.514 in	**1LAV5**	50	0.328 in	**1LBC1**	50
		0.234 in	**1LAV4**	50	0.234 in	**1LBB9**	50
		—	—	—	0.515 in	**1LBC3**	50
10-24	0.025 to 0.040 in	0.203 in	**1LAV6**	50	0.203 in	**1LBC4**	50
		—	—	—	0.562 in	**1LBC7**	50
	0.045 to 0.062 in	0.562 in	**1LAV8**	50	0.359 in	**1LBC6**	50
		0.203 in	**1LAV7**	50	0.25 in	**1LBC5**	50
		—	—	—	0.562 in	**1LBC8**	50
10-32	0.025 to 0.040 in	0.203 in	**1LAV9**	50	—	—	—
For Sheet Metal and Thread Forming Screws							
#6	0.025 to 0.040 in	0.218 in	**1LAZ1**	50	0.218 in	**1LBC9**	50
		0.468 in	**1LAZ2**	50	0.468 in	**1LBD1**	50
	0.045 to 0.062 in	0.218 in	**1LAZ3**	50	0.218 in	**1LBD2**	50
#8	0.025 to 0.040 in	0.515 in	**1LAZ5**	50	0.515 in	**1LBD4**	50
	0.025 to 0.045 in	0.234 in	**1LAZ4**	50	0.234 in	**1LBD3**	50
	0.045 to 0.062 in	0.234 in	**1LAZ6**	50	0.234 in	**1LBD5**	50
		0.515 in	**1LAZ7**	50	0.515 in	**1LBD6**	50
#10	0.025 to 0.040 in	0.25 in	**1LAZ8**	50	0.25 in	**1LBD7**	25
		0.562 in	**1LBB1**	50	0.562 in	**1LBD8**	25
	0.045 to 0.062 in	0.25 in	**1LAZ9**	50	0.25 in	**1LBD9**	25
		0.562 in	**1LBB2**	50	0.359 in	**1LBE1**	25
		—	—	—	0.562 in	**1LBE2**	25

Thread Size	Length	Width	Item No.	Pkg. Qty.
Rectangular - Spring Steel				
For Machine Screws				
4-40	0.44 in	0.25 in	**1LAT2** *	100
6-32	0.44 in	0.28 in	**1LAR7**	100
8-32	0.5 in	0.31 in	**1LAR8**	100
10-24	0.63 in	0.38 in	**1LAR9**	100
10-32	0.75 in	0.44 in	**1LAT1**	100
For Sheet Metal and Thread-Forming Screws				
#4	0.38 in	0.25 in	**1LAT3**	100
#6	0.5 in	0.31 in	**1LAT4**	100
#8	0.63 in	0.41 in	**1LAT5**	100
#10	0.75 in	0.5 in	**1LAT6**	100

** 18-8 stainless steel.*

Thread Size	For Panel Thickness	Center of Hole to Panel Edge	Item No.	Pkg. Qty.
Cage Style - Zinc Spring Steel				
6-32	0.025 to 0.063 in	0.25 in	**1LBE3**	25
8-32	0.025 to 0.062 in	0.25 in	**1LBE4**	25
10-24	0.064 to 0.105 in	0.25 in	**1LBE5**	25
10-32	0.025 to 0.063 in	0.25 in	**1LBE6**	25
¼-20	0.025 to 0.063 in	0.25 in	**1LBE7**	25
5/16-18	0.093 to 0.125 in	0.3 in	**1LBE8**	20
⅜-16	0.028 to 0.056 in	0.3 in	**1LBE9**	20
½-13	0.059 to 0.092 in	0.41 in	**1LBF1**	5

Cap Nuts

External Style—Push nuts act as a decorative and protective stop and cover for the end of studs, rods, or tubes. Cover dia. from 0.188" to 0.750" (metric sizes #4 to #16).

Plastic—Use over shaft, stud, or rod ends to help make a vibration-resistant assembly. Cover dia. from 0.125" to 0.750".

External Style

Plastic

Stud Size	Height	Cap Dia.	Cap Color	Material	Item No.	Pkg. Qty.
External						
¼"	0.205 in	0.289"	—	Steel Zinc	**4CUC9**	100
⅜"	0.234 in	0.419"	—	Steel Zinc	**4CUD2**	50
7/16"	0.328 in	0.504"	—	Steel Zinc	**4CUD3**	25
⅝"	0.413 in	0.693"	—	Steel Zinc	**4CUD5**	25
5/16 in	0.286 in	0.358 in	Silver	SAE 1050-1065 Steel Nickel Plated	**400K24**	50
Plastic						
3/16"	0.344 in	0.656"	White	Steel	**4CUH9**	25
¼"	0.44 in	0.835"	Black	Steel	**4CUJ1**	25
5/16"	0.44 in	0.835"	Black	Steel	**4CUJ2**	25
⅜"	0.44 in	0.835"	Black	Steel	**4CUJ3**	25
7/16"	0.645 in	0.835"	Black	Steel	**4CUJ4**	10
½"	0.645 in	1.300"	Black	Steel	**4CUJ5**	10
⅝"	0.645 in	1.300"	Black	Plastic Black	**4CUJ6**	10

Nut Retainers

U-Type—Commonly used in sheet metal applications. Particularly good for blind assembly applications.

G-Type—Cage fully encloses the nut and shields against protruding screw ends.

U-Nuts—For high-torque tightening in heavy-duty applications.

G-Type

U-Nut

U-Type

Thread Size	For Panel Thickness	Center of Hole to Panel Edge	Item No.	Pkg. Qty.
G-Type				
Zinc				
10-32	0.060 in to 0.079 in	0.285 in	**4CUG4**	10
M5 x 0.8	0.060 in to 0.079 in	0.285 in	**4CUG5**	10
U-Nuts				
Black Phosphate				
10-24	0.025 to 0.150 in	0.45 in	**4CUG6**	25
¼-20	0.025 to 0.150 in	0.54 in	**4CUG8**	25
¼-20	0.025 to 0.150 in	0.760 to 0.800 in	**4CUG9**	25
5/16-18	0.025 to 0.150 in	0.57 in	**4CUH1**	25
⅜-16	0.050 to 0.200 in	0.73 in	**4CUH2**	25
M6x1.00mm	0.080 to 4.00mm	13.72 mm	**4CUH3**	25
M6x1.00mm	0.080 to 4.00mm	19.0 to 20.0mm	**4CUH4**	25
M8x1.25mm	0.080 to 4.00mm	14.48 mm	**4CUH6**	25
M8x1.25mm	0.080 to 4.00mm	20.5 to 21.5mm	**4CUH7**	25
M10x1.50mm	1.50 to 5.50mm	17.5 mm	**4CUH8**	25
Zinc				
10-32	0.070 to 0.100 in	0.31 in	**4CUG7**	25
U-Type				
Black Phosphate				
¼-20	0.050 to 0.075 in	0.375 in	**4KGN8**	10
Zinc				
5/16-18	0.096 to 0.141 in	0.5 in	**4CUG3**	10

T-Nuts

- Pkg Qty: 100

Steel nuts with zinc finish. Often used to provide threads in wood when fastening other materials.

3-Prong

Internal Thread Size	Base Size	Barrel Dia.	Barrel Height	Drill Size	Item No.
3-Prong					
6-32	¼ in x ½ in	0.188 in	¼ in	13/64 in	**1XGH1**
8-32	¼ in x ⅝ in	0.208 in	¼ in	7/32 in	**1XGH2**
10-24	5/16 in x ¾ in	0.243 in	5/16 in	¼ in	**1XGH3**
10-32	5/16 in x ¾ in	0.243 in	5/16 in	¼ in	**1XGH4**
¼-20	5/16 in x ¾ in	0.305 in	5/16 in	5/16 in	**1XGH5**
5/16-18	5/16 in x ⅞ in	0.39 in	5/16 in	25/64 in	**1XGH7**
⅜-16	⅜ in x 1 in	0.44 in	7/16 in	29/64 in	**1XGJ2**
4-Prong					
¼-20	7/16 in x ¾ in	0.305 in	7/16 in	5/16 in	**1XGH6**
5/16-18	5/16 in x 1 in	0.36 in	⅜ in	25/64 in	**1XGH8**
5/16-18	5/16 in x 1 in	0.36 in	⅝ in	25/64 in	**1XGH9**
⅜-16	⅜ in x 1 in	0.44 in	7/16 in	29/64 in	**1XGJ1**

Push Nuts

Hold fasteners in place before final assembly process occurs. Vibration-resistant.

4HFV2

Retaining Dia.	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Mechanical Zinc					
#10	0.16 in	7/16"	0.012 in	**4HFV1**	100
#6	0.11 in	11/32"	0.01 in	**4HFU8**	100
½ in	0.73 in	1"	0.035 in	**4CUC7**	50
½ in	0.463 in	15/16"	0.015 in	**4HFV6**	100
¼ in	0.388 in	17/32"	0.012 in	**4HFW5**	200
¼ in	0.388 in	17/32"	0.016 in	**4HFW6**	200
¼ in	0.25 in	½"	0.01 in	**4HFV2**	100
⅛ in	0.228 in	⅜"	0.01 in	**4HFV9**	200
⅛ in	0.228 in	⅜"	0.013 in	**4HFW1**	200
3/16 in	0.32 in	7/16"	0.01 in	**4HFW2**	200
3/16 in	0.32 in	7/16"	0.014 in	**4HFW3**	200
⅜ in	0.546 in	¾"	0.017 in	**4HFW9**	200
⅜ in	0.546 in	¾"	0.026 in	**4HFX1**	50
⅜ in	0.34 in	25/32"	0.015 in	**4HFV4**	100
5/16 in	0.456 in	⅝"	0.014 in	**4HFW7**	200
5/16 in	0.456 in	⅝"	0.021 in	**4HFW8**	200
7/16 in	0.638 in	⅞"	0.03 in	**4HFX2**	50
7/32 in	0.388 in	17/32"	0.012 in	**4HFW4**	200
Black Phosphate					
#8	0.136 in	⅜"	0.01 in	**4HFU9**	100
3/32 in	0.161 in	0.195"	0.01 in	**4HFV8**	200
5/16 in	0.274 in	⅝"	0.013 in	**4HFV3**	100
7/16 in	0.407 in	27/32"	0.015 in	**4HFV5**	100

Locking Hole Plug

Locking Knockout Plug

Nylon Locking Hole and Knockout Plugs

- Temp. range: -40° to 250°F

Plugs close excess chassis holes, wiring outlets, and production access holes. Multiple locks snap into panels from 1/64" to 1/8" thick. Heat-stabilized nylon (UL94V2) construction is suitable for critical or elevated temperature applications.

Thickness	Hole Dia.	Head Dia.	Pkg. Qty.	WHITE Item No.	BLACK Item No.
Locking Hole Plugs					
0.234 in	3/16 in	0.25 in	25	**1ELU1**	**1ELT9**
0.312 in	1/4 in	0.312 in	25	**1ELU3**	**1ELU2**
	5/16 in	0.375 in	25	**1ELU5**	**1ELU4**
0.406 in	3/8 in	0.468 in	25	**1ELU7**	**1ELU6**
	7/16 in	0.531 in	25	**1ELU9**	**1ELU8**
	1/2 in	0.578 in	25	**1ELV2**	**1ELV1**
	9/16 in	0.656 in	25	**1ELV4**	**1ELV3**
	5/8 in	0.718 in	25	**1ELV6**	**1ELV5**
	11/16 in	0.781 in	25	**1ELV8**	**1ELV7**
	3/4 in	0.922 in	25	**1ELW1**	**1ELV9**
	13/16 in	0.89 in	25	**1ELW3**	**1ELW2**
0.453 in	7/8 in	1.016 in	25	**1ELW5**	**1ELW4**
	1 in	1.203 in	25	**1ELW7**	**1ELW6**
	1 3/32 in	1.218 in	25	**1ELW9**	**1ELW8**
	1 3/16 in	1.312 in	25	**1ELX2**	**1ELX1**
	1 1/4 in	1.375 in	25	**1ELX4**	**1ELX3**
	1 3/8 in	1.5 in	25	**1ELX6**	**1ELX5**
	1 1/2 in	1.672 in	25	**1ELX8**	**1ELX7**
	1 3/4 in	1.925 in	25	**1ELY1**	**1ELX9**
	2 in	2.14 in	25	**1ELY3**	**1ELY2**
0.75 in	2 1/2 in	2.775 in	25	**1ELY5**	**1ELY4**

Thickness	Hole Dia.	Head Dia.	For Panel Thickness	Item No.	Pkg. Qty.
Locking Knockout Plugs - Gray					
0.453 in	7/8 in	1.016 in	0.032 to 0.125	**1EMR2**	10
	1 1/8 in	1.218 in	0.032 to 0.125	**1EMR3**	10
	1 3/8 in	1.5 in	0.032 to 0.125	**1EMR4**	10
	1 3/4 in	1.925 in	0.032 to 0.125	**1EMR5**	10
	2 in	2.14 in	0.032 to 0.125	**1EMR6**	10

Insulating Bushing

All Fit Bushing

Nylon Bushings

- Thickness tolerance: ±0.15"
- Temp. range: -40° to 250°F
- Pkg Qty: 25

Multiple locks snap into panels from 1/32" to 1/8" thick, without tools.

Hole Dia.	Inside Dia.	Outside Dia.	BLACK Item No.	WHITE Item No.
Insulating Bushing				
0.312 in	0.25 in	0.375 in	**1ELY8**	**1ELY9**
0.375 in	0.187 in	0.468 in	**1EMB1**	**1EMB2**
0.375 in	0.25 in	0.468 in	**1EMB3**	**1EMB4**
0.437 in	0.312 in	0.531 in	**1EMB7**	**1EMB8**
0.5 in	0.375 in	0.562 in	**1ELZ3**	**1ELZ4**
0.5 in	0.375 in	0.578 in	**1EMC6**	**1EMC7**
0.562 in	0.437 in	0.656 in	**1EMD3**	—
0.625 in	0.5 in	0.718 in	**1EMD9**	**1EME1**
0.687 in	0.5 in	0.781 in	**1EME2**	—
0.75 in	0.5 in	0.843 in	**1EME8**	—
0.75 in	0.562 in	0.843 in	**1EMG1**	—
0.75 in	0.625 in	0.828 in	**1ELZ9**	**1EMA1**
0.875 in	0.5 in	0.953 in	**1EMH4**	—
0.875 in	0.562 in	0.953 in	**1EMH6**	—
0.875 in	0.625 in	0.953 in	**1EMH8**	**1EMH9**
0.875 in	0.687 in	0.953 in	**1EMJ1**	**1EMJ2**
0.875 in	0.75 in	0.937 in	**1EMA4**	**1EMA5**
1 in	0.75 in	1.125 in	**1EMJ3**	**1EMJ4**
1.093 in	0.937 in	1.218 in	**1EMJ9**	**1EMK1**
1.25 in	0.937 in	1.359 in	**1EMK4**	**1EMK5**
1.375 in	1 in	1.468 in	**1EMK6**	**1EMK7**
1.5 in	1.062 in	1.609 in	**1EMK8**	**1EMK9**
1.75 in	1.375 in	1.875 in	**1EML5**	**1EML6**
2 in	1.625 in	2.125 in	**1EML7**	**1EML8**
All Fit Bushing				
0.625 in	0.437 in	0.718 in	**1EML9**	**1EMN1**
0.75 in	0.5 in	0.859 in	**1EMN2**	**1EMN3**
0.875 in	0.562 in	0.937 in	**1EMN6**	**1EMN7**
1 in	0.75 in	1.062 in	**1EMN8**	—
1.093 in	0.812 in	1.156 in	**1EMN9**	—

With Offset Hole

With Projections

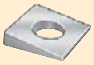
Tab Base Weld Nuts

Nuts with offset hole have a single projection and can be used to reinforce or brace an area, while nuts with projections have a center hole and provide the greatest weld strength.

Dia./ Thread Size	Weld Projections	Base Length	Base Width	Base Thickness	Pilot Dia.	Pilot Height	Pilot Hole Size	Item No.	Pkg. Qty.
Tab Base Weld Nut with Offset Hole									
Steel									
#6-32	—	5/8 in	7/16 in	3/32 in	3/16 in	0.03 in	13/64 in	**1LAF5**	50
	—	23/32 in	7/16 in	3/32 in	3/16 in	0.034 in	13/64 in	**1LAG3**	50
#8-32	—	5/8 in	7/16 in	3/32 in	13/64 in	0.03 in	7/32 in	**1LAF6**	50
	—	23/32 in	7/16 in	3/32 in	13/64 in	0.034 in	7/32 in	**1LAG4**	50
#10-24	—	5/8 in	7/16 in	3/32 in	15/64 in	0.03 in	1/4 in	**1LAF7**	50
	—	13/16 in	7/16 in	3/32 in	15/64 in	0.034 in	1/4 in	**1LAG5**	50
#10-32	—	5/8 in	7/16 in	3/32 in	15/64 in	0.03 in	1/4 in	**1LAF8**	50
	—	13/16 in	7/16 in	3/32 in	15/64 in	0.034 in	1/4 in	**1LAG6**	50
1/4"-20	—	13/16 in	1/2 in	3/32 in	19/64 in	0.05 in	5/16 in	**1LAF9**	50
	—	15/16 in	1/2 in	3/32 in	9/32 in	0.041 in	5/16 in	**1LAG7**	50
5/16"-18	—	63/64 in	5/8 in	1/8 in	23/64 in	0.08 in	3/8 in	**1LAG1**	50
	—	1 1/8 in	7/16 in	1/8 in	23/64 in	0.084 in	3/8 in	**1LAG8**	50
3/8"-16	—	63/64 in	5/8 in	9/64 in	7/16 in	0.09 in	29/64 in	**1LAG2**	50
	—	1 1/4 in	9/16 in	1/8 in	7/16 in	0.094 in	29/64 in	**1LAG9**	50
Stainless Steel									
#8-32	—	5/8 in	7/16 in	3/32 in	13/64 in	0.03 in	7/32 in	**1LAE5**	10
#10-24	—	5/8 in	7/16 in	3/32 in	15/64 in	0.03 in	1/4 in	**1LAE6**	10
#10-32	—	5/8 in	7/16 in	3/32 in	15/64 in	0.03 in	1/4 in	**1LAE7**	10
1/4"-20	—	13/16 in	1/2 in	1/8 in	19/64 in	0.05 in	5/16 in	**1LAE8**	10
1/4"-28	—	13/16 in	1/2 in	1/8 in	19/64 in	0.05 in	5/16 in	**1LAE9**	10
5/16"-18	—	63/64 in	5/8 in	9/64 in	23/64 in	0.08 in	3/8 in	**1LAF1**	10
3/8"-16	—	1 1/8 in	5/8 in	9/64 in	7/16 in	0.09 in	29/64 in	**1LAF3**	10
Tab Base Weld Nut with Projections									
Steel									
#10-24	1	5/8 in	7/16 in	3/32 in	15/64 in	0.032 in	1/4 in	**1LAH5**	50
	4	5/8 in	7/16 in	3/32 in	15/64 in	0.032 in	1/4 in	**1LAJ7**	50
#10-32	1	5/8 in	7/16 in	3/32 in	15/64 in	0.032 in	1/4 in	**1LAH6**	50
	2	5/8 in	7/16 in	3/32 in	15/64 in	0.032 in	1/4 in	**1LAJ4**	50
	4	5/8 in	7/16 in	3/32 in	15/64 in	0.032 in	1/4 in	**1LAJ8**	50
1/4"-20	1	13/16 in	1/2 in	1/8 in	19/64 in	0.054 in	5/16 in	**1LAH7**	50
	2	13/16 in	1/2 in	1/8 in	19/64 in	0.054 in	5/16 in	**1LAJ5**	50
	4	13/16 in	1/2 in	3/32 in	19/64 in	0.032 in	5/16 in	**1LAJ9**	50
1/4"-28	1	13/16 in	1/2 in	1/8 in	19/64 in	0.054 in	5/16 in	**1LAH8**	50
5/16"-18	1	63/64 in	5/8 in	9/64 in	23/64 in	0.085 in	3/8 in	**1LAH9**	50
	4	63/64 in	5/8 in	1/8 in	23/64 in	0.085 in	3/8 in	**1LAK1**	50
3/8"-16	1	1 1/8 in	5/8 in	9/64 in	7/16 in	0.094 in	29/64 in	**1LAJ1**	50
	4	63/64 in	5/8 in	1/8 in	7/16 in	0.094 in	29/64 in	**1LAK2**	50
1/2"-13	4	1 1/4 in	3/4 in	3/16 in	19/32 in	0.094 in	39/64 in	**1LAK3**	50
M6-1.00	1	20.7 mm	13 mm	3.2 mm	7.5 mm	1.3 mm	8 mm	**1LAJ2**	50
	2	20.7 mm	13 mm	3.2 mm	7.5 mm	1.3 mm	8 mm	**1LAJ6**	50

Washer Information

WASHER TYPES



Beveled
Top-bearing surface is cut at an oblique angle to compensate for nonparallel surfaces in structural leveling and shimming applications. Can be round or square. See page 2093.

Conical or Spring
Slight dish shape and edges sheared parallel to the center line increase elasticity of joint for absorbing shock and maintaining tension under dynamic loads.

Countersunk
Allows flat or oval head countersunk screws to be flush with surface for finished appearance. See page 2096.

Disc-Lock™
2-pc. washer has interlocking cams and nonslip ridges that work together under vibration to prevent loosening and lock the assembly, maintaining joint integrity.

Fender
Large outside diameter provides extra-wide bearing surface for distributing force/stress; covers oversize holes. See page 2092.

Flat
The most common washer, with 2 flat surfaces for distributing force/stress of a nut or bolt and reducing friction and heat during installation of a threaded fastener. Can be round or square. See pages 2088, 2089.

SAE Flat—Very similar to the USS, except it has a smaller outside diameter and has a tighter fit to the bolt. Used in the automotive industry. See grainger.com/fasteners.

USS Flat—Most commonly used washer has a large outside diameter that helps distribute forces applied when tightening. See grainger.com/fasteners.

Friction
Rougher washer surfaces have embedded material to provide additional friction and help prevent loosening, even in high-vibration applications. See grainger.com/fasteners.

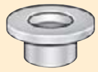
Nord-Lock®
2-pc. system serration and cams creates wedge locking action that prevents bolts from unintentional loosening. Bolt rotation is blocked due to tension between the pair of washers, regardless of high vibration or dynamic loads. See page 2093.

Ogee
Oversize, curved bearing surface keeps bolt heads and nuts from pulling into wood. The load-distributing ogee curve can serve as a force spreader in structural use. See grainger.com/fasteners.

Raised
Has a large bearing surface and raised reinforcements for structural use with wood fasteners. See page 2096.

Retaining
Feature a specially configured inner diameter that slides on the screw easily, but then grips the outside of the screw shank for retention. Ideal for preassembly and kitting. See grainger.com/fasteners.

Self-Sealing
Bonded silicone rubber to a stainless-steel compressible washer. High-pressure sealing, internally and externally.



Shoulder
Barrel protrudes from center hole of flat-bottomed washer to isolate or insulate a screw, shaft, or rivet. See grainger.com/fasteners.

Slotted
A slot the same width as the hole diameter is cut from the center to the perimeter. Slips on and off shaft without removing fastener. See grainger.com/fasteners.

Spherical
2-piece equalizing assembly with 1 flat washer and 1 dish-shaped washer. Eliminates unequal thread loads and stress from nonparallel surfaces. See grainger.com/fasteners.

Split Lock
Split with 1 end bent slightly outward to bite in and prevent loosening. Acts like a spring under compression to provide extra holding force and decrease frictional resistance during assembly and disassembly. See page 2094.

Tooth Lock
Also referred to as star washers. Directional teeth or serrated edges bite into fastener head/workpiece to prevent loosening. See page 2094.

Wave
Wavy shape provides compensating spring force, increases load-bearing capacity, absorbs shock and vibrations, and resists loosening and fatigue. See grainger.com/fasteners.

ITW Bee Leitzke

Washer Assortments

2FUD5

3CWA2

2NRZ9

No. of Pieces	Material	Finish	No. of Sizes	Includes	Brand	Item No.
Flat Washer Assortment						
Standard						
587	Steel	Zinc	11	(160) Each: #6, (140) Each: #8, (100) Each: 3⁄16 in, (60) Each: ¼ in, 5⁄16 in, (30) Each: ⅜ in, (12) Each: ½ in, (8) Each: ⅝ in, (6) Each: ¾ in, ⅞ in, (5) Each: 1 in, and Plastic Case	—	**53WR09**
Nut and Washer Assortment						
600	Low Carbon Steel	Chrome	12	Split Lock Washers (50) Each: ¼ in, 5⁄16 in, ⅜ in, Flat Washers (50) Each: ¼ in, 5⁄16 in, ⅜ in, Hex Nuts (50) Each: ¼"-20, ¼"-28, 5⁄16"-18, 5⁄16"-24, ⅜"-16, ⅜"-24, and Plastic Container	—	**2FUD5**
170	18-8 Stainless Steel	Plain	7	Hex Nuts (30) Each: 6-32, (25) Each: 8-32, (20) Each: 10-24, (15) Each: ¼"-20, Flat Washers (30) Each: #8, #10, (20) Each: ¼ in, Plastic Hanging Pak	—	**53WR27**
177	Steel	Zinc	6	Hex Nuts (30) Each: 8-32, (25) Each: 10-24, (12) Each: ¼"-20, Flat Washers (50) Each: #8, (40) Each: #10, (20) Each: ¼ in, and Plastic Hanging Pak	—	**53WR20**
Washer Assortment						
Fender						
143	Steel	Zinc	12	(20) Each: ⅛ in x ¾ in, 5⁄32 in x ⅞ in, (15) Each: 3⁄16 in x 1 in, (12) Each: ¼ in x 1 in, (10) Each: 3⁄16 in x 1 ¼ in, ¼ in x 1 ¼ in, 5⁄16 in x 1 ¼ in, x1 ½ in, ⅜ in x 1 ¼ in, x1 ½ in, (8) Each: ¼ in x 1 ½ in, 5⁄16 in x 1 ⅝ in, Plastic Hanging Pak	—	**53WR16**
1,400	Steel	Zinc	14	(100) Each: #6 x ¾ in, 5⁄32 in x ⅞ in, 3⁄16 in x ¾ in, x1 in, x1 ¼ in, ¼ in x 1 in, x1 ¼ in, x1 ½ in, 5⁄16 in x 1 ¼ in, x1 ½ in, x1 ⅝ in, ⅜ in x 1 ¼ in, x1 ½ in, ½ in x 2 in, Plastic Container	—	**53WR01**
Flat						
240	PTFE	Plain	8	Color: White, (40) Each: 0, ¼, 1/4L, ⅜, (20) Each: 000, 00, 3/8L, ½, Plastic Box With Lid Chart	—	**3CWA2**
Flat and Split Lock						
232	Steel (SAE)	Zinc	12	(15) ½ in Flat Washers, (15) ½ in Split Lock Washers, (30) ¼ in Flat Washers, (30) ¼ in Split Lock Washers, (30) ⅜ in Flat Washers, (30) ⅜ in Split Lock Washers, (30) 5⁄16 in Flat Washers, (30) 5⁄16 in Split Lock Washers, (5) ¾ in Flat Washers, (5) ¾ in Split Lock Washers, (6) ⅝ in Flat Washers, (6) ⅝ in Split Lock Washers, Plastic Hanging Pak	Itw Bee Leitzke	**2NRZ9**
310	Steel	Zinc	12	Flat Washers (50) Each: #10, (30) Each: ¼ in, (25) Each: 5⁄16 in, ⅜ in, (20) Each: 7⁄16 in, (15) Each: ½ in, Split Lock Washers (50) Each: #10, (25) Each: ¼ in, (20) Each: 5⁄16 in, ⅜ in, (16) Each: 7⁄16 in, (14) Each: ½ in, Plastic Hanging Pak	—	**53WR28**
Thin Fender						
318	Steel	Zinc	11	(48) Each: 10x1 in, (40) Each: 1/4x1 in, (30) Each: 6x5/8 in, 8x3/4 in, 10x1 ¼ in, (24) Each: 1/4x1 ¼ in, 5/16x1 ½ in, x2 in, 3/8x1 ¼ in, x1 ½ in, (20) Each: 5/16x1 ¼ in, Plastic Container	—	**4AMG6**
318	316 Stainless Steel	Plain	11		—	**4AMG8**
318	18-8 Stainless Steel	Plain	11		—	**4AMG7**

Flat Washers

Metric sizes meet applicable DIN standards.

Note: Bulk quantities of some sizes are available on Grainger.com®.

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Steel Zinc Plated Finish				
#1	9/32"	0.031"	22UG80	100
Steel Hot Dipped Galvanized Finish				
9/16"	1 15/32"	0.109"	25DK23	25
1 3/8"	3 1/4"	0.18"	25DK28	5
Low Carbon Steel Zinc Plated Finish				
#0	1/8"	0.031"	22UG72	100
	3/16"	0.031"	22UG73	100
	1/4"	0.031"	22UG74	100
#1	5/32"	0.031"	22UG75	100
	7/32"	0.031"	22UG77	100
#2	11/32"	0.031"	22UG81	100
	3/16"	0.031"	22UG76	100
	1/4"	0.016"	22UG78	100
	1/4"	0.031"	22UG79	100
#4	7/16"	0.047"	22UG85	100
	5/16"	0.031"	22UG83	100
	3/8"	0.047"	22UG84	100
	1/4"	0.047"	22UG82	100
#6	3/8"	0.0469"	6DYX4	100
	9/16"	0.047"	22UG88	100
	5/16"	0.047"	22UG86	100
	7/16"	0.047"	22UG87	100
5/32"	7/8"	0.065"	1VHF2	100
#8	7/16"	0.0469"	1JY62	100
	3/8"	0.047"	22UG89	100
	1/2"	0.047"	22UG91	100
	5/8"	0.063"	22UG93	100
	3/8"	0.047"	22UG95	100
#10	13/32"	0.047"	22UG90	100
	9/16"	0.047"	22UG92	100
	23/32"	0.063"	22UG94	100
	1/2"	0.0469"	1JY66	100
	1/2"	0.0625"	6RPN7	435
	1/2"	0.0625"	6RPN8	100
3/16"	9/16"	0.0469"	1JY27	100
#10	9/16"	0.0469"	6RPR3	100
#12	9/16"	0.0625"	1JY68	280
	9/16"	0.0469"	6RPN9	280
1/4"	5/8"	0.0625"	1JY70	100
	5/8"	0.0625"	6RPP0	100
	1/2"	0.063"	22UG96	100
	23/32"	0.063"	22UG97	100
	1"	0.063"	22UG98	100
	3/4"	0.0625"	1JY29	100
	3/4"	0.0625"	6RPR4	100
5/16"	11/16"	0.0625"	1JY72	100
	1 5/8"	0.065"	1VHF6	100
	11/16"	0.0625"	6RPP1	100
	7/8"	0.063"	22UH01	100
	5/8"	0.063"	22UG99	100
	1 1/8"	0.063"	22UH02	100
	7/8"	0.0781"	1JY31	100
	7/8"	0.0781"	6RPR5	100
3/8"	13/16"	0.0625"	1JY74	100
	13/16"	0.0625"	6RPP2	100
	23/32"	0.063"	22UH03	100
	1"	0.063"	22UH04	100
	1 1/4"	0.109"	22UH05	100
	1 1/4"	0.109"	42JX76	700
	1"	0.0781"	1JY33	100
	1"	0.0781"	6RPR6	100
7/16"	59/64"	0.0625"	1JY76	50
	15/16"	0.0625"	6RPP3	50
	7/8"	0.063"	22UH06	50
	1 15/32"	0.109"	22UH08	50
	1 1/8"	0.063"	22UH07	50
	59/64"	0.065"	25DK16	50
	1 15/32"	0.109"	42JX80	500
1/2"	1 1/4"	0.0781"	6RPR7	100
	1 1/4"	0.083"	22UE23	50
	1 1/16"	0.0937"	1JY78	50
	1 1/16"	0.0937"	6RPP4	50
	1"	0.063"	22UH09	50
	1 1/4"	0.109"	22UH10	50
	1 3/4"	0.109"	22UH11	50
	1 1/4"	0.109"	42JX82	800
	1 3/4"	0.109"	42JX83	350
	1 3/8"	0.1094"	6RPR8	100
	1 3/8"	0.109"	22UE24	50
9/16"	1 1/4"	0.056"-to-0.071"	26L049	5
	1 15/32"	0.090"-to-0.112"	26L050	5
	2"	0.090"-to-0.112"	26L051	5
	1 5/32"	0.095"	22UE21	25
	1 13/16"	0.094"	22UH12	25
	1 13/16"	0.094"	42JX84	950
	1 1/2"	0.1094"	6RPR9	50
	1 15/32"	0.109"	22UE25	25
	1 1/2"	0.109"	42JX85	950
5/8"	1 5/16"	0.0937"	1JY82	25
	1 3/4"	0.090"-to-0.112"	26L053	5
	2 1/4"	0.146"-to-0.174"	26L054	5
	1 1/4"	0.090"-to-0.112"	26L052	5
	1 5/16"	0.0937"	41HH50	775
	1 3/4"	0.1406"	6RPT0	50
	1 3/4"	0.134"	22UE26	25

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
3/4"	1 1/2"	0.141"	22UH14	20
	1 1/2"	0.141"	42JX86	480
	2"	0.156"	42JX87	480
	1 15/32"	0.1406"	1JY84	20
	2"	0.1562"	6RPT1	25
	1 3/8"	0.090"-to-0.112"	26L055	2
	2"	0.090"-to-0.112"	26L056	2
	2 1/2"	0.146"-to-0.174"	26L057	2
	2"	0.156"	22UH16	20
	1 15/32"	0.134"	25DK17	20
	2"	0.156"	42JX88	180
7/8"	1 3/4"	0.1406"	1JY86	10
	1 15/32"	0.090"-to-0.112"	26L058	2
	2 1/4"	0.146"-to-0.174"	26L059	2
	2 3/4"	0.146"-to-0.174"	26L060	2
	2 1/4"	0.165"	22UE27	10
1"	3"	0.146"-to-0.174"	26L063	2
	2"	0.1406"	6RPP9	10
	1 3/4"	0.090"-to-0.112"	26L061	2
	2 1/2"	0.165"	22UE28	5
	2"	0.134"	22UE22	5
1 1/8"	2 1/4"	0.1406"	6RPR0	46
	2"	0.090"-to-0.112"	26L064	2
	2 3/4"	0.146"-to-0.174"	26L065	2
	3 1/4"	0.146"-to-0.174"	26L066	2
	2 3/4"	0.165"	22UE29	5
	2 1/4"	0.134"	29DN15	5
	2 3/4"	0.156"	42JX89	20
1 1/4"	2 1/2"	0.1562"	6RPR1	31
	2 1/4"	0.146"-to-0.174"	26L067	2
	3"	0.146"-to-0.174"	26L068	2
	3 1/2"	0.234"-to-0.266"	26L069	2
	2 1/4"	0.165"	22UE30	5
	2 1/2"	0.156"	22UH18	5
	2 1/2"	0.165"	29DN16	5
	2 1/2"	0.165"	42JX36	130
1 3/8"	3 1/4"	0.1875"	6RPT6	25
	3 1/4"	0.156"	22UH20	5
	2 3/4"	0.156"	22UH19	5
	2 3/4"	0.165"	29DN17	5
	2 3/4"	0.156"	42JX90	115
	3 1/4"	0.156"	42JX91	75
1 1/2"	3"	0.1562"	6RPR2	21
1"	2 1/2"	0.146"-to-0.174"	26L062	2
1 1/2"	3 1/2"	0.1875"	6RPT7	25
	3 1/2"	0.18"	22UE32	5
	3"	0.156"	22UH21	5
	3"	0.165"	29DN18	5
	3"	0.165"	42JX38	90
	3"	0.156"	42JX92	90
1 3/4"	4"	0.1875"	6DYW7	10
	4"	0.1875"	6RPT8	10
2"	4 1/2"	0.1875"	6DYW8	8
	4 1/2"	0.1875"	6RPT9	10
Low Carbon Steel Plain Finish				
#2	3/16"	0.156"	6DYZ3	100
#4	1/4"	0.156"	6DYZ4	100
#5	5/16"	0.03125"	6DYZ5	100
#6	3/8"	0.0469"	6DYZ6	100
#8	7/16"	0.0469"	6DYZ7	100
#10	1/2"	0.0469"	6DYZ8	100
	9/16"	0.0469"	6DYY1	100
#12	9/16"	0.0625"	6DYZ9	100
1/4"	5/8"	0.065"	2DA56	100
	5/8"	0.0625"	6DZA0	100
	47/64"	0.065"	2DA30	100
5/16"	11/16"	0.065"	2DA57	100
	11/16"	0.0625"	6DZA1	100
	7/8"	0.083"	2DA31	100
3/8"	13/16"	0.065"	2DA58	100
	13/16"	0.0625"	6DZA2	100
	1"	0.083"	2DA32	100
7/16"	59/64"	0.0625"	6DZA3	100
	59/64"	0.065"	22UE07	50
	1 1/4"	0.083"	22UE16	50
1/2"	1 1/16"	0.0937"	6DZA4	100
	1 1/16"	0.095"	22UE08	50
	1 3/8"	0.109"	22UE17	50
9/16"	1 5/32"	0.095"	25DK11	25
	1 15/32"	0.109"	25DK13	25
5/8"	1 5/16"	0.0937"	6DZA6	100
	1 5/16"	0.095"	22UE09	25
	1 5/16"	0.095"	42JX24	775
	1 3/4"	0.134"	22UE18	25
3/4"	1 1/2"	0.1406"	6DZA7	100
	1 15/32"	0.134"	25DK12	20
	2"	0.148"	25DK14	20
	1 15/32"	0.134"	42JX25	500
	2 1/4"	0.165"	22UE61	10
7/8"	1 3/4"	0.1406"	6DZA8	100
	1 3/4"	0.134"	22UE10	10
	1 3/4"	0.134"	42JX26	350
1"	2"	0.1406"	6DZA9	100
	2"	0.134"	22UE11	5
	2 1/2"	0.165"	22UE19	5
	2"	0.134"	42JX27	265
1 1/8"	2 3/4"	0.165"	22UE75	5
	2 1/4"	0.134"	29DN12	5
1 1/4"	3"	0.165"	22UE80	5
	2 1/2"	0.165"	29DN13	5
1 3/8"	3 1/4"	0.1562"	6DYY6	25
	2 3/4"	0.1562"	6DZC2	25
	2 3/4"	0.165"	22UE12	5
1 1/2"	3 1/2"	0.1875"	6DYY7	25
	3"	0.165"	29DN14	5
1 3/4"	4"	0.1875"	6DYY8	10
	4"	0.18"	42JX97	40

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
2"	4 1/2"	0.1875"	6DYY9	10
	4 1/2"	0.18"	42JX98	35
2 1/4"	4 3/4"	0.22"	22UE39	5
	4 3/4"	0.22"	42JX99	25
2 1/2"	5"	0.25"	6DYZ1	10
	5"	0.238"	42JY01	20
3"	5 1/2"	0.284"	22UE60	5
	5 1/2"	0.284"	42JY02	15
316 Stainless Steel Plain Finish				
#4	5/16"	0.032"	6UKW9	100
	5/16"	0.031"	22UG48	50
#6	3/8"	0.036"-to-0.065"	2DNY2	25
#8	3/8"	0.031"	22UG49	50
	3/8"	0.032"	6UKX0	100
	7/16"	0.036"-to-0.065"	2DNY3	25
#10	7/16"	0.031"	22UG50	50
	7/16"	0.032"	6UKX1	100
	1/2"	0.049"	22UE38	50
	9/16"	0.036"-to-0.065"	2DPA7	25
#12	9/16"	0.051"-to-0.080"	2DNY5	25
1/4"	5/8"	0.065"	1NU76	50
	5/8"	0.05"	6UKX2	100
	5/8"	0.047"	22UG51	50
	3/4"	0.065"	22UE40	50
	3/4"	0.047"	22UG52	50
5/16"	11/16"	0.065"	1NU77	50
	3/4"	0.05"	6UKX3	100
	11/16"	0.047"	22UG53	50
316 Stainless Steel Finish				
5/16"	3/4"	0.047"	22UG54	50
316 Stainless Steel Plain Finish				
5/16"	7/8"	0.083"	22UE41	50
	7/8"	0.063"	22UG56	50
3/8"	7/8"	0.047"	22UG55	50
	7/8"	0.05"	6UKX4	100
	13/16"	0.065"	1NU78	50
	13/16"	0.047"	22UG57	50
	1"	0.083"	22UE42	50
	1"	0.063"	22UG58	50
7/16"	29/32"	0.047"	22UG59	25
	59/64"	0.065"	25DK42	25
	1 1/8"	0.062"	6UKX5	100
	1 1/4"	0.083"	22UE43	25
	1 1/4"	0.063"	22UG60	25
1/2"	1 1/16"	0.098"	1NU79	25
	1 1/16"	0.063"	22UG61	25
	1 1/4"	0.062"	6UKX6	50
	1 3/8"	0.109"	22UE44	25
	1 1/4"	0.063"	22UG62	25
	1 3/8"	0.094"	26WC59	25
	1 3/8"	0.094"	42KV22	625
316 Stainless Steel Finish				
9/16"	1 5/32"	0.095"	29DU03	25
316 Stainless Steel Plain Finish				
9/16"	1 1/2"	0.094"	22UG63	25
	1 1/2"	0.094"	42KV23	600
5/8"	1 5/16"	0.095"	22UG29	25
	1 3/4"	0.134"	22UG34	25
	1 5/16"	0.063"	22UG64	25
	1 5/16"	0.095"	42KU97	750
	1 5/16"	0.063"	42KV24	775
	1 1/2"	0.078"	6UKX7	10
	1 3/4"	0.109"	22UG66	25
	1 1/2"	0.078"	22UG65	25
	1 1/2"	0.078"	42KV25	775
	1 3/4"	0.109"	42KV26	325
3/4"	1 1/2"	0.109"	22UG67	20
	2"	0.125"	22UG68	20
	1 1/2"	0.109"	42KV27	460
	2"	0.125"	42KV28	180
	1 3/4"	0.11"	6UKX8	10
	1 15/32"	0.134"	25DK43	20
	1 15/32"	0.134"	42KU98	500
7/8"	2"	0.11"	6UKX9	10
	2 1/4"	0.165"	22UE45	5
	1 3/4"	0.134"	25DK44	5
	1 3/4"	0.134"	42KU99	350
1"	2"	0.11"	6UKY0	10
	2 1/2"	0.165"	22UE46	5
	2"	0.109"	22UG70	5
	2"	0.134"	25DK45	5
	2"	0.134"	42KV01	265
	2"	0.109"	42KV29	255
	2 1/2"	0.141"	42KV30	125
1 1/8"	2 1/2"	0.125"	6UKY1	5
	2 3/4"	0.165"	1NU73	5
	2 1/4"	0.134"	42KV02	215
1 1/4"	2 3/4"	0.125"	6UKY2	5
	3"	0.165"	1NU74	5
316 Stainless Steel Finish				
1 1/4"	2 1/2"	0.165"	25DK47	5
316 Stainless Steel Plain Finish				
1 1/4"	2 1/2"	0.165"	42KV03	130
1 3/8"	3 1/4"	0.18"	29DU16	5
	2 3/4"	0.165"	42KV04	110
1 1/2"	3 1/4"	0.125"	6UKY3	1
	3"	0.165"	42KV05	90
18-8 Stainless Steel Plain Finish				
#0	1/8"	0.022"-to-0.028"	26L013	10
	3/16"	0.022"-to-0.028"	26L014	10
	1/4"	0.022"-to-0.028"	26L015	10
#1	7/32"	0.022"-to-0.028"	26L017	10
	5/32"	0.022"-to-0.028"	26L016	10
	9/32"	0.028"-to-0.036"	26L018	10
#2	1/4"	0.028"-to-0.036"	26L020	25
	3/16"	0.022"-to-0.028"	26L019	25
	11/32"	0.028"-to-0.036"	26L021	25

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
#4	5/16"	0.025"-to-0.040"	2DNW6	50
	5/16"	0.032"	6UKY4	100
	3/8"	0.036"-to-0.045"	26L023	25
	7/16"	0.036"-to-0.045"	26L024	25
	1/4"	0.028"-to-0.036"	26L022	25
	5/16"	0.031"	19NR58	50
#6	3/8"	0.036"-to-0.065"	2DNW7	50
	3/8"	0.032"	6UKY5	100
	5/16"	0.028"-to-0.036"	26L025	25
	7/16"	0.036"-to-0.045"	26L026	25
	9/16"	0.036"-to-0.045"	26L027	25
	3/8"	0.031"	22UF89	50
	3/8"	0.049"	19NR59	50
#8	3/8"	0.032"	6UKY6	100
	7/16"	0.036"-to-0.065"	2DNW8	50
	3/8"	0.036"-to-0.045"	26L028	25
	5/8"	0.056"-to-0.071"	26L030	25
	1/2"	0.036"-to-0.045"	26L029	25
	7/16"	0.049"	19NR60	50
#10	7/16"	0.032"	6UKY7	100
	13/32"	0.036"-to-0.045"	26L031	25
	9/16"	0.036"-to-0.045"	26L032	25
	47/64"	0.056"-to-0.071"	26L033	25
	1/2"	0.036"-to-0.065"	2DNW9	50
	1/2"	0.049"	19NR61	50
	9/16"	0.036"-to-0.065"	2DNZ5	50
#12	9/16"	0.051"-to-0.080"	2DNX1	50
	1/2"	0.045"	6UKY8	100
	1/2"	0.047"	22UF94	50
	9/16"	0.065"	25DK29	50
1/4"	5/8"	0.045"	6UKY9	100
	47/64"	0.056"-to-0.071"	26L035	10
	1"	0.056"-to-0.071"	26L036	10
	1/2"	0.056"-to-0.071"	26L034	10
	5/8"	0.047"	22UF96	50
	5/8"	0.065"	25DK30	50
	3/4"	0.051"-to-0.080"	2DNZ6	50
	3/4"	0.047"	19NR63	50
5/16"	3/4"	0.05"	6UKZ0	100
	7/8"	0.056"-to-0.071"	26L038	10
	1 1/8"	0.056"-to-0.071"	26L039	10
	5/8"	0.056"-to-0.071"	26L037	10
	3/4"	0.047"	22UG03	50
	11/16"	0.047"	22UG01	50
	11/16"	0.065"	25DK31	50
	7/8"	0.064"-to-0.104"	2DNZ7	50
	7/8"	0.063"	19NR64	50
3/8"	7/8"	0.047"	22UG07	50
	7/8"	0.05"	6UKZ1	100
	47/64"	0.056"-to-0.071"	26L040	10
	1"	0.056"-to-0.071"	26L041	10
	1 1/4"	0.090"-to-0.112"	26L042	10
	13/16"	0.047"	22UG09	50
	13/16"	0.065"	25DK32	50
	1"	0.063"	22UG13	50
7/16"	59/64"	0.051"-to-0.080"	2DNX5	25
	7/8"	0.056"-to-0.071"	26L043	5
	1 1/8"	0.056"-to-0.071"	26L044	5
	1 15/32"	0.090"-to-0.112"	26L045	5
	59/64"	0.065"	25DK33	25
	29/32"	0.047"	19NR62	25
	1"	0.188"	42KL90	775
	1 1/4"	0.064"-to-0.104"	2DNZ9	25
	1 1/8"	0.06"	6UKZ2	100
	1 1/8"	0.047"	22UG17	25
	1 1/8"	0.063"	22UG18	25
	1 1/4"	0.063"	19NR65	25
1/2"	1"	0.056"-to-0.071"	26L046	5
	1 1/4"	0.090"-to-0.112"	26L047	5
	1 3/4"	0.090"-to-0.112"	26L048	5
	1 1/16"	0.095"	25DK34	25
	1 1/16"	0.063"	26WC55	25
	1 1/16"	0.188"	42KL95	700
	1 1/8"	0.125"	42KL96	875
	1 1/8"	0.188"	42KL97	600
	1 3/8"	0.097"-to-0.121"	2DPA1	25
	1 1/4"	0.062"	6UKZ3	100
	1 1/4"	0.063"	22UG22	25
	1 3/8"	0.094"	19NR66	25
	1 3/8"	0.094"	42KL99	675
9/16"	1 1/16"	0.063"	6UKZ4	100
	2"	0.090"-to-0.112"	26L072	5
	1 1/4"	0.056"-to-0.071"	26L070	5
	1 15/32"	0.090"-to-0.112"	26L071	5
	1 5/32"	0.095"	25DK35	25
	1 13/16"	0.188"	42KM01	575
	1 15/32"	0.109"	22UE33	25
	1 1/2"	0.094"	22UG25	25
	1 1/2"	0.094"	42KM02	550
5/8"	1 1/4"	0.090"-to-0.112"	26L073	5
	2 1/4"	0.146"-to-0.174"	26L075	5
	1 3/4"	0.090"-to-0.112"	26L074	5
	1 5/16"	0.095"	25DK36	25
	1 5/16"	0.063"	26WC56	25
	1 5/16"	0.095"	42KL38	775
	1 5/16"	0.219"	42KM04	400
	1 3/8"	0.125"	42KM05	600
	1 3/8"	0.188"	42KM06	400
	1 1/2"	0.062"	6FDG9	25
	1 1/2"	0.078"	6UKZ5	50
	1 1/2"	0.078"	22UG30	25
	1 3/4"	0.109"	22UG31	25
	1 3/4"	0.134"	29DR37	25
	1 1/2"	0.063"	42KM07	750
	1 1/2"	0.078"	42KM08	875
	1 3/4"	0.109"	42KM09	850

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Flat Washers

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
¾"	1¾"	0.075"	**6FDH0**	20
	2"	0.125"	**22UG36**	20
	1½"	0.109"	**22UG32**	20
	1¾"	0.109"	**22UG35**	20
	1½"	0.109"	**42KM10**	560
	1½"	0.219"	**42KM11**	300
	1⅝"	0.125"	**42KM12**	340
	1⅝"	0.25"	**42KM13**	200
	1¾"	0.078"	**42KM14**	420
	1¾"	0.109"	**42KM15**	400
	2"	0.125"	**42KM16**	400
	1¾"	0.11"	**6UKZ6**	25
	2½"	0.146"-to-0.174"	**26L078**	2
	1⅜"	0.090"-to-0.112"	**26L076**	2
	2"	0.090"-to-0.112"	**26L077**	2
	1 15/32"	0.134"	**25DK37**	20
	1 15/32"	0.134"	**42KL39**	500
⅞"	1¾"	0.156"	**42KM17**	300
	1¾"	0.25"	**42KM18**	190
	2"	0.11"	**6UKZ7**	25
	2¾"	0.146"-to-0.174"	**26L081**	2
	1 15/32"	0.090"-to-0.112"	**26L079**	2
	2¼"	0.146"-to-0.174"	**26L080**	2
	2"	0.094"	**22UG38**	5
	2"	0.109"	**22UG39**	5
	2¼"	0.141"	**22UG40**	5
	1¾"	0.134"	**25DK38**	5
	1¾"	0.134"	**42KL40**	350
	2"	0.094"	**42KM19**	300
	2"	0.109"	**42KM20**	330
	2¼"	0.141"	**42KM21**	175
1"	2"	0.188"	**42KM22**	190
	2"	0.25"	**42KM23**	150
	2"	0.281"	**42KM24**	125
	2"	0.11"	**6UKZ8**	10
	1¾"	0.090"-to-0.112"	**26L082**	2
	3"	0.146"-to-0.174"	**26L084**	2
	2½"	0.165"	**22UE34**	5
	2½"	0.141"	**22UG45**	5
	2"	0.134"	**25DK39**	5
	2"	0.134"	**42KL41**	265
	2"	0.109"	**42KM25**	285
	2½"	0.141"	**42KM26**	125
1⅛"	2¼"	0.219"	**42KM27**	115
	2½"	0.125"	**6UKZ9**	10
	2"	0.090"-to-0.112"	**26L085**	2
	3¼"	0.146"-to-0.174"	**26L087**	2
	2¾"	0.146"-to-0.174"	**26L086**	2
	2¾"	0.165"	**22UE35**	5
	2¼"	0.134"	**29DR18**	5
	2¼"	0.134"	**42KL42**	215
1¼"	2½"	0.281"	**42KM28**	75
	2¾"	0.125"	**6ULA0**	10
	2¼"	0.146"-to-0.174"	**26L088**	2
	3"	0.146"-to-0.174"	**26L089**	2
	3½"	0.234"-to-0.266"	**26L090**	2
	3"	0.165"	**22UE36**	5
	2½"	0.165"	**25DK40**	5
	2½"	0.165"	**42KL43**	130
1⅜"	2¾"	0.165"	**42KL44**	110
1½"	3¼"	0.125"	**6ULA1**	10
1"	2½"	0.146"-to-0.174"	**26L083**	2
1½"	3½"	0.18"	**22UE37**	5
	3"	0.165"	**25DK41**	5
	3"	0.165"	**42KL45**	90

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Low Carbon Steel Zinc Yellow Finish				
M3	9 mm	0.8 mm	**25DL16**	100
M4	12 mm	1 mm	**25DL17**	100
M5	15 mm	1.2 mm	**25DL18**	100
M6	18 mm	1.6 mm	**25DL19**	100
M8	24 mm	2 mm	**25DL21**	100
M10	30 mm	2.5 mm	**25DL22**	100
M12	37 mm	3 mm	**25DL23**	50
	37 mm	3 mm	**42GL34**	450
M14	44 mm	3 mm	**25DL24**	50
M16	50 mm	3 mm	**25DL25**	25
M20	60 mm	4 mm	**25DL26**	10
Low Carbon Steel Zinc Plated Finish				
M2	4 ½ mm	0.3 mm	**38DR19**	100
	7 mm	0.8 mm	**29DJ18**	100
M2.5	8 mm	0.8 mm	**29DJ19**	100
M3	6 mm	0.5 mm	**38DR21**	100
	9 mm	1 mm	**38DR32**	100
M3.5	11 mm	0.8 mm	**25DL11**	100
M4	8 mm	0.5 mm	**38DR22**	100
	12 mm	1.6 mm	**38DR33**	100
M5	9 mm	1 mm	**38DR23**	100
	15 mm	2 mm	**38DR34**	100
M6	11 mm	1.6 mm	**38DR24**	100
	17 mm	3 mm	**38DR35**	100
M7	22 mm	2 mm	**25DL12**	100
M8	15 mm	1.6 mm	**38DR25**	100
	21 mm	4 mm	**38DR36**	100
M10	18 mm	1.6 mm	**38DR26**	100
	25 mm	4 mm	**38DR37**	100
M12	20 mm	2 mm	**38DR27**	100
	30 mm	6 mm	**38DR38**	100
M14	24 mm	2.5 mm	**38DR28**	100
	44 mm	3 mm	**25DL13**	50
M16	28 mm	2.5 mm	**38DR29**	100
	40 mm	6 mm	**38DR39**	100
M18	30 mm	2.5 mm	**38DR30**	100
	56 mm	4 mm	**25DL14**	25
M20	34 mm	3 mm	**38DR31**	100
	44 mm	8 mm	**38DR41**	100
M22	50 mm	8 mm	**38DR42**	50
	59 mm	3 mm	**29DJ20**	10
M24	50 mm	1 mm	**38DR43**	50
	72 mm	5 mm	**25DL15**	10
M30	68 mm	1 mm	**38DR45**	25
	92 mm	6 mm	**29DJ22**	5
M36	110 mm	8 mm	**29DJ24**	2
Low Carbon Steel Furnace Black Finish				
M16	30 mm	3 mm	**2WY83**	50
M18	34 mm	3 mm	**2WY84**	25
M20	37 mm	3 mm	**2WY85**	25
M24	44 mm	4 mm	**2WY86**	25
A4 Stainless Steel Plain Finish				
M1.6	4 mm	0.3 mm	**25DL07**	50
M2	5 mm	0.3 mm	**22UE64**	50
M2.5	6 mm	0.5 mm	**22UE65**	50
M2.6	7 mm	0.5 mm	**29DK29**	50
M3	7 mm	0.5 mm	**22UE66**	50
	9 mm	0.8 mm	**25DL33**	50
M3.5	8 mm	0.5 mm	**29DK30**	50
M4	9 mm	0.8 mm	**22UE67**	50
	12 mm	1 mm	**25DL34**	50
M5	10 mm	1 mm	**22UE68**	50
	15 mm	1.2 mm	**25DL35**	50
M6	12 mm	1.6 mm	**22YG90**	50
	18 mm	1.6 mm	**25DL36**	50
M7	14 mm	1.6 mm	**38EC12**	50
M8	16 mm	1.6 mm	**22YG91**	50
	24 mm	2 mm	**25DL37**	50
M10	20 mm	2 mm	**22YG92**	50
	30 mm	2.5 mm	**25DL38**	50
M12	24 mm	2.5 mm	**6FA39**	25
	37 mm	3 mm	**25DL39**	25
M14	28 mm	2.5 mm	**6FA41**	25
M16	30 mm	3 mm	**22UE69**	10
	50 mm	3 mm	**25DL40**	10
M18	34 mm	3 mm	**6FA45**	10
M20	37 mm	3 mm	**22UE70**	5
	60 mm	4 mm	**25DL41**	5
M24	44 mm	4 mm	**6FA49**	5
M27	50 mm	4 mm	**25DL09**	5
M30	56 mm	4 mm	**22UE71**	5
M33	60 mm	5 mm	**25DL10**	2
M36	66 mm	5 mm	**22UE72**	2
A2 Stainless Steel Plain Finish				
M1.6	4 mm	0.3 mm	**22UH24**	50
M2	5 mm	0.3 mm	**22UH25**	50
	7 mm	0.8 mm	**25DL28**	50
M2.5	6 mm	0.5 mm	**22UH30**	50
M2.6	7 mm	0.5 mm	**29DJ73**	50
M3	7 mm	0.5 mm	**26WC30**	50
M3.5	8 mm	0.5 mm	**26WC31**	50
	11 mm	0.8 mm	**29DJ77**	50
M4	9 mm	0.8 mm	**26WC32**	50
M5	10 mm	1 mm	**26WC33**	50
M6	12 mm	1.6 mm	**26WC34**	50
	17 mm	3 mm	**38EA32**	100
M7	14 mm	1.6 mm	**26WC35**	50
M8	16 mm	1.6 mm	**26WC36**	50
	21 mm	4 mm	**38EA33**	100
M10	20 mm	2 mm	**26WC37**	50
	25 mm	4 mm	**38EA34**	100
M12	24 mm	2.5 mm	**22UE59**	25
	30 mm	6 mm	**38EA35**	50
M14	28 mm	2.5 mm	**6FA13**	25
	44 mm	3 mm	**25DL29**	25
M16	30 mm	3 mm	**26WC38**	10
M18	34 mm	3 mm	**6FA17**	10
M20	37 mm	3 mm	**26WC39**	5
M22	39 mm	3 mm	**25DL03**	5
M24	44 mm	4 mm	**26WC40**	5
	72 mm	5 mm	**25DL30**	5
M27	50 mm	4 mm	**25DL04**	5
M30	56 mm	4 mm	**22UE62**	5
	56 mm	4 mm	**42GT58**	185
	92 mm	6 mm	**25DL31**	5
M33	60 mm	5 mm	**25DL05**	2
	60 mm	5 mm	**42GT59**	132
M36	66 mm	5 mm	**22UE63**	2
	66 mm	5 mm	**42GT60**	108
	110 mm	8 mm	**25DL32**	2
M39	72 mm	6 mm	**42GT61**	74
M42	78 mm	7 mm	**42GT62**	54
200HV Steel Zinc Plated Finish				
M6	12 mm	1.6 mm	**25DK57**	100
M8	16 mm	1.6 mm	**25DK58**	100
M10	20 mm	2 mm	**25DK59**	100
M12	24 mm	2.5 mm	**25DK60**	50
M14	28 mm	2.5 mm	**25DK61**	50
M16	30 mm	3 mm	**25DK62**	25
M18	34 mm	3 mm	**25DK63**	25
M20	37 mm	3 mm	**25DK64**	10
M24	44 mm	4 mm	**25DK65**	10
M27	50 mm	4 mm	**25DK66**	5
M30	56 mm	4 mm	**25DK67**	5
M33	60 mm	5 mm	**25DK68**	2
M36	66 mm	5 mm	**25DK69**	2
140HV Steel Zinc Yellow Finish				
M3	7 mm	0.5 mm	**25DK48**	100
M4	9 mm	0.8 mm	**25DK49**	100
M5	10 mm	1 mm	**25DK50**	100
M6	12 mm	1.6 mm	**2WY87**	100
M7	14 mm	1.6 mm	**25DK51**	100
M8	16 mm	1.6 mm	**2WY88**	100
M10	20 mm	2 mm	**2WY89**	100
M11	24 mm	2.5 mm	**25DK52**	50
M12	24 mm	2.5 mm	**22YG88**	50
M14	28 mm	2.5 mm	**2WY91**	50
M16	30 mm	3 mm	**22YG89**	25
M18	34 mm	3 mm	**2WY93**	25
M20	37 mm	3 mm	**22UE48**	10
M22	39 mm	3 mm	**25DK53**	10
M24	44 mm	4 mm	**22UE49**	10
M33	60 mm	5 mm	**25DK56**	2
140HV Steel Zinc Plated Finish				
M1.6	4 mm	0.3 mm	**6EY45**	100
M2	5 mm	0.3 mm	**6EY47**	100
M2.5	6 mm	0.5 mm	**6EY49**	100
M2.6	7 mm	0.5 mm	**25DK91**	100
M3	7 mm	0.5 mm	**6EY51**	100
M3.5	8 mm	0.5 mm	**29DJ16**	100
M4	9 mm	0.8 mm	**6EY55**	100
M5	10 mm	1 mm	**6EY57**	100
M6	12 mm	1.6 mm	**6EY59**	100
M7	14 mm	1.6 mm	**6EY61**	100
M8	16 mm	1.6 mm	**6EY63**	100
M10	20 mm	2 mm	**6EY65**	100
M11	24 mm	2.5 mm	**25DK92**	50
M12	24 mm	2.5 mm	**22UH22**	50
M14	28 mm	2.5 mm	**6EY19**	50
M16	30 mm	3 mm	**22UE53**	25
M18	34 mm	3 mm	**2WY99**	25
M20	37 mm	3 mm	**22UE54**	10
M22	39 mm	3 mm	**25DK93**	10
M24	44 mm	4 mm	**22UH23**	10
M27	50 mm	4 mm	**25DK94**	5
M30	56 mm	4 mm	**22UE55**	5
M33	60 mm	5 mm	**25DK95**	2
M36	66 mm	5 mm	**22UE56**	2
M39	72 mm	6 mm	**22UE57**	2
M42	78 mm	7 mm	**22UE58**	2
	78 mm	7 mm	**42GK97**	54
M45	85 mm	7 mm	**25DK96**	2
M48	92 mm	8 mm	**25DK97**	2
M52	98 mm	8 mm	**25DK98**	1
	98 mm	8 mm	**42GL01**	30
M56	105 mm	9 mm	**25DK99**	1
	105 mm	9 mm	**42GL02**	23
M64	115 mm	9 mm	**25DL02**	1
140HV Steel Plain Finish				
M6	12 mm	1.6 mm	**25DK70**	100
M8	16 mm	1.6 mm	**25DK71**	100
M10	20 mm	2 mm	**25DK72**	100
M11	24 mm	2.5 mm	**25DK73**	50
M12	24 mm	2.5 mm	**25DK74**	50
M14	28 mm	2.5 mm	**25DK75**	50
M16	30 mm	3 mm	**25DK76**	25
M18	34 mm	3 mm	**25DK77**	25
M20	37 mm	3 mm	**25DK78**	10
M22	39 mm	3 mm	**25DK79**	10
M24	44 mm	4 mm	**25DK80**	10
M27	50 mm	4 mm	**25DK81**	5
M30	56 mm	4 mm	**22UE50**	5
M33	60 mm	5 mm	**25DK82**	2
M36	66 mm	5 mm	**22UE51**	2
M39	72 mm	6 mm	**25DK83**	2
M45	85 mm	7 mm	**25DK84**	2
M48	92 mm	8 mm	**25DK85**	2
M56	105 mm	9 mm	**25DK87**	1
M64	115 mm	9 mm	**25DK89**	1

Military Specification Flat Washers

- 18-8 Stainless steel

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
AN960 ANSI Standards				
#2	¼ in	0.022 in to 0.042 in	**2DNL3**	100
	¼ in	0.006 in to 0.026 in	**2DNL4**	100
#3	¼ in	0.022 in to 0.042 in	**2DNL5**	100
	¼ in	0.006 in to 0.026 in	**2DNL6**	100
#4	5/16 in	0.002 in to 0.042 in	**2DNL7**	100
	5/16 in	0.006 in to 0.026 in	**2DNL8**	100
#6	⅜ in	0.002 in to 0.042 in	**2DNL9**	100
	⅜ in	0.006 in to 0.026 in	**2DNN1**	100
#8	⅜ in	0.002 in to 0.042 in	**2DNN2**	100
	⅜ in	0.006 in to 0.026 in	**2DNN3**	100
#10	7/16 in	0.053 in to 0.073 in	**2DNN4**	100
	7/16 in	0.022 in to 0.042 in	**2DNN5**	100
¼ in	½ in	0.053 in to 0.073 in	**2DNN6**	50
	½ in	0.022 in to 0.042 in	**2DNN7**	50
5/16 in	9/16 in	0.053 in to 0.073 in	**2DNN8**	50
	9/16 in	0.022 in to 0.042 in	**2DNN9**	50
⅜ in	⅝ in	0.053 in to 0.073 in	**2DNP1**	50
	⅝ in	0.022 in to 0.042 in	**2DNP2**	50
7/16 in	¾ in	0.053 in to 0.073 in	**2DNP3**	25
	¾ in	0.022 in to 0.042 in	**2DNP4**	25
½ in	⅞ in	0.053 in to 0.073 in	**2DNP5**	25
	⅞ in	0.022 in to 0.042 in	**2DNP6**	25
9/16 in	1 1/16 in	0.053 in to 0.073 in	**2DNP7**	25
⅝ in	1 3/16 in	0.053 in to 0.073 in	**2DNP8**	25
¾ in	1 5/16 in	0.080 in to 0.100 in	**2DNP9**	10
⅞ in	1 ½ in	0.080 in to 0.100 in	**2DNR1**	10
1 in	1 ¾ in	0.080 in to 0.100 in	**2DNR2**	10
MS15795 ANSI Standards				
#0,1	3/16 in	0.016 in to 0.025 in	**2DNH1**	100
#2	¼ in	0.016 in to 0.025 in	**2DNH2**	100
#4	¼ in	0.017 in to 0.028 in	**2DNH3**	100
	5/16 in	0.032 in to 0.040 in	**2DNH4**	100
#6	5/16 in	0.027 in to 0.048 in	**2DNH5**	100
	⅜ in	0.036 in to 0.065 in	**2DNH6**	100
#8	⅜ in	0.036 in to 0.065 in	**2DNH7**	100
	7/16 in	0.036 in to 0.065 in	**2DNH8**	100
#10	7/16 in	0.036 in to 0.065 in	**2DNH9**	100
	½ in	0.036 in to 0.065 in	**2DNJ1**	100
#12	9/16 in	0.051 in to 0.080 in	**2DNJ2**	50
¼ in	⅝ in	0.051 in to 0.080 in	**2DNJ3**	50
	47/64 in	0.051 in to 0.080 in	**2DNJ4**	50
5/16 in	11/16 in	0.051 in to 0.080 in	**2DNJ5**	50
	⅞ in	0.064 in to 0.104 in	**2DNJ6**	25
⅜ in	13/16 in	0.051 in to 0.080 in	**2DNJ7**	25
	1 in	0.064 in to 0.104 in	**2DNJ8**	25
7/16 in	59/64 in	0.051 in to 0.080 in	**2DNJ9**	25
	1 ¼ in	0.064 in to 0.104 in	**2DNK1**	5
½ in	1 1/16 in	0.074 in to 0.121 in	**2DNK2**	5
	1 ⅜ in	0.086 in to 0.132 in	**2DNK3**	5
⅝ in	1 5/16 in	0.074 in to 0.121 in	**2DNK4**	5
	1 ¾ in	0.108 in to 0.160 in	**2DNK5**	5
¾ in	1 15/32 in	0.108 in to 0.160 in	**2DNK6**	5
	2 in	0.122 in to 0.177 in	**2DNK7**	1
⅞ in	1 ¾ in	0.108 in to 0.160 in	**2DNK8**	1
	2 ¼ in	0.136 in to 0.192 in	**2DNK9**	1
1 in	2 in	0.108 in to 0.160 in	**2DNL1**	1
	2 ½ in	0.136 in to 0.192 in	**2DNL2**	1
NAS620 ANSI Standards				
#0	3/32 in	0.014 in to 0.018 in	**2DNR3**	100
#2	5/32 in	0.014 in to 0.018 in	**2DNR4**	100
#3	3/16 in	0.029 in to 0.035 in	**2DNR5**	100
	3/16 in	0.014 in to 0.018 in	**2DNR6**	100
#4	13/64 in	0.029 in to 0.035 in	**2DNR7**	100
	13/64 in	0.014 in to 0.018 in	**2DNR8**	100
#5	15/64 in	0.029 in to 0.035 in	**2DNR9**	100
	15/64 in	0.014 in to 0.018 in	**2DNT1**	100
#6	17/64 in	0.029 in to 0.035 in	**2DNT2**	100
	17/64 in	0.014 in to 0.018 in	**2DNT3**	100
#8	19/64 in	0.029 in to 0.035 in	**2DNT4**	100
	19/64 in	0.014 in to 0.018 in	**2DNT5**	100
#10	23/64 in	0.059 in to 0.067 in	**2DNT6**	50
	23/64 in	0.029 in to 0.035 in	**2DNT7**	50
¼ in	15/32 in	0.059 in to 0.067 in	**2DNT8**	50
	15/32 in	0.029 in to 0.035 in	**2DNT9**	50
NAS1149 ANSI Standards				
#2	¼ in	0.028 in to 0.036 in	**2DNV9**	100
#3	¼ in	0.028 in to 0.036 in	**2DNW1**	100
#4	5/16 in	0.028 in to 0.036 in	**2DNW2**	100
#5	7/16 in	0.037 in to 0.047 in	**2DNW3**	100
#6	⅜ in	0.028 in to 0.036 in	**2DNW4**	100
#8	⅜ in	0.028 in to 0.036 in	**2DNW5**	100
#10	7/16 in	0.028 in to 0.036 in	**2DNU1**	100
	7/16 in	0.057 in to 0.069 in	**2DNU2**	100
¼ in	½ in	0.028 in to 0.036 in	**2DNU3**	50
	½ in	0.057 in to 0.069 in	**2DNU4**	50
5/16 in	9/16 in	0.028 in to 0.036 in	**2DNU5**	50
	9/16 in	0.057 in to 0.069 in	**2DNU6**	50
⅜ in	⅝ in	0.028 in to 0.036 in	**2DNU7**	50
	⅝ in	0.057 in to 0.069 in	**2DNU8**	50
7/16 in	¾ in	0.028 in to 0.036 in	**2DNU9**	25
	¾ in	0.057 in to 0.069 in	**2DNV1**	25
½ in	⅞ in	0.028 in to 0.036 in	**2DNV2**	25
	⅞ in	0.057 in to 0.069 in	**2DNV3**	25
9/16 in	1 1/16 in	0.028 in to 0.036 in	**2DNV4**	10
⅝ in	1 3/16 in	0.057 in to 0.069 in	**2DNV5**	5
¾ in	1 5/16 in	0.082 in to 0.098 in	**2DNV6**	5
⅞ in	1 ½ in	0.082 in to 0.098 in	**2DNV7**	5

Thick and Extra-Thick Flat Washers

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
7/16"	1¼"	0.083 in	**29DR35**	25
#0	⅛"	0.016 in	**22UF83**	50
#1	5/32"	0.016 in	**22UF84**	50
#2	3/16"	0.031 in	**22UF85**	50
#4	¼"	0.063 in	**22UF86**	50
	5/16"	0.078 in	**22UF87**	50
#6	5/16"	0.063 in	**22UF88**	50
#8	⅜"	0.063 in	**22UF90**	50
#6	⅜"	0.078 in	**22UF91**	50
#8	7/16"	0.078 in	**22UF92**	50
#10	½"	0.094 in	**22UF93**	50
¼"	½"	0.078 in	**22UF95**	50
	⅝"	0.125 in	**22UF97**	50
	⅝"	0.188 in	**22UF98**	50
	47/64"	0.065 in	**29DR32**	50
5/16"	⅝"	0.094 in	**22UF99**	50
	11/16"	0.094 in	**22UG02**	50
	¾"	0.094 in	**22UG04**	50
	¾"	0.125 in	**22UG05**	50
	¾"	0.188 in	**22UG06**	50
	⅞"	0.083 in	**29DR33**	50
⅜"	¾"	0.094 in	**22UG08**	50
	⅞"	0.125 in	**22UG10**	50
	1"	0.125 in	**22UG11**	50
	1"	0.083 in	**29DR34**	50
7/16"	29/32"	0.125 in	**22UG14**	25
	1"	0.125 in	**22UG15**	25
	1"	0.188 in	**22UG16**	25
½"	1 1/16"	0.188 in	**22UG19**	25
	1⅛"	0.125 in	**22UG20**	25
	1⅛"	0.188 in	**22UG21**	25
	1⅜"	0.109 in	**29DR36**	25
	1⅜"	0.109 in	**42KM43**	550
9/16"	1 13/16"	0.188 in	**22UG24**	25
	1 15/32"	0.109 in	**42KM44**	500
⅝"	1⅜"	0.125 in	**22UG27**	25
	1¾"	0.134 in	**42KM45**	775
¾"	1⅝"	0.125 in	**26WC58**	20
	1⅝"	0.25 in	**22UG33**	20
	1½"	0.219 in	**26WC57**	20
	2"	0.148 in	**42KM46**	500
⅞"	1¾"	0.156 in	**19NT66**	5
	1¾"	0.15625 in	**5RU70**	5
	1¾"	0.25 in	**22UG37**	5
	2¼"	0.165 in	**42KM47**	140
1"	2"	0.188 in	**22UG41**	5
	2½"	0.165 in	**42KM48**	110
1⅛"	2¾"	0.165 in	**42KM49**	95
1⅜"	2¾"	0.25 in	**1JUX4**	1
1½"	3"	0.125 in	**1JUX5**	1
1¼"	3"	0.165 in	**42KM50**	80
1½"	3"	0.25 in	**1JUX6**	1
1⅜"	3¼"	0.18 in	**42KM51**	110
1¾"	3⅜"	0.25 in	**1JUX7**	1
1½"	3½"	0.18 in	**42KM52**	55
2"	3¾"	0.25 in	**1JUX8**	1

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
2½"	4½"	0.3125 in	**1JUX9**	1
3"	5½"	0.3125 in	**1JUY1**	1
3½"	6½"	0.3125 in	**1JUY2**	1
4"	7½"	0.3125 in	**1JUY3**	1
304 Stainless Steel Finish				
⅜"	1"	0.188 in	**22UG12**	50
⅝"	1 5/16"	0.219 in	**22UG26**	25
1"	2"	0.109 in	**22UG44**	5
	2"	0.281 in	**22UG43**	5
1⅛"	2¼"	0.219 in	**22UG46**	5
316 Stainless Steel Plain Finish				
7/16"	1¼"	0.083 in	**42KV44**	925
½"	1⅜"	0.109 in	**42KV45**	550
⅝"	1¾"	0.134 in	**42KV46**	275
⅞"	2¼"	0.165 in	**42KV47**	135
1"	2½"	0.165 in	**42KV48**	110
1⅛"	2¾"	0.165 in	**42KV49**	95
1¼"	3"	0.165 in	**42KV50**	80
1⅜"	3¼"	0.18 in	**42KV51**	110
1½"	3½"	0.18 in	**42KV52**	55
Case Hardened Steel Black Oxide Finish				
¼"	⅝"	0.1875 in	**5RY23**	10
5/16"	¾"	0.1875 in	**5RY26**	10
⅜"	1"	0.1875 in	**5RY29**	10
7/16"	1"	0.1875 in	**5RY32**	5
½"	1⅛"	0.1875 in	**5RY34**	5
⅝"	1⅜"	0.1875 in	**5RY37**	5
¾"	1⅝"	0.25 in	**5RY40**	5
⅞"	1¾"	0.25 in	**5RY43**	5
1"	2"	0.1875 in	**5RU71**	5
	2"	0.28125 in	**5RY46**	1
1⅛"	2¼"	0.21875 in	**5RU74**	5
1¼"	2½"	0.28125 in	**5RU76**	5
Case Hardened Steel Plain Finish				
#4	5/16"	0.078 in	**22UF71**	100
#6	⅜"	0.078 in	**22UF72**	100
#8	7/16"	0.078 in	**22UF73**	100
#10	½"	0.094 in	**22UF74**	100
¼"	⅝"	0.125 in	**22UF75**	100
5/16"	¾"	0.125 in	**22UF76**	100
⅜"	⅞"	0.125 in	**22UF77**	50
7/16"	1"	0.125 in	**22UF78**	50
¾"	1⅝"	0.125 in	**22UF81**	20
⅞"	1¾"	0.156 in	**22UF82**	10
Low Carbon Steel Hot Dipped Galvanized Finish				
¼"	69/94"	0.065 in	**25DK20**	100
5/16"	⅞"	0.0625 in	**1KA15**	100
⅜"	1"	0.0781 in	**1KA16**	100
7/16"	1¼"	0.083 in	**25DK22**	50
½"	1⅜"	0.109 in	**42JX08**	550
	1⅜"	0.1094 in	**1KA17**	50
⅝"	1¾"	0.134 in	**42JX10**	500
	1¾"	0.1406 in	**1KA18**	25

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
¾"	2"	0.148 in	**25DK25**	20
⅞"	2¼"	0.165 in	**22UF25**	10
1"	2½"	0.165 in	**22UG23**	5
	2½"	0.165 in	**42JX13**	110
1¼"	3"	0.165 in	**25DK27**	5
1½"	3½"	0.18 in	**29DN11**	5
Low Carbon Steel Plain Finish				
3/16"	9/16"	0.049 in	**2DA29**	100
½"	1⅜"	0.109 in	**38TT82**	550
9/16"	1 15/32"	0.109 in	**25DK13**	25
⅝"	1¾"	0.134 in	**38TT83**	275
¾"	2"	0.148 in	**38TT96**	340
⅞"	2¼"	0.165 in	**38TT85**	140
1"	2½"	0.165 in	**38TT84**	110
1⅛"	2¾"	0.165 in	**42JW85**	95
1¼"	3"	0.165 in	**42JW86**	80
1⅜"	3¼"	0.18 in	**25DK15**	5
	3¼"	0.18 in	**42JW87**	110
1½"	3½"	0.18 in	**22UE20**	5
	3½"	0.18 in	**42JW88**	55
1¾"	4"	0.18 in	**22UE13**	5
2"	4½"	0.18 in	**22UE14**	5
2½"	5"	0.238 in	**22UE15**	5
Low Carbon Steel Zinc Plated Finish				
¼"	69/94"	0.065 in	**25DK18**	100
7/16"	1¼"	0.083 in	**42JW92**	950
9/16"	1½"	0.109 in	**22UH13**	25
⅝"	1¾"	0.134 in	**42JW95**	350
¾"	2"	0.156 in	**22UH15**	20
	2"	0.148 in	**25DK19**	20
1"	2½"	0.165 in	**42JW98**	110
1⅛"	2¾"	0.156 in	**22UH17**	5
1⅜"	3¼"	0.18 in	**22UE31**	5
	3¼"	0.18 in	**42JX02**	60
1½"	3½"	0.18 in	**42JX03**	55
Not Graded Brass Plain Finish				
#10	½"	0.09375 in	**5RU46**	5
¼"	⅝"	0.125 in	**5RU49**	5
	⅝"	0.1875 in	**5RY24**	5
5/16"	¾"	0.125 in	**5RU52**	5
	¾"	0.1875 in	**5RY27**	5
⅜"	⅞"	0.125 in	**5RU55**	5
	1"	0.1875 in	**5RY30**	5
½"	1⅛"	0.125 in	**5RU60**	5
	1⅛"	0.1875 in	**5RY35**	5
⅝"	1⅜"	0.125 in	**5RU63**	5
	1⅜"	0.1875 in	**5RY38**	5
¾"	1⅝"	0.15625 in	**5RU66**	5
	1⅝"	0.25 in	**5RY41**	1
⅞"	1¾"	0.15625 in	**5RU69**	5
	1¾"	0.25 in	**5RY44**	1
1"	2"	0.1875 in	**5RU72**	1
	2"	0.28125 in	**5RY47**	1
Not Graded Steel Plain Finish				
½"	1⅛"	0.125 in	**22UF79**	50
Through Hardened Steel Zinc Yellow Finish				
¼"	⅝"	0.09375 in	**5RY64**	100
5/16"	11/16"	0.09375 in	**5RY65**	100
⅜"	13/16"	0.125 in	**5RY66**	100
7/16"	59/64"	0.125 in	**5RY67**	50
½"	1 1/16"	0.203125 in	**5RY68**	50

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
9/16"	1 11/64"	0.171875 in	**5RY69**	25
⅝"	1 5/16"	0.21875 in	**5RY70**	25
¾"	1 15/32"	0.219 in	**22UH26**	20
⅞"	1¾"	0.25 in	**5RY72**	10
1"	2"	0.25 in	**22UH27**	5
1⅛"	2¼"	0.25 in	**22UH28**	5
1¼"	2½"	0.25 in	**22UH29**	5
1⅜"	2¾"	0.25 in	**5RY76**	5
1½"	3"	0.25 in	**22UH31**	5

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
M3	12-mm	3 mm	**1JYD7**	2
	8-mm	2 mm	**1JYC3**	10
M4	10-mm	2 mm	**1JYC4**	10
	14-mm	3 mm	**1JYD8**	2
M5	11-mm	2 mm	**1JYC5**	10
	15-mm	3.5 mm	**1JYD9**	2
M6	13-mm	2.5 mm	**1JYC6**	10
	18-mm	4.5 mm	**1JYE1**	2
M8	16-mm	3 mm	**1JYC7**	10
	22-mm	5 mm	**1JYE2**	2
M10	19-mm	3 mm	**1JYC8**	10
	23-mm	5 mm	**1JYE3**	2
M12	22-mm	3 mm	**1JYC9**	10
	26-mm	5 mm	**1JYE4**	2
M14	25-mm	3 mm	**1JYD1**	5
	27-mm	5 mm	**1JYE5**	2
M16	28-mm	3.5 mm	**1JYD2**	5
	32-mm	5 mm	**1JYE6**	2
M20	35-mm	3.5 mm	**1JYD3**	5
	35-mm	5 mm	**1JYE7**	1
M24	40-mm	4 mm	**1JYD4**	2
	43-mm	6.5 mm	**1JYE8**	1
M30	44-mm	4 mm	**1JYD5**	2
Case Hardened Steel Black Oxide Finish				
M3	12-mm	3 mm	**5RE98**	5
	8-mm	2 mm	**5RE85**	25
M4	10-mm	2 mm	**5RE86**	25
	14-mm	3 mm	**5RE99**	5
M5	11-mm	2 mm	**5RE87**	10
	15-mm	3.5 mm	**5RU10**	5
M6	13-mm	2.5 mm	**5RE88**	10
	18-mm	4.5 mm	**5RU11**	5
M8	16-mm	3 mm	**5RE89**	10
	22-mm	5 mm	**5RU12**	5
M10	19-mm	3 mm	**5RE90**	10
	23-mm	5 mm	**5RU13**	5
M12	22-mm	3 mm	**5RE91**	10
	26-mm	5 mm	**5RU14**	5
M14	25-mm	3 mm	**5RE92**	10
	27-mm	5 mm	**5RU15**	5
M16	28-mm	3.5 mm	**5RE93**	10
	32-mm	5 mm	**5RU16**	5
M20	35-mm	3.5 mm	**5RE94**	10
	35-mm	5 mm	**5RU17**	5
M24	40-mm	4 mm	**5RE95**	5
	43-mm	6.5 mm	**5RU18**	5
M30	44-mm	4 mm	**5RE96**	5
	48-mm	6.5 mm	**5RU19**	1
M36	50-mm	5 mm	**5RE97**	5

Through-Hardened Steel Flat Washers

Smooth hard surface for distributing bolt load. Use with Grade 8 fasteners.

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Case Hardened Steel Plain Finish				
½"	1⅛"	0.125 in	**42JY11**	950
⅝"	1⅜"	0.125 in	**42JY12**	625
¾"	1⅝"	0.125 in	**42JY13**	340
⅞"	1¾"	0.156 in	**42JY14**	330
1"	2"	0.188 in	**19NT67**	5
	2"	0.188 in	**42JY15**	210
1⅛"	2¼"	0.219 in	**42JY16**	140
1¼"	2½"	0.281 in	**19NT69**	5
	2½"	0.281 in	**42JY17**	80
Through Hardened Steel Black Oxide Finish				
1⅜"	2¾"	0.25 in	**5RY56**	1
1½"	3"	0.25 in	**5RY57**	1
1¾"	3⅜"	0.25 in	**5RY58**	1
2"	3¾"	0.25 in	**5RY59**	1
2½"	4½"	0.3125 in	**5RY60**	1
3"	5½"	0.3125 in	**5RY61**	1
3½"	6½"	0.3125 in	**5RY62**	1
4"	7½"	0.3125 in	**5RY63**	1
Through Hardened Steel Hot Dipped Galvanized Finish				
½"	1 1/16"	0.097 in to 0.177 in	**31JM16**	25
⅝"	1 5/16"	0.122 in to 0.177 in	**31JM17**	10
¾"	1 15/32"	0.122 in to 0.177 in	**31JM18**	10
⅞"	1¾"	0.136 in to 0.177 in	**31JM19**	5
1"	2"	0.136 in to 0.177 in	**31JM20**	5
1⅛"	2¼"	0.136 in to 0.177 in	**31JM21**	5
1¼"	2½"	0.136 in to 0.177 in	**31JM22**	5

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Through Hardened Steel Plain Finish				
½"	1 1/16"	0.136 in to 0.177 in	**31JL55**	25
⅝"	1 5/16"	0.136 in to 0.177 in	**31JL56**	10
¾"	1 15/32"	0.136 in to 0.177 in	**31JL57**	10
⅞"	1¾"	0.136 in to 0.177 in	**31JL58**	5
1"	2"	0.051 in to 0.080 in	**31JL59**	5
1⅛"	2¼"	0.051 in to 0.080 in	**31JL60**	5
1¼"	2½"	0.064 in to 0.104 in	**31JL61**	5
Through Hardened Steel Zinc Yellow Finish				
¼"	¾"	0.065 in	**6YPH2**	100
	⅝"	0.065 in	**6YPJ5**	100
	¾"	0.136 in to 0.192 in	**6PE76**	100
	⅝"	0.136 in to 0.177 in	**6PU12**	100
	⅝"	0.094 in	**19NT70**	100
5/16"	⅞"	0.083 in	**6YPH3**	50
	11/16"	0.065 in	**6YPJ6**	50
	⅞"	0.136 in to 0.192 in	**6PE78**	50
	11/16"	0.136 in to 0.177 in	**6PU14**	50
	11/16"	0.094 in	**19NT71**	100
⅜"	1"	0.083 in	**6YPH4**	50
	13/16"	0.065 in	**6YPJ7**	50
	1"	0.136 in to 0.192 in	**6PE80**	50
	13/16"	0.136 in to 0.177 in	**6PU16**	50
	13/16"	0.125 in	**19NT72**	100
7/16"	1¼"	0.083 in	**6YPH5**	25
	59/64"	0.065 in	**6YPJ8**	25
	1¼"	0.051 in to 0.080 in	**6PE82**	25
	59/64"	0.051 in to 0.080 in	**6PU18**	25
	29/32"	0.125 in	**19NT73**	50
½"	1⅜"	0.109 in	**6YPH6**	25
	1 1/16"	0.095 in	**6YPJ9**	25
	1⅜"	0.051 in to 0.080 in	**6PE84**	25
	1 1/16"	0.097 in to 0.121 in	**6PU20**	25
9/16"	1½"	0.109 in	**6YPH7**	25
	1 3/16"	0.095 in	**6YPK0**	25
	1½"	0.051 in to 0.080 in	**6PE86**	25
	1 3/16"	0.097 in to 0.121 in	**6PU22**	25
	1 5/32"	0.172 in	**19NT74**	25
	1 5/32"	0.172 in	**42JY22**	625

Fits Bolt Sizes	Outside Dia.	Thickness	Item No.	Pkg. Qty.
⅝"	1¾"	0.134 in	**6YPH8**	25
	1 5/16"	0.095 in	**6YPK1**	25
	1¾"	0.108 in to 0.160 in	**6PE88**	25
	1 5/16"	0.122 in to 0.177 in	**6PU24**	25
	1 5/16"	0.219 in	**19NT75**	25
	1 5/16"	0.219 in	**42JY23**	375
¾"	2"	0.148 in	**6YPH9**	20
	1 15/32"	0.134 in	**6YPK2**	20
	2"	0.097 in to 0.121 in	**6PE90**	20
	1 15/32"	0.122 in to 0.177 in	**6PU26**	20
	1 15/32"	0.219 in	**42JY24**	320
⅞"	2¼"	0.165 in	**6YPJ0**	10
	1¾"	0.134 in	**6YPK3**	10
	2¼"	0.097 in to 0.121 in	**6PE92**	10
	1¾"	0.136 in to 0.177 in	**6PU28**	10
	1¾"	0.25 in	**19NT76**	10
	1¾"	0.25 in	**42JY25**	200
1"	2½"	0.165 in	**6YPJ1**	10
	2"	0.134 in	**6YPK4**	10
	2½"	0.122 in to 0.177 in	**6PE94**	10
	2"	0.136 in to 0.177 in	**6PU30**	10
	2"	0.25 in	**42JY26**	160
1⅛"	2¾"	0.165 in	**6YPJ2**	5
	2¼"	0.134 in	**6YPK5**	10
	2¾"	0.122 in to 0.177 in	**6PE96**	5
	2¼"	0.136 in to 0.177 in	**6PU32**	10
	2¼"	0.25 in	**42JY27**	115
1¼"	3"	0.165 in	**6YPJ3**	5
	2½"	0.165 in	**6YPK6**	10
	3"	0.136 in to 0.177 in	**6PE98**	5
	2½"	0.136 in to 0.177 in	**6PU34**	10
	2½"	0.25 in	**42JY28**	100
1⅜"	2¾"	0.25 in	**19NT77**	5
	2¾"	0.25 in	**42JY29**	80
1½"	3½"	0.18 in	**6YPJ4**	5
	3"	0.165 in	**6YPK7**	5
	3½"	0.136 in to 0.177 in	**6PU10**	5
	3"	0.136 in to 0.177 in	**6PU37**	5
	3"	0.25 in	**42JY30**	65
Through Hardened Steel Zinc Yellow Finsh				
M30	56-mm	5 mm	**2WY69**	10

Nonmetallic Flat Washers

Nylon—Strong, abrasion-resistant material offers low friction coefficient, electrical insulation, and noise dampening. Natural finish.

- Bulk nylon washers are available on Grainger.com®

Phenolic—Tough, lightweight material resists distortion under pressure. Ideal insulation for electronic assembly requiring moisture resistance.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Nylon, Off White			
#0	0.179"	**4DAN1**	40
#2	0.196"	**4DAN3**	40
	0.188"	**4DAN5**	40
	0.250"	**4DAN7**	50
#3	0.220"	**4DAN9**	40
	0.316"	**4DAP2**	40
#4	0.206"	**4DAP4**	40
	0.250"	**4DAP6**	40
	0.250"	**4DAP8**	40
	0.280"	**4DAR1**	40
#5	0.285"	**4DAR3**	40
#6	0.312"	**4DAR9**	40
	0.313"	**4DAR5**	40
#5	0.400"	**4DAR7**	40
#6	0.438"	**4DAT2**	40
	0.312"	**4DAT4**	40
#8	0.375"	**4DAT6**	40
	0.408"	**4DAT8**	40
	0.500"	**4DAU1**	40
#10	0.437"	**4DAU3**	40
	0.562"	**4DAU7**	40
	0.460"	**4DAU5**	40
#12	0.465"	**4DAU9**	40
1/4 in	0.472"	**4DAV2**	40
	0.687"	**4DAV4**	40
	0.719"	**4DAV6**	40
5/16 in	0.740"	**4DAV8**	40
	0.885"	**4DAW1**	40
3/8 in	0.750"	**4DAW3**	40
	1.000"	**4DAW5**	20
7/16 in	0.750"	**4DAW7**	40
1/2 in	0.750"	**4DAW9**	40
	1.250"	**4DAX2**	20
3/4 in	1.057"	**4DAX6**	10
	2.000"	**4DAX4**	5
1 in	2.500"	**4DAX8**	5
M2	5mm	**4DAY8**	50
M3	8mm	**4DAZ2**	50
M4	9mm	**4DAZ5**	50
M5	11mm	**4DAZ8**	50
M6	12mm	**4DCA2**	50
M8	18mm	**4DCA5**	50
M10	22mm	**4DAY2**	25
M12	25mm	**4DAY5**	10
Phenolic, Tan			
#4	0.312"	**5RE78**	5
#6	0.500"	**5RE79**	5
#8	0.500"	**5RE80**	5
#10	0.632"	**5RE81**	5
1/4 in	0.625"	**5RE82**	5
5/16 in	0.569"	**5RE83**	5
3/8 in	0.625"	**5RE84**	5

FOREVER BOLT®

NL-19SM Washers

Proprietary metal treatment produces brighter finish, increased strength, and superior corrosion resistance.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Flat Washer			
18-8 Stainless Steel NL-19(SM) Finish			
#6	3/8 in	**36RK68**	100
#8	7/16 in	**36RK70**	100
#10	7/16 in	**36RK73**	100
	1/2 in	**36RK72**	100
#12	9/16 in	**36RK74**	100
1/4 in	5/8 in	**36RK76**	100
	3/4 in	**36RK79**	50
5/16 in	11/16 in	**36RK82**	25
	3/4 in	**36RK81**	100
3/8 in	7/8 in	**36RK84**	100
	13/16 in	**36RK85**	25
	1 in	**36RK86**	25
7/16 in	59/64 in	**36RK89**	25
	1 1/8 in	**36RK88**	100
1/2 in	1 1/16 in	**36RK90**	10
	1 1/4 in	**36RK92**	100
5/8 in	1 5/16 in	**36RK93**	10
	1 1/2 in	**36RK94**	50
3/4 in	1 1/2 in	**36RK96**	1
	1 3/4 in	**36RK97**	25
7/8 in	2 in	**36RK98**	25
1 in	2 1/2 in	**36RK99**	10
M5	10 mm	**36RL20**	100
M6	12 mm	**36RL21**	100
M8	16 mm	**36RL22**	100
M10	20 mm	**36RL23**	100
M12	24 mm	**36RL24**	100
M16	30 mm	**36RL25**	25
M20	37 mm	**36RL26**	10
316 Stainless Steel NL-19(SM) Finish			
#8	7/16 in	**36RL01**	100
#10	1/2 in	**36RL02**	100
#12	9/16 in	**36RL03**	25
1/4 in	5/8 in	**36RK66**	100
	3/4 in	**36RL06**	100
5/16 in	11/16 in	**36RL07**	10
	7/8 in	**36RL08**	100
3/8 in	13/16 in	**36RL09**	10
	1 in	**36RL11**	100
7/16 in	1 1/4 in	**36RL12**	100
1/2 in	1 1/16 in	**36RL13**	5
	1 3/8 in	**36RL14**	50
5/8 in	1 1/2 in	**36RK67**	10
	1 3/4 in	**36RL15**	10
3/4 in	1 1/2 in	**36RL16**	1
	2 in	**36RL17**	10
7/8 in	2 1/4 in	**36RL18**	10
1 in	2 1/2 in	**36RL19**	10
M6	12 mm	**36RL27**	100
M8	16 mm	**36RL28**	100
M10	20 mm	**36RL29**	100
Large OD Flat Washer			
18-8 Stainless Steel NL-19(SM) Finish			
1/4 in	1 in	**36RK40**	25
	1 1/4 in	**36RK41**	25
	1 1/2 in	**36RK42**	25
	2 in	**36RK43**	10
5/16 in	1 1/4 in	**36RK44**	10
	1 1/2 in	**36RK45**	10
3/8 in	1 1/4 in	**36RK46**	10
	1 1/2 in	**36RK47**	10
	1 5/8 in	**36RK48**	10
	2 in	**36RK49**	10
1/2 in	1 1/2 in	**36RK50**	10
	2 in	**36RK51**	10
M6	18 mm	**36RK59**	50
M8	24 mm	**36RK60**	25
M10	30 mm	**36RK61**	10
M12	37 mm	**36RK62**	10
316 Stainless Steel NL-19(SM) Finish			
1/4 in	1 in	**36RK52**	25
	1 1/4 in	**36RK53**	25
5/16 in	1 1/4 in	**36RK54**	10
	1 1/2 in	**36RK55**	10
3/8 in	1 1/4 in	**36RK56**	5
	1 1/2 in	**36RK57**	5
1/2 in	2 in	**36RK58**	5

METRIC BLUE

Metric Blue® Alloy Flat Washers

Blue coating provides easy metric identification.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Alloy Steel Metric Blue Finish			
M6	13 mm	**5YMX9**	25
M8	18 4/5 mm	**5YMY0**	50
M10	20 mm	**5YMY1**	25
M12	25 2/5 mm	**5YMY2**	10
M16	32 mm	**5YMY3**	5
M20	39 mm	**5YMY4**	5
M24	44 mm	**5YMY5**	5

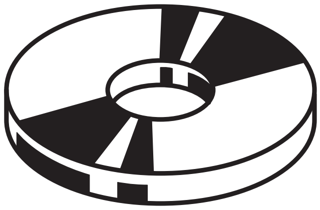
ARMOR COAT™ FASTENERS

Armor Coat® Flat Washers

- Tensile strength: 150,000 psi

Coated to protect against harsh environments; provides 250% greater strength than stainless steel. Rust-resistant. Meet ASME B18.22.1 standard.

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Through Hardened Steel Armor Coat Finish			
1/4 in	5/8 in	**5DKA7**	100
	3/4 in	**5DKC4**	100
5/16 in	11/16 in	**5DKA8**	50
	7/8 in	**5DKC5**	50
3/8 in	13/16 in	**5DKA9**	50
	1 in	**5DKC6**	50
7/16 in	59/64 in	**5DKC0**	25
	1 1/4 in	**5DKC7**	25
1/2 in	1 1/16 in	**5DKC1**	25
	1 3/8 in	**5DKC8**	25
5/8 in	1 5/16 in	**5DKC2**	25
	1 3/4 in	**5DKC9**	25
3/4 in	1 15/32 in	**5DKC3**	20
	2 in	**5DKD0**	20



Fender Washers

Feature a large outside dia. Use where an extra-wide bearing surface is required or to cover an oversized hole. Washers have an outside dia. that is approximately 3 times the bolt dia.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel Plain Finish				
#10	13/64"	1/2"	4ARR5	50
	7/32"	1"	1JUY4	1
	13/64"	11/16"	4ARR6	50
	13/64"	1"	4ARR7	50
	13/64"	3/4"	4ARR8	50
	3/16"	1/2"	19NR85	50
#6	9/64"	5/8"	4ARR1	50
	5/32"	9/16"	4ARR2	50
	1/8"	5/8"	19NR82	50
	5/32"	9/16"	19NR83	50
#8	11/64"	3/4"	4ARR3	50
	3/16"	0.436"	19NR86	50
1/8"	5/32"	5/8"	35YU95	50
	5/32"	3/4"	19NR84	50
5/32"	3/16"	7/8"	35YU96	50
3/16"	3/16"	1 1/4"	22UE81	50
	3/16"	1/2"	35YU97	50
	3/16"	1 1/2"	35YU98	50
	3/16"	1"	19NR87	50
	3/16"	3/4"	19NR88	50
1/4"	9/32"	1 1/2"	1JUY5	1
	9/32"	1/2"	22UE82	50
	9/32"	9/16"	22UE83	50
	9/32"	7/8"	22UE84	50
	9/32"	1"	22UE85	50
	9/32"	1 1/4"	22UE86	50
	9/32"	1 1/2"	22UE88	50
	9/32"	2"	22UE89	50
	9/32"	1 49/64"	35YU99	50
	9/32"	2 1/2"	35YV01	50
	9/32"	3"	35YV02	50
	9/32"	1 1/4"	22UE87	50
5/16"	11/32"	2"	1JUY6	1
	11/32"	2"	1JUY7	1
	11/32"	5/8"	22UE90	50
	11/32"	1 1/4"	22UE91	50
	11/32"	1 1/2"	22UE92	50
	11/32"	2"	22UE93	50
	11/32"	7/8"	35YV03	50
	11/32"	1"	35YV04	50
	11/32"	1 5/8"	35YV05	50
	5/16	1 3/4"	35YV06	50
	5/16	2 1/2"	35YV07	50
	5/16	3"	35YV08	50
3/8"	13/32"	2"	1JUY8	1
	13/32"	2"	1JUY9	1
	13/32"	1 1/4"	22UE94	50
	13/32"	1 1/2"	22UE95	50
	13/32"	1 5/8"	22UE96	50
	13/32"	2"	22UE97	50
	5/16	1 3/4"	35YV09	50
	5/16	3"	35YV10	50
1/2"	17/32"	2"	1JUZ1	1
	17/32"	2"	1JUZ2	1
	17/32"	1 1/2"	26WC53	25
	17/32"	2"	26WC54	25
	5/16	1 1/4"	35YV11	25
	5/16	1 3/4"	35YV12	25
	1/2"	2 1/2"	35YV13	25
	5/16	3"	35YV14	25
5/8"	11/16"	2 1/2"	1JUZ3	1
	11/16"	2 1/2"	1JUZ4	1
3/4"	13/16"	3"	1JUZ5	1
7/8"	15/16"	3 1/4"	1JUZ6	1
1"	1 1/16"	3 1/2"	1JUZ7	1
1 1/4"	1 3/8"	4"	1JUZ8	1
316 Stainless Steel Plain Finish				
#6	5/32"	9/16"	22UE98	50
	5/16	5/8"	35YV15	50
#8	3/16"	11/16"	22UF02	50
1/8"	5/32"	3/4"	22UE99	50
5/32"	5/16	7/8"	35YV16	50
3/16"	3/16"	1/2"	22UF01	50
	3/16"	1"	22UF04	50
	3/16"	3/4"	22UF03	50
	7/32"	1 1/4"	22UF05	50
	5/16	1 1/2"	35YV17	50
1/4"	9/32"	1/2"	22UF06	50
	9/32"	9/16"	22UF07	50
	9/32"	7/8"	22UF08	50
	9/32"	1"	22UF09	50
	9/32"	1 1/4"	22UF10	50
	9/32"	1 1/2"	22UF11	50
	9/32"	2"	22UF12	50
	5/16	1 3/4"	35YV18	50
	5/16	2 1/2"	35YV19	50
	5/16	3"	35YV20	50
5/16"	11/32"	5/8"	22UF13	50
	11/32"	1 1/4"	22UF14	50
	11/32"	1 1/2"	22UF15	50
	11/32"	2"	22UF16	50
	5/16	7/8"	35YV21	50
	5/16	1"	35YV22	50
	5/16	1 5/8"	35YV23	50
	5/16	1 3/4"	35YV24	50
	5/16	2 1/2"	35YV25	50
	5/16	3"	35YV26	50
3/8"	13/32"	1 1/4"	22UF17	50
	13/32"	1 1/2"	22UF18	50
	13/32"	1 5/8"	22UF19	50
	13/32"	2"	22UF20	50
	5/16	1 3/4"	35YV27	50
	5/16	3"	35YV28	50
1/2"	17/32"	1 1/2"	22UF21	25
	17/32"	2"	22UF22	25
	5/16	1 1/4"	35YV29	25
	5/16	1 3/4"	35YV30	25
	5/16	2 1/2"	35YV31	25
	5/16	3"	35YV32	25
A2 Stainless Steel Plain Finish				
M10	10.5mm	30-mm	22UE77	50
M12	13mm	37-mm	22UE78	25
M16	17mm	50-mm	22UE79	10
M2.5	2.7mm	8-mm	26WC41	50
M20	22mm	60-mm	6EU98 *	5
M3	3.2mm	9-mm	26WC42	50
M4	4.3mm	12-mm	26WC43	50
M5	5.3mm	15-mm	26WC44	50
M6	6.4mm	18-mm	6EU88 *	50
M8	8.4mm	24-mm	22UE76	50
Low Carbon Steel Plain Finish				
1/8"	5/32"	5/8"	35YU66	100
	5/32"	3/4"	35YU67	100
5/32"	3/16"	7/8"	35YU68	100
3/16"	3/16"	1/2"	35YU69	100
	3/16"	3/4"	35YU70	100
	3/16"	1"	35YU71	100
	3/16"	1 1/4"	35YU72	100
	3/16"	1 1/2"	35YU73	100
1/4"	9/32"	7/8"	35YU74	100
	9/32"	1"	35YU75	100
	9/32"	1 1/4"	35YU76	100
	9/32"	1 1/2"	35YU77	100
	9/32"	2"	35YU78	100
	9/32"	2 1/2"	35YU79	100
	9/32"	3"	35YU80	100
5/16"	11/32"	1 1/4"	35YU81	100
	11/32"	1 1/2"	35YU82	100
	11/32"	1 5/8"	35YU83	100
	11/32"	2"	35YU84	100
	11/32"	2 1/2"	35YU85	100
	11/32"	3"	35YU86	100
3/8"	13/32"	1 1/4"	35YU87	100
	13/32"	1 1/2"	35YU88	100
	13/32"	1 5/8"	35YU89	100
	13/32"	2"	35YU90	100
	13/32"	3"	35YU91	100
1/2"	17/32"	1 1/2"	35YU92	50
	17/32"	2"	35YU93	50
	17/32"	3"	35YU94	50
Low Carbon Steel Zinc Plated Finish				
#10	13/64"	3/4"	6ULA2	100
	7/32"	3/4"	6ULA3	100
	7/32"	3/4"	1JLP7	100
	3/16"	11/16"	22UF27	100
	7/32"	1"	22UF28 †	100
	7/32"	1"	22UF29 †	100
#6	5/32"	5/8"	22UF23	100
	5/32"	9/16"	22UF24	100
#8	3/16"	3/4"	6YY51	100
1/8"	5/32"	3/4"	1VHF1	100
5/32"	3/16"	7/8"	6ULA4	100
3/16"	3/16"	1/2"	22UF26	100
	13/64"	3/4"	6ULA5	100
	13/64"	1"	6ULA6	100
	13/64"	1 1/4"	6ULA7	100
	7/32"	1 1/2"	22UF31	100
		1 1/4"	53GK10	100
	3/16"	1"	1VHF4	100
	3/16"	3/4"	19NP76	100
1/4"	9/32"	1"	6YY54	100
	9/32"	1 1/4"	6YY55	100
	9/32"	1 1/2"	6YY56	100
	9/32"	1 1/2"	6ULA8	100
	9/32"	1/2"	22UF32	100
	9/32"	9/16"	22UF33	100
	9/32"	7/8"	22UF34	100
	9/32"	2"	22UF38	100
	9/32"	2 1/2"	22UF39	100
	9/32"	3"	22UF40	100
	9/32"	1 1/2"	22UF36 †	100
	9/32"	1 1/2"	22UF37 †	100
	9/32"	1 3/4"	35HV74	100
5/16"	11/32"	1 1/4"	6YY57	100
	11/32"	1 1/2"	6YY58	100
	11/32"	1 5/8"	6ULA9	100
	11/32"	1 1/2"	6ULC0	100
	11/32"	2"	6ULC1	50
	11/32"	5/8"	22UF41	100
	11/32"	2"	22UF42	100
	11/32"	2 1/2"	22UF46	100
	11/32"	3"	22UF47	100
	11/32"	2"	22UF44 †	100
	11/32"	2"	22UF45 †	100
	11/32"	7/8"	35HV75	100
	11/32"	1"	35HV76	100
	11/32"	1 3/4"	35HV77	100
3/8"	13/32"	1 1/4"	6YY59	100
	13/32"	1 1/2"	6YY60	100
	13/32"	2"	6YY61	100
	13/32"	1 1/2"	6ULC2	100
	13/32"	2"	6ULC3	100
	13/32"	1 5/8"	22UF48	100
	13/32"	3"	22UF51	100
	13/32"	2"	22UF49 †	100
	13/32"	2"	22UF50 †	100
	13/32"	1 3/4"	35HV78	100
1/2"	17/32"	1 1/2"	6YY62	50
	17/32"	2"	6YY63	50
	17/32"	1 1/2"	6ULC4	50
	17/32"	2"	6ULC5	50
	17/32"	3"	22UF54	50
	9/16"	3"	22UF55 †	50
	17/32"	2"	22UF52 †	50
	17/32"	1 1/4"	35HV79	50
	17/32"	1 3/4"	35HV80	50
	17/32"	2 1/2"	35HV81	50
5/8"	11/16"	3"	22UF58 †	25
	11/16"	2 1/2"	22UF56 †	25
	11/16"	2 1/2"	22UF57 †	25
3/4"	25/32"	3"	22UF59 †	20
	25/32"	3"	22UF60 †	20
	25/32"	3"	22UF61 †	20
7/8"	15/16"	3"	22UF62 †	10
	15/16"	3 1/4"	22UF63 †	10
	15/16"	3 1/4"	22UF64 †	10
1"	1 1/16"	3 1/4"	22UF66 †	5
	1 1/16"	3 1/2"	22UF67 †	5
	1 1/16"	3 1/2"	22UF68 †	5
M10	10.5mm	30-mm	22UE73	100
M12	13mm	37-mm	22UE74	100
M16	17mm	50-mm	6EY41 *	25
M2.5	2.7mm	8-mm	29DJ19	100
M20	22mm	60-mm	6EY43 *	10
M3	3.2mm	9-mm	6EY27 *	100
M4	4.3mm	12-mm	6EY29 *	100
M5	5.3mm	15-mm	6EY31 *	100
M6	6.4mm	18-mm	6EY33 *	100
M8	8.4mm	24-mm	6EY35 *	100
Steel Zinc Plated Finish				
1/2"	17/32"	2"	22UF53 †	50
7/8"	15/16"	3 1/4"	22UF65 †	10
1"	1 1/16"	3 1/2"	22UF69 †	5
1 1/4"	1 3/8"	4"	22UF70 †	5

** DIN 9021B. † ASME/ANSI B18.22.1*

DISC-LOCK INTERNATIONAL

Self-Locking Standard Washers

Heavy-duty structural washers resist shock and vibration in high-stress applications.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Carbon Steel Delta Protect Finish				
1/4 in	0.262 in	0.495 in	36RL65	200
5/16 in	0.326 in	0.628 in	36RL66	200
3/8 in	0.409 in	0.705 in	36RL67	200
7/16 in	0.45 in	0.88 in	36RL68	100
1/2 in	0.51 in	0.937 in	36RL69	100
9/16 in	0.572 in	1.128 in	36RL70	100
5/8 in	0.651 in	1.247 in	36RL71	100
3/4 in	0.82 in	1.381 in	36RL72	100
7/8 in	0.883 in	1.47 in	36RL73	100
1 in	1.015 in	1.61 in	36RL74	100
1 1/8 in	1.14 in	1.715 in	36RL75	25
1 1/4 in	1.275 in	1.875 in	36RL76	25
1 3/8 in	1.469 in	2.196 in	36RL77	25
1 1/2 in	1.523 in	2.196 in	36RL78	25
6mm	6.66 mm	12.6 mm	36RL48	200
8mm	8.28 mm	16.0 mm	36RL49	200
10mm	10.38 mm	17.9 mm	36RL50	200
11mm	11.43 mm	22.4 mm	36RL51	100
12mm	12.95 mm	23.8 mm	36RL52	100
14mm	14.53 mm	28.7 mm	36RL53	100
16mm	16.53 mm	31.7 mm	36RL54	100
20mm	20.82 mm	35.1 mm	36RL55	100
22mm	22.44 mm	37.3 mm	36RL56	100
24mm	25.78 mm	41.3 mm	36RL57	100
27mm	28.96 mm	43.6 mm	36RL58	25
30mm	32.39 mm	47.6 mm	36RL59	25
36mm	37.3 mm	55.8 mm	36RL60	25
38mm	38.68 mm	55.8 mm	36RL61	25
Carbon Steel Zinc Finish				
#6	0.15 in	0.34 in	36RL62	200
#8	0.175 in	0.34 in	36RL63	200
3/16 in	0.203 in	0.401 in	36RL64	200
3mm	3.81 mm	8.6 mm	36RL45	200
4mm	4.45 mm	8.6 mm	36RL46	200
5mm	5.15 mm	10.2 mm	36RL47	200
Stainless Steel Plain Finish				
3/16 in	0.203 in	0.401 in	36RL79	200
1/4 in	0.262 in	0.495 in	36RL80	200
5/16 in	0.326 in	0.628 in	36RL81	200
3/8 in	0.409 in	0.705 in	36RL82	200
7/16 in	0.45 in	0.88 in	36RL83	200
1/2 in	0.51 in	0.937 in	36RL84	100
9/16 in	0.572 in	10.128 in	36RL85	100
5/8 in	0.651 in	10.247 in	36RL86	100
3/4 in	0.82 in	10.381 in	36RL87	100
7/8 in	0.883 in	10.47 in	36RL88	50
1 in	10.015 in	10.626 in	36RL89	50
5mm	5.15 mm	10.2 mm	36RL90	200
6mm	6.66 mm	12.6 mm	36RL91	200
8mm	8.28 mm	16.0 mm	36RL92	200
10mm	10.38 mm	17.9 mm	36RL93	200
11mm	11.43 mm	22.4 mm	36RL94	200
12mm	12.95 mm	23.8 mm	36RL95	100
14mm	14.53 mm	28.7 mm	36RL96	100
16mm	16.53 mm	31.7 mm	36RL97	100
20mm	20.82 mm	35.1 mm	36RL98	100
22mm	22.44 mm	37.3 mm	36RL99	50
24mm	25.78 mm	41.3 mm	36RM01	50

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
254 SMO Stainless Steel, Plain Finish					
#5	0.13 in	0.28 in	0.09 in	12W485	10
#6	0.15 in	0.3 in	0.09 in	12W486	10
	0.15 in	0.35 in	0.09 in	12W487	10
#8	0.17 in	0.3 in	0.09 in	12W488	10
	0.17 in	0.35 in	0.09 in	12W489	10
#10	0.21 in	0.35 in	0.09 in	12W490	10
	0.21 in	0.43 in	0.09 in	12W491	10
¼ in	0.28 in	0.45 in	0.09 in	12W494	10
	0.28 in	0.53 in	0.09 in	12W495	10
5/16 in	0.34 in	0.53 in	0.08 in	12W496	10
	0.34 in	0.65 in	0.08 in	12W497	10
⅜ in	0.41 in	0.65 in	0.08 in	12W498	10
	0.41 in	0.83 in	0.08 in	12W499	6
7/16 in	0.45 in	0.73 in	0.09 in	12W503	6
½ in	0.53 in	0.77 in	0.08 in	13K477	6
	0.53 in	1.0 in	0.13 in	13K478	4
9/16 in	0.6 in	0.91 in	0.13 in	13K479	4
	0.6 in	1.21 in	0.13 in	13K480	3
⅝ in	0.67 in	1.0 in	0.12 in	13K481	4
	0.67 in	1.21 in	0.1 in	13K482	3
¾ in	0.79 in	1.21 in	0.13 in	13K485	3
	0.79 in	1.54 in	0.13 in	13K486	2
⅞ in	0.92 in	1.36 in	0.13 in	13K489	2
	0.92 in	1.65 in	0.13 in	13K490	1
1 in	1.1 in	1.54 in	0.13 in	13K493	2
	1.1 in	1.91 in	0.13 in	13K494	1
1⅛ in	1.24 in	1.85 in	0.22 in	13K497	1
1¼ in	1.35 in	1.91 in	0.22 in	13K499	1
1⅜ in	1.47 in	2.17 in	0.22 in	13K501	1
1½ in	1.59 in	2.3 in	0.22 in	13K502	1
316 Stainless Steel, Plain Finish					
#5	0.13 in	0.28 in	0.09 in	5RUW1	200
#6	0.15 in	0.3 in	0.09 in	5RUW3	200
	0.15 in	0.35 in	0.09 in	5RUW5	200
#8	0.17 in	0.3 in	0.09 in	5RUW7	200
	0.17 in	0.35 in	0.09 in	5RUW9	200
#10	0.21 in	0.35 in	0.09 in	5RUX1	200
	0.21 in	0.43 in	0.09 in	5RUX3	200
¼ in	0.28 in	0.45 in	0.09 in	5RUX9	200
	0.28 in	0.53 in	0.09 in	5RUY1	200
5/16 in	0.34 in	0.53 in	0.08 in	5RUY3	200
	0.34 in	0.65 in	0.08 in	5RUY5	200
⅜ in	0.41 in	0.65 in	0.08 in	5RUY7	200
	0.41 in	0.83 in	0.09 in	5RUY9	200
7/16 in	0.45 in	0.73 in	0.09 in	5RUZ5	200
½ in	0.53 in	0.77 in	0.09 in	5RVA1	200
	0.53 in	1.0 in	0.13 in	5RVA3	100
9/16 in	0.6 in	0.91 in	0.13 in	5URY8	100
	0.6 in	1.21 in	0.13 in	5URZ0	100
⅝ in	0.67 in	1.0 in	0.12 in	5URZ2	100
	0.67 in	1.21 in	0.12 in	5URZ4	100
¾ in	0.79 in	1.21 in	0.13 in	5UTA0	100
	0.79 in	1.54 in	0.13 in	5UTA2	100
⅞ in	0.92 in	1.36 in	0.13 in	5UTA8	100
	0.92 in	1.65 in	0.13 in	5UTC0	50
1 in	1.1 in	1.54 in	0.13 in	5UTC6	100
	1.1 in	1.91 in	0.13 in	5UTC8	50
1⅛ in	1.24 in	1.85 in	0.27 in	5UTD4	50
	1.24 in	2.3 in	0.27 in	5UTD6	25
1¼ in	1.35 in	1.91 in	0.27 in	5UTD8	25
1⅜ in	1.47 in	2.17 in	0.27 in	5UTE1	25
1½ in	1.59 in	2.3 in	0.27 in	5UTE4	25
1¾ in	1.82 in	2.76 in	0.27 in	5UTE8	1
2 in	2.11 in	3.15 in	0.35 in	5UTF2	1
2¼ in	2.33 in	3.35 in	0.35 in	5UTF4	1
2½ in	2.64 in	3.74 in	0.35 in	5UTF8	1
3 in	3.11 in	4.33 in	0.35 in	5UTG4	1
EN 1.7182 Carbon Steel					
#5	0.13 in	0.28 in	0.07 in	12W437	20
#6	0.15 in	0.3 in	0.07 in	12W438	20
	0.15 in	0.35 in	0.07 in	12W439	20
#8	0.17 in	0.3 in	0.07 in	12W440	20
	0.17 in	0.35 in	0.07 in	12W441	20
#10	0.21 in	0.35 in	0.07 in	12W442	20
	0.21 in	0.43 in	0.07 in	12W443	20
¼ in	0.28 in	0.45 in	0.07 in	12W446	20
	0.28 in	0.53 in	0.1 in	12W447	20
5/16 in	0.34 in	0.53 in	0.1 in	12W448	20
	0.34 in	0.65 in	0.1 in	12W449	20
⅜ in	0.41 in	0.65 in	0.1 in	12W450	20
	0.41 in	0.83 in	0.1 in	12W451	10
7/16 in	0.45 in	0.73 in	0.1 in	12W454	10
½ in	0.53 in	0.77 in	0.1 in	12W457	10
	0.53 in	1.0 in	0.13 in	12W458	8
9/16 in	0.6 in	0.91 in	0.13 in	12W459	10
	0.6 in	1.21 in	0.13 in	12W460	4
⅝ in	0.67 in	1.0 in	0.13 in	12W461	8
	0.67 in	1.21 in	0.13 in	12W462	4
¾ in	0.79 in	1.21 in	0.13 in	12W465	4
	0.79 in	1.54 in	0.13 in	12W466	2
⅞ in	0.92 in	1.36 in	0.13 in	12W469	2
	0.92 in	1.65 in	0.18 in	12W470	2
1 in	1.1 in	1.54 in	0.13 in	12W473	2
	1.1 in	1.91 in	0.18 in	12W474	1
1⅛ in	1.24 in	1.85 in	0.23 in	12W477	1
	1.24 in	2.3 in	0.26 in	12W478	1
1¼ in	1.35 in	1.91 in	0.23 in	12W479	1
	1.35 in	2.3 in	0.26 in	12W480	1
1⅜ in	1.47 in	2.17 in	0.26 in	12W481	1
	1.47 in	2.48 in	0.26 in	12W482	1
1½ in	1.59 in	2.3 in	0.26 in	12W483	1
Metric 254 SMO Stainless Steel, Plain Finish					
M6	0.26 in	0.43 in	0.09 in	12W492	10
	0.26 in	0.53 in	0.08 in	12W493	10
M10	0.42 in	0.65 in	0.08 in	12W501	10
	0.42 in	0.83 in	0.08 in	12W502	6
M12	0.51 in	0.77 in	0.08 in	12W504	6
	0.51 in	1.0 in	0.12 in	12W505	4
M18	0.77 in	1.14 in	0.13 in	13K483	3
	0.77 in	1.36 in	0.13 in	13K484	2
M20	0.84 in	1.21 in	0.12 in	13K487	3
	0.84 in	1.54 in	0.13 in	13K488	2
M24	1.0 in	1.54 in	0.13 in	13K491	2
	1.0 in	1.91 in	0.13 in	13K492	1
M27	1.12 in	1.65 in	0.22 in	13K495	1
	1.12 in	1.91 in	0.22 in	13K496	1
Metric 316 Stainless Steel, Plain Finish					
M6	6.5 mm	10.8 mm	2.2 mm	5RUX5	200
	6.5 mm	13.5 mm	2 mm	5RUX7	200
M10	10.7 mm	16.6 mm	2 mm	5RUZ1	200
	10.7 mm	21.0 mm	2 mm	5RUZ3	200
M12	13.0 mm	19.5 mm	2 mm	5RUZ7	200
	13.0 mm	25.4 mm	3 mm	5RUZ9	100
M18	19.5 mm	29.0 mm	3.2 mm	5URZ6	100
	19.5 mm	34.5 mm	3.2 mm	5URZ8	100
M20	21.4 mm	30.7 mm	3 mm	5UTA4	100
	21.4 mm	39.0 mm	3.2 mm	5UTA6	100
M24	25.3 mm	39.0 mm	3.2 mm	5UTC2	100
	25.3 mm	48.5 mm	3.2 mm	5UTC4	50
M27	28.4 mm	42.0 mm	6.8 mm	5UTD0	50
	28.4 mm	48.5 mm	6.8 mm	5UTD2	25
M42	43.2 mm	63.0 mm	6.8 mm	5UTE6	25
M48	49.6 mm	75.0 mm	6.8 mm	5UTF0	1
M60	63.1 mm	90.0 mm	9 mm	5UTF6	1
M68	71.1 mm	100.0 mm	9 mm	5UTG0	1
M72	75.1 mm	105.0 mm	9 mm	5UTG2	1
M80	83.1 mm	115.0 mm	9 mm	5UTG6	1
Metric EN 1.7182 Carbon Steel					
M6	0.26 in	0.43 in	0.07 in	12W444	20
	0.26 in	0.53 in	0.1 in	12W445	20
M10	0.42 in	0.65 in	0.1 in	12W452	20
	0.42 in	0.83 in	0.1 in	12W453	10
M12	0.51 in	0.77 in	0.1 in	12W455	10
	0.51 in	1.0 in	0.13 in	12W456	8
M18	0.77 in	1.14 in	0.13 in	12W463	4
	0.77 in	1.36 in	0.13 in	12W464	2
M20	0.84 in	1.21 in	0.13 in	12W467	4
	0.84 in	1.54 in	0.13 in	12W468	2
M24	1.0 in	1.54 in	0.13 in	12W471	2
	1.0 in	1.91 in	0.18 in	12W472	2
M27	1.12 in	1.65 in	0.26 in	12W475	1
	1.12 in	1.91 in	0.26 in	12W476	1
M42	1.7 in	2.48 in	0.26 in	12W484	1
Metric Steel, Delta Protect Finish					
M6	6.5 mm	10.8 mm	1.8 mm	5RUX6	200
	6.5 mm	13.5 mm	2.5 mm	5RUX8	200
M10	10.7 mm	16.6 mm	2.5 mm	5RUZ2	200
	10.7 mm	21.0 mm	2.5 mm	5RUZ4	200
M12	13.0 mm	19.5 mm	2.5 mm	5RUZ8	200
	13.0 mm	25.4 mm	3.4 mm	5RVA0	100
M18	19.5 mm	29.0 mm	3.4 mm	5URZ7	100
	19.5 mm	34.5 mm	3.4 mm	5URZ9	100
M20	21.4 mm	30.7 mm	3.4 mm	5UTA5	100
	21.4 mm	39.0 mm	3.4 mm	5UTA7	100
M24	25.3 mm	39.0 mm	3.4 mm	5UTC3	100
	25.3 mm	48.5 mm	4.6 mm	5UTC5	50
M27	28.4 mm	42.0 mm	6.6 mm	5UTD1	50
	28.4 mm	48.5 mm	6.6 mm	5UTD3	25
M42	43.2 mm	63.0 mm	6.6 mm	5UTE7	25
M48	49.6 mm	75.0 mm	7 mm	5UTF1	1
M60	63.1 mm	90.0 mm	7 mm	5UTF7	1
M68	71.1 mm	100.0 mm	9.5 mm	5UTG1	1
M85	88.1 mm	120.0 mm	9.5 mm	5UTG7	1

NORD-LOCK
Bolt securing systems

Nord-Lock® Bolt Securing Systems

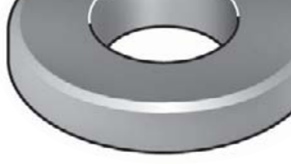
Provides safe locking for bolted joints, even when exposed to severe vibration and dynamic loads. Features wedge-locking action; bolt is locked with the tension created between the 2 washers. Rotation of bolt/nut is blocked by wedge effect of cams. Meets DIN 25201 standards.

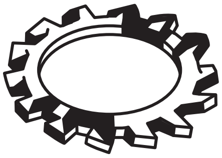
Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M90	92.4 mm	130.0 mm	9.5 mm	5UTG8	1
M100	103.4 mm	145.0 mm	9.5 mm	5UTG9	1
M105	108.4 mm	150.0 mm	9.5 mm	5UTH0	1
M110	113.4 mm	155.0 mm	9.5 mm	5UTH1	1
M115	118.4 mm	165.0 mm	9.5 mm	5UTH2	1
M120	123.4 mm	170.0 mm	9.5 mm	5UTH3	1
M125	128.4 mm	173.0 mm	9.5 mm	5UTH4	1
M130	133.4 mm	178.0 mm	9.5 mm	5UTH5	1
Steel, Delta Protect Finish					
#5	0.13 in	0.28 in	0.07 in	5RUW2	200
#6	0.15 in	0.3 in	0.07 in	5RUW4	200
	0.15 in	0.35 in	0.07 in	5RUW6	200
#8	0.17 in	0.3 in	0.07 in	5RUW8	200
	0.17 in	0.35 in	0.07 in	5RUX0	200
#10	0.21 in	0.35 in	0.07 in	5RUX2	200
	0.21 in	0.43 in	0.07 in	5RUX4	200
¼ in	0.28 in	0.45 in	0.07 in	5RUY0	200
	0.28 in	0.53 in	0.1 in	5RUY2	200
5/16 in	0.34 in	0.53 in	0.1 in	5RUY4	200
	0.34 in	0.65 in	0.1 in	5RUY6	200
⅜ in	0.41 in	0.65 in	0.1 in	5RUY8	200
	0.41 in	0.83 in	0.1 in	5RUZ0	200
7/16 in	0.45 in	0.73 in	0.1 in	5RUZ6	200
½ in	0.53 in	0.77 in	0.1 in	5RVA2	200
	0.53 in	1.0 in	0.13 in	5URY7	100
9/16 in	0.6 in	0.91 in	0.13 in	5URY9	100
	0.6 in	1.21 in	0.13 in	5URZ1	100
⅝ in	0.67 in	1.0 in	0.13 in	5URZ3	100
	0.67 in	1.21 in	0.13 in	5URZ5	100
¾ in	0.79 in	1.21 in	0.13 in	5UTA1	100
	0.79 in	1.54 in	0.13 in	5UTA3	100
⅞ in	0.92 in	1.36 in	0.13 in	5UTA9	100
	0.92 in	1.65 in	0.18 in	5UTC1	50
1 in	1.1 in	1.54 in	0.13 in	5UTC7	100
	1.1 in	1.91 in	0.18 in	5UTC9	50
1⅛ in	1.24 in	1.85 in	0.13 in	5UTD5	50
	1.24 in	2.3 in	0.26 in	5UTD7	25
1¼ in	1.35 in	1.91 in	0.26 in	5UTD9	25
	1.35 in	2.3 in	0.26 in	5UTE0	25
1⅜ in	1.47 in	2.17 in	0.26 in	5UTE2	25
	1.47 in	2.48 in	0.26 in	5UTE3	25
1½ in	1.59 in	2.3 in	0.26 in	5UTE5	25
1¾ in	1.82 in	2.76 in	0.28 in	5UTE9	1
2 in	2.11 in	3.15 in	0.28 in	5UTF3	1
2¼ in	2.33 in	3.35 in	0.28 in	5UTF5	1
2½ in	2.64 in	3.74 in	0.28 in	5UTF9	1
3 in	3.11 in	4.33 in	0.37 in	5UTG5	1

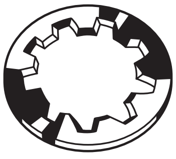
Beveled Flat Washers

Extra-thick "Williams type" flat washers are machined, not stamped, with a large chamfer along the outer top edge.

		18-8 STAINLESS STEEL		LOW CARBON STEEL		CASE HARDENED STEEL	
Fits Bolt Sizes	Washer Outside Dia.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
#10	½ in	1JYA9	5	5RU89	25	5RU90	25
¼ in	⅝ in	1JYB1	5	5RU91	25	5RU92	25
5/16 in	¾ in	1JYB2	5	5RU93	25	5RU94	25
⅜ in	⅞ in	1JYB3	5	5RU95	25	5RU96	25
7/16 in	1 in	1JYB4	5	5RU97	10	5RU98	10
½ in	1 in	1JYB5	2	5RU99	10	5RY10	10
⅝ in	1 ¼ in	1JYB6	2	5RY11	10	5RY12	10
¾ in	1 ½ in	1JYB7	1	5RY13	10	5RY14	10
⅞ in	1 ¾ in	1JYB8	1	5RY15	5	5RY16	5
1 in	2 in	1JYB9	1	5RY17	1	5RY18	1
1⅛ in	2 ¼ in	1JYC1	1	5RY19	1	5RY20	1
1¼ in	2 ¼ in	1JYC2	1	5RY21	1	5RY22	1



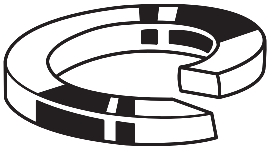




Internal and External Tooth Lock Washers

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Countersunk External Tooth, Type A			
Steel, Zinc			
#6	0.289 in	19NT95	100
#8	0.322 in	19NT96	100
#12	0.421 in	19NT98	100
¼ in	0.454 in	19NT99	100
5/16 in	0.599 in	19NU01	100
⅜ in	0.765 in	19NU02	50
External Tooth			
#6	0.32 in	6DZC4	100
#8	0.381 in	6DZC5	100
External Tooth, Closed Perimeter			
A2 Stainless Steel, Plain			
M5	9.0 mm	29DJ75	50
M8	14 mm	29DJ76	50
M10	18.0 mm	6FE71	50
M16	26.0 mm	6FE75	10
Steel, Zinc			
M3	6.0 mm	25DN34	100
	6.0 mm	29DJ09	100
M4	8.0 mm	25DN35	100
	8.0 mm	29DJ10	100
M5	9.0 mm	25DN36	100
	10.0 mm	29DJ04	100
	10.0 mm	29DJ11	100
M6	11.0 mm	25DN37	100
	11.0 mm	29DJ12	100
M8	14 mm	25DN38	100
	15.0 mm	29DJ05	100
M12	20.5 mm	29DJ06	50
M16	26.0 mm	25DN40	25
External Tooth, Open Perimeter			
A2 Stainless Steel, Plain			
M3	6.0 mm	22UJ98	50
M4	8.0 mm	22UK23	50
M5	10.0 mm	22UK26	50
M6	11.0 mm	22UK27	50
M16	26.0 mm	6FE59	10
External Tooth, Type A			
18-8 Stainless Steel, Plain			
#4	0.245 in	23NJ69	50
#6	0.305 in	23NJ70	50
#8	0.365 in	23NJ71	50
#10	0.395 in	23NJ72	50
¼ in	0.494 in	19NP58	50
5/16 in	0.588 in	19NP59	50
⅜'	0.67 in	23NJ75	50
½ in	0.88 in	23NJ76	10
316 Stainless Steel, Plain			
#3	0.23 in	1EAL1	50
#5	0.27 in	19NP66	50
#8	0.365 in	19NP68	50
#10	0.395 in	19NP69	50
410 Stainless Steel, Plain			
#4	0.245 in	23NK01	50
Steel, Zinc			
#4	0.26 in	2DB46	100
#6	0.32 in	2DB48	100
#8	0.381 in	2DB50	100
#10	0.41 in	2DB52	100
#12	0.475 in	2DB54	100
¼ in	0.51 in	2DB56	100
5/16 in	0.61 in	2DB58	100
⅜ in	0.67 in	22UJ28	50
7/16 in	0.74 in	22UJ29	25
½ in	0.88 in	22UJ30	25
9/16 in	0.96 in	22UJ31	25
⅝ in	1.045 in	22UJ32	10
¾ in	1.22 in	22UJ33	10
⅞ in	1.38 in	25DM98	5
1 in	1.59 in	25DM99	5
External Toothed, Closed Perimeter			
A2 Stainless Steel, Plain			
M3	6.0 mm	23NJ91	50
M4	8.0 mm	23NJ94	50
M5	10.0 mm	23NJ95	50
M6	11.0 mm	23NJ96	50
M8	15.0 mm	23NJ97	50
M20	33.0 mm	23NJ98	5
M24	38.0 mm	23NJ99	5
External Toothed, Open Perimeter			
M8	15.0 mm	23NJ39	50
M10	18.0 mm	23NJ40	50
M12	20.5 mm	23NJ41	25
M14	24.0 mm	23NJ42	25
Internal/External Tooth, Type A			
Steel, Zinc			
#4	0.475 in	2DB72	100
#6	0.51 in	2DB74	100
#8	0.61 in	2DB76	100
#10	0.61 in	2DB78	100
¼ in	0.76 in	2DB80	100
5/16 in	0.9 in	2DB82	100
⅜ in	1.13 in	22UJ43	50
½ in	1.38 in	22UJ44	25
Internal Tooth			
#4	0.27 in	6DZC6	100
#6	0.295 in	6DZC7	100
#8	0.34 in	6DZC8	100
¼ in	0.478 in	6DZD0	100
#10	17.57 mm	6DZC9	100
Internal Tooth, Closed Perimeter			
M8.2	—	25DN42	100
M12	20.5 mm	25DN44	50
Internal Tooth, Heavy Duty Type A			
Steel, Plain			
⅜ in	1.7 in	22UH79	50
Steel, Zinc			
¼ in	0.5 in	22UJ15	100
5/16 in	0.59 in	22UJ16	100
½ in	0.88 in	22UJ18	25
⅝ in	1.1 in	22UJ19	10
¾ in	1.24 in	22UJ20	10
Internal Tooth, Open Perimeter			
A2 Stainless Steel, Plain			
M2	4.5 mm	23NJ44	50
M3	6.0 mm	23NJ62	50
M4	8.0 mm	23NJ63	50
M5	10.0 mm	23NJ67	50
M6	11.0 mm	23NJ73	50
M8	15.0 mm	23NJ74	50
M10	18.0 mm	23NJ88	50
M12	20.5 mm	22UK24	25
M14	24.0 mm	23NJ89	25
M16	26.0 mm	22UK25	10
Steel, Furnace Black			
M3	6.0 mm	6FY25	100
M4	8.0 mm	6FY28	100
M5	10.0 mm	6FY31	100
M6	11.0 mm	6FY33	100
M8	15.0 mm	6FY35	100
M10	18.0 mm	6FY37	100
Steel, Plain			
M12	20.5 mm	22UK18	50
Internal Tooth, Type A			
18-8 Stainless Steel, Plain			
#4	0.245 in	23NJ58	50
#6	0.275 in	23NJ59	50
#8	0.325 in	23NJ60	50
#10	0.365 in	23NJ61	50
¼ in	0.46 in	19NP60	50
5/16 in	0.594 in	19NP61	50
⅜ in	0.67 in	23NJ64	50
½ in	0.867 in	23NJ65	10
9/16 in	0.957 in	23NJ66	10
⅝ in	1.045 in	19NP62	10
¾ in	1.22 in	23NJ68	5
316 Stainless Steel, Plain			
#4	0.265 in	1EAL7	50
#6	0.288 in	1EAL8	50
#8	0.336 in	1EAL9	50
#10	0.365 in	19NP70	50
¼ in	0.46 in	23NJ92	50
5/16 in	0.594 in	23NJ93	50
⅜ in	0.67 in	22UJ23	50
Steel, Plain			
¼ in	0.5 in	19NP71	100
5/16 in	0.59 in	19NP72	100
½ in	0.88 in	19NP73	25
⅝ in	1.1 in	19NP74	10
¾ in	1.24 in	19NP75	10
Steel, Zinc			
#2	0.2 in	2DB88	100
#4	0.27 in	2DB90	100
#6	0.295 in	2DB93	100
#8	0.34 in	2DB96	100
#10	0.381 in	2DB99	100
#12	0.41 in	2DE12	100
¼ in	0.478 in	2DE14	100
5/16 in	0.61 in	2DE16	100
⅜ in	0.67 in	22UJ13	50
7/16 in	0.74 in	22UJ14	25
½ in	0.867 in	19NU03	25
9/16 in	0.957 in	25DM95	25
⅝ in	1.045 in	19NU04	10
¾ in	1.22 in	19NU05	10
⅞ in	1.364 in	25DM96	5
1 in	1.59 in	25DM97	5

Split Lock Washers



Metric
- Meet DIN 127B standards

Standard
- Meet ASME B18 standards

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel, Plain			
#2	0.172 in	22UJ21	50
#3	0.195 in	22UJ22	50
#4	0.209 in	23NJ45	50
#5	0.236 in	22UJ69	50
#6	0.25 in	23NJ46	50
#8	0.293 in	23NJ47	50
#10	0.334 in	23NJ48	50
#12	0.377 in	23NJ49	50
¼ in	0.487 in	23NJ50	50
5/16 in	0.583 in	23NJ51	50
⅜ in	0.68 in	23NJ52	50
7/16 in	0.77 in	23NJ53	25
½ in	0.869 in	23NJ54	10
9/16 in	0.965 in	22UJ70	10
⅝ in	1.073 in	23NJ55	10
¾ in	1.265 in	23NJ56	5
⅞ in	1.459 in	23NJ57	5
1 in	1.656 in	22UJ71	5
1⅛ in	1.847 in	19NP80	5
1½ in	2.419 in	19NP82	5
316 Stainless Steel, Plain			
#2	0.172 in	29DU17	50
#4	0.209 in	23NJ77	50
#6	0.25 in	23NJ78	50
#8	0.293 in	23NJ79	50
#10	0.334 in	23NJ80	50
#12	0.377 in	29DU19	50
¼ in	0.487 in	23NJ81	50
5/16 in	0.583 in	23NJ82	50
⅜'	0.68 in	23NJ83	50
7/16 in	0.77 in	23NJ84	25
½ in	0.869 in	23NJ85	10
⅝ in	1.073 in	23NJ86	10
¾ in	1.265 in	23NJ87	5
⅞ in	1.459 in	22UJ78	5
1 in	1.656 in	1NY79	5
1½ in	2.419 in	22UJ82	5
A2 Stainless Steel, Plain			
M2	4.4 mm	22UJ45	50
M2.5	5.1 mm	22UJ46	50
M2.6	5.2 mm	22UJ56	50
M3	6.2 mm	22UJ57	50
M3.5	6.7 mm	22UJ58	50
M4	7.6 mm	22UJ60	50
M5	9.2 mm	22UJ61	50
M6	11.8 mm	22UJ72	50
M8	14.8 mm	22UJ73	50
M10	18.1 mm	22UJ74	50
M12	21.1 mm	22UK20	25
M14	24.1 mm	22UJ79	25
M16	27.4 mm	22UK21	10
M18	29.4 mm	22UJ80	10
M20	33.6 mm	22UK22	5
M22	35.9 mm	25DN45	5
M24	40.0 mm	22UJ81	5
A4 Stainless Steel, Plain			
M2	4.4 mm	22UK28	50
M2.5	5.1 mm	22UK29	50
M3	6.2 mm	22UK30	50
M4	7.6 mm	22UK31	50
M5	9.2 mm	22UK32	50
M6	11.8 mm	23NK10	50
M8	14.8 mm	23NK11	50
M10	18.1 mm	23NK12	50
M12	21.1 mm	23NK13	25
M14	24.1 mm	6FA87	25
M16	27.4 mm	22UK33	10
M18	29.4 mm	22UK34	10
M20	33.6 mm	22UK35	5
M24	40.0 mm	6FA95	5
SAE 1050-1065 Spring Steel, Plain			
5/16 in	0.583 in	6DYV2	100
1 in	1.656 in	6DYV3	50
SAE 1050-1065 Spring Steel, Zinc-Plated Steel			
#6	0.25 in	6DYU5	100
#8	0.293 in	6DYU6	100
#10	0.334 in	6DYU7	100
#12	0.377 in	6DYU8	100
¼ in	0.487 in	6DYU9	100
5/16 in	0.583 in	6DYV0	100
⅜ in	0.68 in	6DYV1	100
Silicon Bronze, Plain			
#4	0.209 in	1NU87	100
#6	0.25 in	1NU88	100
#8	0.293 in	29DN19	100
#10	0.334 in	29DN20	100
¼ in	0.487 in	25DN04	100
5/16 in	0.583 in	25DN05	100
⅜ in	0.68 in	25DN06	50
⅝ in	1.073 in	1NU95	25
¾ in	1.265 in	1NU96	10
Spring Steel, Furnace Black			
M2	4.4 mm	6FB39	100
M2.5	5.1 mm	6FB41	100
Steel, Furnace Black			
M3	6.2 mm	6FB45	100
M3.5	6.7 mm	6FB47	100
M4	7.6 mm	6FB49	100
M5	9.2 mm	6FB51	100
M6	11.8 mm	6FB53	100
M8	14.8 mm	6FB55	100
M10	18.1 mm	6FB57	100
Steel, Galvanized			
¼ in	0.487 in	1JY98	100
5/16 in	0.583 in	1BUK7	100
⅜ in	0.68 in	22UJ62	50
½ in	0.869 in	22UJ63	25
⅝ in	1.073 in	22UJ64	10
¾ in	1.265 in	22UJ65	10
⅞ in	1.459 in	22UJ66	5
1 in	1.656 in	22UJ67	5
1⅛ in	1.847 in	22UJ68	5
1¼ in	2.036 in	23NJ43	5
1⅜ in	2.219 in	29DM95	5
1½ in	2.419 in	19NP26	5
2 in	2.936 in	29DM99	5
2½ in	3.471 in	29DN01	5
Steel, Plain			
#2	0.172 in	19NP06	100
#3	0.195 in	19NP07	100
#4	0.209 in	19NP08	100
#5	0.236 in	19NP09	100
#6	0.25 in	19NP10	100
#8	0.293 in	19NP11	100
#10	0.334 in	19NP12	100
#12	0.377 in	19NP13	100
¼ in	0.487 in	19NP14	100
5/16 in	0.583 in	1BUH5	100
⅜ in	0.68 in	22UH32	50
7/16 in	0.77 in	22UH33	25
½ in	0.869 in	22UH34	25
9/16 in	0.965 in	22UH35	25
⅝ in	1.073 in	22UH36	10
¾ in	1.265 in	22UH37	10
⅞ in	1.459 in	22UH38	5
1 in	1.656 in	22UH39	5
1⅛ in	1.847 in	22UH40	5
1¼ in	2.036 in	23NJ33	5
1⅜ in	2.219 in	22UH41	5
1½ in	2.419 in	22UH42	5
2 in	2.936 in	19NP18	5
3 in	4.074 in	22UH43	5
M7	12.8 mm	25DN10	100
M12	21.1 mm	22UK04	50
M14	24.1 mm	22UK05	50
M16	27.4 mm	22UK06	25
M18	29.4 mm	22UK07	25
M20	33.6 mm	22UK08	10
M22	35.9 mm	25DN11	10
M24	40.0 mm	22UK09	10
M27	43.0 mm	25DN12	5
M30	48.2 mm	25DN13	5
M36	58.2 mm	25DN15	2
M42	68.2 mm	25DN16	2
Steel, Yellow Zinc			
¼ in	0.487 in	2DB26	100
5/16 in	0.583 in	2DB28	100
⅜ in	0.68 in	22UJ47	50
7/16 in	0.77 in	22UJ48	25
½ in	0.869 in	22UJ49	25
9/16 in	0.965 in	22UJ50	25
⅝ in	1.073 in	22UJ51	10
¾ in	1.265 in	22UJ52	10
⅞ in	1.459 in	22UJ53	5
1 in	1.656 in	22UJ54	5
1⅛ in	1.847 in	22UJ55	5
1¼ in	2.036 in	19NT85	5
1½ in	2.419 in	19NT87	5
1¾ in	2.679 in	29DN04	5
2 in	2.936 in	22UJ59	5
Steel, Zinc			
#2	0.172 in	19NP20	100
#4	0.209 in	19NP22	100
#5	0.236 in	19NP23	100
#6	0.25 in	2DA81	100
#8	0.293 in	2DA83	100
#10	0.334 in	2DA85	100
#12	0.377 in	2DA87	100
¼ in	0.487 in	2DA89	100
5/16 in	0.583 in	2DA91	100
⅜ in	0.68 in	22UH80	50
7/16 in	0.77 in	22UH81	25
½ in	0.869 in	22UH82	25
9/16 in	0.965 in	22UH83	25
⅝ in	1.073 in	22UH84	10
¾ in	1.265 in	22UH85	10
⅞ in	1.459 in	22UH86	5
1 in	1.656 in	22UH87	5
1⅛ in	1.847 in	22UH88	5
1¼ in	2.036 in	23NJ36	5
1⅜ in	2.219 in	22UH89	5
1½ in	2.419 in	22UH90	5
1¾ in	2.679 in	19NP24	5
2 in	2.936 in	19NP25	5
M2	4.4 mm	6FB71	100
M2.5	5.1 mm	6FB73	100
M2.6	5.2 mm	6FB75	100
M3	6.2 mm	6FB77	100
M3.5	6.7 mm	6FB79	100
M4	7.6 mm	6FB81	100
M5	9.2 mm	6FB83	100
M6	11.8 mm	6FB85	100
M7	12.8 mm	25DN18	100
M8	14.8 mm	6FB87	100
M10	18.1 mm	6FB89	100
M12	21.1 mm	22UK10	50
M14	24.1 mm	22UK11	50
M16	27.4 mm	22UK12	25
M18	29.4 mm	22UK13	25
M20	33.6 mm	22UK14	10
M22	35.9 mm	25DN19	10
M24	40.0 mm	22UK15	10
M30	48.2 mm	25DN20	5
M36	58.2 mm	25DN21	2

Split Lock Washers

Light-Duty—Thin helical spring lock washers have a slight reduction in outside dimension.

Heavy-Duty—Load-bearing washers increase elastic properties of the joint to compensate for material expansion and contraction maintain tension under dynamic loads.

Extra-Duty—Washers have increased outside dia., thickness, and bearing area to absorb exceptionally high torques and retain tension under heavy loads.

Fits Bolt Sizes	Outside Dia.	Plain Finish Item No.	Plain Finish Pkg. Qty.	Zinc-Plated Item No.	Zinc-Plated Pkg. Qty.
Light Duty					
#4	0.199 in	**1DZU6**	100	**1DZX3**	100
#5	0.222 in	**1DZU7**	100	**1DZX4**	100
#6	0.236 in	**1DZU8**	100	**1DZX5**	100
#8	0.277 in	**1DZU9**	100	**1DZX6**	100
#10	0.32 in	**1DZV1**	100	**1DZX7**	100
#12	0.361 in	**1DZV2**	100	**1DZX8**	100
¼ in	0.483 in	**1DZV3**	100	**1DZX9**	100
5⁄16 in	0.567 in	**1DZV4**	100	**1DZY1**	100
⅜ in	0.67 in	**1DZV5**	100	**1DZY2**	100
7⁄16 in	0.772 in	**1DZV6**	50	**1DZY3**	50
½ in	0.867 in	**1DZV7**	50	**1DZY4**	50
9⁄16 in	0.961 in	**1DZV8**	50	—	—
⅝ in	1.069 in	**1DZV9**	25	**1DZY6**	25
¾ in	1.262 in	**1DZW1**	25	**1DZY7**	25
⅞ in	1.455 in	**1DZW2**	25	**1DZY8**	25
1 in	1.64 in	**1DZW3**	10	**1DZY9**	10
1⅛ in	1.819 in	**1DZW4**	10	**1DZZ1**	10
1¼ in	1.99 in	**1DZW5**	10	**1DZZ2**	10
1⅜ in	2.158 in	**1DZW6**	10	**1DZZ3**	10
1½ in	2.325 in	—	—	**1DZZ4**	10
Heavy Duty					
#2	0.182 in	—	—	**1EAE6**	100
#4	0.223 in	**19NP39**	100	**19NP50**	100
#5	0.252 in	—	—	**19NP51**	100
#6	0.266 in	**19NP41**	100	**19NP52**	100
#8	0.307 in	**19NP42**	100	**19NP53**	100
#10	0.35 in	**19NP43**	100	**19NP54**	100
#12	0.391 in	**19NP44**	100	**19NP55**	100
¼ in	0.489 in	**19NP45**	100	**19NP56**	100
5⁄16 in	0.593 in	**19NP46**	100	**19NP57**	100
⅜ in	0.688 in	—	—	**1EAF7**	100
7⁄16 in	0.784 in	—	—	**1EAF8**	100
½ in	0.879 in	—	—	**1EAF9**	50
1⅛ in	1.903 in	**23NJ34**	5	**23NJ37**	5
Extra Duty					
#4	0.253 in	**19NP27**	100	**19NP32**	100
¼ in	0.533 in	**19NP30**	100	**19NP36**	100
5⁄16 in	0.619 in	**19NP31**	100	**19NP37**	100
⅜ in	0.738 in	**23NJ35**	50	—	—
7⁄16 in	0.836 in	**22UH60**	25	**22UJ03**	25
½ in	0.935 in	**22UH61**	25	—	—
9⁄16 in	1.035 in	**22UH62**	25	**22UJ05**	25
⅝ in	1.151 in	**22UH63**	10	**22UJ06**	10
¾ in	1.355 in	**22UH64**	10	**22UJ07**	10
⅞ in	1.571 in	**22UH65**	5	**22UJ08**	5
1 in	1.794 in	**22UH66**	5	**22UJ09**	5
1⅛ in	2.013 in	**22UH67**	5	**22UJ10**	5
1¼ in	2.222 in	**22UH68**	5	**22UJ11**	5
1½ in	2.627 in	**22UH69**	5	**22UJ12**	5
Heavy					
⅜ in	0.688 in	**22UH44**	50	**22UH91**	50
7⁄16 in	0.784 in	**22UH45**	25	**22UH92**	25
½ in	0.879 in	**22UH46**	25	**22UH93**	25
9⁄16 in	0.975 in	**22UH47**	25	**22UH94**	25
⅝ in	1.087 in	**22UH48**	10	**22UH95**	10
¾ in	1.285 in	**22UH49**	10	**22UH96**	10
⅞ in	1.489 in	**22UH50**	5	**22UH97**	5
1 in	1.7 in	**22UH51**	5	**22UH98**	5
1¼ in	2.104 in	**22UH52**	5	**22UH99**	5
1⅜ in	2.301 in	**22UH53**	5	**22UJ01**	5
1½ in	2.491 in	**22UH54**	5	**22UJ02**	5
2 in	3.144 in	**22UH57**	5	—	—
2¼ in	3.398 in	**22UH58**	5	—	—
2½ in	3.648 in	**22UH59**	5	—	—
Standard Duty					
⅜ in	0.738 in	—	—	**23NJ38**	50

ARMOR COAT FASTENERS

Armor Coat® Grade 8 Split Lock Washers

250% stronger than stainless steel.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
¼ in	0.26 in	0.489 in	0.062 in	**5DKD3**	100
5⁄16 in	0.322 in	0.593 in	0.078 in	**5DKD4**	50
⅜ in	0.385 in	0.688 in	0.094 in	**5DKD5**	50
7⁄16 in	0.45 in	0.784 in	0.109 in	**5DKD6**	25
½ in	0.512 in	0.879 in	0.125 in	**5DKD7**	25
⅝ in	0.641 in	1.087 in	0.156 in	**5DKD8**	25
¾ in	0.766 in	1.285 in	0.188 in	**5DKD9**	20

High Collar Split Lock Washers

Split Lock Washers—Meet ASME B18.21.1 standards.

Metric Split Lock Washers—Meet DIN 7980 standards.

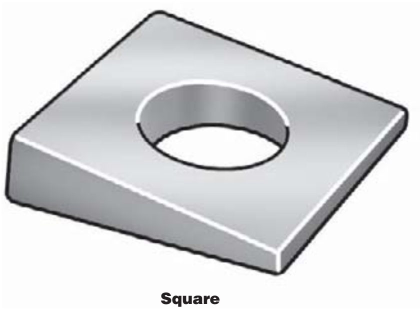
Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 Stainless Steel, Plain			
¼ in	0.363 in	**22UJ75**	50
5⁄16 in	0.457 in	**22UJ76**	50
⅜ in	0.55 in	**22UJ77**	50
A2 Stainless Steel, Plain			
M3	5.6 mm	**22UJ37**	50
M4	7.0 mm	**22UJ38**	50
M5	8.8 mm	**22UJ39**	50
M6	9.9 mm	**22UJ40**	50
M8	12.7 mm	**22UJ41**	50
M10	16.0 mm	**22UJ42**	50
M12	18.0 mm	**22UK19**	25
A4 Stainless Steel, Plain			
M5	8.8 mm	**25DN47**	50
M6	9.9 mm	**25DN48**	50
M8	12.7 mm	**25DN49**	50
M10	16 mm	**25DN50**	50
Steel, Furnace Black			
M3	5.6 mm	**6FE27**	100
M4	7.0 mm	**6FE29**	100
M5	8.8 mm	**6FE31**	100
M6	9.9 mm	**6FE33**	100
M8	12.7 mm	**6FE35**	100
M10	16.0 mm	**6FE37**	100
Steel, Plain			
#4	0.173 in	**19NT88**	100
#6	0.216 in	**19NT90**	100
#8	0.267 in	**19NT91**	100
#10	0.294 in	**19NT92**	100
¼ in	0.363 in	**19NT93**	100
5⁄16 in	0.457 in	**19NT94**	100
⅜ in	0.55 in	**22UH70**	50
7⁄16 in	0.644 in	**22UH71**	25
½ in	0.733 in	**22UH72**	25
⅝ in	0.917 in	**22UH73**	10
¾ in	1.105 in	**22UH74**	10
⅞ in	1.291 in	**22UH75**	5
1 in	1.478 in	**22UH76**	5
1¼ in	1.79 in	**22UH77**	5
1½ in	2.159 in	**22UH78**	5
M12	18.0 mm	**22UK16**	50
M14	21.1 mm	**25DN22**	50
M16	24.4 mm	**22UK17**	25
M20	30.6 mm	**25DN23**	10
M24	35.9 mm	**25DN24**	10
M30	44.1 mm	**25DN25**	5
Steel, Zinc			
M4	7.0 mm	**25DN26**	100
M5	8.8 mm	**25DN27**	100
M6	9.9 mm	**25DN28**	100
M8	12.7 mm	**25DN29**	100
M10	16.0 mm	**25DN30**	100
M12	18.0 mm	**25DN31**	50
M16	24.4 mm	**25DN32**	25
M20	30.6 mm	**25DN33**	10

METRIC BLUE

Metric Blue® High Collar Split Lock Washers

Blue coating provides easy metric identification. Meet DIN 7980 standard.

Fits Bolt Sizes	Inside Dia.	Outside Dia.	Thickness	Item No.	Pkg. Qty.
M3	3.5 mm	5.5 mm	1.0 mm	**5YMW2**	100
M4	4.5 mm	6.5 mm	1.2 mm	**5YMW3**	100
M5	5.5 mm	8.5 mm	1.6 mm	**5YMW4**	100
M6	6.5 mm	11.3 mm	1.7 mm	**5YMX2**	100
M6	6.5 mm	9.5 mm	1.6 mm	**5YMW5**	100
M8	8.5 mm	14.5 mm	2.0 mm	**5YMX3**	100
M8	9.0 mm	12.5 mm	2.0 mm	**5YMW6**	100
M10	10.5 mm	17.5 mm	2.3 mm	**5YMX4**	100
M10	10.5 mm	15.5 mm	2.5 mm	**5YMW7**	100
M12	13.0 mm	20.0 mm	2.5 mm	**5YMX5**	100
M12	12.5 mm	17.5 mm	2.5 mm	**5YMW8**	100
M16	16.5 mm	26.5 mm	3.6 mm	**5YMX6**	50
M16	16.5 mm	23.0 mm	3.5 mm	**5YMW9**	100
M20	21.0 mm	32.5 mm	4.2 mm	**5YMX7**	50
M20	21.0 mm	30.0 mm	4.6 mm	**5YMX0**	50
M24	25.0 mm	35.0 mm	5.0 mm	**5YMX1**	25
M24	25.0 mm	40.0 mm	4.9 mm	**5YMX8**	25



Square Beveled

Structural Washers

Flat—Primarily used for structural bolting. Commonly used with higher strength fasteners. Meet ASTM F436 standard.

Square Beveled—Washers are primarily used for structural leveling and shimming applications. Hardened steel is commonly used in A325 and A490 structural bolting applications.

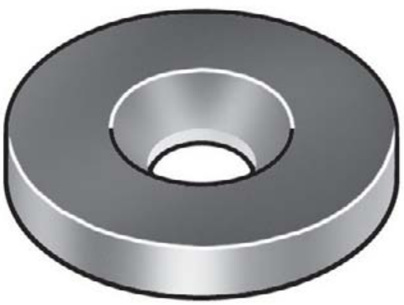
- Metric meet DIN 435 standard
- Malleable iron meets ASTM A47 standard

Raised—Large bearing surface provides added strength. Meet ASTM A47 standard.

Fits Bolt Sizes	Thickness	Outside Dia.	Item No.	Pkg. Qty.
Structural Flat Washer				
Steel, Galvanized				
1 in	0.136 to 0.177 in	2 in	**6ZA30**	10
1¼ in	0.136 to 0.177 in	2 ½ in	**6ZA32**	10
1⅛ in	0.136 to 0.177 in	2 ¼ in	**6ZA31**	10
⅝ in	0.122 to 0.177 in	1 5⁄16 in	**6ZA27**	50
¾ in	0.122 to 0.177 in	1 15⁄32 in	**6ZA28**	25
⅞ in	0.136 to 0.177 in	1 ¾ in	**6ZA29**	25
½ in	0.097 to 0.177 in	1 1⁄16 in	**6ZA26**	50

Fits Bolt Sizes	Thickness	Outside Dia.	Item No.	Pkg. Qty.
Square Beveled Washer				
Malleable Iron, Galvanized				
⅜ in	0.120 to 0.340 in	1 ¼ in	**2DE60**	600
¾ in	0.190 to 0.440 in	1 ½ in	**2DE73**	300
Malleable Iron, Plain				
⅜ in	0.120 to 0.340 in	1 ¼ in	**2DE58**	600
¾ in	0.190 to 0.440 in	1 ½ in	**2DE70**	300
Steel, Zinc				
M8	4.6 mm	22 mm	**6GA10**	10
M10	4.6 mm	22 mm	**6GA12**	10
M12	6.2 mm	26 mm	**6GA14**	10
M16	7.5 mm	32 mm	**6GA16**	10
M20	9.2 mm	40 mm	**6GA18**	5
M22	10 mm	44 mm	**6GA20**	5
Raised Structural Washer				
Malleable Iron, Plain				
½ in	0.136 to 0.177 in	2 ½ in	**2DE52**	25

Countersunk Washers



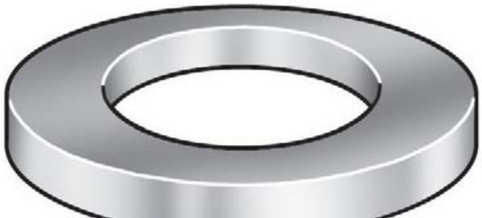
For Use With	Fits Bolt Size	Outside Dia.	Thickness	Item No.	Pkg. Qty.
18-8 Stainless Steel					
82° Flat/Oval Head Screws	#8	¾ in	⅛ in	**1JYG5**	1
		1 in	⅛ in	**1JYG6**	1
	#10	13⁄16 in	9⁄64 in	**1JYG7**	1
	¼ in	1 ½ in	9⁄32 in	**1JYH3**	1
		2 in	9⁄32 in	**1JYH5**	1
82° Flat/ Oval Head Countersunk Screws	#6	29⁄64 in	5⁄64 in	**1NU82**	100
	#8	33⁄64 in	3⁄32 in	**1NU83**	100
	#10	19⁄32 in	7⁄64 in	**1NU84**	100
	#12	11⁄16 in	9/34 in	**1NU85**	100
	¼ in	25⁄32 in	5⁄32 in	**1NU86**	100
A1 Stainless Steel					
90° Flat/ Oval Head Countersunk Screws	M3	10 mm	1 ⅘ mm	**6FY92**	10
	M4	14 mm	2 3⁄10 mm	**6FY94**	10
	M5	16 mm	2 ⅘ mm	**6FY96**	5
	M6	18 mm	3 3⁄10 mm	**6FY98**	5
Low Carbon Steel, Nickel Finish					
82° Flat/ Oval Head Countersunk Screws	#4	⅜ in	3⁄32 in	**2DE28**	100
	#6	15⁄32 in	5⁄64 in	**2DE30**	100
	#8	17⁄32 in	7⁄64 in	**2DE32**	100
	#10	19⁄32 in	7⁄64 in	**2DE34**	100
	#12	21⁄32 in	⅛ in	**2DE36**	100
	¼ in	25⁄32 in	5⁄32 in	**2DE38**	100
	⅜ in	1 in	¼ in	**2DE40**	100

For Use With	Fits Bolt Size	Outside Dia.	Thickness	Item No.	Pkg. Qty.
Nylon, Black					
82° Flat/ Oval Head Countersunk Screws	#6	437/1000 in	1⁄10 in	**4DCR8**	20
	#8	51/100 in	23/200 in	**4DCT3**	20
	#10	23/40 in	19/125 in	**4DCP9**	20
	#12	609/1000 in	4/25 in	**4DCR4**	20
	¼ in	683/1000 in	9/50 in	**4EYA6**	20
Nylon, Off White					
82° Flat/ Oval Head Countersunk Screws	#6	437/1000 in	1⁄10 in	**4DCT1**	20
	#8	51/100 in	23/200 in	**4EYA4**	20
	#10	23/40 in	19/125 in	**4DCR2**	20
	#12	609/1000 in	4/25 in	**4DCR6**	20
	¼ in	683/1000 in	9/50 in	**4EYA8**	20
Steel, Black Oxide Finish					
Flat Socket Head Cap Screw	#8	¾ in	⅛ in	**5TA58**	5
		1 in	⅛ in	**5TA59**	5
	#10	13⁄16 in	9⁄64 in	**5TA60**	5
		1 ⅛ in	9⁄64 in	**5TA61**	1
	¼ in	1 ¼ in	9⁄32 in	**5TA63**	1
		1 ⅜ in	9⁄32 in	**5TA64**	1
		1 ½ in	9⁄32 in	**5TA65**	1
	M4	16 mm	3 mm	**5TA48**	5
		20 mm	3 mm	**5TA49**	5
	M6	32 mm	4 mm	**5TA53**	1

Thick Square Washers

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
18-8 SS, Plain Finish			
¼ in	2 in	**5RU22**	1
⅜ in	2 in	**5RU25**	1
½ in	2 in	**5RU28**	1
⅝ in	2 in	**5RU31**	1
¾ in	2 in	**5RU34**	1
⅞ in	2 in	**5RU37**	1
1 in	2 in	**5RU39**	1
Case Hardened Steel, Black Oxide Finish			
¼ in	2 in	**5RU21**	1
⅜ in	2 in	**5RU24**	1
½ in	2 in	**5RU27**	1
⅝ in	2 in	**5RU30**	1
¾ in	2 in	**5RU33**	1
⅞ in	2 in	**5RU36**	1
1 in	2 in	**5RU38**	1

Fits Bolt Sizes	Outside Dia.	Item No.	Pkg. Qty.
Steel, Galvanized Finish			
⅜ in	2 in	**5RU23**	1
½ in	2 in	**5RU26**	1
	3 in	**26L103**	1
⅝ in	2 in	**5RU29**	1
	3 in	**26L104**	1
	4 in	**26L109**	1
¾ in	2 in	**5RU32**	1
	3 in	**26L106**	1
	4 in	**26L111**	1
⅞ in	2 in	**5RU35**	1
	3 in	**26L108**	1
	4 in	**26L112**	1
1 in	3 in	**26L110**	1
	4 in	**26L113**	1

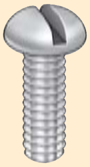


Metric Nonserrated Conical Washers

- Meet DIN 6796

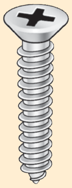
Fits Bolt Sizes	Outside Dia.	Thickness	A2 STAINLESS STEEL Item No.	A2 STAINLESS STEEL Pkg. Qty.	SPRING STEEL Item No.	SPRING STEEL Pkg. Qty.
M3	7 mm	0.6 mm	**6FY51**	10	**6FY72**	100
M4	9 mm	1 mm	**6FY53**	25	**6FY74**	100
M5	11 mm	1.2 mm	**6FY55**	25	**6FY76**	100
M6	14 mm	1.5 mm	**6FY57**	25	**6FY78**	50
M8	18 mm	2 mm	**6FY59**	10	**6FY80**	25
M10	23 mm	2.5 mm	**6FY61**	25	**6FY82**	10
M12	29 mm	3 mm	**6FY62**	10	**6FY84**	10
M16	39 mm	4 mm	**6FY64**	5	**6FY86**	1
M20	45 mm	5 mm	**6FY66**	1	**6FY88**	1

Screw Information



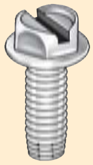
Machine

General purpose screws are typically used in noncritical applications. Machine screws are most commonly used to fasten metal to metal, and are designed to be inserted into a prethreaded hole or mated with a nut (in which case they may be called stove bolts). See page 2098.



Sheet Metal

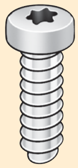
Designed for quick entry into sheet metal, plastics, wood, fiberglass, aluminum, plywood, and hard rubber. They tap their own internal mating thread when inserted into a predrilled or prepunched pilot hole; the resulting fit has close to zero clearance for a strong hold. See page 2105.



Thread-Cutting

Screws cut away and remove the surrounding material instead of displacing it. Create a zero-clearance fit that resists vibration and prevents loosening. See page 2102.

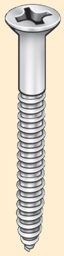
- **Used in harder, less pliable materials**
- **Not recommended for applications requiring frequent assembly and disassembly**



Self-Tapping

Screws displace the surrounding material instead of removing it. They typically have higher drive and strip torque values than thread-cutting screws. Not recommended for materials that crack under sustained loads. See page 2105.

- **Used in softer materials that can deform**
- **For applications requiring frequent assembly and disassembly**



Wood

Form their own internal mating thread in wood or other resilient materials. They create a tight joint, but the screws can be removed easily without damage. See page 2108.

Note: Predrilling is recommended, especially when used in hardwoods.

2NRZ8

ITW Bee Leitzke

Screw Assortments

No. of Pieces	No. of Sizes	Includes	Head Type	Material	Brand	Item No.
Machine Screw, Nut and Washer Assortment						
84	7	Screws (10) Each: 10-24 x ¾ in, x1 in, x1 ¼ in, (8) Each: 10-24 x 1 ½, (6) Each: 10-24 x 2 in, Finish Washers (20) Each: #10, Hex Nuts (20) Each: 10-24, Plastic Hanging Pak	Oval	Steel Plain	—	**53WR24**
1,180	29	Machine Screws (30) Each: 6-32 x ½ in, (25) Each: 6-32 x ¾ in, 8-32 x ½ in, 10-24 x ½ in, (20) Each: 8-32 x ¾ in, 10-24 x ¾ in, (15) Each: 6-32 x 1 in, 8-32 x 1 in, 10-24 x ½ in, x3/4 in, x1 in, 10-32 x 1 in, (12) Each: ¼"-20 x ¾ in, (10) Each: ¼"-20 x 1 in, (6) Each: ¼"-20 x 1 ½ in, (4) Each: 10-24 x 1 ½ in, Hex Nuts (82) Each: 6-32, (75) Each: 8-32, 10-24, (60) Each: 10-32, (35) Each: ¼"-20, Flat Washers (88) Each: #6, (85) Each: #8, #10, (35) Each: ¼ in, Lock Washers (88) Each: #6, (85) Each: #8, #10, (35) Each: ¼ in, and Plastic Hanging Pak	Round	Steel Zinc Plated	—	**53WR36**
Machine Screw and Nut Assortment						
1,711	24	Screws (100) Each: 6-32 x ⅜ in, x1/2 in, x3/4 in, 8-32 x ½ in, ¼"-20 x ½ in, x3/4 in, x1 in, x1 ½ in, (48) Each: 6-32 x 1 in, (39) Each: 10-24 x ½ in, x3/4 in, x1 in, 10-32 x ½ in, x3/4 in, x1 in, (36) Each: 8-32 x ¾ in, x1 in, (33) Each: 8-32 x 1 ½ in, (24) Each: 10-24 x 1 ½ in, Nuts (100) Each: 6-32, 8-32, 10-24, 10-32, ¼"-20, and Metal Container, Fits Cabinet 4UJ35	Round	Steel Zinc Plated	—	**53WR06**
Machine Screw Assortment						
71	6	Screws (12) Each: 10-24 x ¾ in, (10) Each: 10-24 x 1 in, (5) Each: ¼"-20 x 1 in, x1 ½ in, Hex Nuts (24) Each: 10-24, (15) Each: ¼"-20, Plastic Hanging Pak	Round	Steel Zinc Plated	—	**53WR19**
88	7	(20) Each: 6-32 x ½ in, (15) Each: 8-32 x ½ in, x3/4 in, (12) Each: 10-24 x ½ in, x3/4 in, (8) Each: ¼"-20 x ¾ in, (6) Each: ¼"-20 x 1 in, Plastic Case	Pan	Steel Plain	—	**53WR31**
214	18	(25) Each: M3-0.50 x 6mm, (20) Each: M3-0.50 x 10mm, M4-0.70 x 6mm, x12mm, (18) Each: M4-0.70 x 20mm, (13) Each: M4-0.70 x 25mm, (12) Each: M5-0.80 x 10mm, (10) Each: M4-0.70 x 30mm, x40mm, M5-0.80 x 16mm, (9) Each: M5-0.80 x 20mm, (8) Each: M5-0.80 x 25mm, M6-1.00 x 12mm, (7) Each: M5-0.80 x 30mm, M6-1.00 x 16mm, x20mm, (5) Each: M6-1.00 x 25mm, x30mm, Plastic Hanging Pak	Pan	Steel Zinc Plated	—	**53WR25**
445	16	(40) Each: 6-32 x ½ in, x3/4 in, x1 in, 8-32 x ½ in, x3/4 in, (35) Each: 8-32 x 1 in, 10-24 x ½ in, (30) Each: 8-32 x 1 ½ in, 10-24 x ¾ in, x1 in, (20) Each: 10-24 x 1 ½ in, (15) Each: ¼"-20 x ½ in, x3/4 in, x1 in, (10) Each: ¼"-20 x 1 ½ in, x2 in, and Plastic Case	Flat	Steel Zinc Plated	—	**53WR15**
445	16		Round	Steel Zinc Plated	—	**53WR23**
455	24	(40) Each: M4-0.70 x 6mm, x10mm, x12mm, x16mm, (15) Each: M4-0.70 x 20mm, x25mm, x30mm, x35mm, x40mm, x45mm, x50mm, (30) Each: M5-0.80 x 10mm, x16mm, x20mm, (10) Each: M5-0.80 x 25mm, x30mm, M6-1.00 x 12mm, x16mm, x20mm, x25mm, x30mm, x35mm, x40mm, x50mm, and Metal Container, Fits Cabinet 4UJ35	Pan	Steel Zinc Plated	—	**53WR02**
Multi-Machine, Tapping Screw, and Washer Assortment						
252	32	Oval Sheet Metal Screws (10) Each: #6 x ¾ in, x1 in, #8 x ¾ in, (8) Each: #8 x 1 in, x1 ¼ in, #10 x 1 in, (6) Each: #10 x 1 ½ in, (5) Each: #12 x 1 ½ in, Pan Sheet Metal Screws (10) Each: #6 x ¾ in, #8 x ¾ in, (8) Each: #8 x 1 ¼ in, #10 x 1 in, (5) Each: #10 x 1 ½ in, Oval Machine Screws (4) Each: 10-24 x ¾ in, 10-24 x 1 in, ¼"-20 x ¾ in, x1 in, x1 ½ in, (3) Each: 10-24 x 1 ½ in, Round Machine Screws (4) Each: 10-24 x ¾ in, x1 in, (3) Each: ¼"-20 x ¾ in, ¼"-20 x 1 in, (2) Each: ¼"-20 x 1 ½ in, Hex Nuts (20) Each: 10-24, (15) Each: ¼"-20, Flat Washers (15) Each: #10, (8) Each: ¼ in, Lock Washers (15) Each: #10, (12) Each: ¼ in, Finish Washers (12) Each: ¼ in, (10) Each: #10, and Plastic Hanging Pak	Oval, Pan, Round	Steel Plain	—	**53WR34**
Self-Drilling Screw and Washer Assortment						
295	12	Self-Drilling Screws (40) Each: 10-16 x ¾ in, (30) Each: 8-18 x ½ in, x3/4 in, x1 in, 10-16 x ½ in, (20) Each: 10-16 x 1 in, 12-14 x ¾ in, x1 in, ¼"-14 x ¾ in, x1 in, Self-Drilling Screws with Neoprene Washer (20) Each: 12-14 x ¾ in, (15) Each: ¼"-14 x 1 in, and Plastic Case	Hex Washer	Steel Zinc Plated	—	**53WR12**
Self-Drilling Screw Assortment						
199	15	Self-Drilling Screws (24) Each: #6 x ½ in, #8 x ½ in, (20) Each: #8 x ¾ in, (15) Each: #6 x ¾ in, #10 x ¾ in, x5/8 in, x1/2 in, (12) Each: #10 x 1 in, (10) Each: #8 x 1 in, #12 x ¾ in, x1 in, (8) Each: #12 x 1 ¼ in, #14 x ¾ in, (6) Each: #14 x 1 in, (4) Each: #14 x 1 ½ in, Magnetic Drivers (1) Each: ⅜ in, 5⁄16 in, ¼ in, Plastic Hanging Pak	Hex Washer	Steel Zinc Plated	—	**53WR37**
340	13	Flat Head (10) Each: 10-24 x 1 ¼ in, x1 7⁄16 in, 12-24 x 2 in, Pan Head (40) Each: 8-18 x ½ in, (30) Each: 6-20 x ⅜ in, x1/2 in, 8-18 x ¾ in, x1 in, x1 ½ in, 10-16 x ½ in, x5/8 in, x3/4 in, x1 in, Plastic Container	Flat, Pan	Steel Zinc Plated	—	**53WR22**
1,825	20	(100) Each: #6 x ½ in, #8 x ½ in, x3/4 in, x1 in, x1 ¼ in, x1 ½ in, #10 x ½ in, x3/4 in, x1 in, x1 ¼ in, x1 ½ in, #12 x ¾ in, x1 in, x1 ½ in, ¼ inx ¾ in, x1 in, x1 ½ in, (50) Each: #6 x ¾ in, x1 in, (25) #12 x 1 ¼ in, Metal Container, Fits Cabinet 4UJ35	Hex Washer	Steel Zinc Plated	—	**53WR14**
Sheet Metal Screws and Plastic Anchors Assortment						
365	11	Hex Head Screws (70) Each: #8x3/4 in, Pan Head Screws (50) Each: #4x3/8 in, #6x1/2 in, #10x3/4 in, (40) Each: #8x5/8 in, (20) Each: #10x1 in, #12x1 in, #14x1 in, Plastic Anchors (20) Each: ¾ in, (15) Each: ⅞ in, (10) Each: 1 in, and Plastic Hanging Pak	Pan	Steel Zinc Plated	Itw Bee Leitzke	**2NRZ8**
Tapping Screw and Washer Assortment						
76	6	Screws (8) Each: #8 x 1 ¼ in, #10 x 1 ¼ in, (10) Each: #8 x ¾ in, x1 in, #10 x 1 in, Washers (15) Each: #8, #10, Plastic Hanging Pak	Oval	Steel Plain	—	**53WR17**
Tapping Screw Assortment						
82	7	(15) Each: #6 x ¾ in, #8 x ½ in, (12) Each: #8 x 1 in, #10 x ¾ in, (10) Each: #8 x ¾ in, #10 x 1 in, (8) Each: #10 x 1 ½ in, Plastic Hanging Pak	Pan	Steel Plain	—	**53WR21**
94	6	(25) Each: #8 x ½ in, (20) Each: #8 x ¾ in, (15) Each: #8 x 1 in, (12) Each: #8 x 1 ½ in, #10 x 1 in, (10) Each: #10 x 1 ¼ in, Plastic Hanging Pak	Pan	Steel Zinc Plated	—	**53WR10**
535	19	(55) Each: #8 x ½ in, (50) Each: #10 x ½ in, (45) Each: #8 x ¾ in, (40) Each: #6 x ½ in, (35) Each: #6 x 1 in, #8 x 1 in, #10 x ¾ in, (30) Each: #6 x ¾ in, #8 x 1 ¼ in, #10 x 1 in, (25) Each: #8 x 1 ½ in, #12 x ¾ in, (20) Each: #10 x 1 ¼ in, (15) Each: #10 x 1 ½ in, (15) Each: #14 x ¾ in, (14) Each: #12 x 1 in, x1 ½ in, (12) Each: #14 x 1 in, (10) Each: #14 x 1 ½ in, Plastic Hanging Pak	Pan	Steel Zinc Plated	—	**53WR30**
667	24	Oval Head (35) Each: #6 x ½ in, (30) Each: #6 x ¾ in, #8 x ½ in, (25) Each: #8 x ¾ in, (20) Each: #6 x 1 in, #8 x 1 in, #10 x ¾ in, (15) Each: #8 x 1 ¼ in, x1 ½ in, #10 x 1 in, (12) Each: #10 x 1 ¼ in, (10) Each: #10 x 1 ½ in, Pan Head (100) Each: #8 x 1 ¼ in, #10 x 1 ¼ in, (35) Each: #6 x ½, (30) Each: #6 x ¾ in, #8 x ½ in, (25) Each: #8 x ¾ in, (20) Each: #6 x 1 in, #8 x 1 in, #10 x ¾ in, (15) Each: #8 x 1 ½ in, #10 x 1 in, (10) Each: #10 x 1 ½ in, Metal Container, Fits Cabinet 4UJ35	Oval, Pan	Steel Plain	—	**53WR18**
2,000	20	(100) Each: #6 x ⅜ in, x1/2 in, x5/8 in, x3/4 in, x1 in, #8 x ½ in, x5/8 in, x3/4 in, x1 in, x1 ¼ in, x1 ½ in, #10 x ½ in, x3/4 in, x1 in, x1 ¼ in, x1 ½ in, x2 in, #12 x ¾ in, x1 in, x1 ½ in, and Metal Container, Fits Cabinet 4UJ35	Pan	Steel Zinc Plated	—	**53WP98**
Wood Screw Assortment						
122	6	(30) Each: #6 x ¾ in, (25) Each: #6 x 1 in, (20) Each: #6 x 1 ½ in, #8 x 1, (15) Each: #8 x 1 ¼ in, (12) Each: #8 x 1 ½ in, Plastic Hanging Pak	Flat	Steel Zinc Plated	—	**53WR29**

Round Head Machine Screws

High-profile domed head gives a decorative appearance. Meet ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Phillips Drive

Combination Drive

Length	Drive Type	Material*	Item No.	Pkg. Qty.
2-56 Thread Size				
¼"	Phillips	Steel	2EB15	100
⅜"	Phillips	Steel	2EB16	100
½"	Phillips	Steel	2EB18	100
¾"	Phillips	Steel	2EB20	100
4-40 Thread Size				
3/16"	Phillips	Steel	2EB24	100
¼"	Phillips	18-8 SS	2BB11	100
	Phillips	Steel	2EB26	100
	Combo	Steel	1MY47	100
5/16"	Phillips	18-8 SS	2BB13	100
	Phillips	Steel	2EB28	100
⅜"	Phillips	18-8 SS	2BB15	100
	Phillips	Steel	2EB30	100
	Combo	Steel	1MY48	100
½"	Phillips	Steel	2EB32	100
	Combo	Steel	1MY49	100
⅝"	Phillips	Steel	2EB34	100
¾"	Phillips	Steel	2EB35	100
	Combo	Steel	1MY51	100
⅞"	Phillips	Steel	2EB37	100
	Combo	Steel	1MY52	100
1"	Phillips	Steel	2EB39	100
	Combo	Steel	1MY53	100
1¼"	Phillips	Steel	2EB41	100
	Combo	Steel	1MY54	100
1½"	Combo	Steel	1MY55	100
5-40 Thread Size				
¼"	Combo	Steel	1MY56	100
⅜"	Phillips	Steel	2EB43	100
	Combo	Steel	1MY57	100
½"	Phillips	Steel	2EB45	100
	Combo	Steel	1MY58	100
¾"	Combo	Steel	1MY59	100
1"	Combo	Steel	1MY60	100
1¼"	Combo	Steel	1MY61	100
1½"	Combo	Steel	1MY62	100
6-32 Thread Size				
¼"	Phillips	18-8 SS	2BB17	100
	Phillips	Steel	2EB47	100
	Combo	Steel	1MY63	100
5/16"	Phillips	18-8 SS	2BB19	100
	Phillips	Steel	2EB49	100
⅜"	Phillips	18-8 SS	2BB21	100
	Phillips	Steel	2EB51	100
	Combo	Steel	1MY64	100
½"	Phillips	18-8 SS	2BB23	100
	Phillips	Steel	2EB53	100
	Combo	Steel	1MY65	100
⅝"	Phillips	18-8 SS	2BB25	100
	Phillips	Steel	2EB54	100
	Combo	Steel	1MY66	100
¾"	Phillips	18-8 SS	2BB27	100
	Phillips	Steel	2EB56	100
	Combo	Steel	1MY67	100
⅞"	Combo	Steel	1MY68	100
1"	Phillips	18-8 SS	2BB29	100
	Phillips	Steel	2EB58	100
	Combo	Steel	1MY69	100
1¼"	Phillips	Steel	2EB60	100
	Combo	Steel	1MY70	100
1½"	Phillips	18-8 SS	2WA25	100
	Phillips	Steel	2EB62	100
	Combo	Steel	1MY71	100
1¾"	Phillips	Steel	2EB64	100
	Combo	Steel	1MY72	100
2"	Combo	Steel	1MY73	100
2½"	Combo	Steel	1MY74	100
3"	Combo	Steel	1MY75	100
8-32 Thread Size				
¼"	Phillips	18-8 SS	2BB31	100
	Phillips	Steel	2EB66	100
	Combo	Steel	1MY77	100
5/16"	Phillips	18-8 SS	2BB33	100
	Phillips	Steel	2EB68	100
	Combo	Steel	1MY78	100
⅜"	Phillips	18-8 SS	2BB35	100
	Phillips	Steel	2EB70	100
	Combo	Steel	1MY79	100
½"	Phillips	18-8 SS	2BB37	100
	Phillips	Steel	2EB72	100
	Combo	Steel	1MY80	100
⅝"	Phillips	18-8 SS	2BB39	100
	Phillips	Steel	2EB73	100
	Combo	Steel	1MY81	100
¾"	Phillips	18-8 SS	2BB41	100
	Phillips	Steel	2EB75	100
	Combo	Steel	1MY82	100
⅞"	Phillips	Steel	2EB77	100
	Combo	Steel	1MY83	100
1"	Phillips	18-8 SS	2BB43	100
	Phillips	Steel	2EB79	100
	Combo	Steel	1MY84	100
1¼"	Phillips	18-8 SS	2BB45	100
	Phillips	Steel	2EB81	100
	Combo	Steel	1MY85	100
1½"	Phillips	18-8 SS	2BB47	100
	Phillips	Steel	2EB83	100
	Combo	Steel	1MY86	100
1¾"	Phillips	18-8 SS	2WA26	100
	Combo	Steel	1MY87	100
2"	Phillips	18-8 SS	2WA27	100
	Phillips	Steel	2EB85	100
	Combo	Steel	1MY88	100
2¼"	Combo	Steel	1MY89	100
2½"	Combo	Steel	1MY90	100
3"	Combo	Steel	1MY91	100
10-24 Thread Size				
¼"	Phillips	Steel	2EB87	100
	Combo	Steel	1MY94	100
⅜"	Phillips	18-8 SS	2BB49	100
	Phillips	Steel	2EB89	100
	Combo	Steel	1MY95	100
7/16"	Phillips	18-8 SS	2BB51	100
½"	Phillips	18-8 SS	2BB53	100
	Phillips	Steel	2EB91	100
	Combo	Steel	1MY96	100
⅝"	Phillips	18-8 SS	2BB55	100
	Phillips	Steel	2EB92	100
	Combo	Steel	1MY97	100
¾"	Phillips	18-8 SS	2BB57	100
	Phillips	Steel	2EB94	100
	Combo	Steel	1MY98	100
⅞"	Combo	Steel	1MY99	100
1"	Phillips	18-8 SS	2BB59	100
	Phillips	Steel	2EB96	100
	Combo	Steel	1NA10	100
1¼"	Phillips	18-8 SS	2BB61	100
	Phillips	Steel	2EB98	100
	Combo	Steel	1NA11	100
1½"	Phillips	18-8 SS	2BB63	100
	Phillips	Steel	2EE10	100
	Combo	Steel	1NA12	100
1¾"	Phillips	18-8 SS	2WA28	100
	Phillips	Steel	2EE12	100
	Combo	Steel	1NA13	100
2"	Phillips	18-8 SS	31KJ29	50
	Phillips	Steel	2EE14	100
	Combo	Steel	1NA14	100
2¼"	Combo	Steel	1NA15	100
2½"	Combo	Steel	1NA16	100
3"	Combo	Steel	1NA17	100
3½"	Combo	Steel	1NA18	100
10-32 Thread Size				
¼"	Combo	Steel	1NA22	100
⅜"	Phillips	18-8 SS	2BB65	100
	Phillips	Steel	2EE16	100
	Combo	Steel	1NA23	100
½"	Phillips	18-8 SS	2BB67	100
	Phillips	Steel	2EE18	100
	Combo	Steel	1NA24	100
⅝"	Phillips	18-8 SS	2BB69	100
	Phillips	Steel	2EE20	100
	Combo	Steel	1NA25	100
¾"	Phillips	18-8 SS	2BB71	100
	Phillips	Steel	2EE22	100
	Combo	Steel	1NA26	100
⅞"	Phillips	Steel	2EE23	100
1"	Phillips	18-8 SS	2BB73	100
	Phillips	Steel	2EE25	100
	Combo	Steel	1NA28	100
1¼"	Phillips	18-8 SS	2BB75	100
	Phillips	Steel	2EE27	100
1½"	Phillips	Steel	2EE29	100
	Combo	Steel	1NA30	100
1¾"	Phillips	Steel	2EE31	100
3"	Combo	Steel	1NA35	100
12-24 Thread Size				
⅜"	Phillips	Steel	2EE35	100
	Combo	Steel	1NA38	100
½"	Phillips	Steel	2EE37	100
	Combo	Steel	1NA39	100
⅝"	Phillips	Steel	2EE39	100
	Combo	Steel	1NA40	100
¾"	Phillips	Steel	2EE40	100
	Combo	Steel	1NA41	100
1"	Phillips	Steel	2EE43	100
	Combo	Steel	1NA42	100
1¼"	Combo	Steel	1NA43	100
1½"	Phillips	Steel	2EE46	100
	Combo	Steel	1NA44	100
2"	Phillips	Steel	2EE48	100
	Combo	Steel	1NA45	100
2½"	Combo	Steel	1NA46	100
3"	Combo	Steel	1NA47	100
¼-20 Thread Size				
¼"	Combo	Steel	1NA48	100
⅜"	Phillips	Steel	2EE50	100
½"	Phillips	18-8 SS	31JV03	50
	Phillips	Steel	2EE52	100
⅝"	Phillips	18-8 SS	31JV04	50
	Phillips	Steel	2EE54	100
	Combo	Steel	1NA51	100
¾"	Phillips	18-8 SS	31JV05	50
	Phillips	Steel	2EE56	100
	Combo	Steel	1NA52	100
⅞"	Phillips	Steel	2EE58	100
1"	Phillips	18-8 SS	3AWE8	50
	Phillips	Steel	2EE60	100
1¼"	Phillips	18-8 SS	2BB84	50
	Phillips	Steel	2EE61	100
	Combo	Steel	1NA54	100
1½"	Phillips	18-8 SS	2BB86	50
	Phillips	Steel	2EE65	100
	Combo	Steel	1NA55	100
1¾"	Phillips	Steel	2EE68	100
	Combo	Steel	1NA56	100
2"	Phillips	18-8 SS	31JV06	50
	Phillips	Steel	2EE71	100
	Combo	Steel	1NA57	100
2¼"	Combo	Steel	1NA58	100
2½"	Phillips	Steel	2EE73	100
	Combo	Steel	1NA59	100
2¾"	Phillips	Steel	2EE77	100
	Combo	Steel	1NA60	100
3"	Combo	Steel	1NA61	100
5/16-18 Thread Size				
½"	Combo	Steel	1NA67	100
¾"	Combo	Steel	1NA68	100
1"	Phillips	Steel	2EE80	100
	Combo	Steel	1NA69	100
1¼"	Combo	Steel	1NA70	100
1½"	Phillips	Steel	2EE83	100
	Combo	Steel	1NA71	100
2"	Combo	Steel	1NA72	100
2½"	Combo	Steel	1NA73	100
3"	Combo	Steel	1NA74	100
⅜-16 Thread Size				
¾"	Combo	Steel	1NA79	100
1"	Combo	Steel	1NA80	100
1½"	Combo	Steel	1NA81	100
2"	Combo	Steel	1NA82	100
3"	Combo	Steel	1NA83	50

** Steel screws are zinc-plated.*

Military Specification Pan-Head Machine Screws

- 300 series stainless steel

Crossed recessed Phillips drive. Meet MIL-C-13924 class 4 standard.

Phillips Drive

Length	Item No.	Pkg. Qty.
2-56 Thread Size		
3/16 in	5GLZ5	50
¼ in	5GLZ6	50
5/16 in	5GLZ7	50
⅜ in	5GLZ8	50
½ in	5GLZ9	50
⅝ in	5GMA0	50
4-40 Thread Size		
⅛ in	5GMA2	50
¼ in	5GMA4	50
5/16 in	5GMA5	50
⅜ in	5GMA6	50
½ in	5GMA7	50
⅝ in	5GMA8	50
¾ in	5GMA9	50
1 in	5GMC0	50
6-32 Thread Size		
3/16 in	5GMC1	50
¼ in	5GMC2	50
5/16 in	5GMC3	50
⅜ in	5GMC4	50
½ in	5GMC5	50
⅝ in	5GMC6	50
¾ in	5GMC7	50
1 in	5GMC9	50
8-32 Thread Size		
¼ in	5GMD0	50
⅜ in	5GMD2	50
½ in	5GMD3	50
⅝ in	5GMD4	50
¾ in	5GMD5	50
1 in	5GMD7	50
10-32 Thread Size		
⅜ in	5GMD8	50
7/16 in	5GMD9	50
½ in	5GME0	50
⅝ in	5GME1	50
¾ in	5GME2	50
⅞ in	5GME3	50
1 in	5GME4	50

Pan Head Machine Screws

- Phillips drive

Meet ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material*	Item No.	Pkg. Qty.
#0-80 Thread Size			
1/8"	18-8 SS	1ZA99	100
3/16"	18-8 SS	1ZB10	100
1/4"	18-8 SS	1ZB11	100
3/8"	18-8 SS	1ZB13	100
1/2"	18-8 SS	1ZB14	100
#1-72 Thread Size			
1/8"	18-8 SS	1ZB17	100
3/16"	18-8 SS	1ZB18	100
1/4"	18-8 SS	1ZB19	100
3/8"	18-8 SS	1ZB20	100
#2-56 Thread Size			
1/8"	18-8 SS	1ZB21	100
3/16"	18-8 SS	1ZB22	100
1/4"	18-8 SS	1ZB23	100
5/16"	18-8 SS	1ZB24	100
3/8"	18-8 SS	1ZB25	100
7/16"	18-8 SS	1ZB26	100
1/2"	18-8 SS	1ZB27	100
5/8"	18-8 SS	1ZB29	100
3/4"	18-8 SS	1ZB30	100
7/8"	18-8 SS	1ZB31	100
1"	18-8 SS	1ZB32	100
#4-40 Thread Size			
1/8"	18-8 SS	1ZB33	100
3/16"	Steel	1ME93	100
	18-8 SS	1ZB34	100
1/4"	Steel	1ME94	100
	18-8 SS	1ZB35	100
5/16"	18-8 SS	1ZB36	100
3/8"	Steel	1ME96	100
	18-8 SS	1ZB37	100
7/16"	18-8 SS	1ZB38	100
1/2"	Steel	1ME97	100
	18-8 SS	1ZB39	100
5/8"	18-8 SS	1ZB41	100
3/4"	18-8 SS	1ZB43	100
7/8"	18-8 SS	1ZB44	100
1"	Steel	1MU10	100
	18-8 SS	1ZB45	100
1 1/4"	18-8 SS	1ZB47	100
1 1/2"	18-8 SS	1ZB49	100
#6-32 Thread Size			
3/16"	18-8 SS	1ZB53	100
1/4"	Steel	1MU12	100
3/8"	Steel	1MU13	100
	18-8 SS	1ZB54	100
7/16"	18-8 SS	1ZB55	100
1/2"	Steel	1MU14	100
	18-8 SS	1ZB56	100
5/8"	Steel	1MU15	100
	18-8 SS	1ZB58	100
3/4"	Steel	1MU16	100
	18-8 SS	1ZB59	100
7/8"	18-8 SS	1ZB60	100
1"	Steel	1MU17	100
	18-8 SS	1ZB61	100
1 1/4"	Steel	1MU18	100
	18-8 SS	1ZB63	100
1 1/2"	Steel	1MU19	100
	18-8 SS	1ZB65	100
1 3/4"	18-8 SS	1ZB66	100
2"	Steel	1MU20	100
	18-8 SS	1ZB67	100
2 1/2"	18-8 SS	1ZB68	100

Length	Material*	Item No.	Pkg. Qty.
#8-32 Thread Size			
3/16"	18-8 SS	1ZB69	100
1/4"	Steel	1MU21	100
	18-8 SS	1ZB70	100
5/16"	18-8 SS	1ZB71	100
3/8"	Steel	1MU23	100
	18-8 SS	1ZB72	100
7/16"	18-8 SS	1ZB73	100
1/2"	Steel	1MU24	100
	18-8 SS	1ZB74	100
5/8"	Steel	1MU25	100
	18-8 SS	1ZB76	100
3/4"	Steel	1MU26	100
	18-8 SS	1ZB77	100
7/8"	18-8 SS	1ZB78	100
1"	Steel	1MU28	100
	18-8 SS	1ZB79	100
1 1/4"	Steel	1MU29	100
	18-8 SS	1ZB81	100
1 1/2"	Steel	1MU30	100
	18-8 SS	1ZB83	100
1 3/4"	Steel	1MU31	100
	18-8 SS	1ZB84	100
2"	Steel	1MU32	100
	18-8 SS	1ZB85	100
2 1/4"	18-8 SS	1ZB86	100
2 1/2"	18-8 SS	1ZB87	100
2 3/4"	18-8 SS	31KH69	100
3"	18-8 SS	1ZB89	50
#10-24 Thread Size			
1/4"	18-8 SS	1ZB90	100
3/8"	Steel	1MU33	100
	18-8 SS	1ZB91	100
1/2"	Steel	1MU34	100
	18-8 SS	1ZB93	100
5/8"	Steel	1MU35	100
	18-8 SS	1ZB94	100
3/4"	Steel	1MU36	100
	18-8 SS	1ZB95	100
1"	Steel	1MU37	100
	18-8 SS	1ZB97	100
1 1/4"	Steel	1MU38	100
	18-8 SS	1ZB98	100
1 1/2"	Steel	1MU39	100
	18-8 SS	1ZB99	100
1 3/4"	18-8 SS	1ZE10	100
2"	Steel	1MU40	100
	18-8 SS	31KJ28	50
3"	18-8 SS	1ZE14	50

Length	Material*	Item No.	Pkg. Qty.
#10-32 Thread Size			
1/4"	Steel	1MU42	100
	18-8 SS	1ZE15	100
5/16"	18-8 SS	1ZE16	100
3/8"	Steel	1MU43	100
	18-8 SS	1ZE17	100
1/2"	Steel	1MU44	100
	18-8 SS	1ZE21	100
5/8"	18-8 SS	1ZE23	100
3/4"	Steel	1MU46	100
	18-8 SS	1ZE24	100
7/8"	18-8 SS	1ZE25	100
1"	Steel	1MU47	100
	18-8 SS	1ZE26	100
1 1/4"	18-8 SS	1ZE28	100
1 1/2"	Steel	1MU49	100
	18-8 SS	1ZE30	100
1 3/4"	18-8 SS	1ZE31	100
2"	18-8 SS	1ZE32	100
2 1/2"	18-8 SS	1ZE34	50
3"	18-8 SS	1ZE35	50
#12-24 Thread Size			
1/2"	18-8 SS	1ZE37	100
3/4"	18-8 SS	1ZE39	100
1"	18-8 SS	1ZE40	100
1/4"-20 Thread Size			
3/8"	Steel	1MU55	100
	18-8 SS	31JU88	50
1/2"	Steel	1MU56	100
	18-8 SS	31JU89	50
5/8"	18-8 SS	31JU90	50
3/4"	Steel	1MU57	100
	18-8 SS	31JU91	50
7/8"	18-8 SS	31JU92	50
1"	Steel	1MU58	100
	18-8 SS	31JU93	50
1 1/4"	Steel	1MU59	100
	18-8 SS	1ZE48	50
1 1/2"	Steel	1MU60	100
	18-8 SS	1ZE49	50
1 3/4"	18-8 SS	1ZE50	50
2"	Steel	1MU61	100
2 1/4"	18-8 SS	1ZE52	50
2 1/2"	18-8 SS	1ZE53	25
3"	18-8 SS	1ZE54	25
5/16"-18 Thread Size			
3/4"	18-8 SS	3AWF7	25
1"	18-8 SS	3AWF5	25
1 1/4"	18-8 SS	31JU95	25
1 1/2"	18-8 SS	31JU96	25
2"	18-8 SS	3AWF8	10
3/8"-16 Thread Size			
1"	18-8 SS	31JU97	25
1 1/2"	18-8 SS	31JU98	25
3"	18-8 SS	31JU99	10

** Steel screws are zinc-plated.*

Stainless Steel Oval Head Machine Screws

- 18-8 Stainless Steel
- 82° head angle
- Phillips drive

Meet ANSI/ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Item No.	Pkg. Qty.
#6-32 Thread Size		
1/4 in	2BB88	100
3/8 in	2BB90	100
1/2 in	2BB92	100
5/8 in	2BB94	100
3/4 in	2BB96	100
1 in	2BB98	100
1 1/2 in	2BE10	100
2 in	2BE12	100
#8-32 Thread Size		
1/4 in	2BE14	100
3/8 in	2BE16	100
1/2 in	2BE18	100
5/8 in	2BE20	100
3/4 in	2BE22	100
7/8 in	2BE24	100
1 in	2BE26	100
1 1/4 in	2BE28	100
1 1/2 in	2BE30	100
1 3/4 in	2BE32	100
2 in	2BE34	100
2 1/2 in	2BE36	100

Length	Item No.	Pkg. Qty.
#10-24 Thread Size		
3/8 in	2BE38	100
1/2 in	2BE40	100
5/8 in	2BE42	100
3/4 in	2BE44	100
1 in	2BE46	100
1 1/4 in	2BE48	100
1 1/2 in	2BE50	100
1 3/4 in	2BE52	100
2 1/2 in	2BE55	50
2 in	31KJ38	50
3 in	2BE57	50
#10-32 Thread Size		
3/8 in	2BE59	100
1/2 in	2BE61	100
5/8 in	2BE63	100
3/4 in	2BE65	100
1 in	2BE67	100
1 1/4 in	2BE69	100
1 1/2 in	2BE71	100
2 in	2BE73	100
3 in	2BE75	50

Length	Item No.	Pkg. Qty.
1/4"-20 Thread Size		
1/2 in	31JV44	50
5/8 in	31JV45	50
3/4 in	31JV46	50
1 in	2BE83	50
1 1/4 in	2BE85	50
1 1/2 in	2BE87	50
1 3/4 in	2BE89	50
2 in	2BE91	50
2 1/2 in	2BE93	25
3 in	2BE95	25
5/16"-18 Thread Size		
1 1/2 in	2BU13	25
1 1/4 in	31JV47	25
1 in	3AWP6	25
2 in	2BU15	10
2 1/2 in	2BU18	10
3 in	2BU22	10

Metric Pan Head Machine Screws

- Phillips drive

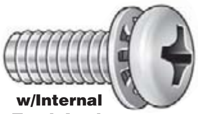
Meet DIN 7985 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
M1.6-0.35mm Thread Size			
3 mm	Steel	6GE10	100
4 mm	Steel	6GE11	100
5 mm	Steel	6GE12	100
6 mm	Steel	6GE13	100
M2-0.40mm Thread Size			
3 mm	A2 SS	6GB25	50
	Steel	6GE16	100
4 mm	A2 SS	54FR90	100
	Steel	6GE17	100
5 mm	A2 SS	54FR91	100
	Steel	6GE18	100
6 mm	A2 SS	54FR92	100
	Steel	6GE19	100
8 mm	A2 SS	54FR93	100
	Steel	6GE20	100
10 mm	A2 SS	54FR94	100
	Steel	6GE21	100
12 mm	A2 SS	54FR95	100
	Steel	6GE22	100
14 mm	A2 SS	38EA23	100
16 mm	A2 SS	54FR96	100
	Steel	6GE23	100
20 mm	Steel	6GE24	100
M2.5-0.45mm Thread Size			
4 mm	A2 SS	6GB34	100
5 mm	A2 SS	54FR97	100
	Steel	6GE27	100
6 mm	A2 SS	54FR98	100
	Steel	6GE28	100
8 mm	A2 SS	54FR99	100
	Steel	6GE29	100
10 mm	A2 SS	54FT01	100
	Steel	6GE30	100
12 mm	A2 SS	54FT02	100
	Steel	6GE31	100
14 mm	A2 SS	38EA24	100
16 mm	A2 SS	54FT03	100
	Steel	6GE32	100
20 mm	A2 SS	54FT04	100
	Steel	6GE33	100
25 mm	A2 SS	38EA25	100
	Steel	6GE34	100
30 mm	Steel	6GE35	100
M3-0.50mm Thread Size			
3 mm	Steel	6GE36	100
4 mm	A2 SS	6GB44	100
	Steel	6GE37	100
5 mm	A2 SS	54FT05	100
	Steel	6GE38	100
6 mm	A2 SS	54FT06	100
	Steel	6GE39	100
8 mm	A2 SS	54FT07	100
	Steel	6GE40	100
10 mm	A2 SS	54FT08	100
	Steel	6GE41	100
12 mm	A2 SS	54FT09	100
	Steel	6GE42	100
16 mm	A2 SS	54FT10	100
	Steel	6GE44	100
18 mm	Steel	6GE45	100
20 mm	A2 SS	54FT11	100
	Steel	6GE46	100
22 mm	Steel	6GE47	100
25 mm	A2 SS	54FT12	100
	Steel	6GE48	100
30 mm	A2 SS	54FT13	100
	Steel	6GE49	100
35 mm	A2 SS	54FT14	100
	Steel	6GE50	100
40 mm	A2 SS	54FT15	100
	Steel	6GE51	100
45 mm	Steel	6GE52	100
50 mm	Steel	6GE53	25
M3.5-0.60mm Thread Size			
5 mm	Steel	6GE54	100
8 mm	Steel	6GE56	100
10 mm	Steel	6GE57	100
12 mm	Steel	6GE58	100
16 mm	Steel	6GE59	100
30 mm	Steel	6GE62	25
M4-0.7mm Thread Size			
5 mm	A2 SS	54FT16	100
	Steel	6GE63	100
6 mm	A2 SS	54FT17	100
	Steel	6GE64	100
8 mm	A2 SS	54FT18	100
	Steel	6GE65	100
10 mm	A2 SS	54FT19	100
	Steel	6GE66	100
12 mm	A2 SS	54FT20	100
	Steel	6GE67	100
14 mm	Steel	6GE68	100

Length	Material	Item No.	Pkg. Qty.
16 mm	A2 SS	54FT21	100
	A4 SS	6GB15	50
	Steel	6GE69	100
18 mm	Steel	6GE70	100
20 mm	A2 SS	54FT22	100
	A4 SS	6GB16	50
	Steel	6GE71	100
25 mm	A2 SS	54FT23	100
	Steel	6GE72	100
30 mm	A2 SS	54FT24	100
	Steel	6GE73	100
35 mm	A2 SS	54FT25	100
	Steel	6GE74	100
40 mm	A2 SS	54FT26	100
	Steel	6GE75	100
45 mm	Steel	6GE76	100
50 mm	Steel	6GE77	100
55 mm	Steel	6GE78	25
60 mm	Steel	6GE79	25
70 mm	Steel	6GE80	10
80 mm	Steel	6GE81	10
M5-0.8mm Thread Size			
6 mm	A2 SS	38EA28	100
	Steel	6GE82	100
8 mm	A2 SS	54FT27	100
	Steel	6GE83	100
10 mm	A2 SS	54FT28	100
	A4 SS	6GB17	50
	Steel	6GE84	100
12 mm	A2 SS	54FT29	50
	Steel	6GE85	100
14 mm	Steel	6GE86	100
16 mm	A2 SS	54FT30	100
	Steel	6GE87	100
18 mm	Steel	6GE88	100
20 mm	A2 SS	54FT31	50
	A4 SS	6GB20	25
	Steel	6GE89	100
25 mm	A2 SS	54FT32	100
	Steel	6GE90	100
30 mm	A2 SS	54FT33	25
	Steel	6GE91	100
35 mm	Steel	6GE92	100
40 mm	A2 SS	54FT34	50
	Steel	6GE93	50
60 mm	A2 SS	54FT35	10
	Steel	6GE96	50
70 mm	Steel	6GE97	10
80 mm	Steel	6GE98	5
M6-1.00mm Thread Size			
6 mm	Steel	6GE99	50
8 mm	A2 SS	54FT36	50
	Steel	6GU10	100
10 mm	A2 SS	54FT37	25
	A4 SS	6GB21	25
	Steel	6GU11	100
12 mm	A2 SS	54FT38	50
	A4 SS	6GB22	25
	Steel	6GU12	100
14 mm	Steel	6GU13	100
16 mm	A2 SS	54FT39	50
	A4 SS	6GB23	25
	Steel	6GU14	100
18 mm	Steel	6GU15	25
20 mm	A2 SS	54FT40	50
	A4 SS	6GB24	25
	Steel	6GU16	100
22 mm	Steel	6GU17	25
25 mm	A2 SS	54FT41	50
	Steel	6GU18	100
30 mm	A2 SS	54FT42	25
	Steel	6GU19	100
35 mm	A2 SS	54FT43	25
	Steel	6GU20	100
40 mm	A2 SS	54FT44	25
50 mm	Steel	6GU23	50
60 mm	Steel	6GU24	25
70 mm	Steel	6GU25	10
75 mm	Steel	6GU26	10
80 mm	Steel	6GU27	5
M8-1.25mm Thread Size			
10 mm	Steel	6GU28	10
16 mm	Steel	6GU30	50
20 mm	A2 SS	54FT45	25
	Steel	6GU31	50
25 mm	A2 SS	54FT46	10
30 mm	A2 SS	38EA31	50
	Steel	6GU33	10
40 mm	Steel	6GU35	10
80 mm	Steel	6GU39	1
M10-1.50mm Thread Size			
16 mm	Steel	6GU40	5
20 mm	Steel	6GU41	5
35 mm	Steel	6GU44	5
40 mm	Steel	6GU45	1

Pan Head Machine Screws with Washer



w/Internal Tooth Lock Washer

w/Split Lock Washer

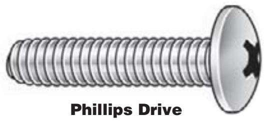
Meet ASME/ANSI B18.13 standards.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
Dual Action Spring, Phillips Drive			
#4-40 Thread			
¼"	18-8 SS	**1KAE6**	25
⅜"	18-8 SS	**1KAE8**	25
7⁄16"	18-8 SS	**1KAE9**	25
#6-32 Thread			
¼"	Steel	**1PWV7**	100
⅜"	Steel	**1PWV9**	100
½"	18-8 SS	**1PWT9**	25
	Steel	**1PWX2**	100
¾"	Steel	**1PWX4**	100
#8-32 Thread			
⅜"	18-8 SS	**1PWU4**	25
	Steel	**1PWX7**	100
7⁄16"	18-8 SS	**1PWU6**	25
½"	18-8 SS	**1PWU8**	25
	Steel	**1PWX8**	100
¾"	Steel	**1PWX9**	50
1"	Steel	**1PWY2**	50
#10-32 Thread			
½"	18-8 SS	**1PWV3**	25
External Tooth, Hex Drive			
#6-32 Thread			
¼"	Steel	**1PWY4**	100
⅜"	Steel	**1PWY6**	100
½"	Steel	**1PWY7**	100
#8-32 Thread			
⅜"	Steel	**1PWY8**	100
½"	Steel	**1PWY9**	100
#10-24 Thread			
⅜"	Steel	**1PWZ1**	100
½"	Steel	**1PWZ2**	100
#10-32 Thread			
⅜"	Steel	**1PWZ3**	100
½"	Steel	**1PWZ4**	100
¼"-20 Thread			
½"	Steel	**1PWZ7**	50
¾"	Steel	**1PWZ9**	50
1"	Steel	**1PXA3**	25
External Tooth, Phillips Drive			
#4-40 Thread			
3⁄16"	18-8 SS	**1ZE84**	50
¼"	Steel	**1PXF3**	100
	18-8 SS	**1ZE85**	50
5⁄16"	18-8 SS	**1PXA5**	50
⅜"	18-8 SS	**1ZE86**	50
½"	18-8 SS	**1PXA8**	50
	Steel	**1PXF5**	100
⅝"	Steel	**1PXF6**	100
¾"	Steel	**1PXF7**	100
#6-32 Thread			
3⁄16"	Steel	**1PXF8**	100
¼"	Steel	**1PXF9**	100
	18-8 SS	**1ZE87**	50
5⁄16"	Steel	**1PXG1**	100
	18-8 SS	**1ZE88**	50
⅜"	Steel	**1PXG2**	100
	18-8 SS	**1ZE89**	50
7⁄16"	Steel	**1PXG3**	100
½"	Steel	**1PXG4**	100
	18-8 SS	**1ZE90**	50
¾"	18-8 SS	**1PXC1**	50
	Steel	**1PXG5**	100
1"	18-8 SS	**1PXC5**	25
	Steel	**1PXG6**	100
1¼"	Steel	**1PXG7**	100
1½"	18-8 SS	**1PXC9**	10
#8-32 Thread			
¼"	Steel	**1PXG8**	100
	18-8 SS	**1ZE91**	50
5⁄16"	18-8 SS	**1PXD2**	50
	Steel	**1PXG9**	100
⅜"	Steel	**1PXH1**	100
	18-8 SS	**1ZE92**	50
7⁄16"	Steel	**1PXH2**	100
½"	Steel	**1PXH3**	100
	18-8 SS	**1ZE93**	50
⅝"	18-8 SS	**1PXD6**	50
¾"	18-8 SS	**1PXD8**	25
	Steel	**1PXH4**	100
1"	18-8 SS	**1PXE1**	25
1¼"	Steel	**1PXH5**	100
#10-24 Thread			
⅜"	Steel	**1PXH6**	100
½"	Steel	**1PXH7**	100

Length	Material	Item No.	Pkg. Qty.
#10-32 Thread			
¼"	18-8 SS	**1PXE3**	25
⅜"	18-8 SS	**1PXE4**	25
½"	18-8 SS	**1PXE5**	25
¾"	18-8 SS	**1PXE7**	25
	Steel	**1PXJ1**	100
¼"-20 Thread			
½"	18-8 SS	**1PXE8**	5
	Steel	**1PXJ2**	50
⅝"	18-8 SS	**1PXE9**	5
¾"	18-8 SS	**1PXF1**	5
	Steel	**1PXJ3**	50
1"	18-8 SS	**1PXF2**	5
Internal Tooth, Phillips Drive			
#2-56 Thread			
3⁄16"	Steel	**1PXP3**	50
¼"	Steel	**1PXP4**	50
⅜"	18-8 SS	**1PXJ6**	50
	Steel	**1PXP5**	50
#4-40 Thread			
3⁄16"	18-8 SS	**1PXK1**	50
	Steel	**1PXP6**	50
¼"	18-8 SS	**1PXK2**	50
	Steel	**1PXP7**	100
5⁄16"	18-8 SS	**1ZE74**	50
⅜"	Steel	**1PXP8**	100
	18-8 SS	**1ZE75**	50
7⁄16"	18-8 SS	**1PXK3**	50
½"	18-8 SS	**1PXK4**	50
	Steel	**1PXP9**	100
¾"	18-8 SS	**1PXK6**	50
1"	18-8 SS	**1PXK8**	25
#6-32 Thread			
3⁄16"	18-8 SS	**1PXK9**	50
¼"	Steel	**1PXR2**	100
	18-8 SS	**1ZE76**	50
5⁄16"	18-8 SS	**1ZE77**	50
⅜"	Steel	**1PXR3**	100
	18-8 SS	**1ZE78**	50
7⁄16"	18-8 SS	**1PXL1**	50
½"	18-8 SS	**1PXL2**	50
	Steel	**1PXR4**	100
⅝"	18-8 SS	**1ZE79**	50
¾"	18-8 SS	**1PXL3**	50
	Steel	**1PXR5**	100
1"	18-8 SS	**1PXL5**	25
1¼"	Steel	**1PXR7**	50
1½"	18-8 SS	**1PXL7**	10
#8-32 Thread			
¼"	18-8 SS	**1PXL8**	50
	Steel	**1PXR8**	100
5⁄16"	18-8 SS	**1PXL9**	50
⅜"	18-8 SS	**1ZE80**	50
7⁄16"	18-8 SS	**1PXN1**	50
½"	Steel	**1PXT1**	100
	18-8 SS	**1ZE81**	50
⅝"	18-8 SS	**1PXN2**	50
¾"	18-8 SS	**1PXN3**	25
1"	18-8 SS	**1PXN4**	25
1¼"	Steel	**1PXT3**	100
#10-24 Thread			
½"	Steel	**1PXT4**	100
#10-32 Thread			
¼"	18-8 SS	**1PXN5**	25
⅜"	18-8 SS	**1ZE82**	25
½"	18-8 SS	**1ZE83**	25
⅝"	18-8 SS	**1PXN6**	25
¾"	18-8 SS	**1PXN7**	25
¼"-20 Thread			
½"	18-8 SS	**1PXN8**	5
	Steel	**1PXT8**	100
¾"	18-8 SS	**1PXP1**	5
	Steel	**1PXT9**	50
1"	18-8 SS	**1PXP2**	5
Split Lock, Phillips Drive			
#4-40 Thread			
¼"	Steel	**1PXU1**	100
5⁄16"	Steel	**1PXU2**	100
½"	Steel	**1PXU4**	100
#6-32 Thread			
¼"	Steel	**1PXU5**	100
5⁄16"	Steel	**1PXU6**	100
½"	Steel	**1PXU8**	100
⅝"	Steel	**1PXU9**	100
#8-32 Thread			
½"	Steel	**1PXW2**	100
⅝"	Steel	**1PXW3**	100
#10-32 Thread			
⅜"	Steel	**1PXW5**	100
½"	Steel	**1PXW6**	100

Truss Head Machine Screws



Phillips Drive

- Phillips drive

Meet ANSI/ASME B18.6.13.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
#4-40 Thread			
¼"	18-8 SS	**2CB71**	100
5⁄16"	18-8 SS	**2CB73**	100
⅜"	18-8 SS	**2CB75**	100
½"	18-8 SS	**2CB77**	100
#6-32 Thread			
¼"	18-8 SS	**2CB79**	100
⅜"	18-8 SS	**2CB83**	100
	Steel	**31JT47**	100
7⁄16"	18-8 SS	**2CB86**	100
½"	18-8 SS	**2CB89**	100
	Steel	**31JT48**	100
⅝"	18-8 SS	**2CB92**	100
¾"	18-8 SS	**2CB95**	100
1"	18-8 SS	**2CB98**	100
	Steel	**31JT49**	100
#8-32 Thread			
¼"	18-8 SS	**2CE11**	100
5⁄16"	18-8 SS	**2CE14**	100
⅜"	18-8 SS	**2CE16**	100
	Steel	**31JT50**	100
7⁄16"	18-8 SS	**2CE19**	100
½"	18-8 SS	**2CE22**	100
	Steel	**31JT51**	100
⅝"	18-8 SS	**2CE25**	100
¾"	18-8 SS	**2CE28**	100
	Steel	**31JT52**	100
1"	18-8 SS	**2CE31**	100
1¼"	18-8 SS	**2CE34**	100
#10-24 Thread			
⅜"	18-8 SS	**2CE37**	100
½"	18-8 SS	**2CE40**	100
	Steel	**31JT53**	100
⅝"	18-8 SS	**2CE43**	100
¾"	18-8 SS	**2CE46**	100
⅞"	18-8 SS	**2CE49**	100
1"	18-8 SS	**2CE52**	100
1¼"	18-8 SS	**2CE55**	100
1½"	18-8 SS	**2CE58**	100
2"	18-8 SS	**31KJ39**	50
#10-32 Thread			
¼"	18-8 SS	**2CE64**	100
5⁄16"	18-8 SS	**2CE67**	100
⅜"	18-8 SS	**2CE70**	100
½"	18-8 SS	**2CE73**	100
⅝"	18-8 SS	**2CE76**	100
¾"	18-8 SS	**2CE79**	100
1"	18-8 SS	**2CE82**	100
1¼"	18-8 SS	**2CE85**	100
1½"	18-8 SS	**2CE88**	100
¼"-20 Thread			
⅜"	18-8 SS	**31JV50**	50
½"	18-8 SS	**31JV51**	50
⅝"	18-8 SS	**31JV52**	50
¾"	18-8 SS	**31JV53**	50
1"	18-8 SS	**3AWR2**	50
1¼"	18-8 SS	**3AWP8**	50
1½"	18-8 SS	**2CU19**	50
1¾"	18-8 SS	**2CU22**	50
2"	18-8 SS	**3AWR1**	25
2½"	18-8 SS	**3AWP9**	25
5⁄16"-18 Thread			
¾"	18-8 SS	**3AWR8**	25
1"	18-8 SS	**3AWR7**	25
1½"	18-8 SS	**3AWR6**	25

18-8 Stainless Steel Hex Trim Head Machine Screws

Meet ANSI/ASME B18.6.3 standard.

Note: Zinc-plated also available; on Grainger.com®, search for "Zinc-plated hex head machine screws".

Length	Item No.	Pkg. Qty.
#4-40 Thread, 3⁄16 in Drive		
¼ in	**1PRV7**	100
⅜ in	**1PRV8**	100
½ in	**1PRV9**	100
¾ in	**1PRW1**	100
#6-32 Thread, ¼ in Drive		
¼ in	**1PRW2**	100
5⁄16 in	**1PRW3**	100
⅜ in	**1PRW4**	100
½ in	**1PRW5**	100
⅝ in	**1PRW6**	100
¾ in	**1PRW7**	100
1 in	**1PRW8**	100
#8-32 Thread, ¼ in Drive		
¼ in	**1PRW9**	100
5⁄16 in	**1PRX1**	100
⅜ in	**1PRX2**	100
½ in	**1PRX3**	100
⅝ in	**1PRX4**	100
¾ in	**1PRX5**	100
⅞ in	**1PRX6**	100
1 in	**1PRX7**	100
1 ¼ in	**1PRX8**	100
1 ½ in	**1PRX9**	50
#10-24 Thread, 5⁄16 in Drive		
¼ in	**1PRY1**	100
⅜ in	**1PRY2**	100
½ in	**1PRY3**	100
⅝ in	**1PRY4**	100
¾ in	**1PRY5**	100
1 in	**1PRY6**	100
1 ¼ in	**1PRY7**	50
1 ½ in	**1PRY8**	50
#10-32 Thread, 5⁄16 in Drive		
¼ in	**1PRY9**	100
5⁄16 in	**1PRZ1**	100
⅜ in	**1PRZ2**	100
½ in	**1PRZ3**	100
⅝ in	**1PRZ4**	100

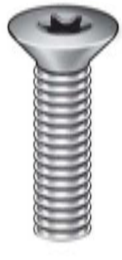
Flat Head Machine Screws

- 82° head angle

Meet ANSI/ASME B18.6.3 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com.

Phillips Drive



Torx® Drive

Length	Material*	Brand	Item No.	Pkg. Qty.
#2-56 Thread Phillips Drive				
1/8"	18-8 SS	—	2AA26	100
3/16"	18-8 SS	—	2AA28	100
1/4"	18-8 SS	—	2AA30	100
5/16"	18-8 SS	—	2AA32	100
3/8"	18-8 SS	—	2AA34	100
7/16"	18-8 SS	—	2AA36	100
1/2"	18-8 SS	—	2AA38	100
9/16"	18-8 SS	—	2AA40	100
5/8"	18-8 SS	—	2AA42	100
3/4"	18-8 SS	—	2AA44	100
7/8"	18-8 SS	—	2AA46	100
1"	18-8 SS	—	2AA48	100
#4-40 Thread Phillips Drive				
1/8"	18-8 SS	—	2AA50	100
3/16"	18-8 SS	—	2AA52	100
1/4"	Steel	—	1MU63	100
	18-8 SS	—	2AA54	100
5/16"	18-8 SS	—	2AA56	100
3/8"	Steel	—	1MU64	100
	18-8 SS	—	2AA58	100
7/16"	18-8 SS	—	2AA60	100
1/2"	Steel	—	1MU65	100
	18-8 SS	—	2AA62	100
9/16"	18-8 SS	—	2AA64	100
5/8"	18-8 SS	—	2AA66	100
3/4"	Steel	—	1MU66	100
	18-8 SS	—	2AA68	100
7/8"	18-8 SS	—	2AA70	100
1"	Steel	—	1MU67	100
	18-8 SS	—	2AA72	100
1 1/4"	18-8 SS	—	2AA74	100
1 1/2"	Steel	—	1MU68	100
	18-8 SS	—	2AA76	100
#4-40 Thread Torx Drive				
1/2"	Steel	Tamper-Pruf Screw	5JU88	100
5/8"	Steel	Tamper-Pruf Screw	5JU89	100
#6-32 Thread Phillips Drive				
3/16"	18-8 SS	—	2AA78	100
1/4"	Steel	—	1MU69	100
	18-8 SS	—	2AA80	100
5/16"	18-8 SS	—	2AA82	100
3/8"	Steel	—	1MU70	100
	18-8 SS	—	2AA84	100
7/16"	18-8 SS	—	2AA86	100
1/2"	Steel	—	1MU71	100
	18-8 SS	—	2AA88	100
9/16"	18-8 SS	—	2AA90	100
5/8"	Steel	—	1MU72	100
	18-8 SS	—	2AA92	100
3/4"	Steel	—	1MU73	100
	18-8 SS	—	2AA94	100
7/8"	18-8 SS	—	2AA96	100
1"	Steel	—	1MU74	100
	18-8 SS	—	2AA98	100
1 1/4"	Steel	—	1MU75	100
	18-8 SS	—	2AB10	100
1 1/2"	Steel	—	1MU76	100
	18-8 SS	—	2AB12	100
1 3/4"	18-8 SS	—	2AB15	100
2"	Steel	—	1MU77	100
	18-8 SS	—	2AB17	100
2 1/2"	18-8 SS	—	2AB19	100
3"	18-8 SS	—	31KJ35	50
#6-32 Thread Torx Drive				
3/4"	Steel	Tamper-Pruf Screw	5JU94	100
1"	Steel	Tamper-Pruf Screw	5JU95	100
1 1/2"	Steel	Tamper-Pruf Screw	5JU97	50
2"	Steel	Tamper-Pruf Screw	5JU98	50

** Steel screws are zinc-plated.*

Length	Material*	Brand	Item No.	Pkg. Qty.
#8-32 Thread Phillips Drive				
1/4"	Steel	—	1MU78	100
	18-8 SS	—	2AB23	100
5/16"	18-8 SS	—	2AB25	100
3/8"	Steel	—	1MU79	100
	18-8 SS	—	2AB27	100
7/16"	18-8 SS	—	2AB29	100
1/2"	18-8 SS	—	2AB31	100
5/8"	Steel	—	1MU80	100
	18-8 SS	—	2AB33	100
3/4"	Steel	—	1MU81	100
	18-8 SS	—	2AB35	100
7/8"	18-8 SS	—	2AB37	100
1"	Steel	—	1MU82	100
	18-8 SS	—	2AB39	100
1 1/4"	Steel	—	1MU83	100
	18-8 SS	—	2AB41	100
1 1/2"	Steel	—	1MU84	100
	18-8 SS	—	2AB43	100
1 3/4"	18-8 SS	—	2AB45	100
2"	Steel	—	1MU85	100
	18-8 SS	—	2AB47	100
2 1/2"	Steel	—	1MU86	100
	18-8 SS	—	2AB49	100
2 3/4"	18-8 SS	—	31KH72	100
3"	Steel	—	1MU87	100
	18-8 SS	—	2AB53	50
#8-32 Thread Torx Drive				
1"	Steel	Tamper-Pruf Screw	5JY11	100
1 1/4"	Steel	Tamper-Pruf Screw	5JY12	50
1 1/2"	Steel	Tamper-Pruf Screw	5JY13	50
#10-24 Thread Phillips Drive				
1/4"	18-8 SS	—	2AB55	100
5/16"	18-8 SS	—	2AB57	100
3/8"	Steel	—	1MU88	100
	18-8 SS	—	2AB59	100
1/2"	Steel	—	1MU89	100
	18-8 SS	—	2AB61	100
5/8"	Steel	—	1MU90	100
	18-8 SS	—	2AB63	100
3/4"	Steel	—	1MU91	100
	18-8 SS	—	2AB65	100
7/8"	18-8 SS	—	2AB67	100
1"	Steel	—	1MU92	100
	18-8 SS	—	2AB69	100
1 1/4"	Steel	—	1MU93	100
	18-8 SS	—	2AB71	100
1 1/2"	Steel	—	1MU94	100
	18-8 SS	—	2AB73	100
1 3/4"	18-8 SS	—	2AB75	100
2"	Steel	—	1MU95	100
	18-8 SS	—	31KJ36	50
2 1/2"	Steel	—	1MU96	100
	18-8 SS	—	31KJ37	50
3"	Steel	—	1MU97	100
	18-8 SS	—	2AB81	50
#10-24 Thread Torx Drive				
2 1/2"	Steel	Tamper-Pruf Screw	5JY20	50
#10-32 Thread Phillips Drive				
3/8"	Steel	—	1MU99	100
	18-8 SS	—	2AB87	100
1/2"	Steel	—	1MY10	100
	18-8 SS	—	2AB91	100
5/8"	Steel	—	1MY11	100
	18-8 SS	—	2AB93	100
3/4"	Steel	—	1MY12	100
	18-8 SS	—	2AB95	100
7/8"	18-8 SS	—	2AB97	100
1"	Steel	—	1MY13	100
	18-8 SS	—	2AB99	100
1 1/4"	18-8 SS	—	2AE11	100

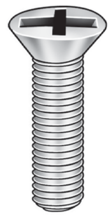
Length	Material*	Brand	Item No.	Pkg. Qty.
1 1/2"	Steel	—	1MY15	100
	18-8 SS	—	2AE13	100
1 3/4"	18-8 SS	—	2AE15	100
2"	18-8 SS	—	2AE17	100
2 1/2"	Steel	—	1MY17	100
	18-8 SS	—	2AE19	100
3"	Steel	—	1MY18	100
	18-8 SS	—	2AE21	50
#12-24 Thread Phillips Drive				
3/8"	Steel	—	1MY19	100
1/2"	Steel	—	1MY20	100
3/4"	Steel	—	1MY21	100
1"	Steel	—	1MY22	100
1 1/4"	Steel	—	1MY23	100
1 1/2"	Steel	—	1MY24	100
1/4"-20 Thread Phillips Drive				
3/8"	Steel	—	1MY25	100
	18-8 SS	—	31JV31	50
1/2"	Steel	—	1MY26	100
	18-8 SS	—	31JV32	50
5/8"	Steel	—	1MY27	100
	18-8 SS	—	31JV33	50
3/4"	Steel	—	1MY28	100
	18-8 SS	—	31JV34	50
7/8"	18-8 SS	—	31JV35	50
1"	Steel	—	1MY29	100
	18-8 SS	—	31JV36	50
1 1/4"	Steel	—	1MY30	100
	18-8 SS	—	31JV37	50
1 1/2"	Steel	—	1MY31	100
	18-8 SS	—	31JV38	50
1 3/4"	18-8 SS	—	3AWL4	50
2"	Steel	—	1MY32	100
	18-8 SS	—	2AE41	50
2 1/4"	18-8 SS	—	2AE43	50
2 1/2"	Steel	—	1MY33	100
	18-8 SS	—	2AE45	50
3"	Steel	—	1MY34	100
	18-8 SS	—	2AE47	25
1/4"-20 Thread Torx Drive				
1"	Steel	Tamper-Pruf Screw	5JY22	100
5/16"-18 Thread Phillips Drive				
1/2"	18-8 SS	—	3AWN4	25
5/8"	18-8 SS	—	2AE55	25
3/4"	Steel	—	1MY37	100
	18-8 SS	—	3AWN2	25
1"	Steel	—	1MY38	100
	18-8 SS	—	3AWL7	25
1 1/4"	18-8 SS	—	2AE61	25
1 1/2"	Steel	—	1MY40	100
	18-8 SS	—	3AWL9	25
1 3/4"	18-8 SS	—	3AWN8	25
2"	Steel	—	1MY41	100
	18-8 SS	—	31JV40	10
2 1/2"	Steel	—	1MY42	100
	18-8 SS	—	3AWN9	10
3"	Steel	—	1MY43	100
	18-8 SS	—	2AE71	10
3/8"-16 Thread Phillips Drive				
3/4"	18-8 SS	—	3AWP3	25
1"	Steel	—	1MY44	100
	18-8 SS	—	3AWP2	25
1 1/4"	18-8 SS	—	31JV41	25
1 1/2"	Steel	—	1MY45	100
	18-8 SS	—	31JV42	25
1 3/4"	18-8 SS	—	31JV43	25
2"	18-8 SS	—	3AWN6	10
2 1/2"	18-8 SS	—	2AE90	10
3"	Steel	—	1MY46	50
	18-8 SS	—	3AWN7	10

Metric Flat Head Machine Screws

- 90° head angle
- Phillips drive

Meet DIN 965 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com.



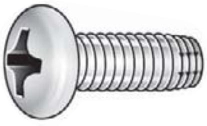
Phillips Drive

Length	Material	Item No.	Pkg. Qty.
M2-0.40mm Thread			
4 mm	Steel	6HB56	100
5 mm	Steel	6HB57	100
6 mm	Steel	6HB58	100
8 mm	Steel	6HB59	100
10 mm	Steel	6HB60	100
12 mm	Steel	6HB61	100
M2.5-0.45mm Thread			
4 mm	Steel	6HB64	100
5 mm	Steel	6HB65	100
6 mm	Steel	6HB66	100
8 mm	Steel	6HB67	100
10 mm	Steel	6HB68	100
16 mm	Steel	6HB70	100
M3-0.50mm Thread			
4 mm	Steel	6HB72	100
5 mm	A2 SS	6HA94	100
	A4 SS	31JR81	50
	Steel	6HB73	100
6 mm	A4 SS	31JR82	50
	Steel	6HB74	100
8 mm	A4 SS	31JR83	50
10 mm	A4 SS	31JR84	50
	Steel	6HB76	100
12 mm	A4 SS	31JR85	50
	Steel	6HB77	100
14 mm	Steel	6HB78	100
16 mm	A4 SS	31JR86	50
	Steel	6HB79	100

Length	Material	Item No.	Pkg. Qty.
20 mm	A4 SS	31JR87	50
25 mm	Steel	6HB81	100
30 mm	Steel	6HB82	100
35 mm	A2 SS	31KH82	100
40 mm	Steel	6HB83	100
50 mm	Steel	6HB85	50
M4-0.7mm Thread			
6 mm	A4 SS	31JR88	50
	Steel	6HB86	100
8 mm	A4 SS	31JR89	50
	Steel	6HB87	100
10 mm	A4 SS	31JR90	50
	Steel	6HB88	100
12 mm	A4 SS	31JR91	50
	Steel	6HB89	100
14 mm	Steel	6HB90	100
16 mm	A4 SS	31JR92	50
	Steel	6HB91	100
20 mm	A4 SS	6HA60	50
	Steel	6HB92	100
25 mm	A4 SS	31KH62	50
	Steel	6HB93	100
30 mm	Steel	6HB94	100
40 mm	A2 SS	31JR65	100
	Steel	6HB96	100
45 mm	A2 SS	31KH83	100
	Steel	6HB97	100
60 mm	Steel	6HB98	50
80 mm	Steel	6HB99	25

Length	Material	Item No.	Pkg. Qty.
M5-0.8mm Thread			
8 mm	Steel	6HE10	100
10 mm	A4 SS	6HA62	50
	Steel	6HE11	100
12 mm	A4 SS	31KJ08	25
	Steel	6HE12	100
14 mm	Steel	6HE13	100
16 mm	A4 SS	31KJ09	25
	Steel	6HE14	100
20 mm	A4 SS	31KJ10	25
	Steel	6HE15	100
25 mm	A2 SS	31KH84	100
	A4 SS	6HA66	25
	Steel	6HE16	100
30 mm	A4 SS	31JR93	25
	Steel	6HE17	100
35 mm	Steel	6HE18	100
40 mm	A4 SS	6HA68	10
	Steel	31JP83	50
50 mm	Steel	31JP84	50
60 mm	Steel	6HE21	25
M6-1.00mm Thread			
10 mm	A4 SS	31KJ11	25
	Steel	6HE22	100
12 mm	A4 SS	31KJ12	25
	Steel	6HE23	100
16 mm	A4 SS	31KJ13	25
	Steel	6HE24	100
20 mm	A4 SS	31KJ14	25
	Steel	6HE25	100

Length	Material	Item No.	Pkg. Qty.
25 mm	A4 SS	31JR94	10
	Steel	6HE26	100
30 mm	A2 SS	31KH85	100
	A4 SS	6HA74	10
	Steel	6HE27	100
35 mm	A2 SS	31KH86	100
	A4 SS	6HA75	10
	Steel	6HE28	100
40 mm	A4 SS	6HA76	10
	Steel	31JP85	50
45 mm	A2 SS	31KH87	50
	Steel	6HE30	50
50 mm	A2 SS	31KH88	50
	Steel	31JP86	50
60 mm	Steel	6HE32	25
80 mm	Steel	6HE33	25
M8-1.25mm Thread			
16 mm	A2 SS	6HB47	50
	Steel	6HE34	50
20 mm	A2 SS	31KH89	50
	Steel	6HE35	50
25 mm	A2 SS	31KH90	50
	Steel	6HE36	50
30 mm	A2 SS	31KH91	50
	Steel	6HE37	50
35 mm	Steel	31JP87	25
40 mm	Steel	31JP88	25
50 mm	A2 SS	31KH92	25
	Steel	31JP89	25



Pan-Head, Phillips Drive

Thread-Cutting Screws

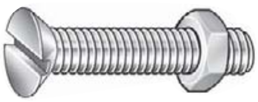
Tapping screws create a zero-clearance, tight fit in hard materials such as plastic, heavy-gauge sheet metal, aluminum, cast iron, brass, zinc, and lead die castings. Meet ANSI/ASME B18.6 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Thread Size	L	Driver Size	Item No.	Pkg. Qty.
410 Stainless Steel				
Pan Head, Phillips				
4-40	¼ in	#1	**1WU14**	100
6-32	⅜ in	#2	**1WU20**	100
	½ in	#2	**1WU22**	100
	⅝ in	#2	**1WU24**	100
	¾ in	#2	**1WU26**	100
8-32	⅜ in	#2	**1WU30**	100
	½ in	#2	**1WU32**	100
	¾ in	#2	**1WU36**	100
10-24	⅜ in	#2	**1WU38**	100
	½ in	#2	**1WU40**	100
	⅝ in	#2	**1WU42**	100
	¾ in	#2	**1WU44**	100
10-32	½ in	#2	**1WU48**	100
	⅝ in	#2	**1WU50**	100
Case Hardened Steel				
Flat Head, Star				
¼-20	1 in	T30	**6YE70** *	100
	1 ½ in	T30	**6YE72** *	100
¼"-20	2 in	T30	**6YE73** *	100
¼-20	2 ½ in	T30	**6YE75** *	100
5/16-18	2 in	T40	**6YE76** *	50
Pan Head, Phillips				
10-32	½ in	#2	**1HA48**	100
¼-20	¾ in	#3	**1HA51**	25
	1 in	#3	**1HA52**	25
Hardened Steel				
Flat Head, Star				
¼-20	1 ¼ in	T30	**6YE71** *	100
	2 ¼ in	T30	**6YE74** *	100
5/16-18	2 ¼ in	T40	**6YE77** *	50
	2 ½ in	T40	**6YE78** *	50
	3 in	T40	**6YE79** *	50
Pan Head, Phillips				
4-40	¼ in	#1	**1HA29**	100
	⅜ in	#1	**1HA30**	100
	½ in	#1	**1HA31**	100
6-32	¼ in	#2	**1HA32**	100
	⅜ in	#2	**1HA33**	100
	½ in	#2	**1HA34**	100
	⅝ in	#2	**1HA35**	100
	¾ in	#2	**1HA36**	100
8-32	⅜ in	#2	**1HA37**	100
	½ in	#2	**1HA38**	100
	⅝ in	#2	**1HA39**	100
	¾ in	#2	**1HA40**	100
	1 in	#2	**1HA41**	100
10-24	⅜ in	#2	**1HA42**	100
	½ in	#2	**1HA43**	100
	⅝ in	#2	**1HA44**	100
	¾ in	#2	**1HA45**	100
	1 in	#2	**1HA46**	50
10-32	⅜ in	#2	**1HA47**	100
	¾ in	#2	**1HA49**	100
¼-20	½ in	#3	**1HA50**	25

** Especially for installing wood floors into truck trailers.*

Round Head



Flat Head

Stove Bolts

- Slotted drive
- Pkg. 100

Machine screws come with matching nuts for easy installation. Zinc-plated low-carbon steel. Meet ASME B18.6.3 standard.

Length	Head Type	Item No.
#6-32 Thread		
¾ in	Round	**2XJ81**
1 in	Round	**2XJ82**
1 ½ in	Round	**2XJ83**
2 in	Round	**2XJ84**
#8-32 Thread		
½ in	Round	**2EA55**
¾ in	Round	**2EA57**
1 in	Round	**2EA59**
1 ½ in	Round	**2EA61**
#10-24 Thread		
½ in	Round	**2EA63**
⅝ in	Round	**2EA65**
¾ in	Round	**2EA67**
1 in	Round	**2EA68**
1 ½ in	Round	**2EA72**
2 in	Round	**2EA76**
2 ½ in	Round	**2EA78**
3 in	Round	**2EA80**
3/16"-24 Thread		
1 in	Flat	**2XJ60**
1 ½ in	Flat	**2XJ62**
2 in	Flat	**2XJ63**
3 in	Flat	**2XJ64**
4 in	Flat	**2XJ65**
¼"-20 Thread		
⅜ in	Round	**2EA82**
½ in	Round	**2EA84**
⅝ in	Round	**2EA86**
¾ in	Round	**2EA87**
	Flat	**2XJ66**
1 in	Round	**2EA89**
1 ¼ in	Round	**2EA91**
1 ½ in	Round	**2EA93**
1 ¾ in	Round	**2EA95**
1 in	Flat	**2XJ67**
1 ¼ in	Flat	**2XJ68**
1 ½ in	Flat	**2XJ69**
2 in	Round	**2EA97**
2 ¼ in	Round	**2XJ86**
2 ½ in	Round	**2XJ87**
2 in	Flat	**2XJ70**
2 ¼ in	Flat	**2XJ71**
3 in	Round	**2EA99**
	Flat	**2XJ72**
4 in	Round	**2EB11**
	Flat	**2XJ73**
5 in	Round	**2EB13**
6 in	Round	**2XJ88**
	Flat	**2XJ74**
5/16"-18 Thread		
1 ½ in	Flat	**2XJ75**
2 in	Round	**2XJ89**
2 ½ in	Round	**2XJ90**
2 in	Flat	**2XJ76**
⅜"-16 Thread		
1 ½ in	Round	**2XJ91**
1 ¼ in	Flat	**2XJ78**
1 ½ in	Flat	**2XJ79**
2 ½ in	Round	**2XJ92**
2 in	Flat	**2XJ80**

Type S

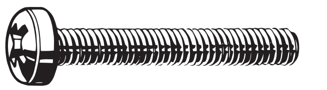
Type P

Quarter-Turn

Wing

Spade Head Screws

Length	Head	Material	Item No.	Pkg. Qty.
6-32 Thread				
⅜"	Type S	Steel	**4FAC7**	25
½"	Type P	Steel	**4EZV3**	25
¾"	Type P	Steel	**4EZV4**	25
8-32 Thread				
⅜"	Type P	Steel	**4EZV5**	25
½"	Type P	18-8 SS	**4EZR6**	5
	Type P	Steel	**4EZV6**	25
	Type S	18-8 SS	**4EZY8**	5
	Type S	Steel	**4FAC9**	25
¾"	Type P	18-8 SS	**4EZR7**	5
	Type P	Steel	**4EZV7**	25
1"	Type P	18-8 SS	**4EZR8**	5
	Type P	Steel	**4EZV8**	25
10-24 Thread				
⅜"	Type P	Steel	**4EZV9**	25
½"	Type P	Steel	**4EZW1**	25
	Type S	18-8 SS	**4EZZ3**	5
	Type S	Steel	**4FAD4**	25
¾"	Type P	18-8 SS	**4EZT2**	5
	Type P	Steel	**4EZW2**	25
	Type S	18-8 SS	**4EZZ4**	5
	Type S	Steel	**4FAD6**	25
1"	Quarter-Turn	18-8 SS	**2JHN7**	1
	Type P	18-8 SS	**4EZT3**	5
	Type P	Steel	**4EZW3**	25
	Type S	18-8 SS	**4EZZ5**	5
	Type S	Steel	**4FAD8**	25
10-32 Thread				
⅜"	Type P	18-8 SS	**4EZT4**	5
½"	Type P	18-8 SS	**4EZT5**	5
	Type P	Steel	**4EZW4**	25
	Type S	18-8 SS	**4EZZ7**	5
	Type S	Steel	**4FAE1**	25
¾"	Type P	18-8 SS	**4EZT6**	5
	Type P	Steel	**4EZW5**	25
	Type S	18-8 SS	**4EZZ8**	5
	Type S	Steel	**4FAE3**	25
1"	Quarter-Turn	Steel	**5PY92**	1
	Type P	18-8 SS	**4EZT7**	5
	Type P	Steel	**4EZW6**	25
	Type S	18-8 SS	**4EZZ9**	5
	Type S	Steel	**4FAE5**	25
1½"	Type P	Steel	**4EZW7**	25
	Type S	Steel	**4FAE7**	25
¼-20 Thread				
½"	Type P	18-8 SS	**4EZT8**	5
	Type P	Steel	**4EZW8**	25
	Type S	18-8 SS	**4FAA1**	5
	Type S	Steel	**4FAE9**	25
¾"	Type P	18-8 SS	**4EZT9**	5
	Type P	Steel	**4EZW9**	25
	Type S	18-8 SS	**4FAA2**	5
	Type S	Steel	**4FAF2**	25
1"	Type P	18-8 SS	**4EZU1**	5
	Type P	Steel	**4EZX1**	25
	Type S	18-8 SS	**4FAA3**	5
	Type S	Steel	**4FAF3**	25
1¼"	Quarter-Turn	18-8 SS	**2JHP1**	1
	Quarter-Turn	Steel	**5PY94**	1
	Type P	Steel	**4EZX2**	25
	Type S	18-8 SS	**4FAA4**	5
	Type S	Steel	**4FAF4**	25
1½"	Type P	18-8 SS	**4EZU2**	5
	Type P	Steel	**4EZX3**	25
	Type S	18-8 SS	**4FAA5**	5
	Type S	Steel	**4FAF5**	25
1¾"	Quarter-Turn	Steel	**5PY95**	1
2"	Type P	18-8 SS	**4EZU3**	5
	Type P	Steel	**4EZX4**	25
	Type S	Steel	**4FAF6**	25
2½"	Type S	Steel	**4FAF7**	25
5/16-18 Thread				
½"	Type P	Steel	**4EZX5**	25
	Type S	Steel	**4FAF8**	10
¾"	Type P	Steel	**4EZX6**	25
	Type S	18-8 SS	**4FAA6**	1
	Type S	Steel	**4FAF9**	10
	Wing	Iron	**4EZP4**	1
1"	Type P	18-8 SS	**4EZU4**	5
	Type P	Steel	**4EZX7**	5
	Type S	18-8 SS	**4FAA8**	1
	Type S	Steel	**4FAH1**	10
	Wing	Iron	**4EZP6**	1
1¼"	Type P	Steel	**4EZX8**	5
1½"	Quarter-Turn	Steel	**5PY96**	1
	Type P	18-8 SS	**4EZU5**	5
	Type P	Steel	**4EZX9**	5
	Type S	18-8 SS	**4FAC1**	1
	Type S	Steel	**4FAH2**	10
	Wing	Iron	**4EZP8**	1
2"	Type P	18-8 SS	**4EZU6**	1
	Type P	Steel	**4EZY1**	5
	Type S	Steel	**4FAH3**	10
	Wing	Iron	**4EZP9**	1
⅜-16 Thread				
¾"	Type P	Steel	**4EZY2**	5
	Type S	Steel	**4FAH4**	10
	Wing	Iron	**4EZR1**	1
1"	Type P	18-8 SS	**4EZU8**	1
	Type P	Steel	**4EZY3**	5
	Type S	18-8 SS	**4FAC3**	1
	Type S	Steel	**4FAH5**	10
	Wing	Iron	**4EZR2**	1
1¼"	Type P	Steel	**4EZY4**	5
1½"	Quarter-Turn	Steel	**5PY98**	1
	Type P	18-8 SS	**4EZU9**	1
	Type P	Steel	**4EZY5**	5
	Type S	18-8 SS	**4FAC5**	1
	Type S	Steel	**4FAH6**	10
	Wing	Iron	**4EZR3**	1
2"	Type P	18-8 SS	**4EZV1**	1
	Type P	Steel	**4EZY6**	5
	Type S	Steel	**4FAH7**	10
	Wing	Iron	**4EZR4**	1
½-13 Thread				
1¾"	Quarter-Turn	Steel	**5RA10**	1



Metric Cheese Head Machine Screws

- Phillips drive

Meet DIN 7985 standard.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Length	Material	Item No.	Pkg. Qty.
M2-0.40mm Thread			
6 mm	A4 SS	**31JR95**	50
8 mm	A4 SS	**31JR96**	50
10 mm	A4 SS	**31JR97**	50
M2.5-0.45mm Thread			
6 mm	A4 SS	**31JR98**	50
8 mm	A4 SS	**31JR99**	50
10 mm	A4 SS	**31JT01**	50
12 mm	A4 SS	**31JT02**	50
M3-0.50mm Thread			
4 mm	A4 SS	**31JT03**	50
5 mm	A4 SS	**31JT04**	50
6 mm	A4 SS	**31JT05**	50
8 mm	A4 SS	**31JT06**	50
10 mm	A4 SS	**31JT07**	50
12 mm	A4 SS	**31JT08**	50
16 mm	A4 SS	**31JT09**	50
20 mm	A4 SS	**31JT10**	50
M4-0.7mm Thread			
8 mm	A4 SS	**31JT11**	50
12 mm	A4 SS	**31JT12**	50
50 mm	A2 SS	**31KH93**	100
60 mm	A2 SS	**31JR70**	50
M5-0.8mm Thread			
12 mm	A4 SS	**31KJ15**	25
16 mm	A4 SS	**31KJ16**	25
35 mm	A2 SS	**31KH94**	100
45 mm	A2 SS	**31KH95**	50
	Steel	**31KH74**	50
50 mm	A2 SS	**31KH96**	50
	Steel	**31JP78**	50
M6-1.00mm Thread			
40 mm	Steel	**31JP79**	50
45 mm	A2 SS	**31KH97**	50
	Steel	**31JP80**	50
50 mm	A2 SS	**31KH98**	50
M8-1.25mm Thread			
12 mm	Steel	**31KH75**	50
16 mm	A2 SS	**31KH99**	50
35 mm	A2 SS	**31KJ01**	25
	Steel	**31KH76**	25
40 mm	A2 SS	**31KJ02**	25
45 mm	Steel	**31KH77**	25
50 mm	A2 SS	**31KJ03**	25
	Steel	**31KH78**	25
60 mm	A2 SS	**31JR71**	10
	Steel	**31KH79**	10
M10-1.50mm Thread			
25 mm	Steel	**31KH80**	25
30 mm	Steel	**31KH81**	25
50 mm	Steel	**31JP81**	10
60 mm	Steel	**31JP82**	10

Button-Head, Hex Socket Drive

Flat-Head, Hex Socket Drive

18-8 Stainless Steel Architectural Sex Bolts

- Tensile strength: 80,000 psi

Fasten through hollow or solid materials. For applications that require a decorative appearance.

Barrel Length	Barrel Thread Depth	Drive Size	Head Style	Item No.
#10-24 Thread Size, 1/4 in Barrel Dia.				
3/8 in	3/16 in	5/32 in	Flat	**1JYK9**
1/2 in	5/16 in	5/32 in	Button	**1JYJ8**
3/4 in	3/8 in	5/32 in	Button	**1JYJ9**
1 1/4 in	3/8 in	5/32 in	Button	**1JYK2**
1 in	3/8 in	5/32 in	Button	**1JYK1**
#10-24 Thread Size, 5/16 in Barrel Dia.				
1/2 in	5/16 in	1/2 in	Hex	**1JYN2**
3/4 in	3/8 in	1/2 in	Hex	**1JYN3**
1 in	3/8 in	1/2 in	Hex	**1JYN4**
1/4"-20 Thread Size, 3/8 in Barrel Dia.				
1/2 in	3/16 in	7/32 in	Flat	**1JYL5**
	5/16 in	5/8 in	Hex	**1JYN5**
	3/8 in	7/32 in	Button	**1JYK3**
3/4 in	3/8 in	7/32 in	Flat	**1JYL6**
	3/8 in	7/32 in	Button	**1JYK4**
	3/8 in	5/8 in	Hex	**1JYN6**
1 in	3/8 in	5/8 in	Hex	**1JYN7**
	3/8 in	7/32 in	Flat	**1JYL7**
	3/8 in	7/32 in	Button	**1JYK5**

Barrel Length	Barrel Thread Depth	Drive Size	Head Style	Item No.
3/8"-16 Thread Size, 1/2 in Barrel Dia.				
1/2 in	3/16 in	5/16 in	Flat	**1JYL8**
	5/16 in	3/4 in	Hex	**1JYN8**
	3/8 in	5/16 in	Button	**1JYK6**
3/4 in	3/8 in	3/4 in	Hex	**1JYN9**
	3/8 in	5/16 in	Button	**1JYK7**
	3/8 in	5/16 in	Flat	**1JYL9**
1 in	3/8 in	3/4 in	Hex	**1JYP1**
	3/8 in	5/16 in	Button	**1JYK8**
1 1/2 in	3/8 in	5/16 in	Button	**20X885**
1 in	1/2 in	5/16 in	Flat	**1JYN1**
2 3/4 in	1/2 in	5/16 in	Flat	**20X919**
1/2"-13 Thread Size, 5/8 in Barrel Dia.				
1/4 in	1/4 in	3/8 in	Flat	**20X920**
1 in	5/8 in	3/8 in	Button	**20X892**
1 1/4 in	3/4 in	3/8 in	Flat	**20X923**
5/8"-11 Thread Size, 3/4 in Barrel Dia.				
1 in	3/4 in	3/8 in	Button	**20X901**
2 in	3/4 in	3/8 in	Button	**20X904**
5/8"-11 Thread Size, 7/8 in Barrel Dia.				
3 in	3/4 in	1/2 in	Button	**20X914**

18-8 Stainless Steel 1-Way Partition Bolts with Shoulder Screws

- Tensile strength: 80,000 psi

Standard replacement hardware for bathroom stall partitions.

Barrel Length	Barrel Thread Depth	Grip Range	Screw Thread Length	Screw Shoulder Length	Screw Head Height	Item No.	Pkg. Qty.
#10-24 Thread Size, 1/4 in Barrel Dia.							
3/8 in	1/4 in	1/2 in	1/4 in	1/8 in	0.1094 in	**5MB83**	10
1/2 in	1/2 in	3/4 in	1/2 in	1/4 in	0.1094 in	**5MB84**	10
3/4 in	1/2 in	1 in	1/2 in	1/4 in	0.1094 in	**5MB85**	10
1 in	1/2 in	1 1/4 in	1/2 in	1/4 in	0.1094 in	**5MB86**	10

Binding Posts with Slotted Screws

- Tensile strength: 80,000 psi (18-8 stainless steel); 34,800 psi (aluminum)
- Rockwell hardness: B85 to B95 (18-8 stainless steel); B38 (aluminum)

Note: Black anodized, brass, and black or white plastic binding posts with slotted screws are also available; on Grainger.com®, search for "plastic binding posts with slotted screws."

Barrel Length	Barrel Thread Depth	Screw Thread Length	Item No.
#8-32 Thread Size, 13/64 in Barrel Dia.			
Aluminum			
1/8 in	1/8 in	3/16 in	**5MA53** *
3/16 in	3/16 in	3/16 in	**5MA54** *
1/4 in	3/16 in	3/16 in	**5MA55**
3/8 in	1/4 in	1/4 in	**5MA56**
1/2 in	3/8 in	1/4 in	**5MA57**
5/8 in	3/8 in	1/4 in	**5MA58**
3/4 in	3/8 in	1/4 in	**5MA59**
7/8 in	3/8 in	1/4 in	**5MA60**
1 in	3/8 in	1/4 in	**5MA61**
1 1/4 in	3/8 in	1/4 in	**5MA62**
1 1/2 in	3/8 in	1/4 in	**5MA63**
1 3/4 in	3/8 in	1/4 in	**5MA64**
2 in	3/8 in	1/4 in	**5MA65**
2 1/4 in	3/8 in	1/4 in	**5MA66**
2 1/2 in	3/8 in	1/4 in	**5MA67**
2 3/4 in	3/8 in	1/4 in	**5MA68**
3 in	3/8 in	1/4 in	**5MA69**
3 1/2 in	3/8 in	1/4 in	**5MA70**
4 in	3/8 in	1/4 in	**5MA71**
4 1/2 in	3/8 in	1/4 in	**5MA72**
5 in	3/8 in	1/4 in	**5MA73**
6 in	3/8 in	1/4 in	**5MA74**

**Fully threaded.*

Barrel Length	Barrel Thread Depth	Screw Thread Length	Item No.
18-8 Stainless Steel			
1/8 in	1/8 in	3/16 in	**5MA84** *
3/16 in	3/16 in	3/16 in	**5MA85** *
1/4 in	1/4 in	1/4 in	**5MA86**
3/8 in	1/4 in	3/8 in	**5MA87**
1/2 in	5/16 in	3/8 in	**5MA88**
5/8 in	3/8 in	3/8 in	**5MA89**
3/4 in	3/8 in	3/8 in	**5MA90**
1 in	3/8 in	3/8 in	**5MA91**
1 1/4 in	3/8 in	3/8 in	**5MA92**
1 1/2 in	3/8 in	3/8 in	**5MA93**
1 3/4 in	3/8 in	3/8 in	**5MA94**

Truss Head Architectural Sex Bolts

Feature unslotted truss heads and include an 82° Phillips flat head screw.

Barrel Length	Barrel Thread Depth	Screw Thread Length	Finish	Item No.
Steel				
1/4"-20 Thread Size, 3/8 in Barrel Dia.				
1 9/16 in	1 in	1 1/2 in	Chrome	**5MB80**
1 9/16 in	1 in	1 in	Zinc	**5MB82**
1 9/16 in	1 in	1 1/2 in	Brass	**5MB81**
316 Stainless Steel				
#8-32 Thread Size, 1/4 in Barrel Dia.				
1 3/16 in	5/8 in	3/4 in	—	**2JGR3**
1 9/16 in	5/8 in	3/4 in	—	**2JGR4**
2 in	5/8 in	3/4 in	—	**2JGR5**
3 in	5/8 in	3/4 in	—	**2JGR6**
#10-32 Thread Size, 5/16 in Barrel Dia.				
1 3/16 in	3/4 in	1 in	—	**2JGR7**
1 9/16 in	3/4 in	1 in	—	**2JGR8**
2 in	3/4 in	1 in	—	**2JGR9**
1/4"-20 Thread Size, 3/8 in Barrel Dia.				
3/4 in	1/2 in	1/2 in	—	**2JGT2**
1 in	5/8 in	1/2 in	—	**2JGT3**
1 3/16 in	3/4 in	1 1/2 in	—	**2JGT4**
1 9/16 in	3/4 in	1 1/2 in	—	**2JGT5**
2 1/16 in	3/4 in	1 1/2 in	—	**2JGT6**
3 in	3/4 in	1 1/2 in	—	**2JGT7**

Barrel Length	Barrel Thread Depth	Screw Thread Length	Finish	Item No.
18-8 Stainless Steel				
#8-32 Thread Size, 1/4 in Barrel Dia.				
1 3/16 in	5/8 in	7/8 in	Plain	**5MB22**
1 9/16 in	5/8 in	7/8 in	Plain	**5MB23**
2 in	5/8 in	7/8 in	Plain	**5MB24**
#10-32 Thread Size, 5/16 in Barrel Dia.				
1 3/16 in	3/4 in	1 in	Plain	**5MB26**
1 9/16 in	3/4 in	1 in	Plain	**5MB27**
2 in	3/4 in	1 in	Plain	**5MB28**
3 in	3/4 in	1 in	Plain	**5MB29**
#12-24 Thread Size, 5/16 in Barrel Dia.				
1 3/16 in	3/4 in	1 in	Plain	**5MB30**
1 9/16 in	3/4 in	1 in	Plain	**5MB31**
1/4"-20 Thread Size, 3/8 in Barrel Dia.				
1 9/16 in	3/4 in	1 in	Plain	**5MB33**
2 1/16 in	3/4 in	1 in	Plain	**5MB34**
3 in	3/4 in	1 1/2 in	Plain	**5MB35**
5/16"-18 Thread Size, 1/2 in Barrel Dia.				
2 1/16 in	3/4 in	1 1/2 in	Plain	**5MB36**
3 in	3/4 in	1 1/2 in	Plain	**5MB37**

Barrel Screws and Bolts

- Truss head
- Tensile strength: 80,000 psi (18-8 stainless steel); 75,000 psi (316 stainless steel); 60,000 psi (zinc-plated steel)

Note: Slotted barrel bolts and screws are available on Grainger®.com; search for "slotted barrel bolts."

Combination Drive Barrel Bolt

6-Lobe with Pin Drive Barrel Bolt

Combination Drive Screw

6-Lobe with Pin Drive Screw

Thread Size	Thread Length	Drive Size	Item No.	Pkg. Qty.
Binding Barrel Bolt Screws				
18-8 Stainless Steel, Combination Drive				
10-24	5/16 in	—	**5MA37**	5
1/4-20	5/16 in	—	**5MA36**	5
18-8 Stainless Steel, 6-Lobe with Pin Drive				
10-24	1/4 in	T20	**5MA38**	1
	1/2 in	T20	**5MA39**	1
	1 in	T20	**5MA40**	1
1/4-20	1/4 in	T27	**5MA41**	1
	3/8 in	T27	**5MA42**	1
	1/2 in	T27	**5MA43**	1
316 Stainless Steel, Combination Drive				
6-32	5/16 in	—	**2JGL3**	5
8-32	5/16 in	—	**2JGL4**	5
10-24	5/16 in	—	**2JGL5**	5
1/4-20	5/16 in	—	**2JGL6**	5
5/16-18	5/16 in	—	**2JGL7**	5
Steel, Zinc Plated, Combination Drive				
10-24	5/16 in	—	**5MA34**	25
1/4-20	5/16 in	—	**5MA35**	25

Thread Size	Barrel Dia.	Barrel Length	Barrel Thread Depth	Item No.	Pkg. Qty.
Barrel Bolts					
18-8 Stainless Steel, Combination Drive					
#10-24	1/4 in	3/8 in	5/16 in	**5LY98**	5
		1/2 in	3/8 in	**5LY99**	5
		5/8 in	3/8 in	**5MA10**	5
		3/4 in	3/8 in	**5MA11**	5
		1 in	3/8 in	**5MA12**	5
		1 1/4 in	3/8 in	**5MA13**	5
		1 1/2 in	3/8 in	**5MA14**	5
		2 in	3/8 in	**5MA15**	5
1/4"-20	5/16 in	3/8 in	19/64 in	**5MA16**	5
		1/2 in	3/8 in	**5MA17**	5
		5/8 in	3/8 in	**5MA18**	5
		3/4 in	3/8 in	**5MA19**	5
		7/8 in	3/8 in	**5MA20**	5
		1 in	3/8 in	**5MA21**	5
18-8 Stainless Steel, 6-Lobe with Pin Drive (T20)					
#10-24	1/4 in	3/8 in	1/4 in	**5MA22**	1
		1/2 in	1/4 in	**5MA23**	1
		5/8 in	1/4 in	**5MA24**	1
		3/4 in	3/8 in	**5MA25**	1
		1 in	3/8 in	**5MA26**	1
		1 1/4 in	3/8 in	**5MA27**	1
		1 1/2 in	3/8 in	**5MA28**	1

** Fully Threaded.*

Thread Size	Barrel Dia.	Barrel Length	Barrel Thread Depth	Item No.	Pkg. Qty.
18-8 Stainless Steel, 6-Lobe with Pin Drive (T27)					
1/4"-20	5/16 in	1/2 in	1/4 in	**5MA29**	1
		3/4 in	3/8 in	**5MA30**	1
		1 in	3/8 in	**5MA31**	1
316 Stainless Steel, Combination Drive					
#6-32	3/16 in	3/8 in	19/64 in	**2JGL8**	5
		1/2 in	3/8 in	**2JGL9**	5
		5/8 in	3/8 in	**2JGN1**	5
#8-32	13/64 in	1/4 in	1/4 in	**2JGN2** *	5
		3/8 in	19/64 in	**2JGN3**	5
		1/2 in	3/8 in	**2JGN4**	5
		5/8 in	3/8 in	**2JGN5**	5
		3/4 in	3/8 in	**2JGN6**	5
		1 in	3/8 in	**2JGN7**	5
#10-24	1/4 in	1/4 in	1/4 in	**2JGN8** *	5
		3/8 in	5/16 in	**2JGN9**	5
		1/2 in	3/8 in	**2JGP1**	5
		3/4 in	3/8 in	**2JGP2**	5
		1 in	3/8 in	**2JGP3**	5
1/4"-20	5/16 in	3/8 in	19/64 in	**2JGP4**	5
		1/2 in	3/8 in	**2JGP5**	5
		3/4 in	3/8 in	**2JGP6**	5
		1 in	3/8 in	**2JGP7**	5
5/16"-18	3/8 in	3/8 in	3/8 in	**2JGP8**	5
		1/2 in	3/8 in	**2JGP9**	5
		3/4 in	1/2 in	**2JGR1**	5
		1 in	1/2 in	**2JGR2**	5

Pin-in Hex

Spanner Drive

One-Way Drive

Tri-Groove Drive

Tamper-Resistant Machine Screws

For use in permanent applications.

Dia./Thread Size	L	Driver Size	Material	Item No.	Pkg. Qty.
Button Head Pin-In Hex Drive					
#6-32	⅜ in	⅛ in	18-8 SS Plain	**6LE66**	25
	⅜ in	⅛ in	Steel Black	**6LE99**	50
	½ in	⅛ in	18-8 SS Plain	**6LE67**	25
	½ in	⅛ in	Steel Black	**6LU10**	25
	¾ in	⅛ in	18-8 SS Plain	**6LE68**	25
#8-32	⅜ in	5/32 in	Steel Black	**6LU11**	50
	½ in	5/32 in	18-8 SS Plain	**6LE69**	25
	½ in	5/32 in	Steel Black	**6LU12**	50
	¾ in	5/32 in	18-8 SS Plain	**6LE70**	25
	¾ in	5/32 in	Steel Black	**6LU13**	50
	1 in	5/32 in	18-8 SS Plain	**6LE71**	25
	1 ½ in	5/32 in	18-8 SS Plain	**6LE72**	25
	1 in	5/32 in	Steel Black	**6LU14**	50
#10-24	¼ in	5/32 in	18-8 SS Plain	**6LE73**	25
	⅜ in	5/32 in	18-8 SS Plain	**6LE74**	25
	⅜ in	5/32 in	Steel Black	**6LU15**	50
	½ in	5/32 in	18-8 SS Plain	**6LE75**	25
	½ in	5/32 in	Steel Black	**6LU16**	50
	⅝ in	5/32 in	Steel Black	**6LU17**	50
	¾ in	5/32 in	18-8 SS Plain	**6LE76**	25
	¾ in	5/32 in	Steel Black	**6LU18**	25
	1 in	5/32 in	18-8 SS Plain	**6LE77**	25
	1 in	5/32 in	Steel Black	**6LU19**	25
#10-32	¼ in	5/32 in	18-8 SS Plain	**6LE78**	25
	⅜ in	5/32 in	18-8 SS Plain	**6LE79**	25
	½ in	5/32 in	18-8 SS Plain	**6LE80**	25
	½ in	5/32 in	Steel Black	**6LU20**	50
	¾ in	5/32 in	18-8 SS Plain	**6LE81**	25
	¾ in	5/32 in	Steel Black	**6LU21**	25
	1 in	5/32 in	18-8 SS Plain	**6LE82**	25
	1 in	5/32 in	Steel Black	**6LU22**	25
#12-24	½ in	5/32 in	Steel Black	**6LU23**	25
¼"-20	⅜ in	5/32 in	Steel Black	**6LU24**	25
	½ in	5/32 in	18-8 SS Plain	**6LE83**	25
	½ in	5/32 in	Steel Black	**6LU25**	25
	⅝ in	5/32 in	18-8 SS Plain	**6LE84**	10
	⅝ in	5/32 in	Steel Black	**6LU26**	25
	¾ in	5/32 in	18-8 SS Plain	**6LE85**	10
	¾ in	5/32 in	Steel Black	**6LU27**	25
	1 in	5/32 in	18-8 SS Plain	**6LE86**	10
	1 ¼ in	5/32 in	18-8 SS Plain	**6LE87**	10
	1 ½ in	5/32 in	18-8 SS Plain	**6LE88**	10
	1 in	5/32 in	Steel Black	**6LU28**	25
	1 ½ in	5/32 in	Steel Black	**6LU29**	25
	2 in	5/32 in	18-8 SS Plain	**6LE89**	10
5/16"-18	¾ in	3/16 in	18-8 SS Plain	**6LE90**	10
	¾ in	3/16 in	Steel Black	**6LU30**	10
	1 in	3/16 in	18-8 SS Plain	**6LE91**	10
	1 ¼ in	3/16 in	18-8 SS Plain	**6LE92**	5
	1 ½ in	3/16 in	18-8 SS Plain	**6LE93**	5
	1 in	3/16 in	Steel Black	**6LU31**	10
	2 in	3/16 in	18-8 SS Plain	**6LE94**	5
⅜"-16	¾ in	7/32 in	18-8 SS Plain	**6LE95**	5
	¾ in	7/32 in	Steel Black	**6LU32**	10
	1 in	7/32 in	18-8 SS Plain	**6LE96**	5
	1 ¼ in	7/32 in	18-8 SS Plain	**6LE97**	5
	1 ½ in	7/32 in	18-8 SS Plain	**6LE98**	5
	1 in	7/32 in	Steel Black	**6LU33**	10
Button Head Torx Drive					
#6-32	⅜ in	T10	18-8 SS Plain	**6LE21**	25
	⅜ in	T10	Steel Black	**6LE43**	50
	½ in	T10	18-8 SS Plain	**6LE22**	25
	½ in	T10	Steel Black	**6LE44**	25
	¾ in	T10	18-8 SS Plain	**6LE23**	25
	¾ in	T10	Steel Black	**6LE45**	25
	1 in	T10	18-8 SS Plain	**6LE24**	25
	1 in	T10	Steel Black	**6LE46**	25
#8-32	⅜ in	T15	18-8 SS Plain	**6LE25**	25
	⅜ in	T15	Steel Black	**6LE47**	50
	½ in	T15	18-8 SS Plain	**6LE26**	25
	½ in	T15	Steel Black	**6LE48**	25
	¾ in	T15	18-8 SS Plain	**6LE27**	25
	¾ in	T15	Steel Black	**6LE49**	25
	1 in	T15	18-8 SS Plain	**6LE28**	25
	1 in	T15	Steel Black	**6LE50**	25
	1 ½ in	T15	Steel Black	**6LE51**	25
#10-24	⅜ in	T25	18-8 SS Plain	**5JE62**	50
	½ in	T25	18-8 SS Plain	**6LE29**	25
	½ in	T25	Steel Black	**6LE52**	50
	½ in	T25	18-8 SS Plain	**5JE63**	50
	⅝ in	T25	18-8 SS Plain	**5JE64**	50
	¾ in	T25	18-8 SS Plain	**6LE30**	25
	¾ in	T25	Steel Black	**6LE53**	25
	¾ in	T25	18-8 SS Plain	**5JE65**	50
	1 in	T25	18-8 SS Plain	**6LE31**	25
	1 ¼ in	T25	18-8 SS Plain	**6LE32**	10
	1 in	T25	Steel Black	**6LE54**	25
	1 ½ in	T25	Steel Black	**6LE55**	25
	1 in	T25	18-8 SS Plain	**5JE66**	50
	1 ¼ in	T25	18-8 SS Plain	**5JE67**	50
	1 ½ in	T25	18-8 SS Plain	**5JE68**	50
#10-32	⅜ in	T25	18-8 SS Plain	**6LE33**	25
	⅜ in	T25	Steel Black	**6LE56**	25
	½ in	T25	18-8 SS Plain	**6LE34**	25
	½ in	T25	Steel Black	**6LE57**	25
	¾ in	T25	18-8 SS Plain	**6LE35**	25
	¾ in	T25	Steel Black	**6LE58**	25
	1 in	T25	18-8 SS Plain	**6LE36**	25
	1 in	T25	Steel Black	**6LE59**	25
	1 ½ in	T25	Steel Black	**6LE60**	25
¼"-20	⅜ in	T27	Steel Black	**6LE61**	25
	½ in	T27	18-8 SS Plain	**6LE37**	10
	½ in	T27	Steel Black	**6LE62**	25
	½ in	T27	18-8 SS Plain	**5JE69**	25
	¾ in	T27	18-8 SS Plain	**6LE38**	10
	¾ in	T27	Steel Black	**6LE63**	25
	¾ in	T27	18-8 SS Plain	**5JE70**	25
	1 in	T27	18-8 SS Plain	**6LE39**	10
	1 ¼ in	T27	18-8 SS Plain	**6LE40**	10
	1 ½ in	T27	18-8 SS Plain	**6LE41**	10
	1 in	T27	Steel Black	**6LE64**	25
	1 ½ in	T27	Steel Black	**6LE65**	25
	1 in	T27	18-8 SS Plain	**5JE71**	25
	1 ¼ in	T27	18-8 SS Plain	**5JE72**	25
	1 ½ in	T27	18-8 SS Plain	**5JE73**	25
	2 in	T27	18-8 SS Plain	**6LE42**	10
	2 in	T27	18-8 SS Plain	**5JE74**	25
Flat Head Spanner Drive					
#4-40	¼ in	#4	18-8 SS Plain	**5JY28**	50
#6-32	⅜ in	#6	18-8 SS Plain	**5JY31**	50
	½ in	#6	18-8 SS Plain	**5JY32**	50
	¾ in	#6	18-8 SS Plain	**5JY33**	50
	1 in	#6	18-8 SS Plain	**5JY34**	50
	1 ½ in	#6	18-8 SS Plain	**5JY35**	50
	2 in	#6	18-8 SS Plain	**5JY36**	25
#8-32	⅜ in	#8	18-8 SS Plain	**5JY37**	50
	½ in	#8	18-8 SS Plain	**5JY38**	25
	¾ in	#8	18-8 SS Plain	**5JY39**	25
	1 ¼ in	#8	18-8 SS Plain	**5JY41**	25
	1 ½ in	#8	18-8 SS Plain	**5JY42**	25
	1 in	#8	18-8 SS Plain	**5JY40**	25
	2 in	#8	18-8 SS Plain	**5JY43**	25
#10-24	½ in	#10	18-8 SS Plain	**5JY44**	25
	¾ in	#10	18-8 SS Plain	**5JY45**	25
	1 in	#10	18-8 SS Plain	**5JY46**	25
	1 ¼ in	#10	18-8 SS Plain	**5JY47**	50
	1 ½ in	#10	18-8 SS Plain	**5JY48**	50
	2 in	#10	18-8 SS Plain	**5JY49**	25
#10-32	½ in	#10	18-8 SS Plain	**5JY50**	25
	¾ in	#10	18-8 SS Plain	**5JY51**	25
	1 ¼ in	#10	18-8 SS Plain	**5JY53**	25
	1 ½ in	#10	18-8 SS Plain	**5JY54**	25
	1 in	#10	18-8 SS Plain	**5JY52**	25
	2 ½ in	#10	18-8 SS Plain	**5JY56**	25
	2 in	#10	18-8 SS Plain	**5JY55**	25
#12-24	½ in	#12	18-8 SS Plain	**5JY57**	25
	¾ in	#12	18-8 SS Plain	**5JY58**	25
¼"-20	½ in	#14	18-8 SS Plain	**5JY59**	25
	¾ in	#14	18-8 SS Plain	**5JY60**	25
	1 ¼ in	#14	18-8 SS Plain	**5JY62**	25
	1 ½ in	#14	18-8 SS Plain	**5JY63**	25
	1 in	#14	18-8 SS Plain	**5JY61**	25
	2 in	#14	18-8 SS Plain	**5JY64**	25
	2 ½ in	#14	18-8 SS Plain	**5JY65**	25
Flat Head Torx Drive					
#6-32	⅜ in	T15	18-8 SS Plain	**5JE37**	25
	½ in	T10	18-8 SS Plain	**5JE34**	25
	¾ in	T10	18-8 SS Plain	**5JE35**	25
	1 in	T10	18-8 SS Plain	**5JE36**	25
#8-32	⅜ in	T20	18-8 SS Plain	**5JE38**	25
	½ in	T20	18-8 SS Plain	**5JE39**	25
	¾ in	T20	18-8 SS Plain	**5JE40**	25
	1 in	T20	18-8 SS Plain	**5JE41**	25
	1 ¼ in	T20	18-8 SS Plain	**5JE42**	25
	1 ½ in	T20	18-8 SS Plain	**5JE43**	10
#10-24	⅜ in	T25	18-8 SS Plain	**5JE44**	25
	½ in	T25	18-8 SS Plain	**5JE45**	25
	⅝ in	T25	18-8 SS Plain	**5JE46**	25
	¾ in	T25	18-8 SS Plain	**5JE47**	25
	1 in	T25	18-8 SS Plain	**5JE48**	25
	1 ¼ in	T25	18-8 SS Plain	**5JE49**	10
	1 ½ in	T25	18-8 SS Plain	**5JE50**	10
#10-32	⅜ in	T25	18-8 SS Plain	**5JE51**	25
	½ in	T25	18-8 SS Plain	**5JE52**	25
	¾ in	T25	18-8 SS Plain	**5JE53**	25
	1 in	T25	18-8 SS Plain	**5JE54**	25
	1 ¼ in	T25	18-8 SS Plain	**5JE55**	10
	1 ½ in	T25	18-8 SS Plain	**5JE56**	10
¼"-20	¾ in	T30	18-8 SS Plain	**5JE57**	10
	1 in	T30	18-8 SS Plain	**5JE58**	10
	1 ¼ in	T30	18-8 SS Plain	**5JE59**	10
	1 ½ in	T30	18-8 SS Plain	**5JE60**	10
	2 in	T30	18-8 SS Plain	**5JE61**	10
Pan Head Spanner Drive					
#4-40	⅜ in	#4	18-8 SS Plain	**5JB79**	50
	½ in	#4	18-8 SS Plain	**5JB81**	50
#6-32	¼ in	#6	18-8 SS Plain	**5JB83**	50
	⅜ in	#6	18-8 SS Plain	**5JB85**	50
	½ in	#6	18-8 SS Plain	**5JB87**	50
	¾ in	#6	18-8 SS Plain	**5JB89**	50
	1 in	#6	18-8 SS Plain	**5JU58**	50
#8-32	⅜ in	#8	18-8 SS Plain	**5JU59**	50
	½ in	#8	18-8 SS Plain	**5JU60**	25
	¾ in	#8	18-8 SS Plain	**5JU61**	25
	1 ¼ in	#8	18-8 SS Plain	**5JU63**	25
	1 in	#8	18-8 SS Plain	**5JU62**	25
	1 ½ in	#8	18-8 SS Plain	**5JU64**	25
#10-24	½ in	#10	18-8 SS Plain	**5JU66**	25
	¾ in	#10	18-8 SS Plain	**5JU67**	25
	1 in	#10	18-8 SS Plain	**5JU68**	25
	1 ½ in	#10	18-8 SS Plain	**5JU69**	25
	2 in	#10	18-8 SS Plain	**5JU70**	25
	4 in	#10	18-8 SS Plain	**5JU71**	25
#10-32	⅜ in	#10	18-8 SS Plain	**5JU72**	25
	½ in	#10	18-8 SS Plain	**5JU73**	25
	¾ in	#10	18-8 SS Plain	**5JU74**	25
	1 ½ in	#10	18-8 SS Plain	**5JU76**	25
	1 in	#10	18-8 SS Plain	**5JU75**	25
	2 in	#10	18-8 SS Plain	**5JU77**	25
	4 in	#10	18-8 SS Plain	**5JU78**	25
#12-24	¾ in	#12	18-8 SS Plain	**5JU79**	25
¼"-20	⅜ in	#14	18-8 SS Plain	**5JU80**	25
	½ in	#14	18-8 SS Plain	**5JU81**	25
	¾ in	#14	18-8 SS Plain	**5JU82**	25
	1 ½ in	#14	18-8 SS Plain	**5JU84**	25
	1 in	#14	18-8 SS Plain	**5JU83**	25
	2 in	#14	18-8 SS Plain	**5JU85**	25
	3 in	#14	18-8 SS Plain	**5JU86**	10
	4 in	#14	18-8 SS Plain	**5JU87**	10
Pan Head Torx Drive					
#2-56	3/16 in	T8	Steel Zinc	**5JA79**	100
	¼ in	T8	Steel Zinc	**5JA80**	100
	5/16 in	T8	Steel Zinc	**5JA81**	100
	⅜ in	T8	Steel Zinc	**5JA82**	100
#4-40	¼ in	T10	Steel Zinc	**5JA83**	100
	5/16 in	T10	Steel Zinc	**5JA84**	100
	⅜ in	T10	Steel Zinc	**5JA85**	100
	½ in	T10	Steel Zinc	**5JA87**	100
#6-32	¼ in	T15	Steel Zinc	**5JA89**	100
	⅜ in	T15	Steel Zinc	**5JA91**	100
	½ in	T15	Steel Zinc	**5JA93**	100
	¾ in	T15	Steel Zinc	**5JA95**	100
#8-32	¼ in	T20	Steel Zinc	**5JA97**	100
	⅜ in	T20	Steel Zinc	**5JA99**	100
	½ in	T20	Steel Zinc	**5JB11**	100
	¾ in	T20	Steel Zinc	**5JB13**	100
#10-24	⅜ in	T25	Steel Zinc	**5JB15**	100
	½ in	T25	Steel Zinc	**5JB17**	100
	¾ in	T25	Steel Zinc	**5JB19**	100
	1 in	T25	Steel Zinc	**5JB21**	100
#10-32	⅜ in	T25	Steel Zinc	**5JB23**	100
	½ in	T25	Steel Zinc	**5JB25**	100
	¾ in	T25	Steel Zinc	**5JB27**	100
	1 in	T25	Steel Zinc	**5JB29**	100
Round Head One-Way Drive					
#6-32	¾ in	#6	18-8 SS Plain	**5JY72**	100
	1 in	#6	Steel Zinc	**5KA10**	100
	1 in	#6	18-8 SS Plain	**5JY73**	100
	1 ½ in	#6	18-8 SS Plain	**5JY74**	100
#8-32	¼ in	#8	18-8 SS Plain	**5JY75**	100
	½ in	#8	Steel Zinc	**5KA11**	100
	½ in	#8	18-8 SS Plain	**5JY77**	100
	¾ in	#8	Steel Zinc	**5KA12**	100
	¾ in	#8	18-8 SS Plain	**5JY78**	100
	1 ½ in	#8	Steel Zinc	**5KA14**	100
	1 ½ in	#10	18-8 SS Plain	**5JY80**	100
	1 in	#8	Steel Zinc	**5KA13**	100
	1 in	#8	18-8 SS Plain	**5JY79**	100
#10-24	½ in	#10	Steel Zinc	**5KA15**	100
	½ in	#10	18-8 SS Plain	**5JY81**	100
	¾ in	#10	18-8 SS Plain	**5JY82**	100
	1 ½ in	#10	Steel Zinc	**5KA18**	100
	1 ¼ in	#10	18-8 SS Plain	**5JY84**	50
	1 in	#10	18-8 SS Plain	**5JY83**	50
	1 ½ in	#10	18-8 SS Plain	**5JY85**	25
#10-32	½ in	#10	Steel Zinc	**5KA19**	100
	½ in	#10	18-8 SS Plain	**5JY86**	100
	¾ in	#10	18-8 SS Plain	**5JY88**	50
	1 ½ in	#10	18-8 SS Plain	**5JY91**	25
	1 ½ in	#10	Steel Zinc	**5KA22**	100
	1 in	#10	18-8 SS Plain	**5JY89**	50
	1 ¼ in	#10	18-8 SS Plain	**5JY90**	25
¼"-20	½ in	#14	Steel Zinc	**5KA23**	100
	½ in	#14	18-8 SS Plain	**5JY92**	25
	¾ in	#14	18-8 SS Plain	**5JY93**	25
	1 in	#14	Steel Zinc	**5KA25**	100
	1 ½ in	#14	Steel Zinc	**5KA26**	50
	1 ½ in	#14	18-8 SS Plain	**5JY95**	25
	1 in	#14	18-8 SS Plain	**5JY94**	25
	2 in	#14	18-8 SS Plain	**5JY96**	25
Round Head Tri-Groove Drive					
#8-32	⅜ in	#6	Steel Zinc	**5KA51**	100
	1 in	#6	Steel Zinc	**5KA54**	50
#10-24	½ in	#10	Steel Zinc	**5KA57**	50
#10-32	½ in	#10	Steel Zinc	**5KA61**	50
¼"-20	½ in	#10	Steel Zinc	**5KA65**	50
	¾ in	#10	Steel Zinc	**5KA66**	50
	1 ½ in	#10	Steel Zinc	**5KA68**	25
	1 in	#10	Steel Zinc	**5KA67**	25
	2 ½ in	#10	Steel Zinc	**5KA70**	10
Truss Head Spanner Drive					
#8-32	¾ in	#8	18-8 SS Plain	**5KA28**	10
	1 in	#8	18-8 SS Plain	**5KA29**	10
	1 ½ in	#8	18-8 SS Plain	**5KA31**	10
	2 ½ in	#8	18-8 SS Plain	**5KA32**	10
#10-24	½ in	#10	18-8 SS Plain	**5KA33**	10
#10-32	¾ in	#10	18-8 SS Plain	**5KA35**	10
¼"-20	1 in	#14	18-8 SS Plain	**5KA37**	10
5/16"-18	¾ in	#14	18-8 SS Plain	**5KA38**	10
	1 ½ in	#14	18-8 SS Plain	**5KA41**	10
	1 in	#14	18-8 SS Plain	**5KA39**	10
	1 ¼ in	#14	18-8 SS Plain	**5KA40**	10
	2 in	#14	18-8 SS Plain	**5KA42**	10
⅜"-16	1 in	#14	18-8 SS Plain	**5KA45**	10
	1 ½ in	#14	18-8 SS Plain	**5KA47**	10
	2 in	#14	18-8 SS Plain	**5KA48**	10
	2 ½ in	#14	18-8 SS Plain	**5KA49**	10
	3 in	#14	18-8 SS Plain	**5KA50**	10

1-Way Drive Screw Removal Tool

Nickel-plated 1018 steel shaft. 7" overall length.

For Screw Size	Shank Length	Item No.
#6 and #8	3 ½ in	**1ZLA3**
#8 and #10	3 ¾ in	**1ZLA6**
#12 and #14	4 in	**1ZLA8**

One-Way Drive

Spanner Drive, Flat Head

Spanner Drive, Pan Head

Pin-In Hex Drive, Button Head

Pin-In Hex Drive, Flat Head

Pin-In Torx Drive, Button Head

Pin-In Torx Drive, Flat Head

Pin-In Torx Drive, Self-Drilling, Flat Head

Pin-In Torx Drive, Self-Drilling, Pan Head

Tamper-Resistant Sheet Metal Screws

Meet ANSI/ASME B18.6 standards.

Size	Length	Driver Size	Item No.	Pkg. Qty.
One-Way Drive, Round Head				
18-8 Stainless Steel				
#6	½ in	#6	**5JA34**	100
	¾ in	#6	**5JA35**	100
	1 in	#6	**5JA36**	100
	1 ¼ in	#6	**5JA37**	50
#8	½ in	#8	**5JA38**	50
	¾ in	#8	**5JA39**	50
	1 in	#8	**5JA40**	50
	1 ¼ in	#8	**5JA41**	50
	1 ½ in	#8	**5JA42**	50
#10	½ in	#10	**5JA43**	50
	¾ in	#10	**5JA44**	50
	1 in	#10	**5JA45**	50
	1 ½ in	#10	**5JA46**	50
	2 in	#10	**5JA47**	25
#12	½ in	#12	**5JA48**	50
	¾ in	#12	**5JA49**	50
	1 in	#12	**5JA50**	50
	1 ¼ in	#12	**5JA51**	25
	1 ½ in	#12	**5JA52**	25
	2 in	#12	**5JA53**	25
#14	½ in	#14	**5JA54**	50
	¾ in	#14	**5JA55**	25
	1 ¼ in	#14	**5JA57**	25
	1 ½ in	#14	**5JA58**	25
	2 in	#14	**5JA59**	25
	3 in	#14	**5JA60**	10
Steel, Zinc-Plated				
#6	⅜ in	#6	**5JA61**	100
	½ in	#6	**5JA62**	100
	¾ in	#6	**5JA63**	100
	1 in	#6	**5JA64**	100
#8	⅜ in	#8	**5JA65**	100
	½ in	#8	**5JA66**	100
	¾ in	#8	**5JA67**	100
	1 in	#8	**5JA68**	100
	1 ½ in	#8	**5JA69**	50
#10	½ in	#10	**5JA70**	100
	¾ in	#10	**5JA71**	100
	1 in	#10	**5JA72**	100
	1 ½ in	#10	**5JA73**	100
#14	½ in	#14	**5JA74**	50
	¾ in	#14	**5JA75**	100
	1 in	#14	**5JA76**	100
	1 ½ in	#14	**5JA77**	50
	2 in	#14	**5JA78**	25
Spanner Drive, Flat Head				
18-8 Stainless Steel				
#6	½ in	#6	**5KY11**	25
	¾ in	#6	**5KY12**	25
	1 in	#6	**5KY13**	25
#8	½ in	#6	**5KY14**	25
	¾ in	#8	**5KY15**	25
	1 in	#8	**5KY16**	25
	1 ¼ in	#8	**5KY17**	25
	1 ½ in	#8	**5KY18**	25
#10	½ in	#10	**5KY19**	25
	¾ in	#10	**5KY20**	25
	1 in	#10	**5KY21**	25
	1 ½ in	#10	**5KY22**	25
	2 in	#10	**5KY23**	25
#12	1 in	#12	**5KY24**	25
	1 ¼ in	#12	**5KY25**	25
	1 ½ in	#12	**5KY26**	25
	2 in	#12	**5KY27**	10
Spanner Drive, Pan Head				
18-8 Stainless Steel				
#6	½ in	#6	**5HY93**	25
	⅝ in	#6	**5HY94**	25
	¾ in	#6	**5HY95**	25
	1 in	#6	**5HY96**	25
	1 ½ in	#6	**5HY97**	25
#8	⅜ in	#8	**5HY98**	25
	½ in	#8	**5HY99**	25
	⅝ in	#8	**5JA10**	25
	¾ in	#8	**5JA11**	25
	1 in	#8	**5JA12**	25
	1 ½ in	#8	**5JA13**	25
	2 in	#8	**5JA14**	25
#10	½ in	#10	**5JA15**	25
	⅝ in	#10	**5JA16**	25
	¾ in	#10	**5JA17**	25
	1 in	#10	**5JA18**	25
	1 ¼ in	#10	**5JA19**	25
	1 ½ in	#10	**5JA20**	25
	2 in	#10	**5JA21**	10
#12	1 in	#12	**5JA22**	25
	1 ½ in	#12	**5JA23**	25
	2 in	#12	**5JA24**	25
#14	¾ in	#14	**5JA25**	25
	1 in	#14	**5JA26**	25
	2 in	#14	**5JA27**	25
Pin-In Hex Drive, Button Head				
18-8 Stainless Steel				
#6	½ in	⅛ in	**5KE94**	25
	¾ in	⅛ in	**5KE96**	25
	1 in	⅛ in	**5KE98**	25
#8	½ in	5/32 in	**5KU10**	25
	⅝ in	5/32 in	**5KU12**	25
	¾ in	5/32 in	**5KU14**	25
	1 in	5/32 in	**5KU16**	25
	1 ¼ in	5/32 in	**5KU18**	25
	1 ½ in	5/32 in	**5KU20**	25
#10	½ in	5/32 in	**5KU22**	25
	¾ in	5/32 in	**5KU24**	25
	1 in	5/32 in	**5KU26**	25
	1 ¼ in	5/32 in	**5KU28**	25
	1 ½ in	5/32 in	**5KU30**	25
	2 in	5/32 in	**5KU32**	25
#14	¾ in	5/32 in	**5KU34**	25
	1 in	5/32 in	**5KU36**	25
	1 ¼ in	5/32 in	**5KU38**	25
	1 ½ in	5/32 in	**5KU40**	25
Steel, Black Oxide Finish				
#6	½ in	⅛ in	**5KU42**	50
	¾ in	⅛ in	**5KU44**	50
	1 in	⅛ in	**5KU46**	50
#8	½ in	5/32 in	**5KU48**	50
	⅝ in	5/32 in	**5KU50**	25
	¾ in	5/32 in	**5KU52**	25
	1 in	5/32 in	**5KU54**	25
	1 ¼ in	5/32 in	**5KU56**	25
	1 ½ in	5/32 in	**5KU57**	25
#10	½ in	5/32 in	**5KU58**	50
	¾ in	5/32 in	**5KU59**	50
	1 in	5/32 in	**5KU60**	25
	1 ¼ in	5/32 in	**5KU61**	25
	1 ½ in	5/32 in	**5KU62**	25
	2 in	5/32 in	**5KU63**	25
#14	¾ in	5/32 in	**5KU64**	25
	1 in	5/32 in	**5KU65**	25
	1 ¼ in	5/32 in	**5KU66**	25
	1 ½ in	5/32 in	**5KU67**	25
Pin-In Hex Drive, Flat Head				
18-8 Stainless Steel				
#6	½ in	⅛ in	**5KY28**	25
	¾ in	⅛ in	**5KY29**	25
	1 in	⅛ in	**5KY30**	25
#8	½ in	5/32 in	**5KY31**	25
	¾ in	5/32 in	**5KY32**	25
	1 in	5/32 in	**5KY33**	25
#10	½ in	5/32 in	**5KY34**	25
	¾ in	5/32 in	**5KY35**	25
	1 in	5/32 in	**5KY36**	25
	1 ¼ in	5/32 in	**5KY37**	25
	1 ½ in	5/32 in	**5KY38**	25
#14	¾ in	5/32 in	**5KY39**	25
	1 in	5/32 in	**5KY40**	25
	1 ¼ in	5/32 in	**5KY41**	25
	1 ½ in	5/32 in	**5KY42**	25
Pin-In Torx Drive, Button Head				
18-8 Stainless Steel				
#6	½ in	T10	**5KU68**	25
	¾ in	T10	**5KU69**	25
	1 in	T10	**5KU70**	25
	1 ½ in	T10	**5KU71**	25
#8	½ in	T15	**5KU72**	25
	¾ in	T15	**5KU73**	25
	1 in	T15	**5KU74**	25
	1 ¼ in	T15	**5KU75**	25
	1 ½ in	T15	**5KU76**	25
#10	½ in	T25	**5KU77**	25
	¾ in	T25	**5KU78**	25
	1 in	T25	**5KU79**	25
	1 ¼ in	T25	**5KU80**	25
	1 ½ in	T25	**5KU81**	10
#14	½ in	T27	**5KU82**	25
	¾ in	T27	**5KU83**	25
	1 in	T27	**5KU84**	10
	1 ¼ in	T27	**5KU85**	10
	1 ½ in	T27	**5KU86**	10
Steel, Black Oxide Finish				
#6	½ in	T10	**5KU87**	25
	¾ in	T10	**5KU88**	25
	1 in	T10	**5KU89**	25
#8	½ in	T15	**5KU90**	25
	¾ in	T15	**5KU91**	25
	1 in	T15	**5KU92**	25
#10	½ in	T25	**5KU93**	25
	¾ in	T25	**5KU94**	25
	1 in	T25	**5KU95**	25
	1 ¼ in	T25	**5KU96**	25
	1 ½ in	T25	**5KU97**	25
#14	½ in	T27	**5KU98**	25
	¾ in	T27	**5KU99**	25
	1 in	T27	**5KY10**	25
Pin-In Torx Drive, Flat Head				
18-8 Stainless Steel				
#6	½ in	T15	**5KY43**	25
	¾ in	T15	**5KY44**	25
	1 in	T15	**5KY45**	25
#8	½ in	T20	**5KY46**	25
	¾ in	T20	**5KY47**	25
	1 in	T20	**5KY48**	25
	1 ¼ in	T20	**5KY49**	25
#10	½ in	T25	**5KY50**	25
	¾ in	T25	**5KY51**	25
	1 in	T25	**5KY52**	25
	1 ½ in	T25	**5KY53**	10
#14	¾ in	T30	**5KY54**	10
	1 in	T30	**5KY55**	10
	1 ¼ in	T30	**5KY56**	10
Pin-In Torx, Self-Drilling, Flat Head				
Steel, Zinc Chromate Finish				
#8-18	1 ¼ in	T15	**5JU54**	50
#10-16	¾ in	T25	**5JU55**	50
	1 ½ in	T20	**5JU56**	50
	2 in	T20	**5JU57**	50
Pin-In Torx, Self-Drilling, Pan Head				
410 Stainless Steel				
#8-18	½ in	T20	**5JU45**	25
	¾ in	T20	**5JU46**	25
	1 in	T20	**5JU47**	25
	1 ¼ in	T20	**5JU48**	10
#10-16	½ in	T25	**5JU49**	25
	¾ in	T25	**5JU50**	25
	1 in	T25	**5JU51**	25
	1 ¼ in	T25	**5JU52**	10
	1 ½ in	T25	**5JU53**	10
Torxplus Drive, Pan Head				
18-8 Stainless Steel				
#0-42	⅜ in	IP5	**5JE75**	50
#2-28	¼ in	IP7	**5JE76**	50
	⅜ in	IP7	**5JE77**	50
#4-20	¼ in	IP10	**5JE80**	50
	⅜ in	IP10	**5JE81**	50
	¾ in	IP10	**5JE83**	50
#6-19	¼ in	IP15	**5JE84**	50
	⅜ in	IP15	**5JE85**	50
	½ in	IP15	**5JE86**	50
Case Hardened Steel				
#0-42	3/16 in	IP5	**5JE90**	50
	⅜ in	IP5	**5JE92**	50
#4-20	¼ in	IP10	**5JE96**	100
	¾ in	IP10	**5JE99**	100
#8-16	¼ in	IP20	**5JU13**	100
	½ in	IP20	**5JU14**	100
	¾ in	IP20	**5JU15**	100
	1 in	IP20	**5JU16**	100
#10-14	1 in	IP25	**5JU19**	50
	1 ¼ in	IP25	**5JU20**	50
¼"-10	¾ in	IP30	**5JU23**	50
	1 in	IP30	**5JU24**	50
	1 ¼ in	IP30	**5JU25**	50

Self-Tapping Sheet Metal Screws

- Hardened steel
- Hex Washer Head have a ¼" driver size

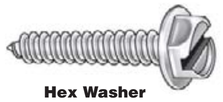
1-pc., 1-side-installation fasteners penetrate metal and tap their own mating threads to eliminate the need for prepunched holes.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Size	Length	Item No.	Pkg. Qty.
Hex Washer Head, Zinc-Plated, Slotted Drive			
#6	⅜ in	**1MB43**	100
#7	½ in	**1MB44**	100
#8	½ in	**1MB45**	100
	¾ in	**1MB46**	100
#10	½ in	**1MB47**	100
	¾ in	**1MB48**	100

Hex Washer Head w/ Neoprene Washer

82° Flat Head, Phillips Drive



Hex Washer Head

Pan Head, Phillips Drive

Sheet Metal Screws

All meet ANSI/ASME B18.6 standards, except 4HJX1, 4HJX5, 4HJX7, and 4HJX9.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

Flat Head Phillips Drive

Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	¼	#1	31JM56	100
	⅜	#1	1MA77	100
	½	#1	1MA79	100
	⅝	#1	1MA78	100
	¾	#1	1MA80	100
	1	#1	1MA81	100
#6	¼	#2	1MA82	100
	⅜	#2	1MA83	100
	½	#2	1MA84	100
	⅝	#2	1MA85	100
	¾	#2	1MA86	100
	⅞	#2	31JM57	100
	1	#2	1MA87	100
	1 ½	#2	1MA88	100
	1 ¼	#2	1MA89	100
	2	#2	31JM58	100
#8	⅜	#2	1MA90	100
	½	#2	1MA91	100
	⅝	#2	1MA92	100
	¾	#2	1MA93	100
	⅞	#2	31JM59	100
	1	#2	1MA94	100
	1 ¼	#2	1MA95	100
	1 ½	#2	1MA96	100
	1 ¾	#2	1MA97	100
	2	#2	1MA98	100
	2 ½	#2	1MA99	100
	3	#2	1MB10	100
#10	⅜	#2	31JM60	100
	½	#2	1MB11	100
	⅝	#2	31JM61	100
	¾	#2	1MB13	100
	⅞	#2	31JM62	100
	1	#2	1MB14	100
	1 ¼	#2	1MB15	100
	1 ½	#2	1MB16	100
	1 ¾	#2	1MB17	100
	2	#2	1MB18	100
	2 ½	#2	1MB19	100
	3	#2	1MB20	100
#12	½	#3	31JM63	100
	⅝	#3	31JM64	100
	¾	#3	1MB22	100
	⅞	#3	31JM65	100
	1	#3	1MB23	100
	1 ¼	#3	1MB24	100
	1 ½	#3	1MB25	100
	1 ¾	#3	1MB26	100
	2	#3	1MB27	100
	2 ½	#3	1MB28	100
	3	#3	1MB29	100
#14	¾	#3	1MB30	100
	1	#3	1MB31	100
	1 ¼	#3	1MB32	100
	1 ½	#3	1MB33	100
	1 ¾	#3	1MB34	100
	2	#3	1MB35	100
	2 ½	#3	1MB36	100
	3	#3	1MB37	100

18-8 Stainless Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	⅜	#1	1VU96	100
	½	#1	1VU97	100
	⅝	#1	1VU98	100
	¾	#1	1VU99	100
	1	#1	31JN39	100
#6	⅜	#2	1WA11	100
	½	#2	1WA12	100
	⅝	#2	1WA13	100
	¾	#2	1WA14	100
	1	#2	1WA15	100
	1 ½	#2	1WA17	100
	1 ¼	#2	31JN40	100
	2	#2	1WA18	100
#8	½	#2	1WA19	100
	⅝	#2	1WA20	100
	¾	#2	1WA21	100
	⅞	#2	1WA22	100
	1	#2	1WA23	100
	1 ¼	#2	1WA24	100
	1 ½	#2	1WA25	100
	1 ¾	#2	1WA26	100
	2	#2	1WA27	100
	2 ½	#2	31JN41	100
	3	#2	1WA29	100
#10	½	#2	2WE42	100
	⅝	#2	1WA30	100
	¾	#2	1WA31	100
	1	#2	1WA32	100
	1 ¼	#2	1WA33	100
	1 ½	#2	1WA34	100
	1 ¾	#2	1WA35	100
	2	#2	1WA36	100
	2 ½	#2	31JN42	100
	3	#2	31JN43	100
#12	¾	#3	1WA40	100
	1	#3	1WA41	100
	1 ¼	#3	1WA42	100
	1 ½	#3	1WA43	100
	1 ¾	#3	1WA44	100
	2	#3	1WA45	100
	2 ½	#3	31JN44	100
	3 ½	#3	1CJG6	25
	3	#3	31JN45	100
#14	¾	#3	1WA48	100
	1	#3	1WA49	100
	1 ¾	#3	1WA52	50
	1 ¼	#3	31JN46	100
	1 ½	#3	31JN47	100
	2	#3	31JN48	100
	2 ½	#3	31JN49	100
	3	#3	31JN50	100

Hex Washer Head Slotted/Hex Drive

Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#6	½	¼ in	1MB55	100
	¾	¼ in	1MB57	100
	1	¼ in	1MB58	100
	1 ¼	¼ in	1MB59	100
	1 ½	¼ in	1MB60	100
#7	½	¼ in	1MB61	100
#8	⅜	¼ in	1MB62	100
	⅝	¼ in	1MB64	100
	1	¼ in	1MB66	100
	1 ¼	¼ in	1MB67	100
	2	¼ in	1MB69	100
	2 ½	¼ in	1MB70	100
#10	⅜	5⁄16 in	1MB71	100
	⅝	5⁄16 in	1MB73	100
	1 ¾	5⁄16 in	1MB78	100
	2 ½	5⁄16 in	1MB80	100
	3	5⁄16 in	1MB81	100
#12	½	5⁄16 in	1MB82	100
	⅝	5⁄16 in	1MB83	100
	1 ¼	5⁄16 in	1MB86	100
	2 ½	5⁄16 in	1MB89	100
	3	5⁄16 in	1MB90	100
#14	½	⅜ in	1MB91	100
	⅝	⅜ in	1MB92	100
	¾	⅜ in	1NB86	385
	1	⅜ in	1MB94	100
	1 ¼	⅜ in	1MB95	100
¼ in	2 ½	⅜ in	1MB98	100
	3	⅜ in	1MB99	100
	¾	9⁄16 in	1ME14	100
⅜ in	1	9⁄16 in	1ME15	100
	1 ½	9⁄16 in	1ME16	100
	1 ¼	9⁄16 in	1VHE9	100
5⁄16 in	1 ½	½ in	1ME12	100
	2	½ in	1ME13	100

18-8 Stainless Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#8	1 ½	—	1WE51	100
	2	—	1WE53	100
#10	⅝	—	1WE57	100
	1 ¼	5⁄16 in	1WE63	100
#12	¾	5⁄16 in	1WE76	100
	1	—	1WE78	100

K-Lath Head Phillips Drive

Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
	½	#2	4HJX1	200
	¾	#2	4HJX5	200
	1	#2	4HJX7	200
	1 ¼	#2	4HJX9	100
#6	⅜	#2	31JM23	100
	½	#2	31JM24	100
	¾	#2	31JM25	100
#8	½	#2	31JM26	100
	9⁄16	#2	31JM27	100
	¾	#2	31JM28	100
	1	#2	31JM29	100
	1 ¼	#2	31JM30	100
	1 ½	#2	31JM31	100
	1 ⅝	#2	31JM32	100
	2	#2	31JM33	100

Oval Countersunk Head Phillips Drive

18-8 Stainless Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	¼	#1	31JN51	100
	½	#1	31JN52	100
	1	#1	31JN53	100
#6	⅝	#2	31JN54	100
	¾	#2	31JN55	100

Oval Head Phillips Drive

Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#6	½	#2	2XA63	100
	⅝	#2	2XA67	100
	¾	#2	2XA65	100
	1	#2	2XA69	100
#8	½	#2	2XA70	100
	¾	#2	2XA71	100
	1	#2	2XA72	100
	1 ½	#2	2XA73	100
#10	¾	#2	2XA74	100
	1	#2	2XA75	100
	1 ½	#2	2XA76	100

18-8 Stainless Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#6	⅜	#2	1WB39	100
	⅝	#2	1WB43	100
	¾	#2	1WB45	100
	1 ¼	#2	1WB49	100
	1 ½	#2	1WB51	100
#8	⅜	#2	1WB53	100
	½	#2	1WB55	100
	⅝	#2	1WB57	100
	¾	#2	1WB59	100
	1	#2	1WB61	100
	1 ¼	#2	1WB63	100
	1 ½	#2	1WB65	100
	1 ¾	#2	1WB67	100
	2	#2	1WB69	100
	2 ½	#2	1WB71	100
	3	#2	1WB73	100
#10	⅜	#2	1WB75	100
	½	#2	1WB77	100
	⅝	#2	1WB79	100
	¾	#2	1WB81	100
	1 ¼	#2	1WB83	100
	1 ½	#2	1WB85	100
	1 ¾	#2	1WB87	100
	1	#2	2WE66	100
	2	#2	1WB89	100
	2 ½	#2	1WB91	100
	3	#2	1WB93	100
#12	½	#3	1WB95	100
	¾	#3	1WB97	100
	1	#3	1WB99	100
	1 ¼	#3	1WE11	100
	1 ½	#3	1WE13	100
	2	#3	1WE15	100
	2 ½	#3	1WE17	25
	3	#3	1WE19	25
#14	¾	#3	1WE21	100
	1 ¼	#3	1WE23	100
	1 ½	#3	1WE25	100
	1 ¾	#3	1WE27	50
	1	#3	2WE67	100
	2	#3	1WE29	25
	2 ½	#3	1WE31	25
	3	#3	1WE33	25

Pan Head Combo Drive

Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	¼	#1	31JM41	100
	⅜	#1	1MA14	100
	½	#1	1MA15	100
	⅝	#1	1MA16	100
	¾	#1	31JM42	100
	1	#1	31JM43	100
#6	⅜	#2	1MA19	100
	½	#2	31JN67	8000
	⅝	#2	1MA21	100
	¾	#2	1MA22	100
	⅞	#2	31JM44	100
	1	#2	1MA23	100
	1 ¼	#2	1MA24	100
	1 ½	#2	1MA25	100
	2	#2	31JM45	100
#8	⅜	#2	31JM46	100
	½	#2	1MA27	100
	⅝	#2	1MA28	100
	¾	#2	1MA29	100
	⅞	#2	31JM47	100
	1	#2	1MA30	100
	1 ¼	#2	1MA31	100
	1 ½	#2	1MA32	100
	2	#2	1MA33	100
	2 ½	#2	31JM48	100
	3	#2	31JM49	100
#10	⅜	#2	31JM50	100
	½	#2	1MA34	100
	⅝	#2	31JM51	100
	¾	#2	1MA35	100
	⅞	#2	31JM52	100
	1	#2	1MA36	100
	1 ¼	#2	1MA37	100
	1 ½	#2	1MA38	100
	2	#2	1MA39	100
	2 ½	#2	1MA40	100
	3	#2	1MA41	100
#12	½	#3	1MA42	100
	⅝	#3	1MA43	100
	¾	#3	1MA44	100
	1	#3	1MA45	100
	1 ¼	#3	1MA46	100
	1 ½	#3	1MA47	100
	2	#3	1MA48	100
	2 ½	#3	1MA49	100
	3	#3	1MA50	100
#14	½	#3	31JM53	100
	¾	#3	1MA51	100
	1	#3	1MA52	100
	1 ¼	#3	1MA53	100
	1 ½	#3	1MA54	100
	2	#3	1MA55	100
	2 ½	#3	31JM54	100
	3	#3	31JM55	100

Pan Head Phillips Drive

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	¼	#1	2XB15	100
	⅜	#1	1LY38	100
	½	#1	1LY39	100
	⅝	#1	1LY40	100
	¾	#1	1LY41	100
	1	#1	1LY42	100
#6	¼	#2	1LY43	100
	⅜	#2	1LY44	100
	½	#2	1LY45	100
	⅝	#2	1LY46	100
	¾	#2	1LY47	100
	⅞	#2	31JM34	100
	1	#2	1LY49	100
	1 ¼	#2	1LY50	100
	1 ½	#2	1LY51	100
	2	#2	31JM35	100
#7	⅜	#2	1LY52	100
	½	#2	1LY53	100
	¾	#2	1LY54	100
	1 ½	#2	31JM36	100
	1	#2	31JM37	100
#8	¼	#2	1LY57	100
	⅜	#2	1LY58	100
	½	#2	1LY59	100
	⅝	#2	1LY60	100
	¾	#2	1LY61	100
	⅞	#2	1LY62	100
	1	#2	1LY63	100
	1 ¼	#2	1LY64	100
	1 ½	#2	1LY65	100
	1 ¾	#2	1LY66	100
	2	#2	1LY67	100
	2 ½	#2	1MA10	100
	3	#2	1MA11	100
#10	⅜	#2	1LY68	100
	½	#2	1LY69	100
	⅝	#2	1LY70	100
	¾	#2	1LY71	100
	⅞	#2	1LY72	100
	1	#2	1LY73	100
	1 ¼	#2	1LY74	100
	1 ½	#2	1LY75	100
	1 ¾	#2	1LY76	100
	2	#2	1LY77	100
	2 ½	#2	1LY78	100
	3	#2	1LY79	100
#12	½	#3	1LY80	100
	⅝	#3	1LY81	100
	¾	#3	1LY82	100
	⅞	#3	1LY83	100
	1	#3	1LY84	100
	1 ¼	#3	1LY85	100
	1 ½	#3	1LY86	100
	1 ¾	#3	1LY87	100
	2	#3	1LY88	100
	2 ½	#3	1MA12	100
	3	#3	1MA13	100
#14	½	#3	31JM39	100
	¾	#3	31JM40	100
	⅞	#3	1LY92	100
	1	#3	1LY93	100
	1 ¼	#3	1LY94	100
	1 ½	#3	1LY95	100
	1 ¾	#3	1LY96	100
	2	#3	1LY97	100
	2 ½	#3	1LY98	100
	3	#3	1LY99	100
¼ in	½	#3	1LY89	100
	⅝	#3	1LY91	100
	¾	#3	1LY90	100

18-8 Stainless Steel

Size	L	Driver Size	Item No.	Pkg. Qty.
#2	¼	#1	1VE41	100
	⅜	#1	1VE42	100
#4	¼	#1	1VE43	100
	⅜	#1	1VE44	100
	½	#1	1VE45	100
	⅝	#1	1VE46	100
	¾	#1	1VE47	100
	1	#1	31JN01	100
#6	¼	#2	1VE49	100
	⅜	#2	1VE50	100
	½	#2	1VE51	100
	⅝	#2	1VE52	100
	1	#2	1VE54	100
	1 ¼	#2	1VE55	100
	1 ½	#2	1VE56	100
#8	¼	#2	31JN02	100
	⅜	#2	1VE57	100
	½	#2	1VE58	100
	⅝	#2	1VE59	100
	¾	#2	1VE60	100
	⅞	#2	1VE61	100
	1	#2	1VE62	100
	1 ¾	#2	1VE65	100
	1 ¼	#2	31JN03	100
	1 ½	#2	31JN04	100
	2	#2	1VE66	100
	2 ½	#2	1VE67	100
	3	#2	1VE68	100
#10	⅜	#2	31JN05	100
	½	#2	31JN06	100
	⅝	#2	31JN07	100
	¾	#2	31JN08	100
	⅞	#2	1VE73	100
	1 ¾	#2	1VE77	100
	1	#2	31JN09	100
	1 ¼	#2	31JN10	100
	1 ½	#2	31JN11	100
	2 ½	#2	1VE79	100
	2	#2	31JN12	100
	3	#2	1VE80	100
#12	½	#3	1VE81	100
	⅝	#3	1VE82	100
	¾	#3	1VE83	100
	1	#3	1VE84	100
	1 ¼	#3	1VE85	100
	1 ½	#3	1VE86	100
	2	#3	1VE87	100
	2 ½	#3	1VE88	100
	3	#3	1VE89	100
#14	½	#3	1VE90	100
	⅝	#3	1VE91	100
	¾	#3	1VE92	100
	1	#3	1VE93	100
	1 ¼	#3	1VE94	100
	1 ½	#3	1VE95	100
	1 ¾	#3	1VE96	50
	2	#3	1VE97	50
	2 ½	#3	1VE98	50
	3	#3	1VE99	50

Round Head Phillips Drive

Size	L	Driver Size	Item No.	Pkg. Qty.
#10	1	#2	1VU95	100

Truss Head Phillips Drive

Size	L	Driver Size	Item No.	Pkg. Qty.
#4	¼	#1	1VU61	100
	⅜	#1	1VU62	100
	½	#1	31JN13	100
	¾	#1	31JN14	100
	1	#1	31JN15	100
#6	¼	#2	1VU64	100
	⅜	#2	31JN16	100
	½	#2	1VU66	100
	⅝	#2	1VU67	100
	¾	#2	31JN17	100
	1	#2	31JN18	100
#8	⅜	#2	1VU70	100
	½	#2	1VU71	100
	⅝	#2	1VU72	100
	¾	#2	1VU73	100
	1	#2	1VU74	100
	1 ¼	#2	31JN19	100
	1 ½	#2	31JN20	100
	2	#2	31JN21	100
#10	⅜	#2	1VU77	100
	½	#2	1VU78	100
	⅝	#2	1VU79	100
	¾	#2	31JN22	100
	1 ¼	#2	1VU82	100
	1 ½	#2	1VU83	100
	1	#2	31JN23	100
	2	#2	31JN24	100
	2 ½	#2	31JN25	100
#12	¾	#3	31JN26	100
	1	#3	31JN27	100
	1 ¼	#3	31JN28	100
	1 ½	#3	31JN29	100
	2	#3	31JN30	100
	2 ½	#3	31JN31	100
	3	#3	31JN32	100
#14	¾	#3	31JN33	100
	1 ¼	#3	1VU89	100
	1	#3	31JN34	100
	1 ½	#3	31JN35	100
	2	#3	31JN36	100
	2 ½	#3	31JN37	100
	3	#3	31JN38	100

Length	Driver Size	Thread Size	Material	Brand	Item No.	Pkg. Qty.
Integral Washer						
7/8"	5/16 in	1/4"-14	Steel Climaseal	Teks	36K114	250
Sealing						
5/8"	5/16 in	#10-16	Steel Zinc	—	2XA56	100
	5/16 in	#10-16	Steel Zinc	—	31JK11	3000
3/4"	1/4 in	#8-18	Steel Zinc	—	31JJ83	200
	1/4 in	#8-18	Steel Zinc	—	31JK33	4000
	5/16 in	#10-16	Steel Zinc	—	31JJ87	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K130	500
	5/16 in	#10-16	Steel Climaseal	Teks	36K131	500
	5/16 in	#10-16	Steel Zinc	—	31JK12	3000
	5/16 in	#12-14	Steel Zinc	—	2DU79	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K156	500
	5/16 in	#12-14	Steel Climaseal	Teks	36K157	500
	5/16 in	#12-14	Steel Zinc	—	31JK13	2500
	3/8 in	1/4"-14	Steel Zinc	—	1ME17	100
	3/8 in	1/4"-14	Steel Zinc	—	31JK15	1500
7/8"	5/16 in	1/4"-14	Steel Climaseal	Teks	36K113	500
	5/16 in	1/4"-14	Steel Climaseal	Teks	36K112	500
1"	1/4 in	#8-18	Steel Zinc	—	31JJ84	200
	1/4 in	#8-18	Steel Zinc	—	31JK34	3000
	5/16 in	#10-16	Steel Zinc	—	31JJ88	100
	5/16 in	#10-16	Steel Zinc	—	31JK35	2500
	5/16 in	#12-14	Steel Zinc	—	2DU80	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K140	250
	5/16 in	#12-14	Steel Climaseal	Teks	36K141	250
	5/16 in	#12-14	Steel Climaseal	Teks	36K142	250
	5/16 in	#12-14	Steel Zinc	—	31JK14	2000
	3/8 in	1/4"-14	Steel Zinc	—	2DU84	100
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K099	250
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K098	250
1 1/8"	5/16 in	1/4"-14	Steel Climaseal	Teks	36K105	250
1 1/4"	1/4 in	#8-18	Steel Zinc	—	31JJ85	100
	5/16 in	#10-16	Steel Zinc	—	31JJ89	100
	5/16 in	#10-16	Steel Zinc	—	31JK36	2000
	5/16 in	#12-14	Steel Zinc	—	2DU81	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K148	250
	5/16 in	#12-14	Steel Climaseal	Teks	36K149	250
	5/16 in	#12-14	Steel Zinc	—	31JK39	1500
	5/16 in	#12-24	Steel Climaseal	Teks	36K164	250
	3/8 in	1/4"-14	Steel Zinc	—	1ME19	100
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K104	250
1 1/2"	1/4 in	#8-18	Steel Zinc	—	31JJ86	100
	5/16 in	#10-16	Steel Zinc	—	31JJ90	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K124	250
	5/16 in	#10-16	Steel Zinc	—	31JK37	2000
	5/16 in	#12-14	Steel Zinc	—	2DU82	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K146	250
	5/16 in	#12-14	Steel Climaseal	Teks	36K144	250
	5/16 in	#12-14	Steel Zinc	—	31JK40	1500
	5/16 in	#12-24	Steel Climaseal	Teks	36K160	250
	5/16 in	#12-24	Steel Climaseal	Teks	36K163	250
	5/16 in	#12-24	Steel Climaseal	Teks	36K145	250
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K102	250
1 3/4"	3/8 in	1/4"-14	Steel Climaseal	Teks	36K106	250
2"	5/16 in	#10-16	Steel Zinc	—	31JJ91	100
	5/16 in	#10-16	Steel Zinc	—	31JK38	1500
	5/16 in	#12-14	Steel Zinc	—	2XA62	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K151	250
	5/16 in	#12-14	Steel Zinc	—	31JK41	1000
3"	3/8 in	1/4"-14	Steel Zinc	—	1ME22	50
Self Drilling Screw						
3/8"	1/4 in	#6-20	Steel Zinc	—	31JJ42	200
	1/4 in	#6-20	Steel Zinc	—	31JK17	7000
1/2"	1/4 in	#6-20	Steel Zinc	—	31JJ43	200
	1/4 in	#6-20	Steel Zinc	—	31JJ92	7000
	1/4 in	#8-18	410 SS Plain	—	1WU76	100
	1/4 in	#8-18	Steel Zinc	—	31JJ46	200
	1/4 in	#8-18	Steel Zinc	—	31JJ93	5000
	5/16 in	#10-16	410 SS Plain	—	1ME54	100
	5/16 in	#10-16	Steel Zinc	—	31JJ52	200
	5/16 in	#10-16	Steel Climaseal	Teks	36K122	500
	5/16 in	#10-16	Steel Zinc	—	31JJ97	3000

Length	Driver Size	Thread Size	Material	Brand	Item No.	Pkg. Qty.
Self Drilling Screw (Cont.)						
5/8"	1/4 in	#8-18	410 SS Plain	—	1WU78	100
	1/4 in	#8-18	Steel Zinc	—	31JJ47	200
	1/4 in	#8-18	Steel Zinc	—	31JJ94	4000
	5/16 in	#10-16	410 SS Plain	—	1WU88	100
	5/16 in	#10-16	Steel Zinc	—	2XA47	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K133	500
	5/16 in	#10-16	Steel Zinc	—	31JJ98	3000
3/4"	1/4 in	#6-20	Steel Zinc	—	31JJ44	200
	1/4 in	#6-20	Steel Zinc	—	31JK18	5000
	1/4 in	#8-18	410 SS Plain	—	1WU80	100
	1/4 in	#8-18	Steel Zinc	—	31JJ48	200
	1/4 in	#8-18	Steel Zinc	—	31JJ95	4000
	5/16 in	#10-16	410 SS Plain	—	1WU90	100
	5/16 in	#10-16	Steel Zinc	—	31JJ53	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K127	500
	5/16 in	#10-16	Steel Climaseal	Teks	36K128	500
	5/16 in	#10-16	Steel Zinc	Teks	36K129	500
	5/16 in	#10-16	Steel Zinc	—	31JJ99	3000
	5/16 in	#12-14	410 SS Plain	—	1WU98	50
	5/16 in	#12-14	Steel Zinc	—	31JJ58	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K155	500
	5/16 in	#12-14	410 SS Plain	—	31JK22	2000
	5/16 in	#12-14	Steel Zinc	—	31JK04	2500
	3/8 in	1/4"-14	410 SS Plain	—	1WY18	50
	3/8 in	1/4"-14	Steel Zinc	—	31JJ62	100
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K110	500
	3/4 in	1/4"-14	Steel Zinc	—	31JK06	1500
7/8"	5/16 in	#12-24	Steel Climaseal	Teks	36K169	500
	5/16 in	1/4"-14	Steel Climaseal	Teks	36K111	500
1"	1/4 in	#6-20	Steel Zinc	—	31JJ45	200
	1/4 in	#8-18	410 SS Plain	—	1WU82	100
	1/4 in	#8-18	Steel Zinc	—	31JJ49	200
	1/4 in	#8-18	Steel Zinc	—	31JJ96	3000
	5/16 in	#10-16	410 SS Plain	—	1WU92	100
	5/16 in	#10-16	Steel Zinc	—	31JJ54	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K121	500
	5/16 in	#10-16	Steel Zinc	—	31JK01	2500
	5/16 in	#12-14	410 SS Plain	—	1WY10	50
	5/16 in	#12-14	Steel Zinc	—	1ME41	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K139	500
	5/16 in	#12-14	410 SS Plain	—	31JK23	2000
	5/16 in	#12-14	Steel Zinc	—	31JK05	2000
	3/8 in	1/4"-14	410 SS Plain	—	1WY20	50
	3/8 in	1/4"-14	Steel Zinc	—	31JJ63	100
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K097	250
	7/16 in	1/4"-14	Steel Climaseal	Teks	36K096	250
	3/8 in	1/4"-14	410 SS Plain	—	31JK24	1000
	3/4 in	1/4"-14	Steel Zinc	—	31JK07	1000
1 1/4"	1/4 in	#8-18	410 SS Plain	—	1WU84	100
	1/4 in	#8-18	Steel Zinc	—	31JJ50	100
	5/16 in	#10-16	410 SS Plain	—	1WU94	50
	5/16 in	#10-16	Steel Zinc	—	31JJ55	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K125	500
	5/16 in	#10-16	Steel Zinc	—	31JK02	2000
	5/16 in	#12-14	410 SS Plain	—	1WY12	50
	5/16 in	#12-14	Steel Zinc	—	31JJ59	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K147	500
	5/16 in	#12-24	Steel Climaseal	Teks	36K161	500
	5/16 in	#12-24	Steel Climaseal	Teks	36K162	500
	3/8 in	1/4"-14	410 SS Plain	—	1WY22	25
	3/8 in	1/4"-14	Steel Zinc	—	31JJ64	100
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K103	250

Hex Washer

w/Neoprene Washer

ITW Buildex

Self-Drilling Hex Washer Sheet Metal Screws

- Package quantities are exact

1-pc., 1-side-installation fasteners have a drilling point tip that drills its own hole and forms its own internal mating threads.

Climaseal corrosion-resistant finish provides excellent resistance to most forms of abrasion and torque.

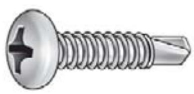
Electro Zinc corrosion-resistant finish is applied to 36K129.

Gray Spex corrosion-resistant finish on 36K145 is an organic waterborne coating, applied with a state-of-the-art process that eliminates Phillips recess fill problems.

Length	Driver Size	Thread Size	Material	Brand	Item No.	Pkg. Qty.
Self Drilling Screw (Cont.)						
1 1/2"	1/4 in	#8-18	410 SS Plain	—	1WU86	100
	1/4 in	#8-18	Steel Zinc	—	31JJ51	100
	1/4 in	#8-18	Steel Zinc	—	31JK19	2500
	5/16 in	#10-16	410 SS Plain	—	1WU96	50
	5/16 in	#10-16	Steel Zinc	—	31JJ56	100
	5/16 in	#10-16	Steel Climaseal	Teks	36K123	500
	5/16 in	#10-16	Steel Zinc	—	31JK03	2000
	5/16 in	#12-14	410 SS Plain	—	1WY14	50
	5/16 in	#12-14	Steel Zinc	—	31JJ60	100
	5/16 in	#12-14	Steel Climaseal	Teks	36K143	250
	5/16 in	#12-14	Steel Zinc	—	31JK20	1500
	5/16 in	#12-24	Steel Climaseal	Teks	36K159	250
	3/8 in	1/4"-14	410 SS Plain	—	1WY24	25
	3/8 in	1/4"-14	Steel Zinc	—	31JJ65	50
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K101	250
	3/4 in	1/4"-14	Steel Zinc	—	31JK08	1000
1 5/8"	#3	#12-24	Steel Climaseal	Teks	36K165	250
2"	5/16 in	#10-16	Steel Zinc	—	31JJ57	100
	5/16 in	#12-14	410 SS Plain	—	1WY16	25
	5/16 in	#12-14	Steel Zinc	—	31JJ61	50
	5/16 in	#12-14	Steel Climaseal	Teks	36K150	250
	5/16 in	#12-14	Steel Zinc	—	31JK21	1000
	5/16 in	#12-24	Steel Climaseal	Teks	36K166	250
	3/8 in	1/4"-14	410 SS Plain	—	1WY26	25
	3/8 in	1/4"-14	Steel Zinc	—	31JJ66	50
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K107	250
2 1/2"	5/16 in	#12-14	Steel Climaseal	Teks	36K152	100
	3/8 in	1/4"-14	410 SS Plain	—	1WY28	10
	3/8 in	1/4"-14	Steel Zinc	—	31JJ67	50
	3/8 in	1/4"-14	Steel Climaseal	Teks	36K108	100
3"	5/16 in	#12-14	Steel Climaseal	Teks	36K153	100
	5/16 in	1/4"-28	Steel Climaseal	Teks	36K116	100
	3/8 in	1/4"-14	Steel Zinc	—	31JJ68	50
	7/16 in	1/4"-14	Steel Climaseal	Teks	36K109	100
4"	5/16 in	#12-14	Steel Climaseal	Teks	36K158	50
	5/16 in	1/4"-28	Steel Climaseal	Teks	36K117	50

Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
Flat Head Phillips Drive						
#6-20	1/2	#2	410 SS	—	1WY74	100
	1/2	#2	Steel	—	31JJ69	100
	5/8	#2	410 SS	—	1WY76	100
	5/8	#2	Steel	—	31JJ70	100
	3/4	#2	410 SS	—	1WY78	100
	3/4	#2	Steel	—	31JJ71	100
	1	#2	410 SS	—	1WY80	100
	1	#2	Steel	—	31JJ72	100
	1 1/4	#2	Steel	—	31JJ73	100
	1 1/2	#2	Steel	—	31JJ74	100
	1 5/8	#2	Steel	—	31JJ75	100
#8-18	3/4	#2	410 SS	—	1WY82	100
	3/4	#2	Steel	—	31JJ76	100
	1	#2	410 SS	—	1WY84	100
	1	#2	Steel	—	31JJ77	100
	1 1/4	#2	Steel	—	31JJ78	100
	1 1/2	#2	Steel	—	31JJ79	100
	1 5/8	#2	Steel	—	31JJ80	100
#10-16	1 1/4	#2	410 SS	—	1WY92	50
	1 1/2	#2	410 SS	—	1WY94	50
#10-24	1 7/16	#2	Steel	Teks	36K136	500
#12-24	2 1/4	#3	Steel	Teks	36K167	250
	2 3/4	#3	Steel	Teks	36K168	250
1/4"-20	3	#3	Steel	Teks	36K115	100
Flat Head Phillips or Robertson or Square Drive						
#10-16	1 13/16	#2	Steel	Teks	36K126	250
K-Lath Head Hex Drive						
#8-18	1 1/4	#2	Steel	—	31JK10	2500

Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
K-Lath Head Phillips Drive						
#8-18	1/2	#2	Steel	—	31JK28	4000
	3/4	#2	Steel	—	31JK29	3400
	1 1/2	#2	Steel	—	31JJ81	100
	1 5/8	#2	Steel	—	31JJ82	100
	1	#2	Steel	—	31JK30	3000
	1 1/2	#2	Steel	—	31JK31	2000
	1 5/8	#2	Steel	—	31JK32	2000
Pan Head Phillips Drive						
#6-20	3/8	#2	Steel	—	2DU88	100
	1/2	#2	410 SS	—	1WY30	100
	1/2	#2	Steel	—	2DU89	100
	5/8	#2	410 SS	—	1WY32	100
	5/8	#2	Steel	—	2DU90	100
	3/4	#2	410 SS	—	1WY34	100
	3/4	#2	Steel	—	2DU91	100
	1	#2	Steel	—	2DU92	100
#8-18	1/2	#2	410 SS	—	1WY36	100
	1/2	#2	Steel	—	2DU93	100
	5/8	#2	410 SS	—	1WY38	100
	5/8	#2	Steel	—	2DU94	100
	3/4	#2	410 SS	—	1WY40	100
	3/4	#2	Steel	—	2DU95	100
	1	#2	410 SS	—	1WY42	100
	1 1/4	#2	410 SS	—	1WY44	100
	1	#2	Steel	—	2DU96	100
	1 1/4	#2	Steel	—	2DU97	100
	1 1/2	#2	Steel	—	2DU98	100



Pan Head

Thread Size	L	Driver Size	Material	Brand	Item No.	Pkg. Qty.
#10-16	1/2	#3	410 SS	—	1WY48	100
	1/2	#2	Steel	—	2DU99	100
	5/8	#2	Steel	—	2DV10	100
	3/4	#3	Steel	—	2DV11	100
	1	#2	410 SS	—	1WY52	100
	1 1/4	#2	410 SS	—	1WY54	50
	1 1/2	#2	410 SS	—	1WY56	50
	1	#3	Steel	—	2DV12	100
	1 1/4	#3	Steel	—	2DV13	100
	1 1/2	#3	Steel	—	2DV14	100
#10-12	1	#2	Steel	Tappers	36K118	500
	1 1/2	#2	Steel	Tappers	36K119	250
#12-14	3/4	#3	410 SS	—	1WY58	50
	3/4	#3	Steel	—	2DV15	100
	1	#3	410 SS	—	1WY60	50
	1 1/4	#3	410 SS	—	1WY62	50
	1 1/2	#3	410 SS	—	1WY64	50
1/4"-14	1	#3	Steel	—	2DV16	100
	1 1/4	#3	410 SS	—	1WY68	25
	1 1/2	#3	410 SS	—	1WY70	25
	2	#3	410 SS	—	1WY72	25
Pan Head Phillips or Robertson or Square Drive						
#10-16	1	#2	Steel	Teks	36K120	500
#12-14	1	#2	Steel	Teks	36K138	500
Wafer Head Phillips Drive						
#10-24	1	#2	Steel	Teks	36K134	500

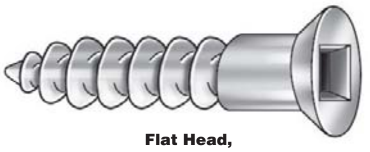
ITW Buildex

Self-Drilling Sheet Metal Screws

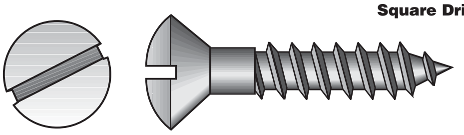
1-pc., 1-side-installation fasteners drill their own holes and form their own internal mating threads.

Climacoat finish prevents rust from bleeding into substrate.

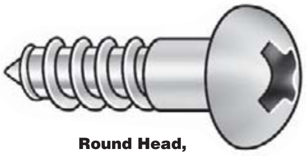
Climaseal corrosion-resistant finish provides excellent resistance to most forms of abrasion and torque.



Flat Head, Square Drive



Oval Head, Slotted Drive



Round Head, Phillips Drive

Wood Screws

- Pkg. 100

For use with wood or other resilient materials.

Meet ANSI/ASME B18.6.1 standards.

Note: Flat head and round head slotted-drive wood screws are also available; on Grainger.com®, search for "wood screws."

Size	L	Item No.
Flat Head, Phillips Drive		
18-8 Stainless Steel Plain		
#4	⅜ in	31JG41
#4	½ in	31JG42
#4	⅝ in	31JG43
#4	¾ in	31JG44
#4	1 in	31JG45
#4	1 ¼ in	31JG46
#5	⅝ in	31JG47
#5	¾ in	31JG48
#5	1 in	31JG49
#6	⅜ in	31JG50
#6	½ in	2DV24
#6	⅝ in	31JG51
#6	¾ in	2DV25
#6	1 in	31JG52
#6	1 ¼ in	31JG53
#6	1 ½ in	31JG54
#6	2 in	31JG55
#7	½ in	31JG56
#7	⅝ in	31JG57
#7	¾ in	31JG58
#7	1 in	31JG59
#7	1 ¼ in	31JG60
#7	1 ½ in	31JG61
#8	½ in	31JG62
#8	⅝ in	31JG63
#8	¾ in	2DV26
#8	⅞ in	31JG64
#8	1 ½ in	2DV28
#8	1 ¾ in	2DV29
#8	1 in	31JG65
#8	1 ¼ in	31JG66
#8	2 in	2DV30
#8	2 ½ in	31JG67
#8	3 in	31JG68
#10	⅝ in	31JG69
#10	¾ in	31JG70
#10	1 ¾ in	2DV32
#10	1 in	31JG71
#10	1 ¼ in	31JG72
#10	1 ½ in	31JG73
#10	2 in	2DV33
#10	2 ¼ in	31JG74
#10	2 ½ in	31JG75
#10	3 in	31JG76
#10	3 ½ in	31JG77
#12	¾ in	31JG78
#12	1 ½ in	2DV34
#12	1 ¾ in	2DV35
#12	1 in	31JG79
#12	1 ¼ in	31JG80
#12	2 in	2DV36
#12	2 ½ in	2DV37
#12	3 in	31JG81
#14	1 ¼ in	31JG82
#14	1 ½ in	31JG83
#14	2 ½ in	2DV38
#14	2 in	31JG84
#14	3 in	31JG85
#14	3 ½ in	31JG86
#14	4 in	31JG87
Brass Plain		
#4	⅜ in	1KY62
#4	½ in	1KY63
#4	⅝ in	1KY64
#4	¾ in	1KY65
#4	1 in	1KY67
#4	1 ¼ in	31JG05
#5	⅝ in	1KY69
#5	¾ in	1KY70
#5	1 in	1KY71
#6	⅜ in	1KY72
#6	½ in	1KY73
#6	⅝ in	1KY74
#6	¾ in	1KY75
#6	1 in	1KY77
#6	1 ¼ in	1KY78
#6	1 ½ in	1KY79
#6	2 in	31JG06
#7	½ in	1KY80
#7	⅝ in	1KY81
#7	¾ in	31JG07
#7	1 ½ in	1KY84
#7	1 in	31JG08
#7	1 ¼ in	31JG09
#8	½ in	1KY85
#8	⅝ in	1KY86
#8	¾ in	1KY87
#8	⅞ in	1KY88
#8	1 in	1KY89
#8	1 ¼ in	1KY90
#8	1 ½ in	1KY91
#8	1 ¾ in	1KY92
#8	2 ½ in	1KY94
#8	2 in	31JG10
#8	3 in	1KY95
#10	⅝ in	31JG11
#10	¾ in	1KY98
#10	1 ¼ in	1LA10
#10	1 ½ in	1LA11
#10	1 ¾ in	1LA12
#10	1 in	31JG12
#10	2 in	1LA13
#10	2 ½ in	1LA14
#10	2 ¼ in	31JG13
#10	3 in	1LA15
#10	3 ½ in	31JG14
#12	¾ in	1LA16
#12	1 in	1LA17
#12	1 ¼ in	1LA18
#12	1 ¾ in	1LA20
#12	1 ½ in	31JG15
#12	2 in	1LA21
#12	2 ½ in	1LA22
#12	3 in	1LA23
#14	1 ½ in	1LA24
#14	1 ¼ in	31JG16
#14	2 in	1LA25
#14	2 ½ in	1LA26
#14	3 in	1LA27
#14	3 ½ in	31JG17
#14	4 in	31JG18
Steel Yellow Zinc		
#4	⅜ in	31JE35
#4	½ in	31JE36
#4	⅝ in	31JE37
#4	¾ in	31JE38
#4	1 in	31JE39
#4	1 ¼ in	31JE40
#5	⅝ in	31JE41
#5	¾ in	31JE42
#5	1 in	31JE43
#6	⅜ in	31JE44
#6	½ in	31JE45
#6	⅝ in	31JE46
#6	¾ in	31JE47
#6	1 in	31JE48
#6	1 ¼ in	31JE49
#6	1 ½ in	31JE50
#6	2 in	31JE51
#7	½ in	31JE52
#7	⅝ in	31JE53
#7	¾ in	31JE54
#7	1 in	31JE55
#7	1 ¼ in	31JE56
#7	1 ½ in	31JE57
#8	½ in	31JE58
#8	⅝ in	31JE59
#8	¾ in	31JE60
#8	⅞ in	31JE61
#8	1 in	31JE62
#8	1 ¼ in	31JE63
#8	1 ½ in	31JE64
#8	1 ¾ in	31JE65
#8	2 in	31JE66
#8	2 ½ in	31JE67
#8	3 in	31JE68
#10	⅝ in	31JE69
#10	¾ in	31JE70
#10	1 in	31JE71
#10	1 ¼ in	31JE72
#10	1 ½ in	31JE73
#10	1 ¾ in	31JE74
#10	2 in	31JE75
#10	2 ¼ in	31JE76
#10	2 ½ in	31JE77
#10	3 in	31JE78
#10	3 ½ in	31JE79
#12	¾ in	31JE80
#12	1 in	31JE81
#12	1 ¼ in	31JE82
#12	1 ½ in	31JE83
#12	1 ¾ in	31JE84
#12	2 in	31JE85
#12	2 ½ in	31JE86
#12	3 in	31JE87
#14	1 ¼ in	31JE88
#14	1 ½ in	31JE89
#14	2 in	31JE90
#14	2 ½ in	31JE91
#14	3 in	31JE92
#14	3 ½ in	31JE93
#14	4 in	31JE94
Steel Zinc		
#4	⅜ in	1KU50
#4	½ in	1KU52
#4	⅝ in	1KU54
#4	¾ in	1KU56
#4	1 in	1KU59
#4	1 ¼ in	1KU60
#5	⅝ in	1KU62
#5	¾ in	1KU64
#5	1 in	1KU66
#6	⅜ in	1KU68
#6	½ in	1KU70
#6	⅝ in	1KU72
#6	¾ in	1KU74
#6	1 in	1KU76
#6	1 ¼ in	1KU78
#6	1 ½ in	1KU80
#6	2 in	1KU82
#7	½ in	31JE34
#7	⅝ in	1KU86
#7	¾ in	1KU88
#7	1 in	1KU90
#7	1 ¼ in	1KU92
#7	1 ½ in	1KU94
#8	½ in	1KU96
#8	⅝ in	1KU98
#8	¾ in	1KY10
#8	⅞ in	1KY12
#8	1 in	1KY14
#8	1 ¼ in	1KY16
#8	1 ½ in	1KY17
#8	1 ¾ in	1KY18
#8	2 in	1KY19
#8	2 ½ in	1KY20
#8	3 in	1KY21
#9	1 ¼ in	1KY24
#9	1 ½ in	1KY25
#9	3 in	1KY27
#10	⅝ in	1KY28
#10	¾ in	1KY29
#10	1 in	1KY30
#10	1 ¼ in	1KY31
#10	1 ½ in	1KY32
#10	1 ¾ in	1KY33
#10	2 in	1KY34
#10	2 ¼ in	1KY35
#10	2 ½ in	1KY36
#10	3 in	1KY37
#10	3 ½ in	1KY38
#12	¾ in	1KY39
#12	1 in	1KY40
#12	1 ¼ in	1KY41
#12	1 ½ in	1KY42
#12	1 ¾ in	1KY43
#12	2 in	1KY44
#12	2 ½ in	1KY45
#12	3 in	1KY46
#14	1 ¼ in	1KY49
#14	1 ½ in	1KY50
#14	2 in	1KY51
#14	2 ½ in	1KY52
#14	3 in	1KY53
#14	3 ½ in	1KY54
#14	4 in	1KY55
Flat Head, Slotted Drive		
Steel Yellow Zinc		
#4	½ in	31JF11
#4	¾ in	31JF12
#5	¾ in	31JF13
#6	½ in	31JF14
#6	⅝ in	31JF15
#6	¾ in	31JF16
#6	1 in	31JF17
#6	1 ¼ in	31JF18
#6	1 ½ in	31JF19
#8	¾ in	31JF20
#8	1 in	31JF21
#8	1 ¼ in	31JF22
#8	1 ½ in	31JF23
#10	1 in	31JF24
#10	1 ½ in	31JF25
Steel Zinc		
#4	½ in	31JE95
#4	¾ in	31JE96
#5	¾ in	31JE97
#6	½ in	31JE98
#6	⅝ in	31JE99
#6	¾ in	31JF01
#6	1 in	31JF02
#6	1 ¼ in	31JF03
#6	1 ½ in	31JF04
#8	¾ in	31JF05
#8	1 in	31JF06
#8	1 ¼ in	31JF07
#8	1 ½ in	31JF08
#10	1 in	31JF09
#10	1 ½ in	31JF10
Flat Head, Square Drive		
18-8 Stainless Steel Plain		
#6	½ in	31JG88
#6	1 in	31JG89
#6	1 ¼ in	31JG90
#6	1 ½ in	31JG91
#8	¾ in	31JG92
#8	1 in	31JG93
#8	1 ¼ in	31JG94
#8	1 ½ in	31JG95
#10	1 in	31JG96
#10	1 ¼ in	31JG97
#10	1 ½ in	31JG98
Steel Yellow Zinc		
#4	½ in	31JF26
#4	¾ in	31JF27
#6	½ in	31JF28
#6	¾ in	31JF29
#6	1 in	31JF30
#6	1 ¼ in	31JF31
#6	1 ½ in	31JF32
#8	½ in	31JF33
#8	¾ in	31JF34
#8	1 in	31JF35
#8	1 ¼ in	31JF36
#8	1 ½ in	31JF37
#8	2 in	31JF38
#8	2 ½ in	31JF39
#8	3 in	31JF40
#10	¾ in	31JF41
#10	1 in	31JF42
#10	1 ¼ in	31JF43
#10	1 ½ in	31JF44
#10	1 ¾ in	31JF45
#10	2 in	31JF46
#10	2 ½ in	31JF47
#10	3 in	31JF48
#12	1 in	31JF49
#12	1 ½ in	31JF50
#12	2 in	31JF51
#12	2 ½ in	31JF52
#12	3 in	31JF53
Steel Zinc		
#4	½ in	1LA28
#4	¾ in	1LA29
#6	½ in	1LA30
#6	¾ in	1LA31
#6	1 in	1LA32
#6	1 ¼ in	1LA33
#6	1 ½ in	1LA34
#8	½ in	1LA35
#8	¾ in	1LA36
#8	1 in	1LA37
#8	1 ¼ in	1LA38
#8	1 ½ in	1LA39
#8	2 in	1LA40
#8	2 ½ in	1LA41
#8	3 in	1LA42
#10	¾ in	1LA43
#10	1 in	1LA44
#10	1 ¼ in	1LA45
#10	1 ½ in	1LA46
#10	1 ¾ in	1LA47
#10	2 in	1LA48
#10	2 ½ in	1LA49
#10	3 in	1LA50
#12	1 in	1LA51
#12	1 ½ in	1LA52
#12	2 in	1LA53
#12	2 ½ in	1LA54
#12	3 in	1LA55
Oval Head, Slotted Drive		
Brass Plain		
#4	½ in	1NB15
#4	¾ in	1NB16
#6	⅝ in	1NB19
#6	¾ in	1NB20
#6	1 in	1NB21
#6	1 ¼ in	1NB22
#6	1 ½ in	1NB23
#8	¾ in	1NB24
#8	1 ¼ in	1NB26
#8	1 ½ in	1NB27
#10	1 in	1NB28
#10	1 ½ in	1NB29
Raised Countersunk Head, Slotted Drive		
18-8 Stainless Steel Plain		
#4	½ in	31JG99
#4	¾ in	31JH01
#6	⅝ in	31JH02
#6	¾ in	31JH03
#6	1 in	31JH04
#6	1 ¼ in	31JH05
#6	1 ½ in	31JH06
#8	½ in	31JH07
#8	¾ in	31JH08
#8	1 ¼ in	31JH09
#8	1 ½ in	31JH10
#8	2 ½ in	31JH11
#10	1 in	31JH12
#10	1 ¼ in	31JH13
#10	1 ½ in	31JH14
#10	2 ½ in	31JH15
#12	1 in	31JH16
#12	1 ¾ in	31JH17
#14	1 in	31JH18
#14	1 ¾ in	31JH19
Brass Plain		
#8	½ in	31JF96
#8	2 ½ in	31JF97
#10	1 ¼ in	31JF98
#10	2 ½ in	31JF99
#12	1 in	31JG01
#12	1 ¾ in	31JG02
#14	1 in	31JG03
#14	1 ¾ in	31JG04
Steel Zinc		
#4	½ in	31JF76
#4	¾ in	31JF77
#6	⅝ in	31JF78
#6	¾ in	31JF79
#6	1 in	31JF80
#6	1 ¼ in	31JF81
#6	1 ½ in	31JF82
#8	½ in	31JF83
#8	¾ in	31JF84
#8	1 ¼ in	31JF85
#8	1 ½ in	31JF86
#8	2 ½ in	31JF87
#10	1 in	31JF88
#10	1 ¼ in	31JF89
#10	1 ½ in	31JF90
#10	2 ½ in	31JF91
#12	1 in	31JF92
#12	1 ¾ in	31JF93
#14	1 in	31JF94
#14	1 ¾ in	31JF95
Round Head, Phillips Drive		
18-8 Stainless Steel Plain		
#6	½ in	31JG30
#6	1 in	31JG31
#6	1 ¼ in	31JG32
#6	1 ½ in	31JG33
#8	¾ in	31JG34
#8	1 in	31JG35
#8	1 ¼ in	31JG36
#8	1 ½ in	31JG37
#10	1 in	31JG38
#10	1 ¼ in	31JG39
#10	1 ½ in	31JG40
Steel Yellow Zinc		
#6	½ in	31JF65
#6	1 in	31JF66
#6	1 ¼ in	31JF67
#6	1 ½ in	31JF68
#8	¾ in	31JF69
#8	1 in	31JF70
#8	1 ¼ in	31JF71
#8	1 ½ in	31JF72
#10	1 in	31JF73
#10	1 ¼ in	31JF74
#10	1 ½ in	31JF75
Steel Zinc		
#6	½ in	31JF54
#6	1 in	31JF55
#6	1 ¼ in	31JF56
#6	1 ½ in	31JF57
#8	¾ in	31JF58
#8	1 in	31JF59
#8	1 ¼ in	31JF60
#8	1 ½ in	31JF61
#10	1 in	31JF62
#10	1 ¼ in	31JF63
#10	1 ½ in	31JF64
Round Head, Slotted Drive		
18-8 Stainless Steel Plain		
#6	½ in	31JG19
#6	1 in	31JG20
#6	1 ¼ in	31JG21
#6	1 ½ in	31JG22
#8	¾ in	31JG23
#8	1 in	31JG24
#8	1 ¼ in	31JG25
#8	1 ½ in	31JG26
#10	1 in	31JG27
#10	1 ¼ in	31JG28
#10	1 ½ in	31JG29
Steel Yellow Zinc		
#6	½ in	31JE23
#6	1 in	31JE24
#6	1 ¼ in	31JE25
#6	1 ½ in	31JE26
#8	¾ in	31JE27
#8	1 in	31JE28
#8	1 ¼ in	31JE29
#8	1 ½ in	31JE30
#10	1 in	31JE31
#10	1 ¼ in	31JE32
#10	1 ½ in	31JE33

Flat-Head Wood Screw

Pan-Head Composite Screw

Driver Bit

Phillips Square-Driv Wood Screws and Bits

- Bit included with each box of screws

Case-hardened, flat-head screws have 35% more steel under the head to prevent snapping. Paintable, stainable Durafast coating will not rust or streak and is corrosion-resistant.

Size	Length	Head Type	Pkg. Qty.	GREEN Item No.	RED Item No.	TAN Item No.	GRAY Item No.
Flat Head Wood Screw, Phillips Square PSD2-2							
#8	1 ⅝ in	Flat	142	**4VYJ3**	—	**4VYJ5**	—
#7	1 ¼ in	Flat	228	**4VYH9**	**4VYJ1**	**4VYJ2**	—
#8	1 ⅝ in	Flat	710	**4VYK9**	**4VYL1**	**4VYL2**	—
		Flat	3450	—	—	**4VYN6**	—
#9	2 ½ in	Flat	84	**4VYJ9**	**4VYK1**	**4VYK2**	—
	2 in	Flat	99	**4VYJ6**	**4VYJ7**	**4VYJ8**	—
	2 ½ in	Flat	420	**4VYL6**	**4VYL7**	**4VYL8**	—
	2 in	Flat	495	**4VYL3**	**4VYL4**	**4VYL5**	—
	2 ½ in	Flat	2100	**4VYP3**	**4VYN7**	**4VYN8**	—
	3 ½ in	Flat	57	**4VYK6**	**4VYK7**	**4VYK8**	—
	3 in	Flat	69	**4VYK3**	**4VYK4**	**4VYK5**	—
	3 ½ in	Flat	280	**4VYN3**	**4VYN4**	**4VYN5**	—
	3 in	Flat	345	**4VYL9**	**4VYN1**	**4VYN2**	—
		Flat	1725	**4VYN9**	**4VYP1**	**4VYP2**	—
Pan Head Composite Screw, Square #2							
#10	2 ½ in	Pan	2125	—	—	**4VYP6**	—
	3 in	Pan	375	—	**4VYR5**	**4VYR6**	**4VYR4**
		Pan	1875	—	—	—	**4VYP7**

Type	Pkg. Qty.	1" BIT LENGTH Item No.	2" BIT LENGTH Item No.
Driver Bit For Use With Wood Screws			
Phillips Square	2	**4VYR7**	**4VYR9**
Phillips Square	5	**4VYR8**	**4VYT1**
Driver Bit For Use With Composite Screws			
Phillips Square	2	**4VYT2**	—

Flat Head, Square Drive

Deck Screws

Coarse thread and Type 17 point make it easier to assemble wood and vinyl decks, or any outdoor wood-to-wood project. Countersunk flat head produces a flat surface area. Number 2 drive size provides superior driving with 4 points of contact.

Size	Length	Item No.	Pkg. Qty.
305 Stainless Steel			
Bugle Head, Star Drive			
#8	1 ⅝ in	**31JJ22**	200
	2 in	**31JJ23**	200
	2 ¼ in	**31JJ24**	200
	2 ½ in	**31JJ25**	200
	3 in	**31JJ26**	200
#10	1 ⅝ in	**31JJ27**	200
	2 in	**31JJ28**	200
	2 ½ in	**31JJ29**	200
	3 in	**31JJ30**	200
	3 ½ in	**31JJ31**	200

Size	Length	Item No.	Pkg. Qty.
Flat Head, Square Drive			
#8	1 ⅝ in	**1VB35**	50
	1 ¼ in	**1VB34**	100
	2 in	**1VB36**	50
	2 ½ in	**1VB37**	50
#10	1 ½ in	**1VB38**	50
	2 ½ in	**1VB40**	25
	2 in	**1VB39**	50
	3 in	**1VB41**	25
	3 ½ in	**1VB42**	25
Steel, Yellow Zinc Finish			
Bugle Head, Star Drive			
#8	1 ⅝ in	**31JJ32**	200
	2 in	**31JJ33**	200
	2 ¼ in	**31JJ34**	200
	2 ½ in	**31JJ35**	200
	3 in	**31JJ36**	200
#10	1 ⅝ in	**31JJ37**	200
	2 in	**31JJ38**	200
	2 ½ in	**31JJ39**	200
	3 in	**31JJ40**	200
	3 ½ in	**31JJ41**	200

82° Flat Head

Drywall Screws

Attach drywall or wallboard to metal or wood studs and joists without the need for predrilling. Thread-cutting screws feature a thin shank, deep threads, and a very sharp point. With a #2 Phillips driver, the countersunk bugle head won't tear the surface paper of the drywall. Made of steel with black phosphate finish.

Size	L	Thread Type	Item No.	Pkg. Qty.
Sharp Point, Phillips Drive				
#6	¾ in	Fine	**32MT46**	500
	1 in	Fine	**32MT47**	500
	1 ⅛ in	Fine	**32MT48**	500
	1 ¼ in	Fine	**32MT49**	500
	1 ⅝ in	Fine	**32MT50**	500
	2 in	Fine	**32MT51**	200
	2 ¼ in	Fine	**32MT52**	200
#8	2 ½ in	Fine	**32MT53**	200
	3 in	Fine	**32MT54**	200
#10	1 ½ in	Fine	**32MT55**	200
	3 ½ in	Fine	**32MT56**	200
	4 in	Fine	**32MT57**	100
	4 ½ in	Fine	**32MT58**	100
Self Tapping Point, Phillips Drive				
#6	½ in	Coarse	**32MT16**	500
	¾ in	Coarse	**32MT17**	500
		Coarse	**32MR77**	10000
	1 in	Coarse	**32MT18**	500
	1 ⅛ in	Coarse	**32MT19**	500
	1 ¼ in	Coarse	**32MT20**	500
	1 ½ in	Coarse	**32MT21**	500
	1 ⅝ in	Coarse	**32MT22**	500
	1 ½ in	Coarse	**32MR81**	5000
	1 ¼ in	Coarse	**32MR80**	6000
	1 in	Coarse	**32MR78**	7000
	1 ⅛ in	Coarse	**32MR79**	7000
	1 ¼ in	Fine	**32MT05**	6000
	1 in	Fine	**32MT03**	7000
	1 ⅛ in	Fine	**32MT04**	7000
	2 in	Coarse	**32MT23**	200
	2 ¼ in	Coarse	**32MT24**	200
	2 ½ in	Coarse	**32MT25**	200
	2 in	Coarse	**32MR82**	3000
	2 ½ in	Coarse	**32MR84**	3000
	2 ¼ in	Coarse	**32MR83**	4000
	2 in	Fine	**32MT06**	3400
	2 ¼ in	Fine	**32MT07**	4000
	3 in	Coarse	**32MT26**	200
		Coarse	**32MR85**	3000

Size	L	Thread Type	Item No.	Pkg. Qty.
#7	7⁄16 in	Fine	**32TG65**	500
		Fine	**32TG66**	10000
	1 ¾ in	Coarse	**32MT29**	200
	1 ¼ in	Coarse	**32MT27**	500
	1 ⅝ in	Coarse	**32MT28**	500
	1 ¾ in	Coarse	**32MR88**	4000
	1 ⅝ in	Coarse	**32MR87**	5000
	1 ¼ in	Coarse	**32MR86**	6000
	2 in	Coarse	**32MT30**	200
		Coarse	**32MR89**	4000
#8	¾ in	Coarse	**32MT31**	500
		Coarse	**32MR90**	7000
	1 ½ in	Coarse	**32MT33**	200
	1 ⅝ in	Coarse	**32MT34**	200
	1 in	Coarse	**32MT32**	500
	1 ½ in	Coarse	**32MR92**	4000
	1 in	Coarse	**32MR91**	6000
	2 in	Coarse	**32MT35**	200
	2 ¼ in	Coarse	**32MT36**	200
	2 ½ in	Coarse	**32MT37**	200
	2 ¼ in	Coarse	**32MR94**	3000
	2 in	Coarse	**32MR93**	4000
	2 ½ in	Fine	**32MT08**	2400
	3 in	Coarse	**32MT38**	200
		Coarse	**32MR95**	1200
		Fine	**32MT09**	2400
#10	1 ½ in	Coarse	**32MT39**	200
		Coarse	**32MR96**	3000
		Fine	**32MT10**	3000
	2 in	Coarse	**32MT40**	200
	2 ½ in	Coarse	**32MT41**	200
		Coarse	**32MR98**	2000
	2 in	Coarse	**32MR97**	3000
	3 ¾ in	Coarse	**32MT44**	100
	3 in	Coarse	**32MT42**	200
	3 ½ in	Coarse	**32MT43**	200
	3 in	Coarse	**32MR99**	2000
	3 ½ in	Coarse	**32MT01**	2000
	4 in	Coarse	**32MT45**	100
		Coarse	**32MT02**	1500
Self Drilling Point, Phillips Drive				
#6	1 in	Fine	**32MT59**	500
	1 ⅛ in	Fine	**32MT60**	500
	1 ¼ in	Fine	**32MT61**	500
	1 ⅝ in	Fine	**32MT62**	500
		Fine	**32MT14**	5000
	1 ¼ in	Fine	**32MT13**	6000
	1 in	Fine	**32MT11**	7000
	1 ⅛ in	Fine	**32MT12**	7000
#8	2 ⅜ in	Fine	**32MT63**	200
	3 in	Fine	**32MT64**	200
		Fine	**32MT15**	2400

Hex Head Lag Screw

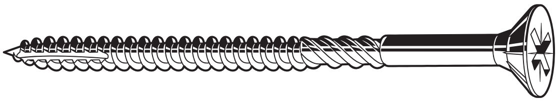
Hex Head Lag Screws

Use for building fences, decks, patios, and outdoor furniture, as well as for other wood-to-wood applications. All meet ASME B18.2.1 standard.

L	Material	Item No.	Pkg. Qty.
Hex Head Lag Screws			
¼ in Size, 7⁄16 in Drive			
1"	18-8 SS Plain	1VB43	100
	Steel Zinc	1LB67	100
	Steel Galv	1LE32	100
	Steel Zinc	32TK29	1500
1¼"	18-8 SS Plain	3AWU2	50
	Steel Zinc	1LB68	100
	Steel Galv	1LE33	100
	Steel Zinc	32TK30	1300
1½"	18-8 SS Plain	3AWY1	50
	Steel Zinc	1LB69	100
	Steel Galv	1LE34	100
	Steel Zinc	32TK31	1200
1¾"	Steel Zinc	1LB70	100
2"	18-8 SS Plain	3AWY4	25
	Steel Zinc	1LB71	100
	Steel Galv	1LE35	100
	Steel Zinc	32TK32	900
2½"	18-8 SS Plain	3AWY5	25
	18-8 SS Plain	32TK85	750
	Steel Zinc	1LB72	100
	Steel Galv	1LE36	100
	Steel Zinc	32TK33	800
	Steel Galv	32TK66	800
3"	18-8 SS Plain	3AWU9	25
	Steel Zinc	1LB73	100
	Steel Galv	1LE37	100
	Steel Zinc	32TK34	600
3½"	18-8 SS Plain	3AWT7	25
	Steel Zinc	1LB74	100
	Steel Galv	1LE38	100
	Steel Zinc	32TK35	500
4"	18-8 SS Plain	3AWU1	25
	Steel Zinc	1LB75	100
	Steel Galv	1LE39	100
	Steel Zinc	32TK36	500
4½"	Steel Zinc	32TK37	400
	Steel Zinc	31JD86	100
5"	Steel Zinc	1LB76	100
	Steel Galv	1LE40	100
	Steel Zinc	32TK38	400
6"	Steel Zinc	1LB77	100
	Steel Zinc	32TK39	300
6½"	Steel Zinc	31JD87	100
5⁄16 in Size, ½ in Drive			
1"	Steel Zinc	1LB78	100
	Steel Galv	1LE42	100
	Steel Zinc	32TK40	900
1¼"	Steel Zinc	1LB79	100
1½"	18-8 SS Plain	3AWT4	50
	Steel Zinc	1LB80	100
	Steel Galv	1LE43	100
	Steel Zinc	32TK41	700
	Steel Galv	32TK67	700
1¾"	Steel Zinc	1LB81	100
2"	18-8 SS Plain	3AWT3	25
	Steel Zinc	1LB82	100
	Steel Galv	1LE44	100
	Steel Zinc	32TK42	500
	Steel Galv	32TK68	600
2½"	18-8 SS Plain	3AWX5	25
	Steel Zinc	1LB83	100
	Steel Galv	1LE45	100
	Steel Zinc	32TK43	400
	Steel Galv	32TK69	500
3"	18-8 SS Plain	3AWT2	25
	Steel Zinc	1LB84	100
	Steel Galv	1LE46	100
	Steel Zinc	32TK44	400
	Steel Galv	32TK70	400
3½"	18-8 SS Plain	3AWX4	25
	Steel Zinc	1LB85	50
	Steel Galv	1LE47	50
	Steel Zinc	32TK45	350
4"	18-8 SS Plain	3AWU5	10
	Steel Zinc	1LB86	50
	Steel Galv	1LE48	50
	Steel Zinc	32TK46	300
4½"	Steel Zinc	32TK47	300
	Steel Zinc	31JD88	50
5"	18-8 SS Plain	3AWX2	10
	Steel Zinc	1LB87	50
	Steel Galv	1LE49	50
	Steel Zinc	32TK48	250
	Steel Galv	32TK71	250
6"	18-8 SS Plain	3AWU4	10
	Steel Zinc	1LB88	50
	Steel Galv	1LE50	50
	Steel Zinc	32TK49	200
⅜ in Size, 9⁄16 in Drive			
1"	Steel Zinc	1LB89	100
1¼"	Steel Zinc	1LB90	100
1½"	18-8 SS Plain	3AWT5	25
	Steel Zinc	1LB91	100
	Steel Galv	1LE51	100
	Steel Zinc	32TK50	500
	Steel Galv	32TK72	500
1¾"	18-8 SS Plain	3AWU6	25
	Steel Zinc	1LB92	100
2"	18-8 SS Plain	3AWT8	25
	18-8 SS Plain	32TK86	375
	Steel Zinc	1LB93	100
	Steel Galv	1LE52	100
	Steel Zinc	32TK51	400
	Steel Galv	32TK73	400
2½"	18-8 SS Plain	1VB63	25
	Steel Zinc	1LB94	50
	Steel Galv	1LE53	50
	Steel Zinc	32TK52	300
	Steel Galv	32TK74	350
3"	18-8 SS Plain	3AWX6	10
	18-8 SS Plain	32TK87	270
	Steel Zinc	1LB95	50
	Steel Galv	1LE54	50
	Steel Zinc	32TK53	250
	Steel Galv	32TK75	300
3½"	18-8 SS Plain	3AWX9	10
	Steel Zinc	1LB96	50
	Steel Galv	1LE55	50
	Steel Zinc	32TK54	250
	Steel Galv	32TK76	250
4"	18-8 SS Plain	3AWU7	10
	Steel Zinc	1LB97	50
	Steel Galv	1LE56	50
	Steel Zinc	32TK55	200
	Steel Galv	32TK77	200
4½"	18-8 SS Plain	3AWU3	10
	Steel Zinc	1LB98	50
	Steel Galv	1LE57	50
	Steel Zinc	32TK56	200
5"	18-8 SS Plain	3AWT9	10
	Steel Zinc	1LB99	50
	Steel Galv	1LE58	50
	Steel Zinc	32TK57	150
	Steel Galv	32TK78	150
6"	18-8 SS Plain	3AWY2	5
	Steel Zinc	1LE10	50
	Steel Galv	1LE59	50
	Steel Zinc	32TK58	150
	Steel Galv	32TK79	150
7"	Steel Zinc	1LE11	50
	Steel Galv	1LE60	50
8"	Steel Zinc	1LE12	50
	Steel Galv	1LE61	50
10"	Steel Galv	31JD96	50
½ in Size, ¾ in Drive			
1½"	Steel Zinc	1LE13	50
	Steel Zinc	32TK59	200
2"	18-8 SS Plain	31JE11	25
	Steel Zinc	1LE14	50
	Steel Galv	1LE62	50
	Steel Zinc	32TK60	200
2½"	18-8 SS Plain	31JE12	25
	Steel Zinc	1LE15	50
	Steel Galv	1LE63	50
	Steel Zinc	32TK61	150
3"	18-8 SS Plain	31JE13	10
	Steel Zinc	1LE16	50
	Steel Galv	1LE64	50
	Steel Galv	32TK80	150
3½"	18-8 SS Plain	31JE14	10
	Steel Zinc	1LE17	25
	Steel Galv	1LE65	25
	Steel Zinc	32TK62	125
	Steel Galv	32TK81	125
4"	18-8 SS Plain	31JE15	10
	Steel Zinc	1LE18	25
	Steel Galv	1LE66	25
	Steel Zinc	32TK63	125
	Steel Galv	32TK82	125
4½"	18-8 SS Plain	3AWY6	5
	Steel Zinc	1LE19	25
	Steel Galv	1LE67	25
5"	18-8 SS Plain	3AWU8	5
	Steel Zinc	1LE20	25
	Steel Galv	1LE68	25
	Steel Zinc	32TK64	100
	Steel Galv	32TK83	100
6"	18-8 SS Plain	3AWT6	5
	Steel Zinc	1LE21	25
	Steel Galv	1LE69	25
	Steel Zinc	32TK65	75
	Steel Galv	32TK84	75
7"	Steel Zinc	1LE22	25
	Steel Galv	1LE70	25
8"	Steel Zinc	1LE23	25
	Steel Galv	1LE71	25
9"	Steel Galv	31JD97	10
10"	Steel Galv	31JD98	10
12"	Steel Galv	31JD99	5
14"	Steel Galv	31JE02	5
⅝ in Size, 15⁄16 in Drive			
3"	Steel Zinc	1LE24	25
	Steel Galv	1LE72	25
3½"	Steel Galv	31JE03	25
4"	Steel Zinc	1LE25	25
	Steel Galv	1LE73	25
5"	Steel Zinc	1LE26	25
	Steel Galv	1LE74	25
6"	Steel Zinc	31JD89	25
	Steel Galv	31JE04	25
7"	Steel Zinc	1LE27	25
	Steel Galv	1LE75	25
8"	Steel Zinc	31JD90	10
	Steel Galv	31JE05	10
10"	Steel Zinc	31JD91	5
	Steel Galv	31JE06	5
¾ in Size, 1 ⅛ in Drive			
3"	Steel Zinc	1LE28	20
4"	Steel Zinc	1LE29	20
	Steel Galv	1LE76	20
5"	Steel Zinc	1LE30	20
6"	Steel Zinc	1LE31	20
	Steel Galv	1LE78	20
7"	Steel Zinc	31JD92	10
	Steel Galv	31JE07	10
8"	Steel Zinc	31JD93	10
	Steel Galv	31JE08	10
10"	Steel Zinc	31JD94	5
	Steel Galv	31JE09	5
12"	Steel Zinc	31JD95	2
	Steel Galv	31JE10	2

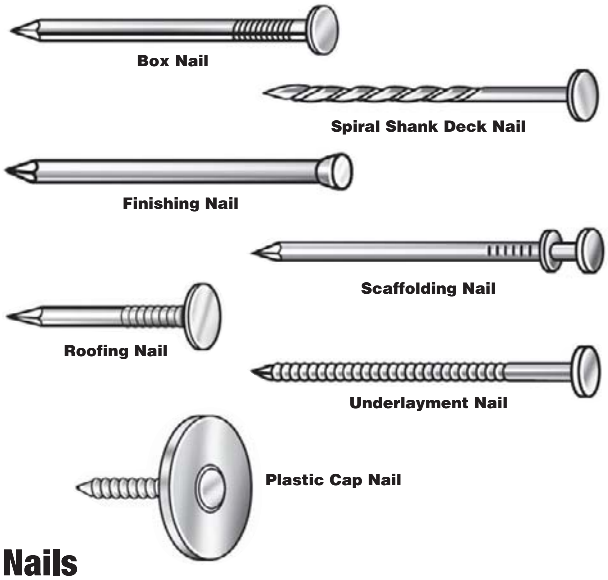
Hex Washer-Head Timber Screws

L	Driver Size	Item No.	Pkg. Qty.
3⁄16 in Size, Hex Washer Head			
316 Stainless Steel Corrugated			
4 in	5⁄16"	20YR72	20
5 in	5⁄16"	20YR73	10
6 in	5⁄16"	20YR74	10
Carbon Steel Double-Barrier Coating			
3 in	5⁄16 in	20YR76	12
	5⁄16 in	20YR77	50
4 in	5⁄16 in	20YR78	12
	5⁄16 in	20YR79	50
6 in	5⁄16 in	20YR80	12
	5⁄16 in	20YR81	50
8 in	5⁄16 in	20YR82	12
	5⁄16 in	20YR83	50
7⁄32 in Size, Flat Head			
4 in	T40	20YR89	50
5 in	T40	20YR90	12
	T40	20YR91	50
6 in	T40	20YR92	12
	T40	20YR93	50
8 in	T40	20YR95	50



Multimaterial Steel Screws

L	Material	Head Type	Item No.
#6 Size, #2 Driver			
¾"	Steel Zinc	Flat	**31JH20**
	Steel Yellow Zinc	Flat	**31JH60**
	Steel Zinc	Pan	**31JH86**
1"	Steel Zinc	Flat	**31JH21**
	Steel Yellow Zinc	Flat	**31JH61**
	305 SS Plain	Flat	**31JH72**
	Steel Zinc	Pan	**31JH87**
1¼"	Steel Zinc	Flat	**31JH22**
	Steel Yellow Zinc	Flat	**31JH62**
	305 SS Plain	Flat	**31JH73**
	Steel Zinc	Pan	**31JH88**
1½"	Steel Zinc	Flat	**31JH23**
	305 SS Plain	Flat	**31JH74**
	Steel Zinc	Pan	**31JH89**
1¾"	Steel Zinc	Flat	**31JH24**
	Steel Zinc	Pan	**31JH90**
2"	Steel Zinc	Flat	**31JH25**
	Steel Zinc	Pan	**31JH91**
#8 Size, #2 Driver			
⅝"	Steel Zinc	Flat	**31JH26**
	Steel Zinc	Pan	**31JH92**
¾"	Steel Zinc	Flat	**31JH27**
	Steel Yellow Zinc	Flat	**31JH63**
	Steel Zinc	Pan	**31JH93**
1"	Steel Zinc	Flat	**31JH28**
	Steel Yellow Zinc	Flat	**31JH64**
	305 SS Plain	Flat	**31JH75**
	Steel Zinc	Pan	**31JH94**
1¼"	Steel Zinc	Flat	**31JH29**
	Steel Yellow Zinc	Flat	**31JH65**
	305 SS Plain	Flat	**31JH76**
	Steel Zinc	Pan	**31JH95**
1½"	Steel Zinc	Flat	**31JH30**
	Steel Yellow Zinc	Flat	**31JH66**
	305 SS Plain	Flat	**31JH77**
	Steel Zinc	Pan	**31JH96**
1¾"	Steel Zinc	Flat	**31JH31**
	Steel Zinc	Pan	**31JH97**
2"	Steel Zinc	Flat	**31JH32**
	Steel Yellow Zinc	Flat	**31JH67**
	305 SS Plain	Flat	**31JH78**
	Steel Zinc	Pan	**31JH98**
2½"	Steel Zinc	Flat	**31JH33**
	305 SS Plain	Flat	**31JH79**
	Steel Zinc	Pan	**31JH99**
3"	305 SS Plain	Flat	**31JH80**
#8 Size, T20 Driver			
1¼"	Steel Yellow Zinc	Flat	**31JJ06**
	305 SS Plain	Flat	**31JJ14**
1½"	Steel Yellow Zinc	Flat	**31JJ07**
	305 SS Plain	Flat	**31JJ15**
2"	Steel Yellow Zinc	Flat	**31JJ08**
	305 SS Plain	Flat	**31JJ16**
2½"	Steel Yellow Zinc	Flat	**31JJ09**
	305 SS Plain	Flat	**31JJ17**
#9 Size, T20 Driver			
2½"	Steel Yellow Zinc	Flat	**31JJ10**
	305 SS Plain	Flat	**31JJ18**
3¼"	Steel Yellow Zinc	Flat	**31JJ11**
	305 SS Plain	Flat	**31JJ19**
#10 Size, #2 Driver			
¾"	Steel Zinc	Flat	**31JH34**
	Steel Zinc	Pan	**31JJ01**
1"	Steel Zinc	Flat	**31JH35**
	Steel Zinc	Pan	**31JJ02**
1¼"	Steel Zinc	Flat	**31JH36**
	Steel Zinc	Pan	**31JJ03**
1½"	Steel Zinc	Flat	**31JH37**
	305 SS Plain	Flat	**31JH81**
	Steel Zinc	Pan	**31JJ04**
2"	Steel Zinc	Flat	**31JH38**
	Steel Yellow Zinc	Flat	**31JH68**
	305 SS Plain	Flat	**31JH82**
	Steel Zinc	Pan	**31JJ05**
2½"	Steel Zinc	Flat	**31JH39**
	305 SS Plain	Flat	**31JH83**
3"	Steel Zinc	Flat	**31JH40**
	Steel Yellow Zinc	Flat	**31JH69**
	305 SS Plain	Flat	**31JH84**
3½"	Steel Zinc	Flat	**31JH41**
	305 SS Plain	Flat	**31JH85**
#10 Size, T20 Driver			
3"	Steel Yellow Zinc	Flat	**31JJ12**
	305 SS Plain	Flat	**31JJ20**
3½"	Steel Yellow Zinc	Flat	**31JJ13**
	305 SS Plain	Flat	**31JJ21**
#12 Size, #3 Driver			
¾"	Steel Zinc	Flat	**31JH42**
1"	Steel Zinc	Flat	**31JH43**
1¼"	Steel Zinc	Flat	**31JH44**
1½"	Steel Zinc	Flat	**31JH45**
1¾"	Steel Zinc	Flat	**31JH46**
2"	Steel Zinc	Flat	**31JH47**
2½"	Steel Zinc	Flat	**31JH48**
3"	Steel Zinc	Flat	**31JH49**
	Steel Yellow Zinc	Flat	**31JH70**
3½"	Steel Zinc	Flat	**31JH50**
#14 Size, #3 Driver			
1"	Steel Zinc	Flat	**31JH51**
1¼"	Steel Zinc	Flat	**31JH52**
1½"	Steel Zinc	Flat	**31JH53**
2"	Steel Zinc	Flat	**31JH54**
2½"	Steel Zinc	Flat	**31JH55**
3"	Steel Zinc	Flat	**31JH56**
	Steel Yellow Zinc	Flat	**31JH71**
3½"	Steel Zinc	Flat	**31JH57**
4"	Steel Zinc	Flat	**31JH58**
4¾"	Steel Zinc	Flat	**31JH59**



Nails

Length Key	3d	4d	6d	8d	10d	12d	16d	20d
X	1¼"	1½"	2"	2½"	3"	3¼"	3½"	4"
Y	—	1⅜"	1⅞"	2⅜"	2⅞"	3⅛"	3¼"	3¾"
Z	—	—	—	2¼"	—	—	3"	—

Package Weight	Length Key	Size	Item No.
Box Nails-Hot Dipped Galvanized - Thinner Gauge Helps Prevent Splitting of Wood			
1 lb	X	4d, 6d, 8d, 10d, 12d, 16d, 20d	**H1777**
5 lb	X	6d, 8d, 10d, 12d, 16d, 20d	**H1778**
30 lb	X	8d, 16d	**H1779**
Common Nails-Bright - For Indoor Framing Projects			
1 lb	X	4d, 6d, 8d, 10d, 12d, 16d, 20d	**H1780**
5 lb	X	6d, 8d, 10d, 12d, 16d, 20d	**H1781**
30 lb	X	8d, 16d	**H1782**
Common Nails-Hot Galvanized - For Outdoor Framing Projects; Use with ACQ Lumber			
1 lb	X	4d, 6d, 8d, 10d, 16d, 20d	**H1786**
5 lb	X	6d, 8d, 10d, 16d, 20d	**H1787**
30 lb	X	8d, 16d	**H1788**
Sprial Shank Deck Nails-Hot Galvanized - Ideal For Use with ACQ Lumber			
1 lb	X	6d, 8d, 10d, 16d	**H1789**
5 lb	X		**H1790**
30 lb	X	8d, 16d	**H1791**
Finishing Nails-For Detailing Projects, Such as Molding, Flooring, Baseboards, Stairs, and Trim			
1 lb	X	4d, 6d, 8d, 10d, 16d	**H1795**
5 lb	X		**H1796**
1 lb	X		**H1797**
Hardwood Trim- Bright, For Interior Trim, Molding, Flooring, and Stairs			
1 lb	X	3d, 4d, 6d, 8d	**H1798**
Sinker Nails - For Indoor Framing; Vinyl Coating Provides Extra Holding Power			
1 lb	Y	4d, 6d, 8d, 10d, 12d, 16d, 20d	**H1783**
5 lb	Y	6d, 8d, 10d, 12d, 16d, 20d	**H1784**
30 lb	Y	8d, 16d	**H1785**
Scaffolding Nails- Recommended for Temporary Construction and Cement Forms			
5 lb	Z	8d, 16d	**H1800**

Package Weight	Length	Item No.
Roofing Nails-Electro Galvanized - For Fastening Asphalt Roof Shingles		
1 lb	2 ½ in, 1 in, 1 ¼ in, 1 ½ in, 2 in	**H1792**
5 lb	2 ½ in, 1 in, 1 ¼ in, 1 ½ in, 2 in	**H1793**
30 lb	1 ¼ in, 1 ½ in	**H1794**
Underlayment Nails-Annular Threads Ensure Maximum Holding Power		
1 lb	1 ⅞ in, 1 ¼ in	**H1799**
Plastic Cap Nails-Annular Threads Secure Anchor Roofing Felt, Sheathing, House Wrap, and Foam Insulation Board		
300 Pk Qty.	1 in, 1 ½ in, 2 in	**H1801**
2000 Pk Qty.	1 in, 1 ½ in, 2 in	**H1802**
Fluted Masonary Nails-Use in Attaching Furring Strips or Fastening Wood to Concrete		
1 lb	3 in, ¾ in, 1 in, 1 ¼ in, 1 ½ in, 2 in, 2 ½ in	**H1803**
5 lb	1 ½ in, 2 ½ in	**H1804**
Drywall Nails-Phosphate Coated, For Attaching Drywall to Wood Studs		
1 lb	1 ⅜ in, 1 ½ in	**H1805**
5 lb	1 ⅜ in, 1 ½ in	**H1806**
Truss Nails-Hot Dipped Galvanized-For Fastening Joist Hangers and Framing Angles		
1 lb	1 ¼ in, 1 ½ in	**H1807**
5 lb	1 ¼ in, 1 ½ in	**H1808**
Smooth Spikes-Bright, Use for Anchoring Landscaping Timbers or Railroad Ties		
5 lbs.	8 in, 10 in, 12 in	**H1809**

Length	Gauge	Shank Type	Application	1 lb Item No.	5 lb Item No.
Roofing Nails 304 Stainless Steel					
1 in	10	Annular-Ring	For Roofing	**20YT16**	—
Roofing Nails Stainless Steel					
1 in	10	Annular-Ring	For Roofing	—	**20YT15**
1 ¼ in	10	Annular-Ring	For Roofing	**20YT18**	**20YT17**
1 ½ in	10	Annular-Ring	For Roofing	**20YT20**	**20YT19**
1 ½ in	12	Annular-Ring	For General Purpose	**20YT10**	—
3 in	9	Annular-Ring	For General Purpose	**20YT06**	**20YT05**

Socket Head Cap Screw Information

Standard
Features a relatively high cylindrical head with a recessed hexagonal socket. Use where maximum tensile strength is essential. See page 2113, 2114, 2115.

Button
Dome-shaped head has wider hex socket and lower profile than standard. Ideal for lighter applications with low limited clearance where loading capacity is not critical. See page 2121.

Flange
Projecting collar around bottom of head acts like a washer, dispersing the load on the bearing surface. Use when a wider bearing surface or a more-finished appearance is desired, and with thinner materials. Go to Grainger.com® and search for "Flange Socket Head Cap Screws."

Flat
Features an 82° countersunk flat head. Flush mounts so moving parts can pass over freely. Not ideal for applications that require optimal antifatigue properties. See page 2119.

Low
Head height is 50% lower than standard size; socket size is smaller. Used in thinner materials and where clearance is too limited to use a full-height cap screw. Cannot withstand the same preloads and standard socket-head cap screws. See page 2121.

Vented
A small hole drilled through the entire length of the cap screw allows gas and fluids to vent. See page 2115.

Socket Head Cap Screw Refills and Assortments

ITW Bee Leitzke · Kerr Lakeside Inc.

No. of Pieces	Head Type	No. of Sizes	Includes	System of Measurement	Item No.
Approved Vendor Steel Black Oxide					
169	Hex Socket	24	(10) Each: M4-0.70 x 10mm, x12mm, x16mm, M5-0.80 x 12mm, x16mm, x20mm, M6-1.00 x 12mm, (8) Each: M5-0.80 x 30mm, M6-1.00 x 16mm, x20mm, x25mm, (6) Each: M6-1.00 x 30mm, x40mm, x45mm, x50mm, M8-1.25 x 20mm, (5) Each: M8-1.25 x 25mm, x30mm, x40mm, x50mm, x60mm, (4) Each: M10-1.50 x 25mm, x30mm, x35mm, and Metal Container	Metric	**53WP99**
Itw Bee Leitzke Alloy Steel Plain					
106	—	9	25 Each 8-32 x ½, 10-24 x ½, 20 Each 10-24 x 1, 10 Each ¼-20 x ½, ¼-20 x 1, 5 Each 5/16-18 x 1, 5/16-18 x 1 ½, 3 Each ⅜-16 x 1, ⅜-16 x 1 ½	Inch	**3KZC9**
Kerr Lakeside Steel Black Oxide					
170	Socket	12	(20) Each: 6-32x1/2 in, 8-32x1/2 in, 10-24x1/2 in, x3/4 in, x1 in, (10) Each: ¼"-20x1/2 in, x3/4 in, x1 in, 5/16"-18x1 in, x1 ½ in, ⅜"-16x1 in, x1 ½ in, And Plastic Case	Inch	**13E070**
300	Button	12	(25) Each: 6-32x3/8 in, x1/2 in, 8-32x3/8 in, x1/2 in, 10-24x3/8 in, x1/2 in, x3/4 in, ¼"-20x1/2 in, x3/4 in, x1 in, 5/16"-18x3/4 in, x1 in, and Plastic Case	Inch	**13E071**
300	Flat	12	(25) Each: 6-32x3/8 in, 6-32x1/2 in, 8-32x3/8 in, 8-32x1/2 in, 10-24x3/8 in, 10-24x1/2 in, 10-24x3/4 in, ¼-20x1/2 in, ¼"-20x3/4 in, ¼"-20x1 in, 5/16"-18x3/4 in, 5/16"-18x1 in, Plastic Case	Inch	**13E072**

Socket-Head Cap Screw Assortments and Refills

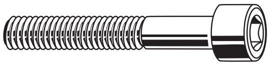
No. of Pieces	Head Type	No. of Sizes	Includes	Item No.
Alloy Steel Chrome				
120	Flat	24	(5) Each: 8-32x1/2 in, x5/8 in, x3/4 in, 10-24x1/2 in, x3/4 in, 10-32x3/8 in, x1/2 in, x3/4 in, ¼"-20x1/2 in, x5/8 in, x3/4 in, x1 in, x1 ¼ in, 5/16"-18x1/2 in, x5/8 in, x3/4 in, x1 in, x1 ¼ in, 5/16"-24x5/8 in, x3/4 in, x1 in, ⅜"-16x3/4 in, x1 in, ⅜-24x1 in, Plastic Container	**4GUX4**
Alloy Steel Polished Chrome				
120	Standard	24	(5) Each: ¼"-28x5/8 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, x1 ½ in, x1 ¾ in, x2 in, x2 ¼ in, 5/16"-24x5/8 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, x1 ½ in, x1 ¾ in, x2 in, x2 ¼ in, ⅜"-24x3/4 in, x1 in, x1 ¼ in, x1 ½ in, x1 ¾ in, x2 in, Plastic Container	**4GUX8**
120	Standard	24	(5) Each: ¼"-20x5/8 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, x1 ½ in, x1 ¾ in, x2 in, x2 ¼ in, 5/16"-18x5/8 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, 1 ½ in, x1 ¾ in, x2 in, x2 ¼ in, ⅜"-16x3/4 in, x1 in, x1 ¼ in, x1 ½ in, x1 ¾ in, x2 in, Plastic Container	**2FUA1**
120	Button	24	(5) Each: 8-32x1/2 in, x5/8 in, x3/4 in, 10-24x1/2 in, 10-32x1/2 in, x3/4 in, x1 in, ¼"-20x3/4 in, x7/8 in, x1 in, ¼"-28x1/2 in, x3/4 in, x1 in, 5/16"-18x1/2 in, x3/4 in, x1 in, 5/16"-24x3/8 in, x1/2 in, x1 in, ⅜"-16x3/4 in, x1 in, ⅜"-24x3/4 in, x1 in, Plastic Container	**2FUH5**

Dia./Thread Size	L	Item No.
Refills for 2FUA1		
¼"-20	⅝ in	**2FUF4**
¼"-20	¾ in	**2FUB3**
¼"-20	⅞ in	**2JGF7**
¼"-20	1 ¾ in	**2FUB4**
¼"-20	1 ½ in	**2FUF5**
¼"-20	1 ¼ in	**2FUL4**
¼"-20	1 in	**2FUP4**
¼"-20	2 ¼ in	**2FUL5**
¼"-20	2 in	**2FUT2**
5/16"-18	⅝ in	**2FUP5**
5/16"-18	¾ in	**2FUT3**
5/16"-18	⅞ in	**2FUP6**
5/16"-18	1 ½ in	**2FUD1**
5/16"-18	1 in	**2FUG9**
5/16"-18	1 ¾ in	**2FUH1**
5/16"-18	1 ¼ in	**2FUL6**
5/16"-18	2 in	**2FUT4**
5/16"-18	2 ¼ in	**2FUT5**
⅜"-16	¾ in	**2FUD2**
⅜"-16	1 in	**2FUL7**
⅜"-16	1 ¾ in	**2FUP7**
⅜"-16	1 ½ in	**2FUT6**
⅜"-16	1 ¼ in	**2JGF9**
⅜"-16	2 in	**2FUL8**

Dia./Thread Size	L	Item No.
Refills for 2FUH5		
#8-32	½ in	**2FUJ6**
#8-32	⅝ in	**2FUL2**
#8-32	¾ in	**2FUP3**
#10-24	½ in	**2JGF6**
#10-32	½ in	**2FUJ7**
#10-32	¾ in	**2FUT1**
#10-32	1 in	**2FUG4**
¼"-20	⅝ in	**2FUA7**
¼"-20	¾ in	**2FUJ8**
¼"-20	⅞ in	**2FUF1**
¼"-20	1 in	**2FUA9**
¼"-28	½ in	**2FUB2**
¼"-28	¾ in	**2FUJ9**
¼"-28	1 in	**2FUG8**
5/16"-18	½ in	**2FUG5**
5/16"-18	¾ in	**2FUG6**
5/16"-18	1 in	**2FUG7**
5/16"-24	⅜ in	**2JGF5**
5/16"-24	½ in	**2FUL3**
5/16"-24	1 in	**2FUF2**
⅜"-16	¾ in	**2FUB1**
⅜"-16	1 in	**2FUA8**
⅜"-24	¾ in	**2FUF3**
⅜"-24	1 in	**2JGF8**

Dia./Thread Size	L	Item No.
Refills for 4GUX4		
#8-32	½ in	**4GUY1**
#8-32	⅝ in	**4GUY2**
#8-32	¾ in	**4GUY3**
#10-24	½ in	**4GUY4**
#10-24	¾ in	**4GUY5**
#10-32	⅜ in	**4GUY6**
#10-32	½ in	**4GUY7**
#10-32	¾ in	**4GUY8**
¼"-20	½ in	**4GUY9**
¼"-20	⅝ in	**4GUZ1**
¼"-20	¾ in	**4GUZ2**
¼"-20	1 in	**4GUZ3**
¼"-20	1 ¼ in	**4GUZ4**
5/16"-18	½ in	**4GUZ5**
5/16"-18	⅝ in	**4GUZ6**
5/16"-18	¾ in	**4GUZ7**
5/16"-18	1 in	**4GUZ8**
5/16"-18	1 ¼ in	**4GUZ9**
5/16"-24	⅝ in	**4GVA1**
5/16"-24	¾ in	**4GVA2**
5/16"-24	1 in	**4GVA3**
⅜"-16	¾ in	**4GVA4**
⅜"-16	1 in	**4GVA5**
⅜"-24	1 in	**4GVA6**

Dia./Thread Size	L	Item No.
Refills for 4GUX8		
¼"-28	⅝ in	**4GVG3**
¼"-28	¾ in	**4GVG4**
¼"-28	⅞ in	**4GVG5**
¼"-28	1 in	**4GVG6**
¼"-28	1 ¼ in	**4GVG7**
¼"-28	1 ½ in	**4GVG8**
¼"-28	1 ¾ in	**4GVG9**
¼"-28	2 in	**4GVH1**
¼"-28	2 ¼ in	**4GVH2**
5/16"-24	⅝ in	**4GVH3**
5/16"-24	¾ in	**4GVH4**
5/16"-24	⅞ in	**4GVH5**
5/16"-24	1 in	**4GVH6**
5/16"-24	1 ¼ in	**4GVH7**
5/16"-24	1 ½ in	**4GVH8**
5/16"-24	1 ¾ in	**4GVH9**
5/16"-24	2 in	**4GVJ1**
5/16"-24	2 ¼ in	**4GVJ2**
⅜"-24	¾ in	**4GVJ3**
⅜"-24	1 in	**4GVJ4**
⅜"-24	1 ¼ in	**4GVJ5**
⅜"-24	1 ½ in	**4GVJ6**
⅜"-24	1 ¾ in	**4GVJ7**
⅜"-24	2 in	**4GVJ8**



Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

Socket-Head Cap Screws

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 1/20 in Drive				
⅛"	1GE84	100	6ZA54	100
	—	—	5TAP8	100
¼"	1GE87	100	6ZA56	100
	—	—	5TAR0	100
⅜"	1GE89	100	6ZA58	100
	—	—	5TAR1	100
½"	1GE90	100	22TW39	100
⅝"	22TW94	100	22TW40	100
¾"	22TW95	100	26KV97	100
1"	22TW96	100	26KV98	100
#1-64 Thread, 1/16 in Drive				
¼"	26KV17	100	26KT25	100
⅜"	26KV19	100	26KT27	100
½"	26KV20	100	26KT28	100
⅝"	26KV21	100	26KT29	100
¾"	26KV22	100	26KT30	100
1"	—	—	26KT31	100
#1-64 Thread, 5/32 in Drive				
1"	29DP85	100	—	—
#1-72 Thread, 1/16 in Drive				
⅛"	1GE94	100	6ZA61	100
	—	—	33W050	10
¼"	1GE96	100	6ZA63	100
	—	—	5TAR2	100
⅜"	1GE98	100	6ZA64	100
	—	—	5TAR3	100
½"	22TW97	100	26KV99	100
⅝"	26KX93	100	26KW01	100
¾"	26KX94	100	26KW02	100
1"	26KX95	100	26KW03	100
#2-56 Thread, 5/64 in Drive				
⅛"	1GU10	100	22TP70	100
¼"	6XA33	100	4XB85	100
	—	—	5TAG2	100
⅜"	6XA35	100	6ZA68	100
	—	—	5TAG3	100
½"	6XA37	100	6ZA70	100
	—	—	5TAG4	100
⅝"	6XA39	100	22TP71	100
¾"	6XA40	100	22TP72	100
⅞"	1GU12	100	22TP73	100
1"	1GU13	100	22TP74	100
1¼"	22TT57	100	—	—
1½"	22TT58	100	—	—
#2-64 Thread, 5/64 in Drive				
⅛"	—	—	26KW04	100
¼"	26KX97	100	26KW06	100
⅜"	26KX99	100	26KW07	100
½"	26KY01	100	26KW08	100
⅝"	26KY02	100	26KW09	100
¾"	26KY03	100	26KW10	100
1"	26KY04	100	26KW11	100
#3-48 Thread, 5/64 in Drive				
⅛"	26KV23	100	26KT32	100
¼"	1GU17	100	6ZA82	100
	—	—	5TAG6	100
⅜"	1GU18	100	6ZA84	100
	—	—	5TAG7	100
½"	1GU19	100	6ZA86	100
	—	—	5TAG8	100
⅝"	22TT59	100	26KT34	100
¾"	22TT60	100	22TP75	100
⅞"	26KV25	100	26KT35	100
1"	22TT61	100	26KT36	100
#3-56 Thread, 5/64 in Drive				
⅛"	—	—	26KW12	100
¼"	26KY06	100	26KW14	100
⅜"	26KY08	100	26KW16	100
½"	26KY09	100	26KW17	100
⅝"	26KY10	100	26KW18	100
¾"	26KY11	100	26KW19	100
1"	26KY12	100	26KW20	100
#4-40 Thread, 3/32 in Drive				
⅛"	1GU23	100	5MXY4	100
3/16"	1GU24	100	6ZA92	100
	—	—	5TAG9	100
¼"	6XA41	100	4XB86	100
	—	—	5TAH0	100
5/16"	6XA42	100	6ZA94	100
	—	—	5TAH1	100
⅜"	5UGX4	100	4XB87	100
	—	—	5TAH2	100
½"	6XA45	100	4XB88	100
	—	—	5TAH3	100
⅝"	6XA47	100	6ZA98	100
	—	—	5TAH4	100
¾"	6XA48	100	4XB89	100
	—	—	5TAH5	100
⅞"	5UGX5	100	6ZB10	100
	—	—	5TAH6	100
1"	1GU25	100	4XB90	100
	—	—	5TAH7	100
1¼"	5WEH2	100	6ZB12	100
	—	—	5TAH8	100
1½"	5WEH3	100	5TAH9	100
1¾"	22TT64	100	22TP76	100
2"	22TT65	100	22TP77	100

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
#4-48 Thread, 3/32 in Drive				
¼"	22TW98	100	26KW23	100
⅜"	22TW99	100	6ZB23	100
½"	22TX01	100	26KW26	100
⅝"	26KY15	100	26KW27	100
¾"	26KY16	100	26KW28	100
⅞"	—	—	26KW29	100
1"	26KY17	100	22TW41	100
#5-40 Thread, 3/32 in Drive				
⅛"	26KV26	100	6ZB27	100
3/16"	22TT66	100	6ZB29	100
¼"	5WEF2	100	6ZB31	100
	—	—	5TAJ0	100
5/16"	26KV27	100	6ZB33	100
⅜"	6XA50	100	6ZB35	100
	—	—	5TAJ1	100
½"	6XA51	100	6ZB37	100
	—	—	5TAJ2	100
⅝"	6XA52	100	6ZB39	100
	—	—	5TAJ3	100
¾"	22TT67	100	6ZB41	100
	—	—	5TAJ4	100
⅞"	26KV28	100	22TP78	100
1"	22TT68	100	5TAJ5	100
1¼"	22TT69	100	22TP79	100
1½"	—	—	22TP80	100
#5-44 Thread, 3/32 in Drive				
¼"	26KY19	100	26KW30	100
⅜"	26KY21	100	26KW31	100
½"	26KY22	100	26KW32	100
⅝"	26KY23	100	26KW33	100
¾"	26KY24	100	26KW34	100
1"	26KY25	100	—	—
#6-32 Thread, 7/64 in Drive				
⅛"	1GU42	50	33W053	100
¼"	6XA54	100	4XB91	100
	—	—	5TAJ6	100
⅜"	6XA56	100	4XB92	100
	—	—	5TAJ7	100
½"	6XA58	100	4XB93	100
	—	—	5TAJ8	100
⅝"	6XA60	100	4XB94	100
	—	—	5TAJ9	100
¾"	6XA61	100	4XB95	100
	—	—	5TAK0	100
⅞"	5UGX6	100	6ZB58	100
	—	—	5TAK1	100
1"	6XA63	100	4XB96	100
	—	—	5TAK2	100
1¼"	6XA64	100	4XB97	100
	—	—	5TAK3	100
1½"	6XA65	100	4XB98	100
	—	—	5TAK4	100
1¾"	23NN74	100	22TP81	100
	—	—	5TAK5	100
2"	23NN75	100	22TP84	100
	—	—	5TAK6	100
2¼"	22TT71	100	26KT44	100
2½"	22TT72	100	22TP82	100
#6-40 Thread, 7/64 in Drive				
¼"	22TX02	100	5MXY6	100
	—	—	5TAR4	100
⅜"	5WEF4	100	5MXY7	100
	—	—	5TAR5	100
½"	22TX03	100	6ZB74	100
	—	—	5TAR6	100
⅝"	26KY28	100	6ZB76	100
	—	—	5TAR7	100
¾"	26KY29	100	5MXY8	100
	—	—	5TAR8	100
⅞"	—	—	5MXY9	100
1"	26KY30	100	26KW38	100
	—	—	33W055	100
1¼"	26KY31	100	33W056	100
1½"	—	—	33W057	100
2"	—	—	33W058	50
#8-32 Thread, 9/64 in Drive				
⅛"	1GU49	25	5MXZ1	100
¼"	6XA70	100	4XB99	100
	—	—	5MHZ3	100
⅜"	6XA72	100	4XE10	100
	—	—	5MHZ4	100
½"	5UGX8	100	4XE11	100
	—	—	5MHZ5	100
⅝"	6XA76	100	4XE12	100
	—	—	5MHZ6	100
¾"	6XA77	100	4XE13	100
	—	—	5MHZ7	100
⅞"	6XA78	100	6ZB93	100
	—	—	5MHZ8	100
1"	6XA79	100	4XE14	100
	—	—	5MHZ9	100
1¼"	5UGZ1	100	4XE15	100
	—	—	5MJE3	100
1½"	6XA83	100	4XE16	100
	—	—	5MJE4	100
1¾"	23NN76	100	4XE17	100
2"	23NN77	100	5TAK8	100

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
2¼"	22TT75	100	22TP85	100
2½"	22TT76	100	4XE18	100
	—	—	5TAK9	100
2¾"	29DP86	100	22TP87	100
3"	22TT77	100	22TP88	100
3½"	1GU51	1	6ZE13	25
#8-36 Thread, 9/64 in Drive				
¼"	26KY32	100	26KW39	100
⅜"	22TX04	100	5MXZ2	100
	—	—	5TAR9	100
½"	22TX05	100	5MXZ3	100
	—	—	5TAT0	100
⅝"	26KY33	100	26KW40	100
¾"	22TX06	100	6ZE19	100
	—	—	5TAT1	100
1"	26KY35	100	22TW42	100
1¼"	26KY36	100	26KW42	100
1½"	—	—	22TW43	100
#10-24 Thread, 5/32 in Drive				
¼"	6XA89	100	4XE19	100
	—	—	5TAL0	100
⅜"	6XA91	100	4XE20	100
	—	—	5MJA0	100
7/16"	6XA92	100	26KT48	100
½"	6XA93	100	4XE21	100
	—	—	5MJA1	100
⅝"	6XA94	100	4XE22	100
	—	—	5MJA2	100
¾"	6XA95	100	4XE23	100
	—	—	5MJA3	100
⅞"	5UGY0	100	6ZE27	100
	—	—	5MJA4	100
1"	—	—	4XE24	100
	—	—	5MJA5	100
1¼"	6XA98	100	4XE25	100
	—	—	5MJE5	100
1½"	6XB10	100	4XE26	100
	—	—	5MJE6	100
1¾"	6XB11	100	4XE27	100
	—	—	5MJE7	100
2"	23NN78	100	4XE28	100
	—	—	5MJE8	100
2¼"	22TT79	100	5TAL1	100
2½"	23NN79	100	5TAL2	100
2¾"	—	—	5PPR5	100
	—	—	33W059	100
3"	23NN80	100	5TAL3	100
3½"	22TT80	100	22TP94	100
4"	22TT81	100	22TP86	100
5"	1GU58	1		
6"	1GU59	1	4KGW6	5
#10-32 Thread, 5/32 in Drive				
¼"	6XB17	100	4XU39	100
5/16"	6XB18	100	6ZE46	100
	—	—	33W060	100
⅜"	6XB19	100	1GA16	25
	—	—	5MJA6	100
½"	6XB21	100	1GA17	25
	—	—	5MJA7	100
⅝"	6XB23	100	1GA18	25
	—	—	5MJA8	100
¾"	6XB24	100	5PPG8	100
	—	—	5MJA9	100
⅞"	5UGY1	100	1GA20	25
	—	—	5MJC0	100
1"	6XB26	100	5MYL1	100
	—	—	5MJC1	100
1¼"	6XB27	100	4XU46	100
	—	—	5MJE9	100
1½"	6XB29	100	4XU47	100
	—	—	5MJF0	100
1¾"	6XB30	100	4XU48	100
	—	—	5MJF1	100
2"	23NN89	100	4XU49	100
	—	—	5MJF2	100
2¼"	23NN90	100	5TAT2	100
2½"	23NN91	100	5TAT3	100
2¾"	22TX09	100	22TW53	100
3"	23NN92	100	5TAT4	100
3¼"	22TX10	100	26KW45	100
3½"	22TX11	100	22TW55	100
4"	22TX12	100	22TW24	100
4½"	1GU66	1	—	—
5"	1GU67	1	—	—
6"	1GU68	1	—	—
#12-24 Thread, 5/32 in Drive				
⅜"	1GU69	10	6ZE62	50
½"	1GU70	10	6ZE64	50
¾"	1GU71	10	—	—
1"	1GU72	10	6ZE66	25
1¼"	5WEF6	5	6ZE68	25
1½"	5WEJ2	5	6ZE70	25
2"	—	—	6ZE73	25
¼"-20 Thread, 3/16 in Drive				
¼"	5WEF7	50	4XE29	100
	—	—	5TAL4	100
⅜"	6XB37	100	4XE30	100
	—	—	5MJC2	100

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
½"	6XB39	100	4XE31	100
	—	—	5MJC3	100
⅝"	6XB40	100	4XE32	100
	—	—	5MJC4	100
¾"	6XB41	100	4XE33	100
	—	—	5MJC5	100
⅞"	6XB42	100	4XE34	100
	—	—	5MJC6	100
1"	6XB43	100	4XE35	100
	—	—	5MJC7	100
1¼"	6XB44	100	4XE36	100
	—	—	5MJC8	100
1½"	22TT86	100	4XE37	100
	—	—	5MJF3	100
1¾"	22TT87	100	5MYL3	100
	—	—	5MJF4	100
2"	22TT88	50	22TP97	50
	—	—	5MJF5	100
2¼"	22TT89	50	22TP98	50
	—	—	5WZF1	100
2½"	22TT90	50	22TP99	50
	—	—	5WZF2	100
2¾"	23NN86	50	22TR01	50
	—	—	5MJF6	100
3"	22TT91	25	22TR02	25
	—	—	5MJF7	100
3¼"	22TT92	25	5MYC1	25
	—	—	5TAL5	100
3½"	22TT93	25	6ZE79	25
	—	—	5WZF3	50
3¾"	22TT94	25	22TR05	25
4"	22TT95	25	6ZE83	25
	—	—	5TAL6	100
4½"	22TT96	25	22TR07	25
5"	22TT97	25	22TR08	25
	—	—	33W063	10
5½"	1GU78	1	5MYC2	5
6"	1GU79	1	33W064	10
	—	—	6ZE93	5
¼"-28 Thread, 3/16 in Drive				
¼"	1GU83	10	5MXZ5	50
	—	—	5RVG9	100
⅜"	22TX13	100	6ZE97	100
	—	—	5MJC9	100
½"	22TX14	100	4XU50	100
	—	—	5MJD0	100
⅝"	22TX15	100	4XU51	100
	—	—	5MJD1	100
¾"	22TX16	100	4XU52	100
	—	—	5MJD2	100
⅞"	22TX17	100	5MJD3	100
1"	22TX18	100	5MYL2	100
	—	—	5MJD4	100
1¼"	22TX19	100	4XU54	100
	—	—	5MJD5	100
1½"	22TX20	100	4XU55	100
	—	—	5MJF8	100
1¾"	22TX21	100	1GA43	25
	—	—	5MJF9	100
2"	22TX22	50	22TW58	50
	—	—	5MJG0	100
2¼"	22TX23	50	22TW59	50
	—	—	5MJG1	100
2½"	22TX24	50	22TW60	50
	—	—	33W065	100
2¾"	—	—	22TW61	50
3"	22TX25	25	5MYC5	25
3¼"	—	—	26KW49	25
3½"	22TX26	25	6ZU31	25
4"	22TX27	25	22TW64	25
4½"	—	—	26KW50	25
5"	—	—	26KW51	25
5/16"-18 Thread, ¼ in Drive				
⅜"	22TT98	100	6ZU34	100
	—	—	5TAL7	100
½"	6XB56	100	4XE44	100
	—	—	40P215	100
⅝"	22TT99	100	4XE45	100
	—	—	40P216	100
¾"	22TU01	100	4XE46	100
	—	—	40P217	100
⅞"	22TU02	100	4XE47	100
	—	—	40P218	100
1"	22TU03	50	22TP89	50
	—	—	40P219	100
1¼"	22TU04	50	22TP90	50
	—	—	40P220	100
1½"	22TU05	50	22TP91	50
	—	—	40P221	100
1¾"	22TU06	50	22TR09	50
	—	—	40P222	100
2"	22TU07	50	22TR10	50
	—	—	40P223	100
2¼"	22TU08	25	22TR11	25
	—	—	40P224	100
2½"	22TU09	25	22TR12	25
	—	—	40P225	100

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CONTINUED

Socket-Head Cap Screws

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
2¾"	22TU10	25	22TR13	25
	—	—	5MJG2	100
3"	22TU11	25	22TR14	25
	—	—	5MJG3	100
3¼"	22TU12	25	6ZU37	25
	—	—	5MJG4	50
3½"	22TU13	25	22TR16	25
	—	—	5MJG5	50
3¾"	22TU14	25	22TR17	25
	—	—	33W066	50
4"	22TU15	10	22TR18	10
	—	—	5TAL8	50
4½"	22TU16	10	5MYC6	10
5"	22TU17	10	22TR20	10
5½"	29DP87	10	22TR21	10
6"	22TU18	10	22TR22	10
5/16"-24 Thread, ¼ in Drive				
⅜"	26KY39	100	26KW52	100
½"	22TX28	100	4XU56	100
	—	—	5TAT5	100
⅝"	26KY40	100	6ZU58	100
¾"	22TX29	100	4XU57	100
⅞"	22TX30	100	6ZU61	100
1"	22TX31	50	22TW30	50
	—	—	5RVH3	100
1¼"	22TX32	50	22TW34	50
	—	—	5RVH4	100
1½"	22TX33	50	22TW44	50
	—	—	5RVH5	100
1¾"	22TX34	50	6ZU71	50
	—	—	5RVH6	100
2"	22TX35	50	5MYC8	50
2¼"	22TX36	25	22TW45	25
	—	—	5RVH8	100
2½"	22TX37	25	22TW46	25
	—	—	5RVH9	100
2¾"	22TX38	25	22TW65	25
	—	—	33W068	100
3"	22TX39	25	22TW66	25
3¼"	—	—	26KW53	25
3½"	22TX40	25	22TW67	25
4"	22TX41	10	6ZU93	10
4½"	—	—	26KW54	10
5"	—	—	26KW55	10
6"	—	—	26KW57	10
⅜"-16 Thread, 5/16 in Drive				
½"	22TU19	50	22TR23	50
	—	—	5TAL9	100
⅝"	22TU20	50	22TR24	50
	—	—	5TAN0	100
¾"	22TU21	50	22TR25	50
	—	—	5TAN1	100
⅞"	22TU22	50	22TR26	50
	—	—	5TAN2	100
1"	22TU23	50	22TR27	50
	—	—	5TAN3	100
1⅛"	22TU24	50	22TR28	50
	—	—	33W069	100
1¼"	22TU25	50	22TR29	50
	—	—	5TAN4	100
1½"	22TU26	25	22TR31	25
	—	—	5TAN5	100
1¾"	22TU27	25	22TP92	25
	—	—	5TAN6	50
2"	22TU28	25	22TR32	25
	—	—	5TAN7	50
2¼"	22TU29	25	22TR33	25
	—	—	5TAN8	50
2½"	22TU30	25	22TR34	25
	—	—	5WZG5	50
2¾"	22TU31	25	22TR35	25
	—	—	5MJG6	50
3"	5UHD0	10	22TR36	10
	—	—	5MJG7	50
3¼"	22TU32	10	22TR37	10
	—	—	5MJG8	50
3½"	22TU33	10	22TR38	10
	—	—	5MJG9	50
3¾"	22TU34	10	22TR39	10
4"	22TU35	10	22TR40	10
	—	—	5TAN9	50
4½"	22TU36	10	22TR41	10
	—	—	5TAP0	50
5"	22TU37	10	22TR42	10
	—	—	5TAP1	50
5½"	22TU38	10	22TR43	10
	—	—	33W070	50
6"	22TU39	10	22TR44	10
	—	—	5TAP2	50
⅜"-24 Thread, 5/16 in Drive				
½"	22TX42	50	6ZY36	50
	—	—	5TAT6	100
⅝"	22TX43	50	6ZY39	50
	—	—	5TAT7	100
¾"	22TX44	50	6ZY42	50
	—	—	5TAT8	100
⅞"	26KY41	50	6ZY46	50
	—	—	5TAT9	100
1"	22TX45	50	22TW69	50
	—	—	5TAU0	100
1¼"	22TX46	50	6ZY49	50
	—	—	5TAU1	100
1½"	22TX47	25	22TW70	25
	—	—	5TAU2	100
1¾"	22TX48	25	22TW47	25
	—	—	5TAU3	50
2"	22TX49	25	22TW71	25
	—	—	5TAU4	50
2¼"	26KY42	25	22TW72	25
	—	—	5RVJ0	50
2½"	22TX50	25	22TW73	25
	—	—	5RVJ1	50
2¾"	26KY43	25	22TW74	25
3"	22TX51	10	5MYD5	10
	—	—	5MJH0	50
3½"	22TX52	10	1HLH4	10
	—	—	33W071	50
4"	22TX53	10	22TW77	10
4½"	22TX54	10	22TW78	10
5"	22TX55	10	22TW79	10
5½"	—	—	22TW80	10
6"	22TX56	10	26KW62	10
7/16"-14 Thread, ⅜ in Drive				
½"	—	—	6ZY71	25
⅝"	—	—	6ZY74	25
¾"	22TU42	25	22TR47	25
	—	—	5TAP3	100
⅞"	—	—	22TR48	25
1"	22TU43	25	22TR49	25
	—	—	5WZG7	100
1¼"	22TU44	25	22TR50	25
	—	—	5WZG8	50
1½"	22TU45	25	22TR51	25
	—	—	5WZG9	50
1¾"	22TU46	10	22TR52	10
	—	—	5WZH0	50
2"	22TU47	10	6ZY89	10
	—	—	5WZH1	50
2¼"	26KV34	10	6ZY92	10
	—	—	5WZH2	50
2½"	22TU48	10	6ZY95	10
	—	—	5WZH3	50
2¾"	—	—	6ZY98	10
	—	—	5RVA4	25
3"	22TU49	10	3MB66	10
	—	—	5RVA5	25
3¼"	—	—	22TP93	5
3½"	22TU50	5	22TR03	5
	—	—	5TAP4	25
4"	22TU51	5	22TR04	5
	—	—	5TAP5	25
4½"	—	—	22TR15	5
5"	—	—	22TR19	5
5½"	—	—	26KT61	5
6"	—	—	26KT62	5
7/16"-20 Thread, ⅜ in Drive				
½"	—	—	26KW63	25
⅝"	—	—	26KW64	25
¾"	—	—	26KW65	25
⅞"	—	—	26KW66	25
1"	22TX57	25	3MB89	25
1¼"	22TX58	25	3MB93	25
1½"	22TX59	25	3MB97	25
	—	—	5RVJ4	50
1¾"	—	—	26KW67	10
	—	—	33W076	50
2"	22TX60	10	3KB78	10
2½"	—	—	22TW82	10
	—	—	33W077	50
3"	—	—	3KE73	10
	—	—	33W078	25
3½"	—	—	22TW48	5
4"	—	—	26KW68	5
5"	—	—	26KW69	5
6"	—	—	26KW70	5
½"-13 Thread, ⅜ in Drive				
½"	22TU52	10	22TR45	10
	—	—	5TAP6	50
⅝"	1GY67	10	22TR46	10
	—	—	5TAP7	50
¾"	24T805	10	22TR54	10
	—	—	5RVA6	50
⅞"	6XB93	10	22TR55	10
1"	6XB94	10	29DU64	10
	—	—	5RVA8	50
1¼"	6XB95	10	22TR57	10
	—	—	5RVA9	50
1½"	6XB96	10	22TR59	10
	—	—	5RVC0	50
1¾"	6XB97	10	22TR60	10
	—	—	5RVC1	50
2"	22TU53	10	22TR61	10
	—	—	5RVC2	50
2¼"	22TU54	10	22TR62	10
	—	—	5RVC3	25
2½"	22TU55	10	22TR63	10
	—	—	5RVC4	25
2¾"	22TU56	10	22TR64	10
	—	—	5MJH1	25
3"	6XE12	5	29DU65	5
	—	—	5MJH2	25
3¼"	5WEE1	5	22TR66	5
	—	—	5RVC5	25
3½"	6XE14	5	22TR67	5
	—	—	5RVC6	25
4"	6XE15	5	22TR69	5
	—	—	5RVC7	25
4½"	5WEE2	5	22TR70	5
	—	—	5RVC8	25
5"	5WEE3	5	22TR71	5
	—	—	5RVC9	25
5½"	6XE18	5	22TR72	5
	—	—	5MJH3	25
6"	5WEE4	5	22TR73	5
	—	—	5RVD0	25
½"-20 Thread, ⅜ in Drive				
½"	—	—	22TW83	10
⅝"	—	—	26KW71	10
¾"	22TX61	10	22TW84	10
⅞"	—	—	26KW72	10
1"	22TX62	10	3KU67	10
	—	—	5RVJ6	50
1¼"	22TX63	10	3FY64	10
	—	—	5RVJ7	50
1½"	22TX64	10	3FY69	10
	—	—	5RVJ8	50
1¾"	22TX65	10	3FY74	10
	—	—	5RVJ9	50
2"	22TX66	10	3FY78	10
	—	—	5RVK0	50
2¼"	26KY44	10	3FA70	10
	—	—	5RVK1	25
2½"	22TX67	10	5MYD7	10
	—	—	5RVK2	25
3"	22TX68	5	22TW50	5
	—	—	5RVK3	25
3½"	22TX69	5	4FA69	5
4"	22TX70	5	3WB77	5
4½"	22TX71	5	3WE12	5
5"	22TX72	5	3WE46	5
5½"	—	—	3XA98	5
6"	22TX73	5	22TW90	5
9/16"-12 Thread, 7/16 in Drive				
1"	29DP88	10	26KT64	10
1½"	29DP89	10	22TR76	10
2"	—	—	26KT67	5
2½"	29DP91	5	26KT68	5
3"	29DP92	5	26KT70	5
3½"	—	—	22TR78	5
4"	—	—	26KT71	5
4½"	—	—	26KT72	5
5"	—	—	26KT73	5
5½"	—	—	26KT74	5
6"	—	—	26KT75	5
9/16"-18 Thread, 7/16 in Drive				
1"	—	—	26KW79	10
1¼"	—	—	26KW80	10
1½"	—	—	26KW81	10
1¾"	—	—	26KW82	10
2"	—	—	26KW83	5
2¼"	—	—	26KW84	5
2½"	—	—	26KW85	5
3"	—	—	26KW86	5
4"	—	—	26KW87	5
4½"	—	—	26KW88	5
5"	—	—	26KW89	5
5½"	—	—	26KW90	5
6"	—	—	26KW91	5
⅝"-11 Thread, ½ in Drive				
⅝"	—	—	26KT80	10
¾"	—	—	26KT81	10
⅞"	—	—	26KT82	10
1"	22TU61	10	22TR79	10
	—	—	5RVD3	25
1¼"	22TU62	10	22TR80	10
	—	—	5RVD4	25
	—	—	5RVK5	25
1½"	22TU63	10	22TR81	10
	—	—	5RVD5	25
1¾"	22TU64	10	22TR82	10
	—	—	5RVD6	25
2"	6XE24	5	29DU66	5
	—	—	5RVD7	25
2¼"	5WEE5	5	26KT84	5
	—	—	5RVD8	25
2½"	6XE26	5	22TR83	5
	—	—	5RVD9	25
2¾"	6XE27	5	22TR84	5
	—	—	5RVE0	25
3"	6XE28	5	22TR85	5
	—	—	5RVE1	25
3¼"	—	—	22TR86	5
	—	—	5RVE2	25
3½"	6XE29	5	22TR87	5
	—	—	5RVE3	25
3¾"	—	—	26KT85	5
	—	—	33W081	25
4"	6XE30	5	22TR88	5
	—	—	5RVE4	25
4¼"	—	—	26KT86	5
4½"	5WEE6	5	22TR89	5
	—	—	5RVE5	25
5"	6XE32	5	22TR90	5
	—	—	5MJH5	25
5½"	6XE33	5	22TR91	5
	—	—	5RVE6	10
6"	6XE34	5	22TR92	5
	—	—	5RVE7	10
⅝"-18 Thread, ½ in Drive				
1"	—	—	22TW91	10
	—	—	5RVK4	25
1¼"	—	—	26KW92	10
1½"	22TX74	10	26KW93	10
	—	—	5RVK6	25
1¾"	22TX75	10	26KW94	10
	—	—	5RVK7	25
2"	22TX76	5	26KW95	5
	—	—	5RVK8	25
2¼"	—	—	26KW96	5
	—	—	33W082	25
2½"	—	—	26KW97	5
	—	—	5RVK9	25
2¾"	—	—	26KW98	5
3"	—	—	26KW99	5
3½"	—	—	26KX02	5
4"	—	—	26KX03	5
4½"	—	—	26KX04	5
5"	—	—	22TW92	5
5½"	—	—	26KX05	5
6"	—	—	26KX06	5
¾"-10 Thread, ⅝ in Drive				
1"	22TU67	5	26KT92	5
1¼"	6XE35	5	22TR97	5
	—	—	5MJD6	25
1½"	6XE36	5	22TR98	5
	—	—	5MJD7	25
1¾"	5UGY7	5	22TR99	5
	—	—	5MJD8	25
2"	5UGY8	5	22TT01	5
	—	—	5MJD9	25
2¼"	6XE39	5	22TT02	5
	—	—	5MJE0	25
2½"	5WEE7	5	22TT03	5
	—	—	5MJE1	25
2¾"	6XE41	5	22TT04	5
	—	—	5MJE2	25
3"	6XE42	5	22TT05	5
	—	—	5MJH8	25
3¼"	—	—	22TT06	5
	—	—	5MJH9	25
3½"	5WEE8	5	22TT07	5
	—	—	5MJJ0	25
3¾"	—	—	1HLJ3	5
	—	—	33W083	25
4"	5WEE9	5	22TT08	5
	—	—	5MJJ1	25
4½"	6XE45	5	22TT09	5
	—	—	5MJJ2	25
5"	6XE46	5	22TT10	5
	—	—	5MJJ3	25
5½"	—	—	22TT11	5
	—	—	5RVE9	10
6"	5WEF0	5	22TT12	5
	—	—	5RVF0	10
¾"-16 Thread, ⅝ in Drive				
1¼"	—	—	26KX10	5
1½"	—	—	26KX11	5
1¾"	—	—	26KX12	5
2"	—	—	22TW93	5
2¼"	—	—	26KX13	5
2½"	—	—	26KX14	5
2¾"	—	—	26KX15	5
3"	—	—	26KX16	5
	—	—	33W084	25
3½"	—	—	26KX18	5
4"	—	—	26KX19	5
4½"	—	—	26KX20	5
5"	—	—	26KX21	5
5½"	—	—	26KX22	5
6"	—	—	26KX23	5
⅞"-9 Thread, ¾ in Drive				
1½"	—	—	26KT98	5
1¾"	—	—	26KT99	5
2"	26KV36	5	22TT22	5
	—	—	5RVF2	10
2¼"	26KV37	5	22TT23	5
	—	—	5RVF3	10
2½"	26KV38	5	22TT24	5
	—	—	5RVF4	10
2¾"	26KV39	5	22TT25	5

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Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 6" are available at Grainger.com®; search for "hex head cap screws."

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Socket-Head Cap Screws

Length	18-8 Stainless Steel Plain Item No.	18-8 Stainless Steel Plain Pkg. Qty.	Steel Black Oxide Item No.	Steel Black Oxide Pkg. Qty.
3"	**26KV40**	5	**22TT26**	5
	—	—	**5RVF6**	10
3½"	**26KV41**	5	**22TT28**	5
	—	—	**5MJJ6**	10
4"	**26KV42**	5	**22TT29**	5
	—	—	**5MJJ7**	10
4½"	**26KV43**	5	**22TT30**	5
	—	—	**5MJJ8**	10
5"	**26KV44**	5	**22TT31**	5
	—	—	**5MJJ9**	10
5½"	—	—	**22TT32**	5
	—	—	**5MJK0**	10
6"	**26KV45**	5	**22TT33**	1
	—	—	**5MJK1**	10
⅞"-14 Thread, ¾ in Drive				
2"	—	—	**26KX27**	5
2¼"	—	—	**26KX28**	5
2½"	—	—	**26KX29**	5
2¾"	—	—	**26KX30**	5
3"	—	—	**26KX31**	5
3¼"	—	—	**26KX32**	5
3½"	—	—	**26KX33**	5
4"	—	—	**26KX34**	5
4½"	—	—	**26KX35**	5
5"	—	—	**26KX36**	5
6"	—	—	**26KX37**	1
1"-8 Thread, ¾ in Drive				
1½"	—	—	**22TT37**	5
2"	**22TU70**	5	**22TT38**	5
	—	—	**5RVF9**	10
2¼"	**26KV49**	5	**22TT39**	5
	—	—	**5RVG0**	10
2½"	**22TU71**	5	**22TT40**	5
	—	—	**5RVG1**	10
2¾"	**26KV50**	5	**22TT41**	5
	—	—	**5RVG2**	10
3"	**22TU72**	5	**22TT42**	5
	—	—	**5RVG3**	10
3¼"	—	—	**22TT43**	5
	—	—	**5RVG4**	10
3½"	**26KV51**	5	**22TT44**	5
	—	—	**5RVG5**	10
4"	**22TU73**	5	**22TT45**	5
	—	—	**5RVG6**	10
4½"	**26KV52**	5	**22TT46**	5
	—	—	**5RVG7**	10
5"	**26KV53**	5	**22TT47**	5
	—	—	**5MJK4**	10
5½"	—	—	**22TT48**	5
	—	—	**5MJK5**	10
6"	**26KV54**	5	**22TT49**	1
	—	—	**5MJK6**	10
1"-14 Thread, ¾ in Drive				
2"	—	—	**26KX40**	5
2½"	—	—	**26KX42**	5
3"	—	—	**26KX43**	5
3½"	—	—	**26KX44**	5
4"	—	—	**26KX45**	5
4½"	—	—	**26KX46**	5
5"	—	—	**26KX47**	5
6"	—	—	**26KX48**	1
1⅛"-7 Thread, ⅞ in Drive				
2"	—	—	**26KU18**	1
2½"	—	—	**26KU19**	1
3"	—	—	**26KU20**	1
3½"	—	—	**26KU21**	1
4"	—	—	**26KU22**	1
4½"	—	—	**26KU23**	1
5"	—	—	**26KU24**	1
5½"	—	—	**26KU25**	1
6"	—	—	**26KU26**	1
1⅛"-12 Thread, ⅞ in Drive				
3"	—	—	**26KX50**	1
3½"	—	—	**26KX51**	1
4"	—	—	**26KX52**	1
4½"	—	—	**26KX53**	1
5"	—	—	**26KX54**	1
6"	—	—	**26KX55**	1
1¼"-7 Thread, ⅞ in Drive				
2"	—	—	**26KU37**	1
2½"	—	—	**26KU39**	1
3"	—	—	**5PNC2**	1
	—	—	**4XU33**	1
3½"	—	—	**5PNC3**	1
	—	—	**1AU77**	1
4"	—	—	**5PNC6**	1
	—	—	**4XU34**	1
4½"	—	—	**5PNC7**	1
	—	—	**4XU35**	1
5"	—	—	**26KU42**	1
5½"	—	—	**1AU83**	1
	—	—	**33W091**	1
6"	—	—	**26KU43**	1
1¼"-12 Thread, ⅞ in Drive				
2"	—	—	**26KX58**	1
2½"	—	—	**26KX59**	1
3"	—	—	**26KX60**	1
3½"	—	—	**26KX61**	1
4"	—	—	**26KX62**	1
4½"	—	—	**26KX63**	1
5"	—	—	**26KX64**	1
5½"	—	—	**26KX65**	1
6"	—	—	**26KX66**	1
1⅜"-6 Thread, 1 in Drive				
3"	—	—	**26KU52**	1
3½"	—	—	**26KU53**	1
4"	—	—	**26KU54**	1
4½"	—	—	**26KU55**	1
5"	—	—	**26KU56**	1
5½"	—	—	**26KU57**	1
6"	—	—	**26KU58**	1
1⅜"-12 Thread, 1 in Drive				
3"	—	—	**26KX72**	1
3½"	—	—	**26KX73**	1
4"	—	—	**26KX74**	1
4½"	—	—	**26KX75**	1
5"	—	—	**26KX76**	1
5½"	—	—	**26KX77**	1
6"	—	—	**26KX78**	1
1½"-6 Thread, 1 in Drive				
2½"	—	—	**26KU68**	1
3"	—	—	**26KU70**	1
3½"	—	—	**1HLH1**	1
4"	—	—	**5PNC5**	1
	—	—	**1HLH2**	1
4½"	—	—	**5PND6**	1
5"	—	—	**5PND7**	1
5½"	—	—	**5PND8**	1
6"	—	—	**5PND9**	1
1½"-12 Thread, 1 in Drive				
3"	—	—	**26KX82**	1
3½"	—	—	**26KX83**	1
4"	—	—	**26KX84**	1
4½"	—	—	**26KX85**	1
5"	—	—	**26KX86**	1
5½"	—	—	**26KX87**	1
6"	—	—	**26KX88**	1
1¾"-5 Thread, 1 ¼ in Drive				
3"	—	—	**26KU82**	1
3½"	—	—	**26KU83**	1
4"	—	—	**26KU84**	1
4½"	—	—	**26KU85**	1
5"	—	—	**26KU86**	1
5½"	—	—	**26KU87**	1
6"	—	—	**26KU88**	1
2"-4-1/2 Thread, 1 ½ in Drive				
4"	—	—	**26KU99**	1
4½"	—	—	**26KV01**	1
5"	—	—	**26KV02**	1
5½"	—	—	**26KV03**	1
6"	—	—	**26KV04**	1

Self-Locking Socket-Head Cap Screws

Length	Material Grade	Item No.	Pkg. Qty.
#4-40 Thread, ³⁄₃₂ in Drive			
¼"	18-8	**1FY40**	50
	Alloy Steel	**1FY81**	25
⅜"	18-8	**1FY41**	50
	Alloy Steel	**1FY82**	25
½"	18-8	**1FY42**	50
	Alloy Steel	**1FY83**	25
#5-40 Thread, ³⁄₃₂ in Drive			
⅜"	Alloy Steel	**1FY84**	25
½"	Alloy Steel	**1FY85**	25
#6-32 Thread, ⁷⁄₆₄ in Drive			
¼"	18-8	**1FY43**	50
	Alloy Steel	**1FY86**	25
⅜"	18-8	**1FY44**	50
	Alloy Steel	**1FY87**	25
½"	18-8	**1FY45**	50
	Alloy Steel	**1FY88**	25
⅝"	18-8	**1FY46**	50
	Alloy Steel	**1FY89**	25
¾"	18-8	**1FY47**	50
	Alloy Steel	**1FY90**	25
⅞"	Alloy Steel	**1FY91**	25
1"	Alloy Steel	**1FY92**	25
#8-32 Thread, ⁹⁄₆₄ in Drive			
¼"	18-8	**1FY48**	50
⅜"	18-8	**1FY49**	50
	Alloy Steel	**1FY93**	25
½"	18-8	**1FY50**	50
	Alloy Steel	**1FY94**	25
⅝"	Alloy Steel	**1FY95**	25
¾"	18-8	**1FY51**	50
	Alloy Steel	**1FY96**	25
⅞"	Alloy Steel	**1FY97**	25
1"	18-8	**1FY52**	25
	Alloy Steel	**1FY98**	25
1¼"	Alloy Steel	**1FY99**	25
1½"	Alloy Steel	**1GA10**	25
#10-24 Thread, ⁵⁄₃₂ in Drive			
⅜"	18-8	**1FY53**	50
	Alloy Steel	**1GA11**	25
½"	18-8	**1FY54**	50
	Alloy Steel	**1GA12**	25
⅝"	Alloy Steel	**1GA13**	25
¾"	18-8	**1FY55**	50
	Alloy Steel	**1GA14**	25
1"	18-8	**1FY56**	25
	Alloy Steel	**1GA15**	25
#10-32 Thread, ⁵⁄₃₂ in Drive			
⅜"	18-8	**1FY57**	25
	Alloy Steel	**1GA16**	25
½"	18-8	**1FY58**	25
	Alloy Steel	**1GA17**	25
⅝"	18-8	**1FY59**	25
	Alloy Steel	**1GA18**	25
¾"	18-8	**1FY60**	25
	Alloy Steel	**1GA19**	25
⅞"	Alloy Steel	**1GA20**	25
1"	18-8	**1FY61**	50
	Alloy Steel	**1GA21**	25
1¼"	Alloy Steel	**1GA22**	25
1½"	Alloy Steel	**1GA23**	25
1¾"	Alloy Steel	**1GA24**	25
2"	Alloy Steel	**1GA25**	25
¼"-20 Thread, ³⁄₁₆ in Drive			
⅜"	18-8	**1FY62**	25
	Alloy Steel	**1GA26**	25
½"	18-8	**1FY63**	25
	Alloy Steel	**1GA27**	25
⅝"	18-8	**1FY64**	25
	Alloy Steel	**1GA28**	25
¾"	18-8	**1FY65**	25
	Alloy Steel	**1GA29**	25
⅞"	Alloy Steel	**1GA30**	25
1"	18-8	**1FY66**	25
	Alloy Steel	**1GA31**	25
1¼"	18-8	**1FY67**	25
	Alloy Steel	**1GA32**	25
1½"	18-8	**1FY68**	10
	Alloy Steel	**1GA33**	25
1¾"	Alloy Steel	**1GA34**	25
2"	18-8	**1FY69**	10
	Alloy Steel	**1GA35**	25
2½"	Alloy Steel	**1GA36**	10
3"	Alloy Steel	**1GA37**	10
¼"-28 Thread, ³⁄₁₆ in Drive			
½"	Alloy Steel	**1GA38**	25
¾"	Alloy Steel	**1GA39**	25
1"	Alloy Steel	**1GA40**	25
1¼"	Alloy Steel	**1GA41**	25
1½"	Alloy Steel	**1GA42**	25
1¾"	Alloy Steel	**1GA43**	25
2"	Alloy Steel	**1GA44**	25
⁵⁄₁₆"-18 Thread, ¼ in Drive			
½"	Alloy Steel	**1GA45**	25
¾"	18-8	**1FY70**	10
	Alloy Steel	**1GA46**	25
1"	18-8	**1FY71**	10
	Alloy Steel	**1GA47**	25
1¼"	18-8	**1FY72**	10
	Alloy Steel	**1GA48**	10
1½"	18-8	**1FY73**	10
	Alloy Steel	**1GA49**	10
1¾"	Alloy Steel	**1GA50**	10
2"	18-8	**1FY74**	10
	Alloy Steel	**1GA51**	10
2½"	Alloy Steel	**1GA52**	10
3"	Alloy Steel	**1GA53**	10
⁵⁄₁₆"-24 Thread, ¼ in Drive			
¾"	Alloy Steel	**1GA54**	25
1"	Alloy Steel	**1GA55**	25
1¼"	Alloy Steel	**1GA56**	25
1½"	Alloy Steel	**1GA57**	25
⅜"-16 Thread, ⁵⁄₁₆ in Drive			
¾"	18-8	**1FY75**	10
	Alloy Steel	**1GA58**	10
⅞"	Alloy Steel	**1GA59**	10
1"	18-8	**1FY76**	10
	Alloy Steel	**1GA60**	10
1¼"	18-8	**1FY77**	10
	Alloy Steel	**1GA61**	10
1½"	18-8	**1FY78**	10
	Alloy Steel	**1GA62**	10
1¾"	Alloy Steel	**1GA63**	10
2"	Alloy Steel	**1GA64**	10
2¼"	Alloy Steel	**1GA65**	10
2½"	Alloy Steel	**1GA66**	10
3"	Alloy Steel	**1GA67**	5
⅜"-24 Thread, ⁵⁄₁₆ in Drive			
1"	Alloy Steel	**1GA68**	10
1¼"	Alloy Steel	**1GA69**	10
1½"	Alloy Steel	**1GA70**	10
½"-13 Thread, ⅜ in Drive			
1"	Alloy Steel	**1GA71**	10
1¼"	Alloy Steel	**1GA72**	5
1½"	18-8	**1FY79**	5
	Alloy Steel	**1GA73**	5
1¾"	Alloy Steel	**1GA74**	5
2"	18-8	**1FY80**	5
	Alloy Steel	**1GA75**	5
2½"	Alloy Steel	**1GA76**	5
3"	Alloy Steel	**1GA77**	5
⅝"-11 Thread, ½ in Drive			
1½"	Alloy Steel	**1GA78**	5
1¾"	Alloy Steel	**1GA79**	5
2"	Alloy Steel	**1GA80**	5

Nylon locking element is bonded to threads for a firm hold that won't loosen under vibration. Meet ASME B18.3 standards.

18-8 Stainless Steel Vented-Head Cap Screws

Vent gas or fluids through air shaft drilled through entire length of screw. Meet ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
#2-56 Thread, ⁵⁄₆₄ in Drive		
⅛ in	**1GA81**	5
³⁄₁₆ in	**1GA82**	5
¼ in	**1GA83**	5
⁵⁄₁₆ in	**1GA84**	5
⅜ in	**1GA85**	5
½ in	**1GA86**	5
#4-40 Thread, ³⁄₃₂ in Drive		
³⁄₁₆ in	**1GA87**	5
¼ in	**1GA88**	5
⁵⁄₁₆ in	**1GA89**	5
⅜ in	**1GA90**	5
½ in	**1GA91**	5
⅝ in	**1GA92**	1
¾ in	**1GA93**	1
1 in	**1GA94**	1
#6-32 Thread, ⁷⁄₆₄ in Drive		
³⁄₁₆ in	**1GA95**	5
¼ in	**1GA96**	5
⁵⁄₁₆ in	**1GA97**	5
⅜ in	**1GA98**	5
⁷⁄₁₆ in	**1GA99**	5
½ in	**1GB10**	5
⅝ in	**1GB11**	5
¾ in	**1GB12**	5
⅞ in	**1GB13**	5
1 in	**1GB14**	5
1 ¼ in	**1GB15**	1
#8-32 Thread, ⁹⁄₆₄ in Drive		
¼ in	**1GB16**	5
⁵⁄₁₆ in	**1GB17**	5
⅜ in	**1GB18**	5
½ in	**1GB19**	5
⅝ in	**1GB20**	5
¾ in	**1GB21**	5
⅞ in	**1GB22**	5
1 in	**1GB23**	5
1 ¼ in	**1GB24**	1
1 ½ in	**1GB25**	1
#10-24 Thread, ⁵⁄₃₂ in Drive		
⅜ in	**1GB26**	5
½ in	**1GB27**	5
⅝ in	**1GB28**	5
¾ in	**1GB29**	5
1 in	**1GB30**	5
#10-32 Thread, ⁵⁄₃₂ in Drive		
¼ in	**1GB31**	5
⁵⁄₁₆ in	**1GB32**	5
⅜ in	**1GB33**	5
½ in	**1GB34**	5
⁹⁄₁₆ in	**1GB35**	5
⅝ in	**1GB36**	5
¾ in	**1GB37**	5
⅞ in	**1GB38**	5
1 in	**1GB39**	5
1 ⅛ in	**1GB40**	5
1 ¼ in	**1GB41**	5
1 ½ in	**1GB42**	1
¼"-20 Thread, ³⁄₁₆ in Drive		
⅜ in	**1GB43**	5
½ in	**1GB44**	5
⅝ in	**1GB45**	5
¾ in	**1GB46**	5
⅞ in	**1GB47**	5
1 in	**1GB48**	5
1 ¼ in	**1GB49**	5
1 ½ in	**1GB50**	1
1 ¾ in	**1GB51**	1
⁵⁄₁₆"-18 Thread, ¼ in Drive		
¾ in	**1GB52**	5
1 in	**1GB53**	5
⅜"-16 Thread, ⁵⁄₁₆ in Drive		
1 in	**1GB54**	5
1 ½ in	**1GB55**	1

Alloy Steel Socket-Head Cap Screws

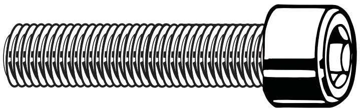
ARMORCOAT™ FASTENERS

Can withstand 1000-hr. of ASTM B117 salt spray. Meet ASTM A574, ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
#6-32 Thread, 7/64 in Drive		
½ in	5YMY6	25
⅝ in	5YMY7	25
¾ in	5YMY8	50
⅞ in	5YMY9	25
1 in	5YMZ0	50
1 ¼ in	5YMZ1	25
1 ½ in	5YMZ2	25
2 in	5YMZ3	25
#8-32 Thread, 9/64 in Drive		
⅜ in	5YMZ4	50
½ in	5YMZ5	50
⅝ in	5YMZ6	50
¾ in	5YMZ7	50
⅞ in	5YMZ8	50
1 in	5YMZ9	50
1 ¼ in	5YNA0	50
1 ½ in	5YNA1	50
2 in	5YNA2	25

Length	Item No.	Pkg. Qty.
#10-24 Thread, 5/32 in Drive		
½ in	5YNA3	100
1 in	5YNA4	50
1 ½ in	5YNA5	50
2 in	5YNA6	50
2 ¼ in	5YNA7	25
2 ½ in	5YNA8	25
¼"-20 Thread, 3/16 in Drive		
⅜ in	5YNA9	100
½ in	5YNC0	50
⅝ in	5YNC1	50
¾ in	5YNC2	50
1 in	5YNC3	50
1 ½ in	5YNC5	50
1 ¾ in	5YNC6	50
2 in	5YNC7	25
2 ¼ in	5YNC8	25
2 ½ in	5YNC9	25
3 in	5YND0	10
4 in	5YND1	10
¼"-20 Thread, 5/32 in Drive		
1 ¼ in	5YNC4	50
5/16"-18 Thread, ¼ in Drive		
⅝ in	5YND2	50
¾ in	5YND3	50
⅞ in	5YND4	50
1 in	5YND5	50
1 ¼ in	5YND6	25
1 ½ in	5YND7	25
1 ¾ in	5YND8	25
2 in	5YND9	25
3 in	5YNE0	10
4 in	5YNE1	5

Length	Item No.	Pkg. Qty.
⅜"-16 Thread, 5/16 in Drive		
⅝ in	5YNE2	25
¾ in	5YNE3	25
⅞ in	5YNE4	25
1 in	5YNE5	25
1 ¼ in	5YNE6	25
1 ½ in	5YNE7	25
1 ¾ in	5YNE8	25
2 in	5YNE9	25
2 ½ in	5YNF0	10
3 in	5YNF1	10
3 ½ in	5YNF2	10
4 in	5YNF3	5
4 ½ in	5YNF4	5
5 in	5YNF5	5
7/16"-14 Thread, ⅜ in Drive		
1 ½ in	5YNF6	10
2 in	5YNF7	10
3 in	5YNF8	10
½"-13 Thread, ⅜ in Drive		
1 in	5YNF9	10
1 ¼ in	5YNG0	10
1 ½ in	5YNG1	10
1 ¾ in	5YNG2	10
2 in	5YNG3	10
2 ¼ in	5YNG4	10
2 ½ in	5YNG5	10
3 in	5YNG6	5
3 ¼ in	5YNG7	5
3 ½ in	5YNG8	5
4 in	5YNG9	5
4 ½ in	5YNH0	5



316 Stainless Steel Socket-Head Cap Screws

Meet ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
#2-56 Thread, 5/64 in Drive		
¼ in	22TU74	100
⅜ in	22TU75	100
#3-48 Thread, 5/64 in Drive		
¼ in	29DT74	100
⅝ in	29DT76	100
#4-40 Thread, 3/32 in Drive		
3/16 in	22TU76	100
¼ in	22TU77	100
5/16 in	22TU78	100
⅜ in	22TU79	100
½ in	22TU80	100
⅝ in	22TU81	100
¾ in	22TU82	100
1 in	22TU83	100
#6-32 Thread, 7/64 in Drive		
¼ in	22TU84	100
⅜ in	22TU86	100
½ in	22TU87	100
⅝ in	22TU88	100
¾ in	22TU89	100
1 in	22TU90	100
1 ¼ in	22TU91	100
1 ½ in	22TU92	100
#8-32 Thread, 9/64 in Drive		
¼ in	22TU93	100
⅜ in	22TU94	100
½ in	22TU95	100
⅝ in	22TU96	100
¾ in	22TU97	100
1 in	22TU98	100
1 ¼ in	22TU99	100
1 ½ in	22TV01	100
#10-24 Thread, 5/32 in Drive		
⅜ in	22TV02	100
½ in	22TV03	100
⅝ in	22TV04	100
¾ in	22TV05	100
1 in	22TV06	100
1 ¼ in	22TV07	100
1 ½ in	22TV08	100
2 in	22TV09	100

Length	Item No.	Pkg. Qty.
#10-32 Thread, 5/32 in Drive		
¼ in	22TX77	100
⅜ in	22TX78	100
½ in	22TX79	100
⅝ in	22TX80	100
¾ in	22TX81	100
⅞ in	22TX82	100
1 in	22TX83	100
1 ¼ in	22TX84	100
1 ½ in	22TX85	100
2 in	22TX86	100
¼"-20 Thread, 3/16 in Drive		
⅜ in	22TV10	100
½ in	22TV11	100
⅝ in	22TV12	100
¾ in	22TV13	100
⅞ in	22TV14	100
1 in	22TV15	100
1 ¼ in	22TV16	100
1 ½ in	22TV17	100
1 ¾ in	22TV18	100
2 in	22TV19	50
2 ¼ in	22TV20	50
2 ½ in	22TV21	50
3 in	22TV22	25
¼"-28 Thread, 3/16 in Drive		
½ in	22TX87	100
¾ in	22TX88	100
1 in	22TX89	100
5/16"-18 Thread, ¼ in Drive		
½ in	22TV23	100
⅝ in	22TV24	100
¾ in	22TV25	100
⅞ in	22TV26	100
1 in	22TV27	50
1 ¼ in	22TV28	50
1 ½ in	22TV29	50
1 ¾ in	22TV30	50
2 in	22TV31	50
2 ½ in	22TV32	25
2 ¼ in	29DT85	25
3 in	22TV33	25
3 ½ in	22TV34	25
4 in	22TV35	10
5/16"-24 Thread, ¼ in Drive		
¾ in	22TX90	100
1 in	22TX91	50

Length	Item No.	Pkg. Qty.
⅜"-16 Thread, 5/16 in Drive		
½ in	22TV36	50
⅝ in	22TV37	50
¾ in	22TV38	50
1 in	22TV39	50
1 ¼ in	22TV40	50
1 ½ in	22TV41	25
1 ¾ in	22TV42	25
2 in	22TV43	25
2 ½ in	22TV44	25
3 in	22TV45	10
⅜"-24 Thread, 5/16 in Drive		
¾ in	22TX92	50
1 in	22TX93	50
7/16"-14 Thread, ⅜ in Drive		
1 ½ in	22TV46	25
2 in	22TV47	10
½"-13 Thread, ⅜ in Drive		
¾ in	22TV48	10
1 in	22TV49	10
1 ¼ in	22TV50	10
1 ½ in	22TV51	10
1 ¾ in	22TV52	10
2 in	22TV53	10
2 ¼ in	22TV54	10
2 ½ in	22TV55	10
3 in	22TV56	5
3 ½ in	29DT86	5
4 in	22TV57	5
⅝"-11 Thread, ½ in Drive		
1 in	22TV58	10
1 ¼ in	22TV59	10
1 ½ in	22TV60	10
1 ¾ in	22TV61	10
2 in	22TV62	5
2 ¼ in	22TV63	5
2 ½ in	22TV64	5
3 in	22TV65	5
3 ½ in	22TV66	5
4 in	22TV67	5
¾"-10 Thread, ⅝ in Drive		
1 ¼ in	22TV68	5
1 ½ in	22TV69	5
1 ¾ in	22TV70	5
2 in	22TV71	5
2 ½ in	22TV72	5
3 in	22TV73	5
4 in	22TV74	5

Metric Blue Steel Socket-Head Cap Screws

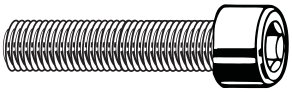
METRIC BLUE

Meet ASTM A574, ASME B18.3 standards.

Length	Item No.	Pkg. Qty.
M3-0.50 Thread, 2.5 mm Drive		
5 mm	5AHK5	50
6 mm	5AHK6	50
8 mm	5AHK7	50
10 mm	5AHK8	50
12 mm	5AHK9	50
16 mm	5AHL0	50
20 mm	5AHL1	50
25 mm	5AHL2	50
30 mm	5AHL3	50
35 mm	5AHL4	50
M4-0.70 Thread, 3 mm Drive		
6 mm	5AHL5	50
8 mm	5AHL6	50
10 mm	5AHL7	50
12 mm	5AHL8	50
16 mm	5AHL9	50
20 mm	5AHN0	50
25 mm	5AHN1	25
30 mm	5AHN2	50
45 mm	5AHN3	25
50 mm	5AHN4	25
M5-0.80 Thread, 4 mm Drive		
10 mm	5AHN5	50
12 mm	5AHN6	100
16 mm	5AHN7	50
20 mm	5AHN8	50
25 mm	5AHN9	50
30 mm	5AHP0	50
35 mm	5AHP1	50
40 mm	5AHP2	50
50 mm	5AHP3	25
M6-1.00 Thread, 5 mm Drive		
10 mm	5AHP4	50
12 mm	5AHP5	50
16 mm	5AHP6	50
20 mm	5AHP7	50
25 mm	5AHP8	50
30 mm	5AHP9	50
35 mm	5AHR0	50
40 mm	5AHR1	50
45 mm	5AHR2	50
50 mm	5AHR3	50
55 mm	5AHR4	25
60 mm	5AHR5	25
75 mm	5AHR6	10

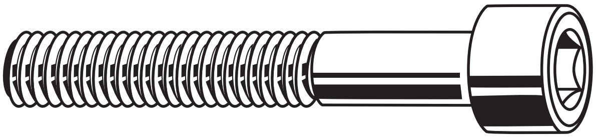
Length	Item No.	Pkg. Qty.
M8-1.25 Thread, 6 mm Drive		
12 mm	5AHR7	50
25 mm	5AHT0	50
30 mm	5AHT1	50
35 mm	5AHT2	25
40 mm	5AHT3	25
45 mm	5GYT5	25
50 mm	5GYT6	25
60 mm	5GYT7	25
65 mm	5GYT8	25
70 mm	5GYT9	10
100 mm	5GYU0	10
M10-1.50 Thread, 8 mm Drive		
20 mm	5GYU1	25
25 mm	5GYU2	25
30 mm	5GYU3	25
35 mm	5GYU4	25
40 mm	5GYU5	25
50 mm	5GYU6	25
80 mm	5GYU7	10
M12-1.75 Thread, 10 mm Drive		
25 mm	5GYU8	10
30 mm	5GYU9	10
35 mm	5GYV0	10
40 mm	5GYV1	10
50 mm	5GYV2	10
80 mm	5GYV3	10
90 mm	5GYV4	10
M16-2.00 Thread, 14 mm Drive		
40 mm	5GYV5	5
45 mm	5GYV6	5
50 mm	5GYV7	5
60 mm	5GYV8	5
70 mm	5GYV9	5
80 mm	5GYW0	5
90 mm	5GYW1	5
M20-2.50 Thread, 17 mm Drive		
50 mm	5GYW2	5
60 mm	5GYW3	5
70 mm	5GYW4	5
80 mm	5GYW5	5
90 mm	5GYW6	5
100 mm	5GYW7	5
M24-3.00 Thread, 19 mm Drive		
70 mm	5GYW8	5
80 mm	5GYW9	5
90 mm	5GYX0	5
100 mm	5GYX1	5
110 mm	5GYX2	5

Min. thread length is calculated using the screw's length. The formula is dia. x 2 + 1/4". For example, 1/4-20 x 4: 1/4 x 2 = 1/2". 1/2" + 1/4" = 3/4". This item would have at least 3/4" thread. Longer than 150mm are available at Grainger.com®; search for "hex head cap screws."



Metric Socket-Head Cap Screws

L	Class 12.9 Steel Black Oxide Item No.	Pkg. Qty.	Class 8.8 Steel Zinc Plated Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
M1.6-0.35 Thread, 1.5 mm Drive						
3 mm	22TZ26	100	—	—	—	—
4 mm	22TZ27	100	—	—	—	—
5 mm	22TZ28	100	—	—	—	—
6 mm	22TZ29	100	—	—	—	—
M2-0.40 Thread, 1.5 mm Drive						
3 mm	6CE29	100	—	—	—	—
4 mm	6CE30	100	—	—	—	—
5 mm	6CE31	100	—	—	—	—
6 mm	6CE32	100	—	—	—	—
8 mm	6CE33	100	—	—	—	—
10 mm	6CE34	100	—	—	—	—
12 mm	6CE35	100	—	—	—	—
M2.5-0.45 Thread, 2 mm Drive						
4 mm	6CE36	100	—	—	—	—
5 mm	6CE37	100	—	—	—	—
6 mm	6CE38	100	—	—	—	—
8 mm	6CE39	100	—	—	—	—
10 mm	6CE40	100	—	—	—	—
12 mm	6CE41	100	—	—	—	—
16 mm	6CE42	100	—	—	—	—
M3-0.50 Thread, 2.5 mm Drive						
6 mm	6CE49	100	38DC71	100	6CE49	100
8 mm	6CE50	100	38DC72	100	6CE50	100
10 mm	—	—	38DC73	100	26LG17	100
12 mm	6CE51	100	38DC74	100	6CE51	100
16 mm	6CE53	100	38DC75	100	6CE53	100
20 mm	—	—	38DC76	100	—	—
25 mm	6CE56	100	38DC77	100	6CE56	100
30 mm	6CE57	100	38DC78	100	—	—
40 mm	22TZ30	100	—	—	—	—
50 mm	22TZ31	100	—	—	—	—
M4-0.70 Thread, 3 mm Drive						
6 mm	6CE62	100	38DC79	100	5YRT1	100
8 mm	6CE63	100	38DC80	100	5YRA9	100
10 mm	26LG20	100	38DC81	100	5YRC0	100
12 mm	4XY50	100	38DC82	100	5YRC1	100
16 mm	4XY52	100	38DC83	100	5YRC2	100
18 mm	6CE64	100	38DC84	100	—	—
20 mm	4XY53	100	38DC85	100	5YRC3	100
25 mm	—	—	38DC86	100	5YRC4	100
30 mm	6CE67	100	38DC87	100	5YRC5	100
35 mm	6CE68	100	38DC88	100	5YRC6	100
40 mm	6CE69	100	38DC89	100	5YRC7	100
45 mm	6CE70	100	38DC90	100	5YRC8	100
50 mm	6CE71	100	38DC91	100	5YRC9	100
60 mm	6CE72	100	38DC92	100	—	—
70 mm	6CE73	100	38DC93	100	—	—
80 mm	22TZ32	100	—	—	—	—
M5-0.80 Thread, 4 mm Drive						
6 mm	6CE75	100	38DC94	100	—	—
8 mm	6CE76	100	38DC95	100	5YRD0	100
10 mm	4XY54	100	38DC96	100	5YRD1	100
12 mm	4XY55	100	38DC97	100	5YRD2	100
16 mm	4XY56	100	38DC98	100	—	—
20 mm	4XY57	100	38DC99	100	5YRD4	100
25 mm	4XY58	100	38DD01	100	5YRD5	100
30 mm	4XY59	100	38DD02	100	—	—
35 mm	6CE80	100	38DD03	100	5YRT2	100
40 mm	—	—	38DD04	100	—	—
45 mm	6CE81	100	38DD05	100	6CE81	100
50 mm	6CE82	100	38DD06	100	5YRT5	100
55 mm	22TZ33	100	38DD07	100	5MJN3	100
60 mm	22TZ34	100	38DD08	100	5MJN4	100
65 mm	22TZ35	100	—	—	—	—
70 mm	22TZ36	100	38DD09	100	—	—
75 mm	22TZ37	100	—	—	—	—
80 mm	22TZ38	100	38DD10	100	—	—
90 mm	22TZ39	50	—	—	—	—
100 mm	22TZ40	50	38DD11	50	—	—
M6-1.00 Thread, 5 mm Drive						
8 mm	1GEG5	100	38DD12	100	5NTN3	100
10 mm	4XY61	100	38DD13	100	5YRD6	100
12 mm	—	—	38DD14	100	5YRD7	100
16 mm	—	—	38DD15	100	5YRD8	100
18 mm	4XY65	100	38DD16	100	—	—
20 mm	26LG40	100	38DD17	100	5YRD9	100
22 mm	6CE91	100	38DD18	100	—	—
25 mm	—	—	38DD19	100	5YRE0	100
30 mm	—	—	38DD20	100	5YRE1	100
35 mm	4XY69	100	38DD21	100	5YRE2	100
40 mm	—	—	38DD22	100	—	—
45 mm	6CE92	100	38DD23	100	5YRT6	100
50 mm	4XY71	100	38DD24	100	5YRE4	100
55 mm	22TZ41	100	38DD25	100	5YRT7	100
60 mm	22TZ42	100	38DD26	100	5YRT8	100
65 mm	22TZ43	100	38DD27	100	5YRT9	100
70 mm	22TZ44	100	38DD28	100	5YRU0	100
75 mm	22TZ45	100	38DD29	100	5NTN1	100
80 mm	22TZ46	100	38DD30	50	5NTN2	100
90 mm	22TZ47	50	38DD31	50	—	—
100 mm	22TZ48	50	38DD32	50	—	—
110 mm	22TZ49	50	—	—	—	—
120 mm	22TZ50	50	38DD33	50	—	—
M8-1.25 Thread, 6 mm Drive						
10 mm	6CU13	100	38DD34	100	—	—
12 mm	6CU14	100	38DD35	100	5YRE5	100
16 mm	6CU15	100	38DD36	100	5YRE6	100
18 mm	6CU16	100	38DD37	100	—	—
20 mm	—	—	38DD38	100	5YRE7	100
22 mm	22TZ51	100	38DD39	100	—	—
25 mm	—	—	38DD40	100	5YRE8	100
30 mm	—	—	38DD41	100	5YRE9	100
35 mm	—	—	38DD42	100	5YRF0	100
40 mm	—	—	38DD43	100	5YRF1	100
45 mm	—	—	38DD44	100	5NTN4	100
50 mm	4XY78	100	38DD45	100	5YRF2	100
55 mm	22TZ52	100	38DD46	100	5NTN5	100
60 mm	22TZ53	100	38DD47	100	5NTN6	100
65 mm	22TZ54	100	38DD48	100	5NTN7	100
70 mm	22TZ55	100	38DD49	100	5NTN8	100
75 mm	22TZ56	100	38DD50	100	5NTN9	100
80 mm	22TZ57	100	38DD51	100	5NTP0	100
90 mm	22TZ58	50	38DD53	50	—	—
100 mm	22TZ59	50	38DD54	50	—	—
110 mm	22TZ60	50	38DD55	50	—	—
120 mm	22TZ61	50	38DD56	50	—	—
130 mm	22TZ62	50	38DD57	50	—	—
140 mm	22TZ63	25	38DD58	25	—	—
150 mm	22TZ64	25	—	—	—	—
M10-1.50 Thread, 8 mm Drive						
12 mm	4XY79	100	38DD60	100	—	—
16 mm	22TZ68	100	38DD61	100	22TZ68	100
20 mm	22TZ69	100	38DD62	100	5YRF4	100
25 mm	—	—	38DD63	100	5YRF5	100
30 mm	—	—	38DD64	100	5YRF6	100
35 mm	—	—	38DD65	100	5YRF7	100
40 mm	—	—	38DD66	50	5YRF8	100
45 mm	22TZ70	50	38DD67	50	—	—
50 mm	—	—	38DD68	50	5YRF9	100
55 mm	22TZ71	50	38DD69	50	5YRL8	100
60 mm	22TZ72	50	38DD70	50	5YRG0	50
65 mm	22TZ73	50	38DD71	50	5YRL9	50
70 mm	22TZ74	50	38DD72	50	5YRG1	50
75 mm	4XY85	100	38DD73	50	5YRN0	50
80 mm	22TZ75	50	38DD74	50	5YRN1	50
90 mm	22TZ76	50	38DD76	50	5YRN2	50
100 mm	—	—	38DD77	50	—	—
110 mm	22TZ78	25	38DD78	25	—	—
120 mm	—	—	38DD79	25	—	—
130 mm	22TZ79	25	38DD80	25	—	—
140 mm	22TZ80	25	—	—	—	—
150 mm	22TZ81	25	—	—	—	—
M12-1.75 Thread, 10 mm Drive						
16 mm	22TZ85	50	38DD83	50	—	—
20 mm	22TZ86	50	38DD84	50	5YRG2	100
25 mm	4XY86	100	38DD85	50	5YRG3	100
30 mm	—	—	38DD86	50	—	—
35 mm	22TZ87	50	38DD87	50	5YRG5	100
40 mm	—	—	38DD88	50	—	—
45 mm	4XY89	50	38DD89	50	5YRG7	50
50 mm	—	—	38DD90	50	5YRG8	50
55 mm	22TZ88	50	38DD91	50	—	—
60 mm	22TZ89	50	38DD92	50	5YRG9	50
65 mm	22TZ90	50	38DD93	50	5YRN3	50
70 mm	22TZ91	25	38DD94	25	5YRN4	50
75 mm	22TZ92	25	38DD95	25	5YRN5	50
80 mm	22TZ93	25	38DD96	25	5YRN6	25
90 mm	4XY91	25	38DD98	25	—	—
100 mm	22TZ94	25	38DD99	25	—	—
110 mm	22TZ95	25	38DE01	25	—	—
120 mm	22TZ96	25	38DE02	25	—	—
130 mm	22TZ97	25	38DE03	25	—	—
140 mm	22TZ98	25	38DE04	25	—	—
150 mm	22TZ99	25	—	—	—	—
M14-2.00 Thread, 12 mm Drive						
20 mm	22UA03	50	—	—	—	—
25 mm	22UA04	50	—	—	—	—
30 mm	22UA05	50	38DE07	50	—	—
35 mm	22UA06	50	38DE08	50	—	—
40 mm	22UA07	50	38DE09	50	—	—
45 mm	22UA08	25	38DE10	25	—	—
50 mm	22UA09	25	38DE11	25	—	—
55 mm	—	—	38DE12	25	—	—
60 mm	22UA10	25	38DE13	25	—	—
65 mm	22UA11	25	—	—	—	—
70 mm	22UA12	25	—	—	—	—
75 mm	22UA13	25	—	—	—	—
80 mm	22UA14	25	38DE14	25	—	—
90 mm	22UA15	25	38DE15	25	—	—
100 mm	22UA16	25	38DE16	25	—	—
110 mm	22UA17	25	38DE17	25	—	—
120 mm	22UA18	25	—	—	—	—
150 mm	22UA21	10	—	—	—	—
M16-2.00 Thread, 14 mm Drive						
20 mm	22UA24	25	—	—	—	—
25 mm	22UA25	25	38DE18	25	—	—
30 mm	22UA26	25	38DE19	25	5YRH0	25
35 mm	4XY92	25	38DE20	25	5YRH1	25
40 mm	22UA27	25	38DE21	25	5YRH2	25
45 mm	22UA28	25	38DE22	25	5YRH3	25
50 mm	22UA29	25	38DE23	25	5YRH4	25
55 mm	—	—	38DE24	25	5YRH5	25
60 mm	22UA30	25	38DE25	25	5YRH6	25
65 mm	22UA31	10	38DE26	10	—	—
70 mm	22UA32	10	38DE27	10	5YRP0	25
75 mm	22UA33	10	—	—	5YRP1	25
80 mm	22UA34	10	38DE28	10	5YRP2	25
90 mm	22UA35	10	38DE29	10	5YRP3	25
100 mm	22UA36	10	38DE30	10	5YRN7	10
110 mm	22UA37	10	38DE31	10	5YRN8	10
120 mm	22UA38	10	38DE32	10	5YRN9	10
130 mm	22UA39	10	38DE33	10	—	—
140 mm	22UA40	10	38DE34	10	—	—
150 mm	22UA41	10	—	—	—	—
M18-2.50 Thread, 14 mm Drive						
40 mm	22UA49	25	—	—	—	—
45 mm	22UA50	25	—	—	—	—
50 mm	22UA51	25	—	—	—	—
60 mm	—	—	38DE38	10	—	—
70 mm	22UA52	10	—	—	—	—
80 mm	22UA53	10	38DE39	10	—	—
100 mm	22UA55	10	—	—	—	—
110 mm	22UA56	10	—	—	—	—
140 mm	22UA58	10	—	—	—	—
M20-2.50 Thread, 17 mm Drive						
30 mm	22UA61	10	38DE40	10	—	—
40 mm	22UA62	10	38DE41	10	5YRP7	10
45 mm	22UA63	10	38DE42	10	5YRP8	10
50 mm	22UA64	10	38DE43	10	5YRP9	10
55 mm	22UA65	10	38DE44	10	—	—
60 mm	22UA66	10	38DE45	10	—	—
65 mm	22UA67	10	—	—	—	—
70 mm	22UA68	10	38DE46	10	—	—
80 mm	22UA69	10	38DE47	10	—	—
90 mm	22UA70	10	38DE48	10	5YRR1	10
100 mm	22UA71	10	38DE49	10	5MJN5	25
110 mm	22UA72	10	38DE50	10	5YRP5	10
120 mm	22UA73	10	38DE51	10	5MJN6	10
130 mm	22UA74	10	38DE52	10	5YRP6	10
140 mm	22UA75	10	38DE53	10	—	—
150 mm	22UA76	10	—	—	—	—
M24-3.00 Thread, 19 mm Drive						
40 mm	22UA84	10	—	—	—	—
45 mm	22UA85	10	—	—	—	—
50 mm	22UA86	10	38DE57	5	5MJL0	10
60 mm	22UA87	10	38DE58	5	5YRR0	10
65 mm	22UA88	10	—	—	—	—
80 mm	22UA89	10	38DE60	5	—	—
90 mm	22UA90	5	38DE61	5	—	—
100 mm	22UA91	5	38DE62	5	5YRR2	10
110 mm	22UA92	5	38DE63	5	5YRR3	10
120 mm	22UA93	5	38DE64	5	5YRR4	10
130 mm	22UA94	5	—	—	5YRR5	10
140 mm	22UA95	5	38DE65	5	—	—
150 mm	22UA96	5	—	—	5YRR7	5
M30-3.50 Thread, 22 mm Drive						
60 mm	22UC05	5	—	—	—	—
70 mm	22UC06	5	—	—	—	—
80 mm	22UC07	5	—	—	—	—
90 mm	22UC08	5	—	—	—	—
100 mm	22UC09	5	—	—	—	—
110 mm	22UC10	5	—	—	—	—
120 mm	22UC11	5	38DE68	5	—	—
130 mm	22UC12	5	—	—	—	—
140 mm	22UC13	5	—	—	—	—
150 mm	22UC14	5	—	—	—	—
M36-4.00 Thread, 27 mm Drive						
80 mm	22UC21	5	—	—	—	—
90 mm	22UC22	5	—	—	—	—
100 mm	22UC23	5	—	—	—	—
110 mm	—	—	—	—	5ZY95	1
120 mm	22UC24	5	38DE70	5	—	—
150 mm	—	—	—	—	5ZY99	1

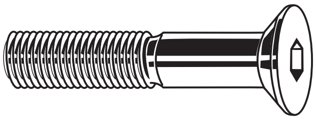


Metric Stainless Steel Socket-Head Cap Screws

Meet DIN 912 standards; except 38DZ56 to 38DZ69 meet ISO 7380-1, and 38DZ61 to 38DZ65 meet DIN7984.

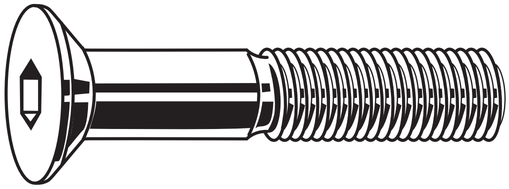
Length	A2 Stainless Steel Plain Item No.	A2 Pkg. Qty.	A4 Stainless Steel Plain Item No.	A4 Pkg. Qty.
M2-0.40 Thread, 1.5 mm Drive				
4 mm	22TW76	50	—	—
5 mm	22TW81	50	6CY80	50
6 mm	22TW85	50	6CY81	50
8 mm	22TW86	50	6CY82	50
10 mm	22TW87	50	6CY83	50
12 mm	22TW88	50	—	—
16 mm	6DA89	50	—	—
20 mm	6DA90	50	—	—
M2.5-0.45 Thread, 2 mm Drive				
5 mm	22TW89	50	—	—
6 mm	22TX95	50	6CY86	50
8 mm	22TX96	50	—	—
10 mm	22TY34	50	6CY88	50
12 mm	22TY35	50	—	—
16 mm	22TY36	50	22UD43	50
20 mm	6DA98	50	—	—
M3-0.50 Thread, 2.5 mm Drive				
4 mm	6DA99	50	6CY91	25
5 mm	22TY42	50	6CY92	50
6 mm	22TY43	50	6CY93	50
8 mm	22TY48	50	6CY94	50
10 mm	22TY49	50	6CY95	50
12 mm	22TZ12	50	6CY96	50
16 mm	22TZ13	50	6CY97	50
18 mm	22TZ14	50	—	—
20 mm	22UC27	50	6CY98	50
25 mm	22UC28	50	6CY99	50
30 mm	22UC29	50	6DA10	50
35 mm	22UC31	50	—	—
40 mm	22UC32	50	6DA11	50
45 mm	22UC30	50	—	—
50 mm	6DB24	25	—	—
M4-0.70 Thread, 3 mm Drive				
5 mm	6DB25	100	—	—
6 mm	38DZ61	50	22UD44	50
8 mm	22UC34	50	22UD45	50
10 mm	22UC37	50	6DA14	50
12 mm	22UC39	50	6DA15	50
14 mm	6DB30	100	6DA16	50
16 mm	22UC47	50	6DA17	50
20 mm	22UC61	50	6DA18	50
25 mm	22UC62	50	6DA19	50
30 mm	22UC63	50	6DA20	50
35 mm	22UC64	50	22UD46	50
40 mm	6DB37	50	22UD47	50
50 mm	22UC35	50	22UD48	50
60 mm	22UC36	50	—	—
M5-0.80 Thread, 4 mm Drive				
6 mm	38DZ56	50	—	—
8 mm	38DZ62	50	26LG88	50
10 mm	23NN81	50	22UD49	50
12 mm	23NN82	50	22UD50	50
14 mm	6DB45	100	22UD51	50
16 mm	23NN83	50	22UD52	50
20 mm	23NN84	50	22UD53	50
25 mm	23NN85	50	22UD54	50
30 mm	6DB51	50	22UD55	50
35 mm	22UC40	50	22UD56	50
40 mm	22UC41	50	22UD57	50
45 mm	38DZ57	50	22UD58	50
50 mm	22UC43	50	22UD59	50
55 mm	6DB56	25	38EA77	50
60 mm	22UC44	50	22UD60	50
70 mm	22UC45	50	38EA78	50
80 mm	22UC46	50	38EA79	25
90 mm	38DZ66	25	—	—
100 mm	38DZ67	25	—	—
M6-1.00 Thread, 5 mm Drive				
8 mm	6DB60	50	38EA80	50
10 mm	23NN87	50	6DA36	50
12 mm	26WC45	50	22UD61	50
14 mm	26WC46	50	22UD62	50
16 mm	26WC47	50	22UD63	50
20 mm	26WC48	50	22UD64	50
25 mm	6DB68	50	22UD65	50
30 mm	26LG83	50	22UD66	50
35 mm	22UC49	50	22UD67	50
40 mm	22UC50	50	22UD68	50
45 mm	22UC51	50	22UD69	50
50 mm	22UC52	50	22UD70	50
55 mm	22UC53	50	22UD71	50
60 mm	22UC54	50	22UD72	50
65 mm	22UC55	50	—	—
70 mm	22UC56	50	22UD73	50
80 mm	22UC57	50	22UD74	50
90 mm	22UC58	25	38EA81	50
100 mm	22UC59	25	—	—
110 mm	22UC60	25	—	—
120 mm	6DB82	5	38EA82	50
130 mm	6DB83	10	38EA83	50
140 mm	6DB84	10	—	—
150 mm	6DB85	5	—	—
M8-1.25 Thread, 6 mm Drive				
10 mm	6DB86	50	22UD75	50
12 mm	6DB87	50	22UD76	50
16 mm	6DB89	50	22UD77	50
20 mm	6DB91	50	22UD78	50
25 mm	22UC68	50	22UD79	50
30 mm	22UC69	50	22UD80	50
35 mm	22UC70	50	22UD81	50
40 mm	22UC71	50	22UD82	50
45 mm	22UC72	50	22UD83	50
50 mm	22UC73	50	22UD84	50
55 mm	22UC74	50	22UD85	50
60 mm	22UC75	50	22UD86	50
70 mm	22UC76	50	22UD87	50
80 mm	22UC77	50	22UD88	50
90 mm	22UC78	25	22UD89	25
100 mm	22UC79	25	38EA84	25
110 mm	22UC80	25	—	—
120 mm	22UC81	25	—	—
130 mm	22UC82	25	—	—
140 mm	22UC83	10	—	—
150 mm	22UC84	10	—	—
M10-1.50 Thread, 6 mm Drive				
12 mm	38DZ58	50	—	—
35 mm	38DZ59	50	—	—
55 mm	38DZ60	25	—	—
M10-1.50 Thread, 8 mm Drive				
16 mm	22UC85	50	22UD90	50
20 mm	22UC86	50	22UD91	50
25 mm	22UC87	50	22UD92	50
30 mm	22UC88	50	22UD93	50
35 mm	22UC89	50	22UD94	50
40 mm	22UC90	25	22UD95	25
45 mm	22UC91	25	22UD96	25
50 mm	22UC92	25	22UD97	25
55 mm	22UC93	25	38EA85	25
60 mm	22UC94	25	26LG89	25
70 mm	22UC95	25	38EA86	25
80 mm	22UC96	25	38EA87	25
90 mm	22UC97	25	38EA88	25
100 mm	22UC98	25	38EA89	25
110 mm	22UC99	10	—	—
120 mm	22UD01	10	—	—
130 mm	22UD02	10	—	—
140 mm	22UD03	10	—	—
150 mm	22UD04	10	—	—
M12-1.75 Thread, 10 mm Drive				
16 mm	22UD05	25	—	—
20 mm	22UD06	25	22UD98	25
25 mm	38DZ63	25	22UD99	25
30 mm	22UD08	25	22UE01	25
35 mm	22UD09	25	22UE02	25
40 mm	—	—	22UE03	25
45 mm	—	—	22UE04	25
50 mm	—	—	22UE05	25
55 mm	22UD13	25	38EA90	25
60 mm	38DZ64	25	22UE06	25
65 mm	6DE51	5	—	—
70 mm	22UD15	10	38EA91	25
75 mm	22UD16	10	—	—
80 mm	22UD17	10	38EA92	25
90 mm	22UD18	10	—	—
100 mm	22UD19	10	38EA93	10
110 mm	22UD20	10	—	—
120 mm	22UD21	10	26LG90	10
130 mm	22UD22	10	—	—
140 mm	22UD23	10	—	—
150 mm	22UD24	10	—	—
M14-2.00 Thread, 12 mm Drive				
40 mm	26LG84	25	—	—
50 mm	26LG85	10	38EA94	10
60 mm	26LG86	10	—	—
M16-2.00 Thread, 14 mm Drive				
25 mm	22UD25	10	—	—
30 mm	38DZ65	25	26LG91	10
35 mm	22UD27	10	38EA95	10
40 mm	22UD28	10	—	—
45 mm	22UD29	10	38EA96	10
50 mm	22UD30	10	—	—
55 mm	22UD31	10	38EA97	10
60 mm	22UD32	10	—	—
70 mm	22UD33	5	26LG92	5
80 mm	22UD34	5	26LG93	5
90 mm	22UD35	5	38EA98	10
100 mm	22UD36	5	38EA99	10
110 mm	22UD37	5	—	—
120 mm	22UD38	5	—	—
M20-2.50 Thread, 17 mm Drive				
40 mm	26LG87	5	—	—
45 mm	38DZ68	5	38EC01	5
50 mm	22UD39	5	—	—
60 mm	22UD40	5	—	—
70 mm	22UD41	5	—	—
80 mm	22UD42	5	—	—
90 mm	38DZ69	5	—	—
100 mm	—	—	26LG94	5
120 mm	38DZ70	5	—	—
130 mm	—	—	38EC02	5
M24-3.00 Thread, 19 mm Drive				
60 mm	38DZ71	5	—	—
70 mm	38DZ72	5	—	—
80 mm	38DZ73	5	—	—
100 mm	38DZ74	5	—	—

Alloy Steel Flat-Head Cap Screws



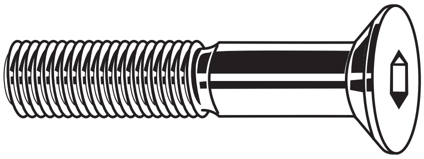
- Meet ASME B18.3 standards

Length	Alloy Steel Plain Item No.	Pkg. Qty.	Alloy Steel Black Oxide Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 7/200 in Drive						
1/8 in	26LC98	100	—	—	—	—
1/4 in	26LD01	100	—	—	—	—
3/8 in	26LD03	100	—	—	—	—
1/2 in	26LD04	100	—	—	—	—
5/8 in	26LD05	100	—	—	—	—
3/4 in	26LD06	100	—	—	—	—
1 in	26LD07	100	—	—	—	—
#1-72 Thread, 1/20 in Drive						
1/8 in	26LD08	100	—	—	—	—
1/4 in	26LD10	100	—	—	—	—
3/8 in	26LD12	100	—	—	—	—
1/2 in	26LD13	100	—	—	—	—
5/8 in	26LD14	100	—	—	—	—
1 in	26LD16	100	—	—	—	—
#2-56 Thread, 1/20 in Drive						
1/8 in	26KY45	100	—	—	—	—
3/16 in	26KY46	100	—	—	—	—
1/4 in	26KY47	100	—	—	—	—
3/8 in	26KY49	100	—	—	—	—
1/2 in	26KY50	100	—	—	—	—
5/8 in	26KY51	100	—	—	—	—
3/4 in	26KY52	100	—	—	—	—
7/8 in	26KY53	100	—	—	—	—
1 in	26KY54	100	—	—	—	—
#3-48 Thread, 1/16 in Drive						
1/4 in	26KY56	100	—	—	—	—
3/8 in	26KY58	100	—	—	—	—
1/2 in	26KY59	100	—	—	—	—
5/8 in	26KY60	100	—	—	—	—
3/4 in	26KY61	100	—	—	—	—
1 in	26KY62	100	—	—	—	—
#4-40 Thread, 1/16 in Drive						
1/8 in	—	—	5MYG0	50	—	—
3/16 in	26KY63	100	—	—	—	—
1/4 in	26KY64	100	—	—	5YPR3	100
5/16 in	26KY65	100	—	—	—	—
3/8 in	26KY66	100	—	—	5YPR4	100
1/2 in	26KY68	100	—	—	5YPR5	100
5/8 in	26KY69	100	—	—	5MJN7	100
3/4 in	26KY70	100	—	—	5MJN8	100
7/8 in	26KY71	100	—	—	—	—
1 in	26KY72	100	—	—	—	—
1 1/4 in	26KY73	100	—	—	—	—
#4-48 Thread, 1/16 in Drive						
1/4 in	26LD17	100	—	—	—	—
3/8 in	26LD18	100	—	—	—	—
1/2 in	26LD19	100	—	—	—	—
5/8 in	26LD20	100	—	—	—	—
3/4 in	26LD21	100	—	—	—	—
1 in	26LD22	100	—	—	—	—
#5-40 Thread, 5/64 in Drive						
1/4 in	26KY74	100	—	—	5MJN9	100
3/8 in	26KY75	100	—	—	5MJP0	100
1/2 in	26KY76	100	—	—	5MJP1	100
5/8 in	26KY77	100	—	—	5MJP2	100
3/4 in	26KY78	100	—	—	5MJP3	100
1 in	26KY79	100	—	—	—	—
1 1/4 in	26KY80	100	—	—	—	—
1 1/2 in	26KY81	100	—	—	—	—
#6-32 Thread, 5/64 in Drive						
1/4 in	26KY83	100	—	—	5YPR6	100
5/16 in	26KY84	100	—	—	—	—
3/8 in	—	—	4XU63	100	5YPR7	100
1/2 in	26KY86	100	—	—	5YPR8	100
5/8 in	26KY87	100	—	—	5YPR9	100
3/4 in	26KY88	100	—	—	5MJP4	100
1 in	26KY90	100	—	—	—	—
1 1/4 in	26KY91	100	—	—	—	—
1 1/2 in	26KY92	100	—	—	—	—
1 3/4 in	26KY93	100	—	—	—	—
2 in	26KY94	100	—	—	—	—
2 1/4 in	26KY95	100	—	—	—	—
2 1/2 in	26KY96	100	—	—	—	—
#6-40 Thread, 5/64 in Drive						
1/4 in	26LD23	100	—	—	—	—
3/8 in	26LD24	100	—	—	—	—
1/2 in	26LD25	100	—	—	—	—
5/8 in	26LD26	100	—	—	—	—
3/4 in	26LD27	100	—	—	—	—
1 in	26LD28	100	—	—	—	—
#8-32 Thread, 3/32 in Drive						
1/4 in	26KY97	100	—	—	—	—
5/16 in	26KY98	100	—	—	—	—
3/8 in	—	—	4XU66	100	5YPT0	100
7/16 in	26KY99	100	—	—	—	—
1/2 in	26KZ01	100	—	—	5MJP5	100
5/8 in	26KZ02	100	—	—	5MJP6	100
3/4 in	26KZ03	100	—	—	5MJP7	100
7/8 in	26KZ04	100	—	—	—	—
1 in	26KZ05	100	—	—	5MJP8	100
1 1/4 in	26KZ06	100	—	—	—	—
1 1/2 in	26KZ07	100	—	—	—	—
1 3/4 in	26KZ08	100	—	—	—	—
2 in	26KZ09	100	—	—	—	—
2 1/4 in	26KZ10	100	—	—	—	—
2 1/2 in	26KZ11	100	—	—	—	—
#8-36 Thread, 3/32 in Drive						
3/8 in	26LD29	100	—	—	—	—
1/2 in	26LD30	100	—	—	—	—
5/8 in	26LD31	100	—	—	—	—
3/4 in	26LD32	100	—	—	—	—
1 in	26LD33	100	—	—	—	—
#10-24 Thread, 1/8 in Drive						
1/4 in	26KZ12	100	—	—	—	—
3/8 in	—	—	4XU70	100	—	—
7/16 in	26KZ14	100	—	—	—	—
1/2 in	26KZ15	100	—	—	5MJR0	100
5/8 in	26KZ16	100	—	—	5MJR1	100
3/4 in	26KZ17	100	—	—	5MJR2	100
7/8 in	26KZ18	100	—	—	—	—
1 in	26KZ19	100	—	—	5MJR3	100
1 1/4 in	26KZ20	100	—	—	5MJR4	100
1 1/2 in	26KZ21	100	—	—	5MJV2	100
1 3/4 in	26KZ22	100	—	—	—	—
2 in	26KZ23	100	—	—	—	—
2 1/4 in	26KZ24	100	—	—	—	—
2 1/2 in	26KZ25	100	—	—	—	—
3 in	26KZ26	100	—	—	—	—
#10-32 Thread, 1/8 in Drive						
1/4 in	26LD34	100	—	—	—	—
3/8 in	—	—	4XY10	100	5YPV7	100
1/2 in	26LD37	100	—	—	5MJR5	100
5/8 in	—	—	4XY12	100	5MJR6	100
3/4 in	26LD38	100	—	—	5MJR7	100
7/8 in	26LD39	100	—	—	—	—
1 in	26LD40	100	—	—	5MJR8	100
1 1/4 in	26LD42	100	—	—	5MJR9	100
1 1/2 in	26LD43	100	—	—	5MJV3	100
1 3/4 in	26LD44	100	—	—	—	—
2 in	26LD45	100	—	—	—	—
2 1/4 in	26LD46	100	—	—	—	—
2 1/2 in	26LD47	100	—	—	—	—
3 in	26LD48	100	—	—	—	—
1/4"-20 Thread, 5/32 in Drive						
3/8 in	—	—	4XU74	100	5MJT0	100
1/2 in	26KZ27	100	—	—	5MJT1	100
5/8 in	26KZ28	100	—	—	5MJT2	100
3/4 in	26KZ29	100	—	—	5MJT3	100
7/8 in	26KZ30	100	—	—	—	—
1 in	26KZ31	100	—	—	5MJT4	100
1 1/4 in	26KZ33	100	—	—	5MJT5	100
1 1/2 in	26KZ34	100	—	—	5MJT6	100
1 3/4 in	26KZ35	100	—	—	5MJV4	100
2 in	26KZ36	50	5MYP7	100	5MJV5	100
2 1/4 in	26KZ37	50	—	—	—	—
2 1/2 in	26KZ38	50	—	—	—	—
2 3/4 in	26KZ39	50	—	—	—	—
3 in	26KZ40	25	—	—	—	—
3 1/2 in	26KZ41	25	—	—	—	—
4 in	26KZ42	25	—	—	—	—
1/4"-28 Thread, 5/32 in Drive						
3/8 in	26LD49	100	—	—	5MJT7	100
1/2 in	26LD50	100	—	—	5MJT8	100
5/8 in	26LD51	100	—	—	5MJT9	100
3/4 in	26LD52	100	—	—	5MJU0	100
7/8 in	26LD53	100	—	—	—	—
1 in	26LD54	100	—	—	5MJU1	100
1 1/4 in	26LD55	100	—	—	5MJU2	100
1 1/2 in	26LD56	100	—	—	5MJU3	100
1 3/4 in	26LD57	100	5MYH3	25	—	—
2 in	26LD58	50	5MYH4	25	—	—
2 1/4 in	26LD59	50	—	—	—	—
2 1/2 in	26LD60	50	—	—	—	—
3 in	26LD61	25	—	—	—	—
3 1/2 in	26LD62	25	—	—	—	—
5/16"-18 Thread, 3/16 in Drive						
1/2 in	26KZ44	100	—	—	5YPT1	100
5/8 in	26KZ45	100	—	—	5YPT2	100
3/4 in	26KZ46	100	—	—	5YPT3	100
7/8 in	26KZ47	100	—	—	—	—
1 in	26KZ48	50	—	—	5YPT4	100
1 1/4 in	26KZ50	50	—	—	—	—
1 1/2 in	26KZ51	50	—	—	—	—
1 3/4 in	26KZ52	50	—	—	5MJV6	100
2 in	26KZ53	50	—	—	5MJV7	100
2 1/4 in	26KZ54	25	5MYH6	50	5MJV8	100
2 1/2 in	26KZ55	25	—	—	5MJV9	100
2 3/4 in	26KZ56	25	—	—	—	—
3 in	26KZ57	25	—	—	—	—
3 1/2 in	26KZ58	25	—	—	—	—
4 in	26KZ59	10	—	—	—	—
5/16"-24 Thread, 3/16 in Drive						
1/2 in	26LD64	100	—	—	5YPV9	100
5/8 in	26LD65	100	—	—	5YPW0	100
3/4 in	26LD66	100	—	—	5YPW1	100
7/8 in	26LD67	100	—	—	—	—
1 in	26LD68	50	—	—	5YPW2	100
1 1/4 in	26LD69	50	5MYG8	100	5YPW3	100
1 1/2 in	26LD70	50	—	—	—	—
1 3/4 in	26LD71	50	5MYG9	25	—	—
2 in	26LD72	50	—	—	—	—
2 1/4 in	26LD73	25	—	—	—	—
2 1/2 in	26LD74	25	—	—	—	—
3 in	26LD75	25	—	—	—	—
3 1/2 in	26LD76	25	—	—	—	—
3/8"-16 Thread, 7/32 in Drive						
1/2 in	26KZ60	50	—	—	5YPT5	100
5/8 in	26KZ61	50	—	—	5YPT6	100
3/4 in	26KZ62	50	—	—	5YPT7	100
7/8 in	26KZ63	50	—	—	—	—
1 in	26KZ64	50	—	—	5RVL2	100
1 1/4 in	26KZ65	50	—	—	—	—
1 1/2 in	26KZ67	25	—	—	5YPT8	100
1 3/4 in	26KZ68	25	—	—	5RVL4	50
2 in	26KZ69	25	5MYP6	50	—	—
2 1/4 in	26KZ70	25	5MYH7	50	5MJW0	50
2 1/2 in	26KZ71	25	—	—	5MJW1	50
2 3/4 in	26KZ72	25	—	—	—	—
3 in	26KZ73	10	5MYH9	25	5YPT9	50
3 1/2 in	26KZ74	10	—	—	—	—
4 in	26KZ75	10	—	—	—	—
4 1/2 in	26KZ76	10	—	—	—	—
5 in	26KZ77	10	—	—	—	—
5 1/2 in	26KZ78	10	—	—	—	—
6 in	26KZ79	10	—	—	—	—
3/8"-24 Thread, 7/32 in Drive						
5/8 in	26LD78	50	—	—	5YPW4	100
3/4 in	26LD79	50	—	—	5YPW5	100
1 in	26LD81	50	—	—	5YPW6	100
1 1/4 in	26LD82	50	—	—	5YPW7	100
1 1/2 in	26LD83	25	—	—	5YPW8	100
1 3/4 in	26LD84	25	—	—	—	—
2 in	26LD85	25	—	—	—	—
2 1/4 in	26LD86	25	—	—	—	—
2 1/2 in	26LD87	25	—	—	—	—
2 3/4 in	26LD88	25	—	—	—	—
3 in	26LD89	10	—	—	—	—
3 1/4 in	26LD90	10	—	—	—	—
3 1/2 in	26LD91	10	—	—	—	—
7/16"-14 Thread, 1/4 in Drive						
3/4 in	26KZ80	25	—	—	5MJU4	100
1 in	26KZ82	25	—	—	5MJU5	100
1 1/4 in	26KZ83	25	—	—	5MJU6	50
1 1/2 in	26KZ84	25	—	—	5MJU7	50
1 3/4 in	26KZ85	10	5MYH2	25	—	—
2 in	26KZ86	10	—	—	—	—
2 1/4 in	26KZ87	10	—	—	—	—
2 1/2 in	26KZ88	10	—	—	—	—
3 in	26KZ89	10	—	—	—	—
3 1/2 in	26KZ90	5	—	—	—	—
4 in	26KZ91	5	—	—	—	—
7/16"-20 Thread, 1/4 in Drive						
3/4 in	26LD92	25	—	—	—	—
1 in	26LD93	25	—	—	—	—
1 1/4 in	26LD94	25	—	—	—	—
1 1/2 in	26LD95	25	—	—	—	—
1 3/4 in	26LD96	10	—	—	—	—
2 in	26LD97	10	—	—	—	—
2 1/2 in	26LD98	10	—	—	—	—
3 in	26LD99	10	—	—	—	—
1/2"-13 Thread, 5/16 in Drive						
3/4 in	26KZ92	10	—	—	5YPV0	50
1 in	26KZ94	10	—	—	5YPV1	50
1 1/4 in	26KZ95	10	—	—	5YPV2	50
1 1/2 in	26KZ97	10	—	—	5YPV3	50
1 3/4 in	26KZ98	10	—	—	5YPV4	50
2 1/2 in	—	—	22TX94	10	—	—
2 in	26KZ99	10	—	—	5YPV5	50
2 1/4 in	26LA01	10	—	—	5YPV6	25
2 3/4 in	26LA02	10	—	—	—	—
3 in	26LA03	5	5MYP8	25	—	—
3 1/4 in	26LA04	5	—	—	—	—
3 1/2 in	26LA05	5	—	—	—	—
4 in	26LA06	5	—	—	—	—
4 1/2 in	26LA07	5	—	—	—	—
5 in	26LA08	5	—	—	—	—
5 1/2 in	26LA09	5	—	—	—	—
6 in	26LA10	5	—	—	—	—
1/2"-20 Thread, 5/16 in Drive						
3/4 in	26LE01	10	—	—	5YPV8	50
1 in	26LE02	10	—	—	5YPW9	50
1 1/4 in	26LE03	10	—	—	5YPX0	50
1 1/2 in	26LE04	10	—	—	5YPX1	50
1 3/4 in	26LE05	10	—	—	5YPX2	50
2 in	26LE06	10	—	—	5YPX3	50
2 1/4 in	26LE07	10	—	—	—	—
2 1/2 in	26LE08	10	—	—	—	—
3 in	26LE09	5	—	—	—	—
3 1/2 in	26LE10	5	—	—	—	—
4 in	26LE11	5	—	—	—	—
5/8"-11 Thread, 3/8 in Drive						
1 in	26LA13	10	—	—	—	—
1 1/4 in	26LA14	10	—	—	5RVL6	25
1 1/2 in	26LA15	10	—	—	—	—
1 3/4 in	26LA16	10	—	—	—	—
2 in	26LA17	5	—	—	—	—
2 1/4 in	26LA18	5	—	—	5MJU8	25
2 1/2 in	26LA19	5	—	—	5MJU9	25
2 3/4 in	26LA20	5	—	—	—	—
3 in	26LA21	5	5RVN0	25	—	—
3 1/2 in	26LA22	5	—	—	—	—
4 in	26LA23	5	—	—	—	—
4 1/2 in	26LA24	5	—	—	—	—
5 in	26LA25	5	—	—	—	—
5 1/2 in	26LA26	5	—	—	—	—
6 in	26LA27	5	—	—	—	—
6 1/2 in	26LA28	5	—	—	—	—
7 in	26LA29	5	—	—	—	—
8 in	26LA30	5	—	—	—	—
5/8"-18 Thread, 3/8 in Drive						
1 in	26LE12	10	—	—	—	—
1 1/4 in	26LE13	10	—	—	—	—
1 1/2 in	26LE14	10	—	—	—	—
1 3/4 in	26LE15	10	—	—	—	—
2 in	26LE16	5	—	—	—	—
2 1/4 in	26LE17	5	—	—	—	—
2 1/2 in	26LE18	5	—	—	—	—
3 in	26LE19	5	—	—	—	—
3 1/2 in	26LE20	5	—	—	—	—
4 in	26LE21	5	—	—	—	—
3/4"-10 Thread, 1/2 in Drive						
1 in	26LA31	5	—	—	—	—
1 1/4 in	26LA32	5	—	—	—	—
1 1/2 in	26LA33	5	5RVN1	25	—	—
1 3/4 in	26LA34	5	—	—	—	—
2 in	26LA35	5	5RVN3	25	—	—
2 1/4 in	26LA36	5	—	—	—	—
2 1/2 in	26LA37	5	—	—	5MJV0	25
3 in	26LA39	5	—	—	5MJV1	25
3 1/4 in	26LA40	5	—	—	—	—
3 1/2 in	26LA41	5	—	—	—	—
4 in	26LA42	5	—	—	—	—
4 1/2 in	26LA43	5	—	—	—	—
5 in	26LA44	5	—	—	—	—
6 in	26LA45	5	—	—	—	—
3/4"-16 Thread, 1/2 in Drive						
1 1/4 in	26LE22	5	—	—	—	—
1 1/2 in	26LE23	5	—	—	—	—
1 3/4 in	26LE24	5	—	—	—	—
2 in	26LE25	5	—	—	—	—
2 1/4 in	26LE26	5	—	—	—	—
2 1/2 in	26LE27	5	—	—	—	—
3 in	26LE28	5	1BE72	5	—	—
3 1/2 in	26LE29	5	—	—	—	—
4 in	26LE30	5	—	—	—	—
7/8"-9 Thread, 9/16 in Drive						
2 in	26LA49	5	—	—	—	—
2 1/2 in	26LA50	5	—	—	—	—
3 in	26LA51	5	—	—	—	—
3 1/2 in	26LA52	5	—	—	—	—
4 in	26LA53	5	—	—	—	—
4 1/2 in	26LA54	5	—	—	—	—
5 in	26LA55	5	—	—	—	—
6 in	26LA56	1	—	—	—	—
1"-8 Thread, 5/8 in Drive						
2 in	26LA60	5	—	—	—	—
2 1/4 in	26LA61	5	—	—	—	—
2 1/2 in	26LA62	5	—	—	—	—
2 3/4 in	26LA63	5	—	—	—	—
3 in	26LA64	5	1BE78	1	—	—
3 1/2 in	26LA65	5	—	—	—	—
4 in	26LA66	5	—	—	—	—
4 1/2 in	26LA67	5	—	—	—	—
5 in	26LA68	5	—	—	—	—
6 in	26LA69	1	—	—	—	—
1 1/4"-7 Thread, 7/8 in Drive						
3 in	26LA73	1	—	—	—	—
3 1/2 in	26LA74	1	—	—	—	—
4 in	26LA75	1	—	—	—	—
5 in	26LA76	1	—	—	—	—



18-8 Stainless Steel Flat-Head Cap Screws

Length	Item No.	Pkg. Qty.
#0-80 Thread, 7/200 in Drive		
⅛ in	**26LE31**	100
3/16 in	**26LE32**	100
¼ in	**26LE33**	100
5/16 in	**26LE34**	100
⅜ in	**26LE35**	100
½ in	**26LE36**	100
#1-72 Thread, 1/20 in Drive		
⅛ in	**26LE37**	100
3/16 in	**26LE38**	100
¼ in	**26LE39**	100
5/16 in	**26LE40**	100
⅜ in	**26LE41**	100
½ in	**26LE42**	100
#2-56 Thread, 1/20 in Drive		
—	**2WA55**	100
—	**2WA56**	100
⅛ in	**29DP93**	100
3/16 in	**2WA54**	100
5/16 in	**2WA57**	100
7/16 in	**2WA58**	100
⅝ in	**26LA80**	100
¾ in	**26LA81**	100
⅞ in	**26LA82**	100
1 in	**29DP94**	100
#3-48 Thread, 1/16 in Drive		
3/16 in	**26LA83**	100
¼ in	**26LA84**	100
5/16 in	**26LA85**	100
⅜ in	**26LA86**	100
½ in	**26LA87**	100
⅝ in	**26LA88**	100
¾ in	**26LA89**	100
1 in	**26LA90**	100
#4-40 Thread, 1/16 in Drive		
3/16 in	**5WEX3**	100
¼ in	**5WEX4**	100
5/16 in	**5WEX5**	100
⅜ in	**5WEX6**	100
7/16 in	**29DP95**	100
½ in	**5WEX7**	100
⅝ in	**5WEX8**	100
¾ in	**26LA91**	100
1 in	**26LA92**	100
#5-40 Thread, 5/64 in Drive		
¼ in	**26LA93**	100
5/16 in	**26LA94**	100
⅜ in	**26LA95**	100
½ in	**26LA96**	100
⅝ in	**26LA97**	100
¾ in	**26LA98**	100
1 in	**26LA99**	100
#6-32 Thread, 5/64 in Drive		
¼ in	**5WEX9**	100
5/16 in	**5WEY0**	100
⅜ in	**5WEY1**	100
7/16 in	**5WEY2**	100
½ in	**5WEY3**	100
⅝ in	**5WEY4**	100
¾ in	**5WEY5**	100
⅞ in	**26LC01**	100
1 ¼ in	**26LC02**	100
1 ½ in	**26LC03**	100
1 in	**5WEY6**	100
#6-40 Thread, 5/64 in Drive		
⅜ in	**26LE43**	100
1 in	**26LE44**	100
#8-32 Thread, 3/32 in Drive		
¼ in	**5WEY7**	100
5/16 in	**26LC04**	100
⅜ in	**5WEY8**	100
7/16 in	**5WEY9**	100
½ in	**5WEZ0**	100
⅝ in	**5WEZ1**	100
¾ in	**5WEZ2**	100
⅞ in	**26LC05**	100
1 ¼ in	**26LC06**	100
1 ½ in	**26LC07**	100
1 ¾ in	**26LC08**	100
1 in	**5WEZ3**	100
#10-24 Thread, ⅛ in Drive		
5/16 in	**26LC09**	100
⅜ in	**5WEZ4**	100
7/16 in	**26LC10**	100
½ in	**5WEZ5**	100
⅝ in	**5WEZ6**	100
¾ in	**5WEZ7**	100
⅞ in	**26LC11**	100
1 ¾ in	**29DP96**	100
1 in	**5WEZ8**	100
1 ¼ in	**5WEZ9**	100
1 ½ in	**5WFE5**	100
2 in	**29DP97**	100
#10-32 Thread, ⅛ in Drive		
5/16 in	**26LE45**	100
⅜ in	**5WFA0**	100
7/16 in	**26LE46**	100
½ in	**5WFA1**	100
⅝ in	**5WFA2**	100
¾ in	**5WFA3**	100
⅞ in	**5WFA4**	100
1 ¾ in	**26LE47**	100
1 in	**5WFA5**	100
1 ¼ in	**5WFA6**	100
1 ½ in	**5WFE6**	100
2 in	**26LE48**	100
2 ¼ in	**26LE49**	100
¼"-20 Thread, 5/32 in Drive		
⅜ in	**5WFA7**	100
½ in	**5WFA8**	100
⅝ in	**5WFA9**	100
¾ in	**5WFC0**	100
⅞ in	**5WFC1**	100
1 in	**22TX97**	100
1 ¼ in	**22TX98**	100
1 ½ in	**22TX99**	100
1 ¾ in	**22TY01**	100
2 ½ in	**22TY02**	50
2 in	**26LC12**	50
¼"-28 Thread, 5/32 in Drive		
⅜ in	**26LE50**	100
½ in	**26LE51**	100
⅝ in	**26LE52**	100
¾ in	**26LE53**	100
⅞ in	**26LE54**	100
1 in	**26LE55**	100
1 ¼ in	**26LE56**	100
1 ½ in	**26LE57**	100
1 ¾ in	**26LE58**	100
2 in	**26LE59**	50
5/16"-18 Thread, 3/16 in Drive		
½ in	**22TY03**	100
⅝ in	**22TY04**	100
¾ in	**22TY05**	100
⅞ in	**26LC14**	100
1 in	**22TY06**	50
1 ¼ in	**22TY07**	50
1 ½ in	**22TY08**	50
1 ¾ in	**22TY09**	50
2 in	**22TY10**	50
2 ½ in	**22TY11**	25
2 ¼ in	**26LC15**	25
3 in	**26LC16**	25
⅜"-16 Thread, 7/32 in Drive		
½ in	**26LC17**	50
⅝ in	**26LC18**	50
¾ in	**26LC19**	50
⅞ in	**26LC20**	50
1 in	**22TY12**	50
1 ¼ in	**22TY13**	50
1 ½ in	**22TY14**	25
1 ¾ in	**22TY15**	25
2 in	**22TY16**	25
2 ¼ in	**26LC21**	25
2 ½ in	**26LC22**	25
3 in	**26LC23**	10
½"-13 Thread, 5/16 in Drive		
¾ in	**5WFD9**	10
⅞ in	**26LC24**	10
1 in	**5WFE0**	10
1 ¼ in	**5WFE1**	10
1 ½ in	**5WFE2**	10
1 ¾ in	**5WFE3**	10
2 in	**22TY17**	10
2 ½ in	**22TY18**	10
2 ¼ in	**26LC25**	10
3 ½ in	**26LC26**	5
3 in	**2WB39**	5
4 in	**26LC27**	5
⅝"-11 Thread, ⅜ in Drive		
1 in	**26LC28**	10
1 ¼ in	**26LC29**	10
1 ½ in	**26LC30**	10
1 ¾ in	**26LC31**	10
2 in	**26LC32**	5
2 ¼ in	**26LC33**	5
2 ½ in	**26LC34**	5
3 in	**26LC35**	5
3 ½ in	**26LC36**	5
4 in	**26LC37**	5
¾"-10 Thread, ½ in Drive		
1 ¼ in	**26LC38**	5
1 ½ in	**26LC39**	5
1 ¾ in	**26LC40**	5
2 in	**26LC41**	5
2 ½ in	**26LC42**	5
3 in	**26LC43**	5
3 ½ in	**26LC44**	5
4 in	**26LC45**	5



Metric Alloy Steel Flat-Head Cap Screws

Length	A2 Stainless Steel Plain Item No.	A2 Stainless Steel Plain Pkg. Qty.	A4 Stainless Steel Plain Item No.	A4 Stainless Steel Plain Pkg. Qty.
M2-0.40 Thread, 1.3 mm Drive				
8 mm	—	—	6DV38	10
10 mm	—	—	6DV39	10
12 mm	—	—	6DV40	10
16 mm	—	—	6DV41	10
M3-0.50 Thread, 2 mm Drive				
6 mm	—	—	6DV42	50
8 mm	—	—	6DV43	100
10 mm	—	—	6DV44	100
12 mm	—	—	6DV45	100
14 mm	38DZ75	50	—	—
16 mm	—	—	6DV46	100
20 mm	—	—	6DV47	100
25 mm	—	—	6DV48	50
30 mm	6DV87	50	—	—
40 mm	38DZ76	50	—	—
M4-0.70 Thread, 2.5 mm Drive				
6 mm	—	—	6DV49	100
8 mm	—	—	26LF84	50
10 mm	—	—	26LF85	50
12 mm	—	—	26LF86	50
14 mm	38DZ77	50	—	—
16 mm	—	—	26LF87	50
18 mm	26LF48	50	—	—
20 mm	—	—	26LF88	50
25 mm	—	—	6DV55	25
30 mm	—	—	6DV56	10
40 mm	29DJ60	50	29DK20	50
45 mm	6DV98	50	—	—
50 mm	26LF51	50	—	—
M5-0.80 Thread, 3 mm Drive				
8 mm	—	—	26LF89	50
10 mm	—	—	26LF90	50
12 mm	—	—	38EC03	50
16 mm	—	—	26LF91	50
18 mm	6DY15	50	—	—
20 mm	26LF55	50	26LF92	50
25 mm	26LF56	50	38EC04	50
30 mm	29DJ62	50	26LF93	50
40 mm	26LF57	50	26LF94	50
60 mm	38DZ78	50	—	—
M6-1.00 Thread, 4 mm Drive				
8 mm	26LF58	50	26LF95	50
10 mm	26LF59	50	26LF96	50
12 mm	26LF60	50	26LF97	50
14 mm	6DY26	50	—	—
16 mm	26LF61	50	26LF98	50
18 mm	38DZ79	50	—	—
20 mm	26LF62	50	26LF99	50
25 mm	26LF63	50	38EC05	50
30 mm	29DJ63	50	26LG01	50
35 mm	29DJ64	50	26LG02	50
40 mm	26LF64	50	26LG03	50
50 mm	26LF65	50	29DK21	50
55 mm	38DZ80	50	—	—
60 mm	—	—	26LG04	50
M8-1.25 Thread, 5 mm Drive				
12 mm	26LF66	50	26LG05	50
14 mm	6DY40	25	—	—
16 mm	26LF67	50	26LG06	50
20 mm	26LF68	50	26LG07	50
25 mm	26LF69	50	26LG08	50
30 mm	26LF70	50	26LG09	50
35 mm	26LF71	50	6DV75	5
40 mm	26LF72	50	38EC06	50
50 mm	26LF73	50	38EC07	50
55 mm	38DZ81	50	—	—
M10-1.50 Thread, 6 mm Drive				
16 mm	29DJ65	50	26LG10	50
20 mm	26LF74	50	26LG11	50
25 mm	26LF75	50	38EC08	50
30 mm	26LF76	50	26LG12	50
40 mm	26LF77	25	29DK22	25
45 mm	38DZ82	25	—	—
50 mm	26LF78	25	29DK23	25
55 mm	38DZ83	25	—	—
80 mm	38DZ84	25	—	—
90 mm	38DZ85	25	—	—
120 mm	38DZ86	25	—	—
M12-1.75 Thread, 8 mm Drive				
20 mm	29DJ66	25	26LG13	25
25 mm	26LF79	25	38EC09	25
30 mm	29DJ67	25	26LG14	25
40 mm	26LF80	25	29DK24	25
45 mm	38DZ87	25	—	—
50 mm	26LF81	25	26LG15	25
90 mm	38DZ88	10	—	—
100 mm	38DZ89	10	—	—
M16-2.00 Thread, 10 mm Drive				
30 mm	26LF82	10	—	—
50 mm	26LF83	10	—	—
70 mm	38DZ90	10	—	—
M20-2.50 Thread, 12 mm Drive				
50 mm	38DZ91	10	—	—

Metric Alloy Steel Button-Head Cap Screws

Meet ISO 7380 standards.

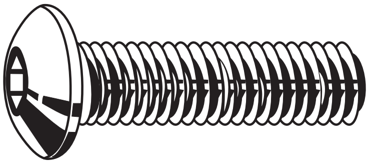
Length	Class 10.9 Steel Black Oxide Item No.	Class 10.9 Steel Black Oxide Pkg. Qty.	A2 Stainless Steel Plain Item No.	A2 Stainless Steel Plain Pkg. Qty.
M2-0.40 Thread, 1.3 mm Drive				
3 mm	6EB89	10	—	—
4 mm	6EB90	10	—	—
6 mm	6EB91	10	—	—
12 mm	6EB92	10	—	—
M2.5-0.45 Thread, 1.5 mm Drive				
3 mm	6EB93	10	—	—
6 mm	6EB94	10	—	—
12 mm	6EB95	10	—	—
M3-0.50 Thread, 2 mm Drive				
5 mm	6EB96	50	—	—
10 mm	—	—	6EB15	100
14 mm	6EE11	100	6EB17	100
30 mm	—	—	6EB21	100
40 mm	—	—	6EB22	25
M4-0.70 Thread, 2.5 mm Drive				
14 mm	6EE19	100	6EB27	50
20 mm	—	—	6EB29	50
40 mm	—	—	6EB33	25
50 mm	—	—	6EB34	10
M5-0.80 Thread, 3 mm Drive				
14 mm	6EE30	100	6EB38	50
18 mm	6EE32	100	—	—
20 mm	—	—	6EB40	50
22 mm	6EE34	100	—	—
60 mm	—	—	6EB46	10
M6-1.00 Thread, 4 mm Drive				
8 mm	6EE40	100	—	—
10 mm	6EE41	100	—	—
12 mm	6EE42	100	6EB49	50
14 mm	6EE43	100	—	—
16 mm	6EE44	100	—	—
18 mm	6EE45	50	—	—
20 mm	6EE46	100	—	—
22 mm	6EE47	50	—	—
30 mm	6EE49	100	—	—
M8-1.25 Thread, 5 mm Drive				
18 mm	6EE60	50	—	—
M10-1.50 Thread, 6 mm Drive				
18 mm	6EE73	5	—	—
M12-1.75 Thread, 8 mm Drive				
16 mm	6EE81	5	—	—
45 mm	—	—	6EB85	5
55 mm	—	—	6EB87	5
60 mm	—	—	6EB88	5

Alloy Steel Low Head Cap Screws

- Black oxide finish

Meet ASTM A574, ASME B18.3 standard.

L	Item No.	Pkg. Qty.
#8-32 Thread Size 5/64 in Drive Size		
⅜"	1AYK7	100
⅜"	5YPX4	100
½"	1AYK8	100
½"	5YPX5	100
¾"	1AYK9	100
¾"	5YPX6	100
1"	1AYL1	100
1"	5YPX7	100
#10-24 Thread Size 3/32 in Drive Size		
⅜"	1AYL2	100
#10-24 Thread Size 5/32 in Drive Size		
⅜"	5YPX8	100
½"	1AYL3	100
#10-24 Thread Size 3/32 in Drive Size		
½"	5YPX9	100
¾"	1AYL4	100
#10-24 Thread Size 5/32 in Drive Size		
¾"	5YPY0	100
#10-32 Thread Size 5/32 in Drive Size		
⅜"	1AYL5	100
#10-32 Thread Size 3/32 in Drive Size		
½"	1AYL6	100
⅝"	1AYL7	100
¾"	1AYL8	100
¼"-20 Thread Size ⅛ in Drive Size		
⅜"	1AYL9	100
⅜"	5YPY1	100
½"	1AYN1	100
½"	5YPY2	100
⅝"	1AYN2	100
⅝"	5YPY3	100
¾"	1AYN3	100
¾"	5YPY4	100
1"	1AYN4	50
1"	5YPY5	100
5/16"-18 Thread Size 5/32 in Drive Size		
½"	1AYN5	50
½"	5YPY6	100
¾"	1AYN6	25
¾"	5YPY7	100
1"	1AYN7	25
1"	5YPY8	100
1¼"	1AYN8	25
1¼"	5YPY9	100
1½"	1AYN9	25
5/16"-18 Thread Size 5/16 in Drive Size		
1½"	5YPZ0	100
⅜"-16 Thread Size 3/16 in Drive Size		
½"	1AYP1	25
½"	5YPZ1	100
¾"	1AYP2	25
¾"	5YPZ2	100
1"	1AYP3	25
1"	5YPZ3	100
1¼"	1AYP4	25
1¼"	5YPZ4	100
1½"	1AYP5	25
1½"	5YPZ5	100
½"-13 Thread Size ¼ in Drive Size		
1"	1AYP6	10
1"	5YPZ6	50
1⅛"	1AYP8	10
1¼"	1AYP7	10
1¼"	5YPZ7	50
1½"	5YPZ8	50



Alloy Steel Button-Head Cap Screws

- Meet ASME B18.3 and ASTM standards

Length	18-8 Stainless Steel Plain Item No.	Pkg. Qty.	Alloy Steel Black Oxide Item No.	Pkg. Qty.	Steel Black Oxide Item No.	Pkg. Qty.
#0-80 Thread, 7/200 in Drive						
1/8"	26LE87	100	29DL76	100	—	—
3/16"	26LE88	100	29DL77	100	—	—
1/4"	26LE89	100	29DL78	100	—	—
5/16"	26LE90	100	29DL79	100	—	—
3/8"	26LE91	100	29DL80	100	—	—
1/2"	26LE92	100	29DL81	100	—	—
#1-64 Thread, 1/20 in Drive						
3/8"	26LE61	100	—	—	—	—
1/2"	26LE62	100	29DL49	100	—	—
3/4"	26LE63	100	29DL50	100	—	—
#1-64 Thread, 1/8 in Drive						
3/8"	—	—	29DL48	100	—	—
#1-72 Thread, 1/20 in Drive						
1/8"	26LE93	100	—	—	—	—
3/16"	26LE94	100	29DL83	100	—	—
1/4"	26LE95	100	29DL84	100	—	—
5/16"	26LE96	100	29DL85	100	—	—
3/8"	26LE97	100	29DL86	100	—	—
1/2"	26LE98	100	29DL87	100	—	—
5/8"	26LE99	100	—	—	—	—
3/4"	26LF01	100	29DL89	100	—	—
1 1/4"	—	—	29DL88	100	—	—
#2-56 Thread, 1/20 in Drive						
1/8"	2WB40	100	1BE80	100	—	—
3/16"	2WB41	100	1BE82	100	—	—
1/4"	2WB42	100	1BE84	100	—	—
5/16"	2WB43	100	1BE86	100	—	—
3/8"	2WB44	100	1BE88	100	—	—
1/2"	2WB45	100	1BE90	100	—	—
5/8"	2WB46	100	29DL51	100	—	—
3/4"	22TY44	100	29DL52	100	—	—
1"	29DP79	100	29DL53	100	—	—
#3-48 Thread, 1/16 in Drive						
3/16"	26LE64	100	1BE92	100	—	—
1/4"	26LE65	100	1BE93	100	—	—
5/16"	26LE66	100	29DL54	100	—	—
3/8"	26LE67	100	1BE95	100	—	—
1/2"	26LE68	100	29DL55	100	—	—
5/8"	—	—	29DL56	100	—	—
3/4"	29DP81	100	29DL57	100	—	—
1"	29DP82	100	29DL58	100	—	—
#4-40 Thread, 1/16 in Drive						
1/8"	2WB48	100	22TY19	100	—	—
3/16"	2WB49	100	1BE99	100	5YPN6	100
1/4"	2WB50	100	1BU11	100	5YPN7	100
5/16"	2WB51	100	1BU13	100	—	—
3/8"	2WB52	100	1BU15	100	5YPN8	100
7/16"	2WB53	100	29DL59	100	—	—
1/2"	2WB54	100	1BU17	100	5YPN9	100
5/8"	2WB55	100	1BU19	100	—	—
3/4"	2WB56	100	22TY20	100	—	—
7/8"	29DP83	100	22TY21	100	—	—
1"	2WB57	100	22TY22	100	—	—
#5-40 Thread, 5/64 in Drive						
1/4"	26LE69	100	1BU27	100	—	—
3/8"	26LE71	100	1BU29	100	—	—
1/2"	26LE72	100	1BU31	100	—	—
5/8"	26LE73	100	—	—	—	—
3/4"	26LE74	100	29DL60	100	—	—
1"	26LE75	100	29DL61	100	—	—
#6-32 Thread, 5/64 in Drive						
1/8"	—	—	1BU33	50	—	—
3/16"	2WB58	100	1BU35	100	—	—
1/4"	2WB59	100	1BU37	100	5YPP0	100
5/16"	2WB60	100	1BU39	100	—	—
3/8"	2WB61	100	1BU41	100	5YPP1	100
1/2"	2WB63	100	1BU43	100	5YPP2	100
5/8"	2WB64	100	1BU45	100	5YPP3	100
3/4"	2WB65	100	22TY23	100	—	—
7/8"	2WB66	100	22TY24	100	—	—
1"	2WB67	100	22TY25	100	—	—
1 1/4"	26LE76	100	22TY26	100	—	—
1 1/2"	22TY45	100	22TY27	100	—	—
2"	—	—	29DL62	100	—	—
#8-32 Thread, 3/32 in Drive						
3/16"	2WB69	100	1BU56	100	—	—
1/4"	2WB70	100	1BU58	100	5YPP4	100
5/16"	2WB71	100	1BU60	100	—	—
3/8"	2WB72	100	1BU62	100	5MJW2	100
1/2"	2WB73	100	1BU64	100	5MJW3	100
5/8"	2WB74	100	1BU66	100	5MJW4	100
3/4"	2WB75	100	1BU68	100	5MJW5	100
7/8"	2WB76	100	—	—	—	—
1"	2WB77	100	1BU70	100	5YPP5	100
1 1/4"	26LE78	100	22TY28	100	—	—
1 1/2"	2WB78	100	22TY29	100	—	—
2"	—	—	22TY30	100	—	—
#10-24 Thread, 1/8 in Drive						
1/4"	2WB79	100	1BU78	100	5YPP6	100
3/8"	2WB81	100	—	—	5YPP7	100
1/2"	2WB82	100	1BU82	100	5MJW6	100
5/8"	26LE79	100	1BU84	100	5MJW7	100
3/4"	2WB84	100	1BU86	100	5MJW8	100
7/8"	2WB85	100	1BU88	100	5MJW9	100
1"	2WB86	100	1BU90	100	5MJX0	100
1 1/4"	2WB87	100	22TY31	100	—	—
1 1/2"	22TY46	100	22TY32	100	—	—
1 3/4"	26LE81	100	—	—	—	—
2"	22TY47	100	22TW51	100	—	—
#10-32 Thread, 1/8 in Drive						
1/4"	2WB90	100	1BU98	100	5YPP9	100
5/16"	2WB91	100	1BY10	100	—	—
3/8"	2WB92	100	1BY12	100	—	—
	—	—	5RVN5	100	—	—
1/2"	2WB94	100	1BY14	100	5MJX1	100
5/8"	2WB95	100	1BY16	100	5MJX2	100
3/4"	2WB96	100	1BY18	100	5MJX3	100
7/8"	2WB97	100	1BY20	100	5MJX4	100
1"	2WB98	100	1BY22	100	5MJX5	100
1 1/4"	2WB99	100	22TZ19	100	—	—
1 1/2"	22TZ25	100	22TZ20	100	—	—
1 3/4"	26LF02	100	22TZ21	100	—	—
2"	26LF03	100	22TW68	100	—	—
1/4"-20 Thread, 5/32 in Drive						
1/4"	—	—	1BY31	50	—	—
3/8"	3AXA4	100	1BY33	100	5MJX6	100
1/2"	3AWZ2	100	1BY35	100	5MJX7	100
5/8"	3AWZ4	100	1BY37	100	5MJX8	100
3/4"	3AWZ1	100	1BY39	100	5MJX9	100
7/8"	3AWZ6	100	5MYJ2	100	5MJY0	100
1"	22TY50	100	1BY43	100	—	—
	—	—	5YPP8	50	—	—
1 1/4"	22TY51	100	5MYJ3	50	—	—
1 1/2"	22TY52	100	29DL63	100	—	—
1 3/4"	22TY53	100	5MYJ5	50	—	—
2"	3AWZ5	50	1BY51	50	—	—
2 1/2"	—	—	22TY33	50	—	—
3"	—	—	1BY55	25	—	—
3 1/2"	—	—	29DL64	25	—	—
1/4"-28 Thread, 5/32 in Drive						
1/4"	—	—	1BY57	50	—	—
3/8"	—	—	1BY59	100	5MJY1	100
1/2"	—	—	1BY61	100	5MJY2	100
5/8"	—	—	1BY63	100	5MJY3	100
3/4"	—	—	1BY65	100	5MJY4	100
1"	—	—	1BY67	100	5MJY5	100
1 1/2"	—	—	22TZ22	100	—	—
2"	26LF04	50	29DL90	50	—	—
5/16"-18 Thread, 3/16 in Drive						
3/8"	26LE82	100	1BY71	100	5MJY6	100
1/2"	22TY54	100	1BY73	100	5MJY7	100
5/8"	22TY55	100	1BY75	100	5MJY8	100
3/4"	22TY56	100	1BY76	100	5MJY9	100
7/8"	26LE83	100	1BY78	100	5MJZ0	100
1"	22TY57	50	22TW52	50	5MJZ1	100
1 1/4"	22TY58	50	1BY82	50	—	—
1 1/2"	22TY59	50	1BY84	50	—	—
1 3/4"	22TY60	50	—	—	—	—
2"	22TY61	50	22TY37	50	—	—
2 1/4"	—	—	5MYJ6	25	—	—
2 1/2"	—	—	5MYJ7	25	—	—
5/16"-24 Thread, 3/16 in Drive						
3/8"	29DR05	100	1BY92	100	5YPR0	100
1/2"	29DR06	100	1BY94	100	5MJZ2	100
5/8"	—	—	1BY96	100	5MJZ3	100
3/4"	—	—	1BY98	100	5MJZ4	100
1"	29DR07	50	22TW75	50	—	—
1 1/4"	—	—	5MYJ8	50	—	—
1 1/2"	29DR08	50	—	—	—	—
3/8"-16 Thread, 7/32 in Drive						
1/2"	22TY62	50	22TY38	50	5MJZ6	50
5/8"	—	—	22TY39	50	5MJZ7	50
3/4"	22TY63	50	22TY40	50	5MJZ8	50
7/8"	—	—	22TY41	50	5MJZ9	50
1"	22TY64	50	1CA22	50	5MKA0	50
1 1/4"	22TY65	50	1CA24	50	5RVN4	50
1 1/2"	22TY66	25	22TW54	25	—	—
1 3/4"	22TY67	25	1CA28	25	—	—
2"	22TY68	25	29DL65	25	—	—
2 1/4"	—	—	29DL66	25	—	—
2 1/2"	29DP84	25	29DL67	25	—	—
2 3/4"	—	—	1CA36	25	—	—
3"	22TY69	10	5MYK2	25	—	—
3/8"-24 Thread, 7/32 in Drive						
1/2"	—	—	22TZ23	50	5RVN6	50
3/4"	—	—	22TZ24	50	5NTP1	50
1"	—	—	1CA43	50	5YPR2	50
1 1/2"	—	—	5MYK3	50	—	—
1/2"-13 Thread, 5/16 in Drive						
3/4"	—	—	22TW56	10	—	—
1"	22TY70	10	22TW57	10	5MKA1	25
1 1/4"	22TY71	10	22TW62	10	5MKA2	25
1 1/2"	22TY72	10	22TW63	10	5MKA3	25
1 3/4"	22TY73	10	1CA55	10	—	—
2"	26LE84	10	29DL68	10	5MKA4	25
2 1/2"	26LE85	10	29DL69	10	—	—
3"	26LE86	5	29DL70	5	—	—
5/8"-11 Thread, 3/8 in Drive						
1"	—	—	29DL71	10	—	—
1 1/4"	—	—	1CA63	10	5NTP3	25
1 1/2"	—	—	29DL72	10	5NTP4	25
2"	—	—	29DL73	5	5NTP5	25
2 1/2"	—	—	29DL74	5	—	—
3"	—	—	29DL75	5	—	—

Shoulder Screw Information

Also called stripper bolts or shoulder bolts, shoulder screws are used frequently in pulleys and linkages. They also function as precision spacers or guide screws.

SHOULDER SCREW TYPES

Both types of shoulder screws are reusable and come in ISO metric and USS measurements.

Precision (Smooth Head)

Manufactured with more-exacting tolerances. Hex socket drive allows high-torque wrenching. Slotted drive permits deeper access in hard-to-reach places where a hex key can't reach. Phillips drive provides excellent torque control.

Standard (Knurled Head)

Dimensions meet ASME standards for inch sizes and ISO standards for metric sizes. Shoulder dia. tolerances: -0.002" to -0.004". Suitable for use in machinery and other critical mechanical applications. Screws feature a hex socket drive.

SPECIAL VARIATIONS

Hex Head

Allows easy tightening with an adjustable wrench.

Self-Locking

A nylon patch on screw threads bonds with the material being fastened to hold the screw firmly in place and prevent loosening from vibration. Not reusable.

SHOULDER SCREW DIMENSIONS

Standard													
Shoulder Dia.	⅛"	5⁄32"	3⁄16"	7⁄32"	¼"	5⁄16"	⅜"	½"	⅝"	¾"	1"	1 ¼"	1 ½"
Thread Size	#4	#6	#8	#8	#10	¼-20	5⁄16-18	⅜-16	½-13	⅝-11	¾-10	⅞-9	1 ⅛-7
Drive Size	5⁄64"	3⁄32"	3⁄32"	3⁄32"	⅛"	5⁄32"	3⁄16"	¼"	5⁄16"	⅜"	½"	⅝"	⅞"
Thread Length	5⁄32"	3⁄16"	3⁄16"	3⁄16"	¼"	7⁄16"	½"	⅝"	¾"	⅞"	1"	1 ⅛"	1 ½"
Head Dia.	¼"	9⁄32"	5⁄16"	5⁄16"	⅜"	7⁄16"	9⁄16"	¾"	⅞"	1"	1 5⁄16"	1 ¾"	2 ⅛"
Head Height	⅛"	⅛"	5⁄32"	5⁄32"	3⁄16"	7⁄32"	¼"	5⁄16"	⅜"	½"	⅝"	¾"	1"
Metric													
Shoulder Dia.	3mm	4mm	5mm	6mm	8mm	10mm	12mm	16mm	20mm	24mm			
Thread Size	M2 x .40	M3 x .50	M4 x .70	M5 x .80	M6 x 1	M8 x 1.25	M10 x 1.5	M12 x 1.75	M16 x 2	M20 x 2.5			
Drive Size	2mm	2mm	2.5mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm			
Thread Length		5mm	7mm	9.5mm	11mm	13mm	16mm	18mm	22mm	27mm			
Head Dia.	5mm	6mm	9mm	10mm	13mm	16mm	18mm	24mm	30mm	36mm			
Head Height	2mm	3mm	4mm	4.5mm	5.5mm	7mm	9mm	11mm	14mm	16mm			

Shoulder Length	Item No.	Pkg. Qty.
¼ in Shoulder, 10-24 Thread		
¼ in	**1CA69**	25
⅜ in	**4XY17**	25
½ in	**4XY18**	25
⅝ in	**1CA71**	25
¾ in	**4XY19**	25
⅞ in	**1CA73**	10
1 ¾ in	**1CA75**	10
1 ½ in	**31KG26**	10
2 in	**1CA77**	10
2 ¼ in	**1CA79**	10
2 ½ in	**1CA81**	10
3 in	**1CA83**	10
5⁄16 in Shoulder, ¼-20 Thread		
¼ in	**1CA85**	10
½ in	**4XY24**	10
⅞ in	**1CA89**	10
1 ½ in	**1CA90**	5
1 ¾ in	**1CA92**	5
2 in	**1CA94**	5
2 ¼ in	**1CA96**	5
2 ½ in	**1CA98**	5
3 in	**1CB10**	5
⅜ in Shoulder, 5⁄16-18 Thread		
¼ in	**1CB12**	10
⅜ in	**31KG27**	10
½ in	**31KG28**	10
⅝ in	**31KG29**	10
¾ in	**31KG30**	10
⅞ in	**1CB16**	10
1 in	**31KG31**	10
1 ¼ in	**31KG32**	10
1 ½ in	**31KG33**	10
1 ¾ in	**31KG34**	10
2 ¼ in	**1CB18**	5
2 ¾ in	**1CB20**	5
2 ½ in	**31KG36**	5
2 in	**31KG35**	10
3 in	**1CB22**	5
3 ¼ in	**1CB24**	5
3 ½ in	**1CB26**	5
3 ¾ in	**1CB28**	5
4 in	**1CB30**	5
4 ½ in	**1CB32**	5
5 in	**1CB34**	5
6 in	**1CB36**	5
½ in Shoulder, ⅜-16 Thread		
⅜ in	**1CB38**	5
½ in	**4XY37**	5
⅝ in	**1CB40**	5
¾ in	**31KG38**	5
⅞ in	**1CB42**	5
1 in	**31KG41**	5
1 ¼ in	**31KG42**	5
1 ½ in	**31KG43**	5
1 ¾ in	**31KG44**	5
2 ¾ in	**1CB44**	5
2 in	**31KG86**	5
2 ¼ in	**31KG87**	5
2 ½ in	**31KG88**	5
3 ¼ in	**1CB46**	5
3 ½ in	**1CB48**	5
3 ¾ in	**1CB50**	5
3 in	**31KG89**	5
4 in	**1CB52**	5
4 ¼ in	**1CB54**	5
4 ½ in	**1CB56**	5
4 ¾ in	**1CB58**	5
5 ½ in	**1CB62**	1
5 in	**1CB60**	5
6 in	**1CB64**	1
⅝ in Shoulder, ½-13 Thread		
1 ½ in	**1CB66**	1
1 ¾ in	**1CB68**	1
1 ¼ in	**31KG90**	5
2 in	**1CB70**	1
2 ¼ in	**1CB72**	1
2 ½ in	**1CB74**	1
2 ¾ in	**1CB76**	1
3 in	**1CB78**	1
3 ¼ in	**1CB80**	1
3 ½ in	**1CB82**	1
3 ¾ in	**1CB84**	1
4 in	**1CB86**	1
4 ¼ in	**1CB88**	1
4 ½ in	**1CB90**	1
4 ¾ in	**1CB92**	1
5 in	**1CB94**	1
5 ½ in	**1CB96**	1
6 in	**1CB98**	1
¾ in Shoulder, ⅝-11 Thread		
½ in	**1CE10**	1
¾ in	**1CE12**	1
1 in	**1CE14**	1
1 ¼ in	**1CE16**	1
1 ½ in	**1CE18**	1
1 ¾ in	**1CE20**	1
2 in	**1CE22**	1
2 ¼ in	**1CE24**	1
2 ½ in	**1CE26**	1
2 ¾ in	**1CE28**	1
3 in	**1CE30**	1
3 ¼ in	**1CE32**	1
3 ½ in	**1CE34**	1
3 ¾ in	**1CE36**	1
4 in	**1CE38**	1
4 ¼ in	**5MXV9**	1
4 ½ in	**5MXW0**	1
4 ¾ in	**5MXW1**	1
5 in	**5MXW2**	1
5 ½ in	**5MXW3**	1
6 in	**5MXW4**	1
1 in Shoulder, ¾-10 Thread		
1 in	**31KG94**	1
1 ½ in	**31KG95**	1
2 in	**31KG97**	1
2 ½ in	**31KG98**	1
3 in	**31KG99**	1
3 ½ in	**31KH01**	1
4 in	**31KH02**	1
5 in	**31KH03**	1
6 in	**31KH04**	1
6 mm Shoulder, M5x0.80mm Thread		
10 mm	**6EU11**	5
12 mm	**6EU13**	5
16 mm	**6EU15**	5
20 mm	**6EU17**	5
60 mm	**6EU28**	5
8 mm Shoulder, M6x1mm Thread		
12 mm	**6EU30**	5
16 mm	**6EU31**	5
20 mm	**6EU32**	5
25 mm	**6EU33**	5
30 mm	**6EU34**	5
40 mm	**6EU36**	5
55 mm	**6EU39**	5
10 mm Shoulder, M8x1.25mm Thread		
16 mm	**6EU43**	5
20 mm	**6EU44**	5
25 mm	**6EU45**	5
30 mm	**6EU46**	5
40 mm	**6EU48**	5
50 mm	**6EU50**	5
60 mm	**6EU52**	5
80 mm	**6EU54**	5
12 mm Shoulder, M10x1.50mm Thread		
16 mm	**6EU57**	5
20 mm	**6EU58**	5
25 mm	**6EU59**	5
30 mm	**6EU60**	5
40 mm	**6EU62**	5
50 mm	**6EU64**	5
60 mm	**6EU66**	5
70 mm	**6EU67**	5
16 mm Shoulder, M12x1.75mm Thread		
30 mm	**6EU72**	5
35 mm	**6EU73**	5
50 mm	**6EU75**	5
70 mm	**31KG14**	2
80 mm	**31KG15**	2
20 mm Shoulder, M16x2mm Thread		
80 mm	**31KG19**	2
100 mm	**31KG20**	2
24 mm Shoulder, M20x2.5mm Thread		
50 mm	**31KG22**	2
90 mm	**31KG24**	2

Alloy Steel Shoulder Screws

- Hex socket drive
- Knurled head
- Thread class: 3A standard, 5g6g metric
- Tensile strength: 140,000 psi standard, 159,500 psi metric
- Shear strength (metric): 95,700 psi
- Shoulder length tolerance: ±0.005" standard, +0.25mm metric

Metric sizes meet ISO 7379.

Notes: Additional dimensional information, self-locking screws with nylon patch, and additional sizes are available on Grainger.com; search for "shoulder screws."

Metric are 12.9 alloy steel; due to undercut between shoulder and thread, be sure to lower the tightening torque normally used for Class 12.9 screws.

Shoulder Length	Item No.	Pkg. Qty.
¼" Shoulder, 10-24 Thread		
⅜ in	**5YPC9**	25
½ in	**5YPD0**	25
⅝ in	**5YPD1**	25
¾ in	**5YPD2**	25
1 ¼ in	**5YPD4**	25
1 ½ in	**5YPD5**	25
5⁄16" Shoulder, ¼-20 Thread		
½ in	**5YPD7**	25
⅝ in	**5YPD8**	25
1 ½ in	**5YPE2**	25
1 ¾ in	**5YPE3**	25
2 in	**5YPE4**	25
⅜" Shoulder, 5⁄16-18 Thread		
⅜ in	**5YPE5**	25
½ in	**5YPE6**	25
⅝ in	**5YPE7**	25
¾ in	**5YPE8**	25
1 in	**5YPE9**	25
1 ¼ in	**5YPF0**	25
1 ½ in	**5YPF1**	25
1 ¾ in	**5YPF2**	25
2 in	**5YPF3**	25
2 ¼ in	**5YPF4**	25
2 ½ in	**5YPF5**	25
2 ¾ in	**5YPF6**	25
3 in	**5YPF7**	25
3 ¼ in	**5YPF8**	25
3 ½ in	**5YPF9**	25
4 in	**5YPG0**	25
½" Shoulder, ⅜-16 Thread		
½ in	**5YPG1**	25
⅝ in	**5YPG2**	25
¾ in	**5YPG3**	25
1 in	**5YPG4**	25
1 ¼ in	**5YPG5**	25
1 ½ in	**5YPG6**	25
1 ¾ in	**5YPG7**	25
2 in	**5YPG8**	25
2 ¼ in	**5YPG9**	25
2 ½ in	**5YPH0**	25
2 ¾ in	**5YPH1**	25
3 in	**5YPH2**	25
3 ¼ in	**5YPH3**	25
3 ½ in	**5YPH4**	25
3 ¾ in	**5YPH5**	25
4 ½ in	**5YPH8**	10
4 in	**5YPH6**	25
4 ¼ in	**5YPH7**	25
5 in	**5YPJ0**	10
⅝" Shoulder, ½-13 Thread		
1 ¼ in	**5YPJ1**	25
1 ½ in	**5YPJ2**	25
1 ¾ in	**5YPJ3**	25
2 in	**5YPJ4**	25
2 ¼ in	**5YPJ5**	25
2 ½ in	**5YPJ6**	25
2 ¾ in	**5YPJ7**	25
3 ¼ in	**5YPJ9**	25
3 ½ in	**5YPK0**	25
3 ¾ in	**5YPK1**	25
4 in	**5YPK2**	10
4 ½ in	**5YPK4**	10
5 in	**5YPK6**	10
5 ½ in	**5YPK7**	10
¾" Shoulder, ⅝-11 Thread		
1 ½ in	**5YPK9**	10
1 ¾ in	**5YPL0**	10
2 in	**5YPL1**	10
2 ¼ in	**5YPL2**	10
2 ½ in	**5YPL3**	10
2 ¾ in	**5YPL4**	10
3 in	**5YPL5**	10
3 ¼ in	**5YPL6**	10
3 ½ in	**5YPL7**	10
3 ¾ in	**5YPL8**	10
4 in	**5YPL9**	10
4 ¼ in	**5YPN0**	10
4 ½ in	**5YPN1**	10
4 ¾ in	**5YPN2**	10
5 in	**5YPN3**	10
5 ½ in	**5YPN4**	10

Find more information, including additional dimensions on page 2123.

Hex Socket Drive

Phillips Drive

Slotted Drive

18-8 Stainless Steel Precision Shoulder Screws

- Tensile strength: 90,000 psi inch, 80,000 psi metric
- Thread class: 2A
- Shoulder length tolerance: +0.002" inch, +0.050mm metric
- Shoulder dia. tolerance: +0.000/-0.001"

Closer tolerances permit use in critical applications that require greater precision. Undercut beneath the head lets screws mount flush to surface.

Note: 416 SS precision shoulder screws, additional dimensional information, and additional sizes are available on Grainger.com. Search for "shoulder screws."

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
⅛ in Shoulder, 4-40 Thread			
⅛ in	Hex Socket	**6JU88**	10
	Phillips	**6JY80**	10
3⁄16 in	Slotted	**6JU24**	10
	Hex Socket	**6JU89**	10
	Phillips	**6JY82**	10
¼ in	Slotted	**6JU25**	10
	Hex Socket	**6JU90**	10
⅜ in	Slotted	**6JU27**	10
	Hex Socket	**6JU92**	10
	Phillips	**6JY87**	10
7⁄16 in	Hex Socket	**6JU93**	10
½ in	Slotted	**6JU29**	10
	Hex Socket	**6JU94**	10
5⁄32 in Shoulder, 6-32 Thread			
⅛ in	Hex Socket	**6JU95**	10
3⁄16 in	Hex Socket	**6JU96**	10
¼ in	Slotted	**6JU32**	10
	Hex Socket	**6JU97**	10
	Phillips	**6JY92**	5
5⁄16 in	Slotted	**6JU33**	10
	Hex Socket	**6JU98**	10
	Phillips	**6JY93**	5
⅜ in	Hex Socket	**6JU99**	10
7⁄16 in	Phillips	**6JY95**	5
½ in	Slotted	**6JU36**	10
	Hex Socket	**6JY11**	10
3⁄16 in Shoulder, 8-32 Thread			
⅛ in	Slotted	**6JU37**	10
	Hex Socket	**6JY12**	10
3⁄16 in	Slotted	**6JU38**	10
	Hex Socket	**6JY13**	10
¼ in	Slotted	**6JU39**	10
	Hex Socket	**6JY14**	10
	Phillips	**6JY99**	10
5⁄16 in	Hex Socket	**6JY15**	10
⅜ in	Hex Socket	**6JY16**	10
	Phillips	**6KA11**	5
½ in	Slotted	**6JU42**	10
	Hex Socket	**6JY17**	10
⅝ in	Hex Socket	**6JY18**	10
¾ in	Hex Socket	**6JY19**	5
1 in	Hex Socket	**6JY20**	5
1 ¼ in	Hex Socket	**6JY21**	5
	Slotted	**6JU46**	5
1 ½ in	Slotted	**6JU47**	5
	Hex Socket	**6JY22**	5
¼ in Shoulder, 10-32 Thread			
⅛ in	Slotted	**6JU59**	10
	Hex Socket	**6JY34**	10
	Phillips	**6KA18**	5
3⁄16 in	Slotted	**6JU60**	10
	Hex Socket	**6JY35**	10
	Phillips	**6KA19**	5
¼ in	Hex Socket	**6JY36**	10
5⁄16 in	Hex Socket	**6JY37**	10
	Phillips	**6KA21**	5
⅜ in	Hex Socket	**6JY38**	10
½ in	Slotted	**6JU64**	10
	Phillips	**6KA23**	5
⅝ in	Hex Socket	**6JY40**	5
¾ in	Slotted	**6JU66**	5
	Hex Socket	**6JY41**	5
1 in	Hex Socket	**6JY42**	5
	Phillips	**6KA26**	5
1 ¼ in	Hex Socket	**6JY43**	5
1 ½ in	Hex Socket	**6JY45**	5
1 ¼ in	Phillips	**6KA27**	5
¼ in Shoulder, 10-24 Thread			
⅛ in	Hex Socket	**6JY23**	5
3⁄16 in	Hex Socket	**6JY24**	5
¼ in	Slotted	**6JU50**	10
	Hex Socket	**6JY25**	5
5⁄16 in	Slotted	**6JU51**	10
	Hex Socket	**6JY26**	5
⅜ in	Hex Socket	**6JY27**	5
½ in	Hex Socket	**6JY28**	5
⅝ in	Hex Socket	**6JY29**	5
¾ in	Hex Socket	**6JY30**	5
1 ¼ in	Slotted	**6JU57**	5
1 in	Hex Socket	**6JY31**	5
1 ¼ in	Hex Socket	**6JY32**	5
1 ½ in	Hex Socket	**6JY33**	5

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
5⁄16 in Shoulder, ¼-20 Thread			
¼ in	Slotted	**6JU70**	5
	Hex Socket	**6JY47**	5
	Phillips	**6KA29**	5
5⁄16 in	Hex Socket	**6JY49**	5
	Phillips	**6KA30**	5
⅜ in	Slotted	**6JU72**	5
	Hex Socket	**6JY51**	5
½ in	Slotted	**6JU73**	5
	Hex Socket	**6JY53**	5
⅝ in	Hex Socket	**6JY55**	5
¾ in	Slotted	**6JU75**	5
	Phillips	**6KA34**	5
⅜ in Shoulder, ¼-20 Thread			
⅜ in	Hex Socket	**6JY60**	5
½ in	Slotted	**6JU78**	5
	Hex Socket	**6JY61**	5
⅝ in	Hex Socket	**6JY62**	5
⅜ in Shoulder, 5⁄16-18 Thread			
⅜ in	Slotted	**6JU81**	5
	Hex Socket	**6JY66**	5
⅝ in	Hex Socket	**6JY70**	5
	Phillips	**6KA42**	5
½ in Shoulder, ⅜-16 Thread			
⅝ in	Hex Socket	**6JY74**	5
¾ in	Phillips	**6KA45**	5
3 mm Shoulder, M2x0.40mm Thread			
4 mm	Hex Socket	**25L552**	1
10 mm	Hex Socket	**25L556**	1
4 mm Shoulder, M3x0.50mm Thread			
4 mm	Hex Socket	**25L557**	1
	Slotted	**6KB50**	10
5 mm	Hex Socket	**25L558**	1
	Hex Socket	**6KB96**	5
6 mm	Slotted	**6KB52**	10
	Hex Socket	**6KB97**	5
8 mm	Hex Socket	**25L560**	1
	Hex Socket	**6KB98**	5
10 mm	Hex Socket	**6KB99**	5
5 mm Shoulder, M4x0.70mm Thread			
4 mm	Slotted	**6KB55**	10
	Hex Socket	**6KE10**	5
5 mm	Slotted	**6KB56**	10
	Hex Socket	**6KE11**	5
6 mm	Hex Socket	**6KE12**	5
8 mm	Hex Socket	**6KE13**	5
10 mm	Hex Socket	**25L562**	1
	Hex Socket	**6KE14**	5
12 mm	Hex Socket	**25L563**	1
	Slotted	**6KB60**	10
	Hex Socket	**6KE15**	5
16 mm	Hex Socket	**25L564**	1
	Hex Socket	**6KE17**	5
20 mm	Hex Socket	**25L565**	1
	Hex Socket	**6KE18**	5
25 mm	Slotted	**6KB64**	5
	Hex Socket	**6KE19**	5
30 mm	Hex Socket	**25L567**	1
	Hex Socket	**6KE20**	5
6 mm Shoulder, M5x0.80mm Thread			
4 mm	Hex Socket	**6KE21**	5
5 mm	Hex Socket	**6KE22**	5
6 mm	Slotted	**6KB68**	5
	Hex Socket	**6KE23**	5
8 mm	Hex Socket	**6KE24**	5
10 mm	Hex Socket	**25L568**	1
	Hex Socket	**31KG45**	5
	Hex Socket	**6KE25**	5
12 mm	Hex Socket	**25L569**	1
14 mm	Hex Socket	**6KE27**	5
16 mm	Hex Socket	**25L570**	1
	Hex Socket	**31KG47**	5
	Hex Socket	**6KE28**	5
20 mm	Hex Socket	**31KG48**	5
25 mm	Hex Socket	**31KG49**	5
	Hex Socket	**6KE30**	5
30 mm	Hex Socket	**31KG50**	5
	Hex Socket	**6KE31**	5
40 mm	Hex Socket	**25L574**	1
50 mm	Hex Socket	**25L575**	1
8 mm Shoulder, M6x1mm Thread			
6 mm	Hex Socket	**6KE32**	5
8 mm	Hex Socket	**6KE33**	5
10 mm	Hex Socket	**6KE34**	5

Shoulder Length	Drive Type	Item No.	Pkg. Qty.
12 mm	Hex Socket	**25L576**	1
	Hex Socket	**31KG52**	5
16 mm	Hex Socket	**25L577**	1
	Slotted	**6KB81**	5
	Hex Socket	**6KE36**	5
20 mm	Hex Socket	**25L578**	1
	Hex Socket	**31KG54**	5
	Hex Socket	**6KE37**	5
25 mm	Hex Socket	**25L579**	1
	Hex Socket	**31KG55**	5
30 mm	Hex Socket	**25L580**	1
	Hex Socket	**31KG56**	5
40 mm	Hex Socket	**25L581**	1
	Hex Socket	**31KG57**	5
50 mm	Hex Socket	**25L582**	1
	Hex Socket	**31KG58**	5
10 mm Shoulder, M6x1mm Thread			
8 mm	Hex Socket	**6KE38**	5
10 mm	Hex Socket	**6KE39**	5
12 mm	Slotted	**6KB85**	5
	Hex Socket	**6KE40**	5
16 mm	Hex Socket	**6KE41**	5
10 mm Shoulder, M8x1.25mm Thread			
8 mm	Hex Socket	**6KE42**	5
10 mm	Hex Socket	**6KE43**	5
12 mm	Hex Socket	**6KE44**	5
16 mm	Hex Socket	**25L583**	1
	Hex Socket	**31KG59**	5
20 mm	Hex Socket	**25L584**	1
	Hex Socket	**31KG60**	5
25 mm	Hex Socket	**25L585**	1
	Hex Socket	**31KG61**	5
30 mm	Hex Socket	**25L586**	1
	Hex Socket	**31KG62**	5
40 mm	Hex Socket	**25L587**	1
	Hex Socket	**31KG63**	5
50 mm	Hex Socket	**25L588**	1
	Hex Socket	**31KG64**	5
70 mm	Hex Socket	**25L590**	1
	Hex Socket	**31KG66**	2
12 mm Shoulder, M10x1.50mm Thread			
12 mm	Hex Socket	**6KE47**	5
16 mm	Hex Socket	**25L591**	1
	Hex Socket	**31KG67**	5
	Hex Socket	**6KE49**	5
20 mm	Hex Socket	**25L592**	1
	Hex Socket	**31KG68**	5
	Hex Socket	**6KE51**	5
25 mm	Hex Socket	**25L593**	1
	Hex Socket	**31KG69**	5
30 mm	Hex Socket	**25L594**	1
40 mm	Hex Socket	**25L595**	1
	Hex Socket	**31KG71**	2
50 mm	Hex Socket	**25L596**	1
60 mm	Hex Socket	**25L597**	1
70 mm	Hex Socket	**31KG74**	1
16 mm Shoulder, M12x1.75mm Thread			
30 mm	Hex Socket	**25L599**	1
	Hex Socket	**31KG75**	1
40 mm	Hex Socket	**25L601**	1
	Hex Socket	**31KG76**	1
50 mm	Hex Socket	**25L602**	1
	Hex Socket	**31KG77**	1
60 mm	Hex Socket	**25L603**	1
80 mm	Hex Socket	**31KG80**	1
20 mm Shoulder, M16x2mm Thread			
40 mm	Hex Socket	**31KG81**	2
50 mm	Hex Socket	**25L608**	1
	Hex Socket	**31KG82**	2
60 mm	Hex Socket	**25L609**	1
70 mm	Hex Socket	**25L610**	1
80 mm	Hex Socket	**25L611**	1

Find more information, including additional dimensions on page 2123.

18-8 Stainless Steel Shoulder Screws

- Shoulder length tolerance: ±0.005"
- Knurled head
- Shoulder dia. tolerance: -0.002" to -0.004"

Hex socket drive.

Shoulder Length	Item No.	Pkg. Qty.
⅛ in Shoulder, 4-40 Thread		
⅛ in	25L199	1
5/32 in	25L201	1
3/16 in	25L202	1
7/32 in	25L203	1
¼ in	25L204	1
9/32 in	25L205	1
5/16 in	25L206	1
11/32 in	25L207	1
⅜ in	25L208	1
13/32 in	25L209	1
7/16 in	25L210	1
15/32 in	25L211	1
½ in	25L212	1
⅝ in	25L213	1
¾ in	25L214	1
1 in	25L215	1
1 ¼ in	25L216	1
1 ½ in	25L217	1
5/32 in Shoulder, 6-32 Thread		
⅛ in	25L218	1
5/32 in	25L219	1
3/16 in	25L220	1
7/32 in	25L221	1
¼ in	25L222	1
9/32 in	25L223	1
5/16 in	25L224	1
11/32 in	25L225	1
⅜ in	25L226	1
13/32 in	25L227	1
7/16 in	25L228	1
15/32 in	25L229	1
½ in	25L230	1
⅝ in	25L231	1
¾ in	25L232	1
1 in	25L233	1
3/16 in Shoulder, 8-32 Thread		
⅛ in	25L234	1
5/32 in	25L235	1
3/16 in	25L236	1
7/32 in	25L237	1
¼ in	25L238	1
9/32 in	25L239	1
5/16 in	25L240	1
11/32 in	25L241	1
⅜ in	25L242	1
13/32 in	25L243	1
7/16 in	25L244	1
15/32 in	25L245	1
½ in	25L246	1
⅝ in	25L247	1
¾ in	25L248	1

Shoulder Length	Item No.	Pkg. Qty.
⅞ in	25L249	1
1 in	25L250	1
1 ⅛ in	25L251	1
1 ¼ in	25L252	1
1 ⅜ in	25L253	1
1 ½ in	25L254	1
1 ⅝ in	25L255	1
1 ¾ in	25L256	1
2 in	25L257	1
7/32 in Shoulder, 8-32 Thread		
⅛ in	25L258	1
5/32 in	25L259	1
3/16 in	25L260	1
7/32 in	25L261	1
¼ in	25L262	1
9/32 in	25L263	1
5/16 in	25L264	1
11/32 in	25L265	1
⅜ in	25L266	1
13/32 in	25L267	1
7/16 in	25L268	1
15/32 in	25L269	1
½ in	25L270	1
⅝ in	25L271	1
¾ in	25L272	1
⅞ in	25L273	1
1 in	25L274	1
1 ⅛ in	25L275	1
1 ¼ in	25L276	1
1 ⅜ in	25L277	1
1 ½ in	25L278	1
1 ⅝ in	25L279	1
1 ¾ in	25L280	1
2 in	25L281	1
¼ in Shoulder, 10-24 Thread		
⅛ in	2DME8	4
5/32 in	25L282	1
3/16 in	2DME9	4
7/32 in	25L283	1
¼ in	2DMF1	4
	31KH06	5
9/32 in	25L284	1
5/16 in	2DME7	4
	31KH07	5
11/32 in	25L285	1
⅜ in	2DMF2	4
	31KH08	5
13/32 in	25L286	1
7/16 in	25L287	1
15/32 in	25L288	1

Shoulder Length	Item No.	Pkg. Qty.
½ in	2DMF3	4
	31KH09	5
⅝ in	2DMF4	4
	31KH10	5
¾ in	2DMF5	4
	31KH11	5
1 in	2DMF6	4
1 ¼ in	2DMF7	4
1 ½ in	2DMF8	4
1 ¾ in	2DMF9	2
1 ⅛ in	25L289	1
1 ⅜ in	25L290	1
1 ⅝ in	25L291	1
1 in	31KH12	5
1 ¼ in	31KH13	5
2 in	2DMG1	2
2 ¼ in	2DMG2	2
2 ½ in	2DMG3	2
2 ¾ in	2DMG4	2
3 in	2DMG5	2
3 ½ in	25L292	1
4 in	25L293	1
4 ½ in	25L294	1
5 in	25L295	1
5/16 in Shoulder, ¼-20 Thread		
¼ in	2DMG6	4
5/16 in	2DMG7	4
⅜ in	2DMG8	4
½ in	2DMG9	4
⅝ in	2DMH1	4
¾ in	2DMH2	4
⅞ in	25L296	1
1 in	2DMH3	4
1 ¼ in	2DMH4	4
1 ½ in	2DMH5	2
1 ¾ in	2DMH6	2
1 in	31KH14	5
1 ¼ in	31KH15	5
1 ½ in	31KH16	5
2 in	2DMH7	2
2 ¼ in	2DMH8	2
2 ½ in	2DMH9	2
2 ¾ in	2DMJ1	2
3 in	2DMJ2	2
3 ½ in	2DMJ3	2
4 in	2DMJ4	2
4 ½ in	25L297	1
5 in	25L298	1
5 ½ in	25L299	1
6 in	25L301	1

Shoulder Length	Item No.	Pkg. Qty.
⅜ in Shoulder, 5/16-18 Thread		
¼ in	2DMJ5	4
	31KH17	5
⅜ in	2DMJ6	4
½ in	2DMJ7	4
⅝ in	2DMJ8	4
¾ in	2DMJ9	4
	31KH18	5
1 in	2DMK1	2
1 ¼ in	2DMK2	2
1 ½ in	2DMK3	2
1 ¾ in	2DMK4	2
1 in	31KH19	2
1 ¼ in	31KH20	2
1 ½ in	31KH21	2
2 in	2DMK5	2
2 ¼ in	2DMK6	2
2 ½ in	2DMK7	2
2 ¾ in	2DMK8	2
3 in	2DMK9	2
3 ¼ in	2DML1	2
3 ½ in	2DML2	2
3 ¾ in	2DML3	2
4 in	2DML4	2
4 ½ in	2DML5	2
5 in	2DML6	2
5 ½ in	25L302	1
6 in	2DML7	2
6 ½ in	25L303	1
7 in	25L304	1
7 ½ in	25L305	1
8 in	25L306	1
½ in Shoulder, ⅜-16 Thread		
⅜ in	2DML8	4
	31KH22	5
½ in	2DML9	4
⅝ in	2DMN1	4
¾ in	2DMN2	4
1 in	2DMN3	2
1 ¼ in	2DMN4	2
1 ½ in	2DMN5	2
1 ¾ in	2DMN6	2
1 ¼ in	31KH23	5
1 ½ in	31KH24	2
2 in	2DMN7	2
2 ¼ in	2DMN8	2
2 ½ in	2DMN9	2
2 ¾ in	2DMP1	2
3 in	2DMP2	2
3 ¼ in	2DMP3	2
3 ½ in	2DMP4	2

Shoulder Length	Item No.	Pkg. Qty.
3 ¾ in	2DMP5	2
4 in	2DMP6	2
4 ¼ in	2DMP7	2
4 ½ in	2DMP8	2
4 ¾ in	2DMP9	2
5 in	2DMR1	2
5 ½ in	2DMR2	2
6 in	2DMR3	2
6 ½ in	25L307	1
7 in	25L308	1
7 ½ in	25L309	1
8 in	25L310	1
⅝ in Shoulder, ½-13 Thread		
½ in	2DMR4	2
⅝ in	2DMR5	2
¾ in	2DMR6	2
1 in	2DMR7	2
1 ¼ in	2DMR8	2
1 ½ in	2DMR9	2
1 ¾ in	2DMT1	2
2 in	2DMT2	2
2 ¼ in	2DMT3	2
2 ½ in	2DMT4	2
2 ¾ in	2DMT5	2
3 in	2DMT6	2
3 ¼ in	2DMT7	2
3 ½ in	2DMT8	2
3 ¾ in	2DMT9	2
4 in	2DMU1	2
4 ½ in	2DMU2	2
4 ¾ in	2DMU3	2
4 ¼ in	25L311	1
5 in	2DMU4	2
5 ½ in	2DMU5	2
6 in	2DMU6	2
6 ½ in	25L312	1
7 in	25L313	1
7 ½ in	25L314	1
8 in	25L315	1
¾ in Shoulder, ⅝-11 Thread		
½ in	2DMU7	2
⅝ in	2DMU8	2
¾ in	2DMU9	2
1 in	2DMV1	2
1 ¼ in	2DMV2	2
1 ½ in	2DMV3	2
1 ¾ in	2DMV4	2
2 in	2DMV5	2
2 ¼ in	2DMV6	2
2 ½ in	2DMV7	2
2 ¾ in	2DMV8	2
3 in	2DMV9	2

Shoulder Length	Item No.	Pkg. Qty.
3 ¼ in	2DMW1	2
3 ½ in	2DMW2	2
3 ¾ in	2DMW3	2
4 in	2DMW4	2
4 ¼ in	2DMW5	2
4 ½ in	2DMW6	2
4 ¾ in	2DMW7	2
5 in	2DMW8	2
5 ½ in	2DMW9	2
6 in	2DMX1	2
6 ½ in	25L316	1
7 in	25L317	1
7 ½ in	25L318	1
8 in	25L319	1
1 in Shoulder, ¾-10 Thread		
1 in	2DMX2	2
1 ½ in	2DMX3	2
1 ¾ in	2DMX4	2
1 ¼ in	25L320	1
2 in	2DMX5	2
2 ½ in	2DMX6	2
2 ¼ in	25L321	1
2 ¾ in	25L322	1
3 in	2DMX7	2
3 ½ in	2DMX8	2
4 in	2DMX9	2
4 ½ in	25L323	1
5 in	2DMY1	2
5 ½ in	25L324	1
6 in	2DMY2	2
6 ½ in	25L325	1
7 in	25L326	1
7 ½ in	25L327	1
8 in	25L328	1
1 ¼ in Shoulder, ⅞-9 Thread		
1 in	25L329	1
1 ¼ in	25L330	1
1 ½ in	25L331	1
1 ¾ in	25L332	1
2 in	25L333	1
2 ½ in	25L334	1
3 in	25L335	1
3 ½ in	25L336	1
4 in	25L337	1
1 ½ in Shoulder, 1⅛-7 Thread		
1 in	25L338	1
1 ¼ in	25L339	1
1 ½ in	25L340	1
1 ¾ in	25L341	1
2 in	25L342	1
2 ½ in	25L343	1
3 in	25L344	1

316 Stainless Steel Shoulder Screws

Hex socket drive.

Note: Additional dimensional information and additional sizes are available on Grainger.com; search for "shoulder screws."

Standard
- Tensile strength: 70,000 psi

Metric
- Tensile strength: 90,000 psi

Shoulder Length	Item No.	Pkg. Qty.
⅛ in Shoulder Dia., 4-40 Thread Size		
⅛ in	25L345	1
3/16 in	2DMY3	4
11/32 in	25L349	1
15/32 in	25L351	1
½ in	2DMY8	4
¾ in	25L353	1
1 in	25L354	1
1 ½ in	25L356	1
5/32 in Shoulder Dia., 6-32 Thread Size		
⅛ in	2DMY9	4
5/32 in	25L357	1
3/16 in	2DMZ1	4
¼ in	2DMZ2	4
5/16 in	2DMZ3	4
13/32 in	25L361	1
15/32 in	25L362	1
½ in	2DMZ6	4
1 in	25L365	1
3/16 in Shoulder Dia., 8-32 Thread Size		
5/32 in	25L366	1
3/16 in	2DMZ8	4
¼ in	2DMZ9	4
9/32 in	25L368	1
5/16 in	2DNA1	4
⅜ in	2DNA2	4
13/32 in	25L370	1

Shoulder Length	Item No.	Pkg. Qty.
½ in	2DNA3	4
⅝ in	2DNA4	2
¾ in	2DNA5	2
1 in	2DNA6	2
1 ¼ in	2DNA7	2
1 ½ in	2DNA8	2
1 ⅜ in	25L375	1
1 ⅝ in	25L376	1
2 in	25L378	1
7/32 in Shoulder Dia., 8-32 Thread Size		
7/32 in	25L382	1
¼ in	25L383	1
11/32 in	25L386	1
⅜ in	25L387	1
13/32 in	25L388	1
15/32 in	25L390	1
½ in	25L391	1
2 in	25L403	1
¼ in Shoulder Dia., 10-24 Thread Size		
⅛ in	25L404	1
¼ in	2DNA9	4
9/32 in	25L408	1
5/16 in	25L409	1
⅜ in	2DNC1	4
7/16 in	25L412	1
15/32 in	25L413	1
½ in	2DNC2	4
⅝ in	2DNC3	4

Shoulder Length	Item No.	Pkg. Qty.
¾ in	2DNC4	4
1 ¾ in	2DNC8	2
1 ⅛ in	25L414	1
1 ⅜ in	25L415	1
1 ⅝ in	25L416	1
1 ¼ in	2DNC6	2
1 ½ in	2DNC7	2
1 in	2DNC5	2
2 in	2DNC9	2
2 ¼ in	25L417	1
3 in	25L420	1
4 ½ in	25L423	1
5/16 in Shoulder Dia., ¼-20 Thread Size		
¼ in	2DND1	4
5/16 in	25L425	1
⅜ in	2DND2	4
½ in	2DND3	4
⅝ in	2DND4	4
¾ in	2DND5	4
1 ½ in	2DND8	2
	25L427	1
1 in	2DND6	4
1 ¼ in	2DND7	2
2 in	2DND9	2
2 ½ in	25L429	1
2 ¼ in	25L428	1
3 in	25L431	1
3 ½ in	25L432	1
4 in	25L433	1

Shoulder Length	Item No.	Pkg. Qty.
⅜ in Shoulder Dia., 5/16-18 Thread Size		
¼ in	2DNE1	2
⅜ in	2DNE2	2
½ in	2DNE3	2
⅝ in	2DNE4	2
¾ in	2DNE5	2
1 ¾ in	2DNE9	2
1 ¼ in	2DNE7	2
1 ½ in	2DNE8	2
1 in	2DNE6	2
2 ½ in	25L439	1
2 ¾ in	25L440	1
2 in	2DNF1	2
3 ¾ in	25L444	1
3 in	25L441	1
4 in	25L445	1
6 ½ in	25L450	1
½ in Shoulder Dia., ⅜-16 Thread Size		
⅜ in	2DNF2	2
½ in	2DNF3	2
⅝ in	2DNF4	2
¾ in	2DNF5	2
1 ¼ in	2DNF7	2
1 ¾ in	2DNF9	2
1 in	2DNF6	2
1 ½ in	2DNF8	2
2 in	2DNG1	2

Shoulder Length	Item No.	Pkg. Qty.
2 ¼ in	2DNG2	2
2 ½ in	2DNG3	2
3 in	2DNG4	2
3 ¼ in	25L455	1
3 ½ in	25L456	1
⅝ in Shoulder Dia., ½-13 Thread Size		
½ in	2DNG5	2
⅝ in	25L469	1
¾ in	2DNG6	2
1 in	2DNG7	2
1 ¼ in	2DNG8	2
1 ¾ in	25L470	1
1 ½ in	2DNG9	2
2 in	25L471	1
2 ¼ in	25L472	1
2 ½ in	25L473	1
2 ¾ in	25L474	1
3 in	25L475	1
4 in	25L479	1
4 ¼ in	25L480	1
¾ in Shoulder Dia., ⅝-11 Thread Size		
⅝ in	25L491	1
1 ½ in	25L495	1
2 in	25L497	1
2 ¼ in	25L498	1
2 ½ in	25L499	1

Shoulder Length	Item No.	Pkg. Qty.
1 in Shoulder Dia., ¾-10 Thread Size		
1 ¼ in	25L518	1
2 ¼ in	25L522	1
2 ½ in	25L523	1
1 ¼ in Shoulder Dia., ⅞-9 Thread Size		
2 ½ in	25L541	1
3 mm Shoulder Dia., M2x0.40mm Thread Size		
4 mm	25L615	1
6 mm	25L617	1
10 mm	25L619	1
4 mm Shoulder Dia., M3x0.50mm Thread Size		
5 mm	25L621	1
6 mm	25L622	1
8 mm	25L623	1
10 mm	25L624	1
5 mm Shoulder Dia., M4x0.70mm Thread Size		
10 mm	25L625	1
12 mm	25L626	1
20 mm	25L628	1
30 mm	25L630	1

Shoulder Length	Item No.	Pkg. Qty.
6 mm Shoulder Dia., M5x0.80mm Thread Size		
10 mm	25L631	1
12 mm	25L632	1
16 mm	25L633	1
20 mm	25L634	1
25 mm	25L635	1
30 mm	25L636	1
40 mm	25L637	1
8 mm Shoulder Dia., M6x1mm Thread Size		
12 mm	25L639	1
16 mm	25L640	1
20 mm	25L641	1
25 mm	25L642	1
30 mm	25L643	1
50 mm	25L645	1
10 mm Shoulder Dia., M8x1.25mm Thread Size		
16 mm	25L646	1
20 mm	25L647	1
25 mm	25L648	1
50 mm	25L651	1
60 mm	25L652	1
70 mm	25L653	1

Shoulder Length	Item No.	Pkg. Qty.
12 mm Shoulder Dia., M10x1.50mm Thread Size		
16 mm	25L654	1
20 mm	25L655	1
30 mm	25L657	1
40 mm	25L658	1
50 mm	25L659	1
60 mm	25L660	1
70 mm	25L661	1
16 mm Shoulder Dia., M12x1.75mm Thread Size		
30 mm	25L662	1
40 mm	25L663	1
50 mm	25L664	1
60 mm	25L665	1
70 mm	25L666	1
20 mm Shoulder Dia., M16x2mm Thread Size		
40 mm	25L669	1
50 mm	25L670	1
60 mm	25L671	1
80 mm	25L673	1
90 mm	25L674	1

Set Screw Information

Set screws can be used to prevent relational motion of permanently located parts. They are typically used in electronics and for applications where space is a key concern.

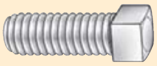
Set screws feature these key characteristics:

- A hexagonal socket recessed in one end, or an external square or slotted head
- A point designed to bear against a mating part at the opposite end
- Threads extending the entire length of the shaft

HEAD TYPES

Hex Socket
Recessed drive makes screws ideal for flush mounting.

Slotted
Single slot for driving with a standard screwdriver.



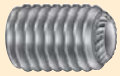
Square
Enables external wrenching of the screw. Use in environments in which grease or dirt might clog a recessed drive.

POINT TYPES

Cone
Pointed end generates highest torsional holding power in applications where parts must be permanently located. See page 2128.

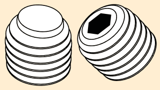
Cup
Cup-shaped point features a conical depression for excellent holding power with slight penetration. See page 2126.

Flat
Minimizes shaft damage in applications where parts are frequently reset or when fastening into thin walls. See page 2130.



Knurled Cup
Provides more resistance to vibration than a plain cup point. Deep socket broach assures a good hex key fit. See pages 2128.

Oval
Rounded point reduces indentation and prevents deformation of parts in applications requiring frequent adjustment.



Half-Dog
Used for permanent setting of parts and can replace dowel pins when hole is threaded. Works well against hardened members or hollow tubing.

Socket Set Screw Assortments

ITW Bee Leitzke

No. of Pieces	No. of Sizes	Type	Includes	Material	Item No.
Approved Vendor					
60	6	Square Head, Cup Point	(20) Each: ¼"-20x3/4 in, (10) Each: ⁵⁄₁₆"-18x3/4 in, ⅜"-16x3/4 in, (8) Each: ⁵⁄₁₆"-18x1 in, ⅜"-16x1 ¼ in, (4) Each: ½"-13x1 in, and Plastic Hanging Pak	Steel	**4F415**
Itw Bee Leitzke					
195	6	Socket Drive, Cup Point	(75) Each: ³⁄₁₆"-24x1/4 in, (40) Each: ¼"-20x1/4 in, (25) Each: ¼"-20x3/8 in, ⁵⁄₁₆"-18x3/8 in, (20) Each: ⅜"-16x3/8 in, (10) Each: ⅜"-16x1/2 in, Plastic Hanging Pak	Black Alloy Steel	**2NRZ5**
200	12	Socket Drive, Cup Point	(30) Each: ¼"-20x1/4 in, ⁵⁄₁₆"-18x3/8 in, (20) Each: ¼"-20x3/8 in, ¼"-28x1/4 in, ⁵⁄₁₆"-18x1/2 in, ⁵⁄₁₆"-24x3/8 in, (10) Each: 5-40x3/16 in, 8-32x3/16 in, ³⁄₁₆"-24x1/4 in, ⅜"-16x3/8 in, x1/2 in, ⅜"-24x3/8 in, Plastic Hanging Pak	Steel	**5A206**

Cup Point Socket Set Screws

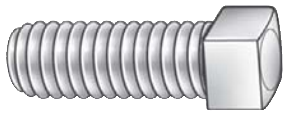
- Hex drive

Note: Additional sizes are available; on Grainger.com search for "set screws."

Overall Length	Item No.	Pkg. Qty.
18-8 Stainless Steel		
0-80 Thread, 7/250 in Drive		
¹⁄₁₆ in	**5MNV5**	50
³⁄₃₂ in	**5MNV6**	50
⅛ in	**5MNV7**	50
³⁄₁₆ in	**5MNV8**	50
¼ in	**5MNV9**	50
1-72 Thread, 7/250 in Drive		
¹⁄₁₆ in	**5MNW0**	50
⅛ in	**5MNW1**	50
2-56 Thread, 7/200 in Drive		
¹⁄₁₆ in	**5MNW2**	100
³⁄₃₂ in	**5MNW3**	100
⅛ in	**5MNW4**	100
³⁄₁₆ in	**5MNW5**	100
¼ in	**5MNW7**	100
3-48 Thread, 1/20 in Drive		
³⁄₃₂ in	**5MNW8**	100
⅛ in	**5MNW9**	100
³⁄₁₆ in	**5MNW6**	100
4-40 Thread, 1/20 in Drive		
⅛ in	**5MNX0**	100
³⁄₁₆ in	**5MNX1**	100
¼ in	**5MNX2**	100
6-32 Thread, ¹⁄₁₆ in Drive		
⅛ in	**6ZB16**	100
³⁄₁₆ in	**6ZB18**	100
¼ in	**6ZB20**	100
⁵⁄₁₆ in	**5MMR4**	100
⅜ in	**5MMR5**	100

Overall Length	Item No.	Pkg. Qty.
8-32 Thread, ⁵⁄₆₄ in Drive		
⅛ in	**6ZB26**	100
³⁄₁₆ in	**6ZB28**	100
¼ in	**6ZB30**	100
⁵⁄₁₆ in	**5MMR6**	100
⅜ in	**5MMR7**	100
⁷⁄₁₆ in	**5MMR8**	100
½ in	**5MMR9**	100
10-24 Thread, ³⁄₃₂ in Drive		
³⁄₁₆ in	**5MMT0**	100
¼ in	**5MMT1**	100
⁵⁄₁₆ in	**5MMT2**	100
⅜ in	**5MMT3**	100
½ in	**5MMT4**	100
⅝ in	**5MMT5**	100
¾ in	**5MMT6**	100
10-32 Thread, ³⁄₃₂ in Drive		
³⁄₁₆ in	**6ZB53**	100
¼ in	**5MMT7**	100
⁵⁄₁₆ in	**5MMT8**	100
⅜ in	**5MMT9**	100
½ in	**5MMU0**	100
⅝ in	**5MMU1**	100
¾ in	**5MMU2**	100
¼-20 Thread, ⅛ in Drive		
³⁄₁₆ in	**6ZB67**	100
¼ in	**5MMU3**	100
⁵⁄₁₆ in	**5MMU4**	100
⅜ in	**5MMU5**	100
½ in	**5MMU6**	100
⅝ in	**5MMU7**	100
¾ in	**5MMU8**	100
1 in	**5MMU9**	50

Overall Length	Item No.	Pkg. Qty.
⁵⁄₁₆-18 Thread, ⁵⁄₃₂ in Drive		
¼ in	**5MMV0**	100
⁵⁄₁₆ in	**5MMV1**	100
⅜ in	**5MMV2**	100
½ in	**5MMV3**	100
⅝ in	**5MMV4**	100
¾ in	**5MMV5**	50
1 in	**5MMV6**	50
⅜-16 Thread, ³⁄₁₆ in Drive		
⁵⁄₁₆ in	**5MMV7**	50
⅜ in	**5MMV8**	50
½ in	**5MMV9**	50
⅝ in	**5MMW0**	50
¾ in	**5MMW1**	50
1 in	**5MMW2**	50
½-13 Thread, ¼ in Drive		
½ in	**5MMW3**	50
⅝ in	**5MMW4**	25
¾ in	**5MMW5**	25
1 in	**5MMW6**	25
300 Stainless Steel		
8-32 Thread, ⁵⁄₆₄ in Drive		
³⁄₁₆ in	**5GUG4**	5
¼-28 Thread, ⅛ in Drive		
³⁄₁₆ in	**5GUH3**	5
¼ in	**5GUH4**	5
⁵⁄₁₆ in	**5GUH5**	5
⅜ in	**5GUH6**	5



Cup Point Square Head Set Screws

Overall Length	Item No.	Pkg. Qty.
18-8 Stainless Steel		
¼-20 Thread		
½ in	**2WA37**	10
¾ in	**2WA39**	10
1 in	**2WA40**	10
1 ¼ in	**2WA41**	10
⁵⁄₁₆-18 Thread		
¾ in	**2WA42**	10
1 in	**2WA43**	10
⅜-16 Thread		
¾ in	**2WA44**	10
1 in	**2WA45**	10
1 ¼ in	**2WA46**	5
1 ½ in	**2WA48**	5
½-13 Thread		
¾ in	**2WA49**	5
1 in	**2WA50**	5
1 ½ in	**2WA52**	5
Steel		
¼-20 Thread		
⅜ in	**25J628**	100
½ in	**5NZY1**	100
⅝ in	**25J629**	100
¾ in	**5NZY2**	100
⅞ in	**25J630**	100
1 in	**5NZY3**	100
1 ¼ in	**5NZY4**	100
1 ½ in	**5NZY5**	100
1 ¾ in	**25J631**	100
2 in	**25J632**	100
2 ½ in	**25J633**	50
3 in	**25J634**	50
⁵⁄₁₆-18 Thread		
½ in	**5NZY6**	100
⅝ in	**25J635**	100
¾ in	**5NZY7**	100
1 in	**5NZY8**	100
1 ¼ in	**5NZY9**	100
1 ½ in	**5NZZ0**	100
1 ¾ in	**25J636**	100
2 in	**25J637**	100
2 ½ in	**25J638**	50
3 in	**25J639**	50
⅜-16 Thread		
½ in	**5NZZ1**	100
⅝ in	**25J640**	100

Overall Length	Item No.	Pkg. Qty.
¾ in	**5NZZ2**	100
1 in	**5NZZ3**	100
1 ¼ in	**5NZZ4**	100
1 ½ in	**31KC88**	50
1 ¾ in	**31KC89**	50
2 in	**31KC90**	25
2 ½ in	**31KJ42**	25
3 in	**31KJ43**	10
3 ½ in	**31KJ44**	10
4 in	**31KJ45**	10
⁷⁄₁₆-14 Thread		
¾ in	**25J642**	50
1 in	**25J643**	50
1 ¼ in	**31KJ46**	25
1 ½ in	**31KJ47**	25
2 in	**31KJ48**	25
½-13 Thread		
¾ in	**31KC91**	25
⅞ in	**31KJ49**	25
1 in	**31KC92**	25
1 ¼ in	**31KC93**	25
1 ½ in	**31KC94**	25
1 ¾ in	**31KC95**	25
2 in	**31KC96**	10
2 ½ in	**31KJ50**	10
3 in	**31KJ51**	10
3 ½ in	**31KJ52**	10
4 in	**31KJ53**	10
5 in	**31KJ54**	5
6 in	**31KJ55**	5
⅝-11 Thread		
1 in	**31KJ56**	10
1 ¼ in	**31KJ57**	10

Overall Length	Item No.	Pkg. Qty.
1 ½ in	**31KJ58**	10
1 ¾ in	**31KJ59**	10
2 in	**31KJ60**	10
2 ½ in	**31KJ61**	10
3 in	**31KJ62**	5
3 ½ in	**31KJ63**	5
4 in	**31KC97**	5
5 in	**31KC98**	5
6 in	**31KJ64**	5
¾-10 Thread		
1 in	**31KJ65**	5
1 ¼ in	**31KJ66**	5
1 ½ in	**31KJ67**	5
2 in	**31KC99**	5
2 ½ in	**31KD01**	5
3 in	**31KD02**	5
3 ½ in	**31KD03**	5
4 in	**31KD04**	5
5 in	**31KD05**	5
6 in	**31KJ68**	5
⅞-9 Thread		
2 in	**25J655**	5
3 in	**25J656**	5
4 in	**31KJ69**	5
5 in	**25J657**	5
6 in	**31KJ70**	5
1-8 Thread		
2 ½ in	**31KJ71**	1
3 in	**31KJ72**	1
4 in	**31KD06**	1
5 in	**31KD07**	1
6 in	**31KD08**	1

Metric Set Screws

Note: Additional sizes are available; go to Grainger.com and search for "set screws."

Overall Length	FLAT Item No.	FLAT Pkg. Qty.	CUP Item No.	CUP Pkg. Qty.	DOG Item No.	DOG Pkg. Qty.	CONE Item No.	CONE Pkg. Qty.
A2 Stainless Steel, Plain								
M1.6 x 0.35mm Thread, 0.7 mm Drive								
3 mm	31KA22	100	6EY64	10	—	—	—	—
5 mm	—	—	6EY68	10	—	—	—	—
M2 x 0.40mm Thread, 0.9 mm Drive								
3 mm	—	—	6EY70	25	31JZ32	100	31KA99	100
4 mm	31KA24	100	31KK49	100	—	—	31KC01	100
5 mm	—	—	6EY74	25	31JZ33	100	31KC02	100
6 mm	—	—	31KK50	100	31JZ34	100	31KC03	100
8 mm	31KA25	100	31KK51	100	—	—	—	—
10 mm	—	—	6EY80	25	—	—	31KC04	100
M2.5 x 0.45mm Thread, 1.3 mm Drive								
4 mm	31KA28	100	31KK52	100	31JZ35	100	31KC05	100
5 mm	31KA29	100	31KK53	100	31JZ36	100	31KC06	100
6 mm	—	—	31KK54	100	31JZ37	100	31KC07	100
8 mm	—	—	6EY90	25	31JZ38	100	31KC08	100
10 mm	31KA30	100	6EY92	10	—	—	31KC09	100
12 mm	31KA31	100	—	—	31JZ39	100	31KC10	100
M3 x 0.50mm Thread, 1.5 mm Drive								
3 mm	6FY87	25	6EY96	100	31JZ40	100	—	—
4 mm	—	—	6EY98	100	31JZ41	100	—	—
5 mm	—	—	6FA10	100	31JZ42	100	—	—
6 mm	31KK37	100	6FA12	100	—	—	—	—
8 mm	31KK38	100	6FA14	100	31JZ43	100	—	—
10 mm	31KK39	100	6FA16	100	31JZ44	100	—	—
12 mm	—	—	6FA18	100	31JZ45	100	—	—
16 mm	31KK41	100	31KK55	100	—	—	—	—
20 mm	—	—	6FA22	50	31JZ46	100	—	—
25 mm	31KA33	100	—	—	31JZ47	100	31KC11	100
M4 x 0.70mm Thread, 2 mm Drive								
4 mm	6FY93	25	6FA24	100	31JZ48	100	31KC12	100
5 mm	31KA35	100	6FA26	100	31JZ49	100	31KC13	100
6 mm	6FY95	25	6FA28	100	31JZ50	100	31KC14	100
8 mm	31KK42	100	6FA30	100	31JZ51	100	31KC15	100
10 mm	6FY99	50	6FA32	100	31JZ52	100	31KC16	100
12 mm	31KA36	100	6FA34	50	—	—	31KC17	100
16 mm	31KA37	100	6FA36	50	31JZ53	100	31KC19	100
20 mm	31KA38	100	31KK56	100	31JZ54	100	31KC20	100
25 mm	—	—	31KK57	100	31JZ55	100	31KC21	100
30 mm	31KA39	100	—	—	31JZ56	100	31KC22	100
M5 x 0.80mm Thread, 2.5 mm Drive								
5 mm	31KA42	100	6FA44	100	31JZ57	100	31KC23	100
6 mm	31KA43	100	6FA46	100	31JZ58	100	31KC24	100
8 mm	31KA44	100	6FA48	100	31JZ59	100	31KC25	100
10 mm	31KA45	100	6FA50	100	31JZ60	100	31KC26	100
12 mm	31KA46	100	6FA52	25	31JZ61	100	31KC27	100
16 mm	31KA47	100	6FA54	25	31JZ62	100	31KC29	100
18 mm	—	—	—	—	31JZ63	100	31KC30	100
20 mm	31KA48	100	—	—	31JZ64	100	31KC31	100
25 mm	—	—	6FA58	25	31JZ65	100	—	—
30 mm	—	—	31KK58	100	31JZ66	100	—	—
35 mm	—	—	—	—	31JZ67	100	31KC32	100
40 mm	—	—	6FA64	10	31JZ68	100	—	—
M6 x 1mm Thread, 3 mm Drive								
5 mm	31KA49	100	—	—	—	—	31KC35	100
6 mm	6GA11	50	6FA66	100	31JZ69	100	31KC36	100
8 mm	6GA13	25	6FA68	100	31JZ70	100	31KC37	100
10 mm	31KK43	100	6FA70	100	31JZ71	100	31KC38	100
12 mm	31KK44	100	6FA72	50	31JZ72	100	31KC39	100
14 mm	31KA50	100	—	—	—	—	31KC40	100
16 mm	31KA51	100	6FA74	25	31JZ73	100	31KC41	100
20 mm	31KA52	100	6FA76	25	31JZ74	100	31KC42	100
25 mm	31KA53	100	6FA78	10	31JZ75	100	31KC43	100
30 mm	31KA54	100	6FA80	10	31JZ76	100	—	—
35 mm	—	—	—	—	31JZ77	100	—	—
40 mm	—	—	6FA84	10	31JZ78	100	31KC44	100
45 mm	31KA55	100	—	—	31JZ79	100	31KC45	100
50 mm	—	—	—	—	31JZ80	100	—	—
60 mm	31KA56	100	—	—	31JZ81	100	31KC46	100
M8 x 1.25mm Thread, 4 mm Drive								
6 mm	31KA58	100	—	—	—	—	31KC47	100
8 mm	31KK45	100	6FA88	100	31JZ82	100	31KC48	100
10 mm	31KK46	100	6FA90	100	31JZ83	100	31KC49	100
12 mm	6GA22	10	6FA92	100	31JZ84	100	31KC50	100
16 mm	6GA23	10	6FA94	25	31JZ85	100	31KC51	100
20 mm	6GA24	10	6FA96	10	31JZ86	100	31KC52	100
25 mm	31KA59	100	6FA98	10	31JZ87	100	31KC53	100
30 mm	31KA60	100	6FB10	10	31JZ88	100	—	—
35 mm	—	—	31KK59	50	31JZ89	50	31KC54	50
40 mm	31KA61	50	6FB14	10	31JZ90	50	31KC55	50
45 mm	—	—	—	—	31JZ91	50	31KC56	50
50 mm	31KA62	50	6FB16	5	31JZ92	50	—	—
60 mm	—	—	—	—	31JZ93	50	31KC57	50
M10 x 1.50mm Thread, 5 mm Drive								
10 mm	6GA25	25	—	—	31JZ94	50	—	—
12 mm	31KK47	50	—	—	31JZ95	50	31KC58	50
16 mm	31KK48	50	—	—	31JZ96	50	31KC59	50
20 mm	31KA65	50	6FB24	10	31JZ97	50	31KC60	50
25 mm	31KA66	50	6FB26	10	31JZ98	50	31KC61	50
30 mm	31KA67	50	6FB28	10	31JZ99	50	31KC62	50
35 mm	—	—	—	—	31KA01	50	31KC63	50
40 mm	31KA68	50	6FB32	5	31KA02	50	—	—
45 mm	31KA69	50	—	—	31KA03	50	31KC64	50
50 mm	—	—	6FB34	5	31KA04	50	—	—
60 mm	—	—	31KC86	50	31KA05	50	31KC65	50
M12 x 1.75mm Thread, 6 mm Drive								
12 mm	—	—	6FB36	5	31KA06	50	—	—
16 mm	—	—	31KK60	50	—	—	31KC66	50

Flat Point

Cup Point

Overall Length	FLAT Item No.	FLAT Pkg. Qty.	CUP Item No.	CUP Pkg. Qty.	DOG Item No.	DOG Pkg. Qty.	CONE Item No.	CONE Pkg. Qty.
20 mm	—	—	6FB40	5	31KA07	50	—	—
25 mm	—	—	31KK61	50	31KA08	50	31KC67	50
30 mm	31KA72	50	31KK62	50	31KA09	50	—	—
35 mm	31KA73	50	6FB46	5	31KA10	50	31KC68	50
40 mm	—	—	6FB48	5	31KA11	50	31KC69	50
45 mm	—	—	—	—	31KA12	50	31KC70	50
50 mm	31KA74	50	6FB50	5	31KA13	50	—	—
55 mm	31KA75	50	—	—	31KA14	50	31KC71	50
60 mm	—	—	—	—	31KA15	50	31KC72	50
70 mm	31KA76	50	—	—	—	—	31KC73	50
M16 x 2mm Thread, 8 mm Drive								
16 mm	31KA79	25	—	—	—	—	31KC74	25
20 mm	—	—	31KC87	25	31KA16	25	31KC75	25
25 mm	31KA80	25	—	—	31KA17	25	31KC76	25
30 mm	—	—	—	—	31KA18	25	31KC77	25
40 mm	31KA82	25	—	—	31KA19	25	31KC78	25
45 mm	31KA83	25	—	—	—	—	31KC79	25
50 mm	31KA84	25	—	—	31KA20	25	—	—
70 mm	31KA85	10	—	—	—	—	31KC81	10
M20 x 2.50mm Thread, 10 mm Drive								
20 mm	31KA89	10	—	—	—	—	31KC82	10
40 mm	31KA92	5	—	—	—	—	31KC84	5
50 mm	31KA94	5	—	—	—	—	31KC85	5
60 mm	31KA95	5	—	—	—	—	—	—
Alloy Steel, Zinc Plated								
M4 x 0.70mm Thread, 2 mm Drive								
4 mm	31JY55	100	31JX61	100	—	—	—	—
5 mm	31JY56	100	31JX62	100	—	—	—	—
6 mm	31JY57	100	31JX63	100	—	—	—	—
8 mm	31JY58	100	31JX64	100	—	—	—	—
10 mm	31JY59	100	31JX65	100	—	—	—	—
12 mm	31JY60	100	31JX66	100	—	—	—	—
16 mm	31JY61	100	31JX67	100	—	—	—	—
20 mm	31JY62	100	31JX68	100	—	—	—	—
M5 x 0.80mm Thread, 2.5 mm Drive								
6 mm	31JY63	100	31JX69	100	—	—	—	—
8 mm	31JY64	100	31JX70	100	—	—	—	—
10 mm	31JY65	100	31JX71	100	—	—	—	—
12 mm	31JY66	100	31JX72	100	—	—	—	—
16 mm	31JY67	100	31JX73	100	—	—	—	—
20 mm	31JY68	100	31JX74	100	—	—	—	—
25 mm	31JY69	100	31JX75	100	—	—	—	—
M6 x 1mm Thread, 3 mm Drive								
6 mm	31JY70	100	31JX77	100	—	—	—	—
8 mm	31JY71	100	31JX78	100	—	—	—	—
10 mm	31JY72	100	31JX79	100	—	—	—	—
12 mm	31JY73	100	31JX80	100	—	—	—	—
16 mm	31JY74	100	31JX81	100	—	—	—	—
20 mm	31JY75	100	31JX82	100	—	—	—	—
25 mm	31JY76	100	31JX83	100	—	—	—	—
30 mm	31JY77	100	31JX84	100	—	—	—	—
M8 x 1.25mm Thread, 4 mm Drive								
8 mm	31JY78	100	31JX87	100	—	—	—	—
10 mm	31JY79	100	31JX88	100	—	—	—	—
12 mm	31JY80	100	31JX89	100	—	—	—	—
16 mm	31JY81	100	31JX90	100	—	—	—	—
20 mm	31JY82	100	31JX91	100	—	—	—	—
25 mm	31JY83	100	31JX92	100	—	—	—	—
30 mm	31JY84	100	31JX93	100	—	—	—	—
40 mm	31JY85	50	31JX95	50	—	—	—	—
M10 x 1.50mm Thread, 5 mm Drive								
8 mm	—	—	31JX97	50	—	—	—	—
10 mm	—	—	31JX98	50	—	—	—	—
12 mm	31JY86	50	31JX99	50	—	—	—	—
16 mm	31JY87	50	31JY01	50	—	—	—	—
20 mm	31JY88	50	31JY02	50	—	—	—	—
25 mm	31JY89	50	31JY03	50	—	—	—	—
30 mm	31JY90	50	31JY04	50	—	—	—	—
35 mm	—	—	31JY05	50	—	—	—	—
40 mm	31JY91	50	31JY06	50	—	—	—	—
50 mm	31JY92	50	31JY07	50	—	—	—	—
60 mm	—	—	31JY08	50	—	—	—	—
M12 x 1.75mm Thread, 6 mm Drive								
12 mm	31JY93	50	31JY09	50	—	—	—	—
16 mm	31JY94	50	31JY10	50	—	—	—	—
20 mm	31JY95	50	31JY11	50	—	—	—	—
25 mm	31JY96	50	31JY12	50	—	—	—	—
30 mm	31JY97	50	31JY13	50	—	—	—	—
40 mm	31JY98	50	31JY15	50	—	—	—	—
Steel, Black Oxide								
M3 x 0.50mm Thread, 1.5 mm Drive								
3 mm	—	—	—	—	31JW42	100	31JV54	100
4 mm	6GA29	100	—	—	31JW43	100	31JV55	100
5 mm	—	—	—	—	—	—	31JV56	100
6 mm	—	—	—	—	31JW44	100	31JV57	100
8 mm	—	—	—	—	31JW45	100	31JV58	100
10 mm	—	—	—	—	31JW46	100	—	—
12 mm	—	—	—	—	31JW47	100	31JV59	100
16 mm	—	—	—	—	—	—	31JV60	100
20 mm	31JW16	100	31KK18	100	31JW48	100	—	—

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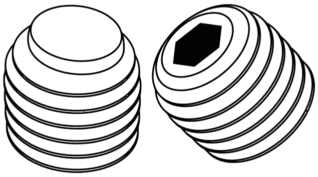


Half-Dog

Cone Point

Metric Set Screws

Overall Length	FLAT Item No.	FLAT Pkg. Qty.	CUP Item No.	CUP Pkg. Qty.	DOG Item No.	DOG Pkg. Qty.	CONE Item No.	CONE Pkg. Qty.
M4 x 0.70mm Thread, 2 mm Drive								
4 mm	—	—	—	—	—	—	31JV61	100
5 mm	—	—	—	—	—	—	31JV62	100
6 mm	—	—	—	—	31JW49	100	31JV63	100
8 mm	—	—	—	—	31JW50	100	31JV64	100
10 mm	—	—	—	—	31JW51	100	31JV65	100
12 mm	—	—	—	—	31JW52	100	31JV66	100
16 mm	—	—	—	—	31JW53	100	31JV67	100
20 mm	31KJ99	100	—	—	31JW54	100	31JV68	100
25 mm	31JW17	100	—	—	—	—	—	—
M5 x 0.80mm Thread, 2.5 mm Drive								
5 mm	—	—	—	—	—	—	31JV69	100
6 mm	—	—	—	—	31JW55	100	31JV70	100
8 mm	—	—	—	—	31JW56	100	31JV71	100
10 mm	—	—	—	—	31JW57	100	31JV72	100
12 mm	—	—	—	—	31JW58	100	31JV73	100
16 mm	—	—	—	—	31JW59	100	31JV74	100
20 mm	31KK01	100	—	—	31JW60	100	31JV75	100
25 mm	31KK02	100	—	—	31JW61	100	31JV76	100
30 mm	31JW18	100	—	—	—	—	—	—
M6 x 1mm Thread, 3 mm Drive								
6 mm	—	—	—	—	31JW62	100	31JV77	100
8 mm	—	—	—	—	31JW63	100	31JV78	100
10 mm	—	—	—	—	31JW64	100	31JV79	100
12 mm	—	—	—	—	31JW65	100	31JV80	100
16 mm	—	—	—	—	31JW66	100	31JV81	100
20 mm	—	—	—	—	31JW67	100	31JV82	100
25 mm	31JW19	100	—	—	31JW68	100	31JV83	100
30 mm	31JW20	100	—	—	31JW69	100	31JV84	100
35 mm	31JW21	100	31KK24	100	—	—	31JV85	100
40 mm	31JW22	100	—	—	31JW70	100	—	—
45 mm	31JW23	100	31KK25	100	—	—	—	—
50 mm	31JW24	100	31KK26	100	31JW71	100	—	—
M8 x 1.25mm Thread, 4 mm Drive								
8 mm	—	—	—	—	—	—	31JV86	100
10 mm	—	—	—	—	31JW72	100	31JV87	100
12 mm	—	—	—	—	31JW73	100	31JV88	100
16 mm	—	—	—	—	31JW74	100	31JV89	100
20 mm	—	—	—	—	31JW75	100	31JV90	100
25 mm	31KK03	100	—	—	31JW76	100	31JV91	100
30 mm	—	—	—	—	31JW77	100	31JV92	100
35 mm	31JW26	50	—	—	31JW78	50	31JV93	50
40 mm	31JW27	50	—	—	31JW79	50	31JV94	50
45 mm	—	—	31JX20	50	31JW80	50	—	—
50 mm	31JW28	50	—	—	31JW81	50	—	—
60 mm	31JW29	50	—	—	—	—	31JV95	50
70 mm	31JW30	50	31JX21	50	—	—	—	—
M10 x 1.50mm Thread, 5 mm Drive								
10 mm	6GA67	50	31JX24	50	—	—	31JV96	50
12 mm	31KK04	50	31JX25	50	31JW82	50	31JV97	50
16 mm	31KK05	50	31JX26	50	31JW83	50	31JV98	50
20 mm	—	—	—	—	31JW84	50	31JV99	50
25 mm	31KK06	50	—	—	31JW85	50	31JW01	50
30 mm	31KK07	50	—	—	31JW86	50	31JW02	50
35 mm	6GA73	10	31KK27	50	31JW87	50	—	—
40 mm	—	—	—	—	31JW88	50	31JW03	50
45 mm	—	—	31KK28	50	31JW89	50	—	—
50 mm	31KK08	50	—	—	31JW90	50	31JW04	50
60 mm	31KK09	50	—	—	—	—	—	—
80 mm	31JW31	50	31JX28	50	—	—	—	—
M12 x 1.75mm Thread, 6 mm Drive								
12 mm	31KK10	50	—	—	31JW91	50	—	—
16 mm	—	—	—	—	31JW92	50	31JW05	50
20 mm	—	—	—	—	31JW93	50	31JW06	50
25 mm	31KK11	50	31KK30	50	31JW94	50	31JW07	50
30 mm	31KK12	50	—	—	31JW95	50	31JW08	50
35 mm	31KK13	50	—	—	31JW96	50	—	—
40 mm	31KK14	50	—	—	31JW97	50	31JW09	50
45 mm	—	—	31KK31	50	31JW98	50	—	—
50 mm	31KK15	50	—	—	31JW99	50	31JW10	50
60 mm	31JW32	50	—	—	—	—	—	—
M16 x 2mm Thread, 8 mm Drive								
16 mm	31JW33	25	—	—	31JX01	25	31JW11	25
20 mm	31JW34	25	—	—	31JX02	25	—	—
25 mm	31JW35	25	31KK32	25	31JX03	25	31JW12	25
30 mm	31JW36	25	—	—	31JX04	25	31JW13	25
35 mm	—	—	31KK33	25	31JX05	25	31JW14	25
40 mm	31JW37	25	—	—	31JX06	25	—	—
50 mm	31JW38	25	—	—	31JX07	25	31JW15	25
60 mm	31JW39	10	—	—	31JX08	10	—	—
80 mm	31JW40	10	31KK35	10	—	—	—	—
M20 x 2.50mm Thread, 10 mm Drive								
20 mm	31JW41	10	31KK36	10	—	—	—	—
50 mm	—	—	—	—	31JX11	5	—	—
Steel, Zinc Plated								
M3 x 0.50mm Thread, 1.5 mm Drive								
4 mm	—	—	31JX54	100	—	—	—	—
5 mm	—	—	31JX55	100	—	—	—	—
6 mm	—	—	31JX56	100	—	—	—	—
8 mm	—	—	31JX57	100	—	—	—	—
10 mm	—	—	31JX58	100	—	—	—	—
12 mm	—	—	31JX59	100	—	—	—	—
16 mm	—	—	31JX60	100	—	—	—	—

Knurled Cup Point Alloy Steel Socket Set Screws

- Thread class: 3A

Overall Length	Item No.	Pkg. Qty.
4-40 Thread, 1/20 in Drive		
⅛ in	1HLL2	100
6-32 Thread, 1/16 in Drive		
⅛ in	1HLL3	100
3/16 in	1HLL4	100
¼ in	1HLL5	100
5/16 in	25J695	100
⅜ in	25J696	100
½ in	25J697	100
8-32 Thread, 5/64 in Drive		
⅛ in	1HLL6	100
3/16 in	1HLL7	100
¼ in	1HLL8	100
5/16 in	25J698	100
⅜ in	1HLL9	100
½ in	25J699	100
⅝ in	25J701	100
¾ in	25J702	100
10-24 Thread, 3/32 in Drive		
3/16 in	25J703	100
¼ in	1HLN1	100
5/16 in	25J704	100
⅜ in	25J705	100
½ in	25J706	100
⅝ in	25J707	100
¾ in	25J708	100
1 in	25J709	100
10-32 Thread, 3/32 in Drive		
3/16 in	1HLN2	100
¼ in	1HLN3	100
5/16 in	25J710	100
⅜ in	1HLN4	100
½ in	1HLN5	100
⅝ in	25J711	100
¾ in	25J712	100
1 in	25J713	100
¼-20 Thread, ⅛ in Drive		
3/16 in	1HLN6	100
¼ in	1HLN7	100
5/16 in	1HLN8	100
⅜ in	1HLN9	100
½ in	1HLR1	100
⅝ in	25J714	100
¾ in	1HLR2	100
1 in	25J715	100
1 ¼ in	25J716	100
¼-28 Thread, ⅛ in Drive		
3/16 in	1HLR3	100
¼ in	1HLR4	100
5/16 in	1HLR5	100
⅜ in	1HLR6	100
½ in	25J717	100
5/16-18 Thread, 5/32 in Drive		
¼ in	1HLR7	100
5/16 in	1HLR8	100
⅜ in	1HLR9	100
½ in	1HLT1	100
⅝ in	1HLT2	100
¾ in	1HLT3	100
5/16-24 Thread, 5/32 in Drive		
¼ in	1HLT5	100
5/16 in	1HLT6	100
⅜ in	1HLT7	100
½ in	1HLT8	100
⅝ in	25J718	100
¾ in	25J719	100
⅜-16 Thread, 3/16 in Drive		
⅜ in	1HLT9	100
½ in	1HLU1	100
⅝ in	25J720	100
¾ in	5XCX3	100
1 ¼ in	30P138	100
1 in	5XCX4	100
⅜-24 Thread, 3/16 in Drive		
⅜ in	1HLU4	100
½ in	1HLU5	100
⅝ in	25J721	100
¾ in	25J722	50
½-13 Thread, ¼ in Drive		
½ in	1HLU6	50
⅝ in	1HLU7	25
¾ in	1HLU8	25
1 in	1HLU9	25
1 ¼ in	25J723	25
M3 x 0.50mm Thread, 1.5 mm Drive		
4 mm	31JY99	100
5 mm	31JZ01	100
6 mm	31JZ02	100
8 mm	31JZ03	100
10 mm	31JZ04	100
M4 x 0.70mm Thread, 2 mm Drive		
5 mm	31JZ05	100
6 mm	31JZ06	100
8 mm	31JZ07	100
10 mm	31JZ08	100
12 mm	31JZ09	100
16 mm	31JZ10	100
M5 x 0.80mm Thread, 2.5 mm Drive		
5 mm	31JZ11	100
6 mm	31JZ12	100
8 mm	31JZ13	100
10 mm	31JZ14	100
12 mm	31JZ15	100
16 mm	31JZ16	100
20 mm	31JZ17	100
M6 x 1mm Thread, 3 mm Drive		
6 mm	31JZ18	100
8 mm	31JZ19	100
10 mm	31JZ20	100
12 mm	31JZ21	100
16 mm	31JZ22	100
20 mm	31JZ23	100
25 mm	31JZ24	100
M8 x 1.25mm Thread, 4 mm Drive		
8 mm	31JZ25	100
10 mm	31JZ26	100
12 mm	31JZ27	100
16 mm	31JZ28	100
20 mm	31JZ29	100
25 mm	31JZ30	100
30 mm	31JZ31	100
6-32 Thread, 1/16 in Drive		
⅛ in	5YNZ2	100
3/16 in	5YNZ3	100
¼ in	5YNZ4	100
8-32 Thread, 5/64 in Drive		
⅛ in	5YNZ5	100
¼ in	5YNZ6	100
⅜ in	5YNZ7	100
10-24 Thread, 3/32 in Drive		
¼ in	5YNZ8	100
¼-20 Thread, ⅛ in Drive		
3/16 in	5YNZ9	100
¼ in	5YPA0	100
5/16 in	5YPA1	100
⅜ in	5YPA2	100
½ in	5YPA3	100
¾ in	5YPA4	100
5/16-18 Thread, 5/32 in Drive		
¼ in	5YPA5	100
5/16 in	5YPA6	100
⅜ in	5YPA7	100
½ in	5YPA8	100
⅜-16 Thread, 3/16 in Drive		
⅜ in	5YPA9	100

Cup Point Alloy Steel Socket Set Screws

- Thread class: 3A

Note: Additional sizes are available; go to Grainger.com and search for "set screws."

Overall Length	Item No.	Pkg. Qty.
0-80 Thread, 7/250 in Drive		
1/16"	5WJV2	50
3/32"	5WJV3	50
1/8"	5WJV4	50
3/16"	5WJV5	50
1/4"	5WJV6	50
1-72 Thread, 7/250 in Drive		
1/16"	5WJV7	50
3/32"	5WJV8	50
1/8"	5WJV9	50
3/16"	5WJW0	50
1/4"	5WJW1	50
2-56 Thread, 7/200 in Drive		
1/16"	5WJW2	100
3/32"	5WJW3	100
1/8"	5WJW4	100
3/16"	5WJW5	100
1/4"	5WJW6	100
3-48 Thread, 1/20 in Drive		
1/16"	30P097	100
3/32"	5WJW7	100
1/8"	5WJW8	100
1/4"	6ZE61	100
5/16"	31KL08	100
1/2"	31KL09	100
5/8"	31KD65	100
3/4"	31KD66	100
4-40 Thread, 1/20 in Drive		
3/32"	31KL10	100
1/8"	6ZE69	100
3/16"	6ZE71	100
3/4"	31KL11	100
1"	31KL12	100
4-48 Thread, 1/20 in Drive		
3/16"	5WJX8	100
1/4"	5WJX9	100
1/2"	31KL41	100
5-40 Thread, 1/16 in Drive		
7/16"	5WJY7	100
5/8"	5WJY9	100
3/4"	5WJZ0	100
1"	31KL13	100
5-44 Thread, 1/16 in Drive		
1/8"	5WJZ2	100
3/16"	5WJZ3	100
1/4"	5WJZ4	100
1/2"	31KD82	100
6-32 Thread, 1/16 in Drive		
3/16"	6ZU48	100
7/8"	5WKA0	100
6-40 Thread, 1/16 in Drive		
5/16"	5WKA7	100
1/2"	31KD83	100
8-32 Thread, 5/64 in Drive		
3/16"	6ZU92	100
1/4"	6ZU95	100
3/8"	6ZY11	100
7/16"	6ZY14	100
1/2"	6ZY17	100
7/8"	5MNT0	100
1 1/4"	31KL14	100
1 1/2"	31KL15	100
8-36 Thread, 5/64 in Drive		
1/8"	5MNT3	100
3/16"	6ZY41	100
1/4"	6ZY44	100
5/16"	6ZY47	100
3/8"	6ZY50	100
1/2"	5MNT4	100
10-24 Thread, 3/32 in Drive		
1/8"	30P099	100
1/4"	6ZY58	100
3/8"	6ZY64	100
1/2"	6ZY67	100
7/8"	1HLV1	100
1 1/4"	5MNT8	100
1 1/2"	31KL16	100
2"	31KD67	50
10-32 Thread, 3/32 in Drive		
1/8"	6ZY88	100
3/16"	6ZY91	100
1/4"	6ZY94	100
3/8"	3MY89	100
1/2"	3MB67	100
7/8"	5MNU0	100
1 1/2"	31KD84	100
1 3/4"	31KL42	100
2"	31KD85	50

Overall Length	Item No.	Pkg. Qty.
1/4-20 Thread, 1/8 in Drive		
3/16"	3MB95	100
1/4"	3KB76	100
5/16"	3KB81	100
3/8"	3KE72	100
1/2"	3KE76	100
5/8"	3KE80	100
3/4"	3KE83	100
1"	3KE91	100
1 1/8"	31KL17	100
1 1/4"	3KE98	100
1 1/2"	5XCJ1	100
2 1/4"	31KL18	100
2 1/2"	31KD68	50
3"	31KD69	50
1/4-28 Thread, 1/8 in Drive		
3/16"	5WJX7	100
1/4"	3KU33	100
5/16"	3KU36	100
3/8"	3KU40	100
1/2"	3KU44	100
5/8"	3KU47	100
1"	3KU55	100
1 1/2"	31KL43	100
1 3/4"	31KL44	100
2"	31KD86	100
2 1/2"	31KD87	50
5/16-18 Thread, 5/32 in Drive		
3/16"	31KD70	100
1/4"	3FY73	100
5/16"	3FY76	100
3/8"	3FY80	100
1/2"	3FA79	100
5/8"	3FA84	100
3/4"	4FA47	100
7/8"	4FA88	100
1"	3VE15	100
2 1/4"	31KL19	100
2 1/2"	31KD71	50
2 3/4"	31KD72	50
5/16-24 Thread, 5/32 in Drive		
1/4"	4BE47	100
5/16"	4BU39	100
3/8"	4BU44	100
1/2"	4BU49	100
5/8"	4BU53	100
3/4"	4BU58	100
1 1/4"	31KL45	100
1 1/2"	31KD88	100
1 3/4"	31KL46	100
2"	31KL47	100
2 1/2"	31KD89	50
3/8-16 Thread, 3/16 in Drive		
1/4"	5XCN0	100
5/16"	4YE84	100
3/8"	5WB52	100
7/16"	5WE16	100
1/2"	6NU12	100
5/8"	6NU17	100
3/4"	5XCN4	100
1"	5XCN6	100
1 1/2"	6NU42	50
1 3/4"	6NU47	50
2"	1AB37	25
2 1/4"	1AB40	25
2 1/2"	1AB43	25
2 3/4"	5WKA1	10
3"	1AB49	10
3/8-24 Thread, 3/16 in Drive		
5/16"	5WKA6	100
3/8"	1AB58	100
5/8"	5XCP4	100
1 1/2"	5WKC3	50
1 3/4"	31KL48	50
2"	1AB82	25
2 1/2"	31KD90	25
7/16-14 Thread, 7/32 in Drive		
3/8"	1AB85	50
7/16"	1AB88	50
1/2"	1AB91	50
5/8"	1AB94	50
3/4"	5MNR5	50
7/8"	5MNR6	50
1"	1AE13	50
1 1/4"	31KJ79	25
1 1/2"	1AE19	25
1 3/4"	5MNR7	25
2"	31KD73	10
2 1/4"	1AE28	10

Overall Length	Item No.	Pkg. Qty.
7/16-20 Thread, 7/32 in Drive		
3/8"	5MNR9	50
7/16"	1AE34	50
1/2"	1AE37	50
5/8"	31KL49	50
3/4"	31KL50	50
7/8"	31KL51	50
1"	31KL52	50
1 1/4"	1AE54	25
1 1/2"	31KD91	25
1 3/4"	1AE60	25
2"	1AE63	10
1/2-13 Thread, 1/4 in Drive		
3/8"	1AE66	50
7/16"	31KD74	50
1/2"	1AE69	50
5/8"	1AE72	50
3/4"	31KJ80	25
7/8"	31KJ81	25
1"	31KJ82	25
1 1/4"	31KJ83	25
1 1/2"	1AE87	25
1 3/4"	1AE90	25
2"	31KJ84	10
2 1/4"	1AE96	10
2 1/2"	31KD75	10
3"	5MNT2	10
3 1/2"	1AJ22	10
4"	31KD76	10
1/2-20 Thread, 1/4 in Drive		
3/8"	1AJ32	25
1/2"	1AJ35	50
5/8"	5MNT5	50
3/4"	31KJ97	25
1"	31KJ98	25
1 1/4"	31KD92	25
1 1/2"	1AJ55	10
1 3/4"	31KL53	25
2"	31KD93	10
2 1/2"	31KD94	10
3"	1AJ70	10
5/8-11 Thread, 5/16 in Drive		
1/2"	1AJ74	10
5/8"	1AJ77	10
3/4"	1AJ82	10
1"	1AJ87	10
1 1/4"	31KJ85	10
1 1/2"	31KJ86	10
1 3/4"	31KJ87	10
2"	31KJ88	10
2 1/4"	31KD77	10
2 1/2"	31KD78	10
3"	31KD79	5
3 1/2"	30P101	25
4"	31KD80	5
5/8-18 Thread, 5/16 in Drive		
1/2"	5MNT9	10
5/8"	1AU31	10
3/4"	1AU35	10
1"	1AU38	10
1 1/2"	1AU41	10
2"	1AU44	10
3/4-10 Thread, 3/8 in Drive		
5/8"	31KJ89	5
3/4"	31KJ90	5
7/8"	31KJ91	5
1"	31KJ92	5
1 1/4"	1AU62	5
1 1/2"	1AU66	5
1 3/4"	1AU69	5
2"	1AU72	5
2 1/2"	1AU75	5
3"	1AU78	5
3 1/2"	31KJ93	5
4"	1AU84	5
3/4-16 Thread, 3/8 in Drive		
3/4"	1AU87	5
1"	1AU90	5
1 1/2"	1AU93	5
1 3/4"	1AU96	5
2"	1AU99	5
2 1/2"	31KD95	5
3"	1AV17	5
7/8-9 Thread, 1/2 in Drive		
7/8"	5MNU4	5
1"	5MNU5	5
1 1/4"	5MNU6	5
1 1/2"	31KJ94	5

Overall Length	Item No.	Pkg. Qty.
2"	5MNU7	5
2 1/2"	5MNU8	1
3"	5MNU9	1
4"	31KD81	1
1-8 Thread, 9/16 in Drive		
1"	31KJ95	1
1 1/2"	31KJ96	1
2"	5MNV2	1
2 1/2"	5MNV3	1
3"	5MNV4	1

Overall Length	Item No.	Pkg. Qty.
1/8 in	5TAU5	100
4-40 Thread, 1/20 in Drive		
3/16 in	5TAU6	100
1/4 in	5TAU7	100
5/16 in	5TAU8	100
3/8 in	5TAU9	100
1/2 in	5TAV0	100
5/8 in	5TAV1	100
4-48 Thread, 1/20 in Drive		
1/8 in	5YNU5	100
1/4 in	5YNU7	100
5-40 Thread, 1/16 in Drive		
1/8 in	5TAV2	100
3/16 in	5TAV3	100
1/4 in	5TAV4	100
5/16 in	5TAV5	100
1/2 in	5TAV6	100
5/8 in	5TAV7	100
3/4 in	5TAV8	100
6-32 Thread, 1/16 in Drive		
1/8 in	5TAV9	100
3/16 in	5TAW0	100
1/4 in	5TAW1	100
5/16 in	5TAW2	100
3/8 in	5TAW3	100
1/2 in	5TAW4	100
5/8 in	5TAW5	100
3/4 in	5TAW6	100
7/8 in	5TAW7	100
1 in	5TAW8	100
8-32 Thread, 5/64 in Drive		
1/8 in	5TAW9	100
3/16 in	5TAX0	100
1/4 in	5TAX1	100
5/16 in	5TAX2	100
3/8 in	5TAX3	100
1/2 in	5TAX4	100
5/8 in	5TAX5	100
3/4 in	5TAX6	100
7/8 in	5TAX7	100
1 in	5TAX8	100
10-24 Thread, 3/32 in Drive		
3/16 in	5TAX9	100
1/4 in	5TAY0	100
5/16 in	5TAY1	100
3/8 in	5TAY2	100
1/2 in	5TAY3	100
5/8 in	5TAY4	100
3/4 in	5TAY5	100
7/8 in	5TAY6	100
1 in	5TAY7	100
1 1/4 in	5TAY8	100
1/4-20 Thread, 1/8 in Drive		
3/16 in	5TAY9	100
1/4 in	5TAZ0	100
5/16 in	5TAZ1	100
3/8 in	5TAZ2	100
1/2 in	5TAZ3	100
5/8 in	5TAZ4	100
3/4 in	5TAZ5	100
7/8 in	5TAZ6	100
1 in	5TAZ7	100
1 1/4 in	5TAZ8	100
1 1/2 in	5TAZ9	100
1 3/4 in	5TCA0	50
2 in	5TCA1	50
5/16-18 Thread, 5/32 in Drive		
1/4 in	5TCA2	100
5/16 in	5TCA3	100
3/8 in	5TCA4	100
7/16 in	5TCA5	100
1/2 in	5TCA6	100
5/8 in	5TCA7	100
5/16-24 Thread, 5/32 in Drive		
3/4 in	5TCA8	100

Overall Length	Item No.	Pkg. Qty.
5/16-18 Thread, 5/32 in Drive		
3/4 in	5TCA9	100
1 in	5TCC1	100
1 1/4 in	5TCC2	100
1 1/2 in	5TCC3	100
1 3/4 in	5TCC4	50
2 in	5TCC5	50
3/8-16 Thread, 3/16 in Drive		
1/4 in	5TCC6	100
3/8 in	5TCC7	100
1/2 in	5TCC8	100
5/8 in	5TCC9	100
3/4 in	5TCD0	100
1 in	5TCD1	100
1 1/4 in	5TCD2	100
1 1/2 in	5TCD3	100
1 3/4 in	5TCD4	50
2 1/2 in	5TCD5	100
7/16-14 Thread, 7/32 in Drive		
1/2 in	5TCD6	100
5/8 in	5TCD7	100
3/4 in	5TCD8	100
1 in	5TCD9	50
1 1/4 in	5TCE0	50
1 1/2 in	5TCE1	50
2 in	5TCE2	50
6-40 Thread, 1/16 in Drive		
1/8 in	5YNU9	100
3/16 in	5YNV0	100
1/4 in	5YNV1	100
3/8 in	5YNV2	100
8-36 Thread, 5/64 in Drive		
1/4 in	5YNV3	100
3/8 in	5YNV4	100
10-32 Thread, 3/32 in Drive		
3/16 in	5YNV5	100
1/4 in	5YNV6	100
5/16 in	5YNV7	100
3/8 in	5YNV8	100
1/2 in	5YNV9	100
5/8 in	5YNW0	100
3/4 in	5YNW1	100
1 in	5YNW2	100
1 1/4 in	5YNW3	100
1/4-28 Thread, 1/8 in Drive		
3/16 in	5YNW4	100
1/4 in	5YNW5	100
5/16 in	5YNW6	100
3/8 in	5YNW7	100
1/2 in	5YNW8	100
3/4 in	5YNX0	100
1 in	5YNX1	100
5/16-24 Thread, 5/32 in Drive		
1/4 in	5YNX3	100
5/16 in	5YNX4	100
3/8 in	5YNX5	100
1/2 in	5YNX6	100
5/8 in	5YNX7	100
1 in	5YNX8	100
3/8-24 Thread, 3/16 in Drive		
1/4 in	5YNX9	100
3/8 in	5YNY0	100
1 1/2 in	5YNY1	100
1/2 in	5YNY2	100
5/8 in	5YNY3	100
3/4 in	5YNY4	100
1 in	5YNY5	100
1 1/4 in	5YNY6	100
7/16-20 Thread, 7/32 in Drive		
3/8 in	5YNY7	100
1/2 in	5YNY8	100
1/2-13 Thread, 1/4 in Drive		
3/8 in	5TCE3	100
1/2 in	5YNT4	100
5/8 in	5YNT5	100
3/4 in	5YNT6	100
7/8 in	5YNT7	50
1 in	5YNT8	50
1 1/4 in	5YNT9	50
1 1/2 in	5YNU0	50
1 3/4 in	5YNU1	25
2 in	5YNU2	25
2 1/2 in	5YNU3	25
3 in	5YNU4	25
1/2-20 Thread, 1/4 in Drive		
1/2 in	5YNY9	100
3/4 in	5YNZ0	100
1 in	5YNZ1	50

Flat Point Alloy Steel Socket Set Screws

Overall Length	Finish	Item No.	Pkg. Qty.
4-40 Thread, 1/20 in Drive			
⅛ in	Plain	25J660	100
⅛ in	Zinc	31KD96	100
3/16 in	Plain	25J661	100
3/16 in	Zinc	31KD97	100
¼ in	Plain	25J662	100
¼ in	Zinc	31KD98	100
⅜ in	Plain	25J663	100
⅜ in	Zinc	31KD99	100
5-40 Thread, 1/16 in Drive			
⅛ in	Plain	30P136	100
⅛ in	Zinc	31KE01	100
3/16 in	Plain	31KD09	100
3/16 in	Zinc	31KE02	100
¼ in	Plain	25J664	100
¼ in	Zinc	31KE03	100
⅜ in	Plain	31KD10	100
⅜ in	Zinc	31KE04	100
½ in	Plain	31KD11	100
½ in	Zinc	31KE05	100
6-32 Thread, 1/16 in Drive			
⅛ in	Plain	25J665	100
⅛ in	Zinc	31KE06	100
3/16 in	Plain	25J666	100
3/16 in	Zinc	31KE07	100
¼ in	Plain	25J667	100
¼ in	Zinc	31KE08	100
5/16 in	Plain	25J668	100
5/16 in	Zinc	31KE09	100
⅜ in	Plain	25J669	100
⅜ in	Zinc	31KE10	100
½ in	Plain	31KD12	100
½ in	Zinc	31KE11	100
⅝ in	Plain	31KD13	100
⅝ in	Zinc	31KE12	100
¾ in	Plain	31KD14	100
¾ in	Zinc	31KE13	100
1 in	Plain	31KD15	100
1 in	Zinc	31KE14	100
8-32 Thread, 5/64 in Drive			
⅛ in	Plain	5WJR5	50
⅛ in	Zinc	31KE15	100
3/16 in	Zinc	31KE16	100
3/16 in	Plain	31KK72	100
¼ in	Zinc	31KE17	100
¼ in	Plain	31KK73	100
5/16 in	Zinc	31KE18	100
5/16 in	Plain	31KK74	100
⅜ in	Zinc	31KE19	100
⅜ in	Plain	31KK75	100
½ in	Zinc	31KE20	100
½ in	Plain	31KK76	100
⅝ in	Plain	31KD16	100
⅝ in	Zinc	31KE21	100
¾ in	Plain	31KD17	100
¾ in	Zinc	31KE22	100
1 in	Plain	31KD18	100
1 in	Zinc	31KE23	100
10-24 Thread, 3/32 in Drive			
3/16 in	Zinc	31KE24	100
3/16 in	Plain	31KK77	100
¼ in	Zinc	31KE25	100
¼ in	Plain	31KK78	100
5/16 in	Zinc	31KE26	100
5/16 in	Plain	31KK79	100
⅜ in	Zinc	31KE27	100
⅜ in	Plain	31KK80	100
½ in	Zinc	31KE28	100
½ in	Plain	31KK81	100
⅝ in	Zinc	31KE29	100
⅝ in	Plain	31KK82	100
¾ in	Zinc	31KE30	100
¾ in	Plain	31KK83	100
1 in	Plain	31KD19	100
1 ¼ in	Plain	31KD20	100
1 ½ in	Plain	31KD21	100
1 in	Zinc	31KE31	100
1 ¼ in	Zinc	31KE32	100
1 ½ in	Zinc	31KE33	100
10-32 Thread, 3/32 in Drive			
3/16 in	Plain	25J682	50
¼ in	Plain	25J683	50
¼-20 Thread, ⅛ in Drive			
3/16 in	Zinc	31KE34	100
3/16 in	Plain	31KK84	100
¼ in	Plain	25J685	50
¼ in	Zinc	31KE35	100
5/16 in	Zinc	31KE36	100
5/16 in	Plain	31KK85	100
⅜ in	Zinc	31KE37	100
⅜ in	Plain	31KK86	100
½ in	Zinc	31KE38	100
½ in	Plain	31KK87	100
⅝ in	Zinc	31KE39	100
⅝ in	Plain	31KK88	100
¾ in	Zinc	31KE40	100
¾ in	Plain	31KK89	100
1 ¼ in	Plain	31KD22	100
1 ½ in	Plain	31KD23	100
1 ¾ in	Plain	31KD24	100
1 in	Zinc	31KE41	100
1 ¼ in	Zinc	31KE42	100
1 ½ in	Zinc	31KE43	100
1 ¾ in	Zinc	31KE44	100
1 in	Plain	31KK90	100
2 in	Plain	31KD25	100
2 in	Zinc	31KE45	100
¼-28 Thread, ⅛ in Drive			
¼ in	Plain	25J688	50
⅜ in	Plain	25J689	50
5/16-18 Thread, 5/32 in Drive			
3/16 in	Plain	31KD26	100
3/16 in	Zinc	31KE46	100
¼ in	Zinc	31KE47	100
¼ in	Plain	31KK91	100
5/16 in	Zinc	31KE48	100
5/16 in	Plain	31KK92	100
⅜ in	Zinc	31KE49	100
⅜ in	Plain	31KK93	100
½ in	Zinc	31KE50	100
½ in	Plain	31KK94	100
½ in	Natural	4FXE2	10
⅝ in	Zinc	31KE51	100
⅝ in	Plain	31KK95	100
¾ in	Zinc	31KE52	100
¾ in	Plain	31KK96	100
1 ¼ in	Plain	31KD27	100
1 ½ in	Plain	31KD28	100
1 ¾ in	Plain	31KD29	100
1 in	Zinc	31KE53	100
1 ¼ in	Zinc	31KE54	100
1 ½ in	Zinc	31KE55	100
1 ¾ in	Zinc	31KE56	100
1 in	Plain	31KK97	100
2 in	Plain	31KD30	100
2 in	Zinc	31KE57	100
5/16-24 Thread, 5/32 in Drive			
5/16 in	Plain	25J693	50
⅜ in	Plain	5WJP6	50
⅜-16 Thread, 3/16 in Drive			
¼ in	Zinc	31KE58	100
¼ in	Plain	31KK98	100
5/16 in	Zinc	31KE59	100
5/16 in	Plain	31KK99	100
⅜ in	Zinc	31KE60	100
⅜ in	Plain	31KL01	100
½ in	Zinc	31KE61	100
½ in	Plain	31KL02	100
⅝ in	Zinc	31KE62	100
⅝ in	Plain	31KL03	100
¾ in	Zinc	31KE63	100
¾ in	Plain	31KL04	100
1 ¼ in	Plain	31KD31	100
1 ½ in	Plain	31KD32	50
1 ¾ in	Plain	31KD33	50
1 in	Zinc	31KE64	100
1 ¼ in	Zinc	31KE65	100
1 ½ in	Zinc	31KE66	50
1 ¾ in	Zinc	31KE67	50
1 in	Plain	31KL05	100
2 in	Plain	31KD34	25
2 ½ in	Plain	31KD35	25
2 in	Zinc	31KE68	25
2 ½ in	Zinc	31KE69	25
⅜-24 Thread, 3/16 in Drive			
⅜ in	Plain	5WJR3	50
½ in	Plain	5WJR4	50
7/16-14 Thread, 7/32 in Drive			
⅜ in	Plain	31KD36	50
⅜ in	Zinc	31KE70	50
7/16 in	Plain	31KD37	50
7/16 in	Zinc	31KE71	50
½ in	Plain	31KD38	50
½ in	Zinc	31KE72	50
⅝ in	Plain	31KD39	50
⅝ in	Zinc	31KE73	50
¾ in	Plain	31KD40	50
¾ in	Zinc	31KE74	50
⅞ in	Plain	31KD41	50
⅞ in	Zinc	31KE75	50
1 in	Plain	31KD42	50
1 ¼ in	Plain	31KD43	25
1 ½ in	Plain	31KD44	25
1 ¾ in	Plain	31KD45	25
1 in	Zinc	31KE76	50
1 ¼ in	Zinc	31KE77	25
1 ½ in	Zinc	31KE78	25
1 ¾ in	Zinc	31KE79	25
2 in	Plain	31KD46	10
2 in	Zinc	31KE80	10
½-13 Thread, ¼ in Drive			
⅜ in	Plain	5WJR6	50
⅜ in	Zinc	31KE81	50
½ in	Plain	5WJR7	50
½ in	Zinc	31KE82	50
⅝ in	Plain	5WJR9	50
⅝ in	Zinc	31KE83	50
¾ in	Zinc	31KE84	25
¾ in	Plain	31KJ74	25
1 ¼ in	Plain	31KD47	25
1 ½ in	Plain	31KD48	25
1 ¾ in	Plain	31KD49	25
1 in	Zinc	31KE85	25
1 ¼ in	Zinc	31KE86	25
1 ½ in	Zinc	31KE87	25
1 ¾ in	Zinc	31KE88	25
1 in	Plain	31KJ75	25
2 in	Plain	31KD50	10
2 ½ in	Plain	31KD51	10
2 in	Zinc	31KE89	10
2 ½ in	Zinc	31KE90	10
3 in	Plain	31KD52	10
3 in	Zinc	31KE91	10
4 in	Plain	31KD53	10
4 in	Zinc	31KE92	10
⅝-11 Thread, 5/16 in Drive			
½ in	Plain	31KD54	10
½ in	Zinc	31KE93	10
⅝ in	Zinc	31KE94	10
⅝ in	Plain	31KJ76	10
¾ in	Plain	31KD55	10
¾ in	Zinc	31KE95	10
⅞ in	Plain	31KD56	10
⅞ in	Zinc	31KE96	10
1 in	Plain	31KD57	10
1 ¼ in	Plain	31KD58	10
1 ½ in	Plain	31KD59	10
1 ¾ in	Plain	31KD60	10
1 in	Zinc	31KE97	10
1 ¼ in	Zinc	31KE98	10
1 ½ in	Zinc	31KE99	10
1 ¾ in	Zinc	31KF01	10
2 in	Plain	31KD61	10
2 ½ in	Plain	31KD62	10
2 in	Zinc	31KF02	10
2 ½ in	Zinc	31KF03	10
3 ½ in	Plain	31KD63	5
3 ½ in	Zinc	31KF04	5
4 in	Plain	31KD64	5
4 in	Zinc	31KF05	5
¾-10 Thread, ⅜ in Drive			
⅝ in	Zinc	31KF06	5
¾ in	Zinc	31KF07	5
1 in	Zinc	31KF08	5
1 ¼ in	Zinc	31KF09	5
1 ½ in	Zinc	31KF10	5
1 ¾ in	Zinc	31KF11	5
2 in	Zinc	31KF12	5
2 ½ in	Zinc	31KF13	5
3 in	Zinc	31KF14	5

Alloy Steel Socket Set Screws

Note: Additional sizes are available; on Grainger.com search for "set screws."

Overall Length	Cone Item No.	Cone Pkg. Qty.	Oval Item No.	Oval Pkg. Qty.	½ Dog Item No.	½ Dog Pkg. Qty.
Alloy Steel						
4-40 Thread, 1/20 in Drive						
⅛ in	30P143	100	—	—	—	—
3/16 in	—	—	30P142	100	—	—
5-40 Thread, 1/16 in Drive						
¼ in	30P144	100	—	—	—	—
6-32 Thread, 1/16 in Drive						
⅛ in	30P145	100	—	—	—	—
3/16 in	30P146	100	—	—	—	—
¼ in	30P147	100	25J764	100	—	—
5/16 in	—	—	25J765	100	—	—
⅜ in	—	—	25J766	100	—	—
8-32 Thread, 5/64 in Drive						
3/16 in	30P148	100	25J767	100	25J724	100
¼ in	30P149	100	25J768	100	25J725	100
5/16 in	—	—	—	—	25J726	100
⅜ in	30P150	100	—	—	25J727	100
½ in	—	—	25J769	100	25J728	100
10-24 Thread, 3/32 in Drive						
3/16 in	—	—	25J770	100	25J729	100
¼ in	25J793	100	25J771	100	25J730	100
5/16 in	25J794	100	—	—	25J731	100
⅜ in	25J795	100	25J772	100	25J732	100
½ in	25J796	100	25J773	100	25J733	100
10-32 Thread, 3/32 in Drive						
3/16 in	30P151	100	25J774	100	25J734	100
¼ in	30P152	100	25J775	100	25J735	100
¼-20 Thread, ⅛ in Drive						
¼ in	30P153	100	31KL20	100	25J736	100
5/16 in	30P154	100	31KL21	100	25J737	100
⅜ in	30P155	100	31KL22	100	25J738	100
½ in	5WJT3	50	31KL23	100	25J739	100
⅝ in	31KK63	100	31KL24	100	25J740	100
¾ in	5WJT5	50	31KL25	100	25J741	100
1 in	31KK64	100	31KL26	100	25J742	100
¼-28 Thread, ⅛ in Drive						
¼ in	30P156	100	25J779	50	25J743	100
⅜ in	30P157	100	25J780	50	25J744	100
5/16-18 Thread, 5/32 in Drive						
¼ in	—	—	31KL27	100	—	—
5/16 in	5WJT7	50	31KL28	100	25J745	100
⅜ in	30P158	100	31KL29	100	25J746	100
½ in	30P159	100	31KL30	100	25J747	100
⅝ in	31KK65	100	31KL31	100	—	—
¾ in	31KK66	100	31KL32	100	30P139	100
1 in	31KK67	100	31KL33	100	—	—
5/16-24 Thread, 5/32 in Drive						
5/16 in	5WJU1	50	—	—	—	—
⅜ in	5WJU2	50	—	—	—	—
⅜-16 Thread, 3/16 in Drive						
⅜ in	31KK68	100	31KL34	100	25J748	100
½ in	31KK69	100	31KL35	100	25J749	100
⅝ in	—	—	31KL36	100	25J750	100
¾ in	31KK70	100	31KL37	100	25J751	100
1 in	31KK71	100	31KL38	100	25J752	100
1 ¼ in	—	—	—	—	25J753	100
⅜-24 Thread, 3/16 in Drive						
⅜ in	5WJU8	50	25J787	50	25J754	100
½ in	5WJU9	50	5MXV7	50	25J755	100
½-13 Thread, ¼ in Drive						
½ in	5WJV0	50	31KL39	50	31KL06	50
⅝ in	—	—	31KL40	50	31KL07	50
¾ in	5WJV1	25	25J790	25	25J758	25
1 in	31KJ73	25	25J791	25	25J759	25
1 ¼ in	—	—	—	—	25J760	25
½-20 Thread, ¼ in Drive						
½ in	—	—	25J792	25	—	—
⅝-11 Thread, 5/16 in Drive						
1 in	—	—	—	—	31KJ77	10
1 ¼ in	—	—	—	—	31KJ78	10
⅝-18 Thread, 5/16 in Drive						
⅝ in	—	—	—	—	25J763	25

Rivet Information

RIVET TYPES

Open-End—Retains the mandrel head within the body of the rivet. A strong, cost-effective alternative to tubular rivets in industrial applications with materials that do not have high load-bearing requirements. Go to Grainger.com® and search for "open-end rivets."

Closed-End—Provides greater shear and tensile strength over open-end rivets of similar sizes and materials. Seals liquidtight, with 100% mandrel retention. Go to Grainger.com® and search for "closed-end rivets."

Blind—Designed for blind-side applications where only 1 side of the material is accessible. Will not mar or scratch painted or other finished materials. See pages 2131, 2132, 2133, 2134.

HEAD TYPES

Dome—Provides a low-profile finished assembly.

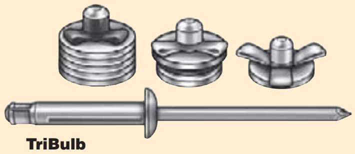
Large Flange—Provides greater bearing surface for fastening soft and brittle material. Also great to cover enlarged holes or slots.

TriBulb—Large blind-side footprint allows use in oversize holes. Use with both soft and brittle materials.

Closed-End

Domed

Large Flange


TriBulb

Multigrip

OTHER RIVET TYPES

See grainger.com/fasteners for our expanded rivet selection including the following.

Push-In

Usually made of nylon, push-in rivets expand to lock material into holes. Use on soft or hard materials.

Tubular/Semitubular

Rivets can be used to fasten soft and hard materials.

Tubular rivets have a hole in the headless end. Most commonly used in self-piercing applications where a predrilled hole is not required.

Semitubular rivets are similar to tubular rivets, but require much less insertion force.

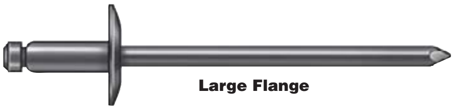
Solid

1-pc. fasteners are permanently set using a hammer or rivet press, and expand in the hole to securely lock parts together.

Split

Used to fasten soft materials together. 2 legs pierce the material and then fold over to fasten.

Domed


Large Flange

Blind Rivets

POP® Avdel®

Blind rivets have 2 parts: the rivet and the mandrel. The rivet fastens to the materials, and the mandrel is used to set the rivet and then is discarded.

Note: Countersunk, button, and structural domed rivets are available on Grainger.com®; search for the head type, such as "countersunk rivets."

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
Steel								
Domed								
3/32 in	0.178 in to 0.198 in	0.251 in to 0.375 in	0.5 in	Open	#41	—	**32ML12**	500
1/8 in	0.238 in to 0.262 in	0.020 in to 0.062 in	0.212 in	Open	#30	—	**32ML13**	500
		0.039 in to 0.126 in	0.323 in	Open	#30	—	**32MP03**	500
		0.039 in to 0.189 in	0.39 in	Open	#30	—	**32MP04**	500
		0.063 in to 0.252 in	0.449 in	Open	#30	—	**32MP05**	500
		0.126 in to 0.315 in	0.512 in	Open	#30	—	**32MP06**	500
		0.501 in to 0.625 in	0.775 in	Open	#30	—	**32ML20**	500
5/32 in	0.296 in to 0.328 in	0.063 in to 0.125 in	0.3 in	Open	#20	—	**32ML21**	500
		0.063 in to 0.189 in	0.413 in	Open	#20	—	**32MP10**	500
		0.063 in to 0.252 in	0.472 in	Open	#20	—	**32MP11**	500
		0.126 in to 0.187 in	0.362 in	Open	#20	—	**32ML22**	500
		0.126 in to 0.315 in	0.535 in	Open	#20	—	**32MP12**	500
		0.188 in to 0.250 in	0.425 in	Open	#20	—	**32ML23**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32ML24**	500
		0.315 in to 0.500 in	0.724 in	Open	#20	—	**32MP15**	500
		0.376 in to 0.500 in	0.675 in	Open	#20	—	**32ML25**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32ML26**	500
		0.626 in to 0.750 in	0.925 in	Open	#20	—	**32ML27**	500
3/16 in	0.356 in to 0.394 in	0.063 in to 0.125 in	0.325 in	Open	#11	—	**32ML28**	250
		0.063 in to 0.126 in	0.374 in	Open	#11	—	**32MP16**	250
		0.063 in to 0.189 in	0.437 in	Open	#11	—	**32MP17**	250
	0.400 in	0.063 in to 0.250 in	0.416 in	Open	#10	—	**32MR65**	250
	0.356 in to 0.394 in	0.063 in to 0.252 in	0.5 in	Open	#11	—	**32MP18**	250
		0.126 in to 0.187 in	0.387 in	Open	#11	—	**32ML29**	250
		0.126 in to 0.315 in	0.563 in	Open	#11	—	**32MP19**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32ML30**	250
		0.189 in to 0.378 in	0.626 in	Open	#11	—	**32MP20**	250
	0.400 in	0.214 in to 0.437 in	0.577 in	Open	#10	—	**32MR66**	250
	0.356 in to 0.394 in	0.252 in to 0.441 in	0.689 in	Open	#11	—	**32MP21**	250
		0.313 in to 0.375 in	0.575 in	Open	#11	—	**32ML31**	250
		0.315 in to 0.500 in	0.76 in	Open	#11	—	**32MP22**	250
		0.376 in to 0.500 in	0.7 in	Open	#11	—	**32ML32**	250
		0.378 in to 0.563 in	0.815 in	Open	#11	—	**32MP23**	250
		0.500 in to 0.689 in	0.937 in	Open	#11	—	**32MP24**	250
		0.501 in to 0.625 in	0.825 in	Open	#11	—	**32ML33**	250
		0.626 in to 0.750 in	0.95 in	Open	#11	—	**32ML34**	250
		0.751 in to 0.875 in	1.075 in	Open	#11	—	**32ML35**	250
		0.876 in to 1.000 in	1.2 in	Open	#11	—	**32ML36**	250
1/4 in	0.475 in to 0.525 in	0.376 in to 0.500 in	0.75 in	Open	F	—	**32ML39**	100
		0.751 in to 0.875 in	1.125 in	Open	F	—	**32ML42**	100
Large Flange								
1/8 in	0.238 in to 0.262 in	0.039 in to 0.189 in	0.39 in	Open	#30	—	**32MR55**	500
	0.360 in to 0.390 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32ML43**	500
		0.126 in to 0.187 in	0.337 in	Open	#30	—	**32ML44**	500
		0.188 in to 0.250 in	0.4 in	Open	#30	—	**32ML45**	500
		0.313 in to 0.375 in	0.525 in	Open	#30	—	**32ML46**	500
		0.376 in to 0.500 in	0.65 in	Open	#30	—	**32ML47**	500

CONTINUED

CONTINUED

Blind Rivets

POP Avdel

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
Steel (Cont.)								
Large Flange (Cont.)								
5/32 in	0.448 in to 0.488 in	0.126 in to 0.187 in	0.362 in	Open	#20	—	**32ML48**	500
		0.188 in to 0.250 in	0.425 in	Open	#20	—	**32ML49**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32ML50**	500
		0.376 in to 0.500 in	0.675 in	Open	#20	—	**32ML51**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32ML52**	500
3/16 in	0.600 in to 0.650 in	0.063 in to 0.252 in	0.5 in	Open	#11	—	**32MR58**	250
		0.126 in to 0.315 in	0.563 in	Open	#11	—	**32MR59**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32ML54**	250
		0.189 in to 0.378 in	0.626 in	Open	#11	—	**32MR60**	250
		0.252 in to 0.441 in	0.689 in	Open	#11	—	**32MR61**	250
		0.313 in to 0.375 in	0.575 in	Open	#11	—	**32ML55**	250
		0.376 in to 0.500 in	0.7 in	Open	#11	—	**32ML56**	250
		0.501 in to 0.625 in	0.825 in	Open	#11	—	**32ML57**	250
		0.626 in to 0.750 in	0.95 in	Open	#11	—	**32ML58**	250
		0.751 in to 0.875 in	1.075 in	Open	#11	—	**32ML59**	250
		0.876 in to 1.000 in	1.2 in	Open	#11	—	**32ML60**	250
Stainless Steel								
Domed								
1/8 in	0.228 in to 0.264 in	0.020 in to 0.062 in	0.297 in	Closed	#30	—	**32MN41**	500
	0.250 in	0.032 in to 0.062 in	0.188 in	Open	#30	Pop Avdel	**3ZKN7**	500
	0.238 in to 0.262 in	0.039 in to 0.189 in	0.39 in	Open	#30	—	**32MP26**	500
	0.250 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKN8**	500
	0.238 in to 0.262 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32ML79**	500
		0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MM08**	500
	0.228 in to 0.264 in	0.063 in to 0.125 in	0.36 in	Closed	#30	—	**32MN42**	500
	0.250 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZKP1**	500
	0.238 in to 0.262 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32ML80**	500
		0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MM09**	500
	0.228 in to 0.264 in	0.126 in to 0.187 in	0.422 in	Closed	#30	—	**32MN43**	500
	0.250 in	0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZKP3**	500
	0.238 in to 0.262 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32ML81**	500
		0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MM10**	500
	0.228 in to 0.264 in	0.188 in to 0.250 in	0.485 in	Closed	#30	—	**32MN44**	500
	0.250 in	0.251 in to 0.312 in	0.438 in	Open	#30	Pop Avdel	**3ZKP5**	500
	0.238 in to 0.262 in	0.251 in to 0.312 in	0.462 in	Open	#30	—	**32ML82**	500
		0.251 in to 0.312 in	0.462 in	Open	#30	—	**32MM11**	500
	0.228 in to 0.264 in	0.251 in to 0.312 in	0.547 in	Closed	#30	—	**32MN45**	500
	0.238 in to 0.262 in	0.313 in to 0.375 in	0.525 in	Open	#30	—	**32ML83**	500
		0.313 in to 0.375 in	0.525 in	Open	#30	—	**32MM12**	500
	0.228 in to 0.264 in	0.313 in to 0.375 in	0.61 in	Closed	#30	—	**32MN46**	500
	0.250 in	0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZKP6**	500
		0.376 in to 0.500 in	0.625 in	Open	#30	Pop Avdel	**3ZKP7**	500
	0.238 in to 0.262 in	0.376 in to 0.500 in	0.65 in	Open	#30	—	**32ML84**	500
		0.376 in to 0.500 in	0.65 in	Open	#30	—	**32MM13**	500
	0.228 in to 0.264 in	0.376 in to 0.500 in	0.735 in	Closed	#30	—	**32MN47**	500
5/32 in	0.296 in to 0.328 in	0.047 in to 0.126 in	0.35 in	Open	#20	—	**32MP31**	500
	0.312 in	0.063 in to 0.125 in	0.275 in	Open	#20	Pop Avdel	**3ZKP8**	500
	0.296 in to 0.328 in	0.063 in to 0.125 in	0.3 in	Open	#20	—	**32ML86**	500
		0.063 in to 0.125 in	0.3 in	Open	#20	—	**32MM15**	500
	0.272 in to 0.331 in	0.063 in to 0.125 in	0.375 in	Closed	#20	—	**32MN48**	500
	0.296 in to 0.328 in	0.063 in to 0.189 in	0.413 in	Open	#20	—	**32MP32**	500
		0.063 in to 0.252 in	0.472 in	Open	#20	—	**32MP33**	500
	0.312 in	0.126 in to 0.187 in	0.338 in	Open	#21	Pop Avdel	**3ZKP9**	500
	0.296 in to 0.328 in	0.126 in to 0.187 in	0.362 in	Open	#20	—	**32ML87**	500
		0.126 in to 0.187 in	0.362 in	Open	#20	—	**32MM16**	500
	0.272 in to 0.331 in	0.126 in to 0.187 in	0.437 in	Closed	#20	—	**32MN49**	500
	0.296 in to 0.328 in	0.126 in to 0.315 in	0.535 in	Open	#20	—	**32MP34**	500
	0.312 in	0.188 in to 0.250 in	0.4 in	Open	#20	Pop Avdel	**3ZKR1**	500
	0.296 in to 0.328 in	0.188 in to 0.250 in	0.425 in	Open	#20	—	**32ML88**	500
		0.188 in to 0.250 in	0.425 in	Open	#20	—	**32MM17**	500
	0.272 in to 0.331 in	0.188 in to 0.250 in	0.5 in	Closed	#20	—	**32MN50**	500
		0.251 in to 0.312 in	0.562 in	Closed	#20	—	**32MN51**	500
	0.312 in	0.251 in to 0.375 in	0.525 in	Open	#20	Pop Avdel	**3ZKR2**	500
	0.296 in to 0.328 in	0.252 in to 0.441 in	0.661 in	Open	#20	—	**32MP36**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32ML89**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32MM18**	500
	0.272 in to 0.331 in	0.313 in to 0.375 in	0.625 in	Closed	#20	—	**32MN52**	500
	0.296 in to 0.328 in	0.376 in to 0.500 in	0.675 in	Open	#20	—	**32ML90**	500
		0.376 in to 0.500 in	0.675 in	Open	#20	—	**32MM19**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32ML91**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32MM20**	500

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
3/16 in	0.375 in	0.063 in to 0.125 in	0.3 in	Open	#11	Pop Avdel	**3ZKR8**	250
	0.356 in to 0.394 in	0.063 in to 0.125 in	0.325 in	Open	#11	—	**32ML92**	250
		0.063 in to 0.125 in	0.325 in	Open	#11	—	**32MM21**	250
	0.327 in to 0.398 in	0.063 in to 0.125 in	0.406 in	Closed	#11	—	**32MN54**	250
	0.356 in to 0.394 in	0.063 in to 0.126 in	0.374 in	Open	#11	—	**32MP38**	250
		0.063 in to 0.189 in	0.437 in	Open	#11	—	**32MP39**	250
	0.400 in	0.063 in to 0.250 in	0.416 in	Open	#10	—	**32MR69**	250
	0.356 in to 0.394 in	0.063 in to 0.252 in	0.5 in	Open	#11	—	**32MP40**	250
	0.375 in	0.125 in to 0.188 in	0.422 in	Closed	#11	Pop Avdel	**3ZKR9**	100
	0.356 in to 0.394 in	0.126 in to 0.187 in	0.387 in	Open	#11	—	**32ML93**	250
		0.126 in to 0.187 in	0.387 in	Open	#11	—	**32MM22**	250
	0.327 in to 0.398 in	0.126 in to 0.187 in	0.468 in	Closed	#11	—	**32MN55**	250
	0.375 in	0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKT1**	250
	0.356 in to 0.394 in	0.126 in to 0.315 in	0.563 in	Open	#11	—	**32MP41**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32ML94**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32MM23**	250
	0.327 in to 0.398 in	0.188 in to 0.250 in	0.531 in	Closed	#11	—	**32MN56**	250
	0.400 in	0.214 in to 0.437 in	0.577 in	Open	#10	—	**32MR70**	250
	0.375 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKT3**	250
	0.356 in to 0.394 in	0.252 in to 0.441 in	0.689 in	Open	#11	—	**32MP43**	250
		0.313 in to 0.375 in	0.575 in	Open	#11	—	**32ML95**	250
		0.313 in to 0.375 in	0.575 in	Open	#11	—	**32MM24**	250
	0.327 in to 0.398 in	0.313 in to 0.375 in	0.656 in	Closed	#11	—	**32MN57**	250
	0.356 in to 0.394 in	0.315 in to 0.500 in	0.76 in	Open	#11	—	**32MP44**	250
	0.375 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKT5**	250
	0.356 in to 0.394 in	0.376 in to 0.500 in	0.7 in	Open	#11	—	**32ML96**	250
		0.376 in to 0.500 in	0.7 in	Open	#11	—	**32MM25**	250
	0.327 in to 0.398 in	0.376 in to 0.500 in	0.781 in	Closed	#11	—	**32MN58**	250
	0.356 in to 0.394 in	0.378 in to 0.563 in	0.815 in	Open	#11	—	**32MP45**	250
		0.500 in to 0.689 in	0.937 in	Open	#11	—	**32MP46**	250
	0.375 in	0.501 in to 0.625 in	0.8 in	Open	#10	Pop Avdel	**3ZKR3**	100
	0.356 in to 0.394 in	0.501 in to 0.625 in	0.825 in	Open	#11	—	**32ML97**	250
		0.501 in to 0.625 in	0.825 in	Open	#11	—	**32MM26**	250
	0.327 in to 0.398 in	0.501 in to 0.625 in	0.906 in	Closed	#11	—	**32MN59**	250
	0.356 in to 0.394 in	0.626 in to 0.750 in	0.95 in	Open	#11	—	**32ML98**	250
		0.626 in to 0.750 in	0.95 in	Open	#11	—	**32MM27**	250
	0.327 in to 0.398 in	0.626 in to 0.750 in	1.026 in	Closed	#11	—	**32MN60**	250
	0.375 in	0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZKR6**	100
	0.356 in to 0.394 in	0.876 in to 1.000 in	1.2 in	Open	#11	—	**32MM29**	250
1/4 in	0.530 in	0.080 in to 0.375 in	0.556 in	Open	G	—	**32MR71**	100
	0.475 in to 0.525 in	0.188 in to 0.250 in	0.5 in	Open	F	—	**32MM30**	100
		0.188 in to 0.250 in	0.5 in	Open	F	—	**32MM02**	100
		0.313 in to 0.375 in	0.625 in	Open	F	—	**32MM31**	100
		0.313 in to 0.375 in	0.625 in	Open	F	—	**32MM03**	100
	0.530 in	0.350 in to 0.625 in	0.806 in	Open	G	—	**32MR72**	100
	0.475 in to 0.525 in	0.376 in to 0.500 in	0.75 in	Open	F	—	**32MM32**	100
		0.376 in to 0.500 in	0.75 in	Open	F	—	**32MM04**	100
		0.501 in to 0.625 in	0.875 in	Open	F	—	**32MM33**	100
		0.501 in to 0.625 in	0.875 in	Open	F	—	**32MM05**	100
		0.626 in to 0.750 in	1.0 in	Open	F	—	**32MM34**	100
		0.626 in to 0.750 in	1.0 in	Open	F	—	**32MM06**	100
Large Flange								
1/8 in	0.375 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKN9**	500
	0.360 in to 0.390 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MM36**	500
	0.375 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZKP2**	500
	0.360 in to 0.390 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MM37**	500
	0.375 in	0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZKP4**	500
	0.360 in to 0.390 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MM38**	500
5/32 in	0.448 in to 0.488 in	0.313 in to 0.375 in	0.55 in	Open	#20	—	**32MM43**	500
3/16 in	0.625 in	0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKT2**	100
	0.600 in to 0.650 in	0.188 in to 0.250 in	0.45 in	Open	#11	—	**32MM47**	250
	0.625 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKT4**	100
	0.600 in to 0.650 in	0.313 in to 0.375 in	0.575 in	Open	#11	—	**32MM48**	250
	0.625 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKT6**	100
	0.600 in to 0.650 in	0.376 in to 0.500 in	0.7 in	Open	#11	—	**32MM49**	250
	0.625 in	0.501 in to 0.625 in	0.8 in	Open	#10	Pop Avdel	**3ZKR4**	100
	0.600 in to 0.650 in	0.501 in to 0.625 in	0.825 in	Open	#11	—	**32MM50**	250
	0.625 in	0.626 in to 0.750 in	0.925 in	Open	#10	Pop Avdel	**3ZKR5**	100
	0.600 in to 0.650 in	0.626 in to 0.750 in	0.95 in	Open	#11	—	**32MM51**	250
Plastic								
Domed								
6.0 mm	0.512 in	0.157 in to 0.335 in		Open	1/4 in	Pop Avdel	**3ZJN6**	25
6.3 mm	0.661 in	0.315 in to 0.472 in		Open	1/4 in	Pop Avdel	**3ZJP2**	25
C1006-C1010 Steel								
3/32 in	0.188 in	0.032 in to 0.125 in	0.225 in	Open	#41	Pop Avdel	**3ZKG6**	500
		0.126 in to 0.250 in	0.35 in	Open	#41	Pop Avdel	**3ZKG7**	500
1/8 in	0.250 in	0.032 in to 0.062 in	0.188 in	Open	#30	Pop Avdel	**3ZKG8**	500
		0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKH1**	500
		0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKG9**	500
		0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZKH3**	500
		0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZKH5**	500
		0.251 in to 0.312 in	0.438 in	Open	#30	Pop Avdel	**3ZKH7**	500
5/32 in	0.312 in	0.063 in to 0.125 in	0.275 in	Open	#20	Pop Avdel	**3ZKJ2**	500
		0.126 in to 0.187 in	0.338 in	Open	#20	Pop Avdel	**3ZKJ3**	500
		0.188 in to 0.250 in	0.4 in	Open	#20	Pop Avdel	**3ZKJ4**	500
		0.251 in to 0.375 in	0.525 in	Open	#20	Pop Avdel	**3ZKJ5**	500
		0.376 in to 0.500 in	0.65 in	Open	#20	Pop Avdel	**3ZKJ6**	500
3/16 in	0.375 in	0.063 in to 0.125 in	0.3 in	Open	#11	Pop Avdel	**3ZKK6**	250
		0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKK9**	250
		0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKL2**	250
		0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKL4**	250
		0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZKJ7**	250
		0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZKJ9**	250
		0.751 in to 0.875 in	1.05 in	Open	#11	Pop Avdel	**3ZKK2**	250
		0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZKK3**	250

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CONTINUED

Blind Rivets

POP Avdel

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
C1006-C1010 Steel (Cont.)								
1/4 in	0.500 in	0.063 in to 0.250 in	0.475 in	Open	F	Pop Avdel	**3ZKN1**	100
		0.376 in to 0.500 in	0.725 in	Open	F	Pop Avdel	**3ZKN3**	100
		0.501 in to 0.625 in	0.85 in	Open	F	Pop Avdel	**3ZKL6**	100
		0.626 in to 0.750 in	0.975 in	Open	F	Pop Avdel	**3ZKL7**	100
Large Flange								
1/8 in	0.375 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKH2**	500
		0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZKH4**	500
		0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZKH6**	500
	0.250 in	0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZKH9**	500
3/16 in	0.625 in	0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKL1**	250
		0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKL3**	250
		0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKL5**	250
		0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZKJ8**	250
		0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZKK1**	250
Aluminum								
1/8 in	0.360 in to 0.390 in	0.039 in to 0.189 in	0.323 in	Open	#30	—	**32MR12**	500
		0.063 in to 0.252 in	0.39 in	Open	#30	—	**32MR13**	500
		0.126 in to 0.315 in	0.449 in	Open	#30	—	**32MR14**	500
		0.189 in to 0.378 in	0.512 in	Open	#30	—	**32MR15**	500
		0.315 in to 0.500 in	0.638 in	Open	#30	—	**32MR17**	500
5/32 in	0.448 in to 0.488 in	0.063 in to 0.252 in	0.413 in	Open	#20	—	**32MR19**	500
		0.126 in to 0.315 in	0.472 in	Open	#20	—	**32MR20**	500
		0.189 in to 0.378 in	0.535 in	Open	#20	—	**32MR21**	500
		0.252 in to 0.441 in	0.598 in	Open	#20	—	**32MR22**	500
		0.315 in to 0.500 in	0.661 in	Open	#20	—	**32MR23**	500
3/16 in	0.356 in to 0.394 in	0.063 in to 0.252 in	0.437 in	Open	#11	—	**32MR47**	250
	0.600 in to 0.650 in	0.063 in to 0.252 in	0.437 in	Open	#11	—	**32MR26**	250
		0.126 in to 0.378 in	0.563 in	Open	#11	—	**32MR27**	250
		0.189 in to 0.441 in	0.626 in	Open	#11	—	**32MR28**	250
	0.356 in to 0.394 in	0.315 in to 0.500 in	0.689 in	Open	#11	—	**32MR50**	250
	0.600 in to 0.650 in	0.315 in to 0.500 in	0.689 in	Open	#11	—	**32MR29**	250
		0.378 in to 0.563 in	0.76 in	Open	#11	—	**32MR30**	250
	0.356 in to 0.394 in	0.441 in to 0.752 in	0.937 in	Open	#11	—	**32MR52**	250
	0.600 in to 0.650 in	0.441 in to 0.752 in	0.937 in	Open	#11	—	**32MR31**	250
		0.500 in to 0.882 in	1.063 in	Open	#11	—	**32MR32**	250
5056 Aluminum								
Domed								
3/32 in	0.188 in	0.032 in to 0.125 in	0.225 in	Open	#41	Pop Avdel	**3ZJP9**	500
		0.126 in to 0.250 in	0.35 in	Open	#41	Pop Avdel	**3ZJR2**	500
	0.178 in to 0.198 in	0.251 in to 0.375 in	0.5 in	Open	#41	—	**32MK58**	500
1/8 in	0.250 in	0.032 in to 0.062 in	0.188 in	Open	#30	Pop Avdel	**3ZJR8**	500
	0.236 in	0.032 in to 0.062 in	0.237 in	Closed	#30	Pop Avdel	**3ZJR9**	500
		0.063 in to 0.125 in	0.301 in	Closed	#30	Pop Avdel	**3ZJT6**	500
	0.250 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJU3**	500
	0.236 in	0.126 in to 0.187 in	0.362 in	Closed	#30	Pop Avdel	**3ZJU5**	500
		0.188 in to 0.250 in	0.425 in	Closed	#30	Pop Avdel	**3ZJV2**	500
		0.251 in to 0.312 in	0.487 in	Closed	#30	Pop Avdel	**3ZJV5**	500
	0.224 in to 0.252 in	0.313 in to 0.375 in	0.61 in	Closed	#30	—	**32MM97**	500
	0.250 in	0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZJV8**	500
	0.236 in	0.313 to 0.375 in	0.55 in	Closed	#30	Pop Avdel	**3ZJW1**	500
	0.250 in	0.376 in to 0.500 in	0.625 in	Open	#30	Pop Avdel	**3ZJW3**	500
	0.238 in to 0.262 in	0.376 in to 0.500 in	0.65 in	Open	#30	—	**32MK65**	500
	0.224 in to 0.252 in	0.376 in to 0.500 in	0.735 in	Closed	#30	—	**32MM98**	500
	0.250 in	0.501 in to 0.625 in	0.75 in	Open	#30	Pop Avdel	**3ZJR4**	500
	0.238 in to 0.262 in	0.626 in to 0.750 in	0.9 in	Open	#30	—	**32MK67**	500
5/32 in	0.312 in	0.063 in to 0.125 in	0.275 in	Open	#20	Pop Avdel	**3ZJW6**	500
		0.063 in to 0.125 in	0.315 in	Closed	#20	Pop Avdel	**3ZJW7**	500
	0.296 in to 0.328 in	0.063 in to 0.125 in	0.3 in	Open	#20	—	**32MK68**	500
		0.063 in to 0.125 in	0.375 in	Closed	#20	—	**32MM99**	500
	0.312 in	0.126 in to 0.187 in	0.338 in	Open	#20	Pop Avdel	**3ZJW9**	500
	0.296 in to 0.328 in	0.126 in to 0.187 in	0.362 in	Open	#20	—	**32MK69**	500
		0.126 in to 0.187 in	0.437 in	Closed	#20	—	**32MN01**	500
	0.312 in	0.188 in to 0.250 in	0.4 in	Open	#20	Pop Avdel	**3ZJX4**	500
	0.296 in to 0.328 in	0.188 in to 0.250 in	0.425 in	Open	#20	—	**32MK70**	500
		0.188 in to 0.250 in	0.5 in	Closed	#20	—	**32MN02**	500
	0.312 in	0.251 in to 0.312 in	0.502 in	Closed	#20	Pop Avdel	**3ZJX5**	500
	0.296 in to 0.328 in	0.251 in to 0.312 in	0.562 in	Closed	#20	—	**32MN03**	500
	0.312 in	0.251 in to 0.375 in	0.525 in	Open	#20	Pop Avdel	**3ZJX7**	500
	0.296 in to 0.328 in	0.313 in to 0.375 in	0.55 in	Open	#20	—	**32MK71**	500
	0.312 in	0.376 in to 0.500 in	0.65 in	Open	#20	Pop Avdel	**3ZJX9**	500
	0.296 in to 0.328 in	0.376 in to 0.500 in	0.675 in	Open	#20	—	**32MK72**	500
		0.376 in to 0.500 in	0.75 in	Closed	#20	—	**32MN05**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32MK73**	500
		0.626 in to 0.750 in	0.925 in	Open	#20	—	**32MK74**	500
3/16 in	0.375 in	0.063 in to 0.125 in	0.3 in	Open	#11	Pop Avdel	**3ZKA1**	250
	0.357 in	0.063 in to 0.125 in	0.33 in	Closed	#11	Pop Avdel	**3ZKA3**	250
	0.356 in to 0.394 in	0.063 in to 0.125 in	0.325 in	Open	#11	—	**32MK75**	250
		0.063 in to 0.125 in	0.406 in	Closed	#11	—	**32MN06**	250
		0.126 in to 0.187 in	0.387 in	Open	#11	—	**32MK76**	250
		0.126 in to 0.187 in	0.468 in	Closed	#11	—	**32MN07**	250
	0.357 in	0.188 in to 0.250 in	0.455 in	Closed	#11	Pop Avdel	**3ZKA9**	250
	0.356 in to 0.394 in	0.188 in to 0.250 in	0.45 in	Open	#11	—	**32MK77**	250
		0.188 in to 0.250 in	0.531 in	Closed	#11	—	**32MN08**	250
	0.375 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKC5**	250
	0.356 in to 0.394 in	0.313 in to 0.375 in	0.575 in	Open	#11	—	**32MK78**	250
		0.313 in to 0.375 in	0.656 in	Closed	#11	—	**32MN09**	250
	0.357 in	0.313 to 0.375 in	0.58 in	Closed	#11	Pop Avdel	**3ZKC7**	250
	0.375 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKD2**	250
	0.357 in	0.376 in to 0.500 in	0.705 in	Closed	#11	Pop Avdel	**3ZKD4**	250
	0.356 in to 0.394 in	0.376 in to 0.500 in	0.7 in	Open	#11	—	**32MK79**	250
		0.376 in to 0.500 in	0.781 in	Closed	#11	—	**32MN10**	250
		0.501 in to 0.625 in	0.825 in	Open	#11	—	**32MK80**	250
		0.626 in to 0.750 in	0.95 in	Open	#11	—	**32MK81**	250
		0.751 in to 0.875 in	1.075 in	Open	#11	—	**32MK82**	250
	0.375 in	0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZJZ3**	250
	0.356 in to 0.394 in	0.876 in to 1.000 in	1.2 in	Open	#11	—	**32MK83**	250

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
1/4 in	0.500 in	0.063 in to 0.250 in	0.475 in	Open	F	Pop Avdel	**3ZKE2**	100
	0.475 in to 0.525 in	0.126 in to 0.250 in	0.57 in	Closed	F	—	**32MN14**	100
	0.500 in	0.126 in to 0.250 in	0.485 in	Closed	F	Pop Avdel	**3ZKE3**	100
	0.475 in to 0.525 in	0.251 in to 0.375 in	0.695 in	Closed	F	—	**32MN15**	100
	0.500 in	0.251 in to 0.375 in	0.61 in	Closed	F	Pop Avdel	**3ZKE6**	100
	0.475 in to 0.525 in	0.313 in to 0.375 in	0.625 in	Open	F	—	**32MK85**	100
		0.376 in to 0.500 in	0.75 in	Open	F	—	**32MK86**	100
	0.500 in	0.376 in to 0.500 in	0.725 in	Open	F	Pop Avdel	**3ZKE8**	100
		0.501 in to 0.625 in	0.85 in	Open	F	Pop Avdel	**3ZKD6**	100
	0.475 in to 0.525 in	0.501 in to 0.625 in	0.875 in	Open	F	—	**32MK87**	100
		0.626 in to 0.750 in	1.0 in	Open	F	—	**32MK88**	100
	0.500 in	0.626 in to 0.750 in	0.975 in	Open	F	Pop Avdel	**3ZKD8**	100
	0.475 in to 0.525 in	0.751 in to 0.875 in	1.125 in	Open	F	—	**32MK89**	100
Large Flange								
1/8 in	0.375 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZJT2**	500
		0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZJT5**	500
	0.360 in to 0.390 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MK90**	500
	0.375 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJU4**	500
	0.360 in to 0.390 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MK91**	500
	0.375 in	0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZJV1**	500
	0.360 in to 0.390 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MK92**	500
		0.313 in to 0.375 in	0.525 in	Open	#30	—	**32MK93**	500
		0.376 in to 0.500 in	0.65 in	Open	#30	—	**32MK94**	500
5/32 in	0.448 in to 0.488 in	0.188 in to 0.250 in	0.425 in	Open	#20	—	**32MK97**	500
		0.376 in to 0.500 in	0.675 in	Open	#20	—	**32MK99**	500
3/16 in	0.600 in to 0.650 in	0.126 in to 0.187 in	0.387 in	Open	#11	—	**32ML02**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32ML03**	250
	0.625 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKC6**	250
	0.600 in to 0.650 in	0.313 in to 0.375 in	0.575 in	Open	#11	—	**32ML04**	250
	0.625 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKD3**	250
	0.600 in to 0.650 in	0.376 in to 0.500 in	0.7 in	Open	#11	—	**32ML05**	250
	0.625 in	0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZJY4**	250
	0.600 in to 0.650 in	0.501 in to 0.625 in	0.825 in	Open	#11	—	**32ML06**	250
	0.625 in	0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZJY8**	250
	0.600 in to 0.650 in	0.626 in to 0.750 in	0.95 in	Open	#11	—	**32ML07**	250
		0.751 in to 0.875 in	1.075 in	Open	#11	—	**32ML08**	250
	0.625 in	0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZJZ4**	250
	0.600 in to 0.650 in	0.876 in to 1.000 in	1.2 in	Open	#11	—	**32ML09**	250
5052 Aluminum								
Domed								
3/32 in	0.178 in to 0.198 in	0.020 in to 0.125 in	0.25 in	Open	#41	—	**32MJ64**	500
	0.188 in	0.032 in to 0.125 in	0.225 in	Open	#41	Pop Avdel	**3ZJP8**	500
		0.126 in to 0.250 in	0.35 in	Open	#41	Pop Avdel	**3ZJR1**	500
	0.178 in to 0.198 in	0.126 in to 0.250 in	0.375 in	Open	#41	—	**32MJ65**	500
		0.251 in to 0.375 in	0.5 in	Open	#41	—	**32MJ66**	500
1/8 in	0.238 in to 0.262 in	0.020 in to 0.062 in	0.212 in	Open	#30	—	**32MJ67**	500
	0.250 in	0.032 in to 0.062 in	0.188 in	Open	#30	Pop Avdel	**3ZJR7**	500
		0.039 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJR5**	500
	0.238 in to 0.262 in	0.039 in to 0.189 in	0.323 in	Open	#30	—	**32MN81**	500
		0.039 in to 0.189 in	0.323 in	Open	#30	—	**32MN61**	500
	0.250 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZJT1**	500
	0.238 in to 0.262 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MJ68**	500
		0.063 in to 0.252 in	0.39 in	Open	#30	—	**32MN82**	500
		0.063 in to 0.252 in	0.39 in	Open	#30	—	**32MN62**	500
	0.250 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJT9**	500
	0.238 in to 0.262 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MJ69**	500
		0.126 in to 0.315 in	0.449 in	Open	#30	—	**32MN83**	500
	0.250 in	0.157 in to 0.312 in	0.453 in	Open	#30	Pop Avdel	**3ZJT7**	500
		0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZJU6**	500
	0.238 in to 0.262 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MJ70**	500
		0.189 in to 0.378 in	0.512 in	Open	#30	—	**32MN64**	500
	0.250 in	0.251 in to 0.312 in	0.438 in	Open	#30	Pop Avdel	**3ZJV3**	500
	0.238 in to 0.262 in	0.251 in to 0.312 in	0.462 in	Open	#30	—	**32MJ71**	500
		0.252 in to 0.441 in	0.575 in	Open	#30	—	**32MN65**	500
	0.250 in	0.313 in to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZJV6**	500
	0.238 in to 0.262 in	0.313 in to 0.375 in	0.525 in	Open	#30	—	**32MJ72**	500
		0.315 in to 0.500 in	0.638 in	Open	#30	—	**32MN66**	500
	0.250 in	0.376 in to 0.500 in	0.625 in	Open	#30	Pop Avdel	**3ZJW2**	500
	0.238 in to 0.262 in	0.376 in to 0.500 in	0.65 in	Open	#30	—	**32MJ73**	500
	0.250 in	0.501 in to 0.625 in	0.75 in	Open	#31	Pop Avdel	**3ZJR3**	500
	0.238 in to 0.262 in	0.501 in to 0.625 in	0.775 in	Open	#30	—	**32MJ74**	500
		0.626 in to 0.750 in	0.9 in	Open	#30	—	**32MJ75**	500
5/32 in	0.296 in to 0.328 in	0.047 in to 0.189 in	0.35 in	Open	#20	—	**32MN67**	500
	0.312 in	0.047 in to 0.250 in	0.4 in	Open	#20	Pop Avdel	**3ZJW4**	500
		0.063 in to 0.125 in	0.275 in	Open	#20	Pop Avdel	**3ZJW5**	500
	0.296 in to 0.328 in	0.063 in to 0.125 in	0.3 in	Open	#20	—	**32MJ76**	500
		0.063 in to 0.252 in	0.413 in	Open	#20	—	**32MN68**	500
	0.312 in	0.126 in to 0.187 in	0.338 in	Open	#20	Pop Avdel	**3ZJW8**	500
	0.296 in to 0.328 in	0.126 in to 0.187 in	0.362 in	Open	#20	—	**32MJ77**	500
		0.126 in to 0.315 in	0.472 in	Open	#20	—	**32MN69**	500
	0.312 in	0.188 in to 0.250 in	0.4 in	Open	#20	Pop Avdel	**3ZJX2**	500
	0.296 in to 0.328 in	0.188 in to 0.250 in	0.425 in	Open	#20	—	**32MJ78**	500
		0.189 in to 0.378 in	0.535 in	Open	#20	—	**32MN70**	500
	0.312 in	0.251 in to 0.375 in	0.525 in	Open	#20	Pop Avdel	**3ZJX6**	500
	0.296 in to 0.328 in	0.252 in to 0.441 in	0.598 in	Open	#20	—	**32MN71**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32MJ79**	500
		0.315 in to 0.500 in	0.661 in	Open	#20	—	**32MN72**	500
		0.315 in to 0.500 in	0.661 in	Open	#20	—	**32MN92**	500
	0.312 in	0.376 in to 0.500 in	0.65 in	Open	#21	Pop Avdel	**3ZJX8**	500
	0.296 in to 0.328 in	0.376 in to 0.500 in	0.675 in	Open	#20	—	**32MJ80**	500
		0.378 in to 0.563 in	0.724 in	Open	#20	—	**32MN73**	500
		0.441 in to 0.630 in	0.787 in	Open	#20	—	**32MN74**	500
		0.501 in to 0.625 in	0.8 in	Open	#20	—	**32MJ81**	500
		0.626 in to 0.750 in	0.925 in	Open	#20	—	**32MJ82**	500

CONTINUED

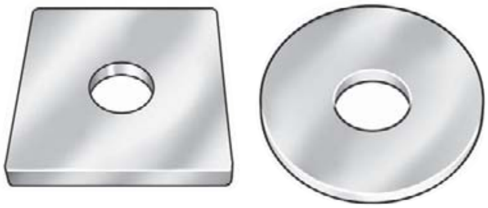
CONTINUED

Blind Rivets

POP Avdel

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
5052 Aluminum (Cont.)								
Domed (Cont.)								
3⁄16 in	0.375 in	0.063 in to 0.125 in	0.425 in	Open	#11	Pop Avdel	**3ZKA4**	250
		0.063 in to 0.125 in	0.3 in	Open	#11	Pop Avdel	**3ZJZ8**	250
	0.356 in to 0.394 in	0.063 in to 0.125 in	0.325 in	Open	#11	—	**32MJ83**	250
	0.375 in	0.063 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZJZ5**	250
	0.356 in to 0.394 in	0.063 in to 0.252 in	0.437 in	Open	#11	—	**32MN75**	250
		0.063 in to 0.252 in	0.437 in	Open	#11	—	**32MN95**	250
		0.126 in to 0.187 in	0.387 in	Open	#11	—	**32MJ84**	250
	0.375 in	0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKA6**	500
	0.356 in to 0.394 in	0.126 in to 0.378 in	0.563 in	Open	#11	—	**32MN76**	250
		0.188 in to 0.250 in	0.45 in	Open	#11	—	**32MJ85**	250
		0.189 in to 0.441 in	0.626 in	Open	#11	—	**32MN77**	250
		0.189 in to 0.441 in	0.626 in	Open	#11	—	**32MN97**	250
	0.375 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKC2**	250
	0.356 in to 0.394 in	0.313 in to 0.375 in	0.575 in	Open	#11	—	**32MJ86**	250
		0.315 in to 0.500 in	0.689 in	Open	#11	—	**32MN78**	250
		0.315 in to 0.500 in	0.689 in	Open	#11	—	**32MN98**	250
		0.376 in to 0.500 in	0.7 in	Open	#11	—	**32MJ87**	250
	0.375 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKC8**	250
	0.356 in to 0.394 in	0.378 in to 0.563 in	0.76 in	Open	#11	—	**32MN79**	250
		0.441 in to 0.752 in	0.937 in	Open	#11	—	**32MN80**	250
		0.441 in to 0.752 in	0.937 in	Open	#11	—	**32MP01**	250
		0.500 in to 0.882 in	1.063 in	Open	#11	—	**32MK36**	250
	0.375 in	0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZJY1**	250
		0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZJY3**	250
	0.356 in to 0.394 in	0.501 in to 0.625 in	0.825 in	Open	#11	—	**32MJ88**	250
	0.375 in	0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZJY5**	250
	0.356 in to 0.394 in	0.626 in to 0.750 in	0.95 in	Open	#11	—	**32MJ89**	250
		0.630 in to 1.000 in	1.189 in	Open	#11	—	**32MK37**	250
	0.375 in	0.751 in to 0.875 in	1.05 in	Open	#11	Pop Avdel	**3ZJY9**	250
	0.356 in to 0.394 in	0.751 in to 0.875 in	1.075 in	Open	#11	—	**32MJ90**	250
	0.375 in	0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZJZ1**	250
	0.356 in to 0.394 in	0.876 in to 1.000 in	1.2 in	Open	#11	—	**32MJ91**	250
1⁄4 in	0.500 in	0.063 in to 0.250 in	0.475 in	Open	F	Pop Avdel	**3ZKE1**	100
	0.475 in to 0.525 in	0.188 in to 0.250 in	0.5 in	Open	F	—	**32MJ92**	100
	0.500 in	0.251 in to 0.375 in	0.6 in	Open	F	Pop Avdel	**3ZKE4**	100
	0.475 in to 0.525 in	0.313 in to 0.375 in	0.625 in	Open	F	—	**32MJ93**	100
		0.376 in to 0.500 in	0.75 in	Open	F	—	**32MJ94**	100
	0.500 in	0.376 in to 0.500 in	0.725 in	Open	F	Pop Avdel	**3ZKE7**	100
		0.501 in to 0.625 in	0.85 in	Open	F	Pop Avdel	**3ZKD5**	100
	0.475 in to 0.525 in	0.501 in to 0.625 in	0.875 in	Open	F	—	**32MJ95**	100
	0.500 in	0.626 in to 0.750 in	0.975 in	Open	F	Pop Avdel	**3ZKD7**	100
	0.475 in to 0.525 in	0.626 in to 0.750 in	1.0 in	Open	F	—	**32MJ96**	100
		0.751 in to 0.875 in	1.125 in	Open	F	—	**32MJ97**	100
Large Flange								
1⁄8 in	0.360 in to 0.390 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MJ98**	500
	0.375 in	0.100 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJR6**	500
	0.250 in	0.126 in to 0.187 in	0.313 in	Open	#30	Pop Avdel	**3ZJU1**	500
	0.360 in to 0.390 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MJ99**	500
	0.375 in	0.157 in to 0.312 in	0.453 in	Open	#30	Pop Avdel	**3ZJT8**	500
		0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZJU7**	500
	0.360 in to 0.390 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MK01**	500
		0.313 in to 0.375 in	0.525 in	Open	#30	—	**32MK02**	500
	0.250 in	0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZJV7**	500
		0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZJV9**	500
	0.360 in to 0.390 in	0.376 in to 0.500 in	0.65 in	Open	#30	—	**32MK03**	500
5⁄32 in	0.448 in to 0.488 in	0.188 in to 0.250 in	0.425 in	Open	#20	—	**32MK06**	500
		0.313 in to 0.375 in	0.55 in	Open	#20	—	**32MK07**	500
		0.376 in to 0.500 in	0.675 in	Open	#20	—	**32MK08**	500
3⁄16 in	0.375 in	0.063 in to 0.125 in	0.3 in	Open	#11	Pop Avdel	**3ZKA2**	250
	0.625 in	0.063 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZJZ6**	250
		0.126 in to 0.250 in	0.425 in	Open	#11	Pop Avdel	**3ZKA7**	250
	0.600 in to 0.650 in	0.188 in to 0.250 in	0.45 in	Open	#11	—	**32MK11**	250
	0.625 in	0.251 in to 0.375 in	0.55 in	Open	#11	Pop Avdel	**3ZKC3**	250
		0.251 in to 0.500 in	0.716 in	Open	#11	Pop Avdel	**3ZKC1**	250
	0.600 in to 0.650 in	0.313 in to 0.375 in	0.575 in	Open	#11	—	**32MK12**	250
		0.376 in to 0.500 in	0.7 in	Open	#11	—	**32MK13**	250
	0.625 in	0.376 in to 0.500 in	0.675 in	Open	#11	Pop Avdel	**3ZKC9**	250
		0.501 in to 0.625 in	0.8 in	Open	#11	Pop Avdel	**3ZJY2**	250
	0.600 in to 0.650 in	0.501 in to 0.625 in	0.825 in	Open	#11	—	**32MK14**	250
	0.625 in	0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZJY6**	250
	0.600 in to 0.650 in	0.626 in to 0.750 in	0.95 in	Open	#11	—	**32MK15**	250
		0.751 in to 0.875 in	1.075 in	Open	#11	—	**32MK16**	250
	0.375 in	0.876 in to 1.000 in	1.175 in	Open	#11	Pop Avdel	**3ZJZ2**	250
	0.600 in to 0.650 in	0.876 in to 1.000 in	1.2 in	Open	#11	—	**32MK17**	250
110 Copper								
Domed								
1⁄8 in	0.220 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZKG2**	500

Rivet Dia.	Head Dia.	Grip Range	Rivet Length	Rivet Type	Drill Size	Brand	Item No.	Pkg. Qty.
1100 Aluminum								
1⁄8 in	0.224 in to 0.252 in	0.020 in to 0.062 in	0.297 in	Closed	#30	—	**32MM72**	500
	0.236 in	0.063 in to 0.125 in	0.302 in	Closed	#30	Pop Avdel	**3ZJT3**	500
	0.224 in to 0.252 in	0.063 in to 0.125 in	0.36 in	Closed	#30	—	**32MM73**	500
	0.236 in	0.126 in to 0.187 in	0.362 in	Closed	#30	Pop Avdel	**3ZJU2**	500
	0.224 in to 0.252 in	0.126 in to 0.187 in	0.422 in	Closed	#30	—	**32MM74**	500
	0.236 in	0.188 in to 0.250 in	0.425 in	Closed	#30	Pop Avdel	**3ZJU8**	500
	0.224 in to 0.252 in	0.188 in to 0.250 in	0.485 in	Closed	#30	—	**32MM75**	500
		0.251 in to 0.312 in	0.547 in	Closed	#30	—	**32MM76**	500
		0.313 in to 0.375 in	0.61 in	Closed	#30	—	**32MM77**	500
5⁄32 in	0.296 in to 0.328 in	0.126 in to 0.187 in	0.437 in	Closed	#20	—	**32MM80**	500
		0.188 in to 0.250 in	0.5 in	Closed	#20	—	**32MM81**	500
	0.312 in	0.188 to 0.250 in	0.44 in	Closed	#20	Pop Avdel	**3ZJX3**	500
	0.296 in to 0.328 in	0.251 in to 0.312 in	0.562 in	Closed	#20	—	**32MM82**	500
		0.313 in to 0.375 in	0.625 in	Closed	#20	—	**32MM83**	500
3⁄16 in	0.357 in	0.063 in to 0.125 in	0.33 in	Closed	#11	Pop Avdel	**3ZJZ9**	250
	0.356 in to 0.394 in	0.063 in to 0.125 in	0.406 in	Closed	#11	—	**32MM85**	250
		0.126 in to 0.187 in	0.468 in	Closed	#11	—	**32MM86**	250
	0.357 in	0.126 in to 0.250 in	0.455 in	Closed	#11	Pop Avdel	**3ZKA8**	250
	0.356 in to 0.394 in	0.188 in to 0.250 in	0.531 in	Closed	#11	—	**32MM87**	250
		0.313 in to 0.375 in	0.656 in	Closed	#11	—	**32MM88**	250
	0.357 in	0.313 to 0.375 in	0.58 in	Closed	#11	Pop Avdel	**3ZKC4**	250
		0.376 in to 0.500 in	0.705 in	Closed	#11	Pop Avdel	**3ZKD1**	250
	0.356 in to 0.394 in	0.376 in to 0.500 in	0.781 in	Closed	#11	—	**32MM89**	250
3⁄32 in	0.178 in to 0.198 in	0.020 in to 0.125 in	0.25 in	Open	#41	—	**32MK56**	500
		0.020 in to 0.125 in	0.25 in	Open	#41	—	**32ML10**	500
		0.126 in to 0.250 in	0.375 in	Open	#41	—	**32MK57**	500
		0.126 in to 0.250 in	0.375 in	Open	#41	—	**32ML11**	500
1⁄8 in	0.238 in to 0.262 in	0.020 in to 0.062 in	0.212 in	Open	#30	—	**32MK59**	500
	0.224 in to 0.252 in	0.020 in to 0.062 in	0.297 in	Closed	#30	—	**32MM92**	500
	0.250 in	0.063 in to 0.125 in	0.25 in	Open	#30	Pop Avdel	**3ZJT4**	500
	0.238 in to 0.262 in	0.063 in to 0.125 in	0.275 in	Open	#30	—	**32MK60**	500
		0.063 in to 0.125 in	0.275 in	Open	#30	—	**32ML14**	500
	0.224 in to 0.252 in	0.063 in to 0.125 in	0.36 in	Closed	#30	—	**32MM93**	500
	0.238 in to 0.262 in	0.126 in to 0.187 in	0.337 in	Open	#30	—	**32MK61**	500
		0.126 in to 0.187 in	0.337 in	Open	#30	—	**32ML15**	500
	0.224 in to 0.252 in	0.126 in to 0.187 in	0.422 in	Closed	#30	—	**32MM94**	500
	0.238 in to 0.262 in	0.126 in to 0.315 in	0.449 in	Open	#30	—	**32MN63**	500
	0.250 in	0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZJU9**	500
	0.238 in to 0.262 in	0.188 in to 0.250 in	0.4 in	Open	#30	—	**32MK62**	500
		0.188 in to 0.250 in	0.4 in	Open	#30	—	**32ML16**	500
	0.224 in to 0.252 in	0.188 in to 0.250 in	0.485 in	Closed	#30	—	**32MM95**	500
	0.220 in	0.188 in to 0.250 in	0.375 in	Open	#30	Pop Avdel	**3ZKG3**	500
	0.238 in to 0.262 in	0.251 in to 0.312 in	0.462 in	Open	#30	—	**32MK63**	500
		0.251 in to 0.312 in	0.462 in	Open	#30	—	**32ML17**	500
	0.224 in to 0.252 in	0.251 in to 0.312 in	0.547 in	Closed	#30	—	**32MM96**	500
	0.238 in to 0.262 in	0.313 in to 0.375 in	0.525 in	Open	#30	—	**32MK64**	500
		0.313 in to 0.375 in	0.525 in	Open	#30	—	**32ML18**	500
	0.250 in	0.313 to 0.375 in	0.5 in	Open	#30	Pop Avdel	**3ZKH8**	500
		0.376 in to 0.500 in	0.625 in	Open	#30	Pop Avdel	**3ZKJ1**	500
	0.238 in to 0.262 in	0.376 in to 0.500 in	0.65 in	Open	#30	—	**32ML19**	500
		0.501 in to 0.625 in	0.775 in	Open	#30	—	**32MK66**	500
3⁄16 in	0.375 in	0.626 in to 0.750 in	0.925 in	Open	#11	Pop Avdel	**3ZJY7**	250
1⁄4 in	0.530 in	0.080 in to 0.375 in	0.556 in	Open	G	—	**32MR67**	100
	0.475 in to 0.525 in	0.188 in to 0.250 in	0.5 in	Open	F	—	**32MK84**	100
		0.188 in to 0.250 in	0.5 in	Open	F	—	**32ML37**	100
	0.500 in	0.251 in to 0.375 in	0.6 in	Open	F	Pop Avdel	**3ZKE5**	100
	0.475 in to 0.525 in	0.313 in to 0.375 in	0.625 in	Open	F	—	**32ML38**	100
	0.530 in	0.350 in to 0.625 in	0.806 in	Open	G	—	**32MR68**	100
	0.475 in to 0.525 in	0.501 in to 0.625 in	0.875 in	Open	F	—	**32ML40**	100
		0.626 in to 0.750 in	1.0 in	Open	F	—	**32ML41**	100
	0.500 in	0.876 in to 1.000 in	1.225 in	Open	F	Pop Avdel	**3ZKL8**	100



POP Avdel

Blind Rivet Backup Washers

Provide extra support when fastening soft materials, and compensate for oversize holes where access to both sides of the work is possible.

Inside Dia.	Outside Dia.	Brand	Item No.	Pkg. Qty.
Round				
Steel				
1/8"	3/8"	Pop Avdel	**3ZKG4**	500
	3/8"	—	**5NNT6**	500
3/16"	3/8"	Pop Avdel	**3ZKG5**	500
	1/2"	—	**5NNT7**	500
1/4"	1/2"	—	**5NNT8**	100
Aluminum				
1/8"	3/8"	Pop Avdel	**3ZJP6**	500
	3/8"	—	**5NNT9**	500
5/32"	7/16"	—	**5NNU0**	500
3/16"	1/2"	—	**5NNU1**	500
	3/8"	Pop Avdel	**3ZJP7**	500
1/4"	1/2"	—	**5NNU2**	100
Square				
Steel				
3/32"	1/2"	—	**5NNT3**	500
1/8"	1/2"	—	**5NNT4**	500
3/16"	1/2"	—	**5NNT5**	500

26W548

Battery-Powered Rivet Tool

Lightweight, ergonomic tool sets rivets of all materials where compressed air is not available, indoors or out. No need for an air hose. 14.4V lithium-ion battery charges in less than 1 hr. with included charger. Attached collector bottle keeps spent mandrels until ready for disposal.

Application	Item No.
Battery Powered 0	
Sets 3/32, 1/8, 5/32, 3/16 rivets	**26W548**
Accessories	
Clamping Jaws, Forged Steel	**26W555**
Nosepiece, Steel, 3/32 in	**26W551**
Nosepiece, Steel, 1/8 in	**26W552**
Nosepiece, Steel, 5/32 in	**26W553**
Nosepiece, Steel, 3/16 in	**26W554**
Battery, 1.5A/hr.	**26W549**
Battery, 3.0Ah	**26W550**
Battery Charger, 240V AC	**26W556**

6NCX3

6NCW9

HUCK

Pneumatic Rivet Guns

Blind Rivet Dia. (in.)	Stroke Length	Tool Wt.	Pulling Force	Mfr. Model No	Item No.
1/4	5/8 in	1.75 lb	3,500 lbf	AK-175A	**6NCX3**
	11/16 in	5.75 lb	5,290 lbf	2025	**6NCX2**
	3/4 in	5.1 lb	3,889 lbf	202	**6NCW9**
	7/8 in	6.0 lb	3,993 lbf	2024	**6NCX1**
3/8	7/8 in	12.3 lb	9,986 lbf	256	**6NCX0**

Rivet Nuts

Once installed, nuts provide permanent, captive threads that won't loosen when vibrated, or rotate when attached to the mating material. Large-flanged head allows increased push-out strength and extends above the material to provide built-in spacer.

Nut Type	Grip Range	Flange Dia.	Body Dia.	Drill Size	Material	Item No.	Pkg. Qty.
6-32 Thread Size							
Flanged	0.010 in to 0.075 in	0.325 in	0.189 in	#12	Steel Zinc	**5NNK3**	100
	0.010 in to 0.075 in	0.325 in	0.189 in	#12	Aluminum Plain	**5NNK4**	100
Flush	0.020 in to 0.080 in	0.295 in	0.249 in	1/4 in	Steel Zinc	**5NNH9**	50
	0.020 in to 0.080 in	0.295 in	0.249 in	1/4 in	Aluminum Plain	**5NNH8**	100
Hex	0.020 in to 0.080 in	0.375 in	0.249 in	1/4 in	Steel Zinc Yellow	**32FY36**	100
	0.080 in to 0.130 in	0.375 in	0.249 in	1/4 in	Steel Zinc Yellow	**32FY37**	50
Knurled Flanged	0.020 in to 0.080 in	0.392 in	0.264 in	17/64 in	Steel Zinc	**5NNL1**	100
	0.020 in to 0.080 in	0.392 in	0.264 in	17/64 in	Aluminum Plain	**5NNL7**	100
	0.080 in to 0.130 in	0.392 in	0.264 in	17/64 in	Aluminum Plain	**5NNR3**	50
	0.080 in to 0.130 in	0.392 in	0.264 in	17/64 in	Steel Zinc	**5NNP6**	50
	0.020 in to 0.080 in	0.31 in	0.265 in	H	Steel Zinc Yellow	**32FY50**	100
	0.080 in to 0.130 in	0.31 in	0.265 in	H	Steel Zinc Yellow	**32FY51**	50
Swaged	0.030 in to 1.00 in	0.24 in	0.2185 in	7/32 in to #1	Steel Clear Cadmium	**32FY64**	100
8-32 Thread Size							
Flanged	0.010 in to 0.075 in	0.357 in	0.221 in	#2	Steel Zinc	**5NNK5**	100
	0.010 in to 0.075 in	0.357 in	0.221 in	#2	Aluminum Plain	**5NNK6**	100
	0.075 in to 0.120 in	0.357 in	0.221 in	#2	Aluminum Plain	**5NNH1**	50
	0.075 in to 0.120 in	0.357 in	0.221 in	#2	Steel Zinc	**5NNG7**	50
Floating Thread	0.020 in to 0.100 in	0.555 in	0.431 in	7/16 in	Steel Clear Trivalent	**32FX20**	5
	0.027 in to 0.130 in	0.5 in	0.39 in	25/64 in	Steel Clear Trivalent	**32FX25**	10
Flush	0.020 in to 0.080 in	0.295 in	0.249 in	1/4 in	Aluminum Plain	**5NNK7**	100
	0.019 in to 0.079 in	0.287 in	0.249 in	1/4 in	Steel Zinc	**5NNJ0**	50
Hex	0.020 in to 0.080 in	0.375 in	0.249 in	1/4 in	Steel Zinc Yellow	**32FY38**	100
	0.080 in to 0.130 in	0.375 in	0.249 in	1/4 in	Steel Zinc Yellow	**32FY39**	50
Knurled Flanged	0.020 in to 0.080 in	0.392 in	0.264 in	17/64 in	Steel Zinc	**5NNL2**	100
	0.020 in to 0.080 in	0.392 in	0.264 in	17/64 in	Aluminum Plain	**5NNL8**	100
	0.080 in to 0.130 in	0.392 in	0.264 in	17/64 in	Steel Zinc	**5NNP7**	50
	0.080 in to 0.130 in	0.392 in	0.264 in	17/64 in	Aluminum Plain	**5NNR4**	50
	0.020 in to 0.080 in	0.31 in	0.265 in	H	Steel Zinc Yellow	**32FY52**	100
	0.080 in to 0.130 in	0.31 in	0.265 in	H	Steel Zinc Yellow	**32FY53**	50
Swaged	0.030 in to 1.00 in	0.269 in	0.2495 in	1/4 to 17/64 in	Steel Clear Cadmium	**32FY65**	100
10-24 Thread Size							
Flanged	0.079 in to 0.130 in	0.406 in	0.25 in	1/4 in	Steel Zinc	**5NNG8**	50
	0.010 in to 0.080 in	0.406 in	0.25 in	1/4 in	Steel Zinc	**5NNF5**	100
	0.010 in to 0.080 in	0.406 in	0.25 in	1/4 in	Aluminum Plain	**5NNJ2**	100
	0.080 in to 0.130 in	0.406 in	0.25 in	1/4 in	Aluminum Plain	**5NNJ3**	50
Floating Thread	0.020 in to 0.100 in	0.555 in	0.431 in	7/16 in	Steel Clear Trivalent	**32FX21**	5
Flush	0.020 in to 0.130 in	0.32 in	0.28 in	9/32 in	Steel Zinc	**5NNH5**	50
	0.020 in to 0.130 in	0.32 in	0.28 in	9/32 in	Aluminum Plain	**5NNH4**	100
Hex	0.010 in to 0.085 in	0.359 in	0.223 in	#2	Steel Clear Trivalent	**32FX10**	25
	0.085 in to 0.135 in	0.359 in	0.223 in	#2	Steel Clear Trivalent	**32FX11**	25
	0.020 in to 0.130 in	0.39 in	0.28 in	9/32 in	Steel Zinc Yellow	**32FY40**	100
	0.130 in to 0.225 in	0.39 in	0.28 in	9/32 in	Steel Zinc Yellow	**32FY41**	50
Knurled Flanged	0.079 in to 0.130 in	0.413 in	0.295 in	19/64 in	Steel Zinc	**5NNL3**	100
	0.020 in to 0.130 in	0.417 in	0.295 in	19/64 in	Aluminum Plain	**5NNL9**	100
	0.130 in to 0.225 in	0.417 in	0.295 in	19/64 in	Steel Zinc	**5NNP8**	50
	0.130 in to 0.225 in	0.417 in	0.295 in	19/64 in	Aluminum Plain	**5NNR5**	50
	0.020 in to 0.130 in	0.34 in	0.296 in	19/64 in	Steel Zinc Yellow	**32FY54**	100
	0.130 in to 0.225 in	0.34 in	0.296 in	19/64 in	Steel Zinc Yellow	**32FY55**	50
Swaged	0.030 in to 1.00 in	0.306 in	0.2805 in	9/32 to 19/64 in	Steel Clear Cadmium	**32FY66**	100
10-32 Thread Size							
Flanged	0.079 in to 0.130 in	0.406 in	0.25 in	1/4 in	Steel Zinc	**5NNG9**	50
	0.010 in to 0.080 in	0.406 in	0.25 in	1/4 in	Steel Zinc	**5NNJ4**	100
	0.080 in to 0.130 in	0.406 in	0.25 in	1/4 in	Aluminum Plain	**5NNH2**	50
	0.010 in to 0.080 in	0.406 in	0.25 in	1/4 in	Aluminum Plain	**5NNF6**	100
Floating Thread	0.020 in to 0.100 in	0.555 in	0.431 in	7/16 in	Steel Clear Trivalent	**32FX22**	5
	0.027 in to 0.150 in	0.5 in	0.39 in	25/64 in	Steel Clear Trivalent	**32FX26**	25
Flush	0.020 in to 0.130 in	0.32 in	0.28 in	9/32 in	Steel Zinc	**5NNH7**	50
	0.020 in to 0.130 in	0.32 in	0.28 in	9/32 in	Aluminum Plain	**5NNH6**	100
Hex	0.010 in to 0.085 in	0.359 in	0.223 in	#2	Steel Clear Trivalent	**32FX12**	25
	0.085 in to 0.135 in	0.359 in	0.223 in	#2	Steel Clear Trivalent	**32FX13**	25
	0.020 in to 0.130 in	0.39 in	0.28 in	9/32 in	Steel Zinc Yellow	**32FY42**	100
	0.130 in to 0.225 in	0.39 in	0.28 in	9/32 in	Steel Zinc Yellow	**32FY43**	50
Knurled Flanged	0.130 in to 0.225 in	0.417 in	0.295 in	19/64 in	Aluminum Plain	**5NNR6**	50
	0.020 in to 0.130 in	0.413 in	0.295 in	19/64 in	Steel Zinc	**5NNL4**	100
	0.130 in to 0.225 in	0.417 in	0.295 in	19/64 in	Steel Zinc	**5NNP9**	50
	0.020 in to 0.130 in	0.417 in	0.295 in	19/64 in	Aluminum Plain	**5NNN0**	100
	0.020 in to 0.130 in	0.34 in	0.296 in	19/64 in	Steel Zinc Yellow	**32FY56**	100
	0.130 in to 0.225 in	0.34 in	0.296 in	19/64 in	Steel Zinc Yellow	**32FY57**	50
Slotted Body	0.020 in to 0.175 in	0.51 in	0.329 in	Q	Steel Zinc Yellow	**32FX31**	10
	0.175 in to 0.320 in	0.51 in	0.329 in	Q	Steel Zinc Yellow	**32FX32**	10
Swaged	0.030 in to 1.00 in	0.306 in	0.2805 in	9/32 to 19/64 in	Steel Clear Cadmium	**32FY67**	100
1/4-20 Thread Size							
Flanged	0.140 in to 0.200 in	0.475 in	0.332 in	Q	Steel Zinc	**5NNG4**	40
	0.079 in to 0.138 in	0.475 in	0.332 in	Q	Aluminum Plain	**5NNG5**	40
	0.020 in to 0.080 in	0.475 in	0.332 in	Q	Steel Zinc	**5NNH0**	50
	0.079 in to 0.138 in	0.475 in	0.332 in	Q	Steel Zinc	**5NNG3**	40
	0.020 in to 0.080 in	0.475 in	0.332 in	Q	Aluminum Plain	**5NNH3**	50
	0.140 in to 0.200 in	0.475 in	0.332 in	Q	Aluminum Plain	**5NNG6**	40
	0.165 in to 0.260 in	0.5 in	0.39 in	25/64 in	Aluminum Plain	**5NNP5**	40
Floating Thread	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Steel Clear Trivalent	**32FX27**	10
Flush	0.030 in to 0.165 in	0.415 in	0.374 in	3/8 in	Steel Zinc	**5NNJ1**	40
	0.030 in to 0.165 in	0.415 in	0.374 in	3/8 in	Aluminum Plain	**5NNL0**	50
Hex	0.020 in to 0.085 in	0.452 in	0.296 in	19/64 in	Steel Clear Trivalent	**32FX14**	25
	0.085 in to 0.145 in	0.452 in	0.296 in	19/64 in	Steel Clear Trivalent	**32FX15**	10
	0.027 in to 0.165 in	0.51 in	0.374 in	3/8 in	Steel Zinc Yellow	**32FY44**	50
	0.165 in to 0.260 in	0.51 in	0.374 in	3/8 in	Steel Zinc Yellow	**32FY45**	40
Knurled Flanged	0.165 in to 0.260 in	0.492 in	0.39 in	25/64 in	Steel Zinc	**5NNP3**	40
	0.027 in to 0.165 in	0.5 in	0.39 in	25/64 in	Steel Zinc	**5NNR9**	50
	0.027 in to 0.165 in	0.5 in	0.39 in	25/64 in	Aluminum Plain	**5NNR7**	50
	0.027 in to 0.165 in	0.455 in	0.39 in	25/64 in	Steel Zinc Yellow	**32FY58**	50
	0.165 in to 0.260 in	0.455 in	0.39 in	25/64 in	Steel Zinc Yellow	**32FY59**	40
Slotted Body	0.020 in to 0.280 in	0.645 in	0.382 in	25/64 in	Steel Zinc Yellow	**32FX33**	10
	0.280 in to 0.50 in	0.645 in	0.382 in	25/64 in	Steel Zinc Yellow	**32FX34**	25
Swaged	0.030 in to 1.00 in	0.4 in	0.3745 in	3/8 to 25/64 in	Steel Clear Cadmium	**32FY68**	50
5/16-18 Thread Size							
Flanged	0.118 in to 0.197 in	0.665 in	0.413 in	Z	Steel Zinc	**5NNK0**	25
	0.030 in to 0.125 in	0.665 in	0.413 in	Z	Steel Zinc	**5NNF8**	25
	0.030 in to 0.125 in	0.665 in	0.413 in	Z	Aluminum Plain	**5NNG0**	25
Flush	0.030 in to 0.165 in	0.56 in	0.499 in	1/2 in	Steel Zinc	**5NNK1**	25
	0.030 in to 0.165 in	0.56 in	0.499 in	1/2 in	Aluminum Plain	**5NNJ9**	25
Hex	0.030 in to 0.105 in	0.577 in	0.368 in	U	Steel Clear Trivalent	**32FX16**	10
	0.105 in to 0.175 in	0.577 in	0.368 in	U	Steel Clear Trivalent	**32FX17**	10
	0.175 in to 0.245 in	0.577 in	0.368 in	U	Steel Clear Trivalent	**32FX18**	10
	0.027 in to 0.150 in	0.655 in	0.499 in	1/2 in	Steel Zinc Yellow	**32FY46**	25
	0.150 in to 0.312 in	0.655 in	0.499 in	1/2 in	Steel Zinc Yellow	**32FY47**	25
Knurled Flanged	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Aluminum Plain	**5NNP0**	25
	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Aluminum Plain	**5NNP1**	25
	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN4**	25
	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN5**	25
	0.027 in to 0.150 in	0.595 in	0.53 in	17/32 in	Steel Zinc Yellow	**32FY60**	25
	0.150 in to 0.312 in	0.595 in	0.53 in	17/32 in	Steel Zinc Yellow	**32FY61**	25
Slotted Body	0.020 in to 0.280 in	0.77 in	0.495 in	1/2 in	Steel Zinc Yellow	**32FX37**	5
Swaged	0.030 in to 1.00 in	0.528 in	0.4995 in	1/2 to 33/64 in	Steel Clear Cadmium	**32FY69**	25
3/8-16 Thread Size							
Flanged	0.115 in to 0.200 in	0.781 in	0.49 in	1/2 in	Steel Zinc	**5NNF7**	20
	0.030 in to 0.115 in	0.781 in	0.49 in	1/2 in	Steel Zinc	**5NNF9**	25
	0.030 in to 0.115 in	0.781 in	0.49 in	1/2 in	Aluminum Plain	**5NNG2**	25
	0.115 in to 0.200 in	0.781 in	0.49 in	1/2 in	Aluminum Plain	**5NNJ6**	20
Flush	0.030 in to 0.165 in	0.56 in	0.499 in	1/2 in	Steel Zinc	**5NNK8**	20
	0.030 in to 0.165 in	0.56 in	0.499 in	1/2 in	Aluminum Plain	**5NNJ5**	25
Hex	0.104 in to 0.239 in	0.671 in	0.437 in	7/16 in	Steel Clear Trivalent	**32FX19**	10
	0.027 in to 0.150 in	0.655 in	0.499 in	1/2 in	Steel Zinc Yellow	**32FY48**	25
	0.150 in to 0.312 in	0.655 in	0.499 in	1/2 in	Steel Zinc Yellow	**32FY49**	20
Knurled Flanged	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Aluminum Plain	**5NNP2**	25
	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN1**	20
	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Aluminum —	**5NNN3**	20
	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN6**	25
	0.027 in to 0.150 in	0.595 in	0.53 in	17/32 in	Steel Zinc Yellow	**32FY62**	25
	0.150 in to 0.312 in	0.595 in	0.53 in	17/32 in	Steel Zinc Yellow	**32FY63**	20
Swaged	0.030 in to 1.00 in	0.588 in	0.5615 in	9/16 to 37/64 in	Steel Clear Cadmium	**32FY70**	25
M4x0.70 Thread Size							
Floating Thread	0.50 in to 2.50 in	14.1 mm	10.95 in	7/16 in	Steel Clear Trivalent	**32FX23**	5
	0.70 in to 3.30 in	12.7 mm	9.91 in	X	Steel Clear Trivalent	**32FX28**	10
Flush	0.019 in to 0.079 in	0.287 in	0.249 in	1/4 in	Steel Zinc	**5NNJ7**	50
Knurled Flanged	0.019 in to 0.079 in	0.39 in	0.26 in	17/64 in	Steel Zinc	**5NNL5**	100
	0.080 in to 0.130 in	0.392 in	0.264 in	17/64 in	Steel Zinc	**5NNR0**	50
M5x0.80 Thread Size							
Floating Thread	0.50 in to 2.50 in	14.1 mm	10.95 in	7/16 in	Steel Clear Trivalent	**32FX24**	5
	0.70 in to 3.30 in	12.7 mm	9.91 in	X	Steel Clear Trivalent	**32FX29**	10
Flush	0.020 in to 0.130 in	0.315 in	0.28 in	9/32 in	Steel Zinc	**5NNJ8**	50
Knurled Flanged	0.019 in to 0.130 in	0.413 in	0.29 in	19/64 in	Steel Zinc	**5NNL6**	100
	0.130 in to 0.225 in	0.417 in	0.295 in	19/64 in	Steel Zinc	**5NNR1**	50
M6x1.0 Thread Size							
Floating Thread	0.70 in to 3.80 in	17.4 mm	13.46 in	17/32 in	Steel Clear Trivalent	**32FX30**	10
Flush	0.030 in to 0.165 in	0.413 in	0.374 in	3/8 in	Steel Zinc	**5NNK2**	40
Knurled Flanged	0.027 in to 0.165 in	0.5 in	0.39 in	25/64 in	Steel Zinc	**5NNR2**	50
	0.027 in to 0.165 in	0.5 in	0.39 in	25/64 in	Aluminum Plain	**5NNR8**	50
	0.165 in to 0.260 in	0.5 in	0.39 in	25/64 in	Steel Zinc	**5NNP4**	40
Slotted Body	0.50 mm to 7.10 mm	16.38 mm	9.7 mm	X	Steel Zinc Yellow	**32FX35**	10
M8x1.25 Thread Size							
Flush	0.040 in to 0.200 in	0.56 in	0.499 in	1/2 in	Steel Zinc	**5NNK9**	25
Knurled Flanged	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN7**	25
	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN8**	25
Slotted Body	0.50 mm to 7.10 mm	19.65 mm	12.57 mm	1/2 in	Steel Zinc Yellow	**32FX36**	5
M10x1.50 Thread Size							
Knurled Flanged	0.150 in to 0.312 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN2**	20
	0.027 in to 0.150 in	0.685 in	0.53 in	17/32 in	Steel Zinc	**5NNN9**	25

Rivet Nut Tools—Pneumatic and Manual

Note: Additional head sets are available at Grainger.com®.

Description	Item No.
Hydro-Pneumatic Flex-5 Tools	
FLEX-5P	**32FX38**
FLEX-5S	**32FX39**
Rivet Nut Pneumatic Spin Tool	
SSG-801 Pistol Style Series	**32FX73**
SSG-802 Pistol Style Series	**32FX74**
SSG-803 Pistol Style Series	**32FX75**
SSG-808 Pistol Style Series	**32FX76**

Description	Item No.
Rivet Nut Hand Tools	
DLHT-I Heavy Duty Inch Tool	**32FX97**
DLHT-M Heavy Duty Metric Tool	**32FX98**
DRHT-I Ratchet Style Inch Tool	**32FX99**
DRHT-M Ratchet Style Metric Tool	**32FX95**
Hand Tool 6-32 Size	**32FY21**
Hand Tool 8-32 Size	**32FY22**
Hand Tool 10-32 Size	**32FY32**
Hand Tool 1/4-20 Size	**32FY33**
Hand Tool M3 Size	**32FY27**

Description	Item No.
Hand Tool M4 Size	**32FY28**
Hand Tool M5 Size	**32FY29**
Hand Tool M5 Size	**32FY34**
Hand Tool M6 Size	**32FY35**
Hand Tool M10 Size	**32FY26**
Hand Tool 10-32 Size	**32FY20**
Hand Tool 1/4-20 Size	**32FY23**
Hand Tool 5/16-18 Size	**32FY24**
Hand Tool 3/8-16 Size	**32FY25**
Hand Tool M6 Size	**32FY30**
Hand Tool M8 Size	**32FY31**

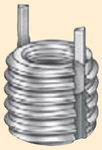
Threaded Inserts Information

Helical Wire Thread Insert
Converts threads, repairs stripped threads, or creates long-lasting threads in multiple materials

Knife Thread Insert
Provides sturdy machine threads in hardwood

Hex Drive Thread Insert
Provides sturdy machine threads in soft woods

Key Locking Thread Insert
Use to convert or repair threads with a positive mechanical lock that prevents spinning



Self-Locking Thread Insert
A locking adhesive on the external threads locks the insert in to place

Press Insert
Provides sturdy machine threads in plastic materials

Type	Material	No. of Pieces	Includes	Brand	Item No.
Thread Repair Kit					
Heavy Wall	18-8 Stainless Steel	33	(10) Each: M8x1.25, M10x1.5, (8) Each: M12x1.75, (5) Each: M16x2.0, Molded Plastic Case	E-Z Lok	**4ZE92**
		46	(10) Each: 10-24, ¼"-20, 5⁄16"-18, ⅜"-16, (6) Each: ½"-13, Molded Plastic Case	E-Z Lok	**4ZE84**
		46	(10) Each: 10-32, ¼"-28, 5⁄16"-24, ⅜"-24, (6) Each: ½"-20, Molded Plastic Case	E-Z Lok	**4ZE87**
		50	(10) Each: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, Molded Plastic Case	E-Z Lok	**4ZE90**
		—	(10) Each: (⅜"-16) M6x1, (½"-13) M8x1.25, (9⁄16"-12) M10x1.5, (6) Each: (¾"-10) M12x1.75, Molded Plastic Case	E-Z Lok	**4ZE95**
Free Running	304 Stainless Steel	54	12 Each ¼"-20x0.375, 5⁄16"-18x0.469, ⅜"-16x0.562, 6 Each 7⁄16"-14x0.656, ½"-13x0.750, ⅝"-11x0.938, and 6 Each of High Speed Steel Taps, Drills and installation tools.	Heli-Coil	**4CZD5**
		60	(12) Each: 10-32x0.285 in, ¼"-28x0.375 in, 5⁄16"-24x0.469 in, ⅜"-24x0.562 in, (6) Each: 7⁄16"-20x0.656 in, ½"-20x0.750 in, High Speed Steel Taps, Drills Installation Tools	Heli-Coil	**4CZD6**
Heavy Wall	Carbon Steel	22	(7) Each: ⅝"-11, ¾"-10, (6) Each: ½"-13, (2) Each: 1"-8, Molded Plastic Case	E-Z Lok	**4ZE85**
		22	(7) Each: ⅝"-18, ¾"-16, (6) Each: ½"-20, (2) Each: 1"-14, Molded Plastic Case	E-Z Lok	**4ZE88**
		33	(10) Each: M8x1.25, M10x1.5, (8) Each: M12x1.75, (5) Each: M16x2.0, Molded Plastic Case	E-Z Lok	**4ZE91**
		46	(10) Each: 10-24, ¼"-20, 5⁄16"-18, ⅜"-16, (6) Each: ½"-13, Molded Plastic Case	E-Z Lok	**4ZE83**
		46	(10) Each: 10-32, ¼"-28, 5⁄16"-24, ⅜"-24, (6) Each: ½"-20, Molded Plastic Case	E-Z Lok	**4ZE86**
		46	(10) (10-24) M10-1.5, (10) (¼"-20) M12-1.75, (10) (5⁄16"-18) M12"-1.75, (10) (⅜"-16) M16-2.0, (6) (½"-13) M16-2.0, Molded Plastic Case	E-Z Lok	**4ZE93**
		50	(10) Each: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, Molded Plastic Case	E-Z Lok	**4ZE89**
		—	(10) Each: (⅜"-16) M6x1, (½"-13) M8x1.25, (9⁄16"-12) M10x1.5, (6) Each: (¾"-10) M12x1.75, Molded Plastic Case	E-Z Lok	**4ZE94**
Helical Total Range Kit UNC and UNF					
Standard	Stainless Steel	4	Inserts (12) ea UNF, UNC ¼, (10) ea UNC, UNF 5⁄16, ⅜, (6) ea UNC, UNF 7⁄16, ½, (4) ea UNC, UNF ⅝, ¾, ⅞, Four Drawer Metal Cabinet	—	**30PH37**
Lockable		4		—	**30PH38**
Helical Total Range Kit All Metric					
Standard	Stainless Steel	4	Inserts (12) ea M5, M6, (10) ea M8x1, M8x1.25, M10x1.25, M10x1.5 (6) ea M11x1, M12x1.5, M12x1.75, (5) ea M14x2, M14x1.5, M16x2, M16x1.5, M18x2.5, M18x1.5, Four Drawer Metal Cabinet	—	**30PH39**
Lockable		4		—	**30PH40**

E-Z LOK
HeliCoil®

Thread Repair Assortment Kits

4ZE83

Type	Material	No. of Pieces	Includes	Brand	Item No.
Helical Thread Repair Assortment					
Tanged	18-8 Stainless Steel	—	Inserts (36) Each: #10, ¼ in, 5⁄16 in, (18) Each: ⅜ in, 7⁄16 in, ½ in, (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	—	**5WU72**
		—	Inserts (36) Each: ¼ in, 5⁄16 in, (18) Each: ⅜ in, 7⁄16 in, ½ in, (6) Each: ⅝ in, (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	—	**5WU70**
		—	Inserts (36) Each: M5x0.8mm, M6x1mm, M8x1.25mm, (18) Each: M10x1.5mm, (1) Each: Tap, Installation Tool, Drill, Molded Plastic Case	—	**5WU74**
Free Running, Tanged	304 Stainless Steel	95	Inserts (25) Each: ¼"-20, 5⁄16"-18, ⅜"-16, (10) Each: 7⁄16"-14, ½"-13, (1) Each: HSS Taps, Drill Bits, Installation Tools	—	**5UUY1**
		95	Inserts (25) Each: ¼"-28, 5⁄16"-24, ⅜"-24, (10) Each: 7⁄16"-20, ½"-20, (1) Each: HSS Taps, Drill Bits, Installation Tools	—	**5UUY2**
		110	Inserts (25) Each: M5x0.8, M6x1.0, M8x1.25, M10x1.5, (10) Each: M12x1.75, (1) Each: HSS Taps, Drill Bits, Installation Tools	—	**5UUY3**
Helical Range Kit UNC,UNF, and Metric					
Standard	Stainless Steel	4	Inserts (12) ea UNF, UNC ¼, (10) ea UNC, UNF 5⁄16, ⅜, (6) ea UNC, UNF 7⁄16, ½, (12) ea M5, M6, (10) ea M8x1, M8x1.25, M10x1.25, M10x1.5 (6) ea M11x1, M12x1.5, M12x1.75, Four Drawer Metal Cabinet	—	**30PH35**
Lockable		4		—	**30PH36**

Thread Repair Kits, Tools, and Refills

Repair tools adjust to fit all thread types and multiple sizes.

Size	Includes	Item No.
Repair Kit		
External 5⁄32 in to 1 ½ in	Nes1A, Nes2	**6URT1**
External 5⁄32 in to 6 in	Nes1A, Nes2, Nes3	**6URP0**
Internal 5⁄16 in to 13⁄16 in	Nes21, Nes22, Nes23	**6URN4**
Internal 5⁄16 in to 1 ¼ in	Nes21, Nes22, Nes23, Nes24	**6URN5**
Internal ⅞ in to 2 ⅝ in	Nes24, Nes25	**6URN9**
External 5⁄32 in to ¾ in, Internal 5⁄16 in to ⅝ in	Nes1A, Nes21, Nes22	**6URN6**
External 5⁄32 in to ¾ in, Internal 5⁄16 in to 13⁄16 in	Nes1A, Nes21, Nes22, Nes23	**6URN7**
External 5⁄32 in to 1 ½ in, Internal 5⁄16 in to 1 ¼ in	Nes1A, Nes2, Nes21, Nes22, Nes23, Nes24	**6URN8**

Description	Mfr. Model	Item No.
Repair Tool		
External 5⁄32 in to ½ in	NES06040	**6URN2**
External 5⁄32 in to ¾ in	NES1A	**6URT2**
External 11⁄16 in to 1½ in	NES2	**6URT3**
External 1⅜ in to 6 in	NES3	**6URT4**
Internal 5⁄16 in to 7⁄16 in	NES21	**6URP2**
Internal ½ in to ⅝ in	NES22	**6URP4**
Internal 11⁄16 in to 13⁄16 in	NES23	**6URP6**
Internal ⅞ in to 1¼ in	NES24	**6URP8**
Internal 1¼ in to 2⅛ in	NES25	**6URR0**
Internal 1¼ in to 2⅝ in	NES26	**6URR1**
Internal 2¾ to 3 3⁄16 in	NES27	**38C905**
Internal 3¼ to 3¾ in	NES28	**38C906**
Internal 3¾ to 4¼ in	NES29	**38C907**

Description	Mfr. Model	Item No.
Accessories		
Keyway Skip Accessory Tool		
For Use With Large External Thread Repair Tool 6URT4	NES03101	**6URR2**
Steel Replacement Blade		
For Use With External Thread Repair Tool 6URT3	NESRK2	**6URT6**
For Use With External Thread Repair Tool 6URT4	NESRK3	**6URT7**
For Use With Thread Repair Tool 6URN2	NES060406	**6URN3**
For Use With Internal Thread Repair Tool 6URP6	NESRK23	**6URR5**
For Use With Internal Thread Repair Tool 6URP8	NESRK24	**6URR6**
For Use With Internal Thread Repair Tool 6URR0	NESRK25	**6URR7**

6URT1

Prewinder Type II Thread Insert Tools

Used for inserts up to ½" diameter or M12 for metric. For small production runs. Removable handle allows hex shank to adjust. Use with screw gun. Install free-running and screw-locking helical inserts.

5XAL7
3HLW2
4CZP4

Use With Internal Thread Size	Brand	Item No.
2-56	—	5XAL7
M2.5 x 0.45	Recoil	3HLZ2
	Heli-Coil	4CZU1
M3 x 0.5	Heli-Coil	4CZU4
	—	5UUG5
M4 x 0.7	Recoil	3HLY5
	Heli-Coil	4CZJ9
4-40	Recoil	3HLW2
	Heli-Coil	4CZP4
M5 x 0.8	Recoil	3HLY6
	Heli-Coil	4CZK2
	—	5UUG7
M6 x 1	Recoil	3HLY7
4-48	Heli-Coil	4CZP5
M6 x 1	Heli-Coil	4CZK1
	—	5UUG8
5-40	Heli-Coil	4CZP9
6-32	Recoil	3HLW4
M8 x 1	Recoil	5DFG0
6-32	Heli-Coil	4CZR2
M8 x 1	Heli-Coil	4CZU5
6-32	—	5XAN1
M8 x 1	—	5UUG9
M8 x 1.25	Heli-Coil	4CZU6
	—	5UUH0
6-40	Recoil	3HLX5
	Heli-Coil	4CZR3
8-32	Recoil	3HLW5
	Heli-Coil	4CZR9
M10 x 1	Heli-Coil	4CZT4
8-32	—	5XAN2
M10 x 1.25	Recoil	5DFG1
	—	5UUH2
M10 x 1.5	Heli-Coil	4CZK3
	—	5UUH3
8-36	Recoil	3HLX6
	Heli-Coil	4CZT1
10-24	Recoil	3HLW6
	Heli-Coil	4CZK8
M12 x 1.25	Recoil	5DFG4
	Heli-Coil	4CZT6
	—	5UUH4
M12 x 1.5	Recoil	5DFG2
M12 x 1.75	Recoil	3HLZ1
	Heli-Coil	4CZK4
	—	5UUH6
10-32	Recoil	3HLX7
	Heli-Coil	4CZL1
	—	5XAR0
12-24	Heli-Coil	4CZN2
¼"-20	Recoil	3HLW8
	—	5XAN5
¼"-28	Recoil	3HLX8
	Heli-Coil	4CZK7
	—	5XAR1
5⁄16"-18	Recoil	3HLW9
	—	5XAN6
5⁄16"-24	Recoil	3HLX9
	—	5UUF6
⅜"-16	Recoil	3HLX1
	—	5XAN7
⅜"-24	Recoil	3HLY1
	Heli-Coil	4CZP1
	—	5UUF7
7⁄16"-14	Recoil	3HLX2
	Heli-Coil	4CZR4
7⁄16"-20	Heli-Coil	4CZR5
	—	5UUF8
½"-13	Recoil	3HLX3
	—	5XAN9
½"-20	Recoil	3HLY3
	Heli-Coil	4CZK5
	—	5UUF9
⅝"-18	—	5UUG1

Type AM

Type I Mandrel

Type AM Mandrel

Thread Insert Tools

A mandrel is wound into the insert and then screwed into the hole. Install free-running and screw-locking helical inserts.

Use With Internal Thread Size	Brand	Item No.
Insert Installation Tool		
Non-Captive Prewinder Type AM		
10-32	Heli-Coil	4EYE5
¼"-28	Heli-Coil	4EYE3
5⁄16"-24	Heli-Coil	4EYF4
⅜"-24	Heli-Coil	4EYF1
7⁄16"-20	Heli-Coil	4EYF9
½"-20	Heli-Coil	4EYE1
9⁄16"-18	Heli-Coil	4EYG3
¾"-16	Heli-Coil	4EYE8
M4 x 0.7	Heli-Coil	4EYD4
M5 x 0.8	Heli-Coil	4EYD5
M6 x 1	Heli-Coil	4EYD6
Non-Captive Prewinder Type IV		
1 ¼"-12	Heli-Coil	4CZL5
1 ⅛"-12	Heli-Coil	4CZL7
9⁄16"-18	Heli-Coil	4CZT3
⅝"-18	Heli-Coil	4CZP8
¾"-16	Heli-Coil	4CZN9
⅞"-14	Heli-Coil	4CZR6
1"-12	Heli-Coil	4CZL9
1"-14	Heli-Coil	4CZN1
M16 x 2	Heli-Coil	4CZT9
M20 x 2.5	Heli-Coil	4CZU2
M24 x 3	Heli-Coil	4CZU3
Type III		
1 ¼"-7	—	5XAP5
9⁄16"-12	—	5XAP0
⅝"-11	—	5XAP1
¾"-10	—	5XAP2
¾"-16	—	5UUG2
⅞"-9	—	5XAP3
⅞"-14	—	5UUG3
1"-8	—	5XAP4
M14 x 2	—	5UUH7
M20 x 2.5	—	5UUH9
M24 x 3	—	5UUJ0
Threaded Mandrel Tool		
Type AM		
4-40	Heli-Coil	4EYF2
6-32	Heli-Coil	4EYF7
8-32	Heli-Coil	4EYG1
10-24	Heli-Coil	4EYE4
12-24	Heli-Coil	4EYE6
¼"-20	Heli-Coil	4EYE2
5⁄16"-18	Heli-Coil	4EYF3
⅜"-16	Heli-Coil	4EYE9
7⁄16"-14	Heli-Coil	4EYF8
½"-13	Heli-Coil	4EYD9
9⁄16"-12	Heli-Coil	4EYG2
⅝"-11	Heli-Coil	4EYF5
¾"-10	Heli-Coil	4EYE7
M8 x 1.25	Heli-Coil	4EYD8
M10 x 1.5	Heli-Coil	4EYC5
M12 x 1.75	Heli-Coil	4EYC8
M14 x 2	Heli-Coil	4EYC9
M16 x 2	Heli-Coil	4EYD1
M18 x 2.5	Heli-Coil	4EYD2
M20 x 2.5	Heli-Coil	4EYD3
Type I		
2-56	Heli-Coil	4CZN6
Type III		
1 ½"-6	Heli-Coil	4CZL4
1 ¼"-7	Heli-Coil	4CZL6
1 ⅛"-7	Heli-Coil	4CZL8
1 ⅜"-6	Heli-Coil	4CZN4
9⁄16"-12	Heli-Coil	4CZT2
⅝"-11	Heli-Coil	4CZP7
¾"-10	Heli-Coil	4CZN8
⅞"-9	Heli-Coil	4CZR7
1"-8	Heli-Coil	4CZN5

30PE79

HeliCoil Thread Repair Kits

- 304 Stainless steel

Contain inserts, high-speed screw thread insert (STI) plug tap, and installation tool.

Size	Length	No. of Pieces	Item No.
With Drill Bit			
Approved Vendor			
2-56	0.129 in	20	5UUK4
3-48	0.149 in	20	5UUK5
3-56	0.149 in	20	5UUN9
4-40	0.168 in	20	5UUK6
5-40	0.188 in	20	5UUK7
6-32	0.207 in	20	5UUK8
6-40	0.207 in	20	5UUP1
8-32	0.246 in	20	5UUK9
8-36	0.246 in	20	5UUP2
10-24	0.285 in	20	5UUL0
10-32	0.285 in	20	5UUP3
12-24	0.324 in	20	5UUL1
¼"-20	0.375 in	20	5UUL2
¼"-28	0.375 in	20	5UUP4
5⁄16"-18	0.469 in	20	5UUL3
5⁄16"-24	0.469 in	20	5UUP5
⅜"-16	0.563 in	15	5UUL4
⅜"-24	0.563 in	15	5UUP6
7⁄16"-14	0.656 in	10	5UUL5
7⁄16"-20	0.656 in	10	5UUP7
½"-13	0.75 in	10	5UUL6
M2.5 x 0.45	3.75 mm	20	5UUT2
M3 x 0.5	4.5 mm	20	5UUT3
M4 x 0.7	6 mm	20	5UUT4
M5 x 0.8	7.5 mm	20	5UUT5
M6 x 1.0	9 mm	20	5UUT6
M8 x 1.0	12 mm	20	5UUT7
M8 x 1.25	12 mm	20	5UUT8
M10 x 1.0	15 mm	15	5UUT9
M10 x 1.25	15 mm	15	5UUU0
M10 x 1.5	15 mm	15	5UUU1
M12 x 1.25	18 mm	10	5UUU2
M12 x 1.5	18 mm	10	5UUU3
M12 x 1.75	18 mm	10	5UUU4
Heli-Coil			
1 ½"-12	2.25 in	4	4DCP4
1 ¼"-12	1.875 in	4	4DCP8
1 ¼"-7	1.875 in	4	4DCR1
1 ⅛"-12	1.688 in	5	4DCR3
1 ⅛"-7	1.688 in	5	4DCR5
4-40	(12) 0.112/0.168/0.224 in	36	4DCF9
5-40	(12) 0.125/0.188/0.250 in	36	4DCH1
6-32	(12) 0.138/0.207/0.276 in	36	4DCH3
6-40	(12) 0.138/0.207/0.276 in	36	4DCH5
8-32	(12) 0.164/0.246/0.328 in	36	4DCJ2
8-36	(12) 0.164/0.246/0.328 in	36	4DCJ4
10-24	(12) 0.190/0.285/0.380 in	36	4DCE1
10-32	(12) 0.190/0.285/0.380 in	36	4DCE4
12-24	(12) 0.216/0.324/0.432 in	36	4DCE7
⅛"-27	0.273 in	12	4EYC1
¼"-18	0.394 in	12	4EYA9
¼"-20	(12) 0.250/0.375/0.500 in	36	4DCD4
¼"-28	(12) 0.250/0.375/0.500 in	36	4DCD7
5⁄16"-18	(12) 0.312/0.468/0.624 in	36	4DCG2
5⁄16"-24	(12) 0.312/0.468/0.624 in	36	4DCG4
⅜"-16	(6) 0.375/0.563/0.750 in	18	4DCF5
⅜"-18	0.407 in	10	4EYC2
⅜"-24	(6) 0.375/0.563/0.750 in	18	4DCF7
7⁄16"-14	(6) 0.438/0.657/0.876 in	18	4DCH7
7⁄16"-20	(6) 0.438/0.657/0.876 in	18	4DCH9
½"-13	(6) 0.500/0.750/1.0 in	18	4DCC7
½"-14	0.534 in	10	4EYA7
½"-20	(6) 0.5/0.75/1.0 in	18	4DCD1
9⁄16"-12	0.844 in	6	4DCJ6
9⁄16"-18	0.844 in	6	4DCJ8
⅝"-11	0.938 in	6	4DCG6
⅝"-18	0.938 in	6	4DCG8
¾"-10	1.125 in	4	4DCF1
¾"-16	1.125 in	4	4DCF3
⅞"-9	1.312 in	6	4EYA5
⅞"-14	1.312 in	6	4DCT4
1"-8	1.5 in	6	4DCT2
1"-12	1.5 in	6	4DCR7
1"-14	1.5 in	6	4DCR9
M3 x 0.5	(12) 3/4.5/6mm	36	4DCN1
M4 x 0.7	(6) 4/6/8mm	18	4DCN3
M5 x 0.8	(6) 5/7.5/10mm	18	4DCN5
M6 x 1	(6) 6/9/12mm	18	4DCN7
M8 x 1.25	(6) 8/12/16mm	18	4DCN9
M10 x 1	(6) 10/15/20mm	18	4DCK1
M10 x 1.5	(6) 10/15/20mm	18	4DCK3
M11 x 1.5	16.5 mm	6	4DCK5
M12 x 1.25	(6) 12/18/24mm	18	4DCK7
M12 x 1.75	(6) 12/18/24mm	18	4DCK9
M14 x 2	21 mm	12	4DCL2
M16 x 2	24 mm	6	4DCL4
M18 x 2.5	27 mm	6	4DCL6
M20 x 2.5	30 mm	4	4DCL8
Without Drill Bit			
Approved Vendor			
1 ½"-12	2.25 in	5	5UUR7
1 ½"-6	2.25 in	5	5UUN4
1 ½"-8	2.25 in	2	30PE74
1 ¼"-12	1.875 in	5	5UUR6
1 ¼"-8	1.875 in	4	30PE72
1 ¼"-7	1.875 in	5	5UUN3
1 ⅛"-12	1.688 in	5	5UUR5
1 ⅛"-8	1.688 in	4	30PE71
1 ⅛"-7	1.688 in	5	5UUN2
1 ¾"-8	2.625 in	2	30PE76
1 ⅜"-8	2.063 in	4	30PE73
1 ⅝"-8	2.438 in	2	30PE75
1 ⅞"-8	2.813 in	2	30PE77
2 ½"-8	3.75 in	2	30PE82
2 ¼"-8	3.375 in	2	30PE80
2 ⅛"-8	3.188 in	2	30PE79
2 ¾"-8	4.125 in	2	30PE84
2 ⅜"-8	3.563 in	2	30PE81
2 ⅝"-8	3.938 in	2	30PE83
2 ⅞"-8	4.313 in	2	30PE85
3 ½"-8	4.33 in	2	30PE90
3 ¼"-8	4.063 in	2	30PE88
3 ⅛"-8	3.906 in	2	30PE87
3 ⅜"-8	4.219 in	2	30PE89
⅛"-27	0.237 in	10	5UUR8
¼"-18	0.394 in	10	5UUR9
⅜"-18	0.563 in	10	5UUT0
½"-14	0.75 in	10	5UUT1
9⁄16"-12	0.843 in	10	5UUL7
9⁄16"-18	0.843 in	10	5UUP9
⅝"-11	0.938 in	10	5UUL8
⅝"-18	0.938 in	10	5UUR0
¾"-10	1.125 in	5	5UUL9
¾"-16	1.125 in	5	5UUR1
⅞"-9	1.312 in	5	5UUN0
⅞"-14	1.313 in	5	5UUR2
1"-8	1.5 in	4	5UUN1
1"-12	1.5 in	4	5UUR3
1"-14	1.5 in	4	5UUR4
2"-8	3.0 in	2	30PE78
3"-8	4.5 in	2	30PE86
M14 x 1.5	21 mm	10	5UUU5
M14 x 2.0	21 mm	10	5UUU6
M16 x 2.0	24 mm	10	5UUU7
M18 x 2.5	27 mm	5	5UUU8
M20 x 2.5	30 mm	5	5UUU9
M22x1.5	33 mm	4	30PE91
M22x2.0	33 mm	4	30PE92
M22x2.5	33 mm	4	30PE93
M24x1.5	36 mm	4	30PE94
M24x2.0	36 mm	4	30PE95
M24 x 3.0	36 mm	5	5UUV0
M26x1.5	39 mm	4	30PE96
M27x1.5	40.5 mm	4	30PE97
M27x2.0	40.5 mm	4	30PE98
M27x3.0	40.5 mm	4	30PE99
M28x1.5	42 mm	4	30PF01
M30x1.5	45 mm	4	30PF02
M30x2.0	45 mm	4	30PF03
M30x3.5	45 mm	4	30PF04
M33x2.0	49.5 mm	4	30PF05
M33x3.5	49.5 mm	4	30PF06
M34x1.5	51 mm	4	30PF07
M36x1.5	54 mm	4	30PF08
M36x2.0	54 mm	4	30PF09
M36x3.0	54 mm	4	30PF10
M36x4.0	54 mm	4	30PF11
M39x3.0	58.5 mm	4	30PF15
M39x4.0	58.5 mm	4	30PF12
M42x3.0	63 mm	4	30PF16
M42x4.5	63 mm	4	30PF13
M45x4.5	67.5 mm	4	30PF14
M48x3.0	72 mm	2	30PF18
M52x3.0	78 mm	2	30PF19
M54x3.0	81 mm	2	30PF20
M56x4.0	84 mm	2	30PF17
M64x3.0	96 mm	2	30PF22
M64x4.0	96 mm	2	30PF21

Helical Wire Thread Inserts HeliCoil®

Free-running and locking internal designs are different. Nitronic® 60 stainless steel inserts are a lower-cost alternative to cobalt-bearing and high nickel alloy, with better corrosion resistance than Type 304 in most media, better chloride pitting resistance than Type 316, and nearly twice the yield strength of Types 304 and 316. Screw thread insert taps sold separately on page 2141.

Free-Running—Greater in diameter than tapped hole; compress when installed. Inserts evenly distribute load and stress.

Screw Locking—Eliminates backout of installed fastener from stress and vibration. Locking torque is retained over numerous assembly cycles.

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
UNC								
304 Stainless Steel								
2-56	0.086 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4CZZ5**	**4GDC2**
	0.129 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4CZZ6**	**4GDC3**
	0.172 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4CZZ7**	**4GDC4**
	0.086 in	0.119 in	#41	4EYR9	—	10	**5UTX8**	**5WZT1**
	0.129 in	0.119 in	#41	4EYR9	—	10	**5UTX9**	**5WZT2**
4-40	0.112 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAA5**	—
	0.168 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAA6**	**4GDD3**
	0.168 in	0.151 in	#31	4EYT8	Heli-Coil	12	**4EYG5**	—
	0.224 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAA7**	**4GDD4**
	0.112 in	0.159 in	#31	4EYT8	—	10	**5UTY0**	**5WZT3**
	0.168 in	0.159 in	#31	4EYT8	—	10	**5UTY1**	**5WZT4**
	0.224 in	0.159 in	#31	4EYT8	—	10	**5UTY2**	**5WZT5**
5-40	0.188 in	0.166 in	#29	4EYU6	Heli-Coil	12	**4EYG7**	—
	0.125 in	0.173 in	#29	4EYU6	—	10	**5UTY3**	**5WZT6**
	0.188 in	0.173 in	#29	4EYU6	—	10	**5UTY4**	**5WZT7**
	0.25 in	0.173 in	#29	4EYU6	—	10	**5UTY5**	**5WZT8**
6-32	0.138 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAD6**	**4GDE2**
	0.173 in	0.185 in	#26	4EYN1	Heli-Coil	100	—	**4GDE3**
	0.207 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAD7**	**4GDE4**
	0.207 in	0.185 in	#26	4EYN1	Heli-Coil	12	**4EYG8**	—
	0.276 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAD8**	**4GDE5**
	0.138 in	0.193 in	#25	4EYN1	—	10	**5UTY6**	**5WZT9**
	0.207 in	0.193 in	#25	4EYN1	—	10	**5UTY7**	**5WZU0**
	0.276 in	0.193 in	#25	4EYN1	—	10	**5UTY8**	**5WZU1**
8-32	0.164 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV3**	**4GDF3**
	0.246 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV4**	**4GDF4**
	0.246 in	0.212 in	#17	4EYN3	Heli-Coil	12	**4EYG9**	—
	0.328 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV5**	**4GDF5**
	0.164 in	0.22 in	11/64 in	4EYN3	—	10	**5UTY9**	**5WZU2**
	0.246 in	0.22 in	11/64 in	4EYN3	—	10	**5UTZ0**	**5WZU3**
	0.328 in	0.22 in	11/64 in	4EYN3	—	10	**5UTZ1**	**5WZU4**
10-24	0.19 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	**4CZY2**	**4GDG3**
	0.285 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	**4CZY3**	**4GDG4**
	0.285 in	0.251 in	13/64 in	4EYP3	Heli-Coil	12	**4EYH7**	—
	0.38 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	**4CZY4**	**4GDG5**
	0.19 in	0.259 in	13/64 in	4EYP3	—	10	**5UTZ2**	**5WZU5**
	0.285 in	0.259 in	13/64 in	4EYP3	—	10	**5UTZ3**	**5WZU6**
	0.38 in	0.259 in	13/64 in	4EYP3	—	10	**5UTZ4**	**5WZU7**
12-24	0.324 in	0.276 in	#1	4EYR4	Heli-Coil	12	**4EYH9**	—
	0.216 in	0.283 in	15/64 in	4EYR4	—	10	**5UTZ5**	—
	0.324 in	0.283 in	15/64 in	4EYR4	—	10	**5UTZ6**	—
1/4-20	0.25 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZW8**	**4GDH3**
	0.375 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZW9**	**4GDH4**
	0.375 in	0.32 in	H	4EYN9	Heli-Coil	12	**4EYH5**	—
	0.5 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZX1**	**4GDH5**
	0.75 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZX2**	—
	0.25 in	0.33 in	17/64 in	4EYN9	—	10	**5UTZ7**	**5WZU8**
	0.375 in	0.33 in	17/64 in	4EYN9	—	10	**5UTZ8**	**5WZU9**
	0.5 in	0.33 in	17/64 in	4EYN9	—	10	**5UTZ9**	**5WZV0**
5/16-18	0.312 in	0.39 in	Q	4EYU1	Heli-Coil	100	**4DAC6**	**4GDJ4**
	0.469 in	0.39 in	Q	4EYU1	Heli-Coil	100	**4DAC7**	**4GDJ5**
	0.469 in	0.39 in	Q	4EYU1	Heli-Coil	12	**4EYJ3**	—
	0.625 in	0.39 in	Q	4EYU1	Heli-Coil	100	**4DAC8**	**4GDJ6**
	0.312 in	0.4 in	21/64 in	4EYU1	—	10	**5UUA0**	**5WZV1**
	0.468 in	0.4 in	21/64 in	4EYU1	—	10	**5UUA1**	**5WZV2**
	0.625 in	0.4 in	21/64 in	4EYU1	—	10	**5UUA2**	**5WZV3**
3/8-16	0.375 in	0.462 in	X	4EYT4	Heli-Coil	100	**4DAA2**	—
	0.562 in	0.462 in	X	4EYT4	Heli-Coil	100	**4DAA3**	**4GDK4**
	0.562 in	0.462 in	X	4EYT4	Heli-Coil	12	**4EYJ1**	—
	0.75 in	0.462 in	X	4EYT4	Heli-Coil	100	**4DAA4**	—
	0.375 in	0.472 in	25/64 in	4EYT4	—	10	**5UUA3**	**5WZV4**
	0.75 in	0.472 in	25/64 in	4EYT4	—	10	**5UUA5**	**5WZV6**
7/16-14	0.438 in	0.539 in	29/64 in	4EYU7	Heli-Coil	100	**4DAE5**	—
	0.656 in	0.539 in	29/64 in	4EYU7	Heli-Coil	6	**4EYJ5**	—
	0.438 in	0.551 in	29/64 in	4EYU7	—	10	**5UUA6**	—
	0.438 in	0.551 in	29/64 in	4EYU7	—	5	—	**5WZV7**
	0.656 in	0.551 in	29/64 in	4EYU7	—	10	**5UUA7**	—
	0.656 in	0.551 in	29/64 in	4EYU7	—	5	—	**5WZV8**
	0.875 in	0.551 in	29/64 in	4EYU7	—	10	**5UUA8**	—
	0.875 in	0.551 in	29/64 in	4EYU7	—	5	—	**5WZV9**
1/2-13	0.5 in	0.61 in	33/64 in	4EYN5	Heli-Coil	100	**4CZW4**	—
	0.75 in	0.61 in	33/64 in	4EYN5	Heli-Coil	100	**4CZW5**	—
	0.75 in	0.61 in	33/64 in	4EYN5	Heli-Coil	6	**4EYH2**	—
	1 in	0.61 in	33/64 in	4EYN5	Heli-Coil	100	**4CZW3**	—
	0.5 in	0.622 in	33/64 in	4EYN5	—	10	**5UUA9**	—
	0.5 in	0.622 in	33/64 in	4EYN5	—	5	—	**5WZW0**
	0.75 in	0.622 in	33/64 in	4EYN5	—	10	**5UUC0**	—
	0.75 in	0.622 in	33/64 in	4EYN5	—	5	—	**5WZW1**
5/8-11	0.938 in	0.622 in	21/32 in	4EYU3	—	5	**5UUC5**	**5WZW6**
1/2-13	1 in	0.622 in	33/64 in	4EYN5	—	10	**5UUC1**	—
	1 in	0.622 in	33/64 in	4EYN5	—	5	—	**5WZW2**
9/16-12	0.844 in	0.682 in	19/32 in	4EYV3	Heli-Coil	6	**4EYH1**	—
	0.562 in	0.694 in	19/32 in	4EYV3	—	5	**5UUC2**	**5WZW3**
	0.844 in	0.694 in	19/32 in	4EYV3	—	5	**5UUC3**	**5WZW4**
3/8-16	0.562 in	0.742 in	25/64 in	4EYT4	—	10	**5UUA4**	**5WZV5**
5/8-11	0.625 in	0.742 in	21/32 in	4EYU3	—	5	**5UUC4**	**5WZW5**
	0.938 in	0.754 in	21/32 in	4EYU3	Heli-Coil	100	**4DAD4**	—
	0.938 in	0.754 in	21/32 in	4EYU3	Heli-Coil	6	**4EYG6**	—
3/4-10	0.75 in	0.881 in	25/32 in	4EYT1	—	5	**5UUC6**	—
	0.75 in	0.881 in	25/32 in	4EYT1	—	1	—	**5WZW7**
	1.125 in	0.881 in	25/32 in	4EYT1	—	5	**5UUC7**	—
	1.125 in	0.881 in	25/32 in	4EYT1	—	1	—	**5WZW8**
	0.75 in	0.893 in	25/32 in	4EYT1	Heli-Coil	1	—	**4EXF9**
	1.125 in	0.893 in	25/32 in	4EYT1	Heli-Coil	4	**4EYG4**	—
	1.125 in	0.893 in	25/32 in	4EYT1	Heli-Coil	1	—	**4EXF8**
7/8-9	0.875 in	1.022 in	29/32 in	4EYV1	—	1	**5UUC8**	—
	0.875 in	1.022 in	29/32 in	4EYV2	—	1	—	**5WZW9**
	1.313 in	1.022 in	29/32 in	4EYV1	—	1	**5UUC9**	—
	1.313 in	1.022 in	29/32 in	4EYV2	—	1	—	**5WZX0**
	0.875 in	1.037 in	29/32 in	4EYV2	Heli-Coil	1	—	**4EXG2**
	1.312 in	1.037 in	29/32 in	4EYV2	Heli-Coil	1	**4EWT6**	**4EXG1**
1-8	1 in	1.181 in	1 1/32 in	4EYR8	Heli-Coil	1	—	**4EXG3**
	1.5 in	1.181 in	1 1/32 in	4EYR8	Heli-Coil	1	**4EWT2**	**4EXG4**
	1 in	1.196 in	1 1/32 in	4EYR8	—	1	**5UUD0**	**5WZX1**
	1.5 in	1.196 in	1 1/32 in	4EYR8	—	1	**5UUD1**	**5WZX2**
1 1/8-7	1.125 in	1.335 in	1 11/64 in	4EYR1	Heli-Coil	1	—	**4EXG5**
	1.688 in	1.335 in	1 11/64 in	4EYR1	Heli-Coil	1	**4EWR5**	**4EXG6**
	1.125 in	1.355 in	1 5/32 in	4EYR1	—	1	**5UUD2**	**5WZX3**
	1.688 in	1.355 in	1 5/32 in	4EYR1	—	1	**5UUD3**	**5WZX4**
1 1/4-7	1.25 in	1.463 in	1 19/64 in	4EYP8	Heli-Coil	1	—	**4EXG7**
	1.875 in	1.463 in	1 19/64 in	4EYP8	Heli-Coil	1	**4EWR3**	—
	1.25 in	1.483 in	1 9/32 in	4EYP8	—	1	**5UUD4**	**5WZX5**
	1.875 in	1.483 in	1 9/32 in	4EYP8	—	1	**5UUD5**	**5WZX6**
1 3/8-6	2.062 in	1.62 in	1 27/64 in	4EYR6	Heli-Coil	1	**4EWT1**	—
1 1/2-6	2.25 in	1.749 in	1 35/64 in	4EYP6	Heli-Coil	1	**4EWP8**	—
1 1/2-6	1.5 in	1.772 in	1 17/32 in	4EYP6	—	1	**5UUD6**	—
1 1/2 a 6	1.5 in	1.772 in	1 17/32 in	4EYP6	—	1	—	**5WZX7**
1 1/2-6	2.25 in	1.772 in	1 17/32 in	4EYP6	—	1	**5UUD7**	—
1 1/2 a 6	2.25 in	1.772 in	1 17/32 in	4EYP6	—	1	—	**5WZX8**
304 Stainless Steel, Dry Film Lubricant								
2-56	0.086 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4CZZ8**	**4GDC5**
	0.129 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4CZZ9**	**4GDC6**
	0.172 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	**4DAA1**	**4GDC7**
4-40	0.112 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAA8**	**4GDD2**
	0.112 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4GDD5**
	0.168 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAA9**	**4GDD6**
	0.224 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAC1**	**4GDD7**
	0.28 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAC2**	—
	0.336 in	0.151 in	#31	4EYT8	Heli-Coil	100	**4DAC3**	—
6-32	0.138 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAD9**	**4GDE6**
	0.207 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAD5**	**4GDE7**
	0.276 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAE1**	**4GDE8**
	0.345 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAE2**	—
8-32	0.164 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV6**	**4GDF6**
	0.246 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV7**	**4GDF7**
	0.328 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV8**	**4GDF8**
	0.492 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZV9**	—
10-24	0.19 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	**4CZY6**	**4GDG6**
	0.285 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	**4CZY5**	**4GDG7**
	0.38 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	—	**4GDG8**
1/4-20	0.25 in	0.32 in	H	4EYN9	Heli-Coil	100	—	**4GDH6**
	0.375 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZX3**	**4GDH7**
	0.5 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZX4**	**4GDH8**
5/16-18	0.312 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	**4GDJ7**
	0.469 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	**4GDJ8**
	0.625 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	**4GDJ9**
Nitronic 60								
2-56	0.086 in	0.115 in	3/32 in	4EYR9	Heli-Coil	100	—	**4GDC8**
4-40	0.112 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4GDD8**
	0.168 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4GDD9**
	0.224 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4GDE1**
	0.28 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4DAC4**
	0.336 in	0.151 in	#31	4EYT8	Heli-Coil	100	—	**4DAC5**
6-32	0.138 in	0.185 in	#26	4EYN1	Heli-Coil	100	—	**4GDE9**
	0.207 in	0.185 in	#26	4EYN1	Heli-Coil	100	—	**4GDF1**
	0.276 in	0.185 in	#26	4EYN1	Heli-Coil	100	—	**4GDF2**
	0.345 in	0.185 in	#26	4EYN1	Heli-Coil	100	**4DAE3**	—
	0.414 in	0.185 in	#26	4EYN1	Heli-Coil	100	—	**4DAE4**
8-32	0.164 in	0.212 in	#17	4EYN3	Heli-Coil	100	—	**4GDF9**
	0.246 in	0.212 in	#17	4EYN3	Heli-Coil	100	—	**4GDG1**
	0.328 in	0.212 in	#17	4EYN3	Heli-Coil	100	—	**4GDG2**
	0.41 in	0.212 in	#17	4EYN3	Heli-Coil	100	—	**4CZW1**
	0.492 in	0.212 in	#17	4EYN3	Heli-Coil	100	**4CZW2**	—
10-24	0.19 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	—	**4GDG9**
	0.38 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	—	**4GDH2**
	0.385 in	0.251 in	13/64 in	4EYP3	Heli-Coil	100	—	**4GDH1**
1/4-20	0.25 in	0.32 in	H	4EYN9	Heli-Coil	100	—	**4GDH9**
	0.375 in	0.32 in	H	4EYN9	Heli-Coil	100	—	**4GDJ1**
	0.5 in	0.32 in	H	4EYN9	Heli-Coil	100	—	**4GDJ2**
	0.625 in	0.32 in	H	4EYN9	Heli-Coil	100	—	**4CZW6**
	0.75 in	0.32 in	H	4EYN9	Heli-Coil	100	**4CZW7**	**4GDJ3**

** Length is installed length.*

CONTINUED

CONTINUED

Helical Wire Thread Inserts HeliCoil

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS: FREE RUNNING Item No.	INSERTS: SCREW LOCKING Item No.
5/16-18	0.312 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	4GDK1
	0.469 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	4GDK2
	0.625 in	0.39 in	Q	4EYU1	Heli-Coil	100	—	4GDK3
UNF								
304 Stainless Steel								
8-36	0.492 in	0.214 in	#17	4EYN4	Heli-Coil	100	—	4GDL1
	0.246 in	0.224 in	11/64 in	4EYN4	—	10	—	5WZX9
10-32	0.19 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZY7	4GDL2
	0.285 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZY8	4GDL3
	0.285 in	0.246 in	#7	4EYP4	Heli-Coil	12	4EYH8	—
	0.38 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZY9	4GDL4
	0.19 in	0.256 in	13/64 in	4EYP4	—	10	5UUD8	5WZY0
	0.285 in	0.256 in	13/64 in	4EYP4	—	10	5UUD9	5WZY1
	0.38 in	0.256 in	13/64 in	4EYP4	—	10	5UUE0	5WZY2
1/4-28	0.25 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDN5
	0.313 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDN6
	0.375 in	0.316 in	G	4EYP1	Heli-Coil	100	4CZX6	4GDN7
	0.375 in	0.316 in	G	4EYP1	Heli-Coil	100	4CZY1	—
	0.5 in	0.316 in	G	4EYP1	Heli-Coil	100	4CZX7	4GDN8
	0.25 in	0.326 in	17/64 in	4EYP1	—	10	5UUE1	5WZY3
	0.25 in	0.326 in	6.7mm	4EYP1	Heli-Coil	100	4CZX5	—
	0.375 in	0.326 in	17/64 in	4EYP1	—	10	5UUE2	5WZY4
	0.5 in	0.326 in	17/64 in	4EYP1	—	10	5UUE3	5WZY5
5/16-24	0.25 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	4DAD3	—
	0.312 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	4DAC9	4GDP7
	0.469 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	4DAD1	4GDP8
	0.625 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	4DAD2	4GDP9
	0.781 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR1
	0.938 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR2
	0.312 in	0.4 in	21/64 in	4EYU2	—	10	5UUE4	5WZY6
	0.469 in	0.4 in	21/64 in	4EYU2	—	10	5UUE5	5WZY7
	0.625 in	0.4 in	21/64 in	—	—	10	5UUE6	—
	0.625 in	0.4 in	21/64 in	4EYU2	—	10	—	5WZY8
3/8-24	0.562 in	0.458 in	25/64 in	4EYT6	Heli-Coil	12	4EYJ2	—
	0.375 in	0.468 in	25/64 in	4EYT6	—	10	5UUE7	5WZY9
	0.563 in	0.468 in	25/64 in	4EYT6	—	10	5UUE8	5WZZ0
	0.75 in	0.468 in	25/64 in	4EYT6	—	10	5UUE9	5WZZ1
7/16-20	0.656 in	0.537 in	29/64 in	4EYU8	Heli-Coil	6	4EYJ6	—
	0.438 in	0.549 in	29/64 in	4EYU8	—	10	5UUF0	—
	0.438 in	0.549 in	29/64 in	4EYU8	—	5	—	5WZZ2
	0.656 in	0.549 in	29/64 in	4EYU8	—	10	5UUF1	—
	0.656 in	0.549 in	29/64 in	4EYU8	—	5	—	5WZZ3
	0.876 in	0.549 in	29/64 in	4EYU8	—	10	5UUF2	—
	0.876 in	0.549 in	29/64 in	4EYU8	—	5	—	5WZZ4
1/2-20	0.75 in	0.605 in	33/64 in	4EYN7	Heli-Coil	6	4EYH3	—
	0.5 in	0.617 in	33/64 in	4EYN7	—	10	5UUF3	—
	0.5 in	0.617 in	33/64 in	4EYN7	—	5	—	5WZZ5
	0.75 in	0.617 in	33/64 in	4EYN7	—	10	5UUF4	—
	0.75 in	0.617 in	33/64 in	4EYN7	—	5	—	5WZZ6
	1 in	0.617 in	33/64 in	4EYN7	—	10	5UUF5	—
	1 in	0.617 in	33/64 in	4EYN7	—	5	—	5WZZ7
9/16-18	1.125 in	0.679 in	37/64 in	4EYV4	Heli-Coil	6	4EYJ7	—
	0.562 in	0.691 in	37/64 in	4EYV4	—	5	5WZH4	5WZZ8
	0.843 in	0.691 in	37/64 in	4EYV4	—	5	5WZH5	5WZZ9
5/8-18	0.938 in	0.746 in	41/64 in	4EYU5	Heli-Coil	6	4EYJ4	—
	0.625 in	0.758 in	41/64 in	4EYU5	—	5	5WZH6	—
	0.938 in	0.758 in	41/64 in	4EYU5	—	5	5WZH7	5XAA1
3/4-16	0.75 in	0.888 in	49/64 in	4EYT3	Heli-Coil	1	—	4EXK9
	1.125 in	0.888 in	49/64 in	4EYT3	Heli-Coil	1	—	4EXK8
	0.75 in	0.901 in	49/64 in	4EYT3	—	5	5WZH8	—
	0.75 in	0.901 in	49/64 in	4EYT3	—	1	—	5XAA2
	1.125 in	0.901 in	49/64 in	4EYT3	—	5	5WZH9	—
	1.125 in	0.901 in	49/64 in	4EYT3	—	1	—	5XAA3
7/8-14	0.875 in	1.036 in	57/64 in	4EYU9	Heli-Coil	1	—	4EXL2
	1.312 in	1.036 in	57/64 in	4EYU9	Heli-Coil	1	4EWT5	—
	0.875 in	1.051 in	57/64 in	4EYU9	—	1	5WZJ0	5XAA4
	1.313 in	1.051 in	57/64 in	4EYU9	—	1	5WZJ1	5XAA5
1-12	1.5 in	1.0990"	1 1/64 in	4EYR2	Heli-Coil	1	4EWR7	—
	1 in	1.1000"	1 1/64 in	4EYR2	Heli-Coil	1	—	4EXL3
	1.5 in	1.1100'	1 1/64 in	4EYR2	Heli-Coil	1	—	4EXL4
	1 in	1.1200"	1 1/64 in	4EYR2	—	1	5WZJ4	—
	1.5 in	1.1200"	1 1/64 in	4EYR2	—	1	5WZJ5	—
1-14	1.5 in	1.171 in	1 1/64 in	4EYR3	Heli-Coil	1	4EWR8	4EXL6
	1 in	1.199 in	1 1/64 in	4EYR3	—	1	5WZJ2	5XAA6
	1.5 in	1.199 in	1 1/64 in	4EYR3	—	1	5WZJ3	—
1 1/8-12	1.125 in	1.319 in	1 9/64 in	4EYP9	Heli-Coil	100	—	4GDK5
	1.688 in	1.319 in	1 9/64 in	4EYP9	Heli-Coil	1	4EWR4	—
	1.688 in	1.319 in	1 9/64 in	4EYP9	Heli-Coil	100	—	4GDK6
	1.125 in	1.334 in	1 5/32 in	4EYP9	—	1	5WZJ6	—
	1.688 in	1.334 in	1 5/32 in	4EYP9	—	1	5WZJ7	—
1 1/4-12	1.25 in	1.454 in	1 17/64 in	4EYP7	Heli-Coil	100	—	4GDK7
	1.875 in	1.454 in	1 17/64 in	4EYP7	Heli-Coil	1	4EWP9	—
	1.875 in	1.454 in	1 17/64 in	4EYP7	Heli-Coil	100	—	4GDK8
	1.25 in	1.469 in	1 9/32 in	4EYP7	—	1	5WZJ8	5XAC2
	1.875 in	1.469 in	1 9/32 in	4EYP7	—	1	5WZJ9	—
1 1/4-12	1.875 in	1.469 in	1 9/32 in	4EYP7	—	1	—	5XAC3
1 3/8-12	2.062 in	1.593 in	1 25/64 in	4EYR5	Heli-Coil	1	4EWR9	—
1 1/2-12	2.25 in	1.727 in	1 33/64 in	4EYP5	Heli-Coil	1	4EWP4	—
	2.25 in	1.727 in	1 33/64 in	4EYP5	Heli-Coil	100	—	4GDK9
	1.5 in	1.745 in	1 17/32 in	4EYP5	—	1	5WZK0	5XAC4
304 Stainless Steel, Dry Film Lubricant								
10-32	0.19 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZZ1	4GDL5
	0.285 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZZ2	4GDL6
	0.38 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZZ3	4GDL7
	0.57 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZZ4	—
1/4-28	0.187 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDN9
	0.25 in	0.316 in	G	4EYP1	Heli-Coil	100	4CZX8	4GDP1
	0.375 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDP2
	0.5 in	0.316 in	G	4EYP1	Heli-Coil	100	4CZX9	4GDP3

** Length is installed length.*

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS: FREE RUNNING Item No.	INSERTS: SCREW LOCKING Item No.
5/16-24	0.312 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR3
	0.469 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR4
	0.625 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR5
	0.781 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR6
	0.938 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR7
Nitronic 60								
10-32	0.19 in	0.246 in	#7	4EYP4	Heli-Coil	100	—	4GDL8
	0.285 in	0.246 in	#7	4EYP4	Heli-Coil	100	—	4GDN1
	0.38 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZU9	4GDN2
	0.475 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZV1	4GDN3
	0.57 in	0.246 in	#7	4EYP4	Heli-Coil	100	4CZV2	4GDN4
1/4-28	0.25 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDP4
	0.375 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDP5
	0.5 in	0.316 in	G	4EYP1	Heli-Coil	100	—	4GDP6
5/16-24	0.312 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR8
	0.469 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDR9
	0.625 in	0.39 in	21/64 in	4EYU2	Heli-Coil	100	—	4GDT1
NPT								
304 Stainless Steel								
1/8-27	0.273 in	0.499 in	U	—	Heli-Coil	12	4EYH6	—
	0.273 in	0.511 in	3/8 in	4EYP2	—	10	5WZK1	—
1/4-18	0.394 in	0.68 in	33/64 in	4EYN9	—	10	5WZK2	—
3/8-18	0.407 in	0.828 in	21/32 in	4EYT5	—	10	5WZK3	—
1/2-14	0.534 in	1.035 in	13/16 in	4EYN5	—	5	5WZK4	—
ANPT								
1/4-18	0.394 in	0.668 in	31/64 in	—	Heli-Coil	12	4EYH4	—
3/8-18	0.407 in	0.816 in	5/8 in	—	Heli-Coil	5	4EWT4	—
1/2-14	0.534 in	1.02 in	25/32 in	—	Heli-Coil	5	4EWP3	—
3/4-14	0.534 in	1.247 in	63/64 in	—	Heli-Coil	5	4EWT3	—
1-11 1/2	0.661 in	1.558 in	1.250 in	—	Heli-Coil	2	4EWR6	—
Metric Fine								
M8 x 1	8 mm	9.900mm	8.3mm	4EYY6	—	10	—	5XAE0
	12 mm	9.98 mm	8.25mm	4EYY6	Heli-Coil	12	4EYL5	—
	8 mm	10.000mm	8.3mm	4EYY6	—	10	5WZN0	—
	12 mm	10.000mm	8.3mm	4EYY6	—	10	—	5XAE1
	12 mm	10.001mm	8.3mm	4EYY6	—	10	5WZN1	—
	16 mm	10.002mm	8.3mm	4EYY6	—	10	5WZN2	—
	16 mm	11.000mm	8.3mm	4EYY6	—	10	—	5XAE2
M10 x 1	15 mm	12.23 mm	10.25mm	4EYV6	Heli-Coil	12	4EYJ8	—
	10 mm	12.5 mm	10.3mm	4EYV6	—	10	5WZN6	—
	15 mm	12.5 mm	10.3mm	4EYV6	—	10	5WZN7	—
	20 mm	12.5 mm	10.3mm	4EYV6	—	10	5WZN8	—
M10 x 1.25	15 mm	12.5500mm	10.25mm	4EYV7	Heli-Coil	12	4EYJ9	—
	10 mm	12.65 mm	10.3mm	4EYV7	—	10	5WZN9	5XAE6
	15 mm	12.65 mm	10.3mm	4EYV7	—	10	5WZP0	5XAE7
M12 x 1.5	18 mm	14.6 mm	12.25mm	4EYW4	Heli-Coil	6	4EYK3	—
M12 x 1.25	18 mm	14.65 mm	12.25mm	4EYW2	Heli-Coil	6	4EYK2	—
	12 mm	15 mm	12.3mm	4EYW3	—	5	5WZP4	—
	18 mm	15 mm	12.3mm	4EYW3	—	5	5WZP5	—
	18 mm	15 mm	12.3mm	4EYW2	—	5	—	5XAF1
	24 mm	15 mm	12.3mm	4EYW3	—	5	5WZP6	—
M12 x 1.5	18 mm	15.2 mm	12.3mm	4EYW4	—	5	5WZP7	—
M14 x 1.5	21 mm	16.9 mm	14.25mm	4EYW6	Heli-Coil	6	4EYK5	—
	21 mm	17.25 mm	14.3mm	4EYW6	—	5	5WZR1	5XAF5
Metric Coarse								
M2 x 0.4	2 mm	2.6 mm	2.1mm	—	Heli-Coil	100	4DAG5	—
	5 mm	2.6 mm	2.1mm	—	Heli-Coil	100	4DAG7	—
	6 mm	2.6 mm	2.1mm	—	Heli-Coil	100	4DAG9	—
M2.2 x 0.45	4.4 mm	2.9 mm	2.3mm	—	Heli-Coil	100	4DAE9	—
	6.6 mm	2.9 mm	2.3mm	—	Heli-Coil	100	4DAF1	—
M2.5 x 0.45	2.5 mm	3.45 mm	2.55mm	—	Heli-Coil	100	4DAF2	—
	2.5 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU1
	3.8 mm	3.45 mm	2.55mm	—	Heli-Coil	100	4DAF3	—
	3.8 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU2
	5 mm	3.45 mm	2.55mm	—	Heli-Coil	100	4DAF4	—
	5 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU3
	6.3 mm	3.45 mm	2.55mm	—	Heli-Coil	100	4DAF5	—
	7.5 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	—	4GDU4
	7.5 mm	3.45 mm	2.55mm	—	Heli-Coil	100	4DAF6	—
	2.5 mm	3.7 mm	2.6mm	4EYX1	—	10	5WZK5	5XAC5
	3.75 mm	3.7 mm	2.6mm	4EYX1	—	10	5WZK6	5XAC6
	5 mm	3.7 mm	2.6mm	4EYX1	—	10	5WZK7	5XAC7
M3 x 0.5	3 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	4DAH2	4GDV6
	4.5 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	4DAH4	4GDV7
	6 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	4DAH6	4GDV8
	7.5 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	4DAH8	4GDV9
	9 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	4DAJ1	4GDW1
	4.5 mm	4.08 mm	3.15mm	4EYX5	Heli-Coil	12	4EYL1	—
	3 mm	4.35 mm	3.2mm	4EYX5	—	10	5WZK8	5XAC8
	4.5 mm	4.35 mm	3.2mm	4EYX5	—	10	5WZK9	5XAC9
	6 mm	4.35 mm	3.2mm	4EYX5	—	10	5WZL0	5XAD0
M4 x 0.7	4 mm	4.9 mm	4.2mm	4EYX7	—	10	5WZL1	5XAD1
	6 mm	4.9 mm	4.2mm	4EYX7	—	10	5WZL2	5XAD2
	8 mm	4.9 mm	4.2mm	4EYX7	—	10	5WZL3	5XAD3
	4 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAL1	4GDW8
	5 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAP7	—
	6 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAL3	4GDW9
	6 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	12	4EYL2	—
	8 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAL5	4GDX1
	10 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAL7	4GDX2
	12 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	4DAL9	4GDX3
M5 x 0.8	5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	4DAP9	4GDY1
	7.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	4DAR2	4GDY2
	7.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	12	4EYL3	—
	10 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	4DAR4	4GDY3
	12.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	4DAR6	4GDY4
	15 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	4DAR8	4GDY5
	5 mm	6.8 mm	5.2mm	4EYX9	—	10	5WZL4	5XAD4
	7.5 mm	6.8 mm	5.2mm	4EYX9	—	10	5WZL5	5XAD5
	10 mm	6.8 mm	5.2mm	4EYX9	—	10	5WZL6	5XAD6

CONTINUED

CONTINUED

Helical Wire Thread Inserts HeliCoil®

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
M6 x 1	6 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAU6**	**4GDY9**
	9 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAU8**	**4GDZ1**
	12 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAV1**	**4GDZ2**
	15 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAV3**	**4GDZ3**
	18 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAV5**	—
	9 mm	7.68 mm	6.25mm	4EYY2	Heli-Coil	12	**4EYL4**	—
	6 mm	7.95 mm	6.3mm	4EYY2	—	10	**5WZL7**	**5XAD7**
	9 mm	7.95 mm	6.3mm	4EYY2	—	10	**5WZL8**	**5XAD8**
	12 mm	7.95 mm	6.3mm	4EYY2	—	10	**5WZL9**	**5XAD9**
M7 x 1	14 mm	8.925 mm	7.25mm	4EYY4	Heli-Coil	100	**4DAX5**	—
	17.5 mm	8.925 mm	7.25mm	4EYY4	Heli-Coil	100	**4DAX7**	—
M8 x 1.25	8 mm	10.075 mm	8.3mm	4EYY8	Heli-Coil	100	**4DAY1**	—
	12 mm	10.075 mm	8.3mm	4EYY8	Heli-Coil	100	**4DAY4**	—
	20 mm	10.075 mm	8.3mm	4EYY8	Heli-Coil	100	**4DAY7**	—
	24 mm	10.075 mm	8.3mm	4EYY8	Heli-Coil	100	**4DAZ1**	—
	12 mm	10.08 mm	8.3mm	4EYY8	Heli-Coil	12	**4EYL6**	—
	8 mm	10.35 mm	8.3mm	4EYY7	—	10	**5WZN3**	**5XAE3**
	12 mm	10.35 mm	8.3mm	4EYY7	—	10	**5WZN4**	**5XAE4**
	16 mm	10.35 mm	8.3mm	4EYY7	—	10	**5WZN5**	—
M8 x 2.00	16 mm	10.35 mm	8.3mm	4EYY7	—	10	—	**5XAE5**
M10 x 1.5	25 mm	12.225 mm	10.5mm	4EYV8	Heli-Coil	100	—	**4GDT2**
	30 mm	12.225 mm	10.5mm	4EYV8	Heli-Coil	100	—	**4GDT3**
	15 mm	12.23 mm	10.5mm	4EYV8	Heli-Coil	100	**4DAE6**	—
	15 mm	12.23 mm	10.5mm	4EYV8	Heli-Coil	12	**4EYK1**	—
	10 mm	12.5 mm	10.4mm	4EYV8	—	10	**5WZP1**	**5XAE8**
	15 mm	12.5 mm	10.4mm	4EYV8	—	10	**5WZP2**	**5XAE9**
	20 mm	12.5 mm	10.4mm	4EYV8	—	10	**5WZP3**	**5XAF0**
M12 x 1.75	18 mm	14.65 mm	12.5mm	4EYW5	Heli-Coil	100	**4DAE7**	—
	18 mm	14.65 mm	12.5mm	4EYW5	Heli-Coil	6	**4EYK4**	—
	30 mm	14.65 mm	12.5mm	4EYW5	Heli-Coil	100	—	**4GDT4**
	12 mm	15 mm	12.3mm	4EYW5	—	5	**5WZP8**	**5XAF2**
	16 mm	15 mm	12.3mm	4EYW5	—	5	—	**5XAF4**
M12 x 1.5	18 mm	15 mm	12.5mm	4EYW4	—	5	**5WZP9**	—
M12 x 1.75	18 mm	15 mm	12.3mm	4EYW5	—	5	—	**5XAF3**
	24 mm	15 mm	12.3mm	4EYW5	—	5	**5WZR0**	—
M14 x 2	21 mm	17 mm	14.5mm	4EYW7	Heli-Coil	6	**4EYK6**	—
	21 mm	17 mm	14.5mm	4EYW7	Heli-Coil	100	—	**4GDT5**
	28 mm	17 mm	14.5mm	4EYW7	Heli-Coil	100	—	**4GDT6**
	14 mm	17.35 mm	14.5mm	4EYW7	—	5	**5WZR2**	**5XAF6**
M14 x 1.5	21 mm	17.35 mm	14mm	4EYW7	—	5	**5WZR3**	—
M14 x 2	21 mm	17.35 mm	14.5mm	4EYW7	—	5	—	**5XAF7**
M16 x 2	16 mm	19.25 mm	16.5mm	4EYW8	Heli-Coil	100	—	**4GDT7**
	24 mm	19.25 mm	16.5mm	4EYW8	Heli-Coil	100	**4DAE8**	**4GDT8**
	24 mm	19.25 mm	16.5mm	4EYW8	Heli-Coil	6	**4EYK7**	—
	32 mm	19.25 mm	16.5mm	4EYW8	Heli-Coil	100	—	**4GDT9**
	16 mm	19.6 mm	16.5mm	4EYW8	—	1	**5WZR4**	—
	16 mm	19.6 mm	16.5mm	4EYW7	—	1	—	**5XAF8**
16 x 2 mm x 1.5D	24 mm	19.6 mm	16.5mm	4EYW8	—	1	**5WZR5**	—
M16 x 2	24 mm	19.6 mm	16.5mm	4EYW7	—	1	—	**5XAF9**
M18 x 2.5	27 mm	21.65 mm	18.75mm	4EYW9	Heli-Coil	6	**4EYK8**	—
	18 mm	22 mm	18-8mm	4EYW9	—	1	**5WZR6**	—
	18 mm	22 mm	18-8mm	4EYW8	—	1	—	**5XAG0**
	27 mm	22 mm	18-8mm	4EYW9	—	1	**5WZR7**	—
	27 mm	22 mm	18-8mm	4EYW8	—	1	—	**5XAG1**
M20 x 2.5	30 mm	23.98 mm	20.75mm	4EYX2	Heli-Coil	4	**4EYK9**	—
	20 mm	24.4 mm	20.8mm	4EYX2	—	1	**5WZR8**	**5XAG2**
	30 mm	24.4 mm	20.8mm	4EYX2	—	1	**5WZR9**	**5XAG3**
M24 x 3	36 mm	29 mm	25.0mm	4EYX3	—	1	**5WZT0**	**5XAG4**

**** Length is installed length.***

Internal Thread Size	Length*	Free Coil Dia.	Drill Size	Insert Tap	Brand	Pkg. Qty.	INSERTS FREE RUNNING Item No.	INSERTS SCREW LOCKING Item No.
304 Stainless Steel, Dry Film Lubricant								
M2.5 x 0.45	2.5 mm	3.45 mm	#37	4EYX1	Heli-Coil	100	**4DAF9**	—
	3.8 mm	3.45 mm	#37	4EYX1	Heli-Coil	100	**4DAG1**	**4GDU6**
	5 mm	3.45 mm	#37	4EYX1	Heli-Coil	100	**4DAG2**	**4GDU7**
	6.3 mm	3.45 mm	#37	4EYX1	Heli-Coil	100	—	**4GDU8**
M3 x 0.5	3 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAJ9**	—
	4.5 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAK2**	—
	6 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAK4**	—
M3.5 x 0.5	3.5 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDU9**
	5.3 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDV1**
	7 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDV2**
M4 x 0.7	4 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAN6**	—
	6 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAN8**	**4GDX5**
	8 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	—	**4GDX6**
M5 x 0.8	5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	**4DAT9**	—
	7.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	**4DAU2**	—
M6 x 1	6 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAW8**	**4GDZ5**
	9 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAX1**	**4GDZ6**
	12 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAX3**	**4GDZ7**
M8 x 1.25	8 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	**4DCC1**	—
Nitronic 60								
M2.5 x 0.45	2.5 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	**4DAF7**	—
	3.8 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	**4DAG3**	—
	5 mm	3.45 mm	2.55mm	4EYX1	Heli-Coil	100	**4DAF8**	—
M3 x 0.5	3 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAK6**	—
	4.5 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAJ3**	—
	6 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAK8**	**4GDW7**
	7.5 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAJ5**	—
	9 mm	4.075 mm	3.15mm	4EYX5	Heli-Coil	100	**4DAJ7**	—
M3.5 x 0.5	3.5 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDV3**
	5.3 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDV4**
	7 mm	4.675 mm	3.7mm	4EYX4	Heli-Coil	100	—	**4GDV5**
M4 x 0.7	4 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAP1**	**4GDX7**
	6 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAP3**	**4GDX8**
	8 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAP5**	**4GDX9**
	10 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAN2**	—
	12 mm	5.325 mm	4.2mm	4EYX7	Heli-Coil	100	**4DAN4**	—
M5 x 0.8	5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	**4DAT1**	**4GDY6**
	7.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	**4DAU4**	**4GDY7**
	10 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	**4DAT3**	**4GDY8**
	12.5 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	—	**4DAT5**
	15 mm	6.525 mm	5.2mm	4EYX9	Heli-Coil	100	—	**4DAT7**
M6 x 1	6 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAV7**	**4GDZ8**
	9 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAV9**	—
	12 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	**4DAW2**	**4GEA1**
	15 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	—	**4DAW4**
	18 mm	7.675 mm	6.25mm	4EYY2	Heli-Coil	100	—	**4DAW6**
M8 x 1.25	8 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	—	**4DAZ4**
	12 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	—	**4DAZ7**
	16 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	—	**4DCA1**
	20 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	—	**4DCA4**
	24 mm	10.075 mm	8.3mm	4EYY7	Heli-Coil	100	—	**4DCA7**
Sav-A-Thread Metric								
12L14 Steel, Black Oxide Finsh								
M14 x 1.25	0.307 in	0.667 in		—	Heli-Coil	6	**4CZE1**	—
	0.422 in	0.667 in		—	Heli-Coil	6	**4CZD9**	—
	0.669 in	0.667 in		—	Heli-Coil	6	**4CZD8**	—
Spark Plug Metric								
304 Stainless Steel								
M10 x 1	0.5 in	0.494 in	—	—	Heli-Coil	6	**4CZD7**	—
M14 x 1.25	0.472 in	0.688 in	—	—	Heli-Coil	6	**4CZE2**	—
	0.5 in	0.688 in	—	—	Heli-Coil	6	**4CZE3**	—
	0.75 in	0.688 in	—	—	Heli-Coil	6	**4CZE4**	—
M18 x 1.5	0.5 in	0.895 in	—	—	Heli-Coil	6	**4CZE5**	—

HeliCoil® RECOIL QUALITY THREAD INSERT SYSTEMS

Screw Thread Insert Taps

STI taps are oversized from standard taps to allow for the wire insert once installed. High-speed, steel intermediate (plug) lead taps cut threads to a precise dimension.

Note: Additional sizes are available; go to Grainger.com and search for "Screw Thread Insert Taps".

2G960

Size	Pitch	Thread Length	Shank Dia.	Overall Length	Pitch Dia. Limits	Mfr. Model	Brand	Item No.
UNC								
#4	40	11/16 in	9/64 in	2 in	H1	04CPB	Heli-Coil	**4EYT8**
#6	32	7/8 in	3/16 in	2 3/8 in	H2	06CPB	Heli-Coil	**4EYN1**
#8	32	15/16 in	7/32 in	2 3/8 in	H2	2CPB	Heli-Coil	**4EYN3**
1/4"	20	1 1/8 in	5/16 in	2 23/32 in	H2	4CPB	Heli-Coil	**4EYN9**
	20	1 1/8 in	5/16 in	2 23/32 in	H3	43045	Recoil	**2G948**
5/16"	18	1 1/4 in	3/8 in	2 15/16 in	H3	5CPB	Heli-Coil	**4EYU1**
	18	1 1/4 in	3/8 in	2 15/16 in	H3	43055	Recoil	**2G950**
3/8"	16	1 21/32 in	23/64 in	3 3/8 in	H3	6CPB	Heli-Coil	**4EYT4**
	16	1 21/32 in	23/64 in	3 5/32 in	H3	43065	Recoil	**2G952**
7/16"	14	1 21/32 in	27/64 in	3 37/64 in	H3	7CPB	Heli-Coil	**4EYU7**
1/2"	13	1 13/16 in	15/32 in	3 13/16 in	H3	8CPB	Heli-Coil	**4EYN5**
	13	1 13/16 in	15/32 in	3 37/64 in	H3	43085	Recoil	**2G954**
5/8"	0.50mm	2 in	17/32 in	4 1/4 in	H3	43105	Recoil	**2G956**
	0.50mm	2 in	37/64 in	4 1/4 in	H3	8187-10	Heli-Coil	**4EYU3**
3/4"	0.60mm	2 7/32 in	37/64 in	4 11/16 in	H3	43125	Recoil	**2G958**
	0.60mm	2 7/32 in	11/16 in	4 11/16 in	H3	8187-12	Heli-Coil	**4EYT1**
7/8"	0.70mm	2 1/2 in	51/64 in	5 1/8 in	H3	8187-14	Heli-Coil	**4EYV1**
1"	0.80mm	2 9/16 in	1 1/64 in	5 3/4 in	H4	8187-16	Heli-Coil	**4EYR7**
1 1/4"	1.00mm	3 in	1 7/32 in	6 3/8 in	H4	8187-20	Heli-Coil	**4EYP8**
1 3/8"	1.25mm	3 3/16 in	1 19/64 in	6 11/16 in	H6	8187-22	Heli-Coil	**4EYR6**

Size	Pitch	Thread Length	Shank Dia.	Overall Length	Pitch Dia. Limits	Mfr. Model	Brand	Item No.
UNF								
#10	32	1 in	1/4 in	2 1/2 in	H2	3FPB	Heli-Coil	**4EYP4**
1/4"	28	1 1/8 in	5/16 in	2 23/32 in	H2	4FPB	Heli-Coil	**4EYP1**
Metric Coarse								
M4	0.70mm	22.22 mm	4.93 mm	60.32 mm	D6	2087-4	Heli-Coil	**4EYX8**
M5	0.80mm	25.40 mm	6.48 mm	64.00 mm	D7	2087-5	Heli-Coil	**4EYY1**
M6	1.00mm	21.83 mm	8.00 mm	71.83 mm	D3	45065	Recoil	**2G960**
	1.00mm	28.58 mm	8.07 mm	69.06 mm	D3	4687-6	Heli-Coil	**4EYY2**
M8	1.25mm	23.81 mm	10 mm	79.77 mm	D9	45085	Recoil	**2G962**
	1.25mm	31.75 mm	9.68 mm	74.61 mm	D9	2087-8	Heli-Coil	**4EYY8**
M12	1.75mm	30.16 mm	11.2 mm	94.85 mm	D11	45125	Recoil	**2G966**
	1.75mm	42.07 mm	10.90 mm	91.28 mm	D11	4687-12	Heli-Coil	**4EYW5**
M14	2.00mm	32.00 mm	12.50 mm	102.00 mm	D3	45145	Recoil	**5WA95**
	2.00mm	46.04 mm	13.77 mm	102.39 mm	H3	4687-14	Heli-Coil	**4EYW7**
M16	2.00mm	36.00 mm	14.00 mm	112.00 mm	D3	45165	Recoil	**5WA97**
	2.00mm	50.80 mm	14.99 mm	107.95 mm	H3	4687-16	Heli-Coil	**4EYW8**
M20	2.50mm	45.00 mm	19.00 mm	130.00 mm	D3	45205	Recoil	**5WB11**
	2.50mm	56.36 mm	19.00 mm	124.62 mm	H4	4687-20	Heli-Coil	**4EYX2**
M24	3.00mm	65.09 mm	22.76 mm	138.11 mm	D4	4687-24	Heli-Coil	**4EYX3**
Metric Fine								
M14	1.50mm	46.04 mm	12.19 mm	96.84 mm	H3	5476-14	Heli-Coil	**4EYW6**
	1.50mm	75.00 mm	12.50 mm	102.00 mm	D3	47145	Recoil	**5WA93**

2 Locking Key

4 Locking Key

Key Locking Thread Inserts

- For metal applications; not recommended for cast iron or brittle material

Repair damaged threads with a positive mechanical lock, preventing rotational spinout from vibration or torque.

Note: Units measured in inches have an internal thread class of 3B and an external thread class of 2A. Metric units have an internal thread class of 6H and an external thread class of 6G.

Stainless steel and key locking thread insert installation tools are available on Grainger.com®; search for "stainless steel key locking thread inserts" or "key locking thread installation tools".

Internal Thread Size	External Thread Size	L	Drill Size	Installation Tool No.	Item No.	Pkg. Qty.
Thick Wall						
2 Locking Keys						
10-24	3/8-16	0.31 in	Q	5XA40	**5WY70**	10
10-32	3/8-16	0.31 in	Q	5XA40	**5WY71**	10
1/4-20	7/16-14	0.37 in	X	5XA41	**5WY72**	10
1/4-28	7/16-14	0.37 in	X	5XA41	**5WY73**	10
4 Locking Keys						
8-32	5/16-18	0.31 in	I	5XA39	**5WY69**	10
5/16-18	1/2-13	0.43 in	29/64 in	5XA42	**5WY74**	10
5/16-24	1/2-13	0.43 in	29/64 in	5XA42	**5WY75**	10
3/8-16	9/16-12	0.5 in	33/64 in	5XA43	**5WY76**	10
3/8-24	9/16-12	0.5 in	33/64 in	5XA43	**5WY77**	10
7/16-14	5/8-11	0.62 in	37/64 in	5XA43	**5WY78**	10
7/16-20	5/8-11	0.62 in	37/64 in	5XA43	**5WY79**	10
1/2-13	3/4-16	0.62 in	45/64 in	5XA44	**5WY80**	5
1/2-20	3/4-16	0.62 in	45/64 in	5XA44	**5WY81**	5
9/16-12	3/4-16	0.81 in	45/64 in	5XA44	**5WY82**	5
9/16-18	3/4-16	0.81 in	45/64 in	5XA44	**5WY83**	5
5/8-11	7/8-14	0.87 in	53/64 in	5XA45	**5WY84**	5
5/8-18	7/8-14	0.87 in	53/64 in	5XA45	**5WY85**	5
3/4-10	1 1/8-12	1.12 in	1 1/16 in	5XA46	**5WY86**	1
3/4-16	1 1/8-12	1.12 in	1 1/16 in	5XA46	**5WY87**	1
7/8-9	1 1/4-12	1.25 in	1 3/16 in	5XA46	**5WY88**	1
7/8-14	1 1/4-12	1.25 in	1 3/16 in	5XA46	**5WY89**	1
1-8	1 3/8-12	1.37 in	1 5/16 in	5XA47	**5WY90**	1
1-12	1 3/8-12	1.37 in	1 5/16 in	5XA47	**5WY91**	1
1-14	1 3/8-12	1.37 in	1 5/16 in	5XA47	**5WY92**	1
Thin Wall						
2 Locking Keys						
10-24	5/16-18	0.31 in	I	5XA40	**5WY93**	10
10-32	5/16-18	0.31 in	I	5XA40	**5WY94**	10
1/4-20	3/8-16	0.37 in	Q	5XA41	**5WY95**	10
1/4-28	3/8-16	0.37 in	Q	5XA41	**5WY96**	10
M5 x 0.8mm	M8 x 1.25	8 mm	6.9mm	5XA40	**5XA31**	5
M6 x 1	M10 x 1.25	10 mm	8.8mm	5XA41	**5XA32**	5
4 Locking Keys						
5/16-18	7/16-14	0.43 in	X	5XA42	**5WY97**	10
5/16-24	7/16-14	0.43 in	X	5XA42	**5WY98**	10
3/8-16	1/2-13	0.5 in	29/64 in	5XA43	**5WY99**	10
3/8-24	1/2-13	0.5 in	29/64 in	5XA43	**5XA10**	10
7/16-14	9/16-12	0.62 in	33/64 in	5XA43	**5XA11**	10
7/16-20	9/16-12	0.62 in	33/64 in	5XA43	**5XA12**	10
1/2-13	5/8-11	0.62 in	37/64 in	5XA44	**5XA13**	5
1/2-20	5/8-11	0.62 in	37/64 in	5XA44	**5XA14**	5
M8 x 1	M12 x 1.25	12 mm	10.80mm	5XA42	**5XA33**	5
M8 x 1.25	M12 x 1.25mm	12 mm	10.8mm	5XA42	**5XA34**	5
M10 x 1.25	M14 x 1.50	14 mm	12.80mm	5XA43	**5XA35**	5
M10 x 1.5	M14 x 1.5	14 mm	12.8mm	5XA43	**5XA36**	5
M12 x 1.25	M16 x 1.50	16 mm	14.75mm	5XA44	**5XA37**	5
M12 x 1.75	M16 x 1.5	16 mm	14.75mm	5XA44	**5XA38**	5

Nut Insert

Knurled Nut Insert

Nut Inserts

Eliminate the need for tapping, welding, and brazing. Upper sleeve and base has both internal and external threads. Install in predrilled or punched holes in metal or rigid material of at least 3/32".

Note: Aluminum available; on Grainger.com®, search for "aluminum nut inserts".

Knurled Nut Inserts—For blind or limited clearance.

Thread Size	Head Dia.	Body Dia.	Item No.	Pkg. Qty.
Knurled Nut Inserts, Stainless Steel				
10-32	0.306 in	0.281 in	**4CUF6**	10
1/4-20	0.4 in	0.375 in	**4CUF7**	10
5/16-18	0.528 in	0.5 in	**4CUF8**	10
3/8-16	0.588 in	0.562 in	**4CUF9**	10
M4 x 0.7	6.83 mm	6.34 mm	**4CUG1**	10
Nut Inserts, Zinc Steel				
6-32	0.25 in	0.215 in	**5NNT0**	100
8-32	0.282 in	0.246 in	**5NNF4**	100
10-24	0.314 in	0.277 in	**5NNF1**	100
10-32	0.314 in	0.277 in	**5NNF2**	100
1/4-20	0.408 in	0.372 in	**5NNT2**	50
5/16-18	0.537 in	0.496 in	**5NNT1**	25
3/8-16	0.6 in	0.559 in	**5NNF3**	25

Well-Nut

Jack Nut

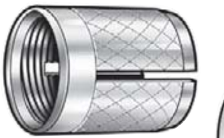
POP® Avdel®

Threaded Inserts

Jack Nut—For use in thin, soft, or brittle materials. Can be set with manual or pneumatic tools. Steel material. Removable.

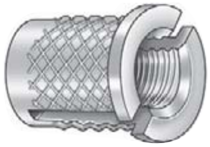
Well-Nut—Flanged bushings have a brass machine nut molded on to 1 end. Seal against moisture and gases and help prevent galvanic corrosion. For isolating against shock-and-vibration and electrical conductivity. Rubber, chlorophrene material. Removable.

Thread Size	Well-Nut Head Dia.	Well-Nut Body Dia.	Well-Nut Grip Range	Well-Nut Item No.	Well-Nut Pkg. Qty.	Jack Nut Head Dia.	Jack Nut Body Dia.	Jack Nut Grip Range	Jack Nut Item No.	Jack Nut Pkg. Qty.
6-32	0.452 in	0.312 in	0.015 to 0.156 in	**3ZLV8**	25	0.469 in	0.308 in	0.015 to 0.187 in	**3ZLU6**	25
	0.554 in	0.24 in	0.375 to 0.512 in	**3ZLV5**	25	0.469 in	0.308 in	0.187 to 0.375 in	**3ZLU7**	25
8-32	0.438 in	0.312 in	0.015 to 0.156 in	**3ZLV4**	25	—	—	—	—	—
10-24	—	—	—	—	—	0.531 in	0.378 in	0.015 to 0.187 in	**3ZLU8**	25
	—	—	—	—	—	0.531 in	0.378 in	0.187 to 0.375 in	**3ZLU9**	25
10-32	0.5 in	0.377 in	0.015 to 0.192 in	**3ZLW3**	25	—	—	—	—	—
	0.562 in	0.375 in	0.312 to 0.591 in	**3ZLW4**	10	—	—	—	—	—
	0.562 in	0.377 in	0.035 to 0.232 in	**3ZLW1**	10	—	—	—	—	—
1/4-20	0.63 in	0.5 in	0.015 to 0.157 in	**3ZLW2**	10	0.625 in	0.438 in	0.015 to 0.187 in	**3ZLV1**	25
	0.635 in	0.5 in	0.250 to 0.457 in	**3ZLV9**	10	—	—	—	—	—
	0.74 in	0.5 in	0.031 to 0.187 in	**3ZLV6**	10	—	—	—	—	—
5/16-18	0.875 in	0.62 in	0.015 to 0.156 in	**3ZLV7**	5	—	—	—	—	—
3/8-16	1.162 in	0.75 in	0.015 to 0.437 in	**3ZLV3**	5	—	—	—	—	—



Diamond-Knurled, Flush

Diamond-Knurled, Flanged



Reverse Slot

Press Inserts

- Use in plastic

Note: Stainless steel are available; on Grainger.com®, search for "stainless steel press inserts."

Diamond-Knurled—Inserts are installed cold, eliminating the need to chase threads. For blind and through holes; install with a hammer or arbor press.

Reverse Slot—Reverse slot puts head on the back side of the part for greater pull-out resistance. Simply drill or mold hole and press into place.

Internal Thread Size	Length	Drill Size	Item No.	Pkg. Qty.
Diamond-Knurled, Flanged				
2-56	5/32 in	1/8 in	**4ZU29**	50
4-40	5/8 in	7/16 in	**4ZU31**	50
6-32	1/4 in	3/16 in	**4ZU33**	50
8-32	5/16 in	7/32 in	**4ZU35**	25
10-32	3/8 in	1/4 in	**4ZU37**	25
1/4-20	1/2 in	5/16 in	**4ZU39**	25
5/16-18	9/16 in	3/8 in	**4ZU41**	10
3/8-16	5/8 in	7/16 in	**4ZU42**	10
Diamond-Knurled, Flush				
0-80	1/8 in	3/32 in	**4ZE96**	50
2-56	5/32 in	1/8 in	**4ZE97**	50
4-40	3/16 in	5/32 in	**4ZE99**	50
6-32	1/4 in	3/16 in	**4ZU11**	50
8-32	5/16 in	7/32 in	**4ZU13**	50
10-24	3/8 in	1/4 in	**4ZU17**	25
10-32	3/8 in	1/4 in	**4ZU15**	25
1/4-20	1/2 in	5/16 in	**4ZU18**	25
5/16-18	9/16 in	3/8 in	**4ZU20**	10
3/8-16	5/8 in	7/16 in	**4ZU22**	10
M3 x 0.5	3/16 in	5/32 in	**4ZU25**	50
M4 x 0.7	5/16 in	7/32 in	**4ZU26**	50
M5 x 0.8	3/8 in	1/4 in	**4ZU27**	50
M6 x 1	1/2 in	5/16 in	**4ZU28**	25
Reverse Slot				
2-56	3/16 in	1/8 in	**1GUC5**	50
4-40	3/16 in	3/16 in	**1GUC6**	50
6-32	1/4 in	3/16 in	**1GUC7**	50
8-32	5/16 in	7/32 in	**1GUC8**	50
10-32	3/8 in	1/4 in	**1GUC9**	25
1/4-20	1/2 in	5/16 in	**1GUD1**	25

Knife Thread Inserts

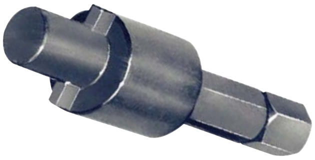
- Brass
- Use with hardwoods

External knife threads with slotted drive hold firm without crushing.

Note: Stainless steel knife thread inserts are available on Grainger.com®; search for “knife thread inserts.”

Internal Thread Size	Length	Drill Size	Power Driver	Item No.	Pkg. Qty.
4-40	3/8 in	1/4 in	—	**4ZU54**	50
	3/8 in	1/4 in	—	**4KXP3**	250
6-32	3/8 in	1/4 in	4ZE51	**4ZU55**	25
	3/8 in	1/4 in	4ZE51	**4KXP4**	250
8-32	3/8 in	1/4 in	4ZE52	**4ZU56**	50
	3/8 in	1/4 in	4ZE52	**4KXP5**	250
10-24	1/2 in	3/8 in	4ZE53	**4ZU58**	25
	1/2 in	3/8 in	4ZE53	**4KXP6**	250
10-32	1/2 in	3/8 in	4ZE53	**4ZU59**	25
	1/2 in	3/8 in	4ZE53	**4KXP7**	250
1/4-20	1/2 in	25/64 in	4ZE54	**4ZU61**	25
	1/2 in	3/8 in	4ZE54	**4KXP8**	250
1/4-28	1/2 in	3/8 in	4ZE54	**4ZU62**	25
5/16-18	5/8 in	1/2 in	4ZE55	**4ZU64**	25
	5/8 in	1/2 in	4ZE55	**4KXP9**	100
5/16-24	5/8 in	1/2 in	4ZE55	**4ZU65**	25
3/8-16	5/8 in	1/2 in	4ZE56	**4ZU66**	25
	5/8 in	1/2 in	4ZE56	**4KXR1**	100
3/8-24	5/8 in	1/2 in	4ZE56	**4ZU67**	25
M4 x 0.7	3/8 in	1/4 in	4ZE52	**4ZU69**	10
M5 x 0.8	1/2 in	3/8 in	4ZE53	**4ZU70**	10
M6 x 1	1/2 in	3/8 in	4ZE54	**4ZU71**	10
M8 x 1.25	5/8 in	1/2 in	4ZE55	**4ZU72**	10

Thread Insert Power Drivers

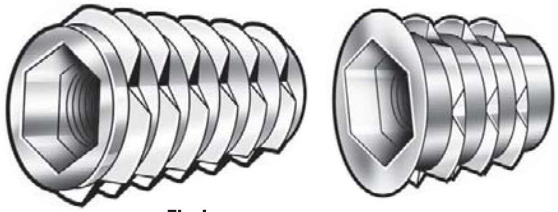


Install thread inserts without engaging the threads. Drivers ensure inserts are installed at the proper depth.

Use With Internal Thread Size	Item No.
1/4 in Shank	
#6	**4ZE51**
#8, and M5, M4	**4ZE52**
#10	**4ZE53**
1/4 in and M6	**4ZE54**
5/16 in and M8	**4ZE55**
M4 Hex	**4ZU82**
M5 Hex	**4ZU85**
M6 Hex	**4ZU86**

Use With Internal Thread Size	Item No.
3/8 in Shank	
3/8 in and M10	**4ZE56**
7/16 in and M12	**4ZE57**
1/2 in and 9/16 in	**4ZE58**
5/8 in and M16	**4ZE59**
3/4 in	**4ZE60**
M8 Hex	**4ZY12**
M10 Hex	**4ZY13**

Internal Thread Size	External Thread Size	Length	Wall Type	Drill Size	Power Driver	Item No.	Pkg. Qty.
4-40	10-32	1/4 in	Heavy	5/32 in	—	**4ZY16**	10
6-32	1/4-20	9/32 in	Heavy	7	4ZE51	**4ZB93**	10
	M6 x 1	6.5 mm	Heavy	5.1mm	4ZE51	**4ZE61**	5
8-32	5/16-18	19/64 in	Heavy	F	4ZE52	**4ZB94**	10
	M8 x 1.25	7.5 mm	Heavy	6.9mm	4ZE52	**4ZE62**	5
10-24	5/16-18	5/16 in	Thin	I	4ZE53	**4ZB81**	10
	3/8-16	13/32 in	Heavy	5/16 in	4ZE53	**4ZE14**	10
	M8 x 1.25	7.5 mm	Heavy	6.9mm	4ZE53	**4ZE63**	5
10-32	5/16-18	5/16 in	Thin	I	4ZE53	**4ZB82**	10
	3/8-16	13/32 in	Heavy	5/16 in	4ZE53	**4ZE15**	10
	M8 x 1.25	7.5 mm	Heavy	6.9mm	4ZE53	**4ZE64**	5
1/4-20	3/8-16	3/8 in	Thin	Q	4ZE54	**4ZB83**	10
	7/16-14	7/16 in	Heavy	23/64 in	4ZE54	**4ZE16**	10
	M10 x 1.5	10.5 mm	Heavy	8.6mm	4ZE54	**4ZE65**	5
	1/2-13	31/64 in	Extra Heavy	27/64 in	4ZE54	**4ZE30**	10
1/4-28	3/8-16	3/8 in	Thin	Q	4ZE54	**4ZB84**	10
	7/16-14	7/16 in	Heavy	23/64 in	4ZE54	**4ZE17**	10
5/16-18	7/16-14	7/16 in	Thin	X	4ZE55	**4ZB85**	10
	1/2-13	31/64 in	Heavy	27/64 in	4ZE55	**4ZE18**	10
	M12 x 1.75	12.5 mm	Heavy	10.4mm	4ZE55	**4ZE66**	5
	9/16-12	33/64 in	Extra Heavy	31/64 in	4ZE55	**4ZE31**	10
5/16-24	7/16-14	7/16 in	Thin	X	4ZE55	**4ZB86**	10
	1/2-13	31/64 in	Heavy	27/64 in	4ZE55	**4ZE19**	10
3/8-16	1/2-13	1/2 in	Thin	29/64 in	4ZE56	**4ZB87**	10
	9/16-12	33/64 in	Heavy	31/64 in	4ZE56	**4ZE20**	10
	M16 x 2	17 mm	Heavy	14mm	4ZE56	**4ZE67**	5
	5/8-11	21/32 in	Extra Heavy	17/32 in	4ZE56	**4ZE32**	5
3/8-24	1/2-13	1/2 in	Thin	29/64 in	4ZE56	**4ZB88**	10
	9/16-12	33/64 in	Heavy	31/64 in	4ZE56	**4ZE21**	10
7/16-14	9/16-12	9/16 in	Thin	33/64 in	4ZE57	**4ZB89**	5
	5/8-11	21/32 in	Heavy	17/32 in	4ZE57	**4ZE22**	5
7/16-20	9/16-12	9/16 in	Thin	33/64 in	4ZE57	**4ZB90**	5
	5/8-11	21/32 in	Heavy	17/32 in	4ZE57	**4ZE23**	5
1/2-13	5/8-11	5/8 in	Thin	37/64 in	4ZE58	**4ZB91**	5
	3/4-10	21/32 in	Heavy	21/32 in	4ZE58	**4ZE24**	5
	3/4-10	1 in	Heavy	21/32 in	4ZE58	**4ZE25**	5
	M16 x 2	1 mm	Heavy	14mm	4ZE58	**4ZE68**	5
	7/8-9	11/16 in	Extra Heavy	49/64 in	4ZE58	**4ZE33**	5
1/2-20	5/8-11	5/8 in	Thin	37/64 in	4ZE58	**4ZB92**	5
	3/4-10	21/32 in	Heavy	21/32 in	4ZE58	**4ZE26**	5
9/16-12	3/4-10	21/32 in	Heavy	21/32 in	4ZE58	**4ZE27**	5
9/16-18	3/4-10	21/32 in	Heavy	21/32 in	4ZE58	**4ZE28**	5
5/8-11	7/8-9	11/16 in	Heavy	49/64 in	4ZE59	**4ZB95**	5
	7/8-9	1 1/8 in	Heavy	49/64 in	4ZE59	**4ZB96**	5
	1-8	25/32 in	Extra Heavy	7/8 in	—	**4ZE29**	5



Hex Drive Thread Inserts

- Die cast zinc alloy
- Use with soft woods, composition board, and MDF
- Install with a standard hex key or power driver

Flush models are for installation on curves or below surfaces. Flanged models help control the insert depth. For knock-down furniture, shipping crates, and cabinetry.

Internal Thread Size	Length	Drill Size	Hex Key Size	Power Driver	Item No.	Pkg. Qty.
Flush						
8-32	25/64 in	17/64 in	M4	4ZU82	**4ZU75**	100
10-24	33/64 in	9/32 in	M5	4ZU85	**4ZU76**	50
10-32	33/64 in	9/32 in	M5	4ZU85	**4ZU77**	50
1/4-20	33/64 in	23/64 in	M6	4ZU86	**4ZU78**	100
	25/32 in	23/64 in	M6	4ZU86	**4ZU79**	100
5/16-18	25/32 in	7/16 in	M8	4ZY12	**4ZU83**	50
	63/64 in	7/16 in	M8	4ZY12	**4ZU84**	50
M6 x 1.0	33/64 in	23/64 in	M6	4ZU86	**4ZU73**	50
	25/32 in	23/64 in	M6	4ZU86	**4ZU74**	50
M8 x 1.25	33/64 in	7/16 in	M8	4ZY12	**4ZU80**	25
	25/32 in	7/16 in	M8	4ZY12	**4ZU81**	25
Flanged						
8-32	25/64 in	17/64 in	M4	4ZU82	**4ZU89**	100
10-24	7/16 in	9/32 in	M5	4ZU85	**4ZU90**	50
	25/32 in	9/32 in	M5	4ZU85	**4ZU91**	50
10-32	7/16 in	9/32 in	M5	4ZU85	**4ZU92**	50
	33/64 in	9/32 in	M5	4ZU85	**4ZU93**	50
	25/32 in	9/32 in	M5	4ZU85	**4ZU94**	25
1/4-20	33/64 in	23/64 in	M6	4ZU86	**4ZU95**	100
	25/32 in	23/64 in	M6	4ZU86	**4ZU96**	100
	63/64 in	23/64 in	M6	4ZU86	**4ZU97**	50
3/8-16	33/64 in	31/64 in	M10	4ZY13	**4ZU98**	25
	63/64 in	31/64 in	M10	4ZY13	**4ZU99**	25
5/16-18	33/64 in	7/16 in	M8	4ZY12	**4ZY14**	50
	63/64 in	7/16 in	M8	4ZY12	**4ZY15**	25
M6 x 1.0	33/64 in	23/64 in	M6	4ZU86	**4ZU87**	50
	25/32 in	23/64 in	M6	4ZU86	**4ZU88**	50
M8 x 1.25	33/64 in	7/16 in	M8	4ZY12	**4ZY10**	25
	25/32 in	7/16 in	M8	4ZY12	**4ZY11**	25

E-Z LOK

Self-Locking Thread Inserts

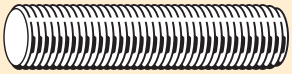
- Carbon steel

Adhesive on the external threads activates immediately after installation, locking the insert into place and sealing against liquids and gases to pressures of 6000 psi.

Note: Internal thread class for internal thread sizes is 2B; 6H for metric sizes. External thread class for external inch thread sizes is 2A; 6G for metric sizes.

303 stainless steel available; on Grainger.com®, search for "303 stainless steel self-locking thread inserts."

Internal Thread Size	External Thread Size	Length	Wall Type	Drill Size	Power Driver	Item No.	Pkg. Qty.
5/8-18	7/8-9	11/16 in	Heavy	49/64 in	4ZE59	**4ZB97**	5
3/4-10	1-8	25/32 in	Heavy	7/8 in	4ZE60	**4ZB98**	5
3/4-16	1-8	25/32 in	Heavy	7/8 in	4ZE60	**4ZB99**	5
7/8-9	1 1/4-7	1 1/8 in	Heavy	1 7/64 in	—	**4ZE10**	5
7/8-14	1 1/4-7	1 1/8 in	Heavy	1 7/64 in	—	**4ZE11**	5
1-8	1 3/8-12	1 1/4 in	Heavy	1 9/32 in	—	**4ZE12**	5
1-14	1 3/8-12	1 1/4 in	Heavy	1 9/32 in	—	**4ZE13**	5
M3 x 0.5	M6 x 1	6.5 mm	Heavy	5.1mm	—	**4ZE38**	10
M4 x 0.7	M8 x 1.25	7.5 mm	Heavy	6.9mm	4ZE52	**4ZE39**	10
M5 x 0.8	M8 x 1.25	7.5 mm	Heavy	6.9mm	4ZE52	**4ZE40**	10
M6 x 1	M10 x 1.5	10.5 mm	Heavy	8.6mm	4ZE54	**4ZE41**	10
	3/8-16	13/32 in	Heavy	5/16 in	4ZE54	**4ZE74**	10
M8 x 1.25	M12 x 1.75	12.5 mm	Heavy	10.4mm	4ZE55	**4ZE42**	5
	1/2-13	31/64 in	Heavy	27/64 in	4ZE55	**4ZE75**	10
M10 x 1.25	9/16-12	33/64 in	Heavy	31/64 in	4ZE56	**4ZE70**	10
M10 x 1.5	M16 x 2	17 mm	Heavy	14mm	4ZE56	**4ZE34**	5
	9/16-12	33/64 in	Heavy	31/64 in	4ZE56	**4ZE69**	10
M12 x 1.75	M16 x 2	17 mm	Heavy	14mm	4ZE57	**4ZE35**	5
	3/4-10	21/32 in	Heavy	21/32 in	4ZE57	**4ZE71**	5
M14 x 2	7/8-9	11/16 in	Heavy	49/64 in	—	**4ZE72**	5
M16 x 2	M24 x 3	20 mm	Heavy	21mm	4ZE59	**4ZE36**	5
	1-8	25/32 in	Heavy	7/8 in	4ZE59	**4ZE73**	5
M20 x 2.5	M36 x 4	30 mm	Heavy	33mm	—	**4ZE37**	5

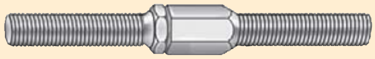


Threaded Rod

Double-End Threaded Stud w/Round Shank

Double-End Threaded Stud w/Square Shank

Internally Threaded Stud



Double-End Threaded Stud w/Hex Shank

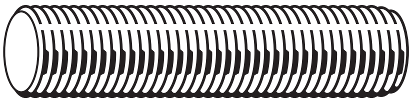
Threaded Rod and Threaded Stud Information

Threaded Rods—Headless, fully threaded metal bars are available in stock lengths of 1 ft. to 12 ft. Cut to length with a hacksaw or power band saw.

Threaded Studs—Headless metal rods are precut to standard lengths as short as ¼". Can be threaded on 1 or both ends, or along entire length.

Fully Threaded Studs—Threaded the entire length with conventional threads. Commonly used with a nut on either end to clamp 2 parts together.

Double-End Studs—General term for studs with an unthreaded portion in the middle and threads on both ends. Also known as stud bolts.



Threaded Rods

- Right-hand thread

Fully threaded rods can be used for hanging, mounting, bracing, supporting, and fastening in plumbing, heating, electrical, construction, and fabrication applications.

Note: Additional lengths and materials are also available; go to Grainger.com® and search for "Threaded Rods".

Dia./Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
304 Stainless Steel Plain Finish					
#2-56	—	21YN77	21YN68	21YN91	—
#3-48	—	21YN87	21YN98	21YP11	—
#4-40	—	21YP12	21YN60	21YN70	—
#5-40	—	21YP13	21YP14	—	—
#6-32	19NN60	19NN61	19NN62	19NN63	—
#8-32	19NN64	19NN65	19NN66	19NN67	—
#10-24	19NN68	19NN69	19NN70	19NN71	—
#10-32	19NN72	19NN73	19NN74	19NN75	—
¼"-20	10W656	10W657	4RDF8	4RDH8	19NN76
¼"-28	10W693	10W694	19NT30	19NT38	21YP22
5/16"-18	10W659	10W660	4RDG1	19NT39	10W661
5/16"-24	10W695	10W696	19NT31	19NT40	21YP23
⅜"-16	10W662	10W663	4RDG3	4RDJ3	10W664
⅜"-24	10W697	10W698	19NT32	19NT41	—
7/16"-14	10W665	10W666	4RDG5	19NT42	10W667
7/16"-20	10W699	10W701	19NT33	19NT43	—
½"-13	10W668	10W669	4RDG7	4RDJ7	10W670
½"-20	10W702	10W703	19NT34	19NT44	21YP24
9/16"-12	10W671	10W672	25DL54	10W673	10W674
⅝"-11	10W675	10W676	4RDG9	4RDJ9	10W677
⅝"-18	10W704	10W705	19NT35	10W706	21YN88
¾"-10	10W678	10W679	4RDH2	4RDK1	10W680
¾"-16	10W707	10W708	19NT36	19NT45	—
⅞"-9	10W681	10W682	4RDH4	19NT46	10W683
⅞"-14	10W709	10W710	19NT37	10W711	21YP26
1"-8	10W684	10W685	4RDH6	4RDK4	—
1"-8	—	—	—	—	10W686
1"-14	—	—	4RDH7	—	21YP03
1⅛"-7	—	—	25DL55	21YN95	21YN96
1¼"-7	19NN77	10W688	19NN78	19NT47	21YN97
1½"-6	19NN79	19NN80	19NN81	4RDK6	—
1¾"-5	21YP06	21YP09	—	21YP19	—
2"-4-1/2	21YP10	21YP20	—	21YP21	—
316 Stainless Steel Plain Finish					
#2-56	21YN67	21YN69	21YN82	21YN90	—
#4-40	—	21YN72	21YN66	21YN73	—
#6-32	19NN82	19NN83	19NN84	19NN85	—
#8-32	19NN86	19NN87	19NN88	19NN89	—
#10-24	19NN90	19NN91	19NN92	19NN93	—
#10-32	19NN94	19NN95	19NN96	19NN97	—
¼"-20	19NN98	19NN99	4RDK7	4RDL7	—
¼"-28	19NL69	19NL70	29DT92	19NL71	21YP28
5/16"-18	19NP01	19NP02	22RV35	19NT50	—
5/16"-24	19NL72	19NL73	29DT93	19NL74	21YP29
⅜"-16	19NP03	19NP04	22RV36	4RDL9	21YN63
⅜"-24	19NL75	19NL76	29DT94	19NL77	21YP30
½"-13	19NP05	19NL52	4RDL1	4RDN1	21YN62
½"-20	19NL78	19NL79	29DT96	19NL80	21YP31
9/16"-18	—	—	29DT97	—	—
⅝"-11	19NL53	19NL54	22RV37	4RDN2	21YN84
⅝"-18	19NL81	19NL82	29DT98	19NL83	21YP32
¾"-10	19NL55	19NL56	4RDL3	4RDN3	—
¾"-16	19NL84	19NL85	29DT99	19NL86	—
⅞"-9	19NL57	19NL58	19NT48	4RDN4	21YP05
⅞"-9	—	—	4RDL4	—	—
⅞"-14	—	—	29DU01	—	—
1"-8	19NL59	19NL60	4RDL5	4RDN5	—
1⅛"-7	19NL61	10L830	19NL62	19NL63	21YP01
1¼"-7	10L833	19NL64	19NT49	19NL65	21YP07
1½"-6	10L836	19NL66	19NL67	19NL68	21YP08
2"-4-1/2	—	—	21YP04	—	—
B7 Steel Black Oxide Finish					
⅜"-16	—	—	—	10P719	—
⅝"-11	—	—	—	10P723	—
¾"-10	—	—	—	10P725	—
B7 Steel Plain Finish					
¼"-20	—	19NL87	4FHH8	4FHL4	4FHP6
¼"-28	—	—	—	—	4FHP7
5/16"-18	—	19NL88	4FHH9	4FHL5	4FHP8
5/16"-24	—	—	4FHJ1	—	4FHP9
⅜"-16	—	19NL89	4FHJ2	4FHL6	4FHR1
⅜"-24	—	—	4FHJ3	4FHL7	4FHR2
7/16"-14	—	19NL90	—	—	—
½"-13	—	19NM76	4FHJ4	4FHL8	4FHR3
½"-20	—	—	4FHJ5	—	4FHR4
9/16"-18	—	—	29DM87	—	—
⅝"-11	—	19NM77	4FHJ6	4FHL9	4FHR5
⅝"-18	—	—	4FHJ7	4FHN1	4FHR6
¾"-10	—	19NM78	4FHJ8	4FHN2	4FHR7
¾"-16	—	—	4FHJ9	4FHN3	4FHR8
⅞"-9	—	19NM79	4FHK1	4FHN4	4FHR9
⅞"-14	—	—	4RDP4	—	—
1"-8	—	19NM80	4FHK2	4FHN5	4FHT1
1"-12	—	—	29DM88	—	—
1"-14	—	—	4FHK3	4FHN6	—
1⅛"-7	—	—	4FHK4	4FHN7	4FHT2
1⅛"-8	—	—	—	4FHN8	—
1¼"-7	—	19NM83	4FHK5	4FHN9	4FHT3
1¼"-8	—	—	4FHK6	4FHP1	—
1¼"-12	—	—	4FHK7	—	—
1⅜"-6	—	10P682	29DM91	4FHP2	—
1⅜"-8	—	—	4FHK8	—	—
1⅜"-12	—	—	29DM89	—	—
1½"-6	—	19NM84	4FHK9	4FHP3	4FHT4
1½"-12	—	—	29DM90	4FHP4	—
1¾"-5	—	10P689	4FHL1	4FHP5	—
1¾"-8	—	—	4FHL2	—	—
2"-4-1/2	—	—	4FHL3	—	4FHT5
B7 Steel Zinc Yellow Finish					
¼"-20	19NM86	19NM87	4FHE6	4FHG1	4FHH1
¼"-28	—	—	4FHE7	—	—
5/16"-18	19NM88	19NM89	4FHE8	4FHG2	4FHH2
5/16"-24	—	—	4FHE9	—	—
⅜"-16	19NM90	19NM91	4FHF1	4FHG3	4FHH3
⅜"-24	—	—	4FHF2	—	4FHH4
7/16"-14	—	—	25DL43	—	—
7/16"-20	—	—	25DL47	—	—
½"-13	19NM92	19NM93	4FHF3	4FHG4	4FHH5
½"-20	—	—	4FHF4	4FHG5	—
9/16"-12	—	—	25DL44	—	—
9/16"-18	—	—	25DL48	—	—
⅝"-11	—	—	4FHF5	4FHG6	4FHH6
⅝"-18	—	—	4FHF6	4FHG7	—
¾"-10	19NM96	19NM97	4FHF7	4FHG8	4FHH7
¾"-16	—	—	4FHF8	—	—
⅞"-9	19NM98	—	25DL45	—	—
⅞"-14	—	—	25DL49	—	—
1"-8	19NN01	19NN02	4FHF9	4FHG9	4RDN8
1"-12	—	—	25DL50	—	—
1⅛"-7	—	10P708	19NN04	—	—
1⅛"-12	—	—	25DL51	—	—
1¼"-7	—	19NN06	19NN07	19NN08	—
1¼"-12	—	—	25DL52	—	—
1½"-6	—	—	25DL46	—	—
1½"-12	—	—	25DL53	—	—
Grade A Steel Hot Dipped Galvanized Finish					
⅜"-16	—	19NN42	19NT51	19NT52	19NN43
7/16"-14	—	—	25DL42	—	—
½"-13	—	19NN44	4FHC7	4FHD4	19NN45
9/16"-12	—	—	29DM69	—	—
⅝"-11	—	19NN46	4FHC8	4FHD5	19NN47
¾"-10	—	19NN48	4FHC9	4FHD6	19NN49
⅞"-9	—	19NN50	4FHD1	4FHD7	19NN51
1"-8	—	19NN52	4FHD2	4FHD8	19NN53
1⅛"-7	—	19NN54	29DM70	—	19NN55
1¼"-7	—	19NN56	4FHD3	4FHD9	19NN57
1⅜"-6	—	—	29DM71	—	—
1½"-6	—	10W636	19NN58	19NN59	10W639
1¾"-5	—	—	29DM72	—	—
2"-4-1/2	—	—	29DM73	—	—
Grade A Steel Plain Finish					
#2-56	—	19NP83	19NP84	19NP85	—
#3-48	—	—	19NP86	—	—
#4-40	—	19NP87	19NP88	19NP89	—
#5-40	—	19NP90	22P342	19NP91	—
#6-32	19NM36	19NP92	19NT25	19NP93	—
#8-32	19NM37	19NP94	4FGV7	19NP95	—
#10-24	19NM38	19NP96	19NT26	19NP97	22P351
#10-32	19NM39	19NR15	19NT27	29DM84	—
¼"-20	19NM40	4FGT4	4FGV8	4FGY5	19NM41
¼"-28	19NM70	19NT23	19NT28	4FGY6	22P375
5/16"-18	19NM42	4FGT5	4FGV9	4FGY7	19NM43
5/16"-24	19NM71	4FGT6	4FGW1	4FGY8	22P376
⅜"-16	19NM44	4FGT7	4FGW2	4FGY9	19NM45
⅜"-24	19NM72	19NT24	19NT29	4FGZ1	19NR16
7/16"-14	19NR02	4FGT8	4FGW3	4FGZ2	—
7/16"-20	19NR17	19NR18	4FGW4	4FGZ3	19NR19
½"-13	19NM46	4FGT9	4FGW5	4FGZ4	19NM47
½"-20	19NM73	4FGU1	4FGW6	4FGZ5	19NM74
9/16"-12	19NR05	19NR06	4FGW7	19NR07	19NR09
9/16"-18	19NR20	22P382	22P383	4FGZ6	—

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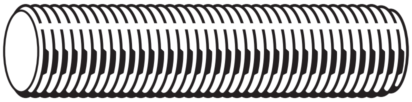
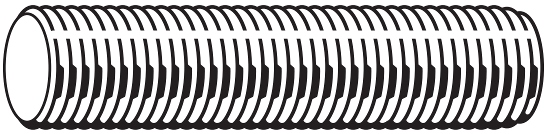


Threaded Rods

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
⅝"-11	19NM48	4FGU2	4FGW8	4FGZ7	19NM49
⅝"-18	19NM75	4FGU3	4FGW9	19NR21	19NN25
¾"-10	19NM50	4FGU4	4FGX1	4FGZ8	19NM51
¾"-16	19NN26	4FGU5	4FGX2	4FGZ9	19NN27
⅞"-9	19NM52	4FGU6	4FGX3	4FHA1	19NM54
⅞"-14	19NN28	19NR22	4FGX4	4FHA2	10W524
1"-8	19NM55	4FGU7	4FGX5	4FHA3	19NM57
1"-12	19NN29	22P388	19NR23	—	19NN30
1⅛"-7	19NM58	4FGU9	4FGX7	22P368	10P650
1⅛"-12	19NN31	4FGV1	4FGX8	22P390	19NN32
1¼"-7	19NM60	4FGV2	4FGX9	4FHA5	19NM62
1¼"-12	19NN33	4FGV3	4FGY1	4FHA6	19NN34
1⅜"-6	19NM63	19NR12	—	19NR14	10P656
1⅜"-12	10W533	10W534	10W535	10W536	10W537
1½"-6	19NM65	4FGV4	4FGY2	4FHA7	19NM67
1½"-12	19NN35	4FGV5	4FGY3	19NN36	10W542
1¾"-5	10P660	22P372	22P373	4FHA8	10P663
1¾"-12	22P391	22P392	22P393	19NN37	10W547
2"-4-1/2	19NM68	4FGV6	4FGY4	19NM69	10P667
2"-12	19NN38	19NN39	19NN40	19NN41	—
Grade A Steel Zinc Plated Finish					
#2-56	—	—	29DM75	29DM76	—
#4-40	—	19NR24	19NR25	29DM78	—
#5-40	—	19NR26	19NR27	29DM79	—
#6-32	29DM80	19NR28	19NT03	19NR29	—
#8-32	29DM81	19NR30	19NT04	19NR31	—
#10-24	19NL91	19NR32	19NT05	19NR33	—

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
#10-32	19NL92	19NR44	19NT06	29DM85	—
¼"-20	19NL93	4FGH4	4FGK3	4FGN6	19NL94
¼"-28	19NM22	19NR94	19NT07	19NT17	—
5⁄16"-18	19NL95	4FGH5	4FGK4	4FGN7	19NL96
5⁄16"-24	19NM23	19NR95	19NT08	19NT18	22P443
⅜"-16	19NL97	4FGH6	4FGK5	4FGN8	19NL98
⅜"-24	19NM24	19NR96	19NT09	19NT19	19NR46
7⁄16"-14	29DM83	4FGH7	4FGK6	4FGN9	—
7⁄16"-20	19NR47	19NR97	19NT10	19NT20	22P446
½"-13	19NL99	4FGH8	4FGK7	4FGP1	19NM01
½"-20	19NM25	4FGH9	4FGK8	4FGP2	19NR49
9⁄16"-12	19NR37	4FGJ1	4FGK9	4FGP3	22P428
9⁄16"-18	19NR50	19NR98	19NT11	19NR51	—
⅝"-11	19NM02	4FGJ2	4FGL1	4FGP4	19NM03
⅝"-18	19NM26	19NR99	19NT12	19NT21	19NR53
¾"-10	19NM04	4FGJ3	4FGL2	4FGP5	19NM05
¾"-16	19NM27	19NT01	19NT13	19NT22	22P454
⅞"-9	19NM06	4FGJ4	4FGL3	4FGP6	19NM07
⅞"-14	19NM28	22P455	19NT14	4FGP7	22P456
1"-8	19NM08	4FGJ5	4FGL4	4FGP8	19NM10
1"-12	19NM29	19NR54	19NR55	—	22P459
1⅛"-7	19NM11	4FGJ7	19NR40	4FGP9	19NM12
1⅛"-12	19NM30	19NR56	22P462	22P463	22P464
1¼"-7	19NM13	4FGJ8	4FGL5	4FGR1	19NM15
1¼"-12	19NM31	19NT02	19NT15	4RDE9	22P465
1⅜"-6	19NM16	4FGJ9	19NR42	22P434	10P594
1⅜"-12	19NM32	—	29DM86	19NM33	22P466

Dia./ Thread Size	1 ft. Length Item No.	2 ft. Length Item No.	3 ft. Length Item No.	6 ft. Length Item No.	12 ft. Length Item No.
1½"-6	19NM17	4FGK1	4FGL6	4FGR2	19NM18
1½"-12	19NM34	19NR57	19NT16	19NM35	—
1¾"-5	10P597	4FGK2	4FGL7	10P601	10P602
1¾"-12	10P623	—	—	10P624	22P468
2"-4-1/2	19NM19	19NM20	19NM21	10P606	10P607
Low Carbon Steel Hot Dipped Galvanized Finish					
½"-13	—	—	—	—	10W623
¾"-10	—	—	—	—	10W627
Low Carbon Steel Plain Finish					
1"-14	10W525	4FGU8	4FGX6	4FHA4	10W526
Low Carbon Steel Zinc Plated Finish					
5⁄16"-18	10P573	—	—	—	—
⅜"-16	—	—	—	4FGR4	10P576
½"-13	10P577	—	—	—	10P578
¾"-10	—	—	—	—	10P582
1"-14	10P616	4FGJ6	4RDD6	4RDE8	22P460
T6061 Aluminum Plain Finish					
#6-32	—	—	10P776	10P777	—
#10-24	—	—	10P778	10P779	—
#10-32	—	—	10P780	10P781	—
¼"-20	—	—	10P782	10P783	—
5⁄16"-18	—	—	10P784	10P785	—
⅜"-16	—	—	10P786	10P787	—
½"-13	—	—	10P788	10P789	—
⅝"-11	—	—	10P790	10P791	—
¾"-10	—	—	10P792	10P793	—



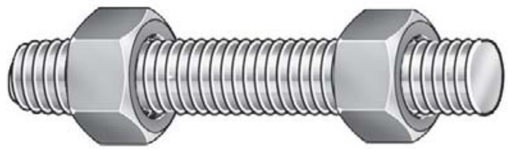
Nylon Fully Threaded Rods

- Class 2A to 2B threads
- Temp. range: -40° to 185°F
- Off-white color

Meet IFI standards.

Note: Metric and black nylon fully threaded rods are also available; on Grainger.com®, search for "black nylon fully threaded rods."

Dia./Thread Size	2 ft. Length Item No.	4 ft. Length Item No.	6 ft. Length Item No.	8 ft. Length Item No.
6/6 Nylon Plain Finish				
#4-40	2KA48	—	—	—
#6-32	—	2KA90	—	2KB66
#8-32	2KA54	—	—	—
#10-24	2KA57	—	—	—
#10-32	2KA60	—	—	—
¼"-20	2KA63	2KB12	2KB48	2KB74
5⁄16"-18	2KA66	2KB15	—	2KB76
⅜"-16	2KA69	2KB18	2KB52	2KB78
½"-13	2KA72	2KB21	2KB54	2KB80
⅝"-11	—	—	2KB56	2KB82
¾"-10	—	2KB27	2KB58	2KB84
⅞"-9	—	2KB30	—	—
1"-8	—	2KB33	—	2KB88



MAULDIN PRODUCTS MW Industries, Inc.

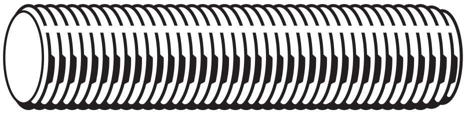
PTFE-Coated Fully Threaded Studs

- B7 alloy steel
- Tensile strength: 125,000 psi

Fluoropolymer coating prevents galling and seizing. Assembled with 2H hex nuts. Meet ASTM A193 standards.

Length	Item No.	Pkg. Qty.
½"-13 Thread Size		
2½"	4KFV6	4
2¾"	4KFV7	4
3"	4KFV8	4
3¼"	4KFV9	4
3½"	4KFW1	4
⅝"-11 Thread Size		
3"	4KFW2	4
3¼"	4KFW3	4
3½"	4KFW4	4
3¾"	4KFW5	4
4"	4KFW6	4
4¼"	4KFW7	4
4½"	4KFW8	4
5"	4KFW9	4
6"	4KFX1	4
¾"-10 Thread Size		
3¾"	4KFX2	4
4"	4KFX3	4
4¼"	4KFX4	4
4½"	4KFX5	4
4¾"	4KFX6	4
5"	4KFX7	4
5¼"	4KFX8	4
6"	4KFX9	4
6½"	4KFY1	4
7"	4KFY2	4
7½"	4KFY3	4

Length	Item No.	Pkg. Qty.
⅞"-9 Thread Size		
4½"	4KFY4	4
4¾"	4KFY5	4
5"	4KFY6	4
5¼"	4KFY7	4
5½"	4KFY8	4
6"	4KFY9	4
6¼"	4KFZ1	4
6½"	4KFZ2	4
7"	4KFZ3	4
8"	4KFZ4	4
1"-8 Thread Size		
5"	4KFZ5	4
5½"	4KFZ6	4
6"	4KFZ7	4
6¼"	4KFZ8	4
6½"	4KFZ9	4
6¾"	4KGA1	4
7"	4KGA2	4
7½"	4KGA3	4
1⅛"-8 Thread Size		
6¼"	4KGA4	4
6½"	4KGA5	4
6¾"	4KGA6	4
7"	4KGA7	8
7¼"	4KGA8	4
7½"	4KGA9	4
7¾"	4KGC1	4
8"	4KGC2	4
1¼"-8 Thread Size		
7"	4KGC3	4
8"	4KGC4	4
8½"	4KGC5	4
9"	4KGC6	4
9¼"	4KGC7	4
9½"	4KGC8	4
1⅜"-8 Thread Size		
9½"	4KGC9	4
10½"	4KGD1	4



Fully Threaded Studs

Precut rods eliminate the need for cutting or cleaning. Right-hand thread direction.

Note: Additional sizes, pack qty., and materials are available on Grainger.com®

Length	Material	Item No.	Pkg. Qty.
4-40 Thread Size			
½"	304 SS Plain	10U498	25
¾"	304 SS Plain	10U499	25
1"	304 SS Plain	10U501	25
1½"	304 SS Plain	10U502	25
2"	304 SS Plain	10U503	25
2½"	304 SS Plain	10U504	10
3"	304 SS Plain	10U505	10
6-32 Thread Size			
½"	Steel Zinc	10P859	100
	304 SS Plain	10U506	50
¾"	Steel Zinc	10P860	100
	304 SS Plain	10U507	50
1"	Steel Zinc	10P861	100
	304 SS Plain	10U508	50
1½"	Steel Zinc	10P862	100
	304 SS Plain	10U509	50
2"	Steel Zinc	10P863	100
	304 SS Plain	10U510	25
2½"	304 SS Plain	10U511	25
3"	304 SS Plain	4REA3	10
4"	304 SS Plain	4REA4	10
8-32 Thread Size			
½"	Steel Zinc	10P864	100
	316 SS Plain	21YN33	50
	304 SS Plain	10U512	50
¾"	Steel Zinc	10P865	100
	316 SS Plain	21YN34	50
	304 SS Plain	10U513	50
1"	Steel Zinc	10P866	100
	316 SS Plain	21YN27	50
	304 SS Plain	10U514	50
1½"	Steel Zinc	10P867	100
	304 SS Plain	10U515	25
2"	Steel Zinc	10P868	100
	316 SS Plain	21YN37	10
	304 SS Plain	10U516	10
2½"	Steel Zinc	10P869	50
	304 SS Plain	10U517	10
3"	Steel Zinc	4REL2	50
	304 SS Plain	4REA5	10
4"	304 SS Plain	4REA6	10
10-24 Thread Size			
½"	304 SS Plain	10U518	50
¾"	304 SS Plain	10U519	50
1"	Steel Zinc	10P870	100
	316 SS Plain	10U542	10
	304 SS Plain	10U520	50
1¼"	316 SS Plain	21YN39	25
	304 SS Plain	10U521	25
1½"	316 SS Plain	21YN46	10
	304 SS Plain	10U522	25
2"	Steel Zinc	10P871	100
	316 SS Plain	10U543	10
	304 SS Plain	10U523	10
2½"	Steel Zinc	10P872	50
	316 SS Plain	21YN45	10
	304 SS Plain	10U524	10
3"	Steel Zinc	4REL3	50
	316 SS Plain	10U544	10
	304 SS Plain	4REA7	10
4"	316 SS Plain	21YN22	10
	304 SS Plain	4REA8	10
10-32 Thread Size			
½"	Steel Plain	10P843	100
	Steel Zinc	10P873	100
	304 SS Plain	10U525	50
¾"	Steel Plain	10P844	100
	Steel Zinc	10P874	100
	316 SS Plain	10U545	10
	304 SS Plain	10U526	50
1"	Steel Plain	10P845	100
	Steel Zinc	10P875	100
	316 SS Plain	10U546	10
	304 SS Plain	10U527	50
1¼"	316 SS Plain	10U547	10
	304 SS Plain	10U528	25
1½"	Steel Plain	10P846	100
	Steel Zinc	10P876	100
	316 SS Plain	10U548	10
	304 SS Plain	10U529	25
2"	Steel Plain	10P847	100
	Steel Zinc	10P877	100
	316 SS Plain	10U549	10
	304 SS Plain	10U530	25
2½"	Steel Plain	10P848	50
	Steel Zinc	10P878	50
	304 SS Plain	10U531	10
3"	Steel Plain	4REV4	50
	316 SS Plain	21YN36	10
	304 SS Plain	4REA9	10
4"	Steel Zinc	4REL4	50
	Steel Plain	4REV5	25
	316 SS Plain	21YN18	10
	304 SS Plain	4REC1	10

Length	Material	Item No.	Pkg. Qty.
¼"-20 Thread Size			
¾"	Steel Plain	10P850	100
	Steel Zinc	10U487	100
	316 SS Plain	10U550	10
	304 SS Plain	10U533	50
⅞"	Steel Zinc	10U489	100
	304 SS Plain	10U534	50
1"	Steel Zinc	4REL5	100
	Steel Plain	4REV7	100
	316 SS Plain	4RDW9	10
	304 SS Plain	4REC2	50
1¼"	Steel Zinc	4REL6	100
	Steel Plain	4REV8	100
	316 SS Plain	4RDX1	10
	304 SS Plain	4REC3	25
1⅜"	304 SS Plain	21YN07	10
1½"	Steel Zinc	4REL7	100
	Steel Plain	4REV9	100
	316 SS Plain	4RDX2	10
	304 SS Plain	4REC4	10
1¾"	Steel Zinc	4REL8	100
	Steel Plain	4REW1	100
	304 SS Plain	4REC5	10
2"	Steel Zinc	4REL9	100
	Steel Plain	4REW2	100
	316 SS Plain	4RDX3	10
	304 SS Plain	4REC6	10
2¼"	316 SS Plain	21YN21	10
	304 SS Plain	4REC7	10
2½"	Steel Zinc	4REN2	100
	Steel Plain	4REW4	100
	316 SS Plain	21YN17	10
	304 SS Plain	4REC8	10
3"	Steel Zinc	4REN3	50
	Steel Plain	4REW6	50
	316 SS Plain	4RDX4	10
	304 SS Plain	4REC9	10
3½"	Steel Plain	4REW7	50
	304 SS Plain	4RED1	10
4"	Steel Zinc	4REN4	50
	Steel Plain	4REW8	50
	316 SS Plain	4RDX5	10
	304 SS Plain	4RED2	10
4½"	Steel Plain	4REW9	25
	304 SS Plain	4RED3	10
5"	Steel Zinc	4REN5	10
6"	Steel Zinc	4REN6	10
	Steel Plain	4REX1	10
	316 SS Plain	21YN10	10
	304 SS Plain	4RED4	10
¼"-28 Thread Size			
1"	Steel Plain	4REX2	50
1¼"	304 SS Plain	4RED5	5
1½"	Steel Plain	4REX3	50
	304 SS Plain	4RED6	5
2"	304 SS Plain	4RED7	5
5⁄16"-18 Thread Size			
¾"	Steel Plain	10P851	100
	Steel Zinc	10U490	100
	304 SS Plain	10U535	25
1"	Steel Zinc	4REN9	100
	Steel Plain	4REX5	100
	316 SS Plain	4RDX6	10
	304 SS Plain	4RED8	10
1¼"	Steel Zinc	4REP1	100
	Steel Plain	4REX6	100
	316 SS Plain	4RDX7	10
	304 SS Plain	4RED9	10
1½"	Steel Zinc	4REP2	50
	Steel Plain	4REX7	50
	316 SS Plain	4RDX8	10
	304 SS Plain	4REE1	10
1¾"	Steel Zinc	4REP3	50
	316 SS Plain	4RDX9	10
	304 SS Plain	21YN08	10
2"	Steel Zinc	4REP4	25
	Steel Plain	4REX8	25
	316 SS Plain	4RDY1	10
	304 SS Plain	4REE2	10
2¼"	Steel Zinc	4REP5	25
2½"	Steel Zinc	4REP6	25
	Steel Plain	4REX9	25
	304 SS Plain	4REE3	10
3"	Steel Zinc	4REP7	10
	Steel Plain	4REY1	10
	316 SS Plain	21YN23	5
	304 SS Plain	4REE4	5
3½"	Steel Plain	4REY2	10
	304 SS Plain	4REE5	5
4"	Steel Zinc	4REP8	10
	Steel Plain	4REY3	10
	316 SS Plain	21YN26	10
6"	Steel Zinc	4REP9	10
	304 SS Plain	4REE6	5

Length	Material	Item No.	Pkg. Qty.
5⁄16"-24 Thread Size			
1"	304 SS Plain	4REE7	5
1½"	304 SS Plain	4REE8	5
2"	304 SS Plain	4REE9	5
2½"	304 SS Plain	4REF1	5
⅜"-16 Thread Size			
¾"	Steel Plain	10P852	50
	Steel Zinc	10U491	50
	304 SS Plain	10U536	25
1"	Steel Zinc	4RER1	50
	Steel Plain	4REY4	50
	316 SS Plain	4RDY2	10
	304 SS Plain	4REF2	50
1¼"	Steel Zinc	4RER2	50
	Steel Plain	4REY5	50
	316 SS Plain	4RDY3	10
	304 SS Plain	4REF3	50
1½"	Steel Zinc	4RER3	25
	Steel Plain	4REY6	25
	316 SS Plain	4RDY4	10
	304 SS Plain	4REF4	25
1¾"	Steel Zinc	4RER4	25
	Steel Plain	4REY7	25
	316 SS Plain	4RDY5	10
	304 SS Plain	4REF5	10
2"	Steel Zinc	4RER5	25
	Steel Plain	4REY8	25
	316 SS Plain	4RDY6	10
	304 SS Plain	4REF6	10
2¼"	316 SS Plain	4RDY7	10
	304 SS Plain	4REF7	5
2½"	Steel Zinc	4RER6	25
	Steel Plain	4REY9	25
	316 SS Plain	4RDY8	10
	304 SS Plain	4REF8	5
3"	Steel Zinc	4RER7	25
	Steel Plain	4REZ1	25
	316 SS Plain	4RDY9	10
	304 SS Plain	4REF9	5
3½"	316 SS Plain	4RDZ1	10
4"	Steel Zinc	4RER8	10
	Steel Plain	4REZ2	10
	316 SS Plain	4RDZ2	10
	304 SS Plain	4REG1	5
5"	304 SS Plain	4REG2	5
6"	Steel Zinc	4RER9	5
	Steel Plain	4REZ3	5
	304 SS Plain	4REG3	5
⅜"-24 Thread Size			
1¼"	304 SS Plain	4REG5	5
1½"	Steel Plain	4REZ4	25
	304 SS Plain	4REG6	5
2"	304 SS Plain	4REG7	5
3"	Steel Plain	4REZ5	10
	304 SS Plain	4REG8	5
7⁄16"-14 Thread Size			
1½"	Steel Plain	4REZ6	10
2"	Steel Plain	4REZ7	10
½"-13 Thread Size			
1"	Steel Plain	4REZ8	25
1¼"	Steel Zinc	4RET1	25
	304 SS Plain	4REG9	10
1½"	Steel Zinc	4RET2	25
	Steel Plain	4UXD3	10
	316 SS Plain	4RDZ3	10
	304 SS Plain	4REH1	10
1¾"	304 SS Plain	4REH2	10
2"	Steel Plain	26LP50	250
	Steel Zinc	4RET3	10
	316 SS Plain	4RDZ4	10
	304 SS Plain	4REH3	10
2¼"	Steel Plain	26LT13	250
2½"	Steel Plain	26LT14	250
	Steel Zinc	4RET4	10
2¾"	Steel Plain	26LM81	200
3"	Steel Plain	26LT15	200
	Steel Zinc	4RET5	10
3¼"	Steel Plain	26LM83	200
3½"	Steel Plain	26LM84	200
	316 SS Plain	21YN19	5
	304 SS Plain	4REH6	5
3¾"	Steel Plain	26LM85	150
4"	Steel Plain	26LM86	150
	Steel Zinc	4RET6	10
4¼"	Steel Plain	26LP55	150
4½"	Steel Plain	1ZY34	4
4¾"	Steel Plain	1ZY36	4
5"	Steel Plain	1ZY38	4
	Steel Zinc	4RET7	5
	304 SS Plain	4REH9	5
5¼"	Steel Plain	1ZY40	4
5½"	Steel Plain	1ZY42	4
	304 SS Plain	4REJ1	5
5¾"	Steel Plain	1ZY44	4
6"	Steel Plain	1ZY46	4
	Steel Zinc	4RET8	5

Length	Material	Item No.	Pkg. Qty.
⅝"-11 Thread Size			
1½"	Steel Plain	4UXE2	25
2"	Steel Plain	26LK41	200
	304 SS Plain	4REJ4	5
2¼"	Steel Plain	26LK42	150
2½"	Steel Plain	26LM87	150
	Steel Zinc	4RET9	10
	316 SS Plain	21YN47	10
2¾"	Steel Plain	26LM88	150
3"	Steel Plain	26LM89	125
3¼"	Steel Plain	26LM90	125
3½"	Steel Plain	26LM91	100
3¾"	Steel Plain	26LM92	100
	Steel Plain	1ZY66	4
4"	Steel Plain	26LM93	100
	Steel Zinc	4REU3	5
4¼"	Steel Plain	26LM94	100
4½"	Steel Plain	26LM95	100
4¾"	Steel Plain	26LM96	75
5"	Steel Plain	26LP66	75
	Steel Zinc	4REU4	5
5¼"	Steel Plain	26LM97	75
5½"	Steel Plain	26LM98	75
5¾"	Steel Plain	26LM99	75
6"	Steel Plain	26LN01	50
¾"-10 Thread Size			
2"	Steel Plain	26LK52	125
2¼"	Steel Plain	26LN05	125
2½"	Steel Plain	26LK53	125
2¾"	Steel Plain	26LK54	100
3"	Steel Plain	26LN06	100
	304 SS Plain	4REK2	5
3¼"	Steel Plain	26LN07	100
3½"	Steel Plain	26LN08	75
3¾"	Steel Plain	26LP72	75
4"	Steel Plain	26LN09	75
4¼"	Steel Plain	26LN10	60
4½"	Steel Plain	26LN11	60
4¾"	Steel Plain	26LN12	60
5"	Steel Plain	26LN13	60
	316 SS Plain	21YN49	5
	304 SS Plain	4REK5	2
5¼"	Steel Plain	26LN14	50
5½"	Steel Plain	26LN15	50
5¾"	Steel Plain	26LN16	50
6"	Steel Plain	26LN17	50
	316 SS Plain	4REA1	2
	304 SS Plain	4REK6	2
6¼"	Steel Plain	22RU73	50
6¾"	Steel Plain	5CLY5	40
8½"	Steel Plain	5CLZ2	30
⅞"-9 Thread Size			
3"	Steel Plain	2AA69	4
	316 SS Plain	21YN52	5
	304 SS Plain	10U537	2
3¼"	Steel Plain	2AA71	4
3½"	Steel Plain	26LT38	60
3¾"	Steel Plain	26LP87	60
4"	Steel Plain	2AA77	4
	316 SS Plain	21YN53	5
	304 SS Plain	10U538	2
4¼"	Steel Plain	2AA79	4
4½"	Steel Plain	26LN35	50
4¾"	Steel Plain	26LP89	40
5"	Steel Plain	26LN36	40
5¼"	Steel Plain	26LN37	40
5½"	Steel Plain	26LN38	40
5¾"	Steel Plain	26LN39	40
6"	Steel Plain	26LN40	30
1"-8 Thread Size			
4"	Steel Plain	10P856	2
	316 SS Plain	10U551	2
	304 SS Plain	10U540	2
4¼"	Steel Plain	2AB38	4
4½"	Steel Plain	2AB40	4
4¾"	Steel Plain	2AB42	4
5"	Steel Plain	10P857	2
5¼"	Steel Plain	26LN52	30
5½"	Steel Plain	26LN53	30
5¾"	Steel Plain	2AB50	4
6"	Steel Plain	26LN54	25
	316 SS Plain	10U552	2
	304 SS Plain	10U541	2

Length	Material	Item No.	Pkg. Qty.
1⅛"-8 Thread Size			
4"	Steel Plain	26LR19	30
4¼"	Steel Plain	26LK80	30
4½"	Steel Plain	26LK81	30
4¾"	Steel Plain	26LK82	30
5"	Steel Plain	26LK83	25
5¼"	Steel Plain	26LK84	25
5½"	Steel Plain	26LK85	25
5¾"	Steel Plain	26LK86	20
6"	Steel Plain	26LN67	20
6¼"	Steel Plain	26LN68	20
6½"	Steel Plain	26LN69	20
6¾"	Steel Plain	26LN70	20
7"	Steel Plain	26LN71	20
7¼"	Steel Plain	26LN72	20
7½"	Steel Plain	26LN73	15
7¾"	Steel Plain	26LN74	15
8"	Steel Plain	26LN75	15
1¼"-8 Thread Size			
4½"	Steel Plain	26LL24	20
4¾"	Steel Plain	26LL25	20
5"	Steel Plain	26LL26	20
5¼"	Steel Plain	2AB98	4
5½"	Steel Plain	26LL27	20
5¾"	Steel Plain	26LP02	17
6"	Steel Plain	26LL28	17
6¼"	Steel Plain	26LL29	17
6½"	Steel Plain	26LL30	15
6¾"	Steel Plain	26LL31	15
7"	Steel Plain	26LL32	15
7¼"	Steel Plain	26LL33	15
7½"	Steel Plain	26LL34	15
7¾"	Steel Plain	26LL35	10
8"	Steel Plain	26LL36	10
1⅜"-8 Thread Size			
8½"	Steel Plain	26LL68	10
8¾"	Steel Plain	26LL69	10
9"	Steel Plain	26LL70	8
9¼"	Steel Plain	26LL71	8
9½"	Steel Plain	26LL72	8
9¾"	Steel Plain	26LL73	8
10"	Steel Plain	26LL74	8
1½"-8 Thread Size			
7"	Steel Plain	26LL86	10
7½"	Steel Plain	26LL87	10
7¾"	Steel Plain	26LP30	8
1⅝"-8 Thread Size			
10¼"	Steel Plain	26LM16	6
10½"	Steel Plain	26LM17	6
10¾"	Steel Plain	26LR78	6
1¾"-8 Thread Size			
9"	Steel Plain	26LM39	5
10½"	Steel Plain	26LM40	6
M6-1mm Thread Size			
25mm	Steel Plain	4UXF1	50
40mm	Steel Plain	4UXF2	25
50mm	Steel Plain	4UXF3	25
M8-1.25mm Thread Size			
25mm	Steel Plain	4UXF4	50
40mm	Steel Plain	4UXF5	25
M10-1.5mm Thread Size			
25mm	Steel Plain	4UXF6	25
40mm	Steel Plain	4UXF7	25
M12-1.75mm Thread Size			
1.5748"	304 SS Plain	21YN32	25
2.362"	304 SS Plain	21YN12	25
40mm	Steel Plain	4UXF8	25
50mm	Steel Plain	4UXF9	25
70mm	Steel Plain	4UXG1	10
	304 SS Plain	4REK8	5
80mm	Steel Plain	4UXG2	10
100mm	304 SS Plain	4REK9	5

36K190

36K209

Threaded Rod Hangers

- Heat-treated, case-hardened steel
- Zinc-plated for corrosion resistance

Hardened steel prevents snapping during installation or in high-stress environments 1-pc. design ensures a strong hold between screw and connector.

Notes: Nut drivers sold separately, this page.

Threaded rods are sold separately; see pages 2144, 2145.

SAMMYS®

UNC anchors can be used to hang threaded rod from wood, steel, concrete, and metal deck. Color-coded to make it easy to select the correct-size Sammys nut driver; sold separately, this page.

Sammy X-Press—Anchors expand upon installation to stay in place without a retaining nut, for use where the back of the installed fastener is not accessible. Install quickly with Sammy X-Press It Installation Tool 36C177, sold separately, this page.

DEWALT®

Wood and Steel hangers require no pre-drilling. Wood hangers have a Type 17 gimlet to help reduce splitting. Concrete hangers 54PD63, 54PD64, and 54PD65 are internally threaded; 54PD61 and 54PD62 have external ⅜" thread for direct attachment to anchors.

STRONG-TIE®

Install quickly with no special installation tools. Hanger anchor 4XFX3 is designed for hanging installations. Coupler anchor 4XFW8 is designed for concrete foundations.

ROD HANGER DRIVERS AND EXTENSION ROD

Sammys® drivers are color-coded by size for quick selection on the job.

Rod Size	Shank Length	Screw Size	Head Dia.	Nut Driver	Brand	Item No.	Pkg. Qty.
Wood and Timber							
Horizontal Hangers							
⅜"-16	1 in	¼ in	⅝ in	#14 SW Red	Sammys	**36K201**	25
	2 in	¼ in	⅝ in	#14 SW Red	Sammys	**36K202**	25
	3 in	¼ in	⅝ in	#14 SW Red	Sammys	**36K204**	25
¼"-20	1 in	¼ in	⅜ in	—	DeWalt	**54PD93**	25
⅜"-16	1 in	¼ in	½ in	—	DeWalt	**54PD94**	25
	2 in	¼ in	½ in	—	DeWalt	**54PD86**	25
	2 ½ in	5⁄16 in	½ in	—	DeWalt	**54PD95**	25
Swivel Hangers							
⅜"-16	2 ¼ in	5⁄16 in	⅝ in	#14 SH Orange	Sammys	**36K190**	25
3⁄16 in	3 in	¼ in	—	—	DeWalt	**54PD92**	25
Vertical Hangers							
¼"-20	2 in	¼ in	⅝ in	#14 Black	Sammys	**36K185**	25
⅜"-16	1 in	¼ in	⅝ in	#14 Black	Sammys	**36K182**	25
	2 in	¼ in	⅝ in	#14 Black	Sammys	**36K184**	25
	3 in	¼ in	⅝ in	#14 Black	Sammys	**36K187**	25
½"-13	2 in	¼ in	⅝ in	#14 SW Red	Sammys	**36K183**	25
	3 in	¼ in	⅝ in	#14 SW Red	Sammys	**36K186**	25
	2 ½ in	5⁄16 in	11⁄16 in	—	DeWalt	**54PD91**	25
¼"-20	2 in	¼ in	⅜ in	—	DeWalt	**54PD87**	25
⅜"-16	2 ½ in	5⁄16 in	½ in	—	DeWalt	**54PD90**	25
	1 in	¼ in	½ in	—	DeWalt	**54PD89**	25
	2 in	¼ in	½ in	—	DeWalt	**54PD85**	25
	3 in	¼ in	⅜ in	—	DeWalt	**54PD88**	25
	4 in	¼ in	½ in	—	DeWalt	**54PD96**	25
Wood							
Horizontal Hangers							
⅜"-16	2 ¼ in	5⁄16 in	½ in	—	DeWalt	**448L03**	25
Swivel Hangers							
⅜"-16	2 in	¼ in	½ in	—	DeWalt	**448L04**	25
Steel Purlin							
Horizontal Hangers							
⅜"-16	1 ½ in	—	⅝ in	36C177	Sammys	**36K205**	25
	1 ½ in	—	⅝ in	36C177	Sammys	**36K209**	25
½"-13	1 ½ in	—	⅝ in	36C177	Sammys	**36K208**	25
⅜"-16	1 in	¼"-20	½ in	—	DeWalt	**54PD68**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD72**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD76**	25
	1 in	¼"-20	½ in	—	DeWalt	**54PD77**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD78**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD79**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD80**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD81**	25
	1 in	¼"-20	½ in	—	DeWalt	**54PD82**	25
Swivel Hangers							
3⁄16 in	2 in	¼ in	—	—	DeWalt	**54PD83**	25
	3 ¼ in	¼ in	—	—	DeWalt	**54PD84**	25
Vertical Hangers							
⅜"-16	1 ½ in	—	⅝ in	36C177	Sammys	**36K215**	25
¼"-20	1 in	¼"-20	⅜ in	—	DeWalt	**54PD66**	25
⅜"-16	1 in	¼"-20	½ in	—	DeWalt	**54PD67**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD69**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD70**	25
	1 in	¼"-20	½ in	—	DeWalt	**54PD73**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD74**	25
	1 ½ in	¼"-20	½ in	—	DeWalt	**54PD75**	25
	2 in	¼"-20	½ in	—	DeWalt	**54PD71**	25

Rod Size	Shank Length	Screw Size	Head Dia.	Nut Driver	Brand	Item No.	Pkg. Qty.
Steel Deck							
Horizontal Hangers							
½"-13	1 ½ in	—	⅝ in	36C177	Sammys	**36K206**	25
Vertical Hangers							
¼"-20	1 ½ in	—	⅝ in	36C177	Sammys	**36K214**	25
⅜"-16	1 ½ in	—	⅝ in	36C177	Sammys	**36K213**	25
Steel							
Horizontal Hangers							
⅜"-16	1 ½ in	#12-24	⅝ in	#14 SW Red	Sammys	**36K198**	25
	1 in	¼"-14	⅝ in	#14 SW Red	Sammys	**36K195**	25
	1 ¼ in	5⁄16"-18	⅝ in	#14 SW Red	Sammys	**36K199**	25
	2 in	¼"-14	⅝ in	#14 SW Red	Sammys	**36K196**	25
Swivel Hangers							
⅜"-16	1 ¾ in	#12-24	½ in	—	DeWalt	**448L01**	25
	1 in	¼ in	½ in	—	DeWalt	**448K99**	25
	1 in	¼ in	½ in	—	DeWalt	**448L02**	25
	2 ¼ in	#12-24	⅝ in	#14 SH Orange	Sammys	**36K191**	25
Vertical Hangers							
¼"-20	1 in	¼"-14	⅝ in	#14 Black	Sammys	**36K174**	25
⅜"-16	1 ½ in	#12-24	⅝ in	#14 Black	Sammys	**36K179**	25
	1 ½ in	#12-24	⅝ in	#14 Black	Sammys	**36K211**	25
	1 in	¼"-14	⅝ in	#14 Black	Sammys	**36K173**	25
	1 in	¼"-20	⅝ in	#14 Black	Sammys	**36K177**	25
	1 in	¼"-20	⅝ in	#14 Black	Sammys	**36K188**	25
	1 ¼ in	5⁄16"-18	⅝ in	#14 Black	Sammys	**36K176**	25
	1 ¼ in	5⁄16"-18	⅝ in	#14 Black	Sammys	**36K181**	25
	2 in	¼"-14	⅝ in	#14 Black	Sammys	**36K175**	25
	2 in	¼"-10	⅝ in	#14 Black	Sammys	**36K189**	25
Concrete							
Horizontal Hangers							
⅜"-16	2 ¼ in	5⁄16 in	½ in	—	DeWalt	**448K97**	25
	1 ¾ in	5⁄16 in	⅝ in	#14 SW Red	Sammys	**36K193**	25
Swivel Hangers							
⅜"-16	2 in	¼ in	½ in	—	DeWalt	**448K98**	25
Vertical Hangers							
¼"-20	3 ⅜ in	¼"-20	¼ in	—	DeWalt	**416K61**	100
⅜"-16	3 ⅜ in	⅜"-16	⅜ in	—	DeWalt	**416K62**	100
½"-13, ⅜"-16	3 ⅜ in	½"-13, ⅜"-16	⅜ in	—	DeWalt	**416K63**	100
½"-13	3 ⅜ in	½"-13	½ in	—	DeWalt	**416K64**	100
⅝"-11	3 ⅜ in	⅝"-11	⅝ in	—	DeWalt	**416K65**	50
¾"-10	3 ⅜ in	¾"-10	¾ in	—	DeWalt	**416K66**	50
¼"-20	1 ¾ in	5⁄16 in	⅝ in	#14 Black	Sammys	**36K172**	25
⅜"-16	1 ¾ in	5⁄16 in	⅝ in	#14 Black	Sammys	**36K171**	25
	3 in	¼ in	⅝ in	#14 Black	Sammys	**36K192**	25
	6 ¾ in	⅜ in	9⁄16 in	—	Strong-Tie	**4XFW8**	25
½"-13	1 ¾ in	5⁄16 in	⅝ in	#14 SW Red	Sammys	**36K170**	25
	2 ¾ in	½ in	11⁄16 in	—	Strong-Tie	**4XFX3**	50
¼"-20	1 ⅝ in	¼ in	⅜ in	—	DeWalt	**54PD63**	25
⅜"-16	1 ⅝ in	¼ in	½ in	—	DeWalt	**54PD64**	25
	1 ⅝ in	¼ in	½ in	—	DeWalt	**54PD61**	25
	2 ½ in	¼ in	½ in	—	DeWalt	**54PD65**	25
	2 ½ in	¼ in	½ in	—	DeWalt	**54PD62**	25

Description	Brand	Mfr. Model	Item No.
Rod Hanger Drivers			
Sammys® Nut Drivers, #14 Black	Sammys	8113910	**36C173**
Sammys® Nut Drivers, #14 SW Red	Sammys	8114910	**36C175**
Sammys® Nut Drivers, #14 SH Orange	Sammys	8273910	**36C174**
Sammy X Press Installation Tool	Sammys	8194910	**36C177**
Hangermate®+ Pivot Driver	DeWalt	PFM2201250	**54PD97**
Hangermate+ ¼" Socket Driver Concrete Rod Hanger	DeWalt	PFM1491050	**54PD98**
Hangermate+ ⅜" Socket Driver Concrete Rod Hangers Black	DeWalt	PFM1491100	**54PD99**
Hangermate+ Adapter for Hanging ½" Rod (⅜" to ½" Adapter) Silver	DeWalt	PFM2201050	**54PE02**
Hangermate+ Steel Socket Rod Hangers Silver	DeWalt	PFM2201200	**54PE03**
Hangermate+ Suspender Driver Hangers Silver	DeWalt	PFM2201300	**54PE04**
Hangermate+ Acoustical Ceiling Screw Eyelets Driver Silver	DeWalt	PFM2201350	**54PE05**
DEWALT® Hangermate Wood Socket Driver Rod Hangers Red	DeWalt	PFM2201150	**54TU04**
Rod Hanger Driver Kits			
Concrete Installation Kit, Includes #14 Black Nut Driver, #14 SW Red Nut Driver, #250 Bit (¼ in), 7⁄32 Wood Bit, Hex 250 Bit Receiver (¼ in), SL 250 Sleeve	Sammys	8122910	**36C176**
Rod Hanger Anchor Pole Tool Kit, Includes (3) Conduit Connectors, Hex Wrench, Replacement Cut Point Set Screw	DeWalt	PFM2201100	**54TU03**

Male/Female Hex Standoffs

- Pkg. quantity: 10

Note: 18-8 stainless steel, zinc-plated steel, zinc-plated brass, and nickel-plated brass standoffs available on Grainger.com®; search for "male/female hex standoffs."

Tolerance
+/-0.005 On Dimensions Thru 0.625
+/-0.008 On Dimensions 0.625 Thru 1.000
+/-0.010 On Dimensions 1.001 Thru 1.500
+/-0.010 On Dimensions Larger Than 1.500

Length	Screw Size	Thread Length	Item No.
Aluminum			
3/16 in Hex Width			
½"	4-40	¼ in	6MZR9
1"	4-40	½ in	6MZT1
1½"	4-40	¾ in	6MZT2
¼ in Hex Width			
½"	4-40	¼ in	6MZT4
	6-32	¼ in	6MZU4
¾"	4-40	⅜ in	6MZT5
	6-32	⅜ in	6MZU6
	8-32	⅜ in	6NZX1
1"	4-40	½ in	6MZT6
	6-32	¼ in	6MZU8
	8-32	½ in	6NZX2
1¼"	4-40	⅝ in	6MZT7
	6-32	⅝ in	6MZU9
	8-32	⅝ in	6NZX3
1½"	4-40	¾ in	6MZT8
	6-32	¾ in	6NZW4
	8-32	¾ in	6NZX4
1¾"	6-32	⅞ in	6NZW5
2"	4-40	1 in	6MZU0
	6-32	1 in	6NZW6
	8-32	1 in	6NZX5
2½"	4-40	1 ¼ in	6MZU1
	6-32	1 ¼ in	6NZW7
	8-32	1 ¼ in	6NZX6
3"	4-40	1 ½ in	6MZU2
	6-32	1 ½ in	6NZW8
	8-32	⅜ in	6NZX7
4"	4-40	2 in	6MZU3
	6-32	2 in	6NZW9
	8-32	⅜ in	6NZX8
5/16 in Hex Width			
1"	10-32	½ in	6NZX9
1¼"	10-32	½ in	6NZY0
1½"	10-32	½ in	6NZY1
2"	10-32	½ in	6NZY2
2½"	10-32	⅜ in	6NZY3
⅜ in Hex Width			
1"	10-32	½ in	6NZY5
2"	10-32	1 in	6NZY6
3"	8-32	1 ½ in	6NZY4
4"	10-32	2 in	6NZY7
½ in Hex Width			
1½"	¼-20	¾ in	6NZY8
2"	¼-20	½ in	6NZY9
4"	¼-20	2 in	6NZZ0
Nylon, Black			
¼ in Hex Width			
¾"	#6-32	¼ in	3XYN7
Nylon, Natural			
¼ in Hex Width			
½"	#4-40	3/16 in	3XYF6
	#6-32	¼ in	3XYH8
⅝"	#4-40	3/16 in	3XYG5
¾"	#6-32	¼ in	3XYJ3
1"	#4-40	3/16 in	3XYF4
	#6-32	¼ in	3XYH7
	#8-32	⅜ in	3XYK1 *
1½"	#4-40	3/16 in	3XYF9
	#6-32	¼ in	3XYJ1
2"	#4-40	3/16 in	3XYP2
	#6-32	¼ in	3XYP5
	#8-32	⅜ in	3XYP7
2½"	#4-40	3/16 in	3XYE9
	#6-32	¼ in	3XYH2
	#8-32	⅜ in	3XYJ9
3"	#8-32	⅜ in	3XYJ8

** Female thread depth is 17/64"*

Female Hex Standoffs

Note: 18-8 stainless steel, zinc-plated steel, and zinc-plated brass standoffs also available on Grainger.com; search for "female hex standoffs."

Note: Bulk packaging is also available on Grainger.com; search for "bulk hex standoffs."

Nylon Tolerance
+/-0.005 On Dimensions Thru 0.625
+/-0.008 On Dimensions 0.625 Thru 1.000
+/-0.010 On Dimensions 1.001 Thru 1.500
+/-0.010 On Dimensions Larger Than 1.500

Length	Screw Size	Thread Length	Item No.
Aluminum			
3/16 in Hex Width			
3/16"	#4-40	3/16 in	6MZG1
¼"	#4-40	¼ in	6MZG2
⅜"	#4-40	3/16 in	6MZN6
½"	#4-40	½ in	6MZG3
⅝"	#4-40	⅝ in	6MZG4
¾"	#4-40	¾ in	6MZG5
⅞"	#4-40	⅞ in	6MZG6
1"	#4-40	1 in	6MZG7
¼ in Hex Width			
3/16"	#4-40	3/16 in	6MZG9
¼"	#4-40	¼ in	6MZH2
	#6-32	¼ in	6MZH3
⅜"	#4-40	⅜ in	6MZH6
	#6-32	⅜ in	6MZH7
7/16"	#4-40	7/16 in	6MZH9
½"	#4-40	½ in	6MZJ1
	#6-32	½ in	6MZJ2
	#8-32	½ in	6MZJ3
⅝"	#6-32	⅝ in	6MZJ5
¾"	#4-40	¾ in	6MZJ7
	#6-32	¾ in	6MZJ8
	#8-32	¾ in	6MZJ9
1"	#4-40	1 in	6MZK1
	#6-32	1 in	6MZK2
	#8-32	1 in	6MZK3
1¼"	#4-40	¼ in	6MZN8
	#6-32	⅜ in	6MZN9
	#8-32	7/16 in	6MZP0
1½"	#6-32	⅜ in	6MZP1
	#8-32	7/16 in	6MZP2
2"	#4-40	¼ in	6MZP3
	#6-32	⅜ in	6MZP4
	#8-32	7/16 in	6MZP5
5/16 in Hex Width			
½"	#10-32	½ in	6MZK4
¾"	#10-32	¾ in	6MZK6
1"	#10-32	1 in	6MZK7
1¼"	#10-32	½ in	6MZP6
1½"	#10-32	½ in	6MZP7
2"	#10-32	½ in	6MZP8
⅜ in Hex Width			
½"	#10-32	½ in	6MZL1
⅝"	#10-32	⅝ in	6MZL2
¾"	#10-32	¾ in	6MZL4
1"	#10-32	1 in	6MZL6
1½"	#10-32	½ in	6MZP9
2"	#8-32	7/16 in	6MZR0
	#10-32	½ in	6MZR1
½ in Hex Width			
½"	¼-20	½ in	6MZL7
¾"	¼-20	¾ in	6MZL8
⅞"	¼-20	⅞ in	6MZL9
1"	¼-20	1 in	6MZN0
1½"	¼-20	⅝ in	6MZR2
2"	¼-20	⅝ in	6MZR3
2½"	#10-32	½ in	6MZR4
	¼-20	⅝ in	6MZR5
3"	#10-32	½ in	6MZR6
	¼-20	⅝ in	6MZR7
4"	#10-32	½ in	6MZR8
Nylon, Black			
¼ in Hex Width			
¼"	#6-32	¼ in	3XYL7
½"	#6-32	½ in	3XYL5
1"	#8-32	⅜ in	3XYN2
Nylon, Natural			
3/16 in Hex Width			
½"	#4-40	½ in	3XYF2
9/16"	#2-56	9/16 in	3XYE8
¼ in Hex Width			
¼"	#4-40	¼ in	3XYF5
½"	#4-40	½ in	3XYF3
⅝"	#6-32	⅝ in	3XYJ5
¾"	#6-32	⅜ in	3XYH9
	#8-32	⅜ in	3XYK3
1"	#4-40	⅜ in	3XYP3
	#6-32	⅜ in	3XYP4
1¼"	#6-32	⅜ in	3XYH3
1⅜"	#4-40	⅜ in	3XYF1

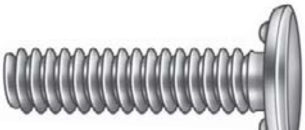
Weld Studs

All studs have right-hand thread direction. Steel material.

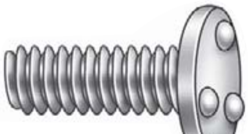
Bottom Projection—Styles offer a smooth, finished appearance on the outer surface.

Top Projection—Styles can be assembled into a prelocated hole.

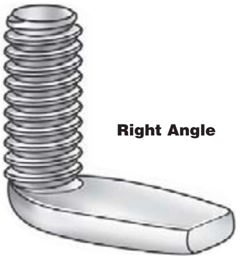
Right Angle—Flat spade head style allows the installer to use various sizes of electrode tips and can be used when an offset is required.



Bottom Projection



Top Projection



Right Angle

Thread Size	Length under Head	Head Dia.	Head Height	Item No.	Pkg. Qty.
Bottom Projection					
8-32	1"	0.375"	0.063"	1LAK7	100
10-24	⅜"	0.438"	0.063"	1LAK8	100
	½"	0.438"	0.063"	1LAK9	100
10-32	⅝"	0.438"	0.063"	1LAL3	100
	1"	0.438"	0.063"	1LAL4	100
¼"-20	¾"	0.563"	0.078"	1LAL8	100
	1"	0.563"	0.078"	1LAN1	100
	1¼"	0.563"	0.078"	1LAN2	100
5/16"-18	¾"	0.740"	0.094"	1LAN4	100
	1"	0.740"	0.094"	1LAN5	100
	2"	0.740"	0.094"	1LAN6	100
⅜"-16	1"	0.865"	0.109"	1LAN7	100
	1¼"	0.865"	0.109"	1LAN8	100
½"-13	1¼"	0.990"	0.141"	1LAN9	100
Top Projection					
10-24	7/16"	0.375"	0.063"	1LAP1	100
¼"-20	27/64"	0.498"	0.078"	1LAP2	100
	43/64"	0.498"	0.078"	1LAP3	100
5/16"-18	21/32"	0.618"	0.094"	1LAP4	100

Thread Size	Thread Length	Spade Length	Spade Width	Spade Height	Item No.	Pkg. Qty.
Right Angle						
¼"-20	0.531"	¾"	⅜"	3/32"	1LAR4	25
	0.656"	¾"	⅜"	3/32"	1LAR5	25
	0.906"	¾"	⅜"	3/32"	1LAR6	25

Individual Fasteners Assortments—Spacer

- I.D. tolerance: ±0.010"
- O.D. tolerance: ±0.010"
- Length tolerance:±0.010"

Inside Dia.	Outside Dia.	Length	Item No.
Spacer Assortments, Includes all Refills			
30-Pc., Low Carbon Steel, Chrome Finish			**4GUX6**
Spacer Refills for 4GUX6, Pkg. 5			
0.47 in	⅞ in	1½"	**4GVD9**
	⅞ in	2"	**4GVE1**
	⅞ in	2½"	**4GVE2**
0.53 in	1 in	2"	**4GVE3**
	1 in	2½"	**4GVE4**
	1 in	3"	**4GVE5**

Inside Dia.	Outside Dia.	Length	Item No.
Spacer Assortments, Includes all Refills			
90-Pc., Low Carbon Steel, Chrome Finish			**2FUH6**
Spacer Refills for 2FUH6, Pkg. 5			
0.281 in	⅝ in	⅛"	**2FUH2**
	⅝ in	¼"	**2JGG1**
	⅝ in	⅜"	**2FUT7**
	⅝ in	½"	**2FUL9**
	⅝ in	¾"	**2FUD3**
	⅝ in	1"	**2JGG2**
0.344 in	⅝ in	⅛"	**2FUH3**
	⅝ in	¼"	**2FUT8**
	⅝ in	⅜"	**2FUN1**
	⅝ in	½"	**2FUH4**
	⅝ in	¾"	**2FUB5**
	⅝ in	1"	**2FUP8**
0.406 in	¾ in	⅛"	**2FUT9**
	¾ in	¼"	**2FUN2**
	¾ in	⅜"	**2FUF6**
	¾ in	½"	**2JGG3**
	¾ in	¾"	**2JGG4**
	¾ in	1"	**2FUF7**

2FUH6

Round Spacers

- Pkg. qty.: 10

Note: Do not use as precision bearings or shafts, or as high-precision jacking or adjusting devices. Bulk packaging also available; on Grainger.com®, search for "bulk round spacers."

Length	Screw Size	Inside Dia.	Item No.
Aluminum			
¼ in Outside Dia.			
⅛"	#4	0.115 in	**6MYP2**
	#6	0.14 in	**6MYP3**
	#8	0.166 in	**6MYP4**
¼"	#6	0.14 in	**6MYP9**
	#8	0.166 in	**6MYR0**
5⁄16"	#6	0.14 in	**6MYR2**
⅜"	#8	0.166 in	**6MYR4**
½"	#4	0.115 in	**6MYR7**
	#8	0.166 in	**6MYR9**
¾"	#4	0.115 in	**6MYT3**
	#8	0.166 in	**6MYT5**
1"	#4	0.115 in	**6MYT6**
	#8	0.166 in	**6MYT8**
1¼"	#8	0.166 in	**6MYT9**
1½"	#6	0.14 in	**6MYU0**
	#8	0.166 in	**6MYU1**
5⁄16 in Outside Dia.			
¼"	#10	0.192 in	**6MYU6**
½"	#10	0.192 in	**6MYV2**
9⁄16"	#10	0.192 in	**6MYV3**
¾"	#10	0.192 in	**6MYV4**
1"	#10	0.192 in	**6MYV5**
1¼"	#10	0.192 in	**6MYV6**
1½"	#10	0.192 in	**6MYV7**
⅜ in Outside Dia.			
3⁄16"	#10	0.192 in	**6MYV8**
¼"	#10	0.192 in	**6MYW0**
5⁄16"	#8	0.166 in	**6MYW1**
⅜"	#10	0.192 in	**6MYW2**
7⁄16"	#10	0.192 in	**6MYW3**
½"	#10	0.192 in	**6MYW5**
	#12	0.218 in	**6MYW6**
⅝"	#10	0.192 in	**6MYW8**
	#12	0.218 in	**6MYW9**
¾"	#10	0.192 in	**6MYX0**
1"	#10	0.192 in	**6MYX2**
1¼"	#10	0.192 in	**6MYX3**
½ in Outside Dia.			
3⁄16"	¼"	0.252 in	**6MYX4**
¼"	#10	0.192 in	**6MYX5**
	¼"	0.252 in	**6MYX6**
5⁄16"	¼"	0.252 in	**6MYX7**
⅜"	#8	0.166 in	**6MYX8**
	¼"	0.252 in	**6MYX9**
½"	¼"	0.252 in	**6MYY1**
⅝"	#10	0.192 in	**6MYY2**
	¼"	0.252 in	**6MYY3**
¾"	#10	0.192 in	**6MYY4**
	¼"	0.252 in	**6MYY5**
⅞"	¼"	0.252 in	**6MYY6**
1"	#8	0.166 in	**6MYY7**
	#10	0.192 in	**6MYY8**
	¼"	0.252 in	**6MYY9**
1¼"	¼"	0.252 in	**6MYZ0**
1½"	#10	0.192 in	**6MYZ1**
	¼"	0.252 in	**6MYZ2**

Length	Screw Size	Inside Dia.	Item No.
⅝ in Outside Dia.			
¼"	¼"	0.252 in	**6MYZ3**
⅜"	¼"	0.252 in	**6MYZ4**
½"	¼"	0.252 in	**6MYZ5**
1½"	¼"	0.252 in	**6MYZ6**
¾ in Outside Dia.			
¼"	⅜"	0.38 in	**6MYZ8**
	5⁄16"	0.315 in	**6MYZ7**
⅜"	⅜"	0.38 in	**6MZA0**
	5⁄16"	0.315 in	**6MYZ9**
½"	⅜"	0.38 in	**6MZA2**
	5⁄16"	0.315 in	**6MZA1**
⅝"	⅜"	0.38 in	**6MZA4**
	5⁄16"	0.315 in	**6MZA3**
¾"	⅜"	0.38 in	**6MZA6**
	5⁄16"	0.315 in	**6MZA5**
⅞"	⅜"	0.38 in	**6MZA8**
	5⁄16"	0.315 in	**6MZA7**
1"	⅜"	0.38 in	**6MZC0**
	5⁄16"	0.315 in	**6MZA9**
1¼"	⅜"	0.38 in	**6MZC1**
1½"	⅜"	0.38 in	**6MZC3**
	5⁄16"	0.315 in	**6MZC2**
2"	⅜"	0.38 in	**6MZC5**
	5⁄16"	0.315 in	**6MZC4**
1 in Outside Dia.			
⅜"	½"	0.505 in	**6MZC6**
½"	½"	0.505 in	**6MZC7**
	⅝"	0.63 in	**6MZC8**
¾"	½"	0.505 in	**6MZC9**
Nylon			
3⁄16 in Outside Dia.			
⅛"	#4	0.115 in	**3YAE8**
⅜"	#4	0.115 in	**3YAF7**
¼ in Outside Dia.			
¼"	#6	0.14 in	**3ZMA8**
	#8	0.171 in	**3ZMG9**
½"	#6	0.14 in	**3ZMA2**
	#8	0.171 in	**3ZMG4**
¾"	#4	0.115 in	**3YAF6**
	#6	0.14 in	**3ZMD3**
1"	#8	0.171 in	**3ZMF7**
1¼"	#6	0.14 in	**3XZJ5**
5⁄16 in Outside Dia.			
⅜"	#6	0.14 in	**3ZMD8**
¾"	#10	0.194 in	**3XZV4**
1¼"	#10	0.194 in	**3XZC9**
1½"	#10	0.194 in	**3XZC7**
½ in Outside Dia.			
¼"	#10	0.194 in	**3XZT5**
	¼-20	0.26 in	**3XYY8**
⅜"	#10	0.194 in	**3XZW7**
	¼-20	0.257 in	**3XZA1**
½"	#10	0.194 in	**3XZT1**
	¼-20	0.257 in	**3XYY6**
⅝"	¼-20	0.257 in	**3XZA5**
¾"	¼-20	0.26 in	**3XYZ8**
⅞"	¼-20	0.26 in	**3XZA9**
1"	#10	0.194 in	**3XZP6**
	#12	0.219 in	**3XZZ1**
	¼-20	0.257 in	**3XZN4**

Round Standoff

Round Standoff Cap

Standoffs and Standoff Caps

- Tensile strength: 80,000 psi (18-8 stainless steel); 55,000 psi (aluminum)
- Pkg. qty.: 2

Screw Size	Dia./ Square	Length	Thread Depth	ALUMINUM, CLEAR ANODIZED Item No.	ALUMINUM, BLACK ANODIZED Item No.	18-8 STAINLESS STEEL, BRITE2 Item No.	18-8 STAINLESS STEEL, SATIN Item No.
Standoff							
10-24	⅜ in	¼"	¼ in	**5GHJ8**	**5GHK7**	**5GHL6**	**5GHN5**
		½"	½ in	**5GHJ9**	**5GHK8**	**5GHL7**	**5GHN6**
		¾"	¾ in	**5GHK0**	**5GHK9**	**5GHL8**	**5GHN7**
		1"	1 in	**5GHK1**	**5GHL0**	**5GHL9**	**5GHN8**
		1½"	½ in	**5GHK3**	**5GHL2**	**5GHN1**	**5GHP0**
		2"	¾ in	**5GHK4**	**5GHL3**	**5GHN2**	**5GHP1**
		3"	¾ in	**5GHK5**	**5GHL4**	**5GHN3**	**5GHP2**
		4"	¾ in	**5GHK6**	**5GHL5**	**5GHN4**	**5GHP3**
¼-20	½ in	¼"	¼ in	**5GHT2**	**5GHU1**	**5GHV0**	**5GHV9**
		½"	½ in	**5GHT3**	**5GHU2**	**5GHV1**	**5GHW0**
		¾"	¾ in	**5GHT4**	**5GHU3**	**5GHV2**	**5GHW1**
		1"	1 in	**5GHT5**	**5GHU4**	**5GHV3**	**5GHW2**
		1¼"	½ in	**5GHT6**	**5GHU5**	**5GHV4**	**5GHW3**
		1½"	½ in	**5GHT7**	**5GHU6**	**5GHV5**	**5GHW4**
		2"	¾ in	**5GHT8**	**5GHU7**	**5GHV6**	**5GHW5**
		3"	¾ in	**5GHT9**	**5GHU8**	**5GHV7**	**5GHW6**
		4"	¾ in	**5GHU0**	**5GHU9**	**5GHV8**	**5GHW7**
5⁄16-18	⅝ in	½"	½ in	**5GHY7**	**5GHZ6**	**5GJA5**	**5GJC4**
		1"	1 in	**5GHY9**	**5GHZ8**	**5GJA7**	**5GJC6**
		1¼"	½ in	**5GHZ0**	**5GHZ9**	**5GJA8**	**5GJC7**
		2"	¾ in	**5GHZ2**	**5GJA1**	**5GJC0**	**5GJC9**
		3"	¾ in	**5GHZ3**	**5GJA2**	**5GJC1**	**5GJD0**
	¾ in	½"	½ in	**5GNK3**	**5GNL2**	**5GNN1**	**5GNP0**
		¾"	¾ in	**5GNK4**	**5GNL3**	**5GNN2**	**5GNP1**
		1"	1 in	**5GNK5**	**5GNL4**	**5GNN3**	**5GNP2**
		2"	¾ in	**5GNK8**	**5GNL7**	**5GNN6**	**5GNP5**
		3"	¾ in	**5GNK9**	**5GNL8**	**5GNN7**	**5GNP6**
	1 in	¼"	¼ in	**5GNT6**	**5GNU5**	**5GNV4**	**5GNW3**
		½"	½ in	**5GNT7**	**5GNU6**	**5GNV5**	**5GNW4**
		¾"	¾ in	**5GNT8**	**5GNU7**	**5GNV6**	**5GNW5**
		1"	1 in	**5GNT9**	**5GNU8**	**5GNV7**	**5GNW6**
		1¼"	½ in	**5GNU0**	**5GNU9**	**5GNV8**	**5GNW7**
		1½"	½ in	**5GNU1**	**5GNV0**	**5GNV9**	**5GNW8**
		2"	¾ in	**5GNU2**	**5GNV1**	**5GNW0**	**5GNW9**
		3"	¾ in	**5GNU3**	**5GNV2**	**5GNW1**	**5GNX0**
		4"	¾ in	**5GNU4**	**5GNV3**	**5GNW2**	**5GNX1**
	1 ¼ in	1"	1 in	**5GNZ3**	**5GPA2**	**5GPC1**	**5GPD0**
		2"	¾ in	**5GNZ6**	**5GPA5**	**5GPC4**	**5GPD3**
		3"	¾ in	**5GNZ7**	**5GPA6**	**5GPC5**	**5GPD4**
		4"	¾ in	**5GNZ8**	**5GPA7**	**5GPC6**	**5GPD5**
	1 ½ in	1"	1 in	**5GPF7**	**5GPG6**	**5GPH5**	**5GPJ4**
		1½"	½ in	**5GPF9**	**5GPG8**	**5GPH7**	**5GPJ6**
		3"	¾ in	**5GPG1**	**5GPH0**	**5GPH9**	**5GPJ8**
Standoff Cap							
10-24 x ½" Stud	⅜"	¼"	—	**5AGR1**	**5AGT5**	**5AGU9**	**5AGW3**
10-24 x 1" Stud		⅜"	—	**5AGR2**	**5AGT6**	**5AGV0**	**5AGW4**
¼-20 x ½" Stud	½"	7⁄16"	—	**5AGR3**	**5AGT7**	**5AGV1**	**5AGW5**
¼-20 x 1 ½" Stud		½"	—	**5AGR4**	**5AGT8**	**5AGV2**	**5AGW6**
5⁄16-18 x ½" Stud	⅝"	7⁄16"	—	**5AGR5**	**5AGT9**	**5AGV3**	**5AGW7**
	¾"	7⁄16"	—	**5AGR7**	**5AGU1**	**5AGV5**	**5AGW9**
5⁄16-18 x 1 ½" Stud		½"	—	**5AGR8**	**5AGU2**	**5AGV6**	**5AGX0**
5⁄16-18 x ½" Stud	1"	7⁄16"	—	**5AGR9**	**5AGU3**	**5AGV7**	**5AGX1**
5⁄16-18 x 1 ½" Stud		½"	—	**5AGT0**	**5AGU4**	**5AGV8**	**5AGX2**
5⁄16-18 x ½" Stud	1¼"	7⁄16"	—	**5AGT1**	**5AGU5**	**5AGV9**	**5AGX3**
5⁄16-18 x 1 ½" Stud		½"	—	**5AGT2**	**5AGU6**	**5AGW0**	**5AGX4**
5⁄16-18 x ½" Stud	1½"	7⁄16"	—	**5AGT3**	**5AGU7**	**5AGW1**	**5AGX5**
5⁄16-18 x 1 ½" Stud		½"	—	**5AGT4**	**5AGU8**	**5AGW2**	**5AGX6**

Cotter Pin

2WZV1

ITW Bee Leitzke

Cotter Pin and Hairpin Cotter Assortments

No. of Pieces	No. of Sizes	Includes	Item No.
Approved Vendor			
Cotter Pin Assortment, Low Carbon Steel, Zinc Finish			
117	7	(25) Each: 7/64 x 1 in, 3/32 in x ¾ in, x1 in, x1 ¼ in, (10) Each: ⅛ in x 1 ¼ in, (5) 1/16 in x 1 in, (2) Each: 1/16 in x ¾ in, Plastic Container	**53WR33**
Hairpin Cotter Pin Assortment, Spring Wire, Zinc Finish			
50	5	(10) Each: ⅛ in, ¼-5/16 in, 3/16-1/4 in, ⅜-7/16 in, 5/16-3/8 in, Fits Shaft Sizes, Plastic Container	**2MVP7**
Slotted Spring Assortment, Carbon Steel			
450	18	(25) Each: 1/16x1/4, x1/2 in, x3/4 in, x1 in, 5/64x1/4 in, x1/2 in, x3/4 in, x1 in, 3/32x1/4 in, x1/2 in, x3/4 in, x1 in, x1 ¼ in, 1/8x1/2 in, x3/4 in, x1 in, x1 ¼ in, x1 ½ in, and Plastic Container	**6LF71**
405	18	(25) Each: 5/32x1/2, x5/8 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, x1 ½ in, 3/16x1/2 in, x3/4 in, x7/8 in, x1 in, x1 ¼ in, x1 ½ in, 7/32x5/8 in, x3/4 in, 10 Each: 7/32x1 in, x1 ¼ in, x1 ½ in, and Plastic Container	**6LF72**
Itw Bee Leitzke			
Coiled Spring Assortment, Carbon Steel			
270	16	(30) Each: 1/8x3/4, x1 in, (20) Each: 1/16x1/2 in, x1 in, 3/32x1/2 in, x1 in, 1/8x1/2 in, 3/16x1 in, x1 ½ in, (15) Each: 5/32x1/2 in, (10) Each: 5/32x1 in, 1/4x1 in, x1 ½ in, x2 in, 5/16x1 in, (5) Each: 5/16x2 in, Plastic Container	**2NRY5**
Cotter, Extended Prong Pin Assortment, 18-8 Stainless Steel			
100	14	(10) Each: 3/32x3/4, x1 in, 1/8x1 in, x1 ¼ in, 3/16x1 in, x1 ½ in, (8) Each: 1/8x1 ½ in, 3/16x2 in, (6) Each: 1/4x1 ½ in, x2 in, (4) Each: 3/32x1 ½ in, 5/32x1 ½ in, (2) Each: 5/16x2 in, x2 ½ in, Plastic Container	**2WZV2**
550	7	(125) Each: 1/16x1 in, (20) Each: 5/32x2 in, (40) Each: 1/8x2 in, (50) Each: 1/8x1 ½ in, (60) Each: 1/8x1 in, (70) Each: 3/32x1 ½ in, (80) Each: 3/32x3/4 in, 3/32x1 in, Plastic Container	**2WZU9**
1,200	10	(100) Each: 1/8x1 in, (125) Each: 3/32x1 ½ in, (15) Each: 3/16x2 in, (150) Each: 1/16x1 in, (20) Each: 5/32x2 in, (200) Each: 1/16x1/2 in, (250) Each: 3/32x3/4 in, (65) Each: 1/8x2 in, (75) Each: 1/8x1 ½ in, 3/32x1 in, Plastic Container with Identification Label	**2WZU7**
Cotter, Extended Prong Pin Assortment, Low Carbon Steel, Zinc Finish			
420	6	(100) Each: 1/16x1 in, 1/8x1 in, 3/32x1 in, (20) Each: 3/16x2 in, (40) Each: 5/32x1 ½ in, (60) Each: 1/8x1 ½ in, Plastic Container	**2NRY4**
100	14	(10) Each: 3/32x3/4, x1 in, 1/8x1 in, x1 ¼ in, 3/16x1 in, x1 ½ in, (8) Each: 1/8x1 ½ in, 3/16x2 in, (6) Each: 1/4x1 ½ in, x2 in, (4) Each: 3/32x1 ½ in, 5/32x1 ½ in, (2) Each: 5/16x2 in, x2 ½ in, Plastic Container	**2WZV3**
550	7	(125) Each: 1/16x1 in, (40) Each: 1/8x2 in, (50) Each: 1/8x1 ½ in, (60) Each: 1/8x1 in, (70) Each: 3/32x1 ½ in, (80) Each: 3/32x3/4 in, 3/32x1 in, Plastic Container	**2WZV1**
1,200	10	(100) Each: 1/8x1 in, (125) Each: 3/32x1 ½ in, (15) Each: 3/16x2 in, (150) Each: 1/16x1 in, (20) Each: 5/32x2 in, (200) Each: 1/16x1/2 in, (250) Each: 3/32x3/4 in, (65) Each: 1/8x2 in, (75) Each: 1/8x1 ½ in, 3/32x1 in, Plastic Container with Identification Label	**2WZU8**
Hairpin Clips Pin Assortment, Spring Wire, Zinc Finish			
276	9	(15) Each: ⅝ in, (20) Each: ½ in, (30) Each: ⅜ in, (40) Each: 5/16 in, (50) Each: ⅛ in, (6) Each: 1 in, ¼ in, 3/16 in, ¾ in, Fits Shaft Sizes, Plastic Hanging Pak	**2MVP2**
Hairpin Cotter Pin Assortment, 18-8 Stainless Steel			
50	5	(10) Each: ⅛ in, ¼-5/16 in, 3/16-1/4 in, ⅜-7/16 in, 5/16-3/8 in, Fits Shaft Sizes, Plastic Container	**2MVP8**
Hairpin Cotter Pin Assortment, Spring Wire, Zinc Finish			
74	8	(10) Each: ⅛-3/16 in, (4) Each: 1⅛-1-1/2 in, ¼-5/16 in, 3/16-1/4 in, ⅜-7/16 in, 5/16-3/8 in, ⅝-3/4, ⅞-1 in, Fits Shaft Sizes, Plastic Container	**2MVP6**
130	7	(10) Each: ⅞-1 in, (20) Each: 3/16-1/4 in, ½ 9/16 in, ¼-5/16 in, ⅜-7/16 in, 5/16-3/8 in, ⅝-3/4 in, Fits Shaft Sizes, Plastic Container	**5A199**
Slotted Spring Assortment, Carbon Steel, Zinc Finish			
170	6	(50) Each: 1/8x1, (35) Each: 3/16x1 in, (30) Each: 1/8x1 ½ in, (25) Each: 3/16x1 ½ in, (15) Each: 1/4x1 ¼ in, x1 ½ in, Plastic Container	**5A197**
204	17	(30) Each: 1/16x3/4, (20) Each: 5/32x1 in, (15) Each: 3/32x1 in, x1 ¼ in, 1/8x7/8 in, x1 ½ in, (10) Each: 3/16x1 in, x1 ½ in, 7/32x1 ¼ in, 1/4x7/8 in, x1 ¼ in, x1 ½ in, 5/16x1 ½ in, (8) Each: 5/16x1 ¾ in, x2 ½ in, (4) Each: 3/8x1 ¾ in, x2 ¼ in, Plastic Container	**5A198**

Hairpin Clip

Hairpin Cotter Pin

Hairpin Cotter Pins

Fits Shaft Dia.	Pin Dia.	Length	Item No.	Pkg. Qty.
Hairpin Clips				
18-8 Stainless Steel				
3/16 in	1/32 in	½"	**2MVN3**	100
5/16 in	3/64 in	¾"	**2MVN4**	100
⅜ in	3/64 in	31/32"	**2MVN5**	100
7/16 in	3/64 in	1⅛"	**2MVN6**	100
½ in	1/16 in	1⅛"	**2MVN7**	50
⅝ in	3/64 in	1½"	**2UJR7**	25
¾ in	3/32 in	1 13/16"	**2MVN8**	25
1 in	⅛ in	2 9/32"	**2MVP1**	10
Zinc-Plated Spring Wire				
3/16 in	1/32 in	½"	**2MVL1**	100
¼ in	1/32 in	⅝"	**2MVL2**	100
5/16 in	3/64 in	¾"	**2MVL3**	100
⅜ in	3/64 in	31/32"	**2MVL4**	100
½ in	1/16 in	1⅛"	**2MVL6**	100
⅝ in	3/32 in	1½"	**2MVL7**	100
¾ in	3/32 in	1 13/16"	**2MVL8**	100
⅞ in	7/64 in	2 5/64"	**2MVL9**	50
1 in	⅛ in	2 9/32"	**2MVN1**	50
Hairpin Cotter Pins				
18-8 Stainless Steel				
⅛ to 5/32 in	1/32 in	39/64"	**1WHR1**	50
⅛ to 3/16 in	3/64 in	19/32"	**1BBG5**	50
3/16 to ¼ in	3/64 in	1"	**1WHR2**	50
	3/64 in	15/16"	**2MVK3**	100
¼ to 5/16 in	1/16 in	1⅛"	**2MVK4**	100
¼ to ⅜ in	5/64 in	1 3/16"	**1BBF9**	50
	3/64 in	1 9/16"	**1BBG7**	50
¼ to ½ in	3/32 in	1⅝"	**1BBE8**	50
	1/16 in	1 5/16"	**1BBG6**	50
¼ to ⅝ in	3/32 in	2 5/16"	**1BBF1**	50
5/16 to ⅜ in	5/64 in	1 7/16"	**2MVK5**	50
5/16 to ½ in	5/64 in	1⅝"	**3DYT2**	25
⅜ to 7/16 in	29/32 in	1⅞"	**2MVK6**	25
⅜ to ½ in	5/64 in	1 9/16"	**1BBG3**	50
⅜ to ¾ in	3/32 in	2½"	**1BBG1**	25
7/16 to ¾ in	⅛ in	2 9/16"	**1BBF8**	25
½ to ⅝ in	⅛ in	2⅜"	**2MVK7**	25
½ to ¾ in	⅛ in	1 15/16"	**1BBG2**	25
⅝ to ¾ in	9/64 in	2 9/16"	**2MVK8**	10
⅝ to ⅞ in	⅛ in	2½"	**1BBG8**	10
⅝ to 1 in	11/64 in	3¼"	**1BBE9**	10
¾ to 1 ⅛ in	9/64 in	3 5/16"	**1BBF2**	10
¾ to 1 in	¼ in	4"	**1BBG4**	1
¾ to 1 1/16 in	11/64 in	3½"	**1BBG9**	5
316 Stainless Steel				
¼ to ⅜ in	5/64 in	1 3/16"	**1BBH7**	25
	3/64 in	1 9/16"	**1BBJ2**	25
¼ to ½ in	3/32 in	1⅝"	**1BBH2**	25
	1/16 in	1 5/16"	**1BBJ1**	25
¼ to ⅝ in	3/32 in	2 5/16"	**3DYT3**	25
⅜ to ½ in	5/64 in	1 9/16"	**1BBH9**	25
7/16 in to ¾ in	⅛ in	2 9/16"	**3DYT5**	10
½ to ¾ in	⅛ in	1 15/16"	**1BBH8**	10
⅝ to ⅞ in	⅛ in	2½"	**1BBJ3**	10
⅝ to 1 in	11/64 in	3¼"	**1BBH5**	5
¾ in to 1 ⅛ in	9/64 in	3 5/16"	**3DYT4**	5
Zinc-Plated Carbon Steel				
⅛ to 5/32 in	1/32 in	½"	**2UJK1**	25
⅛ to 3/16 in	1/32 in	19/32"	**2MVJ3**	100
3/16 to ¼ in	3/64 in	15/16"	**2MVJ4**	100
	3/64 in	1"	**2UJK4**	25
	3/64 in	¾"	**2UJK7**	25
	3/64 in	31/32"	**2UJK9**	25
¼ to 5/16 in	1/16 in	1⅛"	**2MVJ5**	100
¼ to ⅜ in	3/64 in	1 9/16"	**2UJK6**	25
	3/64 in	⅞"	**2UJK8**	25
	5/64 in	1 3/16"	**2UJL4**	25
	5/64 in	1 3/16"	**2UJL6**	25
¼ to ½ in	1/16 in	1 5/16"	**2UJL1**	25
	3/32 in	1⅛"	**2UJN1**	25
	3/32 in	1⅝"	**2UJN2**	25
	3/32 in	2"	**2UJN3**	25
¼ to ⅝ in	3/32 in	2 5/16"	**2UJN4**	25
5/16 to ⅜ in	5/64 in	1 7/16"	**2MVJ6**	100
	5/64 in	1 3/32"	**2UJL3**	25
5/16 in to ⅜ in	3/32 in	1⅝"	**2UJL8**	25
5/16 to ⅜ in	7/64 in	1¼"	**2UJN6**	25
⅜ to 7/16 in	3/32 in	1⅞"	**2MVJ7**	100
⅜ to ½ in	1/16 in	1 9/16"	**2UJL2**	25
	5/64 in	1⅞"	**2UJL5**	25
	5/64 in	1 9/16"	**2UJL7**	25
	3/32 in	2"	**2UJL9**	25
⅜ to ¾ in	3/32 in	2½"	**2UJN5**	25
7/16 to ¾ in	⅛ in	2 9/16"	**2UJP1**	25
½ to ⅝ in	⅛ in	2⅜"	**1PVN3**	25
	⅛ in	2⅜"	**2MVJ8**	50
½ to ¾ in	⅛ in	1 9/16"	**2UJN7**	25
	⅛ in	1 15/16"	**2UJN8**	25
½ to 1 in	9/64 in	3"	**2UJP5**	10
	11/64 in	3"	**2UJP8**	10
½ in to 1 in	5/32 in	3 7/16"	**3DYT7**	10
⅝ to ¾ in	9/64 in	2 9/16"	**2MVJ9**	50
	9/64 in	2¾"	**2UJP4**	25
⅝ to ⅞ in	⅛ in	2½"	**2UJN9**	25
⅝ to 1 in	9/64 in	2 15/16"	**2UJP6**	25
	11/64 in	3¼	**2UJR1**	10
¾ to 1 ⅛ in	⅛ in	2⅞"	**2UJP2**	25
	⅛ in	3⅛"	**2UJP3**	10
	9/64 in	3 5/16"	**2UJP7**	25
¾ to 1 1/16 in	11/64 in	3½"	**2UJR2**	10
¾ to 1 in	¼ in	4"	**2UJR5**	10
⅞ to 1 in	11/64 in	3¾"	**2MVK1**	25
⅞ to 1 1/16 in	11/64 in	2 3/16"	**2UJP9**	25
⅞ to 1 in	11/64 in	3½"	**2UJR3**	10
⅞ to 1 ¼ in	11/64 in	3¾"	**2UJR4**	10
⅞ in to 1 in	19/64 in	4 1/16"	**3DYT6**	10
1 ¼ to 1 ½ in	¼ in	5⅛"	**1WFA7**	10
1 ⅛ to 1 ½ in	¼ in	5"	**2MVK2**	10

Standard Clevis Pins

Flat-headed pins have a hole drilled in the opposite end. All pins meet ASME B18.8.1 standards.

Note: 316 stainless steel and plain finish steel clevis pins are also available; on Grainger.com®, search for "clevis pins."

Overall Length	Usable Length	Steel, Zinc-Plated Item No.	Steel, Zinc-Plated Pkg. Qty.	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.
3/16" Pin Dia.					
1/2"	23/64"	3HKT4	25	—	—
3/4"	39/64"	2MUC5	25	2XAV2	10
7/8"	47/64"	1BAP9	25	—	—
1"	55/64"	2MUC6	25	2XAV3	10
1 1/4"	1 7/64"	2MUC7	25	2XAV4	10
1 1/2"	1 23/64"	2MUC8	25	3HKR3	10
1 3/4"	1 39/64"	1BAU8	25	2XAV5	10
2"	1 55/64"	2MUC9	25	2XAV6	10
3"	2 55/64"	3HKT5	25	—	—
1/4" Pin Dia.					
1/2"	23/64"	—	—	2XAV8	10
3/4"	39/64"	2MUE3	25	3HKR4	10
7/8"	47/64"	2MUE5	25	—	—
1"	55/64"	2MUE6	25	3HKR5	10
1 1/4"	1 7/64"	2MUE8	25	3HKR7	10
1 1/2"	1 23/64"	2MUE9	25	3HKR8	10
1 5/8"	1 31/64"	1BAX7	25	2XAW1	10
1 3/4"	1 39/64"	2MUF1	25	3HKR9	10
1 7/8"	1 47/64"	1BAY2	25	2XAW2	5
2"	1 55/64"	2MUF2	25	2XAW3	5
2 1/4"	2 7/64"	2MUF3	25	2XAW4	5
2 1/2"	2 23/64"	2MUF4	25	2XAW6	5
2 3/4"	2 39/64"	1BAZ1	25	—	—
3"	2 55/64"	2MUF5	25	2XAW7	5
3 1/2"	3 23/64"	1BAZ5	25	—	—
5/16" Pin Dia.					
3/4"	17/32"	2MUF8	25	2XAW9	5
1"	25/32"	2MUH1	25	2XAX1	5
1 1/8"	29/32"	2MUH2	25	—	—
1 1/4"	1 1/32"	2MUH3	25	2XAX3	5
1 1/2"	1 9/32"	2MUH4	25	2XAX5	5
1 5/8"	1 13/32"	1BBB9	25	—	—
1 3/4"	1 17/32"	2MUH5	25	2XAX7	5
2"	1 25/32"	2MUH6	25	—	—
2 1/8"	1 29/32"	1BBC8	25	—	—
2 1/4"	2 1/32"	2MUH7	25	3HKT1	5
2 3/8"	2 5/32"	1BUC9	25	—	—
2 1/2"	2 9/32"	3HKT6	25	2XAX9	5
2 3/4"	2 17/32"	1BUE2	25	—	—
3"	2 25/32"	2MUH8	25	3HKT2	5
3 1/2"	3 9/32"	1BUE4	25	2XAY1	5
4"	3 25/32"	1BUE5	25	—	—
3/8" Pin Dia.					
1"	49/64"	2MUJ1	25	2XAY4	5
1 1/8"	57/64"	2MUJ2	25	2XAY5	5
1 1/4"	1 1/64"	2MUJ3	25	2XAY6	5
1 3/8"	1 9/64"	2MUJ4	25	—	—
1 1/2"	1 17/64"	2MUJ5	25	—	—
1 5/8"	1 25/64"	3HKT7	25	—	—
1 3/4"	1 33/64"	2MUJ6	25	2XAZ1	5
2"	1 49/64"	2MUJ7	25	2XAZ2	5
2 1/4"	2 1/64"	2MUJ8	25	2XAZ4	1
2 1/2"	2 17/64"	2MUJ9	10	—	—
2 3/4"	2 33/64"	2MUL1	10	—	—
3"	2 49/64"	2MUL2	10	2XAZ6	1
3 1/2"	3 17/64"	2MUL3	10	2XAZ7	1
4"	3 49/64"	2MUL4	10	2XAZ8	1
7/16" Pin Dia.					
1 1/4"	1 1/64"	2MUL5	10	—	—
1 1/2"	1 17/64"	2MUL6	10	2XAZ9	1
1 3/4"	1 33/64"	2MUL7	10	2MTX5	1
2"	1 49/64"	2MUL8	10	2MTX6	1
2 1/4"	2 1/64"	1PVL6	10	—	—
2 1/2"	2 17/64"	2MUL9	10	2MTX7	1
3"	2 49/64"	1PVT2	10	2MTX8	1
3 1/2"	3 17/64"	1PVU4	10	2MTX9	1
4"	3 49/64"	1PVX6	10	2MTY1	1
1/2" Pin Dia.					
1"	49/64"	2MUN2	10	—	—
1 1/4"	1 1/64"	2MUN3	10	2MTY3	1
1 3/8"	1 9/64"	1WEW8	10	—	—
1 1/2"	1 17/64"	2MUN5	10	2MTY4	1
1 3/4"	1 33/64"	2MUN6	10	2MTY5	1
2"	1 49/64"	2MUN7	10	2MTY6	1
2 1/4"	2 1/64"	2MUN8	10	2MTY7	1
2 1/2"	2 17/64"	2MUN9	10	2MTY8	1
2 5/8"	2 25/64"	1WEY4	10	—	—
2 3/4"	2 33/64"	2MUP1	10	2MTY9	1
3"	2 49/64"	2MUP2	10	2MTZ1	1
3 1/2"	3 17/64"	2MUP3	10	2MTZ2	1
4"	3 49/64"	2MUP4	10	2MTZ3	1
4 1/2"	4 17/64"	2MUP5	10	2MTZ4	1
5"	4 49/64"	2MUP6	5	2MTZ5	1
6"	5 49/64"	1WEZ9	5	—	—
9/16" Pin Dia.					
2"	1 49/64"	1WFA2	10	—	—
2 1/2"	2 17/64"	1WFA4	5	—	—
3"	2 49/64"	1WFA6	5	—	—
5/8" Pin Dia.					
1 1/2"	1 17/64"	2MUP7	10	—	—
1 3/4"	1 33/64"	2MUP8	10	2MTZ7	1
2"	1 49/64"	2MUP9	10	2MTZ8	1
2 1/4"	2 1/64"	2MUR1	5	2MTZ9	1
2 1/2"	2 17/64"	2MUR2	5	2MUA1	1
3"	2 49/64"	2MUR3	5	2MUA2	1
3 1/2"	3 17/64"	2MUR4	5	—	—
3/4" Pin Dia.					
2"	1 49/64"	3HKT8	5	—	—
2 1/2"	2 17/64"	3HKT9	5	—	—
2 3/4"	2 33/64"	3HKU1	5	—	—
3"	2 49/64"	2MUR5	5	—	—
3 1/2"	3 17/64"	2MUR6	5	—	—
3 3/4"	3 33/64"	1WFD7	5	—	—
4"	3 49/64"	3HKU2	1	—	—
4 1/2"	4 17/64"	3HKU3	1	—	—
5"	4 49/64"	2MUR7	1	—	—
6"	5 49/64"	1WFE6	1	—	—
6 1/2"	6 17/64"	2MUR8	1	—	—
7/8" Pin Dia.					
3"	2 45/64"	1WFF1	1	—	—
4"	3 45/64"	1WFF3	1	—	—
1" Pin Dia.					
2"	1 45/64"	2MUR9	1	—	—
2 1/2"	2 13/64"	2MUU2	1	—	—
2 3/4"	2 29/64"	2MUU3	1	—	—
3"	2 45/64"	2MUU4	1	—	—
3 1/4"	2 61/64"	2MUU5	1	—	—
3 1/2"	3 13/64"	2MUU6	1	—	—
4"	3 45/64"	2MUU7	1	—	—
4 1/2"	4 13/64"	2MUU8	1	—	—
5"	4 45/64"	1WFH5	1	—	—
6"	5 45/64"	2MUU9	1	—	—
1 1/8" Pin Dia.					
4"	3 3/8"	1WFH9	1	—	—
5"	4 3/8"	1WFJ2	1	—	—
6"	5 3/8"	1WFJ4	1	—	—
1 1/4" Pin Dia.					
4"	3 3/8"	1WFJ6	1	—	—
5"	4 3/8"	1WFJ8	1	—	—
6"	5 3/8"	1WFK1	1	—	—
1 1/2" Pin Dia.					
4"	3 3/8"	1WFK3	1	—	—
5"	4 3/8"	1WFK5	1	—	—
6"	5 3/8"	1WFK7	1	—	—

Cotter Pin

Cotter Pins

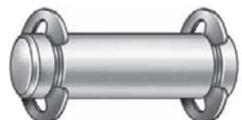
Meet ANSI/ASME 18.8 standards.

Note: 316 stainless steel and brass pins and bulk packaging also available on Grainger.com®, search for "bulk cotter pins."

Pin Dia.	Length	18-8 Stainless Steel Item No.	18-8 Stainless Steel Pkg. Qty.	Low Carbon Steel, Zinc-Plated Item No.	Low Carbon Steel, Zinc-Plated Pkg. Qty.
3/64 in	1/2"	2UHX6	100	5UU54	100
1/16 in	1/2"	2WZP6	100	2UHK2	100
	3/4"	2WZP7	100	—	—
	1"	2WZP8	100	—	—
	1 1/4"	2WZP9	100	—	—
	1 1/2"	2WZR1	100	2UHL1	100
3/32 in	1/2"	2WZR2	100	2UHL5	100
	3/4"	2WZR3	100	—	—
	1"	2WZR4	100	—	—
	2"	—	—	2UHN5	100
7/64 in	1"	—	—	2UHN9	100
1/8 in	3/4"	2WZR5	100	—	—
	1"	2WZR6	100	—	—
	1 1/4"	2WZR7	100	2WZG6	100
	1 1/2"	2WZR8	100	2WZG8	100
	1 3/4"	—	—	2WZH1	100
	2"	2WZR9	100	2WZH3	100
	2 1/2"	2WZT1	100	2WZH5	100
	3"	—	—	2UHR1	100
5/32 in	1"	2WZT2	100	2WZH7	100
	1 1/4"	—	—	2WZH9	100
	1 1/2"	2WZT3	100	2WZJ2	100
	1 3/4"	—	—	2WZJ4	100
	2"	2WZT4	100	2WZJ6	100
	2 1/2"	—	—	2WZJ8	50
3/16 in	1"	2WZT5	100	2WZK6	100
	1 1/4"	2WZT6	100	—	—
	1 1/2"	2WZT7	100	2WZK7	50
	1 3/4"	2WZT8	50	—	—
	2"	2WZT9	50	2WZK8	50
	2 1/2"	2WZU1	50	2WZK9	50
	3"	2WZU2	50	2WZL1	50
1/4 in	1 1/2"	2WZU3	50	2WZL2	50
	2"	2WZU4	25	2WZL4	50
	2 1/2"	2WZU5	25	2WZL6	50
	3"	2WZU6	25	2WZL8	50
	4"	—	—	2WZN1	25
5/16 in	2"	—	—	2WZN3	50
	3"	—	—	2WZN5	25
	5"	3DZK6	10	—	—
3/8 in	2 1/2"	—	—	2WZN7	25
	3"	—	—	2WZN9	25
	3 1/2"	—	—	2WZP2	25
	4"	—	—	2WZP4	25
	5"	3DZL1	10	—	—
	6"	2UHY9	5	—	—
1/2 in	3"	2UHZ1	2	2UHV6	5
	4"	2UHZ2	2	2UHV8	5
	5"	2UHZ3	2	2UHW1	5
	6"	3DZL2	2	2UHW3	5

Grooved Head and Headless Clevis Pins

Grooved



Grooved Headless

- Stainless steel pins have stainless steel E rings
- Zinc-plated steel pins have a phosphate finish Meet ASME B18.8 standards.

Pin Dia.	Overall Length	Usable Length	Item No.
Grooved 18-8 Stainless Steel			
3/16 in	1/2"	13/32 in	2XAA3
	3/4"	21/32 in	3HKP6
	1"	29/32 in	2XAA4
	1 1/4"	1 5/32 in	2XAA5
	1 1/2"	1 13/32 in	2XAA6
	2"	1 29/32 in	2XAA7
	2 1/2"	2 13/32 in	2XAA8
1/4 in	1/2"	13/32 in	2XAC1
	3/4"	21/32 in	2XAC2
	1"	29/32 in	2XAC3
	1 1/4"	1 5/32 in	2XAC4
	1 1/2"	1 13/32 in	2XAC5
	2"	1 29/32 in	2XAC6
	2 1/2"	2 13/32 in	2XAC8
	3"	2 29/32 in	2XAC9
5/16 in	3/4"	39/64 in	2XAD1
	1"	55/64 in	2XAD2
	1 1/4"	1 7/64 in	2XAD3
	1 1/2"	1 23/64 in	2XAD4
	2"	1 55/64 in	2XAD5
3/8 in	1"	27/32 in	2XAD8
	1 1/4"	1 3/32 in	2XAD9
	1 1/2"	1 11/32 in	2XAE1
	2"	1 27/32 in	2XAE2
	2 1/4"	2 3/32 in	2XAE3
	2 1/2"	2 11/32 in	2XAE4
	3"	2 27/32 in	2XAE5
1/2 in	1 1/2"	1 11/32 in	2XAE6
	2"	1 27/32 in	2XAE7
	2 1/2"	2 11/32 in	2XAE8
	3"	2 27/32 in	2XAE9
Grooved Headless Zinc Plated Steel			
3/16 in	1 17/32"	1 1/4 in	2XAF2
1/4 in	1 1/32"	3/4 in	2XAF3
	1 9/32"	1 in	2XAF4
5/16 in	1 3/32"	3/4 in	2XAF7
	1 11/32"	1 in	2XAF8
	1 19/32"	1 1/4 in	2XAF9
	1 27/32"	1 1/2 in	2XAG1
3/8 in	1 11/32"	1 in	2XAG2
	1 19/32"	1 1/4 in	2XAG3
	1 27/32"	1 1/2 in	2XAG4
	2 11/32"	2 in	2XAG5
1/2 in	1 21/32"	1 1/4 in	2XAG9
	1 29/32"	1 1/2 in	2XAH1
	2 13/32"	2 in	2XAH2
	2 29/32"	2 1/2 in	2XAH3
	3 13/32"	3 in	2XAH4

Standard-Duty

Coiled Tension

Safety Pins

ITW Bee Leitzke

- Zinc-plated spring steel

Usable Length	Overall Length	Wire Dia.	Brand	Item No.	Pkg. Qty.
Standard Duty Without Coil					
1 ¼ in	1 ⅝ in	0.047 in	—	**2UJG6**	100
1 ½ in	1 53⁄64 in	0.047 in	—	**2UJG7**	100
2 ½ in	3 in	0.063 in	—	**2UJG8**	100
Coiled Tension					
15⁄16 in	1 9⁄16 in	0.047 in	—	**2WZV5**	25
1 1⁄16 in	1 ¾ in	0.058 in	—	**2WZV6**	25
1 11⁄16 in	2 ¾ in	0.091 in	—	**2WZV7**	25
2 13⁄16 in	4 ⅜ in	0.12 in	Itw Bee Leitzke	**2WZV8**	10
3 ¾ in	5 ¾ in	0.148 in	Itw Bee Leitzke	**2WZV9**	10

Coiled Tension Snap, Square

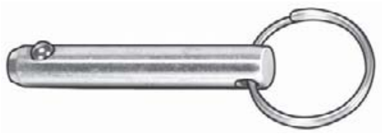
Single-Wire Tab Lock, Round

Double-Wire Snap, Square

Snap Pins

Pin Dia.	Usable Length	Overall Length	Item No.	Pkg. Qty.
Coil Tension Snap				
Square, Steel				
¼ in	3 in	3 11⁄16 in	**5VU70**	1
	3 ½ in	4 3⁄16 in	**5VU73**	1
	4 in	4 11⁄16 in	**5VU76**	1
5⁄16 in	3 in	3 11⁄16 in	**5VU79**	1
	4 in	4 11⁄16 in	**5VU82**	1
⅜ in	3 in	3 11⁄16 in	**5VU85**	1
	3 ½ in	4 3⁄16 in	**5VU88**	1
	4 in	4 11⁄16 in	**5VU91**	1
⅝ in	4 in	5 ¾ in	**5VU94**	1
¾ in	4 in	5 16⁄23 in	**5VU97**	1
	6 in	7 16⁄23 in	**5VV10**	1
Single Wire Tab Lock				
Round, Steel				
¼ in	1 ¾ in	2 ¼ in	**3HLA2**	5
5⁄16 in	1 ¾ in	2 in	**3HLA4**	5
⅜ in	1 ¾ in	2 in	**3HLA6**	5
Square, Steel				
¼ in	2 ½ in	3 in	**3HLA3**	5
5⁄16 in	2 ½ in	2 ¾ in	**3HLA5**	5
⅜ in	2 ½ in	3 in	**3HLA7**	5

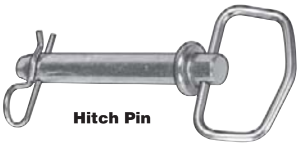
Pin Dia.	Usable Length	Overall Length	Item No.	Pkg. Qty.
Double Wire Snap				
Round, Steel				
¼ in	1 ¾ in	2 5⁄16 in	**3HKP4**	1
	2 ½ in	3 1⁄16 in	**3DZN8**	1
5⁄16 in	1 ⅜ in	1 ⅞ in	**5VU61**	1
	2 ½ in	3 1⁄16 in	**3DZN9**	1
⅜ in	1 ⅜ in	1 15⁄16 in	**5VU67**	1
Square, Steel				
¼ in	2 ¼ in	2 ¾ in	**5VU31**	1
	2 ½ in	3 in	**5VU34**	1
5⁄16 in	2 ¼ in	2 ¾ in	**5VU37**	1
	2 ½ in	3 1⁄16 in	**3HKP5**	1
	3 in	3 9⁄16 in	**2UJG4**	1
⅜ in	2 ¼ in	2 13⁄16 in	**5VU46**	1
	2 ½ in	3 1⁄16 in	**5VU49**	1
	3 in	3 9⁄16 in	**2UJG5**	1
Square, 18-8 Stainless Steel				
¼ in	2 ½ in	3 in	**5VU16**	1
5⁄16 in	2 ¼ in	2 ¾ in	**5VU19**	1
	2 ½ in	3 in	**5VU22**	1
⅜ in	2 ¼ in	2 13⁄16 in	**5VU25**	1
	2 ½ in	3 1⁄16 in	**5VU28**	1



Ring Pins

Feature a ball detent locking mechanism.
Also known as detent or quick-release pins.

Pin Dia.	Length	Usable Length	Item No.	Pkg. Qty.
C1215/C1018 Steel, Zinc-Plated				
3⁄16 in	1 in	13⁄16 in	**3HLJ7**	10
	1 ½ in	1 5⁄16 in	**3HLJ8**	10
	2 in	1 13⁄16 in	**3HLJ9**	10
¼ in	1 in	¾ in	**3HLK1**	10
	1 ½ in	1 ¼ in	**3HLK2**	10
	2 in	1 ¾ in	**3HLK3**	10
	2 ½ in	2 ¼ in	**3HLK4**	10
	3 in	2 ¾ in	**3HLK5**	10
5⁄16 in	2 in	1 ⅝ in	**3HLK6**	10
	2 ½ in	2 ⅛ in	**3HLK7**	10
	3 in	2 ⅝ in	**3HLK8**	10
⅜ in	2 in	1 ⅝ in	**3HLK9**	5
	2 ½ in	2 ⅛ in	**3HLL1**	5
	3 in	2 ⅝ in	**3HLL2**	5
½ in	2 in	1 ½ in	**3HLL4**	5
	2 ½ in	2 in	**3HLL5**	5
	3 in	2 ½ in	**3HLL6**	5
	4 in	3 ½ in	**3HLL8**	5



Hitch Pin

Hitch Pin With Lanyard

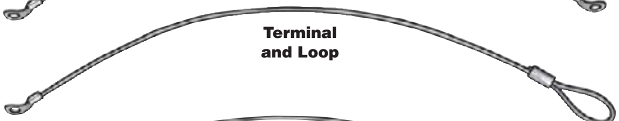
Bent Hitch Pin

Hitch Pins

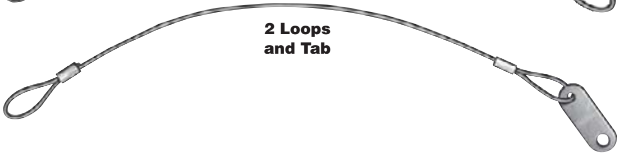
Include an easy-swivel, big-grip handle and high-tension hairpin cotter. Yellow zinc finish.

	Hitch Pins				Hitch Pins With Lanyard				Bent Hitch Pins		
Pin Dia.	Usable Length	Length	Item No.	Pkg. Qty.	Usable Length	Length	Item No.	Pkg. Qty.	Usable Length	Item No.	Pkg. Qty.
⅜ in	4 in	4 ⅜ in	**3HLL9**	1	4 in	4 ⅜ in	**3HLP6**	1	4 in	**3HLR8**	1
½ in	4 in	4 ¾ in	**3HLN1**	1	4 in	4 ¾ in	**3HLP7**	1	2 ½ in	**3HLR9**	1
	5 ¾ in	6 ½ in	**3HLN2**	1	5 ¾ in	6 ½ in	**3HLP8**	1	3 in	**3HLT1**	1
	—	—	—	—	—	—	—	—	4 in	**3HLT2**	1
⅝ in	5 ¾ in	6 ½ in	**3HLN4**	1	6 in	6 ¾ in	**3HLR1**	1	4 in	**3HLT4**	1
	6 in	6 ¾ in	**3HLN5**	1	—	—	—	—	—	—	—
	4 in	4 ¾ in	**3HLN3**	1	4 in	4 ¾ in	**3HLP9**	1	3 in	**3HLT3**	1
¾ in	4 ¼ in	5 in	**3HLN7**	1	6 ¼ in	7 in	**3HLR3**	1	4 ½ in	**3HLT6**	1
	5 ¼ in	6 in	**3HLN8**	1	—	—	—	—	—	—	—
	6 ¼ in	7 in	**3HLN9**	1	—	—	—	—	—	—	—
	4 in	4 ¾ in	**3HLN6**	1	4 ¼ in	5 in	**3HLR2**	1	3 ½ in	**3HLT5**	1
⅞ in	4 ¼ in	5 ¼ in	**3HLP1**	1	6 ½ in	7 ½ in	**3HLR4**	1	—	—	—
1 in	7 in	8 in	**3HLP3**	1	—	—	—	—	—	—	—
	4 ¾ in	5 ¾ in	**3HLP2**	1	6 ¾ in	7 ¾ in	**3HLR5**	1	4 ¾ in	**3HLT7**	1
1 ¼ in	7 in	7 ¾ in	**3HLP5**	1	—	—	—	—	—	—	—

2 Terminals



Terminal and Loop



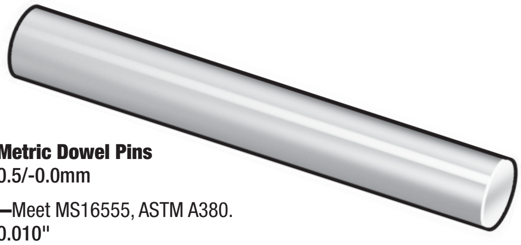
2 Loops and Tab

Lanyards

ITW Bee Leitzke

Help prevent the loss of fasteners, and also secure 2 mating-type fasteners to one another. Stainless steel tab permits lanyards that have a tab to be screwed to a flat surface. 3⁄64" wire dia. nylon coated to 1⁄16".

Type	Pkg. Qty.	6 in LENGTH Item No.	12 in LENGTH Item No.	18 in LENGTH Item No.	18" LENGTH Item No.
Stainless Steel, Nylon Coating					
2 Terminals	5	**3HLE7**	**3HLE8**	**3HLE9**	—
Terminal and Loop	5	**3HLF1**	**3HLF2**	**3HLF3**	—
2 Loops	5	**3HLF4**	**3HLF5**	**3HLF6**	—
2 Loops and Tab	5	**3HLF7**	**3HLF8**	**3HLF9**	—
Galvanized Steel, Zinc Plated Copper Coating					
Terminal and Loop	10	—	**3HLD7**	—	—
Galvanized, Nylon Coating					
2 Terminals	10	**3HLD3**	**3HLD4**	**3HLD5**	—
Terminal and Loop	10	**3HLD6**	—	—	**3HLD8**
2 Loops	10	**3HLD9**	**3HLE1**	**3HLE2**	—
2 Loops and Tab	5	**3HLE3**	**3HLE4**	**3HLE5**	—



Dowel Pins

Note: A1 metric, 416 and 18-8 stainless steel dowel pins are also available; on Grainger.com®, search for "dowel pins."

Plain Alloy Steel
- Length tolerance: ±0.012"

Hardened Steel Metric—Solid cylindrical pins are chamfered on 1 end for easy insertion and feature a smooth radius on the other end for easy removal. Meet DIN 6325/ISO 8734A m6 standard.

416 Stainless Steel Metric Dowel Pins
- Length tolerance: +0.5/-0.0mm

416 Stainless Steel—Meet MS16555, ASTM A380.
- Length tolerance: ±0.010"

Nom. Dia.	Length	Item No.	Pkg. Qty.
Standard			
Alloy Steel, Black Oxide Finish			
1/8 in	3/8 in	6VKC0	100
	1/2 in	6VKC1	100
	5/8 in	6VKC2	100
	3/4 in	6VKC3	100
	1 in	6VKD2	100
3/16 in	3/4 in	6VKA9	100
	1/2 in	6VKC4	100
	1 in	6VKC5	100
	1 1/4 in	6VKC6	100
	1 1/2 in	6VKC7	100
1/4 in	1/2 in	6VKC8	100
	3/4 in	6VKC9	100
	1 1/4 in	6VKD0	100
	1 1/2 in	6VKD1	100
	2 in	6VKD4	100
	2 1/2 in	6VKE3	100
5/16 in	1 in	6VKD3	100
	1 1/4 in	6VKD6	100
	1 1/2 in	6VKD7	100
	2 in	6VKD8	100
3/8 in	1 in	6VKD9	100
	1 1/2 in	6VKE0	100
	2 in	6VKE1	100
1/2 in	2 in	6VKD5	20
	1 1/2 in	6VKE2	20
	2 1/2 in	6VKE4	20
5/8 in	1 in	6VKE9	20
	2 in	6VKE5	10
	3 in	6VKE6	10
Alloy Steel, Plain Finish			
1/16 in	1/8 in	2MA84	100
	3/16 in	2MA85	100
	1/4 in	2MA86	100
	3/8 in	2MA88	100
	1/2 in	2MA90	100
	3/4 in	2MA93	100
	1 in	2MA95	100
	1 1/4 in	2MA96	5
	1 1/2 in	2MA97	5
3/32 in	5/16 in	2MB11	100
	3/8 in	2MB12	100
	7/16 in	2MB13	100
	1/2 in	2MB14	100
	5/8 in	2MB16	100
	3/4 in	2MB17	100
	1 in	2MB19	100
	1 1/4 in	2MB20	5
	2 in	2MB22	5
1/8 in	3/16 in	2MB23	100
	1/4 in	2MB24	100
	5/16 in	2MB25	100
	3/8 in	2MB26	100
	1/2 in	2MB28	100
	5/8 in	2MB30	100
	3/4 in	2MB31	100
	7/8 in	2MB32	100
	1 in	2MB33	100
	1 1/8 in	2MB34	100
	1 1/4 in	2MB35	100
	1 1/2 in	2MB36	100
	1 3/4 in	2MB37	50
	2 in	2MB38	50
	2 1/2 in	2MB40	5
	3 in	2MB42	5
5/32 in	1/2 in	2MB45	25
	5/8 in	2MB46	25
	3/4 in	2MB47	25
	7/8 in	2MB48	25
	1 in	2MB49	10
	1 1/4 in	2MB50	10
	1 1/2 in	2MB51	10
	2 in	2MB53	10

Nom. Dia.	Length	Item No.	Pkg. Qty.
3/16 in	1/4 in	2MB54	100
	3/8 in	2MB56	100
	7/16 in	2MB57	100
	1/2 in	2MB58	100
	9/16 in	2MB59	100
	5/8 in	2MB60	100
	3/4 in	2MB61	100
	7/8 in	2MB62	100
	1 in	2MB63	100
	1 1/4 in	2MB65	100
	1 1/2 in	2MB66	50
	1 3/4 in	2MB67	50
	2 in	2MB68	50
	2 1/4 in	2MB69	5
	2 1/2 in	2MB70	5
	2 3/4 in	2MB71	5
	3 in	2MB72	5
1/4 in	3/8 in	2MB73	100
	7/16 in	2MB74	25
	1/2 in	2MB75	100
	5/8 in	2MB77	100
	3/4 in	2MB78	100
	7/8 in	2MB79	100
	1 in	2MB80	100
	1 1/4 in	2MB82	50
	1 1/2 in	2MB83	50
	2 in	2MB85	50
	2 1/4 in	2MB86	100
	2 1/2 in	2MB87	50
	2 3/4 in	2MB88	5
	3 in	2MB89	5
	3 1/2 in	2MB90	5
5/16 in	1/2 in	2MB91	50
	5/8 in	2MB92	50
	3/4 in	2MB93	50
	1 in	2MB95	50
	1 1/4 in	2MB96	50
	1 1/2 in	2MB97	50
	1 3/4 in	2MB98	25
	2 in	2MB99	25
	2 1/4 in	2ME10	25
	2 1/2 in	2ME11	25
	2 3/4 in	2ME12	25
	3 in	2ME13	25
	4 in	2ME15	5
3/8 in	1/2 in	2ME16	50
	3/4 in	2ME18	50
	7/8 in	2ME19	50
	1 in	2ME20	25
	1 1/4 in	2ME21	25
	1 1/2 in	2ME22	25
	1 3/4 in	2ME23	25
	2 in	2ME24	25
	2 1/4 in	2ME25	25
	2 1/2 in	2ME26	25
	3 in	2ME27	10
	3 1/2 in	2ME28	5
	4 in	2ME29	5
7/16 in	1 in	2ME30	10
	1 1/4 in	2ME31	10
	1 1/2 in	2ME32	10
	2 in	2ME33	10
	2 1/2 in	2ME34	10
	3 in	2ME35	10
	4 in	2ME36	10
1/2 in	1/2 in	2ME37	5
	3/4 in	2ME38	10
	7/8 in	2ME39	10
	1 in	2ME40	10
	1 1/4 in	2ME41	10
	1 1/2 in	2ME42	10
	1 3/4 in	2ME43	5
	2 in	2ME44	10
	2 1/4 in	2ME45	10
	2 1/2 in	2ME46	10
	2 3/4 in	2ME47	10
	3 in	2ME48	10
	3 1/2 in	2ME49	10
	4 in	2ME50	5
	5 in	2ME52	5

Nom. Dia.	Length	Item No.	Pkg. Qty.
5/8 in	3/4 in	2ME53	10
	1 in	2ME54	10
	1 1/4 in	2ME55	10
	1 1/2 in	2ME56	10
	2 in	2ME57	5
	1 3/4 in	2ME59	5
	2 1/2 in	2ME60	5
	3 in	2ME62	5
	3 1/2 in	2ME63	5
	4 in	2ME64	5
	4 1/2 in	2ME65	5
	5 in	2ME66	5
	6 in	2ME67	1
3/4 in	1 in	2ME68	5
	1 1/4 in	2ME69	5
	1 1/2 in	2ME70	5
	1 3/4 in	2ME71	5
	2 in	2ME72	5
	2 1/4 in	2ME73	5
	2 1/2 in	2ME74	5
	3 in	2ME76	5
	3 1/2 in	2ME77	1
	4 in	2ME78	1
	5 in	2ME80	1
	6 in	2ME81	1
7/8 in	2 in	2ME82	1
	3 in	2ME84	1
	3 1/2 in	2ME85	1
1 in	2 in	2ME89	1
	2 1/2 in	2ME91	1
	3 in	2ME93	1
	3 1/2 in	2ME94	1
	4 in	2ME95	1
	4 1/2 in	2ME96	1
	5 in	2ME97	1
Hardened Steel, Plain Finish			
2 mm	6 mm	1TY51	100
	10 mm	1TY55	100
	12 mm	1TY57	100
3 mm	6 mm	1TY73	100
	8 mm	1TY75	100
	10 mm	1TY77	100
	12 mm	1TY79	100
	16 mm	1TY81	100
	18 mm	1TY83	100
	20 mm	1TY84	100
	22 mm	1TY86	50
	24 mm	1TY88	100
4 mm	8 mm	1TY96	100
	10 mm	1TY98	100
	12 mm	1UA10	100
	14 mm	1UA12	100
	16 mm	1UA14	100
	18 mm	1UA16	100
	20 mm	1UA18	100
	22 mm	1UA20	50
	24 mm	1UA22	50
	28 mm	1UA24	50
	30 mm	1UA26	50
	32 mm	1UA28	50
	40 mm	1UA30	50
5 mm	10 mm	1UA32	50
	12 mm	1UA34	50
	14 mm	1UA36	50
	16 mm	1UA38	50
6 mm	22 mm	1UA57	50
12 mm	100 mm	1UB14	5
16 mm	36 mm	1UB15	5
	45 mm	1UB17	5
	70 mm	1UB20	5
Press Fit			
416 Stainless Steel			
2 mm	5 mm	5EDE2	10
	8 mm	5EDE4	10
2.5 mm	10 mm	5EDF4	10
3 mm	8 mm	5EDG1	10
	10 mm	5EDG2	10
	20 mm	5EDG6	10
	24 mm	5EDG7	10

Nom. Dia.	Length	Item No.	Pkg. Qty.
4 mm	10 mm	5EDG8	10
	12 mm	5EDG9	10
	14 mm	5EDH0	10
	16 mm	5EDH1	10
	20 mm	5EDH2	10
5 mm	12 mm	5EDH5	10
	16 mm	5EDH6	10
	20 mm	5EDH7	10
	24 mm	5EDH8	10
	30 mm	5EDH9	10
6 mm	16 mm	5EDJ1	10
	20 mm	5EDJ2	10
	24 mm	5EDJ3	10
	30 mm	5EDJ4	10
	40 mm	5EDJ5	10
8 mm	24 mm	5EDJ8	10
	30 mm	5EDJ9	10
10 mm	30 mm	5EDK4	10
	40 mm	5EDK5	10
Oversized, Mil Spec			
1/16 in	3/16 in	5EEF9	25
	3/8 in	5EEG2	25
	7/16 in	5EEG3	25
	1/2 in	5EEG4	25
	5/8 in	5EEG5	25
	3/4 in	5EEG6	25
5/64 in	1/4 in	5EEG7	25
3/32 in	5/16 in	5EEG8	25
	1/2 in	5EEH1	25
1/8 in	3/8 in	5EEH6	25
	1/2 in	5EEH8	25
	5/8 in	5EEH9	25
	3/4 in	5EEJ0	25
	7/8 in	5EEJ1	25
	1 in	5EEJ2	25
	1 1/4 in	5EEJ3	25
	1 1/2 in	5EEJ4	25
5/32 in	7/8 in	5EEJ8	25
	1 in	5EEJ9	25
3/16 in	5/8 in	5EEK1	25
	1 in	5EEK4	25
	1 1/4 in	5EEK5	25
	1 1/2 in	5EEK6	25
1/4 in	3/4 in	5EEK7	25
	1 in	5EEK9	25
	1 1/2 in	5EEL1	25
	2 in	5EEL3	25
5/16 in	1 1/4 in	5EEL5	25
3/8 in	1 1/4 in	5EEN0	25
	1 1/2 in	5EEN1	25
	2 in	5EEN3	25
	2 1/2 in	5EEN5	25

Slotted Spring Pins

Note: 420 stainless steel and zinc-plated carbon steel pins are also available; on Grainger.com, search for "slotted spring pins."

Nominal Dia.	Actual Dia. Min. to Max.	Wall Thickness
Standard		
1/16"	0.066 to 0.069"	0.012"
5/64"	0.083 to 0.086"	0.018"
3/32"	0.099 to 0.103"	0.022"
1/8"	0.131 to 0.135"	0.028"
5/32"	0.162 to 0.167"	0.032"
3/16"	0.194 to 0.199"	0.040"
7/32"	0.226 to 0.232"	0.048"
1/4"	0.258 to 0.264"	0.048"
5/16"	0.321 to 0.330"	0.062"
3/8"	0.385 to 0.395"	0.077"
7/16"	0.448 to 0.459"	0.077"
1/2"	0.513 to 0.524"	0.094"
5/8"	0.640 to 0.653"	0.118"
Metric		
M1.5	1.70 to 1.80mm	0.30mm
M2	2.30 to 2.40mm	0.40mm
M2.5	2.80 to 2.90mm	0.50mm
M3	3.30 to 3.50mm	0.60mm
M4	4.40 to 4.60mm	0.80mm
M5	5.40 to 5.60mm	1.00mm
M6	6.40 to 6.70mm	1.20mm
M8	8.50 to 8.80mm	1.50mm
M10	10.50 to 10.80mm	2.00mm
M11	12.50 to 12.80mm	2.50mm

Overall Length	Item No.	Pkg. Qty.
302 Stainless Steel		
1/16 in Dia. 250 lb Shear Strength (Lbs.)		
1/4"	5BU67	100
5/16"	5BU68	100
3/8"	5BU69	100
7/16"	5BU70	100
1/2"	5BU71	100
5/8"	5BU72	100
3/4"	5BU73	100
7/8"	5BU74	100
1"	5BU75	100
5/64 in Dia. 460 lb Shear Strength (Lbs.)		
5/16"	5BU77	100
1/2"	5BU80	100
5/8"	5BU81	100
3/4"	5BU82	100
1"	5BU83	100
1 1/2"	5BU84	100
3/32 in Dia. 670 lb Shear Strength (Lbs.)		
1/4"	5BU85	100
3/8"	5BU87	100
7/16"	5BU88	100
1/2"	5BU89	100
9/16"	5BU90	100
5/8"	5BU91	100
3/4"	5BU92	100
7/8"	5BU93	100
1"	5BU94	100
1 1/8"	5BU95	100
1 1/4"	5BU96	100
1 1/2"	5BU97	100
1/8 in Dia. 1,090 lb Shear Strength (Lbs.)		
1/4"	5BU98	100
5/16"	5BU99	100
3/8"	5BY10	100
7/16"	5BY11	100
1/2"	5BY12	100
9/16"	5BY13	100
5/8"	5BY14	100
3/4"	5BY16	100
7/8"	5BY17	100
1"	5BY18	100
1 1/8"	5BY19	100
1 1/4"	5BY20	100
1 3/8"	5BY21	100
1 1/2"	5BY22	100
1 3/4"	5BY23	100
2"	5BY24	100
5/32 in Dia. 1,600 lb Shear Strength (Lbs.)		
1/2"	5BY25	100
5/8"	5BY26	100
3/4"	5BY27	100
1"	5BY29	100
1 1/8"	5BY30	100
1 1/4"	5BY31	100
1 1/2"	5BY32	100
1 3/4"	5BY33	50
2"	5BY34	50
2 1/2"	5BY35	50
3/16 in Dia. 2,425 lb Shear Strength (Lbs.)		
3/8"	5BY36	100
1/2"	5BY37	100
5/8"	5BY38	100
3/4"	5BY40	100
7/8"	5BY41	100
1"	5BY42	100
1 1/4"	5BY43	50
1 3/8"	5BY44	50
1 1/2"	5BY45	50
1 3/4"	5BY46	50
2"	5BY47	50
2 1/4"	5BY48	50
2 1/2"	5BY49	50
7/32 in Dia. 3,400 lb Shear Strength (Lbs.)		
1/2"	5BY50	50
3/4"	5BY52	50
1"	5BY53	50
1 1/4"	5BY54	50
1 1/2"	5BY55	50
1 3/4"	5BY56	25
2"	5BY57	25
2 1/2"	5BY58	25
1/4 in Dia. 4,100 lb Shear Strength (Lbs.)		
1/2"	5BY59	50
5/8"	5BY60	50
3/4"	5BY61	50
7/8"	5BY62	50
1"	5BY63	50
1 1/8"	5BY64	50
1 1/4"	5BY65	50
1 3/8"	5BY66	50
1 1/2"	5BY67	50
1 3/4"	5BY69	25
2"	5BY70	25
2 1/4"	5BY71	25
2 1/2"	5BY72	25
3"	5BY73	10
3 1/2"	5BY74	10
5/16 in Dia. 6,300 lb Shear Strength (Lbs.)		
3/4"	5BY75	25
1"	5BY76	25
1 1/4"	5BY77	25
1 1/2"	5BY78	25
1 3/4"	5BY79	25
2"	5BY80	10
2 1/2"	5BY82	10
3"	5BY83	10
3 1/2"	5BY84	10
4"	5BY85	10
3/8 in Dia. 9,500 lb Shear Strength (Lbs.)		
3/4"	5BY86	10
1"	5BY87	10
1 1/4"	5BY88	10
1 1/2"	5BY89	10
1 3/4"	5BY90	10
2"	5BY91	10
2 1/4"	5BY92	10
2 1/2"	5BY93	10
2 3/4"	5BY94	10
3"	5BY95	10
3 1/2"	5BY96	5
4"	5BY97	5
7/16 in Dia. 11,500 lb Shear Strength (Lbs.)		
2"	5BY98	5
3"	5CA10	5
1/2 in Dia. 15,800 lb Shear Strength (Lbs.)		
1 1/2"	5CA14	5
2"	5CA16	5
3"	5CA18	5
4"	5CA20	5
2.5 mm Dia. 985 lb Shear Strength (Lbs.)		
10mm	5DB90	25
2 mm Dia. 634 lb Shear Strength (Lbs.)		
12mm	5DB76	25
2.5 mm Dia. 985 lb Shear Strength (Lbs.)		
20mm	5DB92	25
2 mm Dia. 634 lb Shear Strength (Lbs.)		
30mm	5DB88	25
2.5 mm Dia. 985 lb Shear Strength (Lbs.)		
30mm	5DB94	25
3 mm Dia. 1,421 lb Shear Strength (Lbs.)		
10mm	5DB98	25
14mm	5DE10	25
16mm	5DE12	25
20mm	5DE16	10
30mm	5DE24	10
40mm	5DE26	10
4 mm Dia. 2,527 lb Shear Strength (Lbs.)		
20mm	5DE38	10
26mm	5DE42	10
30mm	5DE44	10
45mm	5DE48	10
50mm	5DE50	10
5 mm Dia. 3,943 lb Shear Strength (Lbs.)		
16mm	5DE54	10
20mm	5DE56	10
26mm	5DE60	10
30mm	5DE62	10
40mm	5DE64	10
50mm	5DE66	10
6 mm Dia. 5,854 lb Shear Strength (Lbs.)		
20mm	5DE72	10
30mm	5DE78	10
40mm	5DE80	10
45mm	5DE82	10
50mm	5DE84	5
60mm	5DE86	10
8 mm Dia. 9,613 lb Shear Strength (Lbs.)		
22mm	5DE88	10
30mm	5DE90	10
40mm	5DE92	5
60mm	5DE96	1
10 mm Dia. 15,773 lb Shear Strength (Lbs.)		
30mm	5DE98	5
40mm	5DU10	5
60mm	5DU14	1
Carbon Steel		
1/16 in Dia. 430 lb Shear Strength (Lbs.)		
3/8"	5CU76	500
1/2"	5CU80	500
3/4"	5CU84	500
1"	5CU88	500
1/8 in Dia. 1,875 lb Shear Strength (Lbs.)		
1/4"	5CY39	500
3/16 in Dia. 4,150 lb Shear Strength (Lbs.)		
3/8"	5CY97	500
5/16 in Dia. 10,800 lb Shear Strength (Lbs.)		
1 1/2"	5DA94	100
5/8 in Dia. 27,100 lb Shear Strength (Lbs.)		
3"	5DB60	1
2 mm Dia. 634 lb Shear Strength (Lbs.)		
6mm	5DU22	200
10mm	5DU26	200
12mm	5DU28	200
18mm	5DU34	200
20mm	5DU36	200
2.5 mm Dia. 985 lb Shear Strength (Lbs.)		
20mm	5DU42	200
2 mm Dia. 634 lb Shear Strength (Lbs.)		
24mm	5DU38	200
30mm	5DU40	200
2.5 mm Dia. 985 lb Shear Strength (Lbs.)		
30mm	5DU44	100
3 mm Dia. 1,421 lb Shear Strength (Lbs.)		
8mm	5DU46	200
10mm	5DU48	200
12mm	5DU49	200
14mm	5DU51	200
16mm	5DU53	200
18mm	5DU55	200
20mm	5DU57	200
24mm	5DU59	100
26mm	5DU61	100
30mm	5DU63	100
40mm	5DU65	100
4 mm Dia. 2,527 lb Shear Strength (Lbs.)		
10mm	5DU67	100
12mm	5DU70	100
16mm	5DU74	100
20mm	5DU77	100
24mm	5DU79	100
26mm	5DU81	100
30mm	5DU83	100
32mm	5DU86	100
40mm	5DU88	100
50mm	5DU92	100
5 mm Dia. 3,943 lb Shear Strength (Lbs.)		
16mm	5DU96	100
20mm	5DU98	100
24mm	5DV12	100
26mm	5DV14	100
30mm	5DV16	100
40mm	5DV18	100
50mm	5DV20	100
6 mm Dia. 5,854 lb Shear Strength (Lbs.)		
12mm	5DV22	100
16mm	5DV26	100
20mm	5DV28	100
24mm	5DV30	100
26mm	5DV32	100
30mm	5DV34	100
40mm	5DV36	100
45mm	5DV38	50
50mm	5DV40	50
60mm	5DV42	25
8 mm Dia. 9,613 lb Shear Strength (Lbs.)		
22mm	5DV44	50
26mm	5DV46	50
30mm	5DV48	50
40mm	5DV50	50
50mm	5DV52	50
60mm	5DV56	25
10 mm Dia. 15,773 lb Shear Strength (Lbs.)		
24mm	5DV58	25
30mm	5DV60	25
40mm	5DV62	25
50mm	5DV64	25
60mm	5DV66	25
80mm	5DV68	10
12 mm Dia. 23,403 lb Shear Strength (Lbs.)		
30mm	5DV70	10
40mm	5DV72	10
50mm	5DV74	10
60mm	5DV76	10

Carbon Steel Coiled Spring Pins

Reusable pins absorb and distribute shock-and-vibration throughout the pin cross-section. Meet ASME standard.

Note: 420 stainless steel are also available; on Grainger.com®, search for "coiled spring pins."

Length	Fits Hole Dia.	Actual Dia.	Item No.	Pkg. Qty.
Standard Duty				
1/16 in Dia. 330 lb Shear Strength (Lbs.)				
5/16 in	0.061-0.065 in	0.067-0.072 in	5EA62	100
3/4 in	0.061-0.065 in	0.067-0.072 in	5EA66	100
1 in	0.061-0.065 in	0.067-0.072 in	5EA68	100
5/64 in Dia. 550 lb Shear Strength (Lbs.)				
1 in	0.077-0.081 in	0.083-0.088 in	5EA80	100
3/32 in Dia. 775 lb Shear Strength (Lbs.)				
1/4 in	0.093-0.097 in	0.099-0.105 in	5EA82	100
1 1/2 in	0.093-0.097 in	0.099-0.105 in	5EA94	100
1/8 in Dia. 1,400 lb Shear Strength (Lbs.)				
1/4 in	0.124-0.129 in	0.131-0.138 in	5EA96	100
1 1/2 in	0.124-0.129 in	0.131-0.138 in	5EB22	100
2 in	0.124-0.129 in	0.131-0.138 in	5EB24	100
3/16 in Dia. 3,150 lb Shear Strength (Lbs.)				
2 1/2 in	0.185-0.192 in	0.196-0.205 in	5EB50	50
1/2 in	0.185-0.192 in	0.196-0.205 in	5EB40	100
7/32 in Dia. 3,800 lb Shear Strength (Lbs.)				
3/4 in	0.217-0.224 in	0.228-0.238 in	5EB51	50
1 in	0.217-0.224 in	0.228-0.238 in	5EB53	50
1 1/2 in	0.217-0.224 in	0.228-0.238 in	5EB55	50
2 in	0.217-0.224 in	0.228-0.238 in	5EB57	50
1/4 in Dia. 5,500 lb Shear Strength (Lbs.)				
3 1/2 in	0.247-0.256 in	0.260-0.271 in	5EB73	50
2 1/2 in	0.247-0.256 in	0.260-0.271 in	5EB69	50
5/16 in Dia. 8,700 lb Shear Strength (Lbs.)				
4 in	0.308-0.319 in	0.324-0.337 in	5EB88	10
3/8 in Dia. 12,600 lb Shear Strength (Lbs.)				
1 in	0.370-0.383 in	0.388-0.403 in	5EB90	10
Heavy Duty				
3/32 in Dia. 1,150 lb Shear Strength (Lbs.)				
1/4 in	0.093-0.097 in	0.098-0.103 in	5EE12	100
1 1/2 in	0.093-0.097 in	0.098-0.103 in	5EE23	100
1/8 in Dia. 2,000 lb Shear Strength (Lbs.)				
7/16 in	0.124-0.129 in	0.130-0.136 in	5EE27	100
1 1/2 in	0.124-0.129 in	0.130-0.136 in	5EE41	50
2 in	0.124-0.129 in	0.130-0.136 in	5EE43	50
3/16 in Dia. 4,500 lb Shear Strength (Lbs.)				
2 1/2 in	0.185-0.192 in	0.194-0.202 in	5EE54	25
1/4 in Dia. 7,800 lb Shear Strength (Lbs.)				
1 1/8 in	0.247-0.256 in	0.258-0.268 in	5EE58	25
5/16 in Dia. 12,000 lb Shear Strength (Lbs.)				
1 in	0.308-0.319 in	0.322-0.334 in	5EE68	5

ITW Bee Leitzke

Retaining Ring Assortments

6LD28

No. of Sizes	No. of Pieces	Includes	Brand	Item No.
E-Style Retaining Ring Assortment				
9	300	(50) Each: E-25x1/4 in, E-37x3/8 in, (40) Each: E-18x3/16 in, E-50x1/2 in, (30) Each: E-6x1/16 in, E-12x1/8 in, (20) Each: E-62x5/8 in, E-75x3/4 in, E-87x7/8 in, and Plastic Container	Itw Bee Leitzke	**4F414**
12	255	(25) Each: E-12x1/8 in, E-15x5/32 in, E-18x3/16 in, SE-21x7/32 in, E-25x1/4 in, SE-31x5/16 in, E-37x3/8 in, E-43x7/16 in, E-50x1/2 in, (10) Each: E-62x5/8 in, E-75x3/4 in, E-87x7/8 in, and Plastic Container	—	**6LD26**
E-Style (Metric) Retaining Ring Assortment				
12	240	Groove Diameter (20) Each: 2.3mm, 3.2mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 12mm, 15mm, 19mm	—	**4KGD4**
External Retaining Ring Assortment				
12	218	(30) Each: SH-37x3/8 in, SH-50x1/2 in, (20) Each: SH-25x1/4 in, SH-31x5/16 in, SH-43x7/16 in, SH-56x9/16 in, SH-62x5/8 in, SH-75x3/4 in, (15) Each: SH-87x7/8 in, (10) Each: SH-81x13/16 in, SH-100x1 in, (3) Each: SH-125x1 ¼ in, and Plastic Container	Itw Bee Leitzke	**4F412**
12	240	(25) Each: SH-25x1/4 in, SH-31x5/16 in, SH-37x3/8 in, SH-43x7/16 in, SH-50x1/2 in, SH-56x9/16 in, SH-62x5/8 in, SH-75x3/4 in, (10) Each: SH-81x13/16 in, SH-87x7/8 in, SH-100x1 in, SH-125x1 ¼ in, and Plastic Container	—	**6LD35**
21	273	(25) Each: SH-25x1/4 in, SH-31x5/16 in, SH-37x3/8 in, SH-43x7/16 in, SH-50x1/2 in, SH-56x9/16 in, SH-62x5/8 in, SH-75x3/4 in, (10) Each: SH-81x13/16 in, SH-87x7/8 in, SH-100x1 in, SH-125x1 ¼ in and (5) Each: SH-131x1 5/16 in, SH-137x1 ⅜ in, SH-150x1 ½ in, SH-162x1 ⅝ in, SH-175x1 ¾ in, (2) Each: SH-200x2 in, SH-225x2 ¼ in, SH-250x2 ½ in, SH-262x2 ⅝ in, and Plastic Container	—	**6LD37**
External (Metric) Retaining Ring Assortment				
12	240	Shaft Diameter (20) Each: 8mm, 9mm, 10mm,12mm, 14mm,15mm, 16mm, 18mm, 19mm, 20mm, 22mm, 24mm	—	**4KGD2**
External and E-Style Retaining Ring Assortment				
23	540	E-Rings (30) Each: E-12x1/8 in, E-18x3/16 in, E-25x1/4 in, E-31x5/16 in, E-37x3/8 in, E-62x5/8 in, (25) Each: E-43x7/16 in, E-50x1/2 in, SE-74x3/4 in, (20) Each: E-87x7/8 in, External Rings (30) Each: SH-37x3/8 in, SH-50x1/2 in, (25) Each: SH-31x5/16 in, SH-62x5/8 in, SH-75x3/4 in, SH-98x63/64 in, (20) Each: SH-43x7/16 in, SH-93x15/16 in, SH-100x1 in, (15) Each: SH-112x1 ⅛ in, (10) Each: SH-125x1 ¼ in, SH-137x1 ⅜ in, SH-150x1 ½ in, Plastic Container, and Retaining Ring Pliers	Itw Bee Leitzke	**5A203**
Internal Retaining Ring Assortment				
12	180	(25) Each: HO-25x1/4 in, HO-37x3/8 in, HO-50x1/2 in, HO-62x5/8 in, HO-75x3/4 in, (10) Each: HO-87x7/8 in, HO-100x1 in, HO-112x1 ⅛ in, HO-125x1 ¼ in, (5) Each: HO-150x1 ½ in, HO-162x1 ⅝ in, HO-175x1 ¾ in and Plastic Container	—	**6LD28**
12	218	(30) Each: HO-37x3/8 in, HO-50x1/2 in, (20) Each: HO-25x1/4 in, HO-31x5/16 in, HO-43x7/16 in, HO-56x9/16 in, HO-62x5/8 in, HO-75x3/4 in, (15) Each: HO-87x7/8 in, (10) Each: HO-81x13/16 in, HO-100x1 in, (3) Each: HO-125x1 ¼ in, and Plastic Container	Itw Bee Leitzke	**4F413**
23	395	(25) Each: HO-25x1/4 in, HO-37x3/8 in, HO-50x1/2 in, HO-56x9/16 in, HO-62x5/8 in, (20) Each: HO-75x3/4 in, HO-77x0.777 in, HO-81x13/16 in, HO-87x7/8 in, HO-90x0.901 in, HO-93x15/16 in, HO-102x1.023 in, (15) Each: HO-100x1 in, HO-112x1 ⅛ in, HO-118x1 3/16 in, HO-125x1 ¼ in, (10) Each: HO-106x1 1/16 in, HO-131x1 5/16 in, HO-137x1 ⅜ in, HO-143x1 7/16 in, HO-150x1 ½ in, HO-156x1 9/16 in, HO-162x1 ⅝ in, Plastic Case, and Retaining Ring Pliers	Itw Bee Leitzke	**5A204**
25	243	(25) Each: HO-37x3/8 in, HO-43x7/16 in, HO-50x1/2 in, HO-62x5/8 in, HO-68x11/16 in, HO-75x3/4 in, (10) Each: HO-81x13/16 in, HO-87x7/8 in, HO-100x1 in, HO-106x1 1/16 in, HO-112x1 ⅛ in, HO-125x1 ¼ in, (5) Each: HO-137x1 ⅜ in, HO-150x1 ½ in, (3) Each: HO-162x1 ⅝ in, HO-175x1 ¾ in, HO-187x1 ⅞ in, HO-200x2 in, (2) Each: HO-225x2 ¼ in, HO-237x2 ⅜ in, HO-250x2 ½ in, HO-262x2 ⅝ in, (1) Each: HO-275x2 ¾ in, HO-287x2 ⅞ in, HO-300x3 in, and Plastic Container	—	**6LD30**
Internal/External/E-Style (Metric) Retaining Ring Assortment				
24	480	E-Rings (25) Each: DE-3.2x3.2mm, DE-4x4mm, DE-5x5mm, DE-6x6mm, DE-7x7mm, DE-8x8mm, DE-10x10mm, DE-12x12mm, Internal Rings (25) Each: DHO-8x8mm, DHO-10x10mm, DHO-12x12mm, DHO-14x14mm, (10) Each: DHO-16x16mm, DHO-18x18mm, DHO-20x20mm, DHO-24x24mm, External Rings (25) Each: DSH-8x8mm, DSH-10x10mm, DSH-12x12mm, DSH-14x14mm, (10) Each: DSH-16x16mm, DSH-18x18mm, DSH-20x20mm, DSH-24x24mm	—	**6LD33**
Internal (Metric) Retaining Ring Assortment				
12	240	Bore Diameter (20) Each: 8mm, 9mm, 10mm,12mm, 14mm,15mm, 16mm, 18mm, 19mm, 20mm, 22mm, 24mm	—	**4KGD3**
Internal and External Retaining Ring Assortment				
20	221	Internal Rings (15) Each: HO-37x3/8 in, HO-43x7/16 in, HO-50x1/2 in, (10) Each: HO-56x9/16 in, HO-62x5/8 in, HO-75x3/4 in, (9) Each: HO-87x7/8 in, HO-93x15/16 in, (8) Each: HO-100x1 in, HO-102x1.023 in, External Rings (20) Each: SH-25x1/4 in, SH-31x5/16 in, (15) Each: SH-37x3/8 in, SH-43x7/16 in, (10) Each: SH-50x1/2 in, (8) Each: SH-62x5/8 in, SH-68x11/16 in, (6) Each: SH-75x3/4 in, (5) Each: SH-78x25/32 in, SH-87x7/8 in, Plastic Container, and Retaining Ring Pliers	Itw Bee Leitzke	**4F420**
20	410	Internal Rings (25) Each: HO-37x3/8 in, HO-43x7/16 in, HO-50x1/2 in, HO-56x9/16 in, HO-62x5/8 in, HO-75x3/4 in, (10) Each: HO-87x7/8 in, HO-100x1 in, HO-112x1 ⅛ in, HO-125x1 ¼ in, External Rings (25) Each: SH-25x1/4 in, SH-31x5/16 in, SH-37x3/8 in, SH-43x7/16 in, SH-50x1/2 in, SH-62x5/8 in, SH-68x11/16 in, SH-75x3/4 in, (10) Each: SH-87x7/8 in, SH-100x1 in, and Plastic Container	—	**6LD32**

E-Style External Retaining Rings

Provide a large shoulder on small-diameter shafts. Snap directly into deep grooves from the side of the shaft to ensure extra thrust capacity. Inch-system rings meet ASME standard; metric-system rings meet DIN standard.

Note: Zinc-plated steel retaining rings are also available; on Grainger.com, search for "retaining rings."

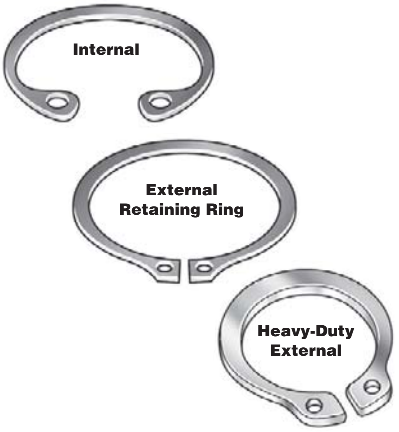
For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	BLACK PHOSPHATE STEEL Item No.	BLACK PHOSPHATE STEEL Pkg. Qty.	STAINLESS STEEL Item No.	STAINLESS STEEL Pkg. Qty.
E Style Retaining Ring									
1/16 in	0.052 in	0.012 in	0.051 in	0.14 in	0.01 in	**5DY81**	100	**5DE39**	100
3/32 in	0.074 in	0.02 in	0.073 in	0.187 in	0.015 in	—	—	**5DE41**	100
7/64 in	0.079 in	0.02 in	0.076 in	0.375 in	0.015 in	—	—	**5DE43**	25
⅛ in	0.095 in	0.02 in	0.094 in	0.23 in	0.015 in	**6LC51**	50	**5DE45**	100
9/64 in	0.102 in	0.02 in	0.1 in	0.203 in	0.015 in	—	—	**5DE47**	100
5/32 in	0.116 in	0.029 in	0.114 in	0.282 in	0.025 in	—	—	**5DE49**	25
11/64 in	0.127 in	0.029 in	0.125 in	0.312 in	0.025 in	—	—	**5DE51**	25
3/16 in	0.147 in	0.029 in	0.145 in	0.335 in	0.025 in	—	—	**5DE53**	25
7/32 in	0.188 in	0.029 in	0.185 in	0.437 in	0.025 in	—	—	**5DE55**	50
¼ in	0.21 in	0.029 in	0.207 in	0.527 in	0.025 in	—	—	**5DE57**	50
5/16 in	0.25 in	0.029 in	0.243 in	0.5 in	0.025 in	—	—	**5DE59**	50
⅜ in	0.303 in	0.039 in	0.3 in	0.66 in	0.035 in	—	—	**5DE61**	10
7/16 in	0.343 in	0.039 in	0.337 in	0.687 in	0.035 in	—	—	**5DE63**	10
½ in	0.396 in	0.046 in	0.392 in	0.8 in	0.042 in	—	—	**5DE65**	10
⅝ in	0.485 in	0.046 in	0.48 in	0.94 in	0.042 in	—	—	**5DE67**	10
¾ in	0.625 in	0.056 in	0.616 in	1.0 in	0.05 in	**5DY91**	50	**5DE69**	10
⅞ in	0.675 in	0.056 in	0.668 in	1.3 in	0.05 in	—	—	**5DE71**	1
1 in	0.835 in	0.056 in	0.822 in	1.5 in	0.05 in	—	—	**5DE73**	1
1 3/16 in	1.079 in	0.068 in	1.066 in	1.626 in	0.062 in	—	—	**5DE75**	1
1 ⅜ in	1.23 in	0.068 in	1.213 in	1.875 in	0.062 in	—	—	**5DE77**	1
3 mm	2.3 mm	0.64 mm	—	5.9 mm	0.6 mm	**5DV13**	100	**5DA32**	10
4 mm	3.2 mm	0.64 mm	—	6.9 mm	0.6 mm	**5DV15**	100	**5DA34**	10
5 mm	4.0 mm	0.74 mm	—	8.85 mm	0.7 mm	**5DV17**	100	**5DA36**	10
6 mm	5.0 mm	0.74 mm	—	10.85 mm	0.7 mm	**5DV19**	100	**5DA38**	10
7 mm	6.0 mm	0.74 mm	—	11.8 mm	0.7 mm	**5DV21**	100	**5DA40**	10
8 mm	7.0 mm	0.94 mm	—	13.8 mm	0.9 mm	**5DV23**	100	**5DA42**	10
9 mm	8.0 mm	1.05 mm	—	15.75 mm	1 mm	**5DV25**	100	**5DA44**	10
10 mm	9.0 mm	1.15 mm	—	18.2 mm	1.1 mm	**5DV27**	100	**5DA46**	10
11 mm	10.0 mm	1.25 mm	—	19.7 mm	1.2 mm	**5DV29**	100	**5DA48**	5
13 mm	12.0 mm	1.35 mm	—	22.7 mm	1.3 mm	**5DV31**	100	**5DA50**	5
16 mm	15.0 mm	1.55 mm	—	28.7 mm	1.5 mm	**5DV33**	50	**5DA52**	1
20 mm	19.0 mm	1.8 mm	—	36.5 mm	1.75 mm	**5DV35**	25	**5DA53**	1
25 mm	24.0 mm	2.05 mm	—	43.5 mm	2 mm	**5DV37**	10	**5DA55**	1
32 mm	30.0 mm	2.55 mm	—	51.3 mm	2.5 mm	**5DV39**	10	**5DA57**	1
Bowed E Style Retaining Ring									
⅛ in	0.095 in	0.022 in	0.094 in	0.23 in	0.01 in	**5CU11**	100	—	—
3/16 in	0.147 in	0.03 in	0.145 in	0.335 in	0.015 in	**5CU13**	100	—	—
¼ in	0.21 in	0.047 in	0.207 in	0.527 in	0.025 in	**5CU15**	100	—	—
⅜ in	0.303 in	0.06 in	0.3 in	0.66 in	0.035 in	**5CU17**	100	—	—
½ in	0.396 in	0.073 in	0.392 in	0.8 in	0.042 in	**5CU19**	100	—	—
⅝ in	0.485 in	0.077 in	0.48 in	0.94 in	0.042 in	**5CU21**	100	—	—
¾ in	0.58 in	0.085 in	0.574 in	1.12 in	0.05 in	**5CU23**	25	—	—

E-Style Retaining Ring Applicators

Easily and quickly install standard radial retaining rings on a shaft.

Ring Size	Blade Width	Blade Length	Tip Length	For Use With E-Style Rings	Item No.
0.062 in	0.265 in	1.438 in	0.375 in	5DE39 and 5CB85, 5DY81	**4VCY8**
0.094 in	0.5 in	1.438 in	0.375 in	5DE41 and 5CB87, 5DY83	**4VCY9**
0.11 in	0.5 in	1.438 in	0.375 in	5DE43 and 5CB89, 5DY85	**4VCZ1**
0.125 in	0.5 in	1.438 in	0.375 in	5DE45 and 5CB91, 6LC51	**4VCZ2**
0.14 in	0.5 in	1.438 in	0.375 in	5DE47 and 5CB93, 5DY87	**4VCZ3**
0.156 in	0.5 in	1.438 in	0.375 in	5DE49 and 5CB95, 6LC53	**4VCZ4**
0.172 in	0.5 in	1.438 in	0.375 in	5DE51 and 5CB97, 5DY89	**4VCZ5**
0.188 in	0.5 in	1.438 in	0.375 in	5DE53 and 5CB99, 6LC55	**4VCZ6**
0.219 in	0.812 in	2.218 in	0.593 in	5DE55 and 5CE11, 5EE98	**4VCZ7**
0.25 in	0.812 in	2.218 in	0.593 in	5DE57 and 5CE13, 6LC57	**4VCZ8**
0.312 in	0.812 in	2.218 in	0.593 in	5DE59 and 5CE15, 5EE99	**4VCZ9**
0.375 in	0.812 in	2.218 in	0.593 in	5DE61 and 5CE17, 6LC59	**4VDA1**
0.437 in	0.812 in	2.218 in	0.593 in	5DE63 and 5CE19, 6LC61	**4VDA2**
0.5 in	1.125 in	2.39 in	0.765 in	5DE65 and 5CE21, 6LC63	**4VDA3**
0.625 in	1.125 in	2.39 in	0.765 in	5DE67 and 5CE23, 6LC65	**4VDA4**
0.75 in	1.562 in	2.625 in	0.969 in	5DE69 and 5CE25, 5DY91	**4VDA5**
2.3 mm	0.5 in	1.438 in	0.375 in	5DV13 and 5DA32	**4VCX8**
3.2 mm	0.5 in	1.438 in	0.375 in	5DV15 and 5DA34	**4VCX9**
4 mm	0.5 in	1.438 in	0.375 in	5DV17 and 5DA36	**4VCY1**
5 mm	0.812 in	2.218 in	0.593 in	5DV19 and 5DA38	**4VCY2**
6 mm	0.812 in	2.218 in	0.593 in	5DV21 and 5DA40	**4VCY3**
7 mm	0.812 in	2.218 in	0.593 in	5DV23 and 5DA42	**4VCY4**
8 mm	0.812 in	2.218 in	0.593 in	5DV25 and 5DA44	**4VCY5**
9 mm	1.125 in	2.39 in	0.765 in	5DV27 and 5DA46	**4VCY6**
10 mm	1.125 in	2.39 in	0.765 in	5DV29 and 5DA48	**4VCY7**

4VCX8



Internal and External Retaining Rings

For axial assembly. Holes for pliers make installation and removal easy. Inch-system rings meet ASME standards; metric-system rings meet DIN standards.

Note: Zinc-plated steel retaining rings are also available; on Grainger.com, search for "retaining rings."

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	Item No.	Pkg. Qty.
Internal						
Stainless Steel						
1/4 in	0.268 in	0.02 in	0.28 in	0.015 in	**5DB51**	10
5/16 in	0.33 in	0.02 in	0.346 in	0.015 in	**5DB53**	10
3/8 in	0.397 in	0.029 in	0.415 in	0.025 in	**5DB55**	10
7/16 in	0.461 in	0.029 in	0.482 in	0.025 in	**5DB57**	10
1/2 in	0.53 in	0.039 in	0.548 in	0.035 in	**5DB59**	10
9/16 in	0.596 in	0.039 in	0.62 in	0.035 in	**5DB61**	10
5/8 in	0.665 in	0.039 in	0.694 in	0.035 in	**5DB63**	10
11/16 in	0.732 in	0.039 in	0.763 in	0.035 in	**5DB65**	5
3/4 in	0.796 in	0.039 in	0.831 in	0.035 in	**5DB67**	10
777/1000 in	0.825 in	0.046 in	0.859 in	0.042 in	**5DB69**	1
13/16 in	0.862 in	0.046 in	0.901 in	0.042 in	**5DB71**	1
7/8 in	0.931 in	0.046 in	0.971 in	0.042 in	**5DB73**	5
15/16 in	1.0 in	0.046 in	1.041 in	0.042 in	**5DB77**	1
1 in	1.066 in	0.046 in	1.111 in	0.042 in	**5DB79**	5
1 1/16 in	1.13 in	0.056 in	1.18 in	0.05 in	**5DB83**	1
1 1/8 in	1.197 in	0.056 in	1.249 in	0.05 in	**5DB85**	1
1 3/16 in	1.262 in	0.056 in	1.319 in	0.05 in	**5DB87**	1
1 5/16 in	1.396 in	0.056 in	1.456 in	0.05 in	**5DB91**	1
1 3/8 in	1.461 in	0.056 in	1.526 in	0.05 in	**5DB93**	1
1 7/16 in	1.528 in	0.056 in	1.596 in	0.05 in	**5DB95**	1
1 1/2 in	1.594 in	0.056 in	1.66 in	0.05 in	**5DB97**	1
1 9/16 in	1.658 in	0.068 in	1.734 in	0.062 in	**5DB99**	1
1 5/8 in	1.725 in	0.068 in	1.804 in	0.062 in	**5DE11**	1
1 11/16 in	1.792 in	0.068 in	1.874 in	0.062 in	**5DE13**	1
1 3/4 in	1.858 in	0.068 in	1.942 in	0.062 in	**5DE15**	1
1 7/8 in	1.989 in	0.068 in	2.072 in	0.062 in	**5DE17**	1
2 in	2.122 in	0.068 in	2.21 in	0.062 in	**5DE19**	1
2 1/8 in	2.251 in	0.086 in	2.35 in	0.078 in	**5DE21**	1
2 1/4 in	2.382 in	0.086 in	2.49 in	0.078 in	**5DE23**	1
2 3/8 in	2.517 in	0.086 in	2.63 in	0.078 in	**5DE25**	1
2 7/16 in	2.584 in	0.086 in	2.702 in	0.078 in	**5DE27**	1
2 1/2 in	2.648 in	0.086 in	2.775 in	0.078 in	**5DE29**	1
2 5/8 in	2.781 in	0.103 in	2.91 in	0.093 in	**5DE31**	1
2 3/4 in	2.914 in	0.103 in	3.05 in	0.093 in	**5DE33**	1
2 7/8 in	3.051 in	0.103 in	3.191 in	0.093 in	**5DE35**	1
3 in	3.182 in	0.103 in	3.325 in	0.093 in	**5DE37**	1

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	Item No.	Pkg. Qty.
Internal Metric						
Carbon Steel						
9 mm	9.4 mm	0.9 mm	9.8 mm	0.8 mm	**5DU62**	100
10 mm	10.4 mm	1.1 mm	10.8 mm	1 mm	**5DU64**	100
12 mm	12.5 mm	1.1 mm	13.0 mm	1 mm	**5DU68**	100
14 mm	14.6 mm	1.1 mm	15.1 mm	1 mm	**5DU69**	100
16 mm	16.8 mm	1.1 mm	17.3 mm	1 mm	**5DU71**	100
18 mm	19.0 mm	1.1 mm	19.5 mm	1 mm	**5DU73**	50
20 mm	21.0 mm	1.1 mm	21.5 mm	1 mm	**5DU76**	50
22 mm	23.0 mm	1.1 mm	23.5 mm	1 mm	**5DU78**	50
24 mm	25.2 mm	1.3 mm	25.9 mm	1.2 mm	**5DU80**	50
28 mm	29.4 mm	1.3 mm	30.1 mm	1.2 mm	**5DU82**	50
32 mm	33.7 mm	1.3 mm	34.4 mm	1.2 mm	**5DU85**	25
34 mm	35.7 mm	1.6 mm	36.5 mm	1.5 mm	**5DU87**	1
40 mm	42.5 mm	1.85 mm	43.5 mm	1.75 mm	**5DU93**	1
50 mm	53.0 mm	2.15 mm	54.2 mm	2 mm	**5DU95**	1
60 mm	63.0 mm	2.15 mm	64.2 mm	2 mm	**5DU97**	1
70 mm	73.0 mm	2.65 mm	74.5 mm	2.5 mm	**5DU99**	1
80 mm	83.5 mm	2.65 mm	85.5 mm	2.5 mm	**5DV11**	1
Stainless Steel						
9 mm	9.4 mm	0.9 mm	9.8 mm	0.8 mm	**5CY80**	5
10 mm	10.4 mm	1.1 mm	10.8 mm	1 mm	**5CY82**	5
12 mm	12.5 mm	1.1 mm	13.0 mm	1 mm	**5CY86**	5
14 mm	14.6 mm	1.1 mm	15.1 mm	1 mm	**5CY88**	5
16 mm	16.8 mm	1.1 mm	17.3 mm	1 mm	**5CY90**	5
18 mm	19.0 mm	1.1 mm	19.5 mm	1 mm	**5CY92**	5
20 mm	21.0 mm	1.1 mm	21.5 mm	1 mm	**5CY94**	1
22 mm	23.0 mm	1.1 mm	23.5 mm	1 mm	**5CY96**	1
24 mm	25.2 mm	1.3 mm	25.9 mm	1.2 mm	**5CY98**	1
28 mm	29.4 mm	1.3 mm	30.1 mm	1.2 mm	**5DA10**	1
32 mm	33.7 mm	1.3 mm	34.4 mm	1.2 mm	**5DA14**	1
34 mm	35.7 mm	1.6 mm	36.5 mm	1.5 mm	**5DA16**	1
40 mm	42.5 mm	1.85 mm	43.5 mm	1.75 mm	**5DA22**	1
50 mm	53.0 mm	2.15 mm	54.2 mm	2 mm	**5DA24**	1
60 mm	63.0 mm	2.15 mm	64.2 mm	2 mm	**5DA26**	1
70 mm	73.0 mm	2.65 mm	74.5 mm	2.5 mm	**5DA28**	1
80 mm	83.5 mm	2.65 mm	85.5 mm	2.5 mm	**5DA30**	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Thickness	Item No.	Pkg. Qty.
External						
Stainless Steel						
1/4 in	0.23 in	0.029 in	0.225 in	0.025 in	**5DA59**	10
9/32 in	0.261 in	0.029 in	0.256 in	0.025 in	**5DA61**	10
5/16 in	0.29 in	0.029 in	0.281 in	0.025 in	**5DA63**	10
3/8 in	0.352 in	0.029 in	0.338 in	0.025 in	**5DA67**	10
7/16 in	0.412 in	0.029 in	0.395 in	0.025 in	**5DA71**	10
1/2 in	0.468 in	0.039 in	0.461 in	0.035 in	**5DA73**	10
9/16 in	0.53 in	0.039 in	0.521 in	0.035 in	**5DA75**	10
19/32 in	0.559 in	0.039 in	0.55 in	0.035 in	**5DA77**	10
5/8 in	0.588 in	0.039 in	0.579 in	0.035 in	**5DA79**	10
11/16 in	0.646 in	0.046 in	0.635 in	0.042 in	**5DA81**	10
3/4 in	0.704 in	0.046 in	0.693 in	0.042 in	**5DA83**	10
13/16 in	0.762 in	0.046 in	0.751 in	0.042 in	**5DA85**	10
7/8 in	0.821 in	0.046 in	0.81 in	0.042 in	**5DA87**	5
15/16 in	0.882 in	0.046 in	0.867 in	0.042 in	**5DA89**	5
1 in	0.94 in	0.046 in	0.925 in	0.042 in	**5DA93**	5
1 1/16 in	0.998 in	0.056 in	0.982 in	0.05 in	**5DA95**	5
1 1/8 in	1.059 in	0.056 in	1.041 in	0.05 in	**5DA97**	1
1 3/16 in	1.118 in	0.056 in	1.098 in	0.05 in	**5DA99**	1
1 1/4 in	1.176 in	0.056 in	1.156 in	0.05 in	**5DB11**	1
1 5/16 in	1.232 in	0.056 in	1.214 in	0.05 in	**5DB13**	1
1 3/8 in	1.291 in	0.056 in	1.272 in	0.05 in	**5DB15**	1
1 7/16 in	1.35 in	0.056 in	1.333 in	0.05 in	**5DB17**	1
1 1/2 in	1.406 in	0.056 in	1.387 in	0.05 in	**5DB19**	1
1 9/16 in	1.468 in	0.068 in	1.446 in	0.062 in	**5DB21**	1
1 5/8 in	1.529 in	0.068 in	1.503 in	0.062 in	**5DB23**	1
1 3/4 in	1.65 in	0.068 in	1.618 in	0.062 in	**5DB27**	1
1 7/8 in	1.769 in	0.068 in	1.735 in	0.062 in	**5DB29**	1
2 in	1.886 in	0.068 in	1.85 in	0.062 in	**5DB31**	1
2 1/8 in	2.003 in	0.086 in	1.964 in	0.078 in	**5DB33**	1
2 1/4 in	2.12 in	0.086 in	2.081 in	0.078 in	**5DB35**	1
2 3/8 in	2.239 in	0.086 in	2.197 in	0.078 in	**5DB37**	1
2 7/16 in	2.299 in	0.086 in	2.255 in	0.078 in	**5DB39**	1
2 1/2 in	2.36 in	0.086 in	2.313 in	0.078 in	**5DB41**	1
2 5/8 in	2.481 in	0.086 in	2.428 in	0.078 in	**5DB43**	1
2 3/4 in	2.602 in	0.103 in	2.543 in	0.093 in	**5DB45**	1
2 7/8 in	2.721 in	0.103 in	2.659 in	0.093 in	**5DB47**	1
3 in	2.838 in	0.103 in	2.775 in	0.093 in	**5DB49**	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Thickness	Item No.	Pkg. Qty.
External Metric						
Carbon Steel						
4 mm	3.8 mm	0.5 mm	3.7 mm	0.4 mm	**5DE81**	100
5 mm	4.8 mm	0.7 mm	4.7 mm	0.6 mm	**5DE83**	100
6 mm	5.7 mm	0.8 mm	5.6 mm	0.7 mm	**5DE85**	100
8 mm	7.6 mm	0.9 mm	7.4 mm	0.8 mm	**5DE89**	100
9 mm	8.6 mm	1.1 mm	8.4 mm	1 mm	**5DE91**	100
10 mm	9.6 mm	1.1 mm	9.3 mm	1 mm	**5DE93**	100
12 mm	11.5 mm	1.1 mm	11 mm	1 mm	**5DE95**	100
13 mm	12.4 mm	1.1 mm	11.9 mm	1 mm	**5DE97**	100
14 mm	13.4 mm	1.1 mm	12.9 mm	1 mm	**5DE99**	100
15 mm	14.3 mm	1.1 mm	13.8 mm	1 mm	**5DU11**	100
16 mm	15.2 mm	1.1 mm	14.7 mm	1 mm	**5DU13**	100
17 mm	16.2 mm	1.1 mm	15.7 mm	1 mm	**5DU15**	100
18 mm	17.0 mm	1.3 mm	16.5 mm	1.2 mm	**5DU17**	100
19 mm	18.0 mm	1.3 mm	17.5 mm	1.2 mm	**5DU19**	50
20 mm	19.0 mm	1.3 mm	18.5 mm	1.2 mm	**5DU21**	50
24 mm	22.9 mm	1.3 mm	22.2 mm	1.2 mm	**5DU23**	50
25 mm	23.9 mm	1.3 mm	23.2 mm	1.2 mm	**5DU25**	25
28 mm	26.6 mm	1.6 mm	25.9 mm	1.5 mm	**5DU27**	25
30 mm	28.6 mm	1.6 mm	27.9 mm	1.5 mm	**5DU29**	25
32 mm	30.3 mm	1.6 mm	29.6 mm	1.5 mm	**5DU31**	10
35 mm	33.0 mm	1.6 mm	32.2 mm	1.5 mm	**5DU35**	10
40 mm	37.5 mm	1.85 mm	36.5 mm	1.75 mm	**5DU41**	10
45 mm	42.5 mm	1.85 mm	41.5 mm	1.75 mm	**5DU43**	5
50 mm	47.0 mm	2.15 mm	45.8 mm	2 mm	**5DU45**	5
55 mm	52.0 mm	2.15 mm	50.8 mm	2 mm	**5DU47**	5
60 mm	57.0 mm	2.15 mm	55.8 mm	2 mm	**5DU50**	5
65 mm	62.0 mm	2.65 mm	60.8 mm	2.5 mm	**5DU52**	1
70 mm	67.0 mm	2.65 mm	65.5 mm	2.5 mm	**5DU54**	1
75 mm	72.0 mm	2.65 mm	70.5 mm	2.5 mm	**5DU56**	1
80 mm	76.5 mm	2.65 mm	74.5 mm	2.5 mm	**5DU58**	1
Stainless Steel						
4 mm	3.8 mm	0.5 mm	3.7 mm	0.4 mm	**5CY42**	10
5 mm	4.8 mm	0.7 mm	4.7 mm	0.6 mm	**5CY44**	10
6 mm	5.7 mm	0.8 mm	5.6 mm	0.7 mm	**5CY46**	10
8 mm	7.6 mm	0.9 mm	7.4 mm	0.8 mm	**5CY50**	10
9 mm	8.6 mm	1.1 mm	8.4 mm	1 mm	**5CY52**	10
10 mm	9.6 mm	1.1 mm	9.3 mm	1 mm	**5CY54**	5
12 mm	11.5 mm	1.1 mm	11 mm	1 mm	**5CY56**	5
13 mm	12.4 mm	1.1 mm	11.9 mm	1 mm	**5CY58**	5
14 mm	13.4 mm	1.1 mm	12.9 mm	1 mm	**5CY60**	5
15 mm	14.3 mm	1.1 mm	13.8 mm	1 mm	**5CY62**	5
16 mm	15.2 mm	1.1 mm	14.7 mm	1 mm	**5CY64**	5
17 mm	16.2 mm	1.1 mm	15.7 mm	1 mm	**5CY66**	1
18 mm	17.0 mm	1.3 mm	16.5 mm	1.2 mm	**5CY68**	1
19 mm	18.0 mm	1.3 mm	17.5 mm	1.2 mm	**5CY70**	1
20 mm	19.0 mm	1.3 mm	18.5 mm	1.2 mm	**5CY72**	1
24 mm	22.9 mm	1.3 mm	22.2 mm	1.2 mm	**5CY74**	1
25 mm	23.9 mm	1.3 mm	23.2 mm	1.2 mm	**5CY76**	1
Heavy-Duty External						
Carbon Steel						
1/2 in	0.468 in	0.056 in	0.46 in	0.05 in	**5CE35**	10
5/8 in	0.588 in	0.056 in	0.575 in	0.05 in	**5CE37**	10
3/4 in	0.704 in	0.086 in	0.689 in	0.078 in	**5CE39**	10
7/8 in	0.821 in	0.086 in	0.804 in	0.078 in	**5CE41**	10
1 in	0.938 in	0.086 in	0.906 in	0.078 in	**5CE43**	10
1 1/8 in	1.059 in	0.103 in	1.036 in	0.093 in	**5CE45**	10
1 1/4 in	1.174 in	0.103 in	1.15 in	0.093 in	**5CE47**	10
1 3/8 in	1.291 in	0.103 in	1.268 in	0.093 in	**5CE49**	10
1 1/2 in	1.406 in	0.12 in	1.38 in	0.109 in	**5CE51**	5
1 9/16 in	1.468 in	0.12 in	1.437 in	0.109 in	**5CE53**	5
1 3/4 in	1.65 in	0.12 in	1.608 in	0.109 in	**5CE55**	5
2 in	1.88 in	0.139 in	1.84 in	0.125 in	**5CE57**	5

Crescent External Retaining Rings

Ideal for low-clearance applications where radial installation is preferred. Zinc yellow-plated steel. Meet ASME standard.

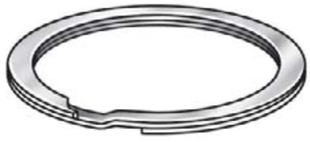
For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	Item No.	Pkg. Qty.
5/32 in	0.135 in	0.02 in	0.131 in	0.205 in	0.015 in	**5CU25**	100
3/16 in	0.165 in	0.02 in	0.161 in	0.244 in	0.015 in	**5CU27**	100
7/32 in	0.193 in	0.029 in	0.187 in	0.275 in	0.025 in	**5CU29**	100
1/4 in	0.22 in	0.029 in	0.211 in	0.311 in	0.025 in	**5CU31**	100
9/32 in	0.247 in	0.029 in	0.242 in	0.346 in	0.025 in	**5CU33**	100
5/16 in	0.276 in	0.029 in	0.27 in	0.376 in	0.025 in	**5CU35**	100
3/8 in	0.335 in	0.029 in	0.328 in	0.448 in	0.025 in	**5CU37**	100
7/16 in	0.393 in	0.029 in	0.386 in	0.517 in	0.025 in	**5CU39**	100
1/2 in	0.45 in	0.039 in	0.441 in	0.581 in	0.035 in	**5CU41**	100
9/16 in	0.507 in	0.039 in	0.497 in	0.653 in	0.035 in	**5CU43**	50
5/8 in	0.563 in	0.039 in	0.553 in	0.715 in	0.035 in	**5CU45**	100
3/4 in	0.676 in	0.046 in	0.665 in	0.845 in	0.042 in	**5CU47**	50
1 in	0.9 in	0.046 in	0.887 in	1.13 in	0.042 in	**5CU49**	50
1 1/8 in	1.013 in	0.056 in	0.997 in	1.267 in	0.05 in	**5CU51**	25
1 1/4 in	1.126 in	0.056 in	1.11 in	1.415 in	0.05 in	**5CU53**	25

Spiral Retaining Rings

Provide 360° coverage of the retained surface. Unique circumferential metal structure provides exceptional strength, stability, and even distribution of thrust loads. Wound from pretempered flat wire to exact tolerances. Meet ANSI standards.

Note: Additional sizes are available on Grainger.com; search for "retaining rings."

Internal
5EB17



External
5DY99

For Bore Dia.	Fits Groove Dia.	Fits Groove Width	Free O.D.	Thickness	CARBON STEEL Item No.	CARBON STEEL Pkg. Qty.	302 STAINLESS STEEL Item No.	302 STAINLESS STEEL Pkg. Qty.
Internal								
1/4 in	0.268 in	0.02 in	0.27 in	0.015 in	—	—	5EE26	10
5/16 in	0.33 in	0.02 in	0.333 in	0.015 in	—	—	5EE28	10
3/8 in	0.397 in	0.029 in	0.4 in	0.025 in	5EA75	25	5EE30	10
7/16 in	0.461 in	0.029 in	0.464 in	0.025 in	5EA77	25	5EE32	10
1/2 in	0.53 in	0.039 in	0.538 in	0.035 in	5EA79	25	5EE34	10
5/8 in	0.665 in	0.039 in	0.675 in	0.035 in	5EA81	25	5EE36	10
3/4 in	0.796 in	0.039 in	0.807 in	0.035 in	5EA83	25	5EE38	10
7/8 in	0.931 in	0.046 in	0.943 in	0.042 in	5EA85	10	5EE40	5
1 in	1.066 in	0.046 in	1.08 in	0.042 in	5EA87	10	5EE42	5
1 1/16 in	1.13 in	0.056 in	1.138 in	0.05 in	5EA89	5	5EE44	1
1 3/16 in	1.262 in	0.056 in	1.271 in	0.05 in	5EA93	5	5EE49	1
1 1/4 in	1.33 in	0.056 in	1.339 in	0.05 in	5EA95	10	5EE51	5
1 5/16 in	1.396 in	0.056 in	1.406 in	0.05 in	5EA97	5	5EE53	1
1 3/8 in	1.461 in	0.056 in	1.471 in	0.05 in	5EA99	10	5EE55	5
1 7/16 in	1.528 in	0.056 in	1.539 in	0.05 in	5EB11	5	5EE57	1
1 1/2 in	1.594 in	0.056 in	1.065 in	0.05 in	5EB13	10	5EE59	5
1 5/8 in	1.725 in	0.068 in	1.742 in	0.062 in	5EB15	10	5EE61	1
1 3/4 in	1.858 in	0.068 in	1.876 in	0.062 in	5EB17	10	5EE63	1
1 7/8 in	1.989 in	0.068 in	2.008 in	0.062 in	5EB19	10	5EE65	1
1 1/8 in	1.197 in	0.056 in	1.205 in	0.05 in	5EA91	10	5EE46	5
2 in	2.122 in	0.068 in	2.142 in	0.062 in	5EB21	5	5EE67	1
2 1/8 in	2.251 in	0.086 in	2.267 in	0.078 in	5EB23	5	5EE69	1
2 1/4 in	2.382 in	0.086 in	2.399 in	0.078 in	5EB25	5	5EE71	1
2 3/8 in	2.517 in	0.086 in	2.535 in	0.078 in	5EB27	5	5EE73	1
2 1/2 in	2.648 in	0.086 in	2.667 in	0.078 in	5EB29	5	5EE75	1
2 5/8 in	2.781 in	0.103 in	2.801 in	0.093 in	5EB31	5	5EE77	1
2 3/4 in	2.914 in	0.103 in	2.934 in	0.093 in	5EB33	5	5EE79	1
2 7/8 in	3.051 in	0.103 in	3.072 in	0.093 in	5EB35	5	5EE82	1
3 in	3.182 in	0.103 in	3.204 in	0.093 in	5EB37	5	5EE84	1
3 1/4 in	3.446 in	0.12 in	3.47 in	0.111 in	5EB39	1	5EE86	1
3 1/2 in	3.71 in	0.12 in	3.736 in	0.111 in	5EB41	1	5EE88	1
3 3/4 in	3.974 in	0.12 in	4.002 in	0.111 in	5EB43	1	5EE90	1
4 1/2 in	4.735 in	0.12 in	4.768 in	0.111 in	5EB47	1	5EE94	1
4 in	4.24 in	0.12 in	4.27 in	0.111 in	5EB45	1	5EE92	1
5 in	5.26 in	0.12 in	5.297 in	0.111 in	5EB49	1	5EE96	1

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Thickness	CARBON STEEL Item No.	CARBON STEEL Pkg. Qty.	302 STAINLESS STEEL Item No.	302 STAINLESS STEEL Pkg. Qty.
External							
1/4 in	0.23 in	0.029 in	0.025 in	5DY99	25	5EB52	10
5/16 in	0.29 in	0.029 in	0.025 in	5EA11	25	5EB54	10
3/8 in	0.352 in	0.029 in	0.025 in	5EA13	25	5EB56	10
7/16 in	0.412 in	0.029 in	0.025 in	5EA15	25	5EB58	10
1/2 in	0.468 in	0.039 in	0.035 in	5EA17	25	5EB60	10
5/8 in	0.039 in	0.588 in	0.035 in	5EA19	25	5EB62	10
3/4 in	0.704 in	0.046 in	0.042 in	5EA21	10	5EB64	5
7/8 in	0.821 in	0.046 in	0.042 in	5EA23	10	5EB66	5
1 in	0.94 in	0.046 in	0.042 in	5EA25	10	5EB68	5
1 1/8 in	1.059 in	0.056 in	0.05 in	5EA27	10	5EB70	5
1 1/4 in	1.176 in	0.056 in	0.05 in	5EA29	10	5EB72	5
1 3/8 in	1.291 in	0.056 in	0.05 in	5EA31	10	5EB74	5
1 1/2 in	1.406 in	0.056 in	0.05 in	5EA33	10	5EB76	5
1 5/8 in	1.529 in	0.068 in	0.062 in	5EA35	10	5EB78	1
1 3/4 in	1.65 in	0.068 in	0.062 in	5EA37	10	5EB80	1
1 7/8 in	1.769 in	0.068 in	0.062 in	5EA39	10	5EB83	1
2 in	1.886 in	0.068 in	0.062 in	5EA41	10	5EB85	1
2 1/8 in	2.003 in	0.086 in	0.078 in	5EA43	5	5EB87	1
2 1/4 in	2.12 in	0.086 in	0.078 in	5EA45	5	5EB89	1
2 3/8 in	2.239 in	0.086 in	0.078 in	5EA47	5	5EB91	1
2 1/2 in	2.36 in	0.086 in	0.078 in	5EA49	5	5EB93	1
2 5/8 in	2.481 in	0.086 in	0.078 in	5EA51	5	5EB95	1
2 3/4 in	2.602 in	0.103 in	0.093 in	5EA53	5	5EB97	1
3 in	2.838 in	0.103 in	0.093 in	5EA57	5	5EE11	1
3 1/4 in	3.076 in	0.103 in	0.093 in	5EA59	1	5EE13	1
3 1/2 in	3.316 in	0.12 in	0.111 in	5EA61	1	5EE15	1
4 in	3.792 in	0.12 in	0.111 in	5EA65	1	—	—
4 1/2 in	4.31 in	0.12 in	0.111 in	5EA67	1	5EE22	1
5 in	4.79 in	0.12 in	0.111 in	5EA69	1	5EE24	1
2 7/8 in	2.721 in	0.103 in	0.093 in	5EA55	5	5EB99	1
3 3/4 in	3.552 in	0.12 in	0.111 in	5EA63	1	5EE18	1

Self-Locking Retaining Rings

- Stainless Steel

Designed to push onto ungrooved shafts and bores. No groove required; frictional force is used to retain assemblies. Once installed, rings self-lock and are difficult to remove.

For Bore Dia.	Free O.D.	Thickness	Prongs	Item No.	Pkg. Qty.
Internal					
5/16 in	0.313 in	0.01 in	6	5CY32	5
1 in	1.002 in	0.015 in	10	5CY40	5
Internal Self-Locking Push-On					
1/2 in	0.502 in	0.01 in	6	5CY36	5
3/8 in	0.376 in	0.01 in	6	5CY34	5

Note: Additional sizes are available on Grainger.com; search for "retaining rings."

For Shaft Dia.	Free I.D.	Thickness	Prongs	Item No.	Pkg. Qty.
External					
1/2 in	0.498 in	0.015 in	10	5CU93	5
1/4 in	0.248 in	0.01 in	6	5CU87	5
1/8 in	0.123 in	0.01 in	4	5CU83	5
3/16 in	0.186 in	0.01 in	6	5CU85	5
3/4 in	0.748 in	0.015 in	14	5CU95	5
3/8 in	0.373 in	0.01 in	8	5CU91	5
5/16 in	0.31 in	0.01 in	8	5CU89	5
1 in	0.998 in	0.015 in	18	5CU97	5

Internal

External

Split External Retaining Rings

Install with any standard pliers to provide 360° closure. Remove by pressing on lugs to open. Zinc-plated steel.

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Thickness	Item No.	Pkg. Qty.
5/32 in	0.086 in	0.031 in	0.025 in	5CE79	100
3/16 in, 7/32 in	0.093 in	0.062 in	0.055 in	5CE81	100
1/4 in, 9/32 in	0.125 in	0.062 in	0.055 in	5CE83	100
5/16 in, 11/32 in	0.156 in	0.075 in	0.065 in	5CE85	100
3/8 in, 13/32 in	0.187 in	0.075 in	0.065 in	5CE87	100
7/16 in, 15/32 in	0.218 in	0.083 in	0.075 in	5CE89	50
1/2 in, 17/32 in	0.25 in	0.083 in	0.075 in	5CE91	50
9/16 in, 19/32 in	0.279 in	0.083 in	0.075 in	5CE93	25
5/8 in, 21/32 in	0.311 in	0.097 in	0.089 in	5CE95	25
11/16 in, 23/32 in	0.341 in	0.097 in	0.089 in	5CE97	25
3/4 in, 25/32 in	0.375 in	0.097 in	0.089 in	5CE99	25

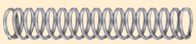
Poodle-Style External Retaining Rings

For large bearing surfaces. Unique, wide design offers extra retention surface against the retained part. Black phosphate-coated steel. Meet DIN specifications.

For Shaft Dia.	Fits Groove Dia.	Fits Groove Width	Free I.D.	Free O.D.	Thickness	Item No.	Pkg. Qty.
5/32 in	0.12 in	0.039 in	0.11 in	0.32 in	0.035 in	5CE59	100
3/16 in	0.148 in	0.039 in	0.14 in	0.4 in	0.035 in	5CE61	100
1/4 in	0.21 in	0.039 in	0.188 in	0.482 in	0.035 in	5CE63	100
5/16 in	0.272 in	0.046 in	0.25 in	0.588 in	0.042 in	5CE65	50
3/8 in	0.331 in	0.046 in	0.312 in	0.68 in	0.042 in	5CE67	50
7/16 in	0.39 in	0.056 in	0.375 in	0.752 in	0.05 in	5CE69	50
1/2 in	0.44 in	0.056 in	0.406 in	0.826 in	0.05 in	5CE71	50
5/8 in	0.531 in	0.056 in	0.5 in	0.966 in	0.05 in	5CE73	50
3/4 in	0.632 in	0.068 in	0.594 in	1.095 in	0.062 in	5CE75	50
1 in	0.86 in	0.086 in	0.812 in	1.415 in	0.078 in	5CE77	25

Spring Information

SPRING TYPES



Compression

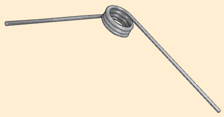
Shorten under load to absorb impact, apply pressure to surfaces, or protect against the effects of shock. See pages 2159 and 2160.

Disc

Convex discs generate high force within a very short length. Discs can be used singly or stacked in numerous combinations to achieve desired load and travel with minimal movement. See grainger.com/fasteners.

Extension (Tension)

Expand and elongate under load and have a hook, eye, or some other means of attachment at either end to allow attached pieces to give way and absorb impact, shock, or other forces. See page 2158.



Torsion

Ends rotate in angular deflection to offer resistance to externally applied torque. Commonly used over an arbor or mandrel for support, and in other applications where pressure needs to be maintained over a short distance. See page 2159.

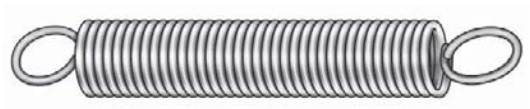
1NDW4

Spring Assortments

Note: See Grainger.com for specific contents.

No. of Sizes	No. of Pieces	Material	Item No.
Spring Assortment			
Compression			
8	16	Carbon Steel	**3HPU6**
50	100	Carbon Steel	**3HPU4**
Cut-to Length Compression, Double Loop Extension, and Extension			
40	90	Carbon Steel	**3HPU2**
Double Loop Extension			
25	25	Carbon Steel	**3HPU3**
Extension			
50	100	Carbon Steel	**3HPU5**
Extension, Cot Extension, Compression, and Adjustable Screen Door			
111	600	Carbon Steel	**3HPU8**
Extension and Compression			
20	20	Carbon Steel	**3HPU7**
40	123	High Carbon Steel	**1NDW4**
79	218	High Carbon Steel	**1NDW2**
Left Hand Torsion Spring			
12	36	Stainless Steel	**3HPV5**
44	44	Music Wire	**3HPV3**
Precision Compression			
75	150	High Carbon Steel	**1NDW6**
75	150	302 Stainless Steel	**1NDW8**
Right Hand Torsion Spring			
12	36	Stainless Steel	**3HPV6**
44	44	Music Wire	**3HPV4**

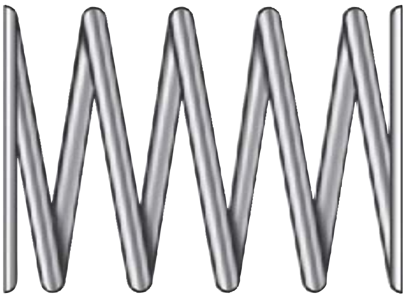
Utility Extension Springs



For use with OEM or maintenance and repair applications. Crossover center loop ends. Type 302 stainless steel meet ASTM A313 and AISI Type 302/304 standards. High carbon steel meet ASTM A227 standard.

Note: Additional sizes and ultra-precision extension springs are available on Grainger.com; search for "extension springs" or "ultra-precision extension springs."

Overall Length	Outside Dia.	Wire Dia.	Load (lb.)	Item No.	Pkg. Qty.
302 Stainless Steel, Plain					
1 in	0.1875 in	0.023 in	2.57	**1NAJ4**	6
	0.25 in	0.029 in	3.53	**1NAJ5**	6
	0.3125 in	0.035 in	2.77	**1NAJ6**	6
1 ¼ in	0.1875 in	0.023 in	2.57	**1NAJ7**	6
	0.25 in	0.029 in	3.53	**1NAJ8**	6
	0.3125 in	0.029 in	2.77	**1NAJ9**	6
	0.3125 in	0.035 in	4.91	**1NAK1**	6
	0.375 in	0.035 in	3.99	**1NAK2**	6
1 ½ in	0.25 in	0.029 in	3.53	**1NAK3**	6
	0.3125 in	0.035 in	2.77	**1NAK4**	6
	0.375 in	0.048 in	10.03	**1NAK5**	3
1 ¾ in	0.25 in	0.029 in	3.53	**1NAK6**	6
	0.3125 in	0.029 in	2.77	**1NAK7**	6
	0.3125 in	0.035 in	4.91	**1NAK8**	6
	0.375 in	0.035 in	3.99	**1NAK9**	6
	0.375 in	0.048 in	10.03	**1NAL1**	3
2 in	0.375 in	0.048 in	10.03	**1NAL2**	3
2 ¼ in	0.375 in	0.048 in	10.03	**1NAL3**	3
2 ½ in	0.1875 in	0.023 in	2.57	**1NAL4**	6
	0.3125 in	0.035 in	4.91	**1NAL5**	6
	0.375 in	0.048 in	10.03	**1NAL6**	3
	0.4375 in	0.048 in	8.5	**1NAL7**	3
2 ¾ in	0.375 in	0.048 in	10.03	**1NAL8**	3
	0.4375 in	0.048 in	8.5	**1NAL9**	6
3 in	0.375 in	0.048 in	10.03	**1NAN1**	3
	0.4375 in	0.048 in	8.5	**1NAN2**	6
3 ¼ in	0.4375 in	0.048 in	8.5	**1NAN3**	6
3 ½ in	0.4375 in	0.048 in	8.5	**1NAN4**	6
4 in	0.4375 in	0.048 in	8.5	**1NAN5**	6
	0.5 in	0.063 in	14.44	**1NAN6**	3
	0.5781 in	0.072 in	19.37	**1NAN7**	3
High Carbon Steel, Zinc-Plated					
1 in	0.1875 in	0.023 in	2.3	**1MZX5**	12
	0.25 in	0.029 in	3.28	**1MZX6**	12
	0.3125 in	0.029 in	2.62	**1MZX7**	12
	0.3125 in	0.035 in	4.65	**1MZX8**	12
1 ¼ in	0.1875 in	0.023 in	2.33	**1MZX9**	12
	0.25 in	0.029 in	3.31	**1MZY1**	12
	0.3125 in	0.029 in	2.62	**1MZY2**	12
	0.3125 in	0.035 in	4.61	**1MZY3**	12
	0.375 in	0.035 in	3.79	**1MZY4**	12
1 ½ in	0.1875 in	0.023 in	2.43	**1MZY5**	12
	0.25 in	0.029 in	3.37	**1MZY6**	12
	0.3125 in	0.029 in	2.62	**1MZY7**	12
	0.3125 in	0.035 in	4.67	**1MZY8**	12
	0.375 in	0.035 in	3.76	**1MZY9**	12
	0.375 in	0.048 in	9.59	**1MZZ1**	3
1 ¾ in	0.25 in	0.029 in	3.35	**1MZZ3**	12
	0.3125 in	0.029 in	2.61	**1MZZ4**	12
	0.3125 in	0.035 in	4.64	**1MZZ5**	12
	0.375 in	0.035 in	3.8	**1MZZ6**	12
	0.375 in	0.048 in	9.54	**1MZZ7**	3
2 in	0.1875 in	0.023 in	2.34	**1MZZ8**	12
	0.25 in	0.029 in	3.35	**1MZZ9**	12
	0.3125 in	0.029 in	2.61	**1NAA1**	12
	0.3125 in	0.035 in	4.65	**1NAA2**	6
	0.375 in	0.035 in	3.81	**1NAA3**	12
	0.375 in	0.048 in	9.53	**1NAA4**	3
2 ¼ in	0.25 in	0.029 in	3.37	**1NAA6**	12
	0.3125 in	0.029 in	2.62	**1NAA7**	12
	0.3125 in	0.035 in	4.57	**1NAA8**	12
	0.375 in	0.035 in	3.8	**1NAA9**	3
	0.375 in	0.048 in	9.53	**1NAB1**	3
2 ½ in	0.1875 in	0.023 in	2.39	**1NAB2**	12
	0.25 in	0.029 in	3.36	**1NAB3**	12
	0.3125 in	0.029 in	2.61	**1NAB4**	12
	0.3125 in	0.035 in	4.67	**1NAB5**	12
	0.375 in	0.035 in	3.81	**1NAB6**	3
	0.375 in	0.048 in	9.53	**1NAB7**	6
	0.4375 in	0.048 in	8	**1NAB8**	6
2 ¾ in	0.375 in	0.035 in	3.81	**1NAB9**	3
	0.375 in	0.048 in	9.53	**1NAC1**	6
	0.4375 in	0.048 in	8.03	**1NAC2**	12
3 in	0.375 in	0.035 in	3.8	**1NAC3**	3
	0.375 in	0.048 in	9.53	**1NAC4**	6
	0.4375 in	0.048 in	8.01	**1NAC5**	12
3 ¼ in	0.4375 in	0.048 in	8.02	**1NAC6**	12
3 ½ in	0.4375 in	0.048 in	8.02	**1NAC7**	12
3 ¾ in	0.4375 in	0.048 in	8.02	**1NAC8**	12
4 in	0.125 in	0.016 in	1.04	**1NAC9**	12
	0.1563 in	0.02 in	1.52	**1NAD2**	12
	0.1875 in	0.023 in	2.2	**1NAD3**	12
	0.2031 in	0.026 in	2.52	**1NAD4**	12
	0.2344 in	0.029 in	3.72	**1NAD5**	12
	0.25 in	0.032 in	4.56	**1NAD6**	6
	0.2813 in	0.035 in	7.08	**1NAD7**	6
	0.3281 in	0.041 in	7.37	**1NAD8**	6
	0.375 in	0.048 in	13.82	**1NAD9**	6
	0.4375 in	0.048 in	7.79	**1NAE1**	6
	0.4375 in	0.054 in	11.92	**1NAE2**	6
	0.5 in	0.063 in	16.61	**1NAE3**	3
	0.5781 in	0.072 in	22.28	**1NAE4**	3
6 in	0.125 in	0.016 in	1.07	**1NAE5**	6
	0.1563 in	0.02 in	1.5	**1NAE7**	6
	0.1875 in	0.023 in	1.8	**1NAE8**	6
	0.2031 in	0.026 in	2.6	**1NAE9**	6
	0.2344 in	0.029 in	3.9	**1NAF1**	6
	0.25 in	0.032 in	4.8	**1NAF2**	3
	0.2813 in	0.035 in	5.7	**1NAF3**	6
	0.3281 in	0.041 in	6.7	**1NAF4**	6
	0.375 in	0.048 in	9.6	**1NAF5**	6
	0.4375 in	0.054 in	10.8	**1NAF6**	6
	0.5 in	0.063 in	16.8	**1NAF7**	3
	0.5781 in	0.072 in	19.8	**1NAF8**	3
8 in	0.125 in	0.016 in	1.31	**1NAF9**	6
	0.1563 in	0.02 in	2.04	**1NAH2**	6
	0.1875 in	0.023 in	1.8	**1NAH3**	6
	0.25 in	0.032 in	4.5	**1NAH6**	6
	0.2813 in	0.035 in	7.2	**1NAH7**	6
	0.3281 in	0.041 in	7	**1NAH8**	6
	0.375 in	0.048 in	10.2	**1NAH9**	6
	0.4375 in	0.054 in	10.9	**1NAJ1**	6
	0.5 in	0.063 in	18.5	**1NAJ2**	6
	0.5781 in	0.072 in	24.6	**1NAJ3**	6



Precision Compression Springs

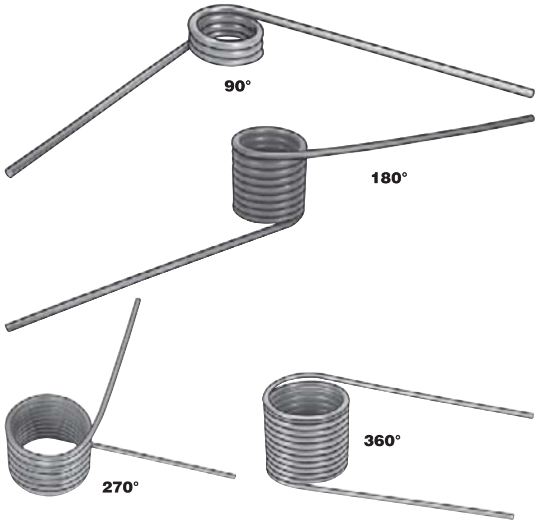
Manufactured to tighter load and dimensional tolerances.

Note: Additional sizes are available; on Grainger.com, search for "precision compression springs."

Type 302 Stainless Steel—Springs offer better corrosion resistance and perform well at up to 500°F. Meet ASTM A313 standards.

Overall Length	Outside Dia.	Wire Dia.	Compressed Length	Load (lb.)	Item No.	Pkg. Qty.
302 Stainless Steel						
¼ in	0.12 in	0.016 in	0.114 in	1.6	**1NCG3**	5
⅜ in	0.24 in	0.022 in	0.111 in	2	**1NCG4**	5
½ in	0.12 in	0.016 in	0.205 in	1.56	**1NCG5**	5
	0.12 in	0.022 in	0.309 in	3.62	**1NCG6**	5
	0.3 in	0.022 in	0.106 in	1.57	**1NCG8**	5
	0.36 in	0.032 in	0.145 in	3.75	**1NCG9**	5
	0.48 in	0.045 in	0.192 in	7.58	**1NCH1**	5
9⁄16 in	0.24 in	0.022 in	0.144 in	1.93	**1NCH3**	5
⅝ in	0.24 in	0.026 in	0.203 in	3.12	**1NCH4**	5
11⁄16 in	0.3 in	0.032 in	0.241 in	4.93	**1NCH7**	5
¾ in	0.18 in	0.016 in	0.177 in	1.06	**1NCJ1**	5
	0.24 in	0.038 in	0.39 in	8.81	**1NCJ2**	5
	0.36 in	0.026 in	0.138 in	2.1	**1NCJ3**	5
	0.6 in	0.072 in	0.397 in	22.09	**1NCJ4**	5
	0.72 in	0.055 in	0.221 in	8.81	**1NCJ5**	5
	0.72 in	0.063 in	0.284 in	12.92	**1NCJ6**	5
13⁄16 in	0.3 in	0.045 in	0.417 in	11.9	**1NCK1**	5
	0.36 in	0.038 in	0.201 in	6.17	**1NCK2**	5
⅞ in	0.24 in	0.026 in	0.287 in	3.13	**1NCK6**	5
	0.3 in	0.022 in	0.166 in	1.57	**1NCK7**	5
	0.36 in	0.032 in	0.209 in	3.83	**1NCK8**	5
	0.42 in	0.047 in	0.33 in	9.56	**1NCK9**	5
	0.48 in	0.038 in	0.21 in	4.64	**1NCL1**	5
	0.48 in	0.045 in	0.271 in	7.44	**1NCL2**	5
	0.48 in	0.055 in	0.373 in	6.65	**1NCL3**	5
	0.48 in	0.063 in	0.457 in	18.95	**1NCL4**	5
	0.6 in	0.045 in	0.226 in	6	**1NCL5**	5
1 in	0.18 in	0.032 in	0.601 in	7.01	**1NCL7**	5
	0.24 in	0.032 in	0.425 in	5.6	**1NCL8**	5
	0.3 in	0.026 in	0.229 in	2.54	**1NCL9**	5
	0.3 in	0.032 in	0.337 in	4.5	**1NCN1**	5
1 ⅛ in	0.36 in	0.026 in	0.19 in	2.13	**1NCN2**	5
1 ¼ in	0.6 in	0.072 in	0.596 in	25.49	**1NCN3**	5
	0.72 in	0.055 in	0.304 in	8.4	**1NCN4**	5
	0.72 in	0.063 in	0.441 in	12.98	**1NCN5**	5
	0.72 in	0.072 in	0.47 in	18.97	**1NCN6**	5
1 ½ in	0.24 in	0.038 in	0.772 in	8.92	**1NCN7**	5
	0.3 in	0.038 in	0.571 in	7.31	**1NCN9**	5
	0.36 in	0.032 in	0.338 in	3.8	**1NCP3**	5
	0.36 in	0.038 in	0.477 in	6.15	**1NCP4**	5
	0.36 in	0.042 in	0.527 in	8.09	**1NCP5**	5
	0.36 in	0.045 in	0.586 in	9.75	**1NCP6**	5
	0.42 in	0.038 in	0.381 in	5.31	**1NCP7**	5
	0.42 in	0.042 in	0.442 in	7	**1NCP8**	5
	0.42 in	0.055 in	0.661 in	14.93	**1NCP9**	5
	0.48 in	0.038 in	0.315 in	4.65	**1NCR1**	5
	0.48 in	0.042 in	0.379 in	6.16	**1NCR2**	5
	0.48 in	0.045 in	0.404 in	7.42	**1NCR3**	5
	0.48 in	0.055 in	0.565 in	13.19	**1NCR4**	5
	0.48 in	0.063 in	0.694 in	19.11	**1NCR5**	5
	0.6 in	0.045 in	0.35 in	6.01	**1NCR6**	5
	0.6 in	0.055 in	0.427 in	10.62	**1NCR7**	5
	0.6 in	0.063 in	0.552 in	15.39	**1NCR8**	5
1 ¾ in	0.6 in	0.067 in	0.705 in	18.19	**1NCR9**	5
2 in	0.6 in	0.072 in	0.939 in	22.31	**1NCT1**	5
	0.72 in	0.055 in	0.421 in	8.92	**1NCT2**	5
	0.72 in	0.063 in	0.616 in	13.01	**1NCT3**	5
	0.72 in	0.072 in	0.686 in	18.83	**1NCT5**	5

Overall Length	Outside Dia.	Wire Dia.	Compressed Length	Load (lb.)	Item No.	Pkg. Qty.
High Carbon Steel Music Wire						
½ in	0.12 in	0.016 in	0.205 in	1.87	**1NBY2**	5
	0.18 in	0.018 in	0.132 in	1.75	**1NBY4**	5
	0.3 in	0.022 in	0.106 in	1.89	**1NBY5**	5
	0.36 in	0.032 in	0.145 in	4.5	**1NBY6**	5
	0.48 in	0.045 in	0.192 in	9.1	**1NBY7**	5
⅝ in	0.24 in	0.032 in	0.273 in	6.72	**1NBZ2**	5
¾ in	0.24 in	0.038 in	0.39 in	10.58	**1NBZ8**	5
	0.36 in	0.026 in	0.138 in	2.52	**1NBZ9**	5
	0.6 in	0.072 in	0.397 in	26.52	**1NCA1**	5
	0.72 in	0.055 in	0.221 in	10.58	**1NCA2**	5
	0.72 in	0.063 in	0.284 in	15.51	**1NCA3**	5
13⁄16 in	0.3 in	0.045 in	0.417 in	14.28	**1NCA7**	5
	0.36 in	0.045 in	0.339 in	11.84	**1NCB1**	5
⅞ in	0.24 in	0.026 in	0.287 in	3.76	**1NCB3**	5
	0.48 in	0.055 in	0.373 in	15.58	**1NCB9**	5
	0.48 in	0.063 in	0.457 in	22.75	**1NCC1**	5
	0.6 in	0.045 in	0.226 in	7.2	**1NCC2**	5
	0.72 in	0.072 in	0.361 in	22.56	**1NCC3**	5
1 in	0.18 in	0.032 in	0.601 in	12.18	**1NCC4**	5
	0.24 in	0.032 in	0.425 in	6.72	**1NCC5**	5
	0.3 in	0.026 in	0.229 in	3.05	**1NCC6**	5
1 ⅛ in	0.36 in	0.026 in	0.19 in	2.56	**1NCC8**	5
1 ¼ in	0.6 in	0.072 in	0.596 in	30.6	**1NCC9**	5
	0.72 in	0.063 in	0.441 in	15.58	**1NCD2**	5
	0.72 in	0.072 in	0.47 in	22.77	**1NCD3**	5
1 ½ in	0.24 in	0.038 in	0.772 in	10.71	**1NCD4**	5
	0.3 in	0.045 in	0.743 in	14.04	**1NCD8**	5
	0.36 in	0.032 in	0.338 in	4.57	**1NCD9**	5
	0.36 in	0.042 in	0.527 in	9.72	**1NCE2**	5
	0.36 in	0.045 in	0.586 in	11.7	**1NCE3**	5
	0.42 in	0.038 in	0.381 in	6.37	**1NCE4**	5
	0.42 in	0.042 in	0.442 in	8.4	**1NCE5**	5
	0.42 in	0.055 in	0.661 in	17.92	**1NCE6**	5
	0.48 in	0.045 in	0.404 in	8.91	**1NCE9**	5
	0.48 in	0.055 in	0.565 in	15.84	**1NCF1**	5
	0.48 in	0.063 in	0.694 in	22.94	**1NCF2**	5
	0.6 in	0.045 in	0.35 in	7.22	**1NCF3**	5
	0.6 in	0.055 in	0.427 in	12.75	**1NCF4**	5
	0.6 in	0.063 in	0.552 in	18.48	**1NCF5**	5
2 in	0.6 in	0.072 in	0.939 in	26.78	**1NCF7**	5
	0.72 in	0.055 in	0.421 in	10.71	**1NCF8**	5
	0.72 in	0.063 in	0.616 in	15.62	**1NCF9**	5
	0.72 in	0.072 in	0.686 in	22.6	**1NCG2**	5



Torsion Springs

With straight legs and ends.

Note: Additional sizes are available; on Grainger.com, search for "torsion springs."

Outside Dia.	Wire Dia.	Leg Length	Max. Rod Outside Dia.	Spring Length @ Torque	No. of Coils	Torque @ ½ Leg Length (in.-lb.)*	Pkg. Qty.	302 STAINLESS STEEL RIGHT-HAND WOUND Item No.	302 STAINLESS STEEL LEFT-HAND WOUND Item No.
90° Angle of Deflection									
0.776 in	0.095 in	3 in	0.453 in	1.5 in	3.25	16.0	1	**3HPR6**	**3HPP3**
0.848 in	0.105 in	3.5 in	0.5 in	1.75 in	3.25	20.97	1	**3HPR7**	**3HPP4**
0.989 in	0.125 in	4 in	0.591 in	2 in	4.25	32.0	1	**3HPR9**	**3HPP6**
1.102 in	0.135 in	4 in	0.666 in	2 in	4.25	40.0	1	**3HPT2**	**3HPP8**
180° Angle of Deflection									
0.982 in	0.105 in	3.5 in	0.609 in	1.75 in	7.0	21.0	1	**3HPT1**	**3HPP7**
1.082 in	0.125 in	4 in	0.666 in	2 in	9.0	32.0	1	**3HPT3**	**3HPP9**
1.189 in	0.135 in	4 in	0.735 in	2 in	9.0	40.0	1	**3HPT4**	**3HPR1**
1.356 in	0.125 in	4 in	0.885 in	2 in	7.0	32.0	1	**3HPT5**	**3HPR2**
360° Angle of Deflection									
0.798 in	0.063 in	2 in	0.516 in	1 in	10.5	5.15	1	**3HPR8**	**3HPP5**
1.755 in	0.135 in	4 in	1.188 in	2 in	12.5	40.0	1	**3HPR5**	**3HPP2**

Outside Dia.	Wire Dia.	Leg Length	Max. Rod Outside Dia.	Spring Length @ Torque	No. of Coils	Torque @ ½ Leg Length (In.-lb.)*	Pkg. Qty.	CARBON STEEL MUSIC WIRE RIGHT-HAND WOUND Item No.	CARBON STEEL MUSIC WIRE LEFT-HAND WOUND Item No.
90° Angle of Deflection									
0.16 in	0.017 in	0.5 in	0.093 in	0.25 in	3.25	0.125	6	**3HPC3**	**3HPF8**
0.235 in	0.025 in	0.75 in	0.14 in	0.375 in	3.25	0.402	6	**3HPC4**	**3HPF9**
0.281 in	0.03 in	1 in	0.172 in	0.5 in	3.25	0.67	6	**3HPC5**	**3HPG1**
0.288 in	0.032 in	1 in	0.172 in	0.5 in	3.25	0.879	6	**3HPC6**	**3HPG2**
0.309 in	0.04 in	1.25 in	0.187 in	0.625 in	4.25	1.473	6	**3HPC8**	**3HPG4**
0.315 in	0.035 in	1.25 in	0.187 in	0.625 in	3.25	1.071	6	**3HPC7**	**3HPG3**
0.357 in	0.045 in	1.25 in	0.203 in	0.625 in	4.25	2.143	6	**3HPC9**	**3HPG5**
0.375 in	0.048 in	1.25 in	0.218 in	0.625 in	4.25	2.679	6	**3HPD1**	**3HPG6**
0.408 in	0.051 in	2 in	0.234 in	1.0 in	4.25	3.107	6	**3HPD2**	—
0.484 in	0.054 in	2 in	0.296 in	1 in	3.25	3.509	6	**3HPD3**	**3HPG8**
0.499 in	0.059 in	2 in	0.296 in	1 in	4.25	4.5	6	**3HPD4**	**3HPG9**
0.56 in	0.063 in	2 in	0.343 in	1 in	4.25	5.518	6	**3HPD5**	**3HPH1**
0.678 in	0.078 in	2 in	0.406 in	1 in	4.25	10.446	6	**3HPD6**	**3HPH2**
0.776 in	0.095 in	3 in	0.453 in	1.5 in	3.25	17.14	1	**3HPL9**	**3HPK6**
0.848 in	0.105 in	3.5 in	0.5 in	1.75 in	3.25	22.47	1	**3HPN1**	**3HPK7**
0.989 in	0.125 in	4 in	0.591 in	2 in	4.25	34.29	1	**3HPN3**	**3HPK9**
1.102 in	0.135 in	4 in	0.666 in	2 in	4.25	42.86	1	**3HPN5**	**3HPL2**
180° Angle of Deflection									
0.133 in	0.014 in	0.5 in	0.078 in	0.25 in	6.0	0.075	6	**3HPD8**	**3HPH4**
0.224 in	0.025 in	0.75 in	0.14 in	0.375 in	7.0	0.402	6	**3HPE3**	**3HPH8**
0.249 in	0.028 in	1 in	0.14 in	0.5 in	7.0	0.552	6	**3HPE4**	**3HPH9**
0.404 in	0.048 in	1.25 in	0.25 in	0.625 in	8.0	2.679	6	**3HPE6**	**3HPJ2**
0.767 in	0.063 in	2 in	0.5 in	1 in	6.0	5.518	6	**3HPE8**	**3HPJ4**
0.803 in	0.078 in	2 in	0.5 in	1 in	7.0	10.446	6	**3HPE9**	**3HPJ5**
0.982 in	0.105 in	3.5 in	0.609 in	1.75 in	7.0	22.5	1	**3HPN4**	**3HPL1**
1.082 in	0.125 in	4 in	0.666 in	2 in	9.0	34.28	1	**3HPN6**	**3HPL3**
1.189 in	0.135 in	4 in	0.735 in	2 in	9.0	42.86	1	**3HPN7**	**3HPL4**
1.356 in	0.125 in	4 in	0.885 in	2 in	7.0	34.29	1	**3HPN8**	**3HPL5**
270° Angle of Deflection									
0.556 in	0.045 in	2 in	0.359 in	1 in	7.75	2.143	6	**3HPF5**	**3HPK1**
0.826 in	0.07 in	2 in	0.531 in	1 in	8.75	7.5	6	**3HPF6**	**3HPK2**
1.342 in	0.105 in	3.5 in	0.891 in	1.75 in	7.75	22.5	1	**3HPN9**	**3HPL6**
1.666 in	0.135 in	4 in	1.112 in	2 in	9.75	42.86	1	**3HPL7**	—
360° Angle of Deflection									
0.271 in	0.021 in	1 in	0.187 in	0.5 in	9.5	0.234	6	**3HPF7**	**3HPK3**
0.798 in	0.063 in	2 in	0.516 in	1 in	10.5	5.52	1	**3HPN2**	**3HPK8**
90° Angle of Deflection									
0.408 in	0.051 in	2 in	0.234 in	1 in	3.25	3.107	6	—	**3HPG7**
270° Angle of Deflection									
1.666 in	0.135 in	4 in	1.112 in	2.0 in	9.75	42.86	1	—	**3HPK4**

** Torque @ ½ Leg Length is a reference.*

NAAMS Series Die Spring

ISO D Die Spring

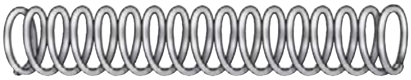
Raymond™

Die Springs

High-strength chromium alloy steel springs have ground square ends and are color-coded by duty performance for easy sorting and selection when replacement is needed. ISO D Die Springs are manufactured to ISO10243 standards and are designed to be interchangeable with other manufacturers' springs of the same size, type, and color.

Note: Additional sizes, materials, and slotted drive are available on Grainger.com®.

For Rod Size	For Hole Size	Overall Length	Standard Blue - Medium Duty Item No.	Pkg. Qty.	Standard Red - Medium Heavy Duty Item No.	Pkg. Qty.	Standard Gold - Heavy Duty Item No.	Pkg. Qty.	Standard Green - Extra Heavy Duty Item No.	Pkg. Qty.	ISO10243 Blue - Medium Duty Item No.	Pkg. Qty.	ISO10243 Green - Light Duty Item No.	Pkg. Qty.	ISO10243 Red - Heavy Duty Item No.	Pkg. Qty.
3⁄16"	3⁄8"	1"	44U469	10	44U573	10	44U671	10	44U769	10	44V034	10	44U924	10	44V146	10
		2"	44U473	1	44U577	1	44U675	1	44U773	1	44V038	1	44U928	1	44V150	1
		3"	44U475	1	44U579	1	44U677	1	44U775	1	44V040	1	44U930	1	44V152	1
		12"	44U476	1	44U580	1	44U678	1	44U776	1	44V041	1	44U931	1	44V153	1
9⁄32"	1⁄2"	1"	44U477	10	44U581	10	—	—	—	—	44V042	10	44U932	10	44V154	10
		2"	44U481	1	44U585	1	44U683	1	44U781	1	44V046	1	44U936	1	44V158	1
		3"	44U483	1	44U587	1	44U685	1	44U783	1	44V048	1	44U938	1	44V160	1
		12"	44U489	1	44U589	1	44U687	1	44U785	1	44V051	1	44U941	1	44V163	1
11⁄32"	5⁄8"	1"	44U490	10	44U590	1	44U688	1	44U786	1	44V052	1	44U942	10	44V164	1
		2"	44U494	1	44U594	1	44U692	1	44U790	1	44V056	1	44U946	1	44V168	1
		3"	44U496	1	44U596	1	44U694	1	44U792	1	44V058	1	44U948	1	44V170	1
		4"	44U498	1	44U598	1	44U696	1	44U794	1	44V060	1	44U950	1	44V172	1
		12"	44U499	1	44U599	1	44U697	1	44U795	1	44V062	1	44U952	1	44V174	1
3⁄8"	3⁄4"	1"	44U501	1	44U601	1	44U698	1	44U796	1	44V063	1	44U953	1	44V175	1
		2"	44U505	1	44U605	1	44U703	1	44U801	1	44V067	1	44U957	1	44V179	1
		3"	44U507	1	44U607	1	44U705	1	44U803	1	44V069	1	44U959	1	44V181	1
		4"	44U509	1	44U609	1	44U707	1	44U805	1	44V071	1	44U961	1	44V183	1
		5"	44U511	1	44U611	1	44U709	1	44U807	1	44V073	1	44U963	1	44V185	1
		6"	44U513	1	44U613	1	44U711	1	44U809	1	44V075	1	44U965	1	44V187	1
		12"	44U516	1	44U614	1	44U712	1	44U810	1	44V076	1	44U966	1	44V188	1
1⁄2"	1"	1"	44U517	1	44U615	1	44U713	1	—	—	44V077	1	44U967	1	44V189	1
		2"	44U521	1	44U619	1	44U717	1	44U812	1	44V081	1	44U971	1	44V193	1
		3"	44U523	1	44U621	1	44U719	1	44U814	1	44V083	1	44U973	1	44V195	1
		4"	44U525	1	44U623	1	44U721	1	44U816	1	44V085	1	44U975	1	44V197	1
		5"	44U527	1	44U625	1	44U723	1	44U818	1	44V087	1	44U977	1	44V199	1
		6"	44U529	1	44U627	1	44U725	1	44U819	1	44V089	1	44U979	1	44V202	1
		7"	44U530	1	44U628	1	44U726	1	—	—	44V090	1	44U980	1	44V203	1
		8"	44U531	1	44U629	1	44U727	1	—	—	44V091	1	44U981	1	44V204	1
		12"	44U532	1	44U630	1	44U728	1	44U820	1	44V092	1	44U982	1	44V205	1
5⁄8"	1¼"	2"	44U535	1	44U633	1	44U731	1	44U821	1	44V095	1	44U985	1	44V208	1
		3"	44U537	1	44U635	1	44U733	1	44U823	1	44V097	1	44U987	1	44V210	1
		4"	44U539	1	44U637	1	44U735	1	44U825	1	44V099	1	44U989	1	44V212	1
		5"	44U541	1	44U639	1	44U737	1	44U827	1	44V102	1	44U991	1	44V214	1
		6"	44U543	1	44U641	1	44U739	1	44U828	1	44V104	1	44U993	1	44V216	1
		7"	44U544	1	44U642	1	44U740	1	—	—	44V105	1	44U994	1	44V217	1
		8"	44U545	1	44U643	1	44U741	1	44U829	1	44V106	1	44U995	1	44V218	1
		10"	44U546	1	44U644	1	44U742	1	44U830	1	44V107	1	44U996	1	44V219	1
		12"	44U547	1	44U645	1	44U743	1	44U831	1	44V108	1	44U997	1	44V220	1
3⁄4"	1½"	2"	44U548	1	44U646	1	44U744	1	44U832	1	44V109	1	44U998	1	44V221	1
		3"	44U550	1	44U648	1	44U746	1	44U834	1	44V111	1	44V001	1	44V223	1
		4"	44U552	1	44U650	1	44U748	1	44U836	1	44V113	1	44V003	1	44V225	1
		5"	44U554	1	44U652	1	44U750	1	44U838	1	44V115	1	44V005	1	44V227	1
		6"	44U556	1	44U654	1	44U752	1	44U839	1	44V117	1	44V007	1	44V229	1
		7"	44U557	1	44U655	1	44U753	1	—	—	44V118	1	44V008	1	44V230	1
		8"	44U558	1	44U656	1	44U754	1	44U840	1	44V119	1	44V009	1	44V231	1
		10"	44U559	1	44U657	1	44U755	1	44U841	1	44V120	1	44V010	1	44V232	1
		12"	44U560	1	44U658	1	44U756	1	44U842	1	44V121	1	44V011	1	44V233	1
1"	2"	3"	44U562	1	44U660	1	44U758	1	44U844	1	44V123	1	44V013	1	44V235	1
		4"	44U564	1	44U662	1	44U760	1	44U846	1	44V125	1	44V015	1	44V237	1
		5"	44U566	1	44U664	1	44U762	1	44U848	1	44V127	1	44V017	1	44V239	1
		6"	44U568	1	44U666	1	44U764	1	44U849	1	44V129	1	44V019	1	44V241	1
		7"	44U569	1	44U667	1	44U765	1	—	—	44V130	1	44V020	1	44V242	1
		8"	44U570	1	44U668	1	44U766	1	44U850	1	44V131	1	44V021	1	44V243	1
		10"	44U571	1	44U669	1	44U767	1	44U851	1	44V133	1	44V022	1	44V244	1
		12"	44U572	1	44U670	1	44U768	1	44U852	1	44V134	1	44V023	1	44V245	1
1½"	2½"	3"	—	—	—	—	—	—	—	—	44V135	1	44V024	1	44V246	1
		4"	—	—	—	—	—	—	—	—	44V137	1	44V026	1	44V248	1
		5"	—	—	—	—	—	—	—	—	44V139	1	44V028	1	44V250	1
		6"	—	—	—	—	—	—	—	—	44V140	1	44V029	1	44V251	1
		7"	—	—	—	—	—	—	—	—	44V141	1	44V030	1	44V252	1
		8"	—	—	—	—	—	—	—	—	44V142	1	44V031	1	44V253	1
		9"	—	—	—	—	—	—	—	—	44V143	1	—	—	44V254	1
		10"	—	—	—	—	—	—	—	—	44V144	1	44V032	1	44V255	1
		12"	—	—	—	—	—	—	—	—	44V145	1	44V033	1	44V256	1



Utility Compression Springs

Excellent for static or low-cycle applications. For spring stock, determine spring rate by dividing the spring constant by the total number of coils used once the spring has been cut to the desired length. Meet ASTM A227 standard.

Note: Additional sizes are available; on Grainger.com®, search for "compression springs."

Overall Length	Outside Dia.	Wire Dia.	Pkg. Qty.	Item No.
Precut Springs - High Carbon Steel, Zinc-Plated, Closed Ends				
1 in	0.25 in	0.029 in	12	1NBV1
	0.312 in	0.029 in	12	1NBV2
	0.312 in	0.035 in	12	1NBV3
1 ¼ in	0.188 in	0.023 in	12	1NBV4
	0.375 in	0.035 in	12	1NBV5
1 ½ in	0.312 in	0.035 in	12	1NBV6
	0.375 in	0.048 in	12	1NBV7
2 in	0.188 in	0.023 in	12	1NBV8
	0.312 in	0.029 in	12	1NBV9
2 ½ in	0.25 in	0.029 in	12	1NBW1
	0.438 in	0.048 in	12	1NBW2

Outside Dia.	Wire Dia.	Coils per Inch	Constant	Item No.	Pkg. Qty.
12" Long Spring Stock					
High Carbon Steel, Pregalvanized Finish, Open Ends					
0.184 in	0.023 in	12	96.4	1NBW3	3
0.206 in	0.026 in	11	108.8	1NBW4	3
0.229 in	0.029 in	11	119.5	1NBW5	3
0.254 in	0.032 in	9.25	132.1	1NBW6	3
0.278 in	0.035 in	9.5	146.5	1NBW7	3
0.328 in	0.041 in	8	171.7	1NBW8	3
0.375 in	0.041 in	6	109.0	1NBW9	3
0.38 in	0.048 in	7	199.0	1NBX1	3
0.432 in	0.054 in	6.5	226.3	1NBX2	3
0.5 in	0.063 in	5	261.9	1NBX3	3
0.576 in	0.072 in	4.5	301.8	1NBX4	3
0.64 in	0.08 in	4.25	335.3	1NBX5	3
0.732 in	0.092 in	3.75	383.4	1NBX6	3
0.844 in	0.106 in	3.25	442.1	1NBX7	3
0.964 in	0.121 in	3	505.0	1NBX8	3

Anchor Information

DEFINITIONS

Minimum Embedment—Minimum depth in which the anchor must be set to function properly.

Tension Strength—Ultimate parallel load an anchor can withstand before pulling out of the base material.

Shear Strength—Ultimate perpendicular load an anchor can handle before breaking.

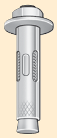
ANCHOR TYPES

Wedge

Fully threaded masonry with stud bolt body, split expansion ring, integral cone expander, nut, and washer. Use to fasten fixtures to a solid base material. See page 2162, 2163, 2164.

Drop-In

Internally threaded, shallow embedment anchors preassembled with an internal expansion plug for use in concrete. See page 2166.



Sleeve

Threaded stud with an outwardly flared cone-shaped end. Use to fasten steel, aluminum, wood panels, doors, framing, and shelving to concrete. See page 2165.

Expansion

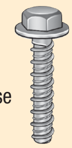
Provide quick installation of lightweight fixtures in masonry and concrete. Use with lag, wood, or sheet metal screws. See page 2163.

Stud

Use to anchor pipe run supports, blowers, pumps, and support racks. Bottom-bearing is for jacking and leveling items. See page 2163.

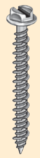
Hammer-Drive

Nail-like devices consisting of an expander drive pin and an expansion sleeve. Used to anchor items to brick and concrete surfaces. See page 2168.



Self-Threading

Removable structural anchors work in concrete or hollow block. For high-load capacity applications. See page 2167.



Masonry

Excellent for wood-to-concrete applications. Notched high-low threads cut into masonry for stability; tapered shank provides wedging action for a strong hold. Can be removed and reinstalled. See page 2167.

Hollow-Wall

For use in thin or hollow base materials like concrete block, drywall, paneling, or plaster. See pages 2168, 2170.

Drywall

Self-drilling anchors preserve drywall integrity at installation, and stay in place while screws back out easily. See page 2170.

Umbrella Anchor

Steel Wire Brush

Stainless Steel Anchor Screen

RED HEAD CONCRETE ANCHORING SYSTEMS

Anchor Accessories

Plastic Umbrella Anchor 5HE70 has a large bearing surface inside the block that provides consistent high-load capacity. For hollow-block fastening to face of concrete block, clay tile, or terra cotta.

Description	Brand	Item No.	Pkg. Qty.
Plastic Umbrella Anchor For ¼ to ½" Rod			
Fit ¾" Hole, Min. Hole Depth 3¾"	Red Head	5HE70	20
Epoxy Anchor Screen			
Stainless Steel			
Fit ⅜ in Hole, ¼ x 2 in	Red Head	4AL18	1
Fit ½ in Hole,	Red Head	4AL19	1
Fit ⅝ in Hole, ½ x 3½ in	Red Head	4AL23	1
Fit ¾ in Hole, ⅝ x 4½ in	Red Head	4AL27	1
Nylon			
Fit ⅝ in Hole, ½ x 6 in	Red Head	4UJ84	1
Fit ½ in Hole, ⅜ x 6 in	Red Head	4UJ86	1
Fit ½ in Hole, ⅜ x 8 in	Red Head	4UJ87	1
Fit ¾ in Hole, ⅝ x 6 in	Red Head	4UJ88	1
Wire Brushes			
Nylon			
½ in Hole Dia.	—	11M968	1
¾ in Hole Dia.	—	11M969	1
1 in Hole Dia.	—	11M970	1
1 ¼ in Hole Dia.	—	11M971	1
1 ½ in Hole Dia.	—	11M972	1
Steel			
⅜ in Hole Dia.	—	11M973	1
⅝ in Hole Dia.	—	11M974	1
1 in Hole Dia.	—	11M977	4
1 ¼ in Hole Dia.	—	11M978	4
1 ½ in Hole Dia.	—	11M979	4
1 ⅝ in Hole Dia.	—	11M980	4
1¼" Hole Dia.	—	11M981	4
Wire Brush Extension,w/SDS Adaptor	—	11M982	1
Wire Brush Manual Hand Tool	—	11M983	1

4AL07

4AL05

RED HEAD CONCRETE ANCHORING SYSTEMS

Condrive 1000 Tool and Bits

Condrive 1000 multipurpose tool for installation of all lengths of Tapcon hex head and Phillips flat head anchors. Note: For optimum performance bit diameter must equal anchor diameter.

Description	Item No.
Tapcon Condrive 1000 Tool	
Declutching Nosepiece on Drive Sleeve, Built-in Nosepiece Countersink	4AL05
Tapcon Slotted Shank Bits	
3⁄16 in Tapcon x 4 ½ in	4AL07
3⁄16 in Tapcon x 5 ½ in	4AL08
¼ in Tapcon x 4 ½ in	4AL10
¼ in Tapcon x 5 ½ in	4AL11

6JKW7

6JKW8

Anchor Drivers

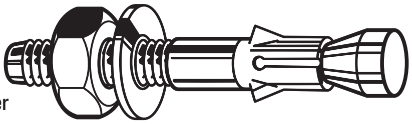
DFS/USA

- Straight shank bits

Description	Application	Brand	Item No.
Drivers			
Con-Sert Tool #8,For Masonry Screws	Drill and Set Con-sert Screws in Concrete, Brick, Stone, Wood, Vinyl and Light Steel	—	6JKW7
Replacement Drill Bit			
⅛ in, Carbide Steel, For Use With Hammer Drill, Regular Drill		Diversified Fastening Systems	6JKW8

Scan. Order. Done.
Details on page A1.

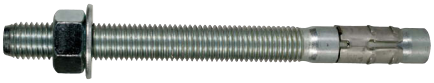
Wedge Anchors



- Include nuts and washer
- Non-seismic

Anchor Dia.	Anchor Length	Max. Work Thickness	Ultimate Tension in 4000 psi Concrete (lb.)	STEEL Thread Length	STEEL Item No.	STEEL Pkg. Qty.	STAINLESS STEEL Thread Length	STAINLESS STEEL Item No.	STAINLESS STEEL Pkg. Qty.
¼ in	1 ¾ in	⅛ in	1,870 lb	⅝ in	**31JP09**	50	—	—	—
	2 ¼ in	⅜ in	1,870 lb	1 ⅛ in	**31JP10**	50	1 ⅛ in	**31JP45**	50
	3 ¼ in	1 ⅜ in	1,870 lb	2 ⅛ in	**31JP11**	50	2 ⅛ in	**31JP46**	50
5⁄16 in	3 ½ in	1 ⅛ in	2,530 lb	—	—	—	2 ¼ in	**31JP47**	25
⅜ in	2 ¼ in	3⁄16 in	3,300 lb	¾ in	**31JP12**	25	¾ in	**31JP48**	25
	2 ¾ in	⅜ in	3,300 lb	1 ¼ in	**31JP13**	25	1 ¼ in	**31JP49**	25
	3 in	9⁄16 in	3,300 lb	1 ½ in	**31JP14**	10	1 ½ in	**31JP50**	10
	3 ¾ in	1 ⅛ in	3,300 lb	2 ¼ in	**31JP15**	10	2 ¼ in	**31JP51**	10
	5 in	2 ⅜ in	3,300 lb	3 ½ in	**31JP16**	10	3 ½ in	**31JP52**	10
½ in	2 ¾ in	⅛ in	5,280 lb	1 in	**31JP17**	10	1 in	**31JP53**	10
	3 ¾ in	11⁄16 in	5,280 lb	2 in	**31JP18**	10	2 in	**31JP54**	10
	4 ¼ in	¾ in	5,280 lb	2 ½ in	**31JP19**	10	2 ½ in	**31JP55**	10
	4 ½ in	1 ½ in	5,280 lb	2 ¾ in	**31JP20**	10	—	—	—
	5 ½ in	2 in	5,280 lb	3 ¾ in	**31JP21**	5	3 ¾ in	**31JP56**	5
	7 in	3 ⅛ in	5,280 lb	5 ¼ in	**31JP22**	5	5 ¼ in	**31JP57**	5
	8 ½ in	3 ⅛ in	5,280 lb	6 ¾ in	**31JP23**	5	—	—	—
⅝ in	3 ½ in	⅛ in	7,480 lb	1 5⁄16 in	**31JP24**	5	—	—	—
	4 ½ in	9⁄16 in	7,480 lb	2 5⁄16 in	**31JP25**	5	2 13⁄16 in	**31JP58**	5
	5 in	1 ⅛ in	7,480 lb	2 13⁄16 in	**31JP26**	2	3 13⁄16 in	**31JP59**	2
	6 in	2 in	7,480 lb	3 13⁄16 in	**31JP27**	2	4 13⁄16 in	**31JP60**	2
	7 in	3 ⅛ in	7,480 lb	4 13⁄16 in	**31JP28**	2	6 5⁄16 in	**31JP61**	2
	8 ½ in	3 ⅛ in	7,480 lb	6 5⁄16 in	**31JP29**	2	—	—	—
	10 in	3 ⅛ in	7,480 lb	7 13⁄16 in	**31JP30**	2	—	—	—
¾ in	4 ¼ in	9⁄16 in	11,880 lb	1 ¾ in	**31JP31**	2	1 ¾ in	**31JP62**	2
	4 ¾ in	1 in	11,880 lb	2 ¼ in	**31JP32**	2	2 ¼ in	**31JP63**	2
	5 ½ in	1 5⁄16 in	11,880 lb	3 in	**31JP33**	2	3 in	**31JP64**	2
	6 ¼ in	1 ¾ in	11,880 lb	3 ¾ in	**31JP34**	2	—	—	—
	7 in	2 in	11,880 lb	4 ½ in	**31JP35**	2	4 ½ in	**31JP65**	2
	8 ½ in	3 ⅛ in	11,880 lb	6 in	**31JP36**	2	6 in	**31JP66**	2
	10 in	3 ⅛ in	11,880 lb	7 ½ in	**31JP37**	2	—	—	—
	12 in	3 ⅛ in	11,880 lb	3 ¼ in	**31JP38**	2	—	—	—
	12 in	4 in	11,880 lb	—	—	—	3 ¼ in	**31JP67**	2
⅞ in	6 in	1 ⅛ in	12,980 lb	3 ½ in	**31JP39**	2	—	—	—
	8 in	3 ⅛ in	12,980 lb	3 ⅞ in	**31JP40**	2	—	—	—
	10 in	3 ⅛ in	12,980 lb	3 ⅞ in	**31JP41**	2	—	—	—
1 in	6 in	1 in	15,840 lb	2 ⅞ in	**31JP42**	1	2 ⅞ in	**31JP68**	1
	9 in	4 in	15,840 lb	3 ⅞ in	**31JP43**	1	3 ⅞ in	**31JP69**	1
	12 in	4 in	15,840 lb	3 ⅞ in	**31JP44**	1	—	—	—

Strong-Bolt 2 Seismic Wedge Anchors



SIMPSON Strong-Tie

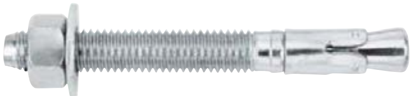
- Category 1 Anchor Classification
- Static tension and shear loading in cracked and uncracked concrete

Use in all structural applications, including racking, equipment shelving, bracing, and seating. Use in static, seismic, and wind loading applications. Comply with ICC-ES ESR-3037.

Tested per ICC-ES AC193 to meet current cracked concrete anchor codes.

Tension in Uncracked Concrete (lb.) 2500 psi	Tension in Uncracked Concrete (lb.) 6500 psi	Tension in Cracked Concrete (lb.) 2500 psi	Tension in Cracked Concrete (lb.) 6500 psi	Shear in Uncracked Concrete (lb.) 2500 psi	Shear in Uncracked Concrete (lb.) 6500 psi	Shear in Cracked Concrete (lb.) 2500 psi	Shear in Cracked Concrete (lb.) 6500 psi	Min. Embedment	Overall Length	Max. Work Thickness	Thread Length	Item. No.	Pkg. Qty.
⅜ in Anchor Dia.													
970	1560	570	920	790	790	740	790	1 ⅞ in	2 ¾ in	⅜ in	1 5⁄16 in	**13N542**	50
								1 ⅞ in	3 ½ in	1 ⅛ in	2 1⁄16 in	**13N544**	50
1465	2365	1220	1965			790		2 ⅞ in	3 ¾ in	⅜ in	2 5⁄16 in	**13N545**	50
								2 ⅞ in	5 in	1 ⅝ in	3 9⁄16 in	**13N546**	50
								2 ⅞ in	7 in	3 ⅝ in	5 9⁄16 in	**13N547**	50
½ in Anchor Dia.													
1585	2560	1260	2030	1790	2885	1275	2060	2 ¾ in	4 ¾ in	1 ¼ in	3 1⁄16 in	**24C192**	25
1590				1915	3090	1355	2190	2 ¾ in	3 ¾ in	½ in	2 1⁄16 in	**13A980**	25
2310	3720	1640	2645	3180	3180	3180	3180	3 ⅞ in	10 in	5 ⅝ in	6 in	**13A979**	25
								7 ¾ in	5 ½ in	1 ⅛ in	3 13⁄16 in	**13A982**	25
								7 ¾ in	7 in	2 ⅝ in	5 5⁄16 in	**13A983**	25
								7 ¾ in	8 ½ in	4 ⅛ in	6 in	**13A984**	25
⅝ in Anchor Dia.													
2405	3875	1700	2745	4845	4845	3665	4845	3 ⅜ in	4 ½ in	½ in	2 7⁄16 in	**13A986**	20
								3 ⅜ in	5 in	1 in	2 15⁄16 in	**13A987**	20
3965	6390	3030	4885			4845		5 ⅛ in	6 in	¼ in	3 15⁄16 in	**13A988**	20
								5 ⅛ in	7 in	1 ¼ in	4 15⁄16 in	**13A989**	20
								5 ⅛ in	8 ½ in	2 ¾ in	6 in	**13A990**	20
								5 ⅛ in	10 in	4 ¼ in	6 in	**13A985**	10
¾ in Anchor Dia.													
2765	4460	1960	3160	4320	4320	4320	4320	4 ⅛ in	5 ½ in	⅝ in	3 3⁄16 in	**13A992**	10
								4 ⅛ in	6 ¼ in	1 ⅜ in	3 15⁄16 in	**13A993**	10
3500	5645	3530	5695					5 ¾ in	10 in	3 ½ in	6 in	**13A991**	10
								5 ¾ in	7 in	½ in	4 11⁄16 in	**13A994**	10
								5 ¾ in	8 ½ in	2 in	6 in	**13N541**	10
1 in Anchor Dia.													
3105	5010	2860	4615	6090	6090	6090	6090	5 ¼ in	7 in	¾ in	3 ½ in	**13A978**	5
								5 ¼ in	10 in	3 ¾ in	3 ½ in	**13A976**	5
3600	5805	4155	6700					9 ¾ in	13 in	2 ¼ in	3 ½ in	**13A977**	5

Seismic Wedge Anchors



DEWALT ENGINEERED BY Powers

- Zinc-plated carbon steel

Use in Category 1 cracked and uncracked concrete. Include nut and washer. Meet or exceed IBC, IRC, and Florida Building Code. UL Listed; FM Approved.

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1⅛"	1660	1255
⅜"	1⅝"	3100	2540
½"	2¼"	4500	4195
⅝"	2¾"	6285	6815
¾"	3⅜"	9075	12,685
⅞"	3½"	15,125	11,690
1"	4½"	20,915	21,155
1¼"	5⅜"	28,440	29,105

Anchor Length	Min. Embedment	Thread Length	Item No.	Pkg. Qty.
¼ in Anchor Dia., ¼"-20 Thread				
1 ¾ in	1 ⅛ in	¾ in	**46U117**	100
2 ¼ in	1 ⅛ in	1 ¼ in	**46U118**	100
3 ¼ in	1 ⅛ in	2 ¼ in	**46U119**	100
⅜ in Anchor Dia., ⅜"-16 Thread				
2 ¼ in	1 ⅝ in	⅞ in	**46U120**	50
2 ¾ in	1 ⅝ in	1 ⅜ in	**46U121**	50
3 in	1 ⅝ in	1 ⅝ in	**46U122**	50
3 ½ in	1 ⅝ in	2 ⅛ in	**46U123**	50
3 ¾ in	1 ⅝ in	2 ⅜ in	**46U124**	50
5 in	1 ⅝ in	3 ⅝ in	**46U125**	50
7 in	1 ⅝ in	5 ⅝ in	**46U126**	50
½ in Anchor Dia., ½"-13 Thread				
2 ¾ in	2 ¼ in	1 in	**46U127**	50
3 ¾ in	2 ¼ in	2 in	**46U128**	50
4 ½ in	2 ¼ in	4 ½ in	**46U129**	50
5 ½ in	2 ¼ in	3 ¾ in	**46U130**	50
7 in	2 ¼ in	5 ¼ in	**46U131**	25
8 ½ in	2 ¼ in	6 ¾ in	**46U132**	25
10 in	2 ¼ in	8 ¼ in	**46U133**	25
⅝ in Anchor Dia., ⅝"-11 Thread				
3 ½ in	2 ¾ in	1 ½ in	**46U134**	25
4 ½ in	2 ¾ in	2 ½ in	**46U135**	25
5 in	2 ¾ in	3 in	**46U136**	25
6 in	2 ¾ in	4 in	**46U137**	25
7 in	2 ¾ in	5 in	**46U138**	25
8 ½ in	2 ¾ in	6 ½ in	**46U139**	25
10 in	2 ¾ in	8 in	**46U140**	25
¾ in Anchor Dia., ¾"-10 Thread				
4 ¼ in	3 ⅜ in	1 ¾ in	**46U141**	20
4 ¾ in	3 ⅜ in	2 ¼ in	**46U142**	20
5 ½ in	3 ⅜ in	3 in	**46U143**	20
6 ¼ in	3 ⅜ in	3 ¾ in	**46U144**	20
7 in	3 ⅜ in	4 ½ in	**46U145**	20
8 ½ in	3 ⅜ in	6 in	**46U146**	10
10 in	3 ⅜ in	7 ½ in	**46U147**	10
12 in	3 ⅜ in	9 ½ in	**46U149**	10
⅞ in Anchor Dia., ⅞"-9 Thread				
6 in	3 ½ in	2 ¾ in	**46U148**	10
8 in	3 ½ in	4 ¾ in	**46U150**	10
10 in	3 ½ in	6 ¾ in	**46U151**	10
1 in Anchor Dia., 1"-8 Thread				
6 in	4 ½ in	2 ⅜ in	**46U152**	10
9 in	4 ½ in	5 ⅜ in	**46U153**	10
12 in	4 ½ in	8 ⅜ in	**46U154**	5

MKT

Sup-R-Stud Grade 5 Wedge Anchors

- Yellow, dichromate steel
- Non-seismic rated

Can be used for immediate setting and loading. Yellow electroplating permits easy recognition after installation. Commonly used in conveyor systems, pipe hanging, racking, machinery, and anchoring. Include nut and washer. Meet Federal G.S.A. Specifications FF S-325C Group II, Type 4, Class I.

Note: Safe working loads should not exceed 25% of ultimate values.

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1½"	1015	1472
⅜"	2 7/16"	2367	3151
½"	2 9/16"	5068	6828
⅝"	3⅜"	5556	9659
¾"	4⅝"	11,975	15,126
⅞"	4"	13,902	21,574
1"	4½"	15,829	28,023
1¼"	6½"	23,090	33,000

Anchor Length	Max. Work Thickness	Thread Length	Item No.	Pkg. Qty.
¼ in Anchor Dia., ¼"-20 Thread				
1 ¾ in	⅜ in	⅞ in	**4KHT5**	100
2 ¼ in	⅞ in	1 ⅜ in	**4KHT6**	100
3 ¼ in	1 ⅞ in	2 ¼ in	**4KHT7**	100
⅜ in Anchor Dia., ⅜"-16 Thread				
2 ¼ in	¼ in	1 3/16 in	**4KHT8**	50
3 in	1 in	1 ⅞ in	**4KHT9**	50
3 ¾ in	1 ¾ in	2 ⅝ in	**4KHU1**	50
5 in	3 in	4 in	**4KHU2**	50
½ in Anchor Dia., ½"-13 Thread				
2 ¾ in	⅛ in	1 ½ in	**4KHU3**	50
4 ¼ in	1 ½ in	3 in	**4KHU4**	50
5 ½ in	2 ¾ in	4 in	**4KHU5**	50
7 in	4 ¼ in	1 ¼ in	**4KHU6**	25
⅝ in Anchor Dia., ⅝"-11 Thread				
3 ½ in	⅛ in	1 ⅝ in	**4KHU7**	25
4 ½ in	1 ⅛ in	2 ⅝ in	**4KHU8**	25
5 in	1 ⅝ in	3 ¼ in	**4KHU9**	25
6 in	2 ⅝ in	4 ⅛ in	**4KHV1**	25
⅝ in Anchor Dia., ⅝ in x 8½ in Thread				
8 ½ in	5 ⅛ in	1 ½ in	**4KHV3**	25
¾ in Anchor Dia., ¾"-10 Thread				
4 ¼ in	⅛ in	2 ⅜ in	**4KHV4**	25
4 ¾ in	⅝ in	2 ⅞ in	**4KHV5**	25
5 ½ in	1 ⅜ in	3 ⅝ in	**4KHV6**	20
6 ¼ in	2 ⅛ in	4 ¼ in	**4KHV7**	20
7 in	2 ⅞ in	2 in	**4KHV8**	15
8 ½ in	4 ⅜ in	2 in	**4KHV9**	15
10 in	5 ⅞ in	2 in	**4KHW1**	15
⅞ in Anchor Dia., ⅞"-9 Thread				
6 in	1 ⅛ in	2 ¼ in	**4KHW2**	10
8 in	3 ⅛ in	2 ¼ in	**4KHW3**	10
10 in	5 ⅛ in	2 ¼ in	**4KHW4**	10
1 in Anchor Dia., 1"-8 Thread				
6 in	½ in	2 ¼ in	**4KHW5**	10
9 in	3 ½ in	2 ¼ in	**4KHW6**	10
1 ¼ in Anchor Dia., 1 ¼"-7 Thread				
9 in	1 ¼ in	3 ¼ in	**4KHW7**	5
12 in	4 ¼ in	3 ¼ in	**4KHW8**	5

Wedge And Seismic Anchors

MKT

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1⅛"	1015	1472
⅜"	1⅝"	2367	3151
½"	2¼"	5068	6828
⅝"	2¾"	5556	9659
¾"	3⅜"	11975	15126
⅞"	4"	13902	21574
1"	4½"	15829	28023
1¼"	6½"	23090	33000

			Galvanized Steel			Zinc Plated			303/304 Stainless Steel			316 Stainless Steel		
Anchor Dia.	Anchor Length	Max. Work Thickness	Thread Length	Item No.	Pkg. Qty.	Thread Length	Item No.	Pkg. Qty.	Thread Length	Item No.	Pkg. Qty.	Thread Length	Item No.	Pkg. Qty.
Wedge Anchor														
¼ in	1 ¾ in	⅝ in	⅞ in	**21U976**	20	⅞ in	**21U877**	20	⅞ in	**21U943**	20	⅞ in	**21U927**	20
	2 ¼ in	1 ⅛ in	1 ⅜ in	**21U977**	20	1 ⅜ in	**21U878**	20	1 ⅜ in	**21U944**	20	1 ⅜ in	**21U912**	20
	3 ¼ in	1 in	—	—	—	—	—	—	2 ¼ in	**21U945**	20	2 ¼ in	**21U913**	20
	3 ¼ in	2 ⅛ in	2 ¼ in	**21U978**	20	—	—	—	—	—	—	—	—	—
⅜ in	2 ¼ in	⅝ in	1 3/16 in	**21U979**	20	1 3/16 in	**21U879**	20	1 3/16 in	**21U946**	20	1 3/16 in	**21U914**	20
	2 ¾ in	1 ⅛ in	1 ⅝ in	**21U980**	20	1 ⅝ in	**21U880**	20	1 ⅝ in	**21U947**	20	1 ⅝ in	**21U915**	20
	3 in	1 ⅜ in	1 ⅞ in	**21U981**	20	1 ⅞ in	**21U881**	20	1 ⅞ in	**21U948**	20	1 ⅞ in	**21U916**	20
	3 ¾ in	2 ⅛ in	2 ⅝ in	**21U982**	20	2 ⅝ in	**21U882**	20	2 ⅝ in	**21U949**	20	2 ⅝ in	**21U917**	20
	3 ¾ in	2 ⅛ in	—	—	—	—	—	—	2 ⅝ in	**21V013**	400	2 ⅝ in	**21V016**	400
	5 in	3 ⅜ in	4 in	**21U983**	20	4 in	**21U883**	20	4 in	**21U950**	20	—	—	—
½ in	2 ¾ in	½ in	1 ½ in	**21U984**	10	1 ½ in	**21U884**	10	1 ½ in	**21U951**	10	1 ½ in	**21U918**	10
	3 ¾ in	1 ½ in	2 ½ in	**21U985**	10	2 ½ in	**21U885**	10	2 ½ in	**21U952**	10	2 ½ in	**21U919**	10
	4 ¼ in	2 in	3 in	**21U986**	10	3 in	**21U886**	10	3 in	**21U953**	10	3 in	**21U920**	10
	4 ¼ in	2 in	—	—	—	—	—	—	4 in	**21V012**	200	—	—	—
	5 ½ in	1 in	—	—	—	4 in	**21U887**	10	4 in	**21U954**	10	4 in	**21U921**	10
	5 ½ in	3 ¼ in	4 in	**21U987**	10	—	—	—	—	—	—	—	—	—
	7 in	2 ½ in	—	—	—	4 in	**21U888**	10	1 ¼ in	**21U955**	10	1 ¼ in	**21U928**	10
	7 in	4 ¾ in	4 in	**21U988**	10	—	—	—	—	—	—	—	—	—
⅝ in	3 ½ in	¾ in	1 ⅝ in	**21U989**	5	1 ⅝ in	**21U889**	5	1 ⅝ in	**21U956**	5	1 ⅝ in	**21U929**	5
	4 ½ in	1 ¾ in	2 ⅝ in	**21U990**	5	2 ⅝ in	**21U890**	5	2 ⅝ in	**21U957**	5	2 ⅝ in	**21U922**	5
	5 in	2 ¼ in	3 ¼ in	**21U991**	5	3 ¼ in	**21U891**	5	3 ¼ in	**21U958**	5	3 ¼ in	**21U923**	5
	6 in	⅜ in	—	—	—	4 ⅛ in	**21U892**	5	4 ⅛ in	**21U959**	5	4 ⅛ in	**21U924**	5
	6 in	3 ¼ in	4 ⅛ in	**21U992**	5	—	—	—	—	—	—	—	—	—
	7 in	1 ⅜ in	—	—	—	4 in	**21U893**	5	1 ½ in	**21U960**	5	1 ½ in	**21U930**	5
	7 in	4 ¼ in	4 in	**21U993**	5	—	—	—	—	—	—	—	—	—
	8 ½ in	2 ⅜ in	—	—	—	—	—	—	1 ½ in	**21U961**	5	1 ½ in	**21U931**	5
	8 ½ in	5 ¾ in	4 in	**21U994**	5	—	—	—	—	—	—	—	—	—
¾ in	4 ¼ in	⅞ in	2 ⅜ in	**21U995**	5	2 ⅜ in	**21U895**	5	2 ⅜ in	**21U962**	5	—	—	—
	4 ¾ in	1 ⅜ in	2 ⅞ in	**21U996**	5	2 ⅞ in	**21U896**	5	2 ⅞ in	**21U963**	5	2 ⅞ in	**21U925**	5
	5 ½ in	2 ⅛ in	3 ⅝ in	**21U997**	5	3 ⅝ in	**21U897**	5	3 ⅝ in	**21U964**	5	3 ⅝ in	**21U926**	5
	6 ¼ in	2 ⅞ in	4 ¼ in	**21U998**	5	4 ¼ in	**21U898**	5	4 ¼ in	**21U965**	5	4 ¼ in	**21U932**	5
	7 in	¼ in	—	—	—	4 in	**21U899**	5	2 in	**21U966**	5	2 in	**21U941**	5
	7 in	3 ⅝ in	4 in	**21U999**	5	—	—	—	—	—	—	—	—	—
	8 ½ in	1 ¾ in	—	—	—	4 in	**21U901**	5	2 in	**21U967**	5	2 in	**21U942**	5
	8 ½ in	5 ⅛ in	4 in	**21V001**	5	—	—	—	—	—	—	—	—	—
	10 in	3 ¼ in	—	—	—	4 in	**21U902**	10	2 in	**21U968**	4	2 in	**21U933**	4
	10 in	6 ⅝ in	4 in	**21V002**	4	—	—	—	—	—	—	—	—	—
	12 in	5 ¼ in	—	—	—	4 in	**21U903**	5	2 in	**21U969**	4	2 in	**21U934**	4
	12 in	8 ⅝ in	4 in	**21V003**	4	—	—	—	—	—	—	—	—	—
⅞ in	6 in	2 in	3 ½ in	**21V004**	4	3 ½ in	**21U904**	4	2 ¼ in	**21U970**	4	2 ¼ in	**21U935**	4
	8 in	4 in	4 in	**21V005**	4	4 in	**21U905**	4	2 ¼ in	**21U971**	4	2 ¼ in	**21U936**	4
	10 in	2 in	—	—	—	4 in	**21U906**	4	2 ¼ in	**21U972**	4	2 ¼ in	**21U937**	4
	10 in	6 in	4 in	**21V006**	4	—	—	—	—	—	—	—	—	—
1 in	6 in	1 ½ in	3 ½ in	**21V007**	4	3 ½ in	**21U907**	4	2 ¼ in	**21U973**	5	2 ¼ in	**21U938**	4
	9 in	4 ½ in	4 in	**21V008**	4	4 in	**21U908**	4	—	—	—	2 ¼ in	**21U939**	4
1 ¼ in	9 in	2 ½ in	3 ¼ in	**21V010**	4	3 ¼ in	**21U910**	4	—	—	—	—	—	—
1 in	9 in	4 ½ in	—	—	—	—	—	—	—	—	—	2 ¼ in	**21U974**	5
	12 in	3 in	—	—	—	4 in	**21U909**	4	—	—	—	2 ¼ in	**21U940**	4
1 ¼ in	12 in	5 ½ in	3 ¼ in	**21V011**	4	3 ¼ in	**21U911**	4	—	—	—	—	—	—
1 in	12 in	3 in	—	—	—	—	—	—	—	—	—	2 ¼ in	**21U975**	5
	12 in	7 ½ in	4 in	**21V009**	4	—	—	—	—	—	—	—	—	—
Seismic Wedge Anchor														
½ in	3 ¾ in	¼ in	—	—	—	⅝ in	**21V018**	10	—	—	—	—	—	—
	4 ½ in	1 in	—	—	—	1 ½ in	**21V019**	10	—	—	—	—	—	—
	5 ½ in	2 in	—	—	—	2 ⅜ in	**21V020**	10	—	—	—	—	—	—
	7 in	3 ½ in	—	—	—	4 ⅛ in	**21V021**	10	—	—	—	—	—	—
⅝ in	4 ¾ in	¼ in	—	—	—	⅞ in	**21V022**	5	—	—	—	—	—	—
	6 in	1 ½ in	—	—	—	2 in	**21V023**	5	—	—	—	—	—	—
	8 ½ in	4 in	—	—	—	4 ½ in	**21V024**	5	—	—	—	—	—	—
	10 in	5 ½ in	—	—	—	6 ¼ in	**21V025**	5	—	—	—	—	—	—

Expansion Anchor

Expansion Shield

MKT

Expansion Shields and Anchors

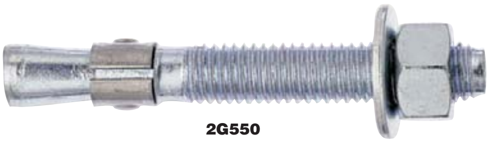
- Min. embedment equals anchor length

Note: Screw length needs to be at least the length of the anchor plus the thickness of the material.

Expansion Shields—Medium to heavy loads in dead, variable, or vibratory conditions in all types of masonry and natural stone.

Expansion Anchors—Lead anchors provide quick installation of lightweight fixtures in masonry and concrete. Not affected by chemicals or moisture.

Anchor Material	Anchor Dia.	Anchor Length	Screw Size	Item No.	Pkg. Qty.
Lag Screw Expansion Anchor					
Zinc Alloy	½ in	1 in	¼ in	**22A658**	25
		1 ¼ in	5/16 in	**22A659**	25
		1 ½ in	¼ in	**22A662**	25
		1 ¾ in	5/16 in	**22A663**	25
	¾ in	2 in	½ in	**22A661**	25
		3 in	½ in	**22A665**	25
	⅝ in	1 ¾ in	⅜ in	**22A660**	25
		2 ½ in	⅜ in	**22A664**	25
Machine Screw Double Expansion Anchor					
Zinc Alloy	½ in	1 ⅜ in	¼ in	**22A672**	25
	¾ in	2 1/16 in	⅜-16	**22A674**	10
	⅝ in	1 3/16 in	5/16-18	**22A673**	25
	⅞ in	2 ½ in	½-13	**22A675**	10
	1 ¼ in	4 in	¾-10	**22A677**	5
	1 in	3 in	⅝-11	**22A676**	5
Machine Screw Expansion Anchor					
Zinc Alloy	½ in	1 5/16 in	¼ in	**22A681**	25
	⅝ in	1 ½ in	⅜-16	**22A679**	10
	⅞ in	2 3/16 in	½-13	**22A680**	5
Machine Screw Expansion Shield					
Zinc Alloy	½ in	1 ¼ in	¼ in	**4KHZ4**	100
	⅞ in	2 ¼ in	½-13	**4KHZ7**	50
	9/16 in	1 ½ in	5/16-18	**4KHZ5**	100
	11/16 in	1 ¾ in	⅜-16	**4KHZ6**	50
	1 ¼ in	3 ⅛ in	¾-10	**4KHZ9**	25
	1 ⅛ in	2 ⅝ in	⅝-11	**4KHZ8**	50
Sheet Metal Screw Expansion Anchor					
Lead	¼ in	¾ in	#6-8	**22A666**	100
		1 in	#6-8	**22A667**	50
		1 ½ in	#6-8	**22A668**	50
	⅜ in	1 in	#16-18	**22A671**	50
	5/16 in	1 in	#10-14	**22A669**	50
		1 ½ in	#10-14	**22A670**	50



2G550

Trubolt Wedge Anchors

- For use in concrete
- For increased load value, use deeper embedment
- Non-seismic rated

Fully threaded with 1-pc. wraparound stainless steel expander clip. For continuous low-temperature applications, use stainless steel anchors. Include nut and washer. Stainless steel anchors meet U.S. Government A-A-1923A Type 4.

Note: Safe working loads for single installations under static loading should not exceed 25% of the ultimate load capacity.

Anchor Dia.	Min. Embedment	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)
¼"	1⅛"	1780	1400
⅜"	1½"	2240	2620
½"	2¼"	5100	4760
⅝"	2¾"	7180	7190
¾"	3¼"	10,840	13,720
⅞"	3¼"	7120	7180
1"	4½"	22,820	20,180

Anchor Length	Thread Length	Max. Work Thickness	Material Grade	Fastener Finish	Mfr. Model	Item No.	Pkg. Qty.
¼ in Anchor Dia.							
1 ¾ in	¾ in	⅜ in	304 SS	Plain	WW-1416	**2G554**	100
	¾ in	⅜ in	Medium Carbon Steel	Zinc Plated	7400SD1-PWR	**46U117**	100
2 ¼ in	1 ¼ in	⅞ in	316 SS	Plain	SWW-1422	**15X085**	100
	1 ¼ in	⅞ in	304 SS	Plain	WW-1422	**2G556**	100
	1 ¼ in	⅞ in	Steel	Zinc Plated	7402SD1-PWR	**46U118**	100
3 ¼ in	2 ¼ in	1 ⅛ in	316 SS	Plain	SWW-1432	**15X086**	100
	2 ¼ in	1 ⅞ in	304 SS	Plain	WW-1432	**2G558**	100
	2 ¼ in	1 ⅞ in	Steel	Zinc Plated	7404SD1-PWR	**46U119**	100
⅜ in Anchor Dia.							
2 ¼ in	1 ⅛ in	⅜ in	304 SS	Plain	WW-3822	**2G570**	50
2 ¾ in	1 ⅝ in	⅞ in	304 SS	Plain	WW-3826	**2G572**	50
2 ¼ in	¾ in	3⁄16 in	Not Graded Steel	Zinc Plated	U70411.037.0225	**31JP12**	25
	1 ⅛ in	⅜ in	Not Graded Steel	Zinc Plated	WS-3822	**3A445**	50
2 ¾ in	1 ⅝ in	⅞ in	Not Graded Steel	Zinc Plated	WS-3826	**3A446**	50
2 ¼ in	⅞ in	¼ in	Steel	Zinc Plated	7410SD1-PWR	**46U120**	50
2 ¾ in	1 ⅜ in	¾ in	Steel	Zinc Plated	7412SD1-PWR	**46U121**	50
3 in	1 ¾ in	1 ⅛ in	316 SS	Plain	SWW-3830	**15X091**	50
3 ¾ in	2 ½ in	1 ⅞ in	316 SS	Plain	SWW-3836	**15X092**	50
3 in	1 ¾ in	1 ⅛ in	304 SS	Plain	WW-3830	**2G574**	50
3 ¾ in	2 ½ in	1 ⅞ in	304 SS	Plain	WW-3836	**2G576**	50
3 in	1 ⅝ in	1 in	Steel	Zinc Plated	7413SD1-PWR	**46U122**	50
3 ½ in	2 ⅛ in	1 ½ in	Steel	Zinc Plated	7414SD1-PWR	**46U123**	50
3 ¾ in	2 ⅜ in	1 ¾ in	Steel	Zinc Plated	7415SD1-PWR	**46U124**	50
5 in	3 ¾ in	3 ⅛ in	304 SS	Plain	WW-3850	**2G578**	50
	3 ⅝ in	3 in	Steel	Zinc Plated	7416SD1-PWR	**46U125**	50
7 in	5 ⅝ in	5 in	Medium Carbon Steel	Zinc Plated	7417SD1-PWR	**46U126**	50
½ in Anchor Dia.							
2 ¾ in	1 ¼ in	⅛ in	304 SS	Plain	WW-1226	**2G560**	25
	1 in	⅛ in	Not Graded Steel	Zinc Plated	U70411.050.0275	**31JP17**	10
	1 in	Not Specified	Steel	Zinc Plated	7420SD1-PWR	**46U127**	50
3 ¾ in	2 ¼ in	1 in	316 SS	Plain	SWW-1236	**15X082**	25
	2 in	11⁄16 in	Not Graded Steel	Zinc Plated	U70411.050.0375	**31JP18**	10
	2 in	1 in	Steel	Zinc Plated	7422SD1-PWR	**46U128**	50
4 ¼ in	2 ¾ in	1 ½ in	316 SS	Plain	SWW-1242	**15X083**	25
	2 ¾ in	1 ½ in	304 SS	Plain	WW-1242	**2G564**	25
	3 in	2 in	Steel	Galvanized	2812414	**21U986**	10
4 ½ in	4 ½ in	1 ¾ in	Steel	Zinc Plated	7423SD1-PWR	**46U129**	50
5 ½ in	3 in	2 ¾ in	316 SS	Plain	SWW-1254	**15X084**	25
	3 in	2 ¾ in	304 SS	Plain	WW-1254	**2G566**	25
	3 ¾ in	2 ¾ in	Steel	Zinc Plated	7424SD1-PWR	**46U130**	50
7 in	3 ½ in	4 ¼ in	304 SS	Plain	WW-1270	**2G568**	25
	5 ¼ in	4 ¼ in	Steel	Zinc Plated	7426SD1-PWR	**46U131**	25
⅝ in Anchor Dia.							
3 ½ in	1 ¾ in	⅛ in	304 SS	Plain	WW-5834	**15X124**	10
	1 ½ in	⅛ in	Steel	Zinc Plated	7430SD1-PWR	**46U134**	25
4 ¼ in	2 ½ in	⅞ in	304 SS	Plain	WW-5842	**15X125**	10
4 ½ in	2 ½ in	1 ⅛ in	Steel	Zinc Plated	7432SD1-PWR	**46U135**	25
5 in	3 ¼ in	1 ⅝ in	304 SS	Plain	WW-5850	**2G550**	10
	3 ¼ in	1 ⅝ in	316 SS	Plain	SWW-5850	**15X094**	10
	3 in	1 ⅝ in	Steel	Zinc Plated	7433SD1-PWR	**46U136**	25
6 in	4 ¼ in	2 ⅝ in	304 SS	Plain	WW-5860	**2G552**	10
	4 in	2 ⅝ in	Steel	Zinc Plated	7434SD1-PWR	**46U137**	25
7 in	3 ½ in	3 ⅝ in	304 SS	Plain	WW-5870	**15X126**	10
	5 in	3 ⅝ in	Medium Carbon Steel	Zinc Plated	7436SD1-PWR	**46U138**	25
8 ½ in	3 ½ in	5 ⅛ in	304 SS	Plain	WW-5884	**15X127**	10
	6 ½ in	5 ⅛ in	Medium Carbon Steel	Zinc Plated	7438SD1-PWR	**46U139**	25
¾ in Anchor Dia.							
4 ¾ in	2 ⅞ in	¾ in	304 SS	Plain	WW-3446	**15X119**	10
4 ¼ in	1 ¾ in	⅛ in	Medium Carbon Steel	Zinc Plated	7440SD1-PWR	**46U141**	20
4 ¾ in	2 ¼ in	⅝ in	Medium Carbon Steel	Zinc Plated	7441SD1-PWR	**46U142**	20
5 ½ in	3 ⅝ in	1 ½ in	304 SS	Plain	WW-3454	**15X120**	10
	3 in	1 ⅜ in	Steel	Zinc Plated	7442SD1-PWR	**46U143**	20
6 ¼ in	4 ⅜ in	2 ¼ in	304 SS	Plain	WW-3462	**15X121**	10
	3 ¾ in	2 ⅛ in	Steel	Zinc Plated	7444SD1-PWR	**46U144**	20
7 in	3 ½ in	3 in	304 SS	Plain	WW-3470	**15X122**	10
	4 ½ in	2 ⅞ in	Medium Carbon Steel	Zinc Plated	7446SD1-PWR	**46U145**	20
8 ½ in	3 ½ in	4 ½ in	304 SS	Plain	WW-3484	**15X123**	10
	6 in	4 ⅜ in	Steel	Zinc Plated	7448SD1-PWR	**46U146**	10
10 in	7 ½ in	5 ⅞ in	Steel	Zinc Plated	7449SD1-PWR	**46U147**	10
12 in	9 ½ in	7 ⅞ in	Medium Carbon Steel	Zinc Plated	7451SD1-PWR	**46U149**	10
⅞ in Anchor Dia.							
6 in	3 ½ in	1 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.0600	**31JP39**	2
	2 ¾ in	1 ⅝ in	Medium Carbon Steel	Zinc Plated	7450SD1-PWR	**46U148**	10
8 in	3 ⅞ in	3 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.0800	**31JP40**	2
10 in	3 ⅞ in	3 ⅛ in	Not Graded Steel	Zinc Plated	U70411.087.1000	**31JP41**	2
1 in Anchor Dia.							
6 in	2 ½ in	½ in	304 SS	Plain	WW-10060	**15X116**	5
	2 ⅞ in	1 in	Not Graded Steel	Zinc Plated	U70411.100.0600	**31JP42**	1
	2 ⅜ in	½ in	Steel	Zinc Plated	7461SD1-PWR	**46U152**	10
9 in	2 ½ in	3 ½ in	304 SS	Plain	WW-10090	**15X117**	5
	3 ⅞ in	4 in	Not Graded Steel	Zinc Plated	U70411.100.0900	**31JP43**	1
	5 ⅜ in	3 ½ in	Medium Carbon Steel	Zinc Plated	7463SD1-PWR	**46U153**	10
1 ¼ in Anchor Dia.							
9 in	4 ¾ in	2 ⅜ in	Medium Carbon Steel	Zinc Plated	7473SD1-PWR	**46U155**	5
1 in Anchor Dia.							
12 in	3 ⅞ in	4 in	Not Graded Steel	Zinc Plated	U70411.100.1200	**31JP44**	1
	8 ⅜ in	6 ½ in	Medium Carbon Steel	Zinc Plated	7465SD1-PWR	**46U154**	5
1 ¼ in Anchor Dia.							
12 in	7 ¾ in	5 ⅜ in	Steel	Zinc Plated	7475SD1-PWR	**46U156**	5

Wedge And Epoxy Style Anchors

Wedge Style Drop-in Anchor

Epoxy Grip Anchor

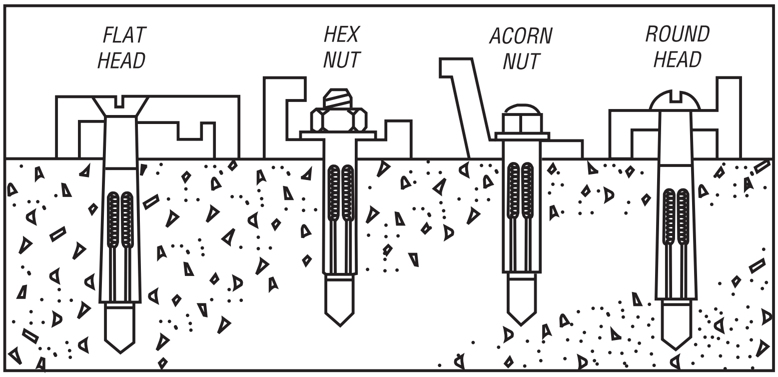
- Zinc-plated steel
- Internally threaded
- Sold each

Wedge-Style Drop-In—With more holding capacity than standard drop-in anchors, wedge-style anchors can be used in a bottomless hole. There are no protruding studs to mar surfaces when removing or replacing. Require no special setting tools. Excellent for pipe work, equipment brackets, and handrails.

Epoxy Grip—Set in-place with adhesives for stress-free anchoring that remains stress-free until force is applied to the bolt. Use in strength design applications, or where close edge distance is required, such as when installing handrails in concrete ramps, etc.

Note: Load values as listed are derived by using MKT VMZ adhesive only.

Thread Size	Anchor Dia.	Anchor Length	Ultimate Tension in 4000 psi Concrete (lb.)	Item No.
Wedge Anchor				
⅜"-16	½ in	2 ¾ in	7,559 lb	**21DA99**
½"-13	⅝ in	3 ¼ in	9,719 lb	**21DC01**
⅝"-11	⅞ in	4 in	16,804 lb	**21DC02**
¾"-10	1 in	4 ⅝ in	21,607 lb	**21DC03**
1"-8	1 ¼ in	5 ¼ in	28,921 lb	**21DC04**
Epoxy Grip Anchor				
¼-20	⅜ in	1.625 in	3344	**21DC05**
5⁄16-18	½ in	2.375 in	7424	**21DC06**
⅜-16	9⁄16 in	2.75 in	9255	**21DC07**
½-13	¾ in	3.5 in	15215	**21DC08**
⅝-11	1 in	5.875 in	32334	**21DC09**
¾-10	1 in	6.125 in	30100	**21DC10**



Sleeve Anchors

Filler sleeve eliminates galling between sleeve and tapered bolt head. For concrete, hollow or shallow masonry, or grout-filled blocks. Include nut and washer. Red Head Meet U.S. Government A-A-1922A standard.

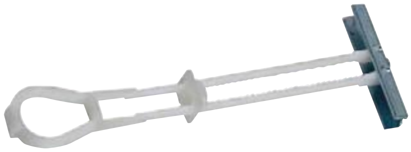
Anchor Dia.	Anchor Length	Min. Embedment	Max. Work Thickness	Ultimate Shear in 4000 psi Concrete (lb.)	Ultimate Tension in 4000 psi Concrete (lb.)	Anchor Material	Brand	Item No.	Pkg. Qty.
Flat Head Phillips									
⅜ in	2 ¾ in	1 ¼ in	1 ½ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK56**	25
	4 in	1 ½ in	2 ½ in	3,040 lb	3,100 lb	Steel	Red Head	**3A489**	50
	4 in	1 ¼ in	2 ¾ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK57**	25
	5 in	1 ½ in	3 ½ in	3,040 lb	3,100 lb	Steel	Red Head	**3A490**	50
	5 in	1 ¼ in	3 ¾ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK58**	10
	6 in	1 ¼ in	4 ¾ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK59**	10
Flat Head Slotted									
¼ in	1 ½ in	1 in	½ in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK53**	50
	2 in	1 in	1 in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK54**	50
	3 in	1 in	2 in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK55**	50
⅜ in	4 in	1 ¼ in	2 ¾ in	2,020 lb	2,960 lb	SS	MKT Fastening	**30PK74**	5
Hex Nut									
5⁄16 in	1 ½ in	1 ¼ in	¼ in	2,400 lb	2,600 lb	Steel	Red Head	**3A472**	100
	1 ½ in	1 ⅛ in	⅛ in	1,600 lb	1,900 lb	Steel	MKT Fastening	**30PK38**	50
	1 ½ in	1 ⅛ in	⅛ in	1,600 lb	1,900 lb	SS	MKT Fastening	**30PK65**	10
	2 ½ in	1 ⅛ in	1 ⅜ in	1,600 lb	1,900 lb	Steel	MKT Fastening	**30PK39**	50
	2 ½ in	1 ⅛ in	1 ⅜ in	1,600 lb	1,900 lb	SS	MKT Fastening	**30PK66**	10
⅜ in	1 ⅞ in	1 ½ in	⅜ in	3,040 lb	3,100 lb	Steel	Red Head	**3A474**	50
	1 ⅞ in	1 ¼ in	⅝ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK40**	25
	1 ⅞ in	1 ¼ in	⅝ in	2,020 lb	2,960 lb	SS	MKT Fastening	**30PK67**	5
	3 in	1 ½ in	1 ½ in	3,040 lb	3,100 lb	Steel	Red Head	**3A475**	50
	3 in	1 ¼ in	1 ¾ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK41**	25
	3 in	1 ¼ in	1 ¾ in	2,020 lb	2,960 lb	SS	MKT Fastening	**30PK68**	5
½ in	2 ¼ in	1 ⅞ in	⅜ in	5,000 lb	4,400 lb	Steel	Red Head	**3A476**	25
	2 ¼ in	1 ½ in	¾ in	5,760 lb	4,860 lb	Steel	MKT Fastening	**30PK42**	10
	2 ¼ in	1 ½ in	¾ in	5,760 lb	4,860 lb	SS	MKT Fastening	**30PK69**	5
	3 in	1 ⅞ in	1 ⅛ in	5,000 lb	4,400 lb	Steel	Red Head	**3A477**	25
	3 in	1 ½ in	1 ½ in	5,760 lb	4,860 lb	Steel	MKT Fastening	**30PK43**	10
	3 in	1 ½ in	—	—	—	SS	DeWalt	**30RZ75**	25
	4 in	1 ⅞ in	2 ⅛ in	5,000 lb	4,400 lb	Steel	Red Head	**3A478**	25
	4 in	1 ½ in	2 ½ in	5,760 lb	4,860 lb	Steel	MKT Fastening	**30PK44**	10
	4 in	1 ½ in	2 ½ in	5,760 lb	4,860 lb	SS	MKT Fastening	**30PK70**	5
	4 in	1 ⅞ in	—	—	4,400 lb	SS	—	**31KL90**	10
	6 in	1 ½ in	4 ½ in	5,760 lb	4,860 lb	Steel	MKT Fastening	**30PK45**	5
⅝ in	3 in	2 in	1 in	7,880 lb	5,970 lb	Steel	MKT Fastening	**30PK47**	5
	4 ¼ in	2 in	2 ¼ in	8,080 lb	6,120 lb	Steel	Red Head	**3A481**	10
	4 ¼ in	2 in	2 ¼ in	7,880 lb	5,970 lb	Steel	MKT Fastening	**30PK48**	5
	6 in	2 in	4 in	7,880 lb	5,970 lb	Steel	MKT Fastening	**30PK49**	5
¾ in	2 ½ in	2 in	½ in	11,620 lb	8,780 lb	Steel	MKT Fastening	**30PK50**	5
	2 ½ in	2 in	½ in	11,620 lb	8,780 lb	SS	MKT Fastening	**30PK72**	5
	4 ¼ in	2 in	2 ¼ in	11,620 lb	8,780 lb	Steel	MKT Fastening	**30PK51**	5
	6 ¼ in	2 in	4 ¼ in	11,620 lb	8,780 lb	Steel	MKT Fastening	**30PK52**	5
Acorn Nut									
¼ in	⅝ in	—	1⁄16 in	—	—	Steel	MKT Fastening	**30PK35**	100
	1 ⅜ in	1 in	⅜ in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK36**	50
	1 ⅜ in	1 in	⅜ in	920 lb	1,400 lb	SS	MKT Fastening	**30PK63**	10
	2 ¼ in	1 in	1 ¼ in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK37**	50
	2 ¼ in	1 in	1 ¼ in	920 lb	1,400 lb	SS	MKT Fastening	**30PK64**	10
Round Head Slotted									
¼ in	1 ¼ in	1 in	¼ in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK60**	50
	2 in	1 in	1 in	920 lb	1,400 lb	Steel	MKT Fastening	**30PK61**	50
⅜ in	2 ½ in	1 ¼ in	1 ½ in	2,020 lb	2,960 lb	Steel	MKT Fastening	**30PK62**	25

Taper Bolt Expansion Anchors with Nuts

Removable, reusable bolts include a finished, low-profile hex head. High tensile strength allows users to substitute smaller bolts, for reduced cost. Uniform expansion provides greater strength and holding power.

Screw Size	Item No.	Pkg. Qty.
Expansion Nuts, Approved Vendor		
⅜ in	**4KHY8**	100
½ in	**4KHY9**	50
¾ in	**4KHZ2**	50
1 in	**4KHZ3**	10

Anchor Dia.	Length	In 3000 psi Concrete Ultimate Tension (lb.)	In 3000 psi Concrete Ultimate Shear (lb.)	Min. Embedment	Item No.	Pkg. Qty.
MKT Fastening						
⅜ in	2¼"	4,030 lb	7,177 lb	1 ⅞ in	**4KHW9**	50
⅜ in	3"	4,030 lb	7,177 lb	1 ⅞ in	**4KHX2**	50
⅜ in	4"	4,030 lb	7,177 lb	1 ⅞ in	**4KHX3**	50
½ in	2⅞"	8,165 lb	12,177 lb	2 ⅜ in	**4KHX4**	25
½ in	4"	8,165 lb	12,177 lb	2 ⅜ in	**4KHX5**	25
½ in	5"	8,165 lb	12,177 lb	2 ⅜ in	**4KHX6**	20
⅝ in	3½"	9,990 lb	17,030 lb	2 ⅞ in	**4KHX7**	20
⅝ in	4½"	9,990 lb	17,030 lb	2 ⅞ in	**4KHX8**	25
¾ in	4⅛"	11,906 lb	27,916 lb	3 ⅜ in	**4KHY2**	20
¾ in	5½"	11,906 lb	27,916 lb	3 ⅜ in	**4KHY3**	20
¾ in	7"	11,906 lb	27,916 lb	3 ⅜ in	**4KHY4**	15
¾ in	8"	11,906 lb	27,916 lb	3 ⅜ in	**4KHY5**	15
1 in	7¼"	28,263 lb	36,257 lb	4 ⅝ in	**4KHY7**	10



Toggle Bolt Anchors With Pull Ring

- Grip range ⅜ to 3⅝"

Thread Size	Drill Bit Size	UOM Qty 10 Item No.	UOM Qty 100 Item No.
Plastic Straps with Zinc Plated Steel Channel			
#10-24	½ in	**40P467**	**40P468**
¼-20	½ in	**40P469**	**40P470**
5⁄16-18	¾ in	**40P471**	**40P472**
⅜-16	¾ in	**40P473**	**40P474**
½-13	¾ in	**40P475**	**40P476**
Plastic Straps with Stainless Steel Channel			
⅜-16	¾ in	**40P477**	—
½-13	¾ in	—	**40P480**

Drop-In Anchor, Flanged

Drop-In Anchor, Non-Flanged

RED HEAD CONCRETE ANCHORING SYSTEMS

DEWALT ENGINEERED BY Powers

MKT

Drop-In Anchors, Tools, and Kits

- Drop-in anchor setting tool must be purchased separately (see table)

For use in pipe hanging, mounting valve and pipe, machinery mounting, anchoring shelf, and insulation applications, in concrete materials or solid concrete base materials.

Note: For load capacities in structural lightweight aggregate concrete, refer to ICBO Report number 1372. Safe working loads for single installations under static loading should not exceed 25% of the ultimate load conditions.

Description	Item No.
DeWalt	
DI+ Stop Drill Bit	
Smart Bit for ½", Bit Dia. ⅝"	**46U172**
Smart Bit for ¼", Bit Dia. ⅜"	**46U170**
Smart Bit for ⅜", Bit Dia. ½"	**46U171**
DI+ System Setting Tool	
Use With Rod/Anchor Size ½", Pin length 1 3⁄16"	**46U169**
Use With Rod/Anchor Size ¼", Pin length 39⁄64"	**46U167**
Use With Rod/Anchor Size ⅜", Pin length 61⁄64"	**46U168**
Tapcon	
Depth Charge Stop Drill Bits	
⅜ in Bit Hammer Drill	**4CGZ8**
½ in Bit Hammer Drill	**4CGZ9**

Drop-In Anchor Type	Anchor Material	Thread Depth	Min. Hole Depth	Drill Bit Size	Ultimate Tension in 4000 psi Concrete (lb.)	Ultimate Shear in 4000 psi Concrete (lb.)	Brand	DROP-IN ANCHOR Item No.	DROP-IN ANCHOR Pkg. Qty.	ANCHOR SETTING TOOL Item No.	ANCHOR SETTING TOOL Pkg. Qty.
¼"-20 Thread Size											
Flange	Steel	⅜ in	1 in	⅜ in	2,360 lb	1,080 lb	Red Head	**3A492**	100	**3A497**	1
Non-Flange	Stainless Steel	⅜ in	1 in	⅜ in	2,360 lb	1,080 lb	Red Head	**2G476**	100	**3A497**	1
		15⁄32 in	1 in	⅜ in	2,104 lb	1,321 lb	Sup-R-Drop	**4KJA3**	25	**4XMF2**	1
		⅜ in	1 in	⅜ in	2,104 lb	1,321 lb	MKT Fastening	**30PK20**	10	—	—
		⅜ in	1 in	⅜ in	2,104 lb	1,321 lb	MKT Fastening	**30PK25**	5	—	—
	Steel	⅜ in	1 in	⅜ in	2,360 lb	1,080 lb	Red Head	**2G474**	100	**3A497**	1
		7⁄16 in	1 in	⅜ in	1,565 lb	2,550 lb	DeWalt	**46U157**	100	**46U162**	1
		⅜ in	1 in	⅜ in	2,104 lb	1,321 lb	MKT Fastening	**30PK15**	20	—	—
⅜"-16 Thread Size											
Flange	Steel	½ in	1 ⅝ in	½ in	3,800 lb	3,160 lb	Red Head	**3A493**	50	**3A498**	1
		⅜ in	¾ in	½ in	3,800 lb	3,160 lb	Red Head	**5HE65**	100	**2WLH1**	1
		½ in	1 9⁄16 in	½ in	4,824 lb	3,714 lb	MKT Fastening	**30PK32**	25	—	—
		⅜ in	¾ in	½ in	—	3,714 lb	MKT Fastening	**30PK34**	20	—	—
Non-Flange	Stainless Steel	½ in	1 ⅝ in	½ in	3,800 lb	3,160 lb	Red Head	**2G492**	50	**3A498**	1
		23⁄32 in	1 9⁄16 in	½ in	4,824 lb	3,714 lb	Sup-R-Drop	**4KJA4**	25	**4XMF3**	1
		½ in	1 9⁄16 in	½ in	4,824 lb	3,714 lb	MKT Fastening	**30PK21**	10	—	—
		½ in	1 9⁄16 in	½ in	4,824 lb	3,714 lb	MKT Fastening	**30PK26**	5	—	—
	Steel	½ in	1 ⅝ in	½ in	3,800 lb	3,160 lb	Red Head	**2G488**	50	**3A498**	1
		⅝ in	1 9⁄16 in	½ in	2,850 lb	4,755 lb	DeWalt	**46U158**	50	**46U163**	1
		½ in	1 9⁄16 in	½ in	4,824 lb	3,714 lb	MKT Fastening	**30PK16**	25	—	—
½"-6 Thread Size											
Coil Non-Flange	Steel	¾ in	2 in	⅝ in	7,398 lb	5,854 lb	MKT Fastening	**30PK30**	25	—	—
½"-13 Thread Size											
Flange	Steel	½ in	1 in	⅝ in	3,270 lb	2,673 lb	Red Head	**2KTE5**	50	**2KTE6**	1
		¾ in	2 in	⅝ in	5,840 lb	4,580 lb	Red Head	**3A494**	50	**4CB94**	1
		¾ in	2 in	⅝ in	7,398 lb	5,854 lb	MKT Fastening	**30PK33**	25	—	—
Non-Flange	Stainless Steel	¾ in	2 in	⅝ in	5,840 lb	4,580 lb	Red Head	**2G490**	50	**4CB94**	1
		1 in	2 in	⅝ in	7,398 lb	5,854 lb	Sup-R-Drop	**4KJA5**	25	**4XMF4**	1
		¾ in	2 in	⅝ in	7,398 lb	5,854 lb	MKT Fastening	**30PK22**	5	—	—
		¾ in	2 in	⅝ in	7,398 lb	5,854 lb	MKT Fastening	**30PK27**	5	—	—
	Steel	¾ in	2 in	⅝ in	5,480 lb	4,580 lb	Red Head	**2G486**	50	**4CB94**	1
		13⁄16 in	2 in	⅝ in	4,190 lb	7,505 lb	DeWalt	**46U159**	50	**46U164**	1
		¾ in	2 in	⅝ in	7,398 lb	5,854 lb	MKT Fastening	**30PK17**	25	—	—
⅝"-11 Thread Size											
Flange	Steel	1 in	2 ½ in	⅞ in	8,640 lb	7,440 lb	Red Head	**3A495**	25	**4CB96**	1
Non-Flange	Stainless Steel	1 in	2 ½ in	⅞ in	7,966 lb	8,754 lb	Sup-R-Drop	**4KJA6**	25	**4XMF5**	1
		1 in	2 ½ in	⅞ in	7,966 lb	8,754 lb	MKT Fastening	**30PK23**	5	—	—
		1 in	2 ½ in	⅞ in	7,966 lb	8,754 lb	MKT Fastening	**30PK28**	5	—	—
		1 3⁄16 in	2 ½ in	⅞ in	7,440 lb	—	DeWalt	**30RZ47**	25	**46U165**	1
		1 in	2 ½ in	⅞ in	8640	7440	Red Head	—	—	**4CB96**	1
	Steel	1 in	2 ½ in	⅞ in	8,640 lb	7,440 lb	Red Head	**2G480**	25	**4CB96**	1
		1 in	2 ½ in	⅞ in	7,966 lb	8,754 lb	MKT Fastening	**30PK18**	10	—	—
¾"-4-1/2 Thread Size											
Coil Non-Flange	Steel	1 ½ in	3 3⁄16 in	1 in	16,019 lb	11,627 lb	MKT Fastening	**30PK31**	5	—	—
¾"-10 Thread Size											
Flange	Steel	1 ¼ in	3 3⁄16 in	1 in	9,480 lb	10,480 lb	Red Head	**3A496**	25	**4CB95**	1
Non-Flange	Stainless Steel	1 ¼ in	3 3⁄16 in	1 in	9,480 lb	10,480 lb	Red Head	**2G482**	25	**4CB95**	1
		1 ½ in	3 3⁄16 in	1 in	16,019 lb	11,627 lb	MKT Fastening	**30PK24**	5	**4XMF6**	1
		1 ½ in	3 3⁄16 in	1 in	16,019 lb	11,627 lb	MKT Fastening	**30PK29**	5	**4XMF6**	1
		1 ⅜ in	3 3⁄16 in	1 in	9,405 lb	—	DeWalt	**30RZ48**	10	—	—
	Steel	1 ¼ in	3 3⁄16 in	1 in	9,480 lb	10,480 lb	Red Head	**2G478**	25	**4CB95**	1
		1 ½ in	3 3⁄16 in	1 in	16,019 lb	11,627 lb	MKT Fastening	**30PK19**	5	—	—

Tapper® Stainless Steel Permaseal Coating Finish - Hex Head

Tapper+® Steel Permaseal Coating Finish - Flat Philips Head

Wedge-Bolt® +

Screw-Bolt+™ Steel Zinc Plated Finish - Hex Head

Anchor Screws and Bolts

DEWALT ENGINEERED BY Powers

Anchor Dia.	Length	Head Style	Item No.	Pkg. Qty.
Concrete Screw				
Tapper® Stainless Steel Permaseal Coating Finish				
¼ in	1 ¼ in	Hex Washer	**30TE04**	100
	1 ¾ in	Hex Washer	**30TE05**	100
	1 ¼ in	Flat Phillips	**30TE11**	100
	1 ¾ in	Flat Phillips	**30TE12**	100
	2 ¼ in	Hex Washer	**30TE06**	100
	2 ¾ in	Hex Washer	**30TE07**	100
	2 ¼ in	Flat Phillips	**30TE13**	100
	2 ¾ in	Flat Phillips	**30TE14**	100
	3 ¼ in	Hex Washer	**30TE08**	100
	3 ¾ in	Hex Washer	**30TE09**	100
	3 ¼ in	Flat Phillips	**30TE15**	100
Tapper+® Steel Permaseal Coating Finish				
3⁄16 in	1 ¼ in	Flat Phillips	**30TD91**	100
	1 ¾ in	Flat Phillips	**30TD92**	100
	2 ¼ in	Hex Washer	**30TD81**	100
	2 ¾ in	Hex Washer	**30TD82**	100
	2 ¼ in	Flat Phillips	**30TD93**	100
	2 ¾ in	Flat Phillips	**30TD94**	100
	3 ¼ in	Hex Washer	**30TD83**	100
¼ in	1 ¾ in	Hex Washer	**30TD85**	100
	1 ¼ in	Flat Phillips	**30TD96**	100
	1 ¾ in	Flat Phillips	**30TD97**	100
	3 ¾ in	Hex Washer	**30TD89**	100
	3 ¼ in	Flat Phillips	**30TE01**	100
	3 ¾ in	Flat Phillips	**30TE02**	100
	4 in	Flat Phillips	**30TE03**	100

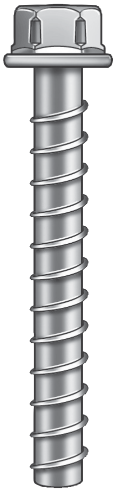
Anchor Dia.	Length	Head Style	Item No.	Pkg. Qty.
Screw Anchor				
Screw-Bolt+™ Steel Galvanized Finish				
⅝ in	8 in	Hex Washer	**411D74**	25
¾ in	8 in	Hex Washer	**411D76**	10
Screw-Bolt+™ Steel Zinc Plated Finish				
¼ in	3 in	Hex Washer	**411D39**	100
⅜ in	4 in	Hex Washer	**411D43**	50
½ in	4 in	Hex Washer	**411D49**	50
	5 in	Hex Washer	**411D50**	25
	6 in	Hex Washer	**411D51**	25
	8 in	Hex Washer	**411D52**	25
	8 in	Hex Washer	**411D52**	25
⅝ in	4 in	Hex Washer	**411D54**	25
	5 in	Hex Washer	**411D55**	25
	6 in	Hex Washer	**411D56**	25
	8 in	Hex Washer	**411D57**	25
¾ in	8 in	Hex Washer	**411D62**	10
	10 in	Hex Washer	**411D63**	10

Screw Anchors

- Steel
- Drill bit size = anchor dia.
- Hex washer head

High-strength heavy-duty anchors are for use in both cracked and uncracked concrete. Easily installed with standard-size drill bits; removable, for temporary anchoring. Vibration- and shock-resistant. For use in fastening conveyors, pallet racking, racking guards, motors, bracing, piping, ladders, fencing, beams, angles, or dimensional lumber to concrete or masonry.

Anchor Dia.	Length	Min. Embedment	Max. Work Thickness	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)	Item No.	Pkg. Qty.
Approved Vendor							
¼ in	1 ¾ in	1 3/16 in	¾ in	1,025 lb	2,680 lb	**4XFX4**	100
	2 ¼ in	1 3/16 in	½ in	1,025 lb	2,680 lb	**4XFX5**	50
	3 in	1 3/16 in	1 ¼ in	1,025 lb	2,680 lb	**4XFX6**	50
⅜ in	1 ¾ in	2 in	¼ in	4,248 lb	8,240 lb	**4XFX7**	50
	2 ½ in	2 in	1 in	4,248 lb	8,240 lb	**4XFX8**	50
	3 in	2 in	⅝ in	4,248 lb	8,240 lb	**2MCP2**	50
	4 in	2 in	1 ⅝ in	4,248 lb	8,240 lb	**2MCP3**	50
½ in	3 in	2 in	¾ in	4,758 lb	9,070 lb	**2MCP5**	25
	6 in	2 in	3 ¾ in	4,758 lb	9,070 lb	**2MCP8**	20
⅝ in	4 in	2 in	—	4,689 lb	12,147 lb	**32H808**	10
	5 in	2 in	—	4,689 lb	12,147 lb	**32H809**	10
	6 in	2 in	—	4,689 lb	12,147 lb	**32H810**	10
¾ in	4 ½ in	2 ½ in	2 in	7,042 lb	14,145 lb	**2MCR4**	10
DeWalt							
¼ in	1 ¼ in	1 in	¼ in	1,400 lb	1,755 lb	**411D35**	100
	1 ¾ in	1 in	¾ in	1,400 lb	1,755 lb	**411D36**	100
	2 ¼ in	1 in	1 ¼ in	2,955 lb	1,755 lb	**411D37**	100
	2 ⅝ in	1 in	1 ⅝ in	2,955 lb	1,755 lb	**411D38**	100
	3 in	1 in	2 in	3,855 lb	2,140 lb	**411D39**	100
⅜ in	1 ¾ in	1 ½ in	¼ in	2,880 lb	3,890 lb	**411D40**	50
	2 ½ in	1 ½ in	1 in	4,020 lb	4,735 lb	**411D41**	50
	3 in	1 ½ in	1 ½ in	4,020 lb	4,735 lb	**411D42**	50
	3 in	1 ½ in	1 ½ in	4,020 lb	4,735 lb	**411D64**	50
	4 in	1 ½ in	2 ½ in	8,130 lb	6,930 lb	**411D43**	50
	4 in	1 ½ in	2 ½ in	8,130 lb	6,930 lb	**411D65**	50
	5 in	1 ½ in	3 ½ in	11,945 lb	6,930 lb	**411D44**	50
	5 in	1 ½ in	3 ½ in	11,945 lb	6,930 lb	**411D66**	50
	6 in	1 ½ in	4 ½ in	11,945 lb	6,930 lb	**411D45**	50
	6 in	1 ½ in	4 ½ in	11,945 lb	6,930 lb	**411D67**	50
½ in	2 in	1 ¾ in	¼ in	3,115 lb	6,555 lb	**411D46**	50
	2 ½ in	1 ¾ in	¾ in	3,115 lb	6,555 lb	**411D47**	50
	3 in	1 ¾ in	1 ¼ in	7,320 lb	8,800 lb	**411D48**	50
	4 in	1 ¾ in	2 ¼ in	7,320 lb	8,800 lb	**411D49**	50
	4 in	1 ¾ in	2 ¼ in	7,320 lb	8,800 lb	**411D68**	50
	5 in	1 ¾ in	3 ¼ in	14,525 lb	10,290 lb	**411D50**	25
	5 in	1 ¾ in	3 ¼ in	14,525 lb	10,290 lb	**411D69**	25
	6 in	1 ¾ in	4 ¼ in	17,235 lb	10,290 lb	**411D51**	25
	6 in	1 ¾ in	4 ¼ in	17,235 lb	10,290 lb	**411D70**	25
	8 in	1 ¾ in	6 ¼ in	17,235 lb	10,290 lb	**411D52**	25
	8 in	1 ¾ in	6 ¼ in	17,235 lb	10,290 lb	**411D71**	25
⅝ in	3 in	2 ½ in	½ in	6,285 lb	11,630 lb	**411D53**	25
	4 in	2 ½ in	1 ½ in	10,685 lb	13,220 lb	**411D54**	25
	5 in	2 ½ in	2 ½ in	10,685 lb	13,220 lb	**411D55**	25
	5 in	2 ½ in	2 ½ in	10,685 lb	13,220 lb	**411D72**	25
	6 in	2 ½ in	3 ½ in	15,830 lb	14,980 lb	**411D56**	25
	6 in	2 ½ in	3 ½ in	15,830 lb	14,980 lb	**411D73**	25
	8 in	2 ½ in	5 ½ in	22,475 lb	14,980 lb	**411D57**	25
	8 in	2 ½ in	5 ½ in	22,475 lb	14,980 lb	**411D74**	25
¾ in	3 in	2 ½ in	½ in	6,610 lb	12,725 lb	**411D58**	20
	4 in	2 ½ in	1 ½ in	6,610 lb	12,725 lb	**411D59**	20
	5 in	2 ½ in	2 ½ in	13,035 lb	18,685 lb	**411D60**	20
	6 in	2 ½ in	3 ½ in	20,835 lb	18,685 lb	**411D61**	20
	6 in	2 ½ in	3 ½ in	20,835 lb	18,685 lb	**411D75**	20
	8 in	2 ½ in	5 ½ in	22,450 lb	18,685 lb	**411D62**	10
	8 in	2 ½ in	5 ½ in	22,450 lb	18,685 lb	**411D76**	10
	10 in	2 ½ in	7 ½ in	22,450 lb	18,685 lb	**411D63**	10



Anchor Bolts

- Tensile strength: 60,000 psi

Include nut and washer. Meet ASTM A307 standard.

Anchor Thread Size	Overall Length	Plain Anchor Length	Plain Item No.	Plain Pkg. Qty.	Hot Dipped Galvanized Anchor Length	Hot Dipped Galvanized Item No.	Hot Dipped Galvanized Pkg. Qty.	Zinc Plated Anchor Length	Zinc Plated Item No.	Zinc Plated Pkg. Qty.
⅜"-16	6 in	6 in	**11K382**	25	6 in	**21Y486**	50	—	—	—
	8 in	8 in	**11K383**	25	8 in	**21Y487**	50	—	—	—
½"-13	6 in	6 in	**11K384**	25	6 in	**21Y488**	50	—	—	—
	8 in	8 in	**11K385**	25	8 in	**21Y463**	50	—	—	—
	8 in	8 in	**21Y445**	50	—	—	—	—	—	—
	10 in	10 in	**11M966**	25	10 in	**21Y464**	50	—	—	—
	12 in	—	—	—	12 in	**21Y465**	50	12 in	**11M967**	25
	14 in	14 in	**21Y448**	50	14 in	**21Y466**	50	—	—	—
	16 in	—	—	—	16 in	**21Y467**	50	—	—	—
	18 in	18 in	**21Y450**	50	18 in	**21Y468**	50	—	—	—
⅝"-11	8 in	—	—	—	8 in	**21Y469**	25	—	—	—
	10 in	10 in	**21Y451**	25	10 in	**21Y470**	25	—	—	—
	12 in	12 in	**21Y452**	25	12 in	**21Y471**	25	—	—	—
	18 in	18 in	**21Y453**	25	18 in	**21Y473**	25	—	—	—
¾"-10	8 in	8 in	**21Y454**	20	—	—	—	—	—	—
	12 in	12 in	**21Y455**	20	12 in	**21Y474**	20	—	—	—
	15 in	—	—	—	15 in	**21Y475**	20	—	—	—
	16 in	16 in	**21Y456**	20	16 in	**21Y476**	20	—	—	—
	18 in	18 in	**21Y457**	20	18 in	**21Y477**	20	—	—	—
	24 in	24 in	**21Y458**	20	24 in	**21Y478**	20	—	—	—
1"-8	12 in	—	—	—	12 in	**21Y481**	10	—	—	—
	18 in	18 in	**21Y460**	10	18 in	**21Y483**	10	—	—	—
	24 in	—	—	—	24 in	**21Y484**	10	—	—	—
	30 in	30 in	**21Y462**	10	—	—	—	—	—	—
	36 in	—	—	—	36 in	**21Y485**	10	—	—	—

RED HEAD CONCRETE ANCHORING SYSTEMS

Large-Diameter Tapcon Self-Threading Anchors

- Grade 5 zinc-plated, hardened steel

Removable structural screw anchors are for high-load capacity applications. Use in concrete and masonry and in dry, noncorrosive environments. Install with standard masonry drill bits.

Hex Washer Head

Anchor Dia.	Length	Min. Embedment	Max. Work Thickness	In 4000 psi Concrete Ultimate Tension (lb.)	In 4000 psi Concrete Ultimate Shear (lb.)	Item No.	Pkg. Qty.
Hex Washer							
⅜ in	1 ¾ in	1 ½ in	¼ in	1,900 lb	3,400 lb	**4BU93**	50
	2 ½ in	1 ½ in	½ in	2,552 lb	3,420 lb	**4BU94**	50
	3 in	1 ½ in	1 ½ in	3,312 lb	3,424 lb	**4BU95**	50
	4 in	1 ½ in	2 ½ in	7,852 lb	3,459 lb	**4BU96**	50
	5 in	1 ½ in	3 ½ in	8,500 lb	3,500 lb	**4BU97**	40
½ in	3 in	2 in	½ in	5,644 lb	7,380 lb	**4BU98**	25
	4 in	2 in	1 ½ in	8,836 lb	8,140 lb	**4BU99**	25
	5 in	2 in	2 ½ in	10,488 lb	8,550 lb	**4BY10**	25
	6 in	2 in	4 in	12,000 lb	9,000 lb	**4BY11**	20
⅝ in	3 in	2 ¾ in	¼ in	7,845 lb	13,475 lb	**4BY12**	10
	4 in	2 ¾ in	1 ¼ in	11,722 lb	14,059 lb	**4BY13**	10
	5 in	2 ¾ in	2 ¼ in	16,891 lb	14,839 lb	**4BY14**	10
	6 in	2 ¾ in	3 ¼ in	18,500 lb	14,600 lb	**4BY15**	10
¾ in	4 ½ in	3 ¼ in	1 ¼ in	12,636 lb	14,314 lb	**4BY16**	10
	5 ½ in	3 ¼ in	2 ¼ in	18,541 lb	20,612 lb	**4BY17**	10
	6 ¼ in	3 ¼ in	3 in	23,266 lb	25,560 lb	**4BY18**	10

RED HEAD CONCRETE ANCHORING SYSTEMS

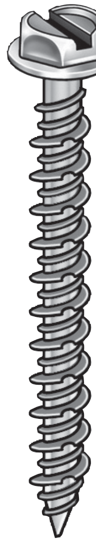
Masonry Anchors

- For wood-to-concrete applications

Easy-to-install anchors can be quickly removed. Notched high-low threads cut into masonry for greater stability and pull-out values.

Tapered shank provides a wedging action for a strong, reliable hold. Accommodate close-to-edge applications. Superior pull-out and shear strengths.

Note: Not recommended for use with aluminum when moisture may be present.



Hex Washer Head

Flat, Phillips Head

Anchor Dia.	Length	HEX WASHER HEAD Item No.	FLAT, PHILLIPS HEAD Item No.
Approved Vendor, 410 Stainless Steel, Sliver Ruspert			
¼ in	1 ¼ in	**4XFY1**	**4XFY8**
	1 ¾ in	**4XFY2**	**4XFY9**
	2 ¼ in	**4XFY3**	**4XFZ1**
	2 ¾ in	**4XFY4**	**4XFZ2**
	3 ¼ in	**4XFY5**	**4XFZ3**
	3 ¾ in	**4XFY6**	**4XFZ4**
	4 in	**4XFY7**	**4XFZ5**
Approved Vendor, Low Carbon Steel, Zinc Yellow			
#8	1 in	**15W113**	**15W118**
	1 ¼ in	**15W114**	**15W119**
	1 ½ in	**15W115**	**15W120**
¼ in	¾ in	**15W121**	**15W131**
	1 in	**15W122**	**15W132**
	1 ¼ in	**15W123**	**15W133**
	1 ½ in	**15W124**	**15W134**
	2 in	**15W125**	**15W135**
	2 ½ in	**15W126**	**15W136**
	3 in	**15W127**	**15W137**
	3 ½ in	**15W128**	**15W138**
	4 ½ in	**15W130**	**15W140**
Tapcon Red Head, 410 Stainless Steel			
¼ in	1 ¼ in	**15X492**	**15X498**
	1 ¾ in	**15X493**	**15X499**
	2 ¼ in	**15X494**	**15X501**
	2 ¾ in	**15X495**	**15X502**
	3 ¼ in	**15X496**	—
	3 ¾ in	**15X497**	**15X504**

Anchor Dia.	Length	HEX WASHER HEAD Item No.	FLAT, PHILLIPS HEAD Item No.
Tapcon Red Head, Hardened Steel			
3/16 in	1 ¾ in	**4AK82**	**4AK94**
	2 ¼ in	**4AK83**	—
	2 ¾ in	**4AK84**	**4AK96**
	3 ¼ in	**4AK85**	**4AK97**
	1 ¼ in	**4AK81**	**4AK93**
¼ in	1 ¾ in	**4AK87**	—
	2 ¼ in	**4AK88**	**4AL00**
	2 ¾ in	**4AK89**	**4AL01**
	3 ¼ in	**4AK90**	**4AL02**
	3 ¾ in	**4AK91**	**4AL03**
	4 in	**4AK92**	**4AL04**
	1 ¼ in	**4AK86**	**4AK98**
Tapcon Red Head, Low Carbon Steel			
¼ in	6 in	**15X486**	**15X490**

Concrete Deck Inserts

- Steel construction with zinc plated finish
- 8" length
- 12" flange width

Inserts have pre-mounted self-drilling screws and a lengthened "T" brace, to allow simple and easy installation in concrete-filled metal deck assemblies, in a variety of positions. A threaded bolt permits precise height adjustment and helps guarantee the minimum embedment depth. UL Listed. Meet ICC-ES, ESR-3958, IBC 2009, 2012, 2015, IRC 2009, 2012, 2015, FM standards.

Nominal Conduit/Pipe/ Threaded Rod	W	Flange Thickness	Hole Size	Item No.
⅜ in	⅜ in	3/16 in	7/16 in or ½ in	**416K95**
½ in	½ in	3/16 in	9/16 in or ⅝ in	**416K96**
¾ in	¾ in	⅜ in	13/16 in or ⅞ in	**416K97**
⅞ in	⅞ in	⅜ in	15/16 in or 1 in	**416K98**

Crimp-Drive

Split-Drive

Hammer Drive

Mushroom Head

Tie-Wirehead

Flat Head

Crimp, Hammer, and Split-Drive Anchors

Tamper-resistant light- to medium-duty anchors allow hammer-in installation and multiple head configurations. Install in concrete, grout-filled block, and stone. Duplex-head anchors are for temporary fastening and can be removed using a claw hammer. Sup-R-Coat electroplate and galvanized finishes are for use in corrosive environments, or with ACQ lumber.

Crimp Drive—Preformed curvature along shaft expands to secure anchor. Installs with a standard hammer into concrete and grout-filled block.

Sup-R-Split Hammer Drive—High-strength, heat-treated 1-pc. steel anchors are hammer-drive, friction-set; can be used for attaching wood or forming to solid concrete.

Note: Not approved for use in seismic applications.

Split-Drive—Install in concrete, grout-filled block, and stone. Duplex-head anchors are designed for temporary fastening and can be removed by using a claw hammer.

Anchor Dia.	Anchor Length	Min. Embedment	Anchor Head Style	Item No.	Pkg. Qty.
Crimp Drive Anchor, Strong-Tie					
3/16 in	1 ¼ in	1 ¼ in	Rod Coupler	**4XGA8**	100
	2 in	1 ¼ in	Mushroom	**4XFZ7**	100
¼ in	1 ½ in	1 ¼ in	Mushroom	**4XGA1**	100
	1 ½ in	1 ½ in	Rod Coupler	**4XGA9**	50
	1 ¼ in	⅞ in	Mushroom	**4XFZ9**	100
	1 ⅛ in	1 ⅛ in	Tie-Wire	**4XGC1**	100
	1 in	⅞ in	Mushroom	**4XFZ8**	100
	2 ½ in	1 ¼ in	Mushroom	**4XGA3**	100
	2 in	1 ¼ in	Mushroom	**4XGA2**	100
	3 in	1 ¼ in	Mushroom	**4XGA7**	100
⅜ in	3 in	1 ¾ in	Mushroom	**4XGA6**	25
Hammer Drive Pin Anchor, DeWalt					
3/16 in	1 ½ in	⅞ in	Flat	**453H31**	100
	1 ½ in	⅞ in	Mushroom	**453G83**	100
	1 ½ in	⅞ in	Mushroom	**453H12**	100
	1 ½ in	1 ¼ in	Flat	**453H23**	100
	1 ¼ in	⅞ in	Mushroom	**453H11**	100
	1 ⅛ in	1 ⅛ in	Tie-Wire	**453H22**	100
	1 in	⅞ in	Mushroom	**453G82**	100
	1 in	⅞ in	Mushroom	**453H10**	100
	2 ½ in	⅞ in	Flat	**453H33**	100
	2 ½ in	⅞ in	Mushroom	**453G84**	100
	2 ½ in	⅞ in	Flat	**453H01**	100
	2 in	⅞ in	Flat	**453H32**	100
	2 in	⅞ in	Mushroom	**453H13**	100
	2 in	1 ¼ in	Flat	**453H24**	100
	3 ½ in	⅞ in	Mushroom	**453G86**	100
	3 in	⅞ in	Flat	**453H34**	100
	3 in	⅞ in	Mushroom	**453G85**	100
	3 in	⅞ in	Flat	**453H02**	100
	4 in	⅞ in	Mushroom	**453G87**	100
	4 in	⅞ in	Flat	**453H03**	100
¼ in	1 ½ in	1 in	Flat	**453H04**	100
	1 ½ in	1 in	Mushroom	**453H15**	100
	1 ¼ in	1 ⅛ in	Round	**453H26**	100
	1 ¼ in	1 in	Mushroom	**453H14**	100
	1 ¾ in	1 ⅛ in	Tie-Wire	**453H35**	500
	1 ¾ in	1 ⅛ in	Tie-Wire	**453H36**	100
	2 ½ in	1 in	Flat	**453H06**	100
	2 ½ in	1 in	Mushroom	**453H17**	100
	2 in	1 in	Flat	**453H05**	100
	2 in	1 in	Mushroom	**453H16**	100
	3 ½ in	1 in	Mushroom	**453G88**	100
	3 ½ in	1 in	Flat	**453H08**	100
	3 in	1 in	Flat	**453H07**	100
	3 in	1 in	Mushroom	**453H18**	100
	4 in	1 in	Mushroom	**453G89**	100
	4 in	1 in	Flat	**453H09**	100
⅜ in	2 ½ in	1 ⅞ in	Round	**453H28**	25
	2 ½ in	1 ¾ in	Mushroom	**453G90**	25
	2 ½ in	1 ¾ in	Mushroom	**453H20**	25
	2 in	1 ⅞ in	Round	**453H27**	25
	2 in	1 ¾ in	Mushroom	**453H19**	25
	3 ½ in	1 ⅞ in	Round	**453H29**	25
	3 ½ in	1 ¾ in	Mushroom	**453G91**	25
	3 in	1 ¾ in	Mushroom	**453H21**	25
	4 in	1 ¾ in	Mushroom	**453G92**	25
	5 in	1 ¾ in	Mushroom	**453G93**	25
	6 in	1 ¾ in	Mushroom	**453G94**	25
½ in	2 ¾ in	2 ½ in	Mushroom	**453G95**	50
	3 ½ in	2 ½ in	Mushroom	**453G96**	50
	3 in	2 ⅝ in	Round	**453H30**	25
	4 in	2 ½ in	Mushroom	**453G97**	25
	5 in	2 ½ in	Mushroom	**453G98**	25
	6 ½ in	2 ½ in	Mushroom	**453G99**	25
Split-Drive Anchor, Strong-Tie					
¼ in	1 ½ in	1 ¼ in	Countersunk	**4XGC9**	100
	2 ½ in	1 ¼ in	Countersunk	**4XGD2**	100
	2 in	1 ¼ in	Countersunk	**4XGD1**	100
	3 ½ in	1 ¼ in	Countersunk	**4XGD4**	100
	3 in	1 ¼ in	Countersunk	**4XGD3**	100
	3 in	1 ¼ in	Duplex	**4XGD8**	100
	4 in	1 ¼ in	Countersunk	**4XGD5**	100
	4 in	1 ¼ in	Countersunk	**4XGD7**	100
Sup-R-Split Hammer Drive Anchor, MKT Fastening					
¼ in	1 ½ in	1 ⅛ in	Flat	**4KJA8**	100
	2 ½ in	1 ⅛ in	Flat	**4KJC1**	100
	2 ¾ in	1 ⅛ in	Duplex	**4KJC5**	100
	2 in	1 ⅛ in	Flat	**4KJA9**	100
	3 ½ in	1 ⅛ in	Flat	**4KJC3**	100
	3 ½ in	1 ⅛ in	Flat	**4KJC7**	100
	3 in	1 ⅛ in	Flat	**4KJC2**	100
	3 in	1 ⅛ in	Flat	**4KJC6**	100
	4 in	1 ⅛ in	Flat	**4KJC4**	100

Standard, Steel

Standard, Zamac

Security Anchor, Carbon Steel

Hammer-Drive Anchors and Pins

Standard—Easy-to-install, tamperproof anchors can be used in concrete, block, brick, or stone. Include hex nut and washer.

Security Anchors—Set flush in recessed washer to help prevent tampering and removal.

Anchor Dia.	Anchor Length	Min. Embedment	Max. Fixture Thickness	Item No.	Pkg. Qty.
Standard, Zamac					
3/16 in	⅞ in	⅝ in	¼ in	**11K340**	100
¼ in	¾ in	⅝ in	3/16 in	**11K341**	100
	1 in	¾ in	¼ in	**11K342**	100
	1 ¼ in	¾ in	½ in	**11K343**	100
	1 ½ in	¾ in	¾ in	**11K344**	100
	2 in	¾ in	1 ¼ in	**11K345**	100
Standard, Steel					
¼ in	1 ¾ in	1 ⅛ in	⅜ in	**11K324**	50
	2 ⅜ in	1 ⅛ in	1 in	**11K325**	50
5/16 in	2 in	1 ⅜ in	3/16 in	**11K326**	25
	2 ¾ in	1 ⅜ in	1 in	**11K327**	25
⅜ in	3 ½ in	1 ½ in	1 in	**11K329**	25
	4 ¾ in	1 ¾ in	2 ⅝ in	**11K330**	25
½ in	2 ¾ in	2 in	¼ in	**11K331**	10
	3 ½ in	2 ¼ in	¾ in	**11K332**	10
⅝ in	4 in	2 ¾ in	1 ⅝ in	**11K335**	5
	6 in	2 ¾ in	2 in	**11K336**	5
¾ in	5 in	3 ½ in	2 in	**11K337**	4
	6 in	3 ½ in	2 in	**11K338**	4
	7 ½ in	3 ½ in	2 in	**11K339**	4
Standard, Carbon Steel					
⅜ in	2 ⅜ in	1 ⅜ in	⅝ in	**11K328**	25
½ in	4 ¾ in	2 ¼ in	2 in	**11K333**	10
	6 in	2 ¼ in	3 ¼ in	**11K334**	10
Security Anchors, Carbon Steel Body (Hardened Pin)					
¼ in	1 ¾ in	1 in	½ in	**15W081**	10
	2 ⅜ in	1 in	⅞ in	**15W082**	10
5/16 in	2 ¾ in	1 ¼ in	1 ¼ in	**15W083**	10
⅜ in	2 ⅜ in	1 ½ in	⅝ in	**15W084**	10
	3 ½ in	1 ½ in	1 ¾ in	**15W085**	5
	5 in	1 ½ in	3 ¼ in	**15W086**	5
½ in	2 ¾ in	2 in	¾ in	**15W087**	5
	3 ½ in	2 in	1 ½ in	**15W088**	5
	4 ¾ in	2 in	2 ¾ in	**15W089**	5
	6 in	2 in	4 in	**15W090**	2
⅝ in	4 in	2 ½ in	1 ½ in	**15W091**	2
	6 in	2 ½ in	3 ½ in	**15W092**	2
¾ in	5 in	3 in	2 ¼ in	**15W093**	2
	6 in	3 in	3 ¼ in	**15W094**	2

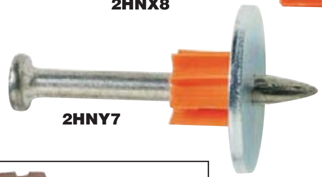
Steel Toggle Bolts

Spring-type wing with combo head screw is easy-to-install. Use for light-duty applications such as block, drywall, hollow walls, ceiling, and steel construction.

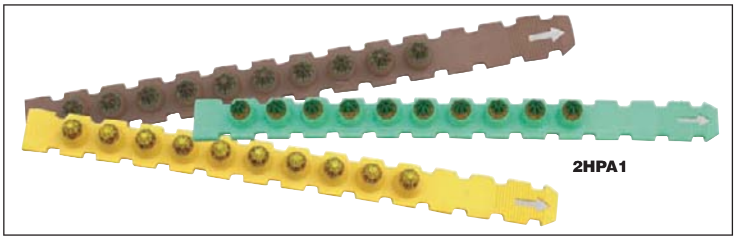
Thread Size	Drill Size	Wing Span	Pkg. Qty.	2 in LENGTH Item No.	3 in LENGTH Item No.	4 in LENGTH Item No.	5 in LENGTH Item No.	6 in LENGTH Item No.
#6-32	½ in	1.5 in	50	**11K301**	**11K302**	**11K303**	—	—
#10-24	9/16 in	2 in	50	**11K304**	**11K305**	**11K306**	**11K307**	**11K308**
¼"-20	11/16 in	2 in	50	—	**11K309**	**11K310**	**11K311**	**11K312**
⅜"-16	1 in	2.875 in	25	—	**11K313**	**11K314**	**11K315**	**11K316**

2HNW6

2HNX8



2HNY7



2HPA1

Ramset® DRIVING JOBSITE SPEED

Powder-Actuated Tool

For fast, secure fastening into steel, concrete, and masonry. Ergonomically designed for operator comfort and safety. Trigger-operated tool uses 10-load powder strips for efficient operation and has automatic powder load ejection and steel construction.

Description	Caliber	Tool Length (In)	Tool Weight (lb.)	Mfr. Model	Item No.
Power-Actuated Tools					
Capacity 2 -1/2 in Pins and 3 in Pin with Washer					
Semi-Automatic, 10 Load Strip	0.27	13 ¼ in	4.5 lb	COBRA	**2HNW6**

Description	Mfr. Model	Item No.		Pkg. Qty.
Knurled Pins				
½ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1503K	**2HNX8**	*	100
Straight Pins				
¾ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1506	**2HNX9**	*	100
1 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1508	**2HNY1**	*	100
1 ¼ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1510	**2HNY2**	*	100
1 ½ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1512	**2HNY3**	*	100
2 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1514	**2HNY4**	*	100
2 ½ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1516	**2HNY5**	*	100
3 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1524	**2HNY6**	*	100
Fastening Pins With 1" Washer				
¾ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1506SD	**2HNY8**	*	100
1 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1508SD	**2HNY7**	*	100
1 ¼ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1510SD	**2HNY9**	*	100
1 ½ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1512SD	**2HNZ1**	*	100
2 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1514SD	**2HNZ2**	*	100
2 ½ in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1516SDC	**2HNZ3**	*	100
3 in" Length, 0.3 in00 Head Dia./0.145 in Shank Diameter	1524SDP	**2HNZ4**	*	100
Powder Loads				
0.27, Green, Fastening	3RS27	**2HPA1**		100
0.27, Yellow, Fastening	4RS27	**2HPA2**		100
0.27, Red, Fastening	5RS27	**2HPA3**		100

**** All pins are 1060-1065 steel with core hardness of 52-56 Rc.***

Shower Rod Anchor 6UTD3

Grab Bar Anchor 6UTC7

WingIts® The Solutions Company

Shower and Grab Bar Anchors

Shower Rod Anchor—Use with crescent and oval curved shower rods when there is insufficient structural blocking. Installs quickly into any hollow wall substrate up to 1¼" thick. Made of fire-retardant plastic material. Includes 4 stainless steel screws, 4 wings, and waterproof adhesive tape.

Grab Bar Anchors—Watertight installation eliminates blocking, even over grout lines in drywall with tile. 6UTC8 is rated up to 600 lb. and 6UTC7 is rated up to 800 lb. Each includes stainless steel screws. Meet ADA guidelines and commercial building codes. Installation into bare ½" drywall is not compliant with commercial building codes.

Wall and Tile Drill Bits and Sets—Precision bits cut fast, clean holes to install anchors in ceramic wall tile, wallboard, glass, steel, marble, and plaster. Made of industrial carbide.

Grab Bar Anchor 6UTC8

Material	Item No.	Pkg. Qty.
Shower Rod Anchor		
Fire Retardant Structural Plastic	**6UTD3**	2
Grab Bar Anchors		
Stainless Steel	**6UTC7**	2
Fire Retardant Structural Plastic	**6UTC8**	2
Wall and Tile Drill Bits and Sets		
¾"	**6UTC9**	1
¼ in, ¾ in, 1 ¼ in	**6UTD1**	3
¼ in, ½ in, ¾ in, 1 in, 1 ¼ in	**6UTD2**	1
1¼"	**6UTD0**	1

Wall and Tile Drill Bit 6UTC9

Hollow-Wall Anchor

Hollow-Wall Anchor, Self Setting

Hollow-Wall and Caulking Anchors

Caulking Anchor

For light-duty applications.

Hollow-Wall Anchors—Easy-to-install anchors expand behind the wallboard.

Hollow-Wall Anchors, Self Setting—11K362 and 11K363 require no predrilling; with pointed tip, anchor drives into wall.

Caulking Anchors—Zamac Cone with 3% to 5% Antimonial Lead Expander. For use with hollow-walls, brick, and block.

Screw Size	Screw Length	Wall Thickness	Drill Size	Item No.	Pkg. Qty.
Hollow Wall Anchors					
3/16"	2 1/16 in	1/8 in to 5/8 in	3/8 in	**11K358**	50
M4(6#-32)	1 3/4 in	3/8 in to 5/8 in	5/16 in	**11K355**	100
M4(6#-32)	1 in	1/8 in to 1/2 in	5/16 in	**11K356**	100
M4(6#-32)	1 1/4 in	1/8 in to 1/2 in	5/16 in	**11K362**	100
M4(6#-32)	2 in	5/8 in to 1 1/4 in	5/16 in	**11K357**	100
M4(6#-32)	2 3/8 in	5/8 in to 1 1/4 in	5/16 in	**11K363**	100
Caulking Anchors					
1/4 in	7/8"	—	1/2"	**11K364**	50
5/16 in	1"	—	5/8"	**11K365**	25
3/8 in	1 1/4"	—	3/4"	**11K366**	25

Conical Screw Anchor

Flanged Anchor

Plug Anchor

Conical and Plug Anchors

- Plastic

Corrosion-resistant anchors are for light-duty applications in hollow walls, brick, and block.

Screw Size	Drill Size	Includes	Brand	Item No.	Pkg. Qty.
Hollow Wall Anchor					
Conical					
#6	3/16 in	(100) Plastic Anchors, Number 11K367, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #6 x 3/4 in, and 1 Pcs Carbide Tipped Masonry Drill	—	**40L970**	100
#6 to #8	3/16 in	—	—	**11K367**	100
#8	3/16 in	(100) Plastic Anchors, Number 11K368, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #10 x 1 in, and 1 Pcs Carbide Tipped Masonry Drill	—	**40L971**	100
#8 to #10	3/16 in	—	—	**11K368**	100
#10	1/4 in	(100) Plastic Anchors, Number 11K369, (100) Combo Slotted/Phillips Pan Head Sheet Metal Screws #10 x 1 in, and 1 Pcs Carbide Tipped Masonry Drill	—	**40L969**	100
#10 to #12	1/4 in	—	—	**11K369**	100
#14	5/16 in	(50) Plastic Anchors, Number 11K370, (50) Combo Slotted/Phillips Pan Head Sheet Metal Screws #14 x 1 1/2 in, and (1) Carbide Tipped Masonry Drill	—	**40L972**	50
#14 to #16	5/16 in	—	—	**11K370**	50
Flanged					
#4 to #10	3/16 in	—	DeWalt	**54TV25**	100
#6 to #12	1/4 in	—	DeWalt	**54TV26**	100
#8 to #14	5/16 in	—	DeWalt	**54TV27**	100
Hollow Brick Anchor					
Plug					
#6 to #8	3/16 in	—	—	**11K371**	100
#10 to #12	9/32 in	—	—	**11K373**	100

12F257

11K317

6UTC4

38VC32

Hollow-Wall and Drywall Anchors

Hammer-In Drywall Anchors—Install with no drilling necessary. Easy to remove, leaving only a tiny slit of a hole. Include anchors and screws. Meet ASTM E488 standard.

Hollow-Wall Anchors—Heavy-duty hollow-wall plastic anchors are designed for use in plaster, wallboard, concrete block or hollow tile. Feature 5/16" drill size and easily adjust to accommodate wall thickness up to 2½" when using a short bolt.

MASTER Anchor Hollow Wall Anchors—Structural plastic and stainless steel anchors secure objects up to 300 lb. in drywall and will work in holes created by other anchors' failure. Objects can be easily repositioned without loss of anchor integrity. Each includes faceplate, tape, and wings.

8-32 Thread Size supports most bathroom accessories. Can also be used for guest room window dressings, heavy drapery rods, shelving, cabinets, pedestal sinks, dispensers, coat hooks, railings, and most wall-mount accessories with 1" base or larger.

10-32 Thread Size supports low-profile or tilting-mount flatscreen TVs, bathroom partitions, commercial products, and electrical panel boxes.

Self-Drilling Drywall Anchors—Preserve drywall integrity at installation and when screws are removed. Deep thread provides strong engagement in 3/8", 1/2", and 5/8" drywall. No predrilling or hole preparation necessary. Can be easily backed out.

- For plastic use #8 sheet metal screws

Screw Thread Dia.	Grip Range	Includes	Anchor Material	Brand	Item No.	Pkg. Qty.
Hammer-In Drywall Anchors						
#8	1/2 in to 5/8 in	Anchors and Screws	Engineered Plastic	WallClaw	**12F254**	4
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F255**	10
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F256**	25
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F257**	50
	1/2 in to 5/8 in		Engineered Plastic	WallClaw	**12F258**	100
Hollow-Wall Anchors						
#6 to #8	1/8 to 1/4 in	Plastic Setting Key	Plastic	—	**11K317**	100
	3/8 to 1/2 in		Plastic	—	**11K319**	100
	5/8 to 3/4 in		Plastic	—	**11K321**	100
	1 in	—	Plastic	—	**11K323**	50
MASTER Anchor Hollow Wall Anchors						
#8	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Anchor	Fire Retardant Structural Plastic	WingIt	**6UEU5**	6
	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Wings	Fire Retardant Structural Plastic	WingIt	**6UTC1**	2
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC2**	24
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC3**	100
#10	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Anchor	Fire Retardant Structural Plastic	WingIt	**6UEU6**	6
	1 5/16 in	Stainless Steel Screw, Faceplate, Tape and Wings	Fire Retardant Structural Plastic	WingIt	**6UTC4**	2
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC5**	24
	1 5/16 in		Fire Retardant Structural Plastic	WingIt	**6UTC6**	100
Self-Drilling Drywall Anchors						
#6 to #10	3/8 to 1/2 in	—	Plastic	—	**11K352**	100
	3/8 to 5/8 in		Zamac	—	**38VC32**	100
	3/8 to 1 in	Anchors and Screws	Zamac	—	**38VC33**	25

Description	Includes	Item No.
Floor Mount		
Corner Bracket,Stainless Steel	(1) Stainless Steel Corner Bracket, ¼ in Thick, 6 in High, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C154
High Z-Bracket,1 In,Stainless Steel	(1) Z-Bracket With 1 in High Rise, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C848
High Z-Bracket,2 In,Stainless Steel	(1) Z-Bracket With 2 in High Rise, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C849
Ratchet Strap w/Corner Brackets,90 In	(1) 2 in X 90 in Strap With Wide-Handle Ratchet And Floor-Mount Plate,(1) 2 in X 180 in Strap With Floor-Mount Plate, (2) Corner Brackets, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C158
Ratchet Strap,30 In,Gray	(1) 2 in X 30 in Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2 in X 180 in Strap With Floor-Mount Plate, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C156
Ratchet Strap,60 In,Gray	(1) 2 in X 60 in Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2 in X 180 in Strap With Floor-Mount Plate, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C157
Ratchet Strap,90 In,Gray	(1) 2 in X 90 in Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2 in X 180 in Strap With Floor-Mount Plate, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C159
Ratchet Strap,180 In,Gray	(1) 2 in X 180 in Strap With Wide-Handle Ratchet And Floor-Mount Plate, (1) 2 in X 180 in Strap With Floor-Mount Plate, (2) ⅜ in Drop Anchors, (2) ⅜ in Anchor Bolts, (2) ⅜ in Washers, Instructions	12C155
Equipment Cable Bracket w/ Quick Disconnect, Silver	(2) 4 in x 4 in Stainless Steel Plates with 3M VHB Closed Cell Adhesive,(2) Quick Links,(2) 6 in Stainless Steel Cables, (2) Stainless Steel Attachment Plates,(4) Surface Prep Pads, Instructions Manual	31NJ18
Wall Mount		
Flammable Cabinet Strut Fastener,Gray	Strut Straps: (2) 2 in X 16 in Strut Straps With Industrial Hook and Loop And Metal Mounting Bracket, (2) ⅜ in Strut-Washer Nuts, (2) ⅜ in X 1 in 16-Tip Grade 5 Bolts, (2) ⅜ in Flat Washers, (2) Surface Prep Pads, Instructions	12C165
Wall Strap w/Side Release Buckle,Black	(2) 1 in X 48 in Straps Using A Steel Plate With 3M(R) VHB Adhesive and Steel Buckle, (2) ¼ in Metal Stud Anchor With Instructions, (2) ¼ in Metal Stud Screw, (2) ¼ in Wood Stud Screw, (2) ¼ in X 1 in Washer, (2) Surface Prep Pad, Instructions	12C166
Wall Strap w/Side Release Buckle,Gray		12C167
File Cabinet Fastener Strap,Black	(1) 2 in X 12 in Strap With Industrial Hook And Loop, (1) ¼ in Metal Stud Anchor With Instructions, (1) ¼ in Metal Stud Screw, (1) ¼ in Wood Stud Screw, (1) ¼ in X 1 in Washer, (1) Surface Prep Pad, Instructions	12C168
File Cabinet Fastener Strap,Gray		12C169
Ganging File Strap,Black	(2) 2 in X 14 in Straps With Industrial Hook And Loop On Each Side, (4) Surface Prep Pads, Instructions	12C160
Ganging File Strap,Gray		12C161
Equipment Wall Strap ,Black	(2) 2 in X 48 in Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ¼ in Wood Stud Screws, (2) ¼ in Metal Stud Anchors With Instructions, (2) ¼ in Metal Stud Screws, (2) ¼ in X 1 in Washers, (2) Surface Prep Pads, Instructions	12C839
Equipment Wall Strap,White		12C840
Cart-to-Wall Strap,Black	(1) 16 in Strap W/D-Rings, (1) 8 in Strap W/Quick-Disconnect Buckle, (1) ¼ in Wood Stud Screw, (1) ¼ in Metal Stud Anchor W/Instructions, (1) ¼ in Metal Stud Screw, (1) ¼ in X 1 in Washer, Instructions	12C841
Cart-to-Wall Strap,Gray		12C842
Strut Straps w/Side Release Buckle,Black	(2) 2 in X 48 in Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ⅜ in Strut-Washer Nuts, (2) ⅜ in X 1 in Bolts, (2) ⅜ in X 1½ in Flat Washers, (2)Surface Prep Pads, Instructions	12C845
Strut Straps w/Side Release Buckle,White	(2) 2 in X 48 in Straps With Industrial Hook And Loop With Side-Release Buckle, (2) ⅜ in Strut-Washer Nuts, (2) ⅜ in X 1 in Bolts, (2) ⅜ in X 1½ in Flat Washers, (2) Surface Prep Pads, Instructions	12C846
Equipment Cable Bracket w/ Quick Disconnect, Silver	(2) 24 in Stainless Steel Cables, (2) 4 in X4 in Stainless Steel Attachment Plates with 3M VHB Adhesive,(4) Quick Links,(2) SS Wall/Strut Brackets,(2) ⅜ in Strut-Washer Nuts,(2) ⅜ in x 1 in 16-TPI Grade 5 Bolts,(2) ⅜ in x 1 in Flat Washers,(2) Surface Prep Pads,Instructions Manual	31NJ19
Steel Furniture Cable,4 In,Silver	(2) End Cap, (1) 4 in Cable, (1) Furniture Plate, (1) Wall Plate, (2) 1½ in Screws, (1) 2 in Screw, Instructions	12C135
Countertop Equipment		
Equipment Fastener, 25 Lbs,Black	(4) 1 in X 2 in Buckles With 3M(R) VHB Adhesive, (2) ¾ in X 4 in Locking Straps, (2) Surface Prep Pads, Instructions	12C147
Equipment Fastener, 25 Lbs,Gray	(4) 1 in X 2 in Buckles With 3M(R) VHB Adhesive, (2) ¾ in X 4 in Locking Straps, (2) Surface Prep Pads, Instructions	12C148
Equipment Fastener, 50 Lbs,Black	(4) 2 in X 2 in Buckles With 3M(R) VHB Adhesive, (2) 1 in X 5 in Locking Straps, (2) Surface Prep Pads, Instructions	12C149
Equipment Fastener,50 Lbs,Gray	(4) 2 in X 2 in Buckles With 3M(R) VHB Adhesive, (2) 1 in X 5 in Locking Straps, (2) Surface Prep Pads, Instructions	12C150
Equipment Fastener,200 Lbs,Black	(4) 2 in X 3 in Buckles With 3M(R) VHB Adhesive, (2) 1 in X 8 in Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C151
Equipment Fastener, 200 Lbs,Gray	(4) 2 in X 3 in Buckles With 3M(R) VHB Adhesive,(2) 1 in X 8 in Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C152
Equipment Fastener,200 Lbs,White	(4) 2 in X 3 in Buckles With 3M(R) VHB Adhesive, (2) 1 in X 8 in Locking Straps With Holes, (2) Surface Prep Pads, Instructions	12C153
HPLC 2-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M(R) VHB Adhesive, (4) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive,(2) 12 in Coated Locking Straps, (4) Surface Prep Pads, Instructions	12C138
HPLC 3-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M(R) VHB Adhesive, (6) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive, (2) 16 in Coated Locking Straps, (6) Surface Prep Pads, Instructions	12C139
HPLC 4-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M(R) VHB Adhesive, (8) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive, (2) 20 in Coated Locking Straps, (8) Surface Prep Pads, Instructions	12C140
HPLC 5-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M VHB Adhesive, (10) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive, (2) 24 in Coated Locking Straps, (10) Surface Prep Pads, Instructions	12C141
HPLC 6-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M VHB Adhesive, (12) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive,(2) 28 in Coated Locking Straps, (12) Surface Prep Pads, Instructions	12C142
HPLC 7-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M VHB Adhesive, (14) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive, (2) 32 in Coated Locking Straps, (14) Surface Prep Pads, Instructions	12C143
HPLC 8-Stack Fastener Kit,Gray	Two Fastener Assemblies: (2) 2 in X 2 in Countertop Buckles With 3M VHB Adhesive, (16) 1 in X 2 in Equipment Buckles With 3M VHB Adhesive, (2) 36 in Coated Locking Straps, (16) Surface Prep Pads, Instructions	12C144
Lasso Strap Fastener, 25 Lbs,Gray	(1) 1 in X 2 in Buckle With 3M(R) VHB Adhesive, (1) ¾ in X 30 in Locking Strap With D-Ring, (2) Surface Prep Pads, Instructions	12C145
Lasso Strap Fastener, 50 Lbs,Gray	(1) 2 in X 2 in Buckle With 3M(R) VHB Adhesive, (1) 1 in X 30 in Locking Strap With D-Ring, (2) Surface Prep Pads, Instructions	12C146
Specialty		
Gel Pad Seismic Fastener,Clear	(4) 1 in X 1 in Two-Sided Fasteners, (2) Surface Prep Pads, Instructions	12C137
Fire Extinguisher Fastening Strap,Red	(1) Fire Extinguisher Strap, (1) ¼ in Wood Stud Screw, (1) ¼ in Metal Stud Anchor W/ Instructions, (1) ¼ in Metal Stud Screw, (1) ¼ in X 1 in Washer, Instructions	12C843
Flat Screen Safety Strap,Black	(2) 1 in X 18 in Straps, (2) Buckles (2 in X 2 in) With 3M(R) Ahdesive, (2) 8mm x 20mm Machine Screw, (2) 8mm Washers, (2) 6mm x 16mm Machine Screw, (2) 6mm Washers, (2) Wood Screws, (2) Alcohol Pads, ¼ oz Putty, (2) Surface Prep Pads, Instructions	12C136
Large Floor Equipment Push Button Strut Strap	(2) 2 in X 15 in Straps with Hook-and-Loop and Push Button Buckle, (2) 30 in Adjusting Straps with Mounting Bracket, (2) ⅜ in Strut Nuts, (2) ⅜ in x ¾ in 16-tpi, Grade 5, Bolts, (2) ⅜ in X 1 in Flat Washers, (2) Surface Prep Pads, Instruction Sheet	30ZM78
FlexMount Bar - 6 pack	(6) 24 in x 2 in Rear Mounted Bar with 3M VHB (Very High Bond) Adhesive, (12) Surface Prep Pads, Instruction Sheet	30ZM79
FlexMount BioLocking Straps 2"X2" Buckle	(2) 12 in Bio Straps with Carabiners, (2) Thumb Lock 2 in x 2 in Fasteners with 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM80
FlexMount BioLocking Straps 2"X3" Buckle	(2) 12 in Bio Straps with Carabiners, (2) Thumb Lock 2 in x 3 in Fasteners With 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM81
FlexMount BioCoated Flexible Straps	(2) 12 in Bio Straps with Carabiners, (2) Flexible Strap Attachment with 6 in Industrial Hook-and-Loop and Side Release Buckles, (2) Surface Prep Pads, Instruction Sheet	30ZM82
FlexMount Monitor/Microscope Bio Coated Flexible Straps	12 in Bio Strap with Buckle and Carabiner, Instruction Sheet	30ZM83
FlexMount Cable Fasteners	(2) 12 in Cable with Carabiners, (2) 2 in x 3 in Stainless Steel 316 Plates with 3M VHB (Very High Bond) Adhesive, (2) Surface Prep Pads, Instruction Sheet	30ZM84

Countertop Equipment 12C141

QUAKE HOLD!

Seismic Bracing Fasteners

Earthquake fasteners secure file cabinets, top heavy furniture, lab equipment, hospital equipment and office equipment that is required for IBC compliance.

FLOOR-MOUNT

Corner bracket is used for equipment with round/square legs or corners without legs. Z-brackets are used with equipment that have adjustable legs. Ratchet straps are used for multidoor refrigerators, freezers, and large floor equipment.

WALL-MOUNT

Flammable cabinet strut fastener secures flammable and toxic corrosive cabinets to wall stud. Wall strap is used for copiers and medium-size equipment. File cabinet strap is used for file cabinets, storage cabinets, and other types of similar cabinets. Ganging file cabinet straps are used for ganging file cabinets and similar cabinets together. Equipment wall straps are used for strapping kitchen refrigerators, freezers, and other similar sized items. Cart-to-wall are used for carts, metro racks, and tubular furniture. Strut straps secure refrigerators, freezers, and similar items. Adhesive plate assemblies secure large counter top equipment, refrigerators, and freezers. Steel furniture cable secures tall and top-heavy furniture to wall.

COUNTERTOP

Equipment fasteners are used for countertop and desktop equipment. HPLC Stack fastener kits are used for countertop and desktop stacked equipment. Lasso Strap fasteners are used for countertop and desktop pedestal equipment.

SPECIALTY

Gel pad seismic fastener is used for flat-bottomed equipment weighing less than 25 lb.

3NVK5

3NVL8

3NVJ8

LOCTITE

Anchor Adhesives, Mixing Nozzles and Applicators

- Cure time: 4 hr.

High performance for greater tension load capacity. Use to anchor threaded rods, bolts, and dowels into concrete, grout-filled block, and masonry. Solvent-free and odorless.

Description	Item No.
Anchoring Adhesives	
Fixmaster Anchor Bolt Grout HP Kit, Cartridge, 8.6 oz.	3NVK3
Fixmaster Anchor Bolt Grout HP Kit, Dual Cartridge, 20.7 oz.	3NVK5
Mixing Nozzles	
For Use With 3NVK3	3NVL8
For Use With 3NVK5	3NVN1
Applicators	
For Use With 3NVK3	3NVJ8
For Use With 3NVK5	3NVK1

53TX70

53TX72

1ZNK9

RED HEAD CONCRETE ANCHORING SYSTEMS

Anchor Adhesives and Applicators

A7 Acrylic—All-weather formula holds tight at low temperatures. Fast-curing adhesive works in 35 min. at 60°F. Product is not ration mix-sensitive and is ideal for use in damp holes and underwater applications. Single formula for both hollow and solid base materials. Nondrip, nonsag, easy cleanup. Temp. range: 0° to 110°F.

Description	Item No.
Anchoring Adhesives	
A7 Acrylic, 10 oz.	53TX69
A7 Acrylic, 28 oz.	53TX70
A7 Acrylic Anchoring Adhesive Kits	
Includes Mixing Nozzle, Hand Dispenser	53TX71
Includes Mixing Nozzle, Caulking Gun Adapter	53TX72
Mixing Nozzles	
Nozzle - For Use with G5 22-Oz and A7 28-Oz. Cartridge 4BY26 and 5HE71	4BY21
Mixing Nozzle for C6P-20, overall length 10”	30EC83
A7 Nozzle - For Use with 5- and 8-Oz. Cartridges 5HE66 and 4UJ69	4UJ68
Acrylic Adhesive Dispensers	
Metal Injection Tool - For Use with A7 10-Oz. Cartridge 1PJB6	1ZNK9

Spin-in Capsule

Stud Assembly

MKT

Chemical Anchor Capsules and Stud Assemblies

- Cure time: 10 to 20 min.
- Mixing ratio 7:1

Premeasured adhesive can be double stacked and requires no installation tool. Glass capsules are made from polyester resin, quartz sand, and benzoyl peroxide hardener. Sand and aggregate mixture is closest to natural concrete. Spin-In are for chamfered threaded rod and rebar. Stud assemblies are zinc-plated carbon steel.

Container Size	Temp. Range (F)	Anchor Dia.	Rod Dia.	Drill Size	Min. Embedment	Min. Hole Depth	Ultimate Tension in 4000 psi Concrete (lb.)	Item No.	Pkg. Qty.
Spin-in Capsule									
½ in x 6¼ in	23° to 86°	½ in	½ in	9/16 in	4 ½ in	4 ½ in	12,770 lb	21P651	10
⅝ in x 7½ in	23° to 86°	⅝ in	⅝ in	11/16 in	5 in	5 in	19,770 lb	21P652	10
⅜ x 5 in	23° to 95°	⅜ in	⅜ in	7/16 in	3 ½ in	3 ½ in	7,800 lb	35T288	10
¾ in x 10¼ in	23° to 86°	¾ in	¾ in	⅞ in	6 ½ in	6 ½ in	26,970 lb	21P653	6
⅞ in x 11¾ in	23° to 95°	⅞ in	⅞ in	1 in	7 ½ in	7 ½ in	31,580 lb	35T289	6
1 in x 11¾ in	23° to 95°	1	1	1 ⅛ in	8 ½ in	8 ½ in	43,090 lb	35T290	6

Anchor Dia.	L	Item No.	Pkg. Qty.
Fully Threaded Stud			
For Use With Spin In Capsule			
⅞ in	11 ¾ in	35T296	6
Stud Assembly			
For Use With Hammer Capsule And Other Adhesives			
⅝ in	8 in	35T303	10
⅝ in	12 in	35T304	10
¾ in	8 in	35T305	10
For Use With Spin In Capsule			
⅜ in	5 in	35T292	10
½ in	6.25 in	35T293	10
⅝ in	7.5 in	35T294	10
¾ in	10.25 in	35T295	6
1 in	11.75 in	35T297	6

O-Ring Information

DEFINITIONS

AS568 Dash Number—A universal standard that defines the sizes and tolerances for O-rings.

Durometer/Hardness—Elastomer material hardness is referred to as "durometer" within a material, the higher durometer number, the harder the material.

Material Comparison Chart

	Buna N	EPDM	Neoprene	Polyurethane	PTFE	Silicone	Viton®	Viton® ETP
Physical Properties								
Durometer	70 Shore A/ 90 Shore A	70 Shore A	70 Shore A	70 Shore A	55 Shore D	70 Shore A	75 Shore A/ 90 Shore A	75 Shore A
Hardness	Medium Hard/Hard	Medium Hard	Medium Hard	Medium Hard	Very Hard	Medium Hard	Hard/Hard	Hard
Temperature Range	-40° to 250°/	-65° to 300°F	-40° to 275°F	-40° to 180°F	-100° to 500°F	-65° to 450°F	-15° to 400°F	-10° to 400°F
Tensile Strength	Good	Good	Good	Excellent	Excellent	Poor	Good	Good
Compression Set	Good	Good	Fair	Fair	Poor	Good	Excellent	Poor
Resilience	Good	Good	Good	Good	Poor	Fair	Good	Good
Tear Strength	Good	Good	Good	Excellent	Fair	Poor	Fair	Fair
Gas Impermeability	Good	Good	Good	Good	Good	Poor	Good	Good
Environmental Resistance Abrasion								
Abrasion	Good	Good	Good	Excellent	Good	Poor	Good	Good
Cold	Good	Excellent	Good	Good	Excellent	Excellent	Poor	Poor
Flame	Poor	Poor	Excellent	Poor	Excellent	Fair	Excellent	Excellent
Heat	Good	Good	Good	Fair	Excellent	Excellent	Excellent	Excellent
Ozone	Poor	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Radiation	Poor	Good	Fair	Poor	Excellent	Excellent	Poor	Poor
Weather	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Chemical Resistance								
Acetone	Poor	Excellent	Poor	Poor	Excellent	Poor	Poor	Fair
Anhydrous Ammonia	Good	Excellent	Excellent	Poor	Excellent	Fair	Poor	Fair
Animal Fats	Excellent	Good	Good	Fair	Excellent	Fair	Excellent	Excellent
Bleach	Poor	Excellent	Fair	Poor	Excellent	Good	Excellent	Excellent
Carbon Dioxide	Excellent	Good	Good	Excellent	Excellent	Good	Excellent	Excellent
Detergents	Excellent	Excellent	Good	Poor	Excellent	Excellent	Excellent	Excellent
Diesel Oil	Excellent	Poor	Fair	Fair	Excellent	Poor	Excellent	Excellent
Ethanol	Fair	Excellent	Excellent	Poor	Excellent	Good	Poor	Excellent
Fatty Acids	Good	Fair	Good	Fair	Excellent	Fair	Excellent	Excellent
Gasoline	Good	Poor	Poor	Good	Excellent	Poor	Excellent	Excellent
Hydraulic Oils (Petroleum)	Excellent	Poor	Good	Excellent	Excellent	Good	Excellent	Excellent
Hydrochloric Acid (37%)	Poor	Fair	Poor	Poor	Excellent	Fair	Excellent	Excellent
Kerosene	Excellent	Poor	Good	Excellent	Excellent	Poor	Excellent	Excellent
Liquid Propane Gas	Excellent	Poor	Good	Excellent	Excellent	Fair	Excellent	Excellent
Lubricating Oils (Petroleum)	Excellent	Poor	Good	Good	Excellent	Poor	Excellent	Excellent
Methanol	Poor	Excellent	Excellent	Poor	Excellent	Excellent	Poor	Excellent
Mineral Oil	Excellent	Fair	Good	Excellent	Excellent	Good	Excellent	Excellent
Natural Gas	Excellent	Poor	Excellent	Good	Excellent	Poor	Excellent	Excellent
Nitrogen	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Silicone Grease	Excellent	Excellent	Excellent	Excellent	Excellent	Fair	Excellent	Excellent
Steam	Poor	Excellent	Poor	Poor	Excellent	Fair	Poor	Good
Sulfuric Acid (Dilute)	Good	Excellent	Good	Poor	Excellent	Excellent	Excellent	Excellent
Toluene	Poor	Poor	Poor	Poor	Excellent	Poor	Excellent	Excellent
Vegetable Oils	Excellent	Fair	Fair	Fair	Excellent	Good	Excellent	Excellent
Water	Excellent	Excellent	Good	Poor	Excellent	Excellent	Good	Excellent

O-Ring Splicing Kits

LOCTITE®

Provide an assortment of O-ring cord stock for quick repair and replacement.

Description	Includes	Brand	Item No.
Buna N			
4-Pc. Splicing Kit	1 fl oz Cleanup Solvent, 1 fl oz Waterproofing Solution, ⅓ oz Loctite(R) 404(R) Quick Set(R) Instant Adhesive, Cord Stock, Cutting Blade, Plastic Box with Lid Card, Splicing Jig	Loctite	5A234
5-Pc. Splicing Kit, 70 Shore A	Adhesive, Cord Stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA2
9-Pc. Metric Splicing Kit, 70 Shore A	Adhesive, Cord stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA6
14-Pc. Inch/Metric Splicing Kit, 70 Shore A	Cord Stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA7
Viton			
5-Pc. Standard Splicing Kit, 75 Shore A	Adhesive, Cord Stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA3
Silicone			
5-Pc. Splicing Kit, 70 Shore A	Adhesive, Cord Stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA4
EPDM			
5-Pc. Splicing Kit, 70 Shore A	Adhesive, Cord Stock, Cutting Tool, Plastic Box with Lid Card, Splicing Jig	—	1RHA5

O-Ring Tools and Accessories

OTC®

Description	Application	Brand	Item No.
Measuring			
O-Ring Sizing Gauge	Measuring Device Used to Identify O-Ring Size	—	5JKC0
O-Ring Measuring Cone	Sizes 5⁄16 to 5⅝" I.D. Fits Standard Widths 0.070, 0.103, 0.139, 0.210, and 0.275"	—	1RGZ9
Installation			
O-Ring Splicing Jig	For O-Ring Cords 0.059" to 0.375", (1.5mm to 9.5mm)	—	1RHA8
O-Ring Tool, Solid Brass	To Minimize O-ring and Hydraulic Failures	—	4F418
O Ring/Oil Seal Pick Set	due to Improper Installation or Removal	OTC	5MG36
Rod Seal O-Ring Installation Tool, Plated Steel With Vinyl Handles	For The Installation Of 1" ID Seals Applied To Shaft Sizes 1 To 1 ½"	—	3CWA7
	For The Installation Of 1 ½" ID Seals Applied to Shaft Sizes 1 ½ To 2"	—	3CWA8
	For The Installation Of 2" ID Seals Applied To Shaft Sizes 2" And Over	—	3CWA9
Lubrication			
O-Ring Lubricant	For Ease of Installation of O-Rings	—	1RGZ6

5JKC0

1RGZ9

1RHA8

4F418

5MG36

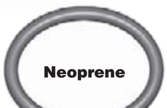
3CWA7

1RGZ6

1RGY9

O-Ring Assortments

No. of Sizes	No. of Pieces	Duro.	Sizes Incl.	Item No.
Buna N				
12	1,050	70 Shore A	AS568A Dash No. (100) Each of 006 to 012, 110 to 112, (25) Each of 113, 210	**1RGZ5**
27	216	90 Shore A	Flange Seals (8) Each of 210, 214, 219, 222, 225, 228, Flat Face Seals (8) Each of 011, 012, 014, 016, 018, 021, 025, 029, Boss Seals (8) Each of 902, 903, 904, 905, 906, 908, 910, 912, 914, 916, 920, 924, 932	**5JJT9**
30	382	70 Shore A	AS568A Dash No. (20) Each of 006 to 012, (13) Each of 110 to 116, (10) Each of 210 to 222, (7) Each of 325 to 327	**1RGX6**
30	385	70 Shore A	2mm C/S (16) Each of 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm; 2.5mm C/S (13) Each of 10mm, 11mm, 12mm, 14mm, 16mm, 17mm, 19mm; 3mm C/S (12) Each of 20mm, 22mm, 24mm, 25mm, 27mm, 28mm, 30mm, 32mm, 33mm, 35mm, 36mm, 38mm, (11) 9mm, 4mm C/S (9) Each of 38mm, 41mm, 44mm	**1RGY1**
30	385	90 Shore A		**1RGY2**
36	226	70 Shore A	AS568A Dash No. (10) Each of 005 to 012, (6) Each of 013 to 016, 110 to 116, (5) Each of 017 to 018, 210 to 219, (4) Each of 117 to 121	**1RGZ8**
36	380	70 Shore A	(12) P12 11.8 mm x 2.4 mm C/S, (12) P12.5 12.3 mm x 2.4 mm C/S, (12) P14 13.8 mm x 2.4 mm C/S, (12) P15 14.8 mm x 2.4 mm C/S, (12) P16 15.8 mm x 2.4 mm C/S, (15) P10 9.8 mm x 1.9 mm C/S, (15) P10A 9.8 mm x 2.4 mm C/S, (15) P11 10.8 mm x 2.4 mm C/S, (15) P11.2 11 mm x 2.4 mm C/S, (15) P7 6.8 mm x 1.9 mm C/S, (15) P8 7.8 mm x 1.9 mm C/S, (15) P9 8.8 mm x 1.9 mm C/S, (20) P4 3.8 mm x 1.9 mm C/S, (20) P5 4.8 mm x 1.9 mm C/S, (20) P6 5.8 mm x 1.9 mm C/S, (25) P3 2.8 mm x 1.9 mm C/S, (4) V15 14.5 mm x 4 mm C/S, (5) P22.4 22.1 mm x 3.5 mm C/S, (5) P22A 21.7 mm x 3.5 mm C/S, (6) G25 24.4 mm x 3.1 mm C/S, (6) P29 28.7 mm x 3.5 mm C/S, (6) P29.5 29.2 mm x 3.5 mm C/S, (6) P30 29.7 mm x 3.5 mm C/S, (6) P31 30.7 mm x 3.5 mm C/S, (6) P31.5 31.2 mm x 3.5 mm C/S, (6) V24 23.5 mm x 4 mm C/S, (7) G30 29.4 mm x 3.1 mm C/S, (7) P24 23.7 mm x 3.5 mm C/S, (7) P25 24.7 mm x 3.5 mm C/S, (7) P25.5 25.2 mm x 3.5 mm C/S, (7) P26 25.7 mm x 3.5 mm C/S, (7) P28 27.7 mm x 3.5 mm C/S, (8) P18 17.8 mm x 2.4 mm C/S, (8) P20 19.8 mm x 2.4 mm C/S, (8) P21 20.8 mm x 2.4 mm C/S, (8) P22 21.8 mm x 2.4 mm C/S	**1RGX9**
36	436	70 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	**3CWA4**
36	436	90 Shore A		**3CWA5**
36	500	70 Shore A	1.5mm C/S (20) 5mm, (15) 13mm, (10) 16mm; 1.6mm C/S (20) Each of 2.2mm, 3.1mm, 4.1mm, 7.1mm, (15) 9.1mm, 10.1mm, 13.1mm; 2mm C/S (20) Each of 4mm, 6mm, (15) 8mm, 9mm, 10mm, 12mm, (10) 14mm, 16mm, 19mm, 20mm; 2.4mm C/S (15) Each of 4.3mm, 5.3mm, 5.6mm, 7.6mm, 8.3mm, 8.6mm, (10) Each: 1.5x16mm, 2x14mm, x16mm, x19mm, x20mm; 2.5mm C/S (10) Each of 10mm, 13mm, 14mm, 15mm, 17mm, 18mm, 19mm; 3mm C/S (10) Each of 9mm, 10mm, 11mm	**1RGY3**
37	485	70 Shore A	AS568A Dash No. (32) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 222, (6) Each of 325 to 334	**1RGZ3**
81	1,415	90 Shore A	AS568A Dash No. 1⁄16 in C/S (25) Each of 006 to 018, (20) Each of 019 to 021, (15) Each of 022 to 026, 028, (10) Each of 029, 030, 3⁄32 in C/S (25) Each of 109 to 118, (20) Each of 119, 120, (15) Each of 121 to 127, (10) Each of 128, 129, 131, 133, (5) 135, 1⁄8 in C/S (20) Each of 210 to 214, (15) Each of 215 to 222, (10) Each of 223, 224, 226, 228, 232, 236, Boss (25) Each of 904, 907, 908, 910, (15) Each of 903, 906, 912, (10) 916, Flange Fitting O-Rings (10) Each of Flange Numbers 8, 12, 16, (5) Each of Flange Numbers 20, 24, 32	**5JJT8**
150	1,110	70 Shore A	AS568A Dash No. (20) Each of 001 to 016, (15) Each of 110 to 116, (10) Each of 017 to 024, 117 to 124, 210 to 216, (7) Each of 025 to 031, (5) Each of 032 to 043, 125 to 142, 217 to 229, 325 to 328, 901 to 914, 916, 918, 920, 924, 928, 932, (4) Each of 329, 339, (3) Each of 143 to 146, 230 to 232, (2) Each of 044 to 046, 147 to 151, 233 to 237, 331 to 338	**1RGX7**
Buna N and Viton(R)				
19	1,168	70 Shore A and 75 Shore A	AS568A Dash No. (65) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 214	**1RGY9**
24	610	70 Shore A	AS568A Dash No. Buna N (40) Each of 012, 013, 110, 112, 113, (30) Each of 007, 014, 016, 115, 214, (25) Each of 010, 011, 111, 116, 210, 211, (20) Each of 120, 212, 216, (10) Each of 218, 220, 222, 326, Viton (10) 120	**2NRY7**
PTFE				
36	325	55 Shore D	AS568A Dash No. (15) Each of 005 to 012, (10) Each of 013 to 018, 110 to 116, (5) Each of 117 to 121, 210 to 219	**1RHA1**
36	325	55 Shore D		**1RGZ7**
Silicone				
36	436	70 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	**3CVZ8**
Viton(R)				
20	212	90 Shore A	AS568A Dash No. (12) Each of 905 to 910, (10) Each of 901 to 904, 911 to 914, 916, 918, 920, 924, 928, 932	**1RGY6**
30	180	75 Shore A	AS568A Dash No. (10) Each of 006 to 012, 110 to 114, (5) Each of 115 to 116, 210 to 215, (2) Each of 216 to 222, 325 to 327	**1RGY4**
33	461	75 Shore A	AS568A Dash No. (32) Each of 006 to 012, (12) Each of 110 to 116, (9) Each of 210 to 222, (6) Each of 325 to 330	**1RGZ2**
36	436	75 Shore A	AS568A Dash No. (25) Each of 005 to 011, (15) Each of 012, 110, (10) Each of 013 to 018, 111 to 116, 210, 211, (7) Each of 117 to 121, 212 to 219	**3CWA3**
36	500	75 Shore A	1.5mm C/S (20) Each of 5mm, (15) 13mm, (10) 16mm; 1.6mm C/S (20) Each of 2.2mm, 3.1mm, 4.1mm, 7.1mm, (15) Each of 9.1mm, 10.1mm, 13.1mm; 2.0mm C/S (20) Each of 4mm, 6mm, (15) Each of 8mm, 9mm, 10mm, 12mm, (10) Each of 14mm, 16mm, 19mm, 20mm; 2.4 mm C/S (15) Each of 4.3mm, 5.3mm, 5.6mm, 7.6mm, 8.3mm, 8.6mm; 2.5mm C/S (10) Each of 10mm,13mm, 14mm, 15mm, 17mm, 18mm, 19mm	**1RGY7**
150	1,110	75 Shore A	AS568A Dash No. (10) Each of 210 to 216, (7) Each of 025 to 031, (5) Each of 032 to 043, 125 to 142, 217 to 229, 325 to 328, 901 to 914, 916, 918, 920, 924, 928, 932, (4) Each of 339, 329 (3) Each of 143 to 146, 230 to 232, (2) Each of 044 to 046, 147 to 151, 233 to 237, 331 to 338	**1RGY5**



PTFE and Neoprene O-Rings

- PTFE operating temp.: -300° to 500°F
- Neoprene operating temp.: -40° to 225°F

Round cross-section. Neoprene O-rings meet SAE J200 and ASTM D2000 standards.

Note: Polyurethane and FEP encapsulated O-rings with silicone or Viton® are also available; on Grainger.com®, search for "polyurethane O-rings", "FEP encapsulated with silicone O-rings", or "FEP encapsulated with Viton® O-rings."

Dash No.	Inside Dia.	Outside Dia.	PTFE - WHITE 55 SHORE D DUROMETER Item No.	PTFE Pkg. Qty.	NEOPRENE - BLACK 70 SHORE A DUROMETER Item No.	NEOPRENE Pkg. Qty.
Width: 1⁄16" Fractional (0.07 in Actual)						
004	5⁄64"	0.210"	**1RFZ1**	25	**1BUK8**	100
005	3⁄32"	0.241"	**1RFZ2**	25	—	—
006	1⁄8"	0.254"	**1RFZ3**	50	**1BUL1**	100
007	5⁄32"	0.285"	**1RFZ4**	50	**1BUL2**	100
008	3⁄16"	0.316"	**1RFZ5**	50	**1BUL3**	100
009	7⁄32"	0.348"	**1RFZ6**	50	**1BUL4**	100
010	1⁄4"	0.379"	**1RFZ7**	50	**1BUL5**	100
011	5⁄16"	0.441"	**1RFZ8**	50	**1BUL6**	100
012	3⁄8"	0.504"	**1RFZ9**	50	**1BUL7**	100
013	7⁄16"	0.566"	**1RGB1**	50	**1BUL8**	100
014	1⁄2"	0.629"	**1RGB2**	50	**1BUL9**	100
015	9⁄16"	0.691"	**1RGB3**	50	**1BUP1**	100
016	5⁄8"	0.754"	**1RGB4**	50	**1BUP2**	100
017	11⁄16"	0.816"	**1RGB5**	25	**1BUP3**	100
018	3⁄4"	0.879"	**1RGB6**	25	**1BUP4**	100
019	13⁄16"	0.941"	**1RGB7**	25	—	—
020	7⁄8"	1.004"	**1RGB8**	10	**1BUP6**	100
021	15⁄16"	1.066"	—	—	**1BUP7**	100
022	1"	1.129"	**1RGC1**	10	**1BUP8**	100
023	1 1⁄16"	1.191"	**1RGC2**	10	**1BUP9**	100
024	1 1⁄8"	1.254"	**1RGC3**	10	**1BUR1**	100
028	1 3⁄8"	1.504"	**1RGC5**	10	**1BUR3**	50
029	1 1⁄2"	1.629"	**1RGC6**	10	—	—
030	1 5⁄8"	1.754"	**1RGC7**	10	—	—
031	1 3⁄4"	1.879"	**1RGC8**	10	—	—
032	1 7⁄8"	2.004"	**1RGC9**	5	—	—
033	2"	2.129"	**1RGD1**	5	—	—
034	2 1⁄8"	2.254"	**1RGD2**	5	—	—
Width: 3⁄32" Fractional (0.103 in Actual)						
108	1⁄4"	0.443"	**1RGD6**	50	**1BUR7**	100
109	5⁄16"	0.505"	**1RGD7**	50	**1BUR8**	100
110	3⁄8"	0.568"	**1RGD8**	25	**1BUR9**	100
111	7⁄16"	0.630"	**1RGD9**	25	**1BUV1**	100
112	1⁄2"	0.693"	**1RGE1**	25	**1BUV2**	100
113	9⁄16"	0.755"	**1RGE2**	25	**1BUV3**	100
114	5⁄8"	0.818"	**1RGE3**	25	**1BUV4**	100
115	11⁄16"	0.880"	**1RGE4**	25	**1BUV5**	100
116	3⁄4"	0.943"	**1RGE5**	25	**1BUV6**	100
117	13⁄16"	1.000"	**1RGE6**	10	—	—
118	7⁄8"	1.068"	**1RGE7**	10	—	—
119	15⁄16"	1.130"	**1RGE8**	10	—	—
120	1"	1.193"	**1RGE9**	10	**1BUV9**	100
121	1 1⁄16"	1.255"	**1RGF1**	10	—	—
122	1 1⁄8"	1.318"	**1RGF2**	10	—	—
124	1 1⁄4"	1.443"	**1RGF4**	5	**1BUW2**	100
125	1 5⁄16"	1.505"	**1RGF5**	5	—	—
126	1 3⁄8"	1.568"	**1RGF6**	5	—	—
128	1 1⁄2"	1.693"	**1RGF8**	5	**1BUW3**	100
129	1 9⁄16"	1.755"	**1RGF9**	5	—	—
131	1 11⁄16"	1.880"	**1RGG2**	5	—	—
133	1 13⁄16"	2.005"	**1RGG3**	5	—	—
137	2 1⁄16"	2.256"	**1RGG5**	5	—	—
139	2 3⁄16"	2.381"	**1RGG6**	5	—	—
148	2 3⁄4"	2.943"	**1RGG9**	5	—	—
Width: 1⁄8" Fractional (0.139 in Actual)						
208	5⁄8"	0.887"	**1RGH4**	10	—	—
210	3⁄4"	1.012"	**1RGH5**	10	**1BUW6**	100
211	13⁄16"	1.074"	**1RGH6**	10	**1BUW7**	100
212	7⁄8"	1.137"	—	—	**1BUW8**	100
213	15⁄16"	1.199"	—	—	**1BUW9**	100
214	1"	1.262"	**1RGH9**	10	**1BUX1**	100
216	1 1⁄8"	1.387"	**1RGJ2**	10	—	—
217	1 3⁄16"	1.449"	**1RGJ3**	10	—	—
218	1 1⁄4"	1.512"	**1RGJ4**	10	**1BUX5**	100
219	1 5⁄16"	1.574"	**1RGJ5**	10	**1BUX6**	100
220	1 3⁄8"	1.637"	**1RGJ6**	10	—	—
222	1 1⁄2"	1.762"	**1RGJ8**	10	**1BUX9**	50
223	1 5⁄8"	1.887"	**1RGJ9**	10	**1BUZ1**	50
224	1 3⁄4"	2.012"	**1RGK1**	10	**1BUZ2**	50
225	1 7⁄8"	2.137"	**1RGK2**	5	**1BUZ3**	50
226	2"	2.262"	**1RGK3**	5	**1BUZ4**	50
227	2 1⁄8"	2.387"	**1RGK4**	5	**1BUZ5**	50
228	2 1⁄4"	2.512"	**1RGK5**	5	**1BUZ6**	50
229	2 3⁄8"	2.637"	**1RGK6**	5	**1BUZ7**	50
230	2 1⁄2"	2.762"	**1RGK7**	5	**1BUZ8**	25
231	2 5⁄8"	2.887"	**1RGK8**	5	—	—
232	2 3⁄4"	3.012"	**1RGK9**	5	—	—
233	2 7⁄8"	3.137"	**1RGL1**	5	—	—
234	3"	3.262"	**1RGL2**	5	—	—
235	3 1⁄8"	3.387"	**1RGL3**	5	—	—
236	3 1⁄4"	3.512"	**1RGL4**	5	**1BUZ9**	25
238	3 1⁄2"	3.762"	**1RGL6**	2	**1BVG5**	25
239	3 5⁄8"	3.887"	**1RGL7**	2	—	—
242	4"	4.262"	**1RGL8**	2	—	—
243	4 1⁄8"	4.387"	**1RGL9**	2	—	—
250	5"	5.262"	**1RGN2**	2	**1BVL2**	25
Width: 3⁄16" Fractional (0.21 in Actual)						
326	1 5⁄8"	2.020"	**1RGN5**	2	**1BVL5**	25
327	1 3⁄4"	2.145"	**1RGN6**	2	—	—
328	1 7⁄8"	2.270"	**1RGN7**	2	—	—
329	2"	2.395"	**1RGN8**	2	**1BVL7**	25
330	2 1⁄8"	2.520"	**1RGN9**	2	—	—
333	2 1⁄2"	2.895"	**1RGP1**	2	**1BVL9**	25
337	3"	3.395"	—	—	**1BWL2**	10
338	3 1⁄8"	3.520"	**1RGP4**	2	—	—
340	3 3⁄8"	3.770"	—	—	**1BWL4**	10
342	3 5⁄8"	4.020"	**1RGP6**	2	—	—
343	3 3⁄4"	4.145"	**1RGP7**	2	—	—
348	4 3⁄8"	4.770"	**1RGP8**	2	—	—

Buna N and Viton O-Rings

Standard O-rings can be used for sealing valves, faucets, engines, machines, and more. Round cross-section. Medium-hard. Meet SAE J200, ASTM D2000.

Note: Additional O-ring durometers and materials available; on Grainger.com, search for "Buna N 90 durometers O-rings", "Viton 90 durometer O-rings", "Silicone O-rings", or "EPDM O-rings."

Round Cross-Section

Buna N

			BUNA N - BLACK 70 DUROMETER SHORE A		VITON - BLACK 75 DUROMETER SHORE A	
Dash No.	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.	Item No.	Pkg. Qty.
Width: 1/32" Fractional (0.04 in Actual)						
001	1/32"	0.109"	1KER2	100	1BYA4	100
Width: 1/16" Fractional (0.06 in Actual)						
003	1/16"	0.176"	1KER5	100	1BYA7	100
Width: 1/16" Fractional (0.07 in Actual)						
004	5/64"	0.210"	1KER6	100	1BYA8	100
005	3/32"	0.241"	1KER7	100	1BYA9	100
006	1/8"	0.254"	1KER8	100	1BYB1 *	100
007	5/32"	0.285"	1KER9	100	1BYB2 *	100
008	3/16"	0.316"	1KET1	100	1BYB3 *	100
009	7/32"	0.348"	1KET2	100	1BYB4 *	100
010	1/4"	0.379"	1KET3	100	1BYB5 *	100
011	5/16"	0.441"	1KET4	100	1BYB6 *	100
012	3/8"	0.504"	1KET5	100	1BYB7 *	100
013	7/16"	0.566"	1KET6	100	1BYB8	100
014	1/2"	0.629"	1KET7	100	1BYB9	100
015	9/16"	0.691"	1KET8	100	1BYC1	100
016	5/8"	0.754"	1KET9	100	1BYC2	100
017	11/16"	0.816"	—	—	1BYC3	50
018	3/4"	0.879"	—	—	1BYC4	50
019	13/16"	0.941"	—	—	1BYC5	50
020	7/8"	1.004"	—	—	1BYC6	50
021	15/16"	1.066"	—	—	1BYC7	50
022	1"	1.129"	—	—	1BYC8	50
023	1 1/16"	1.191"	—	—	1BYC9	50
024	1 1/8"	1.254"	—	—	1BYD1	50
025	1 3/16"	1.316"	—	—	1BYD2	50
026	1 1/4"	1.379"	—	—	1BYD3	50
027	1 5/16"	1.441"	—	—	1BYD4	50
028	1 3/8"	1.504"	—	—	1BYD5	50
029	1 1/2"	1.629"	—	—	1BYD6	25
030	1 5/8"	1.754"	—	—	1BYD7	25
031	1 3/4"	1.879"	—	—	1BYD8	25
032	1 7/8"	2.004"	—	—	1BYD9	25
033	2"	2.129"	—	—	1BYF1	25
034	2 1/8"	2.254"	—	—	1BYF2	25
035	2 1/4"	2.379"	—	—	1BYF3	10
036	2 3/8"	2.504"	—	—	1BYF4	10
037	2 1/2"	2.629"	—	—	1BYF5	10
038	2 5/8"	2.754"	—	—	1BYF6	10
039	2 3/4"	2.879"	—	—	1BYF7	10
040	2 7/8"	3.004"	—	—	1BYF8	10
041	3"	3.129"	—	—	1BYF9	10
042	3 1/4"	3.379"	—	—	1BYG1	10
043	3 1/2"	3.629"	—	—	1BYG2	10
044	3 3/4"	3.879"	—	—	1BYG3	10
045	4"	4.129"	—	—	1BYG4	10
046	4 1/4"	4.379"	—	—	1BYG5	10
047	4 1/2"	4.629"	—	—	1BYG6	10
Width: 3/32" Fractional (0.103 in Actual)						
102	1/16"	0.255"	—	—	1BYH1	50
105	5/32"	0.349"	—	—	1BYH4	50
106	3/16"	0.380"	—	—	1BYH5	50
107	7/32"	0.412"	—	—	1BYH6	50
108	1/4"	0.443"	—	—	1BYH7	50
109	5/16"	0.505"	—	—	1BYH8	50
110	3/8"	0.568"	—	—	1BYH9 *	50
111	7/16"	0.630"	—	—	1BYJ1 *	50
112	1/2"	0.693"	—	—	1BYJ2 *	50
113	9/16"	0.755"	—	—	1BYJ3 *	50
114	5/8"	0.818"	—	—	1BYJ4 *	50
115	11/16"	0.880"	—	—	1BYJ5 *	50
116	3/4"	0.943"	—	—	1BYJ6 *	50
117	13/16"	1.005"	—	—	1BYJ7	50
118	7/8"	1.068"	—	—	1BYJ8	50
119	15/16"	1.130"	—	—	1BYJ9	50
120	1"	1.193"	—	—	1BYK1	50
121	1 1/16"	1.255"	—	—	1BYK2	50
122	1 1/8"	1.318"	—	—	1BYK3	50
123	1 3/16"	1.380"	—	—	1BYK4	25
124	1 1/4"	1.443"	—	—	1BYK5	25
125	1 5/16"	1.505"	—	—	1BYK6	25
126	1 3/8"	1.568"	—	—	1BYK7	25
127	1 7/16"	1.630"	—	—	1BYK8	25
128	1 1/2"	1.693"	—	—	1BYK9	25
129	1 9/16"	1.755"	—	—	1BYL1	25
130	1 5/8"	1.818"	—	—	1BYL2	25
131	1 11/16"	1.880"	—	—	1BYL3	10
132	1 3/4"	1.943"	—	—	1BYL4	10
133	1 13/16"	2.005"	—	—	1BYL5	10
134	1 7/8"	2.068"	—	—	1BYL6	10
135	1 15/16"	2.131"	—	—	1BYL7	10
136	2"	2.193"	—	—	1BYL8	10
137	2 1/16"	2.256"	—	—	1BYL9	10
138	2 1/8"	2.318"	—	—	1BYN1	10
139	2 3/16"	2.381"	—	—	1BYN2	10
140	2 1/4"	2.443"	—	—	1BYN3	10
141	2 5/16"	2.506"	—	—	1BYN4	10
142	2 3/8"	2.568"	—	—	1BYN5	10
143	2 7/16"	2.631"	—	—	1BYN6	10
144	2 1/2"	2.693"	—	—	1BYN7	10
145	2 9/16"	2.756"	—	—	1BYN8	10
146	2 5/8"	2.818"	—	—	1BYN9	10
147	2 11/16"	2.881"	—	—	1BYP1	10
148	2 3/4"	2.943"	—	—	1BYP2	10
149	2 13/16"	3.006"	—	—	1BYP3	10
150	2 7/8"	3.068"	—	—	1BYP4	10
151	3"	3.193"	—	—	1BYP5	10
152	3 1/4"	3.443"	—	—	1BYP6	2
153	3 1/2"	3.693"	—	—	1BYP7	2
154	3 3/4"	3.943"	—	—	1BYP8	2
155	4"	4.193"	—	—	1BYP9	2
156	4 1/4"	4.443"	—	—	1BYR1	2
157	4 1/2"	4.693"	—	—	1BYR2	2
158	4 3/4"	4.943"	—	—	1BYR3	2
159	5"	5.193"	—	—	1BYR4	2
160	5 1/4"	5.443"	—	—	1BYR5	2
161	5 1/2"	5.693"	—	—	1BYR6	2
162	5 3/4"	5.943"	—	—	1BYR7	2
163	6"	6.193"	—	—	1BYR8	2
164	6 1/4"	6.443"	—	—	1BYR9	2
171	8"	8.193"	—	—	1BYT7	2
172	8 1/4"	8.443"	—	—	1BYT8	2
173	8 1/2"	8.693"	—	—	1BYT9	2
Width: 1/8" Fractional (0.139 in Actual)						
201	3/16"	0.449"	—	—	1BYU6	25
202	1/4"	0.512"	—	—	1BYU7	25
203	5/16"	0.574"	—	—	1BYU8	25
204	3/8"	0.637"	—	—	1BYU9	25
205	7/16"	0.699"	—	—	1BYV1	25
206	1/2"	0.762"	—	—	1BYV2	25
207	9/16"	0.824"	—	—	1BYV3	25
208	5/8"	0.887"	—	—	1BYV4	25
209	11/16"	0.949"	—	—	1BYV5	25
210	3/4"	1.012"	—	—	1BYV6 *	25
211	13/16"	1.074"	—	—	1BYV7 *	25
212	7/8"	1.137"	—	—	1BYV8 *	25
213	15/16"	1.199"	—	—	1BYV9 *	25
214	1"	1.262"	—	—	1BYX1 *	25
215	1 1/16"	1.324"	—	—	1KAF2	25
216	1 1/8"	1.387"	—	—	1KAF3	25
217	1 3/16"	1.449"	—	—	1KAF4	25
218	1 1/4"	1.512"	—	—	1KAF5	25
219	1 5/16"	1.574"	—	—	1KAF6	25
220	1 3/8"	1.637"	—	—	1KAF7	25
221	1 7/16"	1.699"	—	—	1KAF8	25
222	1 1/2"	1.762"	—	—	1KAF9	25
223	1 5/8"	1.887"	—	—	1KAG1	25
224	1 3/4"	2.012"	—	—	1KAG2	25
225	1 7/8"	2.137"	—	—	1KAG3	10
226	2"	2.262"	—	—	1KAG4	10
227	2 1/8"	2.387"	—	—	1KAG5	10
228	2 1/4"	2.512"	—	—	1KAG6	10
229	2 3/8"	2.637"	—	—	1KAG7	10
230	2 1/2"	2.762"	—	—	1KAG8	10
231	2 5/8"	2.887"	—	—	1KAG9	10
232	2 3/4"	3.012"	—	—	1KAH1	10
233	2 7/8"	3.137"	—	—	1KAH2	10
234	3"	3.262"	—	—	1KAH3	10
235	3 1/8"	3.387"	—	—	1KAH4	10
236	3 1/4"	3.512"	—	—	1KAH5	10
237	3 3/8"	3.637"	—	—	1KAH6	10
238	3 1/2"	3.762"	—	—	1KAH7	5
239	3 5/8"	3.887"	—	—	1KAH8	5
240	3 3/4"	4.012"	—	—	1KAH9	5
241	3 7/8"	4.137"	—	—	1KAJ1	5
242	4"	4.262"	—	—	1KAJ2	5
243	4 1/8"	4.387"	—	—	1KAJ3	5
244	4 1/4"	4.512"	—	—	1KAJ4	5
245	4 3/8"	4.637"	1KLH3	25	1KAJ5	5
246	4 1/2"	4.762"	1KLH4	25	1KAJ6	5
247	4 5/8"	4.887"	1KLH5	25	1KAJ7	5
248	4 3/4"	5.012"	1KLH6	25	1KAJ8	5
249	4 7/8"	5.137"	1KLH7	10	1KAJ9	5
250	5"	5.262"	1KLH8	10	1KAK1	5
251	5 1/8"	5.387"	1KLH9	10	1KAK2	5
252	5 1/4"	5.512"	1KLJ1	10	1KAK3	5
253	5 3/8"	5.637"	1KLJ2	10	1KAK4	2
254	5 1/2"	5.762"	1KLJ3	10	1KAK5	2
255	5 5/8"	5.887"	1KLJ4	10	1KAK6	2
256	5 3/4"	6.012"	1KLJ5	10	1KAK7	2
257	5 7/8"	6.137"	1KLJ6	10	1KAK8	2
258	6"	6.262"	1KLJ7	10	1KAK9	2
259	6 1/4"	6.512"	1KLJ8	10	1KAL1	2
260	6 1/2"	6.762"	1KLJ9	10	1KAL2	2
261	6 3/4"	7.012"	1KLK1	10	1KAL3	2
262	7"	7.262"	1KLK2	10	1KAL4	2
263	7 1/4"	7.512"	1KLK3	10	1KAL5	2
264	7 1/2"	7.762"	1KLK4	10	1KAL6	2
265	7 3/4"	8.012"	1KLK5	5	1KAL7	2
266	8"	8.262"	1KLK6	5	1KAL8	2
267	8 1/4"	8.512"	1KLK7	5	1KAL9	2
268	8 1/2"	8.762"	1KLK8	5	1KAN1	2
269	8 3/4"	9.012"	1KLK9	5	1KAN2	2
270	9"	9.262"	1KLL1	5	1KAN3	2
271	9 1/4"	9.512"	1KLL2	5	—	—
272	9 1/2"	9.762"	1KLL3	5	1KAN5	2
273	9 3/4"	10.012"	1KLL4	5	—	—
274	10"	10.262"	1KLL5	5	1KAN7	2
275	10 1/2"	10.762"	1KLL6	5	—	—
276	11"	11.262"	1KLL7	5	1KAN9	2
277	11 1/2"	11.762"	1KLL8	5	1KAP1	2
278	12"	12.262"	1KLL9	5	1KAP2	2
279	13"	13.262"	1KLN1	5	1KAP3	2
280	14"	14.262"	1KLN2	5	1KAP4	2
Width: 3/16" Fractional (0.21 in Actual)						
309	7/16"	0.832"	1KLN7	50	—	—
310	1/2"	0.895"	1KLN8	50	—	—
311	9/16"	0.957"	1KLN9	50	—	—
312	5/8"	1.020"	1KLP1	50	—	—
313	11/16"	1.082"	1KLP2	50	—	—
314	3/4"	1.145"	1KLP3	50	1KAR5	10
315	13/16"	1.207"	1KLP4	50	1KAR6	10
316	7/8"	1.270"	1KLP5	50	1KAR7	10
317	15/16"	1.332"	1KLP6	50	1KAR8	10
318	1"	1.395"	1KLP7	50	1KAR9	10
319	1 1/16"	1.457"	1KLP8	50	1KAT1	10
320	1 1/8"	1.520"	1KLP9	50	1KAT2	10
321	1 3/16"	1.582"	1KLR1	50	1KAT3	10
322	1 1/4"	1.645"	1KLR2	50	1KAT4	10
323	1 5/16"	1.707"	1KLR3	50	—	—
324	1 3/8"	1.770"	1KLR4	50	1KAT6	10
325	1 1/2"	1.895"	1KLR5	50	1KAT7	10
326	1 5/8"	2.020"	1KLR6	50	1KAT8	10
327	1 3/4"	2.145"	1KLR7	50	1KAT9	10
328	1 7/8"	2.270"	1KLR8	50	1KAU1	10
329	2"	2.395"	1KLR9	50	1KAU2	10
330	2 1/8"	2.520"	1KLT1	50	1KAU3	10
331	2 1/4"	2.645"	1KLT2	50	1KAU4	10
332	2 3/8"	2.770"	1KLT3	50	1KAU5	10
333	2 1/2"	2.895"	1KLT4	50	1KAU6	5
334	2 5/8"	3.020"	1KLT5	50	1KAU7	5
335	2 3/4"	3.145"	1KLT6	50	1KAU8	5
336	2 7/8"	3.270"	1KLT7	50	1KAU9	5
337	3"	3.395"	1KLT8	50	1KAV1	5
338	3 1/8"	3.520"	1KLT9	50	1KAV2	5
339	3 1/4"	3.645"	1KLU1	50	1KAV3	5
340	3 3/8"	3.770"	1KLU2	25	1KAV4	5
341	3 1/2"	3.895"	1KLU3	25	1KAV5	5
342	3 5/8"	4.020"	1KLU4	25	1KAV6	2
343	3 3/4"	4.145"	1KLU5	25	1KAV7	2
344	3 7/8"	4.270"	1KLU6	25	1KAV8	2
345	4"	4.395"	1KLU7	25	1KAV9	2
346	4 1/8"	4.520"	1KLU8	25	1KAW1	2
347	4 1/4"	4.645"	1KLU9	5	1KAW2	2
348	4 3/8"	4.770"	1KLV1	5	1KAW3	2
349	4 1/2"	4.895"	1KLV2	5	1KAW4	2
350	4 5/8"	5.020"	1KLV3	5	1KAW5	2
351	4 3/4"	5.145"	1KLV4	5	1KAW6	2
352	4 7/8"	5.270"	1KLV5	5	1KAW7	2
353	5"	5.395"	1KLV6	5	1KAW8	2
354	5 1/8"	5.520"	1KLV7	5	1KAW9	2
355	5 1/4"	5.645"	1KLV8	5	1KAX1	2
356	5 3/8"	5.770"	1KLV9	5	—	—
357	5 1/2"	5.895"	1KLW1	5	1KAX3	2
358	5 5/8"	6.020"	1KLW2	5	1KAX4	2
359	5 3/4"	6.145"	1KLW3	5	1KAX5	2
360	5 7/8"	6.270"	1KLW4	5	1KAX6	2
361	6"	6.395"	1KLW5	5	1KAX7	2
362	6 1/4"	6.645"	1KLW6	5	1KAX8	2
363	6 1/2"	6.895"	1KLW7	5	1KAX9	2
364	6 3/4"	7.145"	1KLW8	5	—	—
365	7"	7.395"	1KLW9	5	1KAZ2	2
366	7 1/4"	7.645"	1KLX1	5	1KAZ3	2
367	7 1/2"	7.895"	1KLX2	5	1KAZ4	2

** Also available in brown color; see page 2176.*

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CONTINUED

Buna N and Viton O-Rings

Dash No.	Inside Dia.	Outside Dia.	BUNA N - BLACK 70 DUROMETER SHORE A Item No.	Pkg. Qty.	VITON - BLACK 75 DUROMETER SHORE A Item No.	Pkg. Qty.
368	7¾"	8.145"	**1KLX3**	5	**1KAZ5**	2
369	8"	8.395"	**1KLX4**	5	**1KAZ6**	2
370	8¼"	8.645"	**1KLX5**	5	**1KAZ7**	2
371	8½"	8.895"	**1KLX6**	5	**1KAZ8**	2
372	8¾"	9.145"	**1KLX7**	5	**1KAZ9**	2
373	9"	9.395"	**1KLX8**	5	**1KBA1**	2
374	9¼"	9.645"	**1KLX9**	5	—	—
376	9¾"	10.145"	—	—	**1KBA4**	1
377	10"	10.395"	**1KLY3**	5	**1KBA5**	1
378	10½"	10.895"	**1KLY4**	5	**1KBA6**	1
379	11"	11.395"	**1KLY5**	5	—	—
380	11½"	11.895"	**1KLY6**	5	—	—
381	12"	12.395"	**1KLY7**	5	—	—
382	13"	13.395"	**1KLY8**	5	**1KBB1**	1
383	14"	14.395"	**1KLY9**	5	**1KBB2**	1
384	15"	15.395"	—	—	**1KBB3**	1
385	16"	16.375"	**1KLZ2**	5	**1WLK1**	1
386	17"	17.375"	**1KLZ3**	5	**1WLK2**	1
388	19"	19.375"	**1KLZ5**	2	**1WLK4**	1
391	22"	22.375"	—	—	**1WLK7**	1
393	24"	24.360"	**1KML1**	1	—	—
395	26"	26.360"	**1KML3**	1	**1WLL2**	1

Dash No.	Inside Dia.	Outside Dia.	BUNA N - BLACK 70 DUROMETER SHORE A Item No.	Pkg. Qty.	VITON - BLACK 75 DUROMETER SHORE A Item No.	Pkg. Qty.
Width: ¼" Fractional (0.275 in Actual)						
425	4½"	5.025"	**1KML4**	5	**1WLL3**	2
426	4⅝"	5.150"	**1KML5**	5	**1WLL4**	2
427	4¾"	5.275"	**1KML6**	5	**1WLL5**	2
428	4⅞"	5.400"	**1KML7**	5	—	—
429	5"	5.525"	**1KML8**	5	**1WLL7**	2
430	5⅛"	5.650"	**1KML9**	5	**1WLL8**	2
431	5¼"	5.775"	**1KNL1**	5	**1WLL9**	2
432	5⅜"	5.900"	**1KNL2**	5	**1WLN1**	2
433	5½"	6.025"	**1KNL3**	5	**1WLN2**	2
434	5⅝"	6.150"	**1KNL4**	5	—	—
435	5¾"	6.275"	**1KNL5**	5	—	—
436	5⅞"	6.400"	**1KNL6**	5	—	—
437	6"	6.525"	**1KNL7**	5	**1WLN9**	2
438	6¼"	6.775"	**1KNL8**	2	**1WLP2**	2
439	6½"	7.025"	**1KNL9**	2	**1WLP4**	2
440	6¾"	7.275"	**1KPL1**	2	**1WLP6**	2
441	7"	7.525"	**1KPL2**	2	—	—
442	7¼"	7.775"	**1KPL3**	2	**1WLR1**	2
443	7½"	8.025"	**1KPL4**	2	**1WLR3**	2
444	7¾"	8.275"	**1KPL5**	2	**1WLR5**	2
445	8"	8.525"	**1KPL6**	2	**1WLR7**	2

Dash No.	Inside Dia.	Outside Dia.	BUNA N - BLACK 70 DUROMETER SHORE A Item No.	Pkg. Qty.	VITON - BLACK 75 DUROMETER SHORE A Item No.	Pkg. Qty.
446	8½"	9.025"	**1KPL7**	2	**1WLR9**	2
447	9"	9.525"	**1KPL8**	2	**1WLT2**	2
448	9½"	10.025"	**1KPL9**	2	**1WLT4**	1
449	10"	10.525"	**1KRL1**	2	**1WLT6**	1
450	10½"	11.025"	**1KRL2**	2	**1WLT8**	1
451	11"	11.525"	—	—	**1WLU1**	1
452	11½"	12.025"	**1KRL4**	2	**1WLU3**	1
453	12"	12.525"	**1KRL5**	2	**1WLU5**	1
454	12½"	13.025"	**1KRL6**	2	**1WLU7**	1
455	13"	13.525"	**1KRL7**	2	—	—
456	13½"	14.025"	**1KRL8**	2	**1WLV2**	1
457	14"	14.525"	**1KRL9**	2	**1WLV4**	1
458	14½"	15.025"	**1KTL1**	2	**1WLV6**	1
459	15"	15.525"	**1KTL2**	2	**1WLV8**	1
461	16"	16.505"	**1KTL4**	2	**1WLW3**	1
462	16½"	17.005"	**1KTL5**	2	—	—
463	17"	17.505"	**1KTL6**	2	—	—
464	17½"	18.005"	**1KTL7**	2	—	—
467	19"	19.505"	**1KUA1**	2	**1WLX6**	1
468	19½"	20.025"	—	—	**1WLX8**	1
471	22"	22.505"	—	—	**1WLY5**	1
473	24"	24.490"	—	—	**1WLY9**	1
474	25"	25.490"	—	—	**1WLZ2**	1
475	26"	26.490"	—	—	**1WLZ4**	1

Actual Inside Dia.	Outside Dia.	BUNA N-70 SHORE A Item No.	Pkg. Qty.	VITON-75 SHORE A Item No.	Pkg. Qty.
2 mm	4.0mm	**1RHZ2**	100	**1RHL9**	25
2.2 mm	5.4mm	**1RJA8**	100	**1RHP6**	25
3 mm	6.0mm	**1RHZ7**	100	—	—
3 mm	7.0mm	**1RJC5**	100	—	—
3.8 mm	7.6mm	**1RJB7**	100	—	—
4 mm	6.0mm	**1RHZ3**	100	**1RHN1**	25
4 mm	7.0mm	**1RHZ8**	100	**1RHN6**	25
4 mm	8.0mm	**1RJC6**	100	**1RHR5**	25
4.8 mm	8.6mm	**1RJB8**	100	—	—
5 mm	7.0mm	**1RHZ4**	100	**1RHN2**	25
5 mm	8.0mm	**1RHZ9**	100	**1RHN7**	25
5 mm	9.0mm	**1RJC7**	100	**1RHR6**	25
5.8 mm	9.6mm	**1RJB9**	100	—	—
6 mm	10.0mm	**1RJC8**	100	**1RHR7**	25
6 mm	9.0mm	**1RJA1**	100	—	—
6.8 mm	10.6mm	**1RJC1**	100	—	—
7 mm	10.0mm	**1RJA2**	100	**1RHN9**	25
7 mm	11.0mm	**1RJC9**	100	**1RHR8**	25
7.1 mm	10.3mm	**1RJB2**	100	**1RHP9**	25
7.6 mm	12.4mm	**1RJE8**	100	**1RHU7**	25
7.8 mm	11.6mm	**1RJC2**	100	—	—
8 mm	12.0mm	**1RJD1**	100	**1RHR9**	25
8.6 mm	13.4mm	—	—	**1RHU9**	25
8.8 mm	12.6mm	**1RJC3**	100	—	—
9 mm	13.0mm	**1RJD2**	100	**1RHT1**	25
9 mm	14.0mm	**1RJG5**	100	**1RHV1**	10
9 mm	15.0mm	—	—	**1RHW7**	10
9 mm	12.0mm	**1RJA3**	100	—	—
9.1 mm	12.3mm	**1RJB3**	100	**1RHR1**	25
9.8 mm	13.6mm	**1RJC4**	100	—	—
9.8 mm	14.6mm	**1RJF2**	100	—	—
10 mm	16.0mm	**1CTC8**	100	—	—
10 mm	12.0mm	**1RHZ5**	100	**1RHN3**	25
10 mm	13.0mm	**1RJA4**	100	**1RHP2**	25
10 mm	14.0mm	**1RJD3**	100	**1RHT2**	25
10 mm	15.0mm	**1RJG6**	100	**1RHV2**	10
10.1 mm	13.3mm	—	—	**1RHR2**	25

Actual Inside Dia.	Outside Dia.	BUNA N-70 SHORE A Item No.	Pkg. Qty.	VITON-75 SHORE A Item No.	Pkg. Qty.
10.8 mm	15.6mm	**1RJF3**	100	—	—
11 mm	16.0mm	**1RJG7**	100	**1RHV3**	10
11 mm	17.0mm	**1RJJ2**	100	**1RHW9**	10
11 mm	15.8mm	**1RJF4**	100	—	—
11.8 mm	16.6mm	**1RJF5**	100	—	—
12 mm	14.0mm	**1RHZ6**	100	**1RHN4**	25
12 mm	15.0mm	**1RJA5**	100	**1RHP3**	25
12 mm	16.0mm	**1RJD4**	100	**1RHT3**	25
12 mm	17.0mm	**1RJG8**	100	**1RHV4**	10
12.3 mm	7.1mm	**1CTC9**	100	—	—
12.8 mm	17.6mm	**1RJF6**	100	—	—
13 mm	16.0mm	**1RJA6**	100	**1RHP4**	25
13 mm	17.0mm	**1RJD5**	100	**1RHT4**	25
13 mm	18.0mm	**1RJG9**	100	**1RHV5**	10
13.1 mm	16.3mm	—	—	**1RHR3**	25
13.8 mm	18.6mm	**1RJF7**	100	—	—
14 mm	18.0mm	**1RJD6**	100	**1RHT5**	25
14 mm	19.0mm	**1RJH1**	100	**1RHV6**	10
14.8 mm	19.6mm	**1RJF8**	100	—	—
15 mm	19.0mm	**1RJD7**	100	**1RHT6**	25
15 mm	20.0mm	**1RJH2**	100	**1RHV7**	10
15.8 mm	20.6mm	**1RJF9**	100	—	—
16 mm	19.0mm	**1RJA7**	100	**1RHP5**	25
16 mm	20.0mm	**1RJD8**	100	**1RHT7**	25
16 mm	21.0mm	**1RJH3**	100	**1RHV8**	10
17 mm	22.0mm	**1RJH4**	100	**1RHV9**	10
17.8 mm	22.6mm	**1RJG1**	100	—	—
18 mm	23.0mm	**1RJH5**	100	**1RHW1**	10
18 mm	24.0mm	**1RJJ3**	100	**1RHX1**	10
19 mm	23.0mm	**1RJD9**	100	**1RHT8**	25
19 mm	25.0mm	**1RJJ4**	100	**1RHX2**	10
19 mm	24.0mm	**1RJH6**	100	—	—
19.8 mm	24.6mm	**1RJG2**	50	—	—
20 mm	24.0mm	**1RJE1**	100	**1RHT9**	25
20 mm	25.0mm	**1RJH7**	100	**1RHW3**	10
20 mm	26.0mm	**1RJJ5**	50	**1RHX3**	10
20.8 mm	25.6mm	**1RJG3**	50	—	—

Actual Inside Dia.	Outside Dia.	BUNA N-70 SHORE A Item No.	Pkg. Qty.	VITON-75 SHORE A Item No.	Pkg. Qty.
21.8 mm	26.6mm	**1RJG4**	50	—	—
22 mm	26.0mm	**1RJE2**	100	**1RHU1**	20
22 mm	27.0mm	**1RJH8**	50	**1RHW4**	10
22 mm	28.0mm	**1RJJ6**	50	—	—
22.1 mm	29.1mm	**1RJL7**	25	—	—
23 mm	27.0mm	**1RJE3**	50	—	—
23.5 mm	31.5mm	**1RJP1**	25	—	—
23.7 mm	30.7mm	**1RJL8**	25	—	—
24 mm	28.0mm	**1RJE4**	50	**1RHU3**	20
24 mm	30.0mm	**1RJJ7**	50	**1RHX5**	10
25 mm	31.0mm	**1RJJ8**	50	**1RHX6**	10
25.7 mm	32.7mm	**1RJN2**	25	—	—
27 mm	32.0mm	**1RJH9**	50	**1RHW5**	10
27 mm	33.0mm	**1RJJ9**	50	**1RHX7**	10
27.7 mm	34.7mm	**1RJN3**	25	—	—
28 mm	34.0mm	**1RJK1**	50	**1RHX8**	10
28.7 mm	35.7mm	**1RJN4**	25	—	—
29.2 mm	36.2mm	**1RJN5**	25	—	—
29.7 mm	36.7mm	**1RJN6**	25	—	—
30 mm	36.0mm	**1RJK2**	50	**1RHX9**	10
30.7 mm	37.7mm	**1RJN7**	25	—	—
31.2 mm	38.2mm	**1RJN8**	25	—	—
32 mm	37.0mm	**1RJJ1**	50	**1RHW6**	10
32 mm	38.0mm	**1RJK3**	50	**1RHY1**	10
33 mm	39.0mm	**1RJK4**	25	**1RHY2**	10
35 mm	41.0mm	**1RJK5**	25	**1RHY3**	10
36 mm	42.0mm	**1RJK6**	25	**1RHY4**	10
38 mm	44.0mm	**1RJK7**	25	**1RHY5**	10
38 mm	46.0mm	**1RJP2**	25	—	—
40 mm	46.0mm	**1RJK8**	25	**1RHY6**	10
41 mm	49.0mm	**1RJP3**	25	—	—
44 mm	52.0mm	**1RJP4**	25	—	—
45 mm	51.0mm	**1RJK9**	25	**1RHY7**	10
50 mm	56.0mm	**1RJL1**	25	**1RHY8**	10
56 mm	62.0mm	**1RJL2**	25	**1RHY9**	8
59 mm	65.0mm	**1RJL3**	25	**1RHZ1**	8

Round Cross-Section

Brown Viton O-Ring

Brown Viton O-Rings

- Round cross-section
- Durometer: 75 Shore A

Brown color allows easy identification. Meet ASTM D2000 and SAE J200 standards.

Dash No.	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Width: 1/16" Fractional (0.07 in Actual)				
006	⅛"	0.254"	**1CRZ7**	25
007	5/32"	0.285"	**1CRZ8**	100
008	3/16"	0.316"	**1CRZ9**	100
009	7/32"	0.348"	**1CTB1**	100
010	¼"	0.379"	**1CTB2**	100
011	5/16"	0.441"	**1CTB3**	100
012	⅜"	0.504"	**1CTB4**	100

Dash No.	Inside Dia.	Outside Dia.	Item No.	Pkg. Qty.
Width: 3/32" Fractional (0.103 in Actual)				
110	⅜"	0.568"	**1CTB5**	25
111	7/16"	0.630"	**1CTB6**	50
112	½"	0.693"	**1CTB7**	50
113	9/16"	0.755"	**1CTB8**	50
114	⅝"	0.818"	**1CTB9**	50
115	11/16"	0.880"	**1CTC1**	50
116	¾"	0.943"	**1CTC2**	50
Width: ⅛" Fractional (0.139 in Actual)				
210	¾"	1.012"	**1CTC3**	25
211	13/16"	1.074"	**1CTC4**	25
212	⅞"	1.137"	**1CTC5**	25
213	15/16"	1.199"	**1CTC6**	25
214	1"	1.262"	**1CTC7**	25

Key Stock Information

KEY STOCK

Step (Offset)

Precision milled with steps notched in at regular intervals for repairing sprockets, gears, and pulleys.

KEYS

A key is a small metal block or wedge inserted between a shaft and the hub of a pulley, gear, sprocket, or other rotating power device. The key provides driving torque and prevents movement. One part of the key fits into a precut slot in the shaft called a key seat. The remainder slides into a groove in the hub called a keyway.

Machine

Elongated keys feature rounded ends, square ends, or tapered gib heads.

Woodruff

Flat, semicircular keys that rock into place and adjust to an angular spine without coming unseated.

Key Stock Assortments

ITW Bee Leitzke

Packaged in a sturdy standable chipboard container.

No. of Pieces	Material	Includes	Item No.
Approved Vendor			
Key Stock Assortment			
31	Steel Zinc	12 in Lengths (5) Each: 1/8x1/8 in, 3/16x3/16 in, 1/4x1/4 in, 5/16x5/16 in, 3/8x3/8 in, (3) Each: 7/16x7/16 in, 1/2x1/2 in, Standable Chipboard Container	**5WB10**
	18-8 Stainless Steel Plain	12 in Lengths (5) Each: 1/8x1/8 in, 3/16x3/16 in, 1/4x1/4 in, 5/16x5/16 in, 3/8x3/8 in, (3) Each: 7/16x7/16 in, 1/2x1/2 in, Standable Chipboard Container	**5WA98**
Key Stock Kit			
7	Steel Zinc	12 in Lengths (1) Each: 1/8x1/8 in, 3/16x3/16 in, 3/16x1/4 in, 1/4x5/16 in, 5/16x3/8 in, 3/8x7/16 in, 7/16x1/2 in, Standable Chipboard Container	**5WA96**
	18-8 Stainless Steel Plain	12 in Lengths (1) Each: 1/8x1/8 in, 3/16x3/16 in, 1/4x1/4 in, 5/16x5/16 in, 3/8x3/8 in, 7/16x7/16 in, 1/2x1/2 in, Standable Chipboard Container	**5WA94**
Machine Key Kit			
25	Steel Plain	3 ⅜ in Lengths (3) Each: 6mmx6mm, 8mmx8mm, (2) Each: 4mmx4mm, 5mmx5mm, 7mmx7mm, 7mmx8mm, 8mmx10mm, 8mmx12mm, 10mmx10mm, 12mmx12mm, (1) Each: 10mmx16mm, 11mmx18mm, 12mmx20mm, Plastic Compartmented Box with Lid Chart	**5WE27**
58	Steel Zinc	(5) Each: 3/16x3/16x3/4 in, x1 in, x1 ¼ in, 1/4x1/4x ¾ in, x1 ¼ in, x1 ½ in, 5/16x5/16x1 ¼ in, x1 ½ in, 3/8x3/8x1 ¼ in, x1 ½ in, (3) Each: 1/8x1/8x3/4 in, x1 in, (2) Each: 1/2x1/2x1 ½ in, Plastic Compartmented Box with Lid Chart	**5WE25**
Step Key Stock Assortment			
7	Steel Zinc	12 in Lengths (1) Each: 3/16x1/8 in, 3/16x1/4 in, 1/4x5/16 in, 1/4x3/8 in, 3/8x5/16 in, 3/8x1/2 in, 1/2x5/8 in, Standable Chipboard Container	**5WA92**
Itw Bee Leitzke			
Machine Key Kit			
70	1018 Steel Plain	1 ½ in Lengths (20) Each: ⅛ in Square, (12) Each: 3/16 in Square, 3/16x1/4 in Rectangular, (10) Each: ¼ in Square, (8) Each: 5/16 in Square, ⅜ in Square, Plastic Compartmented Box with Lid Chart	**5A201**
Machinery and Woodruff Key Asst.			
401	Low Carbon Steel Plain	Woodruff Keys (45) Each: #3 (1/8x1/2 in), #5 (1/8x5/8 in), (30) Each: #9 (3/16x3/4 in), (22) Each: #6 (5/32x5/8 in), #7 (1/8x3/4 in), (20) Each: # 15 (1/4x1 in), (15) Each: #10 (5/32x7/8 in), #A (1/4x7/8 in), (12) Each: #13 (3/16x1 in), (9) Each: #C (5/16x1 ⅛ in), #21 (1/4x1 ¼ in), (4) Each: #G (3/8x1 ½ in), Machinery Keys 1 ½ in Lengths (50) Each: ⅛ in Square, (30) Each: 3/16 in Square, (25) Each: 3/16x1/4 in Rectangular, (18) Each: ¼ in Square, (15) Each: 5/16 in Square, ⅜ in Square, Plastic Compartmented Box with Lid Chart	**5A202**
Woodruff Key Assortment			
72	Low Carbon Steel Plain	(18) Each: #3 (1/8x1/2 in), (12) Each: #5 (1/8x5/8 in), #6 (5/32x5/8 in), #9 (3/16x3/4 in), (10) Each: #A (1/4x7/8 in), (8) Each: #15 (1/4x1 in), Compartmented Plastic Box with Lid Chart	**5A200**
250	Low Carbon Steel Plain	(40) Each: #6 (5/32x5/8 in), (30) Each: #5 (1/8x5/8 in), (20) Each: #212 (3/32x3/8 in), #2 (3/32x1/2 in), #3 (1/8x1/2 in), #7 (1/8x3/4 in), #9 (3/16x3/4 in), (10) Each: #211 (1/16x3/8 in), #213 (1/8x3/8 in), #1 (1/16x1/2 in), #4 (3/32x5/8 in), #8 (5/32x5/8 in), (5) Each: #10 (5/32x7/8 in), #11 (3/16x7/8 in), #12 (7/32x7/8 in), #61 (3/16x5/8 in), #91 (1/4x3/4 in), #A (1/4x7/8 in), Plastic Compartmented Box with Lid Chart	**4F416**

5WA92

5A200

Machine Keys

Made of carbon steel. For use on power transmission shafts to hold pulleys and gears tightly on the shaft. Oversized needs to be machined for proper fit.

Square	Length	Item No.	Pkg. Qty.
Oversized			
⅛ in	½ in	**5WE93**	10
	¾ in	**5WE95**	10
	1 in	**5WE97**	10
3/16 in	½ in	**5WE99**	10
	¾ in	**5WU11**	10
	1 in	**5WU13**	10
	1 ¼ in	**5WU15**	10
	1 ½ in	**5WU17**	10
	1 ¾ in	**5WU19**	10
	2 in	**5WU21**	10
¼ in	¾ in	**5WU23**	10
	1 in	**5WU25**	10
	1 ¼ in	**5WU27**	10
	1 ½ in	**5WU29**	10
	1 ¾ in	**5WU31**	10
	2 in	**5WU33**	10
	2 ¼ in	**5WU35**	10
	2 ½ in	**5WU37**	10
⅜ in	1 in	**5WU39**	10
	1 ¼ in	**5WU41**	10
	1 ¾ in	**5WU43**	10
	2 in	**5WU45**	10
	2 ¼ in	**5WU47**	10
	2 ¾ in	**5WU49**	10
½ in	1 in	**5WU51**	10
	1 ⅝ in	**5WU53**	10
	2 in	**5WU55**	10

Square	Length	Item No.	Pkg. Qty.
Undersized			
⅛ in	¾ in	**5WE31**	10
	1 in	**5WE33**	10
	1 ¼ in	**5WE35**	10
5/32 in	8 mm	**5WU83**	25
	10 mm	**5WU85**	25
	12 mm	**5WU87**	25
	14 mm	**5WU89**	25
	16 mm	**5WU91**	25
3/16 in	½ in	**5WE37**	10
	¾ in	**5WE39**	10
	1 in	**5WE41**	10
	1 ¼ in	**5WE43**	10
	1 ½ in	**5WE45**	10
	1 ¾ in	**5WE47**	10
	2 in	**5WE49**	10
	2 ½ in	**5WE51**	10
13/64 in	14 mm	**5WU93**	25
	16 mm	**5WU95**	25
	18 mm	**5WU97**	25
	20 mm	**5WU99**	25
	25 mm	**5WY11**	25
15/64 in	20 mm	**5WY13**	25
	25 mm	**5WY15**	25
	30 mm	**5WY17**	25
	40 mm	**5WY21**	25
¼ in	¾ in	**5WE53**	10
	1 in	**5WE55**	10
	1 ¼ in	**5WE57**	10
⅜ in	2 in	**5WE83**	10
	2 ½ in	**5WE85**	10
½ in	1 ½ in	**5WE87**	10
	2 in	**5WE89**	10
	2 ½ in	**5WE91**	10

Woodruff Keys

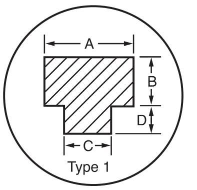
- Tensile strength: 72,000 psi
- Length tolerance: +0.000 to -0.010

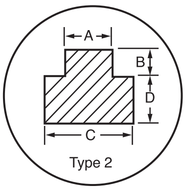
Made of medium carbon steel. Remountable machinery keys can withstand great strain; designed to be installed deep into shafts and firmly embedded.

Key Size	SAE No.	Item No.	Pkg. Qty.
1/16 x ½ in	1	**1AME2**	100
3/32 x ½ in	2	**1AME3**	100
3/32 x ⅝ in	4	**1AME4**	100
⅛ x ½ in	3	**1AME5**	100
⅛ x ⅝ in	5	**1AME6**	100
⅛ x ¾ in	7	**1AME7**	100
5/32 x ⅝ in	6	**1AME8**	100
5/32 x ¾ in	8	**1AME9**	100
5/32 x ⅞ in	10	**1AMG1**	50
3/16 x ⅝ in	61	**1AMG2**	100
3/16 x ¾ in	9	**1AMG3**	100
3/16 x ⅞ in	11	**1AMG4**	50
3/16 x 1 in	13	**1AMG5**	25
3/16 x 1⅛ in	16	**1AMG6**	25
3/16 x 1¼ in	19	**1AMG7**	25
7/32 x ⅞ in	12	**1AMG8**	50
7/32 x 1 in	14	**1AMG9**	25
7/32 x 1⅛ in	17	**1AMJ1**	25
7/32 x 1¼ in	20	**1AMJ2**	25
¼ x ¾ in	91	**1AMJ3**	50
¼ x ⅞ in	A	**1AMJ4**	50
¼ x 1 in	141	**1AMJ5**	25
¼ x 1 in	15	**1AMJ6**	25
¼ x 1⅛ in	18	**1AMJ7**	25
¼ x 1¼ in	21	**1AMJ8**	25
¼ x 1⅜ in	22	**1AMJ9**	10
¼ x 1½ in	24	**1AMU1**	10
5/16 x 1 in	B	**1AMU2**	25
5/16 x 1⅛ in	C	**1AMU3**	25
5/16 x 1¼ in	D	**1AMU4**	10
5/16 x 1½ in	25	**1AMU6**	10
5/16 x 1⅜ in	23	**1AMU5**	10
⅜ x 1 in	152	**1AMU7**	25
⅜ x 1½ in	G	**1AMV1**	10
⅜ x 1¼ in	E	**1AMU8**	10
⅜ x 1⅜ in	F	**1AMU9**	10

Key Stock

Size	L	Item No.
Undersized		
18-8 Stainless Steel, Plain Finish		
1/8 x 1/8"	12 in	5UE57
	36 in	5WY23
	72 in	4ETL7
3/16 x 3/16"	12 in	5UE59
	36 in	5TU46
	72 in	4ETL8
1/4 x 1/4"	12 in	5UE61
	36 in	5TU49
	72 in	4ETL9
5/16 x 5/16"	12 in	5UE63
	36 in	5TU52
	72 in	4ETN1
3/8 x 3/8"	12 in	5UE65
	36 in	5TU55
	72 in	4ETN2
7/16 x 7/16"	12 in	5UE67
	36 in	5TU58
1/2 x 1/2"	12 in	5UE69
	36 in	5TU61
	72 in	4ETN4
9/16 x 9/16"	12 in	5UE71
5/8 x 5/8"	12 in	5UE73
	36 in	5TU64
3/4 x 3/4"	12 in	5UE75
	36 in	5TU67
7/8 x 7/8"	12 in	5UE77
	36 in	5TU70
1 x 1"	12 in	5UE79
	36 in	5TU73
1 1/4 x 1 1/4"	12 in	5UE81
1 1/2 x 1 1/2"	12 in	5UE83
1 3/4 x 1 3/4"	12 in	5UE85
2 x 2"	12 in	5UE87
5 x 5mm	1 m	5UB40
316 Stainless Steel, Plain Finish		
3/16 x 3/16"	12 in	5UE17
	36 in	5VV40
1/4 x 1/4"	12 in	5UE19
	36 in	5VV42
5/16 x 5/16"	12 in	5UE21
	36 in	5VV44
3/8 x 3/8"	12 in	5UE23
	36 in	5VV46
1/2 x 1/2"	12 in	5UE25
	36 in	5VV48
5/8 x 5/8"	12 in	5UE27
	36 in	5VV50
3/4 x 3/4"	12 in	5UE29
	36 in	5VV52
1 x 1"	12 in	5UE31
2 x 2mm	12 in	5VV96
3 x 3mm	12 in	5VV98
4 x 4mm	12 in	5VY10
5 x 5mm	12 in	5VY12
6 x 6mm	12 in	5VY14
7 x 7mm	12 in	5VY16
8 x 8mm	12 in	5VY18
10 x 10mm	12 in	5VY20
12 x 12mm	12 in	5VY21
14 x 14mm	12 in	5VY23
16 x 16mm	12 in	5VY25
416 Stainless Steel, Plain Finish		
3/16 x 3/16"	12 in	5UB93
1/4 x 1/4"	12 in	5UB95
5/16 x 5/16"	12 in	5UB97
3/8 x 3/8"	12 in	5UB99
1/2 x 1/2"	12 in	5UE11
5/8 x 5/8"	12 in	5UE13
3/4 x 3/4"	12 in	5UE15
A4 Stainless Steel, Plain Finish		
3 x 3mm	1 m	5UB72
4 x 4mm	1 m	5UB38
	12 in	5UA96
5 x 5mm	1 m	5UB76
	12 in	5UA98
6 x 6mm	1 m	5UB42
	12 in	5UB10
7 x 8mm	1 m	5UB46
7 x 7mm	1 m	5UB80
	12 in	5UB12
7 x 8mm	12 in	5UB14
8 x 8mm	12 in	5UB16
8 x 10mm	12 in	5UB18
8 x 12mm	12 in	5UB20
9 x 14mm	12 in	5UB22
10 x 10mm	12 in	5UB24
12 x 12mm	12 in	5UB26
14 x 14mm	12 in	5UB28
16 x 16mm	12 in	5UB30
18 x 18mm	12 in	5UB32
20 x 20mm	12 in	5UB34
Low Carbon Steel, Plain Finish		
1/8 x 1/8"	36 in	5TU76
3/16 x 3/16"	36 in	5TU79
	72 in	4ETG6
1/4 x 1/4"	36 in	5TU82
	72 in	4ETG7
5/16 x 5/16"	36 in	5TU85
	72 in	4ETG8
3/8 x 3/8"	36 in	5TU88
	72 in	4ETG9
7/16 x 7/16"	36 in	5TU91
	72 in	4ETH1
1/2 x 1/2"	36 in	5TU94
	72 in	4ETH2
9/16 x 9/16"	36 in	5TU97
5/8 x 5/8"	36 in	5TY10
	72 in	4ETH4
3/4 x 3/4"	36 in	5TY13
	72 in	4ETH5
7/8 x 7/8"	36 in	5TY16
1 x 1"	36 in	5TY19
	72 in	4ETH7
1 1/4 x 1 1/4"	36 in	5TY22
	72 in	4ETH8
1 1/2 x 1 1/2"	36 in	5TY25
	72 in	4ETH9
18 x 32mm	1 m	5UA10
20 x 20mm	1 m	5UA12
Low Carbon Steel, Zinc Finish		
1/8 x 1/8"	12 in	5VU27
1/8 x 3/16"	12 in	5VU30
1/8 x 1/4"	12 in	5VU33
1/8 x 1/8"	36 in	4ETJ1
3/16 x 3/16"	12 in	5VU36
3/16 x 1/4"	12 in	5VU39
3/16 x 5/16"	12 in	5VU42
3/16 x 3/8"	12 in	5VU45
3/16 x 3/16"	36 in	4ETJ3
1/4 x 1/4"	12 in	5VU48
1/4 x 5/16"	12 in	5VU51
1/4 x 3/8"	12 in	5VU53
1/4 x 1/2"	12 in	5VU59
1/4 x 1/4"	36 in	4ETJ5
	72 in	4ETJ6
5/16 x 5/16"	12 in	5VU62
5/16 x 3/8"	12 in	5VU65
5/16 x 1/2"	12 in	5VU68
5/16 x 5/8"	12 in	5VU71
5/16 x 5/16"	36 in	4ETJ7
3/8 x 3/8"	12 in	5VU74
3/8 x 7/16"	12 in	5VU77
3/8 x 1/2"	12 in	5VU80
3/8 x 5/8"	12 in	5VU84
3/8 x 3/8"	36 in	4ETJ9
	72 in	4ETK1
7/16 x 7/16"	12 in	5VU86
7/16 x 1/2"	12 in	5VU89
7/16 x 7/16"	36 in	4ETK2
1/2 x 1/2"	12 in	5VU93
1/2 x 5/8"	12 in	5VU96
1/2 x 1/2"	36 in	4ETK4
	72 in	4ETK5
9/16 x 9/16"	12 in	5VU99
	36 in	4ETK6
5/8 x 5/8"	12 in	5VV11
	36 in	4ETK8
3/4 x 3/4"	12 in	5VV14
	36 in	4ETL1
7/8 x 7/8"	12 in	5VV17
	36 in	4ETL3
	72 in	4ETL4
1 x 1"	12 in	5VV21
	36 in	4ETL5
1 1/8 x 1 1/8"	12 in	5VV24
1 1/4 x 1 1/4"	12 in	5VV27
1 1/2 x 1 1/2"	12 in	5VV33
1 3/4 x 1 3/4"	12 in	5VV36
2 x 2"	12 in	5VV38
Medium Carbon Steel, Plain Finish		
4 x 4mm	1 m	5TY34
5 x 5mm	1 m	5TY37
5 x 8mm	1 m	5TY40
6 x 6mm	1 m	5TY43
7 x 7mm	1 m	5TY55
7 x 8mm	1 m	5TY58
8 x 8mm	1 m	5TY64
8 x 10mm	1 m	5TY66
8 x 12mm	1 m	5TY68
9 x 14mm	1 m	5TY72
10 x 10mm	1 m	5TY76
10 x 12mm	1 m	5TY78
10 x 16mm	1 m	5TY80
11 x 18mm	1 m	5TY82
12 x 12mm	1 m	5TY84
12 x 20mm	1 m	5TY86
14 x 14mm	1 m	5TY88
14 x 22mm	1 m	5TY90
14 x 25mm	1 m	5TY92
16 x 28mm	1 m	5TY96
Medium Carbon Steel, Zinc Finish		
4 x 4mm	12 in	5UA25
5 x 5mm	12 in	5UA27
5 x 8mm	12 in	5UA29
6 x 6mm	12 in	5UA31
7 x 7mm	12 in	5UA39
7 x 8mm	12 in	5UA41
8 x 8mm	12 in	5UA47
8 x 10mm	12 in	5UA49
8 x 12mm	12 in	5UA51
9 x 14mm	12 in	5UA54
10 x 10mm	12 in	5UA58
10 x 12mm	12 in	5UA60
10 x 16mm	12 in	5UA62
11 x 18mm	12 in	5UA64
12 x 12mm	12 in	5UA66
12 x 20mm	12 in	5UA68
14 x 14mm	12 in	5UA70
14 x 22mm	12 in	5UA72
14 x 25mm	12 in	5UA74
16 x 16mm	12 in	5UA76
18 x 18mm	12 in	5UA80
18 x 32mm	12 in	5UA82
20 x 20mm	12 in	5UA84
22 x 22mm	12 in	5UA88
25 x 25mm	12 in	5UA92
25 x 28mm	12 in	5UA94
Oversized		
18-8 Stainless Steel, Plain Finish		
1/8 x 1/8"	12 in	5UE33
3/16 x 3/16"	12 in	5UE35
1/4 x 1/4"	12 in	5UE37
5/16 x 5/16"	12 in	5UE39
3/8 x 3/8"	12 in	5UE41
7/16 x 7/16"	12 in	5UE43
1/2 x 1/2"	12 in	5UE45
9/16 x 9/16"	12 in	5UE47
5/8 x 5/8"	12 in	5UE49
3/4 x 3/4"	12 in	5UE51
7/8 x 7/8"	12 in	5UE53
1 x 1"	12 in	5UE55
4 x 4mm	12 in	5VY28
5 x 5mm	12 in	5VY30
6 x 6mm	12 in	5VY32
7 x 7mm	12 in	5VY34
7 x 8mm	12 in	5VY36
8 x 8mm	12 in	5VY38
8 x 10mm	12 in	5VY40
8 x 12mm	12 in	5VY42
9 x 14mm	12 in	5VY44
10 x 10mm	12 in	5VY46
12 x 12mm	12 in	5VY48
14 x 14mm	12 in	5VY50
16 x 16mm	12 in	5VY52
18 x 18mm	12 in	5VY54
20 x 20mm	12 in	5VY56
22 x 22mm	12 in	5VY58
24 x 24mm	12 in	5VY60
Alloy Steel, Plain Finish		
3/16 x 3/16"	12 in	5UU51
1/4 x 1/4"	12 in	5UU53
5/16 x 5/16"	12 in	5UU56
3/8 x 3/8"	12 in	5UU59
1/2 x 1/2"	12 in	5UU62
Low Carbon Steel, Plain Finish		
3/32 x 3/32"	12 in	5UY18
	36 in	5VV58
1/8 x 1/8"	12 in	5UY21
	36 in	5VV60
3/16 x 3/16"	12 in	5UY27
	36 in	5VV64
1/4 x 1/4"	12 in	5UY33
	36 in	5VV68
9/32 x 9/32"	12 in	5UY36
5/16 x 5/16"	12 in	5UY39
	36 in	5VV72
3/8 x 3/8"	12 in	5UY42
	36 in	5VV74
7/16 x 7/16"	12 in	5UY45
	36 in	5VV76
1/2 x 1/2"	12 in	5UY48
	36 in	5VV78
9/16 x 9/16"	12 in	5UY51
5/8 x 5/8"	12 in	5UY54
	36 in	5VV81
11/16 x 11/16"	36 in	5VV83
3/4 x 3/4"	12 in	5UY60
	36 in	5VV85
7/8 x 7/8"	12 in	5UY66
	36 in	5VV90
1 x 1"	12 in	5UY69
	36 in	5VV92
1 1/4 x 1 1/4"	36 in	5VV94
Low Carbon Steel, Zinc Finish		
1/8 x 1/8"	12 in	5UY78
1/8 x 3/16"	12 in	5UY81
1/8 x 1/4"	12 in	5UY84
5/32 x 5/32"	12 in	5UY99
3/16 x 3/16"	12 in	5VA12
3/16 x 1/4"	12 in	5VA15
1/4 x 1/4"	12 in	5VA39
1/4 x 5/16"	12 in	5VA42
1/4 x 3/8"	12 in	5VA45
1/4 x 1/2"	12 in	5VA51
5/16 x 5/16"	12 in	5VA66
5/16 x 3/8"	12 in	5VA69
3/8 x 3/8"	12 in	5VA87
3/8 x 1/2"	12 in	5VA93
3/8 x 5/8"	12 in	5VA99
3/8 x 3/4"	12 in	5VB12
7/16 x 7/16"	12 in	5VB18
7/16 x 1/2"	12 in	5VB21
7/16 x 5/8"	12 in	5VB28
7/16 x 3/4"	12 in	5VB30
1/2 x 1/2"	12 in	5VB34
1/2 x 9/16"	12 in	5VB37
1/2 x 5/8"	12 in	5VB40
1/2 x 3/4"	12 in	5VB46
1/2 x 7/8"	12 in	5VB49
1/2 x 1"	12 in	5VB53
9/16 x 9/16"	12 in	5VB55
9/16 x 5/8"	12 in	5VB58
9/16 x 3/4"	12 in	5VB61
5/8 x 5/8"	12 in	5VB71
5/8 x 3/4"	12 in	5VB76
5/8 x 7/8"	12 in	5VB80
5/8 x 1"	12 in	5VB83
11/16 x 11/16"	12 in	5VB88
11/16 x 7/8"	12 in	5VB94
3/4 x 3/4"	12 in	5VE10
3/4 x 7/8"	12 in	5VE13
3/4 x 1"	12 in	5VE16
3/4 x 1 1/8"	12 in	5VE19
3/4 x 1 1/2"	12 in	5VE25
13/16 x 13/16"	12 in	5VE31
7/8 x 7/8"	12 in	5VE34
7/8 x 1 1/4"	12 in	5VE41
1 x 1"	12 in	5VE49
1 x 1 1/8"	12 in	5VE53
1 x 1 1/4"	12 in	5VE57
1 x 1 1/2"	12 in	5VE61
1 x 2"	12 in	5VE65
1 1/16 x 1 1/16"	12 in	5VE69
1 1/8 x 1 1/8"	12 in	5VE72
1 1/8 x 1 1/4"	12 in	5VE75
1 1/4 x 1 1/4"	12 in	5VE81
1 1/4 x 1 3/4"	12 in	5VE90
1 5/16 x 1 5/16"	12 in	5VE93
1 1/2 x 1 1/2"	12 in	5VE99
1 1/2 x 1 3/4"	12 in	5VU12
1 1/2 x 2"	12 in	5VU15
1 5/8 x 1 5/8"	12 in	5VU18
1 3/4 x 1 3/4"	12 in	5VU21
4 x 4mm	12 in	5VY62
5 x 5mm	12 in	5VY64
6 x 6mm	12 in	5VY68
6 x 10mm	12 in	5VY70
6 x 14mm	12 in	5VY74
7 x 7mm	12 in	5VY76
7 x 8mm	12 in	5VY78
7 x 18mm	12 in	5VY82
8 x 8mm	12 in	5VY84
8 x 10mm	12 in	5VY86
8 x 12mm	12 in	5VY88
9 x 14mm	12 in	5VY92
10 x 10mm	12 in	5VY96
10 x 12mm	12 in	5VY98
10 x 16mm	12 in	5WA10
11 x 18mm	12 in	5WA12
12 x 12mm	12 in	5WA14
12 x 20mm	12 in	5WA16
14 x 14mm	12 in	5WA18
14 x 22mm	12 in	5WA20
16 x 16mm	12 in	5WA24
16 x 28mm	12 in	5WA26
18 x 18mm	12 in	5WA28
18 x 32mm	12 in	5WA30
20 x 20mm	12 in	5WA32
22 x 22mm	12 in	5WA36
25 x 25mm	12 in	5WA40
Bilateral Tolerance		
18-8 Stainless Steel, Plain Finish		
3/16 x 1/4"	12 in	5UE89
1/4 x 1/2"	12 in	5UE93
3/8 x 1/2"	12 in	5UE95
1/2 x 3/4"	12 in	5UE99
5/8 x 3/4"	12 in	5UU11
5/8 x 1"	12 in	5UU13
3/4 x 1"	12 in	5UU15
Aluminum, Plain Finish		
1/4 x 1/4"	12 in	5UU41
5/8 x 5/8"	12 in	5UU47
Brass, Plain Finish		
3/16 x 3/16"	12 in	5UU19
1/4 x 1/4"	12 in	5UU21
5/16 x 5/16"	12 in	5UU23
3/8 x 3/8"	12 in	5UU25
7/16 x 7/16"	12 in	5UU27
1/2 x 1/2"	12 in	5UU29
5/8 x 5/8"	12 in	5UU31
1 x 1"	12 in	5UU35
1 1/4 x 1 1/4"	12 in	5UU37
High Carbon Steel, Plain Finish		
1/16 x 1/16"	12 in	5UU65
3/32 x 3/32"	12 in	5UU68
1/8 x 1/8"	12 in	5UU71
3/16 x 3/16"	12 in	5UU74
1/4 x 1/4"	12 in	5UU77
5/16 x 5/16"	12 in	5UU80
3/8 x 3/8"	12 in	5UU83
7/16 x 7/16"	12 in	5UU86
1/2 x 1/2"	12 in	5UU90
5/8 x 5/8"	12 in	5UU93
3/4 x 3/4"	12 in	5UU96
7/8 x 7/8"	12 in	5UU99
1 x 1"	12 in	5UY12





Step Key Stock

Zinc-plated 1018 grade carbon steel key stock works on couplings, sheaves, sprockets, and pulleys.

Use Type 1 for repair and salvage of damaged keys in shafts.

Use Type 2 when mating mismatched keyways, gears, and shafts.

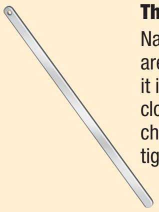
A	B (Dimensions)	C	D	Item No.
Type 1 - 12 in Length				
3/16 in	3/32 in	1/8 in	1/16 in	5WA44
3/8 in	3/16 in	5/16 in	1/8 in	5WA46
	3/16 in	5/16 in	5/32 in	5WA48
1/2 in	1/4 in	7/16 in	5/32 in	5WA50
5/8 in	5/16 in	3/8 in	3/16 in	5WA52
3/4 in	3/8 in	1/2 in	1/4 in	5WA54
	3/8 in	5/8 in	3/16 in	5WA56
	3/8 in	5/8 in	5/16 in	5WA58
1 in	1/2 in	7/8 in	7/16 in	5WA60
Type 2 - 12 in Length				
3/16 in	3/32 in	1/4 in	3/32 in	5WA62
	3/32 in	1/4 in	1/8 in	5WA64
1/4 in	1/8 in	5/16 in	1/8 in	5WA66
	1/8 in	3/8 in	1/8 in	5WA68
	1/8 in	3/8 in	3/16 in	5WA70
3/8 in	3/16 in	7/16 in	5/32 in	5WA72
	3/16 in	1/2 in	3/16 in	5WA74
	3/16 in	1/2 in	1/4 in	5WA76
1/2 in	1/4 in	9/16 in	3/16 in	5WA78
	1/4 in	5/8 in	3/16 in	5WA80
	1/4 in	5/8 in	5/16 in	5WA82
	1/4 in	11/16 in	1/4 in	5WA84
5/8 in	5/16 in	11/16 in	1/4 in	5WA86
3/4 in	3/8 in	7/8 in	7/16 in	5WA88
	3/8 in	1 in	1/2 in	5WA90

Shim Information

Shims are precisely gauged in multiple thicknesses to provide accurate spacing for a variety of uses:

- Equipment leveling during installation
- Tool and die setup and alignment
- Machine assembly, repair, and maintenance
- Mounting, leveling, and aligning motors and pumps

SHIM TYPES

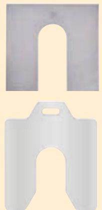


Thickness Gauges
Narrow shims that are used whenever it is required to set close spacing or to check extremely tight tolerances.

Roll

Sheet

Shim Stock
Easy to form and fabricate, shim **Rolls** or **Sheets** can be cut, stamped, bored, milled, sheared, and drilled into almost any shape required to make custom shims.



Slotted Shim

Slotted Shim with Tab

Slotted Shims
Help solve alignment and leveling problems, and eliminate misalignment of expensive machines. End tabs help prevent workers from placing hands under machinery.

MAUDLIN PRODUCTS MW Industries, Inc. — PRECISION BRAND

Shim Stock—Rolls

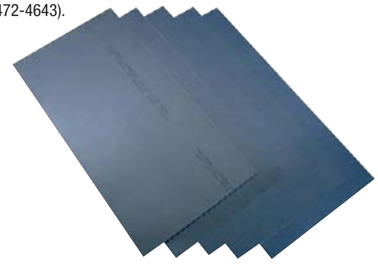
Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Shim Thickness	Shim Width	Shim Length	Item No.
Maudlin Products			
302 Stainless Steel			
0.001 in	6 in	100 in	2NZZ6
0.002 in	6 in	100 in	2NZZ7
0.003 in	6 in	100 in	2NZZ8
0.004 in	6 in	100 in	2NZZ9
0.005 in	6 in	100 in	2PAA1
0.006 in	6 in	100 in	2PAA2
0.007 in	6 in	100 in	2PAA3
0.008 in	6 in	100 in	2PAA4
0.009 in	6 in	100 in	2PAA5
0.01 in	6 in	100 in	2PAA6
0.012 in	6 in	100 in	2PAA7
0.015 in	6 in	100 in	2PAA8
0.02 in	6 in	100 in	2PAA9
0.025 in	6 in	100 in	2PAC1
0.031 in	6 in	100 in	2PAC2
316 Stainless Steel			
0.002 in	6 in	50 in	2NZW6
0.002 in	6 in	100 in	2NZY6
0.002 in	12 in	50 in	2NZX6
0.003 in	6 in	50 in	2NZW7
0.003 in	6 in	100 in	2NZY7
0.003 in	12 in	50 in	2NZX7
0.004 in	6 in	50 in	2NZW8
0.004 in	6 in	100 in	2NZY8
0.004 in	12 in	50 in	2NZX8
0.005 in	6 in	50 in	2NZW9
0.005 in	6 in	100 in	2NZY9
0.005 in	12 in	50 in	2NZX9
0.007 in	6 in	50 in	2NZX1
0.007 in	6 in	100 in	2NZZ1
0.007 in	12 in	50 in	2NZY1
0.01 in	6 in	50 in	2NZX2
0.01 in	6 in	100 in	2NZZ2
0.01 in	12 in	50 in	2NZY2
0.015 in	6 in	50 in	2NZX3
0.015 in	6 in	100 in	2NZZ3
0.015 in	12 in	50 in	2NZY3
0.02 in	6 in	50 in	2NZX4
0.02 in	6 in	100 in	2NZZ4
0.02 in	12 in	50 in	2NZY4
0.025 in	6 in	50 in	2NZX5
0.025 in	6 in	100 in	2NZZ5
0.025 in	12 in	50 in	2NZY5
Precision Brand			
1008-1010 Steel			
0.001 in	6 in	100 in	3L432
0.002 in	6 in	100 in	3L436
0.002 in	6 in	180 in	5EY18
0.002 in	12 in	120 in	5EU80
0.003 in	6 in	100 in	3L441
0.003 in	6 in	180 in	5EY23
0.004 in	6 in	100 in	3L445
0.005 in	6 in	100 in	3L447
0.005 in	6 in	180 in	5EY27
0.005 in	12 in	120 in	5EU83
0.006 in	6 in	100 in	3L449
0.007 in	6 in	100 in	3L452
0.008 in	6 in	100 in	3L454
0.01 in	6 in	100 in	3L458
0.01 in	6 in	180 in	5EY12
0.01 in	12 in	120 in	5EU88
0.015 in	6 in	100 in	3L465
0.015 in	12 in	120 in	5EU92
0.02 in	6 in	100 in	3L472
0.02 in	6 in	180 in	5EY20
0.02 in	12 in	120 in	5EU95
0.025 in	6 in	100 in	3L476
0.025 in	12 in	120 in	5EU97
0.031 in	6 in	100 in	3L478
0.031 in	12 in	120 in	5EU99
1095 Steel			
0.003 in	3 in	50 in	3L709
110 Copper			
0.001 in	6 in	100 in	5HA12
0.002 in	6 in	100 in	5HA13
0.005 in	6 in	100 in	5HA16
0.01 in	6 in	100 in	5HA20
260 Brass			
0.001 in	6 in	100 in	3L485
0.001 in	6 in	180 in	5EY83
0.002 in	6 in	100 in	3L489
0.002 in	6 in	180 in	5EY88
0.003 in	6 in	100 in	3L492
0.004 in	6 in	100 in	3L494
0.005 in	6 in	100 in	3L496
0.006 in	6 in	100 in	3L498
0.007 in	6 in	100 in	3L501
0.008 in	6 in	100 in	3L503
0.01 in	6 in	100 in	3L507
0.012 in	6 in	100 in	3L509
0.015 in	6 in	100 in	3L512
0.015 in	6 in	180 in	5EY87
0.02 in	6 in	100 in	3L514
0.025 in	6 in	100 in	3L516
0.031 in	6 in	100 in	3L518
0.031 in	6 in	180 in	5EY92
302 Stainless Steel			
0.0005 in	6 in	50 in	3L596
0.001 in	6 in	50 in	3L598
0.001 in	12 in	50 in	5FA37
0.0015 in	6 in	50 in	3L601
0.002 in	6 in	50 in	3L603
0.002 in	12 in	50 in	5FA38
0.003 in	6 in	50 in	3L605
0.003 in	12 in	50 in	5FA39
0.0039 in	150 mm	1.25 m	5FA57
0.004 in	6 in	50 in	3L607
0.004 in	12 in	50 in	5FA40
0.005 in	6 in	50 in	3L609
0.005 in	12 in	50 in	5FA41
0.006 in	12 in	50 in	5FA42
0.008 in	6 in	50 in	3L689
0.01 in	6 in	50 in	3L693
0.01 in	12 in	50 in	5FA45
0.0118 in	150 mm	1.25 m	5FA61
0.015 in	6 in	50 in	3L697
0.015 in	12 in	50 in	5FA47
0.0197 in	150 mm	1.25 m	5FA63
0.02 in	6 in	50 in	3L699
0.02 in	12 in	50 in	5FA48
0.025 in	6 in	50 in	3L701
0.031 in	6 in	50 in	3L703
H18/H19 Aluminum			
0.003 in	6 in	100 in	5HA23
0.01 in	6 in	100 in	5HA28

PRECISION BRAND

Shim Stock—Sheets

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).



Shim Thickness	Shim Width	Shim Length	Thickness Tolerance	Color	Item No.	Pkg. Qty.
1095 Blue Tempered Spring Steel						
0.008 in	6 in	25 in	+/-0.00075 in	—	3L719	2
0.01 in	6 in	25 in	+/-0.001 in	—	3L721	2
0.012 in	6 in	25 in	+/-0.001 in	—	3L723	2
0.015 in	6 in	25 in	+/-0.0015 in	—	3L725	2
0.02 in	6 in	25 in	+/-0.002 in	—	3L727	2
0.025 in	6 in	25 in	+/-0.002 in	—	3L729	2
0.032 in	6 in	25 in	+/-0.002 in	—	3L731	2
260 Alloy Brass						
0.001 in	6 in	18 in	+/-0.0001 in	—	5EY99	10
0.0015 in	6 in	18 in	+/-0.00015 in	—	5FA10	10
0.002 in	6 in	18 in	+/-0.0002 in	—	5FA11	10
0.003 in	6 in	18 in	+/-0.0003 in	—	5FA12	10
0.004 in	6 in	18 in	+/-0.0003 in	—	5FA13	10
0.005 in	6 in	18 in	+/-0.0004 in	—	5FA14	10
0.006 in	6 in	18 in	+/-0.0004 in	—	5FA15	10
0.01 in	6 in	18 in	+/-0.0008 in	—	5FA19	10
0.012 in	6 in	18 in	+/-0.0008 in	—	5FA20	10
0.012 in	6 in	25 in	+/-0.0008 in	—	5EY77	2
0.015 in	6 in	18 in	+/-0.0010 in	—	5FA21	10
0.015 in	6 in	25 in	+/-0.0010 in	—	5EY78	2
0.02 in	6 in	18 in	+/-0.0013 in	—	5FA22	10
0.02 in	6 in	25 in	+/-0.0013 in	—	5EY80	2
0.025 in	6 in	18 in	+/-0.002 in	—	5FA23	10
0.025 in	6 in	25 in	+/-0.002 in	—	5EY81	2
0.031 in	6 in	18 in	+/-0.002 in	—	5FA24	10
0.031 in	6 in	25 in	+/-0.002 in	—	5EY82	2
302 Stainless Steel						
0.008 in	6 in	25 in	+/-0.0008 in	—	5FA49	2
0.01 in	6 in	25 in	+/-0.001 in	—	5FA50	2
0.012 in	6 in	25 in	+/-0.001 in	—	5FA51	2
0.015 in	6 in	25 in	+/-0.001 in	—	5FA52	2
0.02 in	6 in	25 in	+/-0.0015 in	—	5FA53	2
0.025 in	6 in	25 in	+/-0.0015 in	—	5FA54	2
0.025 in	12 in	24 in	+/-0.0015 in	—	5FA66	2
0.031 in	6 in	25 in	+/-0.002 in	—	5FA55	2
0.031 in	12 in	24 in	+/-0.002 in	—	5FA67	2
Low Carbon Steel						
0.001 in	6 in	18 in	+/-0.0001 in	—	5EY32	10
0.0015 in	6 in	18 in	+/-0.00015 in	—	5EY33	10
0.002 in	6 in	18 in	+/-0.0002 in	—	5EY34	10
0.0025 in	6 in	18 in	+/-0.00025 in	—	5EY35	10
0.003 in	6 in	18 in	+/-0.0003 in	—	5EY36	10
0.0035 in	6 in	18 in	+/-0.0005 in	—	5EY37	10
0.004 in	6 in	18 in	+/-0.0005 in	—	5EY38	10
0.005 in	6 in	18 in	+/-0.0005 in	—	5EY39	10
0.006 in	6 in	18 in	+/-0.0005 in	—	5EY40	10
0.007 in	6 in	18 in	+/-0.00075 in	—	5EY41	10
0.008 in	6 in	18 in	+/-0.00075 in	—	5EY42	10
0.009 in	6 in	18 in	+/-0.00075 in	—	5EY43	10
0.01 in	6 in	18 in	+/-0.00075 in	—	5EY44	10
0.012 in	6 in	18 in	+/-0.00075 in	—	5EY45	10
0.012 in	6 in	25 in	+/-0.00075 in	—	5EU89	2
0.015 in	6 in	18 in	+/-0.00075 in	—	5EY47	10
0.018 in	6 in	18 in	+/-0.00075 in	—	5EY49	10
0.02 in	6 in	18 in	+/-0.001 in	—	5EY50	10
0.022 in	6 in	18 in	+/-0.001 in	—	5EY51	10
0.025 in	6 in	18 in	+/-0.001 in	—	5EY52	10
0.031 in	6 in	18 in	+/-0.0015 in	—	5EY53	10
0.031 in	6 in	25 in	+/-0.0015 in	—	5EU98	2
Plastic						
0.0005 in	5 in	20 in	+/-0.000025 in	Silver	5GE80	5
0.001 in	5 in	20 in	+/-0.00005 in	Amber	5GE81	5
0.001 in	10 in	20 in	+/-0.00005 in	Amber	5GE98	5
0.0015 in	10 in	20 in	+/-0.000075 in	Purple	5GE65	1
0.0015 in	10 in	20 in	+/-0.000075 in	Purple	5GE99	5
0.002 in	5 in	20 in	+/-0.0001 in	Red	5GE83	5
0.002 in	10 in	20 in	+/-0.0001 in	Red	5GU10	5
0.003 in	5 in	20 in	+/-0.00015 in	Green	5GE84	5
0.003 in	10 in	20 in	+/-0.00015 in	Green	5GU11	5
0.004 in	5 in	20 in	+/-0.0002 in	Tan	5GE85	10
0.004 in	10 in	20 in	+/-0.0002 in	Tan	5GU12	10
0.005 in	5 in	20 in	+/-0.00025 in	Blue	5GE86	10
0.005 in	10 in	20 in	+/-0.00025 in	Blue	5GE69	1
0.005 in	10 in	20 in	+/-0.00025 in	Blue	5GU13	10
0.0075 in	5 in	20 in	+/-0.000375 in	Matte	5GE87	10
0.0075 in	10 in	20 in	+/-0.000375 in	Matte	5GE70	1
0.0075 in	10 in	20 in	+/-0.000375 in	Matte	5GU14	10
0.01 in	5 in	20 in	+/-0.0005 in	Brown	5GE88	10
0.01 in	10 in	20 in	+/-0.0005 in	Brown	5GE71	1
0.01 in	10 in	20 in	+/-0.0005 in	Brown	5GU15	10
0.0125 in	5 in	20 in	+/-0.000625 in	Black	5GE89	10
0.0125 in	10 in	20 in	+/-0.000625 in	Black	5GE72	1
0.0125 in	10 in	20 in	+/-0.000625 in	Black	5GU16	10
0.015 in	5 in	20 in	+/-0.00075 in	Pink	5GE90	10
0.015 in	10 in	20 in	+/-0.00075 in	Pink	5GE73	1
0.015 in	10 in	20 in	+/-0.00075 in	Pink	5GU17	10
0.02 in	5 in	20 in	+/-0.001 in	Yellow	5GE91	10
0.02 in	10 in	20 in	+/-0.001 in	Yellow	5GE74	1
0.02 in	10 in	20 in	+/-0.001 in	Yellow	5GU18	10
0.025 in	5 in	20 in	+/-0.00125 in	White	5GE92	10
0.025 in	10 in	20 in	+/-0.00125 in	White	5GE75	1
0.03 in	5 in	20 in	+/-0.0015 in	Coral	5GE93	10
0.03 in	10 in	20 in	+/-0.0015 in	Coral	5GE76	1
0.03 in	10 in	20 in	+/-0.0015 in	Coral	5GU20	10
0.04 in	5 in	20 in	+/-0.002 in	Clear	5GE94	3
0.04 in	10 in	20 in	+/-0.002 in	Clear	5GE77	1
0.04 in	10 in	20 in	+/-0.002 in	Clear	5GU21	3
0.04 in	21 in	51 in	+/-5%	Clear	42DJ91	1
0.05 in	5 in	20 in	+/-0.0025 in	Clear	5GE95	3
0.05 in	10 in	20 in	+/-0.0025 in	Clear	5GE78	1
0.05 in	10 in	20 in	+/-0.0025 in	Clear	5GU22	3
0.06 in	5 in	20 in	+/-0.003 in	Clear	5GE96	3
0.06 in	10 in	20 in	+/-0.003 in	Clear	5GE79	1
0.06 in	10 in	20 in	+/-0.003 in	Clear	5GU23	3

PRECISION BRAND

Plastic Shim Stock

- 14-Pc. Sheet Assortment
- Contain 1 pc. of each thickness
- Easy to cut, oil-resistant, and nonconductive to electricity

Each thickness is indicated by a different shim color. Thickness tolerances to industry standards. Use for gaskets, special parts, and various manufacturing applications.

POLYESTER Color	POLYESTER Shim Thickness	PVC Color	PVC Shim Thickness
Silver	0.0005"	Matte	0.0075"
Amber	0.0010"	Brown	0.0100"
Purple	0.0015"	Black	0.0125"
Red	0.0020"	Pink	0.0150"
Green	0.0030"	Yellow	0.0200"
Tan	0.0040"	White	0.0250"
Blue	0.0050"	Coral	0.0300"

Shim Width	Shim Length	Item No.
5 in	20 in	3L881
10 in	20 in	3L883
20 in	20 in	3L885

PRECISION BRAND.

Metal Shim Stock—Sheet Assortments

Thickness and lot numbers printed on every sheet.

Shim Thickness	6-Piece	8-Piece	12-Piece	15-Piece
0.0010"	—	X	X	X
0.0015"	—	—	X	X
0.0020"	—	X	X	X
0.0030"	—	X	X	X
0.0040"	—	—	X	X
0.0050"	X	X	X	X
0.0060"	—	—	X	X
0.0070"	—	—	X	X
0.0080"	—	X	X	X
0.0100"	X	X	X	X
0.0120"	—	—	X	X
0.0150"	X	X	X	X
0.0200"	X	X	—	X
0.0250"	X	—	—	X
0.0310"	—	—	—	X
0.0320"	X	—	—	—

Material	Pieces	6 x 12" Item No.	6 x 18" Item No.
302 Stainless Steel	8	**3L705**	—
Low Carbon Steel	12	**3L481**	**5EY54**
	15	**3L483**	**5EY55**
260 Alloy Brass	12	**3L521**	**5FA25**
	15	**3L523**	**5FA26**
Blue Tempered Spring Steel	6	**3L733**	—

A-2"x2", Full Kit 260 pcs. 36D703

Slotted Shim Assortments

Used for aligning and leveling equipment. Hardened 302/304 stainless steel material resists rust and corrosion. Sizes A to D have a tab for easy gripping. Sizes E and H are not tabbed. 260-pc. and 130-pc. kits come packed in a latching metal box. 80-pc. kits come packed in a sturdy reusable carton.

Shim Trade Size	Shim Width	Shim Length	Slot Width	Slot Depth	Includes	Item No.
Without Tab						
52 pc.						
E	6 in	6 in	2 in	4 in	4 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D707**
H	8 in	8 in	2 ⅜ in	6 in		**36D708**
With Tab						
80 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	10 Each of 0.001, 0.003, 0.005, 0.010, 0.015, 0.020, 0.025, and 0.075	**36D713**
B	3 in	3 in	⅞ in	2 ⅛ in		**36D714**
C	4 in	4 in	1 ¼ in	2 ¾ in		**36D715**
D	5 in	5 in	1 ⅝ in	3 ⅛ in		**36D716**
130 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	10 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D709**
B	3 in	3 in	⅞ in	2 ⅛ in		**36D710**
C	4 in	4 in	1 ¼ in	2 ¾ in		**36D711**
D	5 in	5 in	1 ⅝ in	3 ⅝ in		**36D712**
260 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D703**
A, B, C, D	2 in, 3 in, 4 in, 5 in	2 in, 3 in, 4 in, 5 in	⅝ in, ⅞ in, 1 ¼ in, 1 ⅝ in	1 9/32 in, 2 ⅛ in, 2 ¾ in, 3 ⅝ in	5 each of size A, B, C, D in the following thicknesses: 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, 0.125	**36D717**
B	3 in	3 in	⅞ in	2 ⅛ in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**36D704**
C	4 in	4 in	1 ¼ in	2 ¾ in		**36D705**
D	5 in	5 in	1 ⅝ in	3 ⅝ in		**36D706**

High-Carbon Spring Steel 5XE66

Thickness Gage Assortments

PRECISION BRAND.

All blades except plastic are etched with English and metric thickness measurements. Steel, brass, and stainless steel blades come packed in individual blade pockets; plastic blades are riveted together.

Material	No. of Pieces	Blade Length (in.)	Blade Width (in.)	Item No.
Plastic	13	5 in	½ in	**5XU53**
	13	12 in	½ in	**5XU52**
High-Carbon Spring Steel	20	5 in	½ in	**5XE66**
	20	12 in	½ in	**5XE75**
260 Alloy Brass	20	5 in	½ in	**5XB99**
301 Stainless Steel	20	5 in	½ in	**5XU51**

Assortments Include

Thickness (In.)	Thickness (mm)	5XU53	5XU52	5XE66	5XE75	5XB99	5XU51
0.0010	0.025	1	1	1	1	1	2
0.0015	0.038	1	1	1	1	1	2
0.0020	0.051	1	1	1	1	1	2
0.0030	0.076	1	1	1	1	1	2
0.0040	0.102	1	1	1	1	1	1
0.0050	0.127	1	1	1	1	1	1
0.0060	0.152	—	—	1	1	1	1
0.0070	0.178	—	—	1	1	1	1
0.0075	0.191	1	1	—	—	—	—
0.0080	0.203	—	—	1	1	1	1
0.0090	0.229	—	—	1	1	1	1
0.0100	0.254	1	1	1	1	1	1
0.0120	0.305	—	—	1	1	1	1
0.0125	0.318	1	1	—	—	—	—
0.0140	0.356	—	—	1	1	1	—
0.0150	0.381	1	1	1	1	1	1
0.0160	0.406	—	—	1	1	1	—
0.0180	0,457	—	—	1	1	1	—
0.0200	0.508	1	1	1	1	1	1
0.0220	0.559	—	—	1	1	1	—
0.0240	0.610	—	—	1	—	—	—
0.0250	0.635	1	1	1	1	1	1
0.0300	0.762	1	1	—	1	1	—
0.0310	0.787	—	—	—	—	—	1

MAUDLIN PRODUCTS. MW Industries, Inc.

Shim Stock Assortments

Slotted shims 0.001" through 0.031" have the tightest tolerances the industry can provide. Sizes 0.050" through 0.125" are made from re-rolled material, which reduces thickness tolerances to ±0.002". To prevent soft foot problems, 0.050" through 0.125" shims are quality processed to ensure flatness.

Shim Trade Size	Shim Width	Shim Length	Slot Width	Slot Depth	Includes	Item No.
With Tab						
260 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH3**
A, B, C, D	—	—	—	—	5 Each of sizes A,B,C,D 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZJ8**
B	3 in	3 in	⅞ in	2 ⅛ in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH4**
C	4 in	4 in	1 ¼ in	2 ¾ in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125, Metal Box, Shim Removal Tool, Shim Lock	**2NZH5**
D	5 in	5 in	1 ⅝ in	3 ⅝ in	20 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH6**
130 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	10 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH9**
B	3 in	3 in	⅞ in	2 ⅛ in		**2NZJ1**
C	4 in	4 in	1 ¼ in	2 ¾ in		**2NZJ2**
D	5 in	5 in	1 ⅝ in	3 ⅝ in		**2NZJ3**
80 pc.						
A	2 in	2 in	⅝ in	1 9/32 in	10 Each of 0.001, 0.003, 0.005, 0.010, 0.015, 0.020, 0.025, and 0.075	**2NZJ4**
B	3 in	3 in	⅞ in	2 ⅛ in		**2NZJ5**
C	4 in	4 in	1 ¼ in	2 ¾ in		**2NZJ6**
D	5 in	5 in	1 ⅝ in	3 ⅝ in		**2NZJ7**
Without Tab						
52 pc.						
E	6 in	6 in	2 in	4 in	4 Each of 0.001, 0.002, 0.003, 0.004, 0.005, 0.010, 0.015, 0.020, 0.025, 0.050, 0.075, 0.100, and 0.125	**2NZH7**
H	8 in	8 in	2 ½ in	6 in		**2NZH8**

Individual Slotted Shims with Tabs

All sizes have tabs with holes, for easier, safer installation and removal. All shims conform to standard bolt and stud size. Each is marked with thickness in decimal and metric.

Shim Thickness	Approved Vendor Slot Width	Approved Vendor Slot Depth	Approved Vendor Item No.	Approved Vendor Pkg. Qty.	Maudlin Products Slot Width	Maudlin Products Slot Depth	Maudlin Products Item No.	Maudlin Products Pkg. Qty.
A-2" x 2"								
0.001"	⅝"	1 9⁄32"	**36D718**	20	⅝"	1 9⁄32"	**2NZJ9**	20
0.002"	⅝"	1 9⁄32"	**36D719**	20	⅝"	1 9⁄32"	**2NZK1**	20
0.003"	⅝"	1 9⁄32"	**36D720**	20	⅝"	1 9⁄32"	**2NZK2**	20
0.004"	⅝"	1 9⁄32"	**36D721**	20	⅝"	1 9⁄32"	**2NZK3**	20
0.005"	⅝"	1 9⁄32"	**36D722**	20	⅝"	1 9⁄32"	**2NZK4**	20
0.01"	⅝"	1 9⁄32"	**36D723**	20	⅝"	1 9⁄32"	**2NZK5**	20
0.015"	⅝"	1 9⁄32"	**36D724**	20	⅝"	1 9⁄32"	**2NZK6**	20
0.02"	⅝"	1 9⁄32"	**36D725**	20	⅝"	1 9⁄32"	**2NZK7**	20
0.025"	⅝"	1 9⁄32"	**36D726**	20	⅝"	1 9⁄32"	**2NZK8**	20
0.05"	⅝"	1 9⁄32"	**36D727**	10	⅝"	1 9⁄32"	**2NZK9**	10
0.075"	⅝"	1 9⁄32"	**36D728**	10	⅝"	1 9⁄32"	**2NZL1**	10
0.1"	⅝"	1 9⁄32"	**36D729**	5	⅝"	1 9⁄32"	**2NZL2**	5
0.125"	⅝"	1 9⁄32"	**36D730**	5	⅝"	1 9⁄32"	**2NZL3**	5

Shim Thickness	Approved Vendor Slot Width	Approved Vendor Slot Depth	Approved Vendor Item No.	Approved Vendor Pkg. Qty.	Maudlin Products Slot Width	Maudlin Products Slot Depth	Maudlin Products Item No.	Maudlin Products Pkg. Qty.
B-3" x 3"								
0.001"	⅞"	2⅛"	**36D731**	20	⅞"	2⅛"	**2NZL4**	20
0.002"	⅞"	2⅛"	**36D732**	20	⅞"	2⅛"	**2NZL5**	20
0.003"	⅞"	2⅛"	**36D733**	20	⅞"	2⅛"	**2NZL6**	20
0.004"	⅞"	2⅛"	**36D734**	20	⅞"	2⅛"	**2NZL7**	20
0.005"	⅞"	2⅛"	**36D735**	20	⅞"	2⅛"	**2NZL8**	20
0.01"	⅞"	2⅛"	**36D736**	20	⅞"	2⅛"	**2NZL9**	20
0.015"	⅞"	2⅛"	**36D737**	20	⅞"	2⅛"	**2NZN1**	20
0.02"	⅞"	2⅛"	**36D738**	20	⅞"	2⅛"	**2NZN2**	20
0.025"	⅞"	2⅛"	**36D739**	20	⅞"	2⅛"	**2NZN3**	20
0.05"	⅞"	2⅛"	**36D740**	10	⅞"	2⅛"	**2NZN4**	10
0.075"	⅞"	2⅛"	**36D741**	10	⅞"	2⅛"	**2NZN5**	10
0.1"	⅞"	2⅛"	**36D742**	5	⅞"	2⅛"	**2NZN6**	5
0.125"	⅞"	2⅛"	**36D743**	5	⅞"	2⅛"	**2NZN7**	5

Shim Thickness	Approved Vendor Slot Width	Approved Vendor Slot Depth	Approved Vendor Item No.	Approved Vendor Pkg. Qty.	Maudlin Products Slot Width	Maudlin Products Slot Depth	Maudlin Products Item No.	Maudlin Products Pkg. Qty.
C-4" x 4"								
0.001"	1¼"	2¾"	**36D744**	20	1¼"	2¾"	**2NZN8**	20
0.002"	1¼"	2¾"	**36D745**	20	1¼"	2¾"	**2NZN9**	20
0.003"	1¼"	2¾"	**36D746**	20	1¼"	2¾"	**2NZP1**	20
0.004"	1¼"	2¾"	**36D747**	20	1¼"	2¾"	**2NZP2**	20
0.005"	1¼"	2¾"	**36D748**	20	1¼"	2¾"	**2NZP3**	20
0.01"	1¼"	2¾"	**36D749**	20	1¼"	2¾"	**2NZP4**	20
0.015"	1¼"	2¾"	**36D750**	20	1¼"	2¾"	**2NZP5**	20
0.02"	1¼"	2¾"	**36D751**	20	1¼"	2¾"	**2NZP6**	20
0.025"	1¼"	2¾"	**36D752**	20	1¼"	2¾"	**2NZP7**	20
0.05"	1¼"	2¾"	**36D753**	10	1¼"	2¾"	**2NZP8**	10
0.075"	1¼"	2¾"	**36D754**	10	1¼"	2¾"	**2NZP9**	10
0.1"	1¼"	2¾"	**36D755**	5	1¼"	2¾"	**2NZR1**	5
0.125"	1¼"	2¾"	**36D756**	5	1¼"	2¾"	**2NZR2**	5

Carbon Steel Information

Material	Tensile Strength (psi)*	Yield Strength (psi)*	Hardness (BHN)*	Toughness	Wear Resistance	Formability	Machinability†	Weldability
Low Carbon Grade								
Low Carbon - Cold Rolled	38,000 to 50,000	25,000 to 35,000	107 Max.	Fair	Fair	Excellent	Good	Excellent
Low Carbon - Hot Rolled	58,000 to 80,000	36,000	107 Max.	Fair	Fair	Excellent	Good	Excellent
1009	60,000	33,000	149	Fair	Fair	Fair	Good	Excellent
1015	58,000	42,000	149	Fair	Fair	Good	Good	Excellent
1018	65,000 to 85,000	55,000 to 75,000	167	Fair	Fair	Good	Good	Excellent
Medium Carbon Grade								
1045	90,000	59,000	—	Good	Poor	Fair	Fair	Poor
1144	100,000	95,500	223	Good	Poor	Fair	Good	Poor
Screw Machine Grade								
12L14	78,000 to 85,000	60,000 to 75,000	187	Poor	Poor	Poor	Excellent	Not Recommended
1215	78,000 to 95,000	60,000 to 80,000	187	Poor	Fair	Not Recommended	Excellent	Not Recommended

** Typical levels @ 1" dia. † Compared to AISI 1212, which has 100% machinability.*

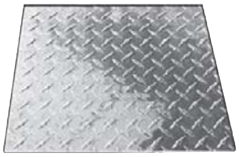
Carbon Steel—Plates

- Standards: ASTM A36 (hot-rolled); ASTM A366 (cold-roll)
- Length and width tolerances: +0.125/-0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Thickness Tolerance	1 FT. x 1 FT. Item No.	2 FT. x 1 FT. Item No.	4 FT. x 1 FT. Item No.	4 FT. x 2 FT. Item No.
Hot Rolled A36 Steel					
0.125 in	+/-0.030"	**3DRT8**	**3DRT9**	**3DRU1**	**3DRU2**
0.187 in	+/-0.030"	**3DRU3**	**3DRU4**	**3DRU5**	**3DRU6**
0.25 in	+/-0.030"	**3DRU7**	**3DRU8**	**3DRU9**	**3DRV1**
Cold Finish 1008 Steel					
0.062 in	+/-0.0025"	**3DRW5**	**3DRW6**	**3DRW7**	**3DRW8**
0.047 in	+/-0.0020"	**3DRW9**	**3DRX1**	**3DRX2**	**3DRX3**
0.032 in	+/-0.0015"	**3DRX4**	**3DRX5**	**3DRX6**	**3DRX7**

Carbon Steel—Tread Plates



- 1009 alloy steel meets ASTM A786
- Length and width tolerances: +0.125/-0.000"

Easily welded material provides excellent skid resistance.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Thickness Tolerance	1 ft x 1 ft Item No.	2 ft x 1 ft Item No.	4 ft x 1 ft Item No.	4 ft x 2 ft Item No.
⅛ in	+/-0.015 in	**3DRV2**	**3DRV3**	**3DRV4**	**3DRV5**
3⁄16 in	+/-0.017 in	**3DRV6**	**3DRV7**	**3DRV8**	**3DRV9**
¼ in	+/-0.017 in	**3DRW1**	**3DRW2**	**3DRW3**	**3DRW4**

Carbon Steel—90° Angles

- Low carbon alloy steel
- Length tolerance: ±0.125"
- Length 6 ft.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Leg Length	Leg Length Tolerance	Thickness Tolerance	Item No.
¼ in Thickness			
1 in	+/-0.0313 in	+/-0.010 in	**2AUT3**
1 ½ in	+/-0.046 in	+/-0.010 in	**2AUT4**
2 in	+/-0.046 in	+/-0.010 in	**2AUT5**
2 ½ in	+/-0.0625 in	+/-0.015 in	**2AUT6**
3 in	+/-0.125 in	+/-0.015 in	**2AHN1**
4 in	+/-0.125 in	+/-0.015 in	**2AHN2**
⅛ in Thickness			
¾ in	+/-0.0313 in	+/-0.008 in	**2AHL9**
1 in	+/-0.0313 in	+/-0.008 in	**2AUR7**
1 ¼ in	+/-0.046 in	+/-0.010 in	**2AUR8**
1 ½ in	+/-0.046 in	+/-0.010 in	**2AUR9**
2 in	+/-0.046 in	+/-0.010 in	**2AUT1**
3⁄16 in Thickness			
1 ½ in	+/-0.046 in	+/-0.010 in	**2AUT2**

Carbon Steel—Structural Square Tubes

- 1015 alloy meets ASTM A500 Grade B
- Length tolerance: +0.125/-0.000"
- Length 6 ft.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Outside Dia.	Outside Dia. Tolerance	Wall Thickness Tolerance	Item No.
⅛ in Wall Thickness			
¾"	+/-0.025"	+/-0.013 in	**3DRR4**
1"	+/-0.025"	+/-0.013 in	**3DRR5**
1¼"	+/-0.025"	+/-0.013 in	**3DRR6**
1½"	+/-0.025"	+/-0.013 in	**3DRR7**
2"	+/-0.025"	+/-0.013 in	**3DRR8**
3"	+/-0.025"	+/-0.013 in	**3DRR9**
3⁄16 in Wall Thickness			
1½"	+/-0.025"	+/-0.019 in	**3DRT1**
2"	+/-0.025"	+/-0.019 in	**3DRT2**
2½"	+/-0.025"	+/-0.019 in	**3DRT3**
3"	+/-0.025"	+/-0.019 in	**3DRT4**
¼ in Wall Thickness			
2"	+/-0.025"	+/-0.025 in	**3DRT5**
3"	+/-0.025"	+/-0.025 in	**3DRT6**
4"	+/-0.025"	+/-0.025 in	**3DRT7**

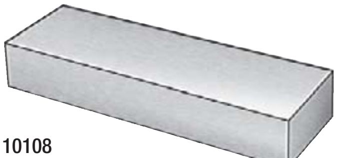
Carbon Steel—Hexagonal Rods

- 1018 alloy meets ASTM 108, UNS# G10180, AISI 1018
- 12L14 alloy meets ASTM 108, UNS# G1244
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Hex Width	Hex Width Tolerance	1 FT LENGTH Item No.	3 FT LENGTH Item No.	6 FT LENGTH Item No.
1018 Carbon Steel				
½"	+0.000/-0.002 in	—	—	**2HJN1**
⅝"	+0.000/-0.002 in	—	—	**2HJN2**
¾"	+0.000/-0.002 in	—	—	**2HJN3**
1"	+0.000/-0.003 in	**2AVF5**	—	**2HJN5**
1¼"	+0.000/-0.003 in	**2AVF6**	**2AVG1**	**2HJN6**
1½"	+0.000/-0.003 in	—	—	**2HJN7**
2"	+0.000/-0.004 in	—	**2AVG3**	—
2½"	+0.000/-0.004 in	**2AVF9**	**2AVG4**	**2HJN9**

Hex Width	Hex Width Tolerance	1 FT LENGTH Item No.	3 FT LENGTH Item No.	6 FT LENGTH Item No.
12L14 Carbon Steel				
5⁄16"	+/-0.002 in	**4YNE6**	**4YNE7**	—
⅜"	+/-0.002 in	**4YNE9**	**4YNF1**	**4YNF2**
7⁄16"	+/-0.002 in	**4YNF3**	**4YNF4**	—
½"	+/-0.002 in	**4YNF6**	**4YNF7**	**2HJW1**
⅝"	+/-0.002 in	**4YNF9**	**4YNG1**	**2HJW2**
¾"	+/-0.003 in	**4YNG3**	**4YNG4**	**2HJW3**
⅞"	+/-0.003 in	**4YNG6**	**4YNG7**	**2HJW4**
1"	+/-0.003 in	**4YNG9**	**4YNH1**	**2HJW5**
1¼"	+0.000/-0.003 in	—	**2HJV4**	—
1½"	+0.000/-0.003 in	—	—	**2HJW7**
1¾"	+0.000/-0.004 in	**2HJV1**	—	—
2"	+0.000/-0.004 in	—	**2HJV7**	**2HJW9**
3"	+0.000/-0.005 in	**2HJV3**	—	—

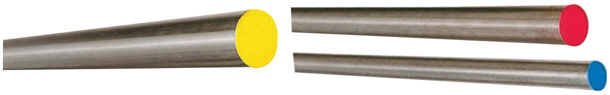


Carbon Steel—Rectangular Bars

- 1018 alloy meets ASTM 108, AISI 10108
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Width	Width Tolerance	Thickness Tolerance	1 ft. LENGTH Item No.	3 ft. LENGTH Item No.	6 ft. LENGTH Item No.
1018 Carbon Steel						
0.125 in	1 in	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGY6
	1 ½ in	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGY8
	2 in	+0.000/-0.005"	+0.000/-0.005"	—	—	2HGY9
0.187 in	1 in	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGZ3
	1 ½ in	+0.000/-0.004"	+0.000/-0.004"	—	—	2HGZ5
0.25 in	1 in	+0.000/-0.004"	+0.000/-0.004"	—	2HHA3	2HHB8
	1 ½ in	+0.000/-0.004"	+0.000/-0.004"	—	2HHA6	2HHC2
	1 ¼ in	+0.000/-0.004"	+0.000/-0.004"	—	2HHA4	2HHB9
	2 in	+0.000/-0.005"	+0.000/-0.005"	2HGZ6	2HHA8	2HHC4
	2 ½ in	+0.000/-0.005"	+0.000/-0.005"	2HGZ7	2HHA9	2HHC5
	3 in	+0.000/-0.005"	+0.000/-0.005"	2HGZ8	2HHB1	2HHC6
	3 ½ in	+0.000/-0.006"	+0.000/-0.006"	2HGZ9	2HHB2	2HHC7
	4 in	+0.000/-0.006"	+0.000/-0.006"	2HHA1	2HHB3	2HHC8
	5 in	+0.000/-0.008"	+0.000/-0.008"	2AGW6	2AGW8	2AGX1
	6 in	+0.000/-0.008"	+0.000/-0.008"	2AGW7	2AGW9	2AGX2
0.375 in	1 in	+0.000/-0.004"	+0.000/-0.004"	—	2HHE1	2HHF5
	2 in	+0.000/-0.005"	+0.000/-0.005"	2HHD2	2HHE4	2HHF8
	3 in	+0.000/-0.005"	+0.000/-0.005"	2HHD5	2HHE7	2HHG2
	4 in	+0.000/-0.006"	+0.000/-0.006"	2HHD8	2HHE9	2HHG4
	4 ½ in	+0.000/-0.008"	+0.000/-0.008"	2HHD9	2HHF1	2HHG5
	5 in	+0.000/-0.008"	+0.000/-0.008"	2AGX6	2AGX8	2AGY1
	6 in	+0.000/-0.008"	+0.000/-0.008"	2AGX7	2AGX9	2AGY2
0.5 in	⅝ in	+0.000/-0.003"	+0.000/-0.003"	—	2HHH9	2HHK5
	1 in	+0.000/-0.004"	+0.000/-0.004"	2HHG6	2HHJ2	2HHK7
	1 ¼ in	+0.000/-0.004"	+0.000/-0.004"	2HHG7	2HHJ3	2HHK8
	2 in	+0.000/-0.005"	+0.000/-0.005"	2HHH1	2HHJ6	2HHL2
	3 in	+0.000/-0.005"	+0.000/-0.005"	2HHH4	2HHJ9	2HHL5
	4 in	+0.000/-0.006"	+0.000/-0.006"	2HHH7	2HHK3	2HHL8
	6 in	+0.000/-0.008"	+0.000/-0.008"	2AGY4	2AGY6	2AGY8
0.625 in	3 ½ in	+0.000/-0.006"	+0.000/-0.006"	2AVF2	2HHN6	2HHP6
0.75 in	1 in	+0.000/-0.004"	+0.000/-0.004"	2HHP8	2HHT1	2HHU3
	2 in	+0.000/-0.005"	+0.000/-0.005"	2HHR3	2HHT5	2HHU7
	5 ½ in	+0.000/-0.008"	+0.000/-0.008"	2AGZ4	2AGZ7	2AHA1
	6 in	+0.000/-0.008"	+0.000/-0.008"	2AGZ5	2AGZ8	2AHA2
1 in	2 in	+0.000/-0.005"	+0.000/-0.005"	2HHW5	2HHX6	2HHY7
	3 in	+0.000/-0.005"	+0.000/-0.005"	2HHW8	2HHX9	2HHZ1
	4 in	+0.000/-0.006"	+0.000/-0.006"	2HHX1	2HHY2	2AHA7
	5 ½ in	+0.000/-0.008"	+0.000/-0.008"	2AHA4	2AHA6	2AHA9
	5 in	+0.000/-0.008"	+0.000/-0.008"	—	2AHA5	2AHF2
1.25 in	6 in	+0.000/-0.008"	+0.000/-0.008"	—	2AHB2	2AHB6
1.5 in	3 in	+0.000/-0.005"	+0.000/-0.005"	—	2HJC5	2AHC1
1.75 in	6 in	+0.000/-0.008"	+0.000/-0.008"	2AHC4	2AHC5	2AHC8
2 in	4 in	+0.000/-0.006"	+0.000/-0.006"	2HJE1	2AHD2	2AHD8
	5 in	+0.000/-0.008"	+0.000/-0.005"	2AHC9	2AHD3	2AHD9
	6 in	+0.000/-0.008"	+0.000/-0.008"	2AHD1	2AHD4	2AHE1
2.5 in	3 in	+0.000/-0.005"	+0.000/-0.005"	2HJE5	2AHE3	2AHE7
	3 ½ in	+0.000/-0.006"	+0.000/-0.006"	2HJE6	2AHE4	2AHE8
	5 in	+0.000/-0.008"	+0.000/-0.008"	2AHE2	2AHE6	2AHF1
3.5 in	5 in	+0.000/-0.008"	+0.000/-0.008"	2HJF1	2HJF2	2HJF3
4 in	6 in	+0.000/-0.008"	+0.000/-0.008"	2AHG1	2AHG2	2AHG3



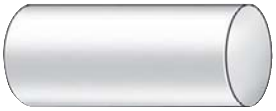
Tool Steel—Drill Rods

- Length: 36"
- Length tolerance: +.125"/-.000"
- Standards: UNS T30102, SAE J437, ASTM A-681-94, FEDERAL QQT-570 REV C

A2 Grade is used to replace 01 Grade for applications requiring safer heat treatment, less distortion during hardening, and greater wear resistance. Exhibit less movement during heat treating. 01 Grade provides dimensional stability (low movement) during hardening and high hardness response from low quenching temperatures. W1 Grade are used where a simple heat treatment is more important than wear resistance or high dimensional stability during heat treating.

Note: Additional sizes and grades are available; call 1-800-GRAINGER (472-4643).

Fractional Size	Decimal Equivalent	Dia. Tolerance	Item No.
A2 Grade - Air Hardening			
⅛"	0.125 in	+/-0.0005 in	33J238
½"	0.5 in	+/-0.001 in	33J236
⅝"	0.625 in	+/-0.001 in	33J246
¾"	0.75 in	+/-0.001 in	33J241
1"	1 in	+/-0.001 in	33J234
01 Grade - Oil Hardening			
⅛"	0.125 in	+/-0.0005 in	33J294
3/16"	0.1875 in	+/-0.0005 in	33J307
¼"	0.25 in	+/-0.0005 in	33J293
5/16"	0.3125 in	+/-0.0005 in	33J311
⅜"	0.375 in	+/-0.0005 in	33J310
7/16"	0.4375 in	+/-0.0005 in	33J315
½"	0.5 in	+/-0.001 in	33J292
9/16"	0.5625 in	+/-0.001 in	33J319
⅝"	0.625 in	+/-0.001 in	33J314
11/16"	0.6875 in	+/-0.001 in	33D709
¾"	0.75 in	+/-0.001 in	33J309
⅞"	0.875 in	+/-0.001 in	33J318
1"	1 in	+/-0.001 in	33J290
	0.9843 in	+/-0.001 in	41NR83
1½"	1.5 in	+/-0.001 in	33J295
W1 Grade - Water Hardening			
⅛"	0.125 in	+/-0.0005 in	33J352
5/32"	0.1562 in	+/-0.0005 in	33J363
¼"	0.25 in	+/-0.0005 in	33J351
5/16"	0.3125 in	+/-0.0005 in	33J362
⅜"	0.375 in	+/-0.0005 in	33J361
½"	0.5 in	+/-0.001 in	33J350
⅝"	0.625 in	+/-0.001 in	33J365
¾"	0.75 in	+/-0.001 in	33J360
1"	1 in	+/-0.001 in	33J348



Carbon Steel—Cylindrical Rods

- 1045 alloy meets ASTM A108, UNS# G10450, AISI 1045
- 1018 alloy meets ASTM 108, UNS# G10180, AISI 1018
- 1144 alloy meets ASTM A311, UNS# G11440
- 12L14 alloy meets ASTM 108, UNS# G12144
- 1215 alloy meets ASTM 108, UNS# G12150, AISI 1215
- Length tolerance: 1-ft. ±1.000", 3-ft. ±3.000", 6-ft. ±6.000"

Precision 1045 centerless rounds have highly consistent dimensions and guaranteed tolerances. Machine-ready material increases throughput by helping to minimize preparation and setup times.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Dia.	Dia. Tolerance	1-FT. LENGTH Item No.	3-FT. LENGTH Item No.	6-FT. LENGTH Item No.
1045 Carbon Steel				
1"	+0.0000/-0.0010 in	3ANL4	3ANG2	3GTC3
1¼"	+0.0000/-0.0010 in	3ANL3	3ANG1	3GTC2
1½"	+0.0000/-0.0010 in	3ANL2	3ANF9	3GTC1
1¾"	+0.0000/-0.0015 in	3ANL1	—	3GTA9
2"	+0.0000/-0.0015 in	3ANK9	3GTJ9	3GTA8
2½"	+0.0000/-0.0015 in	3ANK7	3GTJ7	3GTA6
3"	+0.0000/-0.0020 in	3ANK5	3GTJ5	3GTA4
1018 Carbon Steel				
¼"	+0.000/-0.002 in	2HJF4	—	2HJK5
⅜"	+0.000/-0.002 in	2HJF5	2HJH6	2HJK6
½"	+0.000/-0.002 in	2HJF6	2HJH7	2HJK7
⅝"	+0.000/-0.002 in	2HJF7	2HJH8	2HJK8
¾"	+0.000/-0.002 in	2HJF8	2HJH9	2HJK9
⅞"	+0.000/-0.002 in	—	2HJJ1	2HJL1
1"	+0.000/-0.002 in	2HJG1	2HJJ2	2HJL2
1¼"	+0.000/-0.002 in	2HJG3	2HJJ4	2HJL4
1½"	+0.000/-0.002 in	2HJG5	2HJJ6	2HJL6
2"	+0.000/-0.003 in	2HJG8	2HJJ9	2HJL9
2¼"	+0.000/-0.003 in	2HJH1	2HJK2	2AHJ3
2½"	+0.000/-0.003 in	2HJH3	2HJK4	2AHJ5
3"	+0.000/-0.004 in	2AHG4	2AHH4	2AHJ8
3½"	+0.000/-0.004 in	2AHG6	2AHH6	2AHK1
4"	+0.000/-0.004 in	2AHG8	2AHH8	2AHK3
5"	+0.000/-0.005 in	2AHH1	2AHJ1	—
1144 Carbon Steel				
½"	+0.000/-0.003 in	—	—	2HKC3
⅝"	+0.000/-0.003 in	—	—	2HKC4
¾"	+0.000/-0.003 in	—	—	2HKC5
12L14 Carbon Steel				
¼"	+0.000/-0.002 in	—	—	2HJT4
⅜"	+0.000/-0.002 in	—	—	2HJT5
½"	+0.000/-0.002 in	—	—	2HJT6
⅝"	+0.000/-0.002 in	—	—	2HJT7
¾"	+0.000/-0.002 in	—	—	2HJT8
1"	+0.000/-0.002 in	2HJP1	2HJR3	2HJU1
1¾"	+0.000/-0.003 in	2HJP6	—	2HJU6
2"	+0.000/-0.003 in	2HJP7	—	2HJU7
2½"	+0.000/-0.003 in	2HJP9	2HJT2	—
2¾"	+0.000/-0.004 in	2HJR1	2HJT3	2AHK9

Tool Steel—Flat Stock

- AISI 4140, ASTM A108, ASTM A29, UNS G41400

Note: Additional sizes and grades are available; call 1-800-GRAINGER (472-4643).

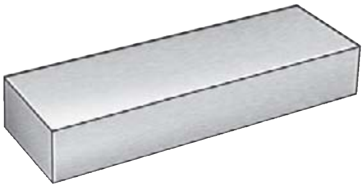
W	Thickness	Length Tolerance	Width Tolerance	Thickness Tolerance	Item No.
4140 Alloy Steel					
1 in	¼"	+/-1.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKD6
	¼"	+/-3.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKD9
	¼"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKE3
	⅜"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKF1
	½"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKG6
	1"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.009 in	2HKK3
1.5 in	¾"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.007 in	2HKJ2
	1"	+/-3.000 in	+0.000/-0.009 in	+0.000/-0.009 in	2HKJ8
	1"	+/-6.000 in	+0.000/-0.009 in	+0.000/-0.009 in	2HKK4
2 in	¼"	+/-0.125 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKE1
	¼"	+/-1.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKD7
	¼"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKE4
	⅜"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKE9
	⅜"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKF2
	½"	+/-1.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKF5
	½"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKG8
	1"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKJ9
	1½"	+/-1.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKK8
	1½"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKL1
	1½"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKL3
3 in	¼"	+/-1.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKD8
	¼"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKE2
	¼"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKE5
	½"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.007 in	2HKG4
	1"	+/-3.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKK1
	1"	+/-6.000 in	+0.000/-0.011 in	+0.000/-0.009 in	2HKK6
4 in	½"	+/-3.000 in	+0.000/-0.012 in	+0.000/-0.007 in	2HKG5
	¾"	+/-3.000 in	+0.000/-0.012 in	+0.000/-0.007 in	2HKJ1
	¾"	+/-6.000 in	+0.000/-0.012 in	+0.000/-0.007 in	2HKJ5
	1"	+/-6.000 in	+0.000/-0.012 in	+0.000/-0.009 in	2HKK7
	1½"	+/-6.000 in	+0.000/-0.012 in	+0.000/-0.009 in	2HKL4

Alloy Steel Ball Stock

- +/-0.0001 in Dia. tollerance

Used in industrial applications such as mechanical motion technology, where high load capacity and fine surface finishes are required.

Dia.	Min. Crush Load	Item No.
52100 High Carbon Chrome Steel		
1⁄16 in	275 lb	4RJF1
5⁄64 in	345 lb	4RJF2
3⁄32 in	618 lb	4RJF3
1⁄8 in	1,100 lb	4RJF4
9⁄64 in	1,392 lb	4RJF5
5⁄32 in	1,718 lb	4RJF6
3⁄16 in	2,475 lb	4RJF7
7⁄32 in	3,368 lb	4RJF8
1⁄4 in	4,400 lb	4RJF9
9⁄32 in	5,568 lb	4RJG1
5⁄16 in	6,875 lb	4RJG2
11⁄32 in	8,318 lb	4RJG3
3⁄8 in	9,900 lb	4RJG4
7⁄16 in	13,475 lb	4RJG5
1⁄2 in	17,600 lb	4RJG6
9⁄16 in	20,250 lb	4RJG7
5⁄8 in	25,000 lb	4RJG8
3⁄4 in	36,000 lb	4RJG9
1 in	64,000 lb	4RJH1
1.5 mm	275 lb	49AE68
2.0 mm	275 lb	49AE69
3.0 mm	800 lb	49AE70
4.0 mm	1,718 lb	49AE71
5.0 mm	2,475 lb	49AE72
6.0 mm	4,050 lb	49AE73
7.0 mm	5,472 lb	49AE74
8.0 mm	6,875 lb	49AE75
9.0 mm	8,318 lb	49AE76
10.0 mm	9,600 lb	49AE77
11.0 mm	13,416 lb	49AE78
12.0 mm	13,475 lb	49AE79
15.0 mm	17,600 lb	49AE80
20.0 mm	36,000 lb	49AE81



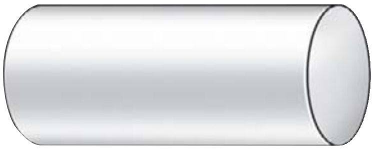
Alloy Steel Blanks & Flat Stock

After being softened in the annealed heat-treatment process, **Flat Stock** alloy steel is relatively easy to machine and responds well to heat-treatment. It has good strength, toughness, ductility, and resistance to wear and fatigue. Suitable applications include general-purpose machining, blades, brakes, dies, fixtures, tool holders, bolts, piston rods, and axles. **Blank stock** has been heat-treated for strength and hardness while maintaining reasonable toughness. This helps make it optimal for machining and precision applications of metal parts and products.

Thickness	W	6 ft Item No.	12 in Item No.	36 in Item No.
Flat Stock				
1⁄4"	1 in	2HKE3	2HKD6	2HKD9
	2 in	2HKE4	2HKD7	2HKE1
	3 in	2HKE5	2HKD8	2HKE2
3⁄8"	1 in	2HKF1	2HKE6	—
	2 in	2HKF2	—	2HKE9
1⁄2"	1 in	2HKG6	—	2HKF9
	1.5 in	—	2HKF4	2HKG1
	2 in	2HKG8	—	—
	2.5 in	2HKG9	2HKF6	2HKG3
	3 in	—	2HKF7	2HKG4
3⁄4"	1.5 in	2HKJ2	2HKH3	2HKH7
	2 in	2HKJ3	2HKH4	2HKH8
	3 in	2HKJ4	2HKH5	2HKH9
	4 in	2HKJ5	2HKH6	2HKJ1
1"	1.5 in	2HKK4	—	2HKJ8
	3 in	2HKK6	2HKJ7	2HKK1
1 1⁄2"	2 in	2HKL3	2HKK8	2HKL1
	4 in	2HKL4	2HKK9	2HKL2

Thickness	W	L	Item No.
Blank Stock			
1⁄4"	4.0 in	11 3⁄4 in	1UXF8
3⁄8"	2.0 in	11 3⁄4 in	1UXG2
	4.0 in	11 3⁄4 in	1UXG3
1⁄2"	2.0 in	11 3⁄4 in	1UXG5
	4.0 in	11 3⁄4 in	1UXG6
	6.0 in	5 3⁄4 in	1UXG8
	12.0 in	11 3⁄4 in	1UXG4
3⁄4"	2.0 in	11 3⁄4 in	1UXH4
	4.0 in	11 3⁄4 in	1UXH5
1"	4.0 in	11 3⁄4 in	1UXH7

Alloy Steel Rod Stock



4140 cold-finished alloy steel is suitable when greater toughness and wear-resistance is needed for applications including, but not limited to, ejectors, tooling, cams, collars, bolts, axels, rods, and machinery parts and components. **8620 cold-finished alloy steel** is ideal for applications such as fasteners, bearings, gears, shafts and other machine parts.

Dia.	L	Dia. Tolerance	Length Tolerance	Finish	Item No.
Alloy 4140 (Annealed), Cold Drawn					
5⁄8"	6 ft	+0.000/-0.005 in	+/-6.000 in	Unpolished	2HKT8
3⁄4"	3 ft	+0.000/-0.005 in	+/-3.000 in		2HKR4
	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKT9
7⁄8"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU1
1"	1 ft	+0.000/-0.005 in	+/-1.000 in		2HKN6
	3 ft	+0.000/-0.005 in	+/-3.000 in		2HKR6
	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU2
1 1⁄4"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU3
1 3⁄8"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU4
1 1⁄2"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU5
2 3⁄4"	3 ft	+0.000/-0.007 in	+/-3.000 in		2HKT6
3"	6 ft	+0.000/-0.007 in	+/-6.000 in		2AHR9
4"	4 ft	+0.000/-0.007 in	+/-6.000 in		2AHT2
Alloy 4140 (Heat Treated), Cold Drawn					
2"	6 ft	+0.000/-0.007 in	+/-6.000 in	Unpolished	2KUH9
3"	6 ft	+0.000/-0.008 in	+/-6.000 in		2AHU2

Dia.	L	Dia. Tolerance	Length Tolerance	Finish	Item No.
Alloy 8620, Cold Drawn					
3⁄4"	3 ft	+0.000/-0.003 in	+/-3.000 in	Unpolished	2KUK1
	6 ft	+0.000/-0.003 in	+/-6.000 in		2KUK9
1"	6 ft	+0.000/-0.003 in	+/-6.000 in		2KUL1
1 1⁄2"	1 ft	+0.000/-0.003 in	+/-1.000 in		2KUJ2
2"	6 ft	+0.000/-0.004 in	+/-6.000 in		2KUL5
2 1⁄4"	6 ft	+0.000/-0.004 in	+/-6.000 in		2ARD9
3"	3 ft	+0.000/-0.005 in	+/-3.000 in		2AHU7
4"	6 ft	+0.000/-0.005 in	+/-6.000 in		2ARE4
Precision Centerless Rounds - Alloy 4140 (Heat Treated), Cold Drawn					
1"	1 ft	+0.0000/-0.0010 in	+/-1.000 in	Turned, Ground, And Polished	3ANN7
	3 ft	+0.0000/-0.0010 in	+/-3.000 in		3ANH5
	6 ft	+0.0000/-0.0010 in	+/-6.000 in		3GTG5
1 1⁄4"	1 ft	+0.0000/-0.0010 in	+/-1.000 in		3ANN8
1 1⁄2"	1 ft	+0.0000/-0.0010 in	+/-1.000 in		3ANP7
	6 ft	+0.0000/-0.0010 in	+/-6.000 in		3GTH5
1 3⁄4"	3 ft	+0.0000/-0.0015 in	+/-3.000 in		3ANH7
2"	1 ft	+0.0000/-0.0015 in	+/-1.000 in		3ANP1

Stainless Steel Information

These low-maintenance materials are often used in applications where corrosion resistance is critical. Stainless steels have a higher resistance to rust in many natural and man-made environments; however, it is important to use the appropriate grade of steel regarding strength, hardness, and workability requirements. See page 2188 for Stainless Steel Perforated Sheets.

300 SERIES—AUSTENITIC CHROMIUM-NICKEL ALLOYS

Type 302—Same corrosion resistance as 304, with slightly higher strength due to additional carbon.

Type 303—Free-machining version of 304, via addition of sulfur and phosphorus.

Type 304—The most-common grade; the classic 18/8 stainless steel. Offers excellent machining and welding characteristics. Widely accepted in dairy, beverage, and food product industries where sanitation and cleanliness are essential.

Type 316—The second most-common grade (after 304). Also known as marine-grade stainless steel, due to its increased resistance to chloride corrosion (compared to 304). It is resistant to the damaging effects of salts, reducing acids, and atmospheric and general corrosive conditions. For food and surgical stainless steel uses.

400C SERIES—FERRITIC AND MARTENISTIC CHROMIUM ALLOYS

Type 416—Easy to machine due to additional sulfur.

Type 430—Good formability, but with reduced temperature and corrosion resistance.

Type 440—A higher grade of cutlery steel, with more carbon, allowing better edge retention when properly heat treated. Can be hardened to above Rockwell 55 hardness.

600 SERIES—MARTENISTIC PRECIPITATION HARDENING ALLOYS

Type 630—Most common PH stainless; better known as 17-4 (17% chromium, 4% nickel).

Stainless Steel Comparison Chart

Material	Tensile Strength* (psi)	Yield Strength* (psi)	Hardness*	Corrosion Resistance	Formability	Machinability	Weldability
Type 302	N/A	40,000	N/A	Good	Not Recommended	Good	Not Recommended
Type 303	90,000	35,000	160 (BHN)	Fair	Not Recommended	Excellent	Not Recommended
Type 304/304L	70,000	25,000	160 (BHN)	Good	Excellent	Good	Good
Type 316	81,900	30,000	160 (BHN)	Excellent	Excellent	Good	Good
Type 416	75,000	40,000	155 (BHN)	Poor	Not Recommended	Excellent	Not Recommended
Type 430	N/A	30,000	N/A	Good	Good	Good	Good
Type 440C	110,000	65,000	230 (BHN)	Poor	Poor	Fair	Poor
Type 17-4 PH	150,000	110,000	Max. 38 (Rc)	Good	Good	Fair	Good

*** Typical levels @ 1" dia.**

Stainless Steel Rod Stock

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

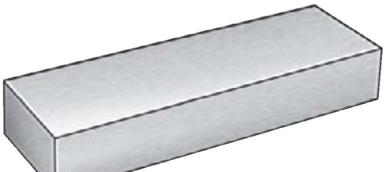
Dia.	Dia. Tolerance	1 FT. LENGTH* Item No.	3 FT. LENGTH† Item No.	6 FT. LENGTH‡ Item No.
Type 303 - Unpolished/Annealed				
Meets standards AISI 303, AMS 5640 T Type 1, ASTM A484, ASTM A582, UNS# S30300				
1/4"	+/-0.0015 in	—	—	2EXC8
5/16"	+/-0.0015 in	—	—	2EXC9
3/8"	+/-0.0015 in	—	—	2EXD1
1/2"	+/-0.002 in	—	2EXB1	2EXD2
5/8"	+/-0.002 in	—	—	2EXD3
Meets standards AISI 303, AMS 5640 T Type 1, ASTM A484, ASTM A582, UNS S30300				
5/8"	+/-0.002 in	2EWZ4	2EXB2	—
3/4"	+/-0.002 in	2EWZ5	2EXB3	2EXD4
7/8"	+/-0.002 in	2EWZ6	2EXB4	2EXD5
1"	+/-0.0025 in	2EWZ7	2EXB5	2EXD6
1 1/8"	+/-0.0025 in	2EWZ8	2EXB6	2EXD7
1 1/4"	+/-0.0025 in	2EWZ9	2EXB7	2EXD8
1 3/8"	+/-0.0025 in	2EXA1	2EXB8	2EXD9
1 1/2"	+/-0.003 in	2EXA2	2EXB9	2EXE1
1 5/8"	+/-0.003 in	2EXA3	2EXC1	2EXE2
1 3/4"	+/-0.003 in	2EXA4	2EXC2	2EXE3
2"	+/-0.003 in	2EXA5	2EXC3	2EXE4
2 1/4"	+/-0.003 in	2EXA6	2EXC4	—
2 1/2"	+/-0.003 in	2EXA7	2EXC5	—
2 3/4"	+/-0.003 in	2EXA8	2EXC6	—
3"	+/-0.003 in	2EXA9	—	—
Meets standards ASTM A582				
1/8"	+/-0.0015 in	—	—	2EXC7
2 1/4"	+/-0.003 in	—	—	1ZDF4
2 1/2"	+/-0.003 in	—	—	1ZDF5
2 3/4"	+/-0.003 in	—	—	1ZDF6
3"	+/-0.003 in	—	1ZDF3	1ZDF7
Type 304 - Unpolished/Annealed				
Meets standards AISI 304 304L, AMS 5639, AMS 5647, ASTM A182, ASTM A479, UNS# S30400 S30403				
3/8"	+/-0.0015 in	—	—	2EXJ5
1/2"	+/-0.002 in	—	2EXH3	2EXJ6
5/8"	+/-0.002 in	—	2EXH4	2EXJ7
3/4"	+/-0.002 in	—	2EXH5	2EXJ8
1"	+/-0.0025 in	—	—	2EXK1
Meets standards AMS 5639, ASTM A276, ASTM A479				
3/4"	+/-0.002 in	2EXG3	—	—
7/8"	+/-0.002 in	2EXG4	2EXH6	2EXJ9
1"	+/-0.0025 in	2EXG5	2EXH7	—
1 1/4"	+/-0.0025 in	2EXG6	2EXH8	2EXK2
1 3/8"	+/-0.0025 in	2EXG7	2EXH9	2EXK3
1 1/2"	+/-0.003 in	2EXG8	2EXJ1	2EXK4
1 5/8"	+/-0.003 in	2EXG9	2EXJ2	2EXK5
1 3/4"	+/-0.003 in	2EXH1	2EXJ3	2EXK6
2"	+/-0.003 in	2EXH2	2EXJ4	2EXK7
Type 316 - Unpolished/Annealed				
Meets standards AISI 316 316L, AMS 5648, AMS 5653, ASTM A182, ASTM A479, UNS# S31600 S31603				
3/8"	+/-0.0015 in	—	3ANH3	3GTD4
1/2"	+/-0.002 in	3ANN6	—	3GTD5
5/8"	+/-0.002 in	—	—	3GTC4
3/4"	+/-0.002 in	—	—	3GTC5
1"	+/-0.0025 in	—	—	3GTC6
Meets standards AMS 5648, ASTM A276, ASTM A479				
3/8"	+/-0.0015 in	3ANN5	—	—
1/2"	+/-0.002 in	—	3ANH4	—
5/8"	+/-0.002 in	3ANL5	3ANG3	—
3/4"	+/-0.002 in	3ANL6	3ANG4	—
7/8"	+/-0.002 in	3ANP6	3ANJ4	3GTH4
1"	+/-0.0025 in	3ANL7	3ANG5	—
1 1/4"	+/-0.0025 in	3ANL8	3ANG6	3GTC7
1 3/8"	+/-0.0025 in	3ANL9	3ANG7	3GTC8
1 1/2"	+/-0.003 in	3ANN1	3ANG8	3GTC9
1 5/8"	+/-0.003 in	3ANN2	3ANG9	3GTD1
1 3/4"	+/-0.003 in	3ANN3	3ANH1	3GTD2
2"	+/-0.003 in	3ANN4	3ANH2	3GTD3
Type 416 - Unpolished/Annealed				
Meets standards AMS 5610, ASTM A314, ASTM A582				
1/2"	+/-0.002 in	—	2EXL5	—
3/4"	+/-0.002 in	2EXK8	2EXL6	2AVA8
1"	+/-0.0025 in	2EXK9	2EXL7	2AVA9
1 1/4"	+/-0.0025 in	2EXL1	2EXL8	2AVB1
1 1/2"	+/-0.003 in	2EXL2	2EXL9	2AVB2
1 3/4"	+/-0.003 in	2EXL3	—	2AVB3
2"	+/-0.003 in	2EXL4	2AVA6	2AVB4
Meets standards AMS 5610, ASTM A582				
1/2"	+/-0.002 in	—	—	2AVA7
Meets standards ASTM A582				
1 3/4"	+/-0.003 in	—	2AVA5	—
Type 440C - Unpolished/Annealed				
Meets standards AMS 5630, ASTM A276, ASTM A580				
1/2"	+/-0.002 in	2EXN1	2EXN9	2EXP5
1"	+/-0.0025 in	2EXN2	—	2EXP6
1 1/2"	+/-0.003 in	2EXN3	2EXP2	2EXP7
2"	+/-0.003 in	2EXN4	2EXP3	—
2 1/2"	+0.047/-0.000 in	2EXN5	2EXP4	—
3"	+0.047/-0.000 in	2EXN6	—	—
3 1/2"	+0.047/-0.000 in	2EXN7	—	—
4"	+0.062/-0.000 in	2EXN8	—	—
Meets standards ASTM A276				
2"	+/-0.003 in	—	—	1ZDG2
2 1/2"	+0.047/-0.000 in	—	—	1ZDG3
3"	+0.047/-0.000 in	—	1ZDF8	1ZDG4
3 1/2"	+0.047/-0.000 in	—	1ZDF9	1ZDG5
4"	+0.062/-0.000 in	—	1ZDG1	1ZDG6

Dia.	Dia. Tolerance	1 FT LENGTH‡‡ Item No.	1 FT. LENGTH‡‡ Item No.	3 FT. LENGTH‡‡ Item No.
Type 302 - Mill/				
Meets standards ASTM A313				
1/16 in	+/-0.002 in	48KU21	—	—
3/32 in	+/-0.002 in	—	48KU25	—
1/8 in	+/-0.002 in	—	48KU23	—
Type 303 - Mill/				
Meets standards ASTMA581				
1/4 in	+/-0.003 in	—	—	16NJ05
5/16 in	+/-0.003 in	—	—	16NJ06
3/8 in	+/-0.003 in	—	—	16NJ07
Type 303 - Mill/Annealed				
Meets standards ASTM A320, ASTM A582				
3/16 in	+/-0.002 in	48KU24	—	—
1/4 in	+/-0.002 in	—	48KU29	—
5/16 in	+/-0.002 in	48KU27	—	—
3/8 in	+/-0.002 in	—	48KU26	—
7/16 in	+/-0.002 in	48KU28	—	—
1/2 in	+/-0.002 in	48KU22	—	—

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ‡‡ ±0.032".*

Stainless Steel—Stock

- Width tolerance: +0.094"/-0.031"
- Length tolerance: ±1.000"
- Length: 6 ft.
- Meets ASTM A240 and A480 standards

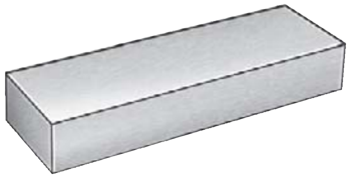


Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Width	Thickness Tolerance	Item No.
304 Alloy		
0.125 in Thickness		
0.5 in	+/-0.010"	4YTX6
0.625 in	+/-0.010"	4YTX7
0.75 in	+/-0.010"	4YTX8
0.188 in Thickness		
0.5 in	+0.050/-0.010"	4YTY7
0.25 in Thickness		
0.5 in	+0.050/-0.010"	4YTZ6
0.75 in	+0.050/-0.010"	4YTZ7
0.375 in Thickness		
0.75 in	+0.60/-0.010"	4YUD4
0.5 in Thickness		
0.75 in	+0.60/-0.010"	4YUE6
0.125 in Thickness		
1 in	+/-0.010"	4YTX9
1.25 in	+/-0.010"	4YTY1
1.5 in	+/-0.010"	4YTY2
0.188 in Thickness		
1 in	+0.050/-0.010"	4YTY8
1.25 in	+0.050/-0.010"	4YTY9
1.5 in	+0.050/-0.010"	4YTZ1
0.25 in Thickness		
1 in	+0.050/-0.010"	4YTZ8
1.25 in	+0.050/-0.010"	4YTZ9
1.5 in	+0.050/-0.010"	4YUA1
1.75 in	+0.050/-0.010"	4YUA2
0.313 in Thickness		
1 in	+0.050/-0.010"	4YUD1
0.375 in Thickness		
1 in	+0.60/-0.010"	4YUD5
1.25 in	+0.60/-0.010"	4YUD6
1.5 in	+0.60/-0.010"	4YUD7
1.75 in	+0.60/-0.010"	4YUD8
0.5 in Thickness		
1 in	+0.60/-0.010"	4YUE7
1.25 in	+0.60/-0.010"	4YUE8
1.5 in	+0.60/-0.010"	4YUE9
1.75 in	+0.60/-0.010"	4YUF1
0.625 in Thickness		
1 in	+0.60/-0.010"	4YUF9
1.5 in	+0.60/-0.010"	4YUG1
0.75 in Thickness		
1 in	+0.60/-0.010"	4YUG6
1.5 in	+0.050/-0.010"	4YUG7
0.125 in Thickness		
2 in	+/-0.010"	4YTY3
0.188 in Thickness		
2 in	+0.050/-0.010"	4YTZ2
2.5 in	+0.050/-0.010"	4YTZ3
0.25 in Thickness		
2 in	+0.050/-0.010"	4YUA3
2.5 in	+0.050/-0.010"	4YUA4
0.313 in Thickness		
2 in	+0.050/-0.010"	4YUD2
0.375 in Thickness		
2 in	+0.60/-0.010"	4YUD9
2.5 in	+0.60/-0.010"	4YUE1
0.5 in Thickness		
2 in	+0.60/-0.010"	4YUF2
2.5 in	+0.60/-0.010"	4YUF3
0.625 in Thickness		
2 in	+0.60/-0.010"	4YUG2
2.5 in	+0.60/-0.010"	4YUG3
0.75 in Thickness		
2 in	+0.050/-0.010"	4YUG8
2.5 in	+0.050/-0.010"	4YUG9
0.188 in Thickness		
3 in	+0.050/-0.010"	4YTX5
0.125 in Thickness		
3 in	+/-0.010"	4YTY4
0.25 in Thickness		
3 in	+0.050/-0.010"	4YUA5
3.5 in	+0.050/-0.010"	4YUA6
0.375 in Thickness		
3 in	+0.60/-0.010"	4YUE2
0.5 in Thickness		
3 in	+0.60/-0.010"	4YUF4
3.5 in	+0.60/-0.010"	4YUF5
0.625 in Thickness		
3 in	+0.60/-0.010"	4YUG4
0.75 in Thickness		
3 in	+0.050/-0.010"	4YUH1
0.125 in Thickness		
4 in	+/-0.010"	4YTY5
0.188 in Thickness		
4 in	+0.050/-0.010"	4YTZ4
0.25 in Thickness		
4 in	+0.050/-0.010"	4YUA7
0.375 in Thickness		
4 in	+0.60/-0.010"	4YUE3
0.5 in Thickness		
4 in	+0.60/-0.010"	4YUF6
0.75 in Thickness		
4 in	+0.050/-0.010"	4YUH2
0.25 in Thickness		
5 in	+0.050/-0.010"	4YUA8
0.375 in Thickness		
5 in	+0.60/-0.010"	4YUE4
0.5 in Thickness		
5 in	+0.60/-0.010"	4YUF7
0.625 in Thickness		
5 in	+0.60/-0.010"	4YUG5
0.75 in Thickness		
5 in	+0.050/-0.010"	4YUH3
0.125 in Thickness		
6 in	+/-0.010"	4YTY6
0.188 in Thickness		
6 in	+0.050/-0.010"	4YTZ5
0.25 in Thickness		
6 in	+0.050/-0.010"	4YUA9
0.375 in Thickness		
6 in	+0.60/-0.010"	4YUE5
0.5 in Thickness		
6 in	+0.60/-0.010"	4YUF8
0.75 in Thickness		
6 in	+0.050/-0.010"	4YUH4
1 in Thickness		
1.25 in	+0.050/-0.010"	4YUH5
1.5 in	+0.050/-0.010"	4YUH6
2 in	+0.050/-0.010"	4YUH7
2.5 in	+0.050/-0.010"	4YUH8
3 in	+0.050/-0.010"	4YUH9
4 in	+0.050/-0.010"	4YUJ1
5 in	+0.050/-0.010"	4YUJ2
316 Alloy		
0.25 in Thickness		
0.5 in	+0.050 /-0.010"	4YTU6
0.188 in Thickness		
1 in	+0.050 /-0.010"	4YTU5
0.25 in Thickness		
1 in	+0.050 /-0.010"	4YTU7
1.5 in	+0.050 /-0.010"	4YTU8
0.375 in Thickness		
1 in	+0.060/-0.010"	4YTV5
1.5 in	+0.060/-0.010"	4YTV6
0.125 in Thickness		
1 in	+0.060/-0.010"	4YTW2
1.5 in	+0.060/-0.010"	4YTW3
0.75 in Thickness		
1 in	+0.060/-0.010"	4YTW8
1.5 in	+0.060/-0.010"	4YTW9
0.25 in Thickness		
2 in	+0.050 /-0.010"	4YTU9
2.5 in	+0.050 /-0.010"	4YTV1
0.375 in Thickness		
2 in	+0.060/-0.010"	4YTV7
2.5 in	+0.060/-0.010"	4YTV8
0.5 in Thickness		
2 in	+0.060/-0.010"	4YTW4
2.5 in	+0.060/-0.010"	4YTW5
0.75 in Thickness		
2 in	+0.060/-0.010"	4YTX1
0.25 in Thickness		
3 in	+0.050 /-0.010"	4YTV2
0.375 in Thickness		
3 in	+0.060/-0.010"	4YTV9
0.5 in Thickness		
3 in	+0.060/-0.010"	4YTW6
0.75 in Thickness		
3 in	+0.060/-0.010"	4YTX2
0.25 in Thickness		
4 in	+0.050 /-0.010"	4YTV3
0.375 in Thickness		
4 in	+0.060/-0.010"	4YTW1
0.5 in Thickness		
4 in	+0.060/-0.010"	4YTW7
0.75 in Thickness		
4 in	+0.060/-0.010"	4YTX3
0.25 in Thickness		
5 in	+0.050 /-0.010"	4YTV4
1 in Thickness		
2 in	+0.060/-0.010"	4YTX4

Stainless Steel—Precision Ground Blanks

Precision blanks have highly consistent dimensions with guaranteed tolerances. Machine-ready materials increase throughput to help minimize preparation and setup times. Type 304 meets ASTM A240 standard. Type 316 meet ASTM A240 and ASTM A167 standards.



Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	2.0 in x 12.0 in† Item No.	4.0 in x 12.0 in† Item No.	6.0 in x 12.0 in† Item No.	8.0 in x 12.0 in† Item No.	12.0 in x 12.0 in† Item No.	12.0 in x 18.0 in‡ Item No.
Type 304 - Mill/Annealed						
0.25 in	1NZR1	1NZR3	1NZR4	1NZR5	1NZP8	—
0.375 in	1NZR8	1NZT1	1NZT2	1NZT3	1NZR6	—
0.5 in	1NZT6	1NZT8	1NZT9	1NZU1	1NZT4	—
0.625 in	1NZU4	1NZU6	1NZU7	1NZU8	1NZU2	—
0.75 in	1NZV2	1NZV4	1NZV5	1NZV6	1NZU9	—
1.0 in	1NZV9	1NZW2	1NZW3	1NZW4	1NZV7	—
Type 316 - Mill/Annealed						
0.25 in	1NZX6	1NZX8	1NZX9	1NZY1	1NZX2	1NZX3
0.375 in	1NZY6	1NZY8	1NZY9	1NZZ1	1NZY2	1NZY3
0.5 in	1NZZ6	1NZZ8	1NZZ9	1PAA1	1NZZ2	1NZZ3
0.625 in	1PAA7	1PAB2	1PAB3	1PAB4	1PAA2	1PAA3
0.75 in	1PAB9	1PAC2	1PAC3	1PAC4	1PAB5	1PAB6
1.0 in	1UXE5	1UXE7	1UXE8	1UXE9	1PAC5	1UXE2

Thickness	12.0 in x 24.0 in‡ Item No.	18.0 in x 18.0 in‡ Item No.	24.0 in x 24.0 in‡ Item No.
Type 304 - Mill/Annealed			
0.25 in	1NZP9	—	1NZR2
0.375 in	1NZR7	—	1NZR9
0.5 in	1NZT5	—	1NZT7
0.625 in	1NZU3	—	1NZU5
0.75 in	1NZV1	—	1NZV3
1.0 in	1NZV8	—	1NZW1
Type 316 - Mill/Annealed			
0.25 in	1NZX4	1NZX5	1NZX7
0.375 in	1NZY4	1NZY5	1NZY7
0.5 in	1NZZ4	1NZZ5	1NZZ7
0.625 in	1PAA4	1PAA5	1PAA9
0.75 in	1PAB7	1PAB8	1PAC1
1.0 in	1UXE3	1UXE4	1UXE6

Thickness†	Width†	Length†	Item No.
Type 304 - Mill/Annealed			
2.0 in	4.0 in	6.0 in	1NZW5
	4.0 in	8.0 in	1NZW6
3.0 in	3.0 in	3.0 in	1NZW7
	6.0 in	9.0 in	1NZW9
	6.0 in	12.0 in	1NZW8
4.0 in	4.0 in	4.0 in	1NZX1
Type 316 - Mill/Annealed			
2.0 in	4.0 in	6.0 in	1UXF1
	4.0 in	8.0 in	1UXF2
3.0 in	3.0 in	3.0 in	1UXF3
	6.0 in	9.0 in	1UXF5
	6.0 in	12.0 in	1UXF4
4.0 in	4.0 in	4.0 in	1UXF6
5.0 in	5.0 in	5.0 in	1UXF7

† Thickness, width, and length tolerances: ±0.002". ‡ Thickness tolerance: ±0.005"; width and length tolerances: ±0.002".

Stainless Steel—90° Angles

- Length: 7 ft.
- Leg Length tolerance: ±0.125/0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Leg Length	Finish	Temper	304 ALLOY Item No.	316 ALLOY Item No.
⅛ in Thick				
ASTM A276 and A479, Annealed				
¾ in	Mill	Hot Rolled	4YTL7	—
1 in	Mill	Hot Rolled	4YTL8	4YTJ5
1 ¼ in	Mill	Hot Rolled	4YTL9	4YTJ6
1 ½ in	Mill	Hot Rolled	4YTN1	4YTJ7
2 in	Mill	Hot Rolled	4YTN2	4YTJ8
ASTM A276 Condition A, QQ-S-763 Condition A				
1 ¼ in	Unpolished	Annealed	3DRP6	—
1 ½ in	Unpolished	Annealed	3DRP7	—
2 in	Unpolished	Annealed	3DRP8	—
3/16 in Thick				
ASTM A276 and A479, Annealed				
1 in	Mill	Hot Rolled	4YTN3	4YTJ9
1 ¼ in	Mill	Hot Rolled	4YTN4	4YTK1
1 ½ in	Mill	Hot Rolled	4YTN5	4YTK2
2 in	Mill	Hot Rolled	4YTN6	4YTK3
2 ½ in	Mill	Hot Rolled	4YTN7	4YTK4
ASTM A276 Condition A, QQ-S-763 Condition A				
1 ½ in	Unpolished	Annealed	3DRP9	—
2 in	Unpolished	Annealed	3DRR1	—
¼ in Thick				
ASTM A276 and A479, Annealed				
1 in	Mill	Hot Rolled	4YTN8	4YTK5
1 ½ in	Mill	Hot Rolled	4YTP1	4YTK7
2 in	Mill	Hot Rolled	4YTP2	4YTK8
2 ½ in	Mill	Hot Rolled	4YTP3	4YTK9
3 in	Mill	Hot Rolled	4YTP4	4YTL1
4 in	Mill	Hot Rolled	4YTP5	4YTL2
ASTM A276 Condition A, QQ-S-763 Condition A				
1 ½ in	Unpolished	Annealed	3DRR2	—
2 in	Unpolished	Annealed	3DRR3	—
⅜ in Thick				
ASTM A276 and A479, Annealed				
3 in	Mill	Hot Rolled	4YTP8	4YTL5
4 in	Mill	Hot Rolled	4YTP9	4YTL6

Find information on Stainless Steel types on page 2184.

Leather Grain

Oxford

5-SM

7-GM

3" Diamond

Engine Turn

Woodgrain

6-OM

Hammer Tone

Cambridge

Stainless Steel—Architectural Sheets

Note: For additional sizes and image detail, see Grainger.com®.

Texture	Finish	Gauge	Thickness (Decimal)	Thickness Tolerance	L	W	Item No.
Leather Grain	#4	16 ga	0.058 in	+/-0.003	24 in	24 in	**481F89**
Oxford	#4	16 ga	0.058 in	+/-0.003	48 in	48 in	**481G18**
Squares	BA	16 ga	0.058 in	+/-0.002	24 in	24 in	**481G41**
Vortex SV	Non-Directional	16 ga	0.058 in	+/-0.003	48 in	48 in	**481H21**
5-SM	#4	18 ga	0.046 in	+/-0.002	96 in	48 in	**481D82**
7-GM	#4	20 ga	0.035 in	+/-0.003	48 in	48 in	**481F18**
Sand Star	BA	20 ga	0.035 in	+/-0.003	48 in	48 in	**481G39**
T22 Onyx Black HL FPR	Hairline	20 ga	0.035 in	+/-0.002	48 in	48 in	**481G78**
T22 Prestige Gold HL FPR	Hairline	20 ga	0.035 in	+/-0.002	48 in	48 in	**481G84**
T22 Prestige Gold Mirror	Mirror	20 ga	0.035 in	+/-0.002	48 in	48 in	**481G87**
T22 Quartz Bronze HL FPR	Hairline	20 ga	0.035 in	+/-0.002	48 in	48 in	**481G90**
T22 Quartz Bronze Mirror	Mirror	20 ga	0.035 in	+/-0.004	96 in	48 in	**481G94**
Windsor	#4	20 ga	0.035 in	+/-0.002	24 in	24 in	**481H32**
3 in Diamond	#4	22 ga	0.028 in	+/-0.0015	24 in	24 in	**481D65**
Engine Turn	BA	22 ga	0.028 in	+/-0.004	24 in	24 in	**481F47**
Linen	BA	22 ga	0.028 in	+/-0.004	24 in	24 in	**481G11**
Woodgrain	#4	22 ga	0.028 in	+/-0.0015	24 in	24 in	**481H47**
6-OM	#4	24 ga	0.023 in	+/-0.0015	48 in	48 in	**481F12**
Hammer Tone	#4	24 ga	0.023 in	+/-0.0015	24 in	24 in	**481F77**
Cambridge	#4	26 ga	0.017 in	+/-0.004	24 in	24 in	**481F32**
Stucco	#4	26 ga	0.017 in	+/-0.004	48 in	48 in	**481G63**

Stainless Steel—Square Stock

- Length: 6 ft.
- Length tolerance: ±1.000"

Meet ASTM A276 and A479 standards.

Size	Width & Thickness Tolerance	304 ALLOY Item No.	316 ALLOY Item No.
0.25 in	+0.000/-0.002"	**4YTT5**	**4YTR1**
0.375 in	+0.000/-0.003"	**4YTT6**	**4YTR3**
0.5 in	+0.000/-0.004"	**4YTT7**	**4YTR4**
0.625 in	+0.000/-0.004"	**4YTT8**	**4YTR5**
0.75 in	+0.000/-0.004"	**4YTT9**	**4YTR6**
0.3125 in	+0.000/-0.003"	—	**4YTR2**
0.875 in	+0.000/-0.004"	—	**4YTR7**
1 in	+0.000/-0.004"	**4YTU1**	**4YTR8**
1.5 in	+0.000/-0.006"	**4YTU3**	**4YTT2**
1.125 in	+0.000/-0.006"	—	**4YTR9**
2 in	+0.000/-0.006"	**4YTU4**	**4YTT4**

Stainless Steel—Plates

- Width and length tolerances: ± 0.125/0.000"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Thickness Tolerance	6 in x 6 in Item No.	12 in x 12 in Item No.
Type 17-4 PH - Unpolished/Annealed Meets standards AMS 5604, ASTM A693-03, UNS# S17400			
0.188 in	+0.045/-0.010"	**2EXP8**	**2EXR3**
0.25 in	+0.045/-0.010"	**2EXP9**	**2EXR4**
0.375 in	+0.055/-0.010"	**2EXR1**	**2EXR5**
0.5 in	+0.055/-0.010"	**2EXR2**	**2EXR6**
Type 304/304L - Unpolished/Annealed Meets standards 5513H, A480, AMS 5511H, ASME SA240, ASTM A240			
0.188 in	+0.045/-0.010"	**4ZDT4**	**4ZDT5**
0.25 in	+0.045/-0.010"	**4ZDT8**	**4ZDT9**
0.375 in	+0.055/-0.010"	**4ZDU3**	**4ZDU4**
0.5 in	+0.055/-0.010"	**4ZDU7**	**4ZDU8**

Stainless Steel—Sheet Metal Strips

- Length tolerance: ±0.0625" for Mill; ±0.032" for 432BA
- Thickness tolerance: ±0.002"
- Width tolerance: ±0.005"

Offer good formability and corrosion resistance. Strips can be cut, drilled, soldered, or shaped. Meet ASTM A240 standard.

Width	Thickness	Length	Item No.
Type 430 - 432BA/Annealed			
6 in	0.012 in	12 in	**5MWR2**
	0.018 in	12 in	**5MWR3**
	0.025 in	12 in	**5MWR4**
Type 430 - Mill/Annealed			
0.5 in	0.012 in	1 ft	**48KU36**
0.75 in	0.012 in	1 ft	**48KU38**
0.5 in	0.018 in	1 ft	**48KU40**
0.75 in	0.018 in	1 ft	**48KU41**
0.5 in	0.025 in	1 ft	**48KU43**
0.75 in	0.025 in	1 ft	**48KU44**
1 in	0.012 in	1 ft	**48KU37**
	0.018 in	1 ft	**48KU39**
	0.025 in	1 ft	**48KU42**

Stainless Steel—Square Ornamental Tubing

- Length 6 ft.
- Wall thickness ±0.100"/ length tolerances: ±1.000"

Meets ASTM A554 standards.

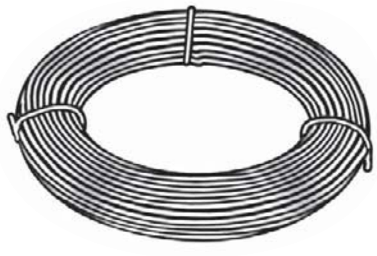
Outside Square	Inside Square	Wall Thickness	Outside Square Tolerance	Item No.
304 Alloy				
½"	3/8 in	0.065 in	+/-0.015 in	**4YUJ3**
¾"	5/8 in	0.065 in	+/-0.015 in	**4YUJ4**
1"	¾ in	0.12 in	+/-0.020 in	**4YUL5**
	27/32 in	0.083 in	+/-0.020 in	**4YUJ9**
	7/8 in	0.065 in	+/-0.015 in	**4YUJ5**
1¼"	1 1/8 in	0.065 in	+/-0.015 in	**4YUJ6**
	1 1/64 in	0.083 in	+/-0.020 in	**4YUL1**
	1 1/64 in	0.12 in	+/-0.020 in	**4YUL6**
1½"	1 3/8 in	0.065 in	+/-0.020 in	**4YUJ7**
	1 11/32 in	0.083 in	+/-0.020 in	**4YUL2**
	1 ¼ in	0.12 in	+/-0.020 in	**4YUL7**
	1 1/8 in	0.18 in	+/-0.030 in	**4YUM3**
1¾"	1 37/64 in	0.083 in	+/-0.020 in	**4YUL3**
2"	1 7/8 in	0.065 in	+/-0.020 in	**4YUJ8**
	1 27/32 in	0.083 in	+/-0.020 in	**4YUL4**
	1 ¾ in	0.12 in	+/-0.020 in	**4YUL8**
	1 41/64 in	0.18 in	+/-0.030 in	**4YUM4**
	1 ½ in	0.25 in	+/-0.030 in	**4YUM8**
2½"	2 ¼ in	0.12 in	+/-0.020 in	**4YUL9**
	2 in	0.25 in	+/-0.030 in	**4YUM9**
3"	2 ¾ in	0.12 in	+/-0.030 in	**4YUM1**
	2 ½ in	0.25 in	+/-0.030 in	**4YUN1**
6"	5 ½ in	0.25 in	+/-0.060 in	**4YUN4**

Stainless Steel Balls

- Dia. tolerance: +/-0.0005 (302 and 316 alloy)
- Dia. tolerance: +/-0.0001 (404C alloy)

Dia.	Pkg. Qty.	Item No.
302 Alloy		
1/16 in	100	**49AE83**
3/32 in	100	**4RJK3**
1/8 in	100	**4RJK4**
5/32 in	100	**4RJK5**
3/16 in	100	**4RJK6**
7/32 in	100	**4RJK7**
¼ in	100	**4RJK8**
3/8 in	25	**4RJK9**
½ in	25	**4RJL1**
316 Alloy		
3/32 in	100	**4RJL2**
1/8 in	100	**4RJL3**
5/32 in	100	**4RJL4**
3/16 in	100	**4RJL5**
7/32 in	100	**4RJL6**
¼ in	100	**4RJL7**
5/16 in	25	**4RJL8**
3/8 in	25	**4RJL9**
½ in	25	**49AE84**

Dia.	Pkg. Qty.	Item No.
440C Alloy		
1/16 in	100	**4RJH2**
5/64 in	100	**4RJH3**
3/32 in	100	**4RJH4**
1/8 in	100	**4RJH5**
9/64 in	100	**4RJH6**
5/32 in	100	**4RJH7**
3/16 in	100	**4RJH8**
7/32 in	100	**4RJH9**
¼ in	100	**4RJJ1**
9/32 in	100	**4RJJ2**
5/16 in	100	**4RJJ3**
11/32 in	50	**4RJJ4**
3/8 in	50	**4RJJ5**
7/16 in	50	**4RJJ6**
½ in	25	**4RJJ7**
9/16 in	25	**4RJJ8**
5/8 in	10	**4RJJ9**
¾ in	5	**4RJK1**
1 in	2	**4RJK2**



Stainless Steel—Wire

- Sold in 1-lb. coils
- Excellent corrosion resistance

Smooth-finish, full-hard, Type 302 wire is spring-tempered for industrial uses including wire forms, control linkages, springs, armature binding, and ceramic cutting. Comes in an easy-to-use dispenser box. Meets ASTM A555, ASTM A313, ASTM A580, and AMS 5688 standards.

Thickness	Feet (1 lb. coils) Feet per Lb.	Min. Tensile Strength (psi)	Item No.
0.006 in / 0.152mm	10,404.0	325,000	**5XB95**
0.007 in / 0.178mm	7,644.0	325,000	**5XE81**
0.008 in / 0.203mm	5,853.0	325,000	**5XE82**
0.009 in / 0.229mm	4,624.0	325,000	**5XE83**
0.010 in / 0.254mm	3,746.0	320,000	**5XE84**
0.011 in / 0.279mm	3,096.0	318,000	**5XE85**
0.012 in / 0.305mm	2,601.0	316,000	**5XE86**
0.013 in / 0.330mm	2,217.0	314,000	**5XE87**
0.014 in / 0.356mm	1,911.0	312,000	**5XE88**
0.016 in / 0.406mm	1,464.0	308,000	**5XE89**
0.018 in / 0.457mm	1,156.0	304,000	**5XE90**
0.020 in / 0.508mm	937.0	300,000	**5XE91**
0.022 in / 0.559mm	774.0	296,000	**5XE92**
0.024 in / 0.610mm	651.0	292,000	**5XE93**
0.026 in / 0.660mm	555.0	291,000	**5XE94**
0.029 in / 0.737mm	446.0	285,000	**5XE95**
0.031 in / 0.787mm	390.0	285,000	**5XE96**
0.033 in / 0.838mm	344.0	282,000	**5XE97**
0.035 in / 0.889mm	306.0	280,000	**5XE98**
0.037 in / 0.940mm	274.0	280,000	**5XE99**
0.039 in / 0.991mm	247.0	275,000	**5XU10**
0.041 in / 1.041mm	223.0	275,000	**5XU11**
0.043 in / 1.092mm	203.0	272,000	**5XU12**
0.045 in / 1.143mm	185.0	272,000	**5XU13**
0.0475 in / 1.207mm	166.0	267,000	**5XU14**
0.050 in / 1.270mm	150.0	267,000	**5XU15**
0.051 in / 1.295mm	144.0	265,000	**5XU16**
0.055 in / 1.397mm	124.0	261,000	**5XU17**
0.059 in / 1.499mm	108.0	258,000	**5XU18**
0.0625 in / 1.588mm	97.0	258,000	**5XU19**

Wire Cloth—304 Stainless Steel, Milling Grade

- 48 L x 48 W

Lighter wire diameters than standard (market) grade provide a greater percentage of open area in the screen cloth.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Mesh Size (Holes per Inch)	Opening Size	Open Area (%)	Wire Dia.	Item No.
Coarse	0.75 in	77 %	0.105 in	**3DLG8**
	1.0 in	79.7 %	0.12 in	**3DLG5**
		81.9 %	0.105 in	**3DLG6**
2 x 2	0.42 in	70.5 %	0.08 in	**3GNP6**
	0.437 in	76.4 %	0.063 in	**3GNP7**
3 x 3	0.279 in	70.1 %	0.054 in	**3GNP9**
	0.286 in	73.6 %	0.047 in	**3GNR1**
4 x 4	0.187 in	56 %	0.063 in	**3GNR2**
	0.203 in	65.9 %	0.047 in	**3GNR4**
	0.215 in	74 %	0.035 in	**3AKJ1**
6 x 6	0.12 in	51.5 %	0.047 in	**3GNR7**
	0.126 in	57.2 %	0.041 in	**3GNR8**
	0.132 in	62.7 %	0.035 in	**3GNR9**
		62.7 %	0.035 in	**3GRC6**
8 x 8	0.093 in	55.4 %	0.032 in	**3GNT4**
	0.097 in	60.2 %	0.028 in	**3GRC8**
10 x 10	0.065 in	42.3 %	0.035 in	**3GRC9**
	0.075 in	56.3 %	0.025 in	**3GNT8**
		56.3 %	0.025 in	**3GRD1**
	0.088 in	64 %	0.02 in	**3AKJ4**
12 x 12	0.051 in	37.5 %	0.032 in	**3GNU1**
	0.06 in	51.8 %	0.023 in	**3GNU3**
14 x 14	0.051 in	51 %	0.02 in	**3GNU4**
16 x 16	0.045 in	50.7 %	0.018 in	**3GNU6**
	0.0535 in	73.3 %	0.009 in	**3ALR7**
18 x 18	0.0386 in	48.3 %	0.017 in	**3GRD5**
		48.3 %	0.017 in	**3GNU7**
	0.0466 in	70.2 %	0.009 in	**3AND2**
20 x 20	0.03 in	36 %	0.02 in	**3GNU8**
	0.034 in	46.2 %	0.016 in	**3GNU9**
24 x 24	0.0277 in	44.2 %	0.014 in	**3DNT8**
	0.0342 in	67.2 %	0.0075 in	**3AND4**
		67.2 %	0.0075 in	**3ALT1**
30 x 30	0.0213 in	40.8 %	0.012 in	**3DNT9**
35 x 35	0.0176 in	33.8 %	0.011 in	**3GNV8**
40 x 40	0.015 in	36 %	0.01 in	**3AJU1**
		36 %	0.01 in	**3DNU1**
	0.0185 in	54.8 %	0.0065 in	**3ALT9**
48 x 48	0.0153 in	54.2 %	0.0055 in	**3ALU4**
60 x 60	0.0092 in	30.5 %	0.0075 in	**3GNW5**
80 x 80	0.0088 in	49.6 %	0.0037 in	**3ALW1**
150 x 150	0.0041 in	37.9 %	0.0026 in	**3GNX2**
200 x 200	0.0029 in	33.6 %	0.0021 in	**3GNX5**
	0.0034 in	46.2 %	0.0016 in	**3AJU9**
325 x 325	0.0017 in	30.5 %	0.0014 in	**3AJV2**
400 x 400	0.0015 in	36 %	0.001 in	**3GNY3**

Carbon Steel—Music Wire

- Sold in 1-lb. coils

Spring-tempered wire is used for control linkages, ceramic cutting, armature binding, wire forms, springs, and other industrial uses. Packaged in an easy-to-use pull-dispenser box, except 15V232 and 15V233 come in tubes. Meets ASTM A228 standard.

High-Carbon Steel—1085 carbon steel alloy provides high tensile strength and high fatigue resistance.

Spring Steel—Full-hard, smooth-finish 300 Series stainless steel provides excellent corrosion resistance.

Thickness	Feet (1 lb. coils) Feet per Lb.	Min. Tensile Strength (psi)	Item No.
High Carbon Steel Alloy			
0.006 in / 0.152mm	10,404.0	415,000	**3L529**
0.007 in / 0.178mm	7,644.0	407,000	**3L532**
0.008 in / 0.203mm	5,853.0	399,000	**3L534**
0.009 in / 0.229mm	4,624.0	393,000	**3L536**
0.010 in / 0.254mm	3,746.0	387,000	**3L538**
0.011 in / 0.279mm	3,096.0	382,000	**3L541**
0.012 in / 0.305mm	2,601.0	377,000	**3L543**
0.013 in / 0.330mm	2,217.0	373,000	**3L545**
0.014 in / 0.356mm	1,911.0	369,000	**3L547**
0.016 in / 0.406mm	1,464.0	362,000	**3L549**
0.018 in / 0.457mm	1,156.0	356,000	**3L552**
0.020 in / 0.508mm	937.0	350,000	**3L554**
0.022 in / 0.559mm	774.0	345,000	**3L556**
0.024 in / 0.610mm	651.0	341,000	**3L558**
0.026 in / 0.660mm	555.0	337,000	**3L561**
0.029 in / 0.737mm	446.0	331,000	**3L563**
0.031 in / 0.787mm	390.0	328,000	**3L565**
0.033 in / 0.838mm	344.0	325,000	**3L567**
0.035 in / 0.889mm	306.0	322,000	**3L569**
0.037 in / 0.940mm	274.0	319,000	**3L572**
0.039 in / 0.991mm	247.0	316,000	**3L574**
0.041 in / 1.041mm	223.0	314,000	**3L576**
0.043 in / 1.092mm	203.0	311,000	**3L578**
0.045 in / 1.143mm	185.0	309,000	**3L581**
0.047 in / 1.194mm	170.0	307,000	**3L583**
0.049 in / 1.245mm	156.0	304,000	**3L585**
0.051 in / 1.295mm	144.0	303,000	**3L587**
0.055 in / 1.397mm	124.0	300,000	**3L589**
0.059 in / 1.499mm	108.0	296,000	**3L592**
0.063 in / 1.600mm	95.0	293,000	**3L594**
Spring Steel			
0.015 in	1,666.0	365,000	**15V224**
0.020 in	937.0	350,000	**15V225**
0.025 in	600.0	341,000	**15V226**
0.032 in	366.0	327,000	**15V227**
0.039 in	248.0	318,000	**15V223**
0.047 in	171.0	306,000	**15V228**
0.055 in	122.0	300,000	**15V229**
0.062 in	96.2	293,000	**15V230**
0.078 in	61.2	282,000 - 312,000	**15V231**
0.094 in	43.0	274,000	**15V232**
0.125 in	24.0	261,000	**15V233**
0.156 in	—	300,000 to 335,000	**33HE32**
0.187 in	—	300,000 to 335,000	**33HE33**
0.218 in	—	300,000 to 335,000	**33HE34**
0.250 in	—	300,000 to 335,000	**33HE35**
0.281 in	—	300,000 to 335,000	**33HE36**

Wire Mesh—PVC Coated Galvanized

Coated welded wire can handle intensive use without stripping or peeling in industrial, cage, and marine applications.

Mesh Size	Color	Wire Dia.	Opening Size	4 ftW x 48 inL Item No.	4 ftW x 96 inL Item No.
Wire Mesh PVC Coated Galvanized					
Fine					
½ in x ½ in	Black	0.063 in	0.437 in	**49N578**	**49N580**
	Yellow	0.063 in	0.437 in	**49N588**	**49N590**
Medium					
1 in x 1 in	Black	0.08 in	0.92 in	**49N598**	**49N601**
	Black	0.105 in	0.895 in	**49N609**	**49N611**
	Yellow	0.105 in	0.895 in	**49N619**	**49N621**
Coarse					
1½ in	Yellow	0.105 in	1.395 in	—	**49N641**
	Black	0.105 in	1.395 in	**49N629**	**49N631**
2 in	Yellow	0.105 in	1.895 in	**49N659**	**49N661**
	Black	0.105 in	1.895 in	**49N649**	**49N651**

Raised

Expanded Metal Sheets

Strong, rigid sheets allow air and light to pass through. Mesh construction is easily shaped, welded, and cut. Flat sheets provide a smooth surface. Raised sheets are used in applications that require surface traction.

Overall Thickness	Trade Size	Opening Size	4 FT X 4 FT Item No.	4 FT X 8 FT Item No.
1008 Carbon Steel - Cold Rolled Temper (Mill)				
Flat				
0.03 in	¼ in -#20	0.094 x 0.688 in	—	**5PAY5**
0.04 in	¼ in -#18	0.094 x 0.688 in	**5PCJ3**	**5PAY3**
0.05 in	½ in -#16	0.250 x 1.000 in	—	**5PAX9**
0.07 in	½ in -#13	0.250 x 1.000 in	—	**5PAX4**
	¾ in -#13	0.688 x 1.782 in	—	**5PAX6**
	1½ in -#13	1.063 x 2.750 in	—	**5PAX5**
0.11 in	1½ in -#9	1.000 x 2.563 in	—	**5PAY6**
0.12 in	¾ in -#9	0.563 x 1.688 in	—	**5PAY7**
Raised				
0.125 in	¼ in -#18	0.172 x 0.719 in	**5PCN3**	**5PAZ8**
0.157 in	½ in -#16	0.375 x 0.938 in	**5PCL7**	**5PAZ4**
0.182 in	½ in -#13	0.313 x 0.938 in	—	**5PAZ0**
0.195 in	¾ in -#13	0.750 x 1.688 in	—	**5PAZ2**
0.215 in	1½ in -#13	1.188 x 2.500 in	—	**5PAZ1**
0.295 in	1½ in -#9	1.125 x 2.375 in	—	**5PCA1**
0.3 in	¾ in -#9	0.688 x 1.562 in	**5PCR3**	**5PCA3**

Overall Thickness	Trade Size	Opening Size	4 FT X 4 FT Item No.	4 FT X 8 FT Item No.
3003 Aluminum - H14 Temper (Mill)				
Flat				
0.055 in	1 ½ in-#0.081	1.063 x 2.750 in	—	**5PAW1**
0.06 in	½ in-#0.081	0.313 x 1.000 in	**5PCD9**	**5PAW0**
0.07 in	¾ in-#0.081L	0.688 x 1.750 in	**5PCE3**	**5PAW3**
	¾ in-#0.081	0.688 x 1.750 in	**5PCE1**	**5PAW2**
0.08 in	1 ½ in-#0.125	1.000 x 2.750 in	**5PCE6**	**5PAW4**
0.095 in	¾ in-#0.125	0.625 x 1.750 in	**5PCE7**	**5PAW5**
Raised				
0.186 in	½ in-#0.081	0.375 x 0.938 in	**5PCF5**	**5PAW8**
0.2 in	¾ in-#0.081L	0.750 x 1.688 in	**5PCF9**	**5PAX1**
0.24 in	1 ½ in-#0.081	1.188 x 2.500 in	—	**5PAW9**
0.3 in	1 ½ in-#0.125	1.188 x 2.500 in	**5PCG2**	**5PAX2**
0.305 in	¾ in-#0.125	0.688 x 1.688 in	**5PCG3**	**5PAX3**
304 Stainless Steel - 2B Temper (Mill)				
Flat				
0.04 in	½ in -#18	0.313 x 1.000 in	**5PCU4**	**5PCC2**
0.05 in	½ in -#16	0.313 x 1.000 in	**5PCU0**	**5PCA9**
	¾ in -#16	0.750 x 1.813 in	**5PCU2**	**5PCC1**
	1½ in -#16	1.063 x 2.750 in	**5PCU1**	**5PCC0**
0.07 in	¾ in -#13	0.625 x 1.750 in	**5PCT6**	**5PCA8**
0.08 in	1½ in -#13	1.000 x 2.625 in	**5PCT5**	**5PCA7**
0.12 in	¾ in -#9	0.563 x 1.688 in	**5PCU6**	**5PCC3**
Raised				
0.164 in	½ in -#18	0.438 x 0.938 in	**5PCV9**	**5PCC9**
	½ in -#16	0.438 x 0.938 in	**5PCV5**	**5PCC6**
0.2 in	¾ in -#13	0.750 x 1.688 in	**5PCV1**	**5PCC5**
	¾ in -#16	0.813 x 1.750 in	**5PCV7**	**5PCC8**
0.22 in	1½ in -#13	1.250 x 2.625 in	**5PCV0**	**5PCC4**
316 Stainless Steel - (Annealed)				
Flat				
0.05 in	½ in -#16	0.313 x 1.000 in	**5PCT3**	**5PCD1**
0.07 in	¾ in -#13	0.625 x 1.750 in	**5PCT1**	**5PCD0**
Zinc Galvanized Carbon Steel - Hot Rolled				
0.05 in	½ in -#16	0.250 x 1.000 in	**5PCR7**	**5PCA5**
0.07 in	½ in -#13	0.250 x 1.000 in	**5PCR5**	**5PCA4**
0.12 in	¾ in -#9	0.563 x 1.688 in	**5PCR9**	—
Zinc Galvanized Galvanized Steel - Hot Rolled				
0.12 in	¾ in -#9	0.563 x 1.688 in	—	**5PCA6**

Staggered Hex
5PDC5

Perforated Sheets

Used in multiple applications, these sheets are available in staggered or straight patterns, with various hole diameters and open area percentages.

Width	Length	Thickness	Gauge	Hole Dia.	Center Spacing	Open Area	Item No.
3003 Aluminum - H14 Temper (Mill)							
Round Staggered Pattern							
36 in	40 in	0.032 in	20	0.062 in	7/64 in	30 %	**5PDC8**
		0.032 in	20	0.062 in	⅛ in	23 %	**5PDC7**
		0.032 in	20	0.125 in	3/16 in	40 %	**5PDC6**
		0.032 in	20	0.188 in	¼ in	51 %	**5PDC9**
		0.032 in	20	0.25 in	5/16 in	58 %	**5PDC4**
		0.05 in	16	0.062 in	⅛ in	23 %	**5PDC0**
		0.05 in	16	0.125 in	3/16 in	40 %	**5PDA9**
		0.05 in	16	0.188 in	¼ in	51 %	**5PDC2**
		0.05 in	16	0.25 in	⅜ in	40 %	**5PDA8**
		0.063 in	14	0.125 in	3/16 in	40 %	**5PDA6**
		0.063 in	14	0.188 in	¼ in	51 %	**5PDA7**
		0.063 in	14	0.25 in	⅜ in	40 %	**5PDA5**
Hex Staggered Pattern							
36 in	40 in	0.032 in	20	0.25 in	9/32 in	77 %	**5PDC5**

Width	Length	Thickness	Gauge	Hole Dia.	Center Spacing	Open Area	Item No.
1008 Carbon Steel - Cold Rolled Temper (Mill)							
Round Staggered Pattern							
36 in	40 in	0.036 in	20	0.063 in	⅛ in	23 %	**5PDH0**
		0.048 in	18	0.063 in	⅛ in	23 %	**5PDF7**
		0.048 in	18	0.078 in	⅛ in	35 %	**5PDF4**
		0.048 in	18	0.094 in	5/32 in	33 %	**5PDG2**
		0.048 in	18	0.125 in	3/16 in	40 %	**5PDF6**
		0.048 in	18	0.156 in	7/32 in	46 %	**5PDG0**
		0.048 in	18	0.188 in	¼ in	51 %	**5PDG1**
		0.048 in	18	0.25 in	5/16 in	58 %	**5PDF5**
		0.06 in	16	0.063 in	7/64 in	30 %	**5PDE3**
		0.06 in	16	0.063 in	⅛ in	23 %	**5PDE2**
		0.06 in	16	0.078 in	⅛ in	35 %	**5PDD6**
		0.06 in	16	0.094 in	5/32 in	33 %	**5PDF1**
		0.06 in	16	0.125 in	3/16 in	40 %	**5PDE1**
		0.06 in	16	0.156 in	3/16 in	63 %	**5PDE5**
		0.06 in	16	0.156 in	7/32 in	46 %	**5PDE6**
		0.06 in	16	0.188 in	¼ in	50 %	**5PDF0**
		0.06 in	16	0.188 in	5/16 in	32 %	**5PDE9**
		0.06 in	16	0.25 in	5/16 in	58 %	**5PDE0**
		0.06 in	16	0.25 in	⅜ in	40 %	**5PDD9**
		0.06 in	16	0.313 in	7/16 in	46 %	**5PDF2**
		0.06 in	16	0.375 in	9/16 in	40 %	**5PDE8**
		0.06 in	16	0.5 in	11/16 in	48 %	**5PDD7**
		0.075 in	14	0.25 in	⅜ in	40 %	**5PDD3**
		0.075 in	14	0.375 in	9/16 in	40 %	**5PDD4**
		0.075 in	14	0.5 in	11/16 in	48 %	**5PDD2**
		0.25 in		0.25 in	⅜ in	40 %	**5PDJ7**
Square Straight Pattern							
36 in	40 in	0.06 in	16	0.5 in	11/16 in	53 %	**5PDD8**

Width	Length	Thickness	Gauge	Hole Dia.	Center Spacing	Open Area	Item No.
304 Stainless Steel - Annealed Temper (2B)							
Round Staggered Pattern							
36 in	40 in	0.048 in	18	0.094 in	5/32 in	33 %	**5PDL0**
		0.048 in	18	0.125 in	3/16 in	40 %	**5PDK8**
		0.048 in	18	0.188 in	¼ in	51 %	**5PDK9**
		0.048 in	18	0.25 in	5/16 in	58 %	**5PDK7**
		0.048 in	18	0.25 in	⅜ in	40 %	**5PDK0**
		0.06 in	16	0.125 in	3/16 in	40 %	**5PDK5**
		0.06 in	16	0.188 in	¼ in	51 %	**5PDK6**
		0.06 in	16	0.25 in	5/16 in	58 %	**5PDK4**
		0.06 in	16	0.25 in	⅜ in	40 %	**5PDJ8**
		0.075 in	14	0.125 in	3/16 in	40 %	**5PDK3**
		0.075 in	14	0.25 in	⅜ in	40 %	**5PDK2**
		0.12 in	11	0.25 in	⅜ in	40 %	**5PDK1**

Width	Length	Thickness	Hole Dia.	Center Spacing	Open Area	Item No.
Polypropylene - White						
Round Staggered Pattern						
48 in	32 in	0.063 in	0.125 in	3/16 in	40 %	**5PCY1**
		0.125 in	0.125 in	3/16 in	40 %	**5PCX3**
		0.125 in	0.188 in	5/16 in	32 %	**5PCX2**
	96 in	0.063 in	0.125 in	3/16 in	40 %	**5PCY4**
		0.125 in	0.125 in	3/16 in	40 %	**5PCX9**
		0.125 in	0.188 in	5/16 in	32 %	**5PCX8**
Round Straight Pattern						
48 in	32 in	0.125 in	0.25 in	½ in	20 %	**5PCW9**
		0.25 in	0.25 in	½ in	20 %	**5PCW5**
	96 in	0.25 in	0.25 in	½ in	20 %	**5PCW7**
PVC - Gray						
Round Staggered Pattern						
48 in	32 in	0.25 in	0.5 in	11/16 in	48 %	**5PCY9**
	96 in	0.063 in	0.125 in	3/16 in	40 %	**5PDA2**
		0.125 in	0.125 in	3/16 in	40 %	**5PCZ8**

Aluminum Information

Soft, lightweight, corrosion-resistant alloy conducts both heat and electricity.

ALUMINUM TEMPERS

H14 (½ Hard)
Material is strain-hardened only (without additional thermal treatment) to a half-hard temper.

H22 (¼ Hard)
Material is strain-hardened and partially annealed to a quarter-hard condition.

H32 (¼ Hard)
Material is strain-hardened and mechanical properties are stabilized with supplementary thermal treatment to a quarter-hard temper.

T52
Material resists corrosion and can be formed, machined, and welded. Aluminum rods are lightweight and suitable for braces, cross members, frames, ornamental work, railings, and supports. Rods can be drilled, machined, punched, and sawed.

T6
Material is solution heat treated and then artificially aged.

T651
Material is solution heat treated, artificially aged, and then stretch-stress relieved. Refers to plates and cold-finished bars and rods.

T6511
Extruded material is solution heat treated, artificially aged, and then stretch-stress relieved.

Material	Tensile Strength* (psi)	Yield Strength* (psi)	Hardness* (BHN)	Corrosion Resistance	Wear Resistance	Formability	Machinability	Weldability
Alloy 2011	55,000	43,000	95	Poor	Fair	Fair	Excellent	Not Recommended
Alloy 2024	65,000 to 68,000	47,000	120	Poor	Good	Fair	Good	Fair
Alloy 3003	22,000 to 23,000	20,000 to 21,000	40	Excellent	Not Recommended	Good	Poor	Good
Alloy 5052	33,000	28,000	60	Excellent	Not Recommended	Good	Poor	Good
Alloy 6061	45,000	40,000	95	Good	Fair	Fair	Fair	Good
Alloy 6063	27,000	21,000	60	Good	Not Recommended	Good	Good	Good
Alloy 7075	73,000 to 83,000	63,000 to 73,000	150	Fair	Good	Poor	Good	Not Recommended

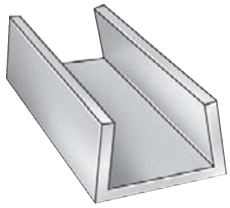
** Typical levels @ 1" dia.*

Aluminum—90° Angles

- 6061 standards: ASTM B308, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Leg Length	Leg Length Tolerance	Thickness Tolerance	4 FT. LENGTH Item No.	8 FT. LENGTH Item No.
Alloy 6061 -T6 Temper (Smooth Unpolished/Extruded)				
⅛ in Thick				
¾"	+/-0.010 in	+/-0.007 in	—	**2EYN8**
1"	+/-0.012 in	+/-0.007 in	—	**2EYP1**
1¼"	+/-0.012 in	+/-0.007 in	**2EYN2**	**2EYP3**
1½"	+/-0.014 in	+/-0.007 in	**2EYN4**	**2EYP5**
1¾"	+/-0.014 in	+/-0.008 in	**2EYU4**	—
2"	+/-0.024 in	+/-0.007 in	**2EYN6**	**2EYP7**
3⁄16 in Thick				
1"	+/-0.012 in	+/-0.007 in	**2EYP9**	**2EYR8**
1¼"	+/-0.012 in	+/-0.007 in	**2EYR2**	**2EYT1**
1½"	+/-0.014 in	+/-0.007 in	**2EYR4**	**2EYT3**
2"	+/-0.024 in	+/-0.007 in	**2EYR6**	**2EYT5**
¼ in Thick				
1"	+/-0.012 in	+/-0.008 in	**2EYT7**	**2EYV5**
1¼"	+/-0.012 in	+/-0.008 in	**2EYT9**	**2EYV7**
1½"	+/-0.014 in	+/-0.008 in	**2EYU2**	**2EYV9**
1¾"	+/-0.014 in	+/-0.008 in	—	**2EYW2**
2"	+/-0.024 in	+/-0.008 in	**2EYU6**	**2EYW4**
2½"	+/-0.024 in	+/-0.008 in	**2EYU8**	**2EYW6**
3"	+/-0.024 in	+/-0.008 in	**2EYV1**	**2EYW8**
4"	+/-0.034 in	+/-0.008 in	**2EYV3**	**2EYX1**
⅜ in Thick				
2"	+/-0.024 in	+/-0.008 in	**2EYX3**	—
2½"	+/-0.024 in	+/-0.008 in	**2EYX5**	—
3"	+/-0.024 in	+/-0.008 in	**2EYX7**	—
4"	+/-0.034 in	+/-0.008 in	**2EYX9**	—
6"	+/-0.044 in	+/-0.008 in	**2EYY2**	—
½ in Thick				
3"	+/-0.024 in	+/-0.009 in	**2EYY4**	**2EYZ1**
4"	+/-0.034 in	+/-0.009 in	**2EYY6**	**2EYZ3**
5"	+/-0.034 in	+/-0.009 in	**2EYY8**	**2EYZ5**
Alloy 6063 -T52 Temper (Mill/Extruded)				
⅛ in Thick				
1"	+/-0.012 in	+/-0.007 in	**6ALZ8**	**6ALZ9**
1½"	+/-0.014 in	+/-0.007 in	**6ALZ6**	**6ALZ7**
2"	+/-0.024 in	+/-0.007 in	**6ALZ4**	**6ALZ5**



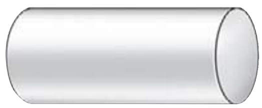
Aluminum—U-Channels

- Length 8 ft.
- 6063 standards: ASTM B221

Offer good corrosion resistance, machinability, formability, and weldability.

Wall Thickness	Base Width	Wall Thickness Tolerance	Base Width Tolerance	Leg Length Tolerance	Item No.
Alloy 6063-T52 Temper/Mill					
½ in Leg Length					
0.062 in	½"	+/-0.006 in	+/-0.009 in	+/-0.009 in	**6ALZ2**
0.093 in	½"	+/-0.006 in	+/-0.009 in	+/-0.009 in	**6ALZ3**
0.125 in	1"	+/-0.007 in	+/-0.012 in	+/-0.009 in	**6ALZ1**
0.125 in	1½"	+/-0.007 in	+/-0.014 in	+/-0.009 in	**6ALZ0**
0.125 in	2"	+/-0.007 in	+/-0.024 in	+/-0.009 in	**6ALY9**
¾ in Leg Length					
0.125 in	½"	+/-0.007 in	+/-0.009 in	+/-0.010 in	**6ALY8**
0.125 in	¾"	+/-0.007 in	+/-0.010 in	+/-0.010 in	**6ALY7**
0.125 in	1¾"	+/-0.007 in	+/-0.014 in	+/-0.010 in	**6ALY6**
1 in Leg Length					
0.125 in	1"	+/-0.007 in	+/-0.012 in	+/-0.012 in	**6ALY5**
1 ¼ in Leg Length					
0.125 in	1¼"	+/-0.007 in	+/-0.012 in	+/-0.012 in	**6ALY1**
1 ½ in Leg Length					
0.125 in	1½"	+/-0.007 in	+/-0.014 in	+/-0.014 in	**6ALY0**
1 in Leg Length					
0.125 in	2"	+/-0.007 in	+/-0.024 in	+/-0.012 in	**6ALY4**
0.125 in	3"	+/-0.007 in	+/-0.024 in	+/-0.012 in	**6ALY3**
0.125 in	4"	+/-0.007 in	+/-0.034 in	+/-0.012 in	**6ALY2**
2 in Leg Length					
0.188 in	5"	+/-0.007 in	+/-0.034 in	+/-0.024 in	**6ALX8**
0.25 in	2"	+/-0.008 in	+/-0.024 in	+/-0.024 in	**6ALX9**

Aluminum—Cylindrical Rods



- 6061 (Unpolished) standards: ASTM B211, AMS-QQ-A-200
- 6061 (Mill); 6063 standards: ASTM B221

Note: Additional sizes and alloys are available; call 1-800-GRAINGER (472-4643).

Dia.	Dia. Tolerance	8 ft * Item No.
Alloy 6063 - T52 Temper (Mill)		
½ in	+/-0.005 in	**6ALN1**
¾ in	+/-0.005 in	**6ALN2**
1 in	+/-0.006 in	**6ALN3**
2 in	+/-0.012 in	**6ALN4**

Dia.	Dia. Tolerance	1 ft Item No.	3 ft Item No.	6 ft Item No.
Alloy 6061 - Extruded Temper (Mill)				
⅛"	+/-0.002 in	**48KU32** **	— —	— —
⅜"	+/-0.002 in	**48KU33** **	— —	— —
½"	+/-0.002 in	**48KU30** **	— —	— —
Alloy 6061 - Extruded Temper (Unpolished)				
⅜"	+/-0.008 in	— —	— —	**2EYJ6** ‡
½"	+/-0.009 in	— —	— —	**2EYJ7** ‡
¾"	+/-0.010 in	— —	**2EYG7** †	**2EYJ9** ‡
⅞"	+/-0.010 in	— —	**2EYG8** †	**2EYK1** ‡
1"	+/-0.012 in	— —	**2EYG9** †	**2EYK2** ‡
1¼"	+/-0.012 in	— —	**2EYH2** †	**2EYK4** ‡
1⅜"	+/-0.012 in	**2EYF3** *	— —	**2EYK5** ‡
1½"	+/-0.014 in	**2EYF4** *	**2EYH4** †	**2EYK7** ‡
1¾"	+/-0.014 in	**2EYF6** *	**2EYH6** †	— —
2"	+/-0.024 in	**2EYF7** *	**2EYH7** †	**2EYL4** ‡
2¼"	+/-0.024 in	**2EYF8** *	**2EYH8** †	**2EYL6** ‡
2½"	+/-0.024 in	**2EYF9** *	**2EYH9** †	**2EYL8** ‡
2¾"	+/-0.024 in	**2EYG1** *	**2EYJ1** †	**2AVB5** ‡
3"	+/-0.024 in	**2EYG2** *	**2EYJ2** †	**2AVB7** ‡
4"	+/-0.034 in	**2EYG6** *	— —	— —

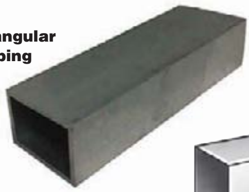
*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ** +/-0.0625".*

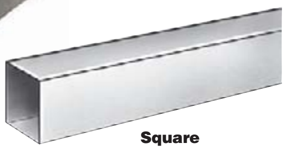
Aluminum—Round Tube Stock

- 6061-T6 Alloy
- 1 ft. Length
- +/-0.003 in Wall thickness tolerance
- +/-0.032 in Length tolerance

Inside Dia.	Outside Dia.	Wall Thickness	Item No.
0.089 in	3⁄16 in	3⁄64 in	**48KU60**
0.117 in	3⁄16 in	1⁄32 in	**48KU61**
0.152 in	¼ in	3⁄64 in	**48KU59**
0.18 in	¼ in	1⁄32 in	**48KU58**
0.214 in	5⁄16 in	3⁄64 in	**48KU65**
0.242 in	5⁄16 in	1⁄32 in	**48KU64**
0.277 in	⅜ in	3⁄64 in	**48KU63**
0.305 in	⅜ in	1⁄32 in	**48KU62**
0.367 in	7⁄16 in	1⁄32 in	**48KU66**
0.43 in	½ in	1⁄32 in	**48KU57**

Rectangular Tubing





Square Tubing

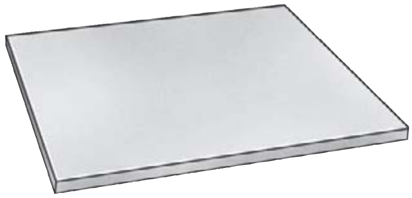
Aluminum—Tubing

- 6063 standards: ASTM B221

Lightweight tubes are easy to drill, saw, punch, and machine.

Outside Rectangle Size	Inside Rectangle Size	L	Wall Thickness	Wall Thickness Tolerance	Length Tolerance	Item No.
Rectangular Tubing - Alloy 6063-T52 Temper/Mill						
1 in x 1½ in	¾ in x 1¼ in	3 ft	0.125 in	+/-0.015 in	+/-2.000 in	**6ALV7**
		6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALV6**
1 in x 2 in	¾ in x 1¾ in	1 ft	0.125 in	+/-0.015 in	+/-1.000 in	**6ALV5**
		3 ft	0.125 in	+/-0.015 in	+/-2.000 in	**6ALV4**
		6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALV3**
1½ in x 2 in	1¼ in x 1¾ in	1 ft	0.125 in	+/-0.015 in	+/-1.000 in	**6ALV2**
		3 ft	0.125 in	+/-0.015 in	+/-2.000 in	**6ALV1**
		6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALV0**
1¾ in x 4 in	1½ in x 3¾ in	6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALU7**
2 in x 3 in	1½ in x 2½ in	3 ft	0.25 in	+/-0.025 in	+/-2.000 in	**6ALU2**
		6 ft	0.25 in	+/-0.025 in	+/-3.000 in	**6ALU1**
	1¾ in x 2¾ in	3 ft	0.125 in	+/-0.015 in	+/-2.000 in	**6ALU5**
		6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALU4**
2 in x 4 in	1½ in x 3½ in	3 ft	0.25 in	+/-0.025 in	+/-2.000 in	**6ALT6**
		6 ft	0.25 in	+/-0.025 in	+/-3.000 in	**6ALT5**
	1¾ in x 3¾ in	1 ft	0.125 in	+/-0.015 in	+/-1.000 in	**6ALU0**
		3 ft	0.125 in	+/-0.015 in	+/-2.000 in	**6ALT9**
		6 ft	0.125 in	+/-0.015 in	+/-3.000 in	**6ALT8**
4 in x 6 in	3½ in x 5½ in	1 ft	0.25 in	+/-0.025 in	+/-1.000 in	**6ALT4**
		3 ft	0.25 in	+/-0.025 in	+/-2.000 in	**6ALT3**
		6 ft	0.25 in	+/-0.025 in	+/-3.000 in	**6ALT2**

Outside Square	Inside Square	L	Wall Thickness	Wall Thickness Tolerance	Length Tolerance	Item No.
Rectangular Tubing - Alloy 6063-T52 Temper/Mill						
¾ in	½ in	3 ft	⅛ in	±0.015 in	±2.000 in	**6ALT0**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALR9**
1 in	¾ in	3 ft	⅛ in	±0.015 in	±2.000 in	**6ALR4**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALR3**
	⅞ in	3 ft	1⁄16 in	±0.010 in	±2.000 in	**6ALR7**
		6 ft	1⁄16 in	±0.010 in	±3.000 in	**6ALR6**
1 ¼ in	1 in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALR2**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALR1**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALR0**
1 ½ in	1 ¼ in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALP9**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALP8**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALP7**
1 ¾ in	1 ½ in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALP6**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALP5**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALP4**
2 in	1 ¾ in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALP3**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALP2**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALP1**
3 in	2 ¾ in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALP0**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALN9**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALN8**
4 in	3 ¾ in	1 ft	⅛ in	±0.015 in	±1.000 in	**6ALN7**
		3 ft	⅛ in	±0.015 in	±2.000 in	**6ALN6**
		6 ft	⅛ in	±0.015 in	±3.000 in	**6ALN5**



Aluminum—Plates

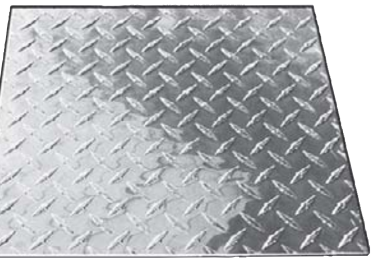
- 3003 standards: ASTM B209, AMS-QQ-A-250, AMS 4008
- 6061 standards: ASTM B209, AMS-QQ-A-250, AMS 4027

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Thickness Tolerance	12" x 12" Item No.	12" x 24" Item No.	12" x 48" Item No.	24" x 48" Item No.
Alloy 3003-H14 (½ Hard) Temper (Milled)					
0.063 in	+/-0.005 in	**3DRZ2** **	**3DRZ3** **	**3DRZ4** **	**3DRZ5** **
0.125 in	+/-0.007 in	**3DRZ6** **	**3DRZ7** **	**3DRZ8** **	**3DRZ9** **
0.188 in	+/-0.010 in	**3DTA1** **	**3DTA2** **	**3DTA3** **	**3DTA4** **
Alloy 6061-T6 Temper (Milled)					
0.063 in	+/-0.005 in	**3DTA5** **	**3DTA6** **	**3DTA7** **	**3DTA8** **
0.125 in	+/-0.007 in	**3DTA9** **	**3DTC1** **	**3DTC2** **	**3DTC3** **
0.188 in	+/-0.010 in	**3DTC4** **	**3DTC5** **	**3DTC6** **	**3DTC7** **

Thickness (Decimal)	Thickness Tolerance	6" x 6" Item No.	12" x 12" Item No.	24" x 24" Item No.
Alloy 6061-T651 Temper (Milled)				
0.25 in	+0.014/-0.000 in	**2AVD6** *	**2HGN8** *	**2HGR5** *
0.25 in	+0.031/-0.000 in	**2AVE1** *	—	—
0.375 in	+0.017/-0.000 in	**2AVD7** *	**2HGN9** *	**2HGR6** *
0.5 in	+0.023/-0.000 in	**2AVD8** *	**2HGP1** *	**2HGR7** *
0.625 in	+0.023/-0.000 in	**2AVD9** *	**2HGP2** *	**2HGR8** *
0.75 in	+0.031/-0.000 in	—	**2HGP3** *	**2HGR9** *
1.0 in	+0.039/-0.000 in	**2AVE2** *	—	**2HGT1** *
1.25 in	+0.039/-0.000 in	**2AVE3** †	**2HGP5** †	**2HGT2** †
1.5 in	+0.039/-0.000 in	**2AVE4** †	—	—

*Width and length tolerances: * ±0.125/0.000"; † ±0.250/0.000"; ** ±0.125.*



Aluminum—Tread Plates

- 3003 standards: ASTM B209
- Length and width tolerance: ±0.125"

Easily welded material is moisture-resistant to provide excellent traction.

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness Tolerance	6 IN X 2 FT Item No.	1 FT X 1 FT Item No.	1 FT X 2 FT Item No.	1 FT X 4 FT Item No.	2 FT X 2 FT Item No.	2 FT X 4 FT Item No.
Alloy 3003- H22 Temper (Bright)						
+/-0.006 in	**3VXC6**	**3DRX8**	**3DRX9**	**3DRY1**	**3VXC7**	**3DRY2**
+/-0.013 in	—	**3DRY3**	**3DRY4**	**3DRY5**	—	**3DRY6**
+/-0.018 in	—	**3DRY7**	**3DRY8**	**3DRY9**	—	**3DRZ1**

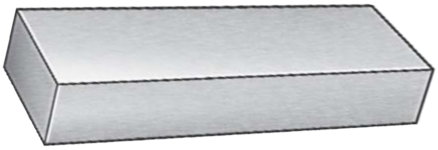
Aluminum—Sheets

- Length tolerance: ±0.032"
- Thickness tolerance: ±0.002"
- Width tolerance: ±0.005"

Can be cut, drilled, or shaped.

Thickness (Decimal)	Thickness Tolerance	W	L	Item No.
Alloy 3003 - H14 (½ Hard) (Milled)				
0.032 in	+/-0.002 in	4"	10"	**5MWN1**
	+/-0.002 in	6"	12"	**15V222**
0.064 in	+/-0.002 in	4"	10"	**5MWN2**
Alloy 6061 - T6 (Milled)				
0.09 in	+/-0.002 in	6"	12"	**15V220**
0.125 in	+/-0.002 in	6"	12"	**15V221**

Aluminum— Rectangular Bars



- 2024 standards: ASTM B211, AMS-QQ-A-225, AMS 4120
- 3003 standards: ASTM B209
- 5052 standards: ASTM B209
- 6061 standards: ASTM B221, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 2024 - Cold Finish Temper (Unpolished)					
0.375 in	4 in x 12 in	+/-0.010 in	+/-0.002 in	2EYK6	*
	4 in x 36 in	+/-0.010 in	+/-0.002 in	2EYK8	*
	4 in x 72 in	+/-0.010 in	+/-0.002 in	2EYL1	‡
Alloy 3003 - H14 (½ Hard) Temper (Mill)					
0.125 in	1 in x 36 in	+/-0.063 in	+/-0.006 in	1NZC9	**
	1 in x 72 in	+/-0.063 in	+/-0.006 in	1NZD1	**
	1½ in x 36 in	+/-0.063 in	+/-0.006 in	1NZD3	**
	1½ in x 72 in	+/-0.063 in	+/-0.006 in	1NZD4	**
	2 in x 12 in	+/-0.063 in	+/-0.006 in	1NZD5	**
	2 in x 36 in	+/-0.063 in	+/-0.006 in	1NZD6	**
	2 in x 72 in	+/-0.063 in	+/-0.006 in	1NZD7	**
	4 in x 12 in	+/-0.063 in	+/-0.006 in	1NZE5	**
	4 in x 36 in	+/-0.063 in	+/-0.006 in	1NZE6	**
	4 in x 72 in	+/-0.063 in	+/-0.006 in	1NZE7	**
0.187 in	1½ in x 12 in	+/-0.063 in	+/-0.007 in	1NZF2	**
	1½ in x 72 in	+/-0.063 in	+/-0.007 in	1NZF4	**
Alloy 5052 - H32 (¼ Hard) Temper (Mill)					
0.125 in	1 in x 36 in	+/-0.060 in	+/-0.006 in	1NZG9	
	1 in x 72 in	+/-0.060 in	+/-0.006 in	1NZH1	
	1½ in x 36 in	+/-0.060 in	+/-0.006 in	1NZH3	
	1½ in x 72 in	+/-0.060 in	+/-0.006 in	1NZH4	
	2 in x 36 in	+/-0.060 in	+/-0.006 in	1NZH6	
	2 in x 72 in	+/-0.060 in	+/-0.006 in	1NZH7	
	2½ in x 36 in	+/-0.060 in	+/-0.006 in	1NZH9	
	2½ in x 72 in	+/-0.060 in	+/-0.006 in	1NZJ1	
	3 in x 72 in	+/-0.060 in	+/-0.006 in	1NZJ4	
	4 in x 12 in	+/-0.060 in	+/-0.006 in	1NZJ5	
	4 in x 72 in	+/-0.060 in	+/-0.006 in	1NZJ7	
0.25 in	1 in x 36 in	+/-0.060 in	+/-0.012 in	1NZL9	
	1 in x 72 in	+/-0.060 in	+/-0.012 in	1NZN1	
	2 in x 12 in	+/-0.060 in	+/-0.012 in	1NZN5	
	2 in x 72 in	+/-0.060 in	+/-0.012 in	1NZN7	
	4 in x 12 in	+/-0.060 in	+/-0.012 in	1NZP5	
	4 in x 36 in	+/-0.060 in	+/-0.012 in	1NZP6	
	4 in x 72 in	+/-0.060 in	+/-0.012 in	1NZP7	
Alloy 6061 - Extruded Temper (Unpolished)					
0.125 in	1 in x 72 in	+/-0.012 in	+/-0.007 in	2EYV4	‡
	1½ in x 72 in	+/-0.014 in	+/-0.007 in	2EYV6	‡
	2 in x 72 in	+/-0.024 in	+/-0.007 in	2EYV8	‡
	3 in x 36 in	+/-0.024 in	+/-0.007 in	2EYU9	*
	3 in x 72 in	+/-0.024 in	+/-0.007 in	2EYW1	‡
	4 in x 36 in	+/-0.034 in	+/-0.007 in	2EYV2	*
	4 in x 72 in	+/-0.034 in	+/-0.007 in	2EYW3	‡
0.25 in	1 in x 72 in	+/-0.012 in	+/-0.008 in	2EZA5	‡
	1½ in x 36 in	+/-0.014 in	+/-0.008 in	2EYY9	*
	1½ in x 72 in	+/-0.014 in	+/-0.008 in	2EZA7	‡
	2 in x 36 in	+/-0.024 in	+/-0.008 in	2EYZ2	*
	2 in x 72 in	+/-0.024 in	+/-0.008 in	2EZA9	‡
	3 in x 36 in	+/-0.024 in	+/-0.008 in	2EYZ6	*
	3 in x 72 in	+/-0.024 in	+/-0.008 in	2EZB4	‡
	4 in x 12 in	+/-0.034 in	+/-0.008 in	2EYY7	*
	4 in x 36 in	+/-0.034 in	+/-0.008 in	2EYZ8	*
	4 in x 72 in	+/-0.034 in	+/-0.008 in	2EZB6	‡
	6 in x 12 in	+/-0.044 in	+/-0.008 in	2ARH3	*
	6 in x 36 in	+/-0.044 in	+/-0.008 in	2ARH7	*
	6 in x 72 in	+/-0.044 in	+/-0.008 in	2ARJ2	‡
	12 in x 12 in	+/-0.084 in	+/-0.008 in	2ARH5	*
	12 in x 36 in	+/-0.084 in	+/-0.008 in	2ARH9	*
	12 in x 72 in	+/-0.084 in	+/-0.008 in	2ARJ4	‡

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 6061 - Extruded Temper (Unpolished— Cont.)					
0.375 in	1 in x 36 in	+/-0.012 in	+/-0.008 in	2EZE1	*
	1 in x 72 in	+/-0.012 in	+/-0.008 in	2EZF8	‡
	1½ in x 36 in	+/-0.014 in	+/-0.008 in	2EZE3	*
	1½ in x 72 in	+/-0.014 in	+/-0.008 in	2EZG1	‡
	2 in x 36 in	+/-0.024 in	+/-0.008 in	2EZE5	*
	2 in x 72 in	+/-0.024 in	+/-0.008 in	2EZG3	‡
0.5 in	1½ in x 12 in	+/-0.014 in	+/-0.009 in	2EZH6	*
	1½ in x 36 in	+/-0.014 in	+/-0.009 in	2EZK2	*
	1½ in x 72 in	+/-0.014 in	+/-0.009 in	2EZL7	‡
	2 in x 12 in	+/-0.024 in	+/-0.009 in	2EZH8	*
	2 in x 36 in	+/-0.024 in	+/-0.009 in	2EZK4	*
	2 in x 72 in	+/-0.024 in	+/-0.009 in	2EZL9	‡
	3 in x 72 in	+/-0.024 in	+/-0.009 in	2AVC8	‡
	3 in x 12 in	+/-0.024 in	+/-0.009 in	2EZJ3	*
	3 in x 36 in	+/-0.024 in	+/-0.009 in	2EZK8	*
	4 in x 72 in	+/-0.034 in	+/-0.009 in	2AVD1	‡
	4 in x 12 in	+/-0.034 in	+/-0.009 in	2EZJ5	*
	4 in x 36 in	+/-0.034 in	+/-0.009 in	2EZL1	*
	6 in x 12 in	+/-0.044 in	+/-0.009 in	1ZCT6	*
	6 in x 36 in	+/-0.044 in	+/-0.009 in	1ZCT9	*
	6 in x 72 in	+/-0.044 in	+/-0.009 in	1ZCU4	‡
0.75 in	1 in x 12 in	+/-0.012 in	+/-0.010 in	2EZT8	*
	1 in x 36 in	+/-0.012 in	+/-0.010 in	2EZU6	*
	1 in x 72 in	+/-0.012 in	+/-0.010 in	2EZV3	‡
	1½ in x 12 in	+/-0.014 in	+/-0.010 in	2EZU1	*
	1½ in x 36 in	+/-0.014 in	+/-0.010 in	2EZU8	*
	1½ in x 72 in	+/-0.014 in	+/-0.010 in	2EZV5	‡
	2 in x 12 in	+/-0.024 in	+/-0.010 in	2EZU3	*
	2 in x 36 in	+/-0.024 in	+/-0.010 in	2EZU9	*
	2 in x 72 in	+/-0.024 in	+/-0.010 in	2EZV6	‡
	3 in x 12 in	+/-0.024 in	+/-0.010 in	2EZU4	*
	3 in x 36 in	+/-0.024 in	+/-0.010 in	2EZV1	*
	3 in x 72 in	+/-0.024 in	+/-0.010 in	2EZV7	‡
	4 in x 12 in	+/-0.034 in	+/-0.010 in	2EZU5	*
	4 in x 36 in	+/-0.034 in	+/-0.010 in	2EZV2	*
	4 in x 72 in	+/-0.034 in	+/-0.010 in	2EZV8	‡
1.0 in	1½ in x 12 in	+/-0.014 in	+/-0.012 in	2EZW2	*
	1½ in x 36 in	+/-0.014 in	+/-0.012 in	2EZW9	*
	1½ in x 72 in	+/-0.014 in	+/-0.012 in	2EZX7	‡
	2 in x 12 in	+/-0.024 in	+/-0.012 in	2EZW3	*
	2 in x 36 in	+/-0.024 in	+/-0.012 in	2EZX1	*
	2 in x 72 in	+/-0.024 in	+/-0.012 in	2EZX8	‡
	3 in x 12 in	+/-0.024 in	+/-0.012 in	2EZW5	*
	3 in x 36 in	+/-0.024 in	+/-0.012 in	2EZX3	*
	3 in x 72 in	+/-0.024 in	+/-0.012 in	2EZY1	‡
	4 in x 12 in	+/-0.034 in	+/-0.012 in	2EZW6	*
	4 in x 36 in	+/-0.034 in	+/-0.012 in	2EZX4	*
	4 in x 72 in	+/-0.034 in	+/-0.012 in	2EZY2	‡
1.25 in	1½ in x 36 in	+/-0.014 in	+/-0.012 in	2EZY7	*
1.5 in	2 in x 12 in	+/-0.024 in	+/-0.014 in	2EZZ5	*
	2 in x 36 in	+/-0.024 in	+/-0.014 in	2EZZ8	*
	2 in x 72 in	+/-0.024 in	+/-0.014 in	2FAA1	‡
	8 in x 12 in	+/-0.054 in	+/-0.014 in	1ZCY6	*
	8 in x 36 in	+/-0.054 in	+/-0.014 in	1ZCZ1	*
	8 in x 72 in	+/-0.054 in	+/-0.014 in	1ZCZ5	‡
2.0 in	2½ in x 12 in	+/-0.024 in	+/-0.024 in	2FAB1	*
	2½ in x 36 in	+/-0.024 in	+/-0.024 in	2FAB4	*
	2½ in x 72 in	+/-0.024 in	+/-0.024 in	2FAB6	‡
	3 in x 12 in	+/-0.024 in	+/-0.024 in	2FAB2	*
	3 in x 36 in	+/-0.024 in	+/-0.024 in	2FAB5	*
	3 in x 72 in	+/-0.024 in	+/-0.024 in	2FAB7	‡
	6 in x 12 in	+/-0.044 in	+/-0.024 in	1ZDA5	*
	6 in x 36 in	+/-0.044 in	+/-0.024 in	1ZDA9	*
	6 in x 72 in	+/-0.044 in	+/-0.024 in	1ZDB4	‡
3.0 in	4 in x 36 in	+/-0.034 in	+/-0.024 in	1ZDD5	*
	4 in x 72 in	+/-0.034 in	+/-0.024 in	1ZDD9	‡
	4 in x 12 in	+/-0.034 in	+/-0.024 in	2HGL9	*

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 6063 - T52 Temper (Mill)					
0.125 in	½ in x 96 in	+/-0.009 in	+/-0.007 in	6ALX7	*
	½ in x 96 in	+/-0.009 in	+/-0.007 in	6ALX7	*
	¾ in x 96 in	+/-0.010 in	+/-0.007 in	6ALX5	*
	¾ in x 96 in	+/-0.010 in	+/-0.007 in	6ALX5	*
	1 in x 96 in	+/-0.012 in	+/-0.007 in	6ALX4	*
	1 in x 96 in	+/-0.012 in	+/-0.007 in	6ALX4	*
0.25 in	1 in x 96 in	+/-0.012 in	+/-0.008 in	6ALW7	*
	1 in x 96 in	+/-0.012 in	+/-0.008 in	6ALW7	*
	1½ in x 96 in	+/-0.014 in	+/-0.008 in	6ALW6	*
	1½ in x 96 in	+/-0.014 in	+/-0.008 in	6ALW6	*
	2 in x 96 in	+/-0.024 in	+/-0.008 in	6ALW5	*
	2 in x 96 in	+/-0.024 in	+/-0.008 in	6ALW5	*
0.5 in	¾ in x 96 in	+/-0.010 in	+/-0.009 in	6ALW1	*
	¾ in x 96 in	+/-0.010 in	+/-0.009 in	6ALW1	*
	1 in x 96 in	+/-0.012 in	+/-0.009 in	6ALW0	*
	1 in x 96 in	+/-0.012 in	+/-0.009 in	6ALW0	*
	2 in x 96 in	+/-0.024 in	+/-0.009 in	6ALV9	*
	2 in x 96 in	+/-0.024 in	+/-0.009 in	6ALV9	*

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ** ±0.500".*

Aluminum— Square Bars

- 6061 standards: ASTM B221, AMS-QQ-A-200
- 6063 standards: ASTM B221

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness (Decimal)	Width and Length	Width Tolerance	Thickness Tolerance	Item No.	
Alloy 6061 - Extruded Temper (Unpolished)					
0.125 in	6 in x 72 in	+/-0.044 in	+/-0.007 in	2ARH1	‡
0.375 in	⅜ in x 72 in	+/-0.008 in	+/-0.008 in	2EZF4	‡
0.625 in	⅝ in x 36 in	+/-0.009 in	+/-0.009 in	2EZP2	†
	⅝ in x 72 in	+/-0.009 in	+/-0.009 in	2EZR5	‡
	⅝ in x 12 in	+/-0.009 in	+/-0.009 in	2AVD3	*
1.0 in	1 in x 12 in	+/-0.012 in	+/-0.012 in	2EZV9	*
	1 in x 36 in	+/-0.012 in	+/-0.012 in	2EZW7	†
	1 in x 72 in	+/-0.012 in	+/-0.012 in	2EZX5	‡
	12 in x 36 in	+/-0.084 in	+/-0.012 in	1ZCX6	†
1.5 in	4 in x 72 in	+/-0.034 in	+/-0.014 in	1ZCZ3	‡
1.75 in	1¾ in x 12 in	+/-0.014 in	+/-0.014 in	2FAA3	*
	1¾ in x 72 in	+/-0.014 in	+/-0.014 in	2FAA7	‡
2.0 in	4 in x 72 in	+/-0.034 in	+/-0.024 in	1ZDB3	‡
4.0 in	6 in x 72 in	+/-0.044 in	+/-0.034 in	1ZDE7	‡
Alloy 6063 - T52 Temper (Mill)					
0.125 in	1¼ in x 96 in	+/-0.012 in	+/-0.007 in	6ALX3	*
0.25 in	½ in x 96 in	+/-0.009 in	+/-0.008 in	6ALW9	*
	¾ in x 96 in	+/-0.010 in	+/-0.008 in	6ALW8	*
0.5 in	½ in x 96 in	+/-0.009 in	+/-0.009 in	6ALL9	*
0.625 in	⅝ in x 96 in	+/-0.009 in	+/-0.009 in	6ALL8	*
0.75 in	¾ in x 96 in	+/-0.010 in	+/-0.010 in	6ALL7	*
0.875 in	⅞ in x 96 in	+/-0.010 in	+/-0.010 in	6ALL6	*
1.0 in	1 in x 96 in	+/-0.012 in	+/-0.012 in	6ALL5	*

*Length tolerance: * ±1.000"; † ±3.000"; ‡ ±6.000"; ** ±0.500".*

Aluminum—Precision Ground Blanks

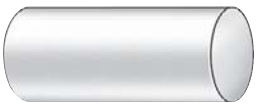
- 6061 standards: ASTM B209, ASTM B211
- 2024 standards: ASTM B209

Feature highly consistent dimensions with guaranteed tolerances. Machine-ready materials increase throughput by helping to minimize preparation and setup times. Thickness, width, and length tolerances: ±0.002".

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

Thickness	Width and Length	Item No.
Alloy 6061 -T651 Temper		
0.25 in	6 in x 6 in	1NYL1
	6 in x 12 in	1NYK9
	8 in x 8 in	1NYL3
	8 in x 12 in	1NYL2
	12 in x 12 in	1NYK3
	12 in x 18 in	1NYK4
	12 in x 24 in	1NYK5
	24 in x 24 in	1NYK7
0.375 in	6 in x 12 in	1NYN1
	12 in x 24 in	1NYL6
0.5 in	12 in x 12 in	1NYN5
	12 in x 18 in	1NYN6
	12 in x 24 in	1NYN7
0.625 in	4 in x 12 in	1NYR2
	6 in x 6 in	1NYR4
	6 in x 12 in	1NYR3
	8 in x 8 in	1NYR6
	8 in x 12 in	1NYR5
	12 in x 12 in	1NYP6
	12 in x 18 in	1NYP7
	12 in x 24 in	1NYP8
	24 in x 24 in	1NYR1

Thickness	Width and Length	Item No.
0.75 in	4 in x 12 in	1NYT3
	6 in x 12 in	1NYT4
	8 in x 12 in	1NYT6
	12 in x 18 in	1NYR8
	12 in x 24 in	1NYR9
	24 in x 24 in	1NYT2
1 in	1 in x 1 in	1NYT8
	2 in x 3 in	1NYU4
	6 in x 12 in	1NYU7
2.5 in	2½ in x 2½ in	1NYV5
5 in	5 in x 5 in	1NYV9
6 in	6 in x 6 in	1NYX1
7.5 in	7½ in x 7½ in	1NYX2



Thickness (Decimal)	2 in x 12 in Item No.	6 in x 6 in Item No.	6 in x 12 in Item No.	8 in x 8 in Item No.	8 in x 12 in Item No.	12 in x 12 in Item No.	12 in x 18 in Item No.	12 in x 24 in Item No.	24 in x 24 in Item No.
Alloy 2024 -T351 Temper									
0.25 in	—	—	1NYX7	1NYY1	—	1NYX3	1NYX4	1NYX5	1NYX6
0.375 in	1NYY5	1NYY8	1NYY7	1NYZ1	—	—	—	—	1NYY6
0.5 in	—	1NYZ8	1NYZ7	—	1NYZ9	1NYZ2	1NYZ3	1NYZ4	1NYZ6
0.625 in	—	1NZA9	1NZA7	—	—	1NZA2	1NZA3	1NZA4	—
0.75 in	—	—	—	1NZB6	1NZB4	1NZB2	—	—	—
1.0 in	—	1NZC5	1NZC4	—	—	1NZB8	1NZB9	1NZC1	1NZC3

Industrial Foil

- Thickness tolerance: ≤10%
- Width tolerance: ±0.010"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

ALUMINUM FOIL ROLLS AND SHEETS

Soft-tempered sheets and rolls are good for packaging and laminations. Meet ASTM B209 standards.

Thickness	Width	Length	Item No.	Pkg. Qty.
Aluminum Foil Rolls And Sheets				
Soft-Tempered Sheets				
0.0005 in	9 in	10 ¾ in	**4UGH6**	500
0.0006 in	10 ¾ in	12 in	**4UGH7**	500
Soft-Tempered Foil Roll				
0.0007 in	12 in	500 ft	**4UGE8**	1
	12 in	1,000 ft	**4UGE9**	1
	18 in	500 ft	**4UGF1**	1
	18 in	1,000 ft	**4UGF2**	1
0.001 in	12 in	250 ft	**4UGF3**	1
	18 in	250 ft	**4UGF5**	1
	18 in	500 ft	**4UGF6**	1
0.0015 in	6 in	250 ft	**4UGF8**	1
	6 in	500 ft	**4UGF9**	1
	8 in	250 ft	**4UGG1**	1
	8 in	500 ft	**4UGG2**	1
0.002 in	18 in	250 ft	**4UGG3**	1
	18 in	500 ft	**4UGG4**	1
0.003 in	36 in	100 ft	**4UGG5**	1
	48 in	100 ft	**4UGG6**	1
0.005 in	36 in	100 ft	**4UGG7**	1
	48 in	100 ft	**4UGG8**	1

STAINLESS STEEL FOIL ROLLS

Nonmagnetic rolls have good weldability and formability. Frequently used in heat treating, moisture barriers, chemical tanks, heat exchangers, fin stock, chemical equipment, metal stampings, and shim stock. Meet ASTM A240 standards.

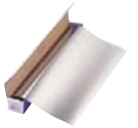
COPPER FOIL ROLLS—ALLOY 110

Form a corrosion-resistant green patina over time. Plain finish, soft temper. Commonly used in heat exchangers, fin stock, metal stampings, transformers. Meet ASTM B152 standards.

Thickness	Width	Length	Item No.	Pkg. Qty.
0.016 in	6 in	50 ft	**4UGG9**	1
	12 in	50 ft	**4UGH2**	1
	14 in	50 ft	**4UGH3**	1
	18 in	50 ft	**4UGH4**	1
	20 in	50 ft	**4UGH5**	1
Hard-Tempered Foil Roll				
0.001 in	18 in	50 ft	**4UGH9**	1
	18 in	100 ft	**4UGJ6**	1
0.002 in	6 in	50 ft	**4UGJ1**	1
	6 in	100 ft	**4UGJ7**	1
	18 in	50 ft	**4UGJ2**	1
	18 in	100 ft	**4UGJ8**	1
0.003 in	6 in	50 ft	**4UGJ3**	1
	6 in	100 ft	**4UGJ9**	1
	18 in	50 ft	**4UGJ4**	1
	18 in	100 ft	**4UGK1**	1

Thickness	Width	Length	Item No.	Pkg. Qty.
Stainless Steel Foil Rolls				
304 Alloy				
0.002 in	12 in	10 ft	**4UGK2**	1
	12 in	25 ft	**4UGK4**	1
	12 in	50 ft	**4UGK6**	1
	12 in	100 ft	**4UGK8**	1
	24 in	10 ft	**4UGK3**	1
	24 in	25 ft	**4UGK5**	1
	24 in	50 ft	**4UGK7**	1
	24 in	100 ft	**4UGK9**	1
309 Alloy				
0.002 in	24 in	10 ft	**4UGL1**	1
	24 in	100 ft	**4UGL4**	1
321 Alloy				
0.002 in	12 in	10 ft	**4UGL5**	1
	12 in	25 ft	**4UGL7**	1
	12 in	100 ft	**4UGN2**	1
	24 in	50 ft	**4UGN1**	1
	24 in	100 ft	**4UGN3**	1
Copper Foil Rolls				
110 Alloy				
0.003 in	1 in	100 ft	**4UGP2**	1
	2 in	100 ft	**4UGT5**	1
	4 in	50 ft	**4UGU3**	1
	4 in	100 ft	**4UGV1**	1
	6 in	50 ft	**4UGV8**	1
	6 in	100 ft	**4UGW6**	1
0.005 in	1 in	100 ft	**4UGP4**	1
0.007 in	1 in	100 ft	**4UGP5**	1
	1 ½ in	100 ft	**4UGR3**	1
	2 in	100 ft	**4UGT8**	1
0.01 in	1 in	100 ft	**4UGP6**	1
	2 in	50 ft	**4UGT2**	1
0.021 in	4 in	50 ft	**4UGU9**	1

PRECISION BRAND
MAUDLIN PRODUCTS
MW Industries, Inc.



Coatings & Tool Wraps

Cut-to-fit wraps eliminate decarburization buildup, help protect from scale and oxide buildup during heat treating in atmospheric furnaces, and protect surface of air hardening tool steels. Packaged in reclosable cartons.

Note: Additional sizes are available on Grainger.com®.

W	L	Max. Temp. (°F)	Thickness	Brand	Item No.
Tool Wrap					
309 Stainless Steel					
10 in	100 ft	2100	0.002 in	Maudlin Products	**4FRA9**
12 in	50 ft	2240	0.002 in	Precision Brand	**5XE79**
	100 ft	2240	0.002 in	Precision Brand	**5XE80**
20 in	50 ft	2100	0.002 in	Maudlin Products	**4FRC1**
	100 ft	2100	0.002 in	Maudlin Products	**4FRC2**
24 in	50 ft	2240	0.002 in	Precision Brand	**5XE77**
	100 ft	2240	0.002 in	Precision Brand	**5XE78**
321 Stainless Steel					
10 in	50 ft	1800	0.002 in	Maudlin Products	**4FRC3**
	100 ft	1800	0.002 in	Maudlin Products	**4FRC4**
12 in	50 ft	2000	0.002 in	Precision Brand	**5XB94**
	100 ft	2000	0.002 in	Precision Brand	**5XE76**
20 in	50 ft	1800	0.002 in	Maudlin Products	**4FRC5**
	100 ft	1800	0.002 in	Maudlin Products	**4FRC6**
	100 ft	2000	.002 in	Precision Brand	**42DJ76**
Type 309, Soft Annealed, Stainless Steel					
10 in	50 ft	2100	0.002 in	Maudlin Products	**4FRA8**

Coverage	Color	Includes	Brand	Item No.
Tool Protective Coating				
—	Clear Transparent	5lb. bag	Precision Brand	**3L879**
	Amber Transparent	5lb. bag	Precision Brand	**3L877**
Tool Blackener				
20 sq ft	Blue	1 pt Each: Tool Black Gel, Metal Polish/Cleaner, Prevent Sealer and Rust Preventative	Precision Brand	**43Y999**
25 sq ft to 35 sq ft	Blue	1 pt Each: Tool Black Liquid, Metal Polish/Cleaner, Prevent Sealer and Rust Preventative	Precision Brand	**43Y998**
30 sq ft to 40 sq ft	Black	1 qt ABC Blackener and ABC Sealant	Precision Brand	**5XU50**
50 sq ft to 75 sq ft	—	5lb. bag	Precision Brand	**42DJ92**

Bronze Sheet Metal Strips

- For thicknesses above ½" see Grainger.com®

Thickness	L	W	Item No.
932 Alloy Type			
¼ in	6 in	4 in	**56FY57**
	12 in	4 in	**56FY93**
	24 in	4 in	**56FZ30**
	36 in	4 in	**56FZ58**
⅜ in	6 in	4 in	**56FY58**
	12 in	4 in	**56FY94**
	24 in	4 in	**56FZ31**
	36 in	4 in	**56FZ59**

Thickness	L	W	Item No.
954 Alloy Type			
¼ in	6 in	1 in	**56FY39**
	6 in	3 in	**56FY40**
	6 in	12 in	**56FY41**
	12 in	1 in	**56FY74**
	12 in	3 in	**56FY75**
	12 in	12 in	**56FY76**
	24 in	1 in	**56FZ11**
	24 in	3 in	**56FZ12**
	24 in	12 in	**56FZ13**
	36 in	1 in	**56FZ39**
	36 in	3 in	**56FZ40**
	36 in	12 in	**56FZ41**
⅜ in	6 in	3 in	**56FY42**
	6 in	6 in	**56FY43**
	12 in	1 in	**56FY77**
	12 in	3 in	**56FY78**
	12 in	6 in	**56FY79**
	24 in	1 in	**56FZ14**
	24 in	3 in	**56FZ15**
	24 in	6 in	**56FZ16**
	36 in	1 in	**56FZ42**
	36 in	3 in	**56FZ43**
	36 in	6 in	**56FZ44**

Thickness	L	W	Item No.
½ in	6 in	½ in	**56FY44**
	6 in	2 in	**56FY45**
	6 in	4 in	**56FY46**
	12 in	½ in	**56FY80**
	12 in	2 in	**56FY81**
	12 in	4 in	**56FY82**
	24 in	½ in	**56FZ17**
	24 in	2 in	**56FZ18**
	24 in	4 in	**56FZ19**
	36 in	4 in	**56FZ47**
	36 in	½ in	**56FZ45**
	36 in	2 in	**56FZ46**
Oilite Bronze Alloy Type			
⅛ in	6 in	5 in	**56FY66**
	12 in	6 in	**56FZ03**
3/16 in	6 in	5 in	**56FY67**
	12 in	6 in	**56FZ04**
¼ in	6 in	5 in	**56FY68**
	12 in	6 in	**56FZ05**
⅜ in	6 in	5 in	**56FY69**
	12 in	6 in	**56FZ06**
½ in	6 in	5 in	**56FY70**
	12 in	6 in	**56FZ07**

Bronze Cored Bar

L	Unfinished Inside Dia.	Unfinished Outside Dia.	Max. Pv	Temp. Range	Item No.
Aluminum Bronze					
Aluminum Green Alloy					
13 in	¾"	1¼"	125,000	-450° to 750°F	**22PR55**
13 in	1"	1½"	125,000	-450° to 750°F	**22PR56**
13 in	1"	1¾"	125,000	-450° to 750°F	**22PR57**
13 in	1"	2"	125,000	-450° to 750°F	**22PR58**
13 in	1"	2½"	125,000	-450° to 750°F	**22PR59**
13 in	1"	3"	125,000	-450° to 750°F	**22PR60**
13 in	1¼"	1¾"	125,000	-450° to 750°F	**22PR61**
13 in	1¼"	2"	125,000	-450° to 750°F	**22PR62**
13 in	1½"	2¼"	125,000	-450° to 750°F	**22PR64**
13 in	1½"	2½"	125,000	-450° to 750°F	**22PR65**
13 in	1¾"	2½"	125,000	-450° to 750°F	**22PR67**
13 in	1¾"	2¾"	125,000	-450° to 750°F	**22PR68**
13 in	2"	3"	125,000	-450° to 750°F	**22PR70**
13 in	2"	4"	125,000	-450° to 750°F	**22PR71**
13 in	2½"	3"	125,000	-450° to 750°F	**22PR72**
13 in	3"	3½"	125,000	-450° to 750°F	**22PR73**
13 in	3"	4"	125,000	-450° to 750°F	**22PR74**
Bronze					
Leaded Tin Alloy					
13 in	½"	1"	75,000	-450° to 500°F	**22PR15**
13 in	1"	1½"	75,000	-450° to 500°F	**22PR17**
13 in	1"	2"	75,000	-450° to 500°F	**22PR19**
13 in	1"	3"	75,000	-450° to 500°F	**22PR21**
13 in	1¼"	1¾"	75,000	-450° to 500°F	**22PR22**
13 in	1½"	2"	75,000	-450° to 500°F	**22PR23**
13 in	1½"	2½"	75,000	-450° to 500°F	**22PR25**
13 in	1½"	3"	75,000	-450° to 500°F	**22PR26**
13 in	1¾"	2½"	75,000	-450° to 500°F	**22PR27**
13 in	2"	2½"	75,000	-450° to 500°F	**22PR28**
13 in	2"	4"	75,000	-450° to 500°F	**22PR30**
13 in	2½"	3"	75,000	-450° to 500°F	**22PR31**
13 in	2½"	3½"	75,000	-450° to 500°F	**22PR32**
13 in	3"	3½"	75,000	-450° to 500°F	**22PR33**
13 in	3"	4"	75,000	-450° to 500°F	**22PR34**
Powdered Bronze					
Self Lubricating Bearing Alloy					
6.5 in	½"	1"	50,000	-10° to 220°F	**22PT06**
6.5 in	½"	1½"	50,000	-10° to 220°F	**22PT07**
6.5 in	⅝"	1"	50,000	-10° to 220°F	**22PT08**
6.5 in	⅝"	1½"	50,000	-10° to 220°F	**22PT09**
6.5 in	¾"	1½"	50,000	-10° to 220°F	**22PT11**
6.5 in	¾"	1¾"	50,000	-10° to 220°F	**22PT12**
6.5 in	⅞"	1½"	50,000	-10° to 220°F	**22PT14**
6.5 in	1"	1½"	50,000	-10° to 220°F	**22PT15**
6.5 in	1"	1¾"	50,000	-10° to 220°F	**22PT17**
6.5 in	1"	2"	50,000	-10° to 220°F	**22PT18**
6.5 in	1¼"	1¾"	50,000	-10° to 220°F	**22PT19**
6.5 in	1¾"	2½"	50,000	-10° to 220°F	**22PT21**
6.5 in	2"	2¾"	50,000	-10° to 220°F	**22PT22**
6.5 in	2"	3"	50,000	-10° to 220°F	**22PT23**
6.5 in	2¼"	3¼"	50,000	-10° to 220°F	**22PT24**
6.5 in	3"	4"	50,000	-10° to 220°F	**22PT25**

Bronze Solid Bar

L	Unfinished Outside Dia.	Max. Pv	Temp. Range	Item No.
Aluminum Bronze				
Aluminum Green Alloy Alloy				
13 in	¾"	125,000	-450° to 750°F	**22PR75**
13 in	1¼"	125,000	-450° to 750°F	**22PR77**
13 in	1¾"	125,000	-450° to 750°F	**22PR79**
13 in	2½"	125,000	-450° to 750°F	**22PR81**
13 in	3½"	125,000	-450° to 750°F	**22PR83**
Bronze				
Leaded Tin Alloy				
13 in	⅜"	75,000	-450° to 500°F	**22PR35**
13 in	½"	75,000	-450° to 500°F	**22PR36**
13 in	⅝"	75,000	-450° to 500°F	**22PR37**
13 in	¾"	75,000	-450° to 500°F	**22PR38**
13 in	⅞"	75,000	-450° to 500°F	**22PR39**
13 in	1¼"	75,000	-450° to 500°F	**22PR42**
13 in	1⅜"	75,000	-450° to 500°F	**22PR43**
13 in	1½"	75,000	-450° to 500°F	**22PR44**
13 in	1⅝"	75,000	-450° to 500°F	**22PR45**
13 in	1¾"	75,000	-450° to 500°F	**22PR46**
13 in	2½"	75,000	-450° to 500°F	**22PR49**
13 in	2¾"	75,000	-450° to 500°F	**22PR50**
13 in	3"	75,000	-450° to 500°F	**22PR51**
13 in	3½"	75,000	-450° to 500°F	**22PR52**
Powdered Bronze				
Self Lubricating Bearing Alloy				
2 in	¼"	50,000	-10° to 220°F	**22PR85**
3 in	⅜"	50,000	-10° to 220°F	**22PR86**
6.5 in	½"	50,000	-10° to 220°F	**22PR87**
6.5 in	⅝"	50,000	-10° to 220°F	**22PR88**
6.5 in	⅞"	50,000	-10° to 220°F	**22PR90**
6.5 in	1"	50,000	-10° to 220°F	**22PR91**
6.5 in	1¼"	50,000	-10° to 220°F	**22PR93**
6.5 in	1⅜"	50,000	-10° to 220°F	**22PR94**
6.5 in	1⅝"	50,000	-10° to 220°F	**22PR96**
6.5 in	1¾"	50,000	-10° to 220°F	**22PR97**
6.5 in	2"	50,000	-10° to 220°F	**22PR98**
6.5 in	2½"	50,000	-10° to 220°F	**22PT01**
6.5 in	3"	50,000	-10° to 220°F	**22PT02**
6.5 in	4"	50,000	-10° to 220°F	**22PT03**
6.5 in	5"	50,000	-10° to 220°F	**22PT05**

Brass Square & Rectangle Tube Stock

- 1' Length
- ½ to ¾ Hard temper
- +/-0.032 in. tolerance

Outside Square	Inside Square	Wall Thickness	Item No.
Tubing, Square, 260/270 Alloy			
1/16 in	0.035 in	0.014 in	**48KU46**
3/32 in	0.066 in	0.014 in	**48KU50**
1/8 in	0.097 in	0.014 in	**48KU15**
5/32 in	0.128 in	0.014 in	**48KU55**
3/16 in	0.159 in	0.014 in	**48KU52**
7/32 in	0.191 in	0.014 in	**48KU56**
1/4 in	0.222 in	0.014 in	**48KU47**

Outside Rectangle Size	Inside Rectangle Size	Wall Thickness	Item No.
Tubing, Rectangular, 260/270 Alloy			
3/32 in x 3/16 in	1/16 in x 3/16 in	0.013 in	**48KU53**
1/8 in x 1/4 in	1/16 in x 3/16 in	0.013 in	**48KU49**
5/32 in x 5/16 in	1/8 in x 1/4 in	0.013 in	**48KU54**
3/16 in x 3/8 in	1/8 in x 1/4 in	0.013 in	**48KU51**

Brass Rod Stock

Dia.	Dia. Tolerance	Temper	1 ft Item No.	3 ft Item No.	6 ft Item No.
260 Alloy					
0.02 in	+/-0.002"	Half Hard	**48KT83**	—	—
0.032 in	+/-0.002"	Half Hard	**48KT84**	—	—
0.047 in	+/-0.002"	Half Hard	**48KT85**	—	—
0.0625 in	+/-0.002"	Half Hard	**48KT86**	—	—
	+/-0.002"	½ to ¾ Hard	—	**16NH91**	—
0.072 in	+/-0.002"	Half Hard	**48KT87**	—	—
0.081 in	+/-0.002"	Half Hard	**48KT88**	—	—
0.0938 in	+/-0.002"	½ to ¾ Hard	—	**16NH92**	—
0.094 in	+/-0.002"	Half Hard	**48KT89**	—	—
0.114 in	+/-0.002"	Half Hard	**48KT90**	—	—
0.125 in	+/-0.002"	Half Hard	**48KT91**	—	—
	+/-0.002"	½ to ¾ Hard	—	**16NH93**	—
0.156 in	+/-0.002"	Half Hard	**48KT92**	—	—
0.1563 in	+/-0.002"	½ to ¾ Hard	—	**16NH94**	—
0.187 in	+/-0.002"	Half Hard	**48KT93**	—	—
0.25 in	+/-0.002"	½ to ¾ Hard	—	**16NH95**	—
0.3125 in	+/-0.002"	½ to ¾ Hard	—	**16NH96**	—
0.375 in	+/-0.002"	½ to ¾ Hard	—	**16NH97**	—
360 Alloy					
0.125 in	+/-0.003"	Half Hard	—	—	**2ABL6**
0.1875 in	+/-0.003"	Half Hard	—	—	**2ABL7**
0.25 in	+/-0.003"	Half Hard	—	—	**2ABL8**
0.3125 in	+/-0.003"	Half Hard	—	—	**2ABL9**
0.375 in	+/-0.003"	Half Hard	—	**2AUJ7**	**2ABK4**
0.4375 in	+/-0.003"	Half Hard	—	—	**2AUJ8**
0.5 in	+/-0.003"	Half Hard	—	**2ABK5**	**2AUJ9**
0.5625 in	+/-0.003"	Half Hard	—	—	**2AUK1**
0.625 in	+/-0.003"	Half Hard	**2ABJ4**	**2ABK6**	**2AUK2**
0.75 in	+/-0.003"	Half Hard	**2ABK7**	**2ABJ5**	**2AUK3**
0.875 in	+/-0.003"	Half Hard	**2ABK8**	**2ABJ6**	**2AUK4**
1 in	+/-0.003"	Half Hard	**2ABK9**	**2ABJ7**	**2AUK5**
1.125 in	+/-0.003"	Half Hard	—	—	**2AUK6**
1.25 in	+/-0.003"	Half Hard	**2ABL1**	**2ABJ8**	**2ABN1**
1.375 in	+/-0.003"	Half Hard	—	—	**2ABN2**
1.5 in	+/-0.003"	Half Hard	**2ABL2**	**2ABN3**	**2ABJ9**
1.75 in	+/-0.003"	Half Hard	**2ABL3**	**2ABK1**	**2ABN5**
2 in	+/-0.003"	Half Hard	**2ABK2**	**2ABL4**	**2ABN6**
2.5 in	+/-0.004"	Half Hard	**2ABK3**	**2ABN7**	**2ABL5**

Brass Ball Stock

- +/- 0.001 in. Dia. tolerance
- B75 to 87 Rockwell hardness

Dia.	Item No.	Dia.	Item No.
CDA 270 Alloy		9/32 in	**4RJT2**
1/16 in	**49AE82**	5/16 in	**4RJT3**
3/32 in	**4RJR5**	11/32 in	**4RJT4**
1/8 in	**4RJR6**	3/8 in	**4RJT5**
5/32 in	**4RJR7**	7/16 in	**4RJT6**
3/16 in	**4RJR8**	1/2 in	**4RJT7**
7/32 in	**4RJR9**	5/8 in	**4VAW2**
1/4 in	**4RJT1**	3/4 in	**4VAW3**

Square & Flat Brass Stock

Thickness	W	1 ft Item No.	3 ft Item No.	6 ft Item No.
Flat Stock				
0.125"	1/4"	**1PTN1**	**1PTT6**	**1PTP8**
	3/8"	**1PTP9**	**1PTT7**	**1PTN2**
	1/2"	**1PTR1**	**1PTT8**	**1PTN3**
	5/8"	**1PTR2**	**1PTN4**	**1PTT9**
	3/4"	**1PTN6**	**1PTU2**	**1PTR4**
	1"	**1PTU3**	**1PTR5**	**1PTN7**
	1 1/4"	**1PTU4**	**1PTR6**	—
	1 1/2"	**1PTU5**	**1PTN9**	**1PTR7**
	1 3/4"	**1PTR9**	**1PTU7**	—
	2"	**1PTU8**	**1PTP3**	**1PTT1**
	2 1/2"	**1PTU9**	**1PTP4**	**1PTT2**
	3"	**1PTV1**	**1PTP5**	**1PTT3**
0.188"	1/4"	—	**1PTW5**	**1PTY3**
	3/8"	—	**1PTW6**	**1PTY4**
	1/2"	—	**1PTY5**	**1PTW7**
	5/8"	—	**1PTY6**	**1PTW8**
	3/4"	—	**1PTY7**	**1PTW9**
	1"	**1PTV4**	**1PTY9**	**1PTX2**
	1 1/4"	**1PTV5**	**1PTZ1**	**1PTX3**
	1 1/2"	**1PTV6**	**1PTZ2**	**1PTX4**
	2"	**1PTV7**	**1PTX5**	**1PTZ3**
	2 1/2"	**1PTV9**	**1PTZ5**	**1PTX7**
	3"	**1PTW1**	**1PTX8**	**1PTZ6**
	4"	**1PTZ7**	**1PTX9**	**1PTW2**
0.25"	5/16"	**1PVB8**	**1PVD6**	**1PVA1**
	3/8"	**1PVD7**	**1PVB9**	**1PVA2**
	1/2"	**1PVC1**	**1PVA3**	**1PVD8**
	5/8"	**1PVC2**	**1PVA4**	**1PVD9**
	3/4"	**1PVC3**	**1PVA5**	**1PVE1**
	1"	**1PVC5**	**1PVA7**	**1PVE3**
	1 1/4"	**1PVA8**	**1PVC6**	**1PVE4**
	1 1/4"	—	—	**1PTN8**
	1 1/2"	**1PVE5**	**1PVC7**	**1PVA9**
	2"	**1PVE6**	**1PVC8**	**1PVB1**
	2 1/2"	**1PVE8**	**1PVD1**	**1PVB3**
	3"	**1PVB4**	**1PVE9**	**1PVD2**
	4"	**1PVD3**	**1PVF1**	**1PVB5**
0.313"	3/8"	**1PVF7**	**1PVG3**	**1PVF2**
	1/2"	**1PVF8**	—	**1PVF4**
	5/8"	**1PVF5**	**1PVG6**	**1PVG1**
	1"	**1PVG7**	**1PVF6**	**1PVG2**
0.375"	1/2"	**1PVG8**	**1PVK6**	**1PVJ2**
	5/8"	**1PVG9**	**1PVK7**	**1PVJ4**
	3/4"	**1PVH2**	**1PVK8**	**1PVJ5**
	1"	**1PVH3**	**1PVK9**	**1PVJ6**
	1 1/4"	**1PVJ7**	**1PVH4**	**1PVL2**
	1 1/2"	**1PVH5**	**1PVJ9**	**1PVL3**
	2"	**1PVK1**	**1PVH6**	**1PVL4**
	2 1/2"	**1PVK2**	**1PVH8**	**1PVL5**
	3"	**1PVK3**	**1PVL7**	—
	4"	**1PVL8**	**1PVJ1**	**1PVK4**
0.5"	5/8"	**1PVN1**	**1PVR8**	**1PVP5**
	3/4"	**1PVN2**	**1PVP6**	**1PVR9**
	1"	**1PVP7**	**1PVN4**	**2ABC2**
	1 1/4"	**1PVN5**	**1PVP8**	**2ABC3**
	1 1/2"	**1PVP9**	**1PVN6**	**2ABC4**
	2"	**1PVN7**	**2ABC5**	**1PVR2**
	2 1/2"	**2ABC6**	**1PVN9**	**1PVR3**
	3"	**2ABC7**	**1PVR4**	**1PVP1**
	4"	**2ABC8**	**1PVR5**	**1PVP2**
0.625"	3/4"	—	**2ABE2**	**2ABD5**
	7/8"	**2ABC9**	**2ABE3**	**2ABD6**
	1"	**2ABD7**	**2ABE4**	**2ABD1**
	1 1/4"	**2ABD8**	**2ABE5**	**2ABD2**
	2"	**2ABD9**	**2ABE6**	**2ABD3**
0.75"	1"	**2ABF4**	**2ABF9**	**2ABE8**
	2"	**2ABE9**	**2ABG1**	**2ABF5**
	2 1/2"	**2ABF1**	**2ABG2**	**2ABF6**
	3"	**2ABF2**	**2ABG3**	**2ABF7**
1.0"	1 1/4"	**2ABG5**	—	**2ABH8**
	1 1/2"	**2ABH3**	**2ABH9**	**2ABG6**
	2"	**2ABJ1**	**2ABG7**	**2ABH4**
	2 1/2"	**2ABJ2**	**2ABG8**	**2ABH5**
	3"	**2ABJ3**	**2ABG9**	**2ABH6**
Square Stock				
0.188"	3/16"	—	**1PTW3**	**1PTY1**
0.25"	1/4"	**1PVB6**	**1PVD4**	**1PTZ8**
0.5"	1/2"	**1PVL9**	**1PVR7**	**1PVP3**
0.625"	5/8"	—	**2ABE1**	**2ABD4**
0.75"	3/4"	**2ABF3**	**2ABF8**	**2ABE7**
1.0"	1"	**2ABH1**	**2ABG4**	**2ABH7**

Bar Grating Information

Designed to provide safe, secure footing for many applications, bar grating is a strong choice for projects ranging from trenches to decking.

STAIR TREAD

Constructed like other bar grating, with stair-specific additional reinforcement and extra safety adjustments. A nosing is attached to the leading edge for increased edge visibility and slip resistance. Nosings may be grooved or checker plate (also known as diamond plate).

DEFINITIONS

Anchors—Devices that attach grating to its supports.

Band—A flat bar welded to the end of a grating panel or along the line of a cutout. Extends neither above nor below the bearing bars. A load-carrying band transfers the load from unsupported bearing bars to supported bearing bars. A trim band carries no load; used to improve appearance.

Bearing Bar—Load-carrying bar that extends in the direction of the span.

Cross Bar—The connecting bar that intersects or curves between the bearing bars and is welded, forged, or mechanically locked to them.

Cutout—An area of grating removed to clear an obstruction or let pipes, ducts, or columns pass through.

Grating—Open grid assembly of metal bars with bearing bars running in one direction, spaced by rigid attachment to cross bars that run perpendicularly or by bent connecting bars that extend between them.

Length—The span of grating or distance between points of grating support.

Width—Measured perpendicular to the bearing bars and in the same direction as the cross bars to determine the overall dimension of a grating panel.

SURFACES

Serrated—Grips shoes tightly for high slip resistance. Offers good slip protection in areas prone to oil or other hazardous materials.

Smooth—All-purpose slip-resistant design's texture is less harsh underfoot than serrated.

MATERIALS

Aluminum—Good where a lightweight, corrosion-resistant material is desired.

Steel—Strong material is good to use if the environment is not expressly corrosive.

304 Stainless Steel—Stronger than aluminum, stainless steel provides superior corrosion and oxidation resistance.

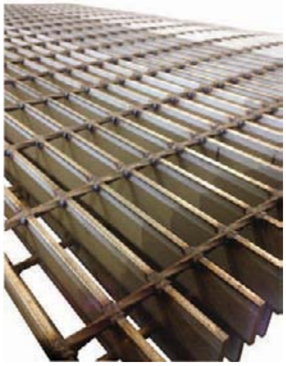
JOINING METHODS

Pressure Locked (Dovetail)—Cross bars are mechanically locked to the bearing bars at their intersections. Permanent joints give long-lasting service under normal conditions.

Riveted—Straight bearing bars and bent connecting bars are riveted together at their contact points. Reliable and durable.

Swage Locked—A cost-effective and reliable pressure locking method.

Welded—Joined at the intersection of the bearing bars and cross bars. A versatile choice for light to moderate loads. The most common way aluminum bar grating is manufactured.



Bar Grating

- Bearing bar spacing: 1.188"
- Cross bar spacing: 4"

Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

H	Span (Length)	Bearing Bar Thickness	Smooth Surface 24 in W Item No.	Smooth Surface 36 in W Item No.	Smooth Surface 48 in W Item No.	Serrated Surface 24 in W Item No.	Serrated Surface 36 in W Item No.	Serrated Surface 48 in W Item No.
Aluminum								
1 in	24 in	0.125 in	49N295	49N302	—	—	—	—
	36 in	0.125 in	49N296	49N303	—	—	—	—
		0.188 in	49N315	49N321	49N327	49N424	49N430	49N436
	48 in	0.188 in	49N316	49N322	49N328	49N425	49N431	49N437
	72 in	0.125 in	49N298	49N305	—	—	—	—
		0.188 in	49N317	49N323	49N329	49N426	49N432	49N438
	96 in	0.125 in	49N299	49N306	—	—	—	—
		0.188 in	49N318	49N324	49N330	49N427	49N433	49N439
	120 in	0.125 in	49N301	49N307	—	—	—	—
		0.188 in	49N319	49N325	49N331	49N428	—	49N440
304 Stainless Steel								
1 in	24 in	0.188 in	49N223	49N229	—	49N259	49N265	—
	36 in	0.188 in	49N224	49N230	—	49N260	49N266	—
	48 in	0.188 in	49N225	49N231	—	49N261	49N267	—
	72 in	0.188 in	49N226	49N232	—	49N262	49N268	—
	96 in	0.188 in	49N227	49N233	—	49N263	49N269	—
	120 in	0.188 in	49N228	49N234	—	49N264	49N270	—

H	Span (Length)	Bearing Bar Thickness	Black Painted Steel Serrated Surface 24" W Item No.	Black Painted Steel Serrated Surface 36" W Item No.	Black Painted Steel Smooth Surface 24" W Item No.	Black Painted Steel Smooth Surface 36" W Item No.	Galvanized Steel Serrated Surface 24" W Item No.	Galvanized Steel Serrated Surface 36" W Item No.	Galvanized Steel Smooth Surface 24" W Item No.	Galvanized Steel Smooth Surface 36" W Item No.	Carbon Steel Serrated Surface 24" W Item No.	Carbon Steel Serrated Surface 36" W Item No.
Painted/Galvanized Steel												
1"	24"	0.125 in	49N005	49N011	49M895	49M902	49N174	49N180	49N065	—	—	—
	24"	0.188 in	—	—	49M908	—	—	—	49N077	—	—	—
	24"	0.25 in	—	—	—	49M926	—	—	—	49N095	—	—
	36"	0.125 in	49N006	—	49M896	49M903	49N175	49N181	49N066	49N072	38MF44	38MH65
	36"	0.188 in	—	—	49M909	49M915	49N187	49N193	49N078	49N084	—	—
	36"	0.25 in	—	—	—	49M927	—	—	—	49N096	—	—
	48"	0.125 in	49N007	49N013	49M897	49M904	49N176	49N182	49N067	49N073	38ME16	38MD70
	48"	0.188 in	49N019	49N025	49M910	49M916	49N188	49N194	49N079	—	—	—
	48"	0.25 in	—	—	—	—	—	—	—	49N097	—	—
	72"	0.125 in	49N008	49N014	49M898	49M905	49N177	49N183	49N068	—	38MJ39	38MG95
	72"	0.188 in	—	—	49M911	49M917	—	—	49N080	49N086	—	—
	96"	0.125 in	49N009	49N015	—	49M906	49N178	49N184	49N069	49N075	—	—
	96"	0.188 in	—	—	49M912	—	—	—	49N081	49N087	—	—
	96"	0.25 in	—	—	—	49M930	—	—	—	49N099	—	—
	120"	0.125 in	49N010	49N016	49M901	49M907	49N179	49N185	49N070	—	38MG26	38MD48
	120"	0.188 in	—	49N028	49M913	—	49N191	49N197	—	—	—	—
	120"	0.25 in	—	—	—	49M931	—	—	—	—	—	—
	144"	0.125 in	—	—	—	—	—	—	—	38MG75	—	—
	144"	0.188 in	—	—	—	38ML30	—	—	—	38MD05	—	—
1.25"	36"	0.188 in	—	—	—	—	49N199	49N206	—	—	—	—
	48"	0.188 in	49N031	—	—	—	—	49N207	—	—	—	—
	96"	0.188 in	—	—	—	—	49N203	49N209	—	—	—	—
	120"	0.188 in	49N034	49N040	—	—	49N204	49N210	—	—	—	—
1.5"	24"	0.188 in	49N041	—	—	—	—	—	—	—	38MF40	—
	36"	0.188 in	49N042	—	—	—	—	—	—	—	38MK22	—
	48"	0.188 in	—	49N049	—	—	—	49N219	—	—	—	38MJ68
	144"	0.188 in	—	38ML81	—	—	—	38MC79	—	—	38MC62	—
2"	36"	0.188 in	—	38MG21	—	—	—	38ML60	—	—	—	—
	120"	0.188 in	38MF52	—	—	—	38MD53	38MG18	—	—	—	38MJ34

49N558

Bar Grating—Stair Tread

- End plates: 2.5"
- Bearing bar spacing: 1.188"
- Bearing bar thickness: 0.188"

Aluminum treads feature grooved nosing. Steel models have checker-plated nosing.

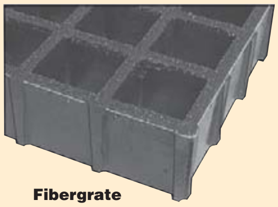
Note: Additional sizes are available; call 1-800-GRAINGER (472-4643).

No. of Bearing Bars	Tread Width	Tread Depth	Height	Smooth Surface Item No.	Serrated Surface Item No.
Aluminum, Grooved Nosing					
6	24 in	7 3/8 in	1.25"	—	49N564
7	18 in	8 9/16 in	1.25"	49N559	49N563
	24 in	8 9/16 in	1.25"	49N561	49N565
	30 in	8 9/16 in	1.25"	49N562	49N566
Black Painted Steel, Checker Plate Nosing					
7	24 in	8 9/16 in	1"	49N514	49N539
	30 in	8 9/16 in	1"	49N516	49N541
8	24 in	9 3/4 in	1"	49N515	49N540
	30 in	9 3/4 in	1"	49N517	49N542
	36 in	9 3/4 in	1"	49N519	—
	36 in	9 3/4 in	1 1/4"	49N522	—
9	30 in	10 15/16 in	1"	49N518	49N543
	36 in	10 15/16 in	1"	49N520	—
	36 in	10 15/16 in	1 1/4"	49N523	49N545
	42 in	10 15/16 in	1 1/4"	49N524	49N546
	48 in	10 15/16 in	1 1/4"	49N525	49N547
10	36 in	12 1/8 in	1"	49N521	—
	36 in	12 1/8 in	1 1/4"	49N526	49N548

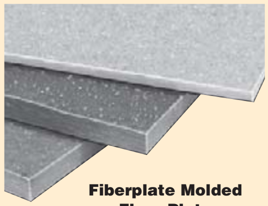
No. of Bearing Bars	Tread Width	Tread Depth	Height	Smooth Surface Item No.	Serrated Surface Item No.
Galvanized Steel, Checker Plate Nosing					
7	24 in	8 9/16 in	1"	49N527	49N549
	30 in	8 9/16 in	1"	—	49N551
8	24 in	9 3/4 in	1"	49N528	49N550
	30 in	9 3/4 in	1"	49N530	49N552
	36 in	9 3/4 in	1 1/4"	—	49N554
9	30 in	10 15/16 in	1"	49N531	49N553
	36 in	9 3/4 in	1 1/4"	49N534	—
	36 in	10 15/16 in	1 1/4"	49N535	49N555
	42 in	10 15/16 in	1 1/4"	49N536	49N556
	48 in	10 15/16 in	1 1/4"	49N537	49N557
10	36 in	12 1/8 in	1"	49N533	—
	36 in	12 1/8 in	1 1/4"	49N538	49N558
Stainless Steel, Checker Plate Nosing					
8	36 in	9 3/4 in	1.25"	49N568	—
9	36 in	10 15/16 in	1.25"	49N569	—
10	36 in	12 1/8 in	1"	49N567	—
	36 in	12 1/8 in	1.25"	49N570	—

Fibertred Corvex Molded

Safe-T-Span Industrial Pultruded Grating



Fibergrate Molded Grating



Fiberplate Molded Floor Plate

Fiberglass Information

MOLDED GRATING

- **No more than ¼" deflection for recommended loads**

Provide reliable corrosion-, impact-, and slip-resistant surfaces.

Corvex—Premium polyester grating.

FGI-AM Antimicrobial Premium Polyester—Food-grade formulation inhibits bacteria, fungus, and mildew growth. USDA accepted.

Micro-Mesh Corvex—Lightweight sheets for use where underfloor access and unobstructed airflow is required.

Vi-Corr High Load Capacity—Engineered to carry forklift loads.

PULTRUDED GRATING

Safe-T-Span Pedestrian and Industrial—Manufactured from a fire-retardant isophthalic polyester resin system (ISOFR).

MOLTRUDED GRATING

Combines corrosion resistance of molded grating with longer span capacity of pultruded grating.

Rigidex—Large openings allow greater airflow for walkways and platforms.

Aqua Grate—Withstands corrosion and helps provide safety and comfort for walking with bare feet in high-traffic, public recreational areas. Meets ADA guidelines.

FIBERPLATE

Solid composite panels offer bidirectional strength.

DEFINITIONS

Ultimate Capacity—Represents the weight which, if exceeded, will result in a complete and total failure of the grating.

ISOFR—Isophthalic Polyester Fire Retardant Resin formulation has a flame spread rating of 25 or less. Designed for applications where moderate exposure to corrosive elements exists.

VEFR—Vinyl Ester Fire Retardant Resin. For severe exposure to corrosive elements.

Applied Grit Top—Quartz grit applied to surface for slip-resistant footing.

Meniscus Top—Concave surface provides highly slip-resistant footing in most environments, including in wet or oily conditions.

Brand	Resin	Mesh	Corrosion Resist.	Strength/ Stiffness (Longest Span)	Impact Resistance	Open Area	Single-Direction Span	Bi-Direction Span	Ease of Layout and Installation	Surface	Color	Max. Temp. (°F)
Molded Grating												
Corvex®	Polyester	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Grit Top	Multiple	140
		Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent			
Corvex® Covered	Polyester	—	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent	Grit Top	Dark Grey	140
FGI-AM®	Antimicrobial Polyester	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Grit Top	Light Grey	140
		Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent			
Micro-Mesh® Corvex®	Polyester	Square	Excellent	Good	Excellent	Excellent	Fair	Excellent	Excellent	Meniscus Top	Dark Grey	140
Vi-Corr® High Load Capacity	VEFR	Rect.	Excellent	Good	Good	Excellent	Good	Poor	Fair	Smooth Top	Dark Grey	180
Pultruded Grating												
Safe-T-Span® Pedestrian	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	Poor	Fair	Grit Top	Dark Grey	140
Safe-T-Span® Industrial	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	Poor	Fair	Grit Top	Yellow	140
Pultruded Stair Tread												
Safe-T-Span®	ISOFR	—	Good	Excellent	Fair	Fair	Excellent	—	Fair	Grit Top	Yellow with Black Nosing	140
Moltruded® Grating												
Rigidex® I	Polyester	Rect.	Excellent	Good	Poor	Excellent	Excellent	Poor	Fair	Grit Top	Light Grey	140
Fiberplate® Plate												
Corvex®	Polyester	—	Excellent	Good	Good	—	Good	Excellent	Fair	Grit Top	Dark Grey	140
Vi-Corr®	VEFR	—	Excellent	Good	Good	—	Good	Excellent	Fair	Grit Top	Dark Grey	180

Fiberplate (FRP) Molded Floor Plates

- Grit top
- Dark gray
- Width and length tolerances: ±0.125"

Install over slick metallic or concrete surfaces to improve slip resistance. Lightweight, corrosion-resistant, and easy to fabricate. ⅛" and ¼" plates are designed for covering only, not recommended for load bearing service.

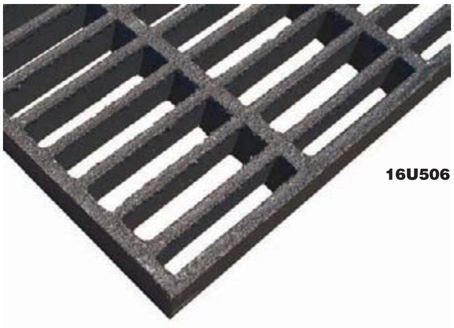
4ATE4

Thickness	Thickness Tolerance*	12 in x 12 in Item No.	12 in x 24 in Item No.	24 in x 24 in Item No.	48 in x 48 in Item No.	48 in x 96 in Item No.
Corvex Plates						
⅛ in	+0.0938 in /-0.032 in	**4ATE2**	—	**4ATE6**	**4ATF1**	**4ATF5**
¼ in	+0.125/-0.063 in	**4ATE3**	—	**4ATE7**	**4ATF2**	**4ATF6**
⅜ in	+0.125/-0.063 in	**4ATE4**	—	**4ATE8**	**4ATF3**	**4ATF7**
½ in	+0.125/-0.063 in	**4ATE5**	—	**4ATE9**	**4ATF4**	**4ATF8**
Vi-Corr Plates						
⅛ in	+0.0938 in /-0.032 in	**4ATF9**	**4ATG4**	**4ATG8**	**4ATH3**	—
¼ in	+0.125/-0.063 in	**4ATG1**	**4ATG5**	**4ATG9**	**4ATH4**	—
⅜ in	+0.125/-0.063 in	**4ATG2**	**4ATG6**	**4ATH1**	**4ATH5**	—
½ in	+0.125/-0.063 in	**4ATG3**	**4ATG7**	**4ATH2**	**4ATH6**	—

Thickness (in.)	Span (in.)	Max. Load (psf) Normal*	Max. Load (psf) Firm†	Load (psf) 25	Load (psf) 50	Load (psf) 75	Concentrated Load Required to Produce Deflection Equal to 1% of Span
⅜"	36	28	17	0.258	—	—	192 lbs.
½"		49	30	0.153	0.297	0.441	318 lbs.

** Normal load is the load that will produce a maximum deflection of 0.375" or L/D of 125".*

† Firm is the load which will produce a maximum deflection of 0.25" or L/D of 200".



16U506

Fibergrate
Composite Structures

Corvex Molded Grating

- Gritted antislip surface

Corvex isophthalic polyester resin system offers a high level of corrosion resistance for use in industrial, chemical processing, and water/wastewater applications.

4ATR8

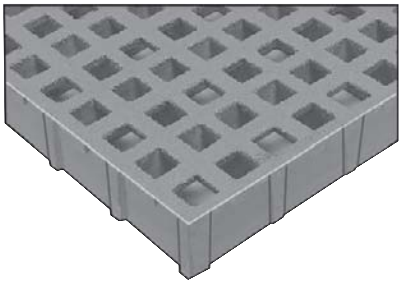
Width	Span	Mesh Size	Bearing Bar Spacing Ctr.-to-Ctr.	DARK GRAY Item No.	GREEN Item No.	YELLOW Item No.
1 in Depth						
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	16U517	4ATT5	16U515
	10 ft.	1½ in x 1½ in	1 ½ in	16U516	4ATT1	16U514
4 ft	4 ft.	1 in x 4 in	1 in	16U511	4ATT2	16U509
	4 ft.	1½ in x 1½ in	1 ½ in	16U521	4ATT6	16U519
	8 ft.	1½ in x 1½ in	1 ½ in	16U520	4ATR8	16U518
5 ft	3 ft.	1 in x 4 in	1 in	16U507	4ATT4	16U505
8 ft	4 ft.	1 in x 4 in	1 in	16U510	4ATR9	16U508
10 ft	3 ft.	1 in x 4 in	1 in	16U506	4ATT3	16U504
1-½ in Depth						
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	4ATU1	4ATT8	16U513
	10 ft.	1½ in x 1½ in	1 ½ in	4ATT9	4ATT7	16U512
4 ft	4 ft.	1½ in x 1½ in	1 ½ in	4ATU9	4ATU5	4ATV3
	6 ft.	1½ in x 1½ in	1 ½ in	4ATU8	4ATU4	4ATV2
	8 ft.	1½ in x 1½ in	1 ½ in	4ATU6	4ATU2	16U522
	12 ft.	1½ in x 1½ in	1 ½ in	4ATU7	4ATU3	4ATV1
2 in Depth						
4 ft	6 ft.	2 in x 2 in	2 in	4ATV7	4ATV5	16U524
	12 ft.	2 in x 2 in	2 in	4ATV6	4ATV4	16U523

Fibergrate
Composite Structures

Micro-Mesh Corvex Molded Grating

- Bearing bar width: 0.25"
- Bearing bar spacing center-to-center: 1½"
- Dark gray
- Corvex Resin System

Offers lightweight bidirectional strength. For walkways, platforms, trench covers, and catwalks.



Width	Span	Depth	Mesh Size	Item No.
4 ft	12 ft.	1 ½ in	¾ in x ¾ in	4ATW3

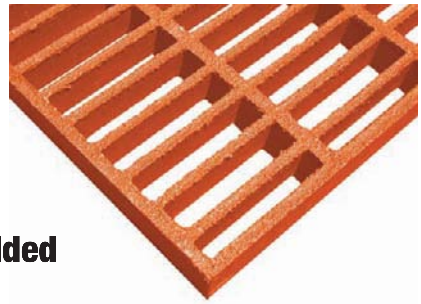
Fibergrate
Composite Structures

FGI-AM Molded Grating-Food Grade

- Light gray

FGI-AM fire-retardant food-grade resin system has antimicrobial properties that help protect the product itself from corrosion, while meeting the requirements of the food and beverage industry. For nonpublic health use only.

W	Span	Mesh Size	Spacing Ctr.-to-Ctr.	Item No.
1" Depth				
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	4ATX3
	10 ft.	1½ in x 1½ in	1 ½ in	4ATX2
4 ft	4 ft.	1 in x 4 in	1 in	4ATX5
	4 ft.	1½ in x 1½ in	1 ½ in	4ATX4
	8 ft.	1½ in x 1½ in	1 ½ in	4ATX6
5 ft	3 ft.	1 in x 4 in	1 in	4ATX7
8 ft	4 ft.	1 in x 4 in	1 in	4ATX8
10 ft	3 ft.	1 in x 4 in	1 in	4ATX1
1½" Depth				
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	4ATW5
	10 ft.	1½ in x 1½ in	1 ½ in	4ATW4
4 ft	4 ft.	1½ in x 1½ in	1 ½ in	4ATW7
	6 ft.	1½ in x 1½ in	1 ½ in	4ATW8
	8 ft.	1½ in x 1½ in	1 ½ in	4ATW9
	12 ft.	1½ in x 1½ in	1 ½ in	4ATW6
2" Depth				
4 ft	6 ft.	2 in x 2 in	2 in	4ATY1
	12 ft.	2 in x 2 in	2 in	4ATX9



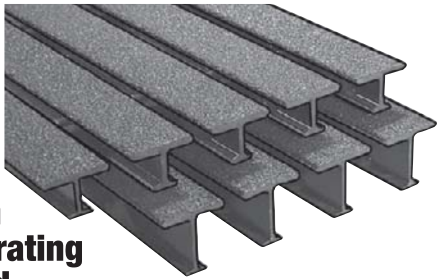
Fibergrate
Composite Structures

Vi-Corr Molded Grating

Vi-Corr superior vinyl ester resin offers outstanding corrosive resistance to highly caustic and acidic environments.

W	Span	Mesh Size	Spacing Ctr.-to-Ctr.	Color	Item No.	Pkg. Qty.
1" Depth						
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	Orange	16U494	1
	10 ft.	1½ in x 1½ in	1 ½ in	Orange	16U493	1
4 ft	4 ft.	1 in x 4 in	1 in	Orange	16U490	2
	4 ft.	1½ in x 1½ in	1 ½ in	Orange	16U498	1
	8 ft.	1½ in x 1½ in	1 ½ in	Orange	16U497	1
5 ft	3 ft.	1 in x 4 in	1 in	Orange	16U488	2
8 ft	4 ft.	1 in x 4 in	1 in	Orange	16U489	1
10 ft	3 ft.	1 in x 4 in	1 in	Orange	16U487	1
1½" Depth						
3 ft	5 ft.	1½ in x 1½ in	1 ½ in	Orange	16U492	2
	10 ft.	1½ in x 1½ in	1 ½ in	Orange	16U491	1
4 ft	4 ft.	1½ in x 1½ in	1 ½ in	Orange	16U496	2
	6 ft.	1½ in x 1½ in	1 ½ in	Orange	16U495	1
	8 ft.	1½ in x 1½ in	1 ½ in	Orange	16U501	1
	12 ft.	1½ in x 1½ in	1 ½ in	Orange	16U499	1
2" Depth						
3 ft	8 ft.	None	2 in	Dark Gray	49AL39	1
4 ft	6 ft.	2 in x 2 in	2 in	Orange	16U503	2
	12 ft.	2 in x 2 in	2 in	Orange	16U502	1

I-Shaped



T-Shaped

Fibergrate Composite Structures

Safe-T-Span Pultruded Grating & Stair Tread

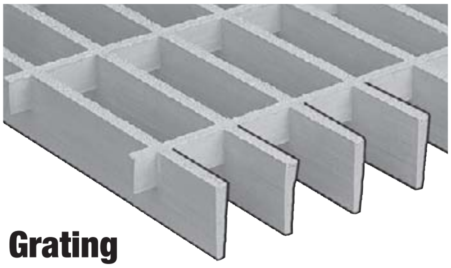
- Grit top

Nonconductive, lightweight grating is manufactured from a fire-retardant isophthalic polyester resin system (ISOFR). Corrosion- and slip-resistant material replaces steel bar grating. A high percentage of glass provides durability and high unidirectional strength and stiffness, making this the ideal solution for applications where longer support spans are required. Supports loads in the span direction only.

Span	Bearing Bar Width	Spacing Center-to-Center	2 FT W Item No.	3 FT W Item No.	4 FT W Item No.
Industrial Pultruded Grating					
I4010, 1 in Depth, Dark Gray					
12 ft.	0.6 in	1 in	—	49AL23	—
I4010, 1 in Depth, Yellow					
10 ft.	0.6 in	1 in	—	49AL04	49AL07
12 ft.			—	—	49AL08
I4015, 1 ½ in Depth, Yellow					
8 ft.	0.6 in	1 in	—	—	49AL15
I6010, 1 in Depth, Dark Gray					
8 ft.			—	49AK84	—
10 ft.	0.6 in	1 ½ in	—	—	49AK88
12 ft.			—	49AK86	—
I6010, 1 in Depth, Yellow					
3 ft.	0.6 in	1 ½ in	4AUA9	4AUA8	4AUD1
4 ft.			4AUC4	4AUA3	4AUC5
5 ft.			4AUC7	4AUC2	4AUC8
6 ft.			4AUC3	4AUC6	4AUC9
8 ft.			4AUA6	4AUC1	4AUA4
10 ft.			—	4AUA2	4AUA5
I6015, 1 ½ in Depth, Dark Gray					
8 ft.	0.6 in	1 ½ in	—	49AK93	—
12 ft.			—	49AK95	—
I6015, 1 ½ in Depth, Yellow					
3 ft.	0.6 in	1 ½ in	4AUE4	4AUD8	4AUE9
4 ft.			4AUD9	4AUD3	4AUE1
5 ft.			4AUE6	4AUE8	4AUF1
6 ft.			4AUD4	4AUD6	4AUE7
8 ft.			—	4AUE3	4AUE2
10 ft.			—	4AUD2	4AUD7
T5020, 2 in Depth, Dark Gray					
8 ft.	1 in	2 in	—	—	49AL42
T5020, 2 in Depth, Yellow					
3 ft.	1 in	2 in	4AUH3	4AUF8	4AUH8
4 ft.			4AUH5	4AUJ1	4AUF2
5 ft.			4AUF5	4AUH6	4AUH7
6 ft.			4AUF9	4AUH9	4AUF4
8 ft.			—	4AUH1	4AUF3
10 ft.			—	4AUF6	4AUH2
Pedestrian Pultruded Grating					
T2510, 1 in Depth, Dark Gray					
3 ft.	1.5 in	2 in	4AUJ3	4AUJ5	4AUK9
4 ft.			4AUJ2	4AUK5	4AUJ8
5 ft.			4AUK7	4AUK3	4AUK8
6 ft.			4AUK4	4AUK6	4AUJ7
8 ft.			—	4AUJ4	4AUK2
10 ft.			—	4AUJ9	4AUK1
T2515, 1 ½ in Depth, Dark Gray					
3 ft.	1.5 in	2 in	4AUN8	4AUL3	4AUN9
4 ft.			4AUN1	4AUL7	4AUN2
5 ft.			4AUL4	4AUN3	4AUN7
6 ft.			4AUN6	4AUN4	4AUP1
8 ft.			—	4AUL5	4AUL9
10 ft.			—	4AUL2	4AUN5

W	D	Bearing Bar Width	Bearing Bar Height	Mesh	Mesh Size	Color	Item No.
Safe-T-Span® Stair Tread							
2 ft	10 ½ in	0.6 in	1 in	Rectangular	1½ x 6 in	Yellow With Black Nosing	4AUP2
2 ft	10 ½ in	0.6 in	1 ½ in				4AUP5
2 ½ ft	10 ½ in	0.6 in	1 in				4AUP3
2 ½ ft	10 ½ in	0.6 in	1 ½ in				4AUP4
3 ft	10 ½ in	0.6 in	1 ½ in				4AUP6

Fibergrate Composite Structures



Rigidex Moltruded Grating

- Corvex polyester resin
- 1½" thick
- Light gray

Light-duty grating has large openings that allow greater airflow. For walkways and platforms.

Mesh Size	Clear Span (in.)	Load (psf) 50	65	100	200	Max Recommended Load (psf)	Ultimate Capacity (psf)
1½ x 4"	36	0.08	0.11	0.17	0.34	845	1690

Span	Bearing Bar Width	Spacing Center-to-Center	2 FT W Item No.	3 FT W Item No.	4 FT W Item No.
1 ½ in Depth					
3 ft.	0.27 in	1 ½ in	4AUP7	4AUR1	4AUR4
4 ft.	0.27 in	1 ½ in	4AUP8	4AUR2	4AUR5
6 ft.	0.27 in	1 ½ in	4AUP9	4AUR3	4AUR6
8 ft.	0.27 in	1 ½ in	—	—	4AUR7

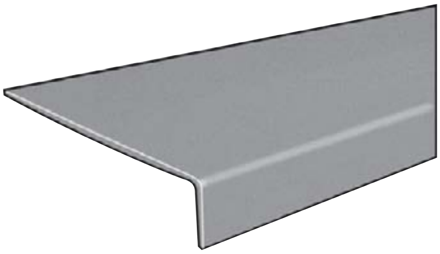
Fibergrate Composite Structures

Aqua Grate

- Light gray

Lightweight, pultruded pedestrian grating withstands corrosion. Helps provide safety and comfort for walking with bare feet in high-traffic, public recreational areas. Fine grit surface provides a high level of slip resistance. Protection against long-term UV exposure is provided by a synthetic surfacing veil and UV inhibitors in the resin formulation. Features nominal ¼" space between the 1½" wide bearing bars.

W	Span	Spacing Ctr.-to-Ctr.	Item No.
T1210, 1" Depth			
3 ft	10 ft.	$1\frac{23}{32}$ in	49AK67
4 ft	8 ft.	$1\frac{23}{32}$ in	49AK69
5 ft	10 ft.	$1\frac{23}{32}$ in	49AK73
T1215, 1½" Depth			
3 ft	8 ft.	$1\frac{23}{32}$ in	49AK75



Fibergrate Composite Structures

Molded Stair Tread Covers

- A/O grit surface
- ⅛" thick
- Corvex

Can be fabricated and installed over existing steps to provide a slip-resistant walking surface. Corrosion resistant. OSHA approved with yellow nosing.

W	D	Item No.
Dark Gray		
3 ft	12 in	16U527
4 ft	12 in	16U526
12 ft	12 in	16U525
Dark Gray with Yellow Nosing		
36 in	12 in	4ATZ2
48 in	12 in	4ATZ3
144 in	10 in	4ATY8
	11 in	4ATY9
	12 in	4ATZ1

W	D	Item No.
Green		
3 ft	12 in	16U530
4 ft	12 in	16U529
12 ft	12 in	16U528
Light Gray		
144 in	10 in	4ATZ6
	12 in	4ATZ7
Yellow		
3 ft	12 in	16U533
4 ft	12 in	16U532
12 ft	12 in	16U531

Round Tube

Square Tube

Standard I-Beam

U-Channel

Cylindrical Rod

Fibergrate Composite Structures

Dynaform Structural Shapes

- Temp. range: -100° to 150°F
- Tensile strength: 30,000 psi; except cylindrical rods are 100,000 psi

Resin material is ideal for platforms, walkways, and equipment support. Isophthalic polyester resin formulation (ISOFR) provides a low flame-spread rating of 25 or less (when tested according to ASTM E-84). Cylindrical rods are made of olive green ispophthalic polyester (ISO) resin which resists a wide array of chemicals and highly acidic conditions. Not fire retardant.

Inside Dia.	Outside Dia.	Outside Dia. Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Round Tubes						
¾ in	1 in	+/-0.020 in	⅛ in	+/-0.019 in	**4ATR2**	**4ATR5**
1 ¼ in	1 ½ in	+/-0.020 in	⅛ in	+/-0.019 in	**4ATR3**	**4ATR6**
1 ½ in	2 in	+/-0.040 in	¼ in	+/-0.038 in	**4ATR4**	**4ATR7**

Inside Square	Outside Square	Outside Square Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Square Tubes						
¾ in	1 in	+/-0.020 in	0.125 in	+/-0.019 in	**4ATN8**	**4ATP5**
1 ¼ in	1 ½ in	+/-0.020 in	0.125 in	+/-0.019 in	**4ATN9**	**4ATP6**
1 ¾ in	2 in	+/-0.020 in	0.125 in	+/-0.019 in	**4ATP1**	**4ATP7**
1 ½ in	2 in	+/-0.020 in	0.25 in	+/-0.038 in	**4ATP2**	**4ATP8**
2 ½ in	3 in	+/-0.040 in	0.25 in	+/-0.038 in	**4ATP3**	**4ATP9**
3 ½ in	4 in	+/-0.040 in	0.25 in	+/-0.038 in	**4ATP4**	**4ATR1**

H	W	Thickness	Length Tolerance	10 ft L Item No.	10 FT L Item No.	20 ft L Item No.	20 FT L Item No.
Standard I-Beams							
4 in	2 in	¼ in	—	**4AUU2**	—	**4AUU1**	—
6 in	3 in	¼ in	—	**4AUU4**	—	**4AUU3**	—
Wide Flanged I-Beams							
4 in	4 in	¼ in	+/-0.125 in	—	**4AUT5**	**4AUT4**	—
6 in	6 in	¼ in	+/-0.125 in	**4AUT7**	—	**4AUT6**	—
6 in	6 in	⅜ in	+/-0.125 in	**4AUT9**	—	—	**4AUT8**

Leg Length	Base Width	Base Width Tolerance	Wall Thickness	Wall Thickness Tolerance	5-FT. L* Item No.	10-FT. L‡ Item No.
U-Channels						
9⁄16 in	2 in	+/-0.094 in	⅛ in	+/-0.010 in	**4ATM3**	**4ATN1**
⅞ in	3 in	+/-0.094 in	¼ in	+/-0.010 in	**4ATM4**	**4ATN2**
1 ⅛ in	4 in	+/-0.094 in	¼ in	+/-0.010 in	**4ATM5**	**4ATN3**
1 ⅝ in	6 in	+/-0.094 in	¼ in	+/-0.010 in	**4ATM6**	**4ATN4**
1 11⁄16 in	6 in	+/-0.094 in	⅜ in	+/-0.010 in	**4ATM7**	**4ATN5**
2 3⁄16 in	8 in	+/-0.094 in	⅜ in	+/-0.010 in	**4ATM8**	**4ATN6**
2 ¾ in	10 in	+/-0.094 in	½ in	+/-0.010 in	**4ATM9**	**4ATN7**

Dia.	Dia. Tolerance	5-FT. L* Item No.	10-FT. L† Item No.
Cylindrical Rods			
¼ in	+/-0.010 in	**4ATK9**	**4ATL6**
⅜ in	+/-0.010 in	**4ATL1**	**4ATL7**
½ in	+/-0.010 in	**4ATL2**	**4ATL8**
¾ in	+/-0.010 in	**4ATL3**	**4ATL9**
1 in	+/-0.010 in	**4ATL4**	**4ATM1**
1 ¼ in	+/-0.010 in	**4ATL5**	**4ATM2**

** Length Tolerance ±0.1875", † Length Tolerance ±0.125"; ‡ Length tolerance: ±0.094"*

90°

EZ Angle® Concrete Embedment

Y Concrete Embedment

Fibergrate Composite Structures

Dynaform Fiberglass Angle

- Leg length tolerance: ±0.094"
- Thickness tolerance: ±0.010"
- Tensile strength: 30,000 psi

90°—Use for constructing structural support systems, including platforms, walkways, and equipment support. Made from an isophthalic polyester fire-retardant resin (ISOFR).

- Temp. range: -100° to 150°F

EZ Angle Concrete Embedment—Install at edge of concrete trenches to support trench gratings. Made from a fire-retardant vinyl ester (VEFR) resin.

- Temp. range: -100° to 180°F

Y Concrete Embedment—Use in place of steel concrete embedment angles. Install at edge of trenches where gratings are supported. Made from a fire-retardant vinyl ester (VEFR) resin.

- Temp range: -100° to 180°F

Leg Length	5 ft L Item No.	10 ft L Item No.
90 Degree		
⅛ in Thick		
1 in x 1 in	**4ATH7**	**4ATJ8**
¼ in Thick		
1½ in x 1½ in	**4ATH8**	**4ATJ9**
2 in x 2 in	**4ATH9**	**4ATK1**
3 in x 3 in	**4ATJ1**	**4ATK2**
4 in x 4 in	**4ATJ3**	**4ATK4**
⅜ in Thick		
3 in x 3 in	**4ATJ2**	**4ATK3**
4 in x 4 in	**4ATJ4**	**4ATK5**
6 in x 6 in	**4ATJ6**	**4ATK7**
½ in Thick		
4 in x 4 in	**4ATJ5**	**4ATK6**
6 in x 6 in	**4ATJ7**	**4ATK8**

Leg Length	20 ft L Item No.
EZ Angle Concrete Embedment	
¼ in Thick	
1 in x 1½ in	**4AUR9**
2 in x 1½ in	**4AUR8**
Y Concrete Embedment	
¼ in Thick	
1 in x 1½ in	**4AUT1**
2 in x 1½ in	**4AUT3**

Threaded Rod

Square Nut

Hex Nut

Fibergrate Composite Structures

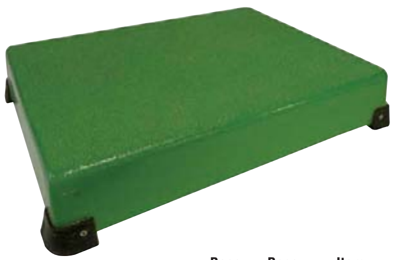
Fiberglass Accessories

- Threaded rod temp. range: -100° to 180°F

Description	Size	Material	Brand	Item No.
Fully Threaded Rod	½"-13 Thread, 4 ft	Vinyl Ester Resin	—	**4AUU5**
	¾"-10 Thread, 4 ft			**4AUU6**
Square Nut	½"-13 Thread		Dynaform	**4AUU7**
	¾"-10 Thread			**4AUU8**
Hex Nut	½"-13 Thread	Isoplast		**4AUV2**
	¾"-10 Thread			**4AUV3**
Flat Washer	½" I.D., 1⅜" O.D.	Nylon		**4AUU9**
	¾" I.D., 1¾" O.D.			**4AUV1**

Fibergrate Composite Structures

Safe-T-Stand Portable Work Platforms



- Max. weight: 300 lb.
- Max. temp.: 150°F
- Green color
- FGI-AM resin

Provide a comfortable working height for work stations. A/O grit platform surface with slip-resistant rubber feet.

H	Base Width	Base Length	Item No.
2"	25⅜"	25⅜"	**4ATZ8**
4"	25¾"	25¾"	**4ATZ9**
6"	26⅛"	26⅛"	**4AUA1**

Water-Resistant Closed Cell Tool Organizer Foam Sheets

- Polyethylene
- Charcoal/Blue color

Thickness	Width	Length	Item No.
1 in	24 in	27 in	5GDA2
1 ½ in	24 in	27 in	5GDA1
2 in	24 in	27 in	5GDA3

Silicone Foam Tubes

- 5 Ft. length
- Red
- Tensile Strength 200 (PSI)

Silicone foam tube is commonly used to create seals and washers for high-heat and outdoor applications. It withstands high temperatures and has excellent resistance to UV rays.

Inside Dia.	Outside Dia.	Item No.
¼ in	¾ in	497L02
⅜ in	⅞ in	497L03
½ in	1 in	497L04
¾ in	1 ¼ in	497L05
1 in	1 ½ in	497L06

Foam Cord

Dia.	L	Tensile Strength	Item No.
Neoprene Water-Resistant Foam Cords			
Black			
⅛ in	3 ft	100 psi	497K48
	15 ft	100 psi	497K47
	30 ft	100 psi	497K46
	100 ft	100 psi	497K45
	300 ft	100 psi	497K44
3⁄16 in	3 ft	100 psi	497K53
	15 ft	100 psi	497K52
	30 ft	100 psi	497K51
	100 ft	100 psi	497K50
	300 ft	100 psi	497K49
¼ in	3 ft	100 psi	497K58
	15 ft	100 psi	497K57
	30 ft	100 psi	497K56
	100 ft	100 psi	497K55
	300 ft	100 psi	497K54
5⁄16 in	3 ft	100 psi	497K63
	15 ft	100 psi	497K62
	30 ft	100 psi	497K61
	100 ft	100 psi	497K60
	300 ft	100 psi	497K59
⅜ in	3 ft	100 psi	497K68
	15 ft	100 psi	497K67
	30 ft	100 psi	497K66
	100 ft	100 psi	497K65
	300 ft	100 psi	497K64
½ in	3 ft	100 psi	497K73
	15 ft	100 psi	497K72
	30 ft	100 psi	497K71
	100 ft	100 psi	497K70
	300 ft	100 psi	497K69
⅝ in	3 ft	100 psi	497K77
	15 ft	100 psi	497K76
	30 ft	100 psi	497K75
	100 ft	100 psi	497K74
¾ in	3 ft	100 psi	497K81
	15 ft	100 psi	497K80
	30 ft	100 psi	497K79
	100 ft	100 psi	497K78
1 in	3 ft	100 psi	497K85
	15 ft	100 psi	497K84
	30 ft	100 psi	497K83
	100 ft	100 psi	497K82
Buna-N Oil-Resistant Foam Cords			
Black			
⅛ in	25 ft	160 psi	497K96
9⁄64 in	25 ft	160 psi	497K97
¼ in	10 ft	160 psi	497K98
½ in	10 ft	160 psi	497K99
1 in	10 ft	160 psi	497L01
Silicone High-Temperature Foam Cords			
Red			
⅛ in	10 ft	100 psi	497K91
	100 ft	100 psi	497K86
3⁄16 in	10 ft	100 psi	497K92
	100 ft	100 psi	497K87
¼ in	10 ft	100 psi	497K93
	100 ft	100 psi	497K88
⅜ in	10 ft	100 psi	497K94
	100 ft	100 psi	497K89
½ in	10 ft	100 psi	497K95
	100 ft	100 psi	497K90

Foam Rings

- ¼" Thick
- Closed-cell foam
- Silicone material
- Red

Outside Diameter	Inside Dia.	Item No.
1¼"	¾ in	744A83
1¼"	1 in	744A84
1½"	1 in	744A85
1¾"	1 ½ in	744A88
2"	1 ½ in	744A89
2¼"	1 in	744A86
2¼"	2 in	744A90
2½"	2 in	744A91
2¾"	1 ¼ in	744A87
2¾"	2 ½ in	744A93
3"	2 ½ in	744A94
3¼"	3 in	744A95
3½"	3 in	744A96
3¾"	3 ½ in	744A97
4"	3 ½ in	744A98
4¼"	2 ½ in	744A92
4¼"	4 in	744C01
4½"	4 in	744C02
5½"	3 ½ in	744A99
7"	4 ½ in	744C03

Foam Rolls

Foam rolls are long sheets of synthetic material that can be cut-to-length for wrapping, packaging, and insulating applications.

Thickness	Width	Length	Item No.
EPDM			
Adhesive Backing			
3⁄16"	36"	10-ft	497H94
¼"	36"	10-ft	497H95
⅜"	36"	10-ft	497H96
Plain Backing			
3⁄32"	36"	10-ft	497J11
⅛"	36"	10-ft	497H75
⅛"	40"	25-ft	6YGU3
3⁄16"	36"	10-ft	497H76
¼"	36"	10-ft	497H77
¼"	40"	25-ft	6YGU5
5⁄16"	36"	10-ft	497J12
½"	36"	10-ft	497H79
EVA			
Adhesive Backing			
⅛"	36"	108"	497K38
¼"	36"	108"	497K39
⅜"	36"	108"	497K40
½"	36"	108"	497K41
¾"	36"	108"	497K42
1"	36"	108"	497K43
Plain Backing			
¼"	36"	108"	497K27
⅜"	36"	108"	497K28
½"	36"	108"	497K29
¾"	36"	108"	497K30
1"	36"	108"	497K31
Hydrin			
Plain Backing			
1⁄16"	38"	68"	6YGZ2
⅛"	38"	52"	6YGZ3
⅜"	38"	52"	6YGZ5
Neoprene			
Adhesive Backing			
1⁄16"	36"	10-ft	497F88
⅛"	36"	10-ft	497F89
⅛"	42"	6-ft	6YGV5
3⁄16"	42"	6-ft	6YGW3
¼"	36"	10-ft	497F91
¼"	42"	6-ft	6YGV7
⅜"	42"	6-ft	6YGV8
½"	36"	10-ft	497F93
½"	42"	6-ft	6YGV9
¾"	42"	6-ft	6YGW7
1"	36"	10-ft	497F99
1"	42"	6-ft	6YGW8
Plain Backing			
1⁄16"	36"	10-ft	497F70
⅛"	36"	10-ft	497F71
¼"	36"	10-ft	497F73
¼"	42"	25-ft	6YGV0
⅜"	1"	25-ft	6YGX6
⅜"	2"	25-ft	6YGX7
⅜"	36"	10-ft	497F74
½"	1"	25-ft	6YGX8
½"	2"	25-ft	6YGX9
½"	36"	10-ft	497F75
½"	42"	25-ft	6YGV2
1"	36"	10-ft	497F96
1"	42"	25-ft	6YGV4
Neoprene/EPDM/SBR			
Adhesive Backing			
⅛"	1½"	50-ft	6YLU2
⅛"	2"	50-ft	6YLU3
⅛"	3"	50-ft	6YLU4
3⁄16"	¼"	50-ft	6YLU5
3⁄16"	⅜"	50-ft	6YLU6
3⁄16"	½"	50-ft	6YLU7
3⁄16"	⅝"	50-ft	6YLU8
3⁄16"	¾"	50-ft	6YLU9
3⁄16"	1"	50-ft	6YLV0
3⁄16"	1½"	50-ft	6YLV1
3⁄16"	2"	50-ft	6YLV2
3⁄16"	3"	50-ft	6YLV3
¼"	¼"	50-ft	6YLV4
¼"	⅜"	50-ft	6YLV5
¼"	½"	50-ft	6YLV6
¼"	⅝"	50-ft	6YLV7
¼"	¾"	50-ft	6YLV8
¼"	1"	50-ft	6YLV9
¼"	1½"	50-ft	6YLW0
¼"	2"	50-ft	6YLW1
⅜"	⅜"	50-ft	6YLW3
⅜"	½"	50-ft	6YLW4
⅜"	⅝"	50-ft	6YLW5
⅜"	¾"	50-ft	6YLW6
⅜"	1"	50-ft	6YLW7
⅜"	1½"	50-ft	6YLW8
⅜"	2"	50-ft	6YLW9
⅜"	3"	50-ft	6YLX0
½"	½"	50-ft	6YLX1
½"	⅝"	50-ft	6YLX2
½"	¾"	50-ft	6YLX3
½"	1"	50-ft	6YLX4
½"	1½"	50-ft	6YLX5
½"	2"	50-ft	6YLX6
½"	3"	50-ft	6YLX7
Black			
¾"	42"	6-ft	6YGP8
Plain Backing			
1⁄16"	42"	6-ft	6YGH8
1⁄16"	42"	25-ft	6YGJ9
⅛"	42"	6-ft	6YGP3
⅛"	42"	25-ft	6YGN2
3⁄16"	42"	6-ft	6YGJ0
3⁄16"	42"	25-ft	6YGK1
¼"	42"	6-ft	6YGL3
¼"	42"	25-ft	6YGR6
⅜"	42"	6-ft	6YGL4
⅜"	42"	25-ft	6YGK3
7⁄16"	42"	6-ft	6YGL5
½"	42"	6-ft	6YGJ3
½"	42"	25-ft	6YGR8
¾"	42"	25-ft	6YGN7
1"	42"	6-ft	6YGL7
1"	42"	25-ft	6YGK6
1¼"	42"	6-ft	6YGJ6
1½"	42"	6-ft	6YGJ7
2"	42"	6-ft	6YGJ8
Nitrile			
Plain Backing			
1⁄16"	40"	68"	6YGY4
⅛"	40"	68"	6YGY5
¼"	40"	68"	6YGY6
⅜"	40"	68"	6YGY7
Silicone			
Plain Backing			
1⁄16"	36"	10-ft	497G61
⅛"	36"	10-ft	497G62
¼"	36"	10-ft	497G64
⅜"	36"	10-ft	497G65
Vinyl-Nitrile			
Plain Backing			
¼"	54"	6-ft	6YHA3
⅜"	54"	6-ft	6YHA4
½"	54"	6-ft	6YHA5
¾"	54"	6-ft	6YHA6

Foam Strips

- Adhesive backing

Can be cut-to-size to form gaskets, straps, and pads.

Thickness	Width	Length	Item No.
EPDM			
⅛"	1"	50 ft	6YGU0
¼"	½"	50 ft	6YGT6
¼"	1"	50 ft	6YGU2
½"	2"	10 ft	497H36
1"	1"	60 in	497H27
Neoprene			
⅜"	1"	10 ft	497G22
Neoprene/EPDM/SBR			
1⁄16"	1"	50 ft	6YHD5
⅛"	¼"	50 ft	6YHD9
⅛"	⅜"	50 ft	6YHE0
⅛"	⅜"	50 ft	420C20
⅛"	½"	50 ft	6YHE1
⅛"	¾"	50 ft	6YHE3
⅛"	1"	50 ft	6YHE4
⅛"	2"	50 ft	420C25
¼"	¾"	50 ft	420C40
¼"	1"	50 ft	420C41
¼"	1½"	50 ft	420C42
¼"	2"	50 ft	420C43
¼"	3"	50 ft	420C44
¼"	4"	50 ft	420C45
⅜"	¾"	25 ft	420C48
⅜"	2"	25 ft	420C50
½"	¾"	25 ft	420C53
½"	1"	50 ft	420C64
½"	1½"	50 ft	420C65
½"	2"	25 ft	420C56
½"	3"	25 ft	420C57
½"	4"	25 ft	420C58
½"	6"	25 ft	420C59
¾"	¾"	25 ft	420C60
¾"	1"	25 ft	420C61
¾"	1½"	25 ft	420C62
¾"	2"	25 ft	420C63
1"	¾"	25 ft	420C31
1"	1"	25 ft	420C32
1"	1½"	25 ft	420C33
1"	2"	25 ft	420C34
1"	3"	25 ft	420C35
Vinyl Nitrile			
¼"	2"	50 ft	6YHC9
Viton			
⅛"	¾"	56 in	497J41
¼"	½"	56 in	497J40

Foam Sheets & Strips

- Roll sizes available in foot lengths on Grainger.com

L	W	Thickness	Color	Backing Type	Number of Adhesive Sides	Item No.
Buna-N, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	Plain	0	**743Z68**
12 in	12"	1/16"	Black	Adhesive	1	**743Z78**
12 in	12"	1/8"	Black	Plain	0	**743Y92**
12 in	12"	1/8"	Black	Adhesive	1	**743Z08**
12 in	12"	1/8"	Black	Adhesive	2	**743Z23**
12 in	12"	1/8"	Black	Plain	0	**743Z69**
12 in	12"	1/8"	Black	Adhesive	1	**743Z79**
12 in	12"	3/16"	Black	Plain	0	**743Y93**
12 in	12"	3/16"	Black	Adhesive	1	**743Z09**
12 in	12"	3/16"	Black	Adhesive	2	**743Z24**
12 in	12"	1/4"	Black	Plain	0	**743Y94**
12 in	12"	1/4"	Black	Adhesive	1	**743Z10**
12 in	12"	1/4"	Black	Adhesive	2	**743Z25**
12 in	12"	1/4"	Black	Plain	0	**743Z70**
12 in	12"	1/4"	Black	Adhesive	1	**743Z80**
12 in	12"	3/8"	Black	Plain	0	**743Y95**
12 in	12"	3/8"	Black	Adhesive	1	**743Z11**
12 in	12"	3/8"	Black	Adhesive	2	**743Z26**
12 in	12"	3/8"	Black	Plain	0	**743Z71**
12 in	12"	3/8"	Black	Adhesive	1	**743Z81**
12 in	12"	1/2"	Black	Plain	0	**743Y96**
12 in	12"	1/2"	Black	Adhesive	1	**743Z12**
12 in	12"	1/2"	Black	Adhesive	2	**743Z27**
12 in	12"	1/2"	Black	Plain	0	**743Z72**
12 in	12"	1/2"	Black	Adhesive	1	**743Z82**
24 in	12"	1/16"	Black	Plain	0	**743Z73**
24 in	12"	1/16"	Black	Adhesive	1	**743Z83**
24 in	12"	1/8"	Black	Plain	0	**743Y97**
24 in	12"	1/8"	Black	Adhesive	1	**743Z13**
24 in	12"	1/8"	Black	Adhesive	2	**743Z28**
24 in	12"	1/8"	Black	Plain	0	**743Z74**
24 in	12"	1/8"	Black	Adhesive	1	**743Z84**
24 in	12"	3/16"	Black	Plain	0	**743Y98**
24 in	12"	3/16"	Black	Adhesive	1	**743Z14**
24 in	12"	3/16"	Black	Adhesive	2	**743Z29**
24 in	12"	1/4"	Black	Adhesive	1	**743Z15**
24 in	12"	1/4"	Black	Adhesive	2	**743Z30**
24 in	12"	1/4"	Black	Plain	0	**743Z75**
24 in	12"	1/4"	Black	Adhesive	1	**743Z85**
24 in	12"	3/8"	Black	Plain	0	**743Z01**
24 in	12"	3/8"	Black	Adhesive	1	**743Z16**
24 in	12"	3/8"	Black	Adhesive	2	**743Z31**
24 in	12"	3/8"	Black	Plain	0	**743Z76**
24 in	12"	3/8"	Black	Adhesive	1	**743Z86**
24 in	12"	1/2"	Black	Plain	0	**743Z02**
24 in	12"	1/2"	Black	Adhesive	1	**743Z17**
24 in	12"	1/2"	Black	Adhesive	2	**743Z32**
24 in	12"	1/2"	Black	Plain	0	**743Z77**
24 in	12"	1/2"	Black	Adhesive	1	**743Z87**
36 in	36"	1/16"	Black	Plain	0	**743Z35**
36 in	36"	1/8"	Black	Plain	0	**743Z36**
36 in	36"	3/16"	Black	Plain	0	**743Z37**
36 in	36"	1/4"	Black	Plain	0	**743Z38**
36 in	36"	3/8"	Black	Plain	0	**743Z39**
36 in	36"	1/2"	Black	Plain	0	**743Z40**
Strip						
36 in	2/3"	5/8"	Black	Adhesive	1	**743Y53**
36 in	3/4"	5/8"	Black	Adhesive	1	**743Y63**
36 in	3/4"	3/4"	Black	Adhesive	1	**743Y64**
36 in	1"	5/8"	Black	Adhesive	1	**743Y74**
36 in	1"	3/4"	Black	Adhesive	1	**743Y75**
36 in	1"	1"	Black	Adhesive	1	**743Y76**
36 in	2"	5/8"	Black	Adhesive	1	**743Y86**
36 in	2"	3/4"	Black	Adhesive	1	**743Y87**
36 in	2"	1"	Black	Adhesive	1	**743Y88**
Buna-N/PVC, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	Plain	0	**60CY75**
12 in	12"	1/16"	Black	Adhesive	1	**60CY99**
12 in	12"	1/8"	Black	Plain	0	**60CY76**
12 in	12"	1/8"	Black	Adhesive	1	**60CZ01**
12 in	12"	3/16"	Black	Plain	0	**60CY77**
12 in	12"	3/16"	Black	Adhesive	1	**60CZ02**
12 in	12"	1/4"	Black	Plain	0	**60CY78**
12 in	12"	1/4"	Black	Adhesive	1	**60CZ03**
12 in	12"	3/8"	Black	Plain	0	**60CY79**
12 in	12"	3/8"	Black	Adhesive	1	**60CZ04**
12 in	12"	1/2"	Black	Plain	0	**60CY80**
12 in	12"	1/2"	Black	Adhesive	1	**60CZ05**
12 in	12"	3/4"	Black	Plain	0	**60CY81**
12 in	12"	3/4"	Black	Adhesive	1	**60CZ06**
12 in	12"	1"	Black	Plain	0	**60CY82**
12 in	12"	1"	Black	Adhesive	1	**60CZ07**
24 in	12"	1/16"	Black	Plain	0	**60CY83**
24 in	12"	1/8"	Black	Plain	0	**60CY84**
24 in	12"	3/16"	Black	Plain	0	**60CY85**
24 in	12"	1/4"	Black	Plain	0	**60CY86**
24 in	12"	3/8"	Black	Plain	0	**60CY87**
24 in	12"	1/2"	Black	Plain	0	**60CY88**
24 in	12"	1"	Black	Plain	0	**60CY90**
36 in	36"	1/16"	Black	Plain	0	**60CY91**
36 in	36"	1/16"	Black	Adhesive	1	**60CZ08**
36 in	36"	1/8"	Black	Plain	0	**60CY92**
36 in	36"	3/16"	Black	Plain	0	**60CY93**
36 in	36"	3/16"	Black	Adhesive	1	**60CZ10**
36 in	36"	1/4"	Black	Plain	0	**60CY94**
36 in	36"	1/4"	Black	Adhesive	1	**60CZ11**
36 in	36"	3/8"	Black	Plain	0	**60CY95**
36 in	36"	3/8"	Black	Adhesive	1	**60CZ12**
36 in	36"	1/2"	Black	Plain	0	**60CY96**
36 in	36"	1/2"	Black	Adhesive	1	**60CZ13**
36 in	36"	3/4"	Black	Plain	0	**60CY97**
36 in	36"	3/4"	Black	Adhesive	1	**60CZ14**
36 in	36"	1"	Black	Plain	0	**60CY98**
36 in	36"	1"	Black	Adhesive	1	**60CZ15**
EPDM, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	Plain	0	**497H62**
12 in	12"	1/16"	Black	Adhesive	1	**497H80**
12 in	12"	1/16"	Black	Adhesive	2	**497H98**
12 in	12"	1/16"	Black	Plain	0	**60CZ92**
12 in	12"	1/16"	Black	Adhesive	1	**60DA17**
12 in	12"	1/16"	Black	Plain	0	**60JE52**
12 in	12"	1/16"	Black	Adhesive	1	**60JE79**
12 in	12"	1/8"	Black	Plain	0	**497H63**
12 in	12"	1/8"	Black	Adhesive	1	**497H81**
12 in	12"	1/8"	Black	Adhesive	2	**497H99**
12 in	12"	1/8"	Black	Plain	0	**60CZ93**
12 in	12"	1/8"	Black	Adhesive	1	**60DA18**
12 in	12"	1/8"	Black	Plain	0	**60JE53**
12 in	12"	1/8"	Black	Adhesive	1	**60JE80**
12 in	12"	3/16"	Black	Plain	0	**497H64**
12 in	12"	3/16"	Black	Adhesive	1	**497H82**
12 in	12"	3/16"	Black	Adhesive	2	**497J01**
12 in	12"	3/16"	Black	Plain	0	**60CZ94**
12 in	12"	3/16"	Black	Adhesive	1	**60DA19**
12 in	12"	3/16"	Black	Plain	0	**60JE54**
12 in	12"	3/16"	Black	Adhesive	1	**60JE81**
12 in	12"	1/4"	Black	Plain	0	**497H65**
12 in	12"	1/4"	Black	Adhesive	1	**497H83**
12 in	12"	1/4"	Black	Adhesive	2	**497J02**
12 in	12"	1/4"	Black	Plain	0	**60CZ95**
12 in	12"	1/4"	Black	Adhesive	1	**60DA20**
12 in	12"	1/4"	Black	Plain	0	**60JE55**
12 in	12"	1/4"	Black	Adhesive	1	**60JE82**
12 in	12"	3/8"	Black	Plain	0	**497H66**
12 in	12"	3/8"	Black	Adhesive	1	**497H84**
12 in	12"	3/8"	Black	Adhesive	2	**497J03**
12 in	12"	3/8"	Black	Plain	0	**60CZ96**
12 in	12"	3/8"	Black	Adhesive	1	**60DA21**
12 in	12"	3/8"	Black	Plain	0	**60JE56**
12 in	12"	3/8"	Black	Adhesive	1	**60JE83**
12 in	12"	1/2"	Black	Plain	0	**497H67**
12 in	12"	1/2"	Black	Adhesive	1	**497H85**
12 in	12"	1/2"	Black	Adhesive	2	**497J04**
12 in	12"	1/2"	Black	Plain	0	**60CZ97**
12 in	12"	1/2"	Black	Adhesive	1	**60DA22**
12 in	12"	1/2"	Black	Plain	0	**60JE58**
12 in	12"	1/2"	Black	Adhesive	1	**60JE85**
12 in	12"	3/4"	Black	Plain	0	**60CZ98**
12 in	12"	3/4"	Black	Adhesive	1	**60DA23**
12 in	12"	1"	Black	Plain	0	**60CZ99**
12 in	12"	1"	Black	Adhesive	1	**60DA24**
12 in	36"	1/16"	Black	Plain	0	**60JE30**
12 in	36"	1/16"	Black	Adhesive	1	**60JE36**
12 in	36"	1/16"	Black	Plain	0	**60JE65**
12 in	36"	1/16"	Black	Adhesive	1	**60JE92**
12 in	36"	1/8"	Black	Plain	0	**60JE31**
12 in	36"	1/8"	Black	Adhesive	1	**60JE37**
12 in	36"	1/8"	Black	Plain	0	**60JE66**
12 in	36"	1/8"	Black	Adhesive	1	**60JE93**
12 in	36"	3/16"	Black	Plain	0	**60JE32**
12 in	36"	3/16"	Black	Adhesive	1	**60JE38**
12 in	36"	3/16"	Black	Plain	0	**60JE67**
12 in	36"	3/16"	Black	Adhesive	1	**60JE94**
12 in	36"	1/4"	Black	Plain	0	**60JE33**
12 in	36"	1/4"	Black	Adhesive	1	**60JE39**
12 in	36"	1/4"	Black	Plain	0	**60JE69**
12 in	36"	1/4"	Black	Adhesive	1	**60JE96**
12 in	36"	3/8"	Black	Plain	0	**60JE34**
12 in	36"	3/8"	Black	Adhesive	1	**60JE40**
12 in	36"	3/8"	Black	Plain	0	**60JE70**
12 in	36"	3/8"	Black	Adhesive	1	**60JE97**
12 in	36"	1/2"	Black	Plain	0	**60JE35**
12 in	36"	1/2"	Black	Adhesive	1	**60JE41**
12 in	36"	1/2"	Black	Plain	0	**60JE71**
24 in	12"	1/16"	Black	Plain	0	**497H68**
24 in	12"	1/16"	Black	Adhesive	1	**497H86**
24 in	12"	1/16"	Black	Adhesive	2	**497J05**
24 in	12"	1/16"	Black	Plain	0	**60DA01**
24 in	12"	1/16"	Black	Plain	0	**60JE59**
24 in	12"	1/16"	Black	Adhesive	1	**60JE86**
24 in	12"	1/8"	Black	Plain	0	**497H69**
24 in	12"	1/8"	Black	Adhesive	1	**497H87**
24 in	12"	1/8"	Black	Adhesive	2	**497J06**
24 in	12"	1/8"	Black	Plain	0	**60DA02**
24 in	12"	1/8"	Black	Plain	0	**60JE60**
24 in	12"	1/8"	Black	Adhesive	1	**60JE87**
24 in	12"	3/16"	Black	Plain	0	**497H70**
24 in	12"	3/16"	Black	Adhesive	1	**497H88**
24 in	12"	3/16"	Black	Adhesive	2	**497J07**
24 in	12"	3/16"	Black	Plain	0	**60DA03**
24 in	12"	3/16"	Black	Plain	0	**60JE61**
24 in	12"	3/16"	Black	Adhesive	1	**60JE88**
24 in	12"	1/4"	Black	Plain	0	**497H71**
24 in	12"	1/4"	Black	Adhesive	1	**497H89**
24 in	12"	1/4"	Black	Adhesive	2	**497J08**
24 in	12"	1/4"	Black	Plain	0	**60DA04**
24 in	12"	1/4"	Black	Plain	0	**60JE62**
24 in	12"	1/4"	Black	Adhesive	1	**60JE89**
24 in	12"	3/8"	Black	Plain	0	**497H72**
24 in	12"	3/8"	Black	Adhesive	1	**497H90**
24 in	12"	3/8"	Black	Adhesive	2	**497J09**
24 in	12"	3/8"	Black	Plain	0	**60DA05**
24 in	12"	3/8"	Black	Plain	0	**60JE63**
24 in	12"	3/8"	Black	Adhesive	1	**60JE90**
24 in	12"	1/2"	Black	Plain	0	**497H73**
24 in	12"	1/2"	Black	Adhesive	1	**497H91**
24 in	12"	1/2"	Black	Adhesive	2	**497J10**
24 in	12"	1/2"	Black	Plain	0	**60DA06**
24 in	12"	1/2"	Black	Plain	0	**60JE64**
24 in	12"	1/2"	Black	Adhesive	1	**60JE91**
24 in	12"	3/4"	Black	Plain	0	**60DA07**
24 in	12"	1"	Black	Plain	0	**60DA08**
36 in	36"	1/16"	Black	Plain	0	**497J15**
36 in	36"	1/16"	Black	Plain	0	**60DA09**
36 in	36"	1/16"	Black	Adhesive	1	**60DA25**
36 in	36"	1/16"	Black	Adhesive	1	**60JE24**
36 in	36"	1/16"	Black	Plain	0	**60JE72**
36 in	36"	1/16"	Black	Adhesive	1	**60JE99**
36 in	36"	1/8"	Black	Plain	0	**497J16**
36 in	36"	1/8"	Black	Plain	0	**60DA10**
36 in	36"	1/8"	Black	Adhesive	1	**60DA26**
36 in	36"	1/8"	Black	Adhesive	1	**60JE25**
36 in	36"	3/16"	Black	Plain	0	**497J17**
36 in	36"	3/16"	Black	Adhesive	1	**60JE26**
36 in	36"	3/16"	Black	Plain	0	**60JE74**
36 in	36"	3/16"	Black	Adhesive	1	**60JF02**
36 in	36"	1/4"	Black	Plain	0	**497J18**
36 in	36"	1/4"	Black	Plain	0	**60JE75**
36 in	36"	1/4"	Black	Adhesive	1	**60JF03**
36 in	36"	3/8"	Black	Plain	0	**497J19**
36 in	36"	3/8"	Black	Plain	0	**60DA13**
36 in	36"	3/8"	Black	Adhesive	1	**60DA29**
36 in	36"	3/8"	Black	Adhesive	1	**60JE28**
36 in	36"	3/8"	Black	Plain	0	**60JE76**
36 in	36"	3/8"	Black	Adhesive	1	**60JF04**
36 in	36"	1/2"	Black	Plain	0	**497J20**
36 in	36"	1/2"	Black	Plain	0	**60DA14**
36 in	36"	1/2"	Black	Adhesive	1	**60DA30**
36 in	36"	1/2"	Black	Adhesive	1	**60JE29**
36 in	36"	1/2"	Black	Plain	0	**60JE77**
36 in	36"	1/2"	Black	Adhesive	1	**60JF05**
36 in	36"	3/4"	Black	Plain	0	**60DA15**
36 in	36"	3/4"	Black	Adhesive	1	**60DA31**
36 in	36"	1"	Black	Plain	0	**60DA16**
36 in	36"	1"	Black	Adhesive	1	**60DA32**
Epichlorohydrin, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	—	0	**787EW2**
12 in	12"	1/16"	Black	—	1	**787EY3**
12 in	12"	1/8"	Black	—	0	**787EW5**
12 in	12"	1/8"	Black	—	1	**787EY6**
12 in	12"	3/16"	Black	—	0	**787EW8**
12 in	12"	3/16"	Black	—	1	**787EY9**
12 in	12"	1/4"	Black	—	0	**787EX1**
12 in	12"	1/4"	Black	—	1	**787EZ2**
12 in	12"	5/16"	Black	—	0	**787EX4**
12 in	12"	5/16"	Black	—	1	**787EZ5**
12 in	12"	3/8"	Black	—	0	**787EX7**
12 in	12"	3/8"	Black	—	1	**787EZ8**
12 in	12"	1/2"	Black	—	0	**787EY0**
12 in	12"	1/2"	Black	—	1	**787F02**
24 in	12"	1/16"	Black	—	0	**787EW3**
24 in	12"	1/16"	Black	—	1	**787EY4**
24 in	12"	1/8"	Black	—	0	**787EW6**
24 in	12"	1/8"	Black	—	1	**787EY7**
24 in	12"	3/16"	Black	—	0	**787EW9**
24 in	12"	3/16"	Black	—	1	**787EZ0**
24 in	12"	1/4"	Black	—	0	**787EX2**
24 in	12"	1/4"	Black	—	1	**787EZ3**
24 in	12"	5/16"	Black	—	0	**787EX5**
24 in	12"	5/16"	Black	—	1	**787EZ6**
24 in	12"	3/8"	Black	—	0	**787EX8**
24 in	12"	3/8"	Black	—	1	**787EZ9**
24 in	12"	1/2"	Black	—	0	**787EY1**
24 in	12"	1/2"	Black	—	1	**787F03**
36 in	36"	1/16"	Black	—	0	**787EW4**
36 in	36"	1/16"	Black	—	1	**787EY5**
36 in	36"	1/8"	Black	—	0	**787EW7**
36 in	36"	1/8"	Black	—	1	**787EY8**
36 in	36"	3/16"	Black	—	0	**787EX0**
36 in	36"	3/16"	Black	—	1	**787EZ1**
36 in	36"	1/4"	Black	—	0	**787EX3**
36 in	36"	1/4"	Black	—	1	**787EZ4**
36 in	36"	5/16"	Black	—	1	**787EZ7**
36 in	36"	3/8"	Black	—	0	**787EX9**

CONTINUED

CONTINUED

Foam Sheets & Strips

L	W	Thickness	Color	Backing Type	Number of Adhesive Sides	Item No.
36 in	36"	⅜"	Black	—	1	787F01
36 in	36"	½"	Black	—	0	787EY2
36 in	36"	½"	Black	—	1	787F04
EVA, Standard Grade						
Sheet						
12 in	12"	⅛"	Black	Plain	0	497K02
12 in	12"	⅛"	Black	Adhesive	1	497K14
12 in	12"	¼"	Black	Plain	0	497K03
12 in	12"	¼"	Black	Adhesive	1	497K15
12 in	12"	⅜"	Black	Plain	0	497K04
12 in	12"	⅜"	Black	Adhesive	1	497K16
12 in	12"	½"	Black	Plain	0	497K05
12 in	12"	½"	Black	Adhesive	1	497K17
12 in	12"	¾"	Black	Plain	0	497K06
12 in	12"	¾"	Black	Adhesive	1	497K18
12 in	12"	1"	Black	Adhesive	1	497K19
36 in	36"	⅛"	Black	Plain	0	497K08
36 in	36"	⅛"	Black	Adhesive	1	497K20
36 in	36"	¼"	Black	Plain	0	497K09
36 in	36"	¼"	Black	Adhesive	1	497K21
36 in	36"	⅜"	Black	Adhesive	1	497K22
36 in	36"	½"	Black	Plain	0	497K11
36 in	36"	½"	Black	Adhesive	1	497K23
36 in	36"	¾"	Black	Plain	0	497K12
36 in	36"	¾"	Black	Adhesive	1	497K24
36 in	36"	1"	Black	Plain	0	497K13
36 in	36"	1"	Black	Adhesive	1	497K25
Fluorosilicone, Standard Grade						
Sheet						
12 in	12"	1/16"	Blue	—	0	787EU1
12 in	12"	1/16"	Blue	—	1	787EV3
12 in	12"	3/32"	Blue	—	0	787EU4
12 in	12"	3/32"	Blue	—	1	787EV6
12 in	12"	⅛"	Blue	—	0	787EU7
12 in	12"	⅛"	Blue	—	1	787EV9
24 in	12"	1/32"	Blue	—	0	787ET9
24 in	12"	1/32"	Blue	—	1	787EV1
24 in	12"	1/16"	Blue	—	0	787EU2
24 in	12"	1/16"	Blue	—	1	787EV4
24 in	12"	3/32"	Blue	—	0	787EU5
24 in	12"	3/32"	Blue	—	1	787EV7
24 in	12"	⅛"	Blue	—	0	787EU8
24 in	12"	⅛"	Blue	—	1	787EW0
36 in	36"	1/32"	Blue	—	1	787EV2
36 in	36"	1/16"	Blue	—	0	787EU3
36 in	36"	1/16"	Blue	—	1	787EV5
36 in	36"	⅛"	Blue	—	0	787EU9
Natural Sponge, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	—	0	787F05
12 in	12"	1/16"	Black	—	1	787FD5
12 in	12"	1/16"	Black	—	0	787FF9
12 in	12"	1/16"	Black	—	1	787FJ3
12 in	12"	⅛"	Black	—	0	787F08
12 in	12"	⅛"	Black	—	1	787F32
12 in	12"	⅛"	Black	—	0	787FA4
12 in	12"	⅛"	Black	—	1	787FD8
12 in	12"	3/16"	Black	—	0	787FA7
12 in	12"	3/16"	Black	—	1	787FE1
12 in	12"	3/16"	Black	—	0	787FG5
12 in	12"	3/16"	Black	—	1	787FJ9
12 in	12"	¼"	Black	—	1	787F38
12 in	12"	⅜"	Black	—	0	787F17
12 in	12"	⅜"	Black	—	1	787F41
12 in	12"	⅜"	Black	—	0	787FC3
12 in	12"	½"	Black	—	0	787FC6
12 in	12"	½"	Black	—	1	787FF0
12 in	12"	½"	Black	—	0	787FH4
12 in	12"	½"	Black	—	1	787FK8
12 in	12"	¾"	Black	—	0	787FH7
12 in	12"	¾"	Black	—	1	787FL1
12 in	12"	1"	Black	—	0	787F26
12 in	12"	1"	Black	—	1	787F50
24 in	12"	1/16"	Black	—	0	787F06
24 in	12"	⅛"	Black	—	0	787F09
24 in	12"	⅛"	Black	—	1	787FD9
24 in	12"	3/16"	Black	—	1	787FK0
24 in	12"	¼"	Black	—	0	787FG9
24 in	12"	¼"	Black	—	1	787FK3
24 in	12"	⅜"	Black	—	0	787F18
24 in	12"	¾"	Black	—	1	787FL2
24 in	12"	1"	Black	—	0	787F27
36 in	36"	1/16"	Black	—	0	787F07
36 in	36"	⅛"	Black	—	0	787F10
36 in	36"	⅛"	Black	—	1	787FJ8
36 in	36"	3/16"	Black	—	0	787FG7
36 in	36"	¼"	Black	—	1	787FK4
36 in	36"	⅜"	Black	—	0	787F19
36 in	36"	⅜"	Black	—	1	787FK7
36 in	36"	½"	Black	—	0	787F22
36 in	36"	¾"	Black	—	1	787FL3
36 in	36"	1"	Black	—	0	787FD4
36 in	36"	1"	Black	—	1	787FL6
Neoprene, Flame-Resistant Grade						
Sheet						
12 in	12"	1/16"	Black	Plain	0	743U50
12 in	12"	¼"	Black	Adhesive	1	743U57
12 in	12"	⅜"	Black	Adhesive	1	743U58
12 in	12"	½"	Black	Plain	0	743U54
12 in	12"	¾"	Black	Adhesive	1	60JG81
12 in	12"	1½"	Black	Plain	0	60JG65
12 in	12"	2"	Black	Plain	0	60JG66
24 in	12"	1/16"	Black	Adhesive	1	743U65
24 in	12"	⅛"	Black	Plain	0	743U61
24 in	12"	1"	Black	Adhesive	1	60JG86
24 in	12"	1½"	Black	Plain	0	60JG69
24 in	12"	2"	Black	Plain	0	60JG70
36 in	12"	1/16"	Black	Adhesive	1	60JG32
36 in	12"	⅛"	Black	Plain	0	60JG23
36 in	12"	¼"	Black	Plain	0	60JG24
36 in	12"	½"	Black	Plain	0	60JG26
36 in	12"	¾"	Black	Adhesive	1	60JG89
36 in	12"	1"	Black	Adhesive	1	60JG90
36 in	12"	1½"	Black	Plain	0	60JG73
36 in	12"	2"	Black	Adhesive	1	60JG92
36 in	36"	1/16"	Black	Adhesive	1	60JG37
36 in	36"	⅛"	Black	Plain	0	60JG28
36 in	36"	⅜"	Black	Plain	0	60JG30
36 in	36"	¾"	Black	Adhesive	1	60JG77
36 in	36"	1½"	Black	Plain	0	60JG61
36 in	36"	2"	Black	Plain	0	60JG62
36 in	36"	2"	Black	Adhesive	1	60JG80
Neoprene, Standard Grade						
Sheet						
12 in	12"	1/16"	Black	Plain	0	497F58
12 in	12"	1/16"	Black	Adhesive	1	497F76
12 in	12"	⅛"	Black	Adhesive	1	497F77
12 in	12"	3/16"	Black	Adhesive	1	497F78
12 in	12"	¼"	Black	Adhesive	1	497F79
12 in	12"	⅜"	Black	—	1	787FW9
12 in	12"	½"	Black	Plain	0	497F63
12 in	12"	¾"	Black	—	0	787FV4
12 in	36"	1/16"	Black	Plain	0	60JF59
12 in	36"	⅛"	Black	Adhesive	1	60JF97
12 in	36"	3/16"	Black	Plain	0	60JF61
12 in	36"	¼"	Black	Plain	0	60JF62
12 in	36"	⅜"	Black	Adhesive	1	60JF99
12 in	36"	½"	Black	Plain	0	60JF90
12 in	36"	½"	Black	Adhesive	1	60JG01
24 in	12"	1/16"	Black	Adhesive	1	497F82
24 in	12"	⅛"	Black	Adhesive	2	743T91
24 in	12"	3/16"	Black	Adhesive	1	497F84
24 in	12"	¼"	Black	Adhesive	1	497F85
24 in	12"	⅜"	Black	Plain	0	497F68
24 in	12"	⅜"	Black	Adhesive	1	497F86
24 in	12"	½"	Black	Plain	0	497F69
24 in	12"	¾"	Black	—	0	787FV5
36 in	36"	1/16"	Black	Adhesive	1	60JG02
36 in	36"	⅛"	Black	Adhesive	1	60JF54
36 in	36"	3/16"	Black	—	1	787FW5
36 in	36"	¼"	Black	Plain	0	497G07
36 in	36"	⅜"	Black	Plain	0	497G08
36 in	36"	¾"	Black	—	0	787FV6
36 in	36"	¾"	Black	—	1	787FX7
Strip						
3 in	2"	2"	Black	Adhesive	1	497F57
36 in	¾"	¾"	Black	Adhesive	1	497F42
36 in	1"	¾"	Black	Adhesive	1	497F45
36 in	1"	1"	Black	Adhesive	1	743T63
36 in	1⅛"	1"	Black	Adhesive	1	743T70
36 in	1¼"	¾"	Black	Adhesive	1	743T73
36 in	1½"	¾"	Black	Adhesive	1	743T77
36 in	1¾"	¾"	Black	Adhesive	1	743T81
36 in	1¾"	1"	Black	Adhesive	1	743T82
36 in	2"	¾"	Black	Adhesive	1	497F55
36 in	2"	1"	Black	Adhesive	1	497F56
Polyethylene, Standard Grade						
Sheet						
12 in	12"	¾"	Gray	Plain	0	5GCK1
12 in	12"	1"	Gray	Plain	0	744A72
12 in	12"	1-11/16"	Gray	Adhesive	1	5GCK3
12 in	12"	2"	Gray	Plain	0	744A73
24 in	12"	¼"	Yellow	Plain	0	30WM44
24 in	12"	½"	Blue	Plain	0	30WN03
24 in	12"	1"	Red	Plain	0	30WN64
24 in	12"	1"	Yellow	Adhesive	1	30WN79
24 in	24"	¼"	Yellow	Plain	0	30WM47
24 in	24"	⅜"	Yellow	Plain	0	30WM77
24 in	24"	½"	Black	Adhesive	1	20JL63
24 in	24"	¾"	Red	Adhesive	1	30WN52
24 in	24"	1"	Gray	Plain	0	5GCV4
24 in	24"	1-11/16"	Gray	Adhesive	1	5GCV8
24 in	24"	2"	Gray	Plain	0	744A69
36 in	24"	⅛"	Pink	Plain	0	5GDA6
Polyurethane, Anti-Static Grade						
Sheet						
36 in	36"	⅜"	Pink	Plain	0	5GDC4
36 in	36"	¾"	Pink	Plain	0	5GDD2
36 in	36"	1½"	Pink	Plain	0	5GDD0
Polyurethane, Deformation-Resistant Grade						
Sheet						
12 in	12"	3/16"	Black	Adhesive	1	744A48
12 in	12"	3/16"	Black	Adhesive	2	744A58
54 in	24"	¼"	Black	Adhesive	1	744A54
54 in	24"	½"	Black	Plain	0	744A46
Polyurethane, Flame-Resistant Grade						
Sheet						
12 in	12"	½"	Black	Plain	0	12M706
12 in	12"	½"	Black	Adhesive	1	12M709
24 in	24"	1/16"	Black	Plain	0	13C462
24 in	24"	1/16"	Black	Adhesive	1	13C465
24 in	24"	⅛"	Black	Adhesive	1	13C471
24 in	24"	3/16"	Black	Adhesive	1	12M716
24 in	24"	¼"	Black	Plain	0	12M694
24 in	24"	⅜"	Black	Plain	0	12M701
54 in	36"	1/16"	Black	Adhesive	1	13C466
54 in	36"	⅛"	Black	Adhesive	1	13C472
54 in	36"	¼"	Black	Plain	0	12M695
54 in	36"	¼"	Black	Adhesive	1	13C478
Polyurethane, Standard Grade						
Sheet						
12 in	12"	½"	Beige	Plain	0	5GCG1
12 in	12"	¾"	Beige	Plain	0	5GCL2
12 in	12"	1½"	Gray	Plain	0	5GCP8
12 in	12"	2"	Beige	Plain	0	5GCN1
12 in	12"	3"	Gray	Plain	0	5GCP4
12 in	12"	4"	Gray	Plain	0	5GCR1
13 in	13"	⅛"	Black	Adhesive	1	744A31
13 in	13"	1"	Black	Adhesive	1	744A34
13 in	13"	2"	Black	Plain	0	744A11
13 in	13"	4"	Black	Adhesive	1	744A36
19 in	19"	⅛"	Black	Adhesive	1	744A25
19 in	19"	2"	Black	Plain	0	744A05
19 in	19"	4"	Black	Plain	0	744A06
24 in	24"	½"	Beige	Plain	0	5GCU1
24 in	24"	¾"	Beige	Plain	0	5GCY3
36 in	36"	¾"	Beige	Plain	0	5GDD9
36 in	36"	1"	Beige	Plain	0	5GDE0
39 in	39"	¼"	Black	Adhesive	1	744A20
39 in	39"	1"	Black	Plain	0	743Z97
Silicone, Deformation-Resistant Grade						
Sheet						
12 in	12"	1/16"	Brown	Adhesive	1	743Y11
12 in	12"	⅛"	Brown	Adhesive	1	743Y12
12 in	12"	3/16"	Brown	Adhesive	1	743Y13
12 in	12"	¼"	Brown	Adhesive	1	743Y14
12 in	12"	⅜"	Brown	Adhesive	1	743Y15
12 in	12"	½"	Brown	Adhesive	1	743Y16
36 in	36"	½"	Brown	Adhesive	1	743Y22
Strip						
36 in	½"	¼"	Brown	Adhesive	1	743X83
36 in	1"	¼"	Brown	Adhesive	1	743X89
36 in	1"	⅜"	Brown	Adhesive	1	743X90
36 in	2"	1/16"	Brown	Adhesive	1	743X92
36 in	2"	½"	Brown	Adhesive	1	743X97
36 in	4"	3/16"	Brown	Adhesive	1	743Y01
36 in	6"	⅛"	Brown	Adhesive	1	743Y06
Silicone, Fabric-Reinforced Grade						
Sheet						
12 in	12"	1/16"	Blue	—	0	787FY1
12 in	12"	1/16"	Blue	—	1	787FZ0
12 in	12"	⅛"	Blue	—	0	787FY4
12 in	12"	⅛"	Blue	—	1	787FZ3
24 in	12"	1/16"	Blue	—	0	787FY2
36 in	36"	⅛"	Blue	—	0	787FY6
Silicone, Flame-Resistant, Food Grade						
Sheet						
12 in	12"	3/16"	White	Plain	0	20Y093
12 in	12"	3/16"	White	Adhesive	—	20Y094
12 in	12"	⅜"	White	Plain	0	20Y106
12 in	12"	⅜"	White	Adhesive	—	20Y107
12 in	12"	¾"	White	Plain	0	20Y099
12 in	12"	¾"	White	Adhesive	—	20Y101
24 in	24"	1/16"	White	Plain	0	20Y067
24 in	24"	3/16"	White	Plain	0	20Y095
24 in	24"	¼"	White	Adhesive	—	20Y080
24 in	24"	¾"	White	Adhesive	—	20Y103
36 in	36"	1/16"	White	Adhesive	1	20Y070
36 in	36"	⅛"	White	Plain	0	20Y087
36 in	36"	¼"	White	Adhesive	—	20Y082
36 in	36"	¾"	White	Adhesive	—	20Y105
Silicone, Flame-Resistant Grade						
Sheet						
12 in	12"	⅛"	Blue	Adhesive	2	743W42
12 in	12"	¼"	Blue	Plain	0	743V89
12 in	12"	¼"	Blue	Adhesive	1	743W32
12 in	12"	¼"	Blue	Adhesive	2	743W44
12 in	12"	⅜"	Blue	Plain	0	743V90
12 in	12"	½"	Blue	Plain	0	743V91
12 in	12"	½"	Blue	Adhesive	1	743W34
12 in	12"	½"	Blue	Adhesive	2	743W46
24 in	12"	⅛"	Blue	Adhesive	1	743W36
24 in	12"	¼"	Blue	Adhesive	1	743W38
Silicone, Food Grade						
Sheet						
12 in	12"	⅛"	Gray	Plain	0	743W88
12 in	12"	⅛"	Gray	Adhesive	1	743W98
12 in	12"	¼"	Gray	Plain	0	743W89
12 in	12"	¼"	Gray	Adhesive	1	743W99
24 in	12"	¼"	Gray	Adhesive	1	743X05
24 in	12"	⅜"	Gray	Plain	0	743W95
Viton, Standard Grade						
Sheet						
12 in	12"	¼"	Black	Plain	0	497J27
12 in	12"	⅜"	Black	Plain	0	497J30
12 in	12"	½"	Black	Plain	0	497J33
24 in	12"	¼"	Black	Plain	0	497J28
Strip						
6 in	6"	⅛"	Black	Plain	0	497J23
6 in	6"	¼"	Black	Plain	0	497J26
6 in	6"	⅜"	Black	Plain	0	497J29
6 in	6"	½"	Black	Plain	0	497J32

Scan. Order. Done.
Details on page A1.

General Purpose Grade Rubber Comparison Chart

Additional grades of rubber material are available on Grainger.com.

TENSILE STRENGTH

Determined by calculating the maximum pulling force a rubber material can withstand without breaking. The higher the numerical value, the stronger the material.

ELONGATION

Measured by applying tensile force (stretching the material until it breaks), then determining the change in length from the original length. This value is expressed as a percentage of the original length.

COMPRESSION SET

Measures the ability of the rubber to return to its original thickness after prolonged compressive stresses at a given temperature and deflection. As a rubber material is compressed over time it loses its ability to return to its original thickness.

GRADE

Refers to the unique mechanical and physical properties of a specific rubber material.
High Strength rubber is stronger and more durable than standard rubber for demanding environments and applications.
Fabric Reinforced can withstand high stress and frequent flexing.
Food Grade is FDA-compliant for food, beverage, and pharmaceutical applications.

BACKING TYPE

Plain indicates the rubber does not have an adhesive.
Acrylic Adhesive provides reasonable temperature resistance with adhesion to a wide range of substrates. This adhesive ages well, has a lower tack so it sticks less when dry, and provides UV resistance.

DUROMETER

Measures the elasticity of a material: a lower durometer rating indicates a flexible and soft rubber, while a higher durometer rating indicates a harder rubber. Softer rubbers are measured on the A scale, whereas harder rubbers are measured on the D scale.

Material	Chemical Resist.	Oil Resist.	Abrasion Resist.	Weather Resist.	Tensile Strength	Elongation	Compression Set	Min. Temp. to Max. Temp.
Aflas	Excellent	Excellent	Good	Excellent	1,650 psi	—	—	0 to 450
Buna-N	Fair	Excellent	Good	Fair	1,000 psi	350 %	33 %	-30 to 250
Butyl	Excellent	Poor	Fair	Good	1,200 psi	300 %	50 %	-40 to 250
EPDM	Good	Poor	Good	Excellent	1,000 psi	350 %	33 %	-30 to 250
Fluorosilicone	Excellent	Good	Poor	Excellent	800 psi	250 %	8.97 %	-100 to 400
Hypalon	Good	Good	Fair	Good	1,500 psi	350 %	40 %	-40 to 250
Natural Rubber	Fair	Poor	Excellent	Fair	3,000 psi	750 %	25 %	-45 to 200
Neoprene	Fair	Good	Good	Excellent	1,000 psi	350 %	33 %	-30 to 250
Polyurethane	Fair	Fair	Good	Fair	3,000 psi	690 %	10 %	-45 to 250
Recycled Rubber	Poor	Poor	Good	Poor	250 psi	100 %	99 %	0 to 210
SBR	Fair	Poor	Excellent	Fair	400 psi	200 %	38 %	-45 to 200
Silicone	Good	Fair	Poor	Excellent	850 psi	300 %	35 %	-80 to 400
Vinyl	Good	Good	Fair	Good	1,000 psi	350 %	Not Rated	-40 to 180
Viton	Excellent	Excellent	Good	Excellent	1,000 psi	150 %	25 %	-10 to 400

Rubber Strips

Can be formed into custom gaskets and ideal for use in sealing and cushioning. Strips have a width of 6" or less.

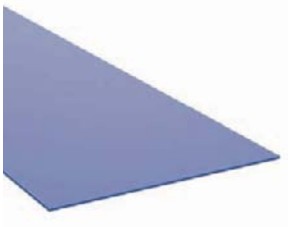
Overall Length	Overall Width	▶CHOOSE: Backing Type	▶CHOOSE: Durometer	▶CHOOSE: Overall Thickness	▶CHOOSE: Texture	Color	Item No.
General Purpose Buna-N							
3 ft	2 in	Acrylic, Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5005**
10 ft	2 in	Plain Backing, Acrylic	40A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**D5015**
High-Strength Buna-N							
10 ft	6 in	Plain Backing, Acrylic	50A, 70A, 80A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**D5127**
General Purpose Butyl							
3 ft	2 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5300**
3 ft	4 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5301**
3 ft	6 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5302**
General Purpose EPDM Strips							
10 ft	1 in	Plain Backing, Acrylic	60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5209**
10 ft	2 in	Plain Backing, Acrylic	60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5211**
10 ft	6 in	Plain Backing, Acrylic	60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5214**
General Purpose Fluorosilicone							
3 ft	½ in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5290**
3 ft	2 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5292**
3 ft	6 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5294**
General Purpose Hypalon							
3 ft	2 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5139**
3 ft	4 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5140**
3 ft	6 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5141**
General Purpose Natural							
3 ft	2 in	Plain Backing	40A, 60A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5279**
3 ft	6 in	Plain Backing	40A, 60A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5281**
10 ft	1 in	Plain Backing	40A	0.0625", 0.125", 0.25"	Smooth	Tan	**K5285**

Overall Length	Overall Width	▶CHOOSE: Backing Type	▶CHOOSE: Durometer	▶CHOOSE: Overall Thickness	▶CHOOSE: Texture	Color	Item No.
General Purpose Neoprene							
36 in	2 in	Acrylic, Plain Backing	30A, 40A, 50A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5158**
36 in	4 in	Acrylic, Plain Backing	30A, 40A, 50A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5159**
120 in	1 in	Plain Backing, Acrylic	50A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**D5166**
120 in	2 in	Plain Backing, Acrylic	50A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**D5202**
High-Strength SBR							
10 ft	6 in	Plain Backing	60A	0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5091**
25 ft	6 in	Plain Backing	60A	0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5092**
50 ft	6 in	Plain Backing	60A	0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5093**
Food-Grade (FDA) Silicone							
10 ft	1 in	Plain Backing, High-Temp	40A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Red	**D7255**
10 ft	2 in	Plain Backing, High-Temp	40A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Red	**D7257**
General Purpose Silicone							
3 ft	2 in	Plain Backing, High-Temp	30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**K6874**
Food-Grade (FDA) Viton							
36 in	½ in	Plain Backing	75A	0.01563", 0.03125", 0.0625", 0.125", 0.25"	Smooth	White	**K5014**
36 in	1 in	Plain Backing	75A	0.01563", 0.03125", 0.0625", 0.125", 0.25"	Smooth	White	**K5015**
36 in	2 in	Plain Backing	75A	0.01563", 0.03125", 0.0625", 0.125", 0.25"	Smooth	White	**K5016**
General Purpose Viton							
6 in	6 in	High-Temp, Plain Backing	75A	0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**K5030**
36 in	¼ in	High-Temp	75A	0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**K5031**
36 in	½ in	High-Temp	75A	0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**K5032**
36 in	1 in	High-Temp	75A	0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**K5033**
36 in	2 in	Plain Backing, High-Temp	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K5034**

For more information on Rubber, see page 2202.

Rubber Sheets and Rolls

Ideal for use in sealing, cushioning, and can be formed into custom gaskets.



L	W	▶CHOOSE: Backing Type	▶CHOOSE: Durometer	▶CHOOSE: Overall Thickness	▶CHOOSE: Texture	Color	Item No.
General Purpose Buna-N							
12 in	12 in	Acrylic, Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4973**
24 in	12 in	Acrylic, Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4976**
36 in	12 in	Acrylic, Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4977**
36 in	24 in	Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4979**
36 in	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4981**
48 in	36 in	Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D4982**
High-Strength Buna-N							
12 in	12 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5021**
36 in	12 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5026**
60 in	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5034**
General Purpose Butyl							
12 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5295**
36 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5297**
120 in	36 in	Plain Backing	60A	0.0625", 0.125", 0.25"	Smooth	Black	**K5299**
General Purpose EPDM							
1 ft	12 in	Plain Backing, Acrylic	60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K5180**
3 ft	12 in	Plain Backing, Acrylic	60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K5184**
10 ft	36 in	Plain Backing, Acrylic	60A	0.09375", 0.03125", 0.1875", 0.375", 0.5", 0.0625", 0.125", 0.25"	Smooth	Black	**K5191**
15 ft	36 in	Plain Backing	60A	0.25", 0.125", 0.09375", 0.03125", 0.0625", 0.1875", 0.375", 0.5"	Smooth	Black	**K5192**
20 ft	36 in	Plain Backing, Acrylic	60A	0.5", 0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375"	Smooth	Black	**K5193**
25 ft	36 in	Plain Backing	60A	0.125", 0.09375", 0.0625", 0.03125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K7328**
40 ft	36 in	Plain Backing, Acrylic	60A	0.25", 0.1875", 0.03125", 0.0625", 0.09375", 0.125", 0.375", 0.5"	Smooth	Black	**K5195**
50 ft	36 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.03125"	Smooth	Black	**K5198**
High-Strength EPDM							
10 ft	36 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**K5219**
General Purpose Fluorosilicone							
1 ft	12 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5287**
2 ft	12 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5288**
3 ft	36 in	Plain Backing	60A	0.03125", 0.0625", 0.125", 0.1875", 0.25"	Smooth	Blue	**K5289**
General Purpose Hypalon							
1 ft	12 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5132**
5 ft	36 in	Plain Backing	60A	0.0625", 0.25", 0.125"	Smooth	Black	**K5135**
10 ft	36 in	Plain Backing	60A	0.0625", 0.125", 0.09375", 0.25"	Smooth	Black	**K5136**
15 ft	36 in	Plain Backing	60A	0.25", 0.1875", 0.125"	Smooth	Black	**K5137**
24 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5133**
36 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5134**

L	W	▶CHOOSE: Backing Type	▶CHOOSE: Durometer	▶CHOOSE: Overall Thickness	▶CHOOSE: Texture	Color	Item No.
General Purpose Natural							
2 ft	12 in	Plain Backing	40A, 60A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5268**
3 ft	12 in	Plain Backing	40A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Tan	**K5269**
3 ft	36 in	Plain Backing	60A	0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5270**
10 ft	36 in	Plain Backing, Acrylic	40A, 60A	0.0625", 0.125", 0.25", 0.5", 0.1875", 0.375", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5271**
12 in	12 in	Plain Backing	40A, 60A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5267**
25 ft	36 in	Plain Backing	40A	0.125", 0.0625"	Smooth	Tan	**K7330**
30 ft	36 in	Plain Backing, Acrylic	40A, 60A	0.25", 0.5", 0.375", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5273**
40 ft	36 in	Plain Backing, Acrylic	40A, 60A	0.25", 0.1875", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5274**
50 ft	36 in	Plain Backing, Acrylic	40A, 60A	0.125", 0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5275**
60 ft	36 in	Plain Backing, Acrylic	60A	0.008", 0.01", 0.012", 0.014", 0.02", 0.025", 0.03"	Smooth	Tan	**K5276**
Fabric-Reinforced Neoprene							
2 ft	12 in	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**D5054**
2 ft	12 in	Plain Backing	60A, 70A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**D5055**
3 ft	12 in	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**D5056**
5 ft	4 ⅔ ft	Plain Backing	70A	0.0625", 0.125", 0.1875"	Smooth	Black	**D5062**
5 ft	4 ft	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**D5061**
5 ft	36 in	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**D5059**
Food-Grade (FDA) Neoprene							
2 ft	12 in	Plain Backing	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	White	**D5083**
3 ft	12 in	Plain Backing	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	White	**D5084**
3 ft	24 in	Plain Backing	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	White	**D5085**
3 ft	36 in	Plain Backing, Acrylic	60A	0.09375", 0.1875", 0.375", 0.5", 0.0625", 0.125", 0.25"	Smooth	White	**D5086**
12 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75"	Smooth	White	**D5082**
High-Strength Neoprene							
2 ft	12 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.03125"	Smooth	Black	**D5212**
2 ft	12 in	Plain Backing, Acrylic	30A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 1"	Smooth	Black	**D5214**
3 ft	12 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 1", 0.75", 0.03125"	Smooth	Black	**D5215**
3 ft	12 in	Plain Backing, Acrylic	30A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75"	Smooth	Black	**D5216**
3 ft	18 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	1", 0.0625", 0.5", 0.03125", 0.25", 0.125", 0.09375", 0.1875", 0.375", 0.75"	Smooth	Black	**D5217**
3 ft	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.09375", 0.1875", 0.375", 0.5", 0.75", 1", 0.03125", 0.0625", 0.125", 0.25"	Smooth	Black	**D5219**
3 ft	36 in	Plain Backing	30A	1", 0.75"	Smooth	Black	**D5222**
5 ft	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5224**
12 in	12 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 80A, 90A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.03125"	Smooth	Black	**D5206**
12 in	12 in	Plain Backing, Acrylic	30A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5208**
18 in	18 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	1", 0.0625", 0.5", 0.03125", 0.25", 0.125", 0.09375", 0.1875", 0.375", 0.75"	Smooth	Black	**D5211**
Ultra-Strength Neoprene							
2 ft	12 in	Plain Backing, Acrylic	50A, 60A, 70A	0.0625", 0.125", 0.25", 0.375", 0.5", 1.25", 1.5", 2"	Smooth	Black	**D7154**

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For more information on Rubber, see page 2202.

CONTINUED

Rubber Sheets and Rolls

L	W	▶CHOOSE: Backing Type	▶CHOOSE: Durometer	▶CHOOSE: Overall Thickness	▶CHOOSE: Texture	Color	Item No.
General Purpose Neoprene							
1 ft	12 in	Acrylic, Plain Backing	30A, 40A, 50A, 60A, 70A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.03125"	Smooth, Textured	Black	**D5096**
2 ft	12 in	Acrylic, Plain Backing	30A, 40A, 50A, 60A, 70A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1", 0.03125"	Smooth, Textured	Black	**D5099**
3 ft	12 in	Acrylic, Plain Backing	30A, 40A, 50A, 60A, 70A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 1", 0.75", 0.03125"	Smooth, Textured	Black	**D5101**
3 ft	18 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	1", 0.0625", 0.5", 0.03125", 0.25", 0.125", 0.1875", 0.09375", 0.75", 0.375"	Smooth	Black	**D5102**
3 ft	24 in	Plain Backing	40A, 50A, 60A, 70A, 30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth, Textured	Black	**D5103**
3 ft	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth, Textured	Black	**D5137**
4 ft	36 in	Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**D5138**
5 ft	36 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A, 30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.375", 0.5", 0.75", 1", 0.25"	Smooth, Textured	Black	**D5139**
18 in	12 in	Plain Backing	40A, 50A, 60A, 70A	1", 0.0625", 0.5", 0.03125", 0.25", 0.125", 0.1875", 0.09375", 0.75", 0.375"	Smooth	Black	**D5097**
18 in	18 in	Plain Backing, Acrylic	40A, 50A, 60A, 70A	1", 0.0625", 0.5", 0.03125", 0.25", 0.125", 0.1875", 0.09375", 0.75", 0.375"	Smooth	Black	**D5098**
General Purpose Polyurethane							
12 in	12 in	Plain Backing, Acrylic	40A, 60A, 70A, 75D, 80A, 90A, 95A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1.25", 1.5", 1"	Smooth	Black	**K5096**
24 in	12 in	Plain Backing, Acrylic	40A, 60A, 70A, 75D, 80A, 90A, 95A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1.25", 1.5", 1"	Smooth	Black	**K5099**
24 in	24 in	Plain Backing, Acrylic	40A, 60A, 70A, 75D, 80A, 90A, 95A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1.25", 1.5", 1"	Smooth	Black	**K5102**
36 in	12 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Amber	**K5103**
36 in	24 in	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Amber	**K5104**
36 in	36 in	Plain Backing, Acrylic	60A	0.0625", 0.125", 0.1875", 0.25", 0.5"	Smooth	Amber	**K5105**
36 in	36 in	Plain Backing, Acrylic	80A	1.5-mm, 1-mm, 2.5-mm, 2-mm, 3-mm	Smooth	Amber	**K5106**
48 in	24 in	Plain Backing, Acrylic	40A, 60A, 70A, 75D, 80A, 90A, 95A	0.0625", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1.25", 1.5", 1"	Smooth	Black	**K5110**
60 in	36 in	Plain Backing	60A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Amber	**K5111**
General Purpose Recycled							
1 ft	1 ft	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5260**
2.5 ft	24 in	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5261**
3 ft	3 ft	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5262**
4 ft	1 ft	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5263**
4 ft	4 ft	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5265**
4 ft	24 in	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5264**
10 ft	4 ft	Plain Backing	60A	0.0625", 0.3125", 0.125", 0.375", 0.25"	Smooth	Black-Speckled	**K5266**
General Purpose SBR							
12 in	12 in	Plain Backing	75A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5048**
24 in	12 in	Plain Backing	75A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5050**
36 in	12 in	Plain Backing	75A	0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5", 0.75", 1"	Smooth	Black	**K5052**
Food-Grade (FDA) Silicone							
12 in	12 in	Plain Backing, High-Temp	10A, 20A, 40A, 50A, 60A, 70A	0.03125", 0.0625", 0.125", 0.1875", 0.25", 0.09375", 0.375", 0.5"	Smooth	Red	**D5309**
36 in	12 in	Plain Backing, High-Temp	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**D7227**
36 in	36 in	Plain Backing, High-Temp	10A, 20A, 40A, 50A, 60A, 70A	0.03125", 0.0625", 0.125", 0.1875", 0.25", 0.09375", 0.375", 0.5", 0.5-mm, 1-mm, 1.5-mm, 2-mm, 2.5-mm, 3-mm, 5-mm	Smooth	Red	**D7232**
60 in	36 in	Plain Backing, High-Temp	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**D7234**
120 in	12 in	Plain Backing	40A, 50A, 60A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**D5309**
120 in	36 in	High-Temp, Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**D5313**
720 in	36 in	Plain Backing	40A, 50A, 60A, 70A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Red	**D7246**
General Purpose Silicone							
12 in	12 in	Plain Backing, High-Temp	30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**J4592**
36 in	12 in	Plain Backing, High-Temp	30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**J4595**
36 in	24 in	Plain Backing	30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**J4596**
120 in	36 in	Plain Backing, High-Temp	30A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Red	**J4594**
General Purpose Vinyl							
3 ft	12 in	Plain Backing, Acrylic	70A	0.0625", 0.125", 0.1875", 0.25"	Smooth	Black	**K5038**
10 ft	36 in	Plain Backing	70A	0.0625", 0.125", 0.25", 0.1875"	Smooth	Black	**K5040**
25 ft	36 in	Plain Backing	70A	0.125", 0.0625"	Smooth	Black	**K5041**
30 ft	36 in	Plain Backing	70A	0.25", 0.1875"	Smooth	Black	**K5041**
50 ft	36 in	Plain Backing	70A	0.0625", 0.25"	Smooth	Black	**K5042**
General Purpose Viton							
12 in	12 in	Plain Backing, High-Temp	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K5019**
24 in	12 in	Plain Backing	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.5"	Smooth	Black	**K5020**
36 in	12 in	Plain Backing	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25", 0.375", 0.5"	Smooth	Black	**K5021**
36 in	24 in	Plain Backing	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K7353**
36 in	36 in	High-Temp, Plain Backing	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5022**
72 in	36 in	Plain Backing	75A	0.03125", 0.0625", 0.09375", 0.125", 0.1875", 0.25"	Smooth	Black	**K5025**

Polyurethane Rubber Tubes

These abrasion-resistant tubes are polyurethane construction and offer the shock-absorbing characteristics of rubber with the durability and tear resistance of plastic.

Inside Dia.	Outside Diameter	Wall Thickness	▶CHOOSE: Duro.	▶CHOOSE: Overall Length	▶CHOOSE: Color	▶CHOOSE: Clarity	Item No.
⅜"	1"	5⁄16"	40A, 60A, 75D, 80A, 95A	6 in, 12 in	Black	Opaque	**K4763**
½"	2"	¾"	60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4756**
¾"	2½"	⅞"	40A	6 in, 12 in, 36 in	Black	Opaque	**K4762**
1"	1¾"	⅜"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4752**
	2"	½"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4754**
	2½"	¾"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4753**
	3"	1"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4755**
1¼"	2"	⅜"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4750**
	2½"	½"	80A, 95A	6 in, 12 in, 36 in	Amber	Semi-Clear	**K4749**
1½"	2"	¼"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4747**
	2½"	½"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black	Opaque	**K4745**
	2¾"	⅝"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4746**
	3"	¾"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4748**
1¾"	2¾"	½"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4751**
2"	3"	½"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4760**
	3½"	¾"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4759**
2¼"	3"	⅜"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4758**
3"	4"	½"	40A, 60A, 75D, 80A, 95A	6 in, 12 in, 36 in	Black, Amber	Opaque, Semi-Clear	**K4761**

For more information on Rubber, see page 2202.

▶CHOOSE: Duro.	▶CHOOSE: Color	▶CHOOSE: Clarity	▶CHOOSE: Overall Length	Dia.	Item No.
40A, 60A, 75D, 80A, 95A	Black, Amber	Opaque, Semi-Clear	4 ft, 6 in, 12 in, 24 in, 36 in	¼"	**K4770**
				⅜"	**K4776**
				½"	**K4769**
				⅝"	**K4778**
				¾"	**K4775**
				⅞"	**K4779**
				1"	**K4768**
				1⅛"	**K4766**
				1¼"	**K4765**
				1½"	**K4764**
				1¾"	**K4767**
				2"	**K4773**
				2¼"	**K4772**
				2½"	**K4771**
				3"	**K4774**
				4"	**K4777**

Rubber Rods

Thicker and shorter than rubber cords and constructed of abrasion-resistant polyurethane. Rods are typically used for sealing, cushioning, or are fabricated into rubber parts.

Rubber Cord Stock

Commonly used for custom seals and the rubber is often vulcanized for improved elasticity, tensile strength, and hardness. Material is sometimes referred to as O-ring cord stock.

▶CHOOSE: Cross Section	Duro.	Color	Shape	▶CHOOSE: Overall Length	Item No.
Brown Viton					
0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in	75A	Brown	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft, 24 in	**K4780**
1.6 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 4.5 mm, 5 mm, 5.7 mm, 6 mm, 7.5 mm, 8 mm, 9 mm, 10 mm, 12 mm, 14 mm	75A	Brown	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4781**
Food Grade (FDA) Buna-N					
0.07 in, 0.093 in, 0.125 in, 0.187 in, 0.25 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in	70A	White	Round	10 ft, 25 ft, 50 ft, 100 ft	**K4782**
Food Grade (FDA) Silicone					
0.07 in, 0.093 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.625 in, 0.75 in, 0.812 in, 0.875 in	70A	Red	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4783**
1 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 5.8 mm, 6 mm, 8 mm	70A	Red	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4784**
General Purpose Aflas					
0.103 in, 0.139 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in	80A	Black	Round	5 ft, 10 ft, 12 in, 25 ft, 50 ft, 100 ft	**K4785**
General Purpose Buna-N					
0.07 in, 0.093 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.562 in, 0.625 in, 0.75 in, 0.812 in, 0.875 in, 1 in, 1.125 in, 1.25 in, 1.5 in	70A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4786**
1 mm, 1.6 mm, 2 mm, 2.4 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 5.7 mm, 6 mm, 6.5 mm, 7 mm, 7.5 mm, 8 mm, 8.5 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm	70A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4787**
General Purpose EPDM					
0.07 in, 0.093 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.625 in, 0.75 in, 1 in	70A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4788**
1.5 mm, 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 5.8 mm, 6 mm, 8 mm	70A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4789**
General Purpose Neoprene					
0.07 in, 0.093 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.562 in, 0.625 in, 0.75 in, 1 in	70A	Black	Round	10 ft, 25 ft, 50 ft, 100 ft, 5 ft	**K4790**
General Purpose Round Viton					
0.07 in, 0.093 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.5 in	75A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft, 24 in, 12 in	**K4791**
1.6 mm, 2 mm, 2.4 mm, 3 mm, 4 mm, 4.5 mm, 5 mm, 5.7 mm, 6 mm, 7.5 mm, 8 mm, 8.5 mm, 9 mm, 10 mm, 12 mm, 14 mm	75A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4792**
Hard Buna-N					
0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in	90A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4793**
2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm, 4.5 mm, 5 mm, 5.5 mm, 6 mm	90A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4794**
Hard Viton					
0.07 in, 0.103 in, 0.125 in, 0.139 in, 0.187 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in	90A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4795**
Metal-Detectable Food-Grade (FDA) Silicone					
0.039 in, 0.07 in, 0.103 in, 0.139 in, 0.21 in, 0.275 in, 0.312 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in	70A	Blue	Round	10 ft, 25 ft, 50 ft, 100 ft, 20 ft, 36 in	**K4796**
2 mm, 3 mm, 4 mm, 5 mm, 6 mm	70A	Blue	Round	10 ft, 20 ft, 36 in, 50 ft, 100 ft	**K4797**
Soft Buna-N					
0.139 in, 0.21 in, 0.25 in, 0.275 in, 0.312 in, 0.375 in, 0.5 in, 0.625 in	50A	Black	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4798**
Soft Food-Grade (FDA) Silicone					
0.07 in, 0.103 in, 0.139 in, 0.21 in, 0.275 in, 0.312 in, 0.5 in	50A	Red	Round	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4799**
Square Profile Buna-N					
0.098 in, 0.133 in, 0.156 in, 0.202 in, 0.264 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.562 in, 0.625 in, 0.75 in, 0.875 in, 1 in	70A	Black	Square	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4800**
10 mm	70A	Black	Square	10 ft, 25 ft, 50 ft, 100 ft	**K4801**
Square Profile Silicone					
0.098 in, 0.133 in, 0.156 in, 0.202 in, 0.264 in, 0.312 in, 0.375 in, 0.437 in, 0.5 in, 0.625 in, 0.75 in	70A	Red	Square	10 ft, 25 ft, 50 ft, 100 ft	**K4800**
Square-Profile Viton					
0.125 in, 0.133 in, 0.187 in, 0.25 in, 0.312 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in	75A	Black	Square	5 ft, 10 ft, 25 ft, 50 ft, 100 ft, 24 in, 12 in	**K4802**
X-Profile Buna-N					
0.07 in, 0.139 in, 0.21 in, 0.275 in, 0.5 in	70A	Black	X	5 ft, 10 ft, 25 ft, 50 ft, 100 ft	**K4803**
X-Profile Viton					
0.07 in, 0.103 in, 0.139 in, 0.21 in, 0.275 in, 0.375 in, 0.5 in	75A	Black	X	5 ft, 10 ft, 24 in, 25 ft, 50 ft, 100 ft, 12 in	**K4804**

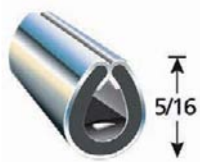
▶CHOOSE: Overall Dia.	Duro.	Color	Clarity	Temp. Range	Tensile Strength	Item No.
Buna-N Oil Resistant						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1", 1⅛", 1⅜", 2"	70A	Black	Opaque	-30-°F-to-250-°F	1,000 psi	**K4997**
Neoprene Food-Grade (FDA) Water-Resistant						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1", 1⅛", 1⅜", 2"	70A	White	Opaque	-30-°F-to-250-°F	1,000 psi	**K4998**
Neoprene Water-Resistant						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1", 1⅛", 1⅜", 2"	70A	Black	Opaque	-30-°F-to-250-°F	1,000 psi	**K4999**
Polyurethane Abrasion-Resistant						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1", 1⅛", 1⅜", 2"	80A	Black	Opaque	-20-°F-to-180-°F	3,000 psi	**K5000**
Silicone Food-Grade (FDA) High-Temperature						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1", 1⅛", 1⅜", 2"	70A	White	Semi-Clear	-80-°F-to-450-°F	700 psi	**K5001**
Viton Chemical-Resistant						
3/16", ¼", 5/16", ⅜", ½", ⅝", ¾", 1"	70A	Black	Opaque	-10-°F-to-400-°F	1,000 psi	**K5002**

Rubber Balls

Used as seals in pumps and check valves, and are commonly used inside of vibrating sifters to help clean screens in food, beverage, and pharmaceutical applications.

Single Gripping

Dual-Gripping



Edge Guard

Edge Trim and Edge Guard

TRIM-LOK.com

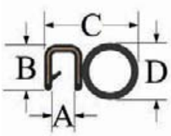
Gripping Finger Trim— Flexible vinyl edge trim has a metal core and 1 or 2 gripping fingers to hold trim in place.
- Textured black

Edge Guard—Preglued, flexible black plastic trim with decorative finish. Great for vending machines, running boards, fender flares, car door edges and furniture.
- Temp. range: -20° to 150°F
- Hardness: 97
- Durometer: Shore A

Fits Edge	Leg Length	Overall Width	25 ft Item No.	100 ft Item No.	250 ft Item No.
Single Gripping Finger					
½ in	1 in	0.67 in	**10C964**	**10C967**	—
¼ in	0.5625 in	0.42 in	**10C933**	**10C939**	**10C945**
⅛ in	0.4375 in	0.295 in	**10H766**	**10H770**	**10H774**
	0.5625 in	0.295 in	**10C930**	**10C936**	**10C942**
1/16 in	0.375 in	0.2325 in	**10H753**	**10H757**	**10H761**
3/16 in	0.5625 in	0.3575 in	**10C932**	**10C938**	**10C944**
Dual Gripping Finger					
¼ in	0.5 in	0.42 in	**10C951**	**10C957**	**10C963**
⅛ in	0.4375 in	0.295 in	**10H778**	**10H782**	**10H786**
	0.5625 in	0.295 in	**10C948**	**10C954**	**10C960**
1/16 in	0.4375 in	0.2325 in	**10H776**	**10H780**	**10H784**
	0.5625 in	0.2325 in	**10C946**	**10C952**	**10C958**
3/16 in	0.5312 in	0.3575 in	**10C950**	**10C956**	—
3/32 in	0.4375 in	0.2638 in	**10H777**	**10H781**	—
39/1250 in	0.4375 in	0.2013 in	**10H775**	**10H779**	**10H783**
1563/10000 in	0.5625 in	0.3263 in	**10C949**	**10C955**	—

Overall Height	25 ft Item No.	50 ft Item No.	250 ft Item No.	100 ft Item No.
Edge Guard				
0.3125 in	**44M839**	**44M840**	**44M841**	—
0.4375 in	**44M842**	—	**44M844**	**44M843**

Top Bulb w/Vinyl Grip



Side Bulb w/Vinyl Grip

44M851

44M857

Edge Trim Seals

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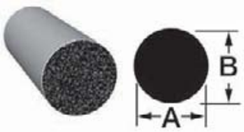
- Temp. range: -20° to 150°F
- Vinyl meets FMVSS 302 for flammability
- Textured black

Trim with EPDM closed-cell sponge rubber bulb is weather resistant. Nonmarking material. For indoor and outdoor use.

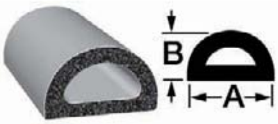
Flap and Trim Seals—EPDM dense rubber base with closed-cell EPDM rubber bulb is ideal for sealing boat hatches, RV compartment doors, tool boxes and tonneau covers.
- Temp. range: -40° to 212°F

Fits Edge (A)	Leg Length (B)	Overall Width (C)	Bulb Dia. (D)	25 ft Item No.	100 ft Item No.	250 ft Item No.
Top Bulb w/Vinyl Grip						
0.0625 in	0.375 in	0.2 in	0.2 in	**10C978**	**10C986**	**10C994**
	0.5625 in	0.375 in	0.375 in	**10D004**	**10D016**	—
0.125 in	0.5625 in	0.625 in	0.625 in	**10D078**	**10D090**	—
	0.5625 in	0.75 in	0.75 in	**10D115**	**10D127**	—
	0.5625 in	0.375 in	0.375 in	**10D006**	**10D018**	**10D030**
	0.5625 in	0.437 in	0.437 in	**10D042**	**10D054**	**10D066**
0.250 in	0.5 in	0.375 in	0.375 in	**10D009**	**10D021**	—
	0.5 in	0.625 in	0.625 in	**10D081**	**10D093**	—
	0.5 in	0.75 in	0.75 in	**10D118**	**10D130**	—
Side Bulb w/Vinyl Grip						
0.0625 in	0.5625 in	0.9825 in	0.75 in	**10D107**	**10D119**	—
0.125 in	0.5625 in	0.732 in	0.437 in	**10D036**	**10D048**	**10D060**
	0.5625 in	0.92 in	0.625 in	**10D072**	**10D084**	**10D096**
	0.5625 in	1.045 in	0.75 in	**10D109**	**10D121**	**10D133**
	0.5625 in	0.67 in	0.375 in	**10C999**	**10D012**	—
0.1875 in	0.5312 in	1.1075 in	0.75 in	**10D111**	**10D123**	**10D135**
	0.5312 in	0.7325 in	0.375 in	**10D002**	**10D014**	—
0.250 in	0.5 in	1.045 in	0.625 in	**10D075**	**10D087**	—
	0.5 in	1.17 in	0.75 in	**10D112**	**10D124**	—
	0.5 in	0.795 in	0.375 in	**10D003**	**10D015**	—

Fits Edge	Overall Width	Overall Height	Leg Length	25 ft Item No.	100 ft Item No.
Flap					
0.190 in	—	1.369 in	0.444 in	**44M851**	**44M852**
0.98 in	0.445 in	0.945 in	0.422 in	**44M857**	**44M858**
Trim					
0.125 in	0.433 in	0.847 in	0.426 in	**44M848**	**44M849**
0.158 in	0.641 in	0.433 in	0.433 in	**44M854**	**44M855**



Cord Stock



D-Shape

D-Shape Thick Wall

Rectangle Foam

TRIM-LOK.com

Cord Stock and Foam Rubber Seals

- Temp. range: -20° to 150°F
- Black

Cord Stock—Water- and weather-resistant EPDM closed-cell sponge rubber seals are softer than rubber bulbs. Create an easy-to-close seal against dust, noise, and vibration. Solid round cord. Cut to length with scissors or knife.

Foam Rubber Seals—Water-resistant EPDM closed-cell sponge rubber seals are weather resistant. Create an easy-to-close seal against dust, noise, and vibration. Cut to length with scissors or knife. High-strength foam acrylic adhesive creates an airtight seal between the rubber and substrate and has low initial tack for easy repositioning. General-purpose pressure sensitive adhesive is ideal for light-duty applications.

Overall Width (A)	Overall Height (B)	Core Dia (C)	Length	Item No.
D-Shaped Thick				
Foam Acrylic				
½ in	½ in	0.188 in	25 ft	**10D146**
¾ in	¾ in	0.375 in	25 ft	**10G544**
Pressure Sensitive Adhesive				
¾ in	¾ in	0.375 in	25 ft	**10G541**

Overall Width (A)	Overall Height (B)	Length	Item No.
Cord Stock			
Plain			
½ in	½ in	25 ft	**10G523**
¼ in	¼ in	25 ft	**10G517**
⅜ in	⅜ in	25 ft	**10G520**
D-Shaped			
Foam Acrylic			
½ in	¼ in	25 ft	**10D170**
¾ in	⅜ in	25 ft	**10G471**
¾ in	⅝ in	25 ft	**10G483**
⅜ in	¼ in	25 ft	**10G538**
⅝ in	⅜ in	25 ft	**10D164**
Pressure Sensitive Adhesive			
½ in	¼ in	25 ft	**10D167**
¾ in	½ in	25 ft	**10G474**
¾ in	⅝ in	25 ft	**10G480**
⅜ in	¼ in	25 ft	**10G535**
⅝ in	⅜ in	25 ft	**10D161**
Rectangular			
Foam Acrylic			
½ in	¼ in	25 ft	**10G495**
¾ in	½ in	25 ft	**10G514**
Pressure Sensitive Adhesive			
¾ in	¼ in	25 ft	**10G505**
¾ in	½ in	25 ft	**10G511**

Single Piece

Double Piece

Locking Gasket Key

General Hand Tool Kit

TRIM-LOK.com

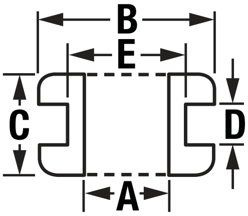
Window Locking Gaskets

- Temp. range: -20° to 158°F
- Hardness: Shore A70
- Black

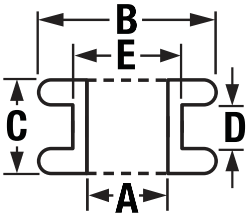
EPDM dense rubber locking gaskets secure gaps between glass windows and metal. Locking gasket key fits all double-piece locking gaskets. Maintenance Tool Kit 10G571 helps ensure an easy, efficient locking gasket installation.

Overall Height	Fits Edge	Fits Glass	Min. Clearance Between Glass and Edge	Length	Item No.
Window Locking Gasket					
Single Piece					
.9"	0.09 in to 0.14 in	3/16 in to ¼ in	0.25 in	25 ft	**10G559**
1"	0.075 in to 0.140 in	3/16 in to ¼ in	0.145 in	25 ft	**10G557**
1.07"	0.035 in to 0.067 in	3/16 in to ¼ in	0.3125 in	25 ft	**10G549**
Double Piece (requires key)					
1.1"	0.093 in to 0.14 in	3/16 in to ¼ in	0.23 in	25 ft	**10G547**
EPDM Locking Gasket Key					
0.32 in	—	—	—	25 Ft.	**10G561**

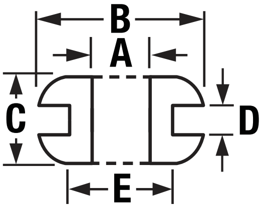
Description	Item No.
Maintenance Tool Kit	
2-pc. Uninsulated Gasket Splay Bar and Locking Key Puller	**10G571**



Style 1



Style 3



Style 5

Rubber Grommets

- General purpose grade

Protect against abrasion damage when wires, tubes, and other objects are inserted through holes in metal, plastic, or other hard materials.

Inside Dia. (A)	Outside Dia. (B)	Overall Thickness (C)	Panel Thickness (D)	Panel Hole Dia. (E)	Item No.	Pkg. Qty.
Style 1						
General Purpose SBR - Meets ASTM D2000 2AA606						
3/16 in	13/32 in	5/16 in	3/32 in	9/32 in	**3MPN7**	100
9/32 in	9/16 in	1/4 in	1/16 in	3/8 in	**3MPK5**	100
5/16 in	11/16 in	7/16 in	1/4 in	1/2 in	**3MPP7**	100
3/8 in	5/8 in	1/4 in	1/16 in	1/2 in	**3MPL3**	50
3/8 in	7/8 in	3/8 in	1/8 in	5/8 in	**3MPK7**	100
1/2 in	13/16 in	9/32 in	1/16 in	5/8 in	**3MPL5**	50
1/2 in	1 in	9/32 in	3/32 in	3/4 in	**3MPK8**	100
9/16 in	1 in	5/16 in	1/16 in	3/4 in	**3MPR4**	100
5/8 in	1 1/8 in	5/16 in	1/16 in	7/8 in	**3MPR5**	100
5/8 in	1 1/8 in	3/8 in	1/8 in	7/8 in	**3MPR6**	100
3/4 in	1 1/8 in	5/16 in	3/32 in	15/16 in	**3MPL8**	50
3/4 in	1 1/2 in	5/16 in	3/32 in	1 1/8 in	**3MPT1**	25
7/8 in	1 5/8 in	7/16 in	1/16 in	1 1/4 in	**3MPL1**	25
1 1/4 in	1 7/8 in	11/32 in	1/16 in	1 1/2 in	**3MPT4**	25
1 1/4 in	1 7/8 in	3/8 in	3/32 in	1 1/2 in	**3MPT5**	25
1 in	1 3/4 in	3/8 in	3/32 in	1 3/8 in	**3MPT2**	25
1 in	1 3/4 in	13/32 in	7/64 in	1 3/8 in	**3MPT3**	25
1 1/2 in	2 3/8 in	3/8 in	3/32 in	2 in	**3MPT7**	25
Style 3						
1/4 in	9/16 in	5/16 in	1/16 in	7/16 in	**3MPT9**	20
5/16 in	3/4 in	3/8 in	1/8 in	1/2 in	**3MPU1**	20
3/8 in	15/16 in	17/32 in	5/32 in	5/8 in	**3MPK9**	100
13/32 in	13/16 in	5/16 in	1/16 in	9/16 in	**3MPU2**	20
Style 5						
General Purpose SBR - Meets ASTM D2000 2AA606						
3/16 in	5/8 in	7/32 in	1/16 in	5/16 in	**3MPU5**	20
3/8 in	1 in	13/32 in	9/64 in	11/16 in	**3MPU6**	20

Specifications: AN 931 No.	MS 35489 No.	Inside Dia. (A)	Outside Dia. (B)	Overall Thickness (C)	Panel Thickness (D)	Panel Hole Dia. (E)	Item No.	Pkg. Qty.
Style 1								
Oil Resistant Buna-N - Meets ASTM D2000 2BG506								
3-5	4	3/16 in	7/16 in	3/16 in	1/16 in	5/16 in	**3MRG4**	50
A3-5	33	3/16 in	7/16 in	1/4 in	1/8 in	5/16 in	**3MRG5**	50
A5-12	39	5/16 in	1 in	3/8 in	1/8 in	3/4 in	**3MRJ3**	25
B6-10	69	3/8 in	7/8 in	7/16 in	3/16 in	5/8 in	**3MRK2**	50
A10-14	46	5/8 in	1 1/8 in	3/8 in	1/8 in	7/8 in	**3MRL4**	10
B10-14	75	5/8 in	1 1/8 in	7/16 in	3/16 in	7/8 in	**3MRL5**	10
12-20	135	3/4 in	1 5/8 in	1/4 in	1/16 in	1 1/4 in	**3MRN5**	10
12-17	20	3/4 in	1 3/8 in	3/8 in	1/16 in	1 1/16 in	**3MRN2**	25
A12-17	49	3/4 in	1 3/8 in	7/16 in	1/8 in	1 1/16 in	**3MRN3**	25
C12-17	107	3/4 in	1 3/8 in	9/16 in	1/4 in	1 1/16 in	**3MRN4**	25
A14-20	51	7/8 in	1 5/8 in	1/2 in	1/8 in	1 1/4 in	**3MRN9**	25
B14-20	80	7/8 in	1 5/8 in	9/16 in	3/16 in	1 1/4 in	**3MRP1**	25
16-22	23	1 in	1 3/4 in	7/16 in	1/16 in	1 3/8 in	**3MRP2**	10
A16-22	52	1 in	1 3/4 in	1/2 in	1/8 in	1 3/8 in	**3MRP3**	10
B16-22	81	1 in	1 3/4 in	9/16 in	3/16 in	1 3/8 in	**3MPN4**	25
24-28	27	1 1/2 in	2 1/8 in	7/16 in	1/16 in	1 3/4 in	**3MRP4**	25
A24-28	56	1 1/2 in	2 1/8 in	1/2 in	1/8 in	1 3/4 in	**3MRP5**	25
B24-28	85	1 1/2 in	2 1/8 in	9/16 in	3/16 in	1 3/4 in	**3MPN5**	25
C24-28	114	1 1/2 in	2 1/8 in	5/8 in	1/4 in	1 3/4 in	**3MPN6**	25

Rubber Edging

Material	Groove Width	Groove Depth	Overall Width	Overall Height	L	Temp. Range	Color	Std.	Item No.
Style A									
SBR	3/16 in	7/16 in	5/16 in	1/2 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG1**
	1/4 in	5/16 in	3/8 in	3/8 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG2**
Style B									
SBR	1/32 in	5/32 in	7/64 in	7/32 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG5**
	1/16 in	11/32 in	7/32 in	7/16 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG6**
	3/32 in	21/64 in	3/16 in	3/8 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG7**
Style C									
SBR	1/8 in	1/4 in	1/4 in	5/8 in	100 ft	0 °F to 220 °FF	Black	ASTM D2000 AA	**3HCG8**
Neoprene	1/32 in	9/32 in	9/32 in	3/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCG9**
	1/8 in	23/32 in	9/16 in	1 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH1**
	1/4 in	1/2 in	1/2 in	5/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH2**
Style D									
Neoprene	1/16 in	1/4 in	3/16 in	5/16 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH5**
	3/16 in	3/8 in	3/8 in	9/16 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH6**
Style E									
Neoprene	1/16 in	5/16 in	1/8 in	3/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH8**
	1/8 in	1/4 in	1/4 in	5/16 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCH9**
Style F									
Neoprene	1/32 in	1/4 in	13/64 in	3/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ2**
	1/16 in	3/8 in	1/4 in	1/2 in	10 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**38EH43**
	1/16 in	3/8 in	1/4 in	1/2 in	25 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**38EH44**
	1/16 in	3/8 in	1/4 in	1/2 in	50 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**38EH45**
	1/16 in	3/8 in	1/4 in	1/2 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ3**
	1/8 in	15/32 in	23/64 in	5/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ4**
	3/16 in	9/16 in	15/32 in	3/4 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ5**
	1/4 in	19/32 in	37/64 in	13/16 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ6**
	3/8 in	25/32 in	43/64 in	1 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCJ8**
Silicone	1/16 in	3/8 in	1/4 in	1/2 in	100 ft	-90 °F to 450 °FF	Red	ASTM D2000 GE	**3HCJ9**
	1/8 in	15/32 in	23/64 in	5/8 in	100 ft	-90 °F to 450 °FF	Red	ASTM D2000 GE	**3HCK1**
Style G									
Neoprene	1/32 in	5/32 in	11/64 in	1/4 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCK3**
	1/16 in	7/32 in	15/64 in	5/16 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCK4**
	1/8 in	9/32 in	19/64 in	3/8 in	100 ft	-20 °F to 150 °FF	Black	ASTM D2000 BC	**3HCK5**
Style I									
EPDM	1/4 in	5/8 in	3/4 in	15/16 in	100 ft	-40 °F to 210 °FF	Black	ASTM D2000 BA	**3HCL2**
	3/8 in	5/8 in	3/4 in	15/16 in	100 ft	-40 °F to 210 °FF	Black	ASTM D2000 BA	**3HCL3**

Style A

Style B

Style C

Style D

Style E

Style F

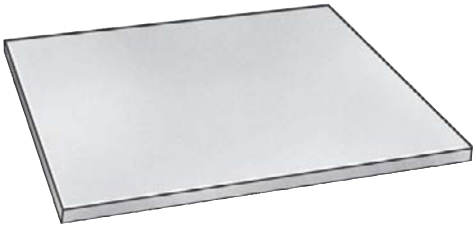
Style G

Style I

Details on page A1.

Plastic Information

Material, Grade	Tensile Strength	Tensile Strength Rating	Impact Strength	Impact Strength Rating	Plastic Hardness	Plastic Hardness Rating	Friction Coefficient	Friction Rating	Water Absorption Rating	Machinability	Wear Factor	Corrosion and Chemical Resistance	Plastic Density	Temp. Range °F
ABS, Standard	7,200 psi	Good	4.6 ft-lb/in	Good	Rockwell R105	Hard	0.5	Slippery	Poor	Good	Fair	Fair	0.038 lb/cu in	-40 to 190
Acetal Copolymer, Standard	9,100 psi	Good	1.1 ft-lb/in	Poor	Rockwell M90	Hard	0.35	Slippery	Good	Excellent	Excellent	Fair	0.051 lb/cu in	-50 to 180
Acetal Homopolymer, Standard	9,600 psi	Good	1.2 ft-lbs/in	Poor	Rockwell M94	Hard	0.2	Very Slippery	Good	Excellent	Excellent	Fair	0.051 lb/cu in	-20 to 180
Acetal Homopolymer, PTFE-Filled	7,690 psi	Good	0.7 ft-lb/in	Poor	Rockwell M89	Hard	0.12	Very Slippery	Good	Excellent	Excellent	Fair	0.0526 lb/cu in	-40 to 185
Acetal Copolymer, Standard	9,100 psi	Good	1.1 ft-lb/in	Poor	Rockwell M90	Hard	0.35	Slippery	Good	Excellent	Excellent	Fair	0.051 lb/cu in	-50 to 180
Cast Acrylic, Standard	9,000 psi	Good	0.3 ft-lb/in	Poor	Rockwell M95	Hard	0.8	Not Slippery	Poor	Good	Fair	Fair	0.043 lb/cu in	40 to 190
Cast Nylon, Standard	12,000 psi	Excellent	0.4 ft-lb/in	Poor	Rockwell M85	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 200
Cast Nylon, Enhanced Temperature	12,000 psi	Excellent	0.4 ft-lb/in	Poor	85D	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 260
Cast Nylon, MDS-Filled	11,000 psi	Excellent	0.5 ft-lb/in	Poor	Rockwell M80	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 200
Cast Nylon, Oil-Filled	9,900 psi	Good	1.0 ft-lb/in	Poor	Rockwell M85	Hard	0.14	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 220
CPVC, Standard	7,500 psi	Good	1.2 ft-lbs/in	Poor	Rockwell R115	Hard	0.6	Not Slippery	Excellent	Fair	Fair	Excellent	0.056 lb/cu in	30 to 200
Garolite CE, Standard	10,000 psi	Good	1.7 ft-lb/in	Poor	Rockwell M100	Hard	—	Not Rated	Poor	Good	Fair	Fair	0.049 lb/cu in	0 to 250
Garolite G-10, Standard	40,000 psi	Excellent	14.0 ft-lb/in	Excellent	Rockwell M110	Extra Hard	—	Not Rated	Good	Good	Fair	Good	0.065 lb/cu in	0 to 270
Garolite G-10/ FR4, Standard	38,000 psi	Excellent	14.0 ft-lb/in	Excellent	Rockwell M110	Extra Hard	—	Not Rated	Good	Good	Fair	Good	0.072 lb/cu in	-70 to 280
Garolite G-11, Standard	37,000 psi	Excellent	12.0 ft-lb/in	Excellent	Rockwell M110	Extra Hard	—	Not Rated	Poor	Fair	Fair	Good	0.066 lb/cu in	0 to 300
Garolite XX, Standard	15,000 psi	Excellent	0.6 ft-lb/in	Poor	Rockwell M110	Extra Hard	—	Not Rated	Poor	Good	Fair	Fair	0.049 lb/cu in	0 to 250
Garolite LE, Standard	13,000 psi	Excellent	1.3 ft-lb/in	Poor	Rockwell M100	Hard	—	Not Rated	Poor	Excellent	Fair	Fair	0.048 lb/cu in	0 to 250
HDPE, Standard	4,500 psi	Poor	2.75 ft-lb/in	Good	65D	Medium	—	Very Slippery	Excellent	Fair	Good	Good	—	-58 to 170
HDPE, Marine	4,000 psi	Poor	1.1 ft-lb/in	Poor	64D	Medium	0.31	Slippery	Excellent	Fair	Good	Good	0.034 lb/cu in	-100 to 180
LDPE, Standard	850 psi	Poor	Excellent	Excellent	40D	Medium Soft	—	Slippery	Good	Good	Good	Good	0.033 lb/cu in	-60 to 150
Nylon 6/6, Standard	13,000 psi	Excellent	0.6 ft-lb/in	Poor	Rockwell M85	Hard	0.25	Very Slippery	Poor	Good	Excellent	Fair	0.041 lb/cu in	-20 to 210
Nylon 6/6, Glass-Filled	13,000 psi	Excellent	0.6 ft-lb/in	Poor	Rockwell M88	Hard	0.16	Very Slippery	Poor	Good	Excellent	Fair	0.042 lb/cu in	-40 to 230
Nylon 6/12, Standard	11,000 psi	Excellent	0.3 ft-lb/in	Poor	Rockwell R115	Hard	0.4	Slippery	Poor	Good	Excellent	Fair	0.042 lb/cu in	-20 to 200
Extruded Nylon 6/6, MDS-Filled	12,500 psi	Excellent	0.5 ft-lb/in	Poor	Rockwell M85	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	-40 to 220
Nylon 6, Enhanced Temperature	12,000 psi	Excellent	0.4 ft-lb/in	Poor	85D	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 260
Nylon 6, Lubricant-Filled	11,000 psi	Excellent	0.5 ft-lb/in	Poor	85D	Hard	0.18	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 200
Nylon 6, MDS-Filled	11,000 psi	Excellent	0.5 ft-lb/in	Poor	Rockwell M80	Hard	0.2	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 200
Nylon 6, Oil-Filled	9,900 psi	Good	1.0 ft-lb/in	Poor	Rockwell M85	Hard	0.14	Very Slippery	Poor	Good	Excellent	Fair	—	32 to 220
PAI, Standard	15,000 psi	Excellent	0.8 ft-lb/in	Poor	Rockwell M106	Extra Hard	0.2	Very Slippery	Poor	Fair	Excellent	Excellent	—	-321 to 500
PAI, Electrically Insulating	20,000 psi	Excellent	2.0 ft-lb/in	Good	Rockwell M120	Extra Hard	0.35	Slippery	Poor	Fair	Excellent	Excellent	—	-321 to 500
PEEK, Standard	16,000 psi	Excellent	0.6 ft-lb/in	Poor	Rockwell M100	Hard	0.32	Slippery	Good	Fair	Excellent	Excellent	—	-20 to 480
PEI, Standard	17,000 psi	Excellent	0.5 ft-lb/in	Poor	Rockwell M112	Extra Hard	0.42	Slippery	Good	Fair	Fair	Good	—	-20 to 340
PETG, Standard	7,700 psi	Good	1.7 ft-lb/in	Poor	Rockwell R115	Hard	—	Slippery	Good	Good	Fair	Good	—	-40 to 153
Polycarbonate, Standard	9,700 psi	Good	14.0 ft-lb/in	Excellent	Rockwell R120	Hard	0.53	Not Slippery	Good	Fair	Fair	Fair	0.043 lb/cu in	-40 to 240
Polyester, Standard	12,400 psi	Excellent	0.5 ft-lb/in	Poor	—	Hard	0.2	Very Slippery	Good	Good	Fair	Fair	—	-30 to 210
Polyester, Lubricant-Filled	10,500 psi	Excellent	0.4 ft-lb/in	Poor	Rockwell M96	Hard	0.19	Very Slippery	Good	Good	Fair	Fair	—	32 to 210
Polyimide, Standard	16,000 psi	Excellent	Not Rated	Poor	Not Rated	Not Rated	—	Slippery	Poor	Fair	Excellent	Excellent	0.051 lb/cu in	-450 to 750
Polypropylene, Standard	4,200 psi	Poor	1.2 ft-lb/in	Poor	Rockwell M85	Hard	0.5	Slippery	Excellent	Fair	Fair	Good	0.033 lb/cu in	0 to 180
Polystyrene, Standard	2,500 psi	Poor	0.2 ft-lb/in	Poor	Rockwell R70	Hard	0.5	Slippery	Poor	Fair	Fair	Fair	0.038 lb/cu in	0 to 150
PPS, Standard	10,900 psi	Excellent	1.4 ft-lb/in	Poor	Rockwell M84	Hard	0.2	Very Slippery	Excellent	Good	Fair	Good	—	32 to 430
PTFE, Standard	2,900 psi	Poor	—	—	55D	Medium Soft	0.08	Very Slippery	Excellent	Excellent	Excellent	Excellent	0.08 lb/cu in	-300 to 500
PTFE, Glass-Filled	1,000 psi	Poor	Not Rated	Good	55D	Medium Soft	0.12	Very Slippery	Excellent	Excellent	Excellent	Excellent	0.08 lb/cu in	-350 to 500
PVC Type 1, Standard	7,200 psi	Good	1.0 ft-lb/in	Poor	Rockwell R115	Hard	0.6	Not Slippery	Good	Fair	Fair	Excellent	0.051 lb/cu in	-20 to 140
PVC Type 2, Standard	7,250 psi	Good	1.0 ft-lbs/in	Poor	Rockwell R110	Hard	0.6	Not Slippery	Good	Fair	Fair	Excellent	0.051 lb/cu in	-20 to 140
Acrylic/PVC, Standard	6,100 psi	Good	—	—	—	Hard	—	Slippery	Good	Fair	Fair	Excellent	—	—
UHMW Polyethylene, Standard	5,800 psi	Good	Excellent	Excellent	66D	Medium	0.12	Very Slippery	Excellent	Good	Excellent	Good	—	-22 to 180
UHMW Polyethylene, Enhanced Temperature	6,800 psi	Good	Excellent	Excellent	68D	Medium	0.12	Very Slippery	Excellent	Good	Excellent	Good	—	-22 to 275



Plastic Sheets

Nom. Size	▶CHOOSE: Plastic Thickness	▶CHOOSE: Color	Item No.
ABS			
24" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Black, Beige	**K6414**
Acetal Homopolymer			
12" W x 12" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6309**
24" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6313**
Acrylic			
24" W x 24" L	0.09375 in, 0.125 in, 0.171875 in, 0.21875 in, 0.234375 in	Clear	**K6187**
24" W x 48" L	0.09375 in, 0.125 in, 0.171875 in, 0.21875 in, 0.234375 in	Clear	**K6188**
48" W x 48" L	0.09375 in, 0.125 in, 0.171875 in, 0.21875 in, 0.234375 in	Clear	**K6189**
48" W x 96" L	0.09375 in, 0.125 in, 0.171875 in, 0.21875 in, 0.234375 in	Clear	**K6190**
48" W x 96" L	0.125 in, 0.171875 in, 0.234375 in	Black, White, Bronze, Gray	**K6254**
Cast Acrylic			
12" W x 12" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.34375 in, 0.46875 in, 0.5 in, 0.703125 in, 0.9375 in, 1 in, 1.25 in, 1.5 in, 2 in, 3 in	Clear	**K6233**
12" W x 24" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.34375 in, 0.46875 in, 0.5 in, 0.703125 in, 0.9375 in, 1 in, 1.25 in, 1.5 in, 2 in, 3 in	Clear	**K6234**
24" W x 48" L	0.125 in, 0.1875 in, 0.25 in	Bronze, Gray, Frosted, Red, Orange, Yellow, Green, Blue	**K6268**
24" W x 48" L	0.125 in, 0.171875 in, 0.234375 in, 0.34375 in, 0.46875 in, 0.703125 in, 0.9375 in, 1.25 in	Clear	**K6240**
32" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.5 in, 1 in, 2 in	Clear	**K6241**
36" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.5 in, 1 in, 2 in	Clear	**K6242**
48" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.34375 in, 0.46875 in, 0.5 in, 1 in, 2 in	Clear	**K6243**
48" W x 48" L	0.125 in, 0.1875 in, 0.25 in	Bronze, Gray, Frosted, Red, Orange, Yellow, Green, Blue, Black, White	**K6269**
48" W x 60" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.5 in, 1 in, 2 in	Clear	**K6244**
48" W x 72" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.5 in, 1 in, 2 in	Clear	**K6245**
48" W x 96" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.34375 in, 0.46875 in, 0.5 in, 1 in, 2 in	Clear	**K6246**
48" W x 96" L	0.125 in, 0.1875 in, 0.25 in	Bronze, Gray, Frosted, Red, Orange, Yellow, Green, Blue, Black, White	**K6270**
CPVC			
24" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.5 in, 1 in	Gray	**K5648**
HDPE			
12" W x 12" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.75 in, 2 in	Off-White, Black	**K6039**
12" W x 24" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in	Off-White, Black, Yellow, Blue, Red, Green	**K6040**
12" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in	Off-White, Black, Yellow, Blue, Beige, Red, Green	**K6041**
24" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in	Off-White, Black, Yellow, Blue, Red, Green	**K6049**
36" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White	**K6057**
48" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White, Off-White, Yellow, Blue, Beige, Red	**K6061**
48" W x 60" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White	**K6062**
48" W x 72" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White	**K6063**
48" W x 96" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in	Off-White, Black, Red, Green	**K6064**
Nylon 6/6			
48" W x 96" L	0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	Black	**K5921**
PETG			
48" W x 96" L	0.0625 in, 0.078125 in, 0.125 in, 0.1875 in, 0.25 in	Clear	**K5821**

Nom. Size	▶CHOOSE: Plastic Thickness	▶CHOOSE: Color	Item No.
Polycarbonate			
12" W x 12" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in	Clear	**K5572**
12" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5575**
24" W x 24" L	0.0625 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5540**
24" W x 24" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.375 in, 0.5 in, 1 in, 1.25 in, 2 in	Clear	**K5579**
24" W x 36" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5580**
24" W x 48" L	0.0625 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5541**
24" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in, 2 in	Clear	**K5581**
24" W x 48" L	0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in	Bronze, Gray, Black, White	**K5607**
32" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5582**
36" W x 36" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5583**
36" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5584**
48" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5542**
48" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5585**
48" W x 48" L	0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in	Bronze, Gray, Black, White	**K5608**
48" W x 60" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5586**
48" W x 72" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5587**
48" W x 96" L	0.0625 in, 0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5543**
48" W x 96" L	0.0625 in, 0.09375 in, 0.125 in, 0.171875 in, 0.1875 in, 0.21875 in, 0.234375 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5588**
48" W x 96" L	0.125 in, 0.171875 in, 0.1875 in, 0.234375 in, 0.25 in	Bronze, Gray, Black, White	**K5609**
48" W x 96" L	0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Clear	**K5524**
Polypropylene			
24" W x 24" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White	**K5495**
24" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White	**K5496**
48" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 2 in	White	**K5497**
48" W x 96" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 2 in	White, Off-White	**K5498**

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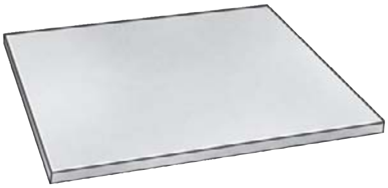
For more information on Plastics, see page 2208



Plastic Sheets

Nom. Size	▶CHOOSE: Plastic Thickness	▶CHOOSE: Color	Item No.
PTFE			
12" W x 12" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 0.875 in, 1 in, 1.5 in, 2 in	White, Black	**K5799**
24" W x 24" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 0.875 in, 1 in, 1.5 in, 2 in	White, Black	**K5807**
24" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 0.875 in, 1 in, 1.5 in, 2 in	White, Black	**K5808**
48" W x 48" L	0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 0.875 in	White	**K5810**
PVC Type 1			
48" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in	Gray	**K5689**
48" W x 96" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in	Gray, Clear	**K5692**
UHMW Polyethylene			
12" W x 12" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 3 in, 3.5 in, 4 in, 4.5 in, 5 in	White, Black	**K5435**
12" W x 24" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 3 in, 4 in, 5 in	White, Black	**K5436**
24" W x 24" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 3 in, 4 in	White, Black	**K5441**
24" W x 48" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in, 3.25 in, 3.5 in, 4 in, 5 in	White, Black	**K5442**
36" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White, Black	**K5444**
48" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	Black, White	**K5446**
48" W x 60" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White, Black	**K5447**
48" W x 72" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White, Black	**K5448**
48" W x 96" L	0.0625 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 3 in, 4 in	White, Black	**K5449**
48" W x 96" L	0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	Black	**K5341**
48" W x 96" L	0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	Blue	**K5381**
48" W x 120" L	0.25 in, 0.375 in, 0.5 in, 0.75 in	White	**K5347**

Plastic Bars

Nom. Size	▶CHOOSE: Plastic Thickness	▶CHOOSE: Color	Item No.
ABS			
4" W x 24" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Beige, Black	**K6401**
Acetal Copolymer			
1½" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in	Black, White	**K6329**
Acetal Homopolymer			
1" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in	White, Black	**K6284**
1½" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in	White, Black	**K6280**
2" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in	White, Black	**K6292**
2½" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in	White, Black	**K6288**
3" W x 24" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6294**
3" W x 36" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6295**
4" W x 36" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6299**
4" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 1.75 in, 2 in, 2.25 in, 2.5 in, 2.75 in, 3 in	White, Black	**K6300**
Cast Acrylic			
4" W x 12" L	0.125 in, 0.1875 in, 0.25 in	Black, Blue, Green, Red, White, Yellow	**K6261**
HDPE			
2" W x 48" L	0.25 in, 0.5 in, 0.75 in, 1 in	White, Black	**K6006**
3" W x 12" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White	**K6050**
4" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White	**K6060**
Nylon 6/12			
1" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 1 in	White, Off-White	**K5881**
4" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 1 in	White, Off-White	**K5890**
Nylon 6/6			
2" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	Black	**K5916**
2" W x 24" L	0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Off-White, Black	**K5949**
3" W x 48" L	0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Off-White, Black	**K5957**
4" W x 48" L	0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Off-White, Black	**K5968**
4" W x 24" L	0.5 in, 0.75 in, 1 in	Black	**K5905**
6" W x 24" L	0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Off-White, Black	**K5970**
6" W x 48" L	0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	Off-White, Black	**K5972**
PEEK			
4" W x 48" L	0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	Beige	**K5845**
Polypropylene			
6" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.5 in, 1 in, 1.5 in, 2 in	White	**K5488**
PTFE			
1" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White, Black	**K5764**
1" W x 36" L	0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in	White, Black	**K5763**
2" W x 12" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5775**
2" W x 24" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5776**
2" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5778**
2½" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 2 in	White	**K5774**
3" W x 12" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5782**
3" W x 48" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5785**
3" W x 36" L	0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5784**
4" W x 24" L	0.03125 in, 0.0625 in, 0.09375 in, 0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5793**
4" W x 36" L	0.125 in, 0.1875 in, 0.25 in, 0.375 in, 0.5 in, 0.625 in, 0.75 in, 1 in, 1.5 in, 2 in	White, Black	**K5794**
PVC Type 1			
3" W x 48" L	0.0625 in, 0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 2 in	Gray	**K5666**
UHMW Polyethylene			
1" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in	White, Black	**K5406**
1½" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in	White, Black	**K5400**
2" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in	White, Black	**K5416**
2½" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in	White	**K5413**
3" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in	White, Black	**K5419**
4" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White, Black	**K5428**
5" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White	**K5431**
6" W x 48" L	0.125 in, 0.25 in, 0.375 in, 0.5 in, 0.75 in, 1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in	White, Black	**K5434**

For more information on Plastics, see page 2208

Plastic Rods

Plastic Diameter	▶CHOOSE: Plastic Length	▶CHOOSE: Color	Plastic Clarity	Item No.
Acetal Copolymer				
¼ in	1 ft, 2 ft, 3 ft, 6 ft	Black, White	Opaque	**K6458**
⅜ in	1 ft, 2 ft, 3 ft, 6 ft	Black, White	Opaque	**K6469**
1 ¼ in	1 ft, 2 ft, 3 ft, 4 ft, 6 ft, 8 ft	White, Black	Opaque	**K6451**
1 ⅜ in	1 ft, 3 ft	White	Opaque	**K6454**
1 in	1 ft, 2 ft, 3 ft, 4 ft, 6 ft, 8 ft	White, Black	Opaque	**K6456**
2 ½ in	1 ft, 2 ft, 3 ft, 4 ft, 6 ft, 8 ft	White, Black	Opaque	**K6459**
2 ⅛ in	1 ft, 3 ft, 4 ft	White	Opaque	**K6461**
2 in	1 ft, 2 ft, 3 ft, 4 ft, 6 ft, 8 ft	White, Black	Opaque	**K6464**
3 in	1 ft, 2 ft, 3 ft, 6 ft, 8 ft	White, Black	Opaque	**K6467**
4 in	1 ft, 2 ft, 3 ft, 6 ft, 8 ft	White, Black	Opaque	**K6471**
Acetal Homopolymer				
¼ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6500**
⅜ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6508**
½ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6499**
⅝ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6513**
¾ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6507**
⅞ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6516**
1 ½ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6491**
1 ¼ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6492**
1 ⅝ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6496**
1 in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6498**
1 in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft	Dark Brown, Brown	Opaque	**K6477**
2 ½ in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6501**
2 in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft, 8 ft	White, Black	Opaque	**K6504**
3 in	1 ft, 2 ft, 3 ft, 4 ft, 5 ft, 6 ft	White, Black	Opaque	**K6506**
4 in	1 ft, 3 ft, 4 ft	White	Opaque	**K6509**
5 in	1 ft, 3 ft, 4 ft	White	Opaque	**K6511**
6 in	1 ft, 3 ft, 4 ft	White	Opaque	**K6514**
CPVC				
⅜ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6529**
½ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6521**
⅝ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6531**
1 ½ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6518**
3 ¼ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6526**
Extruded Nylon 6/6				
3/16 in	1 ft, 3 ft, 6 ft, 8 ft	Black	Opaque	**K6543**
3/16 in	4 ft, 8 ft	Black	Opaque	**K6549**
¼ in	1 ft, 3 ft, 6 ft, 8 ft	Black	Opaque	**K6541**
½ in	1 ft, 3 ft, 6 ft, 8 ft	Black	Opaque	**K6540**
1 in	1 ft, 3 ft, 6 ft, 8 ft	Black	Opaque	**K6539**
Garolite CE				
⅞ in	1 ft, 2 ft, 4 ft	Brown	Opaque	**K6563**
Garolite G-10				
1/16 in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6566**
3/16 in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6570**
5/16 in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6573**
⅜ in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6572**
⅝ in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6574**
⅞ in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6575**
Garolite G-10/FR4				
5/16 in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6593**
⅜ in	1 ft, 2 ft, 4 ft	Yellow	Opaque	**K6592**
½ in	1 ft, 2 ft, 3 ft, 4 ft	Green, Yellow	Opaque	**K6583**
¾ in	1 ft, 2 ft, 3 ft, 4 ft	Green, Yellow	Opaque	**K6591**
1 ½ in	1 ft, 2 ft, 3 ft, 4 ft	Green, Yellow	Opaque	**K6577**
Garolite G-11				
¼ in	1 ft, 2 ft, 4 ft	Green	Opaque	**K6600**
½ in	1 ft, 2 ft, 4 ft	Green	Opaque	**K6599**
⅞ in	1 ft, 2 ft, 4 ft	Green	Opaque	**K6608**
Garolite LE				
¼ in	1 ft, 2 ft, 4 ft	Brown	Opaque	**K6615**
Garolite XX				
¼ in	1 ft, 2 ft, 4 ft	Brown	Opaque	**K6632**
1 ½ in	1 ft, 2 ft, 4 ft	Brown	Opaque	**K6625**
2 in	1 ft, 2 ft, 4 ft	Brown	Opaque	**K6634**
Nylon 6				
2 ⅛ in	1 ft, 5 ft	Black	Opaque	**K6660**
2 ¾ in	1 ft, 5 ft	Blue	Opaque	**K6651**
2 ¾ in	3 ft, 5 ft	Off-White	Opaque	**K6673**
3 ¼ in	1 ft, 5 ft	Off-White	Opaque	**K6676**
3 ¾ in	1 ft, 3 ft, 5 ft	Blue	Opaque	**K6655**
3 in	1 ft, 3 ft, 5 ft	Off-White	Opaque	**K6678**
Nylon 6/6				
1 ½ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Off-White	Opaque	**K6683**
1 ⅜ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Off-White	Opaque	**K6687**
1 in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Off-White	Opaque	**K6690**
2 in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Off-White	Opaque	**K6695**
4 in	1 ft, 3 ft, 4 ft	Off-White	Opaque	**K6700**
6 in	1 ft, 4 ft	Off-White	Opaque	**K6701**
PAI				
⅜ in	1 ft, 3 ft, 8 ft	Black	Opaque	**K6709**
¾ in	1 ft	Black	Opaque	**K6708**
PEEK				
¼ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Tan, Black	Opaque	**K6713**
⅜ in	1 ft, 3 ft, 6 ft, 8 ft	Tan, Black	Opaque	**K6717**
½ in	1 ft, 3 ft, 4 ft, 8 ft	Tan, Black	Opaque	**K6712**
⅝ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Black, Tan	Opaque	**K6718**
¾ in	1 ft, 8 ft	Black, Tan	Opaque	**K6716**
1 ½ in	1 ft, 3 ft, 4 ft, 8 ft	Black, Tan	Opaque	**K6709**
2 in	3 ft, 4 ft	Tan, Black	Opaque	**K6714**
PEI				
⅜ in	1 ft, 3 ft, 6 ft	Amber	Opaque	**K6729**
Polycarbonate				
½ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Clear	Clear	**K6734**
¾ in	1 ft, 3 ft, 4 ft, 6 ft, 8 ft	Clear	Clear	**K6739**
Polyester				
⅞ in	1 ft, 3 ft, 6 ft, 10 ft	White	Opaque	**K6764**
2 ¼ in	1 ft, 3 ft	White	Opaque	**K6756**
Polypropylene				
1 ½ in	4 ft, 8 ft	White	Opaque	**K6765**
PTFE				
⅛ in	1 ft, 3 ft	White	Opaque	**K6793**
3/16 in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6798**
¼ in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6793**
⅜ in	1 ft, 2 ft, 3 ft, 6 ft	Off-White	Opaque	**K6781**
⅝ in	1 ft, 2 ft, 3 ft, 6 ft	Off-White	Opaque	**K6782**
11/16 in	1 ft	White	Opaque	**K6794**
1 ½ in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6784**
1 ¼ in	1 ft, 2 ft, 3 ft, 6 ft	Off-White	Opaque	**K6772**
1 ¼ in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6785**
1 in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6791**
2 in	1 ft, 2 ft, 3 ft, 4 ft	White	Opaque	**K6797**
PVC Type 1				
⅜ in	4 ft, 5 ft, 8 ft, 10 ft	Gray	Opaque	**K6814**
½ in	4 ft, 5 ft, 8 ft, 10 ft	Gray	Opaque	**K6810**
1 ½ in	4 ft, 5 ft, 8 ft, 10 ft	Gray	Opaque	**K6806**
1 ⅛ in	4 ft, 5 ft, 8 ft, 10 ft	Gray	Opaque	**K6808**
1 in	4 ft, 5 ft, 8 ft, 10 ft	Gray	Opaque	**K6809**
PVC Type 2				
¼ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6821**
½ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6820**
⅝ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6828**
1 ½ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6817**
1 ¼ in	1 ft, 2 ft, 3 ft	Gray	Opaque	**K6818**
UHMW Polyethylene				
½ in	6 ft, 10 ft	White, Black	Opaque	**K6835**
⅝ in	6 ft, 10 ft	White, Black	Opaque	**K6852**
¾ in	6 ft, 10 ft	White, Black	Opaque	**K6845**
1 ½ in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6830**
1 in	1 ft, 3 ft, 6 ft, 10 ft	White, Black	Opaque	**K6834**
1 ¼ in	3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6831**
1 ¾ in	3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6832**
2 in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6840**
2 ½ in	3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6837**
3 ½ in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6841**
3 ¼ in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6842**
3 in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6844**
4 in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	White, Black	Opaque	**K6849**
5 ½ in	1 ft, 3 ft, 5 ft, 6 ft, 10 ft	Black, White	Opaque	**K6850**
5 in	1 ft, 3 ft, 5 ft, 10 ft	White, Black	Opaque	**K6851**
6 in	1 ft, 3 ft, 5 ft, 10 ft	White, Black	Opaque	**K6854**

Plastic Discs

Plastic Diameter	▶CHOOSE: Plastic Length	▶CHOOSE: Color	Plastic Clarity	Item No.
Acetal Homopolymer				
3 in	6 in, 3 in, 1 in, ½ in	Brown	Opaque	**K6423**
4 in	6 in, 3 in, 1 in, ½ in	Brown	Opaque	**K6424**
6 in	6 in, 3 in, 1 in, ½ in	Brown	Opaque	**K6425**
Cast Acrylic				
½ in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6427**
1 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6426**
2 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6430**
3 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6431**
4 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6432**
6 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6433**
8 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6434**
10 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6428**
12 in	2 in, 1 in, ½ in, ¼ in, ⅛ in	Clear	Clear	**K6429**
Polycarbonate				
½ in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6436**
1 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6435**
2 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6439**
3 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6440**
4 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6441**
6 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6442**
8 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6443**
10 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6437**
12 in	½ in, ¼ in, ⅛ in	Clear	Clear	**K6438**

For more information on Plastics, see page 2208

Plastic Films

Plastic Thickness	Plastic Width	Plastic Length	Color	Plastic Clarity	Backing Type	Item No.
ePTFE						
0.016 in	6 in	6 in	White	Opaque	Plain	497V95
	15 in	15 in	White	Opaque	Plain	497V91
	30 in	30 in	White	Opaque	Plain	497V86
	5 ft	5 ft	White	Opaque	Plain	497V81
LDPE						
0.004 in	36 in	100 ft	Black	Opaque	Plain	60TN01
	4 ft	100 ft	Clear	Clear	Plain	60TM82
	6 ft	100 ft	Black	Opaque	Plain	60TM98
	8 ft	100 ft	White	Opaque	Plain	60TN05
	10 ft	100 ft	Black	Opaque	Plain	60TM94
	16 ft	100 ft	Black	Opaque	Plain	60TM90
	20 ft	100 ft	White	Opaque	Plain	60TN03
0.006 in	4 ft	100 ft	Clear	Clear	Plain	60TM81
	6 ft	100 ft	Black	Opaque	Plain	60TM97
	8 ft	100 ft	Clear	Clear	Plain	60TM77
	10 ft	100 ft	Black	Opaque	Plain	60TM93
	12 ft	100 ft	Black	Opaque	Plain	60TM91
	16 ft	100 ft	Clear	Clear	Plain	60TM71
	24 ft	100 ft	Black	Opaque	Plain	60TM85
PEI						
0.04 in	12 in	12 in	Amber	Opaque	Plain	1NRC2
	12 in	24 in	Amber	Opaque	Plain	1NRE7
	12 in	4 ft	Amber	Opaque	Plain	1NRG3
	24 in	24 in	Amber	Opaque	Plain	1NRH8
	24 in	4 ft	Amber	Opaque	Plain	1NRK4
Polycarbonate						
0.005 in	24 in	4 ft	Frosted	Semi-Clear	Plain	2NJK4
	3 ⅓ ft	1,820 ft	Clear	Clear	Plain	56LJ87
0.01 in	24 in	24 in	Clear	Clear	Plain	2NJG8
	24 in	4 ft	Clear	Clear	Plain	2NJH6
	3 ⅓ ft	5 ft	Clear	Clear	Plain	56LJ90
	3 ⅓ ft	25 ft	Clear	Clear	Plain	56LJ92
	3 ⅓ ft	890 ft	Clear	Clear	Plain	56LJ95
0.015 in	24 in	4 ft	Clear	Clear	Plain	2NJJ7
	3 ⅓ ft	100 ft	Clear	Clear	Plain	56LK03
	3 ⅓ ft	600 ft	Clear	Clear	Plain	56LK04
0.02 in	24 in	4 ft	Clear	Clear	Plain	2NJH8
	4 ft	8 ft	Clear	Clear	Plain	56LK10
0.03 in	24 in	24 in	Clear	Clear	Plain	2NJH2
	24 in	4 ft	Clear	Clear	Plain	2NJH9
	4 ft	8 ft	Clear	Clear	Plain	56LK16
0.04 in	24 in	4 ft	Clear	Clear	Plain	2NJJ1
	4 ft	8 ft	Clear	Clear	Plain	56LK22
Polyester						
0.0005 in	36 in	12,500 ft	Clear	Clear	Plain	56LJ37
0.001 in	36 in	4,100 ft	Clear	Clear	Plain	56LJ43
	3 ⅓ ft	25 ft	Clear	Clear	Plain	2NJG1
0.002 in	3 ⅓ ft	10 ft	Clear	Clear	Plain	2NJF5
0.003 in	36 in	1,600 ft	Clear	Clear	Plain	56LJ55
	3 ⅓ ft	10 ft	Clear	Clear	Plain	2NJF6
0.004 in	36 in	1,250 ft	Clear	Clear	Plain	56LJ61
	3 ⅓ ft	10 ft	Clear	Clear	Plain	2NJF7
0.005 in	20 in	25 ft	Clear	Clear	Plain	2NJG3
	27 in	10 ft	Clear	Clear	Plain	2NJF3
	27 in	25 ft	Clear	Clear	Plain	2NJF9
	3 ⅓ ft	10 ft	Clear	Clear	Plain	2NJF8
	3 ⅓ ft	25 ft	Clear	Clear	Plain	2NJG4
0.01 in	36 in	25 ft	Clear	Clear	Plain	56LJ76
Polyimide						
0.001 in	12 in	12 in	Amber	Semi-Clear	Plain	497X97
	12 in	12 in	Amber	Semi-Clear	Silicone Adhesive	497Y07
	24 in	24 in	Amber	Semi-Clear	Plain	497Y01
	24 in	5 ft	Amber	Semi-Clear	Plain	497Y04
0.002 in	12 in	12 in	Amber	Semi-Clear	Plain	497X98
	12 in	12 in	Amber	Semi-Clear	Silicone Adhesive	497Y08
	24 in	24 in	Amber	Semi-Clear	Plain	497Y02
	24 in	5 ft	Amber	Semi-Clear	Plain	497Y05
0.005 in	12 in	12 in	Amber	Semi-Clear	Plain	497X99
	12 in	12 in	Amber	Semi-Clear	Silicone Adhesive	497Y09
	24 in	24 in	Amber	Semi-Clear	Plain	497Y03
	24 in	5 ft	Amber	Semi-Clear	Plain	497Y06
Polystyrene						
0.03 in	4 ft	8 ft	White	Opaque	Plain	3GXZ7
0.03125 in	12 in	12 in	White	Opaque	Plain	60RV17
	12 in	24 in	White	Opaque	Plain	60RV18
	24 in	24 in	White	Opaque	Plain	60RV19
	24 in	4 ft	White	Opaque	Plain	60RV20
	4 ft	8 ft	White	Opaque	Plain	60RV16

Plastic Thickness	Plastic Width	Plastic Length	Color	Plastic Clarity	Backing Type	Item No.
PTFE						
0.001 in	12 in	12 ft	White	Opaque	Plain	30FZ36
	12 in	24 in	White	Opaque	Plain	30FZ37
0.002 in	12 in	25 ft	White	Semi-Clear	Plain	30FY09
	24 in	50 ft	White	Semi-Clear	Plain	30FY14
0.003 in	12 in	25 ft	White	Opaque	Plain	30FY21
	24 in	25 ft	White	Semi-Clear	Plain	30FY25
	4 ft	4 ft	White	Opaque	Plain	30FZ47
0.004 in	6 in	10 ft	White	Opaque	Plain	30FY28
	12 in	50 ft	White	Opaque	Plain	30FY34
	24 in	50 ft	White	Opaque	Plain	30FY38
0.005 in	6 in	50 ft	White	Opaque	Plain	30FY42
	12 in	12 in	White	Opaque	Plain	30FZ53
	12 in	50 ft	White	Opaque	Plain	30FY46
	24 in	50 ft	White	Opaque	Plain	30FY50
0.01 in	6 in	5 ft	White	Opaque	Plain	30FY51
	12 in	12 in	White	Opaque	Plain	30FZ58
	12 in	25 ft	White	Opaque	Plain	30FY57
	12 in	5 ft	White	Opaque	Plain	30FY55
	24 in	50 ft	White	Opaque	Plain	30FY62
0.015 in	6 in	25 ft	White	Opaque	Plain	30FY65
	12 in	12 in	White	Opaque	Plain	30FZ63
	24 in	5 ft	White	Opaque	Plain	30FY71
0.02 in	6 in	10 ft	White	Opaque	Plain	30FY76
	12 in	12 in	White	Opaque	Plain	30FZ68
	24 in	10 ft	White	Opaque	Plain	30FY84
	24 in	50 ft	White	Opaque	Plain	30FY86
0.03 in	6 in	10 ft	White	Opaque	Plain	30FY88
0.031 in	12 in	12 in	White	Opaque	Plain	30FZ73
	12 in	5 ft	White	Opaque	Plain	30FY91
	24 in	5 ft	White	Opaque	Plain	30FY95
	24 in	24 ft	White	Opaque	Plain	30FZ75
	24 in	50 ft	White	Opaque	Plain	30FY98
0.06 in	6 in	5 ft	White	Semi-Clear	Plain	30FY99
	12 in	10 ft	White	Semi-Clear	Plain	30FZ05
	12 in	50 ft	White	Semi-Clear	Plain	30FZ07
	24 in	5 ft	White	Semi-Clear	Plain	30FZ08
0.09 in	6 in	10 ft	White	Opaque	Plain	30FZ13
0.125 in	6 in	5 ft	White	Opaque	Plain	30FZ24
	12 in	50 ft	White	Opaque	Plain	30FZ31
UHMW Polyethylene						
0.003 in	2 in	5 ft	White	Opaque	Acrylic Adhesive	53RW08
	2 in	15 ft	Off-White	Opaque	Plain	53TD62
	3 in	5 ft	Off-White	Opaque	Plain	53TC90
	3 in	12 in	Off-White	Opaque	Plain	53TA45
	5 in	6 ft	White	Opaque	Acrylic Adhesive	53RW10
	5 in	12 ft	Off-White	Opaque	Plain	53TC92
	6 in	36 in	White	Opaque	Acrylic Adhesive	53RY28
	6 in	15 ft	Off-White	Opaque	Plain	53TD64
	10 in	18 ft	Off-White	Opaque	Plain	53TD30
	12 in	36 in	Off-White	Opaque	Plain	53TC20
	12 in	25 ft	White	Opaque	Rubber Adhesive	53TA11
	12 in	25 ft	Off-White	Opaque	Plain	53TE02
	18 in	4 ft	White	Opaque	Acrylic Adhesive	53RV75
	18 in	25 ft	Off-White	Opaque	Plain	53TE03
	24 in	24 in	Off-White	Opaque	Plain	53TA85
	24 in	25 ft	Off-White	Opaque	Plain	53TE04
0.005 in	2 in	5 ft	White	Opaque	Acrylic Adhesive	53RW14
	2 in	10 ft	Off-White	Opaque	Plain	53TD32
	2 in	25 ft	Off-White	Opaque	Plain	53TE05
	3 in	12 in	Off-White	Opaque	Plain	53TA51
	5 in	6 ft	White	Opaque	Acrylic Adhesive	53RW16
	6 in	24 in	Off-White	Opaque	Plain	53TA88
	6 in	15 ft	Off-White	Opaque	Plain	53TD70
	10 in	12 ft	Off-White	Opaque	Plain	53TD35
	12 in	18 in	Off-White	Opaque	Plain	53TA54
	12 in	54 ft	White	Opaque	Rubber Adhesive	4CCV4
	15 in	18 ft	Off-White	Opaque	Plain	53TD72
	18 in	4 ft	Off-White	Opaque	Plain	53TC63
	24 in	25 ft	Off-White	Opaque	Plain	53TE10
0.01 in	1 in	4 ½ ft	White	Opaque	Rubber Adhesive	4CCV7
	2 in	36 in	Off-White	Opaque	Plain	53TC29
	2 in	25 ft	Off-White	Opaque	Plain	53TE11
	3 in	24 in	Off-White	Opaque	Plain	53TA93
	3 in	5 ft	White	Opaque	Acrylic Adhesive	53RW21
	3 in	5 ft	Off-White	Opaque	Plain	53TD03
	6 in	12 in	Off-White	Opaque	Plain	53TA58
	6 in	36 in	Off-White	Opaque	Plain	53TC31
	6 in	4 ft	White	Opaque	Acrylic Adhesive	53RV85
	6 in	10 ft	Off-White	Opaque	Plain	53TD40
	10 in	24 ft	Off-White	Opaque	Plain	53TD43
	12 in	24 in	Off-White	Opaque	Plain	53TA61
	15 in	24 ft	White	Opaque	Acrylic Adhesive	53RW97
	18 in	36 in	Off-White	Opaque	Plain	53TC33
	24 in	36 in	Off-White	Opaque	Plain	53TC34
	24 in	4 ft	White	Opaque	Rubber Adhesive	53RY79
UHMW Polyethylene (Cont.)						
0.015 in	2 in	36 in	White	Opaque	Acrylic Adhesive	53RV53
	2 in	36 in	Off-White	Opaque	Plain	53TC35
	2 in	15 ft	White	Opaque	Rubber Adhesive	53RZ89
	3 in	24 in	White	Opaque	Acrylic Adhesive	53RV18
	3 in	36 in	Off-White	Opaque	Plain	53TC36
	3 in	5 ft	White	Opaque	Acrylic Adhesive	53RW27
	5 in	12 ft	Off-White	Opaque	Plain	53TD11
	6 in	4 ft	White	Opaque	Acrylic Adhesive	53RV91
	6 in	10 ft	Off-White	Opaque	Plain	53TD46
	6 in	15 ft	Off-White	Opaque	Plain	53TD82
	10 in	12 ft	White	Opaque	Acrylic Adhesive	53RW65
	10 in	18 ft	Off-White	Opaque	Plain	53TD48
	12 in	24 in	White	Opaque	Acrylic Adhesive	53RV20
	12 in	24 in	Off-White	Opaque	Plain	53TA67
	15 in	18 ft	Off-White	Opaque	Plain	53TD84
	15 in	24 ft	White	Opaque	Acrylic Adhesive	53RX04
	18 in	4 ft	Off-White	Opaque	Plain	53TC75
	18 in	25 ft	White	Opaque	Rubber Adhesive	53TA30
	24 in	36 in	Off-White	Opaque	Plain	53TC40
	24 in	25 ft	White	Opaque	Acrylic Adhesive	53RX40
	24 in	25 ft	Off-White	Opaque	Plain	53TE22
0.02 in	2 in	24 in	Off-White	Opaque	Plain	53TC05
	2 in	50 ft	White	Opaque	Plain	4CDF4
	3 in	10 ft	White	Opaque	Acrylic Adhesive	53RW69
	3 in	15 ft	Off-White	Opaque	Plain	53TD87
	4 in	50 ft	White	Opaque	Plain	4CDF5
	5 in	24 ft	Off-White	Opaque	Plain	53TD19
	6 in	36 in	White	Opaque	Acrylic Adhesive	53RV61
	6 in	15 ft	Off-White	Opaque	Plain	53TD88
	6 in	50 ft	White	Opaque	Plain	4CDF6
	10 in	12 ft	White	Opaque	Rubber Adhesive	53RZ62
	10 in	18 ft	Off-White	Opaque	Plain	53TD54
	12 in	18 in	Off-White	Opaque	Plain	53TA72
	12 in	4 ft	White	Opaque	Acrylic Adhesive	53RV98
	12 in	50 ft	White	Opaque	Plain	4CDF7
	18 in	25 ft	Off-White	Opaque	Plain	53TE27
	24 in	36 in	Off-White	Opaque	Plain	53TC46
	24 in	25 ft	White	Opaque	Acrylic Adhesive	53RX46
0.03 in	2 in	12 in	Off-White	Opaque	Plain	53TA74
	2 in	5 ft	Off-White	Opaque	Plain	53TD20
	3 in	15 ft	Off-White	Opaque	Plain	53TD93
	5 in	24 ft	Off-White	Opaque	Plain	53TD25
	6 in	24 in	Off-White	Opaque	Plain	53TC13
	6 in	15 ft	Off-White	Opaque	Plain	53TD94
	10 in	24 ft	Off-White	Opaque	Plain	53TD61
	12 in	24 in	Off-White	Opaque	Plain	53TA79
	15 in	18 ft	Off-White	Opaque	Plain	53TD96
	18 in	25 ft	Off-White	Opaque	Plain	53TE33
	24 in	36 in	Off-White	Opaque	Plain	53TC52
	24 in	25 ft	Off-White	Opaque	Plain	53TE34
0.031 in	2 in	4 ft	White	Opaque	Acrylic Adhesive	53RW02
	3 in	10 ft	White	Opaque	Acrylic Adhesive	53RW75
	5 in	18 ft	White	Opaque	Acrylic Adhesive	53RW42
	6 in	25 ft	White	Opaque	Acrylic Adhesive	53RX49
	6 in	50 ft	White	Opaque	Plain	4CDG2
	10 in	18 ft	White	Opaque	Acrylic Adhesive	53RW78
	12 in	24 in	White	Opaque	Acrylic Adhesive	53RU97
	12 in	50 ft	White	Opaque	Plain	4CDG3
	18 in	24 in	White	Opaque	Acrylic Adhesive	53RY24
	24 in	24 in	White	Opaque	Acrylic Adhesive	53RY25
0.04 in	12 in	50 ft	White	Opaque	Rubber Adhesive	4CCY5
0.05 in	1 in	50 ft	White	Opaque	Plain	4CDG9
	2 in	50 ft	White	Opaque	Plain	4CDH1
	12 in	50 ft	White	Opaque	Plain	4CDH4
	12 in	50 ft	White	Opaque	Rubber Adhesive	4CCZ3
0.062 in	2 in	50 ft	Black	Opaque	Rubber Adhesive	4CDE1
	6 in	50 ft	Black	Opaque	Rubber Adhesive	4CDE2
	6 in	50 ft	White	Opaque	Plain	4CDH8
	12 in	50 ft	Black	Opaque	Rubber Adhesive	4CDE3
0.08 in	1 in	50 ft	White	Opaque	Plain	4CDJ1
	4 in	50 ft	White	Opaque	Plain	4CDJ8
0.093 in	6 in	50 ft	Black	Opaque	Rubber Adhesive	4CDE6
	12 in	50 ft	Black	Opaque	Rubber Adhesive	4CDE7
0.125 in	1 in	50 ft	White	Opaque	Rubber Adhesive	4CDC9
	2 in	50 ft	White	Opaque	Rubber Adhesive	4CDD1

For more information on Plastics, see page 2208

Plastic Angles

- 90° Bend

Plastic Length	Leg Length	Plastic Thickness	Color	Plastic Clarity	Item No.
Polycarbonate					
1-ft, 2-ft, 3-ft, 6-ft	½" x ½"	0.05 in	Clear	Clear	**K6896**
	1" x 1"	0.05 in	Clear	Clear	**K6895**
	1½" x 1½"	0.05 in	Clear	Clear	**K6894**
PVC Type 1					
1-ft, 6-ft	2" x 2"	0.08 in, 0.125 in	Gray	Opaque	**K6902**
5-ft	¾" x 1½"	0.0625 in	Dark Gray	Opaque	**K6904**
	1" x 1"	0.125 in	Dark Gray	Opaque	**K6899**
	1¼" x 1¼"	0.1875 in	Dark Gray	Opaque	**K6898**
	1½" x 1½"	0.1875 in, 0.25 in	Dark Gray	Opaque	**K6897**
5-ft, 10-ft	2" x 2"	0.1875 in, 0.25 in	Dark Gray	Opaque	**K6902**
6-ft	¾" x 1½"	0.08 in	Gray	Opaque	**K6904**
	¾" x ¾"	0.08 in	Gray	Opaque	**K6906**
	¾" x 3"	0.125 in	Gray	Opaque	**K6905**
	3½" x 3½"	0.275 in	Gray	Opaque	**K6903**
UHMW Polyethylene					
10-ft	⅝" x 1½"	0.25 in	White	Opaque	**2NJD2**
	1½" x 1½"	0.25 in	White	Opaque	**2NJC7**
	2" x 2"	0.25 in	White	Opaque	**2NJC8**
	3" x 3"	0.5 in	White	Opaque	**2NJC9**
	3½" x 3½"	0.5 in	White	Opaque	**2NJD1**

Plastic Tubes

Outside Dia.	Wall Thickness	Inside Dia.	Plastic Length	Color	Plastic Clarity	Item No.
ABS Round Tubes						
¼", ⅝"	1/16"	⅛", ½"	3 ft, 1 ft	Beige	Opaque	**K7372**
½", ¾", 1¼"	⅛"	¼", ½", 1"	3 ft, 2 ft, 6 ft, 1 ft	Beige	Opaque	**K7374**
⅝"	3/16"	¼"	3 ft	Beige	Opaque	**K7375**
1", 2"	¼"	½", 1½"	6 ft	Beige	Opaque	**K7373**
Carbon Fiber Round Tubes						
⅛", 3/16", ¼", 5/16"	1/32"	1/16", ⅛", 3/16", ¼"	4 ft	Black	Opaque	**K7377**
⅜", ½", ⅝", ¾", ⅞", 1"	1/16"	¼", ⅜", ½", ⅝", ¾", ⅞"	4 ft, 1 ft, 3 ft, 6 ft	Black	Opaque	**K7376**
Cast Acrylic Round Tubes						
2¾", 3", 3½", 4", 4½", 5", 5½", 6", 7", 8", 12"	¼"	2¼", 2½", 3", 3½", 4", 4½", 5", 5½", 6½", 7½", 11½"	1 ft, 6 ft, 3 ft, 2 ft	Clear	Clear	**K7378**
PETG Round Tubes						
5/16", ⅜", ½", ⅝", ¾", ⅞", 1¼"	1/16"	3/16", ¼", ⅜", ½", ⅝", ¾", 1⅛"	3 ft, 2 ft, 6 ft	Clear	Clear	**K7379**
½", ⅝", ¾", ⅞", 1", 1¼", 1⅜", 1½"	⅛"	¼", ⅜", ½", ⅝", ¾", 1", 1⅛", 1¼"	1 ft, 6 ft, 2 ft, 3 ft	Clear	Clear	**K7380**
Polycarbonate Round Tubes						
⅜", ½", ¾", 1"	1/16"	¼", ⅜", ⅝", ⅞"	2 ft, 3 ft, 1 ft, 6 ft	Clear	Clear	**K7381**
⅝", 1", 1¼", 1½", 1¾", 2", 2¼", 2½", 2¾", 3", 3½", 4", 5", 6", 7", 8"	⅛"	½", ¾", 1", 1¼", 1½", 1¾", 2", 2¼", 2½", 2¾", 3¼", 3¾", 4¾", 5¾", 6¾", 7¾"	1 ft, 6 ft, 2 ft, 3 ft	Clear	Clear	**K7382**
PTFE Round Tubes						
⅜", ½", 1", 1¾"	1/16"	¼", ⅜", ⅞", 1⅝"	1 ft, 3 ft, 6 ft, 2 ft	White	Opaque	**K7383**
⅜", ¾", 13/16"	3/32"	3/16", 9/16", ⅝"	3 ft, 1 ft, 6 ft	White	Opaque	**K7389**
7/16"	1/32"	⅜"	2 ft	White	Opaque	**K7385**
½", ¾", 1½", 1¾"	⅛"	¼", ½", 1¼", 1½"	2 ft, 1 ft, 6 ft, 3 ft	White	Opaque	**K7387**
½", 11/16", 1 5/16", 1 15/16"	5/32"	3/16", ⅜", 1", 1⅝"	2 ft, 3 ft, 1 ft, 6 ft	White	Opaque	**K7391**
¾", 1⅜", 1 9/16"	3/16"	⅜", 1", 1 3/16"	2 ft, 1 ft, 6 ft	White	Opaque	**K7388**
1"	⅛"	¾"	3 ft	White	Opaque	**60TY21**
	7/32"	9/16"	6 ft	White	Opaque	**K7392**
1", 1¼", 1½", 1¾"	¼"	½", ¾", 1", 1¼"	1 ft, 2 ft, 6 ft, 3 ft	White	Opaque	**K7386**
1½", 1¾"	⅜"	¾", 1"	3 ft, 2 ft	White	Opaque	**K7390**
2"	½"	1"	1 ft	White	Opaque	**K7384**
PVC Round Tubes						
¼"	1/32"	3/16"	50 ft	Clear	Opaque	**K7394**
⅜", ½"	1/16"	¼", ⅜"	50 ft	Clear	Opaque	**K7393**
7/16"	3/32"	¼"	50 ft	Clear	Opaque	**K7398**
⅝"	3/16"	¼"	2 ft	Gray	Opaque	**K7402**
¾", ⅞", 1", 1⅛", 1¼", 1½"	¼"	¼", ⅜", ½", ⅝", ¾", 1"	3 ft, 2 ft, 6 ft, 1 ft	Gray	Opaque	**K7400**
13/16"	5/32"	½"	50 ft	Clear	Opaque	**K7399**
⅞", 1", 1⅜"	⅛"	⅝", ¾", 1⅛"	50 ft	Clear	Opaque	**K7396**
1½", 2½"	¼"	1", 2"	50 ft, 20 ft	Clear	Opaque	**K7395**
1⅝"	3/16"	1¼"	50 ft	Clear	Opaque	**K7397**
5"	½"	4"	10 ft	Clear	Opaque	**44ZT01**

Outside Dia.	Wall Thickness	Inside Dia.	Plastic Length	Color	Plastic Clarity	Item No.
UHMW-PE Round Tubes						
¾", 1⅜", 1⅞", 2", 2⅝", 2¾", 5½", 8⅝"	⅜"	⅜", ⅝", 1⅛", 1¼", 2¼", 2", 4¾", 7⅞"	3 ft, 6 ft, 10 ft, 5 ft, 1 ft	White	Opaque	**K7409**
⅞", 1", 1½", 2", 2¼", 2½", 3", 3½", 4", 4½", 5"	¼"	⅜", ½", 1", 1½", 1¾", 2", 2½", 3, 3½", 4", 4½"	5 ft, 6 ft, 10 ft, 3 ft, 1 ft	White	Opaque	**K7404**
⅞", 1¼", 1⅞", 2"	5/16"	¼", ⅝", 1¼", 1⅜"	3 ft, 10 ft, 6 ft	White	Opaque	**K7410**
1", 1¼", 2"	⅛"	¾", 1", 1¾"	3 ft, 5 ft	White	Opaque	**K7405**
1", 1⅜", 1⅝", 2¼", 3⅛"	3/16"	⅝", 1", 1¼", 1⅞", 2¾"	3 ft, 10 ft, 6 ft	White	Opaque	**K7407**
1½", 2", 2½", 3½", 4", 5"	½"	½", 1", 1½", 2", 2½", 3", 4"	3 ft, 10 ft, 5 ft, 6 ft	White	Opaque	**K7403**
1 63/64"	15/32"	1 3/64"	6 ft	White	Opaque	**K7406**
2½"	¾"	1"	5 ft	White	Opaque	**K7408**
5½"	9/16"	4⅜"	3 ft	White	Opaque	**K7411**

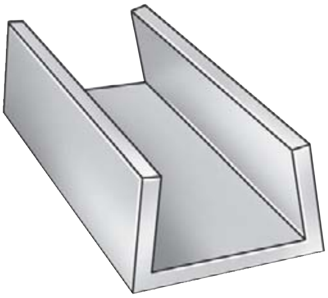
Wall Thickness	Outside H	Outside W	Plastic Length	Color	Plastic Clarity	Item No.
Polycarbonate Square Tubes						
1/16"	¾"	¾ in	1 ft, 2 ft, 3 ft, 6 ft	Clear	Clear	**K6858**
5/64"	2"	2 in	1 ft, 2 ft, 3 ft, 6 ft	Clear	Clear	**K6861**
PVC Rectangular Tubes						
5/64"	1"	2 in	1 ft, 2 ft, 3 ft, 6 ft	Gray	Opaque	**K6861**
3/32"	1⅜", 2", 2 9/32"	2 ¾ in, 3 11/32 in, 4 in, 3 ⅜ in	1 ft, 6 ft, 3 ft, 2 ft	Gray	Opaque	**K6860**
PVC Square Tubes						
1/16"	¾"	¾ in	1 ft, 2 ft, 3 ft, 6 ft	Gray	Opaque	**K6858**
5/64"	1", 1⅜", 2", 3"	1 in, 1 ⅜ in, 2 in, 3 in	1 ft, 2 ft, 3 ft, 6 ft	Gray	Opaque	**K6861**
⅛"	⅞"	⅞ in	1 ft, 2 ft, 3 ft, 6 ft	Gray	Opaque	**K6859**

For more information on Plastics, see page 2208

Plastic PTFE Cords

- White Color
- Opaque

Plastic Diameter	Plastic Length: 10 ft Item No.	Plastic Length: 25 ft Item No.	Plastic Length: 50 ft Item No.
Plastic Diameter Tolerance ±0.002 in			
0.028 in	30GA48	30GA61	30GA74
0.031 in	30GA49	30GA62	30GA75
0.035 in	30GA50	30GA63	30GA76
0.039 in	30GA51	30GA64	30GA77
0.047 in	30GA52	30GA65	30GA78
0.05 in	30GA53	30GA66	30GA79
0.055 in	30GA54	30GA67	30GA80
0.062 in	30GA55	30GA68	30GA81
0.07 in	30GA56	30GA69	30GA82
Plastic Diameter Tolerance ±0.003 in			
0.078 in	30GA57	30GA70	30GA83
0.094 in	30GA58	30GA71	30GA84
0.1 in	30GA59	30GA72	30GA85
0.125 in	30GA60	30GA73	30GA86



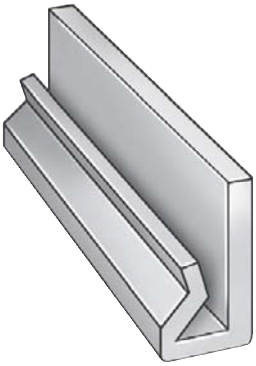
Plastic U-Shaped Channels

Plastic Length	Outside Base Width	Outside Leg Length	Inside Base Width	Inside Leg Length	Color	Plastic Clarity	Item No.
Polycarbonate							
1 ft	0.49 in	0.4 in	0.39 in	0.35 in	Clear	Clear	60DP50
	0.365 in	0.345 in	0.265 in	0.295 in	Clear	Clear	60DP49
	0.235 in	0.3 in	0.135 in	0.25 in	Clear	Clear	60DP48
2 ft	0.49 in	0.4 in	0.39 in	0.35 in	Clear	Clear	60DP47
	0.365 in	0.345 in	0.265 in	0.295 in	Clear	Clear	60DP46
	0.235 in	0.3 in	0.135 in	0.25 in	Clear	Clear	60DP45
3 ft	0.49 in	0.4 in	0.39 in	0.35 in	Clear	Clear	60DP44
	0.365 in	0.345 in	0.265 in	0.295 in	Clear	Clear	60DP43
	0.235 in	0.3 in	0.135 in	0.25 in	Clear	Clear	60DP42
6 ft	0.49 in	0.4 in	0.39 in	0.35 in	Clear	Clear	60DP41
	0.365 in	0.345 in	0.265 in	0.295 in	Clear	Clear	60DP40
	0.235 in	0.3 in	0.135 in	0.25 in	Clear	Clear	60DP39
PVC Type 1							
5 ft	3.54 in	0.781 in	—	—	Dark Gray	Opaque	1UNK1
	2.51 in	1.469 in	—	—	Dark Gray	Opaque	1UNJ9
	1.14 in	1.656 in	—	—	Dark Gray	Opaque	1UNJ7
	0.51 in	0.594 in	—	—	Dark Gray	Opaque	1UNJ3
UHMW Polyethylene							
10 ft	1.25 in	0.734 in	1 in	0.609 in	White	Opaque	2NJC6
	3 in	1 in	2.25 in	0.5 in	White	Opaque	2NJC5
	1 in	0.75 in	0.5 in	0.375 in	White	Opaque	2NJC4
	1.5 in	0.875 in	1 in	0.5 in	White	Opaque	2NJC3
	2 in	1 in	1.5 in	0.625 in	White	Opaque	2NJC2
	2.5 in	1 in	2 in	0.625 in	White	Opaque	2NJC1
	3 in	1 in	2.5 in	0.625 in	White	Opaque	2NJA9
	4.25 in	1.25 in	3.5 in	0.875 in	White	Opaque	2NJA8

Plastic Perforated Sheets

- Round hole shape

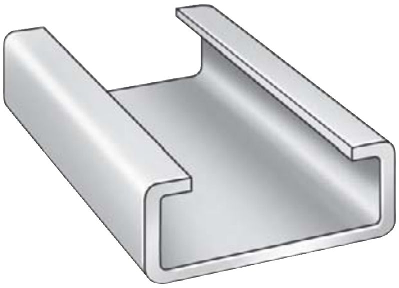
Hole Pattern	Hole Diameter	Plastic Thickness	Plastic Width	Plastic Length	Item No.
Polypropylene					
Staggered	⅛ in	0.063 in	48 in	32 in	5PCY1
		0.063 in	48 in	96 in	5PCY4
		0.125 in	48 in	32 in	5PCX3
		0.125 in	48 in	96 in	5PCX9
	3/16 in	0.125 in	48 in	32 in	5PCX2
		0.125 in	48 in	96 in	5PCX8
Straight	¼ in	0.125 in	48 in	32 in	5PCW9
		0.25 in	48 in	32 in	5PCW5
		0.25 in	48 in	96 in	5PCW7
PVC Type 1					
Staggered	½ in	0.25 in	48 in	32 in	5PCY9
	⅛ in	0.063 in	48 in	96 in	5PDA2
		0.125 in	48 in	96 in	5PCZ8



Plastic J Legs

- UHMW Polyethylene

Plastic Width	Plastic Length	Rail Gauge	Plastic Thickness	Item No.
1 in	10 ft	12	¼ in	2NJE1
3 in				2NJE2



Plastic C Sections

- ⅛" wall thickness
- 10 ft. length
- UHMW Polyethylene White

Inside Base Width	Inside Leg Length	Bottom Opening Width	Item No.
1 in	¼ in	⅝ in	2NJE3
1 in	1 in	½ in	2NJE6
1 ½ in	½ in	1 in	2NJE5
2 in	¼ in	1 ⅜ in	2NJE4
2 in	1 ½ in	1 ½ in	2NJE7

Plastic Balls

Plastic Diameter	Color	Plastic Hardness	Item No.
Acetal			
¾"	White	Rockwell M90	497Y76
1"	White	Rockwell M90	497Y77
1½"	White	Rockwell M90	497Y78
Nylon			
⅛"	Off-White	Rockwell M85	497Y79
¼"	Off-White	Rockwell M85	497Y81
1"	Off-White	Rockwell M85	497Y85
Polypropylene			
⅛"	White	Rockwell M85	497Y86
¼"	White	Rockwell M85	497Y87
⅜"	White	Rockwell M85	497Y88
½"	White	Rockwell M85	497Y89
¾"	White	Rockwell M85	497Y90
1"	White	Rockwell M85	497Y91

Felt Information

WOOL FELT

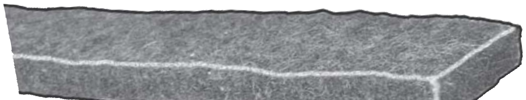
Naturally flame-resistant, Type 1 wool felts will still burn when exposed to an open flame, although they will self-extinguish once the flame is removed. Material is naturally abrasion- and vibration-resistant.

SYNTHETIC POLYESTER FELT

Economical synthetic felt. Ideal as a replacement for wool; however, polyester has lower sound-deadening, compression recovery, and wicking properties than wool.

FELT COMPARISON CHART

Material	Wool Fiber Content (%)	Durometer	Hardness	Tensile Strength (psi)	Resistance (psi)	Compression Recovery (%)	Max. Temp (°F)	Abrasion Resistance	Vibration Absorption	Acid Resistance	Alkalai Resistance (Dilute)	Solvent Resistance	Color
Wool Felt													
Grade F1	95	30 to 40A	Extra-Firm	500	33	99	200	Excellent	High	Good	Fair	Excellent	Off-White
Grade F3	85	30 to 40A	Firm	400	22	99	200	Excellent	High	Good	Fair	Excellent	Gray
Grade F5	95	20 to 30A	Medium	400	18	99	200	Good	Medium	Good	Fair	Excellent	Off-White
Grade F7	80	20 to 30A	Medium	250	12	99	200	Good	Medium	Good	Fair	Excellent	Gray
Grade F10	95	15 to 25A	Soft	225	8	99	200	Fair	Low	Good	Fair	Excellent	Off-White
Grade F13	75	15 to 25A	Soft	225	2	99	200	Fair	Low	Good	Fair	Excellent	Gray
Grade F26N	45	5 to 15A	Soft	75	2	99	200	Poor	Very Low	Good	Fair	Excellent	Gray
Synthetic Polyester Felt													
Polyester	—	75 to 85A	Medium	500	—	85	300	Excellent	Ultra-High	Good	Fair	Excellent	White



Felt Strips and Sheets

Thickness	L	W	Density (lb./sq. yd.)	PLAIN BACKING TYPE Item No.	ADHESIVE BACKING TYPE Item No.
Wool Felt Strips					
SOFT HARDNESS, F13 GRADE					
⅛ in	10 ft	1 in	1	2FKD8	2FKX1
⅛ in	10 ft	1 ½ in	1	2FKH2	2FLA4
⅛ in	10 ft	2 in	1	2FKL5	2FLD7
3⁄16 in	10 ft	1 in	1.5	—	2FKX3
¼ in	10 ft	1 in	2	2FKE3	2FKX5
¼ in	10 ft	1 ½ in	2	2FKH6	2FLA8
¼ in	10 ft	2 in	2	2FKL9	2HUN5
½ in	10 ft	1 in	4.25	2FKE7	2FKX9
½ in	10 ft	1 ½ in	4.25	2FKJ1	2FLB3
½ in	10 ft	2 in	4.25	2FKN4	2HUN7
SOFT HARDNESS, F26 GRADE					
⅛ in	10 ft	2 in	0.875	2HUV2	2HUY3
¼ in	10 ft	2 in	1.625	2HUV3	2HUY4
½ in	10 ft	2 in	3.625	2HUV5	2HUY6
MEDIUM HARDNESS, F5 GRADE					
⅛ in	10 ft	1 ½ in	1.5	2FKG6	2FKZ6
¼ in	10 ft	1 ½ in	3	2FKH1	2FLA1
¼ in	10 ft	2 in	3	2FKL2	—
½ in	10 ft	1 ½ in	6	2FKH5	2FLA5
MEDIUM HARDNESS, F7 GRADE					
⅛ in	10 ft	1 in	1.5	2FHV1	2FJP6
⅛ in	10 ft	1 ½ in	1.5	2FHY4	2FJU9
⅛ in	10 ft	2 in	1.5	—	2FJY3
¼ in	10 ft	1 in	3	2FHV5	2FJR1
¼ in	10 ft	1 ½ in	3	2FHY8	2FJV4
¼ in	10 ft	2 in	3	2FJC2	2FJY7
⅜ in	10 ft	1 ½ in	4.5	—	2FJV6
½ in	10 ft	1 in	6	2FHV9	2FJR5
½ in	10 ft	1 ½ in	6	2FHZ3	2FJV8
½ in	10 ft	2 in	6	2FJC6	—
FIRM HARDNESS, F3 GRADE					
⅛ in	10 ft	1 in	2	2FHR9	2FJH2
⅛ in	10 ft	1 ½ in	2	2FHW3	2FJL5
⅛ in	10 ft	2 in	2	—	2FJR8
¼ in	10 ft	1 in	4	2FHT4	2FJH6
¼ in	10 ft	1 ½ in	4	2FHW7	2FJL9
¼ in	10 ft	2 in	4	2FJA1	2FJT3
⅜ in	10 ft	2 in	6	2FJA3	2FJT5
½ in	10 ft	1 in	8	—	2FJJ1
½ in	10 ft	2 in	8	2FJA5	2FJT7
EXTRA FIRM HARDNESS, F1 GRADE					
⅜ in	12 in	1 in	6	2FGY2	—
Wool Felt Sheets					
SOFT HARDNESS, F10 GRADE					
⅜ in	12 in	12 in	3	2FKA1	—
SOFT HARDNESS, F13 GRADE					
1 in	6 ft	36 in	8	3HAW7	—
SOFT HARDNESS, F26 GRADE					
⅛ in	12 in	12 in	0.875	2HUN8	2HUV6
¼ in	12 in	12 in	1.625	2HUP1	2HUV7
½ in	12 in	12 in	3.625	2HUP3	2HUV9
1 in	6 ft	36 in	7.25	3HAX8	—
MEDIUM HARDNESS, F5 GRADE					
⅛ in	12 in	12 in	1.5	2FJV1	2FKL8
½ in	12 in	12 in	6	2FJV9	2FKN5
MEDIUM HARDNESS, F7 GRADE					
⅛ in	6 ft	36 in	1.5	3HAU6	—
⅜ in	12 in	12 in	4.5	2FHG3	2FJD3
½ in	12 in	12 in	6	2FHG5	2FJD5
¾ in	12 in	12 in	9	2FHG7	—
FIRM HARDNESS, F3 GRADE					
⅛ in	12 in	12 in	2	2FHF7	2FJA7
¼ in	12 in	12 in	4	2FHG2	2FJA9
½ in	5 ft	36 in	8	3EDT4	—
½ in	12 in	12 in	8	2FHG6	2FJB4
EXTRA FIRM HARDNESS, F1 GRADE					
1⁄16 in	12 in	12 in	1	2DAH6	2FGW4
⅛ in	12 in	12 in	2	2DAH7	2FGW5
¼ in	5 ft	12 in	4	2FGW1	—
¼ in	12 in	12 in	4	2DAH9	2FGW7
½ in	5 ft	12 in	8	2FGW3	—
½ in	5 ft	36 in	8	3EDR8	—
½ in	12 in	12 in	8	2DAJ2	406F90
¾ in	12 in	12 in	12	2DAJ3	—
1 in	12 in	12 in	16	2DAJ4	—
Synthetic Polyester Felt Strips					
MEDIUM HARDNESS					
⅛ in	10 ft	1 in	1.125	2HVB2	2HVE5
⅛ in	10 ft	2 in	1.125	2HVC5	2HVF5
¼ in	10 ft	1 in	1.5	2HVB3	2HVE6
¼ in	10 ft	2 in	1.5	2HVC6	2HVF6
½ in	10 ft	1 in	3.125	—	2HVE7
½ in	10 ft	2 in	3.125	2HVC8	2HVF7
Synthetic Polyester Felt Sheets					
MEDIUM HARDNESS					
⅛ in	6 ft	5 ft	1.125	2HUZ4	2HVD3
¼ in	6 ft	5 ft	1.5	2HUZ5	2HVD4
¼ in	10 ft	6 ft	1.5	—	2HVD7
⅜ in	6 ft	5 ft	2.25	2HUZ6	—
⅜ in	10 ft	6 ft	2.25	2HVA1	—
½ in	6 ft	5 ft	3.125	2HUZ7	2HVD5

MJ May MATERIAL SPECIALISTS INC.

Burlap Fabric

Woven from natural jute fibers, this coarse fabric is 100% biodegradable and recyclable. Burlap has exceptional tensile strength and tear resistance. Large weave pattern results in exceptional breathability. Used in multiple industries including textile, construction, agriculture, and packaging.

Thickness	W	L	Item No.
6.75 oz Fabric Weight			
3⁄32 in	30 in	50 ft	48YG47
	40 in	50 ft	48YG53
	40 in	100 ft	48YG49
	40 in	150 ft	48YG50
9 oz Fabric Weight			
3⁄32 in	30 in	100 ft	48YG67
	40 in	150 ft	48YG74

Cork Roll & Sheet Stock

Thickness	W	Color	L	Item No.	Pkg. Qty.
Cork, Roll					
BB13 Grade					
¼"	4 ft	Tan	50 ft	425V98	1
¼"	39 in	Black	32 ft	49CE54	1
¼"	39 in	Blue	32 ft	49CE55	1
¼"	39 in	Red	32 ft	49CE57	1
¼"	39 in	Tan	32 ft	49CE56	1
¼"	39 in	White	32 ft	49CE58	1
2.5-mm	4 ft	Tan	25 ft	4NLY2	1
3-mm	4 ft	Tan	20 ft	4NLY3	1
5.5-mm	4 ft	Tan	8 ft	4NLY5	1
5-mm	4 ft	Tan	20 ft	4NLY4	1
BB14 Grade					
1⁄32"	4 ft	Tan	656 ft	4NLY6	1
¼"	4 ft	Tan	98 ft	4NLZ1	1
¼"	24 in	Tan	87 ft	4NLY9	1
1.2-mm	4 ft	Tan	545 ft	4NLY7	1
1.5-mm	4 ft	Tan	25 ft	4NLY1	1
1.5-mm	4 ft	Tan	437 ft	4NLY8	1
FG170 Grade					
⅛"	4 ft	Tan	8 ft	48GC68	1
¼"	4 ft	Tan	90 ft	48GC60	1
QuietCork Grade					
¼"	4 ft	Tan	50 ft	4NLZ6	1
2.5-mm	4 ft	Tan	105 ft	4NLZ2	1
3-mm	4 ft	Tan	88 ft	4NLZ3	1
4-mm	4 ft	Tan	66 ft	4NLZ4	1
5-mm	4 ft	Tan	52 ft	4NLZ5	1
Cork, Sheet					
BB13 Grade					
3⁄16"	12 in	Tan	12 in	49CE61	4
⅜"	12 in	Dark Brown	12 in	49CE62	4
½"	12 in	Corkstone	24 in	49CE67	5
½"	12 in	Dark Brown	36 in	4NLZ7	1
½"	12 in	Desert	24 in	49CE63	5
½"	12 in	Harmony	24 in	49CE64	5
½"	12 in	Lisbon Country	24 in	49CE65	5
½"	12 in	Midnight	24 in	49CE66	5
½"	24 in	Tan	36 in	425V99	25
1"	12 in	Dark Brown	36 in	4NLZ8	1
2"	12 in	Dark Brown	36 in	4NLZ9	1
CR117 Grade					
0.8-mm	24 in	Tan	36 in	4NMG1	1
1⁄16"	24 in	Tan	36 in	4NMF9	1
1⁄16"	24 in	Tan	36 in	49CE60	2
⅛"	24 in	Tan	36 in	4NMG2	1
¼"	24 in	Tan	36 in	4NMG4	1
5⁄16"	24 in	Tan	36 in	4NMG5	1
½"	4 ft	Tan	6 ft	4NMH2	5
½"	4 ft	Tan	8 ft	4NMH1	5
½"	24 in	Tan	36 in	4NMG6	1
1.5-mm	24 in	Tan	36 in	49CE68	5
3-mm	24 in	Tan	36 in	49CE69	5
QuietCork Grade					
2.5-mm	36 in	Tan	24 in	4NLW4	1
4-mm	36 in	Tan	24 in	4NLW6	1

Multi-Purpose 27
6KWY1

FoamFast 74
3MA18

Hi-Tack 76
3MA22

Super 77™
3MA23

Hi-Strength 90
3MA16

Adhesive Remover
3KB83

Spray Adhesives

3M

Heavy-Duty 20 and Multipurpose 27—Fast-tack sprays cover a wide variety of substrates.

Pressure Sensitive 72—Industrial-grade formula is permanently tacky and repositionable. Can be used as pipe insulation lap adhesive.

Foam Fast 74—Features high coverage, soft bond lines, and immediate bonds.

Hi-Tack 76—High tack for 1-surface bonding.

Super 77 Multipurpose—High-tack, fast-drying spray bonds quickly. Low soak-in for long-lasting bond.

Insulation 78—Foam adhesive bonds polystyrene with no surface degradation.

Rubber and Vinyl 80—Neoprene-based adhesive is plasticizer-resistant.

Hi-Strength 90—Creates a high-strength bond with excellent moisture resistance. Features variable-width lace spray pattern.

Shipping Mate Case Sealing—Reseals cartons which come unglued or have to be opened and resealed. Holding strength in 10 sec. with carton-tearing strength in 5 min. Nonmisting, precise spray control.

Dry Layup Adhesive—This sprayable, synthetic elastomer-based adhesive is designed to reduce the amount of time required for dry layup of fiberglass.

Adhesive Remover, Citrus-Based—Leaves no residue and can replace mineral spirits, acetone, and other organic solvents for general cleaning.

CRC

Spray Adhesive—General-purpose, quick tack adhesive is ideal for labeling boxes and machinery, sealing packages for shipment, hanging insulation, repairing furniture, and displaying materials.

LOCTITE

Maximum Strength Headliner—Water-resistant aerosol formula is effective in contact with automotive fluids except gasoline. Sprays on clear. Air dries in 5 min.

SPRAYON

General Purpose and SP900 Heavy-Duty—Provide bonding for woodworking, installing insulation, and product line work. Dry quickly. General Purpose is foam-safe; delivered in a controlled mist spray pattern. SP900 Heavy-Duty forms permanent bonds; controlled lace spray pattern. VOC and MIR compliant.

GORILLA

Heavy-duty, multipurpose, and easy-to-use adhesive forms a clear, permanent bond that is moisture resistant, photo safe, and can be used on projects both indoors and out. Wide pad nozzle and controlled, fine mist spray allow even application.

Description	Bonds Substrates	VOC Levels Meet SCAQMD Requirements	Temp. Range (F)	Size	Item No.
3M					
Heavy Duty 20	Laminates, Metals, Plastics, Rubber, Wood	No	Up to 210°	20 oz.	**6KWX9**
Multi-Purpose #27	Paper, Cardboard, Fabrics, Soft Foams	No	Up to 140°	20 oz.	**6KWY1**
Pressure Sensitive 72	Carpet Tiles, Cement Walls, Foam, Pool Liners, Polyethylene and Polypropylene	No	0° to 120°	24 oz.	**3KB82**
FoamFast 74	Flexible and Rigid Foam, Upholstery Foam, Plastics (Latex, Urethane), Fabric, Felt, Cork	No	0° to 120°	24 oz.	**3MA18**
		No	-30° to 200°	24 oz.	**15E722**
Hi-Tack 76	Cardboard, Cork, Fabrics, Felt, Foils, Glass, Metal, Plastics, Rubber, Vinyl, Wood	No	0° to 160°	24 oz.	**3MA22**
Super 77™	Cardboard, Carpet Tiles, Drywall Corner Beads, Fabrics, Films, Foam, Foils, Insulation, Metal, Paper, Plastics, Wood	No	0° to 110°	16.75 oz.	**3MA23**
		No	-30° to 200°	18 oz.	**15E719**
	EPDM Rubber, Fabric, Felt, Cork and Fibrous Glass, Flexible Foam (Latex, Urethane), Glass and Ceramics, Leather, Metal, Paper and Cardboard, Plastics (ABS, PVC, Acrylic), Plastics (Flexible Vinyl), Plastics (High Performance Nylon), Plastics (Polyolefin and Thermoplastic Elastomers), Rigid Foam (Urethane), Rubber (Except EPDM), Wood and Hardboard	No	0° to 150°	20 oz.	**400G22**
Insulation 78	Wood, Metal, Glass, Ceramics, Leather, Felt, Fabric, Cardboard, Insulation, Paper	No	0° to 140°	24 oz.	**3MA19**
Rubber and Vinyl 80	Laminates, Plastics, Most Rubber and Supported Vinyl, Leather, Wood	No	0° to 200°	24 oz.	**3MA20**
Hi-Strength 90	Kick Plates, Laminates, Polyethylene and Polypropylene, Wood, Metal, Glass, Ceramics, Leather, Felt, Fabric	No	0° to 160°	24 oz.	**3MA16**
		No	-30° to 200°	24 oz.	**15E720**
		No	—	460.8 oz.	**29UJ17**
	EPDM Rubber, Fabric, Felt, Cork and Fibrous Glass, Flexible Foam (Latex, Urethane), Glass and Ceramics, Leather, Metal, Paper and Cardboard, Plastics (ABS, PVC, Acrylic), Plastics (Flexible Vinyl), Plastics (High Performance Nylon), Plastics (Polyolefin and Thermoplastic Elastomers), Rigid Foam (Urethane), Rubber (Except EPDM), Wood and Hardboard	No	0° to 122°	20 oz.	**400G24**
Shipping Mate Case Sealing™	Cardboard and Corrugated Cartons	No	0° to 160°	24 oz.	**3MA21**
Dry Layup Adhesive	Glass, Fabrics, And Roving	No	0° to 150°	24 oz.	**3RAL5**
Adhesive Remover, Citrus-Based	—	No	—	18.50 oz.	**3KB83**
CRC					
Spray Adhesive	Foam, Foils, Plastics, Papers, Cardboard And Cloths	No	122°	24 oz.	**13P445**
Loctite					
Maximum Strength Headliner Adhesive	Foam, Carpet, Fabrics, Plastics, Rubber	No	0° to 170°	16.75 oz.	**29UJ66**
Sprayon					
General Purpose	Cardboard, Carpets, Cartons, Cloth, Fabric, Fiberglass, Foil, Felt, Lighweight Foams, Plastics, Paper, Metal, Wood	Meets SCAQMD Requirements	-20° to 170°	16.75 oz.	**406R82**
SP900 Heavy-Duty	Laminates, Plastics, Glass, Cardboard, Ceramics, Metal, Particle Board, Paper, Wood	Meets SCAQMD Requirements	-20° to 170°	16.25 oz.	**406R81**
Gorilla					
Heavy-Duty	Wood, Metal, Fabric, Foam, Most Plastics, Paper, Glass, Leather	Meets SCAQMD Requirements	32° to 120°	14 oz.	**453U46**

Epoxy Adhesives

Use epoxy on a wide range of formulations to join construction elements together and form a strong bond. These adhesives protect underlying surfaces from dirt and moisture.They are widely used due to their resistance to chemicals and environments, their high strength, and their ability to resist deformation under sustained load.

3M Scotch-Weld—All DP series adhere to metal and plastic. DP110 also bonds to rubber. DP420 also adheres to ceramic, glass, and wood. DP460 is also for use with ceramic and wood.

Devcon—All bond to metal, glass, ceramic, concrete, and wood.

Gorilla Glue—For use on ceramic, metal, and wood.

Loctite—All Hysol Series are for use on metal and plastic. E-00CL, E-00NS, E-20HP, E-30CL, and E-90FL can also bond to ceramics and glass. E-60NC are for use with electronics. Fixmaster Fast Cure Epoxy bonds to metal, ceramic, concrete, wood, glass, and plastic. 4KL23 and 3KE55 include 10 premeasured cups each.

J-B Weld—All bond to metal and plastic. Weld and Professional Series also adhere to wood. Kwik Weld also bonds to fiberglass. Use Marine Weld for ceramic, fiberglass, glass, masonry, and wood.

Super Glue—Quick Setting Metal is for use on aluminum, copper, stainless steel, brass, iron, and steel. Plastic Fusion is for use on plastic, rubber, metal, concrete, and porcelain. All other epoxies are used for glass, metal, wood, rubber, and plastic.

Vibra-Tite—All adhere to ceramic, metal, and wood.

DP100
489J86

5-Minute Epoxy
5A462

Epoxy Adhesive
4YKT2

Fixmaster
1YDZ8

J-B Weld
2UV83

Quick Setting
1FBG6

Description	Application	Container Type	Size	Color	Work Life	Functional Cure	Full Cure	Mixing Ratio	Shear Strength (psi)	Epoxy Max. Temp Range	Item No.
3M											
DP100	Bond, Fill, Seal	Dual-Cartridge	1.64 oz	Clear	—	20 min	48 hr	1:1	1,500	300°F and Above	**489J86**
DP100 Plus		Dual-Cartridge	1.64 oz	Clear	4 min	20 min	48 hr	1:1	1,500	300°F and Above	**489J87**
DP105	Bonding	Dual-Cartridge	1.64 oz	Clear	5 min	20 min	48 hr	1:1	2,000	200° to 249°F	**489J90**
DP110		Dual-Cartridge	1.64 oz	Gray	10 min	20 min	48 hr	1:1	3,500	200° to 249°F	**489J91**
DP125		Dual-Cartridge	1.64 oz	Gray	25 min	2 hr 30 min	7 day	1:1	2,500	300°F and Above	**489J93**
DP190		Dual-Cartridge	1.64 oz	Gray	—	10 hr	14 day	1:1	2,500	200° to 249°F	**489J94**
DP420	For The Structural Bonding	Dual-Cartridge	1.69 oz	Off-White	20 min	2 hr	24 hr	2:1	4,500	200° to 249°F	**489J98**
		Dual-Cartridge	1.69 oz	Black	20 min	2 hr	24 hr	2:1	4,500	200° to 249°F	**489J97**
DP460	Bonding	Dual-Cartridge	1.69 oz	Off-White	1 hr	4 hr	48 hr	2:1	4,650	200° to 249°F	**489J99**
DP460NS		Dual-Cartridge	1.64 oz	Off-White	1 hr	4 hr	48 hr	2:1	4,650	200° to 249°F	**489K01**
Devcon											
5-Minute® Epoxy	For Fast Curing and General Purpose, Rigid Bond in 5 min	Syringe	0.85 oz	Amber	6 min	45 min to 1 hr	12 hr	1:1	1,900	200° to 249°F	**5A462**
	For Rapid Curing and General Purpose, Rigid Bond in 5 min	Dual-Cartridge	1.69 oz	Off-White	3 min	45 min to 1 hr	12 hr	1:1	1,900	200° to 249°F	**4TT42**
5-Minute® Epoxy Gel	For all Metal Bonding that Requires Fast Curing and Greater Gap Filling Capabilities, Disappearing Blue Coloring Tells You When the Product Is Thoroughly Mixed for Easy Use	Syringe	25 mL	Gray	7 min	1 hr 30 min	12 hr	1:1	2,500	—	**5E156**
	For all Metal Bonding that Requires Fast Curing and Greater Gap Filling Capabilities	Dual-Cartridge	50 mL	—	4 min	1 hr 30 min	48 hr	1:1	2,500	—	**4TT41**
2-Ton® Clear Epoxy	—	Syringe	25 mL	—	8 to12 min	2 hr	16 hr	1:1	2,250	—	**5E157**
		Dual-Cartridge	50 mL	—	8 to 12 min	2 hr	16 hr	1:1	2,250	—	**4TT40**
Gorilla											
Epoxy Adhesive	Repairing and Bonding For Home, Farm, Office and Marine	Syringe	0.85 oz	Clear	5 min	1 hr 30 min	24 hr	1:1	2,600	200° to 249°F	**4YKT2**
Loctite											
Hysol E-00CL™	—	Dual-Cartridge	1.69 oz	Clear	3.5 min	15 min	24 hr	1:1	2,160	300°F and Above	**4UK08**
Hysol E-00NS™		Dual-Cartridge	1.69 oz	Clear	3 min	15 min	24 hr	1:1	1,600	199°F and Below	**4UK11**
Hysol E-05CL™	Fast Fixture, High Peel, Low Odor	Dual-Cartridge	1.69 oz	Clear	3 min	30 min	24 hr	1:1	1,430	250° to 299°F	**2VRH6**
Hysol E-20HP™	—	Dual-Cartridge	1.69 oz	Tan	20 min	2 hr	24 hr	2:1	3,270	250° to 299°F	**4UK09**
Hysol E-30CL™	Chemical Resistant, Impact Resistant, Low Viscosity	Dual-Cartridge	1.69 oz	Clear	30 min	3 hr	24 hr	2:1	3,100	250° to 299°F	**2VRH9**
Hysol E-60NC™	Non-Conductive	Dual-Cartridge	1.69 oz	Black	1 hr	3 hr	24 hr	1:1	2,630	250° to 299°F	**2VRJ1**
		Dual-Cartridge	6.76 oz	Black	1 hr	3 hr	24 hr	1:1	2,630	250° to 299°F	**2VRJ2**
Hysol E-90FL™	—	Dual-Cartridge	1.69 oz	Gray	90 min	3 hr	24 hr	1:1	810	200° to 249°F	**4UK10**
Hysol E-120HP™		Dual-Cartridge	1.69 oz	Amber	120 min	3 hr	24 hr	2:1	4,300	300°F and Above	**4UK12**
Hysol 608™		Dual-Cartridge	1.69 oz	Clear	5 min	15 min	24 hr	1:1	2,980	199°F and Below	**2VRH7**
	Fast Fixture, High Peel, Low Odor	Tube	2.8 oz	Clear	5 min	15 min	24 hr	1:1	2,980	199°F and Below	**2VRH8**
Hysol Potting Compound	Bonding, Encapsulating, Potting	Dual-Cartridge	13.53 oz	Black	1 hr	3 hr	24 hr	1:1	2,630	250° to 299°F	**19TT87**
Fixmaster® Fast Cure	Plumbing Repairs	Stick	4.0 oz	White	15 min	30 min	30 min	1:1	900	300°F and Above	**1YDZ8**
	For Bonding Glass, Rubber and Metal	Can	40 g	Gray	5 min	10 min	12 hr	1:1	2,000	199°F and Below	**4KL23**
		Can	10.0 oz	Gray	5 min	10 min	12 hr	1:1	2,000	199°F and Below	**3KE55**
	Bonds And Repairs Cracks And Worn Surfaces, Fast Cure, Multipurpose	Syringe	1.0 oz	Clear	8 min	—	1 hr	1:1	2,300	300°F and Above	**5YGU7**
J-B Weld											
J-B Weld	For Repairing and Bonding Heavy Duty, Automotive, Home, Industrial, Farm and Marine Situations	Tube	1.0 oz	Gray	30 min	6 hr	24 hr	1:1	3,960	300°F and Above	**2UV83**
J-B Weld Professional		Tube	5.0 oz	Gray	30 min	6 hr	24 hr	1:1	5,020 psi	300°F and Above	**2UV88**
J-B Kwik Weld	For Repairing Hobbies and Crafts, Hot and Cold Pipes, Furnaces, Hot Water Heaters, Disposals, Toilets, Appliances, Tools, Yard Equipment and Electrical Plugs	Tube	1.0 oz	Gray	2 min	3 hr	6 hr	1:1	2,424	300°F and Above	**2UV85**
MarineWeld	For Repairing And Bonding Marine Applications	Tube	1.0 oz	Gray	20 min	6 hr	24 hr	1:1	3,960	300°F and Above	**5DFV0**
Quick Setting, Steel Reinforced Epoxy	Apply With Appropriate Tool In An Even Coat	Tube	5.0 oz	Gray	4 min	6 hr	24 hr	1:1	2,424	300°F and Above	**14G802**
Super Glue											
Quick Setting	Fast Bonding And Repairing, Durable And Sandable In Final Cure	Tube	0.5 oz	Yellow	4 to 6 min	30 min	24 hr	1:1	1,200	199°F and Below	**3EHR5**
	Repairing and Bonding For Home, Farm, Office and Marine	Syringe	1.0 oz	Yellow	4 to 6 min	30 min	24 hr	1:1	1,200	199°F and Below	**1FBG6**
Quick Setting Metal	Industrial Strength, Repair and Bonding of Metals	Syringe	1.0 oz	Gray	4 to 6 min	1 hr	24 hr	1:1	2,500	300°F and Above	**1FBG9**
Instant Setting	90 Second Setting For Fast Bonding	Syringe	1.0 oz	Yellow	90 sec	10 min	24 hr	1:1	2,000	199°F and Below	**3EHR4**
Single Use, Instant Setting Epoxy	All Purpose, Small Jobs	Tube	3 g	Yellow	90 sec	10 min	24 hr	1:1	2,000	199°F and Below	**6KWD9**
Super Strength	Industrial Strength Bonding and Repair, For The Home, Office, Farm and Marine	Syringe	1.0 oz	Yellow	30 min	7 hr	24 hr	1:1	2,000	200° to 249°F	**1FBG8**
Plastic Fusion	Repairing of Toys, Plastic Fixtures, Jewelry and Taxidermy	Syringe	1.0 oz	Yellow	5 to 10 min	5 min	24 hr	1:1	4,000	250° to 299°F	**1FBG7**
Vibra-Tite											
905 Quick Cure	For Bushing Assembly in Cars, Fiberglass Decks in Boats, Relays and Controls in Electronic Equipment, Lawn Sprinklers, Office Partitions, Pump Casting Components, Golf Clubs, Home Furniture and Surgical Instruments	Dual-Cartridge	1.69 oz	Clear	6 min	6 min	24 hr	1:1	1,000	250° to 299°F	**49CF04**

Plastic Welder
5E158

Depend 330
4KL14

Devcon LOCTITE 3M

Acrylic Structural Adhesives

These durable acrylic adhesives combine the benefits of fast process speeds with tough, durable, and environmentally resistant bond strengths. They perform well against the elements because they are waterproof and stand up to UV exposure. Feature a higher tolerance for unprepared surfaces.

DEVCON

Plastic Welder—Bonds most plastics, bare metals, and dissimilar substrates.

LOCTITE

Loctite 324/325/326—Bond to alnico, ferrite, and neodymium metals.

Depend 330—Bond to ceramic metal, plastic, and wood.

3M

Bonds to low surface energy plastics (LSE), thermoplastics, composites, and metals.

Description	Type	Container Type	Size	Color	Work Life	Functional Cure	Full Cure	Shear Strength (psi)	Item No.
Devcon									
Plastic Welder™	Non-Sag Adhesive For Vertical Applications To Metal, Glass, Phenolic, Ceramic	Syringe	25 mL	—	6 min	15 min	24 hr	3,500	**5E158**
Loctite									
Loctite® 324™	Larger Gap Applications, Impact Resistant	Bottle	1.69 oz	Amber	5 min	40 min	24 hr	2,700	**2LTC7**
Loctite® 325™	High Temp., Chemical Resistant	Bottle	1.69 oz	Amber	5 min	5 min	24 hr	1,600	**2LTC8**
Loctite® 326™	High Strength, Fast Fixture and Cure, Solvent Resistant	Bottle	1.69 oz	Amber	5 min	10 min	24 hr	2,200	**2LTC9**
Depend® 330™	No-Mix Adhesive Kit	Syringe	0.85 oz	Yellow	5 min	5 min	24 hr	3,300	**4KL14**
		Tube	6.76 oz	Yellow	5 min	5 min	24 hr	3,300	**4KL15**
3M									
DP8005	Medium Viscosity	Dual-Cartridge	1.52 oz	Black	3 min	3 hr	24 hr	2,000	**49Z641**

1099 Scotch-Weld
3XH42

PR100
400G26

3M

Plastic Adhesives

Plastic adhesives are resistant to weathering, oil, water, and plasticizer migration. They create a permanent bond. Fiberglass-reinforced polyester is ideal for long-lasting repairs.

1099 Scotch-Weld—Bonds vinyl extrusions and sheeting, fabrics, foams, and many plastics.

4475 Industrial Plastic Adhesive—Bonds many ceramics, glass, leather, cloth, and vinyls.

PR100—Precision nozzle. Recommended for gasket attachment, small joint assembly, jewelry assembly, Orthopedics and footwear.

Description	Materials Bonded	Container Type	Container Size	Cured Color Family	Begins to Harden	Functional Cure	Full Cure	Shear Strength	Application Temp. Range	Item No.
1099 Scotch-Weld	Fabric, Foam, Plastic	Can	1 qt	Beiges	—	24 hr	24 hr.	1,306 psi	Less Than 230°F	**2RUE7**
		Tube	5.0 oz	Beiges	40 min	Not Rated	24 hr.	1,306 psi	Less Than 230°F	**3XH42**
4475 Industrial Plastic Adhesive	Fabric, Glass, Leather, Plastic, Vinyl	Tube	5.0 oz	Clears	5 min	Not Rated	24 hr.	1,000 psi	Less Than 230°F	**3XH51**
PR100	Cardboard, Ceramic, Cork, Fabric, Felt, Vinyl, Glass, Leather, Metal, Paper, Plastic, Foam, Rubber, Wood	Bottle	0.7 oz	—	10 to 30 sec	24 hr	24 hr	2,100 psi	—	**400G26**

Hysol U-05FL
4UK14

LOCTITE

Urethane Adhesives

- 1.69-oz. cartridge
- Temp. range: -65° to 250°F

Urethane or polyurethane adhesives exhibit superior moisture and humidity resistance, as well as good toughness and flexibility. They bond a wide variety of materials, including most metals plastics, and composites.

Hysol U-05FL—Bonds a variety of metals, as well as plastics, glass, wood, and more. Can also be used for potting and encapsulating strain and heat sensitive electronic components.

Hysol U-09FL—Ideal for bonding polycarbonate and other plastics, glass, and metal. Suited for applications requiring a clear, nonyellowing bond line.

Hysol U-09LV—Bonds polycarbonate and other plastics, glass, and metal. Suited for applications requiring a clear, nonyellowing bond line.

Description	Type	Color	Work Life	Functional Cure	Full Cure	Mixing Ratio	Shear Strength (psi)	Item No.
Hysol® U-05FL™	No-Mix Adhesive Kit	Off-White	5 min	3 hr	72 hr	1:2	930	**4UK14**
Hysol® U-09FL™	For Plastic, Impact Resistant, High Peel	Clear	10 min	2 hr	72 hr	1:1	1,460	**2VRJ3**
Hysol® U-09LV™	Low Viscosity, Medium Work Life	Clear	10 min	3 hr	72 hr	1:1	1,146	**2VRJ4**

Westward
48H964

Cox
3EPT4

Cox
12G283

Loctite
3NVL4

Newborn
3EAD9

Epoxy Applicators and Nozzles

Description	For Use With	Application	Mixing Ratio	Includes	Mfr. Model	Item No.	Pkg. Qty.
Westward							
Manual Applicator							
Dual Cartridge Manual	50mL Duo-Pak Cartridges	Use With 50mL Duo-Pak Cartridges	1:1, 2:1	(2) Plungers	48H964	**48H964**	1
Plunger							
Epoxy Applicator Plungers	Dual Cartridge Manual Applicator	Use with Applicator 48H964	1:1, 10:1, 2:1, 4:1	Plungers for 1:1, 2:1, 4:1, 10:1 Mix Ratios	48H965	**48H965**	1
Static Mix Nozzle							
Mixing Epoxy Applicator Nozzle, 17 Cascades, 4 in Length	50mL Cartridges, Duo-Pak Cartridges	Use With Duo-Pak Epoxy Cartridges	1:1, 2:1	E-Z Click Injection Fitting	48H967	**48H967**	10
Mixing Epoxy Applicator Nozzle, 21 Cascades, 6 in Length, Round Connector	50mL Cartridges, Duo-Pak Cartridges	Use With Duo-Pak Epoxy Cartridges	1:1, 2:1, 4:1	E-Z Click Injection Fitting	48H966	**48H966**	10
Mixing Epoxy Applicator Nozzle, 16 Cascades, Square Green	50mL Cartridges, Duo-Pak Cartridges	Use With Duo-Pak Epoxy Cartridges	1:1, 2:1	E-Z Click Injection Fitting	48H968	**48H968**	10
3M							
Mixing Nozzle	45mL Duo-Pak Cartridges, EPX Plus II Applicator	Mixing Nozzle	10:1	—	NOZ	**33HE86**	36
Cox							
Manual Applicators							
Dual Cartridge	200mL Cartridges	To Dispense Sealants And Adhesives	1:1, 10:1, 2:1, 4:1	Plunger Kits for 4 Mix Ratios	M200XMR	**3EPT4**	1
Dual Cartridge	400mL Cartridges	To Dispense Sealants And Adhesives	1:1, 10:1, 2:1, 4:1	Plunger Kits for 4 Mix Ratios	M400XMR	**3EPT5**	1
Manual	50mL Cartridges	—	1:1, 10:1, 2:1, 4:1	Plunger Kits for All Mix Ratios	MP25	**12G283**	1
Manual	10 oz Cartridges	To Dispense Sealants and Adhesives	18:1	—	41004-XT	**23YJ69**	1
Manual	10 oz Cartridges	To Dispense Sealants and Adhesives	26:1	—	41004-2T	**23YJ70**	1
Pneumatic Applicators							
Dual Cartridge	400mL Cartridges	—	1:1, 10:1, 2:1, 4:1	Plunger Kits for All Mix Ratios	A400LPMR	**12G285**	1
Dual Cartridge	200mL Cartridges	—	1:1, 10:1, 2:1, 4:1	Plunger Kits for All Mix Ratios	A200LPMR	**12G284**	1
Devcon							
Manual Applicator							
Mark 5	35mL Cartridges, 47mL Cartridges, 50mL Cartridges	Use with Devcon 47ml and 50ml DevPak	1:1, 10:1, 2:1	(3) Plungers	14280	**4TT43**	1
Static Mix Nozzle							
Mark 5 Stepped Tip	50mL Cartridges, Mark 5 Gun	Use with 4TT43 Applicator Gun	1:1, 10:1, 2:1	—	14285	**4TT44**	1
Loctite							
Manual Applicator							
Dual Cartridge Manual	50mL Cartridges	Use With 50mL Epoxy Adhesives	1:1, 2:1	1:1 Plunger, 2:1 Plunger	720228	**3NVL4**	1
Static Mix Nozzles							
Mixing Nozzles	50mL Cartridges, A Style Cartridges	Use 50mL Epoxy Adhesives	1:1, 2:1, 4:1	Stepped Tip	833982	**3NVL6**	10
Stepped End	A Style Cartridges, All Hysol 50mL Cartridges	Use with All Hysol 50ml Cartridges	1:1, 2:1, 4:1	Stepped Tip	720230	**4UK16**	10
Newborn							
Manual Applicators							
Snap-In/Snap-Out Push Disk	16 oz Cartridges, 22 oz Cartridges, 300mL x 300mL Adhesives	Use With 300mL x 300mL Adhesives	1:1, 2:1, 4:1	Push Disks for 3 Mix Ratios	535-XSP	**3EAE2**	1
Snap-In/Snap-Out Push Disk	Mixpak and TAH 200mL Cartridges, Mixpak and TAH 400mL Cartridges	Use With 400mL Adhesives	1:1, 10:1, 2:1, 4:1	Push Disks for 4 Mix Ratios	VR400-XSP	**3EAE5**	1
Pneumatic Applicator							
Snap-In/Snap-Out Push Disk	16 oz and 22 oz Cartridges	Adhesives	1:1, 2:1, 4:1	—	830A30	**3EAD9**	1

3KYZ1

Epoxy, Urethane, and Silicone Adhesive Packets

- 1:1 mixing ratio
- Full cure: 24 hr.
- Pkg. of 10 (3.5g) packets

EPOXY ADHESIVES
Chemical- and water-resistant once cured.

SILICONE ADHESIVES
Flexible once cured to form a bond that resists moisture, vibration, ozone, and temperature extremes.

URETHANE ADHESIVES
Fast-setting adhesives have excellent tear, abrasion, wear, and scratch resistance.

Type	Substrates	Color	Work Life	Mfr. Model	Item No.
Epoxy Adhesives					
Fast Setting, Non-Sag, One Time Use	wood, glass, metal, stone, ceramics and leather	White	5 min	4008-BG10	**3KZA4**
Fast Setting, One Time Use	Wood, Glass, Metal, Stone, Concrete, Ceramics and Leather		3 min	4001-BG10	**3KYZ1**
General Purpose, One Time Use	Wood, Metal, Concrete, Fabrics, Most Plastics, Ceramics	Amber	45 min	4006-BG10	**3KZA2**
Machinable, One Time Use	Metal, Wood and Hard Plastics	Silver	25 min	4002-BG10	**3KYZ3**
One Time Use Wet Surface Patch	stone, concrete, metal, glass, china, wood and fiberglass.	Gray	25 min	4003-BG10	**3KYZ5**
Water Clear One Time Use	metal, ceramics, glass, porcelain and wood	Clear	1 hr	4004-BG10	**3KYZ7**
Silicone Adhesives					
One Time Use	metal, glass, wood, ceramics and many plastics	Off-White	10 min	4030-BG10	**3KZC3**
Urethane Adhesives					
High Peel Strength, One Time Use	Rubber, Leather, China, Many Plastics	Tan	5 min	4022-BG10	**3KZA6**
Semi-Rigid, One Time Use	Rim Ports, Rubber, Flexible Electrical Connections	White	5 min	4023-BG10	**3KZA8**

EA 3463 Metal Magic Steel Stick
5TT85

EA 3473 Fast Set Steel Putty
2TKP9

Fixmaster 2000° Putty
2TKR6

WaterWeld
2UV86

Wood Restore
39F873

Repair Putties

LOCTITE

EA 3463 Metal Magic Steel—Seals pipes, gas tanks, water tanks, and vessels. Epoxy stick can be kneaded.

EA 3471 Steel Putty—Steel-filled, nonsagging epoxy bonds to stainless steel, concrete, cast-iron, and other metals.

EA 3472 Steel Liquid—Steel-filled, pourable epoxy bonds to steel, cast-iron, stainless steel, and concrete.

EA 3473 Fast-Set Steel Putty—Trowelable putty sets quickly and is machinable when cured.

EA 3476 Stainless Steel Putty—Trowelable putty matches the thermal expansion coefficient of stainless steel.

EA 3478 Superior Metal—Renews and protects surfaces from corrosion and abrasion in harsh environments. Use on fuel and gas tanks, pipes, and elbows.

PC 7254 Aluminum Putty—Trowelable epoxy can be machined when cured.

Fixmaster 2000°F Putty—Trowelable, machinable putty fills and restores damaged and cracked metal.

J-B WELD

SteelStik—Hand-kneadable and steel-reinforced putty. Requires no tools or prep time. Makes permanent repairs on wet and dry surfaces.

Waterweld—Hand-kneadable. Cures under water. For metal, plastics, and composites. Safe for use with PVC plumbing and potable water contact.

KwikWood Epoxy Putty—Repairs and rebuilds damaged, missing, and rotted wood quickly.

Wood Restore Repair Putty—Easy-to-sand putty fills cracks and voids in wood and can be painted in 1 hr. Use indoors or out.

PC PRODUCTS

PC-Plumbing—For sealing plumbing components with potable water contact. Cures wet or dry. Waterproof after cured. Use on PVC, ABS, stainless steel, copper, galvanized, black pipes, and tubing.

HERCULES

Mixes quickly and easily to form a permanent bond in 20 min. Adheres to almost all surfaces including metals, masonry, wood, glass, ceramic, and some plastics.

Description	Type	Color	Temp. Range	Shear Strength	Work Life	Functional Cure	Size	Mfr. Model	Item No.
Loctite									
EA 3463 Metal Magic Steel	Steel Filled, in Stick Form	Gray	Up to 250°F	2,500 psi	3 min	10 min	4 oz	209681	**5TT85** †
PC 7222 Wear Resistant Putty	Epoxy	Gray	-20° to 225°F	—	30 min	6 hr	1 lb	235626	**52HA74**
EA 3471 Steel Putty	Steel Filled, Non-Slumping	Gray	Up to 225°F	4,900 psi	30 min	6 hr	1 lb	219292	**5TT87**
EA 3472 Steel Liquid	Steel Filled, Self-Leveling	Gray	Up to 225°F	6,000 psi	25 min	6 hr	1 lb	235617	**5TT82**
		Gray	Up to 225°F	6,000 psi	25 min	6 hr	4 lb	235618	**2TKP7**
EA 3473 Fast Set Steel Putty	Steel Filled, Non-Slumping, Faster Setting	Gray	Up to 200°F	4,600 psi	3 min	10 min	1 lb	219293	**2TKP9**
EA 3476 Stainless Steel Putty	Stainless Steel Filled, Non-Rusting, Non-Slumping	Gray	Up to 225°F	4,600 psi	20 min	6 hr	1 lb	235613	**2TKP8**
EA 3478 Superior Metal	Ferro-Silicone Filled, High Strength and Wear Resistance	Dark Gray	Up to 250°F	5,500 psi	20 min	6 hr	1 lb	209822	**5TT81**
PC 7254 Aluminum Putty	Aluminum Filled, Non-Slumping	Aluminum	Up to 200°F	4,000 psi	20 min	6 hr	1 lb	235615	**5TT80**
Fixmaster 2000° Putty	High Temperature	Gray	Up to 2000°F	675 psi	30 min	7 hr	8 oz	235579	**2TKR6**
J-B Weld									
SteelStik	Waterproof, Petro, Chemical, and Acid Resistant	Gray	Up to 300°F	1,000 psi	5 min	30 min	2 oz	8267-S	**2UV84**
Waterweld	Underwater, Petro, Chemical, and Acid Resistant	Off-White	Up to 250°F	700 psi	2 min	20 min	2 oz	8277	**2UV86**
KwikWood Epoxy Putty	Solvent Free, 1 Part	Tan	—	500 psi	15 min	60 min	1 oz	8257	**5DFV1**
Wood Restore	Wood Restore	Taupe	—	—	—	1 hr	12 oz	40003	**39F873**
		Taupe	—	—	—	1 hr	32 oz	40004	**39F874**
PC Products									
PC-Plumbing	Hand Moldable, 2-Part Epoxy	Gray	-20 to 250°F	900 psi	3 min	60 min	2 oz	025598	**4AUX2** †
		Gray	-20° to 250°F	900 psi	3 min	60 min	4 oz	045596	**4AUX3** †
Hercules									
Proproxy 20	Fast Acting	Dark Gray/Black	—	700 psi	—	20 min	4 oz	25515C	**5KAV9**

† NSF 61 Certified.

LOCTITE®

Wear-Resistant Coating Kits

Protect equipment from harsh industrial environments. Provide max. operating temp., compression strength, work time, and functional cure. Ideal for large-scale repairs. All include resin and hardener. Gray color.

2TUP6

Description	Type	Mixing Ratio	Work Life	Full Cure	Temp. Range (F)	Compressive Strength (psi)	Mfr. Model	Item No.
Surface Protective Coating, 3 lb.	Fine Particle Abrasion	4:1	30 min	6 hr	-65° to 250°	15,000	209824	**2TUP6**
Surface Protective Coating, 6 lb	Fast Cure	2:1	10 min	3 hr	-65° to 225°	12,000	235598	**2TUP9**
Surface Protective Coating, 25 lb	Fine Particle Abrasion	4:1	30 min	6 hr	-65° to 250°	15,000	209676	**2TUP7**
Surface Protective Coating, 25 lb	High-Temperature	4:1	30 min	Heat Cure	-65° to 450°	15,000	235622	**2TUP8**

LOCTITE®

Nordbak Brushable Ceramic

This epoxy brushes on to form an ultra-smooth, high-gloss, corrosion-resistant finish that minimizes friction. Protects against turbulence, abrasion, and cavitation. Can also be used as a top coat over Loctite Nordback wearing compounds for surface rebuilding and lasting protection. Gray color.

Mixing Ratio	Work Life	Functional Cure	Temp. Range	Shear Strength	Mfr. Model	Item No.
2.75:1	30 min	6 hr	Up to 200°F	12,500 psi	209826	**5TT84**

LOCTITE®

Belt/Rubber Repair and Etching/Cleaning Solutions

- Up to 180°F

URETHANE BELT REPAIR

Abrasion-, corrosion-, and impact-resistant products repair conveyor belts and damaged rubber equipment. Nonshrinking and completely unaffected by oil, grease, and water.

MR Flex 80 Putty Pourable Repair Compound—Rebuilds and repairs rubber parts and lines in pumps. Trowelable, 2-part putty bonds to metal, concrete, rubber, and some plastics.

MR Flex 80 Liquid Repair Compound—Castable, 2-part urethane makes molds, fixtures, and expansion joints. Use for nonscratching holding fixtures.

Fixmaster Rapid Rubber Repair Urethane—Premium-quality belt repair for damaged rubber equipment. Quickly and easily repairs with the same durability and flexibility as the belt.

ETCHING AND CLEANING SOLUTIONS

For use with Rapid Rubber Repair 2WKR2.

SF FM Etching Agent Activator etches surfaces for better bonding of urethanes.

SF 8220 Flex Cleaner is a colorless liquid designed to thoroughly clean rubber, urethane, or metal surfaces before cleaning. Nontoxic formula dries quickly and leaves no residue. One-component liquid cures at room temperature and requires no mixing.

MR Flex 80 Liquid Repair Compound 5TT77

Fixmaster Rapid Rubber Repair Urethane 2WKR2

SF FM Etching Agent Activator 2WKP8

Description	Type	Mixing Ratio	Work Life	Functional Cure	Tensile Strength	Size	Mfr. Model	Item No.
Urethane Belt Repair								
MR Flex 80 Putty Pourable Repair Compound	Trowelable, Corrosion and Impact Resistant	100:40	10 min	8 hr	1,500 psi	1 lb	209821	**5TT78**
MR Flex 80 Liquid Repair Compound	Ideal for Casting Molds, Fixtures, and Parts	100:13.3	20 min	8 hr	1,800 psi	1 lb	209820	**5TT77**
Fixmaster Rapid Rubber Repair Urethane	To Repair Conveyor Belts and Line Pumps	1:1	1 min	2 hr	1,300 psi	400 mL	428557	**2WKR2**
Etching and Cleaning Solutions								
SF FM Primer Activator, 3-fl. oz. Bottle, Enhances Bonds to Rubber							235638	**2WKP8**
SF 8220 Flex Cleaner, 4-fl. oz. Can, Cleans and Primes Surfaces							233307	**2WKP9**

Threadlocker Guide

Threadlockers significantly increase the reliability of threaded fasteners. Liquid fills gaps between threads to help form solid, unitized assemblies. They help prevent fasteners from loosening due to vibration and protect against rust and corrosion. Depending on the formula, threadlockers can be primerless and oil tolerant.

Color	Strength Level	Disassembly	Removable With	Full Cure Time	Optium Temp. Ranges	For Fastener Diameter
Purple	Low	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ¼" (6mm)
Green	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ½" (12mm)
Blue	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	¼" to ¾" (6mm to 22mm)
Red	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 550°F	Up to ½" (36mm)
Black	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 300°F	Larger than ⅞"

*No threadlocker is permanent. High strength can be removed using standard hand tools following direct exposure to temperatures of 450°F.

Purple
2VZC3

Blue
5HYH7

Green
49CF71

Red
49CF49

Plastic Fastener
2VZD1

Stick
3UU58

Tape
5HYJ1

LOCTITE Vibra-TITE

Threadlockers

Primerless Threadlockers—Allow you to apply threadlocking material without using priming activators.

Threadlockers—Help prevent damage to fasteners by sealing air gaps to stop fasteners from loosening. Primers are often suggested when using threadlockers to help increase adhesion to fasteners. For a selection of primers, see page 2223.

Wicking-Grade Threadlockers—Ideal for threaded assemblies, these low viscosity threadlockers flow or wick themselves onto threads. Meet MIL-S-46163A for existing designs. 49CF71 also meets ASTM D 5363 for new design.

HIGH LUBRICITY

High-strength formula with increased lubricity reduces friction and achieves proper clamp load, even when exposed to vibration. Use for permanent applications on large metal fasteners over ⅞" dia.

PLASTIC FASTENER

Low-strength and fast-curing threadlocker can be used as a tamperproofing agent for screw heads.

STICK

Semisolid stick formula won't spill or leak.

TAPE

Offers convenience with no mess. Works with 3 wraps on threaded bolts every time.

Threadlocker Color	Threadlocker Classification	Size	Threadlocker Container	Begins to Harden	Series	Temp. Range	Brand	Item No.
Low-Strength								
Purple	Threadlocker	0.5 mL	Capsule	10 min	222	-65° to 300°F	Loctite	**2VZC3**
		10 mL	Bottle	20 min	222MS	-65° to 300°F	Loctite	**5E212**
		50 mL	Bottle	10 min	222MS	-65° to 300°F	Loctite	**5E213**
		250 mL	Bottle	4 min	111	-60° to 300°F	Vibra-Tite	**49CE74**
Medium-Strength								
Blue	Primerless Threadlocker	10 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH7**
		50 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH5**
		250 mL	Bottle	4 min	122	-60° to 300°F	Vibra-Tite	**49CF38**
	Threadlocker	0.5 mL	Capsule	5 min	242	-65° to 300°F	Loctite	**2VZC4**
		10 mL	Bottle	5 min	242	-65° to 300°F	Loctite	**5A228**
		50 mL	Bottle	5 min	242	-65° to 300°F	Loctite	**2A269**
		250 mL	Bottle	4 min	121	-60° to 300°F	Vibra-Tite	**49CJ64**
Green	Wicking Grade Threadlocker	10 mL	Bottle	20 min	290	-65° to 300°F	Loctite	**5E216**
		50 mL	Bottle	20 min	290	-65° to 300°F	Loctite	**5E217**
		250 mL	Bottle	4 min	150	-60° to 300°F	Vibra-Tite	**49CF71**
Medium-Strength, Removable With Hand Tools								
Blue	Primerless Threadlocker	250 mL	Bottle	5 min	243	-65° to 360°F	Loctite	**5HYH6**
	Threadlocker	250 mL	Bottle	10 min	242	-65° to 300°F	Loctite	**4KL40**
High-Strength								
Red	Primerless Threadlocker	10 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYH9**
		50 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYJ0**
	Threadlocker	0.5 mL	Capsule	10 min	262	-65° to 300°F	Loctite	**2VZC6**
		0.5 mL	Capsule	10 min	271	-65° to 300°F	Loctite	**2VZC7**
		10 mL	Bottle	4 min	2760	-65° to 300°F	Loctite	**1LLP8**
		10 mL	Bottle	10 min	262	-65° to 300°F	Loctite	**5E214**
		10 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**5A230**
		10 mL	Bottle	60 min	277	-65° to 300°F	Loctite	**3KE48**
		50 mL	Bottle	10 min	262	-65° to 300°F	Loctite	**5E215**
		50 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**5A231**
		50 mL	Bottle	60 min	272	-65° to 450°F	Loctite	**4KL51**
		50 mL	Bottle	60 min	277	-65° to 300°F	Loctite	**3KE49**
		250 mL	Bottle	4 min	131	-60° to 300°F	Vibra-Tite	**49CF49**
		250 mL	Bottle	9 min	140	-60° to 300°F	Vibra-Tite	**49CF63**
		250 mL	Bottle	9 min	137	-60° to 450°F	Vibra-Tite	**49CF57**
		250 mL	Bottle	9 min	146	-60° to 300°F	Vibra-Tite	**49CF66**
High-Strength, Removable With Heat and Hand Tools								
Red	Primerless Threadlocker	250 mL	Bottle	10 min	263	-65° to 360°F	Loctite	**5HYH8**
	Threadlocker	250 mL	Bottle	10 min	271	-65° to 300°F	Loctite	**4KL50**
		250 mL	Bottle	60 min	272	-65° to 450°F	Loctite	**4KL52**
High Lubricity Threadlocker								
Black	High Lubricity Threadlocker	50 mL	Bottle	90 min	2047	-65° to 300°F	Loctite	**19L453**
Plastic Fastener Threadlocker								
Blue	Plastic Fastener Threadlocker	0.7 oz	Bottle	1.5 min	425	-65° to 180°F	Loctite	**2VZD1**
Stick Threadlocker								
Blue	Threadlocker	0.32 oz	Stick	5 min	248	-65° to 300°F	Loctite	**3UU58**
		0.67 oz	Stick	5 min	248	-65° to 300°F	Loctite	**3UU52**
Red		0.32 oz	Stick	5 min	268	-65° to 300°F	Loctite	**3UU56**
		0.67 oz	Stick	5 min	268	-65° to 300°F	Loctite	**3UU57**
Threadlocker Tape								
		Medium-Strength, ½ in W x 260 in L					Loctite	**5HYJ1**

LOCTITE

Retaining Compounds

Retaining compounds fill the space between parts to hold them in place with a high-strength bond. They harden in the absence of air (called anaerobic adhesives). Full cure in 24 hr.

Low-Viscosity—Bond rigid metal assemblies. Fixture in 10 min. Agency approvals: CFIA, MIL-R-46082B for existing designs, ASTMD-5363 for new designs.

High-Temperature—High-viscosity for repairing valve sleeves, retaining valve seats, and affixing cylindrical liners. Fixture in 30 min. CFIA listed.

Note: Require a secondary heat cure at 356°F (180°C) to generate high-temp. resistance.

High-Strength—Room temp.-curing adhesives are for pulleys, cams, flywheels, and rotor-to-shaft bonds. Fixture in 10 min. NSF/ANSI-61 certified, ABS approved, and CFIA listed.

Specialty—Nonrun paste fills metal surface imperfections and repairs worn areas to keep machinery running. Repairs worn shafts, splines, keyways, and housings. Fixtures in 20 min. CFIA listed.

Loctite 609
4KM29

Loctite 660
5E227

Description	Shear Strength (psi)	Filling Gap Size	Max. Temp. (°F)	10mL Item No.	50mL Item No.	250mL Item No.
Low-Viscosity						
Loctite® 609	2,300 psi	Up to 0.006"	300°F	**4KM29**	**4KM30**	—
High-Temperature						
Loctite® 620	3,800 psi	Up to 0.015"	450°F	**4KM32**	**4KM33**	**4KM34**
High-Strength						
Loctite® 680	4,000 psi	Up to 0.015"	300°F	**4KM40**	—	**3KE51**

Trade Name	Shear Strength (psi)	Filling Gap Size	Max. Temp. (°F)	Size	Item No.
Specialty					
Loctite® 660™	3,335 psi	Up to 0.020"	300°F	6ml	**2TRL2**
				50ml	**5E227**

Vibra-TITE LOCTITE Devcon 3M

Primers, Activators, and Accelerators

Anaerobic adhesives cure in the absence of air and in the presence of metal ions. When assembling inactive metal parts, which are low in metal ions, primers are recommended to ensure proper adhesion. Use with anaerobic threadlockers, retaining compounds, pipe sealants, and gasketing materials.

Primer Is Recommended for Inactive Metals	Primer Is Optional for Active Metals
Aluminum - Anodized (Alodine, Irridite) and Pure, Black Oxide - Natural or Chemical, Cadmium, Gold, Iconel, Magnesium, Plated Parts, Silver, Stainless Steel, Steel - Galvanized and Magnetite, Titanium, and Zinc	Brass, Bronze, Copper, Iron, Kovar, Manganese, Monel, Nickel, and Plain Steel

6V556

2VRL9

2VFK6

2JCA4

49CH77

Description	For Use With	Type	Size	Dry Time	Viscosity	Color	Brand	Mfr. Model	Item No.
Primers									
61100	Anaerobics Adhesives	Acetone-Based	1 gal. Can	30 to 70 sec	2 cps	Light Green	Vibra-Tite	61100	**49CH60**
61102	Anaerobics Adhesives	Acetone-Based	2 oz. Can	30 to 70 sec	2 cps	Light Green	Vibra-Tite	61102	**49CH61**
61108	Anaerobics Adhesives	Acetone-Based	8 oz. Can	30 to 70 sec	2 cps	Light Green	Vibra-Tite	61108	**49CH62**
61202	Anaerobics Adhesives	Acetone/Isopropanol-Based	2 oz. Can	30 to 70 sec	2 cps	Amber	Vibra-Tite	61202	**49CH64**
61208	Anaerobics Adhesives	Acetone/Isopropanol-Based	8 oz. Can	30 to 70 sec	2 cps	Amber	Vibra-Tite	61208	**49CH65**
625	Cyanoacrylates	Heptane-Based	4 oz. Can	Less Than 30 sec	1 cps	Light Amber	Vibra-Tite	62504	**49CH80**
626	Cyanoacrylates	Acetone-Based	1 gal. Can	Less Than 30 sec	1 cps	Light Amber	Vibra-Tite	62600	**49CJ75**
	Cyanoacrylates	Acetone-Based	4 oz. Can	Less Than 30 sec	1 cps	Light Amber	Vibra-Tite	62604	**49CJ73**
	Cyanoacrylates	Acetone-Based	8 oz. Can	Less Than 30 sec	1 cps	Light Amber	Vibra-Tite	62608	**49CJ72**
7090	Loctite Anaerobics to Ensure The Cure of Inactive Surfaces and Speed the Cure of Machinery Adhesives.	—	1L	Does Not Dry	17.5 cps	—	Loctite	88068	**36D061**
Flexane Primer	—	Promotes Adhesion to Metal Parts	4-oz. Can	5 to 15 min	10 cps	Blue	Devcon	15980	**6V556**
	—	Promotes Adhesion to Concrete, Rubber, and Wood	4-oz. Can	30 min	10 cps	Orange	Devcon	15985	**6V557**
Loctite 7088	Anaerobics	Semisolid	17g Stick	Does Not Dry	Semisolid	Teal	Loctite	1069258	**2VRL9**
Loctite 7649	Anaerobic Adhesives	Aerosol	4.5 oz. Aerosol	30 to 70 sec	2 cps	—	Loctite	209715	**4KL21**
	Anaerobic Adhesives	Aerosol Can	25g Aerosol	30 to 70 sec	2 cps	Green	Loctite	231020	**2VFK7**
	Anaerobic Adhesives	—	—	30 to 70 sec	2 cps	Light Green	Loctite	135286	**4KL11**
Loctite SF 7471	Anaerobic Adhesives	Bottle	1.75 oz. Bottle	30 to 70 sec	2 cps	Amber	Loctite	135285	**2VFK6**
	Anaerobic Adhesives And Sealants On Inactive Metals	—	4.5 oz. Aerosol	30 to 70 sec	2 cps	—	Loctite	135337	**3HV17**
Loctite SF 770	—	—	—	8 to 9 sec	0.62 cps	—	Loctite	2759219	**794F22**
Safety Walk Primer	3M™ Safety-Walk™ Slip-Resistant Tapes and Treads	Solvent-Based	1 qt.	15 min	900 to 1,500 cps	—	3M	19339	**21YT80**

Description	Size	Color	Brand	Mfr. Model	Item No.
Activators					
7387, For use with Depend Adhesive	4.5-oz. Aerosol	Yellow	Loctite	209714	**2VFK4**
	1.75-oz. Bottle	Yellow	Loctite	135276	**2VFK3**
Fastbond 2000 NF	5 gal.	Clear	3M	1	**2JBR3**
	1L	Clear	3M	1	**2JCA4**
	32 oz.	Clear	3M	56533	**2JCA3**
Accelerators					
SF 7452	—	Orange	Loctite	2765219	**794F23**

Type	Viscosity	Size	On-Part Life	Color	Brand	Mfr. Model	Item No.
Accelerators							
Heptane-Based	0.4 cps	1.75 fl. oz. Bottle	24 hr	Clear	Loctite	135294	**19TT66**
	1 cps	2 oz. Can	1 min	Light Amber	Vibra-Tite	62302	**49CH71**
	1 cps	2 oz. Can	24 hr	Clear	Vibra-Tite	62102	**49CH67**
	1 cps	4 oz. Can	1 min	Light Amber	Vibra-Tite	62304	**49CH72**
	1 cps	4 oz. Can	24 hr	Clear	Vibra-Tite	62104	**49CH68**
	1 cps	8 oz. Can	1 min	Light Amber	Vibra-Tite	62308	**49CH73**
	1 cps	8 oz. Can	24 hr	Clear	Vibra-Tite	62108	**49CH69**
Isopropanol-Based	1 cps	0.7 fl. oz. Spray	1 min	Clear	Loctite	229783	**2VFJ9**
	1 cps	1.75 fl. oz. Bottle	1 min	Clear	Loctite	135316	**2VFJ8**
	1 cps	2 oz. Can	1 min	Light Amber	Vibra-Tite	62402	**49CH75**
	1 cps	4 oz. Can	1 min	Light Amber	Vibra-Tite	62404	**49CH76**
	1 cps	8 oz. Can	1 min	Light Amber	Vibra-Tite	62408	**49CH77**

RectorSeal #5
4YRV9

Slic-tite Paste w/PTFE
2F896

561 Thread Sealant Stick
3UU53

Pipe Thread Repair Kit
4KM86

Pipe Thread Sealants and Repair Kits

THREAD SEALANT
Anaerobic thread sealants are applied to a metal fastener and installed into a metal assembly. In the absence of air and the presence of active metals, the anaerobic compound will cure into a thermoset plastic, thus locking and sealing the fastener in place.

REFRIGERANT PIPE SEALANT
Refrigerant Pipe Sealant has excellent solvent resistance on threaded fittings and pipes up to 3" dia. It has good chemical resistance and is recommended for refrigeration systems and service with aggressive chemicals.

PIPE THREAD SEALANT
Seal threaded pipe fittings propery and block the leak path along the threads. Help make sure pipe joints are pressure-tight and waterproof.

PIPE THREAD REPAIR KITS
Make permanent repairs to stripped, threaded assemblies in 5 min. Allow up to 1538 in.-lb. torque on a 1" bolt. Resist most shop fluids.

PIPE JOINT COMPOUND
Pliable compound seals oily fittings and resists loosening by thermal expansion. Use on water, steam, oil, and fuel lines.

Size	Container Type	Chemical Type	Strength	Color	Gas Pressure Range	Liquid Pressure Range	Full Cure	Begins to Harden	Application Temp. Range	Brand	Item No.
Thread Sealant with PTFE											
4 oz	Brush Top Can	Polymeric Material	—	White	—	—	—	—	—	Permatex	**3DPR7**
	Can	PTFE	—	Blue	2,000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRW8**
8 oz	Can	PTFE	—	White	2,000 psi	10,000 psi	Non Setting Immediate Test	—	20° to 140°F	Rectorseal	**4YRW6**
	Can	PTFE	—	Blue	2,000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRW9**
16 oz	Brush Top Can	PTFE	—	White	—	—	—	—	—	Permatex	**2GXY8**
	Can	PTFE	—	White	2,000 psi	10,000 psi	Non Setting Immediate Test	—	20° to 140°F	Rectorseal	**4YRW7**
	Can	PTFE	—	Blue	2,000 psi	10,000 psi	Flexible Set Cure Time Varies	—	20° to 140°F	Rectorseal	**4YRX1**
Thread Sealant											
1 L	Bottle	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr	—	72°F	Loctite	**6KXK4**
4 oz	Can	—	—	Yellow	2,600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRV8**
8 oz	Can	—	—	Yellow	2,600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRV9**
16 oz	—	—	—	Black	—	—	Varies	Limitless	—	Rectorseal	**46F524**
	Brush Top Can	Proprietary Polymeric Material Containing Dispersed PTFE and Isopropyl Alcohol	—	White	—	—	Remains Tacky	—	72°F	Loctite	**16NH11**
	Can	—	—	Yellow	2,600 psi	12,000 psi	Soft Set Pressure Test Immediately	—	20° to 140°F	Rectorseal	**4YRW1**
19 g	Stick	Methacrylate Ester	Low	White	10,000 psi	—	24 hr	—	72°F	Loctite	**3UU53**
50 mL	Bottle	Methacrylate Ester	—	Purple	10,000 psi	—	—	—	72°F	Loctite	**5A237**
	Bottle	Methacrylate Ester	Low	Brown	10,000 psi	—	—	—	72°F	Loctite	**4KM18**
	Tube	—	—	White	—	—	—	—	—	Permatex	**2GXX5**
	Tube	Dimethacrylate Ester	Low	White	—	—	24 hr	Primed 1-3 hr, Unprimed 6-24 hr	72°F	Loctite	**12Z238**
	Tube	Dimethacrylate Ester	Medium	White	10,000 psi	—	—	24 hr	72°F	Loctite	**4KM24** †
	Tube	Methacrylate Ester	—	Purple	10,000 psi	10,000 psi	—	—	72°F	Loctite	**6JZW3**
	Tube	Methacrylate Ester	Low	White	10,000 psi	—	24 hr	—	72°F	Loctite	**4KM15**
250 mL	Bottle	Methacrylate Ester	—	Purple	10,000 psi	—	24 hr	—	72°F	Loctite	**4KM12**
	Tube	Dimethacrylate Ester	Medium	White	10,000 psi	—	—	24 hr	72°F	Loctite	**4KM25**
	Tube	Methacrylate Ester	—	Purple	10,000 psi	10,000 psi	—	—	72°F	Loctite	**6JZW4**
	Tube	Methacrylate Ester	Low	White	10,000 psi	—	24 hr	—	72°F	Loctite	**4KM16** †
Refrigerant Sealant											
10 mL	Bottle	Methacrylate Ester	High	Red	10,000 psi	—	—	—	72°F	Loctite	**1YDZ3**
250 mL	Bottle	Methacrylate Ester	High	Red	10,000 psi	—	—	—	72°F	Loctite	**1YDZ4**
Pipe Thread Sealant											
1.25 oz	Paperboard Holder	PTFE	—	White	350 psi	2,000 psi	Soft Set Compound	Seals within 2 min	0° to 350°F	La-Co	**2F892**
8 oz	Plastic Bottle With Brush Cap	PTFE	—	White	3,000 psi	10,000 psi	Soft Set Compound	Seals within 2 min	-50° to 500°F	La-Co	**2F896**
Pipe Sealants											
16 oz	Bottle	Polymerized Vegetable Oil	—	Black	—	—	—	—	—	Permatex	**3DPR1**
50 mL	Bottle	Anaerobic	High	Brown	—	—	24 hr	—	72°F	Vibra-Tite	**49CH21**
	Tube	Anaerobic	Medium	Yellow	—	—	72 hr	—	72°F	Vibra-Tite	**49CH13**
	Tube	Dimethacrylate Ester	Medium	Yellow	10,000 psi	10,000 psi	24 hr	30 min	-65° to 450°F	Loctite	**49CR90**
	Tube	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr	30 min	-65° to 450°F	Loctite	**49CR86**
250 mL	Bottle	Anaerobic	High	Purple	—	—	24 hr	—	72°F	Vibra-Tite	**49CH16**
	Tube	Anaerobic	High	White	—	—	24 hr	—	72°F	Vibra-Tite	**49CH29**
	Tube	Dimethacrylate Ester	Medium	Yellow	10,000 psi	10,000 psi	24 hr	30 min	-65° to 450°F	Loctite	**49CR91**
	Tube	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr	30 min	-65° to 450°F	Loctite	**49CR87**
350 mL	Brush Top Can	Methacrylate Ester	Low	White	10,000 psi	10,000 psi	24 hr	30 min	-65° to 450°F	Loctite	**49CR88**
Pipe Repair Kits											
2 in x 6 ft	—	—	—	Yellow	—	—	—	—	—	Loctite	**4KM86**
4 in x 12 ft	—	—	—	Yellow	—	—	—	—	—	Loctite	**2PAD3**

† UL Approved.

Instant Adhesives

- "Multipurpose" items fill gaps up to 0.004"
- "Toughened" items provide increased impact and shear strength
- "Gap-Filling" set slowly, allowing adjustment and filling up to 0.008"
- "Close-Fitting Parts" are solvent-free with high tensile and shear strengths for tight tolerance
- "Porous Surfaces" bond a wide range of uneven and absorbent substrates

Instant adhesives provide very strong bonds and start curing almost immediately.

29UJ23

49UU19

5XB48

1LLR6

6JZX0

5E355

5XB49

3EHP2

49CG15

49CG18

Trade Name	Size	Description	Gap Fill	Viscosity	Temp. Range	Item No.	Pkg. Qty.
3M							
Scotch-Weld SI100	0.7 oz.	Multipurpose	—	80 to 120 cPs	-65° to 180°F	**29UJ23**	1
Gorilla							
Brush & Nozzle	10g	Multipurpose	—	—	-65° to 180°F	**49UU19**	1
Loctite							
380™	3g	Toughened, for Close-Fitting Parts	0.006 in	300 cPs	-65° to 225°F	**3KE57**	1
	1 oz.		0.006 in	200 cPs	-65° to 225°F	**5E211**	1
401™	3g	Multipurpose, Surface-Insensitive	0.005 in	90 cPs	-65° to 250°F	**2VFG1**	1
	20g		0.005 in	90 cPs	-65° to 250°F	**2VFG2**	1
403™	20g	Gap-Filling, Low Odor/Low Bloom, Surface-Insensitive	0.008 in	1200 cPs	-65° to 200°F	**5XB48**	1
404®	⅓ oz.	Rubber O-Ring Bonder	0.005 in	80 cPs	-65° to 180°F	**5E205**	1
	4 oz.	Rubber Bonder	0.005 in	80 cPs	-65° to 180°F	**36D059**	1
406™	3g	Wicking Grade, Surface-Insensitive	0.004 in	20 cPs	-65° to 250°F	**2VFG3**	1
409™	3g	Multipurpose	0.01 in	Gel	-65° to 180°F	**2VFH8**	1
	20g		0.01 in	Gel	-65° to 180°F	**5E210**	1
410™	20g	Gap-Filling, Toughened	0.008 in	3500 cPs	-65° to 225°F	**2VFG8**	1
	3g		0.008 in	3500 cPs	-65° to 225°F	**2VFG7**	1
411™	20g		0.008 in	5000 cPs	-65° to 210°F	**4KL81**	1
414™	3g	Multipurpose, for Plastics	0.006 in	110 cPs	-65° to 180°F	**2VFH9**	1
	1 oz.		0.006 in	110 cPs	-65° to 180°F	**5E207**	1
415™	1 oz.	Gap-Filling, for Metals	0.008 in	1500 cPs	-65° to 180°F	**2VFJ1**	1
416™	1 oz.	Gap-Filling, for Plastics	0.008 in	1500 cPs	-65° to 180°F	**5E208**	1
420™	1 oz.	Wicking Grade, for Plastics	0.002 in	2 cPs	-65° to 180°F	**4KL86**	1
426™	20g	Toughened, for Porous Surfaces	0.01 in	Gel	-65° to 210°F	**2VFH1**	1
	10g		0.01 in	Gel	-65° to 210°F	**2VFG9**	1
430™	3g	For Close-Fitting Metal Parts	0.005 in	80 cPs	-65° to 180°F	**4XZ71**	1
	1 oz.		0.005 in	80 cPs	-65° to 180°F	**5E206**	1
431™	20g	Gap-Filling, High Viscosity	0.008 in	1000 cPs	-65° to 180°F	**3CHD7**	1
435™	20g	Surface-Insensitive, High Peel Strength	—	175 cPs	-65° to 225°F	**3CHD5**	1
444™	20g	Wire Tacking	0.007 in	700 cPs	-65° to 180°F	**4KK94**	1
454™	3g	Multipurpose, Porous Surface	0.01 in	Gel	-65° to 250°F	**5A232**	1
	0.14 oz.		0.01 in	Gel	-65° to 250°F	**1LLR6**	1
	10g		0.01 in	Gel	-65° to 250°F	**5XB52**	1
	20g		0.01 in	Gel	-65° to 250°F	**5A233**	1
	30g		0.01 in	Gel	-65° to 180°F	**6JZX0**	1
	200g	Multipurpose, for Porous Surfaces	0.01 in	Gel	-65° to 250°F	**4KL94**	1
455™	10g	Low Odor/Low Bloom Gel, for Porous Surfaces	0.01 in	Gel	-65° to 200°F	**2VFG4**	1
	200g		0.01 in	Gel	-65° to 200°F	**4KK97**	1
460™	20g	Low Odor/Low Bloom, for Close-Fitting Parts, Surface-Insensitive	0.004 in	45 cPs	-65° to 200°F	**4KL96**	1
480™	20g	Fast-Setting, Toughened	0.006 in	200 cPs	-65° to 180°F	**2VFH2**	1
493™	1 oz.	Wicking Grade, for Metals	0.002 in	2 cPs	-65° to 180°F	**2VFJ3**	1
495™	3g	Multipurpose	0.004 in	45 cPs	-65° to 250°F	**5E355**	1
	1 oz.		0.004 in	45 cPs	-65° to 250°F	**4KM01**	1
496™	1 oz.	Multipurpose, for Rubber	0.006 in	125 cPs	-65° to 180°F	**2VFJ5**	1
498	1 oz.	Thermal Cycling, Medium Viscosity	0.007 in	500 cPs	-65° to 180°F	**2VFJ6**	1
499™	10g	Thermal Cycling	0.01 in	Gel	-65° to 200°F	**2VFJ7**	1
4203™	20g	Thermally Resistant, for Close-Fitting Parts	0.005 in	375 cPs	-65° to 250°F	**2VFH3**	1
4204™	20g	Gap-Filling, Thermally Resistant, Toughened	0.008 in	4000 cPs	-65° to 250°F	**2VFH4**	1
4471™	20g	Fast Cure, for Porous Surfaces	0.007 in	600 cPs	-65° to 180°F	**4KL92**	1
7452™	0.7 fl. oz. Spray	Acetone-Based	—	0.4 cps	—	**5XB49**	1
Super Glue							
ACCUTOOL	5g	Super Glue with Precision Applicator	0.005 in	100 cPs	-65° to 180°F	**3EHP2**	1
	5g		0.02 in	Gel	-65° to 180°F	**3EHP4**	1
Future Glue	2g	Porous Surfaces, Close-Fitting Parts, Toughened	0.005 in	100 cPs	-65° to 180°F	**3EHP6**	1
	2g	Gap-Filling, Porous Surfaces	0.02 in	Gel	-65° to 180°F	**3EHP7**	1
	5g	Porous Surfaces, Close-Fitting Parts, Toughened	0.005 in	100 cPs	-65° to 180°F	**3EHP8**	1
Super Glue	2g	Multipurpose	0.02 in	Gel	-65° to 180°F	**3EHR1**	3
	2g		0.02 in	Gel	-65° to 180°F	**3EHP5**	12
The Original Super Glue	0.5g		0.004 in	40 cPs	-65° to 180°F	**5DLE1**	5
	2g		0.004 in	40 cPs	-65° to 180°F	**3EHP9**	4
	2g		0.004 in	40 cPs	-65° to 180°F	**3EHP3**	12
	20g		0.004 in	40 cPs	-65° to 180°F	**3EHP1**	1
Vibra-Tite							
320	1 oz.	Wicking, Bonds Plastic	0.002 in	1 to 3 cPs	0° to 200°F	**49CG09**	1
322	1 lb.	Gap Fill, Bonds Plastic	0.008 in	1500 to 2100 cPs	0° to 200°F	**49CG15**	1
330	1 oz.	Metal & Rubber Bonder	0.006 in	123 to 127 cPs	0° to 280°F	**49CG18**	1

Gasket Sealant 13P428

RTV Silicone Sealant 2YE19

732 Multipurpose Sealant 53DA94

SI 596 Adhesive Sealant 1TDX5

RTV Silicone Sealant 2GXY5

Anaerobic-, Poly-, Silicone-, and Solvent-Based Sealants

Anaerobic-Based Flange—Rigid gasketing material remains liquid when exposed to air, but cures to a solid bond when confined between 2 mating flanges. For rigid flanges.

Polyurethane-Based—Sealant won't harden or set, even at very high temperatures.

Silicone-Based—Highly flexible adhesive offers excellent weatherability, fluid and temperature resistance to meet key industry specifications.

Solvent-Based—Generally used as a gasket dressing to fill voids between a cut gasket and the parts being sealed.

Description	Type	Color	Size	Temp. Range	Full Cure	Mfr. Model	Item No.
Anaerobic-Based Flange Sealants							
Loctite							
510™ Anaerobic Flange Sealant	Anaerobic	Red	50mL	-65 to 400°F	4 hr	135474	**12Z232**
		Red	250mL	-65 to 400°F	4 hr	234225	**12Z242**
5127™ Anaerobic Gasket Sealant		Blue	300mL	-65 to 300°F	24 hr	229501	**12Z236**
515™ Anaerobic Flange Sealant	Flexible Seal	Purple	50mL	-65 to 300°F	24 hr	135479	**5E226**
		Purple	300mL	-65 to 300°F	24 hr	88541	**4KM09**
Loctite 518 Flange Sealant	Anaerobic	Red	50mL	-65 to 300°F	4 hr	2096064	**49CR93**
Polyurethane-Based Sealants							
Hylomar							
Gasket Sealant	Adhesive/Sealant	Blue	80mL	-50 to 250°C	Remains Tacky	HUBR02	**13P427**
		Blue	200mL	-50 to 250°C	Remains Tacky	HUBRA01	**13P428**
	Nonsetting NonHardening	Blue	100 g	-58 to 572°F	Remains Tacky	HUB003	**2VUV1**
		Blue	350 g	-58 to 572°F	Remains Tacky	HUB005	**2VUV5**
	Nonsetting NonHardening High Temp	Blue	250mL	-58 to 662°F	Remains Tacky	HUBA02	**2VUV6**
		Blue	350 g	-58 to 662°F	Remains Tacky	HUBA4	**2VUV4**
Silicone-Based Sealants							
Anti-Seize Technology							
AST-RTV™ Silicone Sealant	High Temperature	Red	8 oz	-85 to 600°F	24 hr	27085	**5E144** †
	Multipurpose	Black	8 oz	-85 to 450°F	24 hr	27088	**34D504**
		Clear	8 oz	-75 to 450°F	24 hr	27086	**5E145** †
		Silver	8 oz	-85 to 450°F	24 hr	27089	**4UJ99**
	Multipurpose, Pressurized Can	White	8 oz	-75 to 450°F	24 hr	27084	**4UJ98** †
CRC							
RTV Silicone Sealant	General Purpose	Clear	10.1 oz	-70° to 400°F	24 hr	14073	**13P450**
	High Moisture Resistance Indoor/Outdoor	White	6.5 oz	-76 to 400°F	24 hr	14056	**2YE20**
	High Temp. Low Odor	Red	6.5 oz	-80 to 500°F	24 hr	14059	**2YE21**
	Multipurpose	Clear	6.5 oz	-76 to 400°F	24 hr	14055	**2YE19**
Dow Corning							
732 Multipurpose Sealant	—	Black	10.1 oz	-75° to 350°F	1 day	99179209	**53DA94**
		Clear	3 oz	-75° to 350°F	1 day	3138356	**53DC08**
		White	10.1 oz	-75° to 350°F	1 day	99179246	**53DA96**
736 Heat Resistant Sealant	Multipurpose	Red	300mL	-85° to 500°F°Continuous, 600°F Intermittent	24 hr	99179248	**53DC27**
rtv732 Sealant	—	Clear	10.1 oz	-75° to 350°F	1 day	99179271	**53DA95**
Loctite							
SI 587 Gasket Maker	Low Odor Noncorrosive	Blue	70mL	-75 to 500°F	24 hr	135504	**4KM22** †
		Blue	300mL	-75 to 500°F	24 hr	234590	**4KM23** †
SI 593 Adhesive Sealant	—	Black	80mL	-65 to 450°F	24 hr	193996	**12Z234**
		Black	190mL	-65 to 450°F	24 hr	743519	**12Z252**
SI 596 Adhesive Sealant	High Temp.	Red	80mL	-75 to 600°F	24 hr	135507	**5E223**
		Red	190mL	-75 to 600°F	24 hr	2700556	**1TDX5** ‡
		Red	300mL	-75 to 600°F	24 hr	198817	**4KM26**
SI 598 Gasket Maker	—	Black	300mL	-75 to 625°F	24 hr	135508	**12Z233**
	High Performance	Black	70mL	-75 to 625°F	24 hr	234609	**12Z245**
Superflex Clear Non-Corrosive RTV Adhesive Sealant	Noncorrosive	Clear	300mL	-75 to 500°F	24 hr	234325	**12Z244**
TEROSON SI 9160	High Temp. Industrial Grade	Red	10.15 oz	Up to 475°F	24 hr	475377	**3HFL1**
Permatex							
RTV Silicone Sealant	High Temp.	Red	3 oz	-65 to 650°F	24 hr	81160	**2GXY9**
		Red	7.25 oz	-65 to 650°F	24 hr	81915	**3DPT8**
		Red	7.5 oz	-65 to 650°F	24 hr	85915	**3DPU7**
	Multipurpose	Black	12.9 oz	-75 to 450°F	24 hr	81173	**3DPT1**
		Clear	3 oz	-75 to 400°F	24 hr	80050	**2GXY5**
Sprayon							
RTV Silicone Sealant	Mildew and Water Resistant	Black	8 oz	80 to 450°F	—	S00040000	**6KDW1**
		Blue	8 oz	-80 to 450°F	—	S0003000	**6KDV4**
		Clear	8 oz	80 to 450°F	—	S00010000	**6KDT3**
Surebond							
High-Temp Red RTV Silicone Sealant	Acetoxy Cure	Red	5 gal	-62° to 650°F	24 hr	SB-200 P RE	**48LR99**
		Red	10.3 oz	-62° to 650°F	24 hr	SB-200 T RE	**48LR98**
SB-188 High Temperature Silicone Sealant	Cartridge	Black	10.3 oz	-75° to 500°F	1 day	SB-188 T Black	**4FFF8**
		Clear	10.3 oz	-75° to 500°F	1 day	SB-188 T Clear	**4FFF9**
White Lightning							
RTV Silicone Sealant	Interior/Exterior	Clear	10 oz	-49°F to 302°F	—	WL099110C	**6KHF5**
	Tube	White	10 oz	-49° to 302°F	24 hr	WL099112W	**21C503**
Solvent-Based Sealants							
3M							
Gasket Adhesive	Low Viscosity Neoprene	Yellow	1 qt	-30 to 300°F	24 hr	1300	**2RUE3**
Gasket Sealant	For Rubber and Gaskets	Brown	1 qt	-40 to 180°F	24 hr	847	**5E128**
		Brown	5 oz	-40 to 180°F	24 hr	847	**5E125**
Loctite							
Gasket Sealant	Solvent-Based	Red	1 pt	-65 to 500°F	5 min	1540591	**12Z247**

† USDA approved. ‡ CFIA approved.

1TDX3

49CE92

1FBH5

2PAC7

2GXZ1

5E220

48LR95

Gasket Sealants

Sealants indicated as Low-VOC are low-solvent formulations that release significantly fewer harmful vapors than standard adhesives. 1TDX3 is an odorless, solvent-free adhesive for rigid or flexible flanges. Solvent-based, paste-like sealant 2EMY3 sets slowly to a pliable film and is best suited for nonrigid, vibrating assemblies. Resistant to gasoline and other solvents. General purpose Superflex RTV Silicone Sealants 3KMY7, 3KNK3, and 3KMY8 cure at room temperature to form a tough rubber seal. Will not slump in overhead or vertical applications. Withstand extreme temperature cycling, UV light, and ozone. Cannot be painted.

Description	Type	Color	Size	Temp. Range	Full Cure	Brand	Mfr. Model	Item No.
Form-A-Gasket #2	Slow Dry Flexible Cure	Black	11 oz	-65 to 400°F	24 hr	Permatex	80011	**2GXY1**
Gasket Maker	Instant Sealing Oil-Resistant	Black	190 mL	-75 to 500°F	24 hr	Loctite	743913	**1TDX3**
Gasket Sealant	Silicone	Black	300 mL	500°F	24 hr	Vibra-Tite	99330	**49CJ43**
		Copper	300 mL	700°F	24 hr	Vibra-Tite	99230	**49CE92**
		Gray	300 mL	500°F	24 hr	Vibra-Tite	99930	**49CJ60**
Gasket Sealant, Low-VOC	Oil-Resistant	Black	2.8 oz	-40 to 400°F	24 hr	DAP	00754	**3WEZ5**
Gasket Sealant, Solvent-Based	Slow Dry Flexible Cure	Black	7 oz	-65F to 400°F	Remains Tacky	Loctite	198819	**2EMY3**
RTV Silicone Gasket Maker, Low-VOC	High Temp. Sensor-Safe	Red	3 oz	-70 to 650°F	24 hr	Pro Seal	80726	**1FBH5**
		Red	8 oz	-70 to 650°F	24 hr	Pro Seal	80729	**3HHH6**
		Red	11.1 oz	-80 to 700°F	24 hr	Pro Seal	80728	**1FBH9**
	Oil and Water-Resistant Noncorrosive	Gray	70 mL	-75 to 625°F	24 hr	Loctite	135275	**2PAC7**
	Oil-Resistant	Black	8 oz	-75 to 500°F	24 hr	Pro Seal	80049	**3HHH5**
		Black	11.1 oz	-75 to 500°F	24 hr	Pro Seal	80047	**1FBH8**
RTV Silicone Sealant	High Temp.	Red	11 oz	-65 to 650°F	24 hr	Permatex	81409	**2GXZ1**
	Increased Oil Resistance	Black	3.35 oz	-65 to 400°F	24 hr	Permatex	82180	**2GXZ4**
	Multipurpose	Black	10 oz	400°F	24 hr	White Lightning	W11125010	**48XW77**
RTV Silicone Sealant, Low-VOC	Waterproof	Clear	3 oz	-75 to 500°F	24 hr	Pro Seal	80066	**1FBH7**
		Clear	11.1 oz	-75 to 500°F	24 hr	Pro Seal	80067	**1FBJ1**
RTV Silicone Sealant, Superflex®, Low-VOC	Shrink-Resistant for Precut Gaskets	Blue	80 mL	-65 to 500°F	24 hr	Loctite	270642	**5E220**
		Blue	300 mL	-65 to 500°F	24 hr	Loctite	270639	**5E221**
RTV Silicone Sealant, Superflex RTV	General Purpose	Clear	80 mL	-65 to 450°F	24 hr	Loctite	160809	**3KMY7**
		Clear	190 mL	-65 to 450°F	24 hr	Loctite	743915	**3KNK3**
RTV Silicone Sealant, Superflex RTV, 595		Clear	300 mL	-65 to 450°F	24 hr	Loctite	193999	**3KMY8**
RTV Silicone Sealant, Thread & Gasket, Low-VOC	Acetoxy Cure	Black	10.3 oz	-62 to - 350°F	24 hr	Surebond	SB-160 T BL	**48LR95**
		Clear	5 gal	-62 to - 350°F	24 hr	Surebond	SB-160 P CL	**48LR96**
		Gray	10.3 oz	-62 to - 350°F	24 hr	Surebond	SB-160 T AL	**48LR93**
RTV Silicone Sealant, Ultra Black®, Low-VOC	Oil-Resistant	Black	3 oz	-75 to 500°F	24 hr	Pro Seal	80046	**1FBH4**

Gasket/Paint Remover

Solvent-based cleaner 5YK56 removes baked-on fiber gaskets, gasket adhesives, and sealants. Excellent on paint and varnish. Contains no methylene chloride. Blistered paint can be scraped off or flushed away with water, Use on brick, tile, steel, brass, chrome, porcelain, and other surfaces.

Description	Mfr. Model	Item No.
Gasket Remover	03017	**5YK56**

A.
Weldwood Nonflammable
2NJ92

I.
Pliobond 25
40P231

J.
3M Fastbond 30-NF
3XH48

L.
Loctite
MR 5414
12Z248

P.
Weldwood
Multipurpose
2PE38

Key	Description	VOC Levels Meet SCAQMD Requirements	Size	Brand	Item No.
Contact Cements					
A	Weldwood Nonflammable	Meets SCAQMD Requirements	1 qt.	DAP	**2NJ92**
		Meets SCAQMD Requirements	1 gal.	DAP	**4UK99**
B	Weldwood Original	No	1 qt.	DAP	**5E094**
		No	1 gal.	DAP	**5E095**
C	Weldwood Bottled	No	3 oz.	DAP	**5E096**
D	Weldwood Gel	No	1 qt.	DAP	**10L520**
E	DAP Landau Top & Trim High Heat Resistant	No	1 gal.	DAP	**29RU98**
		No	5 gal.	DAP	**29RU99**
		No	5 gal.	DAP	**29RV01**
F	Acrylic Contact Cement	No	1 oz.	Super Glue	**3EHR7**
G	3M Neoprene 10	Does Not Contain Methylene Chloride	1 qt.	3M	**2RUF2**
H	3M Neoprene High Performance 1357	Does Not Contain Methylene Chloride	5 oz.	3M	**5E127**
		Does Not Contain Methylene Chloride	1 pt. Can	3M	**2RUF3**
		Does Not Contain Methylene Chloride	1 qt.	3M	**5E130**
I	Pliobond 25, Special Purpose Adhesive, 25LV	No	1 qt.	Pliobond	**40P231**
		No	1 gal.	Pliobond	**40P232**
		No	½ pt.	Pliobond	**40P233**
		No	3 oz.	Pliobond	**40P234**
	Pliobond 35, Special Purpose Adhesive, 35LV	No	1 qt.	Pliobond	**40P235**
		No	1 gal.	Pliobond	**40P236**
		No	½ pt.	Pliobond	**40P237**
J	3M Fastbond 30-NF, Green	Does Not Contain Methylene Chloride, Meets SCAQMD Requirements	1 qt.	3M	**3XH48** †
		Does Not Contain Methylene Chloride, Meets SCAQMD Requirements	5 gal.	3M	**2JBJ3** †
	3M Fastbond 30-NF, Neutral	Does Not Contain Methylene Chloride, Meets SCAQMD Requirements	1 qt.	3M	**3XH47** †
		Does Not Contain Methylene Chloride, Meets SCAQMD Requirements	1 gal.	3M	**2JBR1** †
		Does Not Contain Methylene Chloride, Meets SCAQMD Requirements	5 gal.	3M	**2JBL8** †
K	3M Fastbond Contact Cement 85780	Does Not Contain Methylene Chloride	5 gal	3M	**2JCC8**
L	Loctite MR 5414 Contact Cement	No	5 fl. oz.	Loctite	**12Z248**
Flooring Adhesives					
M	DAP 4000 Subfloor VOC, Subfloor and Deck	Meets SCAQMD Requirements	10.3 oz	DAP	**2PE27**
		Meets SCAQMD Requirements	28 oz	DAP	**2PE28**
N	DAP 7000 Subfloor and Deck	No	28 oz	DAP	**2KVJ3**
O	DAP 4000 Construction Adhesive	No	10.3 oz	DAP	**2KVJ7**
		No	28 oz	DAP	**2KVJ8**
P	Weldwood Multipurpose	No	1 gal	DAP	**2PE38** †‡
		No	1 qt	DAP	**48TR38**
Q	Weldwood Sheet Floor	Meets SCAQMD Requirements	1 gal	DAP	**2PE45** †‡
R	Weldwood Ceramic Tile	No	1 gal	DAP	**2PE47** †‡
S	Weldwood Wood Floor	No	1 gal	DAP	**2PE43** †‡

† Nonflammable. ‡ Water-resistant.

Contact Construction Adhesives

CONTACT CEMENTS

A. Weldwood Nonflammable—High solids polychloroprene-based, waterborne contact adhesive.

B. Weldwood Original—A neoprene rubber that forms a permanent bond. For use with all laminate products. Adheres to wood, masonry, and most metals with no clamping required. High heat resistance.

C. Weldwood Bottled—Strong cement bonds on contact.

D. Weldwood Gel—Easy-to-use gel does not drip. No-mess formula is ideal for vertical and overhead surfaces. Easy spread for excellent coverage.

E. DAP Landau Top & Trim High Heat-Resistant—Automotive interior cement adheres headliners, fabric, and other materials during refurbishment. Apply with hot or cold spray equipment.

F. Acrylic Contact Cement—Solvent-based single-component adhesive remains flexible after cure. Dries clear to light yellow in 30 min. Full cure in 24 hr. Use on tile, rubber, wood, metal, laminates, and most plastics.

G. 3M Neoprene Contact Adhesive 10—Air-drying neoprene adhesive bonds immediately and permanently upon contact pressure without clamping or texturizing.

H. 3M Neoprene High-Performance Contact Adhesive 1357—Neoprene-based brush- or spray-coat adhesive bonds metal, wood, rubber (except EPDM), urethane foam, acrylic, and ABS. Meet Fed. Spec. MMM-A-121. 5E127 and 5E130 also meet MIL-A-21366A.

I. Pliobond 25/35 Nitrile Special Purpose Adhesive—All-purpose thermosetting contact adhesives have pigment-reinforced synthetic rubber and synthetic plastic resin solids; provide a permanent bond that won't get brittle with age.

J. 3M Fastbond Contact Adhesive 30-NF—High water-dispersed sprayable contact adhesive for high immediate bond strength and long bonding range. Green adhesive dries to green. Neutral dries to clear. Nonflammable in wet state. Post-formable and heat resistant.

K. 3M Fastbond Pressure Sensitive Adhesive 4224NF—Water-based carpet adhesive is plasticizer resistant and has an aggressive tack. Repositionable for adhering carpet matting tiles to the floor. For use with glass, paper, steel, galvanized steel, bare and clad aluminum, fabric, and foam.

L. Loctite MR 5414 Black Contact Adhesive—Professional, solvent-based adhesive with neoprene blends in with black-colored fabric, rubber, weatherstripping, and other porous materials. Withstands temperature extremes and is resistant to gasoline, kerosene, and other solvents. Fast drying and waterproof. Allows repositioning of the parts after initial contact.

FLOORING ADHESIVES

M. DAP 4000 Subfloor VOC, Subfloor and Deck—Bonds wet, frozen, and treated lumber.

N. DAP 7000 Subfloor and Deck—Solvent-based formulation reduces nailing requirements, floor squeaks, and nail pops. Easy gunning.

O. DAP 4000 Subfloor and Deck—Forms a permanent bond on wet, frozen, and treated lumber. Reduces nailing requirements.

P. Weldwood Multipurpose—Trowel-grade adhesive bonds many types of floor coverings. Formula provides greater shrink resistance and allows for easy repositioning during installation. Water-resistant, low-odor adhesive is nonflammable and cleans up easily with water. Ideal for Interior use.

Q. Weldwood Sheet Floor—Trowel-grade, latex-based formula is for installing synthetic, felt-backed resilient sheet goods.

R. Weldwood Ceramic Tile—Trowel-grade, latex-based adhesive for installing ceramic and mosaic tile on floors, walls, and countertops.

S. Weldwood Wood Floor—High solids, trowel-grade synthetic adhesive for installation of prefinished wood flooring.

Beats The Nail All-Purpose Adhesive 5E089

DynaGrip Latex Cove Base Adhesives 2PE34

DynaGrip Latex Tub & Shower Wall Adhesive 2PE31

SB-10 PAVER BOND Adhesive 4FFG3

SB-12 METALBOND Sealant Adhesive 4AZF7

WeldWood Latex Cove Base Adhesive 2PE35

Construction Adhesives

Description	Applications	VOC Levels Meet SCAQMD Requirements	Size	Item No.	
DAP					
Construction Adhesives					
Beats The Nail All-Purpose	For general construction, remodeling, maintenance, and repair projects	No	10.3 oz	**5E089**	
		No	28 oz	**5E090**	
Beats The Nail Latex All-Purpose		Meets SCAQMD Requirements	28 oz	**2NJ90**	*
DynaGrip Heavy-Duty Adhesives	For wet, frozen, treated and engineered lumber, particleboard, OSB, ceramic, concrete, most metals, and brick	Meets SCAQMD Requirements	9 oz	**1EJX9**	†
Dynagrip Heavy-Duty Max	For Subfloor & Deck, Paneling, Mirror, Countertop, Tub Surrounds, Landscape Block	Meets SCAQMD Requirements	9.0 oz	**53PZ93**	
Cove Base Adhesives					
DynaGrip Latex Cove Base Adhesives	For drywall, plaster, paint, wallpaper, paneling, and ceramic tile.	Meets SCAQMD Requirements	10.3 oz	**2PE34**	†
WeldWood Latex Cove Base Adhesives		Meets SCAQMD Requirements	1 gal	**2PE36**	†
		Meets SCAQMD Requirements	1 qt	**2PE35**	†
Paneling and Foam Adhesive					
DynaGrip Latex Paneling & Foam Adhesive	For bonding foamboard insulation and polystyrene to most common building materials including wood, drywall, ceramic, and metal.	Meets SCAQMD Requirements	10.3 oz	**2PE30**	*
Specialty Adhesives					
FRP Adhesive	For Plywood, Drywall, Concrete, Plaster	No	1 gal	**2PE41**	*
		No	4 gal	**48TR35**	*
Tub and Shower Wall Adhesive					
DynaGrip Latex Tub & Shower Wall Adhesive	For bonding polystyrene, plastics, and fiberglass to most common wall surfaces, including drywall, greenboard, and plaster.	Meets SCAQMD Requirements	10.3 oz	**2PE31**	
Eclectic					
Construction Adhesives					
E6000	For Wood, Metal, Glass, Fiberglass, Ceramics, Masonry, Concrete, Asphalt, Leather, Rubber, PVC, Neoprene, Vinyl and Plastics	Meets SCAQMD Requirements	10.2 oz	**49LW90**	
E6100		Meets SCAQMD Requirements	10.2 oz	**49LW92**	
Gorilla					
Construction Adhesives					
Heavy Duty Construction Adhesive	—	No	9 oz	**49UU20**	
Liquid Nails					
Construction Adhesives					
Construction Adhesive, Beige Tan	For Plywood, Paneling, Molding, Furring Strips, Ceramic Fixtures, Corkboard, Hardboard, Drywall	No	10 oz	**444D78**	
	For Lumber and Treated Lumber, Engineered Lumber, Plywood, Particleboard, Waferboard, ABS	No	10 oz	**444D79**	
Construction Adhesive, Gray	For All Surfaces Except Polyethylene and Polypropylene	No	9 oz	**444D87**	
Construction Adhesive, Off White	For Paneling, Corkboard, Molding, Foamback Tub Surrounds, Drywall, Furring Strips, Plywood, Hardboard, Masonry, Concrete, Foamboard, Ceramic Tiles, Foamular Rigid Foam Insulation, Insulpink Foam Insulation Board, Medium Density Fiberboard	No	10 oz	**444D81**	
	For Drywall, Ceramic Tiles, Cement Backerboards, Plywood, Greenboard, Hardboard	No	10 oz	**444D85**	
Construction Adhesive, Tan	For Plywood and Waferboard, Treated Lumber, Drywall, Tileboard, Brick Veneers, Exterior Foamboard	No	10 oz	**444D82**	
	For Plywood, Particleboard, Foamboard, Waferboard, Treated Lumber, Imitation Stone, Ceiling Tiles, Drywall, Tileboard	No	10 oz	**444D84**	
Construction Adhesive, White	For Wall Tile, House Numbers, Concrete, Wood, Drywall Patches, Metal, Stone, Ceramics, Aluminum, Shelving, Molding, Brick Veneer, Aluminum, Towel Racks, Molding, Carpeting	No	4 oz	**444D80**	
	For All Surfaces Except Polyethylene and Polypropylene	No	5 oz	**444D86**	
	For Plywood, Lumber, Particleboard, Cementboard,Treated Lumber, Composite Lumber, ABS	No	10 oz	**444D83**	
Glue, Clear	For Wood,Steel, Porcelain, Glass, Polystyrene, ABS, Fiberglass, Fabric, Concrete, Aluminum, Rubber, Carpeting, Paintyer Surfaces, Cardboard, Foam, Stone, Marble	No	0.75 oz	**444D88**	
	For Wood, Metal, Glass, Fiberglass, Ceramics, Masonry, Concrete, Asphalt, Leather, Rubber, PVC, Neoprene, Vinyl and Plastics	No	2.5 oz	**444D77**	
Loctite					
Construction Adhesives					
Express Power Grab	—	Meets SCAQMD Requirements	300 mL	**53VA60**	
Surebond					
Brick and Concrete Adhesives					
SB-10 PAVER BOND Adhesive	For concrete interlocking, clay and roof deck pavers, ceramic tile, natural stone slabs, retaining wall block.	Meets SCAQMD Requirements	10 oz	**4FFG3**	†
Metal Adhesives					
SB-12 METALBOND Sealant Adhesive	For steel, aluminum, painted metals, galvanized metals, plumbing, and HVAC.	No	10.3 oz	**4AZF7**	†

***** Nonflammable. † Water-resistant.***

Multipurpose/ Construction Sealants

3M 760 Hybrid Sealant—Thick paste bonds to glass, metal, wood, concrete, and ceramic. UV resistant.

3M Polyurethane Construction Sealant 525—Adheres to expansion joints, metal, wood, aluminum and PVC joinery seams, clay and concrete roof tiles.

DAP Silicone Plus Premium Sealant—Seals wood, ceramic, and horizontal cracks, gaps and holes.

DAP Window, Door, and Exterior Sealant—Adheres to wood, aluminum, vinyl, plaster, drywall, masonry, stone, brick, glass, and concrete.

Dow Corning 700 Industrial Grade & 732 Multipurpose Sealants—Bonds concrete, glass, masonry, metal, and plastic.

GE SCS Silicone Contractors Sealant—Adheres to glass, plastic, granite, and sheet metal.

GE Contractors SCS1000 Silicone Construction Sealant—For glass, metal, glazed surfaces, and many plastics.

GE Silicone II Gasket Sealant—Adheres to glass, metal, plastic, fiberglass, granite, concrete, and wood.

4KM87

GE Silicone II Paintable Sealant—Use on siding, trim, moldings, patios, concrete, fiberglass, plastic, metal, and wood.

Loctite 5510 Sealant—High strength adhesive paste is used for elastic bonding and sealing on various substrates.

Loctite UR 7001 Urethane Sealant—Adheres to concrete, masonry, glass, plastics, wood, and aluminum.

Surebond SB-180 Sealant—Typical applications include sealing and glazing, plumbing, interior and exterior. Cures to the touch in an hour.

Surebond SB-170 Multi-Purpose Silicone Sealant—Adheres to hard-to-stick plastics, wood, PVC, vinyl, metal, glass, and painted surfaces.

Surebond SB-188 High-Temperature Silicone Sealant—Bonds to ceramic, glass, metal, plastic rubber, wood, fiberglass.

Description	Sealant Base	Begins to Harden	Full Cure	Application Temp. Range	Sealant Container	Size	▶CHOOSE: Color	Item No.
3M								
Hybrid Sealant/Adhesive								
760 Hybrid Sealant/Adhesive	Hybrid	30 min	1 day	40° to 95°F	Cartridge	290 mL	Black	**49Z638**
	Hybrid	30 min	1 day	40° to 95°F	Cartridge	290 mL	Gray	**49Z639**
	Hybrid	30 min	1 day	40° to 95°F	Cartridge	290 mL	White	**49Z640**
Construction Sealant								
Polyurethane Construction Sealant 525	Polyurethane	150 min	1 day	40° to 95°F	Cartridge	10.5 oz	Gray	**4YDF7**
DAP								
Construction Sealant								
SILICONE PLUS Premium Kitchen & Bath	Silicone	15 min	1 day	40° to 120°F	Cartridge	10.8 oz	White	**29RV03**
Window, Door, and Exterior Sealant	Acrylic	20 min	1 day	20° to 120°F	Cartridge	9 oz	Clear	**29RV17**
	Acrylic	20 min	1 day	20° to 120°F	Cartridge	9 oz	White	**29RV16**
Dow Corning								
Construction Sealant								
700 Industrial Grade Silicone Sealant	Silicone	25 min	1 day	-20° to 122°F	Cartridge	10.1 oz	Aluminum Gray	**53DA83**
732 Multipurpose RTV Sealant	Silicone	20 min	1 day	-20° to 122°F	Cartridge	10.1 oz	Aluminum Gray	**53DA93**
700 Industrial Grade Silicone Sealant	Silicone	25 min	1 day	-20° to 122°F	Cartridge	10.1 oz	Clear	**53DA85**
GE								
Construction Sealant								
Silicone II Concrete and Masonry Sealant	Silicone	30 min	1 day	40° to 100°F	Cartridge	10.1 oz	Light Gray	**22N772**
SCS SILICONE Contractors Sealant	Silicone	30 min	2 day	—	Cartridge	10.1 oz	Aluminum Gray, Black	**D3782**
Contractors SCS1000 Silicone Construction Sealant	Silicone	30 min	2 day	40° to 120°F	Cartridge	10.1 oz	Clear, White	**D0282**
Silicone II Gasket Sealant	—	30 min	—	40° to 100°F	—	2.8 oz	Black	**3LA53**
Silicone II Paintable Sealant	Silicone	30 min	1 day	40° to 100°F	Cartridge	10.1 oz	White	**3LA52**
Loctite								
Hybrid Sealant/Adhesive								
5510™ Adhesive/ Sealant	Silane Modified Polymer	24 hr	7 day	-40° to 200°F	Cartridge	300mL Cartridge	White	**6JZV3**
	Silane Modified Polymer	24 hr	7 day	-40° to 200°F	Cartridge	300mL Cartridge	Gray	**6JZV4**
	Silane Modified Polymer	24 hr	7 day	-40° to 200°F	Cartridge	300mL Cartridge	Black	**6JZV5**
Construction Sealant								
UR 7001 Urethane Sealant	Urethane	—	7 day	-40° to 180°F	Cartridge	10.2 oz	Gray	**4KM87**
Surebond								
Hybrid Sealant/Adhesive								
SB-180 RTV Silicone Sealant/ Adhesive	—	—	24 hr	—	—	2.8 oz	Clear	**48LR87**
	—	—	24 hr	—	—	10.3 oz	Clear	**48LR86**
	—	—	24 hr	—	—	10.3 oz	Gray	**48LR88**
	—	—	24 hr	—	—	10.3 oz	White	**48LR89**
	—	—	24 hr	—	—	10.3 oz	Black	**48LR90**
Construction Sealant								
SB-170 Multi-Purpose Silicone Sealant	—	30 min	24 hr	—	—	10.3 oz	Clear	**48LR97**
SB-188 High Temperature Silicone Sealant	Silicone	30 min	1 day	-20° to 122°F	Cartridge	10.3 oz	Black, Clear	**D9104**

Roof and Gutter Sealants

Roof Asphalt Filler and Sealer—Forms watertight seal on wood, masonry, fiberglass, metal, and asphalt.

Butyl-Flex Gutter and Flashing Sealant—Bonds concrete, metal, plastic, rubber, and wood. Resists weather, extreme temperatures, and shock.

Polyurethane Sealants—Provide superior adhesion to wood, metal, concrete, stone, aluminum, masonry, vinyl, fiberglass, plastic, and brick. Meet ASTM C920 Class 35.

Silicone II Gutter and Flashing—Silicone sealant adheres to most aluminum, stainless steel, wood, masonry, brick, concrete, painted surfaces, vinyl, and plastic.

Silicone II Aluminum and Metal—Adheres to most aluminum, stainless steel, masonry, brick, concrete, granite, and metal. Resists extreme heat, UV rays, and freezing temperatures.

Geocel 4500 Roof Bonding Sealant—Bonds to many common substrates including asphalt shingles, steel, concrete, EPDM, primed TPO, primed PVC, Hypalon (black only), metal, and wood.

Elastomeric Acrylic Sealant—Use on concrete, drywall, glass, many plastics, masonry, metal, porcelain, stucco, vinyl, and wood.

Polyurethane Sealant 20VK39

4500 Roof Bonding 32ZT70

Description	Sealant Base	Begins to Harden	Full Cure	Application Temp. Range	Sealant Container	Color	Item No.
DAP							
Roof Asphalt Filler & Sealer	Hybrid	30 min	3 day	40° to 120°F	Cartridge	Black	**5UFP4**
Butyl-Flex Gutter and Flashing Sealant	Hybrid	2 hr	1 day	40°F	Cartridge	White	**3WEU1**
	Hybrid	2 hr	1 day	40°F	Cartridge	Aluminum Gray	**3WEU6**
Polyurethane Sealant	Polyurethane	30 min	7 day	40° to 100°F	Cartridge	White	**20VK37**
Polyurethane Sealant, Concrete & Masonry	Polyurethane	30 min	7 day	40° to 100°F	Cartridge	Gray	**20VK38**
Polyurethane Sealant, Roof & Flashing	Polyurethane	30 min	7 day	40° to 100°F	Cartridge	Black	**20VK39**
GE							
Silicone II, Gutter and Flashing Waterproof Sealant	Silicone	30 min	1 day	40° to 100°F	Cartridge	Clear	**22N771**
Silicone II, Aluminum and Metal Sealant	Silicone	30 min	1 day	40° to 100°F	Tube	Metallic Gray	**22N774**
	Silicone	30 min	1 day	40° to 100°F	Cartridge	Metallic Gray	**22N773**
Geocel							
4500 Roof Bonding Sealant	Hybrid	40 min	1 day	30° to 120°F	Cartridge	White	**32ZT70**
	Hybrid	90 min	1 day	30° to 120°F	Cartridge	Black	**32ZT71**
White Lightning							
Elastomeric Acrylic Sealant	Acrylic	10 min	7 day	40° to 180°F	Cartridge	Gray	**34FW68**

Window/Door Caulks, Sealants, and Glazes

ACRYLIC

A. Concrete Caulk—Use with mortar, and masonry. Paintable; cleans easily with water. Indoor/outdoor use.

B. ALEX Caulk—Adheres to wood, plaster, drywall, and masonry.

C. DYNAFLEX 230 Elastomeric Sealant—For crown molding and siding. Mildew-resistant when cured.

D. Window Glazing Caulk—For face glazing wood or metal frames. Weathertight seal.

E. MAX EXTRA Siliconized Acrylic Caulk—Mildew-resistant, paintable caulk for sealing interior and exterior windows, replacing window panes, and sealing cracks in the doorjamb or window seal.

BUTYL

F. SB-140 Skylight and Window Butyl Sealant—Flexible, one-part sealant is easy to remove and excellent for resealing and repairing leaks. Stays soft and malleable. Fast skinning and nonstaining.

HYBRID

G. ALEX PLUS Caulk—Mildew-resistant and flexible.

H. Flexible Clear Sealant—Weatherproof and mildew- and UV-resistant. Adheres to concrete, glass, brick, wood, metal, and fiberglass.

I. ALEX Fast Dry Caulk—Mildew-resistant. Paintable in 30 min.

J. Side Winder Siding and Window Sealant—Adheres to vinyl, fiber, cement, aluminum, and wood. Permanently flexible. No shrinkage, low odor. Indoor/outdoor use.

K. ALEX PLUS Sealant, Aerosol Can—Aerosol can provides excellent control without a caulk gun, for a smooth, consistent bead and no overflow.

POLYURETHANE

L. Polyurethane Sealant 540—One-part sealant cures fast with a joint movement capability ±25%. Nonstaining formula does not require mixing. Ideal for vertical and horizontal expansion joints, concrete control joints, precast and tilt-up construction, masonry expansion joints, aluminum curtain walls and storefronts, and submerged applications.

SILICONE

Flexible silicone provides a long-lasting, waterproof seal that is low odor and resists shrinking and cracking. It remains flexible after being dried or cured and can withstand higher temperatures.

M. 100% Silicone Window and Door Sealant—Seal resists cracking, crumbling, and chalking. Can be used to make gaskets. Mildew resistant. Indoor/outdoor use.

N. Silicone Plus Window and Door Sealant—Won't shrink or crack. Adheres to PVC, vinyl siding, and painted wood. Indoor/outdoor use.

O. Silicone Premium Kitchen and Bath Sealant—For use on ceramic tile, glass, porcelain, and PVC in kitchen and bath applications.

P. Silicone I Sealant—Mold- and mildew-resistant sealant accommodates 25% movement in extension and compression with excellent recovery when joints shift. Low sag or slump allows application to overhead surfaces. Resistant to sun and freezing temperatures. Adheres to wood, metal, vinyl siding, drywall/plaster, glass, and plastic.

Q. Supreme Paintable Silicone—Fast-acting caulk can be painted with a brush after 30 min. and exposed to water in as little as 30 min.

R. Silicone I Window and Door Sealant—Adheres to most wood, metal, vinyl siding, drywall, plaster, glass, and plastic. Use on doors, siding, trim, molding, baseboards, and vents. Also use around wire, pipes, and other attic/basement applications. FDA approved.

S. Silicone II Window and Door Sealant—Twice the stretch of Silicone I. Withstands extreme joint movement.

T. Silicone II Window and Door Sealant—Stretches and compresses with joint movement.

A. Concrete Caulk 25F526

F. SB-140 Skylight and Window Butyl Sealant 5PWD6

I. ALEX, Fast Dry Caulk 2KVG6

L. Polyurethane Sealant 540 29UJ52

Key	Description	Begins to Harden	Performance Temp. Range	Size	▶CHOOSE: Color	Item No.	
Acrylic							
DAP							
A	Concrete Caulk	15 min	-30° to 150°F	10.1 oz	Gray	**25F526**	
B	ALEX® Caulk	10 min	-20° to 180°F	10.1 oz	White	**5E079**	†‡
C	Dynaflex 230® Elastomeric Sealant	30 min	-30° to 180°F	10.1 oz	Black, Cedar Tan, Dark Bronze, Brown, Almond, Clear, White, Gray	**D0258**	†‡
D	Window Glazing Caulk	1 hr	-20° to 160°F	10.1 oz	White	**5UFR5**	†‡
GE							
E	MAX EXTRA, Siliconized Acrylic Caulk	5 min	-15° to 158°F	10.1 oz	White, Clear	**D0268**	†‡
Butyl							
SUREBOND							
F	SB-140 Skylight and Window Sealant	1 hr	-20° to 200°F	10.3 oz	White	**5PWD6**	
Hybrid							
DAP							
G	ALEX PLUS® Caulk	10 min	40° to 100°F	5.5 oz	White	**3WEW3**	†‡
	ALEX PLUS, Acrylic Latex Caulk, with Silicone	10 min	-20° to 180°F	10.1 oz	Crystal Clear, White	**D0257**	†‡
H	Flexible Clear Sealant	10 min	-30° to 200°F	10.1 oz	Clear	**5UFP5**	
I	ALEX, Fast Dry® Caulk	15 min	-20° to 180°F	10.1 oz	White	**2KVG6**	†‡
J	Side Winder Siding and Window Sealant	30 min	-35° to 350°F	10.1 oz	Crystal Clear	**2PE48**	†
		30 min	-65° to 350°F	10.1 oz	White	**2PE49**	†
K	ALEX PLUS® Sealant	20 min	-20° to 180°F	16 oz	White	**2LYW2**	†‡
GE							
K	MAX, Window and Door Caulk	30 min	-15° to 158°F	10.1 oz	White	**3KA71**	†‡
Polyurethane							
3M							
L	Polyurethane Sealant 540	90 min	-40° to 194°F	10.5 oz	White	**29UJ52**	
Silicone							
DAP							
M	100% Silicone Window and Door Sealant	20 min	-40° to 400°F	2.8 oz	Clear	**D0262**	
		20 min	-40° to 400°F	9.8 oz	Aluminum Gray, Almond, Clear, White, Bronze	**D0262**	
		20 min	-40° to 140°F	9.8 oz	Black	**D0262**	
N	Silicone Plus™ Window and Door Sealant	15 min	-40° to 300°F	10.8 oz	Clear	**2NGJ2**	
O	Silicone Premium Kitchen and Bath Sealant	15 min	-40° to 300°F	10.8 oz	White	**29RV05**	
GE							
P	Silicone I, Sealant	30 min	-60° to 400°F	2.8 oz	Clear	**22N769**	
Q	Supreme Paintable Silicone	20 min	-30° to 150°F	10.1 oz	White	**11N102**	†
R	Silicone I Window and Door Sealant	30 min	-60° to 400°F	10.1 oz	Black, Bronze, Clear, White	**D0269**	
S	Silicone II, Window and Door Sealant	30 min	-60° to 400°F	10.1 oz	White, Clear	**D9105**	
T		30 min	-60° to 400°F	2.8 oz	Clear	**22N763**	
		30 min	-60° to 400°F	10.1 oz	Black, Brown, Light Gray, Almond, Clear	**D0271**	

† Paintable. ‡ Water cleanup.

Kitchen, Bath & Plumbing 29RV15

Kitchen & Bath K4259

Kwik Seal 4MY71

DOWSIL K4720

RTV 786 K4257

Silicone II 22N770

444D75

Kitchen and Bathroom Sealants and Caulks

Note: See related caulk guns on page 2234.

DAP

100% Silicone Sealant

One-component, acetoxy cure material is ideal for caulking and sealing. Provides a durable, watertight seal that won't crack or shrink. It offers long-lasting flexibility and is safe for incidental food contact. Cured sealant is mildew resistant.

Kitchen, Bath, and Plumbing High-Performance Sealant

Kwik Dry formula is paintable and water-resistant in ½ hr. Waterproof seal with Microban protects against mold and mildew up to 10 yr.

Kitchen and Bath Sealant with Microban

Antimicrobial protection fights mold, mildew, odors, and stains. Kwik Seal Plus formula provides a watertight seal with maximum adhesion and flexibility.

Premium Kitchen and Bath Sealant

Low-odor silicone formula is water-resistant in ½ hr. Forms a flexible, waterproof seal with excellent adhesion.

Kwik Seal

Acrylic formula is mold- and mildew-resistant. Dries tack-free in 15 min. Resists cracking, crumbling, and shrinking.

Latex caulk and sealant form a mildew-resistant, watertight seal. Water cleanup.

Phenoseal Adhesive Caulk

Mildew-resistant and watertight seal. Water cleanup.

DOW CORNING

DOWSIL Silicone Base Clear Cartridge Sealant is for use on concrete, glass, masonry, metal, plastic, and wood. DOWSIL 786 RTV Sealant is designed to seal nonporous surfaces around showers, tubs, sinks, and plumbing fixtures where conditions of high humidity and temperature extremes exist.

GE

Waterproof sealants won't shrink or crack over time.

Silicone II Sealant

3LA50, 4UH01, 3LA48, and 3LA49 are low odor and mildew resistant. Sealant remains permanently flexible. 22N770 is a flexible, mold- and mildew-resistant formula that accommodates 25% movement in extension and compression with excellent recovery. Useful for horizontal and vertical overhead surfaces. 5PWD3 and 5PWD4 feature low VOC.

Silicone II Supreme Sealant

Sealant is permanently flexible, won't corrode metals, is water-ready in ½ hr., and resists mold up to 10 yr. Mildew- and UV-resistant.

Silicone I Sealant

Keeps water away from kitchen and bath applications. Flexible formula is mold and mildew resistant. Accommodates 25% movement in extension and compression with excellent recovery when joints shift. Applies to horizontal or vertical overhead surfaces. For use on laminate, porcelain, glass, metal, plastic, granite, wood, and most ceramic tile.

Supreme Paintable Sealant

Modified silicone formula is ready for paint in ½ hr. Not sticky or stringy. Stays mold- and mildew-free for up to 10 yr.

HOMAX

Extra-wide caulk strip is a preshaped, flexible, peel-and-stick strip that seals out moisture that can damage walls by eliminating the gap where dirt can accumulate.

Description	Begins to Harden	Performance Temp. Range	Size	Sealant Container	▶CHOOSE: Color	Item No.	
DAP							
100% Silicone Sealant	10 min	-40° to 400°F	9.8 oz	Cartridge	Clear	**D0277**	*
Kitchen, Bath and Plumbing High Performance Sealant	20 min	-65° to 200°F	9 oz	Cartridge	White	**29RV14**	
	20 min	-65° to 200°F	9 oz	Cartridge	Clear	**29RV15**	
Kitchen & Bath Sealant with Microban	10 min	40° to 100°F	10.1 oz	Cartridge	White, Clear, Biscuit	**K4260**	
	10 min	40° to 100°F	5.5 oz	Tube	White, Biscuit	**K4259**	
	10 min	-30° to 180°F	5.5 oz	Tube	Clear		
KWIK SEAL Kitchen & Bath Adhesive Caulk	10 min	-20° to 180°F	10.1 oz	Cartridge	Clear	**25F525**	
	10 min	-20° to 150°F	10.1 oz	Cartridge	White	**4MY71**	*
	10 min	-20° to 150°F	5.5 oz	Tube	White, Almond	**D9107**	*
	10 min	-20° to 180°F	5.5 oz	Tube	Clear		*
Phenoseal Latex Adhesive Caulk	10 min	-20° to 100°F	10 oz	Cartridge	Almond, Metallic Gray, Black	**D0281**	*
	10 min	-20° to 180°F	10 oz	Cartridge	White, Clear		*
Premium Kitchen and Bath Sealant	15 min	-65° to 350°F	10.1 oz	Cartridge	Clear	**29RV06**	
	15 min	-65° to 350°F	10.1 oz	Cartridge	Almond	**29RV07**	
Dow Corning							
DOWSIL 786, RTV Sealant	20 min	-75° to 350°F	10.1 oz	Cartridge	Clear, Translucent White	**K4257**	
DOWSIL Glazing Sealant	45 min	-75° to 350°F	10.3 oz	Cartridge	Aluminum Gray, Black, Bronze, Clear, Transparent White, White	**K4214**	
DOWSIL Hi-Temp Sealant Red	25 min	-75° to 350°F	10.3 oz	Cartridge	Red	**K4720**	
DOWSIL HVAC/R Sealant	25 min	-75° to 350°F	10.3 oz	Cartridge	Aluminum Gray, Clear		
DOWSIL Tub/Tile/Ceramic Sealant	25 min	-75° to 350°F	10.3 oz	Cartridge	Almond, Clear, Transparent White, White		
GE							
Silicone II Caulk	30 min	-60° to 400°F	2.8 oz	Tube	Almond	**446G71**	
Silicone II Kitchen and Bath Sealant	30 min	-60° to 400°F	10.1 oz	Cartridge	Clear, White	**D0279**	
	10 min	-60° to 400°F	10.1 oz	Cartridge	Almond	**11N099**	
	30 min	-60° to 400°F	2.8 oz	Tube	Clear, White	**D0278**	
Silicone II Rubber Sealant	30 min	-60° to 400°F	2.8 oz	Tube	Clear	**22N770**	
Silicone II Supreme Sealant	30 min	-60° to 400°F	10.1 oz	Cartridge	Clear, White, Almond	**D9106**	
Silicone I Sealant	30 min	-60° to 400°F	10.1 oz	Cartridge	Clear, White	**K4258**	
	30 min	-60° to 400°F	2.8 oz	Tube	Clear		
Supreme Paintable Sealant	20 min	-30° to 150°F	10.1 oz	Cartridge	White	**11N101**	*
Homax							
Bathroom Tub, Wall Surrounds Caulk Strip	30 min	Not Rated	1 ⅝ in x 11 ft	Roll	White	**444D75**	

** Paintable.*

Fireplace and Stove Sealers

- Sealant container: 10.1 oz. cartridge

Silicate Cement—High-heat mortar for use on masonry and wood. Ideal for patching firebrick and mortar in fireplaces, and sealing wood-burning stoves. Cleans up with water.

Blockade Intumescent Acrylic Sealant—Single-component water-based firestop sealant for use on concrete, fiberglass, plastic, and wood. Meets ASTM E8141 and UL 1479 standards.

Silicate Cement
2KVH9

Description	Begins to Harden	Full Cure	Application Temp. Range	Color	Item No.
Silicate Cement	1 hr	1 day	40° to 100°F	Black	2KVH9
Blockade	2 hr	28 day	40° to 120°F	Red	2KVH7

Food-Grade Sealant

Silicone formula for commercial kitchens and food processing for use on ceramic, fiberglass, glass, metal, and plastic. Provides a durable, waterproof seal with minimal shrinkage, long-lasting flexibility, and excellent adhesion. NSF Standard 51 certified.

Sealant Container	Size	Begins to Harden	Full Cure	Application Temp. Range	Sealant Properties	Brand	Item No.
Silicone II Sealant Base							
Whites							
Cartridge	10.1 oz	30 min	1 day	40° to 100°F	Flexible	GE	3LA49
Silicone Sealant Base							
Clears							
Cartridge	9.8 oz	10 min	1 day	-35° to 140°F	Flexible	DAP	20HA77
Cartridge	10.1 oz	30 min	1 day	40° to 100°F	—	GE	3LA48
Tube	2.8 oz	30 min	1 day	40° to 100°F	Flexible, Waterproof	GE	3LA50
Silvers							
Cartridge	9.8 oz	10 min	1 day	-35° to 140°F	Paintable, Waterproof	DAP	20HA78
Tans							
Cartridge	10.1 oz	10 min	24 hr/Expose to water 3 hr	40° to 100°F	Crack-Proof, Flexible, Indoor, Mold/Mildew Resistant, Shrink-Proof, Waterproof	GE	11N099
Whites							
Cartridge	9.8 oz	10 min	1 day	-35° to 140°F	Flexible, UV Resistant, Waterproof	DAP	20HA76
Tube	2.8 oz	30 min	1 day	40° to 100°F	Indoor, Outdoor, Paintable	GE	4UH01

20HA76

Marine Sealants

Marine Adhesive Sealant Fast Cure 4000 UV and 4200—Flexible bond for wood, fiberglass, gelcoat, plastics, and metals. Use for boat hardware above or below water line. 1RWH9 has VOC levels that meet SCAQMD requirements.

Marine Adhesive Sealant 5200 and 5200 UV—Flexible sealant for wood, fiberglass, metal and most plastics.

550 Adhesive Sealant—Medium paste forms permanent elastic bond on concrete, wood, aluminum, and most lacquered metals, polyester, glass, and stone.

730 UV Hybrid Sealant—Bonds material with differing thermal expansion.

740 UV Hybrid Sealant—Elastic bond for concrete, wood, aluminium, most lacquered metals, polyester, glass, stone, and ceramic. Can replace rivets and other fasteners.

DOWSIL 733 Glass and Metal Sealant—Conventional acetoxy RTV sealant with adhesion promoter.

Loctite Gasket Dressing SI 592—For use as a permanent seal above or below the water line.

733 Glass and Metal
53DC13

Description	Begins to Harden	Full Cure	Application Temp. Range	Size	Sealant Container	▶CHOOSE: Color	Item No.
3M							
Marine Adhesive Sealant, Fast Cure 4000 UV	20 min	24 hr	—	10 oz	—	White	1RWH9
Marine Adhesive Sealant Fast Cure 4200	2 hr	1 day	40° to 100°F	10 oz	Cartridge	White	2JBK5
		1 day	40° to 100°F	10 oz	Cartridge	Black	2JBK6
Marine Adhesive Sealant 5200	Greater Than 48 hr	5 day	40° to 100°F	10 oz	Cartridge	Black	D9122
		7 day	40° to 100°F	10 oz	Cartridge	Mahogany, White	D9122
		7 day	40° to 100°F	10 oz	Cartridge	Tan	2JBH1
Marine Adhesive Sealant Fast Cure 5200 UV	1 hr	24 hr	—	3 oz	—	White	1RWH7
550 Sealants	90 min	1 day	40° to 95°F	10.5 oz	Cartridge	Black, White	D9111
730 UV Hybrid Sealant	30 min	1 day	40° to 95°F	305 mL	Cartridge	Clear	29UJ48
740 UV Hybrid Sealants	1 hr	1 day	40° to 95°F	600 mL	Sausage Pack	Gray	29UJ27
Dow Corning							
DOWSIL 733 Glass and Metal Sealant	15 min	1 day	-20° to 122°F	10.1 oz	Cartridge	Aluminum Gray	53DC13
		1 day	-20° to 122°F	10.1 oz	Cartridge	Black	53DC14
		1 day	-20° to 122°F	10.1 oz	Cartridge	Clear	53DC15
		1 day	-20° to 122°F	10.1 oz	Cartridge	White	53DC16
Loctite							
Gasket Dressing SI 592	4 hr	24 hr	—	16 oz	—	Brown	16X924

White
25J627

SUREBOND
Joint Stabilizers • Sealers • Cleaners • Adhesives

Pick-Proof Adhesive/Sealant

- Sealant container: 10.3 oz. cartridge

Formulated for use in correctional institutions, this hard-setting adhesive features a tensile strength of 2000 psi and resists cracking. Adheres to bars, vents, windows, doors, covers, and grids.

Description	Begins to Harden	Full Cure	Application Temp. Range	Color	Item No.
SB-190 Sealant	1 hr	28 day	50°F	White	25J627
				Clear	3RCY6

Pneumatic Caulk Guns

- ¼" MNPT inlet
- 326 lb. thrust ratio

For Bulk Containers—Barrel of the gun holds the caulk while the gun's plunger presses against the caulk packed in the barrel end and squeezes caulk from the top of the barrel and through a nozzle attachment on the gun. Leaves no packaging to dispose of but requires cleaning after use to remove caulk residue.

For Cartridges—Caulk cartridges fit into the barrel of the gun while the gun's plunger presses against the end of the cartridge and squeezes caulk through the cartridge nozzle. Gun requires less frequent cleaning than bulk or sausage pack guns because the cartridge minimizes contact between the caulk and the gun.

For Sausage Packs—Barrel of the gun accepts caulk in sausage packs (chubs) while the gun's plunger presses against the end of the pack and squeezes caulk through a nozzle. They compress the pack to a compact plug and leave less packaging waste than cartridge guns.

For Bulk Container
56HU71

For Cartridges or Sasuage Packs
48K612

For Cartridge
48K610

For Application Type	For Container Size	Frame Style	Brand	Mfr. Model	Item No.
For Bulk Containers					
Spray and Bead Application	600 mL	Enclosed	Cox	61009	56HU71
For Cartridge, Sausage Packs					
Low to High Viscosity Materials	10 oz	Enclosed	Cox	63004-LP	48K612
Spray and Bead Application	10 oz	Enclosed	Cox	63007-300	48K616
For Cartridges					
Low to High Viscosity Materials	10 oz	Enclosed	Cox	63001	48K610
	29 oz	Open	Cox	63002	48K611
Medium to High Viscosity Materials	10 oz	Enclosed	Newborn	710AL-12	3EAD7
	29 oz	Enclosed	Newborn	710AL-30	3EAD8
For Sausage Packs					
Low to High Viscosity Materials	10 oz	Enclosed	Cox	63006-300	48K613
	600 mL	Enclosed	Cox	63006-600	48K614
Spray and Bead Application	600 mL	Enclosed	Cox	63007-600S	48K617

Ratchet Rod
5F571

Smooth Rod
5UXR1

Smooth Rod
13W868

Smooth Rod
48UL64

Drip-Free
13J315

Bulk/Sausage Pack
4XX64

Manual Caulk Guns

Size	Type	Construction	Thrust Ratio	Color	Includes	Brand	Item No.
Smooth Rod							
10 oz	Hex Rod, Ergonomic Handle	Plastic, Steel	10:1	Blue/Gray/White	Ladder Hook, Seal Puncture Tool, Spout Cutter	Newborn	**48UL62**
	Hex Smooth Rod	Steel	12:1	Silver	Ladder Hook, Puncture Tool, Spout Cutter	Westward	**13J319**
	Hex Smooth Rod	Steel	12:1	Blue	Ladder Hook, Parallel Frame, Puncture Tool, Spout Cutter	Westward	**13W868**
	Ratchet Gun	Steel	—	Blue	Ladder Hook, Puncture Tool, Spout Cutter, Wrist Wrap	Westward	**13J311**
	Revolving Barrel	Steel	12:1	Blue/Black	Seal Puncture Tool, Spout Cutter	Westward	**13J317**
	Smooth Rod	Steel	26:1	Black/White	Ladder Hook, Revolving Barrel, Rubber-Coated Grip	Newborn	**48UL64**
29 oz	Revolving Barrel	Steel	12:1	Blue/Black	Ladder Hook, Puncture Tool, Spout Cutter	Westward	**13J310**
250mL	High Thrust	Steel	26:1	Lime Green	Smooth Rod	PC Products	**5UXR1**
Ratchet Rod							
10 oz	Industrial	Composite Plastic Body, Dripless Feature	18:1	Yellow/Black	Ladder Hook, Precision Cutter, Puncture Tool	Dripless	**2PB79**
	Ratchet Gun	Zinc Chromate-Plated Steel	7:1	Silver/Blue	Ladder Hook, Puncture Tool, Spout Cutter	Westward	**13J318**
	Ratchet Gun	Steel	7:1	Blue	—	Westward	**13J321**
	Ratchet Rod, Ergonomic Handle	Plastic, Steel	6:1	Black/Gray/White	Ladder Hook, Seal Puncture Tool, Spout Cutter	Newborn	**48UL61**
10.3 oz	Industrial Super	Zinc-Chromate Plated	6:1	—	Puncture Tool	Newborn	**5F571**
29 oz	Ratchet Gun	Zinc Chromate-Plated Steel	7:1	Silver	Ladder Hook,Wrist Wrap, Puncture Tool, Spout Cutter	Westward	**13J322**
Drip-Free							
10 oz	Hex Rod, Comfort Grip	Steel	10:1	Red	Ladder Hook, Seal Puncture Tool, Spout Cutter	Newborn	**48UL63**
	Hex Rod, Ergonomic Handle	Plastic, Steel	10:1	Red	Ladder Hook, Seal Puncture Tool, Spout Cutter	Newborn	**48UL60**
	Revolving Barrel	Plastic	10:1	Blue/Black	Ladder Hook	Westward	**13J312**
	Revolving Barrel	Plastic	12:1	Blue/Black	Ladder Hook, Precision Cutter, Puncture Tool	Westward	**13J315**
Bulk/Sausage Packs							
10 and 20 oz	EZ Thrust Hex Rod	Steel Nozzle, Zinc Chromate-Plated Body	12:1	Blue/Silver	Floating Sausage Cup, Ring Cap and 3 Cones	Newborn	**4XX64**
11 to 20 oz	Aluminum Tube, Neoprene Plunger, Rotating Barrel	Plastic	12:1	Blue/Black	(3) Nozzles, Ladder Hook	Westward	**13J314**
24 oz	Aluminum Tube, Shot Blasting	Aluminum	12:1	Silver/Black	3 Nozzles	Westward	**13J313**
32 oz.	Manual	—	—	—	Grout Nozzle, Tube and Turbine Mixer, Tuck Point Nozzle	Cox	**23YJ71**
1000 mL	Manual	Aluminum	12:1	Black/Silver	(6) Yellow Cone Nozzles	Cox	**787CL5**

Milwaukee
6AWC5

Makita
20UJ22

Battery Powered Caulk Guns

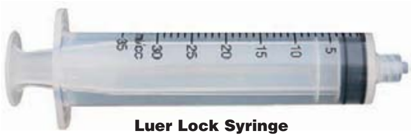
- Variable-speed triggers
- 360° rotating collar provides excellent bead control

Carriage design allows the user to quickly and easily change between 10-oz., Quart, and Sausage-style material containers.

12V—Compact, lightweight guns provide up to 400 lb. of push force for dispensing everyday construction sealants and adhesives. Include auto-reversing anti-drip, seal puncture tool, and durable hang hook.

18V—All-metal gears provide 950 (Milwaukee) or 1100 (Makita) lb. of force for steady dispensing of the highest viscosity materials. Anti-drip mechanism instantly stops leaks. Makita models have an LED light.

Maximum Dispensing Speed	For Container Size	Overall Length	Tool Weight	Includes	Cordless Tool Kit Contents	Battery Pack Replacement	Brand	Mfr. Model	Item No.
12V DC									
29 in/min	10 oz	16 ⅛ in	3.7 lb	10 oz Carriage, Plunger Rod and Piston Assembly	(1) Bare Tool	2XKZ6	Milwaukee	2441-20	**34G843**
	10 oz	16 ⅛ in	3.7 lb	10 oz Carriage, Plunger Rod and Piston Assembly	(1) Bare Tool, (1) Battery, (1) Charger	—	Milwaukee	2441-21	**34G844**
18V DC									
21 in/min	10 oz	18 ½ in	4.9 lb	Conversion Kit, 10 oz Carriage, Plunger Rod Assembly	(1) Bare Tool, (1) Battery, (1) Charger	2XKZ3	Milwaukee	2641-21CT	**6AWC5**
	10 oz	18 ½ in	4.9 lb	—	(1) Bare Tool	2XKZ3	Milwaukee	2641-20	**6AWC4**
	20 oz	28 in	6.5 lb	20 oz Barrel, Nozzle, Plunger Rod Assembly	(1) Bare Tool, (1) Battery, (1) Charger	2XKZ3	Milwaukee	2642-21CT	**6AWC6**
66 in/min	10 oz	15 ⅞ in	5.1 lb	—	(1) Bare Tool	Mfr. No. BL1830B	Makita	XGC01Z	**20UJ22**
	20 oz	21 ¼ in	6 lb	—	(1) Bare Tool	Mfr. No. BL1830B	Makita	XGC01ZB	**20UJ23**



Luer Lock Syringe
5FVD8

Luer Slip Syringe
5FVE8

Syringes

- Package of 10

Syringes contain barrels, pistons, and rubber stoppers. Taper tip syringes can be cut shorter, widening the opening to increase flow. Air-operated syringes are designed for repetitive use. Tip caps are used to cover luer lock syringes.

Description	Cap.	For Use With	Item No.
Syringes			
Luer Lock Syringe	3 cc	Dispensing Needles, Disposable, Reusable	5FVD8
Luer Lock Syringe	5 cc	Dispensing Needles, Disposable, Reusable	5FVD9
Luer Lock Syringe	10 cc	Dispensing Needles, Disposable, Reusable	5FVE0
Luer Lock Syringe	20 cc	Dispensing Needles, Disposable, Reusable	5FVE1
Luer Lock Syringe	30 cc	Dispensing Needles, Disposable, Reusable	5FVE2
Luer Lock Syringe	50 cc	Dispensing Needles, Disposable, Reusable	5FVE3
Luer Slip Syringe	1 cc	Dispensing Needles, Disposable, Reusable	5FVE8
Taper Tip Syringe	10 cc	Dispensing Needles, Disposable, Reusable	5FVE5
Taper Tip Syringe	30 cc	Dispensing Needles, Disposable, Reusable	5FVE6
Taper Tip Syringe	50 cc	Dispensing Needles, Disposable, Reusable	5FVE7
Air Operated Luer Lock (Barrel And Stopper Only)	10 cc	Dispensing Needles and Dispensing Machines, Disposable, Reusable	5FVD4
Air Operated Luer Lock (Barrel And Stopper Only)	30 cc	Dispensing Needles and Dispensing Machines, Disposable, Reusable	5FVD5
Air Operated Taper Tip (Barrel & Stopper Only)	30 cc	Dispensing Machines	5FVD7
Syringe Tip Cap			
Black Tip			5FVL6

Luer Lock
5FTV4

Luer Lock, All Stainless Steel
5FVC0

⅛" NPT
5FTZ7

Reusable Probe Needles

Standard female luer lock needles connect to syringes, dispensing machines, and hoses.

Length	Material	Gauge	Outside Dia.	Inside Dia.	Item No.	Pkg. Qty.
Luer Lock						
¼ in	Stainless Steel	12	0.109 in	0.085 in	5FTY0	12
¼ in	Stainless Steel	14	0.083 in	0.063 in	5FTY1	12
¼ in	Stainless Steel	16	0.065 in	0.047 in	5FTY2	12
¼ in	Stainless Steel	18	0.05 in	0.033 in	5FTY3	12
¼ in	Stainless Steel	22	0.028 in	0.016 in	5FTY5	12
2 in	Stainless Steel	5	0.219 in	0.189 in	5FTV4	12
2 in	Stainless Steel	7	0.18 in	0.15 in	5FTV6	12
2 in	Stainless Steel	10	0.134 in	0.106 in	5FTV9	12
2 in	Stainless Steel	11	0.12 in	0.094 in	5FTW0	12
2 in	Stainless Steel	12	0.109 in	0.085 in	5FTW1	12
2 in	Stainless Steel	13	0.095 in	0.071 in	5FTW2	12
2 in	Stainless Steel	14	0.083 in	0.063 in	5FTW3	12
2 in	Stainless Steel	15	0.072 in	0.054 in	5FTW4	12
2 in	Stainless Steel	16	0.065 in	0.047 in	5FTW5	12
2 in	Stainless Steel	18	0.05 in	0.033 in	5FTW7	12
2 in	Stainless Steel	22	0.028 in	0.016 in	5FTX1	12
2 in	Stainless Steel	30	0.012 in	0.006 in	5FTX9	12
4 in	Stainless Steel	12	0.109 in	0.085 in	5FTY8	12
4 in	Stainless Steel	14	0.083 in	0.063 in	5FTY9	12
4 in	Stainless Steel	16	0.065 in	0.047 in	5FTZ0	12
4 in	Stainless Steel	18	0.05 in	0.033 in	5FTZ1	12
4 in	Stainless Steel	20	0.036 in	0.024 in	5FTZ2	12
Luer Lock, All Stainless Steel						
2 in	All Stainless Steel	16	0.065 in	0.047 in	5FVC0	5
⅛ in NPT						
2 in	Stainless Steel	10	0.134 in	0.106 in	5FTZ7	5
2 in	Stainless Steel	13	0.095 in	0.071 in	5FTZ8	5
2 in	Stainless Steel	16	0.065 in	0.047 in	5FTZ9	5
¼ in NPT						
2 in	Stainless Steel	10	0.134 in	0.106 in	5FVA3	5
Translucent Needle Covers						
1 ½ in Length, Polypropylene					5FVN6	50

Stainless Steel
5FVG5

PTFE
5FVL1

Polypropylene
5FVL9

Disposable Needles

Luer lock fittings are compatible with standard dispensing and lab sampling luer lock connections. Antistatic, nonsterile, with a flat cut (90°) tip. PTFE needles are clog resistant and reduce scratching.

Description	Outside Dia.	Inside Dia.	½ in LENGTH Item No.	½ in LENGTH Pkg. Qty.	1 in LENGTH Item No.	1 in LENGTH Pkg. Qty.	1 ½ in LENGTH Item No.	1 ½ in LENGTH Pkg. Qty.
Stainless Steel Cannula and Polypropylene Hubs								
14 ga. (Green)	0.083 in	0.067 in	5FVH1	50	5FVH2	50	5FVJ9	50
15 ga. (Orange)	0.072 in	0.06 in	5FVH3	50	5FVH4	50	5FVK0	50
16 ga. (Purple)	0.065 in	0.053 in	5FVG5	50	5FVG6	50	5FVK1	50
18 ga. (Pink)	0.05 in	0.038 in	5FVH5	50	5FVH6	50	5FVK2	50
19 ga. (Brown)	0.042 in	0.032 in	5FVG7	50	5FVG8	50	5FVK3	50
20 ga. (Yellow)	0.036 in	0.026 in	5FVH7	50	5FVH8	50	5FVK4	50
21 ga. (Green)	0.032 in	0.023 in	5FVH9	50	5FVJ0	50	5FVK5	50
22 ga. (Black)	0.028 in	0.019 in	5FVJ1	50	5FVJ2	50	5FVK6	50
23 ga. (Blue)	0.025 in	0.017 in	5FVJ3	50	5FVJ4	50	5FVK7	50
25 ga. (Blue)	0.02 in	0.012 in	5FVJ5	50	5FVJ6	50	5FVK8	50
26 ga. (Tan)	0.018 in	0.01 in	5FVG9	50	5FVH0	50	5FVK9	50
27 ga. (Gray)	0.016 in	0.008 in	5FVJ7	50	5FVJ8	50	5FVL0	50
30 ga. (Lavender)	0.012 in	0.006 in	5FVL8	10	—	—	—	—

Description	L	Outside Dia.	Inside Dia.	Item No.	Pkg. Qty.
PTFE Disposable Luer Lock Probe Needles					
14 ga. (Olive)	2 in	0.082 in	0.066 in	5FVL1	10
16 ga. (Purple)	2 in	0.065 in	0.053 in	5FVL2	10
18 ga. (Pink)	2 in	0.054 in	0.042 in	5FVL3	10
20 ga. (Yellow)	2 in	0.046 in	0.034 in	5FVL4	10
22 ga. (Black)	2 in	0.04 in	0.028 in	5FVL5	10
Polypropylene Disposable Probe Needles					
15 ga. (Gray/White)	1 ½ in	0.072 in	0.054 in	5FVL9	10
16 ga. (Brown/White)	1 ½ in	0.067 in	0.047 in	5FVN0	10
18 ga. (Pink/White)	1 ½ in	0.053 in	0.032 in	5FVN1	10
20 ga. (Yellow/White)	1 ½ in	0.039 in	0.024 in	5FVN2	10
22 ga. (Black/White)	1 ½ in	0.032 in	0.016 in	5FVN3	10
25 ga. (Red/White)	1 ½ in	0.029 in	0.013 in	5FVN4	10
Disposable Probe Needle Assortment					
Stainless Steel Cannula and Polypropylene Hub, Includes 1 each 14, 15, 16, 18, 19, 20, 21, 22, 23, 25, 26, 27 ga.				5FVL7	1

14 ga. (Salmon)
5FVF9

1-Pc. Polyethylene Taper Tip Dispensing Needles

- Package of 50

Taper feature reduces dripping and improves flow. Tip can be cut to create larger opening. Chemical- and scratch-resistant.

Description	L	Inside Dia.	Item No.
14 ga. (Salmon)	1 ¼ in	0.063 in	5FVF9
16 ga. (Gray)	1 ¼ in	0.048 in	5FVG0
18 ga. (Green)	1 ¼ in	0.035 in	5FVG1
20 ga. (Pink)	1 ¼ in	0.024 in	5FVG2
22 ga. (Blue)	1 ¼ in	0.017 in	5FVG3
24 ga. (Red)	1 ¼ in	0.013 in	5FVG4

DAP Spray Foam Sealant
5E086

Great Stuff Pro Gaps & Cracks
48WK20

Handi-Foam Spray Foam
15Z030

Pur Fill NF 12
45TP88

Black Foam Pest Block
444A75

Froth-Pak Spray Foam Sealant Kit
48WK26

Spray Foam Sealant Kit
458J56

Touch N' Seal Foam Kit
788W79

Foam Sealants and Spray Foam Kits

Note: Cylinders are for large job applications. Two cylinder kits offer anticrossover hoses and nozzle to eliminate chemical crossover.

Description	Application	Expansion Ratio	Insulation Value	Color	Size	Coverage	Container Type	Std.	Item No.	Pkg. Qty.
Single-Component										
DAP®										
Fireblock Spray Foam Sealant Kit	Fire Barrier	2 to 3:1	R-4 to 5	Orange	12 oz	560 Linear ft @ ⅜ in Bead	Aerosol Can	ASTM E-84, UL Classified	2KVH8	1
Spray Foam Sealant	Multipurpose	2 to 3:1	R-4	Tan	20 oz	—	Aerosol Can	UL Classified	5E087	1
	Polyurethane Expansion Foam Fills and Seals Large Cavities greater than 1 in, 30 Day Can Use	2 to 3:1	R-4	Tan	12 oz	—	Aerosol Can		5E086	1
	Window and Door	—	R-4	White	12 oz	—	Aerosol Can	—	2PE56	1
GREAT STUFF PRO™										
Pestblock	Pest Control	1-2:1	R-3.8	Gray	20 oz	—	Aerosol Can	UL Classified	48WK22	1
Pro Gaps and Cracks	Pro Gaps and Cracks	1-2:1	R-3.8	Orange	24 oz	—	Aerosol Can		48WK20	1
Pro Window and Door	Pro Window and Door	1-2:1	R-3.8	Yellow	20 oz	—	Aerosol Can	AAMA, ASTM, UL Classified	48WK21	1
GREAT STUFF™										
Fireblock	Fire Barrier	2-4:1	R-3.7	Orange	12 oz	—	Aerosol Can	UL Classified	48WK19	1
Gap Filler	1 in Gaps and Cracks	2-4:1	R-3.7	Cream	12 oz	—	Aerosol Can		48WK15	1
	3 in Big Gap Filler	2-4:1	R-3.7	Cream	12 oz	—	Aerosol Can		48WK16	1
Pestblock	Pest Control	2-4:1	R-3.7	Gray	12 oz	—	Aerosol Can		48WK18	1
Window and Door	Window and Door	2-4:1	R-3.7	Yellow	12 oz	—	Aerosol Can	AAMA, ASTM, UL Classified	48WK17	1
Handi-Foam™										
Spray Foam Sealant	Fire Barrier	2 to 3:1	R-4.5	Orange	12 oz	1,996 Linear ft @ ¼ in Bead	Aerosol Can	ASTM E84/UL 723	15Z030	12
	Fire Barrier	2 to 3:1	R-4.5	Orange	24 oz	4,403 Linear ft @ ¼ in Bead	Aerosol Can		15Z032	12
	Gaps and Cracks	2 to 3:1	R-4.5	Black	12 oz	1,996 Linear ft @ ¼ in Bead	Aerosol Can		2RPJ6	1
	Window and Door	2 to 3:1	R-4.7	Cream	24 oz	3,993 Linear ft @ ¼ in Bead	Aerosol Can		45TP66	1
Todol										
IPF Foam Kit	Pest Control	7%	6.0/inch	Yellow	24 oz	2,000 cu in	Aerosol Can	ASTM E-84	45TP92	1
Pur Black	Multipurpose	7%	R-6	Black	32 oz	1,200 Linear ft @ ½ in Bead, 19 Board ft, 2,820 cu in	Aerosol Can		9HYA2	1
Pur Black NF	Multipurpose	30%	5.0/inch	Black	16 oz	1,060 cu in	Aerosol Can		45TP90	1
Pur Fill NF	Multipurpose	30%	5.0/inch	Yellow	24 oz	1,920 cu in	Aerosol Can		45TP89	1
Pur Fill NF 12	Multipurpose	30%	5.0/inch	Yellow	12 oz	960 cu in	Aerosol Can		45TP88	1
Touch N' Seal										
Construction, Masonry, Metalworking	Construction, Masonry, Metalworking	—	—	White	20 oz	—	—	—	499H99	1
All Season	Multipurpose	2 to 3:1	R-4.5	Beige	24 oz	2,230 ft per ¼ in Bead	Aerosol Can	ASTM E-84, ICC-ES ESR-1926	444A74	1
BlackFoam Pest Block	Multipurpose	2 to 3:1	R-4.5	Black	24 oz	3,200 ft per ¼ in Bead	Aerosol Can	ASTM E-84, UL 1715	444A75	1
Fireblock, Gun Foam II	Fire Barrier	2 to 3:1	R-7.12	Orange	24 oz	3,200 Linear ft per ¼ in Bead	Aerosol Can	ASTM E-814, ICC-ES ESR-1926, UL 1715	444A73	1
Landscape Sealant for Ponds & Waterfalls	Multipurpose	2 to 3:1	R-5	Black	12 oz	3,200 Linear ft per ¼ in Bead	Aerosol Can	Fish and Plant Safe	444A76	1
Mouse Shield with Pesticide	Pest Control	2 to 3:1	R-4	Beige	12 oz	396 Linear ft per ⅜ in Bead	Aerosol Can	ASTM E-814, UL-1715, UL-723	444A77	1
No Warp Window & Door Sealant	Multipurpose	2 to 3:1	R-4.5	White	12 oz	2,200 Linear ft per ¼ in Bead	Aerosol Can	ASTM E-84	444A72	1
Quick Cure	Multipurpose	2 to 3:1	R-4.9	Beige	12 oz	499 Linear ft @ ½ in Bead	Aerosol Can	ASTM C-1536, ASTM C-273, ASTM C-518, ASTM D-1621, ASTM D-1622, ASTM D-1623, ASTM E-814, ASTM E-84, ASTM E-96	444A70	1
	Multipurpose	2 to 3:1	R-4.9	Beige	24 oz	499 Linear ft @ ½ in Bead	Aerosol Can	ASTM C-1536, ASTM C-273, ASTM C-518 R, ASTM D-1621, ASTM D-1622, ASTM D-1623, ASTM E-814, ASTM E-84, ASTM E-96	444A71	1
Reddy Insulation	Gaps and Cracks	2 to 3:1	R-4	Beige	11 oz	499 Linear ft @ ½ in Bead	Aerosol Can	UL Classified	444A69	1
Mine Block Mortar	Multipurpose	1:1	R-5	Beige	20 lb	—	Box	ASTM E-119, ASTM E-72-80, UL-723/ASTM E-84	444C03	1
Quick Cure Fireblock, High Yield	Gaps and Cracks	2 to 3:1	R-4.9	Beige	16 lb	24,000 Linear ft	Cylinder	ASTM E-814, ASTM E-84, ICC-ES ESR-1926, UL-1715	444A79	1
Quick Cure Fireblock, Reduced Expansion	Fire Barrier	6 to 8:1	R-5	Beige	16 lb	24,080 ft	Cylinder	ASTM C-518 R-Value, ASTM E-84, UL-1715	444C10	1
2-Component										
FROTH-PAK™										
Froth-Pak™ 12	Multipurpose	2-4:1	R-6.1	Cream	3.3 lb	12 Board ft	Two Cylinders	UL Classified	48WK25	1
Froth-Pak™ 200	Multipurpose	3-5:1	R-6.1	Cream	41 lb	200 sq ft @ 1 in Thickness	Two Cylinders		48WK26	1
Froth-Pak™ 210	Multipurpose	3-6:6	R-6.6	Cream	42 lb	210 sq ft	Two Cylinders		48WK27	1
Handi-Foam™										
Spray Foam Sealant Kit	Insulation	0.167	R-6 to 7.2	Cream	41 lb	17 cu ft, 205 Board ft	Two Cylinders	ASTM E-84 Class 1(A), UL-94 Rated	2TE59	1
	Sound Barrier	0.334	R-4.3	Cream	26.4 lb	20.83 cu ft, 250 Board ft	Two Cylinders	ASTM E-84 Class 2(B)	458J56	1
Touch N' Seal										
Multipurpose	Commercial, Multipurpose, Residential, Transportation	2:1	R-5.5	Cream	15 oz	15 Board ft	Cylinder	ASTM C-518, ASTM D-1622, ASTM D-1621, ASTM D-1623, ASTM D-2856, ASTM E-283, ASTM E-90, ASTM E-96	788W79	1
	Commercial, Multipurpose, Residential, Transportation	2:1	R-5.5	Cream	41.56 lb	200 Board ft	Cylinder		788W78	1
Foam Kit, 1.75 PFC	Multipurpose	6 to 8:1	R-5	Beige	28.44 lb	200 Board ft	Two Cylinders	ASTM C-423, ASTM C-518 R, ASTM E-84, ASTM G-21	444A87	1
Slow Rise 120 1.75 PCF	Multipurpose	6 to 8:1	R-5.7	Beige	28.43 lb	200 Board ft	Two Cylinders	33 CFR §183.144, ASTM E-84	444A81	1
Spray Foam Kit 3.0 pcf	Roof and Gutter	8:1	R-5.9	Beige	26.27 lb	120 Board ft	Two Cylinders	ASTM C-518 R-Value, ASTM G-21	444A80	1
Spray Foam Sealant	Multipurpose	6 to 8:1	R-5	Beige	15.64 lb	110 Board ft	Two Cylinders	ASTM C-423, ASTM C-518 R, ASTM E-84, ASTM G-21	444A86	1
	Multipurpose	10 to 12:1	R-5	Beige	28.44 lb	300 Board ft	Two Cylinders		444A82	1
Accessories										
DAP®										
DRAFTSTOP™ 812 Foam & Applicator Cleaner									29RV19	1
Foam Applicator, For Use With Adhesives, Canned Foam, 12 in									491T59	1
GREAT STUFF PRO™										
Spray Foam Dispensing Unit, For 20 to 30 oz Bottles, For Dispensing Spray Foam Products									48WK24	1
Spray Foam Dispensing Unit Cleaner, 12 oz., Used to Dissolve and Remove Uncured Polyurethane Foam									48WK23	1
Handi-Foam™										
Spray Foam Dispensing Unit Cleaner, 12 oz., For Cleaning One-Component Dispensing Units									4KK26	1

Gorilla Glue

- Full cure: 24 hr.

Dries White and All-Purpose Glue—Bonds wood, stone, metal, ceramic, and more. White dries faster. Waterproof.
- Temp. range: -40° to 212°F

Super Glue—Bonds to most common building materials. Anticlog cap with a metal pin inside ensures an airtight seal for maximum reusability.
- Temp. range: -65° to 220°F

Wood Glue—Bonds wood-to-wood without leaving an orange afterglow. FDA approved for indirect food contact.
- Temp. range: 0° to 150°F

1TMA4

2KKF3

453U45

30WM02

4GZK3

Item	Characteristics	Color	Clamp Time	Size	Mfr. Model	Item No.
All Purpose Glue	Extremely Strong Bonding Power	Brown	1 to 2 hr	2 oz.	5000201	**1TLZ9**
		Brown	1 to 2 hr	4 oz.	5000413	**1TMA1**
		Brown	1 to 2 hr	8 oz.	5000802	**1TMA2**
		Brown	1 to 2 hr	18 oz.	5001803	**1TMA3**
		Brown	1 to 2 hr	36 oz.	5003601	**1TMA4**
Dries White Glue	and Dries White, Paintable, Sandable, Stainable, Waterproof, Weatherproof	White	30 to 60 min	2 oz.	5201208	**2KKF2**
Dries White Glue Pen		White	30 to 60 min	0.75 oz.	5201111	**2KKF3**
Glue	Dries Clear, Non Foaming, Strong	Clear	1 to 2 hr	1.75 oz.	4500102	**453U44**
		Clear	1 to 2 hr	3.75 oz.	4537502	**453U45**
Super Glue	Anti-Clog Tip, Impact Resistant, Polyurethane Adhesive, Rubber Toughened	Clear	10 to 45 sec.	(2) 3g Tubes	7800102	**4GZK5**
	Anti-Clog Cap, Easy to Use, Impact Resistant, Multipurpose, No Run	Clear	10 to 45 sec.	0.53 oz.	7600101	**30WM02**
	Rubber Toughened for Impact Strength	Clear	10 to 45 sec.	1 lb.	78007	**16V096**
	Anti-Clog Tip, Impact Resistant, Polyurethane Adhesive, Rubber Toughened	Clear	10 to 45 sec.	15g	7805002	**4GZK6**
Wood Glue	Dries Natural Color, FDA Approved For Direct Food Contact, Non-Toxic, PVA, Solvent Resistant, Water Clean-Up, Water-Resistant	Cream	20 to 30 min	8 oz.	6200002	**4GZK3**
		Cream	20 to 30 min	18 oz.	6205001	**4GZK4**

Wood Glues

DAP WELDWOOD

Carpenter's Glue—Sets fast, grips tight, and sands easily. Solvent resistant. Nontoxic.

TITEBOND III ULTIMATE WOOD GLUE

Waterproof formula meets ANSI/HPVA Type I water-resistance specification. Has longer open assembly time and lower application temperature. Sands easily. Interior/exterior.

TITEBOND II

Premium and Extend Wood Glue—Meet ANSI Type II water-resistance specification. 3KRU6 and 3KRU7 have a longer set time. Interior/exterior.

Wood Glue—Great for general woodworking with porous and semiporous materials. ANSI Type II.

TITEBOND ORIGINAL WOOD GLUE

Aliphatic-resin glue sets quickly to reduce clamp time. Resists heat, solvents, and mildew. 3KRU4 and 4EML7 have a longer set time.

TITEBOND

Quick & Thick, No Run/No Drip—Glue dries twice as fast and three times as thick as traditional PVAs. Bonds to multiple surfaces.

Polyurethane Wood Glue—Combines a long 20-min. working time with a short 45-min. clamping time. Waterproof formula is excellent for wood to wood, metals, ceramics, most plastics—porous and nonporous materials. ANSI Type I and Type II.

Type	Color	Begins to Harden	Size	Item No.	
DAP® Weldwood Carpenter's Wood Glue					
Aliphatic Resin	Yellow	10 min.	1 qt.	**5UFR4**	
		—	1 gal.	**5E104**	
Titebond® III Ultimate Wood Glue					
Water-Resistant	Tan	10 Min.	4 oz.	**3KZJ4**	*
		10 min.	8 oz.	**1FCC1**	*
		10 min.	16 oz.	**1FCC2**	*
		10 min.	1 gal.	**1FCC3**	*
Titebond® II Premium Wood Glue					
Exterior	Honey Cream	5 Min.	4 oz.	**3KZJ6**	*
		5 min.	8 oz.	**3KRU5**	*
		5 min.	16 oz.	**1FCC4**	*
		5 min.	1 gal.	**1FCC5**	*
Titebond® II Extended Wood Glue					
Slow Set	Cream	15 min.	16 oz.	**3KRU6**	
		15 min.	1 gal.	**3KRU7**	
Titebond® II Wood Glue					
Dark	Brown	5 min.	8 oz.	**4EMP2**	
		5 min.	16 oz.	**3KRU8**	
		5 min.	1 gal.	**4EMP3**	
Interior	White	5 min.	1 gal.	**1FCC8**	
		5 min.	5 gal.	**3KRU2**	
Titebond® II Original Wood Glue					
Heat- and Solvent-Resistant	Yellow	5 min.	4 oz.	**4EML7**	
		5 min.	8 oz.	**3KRU3**	
		5 min.	16 oz.	**1FCC6**	
		5 min.	1 gal.	**1FCC7**	
Titebond® II Original Extended Wood Glue					
Slow Set	Yellow	15 min.	16 oz.	**3KRU4**	
		15 min.	1 gal.	**4EML8**	
Titebond® Quick & Thick, No Run/No Drip					
Quick & Thick	Beige	3 to 5 min.	8 oz.	**3KRU9**	
No Run, No Drip		3 to 5 min.	16 oz.	**4EMP4**	
Titebond® Polyurethane Wood Glue					
Polyurethane	Brown	3 to 25 min.	4 oz.	**4EML9**	
		3 to 25 min.	8 oz.	**3KRV1**	
		3 to 25 min.	12 oz.	**4EMN1**	

** FDA approved for indirect food contact (cutting board).*

5E104

1FCC1

1FCC4

1FCC8

16V093

Gorilla Tape

Weatherproof, airtight tape is easy to tear by hand. For indoor and outdoor use.

Double-Sided Tape—Bonds plastic, metal, wood, glass, brick, ceramic, and stone. 45DV48 holds up to 15 lb. on smooth and rough surfaces for easy hanging; 49UU23 is an industrial strength double-sided tape with a heavy duty bond. Holds up to 30 pounds. Ideal for indoor and outdoor projects and sticks to smooth and rough surfaces.

Duct Tape—Double-thick adhesive grips smooth, rough, and uneven surfaces. Withstands moisture, UV rays, and temperature extremes.

Repair Tape—Fix, patch, seal, hold, and protect almost any surface.

Item	Tape Thickness	Tape Color	Imperial Tape WxL	Mfr. Model	Item No.
Double-Sided Foam Tape	1/16 in	Black	1 in x 1 ¾ yd	6055002	**49UU23**
	1/32 in	Transparent	1 in x 1 ¾ yd	6065001	**45DV48**
Duct Tape	17 mil	Black	1 in x 10 yd	6100109	**16V093**
	17 mil	Black	1 ⅞ in x 12 yd	60124	**1TMA5**
	17 mil	Black	1 ⅞ in x 35 yd	6035060	**1TMA6**
	17 mil	Black	2 ⅞ in x 25 yd	106425	**5REA3**
Repair Tape	7 mil	Transparent	1 ½ in x 5 yd	6015002	**45DV43**
	8.2 mil	Transparent	2 in x 9 yd	6027002	**30WM01**

Cordless
5PYT8

Heavy-Duty
4YR48

PRO2-100
20YV41

Hot Glue Guns and Sticks

CORDLESS GLUE GUNS

Master PortaPro Glue Gun

Butane heat source has push-button piezo ignition, glue flow cutoff, fuel flow safety lock, and fuel-refill indicator. 1UBG6 includes 4 brass nozzles, eight ½" x 6" glue sticks, and plastic case.

ELECTRIC GLUE GUNS

12-Pc. Heavy-Duty Glue Gun Kit

Includes 3 special-use nozzles, nonstick work pad, 6 high-temperature glue sticks, wire stand, and carrying case.

DualMelt Pro Glue Gun Kit

Dual-temperature glue gun has On/Off light, protected nozzle, fold-out stand, cushion grip, slip-resistant trigger action, and auto shutoff.

Heavy-Duty Glue Guns

High temperature setting bonds cardboard, ceramics, leather, light metals, and wood. Low temperature setting bonds heat-sensitive parts such as fabrics, foam materials, and plastics.

SUREBONDER

36FL79 professional gun is a light-duty, high-temperature gun. 20YV40 and 20YV41 are medium-duty high-temperature guns. 39AN01 is a high-temperature gun for fixed temperature applications. Heavy-duty gun 20YV44 features cartridge heaters with adjustable temperatures.

Description	Watts	Glue Stick Capacity	Feed	Brand	Mfr. Model	Item No.
Cordless Glue Guns						
PortaPro® Butane Glue Gun	Equivalent to 200	½ in	3-Finger Trigger	Master Appliance	GG-100	**5PYT8**
PortaPro® Butane Glue Gun Kit	Equivalent to 200	½ in	3-Finger Trigger	Master Appliance	GG-100K	**1UBG6**
Rechargable	60 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	CL-800F	**36FL77**
Rechargeable	60 W	7/16 in	Trigger	Surebonder	Pro2-60KIT	**49AC27**
Electric Glue Guns						
12-Pc. Heavy-Duty Glue Gun Kit	100 W	7/16 in	Lever	Westward	—	**4YR47**
DualMelt Pro™ Glue Gun Kit	80 W	7/16 in	Trigger	STANLEY	GR100	**1XHV3**
DualMelt™	80 W	7/16 in	Trigger	STANLEY	GR25-2	**24T316**
DualMelt™ Heavy Duty	80 W	7/16 in	Manual	STANLEY	STHT72317	**31CN65**
Heavy-Duty	80 W	7/16 in	Lever	Westward	—	**4YR48**
Heavy-Duty	180 W	½ in, 7/16 in	Trigger	Surebonder	PRO2-180	**791TV1**
Heavy-Duty	220 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-220HT	**39AN01**
Heavy-Duty	220 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-220	**20YV44**
Light-Duty	30 W	7/16 in	Trigger	STANLEY	GR20	**24T309**
Light-Duty	80 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	HE750	**36FL79**
Light-Duty, Ergonomic	80 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-80	**20YV40**
Light-Duty Glue Gun	40 W	½ in	Trigger	Arrow	TR400	**3RAZ7**
Medium-Duty, Interchangeable Nozzle	100 W	0.43 in, 0.45 in, ½ in, 7/16 in	Trigger	Surebonder	PRO2-100	**20YV41**
Mini Hot Melt Glue Gun	15 W	¼ in	Trigger	STANLEY	GR10	**3NZW9**
Professional Glue Gun	40 W	½ in	3-Finger Lever	Arrow	TR550	**3RAZ6**

For Use With	Color	Begins to Harden	Size	Mfr. Model	Item No.	Pkg. Qty.
Hot Melt Glue Sticks						
Westward						
9/32" Capacity Glue Gun	Transparent	30 to 60 sec.	0.28 x 4"	23X751	**23X751**	24
29/64" Capacity Glue Gun	Transparent	30 to 60 sec.	0.45 x 4"	23X752	**23X752**	6
	Transparent	30 to 60 sec.	0.45 x 4"	23X753	**23X753**	24
	Transparent	30 to 60 sec.	0.45 x 10"	23X754	**23X754**	12
½" Electric Glue Guns	Transparent	30 to 60 sec.	0.43 x 10"	—	**4YR49**	24
	Transparent	30 to 60 sec.	0.43 x 10"	—	**4YR50**	100
29/64" Capacity Glue Gun	Transparent	50 to 60 sec.	0.45 x 4"	23X755	**23X755**	6
	Transparent	50 to 60 sec.	0.45 x 4"	23X756	**23X756**	30
	Yellow	35 to 50 sec.	0.45 x 4"	23X757	**23X757**	6
	Opaque	30 to 60 sec.	0.45 x 10"	23X758	**23X758**	12
STANLEY						
Mfr. No. GR10 Glue Gun	Clear	—	0.28"	GS10DT	**2FDB9**	24
Surebonder						
Standard Diameter (½",7/16",0.43",0.45") Glue Guns	Tan/Amber	10 sec.	7/16" x 15"	711R15-5P	**20YV47**	60
	Tan/Amber	10 sec.	7/16" x 15"	711R15-25P	**20YV48**	300
	Clear	60 sec.	7/16" x 4"	DT-6	**20YV46**	6
	Clear	60 sec.	7/16" x 10"	725R10-1P	**20YV49**	18
	Clear	60 sec.	7/16" x 10"	725R10-5P	**20YV50**	90
	Clear	60 sec.	7/16" x 10"	725R10-25P	**20YV51**	450

For Use With	Color	Begins to Harden	Size	Mfr. Model	Item No.	Pkg. Qty.
20YV45, Not For Use With 3M Glue Gun	Tan/Amber	5 sec.	⅝" x 10"	Q601-5P	**20YV52**	53
	Tan/Amber	10 sec.	⅝" x 10"	Q711-5P	**20YV53**	53
	Tan/Amber	10 sec.	⅝" x 10"	Q711-25P	**20YV54**	265
5E124, 3M Polygun TC	Tan/Amber	10 sec.	⅝" x 2"	TC-711-11P	**20YV58**	600
3M						
Mfr. No. AE II	Tan	35 sec.	0.45"	3762	**1VAK9**	143
	Clear	50 sec.	½	3792	**1VAL1**	143
Mfr. No. POLYGUN TC	Tan	35 sec.	⅝	3762	**5E119**	484
	Clear	50 sec.	⅝	3792	**5E121**	484
Mfr. No. POLYGUN EC	Clear	40 sec.	⅝	3792LM Q	**5E122**	154
	Translucent Light Amber	30 sec.	⅝	3762	**3UB90**	154
Scotch-Weld PG II with Speed loader	Tan	35 sec.	1 x 3	3762	**2GKJ1**	242
	Light Amber	25 sec.	1 x 3	3762	**2GKJ2**	242
Scotch-Weld TC with Quad rack Converter	Tan	35 sec.	5/8 x 8	3762	**2GKH9**	154
	Tan	50 sec.	5/8 x 8	3738	**2GKK4**	154
	Clear	40 sec.	5/8 x 8	3764	**2GKH7**	154
	Clear	50 sec.	5/8 x 8	3792 Q	**2GKN4**	154
Mfr. No. POLYGUN LT	Clear	40 sec.	⅝	3792	**4ZH61**	484

Drill Bit Information

DRILL BIT TYPES

Double-ended drill bits have cutting edges on both ends.

Extended-length drill bits are long bits that can drill deep holes and access hard-to-reach areas.

Flat-bottom drill bits create holes with flat bottoms. They are also used for counterboring holes, drilling holes at an angle, and creating intersecting holes and half holes.

Jobber-length drill bits provide a good balance of strength and accuracy when drilling a variety of materials.

Mechanics-length drill bits are short drill bits that provide more strength and rigidity and are less likely to break or shear when drilling hard materials than longer bits.

Micro drill bits create precise, tiny holes with close tolerances.

Reduced-shank drill bits can drill large holes while still being compatible with standard drill chucks.

Screw-machine are shorter than jobber-length and maintenance-length drill bits of the same size. Sometimes called stub-length drill bits, they provide more strength and rigidity and can drill straighter holes than longer drill bits. Their short length also allows them to access tight spaces where longer drill bits cannot fit..

Solid spade drill bits make shallow holes and can drill into thin sheet metals without deforming the material.

Spotting drill bits create a shallow hole that helps prevent drill bits from walking, or moving, when starting to drill.

Spot-weld drill bits are used to drill out a spot weld that is holding two or more thin sheets of metal together.

Step chamfer drill bits create a hole with a countersink in one pass.

Taper-length drill bits have long flutes and can drill deep holes.

Coolant Through

Left Hand Cutting Direction

Right Hand Cutting Direction

FEATURES

Coolant-through drill bits have holes that allow coolant to flow to their tip to reduce heat and help clear chips during drilling.

Left-hand cutting direction drill bits can be used in reverse-drilling applications, such as removing broken screws from a hole.

Right-hand cutting direction drill bits are the standard option for making holes in a workpiece.

FLUTE STYLES

Fast-spiral flutes evacuate chips more quickly than standard spiral flutes.

Helical flutes create smaller chips and evacuate them more quickly than standard spiral-flute drill bits.

Spiral flutes pull chips out of the hole during drilling.

Parabolic flutes are wide, deep spiral flutes that maximize chip flow and heat dissipation and eliminate the need to reduce feed rates in deep drilling applications.

Straight flutes resist breaking when drilling into hard and abrasive materials and help evacuate chips in horizontal drilling applications. They generate minimal heat during drilling and leave a smooth finish on the hole without requiring a reaming pass.

FINISHES

AlCrN coating protects drill bits from wear during dry, high-speed machining applications. It is harder, resists cracking and oxidization better, and performs better in high-feed applications than a TiAlN coating. It also resists high heat better than an AlTiN coating.

AlTiN coating protects drill bits from wear when drilling hard and abrasive materials. It is more resistant to high heat than a TiAlN coating.

Black/gold finish lubricates the bits and provides some resistance to wear and rust.

Black-oxide finish improves the bits' wear resistance and chip flow when drilling ferrous metals.

Bright finish is not affected when the drill bits' cutting edges are resharpened

EgiAs coating provides excellent hardness and heat resistance. It protects drill bits from wear in high-speed drilling applications on steel, cast iron, and hardened steel with a Rockwell Hardness of 35 to 50 HRC.

Straw/bronze finish protects drill bits from wear.

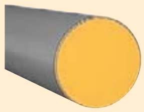
TiAlN coating withstands high temperatures and protects drill bits from wear during high-speed, dry machining applications with difficult-to-machine ferrous metals.

TiCN coating protects drill bits from wear and is harder and more wear-resistant than a TiN coating.

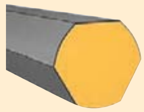
TiN coating protects drill bits from wear, increases chip flow in softer materials, and allows the bits to run at higher speeds than drill bits with a black-oxide finish.

TiNAl coating provides a low-friction surface and is suitable for drilling most materials.

WXL coating protects drill bits from wear and is designed for drilling nonferrous metals and steels with a Rockwell hardness of up to 50 HRC. It is harder and has a higher oxidation temperature than a TiAlN coating.



Straight Shank



Straight Shank with Three Flats

SHANK TYPES

Hex shank provides maximum surface contact with a drill chuck to prevent drill bits from slipping in the chuck during drilling.

Straight shank is the standard option and can be installed in a drill chuck.

Straight shank with three flats installs into a drill chuck and has three flats that prevent the shank from slipping in the chuck during drilling.

Threaded shank screws into a threaded drill adapter to enable drilling in tight areas and ensure the bits will not fall out of the drill

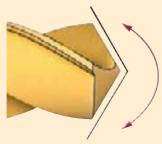
MATERIALS

Carbide drill bits are harder, more wear resistant, and more heat resistant than high-speed steel or cobalt drill bits and require a rigid setup.

Carbide-tipped drill bits have carbide cutting edges that provide excellent hardness, wear resistance, and heat resistance. The bits' body is made from a material that absorbs more vibration and shock than carbide, which helps keep the bits from breaking.

Cobalt drill bits tolerate higher drilling speeds and are harder and more wear-resistant than high-speed steel drill bits. They provide some shock absorption and can be used in hand-held power tools.

High-speed steel drill bits provide more flexibility and absorb more shock and vibration than cobalt and carbide drill bits, making them suitable for use in manual drilling machines and handheld power tolls.



DRILL BIT POINT ANGLE

Drill bit point angle is the included angle at a drill bit's tip where its cutting edges meet. Drill bits with a small (or steep) drill bit angle, such as a 90° drill bit angle, are used for drilling softer materials such as plastic. Drill bits with a 118° drill bit angle are commonly used for drilling a range of materials, such as wood, aluminum, and plastic. Drill bits with a large (or flat) drill bit angle, such as a 135° split-point angle, are used for drilling harder materials such as stainless steel or titanium.

For more information on Drill Bits, see page 2239.

Carbide-Tipped
41AG22

Cobalt Steel
10D228

High-Speed Steel
34GR21

Solid Carbide
45YJ42

Jobber-Length Drill Bit Sets

- Right hand cutting direction except where noted

No. of Bits	Smallest Size	Largest Size	Cutting Direction	Finish	Flute Type	Case Type	Brand	Item No.
Carbide-Tipped								
118° Point Angle, Cam Relieved Point								
25	⅛ in	½ in	Rt Hand	Bright	—	Box	—	**41AG22**
Cobalt Steel								
118° Point Angle, Conventional Point								
29	1/16 in	½ in	Rt Hand	Gold Oxide	Spiral	—	Westward	**10D228**
118° Point Angle, Split Point								
29	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Cle-Line	**494N86**
135° Point Angle, Conventional Point								
14	1/16 in	⅜ in	Rt Hand	Gold Oxide	Spiral	—	Westward	**10D227**
15	1/16 in	⅜ in	Rt Hand	Black Oxide	Spiral	Box	IRWIN	**3UME9**
29	1/16 in	½ in	Rt Hand	Gold Oxide	Spiral	Box	DeWalt	**45CZ02**
135° Point Angle, Pilot								
14	1/16 in	⅜ in	Rt Hand	TiN	Spiral	Box	DeWalt	**45CZ01**
135° Point Angle, Split Point								
11	1.00 mm	6.00 mm	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**6WTZ9**
13	1/16 in	¼ in	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1U198**
13	1/16 in	¼ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6WUE4**
15	1/16 in	½ in	Rt Hand	Straw/Bronze	Parabolic	Index	Cleveland	**434L05**
15	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1U200**
15	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Cle-Line	**53PR41**
15	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Westward	**401J96**
15	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6WUD5**
19	1.00 mm	10.00 mm	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**6WTZ7**
20	#80	#61	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**6WTZ3**
21	1/16 in	⅜ in	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1V713**
21	1/16 in	⅜ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6WUE5**
25	1.00 mm	13.00 mm	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**6WTZ8**
26	A	Z	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1V710**
26	A	Z	Rt Hand	Straw/Bronze	Spiral	Index	Cleveland	**434R72**
29	1/16 in	½ in	Rt Hand	Straw/Bronze	Parabolic	Index	Cleveland	**434L06**
29	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1U196**
29	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Cle-Line	**1BR43**
29	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Cleveland	**434L08**
29	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6WUD4**
60	#60	#1	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1U202**
60	#60	#1	Rt Hand	Straw/Bronze	Spiral	Index	Cle-Line	**53PR39**
60	#60	#1	Rt Hand	Straw/Bronze	Spiral	Index	Cleveland	**434L09**
115	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Chicago-Latrobe	**1G915**
115	1/16 in	½ in	Rt Hand	Straw/Bronze	Spiral	Index	Cle-Line	**53PR38**
115	1/16 in	Z	Rt Hand	Straw/Bronze	Spiral	Index	Cleveland	**434L10**
High Speed Steel								
118° Point Angle, Conventional Point								
11	1.00 mm	6.00 mm	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U137**
13	1/16 in	¼ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U100**
13	1/16 in	¼ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**2X470**
13	1/16 in	¼ in	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M463**
13	1.00 mm	7.00 mm	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WUA7**
15	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U104**
15	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**2X471**
15	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Westward	**401J91**
15	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M467**
15	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Cleveland	**406K63**
15	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**1V698**
20	#80	#61	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1V717**
20	#80	#61	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1U129**
21	1/16 in	⅜ in	L Hand	Bright	Spiral	Index	Chicago-Latrobe	**6WUD9**
21	1/16 in	⅜ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U102**
21	1/16 in	⅜ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**4X780**
21	1/16 in	⅜ in	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M465**
25	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U139**
25	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**5BP06**
25	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Cleveland	**406F96**
25	1.00 mm	13.00 mm	Rt Hand	Bright	Spiral	Index	Cleveland	**406J44**
26	A	Z	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U133**
26	A	Z	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**2A737**
26	A	Z	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M473**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U110**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**6X001**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cleveland	**406K61**
29	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M469**
29	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Cle-Line	**53FP24**
29	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Cleveland	**406K62**
29	1/16 in	½ in	Rt Hand	TiN	Parabolic	Index	Cle-Line	**53FP64**
29	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**1V696**
50	1.00 mm	5.90 mm	Rt Hand	Black Oxide	Spiral	Index	Cleveland	**406F94**
60	#60	#1	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U131**
60	#60	#1	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**2A736**
60	#60	#1	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M471**
60	#60	#1	Rt Hand	Bright	Spiral	Index	Cleveland	**406F92**
60	#60	#1	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6WUC8**
80	#60	#1	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WUA5**
114	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WUA6**
115	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1U144**
115	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**1A522**
115	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Chicago-Latrobe	**1M475**
115	1/16 in	Z	Rt Hand	Bright	Spiral	Index	Cleveland	**406F95**
118	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**2VTE5**
135° Point Angle, Conventional Point								
13	1/16 in	¼ in	Rt Hand	TiN	Spiral	Box	DeWalt	**5MP38**
15	1/16 in	⅜ in	Rt Hand	Black & Gold	Spiral	Box	IRWIN	**3UMF1**
15	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Westward	**5UDP3**
18	1/16 in	½ in	Rt Hand	TiN	Spiral	Box	IRWIN	**3UMF2**
21	1/16 in	½ in	Rt Hand	TiN	Spiral	Box	DeWalt	**34GR21**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Westward	**5UDP4**
135° Point Angle, Split Point								
13	1/16 in	¼ in	Rt Hand	Black & Gold	Spiral	Box	DeWalt	**5TE17**
13	1/16 in	¼ in	Rt Hand	Black & Gold	Spiral	Index	Westward	**6PTC6**
13	1/16 in	¼ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WUA8**
13	1/16 in	¼ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKG4**
14	1/16 in	½ in	Rt Hand	Black & Gold	Spiral	Box	DeWalt	**53DR65**
15	1/16 in	½ in	Rt Hand	Black & Gold	Parabolic	Index	Cle-Line	**1TPE2**
15	1/16 in	½ in	Rt Hand	Black & Gold	Spiral	Index	Westward	**5UDN7**
15	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**435G02**
15	1/16 in	½ in	Rt Hand	TiAlN	Spiral	Index	Chicago-Latrobe	**6WTW7**
15	1/16 in	½ in	Rt Hand	TiCN	Spiral	Index	Chicago-Latrobe	**6WTX2**
15	1/16 in	½ in	Rt Hand	TiN	Parabolic	Index	Cle-Line	**1TPC9**
15	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKG2**
21	1/16 in	⅜ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WUC1**
21	1/16 in	⅜ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**1BR50**
21	1/16 in	⅜ in	Rt Hand	TiCN	Spiral	Index	Chicago-Latrobe	**6WTX5**
21	1/16 in	⅜ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKG6**
21	1/16 in	½ in	Rt Hand	Black & Gold	Spiral	Box	DeWalt	**53DR64**
21	½ in	1/16 in	Rt Hand	Black & Gold	Parabolic	Box	Milwaukee	**21R661**
25	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**6WTZ4**
25	1.00 mm	13.00 mm	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**434L13**
26	A	Z	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1G543**
29	1/16 in	½ in	Rt Hand	Black & Gold	Parabolic	Index	Cle-Line	**1TNZ6**
29	1/16 in	½ in	Rt Hand	Black & Gold	Spiral	Box	DeWalt	**53DR59**
29	1/16 in	½ in	Rt Hand	Black & Gold	Spiral	Index	Westward	**5UDN9**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1G547**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Cle-Line	**1BR44**
29	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Round Plastic Index	Cle-Line	**36XE45**
29	1/16 in	½ in	Rt Hand	Bright	Spiral	Index	Cleveland	**434L11**
29	1/16 in	½ in	Rt Hand	TiCN	Spiral	Index	Chicago-Latrobe	**6WTX9**
29	1/16 in	½ in	Rt Hand	TiN	Parabolic	Index	Chicago-Latrobe	**434M12**
29	1/16 in	½ in	Rt Hand	TiN	Parabolic	Index	Cle-Line	**1TPD1**
29	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKH1**
29	½ in	1/16 in	Rt Hand	Black & Gold	Parabolic	Box	Milwaukee	**21R662**
60	#60	#1	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1G545**
60	#60	#1	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKH3**
115	1/16 in	½ in	Rt Hand	Black Oxide	Spiral	Index	Chicago-Latrobe	**1G549**
115	1/16 in	½ in	Rt Hand	TiN	Spiral	Index	Chicago-Latrobe	**6ZKH9**
Solid Carbide								
118° Point Angle, Split Point								
15	1/16 in	½ in	Rt Hand	AlTiN	Spiral	Box	—	**45YJ53**
15	1/16 in	½ in	Rt Hand	Bright	Spiral	Box	—	**45YJ41**
21	1/16 in	⅜ in	Rt Hand	AlTiN	Spiral	Box	—	**45YJ54**
21	1/16 in	⅜ in	Rt Hand	Bright	Spiral	Box	—	**45YJ42**
24	1.00 mm	12.50 mm	Rt Hand	Bright	Spiral	Box	—	**45YJ43**
29	1/16 in	½ in	Rt Hand	AlTiN	Spiral	Box	—	**45YJ56**
29	1/16 in	½ in	Rt Hand	Bright	Spiral	Box	—	**45YJ44**

For more information on Drill Bits, see page 2239.

High Speed Steel
45KM96

BOSCH Milwaukee

Hex-Shank Drill Bit Sets

- Right-hand cutting direction
- TiN coating

Number of Drill Bits	Smallest Drill Bit Size	Largest Drill Bit Size	Flute Type	Drill Bit Case Type	Brand	Item No.
High Speed Steel						
135° Point Angle, Conventional Point						
5	¼ in	3⁄32 in	Spiral	Plastic	Bosch	**53DM64**
9	⅜ in	1⁄16 in	Spiral	Plastic	Bosch	**53DM65**
135° Point Angle, Split Point						
10	⅜ in	⅛ in	Parabolic	Box	Milwaukee	**415H88**
15	1⁄16 in	⅜ in	Parabolic	Box	Milwaukee	**45KM95**
23	1⁄16 in	⅜ in	Parabolic	Box	Milwaukee	**45KM96**
29	1⁄16 in	½ in	Parabolic	Box	Milwaukee	**45KM97**

High Speed Steel
4UM96

C-L Chicago-Latrobe CLE-LINE. WESTWARD IRWIN

Reduced-Shank Drill Bit Sets

- Right-hand cutting direction

Number of Drill Bits	Smallest Drill Bit Size	Largest Drill Bit Size	Finish	Flute Type	Drill Bit Case Type	Brand	Item No.
High Speed Steel							
118° Point Angle, Conventional Point							
5	¼ in	½ in	Black Oxide	Spiral	Metal Index	Chicago-Latrobe	**6WUA2**
8	9⁄16 in	1 in	Black Oxide	—	Metal Index	Cle-Line	**50AY59**
8	9⁄16 in	1 in	Black Oxide	—	Metal Index	Cle-Line	**50AT92**
8	9⁄16 in	1 in	Black Oxide	Spiral	Metal Index	Chicago-Latrobe	**1V691**
8	9⁄16 in	1 in	Black Oxide	Spiral	Metal Index	Cle-Line	**1A050**
8	9⁄16 in	1 in	Black Oxide	Spiral	Metal Index	Westward	**4UM96**
8	9⁄16 in	1 in	Black Oxide	Spiral	Plastic Pouch	Chicago-Latrobe	**1U194**
16	17⁄32 in	1 in	Black Oxide	Spiral	Plastic Pouch	Chicago-Latrobe	**6WUC0**
33	½ in	1 in	Black Oxide	Spiral	Metal Index	Chicago-Latrobe	**6WUA9**
118° Point Angle, Split Point							
8	9⁄16"	1"	Black Oxide	—	Metal	Cle-Line	**50AY16**
8	9⁄16 in	1 in	Black Oxide	Spiral	Plastic Pouch	Chicago-Latrobe	**1V693**
8	9⁄16 in	1 in	Straw/Bronze	Spiral	Metal Index	Chicago-Latrobe	**2VTE4**
135° Point Angle, Split Point							
18	1⁄16 in	⅜ in	Black & Gold	—	Box	IRWIN	**3UME8**

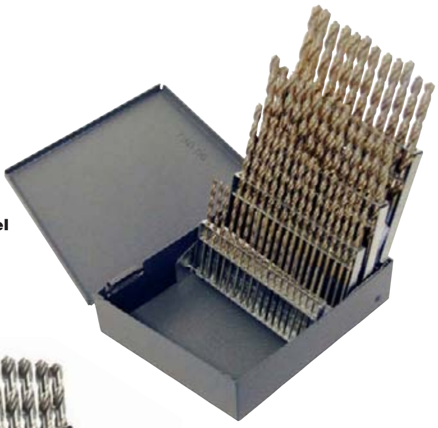
High Speed Steel
4GB65

CLE-LINE. WESTWARD

Mechanics-Length Drill Bit Sets

- Right-hand cutting direction
- Spiral flute

Number of Drill Bits	Smallest Drill Bit Size	Largest Drill Bit Size	Finish	Drill Bit Case Type	Brand	Item No.
High Speed Steel						
135° Point Angle, Split Point						
4	1⁄16 in	¼ in	Black Oxide	Metal Index	Cle-Line	**439H34**
6	1⁄16 in	⅜ in	Black Oxide	Metal Index	Cle-Line	**439H33**
11	1.00 mm	6.00 mm	Black Oxide	Metal Index	Cle-Line	**50AX70**
13	1⁄16"	¼"	Black Oxide	Metal	Cle-Line	**50AX94**
15	1⁄16 in	½ in	Black & Gold	Metal Index	Westward	**5UDP6**
15	1⁄16 in	½ in	Black Oxide	Metal Index	Cle-Line	**4GB65**
21	1⁄16"	⅜"	Black Oxide	Metal	Cle-Line	**50AX95**
29	1⁄16 in	½ in	Black Oxide	Metal Index	Cle-Line	**4GB64**
29	1⁄16 in	½ in	Black Oxide	Round Plastic Index	Cle-Line	**36XE46**



Cobalt Steel
6WUC3

High Speed Steel
1U135

Solid Carbide
45YJ57

C-L Chicago-Latrobe CLEVELAND WESTWARD CLE-LINE.

Screw-Machine-Length Drill Bit Sets

- Right-hand cutting direction
- Spiral flute

Number of Drill Bits	Smallest Drill Bit Size	Largest Drill Bit Size	Finish	Drill Bit Case Type	Brand	Item No.
Cobalt Steel						
135° Point Angle, Split Point						
26	A	Z	Straw/Bronze	Metal Index	Chicago-Latrobe	**6WUC4**
60	#60	#1	Straw/Bronze	Metal Index	Chicago-Latrobe	**6WUC3**
High Speed Steel						
118° Point Angle, Conventional Point						
26	A	Z	Bright	Metal Index	Cleveland	**439K51**
29	1⁄16 in	½ in	Bright	Metal Index	Cleveland	**439K50**
135° Point Angle, Conventional Point						
26	A	Z	Bright	Metal Index	Chicago-Latrobe	**6WUE8**
29	1⁄16 in	½ in	Bright	Metal Index	Chicago-Latrobe	**6WUE7**
60	#60	#1	Bright	Metal Index	Chicago-Latrobe	**6WUE9**
135° Point Angle, Split Point						
15	1⁄16 in	½ in	Black Oxide	Metal Index	Chicago-Latrobe	**6WUE2**
15	1⁄16 in	½ in	Bright	Metal Index	Cleveland	**440A14**
21	1⁄16 in	⅜ in	Black Oxide	—	Westward	**2UFD2**
21	1⁄16 in	⅜ in	Black Oxide	Metal Index	Chicago-Latrobe	**1V689**
21	1⁄16 in	⅜ in	Bright	Metal Index	Cleveland	**440A13**
29	1⁄16 in	½ in	Black Oxide	Metal Index	Chicago-Latrobe	**1U135**
29	1⁄16 in	½ in	Black Oxide	Metal Index	Cle-Line	**4AK21**
29	1⁄16 in	½ in	Black Oxide	Metal Index	Westward	**401J97**
29	1⁄16 in	½ in	Bright	Metal Index	Cleveland	**440A12**
29	1⁄16 in	½ in	TiN	Metal Index	Chicago-Latrobe	**6WUA1**
60	#60	#1	Black Oxide	—	Westward	**5UDP5**
60	#60	#1	Black Oxide	Metal Index	Chicago-Latrobe	**1V708**
60	#60	#1	Black Oxide	Metal Index	Cle-Line	**4AK22**
Solid Carbide						
135° Point Angle, 4 Facet Point						
15	1⁄16 in	½ in	Bright	Box	—	**45YJ45**
15	1⁄16 in	½ in	TiN	Box	—	**45YJ57**
21	1⁄16 in	⅜ in	AlTiN	Box	—	**45YJ58**
21	1⁄16 in	⅜ in	Bright	Box	—	**45YJ46**
24	1.00 mm	12.50 mm	AlTiN	Box	—	**45YJ59**
24	1.00 mm	12.50 mm	Bright	Box	—	**45YJ47**
29	1⁄16 in	½ in	AlTiN	Box	—	**45YJ60**
29	1⁄16 in	½ in	TiN	Box	—	**45YJ48**

For more information on Drill Bits, see page 2239.

Solid Carbide
45YJ49

Straight-Flute Drill Bit Sets

- Right-hand cutting direction

Number of Drill Bits	Smallest Drill Bit Size	Largest Drill Bit Size	AlTiN Item No.	Bright Item No.
Solid Carbide				
140° Point Angle, Notched Point				
15	1/16 in	1/2 in	**45YJ61**	**45YJ49**
21	1/16 in	3/8 in	**45YJ62**	**45YJ50**
29	1/16 in	1/2 in	**45YJ64**	**45YJ52**

Black & Gold Finish, Parabolic Flute, Non-Coolant Through, Straight Shank
1TNW6

CLE-LINE. WESTWARD Chicago-Latrobe CLEVELAND DEWALT

Jobber-Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black & Gold Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Cle-Line	**1TNW6**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Cle-Line	**1TNW7**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	**1TNW8**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Westward	**5UDD1**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Cle-Line	**1TNW9**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Cle-Line	**1TNX1**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Cle-Line	**1TNX2**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	**1TNX3**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Westward	**5UDD5**
13/64 in	0.2031	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**1TNX4**
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Cle-Line	**1TNX5**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Cle-Line	**1TNX6**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cle-Line	**1TNX7**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Westward	**5UDD9**
17/64 in	0.2656	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**1TNX8**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cle-Line	**1TNX9**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Cle-Line	**1TNY1**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cle-Line	**1TNY2**
5/16 in	0.3125	3 7/32 in	5/16 in	4 1/2 in	Westward	**5UDE3**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Cle-Line	**1TNY3**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cle-Line	**1TRT3**
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Cle-Line	**1TNY4**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cle-Line	**1TNY5**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Westward	**5UDE7**
25/64 in	0.3906	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	**1TNY6**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	**1TNY7**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cle-Line	**1TNY8**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cle-Line	**1TNY9**
29/64 in	0.4531	4 3/16 in	7/16 in	5 5/8 in	Cle-Line	**1TNZ1**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Cle-Line	**1TNZ2**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Cle-Line	**1TNZ3**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cle-Line	**1TNZ4**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Westward	**5UDF5**
Black & Gold Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Westward	**5UDF1**
Black Oxide Finish, Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
#21	0.1590	2 1/4 in	5/32 in	3 1/4 in	Westward	**4UL91**
#25	0.1495	1 7/8 in	9/64 in	3 in	Westward	**4UL95**
6.00 mm	0.2362	57.00 mm	15/64 in	93.00 mm	Westward	**5PLR1**
3.30 mm	0.1299	36.00 mm	1/8 in	65.00 mm	Westward	**5PLN5**
5.00 mm	0.1969	52.00 mm	3/16 in	86.00 mm	Westward	**5PLP6**
8.50 mm	0.3346	75.00 mm	21/64 in	117.00 mm	Westward	**5PLU0**
12.0 mm	0.4724	101.00 mm	15/32 in	151.00 mm	Westward	**5PLV2**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Westward	**5PLU7**
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Chicago-Latrobe	**1F493**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Chicago-Latrobe	**1F495**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**1F497**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	**5X956**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Westward	**2UFA6**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**1F499**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Cle-Line	**5X964**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	**1F501**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Cle-Line	**5X965**
11/64 in	0.1719	2 1/4 in	11/64 in	3 1/4 in	Westward	**4UL49**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	**1F503**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**1F505**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	**5X967**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Westward	**2UFA7**
13/64 in	0.2031	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1F507**
13/64 in	0.2031	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**5X968**
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Cle-Line	**5X969**
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Westward	**4UL52**
7/32 in	0.2188	2 1/2 in	7/32 in	3 5/8 in	Chicago-Latrobe	**1F509**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Chicago-Latrobe	**1F511**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	**1F513**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cle-Line	**5X971**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Westward	**4UL54**
17/64 in	0.2656	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	**1F515**
17/64 in	0.2656	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**5X972**
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Westward	**4UL55**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	**1F517**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cle-Line	**5X973**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Westward	**4UL56**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**1F521**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cle-Line	**5X975**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Westward	**2UFA8**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Chicago-Latrobe	**1F523**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Cle-Line	**5X976**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Westward	**4UL59**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Chicago-Latrobe	**1F525**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cle-Line	**5X977**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Westward	**4UL60**
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Chicago-Latrobe	**1F527**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1F529**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cle-Line	**5X979**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Westward	**2UFA9**
25/64 in	0.3906	3 3/4 in	3/8 in	5 1/8 in	Chicago-Latrobe	**1F531**
25/64 in	0.3906	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	**5X980**
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Westward	**4UL63**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**1F533**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	**5X981**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Westward	**4UL64**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Chicago-Latrobe	**1F535**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cle-Line	**5X982**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Westward	**4UL65**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Chicago-Latrobe	**1F537**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cle-Line	**5X983**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Westward	**2UFC1**
29/64 in	0.4531	4 3/16 in	7/16 in	5 5/8 in	Chicago-Latrobe	**1F539**
29/64 in	0.4531	4 3/16 in	7/16 in	5 5/8 in	Cle-Line	**5X984**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Chicago-Latrobe	**1F541**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Cle-Line	**5X985**
31/64 in	0.4844	4 3/8 in	15/32 in	5 7/8 in	Westward	**4UL69**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Chicago-Latrobe	**1F543**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Cle-Line	**5X986**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Chicago-Latrobe	**1F545**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cle-Line	**5X987**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Westward	**2UFC2**
17/32 in	0.5313	4 13/16 in	33/64 in	6 5/8 in	Chicago-Latrobe	**1F549**
9/16 in	0.5625	4 13/16 in	9/16 in	6 5/8 in	Chicago-Latrobe	**1F553**
5/8 in	0.6250	5 3/16 in	5/8 in	7 1/8 in	Chicago-Latrobe	**1F561**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1F583**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**4AF73**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Westward	**4UL77**
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1F589**
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**4AF76**
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	**4AF77**
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	**1F611**
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Cle-Line	**4AF87**
#25	0.1495	1 7/8 in	9/64 in	3 in	Chicago-Latrobe	**1F619**
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**1F627**
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Cle-Line	**4AF95**
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**1F629**
#36	0.1065	1 7/16 in	3/32 in	2 1/2 in	Chicago-Latrobe	**1F641**
1.00 mm	0.0394	12.00 mm	1 mm	34.00 mm	Chicago-Latrobe	**1K276**
2.00 mm	0.0787	24.00 mm	2 mm	49.00 mm	Chicago-Latrobe	**1K316**
2.50 mm	0.0984	30.00 mm	2.5 mm	57.00 mm	Chicago-Latrobe	**1K336**
3.00 mm	0.1181	33.00 mm	3 mm	61.00 mm	Chicago-Latrobe	**1K346**
3.30 mm	0.1299	36.00 mm	3.3 mm	65.00 mm	Chicago-Latrobe	**1K352**
3.50 mm	0.1378	39.00 mm	3.5 mm	70.00 mm	Chicago-Latrobe	**1K356**
4.00 mm	0.1575	43.00 mm	4 mm	75.00 mm	Chicago-Latrobe	**1K366**
4.20 mm	0.1654	43.00 mm	4.2 mm	75.00 mm	Chicago-Latrobe	**1K370**
4.50 mm	0.1772	47.00 mm	4.5 mm	80.00 mm	Chicago-Latrobe	**1K376**

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Jobber-Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank (Cont.)						
5.00 mm	0.1969	52.00 mm	5 mm	86.00 mm	Chicago-Latrobe	**1K386**
5.50 mm	0.2165	57.00 mm	5.5 mm	93.00 mm	Chicago-Latrobe	**1K396**
6.00 mm	0.2362	57.00 mm	6 mm	93.00 mm	Chicago-Latrobe	**1K406**
6.50 mm	0.2559	63.00 mm	6.5 mm	101.00 mm	Chicago-Latrobe	**1K416**
6.70 mm	0.2638	63.00 mm	6.7 mm	101.00 mm	Chicago-Latrobe	**1K420**
6.80 mm	0.2677	69.00 mm	6.8 mm	109.00 mm	Chicago-Latrobe	**1K422**
7.00 mm	0.2756	69.00 mm	7 mm	109.00 mm	Chicago-Latrobe	**1K426**
7.50 mm	0.2953	69.00 mm	7.5 mm	109.00 mm	Chicago-Latrobe	**1K436**
8.00 mm	0.3150	75.00 mm	8 mm	117.00 mm	Chicago-Latrobe	**1K446**
8.50 mm	0.3346	75.00 mm	8.5 mm	117.00 mm	Chicago-Latrobe	**1K456**
9.00 mm	0.3543	81.00 mm	9 mm	125.00 mm	Chicago-Latrobe	**1K466**
9.50 mm	0.3740	81.00 mm	9.5 mm	125.00 mm	Chicago-Latrobe	**1K476**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Chicago-Latrobe	**1K486**
10.20 mm	0.4016	87.00 mm	10.2 mm	133.00 mm	Chicago-Latrobe	**1K500**
10.50 mm	0.4134	87.00 mm	10.5 mm	133.00 mm	Chicago-Latrobe	**1K488**
11.00 mm	0.4331	94.00 mm	11 mm	142.00 mm	Chicago-Latrobe	**1K490**
11.50 mm	0.4528	94.00 mm	11.5 mm	142.00 mm	Chicago-Latrobe	**1K492**
12.00 mm	0.4724	101.00 mm	12 mm	151.00 mm	Chicago-Latrobe	**1K494**
12.50 mm	0.4921	101.00 mm	12.5 mm	151.00 mm	Chicago-Latrobe	**1K496**
13.00 mm	0.5118	101.00 mm	13 mm	151.00 mm	Chicago-Latrobe	**1K498**
13.00 mm	0.5118	101.00 mm	1/2 in	151.00 mm	Westward	**5PLV5**
14.00 mm	0.5512	108.00 mm	14 mm	160.00 mm	Chicago-Latrobe	**1K514**
14.0 mm	0.5512	108.00 mm	35/64 in	160.00 mm	Westward	**5PLV6**
15.00 mm	0.5906	114.00 mm	15 mm	169.00 mm	Chicago-Latrobe	**4HCA6**
16.00 mm	0.6299	120.00 mm	16 mm	178.00 mm	Chicago-Latrobe	**4HCA7**
17.00 mm	0.6693	125.00 mm	17 mm	184.00 mm	Chicago-Latrobe	**4HCC2**
B	0.2380	2 3/4 in	15/64 in	4 in	Chicago-Latrobe	**1F693**
C	0.2420	2 3/4 in	15/64 in	4 in	Chicago-Latrobe	**1F695**
D	0.2460	2 3/4 in	15/64 in	4 in	Chicago-Latrobe	**1F697**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	**1F699**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**4AH28**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Westward	**2UFP7**
G	0.2610	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**4AH29**
G	0.2610	2 7/8 in	1/4 in	4 1/8 in	Westward	**2UFP8**
H	0.2660	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**1F703**
I	0.2720	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**1F705**
I	0.2720	2 7/8 in	17/64 in	4 1/8 in	Cle-Line	**4AH30**
J	0.2770	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**1F707**
K	0.2810	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	**1F709**
L	0.2900	2 15/16 in	9/32 in	4 1/4 in	Chicago-Latrobe	**1F711**
L	0.2900	2 15/16 in	9/32 in	4 1/4 in	Cle-Line	**4F504**
N	0.3020	3 1/16 in	19/64 in	4 3/8 in	Chicago-Latrobe	**1F715**
P	0.3230	3 5/16 in	5/16 in	4 5/8 in	Chicago-Latrobe	**1F719**
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Chicago-Latrobe	**1F721**
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Cle-Line	**4AH32**
R	0.3390	3 7/16 in	21/64 in	4 3/4 in	Chicago-Latrobe	**1F723**
R	0.3390	3 7/16 in	21/64 in	4 3/4 in	Cle-Line	**4AH33**
S	0.3480	3 1/2 in	11/32 in	4 7/8 in	Chicago-Latrobe	**1F725**
T	0.3580	3 1/2 in	11/32 in	4 7/8 in	Chicago-Latrobe	**1F727**
U	0.3680	3 5/8 in	23/64 in	5 in	Chicago-Latrobe	**1F729**
U	0.3680	3 5/8 in	23/64 in	5 in	Cle-Line	**4F510**
U	0.3680	3 5/8 in	23/64 in	5 in	Westward	**2UFT9**
V	0.3770	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1F731**
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Chicago-Latrobe	**1F733**
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	**4F511**
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Westward	**2UFU1**
X	0.3970	3 3/4 in	25/64 in	5 1/8 in	Chicago-Latrobe	**1F735**
Y	0.4040	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**1F737**
Y	0.4040	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	**4F513**
Z	0.4130	3 7/8 in	13/32 in	5 1/4 in	Chicago-Latrobe	**1F739**
Z	0.4130	3 7/8 in	13/32 in	5 1/4 in	Cle-Line	**4F514**
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Chicago-Latrobe	**1G485**
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Cle-Line	**22N347**
5/64 in	0.0781	1 in	1/16 in	2 in	Chicago-Latrobe	**1G487**
5/64 in	0.0781	1 in	1/16 in	2 in	Cle-Line	**22N353**
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Chicago-Latrobe	**1G489**
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Cle-Line	**22N360**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Chicago-Latrobe	**1G491**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Cle-Line	**22N367**
1/8 in	0.1250	1 5/8 in	1/8 in	12 in	Westward	**5TVK5**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**1G493**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	**2BR13**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Westward	**5XL70**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**1G495**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Cle-Line	**22N377**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	**1G497**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Cle-Line	**22N383**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	**1G499**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Cle-Line	**22N389**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**1G501**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	**2BR17**
13/64 in	0.2031	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1G503**
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Chicago-Latrobe	**1G505**
7/32 in	0.2188	2 1/2 in	7/32 in	6 in	Westward	**5TVJ3**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Chicago-Latrobe	**1G507**
1/4 in	0.2500	2 3/4 in	1/4 in	12 in	Westward	**5TVK9**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	**1G509**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Westward	**5XL78**
17/64 in	0.2656	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	**1G511**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	**1G513**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Chicago-Latrobe	**1G515**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**1G517**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Chicago-Latrobe	**1G519**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Chicago-Latrobe	**1G521**
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Chicago-Latrobe	**1G523**
3/8 in	0.3750	3 5/8 in	3/8 in	12 in	Westward	**5TVL3**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1G525**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cle-Line	**2BR29**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Westward	**5XL82**
25/64 in	0.3906	3 3/4 in	3/8 in	5 1/8 in	Chicago-Latrobe	**1G527**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**1G529**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Chicago-Latrobe	**1G531**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Chicago-Latrobe	**1G533**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cle-Line	**2BR33**
29/64 in	0.4531	4 3/16 in	7/16 in	5 5/8 in	Chicago-Latrobe	**1G535**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Chicago-Latrobe	**1G537**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Chicago-Latrobe	**1G539**
1/2 in	0.5000	4 1/2 in	1/2 in	12 in	Westward	**5TVL7**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Chicago-Latrobe	**1G541**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Westward	**5XL84**
#3	0.2130	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	**1G555**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1G559**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**4BR54**
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**1G565**
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**1G567**
#13	0.1850	2 5/16 in	11/64 in	3 1/2 in	Chicago-Latrobe	**1G571**
#16	0.1770	2 3/16 in	11/64 in	3 3/8 in	Chicago-Latrobe	**1G577**
#20	0.1610	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	**1G585**
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	**1G587**
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Cle-Line	**22N385**
#25	0.1495	1 7/8 in	9/64 in	3 in	Chicago-Latrobe	**1G595**
#25	0.1495	1 7/8 in	9/64 in	3 in	Cle-Line	**22N380**
#27	0.1440	1 7/8 in	9/64 in	3 in	Chicago-Latrobe	**1G599**
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**1G603**
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Cle-Line	**22N375**
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**1G605**
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	**4BR77**
#36	0.1065	1 7/16 in	3/32 in	2 1/2 in	Cle-Line	**22N366**
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Chicago-Latrobe	**1G625**
#49	0.0730	1 in	1/16 in	2 in	Chicago-Latrobe	**1G643**
#54	0.0550	7/8 in	3/64 in	1 7/8 in	Chicago-Latrobe	**1G178**
#56	0.0465	3/4 in	1/32 in	1 3/4 in	Chicago-Latrobe	**1G343**
5.00 mm	0.1969	52.00 mm	5 mm	86.00 mm	Chicago-Latrobe	**6ZJL2**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Chicago-Latrobe	**6ZJP4**
13.00 mm	0.5118	101.00 mm	13 mm	151.00 mm	Chicago-Latrobe	**6ZJR1**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	**1G659**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Westward	**5PLW1**
I	0.2720	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**1G665**
O	0.3160	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**1G677**
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Chicago-Latrobe	**1G681**
T	0.3580	3 1/2 in	11/32 in	4 7/8 in	Chicago-Latrobe	**1G687**
U	0.3680	3 5/8 in	23/64 in	5 in	Chicago-Latrobe	**1G689**
V	0.3770	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1G691**
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Chicago-Latrobe	**1G693**
X	0.3970	3 3/4 in	25/64 in	5 1/8 in	Chicago-Latrobe	**1G695**
Y	0.4040	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**1G697**
Z	0.4130	3 7/8 in	13/32 in	5 1/4 in	Chicago-Latrobe	**1G699**
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank						
13/64 in	0.2031	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**22N403**
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Cle-Line	**22N408**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Cle-Line	**22N412**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cle-Line	**22N416**
17/64 in	0.2656	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**22N419**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cle-Line	**22N424**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Cle-Line	**22N427**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cle-Line	**22N429**
21/64 in	0.3281	3 5/16 in	5/16 in	4 5/8 in	Cle-Line	**22N432**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cle-Line	**22N435**
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Cle-Line	**22N438**
25/64 in	0.3906	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	**22N443**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	**22N446**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cle-Line	**22N448**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cle-Line	**22N449**
29/64 in	0.4531	4 3/16 in	7/16 in	5 5/8 in	Cle-Line	**22N450**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Cle-Line	**22N451**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Cle-Line	**22N452**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cle-Line	**22N453**
#1	0.2280	2 5/8 in	7/32 in	3 7/8 in	Cle-Line	**22N410**
#2	0.2210	2 5/8 in	7/32 in	3 7/8 in	Cle-Line	**22N409**
#3	0.2130	2 1/2 in	13/64 in	3 3/4 in	Cle-Line	**22N407**
#6	0.2040	2 1/2 in	13/64 in	3 3/4 in	Cle-Line	**22N404**
#8	0.1990	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**22N401**
#9	0.1960	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**22N399**
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	**22N398**
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	**22N397**
D	0.2460	2 3/4 in	15/64 in	4 in	Cle-Line	**22N415**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**22N417**
G	0.2610	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	**22N418**
I	0.2720	2 7/8 in	17/64 in	4 1/8 in	Cle-Line	**22N421**
O	0.3160	3 3/16 in	5/16 in	4 1/2 in	Cle-Line	**22N430**
P	0.3230	3 5/16 in	5/16 in	4 5/8 in	Cle-Line	**22N431**
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Cle-Line	**22N433**
R	0.3390	3 7/16 in	21/64 in	4 3/4 in	Cle-Line	**22N434**
S	0.3480	3 1/2 in	11/32 in	4 7/8 in	Cle-Line	**22N436**
T	0.3580	3 1/2 in	11/32 in	4 7/8 in	Cle-Line	**22N437**
U	0.3680	3 5/8 in	23/64 in	5 in	Cle-Line	**22N439**
V	0.3770	3 5/8 in	3/8 in	5 in	Cle-Line	**22N441**
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	**22N442**
X	0.3970	3 3/4 in	25/64 in	5 1/8 in	Cle-Line	**22N444**
Y	0.4040	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	**22N445**
Z	0.4130	3 7/8 in	13/32 in	5 1/4 in	Cle-Line	**22N447**
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
1/64 in	0.0156	3/16 in	1/64 in	3/4 in	Chicago-Latrobe	**1F741**
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Chicago-Latrobe	**4DG90**
5/64 in	0.0781	1 in	1/16 in	2 in	Chicago-Latrobe	**4DG91**
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Chicago-Latrobe	**4DG92**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Chicago-Latrobe	**4DG93**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**4DG94**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cleveland	**434T18**
9/64 in	0.1406	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**4DG95**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	**4DG96**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	**4DG97**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**4DG98**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cleveland	**434T22**

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Jobber-Length High-Speed Steel Drill Bits

CLE-LINE. WESTWARD Chicago-Latrobe CLEVELAND DEWALT

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank (Cont.)						
118° Point Angle, Conventional Point						
13⁄64 in	0.2031	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1F765**
7⁄32 in	0.2188	2 1⁄2 in	7⁄32 in	3 3⁄4 in	Chicago-Latrobe	**434G36**
15⁄64 in	0.2344	2 5⁄8 in	15⁄64 in	3 7⁄8 in	Chicago-Latrobe	**1F769**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Chicago-Latrobe	**4DH03**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Cleveland	**434T25**
17⁄64 in	0.2656	2 7⁄8 in	1⁄4 in	4 1⁄8 in	Chicago-Latrobe	**4DH04**
9⁄32 in	0.2813	2 15⁄16 in	17⁄64 in	4 1⁄4 in	Chicago-Latrobe	**1F775**
19⁄64 in	0.2969	3 1⁄16 in	19⁄64 in	4 3⁄8 in	Chicago-Latrobe	**4DH06**
5⁄16 in	0.3125	3 3⁄16 in	5⁄16 in	4 1⁄2 in	Chicago-Latrobe	**1F779**
21⁄64 in	0.3281	3 5⁄16 in	5⁄16 in	4 5⁄8 in	Chicago-Latrobe	**4DH08**
11⁄32 in	0.3438	3 7⁄16 in	11⁄32 in	4 3⁄4 in	Chicago-Latrobe	**4DH09**
23⁄64 in	0.3594	3 1⁄2 in	23⁄64 in	4 7⁄8 in	Chicago-Latrobe	**1F785**
3⁄8 in	0.3750	3 5⁄8 in	3⁄8 in	5 in	Chicago-Latrobe	**4DH11**
25⁄64 in	0.3906	3 3⁄4 in	3⁄8 in	5 1⁄8 in	Chicago-Latrobe	**4DH12**
13⁄32 in	0.4063	3 7⁄8 in	25⁄64 in	5 1⁄4 in	Chicago-Latrobe	**1F791**
27⁄64 in	0.4219	3 15⁄16 in	27⁄64 in	5 3⁄8 in	Chicago-Latrobe	**1F793**
7⁄16 in	0.4375	4 1⁄16 in	7⁄16 in	5 1⁄2 in	Chicago-Latrobe	**4DH15**
29⁄64 in	0.4531	4 3⁄16 in	7⁄16 in	5 5⁄8 in	Chicago-Latrobe	**1F797**
15⁄32 in	0.4688	4 5⁄16 in	15⁄32 in	5 3⁄4 in	Chicago-Latrobe	**1F799**
31⁄64 in	0.4844	4 3⁄8 in	31⁄64 in	5 7⁄8 in	Chicago-Latrobe	**1F801**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	Chicago-Latrobe	**1F803**
17⁄32 in	0.5313	4 13⁄16 in	33⁄64 in	6 5⁄8 in	Chicago-Latrobe	**4FWY1**
9⁄16 in	0.5625	4 13⁄16 in	9⁄16 in	6 5⁄8 in	Chicago-Latrobe	**4FWY3**
5⁄8 in	0.6250	5 3⁄16 in	5⁄8 in	7 1⁄8 in	Chicago-Latrobe	**4FWY7**
#7	0.2010	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1F817**
#10	0.1935	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1F823**
#25	0.1495	1 7⁄8 in	9⁄64 in	3 in	Chicago-Latrobe	**1F853**
#27	0.1440	1 7⁄8 in	9⁄64 in	3 in	Chicago-Latrobe	**1F857**
#29	0.1360	1 3⁄4 in	1⁄8 in	2 7⁄8 in	Chicago-Latrobe	**1F861**
#30	0.1285	1 5⁄8 in	1⁄8 in	2 3⁄4 in	Chicago-Latrobe	**1F863**
#36	0.1065	1 7⁄16 in	3⁄32 in	2 1⁄2 in	Chicago-Latrobe	**1F875**
#40	0.0980	1 3⁄8 in	3⁄32 in	2 3⁄8 in	Chicago-Latrobe	**1F883**
#50	0.0700	1 in	1⁄16 in	2 in	Chicago-Latrobe	**1F903**
#53	0.0595	7⁄8 in	3⁄64 in	1 7⁄8 in	Chicago-Latrobe	**1F909**
#55	0.0520	7⁄8 in	3⁄64 in	1 7⁄8 in	Chicago-Latrobe	**1F913**
#67	0.0320	1⁄2 in	1⁄32 in	1 3⁄8 in	Chicago-Latrobe	**1F937**
#72	0.0250	5⁄16 in	1⁄64 in	1 1⁄8 in	Chicago-Latrobe	**1F948**
#77	0.0180	3⁄16 in	1⁄64 in	7⁄8 in	Chicago-Latrobe	**1F958**
135° Point Angle, Split Point						
1⁄8 in	0.1250	1 5⁄8 in	1⁄8 in	6 in	Cleveland	**1NPC5**
3⁄16 in	0.1875	2 5⁄16 in	3⁄16 in	6 in	Cleveland	**1NPC7**
7⁄32 in	0.2188	2 1⁄2 in	7⁄32 in	6 in	Cleveland	**1NPC8**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	6 in	Cleveland	**1NPC9**
9⁄32 in	0.2813	2 15⁄16 in	17⁄64 in	6 in	Cleveland	**1NPD1**
#10	0.1935	2 7⁄16 in	3⁄16 in	6 in	Cleveland	**1NPD9**
#20	0.1610	2 1⁄8 in	5⁄32 in	6 in	Cleveland	**1NPE1**
#21	0.1590	2 1⁄8 in	5⁄32 in	6 in	Cleveland	**1NPE2**
#29	0.1360	1 3⁄4 in	1⁄8 in	6 in	Cleveland	**1NPE4**
#30	0.1285	1 5⁄8 in	1⁄8 in	6 in	Cleveland	**1NPE5**
#40	0.0980	1 3⁄8 in	3⁄32 in	6 in	Cleveland	**1NPE6**
TiAlN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1⁄8 in	0.1250	1 5⁄8 in	1⁄8 in	2 3⁄4 in	Chicago-Latrobe	**10P091**
3⁄16 in	0.1875	2 5⁄16 in	3⁄16 in	3 1⁄2 in	Chicago-Latrobe	**10P095**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Chicago-Latrobe	**10P099**
17⁄64 in	0.2656	2 7⁄8 in	1⁄4 in	4 1⁄8 in	Chicago-Latrobe	**10P101**
5⁄16 in	0.3125	3 3⁄16 in	5⁄16 in	4 1⁄2 in	Chicago-Latrobe	**10P104**
21⁄64 in	0.3281	3 5⁄16 in	5⁄16 in	4 5⁄8 in	Chicago-Latrobe	**10P105**
23⁄64 in	0.3594	3 1⁄2 in	23⁄64 in	4 7⁄8 in	Chicago-Latrobe	**10P107**
3⁄8 in	0.3750	3 5⁄8 in	3⁄8 in	5 in	Chicago-Latrobe	**10P108**
25⁄64 in	0.3906	3 3⁄4 in	3⁄8 in	5 1⁄8 in	Chicago-Latrobe	**10P109**
27⁄64 in	0.4219	3 15⁄16 in	27⁄64 in	5 3⁄8 in	Chicago-Latrobe	**10P111**
7⁄16 in	0.4375	4 1⁄16 in	7⁄16 in	5 1⁄2 in	Chicago-Latrobe	**10P112**
31⁄64 in	0.4844	4 3⁄8 in	31⁄64 in	5 7⁄8 in	Chicago-Latrobe	**10P115**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	Chicago-Latrobe	**10P116**
TiCN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
13⁄64 in	0.2031	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**10P040**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Chicago-Latrobe	**10P043**
17⁄64 in	0.2656	2 7⁄8 in	1⁄4 in	4 1⁄8 in	Chicago-Latrobe	**10P044**
5⁄16 in	0.3125	3 3⁄16 in	5⁄16 in	4 1⁄2 in	Chicago-Latrobe	**10P047**
21⁄64 in	0.3281	3 5⁄16 in	5⁄16 in	4 5⁄8 in	Chicago-Latrobe	**10P048**
3⁄8 in	0.3750	3 5⁄8 in	3⁄8 in	5 in	Chicago-Latrobe	**10P051**
25⁄64 in	0.3906	3 3⁄4 in	3⁄8 in	5 1⁄8 in	Chicago-Latrobe	**10P052**
13⁄32 in	0.4063	3 7⁄8 in	25⁄64 in	5 1⁄4 in	Chicago-Latrobe	**10P053**
7⁄16 in	0.4375	4 1⁄16 in	7⁄16 in	5 1⁄2 in	Chicago-Latrobe	**10P055**
29⁄64 in	0.4531	4 3⁄16 in	7⁄16 in	5 5⁄8 in	Chicago-Latrobe	**10P056**
31⁄64 in	0.4844	4 3⁄8 in	31⁄64 in	5 7⁄8 in	Chicago-Latrobe	**10P058**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	Chicago-Latrobe	**10P059**
TiN Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1⁄8 in	0.1250	1 5⁄8 in	1⁄8 in	2 3⁄4 in	Cle-Line	**1TPA2**
9⁄64 in	0.1406	1 3⁄4 in	1⁄8 in	2 7⁄8 in	Cle-Line	**1TPA3**
11⁄64 in	0.1719	2 1⁄8 in	11⁄64 in	3 1⁄4 in	Cle-Line	**1TPA5**
3⁄16 in	0.1875	2 5⁄16 in	3⁄16 in	3 1⁄2 in	Cle-Line	**1TPA6**
13⁄64 in	0.2031	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Cle-Line	**1TPA7**
7⁄32 in	0.2188	2 1⁄2 in	7⁄32 in	3 3⁄4 in	Cle-Line	**1TPA8**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Cle-Line	**1TPB1**
17⁄64 in	0.2656	2 7⁄8 in	1⁄4 in	4 1⁄8 in	Cle-Line	**1TPB2**
9⁄32 in	0.2813	2 15⁄16 in	17⁄64 in	4 1⁄4 in	Cle-Line	**1TPB3**
19⁄64 in	0.2969	3 1⁄16 in	19⁄64 in	4 3⁄8 in	Cle-Line	**1TPB4**
5⁄16 in	0.3125	3 3⁄16 in	5⁄16 in	4 1⁄2 in	Cle-Line	**1TPB5**
21⁄64 in	0.3281	3 5⁄16 in	5⁄16 in	4 5⁄8 in	Cle-Line	**1TPB6**
11⁄32 in	0.3438	3 7⁄16 in	11⁄32 in	4 3⁄4 in	Cle-Line	**1TPB7**
23⁄64 in	0.3594	3 1⁄2 in	23⁄64 in	4 7⁄8 in	Cle-Line	**1TPB8**
3⁄8 in	0.3750	3 5⁄8 in	3⁄8 in	5 in	Cle-Line	**1TPB9**
25⁄64 in	0.3906	3 3⁄4 in	3⁄8 in	5 1⁄8 in	Cle-Line	**1TPC1**
13⁄32 in	0.4063	3 7⁄8 in	25⁄64 in	5 1⁄4 in	Cle-Line	**1TPC2**
27⁄64 in	0.4219	3 15⁄16 in	27⁄64 in	5 3⁄8 in	Cle-Line	**1TPC3**
7⁄16 in	0.4375	4 1⁄16 in	7⁄16 in	5 1⁄2 in	Cle-Line	**1TPC4**
29⁄64 in	0.4531	4 3⁄16 in	7⁄16 in	5 5⁄8 in	Cle-Line	**1TPC5**
31⁄64 in	0.4844	4 3⁄8 in	31⁄64 in	5 7⁄8 in	Cle-Line	**1TPC7**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	Cle-Line	**1TPC8**
#29	0.1360	1 3⁄4 in	1⁄8 in	2 7⁄8 in	Westward	**6PRR7**
5.00 mm	0.1969	52.00 mm	3⁄16 in	86.00 mm	Westward	**6PRY3**
6.50 mm	0.2559	63.00 mm	1⁄4 in	101.00 mm	Westward	**6PRY8**
8.20 mm	0.3228	75.00 mm	5⁄16 in	117.00 mm	Westward	**6PRZ3**
8.50 mm	0.3346	75.00 mm	21⁄64 in	117.00 mm	Westward	**6PRZ4**
10.00 mm	0.3937	87.00 mm	25⁄64 in	133.00 mm	Westward	**6PRZ8**
8 mm	0.3150	75.00 mm	5⁄16 in	117.00 mm	Westward	**6PRZ2**
12.00 mm	0.4724	101.00 mm	15⁄32 in	151.00 mm	Westward	**6PTA2**
13.00 mm	0.5118	101.00 mm	1⁄2 in	151.00 mm	Westward	**6PTA4**
TiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
5⁄64 in	0.0781	1 in	1⁄16 in	2 in	Chicago-Latrobe	**1V834**
3⁄32 in	0.0938	1 1⁄4 in	3⁄32 in	2 1⁄4 in	Chicago-Latrobe	**1V836**
7⁄64 in	0.1094	1 1⁄2 in	7⁄64 in	2 5⁄8 in	Chicago-Latrobe	**1V838**
1⁄8 in	0.1250	1 5⁄8 in	1⁄8 in	2 3⁄4 in	Chicago-Latrobe	**1V840**
9⁄64 in	0.1406	1 3⁄4 in	1⁄8 in	2 7⁄8 in	Chicago-Latrobe	**1V842**
5⁄32 in	0.1563	2 in	9⁄64 in	3 1⁄8 in	Chicago-Latrobe	**1V844**
11⁄64 in	0.1719	2 1⁄8 in	11⁄64 in	3 1⁄4 in	Chicago-Latrobe	**1V846**
3⁄16 in	0.1875	2 5⁄16 in	3⁄16 in	3 1⁄2 in	Chicago-Latrobe	**1V848**
13⁄64 in	0.2031	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1V851**
7⁄32 in	0.2188	2 1⁄2 in	7⁄32 in	3 3⁄4 in	Chicago-Latrobe	**1V853**
15⁄64 in	0.2344	2 5⁄8 in	15⁄64 in	3 7⁄8 in	Chicago-Latrobe	**1V855**
1⁄4 in	0.2500	2 3⁄4 in	1⁄4 in	4 in	Chicago-Latrobe	**1V857**
17⁄64 in	0.2656	2 7⁄8 in	1⁄4 in	4 1⁄8 in	Chicago-Latrobe	**1V862**
9⁄32 in	0.2813	2 15⁄16 in	17⁄64 in	4 1⁄4 in	Chicago-Latrobe	**1V864**
19⁄64 in	0.2969	3 1⁄16 in	19⁄64 in	4 3⁄8 in	Chicago-Latrobe	**1V866**
5⁄16 in	0.3125	3 3⁄16 in	5⁄16 in	4 1⁄2 in	Chicago-Latrobe	**1V868**
21⁄64 in	0.3281	3 5⁄16 in	5⁄16 in	4 5⁄8 in	Chicago-Latrobe	**1V870**
11⁄32 in	0.3438	3 7⁄16 in	11⁄32 in	4 3⁄4 in	Chicago-Latrobe	**1V873**
23⁄64 in	0.3594	3 1⁄2 in	23⁄64 in	4 7⁄8 in	Chicago-Latrobe	**1V875**
3⁄8 in	0.3750	3 5⁄8 in	3⁄8 in	5 in	Chicago-Latrobe	**1V877**
25⁄64 in	0.3906	3 3⁄4 in	3⁄8 in	5 1⁄8 in	Chicago-Latrobe	**1V879**
13⁄32 in	0.4063	3 7⁄8 in	25⁄64 in	5 1⁄4 in	Chicago-Latrobe	**1V882**
27⁄64 in	0.4219	3 15⁄16 in	27⁄64 in	5 3⁄8 in	Chicago-Latrobe	**1V884**
7⁄16 in	0.4375	4 1⁄16 in	7⁄16 in	5 1⁄2 in	Chicago-Latrobe	**1V886**
29⁄64 in	0.4531	4 3⁄16 in	7⁄16 in	5 5⁄8 in	Chicago-Latrobe	**1V888**
15⁄32 in	0.4688	4 5⁄16 in	15⁄32 in	5 3⁄4 in	Chicago-Latrobe	**1V890**
31⁄64 in	0.4844	4 3⁄8 in	31⁄64 in	5 7⁄8 in	Chicago-Latrobe	**1V893**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	Chicago-Latrobe	**1V895**
#5	0.2055	2 1⁄2 in	13⁄64 in	3 3⁄4 in	Chicago-Latrobe	**1V727**
#7	0.2010	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1V731**
#10	0.1935	2 7⁄16 in	3⁄16 in	3 5⁄8 in	Chicago-Latrobe	**1V737**
#16	0.1770	2 3⁄16 in	11⁄64 in	3 3⁄8 in	Chicago-Latrobe	**1V749**
#19	0.1660	2 1⁄8 in	5⁄32 in	3 1⁄4 in	Chicago-Latrobe	**1V755**
#21	0.1590	2 1⁄8 in	5⁄32 in	3 1⁄4 in	Chicago-Latrobe	**1V759**
#25	0.1495	1 7⁄8 in	9⁄64 in	3 in	Chicago-Latrobe	**1V767**
#29	0.1360	1 3⁄4 in	1⁄8 in	2 7⁄8 in	Chicago-Latrobe	**1V775**
#30	0.1285	1 5⁄8 in	1⁄8 in	2 3⁄4 in	Chicago-Latrobe	**1V778**
#36	0.1065	1 7⁄16 in	3⁄32 in	2 1⁄2 in	Chicago-Latrobe	**1V793**
#43	0.0890	1 1⁄4 in	5⁄64 in	2 1⁄4 in	Chicago-Latrobe	**1V807**
135° Point Angle, Split Point						
5⁄16 in	0.3438	3 1⁄32 in	5⁄16 in	4 9⁄16 in	Westward	**5UDH2**
1⁄2 in	0.5000	4 1⁄2 in	1⁄2 in	6 in	DeWalt	**4NX51**

For more information on Drill Bits, see page 2239.

Black Oxide Finish, Spiral Flute
Non-Coolant Through, Straight Shank
2VTX7

Straw/Bronze Finish, Spiral Flute,
Non-Coolant Through, Straight Shank
53PR33

Jobber-Length Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
7/64 in	0.1094	13/16 in	7/64 in	2 5/8 in	Cleveland	2VTU9
1/8 in	0.1250	7/8 in	1/8 in	2 3/4 in	Cleveland	2VTV1
5/32 in	0.1563	1 in	9/64 in	3 1/8 in	Cleveland	2VTV3
11/64 in	0.1719	1 1/16 in	11/64 in	3 1/4 in	Cleveland	2VTV4
3/16 in	0.1875	1 1/8 in	3/16 in	3 1/2 in	Cleveland	2VTV5
7/32 in	0.2188	1 1/4 in	13/64 in	3 3/4 in	Cleveland	2VTV7
15/64 in	0.2344	1 5/16 in	15/64 in	3 7/8 in	Cleveland	2VTV8
1/4 in	0.2500	1 3/8 in	1/4 in	4 in	Cleveland	2VTV9
17/64 in	0.2656	1 7/16 in	17/64 in	4 1/8 in	Cleveland	2VTW1
9/32 in	0.2813	1 1/2 in	17/64 in	4 1/4 in	Cleveland	2VTW2
19/64 in	0.2969	1 9/16 in	19/64 in	4 3/8 in	Cleveland	2VTW3
5/16 in	0.3125	1 9/16 in	5/16 in	4 1/2 in	Cleveland	2VTW4
21/64 in	0.3281	1 11/16 in	21/64 in	4 5/8 in	Cleveland	2VTW5
11/32 in	0.3438	1 11/16 in	11/32 in	4 3/4 in	Cleveland	2VTW6
3/8 in	0.3750	1 13/16 in	3/8 in	5 in	Cleveland	2VTW8
25/64 in	0.3906	1 7/8 in	25/64 in	5 1/8 in	Cleveland	2VTW9
13/32 in	0.4063	1 15/16 in	25/64 in	5 1/4 in	Cleveland	2VTX1
7/16 in	0.4375	2 1/16 in	7/16 in	5 1/2 in	Cleveland	2VTX3
29/64 in	0.4531	2 1/8 in	29/64 in	5 5/8 in	Cleveland	2VTX4
1/2 in	0.5000	2 1/4 in	1/2 in	6 in	Cleveland	2VTX7
#30	0.1285	15/16 in	1/8 in	2 3/4 in	Cleveland	435A90
Straw/Bronze Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Cleveland	2VTL6
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cleveland	2VTL8
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Cleveland	2VTN1
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Cleveland	2VTN2
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cleveland	2VTN3
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Cleveland	2VTN4
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Cleveland	2VTN5
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Cleveland	2VTN6
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cleveland	2VTN7
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Cleveland	2VTN8
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cleveland	2VTN9
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Cleveland	2VTP1
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cleveland	2VTP2
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Cleveland	2VTP3
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cleveland	2VTP4
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cleveland	2VTP6
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Cleveland	2VTP7
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cleveland	2VTP8
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cleveland	2VTP9
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cleveland	2VTR1
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Cleveland	2VTR4
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cleveland	2VTR5
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Cleveland	2VTF3
#8	0.1990	2 7/16 in	3/16 in	3 5/8 in	Cleveland	2VTF4
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Cleveland	2VTF6
#13	0.1850	2 5/16 in	11/64 in	3 1/2 in	Cleveland	2VTF9
#15	0.1800	2 3/16 in	11/64 in	3 3/8 in	Cleveland	2VTG2
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Cleveland	2VTG8
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Chicago-Latrobe	2THL7
5/64 in	0.0781	1 in	5/64 in	2 in	Chicago-Latrobe	2THL8
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Chicago-Latrobe	1G861
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Chicago-Latrobe	2THN1
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Cle-Line	53FP37
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	2THN2
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	53FP32
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Westward	401J55
9/64 in	0.1406	1 3/4 in	9/64 in	2 7/8 in	Chicago-Latrobe	2THN3
9/64 in	0.1406	1 3/4 in	9/64 in	2 7/8 in	Cle-Line	53FP39
9/64 in	0.1406	1 3/4 in	9/64 in	2 7/8 in	Westward	401J69
5/32 in	0.1563	2 in	5/32 in	3 1/8 in	Westward	401J70
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	1G869
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Cle-Line	53FP35
11/64 in	0.1719	2 1/4 in	11/64 in	3 1/4 in	Westward	401J71
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	2THN5
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	1G873
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cle-Line	53FP30
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Westward	401J56
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Chicago-Latrobe	1G875
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Cle-Line	53FP48
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Westward	401J72
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	1G877
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Cle-Line	53PR11
7/32 in	0.2188	2 1/2 in	7/32 in	3 3/4 in	Westward	401J73
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Chicago-Latrobe	1G879
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Cle-Line	53FP45
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	1G881
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cle-Line	53FP29
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Westward	401J57
1/4 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Westward	401J74
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Westward	401J68
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	1G883
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Cle-Line	53FP40
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Westward	401J75
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	2THP3
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cle-Line	53FP47
9/32 in	0.2813	2 15/16 in	9/32 in	4 1/4 in	Westward	401J76
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Chicago-Latrobe	2THP4
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Cle-Line	53FP42
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Westward	401J77
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	1G889
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cle-Line	4AC80
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Westward	401J58
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Chicago-Latrobe	2THP6
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Cle-Line	53FP51
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Chicago-Latrobe	1G893
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cle-Line	53FP46
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Chicago-Latrobe	2THP8
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Cle-Line	53FP43
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Westward	401J80
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	1G897
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cle-Line	53FP33
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Westward	401J59
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Chicago-Latrobe	2THR1
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Cle-Line	53FP38
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Westward	401J81
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Westward	401J78
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	1G901
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cle-Line	53FP41
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Chicago-Latrobe	2THR3
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cle-Line	53FP44
7/16 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Westward	401J79
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Chicago-Latrobe	2THR4
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cle-Line	53FP34
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Westward	401J60
29/64 in	0.4531	4 3/16 in	29/64 in	5 5/8 in	Chicago-Latrobe	1G907
29/64 in	0.4531	4 3/16 in	29/64 in	5 5/8 in	Cle-Line	53FP53
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Chicago-Latrobe	1G909
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Cle-Line	53FP52
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Chicago-Latrobe	2THR7
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Cle-Line	53FP54
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Chicago-Latrobe	2THR8
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cle-Line	53FP31
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Westward	401J61
33/64 in	0.5156	4 13/16 in	33/64 in	6 5/8 in	Chicago-Latrobe	4DN51
17/32 in	0.5313	4 13/16 in	33/64 in	6 5/8 in	Chicago-Latrobe	4DN52
9/16 in	0.5625	4 13/16 in	9/16 in	6 5/8 in	Chicago-Latrobe	4DN54
5/8 in	0.6250	5 3/16 in	5/8 in	7 1/8 in	Chicago-Latrobe	4DN58
11/16 in	0.6875	5 5/8 in	11/16 in	7 5/8 in	Chicago-Latrobe	4DN62
#3	0.2130	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	1G921
#6	0.2040	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	2THT5
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	2THT6
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Cle-Line	53PP39
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Westward	5PLY8
#8	0.1990	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	1G931
#10	0.1935	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	1G935
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	1G937
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Westward	5PLZ2
#12	0.1890	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	1G939
#13	0.1850	2 5/16 in	11/64 in	3 1/2 in	Chicago-Latrobe	1G941
#16	0.1770	2 3/16 in	11/64 in	3 3/8 in	Chicago-Latrobe	1G947
#19	0.1660	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	1G953
#20	0.1610	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	1G955
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	2THV2
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Cle-Line	53PP53
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Westward	5PMA2
#27	0.1440	1 7/8 in	9/64 in	3 in	Chicago-Latrobe	2THV8
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	1G973
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	2THW2
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Cle-Line	53PP62
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Chicago-Latrobe	2THX3
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Cle-Line	53PP72
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Westward	5PMD1
Straw/Bronze Finish, Flute, Non-Coolant Through, Straight Shank						
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Westward	5PMC1
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
1.20 mm	0.4063	3 7/8 in	13/32 in	5 1/4 in	Westward	401J82
1.60 mm	0.4219	3 15/16 in	27/64 in	5 3/8 in	Westward	401J83
2.30 mm	0.4531	4 1/8 in	29/64 in	5 5/8 in	Westward	401J84
2.70 mm	0.4688	4 5/16 in	15/32 in	5 3/4 in	Westward	401J85
2.90 mm	0.4844	4 3/8 in	31/64 in	5 7/8 in	Westward	401J86
5.00 mm	0.1969	52.00 mm	5 mm	86.00 mm	Chicago-Latrobe	6ZKG9
6.80 mm	0.2677	69.00 mm	6.8 mm	109.00 mm	Cle-Line	53PR57
8.00 mm	0.3150	75.00 mm	8 mm	117.00 mm	Chicago-Latrobe	6WTX4
8.50 mm	0.3346	75.00 mm	8.5 mm	117.00 mm	Chicago-Latrobe	6WTX7
12.00 mm	0.4724	101.00 mm	12 mm	151.00 mm	Chicago-Latrobe	6WTY8
13.00 mm	0.5118	101.00 mm	13 mm	151.00 mm	Chicago-Latrobe	6WTZ1
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	4CNK4
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Cle-Line	53PR33
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Chicago-Latrobe	4CNL6
Q	0.3320	3 7/16 in	21/64 in	4 3/4 in	Cle-Line	53PR26
U	0.3680	3 5/8 in	23/64 in	5 in	Chicago-Latrobe	4CNN1
W	0.3860	3 3/4 in	3/8 in	5 1/8 in	Cle-Line	53PR22

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For more information on Drill Bits, see page 2239.

Jobber-Length Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
TiAlN Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cleveland	**2VTT1**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cleveland	**2VTT3**
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Cleveland	**2VTT4**
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Cleveland	**2VTT5**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Cleveland	**2VTT7**
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Cleveland	**2VTT8**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Cleveland	**2VTT9**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cleveland	**2VTU1**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Cleveland	**2VTU2**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cleveland	**2VTU3**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cleveland	**2VTU4**
#11	0.1910	2 5/16 in	3/16 in	3 1/2 in	Cleveland	**434W88**
6.50 mm	0.2559	63.00 mm	6.5 mm	101.00 mm	Cleveland	**434W69**
8.50 mm	0.3346	75.00 mm	8.5 mm	117.00 mm	Cleveland	**434W73**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Cleveland	**434W75**
TiAlN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Chicago-Latrobe	**1TNL9**
5/64 in	0.0781	1 in	5/64 in	2 in	Chicago-Latrobe	**1TNN1**
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Chicago-Latrobe	**1TNN2**
7/64 in	0.1094	1 1/2 in	7/64 in	2 5/8 in	Chicago-Latrobe	**1TNN3**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**1TNN4**
9/64 in	0.1406	1 3/4 in	9/64 in	2 7/8 in	Chicago-Latrobe	**1TNN5**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	**1TNN6**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	**1TNN7**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**1TNN8**
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Chicago-Latrobe	**1TNN9**
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	**1TNP1**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Chicago-Latrobe	**1TNP2**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	**1TNP3**
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**1TNP4**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	**1TNP5**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Chicago-Latrobe	**1TNP6**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**1TNP7**
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Chicago-Latrobe	**1TNP8**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Chicago-Latrobe	**1TNP9**
23/64 in	0.3594	3 1/2 in	23/64 in	4 7/8 in	Chicago-Latrobe	**1TNR1**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1TNR2**
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Chicago-Latrobe	**1TNR3**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**1TNR4**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Chicago-Latrobe	**1TNR5**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Chicago-Latrobe	**1TNR6**
29/64 in	0.4531	4 3/16 in	29/64 in	5 5/8 in	Chicago-Latrobe	**1TNR7**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Chicago-Latrobe	**1TNR8**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Chicago-Latrobe	**1TNR9**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Chicago-Latrobe	**1TNT1**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**434D61**
#29	0.1360	1 3/4 in	1/8 in	2 7/8 in	Chicago-Latrobe	**434D83**
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Chicago-Latrobe	**434D94**
F	0.2570	2 7/8 in	1/4 in	4 1/8 in	Chicago-Latrobe	**6ZKA3**
TiN Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Cleveland	**435F02**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Cleveland	**435F06**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Cleveland	**435F13**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Cleveland	**435F14**
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Cleveland	**435F15**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Cleveland	**435F18**
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Cleveland	**435F19**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Cleveland	**435F20**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Cleveland	**435F21**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Cleveland	**435F22**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Cleveland	**435F26**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Cleveland	**435F49**

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
TiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
130° Point Angle, Notched Point						
3/32 in	0.0938	1 1/4 in	1/8 in	2 1/2 in	OSG	**2PNU4**
7/64 in	0.1094	1 1/2 in	3/16 in	2 15/16 in	OSG	**3CHX4**
1/8 in	0.1250	1 5/8 in	3/16 in	3 1/16 in	OSG	**2PNU7**
9/64 in	0.1406	1 3/4 in	3/16 in	3 3/16 in	OSG	**2PNV1**
5/32 in	0.1563	2 in	3/16 in	3 7/16 in	OSG	**2PNV2**
11/64 in	0.1719	2 1/8 in	3/16 in	3 9/16 in	OSG	**2PNV4**
3/16 in	0.1875	2 5/16 in	3/16 in	3 3/4 in	OSG	**2PNV6**
13/64 in	0.2031	2 7/16 in	1/4 in	4 1/4 in	OSG	**2PNW1**
7/32 in	0.2188	2 1/2 in	1/4 in	4 5/16 in	OSG	**2PNW3**
15/64 in	0.2344	2 5/8 in	1/4 in	4 7/16 in	OSG	**2PNW4**
1/4 in	0.2500	2 3/4 in	1/4 in	4 9/16 in	OSG	**2PNW5**
17/64 in	0.2656	2 7/8 in	3/8 in	4 11/16 in	OSG	**2PNW7**
9/32 in	0.2813	2 15/16 in	3/8 in	4 3/4 in	OSG	**2PNW8**
19/64 in	0.2969	3 1/16 in	19/64 in	4 7/8 in	OSG	**3CHX2**
5/16 in	0.3125	3 3/16 in	3/8 in	5 in	OSG	**2PNW9**
21/64 in	0.3281	3 5/16 in	3/8 in	5 1/8 in	OSG	**2PNX2**
11/32 in	0.3438	3 7/16 in	3/8 in	5 1/4 in	OSG	**2PNX5**
23/64 in	0.3594	3 1/2 in	3/8 in	5 5/16 in	OSG	**3CHX3**
3/8 in	0.3750	3 5/8 in	3/8 in	5 7/16 in	OSG	**2PNX7**
25/64 in	0.3906	3 3/4 in	1/2 in	5 27/32 in	OSG	**2PNX8**
13/32 in	0.4063	3 7/8 in	1/2 in	5 31/32 in	OSG	**2PNX9**
27/64 in	0.4219	3 15/16 in	1/2 in	6 1/32 in	OSG	**2PNY1**
7/16 in	0.4375	4 1/16 in	1/2 in	6 5/32 in	OSG	**2PNY2**
29/64 in	0.4531	4 3/16 in	1/2 in	6 9/32 in	OSG	**2PNY3**
15/32 in	0.4688	4 5/16 in	1/2 in	6 13/32 in	OSG	**2PNY4**
31/64 in	0.4844	4 3/8 in	1/2 in	6 15/32 in	OSG	**2PNY5**
1/2 in	0.5000	4 1/2 in	1/2 in	6 19/32 in	OSG	**2PNY6**
3/4 in	0.7500	5 7/8 in	7/8 in	8 17/32 in	OSG	**2PNZ5**
#21	0.1590	2 1/8 in	3/16 in	3 9/16 in	OSG	**2PNV3**
#30	0.1285	1 5/8 in	3/16 in	3 1/16 in	OSG	**2PNU8**
#40	0.0980	1 3/8 in	1/8 in	2 5/8 in	OSG	**2PNU5**
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Chicago-Latrobe	**2TJL2**
5/64 in	0.0781	1 in	5/64 in	2 in	Chicago-Latrobe	**2TJL3**
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**2TJL6**
9/64 in	0.1406	1 3/4 in	9/64 in	2 7/8 in	Chicago-Latrobe	**2VRX1**
5/32 in	0.1563	2 in	9/64 in	3 1/8 in	Chicago-Latrobe	**2VRX2**
11/64 in	0.1719	2 1/8 in	11/64 in	3 1/4 in	Chicago-Latrobe	**2VRX3**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**53CT30**
13/64 in	0.2031	2 7/16 in	13/64 in	3 5/8 in	Chicago-Latrobe	**53KC41**
7/32 in	0.2188	2 1/2 in	13/64 in	3 3/4 in	Chicago-Latrobe	**53CT31**
15/64 in	0.2344	2 5/8 in	15/64 in	3 7/8 in	Chicago-Latrobe	**2VRX7**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	**53CT32**
17/64 in	0.2656	2 7/8 in	17/64 in	4 1/8 in	Chicago-Latrobe	**2VRX9**
9/32 in	0.2813	2 15/16 in	17/64 in	4 1/4 in	Chicago-Latrobe	**53CT33**
19/64 in	0.2969	3 1/16 in	19/64 in	4 3/8 in	Chicago-Latrobe	**2VRY2**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**53CT34**
21/64 in	0.3281	3 5/16 in	21/64 in	4 5/8 in	Chicago-Latrobe	**53KC45**
11/32 in	0.3438	3 7/16 in	11/32 in	4 3/4 in	Chicago-Latrobe	**53CT35**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**434K44**
25/64 in	0.3906	3 3/4 in	25/64 in	5 1/8 in	Chicago-Latrobe	**53KC47**
13/32 in	0.4063	3 7/8 in	25/64 in	5 1/4 in	Chicago-Latrobe	**53CT36**
27/64 in	0.4219	3 15/16 in	27/64 in	5 3/8 in	Chicago-Latrobe	**53KC48**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	Chicago-Latrobe	**53CT37**
29/64 in	0.4531	4 3/16 in	29/64 in	5 5/8 in	Chicago-Latrobe	**2VRZ3**
15/32 in	0.4688	4 5/16 in	15/32 in	5 3/4 in	Chicago-Latrobe	**53CT38**
31/64 in	0.4844	4 3/8 in	31/64 in	5 7/8 in	Chicago-Latrobe	**53CT39**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	Chicago-Latrobe	**53CT40**
#7	0.2010	2 7/16 in	3/16 in	3 5/8 in	Chicago-Latrobe	**6ZJR8**
#21	0.1590	2 1/8 in	5/32 in	3 1/4 in	Chicago-Latrobe	**6ZJU2**
#30	0.1285	1 5/8 in	1/8 in	2 3/4 in	Chicago-Latrobe	**6ZJV1**
#40	0.0980	1 3/8 in	3/32 in	2 3/8 in	Chicago-Latrobe	**6ZJW1**
2.50 mm	0.0984	30.00 mm	2.5 mm	57.00 mm	Chicago-Latrobe	**434K50**
3.00 mm	0.1181	33.00 mm	3 mm	61.00 mm	Chicago-Latrobe	**434K52**
3.50 mm	0.1378	39.00 mm	3.5 mm	70.00 mm	Chicago-Latrobe	**434K55**
4.00 mm	0.1575	43.00 mm	4 mm	75.00 mm	Chicago-Latrobe	**434K59**
4.50 mm	0.1772	47.00 mm	4.5 mm	80.00 mm	Chicago-Latrobe	**434K63**
5.00 mm	0.1969	52.00 mm	5 mm	86.00 mm	Chicago-Latrobe	**434K68**
5.50 mm	0.2165	57.00 mm	5.5 mm	93.00 mm	Chicago-Latrobe	**434K71**
6.00 mm	0.2362	57.00 mm	6 mm	93.00 mm	Chicago-Latrobe	**434K74**
10.00 mm	0.3937	87.00 mm	10 mm	133.00 mm	Chicago-Latrobe	**434K86**

Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank
41AE32

Jobber-Length Carbide-Tipped Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	Chicago-Latrobe	**1W008**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	Chicago-Latrobe	**1W016**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	Chicago-Latrobe	**1W024**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	Chicago-Latrobe	**1W032**
118° Point Angle, Cam Relieved Point						
1/8 in	0.1250	1 5/8 in	1/8 in	2 3/4 in	—	**41AE32**
5/32 in	0.1563	2 in	5/32 in	3 1/8 in	—	**41AE50**
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	—	**41AE69**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	—	**41AF05**
5/16 in	0.3125	3 3/16 in	5/16 in	4 1/2 in	—	**41AF34**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	—	**41AF61**
7/16 in	0.4375	4 1/16 in	7/16 in	5 1/2 in	—	**41AF86**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	—	**41AG06**
9/16 in	0.5625	4 13/16 in	9/16 in	6 5/8 in	—	**41AG13**
5/8 in	0.6250	5 3/16 in	5/8 in	7 1/8 in	—	**41AG17**
21/32 in	0.6563	5 3/16 in	21/32 in	7 1/8 in	—	**41AG19**
13/16 in	0.8125	6 1/8 in	13/16 in	10 in	—	**41AJ71**
7/8 in	0.8750	6 1/8 in	7/8 in	10 in	—	**41AJ72**
6.50 mm	0.2559	2 15/16 in	6.50 mm	4 1/4 in	—	**41AF07**
135° Point Angle, 4 Facet Point						
3/16 in	0.1875	2 5/16 in	3/16 in	3 1/2 in	—	**41AG47**
1/4 in	0.2500	2 3/4 in	1/4 in	4 in	—	**41AG67**
3/8 in	0.3750	3 5/8 in	3/8 in	5 in	—	**41AG91**
1/2 in	0.5000	4 1/2 in	1/2 in	6 in	—	**41AH05**
#19	0.1660	2 5/16 in	4.22 mm	3 1/2 in	—	**41AG39**
N	0.3020	3 3/16 in	7.67 mm	4 1/2 in	—	**41AG79**

For more information on Drill Bits, see page 2239.

Bright Finish
33GM14

Jobber-Length Solid Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
AlTiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Split Point						
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	—	36XF12
1/4 in	0.2500	2 in	1/4 in	3 1/4 in	—	36XF36
17/64 in	0.2656	2 1/8 in	17/64 in	3 1/2 in	—	36XF39
5/16 in	0.3125	2 3/8 in	5/16 in	3 3/4 in	—	36XF48
3/8 in	0.3750	2 3/4 in	3/8 in	4 1/4 in	—	36XF60
13/32 in	0.4063	2 7/8 in	13/32 in	4 1/2 in	—	36XF66
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, 4 Facet Point						
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	Cleveland	33GM14
3/16 in	0.1875	1 5/8 in	3/16 in	2 3/4 in	Cleveland	33GM20
1/4 in	0.2500	2 in	1/4 in	3 1/4 in	Cleveland	33GM25
5/16 in	0.3125	2 3/8 in	5/16 in	4 in	Cleveland	33GM26
7/16 in	0.4375	2 7/8 in	7/16 in	4 1/2 in	Cleveland	33GM28
1/2 in	0.5000	3 in	1/2 in	4 3/4 in	Cleveland	33GM29
1.50 mm	0.0591	18.00 mm	1.50 mm	40.00 mm	Walter Titex	29GK64
7.20 mm	0.2835	69.00 mm	7.20 mm	109.00 mm	Walter Titex	29GL22
9.50 mm	0.3740	40.00 mm	9.50 mm	84.00 mm	Walter Titex	29GM45
118° Point Angle, Conventional Point						
5/32 in	0.1563	1 3/8 in		2 1/2 in	Westward	5TVY4
3/16 in	0.1875	1 5/8 in	3/16 in	2 1/4 in	Westward	5VPA1
13/64 in	0.2031	1 3/4 in	13/64 in	3 in	Westward	5VPA2
1/4 in	0.2500	2 3/4 in	1/4 in	3 1/4 in	Westward	5VPA5
17/64 in	0.2656	2 1/8 in	17/64 in	3 1/2 in	Westward	5VPA6
9/32 in	0.2813	2 15/16 in		3 1/2 in	Westward	5VPA7
23/64 in	0.3594	2 1/2 in	23/64 in	4 in	Westward	5VPC2
3/8 in	0.3750	2 3/4 in		4 1/4 in	Westward	5VPC3
1/2 in	0.5000	3 in	1/2 in	4 3/4 in	Westward	5VPD1
118° Point Angle, Split Point						
1/16 in	0.0625	3/4 in	1/16 in	1 1/2 in	—	36XE97
3/32 in	0.0938	1 in	3/32 in	2 in	—	36XF04
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	—	36XF10
5/32 in	0.1563	1 3/8 in	5/32 in	2 1/2 in	—	36XF16
11/64 in	0.1719	1 5/8 in	11/64 in	2 3/4 in	—	36XF19
13/64 in	0.2031	1 3/4 in	13/64 in	3 in	—	36XF25
7/32 in	0.2188	1 3/4 in	7/32 in	3 in	—	36XF28
1/4 in	0.2500	2 in	1/4 in	3 1/4 in	—	36XF34
17/64 in	0.2656	2 1/8 in	17/64 in	3 1/2 in	—	36XF37
9/32 in	0.2813	2 1/8 in	9/32 in	3 1/2 in	—	36XF40
19/64 in	0.2969	2 3/8 in	19/64 in	3 3/4 in	—	36XF43
5/16 in	0.3125	2 3/8 in	5/16 in	3 3/4 in	—	36XF46
11/32 in	0.3438	2 1/2 in	11/32 in	4 in	—	36XF52
3/8 in	0.3750	2 3/4 in	3/8 in	4 1/4 in	—	36XF58
25/64 in	0.3906	2 7/8 in	25/64 in	4 1/2 in	—	36XF61
13/32 in	0.4063	2 7/8 in	13/32 in	4 1/2 in	—	36XF64
1/2 in	0.5000	3 in	1/2 in	4 3/4 in	—	36XF82
#7	0.2010	1 3/4 in	3/16 in	3 in	—	36XJ85
#10	0.1935	1 5/8 in	3/16 in	2 3/4 in	—	36XJ76
#11	0.1910	1 5/8 in	3/16 in	2 3/4 in	—	36XJ73
#13	0.1850	1 5/8 in	11/64 in	2 3/4 in	—	36XJ67
#30	0.1285	1 1/4 in	1/8 in	2 1/4 in	—	36XJ16
#40	0.0980	1 in	3/32 in	2 in	—	36XH85
1.50 mm	0.0591	11/16 in	3/64 in	38.00 mm	—	45XY32
4.00 mm	0.1575	1 3/8 in	5/32 in	64.00 mm	—	45YD29
5.00 mm	0.1969	1 3/4 in	3/16 in	76.00 mm	—	45YE07
9.50 mm	0.3740	2 3/4 in	23/64 in	108.00 mm	—	45YF86
12.50mm	0.4921	2 15/16 in	31/64 in	121.00 mm	—	45XZ53
150° Point Angle, Conventional Point						
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	OSG	34YG13
5/16 in	0.3125	2 3/8 in	5/16 in	3 3/4 in	OSG	34YG26
21/64 in	0.3281	2 1/2 in	21/64 in	4.00 mm	OSG	34YG28
3/8 in	0.3750	2 3/4 in	3/8 in	4 1/4 in	OSG	34YG31
7/16 in	0.4375	2 7/8 in	7/16 in	4 1/2 in	OSG	34YG36
1/2 in	0.5000	3 in	1/2 in	4 3/4 in	OSG	34YG41
9/16 in	0.5625	3 1/2 in	9/16 in	5 3/4 in	OSG	34YG44
TiAlN Finish, Helical Flute, Non-Coolant Through, Straight Shank						
140° Point Angle, Conical Point						
3/32 in	0.0938	22.00 mm	4.00 mm	58.00 mm	Widia	432F37
9/64 in	0.1406	28.00 mm	6.00 mm	66.00 mm	Widia	432F63
3/8 in	0.3750	2 3/8 in	25/64 in	4 1/32 in	Widia	432G53
7/16 in	0.4375	2 3/4 in	15/32 in	4 5/8 in	Widia	432G73
1/2 in	0.5000	3 in	35/64 in	4 7/8 in	Widia	432H03
5.00 mm	0.1969	44.00 mm	6.00 mm	82.00 mm	Widia	432F88
TiN Finish, Spiral Flute, Coolant Through, Straight Shank						
118° Point Angle, Split Point						
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	—	36XF11
5/32 in	0.1563	1 3/8 in	5/32 in	2 1/2 in	—	36XF17
7/32 in	0.2188	1 3/4 in	7/32 in	3 in	—	36XF29
19/64 in	0.2969	2 3/8 in	19/64 in	3 3/4 in	—	36XF44
3/8 in	0.3750	2 3/4 in	3/8 in	4 1/4 in	—	36XF59
#7	0.2010	1 3/4 in	3/16 in	3 in	—	36XJ86
#30	0.1285	1 1/4 in	1/8 in	2 1/4 in	—	36XJ17
#40	0.0980	1 in	3/32 in	2 in	—	36XH86
TiNAl Finish, Spiral Flute, Coolant Through, Straight with Three Flats Shank						
140° Point Angle, Self-Centering Point						
1/2 in	0.5000	3 in	14.00 mm	4 7/8 in	Walter Titex	40TK02
9/16 in	0.5625	3 1/4 in	16.00 mm	5 7/32 in	Walter Titex	40TK25
6.80 mm	0.2677	53.00 mm	8.00 mm	91.00 mm	Walter Titex	40TH96
8.80 mm	0.3465	61.00 mm	10.00 mm	103.00 mm	Walter Titex	40TJ35
10.50 mm	0.4134	71.00 mm	12.00 mm	118.00 mm	Walter Titex	40TJ67
11.00 mm	0.4331	71.00 mm	12.00 mm	118.00 mm	Walter Titex	40TJ74
13.50mm	0.5315	77.00 mm	14.00 mm	124.00 mm	Walter Titex	40TK12
14.00mm	0.5512	77.00 mm	14.00 mm	124.00 mm	Walter Titex	40TK19
15.50mm	0.6102	83.00 mm	16.00 mm	133.00 mm	Walter Titex	40TK39

Reduced-Shank High-Speed Steel Drill Bits

Black Oxide Finish, Straight Shank
1P275

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black & Gold Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
9/16 in	0.5625	3 in	1/2 in	6 in	DeWalt	4KW17
5/8 in	0.6250	3 in	1/2 in	6 in	DeWalt	4KW18
11/16 in	0.6875	3 in	1/2 in	6 in	DeWalt	4KW19
3/4 in	0.7500	3 in	1/2 in	6 in	DeWalt	4KW20
Black & Gold Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank						
118° Point Angle, Split Point						
11/16 in	0.6875	3 1/8 in	1/2 in	6 in	Westward	6WUW7
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
1/2 in	0.5000	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P275
1/2 in	0.5000	3 1/8 in	1/2 in	6 in	Westward	4UM58
33/64 in	0.5156	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P277
33/64 in	0.5156	3 1/8 in	1/2 in	6 in	Cle-Line	2BT43
17/32 in	0.5312	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P279
17/32 in	0.5312	3 1/8 in	1/2 in	6 in	Cle-Line	4AK48
9/16 in	0.5625	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P283
9/16 in	0.5625	3 1/8 in	1/2 in	6 in	Cle-Line	5X989
37/64 in	0.5781	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P285
19/32 in	0.5938	3 1/8 in	1/2 in	6 in	Cle-Line	4AK49
5/8 in	0.6250	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P300
5/8 in	0.6250	3 1/8 in	1/2 in	6 in	Cle-Line	5X990
21/32 in	0.6562	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P304
21/32 in	0.6562	3 1/8 in	1/2 in	6 in	Cle-Line	4AK50
11/16 in	0.6875	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P308
11/16 in	0.6875	3 1/8 in	1/2 in	6 in	Cle-Line	5X991
23/32 in	0.7188	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P312
23/32 in	0.7188	3 1/8 in	1/2 in	6 in	Westward	4UM72
3/4 in	0.7500	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P316
3/4 in	0.7500	3 1/8 in	1/2 in	6 in	Cle-Line	5X992
49/64 in	0.7656	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P318
25/32 in	0.7812	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P320
25/32 in	0.7813	3 1/8 in	1/2 in	6 in	Westward	4UM76
13/16 in	0.8125	3 1/8 in	3/8 in	6 in	Cle-Line	5X993
13/16 in	0.8125	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P334
7/8 in	0.8750	3 1/8 in	3/8 in	6 in	Cle-Line	5X996
7/8 in	0.8750	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P342
15/16 in	0.9375	3 1/8 in	1/2 in	6 in	Cle-Line	1A051
15/16 in	0.9375	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P350
15/16 in	0.9375	3 1/8 in	1/2 in	6 in	Westward	4UM86
1 in	1.0000	3 1/8 in	3/8 in	6 in	Cle-Line	5X997
1 in	1.0000	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P361
1 1/16 in	1.0625	3 1/8 in	1/2 in	6 in	Westward	2UFX7
1 1/8 in	1.1250	3 1/8 in	1/2 in	6 in	Cle-Line	2BT66
1 1/8 in	1.1250	3 1/8 in	1/2 in	6 in	Westward	2UFX8
1 3/16 in	1.1875	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1P370
1 1/4 in	1.2500	3 1/8 in	1/2 in	6 in	Cle-Line	2BT74
1 1/4 in	1.2500	3 1/8 in	1/2 in	6 in	Westward	2UFY1
1 1/2 in	1.5000	3 1/8 in	1/2 in	6 in	Cle-Line	2BT79
1 1/2 in	1.5000	3 1/8 in	1/2 in	6 in	Westward	2UFY5
1 1/2 in	1.5000	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	4EG95
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank						
118° Point Angle, Conventional Point						
1 5/16 in	1.3125	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M979
1 1/2 in	1.5000	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1N636
118° Point Angle, Split Point						
33/64 in	0.5156	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M877
33/64 in	0.5156	3 1/8 in	1/2 in	6 in	Cle-Line	2TGK5
17/32 in	0.5312	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M879
17/32 in	0.5312	3 1/8 in	1/2 in	6 in	Cle-Line	2TGK6
35/64 in	0.5469	3 1/8 in	1/2 in	6 in	Cle-Line	2TGK7
9/16 in	0.5625	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M883
9/16 in	0.5625	3 1/8 in	1/2 in	6 in	Cle-Line	2TGK8
37/64 in	0.5781	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M885
19/32 in	0.5938	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL1
5/8 in	0.6250	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M891
5/8 in	0.6250	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL3
41/64 in	0.6406	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL4
21/32 in	0.6562	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M895
21/32 in	0.6562	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL5
11/16 in	0.6875	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M899
11/16 in	0.6875	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL7
23/32 in	0.7188	3 1/8 in	1/2 in	6 in	Cle-Line	2TGL9
3/4 in	0.7500	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M907
3/4 in	0.7500	3 1/8 in	1/2 in	6 in	Cle-Line	2TGN2
25/32 in	0.7812	3 1/8 in	1/2 in	6 in	Cle-Line	2TGN4
13/16 in	0.8125	3 1/8 in	3/8 in	6 in	Chicago-Latrobe	1M915
13/16 in	0.8125	3 1/8 in	1/2 in	6 in	Cle-Line	2TGN6
27/32 in	0.8438	3 1/8 in	1/2 in	6 in	Cle-Line	2TGN8
7/8 in	0.8750	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M923
15/16 in	0.9375	3 1/8 in	1/2 in	6 in	Cle-Line	2TGP5
1 in	1.0000	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M939
1 in	1.0000	3 1/8 in	1/2 in	6 in	Cle-Line	2TGP9
1 1/16 in	1.0625	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M947
1 1/16 in	1.0625	3 1/8 in	1/2 in	6 in	Cle-Line	2TGR1
1 1/8 in	1.1250	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M955
1 1/4 in	1.2500	3 1/8 in	1/2 in	6 in	Chicago-Latrobe	1M971
1 1/4 in	1.2500	3 1/8 in	1/2 in	6 in	Cle-Line	2TGR4
1 5/16 in	1.3125	3 1/8 in	1/2 in	6 in	Cle-Line	2TGR5
1 3/8 in	1.3750	3 1/8 in	1/2 in	6 in	Cle-Line	2TGR6
135° Point Angle, Split Point						
1/2 in	0.5000	3 3/8 in	1/2 in	5 in	Cle-Line	4GE11

For more information on Drill Bits, see page 2239.

Straw/Bronze Finish
4ZP34

Chicago-Latrobe® WESTWARD®

Reduced-Shank Cobalt Drill Bits

- 3 1/8 in Flute Length
- 1/2 in Shaft Length
- 6 in Overall Length

Drill Bit Size	Decimal Equivalent	Brand	Item No.
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank			
118° Point Angle, Split Point			
33/64 in	0.5156	Chicago-Latrobe	4ZP34
17/32 in	0.5312	Chicago-Latrobe	4ZP35
17/32 in	0.5313	Westward	5TVL9
35/64 in	0.5469	Chicago-Latrobe	4ZP36
9/16 in	0.5625	Chicago-Latrobe	4ZP37
9/16 in	0.5625	Westward	5TVN1
37/64 in	0.5781	Chicago-Latrobe	4ZP38
19/32 in	0.5938	Chicago-Latrobe	4ZP39
5/8 in	0.6250	Chicago-Latrobe	4ZP41
21/32 in	0.6562	Chicago-Latrobe	4ZP43
21/32 in	0.6563	Westward	5TVN7
11/16 in	0.6875	Chicago-Latrobe	4ZP45
45/64 in	0.7031	Chicago-Latrobe	4ZP46
23/32 in	0.7188	Chicago-Latrobe	4ZP47
23/32 in	0.7188	Westward	5TVP1
3/4 in	0.7500	Chicago-Latrobe	4ZP49
3/4 in	0.7500	Westward	5TVP2
49/64 in	0.7656	Chicago-Latrobe	4ZP50
25/32 in	0.7812	Chicago-Latrobe	4ZP51
13/16 in	0.8125	Chicago-Latrobe	4ZP53
53/64 in	0.8281	Chicago-Latrobe	4ZP54
7/8 in	0.8750	Chicago-Latrobe	4ZP57
29/32 in	0.9062	Chicago-Latrobe	4ZP59
59/64 in	0.9219	Chicago-Latrobe	4ZP60
15/16 in	0.9375	Chicago-Latrobe	4ZP61
1 in	1.0000	Chicago-Latrobe	4ZP65
1 in	1.0000	Westward	5TVR5
1 1/16 in	1.0625	Westward	5TVR6
1 1/8 in	1.1250	Chicago-Latrobe	4GE13
1 1/8 in	1.1250	Westward	5TVR7
1 1/4 in	1.2500	Chicago-Latrobe	4GE14
1 1/2 in	1.5000	Chicago-Latrobe	407A23
TiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank			
118° Point Angle, Split Point			
17/32 in	0.5312	Chicago-Latrobe	439A69
9/16 in	0.5625	Chicago-Latrobe	439A70
5/8 in	0.6250	Chicago-Latrobe	439A72
21/32 in	0.6562	Chicago-Latrobe	439A73
11/16 in	0.6875	Chicago-Latrobe	439A74
3/4 in	0.7500	Chicago-Latrobe	439A76
13/16 in	0.8125	Chicago-Latrobe	439A78
27/32 in	0.8438	Chicago-Latrobe	439A79
7/8 in	0.8750	Chicago-Latrobe	439A80
1 in	1.0000	Chicago-Latrobe	439A84

WESTWARD® CLE-LINE.

Black & Gold Finish, Straight with Three Flats Shank
4GB67

Mechanics-Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black & Gold Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/8 in	0.1250	1 7/16 in	1/8 in	2 1/2 in	Westward	2UFU9
Black & Gold Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank						
135° Point Angle, Split Point						
1/4 in	0.2500	2 in	1/4 in	3 1/2 in	Westward	2UFV8
19/64 in	0.2969	2 3/8 in	19/64 in	3 7/8 in	Westward	2UFW2
11/32 in	0.3438	2 5/8 in	11/32 in	4 1/8 in	Westward	2UFW5
3/8 in	0.3750	2 11/16 in	3/8 in	4 1/8 in	Westward	2UFW7
1/2 in	0.5000	3 3/8 in	1/2 in	5 in	Westward	2UFX6
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	1 7/8 in	Cle-Line	4GB67
5/64 in	0.0781	1 in	5/64 in	2 in	Cle-Line	4GB68
3/32 in	0.0938	1 1/4 in	3/32 in	2 1/4 in	Cle-Line	4GB69
7/64 in	0.1094	1 5/16 in	7/64 in	2 3/8 in	Cle-Line	4GB70
1/8 in	0.1250	1 7/16 in	1/8 in	2 1/2 in	Cle-Line	4GB71
9/64 in	0.1406	1 9/16 in	9/64 in	2 5/8 in	Cle-Line	4GB72
11/64 in	0.1719	1 13/16 in	11/64 in	2 7/8 in	Cle-Line	4GB74
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank						
135° Point Angle, Split Point						
3/16 in	0.1875	1 7/8 in	3/16 in	3 in	Cle-Line	4GB75
15/64 in	0.2344	2 1/16 in	15/64 in	3 3/8 in	Cle-Line	4GB78
1/4 in	0.2500	2 in	1/4 in	3 1/2 in	Cle-Line	4GB79
9/32 in	0.2813	2 1/4 in	17/64 in	3 3/4 in	Cle-Line	4GB81
19/64 in	0.2969	2 3/8 in	19/64 in	3 7/8 in	Cle-Line	4GB82
5/16 in	0.3125	2 1/2 in	5/16 in	4 in	Cle-Line	4GB83
25/64 in	0.3906	2 3/4 in	25/64 in	4 5/16 in	Cle-Line	4GB88
27/64 in	0.4219	2 7/8 in	27/64 in	4 7/16 in	Cle-Line	4GB90
29/64 in	0.4531	3 in	29/64 in	4 5/8 in	Cle-Line	4GB92
15/32 in	0.4688	3 1/8 in	15/32 in	4 3/4 in	Cle-Line	4GB93
1/2 in	0.5000	3 3/8 in	1/2 in	5 in	Cle-Line	4GB95

1TPE8

CLE-LINE.

Mechanics-Length Cobalt Drill Bits

- Left-hand drilling direction

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Item No.
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank					
135° Point Angle, Split Point					
5/64 in	0.0781	1 in	5/64 in	2 in	1TPE8
7/64 in	0.1094	1 in	7/64 in	2 3/8 in	1TPE9
1/8 in	0.1250	1 7/16 in	1/8 in	2 1/2 in	1TPF1
5/32 in	0.1563	1 11/16 in	9/64 in	2 3/4 in	1TPF2
3/16 in	0.1875	1 7/8 in	3/16 in	3 in	1TPF3
7/32 in	0.2188	2 in	13/64 in	3 1/4 in	1TPF4
1/4 in	0.2500	2 in	1/4 in	3 1/2 in	1TPF5
9/32 in	0.2813	2 1/4 in	17/64 in	3 3/4 in	1TPF6
19/64 in	0.2969	2 3/8 in	19/64 in	3 7/8 in	1TPF7
5/16 in	0.3125	2 1/2 in	5/16 in	4 in	1TPF8
11/32 in	0.3438	2 5/8 in	11/32 in	4 1/8 in	1TPF9
3/8 in	0.3750	2 11/16 in	3/8 in	4 1/4 in	1TPG1
13/32 in	0.4063	2 13/16 in	13/32 in	4 3/8 in	1TPG2
7/16 in	0.4375	2 15/16 in	7/16 in	4 1/2 in	1TPG3
15/32 in	0.4688	3 1/8 in	15/32 in	4 3/4 in	1TPG4
1/2 in	0.5000	3 3/8 in	1/2 in	5 in	1TPG5

Black Oxide Finish
439F27

CLEVELAND Chicago-Latrobe®

Extended-Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
1/8 in	0.1250	5 1/2 in	1/8 in	8 in	Cleveland	439F27
3/16 in	0.1875	9 in	3/16 in	12 in	Cleveland	439F70
1/4 in	0.2500	9 in	1/4 in	12 in	Cleveland	439F72
5/16 in	0.3125	9 in	5/16 in	12 in	Cleveland	439F74
3/8 in	0.3750	9 in	3/8 in	12 in	Cleveland	439F76
1/2 in	0.5000	9 in	1/2 in	12 in	Cleveland	439F80
9/16 in	0.5625	9 in	9/16 in	12 in	Cleveland	439F82
5/8 in	0.6250	9 in	5/8 in	12 in	Cleveland	439F84
118° Point Angle, Notched Point						
1/8 in	0.1250	9 in	1/8 in	12 in	Chicago-Latrobe	438Z54
3/16 in	0.1875	5 1/2 in	3/16 in	8 in	Chicago-Latrobe	439A15
7/32 in	0.2188	9 in	13/64 in	12 in	Chicago-Latrobe	439A20
1/4 in	0.2500	7 1/2 in	1/4 in	10 in	Chicago-Latrobe	439A24
5/16 in	0.3125	9 in	5/16 in	12 in	Chicago-Latrobe	439A30
3/8 in	0.3750	7 1/2 in	3/8 in	10 in	Chicago-Latrobe	438Z79
7/16 in	0.4375	5 1/2 in	7/16 in	8 in	Chicago-Latrobe	438Z84
1/2 in	0.5000	5 1/2 in	1/2 in	8 in	Chicago-Latrobe	438Z90
9/16 in	0.5625	9 in	9/16 in	12 in	Chicago-Latrobe	438Z98
5/8 in	0.6250	9 in	5/8 in	12 in	Chicago-Latrobe	439A03
3/4 in	0.7500	9 in	3/4 in	12 in	Chicago-Latrobe	439A11
NAS 907 Type B, Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/16 in	0.0625	7/8 in	1/16 in	6 in	Chicago-Latrobe	406W81
5/64 in	0.0781	1 in	5/64 in	6 in	Chicago-Latrobe	406W82
5/32 in	0.1563	2 in	9/64 in	12 in	Chicago-Latrobe	406X71
11/64 in	0.1719	2 1/8 in	11/64 in	6 in	Chicago-Latrobe	406W84
3/16 in	0.1875	2 5/16 in	3/16 in	12 in	Chicago-Latrobe	406X73
13/64 in	0.2031	2 7/16 in	13/64 in	6 in	Chicago-Latrobe	406W86
7/32 in	0.2188	2 1/2 in	13/64 in	12 in	Chicago-Latrobe	406X75
1/4 in	0.2500	2 3/4 in	1/4 in	12 in	Chicago-Latrobe	406X77
5/16 in	0.3125	3 3/16 in	5/16 in	6 in	Chicago-Latrobe	406W91
3/8 in	0.3750	3 5/8 in	3/8 in	6 in	Chicago-Latrobe	406W95
1/2 in	0.5000	4 1/2 in	1/2 in	12 in	Chicago-Latrobe	406X93
#1	0.2280	2 5/8 in	7/32 in	6 in	Chicago-Latrobe	406X05
#5	0.2055	2 1/2 in	13/64 in	12 in	Chicago-Latrobe	406X98
#10	0.1935	2 7/16 in	3/16 in	12 in	Chicago-Latrobe	406Y04
#21	0.1590	2 1/8 in	5/32 in	12 in	Chicago-Latrobe	406Y15
#26	0.1470	1 7/8 in	9/64 in	6 in	Chicago-Latrobe	406X30
#32	0.1160	1 5/8 in	7/64 in	12 in	Chicago-Latrobe	406Y26
#40	0.0980	1 3/8 in	3/32 in	12 in	Chicago-Latrobe	406Y34

For more information on Drill Bits, see page 2239.

WXL Finish
34YV02

Extended-Length Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
#10	0.1935	2 7/16 in	3/16 in	6 in	Cleveland	**407F62**
#20	0.1610	2 1/8 in	5/32 in	6 in	Cleveland	**407F66**
#21	0.1590	2 in	5/32 in	6 in	Cleveland	**439D58**
#29	0.1360	1 3/4 in	1/8 in	6 in	Cleveland	**439D25**
#30	0.1285	1 5/8 in	1/8 in	6 in	Cleveland	**407F69**
#40	0.0980	1 3/8 in	3/32 in	6 in	Cleveland	**407F70**
3/32 in	0.0938	1 1/4 in	3/32 in	6 in	Cleveland	**439D14**
7/64 in	0.1094	1 1/2 in	7/64 in	6 in	Cleveland	**439D20**
1/8 in	0.1250	1 5/8 in	1/8 in	6 in	Cleveland	**407F56**
1/8 in	0.1250	1 5/8 in	1/8 in	12 in	Cleveland	**439D52**
5/32 in	0.1563	2 in	9/64 in	6 in	Cleveland	**407F57**
11/64 in	0.1719	2 1/8 in	11/64 in	12 in	Cleveland	**439D61**
3/16 in	0.1875	2 5/16 in	3/16 in	6 in	Cleveland	**407F58**
13/64 in	0.2031	2 7/16 in	13/64 in	6 in	Cleveland	**439D42**
7/32 in	0.2188	2 1/2 in	13/64 in	6 in	Cleveland	**407F59**
15/64 in	0.2344	2 5/8 in	15/64 in	12 in	Cleveland	**439D69**
1/4 in	0.2500	2 3/4 in	1/4 in	6 in	Cleveland	**407F60**
1/4 in	0.2500	2 3/4 in	1/4 in	12 in	Cleveland	**439D70**
WXL Finish, Fast Spiral Flute, Non-Coolant Through, Straight Shank						
120° Point Angle, R Thinning Point						
7/64 in	0.1094	40.00 mm	7/64 in	90.00 mm	OSG	**34YV02**
3.00 mm	0.1181	70.00 mm	3.00 mm	120.00 mm	OSG	**34YX52**
120° Point Angle, X Thinning Point						
3/16 in	0.1875	110.00 mm	3/16 in	170.00 mm	OSG	**34YX35**
7/32 in	0.2188	128.00 mm	7/32 in	185.00 mm	OSG	**34YX37**
1/4 in	0.2500	146.00 mm	1/4 in	200.00 mm	OSG	**34YX39**
5/16 in	0.3125	184.00 mm	5/16 in	255.00 mm	OSG	**34YX77**
3/8 in	0.3750	172.00 mm	3/8 in	240.00 mm	OSG	**34YW81**
3/8 in	0.3750	220.00 mm	3/8 in	290.00 mm	OSG	**34YX81**
7/16 in	0.4375	155.00 mm	7/16 in	215.00 mm	OSG	**34YW01**
7/16 in	0.4375	255.00 mm	7/16 in	350.00 mm	OSG	**34YX85**
1/2 in	0.5000	160.00 mm	1/2 in	220.00 mm	OSG	**34YW04**
1/2 in	0.5000	230.00 mm	1/2 in	310.00 mm	OSG	**34YX22**
10.00 mm	0.3937	230.00 mm	10.00 mm	300.00 mm	OSG	**34YX99**

Straw/Bronze Finish
494N65

Hex-Shank Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Hex Shank						
135° Point Angle, Split Point						
1/16 in	0.0625	13/16 in	1/16"	1 29/32 in	DeWalt	**45CY83**
5/64 in	0.0781	1 in	5/64"	2 in	DeWalt	**45CY84**
3/32 in	0.0938	1 3/16 in	3/32"	2 3/16 in	DeWalt	**45CY85**
7/64 in	0.1094	1 1/2 in	7/64"	2 19/32 in	DeWalt	**45CY86**
1/8 in	0.125	1 1/16 in	1/8"	2 13/16 in	DeWalt	**45CY87**
9/64 in	0.1406	1 5/16 in	9/64"	2 29/32 in	DeWalt	**45CY88**
5/32 in	0.1563	1 9/16 in	5/32"	3 3/32 in	DeWalt	**45CY89**
11/64 in	0.1719	1 9/16 in	11/64"	3 5/16 in	DeWalt	**45CY90**
13/64 in	0.2031	1 13/16 in	13/64"	3 19/32 in	DeWalt	**45CY92**
7/32 in	0.2188	1 7/8 in	7/32"	3 13/16 in	DeWalt	**45CY93**
15/64 in	0.2344	2 in	15/64"	3 29/32 in	DeWalt	**45CY94**
1/4 in	0.25	2 3/16 in	1/4"	4 in	DeWalt	**45CY95**
5/16 in	0.3125	2 9/16 in	5/16"	4 19/32 in	DeWalt	**45CY96**
3/8 in	0.375	3 5/8 in	3/8"	5 in	DeWalt	**45CY97**
7/16 in	0.4375	4 in	7/16"	5 3/4 in	DeWalt	**45CY98**
1/2 in	0.5	3 7/8 in	1/2"	6 3/32 in	DeWalt	**45CY99**
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Hex Shank						
118° Point Angle, Split Point						
3/16 in	0.1875	2 in	3/16"	3 1/2 in	Cle-Line	**494N65**
13/64 in	0.2031	2 1/16 in	13/64"	3 5/8 in	Cle-Line	**494N66**
7/32 in	0.2188	2 3/16 in	7/32"	3 3/4 in	Cle-Line	**494N67**
1/4 in	0.25	2 7/16 in	1/4"	4 in	Cle-Line	**494N69**
17/64 in	0.2656	2 9/16 in	17/64"	4 1/8 in	Cle-Line	**494N70**
5/16 in	0.3125	2 15/16 in	5/16"	4 1/2 in	Cle-Line	**494N73**
11/32 in	0.3438	3 3/16 in	11/32"	4 3/4 in	Cle-Line	**494N75**
3/8 in	0.375	3 7/16 in	3/8"	5 in	Cle-Line	**494N77**
25/64 in	0.3906	3 9/16 in	25/64"	5 1/8 in	Cle-Line	**494N78**
13/32 in	0.4063	3 11/16 in	13/32"	5 1/4 in	Cle-Line	**494N79**
27/64 in	0.4219	3 3/4 in	27/64"	5 3/8 in	Cle-Line	**494N80**
7/16 in	0.4375	3 13/16 in	7/16"	5 1/2 in	Cle-Line	**494N81**
31/64 in	0.4844	4 3/16 in	31/64"	5 7/8 in	Cle-Line	**494N84**
1/2 in	0.5	4 5/16 in	1/2"	6 in	Cle-Line	**494N85**

Self-Centering Point
40TK55

Extended-Length Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Item No.
TiAIN+AlCrN Finish, Spiral Flute, Coolant Through, Straight Shank					
140° Point Angle, Self-Centering Point					
7/32"	0.2188	4 23/32 in	6.00 mm	6 19/64 in	**40TK54**
1/4"	0.2500	5 5/16 in	8.00 mm	6 7/8 in	**40TK57**
1/4"	0.2500	6 3/8 in	8.00 mm	7 55/64 in	**40TK97**
9/32"	0.2813	5 31/32 in	8.00 mm	7 35/64 in	**40TK61**
1/2"	0.5000	12 1/8 in	14.00 mm	14 3/64 in	**40TL18**
5.80-mm	0.2283	120.00 mm	6.00 mm	160.00 mm	**40TK55**
6.00-mm	0.2362	120.00 mm	6.00 mm	160.00 mm	**40TK56**
6.00-mm	0.2362	144.00 mm	6.00 mm	182.00 mm	**40TK95**
6.50-mm	0.2559	135.00 mm	8.00 mm	175.00 mm	**40TK58**
6.80-mm	0.2677	135.00 mm	8.00 mm	175.00 mm	**40TK59**
7.00-mm	0.2756	135.00 mm	8.00 mm	175.00 mm	**40TK60**
7.40-mm	0.2913	152.00 mm	8.00 mm	192.00 mm	**40TK62**
7.50-mm	0.2953	152.00 mm	8.00 mm	192.00 mm	**40TK63**
140° Point Angle, Split Point					
1/8"	0.1250	4 1/64 in	4.00 mm	5 13/16 in	**53AX13**
3/16"	0.1875	3 17/64 in	6.00 mm	4 3/4 in	**53AW31**
1/4"	0.2500	7 5/8 in	8.00 mm	9 13/64 in	**53AX20**
11/32"	0.3438	5 27/64 in	10.00 mm	7 5/64 in	**53AR44**
9/16"	0.5625	8 3/16 in	16.00 mm	10 7/32 in	**53AT60**
5.30-mm	0.2087	83.00 mm	6.00 mm	121.00 mm	**53AW37**

Titanium Finish
53DM52

Hex-Shank High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Impact Rated	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Hex Shank							
135° Point Angle, Split Point							
1/16 in	0.0625	7/8 in	1/16"	1 7/8 in	No	DeWalt	**5TG10**
1/8 in	0.125	1 9/16 in	1/8"	2 3/4 in	No	DeWalt	**5TG11**
3/16 in	0.1875	2 19/64 in	3/16"	3 1/2 in	—	DeWalt	**5TG12**
1/4 in	0.25	2 3/4 in	1/4"	4 in	No	DeWalt	**5TG13**
5/16 in	0.3125	3 3/16 in	5/16"	4 1/2 in	No	DeWalt	**5TG14**
7/16 in	0.4375	4 3/64 in	7/16"	5 37/64 in	No	DeWalt	**5TG16**
Finish, Spiral Flute, Non-Coolant Through, Hex Shank							
135° Point Angle, Split Point							
3/8 in	0.375	2 7/8 in	1/4"	4 5/8 in	Yes	Milwaukee	**45KM88**
TiN Finish, Spiral Flute, Non-Coolant Through, Hex Shank							
135° Point Angle, Split Point							
1/8 in	0.125	1 1/2 in	1/4"	2 3/4 in	Yes	Bosch	**48XY27**
9/64 in	0.1406	1 7/8 in	1/4"	2 7/8 in	Yes	Bosch	**48XY28**
5/32 in	0.1563	2 1/8 in	1/4"	3 1/8 in	Yes	Bosch	**48XY29**
3/16 in	0.1875	2 in	1/4"	3 1/2 in	Yes	Bosch	**48XY31**
7/32 in	0.2188	2 3/4 in	1/4"	3 3/4 in	Yes	Bosch	**48XY33**
1/4 in	0.25	2 1/2 in	1/4"	4 in	Yes	Bosch	**48XY34**
3/8 in	0.375	3 1/2 in	1/4"	5 in	Yes	Bosch	**48XY36**
Titanium Finish, Spiral Flute, Non-Coolant Through, Hex Shank							
135° Point Angle, Split Point							
1/16 in	0.0625	5/8 in	1/4"	2 1/4 in	Yes	Milwaukee	**45KM68**
5/64 in	0.0781	5/8 in	1/4"	2 11/32 in	Yes	Milwaukee	**45KM69**
3/32 in	0.0938	11/16 in	1/4"	2 3/8 in	Yes	Milwaukee	**45KM70**
7/64 in	0.1094	7/8 in	1/4"	2 1/2 in	Yes	Milwaukee	**45KM71**
1/8 in	0.125	7/8 in	1/4"	2 19/32 in	Yes	Milwaukee	**45KM72**
1/8 in	0.125	1 3/4 in	1/4"	2 3/4 in	Yes	Bosch	**53DM52**
9/64 in	0.1406	15/16 in	1/4"	2 5/8 in	Yes	Milwaukee	**45KM73**
5/32 in	0.1563	1 in	1/4"	2 3/4 in	Yes	Milwaukee	**45KM74**
11/64 in	0.1719	1 1/16 in	1/4"	2 29/32 in	Yes	Milwaukee	**45KM75**
3/16 in	0.1875	1 1/8 in	1/4"	3 in	Yes	Milwaukee	**45KM76**
3/16 in	0.1875	2 1/2 in	1/4"	3 1/2 in	Yes	Bosch	**53DM56**
13/64 in	0.2031	1 3/4 in	1/4"	3 1/2 in	Yes	Milwaukee	**45KM77**
7/32 in	0.2188	2 1/4 in	1/4"	4 1/16 in	Yes	Milwaukee	**45KM78**
15/64 in	0.2344	2 5/8 in	15/64"	3 7/8 in	No	Milwaukee	**45L155**
15/64 in	0.2344	2 5/16 in	1/4"	4 1/8 in	Yes	Milwaukee	**45KM79**
1/4 in	0.25	2 7/16 in	1/4"	4 1/8 in	Yes	Milwaukee	**45KM80**
1/4 in	0.25	3 in	1/4"	4 in	Yes	Bosch	**53DM59**
17/64 in	0.2656	2 1/2 in	1/4"	4 1/4 in	Yes	Milwaukee	**45KM81**
9/32 in	0.2813	2 1/2 in	1/4"	4 1/4 in	Yes	Milwaukee	**45KM82**
9/32 in	0.2813	2 5/16 in	9/32"	4 1/4 in	No	Milwaukee	**45L156**
19/64 in	0.2969	3 1/16 in	19/64"	4 3/8 in	No	Milwaukee	**45L157**
5/16 in	0.3125	2 9/16 in	1/4"	4 11/32 in	Yes	Milwaukee	**45KM84**
21/64 in	0.3281	2 11/16 in	1/4"	4 15/32 in	Yes	Milwaukee	**45KM85**
23/64 in	0.3594	3 1/2 in	23/64"	4 7/8 in	No	Milwaukee	**45L158**
25/64 in	0.3906	2 15/16 in	1/4"	4 23/32 in	Yes	Milwaukee	**45KM89**
25/64 in	0.3906	3 3/4 in	25/64"	5 1/8 in	No	Milwaukee	**45L159**
13/32 in	0.4063	3 in	1/4"	4 25/32 in	Yes	Milwaukee	**45KM90**
27/64 in	0.4219	3 15/16 in	27/64"	5 3/8 in	No	Milwaukee	**45L160**
7/16 in	0.4375	3 1/8 in	1/4"	4 29/32 in	Yes	Milwaukee	**45KM92**
29/64 in	0.4531	4 3/16 in	29/64"	5 5/8 in	No	Milwaukee	**45L161**
15/32 in	0.4688	4 5/16 in	15/32"	5 3/4 in	No	Milwaukee	**45L162**
31/64 in	0.4844	4 3/8 in	31/64"	5 7/8 in	No	Milwaukee	**45L163**
1/2 in	0.5	3 5/16 in	1/4"	5 3/32 in	Yes	Milwaukee	**45KM94**
1/2 in	0.5	5 in	1/4"	6 in	Yes	Bosch	**53DM63**

For more information on Drill Bits, see page 2239.

1N735

Taper-Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Taper Shank						
118° Point Angle, Conventional Point						
1/2"	0.5000	4 3/8 in	MT2	8 1/4 in	Chicago-Latrobe	**1N735**
17/32"	0.5312	4 5/8 in	MT2	8 1/2 in	Chicago-Latrobe	**1N765**
9/16"	0.5625	4 7/8 in	MT2	8 3/4 in	Chicago-Latrobe	**1N769**
39/64"	0.6094	4 7/8 in	MT2	8 3/4 in	Chicago-Latrobe	**4HAR2**
5/8"	0.6250	4 7/8 in	MT2	8 3/4 in	Chicago-Latrobe	**1N777**
21/32"	0.6562	5 1/8 in	MT2	9 in	Chicago-Latrobe	**1N781**
11/16"	0.6875	5 3/8 in	MT2	9 1/4 in	Chicago-Latrobe	**1N799**
3/4"	0.7500	5 7/8 in	18.00mm	9 3/4 in	Westward	**5TVF8**
3/4"	0.7500	5 7/8 in	MT2	9 3/4 in	Chicago-Latrobe	**1N807**
13/16"	0.8125	6 1/8 in	0.9484"	10 3/4 in	Westward	**5TVG0**
13/16"	0.8125	6 1/8 in	MT3	1 3/4 in	Chicago-Latrobe	**1N815**
7/8"	0.8750	6 1/8 in	MT3	1 3/4 in	Chicago-Latrobe	**1N823**
7/8"	0.8750	6 1/8 in	MT3	1 3/4 in	Cle-Line	**50AZ40**
15/16"	0.9375	6 1/8 in	MT3	1 3/4 in	Chicago-Latrobe	**1N831**
63/64"	0.9844	6 3/8 in	MT3	11 in	Chicago-Latrobe	**4HAT5**
1"	1.0000	6 3/8 in	MT3	11 in	Chicago-Latrobe	**1N839**
1 1/16"	1.0625	6 5/8 in	MT3	11 1/4 in	Chicago-Latrobe	**1N847**
1 7/64"	1.1094	7 1/8 in	MT4	12 3/4 in	Chicago-Latrobe	**4HAT9**
1 1/8"	1.1250	7 1/8 in	MT4	12 3/4 in	Chicago-Latrobe	**1N855**
1 5/32"	1.1562	2 1/8 in	1.2446"	12 7/8 in	Westward	**5TVH0**
1 3/16"	1.1875	7 3/8 in	MT4	13 in	Chicago-Latrobe	**1N863**
1 1/4"	1.2500	7 7/8 in	1.2446"	13 1/2 in	Westward	**5TVH2**
1 1/4"	1.2500	7 7/8 in	MT3	12 1/2 in	Cleveland	**439G64**
1 1/4"	1.2500	7 7/8 in	MT4	13 1/2 in	Chicago-Latrobe	**1N871**
1 5/16"	1.3125	8 5/8 in	1.2446"	14 1/4 in	Westward	**5TVH3**
1 11/32"	1.3438	8 3/4 in	MT4	14 3/8 in	Cleveland	**439G51**
1 3/8"	1.3750	8 7/8 in	MT4	14 1/2 in	Chicago-Latrobe	**1N887**
1 17/32"	1.5312	9 3/8 in	MT4	15 in	Cleveland	**439G65**
1 5/8"	1.6250	10 in	MT5	17 in	Chicago-Latrobe	**1N905**
1 11/16"	1.6875	1 1/8 in	MT5	17 1/8 in	Chicago-Latrobe	**4HAV2**
1 3/4"	1.7500	1 1/8 in	MT5	17 1/8 in	Chicago-Latrobe	**1N907**
2"	2.0000	10 3/8 in	1.7596"	17 3/8 in	Westward	**5TVH7**

TiN Finish
2MFA3

Screw-Machine Length Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	**1TNT6**
9/64 in	0.1406	15/16 in	9/64 in	1 15/16 in	Chicago-Latrobe	**1TNT7**
5/32 in	0.1562	10 in	5/32 in	2 1/16 in	Chicago-Latrobe	**1TNT8**
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	Chicago-Latrobe	**1TNU1**
13/64 in	0.2031	1 3/16 in	13/64 in	2 1/4 in	Chicago-Latrobe	**1TNU2**
7/32 in	0.2188	1 1/4 in	7/32 in	2 3/8 in	Chicago-Latrobe	**1TNU3**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	**1TNU5**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Westward	**5TVU1**
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	Chicago-Latrobe	**1TNU9**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	Chicago-Latrobe	**1TNV4**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	Cleveland	**439W38**
13/32 in	0.4062	1 15/16 in	13/32 in	3 5/16 in	Chicago-Latrobe	**1TNV6**
27/64 in	0.4219	2 in	27/64 in	3 3/8 in	Chicago-Latrobe	**1TNV7**
7/16 in	0.4375	2 1/16 in	7/16 in	3 7/16 in	Chicago-Latrobe	**1TNV8**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	Chicago-Latrobe	**1TNW3**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	Cleveland	**439W53**
#7	0.2010	1 3/16 in	3/16 in	2 1/4 in	Chicago-Latrobe	**4CNV2**
#10	0.1935	1 3/16 in	3/16 in	2 1/4 in	Cleveland	**439V93**
#30	0.1285	15/16 in	1/8 in	1 15/16 in	Chicago-Latrobe	**4CNX7**
F	0.2570	1 7/16 in	1/4 in	2 5/8 in	Chicago-Latrobe	**4CNP2**
O	0.3160	1 11/16 in	5/16 in	2 15/16 in	Chicago-Latrobe	**4CNR2**
Q	0.3320	1 11/16 in	21/64 in	3 in	Chicago-Latrobe	**4CNR4**
U	0.3680	1 13/16 in	23/64 in	3 1/8 in	Chicago-Latrobe	**4CNR8**
V	0.3770	1 7/8 in	3/8 in	3 1/4 in	Chicago-Latrobe	**4CNR9**
W	0.3860	1 7/8 in	3/8 in	3 1/4 in	Chicago-Latrobe	**4CNU1**
Y	0.4040	1 15/16 in	25/64 in	3 5/16 in	Chicago-Latrobe	**4CNU3**
TiAIN Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
135° Point Angle, Split Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Cleveland	**2VUJ4**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Cleveland	**2VUK3**
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	Cleveland	**2VUK7**
23/64 in	0.3594	1 3/4 in	23/64 in	3 1/16 in	Cleveland	**2VUL1**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	Cleveland	**2VUL2**
9/16 in	0.5625	2 1/2 in	9/16 in	4 in	Cleveland	**439X55**
5/8 in	0.6250	2 3/4 in	5/8 in	4 1/4 in	Cleveland	**439X59**
#21	0.1590	1 1/16 in	5/32 in	2 1/8 in	Cleveland	**2VUR4**
#26	0.1470	10 in	9/64 in	2 1/16 in	Cleveland	**2VUR9**
TiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
130° Point Angle, Notched Point						
1/8 in	0.1250	7/8 in	3/16 in	2 5/16 in	OSG	**2MFA3**
11/64 in	0.1719	1 1/16 in	3/16 in	2 1/2 in	OSG	**2MFC5**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	OSG	**2MFE2**
3/8 in	0.3750	1 13/16 in	3/8 in	3 5/8 in	OSG	**2MFF9**
1/2 in	0.5000	2 1/4 in	1/2 in	4 11/32 in	OSG	**2MFH2**
T	0.3580	1 3/4 in	3/8 in	3 1/16 in	OSG	**3CHP2**
135° Point Angle, Split Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	**439J95**
5/32 in	0.1562	10 in	5/32 in	2 1/16 in	Chicago-Latrobe	**439J97**
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	Chicago-Latrobe	**439J99**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	**439K04**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	Chicago-Latrobe	**439K12**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	Chicago-Latrobe	**439K20**

118° Point Angle
2PPK5

Screw-Machine Length Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, 4 Facet Point						
3/32 in	0.0938	3/4 in	3/32 in	1 3/4 in	OSG	**2PPK5**
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	OSG	**2PPL2**
5/32 in	0.1563	10 in	5/32 in	2 1/16 in	OSG	**2PPL6**
3/16 in	0.1875	1 5/8 in	3/16 in	2 3/4 in	OSG	**2PPL8**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	OSG	**2PPN5**
1/4 in	0.2500	10 in	1/4 in	2 1/2 in	Chicago-Latrobe	**6ZRT7**
9/32 in	0.2813	2 1/8 in	9/32 in	3 1/2 in	OSG	**3CLJ6**
5/16 in	0.3125	1 1/4 in	5/16 in	2 1/2 in	Chicago-Latrobe	**6ZCT9**
5/16 in	0.3125	2 3/8 in	5/16 in	3 3/4 in	OSG	**2PPN8**
11/32 in	0.3438	2 1/2 in	11/32 in	4 in	OSG	**2PPN9**
3/8 in	0.3750	1 1/4 in	3/8 in	2 3/4 in	Chicago-Latrobe	**6TDD3**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	OSG	**2PPP2**
25/64 in	0.3906	1 1/4 in	25/64 in	2 3/4 in	Chicago-Latrobe	**6TDD4**
25/64 in	0.3906	2 7/8 in	25/64 in	4 1/2 in	OSG	**3CLG4**
13/32 in	0.4062	1 1/4 in	13/32 in	2 3/4 in	Chicago-Latrobe	**6TDD5**
13/32 in	0.4063	2 7/8 in	13/32 in	4 1/2 in	OSG	**2PPP3**
27/64 in	0.4219	2 7/8 in	27/64 in	4 1/2 in	OSG	**2PPP4**
7/16 in	0.4375	1 1/4 in	7/16 in	2 3/4 in	Chicago-Latrobe	**6TDD7**
15/32 in	0.4688	3 in	15/32 in	4 3/4 in	OSG	**3CLF7**
1/2 in	0.5000	1 1/4 in	1/2 in	3 in	Chicago-Latrobe	**6TDE1**
1/2 in	0.5000	3 in	1/2 in	4 3/4 in	OSG	**2PPP6**
135° Point Angle, 4 Facet Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	—	**36XK19**
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	OSG	**2PPG4**
5/32 in	0.1562	10 in	5/32 in	2 1/16 in	—	**36XK23**
5/32 in	0.1563	10 in	5/32 in	2 1/16 in	OSG	**2PPG8**
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	—	**36XK27**
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	OSG	**2PPH1**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	—	**36XK35**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	OSG	**2PPH7**
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	—	**36XK43**
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	OSG	**2PPJ1**
11/32 in	0.3438	1 11/16 in	11/32 in	3 in	OSG	**2PPJ2**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	—	**36XK51**
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	OSG	**2PPJ4**
13/32 in	0.4063	1 15/16 in	13/32 in	3 5/16 in	OSG	**2PPJ5**
7/16 in	0.4375	2 1/16 in	7/16 in	3 7/16 in	OSG	**2PPJ7**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	—	**36XK67**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	OSG	**2PPJ8**

Parabolic Flute
441H96

Screw-Machine Length High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
3/32 in	0.0938	3/4 in	3/32 in	1 3/4 in	Chicago-Latrobe	**10P145**
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	**10P147**
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	Cleveland	**439L10**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	**1K746**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Cleveland	**439L30**
25/64 in	0.3906	1 7/8 in	25/64 in	3 1/4 in	Chicago-Latrobe	**10P164**
5/8 in	0.6250	2 3/4 in	5/8 in	4 1/4 in	Cleveland	**439L75**
#40	0.0980	13/16 in	3/32 in	1 13/16 in	Chicago-Latrobe	**10U242**
Bright Finish, Parabolic Flute, Non-Coolant Through, Straight Shank						
130° Point Angle, Conical Point						
#19	0.1660	55/64 in	4.22 mm	55.00 mm	Walter Titex	**441H96**
#25	0.1495	55/64 in	3.80 mm	55.00 mm	Walter Titex	**441J04**
#40	0.0980	35/64 in	2.49 mm	43.00 mm	Walter Titex	**441J21**
#41	0.0960	35/64 in	2.44 mm	43.00 mm	Walter Titex	**441J22**
3.00 mm	0.1181	5/8 in	3.00 mm	46.00 mm	Walter Titex	**441G66**
3.40 mm	0.1339	25/32 in	3.40 mm	52.00 mm	Walter Titex	**441G70**
3.50 mm	0.1378	25/32 in	3.50 mm	52.00 mm	Walter Titex	**441G71**
5.30 mm	0.2087	1 1/64 in	5.30 mm	62.00 mm	Walter Titex	**441H04**
5.50 mm	0.2165	1 3/32 in	5.50 mm	66.00 mm	Walter Titex	**441H06**
6.50 mm	0.2559	1 7/32 in	6.50 mm	70.00 mm	Walter Titex	**441H20**
8.60 mm	0.3386	1 9/16 in	8.60 mm	84.00 mm	Walter Titex	**441H44**
130° Point Angle, Conventional Point						
17/64 in	0.2656	1 21/64 in	6.75 mm	74.00 mm	Walter Titex	**441G41**
19/64 in	0.2969	1 29/64 in	7.54 mm	79.00 mm	Walter Titex	**441G47**
13/32 in	0.4062	1 11/16 in	10.32 mm	89.00 mm	Walter Titex	**441G27**
5/16 in	0.3125	1 29/64 in	7.94 mm	79.00 mm	Walter Titex	**441H11**
TiN Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
118° Point Angle, Conventional Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	**10U267**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	**10U275**
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	Chicago-Latrobe	**10U279**
120° Point Angle, 4 Facet Point						
8.00 mm	0.3150	37.00 mm	8.00 mm	81.00 mm	OSG	**2PNK5**
15.00 mm	0.5906	56.00 mm	16.00 mm	116.00 mm	OSG	**2PNT1**
135° Point Angle, Split Point						
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	**439H43**
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	**439H51**
7/16 in	0.4375	2 1/16 in	7/16 in	3 7/16 in	Chicago-Latrobe	**439H63**
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	Chicago-Latrobe	**439H67**
#43	0.0890	3/4 in	5/64 in	1 3/4 in	Chicago-Latrobe	**439J36**
#51	0.0670	11/16 in	1/16 in	1 11/16 in	Chicago-Latrobe	**439J44**
U	0.3680	1 13/16 in	23/64 in	3 1/8 in	Chicago-Latrobe	**439H87**

For more information on Drill Bits, see page 2239.

Threaded-Shank High-Speed Steel Drill Bits

- 1/4"-28 shank thread size

52NW11

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
NAS 965 Type B, Black Oxide Finish, Spiral Flute, Non-Coolant Through 135° Point Angle, Split Point				
1/8 in	0.1250	9/16 in	1 1/4 in	52NX51
5/32 in	0.1562	9/16 in	1 1/4 in	52NX57
3/16 in	0.1875	9/16 in	1 1/4 in	52NX63
13/64 in	0.2031	9/16 in	1 1/4 in	52NX66
7/32 in	0.2187	5/16 in	9/16 in	52NX70
1/4 in	0.2500	1 1/8 in	2 1/8 in	52NX71
1/4 in	0.2500	1/4 in	13/32 in	52NX74
1/4 in	0.2500	5/16 in	9/16 in	52NX73
1/4 in	0.2500	9/16 in	1 1/4 in	52NX72
9/32 in	0.2813	1 1/8 in	2 1/8 in	52NX75
5/16 in	0.3125	1 1/8 in	1 1/4 in	52NX78
5/16 in	0.3125	1 1/8 in	2 1/8 in	52NX77
5/16 in	0.3125	1 1/8 in	5/8 in	52NX79
#1	0.228	9/16 in	1 1/4 in	52NW11
#3	0.213	5/16 in	5/8 in	52NW19
#5	0.2055	9/16 in	1 1/4 in	52NW24
#5	0.2055	1 1/8 in	2 1/8 in	52NW23
#6	0.204	5/16 in	5/8 in	52NW28
#6	0.204	9/16 in	1 1/4 in	52NW27
#6	0.204	1 1/8 in	2 1/8 in	52NW26
#7	0.2010	9/16 in	1 1/4 in	52NW30
#7	0.2010	1 1/8 in	2 1/8 in	52NW29
#8	0.1990	5/16 in	5/8 in	52NW34
#8	0.1990	9/16 in	1 1/4 in	52NW33
#8	0.1990	1 1/8 in	2 1/8 in	52NW32
#10	0.1935	5/16 in	9/16 in	52NW40
#10	0.1935	9/16 in	1 1/4 in	52NW39
#10	0.1935	1 1/8 in	2 1/8 in	52NW38
#12	0.189	5/16 in	9/16 in	52NW48
#12	0.189	9/16 in	1 1/4 in	52NW47
#13	0.1850	5/16 in	9/16 in	52NW52
#13	0.1850	1 1/8 in	2 1/8 in	52NW50
#16	0.1770	5/16 in	9/16 in	52NW59
#16	0.1770	9/16 in	1 1/4 in	52NW58
#16	0.1770	1 1/8 in	2 1/8 in	52NW57
#19	0.1660	9/16 in	1 1/4 in	52NW67
#20	0.1610	1/4 in	13/32 in	52NW72
#20	0.1610	9/16 in	1 1/4 in	52NW70
#20	0.1610	1 1/8 in	2 1/8 in	52NW69
#21	0.1590	1/4 in	13/32 in	52NW76
#21	0.1590	5/16 in	9/16 in	52NW75
#21	0.1590	9/16 in	1 1/4 in	52NW74
#21	0.1590	1 1/8 in	2 1/8 in	52NW73
#27	0.1440	5/16 in	9/16 in	52NW95
#27	0.1440	9/16 in	1 1/4 in	52NW94
#27	0.1440	1 1/8 in	2 1/8 in	52NW93
#30	0.1285	5/16 in	9/16 in	52NX07
#30	0.1285	9/16 in	1 1/4 in	52NX06
#30	0.1285	1 1/8 in	2 1/8 in	52NX05
#36	0.1065	9/16 in	1 in	52NX27
#40	0.0980	5/16 in	1/2 in	52NX42
#40	0.0980	7/8 in	2 1/8 in	52NX40
#40	0.0980	9/16 in	1 in	52NX41
D	0.2460	9/16 in	1 1/4 in	52NX93

Threaded-Shank Cobalt Drill Bits

- 1/4"-28 shank thread size

16W807

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through 135° Point Angle, Split Point				
#10	0.1935	5/16 in	13/16 in	16W775
#10	0.1935	9/16 in	1 1/2 in	16W797
#10	0.1935	1 1/8 in	2 3/8 in	16W820
#11	0.1910	5/16 in	13/16 in	16W774
#11	0.1910	9/16 in	1 1/2 in	16W796
#11	0.1910	1 1/8 in	2 3/8 in	16W819
#12	0.1890	9/16 in	1 1/2 in	16W795
#13	0.1850	5/16 in	13/16 in	16W771
#13	0.1850	9/16 in	1 1/2 in	16W793
#13	0.1850	1 1/8 in	2 3/8 in	16W816
#16	0.1770	9/16 in	1 1/2 in	16W792
#16	0.1770	1 1/8 in	2 3/8 in	16W815
#20	0.1610	5/16 in	13/16 in	16W768
#20	0.1610	1 1/8 in	2 3/8 in	16W813
#21	0.1590	5/16 in	13/16 in	16W767
#21	0.1590	9/16 in	1 1/2 in	16W789
#21	0.1590	1 1/8 in	2 3/8 in	16W812
#30	0.1285	5/16 in	13/16 in	16W763
#30	0.1285	9/16 in	1 1/2 in	16W785
#30	0.1285	1 1/8 in	2 3/8 in	16W808
#40	0.0980	5/16 in	3/4 in	16W760
#40	0.0980	9/16 in	1 1/4 in	16W782
#40	0.0980	7/8 in	2 3/8 in	16W805
1/8 in	0.1250	9/16 in	1 1/4 in	16W784
1/8 in	0.1250	7/8 in	2 3/8 in	16W807
3/16 in	0.1875	9/16 in	1 1/2 in	16W794
3/16 in	0.1875	1 1/8 in	2 3/8 in	16W817
13/64 in	0.2031	5/16 in	7/8 in	16W776
7/32 in	0.2188	5/16 in	7/8 in	16W777
1/4 in	0.2500	9/16 in	1 1/2 in	16W801
1/4 in	0.2500	1 1/8 in	2 3/8 in	16W823
5/16 in	0.3125	9/16 in	1 1/2 in	16W802
3/8 in	0.3750	5/16 in	1 in	16W780
3/8 in	0.3750	9/16 in	1 1/2 in	16W803
3/8 in	0.3750	1 1/8 in	2 3/8 in	16W825

Coolant Through
45YC40

Straight-Flute Solid Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Straight Flute, Coolant Through, Straight Shank 140° Point Angle, Notched Point						
3/32 in	0.0938	3/4 in	3/32 in	1 3/4 in	—	45YC40
1/8 in	0.1250	7/8 in	1/8 in	1 7/8 in	—	45XY80
9/64 in	0.1406	15/16 in	9/64 in	1 15/16 in	—	45YG03
1/4 in	0.2500	1 3/8 in	1/4 in	2 1/2 in	—	45YG24
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	—	45YE28
27/64 in	0.4219	2 in	27/64 in	3 3/8 in	—	45YA89
7/16 in	0.4375	2 1/16 in	7/16 in	3 7/16 in	—	45YF38
1/2 in	0.5000	2 1/4 in	1/2 in	3 3/4 in	—	45XY53
11/16 in	0.6875	1 1/2 in	11/16 in	4 in	—	45XZ27
#21	0.1590	1 1/16 in	5/32 in	2 1/8 in	—	45YA47
#35	0.1100	7/8 in	7/64 in	1 7/8 in	—	45YC94
#42	0.0935	3/4 in	5/64 in	1 3/4 in	—	45YD55
5.00 mm	0.1969	30.00 mm	3/16 in	57.00 mm	—	45YE10
8.00 mm	0.3150	41.00 mm	5/16 in	71.00 mm	—	45YF60
G	0.2610	1 7/16 in	1/4 in	2 5/8 in	—	45YG33
N	0.3020	1 5/8 in	19/64 in	2 13/16 in	—	45YG62
Bright Finish, Straight Flute, Non-Coolant Through, Straight Shank 140° Point Angle, 4 Facet Point						
1/16 in	0.0625	5/8 in	1/16 in	1 5/8 in	Chicago-Latrobe	6WUF1
5/64 in	0.078125	11/16 in	5/64 in	1 11/16 in	Chicago-Latrobe	6WUF2
3/32 in	0.09375	3/4 in	3/32 in	1 3/4 in	Chicago-Latrobe	6WUF3
7/64 in	0.109375	13/16 in	7/64 in	1 13/16 in	Chicago-Latrobe	6WUF4
1/8 in	0.125	7/8 in	1/8 in	1 7/8 in	Chicago-Latrobe	6WUF5
1/8 in	0.125	7/8 in	1/8 in	1 7/8 in	OSG	34YG83
9/64 in	0.140625	15/16 in	9/64 in	1 15/16 in	Chicago-Latrobe	6WUF6
5/32 in	0.15625	1 in	5/32 in	2 1/16 in	Chicago-Latrobe	6WUF7
11/64 in	0.171875	1 1/16 in	11/64 in	2 1/8 in	Chicago-Latrobe	6WUF8
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	Chicago-Latrobe	6WUF9
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in	OSG	34YH09
13/64 in	0.203125	1 3/16 in	13/64 in	2 1/4 in	Chicago-Latrobe	6WUG0
7/32 in	0.21875	1 1/4 in	13/64 in	2 3/8 in	Chicago-Latrobe	6WUG1
15/64 in	0.234375	1 5/16 in	15/64 in	2 7/16 in	Chicago-Latrobe	6WUG2
1/4 in	0.25	1 3/8 in	1/4 in	2 1/2 in	Chicago-Latrobe	6WUG3
1/4 in	0.25	1 3/8 in	1/4 in	2 1/2 in	OSG	34YH32
17/64 in	0.265625	1 7/16 in	17/64 in	2 5/8 in	Chicago-Latrobe	6WUG4
19/64 in	0.296875	1 9/16 in	19/64 in	2 3/4 in	Chicago-Latrobe	6WUG6
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	Chicago-Latrobe	6WUG7
23/64 in	0.359375	1 3/4 in	23/64 in	3 1/16 in	Chicago-Latrobe	6WUH0
3/8 in	0.375	1 13/16 in	3/8 in	3 1/8 in	Chicago-Latrobe	6WUH1
25/64 in	0.390625	1 7/8 in	25/64 in	3 1/4 in	Chicago-Latrobe	6WUH2
7/16 in	0.4375	2 1/16 in	7/16 in	3 7/16 in	Chicago-Latrobe	6WUH5
1/2 in	0.5	2 1/4 in	1/2 in	3 3/4 in	Chicago-Latrobe	6WUH9
#7	0.201	1 3/16 in	#7	2 1/4 in	OSG	34YH16
#29	0.136	15/16 in	1/8 in	1 15/16 in	Chicago-Latrobe	6WUV0
#30	0.1285	15/16 in	1/8 in	1 15/16 in	Chicago-Latrobe	6ZRJ1
#40	0.098	13/16 in	3/32 in	1 13/16 in	Chicago-Latrobe	6ZRK1
#43	0.089	3/4 in	5/64 in	1 3/4 in	Chicago-Latrobe	6ZRK4
#55	0.052	1/2 in	#55	1 1/2 in	OSG	34YG50
1.50 mm	0.0591	13.00 mm	1.50 mm	38.00 mm	OSG	34YG52
G	0.261	1 7/16 in	G	2 5/8 in	OSG	34YH35

3BT95

Double-End High-Speed Steel Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank 135° Point Angle, Split Point						
#11	0.1910	11/16 in	3/16 in	2 5/16 in	Cle-Line	3BT98
#20	0.1610	1/2 in	5/32 in	2 5/32 in	Westward	2UFF8
#20	0.1610	5/8 in	5/32 in	2 1/16 in	Cle-Line	4BT03
#30	0.1285	1/2 in	1/8 in	1 7/8 in	Cle-Line	439H35
1/8 in	0.1250	3/8 in	1/8 in	1 29/32 in	Cle-Line	3BT95
9/64 in	0.1406	1/2 in	9/64 in	1 1/32 in	Cle-Line	3BT96
5/32 in	0.1562	1/2 in	5/32 in	2 5/32 in	Cle-Line	3BT97
3/16 in	0.1875	5/8 in	3/16 in	2 7/16 in	Cle-Line	3BT99
1/4 in	0.2500	3/4 in	1/4 in	2 3/4 in	Cle-Line	4BT02

For more information on Drill Bits, see page 2239.

TINAl Finish
442F05

Flat-Bottom Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
EgiAs Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
180° Point Angle, Flat Bottom						
3/16 in	0.1875	24.00 mm	4.76 mm	65.00 mm	OSG	**54LT49**
7/32 in	0.2188	27.00 mm	6.35 mm	65.00 mm	OSG	**54LT50**
1/4 in	0.25	30.00 mm	6.35 mm	70.00 mm	OSG	**54LT51**
5/16 in	0.3125	34.00 mm	7.93 mm	75.00 mm	OSG	**54LT87**
21/64 in	0.3281	38.00 mm	9.52 mm	80.00 mm	OSG	**54LT88**
23/64 in	0.3594	42.00 mm	9.52 mm	85.00 mm	OSG	**54LT89**
7/16 in	0.4375	50.00 mm	11.11 mm	95.00 mm	OSG	**54LU22**
2.00 mm	0.0787	10.00 mm	4.00 mm	50.00 mm	OSG	**54LR99**
2.30 mm	0.0906	11.00 mm	4.00 mm	50.00 mm	OSG	**54LT03**
2.90 mm	0.1142	14.00 mm	4.00 mm	50.00 mm	OSG	**54LT09**
3.30 mm	0.1299	15.00 mm	6.00 mm	55.00 mm	OSG	**54LT13**
3.80 mm	0.1496	19.00 mm	6.00 mm	60.00 mm	OSG	**54LT18**
4.10 mm	0.1614	19.00 mm	6.00 mm	60.00 mm	OSG	**54LT21**
5.00 mm	0.1969	24.00 mm	6.00 mm	65.00 mm	OSG	**54LT30**
5.80 mm	0.2283	27.00 mm	6.00 mm	65.00 mm	OSG	**54LT38**
6.90 mm	0.2717	30.00 mm	6.00 mm	70.00 mm	OSG	**54LT55**
7.00 mm	0.2756	30.00 mm	6.00 mm	70.00 mm	OSG	**54LT56**
8.00 mm	0.315	34.00 mm	8.00 mm	75.00 mm	OSG	**54LT62**
8.10 mm	0.3189	38.00 mm	8.00 mm	80.00 mm	OSG	**54LT63**
8.20 mm	0.3228	38.00 mm	8.00 mm	80.00 mm	OSG	**54LT64**
9.00 mm	0.3543	38.00 mm	8.00 mm	80.00 mm	OSG	**54LT69**
9.30 mm	0.3661	42.00 mm	8.00 mm	85.00 mm	OSG	**54LT71**
9.60 mm	0.378	42.00 mm	8.00 mm	85.00 mm	OSG	**54LT74**
10.50 mm	0.4134	46.00 mm	10.00 mm	90.00 mm	OSG	**54LT83**
TiNAl Finish, Spiral Flute, Coolant Through, Straight Shank						
180° Point Angle, Flat Bottom						
1/8 in	0.1250	12.00 mm	6.00 mm	62.00 mm	Walter Titex	**29FT60**
7/32 in	0.2187	21.00 mm	6.00 mm	66.00 mm	Walter Titex	**29FT70**
TiNAl Finish, Spiral Flute, Non-Coolant Through, Straight Shank						
180° Point Angle, Flat Bottom						
13/32 in	0.4063	1 9/16 in	12.00 mm	4 in	Walter Titex	**442F05**
7/16 in	0.4375	1 11/16 in	12.00 mm	4 in	Walter Titex	**442F15**
15/32 in	0.4688	1 11/16 in	12.00 mm	4 in	Walter Titex	**442F09**
1/2 in	0.5000	1 29/32 in	14.00 mm	4.21875	Walter Titex	**442D94**
9/16 in	0.5625	2 3/16 in	16.00 mm	4.5	Walter Titex	**442F16**
10.20 mm	0.4016	40.00 mm	12.00 mm	102.00 mm	Walter Titex	**442D95**
11.00 mm	0.4331	40.00 mm	12.00 mm	102.00 mm	Walter Titex	**442D97**
11.50 mm	0.4528	43.00 mm	12.00 mm	102.00 mm	Walter Titex	**442D98**
12.00 mm	0.4724	43.00 mm	12.00 mm	102.00 mm	Walter Titex	**442F01**
12.50 mm	0.4921	49.00 mm	14.00 mm	107.00 mm	Walter Titex	**442F02**
13.00 mm	0.5118	49.00 mm	14.00 mm	107.00 mm	Walter Titex	**442F03**
14.00 mm	0.5512	49.00 mm	14.00 mm	107.00 mm	Walter Titex	**442F06**
14.50 mm	0.5709	56.00 mm	16.00 mm	115.00 mm	Walter Titex	**442F07**
15.00 mm	0.5906	56.00 mm	16.00 mm	115.00 mm	Walter Titex	**442F08**
16.00 mm	0.6299	56.00 mm	16.00 mm	115.00 mm	Walter Titex	**442F10**
17.00 mm	0.6693	63.00 mm	18.00 mm	123.00 mm	Walter Titex	**442F11**
18.00 mm	0.7087	63.00 mm	18.00 mm	123.00 mm	Walter Titex	**442F12**
19.00 mm	0.7480	70.00 mm	20.00 mm	131.00 mm	Walter Titex	**442F13**
20.00 mm	0.7874	70.00 mm	20.00 mm	131.00 mm	Walter Titex	**442F14**
Z	0.4130	1 9/16 in	12.00 mm	4 in	Walter Titex	**442D96**

Conventional Point
10N917

Solid Spade Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Drill Diameter Tolerance	Shank Dia.	Overall Length	Brand	Item No.
Bright Finish, Straight Shank						
118° Point Angle, Conventional Point						
1/32 in	0.0312	+0.0000 in / -0.0005 in	0.0313 in	1 ½ in	Chicago-Latrobe	**10L353**
1/16 in	0.0625	+0.0000 in / -0.0005 in	1/16 in	1 ½ in	Chicago-Latrobe	**10L354**
3/32 in	0.0938	+0.0000 in / -0.0005 in	0.0938 in	1 ½ in	Chicago-Latrobe	**10L355**
1/8 in	0.1250	+0.0000 in / -0.0005 in	1/8 in	1 ½ in	Chicago-Latrobe	**10L356**
5/32 in	0.1562	+0.0000 in / -0.0007 in	5/32 in	2 in	Chicago-Latrobe	**10L357**
3/16 in	0.1875	+0.0000 in / -0.0007 in	3/16 in	2 in	Chicago-Latrobe	**10L358**
7/32 in	0.2188	+0.0000 in / -0.0007 in	0.2188 in	2 in	Chicago-Latrobe	**10L359**
1/4 in	0.2500	+0.0000 in / -0.0007 in	1/4 in	2 in	Chicago-Latrobe	**10L360**
9/32 in	0.2812	+0.0000 in / -0.0010 in	0.2813 in	2 ½ in	Chicago-Latrobe	**10L361**
5/16 in	0.3125	+0.0000 in / -0.0010 in	5/16 in	2 ½ in	Chicago-Latrobe	**10L362**
11/32 in	0.3438	+0.0000 in / -0.0010 in	0.3438 in	2 ½ in	Chicago-Latrobe	**10N917**
3/8 in	0.3750	+0.0000 in / -0.0010 in	3/8 in	2 ½ in	Chicago-Latrobe	**10N918**
118° Point Angle, Radial Point						
1/32 in	0.0313	+0.0000 in /-0.0005 in	0.0312 in	1 ¼ in	Micro 100	**16R805**
1/32 in	0.0313	+0.0000 in /-0.0005 in	1/32 in	1 ½ in	—	**45XY55**
3/64 in	0.0469	+0.0000 in /-0.0005 in	3/64 in	1 ½ in	—	**45YC46**
1/16 in	0.0625	+0.0000 in /-0.0005 in	1/16 in	1 ½ in	—	**45XY38**
1/16 in	0.0625	+0.0000 in /-0.0005 in	1/16 in	1 ½ in	Micro 100	**16R806**
3/32 in	0.0938	+0.0000 in /-0.0005 in	0.0938 in	1 ½ in	Micro 100	**16R807**
3/32 in	0.0938	+0.0000 in /-0.0005 in	3/32 in	1 ½ in	—	**45YC38**
7/64 in	0.1094	+0.0000 in /-0.0005 in	7/64 in	1 ½ in	—	**45YF46**
1/8 in	0.1250	+0.0000 in /-0.0005 in	1/8 in	1 ½ in	—	**45XY72**
1/8 in	0.1250	+0.0000 in /-0.0005 in	1/8 in	1 ½ in	Micro 100	**16R808**
9/64 in	0.1406	+0.0000 in /-0.0005 in	9/64 in	2 in	—	**45YG01**
5/32 in	0.1563	+0.0000 in /-0.0005 in	0.1562 in	2 in	Micro 100	**16R809**
5/32 in	0.1563	+0.0000 in /-0.0005 in	5/32 in	2 in	—	**45YE31**
11/64 in	0.1719	+0.0000 in /-0.0005 in	11/64 in	2 in	—	**45XZ34**
3/16 in	0.1875	+0.0000 in /-0.0005 in	3/16 in	2 in	—	**45YC27**
3/16 in	0.1875	+0.0000 in /-0.0005 in	3/16 in	2 in	Micro 100	**16R810**
7/32 in	0.2188	+0.0000 in /-0.0005 in	0.2188 in	2 in	Micro 100	**16R811**
7/32 in	0.2188	+0.0000 in /-0.0005 in	7/32 in	2 in	—	**45YF41**
1/4 in	0.2500	+0.0000 in /-0.0005 in	1/4 in	2 in	—	**45XY59**
1/4 in	0.2500	+0.0000 in /-0.0005 in	1/4 in	2 in	Micro 100	**16R812**
9/32 in	0.2813	+0.0000 in /-0.0005 in	9/32 in	2 ½ in	—	**45YF95**
5/16 in	0.3125	+0.0000 in /-0.0005 in	5/16 in	2 ½ in	—	**45YE20**
5/16 in	0.3125	+0.0000 in /-0.0005 in	5/16 in	2 ½ in	Micro 100	**16R814**
11/32 in	0.3438	+0.0000 in /-0.0005 in	11/32 in	2 ½ in	—	**45XZ29**
3/8 in	0.3750	+0.0000 in /-0.0005 in	3/8 in	2 ½ in	—	**45YC50**
3/8 in	0.3750	+0.0000 in /-0.0005 in	3/8 in	2 ½ in	Micro 100	**16R816**
13/32 in	0.4063	+0.0000 in /-0.0005 in	13/32 in	2 ¾ in	—	**45XZ65**
7/16 in	0.4375	+0.0000 in /-0.0005 in	7/16 in	2 ¾ in	—	**45YF36**
15/32 in	0.4688	+0.0000 in /-0.0005 in	15/32 in	3 in	—	**45XZ83**
1/2 in	0.5000	+0.0000 in /-0.0005 in	1/2 in	2 ½ in	Micro 100	**16R820**
1/2 in	0.5000	+0.0000 in /-0.0005 in	1/2 in	3 in	—	**45XY43**

Black Oxide Finish
50CM40

Spot-Weld Cobalt Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Item No.
Black Oxide Finish, Spiral Flute, Non-Coolant Through, Straight Shank					
135° Point Angle, Split Point					
6.00 mm	0.2362	28.00 mm	6.00 mm	66.00 mm	**50CM40**
8.00 mm	0.315	37.00 mm	8.00 mm	79.00 mm	**50CR60**
10.00 mm	0.3937	43.00 mm	10.00 mm	89.00 mm	**50CR59**
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight Shank					
135° Point Angle, Split Point					
6.00 mm	0.2362	28.00 mm	6.00 mm	66.00 mm	**50CM37**
8.00 mm	0.315	37.00 mm	8.00 mm	79.00 mm	**50CR56**
10.00 mm	0.3937	43.00 mm	10.00 mm	89.00 mm	**50CR55**
Straw/Bronze Finish, Spiral Flute, Non-Coolant Through, Straight with Three Flats Shank					
135° Point Angle, Split Point					
6.00 mm	0.2362	28.00 mm	6.00 mm	66.00 mm	**50CM38**
6.50 mm	0.2559	31.00 mm	6.50 mm	70.00 mm	**50CM39**
8.00 mm	0.315	37.00 mm	8.00 mm	79.00 mm	**50CR58**
10.00 mm	0.3937	43.00 mm	10.00 mm	89.00 mm	**50CR57**

For more information on Drill Bits, see page 2239.

KEO WALTER TITEX

High-Speed Steel Spotting Drills

TiN Finish, Spiral Flute, Straight Shank
33UP30

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	Shank Dia.	Brand	Item No.
Bright Finish, Spiral Flute, Straight Shank						
82° Point Angle						
1 in	0.2362	2 1/4 in	6 in	1 in	KEO	**33UR05**
90° Point Angle						
1/8 in	0.1250	3/8 in	1 1/4 in	1/8 in	KEO	**1DBU7**
3/8 in	0.3750	1 in	2 in	3/8 in	KEO	**1DBV2**
3/8 in	0.3750	1 1/8 in	3 1/8 in	3/8 in	KEO	**1MCA9**
7/16 in	0.4375	1 in	2 in	7/16 in	KEO	**33UP55**
1/2 in	0.5000	1 in	2 in	1/2 in	KEO	**33UL67**
1/2 in	0.5000	1 3/8 in	3 3/4 in	1/2 in	KEO	**1MCB3**
1/2 in	0.5000	1.3780 in	4 1/64 in	1/2 in	Walter Titex	**440N94**
1/2 in	0.5000	1 3/8 in	6 in	1/2 in	KEO	**1MCB4**
3/4 in	0.7500	1 1/8 in	2 1/4 in	3/4 in	KEO	**1DBV5**
3/4 in	0.7500	1 7/8 in	5 in	3/4 in	KEO	**1MCB7**
1 in	1.0000	2 1/4 in	6 in	1 in	KEO	**1MCB8**
5.00 mm	0.1969	15.00 mm	120.00 mm	5.00 mm	Walter Titex	**440N90**
E	0.2500	3/4 in	2 1/2 in	1/4 in	KEO	**1MCA6**
E	0.2500	3/4 in	6 in	1/4 in	KEO	**1MCA8**
118° Point Angle						
1/8 in	0.1250	3/8 in	1 1/4 in	1/8 in	KEO	**1DBV8**
3/16 in	0.1875	1/2 in	1 3/8 in	3/16 in	KEO	**1DBV9**
5/16 in	0.3125	5/8 in	1 1/2 in	5/16 in	KEO	**1DBW2**
3/8 in	0.3750	1 in	2 in	3/8 in	KEO	**33UP47**
1/2 in	0.5000	1 in	2 in	1/2 in	KEO	**33UP24**
5/8 in	0.2500	5/8 in	1 1/2 in	1/4 in	KEO	**1DBW1**
120° Point Angle						
6.00 mm	0.2362	20.00 mm	66.00 mm	6.00 mm	Walter Titex	**440N71**
16.00 mm	0.6299	46.00 mm	115.00 mm	16.00 mm	Walter Titex	**440N43**
E	0.2500	3/4 in	2 1/2 in	1/4 in	KEO	**1MCB9**
TiN Finish, Spiral Flute, Straight Shank						
90° Point Angle						
3/16 in	0.1875	1/2 in	1 3/8 in	3/16 in	KEO	**33UP30**
3/8 in	0.3750	1 in	2 in	3/8 in	KEO	**33UP46**
1/2 in	0.5000	1 3/8 in	3 3/4 in	1/2 in	KEO	**12Y264**
1/2 in	0.5000	1 3/8 in	6 in	1/2 in	KEO	**12Y265**
118° Point Angle						
5/16 in	0.3125	5/8 in	1 1/2 in	5/16 in	KEO	**33UP37**
3/8 in	0.3750	1 in	2 in	3/8 in	KEO	**33UP45**
1/2 in	0.5000	1 in	2 in	1/2 in	KEO	**33UP22**
9/16 in	0.5625	1 in	2 in	9/16 in	KEO	**33UP64**
120° Point Angle						
E	0.2500	3/4 in	4 in	1/4 in	KEO	**12Y286**

KYOCERA

Carbide Micro Drill Bits for Circuit Boards

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Item No.
Bright Finish, Spiral Flute, Non-Coolant Through, Straight Shank					
118° Point Angle, 4 Facet Point					
#81	0.0130	7/32 in	1/8 in	1 1/2 in	**414C98**
#83	0.0120	7/32 in	1/8 in	1 1/2 in	**414C90**
#83	0.0120	1/4 in	1/8 in	1 1/2 in	**414C91**
#85	0.0110	1/8 in	1/8 in	1 1/2 in	**414C78**
#86	0.0105	7/32 in	1/8 in	1 1/2 in	**414C75**
#87	0.0100	1/8 in	1/8 in	1 1/2 in	**414C70**
#87	0.0100	7/32 in	1/8 in	1 1/2 in	**414C71**
#89	0.0087	1/8 in	1/8 in	1 1/2 in	**414C58**
#90	0.0087	1/8 in	1/8 in	1 1/2 in	**414C55**
#91	0.0083	3/32 in	7/64 in	38.00 mm	**414H83**
#97	0.0059	1/16 in	7/64 in	38.00 mm	**414H77**
#97	0.0059	3/32 in	1/8 in	1 1/2 in	**414C27**
130° Point Angle, 4 Facet Point					
#36	0.1065	3/8 in	1/8 in	1 1/2 in	**414G22**
#37	0.1040	3/8 in	1/8 in	1 1/2 in	**414G16**
#41	0.0960	3/8 in	1/8 in	1 1/2 in	**414F99**
#43	0.0890	3/8 in	1/8 in	1 1/2 in	**414F87**
#45	0.0820	3/8 in	1/8 in	1 1/2 in	**414F75**
#47	0.0785	3/8 in	1/8 in	1 1/2 in	**414F67**
#51	0.0670	3/8 in	1/8 in	1 1/2 in	**414F47**
#54	0.0550	3/8 in	1/8 in	1 1/2 in	**414F25**
#55	0.0520	3/8 in	1/8 in	1 1/2 in	**414F21**
#57	0.0430	3/8 in	1/8 in	1 1/2 in	**414F03**
#58	0.0420	3/8 in	1/8 in	1 1/2 in	**414F01**
#60	0.0400	3/8 in	1/8 in	1 1/2 in	**414D94**
#65	0.0350	3/8 in	1/8 in	1 1/2 in	**414D78**
#67	0.0320	3/8 in	1/8 in	1 1/2 in	**414D72**
#68	0.0310	3/8 in	1/8 in	1 1/2 in	**414D66**
#69	0.0292	3/8 in	1/8 in	1 1/2 in	**414D62**
#70	0.0280	3/8 in	1/8 in	1 1/2 in	**414D60**
#71	0.0260	5/16 in	1/8 in	1 1/2 in	**414D56**
#72	0.0250	5/16 in	1/8 in	1 1/2 in	**414D52**
#73	0.0240	5/16 in	1/8 in	1 1/2 in	**414D50**
#74	0.0225	5/16 in	1/8 in	1 1/2 in	**414D46**
#75	0.0210	9/32 in	1/8 in	1 1/2 in	**414D43**
#76	0.0200	1/4 in	1/8 in	1 1/2 in	**414D39**
#76	0.0200	9/32 in	1/8 in	1 1/2 in	**414D40**
#77	0.0180	1/4 in	1/8 in	1 1/2 in	**414D31**
#77	0.0180	9/32 in	1/8 in	1 1/2 in	**414D32**
#78	0.0160	1/4 in	1/8 in	1 1/2 in	**414D23**
#78	0.0160	9/32 in	1/8 in	1 1/2 in	**414D24**
#79	0.0145	1/4 in	1/8 in	1 1/2 in	**414D12**
#80	0.0135	7/32 in	1/8 in	1 1/2 in	**414D03**
#80	0.0135	1/4 in	1/8 in	1 1/2 in	**414D04**

118° Point Angle
414C98

KYOCERA KEO MICRO 100 super carbide tools WALTER TITEX

AlTiN Finish, Spiral Flute, Straight Shank
45XY78

Carbide Spotting Drills

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	Shank Dia.	Brand	Item No.
AlTiN Finish, Helical Flute, Straight Shank						
90° Point Angle						
3.00 mm	0.1181	5.00 mm	38.00 mm	3.00 mm	Kyocera	**414V90**
AlTiN Finish, Spiral Flute, Straight Shank						
90° Point Angle						
1/8 in	0.1250	5/8 in	2 in	1/8 in	—	**45XY78**
3/8 in	0.2500	3/4 in	2 1/2 in	1/4 in	—	**45XY67**
3/8 in	0.3750	1 in	2 1/2 in	3/8 in	—	**45YC57**
1/2 in	0.5000	1 1/4 in	3 in	1/2 in	—	**45XY51**
120° Point Angle						
3/16 in	0.1875	3/4 in	2 in	3/16 in	—	**45YC29**
3/8 in	0.2500	3/4 in	2 1/2 in	1/4 in	—	**45XY62**
3/8 in	0.3750	1 in	2 1/2 in	3/8 in	—	**45YC53**
140° Point Angle						
1/4 in	0.2500	3/4 in	2 1/2 in	1/4 in	—	**45XY64**
3/8 in	0.3750	1 in	2 1/2 in	3/8 in	—	**45YC55**
1/2 in	0.5000	1 1/4 in	3 in	1/2 in	—	**45XY48**
Bright Finish, Helical Flute, Straight Shank						
130° Point Angle						
0.0200 in	0.0200	0.0500 in	1 1/2 in	1/8 in	Kyocera	**414V39**
Bright Finish, Spiral Flute, Straight Shank						
82° Point Angle						
3/8 in	0.3750	3/4 in	2 1/2 in	3/8 in	KEO	**33UR01**
1/2 in	0.5000	1 in	3 in	1/2 in	KEO	**33UP91**
E	0.2500	3/4 in	2 1/2 in	1/4 in	KEO	**33UP92**
90° Point Angle						
1/8 in	0.1250	3/8 in	1 1/2 in	1/8 in	KEO	**1MBY8**
3/16 in	0.1875	3/4 in	2 in	3/16 in	—	**45YC32**
1/4 in	0.2500	3/4 in	2 1/2 in	1/4 in	—	**45XY66**
5/16 in	0.3125	3/4 in	2 1/2 in	5/16 in	Micro 100	**16R629**
3/8 in	0.3750	3/4 in	2 1/2 in	3/8 in	KEO	**1MBZ3**
3/8 in	0.3750	1.0236 in	3 1/2 in	9.53 mm	Walter Titex	**49L622**
1/2 in	0.5000	1 in	3 in	1/2 in	KEO	**1MBZ4**
5/8 in	0.6250	1 in	3 1/2 in	5/8 in	KEO	**1MBZ5**
1 in	1.0000	1 1/4 in	2 1/2 in	1 in	Micro 100	**16R621**
6.00 mm	0.2362	20.00 mm	66.00 mm	6.00 mm	Walter Titex	**49L619**
10.00 mm	0.3937	31.00 mm	89.00 mm	10.00 mm	Walter Titex	**49L623**
E	0.2500	3/4 in	2 1/2 in	1/4 in	KEO	**1MBZ1**
100° Point Angle						
3/8 in	0.3750	1 in	2 1/2 in	3/8 in	Micro 100	**16R634**
1/2 in	0.5000	1 in	2 1/2 in	1/2 in	Micro 100	**16R642**
1/2 in	0.5000	1 1/4 in	3 in	1/2 in	—	**45XY44**
E	0.2500	3/4 in	2 1/2 in	1/4 in	Micro 100	**16R626**
120° Point Angle						
3/16 in	0.1875	9/16 in	2 in	3/16 in	KEO	**1MBZ8**
3/8 in	0.3750	3/4 in	2 1/2 in	3/8 in	KEO	**1MCA2**
3/8 in	0.3750	1 in	2 1/2 in	3/8 in	—	**45YC52**
140° Point Angle						
3/16 in	0.1875	3/4 in	2 in	3/16 in	—	**45YC30**
1/2 in	0.5000	1 1/4 in	3 in	1/2 in	—	**45XY47**
142° Point Angle						
3/8 in	0.3750	3/4 in	2 1/2 in	3/8 in	KEO	**12J398**
TiAlN Finish, Spiral Flute, Straight Shank						
140° Point Angle						
3/16 in	0.1875	3/4 in	2 in	3/16 in	—	**45YC31**
TiN Finish, Spiral Flute, Straight Shank						
120° Point Angle						
5/8 in	0.6250	1 in	3 1/2 in	5/8 in	KEO	**33UR03**
E	0.2500	3/4 in	2 1/2 in	1/4 in	KEO	**12Y301**

TiNAl Finish, Coolant Through, Straight Shank
29FV06

WALTER TITEX

Step Chamfer Carbide Drill Bits

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Item No.
TiNAl Finish, Coolant Through, Straight Shank					
150° Point Angle, 90° Chamfer Angle					
1/4 in	0.2500	1 5/16 in	10.00 mm	3 1/2 in	**29FV06**
3.00 mm	0.1181	20.00 mm	6.00 mm	66.00 mm	**29FT90**
4.00 mm	0.1575	22.00 mm	6.00 mm	66.00 mm	**29FT95**
5.00 mm	0.1969	28.00 mm	8.00 mm	79.00 mm	**29FT99**
6.00 mm	0.2362	28.00 mm	8.00 mm	79.00 mm	**29FV04**
7.00 mm	0.2756	34.00 mm	10.00 mm	89.00 mm	**29FV09**
8.00 mm	0.3150	40.00 mm	12.00 mm	102.00 mm	**29FV14**
8.50 mm	0.3346	44.00 mm	12.00 mm	102.00 mm	**29FV16**
9.00 mm	0.3543	44.00 mm	12.00 mm	102.00 mm	**29FV18**
10.00 mm	0.3937	44.00 mm	12.00 mm	102.00 mm	**29FV21**
12.00 mm	0.4724	52.00 mm	14.00 mm	107.00 mm	**29FV29**

For more information on Drill Bits, see page 2239.

Drill Bit Blanks

- Ground finish
- Carbide material
- Dia. tolerance: +0.0000/-0.0005"
- Additional material and sizes are available on Grainger.com®

These solid carbide drill bit blanks come in standard sizes expressed in fractional inches, which are the most common trade size used for drill bits. They are harder than cobalt steel and high-speed steel drill bit blanks. They provide good wear resistance when drilling into the toughest materials. Machined to create custom drill bits with precise dimensions to suit specific applications. Typically used to check size of a drilled hole or to create gauges, drifts, punches, rollers, locating pins, spindles, or knockout pins.

Dia.	Decimal Equivalent	L	Item No.	Dia.	Decimal Equivalent	L	Item No.
1/32"	0.0312	1½"	**402Y50**	5/16"	0.3125	12"	**403C63**
1/32"	0.0312	12"	**403C19**	21/64"	0.3281	12"	**403C67**
3/64"	0.0469	1½"	**402Y52**	11/32"	0.3438	12"	**403C69**
3/64"	0.0469	12"	**403C21**	23/64"	0.3594	12"	**403C73**
1/16"	0.0625	1½"	**402Y54**	3/8"	0.3750	1½"	**403A47**
1/16"	0.0625	12"	**403C23**	3/8"	0.3750	6"	**402Z48**
5/64"	0.0781	1½"	**402Y56**	25/64"	0.3906	12"	**403C77**
5/64"	0.0781	12"	**403C25**	27/64"	0.4219	12"	**403C83**
3/32"	0.0938	1½"	**402Y58**	7/16"	0.4375	2½"	**402Z49**
3/32"	0.0938	3"	**402Y61**	7/16"	0.4375	6"	**402Z59**
7/64"	0.1094	12"	**403C29**	29/64"	0.4531	12"	**403C88**
1/8"	0.1250	¾"	**403A30**	15/32"	0.4688	12"	**403C90**
1/8"	0.1250	1"	**402Y69**	31/64"	0.4844	12"	**403C94**
9/64"	0.1406	12"	**403C35**	1/2"	0.5000	1½"	**403A49**
5/32"	0.1562	1½"	**402Y89**	1/2"	0.5000	12"	**403C96**
5/32"	0.1562	12"	**403C37**	17/32"	0.5312	12"	**403D01**
11/64"	0.1719	12"	**403C41**	9/16"	0.5625	3½"	**402Z78**
3/16"	0.1875	1"	**403A37**	9/16"	0.5625	12"	**403D03**
3/16"	0.1875	12"	**403C43**	5/8"	0.6250	3"	**402Z80**
13/64"	0.2031	12"	**403C47**	5/8"	0.6250	12"	**403D05**
15/64"	0.2344	12"	**403C51**	3/4"	0.7500	7"	**403A06**
1/4"	0.2500	1"	**403A42**	3/4"	0.7500	12"	**403D13**
1/4"	0.2500	12"	**403C55**	13/16"	0.8125	12"	**403D15**
17/64"	0.2656	12"	**403C57**	7/8"	0.8750	4"	**403A13**
9/32"	0.2812	12"	**403C59**	7/8"	0.8750	12"	**403D17**
19/64"	0.2969	12"	**403C61**	1"	1.0000	4"	**403A15**
5/16"	0.3125	1¼"	**403A46**	1"	1.0000	12"	**403D22**

Series 777 Tool Blanks

- Unfinished
- Carbide material
- Parallelism and flatness tolerances: ±0.020"
- Minimum grind stock: Thickness: +0.008"; Width: +0.012"; Length: +0.008"
- Additional material and sizes are available on Grainger.com®

Commonly used as wear parts, tools, grinder rests, and appliance parts, these solid C-2 grade medium-grain carbide strips contain 6% to 8% cobalt.

Thickness	W	L	Item No.	Thickness	W	L	Item No.
1/32 in	1/16 in	1 in	**403F67**	1/8 in	1 ¼ in	6 in	**403H16**
1/32 in	1/16 in	1 ½ in	**403F68**	5/32 in	3/8 in	6 in	**403H12**
3/64 in	3/32 in	13/16 in	**403F70**	5/32 in	1 ½ in	6 in	**403H03**
3/64 in	3/32 in	1 in	**403F69**	3/16 in	5/16 in	12 in	**403G73**
1/16 in	1 in	6 in	**403G22**	3/16 in	3/4 in	2 in	**403F87**
5/64 in	1/8 in	1 ⅛ in	**403F72**	3/16 in	1 in	6 in	**403G70**
3/32 in	3/8 in	6 in	**403G29**	1/4 in	1/4 in	12 in	**403G99**
3/32 in	5/8 in	8 in	**403G38**	1/4 in	1/2 in	2 in	**403G81**
1/8 in	1/4 in	1 in	**403F89**	1/4 in	5/8 in	6 in	**403G83**
1/8 in	1/4 in	2 ¼ in	**403F92**	5/16 in	5/16 in	12 in	**403G98**
1/8 in	5/8 in	6 in	**403G57**	1/2 in	3/4 in	12 in	**403G97**
1/8 in	3/4 in	12 in	**403G60**				

Sharpener
6YB32

Sharpening Attachment
3ZH44

Drill Doctor — The Drill Bit Sharpener | GENERAL®

Drill Bit Sharpeners

Sharpeners—Easy chuck alignment system for quick, precise sharpening. 110V, 1.75 amp motor produces 20,000 rpm. Long-lasting diamond wheel sharpens standard twist, HSS, TiN, cobalt, carbide, and masonry drills in under 60 sec. 6YB32 and 6YB33 can be used with split point bits. 6YB32 includes carrying case.

Sharpening Attachment—Locks into 5 standard angles (88°, 68°, 59°, 49°, and 41°) to quickly resharpen drill bits. Use with ANSI, OSHA, UL Listed standard electric bench or surface grinders.

Features	Brand	Mfr. Model	Item No.
Sharpeners			
On-Chuck Alignment, Permanent Magnet Motor, V-Block Chuck Jaws Eliminate Jaw Twisting on Small Bits	Drill Doctor	DD350X	**6YB34**
Cast Aluminum Point Angle Shuttle, Jaw Guides Eliminate Jaw Twisting on Small Bits, Longer Chuck Jaws Hold Bits More Precisely, Longer Permanent Magnet Motor, Push-to-Stop Drill Point Splitting Port	Drill Doctor	DD500X	**6YB33**
Adjustable Material Take-Off, Cast Aluminum Point Angle Shuttle, Jaw Guides Eliminate Jaw Twisting on Small Bits, Longer Chuck Jaws Hold Bits More Precisely, Permanent Magnet Motor, Push-to-Stop Drill Point Splitting Port	Drill Doctor	DD750X	**6YB32**
Sharpening Attachment (For Use With Bench/Surface Grinders)			
Automatically Adjusts to the Correct Clearance Angle, For Standard Angles 88°, 68°, 59°, 49°, 41°, Works with ⅛ in to ¾ in, #1 to #30, A to Z, 3 to 19mm Drill Bits	General Tools	825	**3ZH44**

Type	For Use With Mfr. Model Number	Brand	Mfr. Model	Item No.
Replacement Grinding Wheels				
Standard, Diamond 180 Grit	400, 500, 750	Drill Doctor	SA01326GA	**2EJX5**
	DD750X, DD500X	Drill Doctor	DA31320GF	**2EJX1**
Coarse, Diamond 100 Grit	300, 400, 500, 750	Drill Doctor	SA01328GA	**2EJX6**
	DD750X, DD500X	Drill Doctor	DA31325GF	**2EJX2**
Replacement Chucks				
Chuck	DD750X, DD500X	Drill Doctor	DA70100PF	**2EJX3**
	—	Drill Doctor	DA02105PF	**2EJX4**

Drill Sharpener V-390
6MVH6

Drill Sharpener XT-3000
6MVH7

Drill Bit Sharpeners

DAREX

For standard conic and split point styles. Drill Sharpener V-390 6MVH6 is for light-duty, intermittent jobs. Drill Sharpener XT-3000 6MVH7 is an advanced manual sharpener for use on a variety of drill sizes and styles. Drill Sharpener with Auto Sharpener XT-3000 6MVK0 performs the same functions as 6MVH7, but automates the drill sharpening process for higher volume requirements.

Table Description	Grinding Wheel Dia. (in.)	Drill Dia./Cap.	Angles Sharpened	Mfr. Model	Item No.
Drill Sharpener V-390	3	⅛–¾"	118° to 140°	JVT390	**6MVH6**
Drill Sharpener XT-3000	6	⅛–13/16"	118° to 150°	LEX900	**6MVH7**
Drill Sharpener w/Auto Sharpener XT-3000	6	⅛ - 13/16	118° to 150°	LEX900A	**6MVK0**

Description	Mfr. Model	Item No.
For Use With No. 6MVH6		
Cubic Boron Nitride Grinding Wheel, 3" Dia., 180 Grit	PP11125GF	**6MVK3**
Diamond Grinding Wheel, 3" Dia., 180 Grit	PP11115GF	**6MVK4**
For Use With Nos. 6MVH7/6MVK0		
Cubic Boron Nitride Grinding Wheel, 6" Dia., 100 Grit	PP16060GF	**6MVK7**
Cubic Boron Nitride Grinding Wheel, 6" Dia., 180 Grit	PP16050GF	**6MVK5**
Diamond Grinding Wheel, 6" Dia., 180 Grit	PP16052GF	**6MVK6**
LEX200, LEX250, Mfr. No. XT-3000, Required with Attachments: Mfr. No. LEX150, XT-3000 Auto		
Drill Bit/End Mill Sharpener Part	LEX100	**6MVJ0**
Mfr. No. XT-3000		
Drill Bit/End Mill Sharpener Part, 3-21mm XT	LEX500	**6MVJ9**
Mfr. No. XT-3000, Mfr. No. XT-3000 Auto, Must Be Used with X-Y Table Mfr. No. LEX100		
Drill Bit/End Mill Sharpener Part, For Drill Bits and End Mills	LEX150	**6MVJ1** *
Mfr. No. XT-3000, XT-3000 Auto		
Drill Bit/End Mill Sharpener Part, XT-3000	LEX300	**6MVJ4**

** Requires LEX100.*

Jig Bore Style, Right Hand, Single End
33UN59

Bell Tip, Right Hand, Double End
33UM96

5-Pc. Set, Plain Tip, Right Hand, Double End
1DBT6

Center Drills

Center drills consist of a pilot drill and a countersink and are used to create holes at the center of a piece of stock so it can be turned between centers on a lathe in metalworking tasks. Drills with a **plain tip** are the standard choice for creating center holes. Drills with a **radius tip** have a tapered flute that allows them to create more accurate holes than other styles of center drills. Drills with a **bell tip** have a 120° chamfer on their tip that bevels the outer edge of the center hole to strengthen it and protect it from damage in applications where the piece of stock will go through multiple machining passes. **Jig-bore** drills have a flat on the shank for securing them to a jig borer machine with a set screw.

High-Speed Steel—Provides good wear resistance in a wide range of machining applications.

Cobalt Steel—Provides good wear resistance when machining hard materials at high speeds and is harder than high-speed steel.

Powdered Metal—Stronger than high-speed steel and cobalt steel.

Solid Carbide—Provides excellent wear resistance when machining the toughest materials, such as stainless steel.

Drill Size	Countersink Angle	Body Dia.	Drill Point Dia.	Overall Length	Bright (Uncoated) Item No.	TiN Item No.
Radius Tip, Right Hand, Double End						
High-Speed Steel						
#2	60°	3/16 in	5/64 in	1 7/8 in	33UM22	—
#3	60°	1/4 in	7/64 in	2 in	33UL56	—
Plain Tip, Right Hand, Double End						
Carbide						
#0	60°	1/8 in	1/32 in	1 1/2 in	1DBJ5	—
#1	60°	1/8 in	3/64 in	1 1/2 in	1DBJ6	—
#2	60°	3/16 in	5/64 in	2 in	1DBJ7	—
#3	60°	1/4 in	7/64 in	2 in	1DBJ8	—
#4	60°	5/16 in	1/8 in	2 1/8 in	1DBJ9	—
#4-0	60°	1/8 in	0.0150 in	1 1/2 in	33UN80	—
#5	60°	7/16 in	3/16 in	2 3/4 in	1DBK1	—
#6	60°	1/2 in	7/32 in	3 in	1DBK2	—
#7	60°	5/8 in	1/4 in	3 3/4 in	1DBK3	—
#8	82°	3/4 in	5/16 in	4 in	33UP11	—
Cobalt						
#0	60°	1/8 in	1/32 in	1 1/4 in	1DBF7	—
#1	60°	1/8 in	3/64 in	1 1/4 in	1DBF8	—
#2	60°	3/16 in	5/64 in	1 7/8 in	1DBF9	—
#2-0	60°	1/8 in	0.0250 in	1 1/4 in	1DBF6	—
#3	60°	1/4 in	7/64 in	2 in	1DBG1	—
#4	60°	5/16 in	1/8 in	2 1/8 in	1DBG2	—
#4-1/2	60°	3/8 in	9/64 in	2 1/2 in	33UN75	—
#5	60°	7/16 in	3/16 in	2 3/4 in	1DBG3	—
#6	60°	1/2 in	7/32 in	3 in	1DBG4	—
#7	60°	5/8 in	1/4 in	3 1/4 in	1DBG5	—
#10	60°	1 in	3/8 in	3 3/4 in	1DBG8	—
High-Speed Steel						
#0	60°	1/8 in	1/32 in	1 1/4 in	3P277	1DBE4
#0	82°	1/8 in	1/32 in	1 1/4 in	2RTW2	—
#0	90°	1/8 in	1/32 in	1 1/4 in	1DBH1	—
#1	60°	1/8 in	3/64 in	1 1/4 in	3P279	1DBE5
#1	60°	1/8 in	3/64 in	3 in	1DBK5	—
#1	60°	1/8 in	3/64 in	4 in	1DBK6	—
#1	60°	1/8 in	3/64 in	5 in	1DBK7	—
#1	60°	1/8 in	3/64 in	6 in	1DBK8	—
#1	82°	1/8 in	3/64 in	1 1/4 in	2RTW3	—
#1	90°	1/8 in	3/64 in	1 1/4 in	1DBH2	2RTX7
#2	60°	3/16 in	5/64 in	1 7/8 in	3P281	1DBE6
#2	60°	3/16 in	5/64 in	3 in	1DBK9	—
#2	60°	3/16 in	5/64 in	4 in	1DBL1	—
#2	60°	3/16 in	5/64 in	5 in	1DBL2	—
#2	60°	3/16 in	5/64 in	6 in	1DBL3	—
#2	82°	3/16 in	5/64 in	1 7/8 in	2RTW4	4FVX3
#2	90°	3/16 in	5/64 in	1 7/8 in	1DBH3	2RTX8
#2-0	60°	1/8 in	0.0200 in	1 1/4 in	3P275	—
#2-0	60°	1/8 in	0.0250 in	1 1/4 in	—	1DBE3
#3	60°	1/4 in	7/64 in	2 in	3P283	1DBE7
#3	60°	1/4 in	7/64 in	3 in	1DBL4	—
#3	60°	1/4 in	7/64 in	4 in	1DBL5	—
#3	60°	1/4 in	7/64 in	5 in	1DBL6	—
#3	60°	1/4 in	7/64 in	6 in	1DBL7	—
#3	82°	1/4 in	7/64 in	2 in	2RTW5	—
#3	90°	1/4 in	7/64 in	2 in	1DBH4	2RTX9
#4	60°	5/16 in	1/8 in	2 1/8 in	3P285	1DBE8
#4	60°	5/16 in	1/8 in	3 in	1DBL8	—
#4	60°	5/16 in	1/8 in	4 in	1DBL9	—
#4	60°	5/16 in	1/8 in	5 in	1DBN1	—
#4	60°	5/16 in	1/8 in	6 in	1DBN2	—
#4	82°	5/16 in	1/8 in	2 1/8 in	2RTW6	4FVX5
#4	90°	5/16 in	1/8 in	2 1/8 in	1DBH5	2RTY1
#4-1/2	60°	3/8 in	9/64 in	2 1/2 in	33UN71	33UN72
#4-1/2	60°	3/8 in	9/64 in	4 in	1DBN3	—
#4-1/2	60°	3/8 in	9/64 in	5 in	1DBN4	—
#4-1/2	60°	3/8 in	9/64 in	6 in	1DBN5	—
#4-1/2	82°	3/8 in	9/64 in	2 1/2 in	2RTW7	4FVX6
#4-1/2	90°	3/8 in	3/16 in	2 1/2 in	1DBH6	—
#5	60°	7/16 in	3/16 in	2 3/4 in	3P287	1DBE9
#5	60°	7/16 in	3/16 in	4 in	1DBN6	—
#5	60°	7/16 in	3/16 in	5 in	1DBN7	—
#5	60°	7/16 in	3/16 in	6 in	1DBN8	—
#5	82°	7/16 in	3/16 in	2 3/4 in	2RTW8	4FVX7
#5	90°	7/16 in	7/32 in	2 3/4 in	1DBH7	—
#6	60°	1/2 in	7/32 in	3 in	3P289	1DBF1
#6	60°	1/2 in	7/32 in	4 in	1DBN9	—
#6	60°	1/2 in	7/32 in	5 in	1DBP1	—
#6	60°	1/2 in	7/32 in	6 in	1DBP2	—
#6	82°	1/2 in	7/32 in	3 in	2RTW9	4FVX8
#6	90°	1/2 in	7/32 in	3 in	—	2RTY4
#6	90°	1/2 in	1/4 in	3 in	1DBH8	—
#7	60°	5/8 in	1/4 in	3 1/4 in	3P291	1DBF2
#7	60°	5/8 in	1/4 in	6 in	1DBP3	—
#7	82°	5/8 in	1/4 in	3 1/4 in	2RTX1	—
#7	90°	5/8 in	1/4 in	3 1/4 in	1DBH9	—
#8	60°	3/4 in	5/16 in	3 1/2 in	3P293	1DBF3
#8	82°	3/4 in	5/16 in	3 1/2 in	2RTX2	—
#8	90°	3/4 in	11/32 in	3 1/2 in	1DBJ1	—
#9	60°	7/8 in	11/32 in	3 5/8 in	3P295	1DBF4
#9	82°	7/8 in	11/32 in	3 5/8 in	2RTX3	—
#10	60°	1 in	3/8 in	3 3/4 in	3P297	1DBF5
#10	82°	1 in	3/8 in	3 3/4 in	2RTX4	—
Powdered Metal						
#4	60°	5/16 in	1/8 in	2 1/8 in	33UM36	—
#5	60°	7/16 in	3/16 in	2 3/4 in	33UM42	—
#6	60°	1/2 in	7/32 in	3 in	33UM48	—
Plain Tip, Left Hand, Double End						
High-Speed Steel						
#2	60°	3/16 in	5/64 in	1 7/8 in	33UL55	—
#3	60°	1/4 in	7/64 in	2 in	33UL57	—
#4	60°	5/16 in	1/8 in	2 1/8 in	33UL59	—
#6	60°	1/2 in	7/32 in	3 in	33UM53	—
Jig-Bore Style, Right Hand, Single End						
High-Speed Steel						
1/4 in	60°	1/2 in	1/4 in	3 1/2 in	33UN59	—
Bell Tip, Right Hand, Double End						
Carbide						
#15	60°	7/16 in	5/32 in	2 3/4 in	33UN96	—
Cobalt						
#12	60°	3/16 in	1/16 in	1 7/8 in	33UL63	—
High-Speed Steel						
#13	60°	1/4 in	3/32 in	2 in	33UM95	33UM96
#17	60°	5/8 in	7/32 in	3 1/4 in	33UN31	33UN32

Sizes Incl.	Bright (Uncoated) Item No.	TiN Item No.
5-Pc. Sets, Plain Tip, Right Hand, Double End		
High-Speed Steel		
#1, #2, #3, #4, #5	1DBT6	4FUA2
Cobalt		
#1, #2, #3, #4, #5	4FUA3	—
Carbide		
#1, #2, #3, #4, #5	4FUA4	—

Fast-Cut 1-Flute
21MK99

7-Pc. Set
21ML39

High-Speed Steel Countersinks

- 82° countersink angle
- Bright finish

Countersinks expand the top of an existing hole in a workpiece to allow countersinking screws to install flush with the surface of the workpiece. This helps prevent the workpiece material from swelling when a screw is inserted in the hole and tightened down.

Fast-Cut 1-Flute—Leaves clean edges on holes and has a high, positive rake that reduces vibration.

3-Flute—Typically provides better chip clearance and performs better when machining stringy materials than countersinks with more flutes.

6-Flute—Provides fast material removal and leaves a smooth finish. Removes more material with each revolution and typically provides more wear resistance than countersinks with fewer flutes.

Body Dia.	Shank Dia.	Shank Length	Overall Length	Item No.
Fast Cut 1-Flute				
1/4 in	1/4 in	—	1 1/2 in	21ML02
3/8 in	1/4 in	7/8 in	1 3/4 in	21MK98
1/2 in	1/4 in	1 in	2 in	21MK97
5/8 in	3/8 in	1 in	2 1/4 in	21ML01
3/4 in	1/2 in	1 1/4 in	2 5/8 in	21MK99
1 in	1/2 in	1 1/4 in	2 3/4 in	21ML03
1 1/4 in	1/2 in	1 1/4 in	2 3/4 in	21ML04
3-Flute				
1/4 in	1/4 in	—	1 1/2 in	21ML12
3/8 in	1/4 in	7/8 in	1 3/4 in	21ML08
1/2 in	1/4 in	1 in	2 in	21ML07
5/8 in	3/8 in	1 in	2 1/4 in	21ML10
3/4 in	1/2 in	1 1/4 in	2 5/8 in	21ML09
1 in	1/2 in	1 1/4 in	2 3/4 in	21ML11
6-Flute				
1/4 in	1/4 in	—	1 1/2 in	21ML19
1/2 in	1/4 in	1 in	2 in	21ML27
1/2 in	3/8 in	1 in	2 in	21ML34
5/8 in	3/8 in	1 in	2 1/4 in	21ML30
3/4 in	1/2 in	1 1/4 in	2 5/8 in	21ML28
7/8 in	1/2 in	1 1/4 in	2 3/4 in	21ML36
1 in	1/2 in	1 1/4 in	2 3/4 in	21ML31
1 1/4 in	1/2 in	1 1/4 in	2 3/4 in	21ML38

No. of Pieces	No. of Flutes	Sizes Included	Item No.
Countersink Sets			
5	1	1/4", 3/8", 1/2", 3/4", 1"	21ML06
5	3	1/4", 3/8", 1/2", 3/4", 1"	21ML13
7	6	1/4", 3/8", 1/2", 5/8", 3/4", 1"	21ML26
7	6	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	21ML39

Additional countersink and reamer sizes, types, and brands are available on Grainger.com®.

Countersink Material Information

High-Speed Steel—Provides good wear resistance in a wide range of countersinking applications.

Cobalt Steel—Provides good wear resistance when machining hard materials at high speeds and is harder than high-speed steel.

Bright (Uncoated)—Unaffected when the countersink's cutting edges are resharpened.

TiN—Protects against wear, increases chip flow in softer materials, and allows for higher speeds than bright (uncoated) finish.

TiAlN—Protects against wear in dry, high-speed machining tasks and can withstand high temperatures.

Bright (Uncoated)
1DBP5

5-Pc. TiN
4FWC8

KEO

Anti-Vibration Cobalt Steel Zero-Flute Countersinks

Zero-flute countersinks minimize vibration and chatter during use and prevent chips from sticking to the tool. They leave smooth, clean edges as they expand the top of a hole in countersinking tasks. Commonly used for installing aluminum frame storefronts, glass and window design, and architectural metalworking applications.

Body Dia.	Shank Dia.	Shank Length	Overall Length	Bright (Uncoated) 60° Item No.	Bright (Uncoated) 82° Item No.	TiN 60° Item No.	TiN 82° Item No.	TiN 90° Item No.	TiN 100° Item No.
5/16 in	¼ in	—	1 ⅝ in	—	—	—	—	—	33UT95
	¼ in	1 ¼ in	1 ⅞ in	1DBP5	4FWA2	4FVY4	4FWC1	4FVZ3	—
⅜ in	¼ in	—	1 ¾ in	—	—	—	—	—	33UT97
	¼ in	1 ⅛ in	1 ⅞ in	1DBP6	—	—	—	—	—
	¼ in	1 ¼ in	1 ⅞ in	—	4FWA3	4FVY5	4FWC2	4FVZ4	—
½ in	5/16 in	—	1 ¾ in	—	—	—	—	—	33UT98
	5/16 in	1 ⅛ in	2 in	1DBP7	—	—	—	—	—
	5/16 in	1 ¼ in	2 in	—	4FWA4	4FVY6	4FWC3	4FVZ5	—
⅝ in	⅜ in	—	2 ⅛ in	—	—	—	—	—	33UU01
	⅜ in	1 ⅜ in	2 ½ in	1DBP8	—	—	—	—	—
	⅜ in	1 ¼ in	2 ½ in	—	4FWA5	4FVY7	4FWC4	4FVZ6	—
¾ in	⅜ in	—	2 ⅜ in	—	—	—	—	—	33UU03
	⅜ in	1 ⅜ in	2 ¾ in	1DBP9	—	—	—	—	—
	⅜ in	1 ¼ in	2 ¾ in	—	4FWA6	4FVY8	4FWC5	4FVZ7	—
1 in	⅜ in	—	2 ⅝ in	—	—	—	—	—	33UU05
	⅜ in	1 ¼ in	3 in	—	4FWA7	4FVY9	4FWC6	4FVZ8	—
1 ¼ in	½ in	—	3 ⅛ in	—	—	—	—	—	33UU07
	½ in	1 ¼ in	3 ½ in	—	4FWA8	4FVZ1	4FWC7	4FVZ9	—
5-Pc. Countersink Sets									
5/16 in, ⅜ in, ½ in, ¾ in, 1 in				1DBR3	4FWA9	4FVZ2	4FWC8	4FWA1	—

High-Speed Steel, Bright (Uncoated)
1DBW9

5-Pc. High-Speed Steel, Bright (Uncoated)
1DBU4

Fast-Cut 1-Flute Countersinks

KEO

Single-flute countersinks can be used at high speeds. They have a high, positive rake that reduces vibration during use, and they leave clean edges as they expand the top of a hole in countersinking applications.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HSS Bright 60° Item No.	HSS Bright 82° Item No.	HSS Bright 90° Item No.	HSS Bright 100° Item No.	HSS Bright 120° Item No.	Cobalt Bright 60° Item No.	Cobalt Bright 82° Item No.	Cobalt Bright 90° Item No.	Cobalt Bright 100° Item No.	Cobalt Bright 120° Item No.
¼ in	¼ in	—	1 ½ in	1DBW9	3P423	3P425	4FUA7	4FUF4	3YRH4	3YRL1	3ZTU9	3ZTX6	3ZUD9
⅜ in	¼ in	⅞ in	1 ¾ in	1DBX1	3P434	3P439	4FUA8	4FUF5	3YRH5	3ZTR4	3ZTV1	3ZTX7	3ZUE1
½ in	¼ in	1 in	2 in	1DBX2	3P419	3P421	4FUA9	4FUF6	3YRH6	3ZTR5	3ZTV2	3ZTX8	3ZUE2
⅝ in	⅜ in	1 in	2 ¼ in	1DBX3	3P441	3P446	4FUD1	4FUF7	3YRH7	3ZTR6	3ZTV3	3ZTX9	3ZUE3
¾ in	½ in	1 ¼ in	2 ⅝ in	1DBX4	3P427	3P429	4FUD2	4FUF8	3YRH8	3ZTR7	3ZTV4	3ZTY1	3ZUE4
1 in	½ in	1 ¼ in	2 ¾ in	1DBX5	3P415	3P417	4FUD3	4FUF9	3YRH9	3ZTR8	3ZTV5	3ZTY2	3ZUE5
1 ¼ in	½ in	1 ¼ in	2 ¾ in	—	4FWF8	4FWG3	4FUD4	4FUH1	—	3ZTR9	3ZTV6	3ZTY3	3ZUE6
1 ½ in	¾ in	1 ¼ in	2 ⅞ in	—	4FWG4	4FWF9	4FUD5	4FUH2	—	3ZTT1	3ZTV7	3ZTY4	3ZUE7
5-Pc. Countersink Sets													
¼ in, ⅜ in, ½ in, ¾ in, 1 in				1DBU4	1DBU5	1DBU6	4FVD3	4FVD4	3ZUG4	3ZUG5	3ZUG6	3ZUG7	3ZUG9

(HSS Bright = HIGH-SPEED STEEL, BRIGHT (UNCOATED); Cobalt Bright = COBALT, BRIGHT (UNCOATED))

High-Speed Steel, Bright (Uncoated)
1DBX6

5-Pc. High-Speed Steel, Bright (Uncoated)
1DBT7

General Purpose 3-Flute Countersinks

KEO

Three-flute countersinks typically provide better chip clearance and perform better when machining stringy materials than countersinks with more flutes. These countersinks are compatible with a range of materials and are the most common choice for expanding the top of a hole in countersinking tasks.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 60° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 82° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 90° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 100° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 120° Item No.	COBALT, BRIGHT (UNCOATED) 60° Item No.	COBALT, BRIGHT (UNCOATED) 82° Item No.	COBALT, BRIGHT (UNCOATED) 90° Item No.	COBALT, BRIGHT (UNCOATED) 100° Item No.	COBALT, BRIGHT (UNCOATED) 120° Item No.
¼ in	¼ in	—	1 ½ in	1DBX6	3P390	3P392	4FUJ8	4FUP1	3YPH2	3YPK4	3YPN6	3YPR8	3YPX3
⅜ in	¼ in	⅞ in	1 ¾ in	1DBX7	3P399	3P401	4FUJ9	4FUP2	3YPH3	3YPK5	3YPN7	3YPR9	3YPX4
½ in	¼ in	1 in	2 in	1DBX8	3P386	3P388	4FUL1	4FUP3	3YPH4	3YPK6	3YPN8	3YPT1	3YPX5
⅝ in	⅜ in	1 in	2 ¼ in	1DBX9	3P403	3P405	4FUL2	4FUP4	3YPH5	3YPK7	3YPN9	3YPT2	3YPX6
¾ in	½ in	1 ¼ in	2 ⅝ in	1DBY1	3P395	3P397	4FUL3	4FUP5	3YPH6	3YPK8	3YPP1	3YPT3	3YPX7
1 in	½ in	1 ¼ in	2 ¾ in	4FWG5	3P407	3P411	4FUL4	4FUP6	3YPH7	3YPK9	3YPP2	3YPT4	3YPX8
1 ¼ in	½ in	1 ¼ in	2 ¾ in	—	4FWG8	4FWH1	4FUL5	4FUP7	—	3YPL1	3YPP3	3YPT5	3YPX9
1 ½ in	¾ in	1 ¼ in	2 ⅞ in	—	4FWG9	4FWH2	4FUL6	4FUP8	—	3YPL2	3YPP4	3YPT6	3YPY1
5-Pc. Countersink Sets													
¼ in, ⅜ in, ½ in, ¾ in, 1 in				1DBT7	1DBT8	1DBT9	4FVD5	4FVU8	3YRG5	3YRG6	3YRG7	3YRG8	3YRH1

High-Speed Steel, Bright (Uncoated)
1DBY7

KEO

Smooth-Finish 6-Flute Countersinks

Six-flute countersinks provide fast material removal and leave a smooth finish as they expand the top of a hole in countersinking tasks. They remove more material with each revolution and typically provide more wear resistance than countersinks with fewer flutes.

Body Dia.	Shank Dia.	Shank Length	Overall Length	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 60° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 82° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 90° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 100° Item No.	HIGH-SPEED STEEL, BRIGHT (UNCOATED) 120° Item No.	COBALT, BRIGHT (UNCOATED) 60° Item No.	COBALT, BRIGHT (UNCOATED) 82° Item No.	COBALT, BRIGHT (UNCOATED) 90° Item No.	COBALT, BRIGHT (UNCOATED) 100° Item No.	COBALT, BRIGHT (UNCOATED) 120° Item No.
¼ in	¼ in	—	1 ½ in	1DBY2	1DBY8	1DBZ5	4FUT5	4FUY5	3ZUH3	3ZUN3	3ZWY2	3ZXE2	3ZXP2
5/16 in	¼ in	⅞ in	1 ¾ in	4FWH5	4FWJ4	4FWK3	4FUT6	4FUY6	3ZUH4	3ZUN4	3ZWY5	—	3ZXP3
⅜ in	¼ in	⅞ in	1 ¾ in	1DBY3	1DBY9	1DBZ6	4FUT7	4FUY7	3ZUH5	3ZUN5	3ZWY7	3ZXE4	3ZXP4
½ in	¼ in	1 in	2 in	1DBY4	1DBZ1	1DBZ7	4FUT8	4FUY8	3ZUH6	3ZUN6	3ZWY9	3ZXE5	3ZXP5
½ in	⅜ in	1 in	2 in	4FWH6	4FWJ5	4FWK4	4FUT9	4FUY9	3ZUH7	3ZUN7	3ZWZ2	3ZXE6	3ZXP6
⅝ in	¼ in	1 in	2 ¼ in	1DBY5	1DBZ2	1DBZ8	4FUU1	4FUZ1	3ZUH8	3ZUN8	3ZWZ4	3ZXE7	3ZXP7
⅝ in	⅜ in	1 in	2 ¼ in	4FWH7	4FWJ6	4FWK5	4FUU2	4FUZ2	3ZUH9	3ZUN9	3ZWZ6	3ZXE8	3ZXP8
¾ in	½ in	1 ¼ in	2 ⅝ in	1DBY6	1DBZ3	1DBZ9	4FUU3	4FUZ3	3ZUJ1	3ZUP1	3ZWZ8	3ZXE9	3ZXP9
⅞ in	½ in	1 ¼ in	2 ¾ in	4FWH8	4FWJ7	4FWK6	4FUU4	4FUZ4	3ZUJ2	3ZUP2	3ZXA1	3ZXF1	3ZXR1
1 in	½ in	1 ¼ in	2 ¾ in	1DBY7	1DBZ4	1MBY7	4FUU5	4FUZ5	3ZUJ3	3ZUP3	3ZXA2	3ZXF2	3ZXR2
1 ¼ in	½ in	1 ¼ in	2 ¾ in	—	4FWJ8	4FWK7	4FUU6	4FUZ6	—	3ZUP4	3ZXA3	3ZXF3	3ZXR3
1 ½ in	¾ in	1 ¼ in	2 ⅞ in	—	4FWJ9	4FWK8	4FUU7	4FUZ7	—	3ZUP5	3ZXA4	3ZXF4	3ZXR4
7-Pc. Countersink Sets													
¼ in, 5/16 in, ⅜ in, ½ in, ⅝ in, ¾ in, 1 in				1DBU1	1DBU2	1DBU3	4FVD7	4FVD8	3ZXU9	3ZXV1	3ZXV2	3ZXV3	3ZXV5

Body Dia.	Shank Dia.	Shank Length	Overall Length	BRIGHT (UNCOATED) 60° Item No.	82° Item No.	90° Item No.	100° Item No.	TiALN 60° Item No.	82° Item No.	90° Item No.	100° Item No.
Fast-Cut 1-Flute											
⅛ in	⅛ in	—	1 ¼ in	3ZXV6	3ZXX6	3ZXZ6	3ZYC6	3ZXW6	3ZXY6	3ZYA6	3ZYE5
3⁄16 in	3⁄16 in	—	1 ⅜ in	3ZXV7	3ZXX7	3ZXZ7	3ZYC7	3ZXW7	3ZXY7	3ZYA7	3ZYE7
¼ in	¼ in	—	1 ½ in	3ZXV8	3ZXX8	3ZXZ8	3ZYC9	3ZXW8	3ZXY8	3ZYA8	3ZYE9
⅜ in	⅜ in	⅞ in	1 ¾ in	3ZXV9	3ZXX9	3ZXZ9	3ZYD2	3ZXW9	3ZXY9	3ZYA9	3ZYF2
½ in	¼ in	1 in	2 in	—	—	3ZYA1	—	—	—	3ZYC1	—
½ in	½ in	1 in	2 in	3ZXW1	3ZXY1	—	3ZYD4	3ZXX1	3ZXZ1	—	3ZYF4
⅝ in	⅝ in	1 in	2 ¼ in	3ZXW2	3ZXY2	3ZYA2	3ZYD6	3ZXX2	3ZXZ2	3ZYC2	3ZYF6
¾ in	¾ in	1 ¼ in	2 ⅝ in	3ZXW3	3ZXY3	3ZYA3	3ZYD8	3ZXX3	3ZXZ3	3ZYC3	3ZYF7
1 in	½ in	1 ¼ in	2 ¾ in	—	—	3ZYA4	—	—	—	—	—
1 in	1 in	1 ¼ in	2 ¾ in	3ZXW4	3ZXY4	—	3ZYE1	3ZXX4	3ZXZ4	3ZYC4	3ZYF8
1 ¼ in	¾ in	1 ¼ in	3 in	—	—	3ZYA5	—	—	—	—	—
1 ¼ in	1 ¼ in	1 ¼ in	3 in	3ZXW5	3ZXY5	—	3ZYE3	3ZXX5	3ZXZ5	3ZYC5	3ZYF9
3-Flute											
⅛ in	⅛ in	—	1 ¼ in	3ZYG1	3ZYJ1	3ZYL1	3ZYT1	3ZYH1	3ZYK1	3ZYP1	3ZYV1
3⁄16 in	3⁄16 in	—	1 ⅜ in	3ZYG2	3ZYJ2	3ZYL3	3ZYT3	3ZYH2	3ZYK2	3ZYP3	3ZYV3
¼ in	¼ in	—	1 ½ in	3ZYG3	3ZYJ3	3ZYL5	3ZYT5	3ZYH3	3ZYK3	3ZYP5	2ZTP2
⅜ in	¼ in	⅞ in	1 ¾ in	3ZYG4	3ZYJ4	3ZYL7	3ZYT7	3ZYH4	3ZYK4	3ZYP7	2ZTV5
½ in	¼ in	1 in	2 in	3ZYG5	3ZYJ5	3ZYL9	3ZYT9	3ZYH5	3ZYK5	3ZYP9	4CJT2
⅝ in	⅜ in	1 in	2 ¼ in	3ZYG6	3ZYJ6	3ZYN2	3ZYU2	3ZYH6	3ZYK6	3ZYR2	4CJT3
¾ in	½ in	1 ¼ in	2 ⅝ in	3ZYG7	3ZYJ7	3ZYN4	3ZYU4	3ZYH7	3ZYK7	3ZYR4	4CJT4
1 in	½ in	1 ¼ in	2 ¾ in	3ZYG8	3ZYJ8	3ZYN6	3ZYU6	3ZYH8	3ZYK8	3ZYR6	4CJT5
1 ¼ in	½ in	1 ¼ in	3 in	3ZYG9	3ZYJ9	3ZYN8	3ZYU8	3ZYH9	3ZYK9	3ZYR8	4CJT6
6-Flute											
⅛ in	⅛ in	—	1 ¼ in	4CJT7	4CJV9	4CJY2	4CKA4	4CJU8	4CJX1	4CJZ3	4CKC5
3⁄16 in	3⁄16 in	—	1 ⅜ in	4CJT8	4CJW1	4CJY3	4CKA5	4CJU9	4CJX2	4CJZ4	4CKC6
¼ in	¼ in	—	1 ½ in	4CJT9	4CJW2	4CJY4	4CKA6	4CJV1	4CJX3	4CJZ5	4CKC7
⅜ in	¼ in	⅞ in	1 ¾ in	4CJU1	4CJW3	4CJY5	4CKA7	4CJV2	4CJX4	4CJZ6	4CKC8
½ in	¼ in	1 in	2 in	4CJU2	4CJW4	4CJY6	4CKA8	4CJV3	4CJX5	4CJZ7	4CKC9
⅝ in	⅜ in	1 in	2 ¼ in	4CJU3	4CJW5	4CJY7	4CKA9	4CJV4	4CJX6	4CJZ8	4CKD1
¾ in	½ in	1 ¼ in	2 ⅝ in	4CJU4	4CJW6	4CJY8	4CKC1	4CJV5	4CJX7	4CJZ9	4CKD2
1 in	½ in	1 ¼ in	2 ¾ in	4CJU5	4CJW7	4CJY9	4CKC2	4CJV6	4CJX8	4CKA1	4CKD3
1 ¼ in	½ in	1 ¼ in	3 in	4CJU6	—	4CJZ1	4CKC3	4CJV7	—	4CKA2	—
1 ¼ in	¾ in	1 ¼ in	3 in	—	4CJW8	—	—	—	4CJX9	—	4CKD4
1 ½ in	¾ in	1 ¼ in	3 ¼ in	4CJU7	4CJW9	4CJZ2	4CKC4	4CJV8	4CJY1	4CKA3	4CKD5

Sizes Incl.	BRIGHT (UNCOATED) 82° Item No.	90° Item No.	100° Item No.	60° Item No.	TiAIN 82° Item No.	90° Item No.	100° Item No.	60° Item No.
5-Pc. Countersink Sets								
Fast-Cut Single Flutes								
¼", ⅜", ½", ¾", 1"	4CKD8	4CKE1	4CKE3	—	4CKD9	4CKE2	4CKE4	4CKD7
3-Flutes								
¼", ⅜", ½", ¾", 1"	4CKE7	4CKE9	4CKF2	4CKE5	4CKE8	4CKF1	4CKF3	4CKE6
6-Flutes								
¼", ⅜", ½", ¾", 1"	4CKF6	4CKF8	4CKG1	4CKF4	4CKF7	4CKF9	4CKG2	4CKF5

5-Pc. Set
6-Flutes
4CKF4

Fast-Cut 1-Flute
Bright (Uncoated)
3ZXY4

KEO

Carbide Countersinks

Carbide countersinks provide excellent wear resistance when machining the toughest materials, such as stainless steel.

Fast-Cut 1-Flute—Leaves clean edges on holes and has a high, positive rake that reduces vibration.

3-Flute—Typically provides better chip clearance and performs better when machining stringy materials than countersinks with more flutes.

6-Flute—Provides fast material removal and leaves a smooth finish. Removes more material with each revolution and typically provides more wear resistance than countersinks with fewer flutes.

KEO

Cobalt Steel Counterbores with Built-In Pilots

Counterbores make a flat-bottomed cavity at the top of a hole so that a bolt, nut, or other part is hidden beneath or sits flush with the top of the hole when installed into it. Also called solid pilot counterbores, these counterbores have a built-in pilot that keeps them centered in the hole to ensure a level seat. The pilot cannot be removed. Cobalt steel counterbores provide good wear resistance when machining hard materials at high speeds. For additional sizes, see Grainger.com®.

Oversized
2RTL8

For Screw Size	Bore Dia.	Pilot Dia.	Overall Length	Shank Dia.	Item No.
Oversized					
#6	15⁄64 in	9⁄64 in	3 in	7⁄32 in	2RTL8
#8	9⁄32 in	11⁄64 in	3 in	¼ in	2RTN2
#10	21⁄64 in	13⁄64 in	4 ½ in	9⁄32 in	2RTN5
¼ in	13⁄32 in	9⁄32 in	4 ½ in	5⁄16 in	2RTN9
¼ in	25⁄64 in	¼ in	4 ½ in	5⁄16 in	2RTN8
5⁄16 in	31⁄64 in	5⁄16 in	4 ½ in	⅜ in	2RTP2
⅝ in	61⁄64 in	⅝ in	6 in	⅝ in	2RTR5
5⁄16 in	½ in	21⁄64 in	4 ½ in	⅜ in	2RTP3
⅜ in	19⁄32 in	13⁄32 in	5 in	½ in	2RTP6
⅜ in	37⁄64 in	⅜ in	5 in	½ in	2RTP5
7⁄16 in	11⁄16 in	29⁄64 in	5 in	½ in	2RTP9
7⁄16 in	43⁄64 in	7⁄16 in	5 in	½ in	2RTP8
½ in	25⁄32 in	33⁄64 in	6 in	½ in	2RTR3
½ in	49⁄64 in	½ in	6 in	½ in	2RTR2
⅝ in	31⁄32 in	⅝ in	6 in	⅝ in	2RTR6
¾ in	1 3⁄16 in	49⁄64 in	7 in	¾ in	2RTR8
1 in	1 37⁄64 in	1 1⁄32 in	7 in	1 in	2RTT3
Standard					
#4	13⁄64 in	9⁄64 in	3 in	5⁄32 in	2RTL3
#5	15⁄64 in	5⁄32 in	3 in	3⁄16 in	2RTL6
7⁄16 in	21⁄32 in	27⁄64 in	5 in	½ in	2RTP7
½ in	¾ in	½ in	5 in	½ in	2RTR1
⅝ in	15⁄16 in	⅝ in	6 in	⅝ in	2RTR4
¾ in	1 11⁄64 in	49⁄64 in	7 in	¾ in	2RTR7
⅞ in	1 25⁄64 in	57⁄64 in	7 in	⅞ in	2RTR9
M3	6.00 mm	3.4 mm	71.00 mm	5.00 mm	12J465
M8	15.00 mm	6.8 mm	100.00 mm	12.50 mm	12J478
M12	20.00 mm	10.2 mm	100.00 mm	12.50 mm	12J484
7-Pc. Sets					
#10, #6, #8, ½ in, ¼ in, ⅜ in, 5⁄16 in					1DBT3
#10, #6, #8, ½ in +1/32 in OS, ¼ in, ⅜ in, 5⁄16 in					1DBT5
#10, #6, #8, ½ in +1/64 in OS, ¼ in, ⅜ in, 5⁄16 in					1DBT4
M3, M4, M5, M6, M8, M10					33UV20

7-Pc. Set
1DBT3

Broaches

HS Hassay Savage Company

- High-speed steel

Broaches machine keyways and other shapes into a hole. **Davis-style keyway** broaches create precise keyways in the bore holes of pulleys, gears, washers, and other shaft-mounted parts to lock them to keyed shafts. **Hex** and **square** broaches punch hexagonal or square holes in fixtures, jigs, and sockets. Hex broaches turn a round pilot hole into a hexagonal hole in a single pass. Square broaches turn a round pilot hole into a square hole in a single pass.

Keyway Width	Broach Length	Min. Length of Cut	Max. Length of Cut	Item No.
Davis-Style Keyway				
1⁄16 in	16 in	⅝ in	1 ⅞ in	12V210
3⁄16 in	20 in	⅝ in	3 ⅛ in	12V215
5⁄16 in	20 in	1 1⁄16 in	5 3⁄16 in	12V219
⅜ in	16 in	1 1⁄16 in	3 3⁄16 in	12V220
9⁄16 in	20 in	1 1⁄16 in	5 3⁄16 in	12V225
1 in	20 in	1 1⁄16 in	5 3⁄16 in	12V229
2.00 mm	16 in	⅝ in	1 ⅞ in	12V247
5.00 mm	16 in	⅝ in	1 ⅞ in	12V250
8.00 mm	20 in	1 1⁄16 in	3 3⁄16 in	12V255
14.00 mm	20 in	1 1⁄16 in	5 5⁄16 in	12V259
25.00 mm	20 in	1 1⁄16 in	5 5⁄16 in	12V265

Hex Size	Drill Size	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure Required	Item No.
Hex						
⅛ in	⅛ in	4 ⅝ in	3⁄16 in	⅜ in	120 lb	12V266
13⁄32 in	13⁄32 in	10 in	½ in	1 ⅜ in	4,100 lb	12V275
9⁄16 in	9⁄16 in	14 ¼ in	½ in	1 ½ in	6,700 lb	12V279
⅝ in	⅝ in	16 ⅞ in	⅝ in	1 ⅝ in	7,250 lb	12V280
4.00 mm	4.00 mm	5 ½ in	¼ in	½ in	340 lb	12V285
8.00 mm	8.00 mm	8 ¼ in	⅜ in	1 in	2,175 lb	12V289
20.00 mm	20.00 mm	17 ⅞ in	⅝ in	1 ⅝ in	14,150 lb	12V295
25.00 mm	25.00 mm	19 ⅞ in	⅝ in	1 ⅝ in	22,000 lb	12V298

Square Size	Drill Size	Broach Length	Min. Length of Cut	Max. Length of Cut	Pressure Required	Item No.
Square						
3⁄16 in	3⁄16 in	6 ¼ in	3⁄16 in	½ in	1,200 lb	12V319
9⁄32 in	19⁄64 in	7 ¼ in	⅜ in	1 in	2,300 lb	12V305
13⁄32 in	27⁄64 in	10 ⅞ in	½ in	1 ⅜ in	5,200 lb	12V309
½ in	½ in	14 7⁄16 in	⅜ in	1 in	5,000 lb	12V323
11⁄16 in	¾ in	18 ½ in	⅝ in	1 ⅝ in	7,300 lb	12V315
1 in	1 3⁄32 in	24 ½ in	½ in	2 in	12,500 lb	12V318
4.00 mm	4.20 mm	5 9⁄16 in	5⁄16 in	⅝ in	1,000 lb	12V324
5.00 mm	10.30 mm	6 ¾ in	19⁄64 in	1 11⁄16 in	2,040 lb	12V233
8.00 mm	8.30 mm	8 3⁄16 in	7⁄16 in	⅞ in	2,500 lb	12V327
22.00 mm	22.00 mm	18 ⅞ in	⅞ in	1 ¾ in	9,500 lb	12V333
27.00 mm	27.00 mm	24 9⁄16 in	⅞ in	1 ¾ in	10,500 lb	12V336
#1	#1	6 ⅞ in	¼ in	¾ in	1,580 lb	12V303
#30	#30	4 ⅝ in	3⁄16 in	½ in	700 lb	12V299

Davis-Style
Keyway
12V210

Hex
12V285

Square
12V299

Additional reamer sizes and types are available on Grainger.com®.

4LGU1

WESTWARD

Adjustable Hand Reamers

- High-speed steel
- Black-oxide finish
- Sets supplied in wooden box

Adjustable hand reamers have nuts and straight blades that can be adjusted to allow the tool to enlarge or finish holes of different sizes. The blades can be sharpened and replaced. The reamers push chips forward into the hole and are suitable for reaming through holes. They are held with a tap wrench, adjustable wrench, or vise and slowly rotated to feed them into a hole.

No. of Pieces	Sizes Included	Item No.
Adjustable Hand Reamer Sets		
3	3/8 in to 15/32 in	**4LGU2**
8	15/32 in to 1 1/16 in	**4LGU3**
11	15/32 in to 1 1/2 in	**4LGU4**
16	3/8 in to 2 7/32 in	**4LGU5**

Min. Reamer Size	Max. Reamer Size	Overall Length	Item No.
3/8 in	13/32 in	4 3/4 in	**4LGR4**
13/32 in	7/16 in	5 in	**4LGR5**
7/16 in	15/32 in	5 1/4 in	**4LGR6**
15/32 in	17/32 in	5 1/2 in	**4LGR7**
19/32 in	21/32 in	6 1/4 in	**4LGR9**
21/32 in	23/32 in	6 3/4 in	**4LGT1**
23/32 in	25/32 in	7 in	**4LGT2**
25/32 in	27/32 in	7 3/8 in	**4LGT3**
27/32 in	15/16 in	8 in	**4LGT4**
15/16 in	1 1/16 in	9 in	**4LGT5**
1 1/16 in	1 3/16 in	10 in	**4LGT6**
1 3/16 in	1 11/32 in	11 in	**4LGT7**
1 11/32 in	1 1/2 in	12 in	**4LGT8**
1 1/2 in	1 13/16 in	14 in	**4LGT9**
1 13/16 in	2 7/32 in	16 in	**4LGU1**

20D404

YANKEE

High-Speed Steel Straight Shank Expansion Reamers

These reamers have an adjustment screw that expands the size of their cutting head so it can be reground to its original size. This lets users compensate for wear on the reamers' cutting edge to extend the tools' life. The reamers enlarge or finish a hole to a precise tolerance or size.

Reamer Size	Flute Length	Overall Length	Shank Dia.	Item No.
3/8 in	3/4 in	7 in	5/16 in	**20D404**
13/32 in	3/4 in	7 in	5/16 in	**20D405**
7/16 in	7/8 in	7 in	3/8 in	**20D406**
15/32 in	7/8 in	7 in	3/8 in	**20D407**
1/2 in	1 in	8 in	7/16 in	**20D408**
17/32 in	1 in	8 in	7/16 in	**20D409**
9/16 in	1 1/4 in	8 in	7/16 in	**20D410**
19/32 in	1 1/4 in	8 in	7/16 in	**20D411**
5/8 in	1 1/4 in	9 in	9/16 in	**20D412**
21/32 in	1 1/4 in	9 in	9/16 in	**20D413**
11/16 in	1 1/4 in	9 in	9/16 in	**20D414**
23/32 in	1 1/4 in	9 in	9/16 in	**20D415**
3/4 in	1 3/8 in	9 1/2 in	5/8 in	**20D416**
25/32 in	1 3/8 in	9 1/2 in	5/8 in	**20D417**
13/16 in	1 3/8 in	9 1/2 in	5/8 in	**20D418**
27/32 in	1 3/8 in	9 1/2 in	5/8 in	**20D419**
7/8 in	1 1/2 in	10 in	3/4 in	**20D420**
29/32 in	1 1/2 in	10 in	3/4 in	**20D421**
15/16 in	1 1/2 in	10 in	3/4 in	**20D422**
31/32 in	1 1/2 in	10 in	3/4 in	**20D423**
1 in	1 5/8 in	10 1/2 in	7/8 in	**20D424**
1 1/32 in	1 5/8 in	10 1/2 in	7/8 in	**20D425**
1 1/16 in	1 5/8 in	10 1/2 in	7/8 in	**20D426**
1 3/32 in	1 5/8 in	10 1/2 in	7/8 in	**20D427**
1 1/8 in	1 3/4 in	11 in	7/8 in	**20D428**
1 5/32 in	1 3/4 in	11 in	7/8 in	**20D429**
1 3/16 in	1 3/4 in	11 in	1 in	**20D430**
1 7/32 in	1 3/4 in	11 in	1 in	**20D431**
1 1/4 in	1 7/8 in	11 1/2 in	1 in	**20D432**
1 5/16 in	1 7/8 in	11 1/2 in	1 in	**20D433**
1 3/8 in	2 in	12 in	1 in	**20D434**
1 7/16 in	2 in	12 in	1 1/4 in	**20D435**
1 1/2 in	2 1/8 in	12 1/2 in	1 1/4 in	**20D436**

OSG Super Tool, Inc. YANKEE CLEVELAND

Chucking Reamers

- Straight shank
- Non-coolant-through design

Chucking reamers mount to a compatible machine such as a drill press, lathe, or screw machine. They enlarge or finish a hole to an exact tolerance or size for a precise fit when installing fasteners or other parts, and they typically have a 45° chamfer on the cutting edge to maximize accuracy as they enter the hole. **Carbide** reamers are suitable for machining the toughest materials. **Carbide-tipped** reamers offer the strength and wear resistance of carbide on just the cutting edge. **Cobalt** reamers are suitable for machining hard materials at high speeds. **High-speed steel** reamers are suitable for general purpose applications. **Right-hand spiral-flute** reamers pull chips out of the hole. **Straight-flute** reamers push chips into the hole.

Carbide, Straight-Flute 21T225

13-Pc. Set High-Speed Steel, Right-Hand Straight Flute 11V296

Reamer Size	Dec. Equiv.	Flute Length	Shank Dia.	Brand	Item No.
Carbide, Straight-Flute					
#40	0.0980	5/8 in	3/32 IN	—	**21T225**
1/16 in	0.0625	3/8 in	1/16 IN	—	**21T209**
1/8 in	0.1250	5/8 in	1/8 IN	—	**21T239**
5/32 in	0.1625	7/8 in	5/32 IN	—	**21T585**
1/4 in	0.2505	1 in	1/4 IN	—	**21T737**
1/4 in	0.2620	1 1/8 in	1/4 IN	—	**21T753**
1/4 in	0.2500	1 in	1/4 IN	—	**21T291**
19/64 in	0.2969	1 1/8 in	17/64 IN	OSG	**34YK40**
19/64 in	0.2969	1 1/8 in	19/64 IN	—	**21T307**
5/16 in	0.3125	1 1/8 in	5/16 IN	—	**21T310**
5/16 in	0.3270	1 1/4 in	5/16 IN	—	**21T813**
5/16 in	0.3130	1 1/8 in	5/16 IN	—	**21T801**
5/16 in	0.3280	1 1/4 in	5/16 IN	—	**21T814**
21/64 in	0.3430	1 1/4 in	21/64 IN	—	**21T827**
11/32 in	0.3590	1 1/4 in	11/32 IN	—	**21T841**
3/8 in	0.3830	1 1/4 in	3/8 IN	—	**21T861**
3/8 in	0.3880	1 1/4 in	3/8 IN	—	**21T865**
3/8 in	0.3780	1 1/4 in	3/8 IN	—	**21T856**
3/8 in	0.3755	1 1/4 in	3/8 IN	—	**21T854**
3/8 in	0.3900	1 1/4 in	3/8 IN	—	**21T867**
3/8 in	0.3750	1 1/4 in	3/8 IN	—	**21T326**
25/64 in	0.3930	1 1/4 in	25/64 IN	—	**21T870**
25/64 in	0.3980	1 1/4 in	25/64 IN	—	**21T874**
25/64 in	0.4060	1 1/4 in	25/64 IN	—	**21T881**
13/32 in	0.4210	1 3/8 in	13/32 IN	—	**21T895**
7/16 in	0.4530	1 3/8 in	7/16 IN	—	**21T928**
29/64 in	0.4680	1 3/8 in	29/64 IN	—	**21T943**
15/32 in	0.4840	1 1/2 in	15/32 IN	—	**21T960**
1/2 in	0.5005	1 1/2 in	1/2 IN	—	**21T973**
1/2 in	0.5010	1 1/2 in	1/2 IN	—	**21T350**
1/2 in	0.5000	1 1/2 in	1/2 IN	—	**21T349**
5/8 in	0.6255	1 3/4 in	5/8 IN	—	**21T982**
5/8 in	0.6260	1 3/4 in	5/8 IN	—	**21T983**
4.93 mm	0.1940	48.00 mm	4.9 MM	OSG	**35DP84**
Y	0.4040	1 1/4 in	25/64 IN	—	**21T333**

Reamer Size	Dec. Equiv.	Flute Length	Shank Dia.	Brand	Item No.
Carbide-Tipped, Straight-Flute					
#8	0.1990	1 1/8 in	5/32 IN	Super Tool	**24L428**
7/16 in	0.4485	1 3/4 in	3 63/64 IN	Super Tool	**24L951**
1/2 in	0.5150	2 in	7 63/64 IN	Super Tool	**24M252**
35/64 in	0.5525	2 in	7 63/64 IN	Super Tool	**24M332**
5/8 in	0.6250	2 1/4 in	9 63/64 IN	Super Tool	**24M482**
12.00 mm	0.4724	51.00 mm	11.1 MM	Super Tool	**24M003**
32.00 mm	1.2598	76.00 mm	25.4 MM	Super Tool	**24M839**
Cobalt, Straight-Flute					
5/16 in	0.3125	1 1/2 in	5 63/64 IN	—	**20G453**
1/2 in	0.5000	2 in	1/2 IN	—	**20G492**
1 1/16 in	1.0625	2 3/4 in	1 1/16 IN	—	**20G511**
High-Speed Steel, Right-Hand Spiral Direction					
1 3/8 in	1.3750	3 1/4 in	MT4	Yankee	**20D524**
1 9/16 in	1.5625	3 1/2 in	1 15/64 IN	—	**20G871**
High-Speed Steel, Straight-Flute					
#10	0.1935	1 1/8 in	#13	Cleveland	**445N59**
#11	0.1910	1 1/8 in	#13	Cleveland	**445N58**
#9	0.1960	1 1/8 in	#12	Cleveland	**445N60**
1/4 in	0.2500	1 1/2 in	15/64 IN	Cleveland	**3L198**
1/4 in	0.2510	1 1/2 in	15/64 IN	Cleveland	**445N77**
1/4 in	0.2520	1 1/2 in	1/4 IN	Yankee	**20F274**
5/16 in	0.3125	1 1/2 in	17/64 IN	Cleveland	**3L326**
3/8 in	0.3750	1 3/4 in	3 63/64 IN	Yankee	**20D117**
3/8 in	0.3750	1 3/4 in	19/64 IN	Cleveland	**3L448**
3/8 in	0.3750	1 3/4 in	3 63/64 IN	—	**11V330**
3/8 in	0.3810	1 3/4 in	3/8 IN	Yankee	**20F507**
7/16 in	0.4375	1 3/4 in	23/64 IN	Cleveland	**3L539**
15/32 in	0.4700	2 in	15/32 IN	Yankee	**20F677**
1/2 in	0.5000	2 in	29/64 IN	Cleveland	**3L692**
1/2 in	0.5000	2 in	1/2 IN	—	**11V338**
19/32 in	0.5938	2 in	29/64 IN	Cleveland	**445P27**
5/8 in	0.6250	2 1/4 in	5 63/64 IN	—	**11V342**
3/4 in	0.7500	2 1/2 in	3 63/64 IN	—	**11V346**
3/4 in	0.7500	2 1/2 in	39/64 IN	Cleveland	**445P33**
55/64 in	0.8594	2 5/8 in	1/32 IN	—	**20G794**
15/16 in	0.9375	2 5/8 in	MT3	Yankee	**20D483**
1 in	1.0000	2 3/4 in	1 IN	—	**11V354**
1 1/32 in	1.0312	2 3/4 in	5/16 IN	—	**20G765**
1 1/4 in	1.2500	3 in	63/64 IN	Cleveland	**445P45**
1 5/8 in	1.6250	3 1/2 in	3/8 IN	—	**20G775**
8.00 mm	0.3150	1 1/2 in	5/16 IN	—	**13H728**
16.00 mm	0.6299	2 1/4 in	5/8 IN	—	**13H744**
20.00 mm	0.7874	2 1/2 in	25/32 IN	—	**13H752**
25.00 mm	0.9843	2 3/4 in	61/64 IN	—	**13H761**
30.00 mm	1.1811	2 7/8 in	31/32 IN	—	**13H762**

No. of Pieces	Sizes Incl.	Includes	Brand	Item No.
Chucking Reamer Sets				
High-Speed Steel, Right-Hand, Spiral Flute				
15	1/16 in, 1/2 in, 1/4 in, 1/8 in, 11/32 in, 13/32 in, 15/32 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/16 in, 7/32 in, 9/32 in	Metal Case	—	**11V297**
29	1/16 in, 1/2 in, 1/4 in, 1/8 in, 11/32 in, 11/64 in, 13/32 in, 13/64 in, 15/32 in, 15/64 in, 17/64 in, 19/64 in, 21/64 in, 23/64 in, 25/64 in, 27/64 in, 29/64 in, 3/16 in, 3/32 in, 3/8 in, 31/64 in, 5/16 in, 5/32 in, 5/64 in, 7/16 in, 7/32 in, 7/64 in, 9/32 in, 9/64 in	Wood Case	—	**11V302**
High-Speed Steel, Right-Hand, Straight Flute				
13	1/16 in, 1/4 in, 1/8 in, 11/64 in, 13/64 in, 15/64 in, 3/16 in, 3/32 in, 5/32 in, 5/64 in, 7/32 in, 7/64 in, 9/64 in	Metal Case	—	**11V296**
13	1.00 mm, 1.50 mm, 2.00 mm, 2.50 mm, 3.00 mm, 3.50 mm, 4.00 mm, 4.50 mm, 5.00 mm, 5.50 mm, 6.00 mm, 6.50 mm, 7.00 mm	Plastic Pouch	—	**11V306**
15	1/16 in, 1/2 in, 1/4 in, 1/8 in, 11/32 in, 13/32 in, 15/32 in, 3/16 in, 3/32 in, 3/8 in, 5/16 in, 5/32 in, 7/16 in, 7/32 in, 9/32 in	Plastic Pouch	—	**11V298**
25	1.00 mm, 1.50 mm, 10 mm, 10.50 mm, 11.00 mm, 11.50 mm, 12.00 mm, 12.50 mm, 13.00 mm, 2.00 mm, 2.50 mm, 3.00 mm, 3.50 mm, 4.00 mm, 4.50 mm, 5.00 mm, 5.50 mm, 6.00 mm, 6.50 mm, 7.00 mm, 7.50 mm. 8.00 mm, 8.50 mm, 9.00 mm, 9.50 mm	Wood Case	—	**11V307**
26	A-Z		—	**11V303**
29	1/16 in, 1/2 in, 1/4 in, 1/8 in, 11/32 in, 11/64 in, 13/32 in, 13/64 in, 15/32 in, 15/64 in, 17/64 in, 19/64 in, 21/64 in, 23/64 in, 25/64 in, 27/64 in, 29/64 in, 3/16 in, 3/32 in, 3/8 in, 31/64 in, 5/16 in, 5/32 in, 5/64 in, 7/16 in, 7/32 in, 7/64 in, 9/32 in, 9/64 in	Metal Case	Cleveland	**3K464**
29	1/16 in, 1/2 in, 1/4 in, 1/8 in, 11/32 in, 11/64 in, 13/32 in, 13/64 in, 15/32 in, 15/64 in, 17/64 in, 19/64 in, 21/64 in, 23/64 in, 25/64 in, 27/64 in, 29/64 in, 3/16 in, 3/32 in, 3/8 in, 31/64 in, 5/16 in, 5/32 in, 5/64 in, 7/16 in, 7/32 in, 7/64 in, 9/32 in, 9/64 in	Metal Case	—	**11V301**
60	#60 to #1	Metal Case	—	**11V304**
60	#60 to #1	Wood Case	—	**11V305**

Additional reamer sizes and types are available on Grainger.com®.

Taper Pin Reamers

- High-speed steel
- Bright (uncoated) finish

Taper pin reamers enlarge, finish, or shape holes for a precise fit when installing taper pins into the hole. They have a 1/4" taper to the foot and are made from high-speed steel, which offers good wear resistance in general purpose metalworking applications.

Helical—Reduce the size of the chips created during reaming and prevent chips from packing in the flutes. Operated with a machine such as a drill press, lathe, or screw machine.

Spiral—Pull chips out of the hole during reaming, which helps prevent damage to the reamers and workpiece. Suitable for reaming applications with blind holes and interrupted cuts. Operated with a machine such as a drill press, lathe, or screw machine.

Straight—Push chips forward into the hole and are the most commonly used style of reamer. Operated with a tap wrench, adjustable wrench, or vise.

For Pin Size	Small End Dia.	Large End Dia.	Shank Dia.	Flute Length	Overall Length	HELICAL FLUTE Brand	HELICAL FLUTE Item No.	STRAIGHT FLUTE Brand	STRAIGHT FLUTE Item No.	SPIRAL FLUTE Brand	SPIRAL FLUTE Item No.
Left Hand Spiral											
#0	1/8 in	5/32 in	11/64 in	1 11/16 in	2 15/16 in	—	—	—	—	Yankee	**20D595**
#1	9/64 in	11/64 in	3/16 in	1 11/16 in	2 15/16 in	Yankee	**20D575**	—	—	—	—
#2	5/32 in	3/16 in	13/64 in	1 15/16 in	3 15/16 in	Yankee	**20D576**	—	—	Yankee	**20D597**
#2/0	1/8 in	9/64 in	5/32 in	1 5/8 in	2 5/8 in	—	—	—	—	Yankee	**20D611**
#2/0	7/64 in	9/64 in	5/32 in	1 5/8 in	2 5/8 in	Yankee	**20D589**	—	—	—	—
#3	3/16 in	7/32 in	15/64 in	2 5/16 in	3 11/16 in	—	—	—	—	Yankee	**20D598**
#3	11/64 in	7/32 in	15/64 in	2 5/16 in	3 11/16 in	Yankee	**20D577**	—	—	—	—
#3/0	1/8 in	1/8 in	9/64 in	1 5/16 in	2 5/16 in	—	—	—	—	Yankee	**20D612**
#3/0	3/32 in	1/8 in	9/64 in	1 5/16 in	2 5/16 in	Yankee	**20D590**	—	—	—	—
#4	3/16 in	1/4 in	17/64 in	2 9/16 in	4 5/8 in	—	—	—	—	Yankee	**20D599**
#4	13/64 in	1/4 in	17/64 in	2 9/16 in	4 5/8 in	Yankee	**20D578**	—	—	—	—
#4/0	1/16 in	7/64 in	1/8 in	1 5/16 in	2 5/16 in	—	—	—	—	Yankee	**20D613**
#5	1/4 in	19/64 in	5/16 in	2 13/16 in	4 5/16 in	—	—	—	—	Yankee	**20D601**
#5	15/64 in	19/64 in	5/16 in	2 13/16 in	4 5/16 in	Yankee	**20D579**	—	—	—	—
#6	1/4 in	11/32 in	23/64 in	3 5/8 in	5 7/16 in	—	—	—	—	Yankee	**20D602**
#6	17/64 in	11/32 in	23/64 in	3 5/8 in	5 7/16 in	Yankee	**20D580**	—	—	—	—
#6/0	1/16 in	5/64 in	3/32 in	15/16 in	1 15/16 in	—	—	—	—	Yankee	**20D615**
#7	5/16 in	27/64 in	13/32 in	4 7/16 in	6 5/16 in	—	—	—	—	Yankee	**20D603**
#7	21/64 in	27/64 in	13/32 in	4 7/16 in	6 5/16 in	Yankee	**20D581**	—	—	—	—
#8	3/8 in	1/2 in	7/16 in	5 3/16 in	7 3/16 in	—	—	—	—	Yankee	**20D604**
#8	25/64 in	1/2 in	7/16 in	5 3/16 in	7 3/16 in	Yankee	**20D582**	—	—	—	—
#9	1/4 in	41/64 in	9/16 in	6 5/8 in	8 5/16 in	—	—	—	—	Yankee	**20D605**
#9	15/32 in	41/64 in	9/16 in	6 5/8 in	8 5/16 in	Yankee	**20D583**	—	—	—	—
#10	9/16 in	23/32 in	5/8 in	6 13/16 in	9 5/16 in	—	—	—	—	Yankee	**20D606**
#11	11/16 in	7/8 in	3/4 in	8 1/4 in	11 1/4 in	—	—	—	—	Yankee	**20D607**
#13	1 in	1 1/4 in	1 1/16 in	12 in	16 in	—	—	—	—	Yankee	**20D609**
Right Hand Spiral											
#0	1/8 in	5/32 in	11/64 in	1 11/16 in	2 15/16 in	—	—	Yankee	**20D553**	—	—
#1	1/8 in	11/64 in	3/16 in	1 11/16 in	2 15/16 in	—	—	—	—	Cleveland	**445N25**
#1	9/64 in	11/64 in	3/16 in	1 11/16 in	2 15/16 in	—	—	Yankee	**20D554**	—	—
#2	3/16 in	3/16 in	13/64 in	1 15/16 in	3 3/16 in	—	—	—	—	Cleveland	**445N26**
#2	5/32 in	3/16 in	13/64 in	1 15/16 in	3 3/16 in	Cleveland	**445M93**	—	—	—	—
#2	5/32 in	3/16 in	13/64 in	1 15/16 in	3 15/16 in	—	—	Yankee	**20D555**	—	—
#2/0	7/64 in	9/64 in	5/32 in	1 5/8 in	2 5/8 in	—	—	Yankee	**20D568**	—	—
#3	3/16 in	7/32 in	15/64 in	2 5/16 in	3 11/16 in	—	—	—	—	Cleveland	**445N27**
#3	3/32 in	1/8 in	9/64 in	1 5/16 in	2 5/16 in	—	—	Cleveland	**445N06**	—	—
#3	11/64 in	7/32 in	15/64 in	2 5/16 in	3 11/16 in	—	—	Cleveland	**445N11**	—	—
#3	11/64 in	7/32 in	15/64 in	2 5/16 in	3 11/16 in	Cleveland	**445M94**	Yankee	**20D556**	—	—
#3/0	3/32 in	1/8 in	9/64 in	1 5/16 in	2 5/16 in	—	—	Yankee	**20D569**	—	—
#4	3/16 in	1/4 in	17/64 in	2 9/16 in	4 1/16 in	—	—	—	—	Cleveland	**445N28**
#4	13/64 in	1/4 in	17/64 in	2 9/16 in	4 5/8 in	—	—	Yankee	**20D557**	—	—
#4	13/64 in	1/4 in	17/64 in	2 9/16 in	4 1/16 in	Cleveland	**445M95**	Cleveland	**445N12**	—	—
#4/0	5/64 in	7/64 in	1/8 in	1 5/16 in	2 5/16 in	Cleveland	**445M88**	—	—	—	—
#5	1/4 in	19/64 in	5/16 in	2 13/16 in	4 5/16 in	—	—	—	—	Cleveland	**445N29**
#5	15/64 in	19/64 in	5/16 in	2 13/16 in	4 5/16 in	Cleveland	**445M96**	Yankee	**20D558**	—	—
#5	15/64 in	19/64 in	5/16 in	2 13/16 in	4 5/16 in	—	—	Cleveland	**445N13**	—	—
#5/0	1/16 in	3/32 in	7/64 in	1 3/16 in	2 3/16 in	Cleveland	**445M87**	Yankee	**20D571**	—	—
#6	1/4 in	11/32 in	23/64 in	3 11/16 in	5 7/16 in	—	—	—	—	Cleveland	**445N30**
#6	17/64 in	11/32 in	23/64 in	3 11/16 in	5 7/16 in	Cleveland	**445M97**	Cleveland	**445N14**	—	—
#6	17/64 in	11/32 in	23/64 in	3 5/8 in	5 7/16 in	—	—	Yankee	**20D559**	—	—
#6/0	3/64 in	5/64 in	3/32 in	15/16 in	1 15/16 in	—	—	Yankee	**20D572**	—	—
#7	5/16 in	27/64 in	13/32 in	4 7/16 in	6 5/16 in	—	—	—	—	Cleveland	**445N31**
#7	21/64 in	27/64 in	13/32 in	4 7/16 in	6 5/16 in	—	—	Cleveland	**445N15**	—	—
#7	21/64 in	27/64 in	13/32 in	4 7/16 in	6 5/16 in	Cleveland	**445M98**	Yankee	**20D560**	—	—
#7/0	3/64 in	1/16 in	5/64 in	13/16 in	1 13/16 in	Cleveland	**445M85**	Yankee	**20D573**	—	—
#8	3/8 in	1/2 in	7/16 in	5 3/16 in	7 3/16 in	—	—	—	—	Cleveland	**445N32**
#8	25/64 in	1/2 in	7/16 in	5 3/16 in	7 3/16 in	—	—	Cleveland	**445N16**	—	—
#8	25/64 in	1/2 in	7/16 in	5 3/16 in	7 3/16 in	Cleveland	**445M99**	Yankee	**20D561**	—	—
#9	1/4 in	41/64 in	9/16 in	6 1/16 in	8 5/16 in	—	—	—	—	Cleveland	**445N33**
#9	15/32 in	41/64 in	9/16 in	6 1/16 in	8 5/16 in	Cleveland	**445N01**	Cleveland	**445N17**	—	—
#9	15/32 in	41/64 in	9/16 in	6 5/8 in	8 5/16 in	—	—	Yankee	**20D562**	—	—
#10	9/16 in	23/32 in	5/8 in	6 13/16 in	9 5/16 in	—	—	—	—	Cleveland	**445N34**
#10	37/64 in	23/32 in	5/8 in	6 13/16 in	9 5/16 in	Cleveland	**445N02**	Yankee	**20D563**	—	—
#10	37/64 in	23/32 in	5/8 in	6 13/16 in	9 5/16 in	—	—	Cleveland	**445N18**	—	—
#11	45/64 in	7/8 in	3/4 in	8 1/4 in	11 1/4 in	—	—	Yankee	**20D564**	—	—
#12	53/64 in	1 3/64 in	3/4 in	10 in	13 7/8 in	—	—	Yankee	**20D565**	—	—
2 in	9/16 in	47/64 in	5/8 in	3 1/2 in	6 in	—	—	Yankee	**20D537**	—	—
3 in	49/64 in	63/64 in	7/8 in	4 1/4 in	7 1/4 in	—	—	Yankee	**20D538**	—	—

High-Speed Steel Bridge Reamers

Bridge reamers install into compatible power tools to enlarge, debur, and finish holes in structural materials to a specific size. They have tapered flutes that ease their entry into rough-cut or misaligned holes. Designed for reaming difficult-to-machine materials such as iron and structural steel in applications where extreme precision is not required. Also commonly used to ream rivet holes in parts for automobile, bridges, rail cars, ships, and pressure vessels.

HEX NUT SHANK

Hex nut keeps the reamer securely in place in tools that have a square drive. Typically used to ensure the reamer won't come loose when it's used in a power tool that is being operated at a high location. **Hex nut shank with safety magnet** also have a magnet on the shank and provide a stronger hold than reamers that are secured with only a hex nut.

MORSE TAPER SHANK

Can be directly inserted into the spindle of a compatible tool or into an adapter such as a Morse taper sleeve or socket. This maximizes efficiency when installing and removing the reamers. These reamers provide accurate centering, and their self-locking taper shank is held in place by the friction between the shank and the toolholder.

STRAIGHT SHANK

Straight shank reamers with safety collars prevent the reamer from going too deep into the workpiece. **Straight shank reamers with three flats** are used in pneumatic or electric power tools.

Size - Decimal	Flute Length	Overall Length	Shank Dia.	Item No.
Hex Nut Shank, Black Oxide				
9/16 in - 0.5625	5 1/8 in	6 7/8 in	1 1/16 in	**13H855**
11/16 in - 0.6875	4 1/2 in	6 3/8 in	1 1/16 in	**13H856**
11/16 in - 0.6875	7 1/8 in	9 1/4 in	1 1/16 in	**13H857**
13/16 in - 0.8125	5 in	7 in	1 1/4 in	**13H858**
13/16 in - 0.8125	7 3/8 in	9 3/8 in	1 1/4 in	**13H859**
15/16 in - 0.9375	5 in	7 in	1 7/16 in	**13H860**
15/16 in - 0.9375	7 3/8 in	9 3/8 in	1 7/16 in	**13H861**
1 1/16 in - 1.0625	7 3/8 in	9 3/8 in	1 5/8 in	**13H863**
Hex Nut Shank with Safety Magnet, Black Oxide				
5/8 in - 0.625	4 1/2 in	6 in	1 1/16 in	**12G353**
11/16 in - 0.6875	4 1/2 in	6 3/8 in	1 1/16 in	**12G354**
3/4 in - 0.75	5 in	7 in	1 1/4 in	**12G355**
13/16 in - 0.8125	5 in	7 in	1 1/4 in	**12G356**
7/8 in - 0.875	5 in	7 in	1 7/16 in	**12G357**
15/16 in - 0.9375	5 in	7 in	1 7/16 in	**12G358**
1 in - 1.0000	5 in	7 in	1 7/16 in	**12G359**
1 1/16 in - 1.0625	5 in	7 in	1 5/8 in	**12G360**
1 1/8 in - 1.125	5 in	7 in	1 5/8 in	**12G361**
1 1/4 in - 1.25	5 in	7 in	1 13/16 in	**12G363**
1 1/2 in - 1.5	7 3/8 in	10 in	2 in	**12G367**
Morse Taper Shank, Black Oxide				
3/8 in - 0.375	2 3/4 in	5 11/16 in	MT1	**13H785**
1/2 in - 0.5	5 1/8 in	9 in	MT2	**13H788**
5/8 in - 0.625	4 1/2 in	8 1/16 in	MT2	**13H791**
13/16 in - 0.8125	5 in	9 1/2 in	MT3	**13H797**
1 1/16 in - 1.0625	5 in	9 1/2 in	MT3	**13H806**
1 1/8 in - 1.125	5 in	9 1/2 in	MT3	**13H808**
1 1/16 in - 1.0625	7 3/8 in	12 in	MT3	**13H807**
1 1/8 in - 1.125	7 3/8 in	12 in	MT3	**13H809**
1 3/8 in - 1.375	7 3/8 in	13 in	MT4	**13H812**
1 1/2 in - 1.5	7 3/8 in	13 in	MT4	**13H813**
Straight with Safety Collar, Bright (Uncoated)				
3/16 in - 0.1875	1 3/8 in	3 1/2 in	1/4 in	**13H830**
9/32 in - 0.2812	1 7/8 in	4 in	1/4 in	**13H833**
3/8 in - 0.375	2 7/8 in	5 in	3/8 in	**13H836**
7/16 in - 0.4375	3 1/8 in	5 1/4 in	7/16 in	**13H837**
1/2 in - 0.5	3 13/16 in	5 15/16 in	1/2 in	**13H838**
9/16 in - 0.5625	4 1/8 in	6 1/4 in	1/2 in	**13H839**
5/8 in - 0.625	4 7/16 in	6 9/16 in	1/2 in	**13H840**
11/16 in - 0.6875	4 7/8 in	7 in	1/2 in	**13H841**
3/4 in - 0.75	4 7/8 in	7 in	1/2 in	**13H842**
13/16 in - 0.8125	5 1/8 in	7 1/4 in	1/2 in	**13H843**
7/8 in - 0.875	5 1/8 in	7 1/4 in	1/2 in	**13H844**
15/16 in - 0.9375	5 1/8 in	7 1/4 in	1/2 in	**13H845**
1 in - 1.0000	5 1/8 in	7 1/4 in	1/2 in	**13H846**
1 1/16 in - 1.0625	5 1/8 in	7 1/4 in	1/2 in	**13H847**
1 1/8 in - 1.125	5 1/8 in	7 1/4 in	1/2 in	**13H848**
1 3/16 in - 1.1875	5 1/8 in	7 1/4 in	1/2 in	**13H849**
1 1/4 in - 1.25	5 3/8 in	7 1/2 in	1/2 in	**13H850**
1 5/16 in - 1.3125	5 3/8 in	7 1/2 in	1/2 in	**13H851**
1 3/8 in - 1.375	5 3/8 in	7 1/2 in	1/2 in	**13H852**
1 1/2 in - 1.5	5 3/8 in	7 1/2 in	1/2 in	**13H853**
Straight with Three Flats, Black Oxide				
3/8 in - 0.375	2 1/2 in	4 5/8 in	3/8 in	**13H816**
7/16 in - 0.4375	3 1/4 in	5 3/8 in	7/16 in	**13H817**
1/2 in - 0.5	3 3/4 in	5 7/8 in	1/2 in	**13H818**
9/16 in - 0.5625	3 3/4 in	5 7/8 in	1/2 in	**13H819**
5/8 in - 0.625	4 1/4 in	6 3/8 in	1/2 in	**13H820**
21/32 in - 0.6562	4 1/4 in	6 3/8 in	1/2 in	**13H821**
11/16 in - 0.6875	4 1/4 in	6 3/8 in	1/2 in	**13H822**
3/4 in - 0.75	4 1/2 in	6 7/8 in	1/2 in	**13H823**
13/16 in - 0.8125	4 1/2 in	6 7/8 in	1/2 in	**13H825**
7/8 in - 0.875	4 1/2 in	6 7/8 in	1/2 in	**13H826**
15/16 in - 0.9375	4 1/2 in	6 7/8 in	1/2 in	**13H827**
1 in - 1.0000	4 1/2 in	6 7/8 in	1/2 in	**13H828**
1 1/16 in - 1.0625	4 1/2 in	6 7/8 in	1/2 in	**13H829**

Spiral Flute
1U296

445M35

Drill/Screw Extractor Set 4DZL8

WESTWARD · Chicago-Latrobe · IRWIN HANSON · Alden · CLE-LINE

Screw and Drill Extractor Sets

High-carbon steel construction, heat-treated and tempered for long life.

Multi-Spline—Use to remove broken studs, bolts, socket screws, and fittings for high torque applications. Left-hand spiral design provides extra gripping power.

Spiral Flute—Tapered left-hand spiral flutes grip screws firmly.

Straight Flute—Provide maximum bite without binding or chewing.

Drill/Screw Extractor Sets—Include both screw extractors and drill bits.

For Removing Studs, Bolts, Screws	No. of Pieces	Includes	WESTWARD Item No.	CHICAGO-LATROBE Item No.	IRWIN HANSON Item No.
Multi-Spline					
⅛" to ⅞"	25	(25) Hanson Hex Head Multi-Spline Extractors: Mfr. No. 53201 through 53225, #12 to 1 1⁄16 in Bolt Diameter, ⅛ in to ⅞ in Drill Size	—	—	**5VUC6**
⅛" to 13⁄32"	10	(10) Hanson Hex Head Multi-Spline Extractors: Mfr. No. 53201 through 53208, #12 to ¾ in Bolt Diameter, ⅛ in to 13⁄32 in Drill Size	—	—	**5VUC5**
Spiral Flute					
#8 to ¾"	5	#1, #2, #3, #4, #5	**2RUP8**	—	—
	5	Extractors #1, #2, #3, #4, #5	—	**1U296**	—
#8 to 1"	6	#1, #2, #3, #4, #5, #6, Pouch	**2RUP9**	—	—
	6	Extractors #1, #2, #3, #4, #5, #6	—	**1U298**	—
3⁄32 to ⅝"	5	#1, #2, #3, #4, #5	**2RUR6**	—	—
Straight Flute					
¼ to ¾"	5	½ in to 12.5mm, ⅜ in to 9.5mm, ⅝ in to 16mm, 7⁄16 in to 11mm, 9⁄16 in to 14mm	—	—	**2ETL9**

For Removing Studs, Bolts, Screws	No. of Pieces	Includes	Drill Size (in.)	Brand	Item No.
Drill/Screw Extractor Sets					
⅛ to ½	35	(13) Multi-Spline Extractors Mfr. No. 53201 to 53213, (16) Left Hand Cobalt Drill Bits, (6) Spiral Screw Extractors Mfr. No. EX-1 to EX-6	N/A	Irwin Hanson	**5VUC4**
3⁄32 to ⅝"	10	#1, #2, #3, #4, #5	—	Westward	**2RUR2**
	48	(13) Bolt Extractors, (13) Multi-Spline Extractors, (16) Left-Hand Cobalt Drill Bits, (6) Spiral Flute Extractors	5⁄64, 7⁄64, ⅛, 5⁄32, 3⁄16, 7⁄32, ¼, 9⁄32, 19⁄64, 5⁄16, 11⁄32, ⅜, 13⁄32, 7⁄16, 15⁄32, ½	Irwin Hanson	**2ETL8**
Bolts #5 and #6 to ½", 3 to 12mm	7	(7) Extractors: #1, #2, #3, #4, 5⁄16 in, ⅜ in, ½ in	—	Alden	**4DZL8**
Bolts #5 and #6 to ¼", 3 to 6mm	4	(4) #1 through #4	—	Alden	**4DZL2**
Bolts ¼ to ½", 6 to 12mm	4	(4) Extractors: ¼ in, 5⁄16 in, ⅜ in, ½ in	—	Alden	**4DZK6**
Screws #1	2	#1 Extractor, 5⁄64 in Drill	5⁄64"	Cle-Line	**445M79**
Screws #1 to #6	12	(6) 150 Drills 5⁄64 in to 13⁄32 in, (6) Extractors #1 through #5 and #6	5⁄64", 7⁄64", 5⁄32", ¼", 17⁄64", 13⁄32"	Chicago-Latrobe	**445M36**
	12	(6) 550ASP Drills 5⁄64 in to 13⁄32 in, (6) Extractors #1 through #5 and #6	5⁄64", 7⁄64", 5⁄32", ¼", 17⁄64", 13⁄32"	Chicago-Latrobe	**445M39**
Screws #1 to #9	9	Extractors #1 through #5, #6, #7, #8, #9	5⁄64", 7⁄64", 5⁄32", ¼", 17⁄64", 13⁄32", 17⁄32", 13⁄16", 1 1⁄16"	Chicago-Latrobe	**445M35**
Screws #2	2	#2 Extractor, 7⁄64 in Drill	7⁄64"	Cle-Line	**445M80**
Screws #3	2	#3 Extractor, 5⁄32 in Drill	5⁄32"	Cle-Line	**445M81**
Screws #4	2	#4 Extractor, ¼ in Drill	¼"	Cle-Line	**445M82**
Screws #4 to #10, Bolts #10 to ¼", 5 to 6mm	2	(2) Extractors: #1 and #2	—	Alden	**4DZK1**
Screws #4 to #24, Bolts #10 to ⅜", 5 to 10mm	4	(4) #1 through #4	—	Alden	**4DZJ9**
Screws #4 to #6	3	Extractors #4, #5, #6	¼", 17⁄64", 13⁄32"	Chicago-Latrobe	**445M33**
Screws #5	2	#5 Extractor, 17⁄64 in Drill	17⁄64"	Cle-Line	**445M83**
Screws #5, #5-1/4, #6-3/8, #7-1/2	4	Extractors #5 to ¼ in, #6 to ⅜ in, #7 to ½ in	17⁄64", 23⁄64", 31⁄64", 39⁄64"	Chicago-Latrobe	**445M37**
Screws #5, #5-1/4, #6-3/8, #7-1/2, #8, #9	6	Extractors #5, #5 to ¼ in, #6 to ⅜ in, #7 to ½ in, #8, #9	17⁄64", 23⁄64", 31⁄64", 39⁄64", 13⁄16", 1 1⁄16"	Chicago-Latrobe	**445M38**
Screws #6	2	#6 Extractor, 13⁄32 in Drill	13⁄32"	Cle-Line	**445M84**
Screws #6 to #14 and Bolts #5 and #6 to ½", 3 to 12mm	10	(7) Extractors: Sizes #1, #2, #3, #4, 5⁄16 in, ⅜ in, ½ in, (3) X-Out Sizes: #1, #2, #3	—	Alden	**4DZL7**
Screws #6 to #9	4	Extractors #6, #7, #8, #9	13⁄32", 17⁄32", 13⁄16", 1 1⁄16"	Chicago-Latrobe	**445M34**

4DZK5

CLEVELAND · Chicago-Latrobe · WESTWARD · Alden

Screw Extractor and Hard Steel Drill Bits

For removing broken screws, bolts, and threaded parts. Extractor is inserted into predrilled hole and broken screw is backed out with a wrench.

For Removing Studs, Bolts, Screws	Drill Size (in.)	Type	Mfr. Model	Brand	Item No.
Screw Extractors					
#12 to 5⁄16	7⁄64	Ezy-Out	C53652	Cleveland	**445U53**
	7⁄64	Spiral Flute	65003	Chicago-Latrobe	**1U218**
#8 to ¼	5⁄64	Ezy-Out	C53651	Cleveland	**445U52**
	5⁄64	Spiral Flute	65001	Chicago-Latrobe	**1U216**
⅛ to ¼	5⁄64	Spiral Flute	2RUL8	Westward	**2RUL8**
¼ to 5⁄16	5⁄32	Spiral Flute	2RUL9	Westward	**2RUL9**
5⁄16 to 7⁄16	5⁄32	Ezy-Out	C53653	Cleveland	**445U54**
	5⁄32	Spiral Flute	2RUP1	Westward	**2RUP1**
	5⁄32	Spiral Flute	65005	Chicago-Latrobe	**1U220**
7⁄16 to 9⁄16	¼	—	65007	Chicago-Latrobe	**1U222**
	¼	Ezy-Out	C53654	Cleveland	**445U55**
	¼	Spiral Flute	2RUP2	Westward	**2RUP2**
9⁄16 to ¾	9⁄32	Ezy-Out	C53655	Cleveland	**445U56**
	17⁄64	Spiral Flute	2RUP3	Westward	**2RUP3**
	17⁄64	Spiral Flute	65009	Chicago-Latrobe	**1U224**
11⁄16 to 15⁄16	23⁄64	Conventional Spiral	65011	Chicago-Latrobe	**445M28**
¾ to 1	13⁄32	Ezy-Out	C53656	Cleveland	**445U57**
	13⁄32	Spiral Flute	2RUP4	Westward	**2RUP4**
	13⁄32	Spiral Flute	65013	Chicago-Latrobe	**1U226**
15⁄16 to 1⅛	31⁄64	Conventional Spiral	65015	Chicago-Latrobe	**445M29**
1 to 1⅜	17⁄32	Ezy-Out	C53657	Cleveland	**445U58**
1 to 1 ⅜	17⁄32	Spiral Flute	2RUP5	Westward	**2RUP5**
	17⁄32	Spiral Flute	65017	Chicago-Latrobe	**1U228**
1⅛ to 1½	39⁄64	—	65019	Chicago-Latrobe	**4EK89**
	39⁄64	Spiral Flute	2RUR1	Westward	**2RUR1**
1⅜ to 1¾	13⁄16	Ezy-Out	C53658	Cleveland	**445U59**
	13⁄16	Spiral Flute	2RUP6	Westward	**2RUP6**
	13⁄16	Spiral Flute	65021	Chicago-Latrobe	**1U230**
1¾ to 2⅛	1 1⁄16	Ezy-Out	C53659	Cleveland	**445U60**
	1 1⁄16	Spiral Flute	2RUP7	Westward	**2RUP7**
1¾ to 2	1 1⁄16	Spiral Flute	65023	Chicago-Latrobe	**1U234**
2⅛ to 2½	1 5⁄16	Conventional Spiral	65025	Chicago-Latrobe	**445M30**
	1 5⁄16	Ezy-Out	C53660	Cleveland	**445U61**
2½ to 3	1 9⁄16	Conventional Spiral	65027	Chicago-Latrobe	**445M31**
	1 9⁄16	Ezy-Out	C53661	Cleveland	**445U62**
3 to 3½	1 15⁄16	Conventional Spiral	65029	Chicago-Latrobe	**445M32**
	1 15⁄16	Ezy-Out	C53662	Cleveland	**445U63**
Screw Extractor Drill Bits					
#10, 5mm	#3	Double-Ended Bit	1907P	Alden	**4DZL4**
#5, #6, 3mm	#1	Double-Ended Bit	1257P	Alden	**4DZL6**
#8, 4mm	#2	Double-Ended Bit	1647P	Alden	**4DZL5**
¼", 6mm	#4	Double-Ended Bit	2367P	Alden	**4DZL3**
	1/4"	Power Extractor Bit	2507P	Alden	**4DZL1**
5⁄16", 8mm	5/16"	Power Extractor Bit	3127P	Alden	**4DZK9**
⅜", 10mm	3/8"	Power Extractor Bit	3757P	Alden	**4DZK8**
½", 12mm	1/2"	Power Extractor Bit	5007P	Alden	**4DZK7**
Screws #11 to #14, Bolts 5⁄16", 8mm	#3	Double-Ended Bit	8403P	Alden	**4DZK4**
Screws #16 to #24, Bolts ⅜", 10mm	#4	Double-Ended Bit	8404P	Alden	**4DZK5**
Screws #4 to #7, Bolts #10, 5mm	#1	Double-Ended Bit	8401P	Alden	**4DZK2**
Screws #8 to #10, Bolts ¼", 6mm	#2	Double-Ended Bit	8402P	Alden	**4DZK3**

Tap Information and Tap/Drill Size Reference Charts

TAP TYPES

Chip-Free Thread-Forming Taps

Press against the sides of a hole to form threads, and don't create chips. Produce cleaner, stronger, and more accurate threads than taps that cut threads.

Pipe and Conduit Thread Taps

Used for internal threading of pipes, pipe fittings, and holes.

Spiral-Flute Taps

Spiral flutes pull chips out and away from the hole to prevent chips from packing in the hole.

Spiral-Point Taps

An angular point pushes chips in front of the tap, which helps keep the tap's flutes from clogging.

Straight-Flute Taps

Chips move into the taps' straight flutes but are not evacuated during threading.

MATERIALS

Carbide

Provides maximum hardness and excellent resistance to heat and wear. Suitable for tapping hard materials at high speeds and requires a rigid setup such as a CNC machine.

Carbon Steel

Suitable for thread repair tasks that do not require high accuracy.

Cobalt

Harder and more wear-resistant than high-speed steel. Suitable for high-speed tapping in hard materials.

High-Speed Steel

Offers more resistance to abrasion and heat than carbon steel and provides good wear resistance in a range of materials.

Powdered Metal

Tougher and less likely to break than cobalt and high-speed steel. Finishes and Coatings

Black Oxide

Retains lubricants to improve wear resistance and chip flow.

Bright (uncoated)

Provides a smooth, polished surface.

CrC/C

Multilayer coating with an inner layer of TiN and an outer layer of CrC/C. Protects against wear when tapping ferrous and nonferrous metals.

Diamond

Offers excellent hardness and protects against wear when threading abrasive materials.

Hardlube

Features an inner layer of TiAlN that withstands high temperatures and protects against wear and an outer layer of WC/C that helps prevent chips from sticking to the tool.

TiCN

Harder and more wear-resistant than TiN coating.

TiN

Resists wear and allows for faster speeds than bright finish.

CHAMFERS

Bottoming

1 to 2 chamfered threads in front of the tap. Used for threading near the bottom of blind holes.

Modified Bottoming

2.5 to 3 chamfered threads in front of the tap. Used primarily in blind holes.

Semi-Bottoming

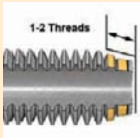
2 to 2.5 chamfered threads in front of the tap. Used primarily in blind holes.

Plug

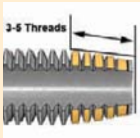
3 to 5 chamfered threads at the front of the tap. Used in through holes and blind holes with adequate space for chips to accumulate in front of the tap.

Taper

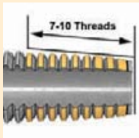
7 to 10 chamfered threads at the front of the tap. Used in through holes.



Bottoming Thread Chamfer



Plug Chamfer Thread



Taper Chamfer Type

PITCH DIAMETER LIMITS

A letter followed by a number which shows the tolerance of pitch diameter over the basic pitch diameter.

PITCH DIAMETER LIMITS

H1	+0.0005"
H2	+0.0005" to +0.0010"
H3	+0.0010" to +0.0015"
H4	+0.0015" to +0.0020"
H5	+0.0020" to +0.0025"
H6	+0.0025" to +0.0030"
H7	+0.0030" to +0.0035"

HAND AND SPIRAL POINT TAPS - INCH
Drill Size Representation for Approx. 70-75% Thead Height

Tap Size & Pitch	Pitch Series	Drill Size	Decimal Equivalent
Machine Screw Threads			
0-80	NF	3/64	0.0469
1-64	NC	53	0.0595
1-72	NF	53	0.0595
2-56	NC	50	0.0700
2-64	NF	50	0.0700
3-48	NC	47	0.0785
3-56	NF	46	0.0810
4-40	NC-UNC	43	0.0890
4-48	NF	42	0.0935
5-40	NC	38	0.1015
5-44	NF	37	0.1040
6-32	NC-UNC	36	0.1065
6-40	NF	33	0.1130
8-32	NC-UNC	29	0.1360
8-36	NF	29	0.1360
10-24	NC-UNC	26	0.1470
10-32	NF-UNF	21	0.1590
12-24	NC	16	0.1770
12-28	NF-UNF	15	0.180

Tap Size & Pitch	Drill Size	Decimal Equivalent
National & Unified Coarse Threads		
1/4-20	7	0.2010
5/16-18	F	0.2570
3/8-16	5/16	0.3125
7/16-14	U	0.3680
1/2-13	27/64	0.4219
9/16-12	31/64	0.4844
5/8-11	17/32	0.5312
3/4-10	21/32	0.6562
7/8-9	49/64	0.7656
1-8	7/8	0.8750
1 1/8-7	63/64	0.9844
1 1/4-7	1 7/64	1.1094
1 3/8-6	1 7/32	1.2188
1 1/2-6	1 11/32	1.3438
1 3/4-5	1 9/16	1.5630
2- 4 1/2	1 25/32	1.7810
National & Unified Fine Threads		
1/4-28	3	0.2130
5/16-24	I	0.2720
3/8-24	Q	0.3320
7/16-20	25/64	0.3906
1/2-20	29/64	0.4531
9/16-18	33/64	0.5156
5/8-18	37/64	0.5781
3/4-16	11/16	0.6875
7/8-14	13/16	0.8125
1-12	59/64	0.9219
1 1/8-12	1 3/64	1.0469
1 1/4-12	1 11/64	1.1719
1 3/8-12	1 19/64	1.2969
1 1/2-12	1 27/64	1.4219
National Special		
1-14	15/16	0.9380

HAND AND SPIRAL POINT TAPS - METRIC
Drill Size Representation for Approx. 70-75% Thead Height

Tap Size & Pitch	Drill Size	Decimal Equivalent
M1.6 x 0.35	1.25	0.0492
M1.8 x 0.35	1.45	0.0571
M2 x 0.40	1.6	0.0630
M2.2 x 0.45	1.75	0.0689
M2.5 x 0.45	2.05	0.0807
M3 x 0.50	2.5	0.0984
M3.5 x 0.60	2.9	0.1142
M4 x 0.70	3.3	0.1299
M4.5 x 0.75	3.7	0.1457
M5 x 0.80	4.2	0.1654
M6 x 1.00	5	0.1969
M7 x 1.00	6	0.2362
M8 x 1.25	6.7	0.2638
M8 x 1.00	7	0.2756
M10 x 1.50	8.5	0.3346
M10 x 1.25	8.7	0.3425
M12 x 1.75	10.2	0.4016
M12 x 1.25	10.8	0.4252
M14 x 2.00	12	0.4724
M16 x 2.00	14	0.5512
M16 x 1.50	14.5	0.5709
M18 x 2.50	15.5	0.6102
M18 x 1.50	16.5	0.6496
M20 x 2.50	17.5	0.6890
M20 x 1.50	18.5	0.7283
M22 x 2.50	19.5	0.7677
M22 x 1.50	20.5	0.8071
M24 x 3.00	21	0.8268
M24 x 2.00	22	0.8661
M27 x 3.00	24	0.9449
M27 x 2.00	25	0.9843
M30 x 3.50	26.5	1.0433
M30 x 2.00	28	1.1024
M33 x 3.50	29.5	1.1614
M33 x 2.00	31	1.2205
M36 x 4.00	32	1.2598
M36 x 3.00	33	1.2992
M39 x 4.00	35	1.3780
M39 x 3.00	36	1.4173

PIPE TAPS

Nominal Size	NPT & NPTF Without Reamer	NPT & NPTF With Reamer	NPSM	NPSC	NPSF
1/16-27	C (0.242)	A (0.234)	—	1/4	D (0.246)
1/8-27	Q (0.332)	21/64	T (0.358)	Q (0.332)	R (0.339)
1/4-18	7/16	27/64	15/32	7/16	7/16
3/8-18	9/16	9/16	0.630 (special)	37/64	37/64
1/2-14	45/64	11/16	19.0mm	23/32	0.705 (special)
3/4-14	29/32	57/64	61/64	59/64	59/64
1 - 11 1/2	1 9/64	1 1/8	1 13/64	1 5/32	1 5/32
1 1/4 - 11 1/2	1 31/64	1 15/32	1 35/64	1 1/2	—
1 1/2 - 11 1/2	1 23/32	1 45/64	1 25/32	1 47/64	—
2 - 11 1/2	2 3/16	2 11/64	2 1/4	2 1/4	—

Additional tap sizes, materials, and coatings are available on Grainger.com®.

High-Speed Steel Drill Bit & Carbon Steel Tap Set
5PXJ0

Drill Bit and Tap Sets

Sets include multiple drill bits and taps. The drill bits are used to make holes, and the taps are used to create internal threads in the holes.

No. of Pieces	Smallest Thread Size	Largest Thread Size	Smallest Drill Bit Dia.	Largest Drill Bit Dia.	Tap Sizes Included	Brand	Item No.
High-Speed Steel Drill Bit & Carbon Steel Tap Sets							
13	#4	¼"	#43	#7	#10-24, #10-32, #4-40, #6-32, #8-32, ¼"-20	Westward	**5PXJ0**
13	#4-40	¼"-20	#43	#16	#10-24, #10-32, #4-40, #6-32, #8-32, ¼"-20	Irwin Hanson	**19T156**
High-Speed Steel Drill Bit & High-Speed Steel Tap Sets							
2	¼"-20	¼-20"	#7	#7	¼"-20	Cle-Line	**445M78** *
18	#6	½"	#36	27/64 in	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Westward	**5PXJ3**
18	#6-32	½"-13	#36	27/64 in	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Chicago-Latrobe	**4ALK1**
18	#6-32	½"-13	#36	27/64 in	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Chicago-Latrobe	**1N642** *
18	M2.5	M12	2.05mm	10.20 mm	M10x1.5, M12x1.75, M2.5x0.45, M3.5x0.6, M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25	Westward	**5PXJ4**
20	#4-40	½"-13	#44	27/64 in	#10-24, #4-40, #5-40, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Chicago-Latrobe	**6ZKF9**
36	#6	½"	#36	29/64 in	#10-24, #10-32, #12-24, #12-28, #6-32, #6-40, #8-32, #8-36, ½"-13, ½"-20, ¼"-20, ¼"-28, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, 7/16"-14, 7/16"-20	Westward	**5PXJ5**
36	#6-32	½"-20	#36	39/64 in	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Chicago-Latrobe	**1P273**

***Spiral Point*

Die Sets

- Right-hand thread direction

Die sets contain multiple carbon steel hex dies for restoring damaged or rusted external threads on metal and plastic parts in general purpose threading tasks. The dies are turned with a die wrench or a standard wrench, and each die can repair one size of thread.

Carbon Steel Hex Die Sets
UNC
50CA70

No. of Dies in Set	Smallest Thread Size	Largest Thread Size	Thread Sizes Included	Brand	Item No.
Carbon Steel Hex Die Sets					
Metric					
7	M6x1.00	M20x2.5	M10x1.5, M12x1.75, M14x2, M16x2, M20x2.5, M6x1, M8x1.25	Greenfield Threading	**53PT23**
7	M6x1.00	M20x2.50	M10x1.5, M12x1.75, M14x2, M16x2, M20x2.5, M6x1, M8x1.25	Cle-Line	**50CA77**
NC, NF					
16	¼"-20	1"-14	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Westward	**10M991**
UNC					
8	¼"-28	9/16"-18	½"-20, ¼"-28, ¾"-16, ⅜"-24, 5/16"-24, ⅝"-18, 7/16"-20, 9/16"-18	Cle-Line	**50CA71**
8	¼"-20	⅝ in	½"-13, ¼"-20, ¾"-10, ⅜"-16, 5/16"-18, ⅝"-11, 7/16"-14, 9/16"-12	Cle-Line	**50CA70**
10	¼"-20	¾"-10	½"-13, ¼"-20, ¾"-10, ⅜"-16, 5/16"-18, ⅝"-11, 7/16"-14, 9/16"-12	Greenfield Threading	**53PT25**
10	¼"-28	¾"-16	½"-20, ¼"-28, ¾"-16, ⅜"-24, 5/16"-24, ⅝"-18, 7/16"-20, 9/16"-18	Greenfield Threading	**53PT22**
10	¼"-20	1"-8	½"-13, ½"-20, ¼"-20, ¼"-28, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, 7/16"-14, 7/16"-20	Greenfield Threading	**53PT24**
10	¼"-20	1"-8	1"-8, ½"-13, ¼"-20, ¾"-10, ⅜"-16, 5/16"-18, ⅝"-11, 7/16"-14, ⅞"-9, 9/16"-12	Cle-Line	**50CA75**
16	¼"-20	¾"-16	½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, 9/16"-12, 9/16"-18	Westward	**10M990**
20	¼"-20	1"-8	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Greenfield Threading	**53PT21**
UNC, UNF					
10	¼"-20	½"-20	½"-13, ½"-20, ¼"-20, ¼"-28, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, 7/16"-14, 7/16"-20	Cle-Line	**50AT18**
20	¼"-20	1"-8	1"-14, 1"-8, ½"-13, ½"-20, ¼"-20, ¼"-28, ¾"-10, ¾"-16, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, ⅝"-11, ⅝"-18, 7/16"-14, 7/16"-20, ⅞"-14, ⅞"-9, 9/16"-12, 9/16"-18	Cleveland	**20X693**

High-Speed Steel Drill, Carbon Steel Tap & Carbon Steel Die Set
2ETL5

Drill Bit, Tap and Die Sets

Drill bit, tap, and die sets include multiple drill bits, taps, and dies. The drill bits make holes, the taps create or repair internal threads in holes, and the dies create or repair external threads on parts that will be screwed into tapped holes.

No. of Pieces	Number Of Drills	Number Of Taps	No. of Dies in Set	Drill Bit Dia. Included	Die Thread Sizes Included	Brand	Item No.
High-Speed Steel Drill, Carbon Steel Tap & Carbon Steel Die Sets							
Straight Flute Tap Type & Hex Die Shape							
117	36	34	34	#0, #16, #19, #20, #21, #25, #29, #3, #30, #36, #39, #43, #7, #9, ¼ in, 13/32 in, 19/64 in, 21/64 in, 25/64 in, 27/64 in, 29/64 in, ⅜ in, 5/16 in, 5/32 in, 5/64 in, 7/64 in, B, F, H, J, I, Q, R, S, U, Z	#10-24 NC, #10-32 NF, #12-24 NC, #4-40 NC, #6- 32 NC, #8-32 NC, ½"-13 NC, ½"-20 NF, ¼"-20 NC, ¼"-28 NF, ⅛"-27 NPT, ⅛"-28 BSP, ⅜"-16 NC, ⅜"-24 NF, 5/16"-18 NC, 5/16"-24 NF, 7/16"-14 NC, 7/16"-24 NF, M10x1.25, M10x1.50, M11x1.50, M12x1.50, M12x1.75, M3x0.50, M4x0.70, M4x0.75, M5x0.80, M5x0.90, M6x1.00, M7x1.00, M8x1.00, M8x1.25, M9x1.00, M9x1.25	Irwin Hanson	**2ETL5**
High-Speed Steel Drill, High-Speed Steel Tap & Carbon Steel Die Sets							
Straight Flute Tap Type & Round Die Shape							
15	5	5	5	10.2 mm, 5 mm, 6.7 mm, 6 mm, 8.5 mm	M10x1.50, M12x1.75, M6x1.00, M7x1.00, M8x1.25	Greenfield Threading	**445M51**

407C44

Multiple-Size Tap Sets

Include multiple taps in a range of thread sizes for creating internal threads in holes of various sizes

No. of Pieces	Thread Standard	Thread Sizes Included	Thread Limit	Brand	Item No.
4	UNC	#10-24, #12-24, #6-32, #8-32	H2	Speedtaps	**40LR30**
4	UNC	M10x1.50, M12x1.75, M6x1.00, M8x1.25	H2	Speedtaps	**40LR24**
10	UNC, UNF	½"-13, ½"-20, ¼"-20, ¼"-28, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, 7/16"-14, 7/16"-20	H3	Greenfield Threading	**407C44**

For more information on taps, see page 2261.

GREENFIELD THREADING   WIDIA GTD   CLE-LINE.   CLEVELAND   WESTWARD

Three-Piece Tap Kits

Each kit contains three straight-flute taps with the same thread size, thread length, and overall length but different chamfer types. One tap has a taper chamfer, one tap has a bottoming chamfer, and one tap has a plug chamfer.

407D08

Tap Thread Size	Thread Length	Overall Length	Pitch Diameter Limit	Brand	Item No.
Left-Hand, Bright Finish, High-Speed Steel					
4 Flute, UNC					
#8-32	¾ in	2 ⅛ in	H3	Greenfield Threading	**407D08**
¼"-20	1	2 ½ in	H3	Widia GTD	**3FMK1**
5/16"-18	1 ⅛ in	2 ¾ in	H3	Widia GTD	**3FMK6**
⅜"-16	1 ¼ in	3 in	H3	Widia GTD	**3FML5**
½"-13	1 21/32 in	3 ⅜ in	H3	Widia GTD	**3FMP3**
4 Flute, UNF					
#10-32	⅞ in	2 ⅜ in	H3	Greenfield Threading	**407D09**
¼"-28	⅝ in	2 ½ in	H3	Greenfield Threading	**53PV26**
5/16"-24	1 ⅛ in	2 ¾ in	H3	Widia GTD	**3FML1**
⅜"-24	1 ¼ in	3 in	H3	Widia GTD	**3FML9**
½"-20	1 21/32 in	3 ⅜ in	H3	Widia GTD	**3FMP7**
Right Hand, Bright Finish, High-Speed Steel					
2 Flute, UNC					
#1-64	⅜ in	1 11/16 in	H1	Widia GTD	**53ML40**
#2-56	7/16 in	1 ⅝ in	H2	Cle-Line	**407D42**
2 Flute, UNF					
#0-80	5/16 in	1 ⅝ in	H1	Widia GTD	**53ML46**
#1-72	⅜ in	1 11/16 in	H1	Widia GTD	**53ML35**
3 Flute, Metric					
M3-0.50	7.87 mm	49.28 mm	D3	Cleveland	**435L52**
3 Flute, Metric Coarse					
M2-0.40	7/16 in	1 ¾ in	D3	Widia GTD	**1C938**
M3-0.50	⅝ in	1 15/16 in	D3	Widia GTD	**1C948**
3 Flute, Metric Fine					
M2.5-0.45	½ in	1 13/16 in	D3	Greenfield Threading	**53PV94**
M2-0.40	7/16 in	1 ¾ in	D3	Greenfield Threading	**53PW26**
M3.5-0.60	⅜ in	2 in	D4	Greenfield Threading	**53PV93**
M3-0.50	5/16 in	1 15/16 in	D3	Greenfield Threading	**53PW25**
3 Flute, UNC					
#2-56	7/16 in	1 ¾ in	H2	Cleveland	**435L23**
#2-56	7/16 in	1 ¾ in	H2	Greenfield Threading	**15J750**
#2-56	7/16 in	1 ¾ in	H2	Widia GTD	**4AHL1**
#3-48	½ in	1 13/64 in	H2	Cle-Line	**407D43**
#3-48	½ in	1 13/16 in	H2	Cleveland	**435L30**
#3-48	½ in	1 13/16 in	H2	Greenfield Threading	**15J751**
#3-48	½ in	1 13/16 in	H2	Widia GTD	**4AHL2**
#4-40	19/64 in	1 ⅞ in	H2	Cleveland	**435L44**
#4-40	9/16 in	1 ⅞ in	—	Widia GTD	**4GP74**
#4-40	9/16 in	1 ⅞ in	H2	Greenfield Threading	**15J753**
#4-40	9/16 in	1 ⅞ in	H2	Widia GTD	**4AHL6**
#4-40	⅝ in	1 ⅞ in	H2	Westward	**5PXJ8**
#5-40	19/64 in	1 15/16 in	H2	Cleveland	**435L58**
#5-40	⅝ in	1 15/16 in	—	Widia GTD	**4GP79**
#5-40	⅝ in	1 15/16 in	H2	Greenfield Threading	**15J755**
#5-40	⅝ in	1 15/16 in	H2	Widia GTD	**4AHM0**
#6-32	⅜ in	2 in	H3	Cleveland	**435L77**
#6-32	11/16 in	2 in	H1	Widia GTD	**53MN85**
#6-32	11/16 in	2 in	H2	Cle-Line	**407D47**
#6-32	11/16 in	2 in	H2	Greenfield Threading	**15J757**
#6-32	11/16 in	2 in	H3	Westward	**5PXJ9**
#6-32	11/16 in	2 in	H3	Widia GTD	**4AHM4**
3 Flute, UNF					
#2-64	7/16 in	1 ¾ in	H2	Widia GTD	**53ML26**
#3-56	½ in	1 13/64 in	H2	Cle-Line	**407D44**
#3-56	½ in	1 13/16 in	H2	Cleveland	**435L34**
#3-56	½ in	1 13/16 in	H2	Greenfield Threading	**15J752**
#3-56	½ in	1 13/16 in	H2	Widia GTD	**53ML20**
#4-48	19/64 in	1 ⅞ in	H2	Cleveland	**435L48**
#4-48	9/16 in	1 ⅞ in	H2	Cle-Line	**407D45**
#4-48	9/16 in	1 ⅞ in	H2	Greenfield Threading	**15J754**
#4-48	9/16 in	1 ⅞ in	H2	Widia GTD	**53ML14**
#5-44	19/64 in	1 15/16 in	H2	Cleveland	**435L62**
#5-44	⅝ in	1 15/16 in	H2	Cle-Line	**407D46**
#5-44	⅝ in	1 15/16 in	H2	Greenfield Threading	**15J756**
#5-44	⅝ in	1 15/16 in	H2	Widia GTD	**53ML10**
#6-40	11/16 in	2 in	H2	Cle-Line	**407D48**
#6-40	11/16 in	2 in	H2	Greenfield Threading	**15J759**
#6-40	11/16 in	2 in	H2	Widia GTD	**53ML03**
4 Flute, Metric					
M10-1.50	31.75 mm	74.61 mm	D6	Cleveland	**435N40**
M12-1.75	42.07 mm	85.72 mm	D6	Cleveland	**435N59**
M14-2.00	42.07 mm	91.28 mm	D7	Cleveland	**435N81**
M16-2.00	46.04 mm	96.84 mm	D7	Cleveland	**435P07**
M20-2.50	50.80 mm	13.51 mm	D7	Cleveland	**435P34**
M4-0.70	19.05 mm	54.10 mm	D4	Cleveland	**435L85**
M5-0.80	12.70 mm	60.45 mm	D4	Cleveland	**435M42**
M6-1.00	16.00 mm	63.50 mm	D5	Cleveland	**435M54**
M8-1.25	17.53 mm	69.09 mm	D5	Cleveland	**435N14**
4 Flute, Metric Coarse					
M10-1.50	¾ in	2 15/16 in	D6	Greenfield Threading	**53PW01**
M10-1.50	1 ¼ in	2 15/16 in	D6	Westward	**5TWA6**
M12-1.75	15/16 in	3 ⅜ in	D6	Greenfield Threading	**53PV99**
M12-1.75	1 21/32 in	3 ⅜ in	D6	Westward	**5TWA7**
M14-2.00	1	3 19/32 in	D7	Greenfield Threading	**53PV98**
M16-2.00	1	3 13/16 in	D7	Greenfield Threading	**53PV97**
M16-2.00	1 13/16 in	3 13/16 in	D7	Westward	**5TWA9**
M18-2.50	1 5/64 in	4 1/32 in	D6	Greenfield Threading	**53PV96**
M20-2.50	1 ¼ in	4 15/32 in	D7	Greenfield Threading	**53PV95**
M20-2.50	2 in	4 15/32 in	D7	Westward	**5TWC1**
M24-3.00	2 7/32 in	4 29/32 in	D8	Westward	**5TWC2**
M4-0.70	¾ in	2 ⅛ in	D4	Westward	**5TWA1**
M4-0.70	¾ in	2 ⅛ in	D4	Widia GTD	**1C956**
M5-0.80	⅞ in	2 ⅜ in	D4	Westward	**5TWA2**
M5-0.80	⅞ in	2 ⅜ in	D4	Widia GTD	**1C970**
M6-1.00	1	2 ½ in	D5	Westward	**5TWA3**
M6-1.00	1	2 ½ in	D5	Widia GTD	**1C978**
M7-1.00	1 ⅛ in	2 23/32 in	D5	Widia GTD	**1C998**
M8-1.25	1 ⅛ in	2 23/32 in	D5	Westward	**5TWA5**
4 Flute, Metric Fine					
M4.5-0.75	½ in	2 ⅜ in	D4	Greenfield Threading	**53PV92**
M4-0.70	⅜ in	2 ⅛ in	D4	Greenfield Threading	**53PW24**
M5-0.80	½ in	2 ⅜ in	D4	Greenfield Threading	**53PW23**
M6-1.00	⅝ in	2 ½ in	D5	Greenfield Threading	**53PW22**
M8-1.25	11/16 in	2 23/32 in	D5	Greenfield Threading	**53PW21**
4 Flute, UNC					
#10-24	½ in	2 ⅜ in	H3	Cleveland	**435M25**
#10-24	⅞ in	2 ⅜ in	—	Widia GTD	**4GP93**
#10-24	⅞ in	2 ⅜ in	H2	Cle-Line	**407D51**
#10-24	⅞ in	2 ⅜ in	H2	Greenfield Threading	**15J763**
#10-24	⅞ in	2 ⅜ in	H2	Widia GTD	**53MK78**
#10-24	⅞ in	2 ⅜ in	H3	Greenfield Threading	**15J764**
#10-24	⅞ in	2 ⅜ in	H3	Westward	**5PXK1**
#12-24	½ in	2 ⅜ in	H3	Cleveland	**435M46**
#12-24	15/16 in	2 ⅜ in	—	Widia GTD	**4GR02**
#12-24	15/16 in	2 ⅜ in	H3	Greenfield Threading	**15J767**
#12-24	15/16 in	2 ⅜ in	H3	Widia GTD	**53MK54**
#8-32	⅜ in	2 ⅛ in	H2	Cleveland	**435L94**
#8-32	⅜ in	2 ⅛ in	H3	Cleveland	**435M03**
#8-32	¾ in	2 ⅛ in	—	Widia GTD	**4GP88**
#8-32	¾ in	2 ⅛ in	H2	Cle-Line	**407D49**
#8-32	¾ in	2 ⅛ in	H2	Greenfield Threading	**15J760**
#8-32	¾ in	2 ⅛ in	H2	Widia GTD	**53MK95**
#8-32	¾ in	2 ⅛ in	H3	Greenfield Threading	**15J761**
#8-32	¾ in	2 ⅛ in	H3	Westward	**5PXK0**
#8-32	¾ in	2 ⅛ in	H3	Widia GTD	**4AHM8**
¼"-20	⅝ in	2 ½ in	H1	Cleveland	**435M58**
¼"-20	⅝ in	2 ½ in	H2	Cleveland	**435M63**
¼"-20	⅝ in	2 ½ in	H3	Cleveland	**435M71**
¼"-20	1	2 ½ in	—	Widia GTD	**4GR11**
¼"-20	1	2 ½ in	H1	Greenfield Threading	**15J769**
¼"-20	1	2 ½ in	H2	Greenfield Threading	**15J770**
¼"-20	1	2 ½ in	H2	Widia GTD	**53MM40**
¼"-20	1	2 ½ in	H3	Greenfield Threading	**15J771**
¼"-20	1	2 ½ in	H3	Westward	**5PXK3**
5/16"-18	11/16 in	2 23/32 in	H3	Cleveland	**435M98**
5/16"-18	1 ⅛ in	2 23/32 in	—	Widia GTD	**4GR19**
5/16"-18	1 ⅛ in	2 23/32 in	H3	Greenfield Threading	**15J773**
5/16"-18	1 ⅛ in	2 23/32 in	H3	Westward	**5PXK5**
5/16"-18	1 ⅛ in	2 23/32 in	H3	Widia GTD	**4AHP9**
⅜"-16	¾ in	2 15/16 in	—	Cleveland	**435N25**
⅜"-16	1 ¼ in	2 15/16 in	—	Widia GTD	**4GR27**
⅜"-16	1 ¼ in	2 15/16 in	H3	Greenfield Threading	**15J775**
⅜"-16	1 ¼ in	2 15/16 in	H3	Westward	**5PXK7**
⅜"-16	1 ¼ in	2 15/16 in	H3	Widia GTD	**4AHT7**
7/16"-14	⅞ in	3 5/32 in	H3	Cleveland	**435N44**
7/16"-14	1 7/16 in	3 5/32 in	—	Widia GTD	**4GR35**
7/16"-14	1 7/16 in	3 5/32 in	H3	Greenfield Threading	**15J777**
7/16"-14	1 7/16 in	3 5/32 in	H3	Westward	**5PXK9**
7/16"-14	1 7/16 in	3 5/32 in	H3	Widia GTD	**4AHW5**
½"-13	15/16 in	3 ⅜ in	H3	Cleveland	**435N66**
½"-13	1 21/32 in	3 ⅜ in	—	Widia GTD	**4GR43**
½"-13	1 21/32 in	3 ⅜ in	H3	Greenfield Threading	**15J779**
½"-13	1 21/32 in	3 ⅜ in	H3	Westward	**5PXL1**
9/16"-12	1 21/32 in	3 19/32 in	—	Widia GTD	**4GR51**
9/16"-12	1	3 19/32 in	H3	Cleveland	**435N85**
9/16"-12	1 21/32 in	3 19/32 in	H3	Greenfield Threading	**15J781**

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Three-Piece Tap Kits

Tap Thread Size	Thread Length	Overall Length	Pitch Diameter Limit	Brand	Item No.
9/16"-12	1 21/32 in	3 19/32 in	H3	Westward	**5PXL3**
9/16"-12	1 21/32 in	3 19/32 in	H3	Widia GTD	**4AKC1**
5/8"-11	1 13/16 in	3 13/16 in	—	Widia GTD	**4GR59**
5/8"-11	1 5/64 in	3 13/16 in	H3	Cleveland	**435N93**
5/8"-11	1 13/16 in	3 13/16 in	H3	Greenfield Threading	**15J783**
5/8"-11	1 13/16 in	3 13/16 in	H3	Westward	**5PXL5**
5/8"-11	1 13/16 in	3 13/16 in	H3	Widia GTD	**4AKC9**
11/16"-11	1 13/16 in	4 1/32 in	H3	Greenfield Threading	**15J785**
3/4"-10	1 7/32 in	4 1/4 in	H3	Cleveland	**435P24**
3/4"-10	2 in	4 1/4 in	—	Widia GTD	**4GR67**
3/4"-10	2 in	4 1/4 in	H3	Greenfield Threading	**15J787**
3/4"-10	2 in	4 1/4 in	H3	Westward	**5TVY7**
3/4"-10	2 in	4 1/4 in	H3	Widia GTD	**4AKF7**
7/8"-9	2 7/32 in	4 11/16 in	—	Widia GTD	**4GR75**
7/8"-9	2 7/32 in	4 11/16 in	H4	Cleveland	**435P38**
7/8"-9	2 7/32 in	4 11/16 in	H4	Greenfield Threading	**15J789**
7/8"-9	2 7/32 in	4 11/16 in	H4	Westward	**5TVY9**
7/8"-9	2 7/32 in	4 11/16 in	H4	Widia GTD	**1C917**
1 1/8"-7	2 9/16 in	5 7/16 in	2B	Widia GTD	**53MN55**
1"-8	2 1/2 in	5 1/8 in	—	Widia GTD	**4GR83**
1"-8	2 1/2 in	5 1/8 in	H4	Cleveland	**435P49**
1"-8	2 1/2 in	5 1/8 in	H4	Greenfield Threading	**15J791**
1"-8	2 1/2 in	5 1/8 in	H4	Westward	**5TVZ1**
1 1/4"-7	2 9/16 in	5 3/4 in	H4	Westward	**5TVZ5**
1 1/8"-7	2 9/16 in	5 7/16 in	H4	Westward	**5TVZ3**
1"-8	2 1/2 in	5 1/8 in	H4	Widia GTD	**1C929**
1 1/4"-7	2 9/16 in	5 3/4 in	H4	Widia GTD	**4GZ95**
1 1/8"-7	2 9/16 in	5 7/16 in	H4	Widia GTD	**4GZ87**
1 3/8"-6	3 in	6 1/16 in	H4	Widia GTD	**53ML55**
1 1/2"-6	3 in	6 3/8 in	2B	Widia GTD	**53MN36**
1 1/2"-6	3 in	6 3/8 in	H4	Widia GTD	**4HF12**
4 Flute, UNF					
#10-32	1/2 in	2 3/8 in	H2	Cleveland	**435M30**
#10-32	1/2 in	2 3/8 in	H3	Cleveland	**435M38**
#10-32	7/8 in	2 3/8 in	—	Widia GTD	**4GP97**
#10-32	7/8 in	2 3/8 in	H2	Cle-Line	**407D52**
#10-32	7/8 in	2 3/8 in	H2	Greenfield Threading	**15J765**
#10-32	7/8 in	2 3/8 in	H2	Widia GTD	**53MK66**
#10-32	7/8 in	2 3/8 in	H3	Greenfield Threading	**15J766**
#10-32	7/8 in	2 3/8 in	H3	Westward	**5PXK2**
#10-32	7/8 in	2 3/8 in	H3	Widia GTD	**4AHN7**
#12-28	1/2 in	2 3/8 in	H3	Cleveland	**435M50**
#12-28	15/16 in	2 3/8 in	H3	Cle-Line	**407D53**
#12-28	15/16 in	2 3/8 in	H3	Greenfield Threading	**15J768**
#8-36	3/8 in	2 1/8 in	H2	Cleveland	**435M07**
#8-36	3/4 in	2 1/8 in	H2	Cle-Line	**407D50**
#8-36	3/4 in	2 1/8 in	H2	Greenfield Threading	**15J762**
#8-36	3/4 in	2 1/8 in	H2	Widia GTD	**53MK83**
1/4"-28	5/8 in	2 1/2 in	H3	Cleveland	**435M85**
1/4"-28	1	2 1/2 in	—	Widia GTD	**4GR15**
1/4"-28	1	2 1/2 in	H3	Greenfield Threading	**15J772**
1/4"-28	1	2 1/2 in	H3	Widia GTD	**4AHP5**
5/16"-24	11/16 in	2 23/32 in	H3	Cleveland	**435N08**
5/16"-24	1 1/8 in	2 23/32 in	—	Widia GTD	**4GR23**
5/16"-24	1 1/8 in	2 23/32 in	H3	Greenfield Threading	**15J774**
5/16"-24	1 1/8 in	2 23/32 in	H3	Widia GTD	**4AHT3**
3/8"-24	3/4 in	2 15/16 in	H3	Cleveland	**435N33**
3/8"-24	1 1/4 in	2 15/16 in	—	Widia GTD	**4GR31**
3/8"-24	1 1/4 in	2 15/16 in	H3	Greenfield Threading	**15J776**
3/8"-24	1 1/4 in	2 15/16 in	H3	Widia GTD	**4AHW1**
7/16"-20	7/8 in	3 5/32 in	H3	Cleveland	**435N50**
7/16"-20	1 7/16 in	3 5/32 in	—	Widia GTD	**4GR39**
7/16"-20	1 7/16 in	3 5/32 in	H3	Greenfield Threading	**15J778**
7/16"-20	1 7/16 in	3 5/32 in	H3	Westward	**5PXL0**
7/16"-20	1 7/16 in	3 5/32 in	H3	Widia GTD	**4AHW9**
1/2"-20	15/16 in	3 3/8 in	H3	Cleveland	**435N73**
1/2"-20	1 21/32 in	3 3/8 in	—	Widia GTD	**4GR47**
1/2"-20	1 21/32 in	3 3/8 in	H3	Greenfield Threading	**15J780**
1/2"-20	1 21/32 in	3 3/8 in	H3	Westward	**5PXL2**
1/2"-20	1 21/32 in	3 3/8 in	H3	Widia GTD	**4AHX7**
9/16"-18	1 21/32 in	3 19/32 in	—	Widia GTD	**4GR55**
9/16"-18	1	3 19/32 in	H3	Cleveland	**435N89**
9/16"-18	1 21/32 in	3 19/32 in	H3	Greenfield Threading	**15J782**
9/16"-18	1 21/32 in	3 19/32 in	H3	Widia GTD	**4AKC5**
5/8"-18	1 13/16 in	3 13/16 in	—	Widia GTD	**4GR63**
5/8"-18	1 5/64 in	3 13/16 in	H3	Cleveland	**435N99**
5/8"-18	1 13/16 in	3 13/16 in	H3	Greenfield Threading	**15J784**
5/8"-18	1 13/16 in	3 13/16 in	H3	Widia GTD	**4AKF3**
11/16"-16	1 13/16 in	4 1/32 in	H3	Greenfield Threading	**15J786**
3/4"-16	1 7/32 in	4 1/4 in	H3	Cleveland	**435P28**
3/4"-16	2 in	4 1/4 in	—	Widia GTD	**4GR71**
3/4"-16	2 in	4 1/4 in	H3	Greenfield Threading	**15J788**
3/4"-16	2 in	4 1/4 in	H3	Westward	**5TVY8**
3/4"-16	2 in	4 1/4 in	H3	Widia GTD	**4AKH1**
7/8"-14	2 7/32 in	4 11/16 in	2B	Widia GTD	**53MN66**
7/8"-14	2 7/32 in	4 11/16 in	H4	Cleveland	**435P42**
7/8"-14	2 7/32 in	4 11/16 in	H4	Greenfield Threading	**15J790**
7/8"-14	2 7/32 in	4 11/16 in	H4	Westward	**5TVZ0**
7/8"-14	2 7/32 in	4 11/16 in	H4	Widia GTD	**1C923**
1"-12	2 1/2 in	5 1/8 in	2B	Widia GTD	**53MN63**
1"-12	2 1/2 in	5 1/8 in	H4	Widia GTD	**4GZ76**
1 1/8"-12	2 9/16 in	5 7/16 in	H4	Widia GTD	**4GZ91**
4 Flute, UNS					
3/16"-24	7/8 in	2 3/8 in	2B	Widia GTD	**53MN67**
11/16"-11	1 13/16 in	4 1/32 in	H3	Cle-Line	**407D54**
11/16"-16	1 13/16 in	4 1/32 in	H3	Cle-Line	**407D55**
11/16"-16	1 5/64 in	4 1/32 in	H3	Cleveland	**435P15**
11/16"-11	1 5/64 in	4 1/32 in	H3	Cleveland	**435P11**
1"-14	2 1/2 in	5 1/8 in	H4	Cleveland	**435P56**
1"-14	2 1/2 in	5 1/8 in	H4	Greenfield Threading	**15J792**
1"-14	2 1/2 in	5 1/8 in	H4	Widia GTD	**53ML60**
6 Flute, UNF					
1 1/4"-12	2 9/16 in	5 3/4 in	H4	Widia GTD	**4GZ99**
1 1/2"-12	3 in	6 3/8 in	H4	Widia GTD	**4HF16**
1 3/8"-12	3 in	6 1/16 in	H4	Widia GTD	**53ML52**
Right Hand, TiN-Coated, High-Speed Steel					
3 Flute, Metric					
M2.5-0.45	12.70 mm	46.04 mm	D3	Greenfield Threading	**434Y81**
M2-0.40	11.11 mm	44.45 mm	D3	Greenfield Threading	**434Y80**
M3-0.50	7.87 mm	49.28 mm	D3	Greenfield Threading	**434Y82**
3 Flute, UNC					
#2-56	7/16 in	1 3/4 in	H2	Greenfield Threading	**53PW29**
#3-48	1/2 in	1 13/16 in	H2	Greenfield Threading	**434Y92**
#4-40	5/16 in	1 7/8 in	H2	Greenfield Threading	**53PW18**
#5-40	5/16 in	1 15/16 in	H2	Greenfield Threading	**53PW12**
#6-32	3/8 in	2 in	H3	Greenfield Threading	**53PW10**
3 Flute, UNF					
#3-56	1/2 in	1 13/16 in	H2	Greenfield Threading	**434Y93**
#4-48	5/16 in	1 7/8 in	H2	Greenfield Threading	**53PW17**
#5-44	5/16 in	1 15/16 in	H2	Greenfield Threading	**53PW11**
#6-40	3/8 in	2 in	H2	Greenfield Threading	**53PW09**
4 Flute, Metric					
M10-1.50	19.05 mm	74.68 mm	D6	Greenfield Threading	**434Y87**
M12-1.75	23.88 mm	85.85 mm	D6	Greenfield Threading	**434Y88**
M14-2.00	25.40 mm	91.19 mm	D7	Greenfield Threading	**434Y89**
M16-2.00	25.40 mm	96.77 mm	D7	Greenfield Threading	**434Y90**
M4-0.70	9.65 mm	54.10 mm	D4	Greenfield Threading	**434Y83**
M5-0.80	12.70 mm	60.45 mm	D4	Greenfield Threading	**434Y84**
M6-1.00	16.00 mm	63.50 mm	D5	Greenfield Threading	**434Y85**
M8-1.25	17.53 mm	69.09 mm	D5	Greenfield Threading	**434Y86**
4 Flute, UNC					
#10-24	1/2 in	2 3/8 in	H3	Greenfield Threading	**53PW32**
#12-24	1/2 in	2 3/8 in	H3	Greenfield Threading	**53PW30**
#8-32	3/8 in	2 1/8 in	H3	Greenfield Threading	**53PW04**
1/4"-20	5/8 in	2 1/2 in	H3	Greenfield Threading	**53PW34**
5/16"-18	11/16 in	2 23/32 in	H3	Greenfield Threading	**53PW16**
3/8"-16	3/4 in	2 15/16 in	H3	Greenfield Threading	**53PW20**
7/16"-14	7/8 in	3 5/32 in	H3	Greenfield Threading	**53PW08**
1/2"-13	15/16 in	3 3/8 in	H3	Greenfield Threading	**53PW36**
9/16"-12	1	3 19/32 in	H3	Greenfield Threading	**53PW02**
5/8"-11	1 5/64 in	3 13/16 in	H3	Greenfield Threading	**53PW14**
3/4"-10	1 7/32 in	4 1/4 in	H3	Greenfield Threading	**53PW28**
7/8"-9	2 7/32 in	4 11/16 in	H4	Greenfield Threading	**53PW05**
1"-8	2 1/2 in	5 1/8 in	H4	Greenfield Threading	**53PW37**
4 Flute, UNF					
#10-32	1/2 in	2 3/8 in	H3	Greenfield Threading	**53PW31**
#8-36	3/8 in	2 1/8 in	H2	Greenfield Threading	**53PW03**
1/4"-28	5/8 in	2 1/2 in	H3	Greenfield Threading	**53PW33**
5/16"-24	11/16 in	2 23/32 in	H3	Greenfield Threading	**53PW15**
3/8"-24	3/4 in	2 15/16 in	H3	Greenfield Threading	**53PW19**
7/16"-20	7/8 in	3 5/32 in	H3	Greenfield Threading	**53PW07**
1/2"-20	15/16 in	3 3/8 in	H3	Greenfield Threading	**53PW35**
5/8"-18	1 5/64 in	3 13/16 in	H3	Greenfield Threading	**53PW13**
3/4"-16	1 7/32 in	4 1/4 in	H3	Greenfield Threading	**53PW27**
7/8"-14	2 7/32 in	4 11/16 in	H4	Greenfield Threading	**53PW06**

For more information on taps, see page 2261.

Tap and Die Sets

High-Speed Steel Taps & High-Speed Steel Dies 1PZ44

Sets contain multiple taps and dies for threading tasks. Taps create internal threads in holes, and dies create or repair external threads on parts that will be installed in the holes.

No. of Pieces	Min. Tap Thread Size	Max. Tap Thread Size	Max. Die Thread Size	Brand	Item No.
Carbon Steel Taps & Carbon Steel Die Sets					
Plug, Taper Tap Chamfer & Hex Die Shape					
40	⅛"-27	½"-13, ½"-20	½"-20	Irwin Hanson	**40L827**
40	#4-40	½"-20	½"-20	Bosch	**55HY18**
40	M3x0.5	M12x1.75	M12x1.75	Bosch	**55HY19**
41	M3x0.5	M12x1.50, M12x1.75	M12x1.75	Irwin Hanson	**8ANC7**
42	#4-40	½"-20	½"-20	Gearwrench	**3KLR5**
42	M3x0.5	M12x1.75	M12x1.75	Gearwrench	**3KLR4**
66	M3x0.5	M24x3.00	M24x3	Irwin Hanson	**2ETL6**
77	M3x0.5	12x1.75	M12x1.75	Gearwrench	**3KLR3**
114	M3x0.5	M18x2.50	M18x2.5	Gearwrench	**3KLR6**
116	#4-40	½"-13, ½"-20	½"-20	Irwin Hanson	**40L824**
Plug, Taper Tap Chamfer & Round Die Shape					
39	#4-40	½"-13	½"-13	Westward	**1PZ49**
41	¼"-20	¾"-16	¾"-16	Westward	**1PZ51**
64	#4-40	1"	1"-14	Westward	**1PZ53**
110	#4-40	M18	¾"-16	Westward	**1PZ54**
Plug Tap Chamfer & Hex Die Shape					
12	#10-32	¼"-20	¼"-20	Irwin Hanson	**2ETL2**
24	⅛"-27	½"-20	½"-20	Irwin Hanson	**5VUC7**
40	⅛"-28	M12x1.75	M12x1.75	Irwin Hanson	**40L829**
41	½"-20	½"-13, ½"-20	½"-20	Irwin Hanson	**2ETL3**
53	⅛"-27	¾"-16	¾"-16	Irwin Hanson	**9K174**
53	M3x0.5	M18x2.50	M18x2.5	Irwin Hanson	**9K175**
75	¼"-20	½" - 20	½" - 20	Irwin Hanson	**40L825**
76	#4-40	½"-20	½"-20	Irwin Hanson	**2ETL4**
Plug Tap Chamfer & Round Die Shape					
12	¼"-20	½"-13	½"-13	Westward	**1PZ39**
16	¼"-20	¾"-10	¾"-10	Westward	**1PZ40**
21	¼"-20	¾"-10	¾"-10	Westward	**1PZ41**
22	¼"-20	½"-20	½"-20	Westward	**1PZ48**
30	¼"-20	¾"-16	¾"-16	Westward	**1PZ42**
45	¼"-20	1"	1"-14	Westward	**1PZ43**
High-Speed Steel Taps & Carbon Steel Die Sets					
Plug, Taper Tap Chamfer & Round Die Shape					
41	M3x0.5	½"-13, ½"-20	13/32"	Irwin Hanson	**40L831**
Plug Tap Chamfer & Round Adjustable Die Shape					
13	¼"-20	½"-13	½"-13	Greenfield Threading	**445M58**
16	M6x1	M18x2.50	M18x2.5	Greenfield Threading	**445M61**
18	#4-40	¼"-20	¼"-20	Greenfield Threading	**53PR87**
23	¼"-20	½"-20	½"-20	Greenfield Threading	**445M59**
44	¼"-20	1"-14	1"-14	Greenfield Threading	**445M62**
45	¼"-20	1"-14	1"-14	Greenfield Threading	**445M60**
Plug Tap Chamfer & Round Die Shape					
10	#12-24	#12-24	#12-24	Greenfield Threading	**445M46**
10	#2-56	#12-24	#12-24	Cle-Line	**50CA41**
13	M6x1	M12x1.75	M12x1.75	Greenfield Threading	**445M50**
13	¼"-20	½"-13	½"-13	Greenfield Threading	**445M53**
13	¼"-20	½"-13	½"-13	Cleveland	**4ALH0**
16	M6x1	M14x2	M16x2	Cleveland	**4ALF7**
17	#4-40	¼"-20	¼"-20	Cleveland	**4ALF8**
17	#4-40	¼"-20	¼"-20	Greenfield Threading	**445M52**
19	#0-80	#10-24	#10-24	Greenfield Threading	**445M54**
23	#4-40	#12-28	#12-24	Cleveland	**4ALF9**
25	⅛"-27	½"-20	½"-20	Cleveland	**4ALH2**
39	#12-24	½"-13	½"-13	Irwin Hanson	**35T662**
41	⅛"-27	¾"-16	¾"-16	Irwin Hanson	**35T655**
44	¼"-20	1"-12	1"-12	Greenfield Threading	**445M48**
45	¼"-20	1"-14	1"-14	Cleveland	**4ALF6**
Plug Tap Chamfer & Round Fixed Die Shape					
18	#4-40	¼"-20	¼"-20	Cleveland	**4ALF1**
23	¼"-20	1"-8	1"-8	Cleveland	**4ALF3**
23	¼"-20	½"-20	½"-20	Cleveland	**4ALF5**
High-Speed Steel Taps & High-Speed Steel Die Sets					
Plug, Taper Tap Chamfer & Round Fixed Die Shape					
39	4-40	½"-20	½"-20	Westward	**1PZ36**
41	⅛"-27	¾"-16	¾"-16	Westward	**1PZ50**
64	4-40	1"-14	1"-14	Westward	**1PZ37**
110	4-40	¾"-16	¾"-16	Westward	**1PZ38**
Plug Tap Chamfer & Round Die Shape					
13	M6x1	M12x1.75	M12x1.75	Cle-Line	**445M63**
17	M2.5x0.45	M6x1.00	M6x1	Cle-Line	**50AT30**
Plug Tap Chamfer & Round Fixed Die Shape					
12	¼"-20	½"-13	½"-13	Westward	**1PZ44**
12	¼"-28	½"-20	½"-20	Westward	**1PZ45**
16	¼"-20	¾"-10	¾"-10	Westward	**1PZ34**
16	¼"-28	¾""-16	¾""-16	Westward	**1PZ33**
21	¼"-20	¾"-10	¾"-10	Westward	**1PZ46**
22	¼"-20	½"-20	½"-20	Westward	**1PZ47**
30	¼"-20	¾"-16	¾"-16	Westward	**1PZ35**
45	¼"-20	1"-14	1"-14	Westward	**1PZ52**

Combination Drill, Tap & Countersink Set 6EXL3

Combination Drill, Tap and Countersink Sets

- Right-hand thread direction
- High-speed steel material

These sets contain multiple combination drill-tap-and-countersink tools in a range of sizes. Combination drills, taps, and countersinks make a hole, create threads in the hole, and countersink the top of the hole in one pass.

No. of Pieces	Thread Sizes Included	Finish - Machining	Brand	Item No.
Combination Drill, Tap & Countersink Sets				
6	¼"-20, #10-24, #10-32, #12-24, #6-32, #8-32	Bright (Uncoated)	Greenlee	**4GB12**
6	M10x1.5, M3x0.5, M4x0.7, M5x0.8, M6x1, M8x1.25	Bright (Uncoated)	Greenlee	**1ANZ3**
6	#10-24, #10-32, #12-24, #6-32, #8-32, ¼"-20	Bright (Uncoated)	Westward	**6EXL3**
Combination Drill & Tap Sets				
5	¼"-20, #10-24, #10-32, #12-24, #8-32	Bright (Uncoated)	DeWalt	**49JP52**
6	¼"-20, #10-24, #10-32, #12-24, #6-32, #8-32	Bright (Uncoated)	Greenlee	**30HK33**
Multiple-Size Tap Sets				
18	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Bright (Uncoated)	Greenfield Threading	**445M40**
18	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Bright (Uncoated)	Greenfield Threading	**445M42**
18	#10-24, #10-32, #6-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	TiN	Greenfield Threading	**445M41**
20	#10-24, #8-32, ½"-13, ¼"-20, ⅜"-16, 5/16"-18, 7/16"-14	Bright (Uncoated)	Greenfield Threading	**445M44**
36	#10-24, #10-32, #12-28, #8-32, ½"-13, ½"-20, ¼"-20, ¼"-28, #12-24, ⅜"-16, ⅜"-24, 5/16"-18, 5/16"-24, 7/16"-14, 7/16"-20	Bright (Uncoated)	Greenfield Threading	**445M43**

Combination Drills, Taps and Countersinks

- Right-hand thread direction
- High-speed steel material
- Bright (uncoated) finish

These combination tools drill a hole and create threads in the hole in one pass. They also create a countersink at the top of the hole that allows a screw to sit flush with the top of the hole when it is screwed into the hole.

45HE96

Thread Size	Overall Length	Brand	Item No.
#10-24	2 1/32 in	Greenlee	**1FAJ9**
#10-24	2 7/32 in	DeWalt	**45HE96**
#10-24	2 ¼ in	Westward	**6EXL9**
#10-24	2 5/16 in	DeWalt	**49JP46**
#10-32	2 ¼ in	Greenlee	**1FAL1**
#10-32	2 7/32 in	DeWalt	**45HE97**
#10-32	2 ¼ in	Westward	**6EXN0**
#10-32	2 5/16 in	DeWalt	**49JP47**
#12-24	2 ¼ in	Greenlee	**1FAL2**
#12-24	2 ¼ in	DeWalt	**45HE98**
#12-24	2 ¼ in	Westward	**6EXN1**
#12-24	2 11/32 in	DeWalt	**49JP48**
#6-32	2 1/32 in	Greenlee	**1FAL3**
#6-32	2 in	Westward	**6EXL7**
#8-32	2 1/32 in	Greenlee	**1ANV8**
#8-32	2 1/16 in	DeWalt	**45HE95**
#8-32	2 5/32 in	DeWalt	**49JP45**
#8-32	3 in	Westward	**6EXL8**
¼"-20	2 ¼ in	Greenlee	**1FAJ8**
¼"-20	2 9/32 in	DeWalt	**45HE99**
¼"-20	2 ¼ in	Westward	**6EXL5**
¼"-20	2 ⅜ in	DeWalt	**49JP49**
⅜"-16	3 ¼ in	Greenlee	**1ANZ5**
⅜"-16	3 ⅛ in	DeWalt	**45HF01**
⅜"-16	3 3/32 in	DeWalt	**49JP50**
⅜"-16	3 ¼ in	Westward	**6EXL6**
5/16"-18	3 ¼ in	Greenlee	**1ANZ4**
5/16"-18	3 ⅛ in	DeWalt	**45HF02**
5/16"-18	3 3/32 in	DeWalt	**49JP51**
5/16"-18	3 ¼ in	Westward	**6EXL4**
M10x1.5	2 ⅜ in	DeWalt	**49JP56**
M5x0.8	2 5/16 in	DeWalt	**49JP53**
M6x1.0	2 5/16 in	DeWalt	**49JP54**
M8x1.25	2 11/32 in	DeWalt	**49JP55**

Additional die sizes and materials are available on Grainger.com®.

**Black Oxide
Metric Coarse, Semi-Bottoming,
Modified Bottoming
427X71**

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Thread Limit / Class of Fit	Brand	Item No.
Black Oxide						
Metric Coarse, Modified Bottom, Semi-Bottom						
M10x1.5	20.00 mm	100.00 mm	8.50 mm	6HX / 6HX	Walter Prototyp	**427X65**
M3.5x0.6	11.00 mm	56.00 mm	2.90 mm	6HX / 6HX	Walter Prototyp	**427X67**
M3x0.5	9.00 mm	56.00 mm	2.50 mm	6HX / 6HX	Walter Prototyp	**427X66**
M4x0.7	12.00 mm	63.00 mm	3.30 mm	6HX / 6HX	Walter Prototyp	**427X68**
M5x0.8	13.00 mm	70.00 mm	4.20 mm	6HX / 6HX	Walter Prototyp	**427X69**
M6x1	15.00 mm	80.00 mm	5.00 mm	6HX / 6HX	Walter Prototyp	**427X70**
M8x1.25	18.00 mm	90.00 mm	H	6HX / 6HX	Walter Prototyp	**427X71**
Bright (Uncoated)						
Metric Coarse, Bottom						
M10x1.5	1 ¼ in	2 15/16 in	8.50 mm	—	OSG	**6WGJ5**
M12x1.75	1 21/32 in	3 ⅜ in	7/16 in	—	OSG	**6WGJ7**
M4x0.7	¾ in	2 ⅛ in	3.30 mm	—	OSG	**6WGH4**
M8x1.25	1 ⅛ in	2 23/32 in	H	—	OSG	**6WGJ2**
Metric Coarse, Bottom, Taper						
M3x0.5	7.95 mm	49.28 mm	2.75 mm	D5	Widia GTD	**13X314**
M4x0.7	9.53 mm	54.10 mm	3.65 mm	D6	Widia GTD	**13X313**
M6x1	15.88 mm	63.50 mm	5.50 mm	D8	Widia GTD	**13X311**
M8x1.25	17.48 mm	69.09 mm	L	D9	Widia GTD	**13X310**
UNC, Bottom						
#10-24	½ in	2 ⅜ in	4.27 mm	H6 / 2B-3B	Cleveland	**435W13**
#2-56	7/16 in	1 ¾ in	1.73 mm	2B	OSG	**6WGC3**
#2-56	7/16 in	1 ¾ in	1.95 mm	H2 / 2B	Cleveland	**435V96**
#4-40	9/16 in	1 ⅞ in	2.20 mm	2B	OSG	**6WGC7**
#6-32	⅜ in	2 in	3.10 mm	H3	Widia GTD	**2XUA8**
#6-32	⅜ in	2 in	3.10 mm	H5 / 2B-3B	Greenfield Threading	**15K001**
#8-32	⅜ in	2 ⅛ in	3.75 mm	H3 / 2B	Cleveland	**435W07**
¼"-20	⅝ in	2 ½ in	5.70 mm	H4	Widia GTD	**2XUC6**
¼"-20	⅝ in	2 ½ in	5.70 mm	H4 / 2B	Cleveland	**435W19**
¼"-20	⅝ in	2 ½ in	5.70 mm	H6 / 2B	Cleveland	**435W21**
¼"-20	1 in	2 ½ in	5.70 mm	2B	OSG	**6WGE1**
5/16"-18	1 ⅛ in	2 23/32 in	F	2B	OSG	**6WGE7**
⅜"-16	¾ in	2 15/16 in	11/32 in	H5	Widia GTD	**2XUD1**
⅜"-16	1 ¼ in	2 15/16 in	5/16 in	2B	OSG	**6WGF3**
7/16"-14	1 7/16 in	3 5/32 in	U	2B	OSG	**6WGF9**
½"-20	15/16 in	3 ⅜ in	12.05 mm	H5	Widia GTD	**2XUD4**
½"-13	1 21/32 in	3 ⅜ in	27/64 in	2B	OSG	**6WGG5**
⅝"-11	1 1/16 in	3 13/16 in	37/64 in	H7	Widia GTD	**2XUD5**

General Purpose Chip-Free Thread-Forming Taps

- Right-hand thread direction

General purpose chip-free taps are made from high-speed steel and can create threads in a wide range of materials.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Thread Limit / Class of Fit	Brand	Item No.
UNC, Plug						
#10-24	½ in	2 ⅜ in	4.27 mm	H4 / 2B	Greenfield Threading	**15J976**
#4-40	5/16 in	1 ⅞ in	—	H3 / 2B	Cleveland	**435V97**
UNC, Plug, Taper						
#4-40	5/16 in	1 ⅞ in	2.52 mm	H3	Widia GTD	**2XTX7**
#6-32	⅜ in	2 in	3.10 mm	H3	Widia GTD	**2XTY1**
⅝"-11	1 1/16 in	3 13/16 in	37/64 in	H7	Widia GTD	**2XUA1**
UNC, UNJC, Bottom, Taper						
#12-24	½ in	2 ⅜ in	4.95 mm	H4	Widia GTD	**13X406**
#6-32	⅜ in	2 in	3.10 mm	H3	Widia GTD	**13X307**
¼"-20	⅝ in	2 ½ in	5.70 mm	H4	Widia GTD	**13X282**
⅜"-16	¾ in	2 15/16 in	11/32 in	H7	Widia GTD	**13X265**
½"-13	15/16 in	3 ⅜ in	11.70 mm	H5	Widia GTD	**13X258**
½"-13	15/16 in	3 ⅜ in	11.70 mm	H7	Widia GTD	**13X259**
UNF, Plug, Taper						
#10-32	½ in	2 ⅜ in	4.40 mm	H4	Widia GTD	**2XTY5**
⅜"-24	¾ in	2 15/16 in	9.00 mm	H8	Widia GTD	**2XTZ3**
TiCN						
Metric Coarse, Bottom, Taper						
M3x0.5	7.95 mm	49.28 mm	2.75 mm	D5	Widia GTD	**12E991**
M4x0.7	9.53 mm	54.10 mm	3.65 mm	D6	Widia GTD	**12F134**
M5x0.8	12.70 mm	60.45 mm	4.60 mm	D7	Widia GTD	**12F132**
M6x1	15.88 mm	63.50 mm	5.50 mm	D8	Widia GTD	**12E988**
M8x1.25	17.48 mm	69.09 mm	L	D9	Widia GTD	**12F128**
UNC, Bottom						
#10-24	⅞ in	2 ⅜ in	4.27 mm	2B	OSG	**6WGD7**
#3-48	½ in	1 13/16 in	2.00 mm	2B	OSG	**6WGC6**
#6-32	⅜ in	2 in	3.10 mm	H3	Widia GTD	**12F004**
#6-32	11/16 in	2 in	3.10 mm	2B	OSG	**6WGD1**
#8-32	¾ in	2 ⅛ in	3.40 mm	2B	OSG	**6WGD4**
¼"-20	⅝ in	2 ½ in	5.70 mm	H4	Widia GTD	**12E997**
UNC, Bottom, Taper						
#10-24	½ in	2 ⅜ in	4.27 mm	H4	Widia GTD	**12F170**
#6-32	⅜ in	2 in	3.10 mm	H5	Widia GTD	**12F184**
⅜"-16	¾ in	2 15/16 in	11/32 in	H7	Widia GTD	**12F146**
½"-13	15/16 in	3 13/16 in	11.70 mm	H5	Widia GTD	**12F139**
UNF, Bottom						
#0-80	5/16 in	1 ⅝ in	1.20 mm	2B	OSG	**6WGC2**
#10-32	½ in	2 ⅜ in	4.40 mm	H4	Widia GTD	**12E998**
#10-32	⅞ in	2 ⅜ in	4.40 mm	2B	OSG	**6WGE0**
7/16"-20	1 7/16 in	3 5/32 in	9.95 mm	2B	OSG	**6WGG4**

High-Performance Chip-Free Thread-Forming Taps

- Right-hand flute direction

High-performance chip-free taps are harder and more wear-resistant than general purpose chip-free taps. They provide better precision and accuracy than general purpose taps when used in designated materials.

**Multiple Material Tapping,
UNF, TiCN,
DIN/ANSI
UNF, Plug
54MC84**

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.
Multiple Material Tapping, Metric Coarse, TiCN, DIN/ANSI						
Metric Coarse, Bottom						
M1.2x0.25	5.00 mm	40.00 mm	D5 / 6H	Cobalt	OSG	**54MC89**
M16x2	20.00 mm	110.00 mm	D12 / 6H	Cobalt	OSG	**54MD62**
M6x1	10.00 mm	80.00 mm	D8	Cobalt	OSG	**54MD28**
M7x1	12.00 mm	80.00 mm	D8	Cobalt	OSG	**54MD32**
Metric Coarse, Modified Bottom, Semi-Bottom						
M16x2	20.00 mm	110.00 mm	D7 / 6H	Cobalt	OSG	**33VU39**
M30x3.5	21.00 mm	180.00 mm	D15	Cobalt	OSG	**54MD91**
M4.5x0.75	9.00 mm	70.00 mm	D4	Cobalt	OSG	**33VU54**
Metric Coarse, Plug						
M12x1.75	17.00 mm	110.00 mm	D11 / 6H	Cobalt	OSG	**54MD55**
M1x0.25	5.00 mm	40.00 mm	D5 / 6H	Cobalt	OSG	**54MC94**
Multiple Material Tapping, UNC, Bright (Uncoated)						
UNC, Modified Bottom, Semi-Bottom						
#10-24	½ in	2 23/64 in	H10	Cobalt	OSG	**33WH02**
#2-56	⅜ in	1 ¾ in	H5	Cobalt	OSG	**2TTU1**
#6-32	⅜ in	2 in	H3 / 3B	Cobalt	OSG	**2TTZ5**
¼"-20	⅝ in	2 ½ in	H2	Cobalt	OSG	**33WH58**
⅜"-16	¾ in	2 15/16 in	H4	Cobalt	OSG	**33WL28**
½"-13	⅞ in	3 ⅜ in	H4	Cobalt	OSG	**33WN20**
½"-20	⅞ in	3 ⅜ in	H10	Cobalt	OSG	**33WX20**
9/16"-12	1 in	3 37/64 in	H6	Cobalt	OSG	**33WP17**
⅝"-11	1 1/16 in	3 13/16 in	H6	Cobalt	OSG	**33WR14**
⅝"-11	1 1/16 in	3 13/16 in	H5	Cobalt	OSG	**33WR10**
¾"-10	1 3/16 in	4 ¼ in	H6	Cobalt	OSG	**33WT02**
UNC, Plug						
#4-40	¼ in	1 55/64 in	H3 / 3B	Cobalt	OSG	**2TTY8**
⅜"-16	¾ in	2 15/16 in	H4	Cobalt	OSG	**33WL44**
9/16"-12	1 in	3 37/64 in	H7 / 3B	Cobalt	OSG	**33WP45**
¾"-10	1 3/16 in	4 ¼ in	H10 / 2B	Cobalt	OSG	**2TTN3**
¾"-10	1 3/16 in	4 ¼ in	H12	Cobalt	OSG	**33WY68**
Multiple Material Tapping, UNC, TiCN, DIN/ANSI						
UNC, Bottom						
½"-13	¾ in	4 21/64 in	H8 / 2B	Cobalt	OSG	**54MC40**
9/16"-12	13/16 in	4 21/64 in	H7 / 3B	Cobalt	OSG	**54MC58**
⅝"-11	⅞ in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC51**

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.
UNC, Modified Bottom, Semi-Bottom						
5/16"-18	½ in	3 17/32 in	H5 / 3B	Cobalt	OSG	**33VT67**
1 ¼"-7	13/16 in	7 5/64 in	H13 / 2B	Cobalt	OSG	**54MC71**
UNC, Plug						
5/16"-18	½ in	3 17/32 in	H7 / 2B	Cobalt	OSG	**54MC28**
½"-13	¾ in	4 21/64 in	H8 / 2B	Cobalt	OSG	**54MC41**
9/16"-12	13/16 in	4 21/64 in	H7 / 3B	Cobalt	OSG	**54MC59**
⅝"-11	⅞ in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC50**
1"-8	1 ¼ in	6 19/64 in	H11 / 2B	Cobalt	OSG	**54MC80**
Multiple Material Tapping, UNC, TiN						
UNC, Bottom						
#10-24	½ in	2 23/64 in	H6 / 2B	Cobalt	OSG	**33WG39**
#4-40	¼ in	1 55/64 in	H7	Cobalt	OSG	**33WG51**
¼"-20	⅝ in	2 ½ in	H6 / 2B	Cobalt	OSG	**2TTV5**
UNC, Modified Bottom, Semi-Bottom						
#10-24	½ in	2 23/64 in	H7	Cobalt	OSG	**33WE06**
#4-40	¼ in	1 55/64 in	H3 / 3B	Cobalt	OSG	**2TTP2**
#6-32	⅜ in	2 in	H6	Cobalt	OSG	**4APW4**
#6-32	⅜ in	2 in	H8	Cobalt	OSG	**33WA65**
#8-32	⅜ in	2 ⅛ in	H9	Cobalt	OSG	**33WC90**
¼"-20	⅝ in	2 ½ in	H7	Cobalt	OSG	**33WH64**
¼"-20	⅝ in	2 ½ in	H6 / 2B	Cobalt	OSG	**2TTV8**
5/16"-18	⅝ in	2 23/32 in	H3	Cobalt	OSG	**2TTU7**
5/16"-18	⅝ in	2 23/32 in	H5 / 3B	Cobalt	OSG	**2TTU6**
⅜"-16	¾ in	2 15/16 in	H6	Cobalt	OSG	**33WL34**
⅝"-11	1 1/16 in	3 13/16 in	H10 / 2B	Cobalt	OSG	**33WX94**
⅝"-11	1 1/16 in	3 13/16 in	H6	Cobalt	OSG	**33WR16**
¾"-10	1 3/16 in	4 ¼ in	H8	Cobalt	OSG	**33WT12**
UNC, Plug						
#6-32	⅜ in	2 in	H10	Cobalt	OSG	**33WG75**
Multiple Material Tapping, UNF, TiCN, DIN/ANSI						
UNF, Bottom						
¾"-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC83**
UNF, Modified Bottom, Semi-Bottom						
#10-32	½ in	2 ¾ in	H4 / 3B	Cobalt	OSG	**33VT58**
UNF, Plug						
¾"-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	**54MC84**
Steel Tapping Metric Coarse, Black Oxide						
Metric Coarse, Modified Bottom, Semi-Bottom						
M1.2x0.25	5.50 mm	40.00 mm	6HX / 5HX	High Speed Steel	Walter Prototyp	**427X42**
M1.4x0.3	7.00 mm	40.00 mm	6HX / 5HX	High Speed Steel	Walter Prototyp	**427X43**
M1.6x0.35	8.00 mm	40.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X44**
M10x1.5	20.00 mm	100.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X45**
M2.5x0.45	8.00 mm	50.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X47**
M2x0.4	6.00 mm	45.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X46**
M3x0.5	9.00 mm	56.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X48**
M4x0.7	12.00 mm	63.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X49**
M5x0.8	13.00 mm	70.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X50**
M6x1	15.00 mm	80.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X51**
M8x1.25	18.00 mm	90.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	**427X52**

For more information on taps, see page 2261.

Right Hand
60HL04

REGAL CUTTING TOOLS

Acme Taps

- High-speed steel material
- Bright (uncoated) finish
- 4 flutes
- 2G thread limit/class of fit

These taps create trapezoidal Acme threads, which have a 29° thread angle and are stronger than similarly sized square threads. Sometimes called tandem taps, Acme taps are used for threading through holes on parts that allow rotation or transversing (straight-line) movement on equipment that will bear heavy loads, such as jacks, valves, and presses. They are installed in tap holders in rigid setups such as drill presses and milling machines.

Thread Size	Thread Length	Overall Length	Item No.
Left Hand			
1 1/8"-5	2.5600 in	5.4400 in	**60HL33**
1 1/4"-5	2.5600 in	5 3/4 in	**60HL37**
1 3/8"-4	3 in	6.0600 in	**60HL41**
1 1/2"-4	3 in	6.3800 in	**60HL45**
1 1/2"-4	5.8800 in	12.6300 in	**60HL47**
1 3/8"-4	5.8800 in	12 1/4 in	**60HL43**
1"-5	5 1/4 in	10.1300 in	**60HL30**
1 1/8"-5	5 1/4 in	10 3/4 in	**60HL35**
1 1/4"-5	5 1/4 in	11.1300 in	**60HL39**
Right Hand			
3/8"-12	2.1300 in	4.0600 in	**60HL04**
1/2"-10	1.6600 in	3.3800 in	**60HL05**
1/2"-10	2.5600 in	5 in	**60HL07**
5/8"-8	1.8100 in	3.8100 in	**60HL09**
5/8"-8	3.1900 in	6 1/4 in	**60HL11**
3/4"-10	2 in	4 1/4 in	**60HL22**
3/4"-5	2 in	4 1/4 in	**60HL13**
3/4"-5	2 in	4 1/4 in	**60HL14**
3/4"-6	2 in	4 1/4 in	**60HL15**
3/4"-8	2 in	4 1/4 in	**60HL19**
3/4"-6	4.3100 in	7.9400 in	**60HL17**

Black Oxide
33YW96

REGAL CUTTING TOOLS

Pulley Taps

- Right-hand thread direction
- High-speed steel material
- 4 flutes
- H3 thread limit

Pulley taps make internal threads in set-screw holes on pulley assemblies, and they each have a long shank that acts as an alignment guide as the tap reaches through a pulley hub to access the holes. The taps can access hard-to-reach holes that a standard tap could not reach, and their shank diameter is roughly equal to their thread diameter.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Brand	Item No.
Black Oxide					
1/4"-20	1 in	6 in	#7	OSG	**33PD22**
1/4"-20	1 in	8 in	#7	OSG	**33YW96**
5/16"-18	1 1/8 in	6 in	F	OSG	**33YW97**
5/16"-18	1 1/8 in	8 in	F	OSG	**33YW98**
3/8"-16	1 1/4 in	6 in	5/16 in	OSG	**33YW99**
3/8"-16	1 1/4 in	8 in	5/16 in	OSG	**33YX01**
3/8"-16	1 1/4 in	10 in	5/16 in	OSG	**33YX02**
7/16"-14	1 27/64 in	6 in	U	OSG	**33YX03**
7/16"-14	1 27/64 in	8 in	U	OSG	**33YX04**
1/2"-13	1 21/32 in	6 in	27/64 in	OSG	**33YX05**
1/2"-13	1 21/32 in	8 in	27/64 in	OSG	**33YX06**
1/2"-13	1 21/32 in	10 in	27/64 in	OSG	**33YX07**
1/2"-13	1 21/32 in	12 in	27/64 in	OSG	**33YX08**
5/8"-11	1 51/64 in	6 in	13.60 mm	OSG	**33YX09**
5/8"-11	1 51/64 in	8 in	13.60 mm	OSG	**33YX10**
5/8"-11	1 51/64 in	10 in	13.60 mm	OSG	**33YX11**
5/8"-11	1 51/64 in	12 in	13.60 mm	OSG	**33YX12**
3/4"-10	2 in	10 in	16.50 mm	OSG	**33YX13**
3/4"-10	2 in	12 in	16.50 mm	OSG	**33YX14**
Bright (Uncoated)					
5/16"-18	1 1/8 in	2 23/32 in	F	Regal Cutting Tools	**39TA79**
1/2"-13	1 21/32 in	6 in	27/64 in	Regal Cutting Tools	**39TA82**

Extension Taps

- Right-hand thread direction

Extension taps have long shanks that let them tap deep or hard-to-reach holes. They create internal threads in holes, and their reduced-diameter shank clears the hole when tapping a hole at a depth that is greater than the taps' thread length.

Thread Size	Thread Length	Overall Length	75% Thread Drill Size	Item No.
Black Oxide Finish, High-Performance Spiral Point				
UNC, 2 Flute				
#4-40	9/32 in	4 in	2.30 mm	**2PFH3**
#4-40	9/32 in	6 in	2.20 mm	**33XW06**
#6-32	23/64 in	4 in	#34	**2PFH4**
#6-32	23/64 in	6 in	#34	**2PFH5**
#6-32	3/8 in	6 in	#36	**33YH35**
UNC, 3 Flute				
#10-24	31/64 in	4 in	#23	**2PFH8**
#10-24	31/64 in	6 in	#23	**2PFH1**
#8-32	23/64 in	4 in	3.50 mm	**2PFH6**
#8-32	23/64 in	6 in	3.50 mm	**2PFH7**
1/4"-20	19/32 in	4 in	#5	**2PFK3**
1/4"-20	19/32 in	6 in	#5	**2PFJ2**
5/16"-18	21/32 in	6 in	17/64 in	**2PFJ4**
3/8"-16	3/4 in	6 in	P	**2PFJ5**
3/8"-16	59/64 in	6 in	5/16 in	**33YH49**
7/16"-14	27/32 in	6 in	V	**2PFJ6**
1/2"-13	29/32 in	6 in	11.00 mm	**2PFJ7**
5/8"-11	1 5/64 in	6 in	13.90 mm	**2PFJ8**
UNF, 3 Flute				
#10-32	31/64 in	4 in	4.15 mm	**2PFH9**
#10-32	31/64 in	6 in	4.15 mm	**2PFJ1**
1/4"-28	19/32 in	6 in	7/32 in	**2PFH2**
7/16"-20	27/32 in	6 in	10.00 mm	**2PFK2**
1/2"-20	29/32 in	6 in	11.60 mm	**2PFJ3**
TiCN-Coated, High-Performance Spiral Point				
Metric Coarse, 3 Flute				
M10x1.5	18.00 mm	150.00 mm	8.50 mm	**54LJ96**
M14x2	24.00 mm	150.00 mm	12.00 mm	**54LK05**
M16x2	24.00 mm	160.00 mm	14.00 mm	**54LK10**
M24x3	35.00 mm	200.00 mm	53/64 in	**54LK26**
M4x0.7	8.00 mm	100.00 mm	3.30 mm	**54ML86**
M5x0.8	9.00 mm	125.00 mm	4.22 mm	**54LJ85**
M6x1	11.00 mm	150.00 mm	5.00 mm	**54LJ89**
M8x1.25	15.00 mm	150.00 mm	H	**54LJ92**
Metric Fine, 3 Flute				
M10x1	18.00 mm	150.00 mm	9.00 mm	**54LJ94**
M10x1.25	18.00 mm	150.00 mm	11/32 in	**54LJ95**
M12x1	21.00 mm	180.00 mm	11.00 mm	**54LJ97**
M12x1.5	21.00 mm	180.00 mm	10.50 mm	**54LJ99**
M5x0.5	9.00 mm	125.00 mm	#16	**54LJ84**
Metric Fine, 4 Flute				
M18x2	29.00 mm	180.00 mm		**54LK13**
UNC, 3 Flute				
#10-24	9/16 in	4 29/32 in	#25	**54ML57**
#8-32	7/16 in	4 23/32 in	3.40 mm	**54ML55**
1/4"-20	45/64 in	5 57/64 in	#7	**54ML61**
5/16"-18	51/64 in	5 57/64 in	F	**54ML63**
7/16"-14	27/32 in	5 57/64 in	U	**54ML67**
1/2"-13	29/32 in	7 5/64 in	27/64 in	**54ML69**
5/8"-11	1 5/64 in	7 5/64 in	13.60 mm	**54ML73**
3/4"-10	1 3/16 in	7 55/64 in	16.50 mm	**54ML75**
UNF, 3 Flute				
#10-32	37/64 in	5 57/64 in	#21	**54ML58**
3/8"-24	59/64 in	5 57/64 in	8.50 mm	**54ML66**
7/16"-20	27/32 in	5 57/64 in	9.95 mm	**54ML68**
1/2"-20	29/32 in	7 5/64 in	11.40 mm	**54ML70**
5/8"-18	1 5/64 in	7 5/64 in	14.50 mm	**54ML74**
3/4"-16	1 3/16 in	7 55/64 in	17.50 mm	**54ML76**
1"-12	1 1/2 in	7 55/64 in	23.30 mm	**54ML80**
TiCN-Coated High-Performance Spiral Flute				
Metric Coarse, 3 Flute				
M10x1.5	12.00 mm	150.00 mm	11/32 in	**54MJ63**
M12x1.75	14.00 mm	180.00 mm	10.30 mm	**54MJ67**
M16x2	16.00 mm	180.00 mm	14.00 mm	**54MJ76**
M6x1	7.00 mm	150.00 mm	0.2189 in	**54MJ56**
M8x1.25	10.00 mm	150.00 mm	I	**54MJ59**
Metric Coarse, 4 Flute				
M20x2.5	25.00 mm	200.00 mm	17.50 mm	**54MJ82**
M24x3	30.00 mm	200.00 mm	53/64 in	**54MJ92**
Metric Fine, 3 Flute				
M14x1.5	16.00 mm	150.00 mm	12.50 mm	**54MJ70**
M15x1	12.00 mm	160.00 mm		**54MJ72**
M8x1	10.00 mm	150.00 mm	9/32 in	**54MJ58**
Metric Fine, 4 Flute				
M18x1.5	16.00 mm	180.00 mm	16.50 mm	**54MJ78**
UNC, 2 Flute				
#8-32	1/4 in	4 23/32 in	3.40 mm	**54MJ17**
1/4"-20	25/64 in	5 57/64 in	#7	**54MJ23**
UNC, 3 Flute				
3/8"-16	1/2 in	5 57/64 in	5/16 in	**54MJ27**
1/2"-13	39/64 in	7 5/64 in	27/64 in	**54MJ31**
9/16"-12	21/32 in	7 5/64 in	12.20 mm	**54MJ33**
UNC, 4 Flute				
3/4"-10	1 in	7 55/64 in	16.50 mm	**54MJ37**
UNF, 2 Flute				
#10-32	5/16 in	5 57/64 in	#21	**54MJ20**
UNF, 3 Flute				
9/16"-18	21/32 in	7 5/64 in	12.90 mm	**54MJ34**

Black Oxide Finish, High-Performance Spiral Point 2PFH8

TiCN-Coated, High-Performance Spiral Point, Metric Coarse, 3 Flute 54LJ96

TiCN-Coated High-Performance Spiral Flute 54MJ63

Additional tap sizes, materials, and coatings are available on Grainger.com®.

Pipe and Conduit Thread Taps

- Right-hand thread direction

Pipe and conduit thread taps create or repair internal threads in pipe, conduit, and fittings so they can mate with parts that have matching external threads.

High Speed Steel
NPS
15K060

Hight Speed Steel
NPTF
15K041

No. of Flutes	Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Carbon Steel BSPT (R/Rc/Rp)						
4	⅛"-28	¾ in	2 ⅛ in	Taper	Irwin Hanson	**19T150**
Carbon Steel NPT						
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**2LXR3**
4	⅛"-27	¾ in	2 ⅛ in	Taper	Ridgid	**38HY54**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Westward	**2LXR4**
4	⅜"-18	1 1/16 in	2 9/16 in	Taper	Ridgid	**38HY55**
4	1"-11 ½	1 ¾ in	3 ¾ in	Taper	Ridgid	**38HY57**
4	1¼"-11 ½	1 ¾ in	4 1/16 in	Taper	Ridgid	**38HY58**
5	¾"-14	1 ⅜ in	3 ¼ in	Taper	Ridgid	**38HY56**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Taper	Ridgid	**38HY59**
Cobalt NPT						
4	⅛"-27	¾ in	2 7/64 in	Modified Bottom, Semi-Bottom	OSG	**6VYK0**
4	¼"-18	1 3/64 in	2 27/64 in	Modified Bottom, Semi-Bottom	OSG	**6VYK1**
4	⅜"-18	1 3/64 in	2 35/64 in	Modified Bottom, Semi-Bottom	OSG	**6VYK2**
4	½"-14	1 23/64 in	3 7/64 in	Modified Bottom, Semi-Bottom	OSG	**6VYK3**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**6VYK4**
High Speed Steel BSPP (G)						
4	¼"-19	1 3/64 in	2 7/16 in	Plug	—	**11V273**
4	½"-14	1 ⅜ in	3 ⅛ in	Taper	—	**36UV97**
4	¾"-14	26.00 mm	140.00 mm	Plug	Walter Prototyp	**429C08**
4	1¼"-11	28.00 mm	170.00 mm	Plug	Walter Prototyp	**429C02**
6	2½"-11	1 31/64 in	10 13/16 in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427G11**
High Speed Steel BSPT (R/Rc/Rp)						
4	⅛"-28	¾ in	2 ⅛ in	Taper	—	**10D319**
4	¼"-19	13/16 in	3 59/64 in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427F99**
4	⅜"-19	13/16 in	3 59/64 in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427G03**
4	½"-14	15/16 in	4 29/32 in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427F98**
4	¾"-14	1 1/64 in	5 ½ in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427G02**
4	1"-11	1 3/32 in	6 19/64 in	Modified Bottom, Semi-Bottom	Walter Prototyp	**427F96**
5	¾"-14	1 ⅜ in	3 ¼ in	Taper	—	**36UW01**
High Speed Steel NPS						
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Greenfield Threading	**15K060**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Cleveland	**435W92**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAJ3**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAJ4**
5	1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	**2WAH9**
High Speed Steel NPT						
2	⅛"-27	9.70 mm	50.80 mm	Taper	Widia GTD	**2XUK8**
2	¼"-18	14.80 mm	49.30 mm	Taper	Widia GTD	**2XUK9**
3	¼"-18	17.40 mm	69.09 mm	Taper	Widia GTD	**2XUL6**
3	½"-14	23.75 mm	85.85 mm	Taper	Widia GTD	**2XUL2**
3	¾"-14	18.92 mm	74.68 mm	Taper	Widia GTD	**2XUL3**
4	1/16"-27	11/16 in	2 ⅛ in	Semi-Bottom	Greenfield Threading	**15K021**
4	1/16"-27	11/16 in	2 ⅛ in	Semi-Bottom	Cleveland	**435W60**
4	1/16"-27	11/16 in	2 ⅛ in	Semi-Bottom	Westward	**5TWT5**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	**15K022**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	**15K023**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**2LWT6**
4	⅛"-27	¾ in	2 7/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAF4**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Cleveland	**435W61**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Cleveland	**435W62**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**5PXH0**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**5PXH1**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**5TWT6**
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Westward	**5TWT7**
4	⅛"-27	14.00 mm	90.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427V80**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Westward	**2LWT7**
4	¼"-18	1 3/64 in	2 27/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAF1**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Cleveland	**435W63**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Westward	**5TWT8**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Westward	**5TWY0**
4	¼"-18	20.00 mm	100.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427V79**
4	⅜"-18	1 1/16 in	2 9/16 in	Semi-Bottom	Greenfield Threading	**15K025**
4	⅜"-18	1 3/64 in	2 35/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAE8**
4	⅜"-18	1 1/16 in	2 9/16 in	Semi-Bottom	Cleveland	**435W64**
4	⅜"-18	1 1/16 in	2 9/16 in	Semi-Bottom	Westward	**5PXH3**
4	⅜"-18	1 1/16 in	2 9/16 in	Semi-Bottom	Westward	**5TWT9**
4	⅜"-18	1 1/16 in	2 9/16 in	Semi-Bottom	Westward	**5TWY1**
4	½"-14	11/16 in	3 ⅛ in	Semi-Bottom	Westward	**5TWY2**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Greenfield Threading	**15K026**
4	½"-14	1 23/64 in	3 7/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAF8**
4	½"-14	1 23/64 in	3 7/64 in	Modified Bottom, Semi-Bottom	OSG	**33ZL86**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Greenfield Threading	**407D20**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Cleveland	**435W65**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Cle-Line	**50AP49**
4	½"-14	1 ⅝ in	3 19/64 in	Standard	Widia GTD	**53MK05**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Westward	**5PXH4**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Westward	**5TWX1**
5	½"-14	26.00 mm	125.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427V78**
5	¾"-14	29/32 in	3 ¼ in	Semi-Bottom	Westward	**5TWX2**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAF9**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAG1**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Greenfield Threading	**407D21**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Cleveland	**435W66**
5	¾"-14	1 ⅜ in	3 ⅝ in	Semi-Bottom	Cle-Line	**50AP55**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Westward	**5PXH5**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Westward	**5TWU1**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Westward	**5TWY3**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Greenfield Threading	**15K028**
5	1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	**2WAG2**
5	1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	**33ZL90**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Cleveland	**435W67**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Cle-Line	**50AP53**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Westward	**5TWU2**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Westward	**5TWX3**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Westward	**5TWY4**
5	1¼"-11 ½	1 ¾ in	4 in	Semi-Bottom	Greenfield Threading	**15K029**
5	1¼"-11 ½	1 ¾ in	4 in	Modified Bottom, Semi-Bottom	OSG	**2WAF7**
5	1¼"-11 ½	1 ¾ in	4 in	Semi-Bottom	Greenfield Threading	**407D24**
5	1¼"-11 ½	1 ¾ in	4 in	Semi-Bottom	Cleveland	**435W68**
5	1¼"-11 ½	1 ¾ in	4 in	Semi-Bottom	Westward	**5TWU3**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Greenfield Threading	**15K030**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAG6**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Greenfield Threading	**407D25**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Cleveland	**435W69**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Modified Bottom, Semi-Bottom	OSG	**4CYE6**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Westward	**5PXH8**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Westward	**5TWU4**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Semi-Bottom	Westward	**5TWX5**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Greenfield Threading	**15K031**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Greenfield Threading	**407D26**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Cleveland	**435W70**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Westward	**5PXH9**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Westward	**5TWU5**
7	2"-11 ½	1 ¾ in	4 ½ in	Semi-Bottom	Westward	**5TWX6**
High Speed Steel NPTF						
4	⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	**15K041**
4	⅛"-27	¾ in	2 7/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAJ7**
4	⅛"-27	¾ in	2 7/64 in	Modified Bottom, Semi-Bottom	OSG	**4CYG2**
4	¼"-18	1 1/16 in	2 7/16 in	Semi-Bottom	Greenfield Threading	**15K042**
4	¼"-18	1 3/64 in	2 27/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAJ9**
4	⅜"-18	1 3/64 in	2 35/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAK2**
4	⅜"-18	1 3/64 in	2 35/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAK5**
4	½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Greenfield Threading	**15K044**
4	½"-14	1 23/64 in	3 7/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAK9**
4	½"-14	1 23/64 in	3 7/64 in	Modified Bottom, Semi-Bottom	OSG	**2WAL1**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAK6**
5	¾"-14	1 23/64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	**2WAK8**
5	¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Cleveland	**435W77**
5	1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Greenfield Threading	**15K039**
7	1½"-11 ½	1 ¾ in	4 ¼ in	Modified Bottom, Semi-Bottom	OSG	**4CYG4**
7	2"-11 ½	1 ¾ in	4 ½ in	Modified Bottom, Semi-Bottom	OSG	**4CYG5**

Additional tap sizes, materials, and coatings are available on Grainger.com®.

Interrupted-Thread Pipe and Conduit Thread Taps

NPT, 3 Flute
33ZL63

- Right-hand thread direction

These taps have an interrupted thread pattern in which every other tooth has been removed from the cutting edge. They offer more space for chip evacuation than taps with a standard thread pattern, which allows large chips to be cleared from the taps during threading tasks.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
ANPT, NPT, 5 Flutes					
⅛"-27	¾ in	2 ⅛ in	Standard	Widia GTD	4CPK9
⅛"-27	¾ in	2 ⅛ in	Standard	Widia GTD	4CPK8
⅛"-27	¾ in	2 ⅛ in	Standard	Widia GTD	53MJ24
¼"-18	1 1⁄16 in	2 7⁄16 in	Standard	Widia GTD	4CPL3
⅜"-18	1 13⁄16 in	2 9⁄16 in	Standard	Widia GTD	53MJ21
½"-14	1 21⁄32 in	3 ⅛ in	Standard	Widia GTD	53MJ20
¾"-14	1 ⅜ in	3 ¼ in	Standard	Widia GTD	53MJ19
1"-11 ½	1 ¾ in	3 ¾ in	Standard	Widia GTD	4CPN2
1¼"-11 ½	1 ¾ in	4 in	Standard	Widia GTD	4CPN4
ANPT, NPT, 7 Flutes					
1½"-11 ½	3 in	4 ¼ in	Standard	Widia GTD	4CPN5
NPT, 3 Flutes					
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZL63
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZL64
¼"-18	1 3⁄64 in	2 7⁄16 in	Modified Bottom, Semi-Bottom	OSG	33ZL65
NPT, 4 Flutes					
½"-14	1 ⅜ in	3 ⅛ in	Bottom	Widia GTD	4CPL9
½"-14	1 ⅜ in	3 ⅛ in	Plug	Widia GTD	4CPL5
NPT, 5 Flutes					
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCE2
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCD8
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZM31
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	4CYH8
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCD7
⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	15K047
⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Cleveland	435W79
¼"-18	1 1⁄16 in	2 27⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCD9
¼"-18	1 1⁄16 in	2 27⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCD4
¼"-18	1 1⁄16 in	2 27⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCE1
¼"-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottom	Greenfield Threading	15K048
¼"-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottom	Cleveland	435W80
¼"-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottom	Cle-Line	50AP65
⅜"-18	1 3⁄64 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZL66
⅜"-18	1 1⁄16 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCC4
⅜"-18	1 1⁄16 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCD1
⅜"-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottom	Greenfield Threading	15K049
⅜"-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottom	Cleveland	435W81
½"-14	1 23⁄64 in	3 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCC5
½"-14	1 23⁄64 in	3 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCC7
½"-14	1 23⁄64 in	3 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCC6
½"-14	1 23⁄64 in	3 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZL67
½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Greenfield Threading	15K050
½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Cleveland	435W82
½"-14	1 21⁄32 in	3 ⅛ in	Standard	Widia GTD	4CPL7
¾"-14	1 23⁄64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	2WCD2
¾"-14	1 23⁄64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	4CYJ1
¾"-14	1 23⁄64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	2WCC8
¾"-14	1 23⁄64 in	3 ¼ in	Modified Bottom, Semi-Bottom	OSG	33ZL68
¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Greenfield Threading	15K051
¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Cleveland	435W83
¾"-14	1 ⅜ in	3 ⅝ in	Semi-Bottom	Cle-Line	50AP69
1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	33ZM32
1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	2WCD3
1"-11 ½	1 ¾ in	3 ¾ in	Modified Bottom, Semi-Bottom	OSG	2WCD5
1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Greenfield Threading	15K052
1"-11 ½	1 ¾ in	3 ¾ in	Semi-Bottom	Cleveland	435W84
1¼"-11 ½	1 ¾ in	4 in	Modified Bottom, Semi-Bottom	OSG	4CYJ2
1¼"-11 ½	1 ¾ in	4 in	Semi-Bottom	Cle-Line	50AP63
NPT, 7 Flutes					
1½"-11 ½	1 ¾ in	4 ¼ in	Modified Bottom, Semi-Bottom	OSG	4CYJ4
2"-11 ½	1 ¾ in	4 ½ in	Modified Bottom, Semi-Bottom	OSG	4CYJ6
NPTF, 3 Flutes					
¼"-18	1 3⁄64 in	2 7⁄16 in	Modified Bottom, Semi-Bottom	OSG	33ZL72
NPTF, 4 Flutes					
⅜"-18	1 ⅜ in	3 ⅛ in	Bottom	Widia GTD	4CPL6
½"-14	1 ⅜ in	3 ⅛ in	Plug	Widia GTD	4CPL8
NPTF, 5 Flutes					
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZM36
⅛"-27	¾ in	2 7⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZM37
⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	407D28
⅛"-27	¾ in	2 ⅛ in	Semi-Bottom	Greenfield Threading	15K054
⅛"-27	¾ in	2 ⅛ in	Standard	Widia GTD	4CPL2
⅛"-27	¾ in	2 ⅛ in	Standard	Widia GTD	4CPL1
¼"-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottom	Greenfield Threading	407D29
¼"-18	1 1⁄16 in	2 7⁄16 in	Semi-Bottom	Greenfield Threading	15K055
¼"-18	1 1⁄16 in	2 7⁄16 in	Standard	Widia GTD	4CPL4
⅜"-18	1 3⁄64 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZL73
⅜"-18	1 1⁄16 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	2WCC9
⅜"-18	1 1⁄16 in	2 35⁄64 in	Modified Bottom, Semi-Bottom	OSG	33ZM24
⅜"-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottom	Greenfield Threading	407D30
⅜"-18	1 1⁄16 in	2 9⁄16 in	Semi-Bottom	Greenfield Threading	15K056
½"-14	1 ⅜ in	3 ⅛ in	Semi-Bottom	Greenfield Threading	407D31
¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Cleveland	435W90
¾"-14	1 ⅜ in	3 ¼ in	Semi-Bottom	Greenfield Threading	407D32
¾"-14	1 ⅜ in	3 ¼ in	Standard	Widia GTD	4CPN1
1"-11 ½	1 ¾ in	3 ¾ in	Standard	Widia GTD	4CPN3

Short-Projection Pipe and Conduit Thread Taps

NPT, 5 Flute
33ZM72

- Right-hand flute direction
- High-speed steel material

These taps have fewer tapered threads at their tip than standard pipe and conduit taps. They don't have to enter deep into the workpiece to produce full threads and are suitable for tapping shallow holes.

Thread Size	Thread Length	Overall Length	Item No.
NPT, 4 Flutes			
Bright Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM48
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM54
⅜"-18	1 3⁄64 in	2 35⁄64 in	33PD20
½"-14	1 23⁄64 in	3 7⁄64 in	33PD21
Steam Oxide Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM49
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM58
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM55
⅜"-18	1 3⁄64 in	2 35⁄64 in	33ZM60
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM65
TiCN Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM50
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM56
⅜"-18	1 3⁄64 in	2 35⁄64 in	33ZM61
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM66
NPT, 5 Flutes			
Bright Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM70
1"-11 ½	1 ¾ in	3 ¾ in	33ZM76
Steam Oxide Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM71
1"-11 ½	1 ¾ in	3 ¾ in	33ZM77
TiCN Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM72
1"-11 ½	1 ¾ in	3 ¾ in	33ZM78
NPTF, 4 Flutes			
Bright Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM51
⅛"-27	¾ in	2 7⁄64 in	33ZM82
⅛"-27	¾ in	2 7⁄64 in	33ZM87
¼"-18	1 1⁄16 in	2 27⁄64 in	33ZM83
¼"-18	1 1⁄16 in	2 27⁄64 in	33ZM88
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM57
⅜"-18	1 1⁄16 in	2 35⁄64 in	33ZM84
⅜"-18	1 3⁄64 in	2 35⁄64 in	33ZM62
⅜"-18	1 1⁄16 in	2 35⁄64 in	33ZM89
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM90
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM67
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM85
Steam Oxide Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM52
⅜"-18	1 3⁄64 in	2 35⁄64 in	33ZM63
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM68
TiCN Finish			
⅛"-27	¾ in	2 7⁄64 in	33ZM53
¼"-18	1 3⁄64 in	2 27⁄64 in	33ZM59
⅜"-18	1 3⁄64 in	2 35⁄64 in	33ZM64
½"-14	1 23⁄64 in	3 7⁄64 in	33ZM69
NPTF, 5 Flutes			
Bright Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM73
¾"-14	1 23⁄64 in	3 ¼ in	33ZM86
1"-11 ½	1 ¾ in	3 ¾ in	33ZM79
Steam Oxide Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM74
1"-11 ½	1 ¾ in	3 ¾ in	33ZM80
TiCN Finish			
¾"-14	1 23⁄64 in	3 ¼ in	33ZM75
1"-11 ½	1 ¾ in	3 ¾ in	33ZM81

For more information on taps, see page 2261.

Bright (Uncoated) High Speed Steel Spiral Flute, UNC, 2 Flutes
33ZJ83

Screw Thread Insert (STI) Taps

STI taps create an oversized thread inside a hole so that a helical-coil screw thread insert can be installed in the hole. The insert distributes the load across the length of the threads and improves the threads' strength when a fastener with a standard screw thread size is screwed into the hole.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Bright (Uncoated) High Speed Steel Pipe					
NPT, 4 Flutes					
⅛"-27	1 1/16 in	2 7/16 in	Taper	Heli-Coil	**4EYP2**
¼"-18	1 1/16 in	2 ½ in	Taper	Heli-Coil	**4EYN8**
⅜"-18	1 ⅜ in	3 ⅛ in	Taper	Heli-Coil	**4EYT5**
Bright (Uncoated) High Speed Steel Spiral Flute					
Metric Coarse, 3 Flutes					
M10x1.5	15.00 mm	85.00 mm	Modified Bottoming	OSG	**33ZF67**
M8x1.25	12.00 mm	74.00 mm	Modified Bottoming	OSG	**33ZF66**
Metric Coarse, 4 Flutes					
M20x2.5	25.00 mm	124.00 mm	Modified Bottoming	OSG	**33ZF72**
M22x2.5	25.00 mm	130.00 mm	Modified Bottoming	OSG	**33ZF73**
M24x3	30.00 mm	138.00 mm	Modified Bottoming	OSG	**33ZF74**
UNC, 3 Flutes					
¼"-20	½ in	2 23/32 in	Bottoming	OSG	**33ZF45**
¼"-20	½ in	2 23/32 in	Bottoming	OSG	**33ZF44**
¼"-20	8.00 mm	90.00 mm	Plug	Walter Prototyp	**428Z40**
5/16"-18	35/64 in	2 15/16 in	Bottoming	OSG	**33ZF48**
⅜"-16	⅝ in	3 23/64 in	Bottoming	OSG	**33ZF51**
UNC, 4 Flutes					
½"-13	49/64 in	3 13/16 in	Bottoming	OSG	**33ZF58**
9/16"-12	53/64 in	4 1/32 in	Bottoming	OSG	**33ZF17**
⅝"-11	29/32 in	4 ¼ in	Bottoming	OSG	**33ZF21**
⅞"-9	1 7/64 in	5 ⅛ in	Bottoming	OSG	**33ZF29**
1"-8	1 ¼ in	5 ¾ in	Bottoming	OSG	**33ZF34**
UNF, 3 Flutes					
#10-32	13/32 in	2 ½ in	Bottoming	OSG	**33ZF42**
¼"-28	½ in	2 23/32 in	Bottoming	OSG	**33ZF46**
5/16"-24	35/64 in	2 15/16 in	Bottoming	OSG	**33ZF50**
7/16"-20	45/64 in	3 23/64 in	Bottoming	OSG	**33ZF56**
UNF, 4 Flutes					
½"-20	49/64 in	3 37/64 in	Bottoming	OSG	**33ZF16**
9/16"-18	53/64 in	3 13/16 in	Bottoming	OSG	**33ZF19**
⅝"-18	29/32 in	4 1/32 in	Bottoming	OSG	**33ZF24**
Bright (Uncoated) High Speed Steel Spiral Point					
EGUNF, 4 Flutes					
½"-20	21.00 mm	100.00 mm	Plug	Walter Prototyp	**429A08**
Metric Coarse, 2 Flutes					
M2.5x0.45	8.00 mm	49.00 mm	Plug	OSG	**33ZK06**
M2x0.4	6.00 mm	46.00 mm	Plug	OSG	**33ZK05**
M4x0.7	13.00 mm	60.00 mm	Plug	OSG	**33ZK08**
Metric Coarse, 3 Flutes					
M10x1.5	23.00 mm	85.00 mm	Plug	OSG	**33ZK12**
M12x1.75	25.00 mm	91.00 mm	Plug	OSG	**33ZK13**
M20x2.5	33.00 mm	124.00 mm	Plug	OSG	**33ZK17**
M5x0.8	15.00 mm	80.00 mm	Plug	Walter Prototyp	**426T09**
M6x1	17.00 mm	69.00 mm	Plug	OSG	**33ZK10**
M8x1.25	19.00 mm	74.00 mm	Plug	OSG	**33ZK11**

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
UNC, 2 Flutes					
#10-24	⅝ in	2 ½ in	Plug	OSG	**33ZJ83**
#2-56	5/16 in	1 ⅞ in	Plug	OSG	**33ZJ89**
UNC, 3 Flutes					
#10-24	15.00 mm	80.00 mm	Plug	Walter Prototyp	**428Z13**
¼"-20	11/16 in	2 23/32 in	Plug	OSG	**33ZJ87**
¼"-20	18.00 mm	90.00 mm	Plug	Walter Prototyp	**428Z12**
¼"-20	19.00 mm	69.00 mm	Plug	Walter Prototyp	**427L38**
½"-13	1 5/64 in	3 13/16 in	Plug	OSG	**33ZJ57**
⅝"-11	1 7/32 in	4 ¼ in	Plug	OSG	**33ZJ65**
UNF, 3 Flutes					
9/16"-18	1 5/64 in	3 13/16 in	Plug	OSG	**33ZJ63**
⅞"-14	1 ½ in	5 ⅛ in	Plug	OSG	**33ZJ75**
Bright (Uncoated) High Speed Steel Straight Flute (Hand)					
Metric Coarse, 3 Flutes					
M3.5x0.6	19.00 mm	53.00 mm	Plug	Heli-Coil	**4EYX4**
M3x0.5	17.00 mm	51.00 mm	Plug	Heli-Coil	**4EYX5**
M4x0.7	22.22 mm	60.32 mm	Plug	Heli-Coil	**4EYX8**
M5x0.8	25.40 mm	64.00 mm	Plug	Heli-Coil	**4EYY1**
M6x1	14.00 mm	69.00 mm	Modified Bottoming	OSG	**33ZL38**
M6x1	34.00 mm	69.00 mm	Plug	Heli-Coil	**4EYY3**
Metric Coarse, 4 Flutes					
M10x1.5	42.00 mm	86.00 mm	Plug	Heli-Coil	**4EYV9**
M10x1.5	42.00 mm	86.00 mm	Plug	Heli-Coil	**4EYV8**
M12x1.75	42.07 mm	91.28 mm	Plug	Heli-Coil	**4EYW5**
M16x2	50.80 mm	107.95 mm	Plug	Heli-Coil	**4EYW8**
M20x2.5	56.36 mm	124.62 mm	Plug	Heli-Coil	**4EYX2**
M22x2.5	35.00 mm	130.00 mm	Modified Bottoming	OSG	**33ZL46**
M24x3	65.09 mm	138.11 mm	Plug	Heli-Coil	**4EYX3**
M8x1.25	17.00 mm	74.00 mm	Modified Bottoming	OSG	**33ZL39**
M8x1.25	31.75 mm	74.61 mm	Plug	Heli-Coil	**4EYY8**
Metric Fine, 4 Flutes					
M10x1.25	42.00 mm	86.00 mm	Plug	Heli-Coil	**4EYV7**
M14x1.50	46.04 mm	96.84 mm	Plug	Heli-Coil	**4EYW6**
UNC, 3 Flutes					
#10-24	1 in	2 ½ in	Plug	Heli-Coil	**4EYP3**
#2-56	9/16 in	1 ⅞ in	Plug	Heli-Coil	**4EYR9**
#8-32	15/16 in	2 ⅜ in	Plug	Heli-Coil	**4EYN3**
¼"-20	¾ in	2 23/32 in	Bottoming	OSG	**33ZL18**
¼"-20	1 ⅛ in	2 23/32 in	Plug	Heli-Coil	**4EYN9**
UNC, 4 Flutes					
5/16"-18	1 ¼ in	2 15/16 in	Plug	Heli-Coil	**4EYU1**
⅜"-16	59/64 in	3 23/64 in	Bottoming	OSG	**33ZK93**
⅜"-16	1 21/32 in	3 ⅜ in	Plug	Heli-Coil	**4EYT4**
½"-13	1 13/16 in	3 13/16 in	Plug	Heli-Coil	**4EYN5**
9/16"-12	1 13/16 in	4 1/32 in	Plug	Heli-Coil	**4EYV3**
⅝"-11	1 17/64 in	4 ¼ in	Bottoming	OSG	**33ZK43**
⅝"-11	2 in	4 ¼ in	Plug	Heli-Coil	**4EYU3**
1"-8	2 9/16 in	5 ¾ in	Plug	Heli-Coil	**4EYR7**
1¼"-7	3 in	6 ⅜ in	Plug	Heli-Coil	**4EYP8**
UNC, 6 Flutes					
1⅜"-6	3 3/16 in	6 11/16 in	Plug	Heli-Coil	**4EYR6**
1½"-6	3 3/16 in	7 in	Plug	Heli-Coil	**4EYP6**
UNF, 4 Flutes					
9/16"-18	1 13/16 in	3 13/16 in	Plug	Heli-Coil	**4EYV4**
1"-12	1 ¾ in	5 7/16 in	Bottoming	OSG	**33ZK73**
1"-12	2 9/16 in	5 7/16 in	Plug	Heli-Coil	**4EYR2**
UNF, 6 Flutes					
1⅛"-12	2 9/16 in	5 ¾ in	Plug	Heli-Coil	**4EYP9**
1¼"-12	3 in	6 1/16 in	Plug	Heli-Coil	**4EYP7**

General Purpose Spiral-Flute Taps

UNC, 2 Flutes
2VZY9

- Right-hand thread direction

General purpose spiral-flute taps create internal threads in blind holes and are intended for threading a wide range of materials.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Metric, 2 Flutes					
M3x0.5	7.87 mm	49.28 mm	Plug	Cleveland	**435V62**
Metric Coarse, 2 Flutes					
M3x0.5	7.95 mm	49.28 mm	Bottom	Widia GTD	**13X334**
Metric Coarse, 3 Flutes					
M12x1.75	1 21/32 in	3 ⅜ in	Bottom	OSG	**2LYD5**
M12x1.75	23.75 mm	85.85 mm	Bottom	Widia GTD	**13X322**
M16x2	32.00 mm	95.00 mm	Modified Bottom, Semi-Bottom	OSG	**33XR16**
UNC, 2 Flutes					
#6-32	⅜ in	2 in	Bottom	OSG	**2VZY9**
#6-32	⅜ in	2 in	Plug	Widia GTD	**1TRJ4**
#6-32	⅜ in	2 in	Plug	OSG	**2WAC8**
UNC, 3 Flutes					
#10-24	½ in	2 11/32 in	Bottom	OSG	**2VZZ3**
#10-24	½ in	2 ⅜ in	Plug	Widia GTD	**1TRJ6**
#10-24	½ in	2 11/32 in	Plug	OSG	**2VZY7**
#8-32	⅜ in	2 ⅛ in	Bottom	Widia GTD	**1TRK6**
#8-32	⅜ in	2 3/32 in	Bottom	OSG	**2VZZ2**
#8-32	⅜ in	2 3/32 in	Plug	OSG	**2VZZ1**
½"-13	⅞ in	3 ⅜ in	Plug	Widia GTD	**1TRK3**
½"-13	15/16 in	3 ⅜ in	Bottom	Greenfield Threading	**15J968**
½"-13	15/16 in	3 11/32 in	Bottom	OSG	**2WAC5**
½"-13	15/16 in	3 11/32 in	Bottom	OSG	**2WAE4**
½"-13	15/16 in	3 ⅜ in	Bottom	Cleveland	**435V59**
½"-13	15/16 in	3 11/32 in	Plug	OSG	**4CYE4**
½"-13	1 21/32 in	3 ⅜ in	Bottom	OSG	**2LYC8**
¼"-20	⅝ in	2 ½ in	Bottom	Greenfield Threading	**15J962**

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
¼"-20	⅝ in	2 ½ in	Bottom	Widia GTD	**1TRK9**
¼"-20	⅝ in	2 ½ in	Bottom	OSG	**2VZX9**
¼"-20	⅝ in	2 ½ in	Bottom	OSG	**2WAE2**
¼"-20	⅝ in	2 ½ in	Plug	Greenfield Threading	**15J949**
¼"-20	⅝ in	2 ½ in	Plug	Widia GTD	**1TRJ8**
¼"-20	⅝ in	2 ½ in	Plug	OSG	**2VZX6**
¼"-20	⅝ in	2 ½ in	Plug	OSG	**4CYE2**
¼"-20	1 in	2 ½ in	Bottom	OSG	**2LYA7**
⅜"-16	11/16 in	2 15/16 in	Plug	Widia GTD	**1TRK2**
⅜"-16	¾ in	2 15/16 in	Bottom	Greenfield Threading	**15J966**
⅜"-16	¾ in	2 29/32 in	Bottom	OSG	**2WAC2**
⅜"-16	¾ in	2 15/16 in	Plug	Greenfield Threading	**15J953**
⅜"-16	¾ in	2 29/32 in	Plug	OSG	**2VZY8**
5/16"-18	⅝ in	2 23/32 in	Plug	Widia GTD	**1TRK1**
5/16"-18	11/16 in	2 23/32 in	Bottom	OSG	**2VZY3**
5/16"-18	11/16 in	2 23/32 in	Bottom	Cleveland	**435V51**
5/16"-18	11/16 in	2 23/32 in	Plug	Greenfield Threading	**15J951**
5/16"-18	11/16 in	2 23/32 in	Plug	OSG	**2VZX7**
7/16"-14	⅞ in	3 ⅛ in	Bottom	OSG	**2WAC7**
7/16"-14	⅞ in	3 ⅛ in	Plug	OSG	**4CYD7**
UNC, 4 Flutes					
¾"-10	1 3/16 in	4 ¼ in	Bottom	OSG	**2WAA4**
¾"-10	1 3/16 in	4 ¼ in	Plug	OSG	**2WAA3**
¾"-10	1 7/32 in	4 ¼ in	Plug	Widia GTD	**4CPK6**
⅝"-11	1 1/16 in	3 25/32 in	Bottom	OSG	**2VZZ8**
⅝"-11	1 1/16 in	3 25/32 in	Plug	OSG	**2VZZ7**
⅝"-11	1 3/32 in	3 13/16 in	Plug	Widia GTD	**4CPK4**
UNF, 3 Flutes					
#10-32	½ in	2 11/32 in	Bottom	OSG	**2VZZ5**
#10-32	½ in	2 11/32 in	Bottom	OSG	**33XP18**
#10-32	½ in	2 ⅜ in	Bottom	Cleveland	**435V45**
#10-32	½ in	2 ⅜ in	Plug	Widia GTD	**1TRJ7**
#10-32	½ in	2 11/32 in	Plug	OSG	**2VZZ4**
#10-32	⅞ in	2 ⅜ in	Bottom	OSG	**2LYC3**
½"-20	15/16 in	3 11/32 in	Bottom	OSG	**2WAA2**
½"-20	15/16 in	3 11/32 in	Plug	OSG	**4CYD9**
5/16"-24	11/16 in	2 23/32 in	Bottom	OSG	**2VZY5**
7/16"-20	⅞ in	3 ⅛ in	Plug	OSG	**4CYD8**
UNF, 4 Flutes					
¾"-16	1 3/16 in	4 ¼ in	Bottom	OSG	**2WAA6**
⅝"-18	1 1/16 in	3 25/32 in	Bottom	OSG	**2WAA1**
⅝"-18	1 1/16 in	3 25/32 in	Plug	OSG	**2VZZ9**

Additional tap sizes, materials, and coatings are available on Grainger.com®.

Multiple Material Tapping
Metric, 4-Flute
445H31

High-Performance Spiral-Flute Taps

- Right-hand thread direction

High-performance spiral-flute taps create internal threads in blind holes and are harder and more wear-resistant than general purpose spiral-flute taps. They provide better precision and accuracy than general purpose taps when used for threading holes in designated materials.

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.
Multiple Material Tapping						
Metric, 4 Flutes						
M20x2.5	62.99 mm	140.00 mm	6H	High Speed Steel	Cleveland	**435X10**
M24x3	30.00 mm	160.00 mm	6H	High Speed Steel	Widia GTD	**445H21**
M24x3.0	65.99 mm	160.00 mm	6H	High Speed Steel	Cleveland	**435X12**
M30x3.5	35.00 mm	180.00 mm	6H	High Speed Steel	Widia GTD	**445H31**
M36x4	40.00 mm	200.00 mm	6H	High Speed Steel	Widia GTD	**445H35**
Metric Coarse, 3 Flutes						
M10x1.5	11.00 mm	74.00 mm	D6	High Speed Steel	OSG	**2TTG4**
M10x1.5	11.00 mm	74.00 mm	D11	High Speed Steel	OSG	**2TTL7**
M16x2	16.00 mm	96.00 mm	D7	High Speed Steel	OSG	**2TTL3**
M3x0.5	4.00 mm	49.00 mm	D3	High Speed Steel	OSG	**2TTH2**
M5x0.8	6.00 mm	60.00 mm	D4	High Speed Steel	OSG	**2TTH6**
M6x1	8.00 mm	63.00 mm	D5	High Speed Steel	OSG	**2TTJ1**
M6x1	16.00 mm	63.50 mm	D5 / 6H	High Speed Steel	Widia GTD	**11W608**
M8x1.25	10.00 mm	69.00 mm	D5	High Speed Steel	OSG	**2TTF9**
M8x1.25	17.50 mm	68.70 mm	D5 / 6H	High Speed Steel	Widia GTD	**11W605**
Metric Coarse, 4 Flutes						
M20x2.5	19.00 mm	113.00 mm	D8	High Speed Steel	OSG	**2TTK5**
M24x3	24.00 mm	124.00 mm	D8	High Speed Steel	OSG	**2TTL8**
M30x3.5	27.00 mm	138.00 mm	D9	High Speed Steel	OSG	**2TTL9**
Metric Fine, 3 Flutes						
M10x1	11.00 mm	74.00 mm	D5	High Speed Steel	OSG	**2TTF7**
M10x1.25	11.00 mm	74.00 mm	D5	High Speed Steel	OSG	**2TTG1**
M10x1.5	18.00 mm	100.00 mm	6H	High Speed Steel	Widia GTD	**53NG64**
M12x1.25	13.00 mm	85.00 mm	D5	High Speed Steel	OSG	**2TTG6**
M14x1.5	21.00 mm	100.00 mm	6H	High Speed Steel	Widia GTD	**53NG81**
M14x1.5	25.40 mm	91.20 mm	D6 / 6H	High Speed Steel	Widia GTD	**13X379**
M16x1.5	16.00 mm	96.00 mm	D6	High Speed Steel	OSG	**2TTL1**
M8x1	10.00 mm	69.00 mm	D5	High Speed Steel	OSG	**2TTG7**
Metric Fine, 4 Flutes						
M27x1.5	20.00 mm	140.00 mm	6H	High Speed Steel	Widia GTD	**445H23**
M30x1.5	22.00 mm	150.00 mm	6H	High Speed Steel	Widia GTD	**445H27**
M30x2	22.00 mm	150.00 mm	6H	High Speed Steel	Widia GTD	**445H29**
UNC, 3 Flutes						
#10-24	5/16 in	2 11/32 in	H3	High Speed Steel	OSG	**2PJJ1**
#10-24	½ in	2 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**11W497**
#6-32	3/16 in	2 in	H3	High Speed Steel	OSG	**2PJH6**
#8-32	¼ in	2 3/32 in	H3	High Speed Steel	OSG	**2PJH8**
¼"-20	⅜ in	2 ½ in	H3	High Speed Steel	OSG	**2PJK7**
¼"-20	⅜ in	2 ½ in	H5	High Speed Steel	OSG	**2PJR1**
¼"-20	⅜ in	2 ½ in	H7	High Speed Steel	OSG	**2PJR2**
5/16"-18	11/16 in	2 23/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**445C28**
⅜"-16	½ in	2 29/32 in	H3	High Speed Steel	OSG	**2PJL6**
⅜"-16	½ in	2 29/32 in	H5	High Speed Steel	OSG	**2PJT1**
⅜"-16	¾ in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**1W236**
⅜"-16	¾ in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**11W491**
7/16"-14	⅞ in	3 5/32 in	H5 / 2B	High Speed Steel	Widia GTD	**1W240**
½"-13	9/16 in	3 11/32 in	H3	High Speed Steel	OSG	**2PJN4**
½"-13	15/16 in	3 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**445C46**
½"-13	15/16 in	3 ⅜ in	H5 / 2B	High Speed Steel	Widia GTD	**1W244**
UNC, 4 Flutes						
⅝"-11	11/16 in	3 25/32 in	H5	High Speed Steel	OSG	**2PJV2**
¾"-10	¾ in	4 ¼ in	H3	High Speed Steel	OSG	**2PJP3**
¾"-10	1 3/16 in	4 ¼ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**1W252**
1"-8	1 ½ in	5 ⅛ in	H5 / 2B	High Speed Steel	Widia GTD	**11W459**
UNC, 5 Flutes						
1¾"-5	2 ⅜ in	7 in	H7 / 2B	High Speed Steel	Widia GTD	**445F78**
1¾"-5	2 ⅜ in	7 in	H7 / 2B	High Speed Steel	Widia GTD	**53MZ26**
2"-4-1/2	2 ⅛ in	9 13/16 in	2B	High Speed Steel	Widia GTD	**445J30**
Multiple Material Tapping, DIN/ANSI						
Metric Coarse, 3 Flutes						
M12x1.75	40.00 mm	110.00 mm	6H	Cobalt	Cleveland	**45ET63**
M6x1	32.00 mm	80.00 mm	6H	Cobalt	Cleveland	**45ET56**
M8x1.25	35.00 mm	90.00 mm	6H	Cobalt	Cleveland	**45ET59**
Metric Coarse, 4 Flutes						
M16x2	16.00 mm	180.00 mm	D7	High Speed Steel	OSG	**33XK82**
M16x2.0	53.01 mm	110.00 mm	6H	Cobalt	Cleveland	**45ET67**
Metric Coarse, 5 Flutes						
M30x3.5	28.00 mm	180.00 mm	D10	High Speed Steel	OSG	**33XK66**
M30x3.5	28.00 mm	180.00 mm	D10	High Speed Steel	OSG	**33PD33**
M30x3.5	28.00 mm	250.00 mm	D10	High Speed Steel	OSG	**33XL11**
M33x3.5	28.00 mm	180.00 mm	D10	High Speed Steel	OSG	**33XK68**
UNC, 3 Flutes						
¼"-20	⅜ in	3 ⅛ in	2B	High Speed Steel	OSG	**2PHJ9**
¼"-20	1 ¼ in	3 ⅛ in	2B	Cobalt	Cleveland	**45ET32**
⅜"-16	1 11/16 in	3 29/32 in	2B	Cobalt	Cleveland	**45ET36**
½"-13	1 ½ in	4 5/16 in	2B	Cobalt	Cleveland	**45ET40**
UNC, 4 Flutes						
⅝"-11	2 1/16 in	4 5/16 in	2B	Cobalt	Cleveland	**45ET44**
⅞"-9	2 5/16 in	5 ½ in	2B	Cobalt	Cleveland	**45ET48**
1"-8	2 ½ in	5 ½ in	2B	Cobalt	Cleveland	**45ET50**
UNF, 3 Flutes						
⅜"-24	½ in	3 29/32 in	2B	High Speed Steel	OSG	**2PHG9**
½"-20	9/16 in	3 29/32 in	2B	High Speed Steel	OSG	**2PHH5**
UNF, 4 Flutes						
⅝"-18	11/16 in	3 29/32 in	2B	High Speed Steel	OSG	**2PHH4**
1"-12	2 ½ in	6 9/32 in	2B	Cobalt	Cleveland	**45ET51**
Nickel & Titanium Tapping						
UNC, 3 Flutes						
#10-24	7/16 in	2 11/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV87**
#8-32	¼ in	2 3/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW19**
¼"-20	7/16 in	2 ½ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NU56**
5/16"-18	7/16 in	2 23/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW58**
⅜"-16	9/16 in	2 15/16 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW46**
7/16"-14	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV81**
½"-13	¾ in	3 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW24**
½"-13	¾ in	3 ⅜ in	H5 / 2B	High Speed Steel	Widia GTD	**53NV50**
⅝"-11	⅞ in	3 25/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW69**
UNF, 3 Flutes						
#10-32	7/16 in	2 11/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV91**
⅜"-24	9/16 in	2 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NT84**
7/16"-20	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW78**
7/16"-20	11/16 in	3 5/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV10**
½"-20	¾ in	3 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NV51**
½"-20	¾ in	3 ⅜ in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW28**
⅝"-18	1 ¼ in	3 25/32 in	H3 / 3B / 2B	High Speed Steel	Widia GTD	**53NW73**
Steel & Stainless Steel Tapping						
Metric Coarse, 3 Flutes						
M10x1.5	12.00 mm	74.00 mm	D6	High Speed Steel	OSG	**33XH65**
M12x1.75	14.00 mm	85.00 mm	D6	High Speed Steel	OSG	**2PFD7**
M5x0.8	6.00 mm	60.00 mm	D4	High Speed Steel	OSG	**33XH57**
M6x1	8.00 mm	63.00 mm	D5	High Speed Steel	OSG	**2PFD3**
M8x1.25	10.00 mm	69.00 mm	D5	High Speed Steel	OSG	**2PFD5**
Metric Fine, 3 Flutes						
M12x1.25	14.00 mm	85.00 mm	D5	High Speed Steel	OSG	**33XH43**
UNC, 3 Flutes						
#10-24	5/16 in	2 11/32 in	H3	High Speed Steel	OSG	**2PEF1**
#10-24	5/16 in	2 11/32 in	H3	Powdered Metal	OSG	**2PEY3**
#8-32	¼ in	2 3/32 in	H3	High Speed Steel	OSG	**2PED8**
¼"-20	⅜ in	2 ½ in	H3	High Speed Steel	OSG	**2PDY9**
¼"-20	⅜ in	2 ½ in	H3	High Speed Steel	OSG	**2PEF5**
5/16"-18	7/16 in	2 23/32 in	H3	High Speed Steel	OSG	**2PEF9**
⅜"-16	½ in	2 29/32 in	H3	High Speed Steel	OSG	**2PEG4**
⅜"-16	½ in	2 29/32 in	H3	Powdered Metal	OSG	**2PFA5**
⅜"-16	½ in	2 29/32 in	H5	High Speed Steel	OSG	**4HHR7**
½"-13	9/16 in	3 11/32 in	H3	High Speed Steel	OSG	**2PEH1**
Steel & Stainless Steel Tapping, DIN/ANSI						
Metric Fine, 3 Flutes						
M14x1.25	12.00 mm	100.00 mm	D6	Powdered Metal	OSG	**54MG84**
M17x1	12.00 mm	100.00 mm	D5	Powdered Metal	OSG	**54MG89**
Metric Fine, 4 Flutes						
M20x1.5	16.00 mm	125.00 mm	D6	Powdered Metal	OSG	**32NG64**
M42x3	48.00 mm	200.00 mm	D10	Powdered Metal	OSG	**54MH26**
M48x3	48.00 mm	225.00 mm	D11	Powdered Metal	OSG	**54MH32**
UNC, 3 Flutes						
5/16"-18	7/16 in	3 17/32 in	H5	Powdered Metal	OSG	**32NG89**
⅜"-16	½ in	3 29/32 in	H3	Powdered Metal	OSG	**32NG94**
⅝"-11	11/16 in	4 5/16 in	H3	Powdered Metal	OSG	**32NH11**
⅝"-11	11/16 in	4 5/16 in	H5	Powdered Metal	OSG	**32NH10**
UNC, 4 Flutes						
¾"-10	1 in	4 29/32 in	H5	Powdered Metal	OSG	**32NH14**
1"-8	1 ¼ in	6 9/32 in	H4	Powdered Metal	OSG	**32NH23**
1⅛"-8	13/16 in	7 1/16 in	H9	Powdered Metal	OSG	**54MG08**
1⅛"-7	15/16 in	7 1/16 in	H9	Powdered Metal	OSG	**54MG07**
1¾"-8	13/16 in	7 27/32 in	H10	Powdered Metal	OSG	**54MG29**
UNF, 4 Flutes						
¾"-16	1 in	4 5/16 in	H3	Powdered Metal	OSG	**32NH17**
⅞"-14	1 1/16 in	4 29/32 in	H4	Powdered Metal	OSG	**32NH21**
1⅛"-12	13/16 in	5 ⅞ in	H8	Powdered Metal	OSG	**54MG09**
1⅜"-12	13/16 in	6 11/16 in	H8	Powdered Metal	OSG	**54MG23**

For more information on taps, see page 2261.

Black Oxide
UNC, 2 Flutes
2VZW3

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Black Oxide					
Metric Coarse, 3 Flutes					
M12x1.75	23.00 mm	85.00 mm	D6 / 6H	OSG	**2WAN8**
UNC, 2 Flutes					
#10-24	1/2 in	2 11/32 in	2B / H3	OSG	**2LXT9**
#10-24	9/16 in	2 1/2 in	H3 / H3	OSG	**2VZW3**
#10-24	9/16 in	2 1/2 in	H2 / H3	OSG	**4CXZ7**
#6-32	3/8 in	2 in	2B / H3	OSG	**2LXU6**
#6-32	7/16 in	2 3/32 in	H2 / H3	OSG	**4CXZ6**
#6-32	11/16 in	2 in	H3 / 3B	Westward	**5TWE5**
#8-32	7/16 in	2 1/4 in	H2 / JIS 2	OSG	**2VZX5**
#8-32	7/16 in	2 1/4 in	H3 / JIS 2	OSG	**2VZW5**
1/4"-20	5/8 in	2 1/2 in	2B / H3	OSG	**2LXR5**
1/4"-20	11/16 in	2 21/32 in	H3 / H3	OSG	**2TTC8**
1/4"-20	1 in	2 1/2 in	H3 / 3B	Westward	**5TWF2**
5/16"-18	13/16 in	2 27/32 in	H3 / H3	OSG	**2TTD8**
5/16"-18	1 1/8 in	2 23/32 in	H3 / 3B	Westward	**5TWF5**
UNC, 3 Flutes					
1/4"-20	1 in	2 1/2 in	H3 / 3B	Westward	**5TWP1**
5/16"-18	13/16 in	2 27/32 in	H3 / H3	OSG	**2VZR5**
3/8"-16	3/4 in	2 29/32 in	H3	OSG	**33YG31**
3/8"-16	3/4 in	2 29/32 in	2B / 2B	OSG	**2LXR7**
3/8"-16	3/4 in	2 29/32 in	3B / 3B	OSG	**2LXV7**
3/8"-16	7/8 in	3 3/32 in	H3	OSG	**2VZP4**
3/8"-16	1 1/4 in	2 15/16 in	H3 / 3B	Westward	**5TWF6**
7/16"-14	7/8 in	3 1/8 in	H3 / H3	OSG	**2VZP6**
1/2"-13	15/16 in	3 11/32 in	H3 / JIS 2	OSG	**2VZT8**
1/2"-13	15/16 in	3 11/32 in	2B / JIS 2	OSG	**2LXU9**
5/8"-11	1 1/16 in	3 25/32 in	H3 / 2B	OSG	**2VZR8**
3/4"-10	1 3/16 in	4 1/4 in	H3	OSG	**2VZT1**
UNF, 2 Flutes					
#10-32	1/2 in	2 11/32 in	2B / H3	OSG	**2LXT7**
#10-32	9/16 in	2 1/2 in	H2 / H3	OSG	**2VZW9**
#10-32	9/16 in	2 1/2 in	H3 / H3	OSG	**2VZV7**
UNF, 3 Flutes					
3/4"-16	1 3/16 in	4 1/4 in	H3	OSG	**2VZP2**
Bright (Uncoated)					
Metric, 2 Flutes					
M5x0.8	12.70 mm	60.45 mm	D4 / 6H	Cleveland	**435U12**
M6x1	16.00 mm	63.50 mm	D5 / 6H	Cleveland	**435U15**
M8x1.25	17.53 mm	69.09 mm	D5 / 6H	Cleveland	**435U41**
Metric, 3 Flutes					
M10x1.5	31.75 mm	74.61 mm	D6 / 6H	Cleveland	**435U50**
M12x1.75	42.07 mm	85.72 mm	D6 / 6H	Cleveland	**435U57**
M14x1.5	42.07 mm	91.28 mm	D6 / 6H	Cleveland	**435U62**
M16x1.5	46.04 mm	96.84 mm	D6 / 6H	Cleveland	**435U66**
M16x2	46.04 mm	96.84 mm	D7 / 6H	Cleveland	**435U67**
M20x2.5	50.80 mm	13.51 mm	D7 / 6H	Cleveland	**435U70**
Metric Coarse, 2 Flutes					
M2.5x0.45	12.00 mm	46.00 mm	D3 / H3	OSG	**2WAL5**
M3x0.50	5/8 in	1 15/16 in	D3 / 3B	Westward	**5TWK8**
M4x0.7	9.65 mm	54.10 mm	D4 / 6H	Greenfield Threading	**15J819**
M4x0.70	3/4 in	2 1/8 in	D4 / 3B	Westward	**5TWL0**
M5x0.8	12.70 mm	60.45 mm	D4 / 6H	Greenfield Threading	**15J832**
M5x0.8	13.00 mm	60.00 mm	D4	OSG	**2WAN6**
M5x0.80	7/8 in	2 3/8 in	D4 / 3B	Westward	**5TWL1**
M6x1	16.00 mm	63.50 mm	D5 / 6H	Greenfield Threading	**15J835**
M6x1	16.00 mm	63.00 mm	D5	OSG	**2WAN4**
M6x1.00	1 in	2 1/2 in	D5 / 3B	Westward	**5TWL2**
M8x1.25	1 1/8 in	2 23/32 in	D5 / 3B	Westward	**5TWL3**
M8x1.25	17.53 mm	69.09 mm	D5 / 6H	Greenfield Threading	**15J855**
M8x1.25	18.00 mm	69.00 mm	D5 / H3	OSG	**2WAN2**
Metric Coarse, 3 Flutes					
M10x1.5	19.05 mm	74.68 mm	D6 / 6H	Greenfield Threading	**15J864**
M10x1.5	19.00 mm	74.00 mm	D6 / 6H	OSG	**2WAL9**
M10x1.50	1 1/4 in	2 15/16 in	D6 / 3B	Westward	**5TWL4**
M12x1.25	23.88 mm	85.85 mm	D5 / 6H	Greenfield Threading	**15J871**
M12x1.75	1 21/32 in	3 3/8 in	D6 / 3B	Westward	**5TWL5**
M12x1.75	23.88 mm	85.85 mm	D6 / 6H	Greenfield Threading	**15J870**
M12x1.75	23.00 mm	85.00 mm	D6 / 6H	OSG	**2WAL8**
M14x2.0	25.40 mm	91.19 mm	D7 / 6H	Greenfield Threading	**15J877**
M16x2	25.40 mm	96.77 mm	D7 / 6H	Greenfield Threading	**15J881**
M16x2	27.00 mm	96.00 mm	D7 / 2B	OSG	**2WAP9**
M16x2.00	1 13/16 in	3 13/16 in	D7 / 3B	Westward	**5TWL7**
M18x2.5	27.00 mm	102.00 mm	D7	OSG	**2WAT4**
M20x2.5	30.99 mm	13.54 mm	D7 / 6H	Greenfield Threading	**15J884**
M20x2.5	31.00 mm	113.00 mm	D7	OSG	**2WAT7**
Metric Coarse, 4 Flutes					
M20x2.5	31.00 mm	113.00 mm	D7	OSG	**33YH09**
Metric Fine, 3 Flutes					
M10x1	19.00 mm	74.00 mm	D5 / 6H	OSG	**2WAP5**
M10x1.25	19.05 mm	74.68 mm	D5 / 6H	Greenfield Threading	**15J863**
M10x1.25	19.00 mm	74.00 mm	D5 / JIS 2	OSG	**2WAT3**
M12x1.25	23.00 mm	85.00 mm	D5 / 6H	OSG	**2WAP2**
M12x1.5	23.00 mm	85.00 mm	D6 / 6H	OSG	**2WAP8**
M14x1.5	25.40 mm	91.19 mm	D6 / 6H	Greenfield Threading	**15J876**
M14x1.5	25.00 mm	91.00 mm	D6	OSG	**2WAT8**
M16x1.5	25.40 mm	96.77 mm	D6 / 6H	Greenfield Threading	**15J880**
M16x1.5	27.00 mm	96.00 mm	D6 / 2B	OSG	**2WAT1**
M18x1.5	27.00 mm	102.00 mm	D6	OSG	**2WAP3**
M20x1.5	31.00 mm	113.00 mm	D6	OSG	**2WAT5**
M8x1	18.00 mm	69.00 mm	D5 / 6H	OSG	**2WAP4**
Hard Lube-Coated, DIN/ANSI					
Metric Coarse, 3 Flutes					
M10x1.5	40.00 mm	100.00 mm	6H	Cleveland	**45ER07**
M12x1.75	40.00 mm	110.00 mm	6H	Cleveland	**45ER09**
M14x2.0	45.01 mm	110.00 mm	6H	Cleveland	**45ER11**
M16x2	53.01 mm	110.00 mm	6H	Cleveland	**45ER13**
M5x0.8	26.01 mm	70.00 mm	6H	Cleveland	**45ER01**
M8x1.25	35.00 mm	90.00 mm	6H	Cleveland	**45ER05**

General Purpose Spiral-Point Taps

- Right-hand thread direction

General purpose spiral-point taps create internal threads in through holes and are intended for threading a wide range of materials. These taps are made from high-speed steel.

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Metric Coarse, 4 Flutes					
M18x2.5	54.99 mm	125.00 mm	6H	Cleveland	**45ER15**
Metric Fine, 3 Flutes					
M10x1.25	40.00 mm	100.00 mm	6H	Cleveland	**45ER06**
UNC, 3 Flutes					
#10-24	1 in	2 3/4 in	2B	Cleveland	**45EP73**
#8-32	13/16 in	2 15/32 in	2B	Cleveland	**45EP71**
5/16"-18	1 3/8 in	3 17/32 in	2B	Cleveland	**45EP79**
3/8"-16	1 11/16 in	3 29/32 in	2B	Cleveland	**45EP81**
1/2"-13	1 1/2 in	4 5/16 in	2B	Cleveland	**45EP85**
9/16"-12	1 3/4 in	4 5/16 in	2B	Cleveland	**45EP87**
5/8"-11	2 1/16 in	4 5/16 in	2B	Cleveland	**45EP89**
UNC, 4 Flutes					
3/4"-10	2 3/16 in	4 29/32 in	2B	Cleveland	**45EP91**
7/8"-9	2 5/16 in	5 1/2 in	2B	Cleveland	**45EP93**
1"-8	2 1/2 in	6 9/32 in	2B	Cleveland	**45EP95**
UNF, 3 Flutes					
#10-32	1 in	2 3/4 in	2B	Cleveland	**45EP74**
1/4"-28	1 1/4 in	3 1/8 in	2B	Cleveland	**45EP78**
5/8"-18	2 1/16 in	4 5/16 in	2B	Cleveland	**45EP90**
UNF, 4 Flutes					
3/4"-16	2 3/16 in	4 29/32 in	2B	Cleveland	**45EP92**
7/8"-14	2 5/16 in	5 1/2 in	2B	Cleveland	**45EP94**
1"-12	2 1/2 in	6 9/32 in	2B	Cleveland	**45EP96**
UN Coarse, Bright (Uncoated)					
UNC, 2 Flutes					
#10-24	1/2 in	2 3/8 in	H3 / 2B	Greenfield Threading	**15J827**
#10-24	7/8 in	2 3/8 in	H3 / 3B	Westward	**5TWC9**
#12-24	1/2 in	2 3/8 in	H3 / 2B	Greenfield Threading	**15J833**
#4-40	9/16 in	1 7/8 in	H2 / 3B	Westward	**5TWC5**
#6-32	3/8 in	2 in	H3 / 2B	Greenfield Threading	**15J816**
#6-32	3/8 in	2 in	H3 / 2B	Greenfield Threading	**15J918**
#6-32	11/16 in	2 in	H3 / 3B	Westward	**5TWC7**
#8-32	3/8 in	2 1/8 in	H3 / 2B	Greenfield Threading	**15J821**
#8-32	3/8 in	2 1/8 in	H2 / 2B	Greenfield Threading	**15J820**
#8-32	3/8 in	2 1/8 in	H3 / 2B	Greenfield Threading	**15J919**
#8-32	3/4 in	2 1/8 in	H3 / 3B	Westward	**5TWC8**
1/4"-20	5/8 in	2 1/2 in	H3 / 2B	Greenfield Threading	**15J838**
1/4"-20	5/8 in	2 1/2 in	H3 / 2B	Cleveland	**435U18**
1/4"-20	5/8 in	2 1/2 in	H2 / 2B	Greenfield Threading	**15J837**
1/4"-20	5/8 in	2 1/2 in	H3 / 2B	Greenfield Threading	**15J922**
1/4"-20	5/8 in	2 1/2 in	2B / H3	OSG	**2LXT5**
1/4"-20	11/16 in	2 21/32 in	H3 / H3	OSG	**2TTC1**
1/4"-20	1 in	2 1/2 in	H3 / 3B	Westward	**5TWD1**
5/16"-18	11/16 in	2 23/32 in	H3 / 2B	Greenfield Threading	**15J848**
5/16"-18	13/16 in	2 27/32 in	H2 / H3	OSG	**33YE84**
5/16"-18	1 1/8 in	2 23/32 in	H3 / 3B	Westward	**5TWD3**
UNC, 3 Flutes					
5/16"-18	11/16 in	2 23/32 in	H3 / 2B	Greenfield Threading	**15J849**
3/8"-16	3/4 in	2 15/16 in	H3 / 2B	Greenfield Threading	**15J857**
3/8"-16	3/4 in	2 15/16 in	H2 / 2B	Greenfield Threading	**15J856**
3/8"-16	3/4 in	2 15/16 in	H3 / 2B	Cleveland	**435U43**
3/8"-16	7/8 in	3 3/32 in	H3	OSG	**2VZR1**
3/8"-16	1 1/4 in	2 15/16 in	H3 / 3B	Westward	**5TWD5**
7/16"-14	1 7/16 in	3 5/32 in	H3 / 3B	Westward	**5TWD7**
1/2"-13	15/16 in	3 3/8 in	H3 / 2B	Greenfield Threading	**15J873**
1/2"-13	15/16 in	3 11/32 in	H3 / JIS 2	OSG	**2VZP9**
1/2"-13	15/16 in	3 3/8 in	H3 / 2B	Cleveland	**435U59**
1/2"-13	1 21/32 in	3 3/8 in	H3 / 3B	Westward	**5TWD9**
5/8"-11	1 1/16 in	3 25/32 in	H3 / 2B	Greenfield Threading	**15J878**
5/8"-11	1 13/16 in	3 13/16 in	H3 / 3B	Westward	**5TWE1**
5/8"-11	1 1/16 in	3 25/32 in	H3 / 2B	OSG	**2VZT5**
5/8"-11	1 1/16 in	3 25/32 in	H5 / 2B	OSG	**2VZN9**
3/4"-10	1 3/16 in	4 1/4 in	H5 / 2B-3B	Greenfield Threading	**15J883**
3/4"-10	1 3/16 in	4 1/4 in	H3 / 2B	Greenfield Threading	**15J882**
3/4"-10	1 3/16 in	4 1/4 in	H3	OSG	**2VZT2**
3/4"-10	2 in	4 1/4 in	H3 / 3B	Westward	**5TWE3**
UN Fine, Bright (Uncoated)					
UNF, 2 Flutes					
#10-32	1/2 in	2 3/8 in	H3 / 2B	Greenfield Threading	**15J830**
#10-32	1/2 in	2 3/8 in	H2 / 2B	Greenfield Threading	**15J829**
#10-32	1/2 in	2 3/8 in	H3 / 2B	Greenfield Threading	**15J921**
#10-32	1/2 in	2 11/32 in	H3 / H3	OSG	**33YG16**
#10-32	1/2 in	2 3/8 in	H3 / 2B	Greenfield Threading	**15J931**
#10-32	9/16 in	2 1/2 in	H3 / H3	OSG	**2VZW1**
#10-32	9/16 in	2 1/2 in	H2 / H3	OSG	**2VZV8**
#10-32	9/16 in	2 1/2 in	H5 / H3	OSG	**2TTD9**
#10-32	7/8 in	2 3/8 in	H3 / 3B	Westward	**5TWD0**
1/4"-28	5/8 in	2 1/2 in	H2 / 2B	Greenfield Threading	**15J843**
1/4"-28	11/16 in	2 21/32 in	H3 / 6H	OSG	**2TTC4**
1/4"-28	1 in	2 1/2 in	H3 / 3B	Westward	**5TWD2**
5/16"-24	11/16 in	2 23/32 in	H3 / 2B	Greenfield Threading	**15J853**
UNF, 3 Flutes					
3/8"-24	7/8 in	3 3/32 in	H3 / 6H	OSG	**2VZR7**
7/16"-20	7/8 in	3 1/8 in	H3 / 6H	OSG	**2VZP5**
7/16"-20	7/8 in	3 5/32 in	H3 / 2B	Cleveland	**435U54**
1/2"-20	15/16 in	3 3/8 in	H3 / 2B	Greenfield Threading	**15J875**
1/2"-20	1 21/32 in	3 3/8 in	H3 / 3B	Westward	**5TWE0**
5/8"-18	1 1/16 in	3 25/32 in	H3 / 2B	OSG	**2VZT9**
5/8"-18	1 1/16 in	3 25/32 in	H3 / 2B	Greenfield Threading	**15J885**
3/4"-16	1 3/16 in	4 1/4 in	H3	OSG	**2VZR9**
3/4"-16	1 3/16 in	4 1/4 in	H3 / 2B	Greenfield Threading	**15J886**

Additional tap sizes, materials, and coatings are available on Grainger.com®.

OSG WIDIA GTD WALTER PROTOTYP

High-Performance Spiral-Point Taps

- Right-hand thread direction
- Plug chamfer

High-performance spiral-point taps create internal threads in through holes and are harder and more wear-resistant than general purpose spiral-point taps. They provide better precision and accuracy than general purpose spiral-point taps when used for threading holes in designated materials.

Nickel & Titanium Tapping, Bright (Uncoated) UNC, 2 Flutes 4GT93

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
Multiple Materials Tapping, Black Oxide					
Metric Coarse, 3 Flutes					
M10x1.5	18.00 mm	74.00 mm	D6 / 6H	OSG	**2PJF9**
M10x1.5	19.10 mm	74.30 mm	D6 / 6H	Widia GTD	**2XTJ3**
M12x1.75	21.00 mm	85.00 mm	D6 / 6H	OSG	**2PJF3**
M12x1.75	23.90 mm	85.90 mm	D6 / 6H	Widia GTD	**2XTJ5**
M16x2	24.00 mm	96.00 mm	D7 / 2B	OSG	**2PJC3**
M16x2	27.70 mm	96.80 mm	D7 / 2B	Widia GTD	**2XTJ9**
M22x2.5	30.00 mm	119.00 mm	D8	OSG	**2PJC5**
M3x0.5	6.00 mm	49.00 mm	D3 / JIS 2	OSG	**2PJE5**
M4x0.7	8.00 mm	54.00 mm	D4 / JIS 2	OSG	**2PJE3**
M5x0.8	9.00 mm	60.00 mm	D4	OSG	**2PJD3**
M6x1	11.00 mm	63.00 mm	D5	OSG	**2PJD7**
M8x1.25	15.00 mm	69.00 mm	D5 / H3	OSG	**2PJD8**
M8x1.25	17.50 mm	68.90 mm	D5 / H3	Widia GTD	**2XTJ1**
Metric Coarse, 4 Flutes					
M24x3	36.00 mm	124.00 mm	D8 / JIS 2	OSG	**2PJD1**
M30x3.5	42.00 mm	138.00 mm	D9	OSG	**2PJC9**
Metric Fine, 3 Flutes					
M10x1.25	18.90 mm	74.10 mm	D5 / JIS 2	Widia GTD	**2XTJ2**
M12x1.25	23.90 mm	85.80 mm	D6 / 6H	Widia GTD	**2XTJ4**
M12x1.5	21.00 mm	85.00 mm	D6 / 6H	OSG	**2PJF5**
M14x1.5	25.40 mm	91.20 mm	D6	Widia GTD	**2XTJ6**
M16x1.5	24.00 mm	96.00 mm	D6 / 2B	OSG	**2PJF7**
M16x1.5	27.70 mm	96.80 mm	D6 / 2B	Widia GTD	**2XTJ8**
M18x1.5	27.70 mm	102.40 mm	D6	Widia GTD	**2XTK1**
M22x1.5	30.00 mm	119.00 mm	D6	OSG	**2PJC2**
M24x2	31.00 mm	124.70 mm	D7	Widia GTD	**53NC51**
M8x1	15.00 mm	69.00 mm	D5 / 6H	OSG	**2PJD4**
M8x1	17.50 mm	68.70 mm	D5 / 6H	Widia GTD	**2XTH9**
Metric Fine, 4 Flutes					
M24x1.5	36.00 mm	124.00 mm	D6	OSG	**2PJD2**
UNC, 2 Flutes					
#6-32	5/16 in	2 in	H3 / H3	OSG	**2PHU8**
#6-32	⅜ in	1 31/32 in	H3 / H3	Widia GTD	**1W182**
#8-32	⅜ in	2 3/32 in	H3 / JIS 2	Widia GTD	**1W184**
UNC, 3 Flutes					
#10-24	7/16 in	2 11/32 in	H3 / H3	OSG	**2PHW7**
#8-32	5/16 in	2 3/32 in	H3 / JIS 2	OSG	**2PHW4**
¼"-20	9/16 in	2 ½ in	H3 / H3	OSG	**2PHP1**
¼"-20	9/16 in	2 ½ in	H5 / H3	OSG	**2PHR8**
¼"-20	⅝ in	2 ½ in	H3 / H3	Widia GTD	**1W188**
¼"-20	⅝ in	2 ½ in	H5 / H3	Widia GTD	**11W558**
¼"-20	⅝ in	6 in	H3 / H3	Widia GTD	**53NP61**
5/16"-18	⅝ in	2 23/32 in	H3 / H3	OSG	**2PHP9**
5/16"-18	11/16 in	2 23/32 in	H3 / H3	Widia GTD	**1W192**
⅜"-16	¾ in	2 29/32 in	H3	OSG	**2PHP6**
⅜"-16	¾ in	2 15/16 in	H3	Widia GTD	**1W196**
⅜"-16	¾ in	2 29/32 in	H5	OSG	**2PJA2**
⅜"-16	¾ in	6 in	H3	Widia GTD	**53NP65**
7/16"-14	⅞ in	3 5/32 in	H3 / H3	Widia GTD	**1W200**
½"-13	⅞ in	3 11/32 in	H3 / JIS 2	OSG	**2PHT6**
½"-13	15/16 in	3 ⅜ in	H3 / JIS 2	Widia GTD	**1W204**
9/16"-12	1 in	3 9/16 in	H3	Widia GTD	**1W216**
⅝"-11	1 1/16 in	3 25/32 in	H3 / 2B	OSG	**2PHU4**
⅝"-11	1 1/16 in	3 25/32 in	H3 / 2B	Widia GTD	**1W208**
¾"-10	1 3/16 in	4 ¼ in	H3	OSG	**2PHU1**
⅞"-9	1 5/16 in	4 21/32 in	H5	OSG	**2PHX3**
UNC, 4 Flutes					
1"-8	1 ½ in	5 3/32 in	H5	OSG	**2PHX9**
2"-4-1/2	2 ⅝ in	7 ⅝ in	H7 / JIS 2	Widia GTD	**53NC36**
UNF, 2 Flutes					
#10-32	½ in	2 11/32 in	H3 / H3	Widia GTD	**1W186**
#10-32	½ in	6 in	H3 / H3	Widia GTD	**53NP60**
UNF, 3 Flutes					
#10-32	7/16 in	2 11/32 in	H3 / H3	OSG	**2PHX2**
5/16"-24	11/16 in	2 23/32 in	H3 / H3	Widia GTD	**1W194**
½"-20	⅞ in	3 11/32 in	H3 / 6H	OSG	**2PHT7**
9/16"-18	1 in	3 9/16 in	H3 / 2B	OSG	**2PHY6**
⅝"-18	1 1/16 in	3 25/32 in	H3 / 2B	OSG	**2PHT8**
¾"-16	1 3/16 in	4 ¼ in	H3	Widia GTD	**1W214**
¾"-16	1 3/16 in	4 ¼ in	H3	OSG	**2PHU2**
⅞"-14	1 5/16 in	4 11/16 in	H4	Widia GTD	**11W536**
UNF, 4 Flutes					
1"-12	1 ½ in	5 3/32 in	H4	OSG	**2PHT2**
1 ¼"-12	2 9/16 in	5 ¾ in	H5	OSG	**2PHX6**
1¼"-12	1 11/16 in	5 ¾ in	H5 / JIS 2	Widia GTD	**53NC29**
Nickel & Titanium Tapping, Bright (Uncoated)					
UNC, 2 Flutes					
#10-24	⅞ in	2 ⅜ in	H2 / H3	Widia GTD	**4GT93**
#12-24	15/16 in	2 ⅜ in	H2 / 2B	Widia GTD	**4GT95**
#4-40	9/16 in	1 ⅞ in	H2 / JIS 2	Widia GTD	**4GT84**
#6-32	11/16 in	2 in	H2 / H3	Widia GTD	**4GT89**
#8-32	¾ in	2 ⅛ in	H2 / JIS 2	Widia GTD	**4GT91**
¼"-20	1 in	2 ½ in	H2 / H3	Widia GTD	**4GT97**
5/16"-18	1 ⅛ in	2 23/32 in	H2 / H3	Widia GTD	**4GT99**
UNC, 3 Flutes					
⅜"-16	1 ¼ in	2 15/16 in	H2 / 2B	Widia GTD	**4GV02**
7/16"-14	1 7/16 in	3 5/32 in	H2 / H3	Widia GTD	**4GV04**
½"-13	1 21/32 in	3 ⅜ in	H2 / JIS 2	Widia GTD	**4GV06**
⅝"-11	1 13/16 in	3 13/16 in	H2 / 2B	Widia GTD	**4GV08**
¾"-10	1 13/16 in	4 ¼ in	H2 / 2B	Widia GTD	**4GV10**
UNF, 2 Flutes					
#10-32	⅞ in	2 ⅜ in	H2 / H3	Widia GTD	**4GT94**
¼"-28	1 in	2 ½ in	H2 / 6H	Widia GTD	**4GT98**
5/16"-24	1 ⅛ in	2 23/32 in	H2 / H3	Widia GTD	**4GV01**
UNF, 3 Flutes					
⅜"-24	1 ¼ in	2 15/16 in	H2 / 6H	Widia GTD	**4GV03**
7/16"-20	1 7/16 in	3 5/32 in	H2 / 6H	Widia GTD	**4GV05**
½"-20	1 21/32 in	3 ⅜ in	H2 / 6H	Widia GTD	**4GV07**
⅝"-18	1 13/16 in	3 13/16 in	H2 / 2B	Widia GTD	**4GV09**
Steel Tapping, Unified Thread Standard, Bright (Uncoated)					
BSW, 3 Flutes					
½"-12	⅞ in	4 5/16 in	—	Walter Prototyp	**429C46**
BSW, 4 Flutes					
1"-8	36.00 mm	160.00 mm	—	Walter Prototyp	**429C45**
Metric, 2 Flutes					
M6.3x1	25.40 mm	63.50 mm	D5 / H3	Widia GTD	**53MM66**
Metric Coarse, 2 Flutes					
M2x0.4	11.11 mm	44.45 mm	D3 / JIS 2	Widia GTD	**1C779**
M3.5x0.6	17.46 mm	50.80 mm	D4 / JIS 2	Widia GTD	**1C785**
M3x0.5	15.88 mm	49.21 mm	D3 / JIS 2	Widia GTD	**1C783**
M4x0.7	19.05 mm	53.98 mm	D4 / JIS 2	Widia GTD	**1C787**
M5x0.8	22.23 mm	60.33 mm	D4	Widia GTD	**1C793**
M6x1	25.40 mm	63.50 mm	D5	Widia GTD	**1C795**
M8x1.25	28.58 mm	69.06 mm	D5 / H3	Widia GTD	**1C801**
Metric Coarse, 3 Flutes					
M10x1.5	20.00 mm	100.00 mm	D4, D5 / 6H	Walter Prototyp	**428R92**
M10x1.5	31.75 mm	74.61 mm	D6 / 6H	Widia GTD	**1C803**
M12x1.75	42.06 mm	85.85 mm	D6 / 6H	Widia GTD	**1C805**
M14x2	42.06 mm	91.19 mm	D7 / 6H	Widia GTD	**1C807**
M16x2	46.05 mm	96.77 mm	D7 / 2B	Widia GTD	**1C809**
M20x2.5	50.80 mm	113.54 mm	D7	Widia GTD	**1C815**
Metric Coarse, 4 Flutes					
M27x3	36.00 mm	160.00 mm	D7, D8	Walter Prototyp	**428U69**
M30x3.5	35.00 mm	180.00 mm	D8, D9	Walter Prototyp	**428U71**
M33x3.5	42.00 mm	180.00 mm	D8, D9	Walter Prototyp	**428U72**
M36x4	48.00 mm	200.00 mm	D8, D9	Walter Prototyp	**428U73**
M39x4	48.00 mm	200.00 mm	D8, D9	Walter Prototyp	**428U74**
M42x4.5	54.00 mm	200.00 mm	D8, D9	Walter Prototyp	**428U76**
M45x4.5	54.00 mm	220.00 mm	D8, D9 / H3	Walter Prototyp	**428U77**
M48x5	60.00 mm	250.00 mm	D10, D9 / H3	Walter Prototyp	**428U78**
M56x5.5	66.00 mm	250.00 mm	6H / H3	Walter Prototyp	**428U81**
Metric Fine, 3 Flutes					
M10x1	20.00 mm	90.00 mm	6G / 6H	Walter Prototyp	**428X94**
Metric Fine, 4 Flutes					
M12x0.5	21.00 mm	100.00 mm	6H / H3	Walter Prototyp	**428X31**
M12x1.5	21.00 mm	100.00 mm	D5, D6 / 6H	Walter Prototyp	**428W99**
M14x1	21.00 mm	100.00 mm	6H / H3	Walter Prototyp	**428X35**
M14x1.25	21.00 mm	100.00 mm	D4, D5 / H3	Walter Prototyp	**428X36**
M18x1	24.00 mm	110.00 mm	6H / H3	Walter Prototyp	**428X40**
M18x1.5	24.00 mm	110.00 mm	6H	Walter Prototyp	**428X04**
M18x2	30.00 mm	125.00 mm	D6, D7 / H3	Walter Prototyp	**428X42**
M20x1.5	24.00 mm	125.00 mm	D5, D6	Walter Prototyp	**428X05**
M20x1.5	24.00 mm	125.00 mm	D5, D6	Walter Prototyp	**428X44**
M24x1.5	26.00 mm	140.00 mm	D5, D6	Walter Prototyp	**428X50**
M25x1.5	26.00 mm	140.00 mm	6H / H3	Walter Prototyp	**428X52**
M30x2	26.00 mm	150.00 mm	6H	Walter Prototyp	**428X60**
M32x2	26.00 mm	150.00 mm	6H / H3	Walter Prototyp	**428X62**
M33x2	28.00 mm	160.00 mm	6H	Walter Prototyp	**428X64**
M36x3	39.00 mm	200.00 mm	D7, D8	Walter Prototyp	**428X68**
M39x2	28.00 mm	170.00 mm	6H	Walter Prototyp	**428X70**
M42x3	42.00 mm	200.00 mm	D7, D8	Walter Prototyp	**428X75**
M48x3	45.00 mm	225.00 mm	6H / H3	Walter Prototyp	**428X78**
Metric Fine, 5 Flutes					
M38x1.5	28.00 mm	170.00 mm	6H / H3	Walter Prototyp	**428X69**
M42x1.5	28.00 mm	170.00 mm	6H / H3	Walter Prototyp	**428X73**
M45x1.5	28.00 mm	180.00 mm	6H / H3	Walter Prototyp	**428X76**
UNC, 3 Flutes					
¼"-20	15.00 mm	80.00 mm	H5, H6 / H3	Walter Prototyp	**428Z17**
5/16"-18	18.00 mm	90.00 mm	H4, H5 / H3	Walter Prototyp	**428Z24**
⅜"-16	20.00 mm	100.00 mm	H4, H5 / JIS 2	Walter Prototyp	**428Z21**
½"-13	23.00 mm	110.00 mm	H5, H6 / JIS 2	Walter Prototyp	**428Z34**
⅝"-11	25.00 mm	110.00 mm	H5, H6 / 2B	Walter Prototyp	**428Z36**
¾"-10	30.00 mm	125.00 mm	H6, H7 / 2B	Walter Prototyp	**428Z35**
⅞"-9	30.00 mm	140.00 mm	H6, H7 / 2B	Walter Prototyp	**428Z38**
UNC, 4 Flutes					
1¼"-7	42.00 mm	180.00 mm	2B / JIS 2	Walter Prototyp	**428Z32**
1½"-6	48.00 mm	200.00 mm	2B / JIS 2	Walter Prototyp	**428Z31**
UNC, UNJC, 2 Flutes					
#10-24	⅞ in	2 ⅜ in	H3 / H3	Widia GTD	**4AKH8**
#10-24	⅞ in	2 ⅜ in	H2 / H3	Widia GTD	**4CPJ5**
#12-24	15/16 in	2 ⅜ in	H3	Widia GTD	**4CPJ7**
#2-56	7/16 in	1 ¾ in	H2 / JIS 2	Widia GTD	**4AKH2**
#3-48	½ in	1 13/16 in	H2 / JIS 2	Widia GTD	**4AKH3**
#4-40	9/16 in	1 ⅞ in	H2 / JIS 2	Widia GTD	**4AKH4**
#5-40	⅝ in	1 15/16 in	H2 / H3	Widia GTD	**4AKH5**
#6-32	11/16 in	2 in	H3 / H3	Widia GTD	**4AKH6**
#6-32	11/16 in	2 in	H2 / H3	Widia GTD	**4CPJ1**
#8-32	¾ in	2 ⅛ in	H3 / JIS 2	Widia GTD	**4AKH7**
#8-32	¾ in	2 ⅛ in	H2 / JIS 2	Widia GTD	**4CPJ3**
¼"-20	1 in	2 ½ in	H3 / H3	Widia GTD	**4AKK0**
¼"-20	1 in	2 ½ in	H5 / H3	Widia GTD	**4CPK1**
¼"-20	1 in	2 ½ in	H2 / H3	Widia GTD	**4CPJ8**
¼"-20	1 in	2 ½ in	H1 / H3	Widia GTD	**53MM96**
¼"-20	1 in	6 in	H3 / H3	Widia GTD	**2XTW4**
5/16"-18	1 ⅛ in	2 23/32 in	H3 / H3	Widia GTD	**4AKK2**
5/16"-18	1 ⅛ in	2 23/32 in	H1 / H3	Widia GTD	**53MM89**
5/16"-18	1 ⅛ in	2 23/32 in	H2 / H3	Widia GTD	**53MM88**
5/16"-18	1 ⅛ in	6 in	H3 / H3	Widia GTD	**2XTW6**
UNC, UNJC, 3 Flutes					
¼"-20	1 in	2 ½ in	H3 / H3	Widia GTD	**4CPJ9**
⅜"-16	1 ¼ in	2 15/16 in	H3	Widia GTD	**4AKK4**
⅜"-16	1 ¼ in	2 15/16 in	H2	Widia GTD	**53MM80**
⅜"-16	1 ¼ in	2 15/16 in	H1	Widia GTD	**53MM81**
⅜"-16	1 ¼ in	6 in	3B, H3 / 2B	Widia GTD	**2XTW8**
7/16"-14	1 7/16 in	3 5/32 in	H3 / H3	Widia GTD	**4AKK6**
½"-13	1 21/32 in	3 ⅜ in	H3 / JIS 2	Widia GTD	**4AKK8**
⅝"-11	1 13/16 in	3 13/16 in	H3 / 2B	Widia GTD	**1C771**
¾"-10	2 in	4 ¼ in	H3	Widia GTD	**1C775**

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Additional tap sizes, materials, and coatings are available on Grainger.com®.

OSG WIDIA GTD WALTER PROTOTYP

High-Performance Spiral-Point Taps

Thread Size	Thread Length	Overall Length	Thread Limit / Class of Fit	Brand	Item No.
UNEF, 3 Flutes					
5/16"-32	18.00 mm	90.00 mm	2B / H3	Walter Prototyp	**429A23**
UNEF, 4 Flutes					
½"-28	21.00 mm	100.00 mm	2B / 2B	Walter Prototyp	**429A18**
⅝"-24	21.00 mm	100.00 mm	2B / 2B	Walter Prototyp	**429A24**
UNF, 2 Flutes					
#10-32	13.00 mm	70.00 mm	H2, H3 / H3	Walter Prototyp	**428Z96**
UNF, 3 Flutes					
¼"-28	15.00 mm	80.00 mm	H3, H4 / 6H	Walter Prototyp	**428Z95**
UNF, 4 Flutes					
⅝"-18	21.00 mm	100.00 mm	H5, H6 / JIS 2	Walter Prototyp	**429A37**
⅞"-14	24.00 mm	125.00 mm	H5, H6 / 2B	Walter Prototyp	**429A39**
1⅛"-12	26.00 mm	150.00 mm	2B / JIS 2	Walter Prototyp	**429A31**
1¼"-12	26.00 mm	150.00 mm	2B / JIS 2	Walter Prototyp	**429A30**
1⅜"-12	28.00 mm	170.00 mm	2B / JIS 2	Walter Prototyp	**429A32**
1½"-12	28.00 mm	170.00 mm	2B / JIS 2	Walter Prototyp	**429A29**
UNF, UNJF, 2 Flutes					
#10-32	⅞ in	2 ⅜ in	H3 / H3	Widia GTD	**4AKH9**
#10-32	⅞ in	2 ⅜ in	H2 / H3	Widia GTD	**4CPJ6**
#10-32	⅞ in	2 ⅜ in	H1 / H3	Widia GTD	**53MM99**
#10-32	⅞ in	6 in	H3 / H3	Widia GTD	**2XTW3**
#6-40	11/16 in	2 in	H2 / H3	Widia GTD	**4CPJ2**
¼"-28	1 in	2 ½ in	H3 / 6H	Widia GTD	**4AKK1**
5/16"-24	1 ⅛ in	2 23/32 in	H3 / H3	Widia GTD	**4AKK3**
UNF, UNJF, 3 Flutes					
⅜"-24	1 ¼ in	2 15/16 in	H3 / 6H	Widia GTD	**4AKK5**
7/16"-20	1 7/16 in	3 5/32 in	H3 / 6H	Widia GTD	**4AKK7**
½"-20	1 21/32 in	3 ⅜ in	H3 / 6H	Widia GTD	**4AKK9**
⅝"-18	1 13/16 in	3 13/16 in	H3 / 2B	Widia GTD	**1C773**
Steel Tapping, Unified Thread Standard, TiN					
Metric, 3 Flutes					
M12x1.25	9/16 in	2 ½ in	H3 / H3	OSG	**6VXR9**
M12x1.25	⅞ in	3 11/32 in	H3 / JIS 2	OSG	**6VXT7**
Metric Coarse, 2 Flutes					
M3x0.5	15.88 mm	49.21 mm	D3 / JIS 2	Widia GTD	**1E810**
M4x0.7	19.05 mm	53.98 mm	D4 / JIS 2	Widia GTD	**1E812**
M5x0.8	22.23 mm	60.33 mm	D4 / JIS 2	Widia GTD	**1E814**
M6x1	25.40 mm	63.50 mm	D5	Widia GTD	**1E816**
M8x1.25	28.58 mm	69.06 mm	D5 / H3	Widia GTD	**1E818**
Metric Coarse, 3 Flutes					
M10x1.5	31.75 mm	74.61 mm	D6 / 6H	Widia GTD	**1E820**
M12x1.75	42.06 mm	85.85 mm	D6 / 6H	Widia GTD	**1E822**
Metric Fine, 3 Flutes					
M12x1.25	22.00 mm	100.00 mm	6HX / 6H	Widia GTD	**53MT29**
Metric Fine, 4 Flutes					
M20x1.5	24.00 mm	125.00 mm	D5, D6	Walter Prototyp	**428X14**
M24x2	26.00 mm	140.00 mm	D6, D7	Walter Prototyp	**428X17**
M30x1.5	26.00 mm	150.00 mm	6H	Walter Prototyp	**428X19**
UNC, 2 Flutes					
#12-24	15/16 in	2 ⅜ in	H3	Widia GTD	**1E592**
#2-56	7/16 in	1 ¾ in	H2 / JIS 2	Widia GTD	**1E568**
#4-40	9/16 in	1 ⅞ in	H2 / JIS 2	Widia GTD	**1E572**
#5-40	⅝ in	1 15/16 in	H2 / H3	Widia GTD	**1E574**
#6-32	11/16 in	2 in	H3 / H3	Widia GTD	**1E578**
#6-32	11/16 in	2 in	H2 / H3	Widia GTD	**1E576**
#8-32	¾ in	2 ⅛ in	H3 / JIS 2	Widia GTD	**1E584**
#8-32	¾ in	2 ⅛ in	H2 / JIS 2	Widia GTD	**1E582**
¼"-20	1 in	2 ½ in	H3 / H3	Widia GTD	**1E596**
UNC, 3 Flutes					
#6-32	11.00 mm	56.00 mm	H3, H4 / H3	Walter Prototyp	**428Z16**
¼"-20	1 in	2 ½ in	H3 / H3	Widia GTD	**1E598**
½"-13	23.00 mm	110.00 mm	H5, H6 / JIS 2	Walter Prototyp	**428Z27**
UNC, UNJC, 2 Flutes					
#10-24	⅞ in	2 ⅜ in	H3 / H3	Widia GTD	**1E586**
¼"-20	1 in	2 ½ in	H2 / H3	Widia GTD	**1E594**
¼"-20	1 in	2 ½ in	H5 / H3	Widia GTD	**1E600**
5/16"-18	1 ⅛ in	2 23/32 in	H3 / H3	Widia GTD	**1E604**
UNC, UNJC, 3 Flutes					
⅜"-16	1 ¼ in	2 15/16 in	H3	Widia GTD	**1E608**
7/16"-14	1 7/16 in	3 5/32 in	H3 / H3	Widia GTD	**1E612**
½"-13	1 21/32 in	3 ⅜ in	H3 / JIS 2	Widia GTD	**1E616**
⅝"-11	1 13/16 in	3 13/16 in	H3 / 2B	Widia GTD	**2XTV2**
¾"-10	2 in	4 ¼ in	H3	Widia GTD	**2XTV3**
UNF, 2 Flutes					
#10-32	⅞ in	2 ⅜ in	H3 / H3	Widia GTD	**1E590**
#10-32	⅞ in	2 ⅜ in	H2 / H3	Widia GTD	**1E588**
UNF, UNJF, 2 Flutes					
#6-40	11/16 in	2 in	H2 / H3	Widia GTD	**1E580**
¼"-28	1 in	2 ½ in	H3 / 6H	Widia GTD	**1E602**
5/16"-24	1 ⅛ in	2 23/32 in	H3 / H3	Widia GTD	**1E606**
UNF, UNJF, 3 Flutes					
⅜"-24	1 ¼ in	2 15/16 in	H3 / 6H	Widia GTD	**1E610**
7/16"-20	1 7/16 in	3 5/32 in	H3 / 6H	Widia GTD	**1E614**
½"-20	1 21/32 in	3 ⅜ in	H3 / 6H	Widia GTD	**1E618**

Diamond-Coated
Metric Coarse, 3 Flutes
33YY35

WALTER PROTOTYP OSG WIDIA GTD

Carbide Straight-Flute Machine Taps

- Right-hand thread direction

Straight flute machine taps are installed in a toolholder on a machine and are used to create or repair internal threads in blind holes and through holes. These carbide taps provide excellent hardness and heat resistance and can be used for tapping hard materials at high speeds.

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Bright Finish, Coolant-Through					
Metric Coarse, 3 Flutes					
M10x1.5	20.00 mm	140.00 mm	Bottom	Walter Prototyp	**427J16**
M6x1	15.00 mm	80.00 mm	Bottom	Walter Prototyp	**427J17**
M7x1	15.00 mm	100.00 mm	Bottom	Walter Prototyp	**427J18**
M8x1.25	18.00 mm	120.00 mm	Bottom	Walter Prototyp	**427J19**
Metric Coarse, 4 Flutes					
M10x1.5	24.00 mm	100.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427J24**
M12x1.75	23.00 mm	140.00 mm	Bottom	Walter Prototyp	**427J44**
M5x0.8	16.00 mm	70.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427J25**
M6x1	19.00 mm	80.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427J26**
M8x1.25	22.00 mm	90.00 mm	Modified Bottom, Semi-Bottom	Walter Prototyp	**427J27**
Bright Finish, DIN/ANSI					
M4x0.7	10.00 mm	54.00 mm	Bottom	OSG	**33YY80**
M5x0.8	11.00 mm	60.00 mm	Bottom	OSG	**33YY81**
M6x1	14.00 mm	63.00 mm	Bottom	OSG	**33YY82**
UNC, 3 Flutes					
#4-40	¼ in	2 3/16 in	Bottom	OSG	**33YY57**
#6-32	5/16 in	2 3/16 in	Bottom	OSG	**33YY58**
#8-32	5/16 in	2 15/32 in	Bottom	OSG	**33YY59**
¼"-20	9/16 in	3 ⅛ in	Bottom	OSG	**33YY62**
UNC, 4 Flutes					
½"-13	⅞ in	4 5/16 in	Bottom	OSG	**33YY68**
UNF, 3 Flutes					
#10-32	½ in	2 ¾ in	Bottom	OSG	**33YY61**
UNF, 4 Flutes					
½"-20	⅞ in	4 5/16 in	Bottom	OSG	**33YY69**
CrC/C-Coated, Coolant-Through					
Metric, 3 Flutes					
M10x1.5	15.00 mm	100.00 mm	Bottom	Widia Gtd	**53NM21**
M10x1.5	18.00 mm	90.00 mm	Bottom	Widia Gtd	**53NM35**
M12x1.75	21.00 mm	100.00 mm	Bottom	Widia Gtd	**53NM37**
M6x1	10.00 mm	80.00 mm	Bottom	Widia Gtd	**53NM19**
M6x1	12.00 mm	70.00 mm	Bottom	Widia Gtd	**53NM33**
M8x1.25	10.00 mm	90.00 mm	Bottom	Widia Gtd	**53NM20**
M8x1.25	15.00 mm	80.00 mm	Bottom	Widia Gtd	**53NM34**
Diamond-Coated					
Metric Coarse, 3 Flutes					
M3x0.5	11.00 mm	46.00 mm	Modified Bottom	OSG	**33YY35**
Metric Coarse, 4 Flutes					
M4x0.7	13.00 mm	52.00 mm	Modified Bottom	OSG	**33YY36**
M5x0.8	16.00 mm	60.00 mm	Modified Bottom	OSG	**33YY37**
M6x1	19.00 mm	62.00 mm	Modified Bottom	OSG	**33YY38**
M8x1.25	22.00 mm	70.00 mm	Modified Bottom	OSG	**33YY39**
Metric Coarse, 5 Flutes					
M10x1.5	24.00 mm	75.00 mm	Modified Bottom	OSG	**33YY40**
M12x1.75	29.00 mm	82.00 mm	Modified Bottom	OSG	**33YY41**
TiCN-Coated, DIN/ANSI					
UNC, 4 Flutes					
#10-24	7/16 in	2 ¾ in	Modified Bottom, Semi-Bottom	OSG	**33YX74**
#4-40	¼ in	2 3/16 in	Modified Bottom, Semi-Bottom	OSG	**33YX71**
#6-32	5/16 in	2 3/16 in	Modified Bottom, Semi-Bottom	OSG	**33YX72**
#8-32	5/16 in	2 15/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX73**
UNC, 5 Flutes					
¼"-20	9/16 in	3 ⅛ in	Modified Bottom, Semi-Bottom	OSG	**33PE04**
5/16"-18	⅝ in	3 17/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX76**
⅜"-16	¾ in	3 29/32 in	Modified Bottom, Semi-Bottom	OSG	**33PE05**
7/16"-14	13/16 in	3 29/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX79**
½"-13	⅞ in	4 5/16 in	Modified Bottom, Semi-Bottom	OSG	**33YX81**
UNF, 5 Flutes					
¼"-28	9/16 in	3 ⅛ in	Modified Bottom, Semi-Bottom	OSG	**33YX75**
5/16"-24	⅝ in	3 17/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX77**
⅜"-24	¾ in	3 29/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX78**
7/16"-20	13/16 in	3 29/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX80**
½"-20	15/16 in	3 29/32 in	Modified Bottom, Semi-Bottom	OSG	**33YX82**

For more information on taps, see page 2261.

IRWIN HANSON · WESTWARD · OSG · WIDIA GTD · GREENFIELD THREADING

Straight-Flute Hand Taps

- Right-hand thread direction

Straight-flute hand taps are manually turned with a tap wrench to create or repair internal threads in blind holes and through holes.

High Speed Steel, TiN Coated
Metric Coarse, 4 Flutes
11W669

Thread Size	Thread Length	Overall Length	Tap Chamfer	Brand	Item No.
Carbon Steel, Bright (Uncoated) Finish					
Metric Coarse, 4 Flutes					
M4x0.7	19.05 mm	53.00 mm	Plug	Irwin Hanson	**19T136**
M5x0.8	22.00 mm	60.00 mm	Plug	Irwin Hanson	**19T138**
M6x1	25.00 mm	64.00 mm	Plug	Irwin Hanson	**19T140**
UNC, 3 Flutes					
#10-24	⅞ in	2 ⅜ in	Taper	Westward	**2LXD4**
#6-32	11⁄16 in	2 in	Taper	Westward	**2LXD2**
#6-32	11⁄16 in	2 in	Plug	Irwin Hanson	**19T113**
#8-32	¾ in	2 ⅛ in	Taper	Westward	**2LXD3**
¼"-20	1 in	2 ½ in	Bottom	Westward	**2LXK3**
¼"-20	1 in	2 ½ in	Plug	Westward	**2LXG4**
UNC, 4 Flutes					
#10-24	⅞ in	2 ⅜ in	Plug	Irwin Hanson	**19T115**
¼"-20	1 in	2 ½ in	Taper	Westward	**2LXD7**
¼"-20	1 in	2 ½ in	Plug	Irwin Hanson	**19T118**
5⁄16"-18	1 ⅛ in	2 23⁄32 in	Taper	Westward	**2LXE2**
5⁄16"-18	1 ⅛ in	2 23⁄32 in	Plug	Irwin Hanson	**19T120**
⅜"-16	1 ¼ in	2 15⁄16 in	Taper	Westward	**2LXE4**
⅜"-16	1 ¼ in	2 15⁄16 in	Plug	Irwin Hanson	**19T122**
½"-13	1 21⁄32 in	3 ⅜ in	Taper	Westward	**2LXE8**
⅝"-11	1 13⁄16 in	3 13⁄16 in	Taper	Westward	**2LXF3**
⅝"-11	1 13⁄16 in	3 13⁄16 in	Plug	Irwin Hanson	**19T130**
⅝"-11	1 13⁄16 in	3 13⁄16 in	Plug	Westward	**2LXH7**
¾"-10	2 in	4 ¼ in	Taper	Westward	**2LXF5**
¾"-10	2 in	4 ¼ in	Plug	Westward	**2LXH9**
1"-8	2½ in	5 ⅛ in	Plug	Westward	**2LXJ4**
UNF, 3 Flutes					
#10-32	⅞ in	2 ⅜ in	Taper	Westward	**2LXD5**
UNF, 4 Flutes					
#10-32	⅞ in	2 ⅜ in	Plug	Irwin Hanson	**19T116**
¼"-28	1 in	2 ½ in	Plug	Irwin Hanson	**19T119**
¾"-16	2 in	4 ¼ in	Taper	Westward	**2LXF6**
UNS, 4 Flutes					
1"-14	2½ in	5 ⅛ in	Plug	Westward	**2LXJ5**
High Speed Steel, Black Oxide Finish					
Metric Fine, 4 Flutes					
M20x1.5	37.00 mm	113.00 mm	Bottom	OSG	**33YV49**
UNC, 2 Flutes					
¼"-20	13⁄16 in	2 ½ in	Plug	OSG	**33YU67**
UNC, 4 Flutes					
¼"-20	11⁄16 in	2 ½ in	Taper	OSG	**33YL94**
½"-13	1 ⅛ in	3 11⁄32 in	Taper	OSG	**33YM24**
⅝"-11	1 5⁄16 in	3 25⁄32 in	Bottom	OSG	**2TRY9**
⅝"-11	1 5⁄16 in	3 25⁄32 in	Plug	OSG	**2TRY7**
⅝"-11	1 5⁄16 in	3 25⁄32 in	Taper	OSG	**33YM42**
¾"-10	1 ½ in	4 ¼ in	Plug	OSG	**2TTA1**
1"-8	1 13⁄16 in	5 3⁄32 in	Bottom	OSG	**2TRW5**
1"-8	1 13⁄16 in	5 3⁄32 in	Plug	OSG	**2TRY1**
1 ¼"-7	2 ⅛ in	5 ¾ in	Bottom	OSG	**33YN58**
1 ½"-6	2 ½ in	6 11⁄32 in	Bottom	OSG	**33YN84**
UNC, UNJC, 4 Flutes					
½"-13	1 21⁄32 in	3 ⅜ in	Bottom	Widia Gtd	**12F019**
⅝"-11	1 13⁄16 in	3 13⁄16 in	Bottom	Widia Gtd	**12F014**
¾"-10	2 in	4 ¼ in	Bottom	Widia Gtd	**12F012**
1"-8	2 ½ in	5 ⅛ in	Bottom	Widia Gtd	**12G943**
UNF, 4 Flutes					
#10-32	9⁄16 in	2 11⁄32 in	Plug	OSG	**4HKN2**
⅝"-18	1 5⁄16 in	3 25⁄32 in	Bottom	OSG	**2TRX9**
1 ⅛"-12	1 13⁄16 in	5 13⁄32 in	Taper	OSG	**33YN51**
High Speed Steel, TiN-Coated					
Metric Coarse, 4 Flutes					
M10x1.5	31.75 mm	74.61 mm	Bottom	Widia Gtd	**11W669**
UNC, 4 Flutes					
¼"-20	1 in	2 ½ in	Plug	Greenfield Threading	**15J590**
¼"-20	1 in	2 ½ in	Bottom	Greenfield Threading	**15J731**
5⁄16"-18	1 ⅛ in	2 23⁄32 in	Taper	Greenfield Threading	**407A65**
⅜"-16	1 ¼ in	2 15⁄16 in	Plug	Greenfield Threading	**15J594**
⅜"-16	1 ¼ in	2 15⁄16 in	Bottom	Greenfield Threading	**15J735**
½"-13	1 21⁄32 in	3 ⅜ in	Bottom	Greenfield Threading	**15J739**
½"-13	1 21⁄32 in	3 ⅜ in	Taper	Greenfield Threading	**407A81**
⅝"-11	1 13⁄16 in	3 13⁄16 in	Plug	Greenfield Threading	**15J603**
¾"-10	2 in	4 ¼ in	Bottom	Greenfield Threading	**15J745**
¾"-10	2 in	4 ¼ in	Taper	Greenfield Threading	**407A89**
1"-8	2 ½ in	5 ⅛ in	Bottom	Greenfield Threading	**15J749**
UNC, UNJC, 3 Flutes					
#6-32	11⁄16 in	2 in	Plug	Widia Gtd	**1E640**
UNC, UNJC, 4 Flutes					
#10-24	⅞ in	2 ⅜ in	Bottom	Widia Gtd	**1E650**
#10-24	⅞ in	2 ⅜ in	Plug	Widia Gtd	**1E648**
#8-32	¾ in	2 ⅛ in	Plug	Widia Gtd	**1E644**
#8-32	¾ in	2 ⅛ in	Bottom	Widia Gtd	**1E646**
¼"-20	1 in	2 ½ in	Plug	Widia Gtd	**1E661**
¼"-20	1 in	2 ½ in	Bottom	Widia Gtd	**1E664**
5⁄16"-18	1 ⅛ in	2 23⁄32 in	Plug	Widia Gtd	**1E670**
⅜"-16	1 ¼ in	2 15⁄16 in	Plug	Widia Gtd	**1E682**
⅜"-16	1 ¼ in	2 15⁄16 in	Bottom	Widia Gtd	**1E684**
½"-13	1 21⁄32 in	3 ⅜ in	Bottom	Widia Gtd	**1E701**
½"-13	1 21⁄32 in	3 ⅜ in	Plug	Widia Gtd	**1E699**
UNF, UNJF, 4 Flutes					
#10-32	⅞ in	2 ⅜ in	Plug	Widia Gtd	**1E652**
Powdered-Metal, TiCN-Coated					
Metric Coarse, 4 Flutes					
M4x0.7	8.00 mm	55.00 mm	Modified Bottom	OSG	**33YH83**
M6x1	12.00 mm	63.00 mm	Modified Bottom	OSG	**33PC95**
Metric Fine, 4 Flutes					
M12x1.5	21.00 mm	85.00 mm	Bottom	OSG	**33YK42**
UNC, 4 Flutes					
#8-32	5⁄16 in	2 3⁄32 in	Modified Bottom	OSG	**33YH74**
¼"-20	9⁄16 in	2 ½ in	Bottom	OSG	**33YK08**
⅜"-16	¾ in	2 29⁄32 in	Bottom	OSG	**33YK14**
⅜"-16	¾ in	2 29⁄32 in	Bottom	OSG	**33YK13**
UNC, 5 Flutes					
¾"-10	1 3⁄16 in	4 ¼ in	Bottom	OSG	**33YK32**
UNF, 4 Flutes					
½"-20	⅞ in	3 11⁄32 in	Bottom	OSG	**33YK22**
½"-20	⅞ in	3 11⁄32 in	Bottom	OSG	**33YK23**

WESTWARD · CLE-LINE · IRWIN HANSON · GENERAL · Starrett

Tap Wrenches

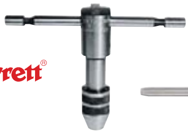
Tap wrenches are used to manually turn taps when repairing or creating threads in holes.

Fixed T-handle wrenches are more compact than straight-handle wrenches.

Ratcheting wrenches can be turned and repositioned quickly when working in tight spaces.

Sliding T-handle wrenches have a T-handle that slides from side to side, allowing them to be turned in tight spaces. They are more compact than straight-handle wrenches.

Straight-handle wrenches have a long, straight handle that provides more leverage than a T-handle.



Ratchet T-Handle
2CYT5

Starrett Sliding T-Handle
30C242

Straight Handle
50CA26

Tap Wrench Set
6TFF6

Min. Tap Size	Max. Tap Size	Overall Length	Fractional Tap Capacity	Brand	Item No.
Fixed T-Handle					
1⁄16 in	¼ in	2 ¾ in	1⁄16 in to ¼ in	Westward	**2CYR9**
1⁄16 in	¼ in	9 in	1⁄16 in to ¼ in	Westward	**2CYT2**
¼ in	1⁄16 in	8 ¾ in	1⁄16 in to ¼ in	Cle-Line	**50CA39**
¼ in	½ in	3 ⅜ in	¼ in to ½ in	Westward	**2CYT1**
¼ in	½ in	9 in	¼ in to ½ in	Westward	**2CYT3**
Ratcheting Sliding T-Handle					
1⁄16 in	5⁄32 in	3 in	1⁄16 in to 5⁄32 in	Westward	**2CYT4**
1⁄16 in	¼ in	3 ½ in	1⁄16 in to ¼ in	Westward	**2CYT5**
1⁄16 in	¼ in	13 in	1⁄16 in to ¼ in	Westward	**2CYT7**
7⁄32 in	½ in	4 ½ in	7⁄32 in to ½ in	Westward	**2CYT6**
7⁄32 in	½ in	13 in	7⁄32 in to ½ in	Westward	**2CYT8**
¼ in	#0	10 in	#0 to ¼ in	Irwin Hanson	**3KLR7**
½ in	¼ in	12 in	¼ in to ½ in	Irwin Hanson	**35T719**
Sliding T-Handle					
1⁄16 in	¼ in	2 ¾ in	1⁄16 in to ¼ in	Westward	**2FLL7**
¼ in	#0	2 ¾ in	¼ in	General	**6TFF5**
¼ in	#0	3 ½ in	¼ in	General	**6TFF2**
¼ in	½ in	3 ⅜ in	¼ in to ½ in	Westward	**2FLL8**
½ in	#12	3 ¾ in	½ in	General	**6TFF7**
½ in	#12	4 ¼ in	½ in	General	**6TFF3**
Starrett Sliding T-Handle					
3⁄16 in	1⁄16 in	2 in	1⁄16 in to 3⁄16 in	Starrett	**30C242**
¼ in	1⁄16 in	6 in	1⁄16 in to ¼ in	Starrett	**30C239**
7⁄16 in	7⁄32 in	2 ½ in	7⁄32 in to 7⁄16 in	Starrett	**30C243**
½ in	3⁄16 in	9 in	3⁄16 in to ½ in	Starrett	**30C240**
½ in	¼ in	3 ½ in	¼ in to ½ in	Starrett	**30C244**
½ in	¼ in	13 in	¼ in to ½ in	Starrett	**30C247**
⅝ in	¼ in	12 in	¼ in to ⅝ in	Starrett	**30C241**
¾ in	5⁄16 in	16 in	5⁄16 in to ¾ in	Starrett	**53VF08**
Straight-Handle					
1⁄16 in	¼ in	7 in	1⁄16 in to ¼ in	Westward	**2CYT9**
1⁄16 in	⅜ in	9 in	1⁄16 in to ⅜	Westward	**2CYU1**
5⁄32 in	½ in	11 in	5⁄32 in to ½ in	Westward	**2CYU2**
¼ in	1⁄16 in	7 in	1⁄16 in to ¼ in	Cle-Line	**50CA26**
¼ in	¾ in	15 in	¼ in to ¾ in	Westward	**2CYU3**
¼ in	1 ⅛ in	19 ⅛ in	¼ in to 1⅛	Westward	**2CYU4**
⅜ in	1⁄16 in	9 in	1⁄16 in to ⅜ in	Cle-Line	**50CA27**
½ in	#0	9 ½ in	#0 to ½ in	Irwin Hanson	**35T756**
¾ in	5⁄32 in	15 in	5⁄32 in to ¾ in	Cle-Line	**50CA30**
1 in	¼ in	12 ¾ in	¼ in to 1 in	Irwin Hanson	**35T702**
1 ⅛ in	¼ in	19 in	¼ in to 1⅛ in	Cle-Line	**50CA31**
1 ⅝ in	¾ in	40 in	¾ in to 1⅝ in	Cle-Line	**50CA32**
2 ½ in	1 in	54 in	1 in to 2½ in	Cle-Line	**50CA28**
Tap Wrench Sets					
½ in	#0	1 ⅞ in	#0 to ¼ in, #12 to ½ in	General	**6TFF6**
½ in	#0	1 ⅞ in	#0 to ¼ in, #12 to ½ in	General	**6TFF8**

Additional die sizes and materials are available on Grainger.com®.

GEARWRENCH®

CLEVELAND

Die Wrench for Round Dies
20X630

Die Wrenches

Die wrenches hold compatible dies so they can be turned in manual threading tasks. Also known as die stocks, the wrenches have straight handles on both sides that provide leverage when turning the dies.

For Outside Dia.	Overall Length	Brand	Item No.
Die Wrenches For Round & Hex Dies			
¼ in	9 ½ in	Gearwrench	**41XA79**
1 7/16 in	2 in	Gearwrench	**41XU45**
Die Wrenches For Round Dies			
13/16 in	6 ¼ in	Cleveland	**20X630**
1 in	9 in	Cleveland	**20X723**
1 ½ in	13 ⅞ in	Cleveland	**20X631**
2 in	23 in	Cleveland	**19E382**
2 ½ in	29 in	Cleveland	**19E383**

CLEVELAND

WESTWARD

OSG

Carbon Steel Adjustable Round Dies, UNF
20X706

Thread-Making Round Dies

- Right-hand thread direction

Round dies cut new threads or restore existing threads on the outer surfaces of parts so they can be mated with holes or other parts that have matching internal threads. A set screw adjusts the thread depth to over- or under-cut threads for a precise fit.

Thread Size	Die Thickness	Outside Dia.	Brand	Item No.
Carbon Steel Adjustable Round Dies				
UNC				
½"-13	⅜ in	1 in	Cleveland	**20X703**
¾"-10	½ in	1 ½ in	Cleveland	**20X705**
UNF				
¾"-16	½ in	1 ½ in	Cleveland	**20X706**
High-Speed Steel Adjustable Round Dies				
Metric				
M10x1.5	9.52 mm	25.40mm	Cleveland	**20X717**
M10x1.50	½ in	1 ½ in	Westward	**10T891**
M12x1.00	½ in	1 ½ in	Westward	**10T893**
M14x1.50	½ in	1 ½ in	Westward	**10T898**
M16x1.50	½ in	1 ½ in	Westward	**10T901**
M16x2.00	½ in	1 ½ in	Westward	**10T902**
M20x1.50	⅝ in	2 in	Westward	**10T907**
M22x1.50	⅝ in	2 in	Westward	**10T909**
M24x3.00	⅝ in	2 in	Westward	**10T913**
M30x1.50	¾ in	2 ½ in	Westward	**10T920**
M30x3.50	¾ in	2 ½ in	Westward	**10T923**
M8x1.25	9.52 mm	25.40mm	Cleveland	**20X716**
UNC				
¼"-20	⅜ in	1 in	OSG	**54LG77**
¼"-20	⅜ in	1 in	Cleveland	**20X645**
5/16"-18	⅜ in	1 in	Cleveland	**20X647**
⅜"-16	⅜ in	1 in	OSG	**33PC60**
⅜"-16	⅜ in	1 in	Cleveland	**20X649**
⅜"-16	½ in	1 ½ in	Westward	**10T752**
½"-13	½ in	1 ½ in	Cleveland	**20X659**
½"-13	½ in	1 ½ in	OSG	**54LH41**
½"-13	½ in	1 ½ in	Westward	**10T756**
⅝"-11	½ in	1 ½ in	Cleveland	**20X663**
¾"-10	⅝ in	2 in	OSG	**54LH58**
UNF				
9/16"-18	½ in	1 ½ in	Cleveland	**20X662**
⅝"-18	½ in	1 ½ in	Cleveland	**20X664**

GREENFIELD THREADING

OSG

High-Speed Steel Adjustable Round Pipe & Conduit
54LH84

Pipe and Conduit Thread Dies

- Right-hand thread direction
- UNF thread standard

These dies create or repair threads on the outer surfaces of pipe, conduit, or fittings so they can be mated with parts that have matching internal threads. **Fixed** dies create or repair threads in one size. **Adjustable** dies have a set screw that adjusts the thread depth to over- or under-cut threads for a precise fit.

Thread Size	Die Thickness	Outside Dia.	Brand	Item No.
Carbon Steel Fixed Round Pipe & Conduit Thread Dies				
¼"-18	½ in	1 ½ in	Greenfield Threading	**53PT10**
⅛"-27	⅜ in	1 in	Greenfield Threading	**53PT12**
⅛"-27	½ in	1 ½ in	Greenfield Threading	**53PT11**
High-Speed Steel Adjustable Round Pipe & Conduit Thread Dies				
½"-14	⅝ in	2 in	OSG	**54LH84**
¼"-18	½ in	1 ½ in	OSG	**54LH80**
¼"-18	⅝ in	2 in	OSG	**54LH82**
⅜"-18	½ in	1 ½ in	OSG	**54LH81**

CLEVELAND

WESTWARD

IRWIN HANSON

Carbon Steel Hex Die UNF
20X666

Thread-Repair Hex Dies

- Right-hand thread direction

Hex dies repair damaged, worn, or rusted threads on the outer surfaces of parts so they can be mated with holes or other parts that have matching internal threads. They can be turned with a standard wrench or a compatible die wrench. **Self-aligning** dies have a plate that aligns the die when it's placed on a part to help prevent cross threading.

Thread Size	Die Thickness	Hex Size	Brand	Item No.
Carbon Steel Hex Dies				
UNC				
¼"-20	¼ in	0.5344 in	Cleveland	**20X665**
5/16"-18	5/16 in	0.6188 in	Cleveland	**20X667**
⅜"-16	⅜ in	0.7031 in	Cleveland	**20X669**
⅜"-16	⅜ in	25/32 in	Westward	**10T943**
7/16"-14	7/16 in	0.7875 in	Cleveland	**20X671**
½"-13	½ in	0.9563 in	Cleveland	**20X673**
½"-13	½ in	1 1/16 in	Westward	**10M967**
⅝"-11	⅝ in	1 ⅛ in	Cleveland	**20X677**
¾"-10	¾ in	1.2938 in	Cleveland	**20X679**
¾"-10	¾ in	1 7/16 in	Westward	**10M975**
1"-8	1 in	1.6313 in	Cleveland	**20X683**
1 ¼"-7	1 in	1.9686 in	Cleveland	**20X687**
1"-8	1 in	1 13/16 in	Westward	**10M978**
1 ⅛"-7	1 in	1.8000 in	Cleveland	**20X685**
UNF				
¼"-28	¼ in	0.5344 in	Cleveland	**20X666**
⅜"-24	⅜ in	0.7031 in	Cleveland	**20X670**
½"-20	½ in	0.9563 in	Cleveland	**20X674**
⅝"-18	⅝ in	1 ⅛ in	Cleveland	**20X678**
¾"-16	¾ in	1.2938 in	Cleveland	**20X680**
Carbon Steel Self-Aligning Hex Dies				
NC				
5/16"-18	⅜ in	1 in	Irwin Hanson	**19T165**
½"-13	⅜ in	1 in	Irwin Hanson	**19T171**
⅝"-11	⅜ in	1 in	Irwin Hanson	**19T175**
1"-8	⅜ in	1 13/16 in	Irwin Hanson	**19T181**
NF				
#10-32	⅜ in	1 in	Irwin Hanson	**19T161**
⅝"-18	⅜ in	1 in	Irwin Hanson	**19T176**
¾"-16	⅜ in	1 in	Irwin Hanson	**19T178**
⅞"-14	⅜ in	1 13/16 in	Irwin Hanson	**19T180**
1"-14	⅜ in	1 13/16 in	Irwin Hanson	**19T182**

End Mill Flute, Material, and Finish Information

End mills have cutting edges on their nose and/or sides that remove material from a workpiece. They are used on computer numerical control (CNC) or manual milling machines to create parts with complex shapes and features such as slots, pockets, and grooves. Flutes on the end mills' cutting head carry the removed material away from the workpiece to prevent damage to the end mills or workpiece.

Materials

Carbide end mills provide excellent wear resistance and heat resistance and are harder than powdered-metal and cobalt end mills. They require a rigid setup.

Cobalt end mills can tolerate more vibration than carbide end mills.

Powdered-metal end mills are tougher and less likely to break than cobalt end mills.

Finishes

AlTiN is more resistant to high heat than TiN, TiCN, and TiAlN.

AlTiCrN offers higher resistance to oxidation than an AlTiN coating.

Bright (uncoated) provides a smooth, polished surface.

Diamond is only used for milling nonferrous materials such as aluminum, graphite, copper, and carbon fiber.

DLC is a cost-effective alternative to diamond finish and is used for milling abrasive materials such as stainless steel, ceramics, plastics, and aluminum alloys.

EXO is a multilayered TiAlN coating with a very smooth finish. It resists wear better than a standard TiAlN coating and withstands high speeds and high temperatures.

GMS has a lower coefficient of friction than GMX-35, which helps prevent built-up edge. It is also harder and more resistant to high heat than TiAlN and ZrN.

GMX-35 is harder and resists high heat better than TiAlN and ZrN, and it is suitable for high-speed milling and dry machining applications.

nACRo is harder and more resistant to high heat than TiAlN, TiCN, AlTiN, and AlCrN.

TiAlN withstands high temperatures, allows for faster speeds than a bright finish, and resists cracks and oxidation better than TiN or TiCN.

TiCN is harder and more wear-resistant than TiN.

TiN resists impact better than TiAlN and AlTiN.

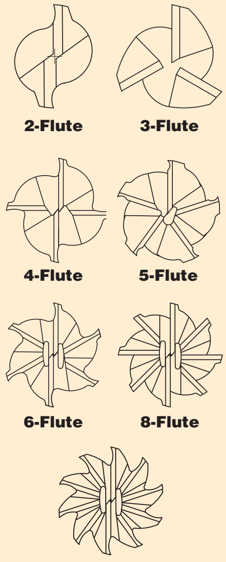
SS provides a polished surface that's smoother than a bright finish.

Taz reduces the need for coolant and is recommended for dry machining applications.

WXL is used for milling nonferrous metals and steels with a Rockwell hardness of up to 50 HRC.

WXS is used for milling nickel-based alloys and hardened steels with a Rockwell hardness of more than 50 HRC.

ZrN has a higher oxidation temperature than TiN and is used for milling nonferrous metals.



Helical-Flute Thread Mills

- Carbide material

Helical-flute thread mills have spiral flutes and provide a smoother cut than straight-flute or single-profile thread mills. They are used to create threads on tough or thin-walled materials and can create internal threads of the same pitch in a range of hole diameters, eliminating the need to change tools when threading multiple holes of different sizes. For use in CNC machines that have helical interpolation capability.

**Bright (Uncoated) Finish
Metric, 3 Flutes
16R777**

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
Metric, 3 Flutes						
M4.5x0.75	3.00 mm	6.00 mm	57.0 mm	6.000 mm	Micro 100	**16R778**
M5x0.80	3.00 mm	8.00 mm	57.0 mm	6.000 mm	Micro 100	**16R780**
M6x1	4.30 mm	12.00 mm	57.0 mm	6.000 mm	Micro 100	**16R782**
Metric, 4 Flutes						
M12x1.75	9.15 mm	22.00 mm	100.0 mm	10.000 mm	Micro 100	**16R792**
M20x2.5	11.94 mm	32.00 mm	100.0 mm	12.000 mm	Micro 100	**16R801**
NPT, 4 Flutes						
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R663**
NPTF, 3 Flutes						
1/16 in, ⅛"-27	0.2450 in	7/16 in	2½ in	¼ in	Micro 100	**16R674**
NPTF, 4 Flutes						
½ in, ¾"-14	0.4950 in	⅞ in	4 in	½ in	Micro 100	**16R666**
UN, 2 Flutes						
#4-40	0.0800 in	3/16 in	2 in	¼ in	Micro 100	**16R679**
#6-32	0.1000 in	¼ in	2 in	¼ in	Micro 100	**16R681**
UN, 3 Flutes						
#8-32	0.1150 in	¼ in	2 in	¼ in	Micro 100	**16R683**
¼"-28	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R693**
¼"-20	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R691**
5/16"-18	0.2350 in	⅝ in	2½ in	¼ in	Micro 100	**16R695**
UN, 4 Flutes						
#1-8	0.6200 in	1⅜ in	2 in	⅝ in	Micro 100	**16R677**
⅜"-24	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R702**
⅜"-16	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R699**
7/16"-20	0.3350 in	⅞ in	3 in	⅜ in	Micro 100	**16R706**
9/16"-12	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R710**
⅝"-11	0.4700 in	1¼ in	4 in	½ in	Micro 100	**16R714**
¾"-16	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R720**
⅞"-14	0.4900 in	1¼ in	4 in	½ in	Micro 100	**16R724**
Bright (Uncoated) Finish						
Metric, 3 Flutes						
M4.5x0.75	3.00 mm	6.00 mm	57.0 mm	6.000 mm	Micro 100	**16R777**
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	**4PFD6**
M6x1	0.1700 in	0.5280 in	2½ in	¼ in	Scientific Cutting Tools	**4PFK8**
M8x0.75	6.00 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	**16R784**
M8x1	0.2350 in	0.6850 in	2½ in	¼ in	Scientific Cutting Tools	**4PFT2**
M8x1.25	0.2350 in	0.6600 in	2½ in	¼ in	Scientific Cutting Tools	**4PFP7**
Metric, 4 Flutes						
M10x1	0.2900 in	0.8030 in	3½ in	5/16 in	Scientific Cutting Tools	**4LLF3**
M10x1.5	0.2900 in	0.7920 in	3½ in	5/16 in	Scientific Cutting Tools	**4LLF1**
M12x1	9.15 mm	22.00 mm	100.0 mm	10.000 mm	Micro 100	**16R790**
M12x1.5	0.3450 in	0.7920 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDV9**
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	Scientific Cutting Tools	**4PDY1**
M14x1.5	0.4500 in	1.0870 in	3½ in	½ in	Scientific Cutting Tools	**4PEG1**
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PEP6**
M14x2	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	**4PER2**
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	Scientific Cutting Tools	**4XXP2**
M18x1.5	11.94 mm	32.00 mm	100.0 mm	12.000 mm	Micro 100	**16R797**
NPT, 3 Flutes						
1/16 in, ⅛"-27	0.2450 in	7/16 in	2½ in	¼ in	Micro 100	**16R672**
NPT, 4 Flutes						
1/16 in, ⅛"-27	0.2180 in	0.5340 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP3**
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDR2**
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7/16 in	Scientific Cutting Tools	**4PDT7**
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R660**
NPTF, 4 Flutes						
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDR1**
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7/16 in	Scientific Cutting Tools	**4PDT6**
½ in, ¾"-14	0.4950 in	⅞ in	4 in	½ in	Micro 100	**16R665**
1 in, 2"-11.5	0.6200 in	1⅛ in	4 in	⅝ in	Micro 100	**16R661**
UN, 3 Flutes						
#10-24	0.1400 in	0.3920 in	2½ in	¼ in	Scientific Cutting Tools	**4LLF7**
#8-32	7/64 in	0.3250 in	2½ in	¼ in	Scientific Cutting Tools	**4PEP8**
¼"-20	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	**4LLG6**
¼"-20	0.1800 in	½ in	2½ in	¼ in	Micro 100	**16R690**
¼"-40	0.1870 in	0.5110 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP1**
5/16"-20	0.2350 in	0.6700 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP5**
5/16"-18	0.2350 in	0.6890 in	2½ in	¼ in	Scientific Cutting Tools	**4PDP4**
5/16"-18	0.2350 in	⅝ in	2½ in	¼ in	Micro 100	**16R694**
UN, 4 Flutes						
#1-8	0.6200 in	1⅜ in	2 in	⅝ in	Micro 100	**16R676**
⅜"-24	0.2850 in	¾ in	2½ in	5/16 in	Micro 100	**16R701**
⅜"-32	0.2900 in	0.7940 in	3½ in	5/16 in	Scientific Cutting Tools	**4PDR7**
⅜"-27	0.2900 in	0.7930 in	3½ in	5/16 in	Scientific Cutting Tools	**4PDR6**
7/16"-14	0.3050 in	¾ in	2½ in	5/16 in	Micro 100	**16R703**
7/16"-20	0.3350 in	⅞ in	3 in	⅜ in	Micro 100	**16R705**
7/16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDT5**
7/16"-24	0.3450 in	0.8080 in	3½ in	⅜ in	Scientific Cutting Tools	**4PDT4**
½"-13	0.3500 in	⅞ in	3 in	⅜ in	Micro 100	**16R707**
½"-28	0.4000 in	1.0860 in	3½ in	½ in	Scientific Cutting Tools	**4PDU4**
½"-24	0.4000 in	1.1000 in	3½ in	½ in	Scientific Cutting Tools	**4PDU3**
½"-20	0.4000 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	**4PDU2**
9/16"-18	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R711**
9/16"-12	0.3700 in	⅞ in	3 in	⅜ in	Micro 100	**16R709**
9/16"-20	0.4500 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	**4PDV4**
9/16"-16	0.4500 in	1.0880 in	3½ in	½ in	Scientific Cutting Tools	**4PDV2**
⅝"-11	0.4500 in	1.1270 in	3½ in	½ in	Scientific Cutting Tools	**4PDU9**
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	Scientific Cutting Tools	**4PDU8**
¾"-16	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R719**
¾"-12	0.4950 in	1¼ in	4 in	½ in	Micro 100	**16R717**
⅞"-9	0.6200 in	1⅜ in	4 in	⅝ in	Micro 100	**16R722**
EXO Finish						
UNC, 3 Flutes						
#10-24	0.1300 in	0.3740 in	2½ in	3/16 in	OSG	**2TNT2**
¼"-20	0.1800 in	0.5510 in	3 in	¼ in	OSG	**54LC57**
5/16"-18	0.2450 in	0.7200 in	3 in	¼ in	OSG	**54LC59**
⅜"-16	0.3000 in	0.5940 in	3 in	5/16 in	OSG	**2TNR2**
7/16"-14	0.3500 in	0.7130 in	3 in	⅜ in	OSG	**2TNP9**
UNC, 4 Flutes						
¼"-20	0.1800 in	0.4010 in	3 in	¼ in	OSG	**54LC77**
5/16"-18	0.2450 in	½ in	3 in	¼ in	OSG	**54LC79**

CONTINUED

CONTINUED

Helical-Flute Thread Mills

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
⅜"-16	0.3000 in	0.5620 in	3 in	5/16 in	OSG	54LC81
7/16"-14	0.3500 in	0.7120 in	3 in	⅜ in	OSG	54LC83
½"-13	0.3700 in	0.7680 in	3 in	⅜ in	OSG	2TNR5
½"-13	0.3700 in	1.0790 in	3 in	⅜ in	OSG	54LC65
⅝"-11	0.4300 in	1.4530 in	4 in	½ in	OSG	54LC69
¾"-10	0.6200 in	0.2010 in	4 in	⅝ in	OSG	2TNT6
⅞"-9	0.7450 in	2 in	5 in	¾ in	OSG	54LC73
1"-8	0.7450 in	1.6260 in	4 in	¾ in	OSG	2TNT9
1"-8	0.7450 in	2 in	5 in	¾ in	OSG	54LC75
UNC, 5 Flutes						
½"-13	0.3700 in	0.7670 in	3 in	⅜ in	OSG	54LC85
9/16"-12	0.4300 in	0.9170 in	4 in	½ in	OSG	54LC87
⅝"-11	0.4300 in	1 in	4 in	½ in	OSG	54LC89
¾"-10	0.6200 in	1.2000 in	4 in	⅝ in	OSG	54LC91
UNC, 6 Flutes						
⅞"-9	0.7450 in	1.3300 in	4 in	¾ in	OSG	54LC93
1"-8	0.7450 in	1⅝ in	4 in	¾ in	OSG	54LC95
UNF, 3 Flutes						
#10-32	0.1300 in	0.3740 in	2½ in	3/16 in	OSG	2TNR8
5/16"-24	0.2450 in	0.7520 in	3 in	¼ in	OSG	54LC60
⅜"-24	0.3000 in	0.5830 in	3 in	5/16 in	OSG	2TNR1
7/16"-20	0.3500 in	1.0510 in	3 in	⅜ in	OSG	54LC64
UNF, 4 Flutes						
¼"-28	0.1800 in	0.3930 in	3 in	¼ in	OSG	54LC78
5/16"-24	0.2450 in	½ in	3 in	¼ in	OSG	54LC80
7/16"-20	0.3500 in	0.7000 in	3 in	⅜ in	OSG	54LC84
9/16"-18	0.4500 in	0.8900 in	4 in	½ in	OSG	2TNT3
¾"-16	0.6200 in	1.6890 in	4½ in	⅝ in	OSG	54LC72
⅞"-14	0.7450 in	1.3580 in	4 in	¾ in	OSG	2TNT8
⅞"-14	0.7450 in	2 in	5 in	¾ in	OSG	54LC74
1"-12	0.7450 in	1.5830 in	4 in	¾ in	OSG	2TNT4
UNF, 5 Flutes						
½"-20	0.3700 in	¾ in	3 in	⅜ in	OSG	54LC86
9/16"-18	0.4500 in	0.8890 in	4 in	½ in	OSG	54LC88
¾"-16	0.6200 in	1⅛ in	4 in	⅝ in	OSG	54LC92
UNF, 6 Flutes						
⅞"-14	0.7450 in	1.3580 in	4 in	¾ in	OSG	54LC94
1"-12	0.7450 in	1.5820 in	4 in	¾ in	OSG	54LC96
UNS, 3 Flutes						
¼"-28	0.1800 in	0.5350 in	3 in	¼ in	OSG	54LC58
UNS, 4 Flutes						
½"-32	⅜ in	0.7520 in	3 in	⅜ in	OSG	2TNU1
Stainless Steel						
Metric, 3 Flutes						
M1.2x0.25	0.92 mm	0.26 mm	40.00 mm	3.00 mm	OSG	34ZT76
M1.4x0.3	1.05 mm	0.31 mm	40.00 mm	3.00 mm	OSG	34ZT77
M1.6x0.35	1.20 mm	0.36 mm	40.00 mm	3.00 mm	OSG	34ZT78
M1.7x M1.8x0.35	1.30 mm	0.36 mm	40.00 mm	3.00 mm	OSG	34ZT79
M1x0.25	0.72 mm	0.26 mm	40.00 mm	3.00 mm	OSG	34ZT75
UNC, 3 Flutes						
#1-64	0.0550 in	0.0160 in	1⅝ in	⅛ in	OSG	54LC56
UNF, 3 Flutes						
#0-80	0.0450 in	0.0130 in	1⅝ in	⅛ in	OSG	34ZT67
#1-72	0.0550 in	0.0140 in	1⅝ in	⅛ in	OSG	54LC55
TiAlN Finish						
Metric, 3 Flutes						
M10x1	0.3100 in	1 in	3½ in	⅜ in	Scientific Cutting Tools	4XXG5
M10x1.25	7.50 mm	16.25 mm	70.00 mm	8.00 mm	OSG	6WFN6
M10x1.5	0.3100 in	¾ in	3½ in	⅜ in	Scientific Cutting Tools	4XXG2
M10x1.5	0.3100 in	1 in	3½ in	⅜ in	Scientific Cutting Tools	4XXG3
M10x1.5	7.50 mm	16.50 mm	70.00 mm	8.00 mm	OSG	6WFN7
M10x1.5	7.50 mm	22.50 mm	70.00 mm	8.00 mm	OSG	33VR09
M10x1.50	7.90 mm	7.90 mm	70.00 mm	8.00 mm	Widia Gtd	53MP69
M12x2	0.3700 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	4XXG6
M2x.4	0.0560 in	0.2000 in	2½ in	¼ in	Scientific Cutting Tools	4XXJ5
M3x.5	0.0900 in	0.3000 in	2½ in	¼ in	Scientific Cutting Tools	4XXL1
M4x.7	0.1200 in	0.3000 in	2½ in	¼ in	Scientific Cutting Tools	4XXN1
M5x.8	0.1500 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	4XXN4
M5x.8	0.1500 in	0.4000 in	2½ in	¼ in	Scientific Cutting Tools	4XXN3
M5x0.8	0.1180 in	0.3280 in	58.00 mm	6.00 mm	Scientific Cutting Tools	4PFW7
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	Scientific Cutting Tools	4PFD7
M6x0.75	0.1700 in	0.5430 in	2½ in	¼ in	Scientific Cutting Tools	4PFE4
M6x1	4.50 mm	13.00 mm	60.00 mm	6.00 mm	OSG	33VR05
M6x1.25	0.1700 in	0.5610 in	2½ in	¼ in	Scientific Cutting Tools	4PFF5
M8x0.75	0.2350 in	0.6620 in	2½ in	¼ in	Scientific Cutting Tools	4PFP4
M8x1	6.00 mm	17.00 mm	65.00 mm	6.00 mm	OSG	33VR06
M8x1.00	6.00 mm	13.00 mm	65.00 mm	6.00 mm	OSG	6WFN3
M8x1.25	0.2340 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	4XXN9
M8x1.25	0.2340 in	0.6590 in	58.00 mm	6.00 mm	Scientific Cutting Tools	4PFX3
Metric, 4 Flutes						
M10x1	0.2900 in	0.8030 in	3½ in	5/16 in	Scientific Cutting Tools	4LLG3
M10x1.5	0.2900 in	0.7920 in	3½ in	5/16 in	Scientific Cutting Tools	4LLF2
M12x1	0.4000 in	1.0790 in	3½ in	½ in	Scientific Cutting Tools	4PDX7
M12x1.25	0.3450 in	0.8070 in	3½ in	⅜ in	Scientific Cutting Tools	4PDV6
M12x1.75	0.3450 in	0.7870 in	3½ in	⅜ in	Scientific Cutting Tools	4PDW6
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	Scientific Cutting Tools	4PEF7
M14x1.5	0.3700 in	0.9090 in	100.00 mm	10.00 mm	Scientific Cutting Tools	4PFU4
M14x1.50	10.00 mm	22.50 mm	85.00 mm	10.00 mm	OSG	6WFP0
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	4PEP7
M14x2	0.4500 in	1.1340 in	3½ in	½ in	Scientific Cutting Tools	4PER3
M16x2	0.4700 in	1.2900 in	100.00 mm	12.00 mm	Scientific Cutting Tools	4PFU5
M16x2	12.00 mm	34.00 mm	95.00 mm	12.00 mm	OSG	33VR15
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	Scientific Cutting Tools	4XXP3
M18x1.5	0.4700 in	1.2630 in	100.00 mm	12.00 mm	Scientific Cutting Tools	4PFU8
M20x1.5	16.00 mm	31.50 mm	105.00 mm	16.00 mm	OSG	6WFP3
M20x2.5	16.00 mm	42.50 mm	105.00 mm	16.00 mm	OSG	33VR17
M6x1	4.50 mm	13.00 mm	60.00 mm	6.00 mm	OSG	33VR20
M8x1	6.00 mm	17.00 mm	65.00 mm	6.00 mm	OSG	33VR21
M8x1.25	6.00 mm	17.50 mm	65.00 mm	6.00 mm	OSG	33VR22

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Metric, 5 Flutes						
M12x1.25	9.50 mm	26.30 mm	85.00 mm	10.00 mm	OSG	33VR25
M12x1.75	9.50 mm	26.30 mm	85.00 mm	10.00 mm	OSG	33VR26
M14x1.5	10.00 mm	30.00 mm	85.00 mm	10.00 mm	OSG	33VR27
M14x2	10.00 mm	30.00 mm	85.00 mm	10.00 mm	OSG	33VR28
M16x2	12.00 mm	34.00 mm	95.00 mm	12.00 mm	OSG	33VR30
M20x1.5	16.00 mm	42.00 mm	105.00 mm	16.00 mm	OSG	33VR31
M24x1	20.00 mm	51.00 mm	120.00 mm	20.00 mm	OSG	33VR19
M24x2	20.00 mm	50.00 mm	120.00 mm	20.00 mm	OSG	33VR18
NPT, 3 Flutes						
1/16"-27	0.1840 in	0.4090 in	3 in	¼ in	OSG	6WFP4
1/16 in, ⅛"-27	0.2220 in	0.4610 in	2½ in	¼ in	Scientific Cutting Tools	4PFX4
NPT, 4 Flutes						
1/16, ⅛"-27	0.2180 in	0.5340 in	2½ in	¼ in	Scientific Cutting Tools	4PDZ5
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	Scientific Cutting Tools	4PEC2
¼ in, ⅜"-18	0.3820 in	0.8000 in	3½ in	7/16 in	Scientific Cutting Tools	4PEC8
½ in, ¾"-14	0.4300 in	1.1050 in	3½ in	½ in	Scientific Cutting Tools	4PED8
½ in, ¾"-14	0.5700 in	0.7870 in	4 in	⅝ in	OSG	6WFP7
1 in to 2"-11-1/2	0.5500 in	1.1710 in	4 in	⅝ in	Scientific Cutting Tools	4PFX7
NPTF, 3 Flutes						
⅛"-27	0.2840 in	0.4090 in	3 in	5/16 in	OSG	6WFR1
NPTF, 4 Flutes						
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	Scientific Cutting Tools	4PEA3
1 in, 1¼"-11-1/2	0.7800 in	0.9570 in	4 in	1 in	OSG	6WFR4
1½ in, 2"-11-1/2	0.7800 in	0.9570 in	4 in	1 in	OSG	6WFR7
2½"-8	0.9100 in	1.3580 in	4 in	1 in	OSG	6WFR5
UN, 2 Flutes						
#4-40	0.0790 in	0.1850 in	2½ in	¼ in	Scientific Cutting Tools	4PFT4
UN, 3 Flutes						
#10-24	0.1200 in	0.3510 in	2½ in	¼ in	Scientific Cutting Tools	4PFT8
#10-28	0.1200 in	0.3360 in	2½ in	¼ in	Scientific Cutting Tools	4PFT9
#10-32	0.1200 in	0.3260 in	2½ in	¼ in	Scientific Cutting Tools	4PFU1
#10-32	0.1460 in	0.4100 in	2½ in	¼ in	Carmex	4PMT5
#10-48	0.1390 in	0.4000 in	2½ in	¼ in	Scientific Cutting Tools	4XXH5
#2-56	0.0650 in	0.2000 in	2½ in	¼ in	Scientific Cutting Tools	4XXF4
#4-40	0.0820 in	0.2250 in	2½ in	¼ in	Scientific Cutting Tools	4XXF5
#6-40	0.1000 in	0.2600 in	2½ in	¼ in	Scientific Cutting Tools	4XXF9
¼"-20	0.1720 in	0.5110 in	2½ in	¼ in	Scientific Cutting Tools	4PDY6
¼"-28	0.1860 in	0.7000 in	2½ in	¼ in	Scientific Cutting Tools	4XXJ1
5/16"-40	0.2380 in	0.8500 in	2½ in	¼ in	Scientific Cutting Tools	4XXK6
5/16"-28	0.2380 in	0.6000 in	2½ in	¼ in	Scientific Cutting Tools	4XXK1
5/16"-24	0.2380 in	0.8500 in	2½ in	¼ in	Scientific Cutting Tools	4XXJ9
7/16"-20	0.3120 in	0.9800 in	2½ in	5/16 in	Carmex	4PMX4
½"-12	0.3700 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	4XXL2
½"-20	0.3700 in	1.2000 in	3½ in	⅜ in	Scientific Cutting Tools	4XXL7
½"-12	0.3700 in	1.2000 in	3½ in	⅜ in	Scientific Cutting Tools	4XXL3
10-24	0.1400 in	0.3920 in	2½ in	¼ in	Scientific Cutting Tools	4PDX3
10-24	⅛ in	0.3500 in	2½ in	¼ in	Scientific Cutting Tools	4PDX1
10-28	0.1400 in	0.4070 in	2½ in	¼ in	Scientific Cutting Tools	4PDX4
10-32	0.1400 in	0.3880 in	2½ in	¼ in	Scientific Cutting Tools	4PDX5
10-48	0.1400 in	0.3830 in	2½ in	¼ in	Scientific Cutting Tools	4PDX6
2"-3/56	0.0650 in	0.0170 in	2½ in	¼ in	Carmex	4PMR8
UN, 4 Flutes						
⅜"-24	0.2850 in	0.7660 in	3 in	5/16 in	Scientific Cutting Tools	4PFV4
⅜"-16	0.2900 in	0.8200 in	3½ in	5/16 in	Scientific Cutting Tools	4PEA6
7/16"-14	0.3050 in	0.8860 in	3 in	5/16 in	Scientific Cutting Tools	4PFV5
7/16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	Scientific Cutting Tools	4PEC7
7/16"-24	0.3450 in	0.8080 in	3½ in	⅜ in	Scientific Cutting Tools	4PEC6
½"-13	0.3500 in	0.8770 in	3 in	⅜ in	Scientific Cutting Tools	4PFV7
½"-32	0.4000 in	1.1060 in	3½ in	½ in	Scientific Cutting Tools	4PED7
½"-28	0.4000 in	1.0860 in	3½ in	½ in	Scientific Cutting Tools	4PED6
½"-24	0.4000 in	1.1000 in	3½ in	½ in	Scientific Cutting Tools	4PED5
½"-20	0.4000 in	1.1200 in	3½ in	½ in	Scientific Cutting Tools	4PED4
⅝"-12	0.4500 in	1.1170 in	3½ in	½ in	Scientific Cutting Tools	4PEF3
⅝"-11	0.4700 in	1.3090 in	4 in	½ in	Scientific Cutting Tools	4PFW2
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	Scientific Cutting Tools	4PEF1
¾"-12	0.4950 in	1.2830 in	4 in	½ in	Scientific Cutting Tools	4PFW4
¾"-10	0.4950 in	1.3400 in	4 in	½ in	Scientific Cutting Tools	4PFW3
UN, 5 Flutes						
⅞"-9	0.6200 in	1.4890 in	4 in	⅝ in	Scientific Cutting Tools	4PFW9
1"-8	0.6200 in	1.5500 in	4 in	⅝ in	Scientific Cutting Tools	4PFX1
UNC, 3 Flutes						
#12-24	0.1600 in	0.3310 in	3 in	¼ in	OSG	33VP97
UNC, 4 Flutes						
⅞"-9	0.7450 in	1.3350 in	4 in	¾ in	OSG	33VR01
UNEF, 3 Flutes						
¼"-32	0.1900 in	0.3740 in	3 in	¼ in	OSG	33VR02
5/16"-32	¼ in	0.4690 in	3 in	¼ in	OSG	33VR03
⅜"-32	0.3100 in	0.5630 in	3 in	5/16 in	OSG	33VR04
UNF, 3 Flutes						
#12-28	0.1600 in	0.3230 in	3 in	¼ in	OSG	33VP98
TiCN Finish						
Metric, 3 Flutes						
M6x1	4.80 mm	6.30 mm	62.00 mm	8.00 mm	Widia Gtd	53MP88
Metric Fine, 3 Flutes						
M10x1.25	8.40 mm	10.30 mm	80.00 mm	12.00 mm	Widia Gtd	53MP97
UNC, 3 Flutes						
⅜"-16	0.3012 in	0.7831 in	3.1496 in	0.4724 in	Widia Gtd	53MR06
UNC, 4 Flutes						
⅝"-11	0.5157 in	1.3205 in	4.0157 in	0.7087 in	Widia Gtd	53MR10
WXS Finish						
Metric, 3 Flutes						
M2.5x M2.6x0.45	1.35 mm	1.35 mm	40.00 mm	6.00 mm	OSG	34ZT81
M2x0.40	1.50 mm	1.20 mm	40.00 mm	6.00 mm	OSG	34ZT80
M3x0.50	1.50 mm	1.50 mm	40.00 mm	6.00 mm	OSG	34ZT82
M4x0.70	2.10 mm	2.10 mm	40.00 mm	6.00 mm	OSG	34ZT83
M5x0.80	2.40 mm	2.40 mm	40.00 mm	6.00 mm	OSG	34ZT84
UNC, 3 Flutes						
#2, #3-56	0.0640 in	0.0540 in	1.6610 in	¼ in	OSG	34ZT68
#4, #5, #6-40	0.0830 in	0.0750 in	1.6610 in	¼ in	OSG	34ZT71
#6, #8-32	0.1030 in	0.0940 in	1.6610 in	¼ in	OSG	34ZT73
UNF, 3 Flutes						
#2-64	0.0640 in	0.0470 in	1.6610 in	¼ in	OSG	34ZT69
#5-44	0.0960 in	0.0680 in	1.6610 in	¼ in	OSG	34ZT72
#8-36	0.1290 in	0.0830 in	1.6610 in	¼ in	OSG	34ZT74

Single-Profile Thread Mills

For more information on end mills, see page 2277.

- Carbide material

Single-profile thread mills create very low side-cutting pressure and provide more control over pitch diameter and cut length during thread-milling tasks than helical-flute or straight-flute thread mills. They are suitable for threading applications with unfavorable length-to-diameter ratios and can create internal threads with a variety of pitch ranges, lengths, and diameters, eliminating the need to change tools when threading multiple holes of different sizes. For use in CNC machines that have helical interpolation capability.

Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
AlTiN Finish, Micro 100					
UN, 2 Flutes					
0.1000 in	32-64	0.029 in	1½ in	⅛ in	**16R736**
0.1000 in	32-64	0.029 in	2 in	⅛ in	**16R734**
0.0800 in	40-64	0.026 in	1½ in	⅛ in	**16R730**
0.0800 in	40-64	0.026 in	1½ in	⅛ in	**16R732**
0.0600 in	56-80	0.017 in	1½ in	⅛ in	**16R726**
0.0600 in	56-80	0.017 in	1½ in	⅛ in	**16R728**
UN, 3 Flutes					
0.1400 in	24-56	0.038 in	2 in	3⁄16 in	**16R746**
0.1400 in	24-56	0.038 in	2 in	3⁄16 in	**16R748**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R740**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R742**
0.1200 in	32-56	0.030 in	2 in	3⁄16 in	**16R744**
UN, 4 Flutes					
0.3600 in	12-32	0.085 in	4 in	⅜ in	**16R762**
0.2900 in	14-40	0.071 in	4 in	⅜ in	**16R760**
0.2400 in	16-48	0.055 in	3½ in	5⁄16 in	**16R758**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R750**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R752**
0.1800 in	18-56	0.055 in	2½ in	¼ in	**16R754**
¼ in	14-48	0.065 in	2½ in	¼ in	**16R756**
⅜ in	12-32	3⁄32 in	2.60 in	¼ in	**16R655**
UN, 5 Flutes					
½ in	11-32	⅛ in	2.61 in	5⁄16 in	**16R657**
UN, 6 Flutes					
¾ in	7-16	5⁄32 in	2.65 in	⅜ in	**16R659**
UN, 7 Flutes					
1 in	5-12	3⁄16 in	3.20 in	½ in	**16R653**

Bright (Uncoated) Finish
3 Flutes
4PEH2

Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
Bright (Uncoated) Finish, Scientific Cutting Tools					
UN, 2 Flutes					
0.0500 in	64-80	0.1000 in	1½ in	⅛ in	**4PEG7**
0.0500 in	64-80	0.1500 in	1½ in	⅛ in	**4PEG8**
0.0400 in	72-90	0.0900 in	1½ in	⅛ in	**4PEG5**
UN, 3 Flutes					
0.3720 in	12-32	0.8500 in	3 in	⅜ in	**4PEK2**
0.3720 in	12-32	1¼ in	3 in	⅜ in	**4PEK3**
0.2900 in	14-40	0.6000 in	3 in	⅜ in	**4PEJ9**
0.2900 in	14-40	1 in	3 in	⅜ in	**4PEK1**
0.2400 in	16-48	0.8000 in	2½ in	¼ in	**4PEJ8**
0.2400 in	16-48	½ in	2½ in	¼ in	**4PEJ7**
0.1820 in	18-56	0.4000 in	2½ in	¼ in	**4PEJ5**
0.1820 in	18-56	0.6500 in	2½ in	¼ in	**4PEJ6**
0.1380 in	24-56	0.4000 in	2 in	3⁄16 in	**4PEJ3**
0.1380 in	24-56	0.6000 in	2 in	3⁄16 in	**4PEJ4**
0.0980 in	32-64	0.4000 in	2 in	3⁄16 in	**4PEH9**
0.0980 in	32-64	¼ in	2 in	3⁄16 in	**4PEH8**
0.1200 in	32-56	0.3000 in	2 in	3⁄16 in	**4PEJ1**
0.1200 in	32-56	½ in	2 in	3⁄16 in	**4PEJ2**
0.0800 in	40-64	0.1900 in	2 in	3⁄16 in	**4PEH6**
0.0800 in	40-64	0.3000 in	2 in	3⁄16 in	**4PEH7**
0.0720 in	48-72	0.1500 in	2 in	3⁄16 in	**4PEH4**
0.0720 in	48-72	¼ in	2 in	3⁄16 in	**4PEH5**
0.0590 in	56-80	0.2000 in	1½ in	⅛ in	**4PEH1**
0.0600 in	56-80	0.2000 in	2 in	3⁄16 in	**4PEH3**
0.0590 in	56-80	⅛ in	1½ in	⅛ in	**4PEG9**
0.0600 in	56-80	⅛ in	2 in	3⁄16 in	**4PEH2**
UN, 5 Flutes					
0.4880 in	11-32	0.8500 in	3½ in	½ in	**4XXP4**
0.4880 in	11-32	1.3500 in	3½ in	½ in	**4XXP5**
UN, 6 Flutes					
0.7450 in	4-8	1½ in	5 in	¾ in	**4XXR1**
0.7450 in	4-8	2½ in	5 in	¾ in	**4XXR2**
0.6950 in	9-24	1½ in	5 in	¾ in	**4XXP8**
0.6950 in	9-24	2½ in	5 in	¾ in	**4XXP9**
0.5950 in	10-32	1¼ in	4 in	⅝ in	**4XXP6**
0.5950 in	10-32	2 in	4 in	⅝ in	**4XXP7**

Cutter Dia.	Pitch Range	Length of Cut	Overall Length	Shank Dia.	Item No.
TiAlN Finish, Scientific Cutting Tools					
UN, 2 Flutes					
0.0500 in	64-80	0.1000 in	1½ in	⅛ in	**4PEK6**
0.0500 in	64-80	0.1500 in	1½ in	⅛ in	**4PEK7**
0.0400 in	72-90	0.0900 in	1½ in	⅛ in	**4PEK4**
0.0400 in	72-90	⅛ in	1½ in	⅛ in	**4PEK5**
UN, 3 Flutes					
0.2900 in	14-40	0.6000 in	3 in	⅜ in	**4PEN8**
0.2900 in	14-40	1 in	3 in	⅜ in	**4PEN9**
0.2400 in	16-48	0.8000 in	2½ in	¼ in	**4PEN7**
0.2400 in	16-48	½ in	2½ in	¼ in	**4PEN6**
0.1820 in	18-56	0.4000 in	2½ in	¼ in	**4PEN4**
0.1380 in	24-56	0.4000 in	2 in	3⁄16 in	**4PEN2**
0.1380 in	24-56	0.6000 in	2 in	3⁄16 in	**4PEN3**
0.0980 in	32-64	0.4000 in	2 in	3⁄16 in	**4PEL8**
0.0980 in	32-64	¼ in	2 in	3⁄16 in	**4PEL7**
0.1200 in	32-56	0.3000 in	2 in	3⁄16 in	**4PEL9**
0.1200 in	32-56	½ in	2 in	3⁄16 in	**4PEN1**
0.0800 in	40-64	0.1900 in	2 in	3⁄16 in	**4PEL5**
0.0800 in	40-64	0.3000 in	2 in	3⁄16 in	**4PEL6**
0.0720 in	48-72	0.1500 in	2 in	3⁄16 in	**4PEL3**
0.0720 in	48-72	¼ in	2 in	3⁄16 in	**4PEL4**
0.0590 in	56-80	0.2000 in	1½ in	⅛ in	**4PEK9**
0.0600 in	56-80	0.2000 in	2 in	3⁄16 in	**4PEL2**
0.0590 in	56-80	⅛ in	1½ in	⅛ in	**4PEK8**
0.0600 in	56-80	⅛ in	2 in	3⁄16 in	**4PEL1**
UN, 4 Flutes					
0.3720 in	12-32	0.8500 in	3 in	⅜ in	**4PEP1**
0.3720 in	12-32	1¼ in	3 in	⅜ in	**4PEP2**
0.1820 in	18-56	0.6500 in	2½ in	¼ in	**4PEN5**
UN, 5 Flutes					
0.4880 in	11-32	0.8500 in	3½ in	½ in	**4XXR3**
0.4880 in	11-32	1.3500 in	3½ in	½ in	**4XXR4**
UN, 6 Flutes					
0.7450 in	4-8	1½ in	5 in	¾ in	**4XXR9**
0.7450 in	4-8	2½ in	5 in	¾ in	**4XXT1**
0.6950 in	9-24	1½ in	5 in	¾ in	**4XXR7**
0.6950 in	9-24	2½ in	5 in	¾ in	**4XXR8**
0.5950 in	10-32	1¼ in	4 in	⅝ in	**4XXR5**
0.5950 in	10-32	2 in	4 in	⅝ in	**4XXR6**

Straight-Flute Thread Mills

- Carbide material

Straight-flute thread mills are suitable for general purpose thread-milling applications and create internal threads of the same pitch in a range of hole diameters, eliminating the need to change tools when threading multiple holes of different sizes. They provide good strength but require a rigid machine setup. For use in CNC machines that have helical interpolation capability.

3 Flutes
4PER8

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
Bright (Uncoated) Finish					
Metric, 3 Flutes					
M3.5x.6	0.0900 in	0.2690 in	2½ in	¼ in	**4PET1**
M3x.5	0.0900 in	0.2640 in	2½ in	¼ in	**4PET3**
M4.5x.75	⅛ in	0.3370 in	2½ in	¼ in	**4PEW5**
M4.5x0.75	⅛ in	0.2190 in	2½ in	¼ in	**4PEX7**
M4x0.5	7⁄64 in	0.3230 in	2½ in	¼ in	**4PEX9**
M5x0.7	0.1400 in	0.3970 in	2½ in	¼ in	**4PFA6**
M5x0.8	0.1400 in	0.3910 in	2½ in	¼ in	**4PFA8**
M6x0.5	0.1700 in	0.5200 in	2½ in	¼ in	**4PFD1**
M6x0.75	0.1700 in	0.5430 in	2½ in	¼ in	**4PFE1**
M6x1	0.1700 in	0.5280 in	2½ in	¼ in	**4PFJ6**
M8x0.75	0.2350 in	0.6620 in	2½ in	¼ in	**4PFL1**
M8x1	0.2350 in	0.6850 in	2½ in	¼ in	**4PFP9**
M8x1.25	0.2350 in	0.6600 in	2½ in	¼ in	**4PFP5**
Metric, 4 Flutes					
M10x1.5	0.2900 in	0.7920 in	3½ in	5⁄16 in	**4LLE6**
M12x1	0.4000 in	1.0790 in	3½ in	½ in	**4PDW7**
M12x1.25	0.3450 in	0.8070 in	3½ in	⅜ in	**4LLG4**
M12x1.5	0.3450 in	0.7920 in	3½ in	⅜ in	**4PDV7**
M14x1.25	0.4500 in	1.1030 in	3½ in	½ in	**4PDX8**
M14x1.5	0.4500 in	1.0870 in	3½ in	½ in	**4PEF8**
M14x1.75	0.4500 in	1.1340 in	3½ in	½ in	**4PEG3**
M14x2	0.4500 in	1.1340 in	3½ in	½ in	**4PEP9**
M16x2.5	0.4500 in	1.1220 in	3½ in	½ in	**4XYC1**
M24x1	0.7400 in	1.0620 in	6 in	¾ in	**4XYC3**
M24x2.5	0.7400 in	1.0760 in	6 in	¾ in	**4XYC4**
M24x3	0.7400 in	1.0580 in	6 in	¾ in	**4XYC6**
Metric, 6 Flutes					
M36x4	0.9900 in	1.0950 in	7½ in	1 in	**4XYC7**
M40x6	0.9900 in	1.1920 in	7½ in	1 in	**4PFA4**
NPT, 4 Flutes					
⅛"-27	0.2750 in	0.7580 in	3½ in	⅜ in	**4XXU3**
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	**4PEW7**
½ in, ¾"-14	0.4300 in	1.1050 in	3½ in	½ in	**4PEZ1**
NPT, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFC7**

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
NPTF, 4 Flutes					
⅛"-27	0.2800 in	0.7580 in	3½ in	⅜ in	**4PEV8**
¼ in, ⅜"-18	0.3300 in	0.6930 in	3½ in	⅜ in	**4PEW8**
½ in, ¾"-14	0.4400 in	1.0340 in	6 in	¾ in	**4XXV7**
NPTF, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFC8**
UN, 3 Flutes					
#10-24	0.1400 in	0.3920 in	2½ in	¼ in	**4PER6**
#10-28	0.1400 in	0.4090 in	2½ in	¼ in	**4PER7**
#10-32	0.1400 in	0.3880 in	2½ in	¼ in	**4PER8**
#10-48	0.1400 in	0.3830 in	2½ in	¼ in	**4PER9**
#6-32	0.0980 in	0.2630 in	2½ in	¼ in	**4PEP4**
#6-40	0.0980 in	0.2600 in	2½ in	¼ in	**4PEP5**
#8-24	⅛ in	0.3500 in	2½ in	¼ in	**4PER4**
#8-32	7⁄64 in	0.3250 in	2½ in	¼ in	**4LLE8**
#8-36	7⁄64 in	0.3450 in	2½ in	¼ in	**4LLE9**
¼"-20	0.1700 in	0.5700 in	2½ in	¼ in	**4PET5**
¼"-24	0.1700 in	0.5590 in	2½ in	¼ in	**4PET6**
¼"-36	0.1700 in	0.5400 in	2½ in	¼ in	**4PET9**
¼"-20	0.1870 in	0.5700 in	2½ in	¼ in	**4PEU1**
¼"-24	0.1870 in	0.5590 in	2½ in	¼ in	**4PEU2**
¼"-32	0.1870 in	0.5450 in	2½ in	¼ in	**4PEU4**
¼"-36	0.1870 in	0.5400 in	2½ in	¼ in	**4PEU5**
¼"-40	0.1870 in	0.5600 in	2½ in	¼ in	**4PEU6**
¼"-48	0.1870 in	0.5510 in	2½ in	¼ in	**4PEU7**
5⁄16"-18	0.2350 in	0.6890 in	2½ in	¼ in	**4PEV1**
UN, 4 Flutes					
¼ in, ⅜"-18	0.3870 in	0.6820 in	3½ in	7⁄16 in	**4XXV2**
⅜"-16	0.2900 in	0.7750 in	3½ in	5⁄16 in	**4PEV9**
⅜"-20	0.2900 in	0.8200 in	3½ in	5⁄16 in	**4PEW1**
⅜"-24	0.2900 in	0.8090 in	3½ in	5⁄16 in	**4PEW2**
⅜"-27	0.2900 in	0.7940 in	3½ in	5⁄16 in	**4PEW3**
⅜"-32	0.2900 in	0.7940 in	3½ in	5⁄16 in	**4PEW4**
⅜"-18	0.3870 in	0.6620 in	3½ in	7⁄16 in	**4XXV3**
7⁄16"-14	0.3450 in	0.8160 in	3½ in	⅜ in	**4PEW9**
7⁄16"-18	0.3450 in	0.8000 in	3½ in	⅜ in	**4PEX1**
7⁄16"-20	0.3450 in	0.8210 in	3½ in	⅜ in	**4PEX2**
7⁄16"-24	0.3450 in	0.8090 in	3½ in	⅜ in	**4PEX3**
7⁄16"-28	0.3450 in	0.8000 in	3½ in	⅜ in	**4PEX4**
½"-13	0.4000 in	1.1080 in	3½ in	½ in	**4PEY3**
½"-16	0.4000 in	1.0870 in	3½ in	½ in	**4PEY4**
½"-20	0.4000 in	1.1200 in	3½ in	½ in	**4PEY5**
½"-24	0.4000 in	1.1000 in	3½ in	½ in	**4PEY6**
½"-28	0.4000 in	1.0870 in	3½ in	½ in	**4PEY7**
½"-32	0.4000 in	1.1060 in	3½ in	½ in	**4PEY8**
9⁄16"-12	0.4000 in	1.1170 in	3½ in	½ in	**4PEY2**
9⁄16"-16	0.4500 in	1.0870 in	3½ in	½ in	**4PEZ6**
9⁄16"-20	0.4500 in	1.1200 in	3½ in	½ in	**4PEZ8**
⅝"-11	0.4500 in	1.1270 in	3½ in	½ in	**4PEZ4**

Thread Size	Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Item No.
⅝"-12	0.4500 in	1.1170 in	3½ in	½ in	**4PEZ5**
¾"-10	0.4500 in	1.1400 in	3½ in	½ in	**4PEZ3**
1"-10	0.7400 in	1.0970 in	6 in	¾ in	**4XYC8**
1"-12	0.7400 in	1.0800 in	6 in	¾ in	**4XYC9**
1"-20	0.7400 in	1.0970 in	6 in	¾ in	**4XYD3**
1"-7	0.7400 in	1.1350 in	6 in	¾ in	**4XYD4**
1"-8	0.7400 in	1.1180 in	6 in	¾ in	**4XYD5**
UN, 6 Flutes					
⅝"-14	0.4900 in	1.1000 in	3½ in	½ in	**4PFA1**
⅝"-16	0.4900 in	1.0870 in	3½ in	½ in	**4PFA2**
¾"-12	0.4900 in	1.1170 in	3½ in	½ in	**4PEZ9**
⅞"-12	0.6200 in	1.1170 in	3½ in	⅝ in	**4PFA9**
⅞"-14	0.6200 in	1.1000 in	3½ in	⅝ in	**4PFC1**
⅞"-16	0.6200 in	1.0870 in	3½ in	⅝ in	**4PFC2**
⅞"-9	0.6200 in	1.1570 in	3½ in	⅝ in	**4PFC4**
1"-8	0.6200 in	1.1770 in	3½ in	⅝ in	**4PFC3**
1½ in	0.9900 in	1.1950 in	7½ in	1 in	**4XYD6**
1½"-12	0.9900 in	1.1660 in	7½ in	1 in	**4XYD7**
1½"-16	0.9900 in	1.1220 in	7½ in	1 in	**4XYD8**
1½"-6	0.9900 in	1.1520 in	7½ in	1 in	**4XYD9**
TiAlN Finish					
NPT, 4 Flutes					
1⁄16 in, ⅛"-27	0.2180 in	0.5340 in	2½ in	¼ in	**4PFG9**
NPT, 5 Flutes					
1 in to 2"-11-1/2	0.6500 in	1.6050 in	4 in	¾ in	**4PFR6**
NPTF, 5 Flutes					
2½" up-8	0.6500 in	1.5600 in	4 in	¾ in	**4PFR9**
UN, 3 Flutes					
#4-40	0.0800 in	0.2100 in	2½ in	¼ in	**4PFD3**
#6-32	0.0980 in	0.2630 in	2½ in	¼ in	**4PFD4**
UN, 4 Flutes					
⅜"-24	¼ in	0.6870 in	2½ in	¼ in	**4XXY2**
⅜"-28	¼ in	0.6610 in	2½ in	¼ in	**4XXY3**
⅜"-32	¼ in	0.6720 in	2½ in	¼ in	**4XXY4**
⅜"-36	¼ in	0.6820 in	2½ in	¼ in	**4XXY5**
⅜"-40	¼ in	0.6620 in	2½ in	¼ in	**4XXY6**
7⁄16"-16	0.3500 in	0.7830 in	6 in	¾ in	**4XXZ2**
7⁄16"-20	0.3500 in	0.8230 in	6 in	¾ in	**4XXZ4**
7⁄16"-24	0.3500 in	0.8560 in	6 in	¾ in	**4XXZ5**
½"-12	0.4000 in	1.1170 in	3½ in	½ in	**4PFL3**
⅝"-12	½ in	1.0420 in	6 in	¾ in	**4XYA3**
⅝"-14	½ in	1.0370 in	6 in	¾ in	**4XYA4**
⅝"-16	½ in	1.0330 in	6 in	¾ in	**4XYA5**
1"-12	¾ in	1.1760 in	6 in	¾ in	**4XYA6**
1"-14	¾ in	1.1520 in	6 in	¾ in	**4XYA7**
1"-18	¾ in	1.1170 in	6 in	¾ in	**4XYA8**
1"-20	¾ in	1.1060 in	6 in	¾ in	**4XYA9**
UN, 6 Flutes					
⅝"-16	0.4900 in	1.0870 in	3½ in	½ in	**4PFP3**

Carbide End Mill Sets

- ⅛ in, 3/16 in, ¼ in, ⅜ in, ½ in sizes included
- Center cutting

Sets contain five end mills in a range of sizes and are ideal for job sites that frequently use various sizes of end mills in machining tasks.

Ball End Mill 45XW26

Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Ball				
AlTin Finish	3	—	30 °	**45XV08**
	4	—	30 °	**45XW26**
Bright (Uncoated) Finish	2	—	30 °	**45XU24**
	3	—	30 °	**45XV07**
	4	—	30 °	**45XW25**
TiCN Finish	2	—	30 °	**45XU25**
Corner Radius				
Bright (Uncoated) Finish	2	0.005 to 0.010"	42 °	**52ZT35**
	3	1/64"	42 °	**52ZU91**
ZrN Finish	2	1/64"	42 °	**52ZT36**
	3	1/64"	42 °	**52ZU92**

Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Drill Mill				
AlTin Finish	2	—	30 °	**45XM45**
	4	—	30 °	**45XM47**
Bright (Uncoated) Finish	2	—	30 °	**45XM44**
	4	—	30 °	**45XM46**
Square				
AlTiCrN Finish	4	—	Variable	**45XY16**
AlTin Finish	3	—	30 °	**45XJ81**
	4	—	30 °	**45XM43**
Bright (Uncoated) Finish	3	—	42 °	**52ZL40**
	3	—	30 °	**45XJ80**
	4	—	30 °	**45XM42**
	4	—	Variable	**45XY15**
TiCN Finish	2	—	30 °	**45XH96**
ZrN Finish	3	—	42 °	**52ZL41**

Square End Mills

Square end mills have a square nose and create a flat-bottomed groove with 90° inside corners in milling tasks. Also called square-nose end mills, they are used for counterboring, side and face milling, and milling square shoulders.

General purpose end mills are intended for milling a wide variety of common materials.

High-performance end mills are used in production milling.

Roughing end mills remove large amounts of material from a workpiece more quickly than roughing/finishing and finishing end mills.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.

YG · OSG · CLEVELAND

High-Performance Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTiCrN Finish						
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	Variable	—	**45XX47**
⅛ in	1 in	3 in	⅛ in	Variable	—	**45XX51**
¼ in	¾ in	2 ½ in	¼ in	Variable	—	**45XX59**
¼ in	1 ½ in	4 in	¼ in	Variable	—	**45XX63**
⅜ in	1 in	2 ½ in	⅜ in	Variable	—	**45XX71**
⅜ in	1 ¾ in	4 in	⅜ in	Variable	—	**45XX75**
½ in	1 ¼ in	3 in	½ in	Variable	—	**45XX85**
½ in	1 in	3 in	½ in	Variable	—	**45XX83**
½ in	2 in	4 in	½ in	Variable	—	**45XX89**
½ in	3 in	6 in	½ in	Variable	—	**45XX91**
¾ in	1 ½ in	4 in	¾ in	Variable	—	**45XX99**
¾ in	2 ¼ in	5 in	¾ in	Variable	—	**45XY02**
¾ in	3 in	6 in	¾ in	Variable	—	**45XY04**
¾ in	4 in	7 in	¾ in	Variable	—	**45XY06**
1 in	3 in	6 in	1 in	Variable	—	**45XY12**
1 in	4 in	7 in	1 in	Variable	—	**45XY14**
Bright (Uncoated) Finish						
2 Flutes						
⅛ in	¼ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	**35U873**
⅛ in	⅜ in	1 ½ in	⅛ in	30 °	OSG	**2TWC5**
⅛ in	⅜ in	1 ½ in	⅛ in	45 °	Cleveland	**32ZY87**
⅛ in	½ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	**35U747**
3/16 in	5/16 in	2 in	3/16 in	45 °	Cleveland	**32ZY88**
3/16 in	9/16 in	2 in	3/16 in	30 °	OSG	**2TWD5**
¼ in	¼ in	4 in	¼ in	30 °	OSG	**33PA47**
¼ in	⅜ in	2 ½ in	¼ in	45 °	Cleveland	**32ZY90**
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	**2TWD6**
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	**35U755**
¼ in	1 ¼ in	3 in	¼ in	45 °	Cleveland	**32ZY92**
⅜ in	½ in	2 ½ in	⅜ in	45 °	Cleveland	**32ZY97**
⅜ in	1 in	2 ½ in	⅜ in	30 °	YG-1 Tool Company	**35U757**
⅜ in	2 ½ in	6 in	⅜ in	45 °	Cleveland	**32ZZ01**
½ in	⅝ in	2 ½ in	½ in	30 °	YG-1 Tool Company	**35U881**
½ in	⅝ in	3 in	½ in	45 °	Cleveland	**32ZZ05**
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	**35U759**
½ in	2 in	4 in	½ in	30 °	YG-1 Tool Company	**35U956**
½ in	2 in	4 in	½ in	45 °	Cleveland	**32ZZ07**
½ in	3 ⅛ in	6 in	½ in	45 °	Cleveland	**32ZZ08**
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	**35U761**
¾ in	1 in	4 in	¾ in	45 °	Cleveland	**32ZZ13**
¾ in	2 ¼ in	5 in	¾ in	30 °	YG-1 Tool Company	**35U958**
¾ in	3 ¼ in	6 in	¾ in	45 °	Cleveland	**32ZZ15**
1 in	1 ¼ in	5 in	1 in	45 °	Cleveland	**32ZZ17**
1 in	3 ¼ in	6 in	1 in	45 °	Cleveland	**32ZZ19**
1 in	4 ⅛ in	7 in	1 in	45 °	Cleveland	**32ZZ20**
Diamond Finish						
2 Flutes						
⅛ in	½ in	1 ¾ in	⅛ in	30 °	OSG	**30L525**
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	OSG	**30L523**
4 Flutes						
⅛ in	½ in	1 ¾ in	⅛ in	30 °	OSG	**2WDL9**
3/16 in	¾ in	2 in	3/16 in	30 °	OSG	**30L533**
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	**2WDN1**
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	OSG	**2WDN3**
DLC Finish						
3 Flutes						
¾ in	2 1/64 in	4 ½ in	¾ in	35 °	OSG	**54LD15**
1 in	2 1/64 in	4 ½ in	1 in	35 °	OSG	**54LD18**
20.00 mm	30.00 mm	100.00 mm	20.00 mm	35 °	OSG	**54LD20**
20.00 mm	50.00 mm	110.00 mm	20.00 mm	35 °	OSG	**54LD22**
20.00 mm	100.00 mm	160.00 mm	20.00 mm	35 °	OSG	**54LD23**
25.00 mm	37.50 mm	100.00 mm	25.00 mm	35 °	OSG	**54LD21**
GMS Finish						
5 Flutes						
¼ in	¾ in	2 ½ in	¼ in	Variable	—	**36PP05**
½ in	⅝ in	2 ½ in	½ in	Variable	—	**36PN80**
¾ in	1 ½ in	4 in	¾ in	Variable	—	**36PP21**
7 Flutes						
¼ in	½ in	2 in	¼ in	Variable	—	**36PP08**
½ in	⅝ in	2 ½ in	½ in	Variable	—	**36PN81**
GMX-35 Finish						
4 Flutes						
¼ in	3 in	6 in	¼ in	Variable	—	**36PJ61**
⅜ in	⅞ in	2 ½ in	⅜ in	Variable	—	**36PK82**
⅜ in	1 ¼ in	3 in	⅜ in	Variable	—	**36PK84**
½ in	1 ¼ in	3 in	½ in	Variable	—	**36PH97**
½ in	1 in	3 in	½ in	Variable	—	**36PJ01**
½ in	1 ½ in	4 in	½ in	Variable	—	**36PJ04**
¾ in	1 ½ in	4 in	¾ in	Variable	—	**36PK30**
¾ in	1 in	4 in	¾ in	Variable	—	**36PK36**
1 in	1 ½ in	4 in	1 in	Variable	—	**36PH34**
5 Flutes						
¼ in	3 in	6 in	¼ in	Variable	—	**36PJ62**
1 in	1 ½ in	4 in	1 in	Variable	—	**36PH36**
1 in	3 in	6 in	1 in	Variable	—	**36PH47**
TiAlN Finish						
2 Flutes						
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	**35U799**
½ in	⅝ in	2 ½ in	½ in	30 °	YG-1 Tool Company	**35U908**
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	**35U804**
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	**35U806**
1 in	1 ½ in	4 in	1 in	30 °	YG-1 Tool Company	**35U807**
4 Flutes						
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	**35U862**
¼ in	1 ⅛ in	3 in	¼ in	30 °	YG-1 Tool Company	**35V003**
⅜ in	⅝ in	2 in	⅜ in	30 °	YG-1 Tool Company	**35U945**
⅜ in	1 in	2 ½ in	⅜ in	30 °	YG-1 Tool Company	**35U865**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	YG-1 Tool Company	**35V005**
½ in	⅝ in	2 ½ in	½ in	30 °	YG-1 Tool Company	**35U947**
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	**35U867**
½ in	2 in	4 in	½ in	30 °	YG-1 Tool Company	**35V007**
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	**35U869**
TiN Finish						
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	YG-1 Tool Company	**35U833**
¼ in	¾ in	2 ½ in	¼ in	30 °	YG-1 Tool Company	**35U841**
⅜ in	⅝ in	2 in	⅜ in	30 °	YG-1 Tool Company	**35U932**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	YG-1 Tool Company	**35U994**
½ in	⅝ in	2 ½ in	½ in	30 °	YG-1 Tool Company	**35U934**
½ in	1 in	3 in	½ in	30 °	YG-1 Tool Company	**35U846**
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	**35U848**
¾ in	2 ¼ in	5 in	¾ in	30 °	YG-1 Tool Company	**35U998**
1 in	1 ½ in	4 in	1 in	30 °	YG-1 Tool Company	**35U849**
1 in	2 ¼ in	5 in	1 in	30 °	YG-1 Tool Company	**35U999**
ZrN Finish						
3 Flutes						
⅛ in	⅜ in	1 ½ in	⅛ in	35 °	Cleveland	**407H92**
¼ in	⅜ in	2 in	¼ in	35 °	Cleveland	**407H95**
¼ in	¾ in	2 ½ in	¼ in	35 °	Cleveland	**407H96**
⅜ in	½ in	2 in	⅜ in	35 °	Cleveland	**407J03**
⅜ in	1 in	2 ½ in	⅜ in	35 °	Cleveland	**407J04**
⅜ in	1 ½ in	3 ½ in	⅜ in	35 °	Cleveland	**407J05**
½ in	⅝ in	2 ½ in	½ in	35 °	Cleveland	**407J10**
½ in	1 ¼ in	3 in	½ in	35 °	Cleveland	**407J11**
½ in	2 in	4 in	½ in	35 °	Cleveland	**407J12**
¾ in	1 in	3 in	¾ in	35 °	Cleveland	**407J18**
¾ in	3 ¼ in	6 in	¾ in	35 °	Cleveland	**407J20**
1 in	3 ½ in	6 in	1 in	35 °	Cleveland	**407J23**

WIDIA HANITA · SGS Solid Carbide Tools · MICRO 100 super carbide tools · CLEVELAND · OSG · YG

High-Performance Roughing/ Finishing Carbide Square End Mills

AlTin Finish
6 Flutes
48LM70

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Shank Type	Helix Angle	Brand	Item No.
AlTin Finish							
4 Flutes							
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**45RM90**
¼ in	¾ in	2 ½ in	¼ in	Straight	30 °	SGS Tool	**41CG12**
¼ in	1 ¼ in	3 ¼ in	¼ in	Straight	38 °	Widia Hanita	**48HZ93**
¼ in	1 ½ in	4 in	¼ in	Straight	30 °	SGS Tool	**41CC64**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48HZ58**
⅜ in	1 in	2 ½ in	⅜ in	Straight	30 °	SGS Tool	**41CC72**
⅜ in	1 ⅛ in	3 in	⅜ in	Straight	30 °	SGS Tool	**41CA22**
⅜ in	1 ½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48HZ98**
½ in	⅝ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA29**
½ in	1 in	3 in	½ in	Weldon Flat	38 °	Widia Hanita	**48HZ61**
½ in	1 ¼ in	3 ¼ in	½ in	Straight	41 °	SGS Tool	**41AX14**
½ in	2 in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA03**
½ in	2 ½ in	4 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA44**
¾ in	⅞ in	3 ½ in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JA38**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48HZ79**
¾ in	1 ⅝ in	4 in	¾ in	Straight	38 °	Widia Hanita	**287RN7**
¾ in	1 in	7 in	¾ in	Straight	38 °	Widia Hanita	**48JE61**
¾ in	2 ¼ in	5 in	¾ in	Straight	38 °	Widia Hanita	**287RN8**
¾ in	3 in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JA51**
1 in	1 ½ in	4 in	1 in	Weldon Flat	38 °	Widia Hanita	**48HZ86**
1 ¼ in	2 ¼ in	5 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**48HZ90**
1 in	3 in	6 in	1 in	Straight	38 °	Widia Hanita	**287RP1**
5 Flutes							
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**430F43**
¼ in	½ in	2 in	¼ in	Straight	45 °	Micro 100	**16F223**
¼ in	⅝ in	4 in	¼ in	Straight	38 °	Widia Hanita	**430G43**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Widia Hanita	**48GV03**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48GV11**
½ in	⅝ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**430F77**
½ in	⅝ in	6 in	½ in	Weldon Flat	38 °	Widia Hanita	**430G72**
½ in	1 ¼ in	3 in	½ in	Straight	38 °	Widia Hanita	**48GV22**
½ in	1 in	3 in	½ in	Straight	38 °	Widia Hanita	**430F81**
½ in	1 ⅝ in	4 in	½ in	Straight	38 °	Widia Hanita	**430F91**
½ in	2 ⅛ in	4 in	½ in	Straight	38 °	Widia Hanita	**287RE9**
¾ in	1 in	3 in	¾ in	Straight	45 °	SGS Tool	**41AV23**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JH02**
¾ in	1 in	4 in	¾ in	Straight	38 °	Widia Hanita	**430G84**
¾ in	1 ½ in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**430G89**
¾ in	1 ½ in	7 in	¾ in	Weldon Flat	38 °	Widia Hanita	**430G95**
1 in	1 ¾ in	4 ½ in	1 in	Weldon Flat	38 °	Widia Hanita	**48JH12**
1 in	1 ¼ in	4 in	1 in	Straight	38 °	Widia Hanita	**430G96**
1 in	3 ¼ in	6 in	1 in	Weldon Flat	38 °	Widia Hanita	**430G32**
1 ¼ in	3 ¼ in	6 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**430G36**
1 ¼ in	5 in	8 in	1 ¼ in	Weldon Flat	38 °	Widia Hanita	**430G38**
4.00 mm	8.00 mm	57.00 mm	6.00 mm	Straight	45 °	Micro 100	**16F249**
4.00 mm	11.00 mm	55.00 mm	6.00 mm	Straight	38 °	Widia Hanita	**48LA99**
5.00 mm	10.00 mm	57.00 mm	6.00 mm	Straight	45 °	Micro 100	**16F253**
6.00 mm	10.00 mm	57.00 mm	6.00 mm	Straight	45 °	Micro 100	**16F257**
8.00 mm	16.00 mm	63.00 mm	8.00 mm	Straight	45 °	Micro 100	**16F261**
8.00 mm	19.00 mm	63.00 mm	8.00 mm	Straight	38 °	Widia Hanita	**48LC10**
8.00 mm	19.00 mm	76.00 mm	8.00 mm	Straight	38 °	Widia Hanita	**48LC45**
10.00 mm	19.00 mm	72.00 mm	10.00 mm	Straight	45 °	Micro 100	**16F265**
10.00 mm	22.00 mm	72.00 mm	10.00 mm	Straight	38 °	Widia Hanita	**48LC15**
10.00 mm	22.00 mm	76.00 mm	10.00 mm	Straight	38 °	Widia Hanita	**48LD09**
12.00 mm	26.00 mm	83.00 mm	12.00 mm	Weldon Flat	38 °	Widia Hanita	**48JZ03**
12.00 mm	26.00 mm	83.00 mm	12.00 mm	Straight	38 °	Widia Hanita	**48LC18**
16.00 mm	32.00 mm	92.00 mm	16.00 mm	Straight	38 °	Widia Hanita	**48LC24**
20.00 mm	38.00 mm	104.00 mm	20.00 mm	Weldon Flat	38 °	Widia Hanita	**48JY90**
25.00 mm	45.00 mm	135.00 mm	25.00 mm	Straight	38 °	Widia Hanita	**48LD43**
6 Flutes							
6.00 mm	10.00 mm	54.00 mm	6.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM70**
8.00 mm	12.00 mm	58.00 mm	8.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM71**
10.00 mm	14.00 mm	66.00 mm	10.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM72**
12.00 mm	16.00 mm	73.00 mm	12.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM73**
14.00 mm	26.00 mm	83.00 mm	14.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM82**
16.00 mm	32.00 mm	92.00 mm	16.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM83**
20.00 mm	26.00 mm	92.00 mm	20.00 mm	Weldon Flat	45 °	Widia Hanita	**48LM77**
Bright (Uncoated) Finish							
5 Flutes							
¼ in	½ in	2 ½ in	¼ in	Weldon Flat	Variable	Micro 100	**54FE29**
¼ in	½ in	4 in	¼ in	Weldon Flat	Variable	Micro 100	**54FE13**
5/16 in	½ in	2 ½ in	5/16 in	Weldon Flat	Variable	Micro 100	**54FE31**
5/16 in	⅝ in	4 in	5/16 in	Weldon Flat	Variable	Micro 100	**54FE15**
5/16 in	1 ⅛ in	3 in	5/16 in	Weldon Flat	Variable	Micro 100	**54FE23**
⅜ in	¾ in	4 in	⅜ in	Weldon Flat	Variable	Micro 100	**54FE17**
⅜ in	1 ¼ in	3 in	⅜ in	Weldon Flat	Variable	Micro 100	**54FE25**
½ in	⅝ in	3 in	½ in	Weldon Flat	Variable	Micro 100	**54FE35**
½ in	1 in	3 in	½ in	Weldon Flat	Variable	Micro 100	**54FE07**
½ in	1 ¾ in	4 ½ in	½ in	Weldon Flat	Variable	Micro 100	**54FE27**
½ in	1 in	6 in	½ in	Weldon Flat	Variable	Micro 100	**54FE19**
¾ in	1 in	3 in	¾ in	Straight	38°	Cleveland	**61KY57**
¾ in	1 ½ in	4 in	¾ in	Straight	38 °	Cleveland	**61KY58**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	Variable	Micro 100	**54FE11**
¾ in	2 ¼ in	5 in	¾ in	Straight	38 °	Cleveland	**61KY59**
1 in	1 ½ in	4 in	1 in	Straight	38°	Cleveland	**61KY60**
1 in	2 ¼ in	5 in	1 in	Straight	38°	Cleveland	**61KY61**
1 in	3 in	6 in	1 in	Straight	38 °	Cleveland	**61KY62**
TiAlN Finish							
2 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Straight	35 °	OSG	**30L363**
⅜ in	1 in	2 ½ in	⅜ in	Straight	35 °	OSG	**30L367**
½ in	1 in	3 in	½ in	Straight	35 °	OSG	**30L370**
3 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Straight	60 °	OSG	**35CJ19**
⅜ in	1 in	2 ½ in	⅜ in	Straight	60 °	OSG	**35CJ22**
½ in	1 in	3 in	½ in	Straight	60 °	OSG	**35CJ26**

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Shank Type	Helix Angle	Brand	Item No.
4 Flutes							
3/64 in	9/64 in	1 ½ in	⅛ in	Straight	35 °	OSG	**30L376**
⅛ in	3/16 in	3 in	¼ in	Straight	30 °	OSG	**35CK26**
⅛ in	¼ in	1 ½ in	⅛ in	Straight	38 °	Cleveland	**33GD60**
⅛ in	⅜ in	1 ½ in	⅛ in	Straight	35 °	OSG	**30L457**
⅛ in	⅜ in	1 ½ in	⅛ in	Straight	Variable	YG-1 Tool Company	**33TR35**
⅛ in	½ in	1 ½ in	⅛ in	Straight	35 °	OSG	**30L382**
⅛ in	½ in	1 ½ in	⅛ in	Straight	50 °	OSG	**35CJ36**
⅛ in	½ in	2 in	⅛ in	Straight	38 °	Widia Hanita	**48JA62**
¼ in	⅜ in	2 in	¼ in	Straight	38 °	Widia Hanita	**48JC67**
¼ in	⅜ in	4 in	¼ in	Straight	38 °	Widia Hanita	**48JE21**
¼ in	7/16 in	2 ½ in	¼ in	Straight	35 °	OSG	**30L459**
¼ in	½ in	2 in	¼ in	Straight	38 °	Cleveland	**33GD72**
¼ in	¾ in	2 ½ in	¼ in	Straight	30 °	OSG	**30L746**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Cleveland	**33GD74**
¼ in	¾ in	2 ½ in	¼ in	Straight	38 °	Widia Hanita	**48JA71**
¼ in	1 ¼ in	3 in	¼ in	Straight	38 °	Cleveland	**33GD79**
¼ in	1 ¼ in	3 ¼ in	¼ in	Straight	38 °	Widia Hanita	**48JC20**
¼ in	1 ¾ in	4 in	¼ in	Straight	38 °	Widia Hanita	**48JC43**
⅜ in	½ in	2 ½ in	⅜ in	Straight	35 °	OSG	**30L465**
⅜ in	½ in	2 in	⅜ in	Straight	38 °	Widia Hanita	**48JC73**
⅜ in	½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48JE23**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Cleveland	**33GD88**
⅜ in	⅞ in	2 ½ in	⅜ in	Straight	38 °	Widia Hanita	**48JA82**
⅜ in	1 in	2 ½ in	⅜ in	Straight	35 °	OSG	**30L393**
⅜ in	1 ⅛ in	3 in	⅜ in	Straight	38 °	Cleveland	**33GD90**
⅜ in	1 ½ in	4 in	⅜ in	Straight	35 °	OSG	**30L469**
⅜ in	1 ½ in	4 in	⅜ in	Weldon Flat	35 °	OSG	**30L470**
⅜ in	2 ½ in	4 in	⅜ in	Straight	35 °	OSG	**30L471**
⅜ in	2 ½ in	4 in	⅜ in	Straight	38 °	Widia Hanita	**48JC48**
7/16 in	⅞ in	2 ½ in	7/16 in	Straight	38 °	Widia Hanita	**48JA84**
7/16 in	1 in	2 ¾ in	7/16 in	Straight	35 °	OSG	**30L395**
7/16 in	1 in	2 ¾ in	7/16 in	Weldon Flat	35 °	OSG	**30L474**
7/16 in	1 in	2 ¾ in	7/16 in	Straight	35 °	OSG	**30L473**
½ in	⅝ in	2 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC79**
½ in	⅝ in	5 in	½ in	Straight	38 °	Widia Hanita	**48JE25**
½ in	1 ¼ in	3 in	½ in	Straight	30 °	OSG	**30L749**
½ in	1 in	3 in	½ in	Weldon Flat	35 °	OSG	**30L476**
½ in	1 ¼ in	3 ½ in	½ in	Straight	35 °	OSG	**30L484**
½ in	1 ¼ in	3 in	½ in	Straight	38 °	Cleveland	**33GE08**
½ in	1 in	3 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JA86**
½ in	1 ½ in	4 in	½ in	Weldon Flat	35 °	OSG	**30L478**
½ in	1 ½ in	4 in	½ in	Straight	35 °	OSG	**30L485**
½ in	1 ½ in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC92**
½ in	2 ½ in	4 in	½ in	Straight	35 °	OSG	**30L487**
½ in	2 ½ in	4 in	½ in	Weldon Flat	35 °	OSG	**30L480**
½ in	2 in	4 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC29**
½ in	2 ½ in	4 ½ in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC95**
½ in	3 in	5 in	½ in	Straight	35 °	OSG	**30L488**
½ in	3 in	5 in	½ in	Weldon Flat	38 °	Widia Hanita	**48JC52**
⅝ in	¾ in	3 in	⅝ in	Straight	38 °	Cleveland	**33GE19**
⅝ in	¾ in	3 in	⅝ in	Weldon Flat	38 °	Widia Hanita	**48JC83**
⅝ in	1 ⅝ in	3 ½ in	⅝ in	Straight	30 °	OSG	**30L750**
⅝ in	1 ¼ in	3 ½ in	⅝ in	Weldon Flat	35 °	OSG	**30L490**
⅝ in	1 ⅝ in	5 in	⅝ in	Weldon Flat	35 °	OSG	**30L491**
⅝ in	2 ¼ in	5 in	⅝ in	Straight	35 °	OSG	**30L497**
⅝ in	2 ¼ in	5 in	⅝ in	Weldon Flat	38 °	Widia Hanita	**48JC32**
⅝ in	3 in	6 in	⅝ in	Straight	35 °	OSG	**30L498**
¾ in	⅞ in	3 ½ in	¾ in	Weldon Flat	35 °	OSG	**30L499**
¾ in	⅞ in	3 ½ in	¾ in	Straight	35 °	OSG	**30L506**
¾ in	1 ⅝ in	4 in	¾ in	Straight	30 °	OSG	**30L751**
¾ in	1 ½ in	4 in	¾ in	Straight	35 °	OSG	**30L401**
¾ in	1 ½ in	4 in	¾ in	Weldon Flat	35 °	OSG	**30L501**
¾ in	1 ⅝ in	4 in	¾ in	Straight	35 °	OSG	**30L508**
¾ in	1 ⅝ in	4 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JD05**
¾ in	1 in	5 in	¾ in	Straight	38 °	Widia Hanita	**48JE35**
¾ in	2 ¼ in	5 in	¾ in	Straight	35 °	OSG	**30L509**
¾ in	2 ¼ in	5 in	¾ in	Weldon Flat	35 °	OSG	**30L503**
¾ in	3 in	6 in	¾ in	Weldon Flat	38 °	Widia Hanita	**48JD03**
¾ in	4 in	6 ¼ in	¾ in	Weldon Flat	35 °	OSG	**30L505**
⅞ in	1 ½ in	4 in	⅞ in	Straight	35 °	OSG	**30L402**
1 in	1 ¾ in	4 in	1 in	Straight	30 °	OSG	**30L745**
1 in	1 ½ in	4 in	1 in	Straight	35 °	OSG	**30L380**
1 in	1 ½ in	4 in	1 in	Weldon Flat	35 °	OSG	**30L447**
1 in	1 ⅝ in	7 in	1 in	Weldon Flat	35 °	OSG	**35CH79**
1 in	2 ½ in	5 in	1 in	Weldon Flat	35 °	OSG	**30L449**
1 in	2 ¼ in	5 in	1 in	Weldon Flat	38 °	Widia Hanita	**48JC40**
1 in	2 in	5 in	1 in	Weldon Flat	38 °	Widia Hanita	**48JD07**
1 in	3 in	6 in	1 in	Weldon Flat	35 °	OSG	**30L450**
1 in	4 in	7 in	1 in	Straight	35 °	OSG	**30L456**
5 Flutes							
⅛ in	½ in	1 ½ in	⅛ in	Straight	45 °	OSG	**35CK35**
¼ in	1 ¼ in	3 in	¼ in	Straight	38 °	Cleveland	**33GG34**
⅜ in	1 in	2 ½ in	⅜ in	Straight	45 °	OSG	**35CK47**
½ in	⅝ in	2 ½ in	½ in	Straight	38 °	Cleveland	**33GG55**
⅝ in	1 ¼ in	3 ½ in	⅝ in	Straight	45 °	OSG	**35CK55**
¾ in	1 ½ in	4 in	¾ in	Straight	45 °	OSG	**35CK57**
6 Flutes							
¼ in	¾ in	2 ½ in	¼ in	Straight	50 °	OSG	**35CJ41**
⅜ in	1 in	2 ½ in	⅜ in	Straight	50 °	OSG	**35CJ44**
½ in	1 in	3 in	½ in	Straight	50 °	OSG	**35CJ48**
ZrN Finish							
2 Flutes							
5/32 in	5/16 in	1 ½ in	3/16 in	Straight	45 °	Micro 100	**16F213**
3/16 in	⅜ in	1 ½ in	3/16 in	Straight	45 °	Micro 100	**16F215**
¼ in	½ in	2 in	¼ in	Straight	45 °	Micro 100	**16F221**
5/16 in	½ in	2 in	5/16 in	Straight	45 °	Micro 100	**16F225**
⅜ in	⅝ in	2 in	⅜ in	Straight	45 °	Micro 100	**16F229**
½ in	⅝ in	2 ½ in	½ in	Straight	45 °	Micro 100	**16F235**
6.00 mm	10.00 mm	57.00 mm	6.00 mm	Straight	45 °	Micro 100	**16F255**

AlTin Coated Finish
2 Flutes
19LL01

General Purpose Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Coated Finish						
2 Flutes						
⅛ in	1 in	3 in	⅛ in	30 °	—	**19LL01**
¼ in	½ in	2 in	¼ in	30 °	—	**19LA16**
¼ in	1 ⅛ in	3 in	¼ in	30 °	—	**19LK21**
¼ in	1 ½ in	4 in	¼ in	30 °	—	**19LL07**
½ in	⅝ in	2 ½ in	½ in	30 °	—	**19LA26**
½ in	1 in	3 in	½ in	30 °	—	**19LC53**
½ in	3 in	6 in	½ in	30 °	—	**19LL23**
¾ in	1 in	3 in	¾ in	30 °	—	**19LA30**
¾ in	1 ½ in	4 in	¾ in	30 °	—	**19LC64**
4 Flutes						
⅛ in	¼ in	1 ½ in	⅛ in	30 °	—	**19LA50**
⅛ in	½ in	1 ½ in	⅛ in	30 °	—	**19LF02**
3/16 in	⅝ in	2 in	3/16 in	30 °	—	**19LF10**
3/16 in	1 ⅛ in	3 in	3/16 in	30 °	—	**19LL50**
15/64 in	¾ in	2 ½ in	¼ in	30 °	—	**19LF16**
¼ in	½ in	2 in	¼ in	30 °	—	**19LA66**
¼ in	¾ in	2 ½ in	¼ in	30 °	—	**19LF20**
¼ in	1 ½ in	4 in	¼ in	30 °	—	**19LL55**
5/16 in	13/16 in	2 ½ in	5/16 in	30 °	—	**19LF25**
5/16 in	1 ⅝ in	4 in	5/16 in	30 °	—	**19LL61**
⅜ in	1 in	2 ½ in	⅜ in	30 °	—	**19LF32**
7/16 in	1 in	2 ¾ in	7/16 in	30 °	—	**19LF37**
½ in	1 in	3 in	½ in	30 °	—	**19LF47**
½ in	1 ¼ in	3 in	½ in	30 °	—	**19LF44**
½ in	1 ½ in	4 in	½ in	30 °	—	**19LK53**
½ in	2 in	4 in	½ in	30 °	—	**19LK56**
½ in	3 in	6 in	½ in	30 °	—	**19LL74**
½ in	5 in	8 in	½ in	30 °	—	**45XP76**
17/32 in	1 ¼ in	3 ½ in	9/16 in	30 °	—	**19LF56**
9/16 in	1 ¼ in	3 ½ in	9/16 in	30 °	—	**19LF52**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	—	**19LF58**
⅝ in	3 in	6 in	⅝ in	30 °	—	**19LL77**
11/16 in	1 ½ in	4 in	¾ in	30 °	—	**19LF62**
47/64 in	1 ½ in	4 in	¾ in	30 °	—	**19LF66**
¾ in	1 in	3 in	¾ in	30 °	—	**19LA80**
¾ in	1 ½ in	4 in	¾ in	30 °	—	**19LF70**
¾ in	1 in	4 in	¾ in	30 °	—	**19LF68**
¾ in	1 ½ in	4 in	¾ in	30 °	YG-1 Tool Company	**33TP69**
¾ in	2 ¼ in	5 in	¾ in	30 °	—	**19LK60**
¾ in	3 in	6 in	¾ in	30 °	—	**19LL80**
¾ in	4 in	7 in	¾ in	30 °	—	**19LL83**
¾ in	5 in	8 in	¾ in	30 °	—	**45XP84**
¾ in	6 in	9 in	¾ in	30 °	—	**45XP86**
1 in	1 ½ in	4 in	1 in	30 °	—	**19LF80**
1 in	1 in	4 in	1 in	30 °	—	**19LF78**
1 in	4 in	7 in	1 in	30 °	—	**19LL87**
4.00 mm	14.00 mm	51.00 mm	4.00 mm	30 °	—	**19LG04**
6.00 mm	19.00 mm	63.00 mm	6.00 mm	30 °	—	**19LG12**
8.00 mm	20.00 mm	63.00 mm	8.00 mm	30 °	—	**19LG16**
9.00 mm	22.00 mm	63.00 mm	10.00 mm	30 °	—	**19LG19**
14.00 mm	32.00 mm	90.00 mm	14.00 mm	30 °	—	**19LG27**
18.00 mm	38.00 mm	102.00 mm	18.00 mm	30 °	—	**19LG31**
20.00 mm	38.00 mm	102.00 mm	20.00 mm	30 °	—	**19LG33**
5 Flutes						
¾ in	3 in	6 in	¾ in	43 °	Widia Hanita	**48JE92**
1 in	4 in	7 in	1 in	43 °	Widia Hanita	**48JE98**
Bright (Uncoated) Finish						
2 Flutes						
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	**2TXG7**
17/64 in	¾ in	2 ½ in	5/16 in	30 °	OSG	**30L858**
9/32 in	¾ in	2 ½ in	5/16 in	30 °	OSG	**30L866**
5/16 in	13/16 in	2 ½ in	5/16 in	30 °	OSG	**2TXH2**
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	**2TXH4**
½ in	1 in	3 in	½ in	30 °	OSG	**2TXJ5**
½ in	1 in	3 in	½ in	35 °	Cleveland	**33FY66**
½ in	1 ½ in	6 in	½ in	35 °	Cleveland	**33FY71**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	OSG	**2TXK2**
⅝ in	1 ¼ in	3 ½ in	⅝ in	35 °	Cleveland	**33FY75**
⅝ in	2 ¼ in	5 in	⅝ in	35 °	Cleveland	**33FY79**
⅝ in	3 in	6 in	⅝ in	35 °	Cleveland	**33FY80**
¾ in	1 ½ in	4 in	¾ in	30 °	OSG	**2TXK6**
¾ in	1 ½ in	4 in	¾ in	35 °	Cleveland	**33FY82**
¾ in	2 ¼ in	5 in	¾ in	35 °	Cleveland	**33FY86**
¾ in	3 in	6 in	¾ in	35 °	Cleveland	**33FY87**
¾ in	4 in	7 in	¾ in	30 °	—	**19LL32**
1 in	1 ½ in	4 in	1 in	35 °	Cleveland	**33FY91**
1 in	2 ¼ in	5 in	1 in	35 °	Cleveland	**33FY95**
1 in	3 in	6 in	1 in	35 °	Cleveland	**33FY96**
4.00 mm	14.00 mm	51.00 mm	4.00 mm	30 °	OSG	**30L827**
5.00 mm	16.00 mm	51.00 mm	5.00 mm	30 °	OSG	**30L840**
6.00 mm	19.00 mm	64.00 mm	6.00 mm	30 °	OSG	**30L854**
8.00 mm	21.00 mm	64.00 mm	8.00 mm	30 °	OSG	**30L876**
9.00 mm	22.00 mm	70.00 mm	10.00 mm	30 °	OSG	**30L888**
10.00 mm	25.00 mm	70.00 mm	10.00 mm	30 °	OSG	**30L901**
12.00 mm	25.00 mm	76.00 mm	12.00 mm	30 °	OSG	**30L925**
16.00 mm	32.00 mm	89.00 mm	16.00 mm	30 °	OSG	**30L940**
18.00 mm	38.00 mm	102.00 mm	18.00 mm	30 °	—	**19LD15**
20.00 mm	38.00 mm	102.00 mm	20.00 mm	30 °	OSG	**30L954**
3 Flutes						
5/16 in	1 ¼ in	3 ¼ in	5/16 in	37 °	Widia Hanita	**48HW87**
⅜ in	2 ½ in	4 in	⅜ in	37 °	Widia Hanita	**48HX07**
½ in	1 in	3 in	½ in	30 °	—	**45XJ56**
½ in	1 ¼ in	3 in	½ in	37 °	Widia Hanita	**48HW70**
½ in	2 in	4 in	½ in	37 °	Widia Hanita	**48HW92**
½ in	2 ½ in	5 in	½ in	37 °	Widia Hanita	**48HX40**
¾ in	2 ½ in	5 in	¾ in	42 °	—	**43RE53**
¾ in	3 in	5 ¼ in	¾ in	37 °	Widia Hanita	**48HX46**
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	—	**19LF01**
⅛ in	½ in	1 ½ in	⅛ in	30 °	Widia Hanita	**48HD91**
⅛ in	¾ in	2 ¼ in	⅛ in	30 °	OSG	**2TYA2**
3/16 in	⅝ in	2 in	⅛ in	30 °	Widia Hanita	**48HD98**
3/16 in	⅝ in	2 in	3/16 in	30 °	OSG	**30M030**
3/16 in	⅝ in	2 in	3/16 in	30 °	—	**19LF09**
¼ in	¾ in	2 ½ in	¼ in	30 °	—	**19LF17**
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	**30M052**
¼ in	1 ⅛ in	3 in	¼ in	30 °	OSG	**2TYA4**
¼ in	1 ⅛ in	3 in	¼ in	Variable	—	**36NT05**
¼ in	1 in	4 in	¼ in	30 °	—	**19LL53**
¼ in	1 ½ in	4 in	¼ in	30 °	—	**19LL54**
5/16 in	13/16 in	2 ½ in	5/16 in	30 °	Widia Hanita	**48HE23**
5/16 in	13/16 in	2 ½ in	5/16 in	30 °	—	**19LF24**
⅜ in	⅞ in	2 ½ in	⅜ in	Variable	—	**36NZ47**
⅜ in	1 in	2 ½ in	⅜ in	30 °	—	**19LF30**
⅜ in	1 in	2 ½ in	⅜ in	30 °	Widia Hanita	**48HE34**
⅜ in	1 in	2 ½ in	⅜ in	30 °	Cleveland	**33GA32**
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	**30M092**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	OSG	**2TYA7**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	—	**19LK47**
⅜ in	1 ¾ in	4 in	⅜ in	30 °	Cleveland	**33GA42**
⅜ in	1 in	4 in	⅜ in	30 °	Cleveland	**33GA40**
⅜ in	1 ¾ in	4 in	⅜ in	30 °	OSG	**2TYD9**
7/16 in	1 in	2 ¾ in	7/16 in	30 °	—	**19LF36**
½ in	1 in	3 in	½ in	30 °	Widia Hanita	**48HE55**
½ in	1 in	3 in	½ in	30 °	—	**19LF41**
½ in	1 in	3 in	½ in	30 °	Cleveland	**33GA55**
½ in	1 in	3 in	½ in	30 °	OSG	**30M135**
½ in	1 ¼ in	3 in	½ in	30 °	—	**19LF45**
½ in	1 in	3 in	½ in	30 °	—	**19LF48**
½ in	1 in	3 in	½ in	Variable	—	**36NP31**
½ in	2 in	4 in	½ in	30 °	—	**19LK55**
½ in	2 in	4 in	½ in	30 °	Cleveland	**33GA63**
½ in	2 in	4 in	½ in	30 °	OSG	**2TYC1**
½ in	3 in	6 in	½ in	30 °	OSG	**2TYE3**
½ in	3 in	6 in	½ in	30 °	Cleveland	**33GA64**
½ in	4 in	7 in	½ in	30 °	—	**45XP73**
19/32 in	1 ¼ in	3 ½ in	⅝ in	30 °	—	**19LF53**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	—	**19LF57**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	Widia Hanita	**48HE80**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	Cleveland	**33GA68**
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	OSG	**30M145**
11/16 in	1 ½ in	4 in	¾ in	30 °	—	**19LF61**
11/16 in	1 ⅜ in	4 in	¾ in	30 °	OSG	**30M151**
¾ in	1 in	3 in	¾ in	30 °	OSG	**2TXW9**
¾ in	1 in	4 in	¾ in	30 °	—	**19LF67**
¾ in	1 ½ in	4 in	¾ in	30 °	—	**19LF69**
¾ in	1 ½ in	4 in	¾ in	30 °	Widia Hanita	**48HF05**
¾ in	1 ½ in	4 in	¾ in	30 °	Widia Hanita	**48HE95**
¾ in	1 ½ in	4 in	¾ in	Variable	—	**36NX81**
¾ in	1 ½ in	6 in	¾ in	30 °	—	**19LL88**
¾ in	3 in	6 in	¾ in	30 °	OSG	**2TYE7**
¾ in	3 in	6 in	¾ in	30 °	Widia Hanita	**48HE99**
¾ in	3 in	6 in	¾ in	Variable	—	**36NY06**
¾ in	4 in	7 in	¾ in	30 °	—	**19LL82**
13/16 in	1 ½ in	4 in	⅞ in	30 °	—	**19LF71**
⅞ in	1 ½ in	4 in	⅞ in	30 °	—	**19LF73**
1 in	1 ½ in	4 in	1 in	30 °	Widia Hanita	**48HF21**
1 in	1 ½ in	4 in	1 in	30 °	—	**19LF79**
1 in	1 ½ in	4 in	1 in	30 °	OSG	**30L995**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30 °	Widia Hanita	**48HF35**
1 in	2 ¼ in	5 in	1 in	30 °	Widia Hanita	**48HF30**
1 in	2 ¼ in	5 in	1 in	30 °	OSG	**2TXZ9**
4.00 mm	14.00 mm	51.00 mm	4.00 mm	30 °	OSG	**30M018**
5.00 mm	16.00 mm	51.00 mm	5.00 mm	30 °	OSG	**30M032**
6.00 mm	19.00 mm	64.00 mm	6.00 mm	30 °	OSG	**30M048**
8.00 mm	21.00 mm	64.00 mm	8.00 mm	30 °	OSG	**30M072**
9.00 mm	22.00 mm	70.00 mm	10.00 mm	30 °	OSG	**30M084**
10.00 mm	25.00 mm	70.00 mm	10.00 mm	30 °	OSG	**30M098**
12.00 mm	25.00 mm	76.00 mm	12.00 mm	30 °	OSG	**30M127**
14.00 mm	30.00 mm	89.00 mm	14.00 mm	30 °	OSG	**30M137**
16.00 mm	32.00 mm	89.00 mm	16.00 mm	30 °	OSG	**30M147**
18.00 mm	35.00 mm	102.00 mm	18.00 mm	30 °	OSG	**30M155**
20.00 mm	38.00 mm	102.00 mm	20.00 mm	30 °	OSG	**30M161**
22.00 mm	38.00 mm	102.00 mm	22.00 mm	30 °	—	**19LG34**

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For more information on end mills, see page 2277. See page 2280 for more information on square end mills.

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YG WIDIA HANITA OSG CLEVELAND

General Purpose Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
TiAlN Coated Finish						
2 Flutes						
1/16 in	½ in	2 in	⅛ in	30 °	Widia Hanita	48GZ08
⅛ in	½ in	1 ½ in	⅛ in	30 °	Widia Hanita	48GZ21
3/16 in	⅝ in	2 in	3/16 in	30 °	OSG	2TXG3
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	2TXG9
5/16 in	⅞ in	2 ½ in	5/16 in	35 °	Cleveland	33GJ16
⅜ in	⅝ in	2 in	⅜ in	30 °	OSG	54LD50
½ in	1 in	3 in	½ in	30 °	OSG	2TXJ7
9/16 in	1 ⅛ in	3 ½ in	9/16 in	30 °	OSG	2MYF9
9/16 in	1 ¼ in	3 ½ in	9/16 in	30 °	Widia Hanita	48HA06
⅝ in	1 ¼ in	3 ½ in	⅝ in	35 °	Cleveland	33GJ43
8.00 mm	21.00 mm	64.00 mm	8.00 mm	30 °	OSG	30L877
9.00 mm	22.00 mm	70.00 mm	10.00 mm	30 °	OSG	30L889
12.00 mm	25.00 mm	76.00 mm	12.00 mm	30 °	OSG	2TXJ3
14.00 mm	30.00 mm	89.00 mm	14.00 mm	30 °	OSG	30L933
4 Flutes						
1/16 in	7/64 in	1 ½ in	⅛ in	30 °	Widia Hanita	48HD82
3/32 in	⅜ in	1 ½ in	⅛ in	30 °	Widia Hanita	48HD85
⅛ in	½ in	1 ½ in	⅛ in	30 °	OSG	30M007
⅛ in	½ in	1 ½ in	⅛ in	30 °	Widia Hanita	48HD90
⅛ in	¾ in	2 ¼ in	⅛ in	30 °	Widia Hanita	48HD92
5/32 in	9/16 in	2 in	3/16 in	30 °	OSG	30M017
5/32 in	9/16 in	2 in	⅛ in	30 °	Widia Hanita	48HD96
3/16 in	⅝ in	2 in	3/16 in	30 °	OSG	30M031
3/16 in	⅝ in	2 in	3/16 in	30 °	Widia Hanita	48HD97
3/16 in	¾ in	2 ¼ in	3/16 in	30 °	OSG	2MYG3
7/32 in	⅝ in	2 ½ in	¼ in	30 °	OSG	30M041
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	30M053
¼ in	¾ in	2 ½ in	¼ in	30 °	Widia Hanita	48HE11
¼ in	¾ in	2 ½ in	¼ in	30 °	Cleveland	33GK53
¼ in	1 ½ in	4 in	¼ in	30 °	OSG	2TYD7
¼ in	1 ½ in	4 in	¼ in	30 °	Widia Hanita	48HE15
5/16 in	13/16 in	2 ½ in	5/16 in	30 °	OSG	30M071
5/16 in	1 ⅛ in	3 in	5/16 in	30 °	Widia Hanita	48HE24
5/16 in	1 ⅝ in	4 in	5/16 in	30 °	OSG	2MYG6
⅜ in	⅝ in	2 in	⅜ in	30 °	OSG	2TXW4
⅜ in	⅝ in	2 in	⅜ in	30 °	Widia Hanita	48HE31
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	30M093
⅜ in	1 in	2 ½ in	⅜ in	30 °	Widia Hanita	48HE33
⅜ in	1 ¾ in	4 in	⅜ in	30 °	Widia Hanita	48HE37
⅜ in	1 ¾ in	4 in	⅜ in	30 °	OSG	2TYE1
⅜ in	1 ¾ in	4 in	⅜ in	30 °	Cleveland	33GK87
7/16 in	⅝ in	2 ½ in	7/16 in	30 °	Cleveland	33GK92
7/16 in	1 in	2 ¾ in	7/16 in	30 °	Widia Hanita	48HE42
½ in	⅝ in	2 ½ in	½ in	30 °	Widia Hanita	48HE52
½ in	⅝ in	2 ½ in	½ in	30 °	OSG	2TXW7
½ in	1 in	3 in	½ in	30 °	OSG	30M136
½ in	1 in	3 in	½ in	30 °	Widia Hanita	48HE54
½ in	1 in	3 in	½ in	30 °	Cleveland	33GL01
½ in	1 in	3 in	½ in	30 °	Widia Hanita	48HE62
½ in	2 in	4 in	½ in	30 °	Widia Hanita	48HE56
½ in	2 in	4 in	½ in	30 °	OSG	2TYC2
½ in	3 in	6 in	½ in	30 °	OSG	2TYE4
½ in	3 in	6 in	½ in	30 °	Widia Hanita	48HE66
½ in	3 in	6 in	½ in	30 °	Widia Hanita	48HE58
9/16 in	1 ⅛ in	3 ½ in	9/16 in	30 °	OSG	30M142
9/16 in	1 ¼ in	3 ½ in	9/16 in	30 °	Cleveland	33GL12
⅝ in	¾ in	3 in	⅝ in	30 °	Widia Hanita	48HE77
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	OSG	30M146
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	Widia Hanita	48HE79
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	Cleveland	33GL14
⅝ in	2 ¼ in	5 in	⅝ in	30 °	Cleveland	33GL18
⅝ in	2 ¼ in	5 in	⅝ in	30 °	OSG	2TYC4
⅝ in	3 in	6 in	⅝ in	30 °	OSG	2TYE6
11/16 in	1 ⅜ in	4 in	¾ in	30 °	OSG	30M152
11/16 in	1 ⅜ in	4 in	¾ in	30 °	Widia Hanita	48HE91
¾ in	1 ½ in	4 in	¾ in	30 °	OSG	30M160
¾ in	1 ½ in	4 in	¾ in	30 °	Widia Hanita	48HE94
¾ in	1 ½ in	4 in	¾ in	30 °	Cleveland	33GL21
¾ in	3 in	6 in	¾ in	30 °	OSG	2TYE8
¾ in	4 in	7 in	¾ in	30 °	Widia Hanita	48HF01
13/16 in	1 ½ in	4 in	⅞ in	30 °	Widia Hanita	48HF11
⅞ in	1 ½ in	4 in	⅞ in	30 °	Widia Hanita	48HF12
⅞ in	1 ½ in	4 in	⅞ in	30 °	OSG	30M170
1 in	1 ½ in	4 in	1 in	30 °	Widia Hanita	48HF20
1 in	3 in	6 in	1 in	30 °	OSG	2TYC9
1 in	4 in	7 in	1 in	30 °	Widia Hanita	48HF26
1 in	4 in	7 in	1 in	30 °	Widia Hanita	48HF33
TiN Coated Finish						
2 Flutes						
18.00 mm	38.00 mm	102.00 mm	18.00 mm	30 °	—	45XG33
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	—	45XJ96
9/16 in	1 ¼ in	3 ½ in	9/16 in	30 °	—	45XK36
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	—	45XK38
¾ in	1 ½ in	4 in	¾ in	30 °	—	45XK42
¾ in	2 ¼ in	5 in	¾ in	30 °	—	45XN91
⅞ in	1 ½ in	4 in	⅞ in	30 °	—	45XK44
14.00 mm	32.00 mm	90.00 mm	14.00 mm	30 °	—	45XK80

MICRO 100 super carbide tools WIDIA HANITA OSG

General Purpose Roughing/Finishing Carbide Square End Mills

AlTin Finish
6 Flute
48JN52

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Finish						
2 Flutes						
9/64 in	½ in	2 in	3/16 in	30 °	Micro 100	14F943
5/32 in	9/16 in	2 in	3/16 in	30 °	Micro 100	14F949
¼ in	¾ in	2 ½ in	¼ in	30 °	Micro 100	14F981
½ in	1 in	3 in	½ in	30 °	Micro 100	14G012
½ in	1 in	3 in	½ in	30 °	Micro 100	16G295
1 in	4 in	7 in	1 in	30 °	—	55HG10
4.00 mm	25.00 mm	75.00 mm	4.00 mm	30 °	Micro 100	14T199
6.00 mm	18.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16G350
6.00 mm	25.00 mm	75.00 mm	6.00 mm	30 °	Micro 100	14T212
8.00 mm	14.00 mm	100.00 mm	8.00 mm	30 °	Micro 100	14T335
10.00 mm	25.00 mm	72.00 mm	10.00 mm	30 °	Micro 100	16E727
12.00 mm	22.00 mm	83.00 mm	12.00 mm	30 °	Micro 100	14G096
12.00 mm	30.00 mm	83.00 mm	12.00 mm	30 °	Micro 100	16E739
16.00 mm	26.00 mm	92.00 mm	16.00 mm	30 °	Micro 100	14G109
3 Flutes						
9/64 in	½ in	2 in	3/16 in	30 °	Micro 100	14F945
5/32 in	9/16 in	2 in	3/16 in	30 °	Micro 100	14F951
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	Micro 100	14G002
½ in	1 in	3 in	½ in	30 °	Micro 100	14G014
½ in	1 in	3 in	½ in	30 °	Micro 100	16G297
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	Micro 100	16G310
1.00 mm	3.00 mm	50.00 mm	4.00 mm	45 °	Widia Hanita	48KP55
1.50 mm	3.00 mm	50.00 mm	4.00 mm	45 °	Widia Hanita	48KP56
2.00 mm	3.00 mm	50.00 mm	4.00 mm	45 °	Widia Hanita	48KP57
3.00 mm	8.00 mm	50.00 mm	6.00 mm	45 °	Widia Hanita	48KP60
4.50 mm	11.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E686
4.00 mm	12.00 mm	50.00 mm	6.00 mm	45 °	Widia Hanita	48KP62
4.50 mm	14.00 mm	50.00 mm	6.00 mm	45 °	Widia Hanita	48KP63
5.00 mm	14.00 mm	50.00 mm	6.00 mm	45 °	Widia Hanita	48KP64
6.00 mm	16.00 mm	50.00 mm	6.00 mm	45 °	Widia Hanita	48KP65
7.00 mm	22.00 mm	63.00 mm	8.00 mm	30 °	Micro 100	16E711
8.00 mm	20.00 mm	63.00 mm	8.00 mm	45 °	Widia Hanita	48KP69
8.00 mm	30.00 mm	75.00 mm	8.00 mm	30 °	Micro 100	14T220
10.00 mm	38.00 mm	100.00 mm	10.00 mm	30 °	Micro 100	14T226
12.00 mm	25.00 mm	76.00 mm	12.00 mm	45 °	Widia Hanita	48KP67
14.00 mm	22.00 mm	83.00 mm	14.00 mm	30 °	Micro 100	14G105
16.00 mm	32.00 mm	89.00 mm	16.00 mm	45 °	Widia Hanita	48KP68
20.00 mm	38.00 mm	104.00 mm	20.00 mm	45 °	Widia Hanita	48KP70
4 Flutes						
9/64 in	½ in	2 in	3/16 in	30 °	Micro 100	14F947
¼ in	⅜ in	3 in	¼ in	50 °	Widia Hanita	48JN35
¼ in	⅝ in	3 in	¼ in	50 °	Widia Hanita	48JN42
¼ in	¾ in	2 ½ in	¼ in	30 °	Micro 100	14F985
5/16 in	½ in	4 in	5/16 in	50 °	Widia Hanita	48JN36
5/16 in	1 ⅛ in	4 in	5/16 in	50 °	Widia Hanita	48JN50
⅜ in	9/16 in	4 in	⅜ in	50 °	Widia Hanita	48JN37
⅜ in	⅝ in	2 in	⅜ in	30 °	Micro 100	14M476
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	Micro 100	14G004
½ in	⅝ in	2 ½ in	½ in	30 °	Micro 100	14M521
½ in	¾ in	5 in	½ in	50 °	Widia Hanita	48JN38
½ in	1 in	3 in	½ in	30 °	Micro 100	14G016
½ in	1 in	3 in	½ in	30 °	Micro 100	16G299
½ in	1 in	6 in	½ in	30 °	Micro 100	14G187
9/16 in	1 ¼ in	3 ½ in	9/16 in	30 °	Micro 100	16G306
¾ in	1 ½ in	4 in	¾ in	30 °	Micro 100	14G040
4.00 mm	8.00 mm	75.00 mm	6.00 mm	30 °	Micro 100	14T325
4.50 mm	11.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E688
4.00 mm	18.00 mm	50.00 mm	4.00 mm	30 °	Micro 100	16G342
5.50 mm	16.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E701
6.00 mm	12.00 mm	100.00 mm	6.00 mm	30 °	Micro 100	14T333
6.00 mm	18.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16G354
6.00 mm	25.00 mm	75.00 mm	6.00 mm	30 °	Micro 100	14T216
12.00 mm	30.00 mm	83.00 mm	12.00 mm	30 °	Micro 100	16E743
14.00 mm	35.00 mm	83.00 mm	14.00 mm	30 °	Micro 100	16E749
25.00 mm	50.00 mm	127.00 mm	25.00 mm	30 °	Micro 100	16E773

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MICRO 100 super carbide tools · WIDIA HANITA · OSG

General Purpose Roughing/Finishing Carbide Square End Mills

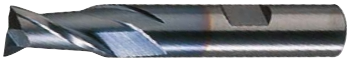
Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
5 Flutes						
⅜ in	15⁄16 in	4 in	⅜ in	50 °	Widia Hanita	48JN44
⅜ in	1 5⁄16 in	4 in	⅜ in	50 °	Widia Hanita	48JN51
4.00 mm	15.00 mm	57.00 mm	6.00 mm	45 °	Micro 100	16F152
6.00 mm	20.00 mm	57.00 mm	6.00 mm	45 °	Micro 100	16F162
8.00 mm	25.00 mm	63.00 mm	8.00 mm	45 °	Micro 100	16F168
16.00 mm	35.00 mm	92.00 mm	16.00 mm	45 °	Micro 100	16F192
20.00 mm	45.00 mm	104.00 mm	20.00 mm	45 °	Micro 100	16F205
6 Flutes						
½ in	1 ¼ in	5 in	½ in	50 °	Widia Hanita	48JN45
½ in	1 ¾ in	5 in	½ in	50 °	Widia Hanita	48JN52
⅝ in	1 9⁄16 in	5 in	⅝ in	50 °	Widia Hanita	48JN46
⅝ in	2 3⁄16 in	5 in	⅝ in	50 °	Widia Hanita	48JN53
¾ in	1 ⅞ in	6 in	¾ in	50 °	Widia Hanita	48JN47
¾ in	2 ⅝ in	6 in	¾ in	50 °	Widia Hanita	48JN54
1 in	3 ½ in	6 in	1 in	50 °	Widia Hanita	48JN55
Bright (Uncoated) Finish						
2 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	OSG	35CR03
⅛ in	1 in	3 in	⅛ in	30 °	OSG	35CT25
9⁄64 in	½ in	2 in	3⁄16 in	30 °	Micro 100	14T314
5⁄32 in	9⁄16 in	2 in	3⁄16 in	30 °	Micro 100	14F948
11⁄64 in	⅝ in	2 in	3⁄16 in	30 °	Micro 100	14F954
3⁄16 in	⅝ in	2 in	3⁄16 in	30 °	Micro 100	14F960
3⁄16 in	1 ⅛ in	3 in	3⁄16 in	30 °	Micro 100	14T160
7⁄32 in	⅝ in	2 ½ in	¼ in	30 °	Micro 100	14F972
¼ in	½ in	2 in	¼ in	30 °	OSG	35CR44
¼ in	¾ in	2 ½ in	¼ in	30 °	Micro 100	14F980
¼ in	1 ⅛ in	3 in	¼ in	30 °	OSG	35CR91
¼ in	1 ½ in	4 in	¼ in	30 °	OSG	35CT28
¼ in	1 in	4 in	¼ in	30 °	OSG	35CT29
⅜ in	¾ in	4 in	⅜ in	30 °	Micro 100	14G176
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	Micro 100	14F998
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	OSG	35CR93
⅜ in	1 ¾ in	4 in	⅜ in	30 °	Micro 100	14T172
7⁄16 in	3 in	6 in	7⁄16 in	30 °	OSG	35CT33
½ in	⅝ in	2 ½ in	½ in	30 °	Micro 100	14M516
½ in	1 in	3 in	½ in	30 °	Micro 100	14G011
½ in	1 in	4 in	½ in	30 °	OSG	35CR96
½ in	2 in	4 in	½ in	30 °	OSG	35CR95
½ in	3 in	6 in	½ in	30 °	Micro 100	14T180
½ in	3 in	6 in	½ in	30 °	OSG	35CT34
⅝ in	3 in	6 in	⅝ in	30 °	OSG	35CT35
¾ in	1 ½ in	4 in	¾ in	30 °	Micro 100	14G035
¾ in	1 ½ in	4 in	¾ in	30 °	Micro 100	16G319
¾ in	2 ¼ in	5 in	¾ in	30 °	OSG	35CR98
¾ in	3 in	6 in	¾ in	30 °	OSG	35CT36
1 in	1 ½ in	4 in	1 in	30 °	OSG	35CR02
3.50 mm	7.00 mm	51.00 mm	4.00 mm	30 °	OSG	35CR61
3.50 mm	7.00 mm	51.00 mm	4.00 mm	30 °	OSG	35CR77
3.50 mm	10.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E671
4.00 mm	8.00 mm	50.00 mm	4.00 mm	30 °	Micro 100	14G065
4.00 mm	8.00 mm	75.00 mm	6.00 mm	30 °	Micro 100	14T322
4.50 mm	9.00 mm	51.00 mm	5.00 mm	30 °	OSG	35CR63
4.00 mm	19.00 mm	57.00 mm	4.00 mm	30 °	OSG	35CT02
4.00 mm	25.00 mm	75.00 mm	4.00 mm	30 °	Micro 100	14T198
4.00 mm	28.00 mm	76.00 mm	4.00 mm	30 °	OSG	35CT49
5.00 mm	10.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	14G071
5.00 mm	10.00 mm	100.00 mm	6.00 mm	30 °	Micro 100	14T326
5.00 mm	16.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E689
5.00 mm	20.00 mm	57.00 mm	6.00 mm	45 °	Micro 100	16F153
5.00 mm	25.00 mm	64.00 mm	5.00 mm	30 °	OSG	35CT03
5.00 mm	32.00 mm	76.00 mm	5.00 mm	30 °	OSG	35CT50
6.00 mm	10.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	14G077
6.00 mm	12.00 mm	100.00 mm	6.00 mm	30 °	Micro 100	14T330
6.00 mm	16.00 mm	57.00 mm	6.00 mm	30 °	Micro 100	16E702
6.00 mm	20.00 mm	57.00 mm	6.00 mm	45 °	Micro 100	16F157
6.00 mm	25.00 mm	75.00 mm	6.00 mm	30 °	Micro 100	14T211
6.00 mm	28.00 mm	76.00 mm	6.00 mm	30 °	OSG	35CT04
6.00 mm	38.00 mm	102.00 mm	6.00 mm	30 °	OSG	35CT51
7.00 mm	12.00 mm	51.00 mm	8.00 mm	30 °	OSG	35CR66
8.00 mm	12.00 mm	51.00 mm	8.00 mm	30 °	OSG	35CR67
8.00 mm	16.00 mm	63.00 mm	8.00 mm	30 °	Micro 100	14G083
8.00 mm	25.00 mm	63.00 mm	8.00 mm	45 °	Micro 100	16F163
8.00 mm	29.00 mm	76.00 mm	8.00 mm	30 °	OSG	35CT05
8.00 mm	42.00 mm	102.00 mm	8.00 mm	30 °	OSG	35CT52
9.00 mm	14.00 mm	51.00 mm	10.00 mm	30 °	OSG	35CR68
10.00 mm	14.00 mm	51.00 mm	10.00 mm	30 °	OSG	35CR69
10.00 mm	14.00 mm	51.00 mm	10.00 mm	30 °	OSG	35CR85
10.00 mm	18.00 mm	120.00 mm	10.00 mm	30 °	Micro 100	14T338
10.00 mm	19.00 mm	72.00 mm	10.00 mm	30 °	Micro 100	14G089
10.00 mm	45.00 mm	102.00 mm	10.00 mm	30 °	OSG	35CT53
11.00 mm	16.00 mm	64.00 mm	11.00 mm	30 °	OSG	35CR86
12.00 mm	16.00 mm	64.00 mm	12.00 mm	30 °	OSG	35CR71
12.00 mm	22.00 mm	83.00 mm	12.00 mm	30 °	Micro 100	14G095
12.00 mm	22.00 mm	130.00 mm	12.00 mm	30 °	Micro 100	14T342
12.00 mm	30.00 mm	83.00 mm	12.00 mm	30 °	Micro 100	16E738
12.00 mm	30.00 mm	83.00 mm	12.00 mm	45 °	Micro 100	16F175
12.00 mm	76.00 mm	153.00 mm	12.00 mm	30 °	OSG	35CT54
14.00 mm	57.00 mm	127.00 mm	14.00 mm	30 °	OSG	35CT08
14.00 mm	76.00 mm	153.00 mm	14.00 mm	30 °	OSG	35CT55
16.00 mm	57.00 mm	127.00 mm	16.00 mm	30 °	OSG	35CT09
16.00 mm	76.00 mm	153.00 mm	16.00 mm	30 °	OSG	35CT56
18.00 mm	57.00 mm	127.00 mm	18.00 mm	30 °	OSG	35CT10
18.00 mm	76.00 mm	153.00 mm	18.00 mm	30 °	OSG	35CT57
20.00 mm	57.00 mm	127.00 mm	20.00 mm	30 °	OSG	35CT11
20.00 mm	76.00 mm	153.00 mm	20.00 mm	30 °	OSG	35CT58
25.00 mm	57.00 mm	127.00 mm	25.00 mm	30 °	OSG	35CT12
25.00 mm	76.00 mm	153.00 mm	25.00 mm	30 °	OSG	35CT59

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
4 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	OSG	35CV57
3⁄16 in	⅝ in	2 in	3⁄16 in	30 °	Micro 100	14F964
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	35CR24
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	35CV59
¼ in	1 in	4 in	¼ in	30 °	OSG	35CT38
5⁄16 in	13⁄16 in	2 ½ in	5⁄16 in	30 °	OSG	35CR26
5⁄16 in	13⁄16 in	2 ½ in	5⁄16 in	30 °	OSG	35CV60
5⁄16 in	1 in	4 in	5⁄16 in	30 °	OSG	35CT40
⅜ in	⅞ in	2 ½ in	⅜ in	30 °	Micro 100	14G003
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	35CR27
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	35CV61
½ in	1 in	3 in	½ in	30 °	OSG	35CV62
⅝ in	1 ¼ in	3 ½ in	⅝ in	30 °	OSG	35CV63
¾ in	1 ½ in	4 in	¾ in	15 °	OSG	35CP97
¾ in	1 ½ in	4 in	¾ in	30 °	Micro 100	14G039
¾ in	1 ½ in	4 in	¾ in	30 °	OSG	35CV64
5 Flutes						
5⁄16 in	½ in	2 in	5⁄16 in	45 °	OSG	35CU48
5⁄16 in	1 ¼ in	4 in	5⁄16 in	45 °	OSG	35CU49
⅜ in	⅝ in	2 in	⅜ in	45 °	OSG	35CU51
⅜ in	⅞ in	2 ½ in	⅜ in	45 °	OSG	35CU52
⅜ in	1 in	2 ½ in	⅜ in	45 °	OSG	35CU50
⅜ in	1 ½ in	4 in	⅜ in	45 °	OSG	35CU53
7⁄16 in	⅝ in	2 ½ in	7⁄16 in	45 °	OSG	35CU55
7⁄16 in	1 in	2 ¾ in	7⁄16 in	45 °	OSG	35CU54
7⁄16 in	2 in	4 in	7⁄16 in	45 °	OSG	35CU56
½ in	⅝ in	2 ½ in	½ in	45 °	OSG	35CU58
½ in	1 ¼ in	3 in	½ in	45 °	OSG	35CU59
½ in	1 in	3 in	½ in	45 °	OSG	35CU57
½ in	2 in	4 ½ in	½ in	45 °	OSG	35CU60
9⁄16 in	1 ⅛ in	3 ½ in	9⁄16 in	45 °	OSG	35CU61
⅝ in	¾ in	3 in	⅝ in	45 °	OSG	35CU63
⅝ in	1 ¼ in	3 ½ in	⅝ in	45 °	OSG	35CU62
¾ in	1 in	3 in	¾ in	45 °	OSG	35CU65
¾ in	1 ½ in	4 in	¾ in	45 °	OSG	35CU64
¾ in	2 ¼ in	5 in	¾ in	45 °	OSG	35CU66
6 Flutes						
5⁄32 in	9⁄16 in	2 in	3⁄16 in	15 °	OSG	35CP67
5⁄16 in	13⁄16 in	2 ½ in	5⁄16 in	30 °	OSG	35CV36
⅜ in	1 in	2 ½ in	⅜ in	30 °	OSG	35CV39
7⁄16 in	1 in	2 ¾ in	7⁄16 in	30 °	OSG	35CV42
9⁄16 in	1 ⅛ in	3 ½ in	9⁄16 in	30 °	OSG	35CV46
8 Flutes						
⅜ in	1 in	2 ½ in	⅜ in	15 °	OSG	35CP72
7⁄16 in	1 in	2 ¾ in	7⁄16 in	15 °	OSG	35CP73
½ in	1 in	3 in	½ in	15 °	OSG	35CP74
9⁄16 in	1 ⅛ in	3 ½ in	9⁄16 in	15 °	OSG	35CP75
10 Flutes						
⅝ in	1 ¼ in	3 ½ in	⅝ in	15 °	OSG	35CP76
11⁄16 in	1 ⅜ in	4 in	¾ in	15 °	OSG	35CP77
¾ in	1 ½ in	4 in	¾ in	15 °	OSG	35CP78
14 Flutes						
1 in	1 ½ in	4 in	1 in	15 °	OSG	35CP65
TiAlN Finish						
3 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	30 °	OSG	35CN78
9⁄64 in	½ in	2 in	3⁄16 in	30 °	OSG	35CN80
5⁄32 in	9⁄16 in	2 in	3⁄16 in	30 °	OSG	35CN82
11⁄64 in	9⁄16 in	2 in	3⁄16 in	30 °	OSG	35CN84
3⁄16 in	⅝ in	2 in	3⁄16 in	30 °	OSG	35CN86
4 Flutes						
½ in	2 in	4 in	½ in	30 °	Widia Hanita	287KW0
6.00 mm	9.00 mm	76.00 mm	6.00 mm	50 °	Widia Hanita	48LG29
6.00 mm	9.00 mm	76.00 mm	6.00 mm	50 °	Widia Hanita	48LF52
8.00 mm	12.00 mm	100.00 mm	8.00 mm	50 °	Widia Hanita	48LG34
TiN Finish						
2 Flutes						
1 in	4 in	7 in	1 in	30 °	—	55HG09
ZrN Finish						
3 Flutes						
¼ in	¾ in	2 ½ in	¼ in	45 °	Micro 100	16F093
5⁄16 in	13⁄16 in	2 ½ in	5⁄16 in	45 °	Micro 100	16F104
⅜ in	⅞ in	2 ½ in	⅜ in	45 °	Micro 100	16F110
½ in	1 in	3 in	½ in	45 °	Micro 100	16F118
⅝ in	1 ¼ in	3 ½ in	⅝ in	45 °	Micro 100	16F128
¾ in	1 ½ in	4 in	¾ in	45 °	Micro 100	16F138

OSG CLEVELAND WIDIA HANITA

Finishing Cobalt Square End Mills

TiCN Finish
2 Flutes
2NFK6



Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
¼ in	½ in	2 5/16 in	⅜ in	30°	OSG	**2PND1**
¼ in	1 ¼ in	3 1/16 in	⅜ in	45°	OSG	**35DG66**
⅜ in	9/16 in	2 ½ in	⅜ in	30°	Cleveland	**4LE58**
⅜ in	9/16 in	2 5/16 in	⅜ in	30°	OSG	**35DF58**
⅜ in	¾ in	3 5/16 in	⅜ in	30°	OSG	**35DG44**
⅜ in	1 in	2 ¾ in	⅜ in	30°	Cleveland	**438R88**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30°	Cleveland	**438R89**
½ in	13/16 in	2 ½ in	⅜ in	30°	OSG	**2PND5**
½ in	13/16 in	2 11/16 in	⅜ in	30°	Cleveland	**438R90**
½ in	1 ½ in	3 ½ in	½ in	30°	Cleveland	**438R91**
½ in	1 in	4 in	½ in	30°	OSG	**35DG45**
⅝ in	1 ⅛ in	3 ⅛ in	½ in	30°	OSG	**2PND8**
⅝ in	1 5/16 in	3 ¾ in	⅝ in	30°	Cleveland	**2NFJ9**
⅝ in	1 ⅝ in	3 ¾ in	⅝ in	45°	OSG	**35DG56**
⅝ in	1 ⅜ in	4 ⅝ in	⅝ in	30°	OSG	**35DG46**
⅝ in	2 in	4 ⅛ in	⅝ in	30°	OSG	**35DG29**
⅝ in	2 ½ in	4 ⅝ in	⅝ in	45°	OSG	**35DG71**
¾ in	1 5/16 in	3 9/16 in	¾ in	30°	OSG	**2TWP1**
¾ in	1 5/16 in	3 9/16 in	¾ in	30°	OSG	**35DF71**
¾ in	1 ⅝ in	5 ⅜ in	¾ in	30°	OSG	**35DG47**
¾ in	2 ¼ in	4 ½ in	¾ in	30°	OSG	**35DG30**
¾ in	2 ¼ in	4 ½ in	¾ in	30°	Cleveland	**438T18**
¾ in	3 in	5 ¼ in	¾ in	45°	OSG	**35DG72**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30°	Cleveland	**438T25**
1 in	1 ½ in	3 ¾ in	¾ in	30°	OSG	**2TWP3**
1 ⅛ in	1 ⅝ in	3 ⅞ in	⅞ in	30°	OSG	**35DF79**
1 in	1 ½ in	4 in	⅝ in	30°	Cleveland	**438T21**
1 in	1 ⅞ in	4 ⅛ in	¾ in	45°	OSG	**35DG59**
1 ½ in	1 ⅝ in	4 ⅛ in	1 ¼ in	30°	OSG	**33PC66**
1 ¼ in	1 ⅝ in	4 ⅛ in	1 in	30°	OSG	**2TWP6**
1 ¾ in	1 ⅝ in	4 ⅛ in	1 ¼ in	30°	OSG	**35DF83**
1 in	1 ⅝ in	4 ½ in	1 in	30°	Cleveland	**4LE77**
1 ¼ in	2 in	4 ½ in	1 ¼ in	45°	OSG	**35DG62**
1 ¾ in	2 in	4 ½ in	1 ¼ in	45°	OSG	**35DG64**
1 in	2 in	4 ½ in	1 in	45°	OSG	**35DG61**
1 in	2 ½ in	7 ¼ in	1 in	30°	OSG	**35DG49**
1 ½ in	3 in	5 ½ in	1 ¼ in	30°	OSG	**35DG36**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30°	OSG	**35DG35**
1 ¾ in	3 in	5 ½ in	1 ¼ in	30°	OSG	**35DG37**
1 ¼ in	3 in	7 ¼ in	1 ¼ in	30°	OSG	**35DG50**
1 ½ in	4 in	6 ½ in	1 ¼ in	45°	OSG	**35DG75**
1 in	4 in	6 ½ in	1 in	45°	OSG	**35DG73**
2 in	1 ⅝ in	4 ⅛ in	1 ¼ in	30°	OSG	**2TWP8**
2 in	3 in	6 ¾ in	2 in	30°	OSG	**35DG39**
2 in	4 in	6 ½ in	1 ¼ in	45°	OSG	**35DG76**
3.50 mm	11.11 mm	58.70 mm	9.52 mm	30°	OSG	**35DG15**
4.00 mm	11.11 mm	58.70 mm	9.52 mm	30°	OSG	**14X373**
4.50 mm	11.11 mm	58.70 mm	9.52 mm	30°	OSG	**35DG16**
5.00 mm	12.70 mm	58.70 mm	9.52 mm	30°	OSG	**14X374**
5.50 mm	12.70 mm	58.70 mm	9.52 mm	30°	OSG	**35DG17**
6.00 mm	12.70 mm	58.70 mm	9.52 mm	30°	OSG	**35DF90**
7.00 mm	14.28 mm	58.70 mm	9.52 mm	30°	OSG	**35DF91**
8.00 mm	14.28 mm	58.70 mm	9.52 mm	30°	OSG	**14X375**
8.50 mm	14.28 mm	58.70 mm	9.52 mm	30°	OSG	**35DG20**
9.00 mm	14.28 mm	58.70 mm	9.52 mm	30°	OSG	**35DF92**
9.50 mm	14.28 mm	58.70 mm	9.52 mm	30°	OSG	**35DG21**
10.00 mm	20.63 mm	63.50 mm	9.52 mm	30°	OSG	**14X376**
11.50 mm	20.63 mm	63.50 mm	9.52 mm	30°	OSG	**35DG23**
12.00 mm	25.40 mm	76.20 mm	12.70 mm	30°	OSG	**35DF94**
12.50 mm	28.57 mm	79.30 mm	12.70 mm	30°	OSG	**35DG24**
13.00 mm	28.57 mm	79.30 mm	12.70 mm	30°	OSG	**35DF95**
13.50 mm	28.57 mm	79.30 mm	12.70 mm	30°	OSG	**35DG25**
14.50 mm	28.57 mm	79.30 mm	12.70 mm	30°	OSG	**35DG26**
15.00 mm	28.57 mm	79.30 mm	12.70 mm	30°	OSG	**35DF97**
16.00 mm	33.33 mm	87.30 mm	15.87 mm	30°	OSG	**35DF98**
17.00 mm	33.33 mm	87.30 mm	15.87 mm	30°	OSG	**35DF99**
18.00 mm	33.33 mm	87.30 mm	15.87 mm	30°	OSG	**35DG01**
19.00 mm	33.33 mm	90.40 mm	19.05 mm	30°	OSG	**35DG02**
20.00 mm	38.10 mm	95.20 mm	19.05 mm	30°	OSG	**35DG03**
21.00 mm	38.10 mm	95.20 mm	19.05 mm	30°	OSG	**35DG04**
24.00 mm	41.27 mm	104.70 mm	25.40 mm	30°	OSG	**35DG07**
25.00 mm	41.27 mm	104.70 mm	25.40 mm	30°	OSG	**35DG08**
28.00 mm	41.27 mm	104.70 mm	25.40 mm	30°	OSG	**35DG09**
32.00 mm	41.27 mm	104.70 mm	31.75 mm	30°	OSG	**35DG10**
36.00 mm	41.27 mm	104.70 mm	31.75 mm	30°	OSG	**35DG11**
45.00 mm	41.27 mm	104.70 mm	31.75 mm	30°	OSG	**35DG13**
50.00 mm	41.27 mm	104.70 mm	31.75 mm	30°	OSG	**35DG14**
4 Flutes						
¼ in	¼ in	2 1/16 in	⅜ in	30°	OSG	**35DJ19**
¼ in	⅝ in	2 7/16 in	⅜ in	30°	OSG	**2TWU5**
¼ in	⅝ in	2 7/16 in	⅜ in	30°	Cleveland	**4LE67**
¼ in	1 ¼ in	3 1/16 in	⅜ in	30°	Cleveland	**31C099**
¼ in	1 ¾ in	3 9/16 in	⅜ in	30°	OSG	**35DK61**
⅜ in	⅜ in	2 ⅛ in	⅜ in	30°	OSG	**35DJ20**
⅜ in	¾ in	2 ½ in	⅜ in	30°	OSG	**2TWU7**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30°	Cleveland	**31C126**
⅜ in	2 ½ in	4 ¼ in	⅜ in	30°	Cleveland	**31C129**
⅜ in	2 ½ in	4 ¼ in	⅜ in	30°	OSG	**35DK63**
13/32 in	1 in	2 11/16 in	⅜ in	30°	Cleveland	**31C134**
7/16 in	1 in	2 11/16 in	⅜ in	30°	OSG	**2TWU8**
½ in	½ in	2 ½ in	½ in	30°	OSG	**35DH95**
½ in	1 in	2 11/16 in	⅜ in	30°	OSG	**35DJ98**
½ in	1 ¼ in	3 ¼ in	½ in	30°	OSG	**2TWU9**
½ in	2 in	4 in	½ in	35°	Widia Hanita	**48HH14**
½ in	3 in	5 in	½ in	30°	Cleveland	**31C149**
11/16 in	1 ⅝ in	3 ¾ in	⅝ in	30°	OSG	**2TWZ4**
¾ in	¾ in	3 in	¾ in	30°	OSG	**35DJ06**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30°	OSG	**2TWX6**
¾ in	2 ¼ in	4 ½ in	¾ in	30°	OSG	**35DJ50**
¾ in	3 in	5 ¼ in	¾ in	30°	Cleveland	**31C157**
¾ in	3 in	5 ¼ in	¾ in	30°	OSG	**35DJ35**
¾ in	4 in	6 ¼ in	¾ in	30°	OSG	**35DJ68**
1 in	1 ⅞ in	4 ⅛ in	¾ in	30°	OSG	**2TWX8**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30°	OSG	**2TXA3**
1 in	2 in	4 ½ in	1 in	30°	OSG	**2TWZ9**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30°	OSG	**35DJ55**
1 ¼ in	4 in	6 ½ in	1 ¼ in	30°	Cleveland	**438N99**
1 in	4 in	6 ½ in	1 in	30°	Cleveland	**31C164**
1 ¼ in	6 in	8 ½ in	1 ¼ in	30°	OSG	**35DJ78**
1 ½ in	8 in	11 ½ in	1 ¼ in	30°	Cleveland	**437Z23**
2 in	2 in	5 ¾ in	2 in	30°	OSG	**35DK30**
2 in	4 in	7 ¾ in	2 in	30°	OSG	**35DK54**
3.50 mm	11.11 mm	60.30 mm	9.52 mm	30°	OSG	**35DH65**
4.00 mm	11.11 mm	60.30 mm	9.52 mm	30°	OSG	**35DH38**
4.50 mm	12.70 mm	60.30 mm	9.52 mm	30°	OSG	**35DH66**
5.00 mm	14.28 mm	61.90 mm	9.52 mm	30°	OSG	**35DH39**
5.50 mm	14.28 mm	61.90 mm	9.52 mm	30°	OSG	**35DH67**
6.00 mm	15.87 mm	61.90 mm	9.52 mm	30°	OSG	**35DH40**
6.50 mm	15.87 mm	61.90 mm	9.52 mm	30°	OSG	**35DH68**
7.00 mm	17.46 mm	63.50 mm	9.52 mm	30°	OSG	**35DH41**
7.50 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH69**
8.00 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH42**
8.50 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH70**
9.00 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH43**
9.50 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH71**
10.00 mm	19.05 mm	63.50 mm	9.52 mm	30°	OSG	**35DH44**
10.50 mm	25.40 mm	68.20 mm	9.52 mm	30°	OSG	**35DH72**
11.00 mm	25.40 mm	68.20 mm	9.52 mm	30°	OSG	**35DH45**
11.50 mm	25.40 mm	68.20 mm	9.52 mm	30°	OSG	**35DH73**
12.00 mm	31.75 mm	82.50 mm	12.70 mm	30°	OSG	**35DH46**
13.00 mm	31.75 mm	82.50 mm	12.70 mm	30°	OSG	**35DH47**
13.50 mm	34.92 mm	85.70 mm	12.70 mm	30°	OSG	**35DH75**
14.00 mm	34.92 mm	85.70 mm	12.70 mm	30°	OSG	**35DH48**
15.00 mm	34.92 mm	85.70 mm	12.70 mm	30°	OSG	**35DH49**
16.00 mm	41.27 mm	95.20 mm	15.87 mm	30°	OSG	**35DH50**
17.00 mm	41.27 mm	95.20 mm	15.87 mm	30°	OSG	**35DH51**
18.00 mm	41.27 mm	95.20 mm	15.87 mm	30°	OSG	**35DH52**
19.00 mm	41.27 mm	98.40 mm	19.05 mm	30°	OSG	**35DH53**
20.00 mm	47.62 mm	104.70 mm	19.05 mm	30°	OSG	**35DH54**
21.00 mm	47.62 mm	104.70 mm	19.05 mm	30°	OSG	**35DH55**
22.00 mm	47.62 mm	104.70 mm	22.22 mm	30°	OSG	**35DH56**
25.00 mm	50.80 mm	114.30 mm	25.40 mm	30°	OSG	**35DH59**
TiCN Finish						
2 Flutes						
¼ in	½ in	2 7/16 in	⅜ in	30°	Cleveland	**2NFK6**
½ in	1 in	3 ¼ in	½ in	30°	Cleveland	**2NFL1**
¾ in	1 5/16 in	3 ⅝ in	½ in	30°	Cleveland	**438T16**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30°	Cleveland	**438T43**
1 in	1 ½ in	4 ⅛ in	¾ in	30°	Cleveland	**438T40**
1 in	1 ⅝ in	4 ½ in	1 in	30°	Cleveland	**2NFL4**
1 in	2 ¼ in	4 ¾ in	1 in	30°	Cleveland	**438T41**
4 Flutes						
⅛ in	⅜ in	2 5/16 in	⅜ in	30°	Cleveland	**2NFN7**
3/16 in	½ in	2 ⅜ in	⅜ in	30°	Cleveland	**2NFN8**
¼ in	⅝ in	2 7/16 in	⅜ in	30°	Cleveland	**2NFN9**
¼ in	1 ¼ in	3 1/16 in	⅜ in	30°	Cleveland	**31C102**
⅜ in	⅜ in	2 ⅛ in	⅜ in	30°	OSG	**35DJ21**
⅜ in	¾ in	2 ½ in	⅜ in	30°	Cleveland	**2NFP2**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30°	Cleveland	**31C128**
½ in	½ in	2 ½ in	½ in	30°	OSG	**35DH96**
½ in	1 ¼ in	3 ¼ in	½ in	30°	Cleveland	**2NFP4**
½ in	2 in	4 in	½ in	30°	Cleveland	**31C148**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30°	Cleveland	**2NFP6**
¾ in	2 ¼ in	4 ½ in	¾ in	30°	OSG	**35DJ51**
¾ in	4 in	6 ¼ in	¾ in	30°	OSG	**35DJ69**
1 ½ in	2 in	4 ½ in	1 ¼ in	30°	Cleveland	**2MZT7**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30°	Cleveland	**2MZT5**
1 in	3 in	5 ½ in	1 in	30°	OSG	**35DJ53**
1 in	4 in	6 ½ in	1 in	30°	Cleveland	**437Z16**
1 in	6 in	8 ½ in	1 in	30°	OSG	**35DJ75**
6 Flutes						
½ in	1 ¼ in	3 ¼ in	½ in	30°	Cleveland	**2MZR8**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30°	Cleveland	**2MZT1**
¾ in	3 in	5 ¼ in	¾ in	30°	Cleveland	**437Z15**
1 ½ in	2 in	4 ½ in	1 ¼ in	30°	Cleveland	**2MZT8**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30°	Cleveland	**2MZT6**
1 in	2 in	4 ½ in	1 in	30°	Cleveland	**2MZT4**
1 in	3 in	5 ½ in	1 in	30°	OSG	**35DJ54**
1 ¼ in	6 in	8 ½ in	1 ¼ in	30°	Cleveland	**437Z50**
1 in	6 in	8 ½ in	1 in	30°	Cleveland	**437Z48**
1 ½ in	8 in	11 ½ in	1 ¼ in	30°	Cleveland	**437Z52**
TiN Finish						
2 Flutes						
¼ in	½ in	2 7/16 in	⅜ in	30°	Cleveland	**31C069**
⅜ in	9/16 in	2 ½ in	⅜ in	30°	Cleveland	**31C077**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30°	Cleveland	**438R99**
½ in	1 ½ in	3 ½ in	½ in	30°	Cleveland	**438T02**
½ in	1 in	3 ¼ in	½ in	30°	Cleveland	**31C083**
½ in	2 in	4 in	½ in	30°	Cleveland	**438T03**
9/16 in	1 ⅛ in	3 ⅜ in	½ in	30°	Cleveland	**438T04**
¾ in	1 5/16 in	3 ⅝ in	½ in	30°	Cleveland	**438T06**
¾ in	1 ¾ in	4 in	¾ in	30°	Cleveland	**438T26**
¾ in	2 ¼ in	4 ½ in	¾ in	30°	Cleveland	**438T27**
⅞ in	1 ½ in	4 ⅛ in	¾ in	30°	Cleveland	**438T29**
1 ¼ in	1 ⅝ in	3 ⅞ in	¾ in	30°	Cleveland	**438T34**
1 in	1 ½ in	4 ⅛ in	¾ in	30°	Cleveland	**438T31**
1 in	1 ⅝ in	4 ½ in	1 in	30°	Cleveland	**437Y58**
4 Flutes						
⅛ in	⅜ in	2 5/16 in	⅜ in	30°	OSG	**2MYE1**
⅛ in	⅜ in	2 5/16 in	⅜ in	30°	OSG	**35DJ92**
¼ in	⅝ in	2 7/16 in	⅜ in	30°	OSG	**2MYE3**

CONTINUED

For more information on end mills, see page 2277. See page 2280 for more information on square end mills.

CONTINUED

Finishing Cobalt Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
¼ in	⅝ in	2 7⁄16 in	⅜ in	30 °	Cleveland	**31C105**
¼ in	1 ¼ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**31C101**
¼ in	1 ¾ in	3 9⁄16 in	⅜ in	30 °	Cleveland	**31C104**
⅜ in	¾ in	2 ½ in	⅜ in	30 °	OSG	**2TWY8**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**31C127**
⅜ in	2 ½ in	4 ¼ in	⅜ in	30 °	Cleveland	**31C130**
½ in	1 ¼ in	3 ¼ in	½ in	30 °	OSG	**2TWZ1**
½ in	1 ¼ in	3 ¼ in	½ in	30 °	OSG	**35DJ99**
½ in	2 in	4 in	½ in	30 °	Cleveland	**31C147**
½ in	2 in	4 in	½ in	30 °	Cleveland	**437Z04**
½ in	3 in	5 in	½ in	30 °	Cleveland	**31C150**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	OSG	**2TWZ6**
¾ in	3 in	5 ¼ in	¾ in	30 °	Cleveland	**31C159**
¾ in	4 in	6 ¼ in	¾ in	30 °	Cleveland	**437Z31**
1 in	1 ⅞ in	4 ⅛ in	¾ in	30 °	OSG	**35DK17**
1 in	2 in	4 ½ in	1 in	30 °	OSG	**2TXA1**
1 in	6 in	8 ½ in	1 in	30 °	Cleveland	**437Z33**
6 Flutes						
½ in	1 ¼ in	3 ¼ in	½ in	30 °	Cleveland	**2MZV5**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	30 °	Cleveland	**2MZW2**
¾ in	4 in	6 ¼ in	¾ in	30 °	Cleveland	**437Z32**
1 ½ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**2MZX9**
1 in	2 in	4 ½ in	1 in	30 °	Cleveland	**2MZX1**

Roughing Cobalt Square End Mills

TIAIN Finish
3 Flutes
35DE24

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
4 Flutes						
3⁄16 in	½ in	2 ⅜ in	⅜ in	30 °	OSG	**35DE14**
3⁄16 in	5 in	2 ⅜ in	⅜ in	30 °	Cleveland	**437V71**
¼ in	¼ in	2 1⁄16 in	⅜ in	30 °	Cleveland	**4YGZ8**
¼ in	⅝ in	2 7⁄16 in	⅝ in	30 °	OSG	**35DE89**
¼ in	¾ in	2 ½ in	⅜ in	25 °	OSG	**2PMY3**
¼ in	1 ¼ in	3 1⁄16 in	⅜ in	30 °	OSG	**2PMV8**
⅜ in	1 ½ in	3 ¼ in	⅜ in	30 °	Cleveland	**2NAK6**
½ in	1 ¼ in	3 ¼ in	½ in	30 °	Cleveland	**4YHA2**
½ in	2 in	4 in	½ in	30 °	Cleveland	**4YGY8**
½ in	3 in	5 in	½ in	30 °	OSG	**35DE27**
½ in	3 in	5 in	½ in	30 °	Cleveland	**437V79**
⅝ in	2 ½ in	4 ⅝ in	⅝ in	25 °	OSG	**2PMY1**
⅝ in	2 in	4 ⅛ in	⅝ in	30 °	OSG	**35DE16**
⅝ in	3 in	5 ⅛ in	⅝ in	30 °	OSG	**35DE08**
¾ in	1 ⅝ in	3 ⅞ in	¾ in	25 °	OSG	**2PMY2**
¾ in	2 ½ in	4 ½ in	¾ in	30 °	OSG	**35DE17**
¾ in	2 ¼ in	4 ½ in	¾ in	30 °	OSG	**35DE09**
¾ in	3 in	5 ¼ in	⅝ in	30 °	OSG	**35DE87**
¾ in	4 in	6 ¼ in	¾ in	30 °	OSG	**35DE11**
1 ¼ in	1 ¼ in	3 ¾ in	1 ¼ in	25 °	OSG	**35DE41**
1 in	2 in	4 ¼ in	¾ in	25 °	OSG	**35DF31**
5 Flutes						
1 in	1 in	3 ½ in	1 in	30 °	Cleveland	**437W21**
1 in	2 in	4 ½ in	¾ in	30 °	OSG	**2PMW5**
1 ⅛ in	2 in	4 ½ in	1 in	25 °	OSG	**35DF35**
1 ⅛ in	2 in	4 ½ in	1 in	30 °	OSG	**35DE90**
1 in	2 in	4 ½ in	1 in	30 °	Cleveland	**437W28**
1 in	3 in	5 ¼ in	1 in	30 °	OSG	**35DE53**
1 in	4 in	6 ½ in	1 in	30 °	OSG	**2PMT5**
TiAlN Finish						
3 Flutes						
⅜ in	⅜ in	2 5⁄32 in	⅜ in	30 °	OSG	**35DE24**
½ in	½ in	2 ½ in	½ in	30 °	OSG	**2PMU4**
¾ in	¾ in	2 ⅞ in	¾ in	30 °	OSG	**2PMV2**
4 Flutes						
⅜ in	¾ in	2 ½ in	⅜ in	30 °	Cleveland	**2NAN6**
⅜ in	⅞ in	2 ⅝ in	⅜ in	30 °	OSG	**2PMW3**
⅜ in	2 in	4 in	½ in	30 °	Cleveland	**437W12**
⅝ in	⅝ in	2 ¾ in	⅝ in	30 °	Cleveland	**437W06**
⅝ in	1 ⅝ in	3 ¾ in	⅝ in	30 °	Cleveland	**437W07**
6 Flutes						
1 ½ in	2 in	4 ½ in	1 ¼ in	30 °	OSG	**2MYP1**
1 ¼ in	2 in	4 ½ in	1 ¼ in	30 °	Cleveland	**437W01**
1 ½ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**2MYP2**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30 °	OSG	**2PMX6**
1 ¼ in	3 in	5 ½ in	1 ¼ in	30 °	Cleveland	**2RGZ8**
1 ½ in	4 in	6 ½ in	1 ¼ in	30 °	OSG	**2MYP3**
1 ¼ in	4 in	6 ½ in	1 ¼ in	30 °	OSG	**2MYN9**
8 Flutes						
2 in	6 in	9 ¾ in	2 in	30 °	OSG	**2MYP6**

Cobalt Double-End Finishing Square End Mills

Bright
(Uncoated) Finish
2 Flutes
4LE96

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
¼ in	½ in	3 ⅛ in	⅜ in	30 °	OSG	**2TWR4**
½ in	13⁄16 in	4 ⅛ in	½ in	30 °	Cleveland	**4LE92**
¾ in	1 5⁄16 in	5 ⅝ in	¾ in	30 °	Cleveland	**4LU22**
¾ in	1 5⁄16 in	5 in	¾ in	30 °	OSG	**2TWR9**
⅞ in	1 9⁄16 in	6 ⅛ in	⅞ in	30 °	Cleveland	**2NFX7**
1 in	1 ⅝ in	5 ⅞ in	1 in	30 °	OSG	**2TWT1**
3.50 mm	11.11 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM56**
4.00 mm	11.11 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM30**
4.50 mm	11.11 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM57**
5.00 mm	12.70 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM31**
6.00 mm	12.70 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM32**
7.00 mm	14.28 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM33**
8.00 mm	14.28 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM34**
9.50 mm	14.28 mm	79.30 mm	9.52 mm	30 °	OSG	**35DM62**
10.00 mm	20.63 mm	95.20 mm	12.70 mm	30 °	OSG	**35DM36**
12.00 mm	20.63 mm	95.20 mm	12.70 mm	30 °	OSG	**35DM38**
13.00 mm	28.57 mm	114.30 mm	15.87 mm	30 °	OSG	**35DM39**
13.50 mm	28.57 mm	114.30 mm	15.87 mm	30 °	OSG	**35DM66**
14.50 mm	28.57 mm	114.30 mm	15.87 mm	30 °	OSG	**35DM67**
15.00 mm	28.57 mm	114.30 mm	15.87 mm	30 °	OSG	**35DM41**
16.00 mm	33.33 mm	127.00 mm	19.05 mm	30 °	OSG	**35DM42**
17.00 mm	33.33 mm	127.00 mm	19.05 mm	30 °	OSG	**35DM43**
23.00 mm	41.27 mm	149.20 mm	25.40 mm	30 °	OSG	**35DM49**
24.00 mm	41.27 mm	149.20 mm	25.40 mm	30 °	OSG	**35DM50**
25.00 mm	41.27 mm	149.20 mm	25.40 mm	30 °	OSG	**35DM51**
3 Flutes						
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	OSG	**35DM68**
¼ in	⅝ in	3 ⅜ in	⅜ in	30 °	OSG	**35DM70**
⅜ in	¾ in	3 ½ in	⅜ in	30 °	OSG	**35DM72**
4 Flutes						
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**4LE96**
3⁄16 in	9⁄32 in	2 in	3⁄16 in	30 °	Cleveland	**31C191**
3⁄16 in	½ in	3 ¼ in	⅜ in	30 °	Cleveland	**4LE98**
¼ in	⅝ in	3 ⅜ in	⅜ in	30 °	Cleveland	**4LU10**
⅜ in	¾ in	3 ½ in	⅜ in	30 °	Cleveland	**4LU14**
½ in	1 in	4 ⅛ in	½ in	30 °	OSG	**2TXC4**
¾ in	1 ⅝ in	5 ⅝ in	¾ in	30 °	OSG	**2TXD5**
1 in	1 ⅞ in	6 ⅜ in	1 in	30 °	Cleveland	**4LU26**
1 in	1 ⅞ in	6 ⅜ in	1 in	30 °	OSG	**2MYA9**
TiCN Finish						
2 Flutes						
⅛ in	3⁄16 in	2 in	3⁄16 in	30 °	Cleveland	**438M53**
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**2NFY1**
5⁄32 in	7⁄16 in	3 ⅛ in	⅜ in	30 °	Cleveland	**2NFY2**
3⁄16 in	7⁄16 in	3 ¼ in	⅜ in	30 °	Cleveland	**2NFY3**
¼ in	½ in	3 ⅜ in	⅜ in	30 °	Cleveland	**2NFY5**
5⁄16 in	9⁄16 in	3 ½ in	⅜ in	30 °	Cleveland	**2NFY7**
11⁄32 in	9⁄16 in	3 ½ in	⅜ in	30 °	Cleveland	**2NFY8**
⅜ in	9⁄16 in	3 ½ in	⅜ in	30 °	Cleveland	**2NFY9**
½ in	13⁄16 in	4 ⅛ in	½ in	30 °	Cleveland	**2NFZ4**
⅝ in	1 ⅛ in	5 in	⅝ in	30 °	Cleveland	**2NFZ5**
¾ in	1 5⁄16 in	5 ⅝ in	¾ in	30 °	Cleveland	**2NFZ7**
1 in	1 ⅝ in	6 ⅜ in	1 in	30 °	Cleveland	**2NGA2**
4 Flutes						
⅛ in	⅜ in	2 ¼ in	3⁄16 in	30 °	Cleveland	**31C189**
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**2NGD5**
5⁄32 in	15⁄64 in	2 in	3⁄16 in	30 °	Cleveland	**438M65**
5⁄32 in	7⁄16 in	3 ⅛ in	⅜ in	30 °	Cleveland	**2NGD6**
3⁄16 in	9⁄32 in	2 in	3⁄16 in	30 °	Cleveland	**438M66**
¼ in	⅝ in	3 ⅜ in	⅜ in	30 °	Cleveland	**2NGD9**
5⁄16 in	¾ in	3 ½ in	⅜ in	30 °	Cleveland	**2NGE2**
⅜ in	¾ in	3 ½ in	⅜ in	30 °	Cleveland	**2NGE4**
½ in	1 in	4 ⅛ in	½ in	30 °	Cleveland	**2NGE8**
⅝ in	1 ⅜ in	5 in	⅝ in	30 °	Cleveland	**2NGE9**
¾ in	1 ⅝ in	5 ⅝ in	¾ in	30 °	Cleveland	**2NGF2**
1 in	1 ⅞ in	6 ⅜ in	1 in	30 °	Cleveland	**2NGF6**
TiN Finish						
2 Flutes						
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**31C024**
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	OSG	**35DM01**
¼ in	½ in	3 ⅜ in	⅜ in	30 °	Cleveland	**31C028**
⅜ in	9⁄16 in	3 ½ in	⅜ in	30 °	Cleveland	**31C030**
½ in	13⁄16 in	3 ¾ in	½ in	30 °	OSG	**35DM06**
½ in	13⁄16 in	4 ⅛ in	½ in	30 °	Cleveland	**31C033**
⅝ in	1 ⅛ in	4 ½ in	⅝ in	30 °	OSG	**35DM07**
⅝ in	1 ⅛ in	5 in	⅝ in	30 °	Cleveland	**31C034**
⅝ in	1 ⅛ in	5 in	⅝ in	30 °	Cleveland	**437Z92**
¾ in	1 5⁄16 in	5 ⅝ in	¾ in	30 °	Cleveland	**437Z94**
¾ in	1 5⁄16 in	5 in	¾ in	30 °	OSG	**35DM08**
⅞ in	1 9⁄16 in	6 ⅛ in	⅞ in	30 °	Cleveland	**437Z96**
1 in	1 ⅝ in	6 ⅜ in	1 in	30 °	Cleveland	**437Z98**
4 Flutes						
⅛ in	⅜ in	3 1⁄16 in	⅜ in	30 °	Cleveland	**31C035**
3⁄16 in	½ in	3 ¼ in	⅜ in	30 °	Cleveland	**31C042**
¼ in	⅝ in	3 ⅜ in	⅜ in	30 °	Cleveland	**31C046**
⅜ in	¾ in	3 ½ in	⅜ in	30 °	Cleveland	**31C052**
½ in	1 in	4 ⅛ in	½ in	30 °	Cleveland	**31C055**
¾ in	1 ⅝ in	5 ⅝ in	¾ in	30 °	Cleveland	**31C060**

MICRO 100 super carbide tools

Miniature High-Performance Roughing/ Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Neck Dia.	Brand	Item No.
Bright (Uncoated) Finish							
2 Flutes							
0.0100 in	1/64 in	1 1/2 in	1/8 in	—	0.0100 in	Micro 100	**54FC50**
1/16 in	3/32 in	1 1/2 in	1/8 in	3/32 in	3/64 in	Micro 100	**54FD43**
1/16 in	3/32 in	1 1/2 in	1/8 in	1/4 in	3/64 in	Micro 100	**54FD45**
1/16 in	3/32 in	1 1/2 in	1/8 in	29/64 in	3/64 in	Micro 100	**54FD47**
1/16 in	3/32 in	2 in	1/8 in	17/64 in	3/64 in	Micro 100	**54FD49**
1/32 in	3/64 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FC90**
1/32 in	3/64 in	1 1/2 in	1/8 in	11/32 in	1/32 in	Micro 100	**54FC96**
1/32 in	3/64 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FC98**
1/32 in	3/64 in	1 1/2 in	1/8 in	7/16 in	1/32 in	Micro 100	**54FD05**
1/32 in	1/16 in	1 1/2 in	1/8 in	—	1/32 in	Micro 100	**54FD07**
1/32 in	1/16 in	1 1/2 in	1/8 in	5/64 in	1/32 in	Micro 100	**54FD09**
1/64 in	1/64 in	1 1/2 in	1/8 in	—	1/64 in	Micro 100	**54FC62**
1/64 in	1/64 in	1 1/2 in	1/8 in	7/64 in	1/64 in	Micro 100	**54FC64**
1/64 in	1/64 in	1 1/2 in	1/8 in	7/32 in	1/64 in	Micro 100	**54FC66**
1/64 in	1/64 in	1 1/2 in	1/8 in	11/64 in	0.0140 in	Micro 100	**54FC60**
1/64 in	1/32 in	1 1/2 in	1/8 in	13/64 in	1/64 in	Micro 100	**54FC72**
1/64 in	1/32 in	1 1/2 in	1/8 in	9/64 in	1/64 in	Micro 100	**54FC78**
1/64 in	3/64 in	1 1/2 in	1/8 in	—	1/64 in	Micro 100	**54FC82**
1/64 in	3/64 in	1 1/2 in	1/8 in	3/64 in	1/64 in	Micro 100	**54FC84**
1/64 in	3/64 in	1 1/2 in	1/8 in	21/64 in	1/64 in	Micro 100	**54FC88**
3/64 in	1/16 in	1 1/2 in	1/8 in	—	3/64 in	Micro 100	**54FD23**
3/64 in	1/16 in	1 1/2 in	1/8 in	1/8 in	3/64 in	Micro 100	**54FD25**
3/64 in	5/64 in	1 1/2 in	1/8 in	—	3/64 in	Micro 100	**54FD31**
3/64 in	5/64 in	1 1/2 in	1/8 in	7/64 in	3/64 in	Micro 100	**54FD33**
3/64 in	5/64 in	1 1/2 in	1/8 in	1/4 in	3/64 in	Micro 100	**54FD35**
3/64 in	5/64 in	2 in	1/8 in	21/32 in	3/64 in	Micro 100	**54FD39**
Diamond Finish							
2 Flutes							
1.00 mm	4.00 mm	45.00 mm	3.00 mm	4.95 mm	0.95 mm	OSG	**35CD52**
2.00 mm	10.00 mm	45.00 mm	3.00 mm	11.95 mm	1.95 mm	OSG	**35CD53**
3.00 mm	15.00 mm	50.00 mm	3.00 mm	—		OSG	**35CD54**
4 Flutes							
0.50 mm	2.00 mm	40.00 mm	3.00 mm	8.00 mm	0.48 mm	OSG	**35CE09**
1.00 mm	3.00 mm	40.00 mm	3.00 mm	8.00 mm	0.96 mm	OSG	**35CE10**
1.50 mm	5.00 mm	45.00 mm	3.00 mm	8.00 mm	1.43 mm	OSG	**35CE11**
2.00 mm	6.00 mm	45.00 mm	3.00 mm	8.00 mm	1.91 mm	OSG	**35CE12**
3.00 mm	12.00 mm	45.00 mm	3.00 mm	—		OSG	**35CE13**
1/16 in	1/16 in	3 in	1/16 in	5/16 in	3/64 in	OSG	**35CD65**
3/32 in	3/32 in	3 in	3/32 in	15/32 in	5/64 in	OSG	**35CD66**

Bright (Uncoated) Finish
2 Flutes
54FC50

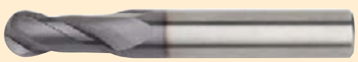
Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Neck Dia.	Brand	Item No.
nACRo Finish							
2 Flutes							
1/8 in	1/8 in	2 in	3/16 in	7/8 in	7/64 in	Micro 100	**54FD91**
1/8 in	1/8 in	2 in	3/16 in	5/8 in	7/64 in	Micro 100	**54FD99**
1/8 in	1/8 in	3 in	3/16 in	1 3/8 in	7/64 in	Micro 100	**54FD95**
1/16 in	7/64 in	1 1/2 in	1/8 in	—	1/16 in	Micro 100	**54FD51**
1/16 in	7/64 in	1 1/2 in	1/8 in	1/8 in	1/16 in	Micro 100	**54FD53**
1/16 in	7/64 in	1 1/2 in	1/8 in	9/32 in	1/16 in	Micro 100	**54FD55**
1/16 in	7/64 in	2 in	1/8 in	31/64 in	1/16 in	Micro 100	**54FD57**
1/16 in	7/64 in	2 in	1/8 in	25/32 in	1/16 in	Micro 100	**54FD59**
3/32 in	1/8 in	1 1/2 in	1/8 in	—	5/64 in	Micro 100	**54FD83**
3/32 in	1/8 in	1 1/2 in	1/8 in	3/8 in	5/64 in	Micro 100	**54FD87**
3/32 in	1/8 in	2 in	1/8 in	7/8 in	5/64 in	Micro 100	**54FD81**
3/32 in	1/8 in	2 in	1/8 in	5/8 in	5/64 in	Micro 100	**54FD89**
3/64 in	1/16 in	1 1/2 in	1/8 in	11/64 in	1/32 in	Micro 100	**54FD19**
5/64 in	7/64 in	1 1/2 in	1/8 in	—	1/16 in	Micro 100	**54FD61**
5/64 in	7/64 in	1 1/2 in	1/8 in	9/32 in	1/16 in	Micro 100	**54FD65**
5/64 in	7/64 in	2 in	1/8 in	17/32 in	1/16 in	Micro 100	**54FD67**
5/64 in	7/64 in	2 in	1/8 in	25/32 in	1/16 in	Micro 100	**54FD69**
5/64 in	1/8 in	1 1/2 in	1/8 in	1/8 in	5/64 in	Micro 100	**54FD73**
5/64 in	1/8 in	1 1/2 in	1/8 in	17/64 in	5/64 in	Micro 100	**54FD75**
5/64 in	1/8 in	1 1/2 in	1/8 in	—	55/64 in	Micro 100	**54FD71**
5/64 in	1/8 in	2 in	1/8 in	33/64 in	5/64 in	Micro 100	**54FD77**
5/64 in	1/8 in	2 in	1/8 in	49/64 in	5/64 in	Micro 100	**54FD79**
TiAlN Finish							
2 Flutes							
0.50 mm	0.70 mm	60.00 mm	6.00 mm	2.50 mm	0.45 mm	OSG	**35CJ89**
0.60 mm	0.90 mm	60.00 mm	6.00 mm	3.00 mm	0.55 mm	OSG	**35CJ90**
2.00 mm	3.00 mm	60.00 mm	6.00 mm	10.00 mm	1.95 mm	OSG	**35CK01**
2.50 mm	3.70 mm	60.00 mm	6.00 mm	12.50 mm	2.40 mm	OSG	**35CK03**
3/32 in	9/64 in	2 1/2 in	1/4 in	15/16 in	5/64 in	OSG	**35CK02**
4 Flutes							
3.00 mm	4.50 mm	70.00 mm	6.00 mm	15.00 mm	2.85 mm	OSG	**35CK25**

Miniature High-Performance Finishing Powdered-Metal Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	List No.	Item No.
TiN Finish					
2 Flutes					
3/64 in	9/64 in	1 7/8 in	3/16 in	673	**35DA61**
1/16 in	3/16 in	1 7/8 in	3/16 in	673	**35DA62**
5/64 in	15/64 in	1 7/8 in	3/16 in	673	**35DA63**
3/32 in	9/32 in	1 7/8 in	3/16 in	673	**35DA64**
7/64 in	21/64 in	1 7/8 in	3/16 in	673	**35DA65**
4 Flutes					
1/16 in	3/32 in	1 3/4 in	3/16 in	676	**35DA71**
1/16 in	3/16 in	1 7/8 in	3/16 in	677	**35DA76**
3/32 in	9/64 in	1 3/4 in	3/16 in	676	**35DA72**
3/32 in	9/32 in	1 7/8 in	3/16 in	677	**35DA77**

TiN Finish
2 Flutes
35DA61

Ball End Mills



Ball end mills have a rounded nose and create a round-bottomed groove in milling tasks. Also known as ball-nose end mills, they are used to make round-bottomed slots and pockets or mill complex shapes without sharp corners.

General purpose end mills are intended for milling a wide variety of common materials.

High-performance end mills are used in production milling.

Roughing end mills remove large amounts of material from a workpiece more quickly than roughing/finishing and finishing end mills.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.

Bright (Uncoated) Finish
2 Flutes
35CG32

High-Performance Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTin Finish						
2 Flutes						
0.375 in	⅜ in	4 in	⅜ in	30 °	SGS Tool	**41AW55**
3 Flutes						
0.25 in	¾ in	2.5 in	¼ in	30 °	—	**55HL33**
0.5 in	1 in	3 in	½ in	30 °	—	**55HL41**
0.75 in	1 ½ in	4 in	¾ in	30 °	—	**55HL45**
1 in	1 ½ in	4 in	1 in	30 °	—	**55HL27**
4 Flutes						
0.1875 in	⅝ in	2 in	3/16 in	30 °	—	**55HK90**
0.375 in	1 in	2.5 in	⅜ in	30 °	—	**55HK96**
0.25 in	1 ½ in	4 in	1 in	30 °	—	**55HK86**
6 Flutes						
0.25 in	0 in	2.5 in	¼ in	20 °	Widia Hanita	**287NW9**
0.375 in	1/64 in	3.5 in	⅜ in	20 °	Widia Hanita	**287NX0**
0.5 in	1/64 in	4 in	½ in	20 °	Widia Hanita	**48JN91**
0.5 in	1/64 in	4 in	½ in	20 °	Widia Hanita	**287NX1**
0.625 in	1/32 in	4.5 in	⅝ in	20 °	Widia Hanita	**287NX2**
0.75 in	1/32 in	5 in	¾ in	20 °	Widia Hanita	**287NX3**
0.5 in	⅜ in	4 in	½ in	20 °	Widia Hanita	**48JN82**
0.625 in	⅜ in	4.5 in	⅝ in	20 °	Widia Hanita	**48JN86**
1 in	3/64 in	5.5 in	1 in	20 °	Widia Hanita	**287NX4**
Bright (Uncoated) Finish						
2 Flutes						
0.125 in	3/16 in	2.5 in	⅛ in	15 °	OSG	**35CY68**
0.25 in	¼ in	2.5 in	¼ in	20 °	Micro 100	**54ET71**
0.25 in	¼ in	3 in	¼ in	20 °	Micro 100	**54ET65**
0.1875 in	9/32 in	4 in	3/16 in	15 °	OSG	**35CY70**
0.125 in	⅜ in	1.5 in	⅛ in	30 °	OSG	**35CG32**
0.25 in	⅜ in	4 in	¼ in	15 °	OSG	**35CY73**
0.375 in	9/16 in	4 in	⅜ in	15 °	OSG	**35CY76**
0.5 in	¾ in	5 in	½ in	15 °	OSG	**35CY81**
0.625 in	15/16 in	6 in	⅝ in	15 °	OSG	**35CY84**
0.75 in	1 ⅛ in	6 in	¾ in	15 °	OSG	**35CY87**
1 in	1 ½ in	6 in	1 in	15 °	OSG	**35CY66**
4 mm	6 mm	63 mm	4 mm	15 °	OSG	**35CY69**
5 mm	7.5 mm	63 mm	5 mm	15 °	OSG	**35CY71**
6 mm	9 mm	100 mm	6 mm	15 °	OSG	**35CY72**
8 mm	12 mm	100 mm	8 mm	15 °	OSG	**35CY75**
10 mm	15 mm	100 mm	10 mm	15 °	OSG	**35CY77**
11 mm	16.5 mm	127 mm	11 mm	15 °	OSG	**35CY78**
12 mm	18 mm	127 mm	12 mm	15 °	OSG	**35CY80**
14 mm	21 mm	127 mm	14 mm	15 °	OSG	**35CY82**
16 mm	24 mm	152 mm	16 mm	15 °	OSG	**35CY85**
18 mm	27 mm	152 mm	18 mm	15 °	OSG	**35CY86**
20 mm	30 mm	152 mm	20 mm	15 °	OSG	**35CY88**
3 Flutes						
0.1875 in	9/16 in	2 in	3/16 in	30 °	OSG	**35CG33**
1 in	1 ½ in	4 in	1 in	30 °	—	**55HL26**
4 Flutes						
0.125 in	⅜ in	1.5 in	⅛ in	38 °	Cleveland	**32ZX11**
0.125 in	½ in	1.5 in	⅛ in	30 °	—	**55HK87**
0.1875 in	⅝ in	2 in	3/16 in	30 °	—	**55HK89**
0.5 in	⅝ in	2.5 in	½ in	38 °	Cleveland	**32ZX17**
0.25 in	¾ in	2.5 in	¼ in	38 °	Cleveland	**32ZX13**
0.375 in	⅞ in	2.5 in	⅜ in	38 °	Cleveland	**32ZX15**
0.375 in	1 in	2.5 in	⅜ in	30 °	OSG	**33PA43**
0.5 in	1 ¼ in	3 in	½ in	30 °	OSG	**33PA44**
0.625 in	1 ⅝ in	3.5 in	⅝ in	30 °	OSG	**35CG36**
0.625 in	1 ¼ in	3.5 in	⅝ in	38 °	Cleveland	**32ZX19**
0.75 in	1 ⅝ in	4 in	¾ in	30 °	OSG	**33PA45**
0.75 in	1 ½ in	4 in	¾ in	38 °	Cleveland	**32ZX20**
0.25 in	1 ½ in	4 in	1 in	30 °	—	**55HK85**
1 in	2 in	5 in	1 in	30 °	OSG	**35CG37**
1 in	2 ¼ in	5 in	1 in	38 °	Cleveland	**32ZX21**
TiAlN Finish						
2 Flutes						
0.125 in	⅛ in	3 in	¼ in	30 °	OSG	**35CL69**
0.1875 in	3/16 in	4 in	¼ in	30 °	OSG	**35CL44**
0.125 in	7/32 in	3 in	¼ in	30 °	OSG	**35CL11**
0.125 in	¼ in	3 in	¼ in	30 °	OSG	**35CK72**
0.1875 in	19/64 in	3.5 in	5/16 in	30 °	OSG	**35CL14**
0.1875 in	⅜ in	3 in	¼ in	30 °	OSG	**35CK77**
0.375 in	19/32 in	4 in	½ in	30 °	OSG	**35CL21**
0.375 in	¾ in	4 in	⅜ in	30 °	OSG	**35CK89**
0.5 in	1 in	4 in	½ in	30 °	OSG	**35CK93**
3.5 mm	3.5 mm	50 mm	6 mm	30 °	OSG	**35CL70**
3.5 mm	3.5 mm	70 mm	6 mm	30 °	OSG	**35CL42**
3.5 mm	8 mm	70 mm	6 mm	30 °	OSG	**35CK73**
4 mm	4 mm	50 mm	6 mm	30 °	OSG	**35CL71**
4 mm	8 mm	90 mm	6 mm	30 °	OSG	**35CL13**
4.5 mm	10 mm	80 mm	6 mm	30 °	OSG	**35CK76**
5 mm	5 mm	80 mm	6 mm	30 °	OSG	**35CL45**
5 mm	10 mm	110 mm	8 mm	30 °	OSG	**35CL16**
5.5 mm	12 mm	90 mm	6 mm	30 °	OSG	**35CK79**
6 mm	6 mm	50 mm	6 mm	30 °	OSG	**35CL74**
6 mm	6 mm	90 mm	6 mm	30 °	OSG	**35CL46**
6 mm	12 mm	90 mm	8 mm	30 °	OSG	**35CL17**
6.5 mm	14 mm	90 mm	8 mm	30 °	OSG	**35CK81**
7 mm	14 mm	90 mm	8 mm	30 °	OSG	**35CK82**
8 mm	14 mm	120 mm	10 mm	30 °	OSG	**35CL20**
8.5 mm	18 mm	100 mm	10 mm	30 °	OSG	**35CK86**
9 mm	18 mm	100 mm	10 mm	30 °	OSG	**35CK87**
9.5 mm	18 mm	100 mm	10 mm	30 °	OSG	**35CK88**
10 mm	18 mm	100 mm	10 mm	30 °	OSG	**35CK90**
10 mm	18 mm	130 mm	12 mm	30 °	OSG	**35CL23**
11 mm	22 mm	100 mm	12 mm	30 °	OSG	**35CK91**
12 mm	22 mm	110 mm	12 mm	30 °	OSG	**35CK92**
13 mm	26 mm	110 mm	16 mm	30 °	OSG	**35CK94**
14 mm	26 mm	110 mm	16 mm	30 °	OSG	**35CK95**
15 mm	30 mm	110 mm	16 mm	30 °	OSG	**35CK96**
16 mm	30 mm	140 mm	16 mm	30 °	OSG	**35CK97**
18 mm	34 mm	140 mm	20 mm	30 °	OSG	**35CK98**
20 mm	38 mm	160 mm	20 mm	30 °	OSG	**35CK99**
25 mm	50 mm	180 mm	25 mm	30 °	OSG	**35CL01**
4 Flutes						
0.1875 in	7/16 in	2 in	3/16 in	38 °	Cleveland	**33GE67**
0.125 in	½ in	2 in	⅛ in	38 °	Widia Hanita	**48HZ27**
0.375 in	½ in	4 in	⅜ in	38 °	Widia Hanita	**48JE15**
0.1875 in	⅝ in	2.2 in	3/16 in	35 °	OSG	**35CJ01**
0.5 in	⅝ in	2.5 in	½ in	38 °	Cleveland	**33GE72**
0.5 in	⅝ in	5 in	½ in	38 °	Widia Hanita	**48JE16**
0.25 in	¾ in	2.5 in	¼ in	38 °	Widia Hanita	**48HZ29**
0.3125 in	¾ in	2.5 in	5/16 in	38 °	Widia Hanita	**48HZ30**
0.625 in	¾ in	6 in	⅝ in	38 °	Widia Hanita	**48JE17**
0.375 in	⅞ in	2.5 in	⅜ in	35 °	OSG	**35CJ04**
0.5 in	1 ¼ in	3 in	½ in	35 °	OSG	**35CJ07**
0.5 in	1 in	3 in	½ in	35 °	OSG	**35CJ06**
0.625 in	1 ¼ in	3.5 in	⅝ in	38 °	Cleveland	**33GE74**
0.75 in	1 ½ in	4 in	¾ in	35 °	OSG	**35CJ09**
0.75 in	1 in	6 in	¾ in	38 °	Widia Hanita	**48JE18**
1 in	1 ½ in	4 in	1 in	35 °	OSG	**35CH97**
1 in	1 ⅛ in	6 in	1 in	38 °	Widia Hanita	**48JE19**
1.25 in	2 ¼ in	5 in	1 ¼ in	35 °	OSG	**35CH98**
1 in	2 ¼ in	5 in	1 in	38 °	Cleveland	**33GE76**

Bright (Uncoated)
2 Flutes
36NW20

General Purpose Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated)						
2 Flutes						
0.25 in	3/16 in	3 in	¼ in	30 °	Micro 100	**14K673**
0.125 in	¼ in	1.5 in	⅛ in	35 °	Cleveland	**33FX59**
0.1875 in	5/16 in	2 in	3/16 in	35 °	Cleveland	**33FX66**
0.25 in	⅜ in	2 in	¼ in	40 °	Onsrud	**4XYU3**
0.5 in	25/64 in	4 in	½ in	30 °	Micro 100	**14K691**
0.125 in	½ in	1.5 in	⅛ in	35 °	Cleveland	**33FX60**
0.1562 in	½ in	2 in	3/16 in	30 °	—	**36PC17**
0.25 in	½ in	2 in	¼ in	35 °	Cleveland	**33FX73**
0.3125 in	½ in	2 in	5/16 in	35 °	Cleveland	**33FX80**
0.375 in	½ in	2.5 in	⅜ in	40 °	Onsrud	**4XYU7**
0.375 in	½ in	4 in	⅜ in	40 °	Onsrud	**4XZK1**
0.375 in	½ in	5 in	⅜ in	40 °	Onsrud	**4XZR5**
0.1562 in	9/16 in	2 in	3/16 in	35 °	Cleveland	**33FX64**
0.1875 in	⅝ in	2 in	3/16 in	35 °	Cleveland	**33FX67**
0.2031 in	⅝ in	2.5 in	¼ in	35 °	Cleveland	**33FX70**
0.375 in	⅝ in	2 in	⅜ in	35 °	Cleveland	**33FX84**
0.5 in	⅝ in	2.5 in	½ in	35 °	Cleveland	**33FX93**
0.5 in	⅝ in	3 in	½ in	40 °	Onsrud	**4XYV1**
0.5 in	⅝ in	4 in	½ in	40 °	Onsrud	**4XZK4**
0.75 in	⅝ in	5 in	¾ in	40 °	Onsrud	**4XZP4**
0.125 in	¾ in	2.5 in	⅛ in	30 °	—	**36NU22**
0.125 in	¾ in	2.2 in	⅛ in	35 °	Cleveland	**33FX61**
0.1875 in	¾ in	2.5 in	3/16 in	35 °	Cleveland	**33FX68**
0.25 in	¾ in	2.5 in	¼ in	30 °	OSG	**2TXN6**
0.25 in	¾ in	2.5 in	¼ in	35 °	Cleveland	**33FX74**
0.25 in	¾ in	2 in	¼ in	40 °	Onsrud	**4XYW6**
0.125 in	¾ in	3 in	⅛ in	30 °	—	**36NU30**
0.625 in	¾ in	6 in	⅝ in	40 °	Onsrud	**4XZT2**
0.3125 in	13/16 in	2.5 in	5/16 in	30 °	OSG	**30L874**
0.3125 in	⅞ in	2.5 in	5/16 in	35 °	Cleveland	**33FX81**
0.375 in	⅞ in	2.5 in	⅜ in	30 °	—	**36NY98**
0.25 in	1 ¼ in	2.5 in	¼ in	40 °	Onsrud	**4XYY8**
0.375 in	1 in	2.5 in	⅜ in	30 °	OSG	**2TXP1**
0.4062 in	1 in	2.7 in	7/16 in	30 °	OSG	**30L905**
0.1875 in	1 ⅛ in	3 in	3/16 in	35 °	Cleveland	**33FX69**
0.25 in	1 ⅛ in	3 in	¼ in	35 °	Cleveland	**33FX75**
0.3125 in	1 ⅛ in	3 in	5/16 in	35 °	Cleveland	**33FX82**
0.375 in	1 ⅛ in	3 in	⅜ in	35 °	Cleveland	**33FX86**
0.5 in	1 in	3 in	½ in	30 °	OSG	**2TXP5**
0.4531 in	1 in	3 in	½ in	30 °	OSG	**30L919**
0.5156 in	1 ⅛ in	3.5 in	9/16 in	30 °	—	**36NX33**
0.625 in	1 ¼ in	3.5 in	⅝ in	30 °	OSG	**30L938**
0.625 in	1 ¼ in	3.5 in	⅝ in	35 °	Cleveland	**33FY01**
0.75 in	1 in	3 in	¾ in	40 °	Onsrud	**4XYV8**
0.1875 in	1 ⅛ in	4 in	3/16 in	30 °	—	**36NW20**
0.25 in	1 ½ in	4 in	¼ in	30 °	—	**36NR72**
0.25 in	1 ½ in	4 in	¼ in	35 °	Cleveland	**33FX76**
0.3125 in	1 ⅝ in	4 in	5/16 in	30 °	—	**36PA40**
0.375 in	1 ¾ in	4 in	⅜ in	35 °	Cleveland	**33FX87**
0.375 in	1 ½ in	4 in	⅜ in	40 °	Onsrud	**4XYZ2**
0.5 in	1 ½ in	4 in	½ in	30 °	—	**36NN90**
0.5 in	1 in	4 in	½ in	30 °	—	**36NP07**

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CONTINUED

Additional End Mill sizes, materials, and coatings are available on Grainger.com®.

General Purpose Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
0.625 in	1 ⅝ in	4 in	⅝ in	40 °	Onsrud	**4XYX6**
0.75 in	1 ½ in	4 in	¾ in	30 °	—	**36NX49**
0.75 in	1 ⅝ in	4 in	¾ in	40 °	Onsrud	**4XYY1**
0.5 in	1 in	6 in	½ in	30 °	—	**36NN98**
0.375 in	2 in	4 in	⅜ in	30 °	—	**36NZ23**
0.5 in	2 in	4 in	½ in	35 °	Cleveland	**33FX95**
0.625 in	2 ¼ in	5 in	⅝ in	40 °	Onsrud	**4XYZ8**
0.75 in	2 ¼ in	5 in	¾ in	35 °	Cleveland	**33FY06**
0.75 in	2 ½ in	5 in	¾ in	40 °	Onsrud	**4XZA3**
0.625 in	2 in	6 in	⅝ in	30 °	—	**36PC61**
0.75 in	2 in	6 in	¾ in	30 °	—	**36NX57**
0.375 in	3 in	6 in	⅜ in	30 °	—	**36NZ19**
0.75 in	3 in	6 in	¾ in	35 °	Cleveland	**33FY07**
1 in	1 ¼ in	7 in	1 in	40 °	Onsrud	**4XZU1**
1 in	2 ¼ in	5 in	1 in	35 °	Cleveland	**33FY12**
1 in	2 ½ in	5 in	1 in	40 °	Onsrud	**4XYY5**
1 in	2 in	6 in	1 in	30 °	—	**36NM21**
1 in	3 in	6 in	1 in	35 °	Cleveland	**33FY13**
1 in	3 ¼ in	6 in	1 in	40 °	Onsrud	**4XZA7**
1 in	4 in	7 in	1 in	30 °	—	**36NM13**
3.5 mm	12 mm	51 mm	4 mm	30 °	OSG	**30L821**
4 mm	2.7 mm	100 mm	6 mm	30 °	Micro 100	**14K744**
4 mm	5 mm	57 mm	6 mm	30 °	Micro 100	**14M588**
4 mm	14 mm	51 mm	4 mm	30 °	OSG	**30L829**
4.5 mm	14 mm	51 mm	5 mm	30 °	OSG	**30L837**
6 mm	4 mm	75 mm	6 mm	30 °	Micro 100	**14K758**
6 mm	4 mm	100 mm	6 mm	30 °	Micro 100	**14K762**
6 mm	19 mm	64 mm	6 mm	30 °	OSG	**30L856**
7 mm	19 mm	64 mm	8 mm	30 °	OSG	**30L864**
9 mm	22 mm	70 mm	10 mm	30 °	OSG	**30L890**
10 mm	6.7 mm	100 mm	10 mm	30 °	Micro 100	**14K798**
11 mm	25 mm	70 mm	11 mm	30 °	OSG	**30L913**
12 mm	8 mm	100 mm	12 mm	30 °	Micro 100	**14K813**
16 mm	32 mm	89 mm	16 mm	30 °	OSG	**30L942**
20 mm	38 mm	102 mm	20 mm	30 °	OSG	**30L956**
22 mm	38 mm	102 mm	22 mm	30 °	OSG	**30L960**
25 mm	38 mm	102 mm	25 mm	30 °	OSG	**30L965**
TiAlN						
2 Flutes						
0.125 in	¼ in	1.5 in	⅛ in	35 °	Cleveland	**33GH27**
0.1875 in	5⁄16 in	2 in	3⁄16 in	35 °	Cleveland	**33GH34**
0.125 in	½ in	1.5 in	⅛ in	30 °	OSG	**30L818**
0.25 in	½ in	2 in	¼ in	35 °	Cleveland	**33GH41**
0.3125 in	½ in	2 in	5⁄16 in	35 °	Cleveland	**33GH48**
0.1562 in	9⁄16 in	2 in	3⁄16 in	35 °	Cleveland	**33GH32**
0.1406 in	9⁄16 in	2 in	3⁄16 in	35 °	Cleveland	**33GH31**
0.1875 in	⅝ in	2 in	3⁄16 in	30 °	OSG	**30L839**
0.1718 in	⅝ in	2 in	3⁄16 in	35 °	Cleveland	**33GH33**
0.2031 in	⅝ in	2.5 in	¼ in	35 °	Cleveland	**33GH38**
0.2187 in	⅝ in	2.5 in	¼ in	35 °	Cleveland	**33GH39**
0.375 in	⅝ in	2 in	⅜ in	35 °	Cleveland	**33GH52**
0.4375 in	⅝ in	2.5 in	7⁄16 in	35 °	Cleveland	**33GH57**
0.5 in	⅝ in	2.5 in	½ in	35 °	Cleveland	**33GH61**
0.1875 in	¾ in	2.5 in	3⁄16 in	35 °	Cleveland	**33GH36**
0.25 in	¾ in	2.5 in	¼ in	35 °	Cleveland	**33GH42**
0.2343 in	¾ in	2.5 in	¼ in	35 °	Cleveland	**33GH40**
0.2812 in	¾ in	2.5 in	5⁄16 in	30 °	OSG	**30L869**
0.3125 in	13⁄16 in	2.5 in	5⁄16 in	30 °	OSG	**30L875**
0.2656 in	⅞ in	2.5 in	5⁄16 in	35 °	Cleveland	**33GH46**
0.3125 in	⅞ in	2.5 in	5⁄16 in	35 °	Cleveland	**33GH49**
0.375 in	1 in	2.5 in	⅜ in	30 °	OSG	**2TXP3**
0.4062 in	1 in	2.7 in	7⁄16 in	30 °	OSG	**30L906**
0.4375 in	1 in	2.7 in	7⁄16 in	30 °	OSG	**30L916**
0.125 in	1 in	3 in	⅛ in	30 °	OSG	**54LJ58**
0.1875 in	1 ⅛ in	3 in	3⁄16 in	30 °	OSG	**54LJ59**
0.25 in	1 ⅛ in	3 in	¼ in	35 °	Cleveland	**33GH43**
0.3125 in	1 ⅛ in	3 in	5⁄16 in	35 °	Cleveland	**33GH50**
0.5 in	1 in	3 in	½ in	30 °	OSG	**2TXP7**
0.3125 in	1 ⅝ in	4 in	5⁄16 in	35 °	Cleveland	**33GH51**
0.375 in	1 ¾ in	4 in	⅜ in	35 °	Cleveland	**33GH56**
0.375 in	1 ½ in	6 in	⅜ in	35 °	Cleveland	**33GH55**
0.5 in	1 ½ in	6 in	½ in	35 °	Cleveland	**33GH63**
0.375 in	2 in	4 in	⅜ in	30 °	—	**36NZ28**
0.75 in	2 ¼ in	5 in	¾ in	35 °	Cleveland	**33GH73**
0.375 in	3 in	6 in	⅜ in	30 °	—	**36NZ16**
1 in	1 ½ in	4 in	1 in	30 °	OSG	**30L809**
1 in	3 in	6 in	1 in	35 °	Cleveland	**33GH80**
3.5 mm	12 mm	51 mm	4 mm	30 °	OSG	**30L822**
4 mm	8 mm	51 mm	4 mm	30 °	OSG	**54LJ49**
4 mm	14 mm	51 mm	4 mm	30 °	OSG	**30L830**
4.5 mm	14 mm	51 mm	5 mm	30 °	OSG	**30L838**
5 mm	16 mm	51 mm	5 mm	30 °	OSG	**30L843**
6 mm	19 mm	64 mm	6 mm	30 °	OSG	**30L857**
7 mm	19 mm	64 mm	8 mm	30 °	OSG	**30L865**
8 mm	21 mm	64 mm	8 mm	30 °	OSG	**30L879**
9 mm	22 mm	70 mm	10 mm	30 °	OSG	**30L891**
11 mm	25 mm	70 mm	11 mm	30 °	OSG	**30L914**
16 mm	32 mm	89 mm	16 mm	30 °	OSG	**30L943**
18 mm	35 mm	102 mm	18 mm	30 °	OSG	**30L951**
20 mm	38 mm	102 mm	20 mm	30 °	OSG	**30L957**
22 mm	38 mm	102 mm	22 mm	30 °	OSG	**30L961**
25 mm	38 mm	102 mm	25 mm	30 °	OSG	**30L966**
4 Flutes						
0.125 in	¼ in	1.5 in	⅛ in	30 °	OSG	**54LJ39**
0.1875 in	5⁄16 in	1.5 in	3⁄16 in	30 °	Widia Hanita	**48HA91**
0.1875 in	5⁄16 in	2 in	3⁄16 in	30 °	Cleveland	**33GL55**
0.1562 in	5⁄16 in	2 in	3⁄16 in	30 °	Cleveland	**33GL52**
0.1875 in	⅜ in	2 in	3⁄16 in	30 °	OSG	**54LJ41**
0.125 in	⅜ in	3 in	⅜ in	30 °	OSG	**54LJ67**
0.125 in	½ in	1.5 in	⅛ in	30 °	OSG	**2TXT1**
0.25 in	½ in	2 in	¼ in	30 °	Widia Hanita	**48HA98**
0.3125 in	½ in	2 in	5⁄16 in	30 °	OSG	**54LJ44**
0.125 in	⅝ in	2 in	⅛ in	30 °	Cleveland	**33GL48**
0.1875 in	⅝ in	2 in	3⁄16 in	30 °	Widia Hanita	**48HA92**
0.2187 in	⅝ in	2.5 in	¼ in	30 °	Cleveland	**33GL60**
0.375 in	⅝ in	2 in	⅜ in	30 °	Cleveland	**33GL75**
0.125 in	¾ in	2.2 in	⅛ in	30 °	OSG	**54LJ52**
0.25 in	¾ in	2.5 in	¼ in	30 °	Widia Hanita	**48HA99**
0.625 in	¾ in	3 in	⅝ in	30 °	Widia Hanita	**48HC23**
0.3125 in	13⁄16 in	2.5 in	5⁄16 in	30 °	OSG	**2TXT9**
0.3125 in	⅞ in	2.5 in	5⁄16 in	30 °	Cleveland	**33GL71**
0.3593 in	⅞ in	2.5 in	⅜ in	30 °	Cleveland	**33GL74**
0.375 in	⅞ in	2.5 in	⅜ in	30 °	—	**36NZ04**
0.375 in	1 in	2.5 in	⅜ in	30 °	OSG	**2TXU2**
0.4375 in	1 in	2.5 in	½ in	30 °	Widia Hanita	**48HC15**
0.125 in	1 in	3 in	⅛ in	30 °	OSG	**54LJ61**
0.25 in	1 ⅛ in	3 in	¼ in	30 °	OSG	**54LJ54**
0.3125 in	1 ⅛ in	3 in	5⁄16 in	30 °	Widia Hanita	**48HC08**
0.375 in	1 ⅛ in	3 in	⅜ in	30 °	Widia Hanita	**48HC13**
0.5 in	1 in	3 in	½ in	30 °	OSG	**2TXU4**
0.5625 in	1 ¼ in	3.5 in	9⁄16 in	30 °	Widia Hanita	**48HC22**
0.625 in	1 ¼ in	3.5 in	⅝ in	30 °	OSG	**2TXU6**
0.625 in	1 ¼ in	3.5 in	⅝ in	30 °	Widia Hanita	**48HC24**
0.75 in	1 in	3 in	¾ in	30 °	Widia Hanita	**48HC27**
0.1875 in	1 in	4 in	3⁄16 in	30 °	Widia Hanita	**48HA94**
0.25 in	1 ½ in	4 in	¼ in	30 °	Widia Hanita	**48HC02**
0.25 in	1 ½ in	4 in	¼ in	30 °	OSG	**54LJ63**
0.25 in	1 in	4 in	¼ in	30 °	Cleveland	**33GL64**
0.3125 in	1 ⅝ in	4 in	5⁄16 in	30 °	Cleveland	**33GL73**
0.375 in	1 ¾ in	4 in	⅜ in	30 °	OSG	**54LJ65**
0.375 in	1 in	4 in	⅜ in	30 °	Widia Hanita	**48HC11**
0.5 in	1 in	4 in	½ in	30 °	Widia Hanita	**48HC16**
0.6875 in	1 ⅜ in	4 in	¾ in	30 °	OSG	**30M154**
0.75 in	1 ½ in	4 in	¾ in	30 °	OSG	**2TXU8**
0.375 in	1 ½ in	6 in	⅜ in	30 °	Cleveland	**33GL78**
0.375 in	1 ½ in	6 in	⅜ in	30 °	Widia Hanita	**48HC14**
0.5 in	1 ½ in	6 in	½ in	30 °	Widia Hanita	**48HC18**
0.5 in	2 in	4.5 in	½ in	30 °	Widia Hanita	**48HC19**
0.625 in	2 ¼ in	5 in	⅝ in	30 °	Widia Hanita	**48HC25**
0.375 in	3 in	6 in	⅜ in	30 °	—	**36NZ20**
0.4375 in	3 in	6 in	7⁄16 in	30 °	Cleveland	**33GL85**
0.5 in	3 in	6 in	½ in	30 °	OSG	**54LJ66**
0.625 in	3 in	6 in	⅝ in	30 °	Cleveland	**33GL96**
0.75 in	3 in	6 in	¾ in	30 °	Widia Hanita	**48HC29**
1 in	1 ½ in	4 in	1 in	30 °	OSG	**2TXR8**
1 in	3 in	6 in	1 in	30 °	Cleveland	**33GM07**
3.5 mm	12 mm	51 mm	4 mm	30 °	OSG	**30M011**
4 mm	14 mm	51 mm	4 mm	30 °	OSG	**30M021**
4.5 mm	14 mm	51 mm	5 mm	30 °	OSG	**30M029**
5 mm	16 mm	51 mm	5 mm	30 °	OSG	**30M035**
6 mm	19 mm	64 mm	6 mm	30 °	OSG	**30M051**
7 mm	19 mm	64 mm	8 mm	30 °	OSG	**30M061**
8 mm	21 mm	64 mm	8 mm	30 °	OSG	**30M075**
9 mm	22 mm	70 mm	10 mm	30 °	OSG	**30M087**
10 mm	25 mm	70 mm	10 mm	30 °	OSG	**30M102**
11 mm	25 mm	70 mm	11 mm	30 °	OSG	**30M114**
12 mm	25 mm	76 mm	12 mm	30 °	OSG	**30M130**
14 mm	30 mm	89 mm	14 mm	30 °	OSG	**30M140**
18 mm	35 mm	102 mm	18 mm	30 °	OSG	**30M158**
22 mm	38 mm	102 mm	22 mm	30 °	OSG	**30M168**
25 mm	38 mm	102 mm	25 mm	30 °	OSG	**30M174**
TiCN						
4 Flutes						
0.375 in	⅞ in	2.5 in	⅜ in	30 °	—	**36NZ05**

General Purpose Roughing/ Finishing Carbide Ball End Mills

4 Flute
19LP96

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish					
2 Flutes					
0.25 in	½ in	2 in	¼ in	—	**19LM45**
0.25 in	½ in	4 in	¼ in	Micro 100	**16F671**
0.5 in	⅝ in	2.5 in	½ in	—	**19LM54**
0.375 in	⅝ in	2 in	⅜ in	—	**19LM50**
0.375 in	1 in	2.5 in	⅜ in	—	**19LN65**
0.25 in	1 ⅛ in	3 in	¼ in	—	**19LR81**
0.75 in	1 in	3 in	¾ in	—	**19LM58**
0.5 in	1 ½ in	4 in	½ in	—	**19LR89**
0.25 in	1 ½ in	4 in	¼ in	—	**19LT31**
0.375 in	1 ¾ in	4 in	⅜ in	—	**19LT42**
0.5 in	1 in	6 in	½ in	Micro 100	**16F687**
0.25 in	1 ½ in	6 in	¼ in	—	**19LT33**
0.375 in	1 ½ in	6 in	⅜ in	—	**19LT39**
0.5 in	2 in	4 in	½ in	—	**19LR91**

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For more information on end mills, see page 2277.

See page 2287 for more information on ball end mills.

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General Purpose Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
0.75 in	3 in	6 in	¾ in	—	19LT55
1 in	1 ½ in	4 in	1 in	—	19LN88
1 in	2 ¼ in	5 in	1 in	—	19LR97
1 in	3 in	6 in	1 in	—	19LT61
4 mm	14 mm	51 mm	4 mm	—	19LP05
4.5 mm	16 mm	51 mm	5 mm	—	19LP07
5 mm	16 mm	51 mm	5 mm	—	19LP09
7 mm	19 mm	63 mm	8 mm	—	19LP13
9 mm	22 mm	63 mm	10 mm	—	19LP17
10 mm	25 mm	72 mm	10 mm	Micro 100	16F590
12 mm	25 mm	76 mm	12 mm	—	19LP23
16 mm	32 mm	102 mm	16 mm	—	19LP27
18 mm	38 mm	102 mm	18 mm	—	19LP29
22 mm	38 mm	102 mm	22 mm	—	19LP33
4 Flutes					
0.25 in	½ in	2 in	¼ in	—	19LM92
0.25 in	½ in	4 in	¼ in	Micro 100	16F673
0.5 in	⅝ in	2.5 in	½ in	—	19LN02
0.25 in	¾ in	2.5 in	¼ in	Micro 100	16F497
0.25 in	¾ in	2.5 in	¼ in	—	19LP79
0.5 in	1 in	3 in	½ in	—	19LP97
0.25 in	1 ⅛ in	3 in	¼ in	—	19LT06
0.75 in	1 in	3 in	¾ in	—	19LN06
0.5 in	1 ½ in	4 in	½ in	—	19LT14
0.25 in	1 ½ in	4 in	¼ in	—	19LT73
0.75 in	1 ½ in	4 in	¾ in	—	19LR11
0.5 in	1 ½ in	6 in	½ in	—	19LT88
0.5 in	1 in	6 in	½ in	Micro 100	16F689
0.5 in	2 in	4 in	½ in	—	19LT16
1 in	1 ½ in	4 in	1 in	—	19LR14
1 in	4 in	7 in	1 in	—	19LU02
4 mm	14 mm	51 mm	4 mm	—	19LR33
4.5 mm	16 mm	51 mm	5 mm	—	19LR35
5 mm	16 mm	51 mm	5 mm	—	19LR37
6 mm	19 mm	63 mm	6 mm	—	19LR40
7 mm	19 mm	63 mm	8 mm	—	19LR42
8 mm	20 mm	63 mm	8 mm	—	19LR45
11 mm	25 mm	76 mm	12 mm	—	19LR51
12 mm	25 mm	76 mm	12 mm	—	19LR53
14 mm	32 mm	90 mm	14 mm	—	19LR55
18 mm	38 mm	102 mm	18 mm	—	19LR59
22 mm	38 mm	102 mm	22 mm	—	19LR63
25 mm	38 mm	102 mm	25 mm	—	19LR65
Bright (Uncoated) Finish					
2 Flutes					
0.5 in	⅝ in	2.5 in	½ in	—	19LM53
4 Flutes					
0.25 in	½ in	2 in	¼ in	—	19LM91
0.25 in	½ in	4 in	¼ in	Micro 100	16F672
0.5 in	⅝ in	2.5 in	½ in	—	19LN01
0.375 in	⅝ in	2 in	⅜ in	—	19LM96
0.25 in	⅝ in	3.3 in	⅜ in	OSG	35CZ52
0.25 in	¾ in	2.5 in	¼ in	Micro 100	16F496
0.25 in	¾ in	2.5 in	¼ in	—	19LP77
0.375 in	¾ in	3.5 in	⅜ in	OSG	35CZ56
0.375 in	⅞ in	2.5 in	⅜ in	Micro 100	16F515
0.375 in	1 in	2.5 in	⅜ in	—	19LP88
0.5 in	1 in	3 in	½ in	Micro 100	16F527
0.5 in	1 in	3 in	½ in	—	19LP96
0.25 in	1 ⅛ in	3 in	¼ in	—	19LT05
0.375 in	1 ⅛ in	3 in	⅜ in	OSG	35CY10
0.5 in	1 in	4 in	½ in	OSG	35CZ58
0.25 in	1 ½ in	4 in	¼ in	—	19LT72
0.25 in	1 in	4 in	¼ in	—	19LT71
0.75 in	1 ½ in	4 in	¾ in	—	19LR10
0.375 in	1 ¾ in	4 in	⅜ in	—	19LT80
0.5 in	1 in	6 in	½ in	Micro 100	16F688
0.25 in	1 ½ in	6 in	¼ in	—	19LT74
0.75 in	1 ½ in	6 in	¾ in	—	19LT97
0.75 in	2 ¼ in	5 in	¾ in	—	19LT20
0.5 in	3 in	6 in	½ in	—	19LT87
0.5 in	3 in	6 in	½ in	SGS Tool	41AW60
0.75 in	3 in	6 in	¾ in	OSG	35CY41
0.75 in	4 in	7 in	¾ in	—	19LT95
1 in	1 ½ in	4 in	1 in	—	19LR13
1 in	2 ¼ in	5 in	1 in	OSG	35CX99
1 in	4 in	7 in	1 in	—	19LU01
3.5 mm	7 mm	51 mm	4 mm	OSG	35CX66
4 mm	8 mm	51 mm	4 mm	OSG	35CX67
4.5 mm	9 mm	51 mm	5 mm	OSG	35CX68
4 mm	14 mm	51 mm	4 mm	—	19LR32
4.5 mm	16 mm	51 mm	5 mm	—	19LR34
4 mm	19 mm	57 mm	4 mm	OSG	35CY03
5 mm	10 mm	51 mm	5 mm	OSG	35CX69
5 mm	32 mm	76 mm	5 mm	OSG	35CY56
6 mm	12 mm	51 mm	6 mm	OSG	35CX70
6 mm	28 mm	76 mm	6 mm	OSG	35CY06
6 mm	38 mm	102 mm	6 mm	OSG	35CY57
7 mm	12 mm	51 mm	8 mm	OSG	35CX71
8 mm	12 mm	51 mm	8 mm	OSG	35CX72
8 mm	14 mm	100 mm	8 mm	Micro 100	16F733
8 mm	20 mm	63 mm	8 mm	—	19LR44
8 mm	42 mm	102 mm	8 mm	OSG	35CY58
9 mm	14 mm	51 mm	10 mm	OSG	35CX73
9 mm	22 mm	63 mm	10 mm	—	19LR46
10 mm	14 mm	51 mm	10 mm	OSG	35CX74
10 mm	22 mm	76 mm	10 mm	—	19LR48
10 mm	32 mm	76 mm	10 mm	OSG	35CY11
10 mm	45 mm	102 mm	10 mm	OSG	35CY59
11 mm	16 mm	64 mm	11 mm	OSG	35CX75
12 mm	16 mm	64 mm	12 mm	OSG	35CX76
12 mm	25 mm	76 mm	12 mm	—	19LR52
12 mm	76 mm	153 mm	12 mm	OSG	35CY60
14 mm	57 mm	127 mm	14 mm	OSG	35CY15
14 mm	76 mm	153 mm	14 mm	OSG	35CY61
16 mm	32 mm	102 mm	16 mm	—	19LR56
16 mm	76 mm	153 mm	16 mm	OSG	35CY62
18 mm	38 mm	102 mm	18 mm	—	19LR58
18 mm	76 mm	153 mm	18 mm	OSG	35CY63
20 mm	57 mm	127 mm	20 mm	OSG	35CY20
22 mm	38 mm	102 mm	22 mm	—	19LR62
25 mm	76 mm	153 mm	25 mm	OSG	35CY65
TiAlN Finish					
3 Flutes					
0.25 in	¾ in	2.5 in	¼ in	OSG	35CW06
0.5 in	1 in	3 in	½ in	OSG	35CW20
4.5 mm	14 mm	51 mm	5 mm	OSG	35CW48
7 mm	19 mm	64 mm	8 mm	OSG	35CW54
8 mm	21 mm	64 mm	8 mm	OSG	35CW56
10 mm	25 mm	70 mm	10 mm	OSG	35CW60
11 mm	25 mm	70 mm	11 mm	OSG	35CW62
14 mm	30 mm	89 mm	14 mm	OSG	35CW66
16 mm	32 mm	89 mm	16 mm	OSG	35CW68
20 mm	38 mm	102 mm	20 mm	OSG	35CW72
22 mm	38 mm	102 mm	22 mm	OSG	35CW74
25 mm	38 mm	102 mm	25 mm	OSG	35CW76
TiCN Finish					
2 Flutes					
0.25 in	¾ in	2.5 in	¼ in	—	45XT29
0.5 in	1 in	3 in	½ in	—	45XT52
0.25 in	1 ½ in	4 in	¼ in	—	45XW80
0.5 in	1 ½ in	6 in	½ in	—	45XW94
0.75 in	1 ½ in	6 in	¾ in	—	45XX05
3.5 mm	12 mm	51 mm	4 mm	—	45XT76
5 mm	16 mm	51 mm	5 mm	—	45XT82
10 mm	22 mm	76 mm	10 mm	—	45XT92
14 mm	32 mm	90 mm	14 mm	—	45XT98
18 mm	38 mm	102 mm	18 mm	—	45XU03
20 mm	38 mm	102 mm	20 mm	—	45XU05
4 Flutes					
0.5 in	⅝ in	2.5 in	½ in	—	45XR89
0.375 in	⅝ in	2 in	⅜ in	—	45XR85
0.375 in	1 in	2.5 in	⅜ in	—	45XV44
0.5 in	1 in	3 in	½ in	—	45XV54
0.25 in	1 ⅛ in	3 in	¼ in	—	45XW56
0.625 in	1 ¼ in	3.5 in	⅝ in	—	45XV59
0.5 in	1 ½ in	4 in	½ in	—	45XW64
0.25 in	1 ½ in	4 in	¼ in	—	45XX17
0.375 in	1 ¾ in	4 in	⅜ in	—	45XX25
0.75 in	1 ½ in	6 in	¾ in	—	45XX41
0.5 in	2 in	4 in	½ in	—	45XW66
0.75 in	2 ¼ in	5 in	¾ in	—	45XW70
0.5 in	3 in	6 in	½ in	—	45XX33
0.625 in	3 in	6 in	⅝ in	—	45XX35
1 in	1 ½ in	6 in	1 in	—	45XX45
1 in	3 in	6 in	1 in	—	45XX43
3.5 mm	12 mm	51 mm	4 mm	—	45XV78
4.5 mm	16 mm	51 mm	5 mm	—	45XV82
5 mm	16 mm	51 mm	5 mm	—	45XV84
7 mm	19 mm	63 mm	8 mm	—	45XV88
8 mm	20 mm	63 mm	8 mm	—	45XV90
10 mm	22 mm	76 mm	10 mm	—	45XV94
11 mm	25 mm	76 mm	12 mm	—	45XV96
12 mm	25 mm	76 mm	12 mm	—	45XV98
14 mm	32 mm	90 mm	14 mm	—	45XW01
18 mm	38 mm	102 mm	18 mm	—	45XW05
20 mm	38 mm	102 mm	20 mm	—	45XW07
TiN					
2 Flutes					
0.5 in	1 in	3 in	½ in	—	45XT51
0.125 in	1 in	3 in	⅛ in	—	45XW73
0.5 in	2 in	4 in	½ in	—	45XW41
3.5 mm	12 mm	51 mm	4 mm	—	45XT75
11 mm	31/32 in	2.5 in	15/32 in	—	45XT93
12 mm	25 mm	76 mm	12 mm	—	45XT95
14 mm	32 mm	90 mm	14 mm	—	45XT97
18 mm	38 mm	102 mm	18 mm	—	45XU02
20 mm	38 mm	102 mm	20 mm	—	45XU04
4 Flutes					
0.25 in	½ in	2 in	¼ in	—	45XR81
0.5 in	⅝ in	2.5 in	½ in	—	45XR88
0.25 in	¾ in	2.5 in	¼ in	—	45XV32
0.5 in	1 in	3 in	½ in	—	45XV53
0.25 in	1 ⅛ in	3 in	¼ in	—	45XW55
0.5 in	1 ½ in	4 in	½ in	—	45XW63
0.25 in	1 ½ in	4 in	¼ in	—	45XX16
0.5 in	1 ½ in	6 in	½ in	—	45XX30
0.25 in	1 ½ in	6 in	¼ in	—	45XX18
0.75 in	1 ½ in	6 in	¾ in	—	45XX40
0.5 in	2 in	4 in	½ in	—	45XW65
0.75 in	2 ¼ in	5 in	¾ in	—	45XW69
0.5 in	3 in	6 in	½ in	—	45XX32
1 in	1 ½ in	6 in	1 in	—	45XX44
1 in	3 in	6 in	1 in	—	45XX42
3.5 mm	12 mm	51 mm	4 mm	—	45XV77
12 mm	25 mm	76 mm	12 mm	—	45XV97
14 mm	32 mm	90 mm	14 mm	—	45XV99
18 mm	38 mm	102 mm	18 mm	—	45XW04
20 mm	38 mm	102 mm	20 mm	—	45XW06

Additional End Mill sizes, materials, and coatings are available on Grainger.com®.

General Purpose Finishing Cobalt Ball End Mills

TiN Finish
2 Flutes
437Z54

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Bright (Uncoated) Finish					
2 Flutes					
1/8 in	3/8 in	2.3 in	3/8 in	Cleveland	**2NFP8**
1/8 in	3/8 in	2.3 in	3/8 in	OSG	**35DG77**
3/16 in	1/2 in	2.6 in	3/8 in	YG-1 Tool Company	**55FP45**
3/16 in	1/2 in	2.3 in	3/8 in	OSG	**35DG78**
1/4 in	5/8 in	3 in	3/8 in	YG-1 Tool Company	**55FR25**
5/16 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFR2**
5/16 in	3/4 in	2.5 in	3/8 in	OSG	**35DG80**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFR3**
7/16 in	1 in	3 in	1/2 in	OSG	**35DG98**
1/2 in	1 in	3 in	1/2 in	YG-1 Tool Company	**35V286**
1/2 in	2 in	4 in	1/2 in	OSG	**35DG97**
9/16 in	1 1/8 in	3.1 in	1/2 in	YG-1 Tool Company	**35V287**
5/8 in	1 3/8 in	3.5 in	5/8 in	OSG	**35DG87**
5/8 in	1 3/8 in	4.6 in	5/8 in	OSG	**35DH06**
3/4 in	1 5/16 in	3.3 in	1/2 in	YG-1 Tool Company	**35V290**
3/4 in	1 5/8 in	5.3 in	3/4 in	YG-1 Tool Company	**55FX44**
7/8 in	1 7/8 in	4.1 in	3/4 in	OSG	**35DG89**
7/8 in	2 in	4.2 in	3/4 in	YG-1 Tool Company	**35V292**
1 1/4 in	1 5/8 in	3.8 in	3/4 in	YG-1 Tool Company	**35V298**
1 1/8 in	1 5/8 in	3.8 in	3/4 in	YG-1 Tool Company	**35V296**
1 1/2 in	1 5/8 in	4.1 in	3/4 in	YG-1 Tool Company	**35V303**
1 3/8 in	1 5/8 in	4.1 in	3/4 in	YG-1 Tool Company	**35V301**
1 in	2 1/4 in	4.7 in	1 in	OSG	**35DG93**
1 1/4 in	2 1/2 in	5 in	1 1/4 in	OSG	**35DG95**
1 in	2 1/2 in	7.2 in	1 in	YG-1 Tool Company	**55FZ03**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**35V305**
4 Flutes					
1/8 in	3/8 in	2.3 in	3/8 in	Cleveland	**2NFT8**
3/16 in	1/2 in	2.3 in	3/8 in	Cleveland	**2NFT9**
3/16 in	1/2 in	2.3 in	3/8 in	YG-1 Tool Company	**35V408**
1/4 in	5/8 in	2.4 in	3/8 in	YG-1 Tool Company	**35V409**
1/4 in	1 1/4 in	3 in	3/8 in	YG-1 Tool Company	**55FR30**
5/16 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFU2**
5/16 in	1 3/8 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT01**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFU3**
3/8 in	1 1/2 in	3.2 in	3/8 in	YG-1 Tool Company	**55FT54**
7/16 in	1 1/4 in	3.2 in	1/2 in	OSG	**35DJ91**
1/2 in	1 1/4 in	3.2 in	1/2 in	OSG	**35DJ83**
5/8 in	1 5/8 in	3.7 in	5/8 in	OSG	**35DJ84**
5/8 in	2 1/2 in	4.6 in	5/8 in	OSG	**35DJ85**
11/16 in	1 5/8 in	3.7 in	5/8 in	YG-1 Tool Company	**35V415**
3/4 in	1 5/8 in	3.8 in	3/4 in	Cleveland	**2NFU6**
3/4 in	3 in	5.2 in	3/4 in	Cleveland	**438H11**
7/8 in	3 1/2 in	5.7 in	7/8 in	YG-1 Tool Company	**55FY43**
1 1/4 in	2 in	4.5 in	1 1/4'	YG-1 Tool Company	**35V420**
1 in	4 in	6.5 in	1 in	YG-1 Tool Company	**55FZ08**
2 in	2 in	4.5 in	1 1/4 in	YG-1 Tool Company	**35V422**
6 Flutes					
1 1/2 in	2 in	4.5 in	1 1/4 in	Cleveland	**437Z66**
1 1/4 in	2 in	4.5 in	1 1/4 in	Cleveland	**437Z65**
1 in	2 in	4.5 in	1 in	Cleveland	**438H09**
TiCN Finish					
2 Flutes					
1/8 in	3/8 in	2.3 in	3/8 in	YG-1 Tool Company	**55FM94**
3/16 in	1/2 in	2.6 in	3/8 in	YG-1 Tool Company	**55FP46**
3/16 in	1/2 in	2.3 in	3/8 in	Cleveland	**2NFR9**
1/4 in	5/8 in	3 in	3/8 in	YG-1 Tool Company	**55FR26**
5/16 in	3/4 in	2.5 in	3/8 in	YG-1 Tool Company	**55FR93**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFT3**
3/8 in	3/4 in	3.3 in	3/8 in	YG-1 Tool Company	**55FT50**
1/2 in	1 in	3.2 in	1/2 in	Cleveland	**2NFT4**
9/16 in	1 1/8 in	3.1 in	1/2 in	YG-1 Tool Company	**55FW29**
5/8 in	1 3/8 in	4.6 in	5/8 in	YG-1 Tool Company	**55FW50**
3/4 in	1 5/16 in	3.3 in	1/2 in	YG-1 Tool Company	**55FX40**
3/4 in	1 5/8 in	5.3 in	3/4 in	YG-1 Tool Company	**55FX45**
7/8 in	1 7/8 in	4.1 in	7/8 in	Cleveland	**437Z64**
7/8 in	2 in	4.2 in	3/4 in	YG-1 Tool Company	**55FY37**
1 1/8 in	1 5/8 in	3.8 in	3/4 in	YG-1 Tool Company	**55FZ96**
1 in	2 1/4 in	4.7 in	1 in	Cleveland	**2NFT7**
1 in	2 1/4 in	4.7 in	1 in	YG-1 Tool Company	**55FZ02**
1 1/2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC04**
1 1/4 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GA22**
1 3/8 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GA93**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC85**
4 Flutes					
3/16 in	1/2 in	2.3 in	3/8 in	Cleveland	**2NFU9**
1/4 in	1 1/4 in	3 in	3/8 in	YG-1 Tool Company	**55FR31**
5/16 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFV2**
5/16 in	1 3/8 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT02**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**2NFV3**
3/8 in	1 1/2 in	3.2 in	3/8 in	YG-1 Tool Company	**55FT55**
7/16 in	1 in	2.6 in	3/8 in	YG-1 Tool Company	**55FV16**
1/2 in	1 1/4 in	3.2 in	1/2 in	Cleveland	**2NFV4**
1/2 in	2 in	4 in	1/2 in	YG-1 Tool Company	**55FV59**
5/8 in	1 5/8 in	3.7 in	5/8 in	YG-1 Tool Company	**55FW52**
5/8 in	2 1/2 in	4.6 in	5/8 in	YG-1 Tool Company	**55FW55**
11/16 in	1 5/8 in	3.7 in	5/8 in	YG-1 Tool Company	**55FX23**
3/4 in	1 5/8 in	3.8 in	3/4 in	YG-1 Tool Company	**55FX47**
7/8 in	3 1/2 in	5.7 in	7/8 in	YG-1 Tool Company	**55FY44**
1 in	1 7/8 in	4.5 in	1 in	YG-1 Tool Company	**55FZ06**
1 1/8 in	2 in	4.5 in	1 in	YG-1 Tool Company	**55GA01**
1 in	4 in	6.5 in	1 in	YG-1 Tool Company	**55FZ09**
2 in	2 in	4.5 in	1 1/4 in	YG-1 Tool Company	**55GC87**
6 Flutes					
1 1/2 in	2 in	4.5 in	1 1/4 in	Cleveland	**437Z83**
1 in	2 in	4.5 in	1 in	Cleveland	**437Z81**
TiN Finish					
2 Flutes					
1/8 in	3/8 in	2.3 in	3/8 in	Cleveland	**437Z54**
3/16 in	1/2 in	2.3 in	3/8 in	Cleveland	**437Z55**
1/4 in	5/8 in	3 in	3/8 in	YG-1 Tool Company	**55FR27**
5/16 in	3/4 in	2.5 in	3/8 in	YG-1 Tool Company	**55FR94**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**437Z58**
3/8 in	3/4 in	3.3 in	3/8 in	YG-1 Tool Company	**55FT51**
7/16 in	1 in	3 in	1/2 in	YG-1 Tool Company	**55FV12**
1/2 in	1 in	3.2 in	1/2 in	Cleveland	**437Z59**
5/8 in	1 1/8 in	3.1 in	1/2 in	YG-1 Tool Company	**55FW46**
5/8 in	1 3/8 in	4.6 in	5/8 in	YG-1 Tool Company	**55FW51**
3/4 in	1 5/16 in	3.3 in	1/2 in	YG-1 Tool Company	**55FX41**
3/4 in	1 5/8 in	5.3 in	3/4 in	YG-1 Tool Company	**55FX46**
7/8 in	1 7/8 in	4.1 in	7/8 in	Cleveland	**437Z62**
7/8 in	2 in	4.2 in	3/4 in	YG-1 Tool Company	**55FY38**
1 3/8 in	1 5/8 in	4.1 in	3/4 in	YG-1 Tool Company	**55GA92**
1 in	2 1/4 in	4.7 in	1 in	Cleveland	**437Z63**
2 in	2 1/2 in	5 in	1 1/4 in	YG-1 Tool Company	**55GC86**
4 Flutes					
1/8 in	3/8 in	2.3 in	3/8 in	Cleveland	**437Z67**
3/16 in	1/2 in	2.3 in	3/8 in	Cleveland	**437Z68**
1/4 in	5/8 in	2.4 in	3/8 in	Cleveland	**437Z69**
5/16 in	1 3/8 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT03**
3/8 in	3/4 in	2.5 in	3/8 in	Cleveland	**437Z71**
3/8 in	1 1/2 in	3.2 in	3/8 in	YG-1 Tool Company	**55FT56**
7/16 in	1 in	2.6 in	3/8 in	YG-1 Tool Company	**55FV17**
1/2 in	2 in	4 in	1/2 in	YG-1 Tool Company	**55FV60**
5/8 in	1 5/8 in	3.7 in	5/8 in	Cleveland	**437Z73**
11/16 in	1 5/8 in	3.7 in	5/8 in	YG-1 Tool Company	**55FX24**
3/4 in	1 5/8 in	3.8 in	3/4 in	YG-1 Tool Company	**55FX48**
7/8 in	3 1/2 in	5.7 in	7/8 in	YG-1 Tool Company	**55FY45**
1 in	1 7/8 in	4.5 in	1 in	YG-1 Tool Company	**55FZ07**
1 1/8 in	2 in	4.5 in	1 in	YG-1 Tool Company	**55GA02**
1 in	4 in	6.5 in	1 in	YG-1 Tool Company	**55FZ10**
2 in	2 in	4.5 in	1 1/4 in	YG-1 Tool Company	**55GC88**
6 Flutes					
1 1/4 in	2 in	4.5 in	1 1/4 in	Cleveland	**437Z78**

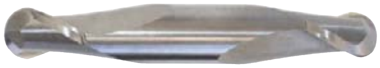
TiCN Finish
4 Flutes
55FN20

General Purpose Double-End Finishing Bright Finish Cobalt Ball End Mills

- 30° helix angle

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Bright (Uncoated) Finish					
2 Flutes					
1/8 in	3/16 in	2 in	3/16 in	OSG	**35DN65**
1/8 in	3/8 in	2.2 in	3/16 in	OSG	**35DN70**
1/8 in	3/8 in	3 in	3/8 in	OSG	**35DN12**
5/32 in	15/64 in	2 in	3/16 in	OSG	**35DN66**
5/32 in	13/32 in	2.2 in	3/16 in	YG-1 Tool Company	**55FP12**
5/32 in	7/16 in	2.2 in	3/16 in	OSG	**35DN71**
1/4 in	1/2 in	3.1 in	3/8 in	YG-1 Tool Company	**55FR57**
3/8 in	9/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT75**
1/2 in	13/16 in	3.7 in	1/2 in	YG-1 Tool Company	**55FV91**
5/8 in	1 1/8 in	4.5 in	5/8 in	OSG	**35DN18**
3/4 in	1 5/16 in	5 in	3/4 in	OSG	**35DN19**
4 Flutes					
1/8 in	3/8 in	3 in	3/8 in	YG-1 Tool Company	**55FN19**
1/4 in	5/8 in	3.3 in	3/8 in	YG-1 Tool Company	**55FR60**
3/8 in	3/4 in	3.5 in	3/8 in	YG-1 Tool Company	**55FT78**
1/2 in	1 in	4.1 in	1/2 in	YG-1 Tool Company	**55FV94**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW90**
3/4 in	1 5/8 in	5.6 in	3/4 in	YG-1 Tool Company	**55FX88**
1 in	1 7/8 in	6.3 in	1 in	YG-1 Tool Company	**55FZ55**
TiCN Finish					
2 Flutes					
1/8 in	3/16 in	2 in	3/16 in	YG-1 Tool Company	**55FN40**
5/32 in	15/64 in	2 in	3/16 in	YG-1 Tool Company	**55FP10**
3/16 in	7/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FP68**
1/4 in	1/2 in	3.1 in	3/8 in	YG-1 Tool Company	**55FR58**
5/16 in	9/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT24**
3/8 in	9/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT76**
1/2 in	13/16 in	3.7 in	1/2 in	YG-1 Tool Company	**55FV92**
5/8 in	1 1/8 in	4.5 in	5/8 in	YG-1 Tool Company	**55FW88**
3/4 in	1 5/16 in	5 in	3/4 in	YG-1 Tool Company	**55FX86**
4 Flutes					
1/8 in	3/8 in	3 in	3/8 in	YG-1 Tool Company	**55FN20**
1/4 in	5/8 in	3.3 in	3/8 in	YG-1 Tool Company	**55FR61**
5/16 in	3/4 in	3.5 in	3/8 in	YG-1 Tool Company	**55FT27**
3/8 in	3/4 in	3.5 in	3/8 in	YG-1 Tool Company	**55FT79**
1/2 in	1 in	4.1 in	1/2 in	YG-1 Tool Company	**55FV95**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW91**
3/4 in	1 5/8 in	5.6 in	3/4 in	YG-1 Tool Company	**55FX89**
TiN Finish					
2 Flutes					
1/8 in	3/8 in	3 in	3/8 in	YG-1 Tool Company	**55FN18**
5/32 in	13/32 in	2.2 in	3/16 in	YG-1 Tool Company	**55FP14**
3/16 in	9/32 in	2 in	3/16 in	YG-1 Tool Company	**55FP93**
1/4 in	1/2 in	3.1 in	3/8 in	YG-1 Tool Company	**55FR59**
5/16 in	9/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT25**
3/8 in	9/16 in	3.1 in	3/8 in	YG-1 Tool Company	**55FT77**
1/2 in	13/16 in	3.7 in	1/2 in	YG-1 Tool Company	**55FV93**
5/8 in	1 1/8 in	4.5 in	5/8 in	YG-1 Tool Company	**55FW89**
3/4 in	1 5/16 in	5 in	3/4 in	YG-1 Tool Company	**55FX87**
1 in	1 5/8 in	5.8 in	1 in	YG-1 Tool Company	**55FZ54**
4 Flutes					
1/8 in	3/8 in	3 in	3/8 in	YG-1 Tool Company	**55FN21**
3/16 in	1/2 in	3.2 in	3/8 in	YG-1 Tool Company	**55FP72**
1/4 in	5/8 in	3.3 in	3/8 in	YG-1 Tool Company	**55FR62**
5/16 in	3/4 in	3.5 in	3/8 in	YG-1 Tool Company	**55FT28**
3/8 in	3/4 in	3.5 in	3/8 in	YG-1 Tool Company	**55FT80**
1/2 in	1 in	4.1 in	1/2 in	YG-1 Tool Company	**55FV96**
5/8 in	1 3/8 in	5 in	5/8 in	YG-1 Tool Company	**55FW92**
3/4 in	1 5/8 in	5.6 in	3/4 in	YG-1 Tool Company	**55FX90**

Bright (Uncoated) Finish
2 Flutes
19LV48



Miniature General Purpose Double-End Roughing/Finishing Carbide Ball End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Neck Length	Brand	Item No.
AlTin Finish						
2 Flutes						
1/32 in	1/16 in	1.5 in	1/8 in	0 in	—	**19LV68**
3/64 in	3/32 in	1.5 in	1/8 in	0 in	—	**19LV72**
1/16 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV70**
5/64 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV69**
3/32 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV73**
7/64 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV71**
4 Flutes						
1/32 in	1/16 in	1.5 in	1/8 in	0 in	—	**19LW21**
3/64 in	3/32 in	1.5 in	1/8 in	0 in	—	**19LW22**
1/16 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LW24**
5/64 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LW23**
3/32 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LW25**
7/64 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LW26**
Bright (Uncoated) Finish						
2 Flutes						
1/32 in	1/16 in	1.5 in	1/8 in	0 in	—	**19LV47**
1/32 in	5/64 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ59**
3/64 in	3/32 in	1.5 in	1/8 in	0 in	—	**19LV48**
3/64 in	3/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ60**
1/16 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV49**
1/16 in	1/8 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ61**
5/64 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV50**
5/64 in	1/8 in	1.5 in	1/8 in	1 3/8 in	SGS Tool	**41CG26**
5/64 in	5/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ62**
3/32 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV51**
3/32 in	3/16 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ63**
7/64 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV52**
7/64 in	7/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ64**
3 Flutes						
1/32 in	5/64 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ75**
1/16 in	1/8 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ76**
3/32 in	3/16 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ77**
4 Flutes						
1/32 in	1/16 in	1.5 in	1/8 in	0 in	—	**19LV89**
1/32 in	5/64 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ87**
3/64 in	3/32 in	1.5 in	1/8 in	0 in	—	**19LV90**
3/64 in	3/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ88**
1/16 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV91**
1/16 in	1/8 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ89**
1/16 in	1/8 in	1.5 in	1/8 in	1 3/8 in	SGS Tool	**41CG07**
5/64 in	1/8 in	1.5 in	1/8 in	0 in	—	**19LV92**
5/64 in	5/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ90**
3/32 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV93**
3/32 in	3/16 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ91**
7/64 in	3/16 in	1.5 in	1/8 in	0 in	—	**19LV94**
7/64 in	7/32 in	1.5 in	1/8 in	Not Applicable	OSG	**35CZ92**

Corner-Radius End Mills

Corner-radius end mills have a square nose with slightly rounded corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. Sometimes called bull-nose end mills, they create a flat-bottomed groove with slightly rounded inside corners in milling applications that require a specific radius.

High-performance end mills are used in production milling.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.

AlTin Finish
5 Flutes
48GW03

High-Performance Finishing Carbide Corner-Radius End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
AlTin Finish						
4 Flutes						
5/8 in	1 5/8 in	4 1/8 in	5/8 in	0.03 in	Widia Hanita	**287RP4**
3/4 in	1 5/8 in	4 in	3/4 in	0.03 in	Widia Hanita	**287RP5**
3/4 in	2 1/4 in	5 in	3/4 in	0.12 in	Widia Hanita	**287RR6**
5 Flutes						
1/4 in	3/8 in	2 in	1/4 in	0.06 in	Widia Hanita	**430F46**
1/4 in	1/2 in	4 in	1/4 in	0.015 in	Widia Hanita	**48JH13**
1/4 in	5/8 in	4 in	1/4 in	0.015 in	Widia Hanita	**430G44**
1/4 in	1 1/8 in	3 in	1/4 in	0.06 in	Widia Hanita	**430F54**
1/4 in	1 in	3 in	1/4 in	0.03 in	Widia Hanita	**48JE69**
3/8 in	1/2 in	2 in	3/8 in	0.12 in	Widia Hanita	**430F63**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.06 in	Widia Hanita	**48JG70**
3/8 in	1 in	2 1/2 in	3/8 in	0.12 in	Widia Hanita	**430F68**
3/8 in	1 1/4 in	3 in	3/8 in	0.03 in	Widia Hanita	**287RD9**
3/8 in	1 in	3 in	3/8 in	0.015 in	Widia Hanita	**430F70**
3/8 in	1 1/2 in	4 in	3/8 in	0.015 in	Widia Hanita	**48JE74**
1/2 in	5/8 in	5 in	1/2 in	0.12 in	Widia Hanita	**430G71**
1/2 in	1 1/4 in	3 in	1/2 in	0.09 in	Widia Hanita	**430F85**
1/2 in	1 in	3 in	1/2 in	0.12 in	Widia Hanita	**430F80**
1/2 in	1 5/8 in	4 in	1/2 in	0.12 in	Widia Hanita	**430F90**
1/2 in	2 1/8 in	4 in	1/2 in	0.12 in	Widia Hanita	**287RF2**
1/2 in	2 in	5 in	1/2 in	0.06 in	Widia Hanita	**48JE80**
5/8 in	3/4 in	3 in	5/8 in	0.06 in	Widia Hanita	**430F93**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.12 in	Widia Hanita	**430F98**
5/8 in	1 5/8 in	3 1/2 in	5/8 in	0.03 in	Widia Hanita	**287RF6**
5/8 in	1 1/4 in	4 in	5/8 in	0.03 in	Widia Hanita	**48GW03**
5/8 in	2 1/2 in	5 1/4 in	5/8 in	0.015 in	Widia Hanita	**48JE82**
5/8 in	2 5/8 in	5 in	5/8 in	0.03 in	Widia Hanita	**287RG1**
3/4 in	1 3/4 in	4 in	3/4 in	0.12 in	Widia Hanita	**287RX0**
3/4 in	1 5/8 in	4 in	3/4 in	0.03 in	Widia Hanita	**430G12**
3/4 in	1 in	4 in	3/4 in	0.12 in	Widia Hanita	**430G88**
3/4 in	1 1/2 in	6 in	3/4 in	0.12 in	Widia Hanita	**430G94**
3/4 in	3 1/4 in	6 in	3/4 in	0.03 in	Widia Hanita	**287RH1**
3/4 in	3 in	6 in	3/4 in	0.12 in	Widia Hanita	**48JE91**
1 in	1 1/4 in	4 in	1 in	0.015 in	Widia Hanita	**430G97**
1 in	1 1/4 in	4 in	1 in	1/4 in	Widia Hanita	**430G24**
1 in	1 3/4 in	5 1/2 in	1 in	0.03 in	Widia Hanita	**48GW07**
1 in	2 1/4 in	5 in	1 in	0.03 in	Widia Hanita	**287RH5**
1 in	3 1/4 in	6 in	1 in	1/4 in	Widia Hanita	**430G31**
1 in	4 in	7 in	1 in	0.12 in	Widia Hanita	**48JE97**
1 1/4 in	5 in	8 in	1 1/4 in	0.06 in	Widia Hanita	**430G37**
7 Flutes						
3/8 in	3/4 in	4 in	3/8 in	0.015 in	Widia Hanita	**48GW35**
3/8 in	1 1/8 in	3 in	3/8 in	0.015 in	Widia Hanita	**48GW09**
3/8 in	1 7/8 in	4 in	3/8 in	0.015 in	Widia Hanita	**48GW24**
1/2 in	1 1/2 in	3 1/2 in	1/2 in	0.12 in	Widia Hanita	**48GW13**
1/2 in	1 in	4 1/2 in	1/2 in	0.12 in	Widia Hanita	**48GW39**
1/2 in	2 1/2 in	4 1/2 in	1/2 in	0.03 in	Widia Hanita	**48GW26**
5/8 in	1 7/8 in	4 in	5/8 in	0.06 in	Widia Hanita	**48GW15**
5/8 in	1 1/4 in	5 in	5/8 in	0.03 in	Widia Hanita	**48GW40**
5/8 in	3 1/8 in	5 1/2 in	5/8 in	0.03 in	Widia Hanita	**48GW29**
3/4 in	1 1/2 in	5 1/2 in	3/4 in	0.12 in	Widia Hanita	**48GW46**
3/4 in	3 3/4 in	6 in	3/4 in	0.12 in	Widia Hanita	**48GW33**
1 in	2 in	6 in	1 in	0.06 in	Widia Hanita	**48GW48**
1 in	3 in	5 1/2 in	1 in	0.06 in	Widia Hanita	**48GW22**
1 in	5 in	7 1/2 in	1 in	0.06 in	Widia Hanita	**48GW34**
Bright (Uncoated) Finish						
3 Flutes						
1/8 in	1/4 in	1 1/2 in	1/8 in	0 in	—	**55HL62**
1/8 in	1/2 in	1 1/2 in	1/8 in	0 in	—	**55HL08**
3/16 in	5/8 in	2 in	3/16 in	0 in	—	**55HL10**
5/16 in	13/16 in	2 1/2 in	5/16 in	0 in	—	**55HL14**
7/16 in	1 in	2 3/4 in	7/16 in	0 in	—	**55HL18**
3/4 in	1 1/2 in	4 in	3/4 in	0 in	—	**55HL24**
4 Flutes						
3/16 in	5/8 in	2 in	3/16 in	0 in	—	**55HK69**
1/4 in	3/4 in	2 1/2 in	1/4 in	0 in	—	**55HK71**
5/16 in	13/16 in	2 1/2 in	5/16 in	0 in	—	**55HK73**
7/16 in	1 in	2 3/4 in	7/16 in	0 in	—	**55HK77**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0 in	—	**55HK81**
3/4 in	1 1/2 in	4 in	3/4 in	0 in	—	**55HK83**
1 in	1 1/2 in	4 in	1 in	0 in	—	**55HK65**
1 in	1 1/2 in	4 in	1 in	0 in	—	**55HL06**
TiAlN Finish						
4 Flutes						
1/8 in	3/8 in	1 1/2 in	1/8 in	0.01 in	OSG	**30L659**
1/8 in	1/2 in	1 1/2 in	1/8 in	0.01 in	Cleveland	**33GD65**
3/16 in	5/8 in	2 in	3/16 in	0.03 in	Widia Hanita	**430H21**
3/16 in	3/4 in	2 1/2 in	3/16 in	0.01 in	Cleveland	**33GD71**
1/4 in	7/16 in	2 1/2 in	1/4 in	0.015 in	OSG	**30L663**
1/4 in	1/2 in	2 in	1/4 in	0.02 in	Cleveland	**33GD73**
1/4 in	3/4 in	2 1/2 in	1/4 in	0.015 in	OSG	**30L665**
3/8 in	1/2 in	2 1/2 in	3/8 in	0.03 in	OSG	**30L670**
3/8 in	5/8 in	2 in	3/8 in	0.02 in	Cleveland	**33GD87**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.015 in	OSG	**30L678**
3/8 in	1 in	2 1/2 in	3/8 in	0.015 in	Widia Hanita	**430H69**
3/8 in	1 1/8 in	3 in	3/8 in	0.02 in	Cleveland	**33GD91**
3/8 in	2 in	4 in	3/8 in	0.02 in	Cleveland	**33GD93**
1/2 in	1/2 in	2 1/2 in	1/2 in	0.02 in	Cleveland	**33GE01**
1/2 in	5/8 in	2 1/2 in	1/2 in	0.03 in	OSG	**30L693**
1/2 in	5/8 in	4 in	1/2 in	0.06 in	Widia Hanita	**287RM2**
1/2 in	1 1/4 in	3 1/2 in	1/2 in	0.015 in	OSG	**30L696**
1/2 in	1 in	3 in	1/2 in	0.06 in	OSG	**30L686**
1/2 in	1 1/4 in	3 1/2 in	1/2 in	1/8 in	OSG	**30L692**
1/2 in	2 in	4 in	1/2 in	0.03 in	Cleveland	**33GE15**
5/8 in	3/4 in	3 in	5/8 in	0.03 in	Cleveland	**33GE20**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.09 in	Widia Hanita	**430H46**
3/4 in	7/8 in	3 in	3/4 in	0.03 in	Cleveland	**33GE31**
3/4 in	1 in	3 in	3/4 in	0.03 in	Cleveland	**33GE33**
3/4 in	1 1/2 in	4 in	3/4 in	0.03 in	Widia Hanita	**430H50**
3/4 in	1 5/8 in	4 in	3/4 in	0.02 in	OSG	**30L725**
3/4 in	2 1/4 in	5 in	3/4 in	0.06 in	OSG	**30L726**
1 in	1 1/2 in	4 in	1 in	0.03 in	OSG	**30L651**
1 in	1 1/8 in	5 1/2 in	1 in	0.03 in	Widia Hanita	**287RM7**
1 in	2 1/4 in	5 in	1 in	1/8 in	Cleveland	**33GE53**
1 in	3 in	5 in	1 in	0.03 in	Cleveland	**33GE55**
1 in	3 in	5 in	1 in	1/8 in	Cleveland	**33GE58**
5 Flutes						
3/16 in	7/16 in	2 in	3/16 in	0.03 in	OSG	**30M226**
3/16 in	5/8 in	2 1/4 in	3/16 in	0.015 in	OSG	**30M227**
1/4 in	3/8 in	2 in	1/4 in	0.015 in	OSG	**30M232**
3/8 in	1/2 in	2 in	3/8 in	0.015 in	OSG	**30M245**
3/8 in	7/8 in	2 1/2 in	3/8 in	0.03 in	OSG	**30M240**
1/2 in	1 1/4 in	3 1/2 in	1/2 in	0.12 in	OSG	**30M264**
5/8 in	3/4 in	3 in	5/8 in	0.03 in	OSG	**30M293**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.09 in	OSG	**30M291**
3/4 in	1 1/2 in	4 in	3/4 in	0.03 in	OSG	**30M312**
3/4 in	1 1/8 in	4 in	3/4 in	0.12 in	OSG	**30M319**
1 in	1 1/2 in	4 in	1 in	0.03 in	OSG	**30M201**

High-Performance Roughing/Finishing Carbide Corner-Radius End Mills

nACRo Finish
5 Flute
54EX48

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
AlTin Finish						
4 Flutes						
⅛ in	⅜ in	1 ½ in	⅛ in	0.015 in	SGS Tool	**41CG61**
3/16 in	⅝ in	2 in	3/16 in	0.01 in	Micro 100	**14M961**
¼ in	½ in	4 in	¼ in	0.02 in	Micro 100	**14N074**
¼ in	¾ in	2 ½ in	¼ in	0.02 in	Micro 100	**14M963**
¼ in	1 ⅛ in	3 in	¼ in	0.02 in	Micro 100	**14N056**
⅜ in	¾ in	4 in	⅜ in	0.02 in	Micro 100	**14N078**
⅜ in	⅞ in	2 ½ in	⅜ in	0.02 in	Micro 100	**14M967**
⅜ in	1 in	2 ½ in	⅜ in	0.3 in	SGS Tool	**41CD15**
⅜ in	1 ¼ in	3 in	⅜ in	0.02 in	Micro 100	**14N060**
⅜ in	1 ¾ in	4 in	⅜ in	0.045 in	SGS Tool	**41AZ04**
½ in	⅝ in	3 in	½ in	0.03 in	Micro 100	**14N012**
½ in	1 ¼ in	3 ¼ in	½ in	0.4 in	SGS Tool	**41AX19**
½ in	1 in	3 in	½ in	0.03 in	Micro 100	**14M971**
½ in	2 ¼ in	4 ½ in	½ in	0.03 in	Micro 100	**14N064**
9/16 in	1 ⅛ in	3 ½ in	9/16 in	0.3 in	SGS Tool	**41AX27**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.03 in	Micro 100	**14M973**
⅝ in	2 ¼ in	5 in	⅝ in	0.03 in	Micro 100	**14N066**
¾ in	1 ½ in	4 in	¾ in	0.03 in	Micro 100	**14M975**
¾ in	2 ¼ in	5 in	¾ in	0.4 in	SGS Tool	**41AV13**
¾ in	3 in	6 in	¾ in	0.4 in	SGS Tool	**41AU63**
1 in	1 ½ in	4 in	1 in	0.03 in	Micro 100	**14M957**
4.00 mm	11.00 mm	57.00 mm	6.00 mm	1.00mm	Micro 100	**14T397**
5.00 mm	13.00 mm	57.00 mm	6.00 mm	1.00mm	Micro 100	**14T404**
6.00 mm	13.00 mm	57.00 mm	6.00 mm	0.50mm	Micro 100	**14T408**
8.00 mm	19.00 mm	75.00 mm	8.00 mm	0.50mm	Micro 100	**14T416**
10.00 mm	12.00 mm	100.0 mm	10.00 mm	0.60mm	Micro 100	**14N096**
10.00 mm	22.00 mm	80.00 mm	10.00 mm	0.50mm	Micro 100	**14T424**
12.00 mm	26.00 mm	83.00 mm	12.00 mm	0.60mm	Micro 100	**14M989**
20.00 mm	38.00 mm	125.00 mm	20.00 mm	1.00mm	Micro 100	**14G199**
5 Flutes						
¼ in	¾ in	2 ½ in	¼ in	0.01 in	Micro 100	**16E944**
¼ in	¾ in	2 ½ in	¼ in	0.06 in	Widia Hanita	**48GV02**
⅜ in	1 in	2 ½ in	⅜ in	0.1 in	SGS Tool	**41AZ78**
½ in	1 in	3 in	½ in	0.01 in	Micro 100	**16F009**
¾ in	1 ½ in	5 ½ in	¾ in	0.03 in	Widia Hanita	**48JH29**
1 in	1 ¼ in	7 in	1 in	¼ in	—	**55JD38**
6 Flutes						
¼ in	17/32 in	3 ½ in	¼ in	0.6 in	SGS Tool	**41AX94**
EXO Finish						
3 Flutes						
4.00 mm	8.00 mm	70.00 mm	6.00 mm	1.00mm	OSG	**34ZW86**
8.00 mm	16.00 mm	90.00 mm	8.00 mm	2.00mm	OSG	**34ZW89**
10.00 mm	20.00 mm	100.00 mm	10.00 mm	2.00mm	OSG	**34ZW90**
12.00 mm	24.00 mm	120.00 mm	12.00 mm	2.00mm	OSG	**34ZW91**
16.00 mm	32.00 mm	130.00 mm	16.00 mm	3.00mm	OSG	**34ZW92**
20.00 mm	40.00 mm	150.00 mm	20.00 mm	3.00mm	OSG	**34ZW93**
5 Flutes						
¼ in	⅝ in	2 ½ in	¼ in	0.015 in	OSG	**34ZT89**
⅜ in	⅞ in	2 ½ in	⅜ in	0.06 in	OSG	**34ZT97**
½ in	1 ¼ in	3 ½ in	½ in	0.12 in	OSG	**34ZU06**
½ in	1 in	3 in	½ in	0.06 in	OSG	**34ZU01**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.12 in	OSG	**34ZU10**
1 in	1 ½ in	4 in	1 in	0.03 in	OSG	**34ZT85**
GMX-35 Finish						
4 Flutes						
3/16 in	⅝ in	2 in	3/16 in	0.015 in	—	**36PK21**
¼ in	½ in	2 in	¼ in	0.015 in	—	**36PJ73**
¼ in	1 ¼ in	3 in	¼ in	0.015 in	—	**36PJ71**
5/16 in	1 ½ in	4 in	5/16 in	0.015 in	—	**36PL34**
⅜ in	2 in	4 in	⅜ in	0.015 in	—	**36PL09**
½ in	⅝ in	2 ½ in	½ in	0.06 in	—	**36PJ36**
¾ in	1 ½ in	4 in	¾ in	0.06 in	—	**36PK47**
12.00 mm	32.00 mm	76.00 mm	12.00 mm	1.00mm	—	**36PH90**
5 Flutes						
⅜ in	⅝ in	2 in	⅜ in	0.015 in	—	**36PL04**
½ in	1 ¼ in	3 in	½ in	0.015 in	—	**36PJ24**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.03 in	—	**36PL62**
⅝ in	3 in	6 in	⅝ in	0.03 in	—	**36PL84**
¾ in	4 in	7 in	¾ in	0.03 in	—	**36PK78**
nACRo Finish						
5 Flutes						
¼ in	¾ in	2 ½ in	¼ in	0.02 in	Micro 100	**54EX18**
¼ in	1 ⅛ in	3 in	¼ in	0.02 in	Micro 100	**54EX72**
⅜ in	⅝ in	2 ½ in	⅜ in	0.02 in	Micro 100	**54EY03**
⅜ in	¾ in	4 in	⅜ in	0.02 in	Micro 100	**54EX62**
½ in	⅝ in	3 in	½ in	0.06 in	Micro 100	**54EY07**
½ in	1 in	3 in	½ in	0.03 in	Micro 100	**54EX24**
½ in	1 ¾ in	4 ½ in	½ in	⅛ in	Micro 100	**54EX84**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.06 in	Micro 100	**54EX32**
¾ in	1 ½ in	4 in	¾ in	0.03 in	Micro 100	**54EX38**
4.00 mm	11.00 mm	50.00 mm	4.00 mm	0.30mm	Micro 100	**54EX48**
6.00 mm	10.00 mm	57.00 mm	6.00 mm	0.50mm	Micro 100	**54EX90**
8.00 mm	19.00 mm	63.00 mm	8.00 mm	0.50mm	Micro 100	**54EX52**
10.00 mm	19.00 mm	72.00 mm	10.00 mm	0.50mm	Micro 100	**54EX94**
12.00 mm	26.00 mm	83.00 mm	12.00 mm	0.50mm	Micro 100	**54EX56**

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Corner Radius	Brand	Item No.
TiAIN Finish						
4 Flutes						
⅛ in	½ in	2 in	⅛ in	0.015 in	Widia Hanita	**48JA61**
3/16 in	⅝ in	2 in	3/16 in	0.02 in	OSG	**35CL99**
¼ in	⅜ in	2 in	¼ in	0.03 in	Widia Hanita	**48JC66**
¼ in	⅜ in	4 in	¼ in	0.015 in	OSG	**35CH58**
¼ in	¾ in	2 ½ in	¼ in	0.015 in	Widia Hanita	**48JA68**
¼ in	1 ¼ in	3 ¼ in	¼ in	0.015 in	Widia Hanita	**48JC18**
¼ in	1 ¾ in	4 in	¼ in	0.03 in	Widia Hanita	**48JC42**
⅜ in	⅞ in	2 ½ in	⅜ in	0.06 in	Widia Hanita	**48JA80**
⅜ in	1 in	2 ½ in	⅜ in	0.02 in	OSG	**35CM05**
⅜ in	2 ½ in	4 in	⅜ in	0.03 in	Widia Hanita	**48JC46**
½ in	⅝ in	4 in	½ in	0.12 in	Widia Hanita	**48JD97**
½ in	1 ¼ in	3 in	½ in	0.015 in	Widia Hanita	**48JA88**
½ in	1 in	3 in	½ in	0.06 in	OSG	**35CM09**
½ in	2 in	4 in	½ in	0.03 in	Widia Hanita	**48JC27**
½ in	3 in	5 in	½ in	0.03 in	Widia Hanita	**48JC50**
⅝ in	¾ in	4 ⅛ in	⅝ in	0.06 in	OSG	**35CH68**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.03 in	Widia Hanita	**48JA95**
⅝ in	1 ⅝ in	4 ⅛ in	⅝ in	0.06 in	Widia Hanita	**48JC97**
⅝ in	2 ¼ in	5 in	⅝ in	0.06 in	Widia Hanita	**48JC31**
¾ in	⅞ in	3 ½ in	¾ in	0.03 in	Widia Hanita	**48JC85**
¾ in	1 ½ in	4 in	¾ in	0.03 in	Widia Hanita	**48JC02**
¾ in	1 in	5 ¼ in	¾ in	0.12 in	Widia Hanita	**48JE07**
¾ in	2 ¼ in	5 in	¾ in	0.03 in	Widia Hanita	**48JC34**
¾ in	3 in	6 in	¾ in	0.03 in	Widia Hanita	**48JD01**
¾ in	4 in	6 ¼ in	¾ in	0.03 in	Widia Hanita	**48JC54**
¾ in	4 in	6 ¼ in	¾ in	0.06 in	Widia Hanita	**48JC55**
1 in	1 ½ in	4 in	1 in	0.09 in	OSG	**35CL96**
1 in	1 ⅝ in	5 ½ in	1 in	0.03 in	OSG	**35CH53**
1 in	2 ¼ in	5 in	1 in	0.06 in	Widia Hanita	**48JC39**
1 in	3 in	6 in	1 in	0.03 in	Widia Hanita	**48JC58**
4.00 mm	6.00 mm	70.00 mm	6.00 mm	1.00mm	OSG	**35CN02**
4.00 mm	11.00 mm	70.00 mm	6.00 mm	0.20mm	OSG	**35CM45**
5.00 mm	7.50 mm	80.00 mm	6.00 mm	1.00mm	OSG	**35CN05**
5.00 mm	13.00 mm	80.00 mm	6.00 mm	0.20mm	OSG	**35CM48**
6.00 mm	9.00 mm	60.00 mm	6.00 mm	0.50mm	OSG	**35CJ65**
6.00 mm	9.00 mm	60.00 mm	6.00 mm	1.00mm	OSG	**35CJ66**
6.00 mm	13.00 mm	80.00 mm	6.00 mm	2.00mm	OSG	**35CM55**
8.00 mm	12.00 mm	75.00 mm	8.00 mm	0.50mm	OSG	**35CJ67**
8.00 mm	12.00 mm	100.00 mm	8.00 mm	2.00mm	OSG	**35CN14**
8.00 mm	19.00 mm	100.00 mm	8.00 mm	2.00mm	OSG	**35CM59**
10.00 mm	15.00 mm	100.00 mm	10.00 mm	0.50mm	OSG	**35CN15**
10.00 mm	22.00 mm	100.00 mm	10.00 mm	3.00mm	OSG	**35CM64**
12.00 mm	18.00 mm	102.00 mm	12.00 mm	0.50mm	OSG	**35CJ70**
12.00 mm	18.00 mm	102.00 mm	12.00 mm	1.00mm	OSG	**35CJ71**
12.00 mm	26.00 mm	110.00 mm	12.00 mm	3.00mm	OSG	**35CM69**
5 Flutes						
3/16 in	7/16 in	2 in	3/16 in	0.015 in	OSG	**35CJ10**
3/16 in	¾ in	2 ½ in	3/16 in	0.01 in	Cleveland	**33GG27**
¼ in	½ in	2 in	¼ in	0.02 in	Cleveland	**33GG29**
¼ in	1 ⅛ in	3 in	¼ in	0.01 in	Cleveland	**33GG32**
¼ in	1 ⅝ in	3 in	¼ in	0.02 in	Cleveland	**33GG33**
⅜ in	⅜ in	2 in	⅜ in	0.03 in	Cleveland	**33GG41**
⅜ in	⅞ in	2 ½ in	⅜ in	0.02 in	Cleveland	**33GG45**
⅜ in	1 ⅛ in	3 in	⅜ in	0.02 in	Cleveland	**33GG47**
⅜ in	2 in	4 in	⅜ in	0.02 in	Cleveland	**33GG49**
½ in	⅝ in	2 ½ in	½ in	0.03 in	Cleveland	**33GG56**
½ in	1 ¼ in	3 in	½ in	0.02 in	Cleveland	**33GG63**
½ in	1 in	3 in	½ in	⅛ in	Cleveland	**33GG61**
½ in	2 in	4 in	½ in	⅛ in	Cleveland	**33GG72**
⅝ in	1 ¼ in	3 ½ in	⅝ in	0.03 in	Cleveland	**33GG76**
¾ in	1 in	3 in	¾ in	0.03 in	Cleveland	**33GG86**
¾ in	2 ¼ in	5 in	¾ in	0.06 in	Cleveland	**33GG94**
1 in	1 ½ in	4 in	1 in	0.03 in	Cleveland	**33GG98**
1 in	2 ¼ in	5 in	1 in	0.06 in	Cleveland	**33GH05**
1 in	3 in	6 in	1 in	⅛ in	Cleveland	**33GH12**
WXS Finish						
6 Flutes						
6.00 mm	13.00 mm	50.00 mm	6.00 mm	0.50mm	OSG	**35CC78**
8.00 mm	19.00 mm	60.00 mm	8.00 mm	0.50mm	OSG	**35CC79**
10.00 mm	22.00 mm	70.00 mm	10.00 mm	0.50mm	OSG	**35CC81**
10.00 mm	22.00 mm	70.00 mm	10.00 mm	0.50mm	OSG	**35CC80**
12.00 mm	26.00 mm	75.00 mm	12.00 mm	0.50mm	OSG	**35CC83**
12.00 mm	26.00 mm	75.00 mm	12.00 mm	0.50mm	OSG	**35CC82**
ZrN Finish						
2 Flutes						
⅛ in	½ in	1 ½ in	⅛ in	0.01 in	Micro 100	**16E916**
¼ in	¾ in	2 ½ in	¼ in	0.01 in	Micro 100	**16E932**
¼ in	¾ in	3 in	¼ in	0.015 in	—	**36PM30**
⅜ in	⅞ in	2 ½ in	⅜ in	0.01 in	Micro 100	**16E968**
½ in	1 ¼ in	3 ½ in	½ in	0.015 in	—	**36PM17**
3 Flutes						
¼ in	¾ in	2 ½ in	¼ in	0.03 in	Micro 100	**16E942**
5/16 in	13/16 in	2 ½ in	5/16 in	0.03 in	Micro 100	**16E960**
½ in	1 in	3 in	½ in	0.06 in	Micro 100	**16F007**
½ in	1 in	3 in	½ in	0.03 in	Micro 100	**16F005**
¾ in	1 ½ in	4 in	¾ in	0.09 in	—	**36PM55**

For more information on end mills, see page 2277.

See page 2292 for more information on corner-radius end mills.

WXL Finish
2 Flutes
35AW82

MICRO 100 super carbide tools

Miniature High-Performance Roughing/Finishing Carbide Corner-Radius End Mills

Milling Dia.	Length of Cut	Overall Length	Neck Length	Corner Radius	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
0.50 mm	0.30 mm	45.00 mm	1.50mm	0.05mm	OSG	**35CD18**
0.50 mm	0.30 mm	45.00 mm	2.50mm	0.10mm	OSG	**35CD30**
1/64 in	1/64 in	1 1/2 in	7/32 in	0.002 in	Micro 100	**54ET83**
1/64 in	1/32 in	1 1/2 in	5/16 in	0.01 in	Micro 100	**54EU06**
1/32 in	3/64 in	1 1/2 in	5/16 in	0.01 in	Micro 100	**54EU22**
1/32 in	3/64 in	1 1/2 in	11/32 in	0.01 in	Micro 100	**54EU38**
1/32 in	3/64 in	1 1/2 in	3/16 in	0.005 in	Micro 100	**54EU48**
1/32 in	3/64 in	1 1/2 in	7/16 in	0.01 in	Micro 100	**54EU54**
1/32 in	1/16 in	1 1/2 in	13/32 in	0.01 in	Micro 100	**54EU70**
3/64 in	1/16 in	1 1/2 in	15/32 in	0.01 in	Micro 100	**54EV03**
3/64 in	5/64 in	1 1/2 in	1/4 in	1/64 in	Micro 100	**54EV09**
3/64 in	5/64 in	2 in	21/32 in	0.005 in	Micro 100	**54EV29**
1/16 in	7/64 in	1 1/2 in	9/32 in	1/64 in	Micro 100	**54EV69**
1/16 in	7/64 in	2 in	25/32 in	0.005 in	Micro 100	**54EV89**
5/64 in	1/8 in	1 1/2 in	1/8 in	0.005 in	Micro 100	**54EW32**
5/64 in	1/8 in	2 in	3/4 in	1/64 in	Micro 100	**54EW54**
3/32 in	1/8 in	1 1/2 in	1/4 in	0.01 in	Micro 100	**54EW64**
3/32 in	1/8 in	2 in	5/8 in	0.005 in	Micro 100	**54EW80**
1/8 in	1/8 in	2 in	1/4 in	1/64 in	Micro 100	**54EX09**
1.00 mm	0.60 mm	45.00 mm	5.00mm	0.30mm	OSG	**35CD33**
1.50 mm	0.90 mm	50.00 mm	7.50mm	0.30mm	OSG	**35CD36**
2.00 mm	1.20 mm	50.00 mm	10.00mm	0.20mm	OSG	**35CD38**
3.00 mm	1.80 mm	50.00 mm	6.00mm	0.30mm	OSG	**35CD27**
EXO Finish						
3 Flutes						
2.00 mm	4.00 mm	60.00 mm	6.00mm	0.50mm	OSG	**34ZW84**
3.00 mm	6.00 mm	70.00 mm	9.00mm	0.80mm	OSG	**34ZW85**
nACRo Finish						
2 Flutes						
1/64 in	1/64 in	1 1/2 in	7/32 in	0.002 in	Micro 100	**54ET84**
1/64 in	1/32 in	1 1/2 in	3/16 in	0.003 in	Micro 100	**54ET90**
1/64 in	1/32 in	1 1/2 in	1/8 in	0.01 in	Micro 100	**54EU03**
1/32 in	3/64 in	1 1/2 in	5/16 in	0.01 in	Micro 100	**54EU23**
1/32 in	3/64 in	1 1/2 in	11/32 in	0.01 in	Micro 100	**54EU39**
1/32 in	3/64 in	1 1/2 in	3/16 in	0.01 in	Micro 100	**54EU51**
1/32 in	1/16 in	1 1/2 in	13/32 in	0.01 in	Micro 100	**54EU71**
3/64 in	1/16 in	1 1/2 in	15/32 in	0.01 in	Micro 100	**54EV04**
3/64 in	5/64 in	1 1/2 in	1/4 in	0.01 in	Micro 100	**54EV26**
3/64 in	5/64 in	2 in	21/32 in	1/64 in	Micro 100	**54EV34**
1/16 in	7/64 in	1 1/2 in	9/32 in	0.005 in	Micro 100	**54EV66**
3/32 in	1/8 in	2 in	5/8 in	0.005 in	Micro 100	**54EW81**
1/8 in	1/8 in	2 in	7/8 in	0.005 in	Micro 100	**54EW87**
TiAlN Finish						
4 Flutes						
3.00 mm	4.50 mm	60.00 mm	14.00mm	0.20mm	OSG	**35CM97**
WXL Finish						
2 Flutes						
0.60 mm	0.90 mm	50.00 mm	2.00mm	0.10mm	OSG	**35AW82**
0.80 mm	1.20 mm	50.00 mm	2.60mm	0.10mm	OSG	**35AW83**
1.40 mm	2.10 mm	50.00 mm	3.70mm	0.10mm	OSG	**35AW86**
1.50 mm	2.30 mm	50.00 mm	4.00mm	0.10mm	OSG	**35AW87**
2.00 mm	3.00 mm	50.00 mm	5.20mm	0.10mm	OSG	**35AW90**
2.50 mm	3.70 mm	50.00 mm	5.20mm	0.10mm	OSG	**35AW91**
WXS Finish						
2 Flutes						
0.50 mm	0.40 mm	50.00 mm	5.00mm	0.05mm	OSG	**35AY89**
0.60 mm	0.48 mm	50.00 mm	4.00mm	0.10mm	OSG	**35AY97**
0.80 mm	0.65 mm	50.00 mm	4.00mm	0.20mm	OSG	**35AY99**
1.00 mm	0.80 mm	50.00 mm	8.00mm	0.30mm	OSG	**35AZ22**
1.20 mm	1.00 mm	50.00 mm	10.00mm	0.20mm	OSG	**35AZ27**
1.50 mm	1.20 mm	50.00 mm	8.00mm	0.30mm	OSG	**35AZ33**
2.00 mm	1.60 mm	50.00 mm	10.00mm	0.30mm	OSG	**35AZ48**
2.00 mm	1.60 mm	70.00 mm	25.00mm	0.50mm	OSG	**35AZ58**
2.50 mm	2.20 mm	50.00 mm	10.00mm	0.20mm	OSG	**35AZ59**
3.00 mm	2.50 mm	60.00 mm	12.00mm	0.20mm	OSG	**35AZ66**
3.00 mm	2.50 mm	60.00 mm	16.00mm	0.20mm	OSG	**35AZ67**
3 Flutes						
2.00 mm	0.80 mm	60.00 mm	5.00mm	0.50mm	OSG	**35AY77**
3.00 mm	4.50 mm	80.00 mm	20.00mm	0.80mm	OSG	**34ZW24**
4 Flutes						
0.80 mm	50.00 mm	50.00 mm	4.00mm	0.10mm	OSG	**34ZV53**
1.00 mm	50.00 mm	50.00 mm	10.00mm	0.10mm	OSG	**34ZV59**
1.50 mm	50.00 mm	50.00 mm	6.00mm	0.20mm	OSG	**34ZV72**
2.00 mm	50.00 mm	50.00 mm	8.00mm	0.30mm	OSG	**34ZV78**
3.00 mm	5.00 mm	60.00 mm	9.00mm	0.50mm	OSG	**35AY46**

TiAlN
4 Flutes
48JC99

WIDIA HANITA

High-Performance Roughing/Finishing Carbide Corner-Chamfer End Mills

High-performance roughing/finishing carbide corner-chamfer end mills are used in production milling. They each have a square nose with slightly angled corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. They create a flat-bottomed groove with slightly chamfered inside corners in milling applications that do not require a specific radius size. Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Chamfer Width	Item No.
TiAlN					
4 Flutes					
1/8 in	1/2 in	1 1/2 in	1/8 in	0.0100 in	**30M178**
	1/8 in	1 1/2 in	1/8 in	0.0100 in	**30M179**
3/16 in	5/8 in	2 1/4 in	3/16 in	0.0100 in	**30M181**
	5/16 in	2 in	3/16 in	0.0100 in	**30M180**
1/4 in	3/4 in	2 1/2 in	1/4 in	0.0160 in	**30M183**
	3/8 in	2 in	1/4 in	0.0160 in	**30M182**
3/8 in	1/2 in	2 in	3/8 in	0.0200 in	**30M186**
	7/8 in	2 1/2 in	3/8 in	0.0200 in	**30M187**
1/2 in	1 1/2 in	4 in	1/2 in	0.0200 in	**30M193**
	1 in	3 in	1/2 in	0.0200 in	**30M191**
	5/8 in	2 1/2 in	1/2 in	0.0200 in	**30M190**
5/8 in	1 1/4 in	3 1/2 in	5/8 in	0.0200 in	**30M195**
	3/4 in	3 in	5/8 in	0.0200 in	**30M194**
3/4 in	1 1/2 in	4 in	3/4 in	0.0200 in	**30M198**
	1 5/8 in	4 in	3/4 in	0.0200 in	**30M199**
	3 in	6 in	3/4 in	0.0200 in	**48JC99**
	7/8 in	3 1/2 in	3/4 in	0.0200 in	**30M197**
1 in	1 1/2 in	4 in	1 in	0.0200 in	**30M175**
	2 in	5 in	1 in	0.0200 in	**30M176**

AlTiN
4 Flutes
45RM91

WIDIA HANITA

General Purpose Finishing Carbide Corner-Chamfer End Mills

General purpose finishing carbide corner-chamfer end mills are intended for milling a wide variety of common materials. They each have a square nose with slightly angled corners that help distribute cutting forces evenly to prevent damage to the end mill and extend its life. They create a flat-bottomed groove with slightly chamfered inside corners in milling applications that do not require a specific radius size. Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Chamfer Width	Brand	Item No.
AlTiN						
3 Flutes						
1/8 in	1/4 in	2 1/2 in	1/8 in	0.0030 in	—	**55HJ40**
	3/8 in	1 1/2 in	1/8 in	0.0030 in	—	**55HJ38**
	3/16 in	1 1/2 in	1/8 in	0.0030 in	—	**55HJ36**
4 Flutes						
1/8 in	1/4 in	2 1/2 in	1/8 in	0.0030 in	—	**55HJ89**
	3/8 in	1 1/2 in	1/8 in	0.0030 in	—	**55HJ85**
	3/16 in	1 1/2 in	1/8 in	0.0030 in	—	**55HJ83**
3/8 in	1/2 in	2 in	3/8 in	0.0200 in	Widia Hanita	**45RM91**
1/2 in	1 1/2 in	4 in	1/2 in	0.0200 in	Widia Hanita	**45RM92**
	1 in	3 in	1/2 in	0.0200 in	Widia Hanita	**45RM86**
7 Flutes						
10.00 mm	50.00 mm	100.00 mm	10.00 mm	0.50 mm	Widia Hanita	**48KA58**
12.00 mm	26.00 mm	83.00 mm	12.00 mm	0.50 mm	Widia Hanita	**48KA74**
	60.00 mm	125.00 mm	12.00 mm	0.50 mm	Widia Hanita	**48KA60**
16.00 mm	32.00 mm	100.00 mm	16.00 mm	0.50 mm	Widia Hanita	**48KA76**
	80.00 mm	141.00 mm	16.00 mm	0.50 mm	Widia Hanita	**48KA64**
20.00 mm	60.00 mm	125.00 mm	20.00 mm	0.50 mm	Widia Hanita	**48KA56**
	100.00 mm	166.00 mm	20.00 mm	0.50 mm	Widia Hanita	**48KA68**

AlTin Finish
3 Flutes
16G087

MICRO 100 super carbide tools

Double-End Straight-Shank Corner-Rounding End Mills

Double-end corner-rounding end mills have a straight shank with concave cutting edges on both ends. They create rounded outside edges on a workpiece in milling tasks and can accomplish more milling tasks than single-end end mills before they need to be replaced.

Milling Dia.	Corner Radius	Overall Length	Shank Dia.	Item No.
AlTin Finish				
3 flutes				
3/64 in	0.0100 in	2 in	1/8 in	**16G027**
3/64 in	1/8 in	2 1/2 in	5/16 in	**16G071**
3/64 in	1/16 in	2 in	3/16 in	**16G053**
3/64 in	1/16 in	2 1/2 in	1/4 in	**16G055**
3/64 in	1/16 in	2 1/2 in	1/4 in	**16G057**
3/64 in	1/32 in	2 in	1/8 in	**16G037**
3/64 in	1/32 in	2 in	3/16 in	**16G041**
3/64 in	1/32 in	2 in	3/16 in	**16G039**
3/64 in	1/32 in	2 in	3/16 in	**16G043**
3/64 in	1/64 in	2 in	1/8 in	**16G031**
3/64 in	1/64 in	2 in	1/8 in	**16G035**
3/64 in	1/64 in	2 in	1/8 in	**16G033**
3/64 in	3/32 in	2 1/2 in	1/4 in	**16G065**
3/64 in	3/32 in	2 1/2 in	5/16 in	**16G067**
3/64 in	3/64 in	2 in	3/16 in	**16G051**
3/64 in	3/64 in	2 in	3/16 in	**16G045**
3/64 in	3/64 in	2 in	3/16 in	**16G047**
3/64 in	3/64 in	2 in	3/16 in	**16G049**
3/64 in	5/32 in	2 1/2 in	3/8 in	**16G075**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G059**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G061**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G063**
3/64 in	7/64 in	2 1/2 in	5/16 in	**16G069**
3/64 in	9/64 in	2 1/2 in	3/8 in	**16G073**
7/64 in	13/64 in	3 1/2 in	5/8 in	**16G081**
7/64 in	13/64 in	3 1/2 in	5/8 in	**16G083**
7/64 in	15/64 in	3 1/2 in	5/8 in	**16G085**
7/64 in	1/4 in	3 1/2 in	5/8 in	**16G087**
7/64 in	3/8 in	4 in	1 in	**16G023**
7/64 in	3/16 in	3 in	1/2 in	**16G079**
7/64 in	5/16 in	4 in	3/4 in	**16G093**
7/64 in	5/32 in	3 in	1/2 in	**16G077**
7/64 in	9/32 in	4 in	1 in	**16G025**
Bright (Uncoated) Finish				
3 flutes				
3/64 in	0.0100 in	2 in	1/8 in	**16G026**
3/64 in	1/8 in	2 1/2 in	5/16 in	**16G070**
3/64 in	1/16 in	2 in	3/16 in	**16G052**
3/64 in	1/16 in	2 1/2 in	1/4 in	**16G054**
3/64 in	1/16 in	2 1/2 in	1/4 in	**16G056**
3/64 in	1/32 in	2 in	1/8 in	**16G036**
3/64 in	1/32 in	2 in	3/16 in	**16G040**
3/64 in	1/32 in	2 in	3/16 in	**16G038**
3/64 in	1/32 in	2 in	3/16 in	**16G042**
3/64 in	1/64 in	2 in	1/8 in	**16G032**
3/64 in	1/64 in	2 in	1/8 in	**16G028**
3/64 in	1/64 in	2 in	1/8 in	**16G030**
3/64 in	1/64 in	2 in	1/8 in	**16G034**
3/64 in	3/32 in	2 1/2 in	1/4 in	**16G064**
3/64 in	3/32 in	2 1/2 in	5/16 in	**16G066**
3/64 in	3/64 in	2 in	3/16 in	**16G050**
3/64 in	3/64 in	2 in	3/16 in	**16G044**
3/64 in	3/64 in	2 in	3/16 in	**16G046**
3/64 in	3/64 in	2 in	3/16 in	**16G048**
3/64 in	5/32 in	2 1/2 in	3/8 in	**16G074**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G062**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G058**
3/64 in	5/64 in	2 1/2 in	1/4 in	**16G060**
3/64 in	7/64 in	2 1/2 in	5/16 in	**16G068**
3/64 in	9/64 in	2 1/2 in	3/8 in	**16G072**
7/64 in	13/64 in	3 1/2 in	5/8 in	**16G080**
7/64 in	13/64 in	3 1/2 in	5/8 in	**16G082**
7/64 in	15/64 in	3 1/2 in	5/8 in	**16G084**
7/64 in	1/4 in	3 1/2 in	5/8 in	**16G086**
7/64 in	3/8 in	4 in	1 in	**16G022**
7/64 in	3/16 in	3 in	1/2 in	**16G078**
7/64 in	5/16 in	4 in	3/4 in	**16G092**
7/64 in	5/32 in	3 in	1/2 in	**16G076**
7/64 in	9/32 in	4 in	3/4 in	**16G088**
7/64 in	9/32 in	4 in	1 in	**16G024**

Carbide Drill Mills

MICRO 100 WIDIA HANITA

Drill mills have a nose with a pointed tip and can drill holes or create angled features in a piece of stock. They are used for slotting, side profiling, chamfering, spotting, countersinking, and cutting grooves in milling tasks.

Bright (Uncoated) Finish
2 Flutes
19LJ56

No. of Flutes	Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
82 °						
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	55HF88
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	55HF89
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	55HF90
2 Flutes	1/2 in	1 in	3 in	1/2 in	—	55HF92
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	55HF94
90 °						
2 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	Micro 100	16T572
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	Micro 100	16T576
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	Micro 100	16T580
2 Flutes	5/16 in	0.813 in	2 1/2 in	5/16 in	Micro 100	16T584
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	Micro 100	16T588
2 Flutes	1/2 in	1 in	3 in	1/2 in	Micro 100	16T596
2 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	Micro 100	16T601
2 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	Micro 100	16T605
2 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T611
2 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T619
2 Flutes	5.000 mm	13.00 mm	57.0 mm	6.000 mm	Micro 100	16T627
2 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T635
2 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T643
2 Flutes	10.000 mm	25.00 mm	72.0 mm	10.000 mm	Micro 100	16T651
2 Flutes	12.000 mm	30.00 mm	83.0 mm	12.000 mm	Micro 100	16T659
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	Micro 100	16T574
4 Flutes	3/16 in	5/8 in	2 in	3/16 in	Micro 100	16T578
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	Micro 100	16T582
4 Flutes	5/16 in	0.813 in	2 1/2 in	5/16 in	Micro 100	16T586
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	Micro 100	16T590
4 Flutes	1/2 in	1 in	3 in	1/2 in	Micro 100	16T598
4 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	Micro 100	16T603
4 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	Micro 100	16T607
4 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T615
4 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T623
4 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T639
4 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T647
4 Flutes	10.000 mm	25.00 mm	72.0 mm	10.000 mm	Micro 100	16T655
120 °						
2 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T609
2 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T617
2 Flutes	5.000 mm	13.00 mm	57.0 mm	6.000 mm	Micro 100	16T625
2 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T633
2 Flutes	12.000 mm	30.00 mm	83.0 mm	12.000 mm	Micro 100	16T657
4 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T613
4 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T621
4 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T645
Bright (Uncoated) Finish						
60 °						
2 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	19LJ56
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	19LJ58
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ60
2 Flutes	5/16 in	13/16 in	2 1/2 in	5/16 in	—	19LJ62
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LJ64
2 Flutes	7/16 in	1 in	2 3/4 in	7/16 in	—	19LJ66
2 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LJ68
2 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	—	19LJ70
2 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	—	19LJ72
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	19LJ74
4 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	19LJ76
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ78
4 Flutes	5/16 in	13/16 in	2 1/2 in	5/16 in	—	19LJ80
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LJ82
4 Flutes	7/16 in	1 in	2 3/4 in	7/16 in	—	19LJ84
4 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LJ86
4 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	—	19LJ88
4 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	—	19LJ90
82 °						
2 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	19LJ98
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	55HF87
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ99
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LK01
2 Flutes	1/2 in	1 in	3 in	1/2 in	—	55HF91
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	55HF93
4 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	19LK02
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LK04
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LK06
4 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LK08
90 °						
2 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	Micro 100	16T571
2 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	19LJ19
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	Micro 100	16T575
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	Widia Hanita	2NHF7
2 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	19LJ20
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	Widia Hanita	2NHF8
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	Micro 100	16T579
2 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ21
2 Flutes	5/16 in	0.813 in	2 1/2 in	5/16 in	Micro 100	16T583
2 Flutes	5/16 in	13/16 in	2 1/2 in	5/16 in	—	19LJ22
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	Widia Hanita	2NHG1
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	Micro 100	16T587
2 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LJ23
2 Flutes	7/16 in	1 in	2 3/4 in	7/16 in	—	19LJ24
2 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LJ25
2 Flutes	1/2 in	1 in	3 in	1/2 in	Micro 100	16T595
2 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	—	19LJ26
2 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	Micro 100	16T604
2 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	—	19LJ27
2 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T610
2 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T618
2 Flutes	5.000 mm	13.00 mm	57.0 mm	6.000 mm	Micro 100	16T626
2 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T634
2 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T642
2 Flutes	10.000 mm	25.00 mm	72.0 mm	10.000 mm	Micro 100	16T650
2 Flutes	12.000 mm	30.00 mm	83.0 mm	12.000 mm	Micro 100	16T658
4 Flutes	3/32 in	3/8 in	1 1/2 in	1/8 in	—	19LJ37
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	—	19LJ38
4 Flutes	1/8 in	1/2 in	1 1/2 in	1/8 in	Micro 100	16T573
4 Flutes	3/16 in	5/8 in	2 in	3/16 in	Micro 100	16T577
4 Flutes	3/16 in	5/8 in	2 in	3/16 in	—	19LJ39
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	Micro 100	16T581
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ40
4 Flutes	5/16 in	0.813 in	2 1/2 in	5/16 in	Micro 100	16T585
4 Flutes	5/16 in	13/16 in	2 1/2 in	5/16 in	—	19LJ41
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LJ42
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	Micro 100	16T589
4 Flutes	7/16 in	1 in	2 3/4 in	7/16 in	—	19LJ43
4 Flutes	1/2 in	1 in	3 in	1/2 in	Micro 100	16T597
4 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LJ44
4 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	Micro 100	16T602
4 Flutes	5/8 in	1 1/4 in	3 1/2 in	5/8 in	—	19LJ45
4 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	Micro 100	16T606
4 Flutes	3/4 in	1 1/2 in	4 in	3/4 in	—	19LJ46
4 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T614
4 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T622
4 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T638
4 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T646
4 Flutes	10.000 mm	25.00 mm	72.0 mm	10.000 mm	Micro 100	16T654
4 Flutes	12.000 mm	30.00 mm	83.0 mm	12.000 mm	Micro 100	16T662
120 °						
2 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T608
2 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T616
2 Flutes	5.000 mm	13.00 mm	57.0 mm	6.000 mm	Micro 100	16T624
2 Flutes	6.000 mm	16.00 mm	57.0 mm	6.000 mm	Micro 100	16T632
2 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T640
2 Flutes	10.000 mm	25.00 mm	72.0 mm	10.000 mm	Micro 100	16T648
2 Flutes	12.000 mm	30.00 mm	83.0 mm	12.000 mm	Micro 100	16T656
4 Flutes	1/4 in	3/4 in	2 1/2 in	1/4 in	—	19LJ92
4 Flutes	3/8 in	1 in	2 1/2 in	3/8 in	—	19LJ94
4 Flutes	1/2 in	1 in	3 in	1/2 in	—	19LJ96
4 Flutes	3.000 mm	8.00 mm	38.0 mm	3.000 mm	Micro 100	16T612
4 Flutes	4.000 mm	11.00 mm	50.0 mm	4.000 mm	Micro 100	16T620
4 Flutes	8.000 mm	22.00 mm	63.0 mm	8.000 mm	Micro 100	16T644

Keyway End Mills

YG CLEVELAND

Keyway end mills make slots in parts so that key stock can be inserted into the slots when mating other components with the parts. These end mills are typically undersized, which means they create an undersized slot to ensure a snug, secure fit when key stock is inserted into the slot.

TiN Finish
2 Flutes
55GG63

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	3/8 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GE44
3/16 in	7/16 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GF73
1/4 in	1/2 in	2 7/16 in	3/8 in	30 °	Cleveland	438N58
3/8 in	9/16 in	2 1/2 in	3/8 in	0 °	Cleveland	438U19
3/8 in	9/16 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GJ07
1/2 in	1 in	3 in	1/2 in	15 °	YG-1 Tool Company	55GK31
5/8 in	13/16 in	3 7/16 in	5/8 in	15 °	YG-1 Tool Company	55GL14
5/8 in	1 5/16 in	3 3/4 in	5/8 in	0 °	Cleveland	438U21
3/4 in	1 5/16 in	3 7/8 in	3/4 in	0 °	Cleveland	438U22
3/4 in	1 5/16 in	3 9/16 in	3/4 in	15 °	YG-1 Tool Company	55GM13
1 in	1 5/8 in	4 1/2 in	1 in	0 °	Cleveland	438U24
1 1/2 in	1 5/8 in	4 1/2 in	1 1/4 in	30 °	Cleveland	438N60
TiCN Finish						
2 Flutes						
1/4 in	1/2 in	2 7/16 in	3/8 in	30 °	Cleveland	438F90
1 1/2 in	1 5/8 in	4 1/2 in	1 1/4 in	30 °	Cleveland	438G06
1 1/4 in	1 5/8 in	4 1/2 in	1 1/4 in	30 °	Cleveland	438G04
1 1/8 in	1 5/8 in	4 1/2 in	1 in	30 °	Cleveland	438G03
1 3/8 in	1 5/8 in	4 1/2 in	1 in	30 °	Cleveland	438G05
TiN Finish						
2 Flutes						
1/4 in	1/2 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GG63
1/4 in	1/2 in	2 7/16 in	3/8 in	30 °	Cleveland	438F74
5/16 in	9/16 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GH44
3/8 in	9/16 in	2 5/16 in	3/8 in	15 °	YG-1 Tool Company	55GJ08
1/2 in	1 in	3 in	1/2 in	15 °	YG-1 Tool Company	55GK32
5/8 in	13/16 in	3 7/16 in	5/8 in	15 °	YG-1 Tool Company	55GL15
3/4 in	1 5/16 in	3 7/8 in	3/4 in	30 °	Cleveland	438F81
7/8 in	1 1/2 in	4 1/8 in	7/8 in	30 °	Cleveland	438F83
1 1/2 in	1 5/8 in	4 1/2 in	1 1/4 in	30 °	Cleveland	438F88
1 1/8 in	1 5/8 in	4 1/2 in	1 in	30 °	Cleveland	438F85

For more information on end mills, see page 2277.

Bright (Uncoated) Finish
4 Flutes
45XN34

CLEVELAND

Double-End Straight-Shank Chamfer Mills

Double-end chamfer mills have a straight shank with angled cutting edges on both ends and can accomplish more milling tasks than single-end chamfer mills before they need to be replaced. They are used to create chamfered or beveled edges, to debur edges, and to spot and countersink holes in one step prior to drilling.

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
⅛ in	60 °	—	1 ½ in	⅛ in	—	**55HF95**
	90 °	—	1 ½ in	⅛ in	—	**55HG03**
3/16 in	60 °	—	2 in	3/16 in	—	**55HF96**
	90 °	—	2 in	3/16 in	—	**55HG04**
¼ in	60 °	—	2 ⅜ in	¼ in	—	**55HF97**
	90 °	—	2 ½ in	¼ in	—	**55HG05**
⅜ in	60 °	—	2 ½ in	⅜ in	—	**55HF98**
	90 °	—	2 ½ in	⅜ in	—	**55HG01**
	90 °	—	2 ½ in	⅜ in	—	**55HG06**
½ in	60 °	—	3 in	½ in	—	**55HF99**
	90 °	—	3 in	½ in	—	**55HG07**
	90 °	—	3 in	½ in	—	**55HG02**
2 Flutes						
⅛ in	90 °	1/16 in	1 ½ in	⅛ in	—	**45XN27**
2 Flutes						
3/16 in	90 °	3/32 in	2 in	3/16 in	—	**45XN29**
¼ in	90 °	⅛ in	2 ½ in	¼ in	—	**45XN31**

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
Bright (Uncoated) Finish						
2 Flutes						
⅛ in	60 °	7/64 in	1 ½ in	⅛ in	—	**45XN21**
	90 °	1/16 in	1 ½ in	⅛ in	—	**45XN26**
	90 °	1 ½ in	1 ½ in	⅛ in	Cleveland	**33FZ14**
3/16 in	60 °	5/32 in	2 in	3/16 in	—	**45XN22**
	90 °	3/32 in	2 in	3/16 in	—	**45XN28**
	90 °	2 in	2 in	3/16 in	Cleveland	**33FZ15**
¼ in	60 °	7/32 in	2 ½ in	¼ in	—	**45XN23**
	90 °	⅛ in	2 ½ in	¼ in	—	**45XN30**
	90 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33FZ16**
⅜ in	60 °	⅝ in	2 ½ in	⅜ in	—	**45XN24**
	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN32**
	90 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33FZ17**
½ in	60 °	⅜ in	3 in	½ in	—	**45XN25**
	90 °	¼ in	3 in	½ in	—	**45XN33**
	90 °	3 in	3 in	½ in	Cleveland	**33FZ18**
¾ in	90 °	¾ in	4 in	¾ in	Cleveland	**33FZ19**
4 Flutes						
⅛ in	90 °	1/16 in	1 ½ in	⅛ in	—	**45XN34**
3/16 in	90 °	3/32 in	2 in	3/16 in	—	**45XN35**
¼ in	90 °	⅛ in	2 ½ in	¼ in	—	**45XN36**
	90 °	2 ½ in	2 ½ in	¼ in	Cleveland	**32ZX64**
⅜ in	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN37**
	90 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**32ZX65**
½ in	90 °	¼ in	3 in	½ in	—	**45XN38**
	90 °	3 in	3 in	½ in	Cleveland	**32ZX66**
¾ in	90 °	4 in	4 in	¾ in	Cleveland	**32ZX67**

AlTin Finish
2 Flute
45XM49

CLEVELAND

Single-End Straight-Shank Chamfer Mills

Single-end chamfer mills have a straight shank with angled cutting edges on one end and are less fragile than double-end chamfer mills. They are used to create chamfered or beveled edges, to debur edges, and to spot and countersink holes in one step prior to drilling.

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
AlTin Finish						
2 Flutes						
⅛ in	60 °	7/64 in	1 ½ in	⅛ in	—	**45XM49**
	82 °	1/16 in	1 ½ in	⅛ in	—	**45XM73**
	90 °	1/16 in	1 ½ in	⅛ in	—	**45XM97**
3/16 in	60 °	5/32 in	2 in	3/16 in	—	**45XM51**
	82 °	3/32 in	2 in	3/16 in	—	**45XM75**
	90 °	3/32 in	2 in	3/16 in	—	**45XM99**
¼ in	60 °	7/32 in	2 ½ in	¼ in	—	**45XM53**
	82 °	⅛ in	2 ½ in	¼ in	—	**45XM77**
	90 °	⅛ in	2 ½ in	¼ in	—	**45XN02**
⅜ in	60 °	⅝ in	2 ½ in	⅜ in	—	**45XM55**
	82 °	3/16 in	2 ½ in	⅜ in	—	**45XM79**
	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN04**
½ in	60 °	⅜ in	3 in	½ in	—	**45XM57**
	82 °	¼ in	3 in	½ in	—	**45XM81**
	90 °	¼ in	3 in	½ in	—	**45XN06**
¾ in	60 °	⅝ in	3 in	¾ in	—	**45XM59**
	82 °	⅜ in	3 in	¾ in	—	**45XM83**
	90 °	⅜ in	3 in	¾ in	—	**45XN08**
1 in	90 °	1 ½ in	4 in	1 in	—	**54PY71**
4 Flutes						
⅛ in	60 °	7/64 in	1 ½ in	⅛ in	—	**45XM61**
	82 °	1/16 in	1 ½ in	⅛ in	—	**45XM85**
	90 °	1/16 in	1 ½ in	⅛ in	—	**45XN10**
3/16 in	60 °	5/32 in	2 in	3/16 in	—	**45XM63**
	82 °	3/32 in	2 in	3/16 in	—	**45XM87**
	90 °	3/32 in	2 in	3/16 in	—	**45XN12**
¼ in	60 °	7/32 in	2 ½ in	¼ in	—	**45XM65**
	82 °	⅛ in	2 ½ in	¼ in	—	**45XM89**
	90 °	⅛ in	2 ½ in	¼ in	—	**45XN14**
	90 °	¾ in	2 ½ in	¼ in	—	**54PZ04**
⅜ in	60 °	⅝ in	2 ½ in	⅜ in	—	**45XM67**
	82 °	3/16 in	2 ½ in	⅜ in	—	**45XM91**
	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN16**
½ in	60 °	⅜ in	3 in	½ in	—	**45XM69**
	82 °	¼ in	3 in	½ in	—	**45XM93**
	90 °	¼ in	3 in	½ in	—	**45XN18**
¾ in	60 °	⅝ in	3 in	¾ in	—	**45XM71**
	82 °	⅜ in	3 in	¾ in	—	**45XM95**
	90 °	⅜ in	3 in	¾ in	—	**45XN20**
	90 °	1 ½ in	4 in	¾ in	—	**54PZ14**
Bright (Uncoated) Finish						
2 Flutes						
⅛ in	60 °	7/64 in	1 ½ in	⅛ in	—	**45XM48**
	60 °	1 ½ in	1 ½ in	⅛ in	Cleveland	**33FY97**
	82 °	1/16 in	1 ½ in	⅛ in	—	**45XM72**
	82 °	1 ½ in	1 ½ in	⅛ in	Cleveland	**33FY98**
	90 °	1/16 in	1 ½ in	⅛ in	—	**45XM96**
	90 °	1 ½ in	1 ½ in	⅛ in	Cleveland	**33FY99**

Milling Dia.	Included Angle	Length of Cut	Overall Length	Shank Dia.	Brand	Item No.
3/16 in	60 °	5/32 in	2 in	3/16 in	—	**45XM50**
	82 °	3/32 in	2 in	3/16 in	—	**45XM74**
	90 °	3/32 in	2 in	3/16 in	—	**45XM98**
	90 °	2 in	2 in	3/16 in	Cleveland	**33FZ01**
¼ in	60 °	7/32 in	2 ½ in	¼ in	—	**45XM52**
	60 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33FZ02**
	82 °	⅛ in	2 ½ in	¼ in	—	**45XM76**
	82 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33FZ03**
	90 °	⅛ in	2 ½ in	¼ in	—	**45XN01**
	90 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33FZ04**
⅜ in	60 °	⅝ in	2 ½ in	⅜ in	—	**45XM54**
	60 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33FZ05**
	82 °	3/16 in	2 ½ in	⅜ in	—	**45XM78**
	82 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33FZ06**
	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN03**
	90 °	⅝ in	2 in	⅜ in	—	**54PY40**
	90 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33FZ07**
	120 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33FZ13**
½ in	60 °	⅜ in	3 in	½ in	—	**45XM56**
	60 °	3 in	3 in	½ in	Cleveland	**33FZ08**
	82 °	¼ in	3 in	½ in	—	**45XM80**
	82 °	3 in	3 in	½ in	Cleveland	**33FZ09**
	90 °	¼ in	3 in	½ in	—	**45XN05**
	90 °	3 in	3 in	½ in	Cleveland	**33FZ10**
	120 °	3 in	3 in	½ in	Cleveland	**33FZ11**
¾ in	60 °	⅝ in	3 in	¾ in	—	**45XM58**
	82 °	⅜ in	3 in	¾ in	—	**45XM82**
	90 °	⅜ in	3 in	¾ in	—	**45XN07**
	90 °	1 ½ in	4 in	¾ in	—	**54PY68**
	90 °	4 in	4 in	¾ in	Cleveland	**33FZ12**
4 Flutes						
⅛ in	60 °	7/64 in	1 ½ in	⅛ in	—	**45XM60**
	82 °	1/16 in	1 ½ in	⅛ in	—	**45XM84**
	90 °	1/16 in	1 ½ in	⅛ in	—	**45XN09**
3/16 in	60 °	5/32 in	2 in	3/16 in	—	**45XM62**
	82 °	3/32 in	2 in	3/16 in	—	**45XM86**
	90 °	3/32 in	2 in	3/16 in	—	**45XN11**
¼ in	60 °	7/32 in	2 ½ in	¼ in	—	**45XM64**
	60 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33GC63**
	82 °	⅛ in	2 ½ in	¼ in	—	**45XM88**
	82 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33GC64**
	90 °	⅛ in	2 ½ in	¼ in	—	**45XN13**
	90 °	2 ½ in	2 ½ in	¼ in	Cleveland	**33GC65**
⅜ in	60 °	⅝ in	2 ½ in	⅜ in	—	**45XM66**
	60 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33GC66**
	82 °	3/16 in	2 ½ in	⅜ in	—	**45XM90**
	82 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33GC67**
	90 °	3/16 in	2 ½ in	⅜ in	—	**45XN15**
	90 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33GC68**
	120 °	2 ½ in	2 ½ in	⅜ in	Cleveland	**33GC62**
½ in	60 °	⅜ in	3 in	½ in	—	**45XM68**
	60 °	3 in	3 in	½ in	Cleveland	**33GC69**
	82 °	¼ in	3 in	½ in	—	**45XM92**
	82 °	3 in	3 in	½ in	Cleveland	**33GC70**
	90 °	¼ in	3 in	½ in	—	**45XN17**
	90 °	⅝ in	2 ½ in	½ in	—	**54PY86**
	90 °	1 in	3 in	½ in	—	**54PZ09**
	90 °	3 in	3 in	½ in	Cleveland	**33GC71**
	120 °	2 ½ in	3 in	½ in	Cleveland	**33GC72**
¾ in	60 °	⅝ in	3 in	¾ in	—	**45XM70**
	82 °	⅜ in	3 in	¾ in	—	**45XM94**
	90 °	⅜ in	3 in	¾ in	—	**45XN19**
	90 °	1 in	4 in	¾ in	—	**54PZ13**
	90 °	2 ½ in	4 in	¾ in	Cleveland	**33GC73**

No. of Pieces	Profile Bit Shape Included	Brand	Item No.
3	Flush Trim	—	**16Y598**
3	Rail, Raised Panel, Stile	—	**16Y604**
3	Rail, Raised Panel, Stile	Westward	**45J321**
3	Straight	—	**16Y597**
4	Flush Trim, Panel, Pattern	—	**16Y548**
4	Forming	—	**16Y603**
4	Roundover	—	**16Y602**
4	Roundover	Vermont American	**41HR19**
5	Straight	—	**16Y547**
6	Chamfer, Cove, Rabbetting, Roman Ogee, Roundover	—	**16Y554**
6	Flush Trim, Pattern, Straight	—	**16Y599**
6	Slot Cutter	—	**16Y601**
8	Upshear Design, V-Groove, Core Box, Spiral Plunge, Down Cut, Bottom Cleaning/Spoil Board, 0.10° Tapered Angle Ball Tip, 2D & 3D Carving, 2D & 3D Carving, 5.4° Tapered Angle Ball Tip, 90° Angle	Powermatic	**52XJ10**
10	Chamfer, Core Box, Cove, Rabbeting, Roman Ogee, Roundover, Straight	—	**16Y553**
30	Chamfer, Classical, Core Box, Cove, Dovetail, Keyhole, Mortising, Ogee, Ovolo, Panel, Rabbeting, Roman Ogee, Roundover, Straight	—	**16Y605**

8 Piece
52XJ10

Router Bit Sets

Router bit sets contain multiple bits for creating decorative edges and other features in workpieces. These bits are used in woodworking and light manufacturing applications in a variety of materials, including wood, some metals, plastics, and composites.

Solid Router Bits

Solid router bits make plunge and profile cuts in solid surfaces. The geometry of the router bit helps determine the material it's best suited for use with. These router bits are used in CNC routers, machining centers, and milling machines for manufacturing and production applications.

Carbide Solid Router Bit for Wood Spiral Downcut
4VZX3

Cutter Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
Carbide Solid Router Bits for Aluminum						
Spiral O-Flute Downcut						
1/16 in	¼ in	1 ½ in	⅛ in	22 °	Onsrud	**4KPR6**
⅛ in	½ in	2 in	¼ in	22 °	Onsrud	**4KPR8**
¼ in	⅜ in	2 in	¼ in	22 °	Onsrud	**4KPR9**
Spiral O-Flute Upcut						
1/16 in	¼ in	1 ½ in	⅛ in	22 °	Onsrud	**4KPT2**
⅛ in	¼ in	1 ½ in	⅛ in	22 °	Onsrud	**4KPT3**
⅛ in	¼ in	2 in	¼ in	22 °	Onsrud	**4KPT4**
⅛ in	½ in	2 in	¼ in	22 °	Onsrud	**4KPT5**
3/16 in	⅝ in	2 in	¼ in	22 °	Onsrud	**4KPT7**
¼ in	⅜ in	2 in	¼ in	22 °	Onsrud	**4KPT8**
¼ in	¾ in	2 ½ in	¼ in	22 °	Onsrud	**4KPT9**
¼ in	1 ¼ in	3 in	¼ in	22 °	Onsrud	**4KPU1**
5/16 in	¾ in	3 in	½ in	22 °	Onsrud	**4KPU2**
⅜ in	¾ in	3 in	⅜ in	22 °	Onsrud	**4KPU4**
⅜ in	1 ⅛ in	3 in	⅜ in	22 °	Onsrud	**4KPU5**
½ in	1 ⅜ in	3 ½ in	½ in	22 °	Onsrud	**4KPU7**
½ in	1 ⅛ in	3 ½ in	½ in	22 °	Onsrud	**4KPU6**
Spiral Upcut						
1/16 in	¼ in	1 ½ in	⅛ in	30 °	Micro 100	**18F020**
1/16 in	¼ in	2 in	¼ in	30 °	Micro 100	**18F021**
⅛ in	¼ in	1 ½ in	⅛ in	30 °	Micro 100	**18F022**
⅛ in	¼ in	2 in	¼ in	30 °	Micro 100	**18F024**
⅛ in	½ in	1 ½ in	⅛ in	30 °	Micro 100	**18F023**
⅛ in	½ in	2 in	¼ in	30 °	Micro 100	**18F025**
3/16 in	½ in	2 in	3/16 in	30 °	Micro 100	**18F027**
3/16 in	⅝ in	2 in	¼ in	30 °	Micro 100	**18F030**
¼ in	¾ in	2 ½ in	¼ in	30 °	Micro 100	**18F034**
¼ in	1 ¼ in	3 in	¼ in	30 °	Micro 100	**18F032**
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	Micro 100	**18F035**
½ in	1 in	3 in	½ in	30 °	Micro 100	**18F037**
Carbide Solid Router Bits for Composites						
Spiral Downcut						
⅛ in	9/16 in	1 ½ in	⅛ in	30 °	OSG	**33PC26**
¼ in	¾ in	2 ½ in	¼ in	15 °	OSG	**35DR80**
¼ in	¾ in	2 ½ in	¼ in	30 °	OSG	**35DR56**
¼ in	¾ in	2 ½ in	¼ in	60 °	OSG	**35DR86**
¼ in	¾ in	3 in	¼ in	45 °	OSG	**35DR59**
¼ in	¾ in	3 in	¼ in	60 °	OSG	**35DR64**
¼ in	1 in	3 in	¼ in	15 °	OSG	**35DR83**
⅜ in	⅞ in	3 in	⅜ in	10 °	Onsrud	**4KPH4**
⅜ in	⅞ in	3 in	⅜ in	30 °	OSG	**35DR57**
½ in	1 ⅛ in	3 ½ in	½ in	10 °	Onsrud	**4KPH5**
½ in	1 in	3 in	½ in	60 °	OSG	**35DR89**
Spiral Upcut						
½ in	1 ⅛ in	3 in	½ in	10 °	Onsrud	**4KPH3**
Straight Flute						
½ in	¾ in	4 in	½ in	0 °	Onsrud	**4KPP5**
Carbide Solid Router Bits for Foam						
Spiral Upcut						
⅛ in	1 ⅛ in	2 ½ in	¼ in	25 °	Onsrud	**4KPE3**
3/16 in	1 ⅛ in	3 in	3/16 in	25 °	Onsrud	**4KPE4**
3/16 in	1 ⅝ in	4 in	3/16 in	25 °	Onsrud	**4KPE5**
¼ in	2 ¼ in	4 in	¼ in	25 °	Onsrud	**4KPE6**
5/16 in	3 ⅛ in	6 in	5/16 in	25 °	Onsrud	**4KPE7**
⅜ in	3 ½ in	6 in	⅜ in	25 °	Onsrud	**4KPE8**
Carbide Solid Router Bits for General Purpose Applications						
Spiral Downcut						
⅛ in	1 ½ in	2 in	¼ in	35 °	SGS Tool	**41CF89**
¼ in	1 ¼ in	3 in	¼ in	25 °	Micro 100	**18F082**
⅜ in	1 ⅛ in	3 in	⅜ in	25 °	Micro 100	**18F085**
½ in	2 in	4 in	½ in	35 °	SGS Tool	**41AY23**
Spiral O-Flute Downcut						
⅛ in	½ in	2 in	¼ in	25 °	Onsrud	**4KPF1**
¼ in	¾ in	2 in	¼ in	25 °	Onsrud	**4KPF5**
⅜ in	1 ⅛ in	3 in	⅜ in	25 °	Onsrud	**4KPF8**
Spiral O-Flute Upcut						
1/16 in	¼ in	2 in	⅛ in	25 °	Onsrud	**4KPF9**
1/16 in	¼ in	2 in	¼ in	24 °	Onsrud	**4KNW2**
⅛ in	¼ in	2 in	¼ in	25 °	Onsrud	**4KPG1**
⅛ in	½ in	2 in	¼ in	25 °	Onsrud	**4KPG3**
3/16 in	⅝ in	2 in	¼ in	24 °	Onsrud	**4KNW5**
3/16 in	1 ¼ in	3 in	¼ in	25 °	Onsrud	**4KPG5**
¼ in	⅜ in	2 ½ in	¼ in	24 °	Onsrud	**4KNW6**
¼ in	⅝ in	2 in	¼ in	25 °	Onsrud	**4KPG6**
¼ in	¾ in	2 ½ in	¼ in	11 °	Onsrud	**4WAE6**
¼ in	¾ in	2 ½ in	¼ in	24 °	Onsrud	**4KNW7**
¼ in	⅞ in	2 ½ in	¼ in	25 °	Onsrud	**4KPG7**
¼ in	1 ½ in	3 in	¼ in	25 °	Onsrud	**4KPG9**
⅜ in	1 in	3 in	⅜ in	11 °	Onsrud	**4WAE7**
⅜ in	1 ⅛ in	3 in	⅜ in	24 °	Onsrud	**4KNW8**
⅜ in	1 ⅛ in	3 in	⅜ in	25 °	Onsrud	**4KPH1**
½ in	1 ⅛ in	3 ½ in	½ in	11 °	Onsrud	**4WAE8**
½ in	2 ⅛ in	4 ½ in	½ in	11 °	Onsrud	**4WAF1**
Spiral Upcut						
⅛ in	¼ in	2 in	¼ in	30 °	Onsrud	**4KPC3**
⅛ in	½ in	2 in	¼ in	25 °	Micro 100	**18F133**
¼ in	¾ in	2 ½ in	¼ in	25 °	Micro 100	**18F142**
Straight Flute						
¼ in	¾ in	2 ½ in	¼ in	0 °	OSG	**35DA07**
½ in	1 in	3 in	½ in	0 °	OSG	**35DA19**
Straight O-Flute						
⅛ in	5/16 in	2 in	¼ in	0 °	Onsrud	**4KNT4**
⅛ in	½ in	2 in	¼ in	0 °	Onsrud	**4KNT5**
⅛ in	⅝ in	4 in	¼ in	0 °	Onsrud	**4KNT6**
5/32 in	9/16 in	2 in	¼ in	0 °	Onsrud	**4KNT7**
3/16 in	⅝ in	2 in	¼ in	0 °	Onsrud	**4KNT9**
3/16 in	1 in	4 in	¼ in	0 °	Onsrud	**4KNU1**
¼ in	¾ in	2 ½ in	¼ in	0 °	Onsrud	**4KNU3**
¼ in	1 in	3 ¼ in	¼ in	0 °	Onsrud	**4KNU5**
¼ in	1 ¼ in	4 in	¼ in	0 °	Onsrud	**4KNU6**
Straight V-Flute						
⅜ in	½ in	2 ½ in	⅜ in	0 °	Onsrud	**4KPC2**
Carbide Solid Router Bits for Hard Plastics						
Spiral O-Flute Downcut						
⅛ in	½ in	2 in	¼ in	21 °	Onsrud	**4KNV1**
3/16 in	⅝ in	2 in	¼ in	21 °	Onsrud	**4KNV2**
¼ in	¾ in	2 ½ in	¼ in	21 °	Onsrud	**4KNV3**
¼ in	1 ½ in	3 in	¼ in	21 °	Onsrud	**4KNV5**
¼ in	1 ¼ in	3 in	¼ in	21 °	Onsrud	**4KNV4**
Spiral O-Flute Upcut						
1/16 in	¼ in	2 in	⅛ in	21 °	Onsrud	**4KNW9**
1/16 in	¼ in	2 in	¼ in	21 °	Onsrud	**4KNX1**
⅛ in	½ in	2 in	⅛ in	21 °	Onsrud	**4KNX4**
⅛ in	½ in	2 in	¼ in	21 °	Onsrud	**4KNX5**
5/32 in	9/16 in	2 in	¼ in	21 °	Onsrud	**4KNX6**
3/16 in	⅜ in	2 in	¼ in	21 °	Onsrud	**4KNX7**
3/16 in	⅝ in	2 in	3/16 in	21 °	Onsrud	**4KNX8**
3/16 in	⅝ in	2 in	¼ in	21 °	Onsrud	**4KNX9**
¼ in	¾ in	2 ½ in	¼ in	21 °	Onsrud	**4KNY2**
¼ in	1 ¼ in	3 in	¼ in	21 °	Onsrud	**4KNY4**
¼ in	1 ½ in	3 in	¼ in	21 °	Onsrud	**4KNY5**
⅜ in	1 ⅛ in	3 in	⅜ in	21 °	Onsrud	**4KNY6**
½ in	1 ⅝ in	3 ½ in	½ in	21 °	Onsrud	**4KNY7**
Straight V-Flute						
⅛ in	¼ in	2 in	¼ in	0 °	Onsrud	**4WAF8**
3/16 in	⅝ in	2 in	¼ in	0 °	Onsrud	**4WAF9**
¼ in	¾ in	2 ½ in	¼ in	0 °	Onsrud	**4WAG1**
¼ in	1 ¼ in	4 in	¼ in	0 °	Onsrud	**4WAG2**
⅜ in	⅞ in	2 ½ in	⅜ in	0 °	Onsrud	**4WAG3**
Carbide Solid Router Bits for Soft Plastic						
Spiral O-Flute Downcut						
⅛ in	½ in	2 in	¼ in	21 °	Onsrud	**4KNV7**
3/16 in	⅝ in	2 in	¼ in	21 °	Onsrud	**12A959**
¼ in	¾ in	2 ½ in	¼ in	21 °	Onsrud	**4KNV8**
¼ in	1 ¼ in	3 in	¼ in	21 °	Onsrud	**4KNV9**
½ in	1 ⅝ in	3 ½ in	½ in	21 °	Onsrud	**12A961**
Spiral O-Flute Upcut						
1/16 in	¼ in	2 in	¼ in	21 °	Onsrud	**4KNY9**
⅛ in	¼ in	2 in	¼ in	21 °	Onsrud	**4KNZ1**
⅛ in	½ in	2 in	¼ in	21 °	Onsrud	**4KNZ3**
3/16 in	⅝ in	2 in	¼ in	21 °	Onsrud	**4KNZ4**
¼ in	¾ in	2 ½ in	¼ in	21 °	Onsrud	**4KNZ6**
¼ in	1 ¼ in	3 in	¼ in	21 °	Onsrud	**4KNZ7**
¼ in	1 ¼ in	3 in	¼ in	22 °	Onsrud	**4WAF2**
⅜ in	1 ⅛ in	3 in	⅜ in	21 °	Onsrud	**4KNZ8**
⅜ in	1 ⅝ in	3 ½ in	⅜ in	21 °	Onsrud	**4KNZ9**
⅜ in	1 ½ in	4 in	⅜ in	22 °	Onsrud	**4WAF3**
½ in	1 ¼ in	4 in	½ in	22 °	Onsrud	**4WAF4**
½ in	2 ⅛ in	4 in	½ in	22 °	Onsrud	**4WAF6**
Straight O-Flute						
⅛ in	½ in	2 in	¼ in	0 °	Onsrud	**4WAG7**
3/16 in	⅝ in	2 in	¼ in	0 °	Onsrud	**4WAG9**
3/16 in	1 in	4 in	¼ in	0 °	Onsrud	**4WAH1**
¼ in	⅜ in	2 ½ in	¼ in	0 °	Onsrud	**4WAH2**
¼ in	1 in	2 ½ in	¼ in	0 °	Onsrud	**4WAH3**
¼ in	1 in	3 ¼ in	¼ in	0 °	Onsrud	**4WAH4**
¼ in	1 ¼ in	4 in	¼ in	0 °	Onsrud	**4WAH5**
½ in	1 in	3 in	½ in	0 °	Onsrud	**4KNT1**
½ in	2 ⅛ in	6 in	½ in	0 °	Onsrud	**4KNT3**
Carbide Solid Router Bits for Stainless Steel						
Spiral Upcut						
⅛ in	¼ in	2 in	⅛ in	30 °	Onsrud	**4KPH6**
3/16 in	⅜ in	2 ½ in	3/16 in	30 °	Onsrud	**4KPH7**
¼ in	⅜ in	2 ½ in	¼ in	30 °	Onsrud	**4KPH8**
⅜ in	½ in	3 in	⅜ in	30 °	Onsrud	**4KPH9**
Carbide Solid Router Bits for Wood						
¼ in	1 in	2 ½ in	¼ in		Westward	**16Y577**
Compression Spiral						
⅜ in	1 ⅛ in	3 in	⅜ in	30 °	Onsrud	**4VZZ8**
½ in	1 ⅛ in	3 in	½ in	30 °	Onsrud	**4WAA1**
½ in	1 ⅜ in	3 ½ in	½ in	30 °	Onsrud	**4WAA4**
½ in	1 ⅝ in	4 in	½ in	30 °	Onsrud	**4WAA3**
¾ in	2 ¼ in	5 in	¾ in	30 °	Onsrud	**4WAA6**
Spiral Downcut						
⅛ in	½ in	2 in	⅛ in	30 °	Onsrud	**4VZX3**
⅛ in	½ in	2 in	¼ in	30 °	Onsrud	**4VZX4**
5/32 in	⅝ in	2 in	¼ in	30 °	Onsrud	**4VZX5**
3/16 in	¾ in	2 in	¼ in	30 °	Onsrud	**4VZX6**
¼ in	⅞ in	2 ½ in	¼ in	30 °	Onsrud	**4VZX8**
¼ in	⅞ in	3 in	¼ in	10 °	Onsrud	**4WAC8**
¼ in	1 in	2 ½ in	¼ in	25 °	Freud	**53DJ46**
¼ in	1 in	2 ½ in	¼ in	30 °	Onsrud	**4VZX9**
¼ in	1 ⅛ in	3 in	¼ in	30 °	Onsrud	**4VZY1**
⅜ in	1 ¼ in	3 in	⅜ in	30 °	Onsrud	**4VZY5**
7/16 in	1 in	3 in	½ in	30 °	Onsrud	**4VZY7**
½ in	1 ⅛ in	3 in	½ in	30 °	Onsrud	**4VZY8**
½ in	1 ⅝ in	3 ½ in	½ in	30 °	Onsrud	**4VZZ1**
½ in	2 ⅛ in	4 ½ in	½ in	10 °	Onsrud	**4WAE2**
½ in	2 ⅛ in	4 in	½ in	30 °	Onsrud	**4VZZ2**
17/32 in	1 ⅛ in	3 in	½ in	30 °	Onsrud	**4VZZ3**
¾ in	1 ⅝ in	4 in	¾ in	30 °	Onsrud	**4VZZ5**
Spiral Upcut						
⅛ in	½ in	2 in	¼ in	30 °	Onsrud	**4VZV6**
3/16 in	¾ in	2 in	¼ in	30 °	Onsrud	**4VZV7**
¼ in	⅞ in	3 in	¼ in	10 °	Onsrud	**4WAA8**
¼ in	1 in	2 ½ in	¼ in	30 °	Onsrud	**4VZW1**
¼ in	1 ⅛ in	3 in	¼ in	30 °	Onsrud	**4VZW2**
⅜ in	⅝ in	3 in	⅜ in	10 °	Onsrud	**4WAA9**
⅜ in	1 ⅛ in	3 in	⅜ in	10 °	Onsrud	**4WAC1**
⅜ in	1 ¼ in	3 in	½ in	30 °	Onsrud	**4VZW6**
½ in	1 ⅛ in	3 ½ in	½ in	10 °	Onsrud	**4WAC2**
½ in	1 ⅛ in	3 in	½ in	30 °	Onsrud	**4VZW7**
½ in	1 ⅝ in	4 in	½ in	10 °	Onsrud	**4WAC3**
½ in	2 ⅛ in	4 in	½ in	30 °	Onsrud	**4VZX1**
Diamond-Cut Carbide Solid Router Bits for Composites						
Burr End						
3/16 in	⅝ in	2 in	3/16 in	N/A	Micro 100	**18E978**
¼ in	½ in	2 ½ in	¼ in	15 °	OSG	**35DR24**
¼ in	1 in	3 in	¼ in	15 °	OSG	**35DR38**
⅜ in	1 ⅛ in	3 in	⅜ in	15 °	OSG	**35DR36**
½ in	1 in	3 in	½ in	N/A	Micro 100	**18E985**
Diamond Cut						
⅛ in	½ in	1 ½ in	⅛ in	N/A	OSG	**35CN41**
¼ in	¾ in	2 ½ in	¼ in	N/A	—	**19D933**
¼ in	1 in	3 in	¼ in	N/A	—	**55JD81**
5/16 in	13/16 in	2 ½ in	5/16 in	N/A	OSG	**35CN52**
½ in	1 ⅛ in	3 ½ in	½ in	N/A	Onsrud	**4KPL2**
½ in	1 in	3 in	½ in	N/A	—	**19D935**
End Mill						
⅛ in	7/16 in	1 ½ in	⅛ in	N/A	OSG	**35DA30**
⅛ in	½ in	1 ½ in	⅛ in	15 °	OSG	**35DR32**
¼ in	¾ in	2 ½ in	¼ in	15 °	OSG	**33PC25**
¼ in	¾ in	2 in	¼ in	N/A	OSG	**35DA42**
¼ in	¾ in	2 ½ in	¼ in	N/A	OSG	**35DA46**
Fishtail						
⅜ in	1 in	2 ½ in	⅜ in	N/A	Micro 100	**18F018**
Plain End						
⅛ in	½ in	1 ½ in	⅛ in	N/A	Micro 100	**18E966**
3/16 in	⅝ in	2 in	¼ in	N/A	Micro 100	**18E968**
¼ in	¾ in	2 ½ in	¼ in	N/A	Micro 100	**18E970**
¼ in	1 in	3 in	¼ in	N/A	Micro 100	**18E971**

WIDIA

Carbide Burs

- For long shank burs, see Grainger.com®
- For information on overall length, see Grainger.com®

Single Cut—For general purpose use on steel, cast iron, ferrous, and nonferrous metals.

Double Cut—For use on steel, stainless steel, high-temperature alloys, and cast iron.

Diamond Cut—For fiberglass routing.

Cylinder - No End Cut (SA)

Cylinder - End Cut (SB)

Cylinder - Radius End (SC)

Ball (SD)

Egg/Oval (SE)

Tree - Radius (SF)

Trade No.	Cutter Dia.	Length of Cut	Shank Size	APPROVED VENDOR Single Cut Item No.	APPROVED VENDOR Double Cut Item No.	WIDIA Single Cut Item No.	WIDIA Double Cut Item No.
Cylinder - No End Cut							
SA-1	¼"	⅝ in	¼"	**19D632**	**19D788**	**2RPW3**	**1Z318** *
SA-2	5/16"	¾ in	¼"	**19D636**	**19D792**	—	**6KJL0**
SA-3	⅜"	¾ in	¼"	**19D637**	**19D793**	**2RPW4**	**1Z326**
SA-5	½"	1 in	¼"	**19D643**	**19D799**	**2RPW5**	**1Z334**
SA-6	⅝"	1 in	¼"	**19D648**	—	**6KJD6**	**6KJL1**
SA-7	¾"	1 in	¼"	—	**19D806**	—	**6KJL5**
SA-9	1"	1 in	¼"	**19D650**	—	—	—
SA-11	⅛"	½ in	¼"	**19D633**	**19D789**	—	**2NHG6**
SA-41	1/16"	¼ in	⅛"	**19D640**	**19D796**	—	**6KJK8** *
SA-42	3/32"	7/16 in	⅛"	—	—	**6KJD3** *	—
SA-43	⅛"	9/16 in	⅛"	—	**19D798**	**2RPW2** *	**1Z285** *
SA-51	¼"	½ in	⅛"	—	**19D801**	—	—
SA-51	¼"	3/16 in	⅛"	—	—	—	**2NHG7**
Cylinder - End Cut							
SB-1	¼"	⅝ in	¼"	**19D653**	**19D809**	**6KJH3** †	**1Z320** *
SB-2	5/16"	¾ in	¼"	—	**19D815**	—	—
SB-3	⅜"	¾ in	¼"	**19D655**	**19D812**	**2RPW7**	**1Z328**
SB-5	½"	1 in	¼"	**19D651**	**19D808**	**2RPW8**	**1Z336**
SB-5	½"	1 in	¼"	—	—	**6KJH5** †	—
SB-6	⅝"	1 in	¼"	—	**19D814**	—	**6KJL4**
SB-7	¾"	1 in	¼"	—	—	—	**1Z344**
SB-14	3/16"	⅝ in	¼"	—	**19D813**	—	—
SB-41	1/16"	¼ in	⅛"	—	—	**6KJD8** *	—
SB-42	3/32"	7/16 in	⅛"	**19D658**	**19D816**	—	—
SB-51	¼"	½ in	⅛"	—	—	—	**2NHG9** *
Cylinder - Radius End							
SC-1	¼"	⅝ in	¼"	**19D683**	**19D823**	—	**1Z352** *
SC-2	5/16"	¾ in	¼"	—	**19D830**	**6KJE1** *	**6KJL7** *
SC-3	⅜"	¾ in	¼"	**19D673**	**19D827**	**2RPX3** *	**1Z356**
SC-4	7/16"	1 in	¼"	**19D681**	—	—	—
SC-5	½"	1 in	¼"	—	—	**6KJH7** * †	—
SC-5	½"	1 in	¼"	**19D668**	**19D822**	**6KJE2**	**1Z358**
SC-6	⅝"	1 in	¼"	—	**19D829**	—	**6KJL8** *
SC-7	¾"	1 in	¼"	**19D678**	—	—	—
SC-11	⅛"	½ in	¼"	**19D671**	**19D825**	—	**2RPU1** *
SC-14	3/16"	⅝ in	¼"	—	**19D828**	—	—
SC-41	3/32"	7/16 in	⅛"	—	—	—	**1Z292** *
SC-42	⅛"	9/16 in	⅛"	—	**19D826**	**2RPX1** *	**1Z288** *
SC-51	¼"	½ in	⅛"	—	**19D824**	—	**2RPU2**
Ball							
SD-1	¼"	7/32 in	¼"	—	**19D838**	—	—
SD-1	¼"	¼ in	¼"	—	—	**2RPX6**	**1Z408**
SD-3	⅜"	5/16 in	¼"	**19D692**	**19D844**	—	—
SD-3	⅜"	⅜ in	¼"	—	—	**2RPX7**	**1Z410**
SD-3	⅜"	⅜ in	¼"	—	—	**6KJH8**	—
SD-4	7/16"	⅜ in	¼"	**19D696**	—	—	—
SD-5	½"	7/16 in	¼"	—	**19D851**	—	—
SD-5	½"	½ in	¼"	—	—	**2RPX8**	**1Z412**
SD-6	⅝"	9/16 in	¼"	**19D706**	—	—	—
SD-7	¾"	¾ in	¼"	—	—	**6KJE9**	**6KJN4**
SD-9	1"	15/16 in	¼"	**19D708**	—	—	—
SD-9	1"	1 in	¼"	—	—	—	**6KJN5**
SD-11	⅛"	⅛ in	¼"	—	—	**6KJE4**	**2RPU3**
SD-40	1/16"	1/16 in	⅛"	—	—	**6KJE3** *	—
SD-41	3/32"	3/32 in	⅛"	—	—	**2RPX5** *	**1Z300** *
SD-42	⅛"	⅛ in	⅛"	—	**19D850**	—	**1Z294** *
SD-51	¼"	7/32 in	⅛"	—	**19D852**	—	—
SD-51	¼"	¼ in	⅛"	—	—	**6KJE7**	**2RPU4**
SD-53	3/16"	5/32 in	⅛"	**19D703**	**19D853**	—	—
SD-53	3/16"	3/16 in	⅛"	—	—	—	**6KJL9** *
Egg/Oval							
SE-1	¼"	⅜ in	¼"	—	**19D860**	—	**2RPU7**
SE-3	⅜"	⅝ in	¼"	—	**19D863**	—	**1Z399**
SE-5	½"	1 in	¼"	—	—	**6KJJ0** †	—
SE-5	½"	⅞ in	¼"	**19D709**	**19D859**	—	**1Z401** *
SE-6	⅝"	1 in	¼"	—	**19D866**	—	—
SE-7	¾"	1 in	¼"	**19D715**	**19D865**	—	—
SE-41	⅛"	7/32 in	⅛"	—	**19D862**	—	**2RPU5** *
SE-51	¼"	⅜ in	⅛"	—	—	—	**2RPU6**
SE-53	3/16"	9/32 in	⅛"	—	—	—	**6KJN6** *
Tree - Radius							
SF-1	¼"	⅝ in	¼"	**19D718**	**19D867**	—	**1Z366**
SF-3	⅜"	¾ in	¼"	**19D722**	**19D871**	**2RPY5**	**1Z368**
SF-3	⅜"	¾ in	¼"	—	—	**6KJJ1** †	—
SF-5	½"	1 in	¼"	**19D726**	**19D875**	**6KJJ2** †	**1Z372**
SF-6	⅝"	1 in	¼"	**19D729**	—	—	**1Z374** *
SF-7	¾"	1 in	¼"	—	—	—	**6KJN8**
SF-13	½"	¾ in	¼"	**19D719**	—	—	**6KJN7**
SF-14	¾"	1¼ in	¼"	—	**19D869**	—	—
SF-15	¾"	1½ in	¼"	—	**19D870**	—	—
SF-41	⅛"	¼ in	⅛"	—	—	**2RPY3** *	**1Z306** *
SF-42	⅛"	½ in	⅛"	—	—	**6KJF3** *	**2RPU9** *
SF-51	¼"	½ in	⅛"	—	—	**6KJF4**	**2RPV1**

** Solid carbide tool; all others have hardened steel shanks. † For cutting aluminum.*

CONTINUED

CONTINUED

WIDIA

Carbide Burs

Trade No.	Cutter Dia.	Length of Cut	Shank Size	APPROVED VENDOR Single Cut Item No.	APPROVED VENDOR Double Cut Item No.	WIDIA Single Cut Item No.	WIDIA Double Cut Item No.
Tree - Pointed							
SG-1	¼"	⅝ in	¼"	19D753	19D880	6KJF9	1Z378
SG-3	⅜"	¾ in	¼"	19D758	19D885	—	6KJP1
SG-5	½"	1 in	¼"	—	19D891	—	1Z382
SG-6	⅝"	1 in	¼"	19D768	—	—	—
SG-13	½"	¾ in	¼"	19D754	—	—	—
SG-15	¾"	1½ in	¼"	19D755	—	—	—
SG-41	⅛"	¼ in	⅛"	19D760	—	—	6KJN9 *
SG-42	⅛"	5/16 in	⅛"	19D761	—	—	—
SG-43	⅛"	⅜ in	⅛"	—	—	6KJF6 *	—
SG-44	⅛"	½ in	⅛"	—	—	6KJF7 *	6KJP0 *
SG-51	¼"	½ in	⅛"	—	19D892	—	—
SG-51	3/16"	½ in	⅛"	19D766	—	—	—
Flame							
SH-2	5/16"	¾ in	¼"	—	—	6KJG3	—
SH-5	½"	1¼ in	¼"	19D735	19D911	—	—
SH-5	½"	1 ¼ in	¼"	—	—	—	2RPV2
SH-41	⅛"	¼ in	⅛"	—	—	2RPY7 *	1Z296 *
SH-53	3/16"	⅜ in	⅛"	—	19D915	6KJG2 *	—
Taper - Radius							
SL-1	¼"	⅝ in	¼"	—	19D918	—	6KJP6
SL-2	5/16"	⅞ in	¼"	—	19D919	—	6KJP7
SL-3	⅜"	1 1/16 in	¼"	19D774	19D920	—	—
SL-3	⅜"	1 15/16 in	¼"	—	—	—	5ET16 *
SL-4	½"	1⅛ in	¼"	—	19D921	—	—
SL-4	½"	1 ⅛ in	¼"	—	—	6KJJ3 †	—
SL-4	½"	1 ¼ in	¼"	—	—	—	5ET18 *
SL-6	⅝"	1 5/16 in	¼"	—	19D924	—	—
SL-6	⅝"	1 5/16 in	¼"	—	—	—	6KJP8
SL-7	¾"	1½ in	¼"	—	19D925	—	—
SL-41	⅛"	⅜ in	⅛"	—	—	—	6KJP4 *
SL-42	⅛"	½ in	⅛"	—	—	6KJG5 *	6KJP5 *
Pointed Cone							
SM-1	¼"	½ in	¼"	—	19D901	—	2RPV7
SM-2	¼"	¾ in	¼"	—	19D902	2RPY8	1Z386
SM-3	¼"	1 in	¼"	—	19D903	—	2RPV8
SM-4	⅜"	⅝ in	¼"	19D745	19D908	—	1Z390
SM-5	½"	⅞ in	¼"	—	19D899	2RPZ1	1Z392
SM-6	⅝"	1 in	¼"	19D747	19D909	—	6KJP9
SM-41	⅛"	⅜ in	⅛"	19D742	—	—	2RPV3 *
SM-42	⅛"	7/16 in	⅛"	—	—	6KJG9 *	1Z304 *
SM-43	⅛"	⅝ in	⅛"	—	—	6KJH0 *	2RPV5 *
SM-51	¼"	½ in	⅛"	—	19D904	—	2RPV6
Inverted Cone							
SN-41	3/32"	⅛ in	⅛"	19D786	—	—	—
SN-42	⅛"	3/16 in	⅛"	—	19D929	—	—
SN-53	3/16"	¼ in	⅛"	—	19D932	—	—

Cutter Dia.	Length of Cut	Shank Size	Approved Vendor Item No.	WIDIA Item No.
Diamond Cut				
¼ in	¾ in	¼"	19D933	6KJC9
½ in	1 in	½"	19D935	6KJD1
⅜ in	1 in	⅜"	—	6KJD0

** Solid carbide tool; all others have hardened steel shanks. † For cutting aluminum.*

Tree - Pointed (SG)

Flame (SH)

Taper - Radius (SL)

Pointed Cone (SM)

Inverted Cone (SN)

Diamond Cut

Cylinder (SA)

Ball (SD)

Aluma Cut Carbide Burs

These single-end burrs are designed with a high flute finish for easy chip flow in soft materials such as aluminum, plastics, and zinc. Made of micrograin C-2 grade premium carbide with 8% to 10% cobalt content. For use in die grinders, CNC machining centers, and high-speed dremel-type rotary tools.

Note: Additional trade sizes available, go to Grainger.com®.

Trade No.	Cutter Dia.	Length of Cut	Shank Size	Item No.
Ball				
SD-7NF	¾"	1¹⁄₁₆ in	¼"	**22YE03**
SD-5NF	½"	⁷⁄₁₆ in	¼"	**22YD21**
Cylinder				
SA-5NF	½"	1 in	¼"	**22YD15**
SA-1NF	¼"	⅝ in	¼"	**22YD32**
Cylinder - End Cut				
SB-5NF	½"	1 in	¼"	**22YD41**
SB-7NF	¾"	1 in	¼"	**22YD43**
SB-3NF	⅜"	¾ in	¼"	**22YD40**
Cylinder - Radius End				
SC-5NF	½"	1 in	¼"	**22YD18**
SC-6NF	⅝"	1 in	¼"	**22YD19**
SC-3NF	⅜"	¾ in	¼"	**22YD17**
Egg/Oval				
SE-5NF	½"	⅞ in	¼"	**22YD24**
Taper - Radius				
SL-3NF	⅜"	1¹⁄₁₆ in	¼"	**22YD29**
SL-4NF	½"	1⅛ in	¼"	**22YD30**
Tree - Radius				
SF-5NF	½"	1 in	¼"	**22YD27**
SF-3NF	⅜"	¾ in	¼"	**22YD26**

Cone
38TC36

Inox Cut, 5 pc.
49EJ45

sgspro

Carbide Burs and Sets

- Suitable for ferrous and nonferrous applications
- Ensure efficient stock removal
- Use for optimum surface finish
- Note: Additional sets available, go to Grainger.com®.

Shape	Trade No.	Cutter Dia.	Length of Cut	Shank Size	Item No.
Ball Bur SDs					
Ball	SD-5CO	½"	¾ in	¼"	**38TC26**
Cone Burs					
Cone	SM-5CO	½"	1¼ in	¼"	**38TC36**
60° Countersink	SJ-5RA	½"	1¼ in	¼"	**38TC21**
Cylinder Bur SAs					
Cylinder	SA-5RA	½"	1 in	¼"	**38TC14**
Oval Bur SEs					
Oval	SE-1	¼"	⅜ in	¼"	**38TA69**
Tree Bur SGs					
Pointed Tree	SG-5RA	½"	1¼ in	¼"	**38TC20**

Type	No. of Pieces	Shank Size (in.)	Includes	Item No.
Carbide Bur Sets				
Steel Cut	5	¼"	SB-5, SC-5, SF-5, SG-5, SL-4	**49EJ74**
Omega Cut	5	¼	SB-5, SC-5, SF-5, SG-5, SL-4	**49EJ80**
Inox Cut	5	¼	SA-5, SC-5, SF-5, SG-5, SL-4	**49EJ45**
Double Cut	5	¼	SB-3, SC-5, SF-5, SG-3, SL-4	**49EJ75**

2C919

2C923

22XY05

Carbide Bur Sets

WESTWARD® WIDIA

No. of Pieces	Shank Size (in.)	Includes	DOUBLE CUT Item No.	SINGLE CUT Item No.
Approved Vendor				
8	¼	Rosewood Box, SA-5, SC-5, SD-5, SE-5, SG-5, SH-5, SK-5, SM-5	**22XX94**	**22XX66**
9	¼"	Rosewood Box, SB-1, SB-3, SB-5, SD-1, SD-3, SD-5, SE-1, SE-3, SE-5	**22XX91**	—
	¼	Rosewood Box, SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SM-3, SN-2	**22XX88**	—
	¼"	Rosewood Box, SB-3, SC-3, SD-3, SE-3, SF-3, SG-3, SK-3, SL-3, SM-3	**22XX89**	—
	¼"	Rosewood Box, SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SM-3, SN-2	—	**22XX60**
12	⅛"	Rosewood Box, SA-51, SA-52, SB-51, SC-51, SC-52, SD-51, SD-52, SE-51, SF-51, SG-51, SM-51, SN-51	**22XX83**	—
	⅛"	Rosewood Box, SA-42, SA-43, SC-42, SD-42, SE-41, SF-41, SF-42, SG-41, SL-42, SM-43, SN-41, SN-42	**22XX76**	**22XX48**
	⅛"	Rosewood Box, SA-52, SA-53, SC-52, SC-53, SD-52, SD-53, SE-53, SF-53, SG-53, SH-53, SM-53, SN-53	**22XX81**	—
	¼"	Rosewood Box, SA-1, SA-3, SA-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5, SG-1, SG-3, SG-5	**22XX96**	—
	¼"	Rosewood Box, SA-5, SB-5, SC-5, SD-5, SE-5, SF-5, SG-5, SH-5, SJ-5, SK-5, SL-4, SM-5	**22XY04**	**22XX75**
	¼	Rosewood Box, SA-3, SB-3, SC-3, SD-3, SE-3, SF-3, SG-3, SJ-3, SK-3, SL-3, SM-4, SN-2	**22XY03**	—
	¼"	Rosewood Box, SB-1, SB-3, SB-5, SD-1, SD-3, SD-5, SF-1, SF-3, SF-5, SN-1, SN-2, SN-4	**22XX98**	—
	¼	Rosewood Box, SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SE-1, SE-3, SE-5, SM-1, SM-3, SM-5	**22XX97**	—
Westward				
5	⅛"	SA-51, SC-51, SD-51, SF-51, SM-51	**2LYT5**	—
	¼"	SA-1, SC-1, SD-1, SF-1, SM-1	**2LYT3**	**2LYT2**
9	⅛"	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51	**2LYR4**	—
12	⅛	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-43, SH-41, SL-42, SM-42, SN-42	**2LYR8**	—
	⅛"	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-43, SH-41, SL-42, SM-42, SN-42	—	**2LYR7**
	¼"	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SK-1, SL-1, SM-1, SN-1	**2LYR6**	—
	¼	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SK-1, SL-1, SM-1, SN-1	—	**2LYR5**
16	¼"	SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-3, SD-5, SE-3, SF-1, SF-3, SF-5, SG-1, SG-3, SL-3, SL-4	**2LYT1**	**2LYR9**
WIDIA				
8	¼"	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-2	**2C919**	—
	¼"	SA-05, SC-5, SD-05, SE-05,SF-05, SG-5, SL-4, SM-05	**2RPW1**	—
9	⅛"	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51	**2RPV9**	—
	⅛"	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-42, SM-43	**2C923**	—

No. of Pieces	Shank Size (in.)	Includes	ALUMA CUT Item No.
Approved Vendor			
10	¼"	Rosewood Box, SA-1NF, SA-3NF, SB-3NF, SC-1NF, SC-3NF, SD-1NF, SD-3NF, SE-3NF, SF-3NF, SL-3NF	**22XY05**
12	¼"	Rosewood Box, SA-1NF, SA-3NF, SA-5NF, SB-5NF, SD-1NF, SD-3NF, SD-5NF, SF-1NF, SF-3NF, SF-5NF, SL-3NF, SL-4NF	**22XY07**
	¼	Rosewood Box, SA-1NF, SA-3NF, SA-5NF, SC-1NF, SC-3NF, SC-5NF, SD-1NF, SD-3NF, SD-5NF, SF-1NF, SF-3NF, SF-5NF	**22XY06**

2LYT3

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

WALTER VALENITE

Turning Inserts

- Positive rake
- Screw mount
- Priced each, sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

Rhombic Round Square Triangle Trigon

ISO Grade	Application	First Choice Grade
K	Cast Iron	WCK10, WKK10S, WKK20S, WKP30S, WPP01, WPP10S, WPP20S, WPV10, WPV20, WXP30
H	Hardened	WCB30, WCB50, WKK10S, WSM01, WWS20
N	Non Ferrous	WDN10, WK1, WNN10, WSM01, WXN10
M	Stainless	WKP30S, WMP20S, WNN10, WPP20S, WPV10, WPV20, WSM01, WSM10S, WSM20, WSM20S, WSM21, WSM30S, WXP30
P	Steel	WKK20S, WKP30S, WMP20S, WNN10, WPP10S, WPP20S, WPP30S, WPV10, WPV20, WSM01, WSM10S, WSM20S, WSM21, WSM30S, WXP30
S	Super Alloy	WIS10, WMP20S, WNN10, WPP20S, WSM01, WSM10, WSM10S, WSM20, WSM20S, WSM21, WSM30S, WWS20, WXP30

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CCGT2(1.5)0.2-FM2 WSM20S	¼ in	0.004"	WSM20S	**449Y86**
CCGT2(1.5)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X41**
CCGT2(1.5)0.5-MN2 WNN10	¼ in	0.008"	WNN10	**449X86**
CCGT2(1.5)1	½ in	0.0310"	WSM20S	**53UN66**
CCGT2(1.5)2	¼ in	0.0160"	WSM01	**53UN40**
CCGT3(2.5)0.2-FM2 WSM20S	⅜ in	0.004"	WSM20S	**449Y88**
CCGT3(2.5)0.5-FN2 WNN10	⅜ in	0.008"	WNN10	**449X44**
CCGT3(2.5)0.5-PF2	⅜ in	0.0078"	WK1	**30FL25**
CCGT3(2.5)1	¼ in	0.0160"	WKK20S	**53UN39**
CCGT3(2.5)1	⅜ in	0.0310"	WPP10S	**53UN62**
CCGT3(2.5)1-FM2 WSM10S	⅜ in	0.016"	WSM10S	**449Y90**
CCGT3(2.5)1-FN2 WNN10	⅜ in	0.016"	WNN10	**449X45**
CCGT3(2.5)1-PF2	⅜ in	0.0157"	WK1	**30FL29**
CCGT3(2.5)2	⅜ in	0.0080"	WSM01	**53UN50**
CCGT3(2.5)2-PF2	⅜ in	0.0310"	WK1	**30FL33**
CCGT4(3)0.5-MN2 WNN10	½ in	0.008"	WNN10	**449X89**
CCGT432-MN2 WNN10	½ in	0.031"	WNN10	**449X91**
CCGW2(1.5)0.5FS-1 WDN10	¼ in	0.008"	WDN10	**449W71**
CCMT2(1.5)1	¼ in	0.0080"	WPP10S	**53UN75**
CCMT2(1.5)1	¼ in	0.0310"	WPP20S	**53UP37**
CCMT2(1.5)1-MM4 WSM30S	¼ in	0.016"	WSM30S	**449Z48**
CCMT2(1.5)2	¼ in	0.0160"	WPP20S	**53UN85**
CCMT3(2.5)0.5FS-1 WDN10	⅜ in	0.008"	WDN10	**449W51**
CCMT3(2.5)1	⅜ in	0.0160"	WPP20S	**53UP54**
CCMT3(2.5)1-PF WSM20S	⅜ in	0.016"	WSM20S	**450A18**
CCMT3(2.5)2	¼ in	0.0160"	WKK10S	**53UN88**
CCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53UP51**
CCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53UP98**
CCMT431	⅜ in	0.0310"	WKK10S	**53UP84**
CCMT432	½ in	0.0310"	WPP20S	**53UR79**
CCMT433	¼ in	0.0160"	WPP20S	**53UP12**
CNGA432T02020 WCK10	½ in	0.031"	WCK10	**450G14**
CNGA434T02020 WCK10	½ in	0.063"	WCK10	**450G13**
CNGG4(3)0.2 WSM01	½ in	0.004"	WSM01	**449Y12**
CNGG431-MS3 WSM01	½ in	0.016"	WSM01	**449Y14**
CNGG432-MS3 WSM01	½ in	0.031"	WSM01	**449Y15**
CNGN432T01020 WWS20	½ in	0.031"	WWS20	**449W47**
CNGN454T02020 WCK10	½ in	0.063"	WCK10	**450G15**
CNMA432-2	½ in	0.0310"	WCB50	**30FM04**
CNMG322 1369	⅜ in	0.031"	WPP30S	**450C43**
CNMG322-FP5	⅜ in	0.031"	WPP10S	**28ME23**
CNMG431-FV5 WPV20	½ in	0.016"	WPV20	**450C46**
CNMG431-MP5	½ in	0.016"	WPP20S	**28ME33**
CNMG431-MV5 WPV20	½ in	0.016"	WPV20	**450C74**
CNMG431-NF WSM20S	½ in	0.016"	WSM20S	**450A33**
CNMG431-NF4	½ in	0.016"	WSM10	**28ME38**
CNMG432-FP5	½ in	0.031"	WPP20S	**28ME50**
CNMG432-FV5 WPV10	½ in	0.031"	WPV10	**450C47**
CNMG432-MP5	½ in	0.031"	WPP10S	**28ME54**
CNMG432-MS3 WPP20S	½ in	0.031"	WPP20S	**449X19**
CNMG432-MS3 WSM10S	½ in	0.031"	WSM10S	**449X10**
CNMG432-NF4	½ in	0.031"	WSM10	**28ME60**
CNMG432-NM4	½ in	0.031"	WSM20	**28ME71**
CNMG432-NRS WSM20S	½ in	0.031"	WSM20S	**449Z76**
CNMG432-RV5 WPV10	½ in	0.031"	WPV10	**450D59**
CNMG433-MV5 WPV10	½ in	0.047"	WPV10	**450C77**
CNMG433-RM5 WPP20S	½ in	0.047"	WPP20S	**450C40**
CNMG542-MM5 WSM30S	⅝ in	0.031"	WSM30S	**450D53**
CNMG543-MK5 WKP30S	⅝ in	0.047"	WKP30S	**450F44**
CNMG543-NRS WSM30S	⅝ in	0.047"	WSM30S	**449Z81**
CNMG544-NRS WSM20S	⅝ in	0.063"	WSM20S	**449Z82**
CNMG643-RM5 WSM10S	¾ in	0.047"	WSM10S	**450F25**
CNMG644-RM5 WSM30S	¾ in	0.063"	WSM30S	**450F54**
CPGW1.8(1.5)1FS-1 WDN10	7/32 in	0.016"	WDN10	**450C15**
CPGW3(2.5)1FS-1 WDN10	⅜ in	0.016"	WDN10	**450C20**
CPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C17**
CPMT1.8(1.5)1-FP4 WPP10S	7/32 in	0.016"	WPP10S	**450A49**
DCGT2(1.5)0.2-FM2 WSM20S	¼ in	0.004"	WSM20S	**449Y49**
DCGT2(1.5)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X48**
DCGT2(1.5)2FS-M1 WDN10	¼ in	0.031"	WDN10	**449W63**
DCGT3(2.5)0.2-FM2 WSM20S	⅜ in	0.004"	WSM20S	**449Y51**
DCGT3(2.5)0.2-MN2 WNN10	⅜ in	0.004"	WNN10	**449X77**
DCGT3(2.5).5-PM2	⅜ in	0.0078"	WXN10	**30FN33**
DCGT3(2.5)1-PM2	⅜ in	0.0157"	WXN10	**30FN37**
DCGT3(2.5)1-PM2	⅜ in	0.0157"	WK1	**30FN36**
DCGT3(2.5)2-PM2	⅜ in	0.0310"	WXN10	**30FN41**
DCGW2(1.5)0.5FS-1 WDN10	¼ in	0.008"	WDN10	**449W82**
DCGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**449W84**
DCMT2(1.5)1-PF WSM30S	¼ in	0.016"	WSM30S	**450A23**
DCMT3(2.5)1-PM WSM20S	⅜ in	0.016"	WSM20S	**450A27**
DCMT3(2.5)2-PM WSM20S	⅜ in	0.031"	WSM20S	**450A28**
DNGA442T02020 WCK10	½ in	0.031"	WCK10	**450G20**
DNGG4(3)0.5 WSM01	½ in	0.008"	WSM01	**449Y16**
DNGG431-MS3 WSM01	½ in	0.016"	WSM01	**450G04**
DNGG432-MS3 WSM01	½ in	0.031"	WSM01	**449Y17**
DNMG331-FM5 WMP20S	⅜ in	0.016"	WMP20S	**450A79**
DNMG331-NMT WSM20S	⅜ in	0.016"	WSM20S	**449Y40**
DNMG431-FM5 WSM10S	½ in	0.016"	WSM10S	**450A68**
DNMG431-MM5 WMP20S	½ in	0.016"	WMP20S	**450F89**
DNMG432-FM5 WSM10S	½ in	0.031"	WSM10S	**450A84**
DNMG432-FM5 WSM20S	½ in	0.031"	WSM20S	**450A85**
DNMG432-MM5 WMP20S	½ in	0.031"	WMP20S	**450F78**
DNMG432-MM5 WSM30S	½ in	0.031"	WSM30S	**450D22**
DNMG432-NMT WSM20S	½ in	0.031"	WSM20S	**449Y42**
DNMG441-MM5 WMP20S	½ in	0.016"	WMP20S	**450F79**
DNMG442-MM5 WMP20S	½ in	0.031"	WMP20S	**450F81**
DNMG442-NMT WSM20S	½ in	0.031"	WSM20S	**449Y43**
DNMG443-RV5 WPV20	½ in	0.047"	WPV20	**450D62**
DPGW2(1.5)1FS-1 WDN10	¼ in	0.016"	WDN10	**450C19**
DPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C22**
DPMT2(1.5)1-FP4 WPP10S	¼ in	0.016"	WPP10S	**450A52**
DPMT3(2.5)2-FP4 WPP10S	⅜ in	0.031"	WPP10S	**450A54**
VBMT221-FM6 WSM10S	¼ in	0.016"	WSM10S	**449Z19**
VBMT331-FM6 WSM20S	⅜ in	0.016"	WSM20S	**450C28**
VBMT332-FM6 WSM20S	⅜ in	0.031"	WSM20S	**449Z45**
VBMT333-MK4 WKK10S	⅜ in	0.047"	WKK10S	**450C29**
VCGT2(2)0.5-FN2 WNN10	¼ in	0.008"	WNN10	**449X63**
VCGT2.5(2)0.2-MN2 WNN10	5/16 in	0.004"	WNN10	**449X26**
VCGT3(3)0.5-MM4 WSM20S	⅜ in	0.008"	WSM20S	**450F09**
VCGT221FS-1 WDN10	¼ in	0.016"	WDN10	**449W76**
VCGT331-MN WDN10	⅜ in	0.016"	WDN10	**449W94**
VCGT333-MN2 WNN10	⅜ in	0.047"	WNN10	**449X80**
VCGW22(0.5)FS-1 WDN10	¼ in	0.008"	WDN10	**449W90**
VCGW221FS-1 WDN10	¼ in	0.016"	WDN10	**449W91**
VCGW332FS-1 WDN10	⅜ in	0.031"	WDN10	**449W93**
VCGX3	0.375 in	0.008"	WXP30	**449W49**
VNGG3(3)0.2-MS3 WSM01	⅜ in	0.004"	WSM01	**449Y18**
VNGG3(3)0.5-MS3 WSM01	⅜ in	0.008"	WSM01	**449Y24**
VNGG331-MS3 WSM01	⅜ in	0.016"	WSM01	**449Y19**
VNMG3(3)0.5-FM5 WSM10S	⅜ in	0.008"	WSM10S	**450A99**
VNMG331-FM5 WSM20S	⅜ in	0.016"	WSM20S	**450C02**
VNMG331-FV5 WPV20	⅜ in	0.016"	WPV20	**450C66**
VNMG332-FV5 WPV20	⅜ in	0.031"	WPV20	**450C65**
VNMG332-MM5 WMP20S	⅜ in	0.031"	WMP20S	**450F71**
VNMG332-MM5 WSM10S	⅜ in	0.031"	WSM10S	**450D27**
Round				
N/A	0.3125 in	—	WK1	**30FP37**
RCGT2.6(2)-MN2 WNN10	0.315 in	0.157"	WNN10	**449X96**
RCGT43-MN2 WNN10	0.5 in	0.250"	WNN10	**449X98**
RCGX35E	0.375 in	—	WIS10	**30FP55**
RPGN32T01020 WIS10	0.375 in	0.177"	WIS10	**449W46**
RPGN43T01020 WIS10	0.5 in	0.236"	WIS10	**449W45**
Square				
SCGT3(2,5)1	⅜ in	0.0160"	WSM01	**53WE59**
SCGT3(2,5)1	⅜ in	0.0310"	WSM01	**53WE64**
SCGT3(2,5)1-FN2 WNN10	⅜ in	0.016"	WNN10	**449X73**
SCGT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WE65**
SCGT3(2.5)2	½ in	0.0310"	WSM01	**53WE71**
SCGT3(2.5)2	½ in	0.0310"	WSM20S	**53WE72**
SCGT3(2.5)2-FN2 WNN10	⅜ in	0.031"	WNN10	**449X54**
SCGT432	½ in	0.0310"	WPP20S	**53WE73**
SCGT432	⅜ in	0.0160"	WSM20S	**53WE61**
SCGT432	⅜ in	0.0310"	WPP20S	**53WE67**
SCGT432-MN2 WNN10	½ in	0.031"	WNN10	**449Y03**
SCGW3(2.5)1FS-9 WDN10	⅜ in	0.016"	WDN10	**449W66**
SCMT3(2.5)1	½ in	0.0310"	WSM20S	**53WF48**
SCMT3(2.5)1	½ in	0.0310"	WPP20S	**53WF50**
SCMT3(2.5)1	½ in	0.0470"	WSM30S	**53WF71**
SCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WE80**
SCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WF03**
SCMT3(2.5)1	⅜ in	0.0160"	WSM30S	**53WF04**
SCMT3(2.5)1	⅜ in	0.0310"	WMP20S	**53WF12**
SCMT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WF14**
SCMT3(2.5)1-FM6 WSM30S	⅜ in	0.016"	WSM30S	**449Z84**
SCMT3(2.5)2	½ in	0.0310"	WSM20S	**53WF53**
SCMT3(2.5)2	½ in	0.0310"	WPP20S	**53WF55**
SCMT3(2.5)2	⅜ in	0.0160"	WPP20S	**53WE82**
SCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53WE86**
SCMT3(2.5)2	⅜ in	0.0160"	WPP20S	**53WE88**
SCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53WF35**
SCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53WF36**
SCMT431	½ in	0.0310"	WSM30S	**53WF67**
SCMT431	⅜ in	0.0310"	WPP20S	**53WF16**

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ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Square (Cont.)				
SCMT432	½ in	0.0310"	WSM20S	**53WF66**
SCMT432	½ in	0.0470"	WSM20S	**53WF70**
SCMT432	⅜ in	0.0160"	WMP20S	**53WE89**
SCMT432	⅜ in	0.0310"	WSM20S	**53WF07**
SCMT432	⅜ in	0.0310"	WPP20S	**53WF09**
SCMT432-MM4 WMP20S	½ in	0.031"	WMP20S	**450C32**
SCMT433	½ in	0.0160"	WSM30S	**53WF44**
SNGA432T02020 WCK10	½ in	0.031"	WCK10	**450G18**
SNGA434T02020 WCK10	½ in	0.063"	WCK10	**450G21**
SNGN433T02020 WCK10	½ in	0.047"	WCK10	**450G23**
SNGN454T02020 WCK10	½ in	0.063"	WCK10	**450G29**
SNMG431-MM5 WSM20S	½ in	0.016"	WSM20S	**450D83**
SNMG432-MV5 WPV20	½ in	0.031"	WPV20	**450C81**
SNMG433-MM5 WSM30S	½ in	0.047"	WSM30S	**450D88**
SNMG543-RM5 WSM30S	⅝ in	0.047"	WSM30S	**450F37**
SNMG643-NRS WSM10S	¾ in	0.047"	WSM10S	**450A01**
SNMG644-RM5 WSM30S	¾ in	0.063"	WSM30S	**450F58**
SPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C23**
Triangle				
TCGT1.2(1.2)0.2-FM2 WSM21	5/32 in	0.004"	WSM21	**449Y58**
TCGT1.8(1.5)1	¼ in	0.0310"	WSM01	**53WJ07**
TCGT2(1.5)0.2	⅜ in	0.0160"	WSM01	**53WJ11**
TCGT2(1.5)0.2-FM2 WSM20S	¼ in	0.004"	WSM20S	**450F70**
TCGT2(1.5)0.2-MN2 WNN10	¼ in	0.004"	WNN10	**449X78**
TCGT2(1.5)0.5	⅜ in	0.0310"	WSM01	**53WJ14**
TCGT2(1.5)1	⅜ in	0.0160"	WSM20S	**53WJ10**
TCGT2(1.5)1-FN2 WNN10	¼ in	0.016"	WNN10	**449X60**
TCGT2(1.5)1-MN2 WNN10	¼ in	0.016"	WNN10	**449X39**
TCGT2(1.5)2	¼ in	0.0160"	WSM01	**53WJ03**
TCGT2(1.5)2	¼ in	0.0160"	WSM20S	**53WJ04**
TCGT3(2.5)0.5-FM2 WSM20S	⅜ in	0.008"	WSM20S	**449Y63**
TCGT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WJ13**
TCGT3(2.5)1-MN2 WNN10	⅜ in	0.016"	WNN10	**449X79**
TCGT3(2.5)2	¼ in	0.0160"	WSM01	**53WJ05**
TCGT3(2.5)2-MN2 WNN10	⅜ in	0.031"	WNN10	**449Y05**
TCMT1.8(1.5)0.5	⅜ in	0.0310"	WMP20S	**53WK47**
TCMT1.8(1.5)0.5	7/32 in	0.0080"	WSM20S	**53WJ20**
TCMT1.8(1.5)1	⅜ in	0.0470"	WMP20S	**53WK72**
TCMT1.8(1.5)1	⅜ in	0.0470"	WPP30S	**53WK79**
TCMT1.8(1.5)1	7/32 in	0.0160"	WSM20S	**53WJ24**
TCMT1.8(1.5)1	7/32 in	0.0160"	WSM20S	**53WJ31**
TCMT1.8(1.5)1	7/32 in	0.0160"	WSM30S	**53WJ36**
TCMT1.8(1.5)1	7/32 in	0.0160"	WPP20S	**53WJ39**
TCMT1.8(1.5)1	7/32 in	0.0310"	WPP20S	**53WJ49**
TCMT1.8(1.5)2	⅜ in	0.0310"	WMP20S	**53WK44**
TCMT1.8(1.5)2	7/32 in	0.0160"	WSM30S	**53WJ37**
TCMT1.8(1.5)2	7/32 in	0.0160"	WPP30S	**53WJ40**
TCMT1.8(1.5)2	7/32 in	0.0310"	WSM20S	**53WJ47**
TCMT1.8(1.5)2	7/32 in	0.0310"	WSM30S	**53WJ52**
TCMT1.8(1.5)2	7/32 in	0.0310"	WPP20S	**53WJ55**
TCMT2(1.5)0.5	¼ in	0.0080"	WSM20S	**53WJ59**
TCMT2(1.5)0.5	7/32 in	0.0310"	WSM20S	**53WJ42**
TCMT2(1.5)1	¼ in	0.0160"	WSM20S	**53WJ68**
TCMT2(1.5)1	¼ in	0.0160"	WSM20S	**53WJ76**
TCMT2(1.5)1	¼ in	0.0160"	WSM20S	**53WJ85**
TCMT2(1.5)1	¼ in	0.0160"	WPP20S	**53WJ88**
TCMT2(1.5)1	¼ in	0.0310"	WPP20S	**53WK04**
TCMT2(1.5)1	¼ in	0.0310"	WMP20S	**53WK07**
TCMT2(1.5)1	⅜ in	0.0310"	WPP20S	**53WK53**
TCMT2(1.5)1	7/32 in	0.0310"	WSM30S	**53WJ53**
TCMT2(1.5)1	7/32 in	0.0310"	WPP30S	**53WJ56**
TCMT2(1.5)2	¼ in	0.0160"	WMP20S	**53WJ63**
TCMT2(1.5)2	¼ in	0.0160"	WPP20S	**53WJ72**
TCMT2(1.5)2	¼ in	0.0160"	WPP30S	**53WJ89**
TCMT2(1.5)2	¼ in	0.0310"	WSM20S	**53WJ93**
TCMT2(1.5)2	¼ in	0.0310"	WSM20S	**53WK02**
TCMT2(1.5)2	⅜ in	0.0160"	WPP20S	**53WK33**
TCMT2(1.5)2	⅜ in	0.0310"	WPP20S	**53WK59**
TCMT2(1.5)2	⅜ in	0.0310"	WMP20S	**53WK65**
TCMT3(2.5)1	¼ in	0.0310"	WPP20S	**53WJ97**
TCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WK30**
TCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WK39**
TCMT3(2.5)1	⅜ in	0.0160"	WSM30S	**53WK40**
TCMT3(2.5)1	⅜ in	0.0160"	WPP20S	**53WK42**
TCMT3(2.5)1	⅜ in	0.0310"	WSM20S	**53WK49**
TCMT3(2.5)2	¼ in	0.0160"	WMP20S	**53WJ66**
TCMT3(2.5)2	¼ in	0.0160"	WPP20S	**53WJ78**
TCMT3(2.5)2	¼ in	0.0310"	WSM20S	**53WK08**
TCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53WK21**
TCMT3(2.5)2	⅜ in	0.0160"	WPP20S	**53WK25**
TCMT3(2.5)2	⅜ in	0.0160"	WMP20S	**53WK28**
TCMT3(2.5)2	⅜ in	0.0160"	WMP20S	**53WK37**
TCMT3(2.5)2	⅜ in	0.0160"	WPP30S	**53WK43**
TCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53WK57**
TCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53WK67**
TCMT3(2.5)2	⅜ in	0.0310"	WSM30S	**53WK68**
TCMT3(2.5)2	⅜ in	0.0470"	WSM30S	**53WK76**
TCMT3(2.5)2-FM6 WSM20S	⅜ in	0.031"	WSM20S	**449Z18**
TCMT3(2.5)3	¼ in	0.0160"	WSM30S	**53WJ86**
TCMT3(2.5)3	¼ in	0.0310"	WSM30S	**53WK09**
TCMT3(2.5)3	⅜ in	0.0310"	WPP30S	**53WK71**
TCMT3(2.5)3	⅜ in	0.0470"	WSM20S	**53WK75**
TCMT3(2.5)3	⅜ in	0.0470"	WPP20S	**53WK78**
TCMT432	7/32 in	0.0160"	WPP20S	**53WJ33**
TCMW2(1.5)2	⅜ in	0.0310"	WPP20S	**53WK70**
TNGA332T02020 WCK10	⅜ in	0.031"	WCK10	**450G33**
TNGA333T02020 WCK10	⅜ in	0.047"	WCK10	**450G34**
TNMG331-FM5 WMP20S	⅜ in	0.016"	WMP20S	**450A95**
TNMG331-MM5 WSM20S	⅜ in	0.016"	WSM20S	**450D25**
TNMG331-MS3 WSM01	⅜ in	0.016"	WSM01	**449X08**
TNMG331-MV5 WPV20	⅜ in	0.016"	WPV20	**450C70**
TNMG332-FM5 WSM20S	⅜ in	0.031"	WSM20S	**450A69**
TNMG332-MM5 WSM30S	⅜ in	0.031"	WSM30S	**450D26**
TNMG332-NMS WSM01	⅜ in	0.031"	WSM01	**450F94**
TNMG333-MM5 WSM30S	⅜ in	0.047"	WSM30S	**450D95**
TNMG431-MS3 WSM01	½ in	0.016"	WSM01	**449X13**
TNMG432-MS3 WSM10S	½ in	0.031"	WSM10S	**449X14**
TNMG432-RM5 WMP20S	½ in	0.031"	WMP20S	**450F62**
TNMG432-RM5 WSM30S	½ in	0.031"	WSM30S	**450F14**
TNMG433-RM5 WSM30S	½ in	0.047"	WSM30S	**450F45**
TPGT1.8(1.5)1	⅜ in	0.0310"	WSM01	**53VG54**
TPGT1.8(1.5)1 WSM01	7/32 in	0.016"	WSM01	**450G25**
TPGT2(1.5)1	¼ in	0.0160"	WSM20S	**53VG46**
TPGT2(1.5)1	¼ in	0.0310"	WSM20S	**53VG49**
TPGT2(1.5)2	¼ in	0.0160"	WSM01	**53VG45**
TPGT2(1.5)2	⅜ in	0.0160"	WSM20S	**53VG52**
TPGT3(2.5)1	¼ in	0.0310"	WSM01	**53VG48**
TPGT3(2.5)1	⅜ in	0.0310"	WSM20S	**53VG55**
TPGT3(2.5)2	⅜ in	0.0160"	WSM01	**53VG51**
TPGW2(1.5)1FS-1 WDN10	¼ in	0.016"	WDN10	**450C24**
TPGW3(2.5)2FS-1 WDN10	⅜ in	0.031"	WDN10	**450C58**
TPMT1.8(1.5)1	¼ in	0.0160"	WPP20S	**53VG70**
TPMT2(1.5)1	¼ in	0.0160"	WSM20S	**53VG67**
TPMT2(1.5)1	¼ in	0.0310"	WPP20S	**53VG73**
TPMT2(1.5)1-FP4 WPP10S	¼ in	0.016"	WPP10S	**450A55**
TPMT3(2.5)1	¼ in	0.0160"	WMP20S	**53VG66**
TPMT3(2.5)1	⅜ in	0.0160"	WMP20S	**53VG74**
TPMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53VG75**
TPMT3(2.5)1	⅜ in	0.0160"	WPP20S	**53VG77**
TPMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53WK31**
TPMT3(2.5)1	⅜ in	0.0310"	WSM20S	**53VG79**
TPMT3(2.5)1	⅜ in	0.0310"	WPP20S	**53VG80**
TPMT3(2.5)1-FP4 WPP10S	⅜ in	0.016"	WPP10S	**450A56**
TPMT3(2.5)2	¼ in	0.0160"	WSM20S	**53VG69**
Trigon				
WCGT1.8(1.5)0.5-FM2 WSM21	7/32 in	0.008"	WSM21	**449Y72**
WCGT1.8(1.5)1-MN2 WNN10	7/32 in	0.016"	WNN10	**449X31**
WCGT2(1.5)1-FN2 WNN10	¼ in	0.016"	WNN10	**449X69**
WCGT432-MN2 WNN10	½ in	0.031"	WNN10	**449X36**
WCMT1.8(1.5)0.5	¼ in	0.0160"	WPP20S	**53VK78**
WCMT2(1.5)0.5	¼ in	0.0080"	WSM20S	**53VK59**
WCMT2(1.5)0.5	¼ in	0.0080"	WSM20S	**53VK63**
WCMT2(1.5)1	¼ in	0.0080"	WSM30S	**53VK64**
WCMT2(1.5)1	¼ in	0.0160"	WSM20S	**53VK66**
WCMT2(1.5)1	¼ in	0.0160"	WSM20S	**53VK75**
WCMT2(1.5)1	⅜ in	0.0160"	WPP20S	**53VL05**
WCMT2(1.5)2	¼ in	0.0160"	WPP20S	**53VK70**
WCMT3(2.5)1	¼ in	0.0160"	WSM30S	**53VK76**
WCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53VK87**
WCMT3(2.5)1	⅜ in	0.0160"	WSM20S	**53VL02**
WCMT3(2.5)1	⅜ in	0.0310"	WSM20S	**53VL13**
WCMT3(2.5)1	⅜ in	0.0310"	WPP20S	**53VL14**
WCMT3(2.5)1	⅜ in	0.0310"	WPP20S	**53VL26**
WCMT3(2.5)2	½ in	0.0160"	WPP20S	**53VL31**
WCMT3(2.5)2	¼ in	0.0310"	WPP20S	**53VK82**
WCMT3(2.5)2	⅜ in	0.0160"	WSM20S	**53VK92**
WCMT3(2.5)2	⅜ in	0.0160"	WPP20S	**53VK93**
WCMT3(2.5)2	⅜ in	0.0160"	WSM30S	**53VL03**
WCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53VL08**
WCMT3(2.5)2	⅜ in	0.0310"	WPP20S	**53VL11**
WCMT3(2.5)2	⅜ in	0.0310"	WSM20S	**53VL23**
WCMT3(2.5)2	⅜ in	0.0310"	WPP30S	**53VL27**
WCMT431	½ in	0.0470"	WSM30S	**53VL43**
WCMT432	½ in	0.0310"	WSM20S	**53VL36**
WCMT432	½ in	0.0310"	WPP30S	**53VL40**
WCMT432	⅜ in	0.0310"	WSM30S	**53VL24**
WCMT433	½ in	0.0310"	WSM30S	**53VL37**
WCMT433	½ in	0.0310"	WPP20S	**53VL39**
WCMT433	½ in	0.0470"	WSM20S	**53VL42**
WCMT433	½ in	0.0470"	WPP30S	**53VL46**
WNGA432T02020 WCK10	½ in	0.031"	WCK10	**450G37**
WNMA431	½ in	0.0470"	WPP20S	**53VL45**
WNMG331-FM5 WSM10S	⅜ in	0.016"	WSM10S	**450C05**
WNMG332-MV5 WPV10	⅜ in	0.031"	WPV10	**450C84**
WNMG431-MM5 WSM30S	½ in	0.016"	WSM30S	**450C96**
WNMG432-FM5 WMP20S	½ in	0.031"	WMP20S	**450A70**
WNMG432-FV5 WPV20	½ in	0.031"	WPV20	**450C68**
WNMG432-MV5 WPV10	½ in	0.031"	WPV10	**450C87**
WNMG432-NM WSM20S	½ in	0.031"	WSM20S	**450A42**
WNMG432-NRS WSM10S	½ in	0.031"	WSM10S	**450A05**
WNMG433-MM5 WSM20S	½ in	0.047"	WSM20S	**450D01**
WNMG542-MM5 WSM30S	⅝ in	0.031"	WSM30S	**450D11**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

CNMG DNMG VNMG

KYOCERA

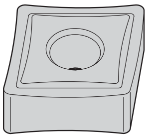
Turning Inserts

- Negative rake
- Clamp mount
- Priced each, sold in pkg. of 10 only

ISO Grade	Application	First Choice Grades
P	Steel	CA515, CA525, CA530
K	Cast Iron	CA310, CA315

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CNMG431KG-CA310	½ in	0.0156"	CA310	**53LD41**
CNMG431KG-CA315	½ in	0.0156"	CA315	**53LD42**
CNMG431PG-CA515	½ in	0.0156"	CA515	**53LD45**
CNMG431PG-CA525	½ in	0.0156"	CA525	**53LD46**
CNMG431PP-CA515	½ in	0.0156"	CA515	**53LD49**
CNMG431PQ-CA515	½ in	0.0156"	CA515	**53LD53**
CNMG431PQ-CA525	½ in	0.0156"	CA525	**53LD54**
CNMG432KG-CA310	½ in	0.0313"	CA310	**53LE11**
CNMG432KG-CA315	½ in	0.0313"	CA315	**53LE12**
CNMG432KH-CA310	½ in	0.0313"	CA310	**53LE14**
CNMG432KH-CA315	½ in	0.0313"	CA315	**53LE15**
CNMG432PG-CA515	½ in	0.0313"	CA515	**53LE18**
CNMG432PG-CA525	½ in	0.0313"	CA525	**53LE19**
CNMG432PH-CA315	½ in	0.0313"	CA315	**53LE26**
CNMG432PH-CA515	½ in	0.0313"	CA515	**53LE22**
CNMG432PP-CA515	½ in	0.0313"	CA515	**53LE29**
CNMG432PQ-CA515	½ in	0.0313"	CA515	**53LE33**
CNMG432PQ-CA525	½ in	0.0313"	CA525	**53LE34**
CNMG433KG-CA310	½ in	0.0469"	CA310	**53LE97**
CNMG433KG-CA315	½ in	0.0469"	CA315	**53LE98**
CNMG433KH-CA310	½ in	0.0469"	CA310	**53LF01**
CNMG433KH-CA315	½ in	0.0469"	CA315	**53LF02**
CNMG433PG-CA515	½ in	0.0469"	CA515	**53LF05**
CNMG433PG-CA525	½ in	0.0469"	CA525	**53LF06**
CNMG433PH-CA315	½ in	0.0469"	CA315	**53LF13**
CNMG433PH-CA515	½ in	0.0469"	CA515	**53LF09**
CNMG433PH-CA525	½ in	0.0469"	CA525	**53LF10**
CNMG433PH-CA530	½ in	0.0469"	CA530	**53LF11**
CNMG433PP-CA515	½ in	0.0469"	CA515	**53LF16**
CNMG433PQ-CA515	½ in	0.0469"	CA515	**53LF20**
CNMG433PQ-CA525	½ in	0.0469"	CA525	**53LF21**
CNMG434PG-CA515	½ in	0.0625"	CA515	**53LF39**
CNMG434PG-CA525	½ in	0.0625"	CA525	**53LF40**
CNMG434PH-CA515	½ in	0.0625"	CA515	**53LF43**
CNMG434PH-CA525	½ in	0.0625"	CA525	**53LF44**
CNMG434PH-CA530	½ in	0.0625"	CA530	**53LF45**
CNMG542PH-CA515	⅝ in	0.0313"	CA515	**53LF57**
CNMG542PH-CA525	⅝ in	0.0313"	CA525	**53LF58**
CNMG542PH-CA530	⅝ in	0.0313"	CA530	**53LF59**
CNMG543PH-CA315	⅝ in	0.0469"	CA315	**53LF85**
CNMG543PH-CA515	⅝ in	0.0469"	CA515	**53LF81**
CNMG543PH-CA525	⅝ in	0.0469"	CA525	**53LF82**
CNMG543PH-CA530	⅝ in	0.0469"	CA530	**53LF83**
CNMG544PH-CA315	⅝ in	0.0625"	CA315	**53LG08**
CNMG544PH-CA515	⅝ in	0.0625"	CA515	**53LG04**
CNMG544PH-CA525	⅝ in	0.0625"	CA525	**53LG05**
CNMG544PH-CA530	⅝ in	0.0625"	CA530	**53LG06**
CNMG642PH-CA515	¾ in	0.0313"	CA515	**53LG22**
CNMG642PH-CA525	¾ in	0.0313"	CA525	**53LG23**
CNMG642PH-CA530	¾ in	0.0313"	CA530	**53LG24**
CNMG643PH-CA515	¾ in	0.0469"	CA515	**53LG33**
CNMG643PH-CA525	¾ in	0.0469"	CA525	**53LG34**
CNMG643PH-CA530	¾ in	0.0469"	CA530	**53LG35**
CNMG644PH-CA515	¾ in	0.0625"	CA515	**53LG44**
CNMG644PH-CA525	¾ in	0.0625"	CA525	**53LG45**
CNMG644PH-CA530	¾ in	0.0625"	CA530	**53LG46**
CNMG646PH-CA515	¾ in	0.0938"	CA515	**53LG48**
CNMG646PH-CA525	¾ in	0.0938"	CA525	**53LG49**
CNMG646PH-CA530	¾ in	0.0938"	CA530	**53LG50**
CNMG4305PP-CA515	½ in	0.0079"	CA515	**53LD12**
DNMG431KG-CA310	½ in	0.0156"	CA310	**53LK58**
DNMG431KG-CA315	½ in	0.0156"	CA315	**53LK59**
DNMG431PG-CA515	½ in	0.0156"	CA515	**53LK62**
DNMG431PG-CA525	½ in	0.0156"	CA525	**53LK63**
DNMG431PP-CA515	½ in	0.0156"	CA515	**53LK66**
DNMG431PQ-CA515	½ in	0.0156"	CA515	**53LK70**
DNMG431PQ-CA525	½ in	0.0156"	CA525	**53LK71**
DNMG432KG-CA310	½ in	0.0313"	CA310	**53LL20**
DNMG432KG-CA315	½ in	0.0313"	CA315	**53LL21**
DNMG432KH-CA310	½ in	0.0313"	CA310	**53LL23**
DNMG432KH-CA315	½ in	0.0313"	CA315	**53LL24**
DNMG432PG-CA515	½ in	0.0313"	CA515	**53LL27**
DNMG432PG-CA525	½ in	0.0313"	CA525	**53LL28**
DNMG432PH-CA315	½ in	0.0313"	CA315	**53LL35**
DNMG432PH-CA515	½ in	0.0313"	CA515	**53LL31**
DNMG432PH-CA525	½ in	0.0313"	CA525	**53LL32**
DNMG432PH-CA530	½ in	0.0313"	CA530	**53LL33**
DNMG432PP-CA515	½ in	0.0313"	CA515	**53LL38**
DNMG432PQ-CA515	½ in	0.0313"	CA515	**53LL42**
DNMG432PQ-CA525	½ in	0.0313"	CA525	**53LL43**
DNMG433KG-CA310	½ in	0.0469"	CA310	**53LL94**
DNMG433KG-CA315	½ in	0.0469"	CA315	**53LL95**
DNMG433KH-CA310	½ in	0.0469"	CA310	**53LL97**
DNMG433KH-CA315	½ in	0.0469"	CA315	**53LL98**
DNMG433PG-CA515	½ in	0.0469"	CA515	**53LM02**
DNMG433PG-CA525	½ in	0.0469"	CA525	**53LM03**
DNMG433PH-CA315	½ in	0.0469"	CA315	**53LM10**
DNMG433PH-CA515	½ in	0.0469"	CA515	**53LM06**
DNMG433PH-CA525	½ in	0.0469"	CA525	**53LM07**
DNMG433PH-CA530	½ in	0.0469"	CA530	**53LM08**
DNMG433PP-CA515	½ in	0.0469"	CA515	**53LM13**
DNMG433PQ-CA515	½ in	0.0469"	CA515	**53LM17**
DNMG433PQ-CA525	½ in	0.0469"	CA525	**53LM18**
DNMG434PG-CA515	½ in	0.0625"	CA515	**53LM32**
DNMG434PG-CA525	½ in	0.0625"	CA525	**53LM33**
DNMG434PH-CA525	½ in	0.0625"	CA525	**53LM35**
DNMG434PH-CA530	½ in	0.0625"	CA530	**53LM36**
DNMG441PG-CA515	½ in	0.0156"	CA515	**53LM52**
DNMG441PG-CA525	½ in	0.0156"	CA525	**53LM53**
DNMG441PP-CA515	½ in	0.0156"	CA515	**53LM56**
DNMG441PQ-CA515	½ in	0.0156"	CA515	**53LM60**
DNMG441PQ-CA525	½ in	0.0156"	CA525	**53LM61**
DNMG442PG-CA515	½ in	0.0313"	CA515	**53LM90**
DNMG442PG-CA525	½ in	0.0313"	CA525	**53LM91**
DNMG442PH-CA515	½ in	0.0313"	CA515	**53LM94**
DNMG442PH-CA525	½ in	0.0313"	CA525	**53LM95**
DNMG442PH-CA530	½ in	0.0313"	CA530	**53LM96**
DNMG442PP-CA515	½ in	0.0313"	CA515	**53LM98**
DNMG442PQ-CA515	½ in	0.0313"	CA515	**53LN03**
DNMG442PQ-CA525	½ in	0.0313"	CA525	**53LN04**
DNMG443PG-CA515	½ in	0.0469"	CA515	**53LN35**
DNMG443PG-CA525	½ in	0.0469"	CA525	**53LN36**
DNMG443PH-CA515	½ in	0.0469"	CA515	**53LN39**
DNMG443PH-CA525	½ in	0.0469"	CA525	**53LN40**
DNMG443PH-CA530	½ in	0.0469"	CA530	**53LN41**
DNMG443PP-CA515	½ in	0.0469"	CA515	**53LN43**
DNMG443PQ-CA515	½ in	0.0469"	CA515	**53LN47**
DNMG443PQ-CA525	½ in	0.0469"	CA525	**53LN48**
DNMG444PG-CA515	½ in	0.0625"	CA515	**53LN59**
DNMG444PG-CA525	½ in	0.0625"	CA525	**53LN60**
DNMG444PH-CA515	½ in	0.0625"	CA515	**53LN63**
DNMG444PH-CA525	½ in	0.0625"	CA525	**53LN64**
DNMG444PH-CA530	½ in	0.0625"	CA530	**53LN65**
DNMG4305PP-CA515	½ in	0.0079"	CA515	**53LK29**
DNMG4405PP-CA515	½ in	0.0079"	CA515	**53LM38**
VNMG331PP-CA515	⅜ in	0.0156"	CA515	**53LZ49**
VNMG331PQ-CA515	⅜ in	0.0156"	CA515	**53LZ53**
VNMG331PQ-CA525	⅜ in	0.0156"	CA525	**53LZ54**
VNMG331VF-CA515	⅜ in	0.0156"	CA515	**53LZ57**
VNMG331VF-CA525	⅜ in	0.0156"	CA525	**53LZ58**
VNMG332PP-CA515	⅜ in	0.0313"	CA515	**53LZ73**
VNMG332PQ-CA515	⅜ in	0.0313"	CA515	**53LZ77**
VNMG332PQ-CA525	⅜ in	0.0313"	CA525	**53LZ78**
VNMG332VF-CA515	⅜ in	0.0313"	CA515	**53LZ81**
VNMG332VF-CA525	⅜ in	0.0313"	CA525	**53LZ82**
VNMG333PP-CA515	⅜ in	0.0469"	CA515	**53LZ89**
VNMG333PQ-CA515	⅜ in	0.0469"	CA515	**53LZ93**
VNMG333PQ-CA525	⅜ in	0.0469"	CA525	**53LZ94**
VNMG333VF-CA515	⅜ in	0.0469"	CA515	**53LZ97**
VNMG333VF-CA525	⅜ in	0.0469"	CA525	**53LZ98**
VNMG3305PP-CA515	⅜ in	0.0079"	CA515	**53LZ33**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards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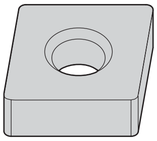
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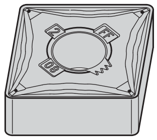
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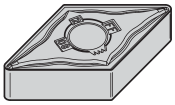
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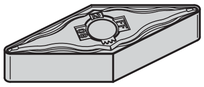

VNMG

WIDIA

Turning Inserts

- Negative rake
- Clamp mount
- Priced each, sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grades
P	Steel	WK20CT, WM25CT, WP15CT, WP25CT, WS10PT, WS25PT
M	Stainless Steel	WM25CT, WS10PT, WS25CT
K	Cast Iron	WK20CT, WP15CT, WP25CT, WS10PT, WS25PT
S	Super Alloy	WM25CT, WS10PT, WS25PT

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rhombic				
CNGP430	½ in	0.004"	WS10PT	**433W54**
CNGP431	½ in	0.016"	WS10PT	**433W56**
CNGP4305	½ in	0.008"	WS10PT	**433W55**
CNMA431	½ in	0.016"	WK20CT	**433T97**
CNMA432	½ in	0.031"	WK20CT	**433T98**
CNMA433	½ in	0.047"	WK20CT	**433T99**
CNMA434	½ in	0.063"	WK20CT	**433U01**
CNMA543	⅝ in	0.047"	WK20CT	**433U03**
CNMA544	⅝ in	0.063"	WK20CT	**433U04**
CNMG431FF	½ in	0.016"	WP15CT	**433P25**
CNMG431MR	½ in	0.016"	WP25CT	**433N22**
CNMG431MR	½ in	0.016"	WP15CT	**433R10**
CNMG431MS	½ in	0.016"	WS10PT	**433Y80**
CNMG431MS	½ in	0.016"	WS25PT	**433Y81**
CNMG431UM	½ in	0.016"	WM25CT	**433U78**
CNMG431UR	½ in	0.016"	WM25CT	**433K27**
CNMG431UR	½ in	0.016"	WP25CT	**433M78**
CNMG431UR	½ in	0.016"	WS10PT	**433W88**
CNMG431UR	½ in	0.016"	WS25PT	**433W89**
CNMG432FF	½ in	0.031"	WP15CT	**433P26**
CNMG432MR	½ in	0.031"	WP25CT	**433N23**
CNMG432MR	½ in	0.031"	WP15CT	**433R11**
CNMG432MS	½ in	0.031"	WS10PT	**433Y83**
CNMG432MS	½ in	0.031"	WS25PT	**433Y84**
CNMG432RH	½ in	0.031"	WP15CT	**433N97**
CNMG432RH	½ in	0.031"	WP25CT	**433R80**
CNMG432RH	½ in	0.031"	WK20CT	**433U35**
CNMG432UM	½ in	0.031"	WM25CT	**433U79**
CNMG432UR	½ in	0.031"	WM25CT	**433K28**
CNMG432UR	½ in	0.031"	WP25CT	**433M79**
CNMG432UR	½ in	0.031"	WS10PT	**433V99**
CNMG432UR	½ in	0.031"	WS25PT	**433W01**
CNMG433MR	½ in	0.047"	WP25CT	**433N24**
CNMG433MR	½ in	0.047"	WP15CT	**433R12**
CNMG433MS	½ in	0.047"	WS10PT	**433Y86**
CNMG433MS	½ in	0.047"	WS25PT	**433Y87**
CNMG433RH	½ in	0.047"	WP15CT	**433N98**
CNMG433RH	½ in	0.047"	WP25CT	**433R81**
CNMG433RH	½ in	0.047"	WK20CT	**433U36**
CNMG433UR	½ in	0.047"	WM25CT	**433K29**
CNMG433UR	½ in	0.047"	WP25CT	**433M80**
CNMG433UR	½ in	0.047"	WS10PT	**433W02**
CNMG433UR	½ in	0.047"	WS25PT	**433W03**
CNMG434MR	½ in	0.063"	WP25CT	**433Y08**
CNMG434MS	½ in	0.063"	WS10PT	**433Y89**
CNMG434RH	½ in	0.063"	WP25CT	**433R82**
CNMG434UR	½ in	0.063"	WM25CT	**433K30**
CNMG434UR	½ in	0.063"	WP25CT	**433M81**
CNMG434UR	½ in	0.063"	WS10PT	**433X84**
CNMG542MR	⅝ in	0.031"	WP25CT	**433N25**
CNMG542MR	⅝ in	0.031"	WP15CT	**433R14**
CNMG542MS	⅝ in	0.031"	WS10PT	**433Y92**
CNMG542MS	⅝ in	0.031"	WS25PT	**433Y93**
CNMG542RH	⅝ in	0.031"	WP25CT	**433R83**
CNMG542RH	⅝ in	0.031"	WK20CT	**433U38**
CNMG542UR	⅝ in	0.031"	WM25CT	**433K31**
CNMG542UR	⅝ in	0.031"	WP25CT	**433M82**
CNMG543MR	⅝ in	0.047"	WP25CT	**433N26**
CNMG543MR	⅝ in	0.047"	WP15CT	**433R15**
CNMG543MS	⅝ in	0.047"	WS10PT	**433Y95**
CNMG543MS	⅝ in	0.047"	WS25PT	**433Y96**
CNMG543RH	⅝ in	0.047"	WP15CT	**433P02**
CNMG543RH	⅝ in	0.047"	WP25CT	**433R84**
CNMG543RH	⅝ in	0.047"	WK20CT	**433U39**
CNMG543UR	⅝ in	0.047"	WM25CT	**433K32**
CNMG543UR	⅝ in	0.047"	WP25CT	**433M83**
CNMG543UR	⅝ in	0.047"	WS10PT	**433W90**
CNMG544MR	⅝ in	0.063"	WP25CT	**433N27**
CNMG544MR	⅝ in	0.063"	WP15CT	**433R16**
CNMG544RH	⅝ in	0.063"	WP25CT	**433R85**
CNMG544RH	⅝ in	0.063"	WK20CT	**433U40**
CNMG642MS	¾ in	0.031"	WS10PT	**433Y98**
CNMG642MS	¾ in	0.031"	WS25PT	**433Y99**
CNMG642RH	¾ in	0.031"	WP15CT	**433P04**
CNMG642RH	¾ in	0.031"	WP25CT	**433R86**
CNMG643MR	¾ in	0.047"	WP25CT	**433N28**
CNMG643MR	¾ in	0.047"	WP15CT	**433R17**
CNMG643MS	¾ in	0.047"	WS10PT	**433Z02**
CNMG643MS	¾ in	0.047"	WS25PT	**433Z03**
CNMG643RH	¾ in	0.047"	WP15CT	**433P05**
CNMG643RH	¾ in	0.047"	WP25CT	**433R87**
CNMG643RH	¾ in	0.047"	WK20CT	**433U42**
CNMG643UR	¾ in	0.047"	WM25CT	**433K34**
CNMG643UR	¾ in	0.047"	WP25CT	**433M85**
CNMG643UR	¾ in	0.047"	WS25PT	**433W16**
CNMG644MR	¾ in	0.063"	WP25CT	**433N31**
CNMG644MR	¾ in	0.063"	WP15CT	**433R18**
CNMG644MS	¾ in	0.063"	WS10PT	**433Z05**
CNMG644MS	¾ in	0.063"	WS25PT	**433Z06**
CNMG644RH	¾ in	0.063"	WP15CT	**433P06**
CNMG644RH	¾ in	0.063"	WP25CT	**433R88**
CNMG646RH	¾ in	0.094"	WP25CT	**433R89**
DNMG332FF	⅜ in	0.031"	WP15CT	**433P29**
DNMG332MR	⅜ in	0.031"	WP25CT	**433N32**
DNMG332MR	⅜ in	0.031"	WP15CT	**433R19**
DNMG332MS	⅜ in	0.031"	WS10PT	**433Z08**
DNMG332MS	⅜ in	0.031"	WS25PT	**433Z09**
DNMG431FF	½ in	0.016"	WP15CT	**433P30**
DNMG431MR	½ in	0.016"	WP25CT	**433N33**
DNMG431MR	½ in	0.016"	WP15CT	**433R20**
DNMG431MS	½ in	0.016"	WS10PT	**433Z11**
DNMG431MS	½ in	0.016"	WS25PT	**433Z12**
DNMG431UM	½ in	0.016"	WM25CT	**433U84**
DNMG432FF	½ in	0.031"	WP15CT	**433P31**
DNMG432MR	½ in	0.031"	WP25CT	**433N34**
DNMG432MR	½ in	0.031"	WP15CT	**433R21**
DNMG432MS	½ in	0.031"	WS10PT	**433Z14**
DNMG432MS	½ in	0.031"	WS25PT	**433Z15**
DNMG432RH	½ in	0.031"	WP25CT	**433R90**
DNMG432RH	½ in	0.031"	WK20CT	**433U44**
DNMG432UM	½ in	0.031"	WM25CT	**433U85**
DNMG432UR	½ in	0.031"	WM25CT	**433K37**
DNMG432UR	½ in	0.031"	WP25CT	**433M89**
DNMG432UR	½ in	0.031"	WS25PT	**433W94**
DNMG433MR	½ in	0.047"	WP25CT	**433N35**
DNMG433MR	½ in	0.047"	WP15CT	**433R22**
DNMG433MS	½ in	0.047"	WS10PT	**433Z17**
DNMG433MS	½ in	0.047"	WS25PT	**433Z18**
DNMG433UR	½ in	0.047"	WP25CT	**433M90**
DNMG433UR	½ in	0.047"	WS25PT	**433W96**
DNMG543RH	⅝ in	0.047"	WP15CT	**433P09**
DNMG543RH	⅝ in	0.047"	WP25CT	**433R95**
VNMG331FF	⅜ in	0.016"	WP15CT	**433P43**
VNMG331MS	⅜ in	0.016"	WS10PT	**433Z56**
VNMG331MS	⅜ in	0.016"	WS25PT	**433Z57**
VNMG332FF	⅜ in	0.031"	WP15CT	**433P44**
VNMG332MR	⅜ in	0.031"	WP25CT	**433N48**
VNMG332MR	⅜ in	0.031"	WP15CT	**433R35**
VNMG332MS	⅜ in	0.031"	WS10PT	**433Z59**
VNMG332MS	⅜ in	0.031"	WS25PT	**433Z60**
VNMG332RH	⅜ in	0.031"	WP25CT	**433T15**
VNMG332UR	⅜ in	0.031"	WM25CT	**433K56**
VNMG332UR	⅜ in	0.031"	WP25CT	**433N08**
VNMG431MS	½ in	0.016"	WS10PT	**433Z62**
VNMG431MS	½ in	0.016"	WS25PT	**433Z63**
VNMG432MS	½ in	0.031"	WS10PT	**433Z65**
VNMG432MS	½ in	0.031"	WS25PT	**433Z66**
VNMG432RH	½ in	0.031"	WP25CT	**433T16**
VNMG433RH	½ in	0.047"	WP15CT	**433P21**
VNMG433RH	½ in	0.047"	WP25CT	**433T17**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

WALTER

Grooving Tool Holder

35RG83

LEFT HAND ANSI No.	Item No.	RIGHT HAND ANSI No.	Item No.
For Use With GX Series Inserts			
G1011.1616L-2T21GX24	**35RG83**	—	—
For Use With SX Series Inserts			
G2012.08L-2T16SX-P	**35RF61**	G2012.08R-2T16SX-P	**35RF63**
G2012.10L-3T16SX-P	**35RF66**	G2012.10R-3T16SX-P	**35RF68**
G2012.10L-2T16SX-P	**35RF65**	G2012.10R-2T16SX-P	**35RF67**
G2012.12L-2T20SX-P	**35RF69**	G2012.12R-2T20SX-P	**35RF70**
G2012.1212L-3T16SX-P	**35RF46**	G2012.1212R-3T16SX-P	**35RF48**
G2012.1212L-2T16SX-P	**35RF45**	G2012.1212R-2T16SX-P	**35RF47**
G2012.16L-6T40SX-P	**35RF74**	G2012.16R-6T40SX-P	**35RF76**
G2012.16L-5T40SX-P	**35RF73**	G2012.16R-5T40SX-P	**35RF75**
G2012.1616L-3T16SX-P	**35RF50**	G2012.1616R-3T16SX-P	**35RF52**
G2012.1616L-2T16SX-P	**35RF49**	G2012.1616R-2T16SX-P	**35RF51**
G2012.2020L-2T20SX-P	**35RF53**	G2012.2020R-2T20SX-P	**35RF54**
G2012.2525L-6T40SX-P	**35RF58**	G2012.2525R-6T40SX-P	**35RF60**
G2012.2525L-5T40SX-P	**35RF57**	G2012.2525R-5T40SX-P	**35RF59**
G2042.32L-4T33SX-C	**35RG79**	G2042.32R-4T33SX-C	**35RG82**

WALTER

Indexable Grooving Inserts

35RF80

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grade
K	Cast Iron	WAK20, WKP13S, WKP23S, WKP33S, WPP23
N	Non Ferrous	WK1
M	Stainless	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43
P	Steel	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43, WKP13S, WKP23S , WKP33S, WPP23
S	Super Alloy	WSM13S, WSM23S, WSM33, WSM33S, WSM43S, WSP43

ANSI No.	Style	W	Grade	Item No.
Left Hand				
GX24-2E300L6-CE4	GX24	3.00mm	WKP23S	**35RG41**
FX4.1-E410L6-CE4 WSM33	Pressed	4.10mm	WSM33	**30ET81**
GX16-1E200L6-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EU53**
GX16-1E200L6-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EU59**
GX16-1E200L6-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EU65**
GX16-2E300L6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EW44**
GX16-2E300L6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EW48**
GX24-2E300L6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EX97**
GX24-2E300L6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY02**
GX24-2E300L6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY07**
GX24-3E400L6-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ08**
GX24-3E400L6-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ13**
GX24-2E300L6-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EX98**
GX24-2E300L6-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY04**
Neutral				
GX09-1E200N02-GD3	GX09	2.00mm	WKP23S	**35RG28**
GX09-1E250N02-GD3	GX09	2.50mm	WKP23S	**35RG29**
GX09-2E300N03-GD3	GX09	3.00mm	WKP23S	**35RG30**
GX16-1E200N02-GD3	GX16	2.00mm	WKP23S	**35RG32**
GX16-1E200N02-UA4	GX16	2.00mm	WKP13S	**35RG56**
GX16-1E200N02-UD4	GX16	2.00mm	WKP23S	**35RF80**
GX16-1E200N02-UD4	GX16	2.00mm	WSM33S	**35RF81**
GX16-1E200N02-UF4	GX16	2.00mm	WKP23S	**35RF88**
GX16-1E200N10-RD4	GX16	2.00mm	WKP23S	**35RG47**
GX16-1E250N02-GD3	GX16	2.50mm	WKP23S	**35RG33**
GX16-1E250N02-UF4	GX16	2.50mm	WKP23S	**35RF89**
GX16-2E300N03-GD3	GX16	3.00mm	WKP23S	**35RG34**
GX16-2E300N03-UA4	GX16	3.00mm	WKP33S	**35RG57**
GX16-2E300N03-UA4	GX16	3.00mm	WKP13S	**35RG58**
GX16-2E300N03-UD4	GX16	3.00mm	WKP23S	**35RF82**
GX16-2E300N03-UD4	GX16	3.00mm	WSM33S	**35RF83**
GX16-2E300N03-UF4	GX16	3.00mm	WKP23S	**35RF90**
GX16-2E300N15-RD4	GX16	3.00mm	WSM23S	**35RG89**
GX16-2E300N15-RD4	GX16	3.00mm	WSM33S	**35RG90**
GX24-3E400N20-RD4	GX24	4.00mm	WKP23S	**35RG50**
GX16-3E400N04-GD3	GX16	4.00mm	WKP23S	**35RG35**
GX16-3E400N04-UA4	GX16	4.00mm	WKP33S	**35RG59**
GX16-3E400N04-UA4	GX16	4.00mm	WKP13S	**35RG60**
GX16-3E400N04-UD4	GX16	4.00mm	WKP23S	**35RF84**
GX16-3E400N04-UD4	GX16	4.00mm	WSM33S	**35RF85**
GX16-3E400N04-UF4	GX16	4.00mm	WKP23S	**35RF91**
GX16-3E500N04-GD3	GX16	5.00mm	WKP23S	**35RG36**
GX16-3E500N04-UD4	GX16	5.00mm	WKP23S	**35RF86**
GX16-3E500N04-UD4	GX16	5.00mm	WSM33S	**35RF87**
GX16-3E500N04-UF4	GX16	5.00mm	WKP23S	**35RF92**
GX16-4E600N05-UA4	GX16	6.00mm	WKP13S	**35RG64**
GX16-4E600N05-UF4	GX16	6.00mm	WKP23S	**35RF93**
GX24-2E300N02-CE4	GX24	3.00mm	WKP23S	**35RG42**
GX24-2E300N03-GD3	GX24	3.00mm	WKP23S	**35RG37**
GX24-2E300N03-UA4	GX24	3.00mm	WKP33S	**35RG65**
GX24-2E300N03-UA4	GX24	3.00mm	WKP13S	**35RG66**
GX24-2E300N03-UD4	GX24	3.00mm	WKP23S	**35RG04**
GX24-2E300N03-UD4	GX24	3.00mm	WKP13S	**35RG14**
GX24-2E300N03-UD4	GX24	3.00mm	WKP33S	**35RG21**
GX24-2E300N03-UF4	GX24	3.00mm	WKP23S	**35RF94**
GX24-2E300N15-RD4	GX24	3.00mm	WKP23S	**35RG48**
GX24-2E318N03-UD4	GX24	3.18mm	WKP23S	**35RG05**
GX24-2E318N16-RD4	GX24	3.18mm	WKP23S	**35RG49**
GX24-3E400N03-CE4	GX24	4.00mm	WKP23S	**35RG44**
GX24-3E400N04-GD3	GX24	4.00mm	WKP23S	**35RG38**
GX24-3E400N04-UA4	GX24	4.00mm	WKP33S	**35RG67**
GX24-3E400N04-UA4	GX24	4.00mm	WKP13S	**35RG68**
GX24-3E400N04-UD4	GX24	4.00mm	WKP23S	**35RG06**
GX24-3E400N04-UD4	GX24	4.00mm	WKP13S	**35RG15**
GX24-3E400N04-UD4	GX24	4.00mm	WKP33S	**35RG22**
GX24-3E400N04-UF4	GX24	4.00mm	WKP23S	**35RF95**
GX24-3E400N08-UD4	GX24	4.00mm	WKP23S	**35RG07**
GX24-3E400N08-UD4	GX24	4.00mm	WKP13S	**35RG16**
GX24-3E400N08-UD4	GX24	4.00mm	WKP33S	**35RG23**
GX24-3E400N08-UF4	GX24	4.00mm	WKP23S	**35RF96**
GX24-3E475N04-UF4	GX24	4.75mm	WKP23S	**35RF97**
GX24-3E500N03-CE4	GX24	5.00mm	WKP23S	**35RG45**
GX24-3E500N04-GD3	GX24	5.00mm	WKP23S	**35RG39**
GX24-3E500N04-UA4	GX24	5.00mm	WKP33S	**35RG69**
GX24-3E500N04-UA4	GX24	5.00mm	WKP13S	**35RG70**
GX24-3E500N04-UD4	GX24	5.00mm	WKP23S	**35RG08**
GX24-3E500N04-UD4	GX24	5.00mm	WKP13S	**35RG17**
GX24-3E500N04-UD4	GX24	5.00mm	WKP33S	**35RG24**
GX24-3E500N04-UF4	GX24	5.00mm	WKP23S	**35RF98**
GX24-3E500N08-UD4	GX24	5.00mm	WKP23S	**35RG09**
GX24-3E500N08-UD4	GX24	5.00mm	WKP13S	**35RG18**
GX24-3E500N08-UD4	GX24	5.00mm	WKP33S	**35RG25**
GX24-3E500N08-UF4	GX24	5.00mm	WKP23S	**35RF99**
GX24-3E500N25-RD4	GX24	5.00mm	WKP23S	**35RG52**
GX24-4E600N03-CE4	GX24	6.00mm	WKP23S	**35RG46**
GX24-4E600N05-GD3	GX24	6.00mm	WKP23S	**35RG40**
GX24-4E600N05-UA4	GX24	6.00mm	WKP33S	**35RG71**
GX24-4E600N05-UA4	GX24	6.00mm	WKP13S	**35RG72**
GX24-4E600N05-UD4	GX24	6.00mm	WKP23S	**35RG10**
GX24-4E600N05-UD4	GX24	6.00mm	WKP13S	**35RG19**
GX24-4E600N05-UD4	GX24	6.00mm	WKP33S	**35RG26**
GX24-4E600N05-UF4	GX24	6.00mm	WKP23S	**35RG01**
GX24-4E600N08-UD4	GX24	6.00mm	WKP23S	**35RG11**
GX24-4E600N08-UD4	GX24	6.00mm	WKP13S	**35RG20**
GX24-4E600N08-UD4	GX24	6.00mm	WKP33S	**35RG27**
GX24-4E600N08-UF4	GX24	6.00mm	WKP23S	**35RG02**
GX24-4E600N30-RD4	GX24	6.00mm	WKP23S	**35RG53**
GX24-4E635N05-UF4	GX24	6.35mm	WKP23S	**35RG03**
GX24-4E635N32-RD4	GX24	6.35mm	WKP23S	**35RG54**
GX30-5E800N08-UD4	GX30	8.00mm	WKP23S	**35RG12**
GX30-5E800N12-UD4	GX30	8.00mm	WKP23S	**35RG13**
GX30-5E800N40-RD4	GX30	8.00mm	WKP23S	**35RG55**
GX24-2E300N03-UD6 WSM23S	Pressed	3.00mm	WSM23S	**30EY45**
GX24-4E635N32-RD4 WSM33S	Pressed	¼ in	WSM33S	**30FA99**
GX24-4E635N05-UF4 WSM33S	Pressed	¼ in	WSM33S	**30FA97**
GX24-4E600N05-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30FA80**
GX16-1E200N02-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EU87**
GX24-3E400N08-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ58**
GX24-2E318N03-UF4 WSM33S	Pressed	⅛ in	WSM33S	**30EY83**
GX16-3E400N04-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EX39**
GX24-2E300N030-GD3 WSM33	Pressed	3.00mm	WSM33	**30EY28**
GX24-4E600N30-RD4 WSM33S	Pressed	6.00mm	WSM33S	**30FA94**
GX24-3E400N040-UA4 WAK20	Pressed	4.00mm	WAK20	**30EZ34**
GX24-3E500N040-UA4 WAK20	Pressed	5.00mm	WAK20	**30EZ99**
GX24-4R300N-RK8 WK1	Pressed	6.00mm	WK1	**30FC01**
GX24-2E300N020-CE4 WPP23	Pressed	3.00mm	WPP23	**30EY12**
FX3.1-E310N015-CE4 WPP23	Pressed	3.10mm	WPP23	**30ET62**
GX24-2E300N15-RF8 WSM13S	Pressed	3.00mm	WSM13S	**30EY59**
GX24-3E400N20-RF8 WSM13S	Pressed	4.00mm	WSM13S	**30EZ65**
GX24-3E500N25-RF8 WSM13S	Pressed	5.00mm	WSM13S	**30FA34**
GX24-4E600N30-RF8 WSM13S	Pressed	6.00mm	WSM13S	**30FA95**
GX16-1E200N02-GD6 WSM23S	Pressed	2.00mm	WSM23S	**30EU98**
GX16-1E200N10-RD4 WSM23S	Pressed	2.00mm	WSM23S	**30EV12**
GX16-2E300N03-GD6 WSM23S	Pressed	3.00mm	WSM23S	**30EW88**
GX24-2E300N03-GD6 WSM23S	Pressed	3.00mm	WSM23S	**30EY41**

CONTINUED

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

CONTINUED

WALTER

Indexable Grooving Inserts

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ANSI No.	Style	W	Grade	Item No.
Neutral (Cont.)				
GX24-2E300N15-RF8 WSM23S	Pressed	3.00mm	WSM23S	**30EY61**
GX16-3E400N04-GD6 WSM23S	Pressed	4.00mm	WSM23S	**30EX31**
GX24-3E400N04-GD6 WSM23S	Pressed	4.00mm	WSM23S	**30EZ44**
GX24-3E400N04-UD6 WSM23S	Pressed	4.00mm	WSM23S	**30EZ48**
GX24-3E400N20-RF8 WSM23S	Pressed	4.00mm	WSM23S	**30EZ67**
GX24-3E500N04-GD6 WSM23S	Pressed	5.00mm	WSM23S	**30FA10**
GX24-3E500N04-UD6 WSM23S	Pressed	5.00mm	WSM23S	**30FA14**
GX24-3E500N25-RF8 WSM23S	Pressed	5.00mm	WSM23S	**30FA35**
GX24-4E600N05-GD6 WSM23S	Pressed	6.00mm	WSM23S	**30FA72**
GX24-4E600N05-UD6 WSM23S	Pressed	6.00mm	WSM23S	**30FA76**
GX24-4E600N30-RF8 WSM23S	Pressed	6.00mm	WSM23S	**30FA96**
GX16-1E200N020-CE4 WSM33	Pressed	2.00mm	WSM33	**30EU70**
GX16-1E200N020-CF5 WSM33	Pressed	2.00mm	WSM33	**30EU72**
GX16-1E200N020-CF6 WSM33	Pressed	2.00mm	WSM33	**30EU75**
GX16-1E200N020-UF4 WSM33	Pressed	2.00mm	WSM33	**30EU85**
GX16-2E300N020-CF6 WSM33	Pressed	3.00mm	WSM33	**30EW63**
GX16-2E300N030-UF4 WSM33	Pressed	3.00mm	WSM33	**30EW82**
GX24-2E300N020-CE4 WSM33	Pressed	3.00mm	WSM33	**30EY13**
GX24-2E300N020-CF6 WSM33	Pressed	3.00mm	WSM33	**30EY17**
GX24-2E300N030-UF4 WSM33	Pressed	3.00mm	WSM33	**30EY35**
FX3.1-E310N015-CE4 WSM33	Pressed	3.10mm	WSM33	**30ET63**
GX24-3E400N040-UF4 WSM33	Pressed	4.00mm	WSM33	**30EZ38**
FX4.1-E410N020-CE4 WSM33	Pressed	4.10mm	WSM33	**30ET88**
GX16-0E150N01-CF6 WSM33S	Pressed	1.50mm	WSM33S	**30EU49**
GX09-1E200N02-GD3 WSM33S	Pressed	2.00mm	WSM33S	**30EU21**
GX09-1E200N02-UF4 WSM33S	Pressed	2.00mm	WSM33S	**30EU25**
GX16-1E200N02-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EU89**
GX16-1E200N02-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EU91**
GX16-1E200N02-GD3 WSM33S	Pressed	2.00mm	WSM33S	**30EU94**
GX16-1E200N02-GD6 WSM33S	Pressed	2.00mm	WSM33S	**30EV01**
GX16-1E200N02-UD6 WSM33S	Pressed	2.00mm	WSM33S	**30EV05**
GX16-1E200N02-UF4 WSM33S	Pressed	2.00mm	WSM33S	**30EV07**
GX16-1E200N10-RD4 WSM33S	Pressed	2.00mm	WSM33S	**30EV13**
GX16-1E239N12-RD4 WSM33S	Pressed	3/32 in	WSM33S	**30EV33**
GX09-1E250N02-GD3 WSM33S	Pressed	2.50mm	WSM33S	**30EU29**
GX16-1E250N02-CE4 WSM33S	Pressed	2.50mm	WSM33S	**30EV66**
GX16-1E250N02-CF5 WSM33S	Pressed	2.50mm	WSM33S	**30EV68**
GX16-1E250N02-CF6 WSM33S	Pressed	2.50mm	WSM33S	**30EV71**
GX16-1E250N02-GD3 WSM33S	Pressed	2.50mm	WSM33S	**30EV75**
GX16-1E250N02-UF4 WSM33S	Pressed	2.50mm	WSM33S	**30EV87**
GX09-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EU38**
GX09-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EU42**
GX16-2E300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EW65**
GX16-2E300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EW67**
GX16-2E300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EW70**
GX16-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EW84**
GX16-2E300N03-GD6 WSM33S	Pressed	3.00mm	WSM33S	**30EW90**
GX16-2E300N03-UD6 WSM33S	Pressed	3.00mm	WSM33S	**30EW94**
GX16-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EW96**
GX24-2E300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY19**
GX24-2E300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY21**
GX24-2E300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY23**
GX24-2E300N03-GD3 WSM33S	Pressed	3.00mm	WSM33S	**30EY37**
GX24-2E300N03-GD6 WSM33S	Pressed	3.00mm	WSM33S	**30EY43**
GX24-2E300N03-UD6 WSM33S	Pressed	3.00mm	WSM33S	**30EY47**
GX24-2E300N03-UF4 WSM33S	Pressed	3.00mm	WSM33S	**30EY49**
GX24-2E300N15-RD4 WSM33S	Pressed	3.00mm	WSM33S	**30EY58**
GX24-2F300N02-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY96**
GX24-2F300N02-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY98**
GX24-2F300N02-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EZ02**
GX24-2E318N16-RD4 WSM33S	Pressed	1/8 in	WSM33S	**30EY85**
GX16-3E400N04-GD3 WSM33S	Pressed	4.00mm	WSM33S	**30EX27**
GX16-3E400N04-GD6 WSM33S	Pressed	4.00mm	WSM33S	**30EX33**
GX16-3E400N04-UD6 WSM33S	Pressed	4.00mm	WSM33S	**30EX37**
GX24-3E400N02-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ20**
GX24-3E400N03-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ27**
GX24-3E400N04-GD3 WSM33S	Pressed	4.00mm	WSM33S	**30EZ40**
GX24-3E400N04-GD6 WSM33S	Pressed	4.00mm	WSM33S	**30EZ46**
GX24-3E400N04-UD6 WSM33S	Pressed	4.00mm	WSM33S	**30EZ50**
GX24-3E400N04-UF4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ52**
GX24-3E400N20-RD4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ64**
GX24-3F400N02-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30FA38**
GX24-3F400N03-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30FA44**
GX24-3E475N04-UF4 WSM33S	Pressed	3/16 in	WSM33S	**30EZ80**
GX24-3E475N24-RD4 WSM33S	Pressed	3/16 in	WSM33S	**30EZ82**
GX16-3E500N04-GD3 WSM33S	Pressed	5.00mm	WSM33S	**30EX53**
GX16-3E500N04-GD6 WSM33S	Pressed	5.00mm	WSM33S	**30EX59**
GX16-3E500N04-UD6 WSM33S	Pressed	5.00mm	WSM33S	**30EX63**
GX16-3E500N04-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30EX65**
GX24-3E500N03-CE4 WSM33S	Pressed	5.00mm	WSM33S	**30EZ88**
GX24-3E500N03-CF5 WSM33S	Pressed	5.00mm	WSM33S	**30EZ91**
GX24-3E500N04-GD3 WSM33S	Pressed	5.00mm	WSM33S	**30FA06**
GX24-3E500N04-GD6 WSM33S	Pressed	5.00mm	WSM33S	**30FA12**
GX24-3E500N04-UD6 WSM33S	Pressed	5.00mm	WSM33S	**30FA16**
GX24-3E500N04-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30FA18**
GX24-3E500N08-UF4 WSM33S	Pressed	5.00mm	WSM33S	**30FA24**
GX24-3E500N25-RD4 WSM33S	Pressed	5.00mm	WSM33S	**30FA33**
GX24-3F500N03-CF5 WSM33S	Pressed	5.00mm	WSM33S	**30FA49**
GX16-4E600N05-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30EX91**
GX24-4E600N03-CE4 WSM33S	Pressed	6.00mm	WSM33S	**30FA56**
GX24-4E600N05-GD3 WSM33S	Pressed	6.00mm	WSM33S	**30FA68**
GX24-4E600N05-GD6 WSM33S	Pressed	6.00mm	WSM33S	**30FA74**
GX24-4E600N05-UD6 WSM33S	Pressed	6.00mm	WSM33S	**30FA78**
GX24-4E600N08-UF4 WSM33S	Pressed	6.00mm	WSM33S	**30FA86**
GX09-1E200N02-GD3 WSM43S	Pressed	2.00mm	WSM43S	**30EU23**
GX09-1E200N02-UF4 WSM43S	Pressed	2.00mm	WSM43S	**30EU27**
GX16-1E200N02-CE4 WSM43S	Pressed	2.00mm	WSM43S	**30EU88**
GX16-1E200N02-CF5 WSM43S	Pressed	2.00mm	WSM43S	**30EU90**
GX16-1E200N02-CF6 WSM43S	Pressed	2.00mm	WSM43S	**30EU92**
GX16-1E200N02-GD3 WSM43S	Pressed	2.00mm	WSM43S	**30EU96**
GX16-1E200N02-UF4 WSM43S	Pressed	2.00mm	WSM43S	**30EV09**
GX09-1E250N02-GD3 WSM43S	Pressed	2.50mm	WSM43S	**30EU31**
GX16-1E250N02-CE4 WSM43S	Pressed	2.50mm	WSM43S	**30EV67**
GX16-1E250N02-CF5 WSM43S	Pressed	2.50mm	WSM43S	**30EV69**
GX16-1E250N02-UF4 WSM43S	Pressed	2.50mm	WSM43S	**30EV89**
GX09-2E300N03-GD3 WSM43S	Pressed	3.00mm	WSM43S	**30EU40**
GX09-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EU44**
GX16-2E300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EW66**
GX16-2E300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EW68**
GX16-2E300N02-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EW72**
GX16-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EW98**
GX24-2E300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY20**
GX24-2E300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY22**
GX24-2E300N02-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EY25**
GX24-2E300N03-GD3 WSM43S	Pressed	3.00mm	WSM43S	**30EY39**
GX24-2E300N03-UF4 WSM43S	Pressed	3.00mm	WSM43S	**30EY51**
GX24-2F300N02-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY97**
GX24-2F300N02-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EZ01**
GX24-3E400N02-CF5 WSM43S	Pressed	4.00mm	WSM43S	**30EZ22**
GX24-3E400N03-CE4 WSM43S	Pressed	4.00mm	WSM43S	**30EZ28**
GX24-3E400N04-GD3 WSM43S	Pressed	4.00mm	WSM43S	**30EZ42**
GX24-3E400N04-UF4 WSM43S	Pressed	4.00mm	WSM43S	**30EZ54**
GX24-3F400N03-CE4 WSM43S	Pressed	4.00mm	WSM43S	**30FA45**
GX24-3E500N03-CE4 WSM43S	Pressed	5.00mm	WSM43S	**30EZ89**
GX24-3E500N03-CF5 WSM43S	Pressed	5.00mm	WSM43S	**30EZ93**
GX24-3E500N04-UF4 WSM43S	Pressed	5.00mm	WSM43S	**30FA20**
GX24-4E600N03-CE4 WSM43S	Pressed	6.00mm	WSM43S	**30FA57**
GX24-4E600N05-UF4 WSM43S	Pressed	6.00mm	WSM43S	**30FA82**
GX16-1E200N020-UF4 WSP43	Pressed	2.00mm	WSP43	**30EU86**
FX3.1-E310N015-CE4 WSP43	Pressed	3.10mm	WSP43	**30ET64**
FX4.1-E410N020-CE4 WSP43	Pressed	4.10mm	WSP43	**30ET89**
FX4.1-E410N020-CE6 WSP43	Pressed	4.10mm	WSP43	**30ET92**
Right Hand				
GX24-2E300R6-CE4	GX24	3.00mm	WKP23S	**35RG43**
GX16-2E300R6-CF6 WSM33	Pressed	3.00mm	WSM33	**30EX11**
GX16-0E150R10-CF6 WSM33S	Pressed	1.50mm	WSM33S	**30EU50**
GX16-1E200R6-CE4 WSM33S	Pressed	2.00mm	WSM33S	**30EV15**
GX16-1E200R6-CF5 WSM33S	Pressed	2.00mm	WSM33S	**30EV21**
GX16-1E200R6-CF6 WSM33S	Pressed	2.00mm	WSM33S	**30EV27**
GX16-1E250R6-CE4 WSM33S	Pressed	2.50mm	WSM33S	**30EV92**
GX16-1E250R6-CF5 WSM33S	Pressed	2.50mm	WSM33S	**30EV97**
GX16-1E250R6-CF6 WSM33S	Pressed	2.50mm	WSM33S	**30EW04**
GX16-2E300R6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EX02**
GX16-2E300R6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EX06**
GX16-2E300R6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EX12**
GX24-2E300R6-CE4 WSM33S	Pressed	3.00mm	WSM33S	**30EY65**
GX24-2E300R6-CF5 WSM33S	Pressed	3.00mm	WSM33S	**30EY71**
GX24-2E300R6-CF6 WSM33S	Pressed	3.00mm	WSM33S	**30EY78**
GX24-3E400R6-CE4 WSM33S	Pressed	4.00mm	WSM33S	**30EZ71**
GX24-3E400R6-CF5 WSM33S	Pressed	4.00mm	WSM33S	**30EZ75**
GX16-1E200R6-CE4 WSM43S	Pressed	2.00mm	WSM43S	**30EV17**
GX16-1E200R6-CF5 WSM43S	Pressed	2.00mm	WSM43S	**30EV23**
GX16-1E200R6-CF6 WSM43S	Pressed	2.00mm	WSM43S	**30EV29**
GX24-2E300R6-CE4 WSM43S	Pressed	3.00mm	WSM43S	**30EY67**
GX24-2E300R6-CF5 WSM43S	Pressed	3.00mm	WSM43S	**30EY73**
GX24-2E300R6-CF6 WSM43S	Pressed	3.00mm	WSM43S	**30EY80**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

ISO Grade	Application	First Choice Grade
K	Cast Iron	WAK15, WKP25S, WKP35S,
N	Non Ferrous	WK10, WMG40, WXN15,
M	Stainless	WSM35, WSM35S, WSP45S
P	Steel	WKP25S, WKP35S, WSP45S,
S	Super Alloy	WSM35, WSM35S

Octagonal
ODHT

Rectangle
LNHU

Rhombic
ZDGT

Square
SPMT

Triangular
P

WALTER

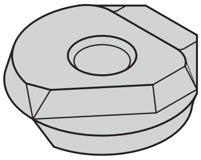
Milling Inserts

- Sold in pkg. of 10 only

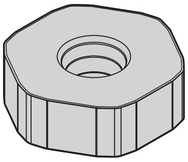
Note: For additional sizes, go to Grainger.com®.

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Ballnose				
XDMT2506159R-F55 WKP25S	0.984 in	0.625"	WKP25S	**44T728**
Octagon				
ODHT0504ZZN-F57 WKP35S	½ in	0.031"	WKP35S	**44U165**
ODHT0504ZZN-G88 WK10	½ in	0.031"	WK10	**44U170**
ODHW0605ZZN-A57 WAK15	⅝ in	0.031"	WAK15	**44U207**
ODMT0504ZZN-D57 WKP35S	½ in	0.031"	WKP35S	**44U224**
ODMT0605ZZN-D57 WKP25S	⅝ in	0.031"	WKP25S	**44U236**
Parallelogram				
ADGT10T3PER-D67	—	0.031"	WSP45S	**35RE10**
ADGT10T3PER-D67 WKP35S	0.285 in	0.031"	WKP35S	**44R313**
ADGT10T3PER-G77	—	0.031"	WSP45S	**35RE11**
ADGT10T330R-D67	—	0.118"	WSP45S	**35RE09**
ADGT0803PER-D51	—	0.016"	WSP45S	**35RE05**
ADGT0803PER-D51 WKP25S	0.266 in	0.016"	WKP25S	**44R274**
ADGT0803PER-D51 WKP35S	0.266 in	0.016"	WKP35S	**44R276**
ADGT0803PER-F56	—	0.016"	WSP45S	**35RE07**
ADGT1204PER-D51	—	0.031"	WSP45S	**35RE16**
ADGT1204PER-D51 WKP25S	0.331 in	0.031"	WKP25S	**44R331**
ADGT1204PER-D51 WKP35S	0.331 in	0.031"	WKP35S	**44R333**
ADGT1204PER-D56	—	0.031"	WSP45S	**35RE17**
ADGT1204PER-D56 WKP25S	0.331 in	0.031"	WKP25S	**44R337**
ADGT1204PER-D56 WKP35S	0.331 in	0.031"	WKP35S	**44R339**
ADGT1204PER-D67	—	0.031"	WSP45S	**35RE18**
ADGT1204PER-D67 WKP35S	0.331 in	0.031"	WKP35S	**44R343**
ADGT1204PER-F56	—	0.031"	WSP45S	**35RE19**
ADGT1204PER-G77	—	0.031"	WSP45S	**35RE20**
ADGT1606PER-D51	—	0.031"	WSP45S	**35RE29**
ADGT1606PER-D51 WKP25S	0.425 in	0.031"	WKP25S	**44R368**
ADGT1606PER-D51 WKP35S	0.425 in	0.031"	WKP35S	**44R370**
ADGT1606PER-D56	—	0.031"	WSP45S	**35RE30**
ADGT1606PER-D56 WKP25S	0.425 in	0.031"	WKP25S	**44R374**
ADGT1606PER-D56 WKP35S	0.425 in	0.031"	WKP35S	**44R376**
ADGT1606PER-D67	—	0.031"	WSP45S	**35RE31**
ADGT1606PER-D67 WKP35S	0.425 in	0.031"	WKP35S	**44R380**
ADGT1606PER-F56	—	0.031"	WSP45S	**35RE32**
ADGT1606PER-G77	—	0.031"	WSP45S	**35RE33**
ADGT1807PER-D51 WKP35S	0.571 in	0.047"	WKP35S	**44R390**
ADGT1807PER-D56	—	0.047"	WSP45S	**35RE35**
ADGT1807PER-D56 WKP35S	0.571 in	0.047"	WKP35S	**44R395**
ADGT120404R-F56	—	0.016"	WSP45S	**35RE12**
ADGT120416R-D67	—	0.063"	WSP45S	**35RE13**
ADGT120430R-F56	—	0.118"	WSP45S	**35RE14**
ADGT120440R-F56	—	0.157"	WSP45S	**35RE15**
ADGT160612R-F56	—	0.047"	WSP45S	**35RE21**
ADGT160616R-D67	—	0.063"	WSP45S	**35RE22**
ADGT160616R-F56	—	0.063"	WSP45S	**35RE23**
ADGT160620R-F56	—	0.079"	WSP45S	**35RE24**
ADGT160632R-F56	—	0.126"	WSP45S	**35RE26**
ADGT160640R-F56	—	0.157"	WSP45S	**35RE27**
ADHT10T3PER-G88 WK10	0.285 in	0.031"	WK10	**44R403**
ADHT10T3PER-G88 WXN15	0.285 in	0.031"	WXN15	**44R404**
ADHT0803PEL-G88 WXN15	0.266 in	0.016"	WXN15	**44R399**
ADHT0803PER-G88 WK10	0.266 in	0.016"	WK10	**44R401**
ADHT0803PER-G88 WXN15	0.266 in	0.016"	WXN15	**44R402**
ADHT1204PEL-G88 WXN15	0.331 in	0.031"	WXN15	**44R422**
ADHT1204PER-G88 WK10	0.331 in	0.031"	WK10	**44R423**
ADHT1204PER-G88 WXN15	0.331 in	0.031"	WXN15	**44R424**
ADHT1606PEL-G88 WXN15	0.425 in	0.031"	WXN15	**44R442**
ADHT1606PER-G88 WK10	0.425 in	0.031"	WK10	**44R443**
ADHT1606PER-G88 WXN15	0.425 in	0.031"	WXN15	**44R444**
ADHT120416L-G88 WXN15	0.331 in	0.063"	WXN15	**44R406**
ADHT120416R-G88 WK10	0.331 in	0.063"	WK10	**44R407**
ADHT120416R-G88 WXN15	0.331 in	0.063"	WXN15	**44R408**
ADHT120430L-G88 WXN15	0.331 in	0.118"	WXN15	**44R414**
ADHT120430R-G88 WK10	0.331 in	0.118"	WK10	**44R415**
ADHT120430R-G88 WXN15	0.331 in	0.118"	WXN15	**44R416**
ADHT120440L-G88 WXN15	0.331 in	0.157"	WXN15	**44R418**
ADHT120440R-G88 WK10	0.331 in	0.157"	WK10	**44R419**
ADHT160616L-G88 WXN15	0.425 in	0.063"	WXN15	**44R426**
ADHT160616R-G88 WK10	0.425 in	0.063"	WK10	**44R427**
ADHT160616R-G88 WXN15	0.425 in	0.063"	WXN15	**44R428**
ADHT160630R-G88 WK10	0.425 in	0.118"	WK10	**44R435**
ADHT160640R-G88 WK10	0.425 in	0.157"	WK10	**44R439**
ADKT10T3PER-F56	—	0.031"	WSP45S	**35RD37**
ADKT10T3PER-F56 WKP25S	0.285 in	0.031"	WKP25S	**44R456**
ADKT10T3PER-F56 WKP35S	0.285 in	0.031"	WKP35S	**44R458**
ADKT0803PEL-F56	—	0.016"	WSP45S	**35RD35**
ADKT0803PEL-F56 WKP35S	0.266 in	0.016"	WKP35S	**44R446**
ADKT0803PER-F56	—	0.016"	WSP45S	**35RD36**
ADKT0803PER-F56 WAK15	0.266 in	0.016"	WAK15	**44R448**
ADKT0803PER-F56 WKP25S	0.266 in	0.016"	WKP25S	**44R450**
ADKT0803PER-F56 WKP35S	0.266 in	0.016"	WKP35S	**44R452**
ADKT1204PEL-F56	—	0.031"	WSP45S	**35RD38**
ADKT1204PEL-F56 WKP35S	0.331 in	0.031"	WKP35S	**44R462**
ADKT1204PER-F56	—	0.031"	WSP45S	**35RD39**
ADKT1204PER-F56 WAK15	0.331 in	0.031"	WAK15	**44R464**
ADKT1204PER-F56 WKP25S	0.331 in	0.031"	WKP25S	**44R466**
ADKT1204PER-F56 WKP35S	0.331 in	0.031"	WKP35S	**44R468**
ADKT1606PEL-F56	—	0.031"	WSP45S	**35RD40**
ADKT1606PEL-F56 WKP35S	0.425 in	0.031"	WKP35S	**44R471**
ADKT1606PER-F56	—	0.031"	WSP45S	**35RD41**
ADKT1606PER-F56 WAK15	0.425 in	0.031"	WAK15	**44R473**
ADKT1606PER-F56 WKP25S	0.425 in	0.031"	WKP25S	**44R475**
ADKT1606PER-F56 WKP35S	0.425 in	0.031"	WKP35S	**44R477**
ADMT10T308R-F56	—	0.031"	WSP45S	**35RE46**
ADMT10T308R-F56 WKP35S	0.285 in	0.031"	WKP35S	**44R539**
ADMT080302R-F56	—	0.008"	WSP45S	**35RE36**
ADMT080302R-F56 WKP35S	0.266 in	0.008"	WKP35S	**44R480**
ADMT080304L-F56	—	0.016"	WSP45S	**35RE37**
ADMT080304L-F56 WKP35S	0.266 in	0.016"	WKP35S	**44R485**
ADMT080304R-D56	—	0.016"	WSP45S	**35RE38**
ADMT080304R-D56 WAK15	0.266 in	0.016"	WAK15	**44R487**
ADMT080304R-D56 WKP25S	0.266 in	0.016"	WKP25S	**44R490**
ADMT080304R-D56 WKP35S	0.266 in	0.016"	WKP35S	**44R492**
ADMT080304R-F56	—	0.016"	WSP45S	**35RE39**
ADMT080304R-F56 WAK15	0.266 in	0.016"	WAK15	**44R494**
ADMT080304R-F56 WKP25S	0.266 in	0.016"	WKP25S	**44R497**
ADMT080304R-F56 WKP35S	0.266 in	0.016"	WKP35S	**44R499**
ADMT080304R-G56 WKP35S	0.266 in	0.016"	WKP35S	**44R506**
ADMT080308L-F56	—	0.031"	WSP45S	**35RE40**
ADMT080308L-F56 WKP35S	0.266 in	0.031"	WKP35S	**44R512**
ADMT080308R-F56	—	0.031"	WSP45S	**35RE41**
ADMT080308R-F56 WKP35S	0.266 in	0.031"	WKP35S	**44R515**
ADMT080312R-F56	—	0.047"	WSP45S	**35RE42**
ADMT080312R-F56 WKP35S	0.266 in	0.047"	WKP35S	**44R520**
ADMT080316R-F56	—	0.063"	WSP45S	**35RE43**
ADMT080316R-F56 WKP35S	0.266 in	0.063"	WKP35S	**44R524**
ADMT120404R-F56	—	0.016"	WSP45S	**35RE53**
ADMT120408R-D56 WKP35S	0.331 in	0.031"	WKP35S	**44R595**
ADMT160608R-F56 WKP25S	0.425 in	0.031"	WKP25S	**44R671**
ADMT160608R-G56 WKP35S	0.425 in	0.031"	WKP35S	**44R679**
ADMT160612R-F56	—	0.047"	WSP45S	**35RE68**
XDMT16T3095R-F55	—	0.375"	WSP45S	**35RD21**
Rectangle				
LNHU090420R-L55T WSM35S	0.3540 in	0.016"	WSM35S	**44R832**
LNHU130608R-L55T WSM35S	0.5120 in	0.031"	WSM35S	**44R860**
LNHU130632R-L55T WSP45S	0.5120 in	0.126"	WSP45S	**44R874**
Rhombic				
LNGX130708R-L55 WKP25S	0.4330 in	0.031"	WKP25S	**44R752**
LNGX130708R-L88 WK10	0.4330 in	0.031"	WK10	**44R757**
LNHU090412R-L55T WSP45S	0.3540 in	0.016"	WSP45S	**44R831**
LNHX070204-F57T WKP25S	0.2750 in	0.016"	WKP25S	**44R891**
LPMT15T308R-D51 WKP25S	⅜ in	0.031"	WKP25S	**44T595**
LPMT150412R-D51 WKP35S	½ in	0.047"	WKP35S	**44T587**
ZDGT150404R-K85 WK10	0.5910 in	0.016"	WK10	**44T762**
Square				
SDMW09T3AEN-A57 WKP25S	⅜ in	0.020"	WKP25S	**44T527**
SDMW09T3AEN-A57 WKP35S	⅜ in	0.020"	WKP35S	**44T529**
SNGX1205ANN-F57	½ in	Chamfer	WSP45S	**35RD51**
SNGX1205ANN-F57 WKP35S	½ in	0.059"	WKP35S	**44T957**
SNGX1205ZNN-F67 WKP35S	½ in	0.047"	WKP35S	**44U001**
SNHX1205ANN-K88 WK10	½ in	0.059"	WK10	**44U023**
SNHX1205ANN-K88 WXN15	½ in	0.059"	WXN15	**44U024**
SNMX1205ANN-F57 WKP35S	½ in	0.059"	WKP35S	**44U068**
SNMX120512-F57 WKP35S	½ in	0.047"	WKP35S	**44U038**
SPMT120408-D51 WKP35S	½ in	0.031"	WKP35S	**44T448**
Triangle				
P26335R14	⅜ in	0.047"	WSP45S	**35RD70**
P26335R14 WKP35S	⅜ in	0.047"	WKP35S	**44T615**
P26339R25	0.5120 in	0.079"	WSP45S	**35RD77**
P26379-R14	⅜ in	0.047"	WSP45S	**35RD79**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards



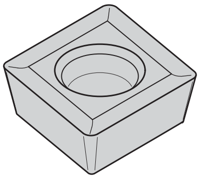
Ballnose



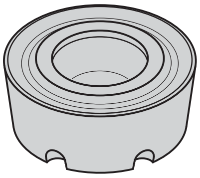
Hexagon

Parallelogram

Rectangle

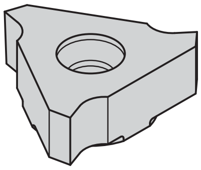


Rhombic

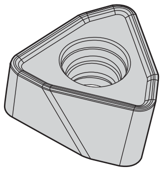


Round

Square



Triangle



Trigon

WIDIA Milling Inserts

- Sold in pkg. of 10 only

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grade
K	Cast Iron	THM, TN2505, TN2510, TN6505, TN6510, TN6520, TN6525, TN6540, TN7535, WK15CM, WK25YM, WP25PM, WP35CM,
H	Hardened	TN2505, TN2510, TN2525,
N	Non Ferrous	THM, THM-U, TN6501, WDN00U, WDN10U, WN25PM,
M	Stainless	TN450, TN6525, TN6540, TN7525, TN7535, TTM08, WP25PM, WP35CM, WP40PM, WU35PM
P	Steel	TN2505, TN2510, TN2525, TN450, TN6505, TN6525, TN6540, TN6540, TN7525, TN7535, TTM08, WP25PM, WP35CM, WP40PM, WU35PM
S	Super Alloy	THM, TN6540, WP25PM, WP40PM, WU35PM

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Ballnose				
M270BF10	10.00mm	0.197"	TN2505	**444R58**
M270BF12	12.00mm	0.236"	TN2505	**444R60**
M270BF16	16.00mm	0.315"	TN2505	**444R62**
M270BF20	20.00mm	0.394"	TN2505	**444R64**
M270BF25	25.00mm	0.492"	TN2505	**444R66**
M270BF32	32.00mm	0.630"	TN2505	**444R68**
M270BF0375	0.375 in	0.188"	TN2505	**444T64**
M270BF0750	0.750 in	0.375"	TN2505	**444T87**
M270BF1000	1.000 in	0.500"	TN6540	**444V60**
M270BR10	10.00mm	0.197"	TN7525	**444R42**
M270BR10	10.00mm	0.197"	TN7535	**444R43**
M270BR12	12.00mm	0.236"	TN7535	**444R46**
M270BR16	16.00mm	0.315"	TN7525	**444R48**
M270BR16	16.00mm	0.315"	TN7535	**444T63**
M270BR20	20.00mm	0.394"	TN7525	**444R50**
M270BR20	20.00mm	0.394"	TN7535	**444R51**
M270BR25	25.00mm	0.492"	TN7525	**444R53**
M270BR25	25.00mm	0.492"	TN7535	**444R54**
M270BR32	32.00mm	0.630"	TN7525	**444R56**
Hexagon				
HNEC535ANSN	⅝ in	0.047"	WK25YM	**444Y11**
HNGJ535ANENLD	⅝ in	0.047"	TN6540	**444U32**
HNGJ535ANFNLDJ	⅝ in	0.047"	THM-U	**444U77**
HNGJ535ANSNGD	⅝ in	0.047"	TN6525	**444U78**
HNGJ535ANSNHD	⅝ in	0.047"	WS40PM	**444Z29**
HNGJ0704ANENLD	½ in	0.047"	WS40PM	**444Z32**
HNGJ0704ANFNLDJ	½ in	0.047"	TN6501	**444V20**
HNGJ0704ANFNLDJ	½ in	0.047"	THM-U	**444V19**
HNPJ535ANSNGD	⅝ in	0.047"	WP40PM	**444X03**
HNPJ535ANSNGD	⅝ in	0.047"	WP35CM	**444X67**
HNPJ535ANSNHD	⅝ in	0.047"	WP40PM	**444X04**
HNPJ535ANSNHD	⅝ in	0.047"	WS40PM	**444Z27**
HNPJ0704ANSNGD	½ in	0.047"	TN6540	**444V37**
HNPJ0704ANSNGD	½ in	0.047"	WS40PM	**444Z33**
HNPJ0704ANSNHD	½ in	0.047"	WP35CM	**444X54**
HPGT06T3DZERGD3W	0.4385 in	0.039"	WP40PM	**444X82**
HPGT225DZENGD	0.4321 in	0.039"	TN6525	**444U23**
HPGT225DZFRLDAL	0.4332 in	0.035"	THM	**444T78**
HPPT225DZENGD	0.4320 in	0.039"	WS40PM	**444Z38**
XNGJ535ANSNGD3W	⅝ in	0.063"	TN6540	**444U34**
XNGJ535ANSNGD3W	⅝ in	0.063"	WS40PM	**444Z25**
XNGJ535ANSNGD3W	⅝ in	0.063"	WP40PM	**444X74**
XNGJ0704ANENLD3W	½ in	0.051"	WP40PM	**444X57**
XNGJ0704ANENLD3W	½ in	0.051"	TN6540	**444V30**
XNGJ0704ANFNLDJ3W	½ in	0.051"	THM-U	**444V35**
Parallelogram				
XDCT1101ERML	0.272 in	0.016"	WP40PM	**444X09**
XDCT1101RPCD	0.272 in	0.016"	WDN10U	**444W22**
XDCT1702ERML	0.378 in	0.031"	WP40PM	**444Y46**
XDCT1702RALP	0.378 in	0.031"	WN25PM	**444Y79**
XDCT1708ERML	0.378 in	0.125"	WS40PM	**444Z67**
XDCT1708RALP	0.378 in	0.125"	WN25PM	**444Y61**
XDCT1710ERML	0.377 in	0.157"	WS40PM	**444Z68**
XDPT1102SRMH	0.272 in	0.031"	WP40PM	**444W97**
XDPT1102SRMM	0.272 in	0.031"	WP25PM	**444W17**
XDPT1102SRMM	0.272 in	0.031"	WU35PM	**444W15**
XDPT1102SRMM	0.272 in	0.031"	WP35CM	**444W16**
XDPT1102SRMM	0.272 in	0.031"	WP40PM	**444W96**
XDPT1108SRMM	0.271 in	0.122"	WK15CM	**444W24**
XDPT1702SRMH	0.378 in	0.031"	WP40PM	**444Y53**
XDPT1708SRMM	0.394 in	0.125"	WS40PM	**444Z47**
XDPT1710SRMM	0.377 in	0.157"	WS40PM	**444Z61**

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Rectangle				
EDR100031E1W4	0.250 in	0.031"	WDN00U	**444Z83**
SDR102	0.380 in	0.125"	WDN00U	**444Z82**
SDR100031E0W4	0.380 in	0.031"	WDN00U	**444Z78**
XNGU1501ERML	0.394 in	0.016"	WU35PM	**444X48**
XNGU1502ERML	0.394 in	0.032"	WS40PM	**444Z46**
XNPU1002SRMM	0.260 in	0.031"	WK15PM	**444Z69**
XNPU1502SRMM	0.394 in	0.032"	WP40PM	**444X23**
XNPU1504SRMM	0.394 in	0.063"	WS40PM	**444Z44**
Rhombic				
CPNT120408T	½ in	0.032"	TTM08	**444T29**
MDHW120408	½ in	0.032"	WP25PM	**444Y10**
MDHX09T308	⅜ in	0.032"	WP40PM	**444Y01**
Round				
RCMT1606M0TX	⅝ in	0.315"	WK15CM	**444W59**
RDMT0802M0T	0.3150 in	0.157"	TN7525	**444R26**
RDMT0802M0T	0.3150 in	0.157"	TN7535	**444T08**
RDMT1003M0	0.3937 in	0.197"	THM	**444R29**
RDMW1605M0TX	⅝ in	0.315"	TN6540	**444U68**
RDPT1204M0SMMX	0.4720 in	0.236"	TN6540	**444V74**
RDPT1204M0SMMX	0.4720 in	0.236"	TN7535	**444V75**
RNGJ10T3M0EML	0.3937 in	0.197"	WP25PM	**444V76**
RNGJ64EML	¾ in	0.374"	WP25PM	**444Y89**
RNGJ85SMM	1 in	0.492"	WP40PM	**444Y83**
RNGJ1204M0SMM	0.4724 in	0.236"	WP35CM	**444V69**
RNGJ1605M0EML	⅝ in	0.315"	WS40PM	**444Z58**
RNPJ10T3M0SMM	0.3937 in	0.197"	WP35CM	**444V82**
RNPJ1204M0SMH	0.4724 in	0.236"	WP25PM	**444V89**
RNPJ1605M0SMM	⅝ in	0.315"	WP25PM	**444V92**
Square				
123506602	½ in	—	WP35CM	**444X99**
SDEX432FRALP	½ in	0.031"	THM-U	**444V97**
SDMT43PDRMH	½ in	0.047"	TN7525	**444T50**
SDMT54PDRML	⅝ in	0.047"	WK15CM	**444W54**
SDMX432RMM	½ in	0.031"	TN6525	**444V02**
SDMX432RMM	½ in	0.031"	TN6540	**444V03**
SDMX432RMM	½ in	0.031"	TN7525	**444V04**
SDMX433RMH	½ in	0.047"	TN6520	**444V18**
SDMX434RMM	½ in	0.063"	TN6520	**444V52**
SDMX438RMM	½ in	0.126"	TN7535	**444V58**
SDMX543RMM	⅝ in	0.047"	TN6540	**444U94**
SDMX544RMH	⅝ in	0.063"	WK15CM	**444Z06**
SNKT435AZER20	½ in	—	TN6540	**444U25**
SNKT435AZR31	½ in	—	TN7525	**444R87**
SNMT435AZR31	½ in	—	TN6525	**444U28**
SNMT535AZR31	⅝ in	—	TN7535	**444R91**
XNKT435AZER11	½ in	0.051"	WK15CM	**444W45**
Triangle				
TCAX1103ZZ18	¼ in	—	TTM08	**444R72**
TNAX1604ZZ26	⅜ in	—	THM	**444R74**
TNAX1604ZZ41	⅜ in	—	THM	**444R78**
Trigon				
WOEJ080412SRMH	0.3069 in	0.048"	TN6525	**444V47**
WOEJ120712SRMH	0.4720 in	0.050"	WP40PM	**444W93**
WOEJ120712SRMR	0.4720 in	0.050"	WS40PM	**444Z53**

For more information on Turning Inserts ANSI Standards, see grainger.com/cuttingtoolansistandards

Parallelogram

Pentagon

Rectangle

Round

Square

Trigon

KYOCERA

Milling Inserts

- Sold in pkg. of 10 z

Note: For additional sizes, go to Grainger.com®.

ISO Grade	Application	First Choice Grade
K	Cast Iron	PR1210
H	Hardened	PR1525
N	Non Ferrous	PDL025, KW10, KPD230, KPD001, GW25,
M	Stainless	PR1535, PR1230, PR1225, CA2425, CA2325,
P	Steel	TN100M, PR1525, PR1230, PR1225, CA2425, CA2325
S	Super Alloy	PR1535, PR1210, KW10, KPD230, KPD001, GW25, CA6535,

ANSI No.	Inscribed Circle	Nose Radius	Grade	Item No.
Parallelogram				
APET1604PDFRKW10	0.375 in	0.039"	KW10	**487X86**
APET160416KW10	0.375 in	0.062"	KW10	**487X84**
APET160431KW10	0.375 in	0.125"	KW10	**487X85**
APKT1604PDERV PR1225	0.375 in	0.031"	PR1225	**53CE56**
APMT250608ERNB3PR1210	0.625 in	0.031"	PR1210	**487X15**
APMT250608ERNB3PR1230	0.625 in	0.031"	PR1230	**487X70**
APMT250608ERNB4PR1210	0.625 in	0.031"	PR1210	**487X16**
APMT250608ERNB4PR1230	0.625 in	0.031"	PR1230	**487X71**
APMT250616ERNB3PPR1210	0.625 in	0.063"	PR1210	**487X18**
APMT250616ERNB3PR1210	0.625 in	0.063"	PR1210	**487X17**
APMT250616ERNB3PR1230	0.625 in	0.063"	PR1230	**487X72**
APMT250616ERNB4PPR1210	0.625 in	0.063"	PR1210	**487X20**
APMT250616ERNB4PR1210	0.625 in	0.063"	PR1210	**487X19**
APMT250616ERNB4PR1230	0.625 in	0.063"	PR1230	**487X73**
APMT250640ERNB3PR1230	0.625 in	0.157"	PR1230	**487X74**
APMT250640ERNB4PR1230	0.625 in	0.157"	PR1230	**487X75**
BDGT11T302FRJAGW25	0.264 in	0.008"	GW25	**487W99**
BDGT11T304FRJAGW25	0.264 in	0.016"	GW25	**487X01**
BDGT11T304FRJAPDL025	0.264 in	0.016"	PDL025	**487Z97**
BDGT11T308FRJAGW25	0.264 in	0.031"	GW25	**487X05**
BDGT11T308FRJAPDL025	0.264 in	0.031"	PDL025	**487Z98**
BDGT170404FRJAPDL025	0.378 in	0.016"	PDL025	**487Z99**
BDGT170408FRJAGW25	0.378 in	0.031"	GW25	**487X04**
BDGT170416FRJAGW25	0.378 in	0.063"	GW25	**487X09**
BDGT170420FRJAGW25	0.378 in	0.079"	GW25	**487X02**
BDGT170420FRJAPDL025	0.378 in	0.079"	PDL025	**488A01**
BDGT170424FRJAGW25	0.378 in	0.094"	GW25	**487X10**
BDGT170431FRJAGW25	0.378 in	0.122"	GW25	**487X11**
BDMT11T302ERJSPR1225	0.264 in	0.008"	PR1225	**487X43**
BDMT11T302ERJTPR1225	0.264 in	0.008"	PR1225	**487X44**
BDMT11T302FRKPD001	0.264 in	0.008"	KPD001	**487X03**
BDMT11T304ERJSCA6535	0.264 in	0.016"	CA6535	**487Y61**
BDMT11T304ERJSPR1225	0.264 in	0.016"	PR1225	**487X45**
BDMT11T304ERJSPR1535	0.264 in	0.016"	PR1535	**487Y47**
BDMT11T304ERJTCA6535	0.264 in	0.016"	CA6535	**487Y64**
BDMT11T304ERJTPR1210	0.264 in	0.016"	PR1210	**487X21**
BDMT11T304ERJTPR1225	0.264 in	0.016"	PR1225	**487X46**
BDMT11T304ERJTPR1535	0.264 in	0.016"	PR1535	**487Y44**
BDMT11T304ERJTTN100M	0.264 in	0.016"	TN100M	**487Y14**
BDMT11T304FRKPD001	0.264 in	0.016"	KPD001	**487X06**
BDMT11T308ERJSCA6535	0.264 in	0.031"	CA6535	**487Y62**
BDMT11T308ERJSPR1225	0.264 in	0.031"	PR1225	**487X47**
BDMT11T308ERJSPR1535	0.264 in	0.031"	PR1535	**487Y42**
BDMT11T308ERJTCA6535	0.264 in	0.031"	CA6535	**487Y65**
BDMT11T308ERJTPR1210	0.264 in	0.031"	PR1210	**487X22**
BDMT11T308ERJTPR1225	0.264 in	0.031"	PR1225	**487X48**
BDMT11T308ERJTPR1535	0.264 in	0.031"	PR1535	**487Y45**
BDMT11T308ERJTTN100M	0.264 in	0.031"	TN100M	**487Y15**
BDMT11T308ERN2PR1210	0.264 in	0.031"	PR1210	**487X78**
BDMT11T308ERN2PR1225	0.264 in	0.031"	PR1225	**487X49**
BDMT11T308ERN2PR1230	0.264 in	0.031"	PR1230	**487Y08**
BDMT11T308ERN2PR1535	0.264 in	0.031"	PR1535	**487Z69**
BDMT11T308ERN3PR1210	0.264 in	0.031"	PR1210	**487X79**
BDMT11T308ERN3PR1225	0.264 in	0.031"	PR1225	**487X50**
BDMT11T308ERN3PR1230	0.264 in	0.031"	PR1230	**487Y09**
BDMT11T308ERN3PR1535	0.264 in	0.031"	PR1535	**487Z70**
BDMT11T312ERJTPR1210	0.264 in	0.047"	PR1210	**487X23**
BDMT11T312ERJTPR1225	0.264 in	0.047"	PR1225	**487X51**
BDMT11T316ERJTCA6535	0.264 in	0.063"	CA6535	**487Y66**
BDMT11T316ERJTPR1210	0.264 in	0.063"	PR1210	**487X24**
BDMT11T316ERJTPR1225	0.264 in	0.063"	PR1225	**487X52**
BDMT11T316ERJTPR1535	0.264 in	0.063"	PR1535	**487Y46**
BDMT11T320ERJTPR1225	0.264 in	0.079"	PR1225	**487X53**
BDMT11T324ERJTPR1225	0.264 in	0.094"	PR1225	**487X54**
BDMT11T324ERJTPR1535	0.264 in	0.094"	PR1535	**487Y79**
BDMT11T331ERJTCA6535	0.264 in	0.122"	CA6535	**487Y82**
BDMT11T331ERJTPR1225	0.264 in	0.122"	PR1225	**487X55**
BDMT11T331ERJTPR1535	0.264 in	0.122"	PR1535	**487Y80**
BDMT070302ERJSPR1225	0.181 in	0.008"	PR1225	**487X32**
BDMT070302ERJTPR1225	0.181 in	0.008"	PR1225	**487X33**
BDMT070304ERJSPR1225	0.181 in	0.016"	PR1225	**487X34**
BDMT070304ERJSPR1535	0.181 in	0.016"	PR1535	**487Z64**
BDMT070304ERJTPR1210	0.181 in	0.016"	PR1210	**487X88**
BDMT070304ERJTPR1225	0.181 in	0.016"	PR1225	**487X35**
BDMT070304ERJTPR1535	0.181 in	0.016"	PR1535	**487Z66**
BDMT070308ERJSCA6535	0.181 in	0.031"	CA6535	**487Z77**
BDMT070308ERJSPR1225	0.181 in	0.031"	PR1225	**487X36**
BDMT070308ERJSPR1535	0.181 in	0.031"	PR1535	**487Z65**
BDMT070308ERJTCA6535	0.181 in	0.031"	CA6535	**487Z78**
BDMT070308ERJTPR1210	0.181 in	0.031"	PR1210	**487X89**
BDMT070308ERJTPR1225	0.181 in	0.031"	PR1225	**487X37**
BDMT110302ERJSPR1225	0.248 in	0.008"	PR1225	**487X38**
BDMT110302ERJTPR1225	0.248 in	0.008"	PR1225	**487X39**
BDMT110304ERJSPR1225	0.248 in	0.016"	PR1225	**487X40**
BDMT110304ERJSPR1535	0.248 in	0.016"	PR1535	**487Z68**
BDMT110304ERJTPR1225	0.248 in	0.016"	PR1225	**487X41**
BDMT110308ERJTPR1225	0.248 in	0.031"	PR1225	**487X42**
BDMT170402FRKPD001	0.378 in	0.008"	KPD001	**487X07**
BDMT170404ERJSPR1225	0.378 in	0.016"	PR1225	**487X56**
BDMT170404ERJTCA6535	0.378 in	0.016"	CA6535	**487Y67**
BDMT170404ERJTPR1210	0.378 in	0.016"	PR1210	**487X25**
BDMT170404ERJTPR1225	0.378 in	0.016"	PR1225	**487X57**
BDMT170404ERJTPR1535	0.378 in	0.016"	PR1535	**487Y48**
BDMT170404FRKPD001	0.378 in	0.016"	KPD001	**487X08**
BDMT170404FRKPD230	0.378 in	0.016"	KPD230	**487X12**
BDMT170408ERJSCA6535	0.378 in	0.031"	CA6535	**487Y63**
BDMT170408ERJSPR1225	0.378 in	0.031"	PR1225	**487X58**
BDMT170408ERJSPR1535	0.378 in	0.031"	PR1535	**487Y43**
BDMT170408ERJTCA6535	0.378 in	0.031"	CA6535	**487Y68**
BDMT170408ERJTPR1210	0.378 in	0.031"	PR1210	**487X26**
BDMT170408ERJTPR1225	0.378 in	0.031"	PR1225	**487X59**
BDMT170408ERJTPR1535	0.378 in	0.031"	PR1535	**487Y49**
BDMT170408ERN3PR1225	0.378 in	0.031"	PR1225	**487X60**
BDMT170408ERN3PR1230	0.378 in	0.031"	PR1230	**487Y10**
BDMT170408ERN3PR1535	0.378 in	0.031"	PR1535	**487Z71**
BDMT170408ERN4PR1225	0.378 in	0.031"	PR1225	**487X61**
BDMT170408ERN4PR1230	0.378 in	0.031"	PR1230	**487Y11**
BDMT170408ERN4PR1535	0.378 in	0.031"	PR1535	**487Z72**
BDMT170412ERJTPR1225	0.378 in	0.047"	PR1225	**487X62**
BDMT170416ERJTCA6535	0.378 in	0.063"	CA6535	**487Y69**
BDMT170416ERJTPR1210	0.378 in	0.063"	PR1210	**487X27**
BDMT170416ERJTPR1225	0.378 in	0.063"	PR1225	**487X63**
BDMT170416ERJTPR1535	0.378 in	0.063"	PR1535	**487Y50**
BDMT170420ERJTPR1210	0.378 in	0.079"	PR1210	**487X28**
BDMT170420ERJTPR1225	0.378 in	0.079"	PR1225	**487X64**
BDMT170420ERJTPR1535	0.378 in	0.079"	PR1535	**487Y81**
BDMT170424ERJTPR1225	0.378 in	0.094"	PR1225	**487X65**
BDMT170431ERJTCA6535	0.378 in	0.122"	CA6535	**487Y70**
BDMT170431ERJTPR1225	0.378 in	0.122"	PR1225	**487X66**
BDMT170431ERJTPR1535	0.378 in	0.122"	PR1535	**487Y51**
BDMT170440ERJTPR1225	0.378 in	0.157"	PR1225	**487X67**
GOMT08T208ERDPR1210	0.205 in	0.031"	PR1210	**487X92**
GOMT08T208ERDPR1225	0.205 in	0.031"	PR1225	**487X98**
GOMT13T308ERDPR1210	0.329 in	0.031"	PR1210	**487X93**
GOMT100308ERDPR1225	0.258 in	0.031"	PR1225	**487X99**
GOMT160408ERDPR1210	0.395 in	0.031"	PR1210	**487X94**
GOMT160408ERDPR1225	0.395 in	0.031"	PR1225	**487Y01**
XPMT090208PR1525	0.250 in	0.031"	PR1525	**488A17**
XPMT090208TN100M	0.250 in	0.031"	TN100M	**488A12**
Pentagon				
PNMU1205ANERGMPR1225	0.7040 in	0.079"	PR1225	**487X14**
PNMU1205ANERGMPR1535	0.7040 in	0.079"	PR1535	**487Y57**
Rectangle				
GOMT13T308ERD PR1225	0.329 in	0.032"	PR1225	**53CE57**
JOMT13T308ERD PR1225	0.329 in	0.032"	PR1225	**53CE58**
LOGT100408FRAMPDL025	0.268 in	0.031"	PDL025	**488A09**
LOGU030310ERGMCA6535	0.244 in	0.039"	CA6535	**487Z91**
LOGU030310ERGMPR1525	0.244 in	0.039"	PR1525	**487Z89**
LOMU100408ERGMPR1525	0.260 in	0.031"	PR1525	**487Y24**
LOMU100420ERGM PR1525	0.260 in	0.079"	PR1525	**53CE59**
LPGT010210ERGMPR1535	0.165 in	0.039"	PR1535	**488A05**
Round				
RPGT1204M0ERGMCA6535	0.4720 in	0.236"	CA6535	**487Z36**
RPMT10T3M0ENGHPR1525	0.3940 in	0.138"	PR1525	**487Z27**
Square				
SOMT100420ERLDPR1535	0.4110 in	0.079"	PR1535	**487Z12**
Trigon				
WNGT080608FNAMGW25	0.5520 in	0.031"	GW25	**488A03**
WNMU080608ENGHPR1525	0.5520 in	0.031"	PR1525	**487Y29**

Special Edition

Mini

Comfort NG

Premium NG

HAIMER

Power Clamp Shrink Fit Machines

- Compatible with carbide and HSS tools
- 5-second shrink time
- Induction shrink fitting style
- Integrated contact cooling (except 52TV71)

Mini—This single chuck version features standard coil V2008 and interchangeable stop discs. Includes base holder, chuck support, and 3 stop discs.

Special Edition—This single chuck version features standard coil V2008 and interchangeable stop discs. This unit includes cooling manager, base holder, and chuck support.

Comfort NG—Includes intelligent NG coil, rotary table with 3 stations plus chuck support, and cooling manager.

Premium NG—Features intelligent NG coil and integrated drawer. Integrated contacted cooling has 5 cooling bodies fixed to linear guides. Includes cooling manager, 2 precision base holders, and 2 precision chuck supports.

Description	Shrinking Dia. Range First Coil	Max. Diameter Second Coil	Max. Chuck Length	Watts	Mfr. Model	Item No.
Mini	⅛ in to ⅝ in	—	350.00 mm	10,000 W	80.143.00	**52TV71**
Special Edition	⅛ in to 1 ¼ in	—	510.00 mm	13,000 W	80.110.11SE	**52TV69**
Comfort NG	⅛ in to 1 ¼ in	50.80 mm	570.00 mm	13,000 W	80.100.01NG.3	**52TV63**
Premium NG	⅛ in to 1 ¼ in	—	535.00 mm	13,000 W	80.170.01NG.3	**52TV75**

HAIMER

CV40
46LL81

HSK63A
46LX87

Standard Shrink Fit Chucks

- Balanced to 25,000 rpm

Made of heat-resistant, hot-working steel with a fine-machined surface. Suitable for all kinds of high-speed steel and solid carbide shrink-fit units. Features include high runout accuracy, extreme clamping torque by high pressing in the clamping bore, short camfer, reinforced shank, slimness (marginal interference contour), and rigidity. CAT40 Form ADB means central-coolant supply and coolant channels through the flange can be sealed again. Threaded bores allow for simple and fast balancing with screws.

Hole Dia.	Projection	Mfr. Model	Item No.
CV40			
⅛ in	3.1500 in	40.840.1/8Z	**46LL89**
3⁄16 in	3.1500 in	40.840.3/16Z	**46LL98**
¼ in	3.1500 in	40.840.1/4z.4	**46LL88**
	5.1200 in	40.844.1/4z.4	**46LM55**
	6.3000 in	40.842.1/4z.4	**46LM16**
5⁄16 in	3.1500 in	40.840.5/16z.4	**46LM03**
	5.1200 in	40.844.5/16z.4	**46LM79**
	6.3000 in	40.842.5/16z.4	**46LM40**
⅜ in	3.1500 in	40.840.3/8z.4	**46LM01**
	5.1200 in	40.844.3/8z.4	**46LM76**
	6.3000 in	40.842.3/8z.4	**46LM38**
7⁄16 in	3.1500 in	40.840.7/16z.4	**46LM05**
	5.1200 in	40.844.7/16z.4	**46LM83**
	6.3000 in	40.842.7/16z.4	**46LM44**
½ in	3.1500 in	40.840.1/2Z.26	**46LL86**
	3.1500 in	40.840.1/2z.4	**46LL87**
	5.1200 in	40.844.1/2z.4	**46LM53**
	6.3000 in	40.842.1/2Z.26	**46LM11**
	6.3000 in	40.842.1/2z.4	**46LM14**
⅝ in	3.1500 in	40.840.5/8z.4	**46LM04**
	5.1200 in	40.844.5/8z.4	**46LM82**
	6.3000 in	40.842.5/8z.4	**46LM43**
¾ in	3.1500 in	40.840.3/4z.4	**46LL99**
	5.1200 in	40.844.3/4z.4	**46LM74**
	6.3000 in	40.842.3/4z.4	**46LM35**
⅞ in	3.1500 in	40.840.7/8z.4	**46LM06**
	5.1200 in	40.844.7/8z.4	**46LM84**
	6.3000 in	40.842.7/8z.4	**46LM45**
1 in	3.9400 in	40.840.1z.4	**46LL95**
	5.1200 in	40.844.1z.4	**46LM66**
	6.3000 in	40.842.1z.4	**46LM27**
1¼ in	3.9400 in	40.840.11/4z.4	**46LL91**
	5.1200 in	40.844.11/4z.4	**46LM58**
	6.3000 in	40.842.11/4z.4	**46LM19**
3.00mm	80.00 mm	40.840.03	**46LL81**
4.00mm	80.00 mm	40.840.04	**46LL82**
5.00mm	80.00 mm	40.840.05	**46LL83**
6.00mm	80.00 mm	40.840.06.4	**46LL84**
	130.00 mm	40.844.06.4	**46LM47**
	160.00 mm	40.842.06.4	**46LM08**
8.00mm	80.00 mm	40.840.08.4	**46LL85**
	130.00 mm	40.844.08.4	**46LM49**
	160.00 mm	40.842.08.4	**46LM10**
10.00mm	80.00 mm	40.840.10.4	**46LL90**
	130.00 mm	40.844.10.4	**46LM57**
	160.00 mm	40.842.10.4	**46LM18**
12.00mm	80.00 mm	40.840.12.4	**46LL92**
	130.00 mm	40.844.12.4	**46LM61**
	160.00 mm	40.842.12.4	**46LM22**
14.00mm	80.00 mm	40.840.14.4	**46LL93**
	130.00 mm	40.844.14.4	**46LM62**
	160.00 mm	40.842.14.4	**46LM23**
16.00mm	80.00 mm	40.840.16.4	**46LL94**
	130.00 mm	40.844.16.4	**46LM65**
	160.00 mm	40.842.16.4	**46LM26**
20.00mm	80.00 mm	40.840.20.4	**46LL96**
	130.00 mm	40.844.20.4	**46LM69**
	160.00 mm	40.842.20.4	**46LM30**
25.00mm	100.00 mm	40.840.25.4	**46LL97**
	130.00 mm	40.844.25.4	**46LM70**
	160.00 mm	40.842.25.4	**46LM31**
32.00mm	100.00 mm	40.840.32.4	**46LM02**
	130.00 mm	40.844.32.4	**46LM77**
CV50			
¼ in	3.1500 in	50.840.1/4Z.26	**46LT12**
	3.1500 in	50.840.1/4z.4	**46LT15**
	5.1200 in	50.844.1/4z.4	**46LU15**
	6.3000 in	50.842.1/4z.4	**46LT71**
5⁄16 in	3.1500 in	50.840.5/16z.26	**46LT52**
	3.1500 in	50.840.5/16z.4	**46LT54**
	5.1200 in	50.844.5/16z.4	**46LU28**
	6.3000 in	50.842.5/16z.4	**46LU05**
⅜ in	3.1500 in	50.840.3/8z.4	**46LT50**
	5.1200 in	50.844.3/8z.4	**46LU26**
	6.3000 in	50.842.3/8z.4	**46LU02**
7⁄16 in	3.1500 in	50.840.7/16z.4	**46LT59**
	5.1200 in	50.844.7/16z.4	**46LU30**
	6.3000 in	50.842.7/16z.4	**46LU10**
½ in	3.1500 in	50.840.1/2z.4	**46LT11**
	5.1200 in	50.844.1/2z.4	**46LU14**
	6.3000 in	50.842.1/2z.4	**46LT68**
⅝ in	3.1500 in	50.840.5/8z.4	**46LT58**
	5.1200 in	50.844.5/8z.4	**46LU29**
	6.3000 in	50.842.5/8z.4	**46LU09**
¾ in	3.1500 in	50.840.3/4z.26	**46LT42**
	3.1500 in	50.840.3/4z.4	**46LT47**
	5.1200 in	50.844.3/4z.4	**46LU25**
	6.3000 in	50.842.3/4Z.4	**46LT98**
⅞ in	5.1200 in	50.844.7/8z.4	**46LU31**
	6.3000 in	50.842.7/8z.4	**46LU11**
1 in	3.9400 in	50.840.1z.4	**46LT35**
	5.1200 in	50.844.1z.4	**46LU22**
	6.3000 in	50.842.1z.4	**46LT88**
1¼ in	3.9400 in	50.840.11/4z.4	**46LT20**
	5.1200 in	50.844.11/4z.4	**46LU17**
	6.3000 in	50.842.11/4z.4	**46LT74**
6.00mm	80.00 mm	50.840.06.4	**46LT04**
	130.00 mm	50.844.06.4	**46LU12**
	160.00 mm	50.842.06.4	**46LT62**
8.00mm	80.00 mm	50.840.08.4	**46LT07**
	130.00 mm	50.844.08.4	**46LU13**
	160.00 mm	50.842.08.4	**46LT64**
10.00mm	80.00 mm	50.840.10.26	**46LT16**
	80.00 mm	50.840.10.4	**46LT19**
	130.00 mm	50.844.10.4	**46LU16**
	160.00 mm	50.842.10.4	**46LT73**
12.00mm	80.00 mm	50.840.12.4	**46LT23**
	130.00 mm	50.844.12.4	**46LU18**
	160.00 mm	50.842.12.4	**46LT77**
14.00mm	80.00 mm	50.840.14.4	**46LT26**
	130.00 mm	50.844.14.4	**46LU19**
	160.00 mm	50.842.14.4	**46LT80**
16.00mm	80.00 mm	50.840.16.4	**46LT29**
	130.00 mm	50.844.16.4	**46LU20**
	160.00 mm	50.842.16.4	**46LT83**
18.00mm	80.00 mm	50.840.18.4	**46LT32**
	130.00 mm	50.844.18.4	**46LU21**
20.00mm	80.00 mm	50.840.20.4	**46LT38**
	130.00 mm	50.844.20.4	**46LU23**
	160.00 mm	50.842.20.4	**46LT91**
25.00mm	100.00 mm	50.840.25.4	**46LT41**
	130.00 mm	50.844.25.4	**46LU24**
	160.00 mm	50.842.25.4	**46LT93**
32.00mm	100.00 mm	50.840.32.4	**46LT51**
	130.00 mm	50.844.32.4	**46LU27**
	160.00 mm	50.842.32.4	**46LU03**
HSK63A			
⅛ in	3.1500 in	A63.140.1/8Z	**46LX87**
3⁄16 in	3.1500 in	A63.140.3/16Z	**46LY09**
¼ in	3.1500 in	A63.140.1/4z.26	**46LX86**
	3.1500 in	A63.140.1/4Z.4	**46LX85**
	5.1200 in	A63.144.1/4z.4	**46LY90**
	6.3000 in	A63.142.1/4z.4	**46LY34**
5⁄16 in	3.1500 in	A63.140.5/16z.4	**46LY18**
	5.1200 in	A63.144.5/16z.4	**46LZ37**
	6.3000 in	A63.142.5/16z.4	**46LY72**
⅜ in	3.3500 in	A63.140.3/8Z.26	**46LY14**
	3.3500 in	A63.140.3/8z.4	**46LY15**
	5.1200 in	A63.144.3/8z.4	**46LZ33**
	6.3000 in	A63.142.3/8z.4	**46LY67**
7⁄16 in	3.3500 in	A63.140.7/16z.4	**46LY22**
	5.1200 in	A63.144.7/16Z.4	**46LZ42**
	6.3000 in	A63.142.7/16Z.4	**46LY77**
½ in	3.5400 in	A63.140.1/2z.26	**46LX84**
	3.5400 in	A63.140.1/2Z.4	**46LX83**
	5.1200 in	A63.144.1/2z.4	**46LY87**
	6.3000 in	A63.142.1/2z.4	**46LY31**
⅝ in	3.7400 in	A63.140.5/8z.4	**46LY19**
	5.1200 in	A63.144.5/8z.4	**46LZ41**
	6.3000 in	A63.142.5/8z.4	**46LY76**
¾ in	3.9400 in	A63.140.3/4Z.26	**46LY10**
	3.9400 in	A63.140.3/4z.4	**46LY11**
	5.1200 in	A63.144.3/4z.4	**46LZ30**
	6.3000 in	A63.142.3/4z.4	**46LY64**
1 in	4.5300 in	A63.140.1Z.4	**46LY02**
	5.1200 in	A63.144.1z.4	**46LZ18**
	6.3000 in	A63.142.1z.4	**46LY54**
1¼ in	4.7200 in	A63.140.11/4z.4	**46LX90**
	5.1200 in	A63.144.11/4z.4	**46LY96**
	6.3000 in	A63.142.11/4Z.4	**46LY39**

TECHNIKS BUILT FOR SPEED

CV40 Toolholders

End Mill Holder 40MZ59

These toolholders securely grip and center rotary cutting tools to enable them to make accurate cuts.

End mill holders attach end mills to a milling machine. They grip more securely than a collet to keep end mills from spinning or pulling out during heavy cuts.

Shell mill holders secure shell mills and face mills to a milling machine.

Shrink-fit toolholders use thermal contraction rather than mechanical tightening to get a strong, uniform grip on cutting tools. They provide more gripping force, better balance, and higher concentricity in high-speed machining applications than collets, milling chucks, or hydraulic chucks.

Shell Mill Holder 35YJ20

Shrink Fit Tool Holder 35YJ55

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
End Mill Holder				
¼ in	2½ in	0.7800 in	—	**35YJ29**
	4.7200 in	0.7800 in	Coolant Through	**40MZ20**
	6 in	0.7800 in	Coolant Through	**40MZ22**
5⁄16 in	2½ in	⅞ in	Coolant Through	**40MZ27**
⅜ in	2½ in	1 in	—	**35YJ31**
	5 in	1 in	Coolant Through	**40MZ38**
7⁄16 in	2½ in	1.1300 in	Coolant Through	**40MZ43**
½ in	1¾ in	1¼ in	—	**35YJ33**
	2⅝ in	1¼ in	Coolant Through	**40MZ47**
	4.7200 in	1.3800 in	Coolant Through	**40MZ48**
⅝ in	1¾ in	1½ in	Coolant Through	**40MZ53**
	3¾ in	1½ in	Coolant Through	**40MG89**
	5¾ in	1½ in	Coolant Through	**40MZ59**
¾ in	1¾ in	1¾ in	—	**35YJ38**
	3 in	1¾ in	—	**35YJ37**
	5 in	1¾ in	Coolant Through	**40MZ67**
1 in	1¾ in	2 in	—	**35YJ43**
	3 in	2 in	—	**35YJ41**
	4 in	2 in	—	**35YJ40**
	6 in	2 in	—	**35YJ42**
	6 in	2½ in	Coolant Through	**40MZ74**
1¼ in	2 in	2½ in	Coolant Through	**40MZ75**
	4 in	2½ in	Coolant Through	**40MZ73**
1½ in	4 in	2½ in	Coolant Through	**40MG92**
8.00mm	63.50mm	28.00mm	Coolant Through	**40MG98**
10.00mm	63.50mm	35.00mm	Coolant Through	**40MG99**
12.00mm	2½ in	42.00mm	—	**35YJ52**
16.00mm	63.50mm	48.00mm	Coolant Through	**40MH01**
20.00mm	76.00mm	52.00mm	Coolant Through	**40MH02**
25.00mm	101.00mm	65.00mm	Coolant Through	**40MH03**

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
Shell Mill Holder				
—	1.3700 in	⅞ in	Non-Coolant Through	**35YJ20**
	2-1/6 in	1.1900 in	Non-Coolant Through	**35YJ22**
	4 in	⅞ in	Non-Coolant Through	**35YJ21**
	4 in	1.1900 in	Non-Coolant Through	**35YJ23**
Shrink Fit Tool Holder				
—	3 in	0.9400 in	Coolant Through	**35YJ55**
	3.9400 in	21.00mm	Coolant Through	**35YJ56**

TECHNIKS BUILT FOR SPEED

Collet Chuck

- Coolant-Through

Collet chucks connect collets to milling machines, lathes, and other manual and CNC machine tools so that the collets can hold small-diameter tools and workpieces securely on the machine.

Projection	Nose Dia.	Max. Collet Capacity	Min. Collet Capacity	Item No.
1.1000 in	1.5700 in	0.787 in	0.0390 in	**35YJ07**
2.7600 in	1.0800 in	0.406 in	0.0200 in	**35YH99**
	1.3400 in	0.512 in	0.0200 in	**35YJ02**
2 ½ in	1.6500 in	0.750 in	0.0390 in	**40MY80**
2.7600 in	1.9700 in	0.787 in	0.0390 in	**35YJ06**
3.1500 in	2.4800 in	1.024 in	0.0860 in	**40MG61**
4 in	1.0800 in	0.406 in	0.0200 in	**35YJ01**
	1.3400 in	0.512 in	0.0200 in	**35YJ03**
	1.6500 in	0.750 in	0.0390 in	**40MG58**
	1.9700 in	0.787 in	0.0390 in	**35YJ08**
6 in	1.3400 in	0.512 in	0.0200 in	**35YJ04**
	1.6500 in	0.750 in	0.0390 in	**35YJ05**
	1.9700 in	0.787 in	0.0390 in	**35YJ09**

35YJ07

LYNDEX NIKKEN

Shell Mill Holders

These holders are quick and easy to set up and accommodate face mills with bore diameters ranging from ½" to 2". Pilot diameter sized for precision fit with cutter. Include removable/replaceable drive keys and arbor screw.

BT30 38NV44

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
BT30	½ in	0.5700 in	1.1900 in	1.378"	¼"-28	**38NV44**
	¾ in	0.6700 in	1.1900 in	1.929"	⅜"-24	**38NV45**
	1 in	0.6700 in	1.1900 in	2.382"	½"-20	**38NV46**
BT40	½ in	0.5700 in	1¾ in	1.378"	¼"-28	**38NW08**
	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38NW09**
	1 in	0.6700 in	1¾ in	2.382"	½"-20	**38NW10**
	1½ in	0.9200 in	2 in	3.799"	¾"-16	**38NW11**
BT50	1 in	0.6800 in	1¾ in	2.382"	½"-20	**38NX21**
	1 in	0.6800 in	4 in	2.382"	½"-20	**38NX68**
	1¼ in	0.6800 in	2 in	2.882"	⅝"-18	**38NX22**
	1¼ in	0.6800 in	4 in	2.882"	⅝"-18	**38NX69**
	1¼ in	0.6800 in	6 in	2.882"	⅝"-18	**38NX89**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38NX23**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38NX70**
	2 in	0.9300 in	2 in	4.382"	1"-14	**38NX24**
CV40	½ in	0.5700 in	1¾ in	1.378"	¼"-28	**38NZ74**
	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38NZ75**
	¾ in	0.6700 in	4 in	1.929"	⅜"-24	**38PA47**
	1 in	0.6700 in	1¾ in	2.382"	½"-20	**38NZ76**
	1 in	0.6700 in	4 in	2.382"	½"-20	**38PA48**
	1¼ in	0.6700 in	2 in	2.882"	⅝"-18	**38NZ77**
	1¼ in	0.6700 in	4 in	2.882"	⅝"-18	**38PA49**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38NZ78**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38PA50**
CV50	¾ in	0.6700 in	1¾ in	1.929"	⅜"-24	**38PC43**
	¾ in	0.6700 in	4 in	1.929"	⅜"-24	**38PD21**
	¾ in	0.6700 in	6 in	1.929"	⅜"-24	**38PD60**
	¾ in	0.6700 in	8 in	1.929"	⅜"-24	**38PD90**
	1 in	0.6900 in	1¾ in	2.382"	½"-20	**38PC44**
	1 in	0.6900 in	4 in	2.382"	½"-20	**38PD22**
	1 in	0.6900 in	6 in	2.382"	½"-20	**38PD61**
	1 in	0.6900 in	8 in	2.382"	½"-20	**38PD91**
	1¼ in	0.6900 in	1¾ in	2.882"	⅝"-18	**38PC45**
	1¼ in	0.6900 in	4 in	2.882"	⅝"-18	**38PD23**
	1¼ in	0.6900 in	6 in	2.882"	⅝"-18	**38PD62**
	1¼ in	0.6900 in	8 in	2.882"	⅝"-18	**38PD92**
	1½ in	0.9300 in	2 in	3.799"	¾"-16	**38PC46**
	1½ in	0.9300 in	4 in	3.799"	¾"-16	**38PD24**
	1½ in	0.9300 in	6 in	3.799"	¾"-16	**38PD63**
	1½ in	0.9300 in	8 in	3.799"	¾"-16	**38PD93**
	2 in	0.9300 in	2 in	4.382"	1"-14	**38PC47**
	2 in	0.9300 in	4 in	4.382"	1"-14	**38PD25**
HSK100A	¾ in	0.6690 in	6 in	1.693"	⅜"-24	**38PW60**
	1 in	0.6690 in	4 in	2.165"	½"-20	**38PW61**
	1 in	0.6690 in	6 in	2.165"	½"-20	**38PW62**
	1¼ in	0.6690 in	6 in	2.756"	⅝"-18	**38PW63**
	2 in	0.9020 in	4 in	4.488"	1"-14	**38PW64**
	2 in	0.9020 in	6 in	4.488"	1"-14	**38PW65**
HSK40A	¾ in	0.6700 in	2 23⁄64 in	1.690"	⅜"-24	**38PW93**
	1 in	0.6700 in	2 23⁄64 in	2.170"	½"-20	**38PW94**
HSK63A	¾ in	0.6690 in	3 in	1.693"	⅜"-24	**38PX71**
	¾ in	0.6690 in	5 in	1.693"	⅜"-24	**38PX72**
	1 in	0.6690 in	3 in	2.165"	½"-20	**38PX73**
	1¼ in	0.6690 in	5 in	2.756"	⅝"-18	**38PX74**
NMTB30	½ in	0.5700 in	1¼ in	1.378"	¼"-28	**38PZ17**
	¾ in	0.6700 in	1.3100 in	1.929"	⅜"-24	**38PZ18**
	1 in	0.6700 in	1.3100 in	2.382"	½"-20	**38PZ19**
NMTB40	½ in	0.5700 in	⅞ in	1.382"	¼"-28	**38PZ49**
	1¼ in	0.6700 in	1½ in	2.882"	⅝"-18	**38PZ52**
NMTB50	1 in	0.6700 in	1⅞ in	2.382"	½"-20	**38PZ92**
R8	½ in	0.5700 in	1 in	1.380"	¼"-28	**38NV25**
	¾ in	0.6900 in	1 in	2"	⅜"-24	**38NV26**
	1 in	0.6900 in	1 in	2.380"	½"-20	**38NV27**
	1¼ in	0.6900 in	1 in	2.880"	⅝"-18	**38NV28**
	1½ in	0.9400 in	1¾ in	3.500"	¾"-16	**38NV29**

TECHNIKS BUILT FOR SPEED

ER Milling and Drilling Collets

042/ER-16 Series

045/ER-16 Series

- Heat-treated for improved flexibility and durability
- Made from high-carbon bearing steel

042 Series—Precision collets feature a collapse range of 0.039" and an average T.I.R. of 0.0002". Can be used with RD, DR, ESX, and BR collet chucks.

045 Series—Steel-sealed precision coolant collets are sealed to 2000 psi with no plugs to fail. They protect the toolholder from contaminants. Can be used with ER, RD, DR, ESX, and BR collet chucks.

Collet Series	Size	Mfr. Model	Item No.
Fractional			
042 Series			
ER16	1/16"	04216-1/16	40MM62
	3/32"	04216-3/32	40MM67
	1/8"	04216-1/8	35YG76
	5/32"	04216-5/32	40MM68
	3/16"	04216-3/16	35YG77
	7/32"	04216-7/32	40MM69
	1/4"	04216-1/4	35YG75
	9/32"	04216-9/32	40MM70
	5/16"	04216-5/16	35YG79
	11/32"	04216-11/32	40MM65
	3/8"	04216-3/8	35YG78
	13/32"	04216-13/32	40MM66
ER20	1/16"	04220-1/16	40MM87
	3/32"	04220-3/32	40MM95
	1/8"	04220-1/8	35YG84
	5/32"	04220-5/32	40MM96
	3/16"	04220-3/16	35YG88
	7/32"	04220-7/32	40MM98
	1/4"	04220-1/4	35YG83
	9/32"	04220-9/32	40MM99
	5/16"	04220-5/16	35YG90
	11/32"	04220-11/32	40MM90
	3/8"	04220-3/8	35YG89
	13/32"	04220-13/32	40MM94
	7/16"	04220-7/16	40MM97
	15/32"	04220-15/32	35YG87
	1/2"	04220-1/2	35YG82
ER25	3/32"	04225-3/32	40MN23
	1/8"	04225-1/8	35YG93
	5/32"	04225-5/32	40MN25
	3/16"	04225-3/16	40MN22
	7/32"	04225-7/32	40MN27
	1/4"	04225-1/4	35YG92
	9/32"	04225-9/32	40MN29
	5/16"	04225-5/16	40MN24
	11/32"	04225-11/32	40MN17
	3/8"	04225-3/8	35YG95
	13/32"	04225-13/32	40MN18
	7/16"	04225-7/16	40MN26
	15/32"	04225-15/32	40MN19
	1/2"	04225-1/2	35YG91
	17/32"	04225-17/32	40MN20
	9/16"	04225-9/16	40MN28
	19/32"	04225-19/32	40MN21
	5/8"	04225-5/8	35YG96
	3/4"	04225-3/4	35YG94
ER32	3/32"	04232-3/32	35YH11
	1/8"	04232-1/8	35YH03
	5/32"	04232-5/32	35YH15
	3/16"	04232-3/16	35YH10
	1/4"	04232-1/4	35YH02
	5/16"	04232-5/16	35YH14
	3/8"	04232-3/8	35YH13
	7/16"	04232-7/16	35YH17
	1/2"	04232-1/2	35YH01
	9/16"	04232-9/16	35YH18
	19/32"	04232-19/32	35YH08
	5/8"	04232-5/8	35YH16
	11/16"	04232-11/16	35YH06
	3/4"	04232-3/4	35YH12
ER40	1/8"	04240-1/8	35YH22
	1/4"	04240-1/4	35YH21
	11/32"	04240-11/32	35YH23
	3/8"	04240-3/8	35YH25
	1/2"	04240-1/2	35YH20
	3/4"	04240-3/4	35YH24
	7/8"	04240-7/8	35YH26
	1"	04240-1	35YH19
045 Series			
ER20	5/16"	04544-5/16	35YH31
ER32	7/16"	04546-7/16	35YH47
	1/2"	04546-1/2	35YH37
	5/8"	04546-5/8	35YH46
	11/16"	04546-11/16	35YH39
	3/4"	04546-3/4	35YH45
ER40	1"	04547-1	35YH48

Collet Series	Size	Mfr. Model	Item No.
Metric			
042 Series			
ER16	1.0mm	04216-01	40MM47
	1.5mm	04216-01.5	40MM48
	2.0mm	04216-02	40MM49
	2.5mm	04216-02.5	40MM50
	3.0mm	04216-03	35YG72
	3.5mm	04216-03.5	40MM51
	4.0mm	04216-04	40MM52
	4.5mm	04216-04.5	40MM53
	5.5mm	04216-05.5	40MM54
	6.0mm	04216-06	35YG74
	6.5mm	04216-06.5	40MM55
	7.0mm	04216-07	40MM56
	7.5mm	04216-07.5	40MM57
	8.0mm	04216-08	40MM58
	8.5mm	04216-08.5	40MM59
	9.0mm	04216-09	40MM60
	9.5mm	04216-09.5	40MM61
	10.0mm	04216-10	40MM63
	10.5mm	04216-10.5	40MM64
ER20	1.0mm	04220-01	40MM71
	1.5mm	04220-01.5	40MM72
	2.0mm	04220-02	40MM73
	2.5mm	04220-02.5	40MM74
	3.0mm	04220-03	40MM75
	3.5mm	04220-03.5	40MM76
	4.0mm	04220-04	40MM77
	4.5mm	04220-04.5	40MM78
	5.0mm	04220-05	40MM79
	5.5mm	04220-05.5	40MM80
	6.0mm	04220-06	40MM81
	6.5mm	04220-06.5	40MM82
	7.0mm	04220-07	40MM83
	7.5mm	04220-07.5	40MM84
	8.0mm	04220-08	35YG80
	8.5mm	04220-08.5	40MM85
	9.0mm	04220-09	35YG81
	9.5mm	04220-09.5	40MM86
	10.0mm	04220-10	35YG85
	10.5mm	04220-10.5	40MM88
	11.0mm	04220-11	35YG86
	11.5mm	04220-11.5	40MM89
	12.5mm	04220-12.5	40MM91
	13.0mm	04220-13	40MM92
	13.5mm	04220-13.5	40MM93
ER25	2.0mm	04225-02	40MN01
	2.5mm	04225-02.5	40MN02
	3.0mm	04225-03	40MN03
	3.5mm	04225-03.5	40MN04
	4.0mm	04225-04	40MN05
	5.0mm	04225-05	40MN06
	6.0mm	04225-06	40MN07
	7.0mm	04225-07	40MN08
	8.0mm	04225-08	40MN09
	9.0mm	04225-09	40MN10
	10.0mm	04225-10	40MN11
	11.0mm	04225-11	40MN12
	13.0mm	04225-13	40MN13
	15.0mm	04225-15	40MN14
	16.0mm	04225-16	40MN15
	17.0mm	04225-17	40MN16
ER32	6.0mm	04232-06	35YG97
	8.0mm	04232-08	35YG98
	9.0mm	04232-09	35YG99
	10.0mm	04232-10	35YH04
	11.0mm	04232-11	35YH05
	12.0mm	04232-12	35YH07
	20.0mm	04232-20	35YH09
045 Series			
ER16	6.0mm	04543-06	35YH27
	8.0mm	04543-08	35YH28
	10.0mm	04543-10	35YH29
ER20	6.0mm	04544-06	35YH30
ER25	11.0mm	04545-11	35YH32
	12.0mm	04545-12	35YH33
	14.0mm	04545-14	35YH34
ER32	6.0mm	04546-06	35YH35
	8.0mm	04546-08	35YH36
	10.0mm	04546-10	35YH38
	12.0mm	04546-12	35YH40
	14.0mm	04546-14	35YH41
	16.0mm	04546-16	35YH42
	18.0mm	04546-18	35YH43
	20.0mm	04546-20	35YH44
ER40	16.0mm	04547-16	35YH49

ER16, 10-Pc.
40MP43

ER32, 18-Pc.
40MR17

TECHNIKS BUILT FOR SPEED

ER Collet Sets

- Includes Wooden Collet Tray

All surfaces are precision ground for maximum accuracy and milling chuck capability.

Collet Series	No. of Pieces	Size/Range	Item No.
ER16	4	0.168" to 0.255"	40MT59
	5	0.141" to 0.255"	40MR70
	8	3.0mm to 10.0mm	40MP44
	9	0.141" to 0.381"	40MR71
	10	0.5mm to 10.0mm	40MM08
	10	3/32" to 3/8"	40MP43
	15	3.0mm to 10.0mm	40MV05
ER20	8	0.168" to 0.381"	40MT68
	9	0.141" to 0.381"	40MR87
	11	3.0mm to 13.0mm	40MP68
	12	1.0mm to 13.0mm	40MM09
	12	5/32" to 1/2"	40MP67
	21	3.0mm to 13.0mm	40MV29
ER25	11	0.141" to 0.542"	40MR94
	11	0.168" to 0.480"	40MT69
	14	3.0mm to 16.0mm	40MP93
	14	7/32" to 5/8"	40MP92
	15	1.0mm to 16.0mm	40MM10
	16	1/8" to 5/8"	40MM45
	27	3.0mm to 16.0mm	40MV57
ER32	15	0.168" to 0.652"	40MT81
	16	0.141" to 0.652"	40MT17
	18	2.0mm to 20.0mm	40MM11
	18	7/32" to 3/4"	40MR17
	35	3.0mm to 20.0mm	40MV98
ER40	13	1/8" to 1"	40MM46
	14	6.0mm to 25.0mm	40MR49
	15	3/8" to 1"	40MR48
	21	0.141" to 0.800"	40MT36
	23	3.0mm to 26.0mm	40MM12

Hand Wrench
35YH50

Retention Knob
35YH97

Slot Nut
35YJ65

TECHNIKS BUILT FOR SPEED

Tapping Collets

Rigid taps automatically stop spinning if tap reaches bottom of hole, preventing broken taps. Change worn taps in seconds.

Collet Series	Size	Mfr. Model	Item No.
ANSI Rigid Tap 19/11	0.141"	19/11-4036	**35YH83**
	0.194"	19/11-4048	**35YH84**
	0.220"	19/11-4054	**35YH85**
	0.318"	19/11-4079	**35YH86**
	0.381"	19/11-4095	**35YH87**
	0.429"	19/11-4142	**35YH88**
ANSI Rigid Tap 31/12	½"	31/12-4127	**35YJ59**
	⅝"	31/12-4158	**35YJ60**

TECHNIKS BUILT FOR SPEED

Toolholder Setup Equipment

Item	Style	Size	For Use With	Item No.
Collet Wrench	E-Wrench	4.61 in	ER Series	**35YH53**
	E-Wrench	8.11 in	ER Series	**35YH50**
	E-Wrench	9.96 in	ER Series	**35YH51**
	E-Wrench	11.38 in	ER Series	**35YH52**
Retention Knob	Coolant I	2.36"	BT40 Tool Holders	**35YH80**
	Coolant I	1.50"	CAT40 Tool Holders	**35YH92**
	Coolant I	2.25"	CAT40 Tool Holders	**35YH91**
	Coolant I	2.30"	CAT 50 Tool Holders	**35YH97**
	Coolant I	3.34"	CAT 50 Tool Holders	**35YH94**
	Coolant II	3.34"	CAT 50 Tool Holders	**35YH95**
	Coolant III	3.34"	CAT 50 Tool Holders	**35YH96**
	Straight	1.50"	CAT40 Tool Holders	**35YH89**
	Straight	2.25"	CAT40 Tool Holders	**35YH90**
	Straight	2.30"	CAT 50 Tool Holders	**35YH93**
Collet Nut	High Speed	1.18"	TG Collets	**35YJ54**
	High Speed	1.08"	ER Collets	**35YJ62**
	Coolant I	1.65"	ER Collets	**35YJ63**
	Coolant I	1.97"	ER Collets	**35YJ64**
	High Speed	1.97"	ER Collets	**35YJ65**
Collet Wrench	Open Ended	1.41 in	ER Series	**35YJ69**

Tool Platform
2TRF7

ToolTower
2TRD8

SpeedyScoot Cart
2TRA9

Huot

CNC Toolholder Storage

- Steel construction

ToolScoot and SuperScoot mobile units have 2 swivel locking and 2 fixed casters.

Description	Holds	No. of Shelves	W (in.)	D (in.)	H (in.)	Color	Mfr. Model	Item No.
Heavy-Duty, 1,000 lb lb. Caster Rating								
40 Taper								
Tool Platform	Up to 24 Tools	1	27 ¼ in	20 ¼ in	11 in	Black Sides w/Red Shelf	14840	**2TRF7**
ToolTower	Up to 72 Tools	3 Adjustable	27 5⁄16 in	18 5⁄16 in	36 in	Black Sides w/Red Shelves	13840	**2TRD8**
SpeedyScoot	Up to 24 Tools	1	30 in	15 in	35 in	Black Cart w/Black Shelf	33940	**2TRA9**
ToolScoot	Up to 48 Tools	2 Adjustable	35 ¼ in	18 in	35 in	Black Cart w/Red Shelves	13940	**2TRE1**
50 Taper								
Tool Platform	Up to 18 Tools	1	27 ¼ in	20 ¼ in	11 in	Black Sides w/Red Shelf	14850	**2TRF8**
ToolTower	Up to 54 Tools	3 Adjustable	27 5⁄16 in	18 5⁄16 in	36 in	Black Sides w/Red Shelves	13850	**2TRD9**
ToolScoot	Up to 15 Tools	1	30 in	15 in	35 in	Black Cart w/Black Shelf	33950	**2TRC1**
ToolScoot	Up to 36 Tools	2 Adjustable	35 ¼ in	18 in	35 in	Black Cart w/Red Shelves	13950	**2TRE2**
Super-Duty, 1,600 lb lb. Caster Rating								
40 Taper								
SuperTower	Up to 135 Tools	3 Adjustable	33 ¾ in	17 ½ in	33 ½ in	Black Sides w/Gold Vein Shelves	23840	**2TRC2**
SuperScoot	Up to 90 Tools	2 Adjustable	45 ¼ in	17 ½ in	40 in	Black Cart w/Gold Vein Shelves	23940	**2TRA7**
50 Taper								
SuperTower	Up to 78 Tools	3 Adjustable	33 ¾ in	17 ½ in	33 ½ in	Black Sides w/Gold Vein Shelves	23850	**2TRC3**
SuperScoot	Up to 52 Tools	2 Adjustable	45 ¼ in	17 ½ in	40 in	Black Cart w/Gold Vein Shelves	23950	**2TRA8**

SuperScoot Cart
2TRA7

Ball Bearing
4LHL2

Plain Bearing
3M312

Stainless Steel
2DZH9

Jacobs CHUCK LLAMBRICH USA

Ball and Plain Bearing Drill Chucks

Chuck jaws are center ground for absolute straightness and alignment. Through-hardened sleeve teeth and hardened chuck nose provide superior wear resistance.

Ball Bearing—Engineered for heavy-duty, close tolerance production drilling. Designed to work with a wide range of production drilling equipment, jig borers, milling machines, lathes, and radials. Ball thrust bearings reduce friction and increase grip torque and overall performance.

Plain Bearing—Llambrich USA chucks feature 1-pc. gearing and sleeve to reduce the possibility of broken teeth. Ideal for stationary drilling, turning, milling, and wood working machines. Designed for medium-duty industrial use. Use threaded mounts for hand-held drilling, and tapered mounts for stationary driling machines. Jacobs® chucks were designed for heavy- and medium-duty applications using portable, bench, or floor-mounted power tools.

Stainless Steel—Designed for applications requiring chemical corrosion resistance and/or where there is a potential for hazardous sparking. 1-pc. sleeve design eliminates cracks between drilling teeth. For use with portable or stationary machine tools.

Capacity Max.	Capacity Min.	Mounting Size	Key No.	JACOBS Item No.	LLAMBRICH USA Item No.
Ball					
0.250"	0.040"	JS2	K30	3L872	—
	0.040"	JT2	K30	—	4LHK6
0.375"	0.040"	JT2	K32	3L874	—
0.500"	0.040"	JT3	K3	3L876	4LHK8
0.625"	0.125"	JT3	K4	3L878	4LHK9
0.750"	0.125"	JT4	K4	3L880	4LHL1
1.000"	0.380"	JT5	K5	—	4LHL2
Plain					
Medium-Duty					
0.156"	0.0135"	5/16"-24	K0	3M245	4LHP1
0.250"	0.040"	⅜"-24	K1	3M304	4LHP2
	0.040"	JT1	K1	3M301	—
0.375"	0.040"	⅜"-24	K30	3L964	—
	0.040"	⅜"-24	K2	3M308	—
	0.040"	⅜"-24	K34	—	4LHP4
	0.040"	½"-20	K30	3L970	4LHP5
	0.040"	JT1	K30	—	4LHN1
	0.040"	JT2	K2	3M306	4LHL9
	0.040"	JT2	K30	—	4LHN2
0.500"	0.080"	⅜"-24	K32	3M400	4LHP7
	0.080"	½"-20	K32	3M453	4LHP6
	0.080"	⅝ in -16	K32	3M502	4LHP8
	0.080"	JT33	K32	3M396	4LHN3
Heavy-Duty					
0.250"	0.040"	⅜"-24	K7	3M344	4LHN4
0.375"	0.040"	½"-20	K32	3P036	—
0.500"	0.040"	JT2	K3	3L852	4LHL4
	0.040"	JT33	K3	3L854	4LHL6
	0.040"	JT33	K3C	3L856	—
	0.040"	JT6	K3	—	4LHL5
0.625"	0.125"	⅝ in -16	K3	3M341	4LHN6
	0.125"	JT3	K3	3M312	4LHL3
	0.156"	½"-20	K3	3L862	4LHN7
0.800"	0.188"	⅝ in -16	K4	3M526	—
	0.188"	¾"-16	K4	3M528	—
	0.188"	JT3	K4	—	4LHL7
Stainless Steel					
0.156"	0.028"	5/16"-24	KOM	2DZJ1	—
	0.028"	JT0	KOM	2DZH9	—
0.250"	0.028"	5/16"-24	K1M	2DZJ3	—
	0.028"	⅜"-24	K1M	2DZJ4	—
	0.028"	JT1	K1M	2DZJ2	—

Medium-Duty
2YCR8

High Torque
4LHF5

High Torque w/Shank
2YCP3

High Precision
4LHH6

LLAMBRICH USA Jacobs CHUCK

Keyless Chucks

Designed for high accuracy applications on conventional or CNC equipment.

Medium-Duty—Self-tightening feature automatically increases gripping force proportional to increased torque, preventing tool shank slippage in clockwise rotation. Automatic fitting eases quick tool changes.

High Torque—In addition to the features listed for Medium-Duty Chucks, these models have milled wrench flats and spanner, allowing for supplementary gripping torque. Light tightening increases gripping torque up to 3 times over hand tightening. Right-hand rotation and instant spindle stop make chucks resistant to tool loosening on high-speed machines.

High Torque With Shank—Integrated design keeps arbor and drill chuck together. Compact design minimizes accumulated run-out. Precision tested and certified to 0.0016" (0.04 mm) T.I.R. maximum at maximum capacity. For right-hand rotation applications only.

High Precision—Self-tightening feature automatically increases gripping force proportional to increased torque, preventing tool shank slippage. Automatic fitting eases fast tool changes. Precision tested and certified to 0.0016" (0.04 mm) T.I.R. maximum at maximum capacity.

Capacity Max.	Capacity Min.	Mounting Size	LLAMBRICH USA Item No.	JACOBS Item No.
Medium Duty				
0.315"	0"	JT1	4LHD8	—
	0"	JT2	4LHD9	—
	0.031"	⅜"-24	4LHD7	—
0.394"	0"	½"-20	4LHE2	—
	0"	JT2	4LHE3	—
	0.031"	⅜"-24	4LHE1	—
0.512"	0.039"	⅜"-24	4LHE4	—
	0.039"	½"-20	—	2YCR7
	0.039"	JT2	4LHE7	2YCR9
	0.039"	JT33	—	2YCR8
	0.039"	JT6	4LHE8	2YCT1
0.625"	0.125"	JT33	4LHE6	—
0.630"	0.039"	½"-20	4LHE9	—
	0.118"	⅝ in -16	4LHF1	—
	0.118"	JT6	4LHF2	—
0.787"	0.197"	JT3	4LHF3	—
High Torque				
0.255"	0"	JT1	4LHG2	2YCN3
0.315"	0"	JS2	4LHF4	—
0.394"	0"	JT2	4LHG1	2YCK3
	0"	JT33	4LHF9	—
0.512"	0.039"	JT2	4LHF5	2YCJ7
	0.039"	JT33	4LHF6	2YCJ8
	0.039"	JT6	4LHF7	2YCJ9
0.630"	0.118"	JT6	4LHF8	2YCK1
High Torque w/Intergrated Shank				
0.315"	0"	MT2	4LHG3	—
0.394"	0"	MT2	4LHG4	2YCN8
0.512"	0.039"	⅝ in -16	4LHG9	—
	0.039"	MT2	4LHG5	2YCN9
	0.039"	MT3	4LHG6	2YCP1
	0.039"	MT4	4LHG7	2YCP2
	0.039"	R8	4LHG8	2YCP3
0.630"	0.118"	MT2	4LHH1	—
	0.118"	MT3	4LHH2	2YCP6
	0.118"	MT4	4LHH3	2YCP7
	0.118"	R8	4LHH4	2YCP8
High Precision				
0.118"	0"	5/16"-24	4LHH8	—
	0"	JT0	4LHH6	—
	0"	JT1	4LHH7	—
0.255"	0.012"	JT1	4LHH5	2YCN2
0.315"	0.012"	JS2	4LHH9	2YCT7
0.394"	0.020"	JT2	—	3P040
	0.020"	JT33	4LHJ1	3P042
0.512"	0.039"	JT2	4LHJ3	2YCU2
	0.039"	JT33	4LHJ4	—
	0.039"	JT6	4LHJ5	2YCU3
0.630"	0.118"	JT6	4LHJ6	2YCU4

Arbors

Arbors adapt Morse taper to Jacobs® taper; Morse taper to threaded shank; and Bridgeport taper. Precision CNC-machined and ground for high-accuracy performance and close-tolerance fit. Wedge sets are used to remove taper mount chucks from arbors. Also remove Jacobs® tapers Nos. 4 and 5; stack Nos. 3 and 6 wedge sets together.

Spindle End	Chuck End	AO No.	Item No.
Morse to Jacobs® Taper			
2MT	2JT	202	3N054
2MT	3JT	203	3N056
2MT	4JT	204	3N063
2MT	6JT	206	3N065
2MT	33JT	233	3N092
3MT	2JT	302	3N096
3MT	3JT	303	3N098
3MT	4JT	304	3N100
3MT	5JT	305	3N163
3MT	6JT	306	3N165
3MT	33JT	333	3N167
4MT	3JT	403	3N209
4MT	4JT	404	3N211
Morse to Threaded Shank			
2MT	⅜"-24	261	3N999
2MT	½"-20	264	3P002
Bridgeport Tapers			
0.490"	2JT	802	3N448
0.750"	3JT	803	3N457
0.620"	6JT	806	3N459
Wedge Sets (Pair)			
Used on 1JT			3L844
Used on 2JT			3L846
Used on 3JT			3L848
Used on 6JT			3L850

Morse to Jacobs® 3N098

Morse to Threaded Shank 3N999

Bridgeport Taper 3N448

Wedge Set 3L844

Drill Sleeve 3L892

Extension Socket 3L930

Hand Drift Tool 2XUU6

Drill Sleeves and Extension Sockets

Morse Taper Drill Sleeves—Adapt smaller Morse taper shank tools to larger machine spindles.

- Archer Series 600

Morse Taper Extension Sockets—Extend tool lengths and application distances while adapting for increases or decreases in applied tool Morse taper sizes.

- Archer Series 800

Hand Drift Tool—Removes taper shank tools from machinery spindles, sleeves, and extension sockets.

Outside Morse Taper	Inside Morse Taper	Overall Length (in.)	Extension Length (in.)	Dia. (in.)	Brand	Item No.
Drill Sleeves, Archer Series 600						
2	1	3.62 in	—	—	Jacobs	3L892
3	1	3.88 in	—	—	Jacobs	3L896
4	3	5.5 in	—	—	Jacobs	3L898
5	4	6.69 in	—	—	Jacobs	3L904
Extension Sockets, Archer Series 800						
2	2	6.89 in	3.58 in	1.18 in	Jacobs	3L918
	3	7.72 in	4.41 in	1.42 in	Jacobs	3L920
4	3	9.45 in	4.41 in	1.42 in	Jacobs	3L930
	4	10.43 in	5.39 in	1.89 in	Jacobs	3L932
	5	11.81 in	6.77 in	2.48 in	Jacobs	3L934
Hand Drift Tool						
15" Long, Fits #2, #3, #4, #5					Dayton	2XUU6

Chuck Keys

Handles are constructed of soft steel to reduce fracture risk under excessive loads. Nickel thumb grip handles offer increased leverage and user comfort. Spring-loaded, self-ejecting models ensure key disengagement after tightening.

T-Handle 4YP17

Chuck Key Size	Pilot Size (in.)	Item No.
Standard T-Handle		
K0	⅛	3L982
K1	5⁄32	3L984
K5	7⁄16	3L992
KK	9⁄32	4YP18
KG1	¼	4YP17
Standard Thumb Handle		
K2	¼	4YP25
K3	5⁄16	3L986
K3C	5⁄16	3L988
K4	⅜	3L990
K7	7⁄32	3L994
K30	15⁄64	3L996
K32	¼	3L998
Self-Ejecting		
S K3C	5⁄16	3L868
S KK	9⁄32	3L980

Thumb Handle 4YP25

RX Series Tapping Head 2ZCJ9

Arbor 2ZAX7

Tapping Heads, Torque Bars, and Arbors

Rx Series—For increased production in manual tapping applications.

Torque Bars—Mount securely to prevent tapping attachment's stop arm from rotating. Table-mounted bars mount to T-slots of table. Quill-mounted bars clamp around the quill of the machine.

Cap. in 1010 Mild Steel	Mount	Max. RPM	Mfr. Model	Item No.	
Rx Series Reversing Tapping Heads					
#0-1/4"	#6 JT	2000	13006	2ZAW6	
	#33 JT	2000	13033	2ZCK2	
	5⁄16-24	2000	13031	2ZCJ9	
	⅜-24	2000	13037	2ZCK4	
	½-20	2000	013050	2ZCK6	
	⅝-16	2000	13062	2ZCK8	*
#6-1/2"	#6 JT	1500	15006	2ZCL1	
	#33 JT	1500	15033	2ZCL3	
	½-20	1500	15050	2ZCL5	
	⅝-16	1500	15062	2ZCL7	*
	¾-16	1500	15075	2ZCL9	*
#10-3/4"-16	#3 JT	1200	17003	2ZCN2	
	⅝-16	1200	17062	2ZCN4	*
	¾-16	1200	17075	2ZCN6	*
	⅞-20	1200	17087	2ZCN8	

Description	Capacity	Dia.	Mfr. Model	Item No.
Torque Bars for Rx Series				
Table-Mount	¾ Tap	—	29097	2ZAX1
	1¾ Tap	—	29096	2ZAW8
Quill-Mount	½	1½ to 2⅜"	29099	2ZAX3
	¾	2⅜ to 4½"	290991	2ZAX5

Type	Jacobs Taper	Shank Dia.	Thread Size (in.)	Overall Length (in.)	Mfr. Model	Item No.
Arbors for Rx Series						
Cutter	—	1 in	⅞-20	3⅞	20087	2ZAX7
	—	½ in	⅜-24	1¾	25037	2ZAY8
	#33	½ in	—	3⅝	25033	2ZAY6
	#33	—	—	4¼	20233	2ZAX9
	#33	—	—	4½	20333	2ZAY2
	#33	—	—	5¼	20833	2ZAY4

** For Burgmaster machines.*

Plain

Serrated End

Tapped End

Nuzzler Edge

Clamp Support

TE-CO

Clamps

- Black oxide finish

PLAIN

Tapered nose allows clamping in tight spaces.

SERRATED END

Serrated teeth engage into teeth of step blocks for clamping in machining operations.

TAPPED END

For single-point clamping. Tapped hole in end for supporting stud.

NUZZLER EDGE

Adjustable, double-action nose exerts clamping pressure downward and inward, and has serrations for better gripping of non- or semi-finished workpieces. Low grip style provides greater machining clearance.

CLAMP SUPPORT

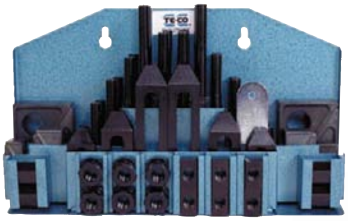
Includes washer, spring, and shaft collar. Helps prevent clamp from falling when attached to clamp stud.

Clamp Type	Width	Length	Thickness	Slot Size (in.)	Item No.
Fixture					
Plain Clamp	1"	2½"	½ in	5⁄16 and ⅜	**2YGU7**
	1⅛"	2½"	½ in	½	**2YGV1**
	1¼"	2½"	⅝ in	⅝	**2YGV4**
	1½"	4"	¾ in	⅝	**2YGV5**
	1½"	6"	1 in	¾	**2YGV8**
	1¾"	8"	1 ⅛ in	¾	**2YGV9**
	2"	6"	1 ¼ in	⅞ and 1	**2YGW1**
	2"	8"	1 ⅜ in	⅞ and 1	**2YGW2**
	2"	10"	1 ½ in	⅞ and 1	**2YGW3**
Serrated End	1"	2½"	½ in	¼, 5⁄16, ⅜	**2YGY5**
	1"	4"	⅝ in	¼, 5⁄16, ⅜	**2YGY6**
	1⅛"	2½"	½ in	½	**2YGY8**
	1¼"	4"	¾ in	½	**2YGY9**
	1¼"	6"	⅞ in	½	**2YGZ1**
	1½"	6"	⅞ in	⅝	**2YGZ4**
	1½"	6"	1 in	¾	**2YGZ6**
	1¾"	8"	1 ⅛ in	¾	**2YGZ7**
	2"	6"	1 ¼ in	⅞, 1	**2YGZ8**
	2"	8"	1 ⅜ in	⅞, 1	**2YGZ9**
	2"	10"	1 ½ in	⅞, 1	**2YHA1**
Tapped End	⅝"	'2"	⅜ in	¼	**2YGW4**
	1"	3¼"	½ in	5⁄16	**2YGW7**
	1"	3¾"	½ in	5⁄16	**2YGW6**
	1"	4"	½ in	5⁄16	**2YGW8**
	1¼"	4"	⅝ in	⅜	**2YGX1**
	1¼"	4½"	⅝ in	½	**2YGX4**
	1¼"	5"	⅝ in	⅜	**2YGX2**
	1¼"	5"	⅝ in	½	**2YGX5**
	1½"	4½"	¾ in	⅝	**2YGX7**
	1½"	5"	¾ in	⅝	**2YGX8**
	1½"	5½"	¾ in	⅝	**2YGX9**
	1½"	6"	¾ in	⅝	**2YGY1**
	1¾"	7"	1 in	¾	**2YGY3**
	1¾"	8"	1 in	¾	**2YGY4**

Width	Length	Thickness	Slot Size (in.)	STANDARD GRIP Item No.	LOW GRIP Item No.
Fixture					
1"	1⅞"	⅝ in	5⁄16	**2YGT5**	**2YGT4**
1¼"	25⁄16"	⅝ in	⅜	**2YGT7**	**2YGT6**
1½"	35⁄16"	¾ in	½	**2YGT9**	**2YGT8**
	3⅞"	⅞ in	½	**2YGU2**	**2YGU1**
	53⁄16"	¾ in	½	**2YGU4**	**2YGU3**
	53⁄16"	⅞ in	½	**2YGU6**	**2YGU5**

For Use With	Item No.
Clamp Support	
½ in Clamping Stud	**2YHA5**

51-Pc. Set
2YGL6



54-Pc. Set
2YGP5

66-Pc. Set
19T325

TE-CO WESTWARD®

Clamping Kits

- For replacement parts, see Grainger.com®

51-PC. SETS

Include 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 4 flange nuts, 4 T-slot nuts, 1 T-slot cleaner, 24 studs, wooden base, and metal tray.

54-PC. SETS

Include 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 6 flange nuts, 6 T-slot nuts, 1 T-slot cleaner, 24 studs, and machine-mounted holder. 2YGP8 comes in plastic case and does not include cleaner.

66-PC. SET

Includes 6 step blocks, 6 serrated end clamps, 4 coupling nuts, 6 flange nuts, four 9⁄16" T-slot nuts, four ⅝" T-slot nuts, 24 studs (4 each: 3", 4", 5", 6", 7" and 8" length), 1 T-slot cleaner, two 1¾" wide U-clamp sets (consisting of 2 each 5" studs, flange nuts, ball joint U-clamps, and 9⁄16" T-slot nuts), and storage rack.

Slot Size	Thread Size	For Use With	Brand	Item No.	
51-Pc. Sets					
½ in	—	⅜"-16 Stud Size	Te-Co	**2YGL6**	
9⁄16 in	—	½"-13 Stud Size	Te-Co	**2YGL7**	
⅝ in	—	½"-13 Stud Size	Te-Co	**2YGL8**	*
	—	½"-13 Stud Size	Te-Co	**2YGN3**	*†
11⁄16 in	—	½"-13 Stud Size	Te-Co	**2YGL9**	
	—	⅝"-11 Stud Size	Te-Co	**2YGN1**	
	—	⅝"-11 Stud Size	Te-Co	**2YGN4**	†
¾ in	—	⅝"-11 Stud Size	Te-Co	**2YGN2**	
13⁄16 in	—	¾"-10 Stud Size	Te-Co	**2YGN5**	
⅞ in	—	¾"-10 Stud Size	Te-Co	**2YGN6**	
52-Pc. Sets					
5⁄16 in	5⁄16"-18	Drilling Machines, Lathes, Milling Machines	Westward	**19T326**	
	⅜"-16	Drilling Machines, Lathes, Milling Machines	Westward	**19T327**	
	⅜"-16	Drilling Machines, Lathes, Milling Machines	Westward	**19T328**	
½ in	M10x1.5	Drilling Machines, Lathes, Milling Machines	Westward	**19T330**	
9⁄16 in	⅜"-16	Drilling Machines, Lathes, Milling Machines	Westward	**19T329**	
⅝ in	⅝"-11	Drilling Machines, Lathes, Milling Machines	Westward	**19T336**	
	M16x2	Drilling Machines, Lathes, Milling Machines	Westward	**19T338**	
14.00mm	M12x1.75	Drilling Machines, Lathes, Milling Machines	Westward	**19T331**	
	½"-13	Drilling Machines, Lathes, Milling Machines	Westward	**19T332**	
	½"-13	Drilling Machines, Lathes, Milling Machines	Westward	**19T333**	
54-Pc. Sets					
½ in	—	⅜"-16 Stud Size	Te-Co	**2YGP5**	
9⁄16 in	—	½"-13 Stud Size	Te-Co	**2YGP6**	
⅝ in	—	½"-13 Stud Size	Te-Co	**2YGP7**	*
	—	½"-13 Stud Size	Te-Co	**2YGP8**	*
11⁄16 in	—	½"-13 Stud Size	Te-Co	**2YGP9**	
	—	⅝"-11 Stud Size	Te-Co	**2YGR1**	
¾ in	—	⅝"-11 Stud Size	Te-Co	**2YGR2**	
66-Pc. Set					
½ in	½"-13	Drilling Machines, Lathes, Milling Machines	Westward	**19T325**	

** Use on Bridgeport machines. † 1½" thick step block.*

MITEE-BITE PRODUCTS LLC

Pitbull® Low-Profile Clamps

Workholding clamps have a low gripping profile that generates high clamping forces compared to other compact clamps. Use Blunt Edge models for general purpose applications. Knife Edge models are your best choice for aggressive stock removal.

Clamp Type	Holding Force	Thread Size	Thread Length	Dia.	Overall Depth/Width	Item No.
SAE						
Blunt Edge, Low Profile	200 lb	#4-40	⅜ in	7/64"	⅜"	**34CV67**
	400 lb	#8-32	½ in	11/64"	½"	**34CV70**
	650 lb	#4-40	⅜ in	7/64"	⅜"	**34CV66**
	1500 lb	#8-32	½ in	11/64"	½"	**34CV69**
	3600 lb	¼"-20	¾ in	¼"	¾"	**34CV72**
	6000 lb	⅜"-16	1 in	⅜"	1"	**34CV75**
	12,000 lb	½"-13	1¼ in	½"	1½"	**34CV77**
Knife Edge, Low Profile	1500 lb	#8-32	½ in	11/64"	½"	**34CV68**
	3600 lb	¼"-20	¾ in	¼"	¾"	**34CV71**
	6000 lb	⅜"-16	1 in	⅜"	1"	**34CV74**
	12,000 lb	½"-13	1¼ in	½"	1½"	**34CV76**
Metric						
Blunt Edge, Low Profile	4200 N	M6	16.00mm	6mm	19.05mm	**34CV86**
	6600 N	M4	12.00mm	4mm	12.70mm	**34CV82**
	16,000 N	M6	16.00mm	6mm	19.05mm	**34CV85**
Knife Edge, Low Profile	2800 N	M2.5	8.00mm	2.50mm	9.52mm	**34CV78**

2YJJ6

TE-CO

T-Slot Nuts

Durable, case-hardened, black oxide finish. Last thread is incomplete to prevent stud from turning through the bottom of the nut. Undersized to fit machine table slot.

Thread Size (in.)	Table Slot Size	Base Length (in.)	Item No.
¼-20	5/16 in	9/16	**2YJJ6**
5/16-18	⅜ in	⅞	**2YJJ7**
⅜-16	7/16 in	⅞	**2YJK7**
	½ in	⅞	**2YJK8**
	9/16 in	⅞	**2YJK9**
½-13	9/16 in	1⅛	**2YJL1**
	⅝ in	1⅛	**2YJL2**
	11/16 in	1¼	**2YJL3**
⅝-11	11/16 in	1¼	**2YJL4**
	¾ in	1¼	**2YJL5**
	13/16 in	1½	**2YJL6**
¾-10	13/16 in	1½	**2YJL7**
	⅞ in	1½	**2YJJ8**
	1 in	1¾	**2YJJ9**
1-8	1 1/16 in	2	**2YJK1**

Swing Bolt

Eye Bolt

TE-CO

Swing Bolts and Eyebolts

Steel bolts with black oxide finish. Reamed hole allows for smooth bearing surface. Use as a stationary hinge-pivot point, with a shoulder for positive stop location.

Thread Size (in.)	Ream (in.)	Length from Ream Center (in.)	Item No.
Swing Bolts			
¼-20	¼	1½	**2YJP1**
	¼	2½	**2YJK2**
	¼	2⅝	**2YJK3**
5/16-18	5/16	2	**2YJK4**
⅜-16	⅜	2½	**2YJP2**
	⅜	3½	**2YJK5**
½-13	½	3⅛	**2YJP3**
	½	4⅛	**2YJP4**
¾-10	¾	4½	**2YJK6**

Thread Size	Eye Inside Dia.	Length from Ream Center	Item No.
Eyebolts			
¼"-20	3/16 in	2 in	**2YJL8**
	3/16 in	3 in	**2YJL9**
5/16"-18	¼ in	3 in	**2YJN1**
⅜"-16	5/16 in	3 in	**2YJN2**
	⅜ in	3 in	**2YJN3**
	⅜ in	3.75 in	**2YJN4**
	⅜ in	5 in	**2YJN5**
½"-13	⅜ in	3.75 in	**2YJN6**
	⅜ in	5 in	**2YJN7**
⅝"-11	⅝ in	4.5 in	**2YJN8**
	⅝ in	6 in	**2YJN9**
¾"-10	¾ in	4.5 in	**2YJJ5**

TE-CO

Step Blocks

Work with serrated end clamps to provide clamp support. Larger sizes have chamfered holes to tolerate more shock.

Size	Range	Item No.
1" Thick	¾ to 1⅝"	**2YGR3**
	1⅛ to 2½"	**2YGR4**
	2½ to 6"	**2YGR5**
1½" Thick	1¾ to 4"	**2YGR6**
	2½ to 6"	**2YGR7**
	3½ to 9"	**2YGR8**
2" Thick	1¾ to 4"	**2YGR9**
	2½ to 6"	**2YGT1**
	3½ to 9"	**2YGT2**

2YGR3

Flange Nut

Swivel Flange Nut

Spherical Flange Nut Assembly

TE-CO

Flange Nuts

Flange—Case-hardened steel with black oxide finish, or stainless steel.

Swivel Flange—Head rotates while washer remains stationary. Hold rigidly on contact, without marring workpiece.

Spherical Flange—Design compensates for slight misalignment of clamp to workpiece to provide proper clamping force. Assemblies include flange nut and spherical washer.

		Flange Nuts STEEL		Flange Nuts STAINLESS STEEL		Swivel Flange Nuts STEEL	
Thread Size	Hex Width (in.)	Height (in.)	Item No.	Height (in.)	Item No.	Height (in.)	Item No.
¼-20	½	5/16	**2YHE1**	5/16	**2YJC1**	⅜	**2YHH2**
5/16-18	9/16	⅜	**2YHE2**	⅜	**2YJC2**	—	—
⅜-16	11/16	½	**2YHE3**	½	**2YJC3**	17/32	**2YHH4**
½-13	⅞	11/16	**2YHE4**	11/16	**2YJC4**	23/32	**2YHH5**
⅝-11	1 1/16	13/16	**2YHE5**	13/16	**2YJC5**	29/32	**2YHH6**
¾-10	1¼	1	**2YHE6**	1	**2YJC6**	1 1/64	**2YHH7**
1-8	1⅝	1¼	**2YHE8**	—	—	1 15/64	**2YHH8**

Thread Size	Hex Size (in.)	Height (in.)	STEEL Item No.	STAINLESS STEEL Item No.
Spherical Flange Nut Assemblies				
⅜-16	11/16	0.66	**2YHF9**	**2YHG7**
½-13	⅞	0.879	**2YHG1**	**2YHG8**
⅝-11	1 1/16	1043	**2YHG2**	**2YHG9**
¾-10	1¼	1.269	**2YHG3**	**2YHH1**
1-8	1⅝	1.544	**2YHG4**	—

TE-CO

Steel

Washers

Flat washers prevent marring to object by distributing load that nut applies to clamp or workpiece.

		Steel		Stainless Steel	
Washer Outside Dia.	Washer Inside Dia.	Thickness	Item No.	Thickness	Item No.
5/16"	⅛"	0.078 in	**787RC6**	0.078 in	**787RF0**
⅜"	5/32"	0.078 in	**787RC7**	0.078 in	**787RF1**
7/16"	3/16"	0.078 in	**787RC8**	0.078 in	**787RF2**
½"	13/64"	0.094 in	**787RA4**	0.094 in	**787RD8**
⅝"	9/32"	0.125 in	**787RA5**	0.125 in	**787RD9**
	9/32"	0.188 in	**787RC9**	—	—
¾"	11/32"	0.125 in	**787RA6**	0.125 in	**787RE0**
	11/32"	0.188 in	**787RD0**	—	—
⅞"	13/32"	0.125 in	**787RA7**	0.125 in	**787RE1**
	13/32"	0.188 in	**787RD1**	—	—
1"	15/32"	0.125 in	**787RA8**	0.125 in	**787RE2**
	15/32"	0.188 in	**787RD2**	—	—
1⅛"	17/32"	0.125 in	**787RA9**	0.125 in	**787RE3**
	17/32"	0.188 in	**787RD3**	—	—
1⅜"	21/32"	0.125 in	**787RC0**	0.125 in	**787RE4**
	21/32"	0.188 in	**787RD4**	—	—
1⅝"	25/32"	0.156 in	**787RC1**	0.156 in	**787RE5**
	25/32"	0.25 in	**787RD5**	—	—
1¾"	29/32"	0.156 in	**787RC2**	0.156 in	**787RE6**
	29/32"	0.25 in	**787RD6**	—	—
2"	1 1/32"	0.188 in	**787RC3**	0.188 in	**787RE7**
	1 1/32"	0.281 in	**787RD7**	—	—
2¼"	1 5/32"	0.219 in	**787RC4**	0.219 in	**787RE8**
2½"	1 9/32"	0.281 in	**787RC5**	0.281 in	**787RE9**

Hand Knob

Knurled Knob

TE-CO

Dog Point Screws

Dog point prevents damage to end threads.

Hand Knob—Use when hand tightening is necessary for holding or clamping. 4-point aluminum knob. Steel stem with black oxide finish.

Knurled Head—Use for light clamping and holding. Knurled head allows better grip. Head and stem are steel with black oxide finish.

Thread Size	Screw Length	Overall Length	Item No.
Hand Knob			
¼"-20	1.50 in	2.25"	**3LCE4**
	2.00 in	2.75"	**3LCE5**
	2.50 in	3.25"	**3LCE6**
5⁄16"-18	2.00 in	2.875"	**3LCE7**
	2.50 in	3.125"	**3LCE8**
⅜"-16	2.0625 in	3.0625"	**3LCE9**
	2.5625 in	3.5625"	**3LCF1**
	3.0625 in	4.0625"	**3LCF2**
½"-13	2.5625 in	4.0625"	**3LCF3**
	3.0625 in	4.5625"	**3LCF4**
	3.5625 in	5.0625"	**3LCF5**

Thread Size	Screw Length	Overall Length	Item No.
Knurled Head			
#10-24	1.00"	1.25"	**3LCF6**
#10-32	1.50"	1.75"	**3LCF9**
¼"-20	2.00"	2.3125"	**3LCG1**
	2.50"	2.8125"	**3LCG2**
	1.50"	1.8125"	**3LCG3**
5⁄16"-18	1.50"	1.875"	**3LCG4**
	2.00"	2.375"	**3LCG5**
	2.50"	2.875"	**3LCG6**
⅜"-16	2.00"	2.4375"	**3LCG7**
	2.50"	2.9375"	**3LCG8**
	3.00"	3.4375"	**3LCG9**
½"-13	3.00"	3.4375"	**3LCH1**
	3.50"	3.9375"	**3LCH2**

MITEE-BITE PRODUCTS LLC

Fixture Clamps

Cam-action workholding clamps provide fast, strong clamping, and have a low profile design. Simple, 2-component design helps keep maintenance costs low, and the small size allows more parts per load.

Note: Clockwise rotation is recommended. Workpiece stop should be on the right of clamp.

Material	Holding Force	Thread Size	Dia.	Overall Height	Overall Width	Item No.	Pkg. Qty.
SAE							
Brass/Steel	350 lb	#10-32	3⁄16"	½"	½ in	**34CU45**	10
	800 lb	¼"-20	¼"	21⁄32"	⅝ in	**34CU46**	10
	800 lb	5⁄16"-18	5⁄16"	21⁄32"	13⁄16 in	**34CU48**	12
	2000 lb	⅜"-16	⅜"	61⁄64"	13⁄16 in	**34CU49**	10
	4000 lb	½"-13	½"	1 17⁄64"	1 in	**34CU50**	8
Metric							
Brass/Steel	910 N	M4	4mm	12.40mm	7.93mm	**34CU52**	10
	3558 N	M8	8mm	19.55mm	20.61mm	**34CU54**	12

Aluminum Disc

Novo Grip No Handle

Aluminum 2-Spoke

Novo Grip Revolving Handle

Kipp®

Handwheels

Novo Grip gray thermoplastic wheels have steel insert and matte black finish. Aluminum wheels are lightweight with a polished finish.

Dia.	Bore	NO HANDLE Item No.	REVOLVING HANDLE Item No.	FOLD AWAY HANDLE Item No.
Novo Grip				
3.15"	0.375"	**3DDJ6**	**3DDK9**	**3DDN3**
3.94"	0.375"	**3DDJ8**	**3DDL2**	**3DDN5**
	0.50"	**3DDK1**	**3DDL4**	**3DDN7**
4.92"	0.50"	**3DDK3**	**3DDL6**	**3DDN8**
6.3"	0.50"	**3DDK5**	**3DDL8**	**3DDP1**
	0.625"	**3DDK7**	**3DDN1**	**3DDP3**

Dia.	Bore	NO HANDLE Item No.	FIXED HANDLE Item No.	REVOLVING HANDLE Item No.
Aluminum Disc				
3.15"	0.375"	**3GJY7**	**3GJZ5**	**3GKA3**
3.94"	0.50"	**3GJY8**	**3GJZ6**	**3GKA4**
4.92"	0.50"	**3GJY9**	**3GJZ7**	**3GKA5**
5.51"	0.625"	**3GJZ1**	**3GJZ8**	**3GKA6**
6.3"	0.625"	**3GJZ2**	**3GJZ9**	**3GKA7**
7.87"	0.75"	**3GJZ3**	**3GKA1**	**3GKA8**
9.87"	0.875"	**3GJZ4**	**3GKA2**	**3GKA9**
Aluminum 2-Spoke				
3.15"	0.375"	**3GKC1**	**3GKC7**	**3GKD4**
3.94"	0.50"	**3GKC2**	**3GKC8**	**3GKD5**
4.92"	0.50"	**3GKC3**	**3GKC9**	**3GKD6**
6.3"	0.625"	**3GKC4**	**3GKD1**	**3GKD7**
7.87"	0.75"	**3GKC5**	**3GKD2**	**3GKD8**
9.84"	0.875"	**3GKC6**	**3GKD3**	**3GKD9**

Dovetail Fixtures and Cutters

RAPTOR WORKHOLDING PRODUCTS

▪ For accessories, see Grainger.com®

Made to hold part on 4- and 5-axis CNC machines. Fixtures provide rigid clamping while exposing 5 faces of the workpiece. Spring-loaded clamps require a small amount of material to hold the workpiece. Prepare all parts with a single dovetail and utilize the same fixture for every part.

467W42

467W84

Max. Workpiece Weight	Max. Workpiece Size	No. of Clamps	Dovetail Height	Dovetail Width	Fixture Height	Max. Workpiece Size	Bolt Circle Dia.	Mfr. Model	Item No.
Machine Vise									
17-4 Stainless Steel									
6 lb.	3 ¼ in x 3 ¼ in	1	0.125"	0.500"	2 ⅛ in	3 ¼ in x 3 ¼ in	—	RWP-017SS	**467W67**
7 lb.	3 ¾ in x 3 ¾ in	1	0.125"	0.750"	2 ⅛ in	3 ¾ in x 3 ¾ in	—	RWP-007SS	**467W56**
	3 ¾ in x 3 ¾ in	1	0.125"	0.750"	2 in	3 ¾ in x 3 ¾ in	—	RWP-011SS	**467W57**
	3 ¾ in x 3 ¾ in	1	0.125"	0.750"	2 in	3 ¾ in x 3 ¾ in	—	RWP-012SS	**467W58**
12 lb.	5 in x 5 in	2	0.125"	0.750"	1 ¼ in	5 in x 5 in	—	RWP-038SS	**467W65**
25 lb.	6 ⅜ in x 6 ⅜ in	2	0.125"	0.750"	3 in	6 ⅜ in x 6 ⅜ in	—	RWP-002SS	**467W54**
30 lb.	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	2 in	6 ¾ in x 6 ¾ in	—	RWP-013SS	**467W48**
	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	3 in	6 ¾ in x 6 ¾ in	—	RWP-001SS	**467W45**
	—	2	0.125"	1.500"	2 in	—	—	RWP-036SS	**467W51**
40 lb.	7 ½ in x 7 ½ in	3	0.125"	0.750"	2 in	7 ½ in x 7 ½ in	—	RWP-034SS	**467W64**
	7 ½ in x 7 ½ in	3	0.125"	0.750"	3 in	7 ½ in x 7 ½ in	—	RWP-030SS	**467W63**
168 lb.	12 in x 12 in	2	0.187"	2.250"	3 ⅞ in	12 in x 12 in	—	RWP-006SS	**467W43**
225 lb.	8 in x 10 in	—	0.250"	2.750"		8 in x 10 in	—	RWP-403SS-12	**467W41**
Aluminum									
0.284 lb.	1 ¼ in x 1 ¼ in	1	0.078"	0.281"	1 ½ in	1 ¼ in x 1 ¼ in	—	RWP-031SS	**467W74**
	1 ¼ in x 1 ¼ in	1	0.078"	0.281"	1 7⁄16 in	1 ¼ in x 1 ¼ in	—	RWP-032SS	**467W75**
2 lb.	2 ½ in x 2 ½ in	1	0.125"	0.500"	1 ¼ in	2 ½ in x 2 ½ in	—	RWP-019SS	**467W71**
3 lb.	3 in x 3 in	1	0.125"	0.750"	1 ½ in	3 in x 3 in	—	RWP-003	**467W55**
6 lb.	3 ¼ in x 3 ¼ in	1	0.125"	0.500"	2 in	3 ¼ in x 3 ¼ in	—	RWP-022SS	**467W70**
10 lb.	4 ¾ in x 4 ¾ in	2	0.125"	0.500"	3 in	4 ¾ in x 4 ¾ in	—	RWP-018	**467W68**
12 lb.	5 in x 5 in	2	0.125"	0.500"	3 in	5 in x 5 in	—	RWP-018SS	**467W69**
12.5 lb.	4 in x 4 in	1	0.125"	0.750"	1 ½ in	4 in x 4 in	—	RWP-024	**467W61**
	8 in x 4 in	3	0.125"	0.750"	4 in	8 in x 4 in	—	RWP-025	**467W62**
16 lb.	8 ½ in x 4 in	2	0.125"	0.750"	2 13⁄16 in	8 ½ in x 4 in	—	RWP-024-2XR	**467W79**
18 lb.	5 51⁄64 in x 5 51⁄64 in	2	0.125"	0.750"	3 in	5 51⁄64 in x 5 51⁄64 in	—	RWP-002	**467W53**
	5 ¾ in x 5 ¾ in	2	0.125"	0.750"	2 in	5 ¾ in x 5 ¾ in	—	RWP-015	**467W59**
	5 ¾ in x 5 ¾ in	2	0.125"	0.750"	3 in	5 ¾ in x 5 ¾ in	—	RWP-023	**467W60**
20 lb.	6 in x 6 in	2	0.125"	1.500"	3 in	6 in x 6 in	—	RWP-027	**467W50**
30 lb.	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	2 in	6 ¾ in x 6 ¾ in	3 47⁄64"	RWP-004	**467W46**
	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	2 in	6 ¾ in x 6 ¾ in	3 51⁄64"	RWP-013	**467W47**
	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	3 in	6 ¾ in x 6 ¾ in	3 51⁄64"	RWP-001	**467W44**
	6 ¾ in x 6 ¾ in	2	0.125"	1.500"	3 in	6 ¾ in x 6 ¾ in	4"	RWP-026	**467W49**
65 lb.	4 in x 14 in	4	0.125"	0.750"	3 in	4 in x 14 in	—	RWP-405	**467W66**
80 lb.	8 in x 10 in	2	0.187"	2.250"	3 ⅞ in	8 in x 10 in	—	RWP-006	**467W42**
140 lb.	17 in x 12 in	6	0.125"	1.500"	3 in	17 in x 12 in	—	RWP-401-11	**467W52**

For Use With	Item No.
Micro Dovetail Clamp Kit	
Mfr. No. RWP-031SS/-032SS	**467W93**
Mfr. No. RWP-008SS/-009SS/-010SS	**467W92**
Clamping Kit	
Mfr. No. RWP-019SS	**467W89**
Mfr. No. RWP-017SS/-018/-018SS/-022SS	**467W91**
Mfr. No. RWP-006/-006SS	**467W88**
Mfr. No. RWP-002/-002SS/-003/-003-4X/-007SS/-011SS/-012SS/-015/-023/-024/-025/-024-2XR/-024-3XR/-024-4XR/-405	**467W90**
Mfr. No. RWP-001/-001SS/-004/-013/-013SS/-401-11/-026/-027	**467W87**

Dia.	For Use With	Item No.
Vise Dovetail Cutter		
13⁄32"	Hard Materials, Steel, Titanium	**467W84**
¾"	Aluminum, Brass, Soft Materials	**467W83**
	Hard Materials, Steel, Titanium	**467W85**

U Bolt
3CXF2

J Hook
3CXD9

Closed Loop
3CXD7

DESTACO

Pull-Action Latch Clamps

- All clamps are made of steel (except where indicated)

Provide quick closure of covers and molds. Thumb-control lever for single-handed operation. Threaded hook for easy adjustment. Models with release lever prevent accidental opening due to vibration.

Holding Cap. (lb.)	Arm	Adjustable Range	Overall H (in.)	Overall L (in.)	Base Mounting Centers (in.)	Item No.	
Vertical							
500	U Bolt	0-0.50	1.91 in	3.49 in	0.50 x 0.88	3CXF1	
	U Bolt	0-0.50	1.91 in	3.49 in	0.50 x 0.88	3CXF4	*
1,000	U Bolt	0-0.80	2.37 in	4.1 in	0.75 x 1.00	3CXF2	
	U Bolt	0-0.80	2.37 in	4.1 in	0.75 x 1.00	3CXF5	*
2,000	U Bolt	0-1.26	3.39 in	5.77 in	1.25 x 1.44	3CXF3	
	U Bolt	0-1.26	3.39 in	5.77 in	1.25 x 1.44	3CXF6	*
Horizontal							
200	J Hook	0-0.25	1.43 in	6.01 in	0.50 x 1.22	3CXD9	
	J Hook	0-0.25	1.43 in	6.01 in	0.50 x 1.22	3CXE7	*
360	U Bolt	0-0.49	1.19 in	3.88 in	0.63 x 0.75	3CXN9	
	U Bolt	0-0.49	1.19 in	3.88 in	0.63 x 0.75	3CXE4	*
375	Closed Loop		1.91 in	8.33 in	0.75 x 1.25	3CXD7	
	J Hook	0-0.43	1.83 in	8.82 in	0.75 x 1.37	3CXP3	
450	J Hook	0-0.43	1.83 in	8.82 in	0.75 x 1.37	3CXP5	*
720	U Bolt	0-0.59	1.97 in	6.07 in	0.75 x 1.25	3CXP1	
	U Bolt	0-0.59	1.97 in	6.07 in	0.75 x 1.25	3CXE5	*
	U Bolt	0-0.49	2.01 in	6.07 in	0.75 x 1.25	3CXE8	**
	U Bolt	0-0.59	2.01 in	6.07 in	0.75 x 1.25	3CXF7	†
750	J Hook	0-0.81	2.58 in	11.89 in	1.25 x 1.94	3CXE1	
1,000	J Hook	0-0.93	2.9 in	13.45 in	1.13 x 2.37	3CXP4	
1,200	Closed Loop	—	2.44 in	9.49 in	1.25 x 1.78	3CXD8	
2,000	U Bolt	0-0.76	2.89 in	8.2 in	1.63 x 1.50	3CXP2	
	U Bolt	0-0.76	2.89 in	8.2 in	1.63 x 1.50	3CXE6	*
	U Bolt	0-0.76	2.89 in	8.2 in	1.63 x 1.50	3CXE9	**
	U Bolt	0-0.76	2.89 in	8.2 in	1.63 x 1.50	3CXF8	†
4,000	U Bolt	0-0.69	4.19 in	10.19 in	2.25 x 2.25	3CXE2	‡
	U Bolt	0-0.69	4.19 in	10.19 in	2.25 x 2.25	3CXF9	†‡
7,500	U Bolt	0-1.07	3.67 in	9.65 in	2.25 x 2.25	3CXE3	‡
	U Bolt	0-1.07	3.67 in	9.65 in	2.25 x 2.25	3CXG1	†‡

** Stainless steel. † With release lever. ** Stainless steel with release lever.*
‡ Latch plate not included.

Flat Cushion Neoprene
3CXP7

Hex Head Bolt
3CXR2

Hex Head Bolt
3CXP6

DESTACO

Squeeze-Action Clamps

- All clamps are made of steel (except where indicated)

Use to replace fasteners when permanent clamping is not possible. Forged steel jaws are tapped for adjustable spindles (supplied). Models with release lever offer single-handed opening.

Holding Cap. (lb.)	Spindle	Jaw Width (in.)	Jaw Depth (in.)	Overall L (in.)	Thread Size	Item No.	
200	Flat Cushion Neoprene	1.00	1.08	4.63	M6	3CXP7	
350	Hex Head Bolt	1.25	1.77	6.03	M8	3CXP8	
700	Swivel	3.00	2.72	8.51	M10	3CXP9	†
800	Hex Head Bolt	1.78	1.25	8.28	M12	3CXP6	
	Hex Head Bolt	1.78	1.25	8.28	M12	3CXR3	*
1200	Swivel Foot Bolt	1.75	2.56	9.15	M10	3CXR1	†
	Hex Head Bolt	3.88	2.56	9.15	M10	3CXR2	†

** Stainless steel. † With release lever.*

Vertical,
Flat Foot
48TN10

Horizontal,
Straight Foot
48TN05

Kipp®

Vertical and Horizontal Toggle Clamps

These clamps feature maintenance-free, high-quality swivel bushings. They allow for a consistent use of force when opening and closing. Optimum stability is achieved through the conical clamping arm with U-profile. Can be used on a variety of fixtures for applications where hold-down action can replace fasteners. Models with safety interlock include an internal bar lock with automatic safety catch.

Verical Handle—Feature 2 to 3 times the holding force with fewer pinch points for safety and durability.

Horizontal Handle—Provide a low profile for applications where minimum vertical height is required.

Holding Cap. (lb.)	Handle	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.
Vertical Handle, Straight Foot							
Steel Body							
139	90°	M5	4.74 in	2.5 in	1.21 in	0.63	48TN24
207	90°	M6	6.65 in	3.41 in	1.48 in	0.55	48TN25
211	90°	M8	7.89 in	4.21 in	1.93 in	0.83	48TN27
315	90°	M12	10.45 in	6.83 in	2.75 in	1.26	48TN31
337	90°	M10	9.74 in	6.02 in	2.45 in	1.26	48TN29
Steel Body w/Safety Interlock							
207	90°	M6	6.92 in	3.41 in	1.48 in	0.55	48TN26
211	90°	M8	8.17 in	4.21 in	1.93 in	0.83	48TN28
315	90°	M12	10.67 in	6.83 in	2.75 in	1.26	48TN32
337	90°	M10	10.0 in	6.02 in	2.45 in	1.26	48TN30
Stainless Steel Body							
139	90°	M5	4.75 in	2.5 in	1.22 in	0.06	48TN33
207	90°	M6	6.65 in	3.41 in	1.48 in	0.55	48TN34
211	90°	M8	7.89 in	4.21 in	1.93 in	0.83	48TN36
Stainless Steel Body w/Safety Interlock							
207	90°	M6	6.92 in	3.41 in	1.48 in	0.55	48TN35
211	90°	M8	8.17 in	4.21 in	1.93 in	0.83	48TN37
Vertical Handle, Flat Foot							
Steel Body							
139	90°	M5	4.27 in	2.62 in	0.75 in	0.63 x 0.94	48TN10
207	90°	M6	6.15 in	3.44 in	0.97 in	0.55 x 1.06	48TN11
211	90°	M8	7.25 in	4.23 in	1.29 in	0.83 x 1.26	48TN13
315	90°	M12	9.54 in	6.83 in	1.84 in	1.26 x 1.77	48TN17
337	90°	M10	8.81 in	6.02 in	1.52 in	1.26 x 1.77	48TN15
Steel Body w/Safety Interlock							
207	90°	M6	6.41 in	3.44 in	0.97 in	0.55 x 1.06	48TN12
211	90°	M8	7.53 in	4.23 in	1.29 in	0.83 x 1.26	48TN14
315	90°	M12	9.81 in	6.83 in	1.84 in	1.26 x 1.77	48TN18
337	90°	M10	9.07 in	6.02 in	1.52 in	1.26 x 1.77	48TN16
Stainless Steel Body							
139	90°	M5	4.27 in	2.62 in	0.75 in	0.63 x 0.94	48TN19
207	90°	M6	6.15 in	3.44 in	0.97 in	0.55 x 1.06	48TN20
211	90°	M8	7.25 in	4.23 in	1.29 in	0.83 x 1.26	48TN22
Stainless Steel Body w/Safety Interlock							
207	90°	M6	6.41 in	3.44 in	0.97 in	0.55 x 1.06	48TN21
211	90°	M8	7.53 in	4.23 in	1.29 in	0.83 x 1.26	48TN23
Horizontal Handle, Straight Foot							
Steel Body							
123 lb	180°	M5	2.06 in	4.95 in	1.03 in	0.71	48TM95
161 lb	180°	M6	2.95 in	7.35 in	1.45 in	1.02	48TM96
186 lb	180°	M8	3.47 in	8.78 in	1.83 in	1.02	48TM98
224 lb	180°	M12	5.06 in	12.39 in	2.99 in	1.73	48TN03
269 lb	180°	M10	4.5 in	11 in	2.35 in	1.63	48TN01
Steel Body w/Safety Interlock							
161 lb	180°	M6	2.95 in	7.61 in	1.45 in	1.02	48TM97
186 lb	180°	M8	3.47 in	9.07 in	1.83 in	1.02	48TM99
224 lb	180°	M12	5.06 in	12.65 in	2.99 in	1.73	48TN04
269 lb	180°	M10	4.5 in	11.26 in	2.35 in	1.63	48TN02
Stainless Steel Body							
123 lb	180°	M5	2.06 in	4.95 in	1.03 in	1.73	48TN05
161 lb	180°	M6	2.95 in	7.35 in	1.45 in	1.02	48TN06
186 lb	180°	M8	3.47 in	8.78 in	1.83 in	1.02	48TN08
Stainless Steel Body w/Safety Interlock							
161 lb	180°	M6	2.95 in	7.61 in	1.45 in	1.02	48TN07
186 lb	180°	M8	3.47 in	9.07 in	1.83 in	1.02	48TN09
Horizontal Handle, Flat Foot							
Steel Body							
56 lb	180°	M4	1.15 in	3.61 in	0.46 in	0.63 x 0.63	48TM79
123 lb	180°	M5	1.71 in	4.95 in	0.68 in	0.66 x 0.71	48TM80
161 lb	180°	M6	2.51 in	7.35 in	1 in	1.02 x 1.10	48TM81
186 lb	180°	M8	2.91 in	8.78 in	1.27 in	1.02 x 1.22	48TM83
224 lb	180°	M12	4.12 in	12.39 in	2.06 in	1.65 x 1.73	48TM87
269 lb	180°	M10	3.73 in	11 in	1.57 in	1.63 x 1.69	48TM85
Steel Body w/Safety Interlock							
161 lb	180°	M6	2.51 in	7.61 in	1 in	1.02 x 1.10	48TM82
186 lb	180°	M8	2.91 in	9.07 in	1.27 in	1.02 x 1.22	48TM84
224 lb	180°	M12	4.12 in	12.65 in	2.06 in	1.65 x 1.73	48TM88
269 lb	180°	M10	3.73 in	11.26 in	1.57 in	1.63 x 1.69	48TM86
Stainless Steel Body							
56 lb	180°	M4	1.15 in	3.61 in	0.46 in	0.63 x 0.63	48TM89
123 lb	180°	M5	1.71 in	4.95 in	0.68 in	0.66 x 0.71	48TM90
161 lb	180°	M6	2.51 in	7.35 in	1 in	1.02 x 1.10	48TM91
186 lb	180°	M8	2.91 in	8.78 in	1.27 in	1.02 x 1.22	48TM93
Stainless Steel Body w/Safety Interlock							
161 lb	180°	M6	2.51 in	7.61 in	1 in	1.02 x 1.10	48TM92
186 lb	180°	M8	2.91 in	9.07 in	1.27 in	1.02 x 1.22	48TM94

Vertical
3CXV5

Vertical,
U-Shaped Arm
3CXW4

Horizontal
3CXA3

Compact Horizontal
3CWX5

DESTACO

Vertical, Horizontal and Compact Toggle Clamps

Feature corrosion-resistant stainless steel rivets and molded grips for safety. Can be used on a variety of fixtures for applications where hold-down action can replace fasteners. Models with Toggle Lock Plus release lever prevent accidental opening due to vibration.

Vertical Handle—Some models feature 2 to 3 times the holding force with fewer pinch points for safety and durability. Flat cushion neoprene spindle.

Horizontal Handle—Provide a low profile for applications where minimum vertical height is required.

Compact Horizontal Handle—Low-silhouette hold-down clamp features a handle that can be operated from either side or from behind.

Holding Cap. (lb.)	Clamp Arm Opening Angle	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.
Vertical Handle Hold Down							
Open Arm							
600	75°	M6	4.72 in	3.29 in	0.95 in	0.50 x 1.06	**3CXV4**
	75°	M6	4.72 in	4.27 in	0.95 in	0.50 x 1.06	**3CXX6** †
1000	76°	M8	7.17 in	4.82 in	1.25 in	0.75 x 1.25	**3CXV5**
	76°	M8	7.17 in	6.6 in	1.25 in	0.75 x 1.25	**3CXX7** †
1400	78°	M10	9.08 in	6.09 in	1.7 in	1.25 x 1.78	**3CXV6**
	78°	M10	9.08 in	7.51 in	1.7 in	1.25 x 1.78	**3CXX8** †
U-Shaped Arm							
100	100°	M5	3.08 in	2.04 in	0.63 in	0.63 x 0.94	**3CXV9**
125	100°	10-32	3.08 in	2.04 in	0.63 in	0.63 x 0.94	**3CXX2** *‡
200	105°	M6	4.31 in	2.07 in	0.93 in	0.50 x 1.06	**3CXV3**
	105°	M6	4.31 in	2.73 in	0.93 in	0.50 x 1.06	**3CXW2**
250	105°	¼ - 20	4.31 in	2.73 in	0.93 in	0.50 x 1.06	**3CXX3** *‡
375	99°	M8	6.93 in	3.72 in	1.25 in	0.75 x 1.25	**3CXW5**
	99°	M8	6.93 in	5.41 in	1.25 in	0.75 x 1.25	**3CXW6**
	99°	M8	6.93 in	4.58 in	1.25 in	0.75 x 1.25	**3CXX9** †
450	99°	M8	5.63 in	4.44 in	1.25 in	0.75 x 1.25	**3CXX4** *‡
500	99°	Solid	6.93 in	3.79 in	1.25 in	0.75 x 1.25	**3CXW4**
600	103°	M10	8.19 in	5.54 in	1.67 in	1.26 x 1.77	**3CXW8**
	103°	M10	8.19 in	6.7 in	1.67 in	1.25 x 1.78	**3CXY1** †
750	103°	Solid	8.19 in	5.51 in	1.67 in	1.25 x 1.77	**3CXW7**
	103°	⅜ - 16	8.19 in	5.51 in	1.67 in	1.25 x 1.77	**3CXX5** *‡
1000	120°	M12	8.86 in	6.84 in	1.98 in	1.26 x 1.77	**3CXW9**
1200	140°	M16	11.97 in	8.87 in	3.08 in	2.00 x 2.75	**3CXX1**
Horizontal Handle Hold Down							
U-Shaped Arm							
60	94°	M4	0.67 in	2.85 in	0.36 in	0.62 x 0.62	**3CXA3**
	90°	M4	0.67 in	2.71 in	0.3 in	0.62 X 0.62	**3CXA4**
75	90°	8-32	0.67 in	2.71 in	0.3 in	0.62 x 0.62	**3CXC3** *
100	90°	8-32	1.06 in	2.74 in	0.44 in	0.63 x 0.63	**3CXC4** *
150	90°	M5	1.39 in	4.05 in	0.74 in	0.53 x 0.75	**3CXA5**
	90°	10-32	1.39 in	4.05 in	0.74 in	0.53 x 0.75	**3CXC5** *
200	87°	M6	1.53 in	5.48 in	1.0 in	1.00 x 0.88	**3CXA6**
	91°	M6	1.95 in	6.58 in	0.92 in	1.03 x 1.12	**3CXA7**
250	87°	¼	1.53 in	5.48 in	1.0 in	1.00 x 0.88	**3CXC6** *
	91°	¼	1.95 in	6.58 in	0.92 in	1.03 x 1.12	**3CXC7** *
295	71°	M5	1.3 in	5.87 in	0.75 in	0.53 x 0.70	**3CXD1** †
	71°	M5	1.3 in	5.87 in	0.75 in	0.53 x 0.70	**3CXV7**
500	92°	M8	1.84 in	6.91 in	1.31 in	1.00 x 0.87	**3CXA8**
	91°	M8	2.4 in	7.48 in	1.25 in	1.02 x 1.24	**3CXA9**
	92°	M8	1.89 in	7.09 in	1.29 in	1.00 x 0.88	**3CXD5** †
560	73°	M6	1.95 in	8.65 in	0.98 in	1.03 x 1.21	**3CXD2** †
	73°	M6	1.95 in	8.65 in	0.98 in	1.03 x 1.21	**3CXV8**
600	92°	5/16	1.84 in	6.91 in	1.31 in	1.00 x 0.88	**3CXC8** *
	91°	5/16	2.4 in	7.48 in	1.25 in	1.02 x 1.24	**3CXC9** *
750	92°	M10	2.56 in	10.7 in	1.75 in	1.63 x 1.63	**3CXC1**
	93°	M10	3.18 in	11.02 in	1.67 in	1.61 x 1.69	**3CXC2**
	92°	M10	2.56 in	10.5 in	1.7 in	1.63 x 1.63	**3CXD6** †
840	68°	M8	2.25 in	9.88 in	1.32 in	1.03 x 1.21	**3CXD3** †
	68°	M8	2.25 in	9.88 in	1.32 in	1.03 x 1.21	**3CXW1**
Compact Horizontal Handle Hold Down							
U-Shaped Arm							
150	90°	M5	1.43 in	2.21 in	0.48 in	0.53 x 0.63	**3CWX4**
	90°	M5	1.43 in	2.21 in	0.48 in	0.53 x 0.63	**3CWY1** †
200	90°	M5	1.43 in	2.21 in	0.48 in	0.53 x 0.63	**3CWX7** *
350	92°	M8	2.36 in	3.61 in	0.89 in	0.91 x 1.14	**3CWX5**
	92°	M8	2.36 in	3.61 in	0.89 in	0.91 x 1.14	**3CWY2** †
	92°	M8	2.36 in	3.61 in	0.89 in	0.91 x 1.14	**3CWX8** *
750	90°	⅜-16	3.53 in	5.19 in	1.31 in	1.38 x 1.50	**3CWX6**
	90°	⅜-16	3.53 in	5.19 in	1.31 in	1.38 x 1.50	**3CWY3** †
	90°	⅜-16	3.53 in	5.19 in	1.31 in	1.38 x 1.50	**3CWX9** *

** Stainless Steel. † Wtih Toggle Lock Plus release lever. ‡Does not have neoprene spindle.*

Base Mounted
3CXU3

Through-Hole
Mounted
3CXT6

DESTACO

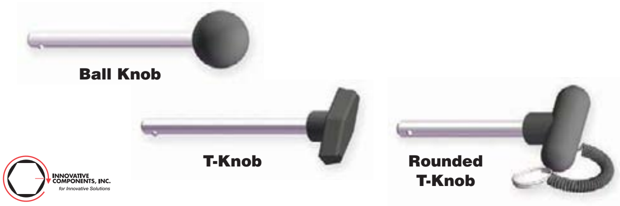
Straight Line-Action Clamps

▪ All clamps are made of steel (except where indicated)

Replace fasteners for secure holding of parts on fixtures. Threaded plunger. All models lock in both extended and retracted positions to provide holding force in "pull" or "push" directions. Models with release lever prevent accidental opening due to vibration.

Holding Cap. (lb.)	Plunger Dia. (in.)	Plunger Travel (in.)	Thread Size	Overall H (in.)	Overall L (in.)	Height Under Arm (in.)	Base Mounting Centers (in.)	Item No.
Base Mounted								
100	0.25	0.63	#8-32	1.27	2.61	0.50	0.63 x 0.63	**3CXR8** ‡
300	0.44	1.25	5/16 in	3.17	5.46	0.97	1.38 x 1.63	**3CXR5**
560	0.39	0.70	M6	1.59	2.96	0.50	0.87 x 1.75	**3CXR7** **
600	0.44	1.25	5/16 in	3.43	4.77	0.97	1.44 x 1.31	**3CXU4** †
840	0.47	1.25	5/16 in	3.43	4.77	0.97	1.44 x 1.31	**3CXU3** *
2500	0.62	2.00	⅜ in	3.05	7.06	0.81	1.63 x 3.00	**3CXU5** †
16000	0.99	3.00	⅝ in	4.84	11.16	2.25	2.75 x 2.25	**3CXR6**
—	0.51	—	5/16 in	—	6.02	—	—	**3CXR4**
	0.62	—	⅜ in	4.04	—	—	—	**3CXT2**
	0.87	—	½ in	—	—	—	—	**3CXT5**
	—	—	5/16 in	—	4.77	—	—	**3CXR9**
	—	—	5/16 in	—	—	—	—	**3CXT1**
	—	—	⅜ in	—	—	—	—	**3CXT3**
	—	—	⅜ in	—	—	—	—	**3CXT4**
Through-Hole Mounted								
200	0.39	0.75	¼ in	3.13	2.62	—	—	**3CXT9** *
400	0.44	1.50	5/16 in	4.16	4.95	—	—	**3CXU1** *
700	0.62	2.63	⅜ in	5.60	6.68	—	—	**3CXT8**
	0.62	2.63	⅜ in	5.60	6.68	—	—	**3CXU2** *
—	—	—	¼ in	3.13	2.62	—	—	**3CXT6**
	—	—	5/16 in	4.16	4.95	—	—	**3CXT7**

** Stainless steel. † With release lever. ‡ Thumb handle. ** T-Handle.*



Knob Detent Pins

Designed for quick-release applications where durability and added grip are needed. Spring-loaded detent ball retracts when pin is pushed or pulled. Black polypropylene. Rounded T-knob pins have retractable coiled lanyards, to keep pin securely tethered to equipment.

Pin Dia.	Grip Length	Item No.
Ball Knob		
¼ in	2 in	**3JDC5**
	3 in	**3JDD1**
	4 in	**3JDD4**
⅜ in	2 ⅛ in	**3JDD8**
	3 ⅛ in	**3JDE2**
½ in	3 ¼ in	**3JDF5**

Pin Dia.	Grip Length	Item No.
T-Knob		
¼ in	1 ½ in	**3JDC3**
	1 ¾ in	**3JDC4**
	2 ½ in	**3JDC7**
	2 ¾ in	**3JDC8**
	3 in	**3JDC9**
	3 ¾ in	**3JDD3**
⅜ in	1 ½ in	**3JDD6**
	2 ½ in	**3JDE1**
½ in	2 ½ in	**3JDF4**
Rounded T-Knob		
¼ in	2 in	**3JDC6**
	3 in	**3JDD2**
	4 in	**3JDD5**
⅜ in	1 ⅝ in	**3JDD7**
	2 ⅛ in	**3JDD9**
	3 ⅛ in	**3JDF3**
½ in	3 ¼ in	**3JDF6**

Knob Plunger Pins

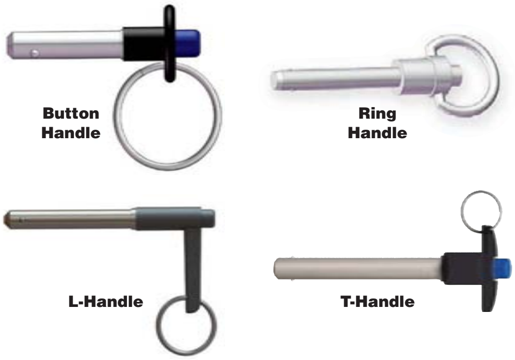
Retractable device is easily withdrawn and reengaged. Metal knob plungers are lockout and vibration resistant.

Thread Size	Tip Dia.	Tip Length	Item No.
Plastic Knob			
¼"-20	0.16"	0.190"	**3JCZ9**
⅜"-16	0.25"	0.280"	**3JDA1**
½"-13	0.31"	0.380"	**3JDA2**
⅝"-11	0.38"	0.440"	**3JCZ8**
Steel Knob			
¼"-20	0.12"	0.125"	**3JDA6**
⅜"-16	0.18"	0.220"	**3JDA8**
½"-13	0.24"	0.250"	**3JDA9**
5⁄16"-18	0.15"	0.188"	**3JDC2**
Stainless Steel Knob			
¼"-20	0.12"	0.125"	**3JDA7**
½"-13	0.24"	0.250"	**3JDC1**

Pop Pins with Weld-on Barrel

Quick, convenient way to adjust height or length on many applications. Case-hardened zinc-plated steel for strength and durability. Nonleaded, nonplated steel barrels for welding are included. Lockout style holds pin in retracted position until adjustments are finalized.

Tip Dia.	Tip Length	Barrel Height	Style	Item No.
Ball Knob				
5⁄16"	0.600"	1.50"	Straight Tip	**3CRP2**
⅜"	0.600"	1.50"	Straight Tip	**3CRN8**
	0.600"	1.50"	Lockout	**3CRP5**
½"	0.560"	1.50"	Short Tip	**3CRN5**
	0.560"	2.25"	Short Tip	**5REK6**
	0.610"	1.50"	Tapered Tip	**3CRN2**
	0.900"	1½"	Straight Tip	**3JDF7**
Rounded T-Knob				
5⁄16"	0.600"	1.50"	Straight Tip	**3CRP3**
⅜"	0.600"	1.50"	Straight Tip	**3CRN9**
	0.600"	1.50"	Lockout	**3CRP6**
½"	0.560"	1.50"	Short Tip	**3CRN6**
	0.560"	2.25"	Short Tip	**5REK7**
	0.610"	1.50"	Tapered Tip	**3CRN3**
	0.860"	1.50"	Straight Tip	**3JDF8**
Pull Knob				
5⁄16"	0.600"	1.50"	Straight Tip	**3CRP4**
⅜"	0.600"	1.50"	Straight Tip	**3CRP1**
	0.600"	1.50"	Lockout	**3CRP7**
½"	0.560"	1.50"	Short Tip	**3CRN7**
	0.560"	2.25"	Short Tip	**5REK8**
	0.610"	1.50"	Tapered Tip	**3CRN4**
	0.900"	1½"	Straight Tip	**3CRN1**



Positive Locking Pins

Provide a secure way to adjust or remove accessories on equipment. Push button initiates and controls ball action and retraction. Use Lanyards (sold separately) to securely affix pin to fixture or frame.

Pin Dia.	Grip Length	BUTTON HANDLE, 17-4 Stainless Steel Item No.	RING HANDLE, 17-4 Stainless Steel Item No.	L-HANDLE, 17-4 Stainless Steel Item No.
3⁄16 in	½ in	**5REK9**	**5RET7**	**13Y924**
	1 in	**5REL0**	**5RET8**	**13Y925**
	1 ½ in	**5REL1**	**5RET9**	**13Y926**
	2 in	**5REL2**	**5REU0**	**13Y927**
¼ in	½ in	**5REL3**	**5REU1**	**13Y928**
	1 in	**5REL4**	**3JCW1**	**13Y929**
	1 ½ in	**5REL5**	**3JCW2**	**13Y930**
	2 in	**5REL6**	**3JCW3**	**13Y931**
5⁄16 in	1 in	**5REL7**	**5REU2**	**13Y932**
	1 ½ in	**5REL8**	**5REU3**	**13Y933**
	2 in	**5REL9**	**5REU4**	**13Y934**
	2 ½ in	**5REN0**	**5REU5**	**13Y935**
⅜ in	1 in	**5REN1**	**5REU6**	**13Y936**
	1 ½ in	**5REN2**	**3JCW4**	**13Y937**
	2 in	**5REN3**	**3JCW5**	**13Y938**
	2 ½ in	**5REN4**	**5REU7**	**13Y939**
	3 in	**5REN5**	**3JCW6**	**13Y940**
	3 ½ in	**5REN6**	**5REU8**	**13Y941**
½ in	1 ½ in	**5REN7**	**3JCW7**	**13Y942**
	2 in	**5REN8**	**3JCW8**	**13Y943**
	2 ½ in	**5REN9**	**3JCW9**	**13Y944**
	3 in	**5REP0**	**3JCX1**	**13Y945**
	3 ½ in	**5REP1**	**3JCX2**	**13Y946**
	4 in	**5REP2**	**3JCX3**	**13Y947**

Pin Dia.	Grip Length	T-HANDLE, 17-4 Stainless Steel Item No.	T-HANDLE, 4140 Steel, Zinc Plated Item No.
3⁄16 in	½ in	**5REP3**	**5REU9**
	1 in	**5REP4**	**5REV0**
	1 ½ in	**5REP5**	**5REV1**
	2 in	**5REP6**	**5REV2**
¼ in	½ in	**5REP7**	**5REV3**
	1 in	**5REP8**	**3JCX4**
	1 ½ in	**5REP9**	**3JCX5**
	2 in	**5RER0**	**3JCX6**
5⁄16 in	1 in	**5RER1**	**5REV4**
	1 ½ in	**5RER2**	**5REV5**
	2 in	**5RER3**	**5REV6**
	2 ½ in	**5RER4**	**5REV7**
⅜ in	1 in	**5RER5**	**5REV8**
	1 ½ in	**5RER6**	**3JCX7**
	2 in	**5RER7**	**3JCX8**
	2 ½ in	**5RER8**	**5REV9**
	3 in	**5RER9**	**3JCX9**
	3 ½ in	**5RET0**	**5REW0**
½ in	1 ½ in	**5RET1**	**3JCY1**
	2 in	**5RET2**	**3JCY2**
	2 ½ in	**5RET3**	**3JCY3**
	3 in	**5RET4**	**3JCY4**
	3 ½ in	**5RET5**	**3JCY5**
	4 in	**5RET6**	**3JCY6**

Mounting	6 in Item No.	12 in Item No.
Lanyards		
Loops At Both Ends	**13Y920**	**13Y921**
Loop One End/SS Tab Other End	**13Y918**	**13Y919**
Loop One End/SS Eye Other End	**13Y922**	**13Y923**

Pull Ring Plunger Pins

Threaded plunger pins are retractable devices that can be easily withdrawn and re-engaged. Spring loaded steel pins with pull ring.

Thread Size	Tip Dia.	Tip Length	Item No.	
Short Pull Ring				
⅝"-11	0.38"	0.440"	**3JCY7**	
¼"-20	0.16"	0.190"	**3JCY8**	
⅜"-16	0.25"	0.280"	**3JCY9**	
½"-13	0.31"	0.380"	**3JCZ1**	
Pull Ring				
¼"-20	0.15"	0.250"	**3JCZ2**	
	0.15"	0.250"	**3JCZ3**	*
⅜"-16	0.23"	0.370"	**3JCZ4**	
	0.23"	0.370"	**3JCZ5**	*
½"-13	0.31"	0.500"	**3JCZ6**	
	0.31"	0.500"	**3JCZ7**	*

** Include vibration-resistant locking patch.*

3DAE1

6JRG6

Kipp®

Cam Levers

Single-Action Cam Levers—For clamping that requires quick adjustment, and where space is limited. For external thread levers, handle rotation is required for fixed stud insertion/removal for mating application. Available in lightweight cast aluminum with powder-coat finish or stainless steel with polished finish.
- Black matte finish
- External threads are fixed into the handle

Adjustable Cam Levers—Used when the position of the tensioning lever relative to the axis of tension only permits one specific position. Cam levers allow this position to be adjusted using a screwdriver. Screwdriver slot in stud allows for fine insertion/removal from mating application; handle rotation not required. Available with black powder-coated cast-aluminum handles or stainless steel handles.
- Adjustable with slotted head

Thread Size	Screw Length (in.)	Overall Length	Item No.
External Threads			
Cast Aluminum			
¼"-20	0.78	2 49/64 in	3DAD5
M10	0.99	3 25/32 in	3DAE1

Thread Size	Overall Length	Item No.
Internal Threads		
Cast Aluminum		
#10-32	2 49/64 in	3DAD2
M8	3 25/32 in	3DAD7
Single Action, Internal Threads		
Stainless Steel		
#10-32	2 49/64 in	6JRP4
M8	3 25/32 in	6JRP6

Thread Size	Screw Length	Overall Length	CAST ALUMINUM W/STEEL COMPONENTS Item No.	CAST ALUMINUM W/STAINLESS STEEL COMPONENTS Item No.	STAINLESS STEEL W/STAINLESS STEEL COMPONENTS Item No.
Adjustable, External Threads					
#10-32	20.00mm	2 49/64 in	6JRD4	6JRF0	6JRG6
M10	50.00mm	3 25/32 in	6JRJ1	6JRK7	6JRN3

Get More Online

For **Cam Levers** in additional sizes, finishes, and materials, go to **Grainger.com®.**

Internal Threads

External Threads

Kipp®

Ball-Style Adjustable Handles

- Black satin finish

Zinc handle, with inserts and internal components in steel or stainless steel. Adjustable from 20 to 45 positions, depending on handle size. Can be adjusted by pulling up on handle to disengage the gear while stud or insert remains stationary.

Note: Additional handles can be found on Grainger.com®; search for "kipp ball-style adjustable handles."

Thread Size	Overall Length	Thread Length	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
Internal Threads				
#10-32	1.8500 in	1.28"	3GFP5	3GFT9
M12	4.9600 in	3.11"	3GFT2	3GFV5

Thread Size	Overall Length	Screw Length	H	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
External Threads					
#10-32	1.8500 in	15.00mm	1.87"	3GFX1	3GGW3
⅜"-16	2.9300 in	20.00mm	2.58"	3GGF1	3GHH1
M8	3 37/64 in	40.00mm	3.84"	3GGG6	3GHK1

3GHJ9

Kipp®

Modern-Design Adjustable Handles

- Zinc die-cast construction
- External threads

For position adjustment or multiple hold-down applications. Can be adjusted by pulling up on handle to disengage the gear while stud or insert remains stationary.

Note: Additional handles can be found on Grainger.com®; search for "kipp modern-design adjustable handles."

Thread Size	Screw Length	Overall Length	H	STEEL COMPONENTS Item No.	STAINLESS STEEL COMPONENTS Item No.
#10-32	15.00mm	1.8500 in	1.81"	3GHJ9	3DDR2
¼"-20	50.00mm	2.9300 in	3.64"	3DCW7	3DDW1
5/16"-18	60.00mm	2.9300 in	4.04"	3DCX9	3DDW9
⅜"-16	60.00mm	3 37/64 in	4.51"	3DDE5	3DEA3
M6	15.00mm	1.8500 in	1.81"	3GHG9	3DDP5
M8	40.00mm	2.9300 in	3.25"	3DCU3	3DDU5
M10	50.00mm	3 37/64 in	4.11"	3DDC1	3DDY8

Knobs and Levers

T-KNOBS
For moderate- to heavy-torque applications. Black polypropylene knobs have steel zinc insert and satin finish. Heat-resistant phenolic knobs have brass insert or steel, zinc-plated screw.

3-PRONG
Designed for clamping and quick adjustment. Rounded edges make knobs easy to grasp and turn. Knobs up to 1¾" dia. are 3P style; 2" dia. and up are RT style.

4-PRONG AND 4-LOBE
For high-torque or heavy-duty clamping applications. Soft touch 4-lobe knobs have over-molded rubber layer for comfortable, nonslip grip.

SNAP-LOCK
Molded with a hex hole to accept standard locknuts, hex nuts, hex bolts, and hex cap screws. Fasteners can be easily pushed into position and snapped into the hex hole for a secure fit.

FLUTED
Large flutes and wide hub design for heavy torque applications, clamping, and quick adjustment. Easy to grasp and turn. Knobs up to 1¾" dia. are F2/F4 style; 2" dia. and up are F6 style. Soft touch knobs have over-molded rubber layer for a sure, comfortable grip.

STAR
For high torque applications, with rounded edges for comfortable grip. Impact- and scratch-resistant black polypropylene knobs have steel zinc insert. Knobs with locking thru taps have molded lock nut for vibration resistance. Soft touch knobs have over-molded rubber layer for nonslip grip.

BALL
Multipurpose black knobs with satin finish hide scratches and dirt. Soft touch knobs have over-molded rubber layer for comfortable, nonslip grip.

UNIVERSAL
Self-tapping/threading black polypropylene knobs are vibration resistant. Fit multiple thread sizes. No metal insert.

PULL
Designed for pushing, pulling, and lifting. Black color, impact and scratch resistant.

LONG TAPERED
Designed for heavy-duty applications. Impact and scratch-resistant black polypropylene knobs have steel zinc insert.

KNURLED
Deep, coarse knurls and rounded edges provide sure grip. Impact and scratch resistant, and designed for quick adjustment. For applications where clearance is an issue. ABS thermoplastic knobs are heat resistant to 250°F; nylon to 275°F.

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Rounded T-Knobs, Blind Tap					
Polypropylene					
2.25"	¼"-20	—	1.375"	Innovative Components	3GEM4
	5/16"-18	¾ in	1.375"		3GEM5
	5/16"-18	—	1.375"		3GEM6
	⅜"-16	1 in	1.375"		3GEM7
	⅜"-16	—	1.375"		3GEM8
T-Knobs, Blind Tap					
Polypropylene					
1.125"	#10-24	—	0.75"	Innovative Components	3GEH7
	¼"-20	—	1.00"		3GEJ2
2.00"	¼"-20	—	1.00"		3GEJ9
	5/16"-18	—	1.00"		3GEK6
	⅜"-16	—	1.00"		3GEL2
2.50"	5/16"-18	—	1.125"		3GEL7
	⅜"-16	—	1.125"		3GEM2
Hands, Blind Tap					
3.50"	½"-13	—	1.125"	Innovative Components	3GEM3
Phenolic					
2.00"	¼"-20	⅜ in	1.15"	Davies	6AXE6
	5/16"-18	½ in	1.13"		6AXE7
	⅜"-16	½ in	1.15"		6AXE8
2.50"	¼"-20	⅜ in	1.16"		6AXF3
	5/16"-18	½ in	1.15"		6AXF4
	⅜"-16	½ in	1.16"		6AXF5
Hands, Thru Tap					
Polypropylene					
1.25"	#10	—		Innovative Components	5REG9
	¼ in	—			5REH0
	M6	—			5REH1
2.00"	¼ in	—	1.00"		3GEL4
Hand, Thru Tap					
Polypropylene					
1.75"	#10	—		Innovative Components	5REG8
Snap Lock 3-Prong, Thru Tap					
1.75"	¼ in	—	1.00"	Innovative Components	3GDL3
	M6	—	1.00"		3GDL4
2.00"	¼ in	—	1.125"		3GDN4
	5/16 in	—	1.125"		3GDN5
	M6	—	1.125"		3GDN6
	M8	—	1.125"		3GDN7
3-Prong with Screw					
Polypropylene					
1.75"	¼"-20	¾ in	1.00"	Innovative Components	3GDJ9
	5/16"-18	½ in	1.00"		3GDK4
	5/16"-18	1½ in			3GDK5
1.75"	⅜"-16	1½ in	1.00"		3GDK9
2.00"	¼"-20	1 in	1.125"		3GDL5
	5/16"-18	1 in	1.125"		3GDL8
Hand with Screw					
Phenolic					
0.875"	#8-32	½ in	1.25"	Davies	6AXG1
	#10-32	½ in	1.25"		6AXG3
	¼"-20	½ in	1.26"		6AXG2
1.125"	#10-32	7/16 in	1.21"		6AXG8
	¼"-20	½ in	1.27"		6AXG5
	¼"-20	¾ in	1.52"		6AXH0
	¼"-20	1 in	1.77"		6AXH1
	¼"-20	1½ in	2.27"		6AXG6
1.50"	¼"-20	9/16 in	1.44"		6AXH4
	¼"-20	¾ in	1.63"		6CXP8
	¼"-20	1 in	1.88"		6CXR0
	5/16"-18	½ in	1.38"		6CXR3
	5/16"-18	¾ in	1.63"		6CXR1
	5/16"-18	1 in	1.88"		6CXR2
2.00"	¼"-20	1 in	2.00"		6CXR5
	5/16"-18	¾ in	1.76"		6CXR8
	5/16"-18	1 in	2.39"		6CXR7
	⅜"-16	½ in	1.50"		6CXR9
	⅜"-16	1 in	2.00"		6CXR6
3-Prong, Blind Tap					
Polypropylene					
1.25"	¼"-20	—	1.00"	Innovative Components	3GDJ6
	5/16"-18	—	1.00"		3GDJ8
1.75"	¼"-20	—	1.00"		3GDK2
	5/16"-18	—	1.00"		3GDK7
	⅜"-16	—	1.00"		3GDL2
2.00"	¼"-20	—	1.125"		3GDL7
	5/16"-18	—	1.125"		3GDN1
	⅜"-16	—	1.125"		3GDN3
2.50"	5/16"-18	—	1.125"		3GDN9
Hand, Blind Tap					
Phenolic					
0.875"	#8-32	⅜ in	0.75"	Davies	6AXF8
	#10-32	⅜ in	0.75"		6AXF9
	¼"-20	⅜ in	0.75"		6AXG0
1.125"	#10-24	⅜ in	0.76"		6AXG7
	#10-32	⅜ in	0.76"		6AXG9
	¼"-20	⅜ in	0.77"		6AXG4
1.50"	¼"-20	⅜ in	0.88"		6CXP9
	5/16"-18	½ in	0.88"		6CXP7
2.00"	5/16"-18	½ in	1.02"		6CXT0
	⅜"-16	½ in	1.02"		6CXR4

Dia.	Thread Size	Screw Length	L	Brand	Item No.
3-Prong, Thru Tap					
Polypropylene					
1.25"	¼"-20	—	1.00"	Innovative Components	3GDJ5
	5/16"-18	—	1.00"		3GDJ7
1.75"	¼"-20	—	1.00"		3GDK1
	¼"-20	—	1.00"		3GDK3 *
	5/16"-18	—	1.00"		3GDK6
	5/16"-18	—	1.00"		3GDK8 *
	⅜"-16	—	1.00"		3GDL1
2.00"	¼"-20	—	1.125"		3GDL6
	5/16"-18	—	1.125"		3GDL9
	⅜"-16	—	1.125"		3GDN2
2.50"	5/16"-18	—	1.125"		3GDN8
	⅜"-16	—	1.125"		3GDP1
Hand, Thru Tap					
Phenolic					
1.125"	#10-32	—	0.77"	Davies	6AXH2
	¼"-20	—	0.77"		6AXH3
4-Prong, Blind Tap					
Polypropylene					
1.75"	¼"-20	—	1.00"	Innovative Components	3GDP5
	5/16"-18	—	1.00"		3GDP9
2.50"	¼"-20	—	1.125"		3GDR4
	5/16"-18	—	1.125"		3GDR8
	⅜"-16	—	1.125"		3GDT4
Soft Touch 4-Lobe, Blind Tap					
Polypropylene, TPE Overmold					
1.375"	¼"-20	—	0.625"	Innovative Components	3GDT8
1.75"	5/16"-18	—	0.875"		3GDU1
2.00"	⅜"-16	—	1.00"		3GDU3
Star, Blind Tap					
Polypropylene					
1.375"	¼"-20	—	1.125"	Innovative Components	3GEN2
	5/16"-18	—	1.125"		3GEN4
1.75"	¼"-20	—	1.25"		3GEP5
	5/16"-18	—	1.25"		3GEP9
2.25"	¼"-20	—	1.00"		3GEU2
	5/16"-18	—	1.00"		3GEU4
	⅜"-16	—	1.00"		3GEU6
Hands, Thru Tap					
1.375"	#10	—		Innovative Components	5REG7
	¼ in	—	1.125"		3GEN6
	5/16 in	—	1.125"		3GEN7
	M6	—	1.125"		3GEN8
	M8	—	1.125"		3GEN9
1.75"	¼ in	—	1.25"		3GER2
	5/16 in	—	1.25"		3GER3
	⅜ in	—	1.25"		3GER4
	M6	—	1.25"		3GER5
	M8	—	1.25"		3GER6
	M10	—	1.25"		3GER7
2.25"	¼ in	—	1.00"		3GEU7
	5/16 in	—	1.00"		3GEU8
	⅜ in	—	1.00"		3GEU9
	M6	—	1.00"		3GEV1
	M8	—	1.00"		3GEV2
	M10	—	1.00"		3GEV3
Soft Touch Fluted, Blind Tap					
Polypropylene, TPE Overmold					
2.50"	5/16"-18	—	1.25"	Innovative Components	3GDZ6
	⅜"-16	—	1.25"		3GDZ9
	½"-13	—	1.25"		3GEA3
Soft Touch Fluted, Thru Tap					
Polypropylene, TPE Overmold					
2.50"	5/16"-18	—	1.25"	Innovative Components	3GDZ5
	⅜"-16	—	1.25"		3GDZ8
	½"-13	—	1.25"		3GEA2
Soft Touch Fluted with Screw					
Polypropylene, TPE Overmold					
	5/16"-18	1¾ in		Innovative Components	3GDZ4
	⅜"-16	2 in			3GDZ7
	½"-13	1½ in			3GEA1
Control Lever					
Phenolic					
1.875"	¼"-20	⅜ in	1.29"	Davies	6CYH6
	⅜"-16	⅝ in	1.29"		6CYH5
Rounded Lever					
Phenolic					
2.00"	⅜"-24	⅝ in	1.58"	Davies	6CYG4
	⅜"-16	½ in	1.58"		6CYG5
	¼"-20	⅜ in	1.58"		6CYG6
Large Concave Pull					
Phenolic					
1.50"	#8-32	⅜ in	0.81"	Davies	6CYP6
	#10-32	⅜ in	0.81"		6CYP7

** Locking. † Short Hub.*

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CONTINUED

INNOVATIVE COMPONENTS, INC. — DAVIES

Knobs and Levers

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Hand					
Black Polypropylene					
1.00"	#10-24	—	1.00"	Innovative Components	3GEF2
	1/4"-20	—	1.00"	Innovative Components	3GEF3
1.625"	1/4"-20	—	1.25"	Innovative Components	3GEF4
	5/16"-18	—	1.25"	Innovative Components	3GEF5
	3/8"-16	—	1.25"	Innovative Components	3GEF6
Phenolic					
0.66"	#6-32	¼ in	0.78"	Davies	6CYN2
	#8-32	¼ in	0.61"	Davies	6CYN3
	#10-32	0.3100 in	0.61"	Davies	6CYN4
0.81"	#8-32	⅜ in	0.78"	Davies	6CYN5
	#10-32	⅜ in	0.78"	Davies	6CYN6
0.91"	#8-32	⅜ in	0.91"	Davies	6CYN7
	#10-32	⅜ in	0.91"	Davies	6CYN8
	¼"-20	⅜ in	0.91"	Davies	6CYN9
1.05"	#6-32	0.2600 in	1.03"	Davies	6CYP1
	#8-32	⅜ in	1.03"	Davies	6CYP0
	#10-32	⅜ in	1.03"	Davies	6CYP2
Hand, Blind Tap					
ABS Plastic					
0.75"	#8-32	—	0.625"	Innovative Components	3GEC3
1.00"	#10-32	—	0.625"	Innovative Components	3GED3
	¼"-20	—	0.625"	Innovative Components	3GEE1
Polypropylene					
0.75"	#10-32	—	0.50"	Innovative Components	3GEA4
	#10-24	—	0.50"	Innovative Components	3GEA5
1.00"	#8-32	—	0.625"	Innovative Components	3GEE6
Nylon					
0.75"	#10-32	—	0.50"	Innovative Components	3GEC5
	#10-24	—	0.50"	Innovative Components	3GEC8
1.00"	#10-24	—	0.50"	Innovative Components	3GED5
	¼"-20	—	0.625"	Innovative Components	3GEE2 †
Phenolic					
1.00"	¼"-20	⅜ in	0.75"	Davies	6CXX4
1.25"	¼"-20	⅜ in	0.77"	Davies	6CXW9
	⅜"-16	½ in	0.75"	Davies	6CXX0
	5/16"-18	½ in	0.78"	Davies	6CXX1
Ball with Raised Dia.					
1.625"	⅜"-16	½ in	1.33"	Davies	6CYG3
Hand, with Screw					
Polypropylene					
1.00"	¼"-20	2.125 in	0.50"	Innovative Components	3GED9
Soft Touch Universal Ball					
Black Polypropylene, TPE Overmold					
1.625"	Fits 5/16 in, ⅜ in, M8, M10	—	1.50"	Innovative Components	3GDG3 †
1.875"	Fits ⅜ in, ½ in, M10	—	1.75"	Innovative Components	3GDH4 †

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Hand					
Phenolic					
0.78"	#10-32	⅜ in	0.73"	Davies	6CYE5
	¼"-20	⅜ in	0.73"	Davies	6CYE6
1.00"	¼"-20	⅜ in	0.91"	Davies	6CYE7
	5/16"-18	½ in	0.91"	Davies	6CYE8
1.25"	5/16"-18	½ in	1.18"	Davies	6CYE9
	⅜"-16	½ in	1.18"	Davies	6CYF0
	⅜"-24	½ in	1.18"	Davies	6CYF1
1.41"	½"-13	⅞ in	1.37"	Davies	6CYF2
	5/16"-18	½ in	1.33"	Davies	6CYF3
2.00"	⅜"-24	⅞ in	1.85"	Davies	6CYF4
	½"-13	¾ in	1.85"	Davies	6CYF5
	⅝"-18	¾ in	1.85"	Davies	6CYF6
Gear Shift					
1.50"	⅜"-16	½ in	1.32"	Davies	6CYF7
	⅜"-24	⅝ in	1.32"	Davies	6CYF8
Rounded Shift					
Phenolic					
1.375"	¼"-20	⅝ in	1.50"	Davies	6CYG1
	5/16"-18	⅝ in	1.50"	Davies	6CYF9
	⅜"-16	⅝ in	1.50"	Davies	6CYG0
	⅜"-16	½ in	1.50"	Davies	6CYG2
Hand					
Black Polypropylene					
1.375"	#10-32	—	2.00"	Innovative Components	3GEF7
	¼"-20	—	2.00"	Innovative Components	3GEF8
	5/16"-18	—	2.00"	Innovative Components	3GEG3
	⅜"-16	—	2.00"	Innovative Components	3GEG5
1.625"	⅜"-16	—	2.50"	Innovative Components	3GEG8 †
	½"-13	—	2.50"	Innovative Components	3GDD4
Phenolic					
1.125"	¼"-20	½ in	1.46"	Davies	6CYH0
	5/16"-18	½ in	1.47"	Davies	6CYH1
	⅜"-16	½ in	1.47"	Davies	6CYH2
	⅜"-24	⅝ in	1.47"	Davies	6CYH3
1.25"	¼"-20	⅜ in	1.78"	Davies	6CYG8
	5/16"-18	⅝ in	1.78"	Davies	6CYG9
	⅜"-16	⅞ in	1.77"	Davies	6CYG7
Long Fluted Tapered, with Screw					
Phenolic					
1.125"	¼"-20	⅜ in	3.89"	Davies	6CYT5
1.375"	⅜"-16	¾ in	4.95"	Davies	6CYT8

Dia.	Thread Size	Screw Length	L	Brand	Item No.
Hand with Indicator, Blind Tap					
Inj. Phenolic					
0.48"	¼ in	—	0.55"	Davies	6CYJ1
0.58"	¼ in	—	0.63"	Davies	6CYJ2
Phenolic					
0.75"	¼ in	—	0.78"	Davies	6CYJ3
1.06"	¼ in	—	0.70"	Davies	6CYJ4
Hand with Indicator Line, Blind Tap					
Phenolic					
0.66"	¼ in	—	0.47"	Davies	6CYH7
0.91"	¼ in	—	0.58"	Davies	6CYH8
1.16"	¼ in	—	0.66"	Davies	6CYH9
1.50"	¼ in	—	0.81"	Davies	6CYJ0
Hand with Set Screw and Indicator Line, Blind Tap					
Phenolic					
0.75"	¼ in	—	0.76"	Davies	6CYK5
1.125"	¼ in	—	0.57"	Davies	6CYK4
	¼ in	—	0.62"	Davies	6CYK8
1.50"	¼ in	—	0.76"	Davies	6CYK6
Instrument with Set Screw and Inlay, Blind Tap					
0.375"	¼ in	—	0.63"	Davies	6CYJ5
0.53"	¼ in	—	0.63"	Davies	6CYJ6
0.875"	¼ in	—	0.69"	Davies	6CYJ7
Instrument with Set Screw, Blind Tap					
Phenolic					
0.50"	¼ in	—	0.63"	Davies	6CYJ9
0.625"	¼ in	—	0.42"	Davies	6CYJ8

** Locking. † Short Hub.*

Precision Measuring Information

IP Rating

IP rating indicates the level of protection an instrument offers against water, coolants and fluids, dust, and the elements

IP54-rated tools withstand splashes of water and are safe from particles, debris, and dust.

IP65-rated tools withstand jets of water and provide protection against metalworking fluids, coolants, and dust.

IP66-rated tools are dust-tight and withstand water projected from powerful jets

IP67-rated tools are the best choice for wash-down enviornments or where tools are exposed to seawater, coolants, or cutting fluids.

Resolution—Refers to the smallest visible change in measurment.

Long Form Calibration Certificate—A long-form calibration certificate is issued with insturments that meet standards of accuracy and repeatability set by NIST (National Insitute of Standards and Technology).

SPC Output—An insturment with SPC Output is capable of transmitting measurments via a cabled or wireless connecton to a computer, mini-processor, or other compatible device.

CALIPER TIP TYPES

Carbide-Tipped and Ceramic—Carbide-tipped measuring faces are harder than standard steel. Carbide tips provide more reliable readings, but may chip easier than other materials. Ceramic-tipped jaw faces are wear-resistant, nonmagnetic, and nonconductive.

Carbon Fiber and Plastic—Carbon fiber is used in the construction of long-range calipers. It is lightweight and allows tools to be used across a broad range of measurments. Plastic is nonmagnetic, nonconductive, and typically used in lab applications.

Stainless Steel and Steel—Stainless steel is the most commonly used material in the construction of calipers. It is strong, durable, and rust- and corrosion- resistant. Hardened steel is harder and more wear-resistant than stainless steel.

Plastic Jaw 3YWH2

Stainless Steel 408P47

Dial Calipers

Easier to read than vernier calipers and are commonly used in light and heavy manufacturing, production and machine and woodworking shops.

Accuracy	Dial Graduation	Range per Revolution	Measurements	Dial Color	Jaw Actuation Type	Jaw Depth	Jaw Shape	Brand	Item No.
Plastic Jaw Material									
0 to 150 mm Range									
+/-0.03 mm	0.1 mm	10 mm	4-Way	White	Thumb Wheel	1.5 in	Standard Blade Nibs For Inside/Outside Measurement	General	**3YWH2**
0 in to 6 in Range									
+/-0.001 in	0.001 in	0.1 in	4-Way	Black	Thumb Wheel	1.1875 in	Standard Blade Nibs For Inside/Outside Measurement	General	**54GX50**
Stainless Steel Jaw Material									
0 in to 6 in Range									
+/-0.0008 in	0.001 in	0.1 in	4-Way	White	Slide	1.5625 in	Standard Blade Nibs For Inside/Outside Measurement	Tesa Brown & Sharpe	**49U606**
	0.001 in	0.1 in	4-Way	Black	Slide	1.5625 in		Tesa Brown & Sharpe	**49U608**
+/-0.001 in	0.001 in	0.1 in	4-Way	Purple	Thumb Wheel	40 mm		Mitutoyo	**4CGJ2**
	0.001 in	0.1 in	4-Way	Green	Thumb Wheel	40 mm		Mitutoyo	**4CGJ3**
	0.001 in	0.1 in	4-Way	Orange	Thumb Wheel	40 mm		Mitutoyo	**4CGJ5**
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	40 mm		Mitutoyo	**4LA83**
	0.001 in	0.1 in	4-Way	Blue	Thumb Wheel	40 mm		Mitutoyo	**1ZRR7**
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.5 in		Starrett	**2ZUE3**
	0.001 in	0.1 in	4-Way	Black	Thumb Wheel	1.5 in		Starrett	**2ZUF2**
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.625 in		Westward	**4KU74**
0 in to 8 in Range									
+/-0.001 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	1.96875 in	Standard Blade Nibs For Inside/Outside Measurement	Westward	**4KU75**
+/-0.002 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	50 mm		Mitutoyo	**5RCG4**
0 in to 12 in Range									
+/-0.001 in	0.001 in	0.1 in	Inside, Outside, Step	White	Thumb Wheel	2.5 in	Standard Blade Nibs For Inside/Outside Measurement	Starrett	**3DZR2**
	0.001 in	0.1 in	4-Way	White	Thumb Wheel	2.4375 in		Westward	**4KU73**
+/-0.002 in	0.001 in	0.2 in	4-Way	White	Thumb Wheel	64 mm		Mitutoyo	**1ZRR9**
0 in to 24 in Range									
+/-0.001 in	0.001 in	0.1 in	Inside, Outside	White	Thumb Wheel	3.375 in	Standard Blade Nibs For Inside/Outside Measurement	Westward	**6XU79**
0 in to 12 in Range, Long Form Calibration Certificate: Yes									
+/-0.002 in	0.001 in	0.1 in	4-Way	White	Thumb Wheel	64 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	**4LA85**
0 to 150 mm Range									
+/-0.03 mm	0.01 mm	0.2 mm	4-Way	White	Thumb Wheel	0.375 in	Standard Blade Nibs For Inside/Outside Measurement	Insize	**408P47**
	0.01 mm	1 mm	4-Way	White	Thumb Wheel	1.5625 in		Mahr	**5RHK3**
	0.02 mm	2 mm	4-Way	Yellow	Thumb Wheel	1.5 in		Starrett	**2ZUE9**
0 to 300 mm Range									
+/-0.04 mm	0.02 mm	2 mm	4-Way	Yellow	Thumb Wheel	64 mm	Standard Blade Nibs For Inside/Outside Measurement	Mitutoyo	**16X243**

Vernier Caliper 408P35

Compact Slide 5UAU5

Vernier & Compact Slide Calipers

Vernier calipers take inside and outside measurements. Operators read the main and vernier scales and add the values to determine the reading. **Compact slide calipers** do not have a higher-precision second scale. They are small enough to fit in shop coat pockets. These calipers are commonly graduated with fractions of an inch and often used by woodworkers and for maintenance applications.

Range	Graduations	Accuracy	Jaw Depth	Brand	Item No.
Vernier Calipers					
Knife-Edge Jaw, Slide Actuation					
0 in to 6 in, 0 mm to 150 mm	0.001 in	+/-0.001 in, +/-0.03 mm	1 ¾ in	Westward	**4KU77**
0 in to 12 in, 0 mm to 300 mm	0.001 in		2.18 in	Westward	**4KU76**
Nib-Style Jaw, Fine Adjust Carriage Actuation					
0 in to 24 in, 0 mm to 600 mm	0.001 in, 0.02 mm	+/-0.002 in	3 15⁄16 in	Insize	**408P39**
0 in to 60 in	1/512 in	+/- 0.004 in	7 in	Mitutoyo	**54GF65**
Standard Jaw, Slide Actuation					
0 in to 8 in, 0 mm to 203.2 mm	0.02 mm	+/-0.001 in (0-4 in), +/-0.0015 in (4+ in)	1 ½ in	Starrett	**2ZUF5**
0 in to 12 in, 0 mm to 300 mm	0.02 mm		1 ½ in	Starrett	**2ZUF3**
Standard Jaw, Thumb Wheel Actuation					
0 in to 5 in, 0 mm to 127 mm	0.1 mm	+/-0.001 in	2 9⁄16 in	General	**54GX52**
0 in to 6 in	0.05 mm	+/- 0.0015 in	1 37⁄64 in	Mitutoyo	**4CGN6**
0 in to 6 in, 0 mm to 150 mm	0.001 in, 0.02 mm	+/-0.0012 in	1 37⁄64 in	Insize	**408P35**
0 in to 8 in, 0 mm to 203.2 mm	0.05 mm	+/-0.03 mm	1 31⁄32 in	Mitutoyo	**4CGN7**
Standard Jaw, Thumb Clamp Actuation					
0 in to 6 in, 0 mm to 150 mm	0.02 mm	+/-0.03 mm	1 37⁄64 in	Mitutoyo	**4CGN8**
0 in to 8 in, 0 mm to 203.2 mm	0.02 mm		1 31⁄32 in	Mitutoyo	**4CGN9**
Compact Slide Calipers					
Nib-Style Jaw, Slide Actuation					
0 in to 4 in, 0 mm to 101.6 mm	1⁄16 in	+/-0.001 in, +/-0.03 mm	¾ in	General	**3YWP8**
0 in to 4 ¾ in	1⁄32 in, 1⁄64 in	+/-0.003 in	1 ⅜ in	Starrett	**5UAU5**

For more information on Precision Measuring Instruments, see page 2325.

INSIZE Starrett

Layout & Scribing Compasses & Dividers

- Spring joint

Also known as compasses, these layout and scribing dividers have two straight, adjustable legs with solid scriber endpoints.

Maximum Measurement	Brand	Stop Item No.	Nut Type Quick-Spring Item No.	Solid Item No.
Flat Leg				
5.91 in	Insize	409F27	—	—
6 in, 150 mm	Starrett	—	2ZUZ9	2ZUZ8
8 in, 200 mm	Starrett	—	2ZVA2	2ZVA1
10.24 in	Insize	409F29	—	—
12 in, 300 mm	Starrett	—	2ZVA4	2ZVA3
12.6 in	Insize	409F30	—	—
Round Leg				
6 in, 150 mm	Starrett	—	—	2ZVA7

Flat Leg
409F27

INSIZE Starrett WESTWARD

Outside Spring & Firm Joint Calipers

Spring
6NAY8

- Steel construction

Adjusted until their legs make contact with an external diameter, groove, or other feature and lock into place. Then the distance between the legs is measured with a ruler or high-precision gauge.

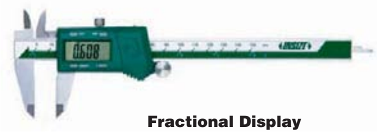
Maximum Measurement	Range	Nut Type	Leg Style	Brand	Item No.
Spring Joint					
5.51 in	0 in to 5.51 in	Stop	Flat	Insize	409F35
6 in, 150 mm	0 in to 6 in/0 mm to 150 mm	Solid	Round	Starrett	2ZVA6
8 in, 200 mm	0 in to 8 in/0 mm to 200 mm	Solid	Flat	Starrett	6NAY8
8.27 in	0 in to 8.27 in	Stop	Flat	Insize	409F36
12 in, 300 mm	0 in to 12 in/0 mm to 300 mm	Quick-Spring	Flat	Starrett	6NAZ9
12.6 in	0 in to 12.6 in	Stop	Flat	Insize	409F38
Firm Joint					
12 in, 300 mm	0.037 to 12 in/1 to 300 mm	Solid	Flat	Westward	40L725
457 mm, 18 in	0.037 in to 24 in, 1 mm to 608 mm	Solid	Flat	Westward	40L724

Fractional-Display Digital Calipers

GENERAL INSIZE JOHNSON WESTWARD BAILEIGH

- LCD Display
- For SPC processors and accessories, see page 2336

Fractional-display digital calipers have a linear encoder for performing measurements and an LCD that displays measurements in 1/64" increments with inch and metric resolution.



Fractional Display
408N32

Range	Res.	Accuracy	Measurements	Jaw Depth	Brand	Item No.
Fractional-Display Digital Calipers without SPC Output						
Carbon Fiber Caliper Material						
0 in to 3 in, 0 to 76 mm	0.0005 in/0.01 mm/1/64 in	±0.005 in, ±0.10 mm	Outside, Inside, Step	1 9/16 in	General	6TFF9
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/128 in	±-0.0012 in	4-Way	1 37/64 in	Insize	408N32
	0.0005 in/0.01 mm/1/64 in	±0.001 in	4-Way	1 9/16 in	Johnson	21XK35
0 in to 8 in, 0 to 200 mm	0.0005 in/0.01 mm/1/128 in	±-0.0012 in	4-Way	1 31/32 in	Insize	408N33
0 in to 12 in, 0 to 300 mm	0.0005 in/0.01 mm/1/128 in	±-0.0012 in	4-Way	2 21/64 in	Insize	408N34
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/64 in	±-0.03 mm, ±0.0015 in	4-Way	1 9/16 in	Westward	29AD36
Splash-Resistant IP54 Fractional-Display Digital Calipers with SPC Output						
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm	±0.001 in, ±0.02 mm	4-Way	1 ½ in	General	54GX54
	0.0005 in/0.01 mm/1/64 in	±0.001 in, ±0.02 mm	4-Way	1 39/64 in	Westward	2YNJ9
Splash-Resistant IP54 Fractional-Display Digital Calipers without SPC Output						
Plastic Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm	±-0.008 in, ±0.16 mm	4-Way	1 ½ in	Westward	2YNC6
Carbon Fiber Caliper Material						
0 in to 6 in, 0 to 153 mm	0.0005 in/0.01 mm/1/64 in	±-0.008 in, ±0.20 mm	4-Way	1 5/8 in	General	54GX49
Stainless Steel Caliper Material						
0 in to 6 in, 0 to 150 mm	0.0005 in/0.01 mm/1/128 in	±0.001 in	4-Way	1 39/64 in	Baileigh Industrial	36HZ56

Stainless Steel
408N45

Digital Calipers without SPC Output for General Use

INSIZE Mitutoyo WESTWARD Starrett

- 0.0005 in / 0.01 mm resolution
- Stainless Steel caliper material except where noted

Calipers are easier to read and offer higher precision than dial or vernier calipers.

Range	Accuracy	Measurements	Depth Rod Shape	Included Certification**	Jaw Depth	Jaw Shape	Jaw Actuation Type	Brand	Item No.
Plastic Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.004 in	4-Way	Rectangular	—	1 37/64 in	Standard	Slide	Insize	408N72 *
Carbide-Tipped Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.001 in	4-Way	Rectangular	A	2 33/64 in	Standard	Thumb Wheel	Mitutoyo	4CGK3
0 in to 12 in, 0 to 300 mm	±0.0015 in	4-Way	Rectangular	A	2 33/64 in	Standard	Thumb Wheel	Mitutoyo	5JK61
Stainless Steel Jaw Material									
0 in to 3 in, 0 to 75 mm	±0.0008 in	4-Way	Rectangular	—	1 11/64 in	Standard	Slide	Insize	408N45
0 in to 4 in, 0 to 100 mm	±0.001 in	4-Way	Round	A	1 37/64 in	Standard	Thumb Wheel	Mitutoyo	1ARG3
	±0.0008 in	4-Way	Rectangular	—	1 11/64 in	Standard	Slide	Insize	408N44
0 in to 6 in, 0 to 150 mm	±-0.0012 in	4-Way	Rectangular	B	1 37/64 in	Standard	Thumb Wheel	Insize	408N46
	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	1 ½ in	Standard	Thumb Wheel	Westward	1AAU4
0 in to 8 in, 0 to 200 mm	±0.005 in, ±0.20 mm	4-Way	Rectangular	A	1 37/64 in	Standard	Slide	Mitutoyo	4CGL9
	±-0.0012 in	4-Way	Rectangular	B	1 31/32 in	Standard	Thumb Wheel	Insize	408N47
0 in to 12 in, 0 to 300 mm	±-0.0012 in	4-Way	Rectangular	B	2 23/64 in	Standard	Thumb Wheel	Insize	408N48
	±0.0015 in	4-Way	Rectangular	A	2 33/64 in	Standard	Thumb Wheel	Mitutoyo	36J722
0 in to 18 in, 0 to 450 mm	±0.002 in	Outside, Inside, Step	—	—	3 15/16 in	Standard	Fine Adjust Carriage	Insize	408N70
0 in to 24 in, 0 to 600 mm	±0.002 in	Outside, Inside, Step	—	—	3 15/16 in	Standard	Fine Adjust Carriage	Insize	408N71
	±0.002 in, ±0.05 mm	Outside, Inside	—	—	4 in	Nib-Style	Thumb Wheel	Starrett	2ZUG3
0 in to 40 in, 0 to 1,000 mm	±0.0031 in	Outside, Inside, Step	—	—	5 7/8 in	Nib-Style	Fine Adjust Carriage	Insize	408N68
	±0.003 in, ±0.07 mm	Outside, Inside	—	—	6 in	Nib-Style	Thumb Wheel	Starrett	2ZUG4
Steel Jaw Material									
0 in to 6 in, 0 to 150 mm	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	1 9/16 in	Standard	Thumb Wheel	Westward	2ZA59
0 in to 12 in, 0 to 300 mm	±0.001 in, ±0.02 mm	4-Way	Rectangular	—	2 13/32 in	Standard	Thumb Wheel	Westward	2ZA61
Long Form Calibration Certificate: Yes, Stainless Steel Jaw Material									
0 in to 4 in, 0 to 100 mm	±0.001 in	4-Way	Round	C	1 37/64 in	Standard	Thumb Wheel	Mitutoyo	1ARG4
0 in to 6 in, 0 to 150 mm	±0.001 in	4-Way	Rectangular	C	2 33/64 in	Standard	Thumb Wheel	Mitutoyo	5JK63
0 in to 8 in, 0 to 200 mm	±0.001 in	4-Way	Rectangular	C	1 31/32 in	Standard	Thumb Wheel	Mitutoyo	1ZRR4
0 in to 12 in, 0 to 300 mm	±0.0015 in	4-Way	Rectangular	C	2 33/64 in	Standard	Thumb Wheel	Mitutoyo	41T263

**408N72 is Plastic Caliper Material **A=Certificate of Inspection, B= Certificate of Inspection with NIST Traceability, C=Long Form Calibration Certificate Traceable to NIST*

For more information on Precision Measuring Instruments, see page 2325.

Carbide-Tipped Jaw Material 408N41

Ceramic Jaw 408P32

Stainless Steel Jaw 29AD39

Digital Calipers with SPC Output for General Use

- 0.0005 in / 0.01 mm Resolution
- Stainless Steel caliper material except where noted
- For SPC processors and accessories see page 2336

Range	Accuracy	Measurements	Depth Rod Shape	Included Certification**	Jaw Depth	Jaw Shape	Brand	Item No.
Carbide-Tipped Jaw Material								
0 in to 6 in, 0 to 150 mm	±-0.0012 in	4-Way	Rectangular	B	1 37/64 in	Nib-Style	Insize	**408N41**
	±0.001 in	4-Way	Rectangular	A	2 33/64 in	Standard	Mitutoyo	**6NRA0**
0 in to 8 in, 0 to 200 mm	±-0.0012 in	4-Way	Rectangular	B	1 31/32 in	Standard	Insize	**408N42**
0 in to 12 in, 0 to 300 mm	±-0.0012 in	4-Way	Rectangular	B	2 23/64 in	Standard	Insize	**408N43**
Ceramic Jaw Material								
0 in to 6 in, 0 to 150 mm	±-0.0012 in	4-Way	Rectangular	B	1 37/64 in	Standard	Insize	**408P32**
0 in to 8 in, 0 to 200 mm	±-0.0012 in	4-Way	Rectangular	B	1 31/32 in	Standard	Insize	**408P33**
0 in to 12 in, 0 to 300 mm	±-0.0012 in	4-Way	Rectangular	B	2 21/64 in	Standard	Insize	**408P34**
Stainless Steel Jaw Material								
0 in to 4 in, 0 to 100 mm	±0.001 in	4-Way	Round	A	1 37/64 in	Standard	Mitutoyo	**4CGK4**
0 in to 6 in, 0 to 150 mm	±-0.0012 in	4-Way	Round	B	1 37/64 in	Standard	Insize	**408N52**
	±0.0008 in	4-Way	Rectangular	B	1 37/64 in	Nib-Style	Insize	**408N38**
	±-0.03 mm, ±0.001 in	4-Way	Rectangular	D	1 37/64 in	Standard	Mahr	**45PG35**
	±-0.03 mm, ±0.001 in	4-Way	Round	D	1 37/64 in	Standard	Mahr	**45PG33**
	±0.001 in	4-Way	Rectangular	A	2 33/64 in	Standard	Mitutoyo	**5C668**
	±0.001 in, ±0.02 mm	4-Way	—	E	1 ½ in	Standard	Starrett	**53VD37**
	±0.0015 in, ±0.04 mm	4-Way	—	—	1 ½ in	Standard	Starrett	**53VD41**
	±0.0015 in, ±0.04 mm	4-Way	—	E	1 ½ in	Standard	Starrett	**53VD42**
0 in to 8 in, 0 to 200 mm	±-0.0012 in	4-Way	Rectangular	B	1 31/32 in	Nib-Style	Insize	**408N39**
	±-0.03 mm, ±0.001 in	4-Way	Rectangular	—	1 31/32 in	Standard	Mahr	**45PG37**
	±-0.03 mm, ±0.001 in	4-Way	Rectangular	—	1 31/32 in	Standard	Mahr	**45PG38**
	±-0.03 mm, ±0.0015 in	4-Way	Square	—	1 31/32 in	Standard	Westward	**29AD37**
	±-0.03 mm, ±0.0015 in	4-Way	Square	—	1 31/32 in	Standard	Westward	**29AD41**
	±0.001 in	4-Way	Rectangular	A	1 31/32 in	Standard	Mitutoyo	**5C670**
	±0.0015 in, ±0.04 mm	4-Way	—	—	2 in	Standard	Starrett	**53VD43**
	±0.0015 in, ±0.04 mm	4-Way	—	E	2 in	Nib-Style	Starrett	**53VD38**
	±0.0015 in, ±0.04 mm	4-Way	—	E	2 in	Standard	Starrett	**53VD44**
0 in to 18 in, 0 to 450 mm	±0.002 in, ±0.05 mm	Outside, Inside, Step	Square	—	3 35/64 in	Standard	Westward	**29AD39**
0 in to 24 in, 0 to 600 mm	±0.002 in	Outside, Inside, Step	—	—	3 15/16 in	Nib-Style	Insize	**408N67**
0 in to 40 in, 0 to 1,000 mm	±0.0031 in	Outside, Inside, Step	—	—	5 ⅞ in	Standard	Insize	**408N69**

Carbon Fiber Caliper Material **A=Certificate of Inspection, B= Certificate of Inspection with NIST Traceability, C=Long Form Calibration Certificate Traceable to NIST, D= Certificate of Conformance, E=Standard Letter of Certification, F=TUV Rheinland Certification

Stainless Steel 408N49

Carbide-Tipped Jaw Material 45MY13

IP67 Digital Calipers without SPC Output for Harsh & Washdown Enviornments

- Resolution 0.0005 in / 0.01 mm
- 4-Way measurements
- Stainless Steel caliper material except where noted

Range	Accuracy	Depth Rod Shape	Included Certification**	Jaw Depth	Jaw Actuation Type	Brand	Item No.
Carbide-Tipped Jaw Material							
0 in to 6 in, 0 to 150 mm	±0.001 in	Rectangular	A, F	1 37/64 in	Thumb Wheel	Mitutoyo	**41T261**
0 in to 8 in, 0 to 200 mm	±0.001 in	Rectangular	A, F	1 31/32 in	Thumb Wheel	Mitutoyo	**45MY13**
Steel Jaw Material							
0 in to 6 in, 0 to 150 mm	±0.3 mm, ±0.001 in	Rectangular	—	1 ½ in	Slide	Tesa Brown & Sharpe	**38P083**
	±0.25 mm, ±0.001 in	Rectangular	—	1 ½ in	Slide	Tesa Brown & Sharpe	**38P082**
Stainless Steel Jaw Material							
0 in to 6 in, 0 to 150 mm	±-0.0012 in	Rectangular	D	1 37/64 in	Thumb Wheel	Insize	**408N49**
	±0.001 in	Rectangular	A, F	1 37/64 in	Thumb Wheel	Mitutoyo	**2VNH6**
	±-0.03 mm, ±0.001 in	Round	D	1 37/64 in	Slide	Mahr	**45PG54**
	±-0.03 mm, ±0.001 in	Round	D	1 37/64 in	Thumb Wheel	Mahr	**45PG55**
	±-0.03 mm, ±0.001 in	—	—	1 ½ in	Thumb Wheel	Starrett	**6PCN2**
	±-0.03 mm, ±0.001 in	Round	A, D	1 37/64 in	Thumb Wheel	Tesa Brown & Sharpe	**49U599**
0 in to 8 in, 0 to 200 mm	±0.001 in	Rectangular	F, A	1 31/32 in	Thumb Wheel	Mitutoyo	**2VRA8**
	±-0.03 mm, ±0.001 in	—	—	1 ⅞ in	Thumb Wheel	Starrett	**6PCN3**
	±-0.03 mm, ±0.001 in	Square	A, D	1 31/32 in	Thumb Wheel	Tesa Brown & Sharpe	**38P084**
0 in to 12 in, 0 to 300 mm	±0.0015 in	Rectangular	F, A	2 33/64 in	Thumb Wheel	Mitutoyo	**4CGL6**
	±-0.0012 in	Rectangular	B	2 23/64 in	Thumb Wheel	Insize	**408N51**
	±-0.03 mm, ±0.001 in	—	—	2 ½ in	Thumb Wheel	Starrett	**6PCN4**
Long Form Calibration Certificate: Yes, Carbide-Tipped Jaw Material							
0 in to 6 in, 0 to 150 mm	±0.001 in	Rectangular	F, B	1 37/64 in	Thumb Wheel	Mitutoyo	**41T266**
0 in to 8 in, 0 to 200 mm	±0.001 in	Rectangular	F, C	1 31/32 in	Thumb Wheel	Mitutoyo	**41T267**
Long Form Calibration Certificate: Yes, Stainless Steel Jaw Material							
0 in to 6 in, 0 to 150 mm	±0.001 in	Rectangular	F, C	1 37/64 in	Thumb Wheel	Mitutoyo	**36J723**
0 in to 12 in, 0 to 300 mm	±0.0015 in	Rectangular	F, C	2 33/64 in	Thumb Wheel	Mitutoyo	**36J724** *

Carbon Fiber Caliper Material **A=Certificate of Inspection, B= Certificate of Inspection with NIST Traceability, C=Long Form Calibration Certificate Traceable to NIST, D= Certificate of Conformance, F=TUV Rheinland Certification

For more information on Precision Measuring Instruments, see page 2325.

IP67, Stainless Steel Jaw 4CGL7

IP66, Carbon Fiber Jaw Material 4CGN1

Long Form Calibration, IP67, Stainless Steel 5UAT8

IP66 & IP67 Digital Calipers with SPC Output for Harsh & Washdown Environments

- 0.0005 in / 0.01 mm Resolution
- For SPC processors and accessories, see page 2336

Range	Accuracy	Data Output Type	Measurements	Depth Rod Shape	Included Certification**	Jaw Depth	Jaw Actuation Type	Brand	Item No.
IP67, Carbide-Tipped Jaw Material									
Stainless Steel Caliper Material									
0 in to 6 in, 0 to 150 mm	±0.001 in	Cabled	4-Way	Rectangular	F, A	1 37/64 in	Thumb Wheel	Mitutoyo	**36J721**
IP67, Stainless Steel Jaw Material									
Stainless Steel Caliper Material									
0 in to 6 in, 0 to 150 mm	±-0.03 mm, ±0.001 in	Cabled	4-Way	—	—	1 ½ in	Thumb Wheel	Starrett	**5UAT7**
	±-0.03 mm, ±0.001 in	Wireless with Transmitter	4-Way	Rectangular	D	1 37/64 in	Thumb Wheel	Mahr	**45PG44**
	±0.001 in	Cabled	4-Way	Rectangular	F, A	1 37/64 in	Thumb Wheel	Mitutoyo	**4CGL7**
Stainless Steel Jaw Material									
0 in to 8 in, 0 to 200 mm	±-0.03 mm, ±0.001 in	Built-In Wireless	4-Way	Square	A, D	1 31/32 in	Thumb Wheel	Tesa Brown & Sharpe	**38P084**
IP67, Stainless Steel Jaw Material									
0 in to 8 in, 0 to 200 mm	±-0.03 mm, ±0.001 in	Cabled	4-Way	—	—	1 7/8 in	Thumb Wheel	Starrett	**5UAT9**
	±0.001 in	Cabled	4-Way	Rectangular	F, A	1 31/32 in	Thumb Wheel	Mitutoyo	**4CGL8**
	±0.001 in	Cabled	Outside, Inside	Rectangular	F	2 23/64 in	Slide	Mitutoyo	**33RK79**
0 in to 12 in, 0 to 300 mm	±-0.03 mm, ±0.001 in	Built-In Wireless	4-Way	Square	A, D	2 33/64 in	Thumb Wheel	Tesa Brown & Sharpe	**38P085**
	±-0.03 mm, ±0.001 in	Cabled	4-Way	—	—	2 ½ in	Thumb Wheel	Starrett	**5UAU1**
	±0.0015 in	Cabled	4-Way	Rectangular	F, A	2 33/64 in	Thumb Wheel	Mitutoyo	**36J720**
	±0.0015 in, ±0.04 mm	Wireless with Transmitter	Outside, Inside, Step	—	D	2 ½ in	Slide	Mahr	**45PG47**
0 to 200 mm	±0.02 mm	Cabled	4-Way	Rectangular	A	1 31/32 in	Thumb Wheel	Mitutoyo	**33RK78**
Steel Jaw Material									
Steel Caliper Material									
0 in to 6 in, 0 to 150 mm	±0.25 mm, ±0.001 in	Cabled, Built-In Wireless	4-Way	Rectangular	—	1 ½ in	Slide	Tesa Brown & Sharpe	**38P082**
IP66, Carbon Fiber Jaw Material									
Carbon Fiber Caliper Material									
0 in to 18 in, 0 to 450 mm	±0.002 in	Cabled	Inside	—	—	3 15/16 in	Slide	Mitutoyo	**4CGN1**
0 in to 24 in, 0 to 600 mm	±0.002 in	Cabled	Inside	—	—	3 15/16 in	Slide	Mitutoyo	**4CGN2**
0 in to 40 in, 0 to 1,000 mm	±0.002 in	Cabled	Inside	—	—	5 7/8 in	Slide	Mitutoyo	**4CGN3**
0 in to 60 in, 0 to 1,500 mm	±0.004 in	Cabled	Outside, Inside	—	—	5 7/8 in	Slide	Mitutoyo	**4CGN4**
Long Form Calibration Certificate: Yes, IP67, Stainless Steel Jaw Material									
Stainless Steel Caliper Material									
0 in to 6 in, 0 to 150 mm	±-0.03 mm, ±0.001 in	Cabled	4-Way	—	C	1 ½ in	Thumb Wheel	Starrett	**5UAT8**
	±0.001 in	Cabled	4-Way	Rectangular	F, C	1 37/64 in	Thumb Wheel	Mitutoyo	**36J727**
0 in to 8 in, 0 to 200 mm	—	Cabled	4-Way	—	C	1 7/8 in	Thumb Wheel	Starrett	**5UAU0**
0 in to 12 in, 0 to 300 mm	±-0.03 mm, ±0.001 in	Cabled	4-Way	—	C	2 ½ in	Thumb Wheel	Starrett	**5UAU2**
	±0.0015 in	Cabled	4-Way	Rectangular	F, C	2 33/64 in	Thumb Wheel	Mitutoyo	**41T269**

*****A=Certificate of Inspection, C=Long Form Calibration Certificate Traceable to NIST, D= Certificate of Conformance, F=TUV Rheinland Certification***

Inside Groove 408P10

Inside Point 54GE93

RTJ Ring 408P15

Digital Calipers for Inside Groove and RTJ Groove Diameters

- SPC Output
- 0.005 in/0.01 mm Resolution
- Steel jaw and body
- For SPC processors and accessories see page 2336

Digital calipers for inside groove diameters have specialty jaws that project straight and parallel to each other with outward-facing adjustable contact points for measuring narrow inside grooves. **RTJ (ring-type joint) calipers** have one set of jaws with small, 23° angled contact points that are inserted into RTG grooves to measure outer edge-to-outer edge or inner edge-to-inner edge.

Range	Accuracy	Data Output Type	Jaw Depth	Brand	Item No.
Inside Groove Digital Caliper					
0 in to 14 in, 0 to 350 mm	+/-0.002 in, +/-0.05 mm	Cable	3 15/16 in	Starrett	**5UAH7**
0.35 in to 6 in, 9 to 150 mm (Upper Jaw), 0.59 in to 6 in, 15 to 150 mm (Lower Jaw)	+/-0.0016 in	Cable	2 ¾ in	Insize	**408P10**
0.43 in to 6 in, 11 to 150 mm	+/-0.0016 in	Cable	1 5/8 in	Insize	**408P55**
1 in to 6 in, 25 to 150 mm	+/-0.0016 in	Cable	1 3/16 in	Insize	**408N53**
1 in to 8 in, 25 to 200 mm	+/-0.0016 in	Cable	1 37/64 in	Insize	**408N54**
1.18 in to 12 in, 25 to 300 mm	+/-0.0020 in	Cable	4 ½ in	Insize	**408P13**
1.2 in to 12 in, 30 to 300 mm	+/-0.0020 in	Cable	1 31/32 in	Insize	**408N55**
Inside Point Digital Caliper					
0.9 in to 6 in, 24 to 150 mm	+/-0.0016 in	Cable	1 11/64 in	Insize	**408N56**
1 in to 8 in, 25 to 200 mm	+/-0.0016 in	Cable	1 37/64 in	Insize	**408N57**
2 in to 12 in, 50 to 300 mm	+/-0.0024 in	Cable	3 9/64 in	Insize	**408N58**
IP67 Rated					
0.80 in to 6 in, 20 to 150 mm	+/-0.0015 in	Cable	1 5/16 in	Mitutoyo	**54GE93**
RTJ Ring Groove Digital Caliper					
0.4 in to 24 in, 10 to 600 mm (Inside Dia.), 1 in to 24 in, 25 to 600 mm (Outside Dia.)	+/-0.0028 in	Cable	15/16 in	Insize	**408P15**
1 in to 12 in, 25 to 300 mm (Outside Dia.), Inside Dia: 0.4 to 12 in, 10 to 300 mm (Inside Dia.)	+/-0.0024 in	Cable	2 ½ in	Insize	**408P14**

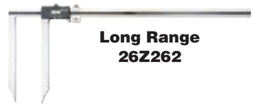
For more information on Precision Measuring Instruments, see page 2325.

Digital Calipers with Blade, Nib & Pointed Jaws for Small Grooves and Recesses

- 0.005 in/0.01 mm Resolution
- SPC Output
- Stainless Steel body and jaws
- For SPC processors and accessories see page 2336

Blade-jaw calipers with laterally thin blades have carbide-tipped measuring faces for determining outside diameters. **Nib jaws** have a small, squared tip rather than a pointed jaw and are used to measure inside diameters. **Pointed jaws** have very narrow tips that are used for determining outside measurements.

Blade Jaw
408P24


Long Range
26Z262

Narrow Tip
54GE91

Nib Jaw
39X541

Pointed Jaw
408P18

Small Point
408P08

Range	Accuracy	Data Output Type	Jaw Shape	Jaw Depth	Measurements	IP Rating	Brand	Item No.
Blade Jaw Digital Caliper								
0 in to 6 in, 0 to 150 mm	+/-0.0012 in	Cable	Knife Edge	1 37/64 in	4-Way	Not Rated	Insize	**408P24**
0 in to 6 in, 0 to 150 mm	+/-0.001 in	Cable	Knife Edge with Small Point	1 9/16 in	Inside, Outside, Step	IP67	Mitutoyo	**54GE92**
0 in to 8 in, 0 to 200 mm	+/-0.0012 in	Cable	Knife Edge	1 31/32 in	4-Way	Not Rated	Insize	**408P25**
0 in to 12 in, 0 to 300 mm	+/-0.0016 in	Cable	Knife Edge	2 23/64 in	4-Way	Not Rated	Insize	**408P26**
Long Range Deep Nib Jaw Digital Caliper								
0 in to 24 in, 0 to 600 mm	+/-0.002 in, +/-0.05 mm	Cable, Wireless	Nib Edge	12 in	Inside, Outside	Not Rated	Starrett	**26Z262**
Long Range Nib/Knife Edge Jaw Digital Caliper								
0 in to 20 in, 0 to 500 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	5 7/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ82**
0 in to 24 in, 0 to 600 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	5 7/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ83**
0 in to 32 in, 0 to 800 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	5 7/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ84**
0 in to 39 in, 0 to 1000 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	5 7/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ85**
Narrow Tip Jaw Digital Caliper								
0 in to 6 in, 0 to 150 mm	+/-0.001 in	Cable	Knife Edge with Small Point	1 9/16 in	Inside, Outside, Step	IP67	Mitutoyo	**54GE91**
Nib/Knife Edge Jaw Digital Caliper								
0 in to 8 in, 0 to 200 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	3 1/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ79**
0 in to 10 in, 0 to 250 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	3 1/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ80**
0 in to 10 in, 0 to 250 mm	+/-0.001 in, +/-0.02 mm	Cable; Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	3 1/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ78**
0 in to 12 in, 0 to 300 mm	+/-0.001 in, +/-0.02 mm	Cable, Wireless	Nib-Style (Lower Jaw)/ Knife Edge (Upper Jaw)	3 1/8 in	Inside, Outside, Step	IP67	Tesa Brown & Sharpe	**54VJ81**
Nib Jaw Digital Caliper								
0 in to 8 in, 0 to 200 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	3 5/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ71**
0 in to 10 in, 0 to 250 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	3 5/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ72**
0 in to 12 in, 0 to 300 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	3 5/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ73**
0 in to 18 in, 0 to 450 mm	±0.002 in	Cabled	Nib-Style	3 15/16 in	Outside, Inside	IP67	Mitutoyo	**39X541**
0 in to 20 in, 0 to 500 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	5 29/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ74**
0 in to 24 in, 0 to 600 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	5 29/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ75**
0 in to 32 in, 0 to 800 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	5 29/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ76**
0 in to 39 in, 0 to 1,000 mm	±0.001 in, ±0.02 mm	Built-In Wireless	Nib-Style	5 29/32 in	Outside, Inside	IP67	Tesa Brown & Sharpe	**54VJ77**
Pointed Jaw Digital Caliper								
0 in to 6 in, 0 to 150 mm	+/-0.0012 in	Cable	Sharp-Point Tip	1 37/64 in	4-Way	Not Rated	Insize	**408P18**
Small Point Jaw Digital Caliper								
0 in to 6 in, 0 to 150 mm	+/-0.0012 in	Cable	Knife Edge with Small Point	1 9/16 in	4-Way	Not Rated	Insize	**408P08**

Interchangeable-Point, Outside-Point & Outside-Neck Digital Calipers

- 0.0005 in/ 0.01 mm Resolution
- SPC Output
- Steel caliper material
- Steel jaw material
- For SPC processors and accessories see page 2336

These calipers allow users to change the shape and size of jaw contact points so specialized measurements of internal and external grooves can be taken.

Interchangeable Point
408P59

Outside Neck
408P23

Outside Point
392N55

Range	Accuracy	Data Output Type	Jaw Shape	Jaw Depth	Measurements	Brand	Item No.
Interchangeable Point Digital Caliper							
0 in to 7.5 in, 0 to 187 mm, 0.5 in to 8.5 in, 1 in to 8.8 in, 12 to 212 mm, 24 to 224 mm	+/-0.0012 in	Cable	Interchangeable-Tip	1 9/16 in	4-Way	Insize	**408P59**
0 in to 13.3 in, 0 to 340 mm	+/-0.0016 in	Cable	Point Edge	2 3/4 in	Outside	Insize	**408N61**
IP67 Rated							
0 in to 8 in, 0 to 200 mm	+0.001 in, +/-0.03 mm	Cable	Standard Jaw with Optional Interchangeable Points	1 7/8 in	4-Way	Mahr	**446F19**
Outside Neck Digital Caliper							
0 in to 6 in, 0 to 150 mm	+/-0.0016 in	Cable	Outside Neck	1 1/2 in	Outside	Insize	**408P23**
Outside Point Jaw Digital Caliper							
0 in to 6 in, 0 to 150 mm	+/-0.0016 in	Cable	Outside Neck	1 9/16 in	Outside	Insize	**408P19**
IP67 Rated							
0 in to 6 in, 0 to 150 mm	+/-0.0015 in	Cable	Point Edge	1 37/64 in	Inside	Mitutoyo	**392N55**

Dial Depth Gauges with Measuring Rods

- All models full base style

Depth gauges with a single fixed rod or plunger are for short measuring ranges, and interchangeable rods are used for deeper holes and larger ranges.

Range	Graduations	Range per Revolution	Accuracy	No. of Measuring Rods	Contact Point Shape	Base Length	Brand	Item No.
Side Dial Position								
0 in to 0.125 in	0.0005 in	0.05 in	+/-0.001 in	1	Needle	2.5 in	Starrett	**26Z133**
	0.0005 in	0.05 in	+/-0.001 in	1	Needle	2.5 in	Starrett	**2ZUH1**
0 in to 0.5 in	0.0005 in	0.05 in	+/-0.001 in	1	—	2.5 in	Starrett	**26Z132**
	0.0005 in	0.05 in	+/-0.001 in	1	—	2.5 in	Starrett	**26Z129** *
0 in to 1.2 in	0.001 in	0.1 in	+/-0.0012 in	1	Point, Ball	2.5 in	Insize	**55VM78**
0 in to 3 in	0.001 in	0.1 in	+/-0.001 in	1	Rounded	2.5 in	Starrett	**2ZUH2**
0 in to 12 in	0.001 in	0.1 in	+/-0.002 in	5	Point, Ball	2.5 in	Insize	**463J22**
	0.001 in	0.1 in	+/-0.002 in	5	Point, Ball	4 in	Insize	**55VM79**
Top Dial Position								
0 in to 8 in	0.001 in	—	+/-0.002 in	4	Ball	2.5 in	Mitutoyo	**54GF75**
0 in to 8.6 in	0.001 in	0.1 in	+/-0.001 in	5	Point	2.5 in	Starrett	**26Z146**
	0.001 in	0.1 in	+/-0.001 in	5	Point	4 in	Starrett	**26Z143**
0 in to 22 in	—	0.1 in	+/-0.001 in	6	Ball	4 in	Westward	**4KY23** *

Thumb Screw Lock Nut

Side Dial Position
463J22

For more information on Precision Measuring Instruments, see page 2325.

Mitutoyo INSIZE

Digital Depth Gauges with Measuring Rods

- 0.0005 in/0.02 mm Resolution
- Full base style
- SPC Output
- For SPC processors and accessories, see page 2336

LCD display is fixed on the frame and provides high-resolution decimal inch and metric measurements. The low profile is ideal for getting into and measuring smaller holes.

55VM74

Range	Accuracy	No. of Measuring Rods	Data Output Type	Contact Point Shape	Base Length	Case Included	Brand	Item No.
0 in to 8 in, 0 mm to 200 mm	±0.0003 in	4	Cable	Curved	2 ½ in	Yes	Mitutoyo	**6NRD0**
	±0.001 in	4	Cable	Curved	2 ½ in	Yes	Mitutoyo	**4CGV7**
0 in to 12 in, 0 mm to 300 mm	±0.0008 in	6	Wireless with Transmitter	Ball, Pointed	2 31⁄64 in	—	Insize	**55VM74**
	±0.0008 in	6	Wireless with Transmitter	Ball, Pointed	4 in	—	Insize	**55VM75**

Solid-Rod 2ZUC4

Tubular-Rod 462U90

Starrett INSIZE Mitutoyo

Inside Micrometers

- 0.001 in resolution
- Plain thimble type
- Curved contact point except where noted

Mechanical tubular-rod inside micrometers use interchangeable hollow, light-weight rods to measure the inside dimensions of holes, tubes, pipes, cylinders, rings, and other parts. The measurement is taken on the vernier scale.

Range	Accuracy	No. of Measuring Rods	Rod Diameter	Brand	Item No.
Solid Rod Inside Micrometer					
Steel Contact Point Material					
2 in to 8 in	+/-0.005 in	6	¼ in	Starrett	**2ZUC4**
2 in to 12 in	+/-0.005 in	10	¼ in	Starrett	**2ZUC5**
8 in to 32 in	+/-0.005 in	4	¼ in	Starrett	**5UAA8**
Tubular Inside Micrometer					
Carbide Contact Point Material					
1 in to 11 in	+/-0.00036 in	1	0.709 in	Insize	**462U90**
2 in to 4 in	+/-0.00155 in	8	0.709 in	Insize	**462U67**
2 in to 6 in	+/-0.00215 in	10	0.709 in	Insize	**462U69**
2 in to 6 in	+/-0.00045 in	3	0.709 in	Insize	**462U68**
2 in to 20 in	+/-0.00095 in	6	0.709 in	Insize	**462U66**
4 in to 5 in	+/-0.00024 in	1	0.709 in	Insize	**462U95**
4 in to 36 in	+/-0.00005 in	5	0.709 in	Insize	**462U71**
5 in to 6 in	+/-0.00024 in	1	0.709 in	Insize	**462U96**
11 in to 12 in	+/-0.00036 in	1	0.709 in	Insize	**462U91**
12 in to 13 in	+/-0.00036 in	1	0.709 in	Insize	**462U92**
Steel Contact Point Material					
1 in to 2 in	+/-0.00035 in	2	0.709 in	Insize	**462U61**
1.5 in to 8 in	+/-0.005 in	5	⅜ in	Starrett	**2ZUC6**
1.5 in to 12 in	+/-0.005 in	8	⅜ in	Starrett	**2ZUC7**
1.5 in to 12 in	+/-0.000425 in	8	8mm	Mitutoyo	**4LA56** *
1.5 in to 32 in	+/-0.005 in	10	⅜ in	Starrett	**30A226**
4 in to 24 in	+/-0.005 in	7	⅜ in	Starrett	**5UAA9**
4 in to 32 in	+/-0.005 in	8	⅜ in	Starrett	**5UAC0**
4 in to 40 in	+/-0.1325 mm	10	0.61 in	Mitutoyo	**4CGT7**
4 in to 40 in	+/-0.005 in	10	⅜ in	Starrett	**2ZUC8** *
6 in to 78 in	+/-0.005 in	9	½ in	Starrett	**5UAA7**
8 in to 20 in	+/-0.0008 in	3	0.709 in	Insize	**462U62**
8 in to 40 in	+/-0.0003 in	8	0.709 in	Insize	**462U63**

**Flat Contact Point*

55VM71

45PG50

INSIZE Starrett Mitutoyo Mahr

Blade-Style Digital Depth Gauges

- 0.0005 in/0.05 mm Resolution
- SPC Output
- For SPC processors and accessories, see page 2336

Blade-style digital-depth gauges different tip shapes allow for a range of hole measurements including depth-of-groove/feature measurements. These gauges consist of a blade/scale that is lowered into a hole.

Depth Gauge Type	Range	Accuracy	Data Output Type	Blade Tip Shape	Brand	Item No.
Blade-Style	0 in to 12 in, 0 mm to 300 mm	±0.0012 in	Wireless with Transmitter	Flat	Insize	**55VM63**
	0 in to 12 in, 0 mm to 300 mm	±0.0015 in	Cable	Flat	Mitutoyo	**4CGW1**
	0 in to 12 in, 0 mm to 300 mm	±0.002 in	Cable	Flat with Removable Hook	Starrett	**5UAG3**
	0 in to 4 in, 0 to 100 mm	±0.03 mm	Cable	Flat	Mahr	**446F26**
	0 in to 6 in, 0 mm to 150 mm	±0.0012 in	Wireless with Transmitter	Hook	Insize	**55VM68**
	0 in to 6 in, 0 mm to 150 mm	±0.001 in	Cable	Flat	Mitutoyo	**4CGV8**
	0 in to 8 in, 0 mm to 200 mm	±0.0012 in	Wireless with Transmitter	Hook	Insize	**54XJ05**
	0 in to 8 in, 0 mm to 200 mm	±0.001 in	Cable	Flat	Mitutoyo	**4CGV9**
Blade-Style with Round Tip	0 in to 24 in, 0 to 600 mm	±0.002 in	Cable	Flat with Removable Hook	Starrett	**5UAG6**
	0 in to 8 in, 0 mm to 200 mm	±0.0012 in	Wireless with Transmitter	Round Depth Bar	Insize	**55VM71**
Flat Rule	0 in to 12 in, 0 mm to 300 mm	±0.04 mm	Cable	Flat	Mahr	**45PG50**
	0 in to 20 in, 0 mm to 500 mm	±0.05 mm	Wireless	Flat	Mahr	**45PG53**

Carbide 462U83

Steel No 38P020

TESA TECHNOLOGY INSIZE brown & sharpe

Mechanical 3-Point Inside Micrometers

- Curved contact shape
- Ratchet thimble type except where noted

The operator then reads the vernier scale. With three contact points, these micrometers are self-centering, eliminating errors when taking two-point measurements off of center.

Range	Res.	Accuracy	Maximum Measuring Depth	No. of Micrometers	No. of Measuring Rods	Brand	Item No.
Carbide Contact Point Material							
0.8 in to 2 in	0.0002 in	+/-0.00016 in	9.819 in	4	0	Insize	**462U83** *
2 in to 2.5 in	0.0002 in	+/-0.0002 in	10.488 in	1	0	Insize	**462U84**
2 in to 4 in	0.0002 in	+/-0.0002 in	10.488 in	4	0	Insize	**462U88**
Steel Contact Point Material							
0.275 in to 0.5 in	0.0001 in	—	—	3	1	Tesa Brown & Sharpe	**38P020**
0.8 in to 1.6 in	0.0001 in	—	—	1	0	Tesa Brown & Sharpe	**54VK80**
1.6 in to 2 in	0.0001 in	—	—	1	0	Tesa Brown & Sharpe	**54VK71**
2.8 in to 3.2 in	0.0001 in	—	—	1	0	Tesa Brown & Sharpe	**54VK74**
4 in to 5 in	0.0001 in	—	—	1	0	Tesa Brown & Sharpe	**54VK77**
4 in to 8 in	0.0001 in	—	—	1	0	Tesa Brown & Sharpe	**54VK82**

**Friction Thimble Type*

For more information on Precision Measuring Instruments, see page 2325.

Starrett® INSIZE

IP65 Digital 3-Point Inside Micrometers for Harsh & Washdown Environments

- 0.0005 in/ 0.001 mm Resolution
- Ratchet-stop thimble
- Curved contact point shape
- SPC Output
- For SPC processors and accessories see page 2336

Range	Accuracy	Maximum Measuring Depth	Data Output Type	Brand	Item No.
Carbide Contact Point Material					
0.25 in to 0.3125 in, 6 mm to 8 mm	+/-0.00015 in; +/-0.004 mm	2.25 in	Cable, Wireless with Transmitter	Starrett	**53VE40**
1 in to 11 in, 250 mm to 275 mm	+/-0.00035 in; +/-0.009 mm	4.625 in	Cable, Wireless with Transmitter	Starrett	**53VE31**
3.25 in to 4 in, 80 mm to 100 mm	+/-0.0002 in	4 in	Cable, Wireless with Transmitter	Starrett	**53VE43**
11 in to 12 in, 275 mm to 300 mm	+/-0.00035 in; +/-0.009 mm	4.625 in	Cable, Wireless with Transmitter	Starrett	**53VE32**
16 mm to 20 mm, 0.625 in to 0.75 in	+/-0.00015 in; +/-0.004 mm	2.625 in	Cable, Wireless with Transmitter	Starrett	**53VE49**
101 mm to 127 mm, 4 in to 5 in	+/-0.00025 in; +/-0.006 mm	6 in	Cable	Insize	**54XH72**
127 mm to 152 mm, 5 in to 6 in	+/-0.00025 in; +/-0.006 mm	6 in	Cable	Insize	**54XH73**
Steel Contact Point Material					
0.425 in to 0.5 in, 11 mm to 13 mm	+/-0.00015 in; +/-0.004 mm	2.18 in	Cable	Insize	**55VM84**

Carbide 53VE40

Steel 55VM84

INSIZE Mitutoyo Starrett®

IP65 & IP67 Digital Outside Micrometers without SPC for Harsh & Washdown Environments

- 0.00005 in./0.001 mm Resolution
- Ratchet thimble except where noted

Range	Accuracy	Brand	Item No.
Carbide Anvil			
IP65 Rating			
0 in to 1 in, 0 to 25 mm	±2 µm	Insize	**54XH93**
Flat Anvil			
IP65 Rating			
0 in to 1 in, 0 to 25 mm	±0.00005 in	Mitutoyo	**2NXD5**
0 in to 1 in, 0 to 25 mm	±0.00005 in	Mitutoyo	**2NXD3**
0 in to 1 in, 0 to 25 mm	±0.0001 in	Mitutoyo	**4CGG2**
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**1ARB6**
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**4LA70**
0 to 25 mm	±1 µm	Mitutoyo	**16X239**
1 in to 2 in	±0.00005 in	Mitutoyo	**2NXD6**
1 in to 2 in, 25.4 to 50.8 mm	±0.00005 in	Mitutoyo	**6NPY6**
1 in to 2 in, 25.4 to 50.8 mm	±0.00005 in	Mitutoyo	**4CGF8** *
1 in to 2 in, 25.4 to 50.8 mm	±0.00005 in	Mitutoyo	**4LA71**
2 in to 3 in, 50.8 to 76.2 mm	±0.00005 in	Mitutoyo	**6NPY7**
3 in to 4 in, 76.2 to 101.6 mm	±0.0001 in	Mitutoyo	**4CGG1**
IP67 Rating			
0 in to 1 in, 0 to 25 mm	±0.00005 in	Starrett	**2ZTX2** *
0 in to 1 in, 0 to 25 mm	±0.00005 in	Starrett	**2ZTX6**
1 in to 2 in	±0.0001 in	Starrett	**53VD16** *
1 in to 2 in, 25 to 50 mm	±0.0001 in	Starrett	**53VD19**
Long Form Calibration Certificate Long Form Calibration Certificate Traceable to NIST, IP65 Rating			
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**1ARD4** †
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**1ARB5** †
Flat Carbide Tipped Anvil			
IP65 Rating			
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**54GF36** †
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**4LA73**
1 in to 2 in, 25.4 to 50.8 mm	±0.00005 in	Mitutoyo	**1ARD5**
2 in to 3 in, 50.8 to 76.2 mm	±0.00005 in	Mitutoyo	**4CGF9**
Long Form Calibration Certificate Long Form Calibration Certificate Traceable to NIST, IP65 Rating			
0 in to 1 in, 0 to 25.4 mm	±0.00005 in	Mitutoyo	**36J712**
1 in to 2 in, 25.4 to 50.8 mm	±0.00005 in	Mitutoyo	**36J711**
2 in to 3 in, 50.8 to 76.2 mm	±0.00005 in	Mitutoyo	**36J714**

**Friction Thimble † Rotating Thimble*

Flat Anvil 54XH93

Flat Anvil 6NPY6

Flat Carbide 1ARD5

Ratchet 462U26

Mitutoyo Starrett® WESTWARD® TESA TECHNOLOGY INSIZE Mahr brown & sharpe

Outside Micrometers with Direct-Reading Vernier Scale

These carbide-tipped mechanical micrometers are the standard/classic micrometer design for most high-precision outside dimension measurements when higher resolution than a caliper is required.

Range	Accuracy	Rotating Spindle	Thimble Type	Brand	Item No.
0.0001 in Resolution					
0 in to 1 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C688**
	+/-0.00016 in	Yes	Friction	Westward	**4KU90**
	+/-0.0001 in	No	Friction	Starrett	**2ZTZ7**
	+/-0.0001 in	No	Friction	Mitutoyo	**4CGA3**
	+/-0.0001 in	No	Friction	Starrett	**3DZR6**
	+/-0.0001 in	No	Ratchet	Starrett	**2ZTX8**
	+/-0.0001 in	No	Ratchet	Mitutoyo	**4CGA2**
0 in to 3 in	+/-0.00020 in	Yes	Ratchet	Insize	**462U26**
0 in to 4 in	+/-0.00020 in	Yes	Ratchet	Insize	**462U28**
1 in to 2 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C689**
	+/-0.0001 in	No	Friction	Starrett	**2ZTZ9**
	+/-0.0001 in	Yes	Ratchet	Starrett	**53VC95**
2 in to 3 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C683**
	+/-0.0002 in	Yes	Ratchet	Mahr	**446F05**
3 in to 4 in	+/-0.0015 in	No	Friction/Ratchet	Mitutoyo	**5C684**
	+/-0.0002 in	Yes	Ratchet	Mahr	**446F06**
	+/-0.0001 in	Yes	Fixed/Friction	Tesa Brown & Sharpe	**499K43**
	+/-0.0001 in	Yes	Ratchet	Starrett	**53VC97**
	+/-0.00005 in	Yes	Friction	Starrett	**30A467**
4 in to 5 in	+/-0.0015 in	No	Friction/Ratchet	Mitutoyo	**5C685**
	+/-0.0001 in	Yes	Ratchet	Starrett	**53VC98**
5 in to 6 in	+/-0.0015 in	No	Friction/Ratchet	Mitutoyo	**5C686**
	+/-0.0001 in	Yes	Ratchet	Starrett	**53VC99**
6 in to 7 in	+/-0.0001 in	Yes	Ratchet	Starrett	**53VC91**
0.001 in Resolution					
0 in to 1 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C687**
	+/-0.001 in	Yes	Ratchet	Westward	**2YNA1**
	+/-0.0001 in	No	Ratchet	Starrett	**2ZTZ6**
	+/-0.0001 in	No	Ratchet	Mitutoyo	**4CGC4**
0 mm to 25 mm	+/-0.002 mm	Yes	Ratchet	Starrett	**53VD01**
1 in to 2 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C681**
	+/-0.0001 in	No	Friction	Mitutoyo	**4CGC6**
	+/-0.0001 in	No	Ratchet	Starrett	**2ZTZ8**
2 in to 3 in	+/-0.001 in	No	Friction/Ratchet	Mitutoyo	**5C682**
	+/-0.0001 in	No	Ratchet	Starrett	**2ZUA1**
3 in to 4 in	+/-0.00015 in	No	Ratchet	Mitutoyo	**4CGC7**
	+/-0.0001 in	No	Ratchet	Starrett	**2ZUA3**
4 in to 5 in	+/-0.0001 in	No	Ratchet	Starrett	**2ZUA4**
5 in to 6 in	+/-0.0001 in	No	Ratchet	Starrett	**2ZUA5**
6 in to 7 in	+/-0.0002 in	No	Ratchet	Mitutoyo	**4CGC8**

Digital Outside Micrometer Sets

Mitutoyo Starrett® INSIZE Mahr

- For SPC processors and accessories see page 2336

These digital outside micrometer sets contain individual micrometers in measuring range increments of 1 inch or 25mm. They have the same construction, finish, graduation, and thimble type, so users get the same style and feel across a broad range of measurements.

Number of Micrometers	Res.	Accuracy	Thimble Type	IP Rating	Data Output Type	Brand	Item No.
0 in to 3 in							
3	0.00005 in	+/-0.00005 in	Ratchet	IP65	Cable	Mitutoyo	**4LA77**
0 in to 4 in							
4	0.00005 in	+/-0.00005 in, +/-0.0001 in	Ratchet	IP65	Cable	Mitutoyo	**4CGG3**
4	0.0001 in	+/-0.0001 in	Ratchet	Not Rated	No Output	Starrett	**53VD24**
—	0.00005 in/0.001 mm	+/-0.00010 in, +/-0.00015 in	Rachet	IP65	Cable, Wireless	Insize	**462T90**
—	0.00005 in/0.001 mm	±0.002 mm	Ratchet	IP65	Wireless	Mahr	**446F09**
0 in to 6 in							
6	0.00005 in	+/-0.0001 in	Friction	Not Rated	No Output	Starrett	**30A542**
6	0.0001 in	+/-0.0001 in	Ratchet	Not Rated	No Output	Starrett	**53VD25**
—	0.00005 in/0.001 mm	+/-0.00010 in, +/-0.00015 in	Rachet	IP65	Cable, Wireless	Insize	**462T92**

0 in to 6 in 30A542

For more information on Precision Measuring Instruments, see page 2325.

0 in to 6 in
462U32

WESTWARD Mitutoyo Starrett INSIZE

Vernier Scale Outside Micrometer Sets

Vernier scale outside micrometer sets come with multiple mechanical micrometers of the same style across a span of measuring ranges. These micrometers have the same construction, finish, graduations, and thimble type, and increase in 1" or 25mm increments. These sets are commonly used in automotive service and machine shops, tool rooms, and in inspection departments.

Number of Micrometers	Micrometers Incl.	Res.	Accuracy	Thimble Type	Brand	Item No.
0 in to 3 in						
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0002 in	Friction/ Ratchet	Westward	**4KU86**
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0002 in (6 in to 9 in), +/-0.00025 in (9 in to 12 in)	Ratchet	Mitutoyo	**4CGD5**
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Friction	Starrett	**2ZUA6**
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Friction/ Ratchet	Mitutoyo	**5C673**
3	1 in, 2 in, 3 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	**5UAV2**
3	1 in, 2 in, 3 in	0.001 in	+/-0.0001 in	Ratchet	Mitutoyo	**4CGD1**
0 in to 4 in						
4	1 in, 2 in, 3 in, 4 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	**2ZUA7**
4	1 in, 2 in, 3 in, 4 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	**54GE37**
4	1 in, 2 in, 3 in, 4 in	0.001 in	+/-0.001 in	Ratchet	Westward	**2YNC1**
4	1 in, 2 in, 3 in, 4 in	0.001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	**5C674**
0 in to 6 in						
6	0 to 1 in, 1 to 2 in, 2 to 3 in, 3 to 4 in, 4 to 5 in, 5 to 6 in	0.0001 in	+/-0.00016 in (0 in to 2 in), +/-0.00020 in (2 in to 4 in), +/-0.00024 in (4 in to 6 in)	Ratchet	Insize	**462U32**
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	**30A568**
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Friction/ Ratchet	Mitutoyo	**1MDW5**
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0004 in	Friction/ Ratchet	Westward	**2YNC2**
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	**2ZUA8**
6	1 in, 2 in, 3 in, 4 in, 5 in, 6 in	0.001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in)	Ratchet	Mitutoyo	**54GF71**
0 in to 12 in						
12	1 in, 2 in, 11 in, 12 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in, 10 in	0.0001 in	+/-0.0001 in (0 in to 3 in), +/-0.00015 in (3 in to 6 in), +/-0.0002 in (6 in to 9 in), +/-0.00025 in (9 in to 12 in)	Friction/ Ratchet	Mitutoyo	**4CGD4**
12	1 in, 10 in, 11 in, 12 in, 2 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	**30A570**
12	1 in, 10 in, 11 in, 12 in, 2 in, 3 in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	**5UAA4**
6 in to 12 in						
6	10 in, 11 in, 12 in, 7 in, 8 in, 9 in	0.0001 in	+/-0.0001 in	Ratchet	Starrett	**30A569**
6	10 in, 11 in, 12 in, 7 in, 8 in, 9 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	**5UAA5**
6	10 to 11 in, 11 to 12 in, 6 to 7 in, 7 to 8 in, 8 to 9 in, 9 to 10 in	0.0001 in	+/-0.00028 in (6 in to 8 in), +/-0.00031 in (8 in to 10 in), +/-0.00035 in (10 in to 12 in)	Ratchet	Insize	**462U10**
12 in to 24 in						
12	13 in, 14 in, 15 in, 16 in, 17 in, 18 in, 19 in, 20 in, 21 in, 22 in, 23 in, 24 in	0.001 in	+/-0.0001 in	Ratchet	Starrett	**5UAA6**

Digital
4CGG5

Mechanical
462V29

Mitutoyo Starrett INSIZE

Spherical Face Micrometers

- For SPC processors and accessories see page 2336

Spherical face micrometers, also known as round or rounded face micrometers, have a standard outside micrometer body, thimble, and C-shaped jaw. Both contact faces are rounded, and they are commonly used to take measurements of rounded features.

Range	Res.	Accuracy	Thimble Type	IP Rating	Spindle	Spindle Diameter	Included Certification	SPC Output	Brand	Item No.
Digital										
IP65 Rated										
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	**1ARD8**
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Spherical	18 mm	—	Yes	Mitutoyo	**1ARD9**
0 in to 1 in, 0 mm to 25 mm	0.00005 in/0.001 mm	±0.0001 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	**6NPZ2**
0 in to 1 in, 0 mm to 25 mm	0.00005 in/0.001 mm	±0.0001 in	Ratchet	IP65	Spherical	18 mm	Certificate of Inspection	Yes	Mitutoyo	**4CGG5**
Mechanical										
0 in to 0.5 in	0.001 in	±0.0001 in	Ratchet	—	Flat	0.2 in	—	No	Starrett	**30A448**
0 in to 1 in	0.001 in	+/-0.0001 in	Plain	—	Flat	0.25 in	—	No	Starrett	**2ZTZ4**
0 in to 1 in	0.0001 in	±0.00016 in	Ratchet	—	Flat	0.256 in	—	No	Insize	**462V29**
1 in to 2 in	0.0001 in	+/-0.00015 in	Ratchet	—	Flat	0.197 in	—	No	Insize	**462W41**
1 in to 2 in	0.0001 in	±0.00016 in	Ratchet	—	Flat	0.256 in	—	No	Insize	**462V30**
2 in to 3 in	0.0001 in	+/-0.00020 in	Ratchet	—	Flat	0.197 in	—	No	Insize	**462W42**
2 in to 3 in	0.0001 in	±0.0002 in	Ratchet	—	Flat	0.256 in	—	No	Insize	**462V31**
3 in to 4 in	0.0001 in	+/-0.00020 in	Ratchet	—	Flat	0.197 in	—	No	Insize	**462W43**
IP65 Rated										
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Flat	18 mm	Certificate of Inspection	Yes	Mitutoyo	**4CGE2**
0 in to 1 in	0.0001 in	+/-0.00015 in	Ratchet	IP65	Spherical	18 mm	Certificate of Inspection	Yes	Mitutoyo	**4CGE3**

Digital
462W17

Mechanical
462U43

INSIZE

Adjustable-Collar & Interchangeable-Anvil Outside Micrometers

- Ratchet thimble
- Digital Micrometers have cable, wireless w/transmitter data output
- Digital Micrometers have SPC output
- For SPC processors and accessories see page 2336

Interchangeable anvil outside micrometers have a standard micrometer C-shaped jaw and stock, but have anvils that can be changed to accommodate a range of applications.

Range	Res.	Accuracy	Item No.
Digital			
IP65 Rated			
0 in to 4 in, 0 to 100 mm	0.00005 in/0.001 mm	±0.0002 in	**462W07**
0 in to 6 in, 0 to 150 mm	0.00005 in/0.001 mm	±0.00025 in	**462W08**
12 in to 16 in, 300 to 400 mm	0.0001 in/0.001 mm	±0.00035 in	**462W11**
16 in to 20 in, 400 to 500 mm	0.0001 in/0.001 mm	±0.00045 in	**462W12**
20 in to 24 in, 500 to 600 mm	0.0001 in/0.001 mm	±0.00045 in	**462W13**
24 in to 28 in, 600 to 700 mm	0.0001 in/0.001 mm	±0.0005 in	**462W14**
28 in to 32 in, 700 to 800 mm	0.0001 in/0.001 mm	±0.0006 in	**462W15**
32 in to 36 in, 800 to 900 mm	0.0001 in/0.001 mm	±0.0006 in	**462W16**
36 in to 40 in, 900 to 1000 mm	0.0001 in/0.001 mm	±0.00065 in	**462W17**
150 to 300 mm, 6 in to 12 in	0.0001 in/0.001 mm	±0.0003 in	**462W09**
200 to 300 mm, 8 in to 12 in	0.0001 in/0.001 mm	±0.0003 in	**462W10**
Mechanical			
40 in to 48 in	0.0005 in	+/-0.00087 in	**462U39**
48 in to 56 in	0.0005 in	+/-0.00094 in	**462U40**
56 in to 64 in	0.0005 in	+/-0.00110 in	**462U41**
64 in to 72 in	0.0005 in	+/-0.00122 in	**462U42**
72 in to 80 in	0.0005 in	+/-0.00134 in	**462U43**

TESA TECHNOLOGY

For more information on Precision Measuring Instruments, see page 2325.

brown & sharpe INSIZE Starrett Mitutoyo

Dial Indicators

- Conform to American Gage Design (AGD) standards

If tolerances are bilateral, a balanced dial is preferred. If tolerance is unilateral, a continuous dial is preferred.

Balanced Reading 2ZUH4

Continuous Reading 408R60

Reverse-Reading Continuous Reading 409U13

Range	Graduations	Dial Size	Dial Reading	Range per Revolution	Brand	Item No.
Balanced Reading						
AGD 1						
0 in to 0.035 in	0.0005 in	2.25 in	0-20-0	0.35 in	Tesa Brown & Sharpe	**45JK43**
	0.001 in	2.25 in	0-50-0	0.35 in	Tesa Brown & Sharpe	**45JK42**
0 in to 0.05 in	0.001 in	1.69 in	0-5-0	0.05 in	Tesa Brown & Sharpe	**45JK34**
0 in to 0.2 in	0.0005 in	2.25 in	0-5-0	0.2 in	Tesa Brown & Sharpe	**45JK37**
	0.001 in	1.58 in	0-10	0.02 in	Insize	**409L49**
0 in to 0.25 in	0.001 in	1.69 in	0-50-0	0.1 in	Starrett	**2ZUH4**
	0.001 in	1.69 in	0-50-0	0.25 in	Tesa Brown & Sharpe	**45JK40**
	0.001 in	40 mm	0-50-0	0.1 in	Mitutoyo	**6NRA5**
AGD 2						
0 in to 0.025 in	0.0001 in	57 mm	0-5-0	0.01 in	Mitutoyo	**6NRA7**
0 in to 0.05 in	0.0001 in	57 mm	0-5-0	0.01 in	Mitutoyo	**6NRA9**
0 in to 0.2 in	0.0001 in	2.25 in	0-5-0	0.01 in	Starrett	**4CER5**
0 in to 0.25 in	0.001 in	2.25 in	0-50-0	0.1 in	Starrett	**4CEP9**
0 in to 0.5 in	0.001 in	2.25 in	0-50-0	0.1 in	Starrett	**2ZUH7**
0 in to 1 in	0.001 in	2.25 in	0-50-0	0.1 in	Starrett	**4CER3**
	0.001 in	57 mm	0-50-0	0.1 in	Mitutoyo	**6NRC1**
0 in to 2 in	0.001 in	2.25 in	0-100	0.1 in	Starrett	**4CER1**
0 to 1 mm	0.001 mm	57 mm	0-100-0	0.2 mm	Mitutoyo	**6NRC3**
0 to 50 mm	0.01 mm	2.25 in	0-100	1 mm	Starrett	**5UAJ3**
Continuous Reading						
AGD 1						
0 in to 0.1 in	0.0005 in	1.58 in	0-50	0.05 in	Insize	**408R46**
	0.001 in	1.58 in	0-100	0.1 in	Insize	**408R45**
0 in to 0.125 in	0.001 in	1.69 in	0-50	0.05 in	Starrett	**6NAW9**
0 in to 0.2 in	0.0005 in	1.58 in	0-50	0.05 in	Insize	**408R48**
	0.001 in	1.58 in	0-100	0.1 in	Insize	**409L46**
	0.001 in	1.66 in	0-100	0.1 in	Insize	**409U02**
0 in to 0.25 in	0.0005 in	1.58 in	0-50	0.05 in	Insize	**408R50**
	0.001 in	1.58 in	0-100	0.1 in	Insize	**408R49**
	0.001 in	1.69 in	0-100	0.1 in	Starrett	**2ZUH5**
	0.001 in	40 mm	0-100	0.1 in	Mitutoyo	**1ARB1**
	0.001 in	40 mm	0-100	0.1 in	Mitutoyo	**6NRA4**
0 in to 1 in	0.0005 in	2.25 in	0-100	1 in	Tesa Brown & Sharpe	**45JK46**
	0.001 in	2.25 in	0-100	1 in	Tesa Brown & Sharpe	**45JK48**
AGD 2						
0 in to 0.025 in	0.0001 in	2.25 in	0-10	0.01 in	Starrett	**2ZUH6**
0 in to 0.05 in	0.0001 in	2.2 in	0-100	0.01 in	Insize	**408R61**
	0.0001 in	57 mm	0-10	0.01 in	Mitutoyo	**4CGP7**
0 in to 0.2 in	0.0001 in	2.25 in	0-10	0.01 in	Starrett	**4CER6**
0 in to 0.25 in	0.0005 in	2.36 in	0-50	0.05 in	Insize	**408R52**
	0.001 in	2.36 in	0-100	0.1 in	Insize	**408R51**
0 in to 0.5 in	0.0005 in	2.36 in	0-50	0.05 in	Insize	**408R54**
	0.001 in	2.25 in	0-100	0.1 in	Starrett	**2ZUH8**
	0.001 in	2.28 in	0-100	0.1 in	Insize	**409L47**
0 in to 1 in	0.0005 in	2.25 in	0-50	0.05 in	Starrett	**4CER7**
	0.0005 in	2.36 in	0-50	0.05 in	Insize	**408R56**
	0.0005 in	57 mm	0-50	0.05 in	Mitutoyo	**4CGP6**
	0.001 in	2.25 in	0-100	0.1 in	Starrett	**2ZUH9**
	0.001 in	2.28 in	0-100	0.1 in	Insize	**409L48**
	0.001 in	2.36 in	0-100	0.1 in	Insize	**408R55**
0 in to 2 in	0.0005 in	2.36 in	0-50	0.05 in	Insize	**408R58**
	0.001 in	2.36 in	0-100	0.1 in	Insize	**408R57**
	0.001 in	57 mm	0-100	1 in	Mitutoyo	**1ARD3**
0 in to 3 in	0.001 in	2.25 in	0-100	0.1 in	Starrett	**4CER2**
0 in to 4 in	0.001 in	2.25 in	0-100	0.1 in	Starrett	**4CER4**
0 to 10 mm	0.01 mm	2.25 in	0-100	1 mm	Starrett	**2ZUJ1**
	0.01 mm	57 mm	0-100	1 mm	Mitutoyo	**16X231**
0 to 25 mm	0.01 mm	2.25 in	0-100	1 mm	Starrett	**2ZUJ2**
0.1 in	0.001 in	1.69 in	0-100	0.1 in	Starrett	**6NAY6**
AGD 3						
0 in to 1.5 in	0.001 in	2.98 in	0-100	0.1 in	Insize	**408R59**
0 in to 2 in	0.001 in	2.98 in	0-100	0.1 in	Insize	**408R60**
AGD 4						
0 in to 3 in	0.001 in	3.27 in	0-100	0.1 in	Insize	**408R70**
	0.001 in	92 mm	0-100	0.1 in	Mitutoyo	**4CGR1**
0 in to 4 in	0.001 in	3.27 in	0-100	0.1 in	Insize	**408R71**
Reverse-Reading Continuous Reading						
AGD 2						
0 in to 1 in	0.001 in	2.36 in	0-100	0.1 in	Insize	**409U13**

Mitutoyo Starrett WESTWARD Mahr INSIZE

Digital Indicators

Digital drop indicators, also called electronic indicators, have a linear encoder with an LCD fixed to a plunger-style stem with a contact point on the end. When the contact point touches the workpiece or feature, the up-and-down movement will be translated to a numeric value on the digital display.

Back Lug 6NRA3

Non-Removable Flat Back 409P02

Removable Flat Back 54GE89

Range	Res.	Accuracy	IP Rating	SPC Output	Variable Resolution	Display Type	Brand	Item No.
Digital Indicators with Back Lug								
0 in to 0.5 in	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**4GPY1**
	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**6NRA3**
	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**41T254**
	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**36J702**
	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**36J699**
	0.001 mm, 0.00005 in, 0.0001 in, 0.01 mm, 0.0005 in	±0.00012 in	IP42	Yes	No	LCD With Analog Bar	Mitutoyo	**54GE84**
	0.001 mm, 0.0001 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**1ARJ7**
	0.01 mm, 0.0005 in	±0.0008 in	IP42	Yes	No	LCD	Mitutoyo	**1ARJ6**
	0.01 mm, 0.0005 in	±0.001 in	IP42	Yes	No	LCD	Mitutoyo	**4GPY2**
0 in to 1 in	0.001 mm, 0.00005 in	±0.0001 in; ±0.002 mm	IP54	Yes	Yes	LCD	Starrett	**53VE12**
	0.01 mm, 0.0005 in	0.001 in	—	No	No	—	Westward	**2YNK1**
	0.01 mm, 0.0005 in	±0.001 in	IP67	Yes	No	LCD	Starrett	**53VD81**
0 in to 2 in	0.002 mm, 0.0001 in	±0.0002 in; ±0.004 mm	IP54	Yes	Yes	LCD	Starrett	**53VE16**
0 in to 4 in	0.002 mm, 0.0001 in	±0.0002 in; ±0.004 mm	IP54	Yes	Yes	LCD	Starrett	**53VE20**
0.00002 in to 4 in	0.0002 mm, 0.00002 in, 0.001 mm, 0.00005 in, 0.002 mm, 0.0001 in, 0.005 mm, 0.01 mm, 0.0005 in	±0.002 mm	IP42	Yes	Yes	LCD	Mahr	**45PG20**
Digital Indicators with Non-Removable Flat Back								
0 in to 0.5 in	0.0002 mm, 0.00001 in	±0.00012 in	IP42	Yes	No	LCD With Analog Bar	Mitutoyo	**54GE87**
	0.001 mm, 0.00005 in	±0.00015 in	—	Yes	No	LCD With Analog Bar	Insize	**409P02**
0 in to 1 in	0.001 mm, 0.00005 in	±2 Res.	IP54	Yes	Yes	Color LCD	Starrett	**53VD66**
	0.001 mm, 0.00005 in, 0.0001 in, 0.01 mm, 0.0005 in, 0.001 in	±0.00012 in; ±0.003 mm	IP42	Yes	No	LCD	Mitutoyo	**36J686**
	0.002 mm, 0.0001 in	±2 Res.	IP54	Yes	Yes	Color LCD	Starrett	**53VD65**
	0.01 mm, 0.0005 in	±0.0008 in	IP42	Yes	No	LCD	Mitutoyo	**1ARU1**
0 in to 1.2 in	0.0005 mm, 0.00002 in, 0.001 mm, 0.00005 in, 0.0001 in, 0.0005 in	±0.0015 mm	IP42	Yes	No	LCD	Mitutoyo	**36J694**
0 in to 2.4 in	0.00002 in, 0.001 mm, 0.00005 in, 0.0001 in, 0.0005 in	±0.0025 mm	IP42	Yes	No	LCD	Mitutoyo	**41T256**
0 in to 4 in	0.01 mm, 0.0005 in	±2 Res.	IP54	Yes	Yes	Color LCD	Starrett	**53VD69**
Digital Indicators with Removable Flat Back								
0 in to 0.22 in	0.01 mm, 0.0005 in	±0.0008 in; ±0.020 mm	IP42	Yes	No	LCD	Mitutoyo	**54GE89**
0 in to 0.5 in	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**33RK38**
	0.001 mm, 0.00005 in	±0.0001 in	IP53	Yes	No	LCD	Mitutoyo	**41T258**
	0.001 mm, 0.00005 in, 0.0001 in, 0.01 mm, 0.0005 in	±0.00012 in	IP42	Yes	No	LCD With Analog Bar	Mitutoyo	**54GE85**
	0.001 mm, 0.0001 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**1ARJ8**
	0.01 mm, 0.0005 in	±0.001 in	IP42	Yes	No	LCD	Mitutoyo	**4GPY3**
0 in to 0.98 in	0.01 mm	±0.03 mm	IP42	Yes	No	LCD	Mitutoyo	**36J695**
0 in to 1 in	0.001 mm, 0.00005 in	±0.0001 in	IP42	Yes	No	LCD	Mitutoyo	**4GPY5**
0 in to 2 in	0.001 mm, 0.00005 in	±0.0002 in	IP42	Yes	No	LCD	Mitutoyo	**4GPY6**
0.00001 in to 0.039 in	0.001 mm, 0.005 mm, 0.0005 in	0.5% OF Standard Range	IP54	Yes	Yes	LCD	Mahr	**5RHJ4**
0.00001 in to 0.04 in	0.0002 mm, 0.00001 in, 0.00002 in, 0.001 mm, 0.00005 in, 0.002 mm, 0.0001 in, 0.005 mm, 0.01 mm, 0.0005 in, 0.02 in	±0.5% over ±0.040 in; ±0.25% over ±0.020 in	IP54	Yes	Yes	LCD	Mahr	**5RHJ0**
0.00002 in to 0.4 in	0.0002 mm, 0.00001 in, 0.00002 in, 0.001 mm, 0.00005 in, 0.002 mm, 0.0001 in, 0.005 mm, 0.01 mm, 0.0005 in, 0.02 in	±0.002 mm	IP54	Yes	Yes	LCD	Mahr	**508V81**

For more information on Precision Measuring Instruments, see page 2325.

Mitutoyo · TESA Technology · brown & sharpe · INSIZE · Starrett

Dial Test Indicators and Sets

Dial drop indicators, also called plunger-style dial indicators or dial indicators, have a dial face fixed to a stem with a contact point on the end. When the contact point touches the work-piece or feature, the up-and-down movement of the plunger is amplified on the graduated dial face. The graduations on a balanced-reading dial indicator increase in both directions from the reference point, while those on a continuous-reading dial indicator increase in one direction, typically clockwise. They are commonly used for setup and calibration applications on the shop floor and other applications for measuring and amplifying slight variations. . Back plunger dial indicators are used in appli-cations similar to those of a dial test indicator. Sets include both a dial drop indicator and a holder with a magnetic base.

Range	Accuracy	Graduations	Dial Reading	Dial Size	Dial Color	Series	Brand	Item No.
Horizontal								
0 in to 0.008 in	±0.00005 in	0.00005 in	0-4-0	1.5 in	Black	BESTEST-5	Tesa Brown & Sharpe	**5RCL2**
	±0.0001 in	0.0001 in	0-40-0	1.18 in	White	INSIZE 2380	Insize	**408R81**
	±0.0001 in	0.0001 in	0-40-0	1.46 in	White	INSIZE 2381	Insize	**408R84**
	±0.0001 in	0.0001 in	0-4-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	**5RCL1**
	±0.0001 in	0.0001 in	0-4-0	1 in	White	BESTEST	Tesa Brown & Sharpe	**5RCH1**
	±0.0001 in	0.0001 in	0-4-0	1.79 in	White	INSIZE 2834	Insize	**409L50**
	±0.0001 in	0.0001 in	0-4-0	40 mm	White	Mitutoyo 513 Standard	Mitutoyo	**5C705**
	±0.0001 in	0.001 in	0-100	1.5 in	White	BESTEST	Tesa Brown & Sharpe	**5RCH0**
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.5 in	Black	BESTEST-5	Tesa Brown & Sharpe	**5RCL4**
	±0.0005 in	0.0005 in	0-15-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	**5RCK9**
	±0.0005 in	0.0005 in	0-15-0	1.26 in	White	INSIZE 2835	Insize	**409L51**
	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Standard	Mitutoyo	**4CGR9**
	±0.001 in	0.001 in	0-15-0	1 in	Black	BESTEST-5	Tesa Brown & Sharpe	**5RCL5**
	±0.0005 in	0.001 in	0-15-0	1.46 in	White	INSIZE 2381	Insize	**408R86**
	±0.0005 in	0.03 in	0-15-0	1 in	White	Valueline	Tesa Brown & Sharpe	**49U620**
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.5 in	White	Mitutoyo 513	Mitutoyo	**4LA91**
0 mm to 0.2 mm	±0.004 mm	0.01 mm	0-100-0	40 mm	Yellow	Mitutoyo 513 Standard	Mitutoyo	**4CGR2**
0 mm to 0.8 mm	±0.013 mm	0.01 mm	0-40-0	37 mm	White	INSIZE 2381	Insize	**54XH64**
	±0.008 mm	0.01 mm	0-40-0	40 mm	Yellow	Mitutoyo 513 Standard	Mitutoyo	**16X244**
Horizontal, Tilted Face								
0 in to 0.01 in	±0.0001 in	0.0001 in	0-5-0	1.38 in	White; Yellow	Starrett 708	Starrett	**2ZUK1**
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.38 in	White; Yellow	Starrett 709	Starrett	**2ZUK2**
	±0.0005 in	0.0005 in	0-15-0	1.18 in	White	INSIZE 2380	Insize	**408R83**
	±0.001 in	0.001 in	0-15-0	1.18 in	White	INSIZE 2380	Insize	**408R82**
	±0.001 in	0.001 in	0-15-0	1.46 in	White	INSIZE 2381	Insize	**408R85**
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.38 in	White; Yellow	Starrett 709	Starrett	**2ZUK5**
Long-Stylus Horizontal								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2383	Insize	**409P35**
	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Long Stylus	Mitutoyo	**4CGR4**
Swivel Head								
0 in to 0.03 in	±0.001 in	0.0005 in	0-15-0	1.5 in	White; Yellow	Starrett 711	Starrett	**5UAV3**
	±0.001 in	0.001 in	0-15-0	1 in	White; Yellow	Starrett 711	Starrett	**2ZUJ6**
Swivel-Head, Tilted Face								
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2386	Insize	**408R88**
Swivel-Head, Vertical								
0 in to 0.06 in	±0.0008 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2480	Insize	**55VN03**
Tilted Face								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2399	Insize	**409L52**
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	40 mm	White	Mitutoyo 513 Tilted Face	Mitutoyo	**4CGR5**
0 to 0.060 in	—	0.001 in	0-15-0	1⅜ in	White; Yellow	709	Starrett	**6NAZ7**
0 to 0.2mm	—	0.002 mm	0-100-0	1⅜ in	Yellow	708M	Starrett	**6NAZ6**
Tilted Face Swivel, Tilted Face								
0 in to 0.016 in	±0.0001 in	0.0001 in	0-4-0	1.5 in	White	Interapid 312	Tesa Brown & Sharpe	**5RCK8**
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.5 in	White	Interapid 312	Tesa Brown & Sharpe	**5RCK7**
	±0.0005 in	0.0005 in	0-15-0	1.25 in	White	Interapid 312	Tesa Brown & Sharpe	**5RCL0**
Vertical								
0 in to 0.03 in	±0.0005 in	0.0005 in	0-15-0	1.46 in	White	INSIZE 2398	Insize	**408R90**
0 in to 0.06 in	±0.0005 in	0.0005 in	0-15-0	1.5 in	Black	Interapid 312	Tesa Brown & Sharpe	**5RCL3**

Range	Graduations	Dial Reading	Dial Size (in.)	Includes	Brand	Mfr. Model	Item No.
Dial Test Indicator Sets							
Back Plunger Indicator Style							
0 to 0.2 in	0.001 in	0-100	1.45	Clamp, Tool Post Holder	Starrett	196A1Z	**2ZUJ4**
Horizontal Test Indicator Style							
0 in to 0.008 in	0.0001 in	0-4-0	1.57	5⁄32 and ⅜" Stems, Stem Nut, Swivel Clamp, Square Arm, Plastic Case	Mitutoyo	513-403-10T	**1ZRT1**
0 in to 0.01 in	0.0001 in	0-5-0	1.30	Holding Rod, Inch Holding Bar, Stem, Swivel Clamp	Mitutoyo	513-504-10T	**4CGT2**
	0.0001 in	0-5-0	1.37	Dovetail Body Clamp, Snug and Rod Unit, Swivel Post Snug w/Dovetail Indicator Clamp, Tool Post Holder	Starrett	708ACZ	**2ZUK3**
0 in to 0.03 in	0.0005 in	0-15-0		Dovetail Body Clamp, Snug and Rod Unit, Swivel Post Snug w/Dovetail Indicator Clamp, Tool Post Holder	Starrett	709ACZ	**2ZUK4**
	0.0005 in	0-15-0	1.57	⅜ in Stem, 5⁄32 in Swivel Clamp, Square Arm, Stem Nut	Mitutoyo	513-402-10T	**4LA92**
	0.0005 in	0-15-0	1.57	5⁄32 in Stem; ⅜ in Stem, Long Point, Square Arm, Stem Nut, Swivel Clamp	Mitutoyo	513-412-10T	**1ZRT2**
0 in to 0.04 in	0.001 in	0-20-0	1.30	Holding Rod, Inch Holding Bar, Stem, Swivel Clamp	Mitutoyo	513-518T	**4CGT4**
0 mm to 0.2 mm	0.002 mm	0-100-0	40mm	1mm Carbide Point, 2mm Carbide Point, 3mm Carbide Point, 4mm Stem, 8 mm Stem, Clamp Ring, Holding Bar, Swivel Clamp, Test Indicator	Mitutoyo	513-405-10T	**16X246**
0 mm to 0.7 mm, 0 in to 0.7 in	0.0005 in, 0.01 mm	0-15-0; 0-35-0	1.570	(2) Stems, (3) Carbide Points, Holding Bar, Swivel Clamp	Mitutoyo	513-406-10T	**4CGR3**
Swivel Head Test Indicator Style							
0 in to 0.03 in	0.0005 in	0-15-0	1.00	—	Starrett	711LCSZ	**2ZUJ8**
	0.001 in	0-15-0	1.00	—	Starrett	711GCSZ	**2ZUJ7**
Dial Test Indicator & Mag Bases							
0 in to 0.03 in	0.0005 in	0-15-0		—	Insize	5023-E	**463J50**

For more information on Precision Measuring Instruments, see page 2325.

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Magnetic Base and Dial Indicator Sets

Arm Type	Range	Graduations	Dial Reading	Included Indicator and Base	Range per Revolution	Includes	Brand	Mfr. Model	Item No.
Flexible	0 in to 1 in	0.001 in	0-100	52-520-110-0 (52-585-045-0)	0.1 in	Universal Clamp	Westward	—	**2YNK2**
Post	0 in to 1 in	0.001 in	0-100	2307-1, 6201-60	—	—	Insize	5002-4E	**55VN81**
Post and Arm	0 in to 0.05 in	0.0001 in	0-10	52-520-135-0 (52-585-010-0)	0.01 in	—	Westward	—	**2YND9**
	0 in to 0.125 in	0.0005 in	0-25-0	25-131J (657D)	0.050 in	—	Starrett	657EZ	**2ZUL5**
	0 in to 1 in	0.001 in	0-100	52-520-110-0 (52-585-015-0)	0.1 in	—	Westward	—	**2YNE1**
	0 in to 1 in; 0 mm to 25.4 mm	0.001 in	0-100	2416S, 7010S	0.100 in	—	Mitutoyo	64PKA075B	**4LB18**
	0.05 in	.0001 in	0-10	2804S-10, 7010S	0.010 in	—	Mitutoyo	64PKA078A	**5C708**
	0.05 in	0.001 in	0-10	2416S, 7010S	0.100 in	—	Mitutoyo	64PKA079A	**5C709**

2YNK2

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Magnetic Bases, Stands and Holders

Holding Power	Maximum Reach	Fine Adjustment Position	Compatible Indicator Mounts	Base Size	Brand	Item No.
Magnetic-Base Indicator Holder						
Articulating Arm Type						
70 lbf	7.5 in	Fine Adjust Base (FAB)	⅜ in	1.375 in L x 1.375 in W x 1.1875 in H	Starrett	**2ZUL7**
	178 mm	Fine Adjust Top (FAT); Fine Adjust Bottom (FAB)	6 mm	40 mm L x 30 mm W x 35 mm H	Noga	**436L77**
88 lbf	7.559 in	Fine Adjust Top (FAT)	⅜ in	1.417 in L x 1.181 in W x 1 ⅖ in H	Insize	**409L68**
100 lbf	12 in	—	⅜ in	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**26Z777**
176 lbf	10.039 in	Fine Adjust Top (FAT)	⅜ in	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409L66**
	13.386 in	Fine Adjust Top (FAT)	⅜ in, Dovetail Mount	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C61**
	13.976 in	Fine Adjust Top (FAT)	⅜ in, 4 mm, 8 mm, Dovetail Mount	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C60**
220 lbf	19.213 in	Fine Adjust Top (FAT)	⅜ in	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409L67**
320 N	128.5 mm	Fine Adjust Base (FAB)	⅜ in	40 mm L x 30 mm W x 35 mm H	Noga	**436L79**
800 N	267.5 mm	Fine Adjust Base (FAB)	⅜ in	2 23/64 in L x 1 31/32 in W x 2 5/32 in H	Noga	**436L75**
	282 mm	Fine Adjust Top (FAT)	6 mm	2 23/64 in L x 1 31/32 in W x 2 5/32 in H	Noga	**436L73**
	282 mm	Fine Adjust Top (FAT); Fine Adjust Bottom (FAB)	6 mm	60 mm L x 50 mm W x 55 mm H	Noga	**436L76**
	347.5 mm	Fine Adjust Top (FAT)	6 mm	60 mm L x 50 mm W x 55 mm H	Noga	**56HG36**
1,300 N	580 mm	Fine Adjust Top (FAT)	6 mm	120 mm L x 50 mm W x 55 mm H	Noga	**436L78**
Flexible Arm Type						
85 lbf	15 in	—	⅜ in	2 ½ in L x 2 in W x 2 ⅛ in H	Westward	**4KY11**
100 lbf	15 in	—	⅜ in	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**2ZUL6**
	15 in	Fine Adjust Base (FAB)	⅜ in	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**26Z931**
176 lbf	12.992 in	—	⅜ in	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C59**
600 N	396 mm	Fine Adjust Top (FAT)	6 mm	58 mm L x 50 mm W x 55 mm H	Mitutoyo	**6NRC6**
Rigid Arm Type						
85 lbf	15 in	—	⅜ in	2 ½ in L x 2 in W x 2 ⅛ in H	Westward	**2YND8**
	15 in	Fine Adjust Top (FAT)	⅜ in	2 ½ in L x 2 in W x 2 ⅛ in H	Westward	**4KU72**
100 lbf	6 in	Fine Adjust Base (FAB)	¼ in	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**26Z932**
	15 in	—	Lug-on-Back	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**2ZUL4**
132 lbf	12.835 in	—	⅜ in	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C56**
	12.993 in	Fine Adjust Top (FAT)	⅜ in	2.244 in L x 2 ¼ in W x 1 ½ in H	Insize	**409C63**
	13.425 in	—	⅜ in, 4 mm, 8 mm	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C55**
150 lbf	15 in	Fine Adjust Top (FAT)	Lug-on-Back	3 in L x 2.375 in W x 2.375 in H	Starrett	**26Z933**
	15 in	Fine Adjust Top (FAT)	Lug-on-Back	3 in L x 2.375 in W x 2.375 in H	Starrett	**2ZUL9**
176 lbf	16.732 in	Fine Adjust Top (FAT)	⅜ in	2.362 in L x 1.969 in W x 2 ⅕ in H	Insize	**409C58**
600 N	232 mm	Fine Adjust Top (FAT)	⅜ in, 6 mm, 8 mm	55 mm L x 50 mm W x 60 mm H	Mitutoyo	**4LB12**
	232 mm	Fine Adjust Top (FAT)	6 mm	58 mm L x 50 mm W x 55 mm H	Mitutoyo	**5C751**
Mini Magnetic-Base Indicator Holder						
Articulating Arm Type						
200 lbf	87.5 mm	—	⅜ in	30 mm W x 25 mm H	Noga	**56HG40**
Mini Post and Snug Arm Type						
22 lbf	2.953 in	—	¼ in, ⅜ in, Dovetail Mount	1 3/16 in W x 1 in H	Insize	**409L69**
25 lbf	4.875 in	Fine Adjust Base (FAB)	Dovetail Mount	4 ⅞ in L x 1 ½ in W x 1 in H	Westward	**6XU95**
30 lbf	4.17 in	—	⅜ in, 8 mm, Dovetail Mount	1.18 in L x 1.18 in W x 1 in H	Starrett	**5UAL7**

Maximum Reach	Fine Adjustment Position	Compatible Indicator Mounts	Centering Arm Shank Size	Brand	Item No.
Indicator Holder Arms without Bases					
Articulating Arm Type					
178 mm	Fine Adjust Top (FAT)	6 mm	—	Noga	**56LA99**
282 mm	Fine Adjust Top (FAT)	6 mm	—	Noga	**56LC01**
317 mm	Fine Adjust Top (FAT)	6 mm	—	Noga	**56LC02**
Spindle-Mounted Centering Arms for Indicators					
Articulating Arm Type					
7.244 in	—	⅜ in	⅜ in (Dia)	Insize	**409C78**
14.96 in	Fine Adjust Top (FAT)	⅜ in	⅜ in (Dia)	Insize	**409C77**
178 mm	Fine Adjust Top (FAT)	6 mm	8 mm (Dia) x 40 mm	Noga	**436L80**
Rigid Arm Type					
60 mm	—	4 mm	¼ in (Dia)	Insize	**55VP62**

Holding Power	Compatible Indicator Mounts	Base Size	Brand	Item No.
Magnetic Bases without Arms				
100 lbf	¼ in	1 ⅞ in L x 1.625 in W x 1 15/16 in H	Starrett	**6NAZ4**
150 lbf	¼ in	3 in L x 2.375 in W x 2.375 in H	Starrett	**6NAW6**

Magnetic-Base Indicator Holder 2ZUL7

Spindle-Mounted Centering Arms for Indicators 409C78

Magnetic Base Only 6NAZ4

For more information on Precision Measuring Instruments, see page 2325.

2ZUN7

55VN82

1ARY4

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Precision Measuring Tool Kits

- 0 to 6/0 to 150 Caliper Range (in./mm)
- Outside micrometers

No. of Pieces	Micrometer Range	Includes	Caliper SPC Output	Brand	Item No.
2	0 in to 1 in	(1) Digital Micrometer; (1) Digital Caliper; (1) Case	No	Starrett	**2ZUN6**
	0 in to 1 in	(1) Micrometer; (1) Digital Caliper; (1) Flexible Rule; (1) Case	—	Westward	**4KU85**
	0 in to 1 in; 0 mm to 25 mm	(1) Digital Caliper; (1) Digital Outside Micrometer	Yes	Insize	**463D47**
	0 in to 6 in; 0 mm to 150 mm	(1) Digital Caliper; (1) Digital Depth Micrometer; (1) Case	—	Westward	**2YNK4**
3	0 in to 1 in	(1) Dial Caliper; (1) Outside Micrometer; (1) Steel Rule	No	Insize	**55VN79**
	0 in to 1 in	(1) Digital Caliper; (1) Outside Micrometer; (1) Steel Rule	Yes	Insize	**55VN80**
	0 in to 1 in	(1) Micrometer; (1) Dial Caliper; (1) Precision Rule; (1) Case	No	Starrett	**2ZUN7**
	0 in to 1 in; 0 mm to 25 mm	(1) Digimatic Micrometer; (1)Digimatic; (1) Case	No	Mitutoyo	**1ZRV5**
	0 in to 1 in; 0 mm to 25 mm	(1) Digital Caliper; (1) Outside Micrometer; (1) Digital Indicator (2) Stands	Yes	Insize	**55VN82**
	0 in to 1 in; 0 mm to 25 mm	(1) Micrometer; (1) Digimatic Caliper; (1) Case	No	Mitutoyo	**1ARY4**
	0 mm to 25 mm	(1) Outside Micrometer; (1) Dial Caliper; (1) Flexible Rule; (1) Case	No	Starrett	**5UAN2**
4	0 in to 1 in	(1) Digital Caliper; (1) Outside Micrometer; (1) Edge Square; (1) Steel Rule	Yes	Insize	**463J51**
5	0 in to 1 in	(1) Digital Caliper; (1) Outside Micrometer; (1) Dial Indicator; (2) Stands	Yes	Insize	**463J52**
	0 in to 1 in	(1) Outside Micrometer; (1) Depth Micrometer; (1) Flexible Rule; (1) Dial Caliper; (1) Case	No	Mitutoyo	**4LB17**

Processor
55VN95

Processor
4CGX4

Wireless Data Transfer
409W89

SPC Cable
1ZRN8

Transfer Component
45PG13

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SPC Components for Precision-Measuring Tools

SPC processors are portable mini printers that print a hard copy of an instrument's measurement data. Foot switches allow hands-free transmission of measurements. **Wireless SPC data transfer components** are used to record and transmit data to a computer without cords or cables. **Wireless transmitters** are small units that plug into precision measuring tools with SPC output capability.

Item	Output End Connection Type	Instrument Connection Type	For Use With	Item No.
Processors, Foot Switches & Software				
Insize				
4-Port Hub Converter	USB	USB	Data Cables	**55VN95**
Insize 7304				
Foot Switch	USB	—	Data Output Cable	**409F44**
Mitutoyo 264				
SPC Mini Processor	RS-232C, USB	Digimatic RS-232C	Mitutoyo Digimatic Output Tools	**4CGX4**
Starrett 7612				
Foot Switch		—	Gauges	**26Z295**
Mahr Marcom				
Marcom Professional 5.0 Software		—	Mfr. No. MarCal 16EWRi, MarCal 30EWRi, MarCal 1086 Ri, MarCal 1087 Ri, MarCal 1087 B Ri	**45PG49**

Item	Transmission Protocol	Compatible Receiver Model Number	Communication Range	No. of Channels	Output End Connection Type	For Use With	Item No.
Wireless Data Transfer Components							
Insize 7306							
USB Receiver for Wireless Data Transfer	Bluetooth	30 Channel	66 ft	30	USB	Electronic Calipers, Indicators, Micrometers, USB to Computer	**409W89**
Wireless Data Transmitter		—	—	—		Electronic Calipers, Indicators, Micrometers, Runs From Micrometer	**409W91**
		—	—	—		Electronic Calipers, Indicators, Micrometers, Runs From Indicator	**409W92**
		—	—	—		Electronic Calipers, Indicators, Micrometers, Runs From Caliper	**409W90**
Insize 7315							
USB Receiver for Wireless Data Transfer	Bluetooth	8 Channel	33 ft	8	USB	7315-20, 7315-30, 7315-40M, 7315-60	**55VN90**
Wireless Data Transmitter			33 ft	—	—	1156 Series Electronic Height Gauge, Electronic Caliper, Electronic Depth Gauge	**55VN91**
Mahr MarConnect							
USB Receiver for Wireless Data Transfer	ANT+	Eight Channel	6 m	3	USB	MarCal 1086 Ri, MarCal 1087 B Ri, MarCal 1087 Ri, MarCal 30EWRi, Mfr. No. MarCal 16EWRi	**45PG13**
Mitutoyo U-Wave							
U-Wave Connecting Cable A	Zigbee 2.4 GHz Band		60 ft	2	—	02AZD730G	**5RCF0**
U-Wave Connecting Cable B			60 ft	2	—	02AZD730G	**5RCF1**
U-Wave Connecting Cable C			60 ft	2	—	02AZD730G	**5RCF2**
U-Wave Transmitter			20 m	—	—	IP67 Calipers, IP65 Calipers	**54ZU08**

Item	Instrument Connection Type	Output End Connection Type	Cable Length	For Use With	Item No.
SPC Cables & Adapters					
Insize					
Data Output Cable	Micro USB	USB	2.5 m	Electronic Calipers (Range<40"), Electronic Height Gages	**788W72**
	Micro USB	USB	100 in	Depth Gauges, Digital Calipers, Height Gauges	**409T01**
	Mini USB	USB	100 in	Digital Indicators, Digital Protractor	**409F42**
	Mini USB	USB	100 in	Indicator, Protractor	**409F45**
Mitutoyo					
Data Output Cable	Data Out Switch	—	40 in	Digimatic Micrometer	**1ARA8**
	Data Out Switch	—	40 in	Depth Gauges, Digimatic Calipers With Absolute Encoder, Height Gauges, Scale Unit	**1ARA2**
	Straight	—	40 in	Calipers, Depth Gauges, Height Gauges, Indicators, Scale Unit, Thickness Gauges	**1ZRN7**
	Straight	—	80 in	Calipers, Depth Gauges, Height Gauges, Indicators, Scale Unit, Thickness Gauges	**1ZRN8** *
Starrett					
Data Output Cable	—	—	6 ft	Computer Adaptor, Data Collectors and Multiplexers	**2ZUN8**
	—	—	60 ft	Digital Indicators	**2ZUP3**

**IP65 Rated*

For more information on Precision Measuring Instruments, see page 2325.

Digital Height Gauges

- Includes display
- 2D Digital Height Gauges include SCS Certificate of calibration
- SPC Output except where noted

1D digital height gauges are used measure height and scribe lines for layout applications.

2D digital height gauges have a scriber that moves along the X axis so the operator can perform measurements in 2 dimensions. They measure height and inspect round parts and bores, with the probe moving in a circular path. They are also used to scribe lines in layout applications.

1D with Motorized Travel 446F34

Range	Res.	Accuracy	Data Output Type	Includes Fine Adjustment	Beam Style	Brand	Item No.
1D Digital Height Gauges with Manual Travel							
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm	±0.0015 in	—	No	Single-Pole	Westward	**2YND4**
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm	±0.012 in	Cable, Wireless with Transmitter	—	Single-Pole	Insize	**463D71**
0 in to 12 in/0 to 300 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.001 in	—	Yes	Double-Pole	Mitutoyo	**33RK45**
0 in to 18 in/0 to 450 mm	0.0005 in/0.01 mm	±0.002 in	—	No	Single-Pole	Westward	**2YND5**
0 in to 18 in/0 to 450 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.002 in	—	Yes	Double-Pole	Mitutoyo	**33RK46**
0 in to 24 in/0 to 600 mm	0.0005 in/0.01 mm	±0.002 in	Cable, Wireless with Transmitter	—	Single-Pole	Insize	**463D72**
0 in to 24 in/0 to 600 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.002 in	—	Yes	Double-Pole	Mitutoyo	**54GF34**
0 in to 40 in/0 to 1,000 mm	0.0005 in/0.01 mm	±0.0031 in	Cable	—	Single-Pole	Insize	**463J19**
0 in to 40 in/0 to 1,000 mm	0.0005 in/0.01 mm, 0.0002 in/0.005 mm	±0.025 in	—	Yes	Double-Pole	Mitutoyo	**33RK47**
1D Digital Height Gauges with Motorized Travel							
0 in to 14 in/0 to 350 mm	0.00005 in/0.001 mm, 0.0001 in/0.01 mm	±(2.8+L/300) micron	—	Yes	Single-Pole	Mahr	**446F34**
0 in to 24 in/0 to 600 mm	0.00005 in/0.001 mm, 0.0001 in/0.01 mm	±(2.8+L/300) micron	—	Yes	Single-Pole	Mahr	**446F35**
2D Digital Height Gauges with Manual Travel							
0 to 350 mm/170 to 520 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	**54VL05**
0 to 600 mm/170 to 770 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	**54VL06**
0 to 900 mm/175 to 1075 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	Yes	Single-Pole	Tesa Brown & Sharpe	**54VL07**
0 to 900 mm/175 to 1075 mm	0.00001 in/0.0001 mm, 0.0001 in/0.001 mm, 0.001 in/0.01 mm	±(2+2 x L/1000) micron	Cable, Wireless	No	Single-Pole	Tesa Brown & Sharpe	**462H45**

Bore Gauges

Dial Bore Gauges are mounted to the gauge handle. The user rocks the gauge in the bore or hole to find the minimum reading on the dial. **Digital bore gauges** have a integrated LCD or removable and exchangeable digital indicator that provides quick, easy reading of inside-diameter measurements of holes and openings.

Range	Accuracy	Dial Graduation	Requires Indicator	Contact Point Material	Brand	Item No.
Dial Bore Gauges						
0 in to 0.05 in	±0.0001 in	0.0001 in	Yes	Carbide Tipped	Mitutoyo	**785TH3**
Anvil Contact Style						
0.4 in to 0.7 in	±0.00075 in	0.0005 in	Yes	Steel	Insize	**463F37**
0.7 in to 1.5 in	±0.00075 in	0.0005 in	Yes	Steel	Insize	**463F39**
0.7 in to 1.5 in	±0.002 in	0.0005 in	—	Carbide	Starrett	**5UAR3**
1.4 in to 2.4 in	±0.0009 in	0.0005 in	Yes	Ceramic	Insize	**463F41**
1.4 in to 2.5 in	±0.00008 in	0.0001 in	Yes	Carbide	Mitutoyo	**6ANT9**
2 in to 6 in	±0.0009 in	0.0005 in	Yes	Ceramic	Insize	**463F42**
2 in to 6 in	±0.002 in	0.0005 in	—	Carbide	Starrett	**5UAR2**
6 in to 10 in	±0.0009 in	0.0005 in	Yes	Ceramic	Insize	**463F38**
6.5 in to 10 in	±0.00008 in	0.0001 in	Yes	Carbide	Mitutoyo	**6ANU1**
10 in to 16 in	±0.0009 in	0.0005 in	Yes	Ceramic	Insize	**463F40**
Split Ball Contact Style						
0.56 in to 1.565 in	±0.0002 in	0.0001 in	Yes	—	Starrett	**26Y763**
Three-Point Contact Style						
1.5 in to 3 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	**26Y775**
3 in to 5.1875 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	**26Y776**
5 in to 8 in	±0.0002 in	0.0001 in	Yes	Steel	Starrett	**26Y777**

Dial Bore 26Y775

Range	Accuracy	Dial Graduation	Requires Indicator	Contact Point Material	Brand	Item No.
Digital Bore Gauges						
Anvil Contact Style						
0.24 in to 0.4 in	+/-0.00075 in	—	No	Steel	Insize	**463D81**
0.4 in to 0.7 in	+/-0.00075 in	—	No	Steel	Insize	**463D82**
0.7 in to 1.5 in	+/-0.00075 in	—	No	Steel	Insize	**463D84**
1.4 in to 2.4 in	+/-0.0009 in	—	No	Steel	Insize	**463D86**
2 in to 6 in	+/-0.0009 in	—	No	Steel	Insize	**463D87**
6 in to 10 in	+/-0.0009 in	—	No	Steel	Insize	**463D83**
10 in to 16 in	+/-0.0009 in	—	No	Steel	Insize	**463D85**

Telescoping Gauge Sets

Inserted into openings and controlled by a knurled knob or small handle that expands the telescoping arm until the spring-loaded plungers make contact with the sides of the bore. Polished-steel gauge is locked into place and removed. It is then measured with an outside micrometer to determine a bore's hole diameter.

No. of Pieces	Range	Overall Length	Gauge Plunger Style	Replaceable Handle	Maximum Measuring Depth	Brand	Item No.
4	.315 in to 2.126 in	4 21⁄64 in to 5 29⁄32 in	—	—	5 in	Mitutoyo	**5C718**
4	5⁄16 in to 2 ⅛ in	2 ½ in	Double-Arm Plunger	Yes	2.375 in	Starrett	**2ZVC3**
5	½ in to 6 in	2 ¾ in	Single-Arm Plunger	Yes	2.625 in	Starrett	**2ZVA9**
5	½ in to 5 9⁄10 in	4 21⁄64 in to 6 in	—	—	—	Mitutoyo	**1ARB2**
6	0.313 in to 5 in	(3) 4 ⅜ in, (3) 5 ⅞ in	Double Plunger	No	—	Westward	**4KU95**
6	5⁄16 in to 2 ⅛ in	—	Double-Arm Plunger	Yes	2.375 in	Starrett	**5UAV1**
6	5⁄16 in to 6 in	4 21⁄64 in to 6 in	—	—	6 in	Mitutoyo	**5C717**
6	5⁄16 in to 6 in	5 25⁄64 in	—	Yes	6 in	Insize	**54XJ15**

2ZVC3

Taper Gauges & Sets

No. of Leaves	Range	Graduations	Overall Length	Material	Brand	Item No.
Flat Leaf						
1	1⁄32 in to ⅝ in	1⁄64 in	5 ¾ in	Stainless Steel	Insize	**54XJ11**
4	1⁄16 in to 5⁄16 in, 21⁄64 in to 9⁄16 in, 37⁄64 in to 13⁄16 in, 53⁄64 in to 1 1⁄16 in	1⁄64 in	5 33⁄64 in	Stainless Steel	Insize	**55VN64**
8	0.100 in to 0.500 in	0.001 in	2 ½ in	Tempered Steel	Starrett	**2ZVC1**
10	½ in to 1 in	0.001 in	2 ¾ in	Tempered Steel	Starrett	**30C249**
Rounded Body						
1	0.6 in to 1.2 in	0.005 in	6 ½ in	Carbon Steel	Insize	**55VN65**
1	1.2 in to 1.8 in	0.005 in	6 ½ in	Carbon Steel	Insize	**55VN66**

30C249

For more information on Precision Measuring Instruments, see page 2325.

Feeler Gauges and Sets

Long Blade
3R019

Set
463T14

- Individual feeler gauges have a ½" blade width

Steel feeler gauge sets measure gap widths by inserting the gauge into a gap. They can also be used as high-precision, durable shims. They are commonly used by engineers, machinists, and in light and heavy production, automotive, and woodworking applications.

Thickness	Blade Length	Tolerance	Markings	Brand	Item No.	Pkg. Qty.
Long Blade						
Stainless Steel Blade Material						
0.0010 in	12 in	+/-10%	Inch	Precision Brand	**42DJ93**	12
Steel Blade Material						
0.0010 in	12 in	—	Inch	Starrett	**5UAC8**	1
0.0010 in	12 in	+/-0.00012 in	Inch	Precision Brand	**5XB92**	12
0.0020 in	12 in	—	Inch	Proto	**3R019**	1
0.0020 in	12 in	+/-0.00016 in	Inch	Precision Brand	**5XE12**	12
0.0030 in	12 in	+/-0.00020 in	Inch	Precision Brand	**5XE16**	12
0.0040 in	12 in	—	Inch	Proto	**3R023**	1
0.0040 in	12 in	+/-0.00020 in	Inch	Precision Brand	**5XE18**	12
0.0050 in	12 in	—	Inch	Proto	**3R025**	1
0.0050 in	12 in	+/-0.00024 in	Inch	Precision Brand	**5XE20**	12
0.010 in	12 in	+/-0.00035 in	Inch	Precision Brand	**5XE30**	12
0.0200 in	12 in	+/-0.00055 in	Inch	Precision Brand	**5XE50**	12
0.03 mm	300 mm	+/-0.00016 in	Metric	Starrett	**26Z278**	1
0.08 mm	300 mm	—	Metric	Starrett	**26Z282**	1
Straight						
Steel Blade Material						
0.001 in	—	+/-0.00012 in	Inch with Metric Equivalent	Precision Brand	**5XB93**	1
0.0015 in	—	+/-0.00012 in	Inch with Metric Equivalent	Precision Brand	**5XE11**	1
0.002 in	—	+/-0.00016 in	Inch with Metric Equivalent	Precision Brand	**5XE13**	1
0.003 in	—	+/-0.00020 in	Inch with Metric Equivalent	Precision Brand	**5XE17**	1
0.005 in	—	+/-0.00024 in	Inch with Metric Equivalent	Precision Brand	**5XE21**	1
0.006 in	—	+/-0.00024 in	Inch with Metric Equivalent	Precision Brand	**5XE23**	1
0.01 in	—	+/-0.00035 in	Inch with Metric Equivalent	Precision Brand	**5XE31**	1

Number of Feeler Blades	Thickness Range	Blade Length	Blade Material	Blade Width	Tolerance	Markings	Brand	Item No.
Bent Feeler Gauge Set								
Bent Blade Style								
11	0.006 in to 0.02 in	4 3⁄16 in	Steel	½ in	—	Inch with Metric Equivalent	Proto	**3R011**
16	0.009 in to 0.027 in	3 in	Steel	½ in	—	Inch with Metric Equivalent	Proto	**5C588**
Feeler Gauge Set								
Short Blade Style								
9	0.0015 in to 0.015 in	3 1⁄32 in	Steel	½ in	—	Inch	Starrett	**5UAU3**
13	0.0015 in to 0.2 in	4 ½ in	Steel	½ in	—	Inch	Starrett	**2ZVE1**
13	0.04 mm to 5.00 mm	114 mm	Steel	½ in	+/-0.004 mm	Metric	Starrett	**30C281**
13	0.05 mm to 1 mm	100 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	**16X228**
15	0.06 mm to 0.70 mm	3 in	Steel	½ in	—	Metric	Proto	**3R014**
20	0.05 mm to 1 mm	77 mm	Steel	½ in	—	Metric	Starrett	**5UAC5**
25	0.0015 in to 0.035 in	3 in	Steel	½ in	—	Inch with Metric Equivalent	Precision Brand	**42DJ75**
25	0.0015 in to 0.04 in	3 in	Steel	½ in	—	Inch with Metric Equivalent	Proto	**3R002**
25	0.04 mm to 1.00 mm	3 5⁄16 in	Steel	½ in	—	Metric	Proto	**3R015**
26	0.0015 in to 0.025 in	3 1⁄32 in	Steel	¼ in to ½ in	—	Inch	Starrett	**2ZVC7**
28	0.0015 in to 0.035 in	3 1⁄32 in	Steel	½ in	—	Inch	Starrett	**2ZVE4**
28	0.05 mm to 1 mm	150 mm	Steel	13 mm	+/-0.004 mm	Metric	Mitutoyo	**16X227**
31	0.0015 in to 0.035 in	3 1⁄32 in	Steel	¼ in to ½ in	—	Inch	Starrett	**4CEN4**
32	0.0015 in to 0.035 in	2 61⁄64 in	Steel with Brass	3⁄64 in	0015 in to .035 in	Inch with Metric Equivalent	Insize	**463T14**
36	0.002 in to 0.035 in	3 in	Steel with Brass	½ in	-0.003 mm + 0.005 mm	Blades Etched with SAE and Metric Size	Westward	**44ZE49**
Straight Blade Style								
20	0.001 in to 0.025 in	5 in	Steel	½ in	—	Inch with Metric Equivalent	Precision Brand	**5XE66**
20	0.001 in to 0.03 in	12 in	Steel	½ in	—	Inch with Metric Equivalent	Precision Brand	**5XE75**
20	0.001 in to 0.031 in	5 in	Stainless Steel	½ in	—	Inch with Metric Equivalent	Precision Brand	**5XU51**

Digital Thickness Gauges

- Cable data output
- For SPC processors and accessories see page 2336

4CGW5

These high-resolution digital thickness gauges are used to measure the thickness of materials like sheet metal or paper. They have decimal inch and metric readings and are commonly used in machining, engineering, and metal fabrication applications.

Range	Res.	Throat Depth	Accuracy	Contact Material	Anvil Shape	Anvil Diameter	Brand	Item No.
SPC Output Yes								
0 in to ½ in, 0 mm to 12 mm	0.0005 in, 0.01 mm	20 mm	+/-0.001 in	Steel	Point	0.256 in	Mitutoyo	**33RK40**
	0.00005 in/0.001 mm	30 mm	+/-0.00015 in	Ceramic	Flat	0.25 in	Mitutoyo	**4CGW3**
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	**4CGW4**
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.4 in	Mitutoyo	**4CGW5**
	0.0001 in, 0.001 mm	30 mm	+/-0.0002 in	Ceramic	Flat	—	Mitutoyo	**39X538**
0 in to 1 in, 0 mm to 25 mm	0.00002 in/0.01 mm, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in, 0.0005 mm, 0.001 mm, 0.002 mm, 0.005 mm	25 mm, 1 in	+/-0.002 in	Hardened Stainless Steel	Round	0.157 in	Mahr	**45PG02**
Long Form Calibration Certificate: Yes								
0 in to ½ in, 0 mm to 12 mm	0.0005 in, 0.01 mm	4.7 in	+/-0.001 in	Ceramic	Flat	0.394 in	Mitutoyo	**5RCG7**
	0.0005 in, 0.01 mm	30 mm	+/-0.001 in	Ceramic	Flat	0.248 in	Mitutoyo	**36J718**
SPC Output No								
0 in to ½ in, 0 mm to 12.7 mm	0.0005 in, 0.01 mm	0.75 in	+/-0.001 in/0.02 mm	—	Flat	0.195 in	Starrett	**3CRE8**

Pin Gauges

Class X Go (Plus)

- Class X have 0.0001 in. diameter increment, Class ZZ 0.0005 in.
- Class X have a 0.00004 in. tolerance, Class ZZ 0.0005 in.
- Class X diameter ranges from 0.0040 to 1.0000 in. available on Grainger.com
- Class ZZ diameter ranges from 0.0110 to 1.0005 in. available on Grainger.com

Class X No-Go (Minus) pin gauges are unthreaded smooth rods of tool steel used to perform No-Go (Minus) tolerance tests on bores and holes. If the No-Go gauge does not fit into the hole or bore, then the hole is within the acceptable tolerance for the maximum acceptable size. They are also used to calibrate measuring equipment. These gauges are 2" long and come with a short-form certificate of accuracy stating they are traceable to NIST. **Class ZZ** gauges are for general purpose use and come unfinished or with black oxide coating to indicate signs of wear. They are also used to calibrate measuring equipment and come with a short-form certificate of accuracy that confirms they are within specs traceable to NIST.

▶CHOOSE: Dia.	▶CHOOSE: Finish	Item No.
X Go (Plus)		
0.0040 in to 0.0250 in	Uncoated	**J5717**
0.0251 in to 0.0750 in	Uncoated	**J5719**
0.0751 in to 0.2810 in	Uncoated	**J5720**
0.2811 in to 0.4060 in	Uncoated	**J5721**
0.4061 in to 0.5100 in	Uncoated	**J5722**
0.5101 in to 0.6350 in	Uncoated	**J5723**
0.6351 in to 0.7600 in	Uncoated	**J5724**
0.7601 in to 1.0000 in	Uncoated	**J5725**

▶CHOOSE: Dia.	▶CHOOSE: Finish	Item No.
X No-Go (Minus)		
0.0040 in to 0.0250 in	Uncoated	**K7018**
0.0251 in to 0.0750 in	Uncoated	**K7022**
0.0751 in to 0.2810 in	Uncoated	**K7032**
0.2811 in to 0.4060 in	Uncoated	**K7074**
0.4061 in to 0.5100 in	Uncoated	**K7100**
0.5101 in to 0.6350 in	Uncoated	**K7121**
0.6351 in to 0.7600 in	Uncoated	**K7146**
0.7601 in to 1.0000 in	Uncoated	**K7171**

▶CHOOSE: Dia.	▶CHOOSE: Finish	Item No.
ZZ Go (Plus)		
0.0040 in to 0.0105 in	Uncoated, Black Oxide	**K2889**
0.0110 in to 0.0605 in	Uncoated, Black Oxide	**J5804**
0.0610 in to 0.5005 in	Uncoated, Black Oxide	**J5805**
0.5010 in to 0.6255 in	Uncoated	**J5807**
0.6260 in to 0.7505 in	Black Oxide	**J5808**
0.7510 in to 0.8325 in	Black Oxide	**J5809**
0.8330 in to 0.9165 in	Black Oxide	**J5810**
0.9170 in to 1.0005 in	Black Oxide	**J5811**

▶CHOOSE: Dia.	▶CHOOSE: Finish	Item No.
ZZ No-Go (Minus)		
0.0110 in to 0.0605 in	Uncoated, Black Oxide	**K2898**
0.0610 in to 0.5005 in	Uncoated, Black Oxide	**K2901**
0.5010 in to 0.6255 in	Uncoated	**K6961**
0.6260 in to 0.7505 in	Uncoated, Black Oxide	**K6966**
0.7510 in to 0.8325 in	Uncoated	**K6971**
0.8330 in to 0.9165 in	Black Oxide	**K6975**
1.30mm to 9.99mm	Uncoated	**K2929**
10.00mm to 13.99mm	Uncoated	**K2927**

For more information on Precision Measuring Instruments, see page 2325.

Black Oxide Set 5VUD8

Black Oxide Library 5MAU4

Vermont Gage Starrett®

Pin Gauge Set & Libraries

- ZZ Tolerance class
- 0.001 in/0.02 mm Diameter increment

Go (Plus) pin gauge sets contain 240 pin gauges in a sturdy case, each with a marked slot in an insert. Gauges are used to confirm that a hole's diameter meets the minimum spec size. Each pin is a 2"-long rod of tool steel with a black-oxide coating that shows signs of wear so users know when the gauge may need to be replaced. These gauges offer mild resistance and wear recognition, with a surface finish of 10 micro inches or better.

Diameter Range	No. of Gauges	Brand	Gauge Type No-Go (Minus) Item No.	Gauge Type Go (Plus) Item No.
Uncoated Sets				
Inch				
0.0110 in to 0.0600 in	50	Vermont Gage	**39UF09**	—
0.0110 in to 0.0600 in	50	Starrett	**4CEU3**	—
0.0610 in to 0.2500 in	190	Vermont Gage	**39UF10**	—
0.0610 in to 0.2500 in	190	Starrett	**4CEU5**	—
0.2510 in to 0.5000 in	250	Vermont Gage	**39UF11**	—
0.2510 in to 0.5000 in	250	Starrett	**4CEU7**	—
Black Oxide Sets				
Inch				
0.0110 in to 0.0600 in	50	Vermont Gage	**5VUD8**	**5VUD0**
0.0110 in to 0.0600 in	50	Starrett	—	**4CEU2**
0.0110 in to 0.2500 in	240	Vermont Gage	**5VUD9**	**5VUD1**
0.0610 in to 0.2500 in	190	Vermont Gage	**5VUE0**	**5VUD2**
0.0610 in to 0.2500 in	190	Starrett	—	**4CEU4**
0.2510 in to 0.5000 in	250	Vermont Gage	**5VUE1**	**5VUD3**
0.2510 in to 0.5000 in	250	Starrett	—	**4CEU6**
0.5010 in to 0.6250 in	125	Vermont Gage	**5VUE2**	**5VUD4**
0.6260 in to 0.7500 in	125	Vermont Gage	**5VUE3**	**5VUD5**
0.7510 in to 0.8320 in	82	Vermont Gage	**5VUE4**	**5VUD6**
0.8330 in to 0.9160 in	84	Vermont Gage	**5MAU0**	**5MAT5**
0.9170 in to 1.0000 in	84	Vermont Gage	**5MAU1**	**5MAT6**
Metric				
1.30 to 4.98 mm	185	Vermont Gage	—	**5VUE6**
1.31 to 4.99 mm	185	Vermont Gage	**5VUF5**	—
5.00 to 9.98 mm	250	Vermont Gage	**5VUF0**	**5VUE7**
Black Oxide LIbraries				
Inch				
0.0110 in to 0.7500 in	740	Vermont Gage	**5MAU2**	**5MAT7**
0.0110 in to 1.000 in	990	Vermont Gage	**5MAU3**	**5MAT8**
0.0610 in to 0.7500 in	690	Vermont Gage	**5MAU4**	**5MAT9**

INSIZE Starrett® Mitutoyo

Radius Gauge Sets

Fixed Leaves with Handle 463N63

These radius gauge sets contain various-sized loose leaves or multiple leaves that are mounted to one or more hubs on a handle. They are used to quickly check or inspect the size of the radius or fillet, confirming a known size or determining an unknown one. They are also used as a stencil on a workpiece in combination with a scriber and layout die to mark a radius that needs to be cut. These gauges are commonly used in woodworking and light and heavy manufacturing applications.

Loose Leaves 30A773

No. of Leaves	Range	Accuracy	Config.	Brand	Item No.
Fixed Leaves With Handle					
15	1⁄32 in to 1⁄4 in	±0.0012 in	15 Concave & 15 Convex Radii	Insize	**463N63**
16	1⁄32 in to 17⁄64 in by 64ths	±0.002 in	Convex & Concave Radii Per Each Leaf	Starrett	**30A741**
32	17⁄64 in to 1⁄2 in by 64ths	±0.002 in	Concave & Convex Radii	Mitutoyo	**6NRD1**
34	1 mm to 7mm	±0.002 in	Concave & Convex Radii	Mitutoyo	**16X229**
Loose Leaves					
8	9⁄16 in to 1 in by 16ths	±0.0025 in	3 Convex & 2 Concave Radii	Insize	**463N69**
22	0.5 mm to 7mm by 0.5 mm, 8 mm to 15mm by 1mm	±0.002 in	5 Convex & Concave Radii	Starrett	**30A773**
25	1⁄64 in to 17⁄64 in by 64ths, 9⁄32 in to 1⁄2 in by 32nds	±0.002 in	5 Convex & Concave Radii	Starrett	**2ZVD3**
25	1⁄64 in to 1⁄2 in	±.0002 in	3 Convex & 2 Concave Radii	Insize	**463N66**
26	0.01 in to 0.03 in by 0.005 in, 0.04 in to 0.1 in by 0.01 in, 0.12 in to 0.3 in by 0.02 in, 0.35 in to 0.5 in by 0.05 in	±0.0016 in/0.04 mm	5 Convex & Concave Radii	Mitutoyo	**1ZRR2**

Starrett®

Shaft Alignment Tools

4CEV9

Shaft alignment tools check alignment of motor bearings and shafts without having to dismantle the engine or check alignment in hard-to-reach areas. Sets typically pair a roller-chain clamp with an extension clamp and posts, or include one or two clamps with accessories and dial indicators in a hard case.

Includes	Dial Gauge Range	Dial Reading	Graduations	Item No.
(2) 81 141J/657Y Indicator, (2) Chain Clamp, (2) Extension Plate, (2) PT18724 Snug	0.25 in	0-50-0	0.2 in	**4CEW1**
(2) 196B5 Indicator, (2) Chain Clamp, (2) Extension Plate, (2) PT18724 Snug	0.2 in	0-50-0	0.2 in	**4CEV9**
(1) Chain Clamp, (1) Extension Plate, (1) Posts (5 in, 7 7⁄16 in, 9 in)	—	—	—	**4CEW3**
(2) Chain Clamp, (2) Extension Plate	—	—	—	**4CEW2**

Single End with Swivel Head No 39EP70

Double End 2ZVG8

Pin Vises

GENERAL® Moody® Starrett®

These pin vises securely hold wires, scriber points, taps, pin gauges, drills, and other small items. These tools hold delicate and small items in place within a twist clamp. Insert the end of a workpiece into the pin vise and clamp it in place.

Range - Inch	Range (mm)	Brand	Item No.
Single End with Swivel Head			
Knurled Grip Style, Round Grip Shape			
0 in to 0.125 in	0 mm to 3.2 mm	General	**39EP70**
Single End Set of 4			
Knurled Grip Style, Round Grip Shape			
0 in to 0.187 in	0 mm to 4.8 mm	Moody Tool	**6LET0**
PVC Coated Grip Style, Octagon Grip Shape			
0.03 in to 0.187 in	0.80 mm to 4.8 mm	Starrett	**2ZVH4**
Single End			
Knurled Grip Style, Round Grip Shape			
0 in to 0.04 in	0 mm to 1 mm	Starrett	**2ZVG3**
0 in to 0.055 in	0 mm to 1.4 mm	General	**3KMK7**
0 in to 0.187 in	0 mm to 4.8 mm	Starrett	**2ZVG7**
0.01 in to 0.055 in	0.25 mm to 1.4 mm	Starrett	**2ZVH5**
0.01 in to 0.2 in	0.25 mm to 5.1 mm	Starrett	**2ZVH9**
0.025 in to 0.075 in	0.64 mm to 1.9 mm	Starrett	**2ZVH6**
0.03 in to 0.062 in	0.80 mm to 1.6 mm	Starrett	**2ZVG4**
0.045 in to 0.135 in	1.20 mm to 3.4 mm	Starrett	**2ZVH7**
0.05 in to 0.125 in	1.30 mm to 3.2 mm	Starrett	**2ZVG5**
0.11 in to 0.2 in	2.80 mm to 5.1 mm	Starrett	**2ZVH8**
0.115 in to 0.187 in	2.90 mm to 4.8 mm	Starrett	**2ZVG6**
PVC Coated Grip Style, Octagon Grip Shape			
0 in to 0.04 in	0 mm to 1 mm	Starrett	**2ZVG9**
0.03 in to 0.062 in	0.80 mm to 1.6 mm	Starrett	**2ZVH1**
0.05 in to 0.125 in	1.30 mm to 3.2 mm	Starrett	**2ZVH2**
0.115 in to 0.187 in	2.90 mm to 4.8 mm	Starrett	**2ZVH3**
Double End			
Knurled Grip Style, Round Grip Shape			
0 in to 0.125 in	0 mm to 3.2 mm	Starrett	**2ZVG8**

1-2-3 Setup Blocks

- Matched pair
- 0.0001" per 1" squareness
- Long- and short-form certification included

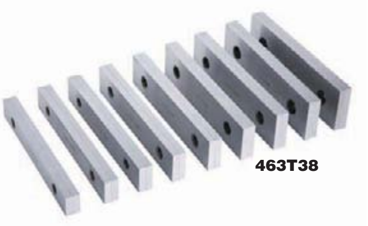
1-2-3 setup blocks are used to raise workpieces a prescribed distance off a machine table or other surfaces. Blocks come in a wooden case and ensure accurate angles and spacing when inspecting or working on items. Most blocks have tapped holes for clamping and bolting applications.

No. of Holes	Hole Style	Item No.
1 in x 2 in x 3 in		
1	5⁄16"-18 Tapped	**45TY05**
11	1⁄2" Through	**45TY04**
23	3⁄8"-16 Tapped	**45TY06**
2 in x 3 in x 4 in		
23	3⁄8"-16 Tapped	**45TY08**
2 in x 4 in x 6 in		
23	3⁄8"-16 Tapped	**45TY09**

23 Hole 45TY06

For more information on Precision Measuring Instruments, see page 2325.

Starrett · INSIZE · TESA Technology · brown & sharpe



463T38

Precision Steel Parallels & Sets

These precision steel parallel sets are comprised of rectangular blocks with highly parallel, square dimensions within tight tolerances. When a vise is too deep to hold a workpiece, parallels are commonly used to position the workpiece for accurate cutting by creating a parallel and flat base. These parallels offer certainty about the alignment of the workpiece rather than requiring guesswork and constant adjustments with a level, protractor, or indicator.

No. of Pairs	Included Sizes	L	Thickness	Parallelism	Brand	Item No.
1	½ in x 1 in	6 in	½ in	100 µin	Starrett	**30A621**
9	1 ½ in, 1 ¼ in, 1 ⅛ in, 1 3/4in, 1 ⅜ in, 1 ⅝ in, 1 in, ¾ in, ⅞ in	6 in	¼ in	300 µin	Insize	**463T39**
10	1 ½ in, 1 ¼ in, 1 ⅛ in, 1 ¾ in, 1 ⅜ in, 1 ⅝ in, 1 in, ½ in, ¾ in, ⅝ in, ⅞ in	6 in	⅛ in	300 µin	Insize	**463T38**
10	½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in, 1 ¼ in, 1 ⅜ in, 1 ½ in, 1 ⅝ in	6 in	⅛ in	—	Tesa Brown & Sharpe	**5TZU3**

INSIZE · Mitutoyo

Horizontal
1ARJ9

Vertical
463H36

Single-Function Digital Scale Units with SPC Output

Linear scales with SPC output move along a beam and display the distance traveled on a digital display. They are available in horizontal or vertical designs to measure distances. They measure absolute positioning, zero-setting for relative positioning, and have built-in low battery alarms. The also have direction changeover to reverse the direction of measurement, programmable presets to display a specific value, and data hold. They are commonly used for table positioning, quill positioning, and tool presetting.

Range	Accuracy	Brand	Horizontal Digital Scale Unit Item No.	Vertical Digital Scale Unit Item No.
Not Rated				
0 in to 12 in/0 to 300 mm	±0.0016 in	Insize	**463H27**	**463H36**
0 in to 16 in/0 to 400 mm	±0.002 in	Insize	**463H28**	—
0 in to 16 in/0 to 400 mm	±.002 in	Insize	—	**463H37**
0 in to 20 in/0 to 500 mm	±.002 in	Insize	**463H29**	**463H38**
IP66 Rated				
0 in to 4 in/0 to 100 mm	±0.001 in/0.03 mm	Mitutoyo	**1ARJ9**	**33RJ82**
0 in to 6 in/0 to 150 mm	±0.001 in/0.03 mm	Mitutoyo	**1ARR4**	**4CGX2**
0 in to 8 in/0 to 200 mm	±0.001 in/0.03 mm	Mitutoyo	**4CGX1**	**4CGX3**

Grade B Toolroom
6PCV6

Grade A
463K66

Grade AA
6PCX2

Starrett · INSIZE

Inspection Surface Plates

Grade B Toolroom Grade surface plates are made to a precise tolerance of flatness and repeatability suitable for smaller QA and inspection jobs on the shop floor where metrology lab-level sensitivity is not a factor. **Grade A Inspection Grade** surface plates are built to a medium tolerance of flatness and repeatability. They have either four flat edges or ledges on two sides that create an overhang for clamping, supporting, and securing objects. **Grade AA Laboratory Grade** surface plates are made to the best tolerance of flatness and repeatability. These plates are thicker than lesser-grade plates, so they have less deflection and are intended for permanent installation.

Surface Size	Color	Flatness	Weight (lb.)	Brand	Item No.
Grade B					
Flat Edge Style					
36 in x 36 in; 900 mm x 900 mm	Pink	0.0006 in	745	Starrett	**6PCV2**
36 in x 48 in; 900 mm x 1200 mm	Pink	0.0008 in	990	Starrett	**6PCV3**
36 in x 60 in; 900 mm x 1800 mm	Pink	0.001 in	1,650	Starrett	**6PCV4**
36 in x 72 in; 900 mm x 1800 mm	Pink	0.0012 in	1,520	Starrett	**6PCV5**
48 in x 48 in; 1200 mm x 1200 mm	Pink	0.0009 in	1,520	Starrett	**6PCV6**
Grade A					
Flat Edge Style					
12 in x 18 in; 300 mm x 450 mm	Gray	0.00012 in/0.0030 mm	93	Insize	**463K63**
18 in x 24 in; 450 mm x 600 mm	Gray	0.00012 in/0.0030 mm	181	Insize	**463K64**
18 in x 24 in; 450 mm x 600 mm	Pink	0.000150 in/0.0038 mm	248	Starrett	**6PCT4**
24 in x 24 in; 600 mm x 600 mm	Pink	0.000150 in/0.0038 mm	330	Starrett	**6PCT5**
24 in x 36 in; 600 mm x 900 mm	Gray	0.00012 in/0.0030 mm	441	Insize	**463K65**
36 in x 36 in; 900 mm x 900 mm	Pink	0.000300 in/0.0076 mm	745	Starrett	**6PCT8**
36 in x 48 in; 900 mm x 1200 mm	Gray	0.00012 in/0.0030 mm	1,268	Insize	**463K66**
48 in x 72 in; 1200 mm x 1800 mm	Pink	0.000700 in/0.0177 mm	3,300	Starrett	**6PCU3**
48 in x 96 in; 1200 mm x 2400 mm	Pink	0.001000 in/0.0254 mm	5,280	Starrett	**6PCU4**
Grade AA					
Flat Edge Style					
18 in x 18 in; 450 mm x 450 mm	Pink	0.000050 in/0.0012 mm	125	Starrett	**6PCN9**
18 in x 24 in; 450 mm x 600 mm	Pink	0.000075 in/0.0019 mm	248	Starrett	**6PCR0**
24 in x 36 in; 600 mm x 900 mm	Pink	0.000100 in/0.0025 mm	495	Starrett	**6PCR2**
30 in x 48 in; 750 mm x 1200 mm	Pink	0.000168 in/0.0043 mm	1,585	Starrett	**6PCR3**
36 in x 48 in; 900 mm x 1200 mm	Pink	0.000200 in/0.0050 mm	1,320	Starrett	**6PCR5**
Two Ledges Edge Style					
48 in x 96 in;	Pink	0.000500 in/0.0127 mm	6,750	Starrett	**6PCX2**

Horizontal
54GF40

Vertical
463D22

Optical Comparators

Mitutoyo · INSIZE

- 10X Magnification lens included

Horizontal optical comparator are suitable for shaft parts or heavy workpieces with large volume. The main axis of the comparator is perpendicular to the plane of the projection screen. **Vertical** optical comparators are suitable for flat parts or smaller workpieces. The main axis is parallel to the plane of the screen.

Projector Series	Screen Size	Table Size	Effective Table Working Area	Y-Axis Vertical Focus Travel	X-Axis Table Travel	Image Type	Res.	Brand	Item No.
Horizontal									
Mitutoyo PH-3515F	14 in	17 11/16 in x 5 11/16 in	17 11/16 in x 5 11/16 in	6 in	10 in	Erect Image	0.0001mm	Mitutoyo	**54GF40**
	14 in	17 45/64 in x 5 45/64 in	17 45/64 in x 5 45/64 in	6 in	10 in	Erect Image	0.0001 in/0.001mm	Mitutoyo	**54GF82**
Mitutoyo PH-3515F with QM Data	14 in	17 11/16 in x 5 11/16 in	17 11/16 in x 5 11/16 in	6 in	10 in	Erect Image	0.0001mm	Mitutoyo	**54GF39**
Mitutoyo PH-A14	14 in	16 in x 6 in	16 in x 6 in	4 in	8 in	Inverted Image	0.00005 in/0.001mm	Mitutoyo	**54GF47**
Mitutoyo PH-A14 with KA Counter	14 in	17 in x 6 in	17 in x 6 in	3 in	8 in	Inverted Image	0.00005 in/0.001mm	Mitutoyo	**4LA59**
Vertical									
INSIZE ISP-A	12 in	13 ⅜ in x 6 in	13 ⅜ in x 6 in	3.54 in	6 in	Erect Image	0.00002 in	Insize	**463D22**
	12 in	15 15/16 in x 9 in	15 15/16 in x 9 in	3.94 in	8 in	Erect Image	0.00002 in	Insize	**463D26**
INSIZE ISP-Z	12 in	13 ⅜ in x 6 in	13 ⅜ in x 6 in	3.54 in	6 in	Erect Image	0.00002 in	Insize	**463D31**
Mitutoyo PJ-A3000	12.4 in	14 15/16 in x 9 13/16 in	10 ½ in x 6 ¾ in	3.64 in	8 in	Inverted Image	0.0001 in/0.001mm	Mitutoyo	**54GF42**
	12.4 in	9 15/16 in x 9 15/16 in	7 ¼ in x 3 ¼ in	3.58 in	4 in	Inverted Image	0.0001 in/0.001mm	Mitutoyo	**54GF43**

For more information on Precision Measuring Instruments, see page 2325.

Handheld Surface Roughness Testers with On-Board Probe & Display

Built with an on-board probe and digital display, the entire unit can be placed directly on the surface of a feature or workpiece. The retractable probe extends from the body in multiple orientations. They have a simple digital display that can cycle through standard measurements such as Ra and Rz of a surface.

Marsurf Pocket Surf Iv 40TF45

Measuring Range	Profile Resolution	Probe Tip Radius	Parameters Measured	Drive Unit Principle	Detector Measuring Force	No. of Sampling Spans	Sampling Length	Transverse Cutoff Length	Brand	Mfr. Model	Item No.
Insize C002 Series											
6299 µin	0.01µin	5 um	Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax	Skid	2.78 mN	1, 2, 3, 4, 5	0.2 in	0.01 in; 0.03 in; 0.1 in	Insize	ISR-C002	**463L43**
Insize C003 Series											
2 to 590 µin, 4 to 1968 µin	0.01µin	10 um	Ra, Rz, Rq, Rt	Skid	3.34 mN	3	0.2 in	0.01 in; 0.03 in; 0.1 in	Insize	ISR-C003	**463L44**
Insize S1000B Series											
0 µin to 3937 µin, 1.97 µin to 15748 µin	0.01µin	5 um	Ra, Rq, Rt, Rz, Rc, Rmax, Rsm, Rpc, Rmr, R, Ar, Rx	Skid	0.83 mN	1, 2, 3, 4, 5	0.63 in	0.01 in; 0.03 in; 0.1 in	Insize	ISR-S400	**463L26**
Marsurf Pocket Surf IV Series											
Ra: 6.35 µm/250 µin, Ry, Rmax, Rz: 25.3 µm/999 µin	0.01 micron, 1 microinch	10 um	Ra, Rmax/Ry, Rz	Skid	15 mN	1, 2, 3, 4, 5	0.030 in, 0.090 in, 0.150 in	0.8 mm, 0.03 mm	Mahr	2191800	**40TF45**
Marsurf Pocket Surf Iv Series											
Ra: 6.35 µm/250 µin, Ry, Rmax, Rz: 25.3 µm/999 µin	0.01 micron, 1 microinch	5 um	Ra, Rmax, Ry, Rz	Skid	15 mN	1, 2, 3, 4, 5	0.030 in, 0.090 in, 0.150 in	0.8 mm, 0.03 in	Mahr	2191802	**40TF46**
RugoSurf 20 Series											
400 µm/0.0157 in, 16 mm/0.63 in	0.001µm	5 um	Ra, Rq, Rt, Rc, RSm, RPc, Rmr, Rz, Rmax, PPc, Pmr	Standard	0.75 mN	2	—	0.25 mm, 0.8 mm, 2.50 mm	Tesa Brown & Sharpe	06930013	**38N887**

Portable Surface Roughness Testers with Wired External Display

SJ-210 Series 5RCG9

- See Grainger.com® for parameters measured

Portable surface roughness testers are built with a probe that can extend from the body and digital display to reach large workpieces, hard-to-reach areas, and take other measurements in complex positions. They can cycle through standard measurements such as Ra and Rz of a surface.

Measuring Range	Profile Resolution	Probe Tip Radius	Drive Unit Principle	Detector Measuring Force	No. of Sampling Spans	Brand	Mfr. Model	Item No.
ISR-C300 Series								
689 to 12598 µin, 6299 to 6299 µin	0.01µin	5 um	Traverse	4 mN	1, 2, 3, 4, 5	Insize	ISR-C300	**54XJ13**
Marsurf Ps 10 Series								
0.350 mm	8 nm	5 um	Standard	0.75 mN	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Mahr	6910230	**446F42**
0.350 mm	8 nm	2 um	Standard	0.75 mN	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Mahr	6910232	**446F41**
SJ-210 Series								
17.50 mm	—	5 um	Standard	4 mN	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Mitutoyo	178-561-12A	**5RCG9**
SJ-412 Series								
800µm	0.01micron (800 micron Range) / 0.001 micron (80 micron Range) / 0.0001 micron (8 micron Range), 0.4 microinch (32000 microinch) / 0.04 microinch (3200 microinch) / 0.004 microinch (320 microinch)	2 um	Traverse	4 mN	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Mitutoyo	178-583-12A	**39X224**
SR300 Series								
200 micrometers	10 nm	5 um	Skid	3 mN	2	Starrett	SR300	**53VE73**
SR400 Series								
360 micrometers	5 nm	5 um	Skid	3 mN	2	Starrett	SR400	**53VE74**

Handheld Durometers

Mechanical 1ARV2

Digital 463T24

Shore A durometers can measure more flexible materials, such as the rubbers used to make hydraulic O rings and automotive tire treads. Shore D durometers can measure harder materials, such as those used to make hard hats and solid truck tires. **Analog durometers** have peak-retaining hand functions that help provide error-free readings. **Digital durometers** have a data-hold function that can retain readings on the LCD or allow them to be downloaded to a computer.

Range	Res.	Indenter Shape	Tip Angle	SPC Output	Durometer Body Style	Brand	Item No.
Handheld Analog Durometers							
Shore A Scale							
0 to 100	—	Blunt Taper	35 °	—	—	Insize	**463T31**
10 to 90	—	Blunt Taper	35 °	—	—	Insize	**463T35**
10 to 90	—	Blunt Taper	35 °	—	Long Leg	Mitutoyo	**1ARV2**
Shore D Scale							
0 to 100	—	Sharp Point	30 °	—	—	Insize	**463T33**
20 to 90	—	Sharp Point	30 °	—	—	Insize	**463T41**
20 to 90	—	Sharp Point	30 °	—	Long Leg	Mitutoyo	**1ARV4**
Handheld Digital Durometers							
Shore A Scale							
0 to 100	0.5 HA	—	—	No	—	Starrett	**53VE96**
0 to 100	0.1 HA	—	35 °	Yes	—	Insize	**463T24**
10 to 90	0.1 HA	—	35 °	Yes	Compact	Mitutoyo	**1ZRT4**
Shore D Scale							
0 to 100	0.1 HD	—	30 °	Yes	—	Insize	**463T26**
20 to 90	0.1 HD	—	30 °	Yes	Long Leg	Mitutoyo	**1ARV5**
20 to 90	0.1 HD	—	30 °	Yes	Compact	Mitutoyo	**1ZRT6**

Loupes

3H230

Loupes are small magnifying lenses held up to the eye to bring small details into focus. These magnifying glasses are commonly used for close jewelry inspection, watchmaking, dentistry, photography, printing, and detailed scientific research

Item	Power	Focal Distance	Lens Dia.	Diopter	Brand	Item No.
Clip-on System Kit	1.7X to 7X	160 mm, 180 mm, 250 mm, 32 mm, 400 mm, 55 mm	—	2.5D to 28D	Eschenbach Optik Gmbh	**3DUX9**
Eye Loupe	10X	0.8 in	12.70 mm	40D	Aven	**39AN75**
Fixed Focus Loupe	10X	1 in	24.00 mm	16D	Peak	**49CT48**
	10X	1 in	25.40 mm	16D	Peak	**49CT47**
	15X	0.8 in	19.10 mm	16D	Peak	**49CT49**
	22X	0.8 in	19.10 mm	16D	Peak	**49CT50**
Focus Light Loupe	10X	1 in	25.40 mm	16D	Peak	**49CT51**
	15X	0.8 in	20.30 mm	16D	Peak	**49CT52**
Focus Scale Loupe	10X	1 in	20.00 mm	16D	Peak	**49CT54**
	15X	0.8 in	13.00 mm	16D	Peak	**49CT55**
General Loupe	5X	2 in	25.40 mm	16D	Peak	**49CT46**
Hastings Triplet Loupe	10X	1.1 in	15.80 mm	40D	Bausch & Lomb	**2RPA3**
Illuminated Pocket Magnifier	4X	2.5 in	—	16D	Eschenbach Optik Gmbh	**4XKP9**
Measuring Loupe Combo Set	10X	1 in	20.30 mm	16D	Peak	**49CT57**
Table Magnifier	2.25X	—	4.80 in	5D	Insize	**55VP09**
Watchmakers Loupe	4X	2.5 in, 6.4 cm	25.40 mm	16D	Bausch & Lomb	**3H423**
	5X	2 in, 5.1 cm	25.40 mm	20D	Bausch & Lomb	**3H421**
	7X	1.4 in	25.40 mm	28D	Bausch & Lomb	**3H372**
	10X	1.1 in	25.40 mm	40D	Bausch & Lomb	**3H230**

For more information on Precision Measuring Instruments, see page 2325.

3G983

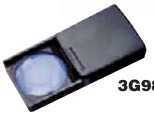
Magnifiers

463C81

3DUV7

3G993

463C83



3G985

Item	Power	Focal Distance	Lens Dia.	Diopter	Case	Brand	Item No.
Aspheric Stand Magnifier	10X	0.8 in	23 mm	40D	Chrome	Eschenbach Optik Gmbh	**45PF38**
Bifocal Magnifier	3X	—	3 in	—	Plastic	Dmi	**36ED35**
Coddington Magnifier	10X	1 in, 2.5 cm	19.8 mm	40D	Nickel Plated, Swing Away	Bausch & Lomb	**3H427**
	20X	0.5 in, 1.3 cm	12.5 mm	80D	Nickel Plated, Swing Away	Bausch & Lomb	**3H429**
Double Lens Magnifier	3.5X	3 in, 7.3 cm	1.63 in	14D	Nickel Plated, Swing Away	Bausch & Lomb	**2RNZ9**
Folding Pocket Magnifier	4X	2.5 in	36 mm	16D	Plastic	Bausch & Lomb	**3G977**
	4X to 9X	1.1 in, 2.5 in	23 mm	16D to 36D	Plastic	Bausch & Lomb	**3G981**
	5X to 20X	0.5 in, 2 in	(2) 20.3 mm, (1) 15.2 mm	20D to 80D	Plastic	Bausch & Lomb	**3G983**
	8X	—	21 mm	—	—	Insize	**463C81**
Handheld LED Magnifier	3.5X	4 in	—	10D	Plastic	Eschenbach Optik Gmbh	**3DUW1**
	7X	1.43 in	35 mm	28D	Plastic	Eschenbach Optik Gmbh	**3DUW4**
	10X	1.05 in	35 mm	38D	Plastic	Eschenbach Optik Gmbh	**3DUV7**
	12.5X	0.8 in	30 mm	50D	Plastic	Eschenbach Optik Gmbh	**3DUV8**
Handheld Magnifier	2X	19.2 cm, 7.6 in	3.5 in	5.2D	—	Bausch & Lomb	**21U872**
Hastings Triplet Magnifier	10X	1 in, 2.5 cm	15.8 mm	40D	Nickel Plated, Swing Away	Bausch & Lomb	**3H431**
	14X	0.8 in, 2 cm	12.5 mm	56D	Nickel Plated, Swing Away	Bausch & Lomb	**2RPA4**
	20X	0.5 in, 1.3 cm	8.3 mm	80D	Nickel Plated, Swing Away	Bausch & Lomb	**3H433**
Hastings Triplet Measuring Magnifier	7X	1.5 in, 3.9 cm	19.8 mm	28D	Transparent	Bausch & Lomb	**3G995**
Illuminated Coddington	10X	1 in, 2.5 cm	19.8 mm	40D	—	Bausch & Lomb	**3G993**
Illuminated Dual Magnifier	4X	—	1.75 in	—	—	Control Company	**3LJK3**
Illuminated Magnifier	2X	—	75 mm	—	—	Insize	**463C83**
	2X, 4X	—	120 mm	—	—	Insize	**463C82**
	4X	—	50 mm	—	—	Insize	**463C84**
	10X	—	21 mm	—	—	Insize	**463C86**
LED DC Magnifier Handle	Battery	—	—	—	Plastic	Eschenbach Optik Gmbh	**3DUX4**
LED Pocket Magnifier	3X	5 in	—	8D	Glass Fiber Reinforced Plastic	Eschenbach Optik Gmbh	**3DUY3**
Linen Tester	5X	1 in	23.37 mm	40D	Plastic	Eschenbach Optik Gmbh	**45PF50**
	8X	2 in	17.53 mm	24D	Chrome	Eschenbach Optik Gmbh	**45PF45**
Magnifier	2X	10 in	3 in	4D	Plastic	Westward	**11W399**
Magnifier Pocket Scope	40x	—	9 mm	—	Aluminum	Westward	**6XY17**
Magnifying Head	12.5X	0.8 in	1.18 in	50D	Plastic	Eschenbach Optik Gmbh	**3DUX1**
Metal Precision Folding Magnifier	12X	0.8 in	23 mm	48D	Chrome	Eschenbach Optik Gmbh	**45PF28**
Packette Magnifier	5X	2 in, 5.1 cm	37 mm	20D	Plastic	Bausch & Lomb	**3G985**
Telescoping Magnifier	3X	10 cm	2 in	10D	—	Westward	**1VUA4**

463C87

Digital Protractors

These protractors resemble digital levels and are commonly used in metalworking, machining, and light and heavy manufacturing applications.

Range	Res.	Accuracy	Functions	IP Rating	SPC Output	Brand	Item No.
-360° to 360°	0.1°	+/-0.05°	4-Modes (°, %, mm/m, inch/ft), Automatic Shut Off, Hold Function, Reference Function	IP65	Yes	Stabila	**55JK53**
	0.01° (0° to 9.99°), 0.1° (10° to 90°)	+/-0.05°	Hold Function,	—	Yes	Mitutoyo	**1ZRV4**
-360° to 360°, 90° x 4	0.05°	+/-0.05°	Absolute, Automatic Power Off, , Buzzer Alarm, Hold Function, Incremental Measurement, Sea Level is Permanently Set Inside The Chip, Unit (Degrees , %, mm, m), Zero Setting is Not Needed When Batteries are Replaced	IP67	No	Insize	**463C87**
	0.1°	+/-0.1°	Hold Function	—	No	Mitutoyo	**4LB15**
	0.1°	+/-0.1°	Hold Function,	Not Rated	No	Westward	**2YNJ1**
	0.1°	+/-0.05°	4-Modes (°, %, mm/m, Inch/ft), Automatic Shut Off, Hold Function	IP65	Yes	Stabila	**55JK54**
	—	+/-0.20°	Hold Function, Level,	Not Rated	No	Westward	**2YNK6**
0° to 180°	0.05°	+/-0.1°	Absolute and Relative Measurements, Can Invert Display, Hold Function,	—	—	General	**8NC28**

Semi-Circular
463C11

Manual-Reading Protractors

- 0° to 180° Range

Blade Length	Accuracy	Brand	Item No.
Rectangular			
Stainless Steel			
6 in	—	General	**39EP33**
Steel			
6 in	—	Westward	**4KU93**
	—	Mitutoyo	**1ARY7**
	+/-0.5°	Starrett	**2ZUY2**
Semi-Circular			
Stainless Steel			
4 45⁄64 in	+/-0.3°	Insize	**463C15**
5 29⁄32 in	+/-0.3°	Insize	**463C11**
7 29⁄32 in	+/-0.3°	Insize	**463C12**
11 13⁄16 in	+/-0.3°	Insize	**463C13**
Steel			
6 in	—	Mitutoyo	**1ARY6**
	+/-0.5°	Starrett	**2ZUY3**
19 45⁄64 in	+/-0.3°	Insize	**463C14**

Machinist Precision Steel Squares and Sets

- 90° Angle

Outside Dimensions	Squareness - Inch	With Wide Base	Brand	Item No.
Squares				
Stainless Steel				
3 in x 2 in	0.0002 in (Inside), 0.0003 in (Outside)	No	Insize	**463T74**
7 29⁄32 in x 5 7⁄64 in	0.0003 in (Inside), 0.0004 in (Outside)	No	Insize	**463T77**
Steel				
2 31⁄32 in x 1 31⁄32 in	0.001 in	No	Starrett	**3AER1**
3 in x 2 in	0.0010 in (Inside), 0.0011 in (Outside)	Yes	Insize	**463G45**
3 31⁄32 in x 2 31⁄32 in	0.001 in	No	Starrett	**3AER2**
5 29⁄32 in x 3 29⁄32 in	0.001 in	No	Starrett	**3AER3**
6 in x 4 5⁄16 in	0.0002 in	No	Starrett	**2ZUT8**
6 in x 4 in	0.0013 in (Inside), 0.0014 in (Outside)	Yes	Insize	**463G37**
8 in x 5 in	0.0015 in (Inside), 0.0016 in (Outside)	Yes	Insize	**463G38**
10 in x 6 in	0.0017 in (Inside), 0.0018 in (Outside)	Yes	Insize	**463G39**
12 in x 7 in	0.0002 in	No	Starrett	**2ZUT9**
12 in x 8 in	0.0019 in (Inside), 0.0020 in (Outside)	Yes	Insize	**463G40**
12 1⁄32 in x 6 7⁄8 in	0.001 in	No	Starrett	**3AER4**
16 in x 10 in	0.0022 in (Inside), 0.0024 in (Outside)	Yes	Insize	**463G41**
24 in x 14 in	0.0030 in (Inside), 0.0032 in (Outside)	Yes	Insize	**463G44**

6XY11

No. of Pieces	Outside Dimensions	Squareness - Inch	Case Type	Brand	Item No.
Sets					
Carbon Tool Steel					
4	2 in x 1 ½ in; 3 in x 2 ½ in; 4 in x 3 in; 6 in x 4 in	0.0006 in to 0.0008 in	—	Westward	**6XY11**
4	4 in x 3 in; 6 in x 4 in; 9 in x 6 in; 12 in x 8 in	0.0006 in to 0.0012 in	—	Westward	**6XY13**
Steel					
4	2 31⁄32 in x 1 31⁄32 in; 3 31⁄32 in x 2 31⁄32 in; 5 29⁄32 in x 3 29⁄32 in; 12 1⁄32 in x 6 7⁄8 in	0.001 in	Plastic	Starrett	**2ZUU1**

Starrett® WESTWARD®

Automatic Center Punches

2ZVF4

2YNE9

- No striking required
- Replaceable tips

All punches have a steel tip for punching starter holes or producing small indentations in workpieces to facilitate drilling. 2ZVF4 is a hinge locating center punch.

L	Dia.	Adjustable	Brand	Mfr. Model	Item No.	
4 in	9/16 in	Yes	Starrett	18AA	**2ZVE8**	
5 in	⅝ in	Yes	Starrett	819	**2ZVF4**	†
	9/16 in	Yes	Starrett	18A	**2ZVE9**	
	½ in	Yes	Westward	—	**2YNE9**	
5 ¼ in	11/16 in	Yes	Starrett	18C	**2ZVF2**	
6 in	⅝ in	Yes	Westward	—	**2YNF1**	*
		Yes	Westward	—	**2YNF2**	

*** Carbide Tip † Hinge Locating***

Starrett®

Hardness Tester

Handles Rockwell scales A through H and K and provides reliable values on hard or soft metal and alloys. Includes diamond indentor, 1/16" ball indentor, 3 certified test blocks, 4 test tables, 5.87" and 2.5" flat anvils, ⅝" spot anvil, and a standard vee anvil. Also includes case.

Description	Mfr. Model	Item No.
Analog Hardness Tester	3814	**2ZUP4**

4-Pc. 2KKV4

3-Pc. 3G945

MAYHEW GENERAL®

Probe Sets

Description	Point Type	Overall Length (in.)	Brand	Mfr. Model	Item No.
4-Pc. Mini Hook and Pick Set	Straight, 90° , Curved, and Complex Hooks	6 ½ in	Mayhew	60003	**2KKV4**
4-Pc. Probe Set	180° Hook, 35° Bend, 90° Bend, Straight	6 in	General	60004	**1XHP8**
3-Pc. Probe Set	45°, Double Bend, Hook Bend	6 ½ in	General	862	**3G945**

Center 1ARY9

Drive Pins 3AET9

Starrett® WESTWARD® Mitutoyo

Punch Sets

No. of Pieces	Sizes Included	L (in.)	Material	Brand	Mfr. Model	Item No.
Drive Pin						
4	¼ in, 3/16 in, ⅜ in, 5/16 in Pouch	8	Brass with Steel Grip	Starrett	SB248Z	**3AER9**
5	¼ in, ⅛ in, 3/16 in, ⅜ in, 5/16 in Pouch	8	Carbon Tool Steel	Westward	—	**2YNE7**
	¼ in, ⅛ in, 3/16 in, ⅜ in, 5/16 in Pouch	8	Steel	Starrett	S248PC	**2ZVJ6**
	¼ in, ⅛ in, 3/16 in, ⅜ in, 5/16 in Plain Box	8	Steel	Starrett	S248	**2ZVJ7**
	⅛-3/8 in	8	Steel	Mitutoyo	985-118	**4LB27**
8	1/16 in, ¼ in, ⅛ in, 3/16 in, 3/32 in, 5/16 in, 5/32 in, 7/32 in Plastic Box	4	Steel	Starrett	S565WB	**2ZVK5**
	1/16 in, ¼ in, ⅛ in, 3/16 in, 3/32 in, 5/16 in, 5/32 in, 7/32 in Pouch	4	Brass	Starrett	SB565Z	**3AET9**
	1/16-5/16 in	4	Steel	Mitutoyo	985-119	**4LB28**
	1/16-5/16 in	4	Brass	Mitutoyo	985-120	**4LB29**
Center						
5	Sizes 1/16 to 5/32 in, Pouch	3 and 4 in	—	Mitutoyo	985-138	**1ARY9**
	Sizes: 1/16 in, 5/64 in, 3/32 in, ⅛ in, 5/32 in, Plastic Case	3 to 5 in	Steel	Starrett	S117PC	**2ZVF5**
7	Round Plastic Box	3 - 5 in	Tool Steel	Starrett	S264WB	**2ZVJ8**

Shore A 1ARU7

Mitutoyo Starrett®

Durometer Calibration Sets

Rubber durometer test blocks help you to test the operational status of your Shore A or Shore D durometer. Choose a Shore A test block kit to yield hardness values of averaged ranges of 30, 60 and 90. Use a Shore D test block kit to find hardness values in the average ranges of 20, 40 and 80. A set of three rubber test blocks for testing type A hardness values of 27 to 94 includes a certificate.

Range	For Use With	Brand	Mfr. Model	Item No.
Shore A Calibration Block Set				
30, 60, 90	1ARV2, 1ARV3, 1ARV6, 1ZRT4	Mitutoyo	64AAA964	**1ARU7**
27 to 94	Mfr. No. 3805B	Starrett	SRB-3	**2ZUP5**
Shore D Calibration Block Set				
20, 40, 80	1ARV4, 1ARV5, 1ZRT5, 1ZRT6	Mitutoyo	64AAA590	**1ARU6**

4KY26

4KY29

WESTWARD®

Scribers

Point Type	Tip Material	Replaceable Tip	Threaded Points	Overall Length (in.)	Item No.
Machinist					
(1) Straight/(1) 90°	Hardened Steel	No	Yes	9 in	**4KY26**
Pocket					
Straight	Hardened Steel	No	Yes	4 ¾ in	**4KY29**
Straight	Carbide	No	No	5 in	**4KY32**

42W857

42W876

446N38

18F194

2LKP9

Milling and Mill/ Drill Machines

MILLING

Step Pulley—Use belts to manually change speeds. For more information, see Grainger.com®.

Variable Speed—JET models have handwheel adjustment to set speed and internally cooled spindle head. For more information, see Grainger.com®.

CNC Vertical—Feature 3-stage power downfeed with automatic stop, internally cooled spindle head and heavy-duty spindle brake. ACU-RITE MILLPWR® CNC 2- or 3-axis control.

MILL/DRILL MACHINES

Provide accurate milling, drilling, and boring capabilities. Sharp models have a 10" to 20" lathe capacity.

Motor HP	Voltage	Phase	Spindle Speed (rpm)	Spindle to Table	Table Size (in.)	T-Slot Size (in.)	Cross Travel (in.)	Longitudinal Travel (in.)	Brand	Mfr. Model	Item No.
Step Pulley Milling Machines											
1½	115/230V	1	240 - 1550	—	7⅞ x 35¾	3, ⅝	9½	22.25	JET	690036	**42W773**
Knee/Column Milling Machines											
2	230V	3	80 to 5440	17½"	9 x 42	3, ⅝	12½	23.87	JET	690082	**42W857**
Step Pulley Milling Machines											
3	220V	3	80 to 3800	—	10 x 54	⅝	35 7/16	15.75	Baileigh	VM-1054-3	**31XW13**
5	220V	3	80 to 3800	—	12 x 58	⅝	36 39/64	15.75	Baileigh	VM-1258-3	**31XW14**
With X-Axis Powerfeed											
2	115/230V	1	80 to 2720	—	9 x 42	3, ⅝	12½	23.87	JET	690006	**42W772**
Variable Speed Vertical Milling Machines											
2	115/230V	1	60 to 4200	17½"	9 x 49	3, ⅝	12	34.00	JET	690180	**5CEZ4**
3	230V	3	60 to 5000	18¾"	9 x 49	3,5/8	12	36.00	JET Elite	894050	**20UT75**
With X-Axis Powerfeed											
3	230/460V	3	60 to 4500	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894172	**20UT63**
	230V	3	60 to 4500	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894176	**20UT64**
With 2-Axis ACU-RITE 200S											
3	230/460V	3	60 to 4200	17½"	9 x 49	3, ⅝	12	34.00	JET	690202	**42W871**
With 3-Axis ACU-RITE 200S (Quill) DRO											
3	230V	3	60 to 5000	18¾"	9 x 49	3, ⅝	12	36.00	JET Elite	894392	**20UT88**
CNC Vertical Milling Machines											
3-Axis											
3	230/460V	3	60 to 4200	17½"	9 x 49	3,5/8	12	34.00	JET	690948	**42W876**

Swing	Motor HP	Voltage	Phase	Drilling Cap. Steel	End Milling Capacity	Spindle Speed	Spindle Travel	Spindle to Table	Table Work Surface	T-Slots	Cross Travel	Longitudinal Travel	Brand	Item No.
Mill Drill Machines														
10 in	5	220V	3	¾ in	¾ in	60 to 4500	18 in	5 ⅛ in to 23 ⅝ in	10 in x 56 in	⅝"	16 ½ in	36 in	Sharp	**446N40**
	5	220V	3	¾ in	¾ in	70 to 4000	16 in	2 in to 18 in	12 in x 58 in	⅝"	16 in	40 in	Sharp	**446N38**
	5, 7½	220V	3	¾ in	¾ in	120 to 3600	18 in	5 5/16 in to 23 in	11 51/64 in x 51 19/64 in	⅝"	14 13/16 in	37 5/16 in	Sharp	**446N41**
	7½	220V	3	¾ in	¾ in	35 to 1382	18½"	0" a 18 ½"	11 51/64 in x 51 19/64 in	—	14 13/16 in	37 5/16 in	Sharp	**446N39**
	10	220V	3	1 in	¾ in	45 to 1500	20 in	4 in to 24 in	14 29/32 in x 67 in	⅜"	14 29/32 in	39 5/16 in	Sharp	**446N42**
	15	220V	3	1 in	¾ in	45 to 1500	22 in	4 in to 26 in	17 19/32 in x 74 51/64 in	⅜"	17 39/64 in	47 ¼ in	Sharp	**446N43**
14 ½ in	1	115/230V	1	1 in	½ in	110 to 2580	3½"	15"	7½ in x 23 in	—	6 in	14 in	JET	**42W854**
15 ⅞ in	2	120/240V	1	1 ¼ in	¾ in	150 to 3000	5"	18"	9½ x 32¼ in	—	6 ½ in	20 ½ in	JET	**18F194**
16 in	1½	120/240V	1	1 ½ in	¾ in	150 to 3000	5"	17"	9½ in x 32 in	—	7 in	23 in	Dayton	**2LKP9**
	1½	120/240V	1	1 ½ in	¾ in	150 to 3000	5"	17"	9½ in x 32 in	—	7 in	23 in	Dayton	**2LKR1** *

** With power feed table.*

Benchtop and Floor Stand Drill Presses for Metal

These stationary drilling machines typically spin bits at low speeds with high torque. They maintain consistent alignment to create more accurate holes than handheld drills. Models with geared head drive eliminate belt slippage and the need to replace belts in belt drive drill presses.

Benchtop Drill Presses with Manual Downfeed—Mount to a work surface to save floor space and are more compact with a shorter spindle travel than floor-stand drill presses. They require hand-cranking to lower the bit so it can drill holes in metal workpieces.

Floor Stand Drill Presses with Manual Downfeed—Provide a long spindle travel to drill through thicker metal workpieces and create larger-diameter holes than benchtop drill presses. They require hand-cranking to lower the bit so it can drill holes in metal workpieces.

Floor Stand Drill Presses with Power Downfeed—The downfeed automatically lowers the drilling head at a smooth, consistent rate to drill holes. Models can drill more uniform holes than manual-downfeed presses.

Benchtop Manual Downfeed 54ZW29

Floor Stand Manual Downfeed 18F196

Motor Voltage	Swing	Spindle-to-Column Distance	Horsepower	Spindle Speed Range (RPM)	Current	Drilling Capacity in Steel	Drill Press Application	Brand	Item No.
Benchtop Drill Presses with Manual Downfeed									
Belt Drive Type, Fixed Speed Control									
115/230V AC ; Single-Phase	15 in	7 ½ in	½	138 – 3,476	8.6/4.3 A	½ in	Boring, Countersinking, Drilling, Reaming	Dayton	**54ZW29**
115/230V AC ; Single-Phase	15 in	7 ½ in	¾	200 – 3,630	9/4.5 A	½ in	Drilling	Jet	**3WRP4**
115V AC ; Single-Phase	13 in	6 ½ in	1	420 – 4,800	15 A	1 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**53UG96**
115V AC ; Single-Phase	14 ⅛ in	7 1⁄16 in	½	240 – 3,400	7 A	⅝ in	Drilling	Dake Corporation	**40F109**
115V AC ; Single-Phase	15 ¾ in	7 ⅞ in	1	145 – 4,800	15 A	1 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**53UG97**
Belt Drive Type, Variable Speed Control									
115V AC ; Single-Phase	14 ⅛ in	7 1⁄16 in	½	545 – 4,000	20 A	⅝ in	Drilling	Dake Corporation	**35GW72**
Geared Head Drive Type, Fixed Speed Control									
230V AC ; Three-Phase	18 in	9 in	2	90 – 3,480	10 A	1 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**53UH01**
Geared Head Drive Type, Variable Speed Control									
230V AC ; Single-Phase	20 in	10 in	¾ to 1	130 – 3,480	11 A	1 ¼ in	Drilling	Jet	**42W835**
Floor Stand Drill Presses with Manual Downfeed									
Belt Drive Type, Fixed Speed Control									
115/230V AC ; Single-Phase	15 in	7 ½ in	¾	200 – 3,630	9/4.5 A	½ in	Drilling	Jet	**3WRP3**
115/230V AC ; Single-Phase	16 ⅞ in	8 ⅜ in	1	350 – 2,800	9 A	⅝ in	Drilling	Jet	**49LX95**
115/230V AC ; Single-Phase	17 in	8 ½	1	138 – 3,476	10.2/5.1 A	½ in	Boring, Countersinking, Drilling, Reaming	Dayton	**54ZW31**
115/230V AC ; Single-Phase	20 in	10 in	1	140 – 2,600	16/8 A	1 in	Boring, Countersinking, Drilling, Reaming	Dayton	**49G986**
115/230V AC ; Single-Phase	20 in	10 in	1	150 – 4,200	9/4.5 A	⅝ in	Drilling	Jet	**3WRP5**
115/230V AC ; Single-Phase	20 in	10 in	1 ½	120 – 3,605	14.2/7.1 A	¾ in	Boring, Countersinking, Drilling, Reaming	Dayton	**54ZW32**
115/230V AC ; Single-Phase	20 in	10 in	1 ½	150 – 4,200	18/9 A	⅝ in	Drilling	Jet	**18F196**
115/230V AC ; Single-Phase	21 ⅞ in	10 ⅞ in	1 ½	175 – 3,050	7.6 A	1 in	Drilling	Jet	**49LX96**
115V AC ; Single-Phase	15 in	7 ½ in	1	240 – 3,200	10 A	⅝ in	Countersinking, Drilling, Reaming	Dayton	**400H52**
115V AC ; Single-Phase	15 ¾ in	8 in	1	145 – 4,800	15 A	1 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**53UG98**
115V AC ; Single-Phase	17 in	8 ½ in	¾	200 – 3,630	10 A	½ in	Countersinking, Drilling, Reaming	Dayton	**467L86**
115V AC ; Single-Phase	18 in	7 1⁄16 in	2	270 – 2,000	14 A	⅝ in	Drilling	Dake Corporation	**40F113**
Belt Drive Type, Variable Speed Control									
115/230V AC ; Single-Phase	15 in	15 in	1	375 – 5,000	14 A	½ in	Drilling	Jet	**42W844**
115V AC ; Single-Phase	18 in	9 in	2	46 – 3,473	20 A	1 ¼ in	Drilling, Tapping	Dake Corporation	**35GW74**
230V AC ; Three-Phase	20 in	10 7⁄16 in	2	150 – 2,000	7/6.6 A	1 ⅜ in	Drilling, Tapping	Jet	**53ZC51**
460V AC ; Three-Phase	20 in	10 7⁄16 in	2	245 – 2,000	9.2 A	1 ⅜ in	Drilling, Tapping	Jet	**52XJ01**
Geared Head Drive Type, Variable Speed Control									
115V AC ; Single-Phase	10 ⅜ in	10 in	1 ½	125 – 1,740	14 A	1 in	Boring, Countersinking, Drilling, Milling, Reaming, Tapping	Baileigh Industrial	**31XU85**
Spline Drive Type, Variable Speed Control									
115/230V AC ; Single-Phase	15 in	7 ½ in	1	400 – 5,000	16/8 A	½ in	Drilling	Jet	**3WRN7**
Floor Stand Drill Presses with Power Downfeed									
Belt Drive Type, Fixed Speed Control									
115V AC ; Single-Phase	16 in	8 in	1	262 – 2,920	11 A	1 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**499F46**
Belt Drive Type, Variable Speed Control									
115V AC ; Single-Phase	18 in	9 in	1 ½	68 – 1,380	20 A	1 in	Drilling, Tapping	Dake Corporation	**35GW75**
230V AC ; Single-Phase	20 ⅞ in	10 7⁄16 in	2	85 – 2,000	14 A	1 ½ in	Boring, Countersinking, Drilling, Milling, Reaming, Tapping	Baileigh Industrial	**15V796**
230V AC ; Three-Phase	20 in	10 7⁄16 in	2	225 – 2,000	9.2 A	2 in	Drilling	Jet	**52XJ02**
460V AC ; Three-Phase	20 in	10 7⁄16 in	2	225 – 2,000	9.2 A	2 in	Drilling	Jet	**52XJ03**
Geared Head Drive Type, Fixed Speed Control									
230V AC ; Three-Phase	20 in	10 in	2	60 – 3,000	3.2/3.2 A	1 ¼ in	Drilling	Jet	**18F199**
460V AC ; Three-Phase	32 in	16 ½ in	4 to 5	54 – 2,400	8 A	2 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**467L05**
Geared Head Drive Type, Variable Speed Control									
230V AC ; Single-Phase	22 in	11 in	3	80 – 3,000	10 A	1 5⁄32 in	Boring, Countersinking, Drilling, Reaming, Tapping	Dayton	**53UH05**

Benchtop and Floor Stand Radial Drill Presses for Metal

Radial drill presses mount their drilling head on an arm that extends from the support column and allows vertical and horizontal positioning of the head. The drilling head moves up and down with the arm, and it can slide along the length of the arm to accommodate wide workpieces. They maintain consistent alignment to create more accurate holes than handheld drills. Models with a geared head drive eliminate belt slippage and the need to replace belts in belt drive drill presses.

Benchtop Radial Drill Presses with Manual Downfeed—Create holes in thinner workpieces and mount to work surfaces to save floor space. They are more compact with a shorter spindle travel than floor-stand drill presses, and their manual downfeed requires hand-cranking to lower the drill bit into workpieces.

Floor Stand Radial Drill Presses with Manual Downfeed—Have a long spindle travel to drill through thicker metal workpieces and create larger-diameter holes than benchtop drill presses. Their manual downfeed requires hand-cranking to lower the drill bit into workpieces.

Floor Stand Radial Drill Presses with Power Downfeed—Provide a long spindle travel to drill through thicker metal workpieces and create larger-diameter holes than benchtop drill presses. Their power downfeed automatically lowers the drilling head at a smooth, consistent rate to drill more uniform and accurate holes than manual-downfeed presses.

Benchtop Manual Downfeed 40PM15

Floor Stand Manual Downfeed 42W828

Floor Stand Power Downfeed 36HZ43

Motor Voltage	Swing	Spindle-to-Column Distance	Horsepower	Spindle Speed Range (RPM)	Current	Drilling Capacity in Steel	Drill Press Application	Brand	Item No.
Benchtop Radial Drill Presses with Manual Downfeed									
Belt Drive Type, Fixed Speed Control									
115V AC ; Single-Phase	33 in	16 ½ in	½	550 RPM – 3,300 RPM	5.5 A	⅜ in	Countersinking, Drilling, Reaming	Dayton	**40PM15**
Floor Stand Radial Drill Presses with Manual Downfeed									
115V AC ; Single-Phase	33 in	16 ½ in	½	550 RPM – 3,300 RPM	5.5 A	⅜ in	Countersinking, Drilling, Reaming	Dayton	**40PM17**
Geared Head Drive Type, Variable Speed Control									
230/460V AC ; Three-Phase	5 ½ in	8 ⅝ in to 29 ½ in	3	88 RPM – 1,500 RPM	8.2/4.1 A	1 ½ in	Drilling, Tapping	Jet	**42W834**
230/460V AC ; Three-Phase	5 ¼ in	13 ⅜ in to 62 ¼ in	7 ½	40 RPM – 1,920 RPM	19/9.5 A	2 ½ in	Drilling, Tapping	Jet	**42W828**
230/460V AC ; Three-Phase	6 ⅜ in	13 ⅜ in to 46 in	2 ½ to 5	44 RPM – 1,500 RPM	12.9/17.6 A	1 ⅞ in	Drilling, Tapping	Jet	**25CH33**
Floor Stand Radial Drill Presses with Power Downfeed									
Geared Head Drive Type, Variable Speed Control									
230V AC ; Three-Phase	—	7 ¾ in to 39 ¼ in	4	71 RPM – 1,800 RPM	11.5 A	1 ½ in	Boring, Countersinking, Drilling, Milling, Reaming, Tapping	Baileigh Industrial	**36HZ42**
230V AC ; Three-Phase	—	13 ¾ in to 63 in	5 ¼	25 RPM – 2,000 RPM	16 A	2 in	Boring, Countersinking, Drilling, Milling, Reaming, Tapping	Baileigh Industrial	**36HZ43**

Benchtop
48WE86

Floor Stand
36HZ85

Dayton · JET · BAILEIGH · POWERMATIC

Benchtop and Floor Stand Drill Presses for Wood

Drilling machines are stationary and normally spin bits at high speeds with low torque. They support work on the table below the drill head and maintain consistent alignment to create more accurate holes than handheld drills. Models with a direct drive eliminate belt slippage and the need to replace belts in belt drive drill presses.

Benchtop Drill Presses for Wood—Create holes in thinner wood workpieces and mount to a work surface to save floor space. They are more compact with a shorter spindle travel than floor-stand drill presses, and their manual downfeed requires hand-cranking to lower the drill bit into workpieces. The motor uses belt-driven pulleys to transmit torque to the drilling spindle.

Floor Stand Drill Presses for Wood—Provide long spindle travel to drill through thicker wood workpieces and make larger-diameter holes than benchtop drill presses. Their manual downfeed requires hand-cranking to lower the drill bit into workpieces, and their motor uses belt-driven pulleys to transmit torque to the drilling spindle.

Motor Voltage	Swing	Spindle-to-Column Distance	Horsepower	Spindle Speed Range (RPM)	Current	Drilling Capacity in Steel	Drill Press Application	Brand	Item No.
Benchtop Drill Presses for Wood									
Belt Drive Type, Fixed Speed Control									
115V AC ; Single-Phase	8 in	4 in	⅓	750 RPM – 3,200 RPM	2.3 A	½ in	Countersinking, Drilling, Reaming	Dayton	**40PM08**
	10 in	5 in	⅓	650 RPM – 3,070 RPM	4.1 A	⅜ in		Dayton	**16N196**
	13 in	6 ½ in	⅓	260 RPM – 4,220 RPM	4.9 A	⅜ in	Boring, Countersinking, Drilling, Reaming	Dayton	**54ZW27**
115/230V AC ; Single-Phase	15 in	7 ½ in	¾	210 RPM – 3,500 RPM	9 A	½ in	Drilling	Jet	**48WE86**
Belt Drive Type, Variable Speed Control									
115V AC ; Single-Phase	12 in	10 ½ in	½	530 RPM – 3,100 RPM	5 A	½ in	Drilling	Jet	**436C76**
Direct Drive Type, Variable Speed Control									
115V AC ; Single-Phase	9 ⅝ in	4 13/16 in	¼	2,000 RPM – 12,000 RPM	5 A	⅛ in	Drilling	Dayton	**2LKU8**
Floor Stand Drill Presses for Wood									
Belt Drive Type, Fixed Speed Control									
115/230V AC ; Single-Phase	16 ½ in	—	¾	200 RPM – 3,630 RPM	9/4.5 A	½ in	Drilling	Jet	**25CH39**
	16 ⅞ in	—	¾	210 RPM – 3,500 RPM	—	½ in		Jet	**45CA74**
Belt Drive Type, Variable Speed Control									
115V AC ; Single-Phase	15 in	—	1	400 RPM – 5,000 RPM	20 A	—	Drilling	Baileigh Industrial	**36HZ85**
115/230V AC ; Single-Phase	18 in	—	1	250 RPM – 3,000 RPM	15/7.5 A	½ in		Powermatic	**36VE10**

Drill Press
6Z847

Angle
6Z844

Cross Slide
3W766

Milling Machine
4KXE7

Milling Machine
24W155

Toolmaker's
19F401

Self-Centering
4CPF5

Dayton · PALMGREN · WILTON · TE-CO · Starrett

Machining Vises

Description	Jaw Width (in.)	Jaw Opening (in.)	Brand	Item No.
Angle				
2-Way Angular Machine w/Swivel Base	4 in	4 in	Dayton	**4CPF1**
	6 in	6 in	Dayton	**4CPF2**
3-Way Tilting Machine w/Swivel Base	4 in	4 in	Dayton	**4CPF3**
Angle, Fixed Base	2 7/16 in	2 ½ in	Palmgren	**4KXE2**
Angle w/Angle Base	6 in	6 ¾ in	Dayton	**4TK08**
Angle w/Trunnion Base	4 in	4 in	Dayton	**6Z844**
Cross Slide				
Cross	3 in	3 in	Dayton	**4YG28**
	6 in	6 in	Dayton	**6Z848**
	8 in	8 in	Dayton	**3W766**
Cross Slide	3 in	3 in	Palmgren	**4KXF3**
	4 in	4 in	Wilton	**41D448**
	6 in	6 in	Wilton	**41D450**
	8 in	8 in	Wilton	**41D451**
Drill Press				
3-Way Drill Press	4 in	3 ½ in	Dayton	**4CPG1**
Drill Press	1 ½ in	1 ½ in	Palmgren	**4KXD2**
	2 7/16 in	2 ½ in	Palmgren	**4KXD4**
	2 7/16 in	3 in	Palmgren	**4KXD3**
	3 in	3 in	Palmgren	**4KXD5**
	4 in	4 in	Dayton	**3W761**
	4 in	4 in	Palmgren	**4KXD6**
	6 in	6 in	Dayton	**4TK04**
	6 in	6 in	Palmgren	**4KXD7**
Quick-Action Drill Press	4 ½ in	4 ¾ in	Dayton	**4CPG2**
	6 in	6 ¾ in	Dayton	**4CPG3**
Quick-Release	3 in	3 in	Dayton	**4TK06**
	4 in	4 in	Dayton	**4TK05**
	8 in	8 in	Dayton	**4YG29**
Standard	4 in	4 ½ in	Wilton	**24W025**
Standard, Low Profile	6 in	6 in	Wilton	**41D445**
	8 in	8 in	Wilton	**41D446**
Standard Drill	4 in	4 in	Dayton	**6Z846**
	6 in	6 in	Dayton	**6Z847**
	8 in	8 in	Dayton	**4TK03**
Milling Machine				
Cast Iron Milling Machine w/Swivel Base	6 in	6 in	Dayton	**3W765**
Fixed Base	5 47/50 in	9 in	Te-Co	**6GJP4**
Milling Machine	6 in	8 ¾ in	Palmgren	**19F396**
Milling Machine w/Swivel Base	4 in	4 in	Palmgren	**4KXE7**
	6 in	6 in	Dayton	**4CPE9**
	6 in	6 in	Palmgren	**4KXE9**
	6 in	7 ½ in	Dayton	**3W764**
Verti-Lock Machine w/Fixed Base	5 in	4 ½ in	Wilton	**24W068**
	6 in	7 ½ in	Wilton	**24W155**
	8 in	7 ½ in	Wilton	**24W067**
Self-Centering				
Self-Centering w/Swivel Base	4 in	4 in	Dayton	**4CPF5**
	6 in	6 in	Dayton	**4CPF6**
Toolmaker's				
Toolmaker's Machine	⅝ in	2 in	Starrett	**4CEN3**
	2 ½ in	2 ⅞ in	Dayton	**16Y478**
	2 in	2 ½ in	Palmgren	**19F401**
	4 in	4 59/64 in	Palmgren	**19F402**
Toolmaker's Screwless	2 in	2 ½ in	Dayton	**16Y479**
	2 ⅞ in	4 in	Dayton	**16Y480**

Description	For Use With	Item No.	Pkg. Qty.
Dayton Replacement Jaws			
4 in	4CPG4	**4CPG4**	2
4 in	4CPG9	**4CPG9**	2
Dayton Handles			
4 in	4CPH1	**4CPH1**	1
6 in	4CPH2	**4CPH2**	1

Milling Accessories

Dayton

- For Starter Kit contents, see Grainger.com®

Description	Item No.
Starter Kits	
29-Pc. Milling Machine Starter Kit	**4LEX9**
99-Pc. Milling Machine Starter Kit	**4LEY1**
End Mill Kits	
10-Pc. HSS End Mill Set, Includes (10) 4-Flute Single End Mills and Case, 3/16" To ¾" Cap.	**16N203**
20-Pc. HSS End Mill Set, Includes (10) 2-Flute Single End Mills, (10) 4-Flute Single End Mills and Case, 3/16" To ¾" Cap.	**16N204**
Collet Sets	
12-Pc. ER22-R8 Collet Set, 3/32" to ¾"	**11A471**
12-Pc. R8 Collet Set, ⅛", 3/16", ¼", 5/16", ⅜", 7/16", ½", 9/16", ⅝", 11/16", ¾" Cap.	**5PZP0**
Milling Accessories	
5-Axis Multi-Position Work Stop; Fits ⅝" Table Slots	**4LEX8**
Polycarbonate Drill Press Guard	**36FX30**
Machine Tool Coolant Pump	**11A473**

Starter Kit 4LEX9

52XJ11

42W780

20UT58

42W791

446N50

Lathes

JET · ELITE · SHARP

Swing Over Bed (in.)	Distance Between Centers (in.)	Swing In Gap (in.)	Compound Travel (in.)	Carriage Travel (in.)	Cross Travel (in.)	Spindle Bore (in.)	No. of Spindle Speeds	Spindle Speed (rpm)	Tailstock Travel (in.)	Tailstock Taper	Longitudinal Feed Rates	Motor HP	Phase	Voltage	Brand	Mfr. Model	Item No.
Wood Lathes																	
18½	40	—	—	—	—	⅝	Variable	40-3200	—	—	—	2	Three	230/460V AC	JET	JWL-1840EVS	**52XJ11**
Bench Lathes																	
13	40	18¾	2 11/16	35	6 5/16	1⅜	12	60-1240	3¾	MT3	38	2	Single	230V AC	JET	321102AK	**42W780** *
Engine Lathes, Geared Head																	
12	36	17½	3½	33	6¾	1 9/16	Variable	40-2000	4	MT3	0.0016-0.046	2	Single, Three	230V AC	JET Elite	892305	**20UT58**
Large Spindle Bore Lathes																	
14	40	23⅝	5⅛	36 9/16"	9	3⅛	12	42-1800	5	MT3	122	7½	Three	230V AC	JET	321469	**42W791** ‡
18	80	27½	5⅛	74 5/16"	9	3⅛	12	25-1800	5	MT3	122	7½	Three	230/460V AC	JET	321970	**42W810**
26	80	34	5½	72½	12 3/32	4⅛	12	36-1600	6	MT3	65	10	Three	230V AC	JET	321860	**42W815**
Metal Turning Lathes																	
11	18	9	3	18	6	1⅛	Variable	130-4000	3¾	MT2	0.3125-7	5	Three	220V AC	Sharp	1118H	**446N50**
16	40	24⅜	4⅞	40	8 45/64	3 9/64	12	20-2000	5	MT4	0.002-0.032	7½	Three	220/440V AC	Sharp	1640L	**446N51**
	40	24⅜	4⅞	60	8 45/64	3 9/64	Variable	20-2000	5	MT4	0.002-0.032	7½	Three	220V AC	Sharp	1640LV	**446N52**
	60	24⅜	4⅞	60	8 45/64	3 9/64	12	20-2000	5	MT4	0.002-0.032	7½	Three	220/440V AC	Sharp	1660L	**446N53**
	60	24⅜	4⅞	60	8 45/64	3 9/64	Variable	20-2000	5	MT4	0.002-0.032	7½	Three	220V AC	Sharp	1660LV	**446N54**
18½	60	27¼	5¼	60	9⅞	3 9/64	12	40-2000	5	MT5	0.002-0.032	7½	Three	220/440V AC	Sharp	1860L	**446N55**
	60	27¼	5¼	80	9⅞	3 9/64	Variable	20-2000	5	MT6	0.002-0.032	7½	Three	220V AC	Sharp	1860LV	**446N56**
	80	27¼	5¼	80	9⅞	3 9/64	12	40-2000	5	MT7	0.002-0.032	7½	Three	220/440V AC	Sharp	1880L	**446N57**
	80	27¼	5¼	80	9⅞	3 9/64	Variable	20-2000	5	MT8	0.002-0.032	7½	Three	220V AC	Sharp	1880LV	**446N58**
22	40	31	7¾	40	14¾	4 47/64	12	10-1000	6½	MT9	0.002-0.032	15	Three	220V AC	Sharp	2240B	**446N59**
	80	31	7¾	80	14¾	4 47/64	12	10-1000	6½	MT10	0.002-0.032	15	Three	220V AC	Sharp	2280B	**446N60**
	100	31	7¾	100	14¾	4 47/64	12	10-1000	6½	MT11	0.002-0.032	15	Three	220V AC	Sharp	22100B	**446N61**
	120	31	7¾	120	14¾	4 47/64	12	10-1000	6½	MT5	0.002-0.032	15	Three	220V AC	Sharp	22120B	**446N62**
	160	31	7¾	160	14¾	4 47/64	12	10-1000	6½	MT13	0.002-0.032	15	Three	220V AC	Sharp	22160B	**446N63**
26	40	35	7¾	40	14¾	4 47/64	12	10-1000	6½	MT14	0.002-0.032	15	Three	220V AC	Sharp	2640B	**446N64**
	80	35	7¾	80	14¾	4 47/64	12	10-1000	6½	MT15	0.002-0.032	15	Three	220V AC	Sharp	2680B	**446N65**
	100	35	7¾	100	14¾	4 47/64	12	10-1000	6½	MT16	0.002-0.032	15	Three	220V AC	Sharp	26100B	**446N66**
	120	35	7¾	120	14¾	4 47/64	12	10-1000	6½	MT17	0.002-0.032	15	Three	220V AC	Sharp	26120B	**446N67**
	160	35	7¾	160	14¾	4 47/64	12	10-1000	6½	MT18	0.002-0.032	15	Three	220V AC	Sharp	26160B	**446N68**
30	80	40	7¾	80	15 13/16	4½	12	11-1000	6½	MT19	0.002-0.032	15	Three	220V AC	Sharp	3080B	**446N69**
	100	40	7¾	100	15 13/16	4½	12	13-1000	6½	MT20	0.002-0.032	15	Three	220V AC	Sharp	30100B	**446N70**
	120	40	7¾	120	15 13/16	4½	12	15-1000	6½	MT21	0.002-0.032	15	Three	220V AC	Sharp	30120B	**446N71**
	160	40	7¾	160	15 13/16	4½	12	17-1000	6½	MT22	0.002-0.032	15	Three	220V AC	Sharp	30160B	**446N72**

** With stand. ‡ With Acu-Rite 200S 2-Axis DRO*

How to Select a Live Center

1. Determine machine's taper.
2. Determine the weight of the workpiece, while taking cutting forces into consideration. Weight of workpiece noted next to each item is the maximum weight the live center can safely carry.
3. Determine required operating speed.
4. Determine point style that best suits application. Standard points are best when rigidity and weight requirements are most important. Longer points offer maximum tool clearance when needed.

Dual-Bearing Bull Head 41LK14

Quad-Bearing CNC Carbide Point 41LJ99

Tri-Bearing Design CNC Point 41LJ92

Dead Center 41LJ59

Live & Dead Centers

Bull Head Point centers are shorter than pipe heads, reducing interference in blind center hole applications and ensuring that the load is positioned over the bearings. Tri-Bearing design enables both high rpms and good load ratings. Quad-Bearing centers (and 41LJ90) feature Royal Roto-Shield™ technology with a live center point machined from a solid bar incorporating a specially-shaped steel coolant slinger.

Point Style	Morse Taper	Head Dia.	Head Length	Point Dia.	Max. Workpiece Weight	Max. Speed	Thrust Load	Item No.
Live Center								
Dual-Bearing Design								
Bull Head	4 MT	4.1500 in	3.0100 in	1 ¼ in	860 lb	4,500 RPM	2,550 lb	**41LK13**
	5 MT	4.1500 in	3.0100 in	1 ¼ in	860 lb	4,500 RPM	2,550 lb	**41LK14**
	5 MT	5.1500 in	3.1700 in	2 in	1,145 lb	4,000 RPM	3,450 lb	**41LK16**
	5 MT	5.1500 in	3.6000 in	2 ½ in	1,450 lb	3,500 RPM	4,500 lb	**41LK17**
Standard Point	3 MT	2.3800 in	2.0700 in	1 in	500 lb	5,000 RPM	1,140 lb	**41LK19**
	4 MT	3½ in	2.6400 in	1 ½ in	1,070 lb	3,500 RPM	1,810 lb	**41LK20**
Quad-Bearing Design								
CNC Carbide Point	4 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	525 lb	12,000 RPM	1,380 lb	**41LJ99**
	5 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	525 lb	12,000 RPM	1,380 lb	**41LK01**
CNC Point	2 MT	1.7000 in	2.1200 in	⅜ in	465 lb	6,000 RPM	1,270 lb	**41LJ83**
	3 MT	1.7000 in	2.1200 in	⅜ in	465 lb	6,000 RPM	1,270 lb	**41LJ84**
	4 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	1,230 lb	5,000 RPM	2,150 lb	**41LJ85**
	4 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	525 lb	12,000 RPM	1,380 lb	**41LJ97**
	5 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	1,230 lb	5,000 RPM	2,150 lb	**41LJ86**
	5 MT	2²⁹⁄₆₄ in	2.7800 in	½ in	525 lb	12,000 RPM	1,380 lb	**41LJ98**
Standard Point	3 MT	1.7000 in	2.1200 in	⅞ in	885 lb	6,000 RPM	1,270 lb	**41LJ78**
	4 MT	2²⁹⁄₆₄ in	2.7800 in	1 ¼ in	2,240 lb	5,000 RPM	2,150 lb	**41LJ79**
	5 MT	3.8200 in	3.8900 in	2 in	5,240 lb	3,000 RPM	5,300 lb	**41LJ81**
	5 MT	2²⁹⁄₆₄ in	2.7800 in	1 ¼ in	2,240 lb	5,000 RPM	2,150 lb	**41LJ80**
	6 MT	3.8200 in	3.8900 in	2 in	5,240 lb	3,000 RPM	5,300 lb	**41LJ82**
Tri-Bearing Design								
CNC Point	2 MT	1¾ in	1.4700 in	⅜ in	375 lb	6,000 RPM	2,360 lb	**41LJ92**
	3 MT	2.3300 in	1¾ in	⅜ in	740 lb	5,000 RPM	3,900 lb	**41LJ93**
	3 MT	¹⁵⁄₁₆ in	—	¼ in	260 lb	5,000 RPM	315 lb	**41LK04**
	4 MT	1.2310 in	—	⅜ in	580 lb	4,500 RPM	435 lb	**41LK05**
	4 MT	2.6800 in	1.9800 in	½ in	1,120 lb	4,500 RPM	4,050 lb	**41LJ94**
	5 MT	3.4500 in	2.8100 in	½ in	1,930 lb	3,500 RPM	5,700 lb	**41LJ95**
	6 MT	4 in	3.1500 in	¾ in	2,420 lb	3,500 RPM	6,000 lb	**41LJ96**

Point Style	Morse Taper	Head Dia.	Head Length	Point Dia.	Max. Workpiece Weight	Max. Speed	Thrust Load	Item No.
Standard Point	2 MT	1.6800 in	1.5600 in	¾ in	390 lb	5,000 RPM	3,730 lb	**41LK09**
	2 MT	1¾ in	1.4700 in	⅞ in	725 lb	6,000 RPM	2,360 lb	**41LJ87**
	3 MT	1.6800 in	1.5600 in	¾ in	390 lb	5,000 RPM	3,730 lb	**41LK10**
	3 MT	2.3300 in	1¾ in	1 in	970 lb	5,000 RPM	3,900 lb	**41LJ88**
	3 MT	¹⁵⁄₁₆ in	—	³⁵⁄₆₄ in	940 lb	5,000 RPM	315 lb	**41LK02**
	4 MT	1.2310 in	—	⅝ in	1,400 lb	4,500 RPM	435 lb	**41LK03**
	4 MT	2.6800 in	1.9800 in	1 ¼ in	1,720 lb	4,500 RPM	4,050 lb	**41LJ89**
	4 MT	3.3800 in	3.1500 in	¾ in	1,165 lb	3,500 RPM	5,700 lb	**41LK07**
	4 MT	2²⁹⁄₆₄ in	2.0300 in	⅛ in	750 lb	4,500 RPM	4,990 lb	**41LK11**
	4 MT	2½ in	2.6000 in	⅝ in	685 lb	4,000 RPM	5,000 lb	**41LK06**
	5 MT	3.3800 in	3.1500 in	¾ in	1,165 lb	3,500 RPM	5,700 lb	**41LK08**
	5 MT	3.4500 in	1.8400 in	1 ½ in	3,260 lb	3,500 RPM	5,700 lb	**41LJ90**
	5 MT	2²⁹⁄₆₄ in	2.0300 in	⅛ in	750 lb	4,500 RPM	4,990 lb	**41LK12**
	6 MT	4 in	2.3100 in	2 in	4,080 lb	3,500 RPM	6,000 lb	**41LJ91**

Point Type	Morse Taper	Head Dia.	Head Length	Point Dia.	Item No.
Dead Center					
Carbide Threaded Point	3 MT	0.9380 in	—	⅜ in	**41LJ72**
	4 MT	1.2310 in	—	½ in	**41LJ73**
	5 MT	1.7480 in	—	½ in	**41LJ74**
Full Carbide Point	2 MT	0.7000 in	1 ⅜ in	⅜ in	**41LJ64**
	3 MT	0.9380 in	1 ¹¹⁄₁₆ in	½ in	**41LJ65**
	4 MT	1.2310 in	2 ¼ in	½ in	**41LJ66**
	5 MT	1.7480 in	2 ¾ in	⅝ in	**41LJ67**
Full Point	2 MT	0.7000 in	1 ⅜ in	⅜ in	**41LJ59**
	3 MT	0.9380 in	1 ¹¹⁄₁₆ in	½ in	**41LJ60**
	4 MT	1.2310 in	2 ¼ in	½ in	**41LJ61**
	5 MT	1.7480 in	2 ¾ in	⅝ in	**41LJ62**
Threaded Point	3 MT	0.9380 in	—	⅜ in	**41LJ69**
	4 MT	1.2310 in	—	½ in	**41LJ70**
	5 MT	1.7480 in	—	½ in	**41LJ71**

Mitering 2LKT4

Non-Mitering 446N83

Manual Horizontal Band Saws

Cut metal, pipe, channel, and conduit. **Mitering band saws** have a pivoting head to make mitered cuts in addition to straight cuts. **Non-mitering band saws** make straight downward cuts. They provide better precision and repeatability when making straight cuts than mitering saws that have a pivoting head.

Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Miter Angle Range	Current	Phase	Brand	Item No.
Mitering Band Saws							
110/220V AC							
7 in x 10 ³⁄₁₆ in	7 in	125 to 270	0° to 45°	—	1	Baileigh Industrial	**31XU56**
110V AC							
5 ⁵⁄₁₆ in x 5 in	5 in	75 to 246	0° to 60°	10.0 A	1	Baileigh Industrial	**55KM80**
5 in x 6 in	5 in	78 to 200	45° Left to 60° Right	—	1	Baileigh Industrial	**31XU39**
8 ¼ in x 6 ¹¹⁄₁₆ in	7 in	66 to 280	45° Left to 60° Right	—	1	Baileigh Industrial	**31XU43**
10 ¼ in x 4 ⁵⁄₁₆ in	8 ⅞ in	66 to 280	0° to 60°	—	1	Baileigh Industrial	**31XU46**
115/230V AC							
2 in x 16 in, 8 ½ in x 14 in	9 in	82 to 235	45° , 90°	18.0/9.0 A	1	Jet	**18F211**
5 ½ in x 6 ½ in	5 in	80 to 200	0°	—	1	Dayton	**2LKT4**
6 in x 16 in	9 in	53 to 257	45° , 90°	—	1	Jet Elite	**20UT93**
9 in x 13 in	9 in	82 to 235	45° , 90°	18.0/9.0 A	1	Jet	**3WRL8**
10 in x 10 in, 7 in x 16 in	10 in	100 to 350	45° , 90°	18.0/9.0 A	1	Jet	**3WRN6**
13 in x 5 ¼ in, 13 ¼ in x 2 in	8 in	82 to 310	45° , 90°	18.0/9.0A	1	Jet Elite	**20UT91**
14 in x 8 in, 2 in x 14 in	8 in	135 to 256	45° , 90°	—	1	Jet	**42W916**
115V AC							
7 ½ in x 5 in	5 in	80 to 200	45° , 90°	9.0/4.5 A	1	Jet	**42W919**
7 ½ in x 5 in	5 in	85 to 200	45° , 90°	9.0/4.5 A	1	Jet	**3WRN5**
120V							
7 in x 10 ³⁄₁₆ in	7 in	125 to 270	0° to 45°	—	1	Baileigh Industrial	**31XU57**
220V AC							
8 ¹³⁄₁₆ in x 13 ½ in	8 ¹³⁄₁₆ in	82 to 235	0° to 45°	—	1	Baileigh Industrial	**31XU59**
9 ¹³⁄₁₆ in x 16 ⁵⁄₁₆ in	10 ⅜ in	66 to 233	0° to 45°	—	1	Baileigh Industrial	**31XU49**
10 ⁹⁄₁₆ in x 4 ⁵⁄₁₆ in	9 ⅜ in	66 to 280	45° Left to 60° Right	—	1	Baileigh Industrial	**31XU47**
13 ¹³⁄₁₆ in x 8 ¹¹⁄₁₆ in	10 ⅝ in	66 to 280	45° Left to 60° Right	30.0 A	1	Baileigh Industrial	**15V791**
13 in x 18 in	13 in	60 to 306	45° Left to 60° Right	—	3	Baileigh Industrial	**31XU41**
13 in x 18 ⅞ in	13 in	82 to 270	0° to 45°	—	1	Baileigh Industrial	**31XU51**
230V AC							
10 in x 16 in, 6 ½ in x 18 in	10 in	82 to 330	45° , 90°	15.0 A	1	Jet	**18F213**
18 in x 3 ½ in	10 in	53 to 257	45° , 90°	—	1	Jet Elite	**20UT92**
460V AC							
10 in x 10 in, 7 in x 16 in	10 in	100 to 350	45° , 90°	4.0 A	3	Jet	**42W922**
Non-Mitering Band Saws							
220V AC							
7 in x 11 ⁷⁄₁₆ in	8 in	59 to 260	0°	3.4 A	3	Sharp	**446N83**
9 in x 11 ¹³⁄₁₆ in	10 in	75 to 305	0°	6.8 A	3	Sharp	**446N84**

Semi-Automatic Horizontal Band Saws

A tool head on these saws automatically cuts metal after the operator manually positions and clamps the workpiece in place. Semi-automatic saws help prevent fatigue and speed operations when the same cut is made repeatedly. These saws are used in small production facilities where similar materials are cut and settings don't need to be changed regularly.

Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Miter Angle Range	Current	Phase	Brand	Item No.
Mitering Band Saws							
110V AC, 120V AC							
7 in x 12 in	7 in	85 to 235	45° Right	13.8 A	1	Dake Corporation	**40F055**
9 in x 12 in	9 in	98 to 328	45° Right	16.0 A	1	Dake Corporation	**40F056**
115/230V AC							
2 in x 6 ¾ in, 5 in x 6 in	5 in	80 to 200	45° , 90°	—	1	Jet	**42W915**
10 in x 14 in, 2 in x 16 in	10 in	100 to 350	45° , 90°	18.0/9.0 A	1	Jet	**3WRN8**
120/220V AC							
5 in x 18 in	10 in	50 to 270	0° to 45° Right	20.0 A	1	Dake Corporation	**444F17**
120/240V AC							
7 in x 12 in	7 in	86 to 260	0°	12/6	1	Dayton	**21C004**
7 in x 8 in	7 in	150 to 255	0°	14.0/7.0 A	1	Dayton	**21UM99**
8 in x 12 in	8 in	150 to 255	0° to 45°	14.0/7.0 A	1	Dayton	**48WE31**
120V AC							
5 in x 6 in	6 in	114 to 262	0° to 45°	20.0 A	1	Dake Corporation	**480Z97**
7 ¾ in x 3 in	6 ½ in	114 to 262	0° to 60° Right	20.0 A	1	Dake Corporation	**497Z50**
220V AC							
10 9/16 in x 4 5/16 in	8 ⅞ in	66 to 280	45° Left to 60° Right	—	1	Baileigh Industrial	**31XU48**
10 ⅜ in x 7 ¾ in	8 ½ in	114 to 230	0° to 60° Right	20.0 A	3	Dake Corporation	**497Z51**
10 3/16 in x 11 13/16 in	10 ¼ in	66 to 328	0°	17.0 A	3	Sharp	**446N88**
10 ½ in x 7 ¾ in	10 in	115 to 230	45° Left to 60° Right	20.0 A	3	Dake Corporation	**497Z52**
13 13/16 in x 8 11/16 in	10 ⅝ in	66 to 280	45° Left to 60° Right	—	1	Baileigh Industrial	**31XU53**
13 ⅜ in x 12 in	12 in	66 to 328	0°	17.0 A	3	Sharp	**446N89**
13 in x 18 in	13 in	60 to 306	45° Left to 60° Right	—	3	Baileigh Industrial	**31XU42**
13 in x 18 ⅞ in	13 in	82 to 270	0° to 45°	—	3	Baileigh Industrial	**31XU52**
14 3/16 in x 22 in	18 ⅛ in	66 to 279	0°	—	3	Baileigh Industrial	**31XU54**
15 in x 12 9/16 in	12 ⅝ in	66 to 328	0°	17.0 A	3	Sharp	**446N90**
15 in x 24 in	18 ⅛ in	106 to 317	65° Left to 65° Right	—	3	Baileigh Industrial	**31XU45**
230/460V AC							
10 in x 17 in	10 in	50 to 275	60° Left to 45° Right	5.4 A	3	Jet	**53ZC52**
10 in x 17 in	10 in	53 to 275	45° Left to 60° Right	—	3	Jet Elite	**20UT89**
10 in x 17 in	10 in	53 to 275	45° Left to 60° Right	—	3	Jet Elite	**20UT90**
10 in x 14 in	10 in	82 to 330	45° , 90°	—	3	Jet	**42W934**
10 in x 14 in, 2 in x 16 in	10 in	100 to 350	45° , 90°	15.0 A	3	Jet	**3WRN2**
10 in x 21 in, 13 in x 19 in	13 in	80 to 260	45° , 90°	—	3	Jet	**42W914**
230V AC							
7 13/16 in x 6 in	7 in	157 to 314	45° ,60° ,90°	—	3	Jet	**42W929**
7 ⅞ in x 15 ¾ in	12 in	125 to 252	45° Left to 60° Right	8.0	3	Dayton	**499F62**
8 ¾ in x 7 in	8 ¾ in	137 to 275	45° ,60° ,90°	—	3	Jet	**42W930**
8 ½ in x 13 in	10 ¼ in	125 to 255	0° to 60°	7.0	3	Dayton	**499F60**
9 in x 16 in	9 in	80 to 250	0° to 45°	4.7	1	Dayton	**499F31**
10 in x 17 in	10 in	50 to 275	45° , 90°	13.5 A	3	Jet	**53ZC54**
10 in x 18 in	10 in	50 to 275	60° Left to 45° Right	13.5 A	1	Jet	**53ZC53**
10 in x 14 in	10 in	82 to 330	45° , 90°	—	1	Jet	**42W933**
10 in x 16 in	10 in	95 to 350	0° to 60°	6.2	3	Dayton	**499F33**
10 in x 16 in	10 in	95 to 350	0° to 60°	12.0	1	Dayton	**499F32**
10 in x 14 in	10 in	100 to 350	0° to 45°	7.2/3.6 A	3	Dayton	**55MJ85**
12 in x 20 in	12 in	82 to 262	45° , 90°	—	3	Jet	**42W924**
12 in x 18 ½ in	12 in	85 to 370	0° to 45°	8.6	3	Dayton	**499F36**
460V AC							
7 ⅞ in x 15 ¾ in	12 in	125 to 252	45° Left to 60° Right	4.0	3	Dayton	**499F63**
8 ½ in x 13 in	10 ¼ in	125 to 255	45° Left to 60° Right	3.5	3	Dayton	**499F61**
10 in x 14 in, 2 in x 16 in	10 in	100 to 350	45° , 90°	—	3	Jet	**42W923**
12 in x 20 in	12 in	82 to 262	45° , 90°	—	3	Jet	**42W925**
12 in x 18 ½ in	12 in	85 to 370	0° to 45°	4.3	3	Dayton	**499F37**
Non-Mitering Band Saws							
220V AC							
29 ¾ in x 27 ½ in	27 ½ in	65 to 279	0°	—	3	Baileigh Industrial	**55KM81**
43.3 in x 43.3 in	43 ⅛ in	66 to 279	0°	—	3	Baileigh Industrial	**31XU37**

Mitering 444F17

Mitering 446N88

Mitering 42W923

Non-Mitering 55KM81

Automatic Horizontal Band Saws

- 3-phase

Programmable, automatic saws feed and cut material based on settings determined by the operator. This speeds processing and helps alleviate operator fatigue. Automatic band saws are used in production applications when cuts are repeated.

Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Miter Angle Range	Current	Brand	Item No.
Mitering Band Saws						
220V AC						
13 in x 18 in	13 in	89 to 256	0° to 45°	—	Baileigh Industrial	**31XU40**
460V AC						
12 in x 17 ¾ in	13 in	85 to 330	45° Left to 60° Right	6.4 A	Marvel	**53RU29**
15 in x 24 in	18 in	65 to 330	0° to 45° Right	10.2 A	Marvel	**419J31**
Non-Mitering Band Saws						
220V AC						
11 in x 10 in	10 in	50 to 330	0°	10.0 A	Sharp	**446N85**
31 ½ in x 31 ½ in	31 ½ in	66 to 279	0°	—	Baileigh Industrial	**31XU58**
230V AC						
8 in x 11 ¼ in	10 in	70 to 330	0°	19.6A	Marvel	**55EM59**
12 in x 12 in	12 in	98 to 275	0°	10.0 A	Dayton	**48WE70**

Mitering 446N85

Non-Mitering 31XU58

Manual
42W917

Semi-Automatic
42W918

Combination Vertical/Horizontal Band Saws

- Single phase

A pivoting head allows these saws to cut metal vertically or horizontally. **Manual** band saws are manually operated in both the vertical and horizontal position. In the vertical position, the operator pushes the material through the blade. In the horizontal position, the operator lowers the saw head to make the cut. **Semi-automatic** saws are manually operated in the vertical position and semi-automatic in the horizontal position. In the vertical position, the operator pushes the workpiece through the blade. In the horizontal position, the workpiece is clamped to a table and the saw is programmed to lower the cutting head to complete the cut.

Rectangular Cutting Capacity	Round Cutting Capacity	SFPM Range	Miter Angle Range	Current	Item No.
Manual					
115/230V AC					
2 in x 6 in, 5 in x 5 ¾ in	5 in	80 to 200	45°, 90°	9.0/4.5A	**42W917**
4 in x 11 in, 7 in x 10 ⅜ in	7 in	86 to 260	45°, 90°	9.8/4.9 A	**48RJ40**
4 in x 11 in, 7 in x 10 ¼ in	7 in	86 to 260	45°, 90°	9.8/4.9 A	**48RJ39**
8 in x 11 ¼ in	5 in	145 to 245	45°, 90°	16.0 A	**18F212**
Semi-Automatic					
115/230V AC					
7 in x 10 ½ in	7 in	86 to 260	45°, 90°	14.0/7.0 A	**42W918**
7 in x 10 ½ in	7 in	145 to 245	45°, 90°	14.0/7.0 A	**18F210**
115V AC					
7 in x 8 in	8 in	64 to 247	45° Left to 45° Right	9.0/4.5 A	**53ZC57**
8 in x 5 ½ in	10 in	64 to 247	45° Left to 45° Right	14.0/7.0 A	**53ZC58**

Manual
3WRN9

Semi-Automatic
36JT36

Vertical Metal-Cutting Band Saws

Manual saws have a table that supports the workpiece while the operator pushes it through the blade to make the cut. **Semi-automatic** saws are programmed by the operator to cut the material after the operator clamps the workpiece in place. The head moves through the workpiece as it rests on a stationary table.

Throat Depth	SFPM Range	Miter Angle Range	Current	Phase	Brand	Item No.
Manual						
110/220V AC, 220/440V AC						
14 in	70 to 540	5° Left to 45° Right	20.0 A	1	Dake Corporation	**444F25**
115/230V AC						
13 ½ in	82 to 330	12° Left to 15° Right	14.0/7.0 A	1	Jet	**42W936**
13 ½ in	Metal: 39 to 278, Wood: 3,300	0° to 45° Right	16.0 A	1	Jet	**3WRN9**
13 ½ in	Metal: 90 to 340, Wood: 2,600	0° to 45° Right	10.0/5.0 A	1	Jet	**42W926**
15 in	75 to 385	-10° to +10° (F to B), 15° Left to 15° Right	18.0/9.0 A	1	Dayton	**48WE33**
220/440V AC						
15 ½ in	82 to 3,950	0°	20.0 A	3	Dake Corporation	**429H39**
220V AC						
20 ½ in	65 to 1,640	5° Left to 15° Right	—	1	Baileigh Industrial	**31XU62**
230/460V AC						
12 in	Metal: 39 to 278, Wood: 3,300	15° Left to 45° Right	3.6/1.8 A	3	Jet	**42W927**
15 ½ in	82 to 3,950	12° Left to 15° Right	6.2/3.1 A	3	Jet	**42W937**
26 in	50 to 5,000	10° Left to 45° Right	8.0/4.0A	3	Jet Elite	**20UT95**
36 in	50 to 4,925	10° Left to 45° Right	—	3	Jet	**42W939**
230V AC						
20 in	50 to 415	10° Left to 45° Right	11.8 A	3	Marvel	**419J44**
20 in	50 to 5,000	10° Left to 45° Right	—	3	Jet Elite	**20UT96**
20 in	100 to 2,500	45° Left to 15° Right	6.5 A	3	Dayton	**467K82**
22 in	100 to 2,500	45° Left to 15° Right	9.7 A	3	Dayton	**467K84**
460V AC						
20 in	100 to 2,500	45° Left to 15° Right	3.3 A	3	Dayton	**467K83**
22 in	100 to 2,500	45° Left to 15° Right	4.9 A	3	Dayton	**467K85**
Semi-Automatic						
110/220V AC, 220/440V AC						
9 in	70 to 540	0°	20.0 A	1	Dake Corporation	**444F23**
230V AC						
18 in	50 to 450	45° Left to 45° Right	3.5 A	3	Marvel	**36JT36**
18 in	50 to 450	60° Left to 60° Right	11.6 A	3	Marvel	**36JT37**
460V AC						
18 in	50 to 450	45° Left to 45° Right	9.4 A	3	Marvel	**53RU22**
18 in	50 to 450	60° Left to 60° Right	12.3 A	3	Marvel	**53RU23**

Single-Speed
36VE06

Two-Speed
42W931

Wood-Cutting Band Saws

Cut laminate and plastic as well as wood at a high cutting speed. These saws have a horizontal cutting table and vertical blade head. **Single-speed** saws are used in shops for light-duty, occasional use when cutting the same types of material. **Two-speed** saws can be speed-adjusted to accommodate different types of wood.

Throat Depth	SFPM Range	Miter Angle Range	Current	Phase	Brand	Item No.
Single-Speed						
115/230V AC						
13 ½ in	3,000	10° Left to 45° Right	11.0/5.5 A	1	Powermatic	**36VE06**
14 ⅛ in	3,100	5° Left to 45° Right	15.0/7.5 A	1	Jet	**36VE22**
120V AC						
9 ½ in	2,900	0° to 45°	3.4 A	1	Dayton	**400H57**
220V AC						
21 ⅝ in	4,900	0° to 45°	28.0 A	1	Baileigh Industrial	**36HZ83**
230V AC						
14 ½ in	3,100	10° Left to 45° Right	12.0 A	1	Powermatic	**36VE08**
Two-Speed						
110V AC						
13 ⅝ in	2,800 to 3,950	0° to 45°	20.0 A	2	Baileigh Industrial	**36HZ81**
115/230V AC						
13 ½ in	1,500 to 3,000	10° Left to 45° Right	—	1	Jet	**42W932**
13 ½ in	3,000	10° Left to 45° Right	10.0/5.0A	1	Jet	**42W931**
14 ⅛ in	3,100	5° Left to 45° Right	15/7.5 A	1	Jet	**52JT16**
18 in	2,300 to 3,800	5° Left to 45° Right	15/7.5 A	1	Jet	**52JT18**
120/240V AC						
11 in	2,000 to 2,800	0°	15.0/7.5 A	1	Dayton	**21UN03**
14 ⅝ in	2,000 to 2,800	0°	13.0/6.0 A	1	Dayton	**21UN02**
230/460V AC						
24 in	2,300 to 4,400	10° Left to 45° Right	15.0/7.5 A	3	Powermatic	**45EV07**
230V AC						
18 in	2,300 to 3,800	5° Left to 45° Right	12.0 A	1	Jet	**52JT19**
20 in	2,530 to 4,850	5° Left to 45° Right	22.0 A	1	Jet	**52JT21**

For Aluminum and Soft Metals
54GU78

Starrett® LENOX

Narrow Band Saw Blades

- Bimetal tipped

Blade widths up to ½" leave the blade flexible to make curved cuts. The ends of these metal-cutting blades are welded to form a continuous loop with a single cutting edge that cuts as the blade rotates through the workpiece. Blade material, tooth, and geometry are optimized for specific metals.

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
For Aluminum & Soft Metals						
Starrett Duratec SFB						
¼ in	105 in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GU78**
⅜ in	93½ in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GV22**
⅜ in	93½ in	0.025 in	18	3½ in to 7 in	3½ in to 7 in	**54GV29**
½ in	64½ in	0.025 in	10	3½ in to 7 in	3½ in to 7 in	**54GV93**
½ in	64½ in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GW18**
½ in	64½ in	0.025 in	18	3½ in to 7 in	3½ in to 7 in	**54GW45**
½ in	64½ in	0.025 in	24	3½ in to 7 in	3½ in to 7 in	**54GW54**
½ in	93½ in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GW26**
½ in	93½ in	0.025 in	24	3½ in to 7 in	3½ in to 7 in	**54GW56**
For General Purpose Metal Cutting						
Lenox Diemaster 2						
¼ in	60 in	0.035 in	10/14	0 in to ⅛ in	¼ in to ½ in	**54AM40**
¼ in	62 in	0.025 in	6	¼ in to ⅝ in	1 in to 2 in	**54AJ49**
¼ in	67½ in	0.025 in	6	¼ in to ⅝ in	1 in to 2 in	**54CA30**
¼ in	67½ in	0.025 in	14/18	0 in to ⅛ in	0 in to ¼ in	**54AA85**
¼ in	70½ in	0.025 in	14/18	0 in to ⅛ in	0 in to ¼ in	**54AL16**
¼ in	70½ in	0.035 in	10/14	0 in to ⅛ in	¼ in to ½ in	**54CR13**
¼ in	80 in	0.025 in	10/14	0 in to ⅛ in	¼ in to ½ in	**54CK58**

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
For Stainless Steel & Hard Alloys						
Starrett Intenss PRO-DIE						
¼ in	14 ft 6 in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GG22**
¼ in	80 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GF98**
¼ in	93 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GG02**
¼ in	93½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GG03**
⅜ in	62 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GG44**
⅜ in	92½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GG50**
⅜ in	92½ in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GG64**
⅜ in	93½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GG52**
½ in	10 ft 3½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK35**
½ in	10 ft 11½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK41**
½ in	10 ft 3 in	0.035 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH30**
½ in	12 ft 10 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK62**
½ in	12 ft 6 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK57**
½ in	12 ft 6½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK58**
½ in	12 ft 9 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK61**
½ in	12 ft 8 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GK60**
½ in	12 ft 6 in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GL24**
½ in	12 ft 6 in	0.035 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH35**
½ in	12 ft 6 in	0.035 in	14	3½ in to 7 in	3½ in to 7 in	**54GH57**
½ in	13 ft	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GL02**
½ in	32⅞ in	0.02 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GL06**
½ in	34⅜ in	0.02 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GL07**
½ in	45 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH63**
½ in	64½ in	0.02 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GL09**
½ in	64½ in	0.025 in	8/12	3½ in to 7 in	3½ in to 7 in	**54GG96**
½ in	64½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH71**
½ in	64½ in	0.025 in	14	3½ in to 7 in	3½ in to 7 in	**54GL13**
½ in	64½ in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GK86**
½ in	64½ in	0.035 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH22**
½ in	64½ in	0.035 in	14	3½ in to 7 in	3½ in to 7 in	**54GH42**
½ in	68¼ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH79**
½ in	68½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH78**
½ in	92½ in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GK88**
½ in	93 in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GK89**
½ in	93½ in	0.02 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GL11**
½ in	93½ in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH93**
½ in	93½ in	0.025 in	14/18	3½ in to 7 in	3½ in to 7 in	**54GK90**
½ in	93½ in	0.035 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GH25**
½ in	114 in	0.025 in	10/14	3½ in to 7 in	3½ in to 7 in	**54GJ11**

Starrett® JET LENOX MORSE

Standard Width Band Saw Blades

- Bimetal tipped

Range from ⅝" to 1" wide and cut metal in occasional maintenance and short-run production tasks. Blade material and tooth geometry are optimized to cut specific materials. **Structural shape blades** cut structural steel profiles such as tube and I-beams where the blade passes through different thicknesses of material in a single pass.

For General Purpose Metal Cutting
24V291

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
For Aluminum & Soft Metals						
Starrett Duratec SFB						
⅝"	93 in	0.032 in	14	3½ in to 7 in	3½ in to 7 in	**54GW61**
⅝"	98½ in	0.032 in	14	3½ in to 7 in	3½ in to 7 in	**54GW62**
¾"	11 ft 5 in	0.032 in	10	3½ in to 7 in	3½ in to 7 in	**54GX02**
¾"	19 ft 6 in	0.032 in	4	3½ in to 7 in	3½ in to 7 in	**54GW77**
¾"	93 in	0.032 in	18	3½ in to 7 in	3½ in to 7 in	**54GX23**
¾"	93½ in	0.032 in	3	3½ in to 7 in	3½ in to 7 in	**54GW64**
¾"	101 in	0.032 in	14	3½ in to 7 in	3½ in to 7 in	**54GX11**
¾"	115½ in	0.032 in	14	3½ in to 7 in	3½ in to 7 in	**54GX15**
1"	10 ft	0.035 in	10	3½ in to 7 in	3½ in to 7 in	**54GX39**
1"	10 ft 10½ in	0.035 in	10	3½ in to 7 in	3½ in to 7 in	**54GX40**
1"	11 ft	0.035 in	14	3½ in to 7 in	3½ in to 7 in	**54GX46**
1"	19 ft 6 in	0.035 in	3	3½ in to 7 in	3½ in to 7 in	**54GX25**
For General Purpose Metal Cutting						
Jet						
¾"	93 in	0.035 in	6/10	7 in	10 in	**24V291**
¾"	97 in	0.035 in	8/12	8 in	14 in	**52HR86**
Lenox Classic Pro						
1"	10 ft	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**21Y518**
1"	10 ft 4½ in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZM35**
1"	11 ft	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZA94**
1"	11 ft 1½ in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZG62**
1"	11 ft 3 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZC01**
1"	11 ft 6 in	0.035 in	⅔	1 in to 2½ in	5 in to 10 in	**53ZA61**
1"	11 ft 4½ in	0.035 in	¾	½ in to 1 in	2 in to 5 in	**53ZN62**
1"	11 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZA33**
1"	12 ft 6¼ in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZG08**
1"	12 ft	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**21Y524**
1"	12 ft 11 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZM14**
1"	13 ft	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZJ59**
1"	13 ft 1½ in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZL72**
1"	13 ft 7 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZM38**
1"	13 ft 2 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZA48**
1"	96 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZA18**
1"	96⅞ in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZA21**
1"	104½ in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZG37**
1"	104½ in	0.035 in	¾	½ in to 1 in	2 in to 5 in	**53ZE63**
1"	113½ in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZF47**
1"	114½ in	0.035 in	⅔	1 in to 2½ in	5 in to 10 in	**53ZL74**
1"	116 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZA31**
1"	119½ in	0.035 in	¾	½ in to 1 in	2 in to 5 in	**53ZA28**

**Carbide tipped*

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
For Stainless Steel & Hard Alloys						
MK Morse M-Factor GP						
1"	13 ft 6 in	0.035 in	¾	—	1¾ in to 7 in	**45U210** *
1"	14 ft 6 in	0.035 in	¾	—	1¾ in to 7 in	**45U215** *
1¼"	14 ft 6 in	0.042 in	¾	—	1¾ in to 7 in	**45U217** *
1½"	15 ft	0.05 in	⅔	—	2¼ in to 11 in	**45U222** *
Starrett Intenss PRO						
¾"	10 ft	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL47**
¾"	10 ft 10½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL50**
¾"	10 ft 5 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL48**
¾"	11 ft	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL51**
¾"	11 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL53**
¾"	12 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL54**
¾"	15 ft 8 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL57**
¾"	92½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL33**
¾"	93 in	0.035 in	¾	3½ in to 7 in	3½ in to 7 in	**54GL25**
¾"	93 in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM22**
¾"	107 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL40**
¾"	108 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL41**
¾"	110 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL42**
¾"	114 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL43**
¾"	117 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL46**
1"	10 ft 10 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL74**
1"	10 ft 10½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL75**
1"	10 ft 11 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL76**
1"	10 ft 5 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL70**
1"	10 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL71**
1"	10 ft 8 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL72**
1"	10 ft 9 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL73**
1"	10 ft	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM78**
1"	11 ft	0.035 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GM57**
1"	11 ft 5½ in	0.035 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GM60**
1"	11 ft 4 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL79**
1"	11 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL81**
1"	11 ft 3 in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM82**
1"	12 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL85**
1"	12 ft 9½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL86**
1"	12 ft	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM85**
1"	13 ft 10 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL93**
1"	13 ft 2 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL88**
1"	13 ft 3 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL89**
1"	13 ft 11 in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM93**
1"	13 ft 2 in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM88**
1"	13 ft 6 in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM91**
1"	14 ft 4 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL95**
1"	14 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL96**
1"	15 ft ½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL98**
1"	15 ft 6 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL99**

CONTINUED

CONTINUED

Standard Width Band Saw Blades

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
1"	96 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL58**
1"	96½ in	0.035 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GM50**
1"	114½ in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM75**
1"	115½ in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL65**
1"	119 in	0.035 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GL66**
1"	119½ in	0.035 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GM77**
For Steel & Steel Alloys						
Lenox QXP						
1"	10 ft 10½ in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDG6**
1"	11 ft 3 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDG8**
1"	11 ft	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDG7**
1"	12 ft 6 in	0.035 in	⅔	1 in to 2½ in	5 in to 10 in	**405F27**
1"	12 ft	0.035 in	¾	½ in to 1 in	2 in to 5 in	**5WDP8**
1"	13 ft 3 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDJ4**
Morse Maverick						
1"	11 ft 6 in	0.035 in	¾	⅟32 in	1¾ in to 7 in	**493V84**
For Structural Shapes						
Lenox Rx+						
¾"	11 ft 6 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHD4**
¾"	14 ft 8 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDG3**
¾"	93 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHC9**
1"	10 ft	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHD0**
1"	10 ft 10½ in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHD1**
1"	11 ft 6 in	0.035 in	¾	½ in to 1 in	2 in to 5 in	**5WDG2**
1"	12 ft 10 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5XHE1**
1"	12 ft 6 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHE0**
1"	14 ft 10 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDC8**
1"	15 ft 6 in	0.035 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDD5**
1"	116 in	0.035 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDG1**
MK Morse Challenger						
¾"	10 ft	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ44**
¾"	10 ft 10 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ45**
¾"	11 ft 6 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ46**
¾"	14 ft 6 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ47**
¾"	93 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ42**
¾"	114 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ43**
1"	10 ft	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ51**
1"	10 ft 10 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ52**
1"	11 ft 3 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ53**
1"	11 ft 6 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ54**
1"	13 ft 2 in	0.035 in	4/6	⅟32 in	⅜ in to ¾ in	**45L456**
1"	15 ft 6 in	0.035 in	5/7	⅟32 in	¼ in to ⅜ in	**45L485**
1"	93 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ48**
1"	106 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ49**
1"	114 in	0.035 in	8/11	⅟32 in	⅛ in to 3⁄16 in	**20UJ50**
1¼"	19 ft 5 in	0.042 in	4/6	⅟32 in	⅜ in to ¾ in	**45L507**
Starrett Versatix MP						
¾"	10 ft	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP12**
¾"	10 ft 10½ in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP16**
¾"	10 ft 5 in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP13**
¾"	10 ft	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP64**
¾"	10 ft 10½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP73**
¾"	10 ft 3 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP67**
¾"	10 ft 9 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP71**
¾"	11 ft	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP76**
¾"	11 ft 4 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP78**
¾"	11 ft 5 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP79**
¾"	83 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP29**
¾"	83⅛ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP30**
¾"	84 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP31**
¾"	85 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP32**
¾"	92 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP34**
¾"	92½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP35**
¾"	93 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP36**
¾"	93½ in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP03**
¾"	96 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP40**
¾"	97 in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP05**
¾"	98½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP43**
¾"	101 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP46**
¾"	107 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP51**
¾"	108 in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP07**
¾"	110 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP53**
¾"	115½ in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GP09**
¾"	116 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP60**
¾"	117 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GP62**
1"	10 ft	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR13**
1"	10 ft 10½ in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR16**
1"	10 ft	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR53**
1"	10 ft 1 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR54**
1"	10 ft 1½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR55**
1"	10 ft 10 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR62**
1"	10 ft 11 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR64**
1"	10 ft 11½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR65**
1"	11 ft	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR18**
1"	11 ft	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR66**
1"	12 ft	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR77**
1"	13 ft	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR26**
1"	96 in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR04**
1"	96½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR38**
1"	97 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR39**
1"	97½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR40**
1"	104½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR41**
1"	106 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR43**
1"	108 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR45**
1"	109 in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR46**
1"	114 in	0.035 in	8/12	½ in to ¾ in	½ in to ¾ in	**54GR10**
1"	114½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR48**
1"	119½ in	0.035 in	10/14	¼ in to ½ in	¼ in to ½ in	**54GR52**

**Carbide tipped*

Wide Band Saw Blades

For Structural Shapes
5XHD7

- Bimetal tipped

Blade widths of 1 ¼" or more for extended use in large band saws for production and manufacturing tasks. **General purpose blades** cut mild steel, stainless steel, aluminum, and softer metals such as brass. They are common on production lines and fabrication operations where a variety of materials are cut so blades don't have to be changed between cuts. **Structural shape blades** cut steel profiles such as tube and I-beams where the blade passes through different thicknesses of material in a single pass.

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
For General Purpose Metal Cutting						
Lenox Classic Pro						
1¼"	11 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZD89**
1¼"	12 ft	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD58**
1¼"	12 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD59**
1¼"	13 ft 5 in	0.042 in	⅔	1 in to 2½ in	5 in to 10 in	**53ZF79**
1¼"	13 ft 5½ in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZD93**
1¼"	13 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZD94**
1¼"	14 ft 11 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD68**
1¼"	14 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**21Y520**
1¼"	15 ft	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**21Y528**
1¼"	15 ft 4 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZD98**
1¼"	15 ft 6 in	0.042 in	¾	½ in to 1 in	2 in to 5 in	**53ZD47**
1¼"	16 ft 11 in	0.042 in	¾	½ in to 1 in	2 in to 5 in	**53ZF29**
1¼"	16 ft 3 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZF74**
1¼"	16 ft 5 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD77**
1¼"	17 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD83**
1¼"	18 ft 10 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZD86**
1¼"	18 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**53ZE09**
1¼"	22 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZG64**
1½"	17 ft	0.05 in	4/6	¼ in to ¾ in	¾ in to 2 in	**53ZF52**
For Stainless Steel & Hard Alloys						
Starrett Intenss PRO						
1¼"	11 ft 6 in	0.042 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GN49**
1¼"	12 ft	0.042 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GM02**
1¼"	12 ft 6 in	0.042 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GM03**
1¼"	12 ft 6½ in	0.042 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GN34**
1¼"	12 ft 9 in	0.042 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GN35**
1¼"	13 ft 5½ in	0.042 in	¾	3½ in to 7 in	3½ in to 7 in	**54GN18**
1¼"	13 ft 6 in	0.042 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GM05**
1¼"	13 ft 6 in	0.042 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GN53**
1¼"	15 ft	0.042 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GM07**
1¼"	15 ft 4 in	0.042 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GN57**
1¼"	15 ft 8 in	0.042 in	6/10	3½ in to 7 in	3½ in to 7 in	**54GM10**
1¼"	16 ft	0.042 in	⅝	3½ in to 7 in	3½ in to 7 in	**54GN60**
1¼"	17 ft 6 in	0.042 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GN47**
1¼"	18 ft 6 in	0.042 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GN48**
1½"	15 ft 6 in	0.05 in	¾	3½ in to 7 in	3½ in to 7 in	**54GN72**
1½"	17 ft	0.05 in	4/6	3½ in to 7 in	3½ in to 7 in	**54GN78**
1½"	19 ft	0.05 in	⅔	3½ in to 7 in	3½ in to 7 in	**54GN67**
For Steel & Steel Alloys						
Lenox QXP						
1¼"	11 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDH3**
1¼"	12 ft	0.042 in	⅔	1 in to 2½ in	5 in to 10 in	**5WDH6**
1¼"	12 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDJ0**
1¼"	13 ft 6 in	0.042 in	¾	½ in to 1 in	2 in to 5 in	**5WDK0**
1¼"	14 ft 11 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDT0**
1¼"	14 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDK9**
1¼"	15 ft	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDL1**
1¼"	15 ft 4 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDR5**
1¼"	15 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDL6**
1¼"	16 ft	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDP1**
1¼"	18 ft 6 in	0.042 in	¾	½ in to 1 in	2 in to 5 in	**52JR24**
1½"	19 ft	0.05 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDN7**
1½"	19 ft 2 in	0.05 in	¾	½ in to 1 in	2 in to 5 in	**5WDP0**
1½"	20 ft 6 in	0.05 in	¾	½ in to 1 in	2 in to 5 in	**5WDR9**
2"	19 ft	0.063 in	4/6	¼ in to ¾ in	¾ in to 2 in	**464D84**
For Structural Shapes						
Lenox Rx+						
1¼"	11 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5XHD7**
1¼"	12 ft	0.042 in	¾	½ in to 1 in	2 in to 5 in	**5WDF3**
1¼"	13 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDA9**
1¼"	14 ft 11 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDC9**
1¼"	14 ft 3 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDF6**
1¼"	14 ft 6 in	0.042 in	¾	½ in to 1 in	2 in to 5 in	**5WDC5**
1¼"	15 ft	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDD2**
1¼"	15 ft 4 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDD4**
1¼"	15 ft 6 in	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDD7**
1¼"	16 ft	0.042 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDD9**
1¼"	17 ft 6 in	0.042 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDF2**
1½"	18 ft 2 in	0.05 in	4/6	¼ in to ¾ in	¾ in to 2 in	**5WDE1**
1½"	19 ft	0.05 in	⅝	¼ in to ¾ in	¾ in to 2 in	**5WDE6**
1½"	20 ft 6 in	0.05 in	¾	½ in to 1 in	2 in to 5 in	**5WDE7**
Starrett Versatix MP						
1¼"	11 ft 6 in	0.042 in	6/10	¾ in to 1 in	¾ in to 1 in	**54GT87**
1¼"	13 ft 6 in	0.042 in	⅝	1 in to 1½ in	1 in to 1½ in	**54GT78**
1¼"	15 ft	0.042 in	4/6	1½ in to 3½ in	1½ in to 3½ in	**54GT70**
1¼"	15 ft 4 in	0.042 in	6/10	¾ in to 1 in	¾ in to 1 in	**54GT92**
1¼"	16 ft	0.042 in	4/6	1½ in to 3½ in	1½ in to 3½ in	**54GT74**
1¼"	16 ft 5 in	0.042 in	⅝	1 in to 1½ in	1 in to 1½ in	**54GT84**
1¼"	21 ft	0.042 in	⅝	1 in to 1½ in	1 in to 1½ in	**54GT86**
1½"	17 ft 6 in	0.05 in	4/6	1½ in to 3½ in	1½ in to 3½ in	**54GU06**
1½"	18 ft 10 in	0.05 in	⅔	7 in to 10 in	7 in to 10 in	**54GT94**
1½"	27 ft	0.05 in	¾	3½ in to 7 in	3½ in to 7 in	**54GU04**

Flex Back
6RA83

Hard Backing
4WU50

Wood-Cutting Band Saw Blades

- Carbon steel tipped

For use in vertical band saws that operate at higher speeds required for cutting wood. **Flex-back blades** absorb shock at high speeds to resist fatigue better than hard back blades. They are best suited for cutting soft wood and making curved cuts. **Hard-back blades** make straight cuts and are used when high force or pressure is applied to the blade as material moves past the blade, such as when cutting hard wood, mild metal, and large workpieces. They are usually used at slower speeds than flexible back blades.

Width	Blade Length	Thickness	Teeth per Inch	For Material Width	Cutting Edge Style	Item No.
Flex Back						
¼ in	12 ft 6 in	0.025 in	4	1¾ in to 4 in	Hook	**4VY18**
¼ in	12 ft 6 in	0.025 in	6	1½ in to 4 in	Hook	**4VY19**
¼ in	93 in	0.025 in	6	1½ in to 4 in	Hook	**4VY92**
¼ in	93 in	0.025 in	10	½ in and up	Hook	**4VY93**
¼ in	93½ in	0.025 in	4	1¾ in to 4 in	Hook	**4VY68**
¼ in	93½ in	0.025 in	6	1½ in to 4 in	Hook	**4VY69**
¼ in	93½ in	0.025 in	6	1½ in to 4 in	Skip	**4VY73**
¼ in	93½ in	0.025 in	10	½ in and up	Hook	**4VY70**
¼ in	93½ in	0.025 in	14	¼ in to ½ in	Hook	**4VY71**
¼ in	105 in	0.025 in	10	½ in and up	Hook	**4WA24**
⅜ in	12 ft 6 in	0.025 in	4	1¾ in to 4 in	Hook	**4VY22**
⅜ in	93 in	0.025 in	6	1½ in to 4 in	Hook	**4VY96**
⅜ in	93 in	0.025 in	14	¼ in to ½ in	Hook	**4VY98**
⅜ in	93½ in	0.025 in	6	1½ in to 4 in	Hook	**4VY75**
⅜ in	93½ in	0.025 in	8	1 in to 3 in	Hook	**4VY76**
⅜ in	93½ in	0.025 in	14	¼ in to ½ in	Hook	**4VY78**
½ in	11 ft	0.025 in	14	¼ in to ½ in	Hook	**4VY13**
½ in	12 ft 6 in	0.025 in	4	1¾ in to 4 in	Hook	**G2034**
½ in	64½ in	0.025 in	14	¼ in to ½ in	Hook	**4VY38**
½ in	64½ in	0.025 in	18	⅛ in to ¼ in	Wavy	**6RA83**
½ in	64½ in	0.025 in	24	0 in to ⅛ in	Hook	**4VY35**
½ in	89½ in	0.025 in	14	¼ in to ½ in	Variable	**5JDY8**
½ in	93 in	0.025 in	4	1¾ in to 4 in	Skip	**4WA12**
½ in	93 in	0.025 in	18	⅛ in to ¼ in	Hook	**4WA11**
½ in	93½ in	0.025 in	4	1¾ in to 4 in	Skip	**4VY85**
½ in	93½ in	0.025 in	6	1½ in to 4 in	Hook	**4VY81**
½ in	93½ in	0.025 in	6	1½ in to 4 in	Hook	**6YGA8**
½ in	93½ in	0.025 in	10	½ in and up	Hook	**4VY82**
½ in	93½ in	0.025 in	14	¼ in to ½ in	Hook	**4VY83**
½ in	100 ft	0.025 in	14	¼ in to ½ in	Hook	**2CDN8**
½ in	105 in	0.025 in	6	1½ in to 4 in	Hook	**4WA27**
½ in	105 in	0.025 in	10	½ in and up	Hook	**4WA28**
¾ in	93 in	0.032 in	6	1½ in to 4 in	Hook	**4WA13**
¾ in	93 in	0.032 in	10	½ in and up	Hook	**4WA15**
¾ in	93 in	0.032 in	14	¼ in to ½ in	Hook	**4WA16**
¾ in	93 in	0.032 in	18	⅛ in to ¼ in	Hook	**4WA17**
¾ in	93½ in	0.032 in	4	1¾ in to 4 in	Hook	**4VY86**

Width	Blade Length	Thickness	Teeth per Inch	For Material Width	Cutting Edge Style	Item No.
Hard Back						
¼ in	12 ft 6 in	0.025 in	10	⅜ in to ½ in	Hook	**6RPK4**
¼ in	92½ in	0.025 in	14	½ in to 2 in	Hook	**4WU16**
¼ in	93 in	0.025 in	6	1½ in to 2½ in	Hook	**4WU48**
¼ in	93 in	0.025 in	14	½ in to 2 in	Hook	**4WU32**
¼ in	118 in	0.025 in	14	½ in to 2 in	Hook	**4YB17**
⅜ in	10 ft	0.032 in	10	⅜ in to ½ in	Hook	**4VV98**
⅜ in	93 in	0.025 in	14	½ in to 2 in	Hook	**6YFY7**
⅜ in	93 in	0.032 in	6	1½ in to 2½ in	Hook	**4WU30**
⅜ in	93½ in	0.025 in	14	½ in to 2 in	Hook	**4WU28**
⅜ in	93½ in	0.025 in	14	½ in to 2 in	Hook	**4WU29**
½ in	10 ft	0.025 in	14	½ in to 2 in	Hook	**4WE43**
½ in	11 ft 1 in	0.025 in	6	1½ in to 2½ in	Hook	**4WE64**
½ in	12 ft 6 in	0.025 in	4	2 in to 3¼ in	Hook	**4WE79**
½ in	12 ft 6 in	0.025 in	10	⅜ in to ½ in	Hook	**4WE80**
½ in	12 ft 6 in	0.025 in	14	½ in to 2 in	Hook	**4WE81**
½ in	14 ft 8 in	0.025 in	14	½ in to 2 in	Hook	**4WU50**
½ in	64½ in	0.025 in	10	⅜ in to ½ in	Hook	**4WE98**
½ in	64½ in	0.025 in	14	½ in to 2 in	Hook	**4WE99**
½ in	64½ in	0.025 in	18	⅜ in to ½ in	Hook	**4WU12**
½ in	68 in	0.025 in	14	½ in to 2 in	Hook	**4WU14**
½ in	68 in	0.025 in	18	⅛ in to 3/16 in	Hook	**4WE96**
½ in	92½ in	0.025 in	14	½ in to 2 in	Hook	**4WU20**
½ in	93 in	0.025 in	10	⅜ in to ½ in	Hook	**4WU35**
½ in	93 in	0.025 in	14	½ in to 2 in	Hook	**4WU36**
½ in	93 in	0.025 in	18	⅛ in to 3/16 in	Hook	**4WU40**
½ in	93½ in	0.025 in	6	1½ in to 2½ in	Hook	**4YB21**
½ in	93½ in	0.025 in	10	⅜ in to ½ in	Hook	**6YGA9**
½ in	93½ in	0.025 in	18	⅛ in to 3/16 in	Hook	**6YGC0**
½ in	93½ in	0.025 in	18	⅛ in to 3/16 in	Hook	**4YB29**
½ in	100 ft	0.025 in	6	1½ in to 2½ in	Hook	**4YB38**
½ in	100 ft	0.025 in	10	⅜ in to ½ in	Hook	**2CDN7**
½ in	105 in	0.025 in	6	1½ in to 2½ in	Hook	**6YGD0**
½ in	108 in	0.032 in	6	1½ in to 2½ in	Hook	**4WU63**
¾ in	10 ft 10½ in	0.032 in	14	½ in to 2 in	Wavy	**4WE52**
¾ in	11 ft 6 in	0.032 in	10	⅜ in to ½ in	Hook	**4WE66**
¾ in	11 ft 1 in	0.032 in	14	½ in to 2 in	Hook	**4WE63**
¾ in	11 ft 6 in	0.032 in	14	½ in to 2 in	Hook	**4WE67**
¾ in	14 ft 8 in	0.032 in	14	½ in to 2 in	Hook	**4WE93**
¾ in	93 in	0.032 in	10	⅜ in to ½ in	Hook	**4WU44**
¾ in	93 in	0.032 in	14	½ in to 2 in	Hook	**4WU45**
¾ in	93 in	0.032 in	14	½ in to 2 in	Hook	**4WU65**
¾ in	101 in	0.032 in	14	½ in to 2 in	Hook	**4WU56**
¾ in	106½ in	0.032 in	14	½ in to 2 in	Hook	**4WU52**
¾ in	114 in	0.032 in	14	½ in to 2 in	Hook	**4YB34**
¾ in	115½ in	0.032 in	14	½ in to 2 in	Hook	**4WU67**
1 in	10 ft 10½ in	0.035 in	10	⅜ in to ½ in	Hook	**4WE54**
1 in	11 ft 6 in	0.035 in	6	1½ in to 2½ in	Hook	**4WE71**
1 in	11 ft	0.035 in	10	⅜ in to ½ in	Hook	**4WE60**
1 in	11 ft 6 in	0.035 in	14	½ in to 2 in	Hook	**4WE74**
1 in	11 ft	0.035 in	14	½ in to 2 in	Hook	**4WE61**

Continous-Edge
6XFZ0

Gulleted-Edge
6XFZ1

Band Saw Blades for Ceramic, Composites & Cast Iron

Abrasive grit cuts through hard and brittle materials including ceramic, composite materials, and cast iron. **Continuous-edge** carbide-grit band saw blades have carbide grit on the entire length of the blade. They leave a fine edge on stone, glass, and thin, brittle material. **Gulleted-edge** blades have grit on the cutting teeth and semicircular gaps between the teeth to cut thick material, cast iron, and composite materials.

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
Continuous-Edge						
½ in	93 in	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ5**
¼ in	93 in	0.02 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ0**
1 in	11 ft 1 in	0.035 in	⅔	1/16 in to ⅛ in	½ in to 2 in	**6XGA2**
Gulleted-Edge						
½ in	10 ft	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XGA0**
½ in	10 ft	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ8**
½ in	93 in	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ3**
½ in	93 in	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ4**
½ in	93 in	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ1**
¾ in	11 ft 6 in	0.032 in	7/10	1/32 in	¾ in	**6ULF1**
¾ in	93 in	0.032 in	⅔	1/16 in to ⅛ in	½ in to 2 in	**6XFZ7**
¾ in	93 in	0.032 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ6**
⅜ in	93 in	0.025 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XFZ2**
1 in	11 ft	0.035 in	7/10	1/16 in to ⅛ in	½ in to 2 in	**6XGA1**

Hook Tooth
45KY51

Starrett

Band Saw Blades for Cutting Meat and Frozen Food

- Bimetal tip

Food-safe blades cut meat, fish, and produce in large- and small-scale food processing and butchery applications. **Hook-tooth** blades cut frozen foods and bone-in meat. **Scalloped-tooth** blades have a serrated edge for cutting soft foodstuffs like cheese, vegetables, and fresh meat. They also cut through soft, non-food materials such as foam, paper, and rubber.

Width	Blade Length	Thickness	Teeth per Inch	For Material Thickness	For Material Width	Item No.
Hook Tooth						
Starrett CarcassKutter						
¾ in	9 ft 4 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY57**
¾ in	10 ft 7¼ in	0.022 in	3	7 in to 10 in	7 in to 10 in	**45KY80**
¾ in	11 ft 1 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY88**
¾ in	119 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY69**
Starrett MeatKutter						
⅝ in	10 ft 4 in	0.022 in	3	3½ in to 7 in	3½ in to 7 in	**45KY70**
⅝ in	10 ft 6 in	0.022 in	3	3½ in to 7 in	3½ in to 7 in	**45KY75**
⅝ in	10 ft 8 in	0.022 in	3	3½ in to 7 in	3½ in to 7 in	**45KY82**
⅝ in	10 ft 6 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY76**
⅝ in	10 ft 8 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY83**
⅝ in	10 ft 4 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY71**
⅝ in	10 ft 6 in	0.025 in	3	3½ in to 7 in	3½ in to 7 in	**45KY78**
⅝ in	10 ft 4 in	0.025 in	3	3½ in to 7 in	3½ in to 7 in	**45KY73**
⅝ in	10 ft 6 in	0.025 in	4	3½ in to 7 in	3½ in to 7 in	**45KY79**
⅝ in	11 ft 10 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY95**
⅝ in	11 ft 10 in	0.025 in	3	3½ in to 7 in	3½ in to 7 in	**45KY97**
⅝ in	12 ft 10 in	0.025 in	3	3½ in to 7 in	3½ in to 7 in	**45KZ03**
⅝ in	98 in	0.022 in	3	3½ in to 7 in	3½ in to 7 in	**45KY51**
⅝ in	98 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY52**
⅝ in	98 in	0.025 in	3	3½ in to 7 in	3½ in to 7 in	**45KY54**
⅝ in	98 in	0.025 in	4	3½ in to 7 in	3½ in to 7 in	**45KY55**
⅝ in	118 in	0.022 in	4	3½ in to 7 in	3½ in to 7 in	**45KY64**
¾ in	118⅝ in	0.022 in	3	7 in to 10 in	7 in to 10 in	**54GF85**
Scalloped Tooth						
Starrett Band Knife						
⅝ in	10 ft 6 in	0.022 in	7	6 in	6 in	**45KY77**
⅝ in	10 ft 4 in	0.022 in	7	6 in	6 in	**45KY72**
⅝ in	11 ft 10 in	0.022 in	7	6 in	6 in	**45KY96**
⅝ in	12 ft 10 in	0.022 in	7	6 in	6 in	**45KZ02**
⅝ in	98 in	0.022 in	7	6 in	6 in	**45KY53**
⅝ in	112 in	0.022 in	7	6 in	6 in	**45KY60**
⅝ in	118 in	0.022 in	7	6 in	6 in	**45KY65**

General Purpose
Metal Cutting
4WA50

Wood
6YFV9

MORSE THE M. K. MORSE COMPANY LENOX

Band Saw Blade Coil Stock

This unwelded stock forms custom-length blades to eliminate the lead time of a custom order. It can be cut to length and welded with a band saw blade welding tool. Coil stock is used in blade houses and other facilities with in-house blade welding services.

Blade Width	Teeth per Inch	Blade Thickness	Coil Length	For Material Thickness	For Material Width	Brand	Item No.
General Purpose Metal Cutting							
¼ in	5/7	0.025 in	100 ft	1/16 in to ⅛ in	½ in to 2 in	Morse	**6YPF5**
¼ in	14/18	0.025 in	100 ft	0 in to ⅛ in	0 in to ¼ in	LENOX	**41GR57**
⅜ in	5/7	0.025 in	100 ft	1/16 in to ⅛ in	½ in to 2 in	Morse	**4WA50**
½ in	10/14	0.025 in	100 ft	1/16 in to ⅛ in	½ in to 2 in	Morse	**4WA51**
½ in	18	0.025 in	100 ft	—	¼ in to ¾ in	Morse	**4WA47**
½ in	⅔	0.025 in	100 ft	⅛ in to 3/16 in	¾ in to 2½ in	Morse	**6YPF4**
½ in	⅔	0.025 in	100 ft	⅛ in to 3/16 in	¾ in to 2½ in	Morse	**4WA52**
¾ in	5/7	0.035 in	100 ft	1/16 in to ⅛ in	½ in to 2 in	Morse	**4WA53**
¾ in	5/7	0.035 in	100 ft	1/16 in to ⅛ in	½ in to 2 in	Morse	**6YPF6**
1 in	⅔	0.035 in	250 ft	¼ in to ¾ in	¾ in to 2 in	LENOX	**41GR58**
Wood							
¼ in	14	0.025 in	100 ft	—	½ in to 2 in	Morse	**4WE44**
¼ in	14	0.025 in	100 ft	¼ in to ½ in	¼ in to ½ in	Morse	**6YFV7**
⅜ in	14	0.025 in	100 ft	—	½ in to 2 in	Morse	**4WE45**
⅜ in	14	0.025 in	100 ft	2½ in to 3 in	¼ in to ½ in	Morse	**6YFV8**
½ in	6	0.025 in	100 ft	—	1½ in to 2½ in	Morse	**6YFV4**
½ in	10	0.025 in	100 ft	—	⅜ in to ½ in	Morse	**6YFV5**
½ in	14	0.025 in	100 ft	—	½ in to 2 in	Morse	**4WE46**
½ in	18	0.025 in	100 ft	1 in to 2 in	⅛ in to ¼ in	Morse	**6YFV6**
¾ in	8	0.032 in	—	¼ in to 1 ½ in	¼ in to 1 ½ in	Morse	**60EN40**
¾ in	14	0.025 in	100 ft	—	½ in to 2 in	Morse	**4WE47**
¾ in	14	0.025 in	100 ft	2½ in to 3 in	¼ in to ½ in	Morse	**6YFV9**

4TJ96

2CDN9

Dayton MORSE THE M. K. MORSE COMPANY

Blade Welders and Tension Gauge

Blade Welders—Weld carbon and bimetal blades. Include self-contained grinder.

Blade Tension Gauge—Quickly measures blade tension while the blade is on the machine.

kVA Rating	W (in.)	Thickness (in.)	Amps AC	Voltage	Brand	Item No.
Blade Welders						
1.2	⅛ to ½	0.020 to 0.035	8	120V AC	Dayton	**4TJ96**
4.2	½ to ¾	0.020 to 0.035	20	240V AC	Dayton	**6A489**
Blade Tension Gauge						
Calibrated to measure in.-lb. and kg/cm^2					Morse	**2CDN9**

Dayton

Roller Head Stands

Chrome-plated steel rollers with double-sealed ball bearings. Mounting holes in base. Horizontal and "V" heads are interchangeable on common base.

"V" Roller Head—Used to support bar stock, pipe, tube, conduit, or other round material. Two 2" x 5" rollers accommodate material from 1" to 18" in diameter.

Horizontal Roller Head—Used to support bar stock, sheet metal, beams, or other flat material. Single 2" x 14" roller protrudes above the head casting, allowing use with material wider than the roller.

"V" Roller Head
6Z765

Horizontal Roller
Head 6A819

Description	Load Capacity	Height Range	W	Item No.
"V" Roller Head With Stand	2000 lb.	23" to 38"	14"	**6Z765**
Horizontal Roller Head With Stand	2000 lb.	23¼" to 37"	16¼"	**6A819**

LENOX

Sawing Fluids

Provide excellent cooling and lubrication when machining a wide variety of metals. Do not contain chlorine, sulphur, silicone, or carcinogens.

5EGD4

Description	1 GAL. Item No.	5 GAL. Item No.	55 GAL. Item No.
Semi-Synthetic Fluid	**5EGC7**	**5EGC8**	**5EGC9**
Synthetic Oil for Spray Application, Blue, For Nonferrous Metals	—	**5EGD4**	—
Synthetic Oil for Spray Application, Green, General Purpose	**5EGD5**	**5EGD6**	—

Ironworkers

Generate high-pressure hydraulic force to perform different metal-forming actions such as punching, shearing, forming, bending, pressing, and notching on thick plate metal, angles, and bars. They have separate tooling stations for each function and accept compatible add-on stations for additional functions. **Hydraulic Ironworkers** have a hydraulic pump to drive different metal-forming actions. **Ironworkers with External Hydraulic Power Output** use a hydraulic pump to drive different metal-forming actions and an external output to power other compatible hydraulic tools. They eliminate the need for a separate hydraulic power unit to run additional tools such as benders, rollers, and presses.

Hydraulic
15V750

Eternal Hydraulic Power Output
53DK34

External Hydraulic Output Force	Included Tool Types	No. of Stations	Punch Capacity Mild Steel	Punch Throat Depth	Notcher Capacity Mild Steel	Flat Bar Shear Capacity Mild Steel	Tool Series	Brand	Mfr. Model	Item No.
Hydraulic Ironworkers										
115V AC ; Single-Phase										
45 Tonf	Punch	2	—	3 ¾ in	—	—	MP	Metalpro	MP4500FS	**1UC51**
50 Tonf		2	—	3 ¾ in	—	—	MP	Metalpro	MP5000FS	**49LX78**
230V AC ; Single-Phase										
50 Tonf	Angle Shear, Flat Shear, Pipe Notcher, Punch, Round Shear, Square Shear	5	⅞ in x ¼ in	6 in	2 in x 3.5 in x 0.281 in	10 in x 0.375 in	SW	Baileigh Industrial	SW-501	**15V750**
62 Tonf		5	1 ⅛ in x ⅜ in	8 in	2 in x 3.5 in x 0.312 in	13.5 in x 0.5 in	SW	Baileigh Industrial	SW-621	**31XW02**
230V AC ; Three-Phase										
66 Tonf	Punch	5	—	9 7⁄16 in	—	—	MSIW	Marvel	MSIW66S	**419J32**
192 Tonf		5	—	24 9⁄16 in	—	—	MSIW	Marvel	MSIW192DX	**419J42**
460V AC ; Three-Phase										
60 Tonf		5	—	10 in	—	—	MSIW	Marvel	MSIW60D	**419J35**
93 Tonf	Punch	5	—	14 in	—	—	MSIW	Marvel	MSIW93D	**419J39**
192 Tonf		5	—	24 9⁄16 in	—	—	MSIW	Marvel	MSIW192DX	**419J43**
Ironworkers with External Hydraulic Power Output										
230V AC ; Single-Phase										
50 Tonf	Punch	4	⅝ in	7 in	—	—	IW50	Edwards	IW50-1P230-AC500	**53DK32**
55 Tonf		4	⅝ in	7 ½ in	—	—	IW55	Edwards	IW55-1P230-AC500	**53DK34**
230V AC ; Three-Phase										
60 Tonf		4	¾ in	8 ⅞ in	—	—	IW60	Edwards	IW60-3P230-AC500	**53DK37**
65 Tonf	Punch	5	¾ in	9 ¾ in	—	—	IW65	Edwards	IW65-3P230-AC600	**53DK39**
100 Tonf		5	1 in	11 in	—	—	IW100DX	Edwards	IW100DX-3P230-AC800	**53DK45**
460V AC ; Three-Phase										
50 Tonf		4	⅝ in	7 in	—	—	IW50	Jet	IW50-3P460-AC500	**56LZ76**
60 Tonf	Punch	4	¾ in	8 ⅞ in	—	—	IW60	Jet	IW60-3P460-AC500	**56LZ78**
100 Tonf		4	1 in	11 in	—	—	IW100	Jet	IW100-3P460-AC600	**56LZ81**

Description	Brand	Mfr. Model	Item No.
Accessories			
Add-On Notcher Stations			
Angle Notcher Type Compatible Model IW100, IW120	Edwards	AC0126	**53DK90**
Pipe Notcher Type Compatible Model ELT65110, IW120, IW55	Edwards	AC0925C	**53DL05**
Add-On Press Brake Stations			
Compatible Model: MP4000, MP4000FS, MP4500FS, MP5000FS	Metalpro	MP4510	**1UC52**
Cutting Gauges & Backstops			
Compatible Tool Series: 100 TON, 100 TON Deluxe, 120 TON, 25T, 40 TON C, 50 TON, 55 TON, 60 TON, 65 TON, 75 TON, Elite 110, Elite 110/65	Edwards	PR135	**53DK70**
Compatible Tool Series: 100 TON, 100 TON Deluxe, 120 TON, 50 TON, 55 TON, 60 TON, 65 TON, 75 TON, Elite 110, Elite 110/65	Edwards	AC1011	**53DK69**
Hydraulic Power Units			
230V AC Single-Phase, 5 hp	Edwards	HAT001	**53DK57**
230V AC Three-Phase, 5 hp	Edwards	HAT002	**53DK58**
Punching Dies			
Compatible Model: MP4000, MP4000FS, MP4500FS, MP5000FS, ¼ in Die Size	Metalpro	MP8000	**3ZJ49**
Compatible Model: MP4000, MP4000FS, MP4500FS, MP5000FS, ⅜ in Die Size	Metalpro	MP8004	**3ZJ51**

Manual Sheet Metal Combination Machines

Feature separate tooling stations for each function and eliminate the need for individual, dedicated-purpose machines. Suitable for cutting, bending, or rolling lighter-gauge sheet metal than hydraulic-powered ironworkers.

Brake Capacity Mild Steel	Shear Capacity Mild Steel	Roller Capacity Mild Steel	Finger Width	Maximum Bend Angle	Brand	Item No.
Shear, Roller						
20 ga	20 ga	20 ga	1 in, 1 ½ in, 2 in, 2 ½ in, 4 in, 7 in, 9 in, 10 in, 15 in	90 °	Baileigh Industrial	**31XV62**
Shear, Roller, Bender						
16 ga	16 ga	16 ga	1 in, 1 ½ in, 2 in, 2 ½ in, 4 in, 7 in, 9 in, 10 in, 15 in	90 °	Baileigh Industrial	**15V785**
19 ga	19 ga	19 ga	1 in, 2 in, 3 in, 6 in, 8 in, 10 in	90 °	Dayton	**13W869**
20 ga	20 ga	20 ga	2 in, 3 in, 6 in, 8 in, 10 in	150 °	Jet	**42W892**
20 ga	20 ga	20 ga	1 ½ in, 2 in, 2 ½ in, 4 in, 7 in, 10 in, 12 in	150 °	Jet	**42W893**

Shear, Roller, Bender
15V785

Box and Pan Brakes

Have a segmented, top beam that can fabricate multiple bends in sheet metal workpieces and form boxes, trays, and pans. **Manual Box and Pan Brakes** need manual effort to clamp the top beam and lift the folding bar to make bends in sheet metal. They are commonly used in areas or on jobsites without access to power. **Hydraulic Box and Pan Brakes** have hydraulic cylinders to apply force to clamp the top beam and lift the folding bar to make more controlled bends with less effort than manual brakes. They are used for longer bends and thicker materials than manual brakes.

Finger Style	Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Bending Length	Maximum Bend Angle	Finger Width	Brand	Item No.
Manual Box & Pan Brakes								
Hand Lever								
Top and Bottom Edge	12 ga	18 ga	8 ga	51 in	135 °	3 in, 4 in, 5 in, 20 in	Dayton	**13W877**
Top Edge	12 ga	16 ga	10 ga	48 in	135 °	3 in, 4 in, 5 in, 6 in	Baileigh Industrial	**31XT93**
	12 ga	16 ga	10 ga	96 in	135 °	3 in, 4 in, 5 in, 6 in	Baileigh Industrial	**18F316**
	12 ga	18 ga	10 ga	—	135 °	3 in, 4 in, 5 in	Jet	**48RJ43**
	14 ga	18 ga	10 ga	48 in	135 °	3 in, 4 in, 25 in	Baileigh Industrial	**31XT94**
	16 ga	18 ga	14 ga	—	135 °	2 ½ in, 3 in, 3 ½ in, 4 in, 5 in, 6 in, 12 in	Jet	**48RJ42**
	16 ga	22 ga	12 ga	30 ¼ in	135 °	2 in, 3 in, 4 in	Dayton	**13W876**
	16 ga	22 ga	14 ga	—	135 °	2 in, 3 in, 4 in	Jet	**48RJ44**
Hydraulic Box & Pan Brakes								
Foot Pedal, Hand Lever								
—	10 ga	12 ga	8 ga	48 in	135 °	3 in, 4 in, 5 in, 6 in	Baileigh Industrial	**31XT92**
	10 ga	12 ga	8 ga	96 in	135 °	3 in, 4 in, 5 in, 6 in	Baileigh Industrial	**31XU02**
	12 ga	16 ga	8 ga	96 in	135 °	3 in, 4 in, 5 in, 6 in	Baileigh Industrial	**31XU03**

Manual
13W877

Hydraulic
31XT92

Electric
18F204

Hydraulic
31XV42

Plate and Slip Rollers

Machines feed sheet metal or metal plates between their long, cylindrical rollers to form flat workpieces into rolls. They produce slight curves or tight rolls depending on the roller positioning, **Electric Plate Rollers** can roll thinner plates than most hydraulic models, while **Hydraulic Plate Rollers** can roll thicker plates than most electric models. **Manual Slip Rollers** have a hand crank to create curves and form rolls in sheet metal.

Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Maximum Bending Length	Minimum Bend Radius	Cone Rolling	No. of Rollers	Top Roller Diameter	Bottom Roller Diameter	Brand	Item No.
Electric Plate Rollers										
110V AC, Single-Phase										
—	20 ga	12 ga	50 in	2 ¼ in	Yes	3	3 in	3 in	Baileigh Industrial	**31XV94**
115/230V AC, Single-Phase										
—	22 ga	14 ga	50 in	2 in	Yes	3	3 in	3 in	Jet	**18F204**
115/230V AC, Three-Phase										
—	22 ga	14 ga	50 in	2 in	Yes	3	3 in	3 in	Jet	**42W899**
220V AC, Single-Phase										
—	20 ga	12 ga	50 in	2 ¼ in	Yes	3	3 in	3 in	Baileigh Industrial	**31XV93**
230/460V AC, Three-Phase										
14 ga	18 ga	12 ga	60 in	5 ¼ in	Yes	3	3 ½ in	3 ½ in	Jet	**53ZC94**
Hydraulic Plate Rollers										
220V AC, Single-Phase										
13 ga	16 ga	10 ga	48 in	5 ¼ in	Yes	3	3 ½ in	3 ½ in	Baileigh Industrial	**31XV44**
220V AC, Three-Phase										
3 ga	12 ga	0.312 in	48 in	8 ⅞ in	Yes	3	8 ⅞ in	8 ⅞ in	Baileigh Industrial	**31XV42**
3 ga	12 ga	0.312 in	60 in	10 ½ in	Yes	3	7 in	7 in	Baileigh Industrial	**31XV45**
9 ga	14 ga	7 ga	48 in	7 ⅛ in	Yes	3	4 ¾ in	4 ¾ in	Baileigh Industrial	**31XV43**
9 ga	14 ga	7 ga	72 in	8 ⅞ in	Yes	3	5 15⁄16 in	5 15⁄16 in	Baileigh Industrial	**31XV48**
Manual Slip Rollers										
—										
16 ga	20 ga	12 ga	50 in	2 ¼ in	Yes	3	3 in	3 in	Baileigh Industrial	**31XV95**
16 ga	20 ga	14 ga	50 in	2 in	No	3	3 in	3 in	Jet	**18F208**
16 ga	22 ga	12 ga	36 in	1 in	Yes	3	2 in	2 in	Dayton	**13W882**
16 ga	22 ga	12 ga	50 in	1 ½ in	Yes	3	3 in	3 in	Dayton	**13W883**
19 ga	24 ga	15 ga	24 in	¾ in	Yes	3	1 ½ in	1 ½ in	Dayton	**13W881**

Electric
31XU32

Bead Rollers

Machine tools pass sheet metal between two rolling dies to form ridges, steps, and other profile shapes. Bead rollers accept compatible forming dies to change profile shapes and create offsets or flanges. **Electric Bead Rollers** can produce more uniform beading and bead heavier-gauge sheet metal than manual models. **Manual Bead Rollers** have a hand crank to turn their dies and add beads to sheet metal. Models can bead lighter-gauge sheet metal than electric models.

Throat Depth	Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Adjustable Depth Stop	Includes	Brand	Item No.
Electric Bead Rollers							
24 in	16 ga	20 ga	14 ga	Yes	Adjustable Depth Stop, Roll Holder, Stand	Baileigh Industrial	**31XU33**
36 in	16 ga	20 ga	14 ga	Yes	—	Baileigh Industrial	**31XU32**
36 in	16 ga	20 ga	14 ga	Yes	Adjustable Depth Stop, Roll Holder, Stand	Baileigh Industrial	**18F321**
Manual Bead Rollers							
8 in	18 ga	24 ga	14 ga	Yes	—	Dayton	**45J327**
18 in	18 ga	22 ga	—	Yes	(6) Roll Sets, Stand	Baileigh Industrial	**31XU34**

Air-Powered
18F220

Foot Pedal
13W878

Hydraulic
15V784

Straight Machining Shears

Tools drive their cutting blades through sheet metal to leave a clean, straight-edged cut. They hold the sheets on their table between the blades or dies, which press down to make the cut.

Air-Powered Machining Shears—Run cooler and typically have a long life compared to electric and hydraulic shears. Shears cut heavier-gauge sheet metal with less effort than manual models.

Foot Pedal Machining Shears—Have a pedal that operators press down to engage the cutting blades. They leave both hands free to position and hold the sheet metal.

Hydraulic Machining Shears—Use hydraulic power to operate their cutting blades. They make clean cuts with great force to speed production.

Maximum Cutting Capacity of Flat Mild Steel	Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Back Gauge Length	Front Gauge Length	Adjustable Depth Stop	Brand	Item No.
Air-Powered Machining Shears								
52 in	16 ga	20 ga	—	24 in	24 in	Yes	Baileigh Industrial	**31XV77**
	16 ga	22 ga	—	29 ½ in	35 ¼ in	—	Jet	**18F220**
Foot Pedal Machining Shears								
40 in	19 ga	23 ga	15 ga	30 in	37 in	Yes	Dayton	**13W872**
52 in	16 ga	20 ga	12 ga	33 in	20 in	Yes	Baileigh Industrial	**31XV64**
	16 ga	20 ga	14 ga	28 in	22 in	Yes	Jet	**48RJ41**
	16 ga	21 ga	18 ga	30 in	37 in	Yes	Dayton	**13W878**
Hydraulic Machining Shears								
52 in	0.25 in	12 ga	0.312 in	23 ⅝ in	39 ⅜ in	No	Baileigh Industrial	**31XV72**
	8 ga	12 ga	6 ga	23 ⅝ in	39 ⅜ in	No	Baileigh Industrial	**31XV74**
	10 ga	13 ga	7 ga	24 in	24 in	No	Baileigh Industrial	**31XV75**
	10 ga	16 ga	7 ga	23 ⅝ in	39 ⅜ in	No	Baileigh Industrial	**15V784**
	14 ga	18 ga	10 ga	24 in	24 in	No	Baileigh Industrial	**31XV76**
60 in	10 ga	13 ga	7 ga	24 in	24 in	No	Baileigh Industrial	**31XV78**
	14 ga	18 ga	12 ga	24 in	24 in	No	Baileigh Industrial	**15V783**
80 in	10 ga	13 ga	8 ga	23 ⅝ in	39 ⅜ in	No	Baileigh Industrial	**31XV82**
	10 ga	13 ga	8 ga	24 in	24 in	No	Baileigh Industrial	**31XV81**
100 in	10 ga	16 ga	10 ga	24 in	24 in	No	Baileigh Industrial	**31XV65**
120 in	0.5 in	3 ga	0.625 in	31 ½ in	39 ⅜ in	No	Baileigh Industrial	**31XV71**
	10 ga	16 ga	7 ga	24 in	24 in	No	Baileigh Industrial	**31XV67**

Rotary
Blade
31XV23

Straight
Blade
13W879

Rotary and Straight Blade Bench Shears

Manual shears use their cutting blades to slice through sheet metal and are worktable mountable. Their throatless design allows long cuts along the edges of materials

Rotary Blade Bench Shears—Roll sheet metal between their cutting wheels to make straight, curved, and irregular cuts.Shears are commonly used to make rounded and intricate cuts to shape workpieces.

Straight Blade Bench Shears— Make straight cuts by pressing their blades through metal sheets, thin plates, tubes, and bar stock.

Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Shearing Length	Brand	Item No.
Rotary Blade Bench Shears					
14 ga	—	14 ga	—	Baileigh Industrial	**31XV23**
Straight Blade Bench Shears					
0.236 in	10 ga	0.331 in	—	Dayton	**13W879**
6 ga	—	5 ga	5 ¼ in	Baileigh Industrial	**45AW46**

Shrinker Stretchers

Compress sheet metal to form inside curves or expand it to form outside curves. Their jaws clamp onto material and either pull it together to shrink it or push it apart to stretch it. Stretchers are typically used to curve workpieces that already have a right-angle bend, especially when forming patch panels for door frames, windshield channels, trunk gutters, and other automotive and framing applications.

Foot Pedal Shrinker Stretchers—Pedal is pressed down to engage the jaws and add a curve to workpieces while both hands are free to position and hold the material. They can shape heavier-gauge sheet metal than hand-operated models but lighter gauges than hydraulic units.

Hand-Operated Shrinker Stretchers—Hand lever manually engages the jaws and adds a curve to workpieces. They shape lighter-gauge materials than foot pedal and hydraulic models.

Hydraulic Shrinker Stretchers—Deliver a powerful downstroke for greater forming force than manual machines. Tools shape heavier-gauge sheet metal than manual models and reset more quickly between strokes to speed production.

Foot Pedal 18F322

Hand-Operated 45J328

Hydraulic 31XV24

Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Throat Depth	Jaw Width	Brand	Item No.
Foot Pedal Shrinker Stretchers						
16 ga	22 ga	12 ga	8 in	2 in	Dayton	**45J331**
16 ga	—	14 ga	6 in	1 ¾ in	Baileigh Industrial	**18F322**
18 ga	—	16 ga	1 ½ in	2 in	Baileigh Industrial	**31XV26**
Hand-Operated Shrinker Stretchers						
18 ga	22 ga	16 ga	1 in	1 ¾ in	Woodward Fab	**30NX68**
18 ga	24 ga	14 ga	1 in	1 ¾ in	Dayton	**45J328**
16 ga	—	14 ga	8 in	2 ⅛ in	Baileigh Industrial	**31XV25**
Hydraulic Shrinker Stretchers						
14 ga	—	12 ga	6 in	2 in	Baileigh Industrial	**31XV24**

Sheet Metal Punches

Used to cut clean, accurate holes in flat metal sheets and plates. They hold workpieces in the throat of the tool and drive a punch through the material and into a die to create a hole. Punches accept different punch and die sets to make holes of the desired shape and size and are commonly used to punch holes in automotive panels and manufacturing components.

Manual Sheet Metal Punches—Hand lever drives the punch as it cuts holes in light-gauge sheet metal and plates.

Sheet Metal Capacity Mild Steel	Throat Depth	Included Dies	Adjustable Depth Stop	Item No.
Manual Sheet Metal Punches				
22 ga	1 ⅛ in	⅛ in Punch and Die, 3/16 in Punch and Die	Yes	**5KNV3**

Sheet Metal Notchers

- 90° notch angle except 29CK41 is 180°

Carve out rectangles, triangles, and other shapes along the edges of flat metal sheets. Their cutting blades or dies shear through workpieces to make clean cuts and are commonly used to remove the corners of sheets and leave flaps that can be folded in to form trays, pans, and boxes.

Air-Powered Sheet Metal Notchers—Have fewer moving parts, weigh less, run cooler, and have long life compared to electric notchers. They cut heavier-gauge sheet metal with less effort than manual notchers.

Corded Sheet Metal Notchers—Electric motor operates their cutting blades to cut heavier-gauge sheet metal with less effort than manual notchers.

Manual Sheet Metal Notchers—12G601 has a foot pedal and 13W870 has a hand lever to engage their cutting blades. The lower blade can be reversed and sharpened for long life. Their triangular ram controls cutting head alignment to make accurate cuts in box, chassis, and panel blanks. They can notch lighter-gauge sheet metal compared to corded and air-powered models.

Sheet Metal Capacity Mild Steel	Blade Length	Notch Size	Air Pressure	Air Inlet	Air Consumption	Brand	Item No.
Air-Powered Sheet Metal Notchers							
11 ga	5 in	5 in x 5 in	115 psi	¼ in	4 cfm	Baileigh Industrial	**31XV86**
11 ga	5 ⅛ in	1 in x 5 ⅛ in	115 psi	⅜ in	155 cfm	Jet	**53ZC89**
14 ga	—	3/16 in x 3/16 in	90 psi	¼ in	3 cfm	Viking Air Tools	**29CK41** *

Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Blade Length	Notch Size	Current	Brand	Item No.
Corded Sheet Metal Notchers							
230V AC ; Three-Phase							
3 ga	10 ga	0 ga	8 ½ in	8 ½ in x 8 ½ in	20 A	Baileigh Industrial	**31XV84**
9 ga	13 ga	7 ga	7 ¾ in	7 ¾ in x 7 ¾ in	20 A	Baileigh Industrial	**31XV85**
9 ga	—	—	7 ¾ in	—	8.6 A	Jet	**53ZC90**

Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Blade Length	Brand	Item No.
Manual Sheet Metal Notchers					
1.5 mm	0.8 mm	2 mm	3 ⅛ in	Dayton	**12G601**
1.5 mm	0.8 mm	2 mm	6 in	Dayton	**13W870**

180° notch angle.

Air-Powered 31XV86

Corded 53ZC90

Manual 12G601

English Wheels

Form curves and contours on sheet metal as the metal rolls back and forth between two anvil wheel dies. The user can adjust the wheel pressure and move workpieces along the wheels by hand as the wheel dies press against the metal to slowly stretch and round it. Tools can accept dies with different contours to get the desired curve on the workpiece. Suitable for shaping metal for tanks, fenders, and other domed parts.

45J341

Throat Depth	Sheet Metal Capacity Mild Steel	Sheet Metal Capacity Stainless Steel	Sheet Capacity Aluminum	Top Wheel Diameter	Bottom Wheel Diameter	Number of Bottom Dies	Number of Top Dies	Brand	Item No.
28 in	18 ga	23 ga	14 ga	8 in	—	6	1	Dayton	**45J341**
37 ¾ in	16 ga	—	14 ga	6 in	3 in	9	3	Baileigh Industrial	**18F323**
45 in	16 ga	22 ga	8 ga	6 in	3 in	10	4	Jet	**18F205**
28 in	16 ga	20 ga	14 ga	8 in	3	6	1	Woodward Fab	**30NX58**

Powered Planishing Hammers

Air-Powered 18F219

Electric 31XV19

Variable speed tools shape and smooth sheet metal workpieces by striking them with forming dies. They hold material between two dies and repeatedly strike the top die (hammer) against the bottom die, and can accept die sets of various sizes and shapes to form metal to the desired surface profile. They are commonly used to shape, and finish domed workpieces and to remove dents or wrinkles from damaged workpieces.

Air-Powered Planishing Hammers—Operate on compressed air and generally strike faster, contain fewer moving parts, run cooler, and have long life compared to electric models.

Electric Planishing Hammers—Corded units can operate in locations where a compressed air supply is not available.

Sheet Metal Capacity Steel	Sheet Metal Capacity Stainless Steel	Sheet Metal Capacity Aluminum	Throat Depth	Hammer Mode	Anvil Die Type	Hammer Die Type	Brand	Item No.
Air-Powered Planishing Hammers								
50 to 100 psi, Male Air Inlet, 4 cfm Air Consumption								
16 ga	22 ga	16 ga	19 ⅝ in	Rigid	Flat, 6 in, 12 in	Flat	Woodward Fab	**30NX65**
90 psi, ¼ in NPT Air Inlet, 8.8 cfm Air Consumption								
16 ga	24 ga	14 ga	24 in	—	—	Radius	Jet	**18F219**
90 to 120 psi, Male Air Inlet, 12 cfm Air Consumption								
16 ga	—	14 ga	24 in	Non-Rigid	Radius	Flat, Radius	Baileigh Industrial	**31XV28**
Electric Planishing Hammers								
115V AC								
16 ga	20 ga	12 ga	19 in	Rigid	Radius	Flat	Baileigh Industrial	**31XV27**
230V AC ; Single-Phase								
16 ga	20 ga	12 ga	19 in	Rigid; Non Rigid	Radius	Flat	Baileigh Industrial	**31XV19**
230V AC ; Three-Phase								
11 ga	16 ga	2 ga	37 in	Rigid; Non Rigid	Radius	Flat	Baileigh Industrial	**45AW34**

Electric 31XW09

Manual 30NX63

Pipe and Tube Notchers

Create curved or squared profiles on the ends of pipes, tubes, and bars. Their cutting blades or dies shear through workpieces to make clean cuts and are used to cope pipe and tube ends for joining or saddling and forming drains for galvanizing.

Minimum Compatible Pipe Size	Maximum Compatible Pipe Size	Maximum Notch Diameter	Current	Horsepower	Brand	Item No.
Electric Pipe & Tube Notchers						
115V AC ; Single-Phase						
½ in	3 in	3 in	20 A	½ hp	Baileigh Industrial	**31XW09**
230V AC ; Single-Phase						
¼ in	2 in	2 in	20 A	—	Baileigh Industrial	**31XW06**
¼ in	2 in	2 in	9 A	2 hp	Jet	**53ZC91**
Manual Pipe & Tube Notchers						
—	2 in	2 in	—	—	Baileigh Industrial	**31XW08**
¼ in	3 in	3 in	—	—	Woodward Fab	**30NX63**
¾ in	1 ¼ in	1 11/16 in	—	—	Heck Industries	**30NX60**
1 ½ in	2 in	2 ⅜ in	—	—	Heck Industries	**30NX61**

Electric 45AW40

Manual 45J336

Angle, Bar & Tube Benders

Machines wrap metal angle, bar, and tube stock onto a central die, bending them to a radius matching the die. They accept compatible dies of different sizes to get larger or smaller bends and are used to form frames, railings, vehicle roll cages, and electrical conduit or hydraulic lines.

Compatible Shape	Maximum Bar Thickness	Maximum Bar Width	Maximum Bend Angle	Brand	Item No.
Electric Bar & Tube Benders					
230V AC ; Single-Phase, 20 A					
Solid Rod, Solid Round, Solid Square	1 in	1 in	—	Baileigh Industrial	**45AW40**
Manual Bar & Tube Benders					
Universal	¼ in	4 in	120 °	Dayton	**45J336**
Universal	5/16 in	2 in	200 °	Dayton	**45J342**

Bench Grinders and Buffers

49H004

18F215

2LKR9

16W005

For Max. Wheel Dia.	For Max. Wheel Thickness	Arbor Size	Wheels Center-Center	Grinding Wheel Grit	HP	Voltage	Amps	Max. RPM	No Load RPM	Dust Collection	Brand	Item No.
General Purpose Grinders, Single-Phase												
6 in	—	½ in	20"	36/60	⅝	120V	4.2	3450	3450	—	DeWalt	**4PC39**
8 in	—	⅝ in	21¾"	36/60	¾	120V	4.2	3600	3600	—	DeWalt	**4PC40**
	1 in	⅝ in	11½"	60/120	⅓	120V	3.0	1725	1725	—	Dayton	**49H004**
Heavy-Duty Grinders, Single-Phase												
6 in	⅝ in	½ in	14¼"	36	¼	120/240V	3.0/1.5	3450	3450	—	Dayton	**2LKR5**
	⅝ in	½ in	14¼"	36/60	⅓	120/240V	3.5/1.75	3450	3450	—	Dayton	**2LKR6**
	¾ in	½ in	14¼"	36/60	½	115V	3.0/1.5	3450	3450	—	JET	**18F215**
7 in	1 in	⅝ in	15½"	36/60	½	120/240V	5.0/2.5	3450	3450	—	Dayton	**2LKR8**
	1 in	1 in	18 29/32"	36/60	1	120V	3.7	3570	3570	Yes	Metabo	**38D139**
8 in	—	⅝ in	16½"	36/60	1	115V	13.6/6.8	3450	3450	—	Dayton	**38UK60**
	1 in	⅝ in	14¼"	36/60	1	115V	3.5/1.75	3450	3450	—	JET	**18F216**
	1 in	⅝ in	15½"	36/60	¾	120/240V	7.0/3.5	3450	3450	—	Dayton	**2LKR9**
	1 in	⅝ in	18"	36/60	1	115V	11/5.5	3600	—	No	JET	**446M31**
	1 in	1 ¼ in	18 29/32"	36/60	1	120V	4.8	3570	3570	Yes	Metabo	**38D140**
10 in	—	1 in	20"	36/120	1½	115V	15.2/7.6	1725	1725	—	Dayton	**38UK62**
	1 in	1 in	14⅞"	24/46	1½	115V	3.5	1725	1725	—	JET	**18F217**
	1 ½ in	1 ¼ in	20 29/32"	36/60	1	120V	7.5	1780	1780	Yes	Metabo	**38D141**
12 in	2 in	1 ¼ in	21¾"	36/60	2	240V	10	1800	—	—	Dayton	**1FYX2** *
Heavy-Duty Grinders, 3-Phase												
8 in	1 in	⅝ in	15⅜"	36/60	¾	220/440V	2.2/1.1	3450	3450	—	Dayton	**2LKT1**
10 in	1 in	1 in	19½"	36/60	1	220/440V	3.3/1.65	1725	1725	—	Dayton	**2LKT3**
12 in	—	1 ¼ in	21"	36/120	3	220V	8.7	1720	—	—	Dayton	**38UK64** *
Heavy-Duty Grinder/Buffers, Single-Phase												
6 in	¾ in	½ in	15"	36	⅓	120/240V	3.5/1.75	3450	3450	—	Dayton	**16W005**
8 in	1 in	⅝ in	16¾"	36	¾	120/240V	7.0/3.5	3450	3450	—	Dayton	**16W006**

Description	For Use With	Brand	Item No.
Accessories			
Grinding Wheel Dresser, 1¼" Dia. x 8½" L	Grinding Wheel Up to 1 in Width	Dayton	**2X951**
Grinding Wheel Dresser, 2⅜" Dia. x 14½" L	Grinding Wheel Up to 3 in Width	Dayton	**6Z851**
Eye Shield Kit	Most Bench Grinders	Dayton	**5PZP2**
Heavy-Duty Stand w/Quench Pot, 31¾"H, 10 L x 11 W" Table Size	Most Bench Top Tools	Dayton	**4Z154**
Bench Grinder Stand, 31½"H	5 in to 8 in Bench Grinders	Dayton	**49H005**

** Includes floor stand.*

Arbor Presses

Note: Pneumatic and Compound Arbor Presses are available on Grainger.com®.

Standard—Dayton® models provide heavy pressure, and feature a machined table with a slotted, removable, 4-position revolving anvil. JET model has precision-machined base, ram housing, framework, and 4-position bottom plate. Dake® single-leverage press has a shimmed ram cap and adjustable handle.

Ratcheting—Use for consistent application of force when needed for broaching or pressing large items. Ratchet device lets the lever be used in the most convenient position. Has counterweight for rapid handle return and quick ram advance via the side-mounted handwheel. Rotating table has 4 slots.

4Z328

4Z329

40F018

40F020

Force in Tons	Swing (in.)	Table Work Surface (in.)	Anvil Dia. Work Area (in.)	Range of Slot Widths (in.)	Max. Work Height (in.)	Ram Dim. (in.)	Ram Hole Dia. x Depth (in.)	H (in.)	Base Size (in.)	Brand	Item No.
Standard											
1 ton	8 in	5¾ x 4¼ in	4 ½ in	45⁄64 to 1 27⁄64	6 in	1 x 1	½ x 1	11 in	6⅛ x 10½ in	Dayton	**4Z328**
2 ton	11 in	7¼ x 6 in	6 ¾ in	3⁄32 to 2 13⁄64	8 in	1¼ x 1¼ in	½ x 1 in	15 in	7⅞ x 15¾ in	Dayton	**4Z329**
3 ton	7 in	5.5 x 5.5	6 ⅞ in	13⁄16 to 1 13⁄16	11 ½ in	1¼ x 1¼ x 16.5	—	19 in	7¼ x 18	Dake	**40F018**
	10 ¾ in	—	6 11⁄16 in	—	12 ½ in	1½ x 18	½	21 ½ in	8½ x 18	JET	**42W946**
	12 in	8⅛ x 8½ in	6 ⅝ in	1 to 2	12 ¼ in	1½ x 1½ in	½ x 1 in	21 ¼ in	9½ x 17 ¾	Dayton	**3Z949**
4 ton	16 ¾ in	10 x 10¼ in	9 ½ in	¾ to 2¾	15¾	1¾ x 1¾	½ x 1	27 ¼ in	10 ¾ x 21 ⅛ in	Dayton	**5Z077**
Ratcheting											
3 ton	7 in	5.5 x 5.5	6 ⅞ in	13⁄16 to 1 13⁄16	11 ½ in	1¼ x 1¼ x 16.5	—	19 in	7¼ x 18	Dake	**40F020**

H Frame Hydraulic Presses

For pressing, bending, and straightening operations.

Manual—Dake models feature a single-speed hand pump, and a large dia. single-acting polished piston with a top-mounted gauge. Cylinder can be relocated to the right or left. Table is adjustable. JET® hand-operated presses have pressure gauge for direct pressure readings. Hand crank raises and lowers table, and ram moves laterally.

Electric—Dake® models feature lever control ram advance and a double-acting cylinder. 1-hand ram positioning with 4-way valve hydraulic control. Edwards® presses have rolling cylinder for maximum adaptability, while open-sided design allows longer material to pass through the frame. Electric foot pedal has integrated jog control. Includes hydraulic-assist adjustable worktable height, pressure gauge, and 20-ft. quick-connect hoses. 454R58 and 454R60 offer adjustable up/down stroke control. Adjustable PSI allows the user to set the desired pressure accurately.

Air—Feature industrial-grade hydraulic components, fully-welded solid steel frames, and V-block set. 31XV11 has adjustable table and includes pressure regulator and gauge. Made of rigid, electro-welded steel. 31XV13 has foot pedal and manual hand pump to lift and lower the working table.

40F053

40F046

454R57

31XV11

Frame Capacity (tons)	Cylinder Stroke	Working Height	Working Width	Application	Brand	Mfr. Model	Item No.
Manual							
10	6 in	16"	16 ¾ in	Bending, Forming, Pressing, Punching, Staking and Clamping, Straightening	Dake	972200	**40F053**
10	6 in	38"	16 ¾ in		Dake	972210	**40F054**
15	4 ½ in	—	—	Bending, Pressing, Straightening	Jet	331416	**42W948**
25	—	—	—	—	Westward	—	**1MZJ4**
35	4 ¾ in	—	—	Bending, Pressing, Straightening	Jet	331431	**42W949**
Electric							
25	10 in	44"	28 in	Bending, Forming, Pressing, Punching, Staking and Clamping, Straightening	Dake	909215	**40F046**
50	16 in	41¾"	44 in		Dake	909250	**40F047**
Hydraulic Electric							
55	12 in	42"	39 in	Bending, Crimping, Forming, Maintenance, Metalworking, Pressing, Pressing Bearings	Edwards	HAT8000	**454R57**
55	12 in	42"	39 in		Edwards	HAT8050	**454R58**
110	12 in	48"	37 in		Edwards	HAT9000	**454R59**
110	12 in	48"	37 in		Edwards	HAT9050	**454R60**
Air							
20	7 ½ in	2 to 41"	19 ¼ in	Pressing	Baileigh	HSP-20A	**31XV11**
30	6 in	2 to 44"	22 ½ in		Baileigh	HSP-30A	**31XV12**
50	7 ¾ in	2½ to 44"	28 ½ in		Baileigh	HSP-50A	**31XV13**
75	9 ¾ in	2½ to 34½"	31 ½ in		Baileigh	HSP-75A	**31XV14**

31XU09
2RYN7
21VH72

Belt Grinders

- For replacement belts see Grainger.com®

Baileigh—31XU09 and 31XU10 can accommodate large and uncommon-shaped parts. 31XU08 includes 3 quickly interchangeable grinding tables. 31XU11 has a triangular base to let you pivot the unit to the desired angle. 31XU12 opens to provide a flat grinding position. Vacuum motor extracts and collects metal dust.

Dake®—Advanced belt tracking includes a fixed, vented front wheel for grinding on the wheel radius. Pivots up and down for work height adjustments. Hinged top cover lets you grind large pieces using the entire length of the belt.

Fein—Modular expandable grinders provide rapid material removal and feature an adjustable base and belt tracking system; ideal for metal machining. Detachable chip collection allows easy clean up. Include stand, belt grinder, and 36 grit grinding belt.

JET®—53ZC60 to 53ZC63 feature cast metal frame, integrated dust chute, and quick belt change. 3WRN4 features flat platen; ideal for grinding and refinishing cylindrical shapes. The serrated contact wheel can be used for removing heavy stock, cleaning a weld, or snagging a casting. 3WRR3 and 42W965 tilt 45° out and 20° in. They feature variable-position locks and head adjustment, plain and compound miters, adjustable cast-iron removable platen, and removable upper guard. Include miter gauge and stand. 42W958 and 42W959 pivot up and down; a hinged top cover lets you grind large pieces. Advanced belt tracking has fixed, vented front wheel.

Mounting	HP	Voltage	Phase	Amps AC	Belt Size (in.)	Belt SFPM	Platen Size (in.)	Table Work Surface (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Mfr. Model	Item No.
Baileigh													
Bench	1 ½ hp	110	1	20	2 x 60	800 to 8000	—	—	—	—	—	BG-260-3-110	**31XU09**
	1 ½ hp	220	1	15	3 x 60	800 to 8000	—	—	—	—	—	BG-260-3-220	**31XU10**
Floor	1 ½ hp	110	1	20	2 x 48	3,600 SFPM	—	—	—	—	—	BG-248-3	**31XU08**
	4 hp	220	3	15	3 x 73¾	6,691 SFPM	—	—	—	—	—	BG-379	**31XU11**
	4 hp	220	3	15	6 x 73¾	3,937 SFPM	—	—	—	—	—	BG-679	**31XU12**
Dake													
Floor	4 hp	220/240	3	11.0	3 x 79	6,600 SFPM	3 x 21	1⅝ x 4¾	43 in	22 in	39 in	961001	**40F064**
Dayton													
Bench	½ hp	120/240	1	5.0/2.5	1 x 42	1,800 SFPM	10 x 1½	3 x 3	24 in	16 in	22 in	—	**2RYN6**
	¾ hp	120/240	1	7.0/3.5	2 x 48	4,500 SFPM	12¼ x 2½	2½ x 5	26 in	16 ½ in	25 in	—	**2RYN7**
	¾ hp	120/240	1	7.0/3.5	4 x 36	3,600 SFPM	4½ x 7½	2½ x 5	21 in	20 in	19 in	—	**2RYN8**
Fein													
Floor	4 hp	220.0	3	14.0	3 x 79	2,850 SFPM	3 x 18	3	30 in	20 in	40 in	79012109233	**21VH73**
	4 hp	440.0	3	6.8	3 x 79	2,850 SFPM	3 x 18	3	30 in	20 in	40 in	GX 75	**21VH72**
JET													
Bench	¾ hp	115/230	1	8	1 x 42	5,500 SFPM	—	2¼ x 4½	20 5⁄16 in	18 ⅝ in	20 13⁄32 in	BGB-142	**53ZC60**
	1 hp	115/230	Single	15.0/7.5	2 x 72	4,600 SFPM	—	—	17 in	31 in	17 in	577000	**3WRN4**
	1 ½ hp	115/230	1	7	2 x 60	8,000 SFPM	—	2¼ x 4½	26 11⁄16 in	21 in	23 3⁄32 in	BGB-260-1	**53ZC62**
	3 hp	230/460	3	4	2 x 60	8,000 SFPM	—	2¼ x 4½	26 11⁄16 in	21 in	23 3⁄32 in	BGB-260-3	**53ZC63**
Floor	1 ½ hp	115/230	1	12.6/6.3	6 x 48	2,850 SFPM	6¼ x 14¾	7⅜ x 14¾	58 in	16 in	29 in	414600	**3WRR3**
	1 ½ hp	230	3	4.6/2.3	6 x 48	2,850 SFPM	6¼ x 14¾	7⅜ x 14¾	58 in	16 in	29 in	414601	**42W965**
	4 hp	220	1	15.2	3 x 79	6,600 SFPM	—	—	44 in	25 in	43 in	414610	**42W958**
	4 hp	220	3	4.9/2.2	3 x 79	6,600 SFPM	—	—	44 in	25 in	43 in	414615	**42W959**

3WRR2

Belt/Disc Sanders

Dayton®—Adjustable belt for vertical and horizontal positioning. Include front-mounted On/Off switch and built-in dust collection ports. 6Y945 bench model is direct drive from motor to disc and belt. Includes miter gauge and dust collection port. Floor Models include a quick-release tension mechanism for fast, easy belt changes. Come with tilting table and miter gauge. 49G990 includes an open floor stand.

JET®—42W960 has a deluxe miter gauge that turns and locks for common angles, 45° both left and right. Abrasive belt unit works like a jigsaw, coping saw, and hand file while removing material and finishing. 42W970 has preset stops at 90° and 45° for vertical or horizontal use. Dual thumbscrew belt tracking locks. Floor model 3WRP6 has 2 tilting tables for mitering applications and quick release belt tension mechanism. 3WRR2, 42W962 and 42W963 have a belt that operates at any angle and conforms to curves, angles, or circular finishing and grinding operations. Plain and compound miters are obtained using standard aluminum miter gauge.

Powermatic®—Belt head has an indexing pin with stops at 0°, 45°, and 90°, and a head lock that allows use at any angle in between. Cast-iron table has miter gauge slots and positive stops. Integral dual dust port.

HP	Voltage	Amps AC	Disc Dia. (in.)	Disc Speed (rpm)	Belt Size (in.)	Belt SFPM	Disc Table Size (in.)	Table Work Surface (in.)	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Brand	Mfr. Model	Item No.
Bench Belt/Disc Sanders															
⅓ hp	115V	6.5	8 in	1725	1 x 42	3,000 SFPM	4 x 10	6⅛ x 7⅛	1¼	14 in	22 in	21 in	JET	577003	**18F223**
	120	3.5/1.75	6 in	3500	2 x 42 and 1 x 42	4,400 SFPM	5½ x 8¼	6¾ x 9	1½	23 in	13 in	14 ½ in	Dayton	—	**6Y945**
½ hp	120	4.3	6 in	3600	4 x 36	1,900 SFPM	6¼ x 9	6¼ x 9	2½	28 in	15 in	17 ½ in	Dayton	—	**35GW70**
¾ hp	115	6.5	8 in	3450	2 x 42	3,100 SFPM	10¾ x 7½	10 x 6	1½	20 in	22 ¾ in	20 ½ in	JET	577004	**42W960**
	115	11	9 in	1725	6 x 48	2,258 SFPM	12 x 7½	11 x 5½	4	28 ¾ in	31 in	16 in	JET	708595	**42W970**
1 hp	120	8.0	9 in	2510	6 x 48	1,836 SFPM	6 x 11½	6 x 10	2	32 in	21 in	21 in	Dayton	—	**35GW71**
Floor Belt/Disc Sanders															
¾ hp	115	12	9 in	1725	6 x 48	2,258 SFPM	7½ x 12	5½ x 11	4	28 ½ in	29 in	16 in	JET	708597K	**25CH40**
1 hp	115	15.0/7.5	10 in	2100	6 x 48	1,650 SFPM	7½ x 13	6 x 10½	3	61 in	23 in	26 in	JET	414550B	**3WRP6**
	120/240	9/4.5	9 in	3450	6 x 48	2,700 SFPM	5⅞ x 11¾	5⅞ x 9⅞	2	55 in	20 in	27 in	Dayton	—	**49G990**
1½ hp	115	20/10	12 in	1960	6 x 48	2,850 SFPM	12 x 16⅜	7⅜ x 14¾	3	58 in	19 in	29 in	JET	414551	**3WRR2**
	115/230	12.6	12 in	1725	6 x 48	2,500 SFPM	16½ x 10	16½ x 10	4 in	34 ½ in	22 in	35 in	JET	708598K	**45PD06**
	230	6	12 in	1960	6 x 48	2,850 SFPM	12 x 16⅜	7⅜ x 14¾	4	58 in	19 in	26 in	JET	414553	**42W963**
	230	10	12 in	1960	6 x 48	2,850 SFPM	12 x 16⅜	7⅜ x 14¾	1½	58 in	19 in	26 in	JET	414552	**42W962**
2 hp	230/460	7	12 in	2375	6 x 48	2,410 SFPM	17¼ x 9	13¼ x 7½	4	54 ½ in	31 ¼ in	24 in	Powermatic	1791292K	**42W957**

Surface Grinders

- Noncoolant fed
- 220V, 60 Hz
- 3-phase

All units include grinding wheel, auto lube system, wheel adapter/ flange, wheel balancing arbor, work light, and diamond dresser.

Manual 446P01—One V and one flat way for longitudinal travel for high precision grinding. Provides accurate slot grinding by using saddle locking system. Wire rope movement with double-nut backlash eliminator. Spindle runout accuracy of 0.0001". Working surface is 6" x 18.3".

Automatic 446P09 to 446P14—Ensure accurate alignment of longitudinal and cross movement with one-piece T-base casting. Provides automatic crossfeed with intermittent and continuous mode.

Automatic 446P06 to 446P08—Constructed with two V longitudinal ways and two cross V ways, ensuring accurate alignment between working surfaces.

Mechanical valve controls the motion of table, minimizing vibration when table reaches on end and reverses back.

Automatic 446P02, 446P03, and 446P04—Have double V ways for cross travel (one V and one flat for longitudinal travel), providing automatic table and cross feed. Saddle locking system provides accurate slot grinding. Hydraulic system with oil tank prevents table from vibrating. Working surface from 6” x 18.3” to 8” x 20”. 446P04 has a touch screen NC downfeed control.

446P01

Max. Grinding Length	Max. Grinding Width	Grinding Wheel Dia.	Spindle RPM	Crossfeed Handwheel per Revolution	Crossfeed Table Travel	Longitudinal Table Speed	Longitudinal Table Travel	Overall Length	Overall Width	Mfr. Model	Item No.
Manual											
12 ⅝ in	6 ¾ in	8 in	10,000	0.100"	6¾"	196 to 984 in/min	12⅝"	18 ½ in	6 5/16 in	SG-618	**446P01**
Automatic											
12 ⅝ in	6 ¾ in	1 in	10,000	0.100"	6¾"	196 to 984 in/min	12⅝"	21 45/64 in	8 45/64 in	SG-820-2A	**446P03**
	6 ¾ in	8 in	3600	0.100"	6¾"	196 to 984 in/min	12⅝"	19 45/64 in	5 29/32 in	SG-618-2A	**446P02**
	6 ¾ in	8 in	10,000	0.100"	6¾"	196 to 984 in/min	12⅝"	21 45/64 in	8 45/64 in	SG-820-2AN	**446P04**
20 15/32 in	8 ⅛ in	1 in	10,000	0.200"	6¾"	196 to 984 in/min	24⅜"	32 in	16 in	SH-1632	**446P07**
	8 ⅛ in	14 in	10,000	0.200"	6¾"	196 to 984 in/min	18¾"	24 in	12 in	SH-1224	**446P06**
	8 ⅛ in	14 in	10,000	0.200"	11¾"	196 to 984 in/min	18¾"	40 in	16 in	SH-1640	**446P08**
	11 in	1 ½ in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	47 in	20 in	SH-2047	**446P09**
	11 in	14 in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	60 in	20 in	SH-2060	**446P10**
	11 in	14 in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	47 in	24 in	SH-2447	**446P11**
	11 in	14 in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	60 in	24 in	SH-2460	**446P12**
	11 in	14 in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	87 in	24 in	SH-2487	**446P13**
	11 in	20 in	10,000	0.200"	11¾"	196 to 984 in/min	24⅜"	80 in	47 in	SHDC-4780	**446P14**

OD Grinders

- Distance between center: 27 -1/2"
- Infeed range: 0 to 10"
- Max. Grinding dia.: 10"
- Max. Load between centers: 180 lb.
- Spindle rpm: 10,000
- 3-phase, 220V, 60 Hz

Can grind up to 12” outside dia. And 24”, 40”, 60”, and 80” length work. Equipped with manual operated wheelhead infeed, and hydraulic table feed. Electronic control workhead can be swivel by 90° for CCW and CW grinding operations. Table travels on cushion of oil with no metal-to-metal contact. Automatic lubrication system with dual oil cover, prevents coolant from entering into workhead.

446P15 and 446P6 feature variable speed drive.

446P17 wheelhead feed is manually-operated.

466P18 has auto head infeed.

446P19

Coolant Tank Cap.	Swing	Machine Depth	Machine Width	Machine Height	Includes	Mfr. Model	Item No.
21 gal	10 in	54"	87"	74"	(2) Carbide Tip Centers MT3, 5 in Wheel Flange, Auto Lube System, Balancing Arbor, Coolant System, Diamond Dresser with Holder, Grinding Wheel with Flange, Halogen Work Light, Manual Tailstock MT3, Tool Box, Work Head MT3	OD-820-SE	**446P15**
	10 in	90"	90"	76"	(2) Carbide Tip Centers MT3, 5 in Wheel Flange, Auto Lube System, Balancing Arbor, Coolant System, Diamond Dresser with Holder, Grinding Wheel with Flange, Halogen Work Light, Manual Tailstock MT3, Tool Box, Work Head MT3	OD-1020-HE	**446P16**
36.8 gal	10 in	89"	119"	80"	(2) Carbide Tip Centers MT4, 5 in Wheel Flange, Balancing Arbor, Coolant Tank, Diamond Dresser and Stand, Grinding Wheel, Infinite Variable Work Head MT4, Manual Tailstock MT4, Tool Box, Wheel Extractor, Work Light	OD-1324-HE	**446P17**
	10 in	89"	119"	80"	(2) Carbide Tip Centers MT4, 5 in Wheel Flange, Balancing Arbor, Coolant Tank, Diamond Dresser and Stand, Grinding Wheel, Infinite Variable Work Head MT4, Manual Tailstock MT4, Tool Box, Wheel Extractor, Work Light	OD-1324-SE	**446P18**
	15 in	89"	206"	80"	(2) Carbide Tip Centers MT4, 5 in Wheel Flange, Balancing Arbor, Coolant Tank, Diamond Dresser and Stand, Grinding Wheel, Infinite Variable Work Head MT4, Manual Tailstock MT4, Tool Box, Wheel Extractor, Work Light	OD-1380-HE	**446P19**

Sanders

DISC

Use for deburring, chamfering, grinding, and finishing large workpieces.

OSCILLATING SPINDLE

Features 1" oscillating action to reduce friction heat, built-in 2" dust port, and 4 nonskid rubber feet. Tilts to 45°.

OSCILLATING BELT

For edge, face, bevel, and contour applications. Oscillating feature reduces heat build-up. Quick-release lever and control dial help track and replace belts. Cast-iron table moves up or down.

DRUM

Patented conveyor belt TRACKERS™ reduce the need for manual belt adjustments.

2RYN9

42W883

HP	Phase	Voltage	Amps AC	Disc Dia. (in.)	Disc Speed (rpm)	Disc Table Size (in.)	Disc Table Tilt-Out Angle (Deg.)	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Brand	Mfr. Model	Item No.
Disc Sanders														
¾ hp	1	120	7.5	12 in	1720	17¼ x 8⅜	45 °	2	14 ⅜ in	17 ¼ in	17 in	Dayton	—	**2RYN9**
1 ½ hp	1	115/230	20/10	12 in	1960	12 x 16⅜	45 Out	4	43 in	17 in	29 in	JET	414602	**3WRP7**
	1	115	—	12 in	2375	17¼ x 9	45 °	4 in	54 ½ in	31 ¼ in	24 in	Powermatic	1791291K	**45PD10**
2 hp	1	220	15	20 in	1100	25½ x 14½	45 °	—	54 ½ in	28 in	30 ½ in	Baileigh	DG-500	**31XU84**
3 hp	3	460	—	20 in	1725	27½ x 10½	—	3	53 in	28 in	30 in	JET	577011	**42W968**

HP	Voltage	Amps AC	Oscillations per Min.	Table Work Surface (in.)	Brand	Mfr. Model	Item No.
Oscillating Spindle Sander							
0.5 hp	110	7.5	30	14-1/2x14-1/2	JET	708404	**42W883**
Oscillating Belt Edge Sander							
1 ½ hp	115/230V AC	18/9	108	32 x 7	JET	708447	**42W971**
2	220	—	—	—	Baileigh Industrial	ES-6108	**45AW32**

HP	Voltage	Disc Dia.	Dust Collection Port Size (in.)	Overall H (in.)	Overall W (in.)	Overall D (in.)	Brand	Mfr. Model	Item No.
Drum Sander									
1 ½ hp	115	—	4 in	25 in	22 ½ in	39 in	JET	JWDS-1632	**53ZC48**

445L77

CNC Router Tables

BAILEIGH INDUSTRIAL

445L77 comes with software, tooling, and a dust shroud. Cast-iron base, fully assembled. Ideal for sign makers and molding companies. Upload designs using a USB drive, and move the spindle with the handheld controller. Features ball screw X and Y axis movement for accurate positioning, square slideways for clamping, 4 collets, 15 starter router profiles, air-cooled spindle, and 4 T-slotted clamps to hold material for clean cuts. 445L78 and 445L79 automatically change tooling in 8 seconds. Prebuilt tables come with software, air-cooled spindle, and servo motors. Preload up to 4 collets. Include dust shroud and fully welded steel frame.

HP	Voltage	Phase	Amps	Max. Crosscut	Max. Rip Cut	Features	Includes	Mfr. Model	Item No.
4 13⁄64 hp	220	1	16.2 A	24 in	36 in	Integrated Electrical Panel, Simple Handheld Controller	BobCAD CAM, Brush, Collet Set, Dust Cover, Material Clamps, Starter Bits	WR-32	**445L77**
7 ½ hp	220	1	35 A	24 in	24 in	Fully Welded Steel Frame, Simple Handheld Controller, Vacuum Ready Table with T-Slots	BobCAD CAM, Brush, Collet Set, Duct Collector Hose Support, Dust Cover, Material Clamps, Starter Bits, Vacuum Plumbing	WR-84V	**445L78**
12 hp	220	3	65 A	24 in	24 in	Automatic Tool Changing Spindle, Fully Welded Rigid Steel Frame, Linear Tool Rack, Runs A Program with Up to 6 Different Tools, Without Human Intervention	BobCAD Cam, Brush, Coolant Mist System, Dust Cover, Material Clamps, Starter Bits, Tool Holder Set, Vacuum Gasket, Vacuum Plumbing, Vacuum Pump	WR-105V-ATC	**445L79**

42W822

Dust Collectors

Dayton | JET | POWERMATIC

Not suitable for aluminum or other reactive dust, or for hot metal dust.

Single-Stage Portable—Dayton 115/230V units include PVC inlet hose and clamps. 3AA30 has a pick-up nozzle. 1RWB3 and 3AA28 have bag support assembly and built-in wheels. JET units include quick-connect collection bags and 4 casters. 42W940 features Vortex Cone to improve chip separation and prevent filter from clogging. Powermatic unit has efficient canister filter and triple 4" dust ports. TurboCone feature improves chip separation and prevents filter clogging.

2-Stage Portable—Include 5-ft. wire-reinforced PVC inlet hose and clamps, and 5-micron dust collection bag. Drum not included.

2-Stage Central—Conical blower housing induces a cyclone to effectively separate heavy and light particles; heavier particles drop into the drum and lighter particles are captured in the dust filter bag. Include fiber-glass drum lid with hose and clamps, 5 micron dust collection bag, 230V motor starter, and all hardware required for assembly.

5-HP models support 1 drum and 1 dust bag; larger models support 2 drums and 2 dust bags. Drum not included.

Dust Collector for Metal—Uses Replacement Filters 42W951, sold below.

HP	Voltage	Phase	Amps AC	Max. Flow (CFM)	Operating Range (FPM)	Static Pressure Range (in.)	Hose Dia. (in.)	dBA	Drum Dia. (in.)	Filter Bag (micron)	Brand	Item No.
Single-Stage Portable												
¾ hp	115/230V AC	1	7.5 A	550 cfm	6,900 fpm	0.93 to 5.8	4	79 dBA	—	10	Dayton	**3AA30**
1 hp	115/230V AC	1	11 A	660 cfm	6,790 fpm	4 to 8.5	4	65 dBA	—	30	Dayton	**1RWB3**
	115/230V AC	1	7 to 3.5 A	650 cfm	6,300 fpm	6.5	4	65 to 70 dBA	—	30	JET	**42W941**
1 ½ hp	115/230V AC	1	16 A	1,100 cfm	6,900 fpm	0.55 to 6.6	4	86 dBA	—	30	Dayton	**3AA28**
	115/230V AC	1	11 to 5.5 A	1,100 cfm	8,464 fpm	10.5	6	75 to 80 dBA	—	2	JET	**42W940**
3 hp	230/460V AC	Three	15 A	1,754 cfm	5,200 fpm	11.31	8	75 to 90 dBA	—	30	Powermatic	**42W942**
Two-Stage Portable												
¾ hp	115/230V AC	1	7.5 A	600 cfm	5,500 fpm	1.51 to 7.1	4	79 dBA	18 to 19 ½	5	Dayton	**3AA31**
1 ½ hp	115/230V AC	1	16/8 A	1,100 cfm	6,900 fpm	1.47 to 7.3	5	82 dBA	22 to 24	5	Dayton	**3AA17**
	230/460V AC	Three	4.2/2.1 A	1,100 cfm	6,900 fpm	1.34 to 7.3	5	82 dBA	22 to 24	5	Dayton	**3AA18**
2 hp	230/460V AC	Three	5.2 A	1,310 cfm	6,900 fpm	1.64 to 9	6	83 dBA	22 a 24	5	Dayton	**3AA21**
Two-Stage Central												
5 hp	230V AC	1	22 A	2,600 cfm	9,450 fpm	1.42 to 12	7	83 dBA	22 to 24	5	Dayton	**3AA24**
	230/460V AC	Three	14.5 A	2,600 cfm	9,450 fpm	1.76 to 12	7	83 dBA	22 to 24	5	Dayton	**3AA25**
7 ½ hp	230/460V AC	Three	18 A	2,900 cfm	11,800 fpm	2.01 to 13	7	85 dBA	22 to 24	5	Dayton	**3AA26**
10 hp	230/460V AC	Three	21 A	3,200 cfm	13,000 fpm	1.91 to 14	7	86 dBA	22 to 24	5	Dayton	**3AA29**
Dust Collector For Metal												
1 ½ hp	115/230V AC	1	15 to 7.5 A	490 cfm	5,610 fpm	—	3	75 dBA	—	—	JET	**18F218**

Description	For Use With	Brand	Item No.
Accessories			
Ceiling Mount Air Filtration System, 3-Speed, 1000CFM	—	Jet	**42W822**
Filter Bag, 5 micron, 2 x 6 ft. H	1½ hp and Larger Two-Stage Collectors, 15.5 cu ft	Dayton	**3AA37**
30 gal Collapsible Drum	3AA31	Dayton	**3AA32**
55 gal Collapsible Drum	3AA17, 3AA18, 3AA21, 3AA25, 3AA26, 3AA29	Dayton	**3AA33**
Hose Extension Kit, 4 in Dia. x 5 ft Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA34**
Hose Extension Kit, 5 in Dia. x 5 ft Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA35**
Hose Extension Kit, 6 in Dia. x 5 ft Ft. Length	Single-Stage and Two-Stage Dust Collectors	Dayton	**3AA36**
Collection Bag, 20 Dia.	Jet Dust Collector	Jet	**42W956**
Air Cleaner Filters, Use With 18F218, PK2	18F218	Jet	**42W951**

2HNR8

Dayton

Ceiling-Mounted Air Cleaners

- 90 to 95% efficiency

Remove tobacco smoke, dust, lint, dirt, bacteria, and other air contaminants. Units feature direct-drive blowers and Auto-Off timer. Filter status indicator helps assure max. efficiency. Use multiple units to accommodate larger areas. Gray powder-coated finish.

Description	Air Flow (cfm)	Sound Level dBA	H (in.)	W (in.)	D (in.)	Includes	Item No.
Air Cleaners, 3 Speeds							
2-Stage Media	1800/1400/1000	71	25	25	50 51⁄64	Pleated Prefilter, Primary Pocket Filter, Hardware & Remote Control	**2HNR8**
	3000/2500/2000	72	32	26	58		**2HNR9**

Item	For Use With	Item No.
Replacement Filter		
Bag Filter	2HNR9	**2HNT1**

45J412

Downdraft Tables

DYNABRADE

Table Size	Phase	Amps AC	Vacuum Suction	Sound Level	Overall Height	Item No.
115 V						
33 in x 41 in	1	13.0	3,000 cfm	72 dB	36 in	**45J414**
36 in x 60 in	1	13.0	3,000 cfm	72 dB	36 in	**45J419**
36 in x 72 in	1	13.0	3,000 cfm	72 dB	36 in	**45J423**
48 in x 96 in	1	15.0	7,000 cfm	84 dB	37 in	**45J424**
230 V						
33 in x 41 in	1	7.0	3,000 cfm	72 dB	36 in	**45J412**
	3	4.0	3,000 cfm	72 dB	36 in	**45J415**
33 in x 60 in	1	7.0	3,000 cfm	72 dB	36 in	**45J416**
	3	4.0	3,000 cfm	72 dB	36 in	**45J418**
36 in x 72 in	1	7.0	3,000 cfm	72 dB	36 in	**45J421**
	3	4.0	3,000 cfm	72 dB	36 in	**45J422**

Safety Shields and Enclosures

Westward Safety Shields—Feature quick cam action and 360° swivel locking shield.

Ferndale—45HE37 is for milling machines and has 3 interlocking safety switches. Fitted to an articulated arm, balanced, and kept in position by a gas spring`with steel pipe and polycarbonate hood. 45HE42 is for grinders and includes clutch and easy-to-fit swiveling mounting bracket. Designed with aluminum frame and 130 x 130mm polycarbonate screen. 45HE60 is a polycarbonate safety screen with lathe safety guard that can be tensioned to stay mid-way up. For use with chuck size up to 11" dia.

60UN56

Compatible with Product Type	Guard Type	Shield Type	Overall Height	Overall Width	Overall Length	FOR USE WITH	Brand	Item No.
Drill Press, Grinder, Lathe, Mill, Saw	Lathe Guard, Machine Guard	Chip and Splash Shield	6 in	6 in	6 in	OPTIONAL C-CLAMP BASE 60UN6	Cedarberg	**60UN56**
		Chip and Splash Shield	9 in	9 in	9 in	OPTIONAL C-CLAMP BASE 60UN6, SPRING CLAMP BASE	Cedarberg	**60UN57**
		Chip and Splash Shield	12 in	12 in	12 in	OPTIONAL C-CLAMP BASE 60UN6, SPRING CLAMP BASE	Cedarberg	**60UN58**
Grinder	Machine Guard	Safety Shield	—	8 in	6 in	C-CLAMP	Westward	**2MZW9**
		Safety Shield	—	12 in	8 in	MAGNETIC SWIVEL BASE	Westward	**2MZV8**

Description	L	W	Item No.
Ferndale/Repar Guards			
Machine Guard, Yellow, Includes Arm with 3 Interlock Switches, Mounting Block (Ram), Round Screen	—	—	**45HE37**
Bench Grinder Guard, Yellow, Includes Screen, Swiveling Mounting Bracket	5⅛ in	5⅛ in	**45HE42**
Lath Chuck Guard, Yellow, Includes Arm Assembly with Interlock Switch, Round Screen	15¾ in	9²⁹⁄₆₄ in	**45HE60**

45HE37

DREMEL

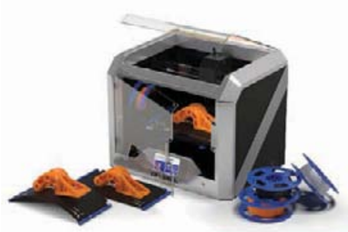
3D Printers and Filament

- 10.00 in x 6.00 in x 6.70 in Build Volume
- 4.72 in/sec Build Speed

3D PRINTERS

3D40 FLEX - Flexible metal build plate allows easy, safe removal of printed objects. Improved 50 micron ultra high quality print resolution is ideal for intricate, detailed designs. Prints up to 30% faster than low resolution using draft mode printing profile; perfect for classroom settings. Easy set up using touchscreen control.

3D45 - High quality printer for creating complex models and prototypes using advanced filament types at higher temperatures. RFID recognition automatically detects filament type and adjusts printer settings. Heated bed prevents warping. Enclosed build area has cooling and filtration systems to keep temperature consistent and protect from dust. WiFi and integrated HD camera allow remote printing and monitoring.



54YR15

Material	Color	Dia.	Item No.
3D Printing Filament			
PLA	White	1.75 mm	**55MF69**
	Black		**55MF70**
	Orange		**55MF72**
	Purple		**55MF73**
	Blue		**55MF74**
	Green		**55MF75**
	Pink		**55MF76**
	Silver		**55MF77**
	Clear		**55MF78**

Layer Thickness	Res.	Includes	Mfr. Model	Item No.
0.05 to 0.5 mm	50 microns	(2) Build Tapes, Build Sheet, Filament Spool, Object Removal Tool, Power Cable, Unclog Tool, USB Cable, USB Flash Drive	3D40-FLX-01	**54YR15**
0.05 to 0.5 mm	50 microns	(2) Build Tapes, Build Sheet, Educational Lesson Plan, Filament Spool, Object Removal Tool, Power Cable, Unclog Tool, USB Cable, USB Flash Drive	3D40-FLX-EDU	**54YR16**
0.1 to 0.3 mm	100 microns	(2) Glue Sticks, Filament Spool, Instruction Manual, Power Cable, Quick Start Guide, USB Cable	3D45-EDU	**54YP04**
100 microns	100 microns	(2) Glue Sticks, Build Plate, ECO-ABS Filament, Instruction Manual, Quick Start Guide, Roll of Black Nylon Filament, Scraper, Unclog Tool, USB Drive with Slicing Software	3D45-01	**54FY56**

CREALITY

Creality 3D Printers

787X64

Material	Color	Dia.	Item No.
3D Printing Filament			
Silk	Purple	1.75 mm	**787XA8**
	Silver		**787XA7**
	Blue		**787XA5**
TPU	Blue		**787XC5**
	Gray		**787XC4**
	Red		**787XC2**
	Black		**787XC1**
	White		**787XA9**
PETG	Black		**787X96**
	White		**787X95**
ABS	Gray		**787X92**
	Red		**787X90**
	Black		**787X89**
	White		**787X87**
PLA	Fluorescent Red		**787X76**
	Fluorescent Orange		**787X75**
	Silver		**787X74**

Build Volume	Layer Thickness	Res.	Includes	Item No.
5.00 in x 3.15 in x 6.30 in	0.01 to 0.2 mm	0.01 to 0.05 mm	Brush, Build Platform, Filter, Power Cord, Quick Installation Guide, Release Film, Resin Vat, Scraper, Toolkit, USB Memory Stick	**787X69**
7.56 in x 4.72 in x 7.87 in	0.01 to 0.2 mm	0.05 mm		**787X70**
7.87 in x 7.87 in x 7.87 in	0.1 to 0.4 mm	0.1 mm		**787X62**
8.66 in x 8.66 in x 9.84 in	0.1 to 0.4 mm	0.1 mm		**787X60**
9.25 in x 9.25 in x 9.84 in	0.1 to 0.4 mm	0.1 mm		**787X66**
9.84 in x 9.84 in x 11.81 in	0.1 to 0.4 mm	0.1 mm		**787X61**
11.02 in x 10.23 in x 12.20 in	0.1 to 0.4 mm	0.1 mm	Sample Filament Spool, SD Card, Spare Nozzles, Toolkit, USB SD Card Adapter	**787X63**
11.81 in x 8.86 in x 14.96 in	0.1 to 0.4 mm	0.1 mm		**787X65**
11.81 in x 8.86 in x 14.96 in	0.1 to 0.3 mm	0.1 mm		**787X64**
11.81 in x 11.81 in x 15.75 in	0.1 to 0.3 mm	0.0125 mm		**787X68**
11.81 in x 11.81 in x 15.75 in	0.1 to 0.4 mm	0.1 mm		**787X67**

LULZBOT

3D Printers and Filament Spools

Description	Build Volume	Build Speed	Layer Thickness	Includes	Mfr. Model	Item No.
3D Printer, 18 in L X 13 ⅜ in W	6.30 in x 6.30 in x 7.09 in	11.81 in/sec	0.5 to 0.5 mm	7-Piece Wrench Set, Clam Knife, Glue Stick, Long Nose Pliers, Pad, Power Cable, SD Card with Source Files, USB Cable, Wiper Pad Set	MINI 2	**490K93**
3D Printer, 32 ¾ in L X 28 in W	11.02 in x 11.02 in x 11.22 in	11.81 in/sec	0.05 to 0.4 mm	4 GB SD Card, 7-Piece Hex Key Set, Dental Pick, Dual Filament Run-Out Sensors, Glue Stick, Hangable Bag, LCD Touch Screen Display, Long Nose Pliers, Metric Ruler, Part Removal Tool, Precision Knife, Quality Assurance Record, Quick Start Guide, Scrub Pads, TAZ Pro Toll Head Dual Extruder with 0.5 mm Nozzle, Wiper Pads	TAZ PRO	**55EK73**
3D Printer, 32 ¾ in L X 28 in W	11.02 in x 11.02 in x 11.22 in	11.81 in/sec	0.05 to 0.4 mm	7-Piece Hex Key Set, 8 GB SD Card, Dental Pick, Glue Stick, Hangable Bag, LCD Display, Long Nose Pliers, Metric Ruler, Part Removal Tool, Precision Knife, Quality Assurance Record, Quick Start Guide, Scrub Pads, SE Tool Head Single Extruder with 0.5 mm Nozzle, Wiper Pads	TAZ WORKHORSE	**55EK74**

Dia.	Color	Item No.
3D Printing Filament		
PLA		
3 mm	Black	**56LF59**
	Blue	**56LF60**
	Green	**56LF61**
	Gray	**56LF62**
	Red	**56LF63**
	White	**56LF64**
	Orange	**221W59**
PETG		
3 mm	LulzBot Green	**221W91**
	Blue	**221W92**
	Orange	**221W94**
	Red	**221W95**

55EK74

56LF59

Sanding Belt Selection Guide

	Size Range	Application
File Belts	⅛ to 1" W, 12 to 30" L	Light weld removal and blending, shape and contour sanding, surface preparation prior to coating and plating, removing cutting tool marks from molds and dies, general clean-up and finishing
Portable Belts	3 to 4" W, 15½ to 24" L	Grinding and finishing all metals, blending welds, sanding and finishing wood, glass seaming, and polishing
	1 to 10" W, 36 to 132" L	Benchstand and backstand belts, grinding and deburring of all metals, heavy stock removal, blending, dimensioning and shaping, polishing

GRIT SELECTION GUIDE

Grit Size	Application
36 to 50	Stock Removal
60 to 100	Intermediate
120 to 320	Finishing

GRAIN SELECTION GUIDE

Abrasive Grain	Application
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind metals
Zirconia Alumina - Heavy-Duty	High rate of stock removal and long life in demanding applications
Aluminum Oxide - General Purpose	General purpose metalworking applications

TROUBLESHOOTING GUIDE

Problem	Correction
Loading	Decrease infeed pressure or belt spread
Shedding	Reduce applied pressure Use less aggressive contact wheel Dress contact wheel if worn or damaged Use entire surface of belt
Belt Breakage	Reduce belt tension Use less aggressive contact wheel Check tracking mechanism for belts tracking erratically

More sizes and styles available online; for our complete selection go to grainger.com/sandingbelts

Choose the Right Abrasive for Your Application

General Purpose—The most affordable option uses Aluminum Oxide grit.

Heavy Duty—Zirconia grit provides a faster cut rate and longer life compared to Aluminum Oxide. An excellent combination of quality and price.

High Performance—Ceramic grit provides the best combination of service life and cut rate, for consistent performance over the entire product life. Your best choice for production applications.

R228
Metalite

NORTON SAINT-GOBAIN

General Purpose Sanding Belts

Belt Type	Application	Backing	Abrasive
R215 Metalite	Woodworking	X-weight, cotton	Aluminum Oxide
R228 Metalite	General Purpose Metalworking	X-weight, cotton	Aluminum Oxide
R255 Metalite	Woodworking	X-weight, cotton	Aluminum Oxide
R283 Metalite	General Purpose Metalworking	X-weight, Rayon	Aluminum Oxide

W	L	▶CHOOSE: Grit	Item No.
R215 Metalite			
3 in	21 in	60	**6A003**
	24 in	60	**6A009**
3½ in	15½ in	36, 60, 80	**J5524**
4 in	24 in	60	**6A015**
	36 in	60	**2D555**
6 in	48 in	60	**5A997**
	89 in	80	**22PE37**
R228 Metalite			
1 in	42 in	40, 50, 60, 80, 100, 120, 150, 180, 220, 240, 320	**J5535**
2 in	48 in	36, 40, 50, 60, 80, 100, 120, 150, 180	**J5536**
	60 in	320	**22PD90**
	72 in	36, 60, 80, 100, 120, 220, 320	**J5543**
2½ in	48 in	36, 60, 80	**J5537**
	60 in	36, 40, 50, 60, 80, 100, 120, 180, 220	**J5541**
3 in	132 in	80	**22PE19**
4 in	36 in	150, 180, 320	**J5533**
	54 in	50, 60, 80, 100	**J5540**
6 in	48 in	150, 180, 220, 240, 320	**J5538**
	60 in	36, 40, 60, 80	**J5542**
8 in	107 in	60, 80	**J5522**
R255 Metalite			
3 in	18 in	50, 80, 120	**J5526**
	21 in	40, 50, 80, 100, 120	**J5529**
	24 in	36, 40, 50, 80, 100, 120	**J5531**
4 in	24 in	36, 40, 50, 80, 100, 120	**J5532**
	36 in	36, 40, 50, 80, 100, 120	**J5534**
6 in	48 in	36, 40, 50, 80, 100, 120	**J5539**
R283 Metalite			
¼ in	24 in	60	**2D593**
⅜ in	13 in	40, 60, 80, 100, 120	**J5561**
½ in	12 in	40, 60, 80, 100, 120	**J5523**
	18 in	40, 60, 80, 120	**J5525**
	24 in	40, 60, 80, 120	**J5530**
¾ in	18 in	60, 80	**J5527**
	20½ in	40, 60, 80, 100, 120	**J5528**
1 in	30 in	80	**22PD55**

R823P
BlueFire

NORTON SAINT-GOBAIN

Heavy Duty Sanding Belts

Belt Type	Application	Backing	Abrasive
R821P BlueFire	Better for grinding/deburring stainless steel	Y-weight, cotton	Zirconia Alumina
R823P BlueFire	Better for aluminum, cast iron, bronze, carbon steel - heavy pressure	X-weight, polyester (waterproof)	Zirconia Alumina
R884P BlueFire	Better for wood, aluminum, brass/ bronze - heavy pressure	Y-weight, polyester (waterproof)	Zirconia Alumina

W	L	▶CHOOSE: Grit	Item No.
R821P BlueFire			
1 in	42 in	40, 50, 60, 80	**J5572**
1½ in	60 in	36, 50	**J5578**
2 in	48 in	36, 40, 50, 60, 80	**J5574**
	60 in	40, 60, 80	**J5579**
	72 in	36, 40, 50, 60, 80	**J5583**
2½ in	60 in	36, 40, 50, 60, 80	**J5580**
4 in	36 in	50, 80	**J5570**
6 in	48 in	36, 40, 50, 60, 80	**J5576**
	60 in	40	**22PE34**
R823P BlueFire			
¼ in	18 in	80	**22PD65**
	24 in	60, 120	**J5568**
⅜ in	13 in	60, 80	**J5562**
½ in	12 in	60, 80, 120	**J5560**
	18 in	60, 80, 120	**J5564**
	24 in	60, 80, 100, 120	**J5567**
¾ in	18 in	60, 80	**J5565**
	20½ in	60, 80, 120	**J5566**
1 in	30 in	60, 80	**J5569**
	42 in	60, 80, 100, 120, 180	**J5573**
2 in	48 in	60, 80, 100, 120, 180, 220	**J5575**
	72 in	60, 80, 120, 220	**J5584**
2½ in	60 in	60, 120	**J5581**
3½ in	15½ in	80	**22PE40**
4 in	36 in	60, 80, 100, 120	**J5571**
6 in	48 in	60, 80, 100, 120	**J5577**
	60 in	60, 80	**J5582**
R884P BlueFire			
3 in	132 in	36, 50	**J5563**

22PD52

High Performance Sanding Belts

W	L	▶CHOOSE: Grit	Item No.
R980P Blaze, Norton			
¼ in	24 in	60, 120	J5556
⅜ in	13 in	60	22PD77
½ in	12 in	40, 60, 80	J5544
	18 in	40, 60, 80, 120	J5548
	24 in	40, 50, 60, 80	J5554
¾ in	18 in	40, 60, 80	J5550
	20½ in	40, 60, 80, 120	J5552
1 in	24 in	120	22PD50
1½ in	60 in	40	22PD81
2 in	48 in	60, 80	J5557
	60 in	36, 40	J5558
	72 in	36, 40, 50, 60, 80, 120	J5559
6 in	48 in	60	22PE31
R981 SG, Norton			
¼ in	24 in	60	22PD68
½ in	12 in	50, 60, 80	J5545
	18 in	80, 120	J5549
	24 in	50, 60, 80, 120	J5555
¾ in	18 in	60, 80	J5551
	20½ in	50, 60, 80	J5553
1 in	24 in	50	22PD52
3½ in	15½ in	60, 80, 120	J5547
947A Cubitron II, 3M			
¼ in	24 in	60, 80, 120	J6864
½ in	18 in	60, 80, 120	J5487
	24 in	60, 80, 120	J6864
¾ in	18 in	60, 80, 120	J5489
	20½ in	60, 80, 120	J6863
1 in	11 in	80, 120	J5484
	30 in	80, 120	J5491
	42 in	80, 120	J5492
2 in	60 in	60, 80, 120	J5495
	72 in	60, 80, 120	J5497
	132 in	60, 80, 120	J6861
3 in	132 in	60, 80, 120	J6862
3½ in	15½ in	60, 80, 120	J5485
6 in	48 in	60, 80, 120	J5494

W	L	▶CHOOSE: Grit	Item No.
984F Cubitron II, 3M			
¼ in	24 in	60	J5490
½ in	12 in	80	30CP12
	18 in	50, 60, 80	J5486
	18 in	120	448D46
	24 in	60, 80	J5490
	24 in	120	448D47
¾ in	18 in	36, 60	J5488
1 in	11 in	60, 80	J5483
	24 in	50	J5490
	42 in	60, 80	J6874
	132 in	36, 60	J6866
	137 in	36	448A06
1½ in	60 in	60	448C44
	132 in	36, 80	J6867
2 in	60 in	36, 50, 60, 120	J6876
	72 in	36, 50, 60, 80, 120	J5496
	118 in	36	30CP18
	132 in	36	30CN86
	132 in	50, 60, 80, 120	J6868
2½ in	60 in	36, 60, 80	J6877
3 in	132 in	36, 50, 60, 80, 120	J6869
	137 15/16 in	36	448C10
3½ in	15½ in	60, 80	J6871
4 in	132 in	36, 50, 60, 120	J6870
5 in	132 in	36	448C55
6 in	48 in	36, 50, 60, 80, 120	J6875
	60 in	60	448C38
	132 in	36	30CN93
8 in	107 in	36	448C56
	132 in	36	448A91
27 9/16 in	126 in	80, 120	J6865
37 in	60 in	80	448C53
	75 in	80	448C52

W	L	▶CHOOSE: Grit	Item No.
384F, 3M			
2 in	132 in	36, 60	J6852
3 in	132 in	36, 60, 80	J6852
6 in	48 in	36	448D04
37 in	60 in	150	448D03
723D Cubitron II, 3M			
½ in	42 in	220	448C75
2 in	72 in	120	448C74
3 in	132 in	120, 150, 220	J6853
784F Cubitron II, 3M			
½ in	18 in	36, 60, 80, 120	J6855
	24 in	80, 120	J6857
	25 in	60	448C80
¾ in	18 in	36, 60, 80, 120	J6856
1 in	132 in	50	448C78
2 in	48 in	60, 80	J6858
	72 in	60, 120	J6860
	132 in	36	448C76
	132 in	60	448C85
3 in	132 in	36, 60, 80	J6854
6 in	48 in	60, 80	J6859
994F Cubitron II, 3M			
4 in	132 in	36	448C23

Surface Conditioning Belts

- Aluminum oxide abrasive

Open construction resists loading. Use Coarse grit for deburring, Medium grit for cleaning and blending, Fine grit for blending, and Very Fine grit for finishing.

3M Scotch-Brite
J5499

W	L	▶CHOOSE: Grade	Item No.
Norton Rapid Prep			
½ in	18 in	Medium, Fine, Very Fine	J5586
	24 in	Medium, Fine, Very Fine	J5590
¾ in	18 in	Extra Coarse, Medium, Fine, Very Fine	J5587
	20½ in	Medium, Fine, Very Fine	J5588
1 in	42 in	Medium, Fine, Very Fine	J5794
2 in	48 in	Medium, Fine, Very Fine	J5592
3 in	21 in	Extra Coarse, Medium, Fine, Very Fine	J5589
	24 in	Extra Coarse, Medium, Fine, Very Fine	J5591
3½ in	15½ in	Medium, Fine, Very Fine	J5585
6 in	48 in	Medium, Fine, Very Fine	J5593

W	L	▶CHOOSE: Grade	Item No.
3M Scotch-Brite			
½ in	18 in	Coarse, Medium, Very Fine	J5499
	24 in	Coarse, Medium, Very Fine	J5501
¾ in	18 in	Coarse, Medium, Very Fine	J5500
1 in	42 in	Medium	6RR58
2 in	48 in	Medium, Very Fine	J5503
	72 in	Medium	4ZP82
3 in	10 11/16 in	Medium	6RT26
	24 in	Medium, Very Fine	J5502
3½ in	15½ in	Coarse, Medium, Very Fine	J5498
6 in	48 in	Coarse, Medium	J5504

Sandpaper Sheets

Norton Series/Backing	Abrasive Material	Application
Pro Sand	Premium Aluminum Oxide, Stearate-Coated	Consistent finish on all surfaces and coatings
Multisand; A211 D-Weight, A213 C-Weight	Aluminum Oxide	Wood, metal, plastic, and fiberglass
Adalox; A211 D-Weight, A212 A-Weight, A213 C-Weight	Aluminum Oxide	Hardwood, metal, and composites
No-Fil Adalox; A275 B-Weight	Aluminum Oxide	Dry sanding painted or varnished wood
Garnet; A511 A-Weight, A513 C-Weight	Garnet	Dry sanding of soft or bare wood, and cabinets
No-Fil Durite; A475 B-Weight	Silicon Carbide, Stearate-Coated	Dry sanding primed or painted wood
Tufbak Durite; T402 and T414 A-Weight, T461 C-Weight	Silicon Carbide	Wet sanding between primer coats or other finishes on wood and metal
Flex Metalite; K225 and K225 J-Weight	Aluminum Oxide	Deburring, cleaning, or polishing metal
Emery; K622 J-Weight	Emery	Scouring or polishing nonrated metals and utensils

1KUR4

W	L	Grit	PKG. OF 3 Item No.	PKG. OF 20 Item No.
Norton ProSand				
	11 in	60	**45MY79**	**45MY88**
	11 in	80	**45MY78**	**45MY87**
	11 in	100	**45MY77**	**45MY86**
	11 in	120	**45MY76**	**45MY85**
9 in	11 in	150	**45MY75**	**45MY84**
	11 in	180	**45MY74**	**45MY83**
	11 in	220	**45MY73**	**45MY82**
	11 in	320	**45MY72**	**45MY81**
	11 in	400	**45MY71**	**45MY80**

W	L	Grit	Series	Color	Item No.	Pkg. Qty.
Norton Multisand A211 and A213						
3 ⅔ in	9 in	60	A211	Brown	**1RDT3**	6
	9 in	100	A213	Brown	**1RDT2**	6
	5 ½ in	100	A213	Brown	**1RDR6**	6
4 ½ in	5 ½ in	150	A213	Brown	**1RDR5**	6
	11 in	60	A211	Brown	**1RDR3**	4
Norton Adalox A211, A212, and A213						
	11 in	36	A211	Brown	**1KUV1**	25
	11 in	40	A211	Brown	**1KUV2**	25
	11 in	50	A211	Brown	**1KUV3**	50
	11 in	80	A211	Brown	**1RDZ3**	25
	11 in	80	A211	Brown	**1KUT4**	50
9 in	11 in	100	A211	Brown	**1RDZ4**	25
	11 in	100	A213	Brown	**1RDZ5**	100
	11 in	120	A213	Brown	**1KUT5**	100
	11 in	150	A213	Brown	**1KUT6**	100
	11 in	180	A212	Brown	**1RDZ6**	100
	11 in	220	A212	Brown	**1LZK4**	100
Norton Premium No-Fil Adalox A275						
	11 in	P80	A275	Brown	**1KUR4**	50
	11 in	P100	A275	Brown	**1KUR5**	100
	11 in	P120	A275	Brown	**1KUR6**	100
	11 in	P150	A275	Brown	**1KUR7**	100
	11 in	P180	A275	Brown	**1KUR8**	100
9 in	11 in	P220	A275	Brown	**1KUR9**	100
	11 in	P240	A275	Brown	**1KUT1**	100
	11 in	P280	A275	Brown	**1KUT2**	100
	11 in	P320	A275	Brown	**1KUT3**	100
	11 in	P400	A275	Brown	**1KUP5**	100
	11 in	P600	A275	Brown	**1KUP6**	100
Norton Garnet A511 and A513						
	11 in	60	A513	Orange	**1LZK5**	50
	11 in	80	A513	Orange	**1KUP9**	50
	11 in	100	A513	Orange	**1RDZ7**	25
	11 in	100	A511	Orange	**1LZK6**	100
9 in	11 in	120	A511	Orange	**1LZK7**	100
	11 in	120	A513	Orange	**1RDZ8**	100
	11 in	150	A511	Orange	**1RDZ9**	25
	11 in	150	A513	Orange	**1KUR1**	100
	11 in	180	A511	Orange	**1KUR2**	100
	11 in	220	A511	Orange	**1KUN4**	100
Norton No-Fil Durite A475						
	11 in	80	A475	Gray	**11V254**	50
	11 in	100	A475	Gray	**11V255**	100
	11 in	120	A475	Gray	**11V256**	100
9 in	11 in	150	A475	Gray	**11V257**	100
	11 in	180	A475	Gray	**11V258**	100
	11 in	220	A475	Gray	**11V259**	100
	11 in	240	A475	Gray	**11V260**	100
	11 in	320	A475	Gray	**11V261**	100
Norton Tufbak Durite T402, T414, and T461						
	11 in	80	T461	Charcoal	**1KUL5**	50
	11 in	100	T461	Charcoal	**1KUL6**	50
	11 in	120	T461	Charcoal	**1LYF7**	50
	11 in	150	T461	Charcoal	**1KUL7**	50
	11 in	180	T461	Charcoal	**1LYF8**	50
	11 in	220	T414	Gray	**1LYF9**	50
	11 in	240	T414	Gray	**1LZJ5**	50
9 in	11 in	280	T414	Gray	**1LYG1**	50
	11 in	320	T414	Gray	**1KUL8**	50
	11 in	360	T414	Gray	**1LZJ6**	50
	11 in	400	T414	Gray	**1KUL9**	50
	11 in	500	T414	Gray	**1KUN1**	50
	11 in	600	T414	Gray	**1KUN2**	50
	11 in	1200	T402	Gray	**1KUN3**	50
	11 in	P220	T247	Gray	**1REA1**	25

1KUH6

W	L	Grit	Series	Color	Item No.	Pkg. Qty.
Norton Flex Metalite K224 and K225						
	11 in	60	K224	Brown	**1REA3**	25
	11 in	50	K225	Brown	**1REA2**	25
	11 in	80	K225	Brown	**1KUK5**	25
	11 in	100	K225	Brown	**1KUK6**	50
	11 in	120	K225	Brown	**1KUK7**	50
9 in	11 in	150	K225	Brown	**1KUK8**	50
	11 in	180	K225	Brown	**1KUK9**	50
	11 in	220	K225	Brown	**1KUL1**	50
	11 in	240	K225	Brown	**1KUL2**	50
	11 in	280	K225	Brown	**1KUL3**	50
	11 in	320	K225	Brown	**1KUL4**	50
	11 in	400	K225	Brown	**1KUH5**	50
Norton Emery K622						
	11 in	50	K622	Charcoal	**1KUH6**	25
9 in	11 in	100	K622	Charcoal	**1KUH7**	50
	11 in	150	K622	Charcoal	**1KUH8**	50

W	L	Grit	Backing Material	Backing Weight	Color	Item No.	Pkg. Qty.
Approved Vendor							
Aluminum Oxide							
	11 in	36	Paper	D	Brown	**447T79**	1
	11 in	180	Paper	A	Brown	**436A39**	100
	11 in	220	Paper	A	Brown	**436A32**	100
	11 in	P40	Paper	D	Brown	**436A33**	25
	11 in	P60	Paper	C	Brown	**436A27**	50
	11 in	P80	Paper	B	Red	**436A31**	50
	11 in	P80	Paper	C	Brown	**436A28**	50
	11 in	P100	Paper	B	Red	**436A43**	100
	11 in	P100	Paper	C	Brown	**436A48**	100
9 in	11 in	P120	Paper	B	Red	**436A41**	100
	11 in	P120	Paper	C	Brown	**436A36**	100
	11 in	P150	Paper	B	Red	**436A53**	100
	11 in	P150	Paper	C	Brown	**436A52**	100
	11 in	P180	Paper	B	Red	**436A56**	100
	11 in	P220	Paper	B	Red	**436A44**	100
	11 in	P240	Paper	B	Red	**436A57**	100
	11 in	P320	Paper	B	Red	**436A34**	100
	11 in	P400	Paper	B	Red	**436A42**	100
	11 in	P600	Paper	B	Red	**436A38**	100
Emery							
9 in	11 in	100	Cloth	J	Black	**447T83**	50
	11 in	150	Cloth	J	Black	**447T84**	50
Garnet							
	11 in	50	Paper	D	Orange	**447T80**	1
	11 in	60	Paper	C	Orange	**436A35**	50
	11 in	80	Paper	A	Orange	**447T81**	1
	11 in	80	Paper	C	Orange	**436A37**	50
	11 in	100	Paper	A	Orange	**436A46**	100
9 in	11 in	120	Paper	A	Orange	**436A29**	100
	11 in	120	Paper	C	Orange	**436A58**	100
	11 in	150	Paper	A	Orange	**447T82**	1
	11 in	150	Paper	C	Orange	**436A65**	100
	11 in	180	Paper	A	Orange	**436A61**	100
	11 in	220	Paper	A	Orange	**436A54**	100
Silicon Carbide							
	11 in	80	Waterproof Paper	C	Black	**436A50**	50
	11 in	100	Waterproof Paper	C	Black	**436A45**	50
	11 in	120	Waterproof Paper	C	Black	**436A30**	50
	11 in	150	Waterproof Paper	C	Black	**436A55**	50
9 in	11 in	180	Waterproof Paper	C	Black	**436A47**	50
	11 in	P100	Paper	B	White	**436A60**	100
	11 in	P120	Paper	B	White	**436A62**	100
	11 in	P150	Paper	B	White	**436A59**	100
	11 in	P180	Paper	B	White	**436A64**	100
	11 in	P220	Paper	B	White	**436A49**	100
	11 in	P240	Paper	B	White	**436A63**	100
	11 in	P320	Paper	B	White	**436A51**	100

Description	W	L	Grit	Includes	Item No.
Norton Assortment Packs					
Multisand	3 ⅔ in	9 in	Assorted	(1) Sheet 60 Grit 1RDT3, (2) Sheets 100 Grit 1RDT2, (3) Sheets 150 Grit 1RDT1	**1RDT4**
Multisand	9 in	11 in	60 to 220	(6) Sheets 60 Grit, 100 Grit, 150 Grit, (7) Sheets 220 Grit	**3XY65**
4 ⅞ in L x 2 ¹¹⁄₁₆ in W, Rubber For Wet or Dry Sanding, Uses ⅓ Sheets 9 x 11 in					**1RDT5**

3XY65

Scotch-Brite™ NORTON SAINT-GOBAIN 3M

Abrasive Hand Pads

All pads can be cut to size for specific applications; 5XB78 is perforated to let you create smaller 4½" x 6" pads.

Aluminum Oxide 4ZR11

4ZT08

Abrasive Material	Grade	Color	Series	Function	W	L	Brand	Item No.
Aluminum Silicate	Super Fine	White	7445	Mild abrasive for Cleaning	6 in	9 in	Scotch-Brite	3WB48
Aluminum Oxide	Very Fine	Green	696	For hand cleaning and scouring, light cleaning of metal surfaces and removal of light surface oxidation, stains, and marks.	6 in	9 in	Norton	4VB29
	Very Fine	Maroon	747	Cleaning, Deburring, Finishing, Preparing surfaces for painting, Rust Removal; Defuzzing wood	6 in	9 in	Norton	4LL48
	Very Fine	Maroon	777	Cleaning, Crrosion removal, Deburring, Fast initial cut rate, Oxidation removal	6 in	9 in	Norton	4LL50
	Very Fine	Maroon	847	Cleaning, Deburring, Defuzzing wood, Finishing, Preparing surfaces for painting, Rust removal	6 in	9 in	Norton	5XB78
	Very Fine	Maroon	7447	Cleaning, Defuzzing wood, Finishing; Deburring, Preparing surfaces for painting, Rust removal	6 in	9 in	Scotch-Brite	4ZR10
	Very Fine	Maroon	7447B	Blending, Cleaning, Contour Finishing, Deburring, Finishing	6 in	9 in	Scotch-Brite	4ZR18
	Very Fine	Maroon	—	Blending/Deburring, Finishing/Polishing	6 in	9 in	—	435Y55
	Very Fine	Green	—		6 in	9 in	—	435Y56
	Very Fine	Maroon	Thin Flex	Extremely thin and conformable for cleaning, blending, finishing,and deburring contoured surfaces and tight spaces	4 ½ in	9 in	Norton	49U885
	Medium	Brown	740	Blending, Deburring, Removing Rust and Oxidation	6 in	9 in	Norton	4LL46
	Medium	Tan	7440		6 in	9 in	Scotch-Brite	4ZR11
	Medium	Dark Tan	—	Blending/Deburring, Finishing/Polishing	6 in	9 in	—	435Y54
Silicon Carbide	Ultra Fine	Gray	635	Blending paint, Cleaning fiberglass partitions, Deburring plastic surfaces, Finishing, Scuffing acrylic surfaces	6 in	9 in	Norton	4LL45
	Ultra Fine	Gray	748	Defuzzing wood, Final rub, Light cleaning of steel and nonsteel	6 in	9 in	Norton	4LL49
	Ultra Fine	Gray	—	Blending/Deburring, Finishing/Polishing	6 in	9 in	—	435Y58
	Very Fine	Gray	851	Blending around welds, Cleaning glass molds, Removing rust and oxidation, Satin Finishing	6 in	9 in	Norton	4LL52
	Medium	Gray	746	Cleaning aluminum, around welds, glass molds, and dies, Light Deburring	6 in	9 in	Norton	4LL47
	Medium	Gray	7446	Cleaning aluminum, around welds, glass molds, and dies; light deburring of intricate parts	6 in	9 in	Scotch-Brite	4ZR12
Non-Abrasive	Super Fine	White	456	Nonabrasive for cleaning glass, fiberglass, and porcelain fixtures;wood highlighting and rubbing between finish	6 in	9 in	Norton	4LL44
	—	Off White	—	Blending/Deburring, Finishing/Polishing	6 in	9 in	—	435Y57

Item	Description	Brand	Mfr. Model	Item No.
Abrasive Hand Pad Set	Includes: Scrubbing Sponge (74), Lt.-Duty Pad (6448), Hvy.-Duty Pad (7440), Lt.-Duty Cleansing Pad (7445), Blending Pad (7446), General Purpose Pad (7447), Ultrafine Pad (7448), Production Pad (8447), and Twist Lok Pad Holder (961)	Scotch-Brite	961S	4ZT08
Hand Sanding Block	For Use with 4 x 6" Roll Material and Hand Pads	3M	952	4ZR06
Mini Mandrel	¼" Shank; 2⅞" Length	3M	935	4ZR08

Non-Woven Abrasive Rolls

Scotch-Brite™

An economical alternative to pre-cut pads for effectively hand cleaning male and female threading, and inside of cylinders; cut to size and use only what you need. The flexible, nonloading, nonrusting material conforms to work surfaces for light- to heavy-duty cleaning, deburring, blending, polishing, and finishing. Use on metal, wood, composite, plastics, stone, solid surfaces, and painted surfaces.

Series	Grade	Abrasive Material	Color	L	W	Mfr. Model	Item No.
Cleaning and Finishing Rolls							
CF-RL	Very Fine	Silicon Carbide	Gray	30 ft	4 in	7000120862	4ZP80
	Very Fine	Aluminum Oxide	Maroon	30 ft	2 in	7000121074	4ZP75
	Very Fine	Aluminum Oxide	Maroon	30 ft	4 in	7000046195	4ZP78
	Very Fine	Aluminum Oxide	Maroon	30 ft	6 in	7000121072	4ZP81
	Super Fine	Aluminum Silicate	White	30 ft	4 in	7000120863	4ZP77
	Super Fine	Silicon Carbide	Gray	30 ft	4 in	7100141689	4ZP79
	Fine	Aluminum Oxide	Maroon	30 ft	4 in	7000121069	2BAP4
	—	—	White	30 ft	4 in	7000000649	4ZP76
Cutting and Polishing Rolls							
CP-RL	Medium	Aluminum Oxide	Tan	30 ft	2 in	7100141895	4ZR29
	Medium	Aluminum Oxide	Tan	30 ft	4 in	7100095034	4ZR30
Polishing Roll							
CF-RL	—	—	White	30 ft	8 in	61500021243	4YHX5
SP-RL	—	—	White	30 ft	4 in	7000120882	2JEK9

4ZR30

2D724 3UN31

NORTON SAINT-GOBAIN MERIT we know abrasives

Abrasive Rolls

Rolls can be torn to exact lengths as needed, eliminating waste.

Cloth Rolls—For polishing lathe turnings, rolls, and cylinders; light deburring; blending machine tool marks; removing rust and scale; fine sanding and polishing.

Paper Rolls—For preparing primed and painted surfaces; sanding plastic and fiberglass; and bare wood sanding.

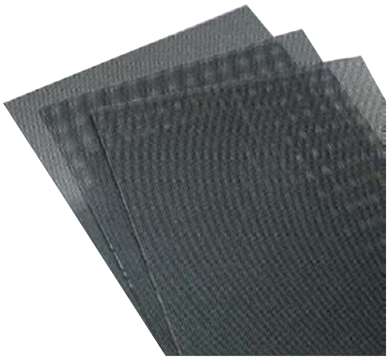
W	L	Grit	Brand	Item No.
Cloth				
XC0851 Series				
1"	150 ft	P60	—	**435Y50**
1½"	150 ft	P60	—	**435Y48**
2"	150 ft	P60	—	**435Y45**
K225 Series				
1"	150 ft	80	Norton	**2D725**
	150 ft	80	Merit	**3DV24**
	150 ft	100	Norton	**2D724**
	150 ft	120	Norton	**2D723**
	150 ft	120	Merit	**3DV25**
	150 ft	150	Norton	**2D722**
	150 ft	180	Norton	**2D721**
	150 ft	180	Merit	**3DV26**
	150 ft	220	Norton	**1LZK9**
	150 ft	240	Merit	**3DV27**
	150 ft	280	Norton	**1LZL1**
	150 ft	320	Norton	**2D719**
	150 ft	320	Merit	**3DV28**
	150 ft	400	Norton	**2D718**
1½"	150 ft	80	Norton	**2D736**
	150 ft	100	Norton	**2D735**
	150 ft	120	Norton	**2D734**
	150 ft	150	Norton	**2D733**
	150 ft	180	Norton	**2D732**
	150 ft	220	Norton	**1LZL2**
	150 ft	240	Norton	**2D731**
	150 ft	280	Norton	**1LZL3**
	150 ft	320	Norton	**2D730**
	150 ft	400	Norton	**2D729**
	150 ft	600	Norton	**2D728**
2"	150 ft	80	Norton	**2D746**
	150 ft	80	Merit	**3DV29**
	150 ft	100	Norton	**2D745**
	150 ft	120	Norton	**2D744**
	150 ft	120	Merit	**3DV30**
	150 ft	150	Norton	**2D743**
	150 ft	180	Norton	**2D742**
	150 ft	180	Merit	**3DV31**
	150 ft	220	Norton	**2D741**
	150 ft	240	Norton	**2D740**
	150 ft	240	Merit	**3DV32**
	150 ft	280	Norton	**1LZL4**
	150 ft	320	Norton	**2D739**
	150 ft	320	Merit	**3DV33**
	150 ft	400	Norton	**3XF01**
K224 Series				
1"	150 ft	50	Norton	**2D727**
	150 ft	60	Norton	**2D726**
1½"	150 ft	50	Norton	**2D738**
	150 ft	60	Norton	**2D737**
2"	150 ft	50	Norton	**2D748**
	150 ft	60	Norton	**2D747**
JCF0852 Series				
1"	150 ft	P80	—	**435Y29**
	150 ft	P100	—	**435Y43**
	150 ft	P120	—	**435Y26**
	150 ft	P150	—	**435Y49**
	150 ft	P180	—	**435Y34**
	150 ft	P220	—	**435Y41**
	150 ft	P240	—	**435Y33**
	150 ft	P280	—	**435Y53**
	150 ft	P320	—	**435Y37**
	150 ft	P400	—	**435Y38**
1½"	150 ft	P80	—	**435Y30**
	150 ft	P100	—	**435Y42**
	150 ft	P120	—	**435Y22**
	150 ft	P150	—	**435Y46**
	150 ft	P180	—	**435Y28**
	150 ft	P220	—	**435Y39**
	150 ft	P240	—	**435Y36**
	150 ft	P320	—	**435Y40**
	150 ft	P400	—	**435Y35**
2"	150 ft	P80	—	**435Y23**
	150 ft	P100	—	**435Y44**
	150 ft	P120	—	**435Y21**
	150 ft	P150	—	**435Y47**
	150 ft	P180	—	**435Y25**
	150 ft	P220	—	**435Y31**
	150 ft	P240	—	**435Y27**
	150 ft	P280	—	**435Y52**
	150 ft	P320	—	**435Y24**
	150 ft	P400	—	**435Y32**
Approved Vendor Series				
1½"	150 ft	40	—	**447R20**
	150 ft	80	—	**447R19**
	150 ft	600	—	**447R21**
2¾"	45 yd	400	—	**447R17**
Paper				
A275 Series				
2¾"	75 ft	80	Norton	**4MAA9**
	90 ft	100	Norton	**4MAA8**
	135 ft	150	Norton	**4MAA7**
	135 ft	220	Norton	**4MAA6**
	135 ft	320	Norton	**4MAA5**
4½"	30 ft	80	Norton	**3UN31**
	30 ft	120	Norton	**3UN30**
	30 ft	150	Norton	**3UN29**
	30 ft	180	Norton	**3UN28**
	30 ft	220	Norton	**3UN27**
Approved Vendor Series				
2¾"	25 yd	80	—	**447R09**
	30 ft	100	—	**447R10**
	30 yd	120	—	**447R11**
	45 yd	150	—	**447R12**
	45 yd	180	—	**447R13**
	45 yd	220	—	**447R14**
	45 yd	240	—	**447R15**
	45 yd	320	—	**447R16**

3M

Abrasive Cloth Roll Kit

Kit comes with 24-ft. L premium aluminum oxide abrasive sheets in 5 different grits; cut or tear off to the length that you need to help eliminate waste. The strong bonding system allows the sheets to be torn and rolled without shelling. An excellent choice for all your utility sanding and general maintenance work, including blending, finishing, and cleaning applications.

Abrasive Material	W	Grit	Item No.
Aluminum Oxide	1 in	120, 180, 240, 60, 80	**4YJY2**



1KUH9

4F880

NORTON SAINT-GOBAIN

Open-Mesh Abrasive Rolls and Sheets

In applications where life and load resistance are the most-important factors, the open mesh screen on these silicon carbide sheets resists loading for fast, easy, and efficient sanding. Use for sanding plastic piping prior to gluing; preparing copper pipe and fittings prior to soldering; and sanding softer materials where loading is a problem, such as plaster, wood, drywall, brass, etc.

Description	W	L	Grade	Grit	Item No.	Pkg. Qty.
Screen-Bak Durite Q421 Sheets	9 in	11 in	Very Fine	320	**1KUK4**	25
			Very Fine	220	**1KUK3**	25
			Very Fine	180	**1KUH9**	25
			Fine	150	**1KUK2**	25
			Medium	100	**1KUK1**	25
Screen-Bak Durite Q421 Rolls	1 ½ in	75 ft	Very Fine	180	**4F882**	1
			Fine	120	**4F881**	1
			Medium	80	**4F880**	1

Diamond Hand Pads

NORTON SAINT-GOBAIN

Color-coded hand pads combine the durability and aggressiveness of diamond on a high-strength, flexible backing. Single-sided; conform to shapes and contours. Well-suited for quick finishing of ceramic tile to get a smooth edge before grouting. Can be used on many other surfaces to smooth edge chips, reface edges, or polish dies and molds. 1RDJ5 is an assortment that contains 1 of each type of pad.

Grade	Grit	Color	L	W	Mfr. Model	Item No.
Hand Pads						
Ultra Fine	800	White	3 ½ in	2 ⅛ in	66260306363	**1RDJ3**
Ultra Fine	1500	Blue	3 ½ in	2 ⅛ in	66260306364	**1RDJ4**
Super Fine	400	Yellow	3 ½ in	2 ⅛ in	66260305852	**1RDJ2**
Fine	120	Black	3 ½ in	2 ⅛ in	66260306361	**1RDH9**
Fine	200	Red	3 ½ in	2 ⅛ in	66260306362	**1RDJ1**
Medium	60	Green	3 ½ in	2 ⅛ in	66260306360	**1RDH8**
Assortment						
Medium to Ultra Fine	60, 120, 200, 400, 800, 1,800	Assorted	3 ½ in	2 ⅛ in	66260307720	**1RDJ5**

Assortment Pack
1RDJ5

Abrasive Sponges

NORTON SAINT-GOBAIN 3M

Durable coated foam lasts up to 5 times longer than sandpaper and resists tearing. Can be used wet or dry, and can be washed and reused multiple times.

General Purpose—Small, flexible sponges are coated on 2 sides and can be used on most materials. Silicon carbide abrasive.

Sealer Sanding—Designed for hand sanding primers and sealers between coats on furniture and cabinets. Premium silicon carbide abrasive. Coated on 2 sides.

Profile—Designed for flat surfaces and corners on metal, wood, plastic, or paint. Aluminum oxide abrasive. Coated on 3 sides.

Small Area—The ultra sharp aluminum oxide grain offers faster cut and longer life for small area paint and drywall repair. Coated on 2 sides.

Dual-Angle and Angled—Extra-firm sponges are coated with aluminum oxide abrasive on 4 sides for sanding inside corners and crevices of drywall compound.

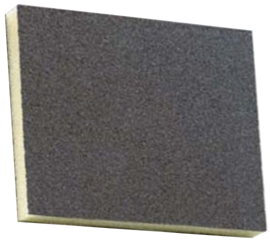
Contour—Thin, flexible sponges are designed for small diameter objects with contours such as ceramics, spindles, turnings, and railings. Aluminum oxide abrasive. Coated on 1 side.

Soft Touch—Superior flexibility for hand sanding or finishing flat, curved, contoured, and hard-to-reach areas. Aluminum oxide abrasive. Coated on 1 side.

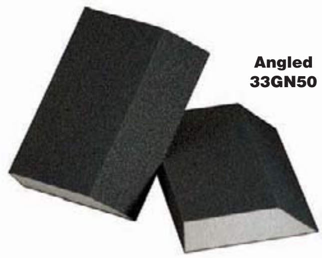
Corner Drywall—2 sides have aluminum oxide abrasive, providing dual sanding action for near-perfect inside corners on drywall. Extra-firm sponges are designed for sanding drywall corners, but can also be used on a variety of other materials.

Softback—Coated on one side with an aluminum oxide grit that is excellent for automotive applications, this flexible sponge is effective for hard-to-reach areas like headlight openings and door jambs. The soft foam backing allows comfortable hand sanding.

General Purpose
1RDV8

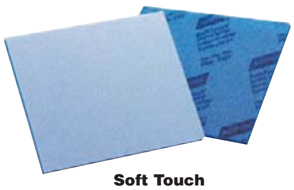


Sealer Sanding
3WK97



Angled
33GN50

Description	L	W	Thickness	Grit	Grade	Mfr. Model	Item No.	Pkg. Qty.
Norton								
General Purpose	4 in	2.75 in	1 in	36/80	Extra Coarse/Medium	07660749503	**1RDV8**	1
	4 in	2.75 in	1 in	80/120	Medium/Fine	07660749502	**1RDW1**	1
Sealer Sanding	4.75 in	3.75 in	0.5 in	80	Medium	63642502538	**2KNA7**	1
	4.75 in	3.75 in	0.5 in	100	Fine	63642552870	**3WK98**	1
	4.75 in	3.75 in	0.5 in	150	Fine	63642552869	**3WK97**	1
	4.75 in	3.75 in	0.5 in	220	Very Fine	63642552868	**3WK96**	1
Profile	4 in	2.75 in	0.5 in	100	Fine	63642536313	**2KNA9**	1
Small Area	4.5 in	2.687 in	1 in	60	Medium	07660782071	**45GF45**	1
	4.5 in	2.687 in	1 in	180	Very Fine	07660782073	**45GF46**	1
Dual-Angle	4.875 in	2.875 in	1 in	—	Coarse/Medium	07660700936	**1PW28**	1
	4.875 in	2.875 in	1 in	—	Medium/Fine	07660700935	**1PW27**	1
Angled	4.875 in	2.875 in	1 in	150/180	Fine	07660702284	**33GN50**	24
	4.875 in	2.875 in	1 in	100/120	Medium	07660702285	**33GN51**	24
Contour	5.5 in	4.5 in	0.187 in	—	Fine	07660700938	**2DZY1**	2
	5.5 in	4.5 in	0.187 in	—	Medium	07660700939	**2DZY2**	2
	5.5 in	4.5 in	0.187 in	—	Very Fine	07660700937	**2DZY3**	2
Soft Touch	5.5 in	4.5 in	0.187 in	—	Medium	07660703074	**1RDW7**	20
	5.5 in	4.5 in	0.187 in	100	Fine	07660703075	**1RDW8**	20
	5.5 in	4.5 in	0.187 in	—	Super Fine	07660703076	**1RDW9**	20
	5.5 in	4.5 in	0.187 in	—	Ultra Fine	07660703077	**1RDX1**	20
	5.5 in	4.5 in	0.187 in	—	Very Fine	07660703078	**1RDX2**	20
Corner Drywall	7 in	4.5 in	3.75 in	—	Medium	07660701715	**1PW39**	1
3M								
Softback	5.5 in	4.5 in	0.25 in	500/600	Super Fine	02602	**2BAE1**	120



Soft Touch
1RDW8

Corner Drywall
1PW39

Foam Sanding Pads

NORTON SAINT-GOBAIN

- A275 aluminum oxide grain with No-Fil® coating
- 4½"W x 82'L roll
- 178 (5½"L) sheets per roll

Water-resistant sheets are excellent for fine sanding water-based primers, topcoats, wood, metal and composite, especially on rounded edges, contours, and curves. Can be used moist to provide a uniform finish that minimizes scratching.

Grit	Mfr. Model	Item No.
120	78072735316	**12Z220**
150	78072757584	**12Z221**
180	78072757599	**12Z222**
220	78072757600	**12Z223**
240	78072757602	**12Z224**
320	66623357606	**12Z226**
400	66623357608	**12Z227**
500	66623357611	**12Z228**
600	66623357612	**12Z229**
800	66623357613	**12Z230**
1000	66623357616	**12Z231**

Sanding Disc Specifications

Series	Application	Backing	Abrasive
Norton A275	Faster cut rate than standard discs. Flexible backing. Available with vacuum holes to pull swarf away from the point of grind.	B-weight, latex	Aluminum Oxide
Norton A290	Provides consistent finish for dry sanding applications.	C-weight, paper	Aluminum Oxide
Norton A475	Ideal for use between sealer coats and for hard-to-sand surfaces.	B-weight	Silicon Carbide
Norton A975	For stripping and sanding paint, primers, bare wood, metal, and fiberglass.	C-weight for 80 to 120 grit B-weight for 150 and higher grit	Ceramic Alumina
Norton H875	For soft material applications, fiberglass, and composites.	E-weight, paper	Zirconia Alumina
Norton Multi-Air® Cyclonic™	Provide maximum dust extraction for virtually dust-free sanding. Flat, laser-cut holes maximize cut rate and disc life.	Fiber-reinforced latex/paper	Ceramic Alumina
ARC Abrasives Inc® PREDATOR®	Premium blend of proprietary grains and grinding aid for high performance with a fast cut and long life. Ideal for mild steel and carbon steel.	Y-weight, cloth	Ceramic
CUBITRON™ II	Precision shaped ceramic grain for faster cuts and long life. Ideal for stock removal on a wide variety of substrates.	C-weight, paper	Ceramic

Non-Vacuum H5933

PSA Paper Disc Rolls

Pressure Sensitive Adhesive (PSA) backing enables quick disc changes. Stearate coating reduces disc loading. For use on random orbital and rotary sanders. Use for all-purpose dry sanding and finishing applications. Use with PSA back-up pads, sold separately; search for "PSA Back Up Pads" on Grainger.com®.

Vacuum Hole Design	Series	▶CHOOSE: Grit	Discs per Roll	Brand	Item No.
5 in					
5 Hole	A275	80, 100, 120, 150, 180, 220, 240, 320, 400, 500	100	Norton	**H5931**
Non-Vacuum	A275	80, 100, 120, 150, 180, 220, 320, 400, 500	100	Norton	**H5930**
	A290	60, 240, 280	100	Norton	**H5932**
	A475	80, 100, 120, 150, 180, 220	100	Norton	**H5933**
	A975	220, 320, 400	100	Norton	**H5934**
6 in					
6 Hole	A275	80, 100, 120, 150, 180, 220, 280, 320, 600	100	Norton	**H5936**
Non-Vacuum	A275	80, 100, 120, 150, 180, 220, 240, 280, 320, 400, 500	100	Norton	**H5935**
	A290	150, 240, 280	100	Norton	**H5937**
	A475	80, 120, 180, 220	100	Norton	**H5938**
	A975	180, 320	100	Norton	**H5939**

Hook-and-Loop Sanding Discs

Hook-and-loop backing makes discs reusable and enables quick disc changes. Stearate coating reduces disc loading. Designed for use on random orbital and rotary sanders. Use for preparing primed and painted surfaces for finishing; stripping primer and paint; sanding plastic, fiberglass, and bare wood; light weld blending and deburring; and finishing all types of metal. Use with hook-and-loop back-up pads, sold separately; search for "Hook-and-Loop Back Up Pads" on Grainger.com®.

6-Hole H5925

Vacuum Hole Design	Series	▶CHOOSE: Grit	▶CHOOSE: Color	Brand	Item No.	Pkg. Qty.
2 in Disc Dia.						
Non-Vacuum	Surface Prep	180	Blue	—	**447R78**	1
3 in Disc Dia.						
Non-Vacuum	Surface Prep	80, 180	Maroon, Blue	—	**J6885**	1
4 in Disc Dia.						
Non-Vacuum	Surface Prep	40, 80	Brown, Maroon	—	**J6886**	1
4 ½ in Disc Dia.						
Non-Vacuum	Surface Prep	40, 80, 180	Brown, Maroon, Blue	—	**J6887**	1
5 in Disc Dia.						
5 Hole	A275	80, 100, 120, 150, 180, 220, 240, 320, 400, 600	Champagne	Norton	**H5916**	100
	A975	40, 80, 150, 180, 220, 320	Blue	Norton	**H5918**	10
	C0712DO	80	Yellow	—	**J6880**	50
	B0912DO	100, 150, 180, 320, 400, 600	Red	—	**J6879**	100
	Gold	220	Yellow	—	**J6880**	100
8 Hole	A290	100, 150, 180, 220, 320	Gold	Norton	**J4972**	50
Multi-Hole	A975	60, 100, 120	Blue	Norton	**H5918**	10
	Multi-Air Cyclonic	240, 280, 600, 800, 1,000	Blue	Norton	**J2759**	50
Non-Vacuum	A275	80, 100, 120, 150, 180, 220, 240, 320, 400, 500	Champagne	Norton	**H5915**	100
	A275	—	Champagne	Norton	**4MAA2**	100
	A290	80, 100, 120, 150, 180, 220, 320, 400	Yellow	Norton	**H5917**	100
	A975	80, 100, 120, 150, 180	Blue	Norton	**H5920**	50
	H875	40, 80	Blue	Norton	**H5921**	25
	732U	80, 120	Purple	3M	**J2750**	50
	—	40, 80, 220	Brown, Maroon, Blue	—	**J6888**	1
	C0712DO	80, 320	Yellow	—	**J6883**	100
	PB273	100, 120, 220, 400	Beige	—	**J6882**	100
6 in Disc Dia.						
6 Hole	A275	80, 100, 120, 150, 180, 220, 320, 400, 600	Champagne	Norton	**H5925**	100
	732U	80, 120	Purple	3M	**J2752**	50
	PB273	80, 150, 220	Beige	—	**J6881**	100
	B0912DO	100, 120, 180, 400, 600	Red	—	**J6881**	100
Multi-Hole	Multi-Air Cyclonic	80, 120	Blue	Norton	**J2761**	50
	Multi-Air Cyclonic	150, 180, 220, 240, 280, 320, 400, 800, 1,000	Blue	Norton	**J2760**	50
	732U	80, 120	Purple	3M	**J2754**	50
Non-Vacuum	A275	80, 100, 120, 150, 180, 220, 240, 280, 320, 400	Champagne	Norton	**H5924**	100
	A290	80, 100, 120, 150, 180, 220, 320, 400	Yellow	Norton	**H5926**	100
	A975	80, 120, 180	Blue	Norton	**H5927**	50
	PB273	80, 120, 220, 240	Beige	—	**J6884**	100
	C0712DO	320	Yellow	—	**436A25**	100
7 in Disc Dia.						
Non-Vacuum	Surface Prep	80	Maroon	—	**447R77**	1

ARC J1056

PSA Cloth Discs

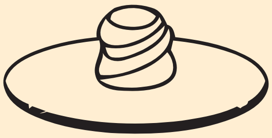
For maintenance and repair applications, from medium grinding to light deburring and finishing. Pressure-sensitive adhesive (PSA) offers fast, convenient disc mounting. Discs are made without center holes for full-face usage.

8" discs and smaller are designed for use on orbital sanders or vertical shaft grinders and must be used with PSA back-up pads, sold separately; search for "PSA Back-Up Pads" on Grainger.com®. Discs 9" and larger are designed for use on stationary disc sanders.

Disc Diameter	▶CHOOSE: Grit	Brand	Item No.
Aluminum Oxide			
AO Series			
2 in	40, 50, 60, 80, 100, 120, 180, 240	ARC Abrasives	**J1056**
3 in	40, 50, 60, 80, 100, 120, 180, 240	ARC Abrasives	**J1059**
5 in	36, 40, 50, 60, 80, 100, 120, 150, 180	ARC Abrasives	**J1061**
6 in	36, 40, 50, 60, 80, 100, 120, 180	ARC Abrasives	**J1062**
8 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1063**
9 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1064**
10 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1051**
12 in	36, 40, 50, 60, 80, 100, 120, 180	ARC Abrasives	**J1052**
15 in	36, 40, 50, 60, 80, 120	ARC Abrasives	**J1053**
16 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1054**
18 in	36, 40, 50, 60, 80, 100	ARC Abrasives	**J1055**
20 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1057**
24 in	36, 40, 50, 60, 80, 100, 120	ARC Abrasives	**J1058**
30 in	40, 50, 60, 80, 120	ARC Abrasives	**J1060**
Approved Vendor			
1 in	100	—	**447R27**
5 in	36, 40, 60, 80, 100, 120, 150, 180, 240, 400	—	**J6891**
6 in	100, 150, 180, 280, 320, 400	—	**J6893**
9 in	80	—	**447R25**
12 in	36, 40, 50, 60, 80, 120	—	**J6890**
Metalite R228			
5 in	36, 40, 50, 60, 80, 100, 120, 150, 180	Norton	**J1125**
6 in	60, 80, 100, 120, 180	Norton	**J1126**
8 in	36, 40, 50, 60, 80, 100, 120	Norton	**J1127**
9 in	60, 100, 150	Norton	**J1128**
10 in	36, 40, 50, 60, 80	Norton	**J1120**
12 in	36, 50, 60, 80, 120	Norton	**J1121**
Zirconia Alumina			
Norzon Plus R821			
10 in	40, 60, 80	Norton	**J1134**
12 in	36, 50, 80	Norton	**J1135**
ZircAlO Series			
5 in	36, 40, 50, 60, 80, 120	ARC Abrasives	**J1069**
12 in	36, 40, 50, 60, 80	ARC Abrasives	**J1065**
16 in	36, 40, 50, 60, 80	ARC Abrasives	**J1066**
20 in	36, 40, 50, 60, 80	ARC Abrasives	**J1067**
24 in	36	ARC Abrasives	**J1068**

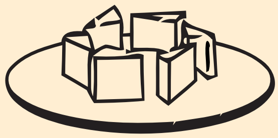
Find Back-Up Pads on page 2374.

Quick Change Disc Specifications



TR (Type 3)
Roll-On/Off

TS/TSM (Type 2)
Turn-On/Off



TP (Type 1)
Snap-On/Off

QUICK CHANGE ATTACHING SYSTEMS

TR (Type 3)	TS (Type 2)	TP (Type 1)
Features a roll-on/roll-off style fastener	Features a turn-on/turn-off syle fastener	Features a snap-on/snap-off style fastener
Fastener is made of plastic	Fastener is made of metal	Fastener is made of nylon

GRIT GUIDE

<table>
<tr><th colspan="2">Coarser for Grinding</th><th colspan="8"></th><th colspan="2">Finer for Finishing</th></tr>
<tr><th>24</th><th>36</th><th>40</th><th>50</th><th>60</th><th>80</th><th>100</th><th>120</th><th>150</th><th>180</th><th>240</th><th>320</th></tr>
<tr><td colspan="2">Heavy Stock Removal</td><td colspan="10"></td></tr>
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<tr><td colspan="8"></td><td colspan="4">Finishing</td></tr>
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GRAIN SELECTION

Abrasive Grain Type	Application
Aluminum Oxide - General Purpose	General purpose metalworking applications
Zirconia Alumina - Heavy Duty	High rate of stock removal and long life in demanding applications
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind materials

General Purpose Quick-Change Cloth Discs

- Aluminum oxide abrasive

Quick-change attachment system helps minimize downtime and improve productivity.

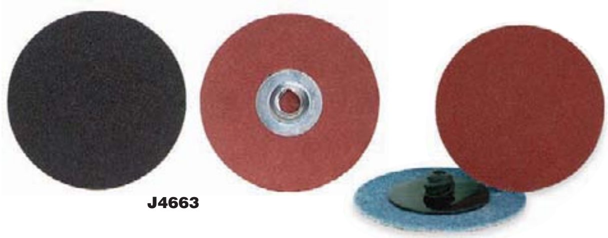
Norton Neon R766—Discs feature Y-weight polyester cloth backing and are excellent for stock removal, leveling, and blending applications on both contoured and flat metal surfaces.

Norton Metalite® R228—X-weight cloth backing. Use for general purpose applications.

Merit—For general use, including blending light welds, breaking edges, and removing parting lines and machine marks. Abrasive surface is laminated to a tough backing for exceptional durability.

3M™ 361F—For deburring, blending, leveling, and finishing all types of materials. Lock securely and unlock easily with just a half twist. Resin bonded for heat resistance. Heavy-duty cloth backing.

ARC Abrasives, Inc® AO Series—Y-weight backing. Use for general purpose grinding.



J4663

J0701

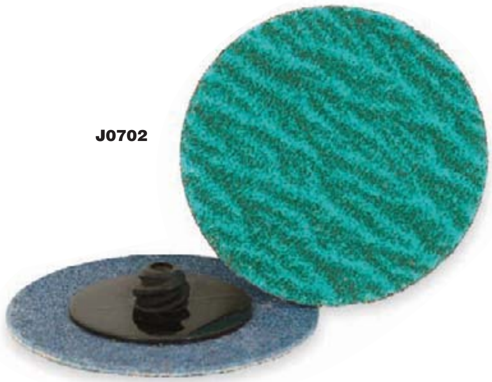
Disc Diameter	▶CHOOSE: Grit	Max. RPM	Disc Attachment Type	Item No.	Pkg. Qty.
TS System, Turn-On/Off					
Norton Neon R766					
1 ½ in	36, 80	30,000 RPM	Type 2	**J4663**	100
	40	30,000	Type 2	**J4663**	100
2 in	24, 36, 40, 60	30,000 RPM	Type 2	**J4664**	100
3 in	50, 60	20,000 RPM	Type 2	**J4665**	50
Norton Metalite R228					
1 in	36, 50, 60, 80, 100, 120	30,000 RPM	Type 2	**J0806**	100
1 ½ in	40, 60, 80, 100, 120, 180	30,000 RPM	Type 2	**J0809**	100
2 in	24, 36, 40, 50, 60, 80, 100, 120, 150, 180, 240, 320	25,000 RPM	Type 2	**J0817**	100
3 in	24, 36, 40, 50, 60, 80, 100, 150, 180, 240	20,000 RPM	Type 2	**J0825**	50
Merit					
1 in	36, 60, 120	40,000 RPM	Type 2	**J0870**	100
2 in	24, 50, 150, 180, 320	30,000 RPM	Type 2	**J0771**	100
3 in	50, 120, 150, 180, 240	20,000 RPM	Type 2	**J0776**	50
TSM System, Turn-On/Off					
3M™ 361F					
1 ½ in	80, 100	30,000 RPM	Type 2	**J0687**	50
2 in	80, 120	25,000 RPM	Type 3	**J0691**	50
3 in	36	20,000 RPM	Type 3	**J0695**	50
	120	20,000 RPM	Type 2	**J0695**	50
TS/TSM Turn-On/Off, Type 2					
Merit					
3 in	36	30,000 RPM	Type 2	**464P77**	1
	60	20,000 RPM	Type 2	**464P75**	1
	120	30,000 RPM	Type 2	**464P76**	1
Approved Vendor					
2 in	60	30,000 RPM	Type 2	**447T22**	1
	80	30,000 RPM	Type 2	**447T23**	1
3 in	60	20,000 RPM	Type 2	**447T27**	1
	80	20,000 RPM	Type 2	**447T28**	1

Disc Diameter	▶CHOOSE: Grit	Max. RPM	Disc Attachment Type	Item No.	Pkg. Qty.
TR System, Roll-On/Off					
Norton Neon R766					
2 in	36, 80	30,000 RPM	Type 3	**J4660**	100
3 in	36, 40, 50, 60, 80	20,000 RPM	Type 3	**J4661**	50
Merit					
1 ½ in	36, 50, 60, 80, 120, 180	30,000 RPM	Type 3	**J0760**	100
1 in	80, 120	40,000 RPM	Type 3	**J0757**	100
2 in	24, 180	30,000 RPM	Type 3	**J0767**	100
3 in	240	20,000 RPM	Type 3	**J0841**	50
ARC AO Series					
2 in	36, 50, 60, 80, 100, 120, 180	30,000 RPM	Type 3	**J0701**	25
3 in	36, 50, 60, 80, 100, 120, 180	20,000 RPM	Type 3	**J0704**	25
3M™ 361F					
1 in	36, 50, 80, 100, 120	30,000 RPM	Type 3	**J0685**	50
1 ½ in	36, 60, 80, 100, 120	30,000 RPM	Type 3	**J0686**	50
2 in	24, 36, 50, 60, 80, 100, 120, 150, 180, 240	25,000 RPM	Type 3	**J0690**	50
3 in	24, 36, 50, 60, 100, 120, 150, 240	20,000 RPM	Type 3	**J0694**	50
TR Roll-On/Off, Type 3					
Approved Vendor					
1 ½ in	60	30,000 RPM	Type 3	**447T20**	1
	180	30,000 RPM	Type 3	**447T21**	1
2 in	80	30,000 RPM	Type 3	**435Z13**	1
	220	30,000 RPM	Type 3	**435Z15**	1
	400	30,000 RPM	Type 3	**447T17**	1
3 in	40	20,000 RPM	Type 3	**435Z14**	1
	80	20,000 RPM	Type 3	**435Z16**	1
	220	20,000 RPM	Type 3	**435Z17**	1
	400	20,000 RPM	Type 3	**447T18**	1
4 in	60	15,000 RPM	Type 3	**447T26**	1
	80	15,000 RPM	Type 3	**447T25**	1
TP System, Snap-On/Off					
Merit					
1 ½ in	36, 60, 80, 120, 180, 240	30,000 RPM	Type 1	**J0761**	100
1 in	60, 80, 100, 120	40,000 RPM	Type 1	**J0756**	100
2 in	24, 150, 320	30,000 RPM	Type 1	**J0769**	100
3 in	180, 240, 320	20,000 RPM	Type 1	**J0775**	50

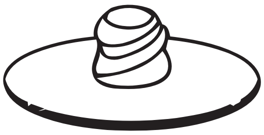
Thread Size	Shank Dia.	Pilot Dia.	Pilot Length	Brand	Item No.	Pkg. Qty.
Quick Change Mandrel						
Quick Change Discs						
¼"- 20	¼ in	—	—	Merit	**464P94**	1
	¼ in	¼ in	3 in	Merit	**464P99**	1
8-32	¼ in	¼ in	3 in	Merit	**464P98**	1
Bore Polishers						
¼"- 20	¼ in	¼ in	8 in	Merit	**464P95**	1

Scan. Order. Done.
Details on page A1.

Find Back-Up Pads on page 2374.



J0702



TR (Type 3) Roll-On/Off

TS/TSM (Type 2) Turn-On/Off

Heavy-Duty Quick-Change Cloth Discs

- Zirconia alumina abrasive

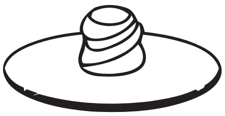
Note: More sizes and styles are available; to see Grainger's full assortment of quick change discs, go to grainger.com/quickchangediscs

ARC Zirc Plus—Self-sharpening zirconia alumina grain offers a consistent removal rate and features an additional grinding aid to reduce heat. Ideal for use on stainless and other heat-sensitive metals.

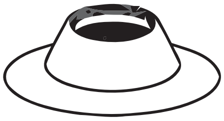
NorZon BlueFire—Self-sharpening zirconia alumina abrasive provides cooler cutting action and longer disc life than aluminum oxide. Heavy Y-weight backing. Great for grinding and deburring stainless steel.

Disc Diameter	▶CHOOSE: Grit	Max. RPM	Item No.	Pkg. Qty.
TR System, Roll-On/Off				
ARC Zirc Plus				
2 in	36, 50, 60, 80, 120	25,000 RPM	**J0702**	25
3 in	36, 50, 60, 80, 120	20,000 RPM	**J0705**	25
NorZon BlueFire				
1½ in	60, 80	30,000 RPM	**J0814**	100
2 in	24, 36, 50, 60, 80	25,000 RPM	**J0822**	25
3 in	24, 36, 50, 60, 80	20,000 RPM	**J0830**	25
TS System, Turn-On/Off				
NorZon BlueFire				
1 in	60, 80	30,000 RPM	**J0807**	100
1½ in	36, 60, 80	30,000 RPM	**J0815**	100
2 in	24, 36, 50, 60, 80	25,000 RPM	**J0823**	25
3 in	24, 36, 50, 60, 80	20,000 RPM	**J0831**	25
4 in	36, 50, 80	12,000 RPM	**J0832**	25

J0812



TR (Type 3) Roll-On/Off



TS/TSM (Type 2) Turn-On/Off

High Performance Quick-Change Discs

- Ceramic abrasive

Note: More sizes and styles are available; to see Grainger's full assortment of quick change discs, go to grainger.com/quickchangediscs.

3M 987C—Precision-shaped ceramic grain for fast cuts with less pressure. Grinding aid minimizes temperature for heat-sensitive alloys. Use on virtually all metals; ideal for stainless steel and nickel alloys. Fiber backing.

3M Cubitron II 947A—The precision-shaped coated ceramic grain is self-sharpening, for consistent, long-lasting performance that resists loading. Excellent for deburring, blending, cleaning, and finishing applications. X-weight poly-cotton backing.

3M Cubitron II 984F—A durable edge backing provides extended edge retention. Precision-shaped ceramic grain is self-sharpening and has a grinding aid for cooler running, wet or dry. YF-weight polyester cloth backing.

ARC Abrasives, Inc. Predator—Premium blend of proprietary grains, plus a grinding aid, with heavy polyester backing. Ideal for grinding mild steel and carbon steel. Fast cut rate and long life. Y-weight cloth backing.

Norton R983—Ceramic grain with "supersize" grinding aid lubricant resists dulling, providing outstanding wear resistance and long-lasting cutting performance. Cloth backing.

Norton SG Blaze R980P—Improved ceramic aluminum oxide grain provides cool cut with fast cut rate. Durable polyester Y-weight backing. Treated with grinding aid for better part finish and integrity. Y-weight cloth backing.

Disc Diameter	▶CHOOSE: Abrasive Grit	Max. RPM	Item No.	Pkg. Qty.
3M 987C				
TR System, Roll-On/Off				
2 in	36,60,80	25,000 RPM	**J2629**	50
3 in	36,60,80	20,000 RPM	**J2631**	50
4 in	36,60,80	12,000 RPM	**J2633**	25
TSM System, Turn-On/Off				
2 in	36,60,80	25,000 RPM	**J2630**	50
3 in	36,60,80	20,000 RPM	**J2632**	50
3M Cubitron II 947A				
TR System, Roll-On/Off				
1½ in	40,60,80,120	30,000 RPM	**J4651**	1
2 in	40,60,80,120	25,000 RPM	**J4652**	1
3 in	40,60,80,120	20,000 RPM	**J4653**	1
4 in	40,60,120	12,000 RPM	**J4654**	1
TSM System, Turn-On/Off				
1½ in	40,60,80,120	30,000 RPM	**J4655**	1
2 in	40,60,80	25,000 RPM	**J4656**	1
2 in	120	25,000 RPM	**J4652**	1
3 in	40,60,80,120	20,000 RPM	**J4657**	1
4 in	40,60,80,120	12,000 RPM	**J4658**	1
3M Cubitron II 984A				
TR System, Roll-On/Off				
2 in	36,60,80	25,000 RPM	**J0692**	50
TSM System, Turn-On/Off				
1½ in	36,60,80	30,000 RPM	**J0689**	50
3M Cubitron II 984F				
TR System, Roll-On/Off				
1½ in	36,60,80	30,000 RPM	**J0688**	50
3 in	36,60,80	20,000 RPM	**J0696**	50
4 in	36,60,80	12,000 RPM	**J0698**	25
TSM System, Turn-On/Off				
2 in	36,60,80	25,000 RPM	**J0693**	50
3 in	36,60,80	20,000 RPM	**J0697**	50
ARC Predator				
TR System, Roll-On/Off				
1 in	60,100	40,000 RPM	**J0706**	100
1½ in	24,40,50,60,80,120	30,000 RPM	**J0709**	100
2 in	24,36,40,50,60,80,100,120	30,000 RPM	**J0713**	100
3 in	24,36,40,50,60,80,100,120	20,000 RPM	**J0717**	50
4 in	24,36,40,50,60,80,100,120	10,000 RPM	**J0721**	25
TS System, Turn-On/Off				
1 in	36,120	40,000 RPM	**J0707**	100
1½ in	24,36	25,000 RPM	**J0711**	100
1½ in	50,60,80,100	30,000 RPM	**J0711**	100
2 in	24,36,40,60,80,100	30,000 RPM	**J0715**	100
2 in	120	25,000 RPM	**J0715**	100
3 in	24,36,40,50,60,80,100,120	20,000 RPM	**J0719**	50
4 in	24,36,60,80,120	10,000 RPM	**J0723**	25
Norton R983				
TR Roll-On/Off				
1½ in	50	30,000 RPM	**J6526**	1
2 in	36,50,60,80,120	30,000 RPM	**J6527**	1
3 in	36,80	30,000 RPM	**J6528**	1
TS/TSM Turn-On/Off				
2 in	120	30,000 RPM	**J6524**	1
3 in	36	30,000 RPM	**J6525**	1
3 in	80	30,000	**J6525**	1
Norton SG Blaze R980P				
TR System, Roll-On/Off				
1½ in	36,50,60,80	30,000 RPM	**J0810**	100
2 in	36,50,60,80	25,000 RPM	**J0818**	25
3 in	36,50,60,80	20,000 RPM	**J0826**	25
TS System, Turn-On/Off				
1½ in	36,50,60,80	25,000 RPM	**J0812**	100
2 in	36,50,60,80	25,000 RPM	**J0820**	25
3 in	36,50,60,80	20,000 RPM	**J0828**	25

Surface Blending Discs

COLOR	GRADE
Gray	Super Fine
Blue	Very Fine
Green	Fine
Maroon	Medium
Brown	Coarse
Black	Extra Coarse

Use on right angle or vertical shaft grinders to remove surface defects, flashing, rust and corrosion, paint, or scale. Also good for cleaning molds, blending mill and tool marks, and imparting finishes.

Merit and Scotch-Brite™—Aluminum oxide grit is excellent for finishing, cleaning, and light deburring; great for general purpose surface conditioning.

Norton Rapid Prep—Provide a smear-free finish, even on high nickel-content alloys; excellent for finishing and blending. Proprietary coating helps extend disc life.

Norton Vortex Rapid Prep—Proprietary aluminum oxide grain and coating help cut process times in half, and wear up to 4x longer. Provide a smear-free finish and will not load on aluminum and soft metals.

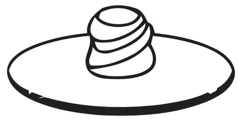
Scotch-Brite™ AL—Non-woven discs have open web construction for outstanding blending and finishing capabilities, and excellent loading resistance; last up to twice as long as standard discs.

Disc Diameter	MERIT Item No.	NORTON RAPID PREP Item No.	NORTON VORTEX RAPID PREP Item No.	3M™ SCOTCH-BRITE™ Item No.	3M™ SCOTCH-BRITE™ AL Item No.
Hook and Loop					
Black					
2"	—	—	22PA98	—	—
3"	—	22PA66	22PC04	—	—
4½"	32UX80	22PA74	22PC14	—	—
5"	32UX66	22PA80	22PC19	—	—
7"	32UX73	22PA85	22PC29	—	—
Blue					
2"	32UX85	22PA65	22PC03	477C48	45EL57
3"	32UX88	22PA70	22PC08	4ZR19	45EL58
4"	32UX91	2D456	22PC13	4ZR20	45EL59
4½"	32UX83	22PA78	22PC18	477C56	45EL60
	—	—	—	—	476T07
5"	32UX69	2D459	22PC23	4ZR22	45EL61
	—	—	—	477C64	—
6"	32UX72	2D462	22PC28	1DAE2	—
7"	32UX76	2D465	22PC33	4ZR23	45EL63
	—	—	—	477C66	—
	—	—	—	477C69	—
8"	—	22PA92	22PC38	477C71	—
48"	—	—	—	477C60	—
Brown					
2"	32UX92	22PA62	22PA99	4ZR51	45EL38
3"	32UX86	22PA67	22PC05	4ZR13	45EL39
4"	32UX89	2D454	22PC10	4ZR49	45EL40
4½"	32UX81	22PA75	22PC15	4ZR96	45EL41
	—	—	—	477C52	—
5"	32UX67	2D457	22PC20	4ZP91	45EL43
6"	32UX70	2D460	22PC25	4ZR02	—
7"	32UX74	2D463	22PC30	4ZP92	45EL45
	—	—	—	477C65	476T08
	—	—	—	477C67	—
8"	—	—	—	4ZP93	—
48"	—	—	—	477C58	—
Gray					
2"	—	—	—	477C49	—
3"	—	—	—	477C50	—
4"	—	—	—	477C51	—
4½"	—	—	—	477C54	—
	—	—	—	477C55	—
	—	—	—	477C57	—
5"	—	—	—	477C62	—
7"	—	—	—	477C68	—
	—	—	—	477C70	—
8"	—	—	—	477C72	—
48"	—	—	—	477C61	—
Green					
3"	—	22PA69	22PC07	—	—
4"	—	22PA73	22PC12	—	—
4½"	—	22PA77	22PC17	—	—
5"	—	—	22PC22	—	—
7"	—	22PA86	22PC32	—	—
Maroon					
1½"	—	—	—	—	477C46
2"	32UX84	22PA63	22PC01	4ZR52	45EL48
3"	—	22PA68	22PC06	4ZR14	45EL49
4"	32UX90	22PA72	22PC11	4ZR50	476T09
4½"	—	—	—	477C53	—
	32UX82	22PA76	22PC16	4ZR95	45EL51
5"	32UX68	2D458	22PC21	4ZP84	45EL53
	—	—	—	477C63	—
6"	32UX71	2D461	22PC26	4ZR03	—
7"	32UX75	2D464	22PC31	4ZP86	45EL55
8"	—	—	—	4ZP89	—
14"	—	—	—	477C47	—
48"	—	—	—	477C59	—
TR Roll-On/Off					
Black					
2"	32UX57	22PC70	22PD21	—	—
3"	32UX40	22PC75	—	—	—
4"	—	—	22PD41	—	—
Blue					
1½"	32UX56	—	22PD19	6RT44	45EL67
2"	32UX60	2D468	22PD29	4ZR33	45EL83
3"	32UX63	2D471	22PD39	4ZR37	45EL86
4"	32UX36	22PC88	22PD49	—	45EL68
Brown					
1½"	32UX54	22PC62	22PD13	6RT42	45EL65
2"	32UX58	2D466	22PD23	4ZR35	45EL85
3"	32UX35	2D469	22PD33	4ZR39	45EL88
4"	—	22PC79	22PD43	—	45EL70
Gray					
2"	—	22PC71	—	4ZR32	—
3"	—	22PC76	—	4ZR36	—
Green					
2"	—	22PC73	22PD27	—	—
3"	—	22PC78	22PD37	—	—
4"	—	—	22PD47	—	—
Maroon					
1½"	32UX55	—	22PD15	4ZR55	45EL66
2"	32UX59	2D467	22PD25	4ZR34	45EL84
3"	32UX62	2D470	22PD35	4ZR38	45EL87
4"	32UX39	22PC80	22PD45	4ZR68	45EL69
TS/TSM Turn-On/Off					
Blue					
1½"	—	22PC67	22PD18	—	45EL95
2"	32UX42	4F799	—	6RZ13	45EL73
	—	—	—	4ZR76	45EL94
3"	—	—	—	6RZ17	45EL98
	32UX47	4F801	22PD38	4ZR79	45EL76
4"	—	—	—	—	45EL79
Brown					
1½"	32UX65	22PC61	22PD12	—	45EL97
2"	—	—	—	4ZR74	45EL91
	32UX33	4F797	22PD22	6RZ10	45EL71
3"	—	—	—	6RZ12	45EL93
	32UX45	4F802	22PD32	4ZR77	45EL74
4"	32UX50	—	22PD42	—	45EL77
Maroon					
1½"	32UX34	22PC63	22PD14	—	45EL96
2"	—	—	—	6RZ09	45EL90
	32UX41	4F798	22PD24	4ZR75	45EL72
3"	—	—	—	6RZ11	45EL92
	32UX46	4F800	22PD34	4ZR78	45EL75
4"	32UX51	22PC84	22PD44	—	45EL78

Hook and Loop Disc

TR Roll-On/Off

TS/TSM Turn-On/Off



TR (Type 3) Roll-On/Off

TS/TSM (Type 2) Turn-On/Off

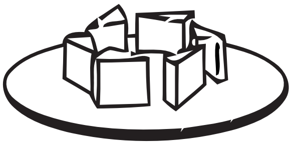
Grinding and Blending Discs

Scotch-Brite™ discs provide light grinding and blending with a single disc. 3M™ ceramic aluminum oxide abrasive blend yields a burr-free, paintable finish. 3M™ TN quick-change attachment system features a ⅝-11 metal mounting nut that threads on tool.

3TPN1

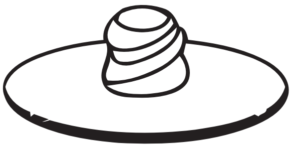
Disc Diameter	Abrasive Grade	Color	Max. RPM	Mfr. Model	Item No.
Scotch Brite™ TN Discs					
4 ½ in	Coarse	Maroon	12,000 RPM	61500292604	**3TPN1**
	Coarse	Blue	12,000 RPM	GB-DN	**3TPN2**
5 in	Coarse	Maroon	12,000 RPM	61500292620	**3TPN3**
	Coarse	Blue	12,000 RPM	GB-DN	**3TPN4**
7 in	Coarse	Blue	8,600 RPM	GB-DN	**3TPN6**

Disc Diameter	Abrasive Grade	Color	Max. RPM	Mfr. Model	Item No.
Scotch Brite™ Roloc™ TR Discs					
2 in	Coarse	Maroon	25,000 RPM	GB-DR	**4YJY3**
	Coarse	Blue	25,000 RPM	GB-DR	**4YJY4**
3 in	Coarse	Maroon	18,000 RPM	GB-DR	**4YJY5**
	Coarse	Blue	18,000 RPM	GB-DR	**4YJY6**



TP (Type 1)
Snap-On/Off

TS/TSM
(Type 2)
Turn-On/Off



TR (Type 3)
Roll-On/Off

TR Pad,
2D472

TS Pad,
6TV08

Hook-and-Loop Pad, 4ZR54

NORTON MERIT 3M

Quick-Change Disc Back-Up Pads

Designed for use on vertical shaft grinders to provide the required support and locking mechanism. Use TS pads with Norton Speed-Lok® TS and Merit® Type 2, Standard Quick-Change™ discs. Use TR pads with Norton Speed-Lok TR, 3M® Roloc™, and Merit Type 3 discs. Medium density can be used for a variety of grinding and finishing applications. Use hard density for high-pressure applications and jobs that require heavy metal removal.

Disc Diameter	Density	Max. RPM	Mfr. Model	Item No.
Norton TS Back-Up Pads, ¼ in Shank				
1 in	Medium	40,000 RPM	63642543185	**3WK69**
1 ½ in	Medium	25,000 RPM	63642543200	**3WK70**
2 in	Hard	30,000 RPM	63642543205	**3WK71**
3 in	Medium	20,000 RPM	63642543225	**4F864**
	Hard	20,000 RPM	63642543220	**3WK72**
4 in	Medium	12,000 RPM	63642543232	**3WK74**
Norton TR Back-Up Pads, ¼ in Shank				
1 ¼ in	Medium	30,000 RPM	66261047580	**3WZ23**
2 in	Medium	25,000 RPM	66261055103	**2D472**
3 in	Medium	20,000 RPM	66261055105	**2D473**
4 in	Medium	12,000 RPM	66261047581	**3WZ24**
Merit TS Back-Up Pads, ¼ in Shank				
1 ½ in	Hard	30,000 RPM	08834164622	**2KNG4**
2 in	Medium	30,000 RPM	08834160011	**3RU43**
3 in	Medium	20,000 RPM	08834160017	**3RU41**
	Hard	20,000 RPM	08834161626	**3RU31**
Merit TR Back-Up Pads, ¼ in Shank				
1 in	Medium	40,000 RPM	08834160002	**3RU39**
2 in	Medium	30,000 RPM	08834160013	**3RU49**
	Hard	30,000 RPM	08834160014	**3RU47**
3 in	Medium	20,000 RPM	08834160022	**3RU50**
	Hard	20,000 RPM	08834160019	**3RU40**
Merit TP Back-Up Pads, ¼ in Shank				
1 ½ in	Medium	30,000 RPM	08834164003	**2KNG3**
2 in	Medium	30,000 RPM	08834160009	**3RU37**
	Hard	30,000 RPM	08834160010	**3RU33**
3 in	Medium	20,000 RPM	08834160015	**3RU38**
	Hard	20,000 RPM	08834160016	**3RU34**
Merit Quick Change Back-Up Pads, ¼"-20 Shank				
3 in	Medium	20,000 RPM	08834164113	**464P96**
3M™ Roloc™ TS Disc Pads				
1 ½ in	Medium	30,000 RPM	77729	**6TV08**
2 in	Medium	25,000 RPM	14211	**6TJ68**
3 in	Medium	18,000 RPM	14215	**6TJ70**
	Hard	20,000 RPM	14216	**6TJ71**
3M™ Roloc™ TR Disc Pads				
1 in	Medium	30,000 RPM	45101	**6TP98**
1 ½ in	Medium	30,000 RPM	45099	**6TP96**
	Hard	30,000 RPM	45100	**6TP97**
2 in	Medium	25,000 RPM	45095	**6TP92**
	Hard	25,000 RPM	45096	**6TP93**
3 in	Medium	18,000 RPM	45092	**6TP89**
	Hard	20,000 RPM	45091	**6TP88**
3M™ Roloc™ Shank				
¼" Shaft x ¼-20 Thread			45102	**6TP99**

Disc Diameter	Max. RPM	Mfr. Model	Item No.
Norton Hook-and-Loop Back-Up Pads, ⅝-11 Arbor Hole			
4 in	13,000 RPM	66261059304	**2D511**
5 in	10,000 RPM	66261059310	**2D512**
6 in	6,000 RPM	66261059312	**2D513**
7 in	6,000 RPM	66261059368	**2D514**
3M Hook-and-Loop Back-Up Pads, ⅝-11 Arbor Hole			
4 in	13,000 RPM	05674	**4ZR41**
4 ½ in	13,000 RPM	14111	**4ZR97**
5 in	10,000 RPM	05680	**4ZR42**
6 in	10,000 RPM	05682	**4ZR43**
7 in	6,000 RPM	09450	**4ZR62**
8 in	6,000 RPM	918	**4ZR63**
3M Hook-and-Loop Back-Up Pads, ¼" Shank			
2 in	23,000 RPM	07494	**4ZR54**
3 in	20,000 RPM	04132	**4ZR15**
4 in	13,000 RPM	07492	**4ZR53**

4ZP88
(Mandrel Sold Seperately)

4ZR93

3M Scotch-Brite™

High-Strength Finishing Discs

Highly conformable Scotch-Brite™ discs are ideal for finishing using bench motors, grinders, or drills. Also for use in antique finishing or highlighting. Remove oxide, light coating, and burrs.

Disc Dia.	Grade	Mounting Hole Size	Max. RPM	Mfr. Model	Item No.
6 in	Very Fine	¼ in	4,000 RPM	HS-DC	**4ZP88**
	Very Fine	½ in	4,000 RPM	HS-DC	**4ZP87**
	Medium	½ in	4,000 RPM	HS-DC	**4ZR17**
8 in	Very Fine	½ in	3,000 RPM	HS-DC	**4ZP90**
	Medium	½ in	3,000 RPM	HS-DC	**4ZR04**

Description	L (in.)	Shank Dia. (in.)	Washer O.D. (in.)	Max. RPM	Mfr. Model	Item No.
Mandrel for High Strength and Clean and Strip Discs	2 in	¼ in	1 in	14,000 RPM	933	**4ZR93**

6RX76

6RX96

3M Scotch-Brite™

Bristle Discs

Scotch-Brite™ Roloc™ discs have bristles that conform to the contours of the workpiece without damaging base material. Designed to resist loading. Use with Roloc™ TR Disc Back-Up Pads (sold separately on this page).

Dia.	Trim Length	36 GRIT Item No.	36 GRIT Pkg. Qty.	50 GRIT Item No.	50 GRIT Pkg. Qty.	80 GRIT Item No.	80 GRIT Pkg. Qty.	120 GRIT Item No.	120 GRIT Pkg. Qty.
1 in	⅝ in	—	—	**6RX73**	1	**6RX74**	1	**4YJZ3**	20
2 in	⅝ in	—	—	**6RX76**	1	**6RX77**	1	**6RX78**	1
3 in	⅝ in	—	—	**6RX79**	1	**6RX80**	1	**6RX81**	1
4 ½ in	¾ in	**1DAB2**	1	**6RX96**	1	**6RX97**	1	**1DAE1**	1

Fiber Disc Application Guide

Disc Diameter	RPM Rating
4	12,000
4½	11,000
5	10,000
7	8,600
9⅛	6,600

GRIT GUIDE								
Coarser for Grinding							Finer for Finishing	
16	24	36	40	50	60	80	100	120
	Stock Removal							
		Edge Chamfering/Beveling						
			Weld Blending					
				Deburring/Deflashing				
					Rust Removal/Blending			
							Cleaning and Finishing	

Norton Metal F240
1KYA8

Norton BlueFire
1YEG3

NORTON SAINT-GOBAIN

General Purpose Fiber Discs

- Aluminum oxide abrasive

Full resin bond and fiber backing provide strength, durability, and tear resistance. Discs designated with ⅞-11 mounting holes feature Norton quick, tool-free, twist on-and-off speed change fasteners. Use on right-angle grinders with back-up pads, sold separately on page 2376.

Norton Metal F240—Designed for general purpose applications and small jobs.

Norton Neon —Provide fast initial cutting action.

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
Norton Metal F240				
4 ½ in	⅞ in	24	**1KYA8**	25
	⅞ in	36	**1KYB2**	25
	⅞ in	50	**1KXL6**	25
	⅞ in	60	**1KXL9**	25
	⅞ in	80	**1KYA4**	25
	⅞ in	100	**1KYA7**	25
	⅞ in	120	**1KWL5**	25
5 in	⅞ in	24	**1KWL6**	25
	⅞ in	36	**1KWL9**	25
	⅞ in	50	**1KXL3**	25
	⅞ in	60	**1KVL4**	25
	⅞ in	80	**1KVL7**	25
	⅞ in	100	**1KWL1**	25
	⅞ in	120	**1KWL2**	25
7 in	⅞ in	24	**1KWL3**	25
	⅞ in	60	**1KVL1**	25
	⅞ in	80	**1KUY8**	25
Norton Neon				
4 in	⅝ in	24	**22UR95**	25
	⅝ in	36	**22UR96**	25
	⅝ in	50	**22UR97**	25
	⅝ in	60	**22UR98**	10
	⅝ in	80	**22UR99**	10
	⅝ in	100	**22UT01**	10
	⅝ in	120	**22UT02**	10
4 ½ in	⅞ in	24	**22UT03**	25
	⅞ in	36	**22UT04**	25
	⅞ in	50	**22UT05**	25
	⅞ in	60	**22UT06**	25
	⅞ in	80	**22UT07**	25
	⅞ in	100	**22UT08**	25
	⅞ in	120	**22UT09**	25
5 in	⅝"-11	36	**22UT31**	25
	⅝"-11	60	**22UT32**	25
	⅞ in	24	**22UT10**	10
	⅞ in	36	**22UT11**	10
	⅞ in	50	**22UT12**	10
	⅞ in	60	**22UT13**	10
	⅞ in	80	**22UT14**	10
	⅞ in	100	**22UT15**	10
	⅞ in	120	**22UT16**	10

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
7 in	⅝"-11	24	**22UT33**	10
	⅝"-11	36	**22UT34**	10
	⅝"-11	50	**22UT35**	10
	⅝"-11	80	**22UT36**	10
	⅝"-11	100	**22UT37**	10
	⅝"-11	120	**22UT38**	10
	⅞ in	24	**22UT17**	10
	⅞ in	36	**22UT18**	10
	⅞ in	50	**22UT19**	10
	⅞ in	60	**22UT20**	25
	⅞ in	80	**22UT21**	10
	⅞ in	100	**22UT22**	10
	⅞ in	120	**22UT23**	10
9 ⅛ in	⅞ in	24	**22UT24**	10
	⅞ in	36	**22UT25**	10
	⅞ in	50	**22UT26**	10
	⅞ in	60	**22UT27**	10
	⅞ in	80	**22UT28**	10
	⅞ in	100	**22UT29**	10
	⅞ in	120	**22UT30**	10
Approved Vendor				
4 ½ in	⅞ in	24	**435Z54**	25
	⅞ in	50	**435Z28**	25
	⅞ in	60	**435Z26**	25
	⅞ in	80	**435Z39**	25
5 in	⅞ in	24	**435Z55**	25
	⅞ in	36	**435Z40**	25
	⅞ in	50	**435Z82**	25
	⅞ in	60	**435Z67**	25
	⅞ in	80	**435Z59**	25
	⅞ in	120	**435Z64**	25
7 in	⅞ in	24	**435Z38**	25
	⅞ in	36	**435Z72**	25
	⅞ in	50	**435Z84**	25
	⅞ in	60	**435Z31**	25
	⅞ in	80	**435Z61**	25
	⅞ in	120	**435Z65**	25

MERIT we know abrasives — NORTON SAINT-GOBAIN

Heavy-Duty Fiber Discs

- Zirconia alumina abrasive

Merit® FX672—Excellent performance on stainless steel.

Norton BlueFire—Self-sharpening abrasive provides fast, aggressive cutting action. Improved resin bond yields longer life. Suitable for stainless, alloys, and high-pressure use.

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
Merit FX672				
4 ½ in	⅞ in	24	**1KYA9**	25
	⅞ in	36	**1KYB3**	25
	⅞ in	50	**1KXL7**	25
	⅞ in	60	**1KYA1**	25
	⅞ in	80	**1KYA5**	25
5 in	⅞ in	24	**1KWL7**	25
	⅞ in	36	**1KXL1**	25
	⅞ in	50	**1KXL4**	25
	⅞ in	60	**1KVL5**	25
	⅞ in	80	**1KVL8**	25
7 in	⅞ in	24	**1KWL4**	25
	⅞ in	60	**1KVL2**	25
	⅞ in	80	**1KUY9**	25
Norton Blue Fire				
4 ½ in	⅞ in	24	**1YEG7**	25
	⅞ in	36	**1YEG6**	25
	⅞ in	50	**1YEG5**	25
	⅞ in	60	**1YEG4**	25
	⅞ in	80	**1YEG3**	25
5 in	⅞ in	24	**1YER1**	25
	⅝"-11	24	**1YEH8**	25
	⅞ in	36	**1YEL1**	25
	⅝"-11	36	**1YEH7**	25
	⅞ in	50	**1YEK9**	25
	⅞ in	60	**1YEN2**	25
	⅞ in	80	**1YEN1**	25

Disc Diameter	Mounting Hole Size	Abrasive Grit	Item No.	Pkg. Qty.
7 in	⅞ in	24	**1YEL9**	25
	⅝"-11	24	**1YEU9**	25
	⅞ in	36	**1YEL8**	25
	⅝"-11	36	**1YEU8**	25
	⅞ in	50	**1YEL7**	25
	⅝"-11	50	**1YEU7**	25
	⅞ in	60	**1YEL6**	25
	⅝"-11	60	**1YEU6**	25
	⅞ in	80	**1YEL5**	25
9 ⅛ in	⅞ in	24	**1YEL4**	25
	⅞ in	36	**1YEL3**	25
	⅞ in	50	**1YEL2**	25
Approved Vendor				
4 ½ in	⅞ in	50	**435Z83**	25
	⅞ in	80	**435Z94**	25
5 in	⅞ in	24	**436A21**	25
	⅞ in	50	**436A02**	25
	⅞ in	60	**436A09**	25
7 in	⅞ in	24	**436A22**	25
	⅞ in	36	**435Z89**	25
	⅞ in	50	**436A13**	25
	⅞ in	80	**435Z97**	25

782C

787C

3M

Roloc Fiber Discs

- Ceramic abrasive
- Pkg. qty. 10

Precision-shaped ceramic grain produces a faster cut and runs cooler for longer service life, increased production, and lower cost-per grind.

782C—An outstanding choice for grinding and cutting carbon steel.

787C—Engineered for use on stainless steel and non-ferrous metals, such as aluminum and titanium.

Disc Diameter	Abrasive Grit	Abrasive Grade	Max. RPM	782C Attachment Type	782C Item No.	787C Attachment Type	787C Item No.
2"	36	Extra Coarse	30,000 RPM	GL	**418C24**	TR	**418C63**
	60	Coarse	30,000 RPM	TR	**418C28**	TR	**418C67**
	80	Coarse	30,000 RPM	TR	**418C32**	TR	**418C71**
	120	Medium	30,000 RPM	—	—	TR	**418C75**
3"	36	Extra Coarse	20,000 RPM	—	**418C25**	TR	**418C64**
	60	Coarse	20,000 RPM	—	**418C29**	TR	**418C68**
	80	Coarse	20,000 RPM	TR	**418C33**	TR	**418C72**
	120	Medium	20,000 RPM	—	—	TR	**418C76**
4"	36	Extra Coarse	12,000 RPM	TN	**418C26**	TR	**418C65**
	36	Extra Coarse	12,000 RPM	—	**418C27**	TS	**418C66**
	60	Coarse	12,000 RPM	TR	**418C30**	TR	**418C69**
	60	Coarse	12,000 RPM	TS	**418C31**	—	—
	80	Coarse	12,000 RPM	TR	**418C34**	TR	**418C73**
	80	Coarse	12,000 RPM	TS	**418C35**	TS	**418C74**
	120	Medium	12,000 RPM	—	—	TR	**418C77**
	120	Medium	12,000 RPM	—	—	TS	**418C78**
4½"	36	Extra Coarse	13,300 RPM	—	**418A98**	—	**418C36**
	36	Extra Coarse	13,300 RPM	TN Quick Change	**418C14**	TN Quick Change	**418C51**
	36	Extra Coarse	13,300 RPM	—	**418C79** *	—	**418C81** *
	60	Coarse	13,300 RPM	TN Quick Change	**418C17**	TN Quick Change	**418C54**
	60	Coarse	13,300 RPM	—	**418C03**	—	**418C41**
	80	Coarse	13,300 RPM	—	**418C07**	—	**418C45**
	80	Coarse	13,300 RPM	TN Quick Change	**418C21**	TN Quick Change	**418C57**
	120	Medium	13,300 RPM	—	—	—	**418C48**
	120	Medium	13,300 RPM	—	—	TN Quick Change	**418C60**
5"	36	Extra Coarse	12,000 RPM	GL Quick Change	**418C11**	TN Quick Change	**418C52**
	36	Extra Coarse	12,000 RPM	TN Quick Change	**418C15**	—	—
	36	Extra Coarse	12,000 RPM	—	**418A99**	—	**418C37**
	60	Coarse	12,000 RPM	TN Quick Change	**418C18**	TN Quick Change	**418C55**
	60	Coarse	12,000 RPM	—	**418C04**	—	**418C42**
	80	Coarse	12,000 RPM	TN Quick Change	**418C22**	TN Quick Change	**418C58**
	80	Coarse	12,000 RPM	—	**418C08**	—	**418C46**
	120	Medium	12,000 RPM	—	—	—	**418C49**
	120	Medium	12,000 RPM	—	—	TN Quick Change	**418C61**
7"	36	Extra Coarse	8,600 RPM	GL Quick Change	**418C12**	TN Quick Change	**418C53**
	36	Extra Coarse	8,600 RPM	TN Quick Change	**418C16**	—	**418C82** *
	36	Extra Coarse	8,600 RPM	—	**418C01**	—	**418C38**
	36	Extra Coarse	8,600 RPM	—	**418C80** *	—	—
	60	Coarse	8,600 RPM	GL Quick Change	**418C13**	TN Quick Change	**418C56**
	60	Coarse	8,600 RPM	—	**418C05**	—	**418C43**
	60	Coarse	8,600 RPM	TN Quick Change	**418C19**	—	—
	80	Coarse	8,600 RPM	—	**418C09**	—	**418C47**
	80	Coarse	8,600 RPM	TN Quick Change	**418C23**	—	—
	80	Coarse	8,600 RPM	GL Quick Change	**418C20**	TN Quick Change	**418C59**
	120	Medium	8,600 RPM	—	—	TN Quick Change	**418C62**
	120	Medium	8,600 RPM	—	—	—	**418C50**
9⅛"	36	Extra Coarse	6,600 RPM	—	**418C02**	—	**418C39**
	60	Coarse	6,600 RPM	—	**418C06**	—	—
	80	Coarse	6,600 RPM	—	**418C10**	—	—

***Includes case.**

Norton F980 Blaze

NORTON SAINT-GOBAIN 3M ARC ABRASIVES INC

High Performance Fiber Discs

- Ceramic abrasive
- ⅞" mounting hole, except 448C06 to 448C08 have ⅝"
- Pkg. qty. 25

Norton F980 Blaze—
Contain a grinding aid to help provide a better finish and longer life on stainless steel and alloyed metals. Heavy fiber backing. For material removal, weld grinding and blending, light deburring, and finishing.

Norton F981 Red Heat—
The coated grain provides faster cutitng, longer life, and a better finish on mild carbon steel, stainless steel, and hard-to-grind alloys.

ARC PREDATOR—Ideal for grinding mild steel and carbon steel. Performance-coated discs are designed for aluminum, soft metals, and alloys. Coating resists loading for high cut rate and performance.

3M 987C—Stand up to robotic weld grinding, and other heavy-duty applications; integrated grinding aid helps extended disc life. Excellent on cobalt and nickel alloys, high-nickel alloy, stainless steel, titanium, and titanium/zirconium substrates.

Disc Diameter	Abrasive Grit	Item No.
Norton F980 Blaze		
4½ in	24	**2KMR1**
	36	**2KMR5**
	50	**2KMR9**
	60	**2KMT4**
	80	**2KMT7**
5 in	24	**2KMR2**
	36	**2KMR6**
	50	**2KMT1**
	60	**2KMT5**
	80	**2KMT8**
7 in	24	**2KMR3**
	36	**2KMR7**
	50	**2KMT2**
	60	**2KMT6**
	80	**2KMT9**
9⅛ in	36	**2KMR8**
	50	**2KMT3**
Norton F981 Red Heat		
4½ in	24	**49P551**
	36	**49P550**
	50	**49P549**
	60	**49P548**
	80	**49P547**
5 in	24	**49P558**
	36	**49P557**
	50	**49P556**
	60	**49P555**
	80	**49P554**
7 in	24	**49P565**
	36	**49P564**
	50	**49P563**
	60	**49P562**
	80	**49P561**
	100	**49P560**
	120	**49P559**
9⅛ in	24	**49P571**
	36	**49P570**
	60	**49P568**
	80	**49P567**

Disc Diameter	Abrasive Grit	Item No.
ARC Predator		
4½ in	24	**13T140**
	36	**13T141**
	50	**13T142**
	60	**13T143**
	80	**13T144**
	120	**13T145**
5 in	24	**13T146**
	36	**13T147**
	50	**13T148**
	60	**13T149**
	120	**13T151**
7 in	24	**13T152**
	36	**13T153**
	50	**13T154**
	60	**13T155**
	80	**13T156**
	120	**13T157**
ARC Predator Performance Coated		
4½ in	50	**13T160**
	60	**13T161**
	80	**13T162**
	120	**13T163**
5 in	36	**13T165**
	50	**13T166**
	60	**13T167**
	80	**13T168**
	120	**13T169**
7 in	36	**13T171**
3M 987C		
4 in	36	**448C06**
	60	**448C07**
	80	**448C08**
4½ in	60	**448A65**
	80	**448A66**
5 in	60	**448F23**
	80	**448F24**
7 in	60	**448C11**

Back-Up Pad
3RA61

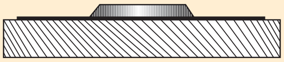
Face Plate
6TJ73

NORTON SAINT-GOBAIN 3M

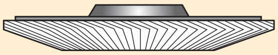
Back-Up Pads and Face Plates

Description	Dia.	Mounting Size	Max. Speed	Brand	Mfr. Model	Item No.
Back-Up Pads						
Air-Cooled Disc Back-Up Pad	5"	⅝"-11	10,000 rpm	Norton	63642543421	**1LZH4**
Disc Back-Up Pad	4"	⅝"-11	12,000 rpm	Norton	63642504918	**3RA61**
	4½"	⅝"-11	11,000 rpm	Norton	63642502122	**4LL38**
	7"	⅝"-11	8600 rpm	Norton	63642543422	**5A975**
	9"	⅝"-11	6600 rpm	Norton	63642543423	**6A035**
Speed-Lok Disc Back-Up Pad	5"	⅝"-11	12,000 rpm	Norton	63642543235	**3WK75**
	7"	⅝"-11	8600 rpm	Norton	63642543245	**3WK77**
Face Plates						
Disc Face Plate	4 ½ in	⅞ in	13,300 rpm RPM	3M	14270	**6TJ73**
	7 in	⅞ in	8,600 RPM	3M	80515	**6TV38**
Face Plate Hubs						
Disc Pad Face Plate Hub	2 ½ in	⅝"-11	—	3M	45205	**6TR47**
	4 ½ in	⅝"-11	—	3M	45190	**6TR35**
Retainer Nuts						
Disc Retainer Nut		⅝-11	—	3M	05622	**6TH46**
Retainer Nut for Speed-Lok Back-Up Pads	⅜"	⅝-11	—	Norton	63642543461	**1LZH5**
	1¾"	⅝-11	—	Norton	63642543463	**1LZH6**

Flap Disc Specifications



Type 27 Flat



Type 29 Conical

WHY CHOOSE A FLAP DISC?	
Flap Discs can replace both grinding wheels and fiber discs. The same flap disc can be used for applications ranging from stock removal to blending.	
Flap Discs vs. Grinding Wheels	**Flap Discs vs. Fiber Discs**
Faster stock removal	Longer life, reduced abrasive cost
Smoother finish with no gouging	Fewer disc changes for reduced cost
Cooler cutting, less glazing	More consistent finish
Lightweight and easier to control	No back-up pad required
Less vibration for reduced operator fatigue	Easier storage with no curling
Reduced noise	Reduced loading
	Grit is coarser size

FLAP DISC SHAPES	
Type 27 Flat	**Type 29 Conical**
Grind at flatter angles 0° to 15°	Grind at steeper angles 15° to 25°
Used primarily on flat surfaces	Have angled flaps and may be used on both contoured and edge work
Best choice for blending and smooth finishing	Angle provides greater surface contact for stock removal on flat surfaces
	Best choice when speed and stock removal are primary considerations

GRAIN SELECTION	
Abrasive Grain Type	**Application**
Ceramic - High Performance	High cut rate and long life on stainless, aluminum and other hard-to-grind materials
Zirconia Alumina - Heavy Duty	High rate of stock removal and long life in demanding applications
Aluminum Oxide - General Purpose	General purpose metalworking applications

GRIT GUIDE

Coarser for Grinding 24	36	40	50	60	80	Finer for Finishing 100	120
Stock Removal	Stock Removal						
	Edge Chamfering/Beveling	Edge Chamfering/Beveling					
	Weld Blending	Weld Blending	Weld Blending				
			Deburring/Deflashing	Deburring/Deflashing			
				Rust Removal/Blending	Rust Removal/Blending		
					Cleaning and Finishing	Cleaning and Finishing	Cleaning and Finishing

BACKING PLATE MATERIALS

Flap discs are a combination of abrasive flaps adhered to a rigid backing plate. The backing plate provides stability during operation.

Backing Material	Advantages
Fiberglass	High strength and lightweight; helps to absorb vibration
Plastic	Offers some conformability and is trimmable
Aluminum	Rigid support for maximum aggression; recyclable
Composite	Trimmable, non-marking; allows access at hard-to-reach angles
Phenolic	Prevents backing from scratching the workpiece

493Z12

H5950

H5949

General Purpose Flap Discs

DEWALT® SG 40

Coated ceramic abrasive provides long life and fast material removal on ferrous metals. Plastic backing.

NEON™ HIGH DENSITY

Larger flaps improve conformity on uneven or contoured surfaces. Fiberglass backing.

NEON™

Alternating aluminum oxide and zirconia alumina flaps. Good for aluminum, brass, bronze, stainless steel, carbon steel, and titanium. Quick-trim flexible plastic backing plate wears away as the disc grinds.

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Item No.
Approved Vendor				
Type 27				
4 in	⅝ in	15,300 RPM	36, 40, 60, 80, 120	**J7232**
4 ½ in	⅝ in	13,300 RPM	36, 120	**J7233**
Type 29				
4 in	⅝ in	15,300 RPM	60	**J7234**
5 in	⅞ in	12,000 RPM	60	**447R68**
Dewalt SG40				
Type 27				
4 ½ in	⅝"-11	13,300 RPM	40	**493Z12**
Norton Neon High Density™				
4 ½ in	⅝"-11	13,300 RPM	36, 40, 60, 80	**H5950**
	⅞ in	13,300 RPM	36, 40, 60, 80	**H5955**
5 in	⅝"-11	12,000 RPM	36, 40, 80	**H5960**
	⅞ in	12,000 RPM	40, 60, 80	**H5964**
6 in	⅝"-11	10,200 RPM	40, 60, 80	**H5968**
	⅞ in	10,200 RPM	36, 40, 60, 80	**H5971**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80	**H5975**
	⅞ in	8,600 RPM	36, 60, 80	**H5980**
Norton Neon™				
Type 27				
4 ½ in	⅝"-11	13,300 RPM	36, 40, 60, 80, 120	**H5949**
	⅞ in	13,300 RPM	36, 40, 60, 80, 120	**H5954**
5 in	⅝"-11	12,000 RPM	36, 40, 60, 80, 120	**H5959**
	⅞ in	12,000 RPM	36, 40, 60, 80, 120	**H5963**
6 in	⅞ in	10,200 RPM	40, 60, 80, 120	**H5970**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80, 120	**H5974**
	⅞ in	8,600 RPM	36, 40, 60, 80, 120	**H5979**
Type 29				
4 ½ in	⅝"-11	13,300 RPM	36, 40, 60, 80, 120	**H7390**
	⅞ in	13,300 RPM	36, 40, 60, 80, 120	**H7391**
5 in	⅝"-11	12,000 RPM	60, 80, 120	**H7392**
	⅞ in	12,000 RPM	36, 40, 60, 80, 120	**H7393**
6 in	⅝"-11	10,200 RPM	40, 60, 80	**H7394**
	⅞ in	10,200 RPM	40, 60, 80	**H7395**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80, 120	**H7396**
	⅞ in	8,600 RPM	40, 60	**H7398**

Blaze® Type 3

Bluefire™ Type 2

Type 2 (TS) and Type 3 (TR) Flap Discs

Mini flap discs offer simultaneous grinding and finishing, to help save you time, labor, and money. High-strength lightweight plastic backing absorbs vibration, while the durable, Y-weight polyester flaps wear away evenly for aggressive cutting and good blending capabilities. For back up pads, see page 2374.

BLAZE®

The Blaze disc can be used on tough materials, such as stainless steel, titanium, and super alloys, and provide up to 200% longer service life. An excellent choice for aerospace, surgical/medical/distilling equipment, food processing/equipment machinery, pressure vessels, and ship containers. A "supersize" grinding aid provides cooler cutting, and a noticeably faster cutting rate.

BLUEFIRE™

The Bluefire discs feature a zirconia alumina abrasive that provides aggressive cutting and up to 30% longer life on mild carbon steel and welds. The semi-open coat also retards loading on aluminum. An excellent choice for farm equipment, propane tanks, civil/construction/military equipment, and plate steel/structural steel.

Disc Type	Disc Dia.	Mounting Size	Max. RPM	▶CHOOSE: Grit	Item No.
SG Blaze®					
Type 2	2 in	QC TS	30,000 RPM	36, 40, 60, 80, 120	**J5071**
	3 in	QC TS	30,000 RPM	36, 40, 60, 80	**J5072**
	3 in	QC TS	20,000 RPM	120	**J5072**
Type 3	2 in	QC TR	30,000 RPM	36, 40, 60, 80, 120	**J5073**
	3 in	QC TR	30,000 RPM	36, 40, 60, 80, 120	**J5074**
Bluefire™					
Type 2	2 in	QC TS	30,000 RPM	36, 40, 60, 80, 120	**J5075**
	3 in	QC TS	30,000 RPM	36, 40, 60, 80, 120	**J5076**
Type 3	2 in	QC TR	30,000 RPM	36, 40, 60, 80, 120	**J5077**
	3 in	QC TR	30,000 RPM	36, 40, 60, 80, 120	**J5078**

Bluefire
H5951

Bobcat Mini
H7334

Tiger Paw
H7358

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Brand	Item No.
Type 27					
Approved Vendor					
4 in	⅝ in	15,300 RPM	80, 60, 40, 120, 36	—	**J7232**
4½ in	⅝ in	13,300 RPM	36, 120	—	**J7233**
Big Cat High Density					
4½ in	⅝"-11	12,000 RPM	40, 60, 80	Weiler	**H7340**
	⅞ in	12,000 RPM	40, 60, 80, 120	Weiler	**H7341**
7 in	⅝"-11	8,600 RPM	40, 60, 80	Weiler	**H7353**
	⅞ in	8,600 RPM	40, 80	Weiler	**H7354**
BlueFire					
4½ in	⅝"-11	13,300 RPM	36, 40, 60, 80	Norton	**H5951**
	⅞ in	13,300 RPM	36, 40, 60, 80	Norton	**H5956**
5 in	⅝"-11	12,000 RPM	36, 40, 60, 80	Norton	**H5961**
	⅞ in	12,000 RPM	36, 40, 60, 80	Norton	**H5965**
6 in	⅞ in	10,200 RPM	40, 60, 80	Norton	**H5972**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80	Norton	**H5976**
	⅞ in	8,600 RPM	36, 40, 60, 80	Norton	**H5981**
Bobcat Mini					
3 in	¼ in	20,000 RPM	36, 40, 60, 80, 120	Weiler	**H7334**
Tiger Paw					
4 in	⅝ in	15,000 RPM	40, 60	Weiler	**H7358**
4½ in	⅝"-11	13,000 RPM	36, 40, 60, 80	Weiler	**H7356**
	⅝"-11	12,000 RPM	60, 36, 40, 80	Weiler	**H7345**
	⅞ in	13,000 RPM	36, 40, 60, 80	Weiler	**H7359**
	⅞ in	12,000 RPM	36, 40, 60, 80	Weiler	**H7360**
5 in	⅝"-11	12,000 RPM	40, 60, 36, 80	Weiler	**H7362**
	⅞ in	12,000 RPM	40, 60	Weiler	**H7363**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80	Weiler	**H7347**
	⅝"-11	8,600 RPM	40, 60	Weiler	**H7346**
	⅞ in	8,600 RPM	40, 60	Weiler	**H7366**

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Brand	Item No.
Type 29					
Approved Vendor					
4 in	⅝ in	15,300 RPM	60	—	**J7234**
5 in	⅞ in	12,000 RPM	60	—	**447R68**
BlueFire					
4 in	⅝ in	15,300 RPM	36, 40, 60, 80	Norton	**H7304**
4½ in	⅝"-11	13,300 RPM	36, 40, 60, 80	Norton	**H7426**
	⅞ in	13,300 RPM	24, 36, 40, 60, 80	Norton	**H7428**
5 in	⅝"-11	12,000 RPM	36, 40, 60, 80	Norton	**H7379**
	⅞ in	12,000 RPM	24, 36, 40, 60, 80	Norton	**H7381**
6 in	⅞ in	10,200 RPM	24, 36, 40, 60, 80	Norton	**H7383**
7 in	⅝"-11	8,600 RPM	36, 40, 60, 80	Norton	**H7386**
	⅞ in	8,600 RPM	24, 36, 60, 80	Norton	**H7388**
Tiger					
4 in	⅝ in	15,000 RPM	36, 60	Weiler	**H7357**
	⅝ in	15,000 RPM	36, 60	Weiler	**H7355**
4½ in	⅝"-11	13,000 RPM	36, 60, 80	Weiler	**H7374**
	⅝"-11	13,000 RPM	40, 60, 80	Weiler	**H7373**
	⅞ in	13,000 RPM	24, 36, 60, 80	Weiler	**H7339**
	⅞ in	13,000 RPM	40, 60, 80	Weiler	**H7337**
5 in	⅝"-11	12,000 RPM	40, 80	Weiler	**H7342**
6 in	⅝"-11	10,200 RPM	40, 60, 80	Weiler	**H7343**
	⅞ in	10,200 RPM	40, 60, 80	Weiler	**H7344**
7 in	⅝"-11	8,600 RPM	80	Weiler	**H7349**
	⅞ in	8,600 RPM	36, 60	Weiler	**H7352**
Tiger Paw					
4½ in	⅝"-11	13,000 RPM	40, 60, 36, 80	Weiler	**H7367**
	⅞ in	13,000 RPM	36, 40, 60, 80	Weiler	**H7361**
5 in	⅝"-11	12,000 RPM	36, 40, 80	Weiler	**H7364**
	⅞ in	12,000 RPM	40, 60	Weiler	**H7365**
7 in	⅞ in	8,600 RPM	60	Weiler	**H7370**

WEILER NORTON SAINT-GOBAIN

Heavy-Duty Flap Discs

APPROVED VENDOR

Zirconia alumina grain with cloth-backing. Discs provide aggressive cutting and offer up to 40% longer life than standard flap discs.

WEILER BIG CAT HIGH DENSITY

Zirconia alumina abrasive with phenolic backing. Enhanced conformability for curved and irregular surfaces. Contain 40% more flaps.

NORTON BLUEFIRE

Zirconia alumina abrasive. Trimmable flexible blue plastic backing plate wears away with grinding to allow full use of the disc and conforms to uneven surfaces.

WEILER BOBCAT MINI

Zirconium grain with plastic backing. Ideal for tight spaces.

WEILER TIGER PAW

100% zirconia alumina discs are ideal for demanding applications such as edge grinding. Phenolic backing. High density discs contain 40% more flaps.

WEILER TIGER

Wheels feature a high-performance, high-density zirconia alumina abrasive for outstanding grinding, and have 35% to 40% more flaps for longer wear. Available with aluminum, phenolic, or trimmable backing.

Cubitron II
H7327

Redheat®
H5957

3M NORTON SAINT-GOBAIN WEILER ARC ABRASIVES INC

High Performance Flap Discs

3M Cubitron II 967A—Precision ceramic grain for use on carbon and stainless steel. Cloth backing. Type 27 Giant flap discs are thicker and contain more abrasive material, to provide longer wear and longer service life.

Redheat—Ceramic/zirconia alumina abrasive. Trimmable, flexible plastic backing plate wears away as flap disc grinds and is highly conformable.

Saber Tooth—Ceramic/alumina discs with self-sharpening grain. Phenolic backing. For use with heat-sensitive materials, aluminum, stainless steel, inconel, and titanium. High Density disc contains 40% more flaps. Trimmable Back disc has nonmarking composite backing that will not damage work piece.

SG Blaze—Ceramic alumina grain lasts longer when grinding stainless steel, cobalt, chrome, Inconel®, titanium, and other hard-to-grind metals. Trimmable, flexible plastic back plate wears away as flap disc grinds.

Tiger X—Features 3X industry exclusive technology that combines an advanced grain anchoring system, dual flap design, and ceramic/zirconium cloth backing for fast grinding and long life.

ARC PREDATOR—Discs use a proprietary blend ceramic abrasive grain that is ideal for grinding mild and carbon steel. AP flap discs provide increased flap exposure for faster stock removal. Hard Edge flap discs are engineered with a compressed outer diameter for heavier and more aggressive use, similar to Type 29. Performance Coating improves cut and life by reducing loading and heat on soft metal applications.

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
Type 27							
3M Cubitron II 967A							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7327**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**H7327**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7328**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**H7328**
5 in	⅝"-11	12,000 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448C30**
	⅝"-11	12,000 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C33**
	⅝"-11	12,000 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C34**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7329**
	⅝"-11	8,600 RPM	60	Medium	Ceramic	3M Cubitron II	**H7329**
	⅝"-11	8,600 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C57**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7330**
	⅞ in	8,600 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C63**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**H7330**
	⅞ in	8,600 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C64**
3M Cubitron II 967A Giant							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**J1554**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**J1554**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**J1555**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**J1555**
5 in	⅞ in	12,000 RPM	40	Coarse	Ceramic	3M Cubitron II	**J1558**
	⅞ in	12,000 RPM	60	Medium	Ceramic	3M Cubitron II	**J1558**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	3M Cubitron II	**J1561**
	⅝"-11	8,600 RPM	60	Medium	Ceramic	3M Cubitron II	**J1561**
3M Cubitron II 969F							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D58**
	⅝"-11	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D59**
	⅞ in	13,300 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D61**
	⅞ in	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D62**
	⅞ in	13,300 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D63**
5 in	⅝"-11	12,100 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D52**
	⅝"-11	12,100 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D55**
	⅝"-11	12,100 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D56**
	⅞ in	12,100 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448F16**
7 in	⅝"-11	8,500 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D64**
	⅝"-11	8,500 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D65**
	⅝"-11	8,500 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D66**
	⅞ in	8,500 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D67**
	⅞ in	8,500 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D68**
	⅞ in	8,500 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D69**
Redheat							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic	Norton	**H5952**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H5952**
	⅞ in	13,300 RPM	36	Extra Coarse	Ceramic	Norton	**H5957**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	Norton	**H5957**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H5957**
	⅞ in	13,300 RPM	120	Fine	Ceramic	Norton	**H5957**
5 in	⅝"-11	12,000 RPM	40	Coarse	Ceramic	Norton	**H5962**
	⅝"-11	12,000 RPM	60	Medium	Ceramic	Norton	**H5962**
6 in	⅝"-11	10,200 RPM	40	Coarse	Ceramic	Norton	**H5969**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	Norton	**H5977**
	⅝"-11	8,600 RPM	80	Medium	Ceramic	Norton	**H5977**
	⅝"-11	8,600 RPM	120	Fine	Ceramic	Norton	**H5977**

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High Performance Flap Discs

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
Type 27 (Cont.)							
4½ in	⅝"-11	13,000 RPM	40	Coarse	Ceramic	Weiler	**J1568**
	⅝"-11	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**J1568**
	⅞ in	13,000 RPM	40	Coarse	Ceramic	Weiler	**J1573**
	⅞ in	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**J1573**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	Weiler	**J1574**
	⅝"-11	8,600 RPM	60, 80	Medium	Ceramic	Weiler	**J1574**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	Weiler	**J1575**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	Weiler	**J1575**
SG Blaze							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic	Norton	**H5953**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H5953**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	Norton	**H5953**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	Norton	**H5958**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H5958**
	⅞ in	13,300 RPM	120	Fine	Ceramic	Norton	**H5958**
5 in	⅝"-11	12,000 RPM	40	Coarse	Ceramic	Norton	**J5404**
	⅝"-11	12,000 RPM	60, 80	Medium	Ceramic	Norton	**J5404**
	⅞ in	12,000 RPM	40	Coarse	Ceramic	Norton	**J5405**
	⅞ in	12,000 RPM	80	Medium	Ceramic	Norton	**J5405**
	⅞ in	12,000 RPM	120	Fine	Ceramic	Norton	**H5967**
6 in	⅝"-11	10,200 RPM	40	Coarse	Ceramic	Norton	**J5402**
	⅝"-11	10,200 RPM	60, 80	Medium	Ceramic	Norton	**J5402**
	⅞ in	10,200 RPM	40	Coarse	Ceramic	Norton	**J5403**
	⅞ in	10,200 RPM	60, 80	Medium	Ceramic	Norton	**J5403**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	Norton	**J5408**
	⅝"-11	8,600 RPM	60, 80	Medium	Ceramic	Norton	**J5408**
	⅝"-11	8,600 RPM	120	Fine	Ceramic	Norton	**H5978**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	Norton	**H5983**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	Norton	**J5409**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	Norton	**H5983**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	Norton	**J5409**
	⅞ in	8,600 RPM	120	Fine	Ceramic	Norton	**H5983**
Tiger X							
4½ in	⅝"-11	13,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1588**
	⅝"-11	13,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1588**
	⅞ in	13,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1587**
	⅞ in	13,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1587**
7 in	⅝"-11	8,600 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1590**
	⅝"-11	8,600 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1590**
	⅞ in	8,600 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1589**
	⅞ in	8,600 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1589**
Type 29							
3M Cubitron II 967A							
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7331**
	⅝"-11	13,300 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448C65**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**H7331**
	⅝"-11	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C66**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7332**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	3M Cubitron II	**H7332**
5 in	⅝"-11	12,000 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C32**
	⅝"-11	12,000 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C35**
	⅞ in	12,000 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**447Z68**
	⅞ in	12,000 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**447Z69**
7 in	⅝"-11	8,600 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7333**
	⅝"-11	8,600 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C58**
	⅝"-11	8,600 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C59**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	3M Cubitron II	**H7325**
	⅞ in	8,600 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448C60**
	⅞ in	8,600 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448C61**
3M Cubitron II 969F							
4 in	⅜"-24	15,000 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D70**
	⅜"-24	15,000 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D71**
	⅜"-24	15,000 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D72**
	⅝ in	15,000 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D73**
	⅝ in	15,000 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D74**
	⅝ in	15,000 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D75**
4½ in	⅝"-11	13,300 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D76**
	⅝"-11	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D77**
	⅝"-11	13,300 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D78**
	⅞ in	13,300 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D79**
	⅞ in	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D80**
	⅞ in	13,300 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448F05**
	⅞ in	13,300 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D81**
5 in	⅝"-11	12,100 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D53**
	⅝"-11	12,100 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D57**
	⅞ in	12,100 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448F14**
	⅞ in	12,100 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448F15**
	⅞ in	12,100 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448F18**
7 in	⅝"-11	8,500 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D82**
	⅝"-11	8,500 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D83**
	⅝"-11	8,500 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D84**
	⅞ in	8,500 RPM	40	Coarse	Ceramic Grain	3M Cubitron II	**448D85**
	⅞ in	8,500 RPM	60	Medium	Ceramic Grain	3M Cubitron II	**448D86**
	⅞ in	8,500 RPM	80	Medium	Ceramic Grain	3M Cubitron II	**448D87**
PREDATOR, Fiberglass Backing							
7 in	⅝"-11	8,600 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J1544**
	⅝"-11	8,600 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1544**
	⅝"-11	8,600 RPM	120	Fine	Ceramic	ARC Abrasives	**J1544**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1545**
	⅞ in	8,600 RPM	120	Fine	Ceramic	ARC Abrasives	**J1545**
PREDATOR AP, Fiberglass Backing							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF84**
	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J1542**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1546**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J1546**
	⅞ in	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**J1549**
	⅞ in	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J1547**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1549**
	⅞ in	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J1549**

SG Blaze®
H5953

Tiger X
J1589

PREDATOR® AP
J5339

Disc Diameter	Mounting Hole Size	Max. RPM	▶CHOOSE: Grit	Abrasive Grade	Abrasive Material	Brand	Item No.
PREDATOR AP, Fiberglass Backing Performance Coated							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF85**
	⅞ in	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**45GF86**
PREDATOR AP, Trimmable Nylon Backing							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J5339**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**45GF75**
PREDATOR AP, Trimmable Nylon Backing Performance Coated							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J5340**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J5340**
PREDATOR Hard Edge, Fiberglass Backing							
4½ in	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J1543**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1543**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J1543**
	⅞ in	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J1548**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1548**
	⅞ in	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J1548**
5 in	⅝"-11	12,150 RPM	120	Fine	Ceramic	ARC Abrasives	**J1550**
	⅞ in	12,150 RPM	36	—	Ceramic	ARC Abrasives	**J1551**
	⅞ in	12,150 RPM	40	Coarse	Ceramic	ARC Abrasives	**J1551**
	⅞ in	12,150 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J1551**
	⅞ in	12,150 RPM	100, 120	Fine	Ceramic	ARC Abrasives	**J1551**
PREDATOR Hard Edge, Trimmable Nylon Backing							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J5341**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**45GF77**
PREDATOR Hard Edge, Trimmable Nylon Backing Performance Coated							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300 RPM	40, 50	Coarse	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	ARC Abrasives	**J5342**
	⅝"-11	13,300 RPM	120	Fine	Ceramic	ARC Abrasives	**J5342**
Redheat							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	Norton	**H7399**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	Norton	**H7400**
	⅞ in	13,300 RPM	60	Medium	Ceramic	Norton	**H7400**
6 in	⅞ in	10,200 RPM	40	Coarse	Ceramic	Norton	**H7403**
	⅞ in	10,200 RPM	60	Medium	Ceramic	Norton	**H7403**
7 in	⅝"-11	8,600 RPM	36	Extra Coarse	Ceramic	Norton	**H7404**
	⅝"-11	8,600 RPM	60	Medium	Ceramic	Norton	**J5411**
	⅞ in	8,600 RPM	36	Extra Coarse	Ceramic	Norton	**H7405**
	⅞ in	8,600 RPM	60, 80	Medium	Ceramic	Norton	**J5412**
	⅞ in	8,600 RPM	120	Fine	Ceramic	Norton	**H7405**
Saber Tooth - Phenolic Backed							
4½ in	⅝"-11	13,000 RPM	36	Extra Coarse	Ceramic	Weiler	**H7371**
	⅝"-11	13,000 RPM	40	Coarse	Ceramic	Weiler	**H7371**
	⅝"-11	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**H7371**
	⅞ in	13,000 RPM	36	Extra Coarse	Ceramic	Weiler	**H7335**
	⅞ in	13,000 RPM	40	Coarse	Ceramic	Weiler	**H7335**
	⅞ in	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**H7335**
7 in	⅝"-11	8,600 RPM	36	Extra Coarse	Ceramic	Weiler	**H7348**
	⅝"-11	8,600 RPM	40	Coarse	Ceramic	Weiler	**H7348**
	⅝"-11	8,600 RPM	60, 80	Medium	Ceramic	Weiler	**H7348**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	Weiler	**H7350**
Saber Tooth - Trimmable Backed							
4½ in	⅝"-11	13,000 RPM	40	Coarse	Ceramic	Weiler	**H7372**
	⅝"-11	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**H7372**
	⅞ in	13,000 RPM	40	Coarse	Ceramic	Weiler	**H7336**
	⅞ in	13,000 RPM	60, 80	Medium	Ceramic	Weiler	**H7336**
SG Blaze							
4½ in	⅝"-11	13,300 RPM	36	Extra Coarse	Ceramic	Norton	**H7406**
	⅝"-11	13,300 RPM	40	Coarse	Ceramic	Norton	**H7406**
	⅝"-11	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H7406**
	⅞ in	13,300 RPM	36	Extra Coarse	Ceramic	Norton	**H7407**
	⅞ in	13,300 RPM	40	Coarse	Ceramic	Norton	**H7407**
	⅞ in	13,300 RPM	60, 80	Medium	Ceramic	Norton	**H7407**
5 in	⅞ in	12,000 RPM	80	Medium	Ceramic	Norton	**H7397**
7 in	⅝"-11	8,600 RPM	36	Extra Coarse	Ceramic	Norton	**H7409**
	⅝"-11	8,600 RPM	40	Coarse	Ceramic	Norton	**H7409**
	⅝"-11	8,600 RPM	60, 80	Medium	Ceramic	Norton	**H7409**
	⅞ in	8,600 RPM	36	Extra Coarse	Ceramic	Norton	**H7410**
	⅞ in	8,600 RPM	40	Coarse	Ceramic	Norton	**H7410**
	⅞ in	8,600 RPM	80	Medium	Ceramic	Norton	**H7410**
Tiger X							
4½ in	⅝"-11	13,000 RPM	36	Extra Coarse	Zirconia Alumina	Weiler	**J1583**
	⅝"-11	13,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1583**
	⅝"-11	13,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1583**
	⅞ in	13,000 RPM	36	Extra Coarse	Zirconia Alumina	Weiler	**J1582**
	⅞ in	13,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1582**
	⅞ in	13,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1582**
5 in	⅝"-11	12,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1585**
	⅝"-11	12,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1585**
	⅞ in	12,000 RPM	36	Extra Coarse	Zirconia Alumina	Weiler	**J1584**
	⅞ in	12,000 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1584**
	⅞ in	12,000 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1584**
7 in	⅝"-11	8,600 RPM	36	Extra Coarse	Zirconia Alumina	Weiler	**J1586**
	⅝"-11	8,600 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1586**
	⅝"-11	8,600 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1586**
	⅞ in	8,600 RPM	36	Extra Coarse	Zirconia Alumina	Weiler	**J1581**
	⅞ in	8,600 RPM	40	Coarse	Zirconia Alumina	Weiler	**J1581**
	⅞ in	8,600 RPM	60, 80	Medium	Zirconia Alumina	Weiler	**J1581**

J0570

MERIT we know abrasives — NORTON SAINT-GOBAIN

Flap Wheels with Arbor Hole

For applications with metal, plastic, wood, fiberglass, and rubber. Use with portable drills, bench grinders, and air tools.

Merit—Aluminum oxide abrasive with standard cloth backing.

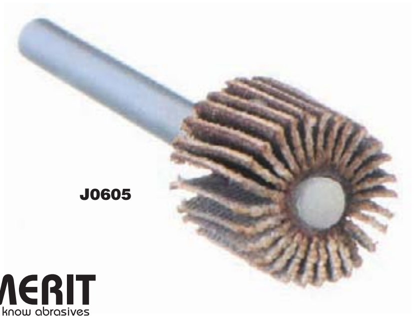
Merit Grind-O-Flex—High-performance aluminum oxide abrasive with upgraded cloth backing for longer life and higher productivity.

Norton NEON—Premium aluminum oxide abrasive and heavy cotton backing is an economical choice for light and moderately demanding applications.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
⅝" Arbor Hole					
3 ½ in	2"	60, 80, 120	12,000 RPM	Merit	**J0567**
4 in	1"	60, 80, 120	12,000 RPM	Merit Grind-O-Flex	**J0570**
		180	12,000 RPM	Merit	**30C796**
5 in		120	12,000 RPM	Norton NEON	**J0559**
1" Arbor Hole					
6 in	1"	40, 180	6,000 RPM	Merit	**J0568**
		60, 80, 120	6,000 RPM	Merit Grind-O-Flex	**J0571**
		80	6,000 RPM	Norton NEON	**J0563**
	1½	60, 80, 120	6,000 RPM	Merit	**J0569**
		120	6000	Norton NEON	**J0564**
	2"	60, 80, 120	6,000 RPM	Merit Grind-O-Flex	**J0572**
		60, 80	6,000 RPM	Norton NEON	**J0565**
		120	6000	Norton NEON	**J0565**
		180	6,000 RPM	Merit	**30C831**
8 in	1"	60, 80, 120	4,500 RPM	Merit Grind-O-Flex	**J0573**
		60, 120	4,500 RPM	Norton NEON	**J0566**

Description	Brand	Item No.
Bushings and Adapters		
¼" Adapter For Use With 3½ in Diameter Wheels	Merit	**3DV22**
¼" Adapter For Use With 4-8 in Diameter Wheels	Merit	**3DV23**

J0605



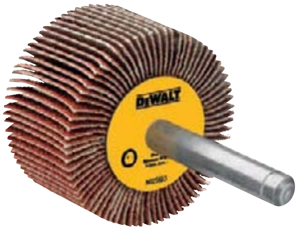
NORTON SAINT-GOBAIN — MERIT we know abrasives

Micro-Mini Mounted Flap Wheels

- ⅛"-dia. steel shank

Provide fast polishing and light deburring of internal work with holes or grooves as small as ⅜" and up to 1³⁄₁₆" dia.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
⅜ in	⅜"	60, 80	40,000 RPM	Norton NEON	**J0617**
		60, 80, 120, 180, 240, 320	40,000 RPM	Merit	**J0605**
⅝ in	⅝"	60, 80	37,000 RPM	Merit	**J0614**
		80, 120	37,000 RPM	Norton NEON	**J0619**
		120	37,000 RPM	Merit	**J0638**
	¾"	80, 120	37,000 RPM	Merit	**H1077**
¾ in	⅜"	60, 80, 120	35,000 RPM	Merit	**J0611**
		80	35,000 RPM	Norton NEON	**J0616**
	⅝"	60, 80, 120	35,000 RPM	Merit	**J0612**
	¾"	60	35,000	Norton NEON	**J0615**
		60, 80, 120	35,000 RPM	Merit	**J0610**
		80, 120	35,000 RPM	Norton NEON	**J0615**



Steel Shank
H6142

Threaded Shank
H6158

DEWALT — NORTON SAINT-GOBAIN — MERIT we know abrasives

Mounted Flap Wheels

- ¼-20 threaded shank

Designed for use with die grinders, portable drills, and air tools. The flaps wear away, continually exposing fresh abrasive and providing uniform finish and consistent cutting action. Flap wheels can conform to most shapes. Use for metal fabricating, blending welds, deburring, cleaning, and finishing.

Norton NEON—An economical choice for cutting hard-to-grind materials such as aluminum, brass, stainless steel, carbon steel, and titanium. Coated aluminum oxide abrasive and heavy cotton backing. Shank is integrally mounted into the wheel.

DeWalt—An excellent choice for surface finishing and preparation, and edge blending and chamfering applications on ferrous metals and stainless steel. High-performance aluminum oxide grit and premium cloth backing.

Merit—Shape to fit any desired contour, even a compound radius. Hardened steel mandrel permanently mounted in epoxy core.

Approved Vendor—Premium aluminum oxide grain is specially treated for high performance. Resin over resin for optimum cutting action and wear out pattern. Specially designed cloth backing with synthetic processing for a good combination of flexibility and sturdiness.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Brand	Item No.
¼" Shank Size, Straight Shank Type					
¾ in	¾"	60, 80, 120	25,000 RPM	DeWalt	**H6142**
		180	35,000 RPM	Norton NEON™	**H6131**
1 in	½"	60	25,000	DeWalt	**H6143**
		80, 120	25,000 RPM	DeWalt	**H6143**
	⅝"	40, 60, 120	30,000 RPM	Merit	**J0641**
		60	30,000 RPM	Norton NEON™	**H6132**
	1"	40, 60, 80, 120, 180, 240	25,000 RPM	DeWalt	**H6144**
		40, 60, 80, 120, 180, 320	30,000 RPM	Merit	**J0639**
	1	40, 240	30,000 RPM	—	**J7235**
1½ in	½"	60, 80, 120	25,000 RPM	Merit	**J0625**
	1"	40, 60, 80, 120, 240	25,000 RPM	DeWalt	**H6145**
	1	40, 80, 180	25,000 RPM	—	**J7236**
	1"	60, 80, 120, 240	25,000 RPM	Merit	**J0642**
	1½"	40, 60, 80, 120	25,000 RPM	Merit	**J0643**
2 in	0.5	80	25,000 RPM	—	**447T07**
	½"	40, 60, 80, 180	25,000 RPM	DeWalt	**H6146**
		60, 120	25,000 RPM	Merit	**H7305**
		180	25,000	Norton NEON™	**H6135**
	¾"	60, 80, 120	25,000 RPM	DeWalt	**H6147**
	1"	40, 60, 80, 120	25,000 RPM	DeWalt	**J0621**
		40, 60, 80, 120, 180, 320	25,000 RPM	Merit	**J0645**
	1	40, 60, 80, 180, 240	25,000 RPM	—	**J7237**
	1.5	60	25,000 RPM	—	**447R99**
	1"	180	25,000 RPM	Norton NEON™	**H6136**
	1½"	80	25,000 RPM	Norton NEON™	**H6137**
		80, 120	25,000 RPM	Merit	**J0646**
		120	25,000	Norton NEON™	**H6137**
2½ in	1"	40, 60, 80, 120	25,000 RPM	DeWalt	**H6148**
	1	60	20,000 RPM	—	**447T01**
3 in	0.5	80	20,000 RPM	—	**447T08**
	½"	40, 60, 80, 120, 180	20,000 RPM	DeWalt	**H6149**
		40, 60	20,000 RPM	Merit	**H7376**
	1"	40, 60, 80, 120, 180, 240	20,000 RPM	DeWalt	**H6150**
	1	60, 80	20,000 RPM	—	**J7238**
¼" Shank Size, Threaded Shank Type					
1 in	⅝"	80	30,000 RPM	Norton NEON™	**H6151**
	1"	60, 80, 120, 180	30,000 RPM	Merit	**J0624**
1⅜ in	⅝"	60, 80, 120	30,000 RPM	Merit	**H6158**
1½ in	1"	120	25,000 RPM	Norton NEON™	**H6154**
1⅝ in		60, 120, 180	25,000 RPM	Merit	**J0626**
2 in	½"	60	25,000 RPM	Norton NEON™	**H6155**
		80, 120, 180	25,000 RPM	Merit	**J0631**
	1"	60, 80, 120	25,000 RPM	Merit	**H6159**
3 in	½"	60, 120, 180	20,000 RPM	Merit	**J0635**

MERIT
we know abrasives

Flap Wheel Kits

Mandrel-Mounted Mini Grind-O-Flex Kit—Includes 10 wheels, 1" to 3" dia., with various grit sizes. Each wheel has ¼" mandrel.

Mini Grind-O-Flex Test Kit—Includes 10 wheels, 1" to 3" dia., and ¼" quick-change adapter. Each wheel has ¼-20 thread.

Description	Mfr. Model	Item No.
Mandrel Mounted Mini Grind-O-Flex Test Kit "CMM"	08834138006	**3RB87**
Mini Grind-O-Flex Test Kit "CQ"	08834138003	**3RB86**

MERIT
we know abrasives

DEWALT

Interleaf Mounted Flap Wheels

- Flexible and conformable
- ¼" dia. shank

Premium aluminum oxide abrasive and nonwoven cloth provide excellent performance and long wheel life for material finishing and surface preparation applications.

Dia.	Abrasive Grit	Abrasive Grade	Max. RPM	Item No.
Merit				
1 in	240	Very Fine	30,000 RPM	**464P81**
2 in	60	Coarse	25,000 RPM	**464P82**
	80	Coarse	25,000 RPM	**464P83**
	120	Medium	12,000 RPM	**3RB91**
		Medium	25,000 RPM	**464P84**
	180	Fine	12,000 RPM	**3RB92**
	320	Very Fine	12,000 RPM	**3RB93**
3 in	60	Coarse	20,000 RPM	**464P85**
		Coarse	20,000 RPM	**464P92**
	120	Medium	12,000 RPM	**3RB94**
		Medium	20,000 RPM	**464P86**
	180	Fine	12,000 RPM	**3RB95**
	240	Very Fine	20,000 RPM	**464P87**
4 in	120	Very Fine	12,000 RPM	**464P80**
DeWalt®				
2 in	60	Coarse	12,000 RPM	**6TMT9**
	100	Medium	12,000 RPM	**6TMU0**
	150	Medium	12,000 RPM	**6TMU1**
3 in		Medium	8,000 RPM	**6TMU4**

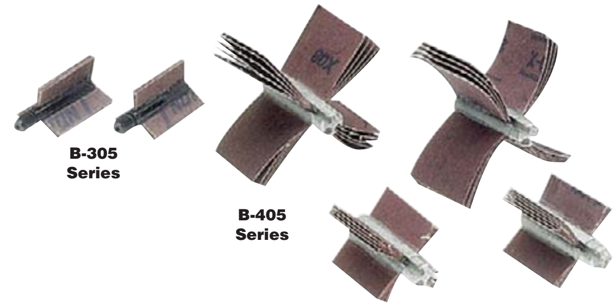
MERIT
we know abrasives

Spiral Rolls and Cartridge Rolls

- ⅛" arbor hole

Use spiral rolls for grinding and polishing channels, fillets, and radii and deburring small holes. Use cartridge rolls for flash removal, polishing, or removing machine tool marks and edge breaking.

Dia.	L	▶CHOOSE: Grit	Item No.
Spiral Rolls			
⅜ in	1 in	60, 80, 120	**H6018**
½ in	1 in	60, 80, 120	**H6020**
	1 ½ in	60, 80, 120	**H6022**
Cartridge Rolls			
⅜ in	1 in	60, 80, 120	**H6024**
½ in	1 ½ in	60, 80, 120	**H6026**
¾ in	1 ½ in	60, 80, 120	**H6028**
Accessory			
Threaded Mandrel ¼ in			**3RB82**



MERIT
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Alo Resin Bond Bore Polishers

- As flaps wear, fresh abrasive is constantly exposed
- Finish a range of interior diameter sizes without changing polisher

Self-centering polishers apply equal pressure to full wall of interior diameter. Spring-action design provides fast cleaning, deburring, and polishing of interior diameter of cylinders, deep tubes, and hydraulic fittings. Flaps adjust automatically to interior diameter, polishing the entire surface area with each pass. Equal spacing between packs of abrasive flaps eliminates heat buildup.

Series	Min. Inner Dia.	Max. Inner Dia.	▶CHOOSE: Grit	Max. RPM	Item No.
Bore Polishers					
B-305	⅝ in	1 in	60, 80, 120, 180	25,000 RPM	**H6015**
B-405	1 in	1 ½ in	60, 80, 120, 180	22,000 RPM	**H6016**
B-410	1 ½ in	2 in	60, 80, 120, 180	20,000 RPM	**H6017**
B-8	5 ¼ in	5 ⅞ in	60	8,000 RPM	**464P72**
B-8	5 ¼ in	5 ⅞ in	180	8,000 RPM	**464P73**
B-8	5 ¼ in	5 ⅞ in	240	8,000 RPM	**464P74**

Pilot Length	Mfr. Model	Item No.
Extension Mandrels, ¼ in Shank		
4 in	08834154463	**3RB59**
6 in	08834154186	**3RB60**
8 in	08834154465	**3RB61**

Thread Size	For Use With	Mfr. Model	Item No.
Mandrels			
5⁄16"-18	B3 Series Bore Polisher	08834154460	**3RB56**
¼"- 20	B4/B8 Series Bore Polisher	08834154461	**3RB57**

MERIT
we know abrasives

Spiral Bands and Expanding Rubber Drums

Fast-cutting spiral bands remove tough material. Achieve close tolerances when finishing curved, contoured, or hard-to-reach areas. Maximum rpm is determined by rpm rating of expanding rubber drum. Use rubber drums to provide backing support for spiral bands. Steel shank enables use of straight shaft and right-angle grinders.

Drum Sanding Kit includes 6 sizes of drums: ½" x ½", ¾" x 1", 1" x 1", 1½" x 1½", 2" x 2½", and 3" x 3", with 1 medium 80 grit and 1 fine 120 grit aluminum oxide abrasive sleeve to fit each drum size.

Dia.	W	▶CHOOSE: Grit	Max. RPM	Item No.
Spiral Bands				
½ in	½ in	120, 80, 50	30,000 RPM	**H6030**
¾ in	1 in	80, 120, 50	17,000 RPM	**H6031**
1 in	1 in	36, 80, 120, 50	18,000 RPM	**H6033**
1½ in	1 ½ in	60, 36, 80	10,000 RPM	**H6035**
2 in	1 in	80, 120	11,000 RPM	**H6037**
3 in	3 in	36	3,000 RPM	**3DV68**

Dia.	W	Shank Size	Max. RPM	Item No.
Expanding Rubber Drums				
¾ in	1 in	¼ in	17,000 RPM	**3X040**
1 in	1 in	¼ in	18,000 RPM	**3X042**
1 ½ in	1 ½ in	¼ in	10,000 RPM	**3X044**
2 in	1 in	¼ in	11,000 RPM	**3X046**
3 in	3 in	⅜ in	3,000 RPM	**3X048**
Drum Sand Rubbering Kit				
18-Pc. Drum Sanding Kit				**3DV67**

Scan. Order. Done.
Details on page A1.

NORTON SAINT-GOBAIN

Conformable Flap Wheels

Fine
2D451

- Aluminum oxide abrasive
- Max. RPM: 12,000

Bear-Tex® wheels are designed for use on die grinders, in polishing and finishing applications on uneven or irregular surfaces. Made of nonwoven nylon web impregnated with abrasive grain.

Dia.	W	Shank Size	Item No.
Fine			
2 in	1"	¼"	**2D449**
3 in	1"	¼"	**2D451**
Very Fine			
2 in	1"	¼"	**2D450**
3 in	1"	¼"	**2D452**

3M Scotch-Brite™

3" Dia. Flap Brushes and Wheels

Scotch-Brite™ brushes remove handling marks and surface imperfections and are ideal for decorative finishes and light deburring. Combi-S Wheels provide an aggressive cut and fine finish. Made of alternating flaps of aluminum oxide-coated abrasives and Scotch-Brite web.

Mandrel Mount
6RV96

Description	W	Abrasive Type	Abrasive Material	Grade	Max. RPM	Item No.
Scotch-Brite™						
Mounted Flap Wheel, ¼" Shank	1¾"	Non-Woven	Aluminum Oxide	Medium	9,000 RPM	**4ZR48**
			Silicon Carbide	Fine	8,500 RPM	**4ZT02**
Mounted Flap Wheel, ¼" Mounting Hole	1¼"		Aluminum Oxide	Medium	10,000 RPM	**6RV96**
Combi-S Wheel, Scotch-Brite™						
¼" Shank	1¾"	Coated	Aluminum Oxide	Medium	8,000 RPM	**6TV94**
				Fine	8,000 RPM	**6TV53**

T-A
6RZ22

T-C
1ED43

3M Scotch-Brite™

Radial Bristle Brushes with Adapters

- Ceramic aluminum oxide abrasive
- Max. RPM: 6,000

Scotch-Brite™ brushes yield faster cut rates; flexible, abrasive-filled bristles provide fresh abrasive to the work surface for uniform finishes and conform to workpiece surface without damaging base material. Excellent replacements for wire brushes. Use on bench motors for general purpose cleaning applications. Include ⅜", ½", ⅝", and ¾" adapters.

Brush Type	Dia.	Mounting Type	Mounting Size	Grit	Color	Item No.
T-A						
Clean and Deburr	6"	Arbor Hole	⅜ in, ½ in, ⅝ in, ¾ in	36	Brown	**6RZ20**
			⅜ in, ½ in, ⅝ in, ¾ in	50	Green	**6RZ21**
			⅜ in, ½ in, ⅝ in, ¾ in	80	Yellow	**6RZ22**
T-C						
Curved Bristles	6"	Arbor Hole	⅜ in, ½ in, ⅝ in, ¾ in	80	Yellow	**1ED43**
			⅜ in, ½ in, ⅝ in, ¾ in	120	White	**1ED44**
			⅜ in, ½ in, ⅝ in, ¾ in	220	Red	**1ED45**

3M Scotch-Brite™

Coating Removal Discs

4½" Disc

- Silicon carbide abrasive
- Extra-coarse grade

Heavy-duty Scotch-Brite discs are made for right-angle tools. The semiopen web construction and nonloading design are ideal for removing rust and coatings from metal surfaces. Hook-and-loop backing easily attaches to 3M disc pad holders, see page 2374.

Disc Diameter	Max. RPM	Mfr. Model	Item No.
4 ½ in	12,000	CR-DH	**1DXP2**
7 in	6000	CR-DH	**1DXP7**

4VV46

6PZ17

NORTON SAINT-GOBAIN

Sanding Discs and Depressed Center Wheels

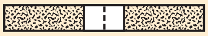
An open web of synthetic fibers and abrasive bond with smear-resistant resin help these wheels provide quick cleaning and conditioning without loading; easily clean uneven surfaces and difficult part profiles. Use to remove surface rust and residue, corrosion, light weld splatter, dirt, mill scale, paint, and epoxy. Prepare surfaces prior to welding or coating application. Clean and condition after welding.

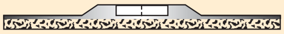
Rapid Prep disc can be used in place of, or in sequence with fiber and flap discs to clean, polish, and finish. Rapid Blend discs and wheels have fine grain particles for cleaning, polishing, and final finishing. Rapid Strip discs and wheels have a coarse abrasive for quick cleaning. Blaze Rapid Strip wheels can strip coatings and finish with the same disc.

Abrasive Type	Disc Attachment System	Disc Attachment Type	Disc Diameter	Abrasive Grade	Abrasive Material	Max. RPM	Item No.
Fiber Disc							
Rapid Strip							
Non-Woven	—	—	6 in	Extra Coarse	Silicon Carbide	5,500 RPM	**6PX92**
Quick Change Disc							
Rapid Blend							
Non-Woven	TR Roll-On/Off	Type 3	3 in	Medium	Aluminum Oxide	18,100 RPM	**16Z963**
Rapid Strip							
Non-Woven	TR Roll-On/Off	Type 3	2 in	Extra Coarse	Silicon Carbide	15,500 RPM	**4VV46**
	TR Roll-On/Off	Type 3	3 in	Extra Coarse	Silicon Carbide	12,000 RPM	**4VV47**
	TR Roll-On/Off	Type 3	3 in	Extra Coarse	Ceramic	12,000 RPM	**16Z960**

Abrasive Wheel Type	Abrasive Wheel Diameter	Thickness	Arbor Hole Size	Abrasive Material	Grit	Max. RPM	Item No.
Depressed Center Wheels							
Blaze Rapid Strip							
Type 27	4 ½ in	1 in	⅝"-11	Ceramic	60	12,000 RPM	**16Z953**
	4 ½ in	1 in	⅞ in	Ceramic	60	12,000 RPM	**16Z954**
Rapid Blend							
Type 27	4 ½ in	0.5 in	⅞ in	Silicon Carbide	320 to 400	12,000 RPM	**2KND7**
	4 ½ in	0.5 in	⅞ in	Aluminum Oxide	180-360	12,000 RPM	**2KND8**
Rapid Prep							
Type 27	4 ½ in	0.5 in	⅞ in	Aluminum Oxide	150-180	12,000 RPM	**2KNE1**
Rapid Strip							
Type 27	4 ½ in	0.5 in	⅝"-11	Silicon Carbide	24-36	12,000 RPM	**6PZ17**
	4 ½ in	0.5 in	⅞ in	Silicon Carbide	24-36	12,000 RPM	**6PZ19**
	7 in	0.5 in	⅝"-11	Silicon Carbide	24-36	6,600 RPM	**6PZ20**
	7 in	0.5 in	⅞ in	Silicon Carbide	24-36	6,600 RPM	**6PZ18**

Grinding and Cut-Off Wheels Reference Guide





TYPE 1	TYPE 27
Straight wheels designed for cut-off applications	Essentially straight wheels that have a “depressed center/raised hub”. Different types of fiberglass reinforcement mesh give the product stability for use on the periphery, on the face, or a combination of the two.

WHEEL TYPE	THICKNESS	APPLICATION	90° Angle	15° to 30° Angle	15° Angle
TYPE 1	0.035", 0.040", 0.045", 1/16"	Where fast cutting and low kerf loss are desired	X		
	0.125"	For tough cutting and notching applications where stability is important	X		
TYPE 27	0.40", 0.45" 1/16"	Cutting only, where fast cutting and low kerf loss are desired	X		
	0.90", 0.125", 3/32"	For tough cutting and notching applications where stability is important; cutting and cleaning burr-free narrow root pass welds	X		
	1/8"	For multiple applications ranging from cutting-off and notching to light-duty side grinding	X	X	
	1/4"	For heavy-duty to light grinding on the bottom/face of the wheel		X	

GENERAL PURPOSE - SILICON CARBIDE

DEWALT
C24R - Silicon carbide grain for long wheel life. For concrete, cast iron, ductile iron, and other masonry materials.
C60T - Premium silicon carbide for aggressive cutting action. Heavy duty for concrete and other masonry materials. Fast burr-free cutting.

NORTON
Norton Masonry/Masonry RightCut - Silicon carbide for masonry applications.

HEAVY-DUTY - ZIRCONIA

DEWALT
Extended Performance Z24R - Premium tough zirconia grain for extended life and material removal. Heavy duty for ferrous metals and stainless steel.
Extended Performance Z60T - Specially treated grain combination for aggressive cutting action. Extended performance, fast, burr-free cutting in all types of ferrous metals and stainless steel.

NORTON
BlueFire - Mix of zirconia and premium aluminum oxide grain. For use with stainless steel, carbon steel, alloys, and gray iron.
BlueFire Fast Cut/INOX - Contains <.1% iron, sulfur, or chlorine for contaminant free grinding.
BlueFire Foundry/Foundry HD - Zirconia alumina/silicon carbide abrasive blend and an exceptionally strong reinforcement structure. Ideal choice for aggressive, foundry applications.
BlueFire Right Cut - Longer life and faster cut rate. Less pressure required for first cut. For cutting only.

UNITED ABRASIVES – SAIT
The Ultimate Combo™ Z-tech™ - High performance, tough zirconium grain, Cutting, notching, deburring, and light grinding for the toughest applications. For use with stainless steel and ferrous metals.
Z-Tech™ - Special zirconium grain formula. Fast, non-binding cutting. For use with ferrous metals, stainless steel, and high tensile alloys.

HIGH PERFORMANCE - CERAMIC AND CERAMIC BLEND

3M
Cubitron™II - 3M precision shaped grain for ultra fast cut and long life. Cuts with less pressure. Specially formulated for stainless and mild steel.
High Performance - A blend of 3M precision shaped ceramic grain and conventional abrasive provides fast cut and long life. Specially formulated for stainless and mild steel.
Silver - 3M precision shaped grain cuts extremely quickly through stainless steel and carbon steel pipes, tube, flat sheets, and more.

NORTON
NorZon Plus - Combination of Norton SG ceramic alumina and Norzon zirconia alumina with advanced bond system. Lowest total grinding cost; highest productivity. Offer the best option when the best combination of life, cut rate, and lowest heat generation is a primary concern.
NorZon Plus Foundry - Designed to withstand the most aggressive foundry applications.
NorZon Plus Long Life - Best option when longest possible life is primary concern, rough grinding conditions require wheel durability, using high cycle, high horsepower grinders and low labor cost are key.
NorZon Plus RightCut - Noticeably longer life and faster cut rate. Less pressure required. For cutting only.

UNITED ABRASIVES – SAIT
Saitech Ultimate Performance™ - High performance, ceramic aluminum oxide grain, Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut, Combines fast cutting with extremely long life for tough cutting applications. For ferrous metals and stainless steel. Ideal for foundry applications (gates, risers).
Saitech™ - High performance, ceramic aluminum oxide grain. Extremely fast stock removal on hard metals with minimal pressure.

GENERAL PURPOSE - ALUMINUM OXIDE

DEWALT
A24R - Aluminum oxide grain for long life and high material removal. Heavy duty for ferrous metals.
A30N- Aluminum oxide grain combination for long wheel life. Fast material removal without loading. For use with aluminum and other non-ferrous materials.
A30S - Aluminum oxide grain for long life and high material removal. Free of iron, sulfur, and chlorine for contaminant free grinding and cutting. Ideal for use in nuclear and food applications.
A36T - Heavy duty cutting in all types of ferrous metal and stainless steel. Fast aggressive cutting in tough applications.
A60S - Proprietary aluminum oxide grain combination for aggressive cutting action. Free of iron, sulfur, and chlorine for contaminant free cutting. Used for cutting stainless steel and other high strength alloys. Ideal in nuclear and food applications.
A60T - Heavy duty cutting in all types of ferrous metal and stainless steel. Clean smooth cutting and long wheel life.
Metal AO - Softer formulation for fast cutting. Quickly cuts rebar, pipe, sheet metal, structural steel and stainless steel.
Mini Hub HP™ - Allows for more cuts per wheel vs. starndard hub design. Fast tool-free wheel changes. Use for a wide range of metal cutting applications.

NORTON
Gemini - Good choice for steel and ferrous metals as well as specialty applications in aluminum and foundries. Quality aluminum oxide provides consistent performance.
Gemini 1-2-3 - For cutting, notching, and grinding.
Gemini Aluminum - Grind aluminum and softer metals without loading. Contains no wax or rubber fillers.
Gemini Fast Cut - Fastest cutting option when speed of completion is the primary concern.
Gemini Flexible - Unique formulation for better blending, finishing and polishing of stainless steel, structural steel, cast iron welds and burrs. Meets nuclear industry standards.
Gemini Free Cut - Use a more flexible binder than the Long Life wheel, for faster cutting on low-horsepower machines.
Gemini Long Life - Longest lasting when the longest possible wheel life is the primary concern.
Gemini RightCut - Precise cutting; more stability and a narrower pass. Requires less pressure, providing increased operator comfort.
Gemini RightCut Aluminum - Specially formulated for aluminum applications.
Gemini Stainless Steel - For contaminant free grinding.
Gemini XXL/XXL Pipefitter - Best on hard grade carbon steel applications, weld repairs, flashing, and any job that requires quick turn around.
Norton Metal/Metal RightCut - Aluminum for steel/ferrous metal applications.

UNITED ABRASIVES – SAIT
A24N - Fast grinding, aluminum oxide grain, soft bond for fast stock removal. For ferrous metals and low grade stainless steel.
A24R - Long life, aluminum oxide grain, general purpose. For ferrous metals.
A24T - Aluminum oxide grain, hard bond designed for edge and bevel grinding and other applications where a harder wheel is preferred. Longer life for fewer wheel changes. For ferrous metals.
A36T - Fast cutting, aluminum oxide grain. Hard bond for aggressive cutting on rough applications. For ferrous metals and stainless steel.
A46N - Aluminum oxide grain, soft bond for aggressive cutting without loading. For use with nonferrous metals and aluminum.
A60S - Special aluminum oxide grain, hard bond for extremely long life. Fast, burr-free cutting for ferrous metals.
A60T - Aluminum oxide grain, hard bond for smooth cutting. Burr-free cutting for ferrous metals and stainless steel. For use in nuclear, aerospace, automotive, foundry industries, and plant maintenance.
Challenger 3™ - Semi-Flexible, grind and blend welds in one step. Open pattern on wheel for cool grinding and blending. For metals, stainless steel, and aluminum. Contaminant Free - Safe for use in the nuclear industry.
SAIT.M.X.™ - Special bond for cutting sheet metal and other thin gauge metals. Fast, burr-free cutting for stainless steel.
The Ultimate Combo™ A60S - General purpose, aluminum oxide grain. Provides consistent performance with long life for cutting, notching, deburring, and light grinding. For use with ferrous metals.
The Ultimate Cut™ - Cutting a wide range of stainless thin and thick gauge, flat stock, bar stock, square tubing, etc. Exceptional cutting performance on metal and aluminum.
XA24Q - Contaminant free. Specially formulated for nuclear and food processing plants. Free of iron, chlorine and sulfur compounds (Fe + Cl + S <0.1%). For use with stainless steel and other high tensile alloys and ferrous metals.
XA46R - Contaminant free. Specially formulated for nuclear and food processing plants. Free of iron, chlorine and sulfur compounds (Fe + Cl + S < 0.1%). For use with stainless steel and other high tensile alloys.

NORTON SAINT-GOBAIN

Type 1 Toolroom Cut-Off Wheels

Designed for use on fixed machinery and preengineered for maximum versatility in toolroom cutting applications. Excellent for cutting off drill bits, steel bars, and tubing; salvaging tools; and slotting workpieces.

NOTE: Refer to Reference Guide for more detailed information on wheel types.

Dia.	Thickness	Arbor Hole	Grit	Max. RPM	Item No.
57A					
2 ½ in	0.0625 in	⅜"	70	30,560	**4DDU2**
7 in		⅝"	36	8,730	**4DDU7**
		⅞"	36	8,730	**4DDU8**
10 in	0.06 in	⅝"	46	4,585	**3UP21**
	0.09 in	⅝"	60	4,585	**4DDV4**
A60					
1 ½ in	0.035 in	1⁄16"	60	40,745	**4DDT9**
		⅛"	60	40,745	**4DDU1**
3 in	0.06 in	¼"	60	25,465	**4DDU3**
		⅜"	60	25,465	**4DDU4**
4 in	0.035 in	¼"	60	19,100	**6PG88**
	0.04 in	⅜"	60	19,100	**4DDU5**
6 in	0.035 in	⅜"	60	10,185	**2D752**
		½"	60	10,190	**2D749**
		⅝"	60	10,190	**2D750**
7 in		⅝"	60	8,730	**2D754**
		1¼"	60	8,730	**2D755**

3UP22

Dia.	Thickness	Arbor Hole	Grit	Max. RPM	Item No.
8 in	0.06 in	½"	60	7,640	**2D758**
		⅝"	60	7,640	**2D756**
		1¼"	60	7,640	**2D757**
10 in		⅝"	60	6,110	**3UP22**
		1¼"	60	6,110	**2D759**

Gemini Right Cut
5GC52

Type 1
United Abrasives- Sait
5LUA1

A60T
6HD43

Type 1 General Purpose Cut-Off Wheels

- Aluminum oxide abrasive

For cutting and grinding ferrous metal, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Stainless					
Gemini	3 in	0.0625 in	⅜ in	25,465	**25TZ46**
	6 in	0.035 in	⅝ in	10,185	**25TZ29**
		0.0625 in	⅝ in	10,190	**25TZ30**
	7 in	0.0625 in	⅝ in	8,730	**25TZ88**
	8 in	0.0625 in	⅝ in	7,640	**25UA03**
Gemini Fast Cut	4 in	0.125 in	⅜ in	19,100	**5A929**
Gemini Free Cut	2 in	0.035 in	⅛ in	30,560	**25TY97**
		0.035 in	¼ in	30,560	**4F871**
		0.035 in	⅜ in	30,560	**4F872**
		0.0625 in	¼ in	30,560	**4F873**
	2 ½ in	0.0625 in	¼ in	30,560	**4F875**
	2 in	0.0625 in	⅜ in	30,560	**4F874**
	2 ½ in	0.07 in	⅜ in	30,560	**4F876**
	2 in	0.125 in	¼ in	30,560	**25TY98**
		0.125 in	⅜ in	30,560	**25TY99**
	3 in	0.035 in	¼ in	25,465	**5A921**
		0.035 in	⅜ in	25,465	**5A922**
		0.0625 in	¼ in	25,465	**5A923**
		0.0625 in	⅜ in	25,465	**5A924**
		0.125 in	¼ in	25,465	**5A925**
		0.125 in	⅜ in	25,465	**5A926**
	4 in	0.035 in	¼ in	19,100	**4B166**
		0.035 in	⅜ in	19,100	**5A927**
		0.0625 in	¼ in	19,100	**4B164**
		0.0625 in	⅜ in	19,100	**5A928**
		0.125 in	¼ in	19,100	**4B165**
Gemini Long Life	3 in	0.125 in	⅜ in	25,465	**25TZ05**
	4 in	0.035 in	⅜ in	19,100	**25TZ27**
Gemini Right Cut		0.045 in	⅝ in	15,280	**5GC50**
	4 ½ in	0.045 in	⅞ in	13,580	**5GC52**
	4 in	0.0937 in	⅝ in	15,280	**25TZ19**
	4 ½ in	0.0937 in	⅞ in	13,580	**25TZ31**
	5 in	0.045 in	⅞ in	12,225	**5GC53**
		0.0937 in	⅞ in	12,225	**25TZ32**
	6 in	0.0937 in	⅞ in	10,185	**25TZ33**
Gemini Right Cut EVO	7 in	0.0625 in	⅞ in	8,600	**25TZ38**
Gemini Right Cut™	6 in	0.045 in	⅞ in	10,285	**5GC54**
Norton Metal	3 in	0.035 in	⅜ in	25,465	**25TY77**
	4 in	0.035 in	⅜ in	19,100	**25TY81**
	6 ½ in	0.125 in	⅝ in	9,400	**25TY88**
	7 in	0.125 in	⅝ in	8,730	**25TY87**
		0.125 in	⅝ in	8,730	**6A097**
	8 in	0.125 in	⅝ in	7,640	**25TY86**
		0.125 in	⅝ in	7,640	**6A099**
Norton Metal RightCut	4 in	0.04 in	⅝ in	15,280	**25TY41**
	4 ½ in	0.04 in	⅞ in	13,580	**25TY43**
	5 in	0.04 in	⅞ in	12,225	**25TY46**
	6 in	0.04 in	⅞ in	10,190	**25TY48**
Sait					
For Aluminum, Ferrous Metal, Nonferrous Materials, Stainless					
The Ultimate Cut™	4 ½ in	0.045 in	⅞ in	13,300	**22PT32**
	5 in	0.045 in	⅞ in	12,200	**22PT33**
	6 in	0.045 in	⅞ in	10,200	**22PT34**
For Aluminum, Nonferrous Materials					
A46N	4 ½ in	0.045 in	⅞ in	13,300	**1AUA2**
	6 in	0.045 in	⅞ in	10,200	**1AUA4**
For Ferrous Metal					
A24R	3 in	0.125 in	⅜ in	20,372	**5LUA9**
	4 ½ in	0.0937 in	⅞ in	13,300	**35KH25**
	4 in	0.125 in	⅜ in	15,278	**5LUC8**
A60S		0.045 in	⅝ in	19,000	**1ATZ2**
	4 ½ in	0.045 in	⅞ in	13,300	**1ATZ3**
		0.09 in	⅞ in	13,300	**1AUD8**
	5 in	0.045 in	⅞ in	12,200	**1ATZ4**
	6 in	0.045 in	⅞ in	10,200	**1ATZ5**
	7 in	0.045 in	⅝ in	8,500	**1ATZ6**
		0.09 in	⅝ in	8,500	**1AUD9**
SAIT.M.X.™	4 ½ in	0.045 in	⅞ in	13,300	**1AUB1**
	5 in	0.045 in	⅞ in	12,200	**1AUB2**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Ferrous Metal, High Tensile Metals, Stainless					
A60T	2 in	0.035 in	¼ in	30,558	**35KH23**
	7 in	0.0625 in	1¼ in	8,732	**35KH26**
For Ferrous Metal, Stainless					
A36T	2 in	0.035 in	¼ in	30,558	**35KH22**
	3 in	0.035 in	¼ in	25,000	**5LUA7**
		0.035 in	⅜ in	25,000	**5LUA5**
		0.0625 in	¼ in	25,000	**5LUA3**
		0.0625 in	⅜ in	25,000	**5LUA1**
	4 in	0.035 in	¼ in	19,000	**5LUC6**
		0.035 in	⅜ in	19,000	**5LUC4**
		0.0625 in	¼ in	19,000	**5LUC2**
		0.0625 in	⅜ in	19,000	**5LUC0**
		0.0625 in	⅝ in	19,000	**35KH24**
A60T	3 in	0.035 in	¼ in	25,000	**5LUA8**
		0.035 in	⅜ in	25,000	**5LUA6**
		0.0625 in	¼ in	25,000	**5LUA4**
		0.0625 in	⅜ in	25,000	**5LUA2**
	4 in	0.035 in	¼ in	19,000	**5LUC7**
		0.035 in	⅜ in	19,000	**5LUC5**
		0.0625 in	¼ in	19,000	**5LUC3**
		0.0625 in	⅜ in	19,000	**5LUC1**
XA46R	4 ½ in	0.0625 in	⅞ in	13,300	**5LUE4**
	5 in	0.0625 in	⅞ in	12,200	**5LUE5**
	7 in	0.0625 in	⅞ in	8,500	**5LUE6**
Dewalt					
A24R	3 in	0.125 in	¼ in	24,000	**3CB18**
		0.125 in	⅜ in	24,000	**3CB17**
	4 in	0.125 in	⅜ in	19,000	**45EG66**
A36T		0.035 in	⅜ in	19,000	**3CB25**
		0.0625 in	⅜ in	19,000	**3CB24**
A60T	3 in	0.035 in	⅜ in	24,000	**3CB20**
		0.0625 in	⅜ in	24,000	**3CB19**
	4 in	0.035 in	⅜ in	19,000	**3CB28**
		0.045 in	⅝ in	19,000	**6HD43**
	4 ½ in	0.045 in	⅞ in	13,300	**6HD44**
	4 in	0.0625 in	⅜ in	19,000	**3CB27**
	5 in	0.045 in	⅞ in	12,200	**6HD45**
	6 in	0.045 in	⅞ in	10,100	**3CB32**
	7 in	0.045 in	⅞ in	8,700	**6HD47**
For High-Strength Metal Cutting					
Mini Hub XP™	4 ½ in	0.045 in	⅝"-11	13,300	**416L05**
	6 in	0.045 in	⅝"-11	10,100	**416L03**
		0.045 in	⅝"-11	10,100	**416L06**
Mini Hub XP™	4 ½ in	0.045 in	⅝"-11	13,300	**416L04**
For Metal Cutting					
Mini Hub HP™	4 ½ in	0.045 in	⅝"-11	13,300	**416L01**
	6 in	0.045 in	⅝"-11	10,100	**416L02**
For Stainless					
A60S	4 ½ in	0.045 in	⅞ in	13,300	**6TMP9**
	6 in	0.04 in	⅞ in	10,100	**6TMR1**
	7 in	0.045 in	⅞ in	8,700	**6TMR2**
AO	4 ½ in	0.0937 in	⅞ in	13,300	**3PA11**
Approved Vendor					
For Cutting Steel, Metal					
—	3 in	0.0625 in	⅜ in	25,465	**447P97**
	4 in	0.0312 in	¼ in	19,100	**447P99**
		0.0469 in	⅝ in	15,280	**447R01**
	4 ½ in	0.0469 in	⅞ in	13,580	**447P96**
	4 in	0.125 in	⅜ in	19,100	**447P95**
	7 in	0.0625 in	⅞ in	8,600	**447R04**
For Ferrous Metal, Gray Iron, Nonferrous Materials, Stainless					
—	12 in	0.125 in	1 in	6,300	**435Y86**
For Metal Cutting					
—	3 in	0.035 in	¼ in	25,465	**435Y61**
		0.035 in	⅜ in	25,465	**435Y60**
	4 in	0.035 in	⅜ in	19,100	**435Y63**
	4 ½ in	0.04 in	⅞ in	13,580	**435Y59**
	4 in	0.0625 in	⅜ in	19,100	**435Y65**
	6 in	0.045 in	⅞ in	10,185	**435Y64**

Norton Masonry
6A098

C60T
3CB42

Type 1 Silicon Carbide Cut-Off Wheels

- Silicon carbide abrasive

For ferrous and nonferrous metals, concrete and masonry.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.	
Norton						
Norton Masonry	7 in	0.125 in	⅝ in	8,730	**6A098**	
		0.125 in	⅝ in	8,730	**25TY84**	*
	8 in	0.125 in	⅝ in	7,640	**25TY83**	*
Norton Masonry RightCut	4 in	0.04 in	⅝ in	15,280	**3RA55**	
	4 ½ in	0.0625 in	⅞ in	13,580	**3RA56**	
	5 in	0.04 in	⅞ in	12,225	**3RA58**	
Sait						
Big M.A.C.™	12 in	0.125 in	²⁵⁄₃₂ in	6,300	**35KH28**	
DeWalt						
C24R	7 in	0.125 in	⅝ in	8,700	**6TMT1**	
C60T	4 in	0.045 in	⅝ in	15,200	**3CB42**	
	4 ½ in	0.045 in	⅞ in	13,300	**3CB43**	

**** Diamond mount.***

Blue Fire
33N541

Z-Tech™
1AUA6

Extended Performance Z60T
6TMT5

Type 1 Heavy-Duty Cut-Off Wheels

- Zirconium aluminum oxide abrasive

For aggressive material removal on ferrous metals, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Aluminum, Ferrous Metal, Gray Iron, Stainless					
BlueFire	3 in	0.035 in	⅜ in	25,465	**33N542**
		0.0625 in	⅜ in	25,465	**33N533**
	4 in	0.035 in	⅜ in	19,100	**33N541**
		0.0625 in	⅜ in	19,100	**33N540**
		0.125 in	⅜ in	19,100	**33N549**
BlueFire Right Cut	4 ½ in	0.0625 in	⅞ in	13,580	**33N332**
	5 in	0.045 in	⅞ in	12,225	**33N333**
	6 in	0.045 in	⅞ in	10,185	**33N334**
Sait					
For Ferrous Metal, Stainless, High Tensile Metals					
Z-Tech™	4 ½ in	0.045 in	⅞ in	13,300	**1AUA6**
For Ferrous Metal, High Tensile Metals, Stainless					
Z-Tech™	4 in	0.045 in	⅝ in	19,000	**35KH27**
For Ferrous Metal, Stainless, High Tensile Metals					
Z-Tech™	4 ½ in	0.09 in	⅞ in	13,300	**1AUE1**
	5 in	0.045 in	⅞ in	12,200	**1AUA7**
	6 in	0.045 in	⅞ in	10,200	**1AUA8**
	7 in	0.045 in	⅝ in	8,500	**1AUA9**
		0.09 in	⅝ in	8,500	**1AUE2**
DeWalt					
For Ferrous Metal, Stainless					
Extended Performance Z60T	4 ½ in	0.045 in	⅞ in	13,300	**6TMT7**
	5 in	0.045 in	⅞ in	12,200	**6TMT6**
	6 in	0.045 in	⅞ in	10,100	**6TMT5**

Find more information on Wheel Materials and Specifications on page 2383.

Type 1 High Performance Cut-Off Wheels

- Ceramic and ceramic blend abrasives

For ferrous metals, stainless steel, aluminum, aerospace alloys, and fiberglass.

NorZon Plus 3UP27

Cubitron™ II 22NZ80

Saitech 5LUC9

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Ferrous Metal, Gray Iron, Stainless					
NorZon Plus	3 in	0.035 in	¼ in	25,465	**25TZ08**
	3 in	0.035 in	⅜ in	25,465	**25TZ09**
	3 in	0.125 in	⅜ in	25,465	**3WL22**
	3 in	0.0625 in	¼ in	25,465	**25TZ10**
	3 in	0.0625 in	⅜ in	25,465	**1PYA8**
	4 in	0.0625 in	⅜ in	19,100	**3UP27**
	4 in	0.035 in	⅜ in	19,100	**3WL24**
3M					
For All Metals, Aluminum, Carbon Steel, Cast Iron, Soft Metals, Stainless Steel					
Silver	3 in	0.035 in	⅜ in	25,465	**450Y17**
	3 in	0.06 in	⅜ in	25,465	**450Y18**
	4 in	0.035 in	¼ in	19,100	**450Y19**
	4 in	0.035 in	⅜ in	19,100	**450Y20**
	4 in	0.06 in	⅜ in	19,100	**450Y21**
	4 ½ in	0.4 in	⅞ in	13,300	**450Y22**
	4 ½ in	0.045 in	⅞ in	13,300	**450Y23**
	5 in	0.045 in	⅞ in	12,250	**450Y25**
	6 in	0.045 in	⅞ in	10,200	**450Y34**
	7 in	0.45 in	⅞ in	8,500	**450Y36**
For Cutting, Grinding, Metalworking					
Silver	4 in	0.125 in	⅜ in	19,100	**480P44**
	4 ½ in	0.094 in	⅞ in	13,300	**480P45**
For Ferrous Metal, Stainless					
CUBITRON II	3 in	0.035 in	¼ in	25,465	**22NZ80**
	3 in	0.035 in	⅜ in	25,465	**22NZ81**
	3 in	0.06 in	⅜ in	25,465	**22NZ83**
	4 in	0.035 in	⅜ in	19,100	**22NZ85**
	4 in	0.06 in	⅜ in	19,100	**22NZ87**
	4 in	0.125 in	⅜ in	19,100	**22NZ91**
	6 in	0.045 in	⅞ in	10,200	**22NZ94**
Sait					
For Ferrous Metal, Stainless					
Saitech Ultimate Performance™	3 in	0.0625 in	⅜ in	25,000	**5LUC9**
	3 in	0.0625 in	¼ in	25,000	**5LUD0**
	3 in	0.035 in	⅜ in	25,000	**5LUD1**
	3 in	0.035 in	¼ in	25,000	**5LUD2**
	4 in	0.0625 in	⅝ in	19,000	**5LUD3**
	4 in	0.035 in	⅝ in	19,000	**5LUD4**
Saitech™	4 in	0.0625 in	⅜ in	19,000	**5LUD5**
	4 in	0.0625 in	¼ in	19,000	**5LUD6**
	4 in	0.035 in	⅜ in	19,000	**5LUD7**
	4 in	0.035 in	¼ in	19,000	**5LUD8**
	4 ½ in	0.045 in	⅞ in	13,300	**1ATZ7**
	5 in	0.045 in	⅞ in	12,200	**1ATZ8**
	6 in	0.045 in	⅞ in	10,200	**1ATZ9**
	7 in	0.045 in	⅝ in	8,500	**1AUA1**

Cut-Off Wheel Adapters

Use with cut-off wheels listed on this page and page 723, 2384 and wire brushes on pages 2394 and 2395.

Note: Operate according to ANSI and OSHA guidelines and do not exceed maximum rpm noted on wheel being used.

Screw-Type Wheel Mandrel Adapters—Machined from stressproof steel. Screw head is slotted for fast, easy change. Plated finish. 1F540 comes with screws to mount either ¼" or ⅜" holes.

Nut-Type Wheel Arbor Adapters—Use to mount all types of wheels (cut-offs, cloth buffs, wire wheels, etc.). Include arbor, hex nut, and a pair of machined steel washers. Plated finish.

Screw-Type

Nut-Type

Fits Hole (in.)	Max. Wheel Width (in.)	Shank Dia. (in.)	Washer O.D. (in.)	L (in.)	Item No.
Screw-Type Wheel Mandrel Adapters					
¼	¼ in	¼ in	¾ in	2 ⅛ in	**1F544** *
⅜	¼ in	¼ in	¾ in	2 ⅛ in	**1F542** *
¼ or ⅜	¼ in	¼ in	¾ in	2 ⅛ in	**1F540** *
Nut-Type Wheel Arbor Adapters					
¼	⅝ in	¼ in	1 in	2 ⁹⁄₁₆ in	**1F452**
⅜	⅝ in	¼ in	1 in	2 ⁹⁄₁₆ in	**1F450**
½	⅝ in	¼ in	1 ½ in	2 ⁹⁄₁₆ in	**1F448**

** Washer O.D. indicates diameter of screw and mandrel head (no washer).*

Type 27 General Purpose Depressed Center Grinding and Cutting Wheels

- Aluminum oxide abrasive

For cutting ferrous metals, stainless steel, and aluminum.

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Aluminum					
Gemini Aluminum	4 ½ in	0.25 in	⅝-11 in	13,580	**4B174**
For Aluminum, Ferrous Metal					
Gemini Aluminum	4 ½ in	0.125 in	⅞ in	13,580	**25TZ63**
	7 in	0.25 in	⅝-11 in	8,600	**25TZ98**
For Aluminum, Ferrous Metal, Gray Iron, Pipeline, Stainless					
Gemini RightCut Aluminum	4 ½ in	0.045 in	⅞ in	13,580	**33N343**
For Aluminum, Ferrous Metal, Gray Iron, Stainless					
Gemini Aluminum	4 in	0.25 in	⅝ in	15,280	**4B173**
	5 in	0.25 in	⅞ in	12,225	**25TZ68**
	7 in	0.25 in	⅝-11 in	8,600	**6A432**
	9 in	0.25 in	⅝-11 in	6,600	**6A433**
Gemini Flexible	2 in	0.125 in	⅜ in	30,560	**4DDY1**
Gemini RightCut Aluminum	5 in	0.045 in	⅞ in	12,225	**33N344**
	6 in	0.045 in	⅞ in	10,185	**33N345**
For Contaminate Free, Ferrous Metal, Gray Iron, Stainless					
Gemini Right Cut	4 ½ in	0.045 in	⅝-11 in	13,580	**33N347**
		0.045 in	⅞ in	13,580	**33N346**
	5 in	0.045 in	⅞ in	12,225	**33N348**
	7 in	0.045 in	⅝-11 in	8,600	**33N353**
		0.045 in	⅞ in	8,600	**33N352**
Gemini Stainless Steel	4 ½ in	0.0938 in	⅝-11 in	13,580	**25TZ60**
		0.0938 in	⅞ in	13,580	**25TZ61**
		0.25 in	⅞ in	13,580	**25TZ65**
	5 in	0.0938 in	⅞ in	12,225	**25TZ66**
		0.25 in	⅞ in	12,225	**25TZ69**
For Ferrous Metal, Gray Iron, Pipeline, Stainless					
Gemini	6 in	0.125 in	⅝-11 in	10,185	**25TZ52**
Gemini Right Cut	4 ½ in	0.0938 in	⅝-11 in	13,580	**33N337**
	5 in	0.0938 in	⅝-11 in	12,225	**33N338**
	6 in	0.0938 in	⅝-11 in	10,185	**33N339**
		0.0938 in	⅞ in	10,185	**33N340**
	7 in	0.0938 in	⅝-11 in	8,600	**33N341**
		0.0938 in	⅞ in	8,600	**33N342**
For Ferrous Metal, Gray Iron, Stainless					
Gemini	3 in	0.25 in	⅜ in	18,000	**4B168**
	4 in	0.125 in	⅜ in	15,280	**4B169**
		0.25 in	⅜ in	15,280	**4B170**
	4 ½ in	0.25 in	⅝-11 in	13,580	**4B171**
	4 in	0.125 in	⅝ in	15,280	**5A863**
		0.25 in	⅝ in	15,280	**6A624**
	4 ½ in	0.25 in	⅞ in	13,580	**6A076**
		0.125 in	⅞ in	13,580	**25TZ84**
	5 in	0.25 in	⅝-11 in	12,225	**25TZ86**
		0.125 in	⅞ in	12,225	**5A865**
		0.25 in	⅞ in	12,225	**5A866**
	6 in	0.25 in	⅝-11 in	10,185	**1PYC5**
		0.125 in	⅝-11 in	10,185	**25TZ44**
		0.125 in	⅞ in	10,185	**1PYD4**
		0.25 in	⅞ in	10,185	**1PYC8**
	7 in	0.125 in	⅝-11 in	8,600	**5A872**
		0.06 in	⅞ in	8,600	**6PJ31**
		0.125 in	⅞ in	8,600	**5A871**
	9 in	0.125 in	⅝-11 in	6,600	**5A874**
		0.06 in	⅝-11 in	6,600	**4RA81**
		0.125 in	⅞ in	6,600	**5A873**

4B168

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Gemini 1-2-3	4 ½ in	0.0938 in	⅞ in	13,500	**25TZ77**
Gemini Fast Cut		0.25 in	⅝-11 in	13,580	**25TZ80**
		0.25 in	⅞ in	13,580	**25TZ79**
	7 in	0.25 in	⅝-11 in	8,600	**25TZ97**
	9 in	0.25 in	⅝-11 in	6,600	**25UA07**
		0.25 in	⅞ in	6,600	**25UA06**

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6HD80

447R46

Type 27 General Purpose Depressed Center Grinding and Cutting Wheels

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton (Cont.)					
For Ferrous Metal, Gray Iron, Stainless (Cont.)					
Gemini Flexible	7 in	0.125 in	⅝-11 in	8,600	**25TZ93**
Gemini Long Life	5 in	0.0938 in	⅞ in	12,225	**25TZ82**
	7 in	0.25 in	⅝-11 in	8,600	**6A077**
		0.25 in	⅞ in	8,600	**5A867**
	9 in	0.25 in	⅝-11 in	6,600	**5A869**
		0.25 in	⅞ in	6,600	**5A868**
Gemini Right Cut	4 ½ in	0.125 in	⅝-11 in	13,580	**4B172**
		0.045 in	⅝-11 in	13,580	**2KNC8**
		0.125 in	⅝-11 in	13,580	**25TZ83**
	4 in	0.045 in	⅝ in	15,280	**25TZ72**
	4 ½ in	0.045 in	⅞ in	13,580	**6PH20**
		0.125 in	⅞ in	13,580	**5A864**
		0.0938 in	⅞ in	13,580	**25TZ56**
	5 in	0.045 in	⅝-11 in	12,225	**2KNC9**
		0.045 in	⅞ in	12,225	**6PH21**
	6 in	0.045 in	⅝-11 in	10,185	**2KND1**
		0.045 in	⅞ in	10,185	**6PH22**
	7 in	0.125 in	⅞ in	8,600	**25TZ87**
Gemini XXL	4 ½ in	0.25 in	⅝-11 in	13,580	**31CF13**
		0.25 in	⅞ in	13,580	**31CF12**
	5 in	0.25 in	⅝-11 in	12,225	**31CF15**
		0.25 in	⅞ in	12,225	**31CF14**
	6 in	0.25 in	⅝-11 in	10,185	**31CF17**
		0.25 in	⅞ in	10,185	**31CF16**
	7 in	0.25 in	⅝-11 in	8,600	**31CF19**
		0.25 in	⅞ in	8,600	**31CF18**
	9 in	0.25 in	⅝-11 in	6,600	**31CF21**
Norton Metal	4 ½ in	0.125 in	⅝-11 in	13,580	**25TY62**
		0.25 in	⅝-11 in	13,580	**25TY59**
	4 in	0.25 in	⅝ in	15,280	**25TY55**
		0.125 in	⅝ in	15,280	**25TY57**
	4 ½ in	0.25 in	⅞ in	13,580	**6PH27**
		0.045 in	⅞ in	13,580	**25TY50**
		0.125 in	⅞ in	13,580	**25TY64**
	5 in	0.125 in	⅝-11 in	12,225	**25TY69**
		0.25 in	⅝-11 in	12,225	**25TY65**
		0.125 in	⅞ in	12,225	**25TY70**
		0.25 in	⅞ in	12,225	**25TY68**
	6 in	0.045 in	⅞ in	10,190	**25TY52**
	7 in	0.125 in	⅝-11 in	8,600	**25TY74**
		0.25 in	⅝-11 in	8,600	**25TY71**
	9 in	0.25 in	⅝-11 in	6,600	**6PJ94**
Norton Metal RightCut	4 in	0.045 in	⅝ in	15,280	**25TY49**
	5 in	0.045 in	⅞ in	12,225	**25TY51**
For Flashing, Hard Grade Carbon Steels, Weld Repairs					
Gemini XXL	4 ½ in	0.125 in	⅝-11 in	13,580	**45PL20**
		0.125 in	⅞ in	13,580	**45PL21**
	5 in	0.125 in	⅝-11 in	12,225	**45PL22**
		0.125 in	⅞ in	12,225	**45PL23**
	7 in	0.125 in	⅝-11 in	8,600	**45PL26**
	9 in	0.125 in	⅝-11 in	6,600	**45PL28**
For Grinding Aluminum and Soft Metals					
Gemini Aluminum	4 ½ in	0.25 in	⅞ in	13,580	**4B175**
Sait					
For Aluminum, Concrete Masonry Asphalt, Contaminate Free, Ferrous Metal, Gray Iron, Nonferrous Materials, Stainless					
Challenger 3™	4 ½ in	0.125 in	⅞ in	13,280	**22PT44**
		0.125 in	⅞ in	13,280	**22PT45**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Aluminum, Ferrous Metal					
A46N	5 in	0.045 in	⅝-11 in	12,200	**31NJ33**
For Aluminum, Ferrous Metal, Nonferrous Materials, Stainless					
The Ultimate Combo™ A60S	4 ½ in	0.095 in	⅝-11 in	13,300	**22PT42**
		0.095 in	⅞ in	13,300	**22PT35**
	5 in	0.095 in	⅞ in	12,200	**22PT36**
The Ultimate Cut™	4 ½ in	0.045 in	⅞ in	13,300	**22PT39**
	5 in	0.045 in	⅞ in	12,200	**22PT40**
	6 in	0.045 in	⅞ in	10,200	**22PT41**
For Aluminum, Nonferrous Materials					
A46N	4 ½ in	0.25 in	⅝-11 in	13,300	**1AUH3**
		0.045 in	⅝-11 in	13,300	**31NJ31**
		0.045 in	⅞ in	13,300	**1AUC5**
		0.25 in	⅞ in	13,300	**2KMH2**
	5 in	0.045 in	⅞ in	12,200	**1AUC6**
	6 in	0.045 in	⅞ in	10,200	**1AUC7**
	7 in	0.25 in	⅝-11 in	8,500	**1AUF4**
		0.045 in	⅞ in	8,500	**1AUC8**
		0.25 in	⅞ in	8,500	**2KMH3**
For Contaminate Free, Stainless					
XA24Q	4 ½ in	0.25 in	⅞ in	13,300	**5LUD9**
	5 in	0.25 in	⅞ in	12,200	**5LUE0**
	6 in	0.25 in	⅞ in	10,200	**5LUE1**
	7 in	0.25 in	⅞ in	8,500	**5LUE2**
	9 in	0.25 in	⅞ in	6,600	**5LUE3**
For Ferrous Metal					
A24R	4 ½ in	0.25 in	⅝-11 in	13,300	**1AUH4**
		0.125 in	⅝-11 in	13,300	**1AUK3**
	4 in	0.25 in	⅝ in	13,500	**35KH12**
	4 ½ in	0.25 in	⅞ in	13,300	**2KMG5**
		0.0938 in	⅞ in	13,300	**35KH19**
	5 in	0.25 in	⅝-11 in	12,200	**1AUH8**
		0.125 in	⅝-11 in	12,200	**1AUK4**
		0.25 in	⅞ in	12,200	**2KMG6**
	6 in	0.125 in	⅝-11 in	10,200	**35KH20**
	7 in	0.25 in	⅝-11 in	8,500	**1AUF2**
		0.125 in	⅝-11 in	8,500	**1AUK1**
		0.25 in	⅞ in	8,500	**2KMG7**
	9 in	0.25 in	⅝-11 in	6,600	**1AUF6**
		0.125 in	⅝-11 in	6,600	**1AUK2**
		0.25 in	⅞ in	6,600	**2KMG8**
A24T	4 ½ in	0.25 in	⅝-11 in	13,300	**1AUH6**
		0.25 in	⅞ in	13,300	**2KMG9**
	7 in	0.25 in	⅝-11 in	8,500	**1AUH9**
		0.25 in	⅞ in	8,500	**2KMH1**
A60S	4 ½ in	0.045 in	⅝-11 in	13,300	**31NJ30**
	4 in	0.045 in	⅝ in	19,000	**1AUB4**
	4 ½ in	0.045 in	⅞ in	13,300	**1AUB5**
		0.0938 in	⅞ in	13,300	**35KH15**
	5 in	0.045 in	⅝-11 in	12,200	**31NJ32**
		0.045 in	⅞ in	12,200	**1AUB9**
	6 in	0.045 in	⅞ in	10,200	**1AUB6**
	7 in	0.045 in	⅞ in	8,500	**1AUB7**
For Ferrous Metal, Pipeline					
A24R	4 ½ in	0.125 in	⅞ in	13,300	**2KMJ6**
	5 in	0.125 in	⅞ in	12,200	**2KMJ7**
	7 in	0.125 in	⅞ in	8,500	**2KMJ8**
	9 in	0.125 in	⅞ in	6,600	**2KMJ9**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
For Ferrous Metal, Stainless					
A24N	4 in	0.25 in	⅜ in	13,500	**35KH11**
	4 ½ in	0.25 in	⅝-11 in	13,300	**1AUH1**
		0.25 in	⅞ in	13,300	**2KMG2**
		0.1875 in	⅞ in	13,300	**35KH13**
	5 in	0.25 in	⅝-11 in	12,200	**1AUH7**
		0.25 in	⅞ in	12,200	**2KMG3**
	6 in	0.25 in	⅞ in	10,200	**35KH14**
	7 in	0.25 in	⅝-11 in	8,500	**1AUF1**
		0.25 in	⅞ in	8,500	**2KMG4**
A24R	4 ½ in	0.0938 in	⅝-11 in	13,300	**4AYF2**
A60S		0.09 in	⅝-11 in	13,300	**1AUE3**
	6 in	0.09 in	⅝-11 in	10,200	**1AUE4**
	7 in	0.09 in	⅝-11 in	8,500	**1AUE5**
	9 in	0.09 in	⅝-11 in	6,600	**1AUE6**
DeWalt					
For Aluminum					
High Performance	4 ½ in	0.25 in	⅝-11 in	13,300	**6HD70**
	4 in	0.25 in	⅝ in	15,200	**6HD68**
	4 ½ in	0.25 in	⅞ in	13,300	**6HD69**
	7 in	0.25 in	⅝-11 in	8,700	**6HD72**
	9 in	0.25 in	⅝-11 in	6,600	**6HD73**
For Contaminate Free, Stainless					
High Performance	4 ½ in	0.25 in	⅝-11 in	13,300	**6HD76**
		0.125 in	⅝-11 in	13,300	**6TNC3**
	4 in	0.25 in	⅝ in	15,200	**6HD74**
	4 ½ in	0.045 in	⅞ in	13,300	**6TMP5**
		0.25 in	⅞ in	13,300	**6HD75**
	6 in	0.125 in	⅝-11 in	10,100	**6TNC6**
		0.045 in	⅞ in	10,100	**6TMP7**
		0.25 in	⅞ in	10,100	**6TNC0**
		0.125 in	⅞ in	10,100	**6TNC5**
	7 in	0.25 in	⅞ in	8,700	**3PA19**
	9 in	0.25 in	⅝-11 in	6,600	**6HD79**
For Ferrous Metal					
High Performance	4 ½ in	0.25 in	⅝-11 in	13,300	**4WM67**
		0.0938 in	⅝-11 in	13,300	**5TU26**
	4 in	0.25 in	⅝ in	15,200	**4KZ22**
	4 ½ in	0.25 in	⅞ in	13,300	**4KZ28**
		0.0938 in	⅞ in	13,300	**5TU24**
		0.25 in	⅞ in	13,300	**5TE66**
	5 in	0.25 in	⅝-11 in	12,200	**6HC19**
		0.0938 in	⅝-11 in	12,200	**5TU30**
		0.25 in	⅞ in	12,200	**4KZ38**
	6 in	0.0938 in	⅝-11 in	10,100	**5TU34**
		0.25 in	⅞ in	10,100	**6HC20**
	7 in	0.25 in	⅝-11 in	8,700	**4PC20**
		0.0938 in	⅝-11 in	8,700	**5TU38**
		0.25 in	⅞ in	8,700	**4PC13**
		0.0938 in	⅞ in	8,700	**5TU36**
	9 in	0.25 in	⅝-11 in	6,600	**4KZ80**
		0.25 in	⅞ in	6,600	**6HC38**
For Ferrous Metal, Pipeline					
High Performance	4 ½ in	0.125 in	⅝-11 in	13,300	**6HD86**
		0.125 in	⅞ in	13,300	**6HD85**
	5 in	0.125 in	⅝-11 in	12,200	**6HD87**
	6 in	0.125 in	⅝-11 in	10,100	**5TU12**
	7 in	0.125 in	⅝-11 in	8,700	**6HD88**
		0.125 in	⅞ in	8,700	**3PA24**
	9 in	0.125 in	⅝-11 in	6,600	**6HD89**
For Ferrous Metal, Stainless					
High Performance	4 ½ in	0.045 in	⅝-11 in	13,300	**6TMR3**
	4 in	0.045 in	⅝ in	15,200	**6HD80**
	4 ½ in	0.045 in	⅞ in	13,300	**6HD81**
	5 in	0.045 in	⅞ in	12,200	**6HD82**
	6 in	0.045 in	⅝-11 in	10,100	**6TMR7**
		0.045 in	⅞ in	10,100	**6HD83**
	7 in	0.045 in	⅝-11 in	8,700	**6TND5**
		0.045 in	⅞ in	8,700	**6HD84**
Metal AO	4 ½ in	0.25 in	⅝-11 in	13,300	**5TE72**
	4 in	0.125 in	⅝ in	15,200	**4KZ21**
	4 ½ in	0.25 in	⅞ in	13,300	**5TE70**
		0.125 in	⅞ in	13,300	**4KZ29**
	5 in	0.25 in	⅝-11 in	12,200	**5TE76**
		0.25 in	⅞ in	12,200	**5TE74**
	6 in	0.25 in	⅝-11 in	10,100	**5TE80**
		0.25 in	⅞ in	10,100	**5TE78**
	7 in	0.25 in	⅝-11 in	8,700	**5TE84**
		0.25 in	⅞ in	8,700	**5TE82**
	9 in	0.25 in	⅝-11 in	6,600	**5TE88**
		0.125 in	⅞ in	6,600	**6RM60**
Approved Vendor					
For Alloy Steels, Cast Iron, Ferrous Metals, Stainless Metals					
Carbo Gold	4 ½ in	0.0938 in	⅝-11 in	13,580	**447R33**
Carbo Redcut	5 in	0.0469 in	⅞ in	12,225	**447R40**
Premier Red	4 ½ in	0.25 in	⅝-11 in	13,580	**447R36**
		0.125 in	⅞ in	13,580	**447R41**
For Alloy Steels, Ferrous Metal					
Carbo Gold	4 in	0.0625 in	⅝ in	15,280	**447R42**
Carbo Goldcut	4 ½ in	0.0469 in	⅝-11 in	13,580	**447R43**
Carbo White		0.25 in	⅝-11 in	13,580	**447R46**
For Ferrous Metal, Gray Iron, Nonferrous Materials, Stainless					
Gold	3 in	0.125 in	⅜ in	25,465	**435Y68**
	5 in	0.25 in	⅝ in	12,225	**435Y78**
		0.045 in	⅞ in	12,225	**435Y76**
High Speed Blade Metal	12 in	0.125 in	1 in	6,300	**435Y86**
	14 in	0.125 in	1 in	5,400	**435Y70**

LENOX

MetalMax Diamond Cutting Wheels

- 40/50 grit
- For cutting most metals

Dia.	Arbor Hole Size	Thickness	Max. RPM	Item No.
Type 1				
1½ in	⅜ in	0.05 in	40,200	**48RW93**
2 in	⅜ in	0.05 in	30,500	**48RW94**
3 in	⅜ in	0.05 in	20,300	**48RW95**
4 in	⅜ in	0.05 in	15,200	**48RW96**
	⅝ in	0.05 in	15,200	**48RW97**
4½ in	⅞ in	0.05 in	13,200	**48RW98**
5 in	⅞ in	0.05 in	12,200	**48RW99**
6 in	⅞ in	0.05 in	10,100	**48RX01**
7 in	⅞ in	0.06 in	8,400	**48RX02**
8 in	⅝ in	0.06 in	7,600	**48RX03**
Type 27				
4½ in	⅞ in	0.05 in	13,200	**493Z16**
6 in	⅞ in	0.05 in	10,100	**493Z17**
7 in	⅞ in	0.06 in	8,400	**493Z18**

48RX03

48RW98

NORTON SAINT-GOBAIN UNITED ABRASIVES, INC. SAIT DEWALT

Type 27 Heavy-Duty Depressed Center Grinding and Cutting Wheels

- Zirconium aluminum oxide abrasive

For aggressive material removal on ferrous metals, stainless steel and aluminum.

BlueFire
33N287

Z-tech
1AUK5

Z24R
5TU92

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For Contaminate Free, Ferrous Metal, Gray Iron, Stainless					
BlueFire Fast Cut/ INOX	4½ in	0.125 in	⅝-11 in	13,580	**33N297**
		0.25 in	⅝-11 in	13,580	**33N299**
		0.125 in	⅞ in	13,580	**33N296**
		0.25 in	⅞ in	13,580	**33N298**
	5 in	0.25 in	⅝-11 in	12,225	**33N304**
		0.125 in	⅞ in	12,225	**33N301**
	6 in	0.125 in	⅝-11 in	10,185	**33N306**
		0.125 in	⅞ in	10,185	**33N305**
	7 in	0.125 in	⅝-11 in	8,600	**33N289**
		0.25 in	⅝-11 in	8,600	**33N291**
	9 in	0.125 in	⅝-11 in	6,600	**33N293**
		0.25 in	⅞ in	6,600	**33N294**
For Ferrous Metal, Gray Iron, Nonferrous Materials					
BlueFire Foundry	7 in	0.125 in	⅞ in	8,600	**25TZ92**
For Ferrous Metal, Gray Iron, Nonferrous Materials, Stainless					
BlueFire Foundry	4½ in	0.125 in	⅝-11 in	13,580	**33N544**
		0.25 in	⅝-11 in	13,580	**33N535**
		0.125 in	⅞ in	13,580	**33N543**
		0.25 in	⅞ in	13,580	**33N519**
	7 in	0.125 in	⅝-11 in	8,600	**33N547**
		0.25 in	⅝-11 in	8,600	**33N525**
		0.25 in	⅞ in	8,600	**33N546**
	9 in	0.25 in	⅝-11 in	6,600	**33N527**
		0.125 in	⅝-11 in	6,600	**33N526**
		0.25 in	⅞ in	6,600	**33N548**
		0.125 in	⅞ in	6,600	**33N536**
For Ferrous Metal, Gray Iron, Stainless					
BlueFire	4 in	0.25 in	⅜ in	15,280	**33N287**
		0.125 in	⅜ in	15,280	**33N550**
		0.25 in	⅝ in	19,100	**33N534**
	4½ in	0.25 in	⅝-11 in	13,580	**33N313**
		0.125 in	⅝-11 in	13,580	**33N311**
		0.25 in	⅞ in	13,580	**33N314**
		0.125 in	⅞ in	13,580	**33N312**
	5 in	0.25 in	⅝-11 in	12,225	**33N317**
		0.125 in	⅝-11 in	12,225	**33N315**
		0.25 in	⅞ in	12,225	**33N318**
		0.125 in	⅞ in	12,225	**33N316**
	6 in	0.25 in	⅝-11 in	10,185	**33N323**
		0.25 in	⅞ in	10,185	**33N310**
		0.125 in	⅞ in	10,185	**33N309**
	7 in	0.25 in	⅝-11 in	8,600	**33N326**
		0.125 in	⅝-11 in	8,600	**33N324**
		0.25 in	⅞ in	8,600	**33N327**
		0.125 in	⅞ in	8,600	**33N325**
	9 in	0.25 in	⅝-11 in	6,600	**33N330**
		0.125 in	⅝-11 in	6,600	**33N328**
		0.25 in	⅞ in	6,600	**33N331**
		0.125 in	⅞ in	6,600	**33N329**
BlueFire Foundry	4 in	0.25 in	⅜ in	15,280	**33N552**
		0.25 in	⅝ in	15,280	**33N551**
BlueFire Foundry HD	9 in	0.25 in	⅝-11 in	6,600	**33N539**
		0.25 in	⅞ in	6,600	**33N532**
BlueFire Right Cut	4½ in	0.0625 in	⅝-11 in	13,580	**33N322**
		0.045 in	⅞ in	13,580	**33N319**
	5 in	0.045 in	⅞ in	12,225	**33N320**
	6 in	0.045 in	⅞ in	10,185	**33N321**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Sait					
For Ferrous Metal, Pipeline, Stainless					
Z-Tech	4½ in	0.125 in	⅞ in	13,300	**2KMK1**
	7 in	0.125 in	⅞ in	8,500	**2KMK2**
	9 in	0.125 in	⅞ in	6,600	**2KMK3**
For Ferrous Metal, Stainless					
The Ulimate Combo Ztech	4½ in	0.095 in	⅝-11 in	13,300	**22PT43**
		0.095 in	⅞ in	10,200	**22PT37**
	5 in	0.095 in	⅞ in	12,200	**22PT38**
The Ultimate Cut	4½ in	0.045 in	⅝-11 in	13,300	**31NJ36**
	5 in	0.045 in	⅝-11 in	12,200	**31NJ39**
Z-Tech	4½ in	0.09 in	⅝-11 in	13,300	**1AUE7**
		0.25 in	⅝-11 in	13,300	**1AUK5**
		0.125 in	⅝-11 in	13,300	**1AUK9**
		0.045 in	⅝-11 in	13,300	**31NJ34**
		0.045 in	⅞ in	13,300	**1AUD1**
		0.25 in	⅞ in	13,300	**2KMJ2**
	5 in	0.25 in	⅝-11 in	12,200	**1AUK6**
		0.045 in	⅝-11 in	12,200	**31NJ37**
		0.045 in	⅞ in	12,200	**1AUD2**
		0.25 in	⅞ in	12,200	**2KMJ3**
	6 in	0.09 in	⅝-11 in	10,200	**1AUE8**
		0.045 in	⅞ in	10,200	**1AUD3**
		0.25 in	⅞ in	10,200	**35KH21**
	7 in	0.09 in	⅝-11 in	8,500	**1AUE9**
		0.25 in	⅝-11 in	8,500	**1AUK7**
		0.125 in	⅝-11 in	8,500	**1AUL1**
		0.045 in	⅞ in	8,500	**1AUD4**
		0.25 in	⅞ in	8,500	**2KMJ4**
	9 in	0.25 in	⅝-11 in	6,600	**1AUK8**
		0.125 in	⅝-11 in	6,600	**1AUL2**
		0.25 in	⅞ in	6,600	**2KMJ5**

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
DeWalt					
For Ferrous Metal, Pipeline					
Z24R	4 in	0.125 in	⅜ in	15,200	**5TU47**
	4½ in	0.125 in	⅝-11 in	13,300	**5TU65**
		0.125 in	⅞ in	13,300	**5TU62**
	5 in	0.125 in	⅝-11 in	12,200	**5TU83**
	6 in	0.125 in	⅝-11 in	10,100	**5TY11**
	7 in	0.125 in	⅝-11 in	8,700	**5TY30**
For Ferrous Metal, Stainless					
Z24R	4 in	0.0938 in	⅝ in	15,200	**5TU44**
	4½ in	0.25 in	⅝-11 in	13,300	**5TU71**
		0.25 in	⅞ in	13,300	**5TU68**
	5 in	0.25 in	⅝-11 in	12,200	**5TU89**
		0.25 in	⅞ in	12,200	**5TU86**
	6 in	0.25 in	⅝-11 in	10,100	**5TY17**
		0.0938 in	⅞ in	10,100	**5TU92**
	7 in	0.25 in	⅝-11 in	8,700	**5TY36**
		0.0938 in	⅞ in	8,700	**5TY20**
	9 in	0.25 in	⅝-11 in	6,600	**5TY54**
Z60T	4 in	0.045 in	⅝ in	15,200	**6TND0**
	4½ in	0.045 in	⅝-11 in	13,300	**6TMR4**
		0.045 in	⅞ in	13,300	**6TND1**
	5 in	0.045 in	⅝-11 in	12,200	**6TND2**
	6 in	0.045 in	⅞ in	10,100	**6TND3**
	7 in	0.045 in	⅞ in	10,100	**6TND4**

Find more information on Wheel Materials and Specifications on page 2383.

Guide to Arbor Bushings and Grit Sizes

Grit	Aluminum Oxide	White Aluminum Oxide	Silicon Carbide
Very Coarse	24 Grit	—	—
Coarse	36/46 Grit	—	—
Medium	60/80 Grit	60 Grit	60 Grit
Fine	100/120 Grit	100 Grit	80 Grit
Extra Fine	—	150 Grit	120 Grit

Wheel Dia. (in.)	Wheel Center Hole (in.)	1/2"	5/8"	3/4"	7/8"	1"	1¼"
Arbor Bushings For Bench & Pedestal Wheels*							
5	1	●	●	●	●		
6	1	●	●	●	●		
7	1	●	●	●	●		
8	1		●	●	●		
10	1¼			●	●	●	
12	1¼					●	●

** These sizes of bushings shipped free of charge with Norton wheels.*

Silicon Carbide
4B136

NORTON SAINT-GOBAIN

Bench and Pedestal Grinding Wheels

Dia.	Thickness	Arbor Hole Size	Grit	Max. RPM	Item No.
Aluminum Oxide					
5"	½"	1 in	60	4,965	**6A083**
6"	½"	1 in	36	4,140	**4B128**
	½"	1 in	60	4,140	**4B127**
	½"	1 in	100	4,140	**4B129**
	¾"	1 in	36	4,140	**6A084**
	¾"	1 in	60	4,140	**6A085**
	¾"	1 in	100	4,140	**6A086**
	1"	1 in	36	4,140	**5A881**
	1"	1 in	60	4,140	**5A882**
	1"	1 in	100	4,140	**5A883**
7"	1"	1 in	36	3,600	**6A087**
	1"	1 in	60	3,600	**6A088**
	1"	1 in	100	3,600	**6A089**
8"	¾"	1 in	100	3,600	**4DDN5**
	1"	1 in	24	3,600	**4B138**
	1"	1 in	36	3,600	**6A090**
	1"	1 in	60	3,600	**6A091**
	1"	1 in	100	3,600	**6A092**
10"	1"	1 ¼ in	24	2,485	**4B141**
	1"	1 ¼ in	36	2,485	**6A093**
	1"	1 ¼ in	60	2,485	**6A094**
	1"	1 ¼ in	100	2,485	**4B140**
	1¼"	1 ¼ in	36	2,485	**4DDN7**
	1¼"	1 ¼ in	60	2,485	**4DDN6**
12"	1½"	1 ½ in	60	2,070	**4DDN8**
	2"	1 ½ in	36	2,070	**5A884**
	2"	1 ½ in	60	2,070	**5A885**
White Aluminum Oxide					
6"	¾"	1 in	60	4,140	**3PY74**
	¾"	1 in	100	4,140	**3PY75**
	¾"	1 in	150	4,140	**3PY76**
	1"	1 in	60	4,140	**3PY77**
	1"	1 in	100	4,140	**3PY78**
	1"	1 in	150	4,140	**3PY79**
8"	1"	1 in	60	3,600	**3PY80**
	1"	1 in	100	3,600	**3PY81**
	1"	1 in	150	3,600	**3PY82**
Silicon Carbide					
6"	½"	1 in	60	4,140	**4B130**
	½"	1 in	80	4,140	**4B131**
	½"	1 in	120	4,140	**4B132**
	¾"	1 in	60	4,140	**5A886**
	¾"	1 in	80	4,140	**5A887**
	¾"	1 in	120	4,140	**4B134**
	1"	1 in	60	4,140	**4B133**
	1"	1 in	80	4,140	**4B135**
	1"	1 in	120	4,140	**4B136**
7"	1"	1 in	60	3,600	**5A890**
	1"	1 in	80	3,600	**5A891**
	1"	1 in	120	3,600	**4B137**
8"	1"	1 in	60	3,600	**5A892**
	1"	1 in	80	3,150	**5A893**
	1"	1 in	120	3,150	**4B139**
10"	1"	1 ¼ in	60	2,485	**5A894**
	1"	1 ¼ in	80	2,485	**5A895**
12"	2"	1 ¼ in	80	2,070	**4DDN9**

Quantum 3
45VH22

Cubitron II
30CN57

493Z89

Saitech Ultimate Performance
4AYF3

NORTON SAINT-GOBAIN 3M DEWALT UNITED ABRASIVES, INC. SAIT

Type 27 High Performance Grinding and Cutting Wheels

- Ceramic and ceramic blend abrasives

Series	Dia.	Thickness	Arbor Hole Size	Max. RPM	Item No.
Norton					
For All Purpose Grinding					
Quantum 3	4 in	0.25 in	⅜ in	15,280	**45VH22**
		0.25 in	⅝ in	15,280	**45VH23**
	4½ in	0.25 in	⅝-11 in	13,580	**45VH24**
		0.25 in	⅞ in	13,580	**45VH25**
	5 in	0.25 in	⅝-11 in	12,225	**45VH26**
		0.25 in	⅞ in	12,225	**45VH27**
	6 in	0.25 in	⅝-11 in	10,185	**45VH28**
		0.25 in	⅞ in	10,185	**45VH29**
	7 in	0.25 in	⅝-11 in	8,600	**45VH30**
		0.25 in	⅞ in	8,600	**45VH32**
	9 in	0.25 in	⅝-11 in	6,600	**45VH33**
		0.25 in	⅞ in	6,600	**45VH36**
For Ferrous Metal, Gray Iron, Pipeline, Stainless					
NorZon Plus	7 in	0.125 in	⅝-11 in	8,600	**25TZ95**
	9 in	0.125 in	⅝-11 in	6,600	**25UA04**
For Ferrous Metal, Gray Iron, Stainless					
BlueFire Right Cut	4½ in	0.045 in	⅞ in	13,580	**33N319**
NorZon Plus	3 in	0.125 in	⅜ in	18,000	**3UW96**
		0.25 in	⅜ in	18,000	**3UW97**
	4 in	0.125 in	⅜ in	15,280	**3UW98**
		0.125 in	⅝ in	15,280	**3UW99**
	4½ in	0.125 in	⅝-11 in	13,580	**3UX05**
		0.25 in	⅝-11 in	13,580	**4DB53**
		0.125 in	⅞ in	13,580	**3UX04**
		0.25 in	⅞ in	13,580	**4DB54**
	5 in	0.125 in	⅝-11 in	12,225	**1PYC2**
		0.25 in	⅝-11 in	12,225	**4DB55**
		0.125 in	⅞ in	12,225	**3UX08**
		0.25 in	⅞ in	12,225	**4DB56**
	6 in	0.125 in	⅝-11 in	10,185	**25TZ54**
		0.25 in	⅞ in	10,185	**1PYD1**
	7 in	0.125 in	⅝-11 in	8,600	**3UX15**
		0.25 in	⅝-11 in	8,600	**4DB57**
		0.125 in	⅞ in	8,600	**3UX14**
		0.25 in	⅞ in	8,600	**4DB58**
	9 in	0.125 in	⅝-11 in	6,600	**3UX22**
		0.25 in	⅝-11 in	6,600	**4DB59**
		0.125 in	⅞ in	6,600	**3UX21**
		0.25 in	⅞ in	6,600	**4DB60**
NorZon Plus RightCut	4½ in	0.125 in	⅝-11 in	13,580	**6PG98**
		0.125 in	⅞ in	13,580	**3WM18**
For Foundry Grinding					
NorZon Plus Foundry	9 in	0.25 in	⅝-11 in	6,600	**25UA02**
Quantum 3 Foundry		0.25 in	⅝-11 in	6,600	**45VH34**
		0.25 in	⅞ in	6,600	**45VH37**
3M					
64320-Q	4½ in	0.25 in	⅝-11 in	13,300	**448D51**
Silver	4 in	0.25 in	⅜ in	15,300	**450Y13**
		0.25 in	⅝ in	15,300	**450Y12**
	4½ in	0.25 in	⅝-11 in	13,300	**450Y11**
		0.25 in	⅝-11 in	13,300	**450Y37**
		0.045 in	⅞ in	13,300	**450Y24**
		0.25 in	⅞ in	13,300	**450Y14**
	5 in	0.25 in	⅝-11 in	12,250	**450Y27**
		0.25 in	⅞ in	12,250	**450Y15**
	6 in	0.25 in	⅝-11 in	10,200	**450Y28**
		0.045 in	⅞ in	10,200	**450Y35**
		0.25 in	⅞ in	10,200	**450Y31**
	7 in	0.25 in	⅝-11 in	8,500	**450Y29**
		0.25 in	⅞ in	8,500	**450Y32**
	9 in	0.25 in	⅝-11 in	6,650	**450Y30**
		0.25 in	⅞ in	6,650	**450Y33**
For Aluminum, Ferrous Metal, Stainless					
CubitronII	4 in	0.25 in	⅝ in	15,300	**22PA27**
	4½ in	0.045 in	⅝-11 in	13,300	**22PA34**
		0.125 in	⅝-11 in	13,300	**30CN56**
		0.045 in	⅞ in	13,300	**22PA31**
		0.125 in	⅞ in	13,300	**30CN67**
	5 in	0.25 in	⅝-11 in	12,250	**22PA22**
		0.125 in	⅝-11 in	12,250	**30CN57**
		0.09 in	⅞ in	12,250	**22PA37**
		0.125 in	⅞ in	12,250	**30CN66**
	6 in	0.045 in	⅞ in	10,200	**22PA41**
	7 in	0.09 in	⅝-11 in	8,500	**22PA42**
		0.125 in	⅝-11 in	8,500	**30CN59**
		0.09 in	⅞ in	8,500	**22PA43**
		0.125 in	⅞ in	8,500	**30CN60**
	9 in	0.125 in	⅝-11 in	6,650	**30CN61**
		0.125 in	⅞ in	6,650	**30CN62**
Green Corps	4½ in	0.125 in	⅝-11 in	13,300	**1DXN8**
	7 in	0.125 in	⅝-11 in	8,500	**1DXP4**
For Ferrous Metal					
Green Corps	4½ in	0.25 in	⅝-11 in	13,300	**1DXN7**
	7 in	0.25 in	⅝-11 in	8,500	**1DXP3**
DeWalt					
For Aluminum, Ferrous Metal, Gray Iron, Stainless					
XP Ceramic	4½ in	0.25 in	⅝"-11	13,300	**493Z89**
		0.093 in	⅝"-11	13,300	**493Z99**
		0.25 in	⅞ in	13,300	**493Z88**
		0.093 in	⅞ in	13,300	**493Z98**
	5 in	0.093 in	⅝"-11	12,200	**494A02**
		0.25 in	⅞ in	12,200	**493Z90**
		0.093 in	⅞ in	12,200	**494A01**
	7 in	0.25 in	⅝"-11	8,700	**493Z95**
		0.25 in	⅞ in	8,700	**493Z94**
	9 in	0.25 in	⅝"-11	6,600	**493Z97**
Sait					
For Ferrous Metal, Stainless					
Saitech Ultimate Performance	4½ in	0.25 in	⅝-11 in	13,300	**1AUH5**
		0.25 in	⅝-11 in	13,300	**4AYF3**
		0.25 in	⅞ in	13,300	**2KMH8**
	7 in	0.25 in	⅝-11 in	8,500	**1AUF5**
	9 in	0.25 in	⅝-11 in	6,600	**1AUF9**
		0.25 in	⅞ in	6,600	**2KMJ1**
Saitech	4 in	0.045 in	⅝ in	19,000	**1AUB8**
	4½ in	0.045 in	⅝-11 in	13,300	**31NJ35**
		0.0938 in	⅝-11 in	13,300	**35KH16**
		0.045 in	⅞ in	13,300	**1AUC1**
	5 in	0.045 in	⅝-11 in	12,200	**31NJ38**
		0.045 in	⅞ in	12,200	**1AUC2**
	6 in	0.045 in	⅞ in	10,200	**1AUC3**
	7 in	0.045 in	⅞ in	8,500	**1AUC4**

XL-WL Deburring Wheel

Multi-Finishing Wheel

Cut-and-Polish Wheel

3M Scotch-Brite™

MERIT abrasives

Deburring/Finishing Wheels

XL-WL Deburring Wheels—Long-lasting Scotch-Brite™ wheels clean and deburr metal surfaces and threads while eliminating the danger of loose, flying wires. Wheels polish and finish metals or composites. Fit standard motor shaft sizes (½" to 1").

Multi-Finishing Wheels—Produce uniform grain finishes on stainless steel and other metals.

Cut-and-Polish Wheel—Heavy-duty wheel for aggressive blending and finishing. Accessories (available separately) allow fit to standard motor shaft sizes (½" to 1").

Deburring and Finishing Wheels—Non-woven spindle-mounted disc wheels are excellent for deburring, blending, and finishing. Conformable construction leaves a smooth, polished finish, even on oddly shaped pieces and surfaces. ¼" steel mandrel.

Dia.	W	Arbor Hole	Density	Abrasive Material	Grade	Max. RPM	Brand	Item No.
XL-WL Deburring Wheels								
6 in	½ in	1 in	Hard (8)	Aluminum Oxide	Medium	6,000	Scotch-Brite	**4ZR80**
	½ in	1 in	Hard (8)	Silicon Carbide	Fine	6,000	Scotch-Brite	**4ZR64**
	½ in	1 in	Hard (9)	Silicon Carbide	Fine	6,000	Scotch-Brite	**4ZR46**
	1 in	1 in	Hard (8)	Aluminum Oxide	Medium	6,000	Scotch-Brite	**4ZR81**
	1 in	1 in	Hard (8)	Silicon Carbide	Fine	6,000	Scotch-Brite	**4ZR65**
	1 in	1 in	Hard (9)	Silicon Carbide	Fine	6,000	Scotch-Brite	**4ZR26**
8 in	⅜ in	3 in	Hard (8)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZT03**
	½ in	3 in	Hard (8)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR99**
	½ in	3 in	Hard (9)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR47**
	1 in	3 in	Hard (8)	Aluminum Oxide	Medium	4,500	Scotch-Brite	**4ZR82**
	1 in	3 in	Hard (8)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR66**
	1 in	3 in	Hard (9)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR27**
	2 in	3 in	Hard (8)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR67**
	2 in	3 in	Hard (9)	Silicon Carbide	Fine	4,500	Scotch-Brite	**4ZR28**
Multi-Finishing Wheels								
6 in	1 in	1 in	Soft (2)	Silicon Carbide	Coarse	6,000	Scotch-Brite	**4ZR70**
	2 in	1 in	Soft (2)	Silicon Carbide	Coarse	6,000	Scotch-Brite	**4ZR71**
	2 in	1 in	Soft (2)	Silicon Carbide	Medium	6,000	Scotch-Brite	**4ZR72**
8 in	2 in	3 in	Soft (2)	Silicon Carbide	Medium	4,500	Scotch-Brite	**4ZR73**
Cut-and-Polish Wheel								
6 in	1 in	1 in	Medium (5)	Aluminum Oxide	Fine	6,000	Scotch-Brite	**4ZP96**
Deburring and Finishing Wheel								
2 in	1 in	—	Soft (2)	Aluminum Oxide	Medium	12,000	Merit	**464P89**
3 in	½ in	—	Soft (4)	Aluminum Oxide	Medium	8,000	Merit	**464P88**
4 in	½ in	—	Soft (4)	Aluminum Oxide	Medium	6,000	Merit	**464P90**
5 in	½ in	—	Soft (5)	Aluminum Oxide	Medium	4,000	Merit	**464P91**

40AL47

40AL57

3M Scotch-Brite™

Unitized Wheels

- ¼" arbor hole mounting
- Medium grade
- Precision-shaped ceramic grain abrasive

Ceramic grain wheels can be used for deburring and finishing in both OEM and maintenance applications. The long-wearing grain extends wheel life and produces minimal dust and debris, to reduce wear and wheel loading, and help improve efficiency.

Dia.	W	Max. RPM	Mfr. Model	Item No.
Scotch-Brite™ Deburring and Finishing Wheels				
2 in	⅛ in	22,100	DP-UW	**40AL47**
	¼ in	22,100	DP-UW	**40AL48**
	½ in	22,100	DP-UW	**40AL49**
	¾ in	22,100	61500300704	**40AL50**
	1 in	22,100	DP-UW	**40AL51**
3 in	⅛ in	18,100	DP-UW	**40AL52**
	¼ in	18,100	DP-UW	**40AL53**
	½ in	15,100	DP-UW	**40AL54**
	¾ in	15,100	DP-UW	**40AL55**
	1 in	15,100	DP-UW	**40AL56**
Mandrel				
⅛ in - ½ in, ¼ in Shank		18,100	60440242273	**40AL57**

4ZR83

3M Scotch-Brite™

Unitized Deburring Wheels

Scotch-Brite™ EXL wheels deburr and polish titanium, special alloys, composites, and plastics, creating a fine finish. Cool running, clean, and no flying wires. 1" to 3" wheels are used on a straight shaft tool.

Dia.	W	Mounting Size	Density	Abrasive Material	Grade	Max. RPM	Mfr. Model	Item No.
XL-UR Series, Edge Deburring and Finishing Wheels								
2 in	15/64 in	TR	Soft (2)	Silicon Carbide	Fine	22,100	61500099215	**4YJY7**
	15/64 in	TR	Soft (2)	Aluminum Oxide	Medium	22,100	61500099231	**4YJY9**
3 in	15/64 in	TR	Soft (2)	Silicon Carbide	Fine	15,100	61500099223	**4YJY8**
	15/64 in	TR	Soft (2)	Aluminum Oxide	Medium	15,100	61500099249	**4YJZ1**
XL-UW Series, Deburring and Finishing Wheels								
1 in	1 in	3/16 in	Soft (2)	Silicon Carbide	Fine	30,100	61500057411	**4ZR83**
	1 in	3/16 in	Hard (8)	Aluminum Oxide	Medium	35,100	61500057841	**6RV47**
	1 in	3/16 in	Hard (8)	Aluminum Oxide	Coarse	35,100	61500057833	**4ZR89**
2 in	¼ in	¼ in	Soft (2)	Silicon Carbide	Fine	16,100	61500060266	**6RV62**
3 in	¼ in	¼ in	Soft (2)	Silicon Carbide	Fine	12,100	61500057445	**4ZR84**
	¼ in	¼ in	Soft (2)	Aluminum Oxide	Medium	12,100	61500079589	**4ZT07**
	¼ in	⅜ in	Soft (2)	Silicon Carbide	Fine	12,100	61500070372	**4ZT01**
	¼ in	⅜ in	Soft (2)	Aluminum Oxide	Medium	12,100	61500085404	**6RW57**
	¼ in	⅜ in	Medium (6)	Aluminum Oxide	Medium	18,100	61500074804	**6RW21**
	¼ in	⅜ in	Hard (8)	Aluminum Oxide	Medium	18,100	61500070406	**6RW05**
	½ in	¼ in	Soft (2)	Silicon Carbide	Fine	10,000	61500057452	**4ZR85**
6 in	¼ in	½ in	Soft (2)	Silicon Carbide	Fine	5,000	61500057726	**4ZR88**
	½ in	½ in	Soft (2)	Silicon Carbide	Fine	5,000	61500122512	**4ZR87**
Mandrel for Scotch-Brite™ Wheels								
For Use with 1 x 1 x 3/16" Wheels							936	**4ZR07**

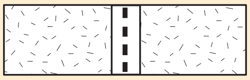
Toolroom Grinding, Truing & Dressing

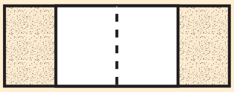
Don't see what you need online? Call **1-800-GRAINGER (472-4643)** for sourcing.

Vitrified Toolroom Wheels And Segments—Made from precision-engineered ceramic alumina, aluminum oxide, and silicon carbide materials, Norton toolroom wheels can be used in most ferrous and nonferrous MRO, small-job shop, and production operations. An excellent choice for surface grinding, tool and cutter grinding, and resharpening applications.

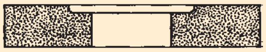
To see our full selection, go to **grainger.com/precisiongrinding**.

Type	Grainger.com Category
Type 1 Straight	Straight Grinding Wheels-Type 1
Type 2 Cylinder and Type 35 Plate Mounted	Cylinder and Plate Mounted Grinding Wheels
Type 5 and 7 Recessed	Recessed Grinding Wheels
Type 6 Straight Cup	Straight Cup Grinding Wheels
Type 11 Flaring Cup	Flaring Cup Grinding Wheels
Type 12 Dish	Dish Grinding Wheels-Type 12
Grinding Segments	Surface Grinding Segments


Type 1 Straight Wheel

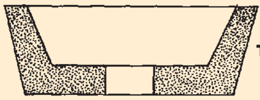

Type 2

Type 35

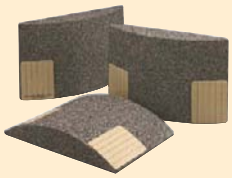

Type 5

Type 7

Type 6


Type 11

Type 12


Grinding Segments

Wheel Dressing—Dressing Sticks and Truing and Dressing Tools are designed to clean, shape, and open the face of tool room grinding tools, to help them run true.

To see our full selection, go to **grainger.com/wheeldressing**.

Grainger.com Category	Application
Dressing Sticks	Designed for offhand dressing (cleaning, shaping, or opening) the face of toolroom grinding wheels.
Diamond Truing and Dressing Tools	Designed to true (make a wheel round and run true) and dress (clean, shape, or open the wheel face) of toolroom grinding wheels.

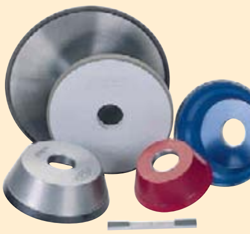
Dressing Sticks

Truing Tool

Dressing Tool

Diamond and CBN Toolroom Grinding Wheels—Engineered to tackle your most-challenging applications, from grinding hardened steels and superalloys, to finishing materials such as glass, ceramics, and tough composites. They meet the stringent requirements of CNC cutting tool manufacturing and resharpening applications, including fluting, end fluting, gashing, and OD relief. Choose from a wide variety of forms, sizes, grades, and materials to fit your machines and meet your specific job requirements.

To see our full selection, go to **grainger.com/diamondcbngrinding**.



Rough Portable Wheels, Cones, and Plugs

Designed for consistent, quality grinding performance in foundries, welding shops, fabrication facilities, steel mills, and shipyards. Typical uses include smoothing weld seams, cleaning castings, and preparing surfaces for plating or painting. Straight wheels, cones, and plugs are designed for use on horizontal/straight shaft grinders. Flaring cup wheels are designed for use on right angle portable cup grinders.

WHEEL SPECIFICATION	
ABRASIVE	**APPLICATION**
57A - Aluminum oxide	Good performance on steel, steel alloys, and iron
57AC - Aluminum oxide/Silicon carbide blend	Good performance on dirty, scale-covered steel parts
AZ - Zirconia alumina/Aluminum oxide blend	Better performance on steel, steel alloys, and iron
NZ - Zirconia alumina	Best performance on steel, steel alloys, and iron
37C - Silicon carbide	For masonry and nonsteel
BLUEFIRE - Ceramic/Zirconia	For steel, iron, and graphite foundry snagging jobs

Abrasive Wheel Diameter	Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Straight Grinding Wheels							
Type 1							
2 ½ in	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-R	21,700	**5GC51**
3 in	⅜ in	⅜ in	Aluminum Oxide	Gemini	57A24-R	18,080	**2D929**
	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-R5B7	12,100	**3UP17**
	½ in	⅜ in	Aluminum Oxide	Gemini	57A24-P	18,080	**3UP16**
4 in	¼ in	⅜ in	Zirconia Alumina	BlueFire	Bluefire	15,280	**26ZX12**
6 in	1 in	⅝ in	Aluminum Oxide	Gemini	57A16-QS	8,000	**3UP18**
	1 in	⅝ in	Zirconia Alumina	Bluefire	4NZ14-RBSX406	8,000	**22UT41**
8 in	1 in	⅝ in	Zirconia Alumina	Bluefire	4NZ14-QBSX406	6,000	**22UT42**
	1 in	⅝ in	Zirconia Alumina	Bluefire	NZC16-QBSX406	6,000	**22UT43**

Abrasive Wheel Diameter	Back Dia.	Thickness	Rim Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Flaring Cup Grinding Wheels									
Type 11									
4 in	3"	2 in	¾"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	9,070	**2D922**
	3"	2 in	¾"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	9,070	**15K069**
	3"	2 in	¾"	⅝"-11	Zirconia Alumina	—	4NZ16-QBX406	9,070	**22UT39**
5 in	3¾"	2 in	1"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	7,260	**6A079**
	3¾"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	7,260	**15K070**
	3 13/16"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	7,260	**15K071**
6 in	4¾"	2 in	1"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000	**15K106**
	4¾"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000	**6A081**
	4¾"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57AC16-Q	6,000	**2D932**
	4¾"	2 in	1½"	⅝"-11	Silicon Carbide	Gemini	37C16-P	6,000	**5A879**
	4¾"	2 in	1½"	⅝"-11	Zirconia Alumina	Bluefire	NZC16-QBX406	6,000	**15K072**
	4¾"	2 in	½"	⅝"-11	Zirconia Alumina	—	4NZ16-QBX406	6,000	**22UT40**
	4¾"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ14-R	6,000	**26ZW99**
	4 13/16"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57A16-Q	6,000	**15K102**
	4 13/16"	2 in	1½"	⅝"-11	Aluminum Oxide	Gemini	57AC16-Q	6,000	**15K103**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	Bluefire	NZC16-QBX406	6,000	**15K074**
	4 13/16"	2 in	1"	⅝"-11	Zirconia Alumina	Bluefire	4NZ16-QBX406	6,000	**15K073**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ14-R	6,000	**26ZX03**
	4 13/16"	2 in	1½"	⅝"-11	Zirconia Alumina	BlueFire	4NZ16-QBX406	6,000	**26ZX13**

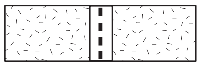
Grinding Cone Diameter	Thickness	Arbor Hole Size	Abrasive Material	Trade Name	Specification	Max. RPM	Item No.
Grinding Cones							
Type 16							
1 in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	36,290	**2D920**
1½ in	2½"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190	**1PYL1**
	3"	⅜"-24	Zirconia Alumina	BlueFire	AZ24-R	24,190	**26ZX04**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190	**26ZX05**
	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190	**2D917**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	24,190	**15K108**
1¾ in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	20,740	**2D919**
	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	20,735	**15K107**
2 in	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145	**26ZX06**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	18,145	**15K109**
2¾ in	2½"	⅝"-11	Zirconia Alumina	BlueFire	AZ16-R	13,195	**26ZX07**
	3½"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	13,195	**1PYA3**
Type 17 (Square Tip)							
1½ in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190	**2D921**
2 in	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145	**1PYL8**
Type 17R (Round Tip)							
2 in	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145	**26ZX14**
Grinding Plugs							
Type 18 (Square Tip)							
1½ in	2½"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190	**26ZX01**
	2½"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190	**15K110**
	2½"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190	**3UP14**
	2½"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	24,190	**1PYL9**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	24,190	**26ZX08**
	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	24,190	**2D918**
2 in	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145	**26ZX09**
	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ24-R	18,145	**26ZX10**
	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145	**1PYN4**
	3"	⅝"-11	Zirconia Alumina	NZ Plus	NZ20-R	18,145	**1PYN5**
Type 18R (Round Tip)							
1½ in	3"	⅜"-24	Aluminum Oxide	Gemini	57A24-R	24,190	**1PYN8**
2 in	3"	⅝"-11	Zirconia Alumina	BlueFire	AZ20-R	18,145	**26ZX02**
	3"	⅝"-11	Aluminum Oxide	Gemini	57A24-R	18,145	**2D916**

3UP16

6A079

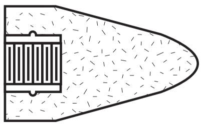
2D921

2D916

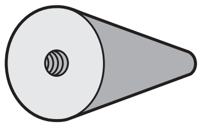


Type 1
Straight Wheel

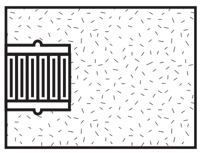
Type 11
Flaring Cup



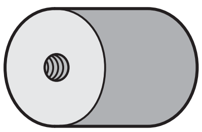
Type 16
Cones



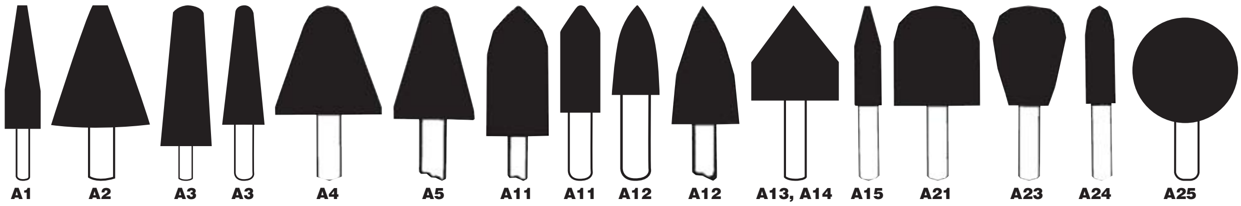
Type 17
Cones

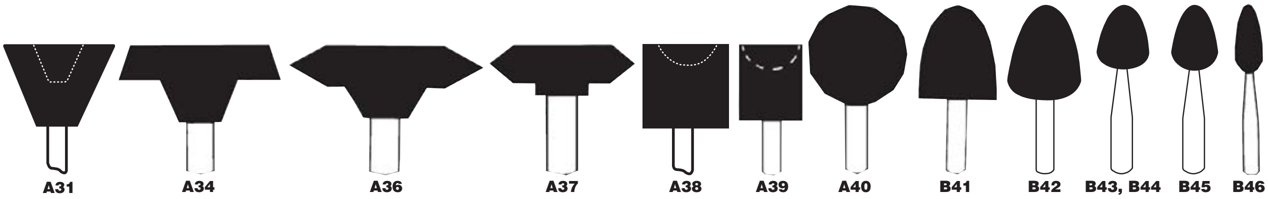


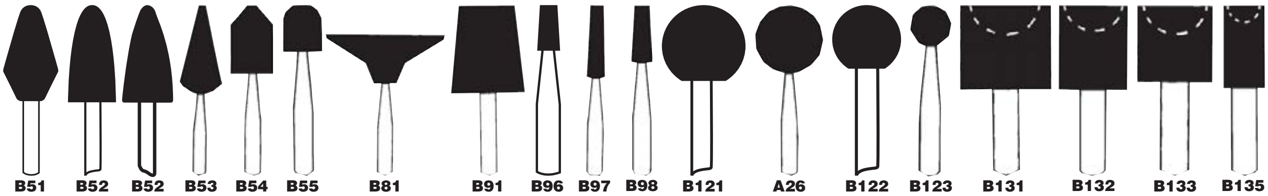
Type 18
Plugs



Type 18R
Plugs







Mounted Points

NORTON SAINT-GOBAIN

- Use on die or in-line/straight shaft grinders
- Max. RPM based on ½" overhang

Quantum® Vitrified—Best for high-volume operation. Ceramic alumina abrasive.

Gemini® Vitrified—Aluminum oxide abrasive 38A in a vitrified bond.

Cotton Fiber—Ideal for blending and finishing parts without changing part geometry. Aluminum oxide abrasive.

Charger® Resin—Made of self-sharpening zirconia alumina abrasive.

No. of Pieces	Spindle Dia.	Includes	Brand	Item No.
Vitrified Mounted Point Kits				
50	⅛ in	(5) B42, B52, B97, B131, B122, W154, W164, W185, W215, and W163	Norton	**2LRJ9**
	¼ in	(5) A1, A5, A11, A23, A21, A26, A36, A39, W242, and W220	Norton	**2LRJ8**
	¼ in	(5) B42, B52, B97, B122, B131, W154, W164, W185, W215, W163 A80-HBF3	Norton	**4DDV6**

Shape	Dia.	Thickness	Spindle Dia.	Max. RPM	Grit	Item No.
Quantum® Vitrified Mounted Points						
Norton						
A1	¾ in	2½ in	¼ in	20	80	**15K091**
A11	⅞ in	2 in	¼ in	20	80	**15K092**
A12	11⁄16 in	1¼ in	¼ in	48	60	**15K075**
A21	1 in	1 in	¼ in	35	80	**15K094**
A23	¾ in	1 in	¼ in	39	80	**15K093**
A25	1 in	—	¼ in	36	80	**15K076**
A26	⅝ in	—	¼ in	61	80	**15K095**
A36	1 ⅝ in	⅜ in	¼ in	24	80	**15K096**
A38	1 in	1 in	¼ in	35	80	**15K077**
A39	¾ in	¾ in	¼ in	47	80	**15K097**
B42	½ in	¾ in	⅛ in	34	80	**15K082**
B52	⅜ in	¾ in	⅛ in	45	80	**15K083**
B97	⅛ in	⅜ in	⅛ in	105	80	**15K084**
B122	⅜ in	—	⅛ in	62	80	**15K086**
B131	½ in	½ in	⅛ in	35	80	**15K085**
W154	3⁄16 in	½ in	⅛ in	71	80	**15K087**
W164	¼ in	¾ in	⅛ in	46	80	**15K088**
W185	½ in	½ in	⅛ in	35	80	**15K089**
W189	½ in	2 in	¼ in	24	80	**15K078**
W208	¾ in	2 in	¼ in	23	80	**15K079**
W215	1 in	⅛ in	⅛ in	38	80	**15K090**
W220	1 in	1 in	¼ in	26	80	**15K080**
W236	1 ½ in	½ in	¼ in	25	80	**15K081**
Gemini® Vitrified Mounted Points						
Norton						
A1	¾ in	2½ in	¼ in	20	36	**4F758**
A1	¾ in	2½ in	¼ in	20	60	**4F759**
A3	1 in	2¾ in	¼ in	16	36	**4F760**
A3	1 in	2¾ in	¼ in	16	60	**4F761**
A4	1 ¼ in	1¼ in	¼ in	31	60	**2D821**
A5	¾ in	1⅛ in	¼ in	45	60	**2D822**
A5	¾ in	1⅛ in	¼ in	45	36	**4F762**
A11	⅞ in	2 in	¼ in	20	60	**2D823**
A11	⅞ in	2 in	¼ in	20	36	**4F763**
A12	11⁄16 in	1¼ in	¼ in	48	36	**4F764**
A12	11⁄16 in	1¼ in	¼ in	48	60	**4F765**
A13	1 ⅛ in	1¼ in	¼ in	34	60	**4F766**
A14	11⁄16 in	⅞ in	¼ in	56	60	**4F767**
A15	¼ in	1 1⁄16 in	¼ in	73	60	**2D824**
A21	1 in	1 in	¼ in	35	60	**2D825**
A23	¾ in	1 in	¼ in	39	60	**2D826**
A24	¼ in	¾ in	¼ in	77	60	**2D827**
A25	1 in	Ball	¼ in	36	60	**4F769**
A26	⅝ in	Ball	¼ in	61	60	**2D828**
A31	1 ⅜ in	1 in	¼ in	28	60	**4F771**
A34	1 ½ in	⅜ in	¼ in	25	60	**2D830**
A36	1 ⅝ in	⅜ in	¼ in	24	60	**2D831**
A37	1 ¼ in	¼ in	¼ in	31	60	**2D832**
A38	1 in	1 in	¼ in	35	60	**4F773**
A39	¾ in	¾ in	¼ in	47	60	**2D833**
B41	⅝ in	⅝ in	⅛ in	34	60	**2D835**
B42	½ in	¾ in	⅛ in	34	60	**2D836**
B43	¼ in	5⁄16 in	⅛ in	81	60	**2D837**
B44	7⁄32 in	⅜ in	⅛ in	68	60	**2D838**
B45	3⁄16 in	5⁄16 in	⅛ in	104	60	**2D839**
B46	⅛ in	5⁄16 in	⅛ in	105	60	**2D840**
B51	7⁄16 in	¾ in	⅛ in	45	60	**15K114**
B52	⅜ in	¾ in	⅛ in	45	60	**2LRK2**
B52	⅜ in	¾ in	¼ in	45	60	**4F774**
B52	⅜ in	¾ in	⅛ in	45	90	**15K115**
B53	5⁄16 in	⅝ in	⅛ in	60	60	**2D841**
B54	¼ in	½ in	⅛ in	60	60	**2D842**
B55	⅛ in	¼ in	⅛ in	105	60	**2D843**
B81	¾ in	3⁄16 in	⅛ in	51	60	**2D846**
B91	½ in	⅝ in	⅛ in	35	60	**2D848**
B96	⅛ in	¼ in	⅛ in	105	60	**2D852**
B96	⅛ in	¼ in	⅛ in	105	90	**15K116**
B97	⅛ in	⅜ in	⅛ in	105	60	**2D850**
B98	3⁄32 in	¼ in	⅛ in	105	60	**2D853**
B121	½ in	Ball	⅛ in	45	60	**15K117**
B122	⅜ in	Ball	⅛ in	62	60	**2D856**
B122	⅜ in	Ball	⅛ in	62	90	**15K118**
B123	3⁄16 in	Ball	⅛ in	104	60	**2D857**
B124	⅛ in	Ball	⅛ in	105	90	**15K119**
B131	½ in	½ in	⅛ in	35	60	**2D859**
B132	⅜ in	½ in	⅛ in	45	60	**2D860**
B133	⅜ in	⅜ in	⅛ in	54	60	**2D861**
B134	5⁄16 in	⅜ in	⅛ in	62	60	**4F779**
B135	¼ in	½ in	⅛ in	60	60	**2D862**
W144	⅛ in	¼ in	⅛ in	105	60	**2D865**
W145	⅛ in	⅜ in	⅛ in	105	60	**2D866**
W146	⅛ in	½ in	⅛ in	105	60	**2D867**
W152	3⁄16 in	¼ in	⅛ in	105	60	**2D868**
W153	3⁄16 in	⅜ in	⅛ in	81	60	**2D869**
W154	3⁄16 in	½ in	⅛ in	71	60	**2D870**
W160	¼ in	¼ in	⅛ in	81	60	**4F780**
W162	¼ in	⅜ in	⅛ in	68	60	**2D871**
W163	¼ in	½ in	⅛ in	60	60	**2D872**
W164	¼ in	¾ in	⅛ in	46	60	**2D873**
W170	5⁄16 in	½ in	⅛ in	53	60	**2D875**
W175	⅜ in	⅜ in	⅛ in	54	60	**2D876**
W176	⅜ in	½ in	⅛ in	45	60	**4F781**
W177	⅜ in	¾ in	⅛ in	34	60	**2D877**
W178	⅜ in	1 in	⅛ in	26	60	**2D878**
W185	½ in	½ in	⅛ in	35	60	**2LRK3**
W185	½ in	½ in	¼ in	35	60	**4F782**
W186	½ in	¾ in	¼ in	51	60	**2D880**
W188	½ in	1½ in	¼ in	30	60	**2D882**
W189	½ in	2 in	¼ in	24	60	**2D883**
W196	⅝ in	1 in	¼ in	35	60	**2D885**
W200	¾ in	⅛ in	⅛ in	51	60	**2D887**
W200	¾ in	⅛ in	⅛ in	51	90	**15K120**
W204	¾ in	¾ in	¼ in	43	60	**2D888**
W205	¾ in	1 in	¼ in	35	60	**2D889**
W208	¾ in	2 in	¼ in	23	60	**2D892**
W215	1 in	⅛ in	⅛ in	38	60	**2D893**
W216	1 in	¼ in	¼ in	38	60	**15K121**
W218	1 in	½ in	¼ in	38	60	**2D896**
W220	1 in	1 in	¼ in	26	60	**4F785**
W221	1 in	1½ in	¼ in	19	60	**2D897**
W222	1 in	2 in	¼ in	16	60	**2D898**
W230	1 ¼ in	1¼ in	¼ in	20	60	**2D902**
W235	1 ½ in	¼ in	¼ in	25	60	**2D903**
W236	1 ½ in	½ in	¼ in	25	60	**4F787**
W237	1 ½ in	1 in	¼ in	23	60	**2D904**
W238	1 ½ in	1½ in	¼ in	16	60	**2D905**
W242	2 in	1 in	¼ in	19	60	**2D906**
Cotton Fiber Mounted Points						
Norton						
W163	¼ in	½ in	⅛ in	60	80	**2LRK4**
W220	1 in	1 in	¼ in	26	80	**2LRK1**
Charger® Resin Mounted Points						
Norton						
A1	¾ in	2½ in	¼ in	20	30	**3UN58**
A3	1 in	2¾ in	¼ in	16	30	**3UN59**
A5	¾ in	1¼ in	¼ in	45	30	**3UN60**
A11	⅞ in	2 in	¼ in	20	30	**3UN61**
W189	½ in	2 in	¼ in	24	30	**3UN62**
W207	¾ in	1½ in	¼ in	24	30	**3UN64**
W220	1 in	1 in	¼ in	26	30	**6PC06**
W221	1 in	1½ in	¼ in	19	30	**3UN66**
W222	1 in	2 in	¼ in	16	30	**3UN67**
Aluminum Oxide Mounted Points						
Approved Vendor						
A3	1 in	2¾ in	¼ in	11	60	**447T13**
A12	11⁄16 in	1¼ in	¼ in	27	60	**447T12**
B52	⅜ in	¾ in	⅛ in	21	60	**447T14**
B53	5⁄16 in	⅝ in	⅛ in	26	60	**447T09**
B121	½ in	½ in	⅛ in	21	60	**447T15**
B122	⅜ in	⅜ in	⅛ in	27	60	**447T11**

NORTON SAINT-GOBAIN

Abrasive Sharpening Files and Stones

Crystolon—Fast-cutting silicon carbide abrasive.

Diamond—Diamond abrasive is nickel-bonded to solid steel.

Hard Arkansas—Natural novaculite abrasive produces a fine edge and polished finish.

India—Smooth-cutting aluminum oxide abrasive.

Combination Grit Benchstone

Machine Knife Stone

Single Grit Benchstone

Knife Blade File

Round File

Square File

Triangular File

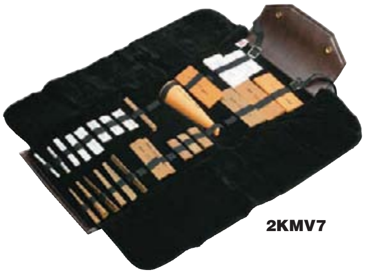
Description	Grade	L	H	Item No.
Crystolon/India Stone				
Combination Grit Benchstone	Medium/Fine	6 in	1 in	1RDG4
Crystolon File				
Utility	Coarse	14 in	—	1RCZ7
Crystolon Stones				
Combination Grit Benchstone	Coarse/Fine	4 in	—	1RDG9
	Coarse/Fine	4 in	⅝ in	1RDG7
	Coarse/Fine	5 in	¾ in	1RDG5
	Coarse/Fine	6 in	1 in	6A434
	Coarse/Fine	8 in	1 in	6A435
	Coarse/Fine	11 ½ in	—	1RDH3
	Coarse/Fine	12 in	1 ½ in	1RDH1
Machine Knife	Coarse/Fine	4 in	1 ½ in	4B126
Round Edge Slip	Fine	4 ½ in	½ in	4B125
Rubbing Brick	Coarse	8 in	2 in	1RDE4
Rubbing Brick, Fluted	Coarse	8 in	2 in	1RDE3
Single Grit Benchstone	Fine	8 in	1 in	1RDA4
	Medium	4 in	¼ in	4DDT3
Utility	Coarse/Fine	14 ¾ in	—	1RCZ5
	Medium	14 ¾ in	—	1RCZ2
Diamond Stone				
Single Grit Benchstone	Super Fine	6 in	¼ in	1RDA8
Economy Stones				
Combination Grit	Coarse/Fine	6 in	¾ in	1RDF5
	Coarse/Fine	8 in	¾ in	1RDF3
	Coarse/Fine	8 in	1 in	1RDF4
Hard Arkansas Files				
Flat	Ultra Fine	3 in	⅜ in	1RDG3
Knife Blade	Ultra Fine	3 in	¾ in	1RDG2
Pointed	Ultra Fine	3 in	¼ in	1RDF8
Round	Ultra Fine	3 in	¼ in	1RDE6
Square	Ultra Fine	3 in	¼ in	1RCX6
	Ultra Fine	3 in	⅜ in	1RCX4
	Ultra Fine	3 in	½ in	1RCX8
Triangle	Ultra Fine	3 in	¼ in	1RCW2
	Ultra Fine	3 in	½ in	1RCW5
Hard Arkansas Stones				
Penknife Benchstone	Ultra Fine	3 in	⅜ in	1RDD7
	Ultra Fine	4 in	⅜ in	1RDB7
Round Edge Slip	Ultra Fine	4 in	⅜ in	6A452
Single Grit Benchstone	Ultra Fine	4 in	¾ in	1RDB5
	Ultra Fine	6 in	½ in	4B106
	Ultra Fine	6 in	¾ in	1RDA6
	Ultra Fine	8 in	¾ in	1RDA2
India/Hard Arkansas File Set				
10-Piece	Fine/Ultra Fine	—	—	4B124
India Files				
Half Round	Fine	4 in	⅜ in	4B116
	Fine	4 in	½ in	4B118
	Medium	4 in	⅜ in	4B117
	Medium	4 in	½ in	4B119
Knife Blade	Fine	4 in	⅛ in	6A450
	Medium	4 in	1 in	6A451
Pointed	Fine	3 in	5/16 in	1RDF6
	Medium	3 in	5/16 in	1RDF7
Round	Fine	4 in	¼ in	4B120
	Fine	4 in	⅜ in	4B121
	Fine	4 in	½ in	4B122
	Medium	4 in	¼ in	6A448
	Medium	4 in	⅜ in	6A449
	Medium	4 in	½ in	4B123
Round, Tapered	Medium	4 in	½ in	1RDE5
Silversmith	Fine	4 in	½ in	1RDD9
	Medium	4 in	½ in	1RDE1
Silversmith, Tapered	Medium	4 in	½ in	1RDD8
Square	Coarse	4 in	½ in	1RCX2
	Fine	4 in	¼ in	4B108
	Fine	4 in	⅜ in	4B109
	Fine	4 in	½ in	6A442
	Fine	6 in	½ in	1RCW9
	Fine	6 in	⅝ in	4B111
	Fine	6 in	1 in	4B113
	Medium	4 in	¼ in	6A441
	Medium	4 in	⅜ in	4B110
	Medium	4 in	½ in	6A443
	Medium	6 in	½ in	6A444
	Medium	6 in	⅝ in	4B112
	Medium	6 in	¾ in	1RCW7
	Medium	6 in	1 in	6A445
Triangle	Fine	4 in	¼ in	1KYE9
	Fine	4 in	⅜ in	6A447
	Fine	6 in	⅝ in	3WF65
	Medium	4 in	¼ in	1KYF2
	Medium	4 in	⅜ in	6A446
	Medium	4 in	½ in	4B115
	Medium	6 in	½ in	1KYE7
India Stones				
Combination Grit Benchstone	Coarse/Extra Fine	6 in	1 in	4F756
	Coarse/Fine	4 in	⅝ in	1RDG6
	Coarse/Fine	4 in	1 in	1RDG8
	Coarse/Fine	6 in	1 in	6A436
	Coarse/Fine	8 in	1 in	6A437
	Coarse/Fine	11 ½ in	—	1RDH2
Gouge	Fine	6 in	—	1RCY1
Reamer	Fine	5 in	3/16 in	1RCY5
	Medium	4 ½ in	5/16 in	1RCY9
	Medium	5 in	3/16 in	1RCY7
	Medium	6 in	¼ in	1RCY3
Round Edge Slip	Fine	4 ½ in	1 ¾ in	1RDE7
	Medium	4 ½ in	1 ¾ in	1RDE9
	Medium	4 ½ in	1 ¾ in	1RDE8
	Medium	4 in	1 in	4DDT2
Single Grit Benchstone	Fine	4 in	¼ in	1RDB9
	Fine	4 in	½ in	1RDD5
	Fine	5 in	⅝ in	1RDB3
	Fine	6 in	1 in	1RDB1
	Fine	8 in	1 in	6A439
	Medium	4 in	¼ in	1RDD3
	Medium	4 in	½ in	1RDD6
	Medium	6 in	1 in	6A438
	Medium	8 in	1 in	6A440
Sickle and Scythe Stone				
Rectangular	Coarse	10 in	¾ in	1RCZ9
Waterstones				
Combination Grit	Course/Fine	8 in	1 in	1KYB9
	Extra Fine/ UltraFine	8 in	1 in	1KYB8
	Fine/Extra Fine	8 in	1 in	1KYB7
Single Grit	Coarse	8 in	1 in	1KYC9
	Ultra Fine	8 in	1 in	1KYC7
	Ultra Fine	8 in	1 in	1KYC2
	Very Fine	8 in	1 in	1KYC4
Single Grit, Pk. of 4	Coarse/Fine/Extra Fine/Ultra Fine	—	—	1KYD2

NORTON SAINT-GOBAIN

Abrasive Sharpening Stone Kits

2KMV7 sharpens woodworking tools.

2KMV8 is used for deburring, chamfering, radiusing, and fitting delicate metal parts.



2KMV7

2KMV8

No. of Pieces	Includes	Mfr. Model	Item No.
27	Durable Vinyl Roll with (1) Auger Bit Stone, (6) Carving Tool Slip, (2) Diamond, (1) Gouge, (2) Knife Blade, (6) Round Edge Slip, (1) Round, (1) Round Tapered, (2) Square, (2) Taper Shape, (1) Taper Triangular and (2) Triangular Files	61463654521	2KMV7
35	Durable Vinyl Roll with (1) Auger Bit Stone, (1) Bevel, (1) Flat, (1) Half Round, (1) India Point, (1) Oval, (1) Penknife, (1) Pointed, (1) Reamer Stone, (1) Taper Round, (1) Taper Triangle, (2) Diamond, (2) Knife Blade, (2) Round Edge Slip, (2) Square, (3) Benchstone, (5) Round, (8) Silversmith, and (2) Triangular Files	61463686841	2KMV8

The Operational Advantages of Power Brushes

THEY DON'T REMOVE BASE MATERIAL

The impact action of the wire tips of a rotating brush behave in the same manner as the media in a blasting operation and they have the same ability to separate surface contaminants without damaging the substrate.

Its compliant nature makes it an excellent choice for removing burrs and blending sharp edges without changing overall part dimensions after sawing, cutting, grinding, and machining operations.

NON-LOADING

Unlike bonded, coated, and non-woven abrasive products, power brushes will not load when used on softer materials or when removing paint or similar coatings from a harder surface. Because a power brush consists of a collection of individual wire filaments, there is no place for debris to accumulate and prevent the sharp wire tips from striking the work.

SELF-SHARPENING

As a power brush is used, the wire tips will naturally tend to wear to a point due to contact with the working surface. It is possible to take advantage of this self-sharpening action by periodically switching the mounting position of wheel brushes to maintain their speed and effectiveness.

Crimped Wire Cup Brush

Twist Wire Wheel Brush

Knotted Wire Cup Brush

Stringer Bead Twist Wheel Brush

WEILER

Arbor-Mount Grinder Wire Brushes

All brushes are made with high-tensile, heat-treated carbon steel wire, except where otherwise specified.

Crimped Wire Cup—Greater brushing flexibility for larger, flat surfaces and relatively fine finish.

Knot Wire Cup—For tight operations, corners and angle welds, curved surfaces, and pipe bevel cleaning. Double-row brush is for aggressive action in severe applications.

Knot Wire Wheel—Saucer-shaped radial wheels provide heavy-duty brushing and material removal, and still maintain some flexibility for cleaning filet welds and reaching into corners. Use with right angle grinders.

Stringer Bead Twist Wheel—Narrow brush face for stringer weld, piping, pipe grooves, and other hard-to-reach areas. Stainless steel brushes are recommended for aluminum, nonferrous alloyed metals, and stainless steel.

Twist Wire Wheel—For broader cleaning coverage, deburring, edge blending, and finishing. 3" wheels are used on straight grinders; 4" wheels are used on small angle grinders; and 6" wheels are used on bench and right angle grinders. Stainless steel brushes are recommended for aluminum, nonferrous alloyed metals, and stainless steel.

Brush Dia.	Wire Dia.	Arbor Hole Size	Trim Length	Max. RPM	Brand	Item No.
Crimped Wire Cup						
Carbon Steel						
2 ¾ in	0.02 in	⅜"-24	1 in	14,000	Weiler	**5HD66**
3 in	0.014 in	⅜"-24	1 in	14,000	Weiler	**5HD67**
	0.014 in	½"-13	1 in	14,000	Weiler	**3AC12**
	0.014 in	⅝"-11	1 in	14,000	Weiler	**3AC13**
3 ½ in	0.014 in	⅝"-11	⅞ in	12,000	Weiler	**6JXE3**
3 in	0.014 in	M10 x 1.25mm	1 in	14,000	Weiler	**3AC10**
4 in	0.014 in	⅝"-11	1 ⅜ in	10,200	Weiler	**4F715**
	0.02 in	⅝"-11	1 ⅜ in	10,200	Weiler	**5X893**
5 in	0.02 in	⅝"-11	1 ¼ in	9,000	Weiler	**4F716**
6 in	0.014 in	⅝"-11	1 ¼ in	6,600	Weiler	**4F717**
	0.02 in	⅝"-11	1 ¼ in	6,600	Weiler	**5X894**
Stainless Steel						
3 ½ in	0.014 in	⅝"-11	⅞ in	12,000	Weiler	**1PAJ9**
4 in	0.02 in	⅝"-11	1 ⅜ in	10,200	Weiler	**1PAK1**
Crimped Wire Wheels						
Carbon Steel						
2 in	0.014 in	½ in	½ in	20,000	—	**443N44**
3 in	0.014 in	½ in	1 in	20,000	—	**443M47**
	0.014 in	½ in	1 in	20,000	—	**443N32**
4 in	0.008 in	½ in	⅞ in	6,000	—	**443N71**
	0.008 in	½ in	⅞ in	12,500	—	**443P16**
	0.012 in	½ in	⅞ in	6,000	—	**443P11**
	0.012 in	½ in	⅞ in	12,500	—	**443P06**
	0.014 in	½ in	⅞ in	6,000	—	**443M81**
	0.014 in	½ in	⅞ in	6,000	—	**443N55**
6 in	0.008 in	⅝ in	1 ¼ in	6,000	—	**443N21**
	0.008 in	⅝ in	1 5⁄16 in	6,000	—	**443M95**
	0.009 in	⅝ in	1 ¼ in	6,000	—	**443M68**
	0.009 in	⅝ in	1 5⁄16 in	6,000	—	**443M93**
	0.012 in	⅝ in	1 ¼ in	6,000	—	**443M49**
	0.012 in	⅝ in	1 5⁄16 in	6,000	—	**443M91**
	0.014 in	⅝ in	1 ¼ in	6,000	—	**443M45**
	0.014 in	⅝ in	1 ¼ in	6,000	—	**443M58**
	0.014 in	⅝ in	1 ¼ in	6,000	—	**443M97**
	0.014 in	⅝ in	1 ¼ in	6,000	—	**443N80**
	0.014 in	⅝ in	1 5⁄16 in	4,500	—	**443N51**
	0.014 in	⅝ in	1 5⁄16 in	6,000	—	**443M67**
	0.014 in	⅝ in	1 5⁄16 in	6,000	—	**443N14**
	0.014 in	2 in	1 ¼ in	6,000	—	**443N11**
7 in	0.014 in	⅝ in	1 9⁄16 in	6,000	—	**443M78**
	0.014 in	⅝ in	1 9⁄16 in	6,000	—	**443M88**
8 in	0.008 in	⅝ in	1 ⅜ in	4,500	—	**443M21**
	0.014 in	⅝ in	1 ¾ in	6,000	—	**443M11**
	0.014 in	⅝ in	1 ⅝ in	4,500	—	**443M40**
	0.014 in	2 in	1 ¼ in	4,500	—	**443N10**
	0.014 in	2 in	1 ¾ in	4,500	—	**443M42**
	0.014 in	2 in	1 ¾ in	4,500	—	**443N83**
	0.014 in	2 in	1 ⅜ in	4,500	—	**443P26**
10 in	0.012 in	2 in	2 in	3,600	—	**443N62**
	0.014 in	¾ in	2 in	4,000	—	**443N01**
	0.014 in	2 in	1 ¾ in	4,000	—	**443N45**
	0.014 in	2 in	2 in	3,600	—	**443M94**
	0.014 in	2 in	2 in	4,000	—	**443N89**
	0.02 in	2 in	2 in	3,600	—	**443N43**
Stainless Steel						
3 in	0.014 in	½ in	1 in	20,000	—	**443M70**
6 in	0.012 in	⅝ in	1 ¼ in	6,000	—	**443N03**
	0.012 in	⅝ in	1 5⁄16 in	4,500	—	**443N16**
8 in	0.012 in	2 in	1 ⅜ in	4,500	—	**443P44**
Knotted Wire Cup						
Carbon Steel						
2 ¾ in	0.014 in	⅝"-11	1 in	14,000	Weiler	**6JXD9**
	0.02 in	½"-13	1 in	14,000	Weiler	**3AC08**
	0.02 in	⅝"-11	1 in	14,000	Weiler	**3AC09**
	0.02 in	M10 x 1.25mm	1 in	14,000	Weiler	**3AC06**
3 ½ in	0.014 in	⅝"-11	1 ¼ in	9,000	Weiler	**2FZ16**
	0.023 in	⅝"-11	⅞ in	13,000	Weiler	**1PAJ7**
4 in	0.014 in	⅝"-11	1 ¼ in	10,200	Weiler	**4F713**
	0.023 in	⅝"-11	1 ¼ in	10,200	Weiler	**5X891**
5 in	0.023 in	⅝"-11	1 ⅜ in	7,000	Weiler	**4F714**
6 in	0.014 in	⅝"-11	1 ⅜ in	6,600	Weiler	**3H593**
	0.023 in	⅝"-11	1 ⅜ in	6,600	Weiler	**5X892**
	0.023 in	⅝"-11	1 ⅜ in	6,600	Weiler	**2FZ15** *
	0.035 in	⅝"-11	1 ⅜ in	6,600	Weiler	**6JXD5**
Stainless Steel						
2 ¾ in	0.02 in	⅝"-11	1 in	14,000	Weiler	**1PAJ6**
3 ½ in	0.023 in	⅝"-11	⅞ in	13,000	Weiler	**1PAJ8**
4 in	0.014 in	⅝"-11	1 ¼ in	10,200	Weiler	**1PAK2**
	0.023 in	⅝"-11	1 ¼ in	10,200	Weiler	**1PAH5**
Knotted Wire Wheels						
Carbon Steel						
3 in	0.014 in	½ in	⅝ in	25,000	—	**443M74**
4 ½ in	0.02 in	⅝"-11	1 in	15,000	Weiler	**6JXE9**
6 in	0.02 in	⅝"-11	1 ¼ in	12,500	—	**443N31**
Stainless Steel						
4 ½ in	0.014 in	⅝"-11	1 in	15,000	Weiler	**6JXE7**
4 in	0.014 in	⅝"-11	⅞ in	6,000	Weiler	**1PAJ5**
Steel						
4 in	0.02 in	⅜ in	⅞ in	20,000	—	**443N02**
Stringer Bead Wheel						
Carbon Steel						
4 in	0.02 in	⅜"-24	⅞ in	20,000	Weiler	**5HD69**
4 ½ in	0.02 in	⅝"-11	13⁄16 in	15,000	Weiler	**6JXH8**
4 in	0.02 in	⅝"-11	⅞ in	20,000	Weiler	**3AC21**
	0.02 in	M10 x 1.25mm	⅞ in	20,000	Weiler	**3AC18**
	0.02 in	M10 x 1.50mm	⅞ in	20,000	Weiler	**3AC19**
5 in	0.02 in	⅝"-11	⅞ in	9,000	Weiler	**3H523**
6 in	0.02 in	⅝"-11	1 ⅛ in	12,500	Weiler	**3H505**
6 ⅞ in	0.02 in	⅝"-11	1 ⅛ in	20,000	Weiler	**3A201**
6 in	0.023 in	⅝"-11	1 ¼ in	12,500	Weiler	**3H503**
	0.023 in	⅝"-11	1 ⅜ in	9,000	Weiler	**3A200**
	0.023 in	⅝ in to ½ in	1 ⅜ in	12,500	Weiler	**5X890**
Stainless Steel						
4 in	0.02 in	⅜"-24	⅞ in	20,000	Weiler	**5HD70**
	0.02 in	⅝"-11	⅞ in	20,000	Weiler	**3H609**
	0.02 in	M10 x 1.25mm	⅞ in	20,000	Weiler	**3H607**
5 in	0.02 in	⅝"-11	⅞ in	20,000	Weiler	**1PAH6**
6 in	0.02 in	⅝"-11	1 ⅛ in	12,500	Weiler	**1PAH7**
6 ⅞ in	0.02 in	⅝"-11	1 ⅛ in	20,000	Weiler	**3H525**
Twisted Wire Wheels						
Carbon Steel						
3 in	0.012 in	½ in to ⅜ in	⅝ in	20,000	Weiler	**6JXC4**
	0.014 in	½ in to ⅜ in	⅝ in	20,000	Weiler	**3A198**
4 in	0.014 in	½ in	⅝ in	20,000	—	**443N60**
	0.014 in	½ in to ⅜ in	⅞ in	12,500	Weiler	**3A199**
	0.014 in	⅝ in to ½ in	⅞ in	20,000	Weiler	**6JXH3**
	0.014 in	⅝ in	⅞ in	20,000	—	**443N06**
	0.02 in	⅜"-24	⅞ in	20,000	—	**443N78**
	0.02 in	½"-13	⅞ in	20,000	Weiler	**3AC16**
	0.02 in	½ in to ⅜ in	⅞ in	20,000	Weiler	**6JXC7**
	0.02 in	⅝"-11	⅞ in	20,000	Weiler	**3AC17**
	0.02 in	⅝"-11	⅞ in	20,000	—	**443M01**
	0.02 in	⅝"-11	⅞ in	20,000	—	**443M07**
	0.02 in	⅝"-11	⅞ in	20,000	—	**443M12**
	0.02 in	M10 x 1.25mm	⅞ in	20,000	Weiler	**3AC14**
	0.02 in	M10 x 1.25mm	⅞ in	20,000	—	**443N64**
	0.02 in	M10 x 1.50mm	⅞ in	20,000	Weiler	**3AC15**
5 in	0.02 in	⅝"-11	⅞ in	12,500	—	**443M53**
6 in	0.014 in	⅝ in	1 ¼ in	9,000	—	**443M71**
	0.014 in	⅝ in to ½ in	1 ¼ in	12,500	Weiler	**4F718**
	0.02 in	⅝ in	1 ¼ in	9,000	—	**443N70**
	0.02 in	⅝"-11	1 in	12,500	—	**443P12**
	0.023 in	⅝ in to ½ in	1 ⅜ in	4,500	Weiler	**3H467**
	0.023 in	⅝"-11	1 ⅜ in	12,500	Weiler	**6JXC5**
	0.023 in	⅝ in to ½ in	1 ⅜ in	12,500	Weiler	**6JXC8**
7 in	0.02 in	⅝"-11	1 ½ in	9,000	—	**443M62**
8 in	0.02 in	⅝ in	1 ¼ in	8,500	—	**443M73**
	0.023 in	⅝ in	1 ⅝ in	6,000	Weiler	**6JXD2**
Stainless Steel						
3 in	0.014 in	½ in to ⅜ in	⅝ in	20,000	Weiler	**4F723**
4 in	0.014 in	½ in to ⅜ in	⅞ in	20,000	Weiler	**4F724**
	0.014 in	⅝"-11	⅞ in	20,000	—	**443M25**
	0.02 in	⅜"-24	⅞ in	20,000	Weiler	**5HD68**
	0.02 in	⅝"-11	⅞ in	20,000	—	**443M29**
	0.02 in	⅝"-11	⅞ in	20,000	—	**443M48**
5 in	0.02 in	⅝"-11	1 in	12,500	—	**443M82**
6 in	0.016 in	⅝ in to ½ in	1 ⅜ in	12,500	Weiler	**4F719**
	0.02 in	⅝"-11	1 ¼ in	12,500	—	**443N41**
8 in	0.023 in	⅝ in	1 ⅝ in	12,500	Weiler	**1PAH8**

** Double Row Cup*

Brush Dia.	Face Width	Wire Dia.	Arbor Hole Size	Max. RPM	Item No.
Carbon Steel					
Medium Brush Face					
6 in	⅝ in	0.014 in	⅝ in	12,500	**4F721**
	1 in	0.014 in	2 in	6,000	**3A196**
7 in	¾ in	0.014 in	⅝ in	6,000	**5Y001**
8 in	1 in	0.014 in	2 in	20,000	**3A197**
10 in	1 ⅛ in	0.014 in	2 in	4,500	**5Y010**
	1 ⅛ in	0.012 in	2 in	4,500	**5Y008**
	1 ⅛ in	0.02 in	2 in	12,500	**3H483**
Narrow Brush Face					
4 in	½ in	0.008 in	½ in	12,500	**3A194**
	½ in	0.012 in	½ in	12,500	**3H439**
	½ in	0.014 in	½ in	20,000	**5X884**
	½ in	0.014 in	⅝ in	20,000	**6JXE1**
6 in	¾ in	0.012 in	⅝ in	12,500	**3A195**
	¾ in	0.006 in	⅝ in	12,500	**5X885**
	¾ in	0.014 in	⅝ in to ½ in	12,500	**5X886**
8 in	¾ in	0.014 in	⅝ in	6,000	**5X887**
10 in	¾ in	0.014 in	¾ in	4,500	**5Y005**
12 in	¾ in	0.006 in	1¼ in	3,600	**6JXC2**
Wide Brush Face					
6 in	⅞ in	0.014 in	⅝ in	12,500	**4F722**
	1 ¼ in	0.014 in	2 in	12,500	**5X888**
7 in	⅞ in	0.014 in	⅝ in	9,000	**5Y002**
8 in	1 ½ in	0.014 in	2 in	6,000	**5X889**
10 in	1 ⅝ in	0.014 in	2 in	4,500	**3H471**
Stainless Steel					
Medium Brush Face					
8 in	1 in	0.012 in	2 in	20,000	**2FX91**
Narrow Brush Face					
4 in	½ in	0.006 in	½ in	20,000	**6JXC1**
6 in	¾ in	0.012 in	⅝ in to ½ in	6,000	**4F720**
Wide Brush Face					
6 in	1 ¼ in	0.006 in	2 in	12,500	**6JXC3**

Medium Brush Face
3A196

Wide Brush Face
5X888

WEILER

Arbor-Mount Crimped Wire Wheels

For cleaning rust, scale, dirt, and paint; deburring; edge blending; roughening for adhesion; flash removal of rubber and plastic; finishing for appearance; and finish preparation prior to painting or plating.

Medium Brush Face—Greater fill density creates more aggressive brushing action.

Narrow Brush Face—Produces flexible brushing action; conforms to uneven surfaces or irregular shapes. 4" wheels are used on straight grinders.

Wide Brush Face—Heavy fill density creates minimal flexibility. Fast aggressive cutting covers more surface area in a single pass.

Polyflex® Encapsulated
3A190

WEILER

Small-Diameter Wire Wheel Brushes

Use for burr removal in slots and narrow confined areas, rust removal, surface refinement and juncture blending, weld scale removal, and flash removal of rubber or plastic.

Brush Dia.	Arbor Hole Size	Shank Size	Face Width	Wire Dia.	Mfr. Model	Item No.
Crimped Wire Wheel, Arbor-Mount						
Carbon Steel						
1 ½ in	⅝ in	—	¼ in	0.01 in	96306	**2FZ25**
2 in	½ in	—	⅜ in	0.014 in	90113	**3A192**
3 in	½ in	—	⅝ in	0.012 in	93026	**6JXG3**
	½ in	—	⅝ in	0.014 in	90114	**3A193**
Stainless Steel						
3 in	½ in	—	⅝ in	0.014 in	96135	**3H679**
Polyflex® Encapsulated Crimped Wire Wheel, Arbor-Mount						
Carbon Steel						
2 in	½ in	—	¼ in	0.014 in	90109	**3A190**
3 in	½ in	—	¼ in	0.014 in	90110	**3A191**
Polyflex® Encapsulated Crimped Wire Wheel, Stem-Mount						
Carbon Steel						
2 in	—	¼"	¼ in	0.012 in	96146	**3H701**
3 in	—	¼"	¼ in	0.012 in	90119	**3A206**

5-Pc. Utility

WEILER

Brush Assortment Kits

Mini Grinder—Starter kit for 4½" and 5" mini right angle grinders. Fits all 5/8-11 threaded arbors. Use for deburring, deflashing, and removing rust, paint, and corrosion. Abrasive flap disc is used for grinding and finishing in one step.

Utility—Starter kit for use on die grinders, air tools, and electric and pneumatic drills. Components fit on all ¼" and higher arbor size chucks. Ideal for deburring and smoothing metal surfaces.

Description	Includes	Mfr. Model	Item No.
3-Pc. Mini Grinder	Mfr. No.13131 4" Knotted Wheel with ⅝-11 Arbor, Mfr. No. 50519 4½" 60 Grit Flap Disc and Mfr. No. 13286 2¾" Knotted Cup with ⅝-11 Arbor	97417	**4KY54**
5-Pc. Utility	Mfr. No. 17615 3" Stem-Mounted Wire Wheel Brush, Mfr. No. 16973 3" Stainless Steel Brush, Mfr. No. 07724 ½" Dia. ¼" Shaft Arbor, Mfr. No. 14301 1¾" Stem-Mounted Cup, and Mfr. No. 10008 ¾" Crimped Wire End Brush	97418	**4KY53**

Wire Brushes

Crimped Wire Brushes offer high brushing flexibility for light- to medium-duty brushing on flat or irregular surfaces. Knotted Wire Brushes have a more-rigid construction for use on more-demanding cutting and cleaning applications.

Carbon Steel can be used on carbon steel, iron, and wood surfaces.

Stainless Steel can be used on aluminum, brass, copper, stainless steel and wood surfaces.

Abrasive Nylon can be used on most surfaces.

Cup Brushes—Use with a right-angle grinder to remove rust, paint, scale, and concrete. Especially good on large surfaces, corners, recesses, and in other hard-to-reach areas.

End Brushes—Use with CNC machines, robotic, die grinders, and drill presses to clean and deburr recessed areas or inside diameters of tubes and pipes. Can also be used for rubber and plastic flash removal, paint and rust removal, and mold and tool polishing.

Wire Wheel Brushes—Use with a variety of machines for tough, aggressive surface cleaning applications. Leave a rougher finish.

416L88

416M56

416M32

Bristle Type	Brush Dia.	Mounting Type	Arbor Hole Size	Abrasive Shank Type	Wire Dia.	Bristle Trim Length	Max. RPM	Item No.
Cup Brush								
Carbon Steel								
Crimped Wire	1¾"	Shank	—	¼ in	0.006 in	½ in	13,000	**416M77**
	1¾"	Shank	—	¼ in	0.012 in	½ in	13,000	**416M48**
	2¼"	Shank	—	¼ in	0.014 in	⅝ in	4,500	**416M66**
	2¾"	Arbor Hole	⅝"-11	—	0.014 in	1 in	14,000	**416M61**
	3"	Arbor Hole	⅝"-11	—	0.014 in	13/16 in	14,000	**416L82**
	4"	Arbor Hole	⅝"-11	—	0.014 in	1 ⅛ in	9,000	**416M07**
	5"	Arbor Hole	⅝"-11	—	0.014 in	1 ⅜ in	8,000	**416M06**
Knotted Wire	2¾"	Arbor Hole	⅝"-11	—	0.014 in	⅞ in	14,000	**416M65**
	2¾"	Arbor Hole	⅝"-11	—	0.02 in	⅞ in	14,000	**416M63**
	3"	Arbor Hole	⅝"-11	—	0.02 in	⅞ in	14,000	**416L83**
	3"	Arbor Hole	M10 x 1.25mm	—	0.02 in	⅞ in	14,000	**416M19**
	3½"	Arbor Hole	⅝"-11	—	0.02 in	1 ⅜ in	7,500	**416N27**
	4"	Arbor Hole	⅝"-11	—	0.02 in	1 ⅛ in	9,000	**416L93**
	6"	Arbor Hole	⅝"-11	—	0.02 in	1 ⅜ in	6,000	**416M03**
Stainless Steel								
Crimped Wire	2"	Shank	—	¼ in	0.01 in	⅝ in	10,500	**416M37**
Knotted Wire	2¾"	Arbor Hole	⅝"-11	—	0.014 in	⅞ in	14,000	**416M28**
	3"	Arbor Hole	⅝"-11	—	0.02 in	⅞ in	14,000	**416L88**
End Brush								
Carbon Steel								
Crimped Wire	½"	Shank	—	¼ in	0.006 in	1 in	25,000	**416N50**
	½"	Shank	—	¼ in	0.01 in	1 in	25,000	**416M68**
	½"	Shank	—	¼ in	0.02 in	1 in	25,000	**416N66**
	¾"	Shank	—	¼ in	0.02 in	⅞ in	20,000	**416M17**
	¾"	Shank	—	¼ in	0.02 in	1 in	22,000	**416N64**
	1"	Shank	—	¼ in	0.014 in	¾ in	20,000	**416M14**
	1"	Shank	—	¼ in	0.02 in	1 in	20,000	**416M10**
	1"	Shank	—	¼ in	0.02 in	⅞ in	20,000	**416L98**
	1½"	Shank	—	¼ in	0.02 in	1 in	15,000	**416N25**
	2"	Shank	—	¼ in	0.01 in	1 ⅛ in	15,000	**416M92**
	3"	Shank	—	¼ in	0.02 in	1 in	20,000	**416L94**
Knotted Wire	½"	Shank	—	¼ in	0.006 in	1 ⅛ in	22,000	**416M26**
	½"	Shank	—	¼ in	0.014 in	1 ⅛ in	22,000	**416M24**
	¾"	Shank	—	¼ in	0.014 in	⅞ in	22,000	**416N38**
	¾"	Shank	—	¼ in	0.02 in	1 ⅛ in	22,000	**416N17**
	1"	Shank	—	¼ in	0.014 in	1 in	20,000	**416M59**
	1"	Shank	—	¼ in	0.02 in	1 in	20,000	**416L85**
Stainless Steel								
Crimped Wire	½"	Shank	—	¼ in	0.005 in	1 in	25,000	**416N13**
	½"	Shank	—	¼ in	0.014 in	1 in	25,000	**416M25**
	1"	Shank	—	¼ in	0.005 in	1 in	22,000	**416M56**
	1"	Shank	—	¼ in	0.01 in	1 in	22,000	**416M89**
Knotted Wire	¾"	Shank	—	¼ in	0.02 in	1 in	20,000	**416M09**
	¾"	Shank	—	¼ in	0.02 in	1 in	20,000	**416M02**
	1"	Shank	—	¼ in	0.006 in	1 ⅛ in	20,000	**416M31**
	1"	Shank	—	¼ in	0.01 in	1 ⅛ in	20,000	**416M83**
	1"	Shank	—	¼ in	0.014 in	1 in	20,000	**416M46**
	1"	Shank	—	¼ in	0.02 in	1 in	20,000	**416L90**

Bristle Type	Brush Dia.	Mounting Type	Arbor Hole Size	Abrasive Shank Type	Wire Dia.	Bristle Trim Length	Max. RPM	Item No.
Wire Wheel Brush								
Abrasive Nylon								
Knotted Wire	3"	Arbor Hole	⅝ in	—	3.0 in	15/16 in	15,000	**416N11**
Carbon Steel								
Crimped Wire	1"	Arbor Hole	5/16 in	—	0.008 in	3/16 in	20,000	**416M95**
	1½"	Shank	—	¼ in	0.008 in	¼ in	25,000	**416M33**
	1½"	Shank	—	¼ in	0.012 in	⅜ in	20,000	**416M94**
	1½"	Shank	—	¼ in	0.014 in	¼ in	25,000	**416M41**
	2"	Shank	—	¼ in	0.008 in	7/16 in	25,000	**416M44**
	2"	Shank	—	¼ in	0.014 in	7/16 in	25,000	**416M42**
	2"	Shank	—	¼ in	0.02 in	7/16 in	25,000	**416M45**
	2½"	Shank	—	¼ in	0.008 in	11/16 in	25,000	**416M64**
	2½"	Shank	—	¼ in	0.014 in	11/16 in	25,000	**416M47**
	3"	Shank	—	¼ in	0.008 in	¾ in	25,000	**416N06**
	3"	Shank	—	¼ in	0.014 in	¼ in	20,000	**416M27**
	3"	Shank	—	¼ in	0.014 in	¾ in	25,000	**416M52**
	3"	Shank	—	¼ in	0.02 in	¾ in	25,000	**416N10**
	4"	Shank	—	¼ in	0.014 in	1 in	25,000	**416M40**
	4"	Arbor Hole	⅝ in	—	0.014 in	⅞ in	15,000	**416M30**
	6"	Arbor Hole	⅝ in	—	0.014 in	1 ⅛ in	6,000	**416L99**
	6"	Arbor Hole	⅝ in	—	0.014 in	1 ⅛ in	6,000	**416M08**
	8"	Arbor Hole	⅝ in	—	0.014 in	1 9/16 in	4,000	**416L86**
	8"	Arbor Hole	⅝ in	—	0.014 in	1 9/16 in	4,000	**416L97**
	8"	Arbor Hole	1¼ in	—	0.014 in	1 ½ in	4,500	**416M50**
	10"	Arbor Hole	¾ in	—	0.014 in	2 ½ in	3,600	**416M05**
	12"	Arbor Hole	2 in	—	0.012 in	3 ¼ in	3,600	**416M34**
Knotted Wire	3"	Shank	—	¼ in	0.014 in	⅝ in	25,000	**416M51**
	3"	Arbor Hole	⅜ in	—	0.014 in	⅝ in	25,000	**416N97**
	4"	Arbor Hole	⅝ in	—	0.014 in	⅞ in	20,000	**416M55**
	4"	Arbor Hole	⅝"-11	—	0.02 in	⅞ in	20,000	**416M60**
	6"	Arbor Hole	⅝ in	—	0.014 in	1 ½ in	9,000	**416M54**
Twisted Wire	4"	Arbor Hole	⅝"-11	—	0.02 in	⅞ in	20,000	**416L84**
	4"	Arbor Hole	⅝ in	—	0.02 in	1 in	20,000	**416L87**
	4"	Arbor Hole	⅝ in	—	0.02 in	⅞ in	20,000	**416L92**
	4"	Arbor Hole	⅝ in	—	0.02 in	⅞ in	20,000	**416M29**
	6"	Arbor Hole	⅝ in	—	0.02 in	1 ¼ in	12,000	**416M12**
Stainless Steel								
Crimped Wire	3"	Arbor Hole	½ in	—	0.005 in	1 in	20,000	**416M36**
	3"	Shank	—	¼ in	0.008 in	¾ in	20,000	**416M39**
	3"	Shank	—	¼ in	0.014 in	¾ in	25,000	**416M35**
Knotted Wire	4"	Arbor Hole	⅝ in	—	0.02 in	¾ in	20,000	**416M91**
Twisted Wire	4"	Arbor Hole	⅝ in	—	0.02 in	⅞ in	20,000	**416M32**
	4"	Arbor Hole	⅝ in	—	0.02 in	⅞ in	20,000	**416M43**

Crimped Wire Wheel

Cup Brushes

Knot Wire Wheel

¼" Stem-Mounted Wheel and Cup Brushes

Crimped wire wheel brushes have great flexibility on uneven surfaces. Knot wire wheel brushes have a strong twist for longer life and aggressive rough finishing. Brushes contain high-carbon, heat-tempered steel wire for aggressive cutting action and maximum life. Special 3-D crimping means less wire breakage.

Stainless Steel—Recommended for stainless steel, aluminum, and nonferrous alloyed metals.

Brush Dia.	Face Width	Wire Dia.	Trim Length	Max. RPM	Brand	Item No.
Crimped Wire Wheels						
Carbon Steel						
2 in	⅜ in	0.006 in	½ in	20,000	Weiler	**3A204**
	⅜ in	0.012 in	½ in	20,000	Weiler	**3A205**
	¾ in	0.012 in	7/16 in	20,000	Weiler	**6JXG5**
3 in	½ in	0.008 in	1 in	20,000	Weiler	**5X897**
	½ in	0.012 in	1 in	20,000	Weiler	**5X898**
	½ in	0.014 in	1 in	25,000	Weiler	**6JXG4**
	⅝ in	0.012 in	13/16 in	25,000	Weiler	**6JXH1**
Stainless Steel						
2 in	⅜ in	0.012 in	½ in	20,000	Weiler	**3H697**
3 in	½ in	0.014 in	1 in	20,000	Weiler	**3H699**
	⅝ in	0.014 in	13/16 in	25,000	Weiler	**6JXH2**
Crimped Wire Wheels, Shank						
Carbon Steel						
¾ in	3/16 in	0.005 in	3/16 in	37,000	—	**443N67**
1 in	3/16 in	0.005 in	5/16 in	37,000	—	**443N98**
1¼ in	¼ in	0.005 in	⅜ in	37,000	—	**443P28**
1½ in	¼ in	0.012 in	¼ in	20,000	—	**443M61**
2 in	¼ in	0.009 in	⅜ in	4,500	—	**443M55**
	¼ in	0.012 in	⅜ in	4,500	—	**443M43**
	⅜ in	0.008 in	½ in	20,000	—	**443M15**
	⅜ in	0.012 in	½ in	20,000	—	**443M05**
2½ in	⅜ in	0.009 in	½ in	4,500	—	**443M99**
	⅜ in	0.012 in	½ in	4,500	—	**443M83**
3 in	7/16 in	0.009 in	9/16 in	4,500	—	**443M79**
	7/16 in	0.012 in	9/16 in	4,500	—	**443M52**
	½ in	0.008 in	1 in	20,000	—	**443M08**
	½ in	0.012 in	⅞ in	20,000	—	**443M02**
	⅝ in	0.008 in	1 in	20,000	—	**443M46**
	⅝ in	0.012 in	1 in	20,000	—	**443M14**
4 in	9/16 in	0.009 in	15/16 in	4,500	—	**443M51**
	9/16 in	0.012 in	15/16 in	4,500	—	**443M39**
Stainless Steel						
2 in	⅜ in	0.012 in	½ in	20,000	—	**443M20**
	⅜ in	0.012 in	½ in	20,000	—	**443M20**
3 in	½ in	0.014 in	⅞ in	20,000	—	**443M06**
	½ in	0.014 in	⅞ in	20,000	—	**443M06**
	⅝ in	0.012 in	1 in	20,000	—	**443M36**
	⅝ in	0.012 in	1 in	20,000	—	**443M36**
Cup Brushes						
Carbon Steel						
1¾ in	—	0.012 in	⅝ in	13,000	—	**443M16**
	—	0.012 in	¾ in	13,000	Weiler	**3A203**
2 in	—	0.012 in	⅝ in	13,000	Weiler	**6JXH6**
	—	0.012 in	⅝ in	13,000	—	**443M13**
Knotted Wire Wheels						
Carbon Steel						
3¼ in	⅜ in	0.012 in	⅝ in	25,000	Weiler	**6JXG7**
	⅜ in	0.014 in	⅝ in	20,000	Weiler	**3A207**
	⅜ in	0.02 in	⅝ in	25,000	Weiler	**6JXG9**
4 in	½ in	0.014 in	⅞ in	20,000	Weiler	**3A208**
Stainless Steel						
3¼ in	⅜ in	0.014 in	⅝ in	25,000	Weiler	**6JXH0**
Knotted Wire Wheels, Shank						
Carbon Steel						
3 in	⅜ in	0.014 in	⅝ in	25,000	—	**443M17**
3¼ in	¼ in	0.014 in	⅝ in	25,000	—	**443M60**
	¼ in	0.014 in	¾ in	25,000	—	**443M24**
4 in	½ in	0.014 in	⅞ in	20,000	—	**443M23**

Brush Dia.	Wire Dia.	Trim Length	Max. RPM	Brand	Item No.
Circular Flared					
Carbon Steel					
1 ½ in	0.006 in	⅞ in	20,000	Weiler	**6JXD4**
1 ½ in	0.02 in	⅞ in	22,000	Weiler	**3H687**
3 in	0.008 in	⅞ in	16,000	Weiler	**3H689**
3 in	0.02 in	⅞ in	16,000	Weiler	**3H691**
Crimped Wire					
Carbon Steel					
½ in	0.006 in	⅜ in	25,000	Weiler	**3H611**
½ in	0.008 in	⅞ in	25,000	—	**443N37**
½ in	0.012 in	⅞ in	25,000	—	**443N26**
½ in	0.014 in	⅞ in	25,000	Weiler	**3H613**
½ in	0.014 in	⅞ in	25,000	Weiler	**3H615**
½ in	0.014 in	⅞ in	25,000	—	**443N18**
½ in	0.02 in	⅞ in	25,000	Weiler	**1PAH9**
½ in	0.02 in	⅞ in	25,000	—	**443N56**
¾ in	0.006 in	⅞ in	22,000	Weiler	**4F703**
¾ in	0.008 in	⅞ in	22,000	—	**443N66**
¾ in	0.01 in	⅜ in	22,000	Weiler	**4F704**
¾ in	0.02 in	⅞ in	22,000	Weiler	**5X895**
¾ in	0.02 in	⅞ in	22,000	—	**443N50**
1 in	0.006 in	⅞ in	22,000	Weiler	**3H627**
1 in	0.008 in	1 in	22,000	—	**443M69**
1 in	0.01 in	⅜ in	22,000	Weiler	**4F705**
1 in	0.012 in	1 in	22,000	—	**443M96**
1 in	0.014 in	1 in	22,000	Weiler	**3H629**
1 in	0.014 in	1 in	22,000	—	**443N20**
1 in	0.02 in	1 ⅛ in	22,000	Weiler	**5X896**
1 in	0.02 in	1 ⅛ in	22,000	—	**443M86**
1 ½ in	0.02 in	¾ in	20,000	—	**443N13**
3 in	0.008 in	1 in	16,000	—	**443M30**
Stainless Steel					
½ in	0.006 in	1 in	25,000	Weiler	**3H617**
½ in	0.008 in	⅞ in	25,000	—	**443M98**
½ in	0.01 in	1 in	25,000	Weiler	**3H619**
½ in	0.012 in	⅞ in	25,000	—	**443N35**
½ in	0.014 in	⅞ in	25,000	Weiler	**3H621**
½ in	0.014 in	⅞ in	25,000	—	**443M63**
½ in	0.02 in	⅞ in	25,000	Weiler	**3H623**
¾ in	0.006 in	1 in	22,000	Weiler	**3H625**
¾ in	0.008 in	⅞ in	22,000	—	**443N68**
¾ in	0.01 in	⅜ in	22,000	Weiler	**4F706**
¾ in	0.012 in	⅞ in	22,000	—	**443N23**
1 in	0.006 in	1 in	22,000	Weiler	**2FZ08**
1 in	0.008 in	1 in	22,000	—	**443M76**
1 in	0.01 in	⅜ in	22,000	Weiler	**4F707**
1 in	0.012 in	1 in	22,000	—	**443M37**
Knotted Wire					
Carbon Steel					
¾ in	0.014 in	⅞ in	22,000	—	**443M34**
¾ in	0.02 in	⅞ in	22,000	—	**443M35**
1 ⅛ in	0.014 in	⅞ in	22,000	—	**443M19**
1 ⅛ in	0.02 in	⅞ in	22,000	—	**443M10**
Stainless Steel					
¾ in	0.014 in	⅞ in	22,000	—	**443M38**
1 ⅛ in	0.014 in	⅞ in	22,000	—	**443M27**
Twisted Wire					
Carbon Steel					
¾ in	0.014 in	¼ in	22,000	Weiler	**4F708**
¾ in	0.02 in	⅞ in	22,000	Weiler	**4F709**
1 ⅛ in	0.014 in	1 ⅛ in	22,000	Weiler	**4F710**
1 ⅛ in	0.02 in	¼ in	22,000	Weiler	**3A202**
Stainless Steel					
¾ in	0.014 in	¼ in	22,000	Weiler	**4F711**
1 ⅛ in	0.014 in	¼ in	22,000	Weiler	**4F712**

Circular Flared
3H689

Crimped Wire
3H613

Twisted Wire
4F710

WEILER

¼" Stem-Mounted End Brushes

For use in portable tools. Compact brushes are shaped for hard-to-reach areas. Use for carbon cleaning; I.D. pipe cleaning; die, mold, and tool cleaning and polishing; and rust and paint removal.

Circular Flared—Flare design accommodates the natural working angle for consistent finishing. Allows easy access to a broad range of surface angles and contours.

Crimped Wire—For light-duty brushing applications. Stainless steel brushes are recommended for stainless steel, aluminum, and nonferrous alloyed metals.

Knot Wire—High-tensile carbon or 302 stainless steel yields maximum cutting action. High RPM ratings meet or exceed industry standards.

WEILER

⅛" Stem-Mounted Miniature Brushes

Provide excellent accuracy where precision brushing is critical. Ideal for general cleaning, deburring, and blending surface junctures in electronics, instrumentation, and tool-and-die work.

Brush Dia.	Wire Dia.	Fill Type	Max. RPM	Item No.
Wire Wheel Brushes				
¾ in	0.005 in	Carbon Steel	20,000	**5HD74**
¾ in	0.005 in	Stainless Steel	20,000	**5HD75**
1 in	0.005 in	Carbon Steel	20,000	**5HD78**
1 in	0.005 in	Brass	20,000	**5HD79**
1 ¼ in	0.005 in	Carbon Steel	20,000	**5HD80**
End Brushes				
3⁄16 in	0.003 in	Brass	37,000	**5HD81**
3⁄16 in	0.003 in	Carbon Steel	37,000	**5HD82**
3⁄16 in	0.003 in	Stainless Steel	37,000	**5HD83**
¼ in	0.005 in	Brass	37,000	**5HD84**
¼ in	0.005 in	Carbon Steel	37,000	**5HD85**
¼ in	0.005 in	Stainless Steel	37,000	**5HD86**
5⁄16 in	0.005 in	Stainless Steel	25,000	**5HD88**
Cup Brushes				
⅝ in	0.005 in	Carbon Steel	37,000	**5HD89**
⅝ in	0.005 in	Brass	37,000	**5HD90**
⅝ in	0.005 in	Stainless Steel	37,000	**5HD91**

Wire Wheel
5HD74

Cup Brush
5HD89

End Brush
5HD85

WEILER

Brass and Bronze Nonsparking Wire Brushes

An excellent choice for cleaning molds and dies in plastic injection and extrusion applications, particularly in environments where potentially explosive or flammable materials may be present.

Twist Wire Wheel
33M606

Cup Brushes
33M613

Knot Wire Cup
33M607

Single Spiral Tube
33M625

Brush Dia.	Arbor Hole	Face Width	Wire Dia.	Max. RPM	Item No.	Pkg. Qty.
Crimped Wire Arbor Hole Mount Wire Wheel Brushes						
Brass						
1 ½ in	⅜"	¼ in	0.005 in	20,000	**33M637**	1
2 in	½"	⅜ in	0.012 in	20,000	**33M636**	1
3 in	½"	⅝ in	0.014 in	20,000	**33M635**	1
6 in	⅝"	½ in	0.005 in	20,000	**33M604**	1
	⅝"	½ in	0.012 in	6,000	**33M605**	1
Twisted Wire Arbor Hole Mount Wire Wheel Brushes						
Bronze						
3 in	½"	⅜ in	0.02 in	20,000	**33M606**	1
4 in	⅝"	½ in	0.02 in	20,000	**33M612**	1
Crimped Wire Cup Brushes						
Brass						
5 in	⅝" - 11"	—	0.014 in	8,000	**33M619**	1
Bronze						
3 in	⅝" - 11"	—	0.02 in	14,000	**33M613**	1
4 in	⅝" - 11"	—	0.02 in	9,000	**33M620**	1
6 in	⅝" - 11"	—	0.02 in	6,600	**33M618**	1
Knotted Wire Cup Brushes						
Bronze						
2 ¾ in	⅝" - 11"	—	0.02 in	14,000	**33M614**	1
4 in	⅝" - 11"	—	0.02 in	9,000	**33M611**	1

Brush Dia.	Shank Size	Wire Dia.	Max. RPM	Item No.	Pkg. Qty.
Crimped Wire Shank Mount Wire Wheel Brushes					
Brass					
3 in	¼"	0.012 in	20,000	**6JXG6**	1
Crimped Wire Cup Brushes					
Brass					
1 ¾ in	¼"	0.006 in	13,000	**33M615**	1
	¼"	0.0118 in	13,000	**33M617**	1
2 ¾ in	¼"	0.0118 in	6,000	**33M616**	1
Crimped Wire End Brushes					
Brass					
½ in	¼"	0.005 in	25,000	**33M610**	1
1 in	¼"	0.005 in	22,000	**33M609**	1
	¼"	0.012 in	22,000	**33M608**	1
Twisted Wire End Brushes					
Bronze					
1 ⅛ in	¼"	0.006 in	20,000	**33M607**	1
Power Operation Spiral and Tube Brushes					
Brass					
0.187 in	0.094 in	0.003 in	2,000	**33M631**	10
0.25 in	0.094 in	0.003 in	2,000	**33M632**	10
0.375 in	0.125 in	0.004 in	2,000	**33M628**	10
0.5 in	0.125 in	0.004 in	2,000	**33M624**	10
0.25 in	0.094 in	0.005 in	2,000	**33M622**	10
0.75 in	0.25 in	0.006 in	2,000	**33M626**	10
0.625 in	0.219 in	0.008 in	2,000	**33M630**	10
1 in	0.25 in	0.006 in	2,000	**33M629**	10
Brass					
0.25 in	0.125 in	0.004 in	2,000	**33M633**	10
0.5 in	0.188 in	0.006 in	2,000	**33M625**	10
1.5 in	0.25 in	0.008 in	2,000	**33M623**	10

Disc Brush
4GJD4

Wheel Brush
4GJC3

WEILER

Burr-Rx Brushes

Compliant, highly aggressive nylon filament is coextruded with ceramic grain for removal of large burrs and operation at elevated feed rates. Ideal for automated processes.

Brush Dia.	Face Width	Wire Dia.	Max. RPM	Mfr. Model	Item No.
Disc Brushes - Direct Mount Shell Mill Holder, 1¼" Arbor Hole					
4 in	—	0.026 in	1,800	97823	**4GJD4**
6 in	—	0.055 in	1,800	97826	**4GJD7**
Wheel Brushes - Composite Metal Hub, 2" Arbor Hole					
6 in	¾ in	0.026 in	12,500	97749	**4GJC1**
	¾ in	0.043 in	12,500	97802	**4GJC2**
	¾ in	0.055 in	12,500	97803	**4GJC3**
8 in	⅞ in	0.026 in	6,000	97804	**4GJC4**
	⅞ in	0.055 in	6,000	97805	**4GJC5**
10 in	1 ⅛ in	0.026 in	4,500	97806	**4GJC6**
	1 ⅛ in	0.055 in	4,500	97812	**4GJC7**
12 in	1 ¼ in	0.043 in	3,600	97813	**4GJC8**

Wire Wheel
1PBH2

End Brush
1PBG8

Cup Brush
1PBJ5

WEILER

Abrasive Nylon Brushes

For removing rust from metal surfaces and for light sanding jobs. Also for working with holes and round edges. Medium/Fine is for light-duty applications. Coarse and X-Coarse are for heavy-duty use.

Brush Dia.	Fill Type	Wire Dia.	Max. RPM	Mfr. Model	Item No.
Wire Wheel Brushes					
3 in	Nylon (Medium/Fine)	0.022 in	4,500	90436	**1PBH2**
	Nylon (Coarse)	0.022 in	4,500	90435	**1PBH1**
	Nylon (X-Coarse)	0.022 in	20,000	90434	**1PBG9**
4 in	Nylon (Medium/Fine)	0.04 in	4,500	90439	**1PBH5**
	Nylon (Coarse)	0.04 in	4,500	90438	**1PBH4**
	Nylon (X-Coarse)	0.04 in	9,000	90437	**1PBH3**
End Brushes					
¾ in	Nylon (Medium/Fine)	0.006 in	4,500	90433	**1PBG8**
	Nylon (Coarse)	0.006 in	4,500	90432	**1PBG7**
	Nylon (X-Coarse)	0.02 in	4,500	90431	**1PBG6**
Cup Brushes					
3 in	Nylon (Medium/Fine)	0.047 in	4,500	90448	**1PBJ5**
	Nylon (Coarse)	0.047 in	4,500	90447	**1PBJ4**
	Nylon (X-Coarse)	0.047 in	4,500	90446	**1PBJ3**

Wire Wheel
4GHX9

4GHZ3

WEILER

Nylox® Brushes

Brushes have nylon- and abrasive-grain filaments to deburr and blend edges. Conformable, nonloading brushes are ideal for automated processes.

Brush Dia.	Wire Size (in.)	Arbor Hole	Face Width	Max. RPM	Mfr. Model	Item No.
Wire Wheel Brushes						
Copper Center						
2 in	0.022/120	⅝"	7⁄16 in	20,000	97528	**4GHX9**
	0.022/320	½"	⅜ in	20,000	97446	**4GHX6**
	0.040/120	½"	⅜ in	20,000	97456	**4GHX7**
3 in	0.022/120	½"	½ in	20,000	97536	**4GHY3**
	0.022/320	½"	½ in	20,000	97531	**4GHY2**
	0.035/180	½"	½ in	20,000	97529	**4GHY1**
Narrow Face						
3 in	0.040/120	½"	⅜ in	20,000	97551	**4GHY5**
4 in	0.035/180	½"	½ in	20,000	97593	**4GHY6**
	0.040/120	½"	½ in	20,000	97594	**4GHY7**
	0.040/120	⅝"	⅝ in	20,000	97601	**4GHZ1**
Cup Brushes						
2 ¾ in	0.035/180	N/A	—	6,000	97602	**4GHZ2** *
3 ½ in	0.035/180	⅝" - 11"	—	12,000	97603	**4GHZ3**
5 in	0.040/120	⅝" - 11"	—	8,000	97604	**4GHZ4**
6 in	0.040/80	⅝" - 11"	—	6,600	96096	**3H605**

*** ¼" stem-mounted.***

3A573

WEILER

Drive Arbors with Threaded Shaft

Use with brushes with a maximum diameter of 3". Flush-mount design.

Arbor Hole (in.)	Stem Dia. (in.)	Stem Length (in.)	Max. RPM	Mfr. Model	Item No.
3/8 in	1/4 in	3/4 in	25,000 RPM	96086	**3H587**
1/2 in	1/4 in	3/4 in	25,000 RPM	95512	**3A573**

3H575

WEILER

2" Arbor Hole Metal Adapters

Fits Hole (in.)	Arbor Hole (in.)	Item No.
2	to 1/2	**3H567**
2	to 5/8	**3H569**
2	to 3/4	**3H571**
2	to 7/8	**3H573**
2	to 1	**3H575**
2	to 1 1/4	**3H577**
2	to 1 1/2	**3H579**

467G60

WEILER

Honing Brushes

- Silicon carbide abrasive

Resilient, flexible honing tools provide soft cutting action and remove burrs from cross-drilled holes.

Bore Dia.	Overall Length	Hone Length	60 GRIT Item No.	120 GRIT Item No.	180 GRIT Item No.	240 GRIT Item No.	320 GRIT Item No.	600 GRIT Item No.
3/16"	6"	25/32"	—	—	467F94	467F95	467F96	—
13/64"	6"	25/32"	—	—	467F97	467F98	467F99	—
7/32"	7 7/8"	1 1/2"	—	467G01	467G02	467G03	467G04	—
15/64"	7 7/8"	1 1/2"	—	467G05	467G06	467G07	467G08	—
17/64"	7 7/8"	1 1/2"	—	467G09	467G10	467G11	467G12	—
9/32"	7 7/8"	1 1/2"	—	467G13	467G14	467G15	467G16	—
19/64"	7 7/8"	2"	—	467G17	467G18	467G19	467G20	—
23/64"	7 7/8"	2"	—	467G21	467G22	467G23	467G24	—
25/64"	7 7/8"	2"	—	467G25	467G26	467G27	467G28	—
13/32"	7 7/8"	2"	—	467G29	467G30	467G31	467G32	—
7/16"	7 7/8"	2"	—	467G33	—	467G35	467G36	—
31/64"	7 7/8"	2"	—	467G37	—	467G39	467G40	—
17/32"	7 7/8"	2"	—	467G41	467G42	467G43	467G44	—
35/64"	7 7/8"	2 1/2"	—	467G45	467G46	467G47	467G48	—
39/64"	7 7/8"	2 1/2"	—	467G49	467G50	467G51	467G52	—
5/8"	8"	2 1/2"	—	—	—	—	—	467G57
45/64"	7 7/8"	2 1/2"	—	467G53	467G54	467G55	467G56	—
25/32"	8"	2 1/2"	—	—	—	—	—	467G70
51/64"	7 7/8"	2 1/2"	—	467G58	467G59	467G60	467G61	—
53/64"	7 7/8"	2 1/2"	—	467G62	467G63	467G64	467G65	—
7/8"	7 7/8"	2 1/2"	—	467G66	467G67	467G68	467G69	—
15/16"	7 7/8"	3"	—	467G75	—	—	—	—
15/16"	8"	3"	—	—	—	—	—	467G79
31/32"	7 7/8"	2 1/2"	—	467G71	467G72	467G73	467G74	—
1"	7 7/8"	3"	—	467G80	—	—	467G83	—
1"	8"	3"	—	—	—	—	—	467G84
1 1/32"	7 7/8"	3"	—	—	467G76	467G77	467G78	—
1 1/8"	7 7/8"	3"	—	467G85	467G81	467G82	467G88	—
1 1/8"	7 7/8"	3"	—	—	467G86	467G87	—	—
1 1/4"	7 7/8"	3"	—	467G89	—	467G91	467G92	—
1 13/32"	7 7/8"	3"	—	—	467G90	—	—	—
1 1/2"	8"	3"	467G97	—	—	—	—	467H03
1 35/64"	7 7/8"	3"	—	467G93	467G94	467G95	467G96	—
1 43/64"	7 7/8"	3"	—	467G98	467G99	467H01	467H02	—
1 13/16"	7 7/8"	3"	—	467H04	467H05	467H06	467H07	—
1 63/64"	7 7/8"	3"	—	467H08	467H09	467H10	467H11	—
2 3/32"	7 7/8"	3"	—	467H12	467H13	467H14	467H15	—
2 15/64"	7 7/8"	3"	—	467H16	467H17	467H18	467H19	—
2 3/8"	7 7/8"	3"	—	467H20	467H21	467H22	467H23	—
2 1/2"	7 7/8"	3"	—	467H24	467H25	467H26	467H27	—
2 39/64"	7 7/8"	3"	—	467H28	467H29	467H30	467H31	—
2 49/64"	7 7/8"	3"	—	467H32	467H33	467H34	467H35	—
2 57/64"	7 7/8"	3"	—	467H36	467H37	467H38	467H39	—
3 1/64"	7 7/8"	3"	—	467H40	467H41	467H42	467H43	—
3 1/8"	7 7/8"	3"	—	467H44	467H45	467H46	467H47	—
3 15/64"	7 7/8"	3"	—	467H48	467H49	467H50	467H51	—
3 15/64"	13 1/2"	5 1/2"	—	467H52	467H53	467H54	467H55	—
3 33/64"	13 1/2"	5 1/2"	—	467H56	467H57	467H58	467H59	—
3 3/4"	13 1/2"	5 1/2"	—	—	—	—	467H67	—
3 49/64"	13 1/2"	5 1/2"	—	467H60	467H61	467H62	467H63	—
4"	13 1/2"	5 1/2"	—	467H64	467H65	467H66	—	—
4 1/8"	13 1/2"	6 1/2"	—	467H72	—	—	—	—
4 15/64"	13 1/2"	6 1/2"	—	467H68	467H69	467H70	467H71	—
4 1/2"	13 1/2"	6 1/2"	—	467H77	467H78	467H79	467H80	—
4 1/2"	13 1/2"	6 1/2"	—	467H73	467H74	467H75	467H76	—
5 1/4"	18"	6 1/2"	—	467H81	467H82	467H83	467H84	—
5 49/64"	18"	6 1/2"	—	467H85	467H86	467H87	467H88	—
6 15/64"	18"	6 1/2"	—	467H89	467H90	467H91	467H92	—
10-mm	7 7/8"	2"	—	—	467G34	—	—	—
11-mm	7 7/8"	2"	—	—	467G38	—	—	—

Single Tube Brush 443N49

Single Spiral Brush 61CY95

WEILER

Spiral and Tube Brushes

- Pkg. of 10
- Single spiral shank style
- Manual operation

Use for manually deburring, honing, thread chasing, and cleaning blind and threaded holes.

Brush Dia.	Brush Length	Overall Length	Wire Dia.	Shank Size	Brand	Item No.
Tube Brush						
Steel Fill						
0.25 in	1 in	3 ½ in	0.006 in	0.125 in	—	**443N92**
0.312 in	1 in	3 ½ in	0.006 in	0.125 in	—	**443N61**
0.375 in	1 in	3 ½ in	0.006 in	0.125 in	—	**443N33**
0.5 in	1 in	3 ½ in	0.006 in	0.188 in	—	**443N87**
0.75 in	1 in	3 ½ in	0.006 in	0.219 in	—	**443N38**
Stainless Steel Fill						
0.25 in	1 in	3 ½ in	0.004 in	0.125 in	—	**443N39**
Nylon Fill						
0.25 in	2 in	6 ¼ in	0.005 in	0.125 in	—	**443N12**
0.375 in	2 in	8 ½ in	0.005 in	0.125 in	—	**443N19**
0.5 in	3 in	8 ½ in	0.01 in	0.25 in	—	**443N59**
0.75 in	3 in	8 ½ in	0.012 in	0.25 in	—	**443N30**
1 in	4 in	12 ¼ in	0.014 in	0.25 in	—	**443N54**
Brass Fill						
0.25 in	1 ½ in	7 in	0.004 in	0.094 in	—	**443N49**
0.375 in	2 in	8 in	0.004 in	0.125 in	—	**443N74**
0.5 in	2 in	8 in	0.004 in	0.125 in	—	**443N86**
Single Spiral Brush						
Steel Fill						
0.125 in	1 in	6 in	0.003 in	0.093 in	Weiler	**61CY94**
0.187 in	1 ½ in	7 in	0.005 in	0.093 in	Weiler	**61CY99**
	1 in	7 in	0.003 in	0.093 in	Weiler	**61CY96**
0.25 in	1 ½ in	7 in	0.003 in	0.093 in	Weiler	**61CZ02**
	1 ½ in	7 in	0.005 in	0.093 in	Weiler	**61CZ05**
0.375 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ06**
	2 in	8 in	0.006 in	0.125 in	Weiler	**61CZ09**
0.5 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ10**
	2 in	8 in	0.006 in	0.125 in	Weiler	**61CZ13**
Stainless Steel Fill						
0.125 in	1 in	6 in	0.003 in	0.093 in	Weiler	**61CY95**
0.187 in	1 in	7 in	0.003 in	0.093 in	Weiler	**61CY97**
0.25 in	1 ½ in	7 in	0.003 in	0.093 in	Weiler	**61CZ03**
0.375 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ07**
0.5 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ11**
Nylon Fill						
0.25 in	2 in	6 ¼ in	0.005 in	0.093 in	Weiler	**61CY87**
0.375 in	2 in	6 ¼ in	0.005 in	0.093 in	Weiler	**61CY88**
0.5 in	3 in	8 ½ in	0.01 in	0.125 in	Weiler	**61CY89**
0.75 in	3 in	8 ½ in	0.012 in	0.125 in	Weiler	**61CY90**
1.25 in	4 in	13 in	0.014 in	0.156 in	Weiler	**61CY92**
1 in	4 in	12 ¼ in	0.014 in	0.156 in	Weiler	**61CY91**
2 in	5 in	16 ¾ in	0.014 in	0.187 in	Weiler	**61CY93**
Brass Fill						
0.187 in	1 ½ in	7 in	0.003 in	0.093 in	Weiler	**61CY98**
0.25 in	1 ½ in	7 in	0.003 in	0.093 in	Weiler	**61CZ04**
0.375 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ08**
0.5 in	2 in	8 in	0.004 in	0.125 in	Weiler	**61CZ12**

Spiral Brush 416N35

Single Spiral 61CZ28

Double Spiral 61CZ14

Tube Brush 416N91

Burrite 61CZ35

WEILER NORTON SAINT-GOBAIN

Power Tube Brushes

Brushes can be used with power tools for deburring, honing, thread chasing, and cleaning applications on blind and threaded holes. Burrite-type brushes use flat-side action. Use Double Spiral Brushes for heavier-duty applications.

Shank Style	Brush Dia.	Brush Length	Overall Length	Wire Dia.	Shank Size	Max. RPM	Brand	Item No.
Spiral Brush								
Silicon Carbide Fill								
Single	0.25 in	2 in	5 in	0.022 in	0.156 in	1,500	Weiler	**1PAW2**
	0.875 in	2 ½ in	5 ½ in	0.022 in	0.25 in	1,500	Weiler	**1PAW7**
Steel Fill								
Double	0.187 in	1/16 in	7 in	0.004 in	0.094 in	3,000	Norton	**416N51**
	0.375 in	1/8 in	3 ½ in	0.005 in	0.125 in	3,000	Norton	**416N35**
	0.75 in	5 in	5 in	0.01 in	0.238 in	3,000	Norton	**416M62**
	1 in	3/8 in	5 in	0.006 in	0.238 in	3,000	Norton	**416N41**
	1 in	3/8 in	7 9/16 in	0.01 in	0.313 in	3,000	Norton	**416N37**
	1.75 in	1/2 in	7 5/16 in	0.012 in	0.313 in	3,000	Norton	**416N52**
Single	0.25 in	1/16 in	7 in	0.004 in	0.115 in	3,000	Norton	**416N48**
	0.375 in	1/8 in	8 in	0.004 in	0.132 in	3,000	Norton	**416N49**
	0.375 in	1/8 in	8 in	0.006 in	0.168 in	3,000	Norton	**416N47**
	0.437 in	11/64 in	3 ½ in	0.005 in	0.125 in	3,000	Norton	**416N90**
	0.75 in	1/4 in	7 9/16 in	0.01 in	0.238 in	3,000	Norton	**416N69**
	0.875 in	5/16 in	5 in	0.01 in	0.25 in	3,000	Norton	**416N54**
	1 in	3/8 in	5 in	0.01 in	0.238 in	3,000	Norton	**416N08**
	1 in	15/32 in	3 ½ in	0.008 in	0.125 in	3,000	Norton	**416P03**
	2 in	5 in	5 in	0.01 in	0.238 in	3,000	Norton	**416M75**
Single Spiral Brush								
Abrasive Nylon Fill								
Double	0.375 in	2 in	5 in	0.022 in	0.156 in	2,000	Weiler	**61CY82**
	0.5 in	2 in	5 in	0.022 in	0.187 in	2,000	Weiler	**61CY83**
	0.75 in	2 ½ in	5 ½ in	0.022 in	0.25 in	2,000	Weiler	**61CY84**
	1 in	2 ½ in	5 ½ in	0.022 in	0.25 in	2,000	Weiler	**61CY85**
	1.5 in	2 ½ in	5 ½ in	0.035 in	0.25 in	2,000	Weiler	**61CY86**
Steel Fill								
Single	0.312 in	1 in	3 ½ in	0.005 in	0.125 in	2,000	Weiler	**61CZ28**
	0.437 in	1 in	3 ½ in	0.005 in	0.125 in	2,000	Weiler	**61CZ29**
	1 in	1 in	3 ½ in	0.005 in	0.25 in	2,000	Weiler	**61CZ30**
	1.125 in	1 in	3 ½ in	0.008 in	0.25 in	2,000	Weiler	**61CZ31**
	1.25 in	1 in	3 ½ in	0.008 in	0.25 in	2,000	Weiler	**61CZ32**
	2.25 in	1 in	3 ½ in	0.008 in	0.25 in	2,000	Weiler	**61CZ33**
Double Spiral Brush								
Brass Fill								
Double	0.5 in	2 in	5 in	0.004 in	0.156 in	2,000	Weiler	**61CZ19**
	0.625 in	2 in	5 in	0.008 in	0.218 in	2,000	Weiler	**61CZ22**
	0.75 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CZ24**
Stainless Steel Fill								
Double	0.5 in	2 in	5 in	0.004 in	0.156 in	2,000	Weiler	**61CZ17**
	0.5 in	2 in	5 in	0.006 in	0.156 in	2,000	Weiler	**61CZ18**
	0.75 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CZ23**
	1 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CZ26**
Steel Fill								
Double	0.375 in	1 ½ in	4 in	0.003 in	0.125 in	2,000	Weiler	**61CZ14**
	0.375 in	2 ⅛ in	6 in	0.006 in	0.125 in	2,000	Weiler	**61CZ15**
	0.5 in	2 in	5 in	0.004 in	0.156 in	2,000	Weiler	**61CZ16**
	0.5 in	2 in	5 in	0.01 in	0.156 in	2,000	Weiler	**61CZ20**
	0.625 in	2 in	5 in	0.008 in	0.218 in	2,000	Weiler	**61CZ21**
	0.75 in	2 ½ in	5 ½ in	0.008 in	0.25 in	2,000	Weiler	**61CZ25**
	1.25 in	2 ½ in	5 ½ in	0.01 in	0.25 in	2,000	Weiler	**61CZ27**
Tube Brush								
Aluminum Oxide Fill								
Double	0.515 in	3/16 in	5 in	0.012 in	0.175 in	3,000	Norton	**416N72**
Nylon Fill								
Double	0.437 in	7/64 in	11 ½ in	0.01 in	0.125 in	3,000	Norton	**416N03**
	1 in	3/8 in	15 ½ in	0.01 in	0.156 in	3,000	Norton	**416M96**
Single	0.5 in	1/2 in	8 ½ in	0.008 in	0.094 in	3,000	Norton	**416M57**
	1.5 in	1/2 in	15 ½ in	0.01 in	0.219 in	3,000	Norton	**416M90**
	2 in	2 in	15 ½ in	0.01 in	0.219 in	3,000	Norton	**416M87**
Silicon Carbide Fill								
Double	0.75 in	3/8 in	5 in	0.04 in	0.238 in	3,000	Norton	**416N74**
Single	0.515 in	3/16 in	5 in	0.022 in	0.175 in	3,000	Norton	**416N59**
	1.015 in	3/8 in	5 in	0.022 in	0.255 in	3,000	Norton	**416P01**
Stainless Steel Fill								
Single	0.375 in	1/8 in	8 in	0.006 in	0.168 in	3,000	Norton	**416M58**
Steel Fill								
Double	1.25 in	3/8 in	3 ¾ in	0.006 in	0.25 in	4,500	Norton	**416N55**
Single	0.25 in	1/16 in	2 ⅛ in	0.003 in	0.094 in	3,000	Norton	**416N91**
	0.625 in	1/4 in	2 ¼ in	0.005 in	0.125 in	3,000	Norton	**416P06**
	0.625 in	5 in	5 in	0.01 in	0.208 in	3,000	Norton	**416M86**
Single Spiral Tube Brush								
Abrasive Nylon Fill								
Single	0.09 in	3/4 in	4 in	0.008 in	0.041 in	2,000	Weiler	**61CY75**
	0.105 in	1 in	4 in	0.008 in	0.041 in	2,000	Weiler	**61CY76**
	0.19 in	1 in	5 in	0.012 in	0.087 in	2,000	Weiler	**61CY77**
	0.26 in	1 in	5 in	0.012 in	0.115 in	2,000	Weiler	**61CY78**
	0.325 in	1 in	5 in	0.012 in	0.115 in	2,000	Weiler	**61CY79**
	0.385 in	1 in	5 in	0.012 in	0.147 in	2,000	Weiler	**61CY80**
	0.515 in	1 in	5 in	0.012 in	0.194 in	2,000	Weiler	**61CY81**
Stainless Steel Fill								
Single	0.25 in	1 in	3 ½ in	0.004 in	0.125 in	2,000	Weiler	**61CY71**
	0.375 in	1 in	3 ½ in	0.004 in	0.125 in	2,000	Weiler	**61CY68**
	0.5 in	1 in	3 ½ in	0.005 in	0.187 in	2,000	Weiler	**61CY69**
	0.75 in	1 in	3 ½ in	0.006 in	0.218 in	2,000	Weiler	**61CY72**
	0.875 in	1 in	3 ½ in	0.006 in	0.218 in	2,000	Weiler	**61CY70**
	1 in	1 in	3 ½ in	0.008 in	0.25 in	2,000	Weiler	**61CY73**
Steel Fill								
Single	0.25 in	1 in	3 ½ in	0.004 in	0.125 in	2,000	Weiler	**61CY53**
	0.375 in	1 in	3 ½ in	0.004 in	0.125 in	2,000	Weiler	**61CY54**
	0.5 in	1 in	3 ½ in	0.005 in	0.187 in	2,000	Weiler	**61CY55**
	0.625 in	1 in	3 ½ in	0.005 in	0.187 in	2,000	Weiler	**61CY56**
	0.75 in	1 in	3 ½ in	0.006 in	0.218 in	2,000	Weiler	**61CY57**
	0.875 in	1 in	3 ½ in	0.006 in	0.218 in	2,000	Weiler	**61CY58**
	1 in	1 in	3 ½ in	0.005 in	0.25 in	2,000	Weiler	**61CY59**
Double Spiral Tube Brush								
Steel Fill								
Double	0.5 in	2 in	5 in	0.006 in	0.156 in	2,000	Weiler	**61CY60**
	0.625 in	2 in	5 in	0.005 in	0.218 in	2,000	Weiler	**61CY61**
	0.75 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CY62**
	0.75 in	2 ½ in	5 ½ in	0.01 in	0.25 in	2,000	Weiler	**61CY65**
	0.875 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CY63**
	0.875 in	2 ½ in	5 ½ in	0.01 in	0.25 in	2,000	Weiler	**61CY66**
	1 in	2 ½ in	5 ½ in	0.006 in	0.25 in	2,000	Weiler	**61CY64**
	1 in	2 ½ in	5 ½ in	0.01 in	0.25 in	2,000	Weiler	**61CY67**
Burrite Tube Brush								
Stainless Steel Fill								
Burrite	0.375 in	9/16 in	2 ⅛ in	0.005 in	0.093 in	2,000	Weiler	**61CZ35**
Steel Fill								
Burrite	0.312 in	9/16 in	2 ⅛ in	0.005 in	0.093 in	2,000	Weiler	**61CZ34**
	0.562 in	9/16 in	2 ⅛ in	0.005 in	0.125 in	2,000	Weiler	**61CZ36**
Burrite Tube Brush Holder								
Fits 1/8" Hole, 1/4 in" Shank Dia.							Weiler	**1PBE2**
Fits 3/32" Hole, 1/4 in" Shank Dia.							Weiler	**1PBE1**

Deburring Blade Material and Application Chart

BLADE MATERIALS

Ceramic—Use for deflashing plastic materials.

High Speed Steel—Excellent general purpose blade for use on most materials.

Cobalt (S)—The best choice for Stainless Steel.

Carbide (C)—Best for Hardened Steel and Cast Iron.

TiN Coated (P)—Significantly increases HSS blade Life.

APPLICATIONS

Series B—Use on straight and front hole edges to remove burrs and other surface defects.

Series C—Use on flat surfaces and front and back hole edges.

Series D—Use for precision work on thin-gage sheet metal.

Series E—Use on sheet edges in hard-to-reach applications.

Series BURR-BI—Use on hard and soft materials, including sheet metal up to 16mm (0.63") thick.

Series F—Use on Hole Edges (ID) and Outer Edges (OD).

Series K—Use for finishing and deburring sheet edges.

Series L—Use on inner and outer straight and hole edges on sheet metal.

Series M—Use for deburring and finishing tube edges.

Series U—Miniature tools for deburring and scraping applications in dies and molds industry.

B10 B10P B10S B30 C40 C42

E100 E100P E100S

E300 E400 F12

F20 F26X F30

SHAVIV USA by Vargus — Leading Deburring Solutions | WESTWARD

Deburring Tool Blades And Holders

Refer to the Deburring Blade Material and Application Chart, above for descriptions and applications.

Series	Material	Item No.	Pkg. Qty.
Round Double Sided Blades			
Shaviv			
R10	High Speed Steel	**45NW90**	10
Deburring Replacement Blades			
Shaviv			
B	TiN	**45NX55**	10
B10	High Speed Steel	**45NW84**	100
B 10	High Speed Steel	**45JD16**	10
B 10C	Carbide	**45JD17**	10
B 10L	High Speed Steel	**45JD88**	10
B 10P	TiN	**45JD19**	10
B10S	Cobalt	**45NX28**	10
B10S	Cobalt	**45NX30**	10
B 11	High Speed Steel	**45JD94**	10
B 11P	High Speed Steel	**45JE07**	10
B 12	High Speed Steel	**45JD20**	10
B 12P	High Speed Steel	**45JD21**	10
B 20	High Speed Steel	**45JD23**	10
B 20C	Carbide	**45JD24**	10
B 20P	TiN	**45JD25**	10
B 25	High Speed Steel	**45JD26**	10
B 25C	Carbide	**45JD96**	10
B 30	High Speed Steel	**45JD27**	10
B 30P	TiN	**45JD28**	10
B 32	High Speed Steel	**45JD29**	10
B 60	High Speed Steel	**45JD31**	10
B 70	Carbide	**45JD32**	10
BUS2	High Speed Steel	**45NX21**	5
C 40	High Speed Steel	**45JD33**	10
C 42	High Speed Steel	**45JD34**	10
C 50	High Speed Steel	**45JE04**	2
C 60	High Speed Steel	**45JE05**	2
D 80C	Carbide	**45JD35**	10
E100	High Speed Steel	**45NW94**	100
E 100	High Speed Steel	**45JD38**	
E 100C	Carbide	**45JD39**	10
E 100CL	Carbide	**45JD98**	10
E 100D	High Speed Steel	**45JD40**	10
E 100L	High Speed Steel	**45JD90**	10
E 100P	TiN	**45JD41**	
E100PL	TiN	**45NW95**	10
E100S	Cobalt	**45NX29**	10
E 110	High Speed Steel	**45JD42**	10
E 110P	High Speed Steel	**45JD43**	10
E 111	High Speed Steel	**45JD95**	10
E111P	TiN	**45NX40**	10
E 120	High Speed Steel	**45JD62**	10
E 200	High Speed Steel	**45JD44**	10
E 200C	Carbide	**45JD45**	10
E 200P	High Speed Steel	**45JD91**	10
E200S	Cobalt	**45NX08**	10
E 250	High Speed Steel	**45JD92**	10
E 300	High Speed Steel	**45JD46**	
E300P	TiN	**45NX31**	10
E 320	High Speed Steel	**45JD47**	10
E 350	High Speed Steel	**45JD48**	10
E400	High Speed Steel	**45NX36**	10
E450	High Speed Steel	**45NX37**	10
E 600	High Speed Steel	**45JD49**	10
E 601	High Speed Steel	**45JD50**	10
E 700	High Speed Steel	**45JD51**	10
E 720	High Speed Steel	**45JD52**	10
F 12	High Speed Steel	**45JD53**	10
F 20	High Speed Steel	**45JD54**	10
F26X	High Speed Steel	**45NW93**	10
F 30	High Speed Steel	**45JD55**	10
Q10	Ceramic	**45NX38**	10
UB 2000	High Speed Steel	**45JD93**	10
UF 1	High Speed Steel	**45JD80**	10
US 1	High Speed Steel	**45JD81**	10
Westward			
B 10	High Speed Steel	**3VB49**	10
E 200	TiN	**2NXH7**	10

Series	Brand	Item No.
Deburring Blade Holder Ms		
Type M, B, E	Shaviv	**45NW87**
Deburring Blade Holders		
Type B, Axially or Perpendicular	Shaviv	**45JD06**
Type C	Shaviv	**45JD07**
Type E	Shaviv	**45JD10**
Type F	Shaviv	**45JD11**
Deburring Handles		
Dual Compound E	Shaviv	**45NX25**
Type B	Shaviv	**45NX60**
Type B, C, D, D5, E, F, FR, G, G3. K, L, U, Burr-Bi	Shaviv	**45NX62**
Type E	Shaviv	**45NX61**
Hand Deburring Blade Tool Sets		
Type E, For Straight Edges, Hole Edges, Cross Hole Both Edges	Shaviv	**45NX54**
Ratchet Blade Holders		
Type F	Shaviv	**45JD12**
Tool Holder, Handle & Blade		
C Blade Holder, C42 Blade, Mango II Handle	Shaviv	**45NX67**
Disposable Deburring Tool, Q Series, Curved Ceramic Blade	Shaviv	**45NY07**
E Series, Deburring Tool Set, Yellow Hex Shaped Handle with Pocketclip	Shaviv	**45NX06**
E Series, Yellow Hex Shaped Handle with Pocketclip, Fixed Heavy Duty Blade	Shaviv	**45NX17**
F20 Blade, FR Ratcheting Blade Holder, Mango II Handle	Shaviv	**45NX76**
F26X Blade, FR Ratcheting Blade Holder, Mango II Handle	Shaviv	**45NX77**
F Blade Holder, F20 Blade, Mango II Handle	Shaviv	**45NX75**
Glo-Burr Handle, Permanetly Atached Ceramic Blade	Shaviv	**45NX87**

Deburring Tool Sets

SHAVIV USA by Vargus — Leading Deburring Solutions

Refer to the Deburring Blade Material and Application Chart, above for descriptions and applications.

Description	Series	Includes	Item No.
Plumber Set	B, E	Ergo-Burr II Handle, F Holder, F26X OD Countersink, Glo-Burr E Handle with E100 Blade, (3) E100 Blades in Carrying Case	**52JH86**
Electrician Set	B, E	Mango II Handle, F Holder, F12 Countersink, MB2000 Handle with E100 Blade, E111 Blade, E400 Scraper Blade in Carrying Case	**52JH85**
Deburring Tool Sets	B	(2) B Blades, B Blade Holder, Mango II Handle	**45NX63**
	B	B Holder,B10 and B20 Blades, Handle	**45JD68**
	B	B Holder, B10 and B20 Blades, Handle	**45JD69**
	B, C	Mango II Handle, B, C Holders, B10, B20, B30, B60, B11, B70 Blades, C40 Scraper Blade	**45NX98**
	B, E	Aluminum A Handle, TIN Coated Blades	**45NX52**
	B, E	Mango II Handle, M Blade Holder, B10, B20, B30, E100, E111, E200 Blades	**45NX90**
	B, E	Mango II Handle, M Blade Holder for B, E Blades, E100 Blade, E111 Blade, E250 Blade, E400 Scraper Blade, Glo-Burr Handle, B30 Blade, B20 Blade in Carrying Case	**52JH83**
	B, E	Mango II Handle with B, E Holders, B10, B11, B25, E111, E250, E400, E707 Blades, Cera-Burr Ceramic Blade Tool	**45NX51**
	BURR-BI	(2) R10 Blades, BR Holder, Handguard, Mango II Handle	**45NX91**
	E	(3) E Blades, E Blade Holder, Mango II Handle	**45NX70**
	E	(4) Handles, E100, E200, E300 and E111 Blades	**45JE01**
	E	Aluminum A Handle, E Blade Holder, E100, E200, E300 Blades	**45NX89**
	E	E Holder, E100, E200 and E300 Blades, Handle	**45JD72**
	E, C	Mango II Handle, E, C Holders, E100P, E111, E200, E300, E600, E700 Blades, C42 Scraper Blade	**45NX99**
	U	Aluminum A Handle, U Holder, Scrape-Burr 400, Fine-Finishing Blades BUS1, BUS2, BUS31, BUS4	**45NX53**
Auto-Burr Set	B, E	Aluminum A Handle, FR Ratcheting Holder, F26X OD Countersink, F20 Countersink, UB2000 Handle with B11 Blade, B20 Blade, B25 Blade, B10S Cobalt Blade, B30 Blade in Carrying Case	**52JH84**
Aluminum Works Set	B, E	Aluminum A Handle, F Holder, F12 Countersink, MB2000 Handle with E200 Blade, E300 Blade in Carrying Case	**52JH87**

45JD68

45NX53

Pressure-Feed Steel Cabinet 6YY21

Siphon-Feed Steel Cabinet 53RJ26

Siphon-Feed Steel Cabinet 48ME53

Siphon-Feed Polymer Cabinet 15E778

ECONOLINE ALC ALLSOURCE

Abrasive Blast Cabinets

Use for surface preparation, or to remove rust, scale, and paint from small parts and/or larger pieces with irregular surfaces. **Siphon-Feed** (suction) cabinets, use suction created by a venturi to suck the abrasive media into the airflow and out the nozzle; they let you refill media while in operation, for continuous blasting. Although production is slower than pressure-feed cabinets, they provide equivalent results at a lower initial cost. **Pressure-Feed** cabinets use a Pressure Pot to pressurize the abrasive media before it mixes with the air in a mixing chamber, producing a high-quality finish at a faster rate.

Note: Additional accessories and parts are available on Grainger.com®.

ALC Polymer Blast Cabinets—Cabinets feature large viewing window, protective underlay, and leak-resistant 1-pc. construction, and come complete with gun and hose. Ready to hook up to air and add abrasive. Can be used with a small shop vac (not included) as a dust collector.

Econoline Steel Blast Cabinets—Cabinets handle glass, aluminum oxide, corn cob, and silicon carbide abrasive media. Require 5-HP compressor and 12 cfm compressed air at 80 psi. They're constructed with 14-ga. steel bodies, 11-ga. steel legs, and have a spring-loaded trap door attached to the hopper bottom. Include carbide nozzle and air jet, regulator and gage, foot pedal actuator, and replaceable cloth-lined rubber gloves. Dust collector required (sold separately); except 6YY21 comes with 400 cfm unit.

ALC Steel Blast Cabinets—A large viewing window and oversized top door opening help accommodate a wide range of items. The fully welded construction keeps blasting media from leaking out of the cabinet. Include a dust collector.

Allsource Steel Blast Cabinets—A foot pedal-controlled siphon blast gun reduces operator hand fatigue and a rear-mounted 90 CFM dust collector minimizes the machine's footprint to free up floor space. The oversized front door opening lets you easily load a variety of items into the cabinet. 53CV99 has a 150 lb. grate capacity. 48ME53 has a 400 lb. grate capacity and 48ME54 has a 500 lb. grate capacity to let you work on heavier items, such as engine blocks and cylinder heads.

Cabinet Design	Overall			Work Area			Window	Top Opening	Side Opening	Brand	Mfr. Model	Item No.
	Height (in.)	Width (in.)	Depth (in.)	Height (in.)	Width (in.)	Depth (in.)						
Steel Construction												
Pressure-Feed Blast Cabinets												
Floor	65 in	60 in	25 in	23 in	36 in	24 in	12 in x 24 in	36 in x 13 in	17 in x 11 in	Econoline	101694DG-A	**3JR97**
	71 in	31 in	51 in	24 in	48 in	26 in	12 in x 24 in	48 in x 24 in	17 in x 11 in	Econoline	101697WDG-A	**6YY21**
	81 in	81 in	57 in	33 in	46 in	34 in	30 in x 15 in	—	—	Allsource	42000	**448M04**
	96 in	42 in	39 in	35 in	40 in	38 in	23¾ in x 23¾ in	—	33 in x 26 in	Econoline	102760G-A	**3JR98**
	108 in	51 in	96 in	40 in	48 in	48 in	12 in x 24 in	48 in x 48 in	20 in x 30 in	Econoline	101699WD-A	**40HY72**
Siphon-Feed Blast Cabinets												
Floor	60 in	36 in	24 in	23 in	36 in	24 in	24 in x 12 in	13 in x 35 in	11 in x 17 in	ALC	40403L	**448M07**
	60 in	48 in	24 in	23 in	48 in	24 in	24 in x 12 in	13 in x 47 in	11 in x 17 in	ALC	40411L	**448M08**
	60 in	60 in	24 in	23 in	60 in	24 in	24 in x 12 in	13 in x 59 in	11 in x 17 in	ALC	40413L	**448M09**
Siphon-Feed Blast Cabinets												
Benchtop	33 in	19 in	17 in	16 in	18 in	16 in	6 in x 12 in	18 in x 12 in	—	Econoline	101691G-A	**3Z848**
Floor	60 in	36 in	24 in	23 in	36 in	24 in	12 in x 24 in	13 in x 35 in	11 in x 17 in	ALC	40403	**53RJ25**
	60 in	48 in	24 in	23 in	48 in	24 in	12 in x 24 in	13 in x 47 in	11 in x 17 in	ALC	40411	**53RJ26**
	60 in	60 in	24 in	23 in	60 in	24 in	12 in x 24 in	13 in x 59 in	11 in x 17 in	ALC	40413	**53RJ27**
	63 in	39 in	25 in	23 in	36 in	24 in	12 in x 24 in	36 in x 13 in	17 in x 11 in	Econoline	101694G-A	**3Z850**
	65 in	46 in	54 in	23 in	42 in	24 in	12 in x 24 in	42 in x 24 in	17 in x 11 in	Econoline	101696G-A	**3Z887**
	67 in	48 in	35 in	23 in	48 in	24 in	12 in x 24 in	15 in X 47 in	20 in X 22 in	Allsource	41500	**53CV99**
	70 in	52 in	47 in	35 in	44 in	34 in	30 in x 15 in	29 in x 38 in	—	Allsource	41800	**48ME53**
	72 ½ in	71 in	55 in	33 in	46 in	49 in	30 in x 15 in	29 in x 38 in	—	Allsource	41200	**48ME54**
	82 in	44 in	74 in	32 in	40 in	40 in	12 in x 24 in	40 in x 40 in	20 in x 30 in	Econoline	101698G-A	**3Z947**
	92 in	65 in	86 in	40 in	60 in	48 in	12 in x 24 in	60 in x 48 in	20 in x 30 in	Econoline	101701G-A	**4NFU2**
	94 in	52 in	90 in	40 in	48 in	48 in	12 in x 24 in	48 in x 48 in	20 in x 30 in	Econoline	101699G-A	**4NFU3**
LDPE Polymer Construction												
Benchtop	21 in	24 in	19 in	12 in	22 in	18 in	16 in x 20 in	18 in x 14½ in	—	ALC	40389	**15E777**
	28 in	31 in	21 in	27 in	30 in	20 in	27 in x 15 in	15 in x 27 in	—	ALC	40390	**15E778**
Floor	58 in	38 in	24 in	23 in	35 in	23 in	33 in x 15 in	16 in x 33 in	—	ALC	40391	**15E779**

Description	For Use With	Brand	Item No.
Accessories for Cabinets			
Abrasive Strainer, Standard	Abrasive Blast Cabinets and Blasters	ALC	**15E806**
Abrasive Strainer, Fine		ALC	**15E807**
Funnel Strainer		ALC	**15E808**
Foot Pedal Kit	15E777, 15E778, 15E779	ALC	**15E787**
Economy Light Kit		ALC	**15E785**
Premium Light Kit	53RJ25, 53RJ26, 53RJ27	ALC	**15E786**
Blasting Basket	Abrasive Blast Cabinets	ALC	**15E809**
Blasting Tray		ALC	**15E810**
Gun Mounting Bracket for Siphon-Feed Cabinets	Siphon-Feed Cabinets	Econoline	**3JR94**
Wheel Roller	Abrasive Blast Cabinets	Econoline	**4NFU5**
Parts Tray, 16 in x 8 in		Econoline	**4NFU6**
Parts Basket, 8 in x 8 in		Econoline	**4NFU7**
20" Dia. Turntable, 2,000 lb lb. Capacity		Econoline	**3JR96**
26" Dia. Turntable, 2,000 lb lb. Capacity		Econoline	**3JR95**
Automatic Tumble Basket Kit		Econoline	**4NFU4**
LED Light Kit, 30 in x 11 in x 3 in For Use With ALC Abrasive Blast Cabinets	ALC Abrasive Blast Cabinets	ALC	**448M05**
LED Light Kit, 52 in x 11 in x 3 in For Use With ALC Abrasive Blast Cabinets		ALC	**448M06**
Replacement Parts			
Window Underlay, Pkg. of 5	15E778, 448M07, 448M08, 448M09, 53RJ25, 53RJ26, 53RJ27	ALC	**15E781**
Window Underlay, Pkg. of 5	15E779	ALC	**15E782**
Window Underlay, Pkg. of 1	15E777	ALC	**15E780**
Window Underlay, 12 x 24", Pk. of 20	3JR97, 3Z848, 3Z887, 3Z947, 6YY21	Econoline	**3JT12**
Window Underlay, 24 x 120" Roll	3JR97, 3JR98, 3Z848, 3Z850, 3Z887, 3Z947, 6YY21	Econoline	**3JT13**
Window, 6 x 12 in"	3Z848	Econoline	**3JT15**
Window, 12 x 24 in"	3JR97, 3Z850, 3Z887, 3Z947, 6YY21	Econoline	**3JT14**
Window, 24 x 24 in"	3JR98	Econoline	**4KR23**

Description	For Use With	Brand	Item No.
Gloves, 24"L, 1 Pair	3Z850, 3Z887, 6YY21, 6YY23	Econoline	**3JT05**
Gloves, Seamless, 24"L, 1 Pair	3JR97, 3JR98, 6YY23	Econoline	**4KR12**
Gloves, 33"L, 1 Pair	3Z947	Econoline	**3JT06**
Lampshield, 6.875 x 12.5 in"	3Z848	Econoline	**3JT11**
Lampshield, 12 in x 25.5 in"	3JR97, 3JR98, 3Z850, 3Z887, 3Z947, 6YY21	Econoline	**3JT10**
Filter Cartridge, 9 X 24 in	6YY21	Econoline	**6YY46**
Siphon-Feed			
Economy Siphon Gun, Aluminum Nozzle	40389, 40390	ALC	**15E783**
12 cfm CFM Gun Assembly	3Z848, 3Z850, 3Z887, 3Z947	Econoline	**3JT01**
25 cfm CFM Gun Assembly		Econoline	**3JT02**
45 cfm CFM Gun Assembly		Econoline	**4NFU8**
¼" I.D. Nozzle 12 CFM	3JT01	Econoline	**3JT08**
12 CFM Air Jet		Econoline	**3JT04**
5⁄16" I.D. Nozzle 25 CFM	3JT02	Econoline	**3JT07**
25 CFM Air Jet		Econoline	**3JT03**
Clear Abrasive Hose, ⅝" x 5 ft.	3Z848, 3Z850, 3Z887, 3Z947	Econoline	**3JT09**
Pressure-Feed			
¾" I.D. Nozzle Holder	3JR97, 3JR98, 6YY21	Econoline	**4KR14**
1⁄16" I.D. Nozzle		Econoline	**4KR19**
⅛" I.D. Nozzle		Econoline	**4KR15**
3⁄16" I.D. Nozzle		Econoline	**4KR16**
¼" I.D. Nozzle		Econoline	**4KR17**
5⁄16" I.D. Nozzle		Econoline	**4KR18**
Abrasive Hose, 8 ft.		Econoline	**4KR13**
Media Valve, Aluminum	3JR97	Econoline	**4KR21**
Diaphragm, Media Valve		Econoline	**4KR22**
Gloves, 24" X 6"	53RJ25, 53RJ26, 53RJ27	ALC	**53RJ30**
Window Underlay, 12 in X 24 in, Pkg. 50		ALC	**53RJ31**
Window Underlay Roll, 24 in X 120 in, Pkg. 1	ALC Abrasive Blast Cabinets	ALC	**53RJ32**

ECONOLINE ALC

Dust Collectors

Dust collection systems remove dust and dirt particles from the air, and return filtered air to the room.

Bag-Style Filter—Bag filters can be laundered and reused. Chip capacity is 90% @ 2.5 microns.

Cartridge-Style Filter—99.98% efficient cartridge-style filters remove particles from the air as small as 0.5 microns.

Bag-Style Filter 4KR11

Cartridge-Style Filter 6YY22

Max. Flow (cfm)	Chip Cap. (microns)	dBA	Hose Dia. (in.)	Max. Hose Length (ft.)	Voltage	Amps AC	Includes	Brand	Mfr. Model	Item No.
Bag-Style Filter										
100 cfm	90% @ 2.5	90 dBA	2 ½ in	5 ft	115V AC	8 A	100 cfm Motor, 8 ft Electric Cord Plugs into Cabinet Light Box, Self-Cleaning Bag Style Filter	Econoline	201768G-B5	**3JR93**
112 cfm	50 micron	80 to 85 dBA	2 ¼ in	6 ft	120V AC	11 A	Hose and Filter	ALC	40412	**53RJ28**
150 cfm	90% @ 2.5	87 dBA	2 ½ in	5 ft	115V AC	8 A	150 cfm Motor, 8 ft Electric Cord Plugs into Cabinet Light Box, Self-Cleaning Bag Style Filter	Econoline	202672-A	**4KR11**
850 cfm	90% @ 2.5	83 dBA	5 in	10 ft	230V AC	14.5 A	(30) Tubular 50 micron Filter Bags, 5 in dia, 10 ft Long Hose, Gauge, Moisture Filter, Regulator	Econoline	101852WD-A	**40HY73**
Bag-Style Filter Accessories										
50 micron Micron Replacement Filter for 53RJ28								ALC	40267	**53RJ29**
Replacement Filter, Use with 3JR93 and 4KR11								Econoline	414436	**3JR99**
Cartridge-Style Filter										
400 cfm	99.9% @0.5	86 dBA	4 in	10 ft	115V AC	8 A	4 in dia, 10 ft Long Hose, 400 cfm Motor, 5 micron Cartridge Filter, Air-Actuated Vibrator, Trap Door	Econoline	101716GYG-4C	**6YY22**
600 cfm	99.9% @ 0.5	85 dBA	4 in	10 ft	115V AC	11.8 A	4 in dia, 10 ft Long Hose, 5 micron Cartridge Filter, 600 cfm Motor, Air-Actuated Vibrator, Trap Door	Econoline	101716GY-6C	**40HY74**

ALC WESTWARD ALLSOURCE

Portable Abrasive Blasters

For removing rust, scale, paint, and dirt from metals, wood, brick, and stone.

Note: Additional ALC accessories and parts are available on Grainger.com®.

Siphon-Feed—Westward model includes blast gun and 3/16" ceramic nozzle. 10Z912 has a steel hopper with pull handle and 6" wheels for easy maneuvering around the jobsite. 15E765 and 15E766 have steel construction and can be used with most dry abrasives. 15E766 includes sturdy steel cart with two 6" wheels.

Pressure-Feed—All Westward units include an air line filter and pressure gage to control airflow. 10Z914 and 10Z915 have a recessed top for filling of blast media. 15E742 and 15E745 have powder-coated steel construction with a manual pull-up tank closure and deadman handle design; can be used with most dry abrasives. Include hood.

Siphon Gun Blaster Kit—Simple blaster is ideal for small projects.

50 lb. Capacity 15E765

45 lb. Capacity 10Z913

80 lb. Capacity 10Z914

Siphon Gun Blast Kit 15E790

Hopper Cap. (lb.)	Air Pressure (psi)	CFM Req. @ 80 psi (CFM @ Nozzle Size)	Includes	Hose Length	Brand	Mfr. Model	Item No.
Siphon-Feed							
50 lb	80 to 110	7 cfm	¼ in Nozzle, 13/64 in Nozzle, 5/16 in Nozzle, Siphon Gun	7 ft	ALC	40017	**15E765**
90 lb	60 to 125	6.2 cfm	Blast Gun	10 ft	Westward	—	**10Z912**
	80 to 110	7 cfm	¼ in Nozzle, 13/64 in Nozzle, 5/16 in Nozzle	10 ft	ALC	40018	**15E766**
Pressure-Feed							
45 lb	60 to 125	9 cfm	Control Valve Gun, Filling Funnel, Protective Hood	8 ft	Westward	—	**10Z913**
65 lb	80 to 125	7 cfm	(2) ⅛ in Nozzle, 3/32 in Nozzle, Blast Hood	10 ft	ALC	40001	**15E742** *
80 lb	65 to 125	9 cfm	Blast Gun	8 ft	Westward	—	**10Z914**
100 lb	80 to 125	7 cfm	⅛ in and 3/32 in Ceramic Nozzles	8 ft	Allsource	41600	**15E745**
125 lb	65 to 125	9 cfm	Blast Gun	8 ft	Westward	—	**10Z915**
150 lb	80 to 125	15 cfm	(2) ⅛ in Nozzle, (2) 5/32 in Nozzle, Blast Hood	15 ft	ALC	40004	**15E743** *
250 lb	80 to 125	15 cfm	(2) ⅛ in Nozzle, (3) 5/32 in Nozzle, 25 ft Blast Hose, Blast Hood with Bump Cap	25 ft	ALC	40005	**15E744** *
Siphon Gun Blast Kits							
—	40 to 125	6.2 cfm	10 ft Hose, 3/16 in Ceramic Nozzle, Siphon Gun, Steel Pick Up Tube and Hex Wrench	—	Westward	—	**10Z911**
	80 to 125	7 cfm	13/64 in and ¼ in Steel Nozzles	—	Allsource	4001544	**15E790**
	80 to 125	7 cfm	13/64 in and ¼ in Steel Nozzels	—	ALC	40015	**15E789**
Blast Guns And Nozzles							
Blast Gun, Use With 15E765, 15E766, 15E789					ALC	40153	**15E774**
Blast Gun, Pressure-Feed, Use With 10Z913, 10Z914 & 10Z915					Westward	10Z920	**10Z920**
Blast Gun, Siphon-Feed, Use With 10Z912					Westward	10Z917	**10Z917**
Blast Nozzle, 3/32", Use With 10Z920					Westward	10Z921	**10Z921**
Blast Nozzle, 7/64", Use With 10Z920					Westward	10Z922	**10Z922**
Blast Nozzle, ⅛", Use With 10Z920					Westward	10Z923	**10Z923**
Blast Nozzle, 9/64", Use With 10Z920					Westward	10Z924	**10Z924**
Blast Nozzle Kit, 3/16", Ceramic, Use With 10Z917					Westward	10Z918	**10Z918**
Blast Nozzle Kit, 3/16", Tungsten Carbide, Use With 10Z917					Westward	10Z919	**10Z919**

** ASME certified.*

10 lb. Capacity 6YY25

100 lb. Capacity 6YY24

ECONOLINE

Portable Soda Blasters

Environmentally friendly units use soda media to remove coatings including carbon, paint, dirt, mold, oil, soot, and graffiti from almost any surface; no advance cleaning or surface masking is necessary. Water filter, pressure regulator, and control valve system included. ASME coded. 6YY25 is lightweight with a carrying handle. 10 lb. of soda provides up to 30 min. of blast time. Includes 5-ft. hose and ⅛" ceramic nozzle. 6YY24 is wheel-mounted and ready for instant hook-up to air supply. Includes 25-ft. hose, ⅛" ceramic nozzle, air safety lockout, and blast hood with cap.

Hopper Cap. (lb.)	Air Pressure (psi)	Min. CFM @ 80 PSI	Mfr. Model	Item No.
Portable Soda Blasters				
10 lb	40 to 125	12 cfm	101825G-A	**6YY25**
100 lb	25 to 125	18 cfm	101826G-A	**6YY24**
Accessories				
Kit w/4 Nozzles for Use with 6YY25			201247G-A	**6YY45**
Kit w/3 Restrictors and 2 Control Box Hoses, 5 Nozzles for Use with 6YY24			201244G-A	**6YY47**

	Glass Beads	Crushed Glass	Glass	Al. Ox./ Glass Mix	Aluminum Oxide	Silicon Carbide	Steel Shot	Stainless Steel Shot	Steel Grit	Garnet	Coal Slag	Corn Cob	Walnut Shells	Soda
Applications														
Finishing	X	X	X	X	X	X	X	X						
Peening	X	X	X				X	X						
Etching				X	X						X			
Deburring	X*	X*	X*	X	X	X								
Cleaning	X	X	X	X	X	X				X	X	X	X	X
Rust Removal	X**	X**	X**	X	X	X			X	X	X	X	X**	X
Paint Removal	X	X	X	X	X	X		X	X	X	X	X	X	X
Media Typically Used On														
Steel	X	X	X	X	X	X	X		X	X	X	X	X	x
Stainless Steel	X	X	X	X	X	X		X		X†		X	X	X
Aluminum	X	X	X	X	X					X†		X	X	X
Plastic			X									X	X	X
Wood			X									X	X	X
Specifications														
Working Speed	Med.	Med.	Med.	Med. High	High	Very High				High	High	High	High	High
Blast Pressure	40-80	80-150	20-55	40-80	60-100	20-90	80-150	80-150	80-150	90-110	60-80	60-150	60-150	50-150
Hardness (MOH)	5.5	5.5	5.5	5.5/9	9	9	8	8	8	7.5-8.5	6-7	4.5	3.5	2.5
Shape	Spherical	Angular	Spherical	Spherical and Angular	Angular	Angular	Spherical	Spherical	Angular	Granules	Angular	Angular	Angular	Angular
Dust Level	Low	Low	Low	Med. High	High	Very High				Med. High	Low	Med.	Med.	High
Probability of Metal Removal	Very Low	Very Low	Very Low	Med.	Med. High	High				High	Med. High	Very Low	Very Low	Very Low
Recyclable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No

*** Soft metals and plastic. ** Surface rust. † 80 and 100 grit.***

Potters BARTON

Blast Media

Glass Beads
2W580

Aluminum Oxide
6YY34

Silicone Carbide
6YY26

Coal Slag
6YY28

Soda
6YY30

Corn Cob
2MVR4

Description	Media Grit	Nominal Dia. Range	Micron Range	US Sieve	Container Size	Brand	Item No.
Glass Beads, Extra Fine	Not Rated	0.0017 in to 0.0035 in	45 to 90	170-325	53 lb	Potters	**6ZC13**
Glass Beads, Fine	Not Rated	0.0035 in to 0.0059 in	90 to 150	100-170	53 lb	Potters	**2W766**
Glass Beads, Medium	Not Rated	0.0041 in to 0.0083 in	106 to 212	70-140	53 lb	Potters	**2W580**
Glass Beads, Coarse	Not Rated	0.0049 in to 0.0098 in	125 to 250	60-120	53 lb	Potters	**2W765**
Glass Beads, Extra Coarse	Not Rated	0.0083 in to 0.0117 in	212 to 300	50-70	53 lb	Potters	**6ZC14**
	80	0.0116 in to 0.0279 in	297 to 710	50-80	50 lb	—	**35KJ36**
Glass Beads/Aluminum Oxide, Medium	Not Rated	0.0041 in to 0.0083 in	106 to 212	70-140	53 lb	Potters	**5W022** *
Ground Glass	Not Rated	0.0165 in to 0.0278 in	425 to 710	25-40	53 lb	Potters	**6ZC15**
Crushed Glass	Not Rated	0.0165 in to 0.0070 in	212 to 425	40-80	50 lb	—	**53YK16**
Aluminum Oxide	36	0.0117 in to 0.0278 in	297 to 710	25	50 lb	—	**6YY34**
	46	0.0083 in to 0.0165 in	212 to 425	40	50 lb	—	**6YY35**
	54	0.0070 in to 0.0139 in	180 to 355	45	50 lb	—	**6YY36**
	60	0.0059 in to 0.0117 in	150 to 297	50	50 lb	—	**6YY37**
	80	0.0041 in to 0.0083 in	106 to 212	80	50 lb	—	**6YY38**
	100	0.0025 in to 0.0059 in	63 to 150	100	50 lb	—	**6YY39**
	120	0.0021 in to 0.0049 in	53 to 125	120	50 lb	—	**6YY40**
	150	0.0017 in to 0.0041 in	45 to 106	140	50 lb	—	**6YY41**
	180	0.0021 in to 0.0035 in	53 to 90	170	50 lb	—	**6YY42**
	220	0.0017 in to 0.0290 in	45 to 75	200	50 lb	—	**6YY43**
	Not Rated	0.0021 in to 0.0035 in	53 to 90	50	1 lb	—	**53YK21**
	Not Rated	0.0021 in to 0.0035 in	53 to 90	50	10 lb	—	**53YK22**
	Not Rated	0.0021 in to 0.0035 in	53 to 90	50	50 lb	—	**53YK23**
Garnet	36	0.0165 in to 0.0278 in	425 to 1000	36	55 lb	Barton	**36UU71**
	80	0.0070 in to 0.0139 in	150 to 297	80	55 lb	Barton	**36UU69**
	80	0.0070 in to 0.0139 in	150 to 297	80	55 lb	—	**402F54**
	100	0.0049 in to 0.0098 in	125 to 250	100	55 lb	—	**402F55**
	36	0.0165 in to 0.0278 in	425 to 1000	36	55 lb	—	**402F56**
	60	0.0117 in to 0.0278 in	297 to 710	30-60	55 lb	—	**402F57**
Silicon Carbide	120	0.0021 in to 0.0049 in	53 to 125	120	50 lb	—	**6YY26**
	220	0.0017 in to 0.0029 in	45 to 75	200	50 lb	—	**6YY27**
Coal Slag	36	0.0167 in to 0.0334 in	425 to 850	30	80 lb	—	**6YY28**
	24	0.0167 in to 0.0669 in	425 to 1700	20	80 lb	—	**6YY29**
	Not Rated	0.0117 in to 0.0278 in	212 to 425	30-60	80 lb	—	**53YK20**
Soda	120	0.0035 in to 0.0059 in	90 to 150	200	50 lb	—	**6YY30**
	80	0.0017 in to 0.0098 in	45 to 250	120	50 lb	—	**6YY31**
Steel Grit	Not Rated	0.0117 in to 0.0278 in	297 to 710	50	25 lb	—	**53YK11**
	Not Rated	0.0236 in to 0.0551 in	425 to 1000	25	25 lb	—	**53YK10**
Steel Shot	Not Rated	0.0236 in to 0.0551 in	297 to 710	230	25 lb	—	**53YK09**
	Not Rated	0.0117 in to 0.0278 in	212 to 425	110	25 lb	—	**53YK08**
Stainless Steel Shot	Not Rated	0.0083 in to 0.0165 in	125 to 250	60-140	25 lb	—	**53YK15**
	Not Rated	0.0117 in to 0.0278 in	212 to 300	40-70	25 lb	—	**53YK14**
	Not Rated	0.0117 in to 0.0278 in	212 to 425	35-50	25 lb	—	**53YK13**
	Not Rated	0.0236 in to 0.0551 in	297 to 710	20-40	25 lb	—	**53YK12**
Corn Cob	20	0.0236 in to 0.0551 in	600 to 1400	18	40 lb	—	**2MVR4**
	40	0.0167 in to 0.0393 in	425 to 1000	30	40 lb	—	**2MVR5**
Walnut Shells	Not Rated	0.0160 in to 0.0330 in	420 to 841	20-40	50 lb	—	**53YK19**
	Not Rated	0.0330 in to 0.0660 in	841 to 1680	12-20	50 lb	—	**53YK18**
	Not Rated	0.0660 in to 0.0940 in	1680 to 2380	8-12	50 lb	—	**53YK17**

*** Size is for glass beads only.***

For more welding gloves, see page 1722.
Replacement Filters, Plates, and Magnifying Lenses are available on Grainger.com.

Welding Gloves

- Kevlar® stitching

Gauntlet cuff provides additional wrist protection.

TIG—Thinner leather provides superior feel and dexterity with light burn, spark, and heat resistance.

49CE30

33RN23

33RN19

Application	Leather Palm Material	Back Material	Lining Material	Thumb Style	Size	Length	Color	Item No.
Lincoln Electric								
MIG, Stick	Cowhide	Leather	Cotton, Foam	Wing	L	13 ½ in	Gray	**49CE30**
	Cowhide	Leather	Red Jersey	Wing	XL	13 ¾ in	Black/Red	**49CE32**
Miller Electric								
—	Cowhide	Spandex(R)	Cotton, Foam	Reinforced	M	9 ¼ in	White/Blue/Black	**33RN23**
	Cowhide	Spandex(R)	Cotton, Foam	Reinforced	L	9 ¼ in	White/Blue/Black	**33RN24**
	Cowhide	Spandex(R)	Cotton, Foam	Reinforced	XL	9 ¼ in	White/Blue/Black	**33RN25**
TIG	Cowhide	Cowhide, Goatskin	Cotton, Fleece	Wing	L	13 in	Blue/White	**33RN21**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	M	12 in	Blue/White	**33RN16**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	L	12 in	Blue/White	**33RN17**
	Goatskin	Goatskin	Cotton, Fleece	Keystone	XL	12 in	Blue/White	**33RN18**
	Goatskin	Cowhide, Goatskin	Cotton, Fleece	Wing	M	13 in	Blue/White	**33RN20**
	Goatskin	Cowhide, Goatskin	Cotton, Fleece	Wing	XL	13 in	Blue/White	**33RN22**
	Goatskin	Cowhide, Goatskin	Cotton, Fleece	Wing	S	13 in	Blue/White	**33RN19**

Welding Helmets with Auto-Darkening Filters

- Auto On/Off power control
- Sensitivity and delay controls

All include: magnifying lens holder, (5) outside and (2) inside cover lenses. Digital Performance, Digital Elite, Digital Infinity, and T94™ Series also include lithium batteries and a helmet bag. All meet ANSI and CSA standards; except T94 Series does not meet CSA.

Classic Series—Feature 2 arc sensors, Auto On/Off, and Sensitivity control button. Battery operated with solar assist, except 38VU59 is solar only.

Digital Performance and Digital Elite Series—All feature easy-to-use digital controls. Battery powered with solar assist. Digital Performance series have 3 arc sensors and 3 modes: Cut, Weld, and Grind. Digital Elite Series performs with 4 arc sensors and 4 digital modes: Weld, Cut, Grind, and X-mode.

Digital Infinity™ Series—Features a large viewing area and 4 modes: Weld, Cut, Grind, and X-mode. X-mode uses electromagnetic sensors to help you see see your arc, even in bright sunlight or if sensors are blocked. InfoTrack™ tracks arc time, and gives you the ability to set an alarm or timer.

T94™ Series—Feature 4 arc sensors. ClearLight™ high-definition optics and X-Mode™ feature help you see the arc in even difficult conditions, such as in bright sunlight, or if sensors are blocked. The cover lens is simple and easy to change out, to help reduce downtime.

Weld-Mask™—Goggles provide auto-darkening in compact configuration. Includes 2 outside cover lenses, 2 sensors, antifog film, head-covering, and carrying case.

Digital Elite
34C385

T94™
54TA13

Series	Color	Graphics	Welding Shade Designation	TIG AMP Rating	Includes Electromagnetic Sensor	Viewing Area	Item No.
Welding Helmets							
Classic	Black	—	W8/13	5 A	Yes	5.88 sq in	**784WH0**
	Black	—	W10	20 A	No	3.74 in x 1.38 in	**38VU59**
Digital Performance	Black	—	W8 to W13	5 A	No	3.82 in x 1.85 in	**34C373**
	Black/Blue	Blue Rage	W8 to W13	5 A	No	3.82 in x 1.85 in	**34C378**
Digital Elite	Black	—	W8 to W13	5 A	Yes	3.82 in x 2.44 in	**34C380**
	Blue	Stars And Stripes	W8 to W13	5 A	Yes	3.82 in x 2.44 in	**34C385**
	Blue	Vintage Roadster	W8 to W13	5 A	Yes	3.82 in x 2.44 in	**38XK47**
	Black/Orange	Inferno	W8 to W13	5 A	Yes	3.82 in x 2.44 in	**34C386**
	Black	Lucky'S Speed Shop	W8 to W13	5 A	Yes	3.82 in x 2.44 in	**34C383**
Digital Infinity	Black	—	W8 to W13	5 A	Yes	6.70 in x 6.70 in	**40CN04**
	Black	Black Ops	W8 to W13	5 A	Yes	6.70 in x 6.70 in	**48VF66**
	Black	Departed	W8 to W13	5 A	Yes	6.70 in x 6.70 in	**40CN02**
	Blue/Red/White	Stars And Stripes	W8 to W13	5 A	Yes	6.70 in x 6.70 in	**40CN05**
T94	Silver	—	W3; W5 to W8; W8 to W13	3 A	Yes	3.81 in x 2.62 in	**54TA12**
	Silver	—	W3; W5 to W8; W8 to W13	3 A	Yes	3.81 in x 2.62 in	**54TA13**
Weld Mask	Compact Design, Face Shield And Head Coverage, Lightweight Design, Tight Seal						**38VU61**

Speedglas
56FE33

Speedglas
100
6DNC9

Speedglas™
9000
No.53ME09

Speedglas™
9100X
4CWG9

9100 FX
No.31CZ99

Welding Helmets with Auto-Darkening Filters

- Switching speed: 1/10,000 sec.

Speedglas™ 100 Series—Locks in light state grinding mode 3 when grinding. Delay function allows user to set opening time. With built-in magnifying lens holders. For most Stick, MIG and higher amp TIG and arc welding processes.

Speedglas™ 9000 Series—The slim design features precision optics and a comfortable suspension. Use in most MIG/MAG, Plasma, Stick, and TIG welding processes.

Speedglas™ 9100 Series—Feature a locking up-and-down pivot, side exhaust vents, and side windows. Sensitivity adjustment allows use with all Stick, MIG and TIG, welding processes with grinding torch modes. 4CWG9 has ratchet headgear.

Description	Color	Lens Shade	Viewing Area	TIG AMP Rating	Item No.
Speedglas™	Black	8-14	2.80 in x 4.30 in	1 A	**56FE33**
	Black	8-13	2.80 in x 4.30 in	1 A	**56FE35**
	Black	8-13	2.80 in x 4.30 in	1 A	**56FE37**
Speedglas™ 100	Black	8-12	1.73 in x 3.66 in	10 A	**6DNC9**
Speedglas™ 9000	Black/Silver	8-12	2.13 in x 4.09 in	1 A	**53ME09**
Speedglas™ 9100	Black	5, 8-13	2.80 in x 4.20 in	1 A	**48WL47**
Speedglas™ 9100X	Black	5, 8-13	2.10 in x 4.20 in	1 A	**4CWG9**
9100 FX	Black	5, 8-13	8 in x 4.25 in	1 A	**31CZ99**
Accessories					
Auto Darkening Filter, 2.8 in x 4.2 in, 5, 8 to 13 filter					**48WL45**
Polycarbonate Protection Plate, 4.0 in x 6.0 in, For Use With Mfr. No. 06-0600-00Sw					**4CWH2**

Solar
33N556

Professional
44R230

Professional Digital
44R235

725S Series
40P666

3350 Series
54EE87

2450 Series
54EE96

weldcap®
44YT88

e650 Series
35T250

Panoramaxx
401R73

NexGen HSL100
2KUV3

Auto-Darkening Welding Helmets

WESTWARD

Ratchet headgear with removable sweatband. Include extra lens covers.

Solar—Provide UV/IR protection up to shade DIN 16.

Professional—Feature external shade control with grind function.

Professional Digital—Feature digital control display. 33N557 has 4 control buttons. Headgear can hold and lock. Internal slots hold magnify lens.

LINCOLN ELECTRIC

725S Series—Cheater lens-capable lightweight thermoplastic helmet features a Grind mode and has 2 independent arc sensors to help avoid blind spots. With continuously variable external shade control. Solar operated with battery assist. Meets ANSI Z87.1, CSA.

3350 Series—4C technology provides a large viewing area, and 1/1/1/1 Optical Clarity to help improve visibility and reduce eye strain. Solar powered.

2450 Series—With a 28% larger field of view compared to similar helmets in their class, and 4C Lens Technology, the 2450 Series helmets help improve visibility, reduce eye strain, and provide real color view. With 1/1/1/1 Optical Clarity. Solar operated. 54EE97 has 3 modes (welding, cutting, and grinding).

OPTREL

weldcap®—Comfortable lightweight cap has manual shade level adjustment and offers more than twice the field of view of most standard industry welding helmets. Battery operated. Meets ANSI Z87.1, AS/NZS 1337/1338.

vegaview 2.5—Improves your vision with more than 4-times lighter view in Light state and in Grind mode. Manual shade level adjustment. Solar powered with battery assist. Meets ANSI Z87.1.

e650 Series—Includes Grind Mode, continuously variable sensitivity control, and opening delay function, as well as PAPR respiratory protection. All functions can be accessed from outside the helmet. Solar operated with battery assist.

e684 Series—Special cooling design with an HD viewing lens and adaptive auto-adjusting shade level. Includes PAPR respiratory protection. Battery operated. Meets CSA Z94.3 standards.

panoramaxx—Comfortable helmet helps you improve awareness of your surroundings, with a panoramic faceshield that offers a 6-times larger field of vision than standard welding helmets. A special UV/IR filter provides truer color rendering. Solar operated, with battery assist.

JACKSON SAFETY

NexGen HSL100—Features 3 modes: Weld, Torch, and Grind. With sensitivity and delay adjustments that can be made with easy-to-use digital controls. Includes a built-in mag lens holder. Solar operated with battery assist.

HSL 100—Ultra light weight helmet is made to give you an unobstructed view without lifting the hood. Features a variable Auto-Darkening Filter, with 4 independent sensors and easy-to-use digital controls that allow you to make sensitivity and delay adjustments for different tasks and durations.

Description	Color	Graphics	Lens Shade	TIG AMP Rating	Electromagnetic Sensor	Viewing Area	Switching Speed	Item No.
Westward								
Solar	Black	—	10	35 A	No	3.82 in x 1.85 in	1⁄4000 sec.	**4UZY8**
	Black	—	9-13	5 A	No	3.82 in x 1.73 in	1⁄16000 sec	**33N556**
Professional	Black	—	9-13	5 A	No	3.82 in x 1.85 in	1⁄25000 sec	**6VKF5**
	Gray	—	6-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**44R225**
	Graphics	Blue/White	6-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**44R230**
	Black	Black	6-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**33N557**
Professional Digital	Black	—	5-13	2 A	No	3.82 in x 2.44 in	1⁄25000 sec	**33N558**
	Graphics	Black/Red/White	5-13	2 A	No	3.82 in x 2.44 in	1⁄25000 sec	**44R235**
Lincoln Electric								
725S Series	Tan	Lone Star	7-13	5 A	No	3.82 in x 1.73 in	1⁄25000 sec	**49CE28**
	Black/Red/White	Grunge	7-13	5 A	No	3.82 in x 1.73 in	1⁄25000 sec	**40P666**
	Red/Tan	Blaze	7-13	5 A	No	3.82 in x 1.73 in	1⁄25000 sec	**49CE29**
	Red/Tan	Bloodshot	7-13	5 A	No	3.82 in x 1.73 in	1⁄25000 sec	**40P667**
3350 Series	Blue/Red/White	American Flag	5-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**54EE89**
	Black/Red/Silver	Twisted Metal	5-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**54EE90**
	Black	—	5-13	2 A	No	3.74 in x 3.34 in	1⁄25000 sec	**54EE87**
2450D Series	Black	—	4, 5-13	2 A	No	3.82 in x 2.44 in	1⁄25000 sec	**54EE97**
2450 Series	Black	—	5-13	2 A	No	3.82 in x 2.44 in	1⁄25000 sec	**54EE96**
Optrel								
weldcap®	Black/Green	—	9-12	—	No	3.94 in x 1.97 in	4⁄25 sec	**44YT88**
vegaview 2.5	Black	—	8-12	—	No	3.94 in x 1.97 in	1⁄10 sec	**48TR37**
e650 Series	Black	—	9-13	—	No	3.94 in x 1.97 in	7⁄40 sec	**35T250**
e684 Series	Silver	—	5-13	—	No	3.94 in x 1.97 in	17⁄100 sec	**44YT86**
Panoramaxx	Black	Black/Green/White	5-12	1 A	No	2.30 in x 6.30 in	9⁄100 sec	**401R73**
Jackson Safety								
NexGen HSL100	Black	—	9-13	5 A	No	3.8 in x 2.35 in	67⁄1000000 sec	**2KUV3**
HSL 100	Black	—	9-13	5 A	No	3.94 in x 2.36 in	1⁄10000 sec	**54JM14**
Auto Darkening Filter For Use With Jackson Safety WH10 HSL 100 or HLX 100 Welding Helmets	—	—	—	—	—	—	—	**3MNX9**
Auto Darkening Filter For Use With Jackson Safety WH10 HSL 100 or HLX 100 Welding Helmets								**3MNX9**

Find the Replacement Filters, Plates, and Magnifying Lenses you need at **Grainger.com®.**

Passive Welding Helmets and Faceshields

WELDING HELMETS

Flip Up Front

Helmets have an impact-resistant straight top that extends well over the head for added protection. Adjustable ratchet suspension.

Confined Space Pro

Super Kool helmet coating resists weld spatter and keeps helmet cooler than uncoated helmets. Proprietary lens retention system allows easy filter, cover, and protective plate loading. Ratchet suspension.

Description	Color	Lens Shade	Viewing Area	Brand	Item No.
Welding Helmets					
—	Black	10	4.33 in x 3.54 in	Westward	**44R224**
Flip Up Front	Black	10	3.86 in x 2.09 in	Westward	**4UZZ3**
Confined Space Pro	Gray	10	2 in x 4 ¼ in	Sellstrom	**49H757**
Super Slim™ Fixed	Black	10	2 in x 4 ¼ in	Sellstrom	**4T543**
Super Slim™	Silver	10	4 ½ in x 5 ¼ in	Sellstrom	**4T542**
Super Kool	Silver	10	2 in x 4 ¼ in	Sellstrom	**4T541**
Super Slim™ 280	Silver	10	2 in x 4 ¼ in	Sellstrom	**45FN92**
Tigerhood Classic	Black	10	4.25 in x 2 in	Fibre-Metal	**10C434**
	Gray	10	4.25 in x 2.00 in	Fibre-Metal	**2XKX9**
	Gray	10	4.25 in x 2.00 in	Fibre-Metal	**2XKX8**
Pipeliner®	White	10	2 in x 4 in	Fibre-Metal	**2XKY1**
W10 HSL 2	Black	10	2 in x 4.25 in	Jackson Safety	**2KUV9**
W10 HSL 100	Black	10	4.5 in x 5.25 in	Jackson Safety	**2KUV7**
Welding Hood					
Hood w/Filter Plates	Gray	10	2 in x 4 ¼ in	Sellstrom	**6FKT2**
Infra-Guard Faceshields					
Green, 8 inH x 12 inW				Sellstrom	**1N785**
Green, 7 inH x 19 inW				Sellstrom	**1N786**

Super Slim

Super Tuff™ nylon helmets are lighter than fiberglass. Drop-down ratchet headgear. Super Kool™ helmet has coating that makes helmet cooler, and sheds spatter without burning.

Tigerhood

Seamless-shell thermoplastic helmet has an extended throat to help block fumes, smoke, and sparks; reducing the risk of burn. With lift-front lens and 3C headgear. Installed shade 10 filter lens. 10C434 and 10C432 have telescoping lid. 2XKX9 includes loop for attaching hard hat.

Pipeliner

Fiberglass with neoprene strap headband.

W10 Series

Passive welding helmets offer a clear, unobstructed view of the weld puddle. Include polycarbonate filter. 2KUV9 has a flip front. ANSI Z87.1 and CSA Compliant.

WELDING HOOD

Leather hood with ratchet headgear is designed for tight or confined spaces. Cover and filter plates (included) are easy to load.

INFRA-GUARD FACESHIELDS

Protect user from infrared and ultraviolet rays during oxygen/acetylene welding and cutting operations. Ratchet headgear.

Super Slim
Super Kool
4T542

Tigerhood Classic
10C434

WH10 HSL 100
2KUV7

Welding Hood
6FKT2

Infra-Guard
1N785

Powered Air Purifying Respirator (PAPR) Systems and Respirators

POWERED AIR PURIFYING RESPIRATORS (PAPR)

NIOSH Certified, except 49WM68 and 32NC32. APF of 25.

Miller—Feature a lightweight, low-profile blower design with integrated load-bearing shoulder straps to help reduce fatigue, and a 9.22 sq. in. auto-darkening lens. Dual airflow speeds allow for user adjustment in varied work conditions. Audible and vibrating alarms indicate low battery and/or constricted airflow.

3M—Feature side shields that provide improved peripheral vision, and an auto-darkening visor plate.

LPR-100 HALF MASK RESPIRATORS

Low-profile design fits comfortably under a welding helmet without obstructing the user's view. Large exhaust valve eases breathing. Filter media maximizes efficiency in humid conditions, extending filter life. NIOSH Certified, APF of 10.

PAPR System
408M95

PAPR System
48WL48

Half-Mask Respirator
34C395

Half-Mask Respirator
36RC60

Description	Includes	Brand	Mfr. Model	Item No.
PAPR Systems	(2) Lithium Ion Batteries, (6) Prefilters, Battery Charger, Blower Assembly, Breathing Tube, Breathing Tube Cover, Comfortable Shoulder Straps, Flow Meter, HEPA Filter, Padded Belt, Spark Guard, T94i-R™ Helmet Assembly, Tool Bag	Miller Electric	264573	**408M95**
	(2) Lithium Ion Batteries, (6) Prefilters, Battery Charger, Blower Assembly, Breathing Tube, Breathing Tube Cover, Comfortable Shoulder Straps, Flow Meter, HEPA Filter, Padded Belt, Spark Guard, T94i-R™ Helmet Assembly, Tool Bag	Miller Electric	264575	**408M96**
	(2) Lithium Ion Batteries, (6) Prefilters, Battery Charger, Blower Assembly, Breathing Tube, Breathing Tube Cover, Comfortable Shoulder Straps, Flow Meter, HEPA Filter, Padded Belt, Spark Guard, T94i-R™ Helmet Assembly, Tool Bag	Miller Electric	261659	**49WM68**
	Auto Darkening Filter 9100X, Lithium Ion Battery, Side Windows, Speedglas Welding Helmet 9100-Air, Starter Kit, Storage Bag, Welding Cap, Wide Leather Belt	3M Speedglas	35-1101-30iSW	**48WL48**
PAPR Assembly with Breathing Tube	Blower Unit, Breathing Tube, Charger, Filter Cover, Flow Indicator, HE Particulate Filter, Leather Belt, Lithium Ion Battery, Prefilter, Spark Arrestor	3M	35-5401-01	**32NC32**
LPR-100 Half-Mask Respirators	S/M Respirator With P100 Filters	Miller Electric	ML00894	**34C395**
	M/L Respirator With P100 Filters	Miller Electric	ML00895	**36RC58**
	S/M Respirator With P100 Nuisance Level OV Relief Filters	Miller Electric	ML00994	**36RC59**
	M/L Respirator With P100 Nuisance Level OV Relief Filters	Miller Electric	ML00995	**36RC60**
Accessories				
	Battery Charger, For Use With 3M Adflo Powered Air Purifying Respirator, Adflo Respirator	3M	35-0099-08	**32NC26**
	Battery, For Use With 3M Adflo PAPR Systems	3M	35-1099-07	**32NC27**

Fume Extractors

EXTRACT-ALL

- Filters not included with all models; select primary filter pkg. based on application needs

Multistage filtration removes smoke, dust, solvent fumes, lab fumes and other contaminants to improve air quality in a variety of small- to medium-size industrial applications.

For additional fume and dust collectors, see pages 2362 and 2408.

2DBV6

2YFU4

Description	For Use With	Mfr. Model	Item No.
Primary Filters			
Air Cleaner Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-1	**2YFU5**
Carbon Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-2A	**2YFU6**
Cell Filter	Mfr. No. S-987-2A	F-987-1	**2DBV9**
HEPA Carbon Filter	Mfr. No. S-987-2A	F-987-4A	**2DBW3**
	Mfr. No. S-981-2B, SP-981-2B	F-981-4A	**2YFU8**
HEPA Filter	Mfr. No. S-981-2B, SP-981-2B	F-981-3	**2YFU7**

Description	For Use With	Mfr. Model	Item No.
Replacement Filters			
Aluminum Mesh	Mfr. No. E-1400G	RF-14-1	**4GJR8**
Carbon Filter	Mfr. No. SP-400, SP-400-DD	RF-400-3	**11G219**
Mini Pleat Filter	Mfr. No. SP-400, SP-400-DD, SP-800	RF-400-2	**11G218**
Pleated	Mfr. No. F-987-5A	RF-987-6	**2DBW8**
Pleated Filter	Mfr. No. SP-400, SP-400-DD, SP-800	RF-400-1	**11G217**

Description	Mount	Air Flow (cfm)	No. of Speeds	Sound Level dBA	H (in.)	W (in.)	D (in.)	Color	Includes	Mfr. Model	Item No.
Fume Extractors											
Air Cleaning System, Dual Arm, For Smoke, Dust, Fumes, Contaminants	Portable	800	1	73	36"	20"	20"	Black	3-Stage Filter, Two 4 in dia Extractor Arm	SP-800-DA	**35ZW99**
Air Cleaning System, For Smoke, Dust, Fumes, Contaminants	Portable	800	1	73	36"	20"	20"	Black	6 in dia Extractor Arm, 3-Stage Filter	SP-800	**35ZW98**
Ambient Room Air Cleaning System, For Dust & Fumes	Portable	800	1	73	46"	20"	20"	Black	Ambient Inlet Cover, 3-Stage Filter	SP-800-AMB	**35ZX02**
Compact Air Cleaning System, For Smoke, Dust, Odors	Multiple	100 to 350 Variable		66 @ 6 ft	12½"	19½"	12½"	Black	1 Inlet Cap, 2-Ply Ring Panel Prefilter, Clean Air Exhaust Deflector, Cover with 2 Extractor Arms, Filter Hold Down Grid	S-987-2A	**2DBV6**
For Airborne Contaminants	Bench	100 to 350 Variable		68 @ 6 ft	10"	12"	7"	White	2 Extractor Arms, Inlet Cap, Mounting Brackets	S-981-2B	**2YFU4**
Downdraft Tables											
Air Cleaning System, For Smoke, Dust, Fumes, Contaminants	Casters	400	1	70	36"	20"	20"	Black	Back & Side Shields, 3-Stage Filter	SP-400-DD	**11Y603**
	Portable	800	1	73	36"	20"	20"	Black	Ambient Inlet Cover, 3-Stage Filter	SP-800-DD	**35ZX03**
Downdraft Table Air Cleaning & Dust Collection System, For Smoke, Dust, Fumes, Contaminants	Portable	1250	1	72	78"	33"	25"	Black	Filter Gauge, Removable Side & Back Shields, Self-Cleaning Filter	SCDD-1250	**35ZX04**

Dayton®

Ceiling-Mounted Air Cleaners

2HNR8

- 90 to 95% efficiency

Remove tobacco smoke, dust, lint, dirt, bacteria, and other air contaminants. Units feature direct-drive blowers and Auto-Off timer. Filter status indicator helps assure max. efficiency. Use multiple units to accommodate larger areas. Gray powder-coated finish.

Item	For Use With	Item No.
Replacement Filter		
Bag Filter	2HNR9	**2HNT1**

Description	Air Flow (cfm)	Sound Level dBA	H (in.)	W (in.)	D (in.)	Includes	Item No.
Air Cleaners, 3 Speeds							
2-Stage Media	1800/1400/1000	71	25"	25"	50⁵¹⁄₆₄"	Pleated Prefilter, Primary Pocket Filter, Hardware & Remote Control	**2HNR8**
	3000/2500/2000	72	32"	26"	58"		**2HNR9**

VENT BOSS BY ROBOVENT

Fume Collectors

- Rated at MERV 13

Collectors are suitable for low-production manual welding applications. Feature spark arrestance and easy-to-maintain filters.

Series 300
5YAK4

Series 100—Fume arms have external support for increased air draw. Manual compressed air filter cleaning.

Series 200—Stand-alone weld booths feature simple plug-n-play setup. Feature a large work surface, pulse filter cleaning, and side panels.

Series 300—Compact, space-saving units have a fork pocket base. The large air draw. Pulse filter cleaning.

Air Flow (cfm)	Input Voltage	Includes	Mfr. Model	Item No.
Series 100, Portable				
150	110V	(1) 2 in x 15 ft Flex Hose and Flared Cone Attachment	G130	**45WD29**
750	110V	(1) 6 in x 10 ft Fume Arm with Light	G110	**45WD24**
	110V	(1) 6 in x 12 ft Flex Hose with Light	G112	**45WD26**
	110V	(1) 6 in x 14 in Fume Arm with Light	G111	**45WD25**
1200	110V	(2) 6 in x 10 ft Fume Arm with Light	G121	**45WD28**
	110V	(1) 8 ft x 10 ft Fume Arm with Light	G120	**45WD27**
Series 200, Booth				
2000	460V	eTech Controls, Minihelic Filter Pressure Gauge	S220	**13A907**
Series 300, Space Saver				
Floor Mount				
1500	480V	—	S310	**5YAK4**

LINCOLN ELECTRIC® Miller

Fume Extractors

5GWP6

LINCOLN

Automatic start/stop current sensor extracts only when needed, extending motor life. Choose low or high extraction settings.

Miniflex®—Made for light-duty welding applications, small size.

X-Tractor®—The high-efficiency polyester filter can be cleaned using compressed air with the rotary air jet system. Includes 16-ft. flexible hose, 2 spare sets of motor carbon brushes, and 12-ft. power cord.

Mobiflex®—Ideal for light- to medium-duty use. An internal spark arrestor prevents sparks from reaching the filter. Do not use with cutting or arc gouging operations.

MILLER

Nanofiber filter technology captures submicron welding particles.

FILTAIR® 130—Adjustable airflow. Includes 20-ft. power cord and 8-ft. collection hose.

FILTAIR® MWX—Delivers MERV 15 filters that capture submicron weld fumes and provide a longer holding capacity.

FILTAIR® SWX-S—Designed specifically for welding applications with higher arc times, this telescoping-arm unit can be mounted on a wall or column. Includes a self-cleaning filter and all mounting brackets. MERV 15 rated.

FILTAIR® SWX-D—Similar to the SWX-S, but with a disposable filter, this unit is designed to be used in lighter manufacturing applications with lower arc times. Includes all mounting brackets.

Description	Air Flow (cfm)	Includes	Mfr. Model	Item No.
Lincoln Electric				
Miniflex®	95	8 ft. Hose, Filter, HEPA Filter, 2 Carbon Brushes, Motor Seals	K3972-3	**54RY18**
X-Tractor	55/115	Adapter, 16 ft. Hose, (2) Carbon Brushes, Motor Seals, Filter	K652-1	**5GWP7**
	55/115	Adapter, 16 ft. Hose, (2) Carbon Brushes, Motor Seals, Filter	K652-2	**5GWP6**
Mobiflex®	735	19 ft Power Cord, Filter, Flexible Hose, Relay Kit	K1653-4	**49JR62**
Miller Electric				
FILTAIR 130	132	8 ft (2 in ID) Hose	300595	**5FYE9**
FILTAIR MWX-D (Disposable Filter)	875	7 ft. Extraction Arm and Disposible Filter	951507	**36XR13**
	875	10 ft. Extraction Arm and Disposable Filter	951508	**36XR14**
	875	12 ft. Extraction Arm and Disposable Filter	951509	**36XR15**
FILTAIR MWX-S (Self Cleaning Filer)	875	7 ft. Extraction Arm and Self-Cleaning Filter	951510	**36XR10**
	875	10 ft. Extraction Arm and Self-Cleaning Filter	951511	**36XR11**
	875	12 ft. Extraction Arm and Self-Cleaning Filter	951512	**36XR12**
FILTAIR SWX-S	875	Filter, 12 ft. Extraction Arm, Mounting Brackets, Gauge	951518	**49WM46**
FILTAIR SWX-D	875	3-4.5 ft Extraction Arm, Blower, Disposable Filter, Filter Cabinet, High-Efficiency Filter, Minihelic Filter Gauge, Mounting Brackets	951619	**484X72**
Miller Accessories				
For Use With FILTAIR 130				
		Collection Hose, 17 ft L x 1¾ in dia	300672	**5FYF0**
		Collection Hose, 34 ft L x 1¾ in dia	300673	**5FYF1**
		Replacement Filter, 12 in H x 8.5 in dia, 31 sq ft Media	301267	**5FYF2**
		Flexible Funnel Nozzle, 5 in Wide with Magnetic Base	300668	**5FYF3**
For Use With FILTAIR MWD-X				
		Nanofiber Cartridge Filter, 490 sq ft Media	300539	**4VDJ8**

Welding Blankets, Rolls and Pads

Welding Blankets—Use to protect workers and equipment from intense heat, flame, welding sparks, and molten metal splash.

Welding Blanket Rolls—When you need extended lengths or other custom size blankets, this economical solution can be cut to length.

Welding Pads—Welding pads are made with 1" of high-heat insulation, encased by a solvent-, abrasion, and puncture-resistant material. Can be used as kneeling pads, heat shield when working on hot vessels, and for insulating.

Welding Blanket 1UYD3

Welding Blanket Roll 5PGU1

Welding Pad 5PGX2

Width	Height	Material Weight	Thickness	Color	Brand	Item No.
Welding Blankets, With Grommet						
Uncoated Fiberglass, 1,000°F						
6 ft	4 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN92
	4 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE13
	4 ft	32 oz/sq yd	0.08 in	White	Westward	22RN80
	4 ft	32 oz/sq yd	0.08 in	White	Steiner	1H173
	6 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN93
	6 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE14
	6 ft	32 oz/sq yd	0.06 in	Orange	Steiner	29PF49
	6 ft	32 oz/sq yd	0.08 in	White	Westward	22RN81
	6 ft	32 oz/sq yd	0.08 in	White	Steiner	1H172
8 ft	6 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN94
	6 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE15
	6 ft	32 oz/sq yd	0.06 in	Orange	Steiner	29PF50
	6 ft	32 oz/sq yd	0.08 in	White	Westward	22RN82
	6 ft	32 oz/sq yd	0.08 in	White	Steiner	1H171
	8 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN95
	8 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE16
	8 ft	32 oz/sq yd	0.08 in	White	Westward	22RN83
	8 ft	32 oz/sq yd	0.08 in	White	Steiner	5UZ16
10 ft	6 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN96
	6 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE17
	6 ft	32 oz/sq yd	0.08 in	White	Westward	22RN84
	6 ft	32 oz/sq yd	0.08 in	White	Steiner	1H174
	8 ft	18 oz/sq yd	0.035 in	Tan	Steiner	36RD68
	8 ft	28 oz/sq yd	0.05 in	Black	Steiner	36RD67
	10 ft	18 oz/sq yd	0.035 in	Tan	Westward	22RN97
	10 ft	18 oz/sq yd	0.035 in	Tan	Steiner	6NE18
	10 ft	32 oz/sq yd	0.08 in	White	Westward	22RN85
	10 ft	32 oz/sq yd	0.08 in	White	Steiner	5UZ15
Acrylic Coated Fiberglass, 1,000°F						
6 ft	4 ft	28 oz/sq yd	0.05 in	Black	Steiner	1H169
	4 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN86
	6 ft	28 oz/sq yd	0.05 in	Black	Steiner	1H168
	6 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN87
8 ft	6 ft	28 oz/sq yd	0.05 in	Black	Steiner	1H167
	6 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN88
	8 ft	28 oz/sq yd	0.05 in	Black	Steiner	5UZ18
	8 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN89
10 ft	6 ft	28 oz/sq yd	0.05 in	Black	Steiner	1H170
	6 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN90
	10 ft	24 oz/sq yd	0.035 in	Amber	Tillman	54EF48
	10 ft	28 oz/sq yd	0.05 in	Black	Steiner	5UZ17
	10 ft	28 oz/sq yd	0.051 in	Black	Westward	22RN91
Vermiculite Coated Fiberglass, 1,200°F						
6 ft	6 ft	26 oz/sq yd	0.05 in	Black	Steiner	29PF55
8 ft	6 ft	26 oz/sq yd	0.05 in	Black	Steiner	29PF56
10 ft	8 ft	26 oz/sq yd	0.05 in	Black	Steiner	29PF58
	10 ft	26 oz/sq yd	0.05 in	Black	Steiner	29PF59
Silicone Coated Fiberglass, 1,750°F						
5 ft	5 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV0
6 ft	5 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV1
	6 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV2
8 ft	6 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV3
10 ft	8 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV4
	10 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGV5

Width	Height	Material Weight	Thickness	Color	Brand	Item No.
Welding Blankets, Without Grommet						
Carbonized Fiber, 1,800°F						
1 ft 6 in	1 ft 6 in	16 oz/sq yd	0.15 in	Black	Steiner	6NE19
6 ft	4 ft	16 oz/sq yd	0.15 in	Black	Steiner	3WE70
	4 ft	24 oz/sq yd	0.25 in	Black	Steiner	29PF28
	6 ft	16 oz/sq yd	0.15 in	Black	Steiner	3WE71
	6 ft	24 oz/sq yd	0.25 in	Black	Steiner	29PF29
8 ft	6 ft	16 oz/sq yd	0.15 in	Black	Steiner	3WE72
	6 ft	24 oz/sq yd	0.25 in	Black	Steiner	29PF30
	8 ft	16 oz/sq yd	0.15 in	Black	Steiner	36RD65
10 ft	8 ft	16 oz/sq yd	0.15 in	Black	Steiner	1UYD3
	10 ft	16 oz/sq yd	0.15 in	Black	Steiner	1UYD4
Welding Blanket Rolls						
Uncoated Fiberglass, 1,000°F						
150 ft	3 ft 3 in	16 oz/sq yd	0.04 in	Pink	Westward	22RN98
	5 ft	18 oz/sq yd	0.03 in	Tan	Westward	22RN99
	5 ft	18 oz/sq yd	0.035 in	Tan	Steiner	5JE12
Acrylic Coated Fiberglass, 1,000°F						
150 ft	3 ft 3 in	16 oz/sq yd	0.016 in	Pink	Steiner	3FKT4
	5 ft	16 oz/sq yd	0.016 in	Pink	Steiner	54TA75
Silicone Coated Fiberglass, 1,000°F						
150 ft	3 ft	32 oz/sq yd	0.04 in	Red	Westward	22RP01
	5 ft	32 oz/sq yd	0.035 in	Red	Steiner	54TA74
Silicone Coated Fiberglass, 1,750°F						
75 ft	3 ft 3 in	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGU0
	5 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGU2
150 ft	3 ft 3 in	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGT9
	5 ft	32 oz/sq yd	0.032 in	Red	Hi Temp	5PGU1
Carbonized Fiber, 1,800°F						
50 ft	4 ft	16 oz/sq yd	0.15 in	Black	Steiner	3FKT6
50 yd	4 ft	16 oz/sq yd	0.15 in	Black	Steiner	3FKT5
Silica Cloth, 1,800°F						
150 ft	3 ft	18 oz/sq yd	0.03 in	Tan	Steiner	3FKT3
Welding Pads						
Silicone Coated Fiberglass, 1,750°F						
1 ft	1 ft 3 in	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW2
	1 ft 3 in	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW3 *
2 ft	2 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW4
	2 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW5 *
	4 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW6
	4 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGW7 *
2 ft 6 in	2 ft 6 in	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX0
	2 ft 6 in	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX1 *
3 ft	3 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX2
5 ft	5 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX3
	6 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX4
6 ft	6 ft	32 oz/sq yd	1.0 in	Red	Hi Temp	5PGX6

** Stainless mesh on 1 side.*

22RP02

Welding Umbrellas

Made of flame-retardant cloth and can be tilted to the desired position. Withstand temps. up to 150°F. Meet NFPA 701.

Protective Color	Height	Width	Item No.
Blue	9 ft	6 ft 6 in	22RP02
Red	9 ft	6 ft 6 in	22RP03

Pipe Wrap

Includes hooks and elastic strapping to secure around pipes.

Height	Width	Thickness	Item No.
Pink Silicone Coated Fiberglass, 1,000°F			
3 ft	8 in	1.0 in	5PGX7
	1 ft	1.0 in	5PGY0
4 ft	8 in	1.0 in	5PGX8
	1 ft	1.0 in	5PGY1
5 ft	8 in	1.0 in	5PGX9
8 ft	1 ft	1.0 in	5PGY2

Welding Strip Curtains

8"W PVC strips protect individuals outside welding area from spark, spatter, and arc flash, while still permitting access. Available with universal mount for doorways, or with pipe mount clamps for hanging from pipe up to 2" dia.

Width	Height	Thickness	►CHOOSE: Color	Item No.
Transparent PVC				
Universal Hardware				
6 ft	6 ft	0.08 in	Amber, Blue	J1591
8 ft	6 ft	0.08 in		J1595
	8 ft	0.08 in		J1596
10 ft	6 ft	0.08 in		J1594
	8 ft	0.08 in		J1597
Pipe Mount Hardware				
6 ft	6 ft	0.08 in	Amber, Blue	J1592
8 ft	6 ft	0.08 in		J1600
	8 ft	0.08 in		J1601
10 ft	6 ft	0.08 in		J1599
	8 ft	0.08 in		J1602
Clamp Pipe Mount for Strip Doors				3KMK6

J1591

Curtain w/Window
36J649

Curtain
J4038

Curtain Roll
w/Grommet
H6751

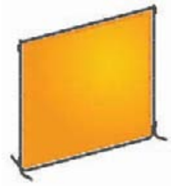
Welding Curtains and Rolls

Curtains—Use to enclose robotic welding cells and other welding work areas to create a customized, enclosed space and help protect personnel and equipment from welding sparks, spatter, and slag. Silicone Coated Fiberglass Curtains have one grommet on each corner.

Curtain Rolls—When you need extended or other custom sized curtains, this economical solution can be cut to size. Curtain Rolls With Grommet have grommets on 12" centers on one side.

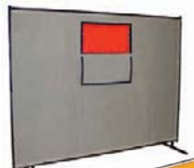
Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.
Curtains						
Transparent Vinyl, 150°F						
4 ft	6 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6752
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6752
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF37
	6 ft	13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6753
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF38
	8 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6754
8 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6754
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF39
10 ft	8 ft	13 oz/sq yd	0.014 in	Orange	Steiner	38RL39
Cotton Duck, 350°F						
6 ft	4 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5UZ09
	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	3T974
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	3T975
Transparent PVC, 150°F						
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4038
	6 ft	13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4039
8 ft		13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4040
Silicone Coated Fiberglass, 1,200°F						
5 ft	5 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGV6
	6 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGV7
6 ft		20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGV8
	8 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGV9
8 ft	10 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGW0
10 ft	12 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGW1
Curtain With Windows						
Acrylic Coated Fiberglass, 1,000°F						
6 ft	6 ft	16 oz/sq yd	0.016 in	Orange/Red	Steiner	29PF25
8 ft		16 oz/sq yd	0.016 in	Orange/Red	Steiner	29PF26
Cotton Duck, 350°F						
6 ft	6 ft	12 oz/sq yd	0.025 in	Olive/Orange	Steiner	29PF21
8 ft		12 oz/sq yd	0.025 in	Olive/Orange	Steiner	29PF22
Silicone Coated Fiberglass, 1,200°F						
6 ft	6 ft	17 oz/sq yd	0.017 in	Gray/Orange	Hi Temp	36J649
	8 ft	17 oz/sq yd	0.017 in	Gray/Orange	Hi Temp	36J650
Curtain Rolls, Without Grommet						
Silicone Coated Fiberglass, 1,000°F						
150 ft	3 ft 3 in	17 oz/sq yd	0.017 in	Pink	Hi Temp	5PGU5
	5 ft	17 oz/sq yd	0.017 in	Pink	Hi Temp	5PGU6
Silicone Coated Fiberglass, 1,200°F						
150 ft	3 ft 3 in	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGU3
	5 ft	20 oz/sq yd	0.021 in	Orange	Hi Temp	5PGU4
Curtain Rolls, With Grommet						
Cotton Duck, 150°F						
75 ft	5 ft	12 oz/sq yd	0.025 in	Olive	Steiner	4NFV2
Transparent Vinyl, 150°F						
75 ft	5 ft	13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6751
Transparent PVC, 150°F						
75 ft	5 ft	13 oz/sq yd	0.014 in	Orange/Yellow, Red, Gray, Blue	Westward	J4044

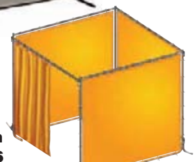
Screen
J4043



Curtain Wall
3FKP9

Screen w/
Window
29PF20





Booth
J4046

Screens, Curtain Walls and Booths

Screens, walls, and booths help safely confine hazardous sparks, arcs, or open flame in open areas, where there is no place to hang a curtain.

Screens—Easy-to-assemble kits include flame- and heat-resistant sides and a sturdy, freestanding steel frame.

Curtain Walls and Booths—Track and roller Curtain Walls provide good protection, while maintaining easy access. Kit includes curtain, 18-ga. steel track, rollers, and suspension mounting hardware. 4-sided Welding Booth Kit enclosures have one side with a sliding curtain wall and 3 fixed sides.

Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.	
Screen							
Transparent Vinyl, 150°F							
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6755	*
	6 ft	13 oz/sq yd	0.013 in	Blue	Steiner	54TA82	
		13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6756	*
	10 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6758	*
8 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Orange, Gray	Steiner	H6757	*
10 ft		13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6758	*
Transparent Vinyl HD, 150°F							
6 ft	4 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6760	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF34	†
	6 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6761	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF35	†
	10 ft	13 oz/sq yd	0.014 in	Gray	Steiner	H6759	†
8 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Gray, Orange	Steiner	H6762	†
		36 oz/sq yd	0.04 in	Orange	Steiner	29PF36	†
10 ft		13 oz/sq yd	0.014 in	Yellow, Orange	Steiner	H6759	†
Cotton Duck, 350°F							
6 ft	4 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5UZ19	*
	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	3T969	*
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	3T970	*
10 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF43	*
Cotton Duck HD, 350°F							
6 ft	4 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5KNK8	†
	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	5KNK9	†
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	5KNL0	†
10 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF47	*
Transparent PVC, 150°F							
4 ft	6 ft	13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4041	‡
6 ft		13 oz/sq yd	0.014 in	Yellow, Red, Gray, Blue	Westward	J4042	‡
8 ft		13 oz/sq yd	0.014 in	Blue	Westward	J4043	
		13 oz/sq yd	0.014 in	Yellow, Red, Gray	Westward	J4043	‡
Screen With Window							
Cotton Duck HD, 350°F							
6 ft	6 ft	12 oz/sq yd	0.025 in	Olive	Steiner	29PF19	†
8 ft		12 oz/sq yd	0.025 in	Olive	Steiner	29PF20	†
Acrylic Coated Fiberglass HD, 1,000°F							
6 ft	6 ft	16 oz/sq yd	0.016 in	Red	Steiner	29PF23	†
8 ft		16 oz/sq yd	0.016 in	Red	Steiner	29PF24	†
Accessories							
2-Panel Connector for Heavy-Duty Screens					Steiner	5KNN0	
2-Panel Connector for Protect-O-Screens® Classic, Pkg. of 2					Steiner	3KMK5	
Caster Leg for Heavy-Duty Screens, 1 ea.					Steiner	5KNN5	
Casters for Heavy-Duty Screens					Steiner	5KNN3	
Casters for Heavy-Duty Screens, w/Lock					Steiner	5KNN4	
Curtain S-Hooks, Pkg. of 10					Steiner	3KMK3	
Replacement Weld-View™ Window 1ft. x 2ft.					Steiner	29PF27	
Rubber Tread							
Plain Bearing							
Casters for Protect-O-Screens® Classic, Pkg. of 4					Steiner	5UZ25	

Width	Height	Material Weight	Thickness	▶CHOOSE: Color	Brand	Item No.	
Curtain Wall							
Vinyl Laminated Polyester, 150°F							
6 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKP9	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR2	
8 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR3	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR4	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR5	
10 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR6	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR7	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR8	
Curved Curtain Wall							
Vinyl Laminated Polyester, 150°F							
4 ft	8 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKR9	
	9 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKT1	
	10 ft	13 oz/sq yd	0.014 in	Blue/Yellow	Steiner	3FKT2	
Booth Kit							
Transparent PVC, 150°F							
6 ft	6 ft	13 oz/sq yd	0.014 in	Red, Yellow	Westward	J4046	‡
8 ft		13 oz/sq yd	0.014 in	Red, Yellow	Westward	J4047	‡

** ¾" Square tube frame. † 1" Square tube frame. ‡ 1" Round tube frame.*

Welding Carts, Cabinets, and Trailers

Conveniently provide mobility and easy maneuverability of welding supplies and equipment to most jobsites.

WeldScoot Cart 20UH11

Running Gear & Cylinder Rack Cart 1Z572

Description	Material	Cylinder Holder	Series	For Use With	Item No.
Westward					
Welding Cart w/Cylinder Strap	Steel	7 39/64 in	—	Welders	19D985
Welding Cart With Drawers	Steel	10 1/64 in	—	Welders	19D984
Huot					
WeldScoot Cart, Red	—	20, 40 or 80 cu ft tanks	WeldScoot	Tank & Accessories, Welder	20UH11
WeldScoot Cart, Blue	—	20, 40 or 80 cu ft tanks	WeldScoot	Tank & Accessories, Welder	20UH12
Lincoln Electric					
Welding Cart For Welders	Steel	—	—	Lincoln Electric's Wire Feed / MIG Welders	6JDT2
Utility Cart For Welders	Steel	—	—	Lincoln Electric's AC-225C, SP-140T, SP-180T, POWER MIG(R) 140C, POWER MIG 180C	6JDU6
Miller Electric					
Running Gear/Cart	—	—	ArcArmor	907612, 907614, 907693, 917613	31MJ89
Running Gear And Cylinder Rack Cart	—	—	Millermatic 130, Maxstar	152, And Maxstar 91, Econotig, Millermatic 130	1Z572
Running Gear Cart For Moving Large Welders	—	—	—	Gas LP Bobcat and Trailblazer Models	29PF72
Running Gear	Steel	—	Bobcat Trailblazer	Gas LP Bobcat and Trailblazer Models	49WM57
Running Gear With Cylinder Rack	Steel	10 1/64 in	Axcess 450	Dual Feeder	49WM59
Two Wheel Trailer	Steel	Not Included	Bobcat Trailblazer	Gas/LP Bobcat and Trailblazer	54PK50

MIG Welders

- Single-phase except where noted
- Flux-Cored Welding (FCAW), MIG Welding (GMAW) processes

Hobart 13Z834

Lincoln 19R742

Miller 2GPJ9

Series	Welder Kit Package	Includes
Hobart		
Handler 140	MIG Package	0.030 in. (0.8mm) Contact Tips, 10 ft. Work Cable with Clamp, Comfortable 10 ft. HR-100 Gun, Dual-Gauge Regulator with Gas Hose, Quick Select Drive Roll for 0.024 in. (0.6mm) or 0.030/0.035 in. (08/0.9 mm) Solid Wire, and 0.030/0.035 in. (0.8/0.9 mm) Flux-Cored Wire, Sample Spool of 0.030 in. (0.8mm) Self-Shielding Flux-Cored Wire
Handler 190	MIG/Aluminum Package	0.030 in. Contact Tips, 10 ft. Work Cable with Clamp, Comfortable 10 ft (3m) HR-100 Welding Gun, Dual-Gauge Regulator with Gas Hose, Sample Spool of 0.030 in. Self-Shielded Flux Cored Welding Wire
	MIG Package	0.030 in. Contact Tips, 10 ft. Work Cable with Clamp, Comfortable 10 ft. H100S4-10 Welding Gun, Dual Gauge Regulator and Gas Hose, Sample Spool of 0.030 in. Self-Shielded Flux Cored Welding Wire
IronMan 240	MIG Package w/ Running Gear	0.030 and 0.035 in Dual Groove Drive Roll, 10 ft. Work Cable with Clamp, 15 ft. 200 amp MIG Gun, 5 ft. Gas Hose, Built-in Running Gear/Cylinder Rack, Contact Tips, Regulator/Flow Gauge
Lincoln Electric		
Easy-MIG 140	MIG/Flux-Cored Package	0.025 - 0.035 in. wire diameter dual track drive roll for MIG and flux-cored welding (KP2948-1), 0.025 in & 0.035 in contact tips, Gas nozzle for MIG welding (KH725), Gasless nozzle for Flux-Cored welding (KH726), Harris 3000290 Gas Regulator (S25805) and 52 in. hose (S19303) for use with Ar/CO2 or CO2 gases, Magnum 100L gun and 10 ft cable assembly with brass connection and 4-pin MS-Type connection for trigger control (K530-6), Sample spool of .025 in. (0.6 mm) diameter SuperArc L-56 premium MIG wire, Sample spool of .035 in. (0.9 mm) diameter Innershield NR-211-MP flux-cored wire, Work clamp and 10 ft. cable
Power MIG 256	MIG/Aluminum Package w/Running Gear	Dual Cylinder Mounting Kit, Gas regulator and hose kit for argon blend gases, Magnum PRO 250L MIG Gun, Magnum PRO 250LX Spool Gun, Work clamp and 10 ft cable
	MIG Package w/ Running Gear	Dual Cylinder Mounting Kit, Gas regulator and hose kit for argon blend gases, Magnum PRO 250L MIG Gun, Work clamp and 10 ft cable
Power MIG 260	MIG Package w/ Running Gear	10 ft Work Cable with Clamp, Gas Regulator, Magnum® PRO 250L Welding Gun
Miller Electric		
Deltaweld 350	MIG Package w/ Dual-Wire Feeder	(2) Bernard BTB Guns 300 A, 0.035/0.045 in. V-groove Drive Rolls, ArcConnect Control/Motor Cable 9ft., Deltaweld 350 Running Gear/Cylinder Rack, Intellx Pro Dual Wire Feeder
Millermatic 252	MIG/Aluminum Package w/Running Gear	10 ft (3 m) Work Cable and Clamp, 15 ft. (4.5 m) 250-Amp MDX-250 MIG Gun with Bernard AccuLock MDX Consumables, Dual Cylinder Rack, Extra Contact Tips, Reversible Drive Rolls, Spoolmatic 30A #130831, Two Argon Mix Regulator/Flow Gauges and One Hose
	MIG Package w/ Running Gear	0.030/0.035 in Reversible Drive Rolls, 10 ft (3 m) Work Cable and Clamp, 15 ft (4.6 m) 250 Amp M-25 MIG Gun, Argon Mix Regulator/ Flow Gauge and Hose, Extra Contact Tips, Factory-installed Running Gear with EZ-Change(TM) Single Low Cylinder Rack

Input Voltage (Nominal)	Rated Output @ Duty Cycle	Maximum Wire Diameter	Maximum Wire Feed Speed	For Wire Type	Welder Kit Package	Item No.
Hobart						
Handler 140 Series						
120V	90 A @ 20%	0.035 in (Flux-Cored), 0.035 in (Solid)	700 in/min	Flux-Cored, Solid	MIG Package	4TY18
Handler 190 Series						
240V	130 A @ 30%	0.035 in (Aluminum), 0.035 in (Solid), 0.045 in (Flux-Cored)	740 in/min	Aluminum, Flux-Cored, Solid	MIG/Aluminum Package	56LF07
		0.035 in (Solid), 0.045 in (Flux-Cored)	740 in/min	Flux-Cored, Solid	MIG Package	13Z834
IronMan 240 Series						
240V	200 A @ 60%	0.045 in (Flux-Cored), 0.045 in (Solid)	700 in/min	Flux-Cored, Solid	MIG Package w/Running Gear	6DLV9
Lincoln Electric						
Easy-MIG 140 Series						
120V	90 A @ 20%	0.035 in (Flux-Cored), 0.035 in (Solid)	500 in/min	Flux-Cored, Solid	MIG/Flux-Cored Package	3LVR8
Power MIG 256 Series						
240V, 208V	250 A @ 40%	0.045 in (Flux-Cored), 3/64 in (Aluminum), 3/64 in (Solid)	700 in/min	Aluminum, Flux-Cored, Solid	MIG/Aluminum Package w/Running Gear	19R743
240V, 480V, 575V		0.045 in (Flux-Cored), 3/64 in (Solid)	700 in/min	Flux-Cored, Solid	MIG Package w/Running Gear	19R742
Power MIG 260 Series						
240V, 208V, 480V, 575V	250 A @ 40%	—	700 in/min	Flux-Cored, Solid	MIG Package w/Running Gear	61UX94
Miller Electric						
Deltaweld 350 Series						
240V, 480V	300 A @ 100%, 350 A @ 60%, 425 A @ 30%	5/64 in	780 in/min	Flux-Cored, Solid	MIG Package w/Dual-Wire Feeder	61TC65 *
Millermatic 252 Series						
240V, 208V	250 A @ 40%, 200 A @ 60%	0.045 in (Flux-Cored), 0.045 in (Solid), 1/16 in (Aluminum)	700 in/min	Aluminum, Flux-Cored, Solid	MIG/Aluminum Package w/Running Gear	5GVZ3
		0.045 in (Flux-Cored), 0.045 in (Solid)	700 in/min	Flux-Cored, Solid	MIG Package w/Running Gear	2GPJ9

**Three-Phase.*

Lincoln 61UX77

Miller 5GWK5

MIG Wire Feeders

Wire Feeder Series	Compatible with Welder Series
Lincoln Electric	
FlexFeed 84 Dual	Flextec 350X, Flextec 350X PowerConnect, Flextec 500X, Flextec 650X, Idealarc DC400, Idealarc DC600, Invertec V350 Pro
FlexFeed 84 Single	
LF-74	
Miller Electric	
20 Series	CP-302, Deltaweld 350, Deltaweld 500, Dimension 650, Invision 352 MPa, Invision 450 MPa, XMT 350 CC/CV, XMT 350 MPa, XMT 450 CC/CV, XMT 450 MPa
SuitCase 8RC	SuitCase 8RC

For Use With	Series	Input Voltage	Rated Output @ Duty Cycle	Maximum Wire Diameter	Maximum Wire Feed Speed	Maximum Spool Diameter	Maximum Spool Weight	Item No.
Lincoln Electric								
Benchtop, 4-Roll								
Constant Voltage DC Power Source	FlexFeed 84 Dual	24 V AC	600 A @ 60%	0.12 in (Flux-Cored), 3/32 in (Solid)	500 in/min	12 in	60 lb	**61UY30**
	FlexFeed 84 Single	24 V AC	600 A @ 60%	0.12 in (Flux-Cored), 3/32 in (Solid)	500 in/min	12 in	44 lb	**61UY29**
	LF-74	24 V AC	600 A @ 60%	1/16 in (Solid), 5/64 in (Flux-Cored)	800 in/min	12 in	60 lb	**61UX77**
Miller Electric								
Benchtop, 2-Roll								
Constant Voltage DC Power Source	20 Series	24 V AC	500 A @ 100%	5/64 in (Flux-Cored), 5/64 in (Solid)	750 in/min	18 in	60 lb	**494D75**
Benchtop, 4-Roll								
Constant Voltage DC Power Source	20 Series	24 V AC	500 A @ 100%	5/64 in (Flux-Cored), 5/64 in (Solid)	750 in/min	18 in	60 lb	**61TC66**
Portable, 2-Roll								
Constant Voltage DC Power Source	SuitCase 8RC	24 V AC	400 A @ 60%	5/64 in (Flux-Cored), 5/64 in (Solid)	700 in/min	8 in	14 lb	**5GWK5**

Lincoln 6JDU7

General Purpose MIG Guns

Bernard—Feature a rotatable neck tube.

Lincoln Electric—6JDU7 features an abrasion-resistant, extruded rubber jacket for long cable life. 49JR58 has a chrome-plated gun tube that keeps splatter from clinging to the tube for long life.

Miller Electric—Ball-and-socket rear swivel allows for a free range of motion.

Series	Maximum Current	Maximum Wire Diameter	Cable Length	Duty Cycle	For Gas Type	Handle Type	Neck Tube Angle	For Wire Type	Tip Series	For Rear Connection Type	Item No.
Bernard											
BTB-B Series	300 A	0.045 in	15 ft	60 %, 100 %	CO_2 (Carbon Dioxide), Mixed Gas	Curved	45 °	Solid	Centerfire	Miller-Compatible	**11Z519**
	400 A	0.045 in	15 ft	60 %, 100 %	CO_2 (Carbon Dioxide), Mixed Gas	Curved	45 °	Solid	Centerfire	Miller-Compatible	**11Z521**
Lincoln Electric											
Magnum 100L	100 A	0.035 in	10 ft	40 %	CO_2 (Carbon Dioxide)	Straight	60 °	Flux-Cored, Solid	Magnum 100A	4-Pin MS Type	**6JDU7**
Magnum Pro 250L	250 A	0.045 in	10 ft	100 %	Mixed Gas	Curved	45 °	Flux-Cored, Solid	Magnum Pro 350A	Lincoln-Compatible	**49JR58**
Miller Electric											
MDX-250	250 A	0.035 in	15 ft	60 %, 100 %	CO_2 (Carbon Dioxide), Mixed Gas	Straight	50 °	Flux-Cored, Solid	AccuLock MDX	Miller-Compatible	**494D62**
	250 A	0.045 in	15 ft	60 %, 100 %	CO_2 (Carbon Dioxide), Mixed Gas	Straight	50 °	Flux-Cored, Solid	AccuLock MDX	Miller-Compatible	**494D63**

Miller 5GWK8

Spool Guns

- 4" spool capacity
- For argon gas and aluminum wire

Lincoln Electric—The full travel mechanical trigger, 10-ft. gun cable, control harness, and gun connector ease connecting the gun to a welding machine.

Miller Electric—Feature a two-stage trigger and spool canister that rotates 180°.

Series	Maximum Current	Maximum Wire Diameter	Cable Length	Duty Cycle	Maximum Wire Feed Speed	For Rear Connection Type	Item No.
Lincoln Electric							
Magnum Pro 100SG	130 A	0.035 in	10 ft	30 %	550 in/min	Lincoln-Compatible	**49JR60**
Miller Electric							
Spoolmatic 15	200 A	0.063 in	15 ft	100 %	875 in/min	Miller-Compatible	**5GWK8**
Spoolmatic 30	200 A	0.063 in	30 ft	100 %	875 in/min	Miller-Compatible	**5GWK9**

XR-Pistol 5GWL1

Push-Pull Guns

- 100% duty cycle
- For argon gas and aluminum wire

XR-Aluma-Pro offers quick access to the drive assembly and the removable head tube. **XR-Pistols** feature an adjustable gun barrel, trigger hold, and replaceable feed cable liner.

Cooling Method	Maximum Current	Maximum Wire Diameter	Cable Length	Maximum Wire Feed Speed	Handle Type	For Rear Connection Type	Item No.
XR-Aluma-Pro							
Air-Cooled	300 A	0.063 in	15 ft	900 in/min	Curved	Miller-Compatible	**60JK82**
Water-Cooled	400 A	0.063 in	25 ft	900 in/min	Straight	Miller-Compatible	**61TC63**
XR-Pistol							
Air-Cooled	200 A	0.063 in	30 ft	875 in/min	Pistol Grip	Miller-Compatible	**5GWL1**
Water-Cooled	200 A	0.063 in	15 ft	875 in/min	Pistol Grip	Miller-Compatible	**5GWL2**

6JDX4

Drive Roll Kits

Included wire inlet guide positions wire as it is fed into a MIG gun during welding.

For Wire Feeder Series	Includes	Maximum Wire Diameter	Drive Roll Type	For Wire Type	Item No.
Lincoln Electric					
2 Drive Rolls					
Activ8, LF-72, LN-25 Pro, LN-25X, Power Feed 25M	Wire Inlet Guide	0.03 in	V-Groove	Solid	**6JDX4**
		0.045 in	V-Knurl	Flux-Cored	**6JDY0**
4 Drive Rolls					
AutoDrive 4R100, AutoDrive 4R220, DH-10, FlexFeed 74 HT, FlexFeed 84 Dual, FlexFeed 84 Single, LF-74, LN-10, Power Feed 10M, Power Feed 10M Dual, Power Feed 10R, Power Feed 84 Dual, Power Feed 84 Single	Wire Inlet Guide	0.035 in	V-Groove	Solid	**61UY39**
		0.063 in	V-Groove	Solid	**61UY41**
Miller Electric					
2 Drive Rolls					
22 Series, 32 Series, 52 Series, Millermatic Reach, SuitCase 12RC, SuitCase 12VS, SuitCase 8RC, SuitCase 8VS	Wire Inlet Guide	0.035 in	V-Groove	Solid	**1Z621**
		0.047 in	V-Knurl	Flux-Cored	**38G543**
4 Drive Rolls					
Axcess Series, D-74 MPa Plus, D-74D, D-74S, PipePro Dual DX, PipePro Single, PipePro Single DX, S-64, S-74 MPa Plus, S-74D, S-74S	Antiwear Guide, Intermediate Guide, Wire Inlet Guide	0.047 in	U-Groove	Aluminum	**38G540**
		0.047 in	V-Knurl	Flux-Cored	**38G550**

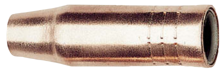
38G553

Inlet Wire Guides

Maximum Wire Diameter	For Wire Feeder Family	For Wire Type	Item No.
Lincoln Electric			
For Welder Family Power MIG			
0.035 in	—	Solid	**61UY57**
0.045 in	—	Solid	**61UY58**
Miller Electric			
For Welder Family Multimatic, Millermatic			
0.035 in	R-115, SuitCase, Millermatic Reach, 22/32/52 Series	Flux-Cored, Solid	**38G553**
0.052 in	R-115, SuitCase, Millermatic Reach, 22/32/52 Series	Flux-Cored, Solid	**38G554**

Compatible with MIG Gun Series	Bore Diameter	Nozzle Shape	Nozzle to Tip Relationship	Connec. Type	Material	For Contact Tip Series	Item No.
Bernard							
AccuLock S Nozzle Series							
BTB, MDX-250, MDX-250 EZ-Select	⅝"	Conical	Flush	Threaded	Copper	AccuLock S	**55EL38**
Large Centerfire Nozzle Series							
BTB, Clean Air, Dura-Flux, FILTAIR, Q-Gun, S-Gun, XR-Aluma-Pro, XR-Pistol	⅝"	Conical	⅛ in Recess	Threaded	Copper	Centerfire	**11Z554**
	⅝"	Conical	Flush	Threaded	Copper	Centerfire	**11Z552**
Small Centerfire Nozzle Series							
BTB, Clean Air, Dura-Flux, FILTAIR, Q-Gun, S-Gun, XR-Aluma-Pro, XR-Pistol	½"	Conical	⅛ in Recess	Threaded	Brass	Centerfire	**11Z551**
	⅝"	Conical	⅛ in Recess	Threaded	Copper	Centerfire	**11Z553**
Lincoln Electric							
Magnum 400A Nozzle Series							
Magnum 300, Magnum 400	½"	Conical	Flush	Threaded	—	Magnum 400A	**6JDY7**
	⅝"	Conical	Flush	—	—	Magnum 400A	**6JDY8**
Magnum Pro 350A Nozzle Series							
Magnum Pro 250, Magnum Pro 250L, Magnum Pro 350, Magnum Pro Curve 200, Magnum Pro Curve 300	½"	Straight	Flush	Threaded	—	Magnum Pro 350A	**61UY64**
	⅝"	Straight	⅛ in Recess	Threaded	Copper	Magnum Pro 350A	**487F07**
	⅝"	Straight	Flush	Slip-On	—	Magnum Pro 350A	**61UY72**
Magnum Pro 550A Nozzle Series							
Magnum Pro 450, Magnum Pro 550, Magnum Pro Curve 400	¾"	Conical	⅛ in Recess	Threaded	—	Magnum Pro 550A	**61UY79**
Miller Electric							
AccuLock MDX Nozzle Series							
MDX-250, MDX-250 EZ-Select	½"	Conical	Flush	Threaded	Copper	AccuLock MDX	**494D72**
FasTip Nozzle Series							
Spoolmatic 15, Spoolmatic 30, XR-Aluma-Pro, XR-Pistol	⅜"	Tapered	—	Threaded	Copper	FasTip	**38G593**
M-Series Nozzle Series							
H200L4, M-25	½"	Conical	Flush	Slip-On	Copper	M-Series	**4TY36**
M-100, M-150	½"	Conical	Flush	Slip-On	Copper	M-Series	**38G602**
Tweco							
21 Nozzle Series							
Classic No. 1, Mini-MIG 160, Spray Master 250	⅜"	Conical	Flush To 1/16 in Tip Recess	Threaded	Copper	11	**5GEK3**
	½"	Conical	Flush To 1/16 in Tip Recess	Threaded	Copper	11	**5GEK4**
WS21 Nozzle Series							
Classic No. 1, Mini-MIG 160, Spray Master 250	½"	Conical	⅛ to 5/32 in Tip Recess	Threaded	Copper	WS11, WS14	**2URP7**
WS22 Nozzle Series							
Classic No. 2, Classic No. 3, Classic No. 4, WeldSkill WM 250, WeldSkill WM 400	⅜"	Conical	⅛ to 5/32 in Tip Recess	Threaded	Copper	WS14	**2URR5**
	⅝"	Conical	⅛ to 5/32 in Tip Recess	Threaded	Copper	WS14	**2URR7**

Bernard
11Z554



Lincoln
6JDY7

Miller
4TY36

Tweco
5GEK3

MIG Nozzles

Note: Nozzles are not interchangeable with all MIG manufacturers. To ensure compatibility, the brand of the nozzle must be the same as the brand of the MIG gun.

MIG Contact Tips

- Copper material

These tips guide the wire and transfer the current from the conductor tube, also known as a swan neck or goose neck, through the filler wire and finally to the workpiece. Tips with a slip-on connection allow toolless changeouts.

Bernard
12A755

Lincoln
487F05

Tweco
49NX14

Compatible with MIG Gun Series	Maximum Wire Diameter	For Wire Type	Duty Rating	Connec. Type	For Nozzle Series	Tip Shape	Item No.
Bernard							
AccuLock S Tip Series							
BTB, MDX-250	0.035"	Flux-Cored, Solid	Heavy Duty	Threaded	AccuLock S	Standard	**55EL43**
Centerfire Tip Series							
BTB, Clean Air, Dura-Flux, FILTAIR, Q-Gun, S-Gun, XR-Aluma-Pro, XR-Pistol	0.035"	Flux-Cored, Solid	—	Slip-On	Large Centerfire, Small Centerfire	Tapered	**12A755**
Lincoln Electric							
Magnum 100A Tip Series							
Magnum 100L	0.035"	Flux-Cored, Solid	Standard Duty	Threaded	Magnum 100A	Standard	**61UY33**
Magnum 400A Tip Series							
Magnum 200, Magnum 250L, Magnum 300, Magnum 400	0.035"	Flux-Cored, Solid	Standard Duty	Threaded	Magnum Pro 550A	Standard	**6JDW9**
	0.046875"	Flux-Cored, Solid	Standard Duty	Threaded	Magnum Pro 550A	Standard	**6JDX2**
Magnum Pro 350A Tip Series							
Magnum Pro 100L, Magnum Pro 175L, Magnum Pro 250, Magnum Pro 250L, Magnum Pro 350, Magnum Pro Curve 200, Magnum Pro Curve 300	0.035"	Flux-Cored, Solid	Standard Duty	Threaded	Magnum Pro 350A	Standard	**487F04**
	0.045"	Flux-Cored, Solid	Standard Duty	Threaded	Magnum Pro 350A	Standard	**487F05**
Miller Electric							
AccuLock MDX Tip Series							
MDX-100, MDX-250, MDX-250 EZ-Select	0.035"	Flux-Cored, Solid	Standard Duty	Threaded	AccuLock MDX	Standard	**494D57**
FasTip Tip Series							
Spoolmatic 15, Spoolmatic 30, XR-Aluma-Pro, XR-Pistol	0.035"	Aluminum	Heavy Duty	Threaded	FasTip	Standard	**5XRU8**
	0.052"	Aluminum	Heavy Duty	Threaded	FasTip	Standard	**5XRV1**
M-Series Tip Series							
H200L4, HR100, M-10, M-100, M-15, M-150, M-25, M-80	0.03"	Flux-Cored, Solid	—	Threaded	M-Series	Standard	**1Z385**
Spoolmate Tip Series							
Spoolmate 100, Spoolmate 185, Spoolmate 3035, SpoolRunner 100	0.035"	Aluminum	Heavy Duty	Threaded	Spoolmate	Tapered	**5XRU4**
Tweco							
11 Tip Series							
Classic No. 1, Mini-MIG 160, Spray Master 250	0.035"	Flux-Cored, Solid	Standard Duty	Threaded	21	Standard	**5GEK2**
16S Tip Series							
Spray Master 350, Spray Master 450	0.045"	Flux-Cored, Solid	Standard Duty	Threaded	HD24	Standard	**49NX14**
WS14H Tip Series							
Classic No. 2, Classic No. 3, Classic No. 4, WeldSkill WM 250, WeldSkill WM 400	0.035"	Flux-Cored, Solid	Heavy Duty	Threaded	WS22, WS23, WS24A, WS24CT	Standard	**2URE8**

Compatible with MIG Gun Series	For Contact Tip Series	Gas Diffuser Number	Item No.
Bernard			
Centerfire Tip Series			
BTB, Clean Air, Dura-Flux, FILTAIR, Q-Gun, S-Gun, W-Gun	Centerfire	DS-1	**11Z535**
	Centerfire	D-1	**11Z534**
Quik Tip Tip Series			
BTB, Clean Air, Dura-Flux, FILTAIR, Q-Gun, S-Gun, W-Gun	Quik-Tip	D118Q	**38VN82**
Lincoln Electric			
Magnum Pro Tip Series			
Magnum Pro 250, Magnum Pro 250L, Magnum Pro 350, Magnum Pro Curve 200, Magnum Pro Curve 300	Magnum-Pro-350A	KP2746-1	**487F06**
Magnum Tip Series			
Magnum 100L	Magnum-100A	KP35-50	**6JDY9**
Miller Electric			
AccuLock MDX Tip Series			
MDX-100	AccuLock-MDX	D-M100	**494D65**
MDX-250, MDX-250 EZ-Select	AccuLock-MDX	D-M250	**494D69**
M-Series Tip Series			
H200L4, M-25	M-Series	169728	**1Z765**
Tweco			
EL54 Tip Series			
Spray Master 350, Spray Master 450	EL16	EL54-SW	**49NX20**
WM400 Tip Series			
Classic No. 2, Classic No. 3, Classic No. 4, WeldSkill WM 250, WeldSkill WM 400	WS14	WS54A	**2URY9**

Bernard
11Z535

Lincoln
487F06

Miller
494D69

Tweco
49NX20

MIG Gas Diffusers

- Threaded connection

Gas diffusers, also known as retaining heads, are designed to conduct electricity to the contact tip while distributing the shielding gas. They also hold the contact tip and nozzle in place on the neck of the welding gun.

TIG Welders

Series	Welder Kit Package	Includes
Esab		
Renegade ES 300i	Power Source Only	Power Source Only
Lincoln Electric		
Invertec V155-S	Stick/TIG Package	Carry Suitcase, Consumables Kit for PTA-17 TIG Torch (KP508), Gas Regulator, PTA-17V TIG torch with Ultra-Flex cable and Twist Mate adapter, Stick electrode holder & 10 ft cable with Twist Mate plug, Work clamp and 10 ft cable with Twist Mate plug
Precision TIG 225	TIG Package w/Foot Control	10 ft Work Cable & Clamp, Foot Amptrol with 25 ft Cable Assembly (K870), Gas Regulator with Hose, PTA-17 150 A TIG torch with 1-Piece 12 ft Cable & Twist Mate Adapter
Square Wave TIG 200	Stick/TIG Package w/Foot Control	200A Stick Electrode Holder, Foot Amptrol with 25 ft Cable & 6-Pin Connector (K870), Gas Regulator/Flowmeter & 10 ft. (3 m) Gas Hose Kit, Ground Clamp and Cable, PTA-17F TIG Torch Ready Pak with 12.5 ft 1-Piece Cable (K1782-14)
Miller Electric		
Diversion 180	TIG Package w/Foot Control	12 ft (3.7 m) work cable with clamp, 12.5 ft (3.8 m) Weldcraft A-150 TIG torch, Regulator/ flow gauge and gas hose, RFCS-RJ45 remote foot control (300432)
Dynasty 400	TIG Package w/Foot Control & Water Cooler	Coolant (4 one-gallon bottles of 043810), Coolmate 3.5, RFCS-14HD remote foot control and receiver (194744), Runner Cart, Weldcraft W-375 torch kit and accessories (301268)
Syncrowave 300	TIG Package w/Foot Control & Water Cooler	Coolant, Coolmate 3S, RFCS-14HD Remote Foot Control and Receiver, Running Gear, Weldcraft W-280 Torch Kit

Welding Processes	Input Voltage (Nominal)	Stick Welding Maximum Output Current	Rated Output @ Duty Cycle	Phase	Input Frequency	Polarity	Welder Kit Package	Item No.
ESAB								
Renegade ES 300i Series								
Stick Welding (SMAW), TIG Welding (GTAW)	480V, 208V	300 A	250 A @ 60%, 200 A @ 100%, 300 A @ 40%	Single-/Three-Phase	50/60 Hz	DC	Power Source Only	**54RZ63**
Lincoln Electric								
Invertec V155-S Series								
Stick Welding (SMAW), TIG Welding (GTAW)	240V, 120V	155 A	145 A @ 30%, 75 A @ 100%, 100 A @ 30%, 100 A @ 100%	Single-Phase	50/60 Hz	DC	Stick/TIG Package	**49JR57**
Precision TIG 225 Series								
Stick Welding (SMAW), TIG Welding (GTAW)	240V, 208V	230 A	110 A @ 60%, 130 A @ 40%	Single-Phase	60 Hz	AC/DC	TIG Package w/ Foot Control	**5JPJ1**
Square Wave TIG 200 Series								
Stick Welding (SMAW), TIG Welding (GTAW)	240V, 120V	170 A	100 A @ 40%, 125 A @ 25%, 130 A @ 60%, 85 A @ 60%, 200 A @ 25%, 160 A @ 40%	Single-Phase	50/60 Hz	AC/DC	Stick/TIG Package w/Foot Control	**54RY17**
Miller Electric								
Diversion 180 Series								
TIG Welding (GTAW)	240V, 208V, 120V	180 A	150 A @ 20%, 125 A @ 35%, 180 A @ 10%	Single-Phase	50/60 Hz	AC/DC	TIG Package w/ Foot Control	**6DLX2**
Dynasty 400 Series								
Air Carbon Arc Cutting and Gouging (CAC-A), Stick Welding (SMAW), TIG Welding (GTAW)	575V, 480V, 240V, 208V, 400V	400 A	250 A @ 60%, 300 A @ 60%	Single-/Three-Phase	50/60 Hz	AC/DC	TIG Package w/Foot Control & Water Cooler	**53RJ18**
Syncrowave 300 Series								
Stick Welding (SMAW), TIG Welding (GTAW)	480V, 240V, 208V	300 A	210 A @ 60%, 175 A @ 100%, 300 A @ 30%	Single-/Three-Phase	50/60 Hz	AC/DC	TIG Package w/Foot Control & Water Cooler	**55XC13**

TIG Torch Kits

TIG torch heads have a rigid neck without a gas valve.

Lincoln Electric—Kits come in a handy carrying case.

Miller Electric—Water-cooled models provide around-the-head cooling to reduce overheating for long torch life.

Maximum Current	TIG Torch Series	For Max. Electrode Dia.	Power Cord Construction	Duty Cycle	Includes	Item No.
Lincoln Electric						
Air-Cooled						
150 A	PTA-17	5⁄32 in	1-Piece	60 %	Carrying Case, Consumables Kit, Harris Flowmeter/Regulator with 10 ft. Gas Hose, Twist-Mate Adapter, Work Clamp & Cable	**6JDT0**
Water-Cooled						
250 A	PTW-20	1⁄8 in	2-Piece	60 %	Carrying Case, Consumables Kit, Harris Flowmeter/Regulator with 10 ft. Gas Hose, Twist-Mate Adapter, Water Hose Coupler & Water Hoses, Work Clamp & Cable	**6JDT1**
Miller Electric						
Water-Cooled						
250 A	W-250	1⁄8 in	3-Piece	100 %	50mm Dinse-Style Connector, Cable Cover, Gas Lens Kit for Water-Cooled Torches (AK4GL), Regulator/ Flowmeter with 5 ft Gas Hose, Work Clamp with 15 ft Cable	**5GWJ4**

Tungsten Electrodes

Dia.	AWS Classification	Welding Current Designation	Miller Electric Item No.	Miller Electric Pkg. Qty.	Uniweld Item No.	Uniweld Pkg. Qty.	Westward Item No.	Westward Pkg. Qty.
2% Lanthanated, Blue								
3⁄32 in	EWLa-2	AC/DC	**22UM21**	10	**5KH61**	10	—	—
Ceriated, Gray								
1⁄16 in	EWCe-2	AC/DC	**6LGU6**	10	—	—	**31GH63**	10
3⁄32 in	EWCe-2	AC/DC	**6ETP7**	10	—	—	**31GH69**	10
1⁄8 in	EWCe-2	AC/DC	**6ETP8**	10	—	—	**31GH66**	10
Pure Tungsten, Green								
3⁄32 in	EWP	AC	**6LGU2**	10	**5KH55**	10	**31GH95**	10
1⁄8 in	EWP	AC	**6LGU3**	10	**5KH56**	10	**31GH92**	10
Rare Earth, Light Blue								
3⁄32 in	EWG	AC/DC	**6ETR7**	10	**5KH58**	10	—	—
Thoriated, Red								
3⁄32 in	EWTh-2	AC/DC	—	—	**5KH52**	10	**49H754**	10
1⁄8 in	EWTh-2	AC/DC	—	—	**5KH53**	10	**49H753**	10

Tungsten Electrode Grinder

For diamond grinding, flatting, and notch-cutting your tungsten electrodes. An enclosed grinding area captures nearly all the excess tungsten electrode dust for safe and easy disposal. Handles tungsten diameters from 0.040" to 3⁄16" (1.0mm to 4.8mm).

Voltage	Input Frequency	Horsepower	Nameplate RPM	Electrode Dia. Range	Minimum Electrode Length	Item No.
110/230V AC	50/60 Hz	1⁄3 hp	1,700 RPM	0.04 in to 0.1875 in	1 3⁄4 in	**54PD31**

TIG Nozzles

- Standard nozzle length

Made of durable alumina material that resists corrosion and has high heat resistance and high thermal conductivity.

Gas Lens 61VA51

Large Dia. Gas Lens 6UHF0

Standard Nozzle 61VA38

Nozzle Nominal Size	Reference Number	Lincoln Electric Item No.	Lincoln Electric Pkg. Qty.	Miller Electric Item No.	Miller Electric Pkg. Qty.
Gas Lens Nozzle					
17- 18 or 26, 9 or 20 TIG Torch Style					
4	53N58	**61VA49**	1	**6UHA8**	10
5	53N59	**61VA50**	1	**6UHA9**	10
6	53N60	**61VA51**	1	**6UHC0**	10
7	53N61	**61VA52**	1	**6UHC1**	10
8	53N61S	**61VA53**	1	**6UHC2**	10
17- 18 or 26 TIG Torch Style					
4	54N18	**61VA55**	1	**6UHE1**	10
5	54N17	**61VA56**	1	**6UHD9**	10
6	54N16	**61VA57**	1	**6UHD7**	10
7	54N15	**61VA58**	1	**6UHD5**	10
8	54N14	**61VA59**	1	**6UHD3**	10
11	54N19	**61VA54**	1	**6UHE2**	10
Large Diameter Gas Lens Nozzle					
17- 18 or 26, 9 or 20 TIG Torch Style					
6	57N75	—	—	**6UHF0**	10
8	57N74	—	—	**6UHE6**	10
10	53N88	—	—	**6UHC7**	10
12	53N87	—	—	**6UHC3**	10
15	53N89	—	—	**6UHD1**	10
Standard Nozzle					
17- 18 or 26, 9 or 20 TIG Torch Style					
4	13N08	**61VA38**	1	**6UGN6**	10
5	13N09	**61VA39**	1	**6UGN7**	10
6	13N10	**61VA40**	1	**6UGH1**	10
7	13N11	**61VA41**	1	**6UGH2**	10
8	13N12	**61VA42**	1	**6UGH3**	10
10	13N13	**61VA37**	1	**6UGN8**	10
17- 18 or 26 TIG Torch Style					
4	10N50	**61VA44**	1	**6UGL9**	10
6	10N48	**61VA46**	1	**6UGH0**	10
7	10N47	**61VA47**	1	**6UGG9**	10
8	10N46	**61VA48**	1	**6UGG8**	10
10	10N45	**61VA43**	1	**6UGL4**	10

TIG Collets

Large Dia. Gas Lens 61VA11

Standard Collet 61VA06

For Max. Electrode Dia.	TIG Torch Application	Reference Number	Lincoln Electric Item No.	Lincoln Electric Pkg. Qty.	Miller Electric Item No.	Miller Electric Pkg. Qty.
Large Dia. Gas Lens						
9 or 20 TIG Torch Style						
1/16 in	Large Diameter Gas Lens	13N22L	—	—	**6UGP9**	2
3/32 in	Large Diameter Gas Lens	13N23L	—	—	**6UGR0**	2
1/8 in	Large Diameter Gas Lens	13N24L	—	—	**6UGR1**	2
17- 18 or 26, 9 or 20 TIG Torch Style						
1/16 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N23	**61VA11**	1	—	—
3/32 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N24	**61VA13**	1	—	—
1/8 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N25	**61VA12**	1	—	—
5/32 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	54N20	**61VA14**	1	—	—
17- 18 or 26 TIG Torch Style						
1/16 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N23	—	—	**6UGL0**	5
3/32 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N24	—	—	**6UGG3**	5
1/8 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	10N25	—	—	**6UGG4**	5
5/32 in	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	54N20	—	—	**6UHE3**	5
Standard Collet						
9 or 20 TIG Torch Style						
1/16 in	Gas Lens, Non-Gas Lens	13N22	**61VA06**	1	**6UGH4**	5
3/32 in	Gas Lens, Non-Gas Lens	13N23	**61VA08**	1	**6UGH5**	5

TIG Torch Back Caps

For TIG Torch Style	Reference Number	Lincoln Electric Item No.	Lincoln Electric Pkg. Qty.	Miller Electric Item No.	Miller Electric Pkg. Qty.
Long					
9 or 20	41V24	**61UZ94**	1	**6UGV4**	2
17- 18 or 26	57Y02	**61UZ97**	1	**6UHF8**	2
Medium					
9 or 20	41V35	**61UZ95**	1	**6UGW3**	2
17- 18 or 26	300M	**61UZ98**	1	**6UGT0**	2
Short					
9 or 20	41V33	**61UZ96**	1	**6UGW2**	2
17- 18 or 26	57Y04	**61UZ99**	1	**6UHG5**	2

Medium 61UZ98

Air Carbon Arc Cutting and Gouging Torches

Hold compatible electrodes for cutting and gouging tasks on metal workpieces.

5UR92

Maximum Current	Cable Length	Minimum Required Air Pressure	Series	Item No.
600 A	10 ft	80 psi	K3000	**61RG55**
1,000 A	10 ft	80 psi	K4000	**5UR92**
1,000 A	7 ft	80 psi	AirPro X4000	**61RG56**

TIG Collet Bodies and Gas Lenses

A collet body holds and positions the tungsten electrode in the TIG torch body and distributes the shielding gas. A gas lens improves the gas flow through the TIG welding torch.

Collet Body 6UGG6

Gas Lens 6UGY6

Large-Dia. Gas Lens 6UGY3

For Max. Electrode Dia.	TIG Torch Application	Reference Number	Miller Electric Item No.	Miller Electric Pkg. Qty.	Lincoln Electric Item No.	Lincoln Electric Pkg. Qty.
Collet Body						
17- 18 or 26 TIG Torch Style						
1/16 in	Non-Gas Lens	10N31	**6UGG6**	5	**61VA22**	1
3/32 in	Non-Gas Lens	10N32	**6UGG7**	5	**61VA24**	1
1/8 in	Non-Gas Lens	10N28	**6UGG5**	5	**61VA23**	1
5/32 in	Non-Gas Lens	406488	**6UGT1**	5	**61VA25**	1
9 or 20 TIG Torch Style						
1/16 in	Non-Gas Lens	13N27	**6UGH7**	5	**61VA17**	1
3/32 in	Non-Gas Lens	13N28	**6UGH8**	5	**61VA19**	1
1/8 in	Non-Gas Lens	13N29	**6UGH9**	5	**61VA18**	1
Gas Lens						
17- 18 or 26 TIG Torch Style						
1/16 in	Gas Lens	45V25	**6UGY6**	2	**61VA33**	1
3/32 in	Gas Lens	45V26	**6UGY7**	2	**61VA35**	1
1/8 in	Gas Lens	45V27	**6UGY8**	2	**61VA34**	1
5/32 in	Gas Lens	45V28	**6UGY9**	2	**61VA36**	1
9 or 20 TIG Torch Style						
1/16 in	Gas Lens	45V43	**6UGZ3**	2	**61VA28**	1
3/32 in	Gas Lens	45V44	**6UGZ4**	2	**61VA30**	1
1/8 in	Gas Lens	45V45	**6UGZ5**	2	**61VA29**	1
Large-Diameter Gas Lens						
17- 18 or 26 TIG Torch Style						
1/16 in	Large Diameter Gas Lens	45V116	**6UGY3**	2	—	—
3/32 in	Large Diameter Gas Lens	45V64	**6UGZ8**	1	—	—
1/8 in	Large Diameter Gas Lens	995795	**6UHH8**	2	—	—
9 or 20 TIG Torch Style						
1/16 in	Large Diameter Gas Lens	45V116S	**6UGY4**	2	—	—
3/32 in	Large Diameter Gas Lens	45V64S	**6UGZ9**	1	—	—
1/8 in	Large Diameter Gas Lens	995795S	**6UHH9**	2	—	—

TIG Insulators and Gaskets

Back Cap Insulator 6UHH5

For TIG Torch Style	TIG Torch Application	Reference Number	Brand	Item No.	Pkg. Qty.
Back Cap Insulator					
9 or 20	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens	9-4	Miller Electric	**6UHH5**	2
17- 18 or 26	Gas Lens, Large Diameter Gas Lens, Non-Gas Lens, Stubby Gas Lens, Stubby Non-Gas Lens	18-7	Miller Electric	**6UGR7**	2
Gas Lens Insulator					
17- 18 or 26	Gas Lens	54N01	Miller Electric	**6UHD2**	2
Large Diameter Gas Lens Insulator					
9 or 20	Large Diameter Gas Lens	54N63-20	Miller Electric	**6UHE5**	2
17- 18 or 26	Large Diameter Gas Lens	54N63	Miller Electric	**6UHE4**	2
Nozzle Insulator					
9 or 20	Gas Lens, Non-Gas Lens	598882	Lincoln Electric	**61VA62**	1
9 or 20	Gas Lens, Non-Gas Lens	598882	Miller Electric	**6UHG6**	2
17- 18 or 26	Gas Lens, Non-Gas Lens	18CG	Lincoln Electric	**61VA63**	1
17- 18 or 26	Gas Lens, Non-Gas Lens	18CG	Miller Electric	**6UGR8**	2
Stubby Nozzle Insulator					
17- 18 or 26	Stubby Non-Gas Lens	18CG20	Miller Electric	**6UGR9**	2

Air Carbon Arc Cutting and Gouging Electrodes

Jointed electrodes can be fed continuously with automated air carbon arc torches. Pointed electrodes are suitable for use in general cutting or gouging applications.

Outside Diameter	L	Maximum Current	Pkg. Qty.	Brand	Item No.
Jointed, Copper Finish/Coating					
5/16 in	14 in	450 A	100	Arcair	**6CER4**
3/8 in	14 in	600 A	100	Arcair	**6CER5**
3/8 in	17 in	600 A	100	Arcair	**6CER7**
1/2 in	14 in	1,000 A	100	Arcair	**6CER6**
1/2 in	17 in	1,000 A	100	Arcair	**6CER8**
Pointed, Copper Finish/Coating					
1/8 in	12 in	90 A	100	Arcair	**6CET2**
5/32 in	12 in	150 A	50	Arcair	**6CET3**
5/32 in	12 in	200 A	1	Westward	**41R169**
3/16 in	12 in	250 A	1	Westward	**41R166**
3/16 in	12 in	250 A	50	Arcair	**6CET4**
1/4 in	12 in	300 A	1	Westward	**41R165**
1/4 in	12 in	400 A	50	Arcair	**6CET5**
5/16 in	12 in	350 A	10	Westward	**41R168**
5/16 in	12 in	450 A	50	Arcair	**6CET6**
3/8 in	12 in	250 A	1	Westward	**41R167**
3/8 in	12 in	600 A	50	Arcair	**6CET7**
1/2 in	12 in	900 A	1	Westward	**41R164**
1/2 in	14 in	1,000 A	50	Arcair	**6CET8**

Jointed 6CER6

ESAB
54RZ54

Hobart
60MK36

Lincoln
61UY27

Miller
48VF61

Multiprocess Welders

Input Voltage (Nominal)	Polarity	Max. Amp MIG	TIG	Stick	Phase	Input Frequency	Welder Kit Package	Item No.
ESAB								
Rebel EMP 215ic Series								
240V, 208V, 120V	DC	240 A	240 A	240 A	Single-Phase	50/60 Hz	MIG/Stick/TIG Package	**46KL41**
Rebel EMP 235ic Series								
240V, 208V, 120V	DC	250 A	250 A	250 A	Single-Phase	50/60 Hz	MIG/Stick Package	**54RZ54**
	DC	250 A	250 A	250 A	Single-Phase	50/60 Hz	MIG/Stick Package w/Running Gear	**54RZ56**
Hobart								
Multi-Handler 200 Series								
240V, 120V	DC	200 A	200 A	200 A	Single-Phase	50/60 Hz	MIG/Stick/TIG Package	**60MK36**
Lincoln Electric								
Flextec 350X Series								
575V, 460V, 400V	DC	425 A	425 A	425 A	Three-Phase	50/60 Hz	MIG Package w/Flex Feed 84 Wire Feeder	**61UY27**
LE31MP® Series								
120V	DC	95 A	120 A	90 A	Single-Phase	60 Hz	MIG/Stick Package	**55EL84**
Pipefab Series								
575V, 460V, 400V, 240V, 208V	DC	400 A	400 A	400 A	Three-Phase	50/60 Hz	MIG Package w/ Dual-Wire Feeder	**61UY01**
Miller Electric								
Dynasty 280 DX Multiprocess Series								
575V, 460V, 400V, 240V, 208V	AC/DC	280 A	280 A	280 A	Single-/ Three-Phase	50/60 Hz	MIG/Stick/TIG Package	**61TC69**
Multimatic 200 Series								
240V, 120V	DC	200 A	150 A	150 A	Single-Phase	50/60 Hz	MIG/Stick/TIG Package	**40GT18**
PipeWorx 400 Series								
460V, 240V	DC	400 A	350 A	400 A	Three-Phase	50/60 Hz	Power Source w/ Running Gear	**48VF61**

Series	Welding Processes	Welder Kit Package	Includes
Esab			
Rebel EMP 215ic	Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	MIG/Stick/ TIG Package	17V-Style TIG Torch, Contact Tips, Drive Rolls, Electrode Holder, Sample Spool of 0.03 in Wire, Stick Electrodes, Tweco Fusion 180 A MIG Gun, Tweco Ground Clamp with Leads, Victor Argon Flowgauge Regulator & 12.5 ft Hose
Rebel EMP 235ic		MIG/Stick Package	0.035 in Wire, Contact Tips, Drive Rolls, Electrode Holder, ESAB Atom Arc 7018 Electrodes, Return Clamp with Leads, Tweco Spray Master 250 MIG Gun, Victor Argon Flowmeter Regulator with 12½ ft Hose
		MIG/Stick Package w/ Running Gear	0.035 in Wire, Contact Tips, Drive Rolls, Electrode Holder, ESAB Atom Arc 7018 Electrodes, Return Clamp with Leads, Single Cylinder Cart, Tweco Spray Master 250 MIG Gun, Victor Argon Flowmeter Regulator with 12½ ft Hose
Hobart			
Multi-Handler 200	Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	MIG/Stick/ TIG Package	0.03 in and 0.035 in Contact Tips, Dual-Gauge Regulator with Gas Hose, Electrode Holder with 10 ft Cable, MIG Gun with 10 ft Cable, Quick Select Drive Roll for 0.024 in or 0.03/0.035 in Solid Wire & 0.03/0.035 in Flux-Cored Wire, Sample Spool of 0.03 in Solid MIG Wire, TIG Consumables Kit, TIG Torch with 12.5 ft Cable, Work Clamp with 10 ft Cable
Lincoln Electric			
Flextec 350X	Air Carbon Arc Cutting and Gouging (CAC-A), Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	MIG Package w/Flex Feed 84 Wire Feeder	Flex Feed 84 Single (K5000-2), Harris Flowmeter Regulator and Hose (3100211), Inverter and Wire Feeder Cart (K3059-4), Magnum PRO Curve 300 Welding Gun (K2951-2-10-45), Tweco to Lug Ground Clamp (K1803-2)
LE31MP®	Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	MIG/Stick Package	(3) 0.025 in Tapered Contact Tips (KH831), (3) 0.035 in Tapered Contact Tips (KH833), 0.025 - 0.035 in Dual Track Drive Roll for MIG & Flux-Cored Welding (KP2948-1), Gas Nozzle for MIG Welding (KH835), Gasless Nozzle for Flux-Cored Welding (KH836), Harris 3000290 Gas Regulator (S25805) & 52 in Hose for use with Argon/Carbon Dioxide Blend Gases, Magnum Pro 100L Gun & 10 ft Cable Assembly with Brass Connection & 8-Pin Trigger Connector (K530-7), Sample Spool of 0.025 in SuperArc L-56 MIG Wire, Sample Spool of 0.035 in Innershield NR-211-MP Flux-Cored Wire
Pipefab		MIG Package w/ Dual-Wire Feeder	.045" Knurled Drive Roll Kit (4 Roll Kit), (1) Magnum PRO .035 Tapered Contact Tip, (1) Magnum PRO .045 Tapered Contact Tip, (1) Magnum PRO ½ Flush Nozzles, (1) Magnum PRO ⅜ Tapered-Flush, (2) .035/.045 V Groove Drive Roll Kits (4 Roll Kit), 15FT 2/0 Work Lead & GC500 Clamp, Harris Flowmeter and Hoses, Magnum PRO Curve 200 15FT Ready-Pak, Magnum PRO Curve 300 15FT Ready-Pak, PIPEFAB Cart and Dual Bottle Rack, PIPEFAB Feeder
Miller Electric			
Dynasty 280 DX Multiprocess	Air Carbon Arc Cutting and Gouging (CAC-A), Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	MIG/Stick/ TIG Package	(2) 0.035/0.045 in V-Groove Drive Rolls, (2) 0.045 in Centerfire Contact Tips, (3) 0.035 in Centerfire Contact Tips, 200 A Stick Electrode Holder, 300 A Bernard BTB Gun, 300 A Work Clamp with 15 ft. Cable, A-200 Air-Cooled TIG Torch, AK2C TIG Torch Consumables Kit, ArcReach SuitCase 12, Flow Gauge Regulator with 12 ft. Gas Hose, RFCS-14 HD Foot Control
Multimatic 200	Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)		(2) Contact Tips for 0.03 in Wire, (2) Contact Tips for 0.035 in Wire, 10 ft MDX-250 MIG Gun, 10 ft Work Cable & Clamp with 25 mm Dinse-Style Connector, AK2C TIG Consumables Kit, Electrode Holder with 13 ft Cable & 25 mm Dinse-Style Connector, Flow Gauge Regulator & Gas Hose for Argon or Argon/ Carbon Dioxide Mix, Quick Select Drive Roll for 0.024 in or 0.03/0.035 in Solid Wire & 0.03/0.035 in Flux-Cored Wire, RFCS-6M Foot Control, Weldcraft A-150 TIG Torch with Dinse-Style Connector
PipeWorx 400	Air Carbon Arc Cutting and Gouging (CAC-A), Flux-Cored Welding (FCAW), MIG Welding (GMAW), Stick Welding (SMAW), TIG Welding (GTAW)	Power Source w/ Running Gear	(2) 15 ft PipeWorx 300A MIG Guns (195400), Cable Kit with 25 ft Work Sense Lead (300367), PipeWorx Dual Feeder with Drive Rolls (300366), Running Gear with Dual Cylinder Rack (300368)

Lincoln
13Y739

Engine-Driven Welders

Feature an electric generator that produces power to operate lighting and power tools.

Stick Welding Output @ Duty Cycle	Horsepower	Continuous Auxiliary Power	Generator Fuel Type	Polarity	Phase	Welder Type	Item No.
Hobart							
Champion Elite 225 Series							
225 A @ 25 V, 100%	23 hp	9,500 W	Gasoline	AC/DC	Single-Phase	with GFCI Receptacles	**44YW26**
Lincoln Electric							
Bulldog 5500 Series							
100 A @ 25 V, 60%, 125 A @ 20 V, 30%	9 hp	4,000 W	Gasoline	AC	Single-Phase	with GFCI Receptacles	**13Y739**
Eagle 10,000 Plus Series							
210 A @ 25 V, 100%, 225 A @ 25 V, 40%	23 hp	9,000 W	Gasoline	DC	Single-Phase	Base Model	**5JPH6**
Outback 185 Series							
130 A @ 25 V, 60%, 150 A @ 25 V, 20%	14 hp	5,000 W	Gasoline	DC	Single-/Three-Phase	Base Model	**13Y741**
Miller Electric							
Big Blue 400 Pro Series							
300 A @ 32 V,100%, 350 A @ 27 V, 100%, 400 A @ 24 V,100%	20 hp	10,000 W	Diesel	DC	Three-Phase	Base Model	**408M97**
Big Blue 600 Air Pak Series							
500 A @ 40 V, 100%, 575 A @ 43 V, 100%, 600 A @ 44 V, 60%	66 hp	20,000 W	Diesel	DC	Three-Phase	Base Model	**408N08**
Blue Star 185 Series							
150 A @ 25 V, 100%, 185 A @ 25 V, 20%	13 hp	6,200 W	Gasoline	DC	Single-Phase	with GFCI Receptacles	**40GT17**
Bobcat 260 LP Series							
225 A @ 25 V, 100%, 260 A @ 25 V, 100% (DC), 260 A @ 25 V, 60%	21 hp	9,500 W	Liquid Propane	AC/DC	Single-Phase	with GFCI Receptacles	**56HM30**
Fusion 160 Series							
110 A @ 24.4 V, 100%, 110 A @ 24.4 V, 100% (Power Shift 240 V), 160 A @ 26.4 V, 20%, 160 A @ 26.4 V, 20% (Power Shift 240 V), 90 A @ 23.6 V, 40% (Power Shift 120 V)	13.4 hp	6,200 W	Gasoline	DC	Single-Phase	with GFCI Receptacles	**443V86**
Trailblazer 302 Air Pak Series							
280 A @ 32 V, 100%	27 hp	11,000 W	Gasoline	AC/DC	Single-Phase	with GFCI Receptacles	**49WM38**

Stick Welders

ESAB—Resists power fluctuations even while working on long extension cables up to 300 ft. (12 AWG size).

Hobart—Precise amperage control allows you to adjust output by as little as one-amp increments.

Lincoln Electric—5JPG3 has a front-mounted AC/DC polarity switch and full-range amperage selector switch. 6FKG4 features a full-range continuous current control dial with indicator.

Miller Electric—53AY42 has a Miller X-Case that protects unit and eases transport. Hot Start technology with 404J60 provides quick, reliable starting.

Input Voltage (Nominal)	Polarity	Stick Welding Maximum Output Current	Stick Welding Output @ Duty Cycle	Kit Includes	Item No.
ESAB					
Rogue ES 180i Series					
120V	DC	180 A	110 A @ 24.4 V, 25% (120 V), 116 A @ 24.6 V, 60% (230 V), 180 A @ 27.2 V, 25% (230 V), 55 A @ 22.2 V, 100 % (120 V), 70 A @ 22.8 V, 60% (120 V), 90 A @ 23.6 V, 100% (230 V)	Shoulder Strap, Stick Electrode Holder with Cable, Work Cable with Clamp	**60HK07**
Hobart					
Stickmate 160i Series					
120V, 240V	DC	160 A	160 A @ 240 V @ 30%, 65 A @120 V, 20%	Shoulder Strap, Stick Electrode Holder with Cable, Work Cable with Clamp	**404J62**
Lincoln Electric					
AC/DC 225/125 Series					
240V	AC/DC	225 A	225 A @ 25 V, 20%	Stick Electrode Holder with Cable, Work Cable with Clamp	**5JPG3**
Idealarc 250 Series					
208V, 480V, 240V	AC/DC	300A	250 A @ 30 V, 30%	Power Source Only	**6FKG4**
Miller Electric					
Maxstar 161 S Series					
120V, 240V	DC	160 A	110 A @ 24.4 V @ 100% (240 V), 160 A @ 26.4 V, 60% (240 V), 60 A @ 22.4 V, 100% (120 V), 90 A @ 23.6 V, 30 % (120 V)	Case, Stick Electrode Holder with Cable, Work Cable with Clamp	**53AY42**
Thunderbolt 160 Series					
120V, 240V	DC	160 A	160 A @ 27.8 V, 30% (240 V), 65 A @ 20.7 V @ 20% (120 V)	Stick Electrode Holder with Cable, Work Cable with Clamp	**404J60**

Lincoln 6FKG4

Stick Welding Electrode Ovens

- Fiberglass insulation
- 18 in max. electrode length

Help ensure high-quality welds by preventing welding rods and electrodes from absorbing moisture from the atmosphere.

Benchtop—Models have a circular shape to promote even heat distribution. 6YE40 features a spring latch that tightly secures the insulated lid for oven transport, while 5HJ70 has a lockable door. Removable shelves with 467C99 oven allow for the heating of welded parts.

Portable with Handles—Dryrod ovens feature a spring latch that tightly secures the insulated lid and a handle that can be extended or retracted for oven transport or storage. 467D01 is a cylinder-shaped oven with a rod elevator that allows you to remove electrodes with ease and a fill tab for fast loading of electrodes into the oven.

Portable with Wheels—The wheels have a steel hub and ball bearings for long life.

Benchtop 6YE40

Portable with Handles 467D01

Portable with Wheels 3KB73

Maximum Weight Capacity	Input Voltage (Nominal)	Heating Elements	Operating Temp. Range	Chamber W x D	Color	Weight	Brand	Item No.
Benchtop								
150 lb	240V, 100V	600W Wire Wrap	100 °F to 300 °F	14 in x 19.75 in	Yellow	64 lb	Dryrod	**6YE40**
350 lb	100V	1000W Dual Volt	100 °F to 550 °F	18 in x 19 in	Red	90 lb	Lincoln Electric	**467C99**
400 lb	240V, 100V	1000W Dual Volt	100 °F to 550 °F	18 in x 19 in	Gray	90 lb	Dryrod	**5HJ70**
Portable, with Handles								
10 lb	100V	75W Wire Wrap	32 °F to 300 °F	3 in x 20 in	Red	10.5 lb	Lincoln Electric	**467D01**
20 lb	240V, 100V	70W Dual Volt	100 °F to 300 °F	4 in x 20 in	Yellow	15.25 lb	Dryrod	**3KB72**
50 lb	240V, 100V	300W Wire Wrap	100 °F to 300 °F	8 in x 20 in	Yellow	37 lb	Dryrod	**6YE39**
Portable, with Wheels								
50 lb	240V, 100V	300W Wire Wrap	100 °F to 300 °F	8 in x 20 in	Yellow	43 lb	Dryrod	**3KB73**

Stick Welding Electrode Holder and Cable Kits

Maximum Current	Wire Gauge	Cable Connection Type	Electrode Cable Length	Work Cable Length	Brand	Item No.
Electrode Holder & Cable Kit						
200 A	#4/0	Twist Mate	12 ½ ft	10 ft	Lincoln Electric	**12C012**
400 A	#2/0	Lug, Tweco	10 ft	10 ft	Miller Electric	**49WM87**
Ground Clamp, Electrode Holder & Cable Kit						
200 A	#2/0	Lug	50 ft	50 ft	Miller Electric	**1EC88**
300 A	#2/0	Lug	100 ft	50 ft	Miller Electric	**6DLW8**
350 A	#2/0	Lug	50 ft	50 ft	Miller Electric	**6DLW9**
400 A	#3/0	Dinse	15 ft	12 ft	Esab	**6NU77**
Welding Helmet, Ground Clamp, Electrode Holder & Cable Kit						
400 A	#2/0	Lug	35 ft	30 ft	Lincoln Electric	**6JDV4**

Welding Helmet, Ground Clamp, Electrode Holder & Cable Kit 6JDV4

Stick Welding Electrode Storage Containers

- Electrode length: up to 14"
- Weight capacity: 10 lb.

Also known as rod guards, they hold electrodes when not in use and protect them from moisture and other contaminants.

Color	Max. Operating Temp.	Brand	Item No.
Red	225 °F	Lincoln Electric	**6JDW3**
Yellow	250 °F	Safetube	**5JC13**

5JC13

Stick Welding Electrode Holders

Clamp-Style 44ZE40

Twist-Style 12A758

Maximum Current	For Maximum Electrode Diameter	Wire Gauge	Duty Rating	Holder Jaw Material	Cable Connection Type	Brand	Item No.
Clamp-Style							
200 A	5⁄32 in	2/0	Heavy Duty	Copper Alloy	Ball Point Screw	Tweco	**44ZE40**
300 A	7⁄32 in	2/0	Heavy Duty	Copper Alloy	Ball Point Screw	Tweco	**44ZE32**
Twist-Style							
400 A	¼ in	3/0	Heavy Duty	Steel	Ball Point Screw	Bernard	**12A758**

CD, Flanged
Fully Threaded
K4339

Drawn Arc,
Collar Stud
K4350

Drawn Arc, Fully
Threaded
K4344

Weld Studs

- UNC-2A-RH Thread Type

These threaded fasteners take less time to install than fasteners that require drilling, tapping, punching, or screwing.

Thread Size	▶CHOOSE: Stud Length	Stud Diameter	Weld Base Diameter	▶CHOOSE: Pkg. Qty.	Item No.
CD, Flanged Fully Threaded					
18-8 Stainless Steel					
#10-32	⅜", ½", ⅝", ¾"	0.187 in	—	100, 1000	**K4339**
#6-32	⅜", ½"	0.138 in	—	100, 1000	**K4340**
#8-32	⅜", ½", ⅝", ¾"	0.164 in	—	100, 1000	**K4341**
¼"-20	⅜", ½", ⅝", ¾", 1"	0.25 in	—	100, 1000	**K4342**
Steel					
#10-32	⅜", ½", ¾"	0.187 in	—	100, 1000	**K4335**
#6-32	⅜", ½"	0.138 in	—	100, 1000	**K4336**
#8-32	⅜", ½", ⅝", ¾"	0.164 in	—	100, 1000	**K4337**
¼"-20	½", ⅝", ¾", 1"	0.25 in	—	100, 1000	**K4338**
Drawn Arc, Collar Stud with Threaded Extension					
Steel					
⅜"-16	½", ⅝", 1", 1⅛"	—	33/100 in	100, 1000	**K4350**
Drawn Arc, Fully Threaded					
18-8 Stainless Steel					
¼"-20	¾", ⅞", 1", 1⅛", 1¼", 1½"	—	¼ in	100, 1000	**K4344**
5/16"-18	¾", 1", 1¼", 1½"	—	5/16 in	100, 1000	**K4348**
⅜"-16	¾", ⅞", 1", 1⅛", 1¼", 1½"	—	⅜ in	100, 1000	**K4346**
½"-13	1¼", 1½", 2"	—	½ in	100, 1000	**K4675**
Steel					
¼"-20	¾", ⅞", 1", 1⅛", 1¼", 1½"	—	¼ in	100, 1000	**K4345**
5/16"-18	¾", 1", 1¼", 1½"	—	5/16 in	100, 1000	**K4349**
⅜"-16	¾", ⅞", 1", 1⅛", 1¼", 1½", 2"	—	⅜ in	100, 1000	**K4347**
½"-13	1", 1¼", 1½", 2"	—	½ in	100, 1000	**K4343**

Stud Welding Ferrule Grips

Also known as closed ferrule grips, these copper alloy ferrule grips hold most types of drawn arc weld studs to secure them in place on compatible welding guns during the drawn arc welding process.

12A859

Nom. Size	Neck Diameter (in.)	Major Diameter (in.)	Foot Size	Item No.
¼ in	0.38 in	⅞ in	Small	**12A857**
5/16 in	0.45 in	⅞ in	Small	**12A858**
⅜ in	0.51 in	⅞ in	Small	**12A859**
½ in	0.65 in	⅞ in	Small	**12A860**
⅝ in	0.79 in	1 ⅛ in	Medium	**12A861**

Stud Welders

Capacitive Discharge—Process allows small diameter studs to be welded to very thin material. The entire weld cycle is completed in several milliseconds so welds can be made to thin metal sheets without burn through, discoloration, or distortion. This process allows the stud welding of dissimilar metals.

Drawn Arc—Allows most sizes or types of weld studs to be welded. The weld studs are manufactured from weldable material with a special arc stud tip. The welding process creates a full fusion weld that becomes stronger than the stud itself. Suitable for use with aluminum, mild steel, and stainless steel.

Drawn Arc
36TP32

Input Voltage	For Max. Stud Thickness	Duty Cycle	Weight	Item No.
Capacitive Discharge				
110 V AC	¼ in	¼ in 12/min	26 lb	**36TP29**
110 V AC	⅜ in	#10 16/min, #4 24/min, #6 24/min, #8 16/min, ¼ in 12/min, 12 ga 24/min, 5/16 in 12/min	47 lb	**55KN48**
110 V AC	7/16 in	#10 16/min, #4 24/min, #6 24/min, #8 16/min, ¼ in 12/min, 12 ga 24/min, ⅜ in 10/min, 5/16 in 12/min	64 lb	**55KN49**
Drawn Arc				
208 V AC, 230 V AC, 460 V AC	½ in	⅜ in 8/min	77 lb	**36TP31**
230 V AC, 460 V AC, 575 V AC	⅝ in	½ in 8/min, ¼ in 20/min, ⅜ in 13/min, 5/16 in 15/min, ⅝ in 4/min	194 lb	**36TP32**

B Stud
45TP23

Morse Taper
12A855

Nelson-Style
12A844

Stud Welding Collets and Chucks

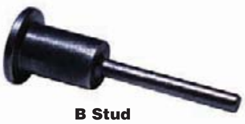
Stud welding collets and chucks securely hold weld studs on a stud welding gun and transfer current and pressure to the studs during welding.

B Collet—Copper material and for use with Pro Weld (B-stops) capacitive discharge stud welding equipment.

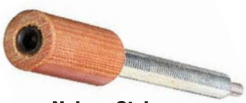
Morse Taper—Copper alloy construction and for use with most drawn arc stud welding equipment.

Nelson Style Collet—Copper alloy material and have Nelson-style stop pins and are for use with Nelson capacitive discharge stud welding equipment.

Thread Size	For Stud Length to	Overall Dia.	Overall Length	Brand	Item No.
B Collet					
—	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP18**
#10	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP23**
#4	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP19**
#5	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP20**
#6	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP21**
#8	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP22**
0.25 in	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP24**
0.375 in	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP26**
0.3125 in	¼ in to 1 ¼ in	⅜ in	1 ⅜ in	Pro Weld	**45TP25**
Morse Taper Chuck					
¼"-20	¼ in to 4 in	⅜ in	2 ¼ in	Nelson Stud Welding Inc.	**12A852**
5/16"-18	⅜ in to 4 in	⅜ in	2 ¼ in	Nelson Stud Welding Inc.	**12A853**
⅜"-16	⅝ in to 4 in	⅜ in	2 ¼ in	Nelson Stud Welding Inc.	**12A854**
½"-13	⅝ in to 4 in	⅜ in	2 ½ in	Nelson Stud Welding Inc.	**12A855**
⅝"-11	⅝ in to 4 in	⅜ in	3 in	Nelson Stud Welding Inc.	**12A856**
Nelson Style Collet					
#10 -24	¼ in to 2 ½ in	⅜ in	2 ⅜ in	Nelson Stud Welding Inc.	**12A846**
#6 -32	¼ in to 2 ½ in	⅜ in	2 ⅜ in	Nelson Stud Welding Inc.	**12A844**
#8 -32	¼ in to 2 ½ in	⅜ in	2 ⅜ in	Nelson Stud Welding Inc.	**12A845**
¼"-20	¼ in to 2 ½ in	⅜ in	2 ⅜ in	Nelson Stud Welding Inc.	**12A847**



B Stud
45TP35



Nelson-Style
12A848

Stud Welding Stop Pins

Prevent weld studs from penetrating too far into the workpiece in capacitor discharge stud welding applications. Also called stops and backup pins, they install into compatible collets on capacitor discharge stud welding guns.

B Stop—For use with Pro Weld CD-212, CD-312, and CD-512 series welders.

Nelson Style Stop Pins—For use with Nelson NCD and NCD+ series welders.

For Stud Length	Overall Length	Material	Brand	Item No.
B Stop				
¼"	1 ¼ in	Steel	Pro Weld	**45TP27**
¼", 3/8", 1/2", 5/8", 3/4", 1", 1 1/8", 1 1/4"	1 ¼ in	Steel	Pro Weld	**45TP35**
⅜"	1 ⅛ in	Steel	Pro Weld	**45TP28**
½"	1 in	Steel	Pro Weld	**45TP29**
⅝"	⅞ in	Steel	Pro Weld	**45TP30**
¾"	¾ in	Steel	Pro Weld	**45TP31**
1"	½ in	Steel	Pro Weld	**45TP32**
1¼"	¼ in	Steel	Pro Weld	**45TP33**
1⅜"	⅛ in	Steel	Pro Weld	**45TP34**
Nelson Style Stop Pin				
¼", 3/8", 1/2", 5/8"	—	Metal/Phenolic	Nelson Stud Welding Inc.	**12A848**
¾", 7/8", 1", 1 1/8"	—	Metal/Phenolic	Nelson Stud Welding Inc.	**12A849**
1¼", 1 3/8", 1 1/2", 1 5/8"	—	Metal/Phenolic	Nelson Stud Welding Inc.	**12A850**
1¾", 1 7/8", 2", 2 1/8"	—	Metal/Phenolic	Nelson Stud Welding Inc.	**12A851**

Plasma Cutters

- Single-phase, except 28MG90 is three-phase

AirForce™ 27i and 40i—Inverter-based cutters can cut through most conductive metals. Operate from standard 120 or 240VAC power with MVP power cord. AirForce 40i adds Pilot Arc Controller that allows you to cut expanded/perforated metals and painted or coated surfaces without retriggering the torch.

Tomahawk 375 Air—Has an internal air compressor that enables operation in environments where external compressed air is not available.

Tomahawk 1000—Features PowerConnect® technology that automatically senses and adjusts input power from 200 to 600V. Cutting output remains steady throughout the entire input voltage range.

Spectrum® 375 X-TREME—Automatically connects to 115V or 240V. Includes 12-ft. torch and work clamp cables, MVP power cord, plugs, storage case, and extra consumables.

Spectrum® 625 X-TREME—Ultra-Quick Connect™ torch cable allows portability and easy interchangeability of handheld or machine torches, for manual or automated cutting. Flexible quick-connect ground cable is easy to position. Each includes torch with cable, work clamp with 20-ft. cable, 12-ft. power cord, MVP adapters with 5-15P (120V,15A) and 6-50P (240V, 50A) plugs, and extra consumables.

AirCut 15C—Lightweight cutting system has a built-in air compressor, to eliminate the need for an external compressor. Provides outstanding cutting power right out of the box and has easy-to-use hand torch switch controls.

CUTMASTER®—Powerful, lightweight units have hand torch or hand pendant control. Auto Pilot restart reignites the pilot while cutting expanded metals for more efficient operation. Include 75° angle torch with 20-ft. lead (except 15-ft. lead with 56LE80), 10-ft. input power cable (except 9-ft. cable with 56LE80), work cable and clamp, spare parts kit.

Hobart 56LF05

Lincoln 28MG88

Thermal Dynamics 56LE80

Series	Input Frequency	Maximum Output Current	Plasma Cutting Output @ Duty Cycle	For Maximum Material Thickness	Required Air Flow	Maximum Pressure - Air Compressor	Plasma Torch	Item No.
Hobart								
AirForce 27i	50/60 Hz	27 A	20 A @ 88V DC, 60% (120 V), 27 A @ 92V DC, 35% (120 V), 30 A @ 92V DC, 40% (240 V)	⅜ in	5 cfm	90 psi	12 ft Handheld	**44YW18**
AirForce 40i	60 Hz	40 A	20 A @ 88V DC, 60% (120 V), 27 A @ 91V DC, 35% (120 V), 40 A @ 140V DC, 60% (240 V)	⅝ in	6 cfm	90 psi	12 ft Handheld	**56LF05**
Lincoln Electric								
Tomahawk 375 Air	60 Hz	25 A	13 A @ 85.2 V, 100%, 18 A @ 87.2 V, 60%, 25 A @ 90 V, 35%	½ in	2.1 cfm	80 psi	10 ft Handheld	**28MG88***
Tomahawk 625	50/60 Hz	40 A	24 A @ 89.6 V, 100%, 29 A @ 91.8 V, 60%, 40 A @ 96 V, 35%	¾ in	2.1 cfm	80 psi	20 ft Handheld	**28MG89**
Tomahawk 1000	50/60 Hz	60 A	40 A @ 96 V, 100%, 60 A @ 104 V, 50%	1 ½ in	4.6 cfm	87 psi	25 ft Handheld	**28MG90**
Tomahawk 1500	50/60 Hz	100 A	100 A @ 140 V, 60% (3-Phase), 60 A @ 140 V, 100% (1-Phase, 200-208 V), 60 A @ 140 V, 100% (1-Phase, 230 V), 60 A @ 140 V, 100% (3-Phase), 80 A @ 140 V, 60% (1-Phase, 200-208 V), 80 A @ 140 V, 80% (1-Phase, 230 V), 80 A @ 140 V, 80% (3-Phase)	1 ½ in	6.7 cfm	87 psi	50 ft Handheld	**61UX92**
	50/60 Hz	100 A		1 ½ in	6.7 cfm	87 psi	25 ft Handheld	**61UX91**
	50/60 Hz	100 A		1 ½ in	6.7 cfm	87 psi	Torch Not Included	**61UX79**
Miller Electric								
Spectrum 375 X-TREME	50/60 Hz	30 A	20 A @ 88V DC, 60% (120 V), 27 A @ 92V DC, 35% (120 V), 30 A @ 92V DC, 40% (240 V)	⅜ in	5 cfm	120 psi	12 ft Handheld	**13Z845**
Spectrum 625 X-TREME	60 Hz	40 A	20 A @ 88V DC, 60% (120 V), 27 A @ 91V DC, 35% (120 V), 40 A @ 140V DC, 60% (240 V)	⅝ in	6 cfm	90 psi	12 ft Handheld	**49X315**
	60 Hz	40 A		⅝ in	6 cfm	90 psi	20 ft Handheld	**49X316**
Thermal Dynamics								
AirCut 15C	60 Hz	15 A	15 A, 35%	3⁄16 in	—	—	20 ft Handheld	**11G203***
Cutmaster 40	50/60 Hz	40 A	20 A, 100%, 30 A, 60%, 40 A, 40%	1 in	2.8 cfm	90 psi	15 ft Handheld	**56LE80**
Cutmaster 58	50/60 Hz	60 A	100% @ 30 A, 40% @ 60 A, 60% @ 50 A	1 in	6.7 cfm	75 psi	20 ft Handheld	**61RG78**
Cutmaster 60i	50/60 Hz	60 A	40 A, 100%, 50 A, 60%, 60 A, 50%	1 ½ in	5 cfm	90 psi	20 ft Handheld	**54TA04**
	50/60 Hz	60 A		1 ½ in	5 cfm	90 psi	50 ft Handheld	**54TA05**
	50/60 Hz	60 A		1 ½ in	5 cfm	90 psi	Torch Not Included	**54TA06**
Cutmaster A80	50/60 Hz	80 A	100% @ 70 Amps, 80% @ 80 Amps	½ in	6.7 cfm	75 psi	25 ft Machine	**61RG79**
Cutmaster 82	50/60 Hz	80 A	55 A, 100%, 65 A, 60%, 80 A, 40%	1 ½ in	6.7 cfm	70 psi	20 ft Handheld	**11G216**
Cutmaster 102	50/60 Hz	100 A	100 A, 60%, 70 A, 100%, 80 A, 80%	1 ¾ in	7.5 cfm	70 psi	20 ft Handheld	**20UJ67**
Cutmaster A120	50/60 Hz	120 A	100% @ 100 Amps, 80% @ 120 Amps	⅝ in	6.7 cfm	80 psi	25 ft Machine	**61RG80**
Cutmaster 152	50/60 Hz	120 A	100 A, 100%, 120 A, 80%	2 in	7.5 cfm	70 psi	20 ft Handheld	**20UJ68**

Built-in Air Compressor.

Plasma Torches

These replacement, handheld plasma torches connect to compatible plasma cutters to make precise cuts or gouges in metals such as steel, stainless steel, and aluminum. They create minimal slag and cause minimal distortion when used on thin materials.

Lincoln 33RM81

Miller 13Z846

Thermal Dynamics 54TA07

Series	Maximum Current	Duty Cycle	Cable Length	For Rear Connection Type	Head Angle	Compatible with Series	Item No.
Lincoln Electric							
LC105	100 A	60 %	25 ft	—	—	Tomahawk 1500	**61UX82**
LC25	25 A	35 %	10 ft	—	—	Tomahawk 375 Air	**61UX80**
LC40	40 A	35 %	20 ft	—	—	Tomahawk 625	**61UX81**
LC65	60 A	50 %	25 ft	9-Pin	70 °	Tomahawk 1000	**33RM81**
Miller Electric							
XT30	30 A	40 %	12 ft	Lead	80 °	Spectrum 375 X-TREME	**13Z846**
XT30C	30 A	40 %	20 ft	Lead	—	Spectrum 375	**38G634**
XT40	40 A	60 %	20 ft	Quick Disconnect	—	Spectrum 625 X-TREME	**49WM69**
XT60	60 A	40 %	20 ft	Quick Disconnect	—	Spectrum 875, Spectrum 875 Auto-Line	**49WM75**
	60 A	40 %	50 ft	Quick Disconnect	80 °		**31CF07**
Thermal Dynamics							
SL100	120 A	60 %	20 ft	ATC	75 °	Cutmaster 102, Cutmaster 152	**20UJ70**
	120 A	60 %	20 ft	RPT (O2B)	75 °		**2CZF2**
SL40	40 A	40 %	15 ft	ATC	75 °	Cutmaster 42	**11G208**
SL60	80 A	40 %	20 ft	ATC	75 °	Cutmaster 52, Cutmaster 82	**20UJ69**
	80 A	40 %	20 ft	RPT (O2B)	75 °		**2CZF1**
	80 A	40 %	20 ft	ATC	90 °		**20UJ71**
SL60QD	80 A	40 %	50 ft	ATC	75 °		**54TA08**
	80 A	40 %	20 ft	ATC	75 °		**54TA07**

Plasma Torch Tips and Nozzles

Thermal Dynamics 2CZG5

Focus the stream of plasma flowing out of plasma torches and are compatible with specific brands and series of plasma torches.

Compatible with Series	Cutting Configuration	Maximum Current	For Plasma Torch Type	Item No.
American Torch Tip				
Nozzle				
PT-23, PT-27	Drag Shield Cutting, Standoff Cutting	30 A	Handheld	**41T166**
	Drag Shield Cutting, Standoff Cutting	50 A	Handheld	**41T167**
	Drag Shield Cutting, Standoff Cutting	80 A	Handheld	**41T169**
Lincoln Electric				
Direct Contact Nozzle				
LC40	Drag Tip Cutting	40 A	Handheld, Machine	**61UZ36**
Gouging Nozzle				
LC105	Gouging	80 A	Handheld, Machine	**61UZ81**
	Gouging	100 A	Handheld, Machine	**61UZ82**
Nozzle				
LC25	Standoff Cutting	25 A	Handheld	**61UZ29**
LC40	Standoff Cutting	40 A	Handheld, Machine	**61UZ35**
LC65	Drag Tip Cutting	40 A	Handheld	**33RM86**
	Standoff Cutting	50 A	Handheld, Machine	**61UZ44**
	Standoff Cutting	60 A	Handheld, Machine	**61UZ45**
LC105	Drag Shield Cutting, Standoff Cutting	60 A	Handheld, Machine	**61UZ84**
	Drag Shield Cutting, Standoff Cutting	80 A	Handheld, Machine	**61UZ85**
	Drag Shield Cutting, Standoff Cutting	100 A	Handheld, Machine	**61UZ86**
Shielded Contact Nozzle				
LC65	Drag Shield Cutting	40 A	Handheld	**33RM87**
Miller Electric				
Tip				
ICE-60T	Drag Shield Cutting, Standoff Cutting	60 A	Handheld	**3RDV9**
ICE-55C	Drag Shield Cutting, Standoff Cutting	55 A	Handheld	**38G612**
	Extended Cutting	55 A	Handheld	**38G614**
ICE-40C	Drag Shield Cutting, Standoff Cutting	40 A	Handheld	**3RDV5**
ICE-40C, ICE-55C	Extended Cutting	40 A	Handheld	**3RDV7**
ICE-25C, ICE-25CX, ICE-27C, ICE-27T	Drag Shield Cutting, Standoff Cutting	27 A	Handheld	**3RDR5**
XT30, XT30C	Drag Shield Cutting, Standoff Cutting	30 A	Handheld	**15F415**
XT40	Drag Shield Cutting, Standoff Cutting	40 A	Handheld	**13Z847**
XT60	Drag Shield Cutting, Standoff Cutting	60 A	Handheld	**49X329**
	Gouging	60 A	Handheld	**49X336**
Thermal Dynamics				
Standoff Tip				
SL100, SL60	Standoff Cutting	40 A	Handheld	**2CZG1**
	Standoff Cutting	50 A	Handheld	**2CZG2**
	Standoff Cutting	60 A	Handheld	**2CZG3**
	Standoff Cutting	80 A	Handheld	**2CZG4**
	Standoff Cutting	100 A	Handheld	**2CZG5**
	Standoff Cutting	120 A	Handheld	**49NW75**
Tip				
SL40	Drag Tip Cutting	40 A	Handheld	**11G211**
SL60	Drag Tip Cutting	30 A	Handheld	**2CZF8**
	Drag Tip Cutting	40 A	Handheld	**2CZF9**
	Drag Tip Cutting	60 A	Handheld	**20UJ75**

Plasma Torch Retaining Caps

Lincoln 61UZ30

Also known as retaining cups or shield cups, they secure plasma torch nozzles, swirl rings, and other consumables in place on plasma torches.

Compatible with Series	Cutting Configuration	Maximum Current	For Plasma Torch Type	Item No.
Lincoln Electric				
LC25	Standoff Cutting	25 A	Handheld	**61UZ30**
LC40	Drag Shield Cutting, Standoff Cutting	40 A	Handheld, Machine	**61UZ38**
LC105	Drag Shield Cutting, Gouging, Standoff Cutting	100 A	Handheld, Machine	**61UZ87**
Miller Electric				
XT30, XT30C, XT40, XT40M	Drag Shield Cutting, Extended Cutting, Gouging, Standoff Cutting	40 A	Handheld	**15F416**
ICE-40C, ICE-40T, ICE-50C, ICE-50CM, ICE-55C, ICE-55CM	Drag Shield Cutting, Extended Cutting, Gouging, Standoff Cutting	50 A	Handheld	**38G611**
XT60, XT60M	Extended Cutting, Gouging, Standoff Cutting	60 A	Handheld	**49X333**
ICE-100T, ICE-100TM, ICE-60TM, ICE-80CX, ICE-80CXM, ICE-80T, ICE-80TM	Drag Shield Cutting, Extended Cutting, Gouging, Standoff Cutting	60 A	Handheld	**38G622**
Thermal Dynamics				
SL100, SL60	Standoff Cutting	100 A	Handheld	**2UPZ2**
SL100, SL60	Drag Tip Cutting, Gouging, Standoff Cutting	100 A	Handheld	**3JXG3**
PCH/M-100XL, PCH/M-102, PCH/M-60, PCH/M-62, PCH/M-75, PCH/M-76, PCH/M-80	Drag Tip Cutting, Gouging	55 A	Handheld, Machine	**3LVN8**

Plasma Torch Electrodes

Conduct current to create and maintain an arc for plasma cutting tasks and are compatible with specific brands and series of plasma torches.

Compatible with Series	For Plasma Torch Type	Item No.
Lincoln Electric		
Standard		
LC25	Handheld	**61UZ28**
LC40	Handheld, Machine	**61UZ33**
LC105	Handheld, Machine	**61UZ76**
Miller Electric		
Standard		
XT30, XT30C	Handheld	**15F414**
XT60	Handheld	**49X330**
ICE-60T	Handheld	**3RDV8**
ICE-40C, ICE-55C	Handheld	**3RDR6**
Extended		
ICE-40C, ICE-55C	Handheld	**3RDV6**
Thermal Dynamics		
Standard		
SL40	Handheld	**11G212**
SL100, SL60	Handheld	**2CZG8**
PCH/M-102, PCH/M-62	Handheld, Machine	**49NW77**
PCH-10, PCH-20, PCH-25	Handheld	**3LVL5**
PCH-25/38, PCH-26, PCH/M-28, PCH/M-35, PCH/M-40	Handheld, Machine	**3LVL8**
PCH/M-51	Handheld, Machine	**3LVN3**
PCH/M-51	Handheld, Machine	**3LVN4**
Extended		
PCH/M-102, PCH/M-62	Handheld, Machine	**49NW78**

Lincoln 61UZ28

Plasma Torch Shield Caps and Deflectors

Thermal Dynamics 2UPZ3

Protect plasma torch nozzles from damage during plasma cutting applications.

Compatible with Series	Cutting Configuration	Maximum Current	For Plasma Torch Type	Item No.
American Torch Tip				
Heat Shield				
PT-23, PT-27	Drag Shield Cutting	—	Handheld	**41R987**
Shield				
PT-23	Drag Shield Cutting	—	Handheld	**41T170**
Lincoln Electric				
Drag Shield				
LC65	Drag Shield Cutting	60 A	Handheld	**33RM91**
LC105	Drag Shield Cutting	100 A	Handheld, Machine	**61UZ79**
Gouge Shield				
LC65	Gouging	60 A	Handheld	**33RM92**
LC105	Gouging	100 A	Handheld, Machine	**61UZ80**
Miller Electric				
Drag Shield				
ICE-100T, ICE-60T, ICE-60TM, ICE-80CX, ICE-80CXM, ICE-80T, ICE-80TM	Drag Shield Cutting	100 A	Handheld, Machine	**38G619**
ICE-50C, ICE-50CM, ICE-55C, ICE-55CM	Drag Shield Cutting	55 A	Handheld, Machine	**38G613**
XT30, XT30C	Drag Shield Cutting	30 A	Handheld	**15F417**
XT40	Drag Shield Cutting	40 A	Handheld	**38G629**
XT60	Drag Shield Cutting	60 A	Handheld	**49X331**
Gouge Shield				
XT60	Gouging	60 A	Handheld	**49X335**
Thermal Dynamics				
Deflector				
SL100, SL60	Drag Shield Cutting, Drag Tip Cutting, Gouging, Standoff Cutting	100 A	Handheld	**3JXG8**
Drag Shield Cap				
SL100, SL60	Drag Shield Cutting	60 A	Handheld	**2UPY9**
	Drag Shield Cutting	100 A	Handheld	**2UPZ1**
Gouging Shield Cap				
SL100, SL60	Gouging	100 A	Handheld	**2UPZ3**

Thermal Dynamics 2CZG7

Plasma Torch Start Cartridge and Swirl Rings

Also known as start cartridges, gas distributors, or baffles, they direct the plasma stream as it travels around the electrode and into the nozzle on compatible plasma torches.

Compatible with Series	For Plasma Torch Type	Item No.
Lincoln Electric		
Swirl Ring		
Tomahawk 375 Air, Tomahawk 625	Handheld	**61UZ31**
Tomahawk 1500	Handheld	**61UZ88**
Miller Electric		
Swirl Ring		
Spectrum 375, Spectrum 375 X-TREME	Handheld	**15F413**
Spectrum 875	Handheld	**38G623**
Spectrum 875, Spectrum 875 Auto-Line	Handheld	**49X332**
Spectrum 2050, Spectrum 625	Handheld	**38G610**
Thermal Dynamics		
Gas Distributor		
PCH/M-100XL, PCH/M-102, PCH/M-60, PCH/M-62, PCH/M-75, PCH/M-76, PCH/M-80	Handheld, Machine	**3LVN9**
Start Cartridge		
SL40	Handheld	**11G213**
SL100, SL60	Handheld	**2CZG7**

MIG Welding Wire

- Welding current designation: aluminum, stainless steel, carbon steel (DECP); copper (AC/DCEP)

▶CHOOSE: Wire Dia.	Welded Tensile Strength	Welded Yield Strength	▶CHOOSE: Weight	Series	For Joining	For Welding Position	Min. Req. Tensile Strength	Min. Req. Yield Strength	Brand	Item No.
Aluminum										
ER4043										
0.03", 0.047", 0.035"	—	—	1 lb, 16 lb, 20 lb	SuperGlaze 4043	Aluminum	Flat, Horizontal, Overhead, Vertical-Up	29 ksi	—	Lincoln	**K4265**
0.03", 0.035", 0.047", 0.063"	34 ksi	28 ksi	1 lb, 16 lb, 20 lb	Alloy 4043				10 ksi	Alcotec	**K4262**
ER5356										
0.035", 0.047", 0.063"	—	—	1 lb, 16 lb, 20 lb	SuperGlaze 5356	Aluminum	Flat, Horizontal, Overhead, Vertical-Up	38 ksi	—	Lincoln	**K4270**
0.035", 0.047", 0.063"	46 ksi	30 ksi	1 lb, 16 lb, 20 lb	Alloy 5356				19 ksi	Alcotec	**K4267**
Carbon Steel										
ER70S-6										
0.023", 0.03", 0.035", 0.045"	70 ksi	58 ksi	2 lb, 11 lb, 33 lb, 44 lb	ER70S-6	—	All Position	70 ksi	58 ksi	Westward	**K4279**
0.024", 0.03", 0.035", 0.045"	70 ksi	58 ksi	11 lb, 33 lb, 44 lb	ER70S-6					Hobart	**K4280**
ER70S-3										
0.03", 0.035"	70 ksi	58 ksi	2 lb, 11 lb, 33 lb	ER70S-3	—	All Position	70 ksi	58 ksi	Hobart	**K4276**
ER70S-2										
0.025", 0.03", 0.035"	70 ksi	58 ksi	2 lb, 11 lb	ER70S-2	—	All Position	70 ksi	58 ksi	Hobart	**K4273**
0.035", 0.045"	76 ksi	63 ksi	33 lb	SuperArc L-52					Lincoln	**K4274**
Cast Iron										
Not Classified										
0.035", 0.045"	—	—	33 lb	Techalloy 55	—	All Position	Not Rated	Not Rated	Lincoln	**K4286**
Copper										
ERCuSi-A										
0.035", 0.045"	54.25 ksi	26.5 ksi	33 lb	SuperGlaze SiBR	Brass to Copper, Copper	All Position	50 ksi	—	Lincoln	**K4288**
Low-Alloy Steel										
ER80S-B2										
0.035", 0.045"	80 ksi	68 ksi	11 lb	ER80S-B2	Low-Alloy Steel	All Position	80 ksi	68 ksi	Westward	**K4291**
ER80S-D2										
0.03", 0.035", 0.045"	80 ksi	68 ksi	33 lb	ER80S-D2	Low-Alloy Steel	All Position	80 ksi	68 ksi	Westward	**K4293**
Mild Steel										
ER70S-6										
0.023", 0.03", 0.035", 0.045"	84 ksi	70 ksi	2 lb, 11 lb	Sureweld S-6	—	All Position	70 ksi	58 ksi	Esab	**K4295**
ER70S-6 H4										
0.03", 0.035", 0.045"	86 ksi	72 ksi	11 lb, 44 lb	Spoolarc 86	—	All Position	70 ksi	58 ksi	Esab	**K4296**
Nickel										
ERNiCr-3										
0.035", 0.045"	98 ksi	57 ksi	33 lb	Techalloy 606	Nickel Alloy to Carbon Steel, Nickel Alloy to Stainless Steel	All Position	52 ksi	52 ksi	Lincoln	**K4298**
Stainless Steel										
ER308, ER308L										
0.03", 0.035"	85 ksi	59 ksi	10 lb, 30 lb	ER308/308L	Stainless Steel	All Position	88 ksi	59 ksi	Hobart	**K4308**
0.035", 0.045"	88 ksi	63 ksi	33 lb	Blue Max MIG 308LCF			59 ksi		Lincoln	**K4305**
ER308Si, ER308LSi										
0.03"	86 ksi	55 ksi	2 lb, 10 lb	ER308LSi	Stainless Steel	All Position	85 ksi	55 ksi	Hobart	**K4310**
0.063", 0.035", 0.045", 0.03"	92 ksi	66 ksi	25 lb, 33 lb	Blue Max MIG 308LSi			55 ksi		Lincoln	**K4306**
ER309, ER309L										
0.023", 0.03", 0.035", 0.063", 0.045"	85 ksi	58 ksi	2 lb, 10 lb, 30 lb	ER309/309L	Stainless Steel to Carbon Steel, Stainless Steel	All Position	85 ksi	58 ksi	Westward	**K4317**
ER309Si, ER309LSi										
0.045", 0.03", 0.035", 0.063"	86 ksi	65 ksi	25 lb, 33 lb	Blue Max MIG 309LSi	Stainless Steel to Carbon Steel	All Position	64 ksi	64 ksi	Lincoln	**K4315**
ER316, ER316L										
0.03", 0.035", 0.045", 0.063"	—	—	33 lb	Blue Max MIG 316L	Stainless Steel	All Position	55 ksi	55 ksi	Lincoln	**K4323**
ER316Si, ER316LSi										
0.063", 0.03", 0.035", 0.045"	81 ksi	59 ksi	25 lb, 33 lb	Blue Max MIG 316LSi	Stainless Steel	All Position	64 ksi	64 ksi	Lincoln	**K4326**
0.03", 0.035", 0.045"	90 ksi	64 ksi	2 lb, 10 lb, 30 lb	ER316LSi			90 ksi		Westward	**K4328**

Metal-Cored Welding Wire

- Welding current designation: DCEP

▶CHOOSE: Wire Dia.	Welded Tensile Strength	Welded Yield Strength	▶CHOOSE: Weight	Series	For Joining	For Welding Position	Min. Req. Tensile Strength	Min. Req. Yield Strength	Brand	Item No.
Carbon Steel										
E70C-6M										
0.035 in, 0.045 in, 0.052 in, 0.0625 in	70 ksi	58 ksi	11 lb, 33 lb	E70C-6M	Carbon Steel	Flat, Horizontal	70 ksi	58 ksi	**Westward**	**K4681**
E70C-6M H4										
0.045 in, 0.052 in, 0.0625 in	75 ksi to 90 ksi	65 ksi to 80 ksi	33 lb, 50 lb	Metalshield MC-6	Carbon Steel	All Position	70 ksi	58 ksi	**Lincoln**	**K4602**
0.052 in, 0.0625 in	75 ksi to 90 ksi	65 ksi to 80 ksi	50 lb	Metalshield MC-6					**Lincoln**	**K4679**
E70C-6M H4, E70C-6M-H8, E70T15-M20A4-CS1-H4										
0.045 in, 0.052 in, 0.0625 in	75 ksi to 90 ksi	65 ksi to 80 ksi	33 lb, 50 lb	Metalshield MC-706	Carbon Steel	Flat, Horizontal	70 ksi	58 ksi	**Lincoln**	**K4680**
E70C-6M-H4, E70T15-M20A4-CS1-H4, E70T15-M21A4-CS1-H4										
0.045 in, 0.052 in, 0.0625 in	75 ksi to 90 ksi	65 ksi to 80 ksi	33 lb, 50 lb	Metalshield MC-70 XLS	Carbon Steel	All Position	70 ksi	58 ksi	**Lincoln**	**K4601**
Cast Iron										
Not Classified										
0.035 in, 0.045 in	58 ksi	43 to 63 ksi	1 lb, 2 lb, 10 lb, 25 lb	—	Cast Iron to Carbon Steel, Cast Iron	All Position	58 ksi	43 ksi	**Westward**	**K4600**

Flux-Cored Welding Wire

- Welding current designation: stainless steel (DCEP)
- Welding position: carbon steel (flat, horizontal, overhead, vertical-down, vertical-up)

AWS Classification	▶CHOOSE: Wire Dia.	Welded Tensile Strength	Welded Yeild Strength	▶CHOOSE: Weight	Series	For Joining	For Welding Position	Min. Req. Tensile Strength	Min. Req. Yield Strength	Brand	Item No.
Carbon Steel Flux-Cored Wire for General Steel Fabrication											
Gas-Shielded Shielding Type											
E71T-9C	0.045 in, 0.052 in, 0.0625 in	87 ksi to 93 ksi	80 to 89 ksi	15 lb, 33 lb	Dual Shield 710X	Carbon Steel	All Position	70 ksi	58 ksi	**Esab**	**K4607**
E71T-9M	0.045 in, 0.052 in, 0.0625 in	89 ksi to 92 ksi	80 to 89 ksi	33 lb, 50 lb	UltraCore HD-M					**Lincoln**	**K4614**
Self-Shielded Shielding Type											
E71T-8	0.068 in	74 ksi to 79 ksi	60 to 69 ksi	25 lb	Innershield NR-203MP	Carbon Steel	All Position	70 ksi	58 ksi	**Lincoln**	**K4627**
Carbon Steel Flux-Cored Wire for Structural Steel Fabrication											
Gas-Shielded Shielding Type											
E70T-9C	0.0625 in, 0.0781 in	81 ksi to 86 ksi	70 to 79 ksi	50 lb	UltraCore 70C	Carbon Steel	Flat, Horizontal	70 ksi	58 ksi	**Lincoln**	**K4603**
Self-Shielded Shielding Type											
E71T-8	0.068 in, 0.072 in, 0.0781 in	83 ksi to 89 ksi	70 to 79 ksi	25 lb, 56 lb, 13.5 lb	Innershield NR-232	Carbon Steel	All Position	70 ksi	58 ksi	**Lincoln**	**K4625**

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Flux-Cored Welding Wire

AWS Classification	▶CHOOSE: Wire Dia.	Welded Tensile Strength	Welded Yeild Strength	▶CHOOSE: Weight	Series	For Joining	For Welding Position	Min. Req. Tensile Strength	Min. Req. Yield Strength	Brand	Item No.
Carbon Steel Flux-Cored Wire for Thin-Gauge Sheet Metal											
Self-Shielded Shielding Type											
E71T-11	0.03 in, 0.035 in, 0.045 in, 0.0625 in	90 ksi	60 to 69 ksi	10 lb, 33 lb	Coreshield 11	Carbon Steel	All Position	70 ksi	58 ksi	**Esab**	**K4619**
Low-Alloy Steel Flux-Cored Wire for Thin-Gauge Sheet Metal											
Self-Shielded Shielding Type											
E71TG-G	0.045 in, 0.068 in, 0.0781 in	80 to 89 ksi	70 to 79 ksi	10 lb, 25 lb, 8 lb, 14 lb	Innershield NR-212	—	All Position	70 ksi	58 ksi	**Lincoln**	**K4630**
Low-Alloy Steel Seismic-Certific Flux-Cored Wire for Structural Steel Fabrication											
Gas-Shielded Shielding Type											
E81T1-Ni1C	0.045 in, 0.052 in, 0.0625 in	90 to 99 ksi	80 to 89 ksi	33 lb, 50 lb	UltraCore 81Ni1C-H	—	All Position	80 ksi	68 ksi	**Lincoln**	**K4628**
Stainless Steel E308 Flux-Cored Welding Wire											
Gas-Shielded Shielding Type											
E308LT1-1/4	0.045 in, 0.0625 in	83 ksi	56 ksi to 57 ksi	10 lb, 33 lb	UltraCore 308L P	Stainless Steel	All Position	75 ksi	—	**Lincoln**	**K4634**
Stainless Steel E316 Flux-Cored Welding Wire											
Gas-Shielded Shielding Type											
E316LT1-1/4	0.035 in, 0.045 in	70 ksi	Not Specified	11 lb, 33 lb	E316LT1-1/4	Stainless Steel	All Position	70 ksi	Not Rated	**Westward**	**K4640**

TIG Welding Rods

- 36" Overall length

▶CHOOSE: Rod Dia.	Welding Current Designation	Welded Tensile Strength	Welded Yeild Strength	▶CHOOSE: Weight	For Joining	Tensile Strength (Minimum Required)	Yield Strength (Minimum Required)	Brand	Item No.
Aluminum									
ER4043									
1/16", 3/32", 1/8"	AC	29 ksi	—	1 lb, 10 lb	Aluminum	29 ksi	Not Rated	Westward	**K4455**
3/32", 1/8"	AC	29 ksi	—	10 lb				Hobart	**K4456**
ER5356									
1/16", 3/32", 1/8"	AC	38 ksi	—	1 lb, 10 lb	Aluminum	38 ksi	Not Rated	Westward	**K4458**
1/16", 3/32", 1/8"	DCEP	240 to 296 N/mm2	110 to 120 N/mm2	10 lb			—	Lincoln	**K4459**
Carbon Steel									
ER70S-6									
0.035", 0.045", 1/16", 3/32", 1/8", 5/32"	DCEN	70 ksi	58 ksi	1 lb, 10 lb	Carbon Steel	70 ksi	58 ksi	Westward	**K4462**
1/16", 3/32", 1/8", 5/32"	DCEN	—	—	20 lb, 30 lb, 50 lb				Lincoln	**K4463**
ER70S-2									
0.035", 0.045", 1/16", 3/32", 1/8"	DCEN	70 ksi	58 ksi	1 lb, 10 lb	Carbon Steel	70 ksi	58 ksi	Westward	**K4460**
1/16", 3/32", 1/8", 5/32"	DCEN	77 ksi	85 to 96 ksi	20 lb, 30 lb, 50 lb				Lincoln	**K4461**
Cast Iron									
ERNi-CI									
1/16", 3/32", 1/8"	DCEN	66 ksi	36 ksi	1 lb	Cast Iron to Carbon Steel, Cast Iron, Cast Iron to Stainless Steel	66 ksi	36 ksi	Westward	**K4464**
Not Classified									
1/16", 3/32", 1/8"	DCEN	89 ksi	62 ksi	1 lb, 10 lb	Cast Iron, Cast Iron to Carbon Steel	89 ksi	62 ksi	Westward	**K4465**
Copper									
ERCu									
1/16", 3/32", 1/8"	AC, DCEN	8 ksi	29 ksi	1 lb, 10 lb	Copper	8 ksi	29 ksi	Westward	**K4466**
Low-Alloy Steel									
ER80S-B2									
1/16", 3/32", 1/8"	DCEN	80 ksi	68 ksi	1 lb, 10 lb	Low-Alloy Steel	80 ksi	68 ksi	Westward	**K4471**
3/32", 1/8"	DCEN	98 to 113 ksi	82 ksi	30 lb				Lincoln	**K4473**
ER80S-D2, ER90S-D2									
1/16", 3/32", 1/8"	DCEN	105 to 120 ksi	94 ksi	30 lb	Low-Alloy Steel	80 ksi	68 ksi	Lincoln	**K4482**
ER80S-D2/ER90S-D2; EA3K									
3/32", 1/8"	DCEN	110 ksi	95 ksi	10 lb	Low-Alloy Steel	80 ksi	68 ksi	Esab	**K4477**
ER90S-B3									
1/16", 3/32", 1/8", 5/32"	DCEN	94 ksi	79 ksi	10 lb	Low-Alloy Steel	90 ksi	78 ksi	Esab	**K4479**
3/32", 1/8"	DCEN	90 ksi	78 ksi	1 lb, 10 lb				Westward	**K4480**
ER100S-1									
3/32", 1/8"	DCEN	100 ksi	88 ksi	10 lb	Low-Alloy Steel	100 ksi	88 ksi	Westward	**K4469**
Magnesium									
ERAZ61A									
1/16", 3/32", 1/8"	AC, DCEN	44 ksi	30 ksi	1 lb	Magnesium	44 ksi	30 ksi	Westward	**K4483**
ERAZ92A									
1/16", 3/32", 1/8"	AC, DCEN	25 ksi	14 ksi	1 lb	Magnesium	25 ksi	14 ksi	Westward	**K4484**
Mild Steel									
ER70S-6; EH11K									
1/16", 3/32", 1/8", 5/32"	DCEN	86 ksi	72 ksi	10 lb	Carbon Steel	70 ksi	58 ksi	Esab	**K4487**
ER70S-2 H4									
1/16", 3/32", 1/8"	DCEN	82 ksi	70 ksi	10 lb	Carbon Steel	70 ksi	58 ksi	Esab	**K4485**
Nickel									
ERNiCr-3									
1/16", 3/32", 1/8"	DCEN	80 ksi	52 ksi	10 lb	Nickel-Chromium to Nickel-Chromium	80 ksi	52 ksi	Westward	**K4488**
Stainless Steel									
ER308, ER308H									
1/16", 3/32", 1/8"	—	—	—	30 lb	Stainless Steel		—	Lincoln	**K4499**
ER308, ER308L									
1/16", 3/32", 1/8"	DCEN	88 ksi	59 ksi	1 lb, 10 lb	Stainless Steel	88 ksi	59 ksi	Hobart	**K4496**
1/16", 3/32", 1/8", 5/32"	DCEN	—	—	10 lb, 30 lb				Lincoln	**K4497**
ER308Si, ER308LSi									
1/16", 3/32", 1/8"	DCEN	—	—	30 lb	Stainless Steel	85 ksi	55 ksi	Lincoln	**K4498**
ER310									
1/16", 3/32", 1/8"	DCEN	—	—	30 lb	Stainless Steel	80 ksi	—	Lincoln	**K4505**
1/8"	DCEN	—	—	10 lb				Westward	**K4504**
ER312									
0.035", 0.045", 1/16", 3/32", 1/8"	DCEN	109 ksi	78 ksi	10 lb, 1 lb	Stainless Steel to Carbon Steel	109 ksi	78 ksi	Westward	**K4506**
ER316, ER316L									
0.035", 0.045", 1/16", 3/32", 1/8", 5/32", 3/16"	DCEN	86 ksi	58 ksi	1 lb, 10 lb	Stainless Steel	86 ksi	58 ksi	Westward	**K4508**
3/32", 1/8"	DCEN	86 ksi	58 ksi	10 lb				Hobart	**K4511**
ER347									
1/16", 3/32", 1/8"	DCEN	—	—	30 lb	Stainless Steel	86 ksi	57 ksi	Lincoln	**K4515**
ER2209									
3/32", 1/8"	DCEN	—	—	30 lb	Stainless Steel	108 ksi	93 ksi	Lincoln	**K4493**
Tool Steel									
Not Classified									
1/16", 3/32", 1/8"	DCEN	Not Rated	—	1 lb, 5 lb	—	Not Rated	Not Rated	Westward	**K4516**
1/16", 3/32", 1/8"	DCEN	Not Rated	—	1 lb, 5 lb				Westward	**K4517**
1/16", 3/32", 1/8"	DCEN	Not Rated	—	1 lb, 5 lb				Westward	**K4518**

Stick Welding Electrodes

▶CHOOSE: Rod Dia.	Welding Current Designation	Welded Tensile Strength	Welded Yeild Strength	▶CHOOSE: Weight	For Joining	For Welding Position	Tensile Strength (Min. Req)	Yield Strength (Min. Req)	Brand	Item No.
Aluminum										
E4043										
3/32", 1/8"	DCEP	14 ksi	20 ksi	1 lb, 5 lb	Aluminum	Flat, Horizontal	14 ksi	20 ksi	Westward	**K4351**
Carbon Steel										
5/32", 3/16"	AC, DCEP	76 ksi	67 ksi	5 lb, 50 lb	Carbon Steel	All Position	60 ksi	48 ksi	Esab	**K4356**
E6010										
3/32", 1/8", 5/32"	DCEP	60 ksi	48 ksi	5 lb, 10 lb, 50 lb	Carbon Steel	All Position	60 ksi	48 ksi	Hobart	**K4357**
3/32", 1/8", 5/32", 3/16"	DCEP	86.9 ksi	72.9 ksi	10 lb, 50 lb					Esab	**K4354**
E6011										
3/32", 1/8", 5/32"	AC, DCEP	60 ksi	48 ksi	5 lb, 10 lb, 50 lb	Carbon Steel	All Position	60 ksi	48 ksi	Hobart	**K4358**
3/32", 1/8", 5/32"	AC, DCEP	76 ksi	67 ksi	5 lb, 50 lb					Esab	**K4356**
3/32", 1/8", 5/32"	AC, DCEP	83 to 86 ksi	67 to 71 ksi	5 lb, 20 lb, 50 lb					Lincoln	**K4359**
E6013										
3/32", 1/8"	AC, DCEN, DCEP	81 ksi	70 ksi	5 lb, 50 lb	Carbon Steel	All Position	60 ksi	48 ksi	Esab	**K4365**
E7014										
3/32", 1/8", 5/32"	AC, DCEN, DCEP	81 ksi	73 ksi	5 lb, 10 lb	Carbon Steel	All Position	70 ksi	58 ksi	Hobart	**K4371**
E7018 H4R										
3/32", 1/8", 5/32"	AC, DCEP	74 to 88 ksi	62 to 74 ksi	30 lb, 50 lb	Low-Alloy Steel	All Position	70 ksi	58 ksi	Lincoln	**K4382**
3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	AC, DCEP	78 ksi	68 ksi	10 lb, 50 lb	Carbon Steel, Carbon Steel to Low-Alloy Steel			57 ksi	Esab	**K4375**
E7018-1 H4R										
3/32", 1/8", 5/32"	AC, DCEP	78 to 86 ksi	64 to 72 ksi	30 lb, 50 lb	Low-Alloy Steel	All Position	70 ksi	58 ksi	Lincoln	**K4386**
1/8", 5/32"	AC, DCEP	79 to 91 ksi	64 to 77 ksi	30 lb					Lincoln	**K4381**
E7018 H8										
3/32", 1/8", 5/32"	AC, DCEP	75 to 90 ksi	63 to 80 ksi	20 lb, 50 lb	Low-Alloy Steel	All Position	70 ksi	58 ksi	Lincoln	**K4385**
E7024										
1/8", 5/32", 3/16", 7/32", 1/4"	AC, DCEN, DCEP	77 to 86 ksi	66 to 71 ksi	50 lb	Carbon Steel	Flat, Horizontal	70 ksi	58 ksi	Lincoln	**K4389**
Cast Iron										
ENi-CI										
3/32", 1/8", 5/32"	DCEP	40 to 65 ksi	38 to 60 ksi	1 lb, 5 lb	Cast Iron to Carbon Steel, Cast Iron	All Position	40 ksi	38 ksi	Westward	**K4393**
3/32", 1/8", 5/32"	DCEP	—	—	24 lb, 30 lb					Lincoln	**K4392**
Low-Alloy Steel										
E8018-B2 H4R										
3/32", 1/8", 5/32"	AC, DCEP	93 to 99 ksi , 88 to 93 ksi	78 to 85 ksi , 72 to 78 ksi	24 lb, 25 lb, 30 lb, 50 lb	Low-Alloy Steel	Flat, Horizontal, Overhead, Vertical-Up	80 ksi	67 ksi	Lincoln	**K4404**
E8018-C1 H4R										
3/32", 1/8"	AC, DCEP	82 to 89 ksi	67 to 76 ksi	30 lb	Low-Alloy Steel	Flat, Horizontal, Overhead, Vertical-Up	80 ksi	67 ksi	Lincoln	**K4672**
3/32", 1/8", 5/32", 3/16", 1/4"	AC, DCEP	82 to 89 ksi	67 to 76 ksi	50 lb					Lincoln	**K4405**
E8018-C3 H4R										
3/32", 1/8", 5/32", 3/16", 7/32"	AC, DCEN, DCEP	80 to 98 ksi	73 to 86 ksi	30 lb, 50 lb	Low-Alloy Steel	Flat, Horizontal, Overhead, Vertical-Up	80 ksi	68 ksi	Lincoln	**K4672**
E9018-B3 H4R										
3/32", 1/8", 5/32"	AC, DCEP	102 to 104 ksi , 94 to 99 ksi	86 to 88 ksi , 77 to 84 ksi	24 lb, 30 lb, 50 lb	Low-Alloy Steel	Flat, Horizontal, Overhead, Vertical-Up	90 ksi	77 ksi	Lincoln	**K4406**
Nickel										
ENiCrFe-2										
3/32", 1/8", 3/16"	DCEP	80 ksi	—	5 lb	Nickel-Chromium-Iron Alloy to Carbon Steel, Nickel-Chromium-Iron Alloy to Stainless Steel, Nickel-Chromium-Iron Alloy	All Position	80 ksi	—	Westward	**K4408**
Stainless Steel										
E308-17, E308L-17										
1/8", 5/32", 3/16"	AC, DCEP	85 to 92 ksi	62 to 68 ksi	30 lb	Stainless Steel	Flat, Horizontal, Overhead, Vertical-Up	75 ksi	—	Lincoln	**K4417**
E308-16, E308L-16										
1/8", 5/32", 3/16"	AC, DCEP	78 to 86 ksi	54 to 61 ksi	30 lb	Stainless Steel	Flat, Horizontal, Overhead, Vertical-Up	75 ksi	54 ksi	Lincoln	**K4415**
E308-16/E308L-16										
3/32", 1/8", 5/32"	DCEN	75 ksi	57 ksi	5 lb, 40 lb	Stainless Steel	Flat, Horizontal, Vertical-Down, Vertical-Up	75 ksi	54 ksi	Esab	**K4413**
E309-16/E309L-16										
3/32", 1/8", 5/32"	DCEN	75 ksi	65 ksi	5 lb, 40 lb	Stainless Steel	Flat, Horizontal, Vertical-Down, Vertical-Up	75 ksi	56 ksi	Esab	**K4419**
E316-16, E316L-16										
1/16", 3/32", 1/8", 5/32"	AC, DCEP	70 ksi	56 ksi	1 lb, 5 lb, 10 lb	Stainless Steel	Flat, Horizontal, Overhead, Vertical-Up	70 ksi	56 ksi	Westward	**K4431**
1/8", 5/32", 3/16"	AC, DCEP	81 to 85 ksi	62 to 65 ksi	30 lb					Lincoln	**K4430**
E347-16										
3/32", 1/8", 5/32", 3/16"	AC, DCEP	75 ksi	57 ksi	5 lb	Stainless Steel	Flat, Horizontal, Overhead, Vertical-Up	75 ksi	57 ksi	Westward	**K4438**
1/8", 5/32", 3/16"	AC, DCEP	97 ksi	—	30 lb					Lincoln	**K4434**

Hardfacing Stick Electrodes

- 14" Overall length

▶CHOOSE: Rod Dia.	Welding Current Designation	Welded Max. Rockwell Hardness	▶CHOOSE: Weight	Series	For Welding Position	Brand	Item No.
Abrasion & Impact							
1/8", 3/32"	AC, DCEP	60 HRC	1 lb, 5 lb	BD7000	Flat, Horizontal	Westward	**K4442**
1/8", 5/32"	AC, DCEP	48 HRC	40 lb	Wearshield 44		Lincoln	**K4441**
Build-Up							
1/8", 3/16", 5/32"	AC, DCEN	54 HRC	5 lb	HardCover 480	Flat, Horizontal, Overhead, Vertical-Up	Westward	**K4450**
3/16", 5/32"	AC, DCEP	55 HRC	10 lb	Stoody 2110	Flat	Esab	**K4445**
Metal-to-Earth, Severe Abrasion							
1/8", 3/16", 5/32"	AC, DCEP	49 HRC	10 lb	Stoody 31	Flat, Horizontal	Esab	**K4451**
1/8", 3/16", 5/32"	AC, DCEP	57 HRC	10 lb	Stoody 35	Flat	Esab	**K4677**
3/16", 5/32"	AC, DCEP	46 HRC	10 lb	Stoody 33	All Position	Esab	**K4676**
Severe Abrasion							
1/8", 3/16", 5/32"	AC, DCEP	62 HRC	40 lb	Wearshield 60	Flat, Horizontal	Lincoln	**K4453**
1/8", 3/16", 5/32"	AC, DCEP	55 HRC	40 lb	Wearshield ME		Lincoln	**K4678**

Gas Welding Rods

- 36" overall length
- Welding position: flat, horizontal

Overall Dia.	Tensile Strength (As Welded)	Tensile Strength (Minimum Required)	1 lb Item No.	10 lb Item No.
Carbon Steel Gas Welding Rod				
1/16 in	45 ksi	45 ksi	**41R243**	**41R244**
1/16 in	60 ksi	60 ksi	**41R249**	**41R250**
3/32 in	45 ksi	45 ksi	**41R245**	—
3/32 in	60 ksi	60 ksi	**41R251**	**41R252**
1/8 in	45 ksi	45 ksi	**41R247**	**41R248**
1/8 in	60 ksi	60 ksi	**41R253**	—
R45				
3/32 in	45 ksi	45 ksi	—	**41R246**
5/32 in	45 ksi	45 ksi	**31GH44**	—
3/16 in	45 ksi	45 ksi	**31GH45**	**31GH46**
R60				
1/8 in	60 ksi	60 ksi	—	**23XM55**
5/32 in	60 ksi	60 ksi	**30XP65**	—
3/16 in	60 ksi	60 ksi	**30XP66**	**30XP67**

Brazing Alloys

- Rod Shape
- Nickel-Silver: 70 ksi Tensile Strength
- Low-Fuming Bronze: 71 ksi Tensile Strength, 64 ksi Yield Strength

Overall Dia.	Overall Length	Finish/ Coating	Solidus	Liquidus	Brazing Temp. Range	Series	Brand	Item No.	Pkg. Qty.
Phos Copper									
0 % Silver Content, BCuP-2									
0.05 in x 1/8 in	20 in	Bare	1,310 °F	1,460 °F	1,345 °F to 1,500 °F	Harris 0	Harris	**3THE4**	7
1/8 in	18 in	Bare	1,310 °F	1,460 °F	1,350 °F to 1,550 °F	BCuP-2	Hobart	**6ETP0**	1
1/8 in	18 in	Bare	1,350 °F	1,550 °F	1,350 °F to 1,550 °F	—	Bernzomatic	**3AC23**	15
1/8 in	20 in	Bare	1,310 °F	1,460 °F	1,350 °F to 1,550 °F	BCuP-2	Westward	**30AC72**	28
15 % Silver Content, BCuP-5									
0.05 in x 1/8 in	20 in	Bare	1,190 °F	1,425 °F	1,300 °F to 1,500 °F	Stay-Silv 15	Harris	**3THF8**	7
1/8 in	18 in	Bare	1,190 °F	1,475 °F	1,300 °F to 1,500 °F	BCuP-5	Hobart	**6ETP2**	1
1/8 in	20 in	Bare	1,190 °F	1,475 °F	1,300 °F to 1,500 °F	BCuP-5	Westward	**30AC74**	28
5 % Silver Content, BCuP-3									
0.05 in x 1/8 in	20 in	Bare	1,190 °F	1,500 °F	1,350 °F to 1,550 °F	Stay-Silv 5	Harris	**3THF9**	7
1/8 in	18 in	Bare	1,190 °F	1,495 °F	1,325 °F to 1,500 °F	BCuP-3	Hobart	**6ETP1**	1
1/8 in	20 in	Bare	1,190 °F	1,495 °F	1,325 °F to 1,500 °F	BCuP-3	Westward	**30AC73**	28
6 % Silver Content, Not Classified									
0.05 in x 1/8 in	20 in	Bare	1,190 °F	1,465 °F	1,300 °F to 1,500 °F	Dynaflow	Harris	**3THE2**	7
Low-Fuming Bronze									
0 % Silver Content, RBCuZn-C									
3/32 in	12 in	Bare	1,595 °F	1,630 °F	1,595 °F to 1,630 °F	—	Bernzomatic	**3AC22**	25
1/8 in	36 in	Bare	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Hobart	**6ETP3**	1
1/8 in	36 in	Bare	1,630 °F	1,690 °F	1,670 °F to 1,750 °F	RBCuZn-C	Hobart	**6ETP6**	1
1/8 in	36 in	Flux-Coated	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Westward	**41R236**	1
1/8 in	36 in	Flux-Coated	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Westward	**30AC75**	20
1/8 in	36 in	Flux-Coated	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Westward	**30AC78**	33
5/32 in	36 in	Bare	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Westward	**30XP48**	1
3/16 in	36 in	Flux-Coated	1,590 °F	1,630 °F	1,670 °F to 1,750 °F	RBCuZn-C	Westward	**30XP52**	1
Nickel Silver									
0 % Silver Content, RBCuZn-D									
1/16 in	36 in	Bare	1,690 °F	1,715 °F	1,720 °F to 1,800 °F	RBCuZn-D	Westward	**30XP62**	1
3/32 in	36 in	Bare	1,690 °F	1,715 °F	1,720 °F to 1,800 °F	RBCuZn-D	Hobart	**6ETP4**	1
3/32 in	36 in	Bare	1,690 °F	1,715 °F	1,720 °F to 1,800 °F	RBCuZn-D	Westward	**30XP63**	1
3/32 in	36 in	Flux-Coated	1,690 °F	1,715 °F	1,720 °F to 1,800 °F	RBCuZn-D	Westward	**30AC77**	40
1/8 in	36 in	Bare	1,690 °F	1,715 °F	1,665 °F to 1,680 °F	RBCuZn-D	Hobart	**6ETP5**	1
1/8 in	36 in	Flux-Coated	1,690 °F	1,715 °F	1,720 °F to 1,800 °F	RBCuZn-D	Westward	**30AC76**	22
High Silver									
45 % Silver Content, BAg-5									
1/16 in	18 in	Bare	1,225 °F	1,370 °F	1,370 °F to 1,550 °F	Safety-Silv 45	Harris	**3THE6**	5
1/16 in	18 in	Flux-Coated	1,225 °F	1,370 °F	1,370 °F to 1,550 °F	Safety-Silv 45FC	Harris	**3THE5**	3
3/32 in	18 in	Bare	1,225 °F	1,370 °F	1,225 °F to 1,370 °F	Safety-Silv 45	Harris	**3THE7**	3
56 % Silver Content, BAg-7									
1/16 in	18 in	Bare	1,205 °F	1,205 °F	1,205 °F to 1,400 °F	Safety-Silv 56	Harris	**3THF1**	5
1/16 in	18 in	Flux-Coated	1,205 °F	1,205 °F	1,205 °F to 1,400 °F	Safety-Silv 56FC	Harris	**3THE9**	3

45% Silver, BAg-5
3THE8

Brazing Alloy & Flux Kits

Alloy Included	Solidus	Liquidus	Fluidity Rating	Flux Included	Item No.
45 % Alloy Silver Content, BAg-5					
1/16 in x 1 oz Coil	1,225 °F	1,370 °F	6.5	1.75 oz Jar Paste	**3THE8**
Brazing Wire Kits (1-oz. Wire, 1.75-oz. Flux)					
1/16 in x 1 oz Coil	1,145 °F	1,205 °F	8	1.75 oz Jar Paste	**3THF2**

High Silver, Phos Copper Brazing
400H05

High Silver Brazing
3JXF1

Brazing Flux

Container Size	Container Type	Flux Form	Active Temp.	Color	AWS Classification	Series	Brand	Item No.
High Silver, Phos Copper Brazing								
6 oz	Jar	Paste	1,000 °F to 1,600 °F	White	FB3-A	—	Worthington	**1UYK2**
1 lb	Can	Powder	1,400 °F to 2,000 °F	Blue	FB3-F	All-State Brazaloy 1 Flux	All-State	**400H05**
1 lb	Can	Powder	1,400 °F to 2,000 °F	White	FB3-F	All-State Brazo	All-State	**400H03**
1 lb	Can	Powder	1,400 °F to 2,000 °F	Red	FB3-F	All-State Brazaloy 5 Flux	All-State	**400H06**
1 lb	Jar	Paste	1,050 °F to 1,800 °F	Black	FB3-C	Stay-Silv	Harris	**49JR41**
5 lb	Jar	Paste	1,050 °F to 1,800 °F	Black	FB3-C	Stay-Silv	Harris	**54RY05**
High Silver Brazing								
6.5 oz	Brush Cap Bottle	Paste	1,050 °F to 1,600 °F	White	FB3-A	Stay-Silv	Harris	**3JXF1**
1 lb	Jar	Paste	1,050 °F to 1,600 °F	White	FB3-A	Stay-Silv	Harris	**49JR42**
5 lb	Jar	Paste	1,050 °F to 1,600 °F	White	FB3-A	Stay-Silv	Harris	**54RY03**

1UYG8

Plumbing Solder

Item	Application	Contents	Wire Dia. (in.)	Melting Range (Deg.)	Container Size	Brand	Item No.
Solder							
Solder Wire	Large Diameter Pipes	Copper, Silver, Tin	0.118 in	440 to 482	1 lb	Harris	**1UYG8**
	Plumbing and Potable Water	Copper, Selenium, Tin	0.118 in	410 to 418	1 lb	Harris	**1UYK9**
	Plumbing	5% Antimony, 95% Tin	0.117 in	450 to 464	1 lb	Oatey	**41GP10**
	Plumbing and Potable Water	5% Antimony, 95% Tin	0.118 in	455 to 630	1 lb	Harris	**1UYG9**
	Electrical, Small Connection	5% Antimony, 95% Tin	0.125 in	452 to 464	8 oz	Harris	**3THF3**
	Used Where Lead Bearing Solders are Prohibited	Nickel	0.125 in	460 to 630	8 oz	Harris	**3THF4**
	Speedy is a Lead-Free, Low Temperature Alloy Formulated for Joining Copper Pipe in Potable Water Systems	Nickel	0.125 in	450 to 555	1 lb	Harris	**3THF7**
	Copper Joints	Nickel	0.125 in	438 to 729	1 lb	Harris	**3THE3**
	Sheet Metal Work, Welding	50% Lead, 50% Tin	0.125 in	445 to 500	1 lb	Harris	**1UYH2**

American Beauty · Chemtronics · Harris · All-State

Electrical/Electronic Solder

Solid Wire Solder 3THF5

Contents	Wire Dia. (in.)	Application	Container Size	Std.	Brand	Item No.
Solder Bar						
0.375% Copper, 0.375% Silver, 2% Antimony, 97.25% Tin	0.250 x 0.250	Roofing, Sheet Metal	6.4 oz	RoHS Compliant	American Beauty	**36JT59**
50% Lead, 50% Tin	0.250 x 0.250		8 oz	RoHS Compliant	American Beauty	**36JT60**
Solder Wire						
0.5% Copper, 3.0% Silver, 96.5% Tin	0.032 in	Lead-Free Soldering	6 oz	RoHS Compliant	American Beauty	**19YP69**
0.5% Copper, 3.0% Silver, 96.5% Tin, Rosin Core	0.04 in	Lead Free Rework and Repair, Portable SAC 305 Alloy	125 in	IPC J STD 004, RoHS Compliant	Chemtronics	**1UYD8**
3% Copper, 97% Tin	0.093 in	Lead-Free Soldering	4 oz	RoHS Compliant	American Beauty	**19YP70**
3% Copper, 97% Tin, Acid Core	0.125 in	Appliances, Motors, Speaker Wire, Wiring	1 lb	EU Reach, RoHS Compliant	Harris	**1UYK6**
3% Copper, 97% Tin, Rosin Core	0.031 in		1 lb	ASTM B-32	Harris	**1UYH9**
	0.062 in		1 lb	ASTM B-32	Harris	**1UYK5**
	0.1 in		1 lb	ASTM B-32	Harris	**1UYK7**
	0.125 in	Motors, Repairs, Speaker Wires	1 lb	ASTM B-32	Harris	**1UYK8**
4% Silver, 96% Tin	0.118 in	Dissimilar Metal Joints, Vibration	1 lb	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**1UYG6**
	0.125 in	Solders Exhibit Considerably Higher Than Necessary Elongation for Sound, Dissimilar Metal Joints and Vibration Applications	8 oz	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**3THF5**
40% Lead, 60% Tin, Rosin Core	0.031 in	Electrical, Small Connection	1 lb	ASTM B-32, J-STD-006	Harris	**1UYH4**
	0.062 in		1 lb	ASTM B-32, J-STD-006	Harris	**1UYH3**
	0.125 in		1 lb	ASTM B-32, J-STD-006	Harris	**1UYH6**
40% Tin, 60% Lead, Acid Core	0.062 in	Auto Radiators, Metal Gutters, Sheet Metal, Tin Repairs	1 lb	ASTM B-32	Harris	**1UYH8**
40% Tin, 60% Lead, Rosin Core	0.062 in	Appliances, Motors, Speaker Wire, Wiring	1 lb	ASTM B-32	Harris	**1UYH7**
6% Silver, 94% Tin	0.118 in	Dissimilar Metal Joints, Vibration	1 lb	NSF 51, RoHS Compliant	Harris	**1UYH1**
Copper, Silver, Tin	0.125 in	Soldering	1 lb	CEPA, CERCLA/SARA Title III, CSA, EPA, EPCRA/SARA Title III, EU Regulations, NFPA 51B	All-State	**400H02**
Solder Wire & Flux Kit						
4% Silver, 96% Tin	0.125 in	Low Temperature Solder	—	ASTM B-32, J-STD-006, NSF 51, RoHS Compliant	Harris	**3THF6** *

***** *Includes ½ oz. solder and ½ oz. flux.***

SEELYE, INC.

Plastic Welding Tips

- Connection type: 1/4"-18 NPS
- For welder series 2001 FC, 2001 FCP, and model 63

Hand 4UZT2

Speed 4UZT3

Tacking 4UZT1

Nom. Size	For Maximum Rod Diameter	Item No.
Hand Welding Tip		
#5	3/16 in	**4UZT2**
Speed Welding Tip		
#9	5/32 in	**4UZT3**
#9A	5/32 in	**4UZT6**
#10	3/16 in	**4UZT4**
#10A	3/16 in	**4UZT7**
#15	1/16 in x 5/8 in	**4UZT5**
Tacking Tip		
#4	—	**4UZT1**

SEELYE, INC.

Plastic Welders

Weld most thermoplastics such as polypropylene, PVC, and ultra-high molecular weight polyethylene (UHMW).

Plastic Welding Kit 4UZR7

Plastic Welding Kit With Air Compressor 4UZR9

Series	Includes	Item No.
Plastic Welding Kits		
FC	500 Watt 120 Volt Element, Air Filter, Gauge, Regulator, Variable Heat Control, Pressure Switch, Automatic Speed Tip for ⅛ in and 5/32 in Diameter Welding Rod, Tacking Tip, Tray, Carrying Case and How to Weld Guide Book	**4UZR8**
63	500 Watt 120 Volt Element, Air Filter, Gauge, Regulator, Round Tip, Tray and Welder Guide Book	**4UZR7**
63	500 Watt 120 Volt Element, Air Filter, Gauge, Regulator, Round Tip, Tacking Tip, Tray, Carrying Case and Welder Guide Book	**4UZR6**
Plastic Welding Kit with Air Compressor		
FCP	500 Watt 120 Volt Element, Compressor, Variable Heat Control, Automatic Speed Tip for ⅛ in and 5/32 in Diameter Welding Rod, Tray, Carrying Case and How to Weld Guide Book	**4UZR9**

SEELYE, INC. · USA SEALING

Plastic Welding Rods

Rods supply filler material for joining or repairing parts in plastic welding applications.

Overall Dia.	Color	Weight	For Maximum Material Thickness	Operating Temp. Range to	Brand	Item No.
ABS						
⅛ in	Black	1 lb	5/32 in	650 °F to 725 °F	Seelye	**4UZW5**
⅛ in	Off-White	1 lb	5/32 in	650 °F to 725 °F	Seelye	**4UZW8**
⅛ in	White	1 lb	5/32 in	650 °F to 725 °F	Seelye	**4UZX2**
5/32 in	Black	1 lb	¼ in	650 °F to 725 °F	Seelye	**4UZW6**
5/32 in	Off-White	1 lb	¼ in	650 °F to 725 °F	Seelye	**4UZW9**
5/32 in	White	1 lb	¼ in	650 °F to 725 °F	Seelye	**4UZX3**
3/16 in	Black	1 lb	½ in	650 °F to 725 °F	Seelye	**4UZW7**
3/16 in	White	1 lb	½ in	650 °F to 725 °F	Seelye	**4UZX4**
Acetal Copolymer						
⅛ in	Black	1 lb	5/32 in	550 °F to 625 °F	Seelye	**4UZY4**
5/32 in	Black	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZY5**
3/16 in	Black	1 lb	½ in	550 °F to 625 °F	Seelye	**4UZY6**
Acrylic						
3/16 in	Clear	5 lb	3/16 in	605 °F to 700 °F	Usa Sealing	**784R27**
3/16 in	Clear	10 lb	3/16 in	605 °F to 700 °F	Usa Sealing	**784R28**
3/16 in	Clear	15 lb	3/16 in	605 °F to 700 °F	Usa Sealing	**784R29**
CPVC						
⅛ in	Gray	1 lb	5/32 in	900 °F to 1,000 °F	Seelye	**4UZX5**
5/32 in	Gray	1 lb	¼ in	900 °F to 1,000 °F	Seelye	**4UZX6**
3/16 in	Gray	1 lb	½ in	900 °F to 1,000 °F	Seelye	**4UZX7**
3/16 in	Gray	15 lb	3/16 in	640 °F to 680 °F	Usa Sealing	**784PW8**
HDPE						
⅛ in	Black	1 lb	5/32 in	500 °F to 600 °F	Seelye	**4UZV8**
⅛ in	Off-White	1 lb	5/32 in	500 °F to 600 °F	Seelye	**4UZV5**
5/32 in	Black	1 lb	¼ in	500 °F to 600 °F	Seelye	**4UZV9**
5/32 in	Off-White	1 lb	¼ in	500 °F to 600 °F	Seelye	**4UZV6**
3/16 in	Black	1 lb	½ in	500 °F to 600 °F	Seelye	**4UZW1**
3/16 in	Off-White	1 lb	½ in	500 °F to 600 °F	Seelye	**4UZV7**
3/16 in	White	5 lb	3/16 in	570 °F to 610 °F	Usa Sealing	**784R63**
3/16 in	White	10 lb	3/16 in	570 °F to 610 °F	Usa Sealing	**784R64**
3/16 in	White	15 lb	3/16 in	570 °F to 610 °F	Usa Sealing	**784R65**
HMWPE						
5/32 in	Black	1 lb	¼ in	900 °F to 1,000 °F	Seelye	**4UZW4**
5/32 in	Off-White	1 lb	¼ in	900 °F to 1,000 °F	Seelye	**4UZW3**
LDPE						
⅛ in	Black	1 lb	5/32 in	500 °F to 550 °F	Seelye	**4VDA9**
⅛ in	Off-White	1 lb	5/32 in	500 °F to 550 °F	Seelye	**4VDA6**
5/32 in	Black	1 lb	¼ in	500 °F to 550 °F	Seelye	**4VDC1**
3/16 in	Off-White	1 lb	½ in	500 °F to 550 °F	Seelye	**4VDA8**
Polycarbonate						
3/16 in	Off-White	5 lb	3/16 in	660 °F to 675 °F	Usa Sealing	**784R15**
3/16 in	Off-White	10 lb	3/16 in	660 °F to 675 °F	Usa Sealing	**784R16**
3/16 in	Off-White	15 lb	3/16 in	660 °F to 675 °F	Usa Sealing	**784R17**
Polypropylene						
⅛ in	Black	1 lb	5/32 in	550 °F to 625 °F	Seelye	**4UZV2**
⅛ in	Off-White	1 lb	5/32 in	550 °F to 625 °F	Seelye	**4UZU5**
5/32 in	Black	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZV3**
5/32 in	Off-White	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZU6**
5/32 in	White	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZU9**
3/16 in	Black	1 lb	½ in	550 °F to 625 °F	Seelye	**4UZV4**
3/16 in	Off-White	1 lb	½ in	550 °F to 625 °F	Seelye	**4UZU7**
Polyurethane						
5/32 in	Off-White	1 lb	5/32 in	500 °F to 650 °F	Seelye	**4UZY2**
3/16 in	Clear	10 lb	3/16 in	570 °F to 650 °F	Usa Sealing	**784R52**
3/16 in	Clear	15 lb	3/16 in	570 °F to 650 °F	Usa Sealing	**784R53**
PVC						
⅛ in	Gray	1 lb	5/32 in	550 °F to 625 °F	Seelye	**4UZU2**
⅛ in	White	1 lb	5/32 in	550 °F to 625 °F	Seelye	**4UZT8**
5/32 in	Gray	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZU3**
5/32 in	White	1 lb	¼ in	550 °F to 625 °F	Seelye	**4UZT9**
5/32 in	White	15 lb	5/32 in	625 °F to 660 °F	Usa Sealing	**784PV2**
3/16 in	Gray	1 lb	½ in	550 °F to 625 °F	Seelye	**4UZU4**
3/16 in	White	1 lb	3/16 in	625 °F to 660 °F	Usa Sealing	**784PV3**
3/16 in	White	5 lb	3/16 in	625 °F to 660 °F	Usa Sealing	**784PV4**
3/16 in	White	10 lb	3/16 in	625 °F to 660 °F	Usa Sealing	**784PV5**
PVDF						
⅛ in	Off-White	1 lb	5/32 in	900 °F to 1,000 °F	Seelye	**4UZX8**
5/32 in	Off-White	1 lb	¼ in	900 °F to 1,000 °F	Seelye	**4UZX9**
3/16 in	Off-White	1 lb	½ in	900 °F to 1,000 °F	Seelye	**4UZY1**
UHMW Polyethylene						
5/32 in	White	15 lb	5/32 in	900 °F to 1,000 °F	Usa Sealing	**784PD1**
3/16 in	White	5 lb	3/16 in	900 °F to 1,000 °F	Usa Sealing	**784PD2**
3/16 in	White	15 lb	3/16 in	900 °F to 1,000 °F	Usa Sealing	**784PD4**

792YE5

Heck Industries Inc. metabo

Corded Weld Shavers

Weld shavers cut with multiple indexable inserts that remove material as the milling head rotates. The milling head adjusts up or down to set the depth of cut. Base plates on each side of the head stabilize the cutter and form a slot for guiding the cut along the weld.

Maximum Weld Removal Height	Maximum Weld Removal Width	Weld Height Adjustment	Number of Inserts	Brand	Item No.
3/16 in	1/2 in	0.063 in	8	Heck Industries	**30NX73**
3/8 in	1 in	0.004 in	3	Metabo	**792YE5**

Welding Pliers
2CZD6

Butt/Fillet Weld Gauge
2UPX3

Chipping Hammer w/Brush
2WDR2

Miller · Westward · Palmgren · Uniweld

Welding Accessories

Two Hose Manifolds—Connect at the regulator outlet, enabling use of 2 torches at the same time.

Welding Pliers—Use these spring-loaded pliers to cut and draw welding wire, clean parts, grip nozzles, and install or remove insulator bushings. PVC handgrips.

Butt/Fillet Weld Gauge—Use to check and measure the size of butt welds, root openings, and convex and concave fillets. A finger knob allows easy locking. Laser etched stainless steel with threaded pin.

Cylinder Adapter Set—F31 tank to regulator adapter converts B tank CGA 520 to MC CGA 200 regulator. F41 converts MC tank CGA 200 to B CGA 520 regulator.

Hose Repair Kit—Includes heavy-duty crimper, both A and B sizes of 24 nuts, 24 nipples, 4 couplers, 32 ferrules, and 6 splicers. For hoses 3/16" to 1/4" I.D.

Chipping Hammers and Brush—Forged head has chisel on 1 end and point on the other to remove weld splatter. Steel shaft and wire handle.

Item	Description	Brand	Item No.
Two Hose Manifolds	Y Connector for Oxygen B Connections	Miller Electric	**2CZN6**
	Y Connector for Fuel B Connections	Miller Electric	**2CZN7**
Welding Pliers	8" Carbon Steel	Westward	**2CZD6**
Butt/Fillet Weld Gauge	From 0 to 3/4"	Palmgren	**2UPX3**
Cylinder Adapter Set	Cylinder Adapter Set	Uniweld	**5KH11**
Hose Repair Kit	Welding Hose Repair & Installation Kit	Uniweld	**3NY89**
Chipping Hammers	Horizontal, 6 in Head Length, 5.6 oz Head	Westward	**2DBV1**
	Vertical, 3 7/10 in Head Length, 5.11 oz Head	—	**19N773**
	Vertical, 6 in Head Length, 5.6 oz Head	Westward	**2DBU9**
	Vertical, 6 9/50 in Head Length, 6.88 oz Head	—	**19N775**
	Vertical, 6 11/50 in Head Length, 7.23 oz Head	—	**19N774**
	Vertical, 6 27/50 in Head Length, 6.7 oz Head	—	**19N781**
	Vertical, 7 12/25 in Head Length, 16.23 oz Head	—	**19N777**
	Vertical, 7 16/25 in Head Length, 15.17 oz Head	—	**19N779**
	Vertical, 7 16/25 in Head Length, 16.37 oz Head	—	**19N780**
	Vertical, 7 16/25 in Head Length, 17 oz Head	—	**19N778**
Chipping Hammer w/Brush	Vertical, 4 in Head Length, 4.4 oz Head	Westward	**2WDR2**
Scratch Brush	Straight, 3 Rows	—	**19N784**

Magnetic Welding Squares
2MJJ7

Magnetic Welding Link
3G919

MAG-MATE · SUMNER (A Southwire Company) · GENERAL · magswitch

Welding Grounds and Squares

Magnetic Welding Grounds—Powerful, permanent magnetic clamps attach securely to work surfaces. Spring-loaded models have breakaway release handle. On/Off models can be used on flat or pipe surfaces.

Magnetic Holder—Offers fast and accurate positioning, holding, and fit-up of round, and/or square tubing and steel plates.

Magnetic Welding Link—Holds steel plates in position for welding, brazing, and soldering.

Magnetic Welding Squares—Have 2 holes for fixture mounting, and allow thread-rod positioning for larger sheets. Corrosion-resistant zinc-plated poles. Can be used on flat or pipe surfaces.

Welding Magnet Protractor—Magnetic clamp holds ferrous metals at fixed angles for clamping or welding.

Type	Max. Pull (lb.)	Dia. (in.)	L (in.)	Amps	Mfr. Model	Item No.
Magnetic Welding Grounds, Mag-Mate						
Spring Loaded	35 lb	3 1/2 in	—	250 A	WG250	**2MJK6**
	35 lb	3 1/2 in	—	800 A	WG800	**2MJK8**
On/Off Welding Ground	150 lb	—	2 7/8 in	200 A	WG200R	**45EX64**
	450 lb	—	5 in	800 A	WG800R	**45EX66**

Description	Max. Pull	Color	Overall Width	Overall Length	Brand	Item No.
Magnetic Holder						
Magnetic Fixture 45, 90 & 135°, Holds 90 lb.					Sumner	**19F653**
Magnetic Welding Angle						
Ergonomic Handle	275 lb	Black	2.125 in	7.25 in	Mag-Mate	**401M74**
Holds On Three Sides	150 lb	Red	2.125 in	9.625 in	Mag-Mate	**45EX69**
Inside or Outside 90° Holding	450 lb	Red	3.875 in	12.25 in	Mag-Mate	**45EX71**
Magnetic Welding Angle W/Ground						
On/Off Handle	150 lb	Red	1.9375 in	4 in	Mag-Mate	**45EX68**
Magnetic Welding Link						
(2) Alnico Magnetic Blocks Linked w/Steel Bar & Wing Nuts, 25 lb. Per Block					General Tools	**3G919**
Magnetic Welding Square						
45°and 90° Angles	160 lb	Silver	0.75 in	8 in	Mag-Mate	**38Y429**
Adjustable Angle Square	120 lb	Silver	1.375 in	7.625 in	Mag-Mate	**2MJJ8**
Compact	60 lb	Silver	3.75 in	3.75 in	Mag-Mate	**48FY43**
Compact Multiple Angle Square	60 lb	Silver	0.75 in	3.75 in	Mag-Mate	**2MJJ7**
Holds Work Pieces at Different Angles	55 lb	Silver	0.75 in	4.375 in	Mag-Mate	**2MJJ6**
	110 lb	Silver	1.5625 in	4.375 in	Mag-Mate	**38Y424**
Inside 90° Outside 45°and 90°	40 lb	Silver	0.625 in	5.5 in	Mag-Mate	**38Y425**
Large w/Weld Spatter Cover/Breakaway Bar	325 lb	Silver	2.25 in	8 in	Mag-Mate	**2MJK4**
Mid-Size Heavy Duty, Weld Spatter Cover/Breakaway Bar	150 lb	Silver	1.5 in	3.75 in	Mag-Mate	**2MJK2**
Mid-Size Multiple Angle Square	75 lb	Silver	0.75 in	3.75 in	Mag-Mate	**2MJJ9**
Mid-Size w/Weld Spatter Cover	75 lb	Silver	0.75 in	3.75 in	Mag-Mate	**2MJK1**
Multi-Angle w/Large Finger Hole	60 lb	Silver	0.75 in	3.75 in	Mag-Mate	**31HG52**
Switchable Technology, Tapped Holes for Fixture	1,052 lb	Yellow	2.8 in	4.3 in	Magswitch	**406T02**
Tapped Holes for Fixture	150 lb	Red	1.5 in	1.5 in	Mag-Mate	**45EX61**
	450 lb	Red	2.5 in	3 in	Mag-Mate	**45EX62**
	1,000 lb	Red	4 in	4.25 in	Mag-Mate	**45EX63**
Welding Angle						
Compact, Lightweight	215 lb	Yellow	3.9 in	9.1 in	Magswitch	**406T07**
Welding Magnet Protractor						
Provides Fixed 30°, 45°, 60°, 75° & 90°, Up to 50 lb. Resistance					General Tools	**3G921**

TWECO (An ESAB Brand)

Ground Clamp
1UYE9

Arc Welding Accessories

Ground Clamps—High-tensile, tight spring grips. 98% copper alloy minimizes resistance in electrical flow. Tweco clamps 44ZE41 and 44ZE34 are steel with a brass jaw. 44ZE44, 44ZE33, and 44ZE39 feature copper construction. All other clamps have a steel clamp with copper strap and jaw.

Cable Connectors—Fully insulated with rubber boots. For use with arc welders.

Ball Point Lugs and Female Terminals—Copper lugs are rated at 80V.

Description	Size	Brand	Item No.
Ground Clamps			
Brass, #1 Cable Size	300 A Amps	—	**19N767**
Brass, 2/0 Cable	400 A Amps	—	**19N768**
Brass, 4/0 Cable	600 A Amps	—	**19N769**
Brass And Steel	300 A Amps	—	**19N770**
Brass and Steel, Jaw Opens 1½ in	600 A Amps	—	**19N771**
Brass And Steel	800 A Amps	—	**19N772**
Steel With Braided Copper Shunt	200 A Amps	—	**19N765**
	300 A Amps	Tweco	**44ZE41**
	500 A Amps	Tweco	**44ZE34**
	500 A Amps	—	**19N766**
Copper/Brass	200 A Amps	—	**1UYE9**
	300 A Amps	—	**1UYF1**
Copper	500 A Amps	—	**1UYF2**
Copper/Brass	200 A Amps	Tweco	**44ZE44**
	300 A Amps	—	**1UYF3**
	300 A Amps	Tweco	**44ZE33**
	500 A Amps	Tweco	**44ZE39**
Cable Connectors			
Male/Female 1MPC	For 1, 2, 4	—	**1UYF4**
Male/Female 2MPC	For 1/0, 2/0, 3/0	—	**1UYF5**
Male 2MPC1	For 1/0, 2/0, 3/0	—	**1UYF6**
Female 2MPC1	For 1/0, 2/0, 3/0	—	**1UYF7**
Male/Female 4MPC	For 3/0, 4/0	—	**1UYF8**
Double Ball Point, Male/Female	For 3/0, 4/0	Tweco	**44ZE36**
Double Ball Point, Female	For 3/0, 4/0	Tweco	**44ZE37**
Male/Female, Single Ball Point	For 1/0, 2/0, 3/0	Tweco	**44ZE38**
Lug	For 6-2	Tweco	**49NW86**
	For 1 -2/0	Tweco	**49NW87**
Cable Ball Point Lugs			
Straight	Up to 1/0 Cable	Tweco	**6NE38**
	Up to 4/0 Cable	Tweco	**6NE40**
	Up to 4/0 Cable, w/Cover	Tweco	**6NE44**
45° Angle	Up to 1/0 Cable	Tweco	**6NE37**
	Up to 1/0 Cable, w/Cover	Tweco	**6NE41**
	Up to 4/0 Cable	Tweco	**6NE39**
	Up to 4/0 Cable, w/Cover	Tweco	**6NE43**
Cable Female Terminals			
Straight	1MPC, w/Cover	Tweco	**6NE46**
	2MPC or 4MPC, w/Cover	Tweco	**6NE48**
45° Angle	1MPC, w/Cover	Tweco	**6NE45**
	2MPC or 4MPC, w/Cover	Tweco	**6NE47**

Jack Stands and Roller Stands

Offered with a variety of heads to keep workpieces in position. Jacks feature 1½" Acme fine adjustment thread, large adjustment handle, quick-action and lock washer. Set screw can lock the jack head to the stand with no loose pieces. Jacks are independently load tested.

Lo-Jack—Fall Guard protection allows safety zone around lock washer. 1" square tube base construction with rounded foot pads. Strut tension plate provides superior lateral support.

Fold-A-Jack—Jack folds up for simple storage and has a built-in carrying handle for easy transport. Fall Guard feature provides a safe zone around the lock washer.

FAB SAF JACK—Features a quick-action lock washer for fast setup.

Hi Boy—Easy-to-transport tall jack is specifically designed for use in tight pipe installations, such as in mechanical rooms or tunnels.

Max Jax—Features 12" V head for maximum safety.

Adjust A Roll—Features a simple design that won't interfere with welding operations, and fast roller adjustment from either side for easy pipe positioning. Bronze bearing helps eliminate arcing.

Pro Roll—Quick-change roller housings help speed setup. A brake locks loads for layout or fit-up. Adjustable-height, with leveling on either side of stand.

Beam-Jax—Has automatic clamping device that centers load. Detachable handle attaches to either side and rotates out of operator's way. Reversible beam forks. Handles beams up to 24".

Fold-A-Jack® w/Roller Head 19F636

Max Jax w/Casters and Rollers 19F640

Pro Roll™ w/Rubber Wheels 19F632

Beam-Jax W/Casters 19F641

Item	Pipe Cap.	Overall Height	Load Capacity	Type	Features	Item No.
Jack Stands						
Lo-Jack	⅛ to 24 in	21 in to 36 in	2,500 lb	V Head	2.5 cm Square Tube Base Construction, Built for Heavy Use & Abuse, Strut Tension Plate for Superior Lateral Support	19ZF73
Fold-A-Jack	24 in	21 in to 36 in	2,500 lb	V Head		19ZF74
Hi Fold-a-Jack with Fall Guard	24 in	28 in to 49 in	2,500 lb	V Head		19F635
Hi Fold-a-Jack	24 in	28 in to 49 in	2,500 lb	Roller Head		19F636
Fab Saf™	24 in	32 in to 52 in	3,500 lb	Ribbed V Head	Large Ribbed Vee Head to Accommodate a 36 in (900 mm) Pipe, Quick-Action Lock Washer	19F637
	24 in	32 in to 52 in	2,500 lb	Roller Head		19F638
Hi Boy™	24 in	39 to 72 in	1,000 lb	V Head	V-Head	19F639
Max Jax	36 in	36½ in	2,500 lb	Casters And Rollers	Casters Lock, Sturdy 5 Leg Construction	19F640
Roller Stands						
Adjust A Roll™	½ to 36 in	31 in	2,500 lb	Rubber Wheels	Brake to Lock Loads for Layout or Fit-Up, Bronze Bearing to Eliminate Arcing, Fast Adjustment for Easy Pipe Positioning, Handle Large Enough to Work with Gloved Hand, Roller Adjustment From Either Side, Wheels Trued for True Pipe Rotation	19F627
	½ to 36 in	31 in	2,000 lb	Stainless Steel Wheels		19F628
Pro Roll	½ to 36 in	29 in to 43 in	1,200 lb	Rubber Wheels		19F632
	½ to 36 in	29 in to 43 in	1,200 lb	Ball Transfer Wheels		19F631
	½ to 36 in	29 in to 43 in	2,500 lb	Steel Wheels		19F630
	½ to 36 in	29 in to 43 in	2,000 lb	Stainless Steel Wheels		19F633
	½ to 36 in	29 in to 43 in	2,000 lb	Bar Stock Head		19F634
Beam Jax™	36 in	37.3 in	2,500 lb	With Casters	Beam Forks Reverse, Fits Pipe Up to 36 in, Forks Adjustable from Either Side with Detachable Handle, Sturdy 5 Leg Construction, Casters Lock	19F641
Accessory						
Stainless Steel Vee Head Sleeve Fits Fold-A-Jacks, Pro Jacks and Heavy Duty Jacks						19F642

Internal Fit-Up Clamp 19F668

Clamp Champ 19F644

Ultra Clamp Pipe Clamp 19F648

Clamps

Internal Fit-Up clamps are for use with standard and slip-on flanges. Clamp Champs are capable of a wide range of fit-ups. Ultra clamps have a push-button design that allows rapid setting and fine tuning. Stainless steel contacts.

Description	Item No.
Internal Fit-Up Clamps	
2 to 4", Stainless Steel	19F666
4 to 8", Stainless Steel	19F667
8 to 12", Stainless Steel	19F668
Clamp Champs	
1 to 10", Steel	19F645
1 to 10", Stainless Steel	19F644
1 to 16", Steel	19F643
Ultra Clamp Pipe Clamps	
1 to 2½", Steel	19F646
2 to 6", Steel, Qwik Clamp	19ZF69
2 to 6", Steel	19F647
5 to 12", Steel	19F648

Pipe Cutting Guides

For cutting pipe at 22°, 45°, 90° and saddle cuts.

Sizes	Item No.
Pipe Cutting Guides	
1⅞ in Dia.	18C546
2 ⅜ in Dia.	18C547
2 ⅞ in Dia.	18C548
3 ½ in Dia.	18C549
4 ½ in Dia.	18C550
Pipe Cutting Guide Sets	
3½ in & 4½ in	18C552
1⅞ in, 2⅜ in, 2⅞ in	18C551

18C548

Flange Alignment Tools

Mul-T-Square—Handles up to 8" flanges and up to 14" fittings. Consists of two 45° arm blades. Marked blades indicate Imperial and Metric units.

Flange Leveler—2-hole and level in one operation. Use Qwik Pin nuts for fast action. Acme threads.

Flange Spreaders—Used for 150 to 1,500 lb flanges. Drive can be rotated by 1⅜" wrench or ½" bar.

Qwik Pins—Quick installing pins work to level flange (2-hole) for tack and weld-out. Acme threads.

Rotary Ground Clamp—Positive anti-arc bearings take loads up to 400 Amps.

Digital Angle Finder—Can be used to establish an accurate centerline on pipes and tanks. Built-in spring-loaded hardened striking pin marks location with the push of a button. Detachable digital gage has a magnetic base.

Mul-T-Square® 19F673

Flange Leveler 19F650

Digital Angle Finder 45EK88

Description	Application	Item No.
Mul-T-Square	23.5 in x 9 in, 8" Flanges And 14" Fittings, 45 & 90° Angles	19F672
	29 in x 9 in, 8" Flanges And 14" Fittings, 45 & 90° Angles	19F673
Flange Leveler	Automatically Center On ⅝" - 1⅝" Flange Holes	19F650
Flange Spreader	3 in, 150-400 Lbs	19F664
	4 in, 150-1500 Lbs	19F663
	6 ⅜ in, 150-1500 Lbs	19F662
Qwik Pins	Automatically Center On ⅝" - 1⅝" Flange Holes	19F649
Rotary Ground Clamp	Rotary Head Turns With Pipe	19F665
Digital Angle Finder	4° to 90°, Auto Power-Off	45EK88

30D310

30D348

BuildPro™ Welding Tables

Modular Welding Tables

Precision ⅝"-thick ground-steel plates have machined ⅝" holes in a 2" grid pattern to locate, position, and hold fixtures with modular clamps and components. 1¾" slot between plates is designed for optimum flexibility.

Note: Welding Tabletops and Modular Fixturing Kits are available online. Go to Grainger.com® and search for "Welding Tabletops" or "Fixturing Kits."

Overall Width	Overall Depth	Overall Height	Load Capacity	PLAIN PLATES Item No.	NITRITED PLATES Item No.
Welding Tables					
38 in	22 in	30 in	1,300 lb	**30D314**	**30D348**
		36 in	1,300 lb	**30D309**	**30D343**
47 in	38 in	24 in	2,600 lb	**30D319**	**30D351**
		30 in	2,600 lb	**30D315**	**30D349**
		36 in	2,600 lb	**30D310**	—
	46 in	36 in	2,600 lb	**30D311**	**30D345**
78 in	38 in	24 in	4,400 lb	**30D321**	**30D352**
		30 in	4,400 lb	**30D317**	**30D350**
		36 in	4,400 lb	**30D312**	**30D346**
	46 in	30 in	4,400 lb	**30D318**	—
		36 in	4,400 lb	**30D313**	**30D347**

Description	Item No.
Table Parts	
Buildpro Welding Table Plate, 6.25 in W x 38 in D x 0.625 in H	**30D307**
Buildpro Welding Table Leg, 25 inH, Includes 1 Table Leg	**30D331**
Buildpro Welding Table Leg, 31 inH, Includes 1 Table Leg	**30D332**
Adjustable Welding Table Leg	**30D333**
Welding Table Leg Brace Kit, Includes (4) Cross Link Tubings, (4) Corner Rail Clamps, For Tables 47" x 38" and 47" x 46"	**30D334**
Welding Table Leg Brace Kit, Includes (4) Corner Rail Clamps, Cross Link Tubings, Line Rail Clamps, For Table 78" x 38"	**30D335**
Welding Table Caster	**30D336**
Modular Fixturing Kit	
(12) Right Angle Plates, (12) Straight Edge Stops, (20) Fixed Ball Lock Bolts, (4) Adjustable Ball Lock Bolts, (4) Eccentric Pads, (4) Magnetic Rest Buttons, (4) Stops, (4) Threaded Adaptors, (4) Top V-Padsfor Clamps, (4) V-Blocks, (8) Inserta-Clamps	**30D325**
(10) Adj. Ball Lock Bolts, (12) Straight Edge Stops, (16) Right Angle Plates, (18) Inserta-Clamps, (2) Connectors, (2) Magnetic Rests, (2) MagSpring Clamps, (2) Pipe Pliers, (2) Table Mount C-Clamps, (30) Fixed Ball Lock Bolts, (4) Eccentric Pads, (4) Mag. V-Pads, (4) Magnetic Rest Buttons, (4) Riser Blocks, (4) Stops, (6) Economy Stops, (8) Threaded Adaptors, (8) Top V-Pads for Clamps, (8) V-Blocks	**30D328**
(10) Adj. Ball Lock Bolts, (12) Straight Edge Stops, (16) Right Angle Brackets, (2) Connectors, (2) Pipe Pliers, (20) Inserta-Clamps, (4) Eccentric Pads, (4) Magnetic Rest Buttons, (4) Magnetic Rests, (4) Magnetic V-Pads, (4) MagSpring Clamps, (4) Stops, (40) Fixed Ball Lock Bolts, (6) Riser Blocks, (8) Economy Stops, (8) Table Mount C-Clamps, (8) Threaded Adaptors, (8) Top V-Pads for Clamps, (8) V-Blocks	**30D329**
(10) Adj. Ball Lock Bolts, (10) Inserta-Clamps, (12) Straight Edge Stops, (16) Right Angle Plates, (2) MagSpring Clamps, (30) Fixed Ball Lock Bolts, (4) Eccentric Pads, (4) Economy Stops, (4) Mag. V-Pads, (4) Magnetic Rest Buttons, (4) Stops, (4) Table Mount C-Clamps, (4) Threaded Adaptors, (4) Top V-Pads for Clamps, (8) V-Blocks	**30D326**

Mobile Welding Cart

Features a Ball Lock Bolt that lets you clamp and fixture your work pieces at just about any point on the reversible, flat, nitrided (heat treated) 30" x 48" tabletop surface, to help assure accuracy in all of your welding and fabrication setups. With integrated shelves, racks, pegboard, and 4 locking casters. Leveling feet help assure stability.

Width	Depth	Height	Surface Thickness	Load Capacity	Includes	Item No.
48 in	30 in	36 in	0.625 in	1,500 lb	(10) Ball Lock Bolts, (12) Magnetic Rest Buttons, (2) Insert Pliers 4 in Cap., (2) Inserta Clamps, (2) Inserta Pliers 2.3 in Cap., (2) Locating Pins, (2) Right Angle Brackets 2 in H, (2) Right Angle Brackets 4 in H, (2) Side Clamps, (2) Top V-Pads, (4) Stops, (4) Stops 1.5 in H, (4) V-Block Spacers, (8) D-Stop Bars, (8) V-Blocks, 2 in H	**52WX59**

10N002

30D255

Miller · Westward · BuildPro™ Welding Tables · Sumner

Welding Tables

Steel tables have prewelded legs with removable steel caps, leveling feet, and a lower storage shelf. 10N002 has a removable gun holder. 494D98 features casters for easy mobility, and includes a 6" X-clamp, side shelf, tool chest, 5" quick-remove vise, and weld curtain, as well as a gun holder, tool holder, and clamp bar. 30D255 has 3-position tilt top with guide rails and 2 casters.

Note: Additional welding table accessories are available at Grainger.com®.

Description	Work Surface	Load Capacity	Brand	Mfr. Model	Item No.
Welding Tables					
F-Series ArcStation	29 in x 29 in	500 lb	Miller Electric	300837	**10N002**
Welding Table	40 in x 24 in	600 lb	Westward	—	**30PA41**
	57 in x 27 in	1,000 lb	Miller Electric	951793	**494D98**
Nomad Portable	30 in x 20 in	350 lb	Buildpro	TS3020	**30D255**
Portable	40 in x 24 in	600 lb	Sumner	783980	**19F661**
Accessory					
Inserta Clamp, 8.5 inW x 4 inD, Includes 1 pc. Threaded Adaptor, For Use With BuildPros			Buildpro	UEN5200	**30D360**
Inserta Clamp, 6.5 inW x 3.25 inD, , For Use With BuildPros			Buildpro	UDN5150	**30D359**
Steel Vise And Vise Mount, 7 inW x 14 inD, Includes Hardware, For Use With 951 168, 951 169, 951 170, Mfr. No. 951 167			Miller Electric	300611	**5FYE6**
Threaded Adaptor, W x D, Includes Magnet, For Use With BuildPros			Buildpro	TXT5205	**30D356**

WALTER Surface Technologies

SURFOX Weld Cleaning Systems

- 120V input

Electrochemical systems remove heat tint from TIG, spot, and pulsed MIG welded stainless steel, while cleaning and passivating the surface to help fight corrosion. With 2 high-resistant and conductive brushes, including a triangular sleeve brush for MIG welds and large surface areas, and a cylindrical sleeve brush for tight corners and spot welds. Include clamp ring, tungsten insert, ground wire with clamp, and carrying case.

406F85

Note: For additional weld cleaning accessories, such as Clamp Rings, Cleaning Pads and Boots go to Grainger.com®.

Trade Name	Amps	Output Voltage	Hose Length	Std.	Item No.
SURFOX MINI	15 A	12 to 30V AC/DC	—	ASTM A967	**406F85**
SURFOX 205	15 A	13 to 30V AC/DC	13 ft	ASTM A968	**406F86**

Visible Dye Penetrants
3WU62

MAGNAFLUX

Welding Penetrants and Inspection Kits

VISIBLE DYE PENETRANT TESTING

Use this 4-step process to detect stress and fatigue cracks in metal surfaces. Kit 3WU62 includes 2 cans each of visible penetrant and developer, 4 cans of cleaner/remover, paint marker, and hand wipes.

FLUORESCENT PENETRANT TESTING

Helps find the tiniest cracks in any metal surface. Very sensitive fluorescent dyes comply with most military specifications for fluorescent inspection.

MAGNETIC PARTICLE INSPECTION

Fluorescent and visible magnetic powders, electromagnetic yokes and testing kits provide a nondestructive method to quickly find defects in ferrous metal.

Description	Mfr. Model	Item No.
Visible Dye Penetrant Testing		
SKC-S NDT Cleaner/Remover, 16 oz. Aerosol*	01-5750-77	**3WU61**
SKD-S2 Penetrant Developer, 16 oz. Aerosol*	01-5352-77	**3WU60**
SKL-WP2 Water-Removable Dye Penetrant, 11.6 oz Aerosol*	SKL-WP2	**35LV23**
SK-816 Solvent-Removeable Penetrant Test Kit, 8 Aerosol cans	SK-816	**3WU62**
Fluorescent Penetrant Testing		
ZP-9F Penetrant Developer, 16 oz. Aerosol	ZP-9F	**48K597**
Magnetic Particle Inspection		
14AM Fluorescent Magnetic Particle Liquid, 16 oz. Aerosol	14AM	**40JW42**
WCP-2 White Contrast Paint, 16 oz. Aerosol	01-2250-77	**6WZT5**
7HF Black Visible Magnetic Particles, 16 oz. Aerosol	01-1580-77	**6WZT6**
20B Fluorescent Magnetic Particle Premix, 30 lb./13.6 kg. Pail	01-0179-84	**6WZT7**
#8A Red Visible Magnetic Particle Powder, 10 lb./4.53 kg. Pail	01-1780-69	**35LV22**

** Total weight of liquid and compressed gas.*

Layout Fluid
2C928

Layout Fluid Remover and Prep
2E001

Layout Fluid Remover
1D271

Weldable Primer
31MF04

DYKEM Brand · Sprayon · Tempil°

Layout Fluids, Removers And Primers

LAYOUT FLUIDS

DYKEM STEEL BLUE and STEEL RED—Dry quickly, for minimal prep time before scribing. Stay flexible without cracking or chipping. Noncorrosive and toluene-free.

Blue Layout Fluid—Fast-drying, nonflaking, non-etching, and won't peel. Adheres to all metals or glass. EZ Touch® Fanspray nozzle. Dark blue color. Methylene Chloride free.

DYKEM Hi-Spot Blue—Even-spreading paste shows high spots on bearings. Non-hardening film coating may be left on surfaces to reduce clean up and re-bluing time.

DYKEM Machining Layout Fluid—Permanent stain provides easy identification of fasteners, parts, inventory, tools, or assemblies. Dries quickly and resists moisture, grease, and oils.

LAYOUT FLUID REMOVERS AND PREP

DYKEM Remover and Prep—Remove and dilute layout fluids and staining colors. Dries in minutes. Does not contain toluene, 1,1,1-trichloroethane, chlorofluorocarbons, or chlorinated solvents.

Layout Fluid Remover—Specifically formulated to remove layout fluids quickly and efficiently.

WELDABLE PRIMERS

Help eliminate the need to clean metal surfaces before welding. Corrosion- and rustproof primer can be applied to a wide range of metals. Ability to strike welding arc without removal. Max. temp.: 800°F. Dry time: 6 hr. Aluminized finish. 31MF04 is a 12 oz. aerosol can. 31MF05 comes in 1 gal. can.

Description	Color	Size	Brand	Mfr. Model	Item No.
Layout Fluids					
DYKEM® STEEL BLUE®	Blue	2 oz.	DYKEM	80200	**2C936**
	Blue	4 oz.	DYKEM	80300	**2C945**
	Blue	12 oz.	DYKEM	80000	**2C928**
	Blue	930 mL	DYKEM	80600	**2C967**
DYKEM® STEEL RED™	Red	4 oz.	DYKEM	80396	**2GKW2**
	Red	16-oz. Aerosol	DYKEM	80096	**2C933**
	Red	930 mL	DYKEM	80696	**2GKW3**
Blue Layout Fluid	Blue	12-oz. Aerosol	Sprayon	SC0603000	**1D272**
DYKEM® Hi-Spot Blue	Blue	0.55 oz.	DYKEM	83307	**2GKW4**
DYKEM® Machining Layout Fluid	Black	1 gal.	DYKEM	81724	**2GKW8**
	Blue	8-oz. Brush-In-Cap	DYKEM	81478	**2GKW7**
	Dark Blue	1 gal.	DYKEM	81778	**2GKW9**
	Light Blue	1 gal.	DYKEM	81725	**2GKX8**
	Dark Green	1 gal.	DYKEM	81706	**2GKX9**
	Light Green	1 gal.	DYKEM	81708	**2GKY1**
	Orange	8-oz. Brush-In-Cap	DYKEM	81413	**2GKX4**
	Orange	1 gal.	DYKEM	81713	**2GKY2**
	Red	8-oz. Brush-In-Cap	DYKEM	81491	**2GKX5**
	Red	1 gal.	DYKEM	81791	**2GKY3**
	White	8-oz. Brush-In-Cap	DYKEM	81427	**2GKX6**
	White	1 gal.	DYKEM	81727	**2GKY4**
	Yellow	8-oz. Brush-In-Cap	DYKEM	81405	**2GKX7**
	Yellow	1 gal.	DYKEM	81705	**2GKY5**
Layout Fluid Removers and Prep					
DYKEM® Remover and Prep	Clear	16-oz. Aerosol	DYKEM	82038	**2C991**
	Clear	930 ml Bottle	DYKEM	82638	**2E001**
Layout Fluid Remover	Clear	16-oz. Aerosol	Sprayon	SC0606000	**1D271**
Weldable Primer					
Bloxide - Aluminized Aerosol	—	12 oz.	Tempil	24104	**31MF04**
Bloxide - Aluminized Gallon	—	1 gal.	Tempil	24100G	**31MF05**

Anti-Spatter

Nonflammable formulas help keep tools and workpieces clean for reduced downtime. Paint over without a separate cleaning step.

2F137

24A418

Description	Container	Item No.
Arcair		
Tip Dipping®, Gel	Jar, 16 oz	**2XRN8**
CRC		
Aerosol®, Liquid	Aerosol Can, 16 oz	**2F137**
Loctite		
SF 7900™, Lubricant	Aerosol Can, 9.5 fl oz	**29FX35**
Walter Surface Technologies		
Ceramic Chemical Compound	Aerosol Can, 13.5 oz	**52HR21**
Water Based	Drum, 55 gal	**49YK13**
Weld Aid		
HD Nozzle-Dip® Gel, Water Based	Plastic Jar, 1 pt	**24A412**
	Plastic Jar, 32 oz	**24A413**
Nozzle-Kleen® #2, Solvent	Aerosol Can, 16 oz	**24A407**
Nozzle-Kleen® HD, Solvent	Aerosol Can, 16 oz	**24A406**
Weld Kleen® 350® Spray, Water Based	Aerosol Can, 16 oz	**24A417**
	Plastic Container, 32 oz	**24A418**
	Plastic Container, 1 gal	**24A419**
	Plastic Container, 5 gal	**24A420**
	Metal Drum, 55 gal	**24A421**
Weld-Kleen® HD, Solvent	Aerosol Can, 20 oz	**24A416**

Red-Riter®

Flat Soapstones 5KH40

Welding Pencil, Markers & Soapstones

Welding Pencil And Markers—Use as an alternative to soapstone to create torch-resistant markings that will not rub, burn, or blow off. Reflective silver and red colors improve visibility when cutting or welding.

Soapstones—Produce highly visible layout lines on metal or concrete. 5KH41 and 5KH43 include holders with built-in sharpener and pocket clip.

Description	Brand	Item No.
Welding Pencil		
Red-Riter®, 1⁄16 in Point Tip	Markal	**32PK95**
Welding Markers		
Silver-Streak®, ⅛ in Round Tip	Markal	**1XEG4**
Soapstones		
Flat Soapstone, Pk. of 144	Uniweld	**5KH40**
Flat Soapstone, Pk. of 144	Markal	**2F900**
Round Soapstone, Pk. of 144	Uniweld	**5KH42**
Soapstone Kits		
6-Pc. Flat Soapstone Kit with Holder	Uniweld	**5KH41**
6-Pc. Round Soapstone Kit with Holder	Uniweld	**5KH43**
Soapstone Holder		
Soapstone Holder, Flat	Markal	**2F902**

Brite Zinc Galvanizing Compounds

Paintable, rust-free coatings match the look of hot-dipped galvanizing. Pass ASTM A780 inspection. Galvanized bare steel can be unpainted. Dry time: 15 to 30 minutes. Bare Steel formula is 95% zinc-rich bare steel for maximum corrosion protection and mechanical durability. 24A431 and 24A433 have nonclogging aerosol spray head.

24A431

For Use With	Size	Coverage	Item No.
Galvanized Material	16 oz	26 sq ft	**24A431**
	1 gal	570 sq ft	**24A432**
Bare Steel	16 oz	26 sq ft	**24A433**
	1 gal	644 sq ft	**24A434**

Red Felt Pads 24A429

Nozzle-Kleen® Tools

Temperature Sticks

Temperature Stick G6576

- Accuracy: ± 1%

Temperature indicators mark surfaces with a chalky and dull marking that changes to see-through and glossy at the rated temperature. Can be used in in annealing, forging, welding, bonding, forming, and similar applications. Include nonslip gravity-advance holder.

▶CHOOSE: Temp. Range	Tip Size	Brand	Item No.
Temperature Sticks, Individual			
150°F, 200°F, 250°F, 300°F, 350°F, 400°F	⅜ in	Markal	**G6576**
100°F, 125°F, 175°F, 213°F, 225°F, 275°F, 325°F, 375°F, 425°F, 450°F, 500°F, 550°F, 600°F, 650°F, 700°F	½ in	Markal	**G6576**
100°F, 150°F, 175°F, 213°F, 250°F, 275°F, 300°F, 325°F, 350°F, 375°F, 425°F, 450°F, 600°F, 650°F, 700°F, 800°F, 212°F, 248°F, 302°F, 392°F	⅜ in	Tempil	**J4714**

Spatter Cleaning and Wire Lubrication Pads and Tools

Lube-Matic®—Engineered to reduce tip and liner wear, burnback, and wire jams, and to promote smoother arc feed. Black felt pads are for all types of steel wire; pretreated with Lube-Matic liquid. Red felt pads are for cleaning all wire; excellent for aluminum. Liquid cleaner/lubricant helps reduce wire drag 60%.

Nozzle-Kleen®—Remove spatter from nozzles, tips, and diffusers, and clean torches without disassembly.

Description	Size	Item No.
Lube-Matic® Felt Pads		
Black, for Lubricating Steel Wire	Pk. of 6	**24A428**
Red, for Cleaning WIre	Pk. of 6	**24A429**
Combo Pack - 1 Black, 1 Red	Pk. of 2	**24A430**
Lube-Matic® Liquid		
Cleaner/Lubricant	3.75 oz. Can	**24A426**
Nozzle Kleen® Welding Tools		
⅜" Nozzle	¼" Tip Cleaner	**24A401**
½" Nozzle	5⁄16" Tip Cleaner	**24A402**
⅝" Nozzle	5⁄16" Tip Cleaner	**24A403**
	⅝" Tip Cleaner	**24A404**
¾" Nozzle	¾" Tip Cleaner	**24A405**

30AA61

Specialty Welding Regulators

Gas Service	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Gauge Size	Brand	Mfr. Model	Item No.
Air	0 to 125 psi	CGA-590	¼ in MNPT	2 in	Harris	KH1118	**30AA63**
Argon, Helium, Nitrogen	0 to 1500 psi	CGA-580	¼ in NPT x ¼ in Stainless Steel Tube Fitting	2 ½ in	Harris	KH1114	**30AA59**
	0 to 2000 psi	CGA-580	⅛ in SST Tube Fitting	2 ½ in	Smith Equipment	825-8109	**45PW93**
	0 to 3000 psi	CGA-680	¼ in NPT x ¼ in Stainless Steel Tube Fitting	2 ½ in	Harris	KH1116	**30AA61**
Carbon Dioxide	0 to 125 psi	—	¼ in FNPT	2 ½ in	Harris	7051253201	**30AA78**
Nitrogen	20 to 400 psi	CGA-580	¼ in Flare M	2 in	Uniweld	RHP400	**39DM33**
	50 to 800 psi	CGA-580	¼ in Flare M	2 in	Uniweld	RHP800	**39DM34**
	200 to 3000 psi	CGA-680	¼ in NPTF	2 in	Uniweld	RHP3680	**39DM35**
Non-Corrosive Inert	0 to 1000 psi	CGA-580	¼ in FNPT	2 ½ in	Smith Equipment	824-0009	**2CZV1**
	0 to 2000 psi	CGA-580	¼ in FNPT	2 ½ in	Smith Equipment	825-0009	**2CZV2**
	0 to 4000 psi	CGA-580	¼ in FNPT	2 ½ in	Smith Equipment	826-0009	**2CZV3**

Welding Regulators

- Single stage

Victor®—Durable forged brass body and cap. Feature stem-type seat mechanism for accurate gas flow, and Delrin® cap bushing. Edge Series regulators have high contrast graphics, built-in gauge guard, and 5-yr. warranty.

Miller—Filtered Sure Seat™ filtered seats prevent contamination from entering the seating area, reducing repair costs and downtime. Made with a rugged forged brass body, nickel-plated bonnet, and neoprene composite diaphragm.

Harris—Feature an encapsulated 1-pc. PTFE capsule seat assembly with 10-micron filter. 5KZ42 has a forged brass body and cap, along with a stem-type seat mechanism, stainless steel diaphragm, and Delrin® insert bushing.

TurboTorch—Check pressure, test, and purge lines prior to brazing to protect joints against oxidation. Easy-to-read 2" gauges with forged brass body and housing cap. Gauges are marked with dual graduations, psig and kPa.

Uniweld®—Includes a polished chrome bonnet, easy-to-read 2" gauge, neoprene diaphragm, and heavy-duty stem-type seat-and-nozzle assembly.

54RZ86

5EFX1

Gas Service	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Gauge Size	Series	Brand	Mfr. Model	Item No.
Acetylene	2 to 15 psi	CGA-300	9/16"-18 M LH	2 in	Professional SR260A-300	Victor	0781-0085	**5KJ66**
		CGA-510	9/16"-18 M LH	2 in	Professional SR260A-510	Victor	0781-0087	**5KJ67**
		CGA-510	9/16"-18 M LH	2 ½ in	Edge 2.0	Victor	0781-3602	**54RZ85**
		CGA 300	9/16"-18 M LH	2 ½ in	Edge 2.0	Victor	0781-3603	**54RZ86**
		CGA-300	9/16"-18 M LH	2 ½ in	Professional SR460A-300	Victor	0781-0583	**20UK05**
		CGA-510	9/16"-18 M LH	2 ½ in	Professional SR460A-510	Victor	0781-0584	**5KJ71**
		CGA-510	9/16"-18 M LH	2 in	ESS3	Victor	0781-3628	**482W16**
	15 psi	CGA-200	9/16"-18 LH B	2 in	30	Miller Electric	30-15-200	**5EFW6**
		CGA-510	9/16"-18 LH B	2 in	30	Miller Electric	30-15-510	**5JPH5**
Acetylene, Oxygen	100 psi Oxygen/15 psi Fuel	CGA-540 Oxygen/ CGA-300 Acetylene	9/16"-18 RH Oxygen/9/16"-18 LH Fuel	2 in	30	Miller Electric	HTP5	**3LVR3**
Argon, Helium, Nitrogen	0 to 125 psi	CGA-580	9/16"-18 M RH	2 ½ in	425	Harris	425-125-580	**5KZ46**
	0 to 200 psi	CGA-580	9/16"-18 M RH	2 ½ in	425	Harris	425-200-580	**5KZ47**
	0 to 500 psi	CGA-580	¼ in SAE 45° Flared	2 ½ in	25GX	Harris	25GX-500-580	**5KZ42**
	10 to 250 psi	CGA-580	¼ in-37 ° Flared	2 in	TPR250-580	Victor	0781-9134	**20UK20**
	100 to 1500 psi	CGA-580	¼ in Swagelok	2 ½ in	Professional SR4G-580	Victor	0781-1428	**20UK09**
	200 to 3000 psi	CGA-580	¼ in Swagelok	2 ½ in	Professional SR4J-580	Victor	0781-1448	**20UK11**
Argon, Nitrogen	150 psi	CGA-580	5/8"-18 RH Internal	2 in	30	Miller Electric	30-150-580	**5EFW8**
Hydrogen, Methane	100 psi	CGA-350	9/16"-18 LH B	2 in	30	Miller Electric	30-100-350	**5EFX0**
Inert	5 to 125 psi	CGA-580	5/8"-18 F RH	2 ½ in	Professional SR450D-580	Victor	0781-0528	**5KJ69**
	500 psi	CGA-580	¼ in-37 ° Flared	2 in	TPR250-500-580	Victor	0781-9135	**5KJ83**
Liquefied Propane	50 psi	CGA-510	9/16"-18 LH B	2 in	30	Miller Electric	30-50-510	**5EFW7**
Nitrogen	2 to 250 psi	CGA-580	¼ in-37 ° Flared	2 in	245-02P	TurboTorch	0386-0813	**2CZH8**
	2 to 500 psi	CGA-580	¼ in-37 ° Flared	2 in	245-03P	TurboTorch	0386-0814	**2CZH9**
	275 psi	CGA-580	5/8"-18 RH Internal	2 ½ in	40	Miller Electric	40-275-580	**5JPH2**
	450 psi	CGA-580	7/16"-20 Flared	2 in	30	Miller Electric	30-450-580	**5EFX1**
Oxygen	0 to 125 psi	CGA-540	9/16"-18 M RH	2 ½ in	425	Harris	425-125-540	**5KZ43**
	4 to 80 psi	CGA-540	9/16"-18 M RH	2 in	Professional SR250C-540	Victor	0781-0027	**5KJ63**
	5 to 125 psi	CGA-540	9/16"-18 M RH	2 in	Professional SR250D-540	Victor	0781-0043	**20UK01**
		CGA-540	9/16"-18 M RH	2 ½ in	Professional SR460A-510	Victor	0781-0527	**5KJ68**
		CGA-540	9/16"-18 M RH	2 in	ESS3	Victor	0781-3627	**482W15**
		CGA-540	9/16"-18 M RH B	2 in	RUH	Uniweld	RUH8210	**39DM36**
	5 to 150 psi	CGA-540	9/16"-18 M RH	2 ½ in	Edge 2.0	Victor	0781-3601	**54RZ84**
	20 psi	CGA-540	9/16"-18 RH B	2 in	30	Miller Electric	30-20-540	**5JPH4**
	100 psi	CGA-540	9/16"-18 RH B	2 in	30	Miller Electric	30-100-540	**5JPH3**
	175 psi	CGA-540	9/16"-18 RH B	2 in	40	Miller Electric	40-175-540	**5JPG5**
	200 to 3000 psi	CGA-540	¼ in Swagelok	2 ½ in	Professional SR4J-540	Victor	0781-1445	**20UK10**

High Purity Regulators

- 2½" gauge
- 2" body dia.

Encapsulated filtered seat design helps prevent contaminants from entering seating area, while the nickel-plated finish with brass/stainless steel barstock construction prevents outgasing. Stainless steel diaphragm. Built-in safety relief valve. Two-stage models provide precise pressure control of carrier gases or calibration mixtures used in chromatography or for thermal conductivity.

Gas Service	Inlet Connec.	Outlet Connec.	Supply Pressure Gauge	Delivery Pressure Range	Item No.
Single Stage-Stage, Brass Body					
Inert, Non-Corrosive	¼ in FNPT	¼ in FNPT	—	100 psi	**6PHG8**
Argon, Helium, Inert, Nitrogen	CGA-580	⅛ in Brass Tube Fitting	4,000 psi	0 to 15 psi	**3CEV5**
		⅛ in Brass Tube Fitting	4,000 psi	0 to 150 psi	**3CEV6**
Two Stage-Stage, Brass Body					
CO2	CGA-320	⅛ in Brass Tube Fitting	4,000 psi	0 to 150 psi	**3EKZ9**
Hydrogen	CGA-350	⅛ in Brass Tube Fitting	4,000 psi	0 to 15 psi	**3ELA1**
		⅛ in Brass Tube Fitting	4,000 psi	0 to 150 psi	**3ELA2**
Argon, Helium, Inert, Nitrogen	CGA-580	⅛ in Brass Tube Fitting	4,000 psi	0 to 15 psi	**3ELA3**
		⅛ in Brass Tube Fitting	4,000 psi	0 to 150 psi	**3ELA4**
Two Stage-Stage, 316 Stainless Steel Body					
Corrosive	CGA-330	¼ in FNPT x ¼ in Diaphragm Valve with ¼ in Tube Fitting	4,000 psi	0 to 100 psi	**3ELC1**

Single-Stage 3CEV5

Flow Gauge and Flowmeter Regulators

Use for shielding gas with argon or CO_2 in MIG and TIG welding. Flow gauge regulators are for accurate measurement of gas flow. Flowmeter regulators incorporate flowmeter and regulator into one compact unit.

Gas Service	Delivery	Delivery Pressure Range	Inlet Connec.	Outlet Connec.	Supply Pressure Gauge	Brand	Item No.
Flow Gauge Regulator, Single Stage-Stage							
Argon	0 to 50 scfh	50 cfh	CGA-580	5/8"-18 RH Internal	4,000 psi	Miller Electric	**5EFY1**
		50 cfh	CGA-580	5/8"-18 RH Internal	4,000 psi	Miller Electric	**5EFY2** *
CO2		50 cfh	CGA-320	5/8"-18 RH Internal	4,000 psi	Miller Electric	**5EFY3**
Flowmeter, Single Stage-Stage							
Argon, Carbon Dioxide, Helium	50 psi	50 psi	¼ in MNPT	5/8"-18 RH Internal	—	Miller Electric	**5EFZ0**
Flowmeter Regulator, Dual, CGA Outlet 5/8"-18 F RH							
Argon, Helium	0 to 45 cfh Ar/0 to 140 cfh He	0 to 4000 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Harris	**5KZ68**
Flowmeter Regulator, Single-Stage							
Argon, Carbon Dioxide	Up to 50 cfh Ar and 38 cfh CO2	80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**20UK17** †
Flowmeter Regulator, Single Stage-Stage							
Argon, Carbon Dioxide	10 to 50 cfh	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**5KJ73**
	Up to 50 cfh Ar and 38 cfh CO2	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**20UJ95**
		25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**20UK16** †
		80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**20UK14**
		80 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**20UK15**
Argon, Carbon Dioxide, Helium	0 to 50 scfh CO2, 0 to 160 scfh He, 0 to 60 scfh Ar/CO2 Mix	50 psi	CGA-580	5/8"-18 RH Internal	0 to 4000 psi	Miller Electric	**5EFX9**
		50 psi	CGA-580	5/8"-18 RH Internal	0 to 4000 psi	Miller Electric	**5EFY0** *
	10 to 50 cfh Ar/20 to 150 cfh He	25 psi	CGA-580	5/8"-18 F RH	0 to 4000 psi	Victor	**5KJ76**
CO2	10 to 38 cfh	80 psi	CGA-320	5/8"-18 F RH	0 to 4000 psi	Victor	**5KJ74**

** Includes 6-ft. hose with inert hose connections. † Includes 10-ft. hose.*

Flow Gauge Regulator 5EFY1

20UK16

Heavy-Duty Series
22UM02

The Wurks®
3NY90

Performer Edge™
Series 2.0
482W08

Cutting, Welding, and Heating Outfits

Medium and heavy duty outfits feature in-tip gas mixing technology and include torch mount flashback arrestors. Tag-A-Long™, Toughcut™, Versa-Torch™, and The Wurks® outfits include: torch handle, cutting attachment, cutting and welding tip, oxygen and acetylene regulators, twin welding hose, goggles, and striker.

Note: For more Consumables visit Grainger.com®.

CUTTING, WELDING, HEATING

Heavy-Duty—Combo outfits cut up to 8" and weld up to ½" with optional tips.

Journeyman®—Include cutting tip, heating and welding nozzles, ¼" x 20-ft. T-grade hose, goggles, striker, and tip cleaner. 54RZ72 and 54RZ75 have a CGA 300 connection, which uses a right-hand female thread on the regulator. 54RZ73 and 54RZ76 have a CGA 510 connection, which uses a left-hand male thread on the regulator.

Mastar® Maintenance—Lightweight, portable oxygen/acetylene outfits include a thruster air/acetylene tip and air/fuel adapter to convert welding handle for soldering with acetylene only, and eliminate use of oxygen. All outfits include industrial-grade regulators with easy-to-adjust T-handles, WH550 rear valve welding handle, welding tip, carrying stand or rolling cart for MC or B and R or R40 tanks (tanks not included), 12½-ft. twin hose, flint lighter, and goggles.

Medium-Duty—Cut up to 6" and weld up to ⅜" with optional tips.

The Wurks®—12-pc. kit for welding, brazing, cutting, and soldering tool box. All fuel gases are mixed in tip for maximum safety. Includes tip cleaner set with 12 sizes of cleaning wires and file and all-leather welding gloves. Packed in The Wurks Box with tray.

Versa-Torch™—Versatile system has nickel-plated torch handle, cutting attachment, heat tip and carrier, and reverse flow check valve. Cuts up to ⅜" and 3" with optional tips. Welds up to ⅛".

CUTTING, WELDING

Journeyman® 450—Includes cutting tips and welding nozzle.

Performer Edge™ Series 2.0—Heavy-duty outfits cut up to 6" and weld up to ¼" with accessories. They include 2 regulators, cutting attachment, welding handle, welding nozzle, heating nozzle, tip cleaners, striker, T-grade hose, and goggles.

Tag-A-Long™—Portable and light-weight outfits feature Series 30 regulators and reverse flow check valves. Cut up to ⅜" and 6" with optional tips. Weld up to ⅛" and ½" with optional tips. 6GJG1 also includes oxygen and fuel regulator, oxygen and acetylene cylinders, and lighter. Acetylene regulator not included.

CUTTING, HEATING

Heavy-Duty Series—Torch and hand torch outfits cut up to 12" with optional tips.

Description	Torch Handle	Cutting Attachment	Welding Nozzles	Cutting Tips	Pressure Regulator	Brand	Mfr. Model	Item No.
Cutting, Welding, Heating								
Heavy-Duty Series								
Heavy Duty Torch Outfit	—	SC229	—	SC12-2	40-175-540S Oxygen, CGA540 Oxygen, 40-15-510S Fuel, CGA 510 Fuel, 40-15-300S Fuel, CGA 300 Fuel	Miller Electric	HBS-H300S	**22UM04**
Heavy Duty Hand Torch Toolbox Outfit		SC229	—	SC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	HBAS-30300	**22UM08**
		SC229	—	SC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	HBAS-30510	**22UM07**
Heavy Duty Combination Torch Outfit	WH200A	SC209	SW205	SC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	HBA-30300	**22UM02**
Gas Welding Outfit		SC209	SW205	SC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	HBA-30510	**22UM01**
Combo Torch And Tip Kit	WH100	MC509	MW203	MC12-1	—	Miller Electric	16205	**22UM09**
Journeyman								
Cutting Outfit	315FC+	CA2460+	1, 3, 5	1 Series	ESS42-15-300 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2100	**54RZ72**
		CA2460+	1, 3, 5	1 Series	ESS42-15-510 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2101	**54RZ73**
Journeyman II								
Cutting Outfit	315FC+	CA2460+	2	1 Series	ESS42-15-300 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2110	**54RZ75**
		CA2460+	2	1 Series	ESS42-15-510 Acetylene, ESS42-150-540 Oxygen	Victor	0384-2111	**54RZ76**
Mastar® Maintenance								
For B Acetylene Tank and R or R40 Oxygen Tank, without Tanks**	WH550	CA550	Type 17#2	5-101-0	RSO/RSB2	Uniweld	KLT550-5TR	**5KH27**
For MC/R, without Tanks**		CA550	Type 17#2	5-101-0	RSO/RSMC2	Uniweld	KLT550-4P	**5KH25**
With MC/R Tanks*		CA550	Type 17#2	5-101-0	RSO/RSMC2	Uniweld	KLT550-4P-T	**5KH26**
Medium-Duty Series								
Medium Duty Combination Outfit	WH100	MC509	MW205	MC12-0, MC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	MBA-30510	**22UM11**
Medium Duty Combination Torch Lp Combination Outfit		MC509	—	MC40-1	30-100-540, 30-50-510	Miller Electric	MBA-30510LP	**22UM12**
Medium Duty Combination Outfit		MC509	MW205	MC12-0, MC12-1	30-100-540 Oxygen, 30-15-300 Fuel, 30-15-510 Fuel, CGA 300 Fuel, CGA 510 Fuel, CGA 540 Oxygen	Miller Electric	MBA-30300	**22UM14**
Gas Welding Outfit	WH200A	SC209	SW203	SC12-1	—	Miller Electric	16206	**22UL98**
The Wurks®								
Without Tanks	WH370	CA370	Type 370#3	144#1	MR8210/MR8211	Uniweld	WURKS-A	**3NY90**
Versa-Torch™								
Refrigeration And A/C Outfit	AW1A	AC309	LT103, LT104, LT106	MC12-00	30-100-540, 30-15-200	Miller Electric	VT-4T	**2CZK5**
Cutting, Welding								
Journeyman 450								
Cutting And Welding Outfit	315FC	CA2460	2	1 Series	SR450-540, SR460-510	Victor	0384-0807	**20UJ92**
Performer Edge™ Series 2.0								
Gas Welding Outfit	100FC	CA1350	(W-1) 0	3 Series	ESS3-125-540, ESS3-15-510	Victor	0384-2125	**482W08**
		CA1350	(W-1) 0	3 Series	ESS3-125-540, ESS3-15-300	Victor	0384-2126	**482W09**
Tag-A-Long™								
Welding And Cutting Tote	CW5A	CC509P	MW203	MC12-0	30-100-540, 30-15-200	Miller Electric	TL-500	**2CZK4**
Outfit W/Tanks		CC509P	MW203	MC12-0	30-100-540 Oxygen, 30-15-200 Fuel	Miller Electric	TL-550	**6GJG1**
Cutting, Heating								
Heavy-Duty Series								
Heavy Duty Combination Torch Lp Outfit	WH200A	SC209	—	SC40-1	30-100-540, 30-15-510	Miller Electric	HBA-30510LP	**22UM05**
Accessories								
Circle Cutting Guide								
Cuts from ⅝" to 12" Holes						Miller Electric	16229	**6PHD0**
Empty Fuel Cylinder								
Fuel Cylinder, Oxygen, 20 cu-ft.						Uniweld	R	**2CZW9**
Fuel Cylinder, Acetylene, 10 cu-ft.						Uniweld	MC	**2CZW7**
GASAVER™								
Acetylene/Oxygen Gas Saver						Miller Electric	WDW101	**2CZN4**
Torch Valve For Use With Low Pressure Gas and Oxygen						Miller Electric	WDW103	**6PHK1**

** Includes premium tubing cutter. ** Includes mini tubing cutter.*

TURBOTORCH

Portable Totes

Designed for HVAC and light fabrication applications, these portable outfits feature a molded, plastic carrying case with an ergonomic handle and balanced design for easy carrying. The built-in storage compartments help you keep your consumables and other accessories right at-hand. All include Oxygen regulator, fuel regulator, 12.5-ft. dual 3⁄16" hose, goggles, check valve, striker, and tank key.

Note: For the full contents of each outfit, go to Grainger.com® and search by Item No.

Trade Name	Torch Handle	Cutting Attachment	Welding Nozzles	Cutting Tips	Gas Tank Capacity	Pressure Regulator	Mfr. Model	Item No.
G150-J-P	103-01FP	CA1260	0-W-J, 2-W-J	3 Series	—	R150-200, R150-540	0384-0945	**49JP39**
G150-J-PT	103-01FP	CA1260	0-W-J, 2-W-J	3 Series	10 cu. ft.		0384-0946	**49JP40**
G150-J-CP	103-01FP	CA1260	0-W-J, 2-W-J	3 Series	—		0384-0947	**49JP41**
G150-J-CPT	103-01FP	CA1260	0-W-J, 2-W-J	3 Series	10 cu. ft.		0384-0948	**49JP42**
G150-100-CP	100FC	CA1350	1-W-1	3 Series	—		0384-0943	**49JP37**
	100FC	CA1350	1-W-1	3 Series	10 cu. ft.		0384-0944	**49JP38**

G150-J-P
49JP39

G150-J-CPT
49JP42

Miller UNIWELD SUPPLIER DIVERSITY

Brazing Outfits

QUICKBRAZE®

- Concentrated 6000°F flame

Provides pinpoint heat with precise flame control to repair leaks in sealed systems and other HVAC applications. Brazes from ½" to 1⅜".

LITTLE TORCH™

Torches produce controlled, stable flames—from pinhead-small to large enough to silver-solder large objects—that are hot enough to melt commercially weldable metals, glass, and ceramics. Include an 8-ft. hose. Caddy Outfit 6GJG5 also includes a cylinder/torch caddy, acetylene and oxygen regulators, a pair of reverse flow check valves, an oxygen cylinder, and an acetylene cylinder.

CAP'N HOOK®

Lightweight, portable oxygen/acetylene outfits feature MTF #5 Cap'n Hook 5-flame tip. Complete with 71 front-valve welding handle, welding tip, oxygen and acetylene regulators, carrying stand, hose, flint lighter, and goggles. 22UL96 and 22UL97 include cutting attachment and cutting tip.

ACCESSORIES

Cap'n Hook Welding/Brazing Tips

Heat copper tubing to 5600°F with pinpoint accuracy. Fit Uniweld 71 and WH550 welding handles. 100% wrap-around heat.

Cap'n Hook Torch Kit

Instantly upgrades torch kit for micro maintenance work. Includes lightweight 71 welding handle for "A" hose connections, Cap'n Hook 5-flame tip which provides even distribution of heat for various tube brazing applications, and 2 high-performance Micro 6000 tips for pinpoint accuracy in tight places: MTW #2 for brazing or welding, and MTT flexible twin tip for brazing return ends without overheating adjacent brazed joints.

Flame Barrier

Provides a protective barrier between flammable surfaces and open flames. Has structural integrity up to 2300°F and a melting temperature of 3200°F.

Tuning Fork™ Tip

Helps remove and replace heat pump reversing valves without destroying original copper tube and fittings. Heats all fittings at once for easy removal. Fits Uniweld 71 and WH550 welding handles.

2CZJ5

5KH19

CAP'N HOOK® TIP PERFORMANCE CHART

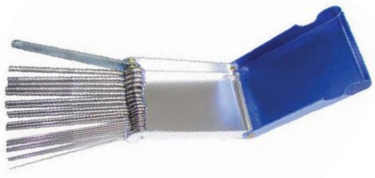
Item No.	Acetylene Cons. SCFH	Oxygen Pressure PSIG	Acetylene Pressure PSIG	Brazing Copper Tubing
20K961	4 to 6	8	5	1"
20K962	5 to 9	10	7	2"
20K963	8 to 14	18	12	3"

Torch Handle	Welding Nozzles	Pressure Regulator	Brand	Mfr. Model	Item No.
Quickbraze®					
11-1116	—	—	Miller Electric	23-5005A	**2CZJ5**
Little Torch					
11-1101C Torch	12-1401-03 to -07	—	Miller Electric	23-1001D	**2CZK8**
	12-1401-03 to 07	30-15-200 Acetylene, 30-20-540 Oxygen	Miller Electric	23-1004A	**6GJG5**
Cap'n Hook®					
71	Type 17#2	RO/RMC2	Uniweld	K22P	**5KH19**
		RO/RMC2	Uniweld	KL22P	**22UL97**
		RO/RMC2	Uniweld	K22P-TU	**5KH20**
		RO/RMC2	Uniweld	KL22P-T	**22UL96**
Accessories					
Cap'n Hook, Brazing Tip Size 5			Uniweld	MTF-5	**20K961**
Cap'n Hook, Brazing Tip Size 9			Uniweld	MTF-9	**20K962**
Cap'n Hook, Brazing Tip Size 17			Uniweld	MTF-17	**20K963**
Cap'n Hook Torch Kit			Uniweld	71MHK	**5TT88**
Flame Barrier Pad (12 x 12")			Uniweld	FB12	**5KH12**
Tuning Fork 8-Flame Tip, Size 17			Uniweld	TYPE17TFT	**45EV14**
3-Tip Set; Includes MTT, MTW#2, and MTR Tips			Uniweld	KMT	**5KH28**

Spiral Tip Cleaners and Flint Lighters

High-quality, spiral tip cleaners quickly and easily clean out tip orifices. Rustproof, wires are stainless steel. Aluminum case features locked knot that secures small wires and includes hardened steel file. Tip cleaner data and drill reference size stamped on back of case. Flint Lighters safely and quickly ignite tips on torches and cutting attachments. Flints can be easily replaced.

Description	Item No.
Spiral Tip Cleaners	
13-Pc. Standard Set, 2½" Length	**2CYY5**
13-Pc. Extra Long Set, 4½" Length	**2CYX6**
21-Pc. Master Set, 2½" Length	**2CYX5**
Flint Lighters	
Single Flint Lighter, Includes 5 Flint Renewals	**2CYX8**
Triple Flint Lighter, Includes 1 Flint Renewal	**2CYY2**
Single Flint Lighter, Includes Flint Renewals and Standard Tip Cleaner	**2CYX7**
Triple Flint Lighter, Includes Flint Renewals and Standard Tip Cleaner	**2CYY1**
Replacement Flints	
Single Flint Renewal, Replace Flint In Single Striker (2) Pkg. of 5	**2CYX9**
Triple Flint Renewal, Replaces Flint In Triple Striker	**2CYY3**


21-Pc. Spiral Tip Cleaner
2CYX5

Triple Flint Lighter
2CYY2

Brazing Wire Kit
3THE8

Gas Welding Rods
41R244

Brazing Alloy Rods
3THE4

Oxy-Fuel Welding Rods and Brazing Alloys

Dia.	Container Size	Container Type	Brand	Item No.	Pkg. Qty.
Carbon Steel Gas Welding Rod					
R45					
1/16 in	1 lb	Tube	Westward	**41R243**	1
	10 lb	Box	Westward	**41R244**	1
3/32 in	1 lb	Tube	Westward	**41R245**	1
1/8 in	1 lb	Tube	Westward	**41R247**	1
	10 lb	Box	Westward	**41R248**	1
R60					
1/16 in	1 lb	Tube	Westward	**41R249**	1
	10 lb	Box	Westward	**41R250**	1
3/32 in	1 lb	Tube	Westward	**41R251**	1
	10 lb	Box	Westward	**41R252**	1
1/8 in	1 lb	Tube	Westward	**41R253**	1

Description	Dia. (in.)	L (in.)	Brazing Range (°F)	Container	Brand	Item No.	Pkg. Qty.
Low-Fuming Bronze							
Bronze	3/32 in	18 in	1595 to 1620	Box	Bernzomatic	**3AC22**	25
Bronze Alloy	1/8 in	36 in	1595 to 1630	Box	Hobart	**6ETP3**	1
Nickel Silver Alloy	1/8 in	36 in	1630 to 1665	Box	Hobart	**6ETP6**	1
Low Fuming Bronze	1/8 in	36 in	1330 to 1550	Tube	Westward	**30AC75**	20
	1/8 in	36 in	1330 to 1550	Box	Westward	**30AC78**	33
Phos Copper							
Copper, 0% Phosphorus	1/8 in	18 in	1310 to 1500	Box	Hobart	**6ETP0**	1
Copper, BCuP-5	1/8 in	18 in	1300 to 1500	Tube	All-State	**400G83**	1
Copper, 0% Phosphorus	1/8 in	20 in	1310 to 1475	Tube	Harris	**3THE4**	7
Copper, 5% Phosphorus	1/8 in	18 in	1190 to 1500	Box	Hobart	**6ETP1**	1
Copper, 15% Phosphorus	1/8 in	18 in	1190 to 1500	Box	Hobart	**6ETP2**	1
Copper Phosphorous	1/8 in	18 in	1310 to 1460	—	Bernzomatic	**3AC23**	16
Dynaflow	1/8 in	20 in	1190 to 1465	Tube	Harris	**3THE2**	7
Nickel Silver							
Nickel/Silver	1/8 in	36 in	1720 to 1800	Tube	Westward	**30AC76**	22
	3/32 in	36 in	1720 to 1800	Tube	Westward	**30AC77**	40
Nickel Silver Alloy	1/8 in	36 in	1665 to 1680	Box	Hobart	**6ETP4**	1
	3/32 in	36 in	1665 to 1680	Box	Hobart	**6ETP5**	1
Phos Copper							
0% Silver	1/8 x 1/2	20 in	1345 to 1500	Tube	Westward	**30AC72**	28
5% Silver	1/8 x 1/2	20 in	1350 to 1550	Tube	Westward	**30AC73**	28
15 % Silver	1/8 x 0.050	20 in	1190 to 1500	Tube	Westward	**30AC74**	28
Stay-Silv-5	1/8 in	20 in	1190 to 1500	Tube	Harris	**3THF9**	7
Stay-Silv-15	1/8 in	20 in	1190 to 1480	Tube	Harris	**3THF8**	7
High Silver							
Safety-Silv-45	1/16 in	18 in	1225 to 1370	Tube	Harris	**3THE6**	5
	3/32 in	18 in	1225 to 1370	Tube	Harris	**3THE7**	3
Safety-Silv-45 Flux Coated	1/16 in	18 in	1225 to 1370	Tube	Harris	**3THE5**	3
Safety-Silv-56	1/16 in	18 in	1145 to 1205	Tube	Harris	**3THF1**	5
Safety-Silv-56 Flux Coated	1/16 in	18 in	1145 to 1205	Tube	Harris	**3THE9**	3
45 % Alloy Silver Content, BAg-5							
Safety-Silv-45	1/16 in	—	1225 to 1370	Box	Harris	**3THE8**	1
Brazing Wire Kits (1-oz. Wire, 1.75-oz. Flux)							
Safety-Silv-56	1/16 in	—	1145 to 1205	Box	Harris	**3THF2**	1

Cutting Torch
2CZN1

Combination Torch Outfit
6GJF0

Heating Tip
2CZU4

Welding Tip
2CZT2

Cutting Tip
2CZP5

Cutting Torches and Consumables

Description	Cuts Up To	Head	L	Mfr. Model	Item No.
Cutting Torches					
SC Series Heavy Duty	12 in	90°	21 in	SC229	**2CZN1**
	12 in	180°	21 in	SC220	**6GJF7**
	24 in	75°	36 in	SC935	**2CZN3**
	24 in	90°	21 in	SC929	**6GJF5**
	24 in	90°	48 in	SC949	**38N740**
	24 in	90°	72 in	SC969	**38N742**
	24 in	180°	36 in	SC930	**3LVP8**
	24 in	180°	72 in	SC960	**3LVR1**
Oxy Cutting Assemblies (Handle, Attachment, Cutting Tips & Flashback Arrestors)					
MC Series Medium Duty	6 in	90°	16"	16281	**6GJF1**
SC Series Heavy Duty	8 in	90°	18¾"	16280	**6GJF0**

For Use With	Tip Size	Capacity	Mfr. Model	Item No.
Consumables				
Cutting Tips, 1 Piece				
50 scfh cutting, 7.5 scfh preheat	3½ in	Steel Up to 3/8 in	SC12-0	**2CZP5**
11 scfh preheat, 85 scfh cutting	3½ in	Steel Up to 5/8 in	SC12-1	**2CZP6**
12 scfh preheat, 135 scfh cutting	3½ in	Steel Up to 1 ¼ in	SC12-2	**2CZP7**
14 scfh preheat, 180 scfh cutting	3½ in	Steel Up to 2 in	SC12-3	**2CZP8**
16 scfh preheat, 315 scfh cutting	3½ in	Steel Up to 4 in	SC12-4	**2CZP9**
30 scfh, 7 scfh Preheat	2¾ in	Steel Up to 3/16 in	MC12-00	**2CZR2**
40 scfh, 7 scfh Preheat	2¾ in	Steel Up to ¼ in	MC12-0	**2CZR1**
81 scfh, 9 scfh Preheat	2¾ in	Steel Up to 5/8 in	MC12-1	**2CZR3**
11 scfh Preheat, 118 scfh	2¾ in	Steel Up to 1 in	MC12-2	**2CZR4**
12 scfh Preheat, 181 scfh	2¾ in	Steel Up to 2 in	MC12-3	**2CZR5**
Welding/Brazing Tips				
AW Acetylene Standard Duty	6 in	Up to 1/32 in	AW201	**6GJG8**
	6 in	Up to 5/64 in	AW203	**6GJG9**
	6 in	Up to 1/8 in	AW205	**6GJH0**
	7 in	Up to 3/16 in	AW207	**6GJH1**
	7 in	Up to 3/8 in	AW209	**6GJH2**
	7 in	Up to ½ in	AW210	**6GJH3**
3.2 scfh	8¼ in	Up to 5/64 in	SW203	**2CZT8**
6 scfh	8½ in	Up to 1/8 in	SW205	**2CZU1**
12 scfh	8½ in	Up to 3/16 in	SW207	**2CZU2**
23 scfh	9¾ in	Up to 3/8 in	SW209	**2CZU3**
2.3 scfh	7½ in	Up to 1/32 in	MW201	**2CZT2**
3.2 scfh	7½ in	Up to 5/64 in	MW203	**2CZT3**
6 scfh	7½ in	Up to 1/8 in	MW205	**2CZT5**
12 scfh	9 in	Up to 3/16 in	MW207	**2CZT6**
Heating Tips				
32 scfh	10 in	Acetylene	AT605	**6GJG7**
175-450 scfh Natural Gas, 225-535 scfh Propane, 235-430 scfh Propylene	15 ¾ in	Rosebud, Natural Gas, Propane	ST615	**2CZU6**
96 scfh	19 in	Rosebud, Acetylene	ST605	**2CZU4**
31 scfh	10 in	, Acetylene	MT603	**2CZU5**

Brazing Nozzles
5GEH6

Torch Handle
5GEJ9

Specialty Gas Regulator
49JP44

TURBOTORCH

Portable Totes Consumables

Nozzles are swaged for proper alignment. Each tip has a built-in spiral mixer individually designed for size and flame characteristic.

Welding Handle 5GEJ9 features compact, lightweight tube-within-tube design that is good for HVAC, refrigeration, and plumbing applications.

Description	Mfr. Model	Item No.
Brazing Nozzles		
J Series, Size 00	0387-0039	**5GEH5**
J Series, Size 0	0387-0040	**5GEH6**
J Series, Size 1	0387-0041	**5GEH7**
J Series, Size 2	0387-0042	**5GEH8**
J Series, Size 3	0387-0043	**5GEH9**
Heating Nozzle		
Fits "J" Series handle	0325-0109	**5GEH4**
Torch Handle		
Turbo Torch FP,103-01, 3/8'' hose connection	0386-0311	**5GEJ9**
Specialty Gas Regulators, 1 ½ in Dial		
Acetylene, 0 to 15 psig, CGA-200 Inlet, 3/8"-24 LH Outlet	0781-4240	**49JP43**
Oxygen, 0 to 60 psig, CGA-540 Inlet, 3/8"-24 Outlet	0781-4241	**49JP44**

Cutting Torch
13H867

Torch Handle
5KX63

Cutting Tip
13H870

Cutting Torches and Consumables

Description	Cuts Up To	Head Angle	L	Mfr. Model	Item No.
Cutting Torches					
Model 62-5	12 in	90°	18 in	1003450	**13H867**
		90°	18 in	62-5E	**3WU26**
Cutting Attachments					
Pipeliner, Heavy Duty	6 in	90°	9 ½ in	73-3	**5KX55**
Steelworker, Light Duty	5 in	90°	9 ½ in	72-3	**5KX56**

Description	Tip Series	L (in.)	Mfr. Model	Item No.
Torch Handles				
Medium-Duty	1390, Brazing	8½	85	**5KX65**
2290 Heavy-Duty	Tip 23-A-90	9½	43-2	**5KX63**

Description	Mfr. Model	Item No.
Consumables		
Cutting Tips		
6290-NX, Size 0, Cuts ⅜ - ⅝" Steel	1501220	**13H868**
6290-NX, Size 1, Cuts ⅝ - 1" Steel	1501230	**13H869**
6290-NX, Size 2, Cuts 1-2" Steel	1501240	**13H870**
6290-NX, Size 3, Cuts 2-3" Steel	1501250	**13H871**
6290-NX, Size 4, Cuts 3-6" Steel	1501260	**13H872**
6290, Size 2, Cuts 4" Steel	1501390	**38K966**
Machine Cutting Tips		
6290, Size 2/0, Cuts ½" Steel	6290-2/0-VVC	**6XR21**
6290, Size 0, Cuts 1¼" Steel	6290-0 ½-VVC	**6XR23**
6290, Size 1, Cuts 2" Steel	6290-1-VVC	**6XR24**
6290, Size 1 ½, Cuts 3" Steel	6290-1 1/2VVC	**6XR25**
6290, Size 2, Cuts 4" Steel	6290-2VVC	**6XR26**
Welding Tip Mixer		
For Use With 23-A-90 Tips	D-85	**5KZ95**
Heat Tips		
For D-50-CL Tip Tube, Size ⅜"-24(M)	1800025	**38K968**
For 2393 Tip Tube, Size ½"-25(M)	1800150	**38K959**
Heating Tip Assemblies		
For 43-2 Handle, Size 1	J-63-1	**6XR30**
For 43-2 Handle, Size 2	J-63-2	**6XR31**
For 43-2 Handle, Size 3	J-63-3	**6XR32**
For 43-2 Handle, Size 4	J-63-4	**6XR33**
For 43-2 Handle, Size 5	J-43-5	**6XR27**

Flashback Arrestors, Quick Disconnects, and Check Valves

Flashback Arrestors— Built-in check valves prevent reverse flow of gases.

High Flow Regulator Flashback Arrestors— Thermal shutoff positively shuts off gas and can be used on all sizes of Harris tips.

Quick Disconnects— Feature automatic gas shutoff.

Check Valves— If reverse gas flow starts, valve closes immediately for total shutoff.

Flashback Arrestors
5KJ54

Quick Disconnect
5KZ81

Description	Connection	Brand	Mfr. Model	Item No.
Flashback Arrestors (Oxygen & Fuel)				
Pair for Torch	A ⅜-24	Uniweld	TFAA	**5KH48**
	B 9/16-18 RH/LH	Victor	0656-0001	**5KJ54**
	B 9/16-18 RH/LH	Miller Electric	H743	**3LVR5**
Pair for Torch, CutSkill FBT-2	B 9/16-18 RH/LH	Victor	0656-0006	**20UJ98**
Pair for Torch, CutSkill FBR-2	B 9/16-18 RH/LH	Victor	0656-0007	**20UJ99**
Pair for Torch, Flamebuster FBR-1	B 9/16-18 RH/LH	Victor	0656-0004	**20UJ97**
Pair for Regulator	A ⅜-24	Uniweld	RFAA	**5KH37**
	B 9/16-18 RH/LH	Harris	88-5FBR-R & L	**5KZ78**
	B 9/16-18 RH/LH	Miller Electric	H753	**3LVR4**
Flashback Arrestor Set	B 9/16-18 RH/LH	Harris	88-5 FBT R&L	**6ZFA5**
High Flow Regulator Flashback Arrestors (Each)				
Oxygen Regulator	B 9/16-18 RH	Harris	88-5FBHF-RR	**5KZ79**
Fuel Regulator	B 9/16-18 LH	Harris	88-5FBHF-RL	**5KZ82**
Quick Disconnects (Pair)				
Pair for Torch	9/16-18 R & L	Victor	0656-0000	**20UJ96**
	9/16-18 R & L	Harris	26-QCT R & L	**5KZ81**
Pair for Regulator	9/16-18 R & L	Harris	26-QCR R & L	**5KZ80**
Check Valves (Pair)				
Pair for Torch	9/16-18 R & L	Harris	88-6CVT R&L	**2WY31**
	9/16-18 R & L	Victor	0690-0011	**5KJ57**
	9/16-18 R & L	Miller Electric	H697	**3LVR6**
	⅜-24 A	Uniweld	TCVA	**5KH47**
Pair for Regulator	9/16-18 R & L	Miller Electric	H698	**3LVR7**

Cutting Torch
20UJ88

Cutting Attachment
5KJ32

Welding Nozzle
5KH92

Cutting Torches and Consumables

Description	Cuts Up To	Head Angle	L	Mfr. Model	Brand	Item No.
Cutting Torches						
Victor ST900FC Series	5 in	75 °	21 in	0381-1623	Victor	**20UJ88**
			36 in	0381-1625	Victor	**20UJ90**
Victor SST 900FC Series		90 °	17 in	0381-1620	Victor	**20UJ87**
Victor ST900FC Series			21 in	0381-1621	Victor	**5KJ34**
			36 in	0381-1624	Victor	**20UJ89**
			48 in	0381-1629	Victor	**20UJ91**
Victor ST2600FC Series	8 in	75 °	21 in	0381-1482	Victor	**20UJ82**
		90 °	21 in	0381-1480	Victor	**5KJ37**
			36 in	0381-1496	Victor	**20UJ85**
			48 in	0381-1502	Victor	**20UJ86**
		180 °	21 in	0381-1484	Victor	**20UJ83**
Victor SST 2600FC Series		90 °	17 in	0381-1486	Victor	**20UJ84**
Cutting Attachments						
fit the “J” series	3 in	90 °	8 in	0381-0162	Victor	**5KJ32**
Victor 1350 Series	6 in		8 in	0381-0418	Victor	**5KJ33**
		180 °	8 in	0381-0421	Victor	**25DV30**
Victor 2460 Series	8 in	75 °	10 in	0381-1930	Victor	**54TA01**
		90 °	10 in	0381-1928	Victor	**54RZ99**
		180 °	10 in	0381-1932	Victor	**54TA02**

Description	For Use With	L (in.)	Mfr. Model	Brand	Item No.
Torch Handles					
Victor 1 Series					
310C	Victor 2460 Series, MFA, MFN, Type 55, W Series	11	0382-0015	Victor	**25DV27**
WH 315FC+		9	0382-0093	Victor	**54TA03**
J-Series		5	0382-0006	Victor	**49NW97**
Victor 3 Series					
100FC	Victor 1350 Series, MFA-1, MFN-1, W-1	8½	0382-0032	Victor	**5KJ42**
J-28	Victor 1260 Series, MFJ Series, W-J Series	6	0382-0127	Victor	**5KJ44**

Description	Mfr. Model	Brand	Item No.
Consumables			
Cutting Tips			
1 Series, Size 1-101-0, Cuts ⅜" Steel	6700-2410	Firepower	**20UK23**
1 Series, Size 1-101-1, Cuts ¾" Steel	6700-2411	Firepower	**20UK24**
1 Series, Size 1-101-2, Cuts 1" Steel	6700-2412	Firepower	**20UK25**
1 Series, Size 1-101-3, Cuts 2" Steel	6700-2413	Firepower	**20UK26**
1 Series, Size 1-101-4, Cuts 3" Steel	6700-2414	Firepower	**20UK27**
1 Series, Size 1-101-5, Cuts 4" Steel	6700-2415	Firepower	**20UK28**
1 Series, Size 000, Cuts ⅛" Steel	0330-0003	Victor	**25DV33**
1 Series, Size 0, Cuts ⅜" Steel	0330-0109	Victor	**25DV39**
1 Series, Size 1, Cuts ¾" Steel	0330-0199	Victor	**25DV43**
1 Series, Size 1-GPN, Cuts ¾" Steel	0333-0303	Victor	**20UJ78**
1 Series, Size 2, Cuts 1" Steel	0330-0113	Victor	**25DV40**
1 Series, Size 2, Cuts 1½" Steel	0333-0304	Victor	**25DV50**
1 Series, Size 5, Cuts 4" Steel	0330-0008	Victor	**25DV35**
1 Series, Size 1-101-00, Cuts ¼" Steel	0330-0004	Victor	**5KJ11**
1 Series, Size 1-101-0, Cuts ½" Steel	0330-0012	Victor	**5KJ14**
1 Series, Size 1-101-1, Cuts ¾" Steel	0330-0005	Victor	**5KJ12**
1 Series, Size 1-101-2, Cuts 1" Steel	0330-0006	Victor	**5KJ13**
1 Series, Size 1-101-3, Cuts 2" Steel	0330-0002	Victor	**5KJ09**
1 Series, Size 1-101-4, Cuts 3" Steel	0330-0007	Victor	**25DV34**
1 Series, Size 1-118-4, Cuts 3" Steel	0330-0114	Victor	**20UJ76**
3 Series, Size 3-101-00, Cuts ¼" Steel	0331-0009	Victor	**5KJ16**
3 Series, Size 3-101-0, Cuts ⅜" Steel	0331-0013	Victor	**5KJ17**
3 Series, Size 3-101-1, Cuts ¾" Steel	0331-0014	Victor	**5KJ18**
3 Series, Size 3-101-2, Cuts 1" Steel	0331-0015	Victor	**5KJ19**
3 Series, Size 3-101-3, Cuts 2" Steel	0331-0016	Victor	**5KJ20**
Welding Nozzles			
W Series, Size 00, Welds 3/64 in	0323-0111	Victor	**5KH79**
W Series, Size 0, Welds 5/64 in	0323-0112	Victor	**5KH80**
W Series, Size 1, Welds 3/32 in	0323-0120	Victor	**5KH81**
W Series, Size 2, Welds ⅛ in	0323-0121	Victor	**5KH82**
W Series, Size 3, Welds 3/16 in	0323-0122	Victor	**5KH83**
W Series, Size 4, Welds ¼ in	0323-0130	Victor	**5KH84**
W Series, Size 5, Welds ½ in	0323-0131	Victor	**5KH85**
W-1 Series, Size 00, Welds 3/64 in	0324-0069	Victor	**5KH91**
W-1 Series, Size 0, Welds 5/64 in	0324-0070	Victor	**5KH92**
W-1 Series, Size 1, Welds 3/32 in	0324-0071	Victor	**5KH93**
W-1 Series, Size 2, Welds ⅛ in	0324-0072	Victor	**5KH94**
W-1 Series, Size 3, Welds 3/16 in	0324-0073	Victor	**5KH95**
W-1 Series, Size 4, Welds ¼ in	0324-0074	Victor	**5KH96**
W-J Series, Size 1, Welds 3/32 in	0325-0084	Victor	**5KJ03**
W-J Series, Size 2, Welds ⅛ in	0325-0085	Victor	**5KJ04**
W-J Series, Size 3, Welds 3/16 in	0325-0086	Victor	**5KJ05**
W-J Series, Size 4, Welds ¼ in	0387-0044	TurboTorch	**5KJ06**
Welding Tips			
TE Series, Size 00	0311-0472	Victor	**25DV64**
TE Series, Size 0	0311-0473	Victor	**25DV65**
Heating Nozzles			
MFA-1 Series, Size 8	0324-0111	Victor	**25DW21**
MFA Series, Size 10	0323-0260	Victor	**25DW10**
MFA Series, Size 12	0323-0261	Victor	**25DW11**
MFA Series, Size 8	0387-0062	Victor	**49NX08**
55 Series, Size 20	0323-0326	Victor	**25DW19**
Heating Nozzles, Rosebud			
4-MFA Series	0323-0250	Victor	**5KH87**
4-MFA-J Series	0325-0105	Victor	**5KJ08**
6-MFA-1 Series	0324-0110	Victor	**5KH98**
Universal Nozzle			
UN-J Series, Size Multiple	0325-0101	Victor	**49NW91**

Hand Crank
3VE31

Hand Crank
3VE30

Spring Drive
4NB19

®REELCRAFT

Arc Welding Cable Reels

Corrosion-resistant powder-coated finish. Hand crank reels include lead wire. Spring drive reels have vibrationproof, self-locking latch and permanently lubricated bearings.

Description	Max. Amps	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Hand Crank, Truck Mount						
Single Reel	300 A	18 in	19 in	15 ¾ in	T-1460-0	**2CAJ6**
Double Reel	300 A	18 in	16 ¼ in	38 in	T-2464-0	**3VE31**
	300 A	18 in	29 in	19 in	T-2462-0	**3VE30**
Spring Return, Bench, Ceiling, Floor, Truck, Wall Mount						
Single Reel	400 A	19 in	14 ¾ in	20 ¼ in	WC7000	**4NB19**
	400 A	24 in	16 in	25 ⅜ in	WC80001	**4NB20**

RADNOR.
Continental

Twin-Line Welding Hose Coupled Assemblies

Welding hose assemblies come with fittings installed on both ends of the hoses and have two hoses: a green hose for carrying oxygen to welding equipment, and a red hose for carrying acetylene to welding equipment. The hoses have oil-resistant covers. The hoses' cover resists flames and oils.

Hose I.D.	25 ft Fitting Type	25 ft Brand	25 ft Item No.	50 ft Fitting Type	50 ft Brand	50 ft Item No.	100 ft Fitting Type	100 ft Brand	100 ft Item No.
Hose Grade R									
3/16 in	UNF x UNF	Continental	**2Z704**	UNF x UNF	Continental	**6ZC11**	BB x BB	Radnor	**31UT33**
¼ in	UNF x UNF	Continental	**2Z705**	UNF x UNF	Continental	**6ZC12**	BB x BB	Radnor	**31UT06**
5/16 in	BB x BB	Radnor	**31UT52**	BB x BB	Radnor	**31UT54**	—	—	—
⅜ in	BB x BB	Radnor	**31UT44**	BB x BB	Radnor	**31UT46**	BB x BB	Radnor	**31UT42**
Hose Grade T									
3/16 in	BB x BB	Radnor	**31UT28**	BB x BB	Radnor	**31UT30**	BB x BB	Radnor	**31UT21**
¼ in	BB x BB	Radnor	**31UT13**	UNF x UNF	Continental	**4LG87**	UNF x UNF	Continental	**4LG88**
⅜ in	BB x BB	Radnor	**31UT45**	BB x BB	Radnor	**31UT47**	BB x BB	Radnor	**31UT43**

33N139

41GR96

COXREELS ®REELCRAFT

Welding Hand-Crank Reels

- Max. operating pressure: 200 psi

Reinforced steel construction includes powder-coated finish for corrosion resistance. These low-pressure reels mount on the floor, wall, bench, or on trucks. Reels use Grade R (oxygen and acetylene gas) or Grade T (oxygen and fuels) hoses. They are used with oxygen and acetylene welding hoses in applications where space, weight, and flexibility are important.

Hose Cap.	Swivel Material	Reel Color	Overall Dim.	Brand	Item No.
100 ft (¼ in I.D.)	Brass	Blue	12 in L x 14 ½ in W x 13 in H	Coxreels	**33N139**
150 ft (¼ in I.D.)	Aluminum	Black	18 in L x 16 ¼ in W x 19 in H	Reelcraft	**4NB18**
250 ft (¼ in I.D.)	Aluminum	Red	28 ⅝ in L x 21 ⅝ in W x 20 ¼ in H	Reelcraft	**41GR96**

®REELCRAFT COXREELS

Welding Spring-Return Hose Reels

38EE87

16X587

- Max. operating pressure: 200 psi

Reels have an independent dual-swivel design that allows a positive separation of gases with double sealed O-rings to prevent leaks. The dual-swivels are made from aluminum that's hard-coated for wear resistance, and the swivel body and inlet are permanently identified with machined grooves on the gas side to assure proper installation. Reinforced steel construction includes powder-coated finish for corrosion resistance. These low-pressure reels mount on the floor, wall, ceiling, bench, or on trucks, and include an adjustable guide arm.

Hose Cap.	Hose End Configuration	Includes Hose	Swivel Material	Reel Color	Brand	Item No.
Standard Spring-Return Hose Reels						
Hose Grade R						
25 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**38EE86**
50 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**38EE87**
	9/16 in F UNF	Yes	Brass	Blue	Coxreels	**271F18**
60 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**38EE88**
Hose Grade T						
50 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**5PR84**
60 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**38EE89**
75 ft (⅜ in ID)	—	No	Aluminum	Red	Reelcraft	**38L565**
	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**4NB17**
100 ft (¼ in ID)	—	No	Aluminum	Red	Reelcraft	**5PG12**
	¼ in MNPT x 9/16 in F UNF, 9/16 in F UNF x 9/16 in F UNF	Yes	—	Blue	Coxreels	**16X587**
	9/16 in F UNF	Yes	Aluminum	Red	Reelcraft	**4NB16**
Controlled-Retraction Spring-Return Hose Reels						
Hose Grade R						
50 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Black, Red	Reelcraft	**56MW57**
Hose Grade T						
50 ft (¼ in ID)	9/16 in F UNF	Yes	Aluminum	Black, Red	Reelcraft	**56MW58**

TURBOTORCH
BERNZOMATIC

Torch Kits and Accessories

5GEG0

Kits feature quick-disconnect handles and tips. O-rings are color-coded for quick gas identification. Tips feature swirl combustion for higher target temperatures.

5UX29

Description	Series	Mfr. Model	Item No.
TurboTorch			
Torch Tips			
⅛" Tip, ½" Soft Solder, ¼" Silver Braze	A-2	0386-0100	**4PU28**
3/16" Tip, 1" Soft Solder, ½" Silver Braze	A-3	0386-0101	**5UX12**
¼" Tip, 1½" Soft Solder, ¾" Silver Braze	A-5	0386-0102	**5UX13**
5/16" Tip, 2" Soft Solder, 1" Silver Braze	A-8	0386-0103	**5UX14**
7/16" Tip, 3" Soft Solder, 1⅝" Silver Braze	A-11	0386-0104	**5UX15**
½" Tip, 3½" Soft Solder, 2" Silver Braze	A-14	0386-0105	**4PU32**
¾" Tip, 6" Soft Solder, 4" Silver Braze	A-32	0386-0106	**5GEJ2**
Self-Lighting Torch Tips			
¼" Tip, 1" Soft Solder, ½" Silver Solder	PL-3A	0386-0874	**5GEJ1**
5/16" Tip, 2" Soft Solder, 1" Silver Solder	PL-8A	0386-0819	**4PU18**
⅜" Tip, 4" Soft Solder, 2" Silver Solder	PL-12A	0386-0820	**5GEJ6**

Description	Includes	Mfr Model	Brand	Item No.
Acetylene Torch Kits				
For B Tanks				
Brazing Copper Connections	AH-12 Hose, and Gauge Guard, AR-B Regulator, Instruction Manual, S-4 Tip, WA-400 Handle	0386-0090	TurboTorch	**4PU19**
1 ½ in Soft Solder, ¾ in Silver Braze	A-5 tip, AH-12 hose, G4 handle, tank key	0386-0338	TurboTorch	**5UX20**
3 in Soft Solder, 1 ⅝ in Silver Braze	A-11 tip, A-3 tip, AH-12 hose, G4 handle, tank key	0386-0335	TurboTorch	**5UX19**
3½'' Soft Solder, 2'' Silver Braze	A-14 tip, A-5 tip, AH-12 hose, G4 handle, tank key	0386-0336	TurboTorch	**5GEG3**
For B Tanks, Self-Lighting				
Brazing	Ah-12 Hose, AR-B CGA-520 Regulator, G4 Handle, Pl-8A Tip	0386-0835	TurboTorch	**5GEG1**
2 in Soft Solder, 1 in Silver Braze	A-5 tip, AH-12 hose, G4 handle, tank key	0386-0833	TurboTorch	**5UX29**
For MC Tanks				
1½'' Soft Solder, ¾'' Silver Braze	A-5 tip, AH-12 hose, G4 handle, tank key	0386-0384	TurboTorch	**5GEG2**
2 in Soft Solder, 1 in Silver Braze	A-5 tip, AH-12 hose, G4 handle, tank key	0386-0339	TurboTorch	**5UX21**
For MC Tanks, Self-Lighting				
Brazing	Ah-12 Hose, AR-MC CGA-200 Regulator, G4 Handle, Pl-8A Tip	0386-0834	TurboTorch	**5GEG0**
MAP-Pro Torch Kits				
2 ½ in Soft Solder, 1 ¼ in Silver Braze	handle, hose, Regulator, T-4 tip	0386-0006	TurboTorch	**5UX08**
4 in Soft Solder, 2 in Silver Braze	handle, hose, Regulator, T-3 and T-5 tips	0386-0007	TurboTorch	**5UX09**
¼ to 4 in Soft Solder	5 ft Hose Torch, Fuel Holster	384401	Bernzomatic	**5JPK0**

Torches & Kits

4NE96

3DPX3

33V970

36RE27

5KH31

5UX31

5KH39

Description	Series	Flame Type	Fuel	Ignitor	Includes	Item No.
Bernzomatic						
Torch	TS99T	Swirl	MAP-Pro	Instant On/Off	—	**4NE94**
	LT60	Hot-Air	MAP-Pro	Self Igniting	—	**4NE84**
	TS4000T	Swirl	MAP-Pro	Instant On/Off	—	**4NE96**
	TS8000	Swirl	MAP-Pro	Instant On/Off	—	**3DPX3**
Torch Kit	UL100	Pencil	Propane	Manual	14.1 oz Propane Gas Cylinder	**33V973**
	KC3500	Adjustable	Propane	Manual	14.1 oz Propane Fuel Cylinder	**52RM88**
	TS4000KC	Swirl	MAP-Pro	Instant On/Off	14.1 oz MAX-Pro Gas Cylinder	**33V969**
	TS8000BZKC	Swirl	MAP-Pro	Instant On/Off	14.1 oz MAX-Pro Gas Cylinder	**33V972**
	BZ8250KC	Swirl	MAP-Pro	Instant On/Off	14.1 oz MAP-Pro Fuel Cylinder, BZ8250HT Hose Torch, Fuel Holster	**33V970**
TurboTorch						
Torch	SK-7000	Swirl	MAP-Pro	Self Igniting	—	**36RE27**
	TL-44-NL	Swirl	MAP-Pro	Self Igniting	—	**36RE26**
	STK-9	Swirl	MAP-Pro	Manual	Pressure Regulator, ST3 Tip	**4PU14**
	TX-503	Swirl	MAP-Pro	Self Igniting	—	**4PU16**
	STK-99	Swirl	MAP-Pro	Self Igniting	Easy Clean Orifice Screw, STK-R Regulator w/360° Self-Light Swivel Tip	**5UX31**
	TXC-504	Swirl	MAP-Pro	Self Igniting	Durable Plastic Case	**36RE28**
	TX-504	Swirl	MAP-Pro	Self Igniting	—	**4PE99**
Torch Kit	TX-500	Swirl	MAP-Pro	Self Igniting	TX504 & T503 Tip	**4PU15**
	PL-4T DLX	Swirl	MAP-Pro	Self Igniting	Handle, Hose, PL-4T Tip, Regulator	**4PU17**
	PL-DLXPT	Swirl	MAP-Pro	Self Igniting	Heat Shield & Solder., Hose, Hose Clamp, Regulator, Tool Bag, Two Self Lighting Tips	**5GEH1**
	LP-1	Swirl	MAP-Pro	Manual	Handle, Hose, Regulator, T-4 Tip, T-6 Tips	**4PU11**
Uniweld						
Torch	PCV25	Pencil	MAP-Pro	Manual	—	**5KH36**
	UT5 LP	Swirl	MAP-Pro	Manual	Regulator w/360° Swivel Elbow & LP Twister Tip	**5KH38**
	UT6 LP	Swirl	Propane	Self Igniting	Regulator w/360° Swivel Elbow & LP Twister Silver Bullet Tip	**5KH39**
Torch Kit	UT5 LP	Swirl	MAP-Pro	Manual	16 oz MAX-Pro, LP Twister Tip & Self-Fluxing Alloy, Regulator w/360° Swivel Elbow	**5KH31**

Fuel Cylinders

2YMW5 has left-handed threads. 2YMW6 and 5UX34 have CGA 600 valve with right-handed threads.

MAP-Pro
2YMW6

Flame Type	Fuel Capacity	Item No.
Oxygen	1.4 oz	**2YMW5**
MAP-Pro	14 oz	**2YMW6**
Propane	14.1 oz	**5UX34**

HVAC, Plumbing, and Maintenance Air/Gas Kits

Air/Acetylene Soft Flame Kit—5KH21 includes RB acetylene regulator, S23 soft flame tip, TH3 screw-connect handle and H12 12½-ft. acetylene gas hose.

5KH29 includes S21, S22, S24, S25, S26, and S27 tips that fit 5KH21 (Uniweld K37) and most screw-connect air/gas torch handles.

Air/Acetylene Twister® Kits—For brazing and soldering copper tubing in maintenance and HVAC applications. Kit includes RB acetylene regulator, TH6 quick-connect handle, A-3 and A-11 Twister tips, H12 12½-ft. acetylene hose, and 502 stand.

5KH22 tips fit most quick-connect air/gas torch handles. Includes A-5 and A-8 sizes to extend 5KH08 Air/Acetylene Twister Kit's brazing and soldering capabilities.

Air/Acetylene Soft Flame Kit 5KH21

Air/Acetylene Twister® Kit 5KH08

Quick-Connect Tip Set 5KH22

Tip	Copper Tubing Capacity Soft Solder	Silver Solder
Air/Acetylene Twister Tips		
A-3	¼" to 1"	⅛" to ¼"
A-5	¾" to 1½"	¼" to ¾"
A-8	1" to 2"	½" to 1"
A-11	1½" to 3"	⅞" to 1⅝"
Air/Acetylene Soft Flame Tips		
S21	1⁄16" to ⅛"	Up to 1⁄16"
S22	⅛" to ⅜"	Up to ⅛"
S23	⅜" to ½"	Up to ⅜"
S24	½" to 1"	Up to ½"
S25	¾" to 1½"	½" to ¾"
S26	1" to 4"	¾" to 1½"
S27	⅛" to ⅜"	Up to ⅛"

Description	Mfr. Model	Item No.
Air/Acetylene Soft Flame Kit		
Air/Acetylene Kit	K37	**5KH21**
Screw Connect Soft Flame Tip Set	KSF	**5KH29**
Air/Acetylene Twister® Kits		
Air/Acetylene Kit	89601	**5KH07**
Air/Acetylene Kit, w/B Tank and Alloy Pack	89602U	**5KH08**
Quick Connect Tip Set	KA58	**5KH22**
Carrying Stand For B Tank	502	**2CZV9**

Squeeze Bottle
20LA83

Aerosol Can
402M55

Jug
1HBK4

Pail
5CHT2

Jug
49CR97

Pail
21A545

Spray Bottle
4GUM8

Aerosol Can
45C001

Squeeze Bottle
35RP17

General Purpose Lubricants

Reduce friction and wear, and prevent machinery from overheating. They leave a slippery coating on two surfaces to keep moving parts like wheels, hinges, and gears moving smoothly and extend the life of equipment. They also provide some protection against water damage, contaminants, and corrosives.

Brand	Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Item No.
3-In-One	—	4 oz Squeeze Bottle	Mineral Oil	Silicone	Not Rated	-100° to 500°F	Brown	Yes	20LA83
	—	4 oz Squeeze Bottle	Mineral Oil	PTFE	Not Rated	-50° to 500°F	Amber	Yes	20LA86
Blaster	—	6 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	Colorless	No	48GG07
	—	16 oz Aerosol Can	Silicone	No Additives	Not Rated	0° to 120°F	Colorless	No	16W546
	—	16 oz Aerosol Can	Petroleum Distillates	No Additives	H1 Food Grade	-12° to 120°F	Colorless	—	402M55
	—	1 gal Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	White	No	4LRG3
	—	1 gal Can	Petroleum Distillates	PTFE	Not Rated	0° to 120°F	Colorless	No	48GG09
CRC	—	12 oz Aerosol Can	Silicone	No Additives	Not Rated	-40° to 400°F	Colorless	No	19MX42
	3-36	6 oz Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	4JB28
	3-36	16 oz Spray Bottle	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	4JB29
	3-36	16 oz Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	2F141
	3-36	1 gal Jug	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	1HBK4
	3-36	5 gal Pail	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	5VE52
	3-36	55 gal Drum	Petroleum Distillates	No Additives	H2 No Food Contact	-50° to 250°F	Blue/Green	No	3APL3
	Power Lube®	12 oz Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-50 to 250°F	Amber	No	12W319
	Power Lube®	16 oz Aerosol Can	Petroleum Distillates	PTFE	H2 No Food Contact	-40° to 300°F	Amber	No	3EEE3
	Syntha-Tech™	16 oz Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-40° to 450°F	White	No	12W314
Jet-Lube	—	12 oz Aerosol Can	Petroleum Distillates	Silicone	H1 Food Grade	-40° to 350°F	Colorless	Yes	2YKK3
	769	12 oz Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-25° to 300°F	Yellow	Yes	5CHT9 *
	CC-Lube™	5 gal Pail	Semi-Synthetic Oil	PTFE	H1 Food Grade	-40° to 400°F	Colorless	No	5CHR0 *
	CC-Lube™	15 gal Drum	Semi-Synthetic Oil	PTFE	H1 Food Grade	0° to 400°F	Colorless	No	5CHR1 *
	EMS™	1 gal Pail	Silicone	No Additives	H1 Food Grade	25° to 500°F	White	No	5CHT2 *
	EMS™	5 gal Jug	Silicone	No Additives	H1 Food Grade	25° to 500°F	White	No	5CHT3 *
Liquid Wrench	—	18 oz Aerosol Can	Petroleum Distillates	No Additives	Not Rated	-20° to 115°F	Yellow	No	54YT54
	—	18 oz Aerosol Can	Mineral Oil	Silicone	Not Rated	-20° to 115°F	Yellow	No	54YT60
LPS	—	16 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	40° to 500°F	White	No	4KK76
	—	16 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 500°F	Colorless	No	19C656
	—	5 gal Pail	Silicone	No Additives	H1 Food Grade	40° to 500°F	White	No	49CR99
	LPS 2	16 oz Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	6Y744
	LPS 2	20 oz Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	2JFD9
	LPS 2	1 gal Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	36FL97
	LPS 2	5 gal Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	36FL94
	LPS 2	55 gal Drum	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Brown	No	4UAD6
	Magnum	16 oz Aerosol Can	Petroleum Distillates	PTFE	H2 No Food Contact	-50° to 500°F	Brown	No	4KK75
	TKX	16 oz Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	4KK77
	TKX	20 oz Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	2JFD5
	TKX	1 gal Jug	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	49CR97
	TKX	5 gal Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 500°F	Green	No	49CR98
	TKX	55 gal Drum	Mineral Oil	No Additives	H2 No Food Contact	-55° to 300°F	Green	No	20Y621
Petrochem	GEARSYN FGG-150	5 gal Pail	Synthetic Oil	No Additives	H1 Food Grade	-13° to 295°F	Colorless	Yes	45VG11
Renewable Lubricants	Bio-Food Grade	1 gal Jug	Vegetable Oil	No Additives	H1 Food Grade	32° to 622°F	Yellow	Yes	21A544 *
	Bio-Food Grade	5 gal Pail	Vegetable Oil	No Additives	H1 Food Grade	32° to 622°F	Yellow	Yes	21A545 *
	Bio-Penetrating Lubricant	16 oz Aerosol Can	Petroleum Distillates	No Additives	H1 Food Grade	0° to 280°F	Colorless	Yes	2VXN3 *
	Bio-Penetrating Lubricant	16 oz Aerosol Can	Vegetable Oil	No Additives	Not Rated	-20° to 295°F	Yellow	Yes	2NMV6
	Bio-Penetrating Lubricant	1 gal Jug	Vegetable Oil	No Additives	Not Rated	-20° to 295°F	Yellow	Yes	2NMV5 *
Sprayon	LU206	14 oz Spray Bottle	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	4GUR2
	LU206	16 oz Aerosol Can	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	2X988
	LU206	5 gal Pail	Silicone	No Additives	Not Rated	-50° to 550°F	Colorless	No	30WK47
	LU210	14 oz Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	4GUM8
	LU210	16 oz Aerosol Can	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	6KHE3
	LU210	5 gal Pail	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	30WK31
	LU210	55 gal Drum	Silicone	No Additives	H2 No Food Contact	-40° to 450°F	Colorless	No	30WK32
	LU212	20 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	12R251
	LU213	20 oz Aerosol Can	Vegetable Oil	PTFE	H1 Food Grade	12° to 635°F	Amber	No	12R254
	LU214	20 oz Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-78° to 478°F	Colorless	No	24A829
	LU711	14 oz Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	4GUR1
	LU711	16 oz Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	2X725
	LU711	1 gal Can	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	30WK37
	LU711	5 gal Pail	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	30WK38
	LU711	55 gal Drum	Mineral Oil	No Additives	H2 No Food Contact	-20° to 500°F	Amber	No	30WK39
	LU727	16 oz Aerosol Can	Mineral Oil	PTFE	Not Rated	-40° to 450°F	Amber	No	5PE63
	LU728	16 oz Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-40° to 475°F	Colorless	No	1MEU2 *
	LU905	16 oz Aerosol Can	Silicone	No Additives	Not Rated	-40° to 450°F	Colorless	Yes	6KDX9
	LU905	16 oz Aerosol Can	Silicone	No Additives	H2 No Food Contact	-58° to 575°F	Colorless	Yes	6KDY0
Sprayway	Black Label	20 oz Aerosol Can	Petroleum Distillates	Molybdenum, PTFE	Not Rated	-20° to 500°F	White	No	45C001
	Black Label	20 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-5° to 450°F	Colorless	No	45C004
	L1	15 oz Aerosol Can	Petroleum Distillates	No Additives	Not Rated	up to 400°F	Colorless	No	45A999
Super Lube	—	4 oz Squeeze Bottle	Silicone	No Additives	H1 Food Grade	-58° to 392°F	Colorless	No	436P96 *
	—	11 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 392°F	Colorless	No	44N745
	—	11 oz Aerosol Can	Synthetic Oil	PTFE	H1 Food Grade	-45° to 450°F	Colorless	No	44N742
	—	32 oz Spray Bottle	Synthetic Oil	PTFE	H1 Food Grade	-45° to 450°F	Colorless	No	44N740 *
Teflon	TMU	4 oz Squeeze Bottle	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	35RP17
	TMU	16 oz Aerosol Can	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	35RP18
	TMU	1.5 lb Jug	Synthetic Oil	PTFE	H2 No Food Contact	-30° to 300°F	Colorless	No	35RP19
	TSL	4 oz Squeeze Bottle	Silicone	No Additives	H2 No Food Contact	-20° to 250°F	Colorless	No	35RP22
	TSL	16 oz Aerosol Can	Silicone	No Additives	H2 No Food Contact	-20° to 250°F	Colorless	No	35RP23
	TSL	1.5 lb Jug	Silicone	No Additives	H2 No Food Contact	-40° to 400°F	Colorless	No	35RP24
	TSL	5 gal Pail	Silicone	No Additives	H2 No Food Contact	-40° to 400°F	Colorless	Yes	35RP26
Tri-Flow	—	0.25 oz Pen	Mineral Oil	PTFE	—	-60° to 475°F	Brown	No	2PB97
	—	2 oz Dropper Bottle	Petroleum Distillates	PTFE	—	-60° to 475°F	Brown	No	3JDL7
	—	6 oz Aerosol Can	Petroleum Distillates	PTFE	—	-60° to 475°F	Brown	No	3JDL5
	—	8 oz Aerosol Can	Mineral Oil	PTFE	—	-60° to 475°F	Brown	No	3JDL3
	—	12 oz Aerosol Can	Mineral Oil	PTFE	—	-60° to 475°F	Brown	No	3KB67
	—	18 oz Spray Bottle	Petroleum Distillates	PTFE	—	-60° to 475°F	Brown	No	4TA89
	—	1 gal Jug	Mineral Oil	PTFE	—	-60° to 475°F	Brown	No	2PB96

**Non-Flammable*

CONTINUED

CONTINUED

General Purpose Lubricants

Brand	Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Item No.
WD-40	—	3 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY59**
	—	8 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY60**
	—	11 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY61**
	—	12 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY62**
	—	21 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY63**
	—	20 oz Spray Bottle	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY65**
	—	23 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY64**
	—	1 gal Can	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY66**
	—	5 gal Pail	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY67**
	—	55 gal Drum	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**20JY68**
	EZ Reach, Flexible Straw	20 oz Aerosol Can	Petroleum Distillates	No Additives	Not Rated	-60° to 300°F	Amber	Yes	**40LP99**
WD-40 Specialist	—	15 oz Aerosol Can	Mineral Oil	No Additives	Not Rated	-100° to 500°F	Amber	Yes	**45WD32**
Zep	—	11 oz Aerosol Can	Mineral Oil	PTFE	Not Rated	-20° to 200°F	White	No	**449V92**
	—	15 oz Aerosol Can	Mineral Oil	No Additives	H1 Food Grade	-5° to 500°F	Colorless	No	**456L10**
	Lubrisil NC	10 oz Aerosol Can	Petroleum Distillates	Silicone	H1 Food Grade	-20° to 600°F	Colorless	No	**456L07**
	ML	16 oz Aerosol Can	Petroleum Distillates	Molybdenum	Not Rated	-25° to 550°F	Black	No	**449V65**
	Par NC	12 oz Aerosol Can	Petroleum Distillates	Silicone	Not Rated	-20° to 600°F	Colorless	No	**456L08**
	Selig Kwik Release	55 gal Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 120°F	Colorless	No	**456L11**
	Twister Ultra	15 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 250°F	Brown	No	**449V87**
	X-571	55 gal Drum	Water	No Additives	Not Rated	up to 200°F	Amber	No	**456L19** *
	Zep 2000	13 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	0° to 600°F	Amber	No	**43NR69**
	Zep 2000	13 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-100° to 600°F	Amber	No	**456K83**
	Zep 45	14 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 250°F	Amber	No	**449V37**
	Zep 45	17 oz Aerosol Can	Petroleum Distillates	PTFE	Not Rated	-55° to 475°F	Brown	No	**449V06**
	Zep 45 Dual Force	14 oz Aerosol Can	Petroleum Distillates	No Additives	Not Rated	0° to 250°F	Amber	No	**43NR68**
	Zep 45 Dual Force	1 gal Jug	Petroleum Distillates	No Additives	Not Rated	-55° to 250°F	Amber	No	**449V07** *
	Zep Slide	1 gal Jug	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	**456L15**
	Zep Slide	20 gal Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	**456L14**
	Zep Slide	55 gal Drum	Petroleum Distillates	Silicone	Not Rated	-40° to 450°F	Colorless	No	**456L16**
	Zepreserve NC	15 oz Aerosol Can	Petroleum Distillates	Silicone	Not Rated	-25° to 250°F	Amber	No	**449W06**
	Zepreserve	18 oz Aerosol Can	Mineral Oil	Silicone	Not Rated	-25° to 250°F	Amber	No	**449W05**

***Non-Flammable**

Spray Bottle 20JY65

Aerosol Can 45WD32

Aerosol Can 43NR68

Chain & Wire Rope Lubricants

Formulated to penetrate wire rope and the pins and bushings within chain. They prevent damage from friction as the chain or rope engages with equipment.

Aerosol Can 21C339

Pail 2HTJ4

Drum 6HXG0

Aerosol Can 451K61

Series	Container Size	Lubricant Base	Primary Additive	Chain and Wire Rope Uses	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
CRC										
—	16 oz Aerosol Can	Mineral Oil	No Additives	Chain	H1 Food Grade	8° to 325°F	White	Yes	Flammable	**4JB34**
	16 oz Aerosol Can	Mineral Oil	Molybdenum	Wire Rope	H2 No Food Contact	25° to 350°F	Amber	No	Flammable	**2F139**
	16 oz Aerosol Can	Mineral Oil	No Additives	Chain	H2 No Food Contact	0° to 350°F	Blue	No	Flammable	**21C339**
Jet-Lube										
WRL™	12 oz Aerosol Can	Petroleum Distillates	No Additives	Chain, Wire Rope	Not Rated	-20° to 320°F	Amber	Yes	Non-Flammable	**10D833**
Liquid Wrench										
—	11 oz Aerosol Can	Silicone	PTFE	Chain	Not Rated	20° to 110°F	Yellow	No	Flammable	**54YT59**
Loctite										
LB	12 oz Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear	Not Rated	-20° to 250°F	Yellow	No	Flammable	**40TR07**
LPS										
ChainMate	16 oz Aerosol Can	Mineral Oil	Molybdenum	Chain	Not Rated	32° to 300°F	Black	No	Flammable	**3HY54**
LPS Food Grade Chain Lubricant w/Detex	16 oz Aerosol Can	Mineral Oil	Molybdenum	Chain	H1 Food Grade	32° to 325°F	Colorless	No	Flammable	**19C658**
Petrochem										
—	1 gal Pail	Synthetic Oil	No Additives	Chain	H1 Food Grade	-67° to 510°F	Colorless	Yes	Non-Flammable	**2HTJ2**
	5 gal Pail	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 670°F	Amber	No	Non-Flammable	**2HTJ4**
	5 gal Pail	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 655°F	Yellow	No	Non-Flammable	**2HTJ5**
	55 gal Drum	Synthetic Oil	No Additives	Oven Chain	H1 Food Grade	-25° to 655°F	Yellow	No	Non-Flammable	**6HXG0**
Sprayon										
LU 202	11 oz Aerosol Can	Mineral Oil	Molybdenum	Chain	H2 No Food Contact	-20° to 300°F	Amber	No	Flammable	**5PE62**
LU 205	15 oz Aerosol Can	Vegetable Oil	PTFE	Chain	H1 Food Grade	12° to 450°F	Amber	No	Flammable	**12R253**
LU 201	16 oz Aerosol Can	Mineral Oil	Molybdenum	Open Gear, Wire Rope	H2 No Food Contact	0° to 450°F	Black	No	Flammable	**4X595**
Sprayway										
Black Label	20 oz Aerosol Can	Petroleum Distillates	Molybdenum	Chain	Not Rated	0° to 543°F	Black	No	Flammable	**45C003**
WD-40 Specialist										
—	10 oz Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear, Wire Rope	Not Rated	-100° to 500°F	Colorless	Yes	Flammable	**451K61**
Zep										
—	12 oz Aerosol Can	Mineral Oil	Molybdenum	Chain	Not Rated	-20° to 400°F	Amber	No	Flammable	**449V81**

Chute Lubricants

- Flammable
- Not odorless

Expedite movement of boxes in a packaging and shipping facility.

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Item No.
Chute Lube™	16 oz Spray Bottle	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	**4YPJ2**
	20 oz Aerosol Can	Petroleum Distillates	Silicone	H2 No Food Contact	-15° to 400°F	Yellow	**1HBK9**
	5 gal Pail	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	**1YNX1**
	55 gal Drum	Petroleum Distillates	Silicone	H2 No Food Contact	-40° to 400°F	Yellow	**19MW90**
Parcel Glide®	16 oz Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	**3DUF8**

Aerosol Can 1HBK9

Gardner Bender Jug 15V970

Ideal Pail 10F525

Super Lube Squeeze Bottle 45NA76

Cable & Wire Pulling Lubricants

- Nonflammable
- Nonconductive
- Nonstaining
- Not NSF rated
- Not odorless

These lubricants are applied to wire or cable so they can be pulled smoothly through long conduit runs or runs with many bends. They reduce friction and pulling tension, so they save time and minimize damage to wire insulation and cable jackets, which prevents performance issues. They're safe for use on most plastics, but they should be tested on a small area first.

Series	Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Physical Form	Item No.
3M							
WL	5 gal Pail	Water	No Additives	20° to 110°F	White	Gel	**2GCD5**
	55 gal Drum	Water	No Additives	20° to 110°F	White	Gel	**2JPX6**
WLW	1 qt Squeeze Bottle	Water	No Additives	10° to 110°F	Green	Gel	**2JNW2**
	5 gal Pail	Water	No Additives	10° to 110°F	Green	Gel	**2JNT8**
WLX	1 qt Squeeze Bottle	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2JFN3**
	1 gal Pail	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2GCF9**
	5 gal Pail	Water-Wax Emulsion	No Additives	10° to 194°F	Gray	Paste	**2GCJ2**
Gardner Bender							
Super-Slick Cable Pulling Lubricant	1 qt Squeeze Bottle	Water	No Additives	28° to 200°F	White	Gel	**15V969**
	1 gal Jug	Water	No Additives	28° to 200°F	White	Gel	**15V970**
	5 gal Pail	Water	No Additives	28° to 200°F	White	Gel	**15V971**
Greenlee							
—	1 qt Squeeze Bottle	Water	No Additives	29° to 190°F	Yellow	Liquid	**4A801**
	1 qt Squeeze Bottle	Water	No Additives	29° to 190°F	Blue	Gel	**5C647**
	1 gal Pail	Water	No Additives	29° to 190°F	Blue	Gel	**4HEA7**
IDEAL							
Aqua-Gel® II	1 qt Squeeze Bottle	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F536**
	1 gal Pail	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F537**
	5 gal Pail	Polymer	No Additives	28° to 180°F	Blue	Gel	**10F538**
Clear Glide®	5 gal Pail	Polymer	No Additives	32° to 180°F	Colorless	Gel	**10F530**
Velocity™	1 qt Squeeze Bottle	Water	No Additives	40° to 170°F	White	Gel	**10F532**
	1 gal Pail	Water	No Additives	40° to 170°F	White	Gel	**10F533**
	5 gal Pail	Water	No Additives	40° to 100°F	White	Gel	**10F534**
Yellow 77®	1 qt Squeeze Bottle	Water-Wax Emulsion	No Additives	32° to 130°F	Yellow	Paste	**10F526**
	5 gal Pail	Water-Wax Emulsion	No Additives	32° to 130°F	Yellow	Paste	**10F528**
Yellow 77® Plus	1 qt Squeeze Bottle	Water	PTFE	32° to 190°F	Yellow	Paste	**10F523**
	1 gal Pail	Water	PTFE	32° to 190°F	Yellow	Paste	**10F524**
	5 gal Pail	Water	PTFE	32° to 190°F	Yellow	Paste	**10F525**
Super Lube							
Superpull	32 oz Squeeze Bottle	Water	No Additives	-15° to 220°F	Colorless	Liquid	**45NA76**

Spray Bottle 2YE15

Electrical Lubricants

- Flammable
- NSF rated H2 for no food contact
- No additives

Protect electronic components against moisture damage and corrosion that can cause an electrical malfunction. They also clean components, loosening corrosion or whisking away moisture. These lubricants have an amber color and have a petroleum distillates base.

Series	Container Size	Operating Temp. Range	Item No.
2-26	16 oz Aerosol Can	-50° to 250°F	**1HBK1**
	16 oz Spray Bottle	-50° to 250°F	**2YE15**
	1 gal Jug	-50° to 250°F	**13P438**
3-36	16 oz Aerosol Can	32° to 250°F	**4ZF10**

CRC Aerosol Can 1D267

Sprayon Pail 30WK33

Belt Dressing Lubricants

- Flammable
- Not odorless
- No additives

Prevent belts in machinery and equipment from hardening and accumulating dirt, which reduces wear and tear and increases belt life. They are ideal for flat, round, or V-shaped belts in leather, rubber, or canvas.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Lubricant Color	Item No.
CRC						
—	16 oz Aerosol Can	Mineral Oil	H1 Food Grade	-40° to 350°F	Amber	**1D267**
LPS						
—	16 oz Aerosol Can	Mineral Oil	H1 Food Grade	32° to 325°F	Colorless	**19C660**
Sprayon						
SP607	14 oz Spray Bottle	Mineral Oil	Not Rated	-40° to 450°F	Colorless	**4GUM7**
	16 oz Aerosol Can	Mineral Oil	P1 No Food Contact	-40° to 450°F	Amber	**6KHF7**
	5 gal Pail	Mineral Oil	P1 No Food Contact	-40° to 450°F	Amber	**30WK33**
SP608	16 oz Aerosol Can	Resin	H1 Food Grade	-40° to 450°F	Colorless	**12R259**

Trolley Lubricants

- Colorless
- Odorless
- No additives

Prevents bearings from sticking in overhead conveyors and chains. It leaves a film on overhead trolley chains commonly found in meat, poultry, and fish-processing plants. It remains fluid at low temperatures and won't wash off equipment with water.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Flammability	Item No.
FOODSAFE PETRO-SYN FG-220	5 gal Pail	Mineral Oil	H1 Food Grade	-54° to 475°F	Flammable	**40P254**

Spray Bottle
29FY02

Sugar-Dissolving Lubricants

- Colorless
- Odorless
- No additives

Used in food and beverage facilities to remove sugar and fondant from equipment. They leave a light, durable film on conveyor, cutter, and fastener surfaces while providing short-term corrosion resistance.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Item No.
Food Lube	15 oz Aerosol Can	Mineral Oil	H1 Food Grade	41° to 203°F	29FY01
	28 oz Spray Bottle				29FY02
	1 gal Jug				29FY03

Chainsaw Lubricants

Typically formulated with a tack additive to help them stick to the saw's chains and blades (sometimes called guidebars). These lubricants reduce friction between the moving parts to prevent damage caused by locking up, excessive heat, or buildup. They're applied to the chain and penetrate the pins, bushings, and blades.

Makita
Jug
6MYD3

Container Size	Lubricant Base	Equipment Power Source	Operating Temp. Range	Item No.
CRC				
1 qt Jug	Petroleum Distillates	Battery-operated, Electric, Gas	—	5TN64
Echo				
1 qt Jug	Petroleum Distillates	Electric, Gas	15° to 120°F	45J376
1 gal Jug	Petroleum Distillates	Electric, Gas	15° to 120°F	45J375
Mag 1				
1 qt Jug	Petroleum Distillates	Battery-operated, Electric, Gas	-35° to 140°F	43Y865
1 gal Jug	Petroleum Distillates	Battery-operated, Electric, Gas	-35° to 140°F	43Y866
Makita				
1 gal Jug	Mineral Oil	Electric, Gas	—	6MYD3
Renewable Lubricants				
1 qt Jug	Vegetable Oil	Battery-operated, Electric, Gas	-21° to 250°F	2NMX1

General Purpose Dry Lubricants

- Flammable

These lubricants reduce friction between moving parts with a powdery coating. They lubricate parts such as rollers, gears, and chains without a fluid. They can withstand high temperatures and won't break down and drip. They resist dust and dirt and prevent grime from building up on equipment.

Series	Container Size	Lubricant Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Item No.
Blaster								
—	8 oz Aerosol Can	Graphite	No Additives	Not Rated	-100° to 850°F	Colorless	Yes	41P116
	16 oz Aerosol Can	PTFE	No Additives	Not Rated	0° to 120°F	Colorless	—	16W547
CRC								
—	16 oz Aerosol Can	Molybdenum	No Additives	Not Rated	20° to 650°F	Gray	No	49XX25
	16 oz Aerosol Can	Molybdenum	No Additives	Not Rated	-30° to 650°F	Gray	No	2F138
	16 oz Aerosol Can	Graphite	No Additives	Not Rated	up to 850°F	Black	No	4JB39
	16 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	3EED7
	16 oz Spray Bottle	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	4JB32
	16 oz Aerosol Can	PTFE	No Additives	H2 No Food Contact	-40° to 450°F	White	No	4JB33
	16 oz Aerosol Can	Silicone	No Additives	H2 No Food Contact	-100° to 450°F	Colorless	No	3EED2
	5 gal Pail	Silicone	No Additives	H1 Food Grade	-40° to 400°F	Colorless	No	5VE47
3-36	16 oz Aerosol Can	Petroleum Distillates	No Additives	H2 No Food Contact	-40° to 300°F	Amber	No	3EEE4
LPS								
—	16 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-50° to 500°F	Colorless	No	19C657
Force 842°	16 oz Aerosol Can	Mineral Oil	Molybdenum	Not Rated	0° to 852°F	White	No	5YH76
LPS 1	11 oz Aerosol Can	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	6Y743
	22 oz Spray Bottle	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	2JFD7
	5 gal Pail	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	20Y598
	55 gal Drum	Mineral Oil	No Additives	H2 No Food Contact	-50° to 350°F	Amber	No	20Y599
SLIP Plate								
—	12 oz Aerosol Can	Petroleum Distillates	Graphite	Not Rated	-75° to 450°F	Black	No	1WVK7
	1 gal Can	Mineral Spirits	Graphite	Not Rated	-75° to 450°F	Black	No	1WVL3
	1 gal Can	Mineral Spirits	Graphite	Not Rated	-75° to 450°F	Black	No	1WVL5
	5 gal Pail	Mineral Spirits	Graphite	Not Rated	-75° to 450°F	Black	No	1WVL4
Sprayon								
LU200	16 oz Aerosol Can	Molybdenum	No Additives	H2 No Food Contact	-30° to 650°F	Black	No	6KHF6
LU204	13 oz Aerosol Can	Graphite	No Additives	H2 No Food Contact	-40° to 850°F	Black	No	30WK24
	16 oz Aerosol Can	Graphite	No Additives	H2 No Food Contact	-40° to 850°F	Gray	No	30WK23
LU211	20 oz Aerosol Can	Silicone	No Additives	H1 Food Grade	-40° to 450°F	Colorless	No	12R252
Sprayway								
Black Label	20 oz Aerosol Can	PTFE	No Additives	Not Rated	-20° to 500°F	White	No	45C007
Super Lube								
Dri-Film	20 oz Aerosol Can	PTFE	No Additives	H1 Food Grade	-40° to 500°F	White	No	44N743
WD-40 Specialist								
—	10 oz Aerosol Can	Mineral Oil	PTFE	H2 No Food Contact	-50° to 500°F	Colorless	Yes	44R237
	16 oz Aerosol Can	Mineral Oil	Silicone	H2 No Food Contact	-100° to 500°F	Colorless	Yes	19L521

Blaster
Aerosol Can
16W547

LPS
Pail
20Y598

SLIP Plate
Can
1WVL3

WD-40
Specialist
Aerosol Can
19L521

Chain & Wire Rope Dry Lubricants

Prevent damage by reducing the friction between the chain or rope as it engages with the equipment. The lubricant penetrates wire rope and the pins and bushings within a chain, leaving a dry film behind to prevent dust or dirt from sticking.

Container Size	Lubricant Base	Primary Additive	Chain and Wire Rope Uses	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
Blaster									
11 oz Aerosol Can	Petroleum Distillates	No Additives	Chain	Not Rated	0° to 350°F	Colorless	Yes	Flammable	48GG06
11 oz Aerosol Can	Silicone	No Additives	Chain	H1 Food Grade	-12° to 120°F	Colorless	Yes	Flammable	402M54
CRC									
16 oz Aerosol Can	Mineral Oil	No Additives	Chain, Open Gear	Not Rated	-25° to 350°F	Black	No	Flammable	1HBK7
Petrochem									
1 gal Jug	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 600°F	White	No	Non-Flammable	3NLK3
5 gal Pail	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 600°F	White	No	Non-Flammable	3NLK2
55 gal Drum	Synthetic Oil	Graphite	Oven Chain	H1 Food Grade	-4° to 1200°F	White	No	Non-Flammable	6HXF8
SLIP Plate									
12 oz Aerosol Can	Mineral Oil	Graphite	Chain	Not Rated	32° to 100°F	Black	No	Flammable	1WVL1
1 gal Can	Water & Polyglycol	Graphite	Oven Chain	H2 Food Grade	200° to 450°F	Black	No	Non-Flammable	1WVK8

Blaster
Aerosol Can
48GG06

Liquid Wrench Aerosol Can 54YK45

Garage Door Dry Lubricants

- Flammable
- Not NSF rated

Leave a dry film that protects rolling door mechanisms against water damage or corrosion.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
3-In-One						
16 oz Aerosol Can	Mineral Oil	Silicone	-40° to 392°F	Colorless	Yes	3DVF7
Blaster						
5 oz Aerosol Can	Silicone	No Additives	0° to 120°F	Colorless	Yes	48GG08
16 oz Aerosol Can	Silicone	No Additives	0° to 120°F	Colorless	Yes	10N778
Liquid Wrench						
16 oz Aerosol Can	Mineral Oil	No Additives	20° to 122°F	White	No	54YK45

3-In-One Aerosol Can 39EL86

Lock Dry Lubricants

- Flammable
- Not NSF rated

These powdery, solid substances penetrate quickly into stuck or frozen locks to release them, and they provide protection against further corrosion. They don't attract dust or dirt and won't create grime or leave wet residue in the lock.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
3-In-One						
5 oz Aerosol Can	Mineral Oil	PTFE	-50° to 500°F	Colorless	Yes	39EL86
CRC						
2 oz Aerosol Can	Graphite	No Additives	0° to 120°F	Black	No	48TA27
Liquid Wrench						
10 oz Aerosol Can	PTFE	No Additives	-20° to 115°F	White	Yes	54YT62

Inner Slide Dry Lubricants

- Flammable
- Not odorless

Increase slide motion on forklift rails and helps protect the rails against rust and corrosion. The primary additive is molybdenum.

Container Size	Lubricant Base	Operating Temp. Range	Lubricant Color	Item No.
16 oz Aerosol Can	Organic Solvent	0° to 325°F	Black	36F364

CRC Aerosol Can 4YPJ9

Electrical Dry Lubricants

- Flammable
- NSF rated H1 for incidental food contact

Coat electronics with a dry film that resists and repels moisture. They can be applied to nonenergized equipment in wet or harsh environments for waterproofing. They should not be applied to energized equipment.

Container Size	Lubricant Base	Primary Additive	Operating Temp. Range	Lubricant Color	Odorless	Item No.
16 oz Aerosol Can	Silicone	No Additives	-40° to 400°F	Colorless	No	4YPJ9
5 gal Pail						4YPK1

Sprayon Aerosol Can 1D277

Super Lube® Aerosol Can 44N744

WD-40 Specialist Jug 19L524

Penetrating Lubricants

Loosen fasteners or bolts that are stuck or frozen in place so they can be removed or separated. They seep into crevices or small spaces between threaded parts to release them. They can displace moisture and prevent corrosion between fasteners. Penetrating lubricants evaporate more quickly than other lubricants, so they are better used for short-term lubrication.

Series	Container Size	Lubricant Base	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Item No.
Blaster								
PB Blaster	4 oz Aerosol Can	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	4LRG2
	11 oz Aerosol Can	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	4LRF8
	18 oz Aerosol Can	Petroleum Distillates	Not Rated	0° to 120°F	Orange	No	Flammable	413W27
	1 gal Can	Petroleum Distillates	Not Rated	20° to 120°F	Colorless	No	Flammable	4LRF9
	5 gal Pail	Petroleum Distillates	Not Rated	20° to 120°F	Orange	No	Flammable	4LRG1
CRC								
—	16 oz Aerosol Can	Mineral Oil	H1 Food Grade	32° to 300°F	Colorless	Yes	Flammable	4JB37
Knock'er Loose	6 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Non-Flammable	12P768
	16 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Non-Flammable	3EED4
	20 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Orange	No	Flammable	1MEC7
	1 gal Jug	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Red	No	Flammable	3EED9
Screwloose®	16 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	32° to 300°F	Amber	No	Flammable	2F145
Liquid Wrench								
Penetrating Oil	11 oz Aerosol Can	Petroleum Distillates	Not Rated	-20° to 150°F	Yellow	Yes	Flammable	54YT50
	16 oz Squeeze Bottle	Vegetable Oil	Not Rated	-20° to 150°F	Yellow	Yes	Flammable	54YT51
LPS								
—	16 oz Aerosol Can	Mineral Oil	H1 Food Grade	0° to 400°F	Off-White	No	Flammable	19C655
KB-88	16 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	-40° to 300°F	Red	No	Flammable	1CMX3
	22 oz Spray Bottle	Petroleum Distillates	H2 No Food Contact	-40° to 300°F	Red	No	Flammable	6JHX4
Sprayon								
LU103	12 oz Aerosol Can	Petroleum Distillates	H2 No Food Contact	-20° to 550°F	Amber	No	Flammable	1D277
LU104	16 oz Aerosol Can	Synthetic Oil	H1 Food Grade	-40° to 475°F	Colorless	No	Non-Flammable	12R255
Super Lube								
Syncopen	16 oz Aerosol Can	Synthetic Oil	H1 Food Grade	-30° to 200°F	Colorless	No	Flammable	44N744
WD-40 Specialist								
—	11 oz Aerosol Can	Petroleum Distillates	Not Rated	-50° to 400°F	Colorless	Yes	Flammable	19L520
	1 gal Jug	Water	Not Rated	60° to 150°F	Colorless	Yes	Non-Flammable	19L524
Zep								
Selig	15 oz Aerosol Can	Mineral Oil	Not Rated	0° to 250°F	Colorless	No	Flammable	456L12
	20 oz Aerosol Can	Petroleum Distillates	Not Rated	0° to 250°F	Pink	No	Flammable	456L13

General Purpose Anti-Seize

Can be used in a wide variety of applications to prevent threaded fasteners and close-fitting parts from locking together.

Anti-Seize Technology Brush-Top Can 23YA46

CRC Aerosol Can 13P451

Jet-Lube Pail 10D823

Loctite Pillow Pack 2VFE7

Loctite Stick 3UU55

LPS Aerosol Can 49CT06

Rectorseal Brush Top Can 46F529

Sprayon Brush Top Can 6KDW2

Thomas & Betts Can 3LN47

Series	Container Size	Anti-Seize Base	Primary Additive	NSF Rating	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Conductive	Item No.
Anti-Seize Technology										
11000	5 oz Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA25
	8 oz Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA27
	16 oz Aerosol Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	34D498
	16 oz Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	34D507
	16 oz Brush-Top Can	Copper	Graphite	Not Rated	-300° to 1800°F	Copper	No	Non-Flammable	Yes	23YA29
13000	8 oz Brush-Top Can	Nickel	Graphite	Not Rated	-300° to 2600°F	Silver	No	Non-Flammable	Yes	23YA46
	1 lb Brush-Top Can	Nickel	Graphite	Not Rated	-300° to 2600°F	Silver	No	Non-Flammable	Yes	23YA50
CRC										
—	8 oz Brush-Top Can	Copper	No Additives	Not Rated	-95° to 2000°F	—	Yes	Non-Flammable	Yes	13P455
	8 oz Brush-Top Can	Nickel	Graphite	Not Rated	-95° to 2600°F	—	Yes	Non-Flammable	Yes	13P457
	16 oz Aerosol Can	Copper	No Additives	Not Rated	-65° to 1800°F	—	Yes	Flammable	Yes	13P451
	16 oz Brush-Top Can	Copper	No Additives	Not Rated	-95° to 2000°F	—	Yes	Non-Flammable	Yes	13P456
	16 oz Brush-Top Can	Nickel	Graphite	Not Rated	-95° to 2600°F	—	Yes	Non-Flammable	Yes	13P458
Jet-Lube										
550	0.25 lb Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	—	No	Non-Flammable	Yes	10D824
	0.5 lb Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	Gray	No	Non-Flammable	Yes	10D825
	1 lb Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Not Rated	-65° to 2400°F	Gray	No	Non-Flammable	Yes	10D826
Kopr-Kote	12 oz Aerosol Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	30WK61
	0.25 lb Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	—	No	Non-Flammable	Yes	10D817
	0.5 lb Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	—	No	Non-Flammable	Yes	10D818
	1 lb Brush-Top Can	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D819
	1 gal Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D821
	2.5 gal Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D822
	5 gal Pail	Copper	Graphite	H2 No Food Contact	-65° to 1800°F	Copper	No	Non-Flammable	Yes	10D823
Nikal	0.25 lb Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	—	No	Non-Flammable	Yes	10D829
	0.5 lb Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	—	No	Non-Flammable	Yes	10D830
	1 lb Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Non-Flammable	Yes	10D831
Silver Plus	0.5 lb Brush-Top Can	Aluminum	Graphite	Not Rated	-65° to 1800°F	Silver	No	Non-Flammable	Yes	30WK71
	1 lb Brush-Top Can	Aluminum	No Additives	Not Rated	-65° to 1800°F	Silver	No	Non-Flammable	Yes	30WK72
SS-30	0.5 lb Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	—	No	Non-Flammable	Yes	30WK62
Zinc Dust Petrolatum	1 lb Can	Zinc	No Additives	Not Rated	-65° to 788°F	Gray	No	Non-Flammable	Yes	30WK69
Loctite										
LB 771	8 oz Brush-Top Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	4KM51
	12 oz Aerosol Can	Aluminum, Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Flammable	Yes	33PK29
	1 lb Can	Nickel	Graphite	Not Rated	-20° to 2400°F	—	No	Non-Flammable	Yes	45MY42
	1 lb Brush-Top Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	4KM52
	8 lb Can	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	33HE97
	5 gal Pail	Nickel	Graphite	Not Rated	-20° to 2400°F	Silver	No	Non-Flammable	Yes	33HE98
LB 8007	12 oz Aerosol Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Flammable	Yes	33PK27
LB 8008	0.0705 oz Pillow Pack	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE7
	0.2469 oz Pillow Pack	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE8
	1 oz Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFE9
	4 oz Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2VFF1
	4 oz Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	4KM71
	7 oz Brush-Top Tube	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY33
	8 oz Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	5E203
	16 oz Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY38
	16 oz Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY39
	1 lb Brush-Top Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	2A272
	2.5 lb Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	45MY40
	8 lb Can	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	33HF02
	42 lb Pail	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	Non-Flammable	Yes	33HF03
LB 8012	8 oz Brush-Top Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	Yes	5E200
	12 oz Aerosol Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Flammable	Yes	33PK25
	1 lb Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	2VFF7
	15 lb Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	45MY48
LB 8036	8 oz Brush-Top Can	Non-Metallic	Graphite	Not Rated	-20° to 2000°F	White	No	Non-Flammable	Yes	3KE65
	16 oz Brush-Top Can	Non-Metallic	Graphite	Not Rated	-20° to 2000°F	White	No	—	Yes	3KE66
LB 8060	0.7054 oz Stick	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	—	Yes	3UU55
LB 8065	0.7054 oz Stick	Copper	Graphite	Not Rated	-20° to 1800°F	Copper	No	—	Yes	3UU54
LB 8070	0.7054 oz Stick	Non-Metallic	Graphite	Not Rated	-20° to 2400°F	Black	No	Non-Flammable	Yes	39E525
LB 8150	0.25 oz Pillow Pack	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	2VFF2
	4 oz Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	2VFF3
	8 oz Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	4KM46
	1 lb Brush-Top Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	45MY41
	1 gal Can	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	33HE99
	5 gal Pail	Aluminum	Graphite	Not Rated	-20° to 1600°F	Silver	No	Non-Flammable	Yes	33HF01
LB 8504	1 lb Can	Non-Metallic	Graphite	Not Rated	-20° to 900°F	Silver	No	Non-Flammable	Yes	45MY46
LB 8700	1 lb Can	Non-Metallic	Molybdenum	Not Rated	-20° to 750°F	Black	No	Non-Flammable	No	45MY50
LPS										
—	12 oz Aerosol Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	49CT06
	0.5 lb Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	—	Yes	49CT04
	0.5 lb Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	49CT07
	0.5 lb Brush-Top Can	Non-Metallic	No Additives	Not Rated	-65° to 1800°F	Gray	No	—	—	49CT09
Rectorseal										
Break-Out	8 oz Brush-Top Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F528
	12.76 oz Aerosol Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	31ER11
	16 oz Brush-Top Can	Copper	Graphite	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F529
Copper-Rich	16 oz Brush-Top Can	Copper	No Additives	Not Rated	-65° to 1800°F	Copper	No	Flammable	Yes	46F526
Moly-Rich	16 oz Brush-Top Can	Non-Metallic	Molybdenum	Not Rated	-65° to 1050°F	Blue	No	Flammable	No	31ER10
Nickel-Rich	8 oz Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Flammable	Yes	46F530
	16 oz Brush-Top Can	Nickel	Graphite	Not Rated	-65° to 2600°F	Silver	No	Flammable	Yes	31ER12
Sprayon										
LU 620	8 oz Brush-Top Can	Copper	No Additives	Not Rated	0° to 2100°F	—	No	Non-Flammable	Yes	6KDV1
	16 oz Brush-Top Can	Copper	Graphite	Not Rated	0° to 2100°F	—	No	Non-Flammable	Yes	6KDW2
Thomas & Betts										
Aluma-Shield	8 oz Can	Aluminum	No Additives	Not Rated	-50° to 250°F	Copper	No	Flammable	Yes	3LN47
Kopr-Shield	8 oz Can	Copper	No Additives	Not Rated	-50° to 250°F	Copper	No	Flammable	Yes	3LP03
	16 oz Can	Copper	No Additives	Not Rated	-50° to 250°F	Gray	No	Flammable	Yes	3LP02

Anti-Seize Technology Brush Top Can 23YC73

Jet-Lube Brush Top Can 26W746

Loctite Brush Top Tube 45MY36

Marine Grade Anti-Seize

- Nonflammable
- Not NSF rated
- Odorless
- No additives
- Water resistant

Can withstand exposure to fresh and salt water without washing out and prevents components from corroding or locking together. This anti-seize is metal-free to prevent water and ground contamination.

Series	Container Size	For Use On Materials	Operating Temp. Range	Lubricant Color	Conductive	Item No.
Anti-Seize Technology						
44000	1 lb Brush-Top Can	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 2400°F	Brown	No	23YC73
Jet-Lube						
Marine Grade	0.5 lb Brush-Top Can	Inconel, Iron Alloys, Stainless Steel	-65° to 1800°F	—	No	26W747
Marine Grade	1 lb Brush-Top Can	Inconel, Iron Alloys, Stainless Steel	-65° to 1800°F	Gray	No	26W746
Loctite						
LB 8023	7 oz Brush-Top Tube	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	45MY36
LB 8023	8 oz Brush-Top Can	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	3KE63
LB 8023	16 oz Brush-Top Can	Aluminum, Stainless Steel	-20° to 2400°F	Black	Yes	3KE64

Jet-Lube Brush-Top Can 26W744

LPS Brush Top Can 46F527

Sprayon Aerosol Can 12R256

Food Grade Anti-Seize

NSF H1 certified for use on food processing machinery or wherever incidental food contact is possible. It's white to show contaminants. It prevents fittings, bushings, flanges, and other components from sticking together or seizing.

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Odorless	Flammability	Conductive	Item No.
Anti-Seize Technology										
41000	8 oz Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-30° to 2100°F	Off-White	No	Non-Flammable	No	446G46
41000	16 oz Brush-Top Can	Non-Metallic	PTFE	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-50° to 2100°F	White	No	Non-Flammable	No	34D506
CRC										
—	8 oz Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 1800°F	White	Yes	Non-Flammable	Yes	4JB57
—	16 oz Brush-Top Can	Non-Metallic	No Additives	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-65° to 1800°F	White	Yes	Non-Flammable	Yes	4JB58
Jet-Lube										
White Knight	1 lb Brush-Top Can	Aluminum	PTFE	Aluminum, Iron, Plastic, Stainless Steel	-65° to 1800°F	White	No	Non-Flammable	Yes	26W744
Loctite										
LB 8014	8 oz Brush-Top Can	Non-Metallic	Molybdenum	Aluminum, Stainless Steel	-20° to 750°F	White	No	Non-Flammable	Yes	9WGX5
LB 8014	32 oz Can	Non-Metallic	Molybdenum	Stainless Steel	-20° to 750°F	White	No	Non-Flammable	Yes	6JZV9
LPS										
—	1 lb Brush-Top Can	Non-Metallic	No Additives	Plastic, Stainless Steel	-65° to 1800°F	Off-White	No	Non-Flammable	—	20Y618
Rectorseal										
—	16 oz Brush-Top Can	Non-Metallic	PTFE	Stainless Steel	-65° to 1800°F	Off-White	No	Flammable	Yes	46F527
Sprayon										
LU 621	15 oz Aerosol Can	Non-Metallic	No Additives	Aluminum, Brass, Copper, Fiber Glass, Iron, PVC, Stainless Steel, Steel	5° to 1800°F	—	No	Flammable	Yes	12R256

Anti-Seize Technology Aerosol Can 23YA37

Loctite Can 3JDN2

Heavy-Duty Anti-Seize

- Not NSF rated
- Not odorless
- Conductive

Formulated with graphite and molybdenum (moly) to withstand extreme temperatures and pressure. It's commonly used in manufacturing, milling, and mining facilities to keep fittings and flanges from locking together.

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Flammability	Item No.
Anti-Seize Technology								
12000	10 oz Brush-Top Can	Non-Metallic	Graphite, Molybdenum	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-300° to 2400°F	Black	Non-Flammable	23YA56
18000	12.5 oz Aerosol Can	Aluminum, Copper	Graphite	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-300° to 2000°F	Silver	Flammable	23YA37
18000	1 lb Brush-Top Can	Aluminum, Copper	Graphite	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-300° to 2000°F	Silver	Non-Flammable	23YA40
Loctite								
LB 8009	1 oz Tube	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	2VFF4
LB 8009	7 oz Brush-Top Tube	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	45MY35
LB 8009	9 oz Brush-Top Can	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	4KM74
LB 8009	18 oz Can	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	3JDN2
LB 8009	35 oz Can	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	—	Non-Flammable	45MY43
LB 8009	45 lb Pail	Non-Metallic	Graphite	Aluminum, Soft Metals, Stainless Steel	-20° to 2400°F	Black	Non-Flammable	45MY44
Zep								
Groovy	8 oz Brush-Top Can	Aluminum, Copper	Graphite	Aluminum, Brass, Cast Iron, Copper, Plastic, Stainless Steel, Steel, Titanium	-65° to 2100°F	Gray	Flammable	43NT22

Nuclear Grade Anti-Seize

- Nonflammable
- Not NSF rated
- Not odorless
- Conductive

Used in nuclear, chemical, and pharmaceutical plants to prevent components in reactors, steam generators, turbines, and other equipment from sticking and seizing. Nuclear grade anti-seize has very low levels of halogens, sulfur, nitrates, nitrides, and low-melting metals, so it can be used in applications that require high purity.

Anti-Seize Technology Can 446G51

Jet-Lube Brush-Top Can 30WK64

Series	Container Size	Anti-Seize Base	Primary Additive	For Use On Materials	Operating Temp. Range	Lubricant Color	Item No.
Anti-Seize Technology							
63000	38 oz Can	Stainless Steel	Graphite	Aluminum, Brass, Carbide, Cast Iron, Copper, Iron, Most Plastics, Nickel, Stainless Steel, Steel, Titanium	-50° to 2400°F	Silver	**446G51**
Jet-Lube							
Nikal Nuclear	0.5 lb Brush-Top Can	Nickel	Graphite	Stainless Steel	-65° to 2600°F	Silver	**30WK64**
	1 lb Brush-Top Can	Nickel		Stainless Steel	-65° to 2600°F	Silver	**30WK65**
Loctite							
LB N-1000	8 oz Brush-Top Can	Copper	No Additives	Stainless Steel, Steel	-20° to 1800°F	Copper	**2VFF9**
	1 lb Can	Copper		Stainless Steel, Steel	-20° to 1800°F	Copper	**45MY58**
LB N-5000	1 oz Tube	Nickel		Stainless Steel	-20° to 2400°F	—	**5XB46**
	8 oz Brush-Top Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY53**
	1 lb Brush-Top Can	Nickel		Stainless Steel	-20° to 2400°F	Silver	**45MY57**
	2 lb Can	Nickel	Graphite	Stainless Steel	-20° to 2400°F	Silver	**45MY55**
LB 8013	8 oz Brush-Top Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**2VFF8**
	1 lb Brush-Top Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**12Z243**
	2 lb Can	Non-Metallic		Stainless Steel	-20° to 2400°F	Silver	**45MY52**

Corrosion Inhibitors

Create a barrier between metal surfaces and corrosive materials like water and salt to increase the surface's corrosion resistance. They're a good choice for use on machinery and equipment in outdoor locations or humid or wet areas.

LPS Spray Bottle 2JFD6

Rustlick Jug 1C187

WD-40 Specialist Aerosol Can 19L523

Series	Container Size	Lubricant Film	Outdoor Life Expectancy	Indoor Life Expectancy	Max. Operating Temp.	Item No.
Blaster						
Surface Shield	12 oz Aerosol Can	Wet	Medium	Medium	175 °F	**787M80**
Corrosionx						
HD	12 oz Aerosol Can	Wet	Medium	Medium	200 °F	**4AAA7**
	1 gal Jug	Wet	Medium	Medium	200 °F	**4AAA8**
X	6 oz Aerosol Can	Wet	Medium	Medium	200 °F	**4DET1**
	16 oz Spray Bottle	Wet	Medium	Medium	200 °F	**4AAA2**
	16 oz Aerosol Can	Wet	Medium	Medium	200 °F	**4DET2**
CRC						
Aviation 3-36	11 oz Aerosol Can	Wet	Medium	Medium	300 °F	**14U852**
SP-350	11 oz Aerosol Can	Wet	Medium	Medium	—	**3EEC2**
	5 gal Pail	Wet	Medium	Medium	392 °F	**4YPH9**
SP-400	10 oz Aerosol Can	Dry	Medium	Medium	—	**2F143**
	5 gal Pail	Dry	Medium	Medium	175 °F	**4YPJ1**
Fluid Film						
AS	2.25 oz Aerosol Can	Wet	Medium	Medium	Not Rated	**10N784**
	11.75 oz Aerosol Can	Wet	Medium	Medium	Not Rated	**10N783**
Liquid A	5 gal Pail	Wet	Medium	Long	Not Rated	**10N789**
	55 gal Drum	Wet	Medium	Long	Not Rated	**10N790**
NAS	8 oz Brush-Top Can	Wet	Medium	Medium	Not Rated	**10N785**
	1 gal Can	Wet	Medium	Medium	Not Rated	**10N786**
	5 gal Pail	Wet	Medium	Medium	Not Rated	**10N787**
	55 gal Drum	Wet	Medium	Medium	Not Rated	**10N788**
LPS						
—	14 oz Aerosol Can	Dry	Long	Long	750 °F	**4KK70**
LPS 3	11 oz Aerosol Can	Wet	Medium	Medium	175 °F	**6Y745**
	20 oz Spray Bottle	Wet	Medium	Medium	175 °F	**2JFD6**
	1 gal Can	Wet	Medium	Medium	175 °F	**20Y605**
	5 gal Pail	Wet	Medium	Medium	175 °F	**20Y601**
	55 gal Drum	Wet	Medium	Medium	175 °F	**20Y635**
Rustlick						
631	1 gal Jug	Wet	—	Long	160 °F	**1C187**
	5 gal Pail	Wet	—	Long	160 °F	**1C185**
B	1 gal Jug	Dry	—	Short	212 °F	**6VDR8**
	5 gal Pail	Dry	—	Short	212 °F	**1C197**
	55 gal Drum	Dry	—	Short	212 °F	**3ELN9**
Sprayon						
LU710	12 oz Aerosol Can	Wet	Long	Medium	300 °F	**6KDT2**
WD-40 Specialist						
Specialist	6.5 oz Aerosol Can	Wet	Medium	Medium	250 °F	**19L523**
Zep						
Iron Clad	13 oz Aerosol Can	Dry	Short	Medium	500 °F	**449W21**
Linebacker	14 oz Aerosol Can	Dry	Medium	Long	174 °F	**449W28**
Iron Clad	5 gal Pail	Dry	Medium	Long	550 °F	**449W20**

Mold Release

Applied directly to molds to create a barrier that prevents materials from sticking to them. This allows the casted product to be released without damage to the mold or the product, so it increases the life of the mold, improves the final product's finish, and reduces production times.

General Purpose CRC 2F128

Mold Release Cleaner Sprayon 6GDY8

Container Size	Mold Release Base	Primary Additive	Mold Release Film	NSF Rating	Operating Temp. Range	Flammability	Water Resistant	Item No.
General Purpose Mold Release								
Sprayon								
12 oz Aerosol Can	Silicone	Difluoroethane	Wet	H2 No Food Contact	40° to 550°F	Flammable	No	**4TA95**
CRC								
16 oz Aerosol Can	Boron Nitride	No Additives	Wet	Not Rated	40° to 800°F	Flammable	Yes	**2F127**
16 oz Aerosol Can	Vegetable Oil	No Additives	Wet	Not Rated	40° to 500°F	Non-Flammable	Yes	**2F128**
LPS								
11 oz Aerosol Can	Petroleum	Silicone	Dry	Not Rated	-40° to 500°F	Flammable	Yes	**4KK78**
16 oz Aerosol Can	Petroleum	PTFE	Dry	Not Rated	-40° to 500°F	Flammable	—	**4KK82**
Sprayon								
12 oz Aerosol Can	PTFE	Difluoroethane	Dry	Not Rated	40° to 575°F	Flammable	No	**3NZC4**
12 oz Aerosol Can	Silicone	Difluoroethane	Wet	H2 No Food Contact	40° to 550°F	Flammable	No	**3NZC3**
12 oz Aerosol Can	Silicone	Difluoroethane	Wet	Not Rated	40° to 550°F	Flammable	No	**4TA93**
Stoner								
11 oz Aerosol Can	Silicone	No Additives	Wet	Not Rated	0° to 120°F	Flammable	No	**35HY62**
12 oz Aerosol Can	Petroleum Distillates	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY57**
12 oz Aerosol Can	Silicone	Dimethyl Ether	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY36**
12 oz Aerosol Can	Silicone	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY56**
12 oz Aerosol Can	—	Dimethyl Ether	Wet	Not Rated	0° to 400°F	Flammable	No	**35HY45**
12 oz Aerosol Can	PTFE	Dimethyl Ether	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY43**
12 oz Aerosol Can	Petroleum Distillates	No Additives	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY59**
12 oz Aerosol Can	Silicone	Dimethyl Ether	Dry	Not Rated	0° to 500°F	Flammable	No	**35HY33**
Heavy Duty Mold Release								
CRC								
16 oz Aerosol Can	Silicone	No Additives	Wet	Not Rated	40° to 600°F	Non-Flammable	Yes	**1HBL1**
Sprayon								
12 oz Aerosol Can	Silicone	Propyl Bromide	Wet	Not Rated	70° to 600°F	Non-Flammable	No	**6KDU0**
Semi-Permanent Mold Release								
Stoner								
10 oz Aerosol Can	Petroleum Distillates	No Additives	Wet	Not Rated	0° to 500°F	Flammable	No	**35HY50**
Mold Release Cleaner								
Sprayon								
16 oz Aerosol Can	Mineral Spirits	No Additives	Wet	Not Rated	40° to 416°F	Non-Flammable	No	**6GDY8**

Find more Cleaners on pages 1502 to 1505, 1509 to 1511 in the Cleaning & Janitorial section.

Gasket Remover
5YK56

Duster
3VG76

FOODLUBE
29FY01

CD887
1MEU7

Graffiti Remover
12W318

HydroForce Stainless Steel Cleaner
4JB52

HydroForce Foaming Citrus
5YK90

BFX
4JB59

CD880
4GUP7

Task 2
6VAD2

Workplace
5YH78

RLI Food Grade
21A574

CLEAN 2430
6VAD6

HydroForce Butyl-Free Cleaner
5YK92

Cleaners

GASKET REMOVER
Solvent-based cleaner removes baked-on fiber gaskets, gasket adhesives, and sealants. Excellent on paint and varnish. Contains no methylene chloride.

DUSTER™ AEROSOL DUST REMOVAL SYSTEM
Powerful blast removes dirt, dust, and embedded debris on energized equipment. Nonflammable and safe on all plastics.

FOODLUBE SUGAR DISSOLVING FLUID
Removes sugars and fondants from surfaces. Lubricating film helps prevent new sugar deposits and provide short-term corrosion protection on metal surfaces. DETEX® container plastics are metal- and X-ray-detectable.

CD887 COIL AND FIN CLEANER
Water-based, foaming cleaner for use on refrigeration and A/C coils. Nonflammable and noncorrosive. Safe on all metals.

GRAFFITI REMOVER
Gel cleaner removes or helps clean multilayered or painted-over graffiti, paints, pen marks, crayon, ink, lipstick, scuff marks, lacquers, and varnishes.

HYDROFORCE® GLASS CLEANER
Ammonia-fortified, water-based formula with nonstreaking foaming action. 10 to 10.5 pH.

HYDROFORCE® STAINLESS STEEL CLEANER AND POLISH
Eliminates fingerprints and watermarks, leaving a protective, nongreasy barrier. Water-based formula. 10.55 pH.

HYDROFORCE® FOAMING CITRUS CLEANER
Clings to tough stains on vertical or inverted surfaces. Water-based formula is safe on all plastics. 10.9 pH.

WORKPLACE HAND CLEANER TOWELS
Waterless, deep cleaning, and nonscratching 1-step hand cleaner towel. Quickly removes embedded grime. Residue-free.

RLI FOOD GRADE™ CLEANER
Water-based, water soluble detergent is a biodegradable cleaner/degreaser that is safe for food processing plants and environmentally sensitive areas.

CLEAN 2430
Mild pH parts-washing compound and corrosion inhibitor for multi-metal applications.

HYDROFORCE® BUTYL-FREE CLEANER
Water-based formula is safe to use on most plastics. 10.5 to 12.2 pH. Low VOC content.

HYDROFORCE® ZERO VOC CLEANERS
Remove dirt, grease, and oil.10.25 pH. Plastic-safe, water-based formula.

BFX ALL-PURPOSE CLEANER
Dye-free, water-based cleaner is designed to remove dirt, grease, and oil. Not for use on magnesium. 11.8 pH.

LIQUI-SOL™ CLEANERS
CD880 General Purpose Cleaner is safe for metal, finished wood, porcelain, vinyl, leather, and laminated surfaces. CD885 Stainless Steel Cleaner cleans, polishes, brightens, and protects metal surfaces.

TASK 2™ GRIME FIGHTER
Nonbutyl, industrial metalworking surface cleaner can be diluted up to 100:1.

Description	Container Size	Ready to Use/ Concentrated	Cleaner Form	Fragrance	Brand	Item No.
Aerosol Spray Can						
Gasket Remover	16 oz.	Ready to Use	Liquid	—	CRC	**5YK56**
Duster™ Aerosol Dust Removal System	12 oz.	Ready to Use	Liquid	Ethereal	CRC	**3VG76**
FOODLUBE Sugar Dissolving Fluid	16 oz.	Ready to Use	Liquid	Mild	LPS	**29FY01**
CD887 Coil and Fin Cleaner	18 oz	Ready to Use	Foam	Slight Ammonia	Sprayon	**1MEU7**
Graffiti Remover	16 oz.	Ready to Use	Liquid	Unscented	CRC	**12W318**
HydroForce® Glass Cleaner	20 oz.	Ready to Use	Liquid	Unscented	CRC	**5YL03**
HydroForce® Stainless Steel Cleaner and Polish		Ready to Use	Liquid	Unscented	CRC	**4JB52**
HydroForce® Foaming Citrus Cleaner	20 oz.	Ready to Use	Foam	Unscented	CRC	**5YK90**
Trigger Spray Bottle						
FOODLUBE Sugar Dissolving Fluid	28 oz.	Ready to Use	Liquid	Mild	LPS	**29FY02**
BFX All-Purpose Cleaner	28 oz.	Ready to Use	Liquid	Sassafras	LPS	**4JB59**
HydroForce® Glass Cleaner	32 oz.	Ready to Use	Liquid	Unscented	CRC	**5YL02**
CD880 Liqui-Sol™ General Purpose Cleaner	14 oz.	Ready to Use	Liquid	Unscented	Sprayon	**4GUP7**
CD885 Liqui-Sol™ Stainless Steel Cleaner		Ready to Use	Liquid	Unscented	Sprayon	**4GUR5**
Task 2™ Grime Fighter	32 oz.	Concentrated	Liquid	Unscented	Master Chemical	**6VAD2**
Bucket						
WorkPlace Hand Cleaner Towels	72 Count	Ready to Use	Towels	Orange	LPS	**5YH78**
RLI Food Grade™ Cleaner	5 gal.	Concentrated	Liquid	Unscented	Renewable Lubricants	**21A574**
Jug						
FOODLUBE Sugar Dissolving Fluid	1 gal.	Ready to Use	Liquid	Mild	LPS	**29FY03**
CLEAN 2430	1 gal	Concentrated	Liquid	Mild	Master Chemical	**6VAD6**
HydroForce® Butyl-Free Cleaner	32 oz.	Ready to Use	Liquid	Unscented	CRC	**5YK91**
HydroForce® Butyl-Free Cleaner	1 gal.	Ready to Use	Liquid	Unscented	CRC	**5YK92**
HydroForce® Zero VOC Cleaner	32 oz.	Ready to Use	Liquid	Unscented	CRC	**1RLN9**
HydroForce® Zero VOC Cleaner	1 gal.	Ready to Use	Liquid	Unscented	CRC	**1RLP1**
Pail						
CLEAN 2430	5 gal	Concentrated	Liquid	Mild	Master Chemical	**6VAD7**

Find more Degreasers on pages 1506, 1506 to 1506 in the Cleaning & Janitorial section.

Water-Based Degreasers

- Ready to use

Liquid water-based degreasers use water as a primary solvent, plus detergents, emulsifiers, cleaning agents, surfactants, and other compounds, to dissolve soils or make contaminants more dissolvent in water.

44R238

4JB54

5YK96

5YL05

3EEC6

2C670

Description	Container Size	NSF Rating	Properties	VOC Content	Product Series	Brand	Item No.
Aerosol Spray Can							
Multi-Purpose Cleaner Degreaser	18 oz	C1	Butyl Free, Nonflammable, Plastic Safe	6%	Precision Clean	LPS	**3HY53**
Degreaser	18 oz	C1	—	6%	Specialist®	WD-40 Specialist	**44R238**
Heavy Duty Degreaser	20 oz	C1	Biodegradable, Nonflammable, Plastic Safe	0%	Hydroforce®	CRC	**4JB54**
All Purpose Degreaser	20 oz	C1	Biodegradable, Nonflammable, Plastic Safe	0%	Hydroforce®	CRC	**5YK96**
Industrial Strength Degreaser	20 oz	C1	Butyl Free, Nonflammable	0%	Hydroforce®	CRC	**5YL05**
Trigger Spray Bottle							
Cleaner/Degreaser	24 oz	A1, A2, A4, A8, B1	Biodegradable, Nonflammable, Plastic Safe	0%	Specialist®	WD-40 Specialist	**52XA22**
All Purpose Degreaser	32 oz	C1	Biodegradable, Nonflammable, Plastic Safe	0%	Hydroforce®	CRC	**3EEC6**
Multi-Purpose Cleaner Degreaser	28 oz	C1	Butyl Free, Nonflammable, Plastic Safe	6%	Precision Clean	LPS	**2C682**
Jug							
Industrial Strength Degreaser	1 gal	C1	Nonflammable	0%	Hydroforce®	CRC	**3EED1**
Multi-Purpose Cleaner Degreaser	1 gal	C1	Butyl Free, Nonflammable, Plastic Safe	6%	Precision Clean	LPS	**2C670**

Natural-Based Degreasers

- Ready to use

Liquid natural degreasers use organic sources for their base including citrus, soybean oil, coconut oil, and ethyl lactate (renewable carbohydrates). Scents are lighter and fresher than solvent-based cleaners.

Description	Container Size	NSF Rating	Properties	VOC Content	Product Series	Brand	Item No.
Citrus-Based Solvent							
Aerosol Spray Can							
Degreaser	15 oz	C1	Butyl Free, Plastic Safe	97%	PreSolve	LPS	**2C654**
Degreaser	16 oz	C1	Biodegradable	98%	CD757	Sprayon	**6KHF1**
Canister							
Degreaser	5 gal	C1	Biodegradable	100%	CD757	Sprayon	**30WK56**
Drum							
Heavy Duty Degreaser	55 gal	C1	Plastic Safe	0%	Hydroforce®	CRC	**3APL9**
Degreaser	55 gal	C1	Biodegradable	100%	CD757	Sprayon	**30WK57**
Degreaser	55 gal	C1	Butyl Free, Plastic Safe	100%	PreSolve	LPS	**4UAD7**
Jug							
Heavy Duty Degreaser	1 gal	C1	Plastic Safe	0%	Hydroforce®	CRC	**3EEC7**
Non Aerosol Can							
Degreaser	1 gal	C1	Butyl Free, Plastic Safe	100%	PreSolve	LPS	**49CT11**
Trigger Spray Bottle							
Degreaser	20 oz	C1	Butyl Free, Plastic Safe	100%	PreSolve	LPS	**2JFD8**
Degreaser	14 oz	C1	Biodegradable	100%	CD757	Sprayon	**4GUP5**
Multi-Purpose Cleaner Degreaser	28 oz	A1	Biodegradable, Butyl Free, Nonflammable, Plastic Safe	0%	T-91	LPS	**6JHX7**
Coconut Oil Based Solvent							
Box							
Cleaner/ Degreaser	5 gal	A1, A8	Butyl Free, Nonflammable, Plastic Safe	0%	Suma® Break-Up®	Diversey	**32GP56**
Ethyl Lactate							
Aerosol Spray Can							
Cleaner/ Degreaser	20 oz	K1	—	8%	Super-Soy	CRC	**4YPJ8**
Soy-Based Solvent							
Aerosol Spray Can							
Heavy Duty Degreaser	20 oz	A1	Plastic Safe	10%	ZEP Soy Power	Zep	**449W31**
Bottle							
Degreaser	32 oz	Not Rated	Nonflammable, Plastic Safe	3%	Soy Response	Zep	**54ZN98**
Jug							
Cleaner/ Degreaser	1 gal	Not Rated	Biodegradable, Nonflammable, Plastic Safe	3%	Bio-Soy Orange	Renewable Lubricants	**2VXK1**
Trigger Spray Bottle							
Cleaner/ Degreaser	12 oz	Not Rated	Biodegradable, Nonflammable, Plastic Safe	3%	Bio-Soy Orange	Renewable Lubricants	**2VXJ9**

2C654

6KHF1

4GUP5

6JHX7

3EEC7

32GP56

449W31

2VXJ9

54ZN98

Find more Degreasers on pages 1506, 1506 to 1506 in the Cleaning & Janitorial section.

4ETV6 4XME9 2HYX7 20Y612 1D259 3EEC3 4KK67 14U851 1D265

3EEE2 4YPJ6 5VE56 36C086 3KB69 6KDR6 6KDT9 4JB69 4JB51

Solvent-Based Degreasers

- Ready to use

Solvent-based degreasers use chemicals to remove petroleum, grease, dirt, and fatty oils.
Scents are stronger than natural-based cleaners.

Description	Container Size	NSF Rating	Properties	VOC Content	Product Series	Brand	Item No.
Aerosol Spray Can							
Light Duty Degreaser	20 oz	K1	—	0%	Insta-Solv®	CRC	**4YPJ7**
Degreaser	14 oz	Not Rated	Butyl Free, Plastic Safe	97%	PF	LPS	**4JB68**
Degreaser	15 oz	C1	Butyl Free, Plastic Safe	0%	A-151	LPS	**4ETV6**
Degreaser	15 oz	C1	Butyl Free	9%	G-49	LPS	**4XME9**
Degreaser	15 oz	C1	Butyl Free	1%	EVR	LPS	**2HYX7**
Degreaser	15 oz	C1	Butyl Free	62%	ZeroTri	LPS	**2C691**
Degreaser	15 oz	Not Rated	Butyl Free, Plastic Safe	90%	EFX	LPS	**20Y612**
Degreaser	20 oz	K1	Nonflammable	0%	Quick Clean™	CRC	**1D259**
Degreaser	20 oz	K2	—	0%	Chlor Free®	CRC	**3EEC3**
Heavy Duty Degreaser	15 oz	K1, K2	—	0%	—	CRC	**1D264**
Heavy Duty Degreaser	19 oz	Not Rated	Butyl Free, Nonflammable	97%	HDX	LPS	**4KK67**
Heavy Duty Degreaser	20 oz	K1	Nonflammable	96%	SUPER DEGREASE™	CRC	**14U851**
Heavy Duty Degreaser	20 oz	K1	Nonflammable	8%	—	CRC	**1D265**
Heavy Duty Degreaser	20 oz	K2	Nonflammable	0%	LECTRA CLEAN®	CRC	**3EEE2**
Heavy Duty Degreaser	20 oz	K1, K2	—	0%	LECTRA CLEAN®	CRC	**5VE64**
Fast Dry Degreaser	20 oz	K2	—	0%	—	CRC	**4YPJ6**
Cleaner/Degreaser	16 oz	K2	Nonflammable	1%	SUPER DEGREASE™	CRC	**5VE56**
Cleaner/Degreaser	20 oz	C1	—	1%	—	CRC	**21GT84**
Cleaner/Degreaser	20 oz	C1	—	0%	Natural Degreaser™	CRC	**3EED6**
Cleaner/Degreaser	20 oz	K1	Nonflammable	82%	T-Force®	CRC	**36C086**
Cleaner/Degreaser	20 oz	K1	Nonflammable	50%	T-Force®	CRC	**459V68**
Heavy Duty Cleaner/Degreaser	16 oz	C1	—	1%	—	CRC	**4JB50**
Heavy Duty Cleaner/Degreaser	20 oz	C1	—	0%	—	CRC	**3EED5**
Electrical Degreaser	20 oz	K2	Nonflammable, Plastic Safe	98%	ELE848 Flash Free®	Sprayon	**3KB69**
Electrical Degreaser with Extension Tube	15 oz	K2	—	45%	EL749	Sprayon	**6KDR3**
Electrical Degreaser with Extension Tube	16 oz	K2	Nonflammable, Plastic Safe	98%	EL848 Flash Free®	Sprayon	**6KDR6**
Trigger Spray Bottle							
Degreaser	33 oz	C1	Plastic Safe	62%	CD1275	Sprayon	**6KDT9**
Electrical Degreaser	14 oz	K2	Nonflammable, Plastic Safe	100%	EL848 Flash Free®	Sprayon	**4GUP8**
Bottle							
Degreaser	32 oz	Not Rated	Butyl Free, Plastic Safe	100%	PF	LPS	**4JB69**
Jug							
Degreaser	1 gal	C1	Plastic Safe	48%	CD1275	Sprayon	**6KDW7**
Heavy Duty Cleaner/Degreaser	1 gal	C1	—	1%	—	CRC	**4JB51**

Electrical Contact Cleaners Information

Plastic Compatibility

Safe on All Plastics indicates safe for use on plastic housings without damage.

Safe on Most Plastics designates safe on most plastic housings without cracking or damage. Testing cleaner for compatibility before use is recommended.

Dielectric Strength Range

Dielectric strength is the maximum voltage an insulator can withstand before breaking down and allowing electric current through if contacts are energized before cleaner evaporates. The higher the dielectric strength level, the greater the insulation against sparks, current breakthrough, or electrical shorts. When power can't be disconnected, look for cleaners with the highest dielectric strengths.

National Sanitation Foundation (NSF) International manages a voluntary registration program for nonfood compounds and proprietary substances that provides specific ratings to help food processing operations understand where certain products should and should not be used.

NSF RATINGS, CATEGORIES, AND INTENDED USE

K1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas

K2: Solvent Cleaners - Cleaning/Degreasing Solvents for Electronic Instruments

P1: Solvent Cleaners - Cleaning/Degreasing Solvents for Use in Nonprocessing Areas (Includes lubricants, cleaners, and coatings)

2EAX1 40WY43 1D262 1D263 6KHF3 44R239

Electrical Contact Cleaners

- Ready to use liquid

Contact cleaners remove dust, dirt, oil, flux residue, and other contaminants from sensitive electronics and electrical components without excessive scrubbing or wiping. These fast-drying cleaners improve conductivity by removing contaminants from the energized surfaces of electronic components, devices, and equipment.

Plastic-safe contact cleaners eliminate any incompatibility with plastic components or rubber gaskets that house or surround sensitive electronics or electrical components. These precision electrical contact cleaners remove dust, dirt, oil, and other contaminants without damaging plastic, rubber, or conductive surfaces. Safe for most plastics. Test for compatibility before use.

Container Type	Container Size	Flammability	Dielectric Strength	VOC Content	NSF Rating	Product Series	Brand	Item No.
Contact Cleaners								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	12 oz	Nonflammable	47.5 kV	64.7 %	K2	REVO 66	LPS	**2HYX5**
	13 oz	Nonflammable	30.8 kV	30.9 %	K2	2000 VC	CRC	**2EAX1**
	16 oz	Nonflammable	36 kV	97.24 %	K2	EL2001	Sprayon	**6KDT5**
	18 oz	Nonflammable	39 kV	42.4 %	K2	Lectra Force	CRC	**45FG57**
	19 oz	Nonflammable	37.5 kV	0 %	K2	No Series	CRC	**4YPJ5**
	19 oz	Nonflammable	39 kV	81.7 %	Not Rated	Cable Clean	CRC	**4YPJ4**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	12 oz	Nonflammable	11.5 kV	59.5 %	Not Rated	Electra-X 2.0	LPS	**40WY44**
	12 oz	Nonflammable	11.5 kV	59.5 %	K2	NoFlash 2.0	LPS	**40WY43**
	16 oz	Nonflammable	15 kV	42 %	Not Rated	Electro-Wash	Chemtronics	**24JY91**
	18 oz	Nonflammable	15 kV	94 %	K2	EL2846	Sprayon	**1MET9**
	18 oz	Nonflammable	26.8 kV	96 %	K2	Cable Clean	CRC	**1HBK2**
Plastic Safe Contact Cleaners—Safe on All Plastics								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	11 oz	Flammable	39.5 kV	75 %	P1	QD	CRC	**1D262**
Bucket	5 gal	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**5YK64**
Drum	55 gal	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**3APN4**
Trigger Spray Can	14 oz	Flammable	30.5 kV	74.9 %	K2	QD	CRC	**6RA76**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	10 oz	Flammable	12.5 kV	2 %	K2	EL2206	Sprayon	**39H843**
	14 oz	Nonflammable	22 kV	45 %	Not Rated	Electro	LPS	**20Y602**
	14 oz	Nonflammable	27.6 kV	0 %	K2	No Series	CRC	**1D266**
Trigger Spray Can	10 oz	Nonflammable	27.6 kV	0 %	K2	CO	CRC	**2YE16**
Plastic Safe Contact Cleaners—Safe on Most Plastics								
Greater Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	11 oz	Flammable	45.7 kV	97.2 %	K2	HF	CRC	**1D263**
	12 oz	Nonflammable	30.2 kV	23.5 %	K2	XT-2000	CRC	**1XFF1**
	13 oz	Flammable	30.8 kV	57.5 %	K2	2000	CRC	**12W317**
	16 oz	Flammable	30.8 kV	57.5 %	K2	NT	CRC	**3FB96**
Less Than 30 kV Dielectric Strength Range								
Aerosol Spray Can	10 oz	Flammable	350V	71.85 %	K2	No Series	CRC	**1D261**
	11 oz	Nonflammable	Not Rated	75 %	K2	EL2302	Sprayon	**6KHF3**
	11 oz	Flammable	13.1 kV	96.8 %	K2	Electro 140°	LPS	**2C642**
	11 oz	Flammable	25 kV	45 %	K2	Specialist	WD-40 Specialist	**44R239**
	11 oz	Flammable	Not Rated	74 %	K2	CFC Free NU	LPS	**2HCP2**
	11 oz	Flammable	Not Rated	96.2 %	K2	Micro-X	LPS	**4JB63**
	11 oz	Flammable	Not Rated	74 %	K2	Micro-X NU	LPS	**4XMF1**
	12 oz	Nonflammable	9 kV	70.1 %	K2	NoFlash	LPS	**2F017**
	12 oz	Nonflammable	19.4 kV	65 %	K2	EL2020	Sprayon	**6KDW5**
	12 oz	Flammable	8.3 kV	74.9 %	K1, K2	No Series	CRC	**1HBK5**
	16 oz	Flammable	Not Rated	96.2 %	K2	CFC Free Electro	LPS	**2C687**
	20 oz	Flammable	10 kV	75 %	Not Rated	P1	Sprayway	**45C005**
	20 oz	Flammable	Not Rated	100 %	Not Rated	Electro-Wash	Chemtronics	**1UYD7**
Trigger Spray Can	14 oz	Nonflammable	Not Rated	75 %	K2	EL2302	Sprayon	**4GUP4**

3VG76 5JC04 3XKC3

Aerosol Dusters

- Aerosol can
- Ready to use liquid

These compressed air cans shoot a powerful stream of air to remove surface contaminants including dust, dirt, and debris from sensitive equipment including computer keyboards, test instruments, circuit boards, and machinery. Air is nonabrasive and evaporates quickly without leaving any residue.

Container Size	Recommended For	Brand	Item No.
8 oz	Electronics	CRC	**3VG76**
10 oz	A/V Equipment, Contacts, Lab Instrumentation, Medical Devices, Office Equipment, PLCs, Printed Circuit Boards, TV and VCR Internals	Chemtronics	**5JC04**
10 oz	Electronics, Office Equipment	Techspray	**3XKC3**
15 oz	Electronics, Office Equipment	Techspray	**3XKC4**

4YPK4 22HU70

Freeze Sprays

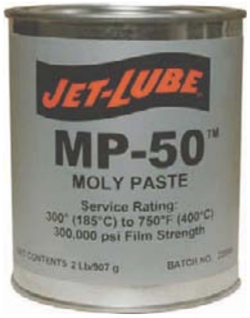
- Safe on all plastics
- Nonflammable
- 0% VOC content
- Trigger spray can
- Ready to use liquid

Sprays are aerosol coolants that emit icy cold air to instantly dissipate heat and cool circuits. Freezing components helps locate thermal intermittent failures and shorts in computers, electronics, data processing equipment, and testing equipment. Nonabrasive freeze sprays evaporate instantly without any residue.

Container Size	Brand	Item No.
10 oz	CRC	**4YPK4**
10 oz	Techspray	**22HU69**
15 oz	Techspray	**22HU70**

39F945

33ME85



2YKK6

4ZF49

1MUC1

52YA13

Multipurpose Greases

CRC®

General Purpose—For bearings and on cables, chains, latches, machinery, open gears, and overhead door tracks.

CITGO

Premium Lithium EP—Lubricates journal and antifriction bearings.

Lithoplex® MP—Helps minimize wear in heavily loaded components. Offers corrosion and oxidation resistance.

Lithoplex® CM and HM—Provide wear protection in construction and mining applications. Polymer-fortified for improved adhesion and water resistance. Lithoplex CM has 3% MoS_2. Lithoplex HM has 5% MoS_2.

Lithoplex® RT—Tacky, moly-free formula provides good adhesion and water resistance.

JET-LUBE®

MP-50™ Moly Paste—Lead-free, water-resistant low-friction grease helps prevent corrosion.

Temp-Guard™—Contains graphite and molybdenum disulfide for low friction and extreme pressure capabilities.

MOBIL™

Mobilith® SHC 220—Lubricates at temperature extremes; rust-, corrosion-, and oxidation-resistant.

Mobillith SHC™—4ZF48 is for extreme pressure applications. 4ZF49 is for grease-lubricated rolling-element bearings in electric motors.

Mobilgrease® XHP 222—Provides lubrication and oxidation stability plus rust, corrosion, and water resistance. Use for automotive, construction, marine applications and farm equipment.

Mobilgrease® XTC—Resists oil separation in high-speed flexible gear and grid coupling applications.

Mobilux® EP 1 and 2—EP 1 can be pumped at low temperatures. EP 2 is recommended for antifriction and plain bearings, bushings, and pins under normal operating conditions.

WD-40® SPECIALIST®

High Temperature—For high-speed bearings in high-temperature applications with heavy mechanical loads.

Extreme Pressure—Offers protection against wear and high loads in heavy-duty applications.

Marine Grade Water Resistant—For moisture and corrosion protection for equipment that's exposed to the damp weather conditions.

B'LASTER

Penetrating Grease—Penetrates rust and corrosion to lubricate and protect metal surfaces. For use in agriculture, construction, mining, and automotive applications.

Heavy-Duty Grease—Protects and lubricates in temperatures up to 500°F. Great for automotive, construction, mining, and farm equipment.

Waterproof Marine Grease—Provides protection, even with extended exposure to saltwater and saltwater mist.

Extra-Tacky Red Grease—Provides anti-wear and extreme pressure protection, in temperatures up to 550°. Rust- and -corrosion resistant.

Pro-Grade Multipurpose Grease—Water-resistant formula provides lubrication under moderate loads. Protects against rust and corrosion.

SUPER LUBE®

O-Ring Silicone Grease—For lubricating, sealing, and conditioning O-rings and other regulator and valve system components.

Description	Grease Thickener	Lubricant Additives	Base Oil	NLGI Grade	Container Type	Container Size	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC®											
General Purpose	Lithium	—	Petroleum	2	Pail	35 lb	Amber	250 °F	0 °F	SL3315	**39F945**
Citgo											
Premium Lithium EP	Lithium	—	Mineral	2	Pail	35 lb	Amber	250 °F	5 °F	655212001022	**33ME70**
Premium Lithium EP	Lithium	—	Mineral	2	Drum	120 lb	Amber	250 °F	5 °F	655212001072	**33ME71**
Lithoplex® MP	Lithium Complex	Zinc	Mineral	2	Tube	14 oz	Gray	350 °F	0 °F	655340001080	**52XN91**
Lithoplex® CM	Lithium Complex	Zinc	Mineral	1	Tube	14 oz	Gray	350 °F	-5 °F	655351001080	**52XN93**
Lithoplex® HM	Lithium Complex	—	Mineral	2	Cartridge	14 oz	Gray	325 °F	-10 °F	655357001080	**33ME85**
Lithoplex® RT	Lithium Complex	Zinc	Mineral	1	Tube	14 oz	Red	350 °F	0 °F	655343001080	**52XN94**
Lithoplex® RT	Lithium Complex	—	Mineral	2	Pail	35 lb	Red	325 °F	-10 °F	655344001044	**33ME73**
Jet-Lube®											
MP-50™ Moly Paste	Clay	Molybdenum	Mineral	3.5	Can	1 lb	Blue	750 °F	-300 °F	28003	**2YKK6**
MP-50™ Moly Paste	—	Molybdenum	—	—	—	2 lb	—	750 °F	-300 °F	28007	**5CHT5**
Temp-Guard™	—	—	Synthetic	1.5	Cartridge	14 oz	Black	600 °F	-10 °F	31850	**26W739**
Mobil™											
Mobilgrease® SHC 220	Lithium Complex	—	Synthetic	2	Cartridge	13.4 oz	Red	300 °F	-40 °F	121952	**5ZN11**
Mobillith SHC™	Lithium Complex	—	Synthetic	1.5	Cartridge	13.7 oz	White	350 °F	-40 °F	122129	**4ZF48**
Mobillith SHC™	Lithium Complex	—	Synthetic	2	Cartridge	13.4 oz	Red	350 °F	-40 °F	122112	**4ZF49**
Mobilgrease® XHP 222	Lithium Complex	—	Mineral	2	Cartridge	13.7 oz	Blue	284 °F	0 °F	121929	**1MUC1**
Mobilgrease® XHP 222	Lithium Complex	—	Mineral	2	Pail	5 gal	Blue	284 °F	0 °F	105842	**1MUC2**
Mobilgrease® XTC	Lithium	—	Mineral	1	Cartridge	14 oz	Dark Brown	120 °F	-30 °F	105804	**2RV27**
Mobilux® EP 1	Lithium	—	Mineral	1	Cartridge	13.7 oz	Brown	120 °F	-20 °F	121093	**2RV29**
Mobilux® EP 2	Lithium	—	Mineral	2	Cartridge	13.7 oz	Brown	266 °F	-4 °F	122136	**2RV31**
Mobilux® EP 2	Lithium	—	Mineral	2	Pail	5 gal	Tan	130 °F	-20 °F	105763	**5NJT9**
WD-40® Specialist®											
High Temperature	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz	Green	325 °F	-40 °F	300394	**52YA11**
Extreme Pressure	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz	Red	325 °F	-40 °F	300400	**52YA12**
Marine Grade Water Resistant	Lithium Complex	Petroleum Distillates	Mineral	2	Cartridge	14 oz	Blue	325 °F	-40 °F	300417	**52YA13**
B'laster											
Penetrating Grease	Polymer	Distillates	Synthetic	—	Cartridge	14 oz	Orange	500 °F	97 °F	GR-14C-PB	**443U98**
Heavy-Duty Grease	Calcium Sulfonate	Calcium Sulfonate	Petroleum	2	Cartridge	14 oz	Green	500 °F	97 °F	GR-14C-HDG	**443U99**
Waterproof Marine Grease	Calcium Sulfonate	Calcium Sulfonate	Petroleum	2	Cartridge	14 oz	Blue	500 °F	97 °F	GR-14C-WP	**443V01**
Extra Tacky Red Grease	Lithium Complex	Lithium	Petroleum	2	Cartridge	14 oz	Red	500 °F	97 °F	GR-14C-HTR	**443V02**
Pro-Grade Multi-Purpose Grease	Lithium Complex	Lithium	Petroleum	2	Cartridge	14 oz	Amber	500 °F	97 °F	GR-14C-MP	**443V03**
Super Lube											
O-Ring Silicone Grease	Silicone	No Additives	Silicone	2	Tube	3 oz	White	500 °F	-40 °F	93003	**436P94**
O-Ring Silicone Grease	Silicone	No Additives	Silicone	2	Can	14.1 oz	White	500 °F	-40 °F	93016	**436P95**

CRC®
4JB56

Jet-Lube®
5CHP4

Mobil™
2RV34

Prtrochem®
Foodsafe®
3NLK4

Sta-Lube®
13P453

Super Lube®
44N732

Tri-Flow
4TA91

Food Grade Multipurpose Greases

CRC®

Greases—4JB56 is formulated on a premium aluminum complex base. 12G584 has a smooth, buttery texture and is a premium-grade aluminum complex grease. 12G587 is plastic-safe and particularly useful in high-temperature applications. Extreme Duty 12G591 is a plastic-safe grease with excellent water-washout resistance.

JET-LUBE®

FMG™—Food Machine Grease is formulated for a wide variety of operating conditions, with extreme water resistance to stay in place even after frequent washdowns. Polymer additives provide adhesive and cohesive strength to resist pound-out under shock loads. It is recommended to lubricate all types of bearings in food processing machinery.

MOBIL™

Mobilgrease™ FM 222—High-performance multipurpose formula is designed to lubricate food processing machinery in varied environments, from oven to freezer operations, and over a wide range of speeds and loads. The grease withstands periodic washdown and cleaning operations, with excellent water resistance and rust inhibition and good protection against wear and shock loads.

PETROCHEM® FOODSAFE®

PETRO-GARD® FMG-2—Formulated with special additives selected to provide excellent water, oxidation, and corrosion resistance, plus corrosion prevention and excellent antiwear and extreme-pressure (EP) properties. The product stays in place between washdown cycles to help boost equipment and lubricant life in wet conditions.

SYN GEL FG-750—High-temperature gel grease seals bearings against water and other contaminants and provides corrosion protection. It remains stable under high shear and high temperatures, and will not melt, drip, carbonize, or emulsify. The lubricant is highly water-resistant and performs exceptionally well in wet applications.

STA-LUBE®

Super White™ Multipurpose—High-purity greases provide superior performance in any weather and most temperatures. Bright white color is great where appearance is important.

SUPER-LUBE®

Multipurpose Grease with Syncolon® PTFE—Heavy-duty lubricant is made with proprietary Syncolon PTFE micropowders combined with synthetic base fluids for longer lasting protection against friction, wear, rust, and corrosion. Designed to help reduce downtime, increase productivity, and extend machinery life. The formula has good mechanical stability, won't melt or separate, and does not evaporate or form gummy deposits.

Silicone Lubricating Compound with Syncolon® PTFE—Synthetic grease offers excellent water protection and moisture barrier over a wider operating range than petroleum-based lubes. It's good for plastic gears and threads and as a damping medium for dash pots. Also lubricates O-rings, electrical motor and slow-speed bearings, brake parts, weather stripping, trunk seals, speedometer cables, window channels, hood strips, pads, rubber gaskets, and other rubber components.

TRI-FLOW®

Synthetic Grease with PTFE—Compatible with most rubbers and plastics; excellent for O-rings. Nonstaining and waterproof. Pure synthetic provides added durability and performance.

Description	Grease Thickener	Base Oil	NLGI Grade	Container Type	Container Size	NSF Rating	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC®											
Multipurpose Food Grade Grease	Aluminum Complex	Mineral	2	Cartridge	14 oz	H1	White	300 °F	-30 °F	SL35600	**4JB56**
	Aluminum Complex	Mineral	2	Pail	35 lb	H1	White	300 °F	-30 °F	SL35605	**12G584**
Synthetic Food Grade Grease	Silica	Synthetic	2	Cartridge	14 oz	H1	Clear	350 °F	-20 °F	SL35610	**12G587**
Extreme Duty Food Grade Grease	Calcium Sulfonate	Mineral	2	Cartridge	14 oz	H1	Tan	400 °F	-20 °F	SL35615	**12G591**
Jet-Lube®											
FMG™	Aluminum Complex	Mineral	2	Cartridge	14 oz	H1	White	400 °F	0 °F	30150	**5CHP4**
Mobil™											
Mobilgrease™ FM 222	Aluminum Complex	Mineral	2	Cartridge	13.7 oz	H1	White	500 °F	0 °F	121956	**2RV34**
Petrochem® Foodsafe®											
PETRO-GARD FMG-2	Aluminum Complex	Semi-Synthetic	2	Cartridge	14 oz	H1	White	300 °F	-22 °F	PETRO-GARD FMG-2	**3NLK5**
SYN GEL FG-750	—	Synthetic	2	Cartridge	14 oz	H1	White	500 °F	-4 °F	SYNGEL FG-750	**3NLK4**
Sta-Lube®											
Super White™ Multipurpose	Lithium	Mineral	2	Tube	10 oz	H2 No Food Contact	White	300 °F	0 °F	SL3360	**39F946**
	Lithium	Mineral	1.5	Cartridge	14 oz	H2 No Food Contact	White	300 °F	0 °F	SL3150	**13P453**
	Lithium	Mineral	1.5	Pail	35 lb	H2 No Food Contact	White	300 °F	0 °F	SL3155	**39F944**
Super-Lube®											
Multipurpose Grease With Syncolon® (PTFE)	PTFE	Synthetic	2	Pail	30 lb	H1	White	450 °F	-45 °F	41030	**44N724**
Silicone Lubricating Grease With Syncolon® (PTFE)	—	Synthetic	2	Cartridge	14.1 oz	H1	White	500 °F	-40 °F	92150	**44N732**
Tri-Flow®											
Synthetic Grease with PTFE	PTFE	Synthetic	2	Cartridge	14 oz	—	White	400 °F	-10 °F	TF220211	**4TA91**

ThermaPlex®
Multi-Purpose
4UJ42

Jet-Lube® EP
6HAL9

Bearing Grease

- Grease container: Cartridge

MOBIL™

Polyrex™ EM—Super-premium grease is formulated for electric-motor bearings, particularly vertically mounted bearings or very large motors that may require stiffer grease consistency.

LPS® THERMAPLEX®

Multipurpose—For use as a high-performance, multifunctional bearing grease in general purpose applications.

Hi-Temp—Resists carbonization, vibration, and bearing failure. Extends relubrication intervals. Excellent resistance.

Hi-Load—Provides long-lasting lubrication for bearings subjected to shock loading and vibration. Offers antiwear properties and corrosion resistance.

Aqua—Provides long-lasting lubrication even when fully submerged in fresh or salt water.

FoodLube—Nonstaining, nonemulsifying formula for use in food processing and other clean industries.

CS Moly—Calcium sulfonate formula with molybdenum disulfide for high load carrying capacity. Reduces wear from vibration. Water- and corrosion-resistant.

JET-LUBE®

EP—Bearing grease contains an extreme-pressure additive that enhances shear stability in high temperatures.

STA-LUBE®

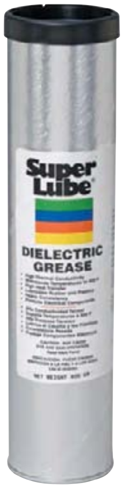
Sta-Plex™ Extreme Pressure Grease—Multipurpose, lithium complex formula contains extreme pressure, anti-oxidation, and anti-wear additives. For high temperature applications and for use in ball and roller bearings and in assembly/machining equipment.

Description	Container Size	NSF Rating	Grease Thickener	Grease Color	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
Mobil™								
Polyrex™ EM	13.7 oz	Not Rated	Polyurea	Blue	320 °F	-4 °F	124050	**5XB54**
LPS® ThermaPlex®								
Multipurpose	14.1 oz	Not Rated	Lithium Complex	Blue	350 °F	-22 °F	70614	**4UJ42**
Hi-Temp	14.1 oz	Not Rated	Lithium Complex	Tan	392 °F	-15 °F	70214	**4UJ38**
Hi-Load	14.1 oz	Not Rated	Lithium Complex	Black	350 °F	-22 °F	70414	**4UJ40**
Aqua	14.1 oz	Not Rated	Aluminum Complex	Amber	300 °F	-4 °F	70514	**4UJ41**
FoodLube	14.1 oz	H1 Food Grade	Aluminum Complex	White	302 °F	-4 °F	70114	**38F843**
CS Moly	14.1 oz	H2 No Food Contact	Calcium Sulfonate	Gray	425 °F	0 °F	70814	**4FPW8**
Jet-Lube®								
EP	14 oz	Not Rated	Lithium	Purple	325 °F	0 °F	30350	**6HAL9**
Sta-Lube®								
Sta-Plex™ Extreme Pressure Grease	14 oz	H2 No Food Contact	Lithium Complex	Red	325 °F	-20 °F	SL3190	**5EVZ0**

CRC®
1HBK3

Jet-Lube®
2YKK4

Loctite
5E201



Super-Lube®
44N728

Dielectric Grease

CRC® Dielectric Grease—Food-grade noncuring silicone compound waterproofs electrical connections and components to protect against arcing. 2F136 features Perma-Lock® integrated actuator that will not detach.

Jet-Lube® Silicone Compound DM™—Moisture-proofing sealant and lubricant's low volatility, inert properties, and high dielectric strength are good for use on a wide range of elastomers and plastics. It can serve as a lubricant, sealant, or chemical barrier coating for valves, O-rings, stuffing boxes, and vacuum and pressure systems; great to insulate electrical connectors against the elements.

Jet-Lube® MP (Moisture-Proofing) Silicone Grease™—Nonconductive premium moistureproofing lubricant is useful in a wide variety of applications, and a great insulator to protect electrical connectors against the elements. It is excellent on marine, automotive, and aircraft ignition systems, as well as electrical assemblies, cable and spark plug connections, and battery terminals. The formula is designed for compatibility with O-ring materials including Buna-N, Viton® FKM, HSN (hydrogenated nitrile), Teflon® PTFE, and nylon.

Loctite® LB 8801 Silicone Lubricant—Noncuring. Seals, waterproofs, and electrically insulates metal, rubber, and plastic parts. Can also be used as a mold release agent.

Super-Lube® H1 Food Rated Dielectric Grease—Noncuring synthetic compound lubricates, seals, and protects electrical components and connectors including battery cables, spark plugs, distributor caps, terminal strips and disconnects, and cable connections. Compatible with most plastics and rubber, it helps moistureproof and insulate electrical connections, offers corrosion prevention, and helps keep contaminants out.

Super-Lube® H1 Food Grade Multipurpose Grease—PTFE-based formula provides friction, wear, rust, and corrosion protection. This grease will not run, drip, melt or separate.

NLGI Grade	Container Type	Container Size	NSF Rating	Grease Color	Base	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
CRC® Dielectric Grease									
2	Tube	3.3 oz	H1	White	Silicone	400 °F	-70 °F	02085	**1HBK3**
CRC®									
2	Aerosol Can	10 oz	H1	Clear	Silicone	400 °F	-70 °F	03082	**2F136**
Jet-Lube® Silicone Compound DM™									
3	—	—	—	—	Silicone	—	—	73560	**2YKJ9**
3	Cartridge	14 oz	H1	Clear	Silicone	400 °F	-70 °F	73550	**2YKK4**
Jet-Lube® MP Silicone Grease™									
1.5	Tube	5.3 oz	H1	Clear	Silicone	400 °F	-70 °F	32460	**2YKK1**
Loctite® LB 8801 Dielectric Grease									
—	Tube	5.3 oz	Not Rated	Clear	Silicone	400 °F	—	234317	**5E201**
Super-Lube® H1 Food Grade Dielectric Grease									
2	Cartridge	14.1 oz	H1	White	PAO/Mineral Oil/Silicone	500 °F	-40 °F	91015	**44N728**
Super-Lube® H1 Food Grade Multipurpose Grease									
2	Cartridge	14.1 oz	H1	White	PAO/Mineral Oil	450 °F	-45 °F	41150	**44N721**

CRC
4ZF09

LPS
6JHY0

Sprayon
6KHE9

Tri-Flow
4TA92

WD-40 Specialist
31XR57

Aerosol Spray Multipurpose Greases

CRC

Red Grease—Aluminum complex-based formula prevents rust, corrosion, and oxidation; maintains lubricity at extremely high temperatures. Long-lasting waterproof film resists acids, alkalis, salt, weather, and steam.

Food Grade White Grease—Features Perma-Lock integrated actuator. Formulated for high-load applications requiring long grease life. Protects against wear, rust, and oxidation.

White Lithium Grease—Formula offers superior lubrication and durability in any weather. An excellent bearing break-in lube and a general purpose lube and corrosion inhibitor for tools, machinery, equipment, guide rails/tracks, hinges, latches, chains, and cables.

Heavy-Duty Clear Penetrating Grease—High-tack gel resists throwoff and water washout. Forms a thick, long-lasting waterproof film that resists acids, alkalis, salt, oxidation, weather, and steam.

LPS

White Lithium with PTFE—Ultra-white lithium-based aerosol grease has PTFE additives for superior lubricity.

Red and Redi—Bentonite clay-based grease offers high temperature performance and corrosion resistance.

SPRAYON

LU 100 White Lithium Grease—High-solids, nonmelting formula provides excellent metal-to-metal lubrication and is an excellent corrosion inhibitor for unpainted metal. The spray-on grease features great cling for overhead applications.

TRI-FLOW

Synthetic Grease with PTFE—Premium formula is nonstaining and helps prevent corrosion on gaskets, O-rings, conveyors, sterilizer chains, slides, pool equipment, electric motors, water filters, and universal joints.

WD-40 SPECIALIST

Protective White Lithium Grease—Liquid formulation sprays on evenly, then sets dry to form a thick, nonmelting coating that's great for metal-to-metal applications where heavy-duty lubrication and protection against rust and corrosion are required. Long-lasting, freeze-resistant lube won't run off in any weather. Good for outdoor and indoor applications, and on equipment being prepared for storage.

B'LASTER

Food-Grade White Spray Grease—Clean, low-odor grease protects against rust, moisture and oxidation in a range of applications, including food processing and food handling. Formulated for heavy-load applications. NSF H1 registered.

Penetrating Lithium Grease—Time-release formula penetrates existing rust and corrosion and provides long-lasting lubrication and surface protection. Great for restoration projects and various agriculture, construction, and automotive applications.

White Lithium Multipurpose Grease— Low-friction lubrication creates a protective barrier, protecting against moisture and oxidation. Grease helps keep surfaces lubricated in extreme temperatures.

Description	Container Size	NSF Rating	NLGI Grade	Grease Thickener	Grease Color	Lubricant Additives	Max. Operating Temp.	Min. Operating Temp.	Base Oil	Mfr. Model	Item No.
B'laster											
Food Grade White Spray Grease	11 oz	H1	—	Lithium	White	Lithium	120 °F	-12 °F	Mineral	16-WG-FG	**402M56**
High-Performance White Lithium	11 oz	Not Rated	1	Lithium	White	—	—	—	Mineral	16-LG	**16W545**
Penetrating Lithium Grease	8 oz	Not Rated	—	Lithium	Orange	Lithium	500 °F	97 °F	Petroleum	GR-8A-PB	**443V04**
CRC											
Dielectric Grease	10 oz	H1	2	Silicone	Clear	—	400 °F	-70 °F	Synthetic	03082	**2F136**
Disc Brake Quiet	12 oz	Not Rated	—	—	Red	—	N/A	—	—	05017	**1YHP3**
Food Grade White Grease	16 oz	H1	2	Aluminum Complex	White	Aluminum Complex	450 °F	0 °F	Mineral	03038	**1XFC1**
Heavy-Duty Clear Penetrating Grease	20 oz	H2 No Food Contact	—	—	Clear	Molybdenum	500 °F	-30 °F	Petroleum	03056	**12W315**
Red Grease	16 oz	Not Rated	2	—	Red	—	300 °F	-25 °F	Aluminum Complex	03079	**1HBK8**
White Lithium Grease	10 oz	H2 No Food Contact	2	Lithium	White	Zinc	300 °F	0 °F	Lithium Stearate	03080	**4ZF09**
Crown											
Lithium Grease	11 oz	Not Rated	2	Lithium	White	—	360 °F	-70 °F	Mineral	7037	**36XE44**
Du Pont											
White Lithium Grease	10 oz	Not Rated	2	PTFE	White	PTFE	500 °F	97 °F	Mineral	MS-TWL	**35RP35**
Liquid Wrench											
White Lithium Grease	10.2 oz	Not Rated	2	Lithium	White	Petroleum Distillates	115 °F	35 °F	Petroleum	L616	**54YT56**
Loctite											
White Lithium Grease	10.75 oz	Not Rated	2	Lithium	White	—	380 °F	—	Mineral	1906122	**45MY66**
LPS											
Red and Redi Multipurpose	16 oz	Not Rated	2	Clay	Red	—	450 °F	-40 °F	Mineral	05816	**5YH77**
White Lithium with PTFE	16 oz	Not Rated	2	Lithium	White	PTFE	120 °F	0 °F	Mineral	03816	**6JHY0**
LubriMatic											
White Lithium Grease	12 oz	Not Rated	2	Lithium	White	PTFE	—	-122 °F	Mineral	11363	**41AA46**
Sprayon											
Food Grade Synthetic Grease	14.25 oz	H1	2	PTFE	Clear	—	325 °F	-10 °F	Synthetic	S00207000	**12R257**
Food Grade White Grease	13.75 oz	H1	2	Lithium	White	—	285 °F	-25 °F	Mineral	S00101000	**12R261**
LU™100 White Lithium Grease	16 oz	H2 No Food Contact	—	Lithium	White	—	275 °F	-20 °F	—	SC0100000	**6KHE9**
Tri-Flow											
Synthetic Grease with PTFE	11.25 oz	—	2	PTFE	White	—	400 °F	-10 °F	Synthetic	TF220201	**4TA92**
WD-40 Specialist											
Protective White Lithium Grease	10 oz	H2 No Food Contact	—	Lithium	White	—	300 °F	0 °F	Mineral	300615	**31XR57**
Zep											
Redi-Grease Multi-Purpose Grease	12 oz	Not Rated	—	Aluminum Complex	Red	Aluminum	400 °F	0 °F	Petroleum	11521	**456L09**

Mobilgear™ 600 XP
1MUC6

SHC™ 630
20JY58

ExxonMobil

Gear Oils

MINERAL

Mobiltac™ MM

Non-diluent formula features extreme pressure additives, providing protection of gear teeth and metal surfaces subject to extremely heavy loads. Oil forms a cohesive and adhesive lubricating film that resists wear, water wash, and excessive "throw off." For use in applications such as open gears, hoist gears, swing gears, and large press gears.

Mobilgear™ 600 XP

Provide heightened protection against micropitting, debris denting, and bearing wear in enclosed gear drives with circulation or splash lubrication systems.

Mobil™ 600 W Super

High-performance, high-viscosity oil is designed for use in enclosed worm gears operating at moderate to high speeds and temperatures. Provides good sealing film around rods and in glands in steam applications. Resists deposit formation. Excellent antiwear and low friction properties.

SYNTHETIC

Mobil SHC™ 600

Provide equipment protection at high and low temperatures, allowing peak productivity performance. Formulated for oxidation stability, corrosion and rust prevention. High performing oil in water separability, foam control, and air release. Run 20% cooler than conventional oil, limiting power consumption and reducing maintenance cost. For use in enclosed gears, speed and gear reducers, and plain and roller bearings.

Series	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Mfr. Model	Item No.
Mineral						
Mobiltac™ MM	Not Specified	NA	5 gal	Pail	100684	**4DNJ2**
Mobilgear™ 600 XP 68	68	101	5 gal	Pail	105882	**4DNJ4**
Mobilgear™ 600 XP 150	150	97	5 gal	Pail	105880	**1MUC6**
Mobilgear™ 600 XP 220	220	97	5 gal	Pail	105879	**4DNH4**
Mobilgear™ 600 XP 680	680	90	5 gal	Pail	103499	**4DNH7**
Mobil™ 600 W Super	460	95	5 gal	Pail	101923	**4DNJ6**
Synthetic						
Mobil SHC™ 600	220	169	1 qt	Bottle	123000	**6Y778**
	460	174	1 qt	Bottle	123018	**4ZF30**
	220	169	5 gal	Pail	110843	**20JY58**

Mobil™ SHC Cibus
6HHA6

Mobil™
SHC Cibus™ 460
6HHC1

Petrochem®
Foodsafe FG
Series
3NLK7

Renewable
Lubricants™ Bio-
Food Grade™
5JGG9

ExxonMobil Petrochem FOODSAFE SUPPLIER DIVERSITY RENEWABLE LUBRICANTS

Food Grade Gear Oils

Note: Food Grade Ratings are determined by the National Sanitation Foundation (NSF), these values include H1 (acceptable for incidental food contact), H2 (not acceptable for any contact with food), and H3 (edible/soluble).

H1 RATED

Mobil SHC Cibus™ Series—Food-grade synthetic oils feature high viscosity and load carrying capability, excellent oxidation stability and water separation, good seal compatibility and corrosion protection, and low traction coefficient.

Petrochem® Foodsafe FG Series—Semisynthetic gear lubricant for gearboxes operating under low and high temperatures.

Petrochem® Foodsafe Gearsyn FGG Series—For gearboxes and enclosed gears under low or high temperatures and humidity. Provides a protective antirust film for gaskets or seals of tank closures.

H2 RATED

Petrochem® Gearsyn EP 220—Ideal for heavily loaded low-speed gears and bearings with boundary or elasto-hydrodynamic lubrication conditions such as in mine hoist gear reducers. Also for gearboxes which operate under excessively high temperatures.

Renewable Lubricants™ Bio-Food Grade™—For gear drives and right-angle gear drives.

Description	Base Oil	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
H1 Food Grade									
Mobil									
SHC Cibus™ 32	Synthetic	32	140	5 gal	Pail	260 °C	12°F	104093	**6HHA8**
SHC Cibus™ 46	Synthetic	46	148	5 gal	Pail	260 °C	—	104094	**6HHC0**
SHC Cibus™ 68	Synthetic	68	151	5 gal	Pail	260 °C	12°F	104095	**6HHC2**
SHC Cibus™ 150	Synthetic	150	150	5 gal	Pail	260 °C	13 °F	104098	**6HHA6**
SHC Cibus™ 220	Synthetic	220	139	5 gal	Pail	260 °C	13 °F	104080	**6HHA7**
SHC Cibus™ 320	Synthetic	320	147	5 gal	Pail	260 °C	13 °F	104096	**6HHA9**
SHC Cibus™ 460	Synthetic	460	148	5 gal	Pail	260 °C	13 °F	104097	**6HHC1**
Petrochem®									
Foodsafe FG Series	Semi-Synthetic	220	96	1 gal	Can	445 °F	-6 °F	FG-220-001	**3NLK7**
Foodsafe FG Series	Semi-Synthetic	220	96	5 gal	Pail	445 °F	-6 °F	FG-220-005	**3NLK6**
Foodsafe FG Series	Semi-Synthetic	460	129	1 gal	Can	445 °F	0 °F	FG-460-001	**3NLK9**
Foodsafe FG Series	Semi-Synthetic	460	127	5 gal	Pail	445 °F	0 °F	FG-460-005	**3NLK8**
Foodsafe Gearsyn FGG Series	Semi-Synthetic	220	158	1 gal	Can	585 °F	-30 °F	FGG-220-001	**6HXL1**
H2 No Food Contact									
Petrochem®									
Gearsyn EP 220	Synthetic	220	134	5 gal	Pail	500 °F	-45 °F	EP-220-005	**6HXL7**
Renewable Lubricants™									
Bio-Food Grade™	Semi-Synthetic	220	226	5 gal	Pail	250 °F	10 °F	87254	**5JGG9**

Mobil™ DTE 32
4ZF37

Petrochem® FMO Series
40P269

Petrochem® FG Series
3NLL2

Food Grade Hydraulic Oils

ExxonMobil Petrochem FOODSAFE

- NSF H1 Rated

Note: Food Grade Ratings are determined by the National Sanitation Foundation (NSF), these values include H1 (acceptable for incidental food contact), H2 (not acceptable for any contact with food), and H3 (edible/soluble).

Mobil™ DTE FM 32—Highly refined mineral oil is treated to remove color bodies. Will not stain or discolor material it contacts.

Petrochem® Foodsafe FMO Series—White oil base stocks is fortified to provide protection against corrosion, wear, and oxidation. For use with hydraulic systems, pneumatic lubricators, light-duty air compressors, chains, bearings, vacuum pumps, blowers, and slideways.

Petrochem® Foodsafe Hydraulic FG Series—Semisynthetic blend fluids feature EP wear protection and good demulsibility. For high-pressure hydraulic, cooler conveyor, circulating, and air compressor systems in food processing and air line applications.

Base Oil	ISO Viscosity Grade	Viscosity Index	Container Size	Container Type	Max. Operating Temp.	Min. Operating Temp.	Mfr. Model	Item No.
Mobil™ DTE FM 32								
Mineral	32	106	5 gal	Pail	150 °C	—	105764	**4ZF37**
Petrochem® Foodsafe FMO Series								
Mineral	32	115	5 gal	Pail	410 °F	5°F	FMO 32-005	**40P269**
	46	108	5 gal	Pail	420 °F	10°F	FMO 46-005	**40P270**
	100	112	5 gal	Pail	450 °F	15°F	FMO 100-005	**40P272**
Petrochem® Foodsafe Hydraulic FG Series								
Semi-Synthetic	32	101	1 gal	Can	445 °F	5°F	HYD-FG-32-01	**3NLL2**
	32	101	5 gal	Pail	445 °F	5°F	HYD FG-32-05	**3NLL1**
	46	101	1 gal	Can	445 °F	5°F	HYD FG-46-01	**3NLL4**
	46	101	5 gal	Pail	445 °F	5°F	HYD FG-46-05	**3NLL3**
	68	100	1 gal	Can	445 °F	5°F	HYD FG-68-01	**3NLL6**
	68	100	5 gal	Pail	445 °F	5°F	HYD FG-68-05	**3NLL5**

ExxonMobil

Hydraulic and Circulating Oils

HYDRAULIC OILS

DTE™ 24, 25, and 26—Antiwear industrial oils meet the requirements of all conventional and high-output hydraulic systems. Operate in a wide range of temperatures while handling heavy loads. For hand- and power-operated jacks, scissor jacks, and hand pumps.

DTE 10 Excel™— Excellent keep-clean, antiwear performance and deposit control. Nonzinc formula is compatible with zinc-containing hydraulic fluids. Excellent protection against rust. Controlled demulsibility to work with small amounts of water and separate out large quantities. Multimetal compatibility.

EAL 224H—Recommended for most hydraulic systems requiring readily biodegradable, nontoxic fluids.

Aero™ HFA—For aircraft systems that require hydrocarbon-based hydraulic fluids. Features high viscosity index with excellent low-temperature properties and good chemical and oxidation stability.

CIRCULATING OILS

DTE™ Light, Medium, Heavy Medium, and Heavy—Contain oxidation inhibitors to resist thermal degradation and defoamants to ensure entrained air is released. Demulsibility permits water and other contaminants to separate. For bearings, gears, hydraulics, selected vacuum pumps, and air compressors.

DTE™ Extra Heavy— Formulated for extremely high chemical and thermal stability, rapid and complete separation from water, and high resistance to emulsification. For steam and hydro turbines, including geared turbines.

DTE 24
56MD24

DTE Heavy
6Y781

Description	ISO Viscosity Grade	Container Size	Container Style	Mfr. Model	Item No.
Hydraulic Oils					
DTE 24	32	5 gal	Pail	125356	**56MD24**
	32	1 gal	Box	125363	**56MD25**
DTE 25	46	5 gal	Pail	125341	**56MD26**
	46	1 gal	Box	125365	**56MD27**
DTE 26	68	5 gal	Pail	125342	**56MD28**
	68	1 gal	Box	125367	**56MD29**
DTE 10 Excel™	32	5 gal	Pail	126496	**4DNH3**
	46	5 gal	Pail	126497	**4DNH8**
EAL 224H	32	5 gal	Pail	102570	**4F971**
Aero™ HFA	15	5 gal	Pail	105426	**4DNJ3**
Circulating Oils					
DTE™ Light	32	5 gal	Pail	104743	**4ZF36**
DTE™ Medium	46	5 gal	Pail	101057	**4DNJ1**
DTE™ Heavy Medium	68	1 gal	Jug	100959	**4DNJ9**
	68	5 gal	Pail	104816	**4DNJ8**
DTE™ Heavy	100	1 gal	Jug	100544	**6Y781**
DTE™ Extra Heavy	150	1 gal	Jug	100760	**6Y782**

Way Oil
4ZF13

Spindle Oil
4F974

Machine Maintenance Oils

ExxonMobil

Way Oils—Dual-purpose hydraulic and way oils are recommended when extreme precision or slow speeds make it necessary to eliminate stick-slip or chatter. Approved by major machine tool builders such as Cincinnati Milacron, Okuma, and Bijur. Minimize wear. Good coolant separability extends oil life.

Spindle Oils—Light-bodied, light-colored oils offer long service life and excellent antifoam and rust protection. Resist oxidation and deposit formation. For high-speed spindle, plain, and antifriction bearings in textile machines, precision grinders, and other machine tools. Effective lubrication at high speeds. Approved against Cincinnati Milacron P specifications.

Description	ISO Viscosity Grade	Container Size	Container Type	Mfr. Model	Item No.
Way Oils					
Vactra No. 1	32	5 gal	Pail	100705	**5ZN07**
Vactra No. 2	68	5 gal	Pail	105480	**4ZF13**
Vactra No. 3	150	5 gal	Pail	100885	**45NM36**
Vactra No. 4	220	5 gal	Pail	103880	**4F969**
Spindle Oils					
Velocite No. 3	2	5 gal	Pail	103866	**5ZN14**
Velocite No. 6	10	1 gal	Jug	100848	**4F974**
Velocite No. 6	10	5 gal	Pail	105482	**4ZF38**
Velocite No. 10	10	5 gal	Pail	105481	**4F970**

Almo 525
4ZF22

Sta-Lube®
13P452

Bio-Air Tool™
2NMW6

ExxonMobil CRC 3-IN-ONE RENEWABLE LUBRICANTS

Air Tool Oils and Lubricants

Almo 525 Air Tool Oil—Pneumatic rock drill and tool lubricant formulated to provide a balance of adhesiveness, yet emulsifiable enough to pick up moisture carried in oil stream.

Sta-Lube® Air Tool Oil—Reduces rust, varnish, sludge and acids. Increases torque on pneumatic equipment.

Pneumatic Tool Oil—Quickly removes gum and sludge. Waterproof formula lubricates, protects, and prevents rust.

Bio-Air Tool™ and Bio-Food Grade™ Air Tool Lubricants—Designed for use with rotary and reciprocating air tools.

Description	Container Size	Container Type	Brand	Mfr. Model	Item No.
Almo 525 Air Tool Oil	32 oz	Bottle	Mobil	122977	**4ZF22**
Sta-Lube® Air Tool Oil	15 oz	Bottle	CRC	SL2531	**13P452**
Pneumatic Tool Oil	4 oz	Bottle	3-In-One	120046	**20LA87**
Bio-Air Tool™ Air Tool Lubricant	32 oz	Bottle	Renewable Lubricants	83111	**2NMW5**
Bio-Air Tool™ Air Tool Lubricant	1 gal	Jug	Renewable Lubricants	83113	**2NMW6**
Bio-Food Grade™ Air Tool Lubricant	32 oz	Bottle	Renewable Lubricants	87461	**5JGG4**
Bio-Food Grade™ Air Tool Lubricant	1 gal	Jug	Renewable Lubricants	87463	**5JGG5**

Air Tool Pneumatic Lubricant
44N761

Air Line Lubricant
40P263

Super Lube® Petrochem FOODSAFE® SUPPLIER DIVERSITY

Food Grade Air Tool/Air Line Oil and Lubricants

- NSF 1 Rated

Air Tool Pneumatic Lubricant—Oil's blended rust and corrosion inhibitors and a synthetic base fluid absorb water and minimize ice buildup and frost in air tools; reduce wear and allow operation in temperatures as low as -40°F.

Air Line Lubricants—For pneumatic equipment and air-operated tools in food, beverage, and packing operations. 40P261 is for medium equipment and handheld tools. 40P263 is for large equipment and jackhammers.

Description	Container Size	Container Type	Brand	Mfr. Model	Item No.
Air Tool Pneumatic Lubricant	4 oz	Bottle	Super Lube	12004	**44N761**
Air Line Lubricant, ISO 46	1 gal	Jug	Petrochem	FG-46-001	**40P261**
Air Line Lubricant, ISO 68	1 gal	Jug	Petrochem	FG-68-001	**40P263**

Petrochem FOODSAFE® SUPPLIER DIVERSITY

Food Grade Ammonia Refrigeration Compressor Oil

Clear semi-synthetic oil. Used with ammonia refrigeration systems in food service, beverage, and packaging applications to prevent rust and corrosion.

SAE Grade	ISO Viscosity Grade	Specific Gravity	NSF Rating	Max. Operating Temp.	Container Size	Item No.
20W	68	0.87	H1 Food Grade	445 °F	5 gal	**3NLL5**

ExxonMobil

Vacuum Pump Oil

Nondetergent straight mineral oil with low vapor pressure. Recommended for high-vacuum applications (0.08 Hg max. microns). Suitable for use with Busch, Leybold, Gast, Pneumotive, and Welch pumps.

ISO Viscosity Grade	Container Size	Container Type	Mfr. Model	Item No.
68	1 qt	Bottle	123027	**4ZF23**

DETEX® Spray Bottle

Empty trigger spray bottle with DETEX® metal and x-ray detectable plastic components provides convenient delivery of bulk-packaged cleaners, degreasers, and lubricants. Adjustable spray stream ensures proper application.

Container Size	Mfr. Model	Item No.
28 oz	57928	**29FX95**

Precision Spout Oiler

Flexible telescoping spout can reach up to 13" to lubricate hard-to-reach areas. Nondetergent SAE 10 turbine-grade oil for use on rotating and reciprocating motors, bearings, slides, and other equipment.

Container Size	Container Type	Mfr. Model	Item No.
4 oz	Bottle	79704	**4NA76**

Food Grade Machinery Oils

- NSF H1 Rated

CRC®—General-purpose lubricant is silicone-free, virtually odorless, and colorless. Will not harm metal, wood, plastic, or painted surfaces. Zero VOC. The Perma-Lock® integrated actuator will not detach.

LPS® with DETEX®—Features metal-detectable plastic components with DETEX®. Colorless, odorless, nonstaining oil loosens nuts and bolts and lubricates to reduce sticking, binding, and squeaking on bottling equipment, conveyors, food service racks, slicers, and other equipment. Safe on most surfaces. Silicone- free and VOC-free. No chlorinated solvents.

Sprayon® LU™700 Oil—Silicone-free lubricant loosens corrosion.

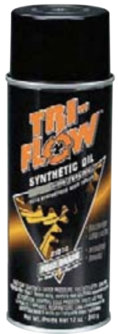
Tri-Flow™ Synthetic Oil with PTFE—Nonstaining oil does not emulsify in water.

Description	Container Size	Temp. Range	Mfr. Model	Item No.
CRC®	11 oz	32° to 300°F	03081	**2F132**
LPS® with DETEX®	11 oz	0° to 385°F	01316	**19C659**
Sprayon® LU™700 Food Grade Machinery Oil	10 oz	-20° to 450°F	SC0700000	**6KHE5**
Tri-Flow™ Synthetic Oil with PTFE	12 oz	-10° to 400°F	TF230101	**4TA90**

2F132

19C659

6KHE5



4TA90

Reusable Sprayer

Refillable sprayer uses compressed air to deliver a uniform, controlled mist spray of bulk lubricants, penetrants, degreasers, solvents, and cleaners. 80 to 150 psi operating pressure. Top-fill carbon steel canister with blue enamel coating. Not for use with paint.

Cap. (oz.)	Dia. (in.)	H (in.)	Item No.
32	4 in	7 ⅞ in	**31ER19**

Hand-Applied Metalworking Lubricants

Tapmatic® Edge Lube—Biodegradable bar is packaged in a cylinder for rotating or stationary cutting tools. Excellent for sawing applications, eliminating heat buildup and belt loading. Low toxicity. Compatible with oil and water systems. Safe on all metals.

Tapmatic® Edge Creme—Biodegradable paste cutting fluid can be applied to tools before tapping or reaming. Use when drilling, tapping blind holes, forming, bending, precoating fasteners, and lubricating rubber seals.

Gel Paste—Vegetable-based gel lubricant with workable texture for taps, drills, and cutting tools. Safe for ferrous and non-ferrous metals. A1 and T1.

Stick Lubricants—Designed to reduce heat buildup in belt, disc, or wheel grinding operations.

4KK73

4KK72

1MKN8

1MKN7

Container Size	Container Style	Physical Form	Color	Brand	Mfr. Model	Item No.
Tapmatic® Edge Lube						
13 oz	Tube	Solid	White	LPS	43200	**4KK73**
Tapmatic® Edge Cream						
10 oz	Tube	Paste	White	LPS	43100	**4KK72**
Gel Paste						
8 oz	Jar	Paste	Dark Blue	Accu-Lube	79030	**1MKN8**
Stick Lubricants						
2.2 oz	Jar	Solid	Light Blue	Accu-Lube	79042	**1MKN6**
13 oz	Tube	Solid	Light Blue	Accu-Lube	79045	**1MKN7**

Oil-Based
MQL™1000
3EAX8

Biodegradable
LB-2000
1MKL9

Synthetic
Multipurpose
4YPL5

Metalworking MQL Lubricants

Formulated to apply in very small quantities for near-dry machining, avoiding heat buildup, and reducing tool wear. Minimum Quantity Lubrication (MQL) technology is designed as a cleaner, less costly alternative to flood and mist coolant practices. MQL dispensing applicator systems are sold separately; see page 2461.

OIL-BASED

MQL™1000—Vegetable-based ester fluid is compatible with all microlube and micromist systems. Helps control buildup edge and sliding friction.

BIODEGRADABLE

FG-2000—Superior food-grade formula with nonchlorinated EP additives for moderate to heavy near-dry machining.

LB-2000—Great for sawing solids up to 6" dia. Fluid wiill not discolor parts.

LB-3000—Designed for medium-duty machining.

LB-5000—Light-viscosity lubricant will not stain during post-heat treating. Designed for medium machining on aluminum that requires post-heat treating.

SYNTHETIC

Multipurpose—Water-based formula with nonchlorinated extreme-pressure (EP) additives for moderate-duty machining, sawing, and cutting. It provides rapid heat dissipation.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Oil-Based					
MQL™1000					
1 gal	Jug	Yellow	Trim	MQL1000/1	**3EAX8**
5 gal	Pail	Yellow	Trim	MQL1000/5	**3EAX9**
54 gal	Drum	Yellow	Trim	MQL1000/54	**3EAY1**
Biodegradable, Food Grade					
FG-2000					
1 gal	Jug	Gold	Accu-Lube	FG2001	**6VDT1**
55 gal	Drum	Gold	Accu-Lube	FG2055	**6VDT2**
Biodegradable					
LB-2000					
1 gal	Jug	Blue	Accu-Lube	LB2000	**1MKL9**
55 gal	Drum	Blue	Accu-Lube	LB2055	**3ELP2**
LB-3000					
1 gal	Jug	Blue	Accu-Lube	LB3000	**1MKN1**
55 gal	Drum	Blue	Accu-Lube	LB3055	**3ELP3**
LB-5000					
1 gal	Jug	Blue	Accu-Lube	LB5000	**1MKN2**
55 gal	Drum	Blue	Accu-Lube	LB5055	**3ELP4**
Synthetic					
Multipurpose					
1 gal	Jug	Blue	Accu-Lube	LBSYNT01	**4YPL5**

3EAY2

Antifoam Additives

Nonsilicone defoamer is added tankside to control foam in water-miscible coolants, washing compounds, floor soaps, and more.

Container Size	Container Style	Mfr. Model	Item No.
2 qt	Bottle	TC184B/AD	**3EAY2**
5 gal	Pail	TC184B/5	**3EAY3**

Water-Soluble
TrueTap® Aqua
13P446

Water-Soluble
Tapmatic® AquaCut
2C649

Biodegradable
LB-2000
1MKN9

Biodegradable
Bio-General
Purpose™ Cut 40
2VXK6

Biodegradable
Eco-Oil
406F88

Water-Soluble and Biodegradable Cutting Fluids

TrueTap® Aqua—Nonaerosol fluid offers excellent cooling and lubrication for tap and drill applications. It is formulated as a replacement for solvent- or oil-based fluids.

Tapmatic® AquaCut—Water-based fluid is compatible with steel, aluminum, and most other metals, except magnesium. Corrosion inhibitors prevent flash rusting. Nonflammable.

Formula 1 Aqueous—EP-X3® additive gives performance boost. Proprietary water base in Aqueous is noncorrosive.

LB-2000—Environmentally safe oil is hand-applied for drilling, tapping, and reaming. Safe for all metals.

Tapmatic® Natural—Nontoxic, nonhazardous formula eliminates galling and seizing. Fluid does not contain sulfur, chlorine, chlorinated solvents, water, mineral oil, or inactive fillers.

Bio-General Purpose™ Cut 40—Light- to medium-duty oil is formulated to reduce smoke and mist.

Bio-SynXtra™—Heavy-duty oil reduces smoke and mist.

Bio-Mist™ EP—Extreme-pressure lube for misting cutting tools working nonferrous metals, ferrous alloys, mild steel, and cast iron.

Eco-Oil—Natural oil base resists smoking and fuming.

ProTap—Formula is free of all regulated chemicals. Highly effective on all metals.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Water-Soluble					
TrueTap® Aqua					
16 oz	Bottle	Clear Blue	CRC	03440	**13P446**
Tapmatic® Aquacut					
16 oz	Bottle	Turquoise	LPS	01216	**2C649**
Formula 1 Aqueous					
12 oz	Aerosol	Amber	Tap Magic	50012QL	**12N691**
16 oz	Bottle	Amber	Tap Magic	50016Q	**1MCU6**
Biodegradable					
LB-2000					
8 oz	Spray Bottle	Dark Blue	Accu-Lube	79026	**1MKN9**
Tapmatic® Natural					
16 oz	Bottle	Green	LPS	44220	**4KK74**
Bio-General Purpose™ Cut 40					
1 gal	Jug	Yellow	Renewable Lubricants	86833	**2VXK6**
5 gal	Pail	Yellow	Renewable Lubricants	86834	**2VXK7**
Bio-SynXtra™					
1 gal	Jug	Yellow	Renewable Lubricants	86873	**2VXK8**
Bio-Mist™ EP					
1 gal	Jug	Yellow	Renewable Lubricants	86733	**2NMW9**
Eco-Oil					
16 oz	Bottle	Blue	Tap Magic	60016C	**406F88**
ProTap					
12 oz	Aerosol	Yellow	Tap Magic	30012PL	**1MCU9**
16 oz	Bottle	Yellow	Tap Magic	30016P	**4ZF07**
1 gal	Jug	Yellow	Tap Magic	30128P	**1MCU8**
5 gal	Pail	Yellow	Tap Magic	30640P	**1MCV1**

Oil-Based
Cutting Oil
2F146

Oil-Based
Tapmatic®
#1 Gold
2F021

Oil-Based
MobilMet® 766
1MUC3

Oil-Based
LU™ 208
2W755

Oil-Based
EP-Xtra®
4F963

Semisynthetic
MicroSol® 585XT
5CEX6

Synthetic
MIST
3EAX5

Oil-Based and Synthetic Cutting Fluids

OIL-BASED

Cutting Oil—Thread-cutting lubricant for use on all types of ferrous and nonferrous metals. Sulfur-free, low-odor formula.

TrueTap® HD—For heavy-duty use in severe applications. Use to tap, thread, drill, saw, shear, turn, and ream metal parts, pipes, conduit, screws, housings, aluminum sheets, stainless steel and exotic metals.

Tapmatic® #1 Gold—Protects and lubricates, reducing friction and eliminating chip welding. Safe to use on all metals.

Tapmatic® TriCut®—For hard-to-machine metals.

Mobilcut™ 100—Mixes with different waters to form stable emulsions for cutting and grinding operations.

MobilMet® 426—Automatic operation on materials with a Brinell hardness up to 300.

MobilMet® 766—For tapping, threading, milling, gear shaving and shaping, broaching, planing, parting-off, and automatic lathe.

LU™ 208—Friction-reducing triglycerides offers fluid film protection in all ferrous/nonferrous machining applications.

Aluminum—For use on aluminum.

EP-Xtra®—Yields microfine finish while preventing rust and corrosion.

Xtra-Thick®—Fluid clings to the workpiece to stay in place during high-speed rotation.

Xtra-Foamy®—Allows gauging of application rate and fluid presence.

Trim® Tap Heavy—For taps ½" dia. and smaller and helps reduce rubbing of tool flank.

Trim® OM 287—Low odor oil for removing metal. Will not stain and has a lower viscosity, allowing for better cooling.

Trim® Tap Light—For taps ¼" dia. and smaller and helps reduce rubbing of tool flank.

SEMISYNTHETIC

Trim® MicroSol® 585XT—Nonchlorinated formula helps extend sump life. For machining, grinding gray iron, and titanium alloys.

Trim® MicroSol® 685—Microemulsion is compatible with aluminum, magnesium and copper alloys, cast iron, steels, stainless steels, plastics, and composites.

Trim® SC230—Combines synthetic coolant and synthesized oil that helps reject tramp oil and improves sump life. Deliver good flushing action into machine's chip removal system.

Trim® SC620—Low foam and low odor fluid is for machining and grinding.

SYNTHETIC

Trim® MIST—Low-odor fluid works well in cutter/grinder operations.

WATER BASED

Trim® Sol SF—Siloxane free formula helps control edge build-up. Nongumming film protection. Residue is easily removed with water.

Trim® C270CG—Provide corrosion inhibition for tapping and reaming operations without chlorine or sulfur based additives.

Trim® C276—Low foam and mist fluid leaves a soft film protection on bare metal parts of machine tools. Easily washes off with coolant solution.

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
Oil-Based					
Cutting Oil					
12 oz	Bottle	Brown	CRC	14050	**2F146**
1 gal	Bottle	Brown	CRC	14051	**4JB48**
TrueTap® HD					
16 oz	Bottle	Amber	CRC	03400	**36F363**
Tapmatic® #1 Gold					
11 oz	Aerosol	Gold	Tapmatic	40312	**33MJ78**
16 oz	Bottle	Gold	LPS	40320	**2F021**
1 gal	Jug	Gold	LPS	40330	**2F023**
Tapmatic® Tricut					
16 oz	Bottle	Dark Brown	LPS	05316	**5JG96**
Mobilcut™ 100					
1 gal	Jug	Yellow	Mobil	121095	**4FVD9**
MobilMet® 426					
5 gal	Pail	Brown	Mobil	103801	**6HHD1**
MobilMet® 766					
5 gal	Pail	Clear	Mobil	103323	**1MUC3**
LU™ 208					
12 oz	Aerosol	Light Amber	Sprayon	SC0208000	**2W755**
14 oz	Spray Bottle	Light Amber	Sprayon	SC0208LQ0	**4GUP3**
Aluminum					
12 oz	Aerosol	Light Yellow	Tap Magic	20012AL	**5HH10**
16 oz	Bottle	Light Yellow	Tap Magic	20016A	**4R818**
1 gal	Jug	Light Yellow	Tap Magic	20128A	**4R820**
5 gal	Pail	Light Yellow	Tap Magic	20640A	**1MCV2**
EP-XTRA®					
4 oz	Bottle	Yellow	Tap Magic	10004E	**6Y645**
12 oz	Aerosol	Yellow	Tap Magic	10012EL	**5HD99**
16 oz	Bottle	Yellow	Tap Magic	10016E	**4F963**
1 gal	Jug	Yellow	Tap Magic	10128E	**6Y646**
5 gal	Pail	Yellow	Tap Magic	10640E	**6Y647**
Xtra-Thick®					
16 oz	Bottle	Dark Liquid	Tap Magic	70016T	**1MCU3**
1 gal	Jug	Dark Liquid	Tap Magic	70128T	**1MCU4**
Xtra-Foamy®					
17 oz	Aerosol	Dark Liquid	Tap Magic	80017FL	**1MCU5**
Tap Heavy					
16 oz	Bottle	Amber	Trim	TAPHVY/PT	**425L09**

Container Size	Container Style	Color	Brand	Mfr. Model	Item No.
OM 287					
1 gal	Jug	Brown	Trim	OM287/1	**425K94**
Tap Light					
1 gal	Jug	Amber	Trim	TAPLT/1	**425L10**
Semisynthetic					
MicroSol® 585XT					
1 gal	Jug	Amber	Trim	MS585XT/1	**5CEX5**
5 gal	Pail	Amber	Trim	MS585XT/5	**5CEX6**
54 gal	Drum	Amber	Trim	MS585XT/54	**5CEX7**
MicroSol® 685					
1 gal	Jug	Amber	Trim	MS685/1	**3EAZ1**
5 gal	Pail	Amber	Trim	MS685/5	**3EAZ2**
54 gal	Drum	Amber	Trim	MS685/54	**3EAZ3**
SC230					
5 gal	Pail	Blue	Trim	SC230/5	**425K99**
1 gal	Jug	Blue	Trim	SC230/1	**425K98**
SC620					
1 gal	Jug	Yellow	Trim	TRIM SC620	**36CF83**
5 gal	Pail	Yellow	Trim	TRIM SC620	**36CF84**
54 gal	Drum	Yellow	Trim	TRIM SC620	**36CF85**
Synthetic					
MIST					
1 gal	Jug	Light Yellow	Trim	MIST/1G	**3EAX5**
5 gal	Pail	Light Yellow	Trim	MIST/5	**3EAX6**
54 gal	Drum	Light Yellow	Trim	MIST/54	**3EAX7**
Water Based					
SOL® sF					
5 gal	Pail	Milky White	Trim	SOLSF/5	**425L03**
1 gal	Jug	Milky White	Trim	SOLSF/1	**425L02**
C270CG					
5 gal	Pail	Water White	Trim	C270CG/5	**425K87**
1 gal	Jug	Water White	Trim	C270CG/1	**425K86**
C276					
1 gal	Jug	Colorless to Pale Yellow	Trim	C276/1	**425K90**
5 gal	Pail	Colorless to Pale Yellow	Trim	C276/5	**425K91**

Semisynthetic
E206
3EAU9

Synthetic
PowerSaw
5YP62

Water-Soluble
WS-5050
1MKL1

Water-Soluble, Biodegradable
Bio-Metal Cool™ GP
2VXN6

Machining Coolants

SEMISYNTHETIC

SS-405L—For machining or grinding.

ULTRACUT® 375R—Compatible with CNC machining.

MicroSol® 690XT—Perform in high-pressure applications, offering cooling and mechanical lubricity.

E206—Effective on ferrous and nonferrous metals.

E850—Provide corrosion protection for ferrous and nonferrous metals.

E925—Deliver exceptional surface finish.

SC520—For high-speed milling and turning operations.

VP Series—Resistant to ionic shock and hard water. For high pressure coolant applications.

VP Tech P—High content mineral oil with excellent bio-resistance.

Aerotech B—For use in aluminum machining and steel applications. Resistant to ionic shock and hard water.

VP Tap—For easy cleaning of parts and tools.

SILICONE

Remove oily residue, soap deposits, and scum that reduce coolant life span.

SYNTHETIC

Carbide PowerGrind—Prevent chemical damage to carbide in grinding applications.

G-25J—For Blanchard grinding of cast iron and other ferrous metals.

G-1066D—For diamond wheel grinding and slicing.

PowerSaw—For sawing operations in moderate to heavy-duty application.

PowerChip 2000—Works well in hard-water areas.

SN-100A—Resist bacterial growth, fungal growth, and rancidity.

Vytron N—General-purpose formula prevents rancidity.

C115—For cast iron and mild steels.

C270—Use in form grinding, drilling, tapping, and reaming operations.

C350—Provide corrosion resistance on aerospace aluminum alloys, titanium, Inconel®, brass, and high-strength alloy steels.

VP Series—For moderate and heavy machining.

WATER-SOLUBLE

WS-11 Nonchlorinated—For use on all metals.

WS-5050—Compatible with CNC machining.

ULTRACUT® Aero—For use with aluminum, titanium, stainless steel, Inconel®, and other metals.

ULTRACUT® Pro and Pro CF—ULTRACUT Pro offer resistance to fungus and bacteria. ULTRACUT Pro CF provide maximum bio-resistance.

VP 650P——For use in manual operations where lubrication is required.

K-5-P—Dislodge difficult to reach sludge and containments.

Val-U-Clean—Clean the sump.

WATER-SOLUBLE, BIODEGRADABLE

Bio-Metal Cool™ GP—For use with ferrous and nonferrous metals.

Container Size	Container Style	Color	Brand	Item No.
Semisynthetic				
AEROTECHB				
5 gal	Pail	Amber	Valcool	444C88
55 gal	Drum	Amber	Valcool	444C89
220 gal	IBC Tote	Amber	Valcool	444C90
275 gal	IBC Tote	Amber	Valcool	444C91
E206				
1 gal	Jug	Dark Blue	Trim	3EAU8
5 gal	Pail	Dark Blue	Trim	3EAU9
54 gal	Drum	Dark Blue	Trim	3EAV1
E850				
1 gal	Jug	Amber	Trim	5CEY1
5 gal	Pail	Amber	Trim	5CEY2
54 gal	Drum	Amber	Trim	5CEY3
E925				
1 gal	Jug	White	Trim	48UE72
5 gal	Pail	White	Trim	48UE73
54 gal	Drum	White	Trim	48UE74
MicroSol® 690XT				
1 gal	Jug	Amber	Trim	45JY86
5 gal	Pail	Amber	Trim	45JY85
54 gal	Drum	Amber	Trim	45JY84
SC520				
54 gal	Drum	Light Blue	Trim	5CEY0
SS-405L				
5 gal	Pail	Amber	Rustlick	1E168
55 gal	Drum	Amber	Rustlick	3ELL8
Ultracut 375R				
5 gal	Pail	Amber	Rustlick	1MKL4
55 gal	Drum	Amber	Rustlick	3ELL6
VP690				
5 gal	Pail	Amber	Valcool	444C76
55 gal	Drum	Amber	Valcool	444C77
220 gal	IBC Tote	Amber	Valcool	444C78
275 gal	IBC Tote	Amber	Valcool	444C79
VP700P				
5 gal	Pail	Blue	Valcool	444D16
55 gal	Drum	Blue	Valcool	444D17
55 gal	Drum	Amber	Valcool	444D18
220 gal	IBC Tote	Blue	Valcool	444D19
220 gal	IBC Tote	Amber	Valcool	444D20
275 gal	IBC Tote	Blue	Valcool	444D21
275 gal	IBC Tote	Amber	Valcool	444D22
VP800P				
5 gal	Pail	Blue	Valcool	444D23
55 gal	Drum	Blue	Valcool	444D24
220 gal	IBC Tote	Blue	Valcool	444D25
220 gal	IBC Tote	Amber	Valcool	444D26
275 gal	IBC Tote	Blue	Valcool	444D27
275 gal	IBC Tote	Amber	Valcool	444D28
VP850				
220 gal	IBC Tote	Amber	Valcool	444C80
275 gal	IBC Tote	Amber	Valcool	444C81
VP855P				
5 gal	Pail	Blue	Valcool	444D29
55 gal	Drum	Blue	Valcool	444D30
220 gal	IBC Tote	Blue	Valcool	444D31
275 gal	IBC Tote	Blue	Valcool	444D32
VP860P				
5 gal	Pail	Blue	Valcool	444D33

Container Size	Container Style	Color	Brand	Item No.
5 gal	Pail	Amber	Valcool	444D34
55 gal	Drum	Blue	Valcool	444D35
55 gal	Drum	Amber	Valcool	444D36
VPTap				
5 gal	Pail	Blue	Valcool	444D60
16 oz	Bottle	Blue	Valcool	444D59
55 gal	Drum	Blue	Valcool	444D61
VPTECHP				
5 gal	Pail	Blue	Valcool	444C82
55 gal	Drum	Blue	Valcool	444C83
220 gal	IBC Tote	Blue	Valcool	444C84
220 gal	IBC Tote	Amber	Valcool	444C85
275 gal	IBC Tote	Blue	Valcool	444C86
275 gal	IBC Tote	Amber	Valcool	444C87
Silicone				
DEFOAMERP				
5 gal	Pail	White	Valcool	444C92
Synthetic				
C115				
1 gal	Jug	Pale Yellow	Trim	3EAW5
5 gal	Pail	Pale Yellow	Trim	3EAW6
54 gal	Drum	Pale Yellow	Trim	3EAW7
C270				
1 gal	Jug	Colorless to Pale Yellow	Trim	3EAW8
5 gal	Pail	Colorless to Pale Yellow	Trim	3EAW9
54 gal	Drum	Colorless to Pale Yellow	Trim	3EAX1
C350				
1 gal	Jug	Colorless to Pale Yellow	Trim	3EAX2
5 gal	Pail	Colorless to Pale Yellow	Trim	3EAX3
54 gal	Drum	Colorless to Pale Yellow	Trim	3EAX4
Carbide PowerGrind				
55 gal	Drum	Opaque Green	Rustlick	3ELN6
Carbide PowerGrind				
5 gal	Pail	Opaque Green	Rustlick	5YP55
G-1066D				
5 gal	Pail	Orange, Yellow	Rustlick	1C875
55 gal	Drum	Orange, Yellow	Rustlick	3ELN4
G-25J				
5 gal	Pail	Dark Green	Rustlick	1C877
55 gal	Drum	Dark Green	Rustlick	3ELN5
PowerChip 2000				
5 gal	Pail	Dark Blue	Rustlick	5YP64
55 gal	Drum	Dark Blue	Rustlick	3ELL9
PowerSaw				
5 gal	Pail	Dark Blue	Rustlick	5YP62
55 gal	Drum	Dark Blue	Rustlick	3ELN1
SN-100A				
5 gal	Pail	Blue	Rustlick	1C199
55 gal	Drum	Blue	Rustlick	3ELN2
VP910P				
5 gal	Pail	Blue	Valcool	444D37
55 gal	Drum	Blue	Valcool	444D38
220 gal	IBC Tote	Blue	Valcool	444D39
220 gal	IBC Tote	Amber	Valcool	444D40

Container Size	Container Style	Color	Brand	Item No.
275 gal	IBC Tote	Blue	Valcool	444D41
275 gal	IBC Tote	Amber	Valcool	444D42
VP920P				
5 gal	Pail	Blue	Valcool	444D43
55 gal	Drum	Blue	Valcool	444D44
220 gal	IBC Tote	Blue	Valcool	444D45
220 gal	IBC Tote	Amber	Valcool	444D46
275 gal	IBC Tote	Blue	Valcool	444D47
275 gal	IBC Tote	Amber	Valcool	444D48
VP930P				
5 gal	Pail	Amber	Valcool	444D49
55 gal	Drum	Amber	Valcool	444D50
220 gal	IBC Tote	Amber	Valcool	444D51
275 gal	IBC Tote	Amber	Valcool	444D52
VP940P				
5 gal	Pail	Blue	Valcool	444D53
55 gal	Drum	Blue	Valcool	444D54
220 gal	IBC Tote	Blue	Valcool	444D55
220 gal	IBC Tote	Amber	Valcool	444D56
275 gal	IBC Tote	Blue	Valcool	444D57
275 gal	IBC Tote	Amber	Valcool	444D58
Vytron-N				
1 gal	Jug	Turquoise	Rustlick	1MKN4
5 gal	Pail	Turquoise	Rustlick	1MKN3
55 gal	Drum	Turquoise	Rustlick	3ELN3
Water-Soluble				
K-5-P				
1 gal	Bottle	Purple	Valcool	444C95
55 gal	Drum	Purple	Valcool	444C94
Ultracut Aero				
5 gal	Pail	Light Brown	Rustlick	6VDP4
Ultracut Pro				
5 gal	Pail	Golden Yellow, Light Brown	Rustlick	6VDP6
Ultracut Pro CF				
5 gal	Pail	Golden Yellow, Light Brown	Rustlick	6VDP8
Val-U-Clean				
1 gal	Bottle	Green	Valcool	444C98
55 gal	Drum	Green	Valcool	444C97
VP650P				
5 gal	Pail	Blue	Valcool	444C70
55 gal	Drum	Blue	Valcool	444C71
220 gal	IBC Tote	Blue	Valcool	444C72
220 gal	Drum	Amber	Valcool	444C73
275 gal	IBC Tote	Blue	Valcool	444C74
275 gal	IBC Tote	Amber	Valcool	444C75
WS-11				
5 gal	Pail	Dark Brown	Rustlick	1C847
55 gal	Drum	Dark Brown	Rustlick	3ELL5
WS-5050				
1 gal	Jug	Blue	Rustlick	1MKL1
5 gal	Pail	Blue	Rustlick	1C853
Water-Soluble, Biodegradable				
Bio-Metal Cool™ GP				
1 gal	Jug	Yellow	Renewable Lubricants	2VXN6
5 gal	Pail	Yellow	Renewable Lubricants	2VXN7

LOC-LINE®

Acetal Copolymer Flexible Hose System Components

6Y669

6Y664

6Y689

6Y710

Description	Mfr. Model	Item No.	Pkg. Qty.
¼ in Hose Inside Dia. (In.)			
Assembly Pliers	78001	**3P832**	1
Assembly Pliers Set	78003	**1DYB1**	1
Hose Segments 5 ¾" Long	41401	**3P817**	2
Hose Segment 5¾ in Length	49420	**6Y679**	1
Hose Sample Kit	40413	**3P816**	1
Extended Element 3.69 in Long	41476	**6Y673**	4
Element Clamp w/Screws	49446	**6Y684**	20
Nozzle Rama Pack	41490	**1DXT3**	1
Flat Nozzle Assortment Pack	41487	**1DXR9**	1
Circle Flow Assembly	41479	**3P834**	1
¹⁄₁₆" Round Nozzle	41402	**6Y657**	4
⅛" Round Nozzle	41403	**3P821**	4
¼" Round Nozzle	41404	**3P820**	4
Flat Slot Nozzle 0.060 in Slot Height	41484	**1DXR6**	4
Flat 5 Hole Nozzle 0.060 in Hole Diameter	41485	**1DXR7**	4
Flat 7 Hole Nozzle 0.040 in Hole Diameter	41486	**1DXR8**	4
90 Degrees Nozzle Assortment Kit	41474	**6Y671**	1
90 Degrees Nozzle ¹⁄₁₆ in Opening	41470	**6Y667**	4
90 Degrees Nozzle ⅛ in Opening	41471	**1DXR3**	4
¼", 90 Degree Nozzle	41472	**6Y669**	4
Spray Bar Nozzle ¼ in	41473	**6Y670**	2
Straight Flow Nozzle	41489	**1DXT2**	2
Swivel Nozzle 75 0.075 in Hole Diameter	41488	**1DXT1**	2
Swivel Nozzle, 0.040 Diameter Holes	41481	**6Y677**	2
Swivel Nozzle, 0.060 Diameter Holes	41482	**6Y678**	2
Flare Nozzle	41407	**3P818**	2
	49427	**6Y680**	20
⅛" NPT Connector	41405	**6Y658**	4
¼" NPT Connector	41406	**3P819**	4
BSPT Connector ¼ in	41418	**6Y666**	4
90 Degrees Elbow	41415	**6Y663**	2
Elbow Fitting	49435	**6Y682**	20
T Fitting	41416	**6Y664**	2
Y Fitting	41408	**3P822**	2
Double Socket	41409	**6Y659**	4
¼" Socket x ⅛" FNPT ¼ in Socket to ⅛ in FNPT	41411	**6Y660**	4
Flare Nut Adapter	41414	**6Y662**	4
Male NPT Valve	21192	**3P830**	2
Female NPT Valve	21193	**6Y686**	2
In-line Valve	21194	**3P831**	2
In-Line Valve	29454	**5HK06**	10
In-Line Check Valve	21191	**6Y685**	2
Magnetic Base Manifold	40400	**5HK11**	1
Magnetic Base Manifold with Hose	40463	**5HK12**	1
Modular Manifold	21199	**1DXZ8**	1
Total Flow Control Manifold	21198	**5HK03**	1
Double Socket	49429	**20Y170**	20
Side Flow Nozzle 6 Holes 0.10 dia	49443	**20Y179**	20
End Cap	49447	**20Y180**	20

Description	Mfr. Model	Item No.	Pkg. Qty.
Flat Slot 60 Nozzle .060 in x .44 Wide	49452	**20Y184**	20
50 Ft. Coil Hose	49421	**20Y167**	1
90 Degrees Nozzle ¼ in Round Opening	49441	**20Y178**	20
Element Clamp w/Screws	41477	**6Y674**	4
Male NPT Valve	29452	**5HK05**	10
½ in Hose Inside Dia. (In.)			
Double Socket	51811	**1DXU1**	4
Element Clamp w/Screws	51834	**6Y704**	4
Male NPT Valve ½ in NPT	32092	**6Y708**	2
50 Ft. Coil Hose 50 Feet	59861	**1DYA9**	1
⅜" Round Nozzle	51802	**3P827**	4
½" Round Nozzle	51803	**6Y687**	4
Flat Slot Nozzle 0.080 in Slot Height	51840	**1DXU5**	4
90 Degrees Nozzle ⅜ in Opening	51829	**1DXU3**	4
90 Degrees Nozzle ½ in Opening	51830	**1DXU4**	4
Straight Flow Nozzle	51847	**1DXW3**	2
	51848	**1DXW4**	2
2 ½" Flare Nozzle	51809	**3P829**	2
⅜" NPT Connector	51804	**3P828**	4
½" NPT Connector	51805	**3P826**	4
BSPT Connector ½ in	51827	**6Y697**	4
Magnetic Base	51846	**1DXW2**	1
Y Reducer	51822	**6Y692**	2
½" to ¼" Adapter	51821	**6Y691**	2
Assembly Pliers	78002	**3P833**	1
Hose Assembly, 13" with Fittings	50813	**3P823**	1
Hose Segments 5 ¾" Long	51801	**3P824**	2
Flare Nozzle	51807	**3P825**	2
Circle Flow Assembly	51837	**3P835**	1
¼" Round Nozzle	51806	**6Y688**	4
Y Fitting	51808	**6Y689**	2
90 Degrees Elbow	51824	**6Y694**	2
T Fitting	51825	**6Y695**	2
Spray Bar Nozzle	51831	**6Y701**	2
90 Degrees Nozzle Assortment Kit	51832	**6Y702**	1
In-Line Check Valve	32091	**6Y707**	2
Female NPT Valve	32093	**6Y709**	2
In-line Valve	32094	**6Y710**	2
Hose Segment 5½ in L	59860	**6Y711**	1
Swivel Nozzle 75	51845	**1DXW1**	2
Nozzle Rama Pack	51849	**1DXW5**	1
Male NPT Valve ½ in NPT	39852	**1DYA5**	10
Total Flow Control Manifold	32098	**5HK07**	1
In-Line Valve	39854	**5HK10**	10
Flat Nozzle Assortment Pack	51844	**1DXU9**	1
Double Socket	59872	**20Y228**	20
Flat Slot Nozzle 0.125 in Slot Height	51841	**1DXU6**	4
Flat 5 Hole Nozzle 0.125 in Hole Diameter	51842	**1DXU7**	4
Flare Nozzle 1 ¼ in x .165 Slot	59867	**20Y223**	20
Element Clamp w/Screws	59884	**20Y239**	20

Stumpy Spout Lid G3515

OilSafe

Oil Containers and Pumps

Color-coded system manages lubricants from bulk storage to the correct point of use. Fully interchangeable drums and lids. Pumps deliver 1L per about 12 strokes. Fit 3L, 5L, or 10L drums.

Description	Item No.
Fluid Storage Container	
1.5 L	**3REL1**
2 L	**3REL2**
3 L	**3REL3**
5 L	**3REL4**
10 L	**3REL5**

Item	▶CHOOSE: Color	Item No.
Lids		
Storage Lids	Beige, Black, Blue, Dark Green, Gray, Mid Green, Orange, Purple, Red, Yellow	**G3511**
Utility Lids		**G3512**
Stretch Spout Lids		**G3513**
Mini Spout Lids		**G3514**
Stumpy Spout Lids		**G3515**
Pumps		
Premium Pumps	Beige, Black, Blue, Dark Green, Gray, Mid Green, Orange, Purple, Red, Yellow	**G3644**

Description	Item No.
Accessories	
Stretch Extension Hose With 0.5 in Spout Outlet	**3REL7**
Stumpy Extension Hose With 1 in Spout Outlet	**3REL8**
Pump Reducer Nozzle 0.25 in Outlet	**3REL9**

TRICO Accu-Lube

Lubricant Dispensing Systems

SPRAY COOLING SYSTEMS

Portable Spray Unit—Includes 7" flexible nozzle, 60-lb. magnetic base, and a 7-ft. siphon line with a 40-micron stainless steel filter.

1-Qt. Lil-Mister®—Features liquid level gauge and separate air and coolant controls. 5-ft. brass line. Includes mounting bracket and 6" straight brass nozzle. For light-duty machining operations.

1-Gal. Spraymaster®, Needle Valve—Feature liquid level gauge and individual air and coolant controls on the unit. Brass armored lines and straight brass nozzles.

1-Gal. Spraymaster® II, Solenoid—Coolant is delivered in an adjustable spray using independent air and liquid controls. Brass armored delivery lines. 110V. 7" flexible plastic nozzles with controls at the nozzle.

DROP DISPENSERS

Air-operated systems dispense lubricant to cutting tools. Solenoid-equipped model 6Y841 allows for remote shutoff and machine synchronization. Include 18" Loc-Line® nozzles, 6-ft.-long lines, and 16-oz. capacity reservoirs.

LUBRICANTS

Designed for use with Micro-Drop dispensing systems or other microlubrication equipment. (Not intended for mist-coolant systems.) 1-gal. container.

MQL APPLICATORS

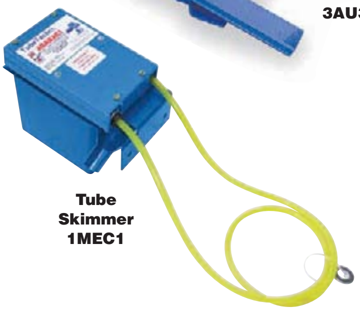
Air-operated applicators dispense lubricant to the cutting edge without creating a mist, for near-dry machining and sawing applications. Positive displacement pump with pneumatic timing delivers lube smoothly. Air and liquid flow are easily adjusted. Environmentally safe, minimum-quantity application eliminates hazards from misting. 10-oz. reservoir. Junior Applicators include magnetic base nozzle and magnetic mount. Not for use with synthetic coolants; use MQL Lubricants,

Portable Spray Unit 6Y846

MQL Junior Applicator 1MKP4

Description	No. of Lines	Control Type	Item No.
Trico			
Spray Cooling Systems			
Portable Spray Unit	1	Needle Valve	**6Y846**
1 qt Lil-Mister®	1	Needle Valve	**6Y845**
1 gal Spraymaster®, Stainless Steel Reservoir	1	Needle Valve	**6Y847**
	2	Needle Valve	**6Y848**
1 gal. Spraymaster®, Plastic Reservoir	1	Needle Valve	**5JG71**
	2	Needle Valve	**5JG72**
1 gal. Spraymaster® II	2	Solenoid	**5JG74**
Drop Dispensers			
Micro-Drop® Dispenser	2	Manual	**6Y839**
	2	Solenoid-120V	**6Y841**
Lubricants			
Micro-Drop® Advanced Synthetic Metal Cutting Lubricant, 1 gal			**6Y842**
			6Y843
Accu-Lube			
MQL Applicators			
Junior Production Applicator w/1 Nozzle	—	Pneumatic	**1MKP3**
Junior Production Applicator w/2 Nozzles	—	Pneumatic	**1MKP4**
Band Saw Applicator w/N Nozzle	—	Pneumatic	**1MKP6**

Disk Skimmer
3AU32



Tube
Skimmer
1MEC1

Belt
Skimmer
3BU53

Belt
Skimmer
29UJ11

Belt
Skimmer
6Y757

Portable
Skimmer
6Y752

Magnet-Mount Skimmer
45AP79

ABANAKI OIL SKIMMERS

Oil Skimmers

These skimmers are for removing oil from the surface of coolant or water. Ideal for machining centers, parts washers, and sumps.

DISK SKIMMERS

Remove up to 1½ gph. Boomerang blades wipe more oil. 110V, 1-phase, 60 Hz motor. 12" disk.

3AU32—Housing and frame are made of polymer.

3EJF5—Housing and frame are made of carbon steel.

TUBE SKIMMERS

6KYV8—Oil Viper is the highest capacity industrial tube skimmer. It removes up to 100 gph using a ¾"-dia. tube that floats on the surface of the water to collect oil. 360° wiper cleans tube completely. Carbon steel construction. 110/220V, 1-phase, ⅓ HP, 60 Hz motor. Tubes 6KYV9 through 6KYW3 sold separately, see Grainger.com.

TubeTastic!™—Light capacity, ⅜"-dia. tube collects up to 1½ gph. Mounts to side of tank. 110V, 1-phase, 60 Hz motor. Tubes 1MEC2 thru 1MEC6 sold separately, see Grainger.com.

BELT SKIMMERS

3BU53 through 3BU56—Collect up to 1 gph. Made of polymer. Include 1" wide elastomer belt. 110V, 1-phase, 60 Hz motor.

29UJ11 through 29UJ14—Collect up to 1 gph. Include 1"W synthetic belt. Motor can use 110V outlet or can be directly wired to 12/24V power.

6Y757 through 6Y760 —For use in coolant sumps and parts washers. Include 1"W stainless steel belt and 24-hr. timer. 110V, 1-phase, 60 Hz motor. 3-ft. discharge hose. Can be used with Decanter 6Y756, sold separately.

6Y752 and 6Y753—Remove up to 6 gph. For use in larger coolant sumps and parts washers. Include 2" wide stainless steel belt. Housing and frame are made of polymer. 110V, 1-phase, 60 Hz motor.

MAGNET-MOUNT OIL SEPARATOR

Pumps oil-laden coolant through a filter media chamber which traps debris and tramp oil. The oil is drained away and clean coolant is continuously returned to the coolant sump. Operates at 2.8 gpm. Requires Electric pump and float 45AP80 or Pneumatic pump float 45AP81, sold separately.

ACCESSORIES

6KYV5 has a 0% to 32% Brix range.

6KYV6 has 0% to 10% Brix range.

6KYV7 has a 0 to 14 pH range.

Description	Reach	Max. Temp. (°F)	Mfr. Model	Item No.
Disk Skimmers				
Oil Skimmer	4 in	160°	SCD12	**3AU32**
Skimmer	4 in	160°	SMD12	**3EJF5**
Tube Skimmer				
Oil Skimmer	100 ft	160°	SVIPER01	**6KYV8**
TubeTastic!™	8 in to 24 in	140°	STUBE1	**1MEC1**
Belt Skimmers				
Oil Skimmer	8 in	140°	SLB-08	**3BU53**
	12 in	140°	SLB-12	**3BU54**
	18 in	140°	SLB-18	**3BU55**
	24 in	140°	SLB-24	**3BU56**
UltraMini Oil Skimmer	8 in	140°	SMDC-08	**29UJ11**
	12 in	140°	SMDC-12	**29UJ12**
	18 in	140°	SMDC-18	**29UJ13**
	24 in	140°	SMDC-24	**29UJ14**
Oil Skimmer	6 in	212	SMMS1-06	**6Y757**
Stainless Steel Belt Oil Skimmer	12 in	212	SMMS1-12	**6Y758**
Oil Skimmer	18 in	212	SMMS1-18	**6Y759**
	24 in	212	SMMS1-24	**6Y760**
Tote It® Portable Oil Skimmers	24 in	212	ST2CR-30	**6Y752**
	54 in	212	ST2CR-60	**6Y753**
Magnet Mount Oil Separator				
Oil Separator	8 ft	—	OC300	**45AP79**
Accessories				
Refractometer, For Use With Coolants And Cleaners, Aluminum Construction			R1-A	**6KYV5**
			R1-B	**6KYV6**
pH Tester			PH-A	**6KYV7**
Coolant Mixer			EMIX200	**3EJF6**
For Tube Skimmers				
Drive Finger, For use with No. 6KYV8			PTUBE6-07B	**6KYW4**
Wiper, For use with No. 6KYV8			PTUBE6-09B	**6KYW5**
Tube, For use with No. 6KYV8, 20 Ft Long			BTUBE6-0480	**6KYV9**
Tube, For use with No. 6KYV8, 30 Ft Long			BTUBE6-0720	**6KYW0**
Tube, For use with No. 6KYV8, 35 ft. Long			BTUBE6-0960	**6KYW1**
Tube, For use with No. 6KYV8, 50 Ft Long			BTUBE6-1200	**6KYW2**
Tube, For use with No. 6KYV8, 60 Ft Long			BTUBE6-1440	**6KYW3**
For Belt Skimmers				
Mighty Mini Belt Skimmer, For use with No. 6Y757			BMMS-06	**5HC16**
Mighty Mini Belt Skimmer, For use with No. 6Y758			BMMS-12	**5HC17**
Mighty Mini Belt Skimmer, For use with No. 6Y759			BMMS-18	**5HC18**
Mighty Mini Belt Skimmer, For use with No. 6Y760			BMMS-24	**5HC19**
Tote It® Belt Skimmer For Heavy Duty Oil Skimmer 6Y752			BT2S-0030	**5HC21**
Tote It® Belt Skimmer For Heavy Duty Oil Skimmer 6Y753			BT2S-0060	**5HC22**
For Magnet Mount Oil Separator				
Electrical Pump, For use with No. 45AP79			OC300E	**45AP80**
Pneumatic Pump, For use with No. 45AP79			OC300P	**45AP81**

Opto-Matic
6Y850

Watchdog
5JG85

Air/Oil Reservoir
1U550

Wire Guard
5JG79

Electric
Chain Oiler
1U755

TRICO LDI Industries

Oilers

TRICO

Opto-Matic Constant Level—Zinc-cast construction with zinc plating. Feature adjustable level setting, multiple air vent slots, and side and bottom ports. ¼" pipe thread connection.

Opto-Matic Closed System—Features adjustable level setting, aluminum body, and glass reservoir. Can be installed on rotating equipment using a ¼" NPT connection port. A pressure balancing line is user-installed between the oiler and the housing to ensure correct operation.

Watchdog—Integral sight glass allows instant viewing of the oil level in the housing. Oiler is installed on the centerline of the desired oil level; no adjustments are needed. Mounts on rotating equipment using the 1" NPT viewport on a bearing housing or gearbox. Metal body, glass reservoir. Includes wire guard.

Wire Guards—Use these guards with Opto-Matic oilers.

LDI INDUSTRIES

Air/Oil Reservoir—Converts shop air into low-pressure hydraulic power. Max. operating pressure: base mount up to 80 psi. Fluid outlet is ⅜" NPTF. Air inlet is ¼" NPTF for base mount.

Full Flow Electric Reservoir—Can be connected in series to valve or valve brushes. Closed solenoid provides automatic On/Off and fluid control.

Electric Chain Oiler Reservoirs—Adjustable needle valves set drip feed rate. For automatic operation, wire normally closed solenoid across machine starting switch. Feeding stops when machine is turned off. Include 1.5" x 0.38" nylon brush.

Bowl Cap.	Unit Height from Mount (in.)	W (in.)	Mfr. Model	Item No.
Trico				
Opto-Matic Constant Level Oilers - Glass Reservoirs				
2.5 oz	4 ¼ in	2 ½ in	30002	**5JG77**
4 oz	5 in	2 11/16 in	30003	**6Y849**
8 oz	5 15/16 in	3 3/16 in	30005	**6Y850**
16	6 13/16 in	4 ⅛ in	30010	**6Y851**
Opto-Matic Constant Level Oilers - Butyrate Plastic Reservoir				
4 oz	5 1/16 in	2 5/16 in	30064	**5LA36**
Opto-Matic Closed System Oiler				
4 oz	7 13/16 in	2 11/16 in	30203	**5JG82**
Watchdog Closed System Oiler				
4 oz	6 ½ in	3 ⅜ in	31825	**5JG85**
Wire Guards				
Fits Oiler 6Y849 and 5JG82			30013	**5JG79**
Fits Oiler 6Y850 and 5JG83			30016	**5JG80**
Fits Oiler 6Y851 Oiler			30020	**5JG81**
Ldi Industries				
Air/Oil Reservoir				
47 cu-in/gal	8 15/16 in	2 in	A/OR2053-3	**1U550**
Full Flow Electric Reservoir				
1 qt	8 7/16 in	—	REF154-26	**1U692**
Electric Chain Oiler Reservoirs				
1 pt	7 in	—	REB308-N-4-26	**1U755**
1 qt	8 7/16 in	—	REB309-N-4-26	**1U756**

1YMV8

1U585

Desiccant Breathers

TRICO LDI Industries

- Max. operating temp.: 200°F
- ABS plastic/acrylic construction

Protect and extend service life of industrial equipment by keeping damaging moisture and particulate contamination out. Use silica gel technology to adsorb moisture inside equipment with a color indicator to show when replacement is needed. Dual, antistatic 2 micron filter system collects airborne particulates to reduce sludge buildup in the fluid reservoir.

PRESSURE/VACUUM BREATHER

Allows excess pressure to vent as heat builds up in sealed pressure systems. 20 micron bronze filter. Steel body with aluminum top cap. Buna N seals.

Type	Top Cap Dia. (in.)	H	Thread Size	Brand	Mfr. Model	Item No.
Desiccant Breathers						
D101	5 in	6.25	1 Male Friction Fit	Trico	39101	**1YMV7**
D102	5 in	9.25	1 Male Friction Fit	Trico	39102	**1YMV8**
D108	5 in	11.25	2 (M)NPT	Trico	39108	**1YMV9**
Z131	2 in	2	½ (F)NPT	Trico	39131	**1YMW1**
Z132	2 in	3.25	½ (F)NPT	Trico	39132	**1YMW2**
Z133	3 ¼ in	2	½ (F)NPT	Trico	39133	**1YMW3**
Z134	3 ¼ in	3.25	½ (F)NPT	Trico	39134	**1YMW4**
Pressure/Vacuum Breather						
—	1 ⅜ in	2.16	⅜-18	Ldi Industries	PRV201-03	**1U585**

5JG49

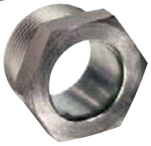
TRICO

Automatic Lubrication Pumps

Electric pumps provide automatic and reliable lubrication. For use on milling machines, injection molding machines, punch presses, and many types of industrial equipment. 110V standard. 5JG49 has digital control for time intervals and amount of lubrication per cycle.

Container Size	Output	Interval Time Between Cycles	Mfr. Model	Item No.
2 L	3-6 cc Per Cycle, Adjustable	5 min Min.	PE-1202-05	**5JG44**
		10 min Min.	PE-1202-10	**5JG45**
		15 min Min.	PE-1202-15	**5JG46**
		30 min Min.	PE-1202-30	**5JG47**
		60 min Min.	PE-1202-60	**5JG48**
3 L	3.33 cc per Second, Variable Delivery Time of 1-999 Seconds	Adjustable	PE-3003	**5JG49**

Low Pressure 1U915



High Pressure 1U926

Liquid Level Sight Plugs/Checks

Can be used as an observation window to check burner flames, gears in motion, and relay or switch operation in sealed housings. Allow visual inspection of fluid levels in gear boxes or reservoirs. Low-pressure sight plugs feature stainless steel reflector to aid viewing of dark fluids. Solid brass body, clear glass sight, and Buna N seals. High-pressure sight plugs have a fused heavy glass window. Steel body with electroless nickel plating. Open view (no reflector).

Note: Not intended for steam applications.

Pipe Thread	Sight Dia. (in.)	Hex Dia. (in.)	Max. Operating (psi)	Body	Mfr. Model	Item No.
Sight Plug						
1¼- 11½	1 3/16 in	1 ¾ in	25	Solid Brass	LSP151-07-01	**1U919**
High Pressure Fused Sight						
½-14	9/16 in	15/16 in	1,750	Steel	LSP51-04	**1U923**
¾-14	¾ in	1 1/16 in	1,500	Steel	LSP51-05	**1U924**
1- 11½	15/16 in	1 ⅜ in	1,250	Steel	LSP51-06	**1U925**
1¼- 11½	1 3/16 in	1 ¾ in	1,000	Steel	LSP51-07	**1U926**
1½-11-1/2	1 7/16 in	2 in	750	Steel	LSP51-08	**1U927**
2- 11½	1 ⅞ in	2 ½ in	500	Steel	LSP51-09	**1U928**
Low Pressure Sight Plug						
½-14	9/16 in	⅞ in	100	Solid Brass	LSP151-04-01	**1U916**
¾-14	¾ in	1 ⅛ in	60	Solid Brass	LSP151-05-01	**1U917**
⅜-18	7/16 in	¾ in	100	Solid Brass	LSP151-03-01	**1U915**
1- 11½	15/16 in	1 7/16 in	60	Solid Brass	LSP151-06-01	**1U918**
1½- 11½	1 7/16 in	2 in	25	Solid Brass	LSP151-08-01	**1U920**
2- 11½	1 ⅞ in	2 ½ in	10	Solid Brass	LSP151-09-01	**1U921**

Closed-Circuit Front-Mount Liquid Level Gages

- Aluminum construction with Buna N seals

PIPE ADAPTERS

¼" NPTF brass pipe adapters for mounting in heavy-wall tank or weld spuds on reservoir walls. Borosilicate sight glass with red line on white background.

DIAL THERMOMETERS

Dial probe thermometer series gage features highly accurate protected sensing element. Stainless steel dial thermometer: 1⅜" dia., 50° to 300°F. ½-20 UNF thread. Borosilicate sight glass with red line on white background.

RIGID PLASTIC SIGHTS

Provides wide-angle viewing through tough, break-resistant transparent cylindrical nylon sight. ½-20 UNF thread.

NEEDLE VALVES

Gage body may be removed from valves without loss of fluid. Features brass shut-off valves, ½" NPTF thread. Borosilicate sight glass with red line on white background.

Pipe Adapter 1U930

Mounting Centers (in.)	Max. Operating (psi)	Max. Operating Temp. (°F)	Mfr. Model	Item No.
Pipe Adapters				
5 in	290 psi	250 °F	G607-05-A-1-2	**1U929**
6 in	290 psi	250 °F	G607-06-A-1-2	**1U930**
9 in	290 psi	250 °F	G607-09-A-1-2	**1U932**
12 in	270 psi	250 °F	G607-12-A-1-2	**1U933**
Dial Thermometers				
5 in	125 psi	250 °F	G615-05-A-1	**1U935**
7 in	125 psi	250 °F	G615-07-A-1	**1U936**
12 in	125 psi	250 °F	G615-12-A-1	**1U938**
Rigid Plastic Sights				
3 in	125 psi	225 °F	G613-03-A-1	**1U939**
5 in	125 psi	225 °F	G613-05-A-1	**1U940**
12 in	125 psi	225 °F	G613-12-A-1	**1U943**
Needle Valves				
12 in	270 psi	250 °F	G608-12-A-1-4	**1U944**
18 in	240 psi	250 °F	G608-18-A-1-4	**1U946**
24 in	210 psi	250 °F	G608-24-A-1-4	**1U947**
30 in	185 psi	250 °F	G608-30-A-1-4	**1U948**

Flow Sights

- Brass construction with Buna N seals

Can be used in vertical or horizontal fluid lines to observe fluid flow, condition, or clarity. Borosilicate glass sight window. Female x female PTF. Models with nylon ball indicator aid viewing of dark fluids in dim light conditions.

Inline Double Window 1U892

Wide View 1U903

Note: Not intended for steam applications.

Pipe Thread	Dia. Hex Flats (in.)	Sight Length (in.)	Overall Length (in.)	Max. Operating psi @ 150°F	Mfr. Model	Item No.
Inline Double Window Flow Sights						
¼"-18	⅞ in	1 1/16 in	3 9/16 in	435 psi	F152	**1U892**
½"-14	1 ¼ in	1 5/16 in	4 ⅝ in	380 psi	F154	**1U894**
¾"-14	1 ⅜ in	1 ⅜ in	5 ¼ in	345 psi	F155	**1U895**
Inline Double Window Flow Sight with Nylon Ball						
¼"-18	⅞ in	1 1/16 in	3 9/16 in	435 psi	F152-01	**1U897**
½"-14	1 ¼ in	1 5/16 in	4 ⅝ in	380 psi	F154-01	**1U899**
¾"-14	1 ⅜ in	1 ⅜ in	5 ¼ in	345 psi	F155-01	**1U900**
Double Window Flow Sights with Nylon Ball						
1"-11-1/2	—	—	4 ⅝ in	160 @ 150	F251-06-01	**1U910**
Wide View Flow Sights with Nylon Ball						
½"-14	—	—	4 ¼ in	130 @ 212	F301-04-01	**1U903**
¾"-14	—	—	4 ¼ in	130 @ 212	F301-05-01	**1U904**
1"-11-1/2	—	—	4 ⅞ in	130 @ 212	F301-06-01	**1U905**

Vented Oil Gages

- Brass construction with Buna N seals

Gages provide quick, visual inspection of fluid levels in gear boxes and bearing housings. Protective gage shield rotates for optimum viewing. Glass sight. Short and long elbow gages may be disassembled on site, elbow alone installed, and gage reassembled. Union coupling gages provide a convenient break point.

Elbow, Female 1U593

Short Elbow with Drain 1U614

Sight Length (in.)	Base Square (in.)	Mounting Thread	Mfr. Model	Item No.
Elbow - Female				
2 ¼ in	⅞ in	¼ NPTF	G404-2	**1U593**
3 ¼ in	⅞ in	¼ NPTF	G406-2	**1U594**
4 ¼ in	1 in	⅜ NPTF	G421-3	**1U595**
	1 in	½ NPTF	G421-4	**1U596**
Long Elbow				
4 ¼ in	⅞ in	⅜ NPTF	G261-3	**1U605**
	⅞ in	½ NPTF	G261-4	**1U606**
Union Coupling				
2 ¾ in	11/16 in	¼ NPTF	G655-2	**1U608**
4 ¼ in	11/16 in	¼ Male NPTF	G657-2	**5HD47**
Short Elbow with Drain				
4 ¼ in	⅞ in	½ NPTF	G901-4	**1U614**
Vented				
2 ¾ in	11/16 in	¼ NPTF	G305-2	**5HD40**
4 ¼ in	11/16 in	¼ NPTF	G307-2	**5HD42**
	11/16 in	⅜ NPTF	G307-3	**5HD43**
	15/16 in	½ Male NPTF	G321-4	**5HD44**
7 ½ in	15/16 in	½ Male NPTF	G323-4	**5HD45**

Vents

FILTER VENTS

Relieve excessive pressure from gear-boxes. 40 micron filter element. Steel and zinc construction.

1U568

PROTECTED VENTS

Provide a labyrinth air path to restrict direct entry of dirt and moisture to reservoir or gearbox. Aluminum construction.

RELIEF/FILLER VENT PLUGS

Dual-purpose relief or filler vent plugs can be used for gearbox housings and bearings to eliminate excessive pressure. Automatic reset for continuous duty. Plated steel and brass construction.

1U573

Thread Size (PTF)	Dia. Hex Head (in.)	Overall Length (in.)	Mfr. Model	Item No.
Filter Vents				
¼	¾ in	1 3/16 in	FV102-S	**1U566**
½	15/16 in	1 ¼ in	FV104-S	**1U568**

Thread Size (PTF)	Top Cap Dia. (in.)	Base Square (in.)	Overall Length (in.)	Mfr. Model	Item No.
Protected Vents					
⅛	¾ in	½ in	1 ⅛ in	AV101	**1U569**
¼	¾ in	9/16 in	1 3/16 in	AV102	**1U570**
⅜	1 in	11/16 in	1 ¼ in	AV103	**1U571**
½	1 ¼ in	⅞ in	1 5/16 in	AV104	**1U572**

Thread Size (PTF)	Dia. Hex Flats (in.)	Overall Length (in.)	PSI	Mfr. Model	Item No.
Relief/Filler Vent Plugs					
¼-18 PTF	9/16 in	1 ⅛ in	1-5	PRV102-2	**1U573**
⅜-18	11/16 in	1 3/16 in	1-5	PRV103-2	**1U577**

LubeSite® WESTWARD® Grease Feeders

Mount in any position. Spring tension 1 to 2 psi; ⅛" NPT. Include extra light and heavy springs. Activation is immediate and can be used with any NLGI 0 to 4 nonseparating grease.

6Y735

Polycarbonate—Use all-polycarbonate for minimal vibration operating conditions. Units with metal base are for dynamic and vibrating conditions. Units with corrosion-resistant metal base can be used in chemical and food processing.

- Temp. range: -10° to 250°F

High Temperature—Borosilicate glass, stainless steel cap, and temperature-resistant Viton® seal construction.

- Temp. range: -10° to 450°F

Lubeline™ Remote Grease Refill Kit—Allows refill of hard-to-reach sites. Works with all polycarbonate and high temperature grease feeder models.

6Y742

Cap. (oz.)	H (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
All Polycarbonate					
2 oz	4 ⅝ in	2 ⅜ in	Lubesite	205	**6Y734**
6 oz	6 in	3 in	Lubesite	260	**5HC15**
Polycarbonate with Metal Base					
1 oz	3 ⅝ in	1 ¾ in	Lubesite	302	**6Y735**
2 oz	4 ⅝ in	2 ⅜ in	Lubesite	305	**6Y736**
6 oz	6 in	3 in	Lubesite	360	**6Y737**
Polycarbonate with Corrosion-Resistant Metal Base					
1 oz	3 ⅝ in	1 ¾ in	Lubesite	502	**6Y738**
2 oz	4 ⅝ in	2 ⅜ in	Lubesite	505	**6Y739**
6 oz	6 in	3 in	Lubesite	560	**6Y740**
High Temperature					
4 oz	7 ⅛ in	3 ¼ in	Lubesite	704	**6Y741**

Item	Includes	Brand	Mfr. Model	Item No.
Accessories				
Remote Grease Refill Kit	All Required Fittings and 10 Feet of High Pressure Polyethylene Tubing	Lubesite	900	**6Y742**
Grease Refill Kit	Tube with All Required Fittings	Westward	—	**35PC05**

Grease Dispensers TRICO

Microprocessor-controlled, prefilled dispensers apply a precise flow of grease to critical machine parts. Easy-to-read LCD.

1YMX8

Streamliner® V—Ideal for industries where high moisture, accelerated temperatures, and other contaminants are present. Operating pressure of 80 psi. 6 variable dispensing rates: 1, 2, 3, 6, or 12 mo., and purge.

Streamliner® M—Antivibration, break-free design allows unit to be deactivated and adjusted as necessary. High operating pressure of 280 psi. Up to 8-point lubrication capability. 6 variable dispensing rates: ½, 1, 2, 3, 6, or 12 mo. Service packs with grease pouch, battery pack, and cover sold separately.

Includes	Capacity	NPT	H (in.)	Mfr. Model	Item No.
Streamliner® V					
Exxon UnirexR EP2 Grease	125 cc	⅜"	5 ⅜ in	33334	**1YMX3**
	250 cc	⅜"	6 in	33341	**1YMW6**
Mobilith FM 222 Grease	250 cc	⅜"	6 in	33343	**1YMW8**
Mobilith SHCR 220 Grease	125 cc	⅜"	5 ⅜ in	33337	**1YMX6**
	250 cc	⅜"	6 in	33344	**1YMW9**
Mobilith SHCR PM 460 Grease	125 cc	⅜"	5 ⅜ in	33338	**1YMX7**
	250 cc	⅜"	6 in	33345	**1YMX1**
Mobilith SHC 100 Grease	125 cc	⅜"	5 ⅜ in	33335	**1YMX4**
	250 cc	⅜"	6 in	33342	**1YMW7**
Mobilith XHP 222 Grease	125 cc	⅜"	5 ⅜ in	33333	**1YMX2**
	250 cc	⅜"	6 in	33340	**1YMW5**

Description	Capacity	NPT	H (in.)	Mfr. Model	Item No.
Streamliner® M					
Dispenser	250 cc	⅜"	8 ⅜ in	33348	**1YMX8**
Service Pack, Exxon Unirex® EP2	250 cc	—	3 in	33357	**1YMY1**
Service Pack, Mobilith FM 222	250 cc	—	3 in	33359	**1YMY3**
Service Pack, Mobilith SHC®) PM 460	250 cc	—	3 in	33361	**1YMY5**
Service Pack, Mobilith SHC® 220	250 cc	—	3 in	33360	**1YMY4**
Service Pack, Mobilith XHP 222	250 cc	—	3 in	33356	**1YMX9**

LDI Industries® Reservoirs

- Aluminum construction and Buna N seals
- Max. temp: 140°F for polymer bowls, 180°F for borosilicate glass bowls (except RDF Series)
- Ratings at atmospheric pressure (except where noted)

Break-resistant, transparent polymer bowl allows full 360° view of fluid. 1U623, 1U669, and 1U671 have borosilicate glass bowl, enhancing fluid compatibility and thermal shock resistance. RDB300, R100, RDF, and RFF100 Series disassembles for cleaning.

RDB300 Series Manual Control Chain Oilers—Visible drip rate. On/Off toggles do not affect previously set feed rate. 1.5" x 0.38" nylon bristle brush can be trimmed.

- Max. temp.: 250°F for nylon brushes

R100 Series Gravity Feed Reservoirs without Flow Control—For use as makeup or replenishing reservoirs. Self-closing snap lid filler caps.

RCL Series Constant Level Reservoir—Automatically maintains oil levels in bearing, pump, or gear housings. Large surge capacity. Bottom outlet can be used as drain. Side or bottom mount.

- ⅛" PTF air vent
- ½" NPTF outlet

RDF Series Drop Feed Reservoirs—Dispense oil by gravity from reservoir bowl through adjustable needle valve. Feature vented sight chamber, adjustable metering, toggle shutoff, and self-closing filler cap.

- 1500 SSU max. viscosity
- Pipe thread/NPTF, except 1U680 is straight thread/remote mount
- Fluid temp.: 250°F for glass bowl

REO Series
1U669

REM Series Multiple Feed Electro Reservoir—Automatically controls full flow of lubrication from a single reservoir to 2 locations. Adjustable needle valve controls drip feed rate.

- 120V/60 Hz, 1-phase solenoid
- Class B molded water-resistant coil

REO Series Automatic Solenoid-Controlled Lubricators—Provide controlled lubrication through a needle valve.

- 120V/60 Hz, 1-phase solenoid
- Class B molded water-resistant coil

RFF100 Series Full Flow Dispensers—Use as central dispensers for lubrication systems. Oil can be shut off manually. Vented, self-closing snap lid filler cap.

RVP Series Air-Operated Reservoir—Allows accurate spray pattern adjustment while applying lubricants.

- 40-micron filter
- ¼" NPTF air inlet/outlet
- ⅛" NPTF oil to valve
- Max. inlet unregulated air pressure: 125 psi
- Max. regulated air and fluid pressure: 30 psi

Bowl Capacity	Bowl Dia.	Bowl Material	Unit Height	H (in.)	Mounting Thread	Mfr. Model	Item No.
RDB300 Series Manual Control Chain Oilers							
9 oz	3 in	Polymer	7	—	⅝"-18	RDB306-N-4	**1U745**
1 pt	3 ½ in	Polymer	8 ⅜ in	—	⅝"-18	RDB308-N-4	**1U747**
1 qt	4 ¼ in	Polymer	9 ⅜ in	—	⅝"-18	RDB309-N-4	**1U748**
R100 Series Gravity Feed Reservoirs without Flow Control							
1 oz	1 ½ in	Polymer	3	—	⅛"	R151-01	**1U625**
8 oz	2 ½ in	Polymer	5 ⅜	5 ⅜ in	¼"	R107-02	**1U636**
12 oz	3 in	Polymer	6 7⁄16	—	⅜"	R109-03	**1U639**
1 qt	4 ¼ in	Polymer	7 15⁄16	—	⅜"	R111-03	**1U643**
1 gal	5 ½ in	Polymer	15 ¼	—	½"	R113-04	**1U647**
RCL Series Constant Level Reservoir							
9 oz	3 in	Glass	6 3⁄16	—	½"	RCL313	**1U623**
RDF Series Drop Feed Reservoirs							
0.625 oz	1 ½ in	Polymer	4 9⁄16 in	—	⅛"	RDF101-01	**1U648**
1.5 oz	1 ¾ in	Polymer	5 ⅜	—	¼"	RDF103-02	**1U650**
5 oz	2 ½ in	Polymer	6 ⅜	—	⅜"	RDF105-03	**1U652**
9 oz	3 in	Polymer	7 ⅝	—	⅜"	RDF107-03	**1U653**
1 pt	3 ½ in	Polymer	8 15⁄16 in	—	⅜"	RDF109-03	**1U657**
	3 ½ in	Glass	8 15⁄16 in	—	⅜"	RDF109-13	**1U669**
	3 ½ in	Polymer	9 ⅛	—	½"	RDF109-04	**1U658**
	3 ½ in	Polymer	8 15⁄16 in	—	⅝"-18	RDF109-08	**1U680**
1 qt	4 ¼ in	Polymer	10 ⅛	—	½"	RDF110-04	**1U659**
	4 ¼ in	Glass	10 ⅛	—	½"	RDF110-14	**1U671**
0.5 gal	5 ½ in	Polymer	12 ⅙ in	12 1⁄16 in	½"	RDF111-04	**1U660**
REM Series Multiple Feed Electro Reservoir							
1 qt	—	—	—	—	⅝"-18	REM154-02-26	**1U725**
REO Series Automatic Solenoid Controlled Lubricators							
1 pt	—	Polymer	7 in	7 in	⅝"-18	REO155-26	**1U699**
1 qt	—	Polymer	8 7⁄16 in	8 7⁄16 in	⅝"-18	REO156-26	**1U700**
RFF100 Series Full Flow Dispensers							
9 oz	3 in	Polymer	6 ⅞	—	⅝"-18	RFF101	**1U683**
1 qt	4 ¼ in	Polymer	9 ⅛	—	⅝"-18	RFF104	**1U686**
RVP Series Air Operated Reservoirs							
1 gal	—	—	19 ¼	—	5⁄16"-24	RVP103	**1U764**
Accessories							
	Spray Valve for Use with No. 1U764, Flat Pattern					SV101	**1U766**
	Spray Valve for Use with No. 1U764, Round Pattern					SV102	**1U767**

3ZC63

WESTWARD®

Industrial-Duty Bottle Jacks

- Steel construction
- Blue enamel, air-dry finish
- Include handle

Protects hydraulic system from over pumping. Hard cast iron steel construction and heat-treated extension screw saddles on 2- to 20-ton models. Precision-machined release valves provide positive load control on jack descent. Wide base provides better stability and strength.

Lifting Capacity	Hydraulic Stroke	Lifting Height Min.	Lifting Height Max.	Item No.
2 ton	4 ⅝ in	7 ⅛ in	13 ¾ in	**3ZC58**
4 ton	5 in	8 ⅛ in	15 ½ in	**3ZC59**
6 ton	5 ⅛ in	8 ½ in	16 ⅝ in	**3ZC60**
8 ton	6 in	8 ⅞ in	17 ⅝ in	**3ZC61**
12 ton	3 ⅛ in	6 in	10 ¾ in	**3ZC56**
	6 in	9 ⅜ in	18 ½ in	**3ZC62**
20 ton	3 ⅛ in	6 ½ in	11 ¼ in	**3ZC57**
	6 in	9 ½ in	18 ⅝ in	**3ZC63**
30 ton	7 in	11 in	18 in	**3ZC64**

3PCT3

SIMPLEX

Screw Jacks

Ductile-iron housing. Serrated, drop-forged steel load cap accepts steel-bar handle (sold separately) at any of 4 angles to vary the lifting force.

Lifting Cap. (tons)	Lifting Ht. (in.) Min.	Lifting Ht. (in.) Max	Base Size (in.)	Saddle Size (in.)	Mfr. Model	Item No.
12 ton	9 ¾ in	13 ½ in	4.75	2⅞	SJ156	**3PCT3**
	11 ⅝ in	17 ⅜ in	5.5	2⅞	SJ158	**3PCT4**
	15 ⅝ in	25 ⅜ in	6.25	2⅞	SJ1512	**3PCT5**
20 ton	11 ¾ in	16 ¾ in	6	3⅛	SJ208	**3PCT6**
	13 ¾ in	20 ¾ in	6.5	3⅛	SJ2010	**3PCT7**
	15 ¾ in	24 ¾ in	6.75	3⅛	SJ2012	**3PCT8**
24 ton	13 in	17 ¼ in	6.5	3¼	SJ258	**3PCT9**
	17 in	25 ¼ in	7.25	3¼	SJ2512	**3PCU1**
	23 in	37 ¼ in	8.5	3¼	SJ2518	**3PCU2**

Description	Mfr. Model	Item No.
Steel-Bar Handles		
For 12 Ton Units	SLB24	**3PCU3**
For 20 Ton Units	SLB35	**3PCU4**
For 24 Ton Units	SLB42	**3PCU5**

6W462

4Z480

2RV20

ENERPAC

Hand and Foot Pumps

Steel construction, except where indicated. 2-speed models have high flow at low pressure and low flow at higher pressure. All units are shipped with oil.

Lightweight—Designed with handle lock and for easy portability. Durable glass-filled nylon reservoir, nylon encapsulated aluminum pump base for maximum corrosion resistance, and an internal pressure relief valve for overload protection. 46C563 has integral 4-way valve for operating the double-acting cylinders.

Ultima Series Steel—Pumps operate with reduced handle effort and an ergonomic grip for less operator fatigue. Vent-free reservoir eliminates spills and integral reservoir over pressurization protection. The quick grip handle allows for easy transport.

Low-Pressure—Feature external load-release valve, and internal pressure-relief valve for overload protection. 46C557 and 46C560 pump oil both forward and reverse handle movement, improving overall efficiency. Ideal where mounting space is restricted. 46C561 can be operated in horizontal and vertical position with pump head and oil outlet facing downwards.

Ultra-High Pressure—Allows for a faster fill and reduced cycling time. Feature a large release knob that allows improved control of pressure release. Aluminum construction, except for ultra-high pressure stainless steel fittings.

Hydraulic Foot Pump—Compact unit is lightweight composite construction, with steel frame, internal pressure relief valve, and large foot-pad release for controlled return. Foot pedal lock allows for greater portability.

Repair Kits—1ANV4 includes screen and all related balls, washers, O-rings, gaskets, retaining rings, and pins. 1ANV5 includes filter assembly, screen, inlet adapter, and all related O-rings, balls, washers, gaskets, and springs.

Description	No. of Stages	Reservoir Cap.	Max. Press. 1st Stage	Max. Press. 2nd Stage	Displacement Per Stroke 1st Stage	Displacement Per Stroke 2nd Stage	Max. Handle Effort	Port Size	Mfr. Model	Item No.
Hydraulic Hand Pumps										
Single-Acting										
Lightweight	1	20 cu in	—	10,000 psi	—	0.05 cu in	72 lb	¼ in NPT	P141	**18Y532**
	1	55 cu in	—	10,000 psi	—	0.15 cu in	85 lb	⅜ in NPT	P391	**46C558**
	2	20 cu in	200 psi	10,000 psi	0.22 cu in	0.05 cu in	78 lb	¼ in NPT	P142	**6W461**
	2	55 cu in	200 psi	10,000 psi	0.22 cu in	0.05 cu in	63 lb	¼ in NPT	P202	**46C556**
	2	55 cu in	200 psi	10,000 psi	0.68 cu in	0.15 cu in	93 lb	⅜ in NPT	P392	**6W462**
	2	155 cu in	400 psi	10,000 psi	2.4 cu in	0.15 cu in	95 lb	⅜ in NPT	P802	**3KD31**
Ultima Series Steel	1	47 cu in	—	10,000 psi	—	0.15 cu in	111 lb	⅜ in NPT	P39	**4Z480**
	2	41 cu in	200 psi	10,000 psi	1 cu in	0.15 cu in	88 lb	⅜ in NPT	P77	**4YDY5**
	2	134 cu in	500 psi	10,000 psi	1 cu in	0.15 cu in	77 lb	⅜ in NPT	P80	**4Z481**
	2	249 cu in	500 psi	10,000 psi	0.99 cu in	0.15 cu in	104 lb	⅜ in NPT	P801	**4YDY6**
	2	453 cu in	200 psi	10,000 psi	7.69 cu in	0.29 cu in	110 lb	⅜ in NPT	P462	**4PU57**
Low-Pressure	1	22 cu in	2,850 psi	—	0.15 cu in	—	34 lb	⅜ in NPT	P18	**18Y533**
	1	200 cu in	2,500 psi	—	0.58 cu in	—	60 lb	¼ in NPT	P25	**46C557**
	1	200 cu in	5,000 psi	—	0.29 cu in	—	60 lb	¼ in NPT	P50	**46C560**
	1	50 cu in	3,000 psi	—	0.25 cu in	—	61 lb	⅜ in NPT	P51	**46C561**
Ultra-High Pressure	2	60 cu in	200 psi	40,000 psi	0.99 cu in	0.37 cu in	106 lb	¾"-16 UNF	P2282	**4YDY4**
Double-Acting										
Lightweight	2	155 cu in	400 psi	10,000 psi	2.4 cu in	0.15 cu in	95 lb	⅜ in NPT	P842	**46C563**
Ultima Series Steel	2	134 cu in	500 psi	10,000 psi	1 cu in	0.15 cu in	77 lb	⅜ in NPT	P84	**46C562**
	2	453 cu in	200 psi	10,000 psi	7.69 cu in	0.29 cu in	110 lb	⅜ in NPT	P464	**46C559**
Hydraulic Foot Pump										
Single-Acting										
Lightweight	2	38 cu in	200 psi	10,000 psi	0.69 cu in	0.15 cu in	93 lb	⅜ in NPT	P392FP	**2RV20**
Repair Kits										
Hydraulic Hand Pump Repair Kit for 4Z480									P39K4	**1ANV4**
Hydraulic Hand Pump Repair Kit for No. 6W462									P391K2	**1ANV5**

Electric Pumps

ENERPAC

- 115VAC, 50/60 Hz
- ⅜" NPT fluid port

Universal motor, except 6BU67 has induction-type motor.

Portable—2-speed operation. Pumps start under full load. Designed for intermittent duty-cycle. 26VY57 is double-acting.

Z-Class—Heavy-duty bearings with steel reservoirs. 6BU67 includes low-voltage pendant with sealed switches. Designed for extended cycle applications of more than 1 hr. 6BU65 and 6BU66 are designed for intermittent use under 1 hr. 26VY45 features backlit LCD with built-in hour meter and diagnostics.

5ZL45

Reservoir Capacity (cu.-in.)	(gal.)	Oil Displacement @ 100 psi	10,000 psi	Control Valve	HP	Mfr. Model	Item No.
Portable							
115	0.5	200 cu in/min	20 cu in/min	2 Position, 3 Way	0.5 hp	PUJ1200B	**4ZC75**
122	0.5	200 cu in/min	20 cu in/min	Dump	0.5 hp	PUD1100B	**46C554**
231	1	200 cu in/min	20 cu in/min	Dump	0.5 hp	PUD1101B	**46C555**
231	1	200 cu in/min	20 cu in/min	2-position, 3-way, For Advance/Release of Cylinder	0.5 hp	PUJ1201B	**5ZL45**
231	1	200 cu in/min	20 cu in/min	3 Position, 4 Way	0.5 hp	PUJ1401B	**26VY57**
Z-Class							
462	2	450 cu in/min	40 cu in/min	Remote 3 Way/3 Position	1 hp	ZE3308SB	**6BU67**
462	2	700 cu in/min	60 cu in/min	Manual 3 Way/3 Position	1.7 hp	ZU4308MB	**6BU65**
462	2	700 cu in/min	60 cu in/min	Manual 3 Way/3 Position, With LCD Display	1.7 hp	ZU4308LB	**6BU66**
462	2	700 cu in/min	60 cu in/min	3 Position, 4 Way, Remote, Tandem Center	1.7 hp	ZU4408SB	**26VY45**

Air Pumps

ENERPAC

- Max. pressure: 10,000 psi
- ¼" NPT air inlet
- ⅜" NPT fluid port
- Include swivel air coupling on air intake port

Turbo II—Pumps start at extremely low pressure. Reinforced HD reservoir. 76 dBA.

Hand- or Foot-Operated—3-position treadle for cylinder advance/hold/retract. Can be used in all positions. 4Z482 includes built-in carrying handle and base mounting slots.

Z-Class Pump—High-efficiency 2-speed pump offers higher oil flow, higher bypass pressure, and a larger-capacity oil reservoir with sight gauge. Includes carrying handle and manual valve.

XA-Class Foot-Operated—2-pedal design features variable air flow and fine metering, with high oil flow. Externally adjustable pressure valve. Pedal locks. Include ground screw for improved ATEX explosion safety.

1Z907

Reservoir Capacity (cu.-in.)	(gal.)	Oil Displacement @ 0 psi	10,000 psi	Operating Air PSI	Air Consumption (SCFM)	Built-In	Mfr. Model	Item No.
Turbo II								
127	0.5	48.00 cu in/min	5 cu in/min	125	8	Pressure Relief Valve	PARG1102N	**46C553**
	0.54	60.00 cu in/min	10 cu in/min	40 to 125	12	Internal Pressure Relief Valve	PATG1102N	**1Z907**
230	1	60.00 cu in/min	10 cu in/min	125	12	Pressure Relief Valve	PAMG1405N	**46C552**
	1	60.00 cu in/min	10 cu in/min	40 to 125	12	Internal Pressure Relief Valve	PATG1105N	**5ZL44**
Hand or Foot Operated								
36	0.15	40.00 cu in/min	8 cu in/min	60 to 120	9	Pressure Control Valve	PA133	**4Z482**
80	0.15	40.00 cu in/min	8 cu in/min	60 to 120	9	—	PA1150	**18Y534**
Z-Class Pump								
404	1.75	850.00 cu in/min	80 cu in/min	60 to 100	20 to 100	Pressure Relief Valve	ZA4208MX	**1MTF4**
XA-Class Foot Operated								
61	0.26	120.00 cu in/min	15 cu in/min	30 to 125	10 to 35	Pressure Control Valve	XA11	**2LML7**
	0.26	120.00 cu in/min	15 cu in/min	30 to 125	10 to 35	Sight Gauge	XA11G	**18Y553**
122	0.52	120.00 cu in/min	15 cu in/min	30 to 125	10 to 35	—	XA12	**18Y554**
	0.52	120.00 cu in/min	15 cu in/min	30 to 125	10 to 35	Sight Gauge	XA12G	**18Y555**

5UXA5

ENERPAC

Air Hydraulic Work Holding Pumps

- Operating air: 50 to 125 psi
- Cap.: 1250 to 5000 psi
- Air inlet: ¼" (F)NPT
- Hydraulic-to-air ratio: 45:1 (3000 series); 60:1 (5000 series)

Pumps have on-demand stall-restart operation and generate hydraulic pressure by using air pressure. Feature adjustable pressure relief valves. D03 valves are required for proper operation; sold separately at Grainger.com®. Swing and Threaded Body Cylinders are available on Grainger.com®.

Reservoir Cap. (gal.)	Oil Cap. (cu. in.)	Oil Displacement @ 0 psi	@ 5000 psi	Includes	Mfr. Model	Item No.
3000 Series						
0.65	127	120.00 cu in/min	20 cu in/min	Gauge and Bracket	PACG5002SB	**5UXA8**
	127	180.00 cu in/min	—	Gauge and Bracket	PACG3002SB	**5UXA5**
	127	180.00 cu in/min	—	D03 Valve Manifold	PASG3002SB	**5UXC1**
2	462	180.00 cu in/min	—	Gauge	PACG30S8S	**5UXA6**
	462	180.00 cu in/min	—	2 Station Manifold	PACG30S8SMB2	**5UXA7**
	462	180.00 cu in/min	20 cu in/min	D03 Valve Manifold	PASG30S8S	**5UXC2**
5000 Series						
0.65	127	120.00 cu in/min	20 cu in/min	D03 Valve Manifold	PASG5002SB	**5UXC3**
2	462	120.00 cu in/min	20 cu in/min	Gauge	PACG50S8S	**5UXA9**
	462	120.00 cu in/min	20 cu in/min	2 Station Manifold	PACG50S8SMB2	**5UXC0**
	462	120.00 cu in/min	20 cu in/min	D03 Valve Manifold	PASG50S8S	**5UXC4**

Cordless Hydraulic Pump

ENERPAC

- Max. pressure: 10,000 psi
- ½ HP

Portable hand pump with powerful 28V lithium-ion battery delivers exceptional speed and run time. Bladder reservoir helps prevent contamination and allows pump usage in any position. Features directional control valve, safety lock, and On/Off switch. Use in remote locations without access to power or indoors where trip hazards are a concern. Includes built-in handle, charger, 2 batteries, and carrying strap. Compatible with all Enerpac® hydraulic tools and small to medium cylinders.

46C543

Reservoir Cap. (gal.)	Oil Displacement @ 100 psi	@ 5000 psi	Control Valve	Mfr. Model	Item No.
0.52	125 cu in/min	20 cu in/min	On/Off Trigger	XC1202MB	**46C543**

ENERPAC

Electric Hydraulic Work Holding Pumps

- Max. pressure: 5,000 psi

Use to pressurize palletized hydraulic fixtures that have single-acting clamps. 115VAC; 50/60 Hz. 5UXC5 is a 2-stage, submersible single-acting pump. 115V. 5UXC6 has an adjustable pressure switch to control pump shutdown at pressure.

5UXC8

Reservoir Cap. (gal.)	Oil Displacement @ 100 psi	@ 5000 psi	Control Valve	Mfr. Model	Item No.
0.5	200 cu in/min	25 cu in/min	Dump	WUD1100B	**5UXC7**
	200 cu in/min	25 cu in/min	Dump and Hold	WUD1300B	**5UXC8**
1.5	150 cu in/min	40 cu in/min	Dump	WED1101B	**5UXC5**
	150 cu in/min	40 cu in/min	Manual 2 Position 3 Way	WES1201B	**5UXC6**

Standard Hydraulic Rams

ENERPAC WESTWARD

4Z485

4PU62

3KD55

Extreme Environment Rams—Nickel-plated to resist corrosion in extreme environments. Viton seals are heat- and chemical-resistant.

General Purpose Rams—They have a maximum working pressure of 10,000 psi.

High Cycle Rams—Mounting configurations allow them to be attached to fixtures.

Lightweight Rams—Made of aluminum so they weigh less than standard steel hydraulic rams, making them more portable and easier to transport.

Low Profile Rams—Feature low height when fully retracted, allowing them to be used in tight or confined spaces.

Low Profile Hand Jacks—Feature an integrated pump and handle for manually lifting heavy loads without requiring external connections. Ideal for use where there are a small or narrow clearances.

Nominal Capacity	Nominal Stroke Length	Effective Push Area	Retracted Height	Series	Item No.
Extreme Environment					
5 ton	3 in	1 sq in	6.5 in	RC	**1MTF2**
10 ton	2 in	2.25 sq in	4.78 in	RC	**1MTF1**
10 ton	6 in	2.25 sq in	9.75 in	RC	**1MTE9**
25 ton	6 in	5.16 sq in	10.75 in	RC	**23NP32**
General Purpose					
5 ton	⅝ in	0.99 sq in	1.63 in	RC	**3KD48**
5 ton	1 in	0.99 sq in	4.34 in	RC	**3KD49**
5 ton	3 in	0.99 sq in	6.5 in	RC	**4Z483**
5 ton	5 in	0.99 sq in	8.5 in	RC	**4Z484**
5 ton	7 in	0.99 sq in	10.75 in	RC	**3KD50**
5 ton	9 in	0.99 sq in	12.75 in	RC	**3KD51**
10 ton	⅞ in	2.24 sq in	3.47 in	RCS	**6Z066**
10 ton	1 in	2.24 sq in	3.53 in	RC	**3KD42**
10 ton	2 in	2.24 sq in	4.78 in	RC	**4Z485**
10 ton	4 in	2.24 sq in	6.75 in	RC	**6Z783**
10 ton	6 in	2.24 sq in	9.75 in	RC	**4Z486**
10 ton	10 in	2.23 sq in	16.13 in	RR	**23NR29**
10 ton	10 in	2.24 sq in	13.75 in	RC	**4Z487**
10 ton	12 in	2.23 sq in	18 in	RR	**23NR30**
10 ton	12 in	2.24 sq in	15.75 in	RC	**2NWH4**
10 ton	14 in	2.24 sq in	17.75 in	RC	**2NWH5**
11.2 ton	8 in	3.14 sq in	11.75 in	RC	**3KD43**
15 ton	1 in	3.14 sq in	4.88 in	RC	**2NWH6**
15 ton	2 in	3.14 sq in	5.88 in	RC	**3KD44**
15 ton	4 in	3.14 sq in	7.88 in	RC	**5ZL46**
15 ton	6 in	3.14 sq in	10.69 in	RC	**6W463**
15 ton	8 in	3.14 sq in	12.69 in	RC	**5ZL47**
15 ton	10 in	3.14 sq in	14.69 in	RC	**6W464**
15 ton	12 in	3.14 sq in	16.69 in	RC	**18Y536**
15 ton	14 in	3.14 sq in	18.69 in	RC	**23NP31**
20 ton	⅝ in	4.43 sq in	3.88 in	RCS	**6Z067**
25 ton	¼ in	3.14 sq in	14.75 in	RC	**6W473**
25 ton	1 in	5.16 sq in	5.5 in	RC	**5ZL48**
25 ton	2 in	5.16 sq in	6.5 in	RC	**3KD45**
25 ton	4 in	5.16 sq in	8.5 in	RC	**3KD46**
25 ton	6 in	5.16 sq in	10.75 in	RC	**4Z488**
25 ton	8 in	5.16 sq in	12.75 in	RC	**3KD47**
25 ton	12 in	5.16 sq in	16.75 in	RC	**2NWH7**
25 ton	14 in	5.16 sq in	18.75 in	RC	**2NWH8**
30 ton	2 in	6.49 sq in	4.63 in	RCS	**6Z068**
30 ton	8 in	6.51 sq in	15.25 in	RR	**23NR36**
30 ton	8 in	6.49 sq in	15.25 in	RC	**5ZL49**
30 ton	15 in	6.51 sq in	21.63 in	RR	**23NR35**
50 ton	2 in	9.62 sq in	4.81 in	RCS	**6Z272**
50 ton	2 in	11.04 sq in	6.94 in	RC	**5ZL50**
50 ton	4 in	11.04 sq in	8.94 in	RC	**5ZL51**
50 ton	6 in	11.06 sq in	13.06 in	RR	**23NR39**
50 ton	6 in	11.04 sq in	11.13 in	RC	**4Z489**
50 ton	13 in	11.06 sq in	20.06 in	RR	**23NR37**
50 ton	13 in	11.04 sq in	18.13 in	RC	**2NWJ1**
50 ton	20 in	11.06 sq in	28.88 in	RR	**23NR38**
75 ton	6 in	15.92 sq in	13.69 in	RR	**23NR40**
75 ton	6 in	15.9 sq in	11.25 in	RC	**18Y538**
75 ton	13 in	15.9 sq in	19.38 in	RC	**18Y537**
100 ton	2 in	19.63 sq in	5.56 in	RCS	**4PU63**
100 ton	7 in	20.65 sq in	13.69 in	RR	**23NR28**
100 ton	7 in	20.63 sq in	14.06 in	RC	**2NWH3**
100 ton	10 in	2.24 sq in	17.69 in	RC	**18Y535**
100 ton	18 in	20.65 sq in	27.06 in	RR	**23NR27**
150 ton	2 in	30.71 sq in	7.19 in	RR	**23NR31**
150 ton	6 in	30.71 sq in	15.19 in	RR	**23NR32**
150 ton	12 in	33.14 sq in	19.57 in	HCR	**444N47**
200 ton	6 in	44.21 sq in	16.94 in	RR	**23NR33**
300 ton	6 in	70.93 sq in	19.13 in	RR	**23NR34**
High Cycle					
4 ton	1 in	0.79 sq in	7.31 in	RD	**18Y543**
4 ton	3 in	0.79 sq in	9.31 in	RD	**18Y544**
4 ton	6 in	4.91 sq in	16.69 in	RD	**18Y542**
9 ton	1 in	1.77 sq in	8.75 in	RD	**18Y546**
9 ton	3 in	1.77 sq in	10.78 in	RD	**18Y548**
9 ton	6 in	0.79 sq in	12.31 in	RD	**18Y545**
9 ton	6 in	1.77 sq in	13.78 in	RD	**18Y549**
9 ton	10 in	1.77 sq in	17.78 in	RD	**18Y547**
16 ton	6 in	3.14 sq in	15.31 in	RD	**18Y540**
16 ton	10 in	3.14 sq in	19.31 in	RD	**18Y539**
25 ton	10 in	4.91 sq in	20.69 in	RD	**18Y541**
Lightweight					
20 ton	2 in	4.83 sq in	6.85 in	RAC	**23NN96**
20 ton	4 in	4.83 sq in	8.82 in	RAC	**23NN97**
20 ton	6 in	4.83 sq in	10.79 in	RAC	**23NN98**
30 ton	4 in	6.85 sq in	9.09 in	RAC	**4PU59**
30 ton	6 in	6.85 sq in	11.06 in	RAC	**4PU60**
50 ton	2 in	10.99 sq in	7.92 in	RAR	**23NP24**
50 ton	2 in	10.99 sq in	7.32 in	RAC	**23NN99**
50 ton	4 in	10.99 sq in	9.89 in	RAR	**23NP25**
50 ton	4 in	10.99 sq in	9.29 in	RAC	**4PU61**
50 ton	6 in	10.99 sq in	11.86 in	RAR	**23NP26**
50 ton	6 in	10.99 sq in	11.26 in	RAC	**4PU62**
100 ton	4 in	22.19 sq in	11.86 in	RAR	**23NP20**
100 ton	4 in	22.19 sq in	10.67 in	RAC	**23PC24**
100 ton	6 in	22.19 sq in	13.83 in	RAR	**23NP21**
100 ton	6 in	22.19 sq in	12.64 in	RAC	**4PU58**
100 ton	8 in	22.19 sq in	15.8 in	RAR	**23NP22**
100 ton	8 in	22.19 sq in	14.61 in	RAC	**23NN94**
150 ton	6 in	35.19 sq in	13.71 in	RAR	**23NP23**
150 ton	6 in	35.18 sq in	13.49 in	RAC	**23NN95**
Low Profile					
5 ton	¼ in	0.99 sq in	1.28 in	RSM	**6Z782**
5 ton	1 in	—	2.2 in	—	**3CFK7**
10 ton	6/25 in	2.15 sq in	1.08 in	CULP	**55PT75**
10 ton	13/50 in	2.15 sq in	1.4 in	CUSP	**55PT80**
10 ton	⅜ in	2.24 sq in	1.69 in	RSM	**3KD55**
20 ton	6/25 in	4.38 sq in	1.26 in	CULP	**55PT77**
20 ton	7/25 in	4.39 sq in	1.59 in	CUSP	**55PT83**
20 ton	⅜ in	4.43 sq in	2.03 in	RSM	**3KD56**
20 ton	29/50 in	23.85 sq in	2.5 in	CUSP	**55PT81**
30 ton	6/25 in	6.85 sq in	1.38 in	CULP	**55PT78**
30 ton	½ in	6.49 sq in	2.31 in	RSM	**6W466**
30 ton	1 in	6.85 sq in	1.67 in	CUSP	**55PT85**
50 ton	6/25 in	12.17 sq in	1.75 in	CULP	**55PT79**
50 ton	⅝ in	9.62 sq in	2.63 in	RSM	**6W467**
50 ton	1 in	12.17 sq in	2.24 in	CUSP	**55PT86**
75 ton	⅝ in	15.9 sq in	3.13 in	RSM	**5ZL57**
75 ton	1 in	17.53 sq in	2.38 in	CUSP	**55PT87**
100 ton	6/25 in	23.85 sq in	2.55 in	CULP	**55PT76**
100 ton	⅝ in	19.63 sq in	3.38 in	RSM	**5ZL56**
150 ton	14/25 in	35.19 sq in	2.56 in	CUSP	**55PT82**
150 ton	⅝ in	30.68 sq in	3.94 in	RSM	**18Y550**
150 ton	⅝ in	30.68 sq in	3.94 in	RSM	**18Y550**
200 ton	59/100 in	46.28 sq in	2.72 in	CUSP	**55PT84**
200 ton	2 in	43.95 sq in	6.1 in	LPL	**55PP51**
250 ton	2 in	56.27 sq in	6.24 in	LPL	**55PP52**
400 ton	2 in	88.75 sq in	7.01 in	LPL	**55PP53**
500 ton	2 in	113.25 sq in	7.56 in	LPL	**55PP54**
Low Profile Hand Jack- Westward					
5 ton	¼ in	—	1.61 in	—	**3CFK6**
10 ton	½ in	—	2.09 in	—	**3CFK8**
20 ton	½ in	—	2.4 in	—	**3CFL1**

Premium Hydraulic Oil

ENERPAC

Formulated specifically for use with Enerpac pumps. Antisludge, antirust, antifoam additives included.

Power Pump Oil—High viscosity index. Blue color.

Hand Pump Oil—Medium viscosity index. Not for use in power pumps. Yellow color.

2RV21

Container Size	Viscosity Index	Flash Point	Pour Point	Mfr. Model	Item No.
Power Pump Oil					
1 qt	100	400 °C	-45°F	HF100	**3KD75**
1 gal	100	400 °C	-45°F	HF101	**3KD76**
55 gal	100	400 °C	-45°F	HF104	**18Y531**
Hand Pump Oil					
1 gal	105	375 °F	-45°F	LX101	**2RV21**

Lifting Sets

ENERPAC

Include a hydraulic hand pump, and a selection of cylinders that have different stroke lengths.

2RV22

Cylinder Nominal Capacity	Cylinder Stroke	Pump Model Number	Accessory Model Number	Item No.
5 ton	⅝ to 5 in	6W461 (Mfr. No. P142)	6BU60 (Mfr. No. HC7206), G2535L, GA-3, HF-100, P-142, RC-50, RC-51, RC-55, WR-5	**2RV22**
10 ton	⅝ to 6 in	6W462 (Mfr. No. P-392)	6BU60 (Mfr. No. HC7206), C604, G2535L, GA-3, HF-100, JB10, P-392, RC-106, RCH-123, RCS-101, RSM-100, WR-5	**2RV23**
25 ton	⅝ to 6 in	3KD31 (Mfr. No. P-802)	Mfr. No. P-802, 6BU60 (Mfr. No. HC7206), HF-101 , G2535L, GA-3, C604, WR-5, RSM-300, RCS-302, RC-256, RCH-302	**2RV24**

Hydraulic Ram & Pump Sets

ENERPAC

Hydraulic rams support heavier loads at higher psi ratings than standard hydraulic cylinders. The manually operated hand pump is portable and can be brought to the workpiece.

Standard Ram & Pump Sets—Manually operated pump attaches to the ram to lift and support heavy loads. Single-acting cylinders are spring-loaded and return the load when pressure is released.

Low Height Ram & Pump Sets—Low-profile rams have a smaller range than standard rams.

Hollow Ram & Pump Sets—Feature ram with a hollow plunger and piston rod that can be used with a threaded rod. The manually operated pump is portable for bringing to the workpiece.

5ZL59

4YDY8

Cylinder Nominal Capacity	Cylinder Stroke	Cylinder Retracted Height	Pump Model Number	Cylinder Model Number	Item No.
Standard Ram & Pump Sets					
10 ton	2 ⅛ in	4.78 in	6W462 (Mfr. No. P392)	4Z485 (Mfr. No. RC102)	**5ZL59**
10 ton	6 ⅛ in	9.75 in	6W462 (Mfr. No. P392)	4Z486 (Mfr. No. RC106)	**5ZL60**
10 ton	10 ⅛ in	13.75 in	6W462 (Mfr. No. P392)	4Z487 (Mfr. No. RC1010)	**5ZL58**
25 ton	4 in	8.5 in	6W462 (Mfr. No. P392)	3KD46 (Mfr. No. RC254)	**5ZL62**
25 ton	6 ¼ in	10.75 in	6W462 (Mfr. No. P392)	4Z488 (Mfr. No. RC256)	**5ZL64**
50 ton	6 ¼ in	11.13 in	4Z481 (Mfr. No. P80)	4Z489 (Mfr. No. RC506)	**5ZL65**

Cylinder Nominal Capacity	Cylinder Stroke	Cylinder Retracted Height	Pump Model Number	Cylinder Model Number	Item No.
Low Height Ram & Pump Sets					
10 ton	1 ½ in	3.88 in	6W462 (Mfr. No. P392)	6Z066 (Mfr. No. RCS101)	**4YDY8**
20 ton	1 ¾ in	3.88 in	6W462 (Mfr. No. P392)	6Z067 (Mfr. No. RCS201)	**4YDY9**
30 ton	2 ⅜ in	4.63 in	6W462 (Mfr. No. P392)	6Z068 (Mfr. No RCS302)	**4YDZ1**
50 ton	2 ¼ in	4.81 in	6W462 (Mfr. No. P392)	6Z272 (Mfr. No. RCS502)	**4YDZ2**
Hollow Ram & Pump Sets					
12 ton	1 ⅝ in	4.75 in	6W141 (Mfr. No. P142)	6Z269 (Mfr. No. RCH121)	**3PCY5**
20 ton	2 in	6.31 in	6W462 (Mfr. No. P392)	6Z270 (Mfr. No. RCH202)	**3PCY6**
30 ton	2 ½ in	7.03 in	6W462 (Mfr. No. P392)	6Z271 (Mfr. No. RCH302)	**3PCY7**
60 ton	3 in	9.75 in	6W462 (Mfr. No. P392)	5ZL54 (Mfr. No. RCH603)	**3PCY8**

ENERPAC

Workholding Hydraulic Rams

5UXA1

23NP45

Have a high cylinder force to position and securely clamp parts in high-volume applications where tight tolerances are critical.

SOLID PLUNGER

Block-body hydraulic cylinders are single-acting, which means they provide movement in one direction and have an internal spring that returns the cylinder to its starting position. Long stroke length allows use in tight spaces such as in welding applications.

HOLLOW PLUNGER

Block-body hydraulic cylinders support loads from both ends, allowing for push and pull operations that can utilize full cylinder capacity. They have a threaded collar and base mounting holes to provide a variety of mounting options, including T-slot, tabletop, and surface mounting. Single-acting cylinders are spring-loaded to ease unloading.

Nominal Capacity	Nominal Stroke Length	Center Hole Dia.	Retracted Height	Series	Item No.
Solid Plunger					
5 ton	⅝ in	1 in	1.63 in	RW	**5UXA1**
5 ton	1 in	1 in	4.34 in	RW	**5UXA2**
5 ton	3 in	1 in	6.5 in	RW	**5UXA3**
5 ton	5 in	1 in	8.5 in	RW	**5UXA4**
10 ton	⅞ in	1 ½ in	3.53 in	RW	**5UWZ8**
10 ton	2 in	1 ½ in	4.78 in	RW	**23NP44**
10 ton	4 in	1 ½ in	6.75 in	RW	**5UWZ9**
10 ton	6 in	1 ½ in	9.75 in	RW	**5UXA0**
Hollow Plunger					
2 ton	5⁄16 in	0.5 in	2.06 in	RWH	**23NP47**
6 ton	5⁄16 in	0.77 in	2.19 in	RWH	**23NP45**
6 ton	1 in	0.77 in	3.19 in	RWH	**23NP46**
18 ton	1 in	1.31 in	5.12 in	RWH	**23NP48**

2RV26

ENERPAC

Heavy-Duty Hydraulic Pullers

- Max. pressure: 10,000 psi

Speed crank and mechanical adjusting screw allow fast contact to work before hydraulics are applied. Made of forged steel components.

Master Puller Sets—Come complete with composite hand pump, single-acting hollow cylinder, 6-ft. hose, gauge, gauge adapter, and 4 puller styles (grip, cross bearing, bearing cup, and bearing puller). Pump and hollow ram provide precise hydraulic control and help ensure safe, efficient pulling. 2RV25 includes metal case. 2RV26 and 2RV28 include saddle and wood case.

Grip Pullers—Handle large components such as bearings and drive gears. Allow a person to handle the entire job and have a safety cage jaw retention system. Sets include 10,000 psi cylinder, flat and tempered ram point sets, and lift plate with mounting screws.

Note: Grip pullers do not include hydraulic pump, hose, or gauge.

No. of Pieces	Tonnage Capacity	Stroke Length	Mfr. Model	Item No.
Master Puller Sets				
10		1 in	BHP1752	**2RV25**
11		2 in	BHP2751G	**2RV26**
		2 ½ in	BHP3751G	**2RV28**

No. of Pieces	Stroke Length	Mfr. Model	Item No.
Grip Pullers			
9	6"	EPHR208	**1MTF5**
	10"	EPHR210	**1MTF6**
11	14¼"	EPHR213	**1MTF7**
10	6"	EPHR108	**1MTF8**
	10"	EPHR110	**1MTF9**
12	14¼"	EPHR113	**1MTG1**

Hydraulic Ram Spreaders

ENERPAC

- Max. pressure: 10,000 psi

RAM SPREADERS

General purpose ram spreaders attach to a hydraulic pump to spread crushed parts, open stuck doors, or separate parts in automotive and industrial applications.

LIFTING WEDGE RAMS

Have one flat side and a stepped wedge on the opposite side for use in lifting items off the ground. The item is lifted in stages and cribbed (or supported) while the wedge is moved to the next step to lift the item higher.

FLANGE RAM SPREADERS

Used to separate pipe flanges in industrial pipe maintenance operations. The ram is placed between the flanges and the pipes are spread as the jaws of the spreader open.

LIFT WEDGE RAM AND PUMP SETS

Include items to perform basic lifting of low-clearance items. Lift-wedge rams have a jaw with a flat side for resting on the ground and a stepped wedge side that allows items to be lifted off the ground in stages. The lifted item is cribbed, or supported, between lifting steps. Sets include a lift-wedge hydraulic ram, pump, and other accessories.

3KD94

3PCW2

55PV80

Nominal Capacity	Tip Clearance	Spread Width	Oil Cap.	Item No.
Ram Spreaders				
0.75 ton	1.26 in	11.5 in	3.91 cu in	**3KD93**
1 ton	0.5 in	3.7 in	0.61 cu in	**3KD94**
Lifting Wedge Rams				
16 ton	0.39 in	0.83 in	4.75 cu in	**3PCW2**
Flange Ram Spreaders				
14 ton	0.24 in	3.16 in	4.76 cu in	**4PU56**
Lift Wedge Ram & Pump Sets				
8 ton	0.19 in	4 in	—	**55PV80**
16 ton	0.38 in	2.72 in	—	**55PV81**
16 ton	0.39 in	2.02 in	4.75 cu in	**25TV43**
24 ton	0.25 in	4.1 in	—	**55PV79**
24 ton	0.25 in	4.1 in	—	**55PV78**

ENERPAC

Hydraulic Nut Splitters

3PCW5

- Max. pressure: 10,000 psi

Nut splitters are used to break apart corroded or frozen nuts to free the bolt. Attach the nut splitter to a hydraulic pump to cut the nut off the bolt. Replacement blades sold separately, go to Grainger.com® and search for nut cutter blades.

Bolt Range	Hex Size Range	Nominal Capacity	Oil Cap.	Weight	Item No.
½ in to ⅝ in	¾ in to 15⁄16 in	10 ton	1.22 cu in	4.4 lb	**3PCW3**
⅝ in to ⅞ in	15⁄16 in to 1⅛ in	15 ton	3.66 cu in	6.6 lb	**3PCW4**
⅞ in to 1⅛ in	1⅛ in to 1 9⁄16 in	20 ton	4.88 cu in	9.7 lb	**3PCW5**
1⅛ in to 1⅜ in	1 9⁄16 in to 2 in	35 ton	9.46 cu in	18.0 lb	**3PCW6**
1⅜ in to 1½ in	2 in to 2¼ in	50 ton	14.64 cu in	26.0 lb	**3PCW7**
1½ in to 1⅞ in	2⅜ in to 2⅞ in	90 ton	30 cu in	75.1 lb	**3PCW8**

ENERPAC

Hydraulic Pipe Bender Set

- Max. pressure: 10,000 psi

Accurately makes smooth, wrinkle-free bends up to 90°. Schedule 40-160 rigid pipe. Includes composite hand pump; 10-ton, 10" stroke cylinder; 6-ft. 10,000 psi hose; 6 lightweight, heat-treated aluminum bending shoes; 2 pivot shoes; 2 pivot pins; shoe lock pin; bending frame; cylinder saddle; and angle indicator. Comes in lockable steel storage case.

Size Range (in.)	Bend Radius (in.)	Mfr. Model	Item No.
½ to 2	2⅞ to 8 5⁄16	STB101H	**2RV32**

Heavy-Duty Hydraulic Maintenance Sets

ENERPAC

- Max. pressure: 5000 psi

General purpose maintenance sets are used for performing basic maintenance tasks around a facility or worksite, including lifting, bending, and straightening. These sets include a hydraulic cylinder, hand pump, and other compatible attachments.

Note: When cylinders are used with maintenance set attachments, the maximum system pressure must be limited to half the rated pressure (5000 psi). Capacity of cylinders limited to half of rated capacity.

3KD70

Cylinder Nominal Capacity	Cylinder Stroke	Pump Model Number	Cylinder Model Number	Accessory Model Number	Mfr. Model	Item No.
5 ton	5 in	6W461 (Mfr. No. P142)	4Z484 (Mfr. No. RC-55)	6BU60 (Mfr. No. HC7206), GA-4,, GP-10S, P-142, RC-55	MS24	**5ZL43**
5 ton to 13 ton	6¼ in	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC-256)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-102, RC-106, RC-256	MS21020	**2NWJ3**
10 ton	6⅛ in	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-106	MS210	**3KD70**
10 ton	6⅛ in	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	6BU60 (Mfr. No. HC7206), A10, A128, A129, A13, A14, A15, A16, A18, A20, A21, A6, GA-3, MZ1002, MZ1003, MZ1004, MZ1005, MZ1050, MZ1052, P-392, RC-106, WR-5	MSFP10	**25TV41**
25 ton	6¼ in	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC256)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-256	MS220	**5ZL42**

4YDT3

14A076

2RV30

3KD80

Heavy-Duty Industrial Hydraulic Press Sets and Accessories

ENERPAC

Arbor Presses—Foot mounting holes allow vertical or horizontal positioning. Slotted back simplifies loading and unloading of longer parts. Order pump and cylinder separately.

C-Clamp Presses—18Y517 and 18Y518 are operational in all positions and include foot mounting holes for vertical or horizontal positioning.

Bench Press—Use where there is limited space, for quick press access, or for smaller parts. Includes 6-ft. thermoplastic hose. Cylinder mounting adapter allows lateral positioning along rails. Ships with predrilled mounting holes.

H-Frame Presses—Feature welded H-frame for longer life. Each includes heavy-duty steel pump mounting bracket, 10,000-psi pump, cylinder, hose, gauge, and gauge adapter. 3KD82 and 3KD81 feature 10-ft. control pendant; roller head design allows side-to-side movement and cylinder locking. Presses with over 10-ton capacity are equipped with an exclusive Hydra-Lift™ bed for adjustment.

Frame Cap. (tons)	Total Height (in.)	Working Height (in.)	Total Width (in.)	Working Width	Mfr. Model	Item No.
Arbor Presses (Pump & Cylinder sold separately)						
10 tons	16 5/16	8.94	5.31	2.00	A310	**4YDT3**
30 tons	21 15/16	10.25	7.00	2.00	A330	**4YDT4**
C-Clamp Presses (Pump & Cylinder sold separately)						
5 ton	11 29/64"	6½"	8"	2.00	A205	**14A076**
10 ton	16	9"	3¼"	3 ¼ in	A210	**18Y517**
20 ton	21¼"	11⅞"	—	3 ¾ in	A220	**18Y518**

Frame Capacity	Pump Type	Pump	Cylinder	Cylinder Stroke	Cylinder Type	Total Height	Working Height	Total Width	Working Width	Mfr. Model	Item No.
Bench Press											
10 ton	Air	Mfr. No. PA-133	Mfr. No. RC-1010	—	Single Acting	25.63"	15⅜"	18⅜"	2.00	IPA-1022	**2RV30**
H-Frame Presses											
10 ton	Air	Mfr. No. XA-11	Mfr. No. RC-1010	—	Single Acting	52"	40"	25"	2.00	IPA1220	**3KD79**
10 ton	Manual	Mfr. No. P-392	Mfr. No. RC-1010	—	Single Acting	52"	40"	25"	2.00	IPH1240	**3KD83**
10 ton	Electric	Mfr. No. PEM-1201B	Mfr. No. RC-1010	10 ¼ in	Single Acting	52"	52"	30"	30 in	IPE1215	**25TU61**
25 ton	Air	Mfr. No. XA-12	Mfr. No. RC-2514	—	Single Acting	76"	7 to 54½"	40½"	2.00	IPA2520	**3KD80**
25 ton	Manual	Mfr. No. P-80	Mfr. No. RC-2514	—	Single Acting	76"	7 to 54½"	40½"	2.00	IPH2531	**3KD84**
50 ton	Electric	Mfr. No. ZE4420SB-N/ZE4420SG-N	Mfr. No. RR-5013	—	Double Acting	76"	7 to 48½"	42¾"	2.00	IPE5060	**3KD82**
100 ton	Electric	Mfr. No. ZE4420SB-N	Mfr. No. RR-10013	—	Double Acting	76"	7 to 42½"	51"	2.00	IPE10060	**3KD81**
150 ton	Electric	Mfr. No. ZE5420SG-N	Mfr. No. RR-15013	13 ¼ in	Double Acting	90"	90"	70½"	67 8/47 in	IPE15065	**25TU62**

ENERPAC

Gauges and Gauge Adapters

- Max. pressure: 10,000 psi, except 46C578 is 15,000 psi

Use with all cylinders and presses. Stainless steel cases resist corrosion. Gauge snubbers or needle valves recommended for high-cycle applications.

3KD57

Gauge Range	Dial Size	Req. Enerpac® Gauge Adapter	Filled With	Accuracy	Connection Size	Connection Location	Mfr. Model	Item No.
DGR Series, Digital Hydraulic Gauge								
0 to 20,000 psi	2 ¾ in	—	—	—	¼ in	Bottom	DGR2	**22NV68**
GF Series, Hydraulic Force and Pressure Gauges								
0 to 10,000 psi	4 in	GA-1, GA-2 OR GA-4	Glycerin	+/-1.00%	½ in	Bottom	GF10P	**46C573**
	4 in	GA-1, GA-2 OR GA-4	Glycerin	+/-1.00%	½ in	Bottom	GF20P	**46C574**
	4 in	GA-1, GA-2 OR GA-4	Glycerin	+/-1.00%	½ in	Bottom	GF50P	**46C575**
	4 in	GA-1, GA-2 OR GA-4	Glycerin	+/-1.00%	½ in	Bottom	GF510P	**46C576**
	4 in	GA-1, GA-2 OR GA-4	Glycerin	+/-1.00%	¼ in	Bottom	GF813P	**46C577**
GP Series, Hydraulic Force and Pressure Gauges								
0 to 10,000 psi	4 in	GA-2	—	+/-1.00%	½ in	Bottom	GP10S	**3KD63**
0 to 15,000 psi	4 in	GA-1, GA-2 OR GA-4	—	+/-1.00%	½ in	Bottom	GP15S	**46C578**
G Series, High Pressure Gauges								
0 to 300 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2512L	**46C564**
0 to 600 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2513L	**46C565**
0 to 1000 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2514L	**46C566**
	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Center Back	G2531R	**46C569**
0 to 3000 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2516L	**46C567**
0 to 6000 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2517L	**46C568**
	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Center Back	G2534R	**46C570**
0 to 10,000 psi	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Bottom	G2535L	**3KD57**
	2 ½ in	GA-3	Glycerin	+/-1.50%	¼ in	Center Back	G2537R	**46C571**
	4 in	GA-3	Glycerin	+/-1.00%	¼ in	Bottom	G4088L	**3KD59**
	4 in	GA-2	Glycerin	+/-1.00%	½ in	Bottom	G4039L	**5ZL41**
0 to 15,000 psi	2 ½ in	—	Glycerin	+/-1.50%	¼ in	Bottom	G2536L	**18Y527**
	4 in	—	Glycerin	+/-1.00%	¼ in	Bottom	G4089L	**18Y528**
T Series, Test System Gauges								
0 to 10,000 psi	6 ½ in	—	—	+/-0.50%	½ in	Bottom	T6003L	**18Y551**
0 to 40,000 psi	6 ½ in	—	—	+/-1.50%	¼ in	Bottom	T6010L	**18Y552**

Gauge Port (F)NPT (in.)	(M)NPT Fitting (in.)	(F)NPT Fitting (in.)	L (in.)	Mfr. Model	Item No.
Gauge Adapters					
¼ in	⅜ in	⅜ in	5.25 in	GA3	**3KD39**
½ in	¼ in	⅜ in	4.38 in	GA4	**3KD40**
½ in	⅜ in	⅜ in	2.8125 in	GA1	**46C572**
½ in	⅜ in	⅜ in	6.1 in	GA2	**3KD38**

4PU64

ENERPAC

35-Ton Hydraulic Punch and Punch and Die Sets

Note: Material thickness should not exceed hole diameter.

35-Ton Hydraulic Punch— Designed to punch burr-free holes in mild steel up to ½" thick. Includes bench-mount bracket, metal storage case, die changeover tools, and ⅜" coupler. Works with hand-, air-, and electric-powered hydraulic pumps.

- Spring return cylinder

Punch-and-Die Kits— Include punch and 4 die sets that produce round holes sized 0.44", 0.56", 0.69", and 0.81" in diameter. Once punched, these holes will accommodate standard bolts sized ⅜", ½", ⅝", and ¾".

Description	Mfr. Model	Item No.
35-ton Hydraulic Punch	SP35	**3KD34**
Punch and Die Kit	SP35S	**4PU64**
Punch and Die Kit with Electric Pump and Hose	SP35SP	**25TV51**

Std. Hole Size (in.)	Std. Bolt Size (in.)	Characteristics	Mfr. Model	Item No.
Punch and Die Sets				
0.31	¼ in	Circle Hole	SPD313	**3KD85**
0.38	5/16 in	Circle Hole	SPD375	**3KD86**
0.38	5/16 in	Square Hole	SPD549	**46C550**
0.44	⅜ in	Circle Hole	SPD438	**3KD87**
0.44	⅜ in	Square Hole	SPD639	**46C551**
0.44 x 0.75	⅜ in	Oval Hole	SPD188	**46C548**
0.50 x 0.75	7/16 in	Oval Hole	SPD250	**46C549**
0.53	7/16 in	Circle Hole	SPD531	**3KD88**
0.56	½ in	Circle Hole	SPD563	**3KD89**
0.69	⅝ in	Circle Hole	SPD688	**3KD90**
0.78	—	Circle Hole	SPD781	**3KD91**
0.81	¾ in	Circle Hole	SPD813	**3KD92**

6W468

6W468

1MTG2

3PCU6

ENERPAC

Needle and Check Valves

Needle Valve— Controls cylinder speed. Can be used as a shutoff valve for temporary load holding.

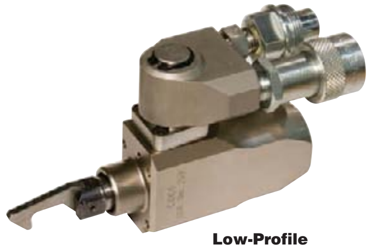
Manually Operated Check Valve— Improves safety in load-holding applications. When closed, oil is allowed into cylinder but not back to pump.

Pressure Relief Valve— Add to a 10,000 psi pump or to a hydraulic system to limit system pressure. Opens when preset pressure is reached. Repeatability: ±3%. Includes 3-ft. line hose kit.

Hydraulic Split Flow Valve— Allows a single pump to independently operate 2 cylinders. Steel construction.

Item	Inlet Port Size	Port Size	Outlet Port Size	Pressure Range (psi)	Mfr. Model	Item No.
Needle Valve	⅜ in NPT	⅜ NPT	⅜ in NPT	—	V82	**6W468**
Manually Operated Check Valve	⅜ in NPT	⅜ NPT	⅜ in NPT	—	V66	**6W469**
Pressure Relief Valve	—	⅜ in NPT	—	800 to 10,000	V152	**1MTG2**
Hydraulic Split Flow Valve	—	⅜ in NPT	—	0 to 10,000	AM21	**3PCU6**

Square-Drive Torque
38XV31



Low-Profile Hexagon Cassette Torque
38XV32

ENERPAC

Hydraulic Torque Wrench Drivers

- Max. pressure: 10,000 psi
- Nickel-plated steel construction

All X-Series tools are CE-ATEX declared and ship with calibration certificate. Constant torque provides accuracy of +/- 3% across full stroke. Robust positioning handles have multiple mounting options, promoting safer usage of tool, even in hard to reach applications. Wrenches include carrying case. Drive units are compatible with W-Series, Ultra-Slim and WCR-Series cassettes.

X-SERIES SQUARE-DRIVE

Lightweight and ergonomic with easy operation reaction arm and push-button drive release. Feature extra durable manifold that provides added safety for user. Reaction arm has large lever that makes it easy to operate. This wrench design provides a small operating radius without sacrificing the endurance of the tool.

X-SERIES LOW-PROFILE HEXAGON

Ultra-slim, compact tool offers superior strength to size ratio, providing easy access with greater durability. Feature fast release drive that enables rapid exchange of cassettes without the use of tools for quick change-out. For Cassettes, go to Grainger.com and search by "Hydraulic Torque Wrench Cassettes". Cassettes not included.

Square Drive Size (in.)	Socket Size Range (in.)	Max. Torque (ft.-lb.)	Overall W (in.)	Overall H (in.)	Weight (lb.)	Mfr. Model	Item No.
X Series, Square-Drive Torque Wrenches							
¾	¾ to 2	1440	1.54	3.82	7.0	S1500X	**38XV34**
1	¾ to 3⅞	3225	1.89	3.54	12.3	S3000X	**38XV40**
1½	1⁷⁄₁₆ to 4⅝	6150	2.17	6.18	20.2	S6000X	**38XV39**
1½	1⁷⁄₁₆ to 4⅝	11,175	2.83	7.48	34.7	S11000X	**38XV36**
2½	2⁷⁄₁₆ to 6⅛	25,150	3.5	9.61	70.8	S25000X	**38XV31**

Hex Size Range (in.)	Max. Torque (ft.-lb.)	Overall L (in.)	Overall W (in.)	Overall H (in.)	Weight (lb.)	Mfr. Model	Item No.
X Series, Low-Profile Hexagon Cassette Torque Wrenches							
1¹⁄₁₆ to 2⅜	2040	6.77	1.26	5.23	2.9	W2000X	**38XV38**
1⁵⁄₁₆ to 3⅜	4175	8.30	1.61	6.64	4.2	W4000X	**38XV32**
1⅞ to 4⅛	8470	9.84	2.07	8.42	6.8	W8000X	**38XV41**
2⁷⁄₁₆ to 4⅝	15,370	11.93	2.48	10.12	11	W15000X	**38XV35**

For Use With	Hose Ends	Mfr. Model	Item No.
Twin Hydraulic Hose Assembly			
S and W Series Enerpac Torque Wrenches	¼ Male x ¼" Female Quick-Coupler	THQ706T	**3PCZ2**

ENERPAC

Torque Wrench Pumps

3PDC6
Air Pump

- Max. pressure: 10,000 psi
- ¼" fluid port
- 85 to 90dBA

AIR PUMP

- ½" air inlet

2-speed operation. Equipped with 2 internal relief valves, 1 factory preset for overload protection and 1 user-adjustable for setting max. system pressure. With pressure gauge, filter/regulator/lubricator, sight gauge, roll cage, and oil drain. Air-operated valve included in pendant.

ELECTRIC PUMPS

- 115VAC
- 24VDC control pendant

30P879 is a powerful 2-speed pump that features built-in gauge, relief valve, adjustable pressure relief valve for accurate torque adjustments, and gives precise repeatability. 3PDC8 includes On/Off toggle, pendant with electro-mechanical push-buttons, and 24V transformer timer and circuit breaker. 3PDC9 has a multilingual digital LCD; tracks maintenance cycle, shows current pressure, cycle count, low-voltage warning, and trouble-shooting/diagnosis. Autocycle feature allows continuous torque wrench cycle operation.

Oil Capacity (cu.-in.)	Reservoir Capacity (gal.)	Displacement @ 0 psi	Displacement @ 10,000 psi	Operating Air psi	Air Consumption (scfm)	Mfr. Model	Item No.
Air Pump							
231	1	600.00 cu in/min	60 cu in/min	60 to 100	20 to 100	ZA4204TX-Q	**3PDC6**

Reservoir Capacity (cu.-in.)	Reservoir Capacity (gal.)	Oil Displacement (cu.-in./min.) @ 100 psi	700 psi	10,000 psi	HP	Mfr. Model	Item No.
Electric Pumps							
—	0.75	—	—	20 cu in/min	—	PMU10427Q	**30P879**
231	1	700 cu in/min	535 cu in/min	60 cu in/min	1.7 hp	ZU4204BB-Q	**3PDC8**
231	1	700 cu in/min	535 cu in/min	60 cu in/min	1.7 hp	ZU4204TB-Q	**3PDC9**

EATON

Vickers

5- to 30-Gal. AC Power Units

4DDL5

- 230/460VAC, 3 Phase

Deliver units deliver smooth, quiet operation, and feature close coupled pump and motor, adjustable relief valve, pressure gauge, filler breather, and lift-out cover for easy maintenance.

Reservoir Cap.	HP	Nominal Flow	Max. Pressure	Pressure Port	Full Load Amps	RPM	Manifold Block	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Vertical												
5 gal	3 hp	1.5 gpm	2,500 psi	¾"-16 (SAE 8)	8.2/4.1	1,800 RPM	D03	18 in	10 in	30 in	6764761	**4DDN4**
10 gal	3 hp	3 gpm	1,470 psi	¾"-16 (SAE 8)	8.2/4.1	1,800 RPM	D03	21 in	14 in	28 in	6764776	**4DDL5**
	3 hp	4.5 gpm	980 psi	¾"-16 (SAE 8)	8.2/4.1	1,800 RPM	D03	21 in	14 in	28 in	6042869-001	**4DDL6**
	5 hp	3 gpm	2,450 psi	¾"-16 (SAE 8)	14.6/7.3	1,800 RPM	D03	21 in	14 in	29 in	3044143	**4DDL7**
	5 hp	4.5 gpm	1,630 psi	¾"-16 (SAE 8)	14.6/7.3	1,800 RPM	D03	21 in	14 in	29 in	4995505	**4DDL8**
Horizontal												
20 gal	7.5 hp	7.5 gpm	1,470 psi	1¹⁄₁₆"-12 (SAE 12)	21.0/10.5	1,800 RPM	—	27 in	18 in	25 in	4995555	**4DDL9**
	10 hp	7.5 gpm	1,960 psi	1¹⁄₁₆"-12 (SAE 12)	28.4/14.2	1,800 RPM	—	27 in	18 in	25 in	4995625	**4DDN1**
30 gal	10 hp	10 gpm	1,470 psi	1¹⁄₁₆"-12 (SAE 12)	28.4/14.2	1,800 RPM	—	38 in	24 in	23 in	3044402	**4DDN3**
	10 hp	10.5 gpm	1,400 psi	1¹⁄₁₆"-12 (SAE 12)	28.4/14.2	1,800 RPM	—	38 in	24 in	23 in	4995633	**4DDN2**

1.6- to 30-Gal. AC Power Units

Recommended motor starters are sold separately on page 165.

1.6-GAL.

- Horizontal mounting

Feature an aluminum center adapter that also serves as a port manifold and valve housing with a load-holding check valve, and a VM01 cartridge relief valve. Pump housing has an anodized 70 Rockwell C aluminum oxide finish. Includes direct manifold mount.

5- AND 15-GAL.

- Fixed-clearance pumps (5-gal.)
- Pressure-balanced pumps (15-gal.)
- Vertical mounting for all models

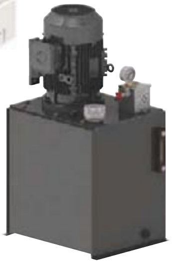
Come fully assembled with filler breather, fluid level gauge with thermometer, pressure gauge, relief valve, and a manifold block for mounting a valve. Manifold is for direct pressure and tank (P&T) plumbing. Block comes with SAE ports only. Valve options and additional components are sold separately on page 2477.

8- TO 30-GAL.

Provide smooth, quiet, operation and feature an adjustable relief valve, bayonet-style filler breather, drain port, pressure gauge, SAE ports, sight/level/temp. gauge, and removable top plate to ease maintenance. Models 5 HP and larger have a premium-efficiency motor rated for 50 Hz and 60 Hz operation for overall system efficiency.

BUCHER hydraulics
MONARCH Hydraulics, Inc.

36ND92



36ND81

Reservoir Cap.	No. of Stages	HP	Nominal Flow	Max. Pressure	Pressure Port	Voltage	Phase	Recommended Motor Starter	Manifold Block	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Horizontal														
1.6 gal	1	0.5 hp	0.5 gpm	1,500 psi	9/16"-18 (SAE 6)	115/230V AC	1	1H555	—	26 3/32 in	10 29/32 in	8 15/16 in	M-4504-0158	**36ND91**
	1	1 hp	0.5 gpm	3,000 psi	9/16"-18 (SAE 6)	115/208-230V AC	1	1H555	—	27 3/32 in	10 29/32 in	8 15/16 in	M-4504-0159	**36ND92**
	1	1 hp	1.4 gpm	1,000 psi	9/16"-18 (SAE 6)	115/208-230V AC	1	1H555	—	27 3/32 in	10 29/32 in	8 15/16 in	M-4504-0161	**36ND94**
	1	1 hp	1.9 gpm	750 psi	9/16"-18 (SAE 6)	115/208-230V AC	1	1H555	—	27 3/32 in	10 29/32 in	8 15/16 in	M-4504-0162	**36ND95**
	1	1 hp	1.9 gpm	750 psi	9/16"-18 (SAE 6)	230/460V AC	3	1H555	—	27 3/32 in	9 3/32 in	8 15/16 in	M-4504-0164	**36ND97**
	1	1 hp	1 gpm	1,500 psi	9/16"-18 (SAE 6)	115/208-230V AC	1	1H555	—	27 3/32 in	10 29/32 in	8 15/16 in	M-4504-0160	**36ND93**
	1	1 hp	1 gpm	1,500 psi	9/16"-18 (SAE 6)	230/460V AC	3	1H555	—	27 3/32 in	9 3/32 in	8 15/16 in	M-4504-0163	**36ND96**
	1	2 hp	2 gpm	1,500 psi	9/16"-18 (SAE 6)	230/460V AC	3	1H555	—	27 3/32 in	9 3/32 in	8 15/16 in	M-4504-0165	**36ND98**
	1	2 hp	3.8 gpm	750 psi	9/16"-18 (SAE 6)	230/460V AC	3	1H555	—	27 3/32 in	9 3/32 in	8 15/16 in	M-4504-0166	**36ND99**
20 gal	1	7.5 hp	7.5 gpm	1,500 psi	1 1/16"-12 (SAE 12)	208-230/460V AC	3		—	27 in	18 in	28 in	ZTJ000646	**38VP30**
	1	10 hp	7.5 gpm	2,000 psi	1 1/16"-12 (SAE 12)	208-230/460V AC	3		—	27 in	18 in	28 in	ZTJ000647	**38VP31**
30 gal	1	10 hp	10.5 gpm	1,400 psi	1 1/16"-12 (SAE 12)	208-230/460V AC	3		—	39 in	18 in	28 in	ZTJ000649	**38VP33**
	1	10 hp	10 gpm	1,500 psi	1 1/16"-12 (SAE 12)	208-230/460V AC	3		—	39 in	18 in	28 in	ZTJ000648	**38VP32**
Vertical														
5 gal	1	1 hp	1 gpm	1,500 psi	9/16"-18 (SAE 6)	115/230V AC	1	1H555	D03	14 in	12 1/4 in	25 15/32 in	M-4505-0150	**36NE02**
	1	2 hp	1.4 gpm	2,000 psi	9/16"-18 (SAE 6)	115/230V AC	1	1H555	D03	14 in	12 1/4 in	26 31/32 in	M-4505-0151	**36NE03**
	1	2 hp	1.9 gpm	1,500 psi	9/16"-18 (SAE 6)	230/460V AC	3	1H555	D03	14 in	12 1/4 in	25 31/32 in	M-4505-0152	**36NE04**
	1	2 hp	1 gpm	3,000 psi	9/16"-18 (SAE 6)	115/230V AC	1	1H555	D03	14 in	12 1/4 in	26 31/32 in	M-4505-0149	**36NE01**
8 gal	1	3 hp	1.5 gpm	2,500 psi	3/4"-16 (SAE 8)	208-230/460V AC	3		D03	20 in	17 in	30 in	T1VA355C02F1-01	**38VP25**
15 gal	1	3 hp	3 gpm	1,500 psi	3/4"-16 (SAE 8)	208-230/460V AC	3		D03	20 in	17 in	36	T2VC355C02F1-01	**38VP26**
	1	3 hp	4.5 gpm	1,000 psi	3/4"-16 (SAE 8)	208-230/460V AC	3		D03	20 in	17 in	36	T3VC355C02F1-01	**38VP27**
	1	3 hp	6.9 gpm	600 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H412	D05	20 in	17 in	35 in	T65C355A03B0-01	**36ND85**
	1	5 hp	11 gpm	650 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D05	20 in	17 in	35 in	T07C405C03B0-01	**36ND88**
	1	5 hp	2.3 gpm	3,000 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H412	D03	20 in	17 in	35 in	T56C405R02S0-01	**36ND81**
	1	5 hp	3.7 gpm	2,000 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D03	20 in	17 in	35 in	T58C405R02S0-01	**36ND82**
	1	5 hp	3 gpm	2,500 psi	3/4"-16 (SAE 8)	208-230/460V AC	3		D03	20 in	17 in	36	T2VC405C02F1-01	**38VP28**
	1	5 hp	4.4 gpm	1,550 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D03	20 in	17 in	35 in	T16C405C02F0-03	**36ND83**
	1	5 hp	4.5 gpm	1,600 psi	3/4"-16 (SAE 8)	208-230/460V AC	3		D03	20 in	17 in	36	T3VC405C02F1-01	**38VP29**
	1	5 hp	5 gpm	1,400 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D03	20 in	17 in	35 in	T64C405C02F0-01	**36ND84**
	1	5 hp	6.9 gpm	1,000 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D05	20 in	17 in	35 in	T65C405C03B0-01	**36ND86**
	1	5 hp	8.8 gpm	800 psi	3/4"-16 (SAE 8)	208-230/460V AC	3	1H417	D05	20 in	17 in	35 in	T66C405C03B0-01	**36ND87**
	2	3 hp	11.0/2.8 gpm	1,500 psi	7/8"-14 (SAE 10)	208-230/460V AC	3	1H417	D05	20 in	15 in	35 in	T92C355C93F0-01	**36ND89**
	2	5 hp	11.0/2.8 gpm	2,500 psi	7/8"-14 (SAE 10)	208-230/460V AC	3	1H417	D05	20 in	15 in	35 in	T92C405C93F0-01	**36ND80**
	2	5 hp	16.0/3.8 gpm	2,000 psi	7/8"-14 (SAE 10)	208-230/460V AC	3	1H417	D05	20 in	15 in	35 in	T94C405C93F0-01	**36ND90**

Power Unit Accessories

Reservoirs—Variable size for AC and DC power units.

Valve Manifold Kit—D03 manifold is for use with 1.6-gal. units (1/4 NPT remote mount and direct mount options).

Electric Lowering Valve Kit Assemblies—Provide simple installation into Monarch power units. Good for use in raise-hold lower applications where increased efficiency and exact positioning of the cylinder needs to be provided. Consist of a differential poppet-type and has a 2-way/2-position normally closed valve.

Nom. Cap. (gal.)	Construc.	H (in.)	L (in.)	W (in.)	Mfr. Model	Item No.
Hydraulic Power Unit Reservoir						
1.0	Steel	6.0	9	6	500206406042	**45DV80**
1.75	Steel	6.0	13½	6	500206406072	**45DV83**
2.5	Plastic	6¾	20	6¾	500206414188	**45DV78**
2.9	Steel	6¼	15	7¼	500206406864	**45DV81**
2.9	Steel	6¼	15	7¼	500206406076	**45DV84**
4.0	Plastic	6¾	26	6¾	500206414170	**45DV85**
4.0	Plastic	10	18	9	500206414224	**45DV79**
4.5	Steel	10¼	10	10¼	500206414249	**45DV82**
Valve Manifold Kit						
1/4" NPT, Remote Mounting					500204901762	**45DV86**
Electric Lowering Valve						
24VDC					500205524369	**45DV87**
110VAC					500205524370	**45DV88**

BUCHER hydraulics
MONARCH Hydraulics, Inc.

45DV80

AC Hydraulic Power Unit for Auto Hoists

- 208/230V, single-phase, 18.5A
- Includes #12 AWG 3-wire, 18"L cord

Rugged power unit is for use in 2- and 4-post auto hoists with single-acting cylinders to raise, hold, and lower. High-torque AC motor is capable of starting up under load. Adjustable, high-efficiency VM01 relief valve and momentary push button start switch. Hardened steel valve parts are field serviceable.

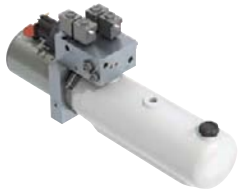
Reservoir Cap.	HP	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
3.8 gal	2 hp	2 gpm	2,400 psi	9/16"-18 (SAE 6)	38 3/16 in	10 5/32 in	12 3/16 in	M-4509-0217	**36NE14**

BUCHER hydraulics
MONARCH Hydraulics, Inc.

DC Snowplow Power Unit

12VDC unit allows remote operation of a truck-mounted snowplow. Includes built-in crossover reliefs which help protect snowplow blades from damaging obstructions and a heavy-duty remote control station that operates the blade up/down and left/right when used with 1 single- and 1 double-acting cylinder. Adjustable relief is preset at 2500 psi for larger blades. Included 2-qt. nominal plastic reservoir. Horizontal mounting only.

Reservoir Cap.	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
0.5 gal	2 gpm	3,000 psi	1/4"-18 NPT	22 3/8 in	6 7/32 in	9 21/32 in	M-3593-0164	**36NE13**



BUCHER hydraulics
MONARCH Hydraulics, Inc.

12VDC Power Units with Control Station

MONARCH

Basic Power Unit—For remote requirements using special manifolds for control.

Manual Release—Designed for single-acting cylinders on lift, hold, and lower circuits. Features a multidirectional handle control. Includes a manual lowering valve.

Remote Release with Control Station—Controls lift and hold circuits; includes a solenoid lowering valve, and 10-ft. cord for start and lower functions on single-acting cylinders.

Birotational Power Unit with Control Station—For use with horizontally configured cylinders. Directional solenoid valves are not required for use in double-acting cylinder applications. Includes 10-ft. cord.

Remote Double-Acting Power Unit—2-position, 4-way solenoid valve allows bidirectional control of double-acting cylinders and hydraulic motor applications. Includes a pilot-operated check valve and relief valve.

Note: Go to Grainger.com® for Accessory Control Stations. Search for "Control Station for Power Unit".

MAXIM™

For Power Up and Power Down operations and has a check valve, preventing reverse flow and protect pump. 35LP42 is for load holding in 1 direction. Includes a relief valve and manual valve. 35LP41 lifts, holds, and lowers and is prewired with a quick-disconnect remote. Horizontal mounting.

CHIEF

Solenoid-operated unit is designed to lift, hold, and lower and comes with a wired remote control.

36NE07

Description	Reservoir Cap.	Nominal Flow	Max. Pressure	Pressure Port	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
Basic Power Unit	1 gal	2.5 gpm	3,000 psi	9/16"-18 (SAE 6)	18 3/8 in	7 1/8 in	7 1/2 in	Monarch	M-3504-0239	**36NE08**
Manual Release	1 gal	2.5 gpm	3,000 psi	9/16"-18 (SAE 6)	18 3/8 in	6 11/16 in	7 15/32 in	Monarch	M-3313-0106	**36NE05**
Remote Release with Control Station	1 gal	2.5 gpm	3,000 psi	9/16"-18 (SAE 6)	18 3/8 in	7 1/2 in	7 1/2 in	Monarch	M-3519-0419	**36NE06**
Birotational Power Unit with Control Station	1 gal	2 gpm	3,000 psi	7/16"-20 (SAE 4)	18 1/32 in	8 11/32 in	7 13/32 in	Monarch	B-3530-0104	**36NE07**
Double-Acting Power Unit	0.75 gal	1.3 gpm	2,500 psi	1/4" NPT	20 1/2 in	9 in	7 1/2 in	Maxim	253109	**35LP42**
Remote Double-Acting Power Unit	1 gal	2.5 gpm	3,000 psi	1/4"-18 NPT	18 3/8 in	8 1/8 in	7 19/32 in	Monarch	M-3554-0157	**36NE09**
Remote Double-Acting Power Unit	0.75 gal	1.3 gpm	2,500 psi	9/16"-18 (SAE 6)	22 3/8 in	8 3/4 in	8 1/4 in	Chief	253100	**46C520**
Remote Double-Acting Power Unit	3 gal	1.3 gpm	2,500 psi	9/16"-18 (SAE 6)	23 1/4 in	8 1/4 in	9 3/4 in	Maxim	253147	**35LP41**
Remote Single-Acting Power Unit	1.5 gal	1.3 gpm	2,500 psi	9/16"-18 (SAE 6)	22 1/4 in	10 in	8 3/4 in	Chief	253119	**46C519**

DC Lift Truck Power Units and Motor Pump Assembly

- Valve pressure preset to 2500 psi

36NE11 and 36NE12—Designed for single-acting cylinders on lift, hold, and lower circuits usually found on forklifts and other material handling equipment. Units include check, adjustable relief, and solenoid lowering valves. Horizontal or vertical mounting with a 45° elbow provided for vertical mounting.

36NE10—Motor and pump unit includes check and relief valves. Vertical or horizontal mounting. Requires a remote reservoir.

Note: Does not include remote handset.

36NE10

Reservoir Cap.	Nominal Flow	Max. Pressure	Voltage	Pressure Port	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Hydraulic Power Units with Remote Control Station									
0.6 gal	2.5 gpm	3,000 psi	12V DC	9/16"-18 (SAE 6)	16 3/8 in	7 1/2 in	7 1/2 in	M-3519-0420	**36NE11**
0.6 gal	3.4 gpm	3,000 psi	24V DC	9/16"-18 (SAE 6)	16 3/8 in	7 1/2 in	7 1/2 in	M-3519-0421	**36NE12**
DC Motor Pump Assembly									
—	2.5 gpm	3,000 psi	12V DC	9/16"-18 (SAE 6)	10 29/32 in	5 7/16 in	7 9/16 in	M-3326-0218	**36NE10**

Char-Lynn®

General Purpose Motors/Rotary Actuators

5PZF8

- Straight-keyed shafts
- Max. oil temp.: 180°F

H Series—Direct-drive motors are designed with spool valve technology for medium-duty applications. Include low-speed valving. Shaft speed and rotation direction can be controlled easily throughout the motors' entire speed range.

- Min. oil viscosity: 100 SUS
- Shaft size: 1" dia. x 1¾"L

S Series—Similar to H Series motors, but with precision-machined rollers to provide rolling contact support. Rollers further reduce friction for increased efficiency and extended motor life.

- Min. oil viscosity: 70 SUS
- Shaft size: 1" dia. x 1¾"L

Displacement (Cu. In./Rev.)	Max. RPM	Pressure Rating (psi)	2 BOLT, 3.25 IN PILOT MOUNTING Mfr. Model	Item No.	1.75 IN PILOT, 4 BOLT MOUNTING Mfr. Model	Item No.
H Series						
½-14 NPTF Port Thread						
2.8	969 RPM	2400	101-1025	**5PZG6**	101-1001	**5PZF8**
4.5	760 RPM	2400	101-1026	**5PZG7**	101-1002	**5PZF9**
5.9	585 RPM	2400	101-1027	**5PZG8**	—	—
7.3	469 RPM	2400	101-1706	**5PZH3**	101-1755	**5PZH5**
8.9	385 RPM	2300	101-1707	**5PZH4**	101-1756	**5PZH6**
9.7	353 RPM	2250	—	—	101-1004	**5PZG1**
11.3	304 RPM	2150	101-1029	**5PZG9**	—	—
14.1	243 RPM	2000	101-1030	**5PZH0**	101-1006	**5PZG4**
17.9	192 RPM	1800	101-1031	**5PZH1**	101-1007	**5PZG5**
22.6	152 RPM	1500	101-1032	**5PZH2**	101-1008	**5PZG3**
½-14 NPTH Port Thread						
5.9	585 RPM	2400	—	—	101-1003	**5PZG0**
11.3	304 RPM	2150	—	—	101-1005	**5PZG2**

Displacement (Cu. In./Rev.)	Max. RPM	Pressure Rating (psi)	2 BOLT, 3.25 IN PILOT MOUNTING Mfr. Model	Item No.	1.75 IN PILOT, 4 BOLT MOUNTING Mfr. Model	Item No.
⅞-14 UNF Port Thread						
2.2	1,021 RPM	1800	101-1700	**4TY66**	101-1749	**4TY82**
2.8	969 RPM	1800	101-1033	**4TY67**	101-1009	**4TY83**
3.6	953 RPM	1800	101-1701	**4TY68**	101-1750	**4TY84**
4.5	760 RPM	1800	101-1034	**4TY69**	101-1010	**4TY85**
5.9	585 RPM	1800	101-1035	**4TY70**	101-1011	**4TY86**
7.3	469 RPM	1800	101-1702	**4TY71**	101-1751	**4TY87**
8.9	385 RPM	1700	101-1703	**4TY72**	101-1752	**4TY88**
9.7	353 RPM	1650	101-1036	**4TY73**	101-1012	**4TY89**
11.3	304 RPM	1600	101-1037	**4TY74**	101-1013	**4TY90**
14.1	243 RPM	1450	101-1038	**4TY75**	101-1014	**4TY91**
17.9	192 RPM	1350	101-1039	**4TY76**	101-1015	**4TY92**
22.6	152 RPM	1250	101-1040	**4TY77**	101-1016	**4TY93**
S Series						
½-14 NPTF Port Thread						
3.6	962 RPM	2500	103-1540	**5PZK1**	103-1573	**5PZK4**
4.6	762 RPM	2500	103-1026	**5PZJ4**	103-1002	**5PZH7**
5.7	585 RPM	2500	103-1027	**5PZJ5**	103-1003	**5PZH8**
7.3	470 RPM	2500	103-1541	**5PZK2**	103-1574	**5PZK5**
8.8	385 RPM	2350	103-1542	**5PZK3**	—	—
10.1	353 RPM	2300	103-1028	**5PZJ6**	103-1004	**5PZH9**
11.4	303 RPM	2250	103-1029	**5PZJ7**	103-1005	**5PZJ0**
13.7	243 RPM	2050	103-1030	**5PZJ8**	103-1006	**5PZJ1**
18.2	192 RPM	1800	103-1031	**5PZJ9**	103-1007	**5PZJ2**
22.7	153 RPM	1500	103-1032	**5PZK0**	—	—
½-14 NPTH Port Thread						
22.7	153 RPM	1500	—	—	103-1008	**5PZJ3**
⅞-14 UNF Port Thread						
3.6	962 RPM	2000	—	—	103-1570	**4UA14**
4.6	762 RPM	2000	—	—	103-1010	**4UA15**
5.7	585 RPM	2000	—	—	103-1011	**4UA16**
7.3	470 RPM	2000	—	—	103-1571	**4UA17**
8.8	385 RPM	1900	—	—	103-1572	**4UA18**
10.1	353 RPM	1900	—	—	103-1012	**4UA19**
11.4	303 RPM	1850	103-1037	**4UA10**	103-1013	**4UA20**
13.7	243 RPM	1700	103-1038	**4UA11**	—	—
13.7	224 RPM	1700	—	—	103-1014	**4UA21**
18.2	192 RPM	1500	103-1039	**4UA12**	103-1015	**4UA22**
22.7	153 RPM	1300	103-1040	**4UA13**	103-1016	**4UA23**

Birotational Gear Pumps and Pumps/Motors

4F659

GC Series—Viton® lip seal, outboard bearing, and reversing check valves. Cast iron housing. 4-bolt 4F17 mounting with ½" keyed x 1½" long shaft extension and side outlet ports. Max. shaft speed is 5000 rpm; min. speed is 750 rpm. 4F652 to 4F659 function as either pumps or motors.

Displacement (Cu. In./Rev.)*	GPM @ 1800 rpm and 1000 psi	GPM @ 3600 RPM and 1000 PSI	Max. Continuous PSI	Ports (Inlet)	Ports (Outlet)	Mfr. Model	Item No.
Hydraulic Gear Pump							
0.065	0.51	1.01	3,000	9/16-18	9/16-18	1002496	**4F649**
0.097	0.6	1.2	3,000	9/16-18	9/16-18	1002497	**4F650**
0.129	0.8	1.6	3,000	¾-16	¾-16	1002498	**4F651**
Hydraulic Gear Pump/Motor							
0.194	1.2	2.5	3,000	¾-16	¾-16	1002499	**4F652**
0.258	1.6	3.3	3,000	¾-16	¾-16	1070054	**4F653**
0.323	2.6	5.3	3,000	⅞-14	⅞-14	1070043	**4F654**
0.388	2.4	5	3,000	⅞-14	⅞-14	1070045	**4F655**
0.453	2.8	5.8	2,750	⅞-14	⅞-14	1070047	**4F656**
0.517	3.1	8	2,500	⅞-14	⅞-14	1070049	**4F657**
0.647	3.9	8.3	2,000	⅞-14	⅞-14	1070035	**4F658**
0.711	4.3	9.1	1,800	⅞-14	⅞-14	1070033	**4F659**

** 1 cu. in./rev. = 16.4 cu. cm (cc).*

Hydraulic Gear Pumps

- Right-hand rotation
- Pressure balanced
- SAE ORB Inlet/Outlet ports
- 10-micron filtration required

These reliable, high-efficiency gear pumps provide a comparably continuous, nonpulsating flow. Through-bore, bushing-type pumps for intermittent and continuous-duty applications. Lightweight design features aluminum center section with cast-aluminum end covers.

Displacement (Cu. In./Rev.)*	GPM @ 1800 rpm and 1000 psi	GPM @ 3600 RPM and 1000 PSI	Max. Continuous PSI	Min. RPM	Max. RPM	Ports (Inlet)	Ports (Outlet)	Shaft Extension (in.)	Mfr. Model	Item No.
W600 Series, SAE AA 2 Bolt										
0.183	1.4	2.7	4,000	700 RPM	4,000 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850222	**1DBC3**
0.214	1.6	3.1	4,000	700 RPM	4,000 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850223	**1DBC4**
0.244	1.8	3.6	4,000	700 RPM	4,000 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850224	**1DBC5**
0.305	2.2	4.5	4,000	700 RPM	4,000 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850225	**1DBC6**
0.427	3.1	6.3	4,000	700 RPM	3,450 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850226	**1DBC7**
0.61	4.5	8.9	3,200	700 RPM	2,800 RPM	⅞-14	¾-16	½ x 1½ Keyed	1850227	**1DBC8**
W900 Series, SAE A 2 Bolt										
0.37	2.7	5.4	4,000	500 RPM	4,000 RPM	⅞-14	¾-16	¾ x 1¼ Keyed	1800288	**4F665**
0.49	3.6	7.1	4,000	500 RPM	4,000 RPM	1 1/16-12	⅞-14	¾ x 1¼ Keyed	1800289	**4F666**
0.67	4.9	9.8	4,000	500 RPM	3,600 RPM	1 1/16-12	⅞-14	¾ x 1¼ Keyed	1800290	**4F667**
0.85	6.3	—	4,000	500 RPM	3,300 RPM	1 1/16-12	⅞-14	¾ x 1¼ Keyed	1800291	**4F668**
0.98	7.1	—	4,000	500 RPM	3,000 RPM	1 1/16-12	⅞-14	¾ x 1¼ Keyed	1800292	**4F669**
1.16	8.5	—	4,000	500 RPM	3,000 RPM	1 5/16-12	1 1/16-12	¾ x 1¼ Keyed	1800293	**4F671**
1.4	10.5	—	3,200	500 RPM	2,500 RPM	1 5/16-12	1 1/16-12	¾ x 1¼ Keyed	1802741	**4NE30**
1.6	12	—	2,700	500 RPM	2,400 RPM	1 5/16-12	1 1/16-12	¾ x 1¼ Keyed	1802742	**4NE31**

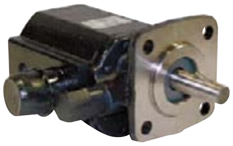
** 1 cu.-in. = 16.4 cu.-cm (cc).*

4F665

2-Stage Hi/Low Gear Pumps

For presses, log splitters, clamping units, and compactors. Automatic 2-speed operation. First-stage pump unloads fully at 450 psi; second stage operates up to 3000 psi. Generally, 5-HP input is required for 4F663 and 8-HP for 4F664. Clockwise rotation. ½" dia. x 1½"L drive shaft with #404 Woodruff drive key. Motor coupling and adapter not included. Direct drive only. 5ZPL6 and 5ZPL7 have SAE "A" ⅝" keyed shaft.

Nom. Flow (gpm)	HP Req.	Input RPM	GPM @ Pressure 250 psi	GPM @ Pressure 2000 psi	Displacement @ PSI (cubic inches/rev.) Low	Displacement @ PSI (cubic inches/rev.) High	Ports Inlet	Ports Outlet	Max. psi 1st Stage	Max. psi 2nd Stage	Mounting Flange	Mfr. Model	Item No.
11.0	5 hp	3,600	10.94	2.72	0.517	0.194	1 in Tube	½ in NPTF	600	3,000	4F17	1002508	**4F663**
13.6	10 hp	3,600	13.6	2.6	0.647	0.194	1 in Tube	½ in NPTF	600	3,000	4F17	1003754	**5ZPL8**
16.0	11 hp	3,600	15.91	3.62	0.776	0.258	1 in Tube	½ in NPTF	600	3,000	4F17	1002509	**4F664**
22	15 hp	3,600	22	6.3	0.93	0.465	1 in NPTF	¾ in NPTF	750	3,000	SAE A	1080085	**5ZPL6**
28	20 hp	3,600	28	6.3	1.395	0.465	1 in NPTF	¾ in NPTF	750	3,000	SAE A	1080086	**5ZPL7**



4F663

Parker

Threaded Cartridge Valves, Bodies, and Coils

4DML7 and 4UA84—Provide uncompensated adjustable flow control.

4DML8 and 4UA86—For continuous duty applications. Best option for setting hydraulic system pressure.

4DML9 and 4UA87—Used as crossover relief valves to limit pressure spikes.

4DMN1 and 4UA85—Can be used in a leg of a hydraulic system to reduce pressure lower than the system pressure. Also act as a relief valve, relieving pressure spikes between regulated port and actuator.

4DMK4—Provides control of an overrunning load and metering, and is suitable for holding a load.

4DML1—Flow goes in the nose, and pressure compensated flow goes out top port 3, while bypass flow is unregulated and goes out port 2.

4DML3—Consists of a steel ball that can seal against 1 of 2 adjacent seats, providing a path from the highest pressure signal to another function.

4DML5—In the side-to-nose direction, it performs as a standard needle valve, limiting flow. Allows free flow in the reverse direction, nose to side.

4UA88—Use for on/off or as a selector switch for 2 functions. Often used for raising and lowering a single-acting cylinder.

4UA89—Used for reversing valve for raising and lowering a double-acting cylinder or to control the actuation of a hydraulic motor.

4UA90 and 4UA91—Require 2 coils to operate.

Hydraulic Cartridge Valve Base—Allow individual piping of threaded cartridge valves.

Cartridge Valve Type	Valve Cavity Size	Max. Flow (gpm)	Max. Pressure	Mfr. Model	Item No.
Threaded Cartridge Valves					
08 Size Valves					
Check	C08-2	10	5,000 psi	CVH081P	**4DML6**
Needle	C08-2	10	5,500 psi	NVH081K	**4DML7**
Pilot-Operated Relief	C08-2	20	5,000 psi	RAH081S50	**4DML8**
Direct Acting Differential Area Relief	C08-2	12	5,000 psi	RDH083S50	**4DML9**
Pressure Reducing	C08-3	8	5,000 psi	PRH081S50	**4DMN1**
Normally Closed Manual Poppet	C08-2	8	3,000 psi	DL081K	**4DMN4**
Normally Open Solenoid	C08-2	8	3,600 psi	DSL081N	**4DMN2**
Normally Closed Solenoid	C08-2	8	3,600 psi	DSL081C	**4DMN3**
10 Size Valves					
Check	C10-2	16	5,000 psi	CVH103P	**4UA81**
Needle	C10-2	16	5,500 psi	NVH101K	**4UA84**
Pilot-Operated Relief	C10-2	30	5,000 psi	RAH101S50	**4UA86**
Differential Area Relief	C10-2	20	5,000 psi	RDH103S50	**4UA87**
Reducing/Relieving	C10-3	15	5,000 psi	PRH101S50	**4UA85**
Counterbalance	C10-3	12	5,000 psi	CB101AS30	**4DMK4**
Pressure Compensated Flow Control Restrictive Style	C10-2	10.6	6,000 psi	J04E2ZN	**4DMK9**
Pressure Compensated Flow Control w/Bypass	C10-3	12	6,000 psi	J04D3ZN	**4DML1**
Single Pilot-Operated Check	C10-3	8	5,000 psi	CPH104P	**4DML2**
Shuttle	C10-3	10	5,000 psi	CSH101B	**4DML3**
Normally Closed Manual Poppet	C10-2	13	3,500 psi	DL101K	**4DML4**
Needle w/ Reverse Check	C10-2	12	3,000 psi	FV101S	**4DML5**
Normally Open Solenoid	C10-2	15	3,600 psi	DSL101N	**4UA83**
Normally Closed Solenoid	C10-2	15	3,600 psi	DSL101C	**4UA82**
3-Way Solenoid	C10-3	4.5	3,600 psi	DSL103A	**4UA88**
Directional Control Valve	C10-4	8	3,600 psi	DSL104B	**4UA89**
Directional Control Valve	C10-4	7	3,600 psi	DSL105C1	**4UA90**
Directional Control Valve	C10-4	5	3,600 psi	DSL105C9	**4UA91**
10 Size Valve Assemblies					
Double Pilot-Operated Check		15	5,000 psi	CDPH103A20-8T	**4DMK7**

Fits Valve No.	Body Material	(F)NPT Port (in.)	Port Size	Mfr. Model	Item No.
Hydraulic Cartridge Valve Base					
4DML6, 4DML7, 4DML8, 4DML9, 4DMN2, 4DMN3, 4DMN4	Aluminum		#6 SAE	B08-2-A6T	**4DMN5**
	Steel	—	#6 SAE	B08-2-6T	**4DMN6**
4DMN1	Aluminum	—	#6 SAE	B08-3-A6T	**4DMN7**
	Steel	—	#6 SAE	B08-3-6T	**4DMN8**
4DMK9, 4DML4, 4DML5, 4UA81, 4UA82, 4UA83, 4UA84, 4UA86, 4UA87	Aluminum	SAE-8	#8 SAE	B10-2-A8T	**4UA95**
	Steel	—	#8 SAE	B10-2-8T	**4DMK6**
4DMK4, 4DML1, 4DML2, 4DML3, 4UA85, 4UA88	Aluminum	SAE-8	#8 SAE	B10-3-A8T	**4UA96**
	Steel	—	#8 SAE	B10-3-8T	**4DMK5**
4UA89, 4UA90, 4UA91	Aluminum	SAE-8	#8 SAE	B10-4-A8T	**4UA97**

Voltage	Termination	Fits Valve Number	Mfr. Model	Item No.
Solenoid Valve Coils				
08 Size Coils				
12V DC	Double Leads	4DMN2, 4DMN3	CCP012L	**4DMN9**
	Double Spade		CCP012S	**4DMP3**
24V DC	Double Leads		CCP024L	**4DMP1**
	Double Spade		CCP024S	**4DMP4**
110/120V AC	Conduit Connector		CCP115C	**4DMP2**
10 Size Coils				
12V DC	Double Leads	4UA82, 4UA83, 4UA88, 4UA89, 4UA90, 4UA91	CAP012L	**4DMK2**
	Double Spade		CAP012S	**4DMJ9**
24V DC	Double Leads		CAP024L	**4DMK3**
	Double Spade		CAP024S	**4DMK1**
110/120V AC	Conduit Connector		CAP115C	**4DMJ8**

4UA84

4UA86

4UA82

4UA88

4DMK7

Flow Control, Needle, and Check Valves

1A042

Brass valves are for pneumatic and medium-pressure hydraulic applications. Steel valves are for high-pressure hydraulic applications.

Flow Control—Provide precision flow control in 1 direction and automatically allow unrestricted free flow in opposite direction. 2-step needle allows fine adjustment at low flow.

Needle—Used as speed controls where a reverse flow check valve is not needed. May be used to control flow in both directions.

Check—Provide free flow in 1 direction and dependable shutoff in the opposite direction. Cracking pressure: 5 psi.

Note: Parker, DT, CV, and DC check valves are available; on Grainger.com®, search for "check valves."

		FLOW CONTROL VALVES				NEEDLE VALVES				CHECK VALVES			
Port (in.)	Flow Range (gpm)	L (in.)	H* (in.)	Mfr. Model	Item No.	L (in.)	H* (in.)	Mfr. Model	Item No.	L (in.)	H* (in.)	Mfr. Model	Item No.
Brass Valves 2000 psi													
⅛-27	3	2.0 in	1.54 in	F200B	**1A853**	1.5 in	1.54 in	N200B	**1A861**	2.0 in	0.63 in	C200B	**1A857**
¼-18	5	2.63 in	1.79 in	F400B	**1A854**	2.0 in	1.79 in	N400B	**1A862**	2.63 in	0.81 in	C400B	**1A858**
⅜-18	8	2.75 in	2.18 in	F600B	**1A855**	2.5 in	2.18 in	N600B	**1A863**	2.75 in	1.0 in	C600B	**1A859**
½-14	15	3.44 in	2.7 in	F800B	**1A856**	2.62 in	2.7 in	N800B	**1A864**	3.44 in	1.25 in	C800B	**1A860**
Steel Valves 3000 psi													
¾-14	25	3.88 in	3.38 in	F1200S	**1A865**	—	—	—	—	—	—	—	—
Steel Valves 5000 psi													
¼-18	5	2.63 in	1.79 in	F400S	**1A041**	2.0 in	1.79 in	N400S	**1A047**	2.63 in	0.81 in	C400S	**1A044**
⅜-18	8	2.75 in	2.18 in	F600S	**1A042**	2.5 in	2.18 in	N600S	**1A048**	2.75 in	1.0 in	C600S	**1A045**
½-14	15	3.44 in	2.7 in	F800S	**1A043**	2.62 in	2.7 in	N800S	**1A049**	3.44 in	1.25 in	C800S	**1A046**
¾-14	25	—	—	—	—	3.25 in	3.38 in	N1200S	**1A867**	3.88 in	1.5 in	C1200S	**1A866**

*** Height of valves is measured from center of port with adjustment knob fully open.***

6PAA3

High-Pressure Carbon Steel Ball Valves

- Max. pressure: 6000 psi

Excellent for use in high-pressure hydraulic oil systems. Lockable handle valves have a handle that can be locked into position using a padlock that has a 5⁄16"-dia. shackle (not included).

	STANDARD HANDLE		LOCKABLE HANDLE	
Port Size	Mfr. Model	Item No.	Mfr. Model	Item No.
NPT				
¼ in NPT	BVHP04NSS1N	**6PAA1**	BVHP04NSS1NA	**6PAC7**
⅜ in NPT	BVHP06NSS1N	**6PAA2**	BVHP06NSS1NA	**6PAC8**
½ in NPT	BVHP08NSS1N	**6PAA3**	BVHP08NSS1NA	**6PAC9**
¾ in NPT	BVHP12NSS1N	**6PAA4**	BVHP12NSS1NA	**6PAD0**
1 in NPT	BVHP16NSS1N	**6PAA5**	BVHP16NSS1NA	**6PAD1**
1¼ in NPT	BVAH20NSS1N	**6PAA6**	BVAH20NSS1NA	**6PAD2**
1½ in NPT	BVAH24NSS1N	**6PAA7**	BVAH24NSS1NA	**6PAD3**
2 in NPT	BVAH32NSS1N	**6PAA8**	—	—
SAE				
#4 SAE	BVHP04SSS1N	**6PAA9**	—	—
#6 SAE	BVHP06SSS1N	**6PAC0**	—	—
#8 SAE	BVHP08SSS1N	**6PAC1**	—	—
#12 SAE	BVHP12SSS1N	**6PAC2**	BVHP12SSS1NA	**6PAD8**
#16 SAE	BVHP16SSS1N	**6PAC3**	BVHP16SSS1NA	**6PAD9**

38D927

Hydraulic Double Pilot-Operated Check Valves

- Cast iron body
- Reverse free flow

Inlet Port Size	Outlet Port Size	Max. Flow	Max. Pressure	Mfr. Model	Item No.
½ in NPT	½ in NPT	25 gpm	2,000 psi	**LO-50-D**	**38D927**
⅝ in NPT	⅝ in NPT	25 gpm	3,000 psi	**LO-10-D**	**38D928**

6X843

4BA48

6PAE5

4HL35

Relief Valves

Control maximum pressure within a hydraulic circuit. 6X843 is designed for full flow with low pressure drop.

4HL34 is a differential poppet inline relief that has a minimum variation between cracking and full flow pressures.

4BA48 to 4BA50 have 2-stage balanced piston design, providing fast response and minimizing pressure override.

4HL35 is a double differential poppet relief that is used in systems that require crossover relief protection such as a hydraulic motor.

Item	Port Size	Pressure Range	Max. Flow	Brand	Mfr. Model	Item No.
Single						
Relief Valve	½ in NPT	1000 to 2500 psi	16 gpm	Prince	RD1850H	**6X843**
Adjustable Relief Valve	⅞"-14 UNF	125 to 1000 psi	45 gpm	Eaton Vickers	CS-03-B50	**4BA48**
	⅞"-14 UNF	500 to 2000 psi	45 gpm	Eaton Vickers	CS-03-C50	**4BA49**
	⅞"-14 UNF	1500 to 3000 psi	45 gpm	Eaton Vickers	CS-03-F50	**4BA50**
Inline Relief Valve	¾ in NPT	1500 to 3000 psi	30 gpm	Prince	RV-2H	**4HL34**
Hydraulic Valve	#12 SAE	100 to 1532 psi	53 gpm	Parker	R4V065B110A1	**6PAE3**
	#12 SAE	100 to 3045 psi	53 gpm	Parker	R4V065B310A1	**6PAE4**
	#12 SAE	100 to 5075 psi	53 gpm	Parker	R4V065B510A1	**6PAE5**
Pressure Relief Valve	¾ in NPT	0 to 2000 psi	60 gpm	Parker Gresen	RPL-75-A	**38D924**
	#12 SAE	0 to 5000 psi	60 gpm	Parker Gresen	RPL-12-A	**38D923**
Double						
Relief Valve	¾ in NPT	1500 to 3000 psi	30 gpm	Prince	DRV-2HH	**4HL35**

38D925

Hydraulic 2-Position Selector Valves

Port Size	Valve Ways and Positions	Overall Length	Max. Pressure	Mfr. Model	Item No.
½ in NPT	3-Way/2-Position	5 13⁄16 in	2,000 psi	**S-50**	**38D932**
¾ in NPT	3-Way/2-Position	6 ⅝ in	2,000 psi	**S-75**	**38D934**
¾ in NPT	6-Way/2-Position	8 ½ in	2,000 psi	**DS-75**	**38D926**
#8 SAE	3-Way/2-Position	5 13⁄16 in	3,000 psi	**S-8**	**38D931**
#12 SAE	3-Way/2-Position	6 ⅝ in	3,000 psi	**S-12**	**38D933**
#12 SAE	6-Way/2-Position	8 ½ in	3,000 psi	**DS-12**	**38D925**

Looking for High-Pressure Fittings and Couplers

Find High-Pressure Hydraulic Fittings and Couplers on pages 2486 and 2489, or for our full selection go to **grainger.com/hydraulic-fittings**

Find Check, Relief, and Flow Control Valves at Grainger.com®.

Adjustable-Flow Control Valves

Pressure compensated operation varies speed smoothly over the full range. Once speed is set with the lever, it remains constant regardless of load variation.

6X842

Max. Flow	Outlet Port Size	Max. Pressure	Adjustable Relief Valve	Mfr. Model	Brand	Item No.
16 gpm	½ in NPT	3,000 psi	No	RD-150-16	Prince	**5PP06**
	½ in NPT	3,000 psi	Yes	RDRS-150-16	Prince	**5PP08**
30 gpm	¾ in NPT	3,000 psi	Yes	RDRS-175-30	Prince	**6X842**
	¾ in NPT	3,000 psi	No	RD-175-30	Prince	**5PP07**
35 gpm	¾ in NPT	2,000 psi	No	CFQ-A-75	Parker Gresen	**38D922**
	#12 SAE	3,000 psi	No	CFQ-A-12	Parker Gresen	**38D921**

Flow Dividers

4F661

Accurately divide flow from a single pump source to a pair of matched cylinders or fluid motors. Gear-type rotary flow dividers synchronize 2 parallel motions hydraulically rather than mechanically. Max. outlet pressure: 4500 psi. Max. speed: 4500 rpm. Integral differential relief valves for each circuit limit pressure intensification. Cast-iron body.

Flow Rate (gpm)	Displacement (cc/rev)	Operating Pressure (psi)	SAE Port Sizes (in.) Inlet	Outlet	Brand	Item No.
2.4-5	0.129	3,000	¾ -16	¾ -16	Concentric	**4F660**
5-10	0.258	2,300	⅞ -14	⅞ -14	Concentric	**4F661**
10-20	0.581	2,750	1 5/16-12	⅞-14	Concentric	**4F662**
35	—	2,000	¾	¾	Parker Gresen	**38D930**
35	—	2,500	1 1/16-12	1 1/16-12	Parker Gresen	**38D929**

D03 and D05 Size Solenoid-Operated Directional Valves

Bolt kits for valves available separately.

Note: Additional solenoid-operated directional valves are available; on Grainger.com®, search for "solenoid-operated directional valves."

D03 SIZE

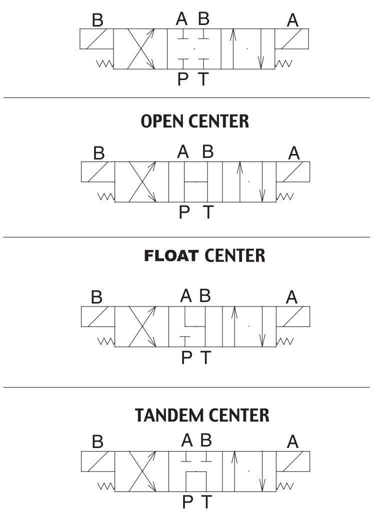
- Working port pressure (P, A, B): 5000 psi max.
- Max. tank pressure: 1500 psi AC, 3000 psi DC
- AC valves have conduit box-style termination; DC valves require wire connector plugs, 4UB23 and 4UB24, sold separately

Optimized valve body/spool design minimizes pressure drop and energy consumption. Compatible with D03 and CETOP-3 mounting patterns.

D05 SIZE

- Max. operating pressure: 5000 psi
- Max. tank pressure: 1500 psi AC, 3000 psi DC
- Integral conduit box for wire termination

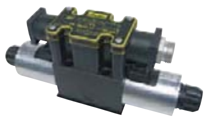
Feature higher machine productivity and uptime. Compatible with D05 and CETOP-5 mounting patterns. Solenoid/core tube design allows coils to be changed without removing valve from installation. Manual overrides.



Spool Type

Coil Volts	Spool Type	D03 VALVES Max. GPM @ 3000 psi	D03 Mfr. Model	D03 Item No.	D05 VALVES Max. GPM @ 3000 psi	D05 Mfr. Model	D05 Item No.
110-120 AC	Open	12.5	D1VW002CNYGF5	**2NMU2**	30	D3W002CNYK5	**5AE84**
	Closed	22	D1VW001CNYGF5	**2NMU3**	28	D3W001CNYK5	**4UB27**
	Float	12	D1VW004CNYGF5	**2NMU4**	17	D3W004CNYK5	**4UB28**
	Tandem	12.5	D1VW009CNYGF5	**2NMU5**	12	D3W009CNYK5	**4UB29**
12 DC	Open	20	D1VW002CNKW	**2NMU6**	40	D3W002CNKW	**4DJY6**
	Closed	20	D1VW001CNKW	**2NMU7**	40	D3W001CNKW	**4DJY7**
	Float	18.5	D1VW004CNKW	**2NMU8**	—	—	—
	Tandem	13.3	D1VW009CNKW	**2NMU9**	23	D3W009CNKW	**4DJY9**
24 DC	Open	20	D1VW002CNJW	**2NMV1**	—	—	—
	Closed	20	D1VW001CNJW	**2NMV2**	40	D3W001CNJW	**4DJZ2**
	Float	18.5	D1VW004CNJW	**2NMV3**	—	D3W004CNJW	**4DJZ3**
	Tandem	13.3	D1VW009CNJW	**2NMV4**	23	D3W009CNJW	**4DJZ4**

Description	D03 ACCESSORIES Port Size	D03 Mfr. Model	D03 Item No.	D05 ACCESSORIES Port Size	D05 Mfr. Model	D05 Item No.
Accessories for D03 and D05 Valves						
Subplate Bottom Port	SAE #8 (¾ x 16)	SPD24SS35	**4UB20**	½-14 NPTF	SPD34NS35	**4UB31**
	¼-18 NPTF	SPD22NS35	**4UB21**	—	—	—
Subplate Side Port	SAE #8 (¾ x 16)	SPD24SAS35	**4UB22**	—	—	—
Black Wire Connector Plug for Solenoid B	—	692914	**4UB23**	—	—	—
Gray Wire Connector Plug for Solenoid A	—	692915	**4UB24**	—	—	—
Bolt Kit for CETOP-03 Valves	—	BK209	**4UB25**	—	—	—
Subplate Side Port	SAE #8 (¾ x 16)	SPD34SAS35	**4UB32**	—	—	—
Bolt Kit for CETOP-05 Valves	—	—	—	—	BK98	**4UB33**
Cover Plate	—	SPD2C1EN35	**45NL42**	—	SPD3C1EN35	**45NL43**



2NMU3

4UB27

Monoblock Valves

- Load checks provided on all spools (except 1A967)
- All valves have direct-acting relief valves

Single-spool valves are 3-position and tandem center, 2- and 3-spool valves have a float spool. 6X845, 4HL36, 4HL37, 6W566, and 4HL32 can be converted to closed center or to power beyond operation; 6W565 can be converted to closed center only. 1A967 has a pressure detent release preset at 1200 psi.

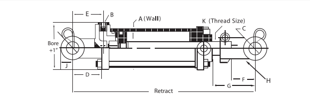
Note: Additional stack valves are available; on Grainger.com®, search for "stack valves."

6X844

6W566

Spool Action	Ways	Spools	Inlet/ Outlet Port Size NPT (in.)	Work Port Size NPT (in.)	Capacity gpm	Factory Relief Setting	Relief Range psi	Max. psi	Mfr. Model	Item No.	
Spring Center To Neutral	4	1	½	½	16	1500 psi @ 12 gpm	1000 to 2750	3000	RD2555T4ESA1	**6X844**	
	4	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512CA5A4B1	**6X845**	†*
Detented	4	1	¾	½	20	1500 psi @ 12 gpm	1000 to 2750	3000	RD2575T4EDA1	**6W565**	‡
	4	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512CB5A4B1	**4HL36**	‡
Spring Center to Neutral, 4th Position Detent	4	1	¾	½	25	2250 psi @ 3 gpm	1000 to 2750	2750	LS3000-1	**1A967**	
Spring Center To Neutral	3	1	¾	½	30	2000 psi @ 10 gpm	1500 to 3000	3000	RD512AA5A4B1	**4HL37**	†*
No. 1: Spring Center To Neutral and 4th Position Detent. No. 2: Spring Center To Neutral	4	2	¾	½	25	2000 psi @ 10 gpm	1500 to 3000	3000	RD522GCGA5A4B1	**6W566**	†*
No. 1: Spring Center To Neutral and 4th Position Detent. No. 2 and No. 3: Spring Center To Neutral	4	3	¾	½	25	2000 psi @ 10 gpm	1500 to 3000	3000	RD532GCCGAA5A4B1	**4HL32**	†*

** Power beyond requires Prince Number 40ZV88 plug. † Closed center requires Prince Number 40ZV87 plug. ‡ Closed center requires Prince Number 40ZV89. Repair parts can be ordered from your local Grainger branch.*



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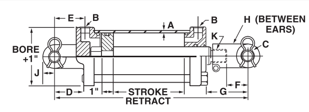


Prince

53PZ37

4HL44

CHIEF Prince

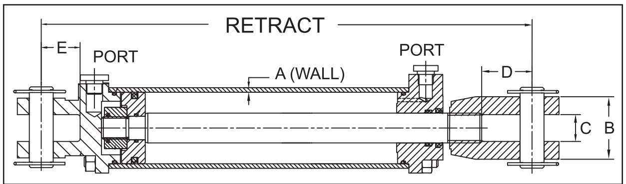
Double-Acting Tie-Rod Cylinders

2500 psi models feature: O-ring seal and vented back-up washers on piston, and U-cup on the gland. 3000 psi models feature: RoyalPlate Plus® coating on all piston rods which offers substantial performance enhancements and outstanding corrosion protection. Precision-honed tubes and ground and polished chromed piston rods. Ductile-iron piston with O-ring seal between piston rod and piston. Urethane U-cup rod seal, metal encased rod wiper (2½" bore and larger), crown seal on piston, nylon bearing on piston (4", 4½", and 5" bores), and hardened pins (4", 4½", and 5" bores). O-ring seal between tube and ductile-iron butt and gland casting.

Bore Dia.	Stroke Length	Retracted Length	Column Load	Rod Dia.	Max. Pressure	Dimensions (in.) A	B*	C	D	E	F	G	H	J	K	Mfr. Model	Item No.
Chief																	
2 in	4 in	14 ¼ in	9420 lb	1 ⅛ in	3,000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	3.490	1.167	1.060	1 ⅛-12	200411TCU3	**53PZ37**
2 in	8 in	20 ¼ in	9420 lb	1 ⅛ in	3,000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	5.490	1.167	1.060	1 ⅛-12	200811TCU3	**53PZ38**
2 in	20 in	30 ¼ in	7050 lb	1 ⅛ in	3,000 psi	3/16	SAE 8	1.000	2.020	2.693	2.125	3.490	1.167	1.060	1 ⅛-12	202011TCU3	**53PZ39**
2 ½ in	8 in	20 ¼ in	14,720 lb	1 ⅛ in	3,000 psi	3/16	SAE 8	1.000	2.060	2.713	2.125	5.490	1.167	1.060	1 ⅛-12	250811TCU3	**53PZ40**
2 ½ in	12 in	22 ¼ in	14,720 lb	1 ⅛ in	3,000 psi	3/16	SAE 8	1.000	2.060	2.713	2.125	3.490	1.167	1.060	1 ⅛-12	251211TCU3	**53PZ41**
3 in	8 in	20 ¼ in	21,200 lb	1 ¼ in	3,000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	5.352	1.167	1.060	1 ¼-12	300812TCU3	**53PZ42**
3 in	16 in	31 ½ in	21,200 lb	1 ½ in	3,000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	8.602	1.167	1.060	1 ¼-12	301615TCU3	**53PZ43**
3 in	24 in	34 ¼ in	16,580 lb	1 ½ in	3,000 psi	3/16	SAE 8	1.060	2.060	2.827	2.125	3.307	1.167	1.060	1 ¼-12	302415TCU3	**53PZ44**
3 ½ in	8 in	20 ¼ in	28,860 lb	1 ½ in	3,000 psi	3/16	SAE 8	1.060	2.000	2.756	2.125	5.352	1.167	1.060	1 ¼-12	350815TCU3	**53PZ45**
3 ½ in	16 in	31 ½ in	22,350 lb	1 ½ in	3,000 psi	3/16	SAE 8	1.060	2.000	2.756	2.125	8.602	1.167	1.060	1 ¼-12	351615TCU3	**53PZ46**
4 in	8 in	20 ¼ in	37,690 lb	1 ½ in	3,000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	5.372	1.167	1.060	1 ¼-12	400815TCU3	**53PZ47**
4 in	16 in	31 ½ in	37,690 lb	2 in	3,000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	8.622	1.167	1.060	1 ¼-12	401620TCU3	**53PZ48**
4 in	24 in	34 ¼ in	37,690 lb	2 in	3,000 psi	3/16	SAE 8	1.125	2.000	2.874	2.125	3.372	1.167	1.060	1 ¼-12	402420TCU3	**53PZ49**
5 in	8 in	20 ¼ in	58,900 lb	2 in	3,000 psi	¼	SAE 12	1.378	2.118	2.925	2.125	4.089	1.200	1.130	1 ½-12	500820TCU3	**53PZ50**
5 in	16 in	31 ½ in	58,900 lb	2 in	3,000 psi	¼	SAE 8	1.378	2.118	2.925	2.125	7.339	1.200	1.130	1 ½-12	501620TCU3	**53PZ51**
5 in	24 in	36 ¼ in	58,900 lb	2 ¼ in	3,000 psi	¼	SAE 8	1.378	2.118	2.925	2.125	4.089	1.200	1.130	1 ½-12	502422TCU4	**53PZ52**
Prince																	
2 in	4 in	14 ¼ in	9425 lb	1 ⅛ in	3,000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	3½	1.06	15/16	1⅛-12 UNF	B200040ABAAA07B	**4HL38**
2 in	8 in	20 ¼ in	9425 lb	1 ⅛ in	3,000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	5½	1.06	15/16	1⅛-12 UNF	A200080ABAAA07B	**4HL39**
2 in	20 in	30 ¼ in	7760 lb	1 ⅛ in	3,000 psi	3/16	¾-16	1.015	1 13/16	2⅜	1 13/16	3½	1.06	15/16	1⅛-12 UNF	B200200ABAAA07B	**4HL40**
2 ½ in	8 in	20 ¼ in	14,730 lb	1 ¼ in	3,000 psi	3/16	¾-16	1.015	1⅞	2 13/16	1 13/16	3 5/16	1.06	15/16	1⅛-12 UNF	A250080ABAAA07B	**4HL41**
2 ½ in	12 in	22 ¼ in	14,730 lb	1 ¼ in	3,000 psi	3/16	¾-16	1.015	1⅞	2 13/16	1 13/16	3 5/16	1.06	15/16	1⅛-12 UNF	B250120ABAAA07B	**4HL42**
3 in	8 in	20 ¼ in	16,900 lb	1 ⅜ in	3,000 psi	3/16	¾-16	1.015	1⅞	2 7/16	1 13/16	5¾	1.06	1 1/16	1⅛-12 UNF	A300080ABAAA07B	**4HL43**
3 in	16 in	31 ½ in	16,730 lb	1 ⅜ in	3,000 psi	3/16	¾-16	1.015	1⅞	2 7/16	1 13/16	9	1.06	1 1/16	1⅛-12 UNF	A300160ABAAA07B	**4HL44**
3 in	24 in	34 ¼ in	—	1 ⅜ in	3,000 psi	3/16	¾-16	1.015	1⅞	2 7/16	1 13/16	3¾	1.06	1 1/16	1⅛-12 UNF	B300240ABAA07B	**4HL45**
4 in	8 in	20 ¼ in	37,700 lb	1 ¾ in	3,000 psi	3/16	¾-16	1.015	1¾	2 7/16	1⅞	5¼	1.06	1¼	1½-12 UNF	A400080ABACA07B	**4HL49**
4 in	16 in	31 ½ in	37,700 lb	1 ¾ in	3,000 psi	3/16	¾-16	1.015	1¾	2 7/16	1⅞	8½	1.06	1¼	1½-12 UNF	A400160ABACA07B	**4HL50**
4 in	24 in	34 ¼ in	33,710 lb	1 ¾ in	3,000 psi	3/16	¾-16	1.015	1¾	2 7/16	1⅞	3¼	1.06	1¼	1½-12 UNF	B400240ABACA07B	**4HL51**
5 in	8 in	20 ¼ in	58,900 lb	2 in	3,000 psi	¼	⅞-14	1.265	1¾	2⅝	2	4	1.13	1⅜	1½-12 UNF	B500080ACDDA07B	**4HL56**
2 ½ in	8 in	20 ¼ in	Full PSI	1 ⅛ in	2,500 psi	⅛	¾-16	1.015	1⅞	2 13/32	1 13/16	5½	1.06	15/16	1⅛-12 UNF	SAE-7008	**4Z189**
3 in	8 in	20 ¼ in	Full PSI	1 ⅛ in	2,500 psi	3/16	¾-16	1.015	1⅞	2 7/16	1 13/16	5¾	1.06	15/16	1⅛-12 UNF	SAE-7108	**4Z190**
4 in	8 in	20 ¼ in	Full PSI	1 ½ in	2,500 psi	3/16	¾-16	1.015	1¾	2 7/16	1⅞	5¼	1.06	1¼	1½-12 UNF	SAE-8608	**4Z192**
5 in	8 in	20 ¼ in	Full PSI	1 ¾ in	2,500 psi	¼	⅞-14	1.265	1¾	2⅝	2	4	1.06	1¼	1½-12 UNF	SAE-8208	**4Z193**

*** SAE O-ring.**

6FCX5



Double-Acting Tie-Rod Cylinders MAXIM

- Max. working pressure: 2500 psi
- Temp. range: -20° to 220°F

Cylinders feature precision-honed steel tube and ductile-iron piston with high-tensile strength chrome-plated rod. Polypak rod seals. Pins and clips are included. 1" pin dia., except 6FCX8, 6FCZ3, and 6FDC0 are 1¼" dia. Black color.

Bore Dia.	Stroke Length	Retracted Length	Rod Dia.	Dimensions (in.) A	B*	C	D	E	Mfr. Model	Item No.
2 in	4 in	14 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-297	**6FCT9**
2 in	6 in	16 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-298	**6FCU0**
2 in	8 in	18 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-299	**6FCU1**
2 in	8 in	20 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-300	**6FCU2**
2 in	10 in	20 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-306	**6FCU3**
2 in	12 in	22 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-307	**6FCU4**
2 in	14 in	24 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-308	**6FCU5**
2 in	16 in	26 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-309	**6FCU6**
2 in	18 in	28 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-310	**6FCU7**
2 in	20 in	30 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-311	**6FCU8**
2 in	24 in	34 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-312	**6FCU9**
2 in	30 in	40 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-313	**6FCV0**
2 in	36 in	46 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-314	**6FCV1**
2 in	48 in	58 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-315	**6FCV2**
2 ½ in	4 in	14 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-316	**6FCV4**
2 ½ in	6 in	16 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-317	**6FCV5**
2 ½ in	8 in	18 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-318	**6FCV6**
2 ½ in	8 in	20 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-301	**6FCV7**
2 ½ in	10 in	20 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-319	**6FCV8**
2 ½ in	12 in	22 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-320	**6FCV9**
2 ½ in	14 in	24 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-321	**6FCW0**
2 ½ in	16 in	26 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-322	**6FCW1**
2 ½ in	18 in	28 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-323	**6FCW2**
2 ½ in	20 in	30 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-324	**6FCW3**
2 ½ in	24 in	34 ¼ in	1 ⅛ in	0.189	2.500	1.125	2.125	1.625	218-325	**6FCW4**
2 ½ in	30 in	40 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-329	**6FCW5**
2 ½ in	36 in	46 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-330	**6FCW6**
2 ½ in	48 in	58 ¼ in	1 ¼ in	0.189	2.500	1.125	2.125	1.625	218-331	**6FCW7**
3 in	4 in	14 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-333	**6FCX0**
3 in	6 in	16 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-334	**6FCX1**
3 in	8 in	18 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-335	**6FCX2**
3 in	8 in	20 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-302	**6FCX3**
3 in	10 in	20 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-336	**6FCX4**
3 in	12 in	22 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-337	**6FCX5**
3 in	14 in	24 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-338	**6FCX6**
3 in	16 in	26 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-339	**6FCX7**
3 in	16 in	31 ½ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-340	**6FCX8** *
3 in	18 in	28 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-341	**6FCX9**
3 in	20 in	30 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-342	**6FCY0**
3 in	24 in	34 ¼ in	1 ¼ in	0.189	2.625	1.125	2.125	1.625	218-343	**6FCY1**
3 in	30 in	40 ¼ in	1 ½ in	0.189	2.625	1.125	2.125	1.625	218-344	**6FCY2**
3 in	36 in	46 ¼ in	1 ½ in	0.189	2.625	1.125	2.125	1.625	218-345	**6FCY3**
3 in	48 in	58 ¼ in	1 ½ in	0.189	2.625	1.125	2.125	1.625	218-346	**6FCY4**
3 ½ in	8 in	18 ¼ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-349	**6FCY7**
3 ½ in	8 in	20 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-303	**6FCY8**
3 ½ in	10 in	20 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-350	**6FCY9**
3 ½ in	12 in	22 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-351	**6FCZ0**
3 ½ in	14 in	24 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-352	**6FCZ1**
3 ½ in	16 in	26 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-353	**6FCZ2**
3 ½ in	16 in	31 ½ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-354	**6FCZ3** *
3 ½ in	18 in	28 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-355	**6FCZ4**
3 ½ in	20 in	30 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-356	**6FCZ5**
3 ½ in	24 in	34 ¼ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-326	**6FCZ6**
3 ½ in	30 in	40 ¼ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-327	**6FCZ7**
3 ½ in	36 in	46 ¼ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-328	**6FCZ8**
3 ½ in	6 in	16 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-348	**6FCZ9**
3 ½ in	4 in	14 ¼ in	1 ¼ in	0.218	2.625	1.125	2.125	1.625	218-347	**6FDA0**
3 ½ in	48 in	58 ¼ in	1 ½ in	0.218	2.625	1.125	2.125	1.625	218-357	**6FDA1**
4 in	8 in	18 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-360	**6FDA4**
4 in	8 in	20 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-304	**6FDA5**
4 in	10 in	20 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-361	**6FDA6**
4 in	12 in	22 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-362	**6FDA7**
4 in	14 in	24 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-363	**6FDA8**
4 in	16 in	26 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-364	**6FDA9**
4 in	16 in	31 ½ in	2 in	0.244	2.625	1.125	2.125	1.625	218-365	**6FDC0** *
4 in	18 in	28 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-366	**6FDC1**
4 in	20 in	30 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-367	**6FDC2**
4 in	24 in	34 ¼ in	1 ½ in	0.244	2.625	1.125	2.125	1.625	218-305	**6FDC3**
4 in	24 in	34 ¼ in	2 in	0.244	2.625	1.125	2.125	1.625	218-332	**6FDC4**
4 in	30 in	40 ¼ in	2 in	0.244	2.625	1.125	2.125	1.625	218-368	**6FDC5**
4 in	36 in	46 ¼ in	2 in	0.244	2.625	1.125	2.125	1.625	218-369	**6FDC6**
4 in	48 in	58 ¼ in	2 in	0.244	2.625	1.125	2.125	1.625	218-370	**6FDC7**

*** Pin dia.: 1¼" for cylinders with 3" to 4" bore.**

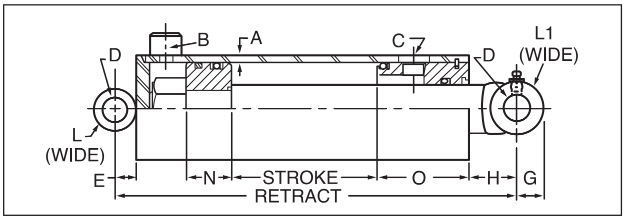
Prince

5Z366

Double-Acting Ag/Mobile Welded Cylinders

- Max. working pressure: 2500 psi

Crosstube end mountings. All-steel welded construction. Heavy-wall honed steel tubing. Ground and polished chrome piston rod. Cast-iron ring, O-ring, and back-up washer packing on piston. Urethane U-cup rod seal. Truarc gland retainer. Cylinders will operate at full pressure through 24" stroke except: 5Z369 with limit of 13,000 lb. (1839 psi) in extension and 5Z371 with limit of 9700 lb.



Bore Dia.	Stroke Length	Retracted Length	Rod Dia.	NPT Port (in.)	Mfr. Model	Item No.
2.5 in	16 in	24 in	1 ⅜ in	⅜	PMC-5416	**5Z366**
	24 in	32 in	1 ⅜ in	⅜	PMC-5424	**5Z367**
3 in	20 in	28 in	1 ½ in	½	PMC-8320	**5Z368**
	30 in	38 in	1 ½ in	½	PMC-8330	**5Z369**
3.5 in	36 in	44 in	1 ½ in	½	PMC-5536	**5Z371**
4 in	30 in	39 in	2 in	½	PMC-5630	**5Z372**
	48 in	57 in	2 in	½	PMC-5648	**5PP02**

Bore Dia.	A	B*	C*	D	E	G	H	L	L1	N	O
	Dimensions (in.)										
2.5 in	3⁄16	⅜	⅜	0.760	9⁄16	¾	2 9⁄16	3	1⅜	1¼	2½
2.5 in	3⁄16	⅜	⅜	0.760	9⁄16	¾	2 9⁄16	3	1⅜	1¼	2½
2.5 in	3⁄16	⅜	⅜	0.760	9⁄16	¾	2 9⁄16	3	1⅜	1¼	2½
3 in	3⁄16	½	½	1.015	11⁄16	1	2 5⁄16	3½	1½	1¼	2⅝
3 in	3⁄16	½	½	1.015	11⁄16	1	2 5⁄16	3½	1½	1¼	2⅝
3 in	3⁄16	½	½	1.015	11⁄16	1	2 5⁄16	3½	1½	1¼	2⅝
3 in	3⁄16	½	½	1.015	11⁄16	1	2 5⁄16	3½	1½	1¼	2⅝
3 in	3⁄16	½	½	1.015	11⁄16	1	2 5⁄16	3½	1½	1¼	2⅝
3.5 in	3⁄16	½	½	1.015	11⁄16	1	1 11⁄16	4	1½	1½	2⅝
3.5 in	3⁄16	½	½	1.015	11⁄16	1	1 11⁄16	4	1½	1½	2⅝
4 in	3⁄16	½	½	1.265	15⁄16	1⅛	2⅛	4½	2	1 5⁄16	2⅞

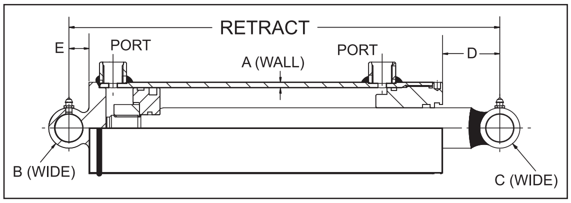
** Ports, NPTF.*

Stroke Length	Retracted Length	1.5 in Rod Dia.	1.5 in Port Size	1.5 in Item No.	2 in Rod Dia.	2 in Port Size	2 in Item No.	2.5 in Rod Dia.	2.5 in Port Size	2.5 in Item No.	3 in Rod Dia.	3 in Port Size	3 in Item No.
		Bore Dia.											
4 in	12 in	1 in	#4 SAE	**6FDD0**	1 ¼ in	#6 SAE	**6FDD8**	1 ½ in	#8 SAE	**6FWT5**	1 ½ in	#4 SAE	**6FWU9**
6 in	14 in	1 in	#4 SAE	**6FDD1**	1 ¼ in	#6 SAE	**6FDD9**	1 ½ in	#8 SAE	**6FWT6**	1 ½ in	#8 SAE	**6FWX0**
8 in	16 in	1 in	#4 SAE	**6FDD2**	1 ¼ in	#6 SAE	**6FDE0**	1 ½ in	#8 SAE	**6FWT7**	1 ½ in	#8 SAE	**6FWX1**
10 in	18 in	1 in	#4 SAE	**6FDD3**	1 ¼ in	#6 SAE	**6FDE1**	1 ½ in	#8 SAE	**6FWT8**	1 ½ in	#4 SAE	**6FWX2**
12 in	20 in	1 in	#4 SAE	**6FDD4**	1 ¼ in	#6 SAE	**6FDE2**	1 ½ in	#8 SAE	**6FWT9**	1 ½ in	#4 SAE	**6FWX3**
14 in	22 in	1 in	#4 SAE	**6FDD5**	1 ¼ in	#6 SAE	**6FDE3**	1 ½ in	#8 SAE	**6FWU0**	1 ½ in	#4 SAE	**6FWX4**
16 in	24 in	1 in	#4 SAE	**6FDD6**	1 ¼ in	#6 SAE	**6FDE4**	1 ½ in	#8 SAE	**6FWU1**	1 ½ in	#4 SAE	**6FWX5**
18 in	26 in	—	—	—	1 ¼ in	#6 SAE	**6FDE5**	1 ½ in	#8 SAE	**6FWU2**	1 ½ in	#8 SAE	**6FWX6**
20 in	28 in	—	—	—	1 ¼ in	#6 SAE	**6FDE6**	1 ½ in	#8 SAE	**6FWU3**	1 ½ in	#8 SAE	**6FWX7**
24 in	32 in	—	—	—	1 ¼ in	#6 SAE	**6FDE7**	1 ½ in	#8 SAE	**6FWU4**	1 ½ in	#4 SAE	**6FWX8**
30 in	38 in	—	—	—	1 ¼ in	#6 SAE	**6FWT1**	1 ½ in	#8 SAE	**6FWU5**	1 ½ in	#4 SAE	**6FWX9**
32 in	40 in	—	—	—	1 ¼ in	#6 SAE	**6FWT2**	1 ½ in	#8 SAE	**6FWU6**	1 ½ in	#4 SAE	**6FWY0**
36 in	44 in	—	—	—	1 ¼ in	#6 SAE	**6FWT3**	1 ½ in	#8 SAE	**6FWU7**	1 ½ in	#8 SAE	**6FWY1**
40 in	48 in	—	—	—	—	—	—	—	—	—	1 ½ in	#8 SAE	**6FWY2**
48 in	56 in	—	—	—	—	—	—	—	—	—	1 ½ in	#4 SAE	**6FWY3**

Stroke Length	Retracted Length	3.5 in Rod Dia.	3.5 in Port Size	3.5 in Item No.	4 in Rod Dia.	4 in Port Size	4 in Item No.
		Bore Dia.					
4 in	14 in	1 ¾ in	#8 SAE	**6FWY5**	2 in	#8 SAE	**6FXA1**
6 in	16 in	1 ¾ in	#8 SAE	**6FWY6**	2 in	#8 SAE	**6FXA2**
8 in	18 in	1 ¾ in	#8 SAE	**6FWY7**	2 in	#8 SAE	**6FXA3**
10 in	20 in	1 ¾ in	#8 SAE	**6FWY8**	2 in	#8 SAE	**6FXA4**
12 in	22 in	1 ¾ in	#8 SAE	**6FWY9**	2 in	#8 SAE	**6FXA5**
14 in	24 in	1 ¾ in	#8 SAE	**6FWZ0**	2 in	#8 SAE	**6FXA6**
16 in	26 in	1 ¾ in	#8 SAE	**6FWZ1**	2 in	#8 SAE	**6FXA7**
18 in	28 in	1 ¾ in	#8 SAE	**6FWZ2**	2 in	#8 SAE	**6FXA8**
20 in	30 in	1 ¾ in	#8 SAE	**6FWZ3**	2 in	#8 SAE	**6FXA9**
24 in	34 in	1 ¾ in	#8 SAE	**6FWZ4**	2 in	#8 SAE	**6FXC0**
30 in	40 in	1 ¾ in	#8 SAE	**6FWZ5**	2 in	#8 SAE	**6FXC1**
32 in	42 in	1 ¾ in	#8 SAE	**6FWZ6**	2 in	#8 SAE	**6FXC2**
36 in	46 in	1 ¾ in	#8 SAE	**6FWZ7**	2 in	#8 SAE	**6FXC3**
40 in	50 in	1 ¾ in	#8 SAE	**6FWZ8**	2 in	#8 SAE	**6FXC4**
48 in	58 in	1 ¾ in	#8 SAE	**6FWZ9**	2 in	#8 SAE	**6FXC5**

Type	Item No.
Seal Kits	
For 1.5 in Bore Welded Cylinder	**6FDD7**
For 2 in Bore Welded Cylinder	**6FWT4**
For 2.5 in Bore Welded Cylinder	**6FWU8**
For 3 in Bore Welded Cylinder	**6FWY4**
For 3.5 in Bore Welded Cylinder	**6FXA0**
For 4 in Bore Welded Cylinder	**6FXC6**

6FXC1



MAXIM

Double-Acting Ag/Mobile Welded Cylinders

- Max. working pressure: 3000 psi
- Temp. range: 20° to 220°F

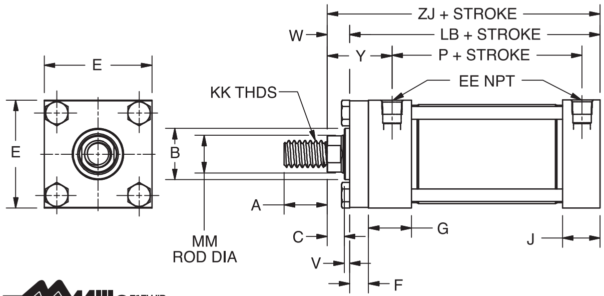
Cross-tube mounted cylinders feature ductile-iron pistons and precision-honed steel tubes, with Polypak rod seals and high-tensile strength chrome-plated tie rods. Black finish.

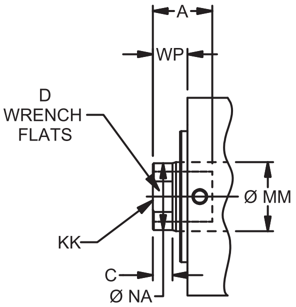
Bore Dia.	Pin Dia.	A	B	C	D	E
		Dimensions (in.)				
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
1.5 in	¾ in	0.188	2.250	2.000	2.835	0.625
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2 in	1 in	0.188	2.756	2.251	2.649	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750

Bore Dia.	Pin Dia.	A	B	C	D	E
		Dimensions (in.)				
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
2.5 in	1 in	0.188	3.236	2.251	2.645	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3 in	1 in	0.188	3.740	2.251	2.126	0.750
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000

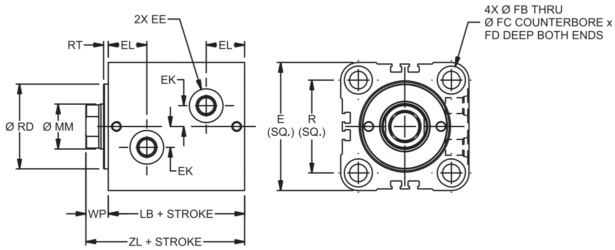
Bore Dia.	Pin Dia.	A	B	C	D	E
		Dimensions (in.)				
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
3.5 in	1 ¼ in	0.219	4.236	2.244	3.862	1.000
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126
4 in	1 ½ in	0.250	4.740	2.500	3.728	1.126

4Z630





2XKK7



Hydraulic Cylinders

- Max. pressure: 2500 psi
- Temp. range: -20° to 160°F
- All-steel construction with black finish
- Modular mounting design

6", 8", 10", and 12" stroke cylinders have adjustable cushions on both ends. Piston rods are case hardened and hard chrome plated to resist mechanical damage. Urethane rod seal and nitrile piston seals are compatible with standard hydraulic fluids. Optional magnetic piston will actuate Position Sensors 4YRD6 or 4YRD7.

Note: Compact Hydraulic Cylinders available on Grainger.com®.

Bore Dia.	Dimensions (in.)														
	A	B	C	E	EE	F	G	J	KK	LB	MM	P	V	W	Y	ZJ
1 ½ in	¾	1⅛	⅜	2½	½	⅜	1¾	1½	7⁄16-20	5	⅝	2⅞	¼	⅝	2	5⅝
2 in	1⅛	1½	½	3	½	⅝	1¾	1½	¾-16	5¼	1	2⅞	¼	¾	2⅜	6
2 ½ in	1⅛	1½	½	3½	½	⅝	1¾	1½	¾-16	5⅜	1	3	¼	¾	2⅜	6⅛
3 ¼ in	1⅝	2	⅝	4½	¾	¾	2	1¾	1-14	6¼	1⅜	3½	¼	⅞	2¾	7⅛
4 in	2	2⅜	¾	5	¾	⅞	2	1¾	1 ¼-12	6⅝	1¾	3¾	¼	1	3	7⅝

Bore Dia.	Stroke Length	REGULAR Item No.	WITH MAGNETIC PISTON Item No.
1½"	1 in	4Z630	—
	2 in	4Z631	—
	3 in	4Z632	4YRA2
	4 in	4Z633	4YRA3
	6 in	4Z634	4YRA4
	8 in	4Z635	4YRA5
2"	1 in	4Z636	—
	2 in	4Z637	—
	4 in	4Z638	4YRA6
	6 in	4Z639	4YRA7
	8 in	4Z640	4YRA8
	10 in	4Z641	4YRA9
2½"	1 in	4Z642	—
	2 in	4Z643	—
	4 in	4Z644	4YRC1
	6 in	4Z645	4YRC2
	8 in	4Z646	4YRC3
	10 in	4Z647	4YRC4
3¼"	2 in	4Z648	—
	4 in	4Z649	4YRC5
	6 in	4Z650	4YRC6
	8 in	4Z651	4YRC7
	10 in	4Z652	4YRC8
	12 in	4Z653	4YRC9
4"	2 in	4Z654	—
	4 in	4Z655	4YRD1
	6 in	4Z656	4YRD2
	8 in	4Z657	4YRD3
	10 in	4Z658	4YRD4
	12 in	4Z659	4YRD5

Function	Item No.
Position Sensors for Cylinders - Tie Rod Mounted	
Normally Open or Normally Closed PNP	4YRD6
Normally Open or Normally Closed NPN	4YRD7
Required Power Cord for Position Sensors, 16 ft.	
Power Supply/Signal Cordset	4YRD8

Bore Dia.	FRONT OR REAR FLANGE Item No.	REAR CLEVIS Item No.	EYE BRACKET Item No.	ROD CLEVIS Item No.
Mounting Hardware				
1½"	1A329	1A331	1A344	1A345
2"	1A332	1A334	—	—
2½"	1A335	1A337	1A346	1A347
3¼"	1A338	1A340	1A348	1A349
4"	1A341	1A343	1A350	1A351

Compact Hydraulic Cylinders

- Temp. range: -10° to 165°F
- Aluminum body and piston

Almost half the length of comparable bore and stroke tie rod construction products. Piloted rod gland with long bearing area allows precise alignment of cylinder and load center lines. Standard SAE O-ring ports make leak-free hydraulic line connections.

POSITIONING SENSORS

- Max. switching current: 100mA

Cost-effective alternative to machine-mounted switches for providing accurate indication of load position. Low-profile design keeps switch within compact cylinder body envelope. Solid-state switches use GMR technology to ensure precision, reducing hysteresis characteristics.

Bore Dia. (mm)	MM	A	C	D	E	EE (SAE)	EK	EL	FB	FC	FD	KK	NA	R	RD f9	RT	WP	LB	ZL
20 mm	12	10	6	10	43	#2	6	16.5	5.5	9.5	5.4	5⁄16-24	11	30	24	3	11	43	54
25 mm	14	12	6	12	49	#2	8	17.5	5.5	9.5	5.4	⅜-24	13	36	27	3	11	45	56
32 mm	18	15	8	15	62	#4	11	20.5	7	11	6.5	7⁄16-20	17	47	36	3	13	51	64
40 mm	22	20	8	19	70	#4	12	21	9	14	8.6	⅝-18	21	52	43	3	13	55	68
50 mm	28	24	9	24	80	#4	14	22.5	11	17.5	10.8	¾-16	27	58	53	3	14	60	74
63 mm	36	30	11	32	94	#4	17	26	13.5	20	13	1-14	35	69	66	3	16	67	83

Bore Dia.	Stroke Length	Max. Pressure	Retracted Length	Mfr. Model	Item No.
20 mm	10 mm	2,030 psi	64 mm	20 TNCHE3T9A x 10.00	2XKK7
	25 mm	2,030 psi	79 mm	20 TNCHE3T9A x 25.00	2XKK8
	50 mm	2,030 psi	104 mm	20 TNCHE3T9A x 50.00	2XKK9
25 mm	10 mm	2,030 psi	66 mm	25 TNCHE3T9A x 10.00	2XKL1
	25 mm	2,030 psi	81 mm	25 TNCHE3T9A x 25.00	2XKL2
	50 mm	2,030 psi	106 mm	25 TNCHE3T9A x 50.00	2XKL3
32 mm	10 mm	2,030 psi	74 mm	32 TNCHE3T9A x 10.00	2XKL4
	25 mm	2,030 psi	89 mm	32 TNCHE3T9A x 25.00	2XKL5
	50 mm	2,030 psi	114 mm	32 TNCHE3T9A x 50.00	2XKL6
	80 mm	2,030 psi	144 mm	32 TNCHE3T9A x 80.00	2XKL7
	100 mm	2,030 psi	164 mm	32 TNCHE3T9A x 100.00	2XKL8
40 mm	25 mm	2,030 psi	93 mm	40 TNCHE3T9A x 25.00	2XKL9
	50 mm	2,030 psi	118 mm	40 TNCHE3T9A x 50.00	2XKN1
	80 mm	2,030 psi	148 mm	40 TNCHE3T9A x 80.00	2XKN2
	100 mm	2,030 psi	168 mm	40 TNCHE3T9A x 100.00	2XKN3
50 mm	25 mm	1,740 psi	99 mm	50 TNCHE3T9A x 25.00	2XKN4
	50 mm	1,740 psi	124 mm	50 TNCHE3T9A x 50.00	2XKN5
	80 mm	1,740 psi	154 mm	50 TNCHE3T9A x 80.00	2XKN6
	100 mm	1,740 psi	174 mm	50 TNCHE3T9A x 100.00	2XKN7
63 mm	25 mm	1,450 psi	108 mm	63 TNCHE3T9A x 25.00	2XKN8
	50 mm	1,450 psi	133 mm	63 TNCHE3T9A x 50.00	2XKN9
	100 mm	1,450 psi	183 mm	63 TNCHE3T9A x 100.00	2XKP1

Function	Switching Voltage	Mfr. Model	Item No.
Position Indicating Switch, 32 to 125mm			
Normally Open NPN	10 to 30V DC	P8SAGNFAX	61RG47
Reed	10 to 30V AC/DC	P8SAGRFAX	61RG48

EATON | Aeroquip

High-Pressure Hose Assemblies

- Temp. range: -40° to 212°F
- 4:1 safety factor

These Eaton Aeroquip FC579 hydraulic hose assemblies are suitable for high-pressure applications and have crimped-on rubber strain relief on their ends that helps extend the hoses' life. They have an abrasion-resistant SBR (styrene-butadiene rubber) tube and cover and are reinforced with two layers of steel wire braids for strength. The hose exhibits low volumetric expansion under pressure, which helps maintain the efficiency of the hydraulic system. These hydraulic hose assemblies are used for hydraulic jacking applications with petroleum- and water-based fluids. They come with fittings installed on both ends and are ready to connect to compatible equipment. Meet or exceed EN857, type 28C.

FJIC x FJIC
2F671

MNPT x MNPT
2F681

Fitting Size	Hose I.D.	15 in Item No.	24 in Item No.	36 in Item No.	4 ft Item No.	5 ft Item No.	6 ft Item No.	8 ft Item No.	9 ft Item No.	10 ft Item No.
FJIC x FJIC										
7/16 in x 7/16 in	1/4 in	3F811	3F809	3F807	3F805	3F803	3F801	3F799	—	—
9/16 in x 9/16 in	3/8 in	3F797	3F795	3F793	3F791	3F789	3F787	3F785	—	—
3/4 in x 3/4 in	1/2 in	2F747	2F749	2F751	2F755	2F759	2F763	2F767	—	—
7/8 in x 7/8 in	1/2 in	—	—	2F737	2F739	2F741	2F743	2F745	—	—
1 1/16 in x 1 1/16 in	3/4 in	—	2F671	2F675	2F679	2F683	2F687	—	—	—
1 5/16 in x 1 5/16 in	1 in	—	2F691	2F695	2F699	2F703	2F707	—	—	—
MNPT x MNPT										
1/4 in x 1/4 in	1/4 in	2F711	2F713	2F715	2F717	2F719	2F721	2F723	—	—
1/4 in x 1/4 in	3/8 in	—	2F725	2F727	2F729	2F733	2F735	—	—	—
3/8 in x 3/8 in	3/8 in	4Z214	4Z215	2F731	4Z216	4Z217	—	4Z218	—	—
3/8 in x 3/8 in	1/2 in	—	—	2F753	2F757	—	2F765	—	—	—
1/2 in x 1/2 in	1/2 in	4Z205	4Z206	4Z207	4Z208	4Z209	4Z210	4Z211	4Z212	4Z213
3/4 in x 3/4 in	3/4 in	—	2F673	2F677	2F681	2F685	2F689	—	—	—
1 in x 1 in	1 in	—	2F693	2F697	2F701	2F705	2F709	—	—	—

Hose Inside Dia. (in.)	Female JIC Thread (in.)	Max. Operating psi	Min. Bend Radius (in.)	Wt. per Foot (lbs.)
JIC x JIC Hose Assembly Specifications				
1/4	7/16-20	5800	1.77	0.21
3/8	9/16-18	4800	2.5	0.27
1/2	3/4-16	4000	3.15	0.34
1/2	7/8-14	4000	3.15	0.34
3/4	1 1/16-12	3125	4.75	0.5
1	1 5/16-12	2400	6	0.71

Hose Inside Dia. (in.)	Male NPT Thread (in.)	Max. Operating psi	Min. Bend Radius (in.)	Wt. per Foot (lbs.)
NPT Hose Assembly Specifications				
1/4	1/4-18	5800	1.77	0.21
3/8	3/8-18	4800	2.5	0.27
1/2	1/2-14	4000	3.15	0.34
3/4	3/4-14	3125	4.75	0.5
1	1- 11 1/2	2400	6	0.71

ENERPAC

Thermoplastic Hose Assemblies

- 1/4" inside dia.
- Max. pressure: 10,000 psi
- 4:1 safety factor

Enerpac H700 hydraulic hose assemblies are designed to exhibit low volumetric expansion under pressure, which helps maintain the efficiency of the hydraulic system. They come with NPTF (National Pipe Taper Fuel) fittings installed on the ends of the hoses and are ready to connect to equipment. These hoses are used for transferring petroleum- and water-based fluids in hydraulic systems. They have crimped-on rubber strain relief on the ends of the hose that helps extend its life. These hoses have a thermoplastic tube and an abrasion-resistant polyurethane cover. They are reinforced with two layers of steel wire braids.

46C579

46C597

46C598

Fitting Size	Hose I.D.	24 in Item No.	36 in Item No.	6 ft Item No.	6 ft 6 in Item No.	10 ft Item No.	20 ft Item No.
C604 x NPTF							
3/8 in x 3/8 in	1/4 in	—	—	46C597	—	—	—
CH604 x NPTF							
3/8 in x 1/4 in	1/4 in	—	—	46C598	—	—	—
3/8 in x 3/8 in	1/4 in	—	—	6BU60	—	18Y529	18Y530
F Coupler x M Coupler							
1/4 in x 1/4 in	1/4 in	—	—	—	55PR28	—	3PCZ2
NPTF x NPTF							
3/8 in x 3/8 in	1/4 in	46C579	46C580	46C581	—	46C582	46C583

ENERPAC
EATON | Aeroquip

10,000 PSI Hose Assemblies

- Max. pressure: 10,000 psi

All comply with Material Handling Institute IJ-100 hose specification. Dust caps included. All hoses, except 6BU60, 18Y529, and 18Y530 are rubber with black rubber external coating over 2 layers of steel wire braid. 6BU60 thermoplastic hose has a 4:1 safety factor and yellow polyurethane jacket. Use 3KD64 with Coupler 3KD28 (sold separately). Cylinder 6Z782 (sold separately on page 2468), and Hand Pump 6W461 (sold separately on page 2466).

6BU58

3KD65

Fitting Size	Hose I.D.	Hose Tube Material	Brand	6 ft Item No.	10 ft Item No.	15 ft Item No.	20 ft Item No.
CH604 x NPTF							
3/8 in x 3/8 in	1/4 in	Rubber	Enerpac	6BU58	6BU59	—	2NWH9
3/8 in x 3/8 in	1/4 in	Thermoplastic	Enerpac	6BU60	18Y529	—	18Y530
3/8 in x 3/8 in	3/8 in	Rubber	Enerpac	46C604	46C605	—	46C606
M Coupler x M Coupler							
3/8 in x 3/8 in	1/4 in	Rubber	Eaton Aeroquip	3KD66	—	—	—
MNPT x M Quick Disconnect							
3/8 in x 3/8 in	1/4 in	Rubber	Eaton Aeroquip	3KD65	3KD67	3KD68	3KD69
NPTF x M Coupler							
1/4 in x 1/4 in	1/4 in	Rubber	Eaton Aeroquip	3KD64	—	—	—
NPTF x NPTF							
3/8 in x 3/8 in	1/4 in	Rubber	Enerpac	6BU56	6BU57	—	—
3/8 in x 3/8 in	3/8 in	Rubber	Enerpac	—	46C592	—	—

Find more Hydraulic Hose, Fittings, and Adapters at Grainger.com®.

MatchMate® Hose and Crimpable Fittings

EATON | Aeroquip

- Hose fittings are specific to the hose brand
- Synthetic rubber hose with 1-, 2-wire
- Temp. range: -40° to 212°F
- 4:1 safety factor

Hose has color-coded layline for easy identification and installation. Simply match ring symbols on hose to corresponding symbols on fittings, then match color of layline with color of dies to securely crimp hose and fittings. GH793 series also used with screw-together type fittings.

Note: Use Aeroquip® fittings with Aeroquip® hose.
Crimping machines sold on page 2483.

Max. Working Pressure @ 70°F	Hose I.D.	Hose Outside Dia.	Hose Length	Min. Bend Radius (in.)	Mfr. Model	Item No.
Hydraulic Bulk Hose						
1 Helical Wire Braid						
100 psi	2 in	2 21⁄32 in	25 ft	6	FC619-32-25	**4VTN5**
1 Wire Braid						
1,500 psi	1 in	1 13⁄32 in	50 ft	12	GH663-16X50	**10C276**
1,500 psi	1 in	1 7⁄16 in	150 ft	12	GH663-16R150	**10C281**
2,900 psi	½ in	13⁄16 in	50 ft	7	GH663-8X50	**10C274**
2,000 psi	¾ in	1 3⁄32 in	50 ft	9.5	GH663-12X50	**10C275**
2,900 psi	½ in	¾ in	250 ft	7	GH663-8R250	**10C279**
2,000 psi	¾ in	1 ⅛ in	250 ft	9.5	GH663-12R250	**10C280**
3,700 psi	¼ in	½ in	50 ft	4	GH663-4X50	**10C272**
3,400 psi	⅜ in	½ in	50 ft	5	GH663-6X50	**10C273**
3,700 psi	¼ in	½ in	250 ft	4	GH663-4R250	**10C277**
3,400 psi	⅜ in	½ in	250 ft	5	GH663-6R250	**10C278**
2 Wire Braid						
2,500 psi	1 ¼ in	1 29⁄32 in	50 ft	8.25	GH781-20X50	**10C288**
3,500 psi	¾ in	2 33⁄64 in	50 ft	9½	GH793-12-50	**4VTL7**
3,000 psi	1 in	2 35⁄64 in	50 ft	12	GH793-16-50	**4VTL8**
3,500 psi	¾ in	1 5⁄32 in	250 ft	9.5	GH793-12R250	**10C270**
3,000 psi	1 in	1 ½ in	150 ft	12	GH793-16R150	**10C271**
3,500 psi	¾ in	1 ¼ in	50 ft	4.75	GH781-12X50	**10C286**
3,000 psi	1 in	1 ½ in	50 ft	6	GH781-16X50	**10C287**
3,500 psi	¾ in	1 ⅛ in	250 ft	4.75	GH781-12R250	**10C293**
3,000 psi	1 in	1 7⁄16 in	150 ft	6	GH781-16R150	**10C294**
4,000 psi	⅝ in	2 33⁄64 in	50 ft	8	GH793-10-50	**4VTL6**
4,000 psi	⅝ in	63⁄64 in	250 ft	8	GH793-10R250	**10C269**
4,500 psi	½ in	33⁄64 in	50 ft	3.5	GH781-8X50	**10C284**
4,000 psi	⅝ in	31⁄32 in	50 ft	4	GH781-10X50	**10C285**
4,500 psi	½ in	27⁄32 in	250 ft	3.5	GH781-8R250	**10C291**
4,000 psi	⅝ in	31⁄32 in	250 ft	4	GH781-10R250	**10C292**
5,800 psi	⅜ in	2 5⁄32 in	50 ft	5	GH793-6-50	**4VTL4**
5,000 psi	½ in	2 5⁄32 in	50 ft	7	GH793-8-50	**4VTL5**
5,800 psi	⅜ in	½ in	250 ft	5	GH793-6R250	**10C267**
5,000 psi	½ in	⅞ in	250 ft	7	GH793-8R250	**10C268**
5,300 psi	⅜ in	33⁄64 in	50 ft	2.5	GH781-6X50	**10C283**
5,300 psi	⅜ in	17⁄32 in	250 ft	2.5	GH781-6R250	**10C290**
6,500 psi	¼ in	2 5⁄32 in	50 ft	4	GH793-4-50	**4VTL3**
6,500 psi	¼ in	½ in	250 ft	4	GH793-4R250	**10C266**
6,500 psi	¼ in	33⁄64 in	50 ft	2	GH781-4X50	**10C282**
6,500 psi	¼ in	33⁄64 in	250 ft	2	GH781-4R250	**10C289**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel 45° Elbow				
¼ in	7⁄16"-20	1.78	1AA4FJA4	**4VTZ9**
¼ in	½"-20	2.04	1AA5FJA4	**4VUA1**
¼ in	9⁄16"-18	2.09	1AA6FJA4	**4VUA2**
⅜ in	9⁄16"-18	2.31	1AA6FJA6	**4VUA3**
½ in	¾"-16	2.82	1AA8FJA8	**4VUA4**
½ in	⅞"-14	3.03	1AA10FJA8	**4VUA5**
⅝ in	⅞"-14	2.94	1AA10FJA10	**10C372**
¾ in	1 1⁄16"-12	3.43	1AA12FJA12	**4VUA6**
1 in	1 5⁄16"-12	3.74	1AA16FJA16	**4VUA7**
Female JIC Swivel 90° Elbow				
¼ in	7⁄16"-20	1.84	1AA4FJB4	**4VUA8**
¼ in	½"-20	1.92	1AA5FJB4	**4VUA9**
¼ in	9⁄16"-18	2.00	1AA6FJB4	**4VUC1**
⅜ in	9⁄16"-18	2.21	1AA6FJB6	**4VUC2**
⅜ in	¾"-16	2.42	1AA8FJB6	**4VUC3**
½ in	¾"-16	2.59	1AA8FJB8	**4VUC4**
½ in	⅞"-14	2.78	1AA10FJB8	**4VUC5**
⅝ in	⅞"-14	2.7	1AA10FJB10	**10C373**
¾ in	1 1⁄16"-12	3.36	1AA12FJB12	**4VUC6**
¾ in	1 5⁄16"-12	3.37	1AA16FJB12	**4VUC7**
1 in	1 5⁄16"-12	3.56	1AA16FJB16	**4VUC8**
1 ½ in	1 ⅞"-12	4.63	1AA24FJB24	**14L757**
1 ¼ in	1 ⅝"-12	4.25	1AA20FJB20	**14L766**
Female JIC Swivel Straight				
¼ in	7⁄16"-20	2.00	1AA4FJ4	**4VUC9**
¼ in	½"-20	1.98	1AA5FJ4	**4VUD2**
¼ in	9⁄16"-18	2.03	1AA6FJ4	**4VUD3**
⅜ in	7⁄16"-20	2.19	1AA4FJ6	**4VUD1**
⅜ in	9⁄16"-18	2.28	1AA6FJ6	**4VUD4**
⅜ in	¾"-16	2.31	1AA8FJ6	**4VUD6**
½ in	9⁄16"-18	2.28	1AA6FJ8	**4VUD5**
½ in	¾"-16	2.63	1AA8FJ8	**4VUD7**
½ in	⅞"-14	2.64	1AA10FJ8	**4VUD8**
½ in	1 1⁄16"-12	2.73	1AA12FJ8	**4VUD9**
⅝ in	⅞"-14	2.77	1AA10FJ10	**10C371**
¾ in	1 1⁄16"-12	2.84	1AA12FJ12	**4VUE1**
¾ in	1 5⁄16"-12	2.91	1AA16FJ12	**4VUE2**
1 in	1 5⁄16"-12	3.29	1AA16FJ16	**4VUE3**
1 ¼ in	1 ⅝"-12	3.61	1AA20FJ20	**10C265**
Male JIC Straight				
¼ in	7⁄16"-20	2.00	1AA4MJ4	**4VUN2**
⅜ in	9⁄16"-18	2.16	1AA6MJ6	**4VUN3**
⅜ in	¾"-16	2.10	1AA8MJ6	**4VUN4**
½ in	¾"-16	2.57	1AA8MJ8	**4VUN5**
½ in	⅞"-14	2.42	1AA10MJ8	**4VUN6**
⅝ in	⅞"-14	2.73	1AA10MJ10	**10C374**
¾ in	1 1⁄16"-12	2.94	1AA12MJ12	**4VUN7**
1 in	1 5⁄16"-12	3.25	1AA16MJ16	**4VUN8**

Fitting Shape	Hydraulic Hose I.D.	Hydraulic Flange Size	L (in.)	Mfr. Model	Item No.
Crimp, Code 61 Flange					
45° Elbow	1 in	1 in	4.35 in	1A16FLA16	**4KFL5**
90° Elbow	1 in	1 in	4.22 in	1A16FLB16	**4KFL6**
Straight	1 in	1 in	3.49 in	1A16FL16	**4KFL9**
Barb, Code 61 Flange					
45° Elbow	2 in	2 in	7.49 in	1S32FLA32	**4KFL7**
90° Elbow	2 in	2 in	7.47 in	1S32FLB32	**4KFL8**
Straight	2 in	2 in	4.61 in	1S32FL32	**4KFN1**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female NPT Straight				
¼ in	¼"-18	2.87	1AA4PF4	**4VUF3**
⅜ in	⅜"-18	2.97	1AA6PF6	**4VUF7**
½ in	½"-14	3.58	1AA8PF8	**4VUG1**
¾ in	¾"-14	3.63	1AA12PF12	**4VUG4**
Male NPT Straight				
¼ in	⅛"-27	1.84	1AA2MP4	**4VUL2**
¼ in	¼"-18	2.06	1AA4MP4	**4VUL3**
¼ in	⅜"-18	1.90	1AA6MP4	**4VUL4**
¼ in	¼"-18	2.54	1AA4PS4	**4VUK4**
⅜ in	⅜"-18	2.27	1AA6MP6	**4VUL5**
⅜ in	½"-14	2.27	1AA8MP6	**4VUL7**
⅜ in	⅜"-18	2.66	1AA6PS6	**4VUK5**
⅜ in	½"-14	2.85	1AA8PS6	**4VUK7**
½ in	⅜"-18	2.49	1AA6MP8	**4VUL6**
½ in	½"-14	2.74	1AA8MP8	**4VUL8**
½ in	⅜"-18	2.88	1AA6PS8	**4VUK6**
½ in	½"-14	3.13	1AA8PS8	**4VUK8**
⅝ in	½"-14	2.74	1AA8MP10	**10C378**
¾ in	¾"-14	2.84	1AA12MP12	**4VUL9**
¾ in	¾"-14	3.24	1AA12PS12	**4VUK9**
1 in	1"-11-1/2	3.22	1AA16MP16	**4VUN1**
1 in	1"-11-1/2	3.88	1AA16PS16	**4VUL1**
1 ¼ in	1 ¼"-11-1/2	3.52	1AA20MP20	**10C264**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female ORS 45° Elbow				
¼ in	9⁄16"-18	2.12	1AA4FRA4	**4VUH3**
¼ in	11⁄16"-16	2.30	1AA6FRA4	**4VUH4**
⅜ in	11⁄16"-16	2.43	1AA6FRA6	**4VUH5**
⅜ in	13⁄16"-16	2.74	1AA8FRA6	**4VUH6**
½ in	13⁄16"-16	2.96	1AA8FRA8	**4VUH7**
½ in	1"-14	3.18	1AA10FRA8	**4VUH8**
⅝ in	1"-14	3.05	1AA10FRA10	**10C376**
¾ in	1 3⁄16"-12	3.57	1AA12FRA12	**4VUH9**
1 in	1 7⁄16"-12	4.23	1AA16FRA16	**4VUJ1**
Female ORS 90° Elbow				
¼ in	9⁄16"-18	2.09	1AA4FRB4	**4VUJ2**
¼ in	11⁄16"-16	2.22	1AA6FRB4	**4VUJ4**
⅜ in	9⁄16"-18	2.21	1AA4FRB6	**4VUJ3**
⅜ in	11⁄16"-16	2.34	1AA6FRB6	**4VUJ5**
⅜ in	13⁄16"-16	2.62	1AA8FRB6	**4VUJ7**
½ in	11⁄16"-16	2.56	1AA6FRB8	**4VUJ6**
½ in	13⁄16"-16	2.84	1AA8FRB8	**4VUJ8**
½ in	1"-14	3.07	1AA10FRB8	**4VUJ9**
⅝ in	1"-14	3.07	1AA10FRB10	**10C377**
¾ in	1 3⁄16"-12	3.49	1AA12FRB12	**4VUK1**
¾ in	1 7⁄16"-12	4.04	1AA16FRB12	**4VUK2**
1 in	1 7⁄16"-12	4.22	1AA16FRB16	**4VUK3**
Female ORS Straight				
¼ in	9⁄16"-18	1.95	1AA4FR4	**4VUF2**
¼ in	11⁄16"-16	2.04	1AA6FR4	**4VUF4**
⅜ in	11⁄16"-16	2.23	1AA6FR6	**4VUF5**
⅜ in	13⁄16"-16	2.32	1AA8FR6	**4VUF8**
½ in	11⁄16"-16	2.51	1AA6FR8	**4VUF6**
½ in	13⁄16"-16	2.67	1AA8FR8	**4VUF9**
½ in	1"-14	2.64	1AA10FR8	**4VUG2**
⅝ in	1"-14	2.76	1AA10FR10	**10C375**
¾ in	1 3⁄16"-12	1.72	1AA12FR12	**4VUG3**
¾ in	1 7⁄16"-12	2.98	1AA16FR12	**4VUG6**
1 in	1 3⁄16"-12	3.22	1AA12FR16	**4VUG5**
1 in	1 7⁄16"-12	3.29	1AA16FR16	**4VUG7**

EATON Synflex®
Hose and Crimpable Fittings

- Hose fittings are specific to the hose brand
- 4:1 safety factor
- Temp. range: -40° to 212°F

Lightweight and easy-to-route hose is made of nylon tube with polyurethane cover and braided synthetic fiber reinforcement. Fittings are steel with RoHS trivalent chromium zinc plating.

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Min. Bend Radius (in.)	Mfr. Model	Item No.
Synflex® Hose						
¼	0.51	50	3000	1¼	3130-04-50	**4VTK8**
5/16	0.59	50	2500	1¾	3130-05-50	**4VTK9**
⅜	0.67	50	2250	2	3130-06-50	**4VTL1**
½	0.82	50	2000	3	3130-08-50	**4VTL2**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel, Straight				
¼ in	7/16"-20	2.53	90304-045400	**4VUE4**
¼ in	½"-20	2.53	90304-055400	**4VUE5**
¼ in	9/16"-18	2.54	90304-065500	**4VUE6**
5/16 in	½"-20	2.53	90305-055400	**4VUE7**
5/16 in	9/16"-18	2.54	90305-065500	**4VUE8**
⅜ in	9/16"-18	2.82	90306-065500	**4VUE9**
½ in	¾"-16	3.15	90308-085400	**4VUF1**
Female ORS, Straight				
¼ in	9/16"-18	2.60	90304-044000	**4VUG8**
5/16 in	11/16"-16	2.67	90305-064000	**4VUG9**
⅜ in	11/16"-16	2.69	90306-064000	**4VUH1**
½ in	13/16"-16	3.06	90308-084000	**4VUH2**
Male NPT, Straight				
¼ in	¼"-18	2.30	90304-041000	**4VUN9**
5/16 in	¼"-18	2.30	90305-041000	**4VUP1**
⅜ in	¼"-18	2.59	90306-041000	**4VUP2**
⅜ in	⅜"-18	2.59	90306-061000	**4VUP3**
½ in	½"-14	3.03	90308-081000	**4VUP4**

10C379

35Z762

EATON | Aeroquip
Hydraulic Crimping Machines

- 5 tons of force
- Max. pressure: 10,000 psi

Lightweight, portable crimping devices crimp MatchMate® hose and fittings sold on page 2482, as well as Synflex® hose and fittings sold on page 2483. 1- and 2-wire, ¼" to 1¼" I.D. hose capacity, except 35Z762 crimps hose styles from 3/16" through 2" I .D. including 4- and 6-spiral wire crimp-style fittings. All models feature positive stop crimping.

Note: Machines 4YNW9 requires 10,000 psi pump, available on page 2466, and hose, available on page 2481.

Note: For Collet and Die Kits, see Grainger.com

Crimping Machine 35Z762 —Model has front-end loading design, electronic keypad control for crimp diameter, drop-in tooling (crimp die cages), power return stroke, return limit control, and backstop fitting locator.

Includes	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Crimping Machines without Pump					
Machine Only, No Tooling	22	16	14	ET1000-001	**4YNW9**
Crimping Machines with Pump					
8 Matchmate Dies, Manual, And Lubricant	28½	12¾	25¾	FT1380-115-8	**10C379**
Machine, Pump and Dies	49	29	28	FT1390-115-12	**35Z762**

MatchMate® 4-Wire Hose and Crimpable Fittings
EATON | Aeroquip

- Hose fittings are specific to the hose brand
- 4:1 safety factor
- Synthetic rubber hose with 4-wire spiral reinforcement
- Temp. range: -40° to 250°F

For hydraulic system service with petroleum and water-based fluids and general industrial use.

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Min. Bend Radius (in.)	Mfr. Model	Item No.
Bulk Hose						
½	.92	50	6000	3.5	GH493-8	**10C232**
¾	1.2	50	5500	4	GH493-12	**10C233**
1	1.48	50	5100	6	GH493-16	**10C234**
1¼	1.83	50	4500	8.25	GH493-20	**10C235**

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC				
½ in	¾"-16	2.63	4SA8FJ8	**471Z43**
½ in	¾"-16	3.30	4SA8FJA8	**471Z55**
½ in	¾"-16	2.87	4SA8FJB8	**471Z61**
¾ in	1 1/16"-12	3.23	4SA12FJ12	**471Z49**
¾ in	1 1/16"-12	4.42	4SA12FJA12	**471Z58**
¾ in	1 1/16"-12	3.99	4SA12FJB12	**471Z65**
1 in	1 5/16"-12	3.51	4SA16FJ16	**471Z51**
1 in	1 5/16"-12	5.07	4SA16FJA16	**471Z59**
1 in	1 5/16"-12	4.45	4SA16FJB16	**471Z66**
Female JIC Swivel				
1 ¼ in	1⅝"-12	4	4SA20FJ20	**46AC95**
1 ¼ in	1⅝"-12	3.20	4SA20FJA20	**46AC96**
1 ¼ in	1⅝"-12	5.20	4SA20FJB20	**46AC97**
Male NPTF				
½ in	½"-14	2.75	4SA8MP8	**471Z33**
¾ in	¾"-14	3.38	4SA12MP12	**471Z36**
1 in	1"-11-1/2	3.70	4SA16MP16	**471Z39**
1 ¼ in	1¼"-11-1/2	4.71	4SA20MP20	**471Z40**
Male Universal				
½ in	0.511"-27	2.87 in	4S8FLB8	**471Z93**
½ in	—	3.13	4S8FLA8	**471Z83**
¾ in	0.511"-27	4.27 in	4S12FLB12	**471Z97**
¾ in	—	3.57	4S12FL12	**471Z75**
1 in	—	4.96	4S16FLB16	**471Z98**
1 in	—	3.67	4S16FL16	**471Z78**
1 in	—	5.16	4S16FLA16	**471Z88**
1 ½ in	—	8.44	4S24FLA24	**471Z91**

Parker

Hose and Crimpable Hydraulic Fittings

Fittings ensure leak-free operation and longer life. Ideal for repairing or creating new hydraulic hose lines. Parker Hose use only Parker Fittings.

Note: Find additional types and sizes on Grainger.com®.

	Hose Length (ft.)	Hose Inside Dia. (in.)	Min. Bend Radius (in.)	Operating Pressure (psi)	Mfr. Model	Item No.
Bulk Hydraulic Hoses, 50 ft.						
	50	¼	4	5800	302-4-BX	**21A745**
	50	⅜	5	4750	302-6-BX	**21A746**
	50	½	7	4000	302-8-BX	**21A747**
	50	⅝	8	3600	302-10-BX	**21A748**
	50	¾	9½	3100	302-12-BX	**21A749**
	50	1	12	2400	302-16-BX	**21A750**
	50	1¼	16½	1800	302-20	**21A751**

	Hose Length	Hose I.D.	Burst Pressure	Mfr. Model	Item No.
Bulk Hydraulic Hoses					
	50 ft	¼ in	12,000 psi	387TC-4-BX	**55KE98**
		⅜ in	12,000 psi	387TC-6-BX	**55KE99**
		½ in	12,000 psi	387TC-8-BX	**55KF01**
		⅝ in	12,000 psi	387TC-10-BX	**55KF02**
		¾ in	12,000 psi	387TC-12-BX	**55KF03**
		1 in	12,000 psi	387TC-16-BX	**55KF04**
	125 ft	1 in	12,000 psi	387TC-16-RL	**55KF10**
	250 ft	¾ in	12,000 psi	387TC-12- RL	**55KF09**
	300 ft	⅝ in	12,000 psi	387TC-10-RL	**55KF08**
	385 ft	⅜ in	12,000 psi	387TC-6-RL	**55KF06**
	425 ft	½ in	12,000 psi	387TC-8-RL	**55KF07**
	475 ft	¼ in	12,000 psi	387TC-4-RL	**55KF05**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female JIC Swivel, 45° Elbow					
	¼ in	7/16"-20	1.96	13743-4-4	**21A769**
		½"-20	2.19	13743-5-4	**21A770**
		9/16"-18	2.23	13743-6-4	**21A771**
	⅜ in	9/16"-18	2.39	13743-6-6	**21A772**
		¾"-16	2.74	13743-8-6	**21A773**
	½ in	¾"-16	2.83	13743-8-8	**21A774**
		⅞"-14	2.93	13743-10-8	**21A775**
	⅝ in	⅞"-14	3.17	13743-10-10	**21A776**
	¾ in	1 1/16"-12	3.63	13743-12-12	**21A777**
	1 in	1 5/16"-12	4.34	13743-16-16	**21A778**
	1 ¼ in	1⅝"-12	4.59	13743-20-20	**21A779**
Female JIC Swivel, 90° Elbow					
	¼ in	7/16"-20	1.78	13943-4-4	**21A780**
		½"-20	1.88	13943-5-4	**21A781**
		9/16"-18	2.12	13943-6-4	**21A782**
	⅜ in	9/16"-18	2.21	13943-6-6	**21A783**
		¾"-16	2.52	13943-8-6	**21A784**
	½ in	¾"-16	2.62	13943-8-8	**21A785**
		⅞"-14	2.74	13943-10-8	**21A786**
	⅝ in	⅞"-14	2.97	13943-10-10	**21A787**
	¾ in	1 1/16"-12	3.49	13943-12-12	**21A788**
	1 in	1 5/16"-12	4.28	13943-16-16	**21A789**
	1 ¼ in	1⅝"-12	4.43	13943-20-20	**21A790**
Female JIC Swivel, Straight					
	¼ in	7/16"-20	1.94	10643-4-4	**21A752**
		½"-20	2.03	10643-5-4	**21A753**
		9/16"-18	2.05	10643-6-4	**21A754**
	⅜ in	7/16"-20	2.20	10643-4-6	**21A755**
		9/16"-18	2.29	10643-6-6	**21A756**
		¾"-16	2.49	10643-8-6	**21A757**
	½ in	9/16"-18	2.51	10643-6-8	**21A758**
		¾"-16	2.63	10643-8-8	**21A759**
		⅞"-14	2.85	10643-10-8	**21A760**
		1 1/16"-12	2.78	10643-12-8	**21A761**
	⅝ in	⅞"-14	2.93	10643-10-10	**21A762**
		1 1/16"-12	3.10	10643-12-10	**21A763**
	¾ in	1 1/16"-12	3.17	10643-12-12	**21A764**
		1 5/16"-12	3.31	10643-16-12	**21A765**
	1 in	1 5/16"-12	3.62	10643-16-16	**21A766**
		1⅝"-12	3.81	10643-20-16	**21A767**
	1 ¼ in	1⅝"-12	3.94	10643-20-20	**21A768**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Male JIC, Straight					
	¼ in	7/16"-20	1.99	10343-4-4	**21A791**
		½"-20	1.83	10343-5-4	**21A792**
		9/16"-18	1.84	10343-6-4	**21A793**
	⅜ in	9/16"-18	2.36	10343-6-6	**21A794**
		¾"-16	2.30	10343-8-6	**21A795**
	½ in	¾"-16	2.68	10343-8-8	**21A796**
		⅞"-14	2.62	10343-10-8	**21A797**
	⅝ in	⅞"-14	3.03	10343-10-10	**21A798**
		1 1/16"-12	3.07	10343-12-10	**21A799**
	¾ in	1 1/16"-12	3.19	10343-12-12	**21A801**
		1 5/16"-12	3.04	10343-16-12	**21A802**
	1 in	1 5/16"-12	3.63	10343-16-16	**21A803**
	1 ¼ in	1⅝"-12	3.96	10343-20-20	**21A804**

	Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
Female NPT, Straight					
	¼ in	¼"-18	1.78	10243-4-4	**21A805**
	⅜ in	⅜"-18	2.32	10243-6-6	**21A806**
	½ in	½"-14	2.62	10243-8-8	**21A807**
	¾ in	¾"-14	2.72	10243-12-12	**21A808**
Female ORS, 45° Elbow					
	¼ in	9/16"-18	1.97	1J743-4-4	**21A837**
		11/16"-16	2.08	1J743-6-4	**21A838**
	⅜ in	11/16"-16	2.34	1J743-6-6	**21A839**
		13/16"-16	2.53	1J743-8-6	**21A840**
	½ in	13/16"-16	2.83	1J743-8-8	**21A841**
		1"-14	2.93	1J743-10-8	**21A842**
	⅝ in	1"-14	3.17	1J743-10-10	**21A843**
	¾ in	1 3/16"-12	3.63	1J743-12-12	**21A844**
	1 in	1 7/16"-12	4.38	1J743-16-16	**21A845**
	1 ¼ in	1 11/16"-12	4.78	1J743-20-20	**21A846**
Female ORS, 90° Elbow					
	¼ in	9/16"-18	1.78	1J943-4-4	**21A847**
		11/16"-16	1.93	1J943-6-4	**21A848**
	⅜ in	11/16"-16	2.21	1J943-6-6	**21A849**
		13/16"-16	2.28	1J943-8-6	**21A850**
	½ in	13/16"-16	2.59	1J943-8-8	**21A851**
		1"-14	2.74	1J943-10-8	**21A852**
	⅝ in	1"-14	2.97	1J943-10-10	**21A853**
		1 3/16"-12	3.49	1J943-12-10	**21A854**
	¾ in	1 3/16"-12	3.06	1J943-12-12	**21A855**
	1 in	1 7/16"-12	4.31	1J943-16-16	**21A856**
	1 ¼ in	1 11/16"-12	4.88	1J943-20-20	**21A857**
Female ORS, Straight					
	¼ in	9/16"-18	2.07	1JS43-4-4	**21A826**
		11/16"-16	2.14	1JS43-6-4	**21A827**
	⅜ in	11/16"-16	2.28	1JS43-6-6	**21A828**
		13/16"-16	2.53	1JS43-8-6	**21A829**
	½ in	13/16"-16	2.65	1JS43-8-8	**21A830**
		1"-14	2.89	1JS43-10-8	**21A831**
	⅝ in	1"-14	3.07	1JS43-10-10	**21A832**
		1 3/16"-12	3.19	1JS43-12-10	**21A833**
	¾ in	1 3/16"-12	3.31	1JS43-12-12	**21A834**
	1 in	1 7/16"-12	3.62	1JS43-16-16	**21A835**
	1 ¼ in	1 11/16"-12	3.77	1JS43-20-20	**21A836**
Flange Code 61, 45° Elbow					
	¾ in	—	3.85 in	11743-12-12	**21A861**
	1 in	—	4.76 in	11743-16-16	**21A862**
	1 ¼ in	—	5.61 in	11743-20-20	**21A863**
Flange Code 61, 90° Elbow					
	¾ in	—	3.51 in	11943-12-12	**21A864**
	1 in	—	4.28 in	11943-16-16	**21A865**
	1 ¼ in	—	5.12 in	11943-20-20	**21A866**
Flange Code 61, Straight					
	¾ in	—	3.54 in	11543-12-12	**21A858**
	1 in	—	4.25 in	11543-16-16	**21A859**
	1 ¼ in	—	4.7 in	11543-20-20	**21A860**
Male NPT, Straight					
	¼ in	⅛"-27	1.80	10143-2-4	**21A809**
		¼"-18	2.01	10143-4-4	**21A810**
		¼"-18	2.68	11343-4-4	**21A820**
	⅜ in	¼"-18	2.28	10143-4-6	**21A811**
		⅜"-18	2.37	10143-6-6	**21A812**
		½"-14	2.39	10143-8-6	**21A813**
		⅜"-18	3.08	11343-6-6	**21A821**
		½"-14	3.30	11343-8-6	**21A822**
	½ in	½"-14	2.84	10143-8-8	**21A814**
		½"-14	3.52	11343-8-8	**21A823**
	⅝ in	½"-14	3.04	10143-8-10	**21A815**
		¾"-14	2.87	10143-12-10	**21A816**
	¾ in	¾"-14	3.09	10143-12-12	**21A817**
		¾"-14	3.93	11343-12-12	**21A824**
	1 in	1"-11-1/2	2.59	10143-16-16	**21A818**
	1 ¼ in	1¼"-11-1/2	4.08	10143-20-20	**21A819**
	1 in	1"-11-1/2	4.52	11343-16-16	**21A825**

21A867

21A868

Parker

Hose Crimp Machines

30 ton max. crimping force. Up to 1¼" hose capacity.
Crimping tool dies are available on Grainger.com.

Description	Includes	Mfr. Model	Item No.
Without Pump			
Portable, 12"D x 30H" x 15"W	10,000 psi Pump Nut, Crimp Head, Silver Die Ring, Black Die Ring, Hose Assembly, Stand Assembly	82C-061L	**21A867**
With Pump			
Bench Mount, 20"D x 25H" x 26"W	Crimp Head, Bench Power Unit Assembly, Silver Die Ring, Black Die Ring, 115/230V Power Unit	80C-061	**21A868**

EATON | Aeroquip

FC300 Hose and Reusable Fittings

- Hose fittings are specific to hose brand
- 4:1 safety factor
- Temp. range: -55° to 300°F
- Screw-together reusable type fittings

Hose transfers oil, air, gasoline, fuel oils, lubricating oils, and fire-resistant hydraulic fluids. Aeroquip elastomer tube, polyester inner braid, and single-wire braid reinforcement with blue polyester braid cover.

Note: Reusable fittings fit FC300 hose only.

FC300 Hose, SAE 100R5

Hose Inside Dia. (in.)	Hose Outside Dia. (in.)	Hose Length (ft.)	Operating Pressure (psi)	Vacuum Rating (in. Hg)	Min. Bend Radius (in.)	Mfr. Model	Item No.
3/16	0.52	25	3000	28	3	FC300-04-25	2F611
1/4	0.58	25	3000	28	3⅜	FC300-05-25	4VTL9
5/16	0.67	25	2250	28	4	FC300-06-25	2F613
13/32	0.76	25	2000	28	4⅝	FC300-08-25	2F615
1/2	0.93	25	1750	28	5½	FC300-10-25	4VTN1
5/8	1.08	25	1500	28	6½	FC300-12-25	4VTN2
7/8	1.27	25	800	20	7⅜	FC300-16-25	4VTN3
1 1/8	1.50	25	625	15	9	FC300-20-25	4VTN4

Female JIC Swivel, 45° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
5/16 in	9/16"-18	2.23	190265-6S	4VUP5
7/8 in	1 5/16"-12	3.74	190265-16S	4VUP6

Female JIC Swivel, 90° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-20	1.74	190296-4S	2F285
5/16 in	9/16"-18	2.13	190261-6S	2F281
5/16 in	9/16"-18	2.13	190260-6S	4KFG3
13/32 in	3/4"-16	2.76	190296-8S	2F287
1/2 in	7/8"-14	2.94	190296-10S	2F283
5/8 in	1 1/16"-12	3.74	190261-12S	4KFF7
5/8 in	1 1/16"-12	3.74	190260-12S	4KFG4
7/8 in	1 5/16"-12	3.55	190261-16S	4KFF8
7/8 in	1 5/16"-12	3.55	190260-16S	4KFG5

Female JIC Swivel, Straight

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
1/4 in	7/16"-20	1.97	4411-4S	2F513
1/4 in	1/2"-20	2.12	4411-5s	4KFH2
5/16 in	9/16"-18	2.33	4411-6S	2F515
5/16 in	3/4"-16	2.42	4411-8-6s	4KFH4
13/32 in	9/16"-18	2.68	4411-6-8S	4KFH3
13/32 in	3/4"-16	2.78	4411-8S	2F517
13/32 in	7/8"-14	2.95	4411-10-8S	4KFH5
1/2 in	7/8"-14	3.10	4411-10S	2F511
5/8 in	1 1/16"-12	3.49	4411-12S	4KFH6
7/8 in	1 5/16"-12	3.19	4411-16S	4KFH7
1 1/8 in	1 5/8"-12	3.43	4411-20S	4KFH8

Female Universal Swivel, 45° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-20	1.85	190297-4S	4KFF1
1/4 in	1/2"-20	2.07	190297-5S	4KFF2
13/32 in	3/4"-16	2.99	190297-8S	4KFF3
1/2 in	7/8"-14	3.24	190297-10S	4KFF4

Female Universal Swivel, 90° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-20	1.74	190295-4S	4KFG6
1/4 in	1/2"-20	1.96	190296-5S	4KFF9
13/32 in	3/4"-16	2.88	190295-8S	4KFG7
1/2 in	7/8"-14	3.19	190295-10S	4KFN8

Female SAE Swivel, 45° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
5/16 in	5/8"-18	2.23	190299-6S	4KFF5
5/8 in	1 1/16"-14	3.78	190299-12S	4KFF6

Female SAE Swivel, 90° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
5/16 in	5/8"-18	2.13	190302-6S	4KFG1
5/16 in	5/8"-18	2.13	190301-6S	4KFG8
5/8 in	1 1/16"-14	3.74	190301-12S	4KFG9
7/8 in	1 1/16"-14	3.74	190302-12S	4KFG2

Female SAE Swivel, Straight

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-20	1.97	4401-4S	2F505
5/16 in	5/8"-18	2.36	4401-6S	2F507
13/32 in	3/4"-16	2.78	4401-8S	2F509
1/2 in	7/8"-14	3.10	4401-10S	2F503
5/8 in	1 1/16"-14	3.49	4401-12S	4KFH1

Male NPT, Straight

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	1/8"-27	1.68	4412-2-4S	2F519
3/16 in	1/4"-18	1.87	4412-4-4S	2F521
1/4 in	1/4"-18	1.96	4412-4-5s	4KFK1
5/16 in	1/4"-18	2.13	4412-4-6S	2F523
3/8 in	3/8"-18	2.13	4412-6-6S	2F525
13/32 in	3/8"-18	2.48	4412-6-8S	2F527
13/32 in	1/2"-14	2.73	4412-8-8S	2F531
1/2 in	1/2"-14	2.88	4412-8-10S	2F529
5/8 in	1/2"-14	3.24	4412-8-12s	4KFK2
5/8 in	3/4"-14	3.24	4412-12-12s	4KFK3
7/8 in	1"-11-1/2	2.99	412-16-16s	4KFK4
1 1/8 in	1 1/4"-11-1/2	3.23	412-20-20s	4KFK5

Male SAE, Straight

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-24	2.46	190111-4S	4KFK8
1/4 in	1/2"-20	2.62	190111-5S	4KFK9
5/16 in	1/2"-20	2.72	190111-5-6S	4KFL1
5/16 in	5/8"-18	2.72	190111-6S	4KFL2
13/32 in	5/8"-18	3.13	190111-6-8S	4KFL3
13/32 in	3/4"-18	3.20	190111-8S	4KFL4

Male SAE Swivel, 45° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-24	2.74	190371-4S	4KFH9
1/4 in	1/2"-20	2.90	190371-5S	4KFJ1
5/16 in	5/8"-18	3.00	190371-6S	4KFJ2
13/32 in	3/4"-18	3.39	190371-8S	4KFJ3

Male SAE Swivel, 90° Elbow

Hydraulic Hose I.D.	Hydraulic Fitting Thread Size	L (in.)	Mfr. Model	Item No.
3/16 in	7/16"-24	2.36	190235-4S	4KFJ4
1/4 in	1/2"-20	2.53	190235-5S	4KFJ5
13/32 in	5/8"-18	3.04	190235-6-8S	4KFJ6
5/16 in	5/8"-18	2.63	190235-6S	4KFJ7
5/16 in	11/16"-18	2.63	190235-7-6S	4KFJ8
13/32 in	3/4"-18	3.04	190235-8S	4KFJ9

Male/Female SAE, Straight

Hydraulic Hose I.D.	Male SAE Size (in.)	Female SAE Size (in.)	L (in.)	Mfr. Model	Item No.
3/16 in	Bulkhead 5/8-18	7/16-24	2.05	190276-4S	4KFK7

Male Inverted SAE, Straight

Hydraulic Hose I.D.	Male SAE Size (in.)	Female SAE Size (in.)	L (in.)	Mfr. Model	Item No.
3/16 in	7/16-20 with 30° Flare Seat	—	1.80	190277-4S	4KFK6

Pipe Thread Hydraulic Hose Adapters

EATON

Female NPT, Straight

(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
1/4"-18	4,500 psi	2096-4S	2F481
3/8"-18	3,500 psi	2096-6S	2F483
1/2"-14, 1/4"-18	3,500 psi	2096-8-4S	4VPR9
1/2"-14, 3/8"-18	3,500 psi	2096-8-6S	4VPT1
1/2"-14	3,500 psi	2096-8S	2F485
1/2"-14, 3/4"-14	5,000 psi	2096-12-8S	4VPT2
3/4"-14	3,000 psi	2096-12S	4HL82
1"-11-1/2	2,500 psi	2096-16S	4HL83
1 1/4"-11-1/2	2,000 psi	2096-20S	4HL84

Female NPT, 90° Elbow

(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
1/4"-18	4,500 psi	2087-4-4S	2F461
3/8"-18	3,500 psi	2087-6-6S	2F463
1/2"-14	3,500 psi	2087-8-8S	2F465
3/4"-14	3,000 psi	2087-12-12S	4HL75
1"-11-1/2	2,500 psi	2087-16-16S	4HL76
1 1/4"-11-1/2	2,000 psi	2087-20-20S	4VPR3

Female NPT, Tee

(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
1/4"-18	4,500 psi	2090-4-4S	2F475
3/8"-18	3,500 psi	2090-6-6S	2F477
1/2"-14	3,500 psi	2090-8-8S	2F479
3/4"-14	3,000 psi	2090-12-12S	4HL79
1"-11-1/2	2,500 psi	2090-16-16S	4HL80
1 1/4"-11-1/2	2,000 psi	2090-20-20S	4HL81

Female NPT, Cross

(F)NPT Thread	Max. Working Pressure (psi)	Mfr. Model	Item No.
1/4"-18	4,500 psi	2080-4-4S	4VPR4
3/8"-18	3,500 psi	2080-6-6S	4VPR5
1/2"-14	3,500 psi	2080-8-8S	4VPR6
3/4"-14	3,000 psi	2080-12-12S	4VPR7
1"-11-1/2	2,500 psi	2080-16-16S	4VPR8

Male NPT to Female NPT Hydraulic Hose Adapter, Reducer Bushing

(M)NPT Thread	(F)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/4"-18, 1/8"-27	—	5,000 psi	2081-4-2S	2F433
1/4"-18, 3/8"-18	—	4,500 psi	2081-6-4S	2F435
1/8"-27, 3/8"-18	1/8"-27	5,000 psi	2081-6-2S	4HL71
1/2"-14, 1/4"-18	—	4,500 psi	2081-8-4S	2F437
1/2"-14, 3/8"-18	—	3,500 psi	2081-8-6S	2F439
3/4"-14, 3/8"-18	3/8"-18	3,500 psi	2081-12-6S	2F427
1/2"-14, 3/4"-14	1/2"-14	3,500 psi	2081-12-8S	2F429
1"-11-1/2, 3/4"-14	3/4"-14	3,000 psi	2081-16-12S	2F431
1"-11-1/2, 1/2"-14	1/2"-14	3,500 psi	2081-16-8S	4HL67
1 1/4"-11-1/2, 1"-11-1/2	1"-11-1/2	2,500 psi	2081-20-16S	4HL68
1 1/2"-11-1/2, 1 1/4"-11-1/2	1 1/4"-11-1/2	2,000 psi	2081-24-20S	4HL69
1 1/2"-11-1/2, 2"-11-1/2	1 1/2"-11-1/2	1,500 psi	2081-32-24S	4HL70

MNPT to FNPT Hydraulic Hose Adapter, Reducer

(M)NPT Thread	(F)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/4"-18, 1/8"-27	1/4"-18	5,000 psi	2040-2-4S	38YN15
1/4"-18, 3/8"-18	3/8"-18	5,000 psi	2040-4-6S	38YN17
1/2"-14, 3/8"-18	1/2"-14	4,000 psi	2040-6-8S	38YN19
1/2"-14, 3/4"-14	3/4"-14	3,000 psi	2040-8-12S	38YN21
1"-11-1/2, 3/4"-14	1"-11-1/2	2,500 psi	2040-12-16S	38YN23
1 1/4"-11-1/4, 1"-11-1/2	1 1/4"-11-1/2	2,000 psi	2040-16-20S	38YN25

Male NPT to Female NPT Hydraulic Hose Adapter, 90° Street Elbow

(M)NPT Thread	(F)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/4"-18	1/4"-18	4,500 psi	2089-4-4S	2F469
3/8"-18	—	3,500 psi	2089-6-6S	2F471
1/2"-14	1/2"-14	3,500 psi	2089-8-8S	2F473
3/4"-14	3/4"-14	3,000 psi	2089-12-12S	2F467
1"-11-1/2	1"-11-1/2	2,500 psi	2089-16-16S	4HL77
1 1/4"-11-1/2	1 1/4"-11-1/2	2,000 psi	2089-20-20S	4HL78

Male NPT to Female NPT Hydraulic Hose Adapter, Tee

(M)NPT Thread	(F)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/4"-18	1/4"-18	4,500 psi	2091-4-4S	4VPV2
3/8"-18	3/8"-18	3,500 psi	2091-6-6S	4VPV3
1/2"-14	1/2"-14	3,500 psi	2091-8-8S	4VPV4
3/4"-14	3/4"-14	3,000 psi	2091-12-12S	4VPV5
1"-11-1/2	1"-11-1/2	2,500 psi	2091-16-16S	4VPV6
1/4"-18	1/4"-18	4,500 psi	2092-4-4S	4VPV7
3/8"-18	3/8"-18	3,500 psi	2092-6-6S	4VPV8
1/2"-14	1/2"-14	3,500 psi	2092-8-8S	4VPV9
3/4"-14	3/4"-14	3,000 psi	2092-12-12S	4VPW1
1"-11-1/2	1"-11-1/2	2,500 psi	2092-16-16S	4VPW2

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EATON

Pipe Thread Hydraulic Hose Adapters

Male NPT, Pipe Plug

(M)NPT Thread	(M)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
⅛"-27	—	10,000 psi	2082-2S	2F441
¼"-18	—	9,500 psi	2082-4S	2F443
⅜"-18	—	8,000 psi	2082-6S	2F445
½"-14	—	6,000 psi	2082-8S	2F447
¾"-14	—	5,000 psi	2082-12S	4HL72
1-11"-1/2	—	4,000 psi	2082-16S	4HL73

Male NPT, Hex Socket Plug

(M)NPT Thread	(M)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
¼"-18	—	9,500 psi	2222-4s	4VTK4
⅜"-18	—	8,000 psi	2222-6s	4VTK5
½"-14	—	6,000 psi	2222-8s	4VTK6
¾"-14	—	5,000 psi	2222-12S	4VTK7

Male NPT to Male NPT, Hex Nipple

(M)NPT Thread	(M)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
¼"-18	—	9,500 psi	2083-4-4S	2F453
⅛"-27, ⅜"-18	⅛"-27	8,000 psi	2083-6-2S	4VTJ3
¼"-18, ⅜"-18	¼"-18	8,000 psi	2083-6-4S	2F455
⅜"-18	—	8,000 psi	2083-6-6S	2F457
½"-14, ¼"-18	¼"-18	6,000 psi	2083-8-4S	4VTJ4
½"-14, ⅜"-18	⅜"-18	6,000 psi	2083-8-6s	4VTJ5
½"-14	½"-14	6,000 psi	2083-8-8S	2F459
¼"-18, ¾"-14	¼"-18	5,000 psi	2083-12-4S	4VTJ1
½"-14, ¾"-14	½"-14	5,000 psi	2083-12-8s	4VTJ2
¾"-14	¾"-14	5,000 psi	2083-12-12S	2F449
1"-11-1/2, ¾"-14	¾"-14	4,000 psi	2083-16-12S	4VTJ6
1"-11-1/2	1"-11-1/2	4,000 psi	2083-16-16S	2F451
1¼"-11-1/2	1¼"-11-1/2	3,000 psi	2083-20-20S	4HL74

Male NPT to Male NPT, 90° Elbow

(M)NPT Thread	(M)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
¼"-18	¼"-18	9,500 psi	2085-4-4s	4VTJ7
⅜"-18	—	8,000 psi	2085-6-6s	4VTJ8
½"-14	½"-14	6,000 psi	2085-8-8s	4VTJ9
¾"-14	¾"-14	5,000 psi	2085-12-12s	4VTK1
1"-11-1/2	1"-11-1/2	4,000 psi	2085-16-16s	4VTK2
1¼"-11-1/2	1¼"-11-1/2	3,000 psi	2085-20-20S	4VTK3

Female NPT to Female NPSM Swivel

(F)NPT Thread	(F)NPT Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
¼"-18	¼"-18	4,500 psi	2046-4-4S	2F383
⅜"-18	⅜"-18	3,500 psi	2046-6-6S	2F385
½"-14	½"-14	3,500 psi	2046-8-8S	2F387
¾"-14	¾"-14	3,000 psi	2046-12-12S	2F379
1"-11-1/2	1"-11-1/2	2,500 psi	2046-16-16S	2F381

Male NPT to Female NPSM Swivel Hydraulic Hose Adapters

(M)NPT Thread	(F)NPSM Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
⅛"-27	⅛"-27	6,000 psi	2045-2-2S	2F369
¼"-18	¼"-18	5,000 psi	2045-4-4S	2F373
⅜"-18	⅜"-18	4,000 psi	2045-6-6S	2F375
½"-14	½"-14	3,500 psi	2045-8-8S	2F377
¾"-14	¾"-14	3,500 psi	2045-12-12S	2F365
1"-11-1/2	1"-11-1/2	3,000 psi	2045-16-16S	2F367
1¼"-11-1/2	1¼"-11-1/2	2,000 psi	2045-20-20S	4VRC8
1½"-11-1/2	1½"-11-1/2	1,500 psi	2045-24-24S	4VRC9
2"-11-1/2	2"-11-1/2	1,500 psi	2045-32-32S	4VRD1

Male NPT to Female NPSM Hydraulic Hose Adapters, 45° Elbow

(M)NPT Thread	(F)NPSM Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
⅛"-27	⅛"-27	6,000 psi	2049-2-2S	4VRA8
¼"-18	¼"-18	5,000 psi	2049-4-4S	4VRA9
⅜"-18	⅜"-18	4,000 psi	2049-6-6S	4VRC1
½"-14	½"-14	3,500 psi	2049-8-8S	4VRC2
¾"-14	¾"-14	3,500 psi	2049-12-12S	4VRC3
1"-11-1/2	1"-11-1/2	3,000 psi	2049-16-16S	4VRC4

Male NPT to Female NPSM Swivel Hydraulic Hose Adapters, Elbow Internal Pipe Swivel

(M)NPT Thread	(F)NPSM Thread	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
¼"-18	¼"-18	5,000 psi	2047-4-4S	2F393
⅜"-18	⅜"-18	4,000 psi	2047-6-6S	2F395
½"-14	½"-14	3,500 psi	2047-8-8S	2F397
¾"-14	¾"-14	3,500 psi	2047-12-12S	2F389
1"-11-1/2	1"-11-1/2	3,000 psi	2047-16-16S	4VRC5
1¼"-11-1/2	1¼"-11-1/2	2,000 psi	2047-20-20S	4VRC6
1½"-11-1/2	1½"-11-1/2	1,500 psi	2047-24-24S	4VRC7

ENERPAC | EATON | Aeroquip

High-Pressure Hydraulic Fittings

- Max. pressure: 10,000 psi

Steel fittings are designed for high-force hydraulic tools. Static hydraulic only (nonimpulse).

2F457

46C628

Description	L (in.)	(M)NPT Size (in.)	(F)NPT Size	Brand	Mfr. Model	Item No.
Adaptor, Adapter, Reusable (F)NPT to (M)NPT	1.75	⅜ in-18	¼"-18	Enerpac	FZ1055	46C615
Adaptor, Reusable (F) NPT to (M)NPT	1.69	½ in-14	¼"-18	Enerpac	FZ1633	46C626
Adaptor, Reusable (F) NPT to (M)NPT	1.69	½ in-14	⅜"-18	Enerpac	FZ1634	46C627
Coupling, Reusable (F)NPT	1.13	¼ in-18	¼"-18	Enerpac	FZ1605	46C616
Coupling, Reusable (F)NPT	1.13	⅜ in-18	⅜"-18	Enerpac	FZ1614	46C620
Elbow, Reusable (F)NPT	1.38	⅜ in-18	⅜"-18	Enerpac	FZ1610	46C618
Hex Nipple,		—	—	Eaton Aeroquip	2083-6-6S	2F457
Nipple, Reusable (M)NPT	1.5	¼ in-18	¼"-18	Enerpac	FZ1608	46C617
Nipple, Reusable (M)NPT	1.47	⅜ in-18	⅜"-18	Enerpac	FZ1617	46C623
Reducer, Reusable (F)NPT	1.88	½ in-14	⅜"-18	Enerpac	FZ1625	46C624
Reducer, Reusable (F) NPT to (M)NPT	1.13	⅜ in-18	¼"-18	Enerpac	FZ1615	46C621
Reducer, Reusable (M)NPT to (F)NPT	0.75	⅜ in-18	¼"-18	Enerpac	FZ1630	46C625
Reducer Bushing,		—	—	Eaton Aeroquip	2081-6-4S	2F435
Street Elbow, Reusable (M)NPT to (F)NPT	.94	⅜ in-18	⅜"-18	Enerpac	FZ1616	46C622
Swivel Fitting, Reusable (M)NPT to (F)NPT	1.56	⅜ in-18	⅜"-18	Enerpac	FZ1660	46C628
Tee, (F)NPT		—	—	Eaton Aeroquip	2090-6-6S	2F477
Tee, Reusable (F)NPT	1.77	—	—	Enerpac	FZ1612	46C619

EATON

ORS Hydraulic Hose Adapters

- O-Ring face seal

Male ORS, Straight

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	1.24	9000	FF2031T0404S	4VRL3
11/16 in-16	¼"-18	1.3	9000	FF2031T0604S	4VRL4
11/16 in-16	⅜"-18	1.3	8000	FF2031T0606S	4VRL5
13/16 in-16	⅜"-18	1.36	8000	FF2031T0806S	4VRL6
13/16 in-16	½"-14	1.61	6000	FF2031T0808S	4VRL7
1 in-14	½"-14	1.72	6000	FF2031T1008S	4VRL8
1 3/16 in-12	¾"-14	1.84	5000	FF2031T1212S	4VRL9
1 7/16 in-12	1"-11-1/2	2.05	4000	FF2031T1616S	4VRN1

Male ORS, 45° Elbow

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	1.24	9000	FF2093T0404s	4VRP1
11/16 in-16	¼"-18	1.4	9000	FF2093T0604s	4VRP2
11/16 in-16	⅜"-18	1.4	8000	FF2093T0606S	4VRP3
13/16 in-16	⅜"-18	1.6	8000	FF2093T0806S	4VRP4
13/16 in-16	½"-14	1.6	6000	FF2093T0808S	4VRP5
1 in-14	½"-14	1.8	6000	FF2093T1008S	4VRP6
1 3/16 in-12	¾"-14	2	5000	FF2093T1212S	4VRP7
1 7/16 in-12	1"-11-1/2	2.3	4000	FF2093T1616S	4VRP8

Male ORS, 90° Elbow

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	0.92	9000	FF2032T0404S	4VRN2
11/16 in-16	¼"-18	0.98	9000	FF2032T0604S	4VRN3
11/16 in-16	⅜"-18	1.04	8000	FF2032T0606S	4VRN4
11/16 in-16	⅜"-18	1.1	8000	FF2032T0806S	4VRN5
13/16 in-16	½"-14	1.21	6000	FF2032T0808S	4VRN6
13/16 in-16	½"-14	1.31	6000	FF2032T1008S	4VRN7
1 3/16 in-12	¾"-14	1.47	5000	FF2032T1212S	4VRN8
1 7/16 in-12	1"-11-1/2	1.64	4000	FF2032T1616S	4VRN9

Male ORS, Straight

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	1.24	9000	FF2031T0404S	4VRL3
11/16 in-16	¼"-18	1.3	9000	FF2031T0604S	4VRL4
11/16 in-16	⅜"-18	1.3	8000	FF2031T0606S	4VRL5
13/16 in-16	⅜"-18	1.36	8000	FF2031T0806S	4VRL6
13/16 in-16	½"-14	1.61	6000	FF2031T0808S	4VRL7
1 in-14	½"-14	1.72	6000	FF2031T1008S	4VRL8
1 3/16 in-12	¾"-14	1.84	5000	FF2031T1212S	4VRL9
1 7/16 in-12	1"-11-1/2	2.05	4000	FF2031T1616S	4VRN1

Male ORS, 45° Elbow

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	1.24	9000	FF2093T0404s	4VRP1
11/16 in-16	¼"-18	1.4	9000	FF2093T0604s	4VRP2
11/16 in-16	⅜"-18	1.4	8000	FF2093T0606S	4VRP3
13/16 in-16	⅜"-18	1.6	8000	FF2093T0806S	4VRP4
13/16 in-16	½"-14	1.6	6000	FF2093T0808S	4VRP5
1 in-14	½"-14	1.8	6000	FF2093T1008S	4VRP6
1 3/16 in-12	¾"-14	2	5000	FF2093T1212S	4VRP7
1 7/16 in-12	1"-11-1/2	2.3	4000	FF2093T1616S	4VRP8

Male ORS, 90° Elbow

(M)ORS Thread	(M)NPT Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	¼"-18	0.92	9000	FF2032T0404S	4VRN2
11/16 in-16	¼"-18	0.98	9000	FF2032T0604S	4VRN3
11/16 in-16	⅜"-18	1.04	8000	FF2032T0606S	4VRN4
11/16 in-16	⅜"-18	1.1	8000	FF2032T0806S	4VRN5
13/16 in-16	½"-14	1.21	6000	FF2032T0808S	4VRN6
13/16 in-16	½"-14	1.31	6000	FF2032T1008S	4VRN7
1 3/16 in-12	¾"-14	1.47	5000	FF2032T1212S	4VRN8
1 7/16 in-12	1"-11-1/2	1.64	4000	FF2032T1616S	4VRN9

Male ORS, Plug

(M)ORS Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	0.66	9000	FF976704S	4VRK6
11/16 in-16	0.75	9000	FF976706S	4VRK7
13/16 in-16	0.87	9000	FF976708S	4VRK8
1 in-14	1.02	9000	FF976710S	4VRK9
1 3/16 in-12	1.08	6000	FF976712S	4VRL1
1 7/16 in-12	1.1	6000	FF976716S	4VRL2

Male ORS, Straight

(M)ORS Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	1.08	9000	FF2000T0404S	4VRJ3
11/16 in-16	1.22	9000	FF2000T0606S	4VRJ4
13/16 in-16	1.39	9000	FF2000T0808S	4VRJ5
1 in-14	1.68	9000	FF2000T1010S	4VRJ6
1 3/16 in-12	1.86	6000	FF2000T1212S	4VRJ7
1 7/16 in-12	1.94	6000	FF2000T1616S	4VRJ8
9/16 in-18	1.9	9000	FF1994T0404S	4VRH6
11/16 in-16	2.09	9000	FF1994T0606S	4VRH7
13/16 in-16	2.3	9000	FF1994T0808S	4VRH8
1 in-14	2.62	9000	FF1994T1010S	4VRH9
1 3/16 in-12	2.72	6000	FF11994T1212S	4VRJ1
1 7/16 in-12	2.76	6000	FF1994T1616S	4VRJ2

Male ORS, 90° Elbow

(M)ORS Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
9/16 in-18	0.85	9000	FF2035T0404S	4VRJ9
11/16 in-16	0.98	9000	FF2035T0606S	4VRK1
13/16 in-16	1.1	9000	FF2035T0808S	4VRK2
1 in-14	1.31	9000	FF2035T1010S	4VRK3
1 3/16 in-12	1.47	6000	FF2035T1212S	4VRK4

Male ORS 90° Elbow

(M)ORS Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
1 7/16 in-12	1.64	6000	FF2035T1616S	4VRK5

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Male ORB to Male JIC, 45° Elbow

(M)ORB Thread	(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	7/16-20	1.05	4500	2061-4-4S	**4VTF3**
7/16-20	9/16-18	1.14	4500	2061-4-6S	**4VTF4**
9/16-18	7/16-20	1.14	4000	2061-6-4S	**4VTF5**
9/16-18	9/16-18	1.14	4000	2061-6-6S	**4VTF6**
9/16-18	3/4-16	1.3	4500	2061-6-8S	**4VTF7**
3/4-16	9/16-18	1.3	4000	2061-8-6S	**4VTF8**
3/4-16	3/4-16	1.3	4000	2061-8-8S	**4VTF9**
3/4-16	7/8-14	1.36	4000	2061-8-10S	**4VTG1**
7/8-14	3/4-16	1.52	4000	2061-10-8S	**4VTG2**
7/8-14	7/8-14	1.52	4000	2061-10-10S	**4VTG3**
1 1/16-12	3/4-16	1.73	3500	2061-12-8S	**4VTG4**
1 1/16-12	1 1/16-12	1.73	3500	2061-12-12S	**4VTG5**
1 1/16-12	1 5/16-12	1.86	3500	2061-12-16S	**4VTG6**
1 5/16-12	1 1/16-12	1.86	2500	2061-16-12S	**4VTG7**
1 5/16-12	1 5/16-12	1.86	2500	2061-16-16S	**4VTG8**

Male ORB to Male JIC, Tee

(M)ORB Thread	(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	7/16-20	1.78	4500	203003-4-4S	**4VTE1**
7/16-20	7/16-20	1.92	4500	203005-4-4s	**4VTE7**
9/16-18	9/16-18	2.12	4000	203003-6-6S	**4VTE2**
3/4-16	3/4-16	2.5	4000	203003-8-8S	**4VTE3**
3/4-16	7/8-14	2.9	4000	203003-8-8-10S	**4VTE4**
9/16-18	9/16-18	2.3	4000	203005-6-6s	**4VTE8**
3/4-16	3/4-16	2.7	4000	203005-8-8s	**4VTE9**
1 1/16-12	1 1/16-12	3.32	3500	203003-12-12S	**4VTE5**
1 5/16-12	1 5/16-12	3.62	2500	203003-16-16S	**4VTE6**
1 1/16-12	1 1/16-12	3.5	3500	203005-12-12s	**4VTF1**
1 5/16-12	1 5/16-12	3.81	2500	203005-16-16s	**4VTF2**

Male SAE (ORB) to Male JIC, 90° Elbow

(M)ORB Thread	(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	9/16-18	1.19	4500	2062-4-6S	**4VTG9**
7/16-20	3/4-16	1.2	4500	2062-4-8S	**4VTH1**
9/16-18	7/16-20	1.25	4000	2062-6-4S	**4VTH2**
9/16-18	7/8-14	1.54	4000	2062-6-10S	**4VTH3**
3/4-16	7/16-20	1.45	4000	2062-8-4S	**4VTH4**
7/8-14	9/16-18	1.7	4000	2062-10-6S	**4VTH5**
1 1/16-12	7/8-14	1.94	3500	2062-12-10S	**4VTH6**
3/4 in	3/4 in	1.94 in	3,500 psi	2062-12-12S	**2F403**
5/8 in	1/2 in	1.5 in	4,000 psi	2062-10-8S	**2F401**
5/8 in	5/8 in	1.71 in	4,000 psi	2062-10-10S	**2F399**
1/2 in	3/8 in	1.45 in	4,000 psi	2062-8-6S	**2F415**
1/2 in	1/2 in	1.45 in	4,000 psi	2062-8-8S	**2F417**
1/2 in	5/8 in	1.54 in	4,000 psi	2062-8-10S	**2F413**
1/4 in	1/4 in	1.03 in	4,500 psi	2062-4-4S	**2F407**
3/8 in	3/8 in	1.25 in	4,000 psi	2062-6-6S	**2F409**
3/8 in	1/2 in	1.32 in	4,000 psi	2062-6-8S	**2F411**
1 3/16-12	1 1/16-12	2	3000	2062-14-12S	**4VTH7**
1 5/16-12	1 1/16-12	2.05	2500	2062-16-12S	**4VTH8**
1 5/16-12	1 5/16-12	2.05	2500	2062-16-16S	**4VTH9**

Male SAE (ORB) to Male JIC, Straight

(M)ORB Thread	(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	3/4-16	1.49	6000	202702-4-8S	**4VTC6**
9/16-18	7/8-14	1.71	5500	202702-6-10S	**4VTC7**
3/4-16	7/16-20	1.37	7500	202702-8-4S	**4VTC8**
3/4-16	1 1/16-12	1.94	4000	202702-8-12S	**4VTC9**
7/8-14	9/16-18	1.5	7000	202702-10-6S	**4VTD1**
7/8-14	1 1/16-12	1.88	4000	202702-10-12S	**4VTD2**
1 1/16-12	3/4-16	1.76	5000	202702-12-8S	**4VTD4**
1 1/16-12	7/8-14	1.86	5000	202702-12-10S	**4VTD5**
1 5/16-12	7/8-14	1.89	4500	202702-16-10S	**4VTD8**
1 5/16-12	1 1/16-12	1.99	4000	202702-16-12S	**4VTD9**
5/8 in	1/2 in	1.5 in	6,000 psi	202702-10-8S	**2F341**
5/8 in	5/8 in	1.7 in	5,500 psi	202702-10-10S	**2F339**
1/4 in	1/4 in	1.23 in	7,500 psi	202702-4-4S	**2F347**
1/4 in	3/8 in	1.27 in	7,000 psi	202702-4-6S	**2F349**
3/8 in	3/8 in	1.3 in	7,000 psi	202702-6-6S	**2F351**
3/8 in	1/2 in	1.44 in	6,000 psi	202702-6-8S	**2F353**
1/2 in	3/8 in	1.38 in	7,000 psi	202702-8-6S	**2F357**
1/2 in	1/2 in	1.48 in	6,000 psi	202702-8-8S	**2F359**
1/2 in	5/8 in	1.54 in	5,500 psi	202702-8-10S	**2F355**
3/4 in	3/4 in	1.97 in	4,000 psi	202702-12-12S	**2F343**
7/8-14	1 5/16-12	2.07	3500	202702-10-16S	**4VTD3**
1 1/16-12	1 5/16-12	2.04	3500	202702-12-16S	**4VTD6**
1 3/16-12	1 5/16-12	2.04	3500	202702-14-16S	**4VTD7**
1 in	1 in	2.04 in	3,500 psi	202702-16-16S	**2F345**

Straight Female NPT to Female JIC Swivel

(F)NPT Thread	(F)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
1/4 in-18	7/16"-20	1.11	4500	2242-4-4s	**4VPT3**
3/8 in-18	9/16"-18	1.16	3500	2242-6-6s	**4VPT4**
3/8 in-18	3/4"-16	1.2	3500	2242-6-8s	**4VPT5**
1/2 in-14	3/4"-16	1.48	3500	2242-8-8s	**4VPT6**
1/2 in-14	7/8"-14	1.47	3000	2242-8-10s	**4VPT7**
3/4 in-14	1 1/16"-12	1.49	3000	2242-12-12s	**4VPT8**
1 in-11-1/2	1 5/16"-12	1.85	2500	2242-16-16s	**4VPT9**

Straight Female NPT to Male JIC

(F)NPT Thread	(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/4"-18	—	1.4 in	4,500 psi	2022-4-6S	**4VPU2**
1/4"-18	7/16"-20	1.39 in	4,500 psi	2022-4-4S	**4VPU1**
3/8"-18	1/2"	1.56 in	3,500 psi	2022-6-8S	**4VPU4**
3/8"-18	9/16"-18	1.46 in	3,500 psi	2022-6-6S	**4VPU3**
1/2"-14	9/16"-18	1.69 in	3,500 psi	2022-8-6S	**4VPU5**
1/2"-14	3/4"-16	1.79 in	3,500 psi	2022-8-8S	**4VPU6**
1/2"-14	7/8"-14	1.89 in	3,500 psi	2022-8-10S	**4VPU7**
3/4"-14	1 1/16"-12	2.06 in	3,000 psi	2022-12-12S	**4VPU8**
1"-11-1/2	1 1/16"-12	2.35 in	2,500 psi	2022-16-12S	**4VPU9**
1"-11-1/2	1 5/16"-12	2.35 in	2,500 psi	2022-16-16S	**4VPV1**

Hydraulic Hose Adapter

Split Flange Size (in.)	Mfr. Model	Item No.
1 1/2" CD 62	FF5540-2416S	**14L807**

Split Flange Kits (Include 2 Flange Halves, Bolts, Washers, and O-Ring)

Split Flange Size (in.)	Mfr. Model	Item No.
1/2 in	FF593-08	**4KFN2**
3/4 in	FF593-12	**4KFN3**
1 in	FF593-16	**4KFN4**
1 1/4 in	FF593-20	**4KFN5**
1 1/2 in	FF593-24	**4KFN6**
2 in	FF593-32	**4KFN7**

37° JIC/SAE Flare Union Hydraulic Hose Adapters

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- Hose fittings are specific to hose brand.

Female JIC Cap

(F)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
7/16"-20	0.59mm	5,000 psi	210292-4S	**2F493**
1/2"-20	0.61mm	8,500 psi	210292-5S	**14L787**
9/16"-18	0.62mm	4,000 psi	210292-6S	**2F495**
3/4"-16	0.75mm	4,000 psi	210292-8S	**2F497**
7/8"-14	0.84mm	3,000 psi	210292-10S	**2F487**
1 1/16"-12	0.91mm	3,000 psi	210292-12S	**2F489**
1 5/16"-12	1.02mm	3,000 psi	210292-16S	**2F491**
1 5/8"-12	1.06mm	3,500 psi	210292-20S	**14L784**
1 7/8"-12	1.19mm	2,000 psi	210292-24S	**14L785**
2 1/2"-12	1.44mm	1,250 psi	210292-32S	**14L786**

Male JIC Plug

(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
1/2-20	0.80mm	8,500 psi	900599-5S	**14L803**
9/16-18	0.84mm	7,000 psi	900599-6S	**2F569**
—	0.80mm	8,500 psi	900599-4S	**2F567**
—	1.10mm	5,500 psi	900599-10S	**2F561**
3/4-16	0.94mm	6,000 psi	900599-8S	**2F571**
1 1/16-12	1.28mm	4,000 psi	900599-12S	**2F563**
1 5/16-12	1.33mm	4,000 psi	900599-16S	**2F565**
1 5/8-12	1.45mm	3,500 psi	900599-20S	**14L799**
1 7/8-12	1.65mm	2,000 psi	900599-24S	**14L801**
2 1/2-12	2.05mm	1,250 psi	900599-32S	**14L802**

Male JIC Tee

(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
7/16-20	1.78 in	8,500 psi	2033-4-4S	**4VPW6**
9/16-18	2.1 in	7,000 psi	2033-6-6S	**4VPW7**
3/4-16	2.5 in	6,000 psi	2033-8-8S	**4VPW8**
7/8-14	2.9 in	5,500 psi	2033-10-10S	**4VPW9**
1 1/16-12	3.32 in	4,000 psi	2033-12-12S	**4VPX1**
1 5/16-12	3.62 in	3,500 psi	2033-16-16S	**4VPX2**

Male JIC to Male JIC Bulkhead

(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
—	2.18 in	7,000 psi	2041-6-6S	**2F361**
7/16-20	2.07 in	8,500 psi	2041-4-4S	**4HL60**
3/4-16	2.44 in	6,000 psi	2041-8-8S	**2F363**
7/8-14	2.74 in	5,500 psi	2041-10-10S	**4VPW3**
1 1/16-12	3.09 in	4,000 psi	2041-12-12s	**4VPW4**
1 5/16-12	3.14 in	3,500 psi	2041-16-16S	**4VPW5**

Male JIC Union

(M)JIC Thread	Overall Length	Max. Working Pressure @ 70°F	Mfr. Model	Item No.
7/16-20	1.37 in	3,500 psi	2027-4-4S	**2F333**
9/16-18 x 7/16-20	1.4 in	7,000 psi	2027-6-4S	**4VPX3**
9/16-18	1.41 in	7,000 psi	2027-6-6S	**2F335**
3/4-16 x 9/16-18	1.52 in	6,000 psi	2027-8-6S	**4VPX4**
3/4-16	1.62 in	6,000 psi	2027-8-8S	**2F337**
7/8-14 x 3/4-16	1.8 in	3,000 psi	2027-10-8S	**49U012**
7/8-14	1.88 in	5,500 psi	2027-10-10S	**2F327**
1 1/16-12 x 7/8-14	2.05 in	4,000 psi	2027-12-10S	**4VPX6**
1 1/16-12	2.16 in	4,000 psi	2027-12-12S	**2F329**
1 5/16-12	2.25 in	3,500 psi	2027-16-16S	**2F331**

45° Elbow Flange Adapter

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
3/4-16	—	4000	500023-8S	**38YR51**
1 1/16-12	—	3000	500023-12S	**38YR52**
1 5/16-12	—	2500	500023-16S	**38YR53**
1 5/8-12	—	2000	500023-20S	**38YR54**
1 7/8-12	—	1500	500023-24S	**38YR55**
2 1/2-12	—	1125	500023-32S	**38YR56**

45° Elbow Male JIC Reducer to Female JIC Swivel

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	7/16-20	5500	2070-4-4S	**4VPX7**
—	—		2070-6-6S	**4VPX8**
3/4-16	3/4-16	4000	2070-8-8S	**4VPX9**
7/8-14	7/8-14	3000	2070-10-10S	**4VPY1**
1 1/16-12	1 1/16-12	3000	2070-12-12S	**4VPY2**
1 5/16-12	1 5/16-12	2500	2070-16-16S	**4VPY3**

90° Elbow Flange Adapter

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
3/4-16	—	4000	500024-8S	**38YR57**
1 7/8-12	—	1500	500024-24S	**38YR58**
2 1/2-12	—	1125	500024-32S	**38YR59**

90° Elbow Male JIC to Female JIC Swivel

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	7/16-20	5500	2071-4-4S	**4HL66**
—	—		2071-6-6S	**2F423**
—	—		2071-8-8S	**2F425**
1 1/16-12	1 1/16-12	3000	2071-12-12S	**4VPY4**
1 5/16-12	1 5/16-12	2500	2071-16-16S	**4VPY5**

Male JIC Reducer to Female JIC Reducer

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
3/4-16	7/8-14	3000	2215-10-8S	**4VPZ5**
1 1/16-12	7/8-14	3000	2215-10-12S	**4VPZ6**
7/8-14	1 1/16-12	3000	2215-12-10S	**4VPZ7**
1 5/16-12	1 1/16-12	2500	2215-12-16S	**4VPZ8**
1 5/8-12	1 5/16-12	2000	2215-16-20S	**4VPZ9**
1 5/8-12	1 7/8-12	1500	2215-24-20S	**4VRA1**

Male JIC Reducer to Female JIC Swivel

Male JIC Size (in.)	Female JIC Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
7/16-20	9/16-18	4000	221501-6-4S	**4VPY6**
7/16-20	3/4-16	4000	221501-8-4S	**4VPY7**
9/16-18	3/4-16	4000	221501-8-6S	**4VPY8**
9/16-18	7/8-14	3000	221501-10-6S	**4VPY9**
3/4-16	1 1/16-12	3000	221501-12-8S	**4VPZ1**
7/8-14	1 5/16-12	2500	221501-16-10S	**4VPZ2**
1 1/16-12	1 5/16-12	2500	221501-16-12S	**4VPZ3**
1 5/16-12	1 5/8-12	2000	221501-20-16S	**4VPZ4**

Male JIC to Split Flange, Straight

(M)JIC Thread	L (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
3/4 in-16	1.66	5000	500025-8s	**4VRA2**
1 1/16 in-12	1.91	4000	500025-12s	**4VRA3**
1 5/16 in-12	2.01	3500	500025-16s	**4VRA4**
1 5/8 in-12	2.46	3500	500025-20s	**4VRA5**
1 7/8 in-12	2.71	2000	500025-24s	**4VRA6**
2 1/2 in-12	3.08	1250	500025-32s	**4VRA7**

37°/45° JIC/SAE Flare Hydraulic Hose Adapters

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- More sizes and fittings are available on Grainger.com

(M)NPT Size (in.)	Male SAE Size (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
45° Flare, Male NPT				
Brass				
⅛ in-27	7/16"-20	1000	2000-2-4B	**14L769**
¼ in-18	7/16"-20	1000	2000-4-4B	**14L770**
¼ in-18	½"-20	1000	2000-4-5B	**14L771**
¼ in-18	⅝"-18	1000	2000-4-6B	**14L772**
½ in-14	¾"-16	1000	2000-8-8B	**14L773**
¾ in-14	1 1/16"-14	1000	2000-12-12B	**14L768**
45° Flare, Male NPT, 90° Elbow				
¼ in-18	7/16"-20	1000	2003-4-4B	**14L774**
¼ in-18	⅝"-18	1000	2003-4-6B	**14L775**
¼ in-18	¾"-16	1000	2003-4-8B	**14L776**
⅜ in-18	⅞"-14	1000	2003-6-10B	**14L777**
½ in-14	¾"-16	1000	2003-8-8B	**14L778**

(M)NPT Size (in.)	Male JIC Size (in.)	Max. Working Pressure @ 70°F	Overall Length	Mfr. Model	Item No.
37° (M)NPT to (M)JIC					
Carbon Steel					
⅛"-27	7/16-20	8,500 psi	0.72 in	2023-2-4S	**6W445**
¼"-18	7/16-20	8,500 psi	0.86 in	2023-4-4S	**6W446**
¼"-18	9/16-18	7,000 psi	0.86 in	2023-4-6S	**6W447**
⅜"-18	9/16-18	7,000 psi	0.95 in	2023-6-6S	**6W448**
⅜"-18	¾-16	6,000 psi	0.98 in	2023-6-8S	**6W449**
½"-14	¾-16	6,000 psi	1.17 in	2023-8-8S	**6W450**
¾"-14	1 1/16-12	4,000 psi	1.2 in	2023-12-12S	**2F311**
1"-11-1/2	1 5/16-12	3,500 psi	3 in	2023-16-16s	**4VRD2**
(M)NPT to 37° (M)JIC, 90° Elbow					
⅛"-27	7/16-20	8,500 psi	0.78 in	2024-2-4S	**6W439**
¼"-18	—	8,500 psi	1.09 in	2024-4-4S	**6W440**
¼"-18	½-20	8,500 psi	1.09 in	2024-4-5S	**2F319**
¼"-18	9/16-18	7,000 psi	1.09 in	2024-4-6S	**6W441**
⅜"-18	7/16-20	8,000 psi	1.22 in	2024-6-4S	**2F321**
⅜"-18	½-20	8,000 psi	1.12 in	2024-6-5S	**14L783**
⅜"-18	—	7,000 psi	1.22 in	2024-6-6S	**6W442**
⅜"-18	—	6,000 psi	1.25 in	2024-6-8S	**6W443**
¾"-14	¾-16	5,000 psi	1.59 in	2024-12-8S	**4VRD7**
½"-14	⅞-14	5,500 psi	1.47 in	2024-8-10S	**2F323**
½"-14	9/16-18	6,000 psi	1.47 in	2024-8-6S	**2F325**
½"-14	¾-16	6,000 psi	1.47 in	2024-8-8S	**6W444**
½"-14	1 1/16-12	4,000 psi	1.59 in	2024-8-12S	**4VRD6**
¾"-14	1 1/16-12	4,000 psi	1.59 in	2024-12-12S	**2F313**
¾"-14	1 5/16-12	3,500 psi	1.78 in	2024-12-16S	**4VRD8**
1"-11-1/2	1 1/16-12	4,000 psi	1.97 in	2024-16-12S	**4VRD9**
1"-11-1/2	1 5/16-12	3,500 psi	1.97 in	2024-16-16S	**2F315**
1¼"-11-1/2	1⅝-12	3,000 psi	2.06 in	2024-20-20S	**14L782**
316 Stainless Steel					
⅛"-27	—	4,000 psi	—	J4MEBO	**4HM24**
¼"-18	—	4,500 psi	—	J4-4MEBO	**4HM22**
¼"-18	—	4,000 psi	—	J5-4MEBO	**4HM26**
¼"-18	—	4,000 psi	—	J6MEBO	**4HM30**
⅜"-18	—	4,000 psi	—	J6-6MEBO	**4HM28**
⅜"-18	—	4,000 psi	—	J8MEBO	**4HM34**
¾"-14	—	5,000 psi	—	2024-12-8SS	**4VRD3**
¾"-14	1 5/16-12	3,500 psi	—	2024-12-16SS	**4VRD4**
½"-14	7/16-20	6,000 psi	—	2024-8-4SS	**4VRD5**
½"-14	—	4,000 psi	—	J8-8MEBO	**4HM32**
½"-14	—	3,000 psi	—	J10MEBO	**4HM18**
¾"-14	—	3,000 psi	—	J12MEBO	**4HM20**
1"-11-1/2	1 1/16-12	4,000 psi	—	2024-16-12SS	**4VRE1**
1"-11-1/2	1 5/16-12	4,000 psi	—	2024-16-16SS	**4VRE2**

(M)NPT Size (in.)	Male JIC Size (in.)	Max. Working Pressure @ 70°F	Overall Length	Mfr. Model	Item No.
(M)NPT to 37° (M)JIC, Straight Bulkhead					
Carbon Steel					
¼"-18	9/16-18	7,000 psi	2.12 in	2240-4-6s	**4VRF1**
¼"-18	7/16-20	8,500 psi	2.03 in	2240-4-4s	**4VRE9**
⅜"-18	¾-16	6,000 psi	2.36 in	2240-6-8s	**4VRF2**
½"-14	⅞-14	5,500 psi	2.71 in	2240-8-10s	**4VRF3**
¾"-14	1 1/16-12	4,000 psi	2.92 in	2240-12-12s	**4VRF4**
1"-11-1/2	1 5/16-12	3,500 psi	3.11 in	2240-16-16s	**4VRF5**
(M)NPT to 37° (M)JIC, Straight					
⅛"-27	7/16-20	8,500 psi	1.22 in	2021-2-4S	**6W433**
⅛"-27	9/16-18	7,000 psi	1.2 in	2021-2-6S	**2F297**
¼"-18	7/16-20	8,500 psi	1.42 in	2021-4-4S	**6W434**
¼"-18	½"-20	8,500 psi	1.42 in	2021-4-5S	**2F301**
¼"-18	9/16"-18	7,000 psi	1.43 in	2021-4-6S	**6W435**
¼"-18	¾"-16	6,000 psi	1.53 in	2021-4-8S	**2F303**
⅜"-18	7/16-20	8,000 psi	1.42 in	2021-6-4S	**2F305**
⅜"-18	½-20	8,000 psi	1.42 in	2021-6-5S	**14L781**
⅜"-18	9/16"-18	7,000 psi	1.43 in	2021-6-6S	**6W436**
⅜"-18	¾"-16	6,000 psi	1.53 in	2021-6-8S	**6W437**
⅜"-18	⅞-14	5,500 psi	1.7 in	2021-6-10S	**4VRF8**
½"-14	7/16-20	6,000 psi	1.68 in	2021-8-4S	**4VRG1**
½"-14	9/16-18	6,000 psi	1.69 in	2021-8-6S	**4VRG3**
½"-14	¾-16	6,000 psi	1.79 in	2021-8-8S	**6W438**
½"-14	⅞"-14	5,500 psi	1.89 in	2021-8-10S	**2F307**
½"-14	1 1/16-12	4,000 psi	2.06 in	2021-8-12S	**2F309**
¾"-14	¾-16	5,000 psi	1.85 in	2021-12-8S	**2F291**
¾"-14	⅞-14	5,000 psi	1.95 in	2021-12-10S	**4VRG7**
¾"-14	1 1/16-12	4,000 psi	2.06 in	2021-12-12S	**3F815**
¾"-14	1 3/16-12	4,000 psi	2.06 in	2021-12-14S	**4VRG9**
1 5/16"-12	1 5/16-12	3,500 psi	2.11 in	2021-12-16S	**2F289**
1"-11-1/2	1 1/16-12	4,000 psi	2.25 in	2021-16-12S	**2F293**
1"-11-1/2	1 5/16-12	3,500 psi	2.3 in	2021-16-16S	**2F295**
1"-11-1/2	¾"-16	4,000 psi	1.89 in	2021-16-8S	**4VRH5**
1¼"-11-1/2	1⅝-12	3,000 psi	2.45 in	2021-20-20S	**2F299**
1½"-11-1/2	1⅞-12	2,000 psi	2.68 in	2021-24-24S	**14L779**
2"-11-1/2	2½-12	1,250 psi	3.11	2021-32-32S	**14L780**
316 Stainless Steel					
⅛"-27	7/16"-20	4,500 psi	1.22	J4CBO	**4HM23**
¼"-18	7/16"-20	4,500 psi	1.42	J4-4CBO	**4HM21**
¼"-18	½"-20	4,000 psi	1.42	J5-4CBO	**4HM25**
¼"-18	9/16"-18	4,000 psi	1.43	J6CBO	**4HM29**
¼"-18	¾-16	6,000 psi	1.53	2021-4-8SS	**4VRF6**
⅜"-18	7/16-20	6,000 psi	1.42	2021-6-4SS	**4VRF7**
⅜"-18	9/16"-18	4,000 psi	1.43	J6-6CBO	**4HM27**
⅜"-18	¾"-16	4,000 psi	1.53	J8CBO	**4HM33**
⅜"-18	⅞-14	5,500 psi	1.7	2021-6-10SS	**4VRF9**
½"-14	7/16-20	6,000 psi	1.68	2021-8-4SS	**4VRG2**
½"-14	9/16-18	6,000 psi	1.69	2021-8-6SS	**4VRG4**
½"-14	1 1/16-12	6,000 psi	2.06	2021-8-12SS	**4VRG5**
¾"-14	¾-16	5,000 psi	1.85	2021-12-8SS	**4VRG6**
¾"-14	⅞-14	5,000 psi	1.95	2021-12-10SS	**4VRG8**
¾"-14	1 1/16"-12	3,000 psi	2.06	J12CBO	**4HM19**
¾"-14	1 3/16-12	4,000 psi	2.06	2021-12-14SS	**4VRH1**
¾"-14	1 5/16-12	3,500 psi	2.11	2021-12-16SS	**4VRH2**
½"-14	¾"-16	4,000 psi	1.79	J8-8CBO	**4HM31**
½"-14	⅞"-14	3,000 psi	1.89	J10CBO	**4HM17**
1"-11-1/2	1 1/16-12	3,500 psi	2.25	2021-16-12SS	**4VRH3**
1"-11-1/2	1 5/16-16	3,500 psi	2.3	2021-16-16SS	**4VRH4**
(M)NPT to 37° (M)JIC, Tee					
Carbon Steel					
¼"-18	7/16-20	8,500 psi	2.1 in	2030-4-4S	**4VRE3**
¼"-18	9/16-18	7,000 psi	2.12 in	2030-4-6S	**4VRE4**
⅜"-18	9/16-18	7,000 psi	2.12 in	2030-6-6S	**4VRE5**
½"-14	¾-16	6,000 psi	2.66 in	2030-8-8S	**4VRE6**
¾"-14	1 1/16-12	4,000 psi	3.32 in	2030-12-12S	**4VRE7**
1"-11-1/2	1 5/16-12	3,500 psi	3.62 in	2030-16-16S	**4VRE8**

SAE (ORB) to NPSM Swivel Hydraulic Hose Adapters

EATON | Aeroquip

Fitting Size (NPSM)	Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female NPSM Swivel, 45° Elbow			
⅜"-18	9/16-18	4000	**4VRW7**
½"-14	¾-16	3500	**4VRW8**
½"-14	⅞-14	3500	**4VRW9**
¾"-14	1 1/16-12	3500	**4VRX1**
1"-11-1/2	1 5/16-12	3000	**4VRX2**
Male SAE (ORB) to Female NPSM Swivel, 90° Elbow			
¼"-18	7/16-20	5000	**4VRX3**
⅜"-18	9/16-18	4000	**4VRX4**
½"-14	⅞-14	3500	**4VRX5**
½"-14	¾-16	3500	**4VRX6**
¾"-14	1 1/16-12	3500	**4VRX7**
1"-11-1/2	1 5/16-12	3000	**4VRX8**
1¼"-11-1/2	1⅝-12	2000	**4VRX9**
1½"-11-1/2	1⅞-12	1500	**4VRY1**
Male SAE (ORB) to Female NPSM Swivel, Straight			
¼"-18	7/16-20	5000	**4VRW3**
⅜ in	—	4,000 psi	**2F419**
½"-14	¾-16	3500	**2F421**
½"-14	⅞-14	3500	**4HL65**
¾"-14	1 1/16-12	3500	**4HL63**
1"-11-1/2	1 5/16-12	3000	**4VRW4**
1¼"-11-1/2	1⅝-12	2000	**4VRW5**
1½"-11-1/2	1⅞-12	1500	**4VRW6**

Male SAE Size (in.)	Female SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female SAE (ORB), Reducers			
7/16-20	9/16-18	3500	**4VRZ5**
7/16-20	¾-16	3000	**4VRZ6**
9/16-18	7/16-20	4500	**4VRZ7**
9/16-18	¾-16	3000	**4VRZ8**
¾-16	9/16-18	3500	**4VRZ9**
¾-16	⅞-14	2500	**4VTA1**
⅞-14	9/16-18	3500	**4VTA2**
⅞-14	¾-16	3000	**4VTA3**
⅞-14	1 1/16-12	1800	**4VTA4**
1 1/16-12	9/16-18	3500	**4VTA5**
1 1/16-12	¾-16	3000	**4VTA6**
1 1/16-12	⅞-14	2500	**4VTA7**
1 1/16-12	1 5/16-12	1600	**4VTA8**
1 5/16-12	¾-16	3000	**4VTA9**
1 5/16-12	⅞-14	2500	**4VTC1**
1 5/16-12	1 1/16-12	1800	**4VTC2**
1 5/16-12	1⅝-12	1500	**4VTC3**
1⅝-12	1 1/16-12	1800	**4VTC4**
1⅝-12	1 5/16-12	1600	**4VTC5**

(F)NPT Size	Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male SAE (ORB) to Female NPT, Straight			
¼-18	7/16-20	4500	**4VRY2**
¼-18	9/16-18	4500	**4VRY3**
⅜-18	9/16-18	3500	**4VRY4**
⅜-18	¾-16	3500	**4VRY5**
⅜-18	⅞-14	3500	**4VRY6**
½-14	¾-16	3500	**4VRY7**
½-14	⅞-14	3500	**4VRY8**
½-14	1 1/16-12	3500	**4VRY9**
¾-14	⅞-14	3000	**4VRZ1**
¾-14	1 1/16-12	3000	**4VRZ2**
¾-14	1 5/16-12	3000	**4VRZ3**
1 - 11½	1 5/16-12	2500	**4VRZ4**

Male SAE Size (in.)	Max. Working Pressure (psi)	Item No.
Male ORB, Plug		
7/16 in-20	7500	**4VRU9**
9/16 in-18	7500	**4VRV1**
½ in-20	5000	**38YN85**
¾ in-16	7500	**4VRV2**
⅞ in-14	7500	**4VRV3**
1 1/16 in-12	5000	**4VRV4**
1 5/16 in-12	4500	**4VRV5**
1⅝ in-12	2500	**38YN82**
1⅞ in-12	2500	**38YN83**
2½ in-12	2000	**38YN84**
Male SAE (ORB), Hex Socket Plug		
7/16 in-20	7500	**4VRV6**
9/16 in-18	7500	**4VRV7**
¾ in-16	7500	**4VRV8**
⅞ in-14	7500	**4VRV9**
1 1/16 in-12	5000	**4VRW1**
1 5/16 in-12	4500	**4VRW2**

EATON | Aeroquip | EATON Authorized Distributor Hansen | SAFEWAY

Hydraulic Quick Couplers

- Temp. range: -40 to 250°F, except Hansen models are -4 to 212°F

For additional information, see Grainger.com.

2F547

2F559

2F625

2F619

Coupling Size	Body Material	Flow Rate	Max. Pressure	Thread Size	Mfr. Model	Item No.
Eaton Aeroquip 5600 Series,						
¼"	Steel	4 lpm	5000 psi	⅛"-27	5601-2-4S	**2F541**
	Steel	4 lpm	5000 psi	⅛"-27	5602-2-4S	**2F553**
	Steel	4 lpm	5000 psi	¼"-18	5601-4-4S	**2F543**
	Steel	4 lpm	5000 psi	¼"-18	5602-4-4S	**2F555**
⅜"	Steel	6 lpm	4000 psi	⅜"-18	5602-6-6S	**2F557**
	Steel	23 lpm	4000 psi	⅜"-18	5601-6-6S	**2F545**
⅝"	Steel	45 lpm	4000 psi	½"-14	5601-8-10S	**2F547**
	Steel	45 lpm	4000 psi	½"-14	5602-8-10S	**2F559**
¾"	Steel	106 lpm	4000 psi	¾"-14	5601-12-12S	**2F537**
	Steel	106 lpm	4000 psi	¾"-14	5602-12-12S	**2F549**
1"	Steel	189 lpm	4000 psi	1"-11-1/2	5601-16-16S	**2F539**
	Steel	189 lpm	4000 psi	1"-11-1/2	5602-16-16S	**2F551**
Eaton Hansen FD45, B Series, NPT (ISO 7241-1 Series B)						
¼"	Steel	11 lpm	—	¼"-18	FD45-1003-0404	**2F625**
	Steel	11 lpm	—	¼"-18	FD45-1002-0404	**2F619**
⅜"	Steel	23 lpm	4000 psi	⅜"-18	FD45-1002-0606	**2F621**
	Steel	23 lpm	4000 psi	⅜"-18	FD45-1003-0606	**2F627**
⅝"	Steel	45.42 lpm	4000 psi	½"-14	FD45-1002-0810	**2F623**
	Steel	45.42 lpm	4000 psi	½"-14	FD45-1003-0810	**2F629**
¾"	Steel	105.99 lpm	4000 psi	¾"-14	FD45-1003-1212	**4HL87**
	Steel	106 lpm	4000 psi	¾"-14	FD45-1002-1212	**4HL85**
1"	Steel	189 lpm	4000 psi	1"-11-1/2	FD45-1002-1616	**4HL86**
	Steel	189.27 lpm	4000 psi	1-11 ½	FD45-1003-1616	**4HL88**

PLUGS For Use With	PLUGS Mfr. Model	PLUGS Item No.	CAPS For Use With	CAPS Mfr. Model	CAPS Item No.
Eaton Series FD45 Dust Plugs & Caps					
2F625	FD45-1041-04	**4VPP6**	2F619	FD45-1040-04	**4VPN9**
2F627	FD45-1041-06	**4VPP7**	2F621	FD45-1040-06	**4VPP1**
2F629	FD45-1041-10	**4VPP8**	2F623	FD45-1040-10	**4VPP2**
4HL87	FD45-1041-12	**4VPP9**	4HL85	FD45-1040-12	**4VPP3**
4HL88	FD45-1041-16	**4VPR1**	4HL86	FD45-1040-16	**4VPP4**

2F535

2F533

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	COUPLER BODY Mfr. Model	COUPLER BODY Item No.	NIPPLE Mfr. Model	NIPPLE Item No.
Eaton Aeroquip 5100 Series, FNPT								
¾"-14	¾"	3,000	10	B	5100-S5-12B	**4VTR8**	—	—
	¾"	3,000	18	B	—	—	5100-S2-12B	**4VTR6**
1"-11-1/2	1"	3,000	3	B	—	—	5100-S2-16B	**2F533**
	1"	3,000	40	B	5100-S5-16B	**2F535**	—	—
1¼"-11-1/2	1¼"	2,750	10	B	5100-S5-20B	**4VTR9**	—	—
	1¼"	2,750	75	B	—	—	5100-S2-20B	**4VTR7**

PLUGS For Use With	PLUGS Mfr. Model	PLUGS Item No.	CAPS For Use With	CAPS Mfr. Model	CAPS Item No.
Eaton Aeroquip 5100 Series Dust Plugs & Caps					
4VTR8	5100-S9-12	**4VPN5**	4VTR6	5100-S7-12	**4VPN2**
2F535	5100-S9-16	**4VPN6**	2F533	5100-S7-16	**4VPN3**
4VTR9	5100-S9-20	**4VPN7**	4VTR7	5100-S7-20	**4VPN4**

4VTT5

4VTT3

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	COUPLER BODY Mfr. Model	COUPLER BODY Item No.	NIPPLE Mfr. Model	NIPPLE Item No.
Eaton Aeroquip FD90 Series, FNPT								
¼"-18	¼"	7,000	0.5	S	FD90-1021-04-04	**4VTT5**	—	—
7/16"-20	¼"	7,000	10	S	FD90-1041-04-04	**4VTT6**	—	—
Eaton Aeroquip FD90 Series, MNPT								
⅛"-27	¼"	7,000	10	S	—	—	FD90-1012-02-04	**4VTT3**
¼"-18	¼"	7,000	0.5	S	—	—	FD90-1012-04-04	**4VTT4**
Eaton Aeroquip FD90 Series, MSAE								
7/16"-20	¼"	7,000	3	S	—	—	FD90-1044-04-04	**4VTT7**
½"-20	¼"	7,000	3	S	—	—	FD90-1044-05-04	**4VTT8**
9/16"-18	¼"	7,000	26	S	—	—	FD90-1044-06-04	**4VTT9**

4VPR2

For Use With	Mfr. Model	Item No.
Eaton Aeroquip FD90 Series Dust Cap		
4VTT3, 4VTT4, 4VTT7, 4VTT8, 4VTT9	FD90-1040-04	**4VPR2**

2F781

4VTT1

2F773

2F775

4VTX1

4VTX3

Thread Size	Body Size	Max. Pressure	Flow Rate	Body Mat'l*	Mfr Model No	COUPLER BODY Item No.	COUPLER NIPPLE Item No.
Safeway S20 Series, FNPT							
½"-14	½"	3,000	12	S	S71-4	—	**2F781**
Safeway S70 Series, FNPT							
½"-14	½"	3,000	6	S	S75-4	**4VTZ8**	—
Safeway S30 Series, FNPT							
⅜"-18	⅜"	10,000	6	S	S31-3P	—	**4VTT1**
Safeway S30 Series, MNPT							
⅜"-18	⅜"	10,000	6	S	S35-3P	**4VTT2**	—
Safeway S20 Series, Female ORB							
¾"-16	½"	3,000	3	S	S25-15	**4VTP1**	—
	½"	3,000	50	S	S25-15P	**4VTP2**	—
⅞"-14	½"	3,000	10	S	S25-16	**4VTP3**	—
	½"	3,000	10	S	S25-16P	**4VTP4**	—
¾"-16	½"	3,000	4	S	S71-15	—	**4VTR2**
	½"	3,000	26	S	S71-15P	—	**4VTR3**
⅞"-14	½"	3,000	12	S	S71-16	—	**4VTR4**
	½"	3,000	12	S	S71-16P	—	**4VTR5**
Safeway S20 Series, FNPT							
¾"-14	¾"	3,000	28	S	S25F-6	**4VTZ6**	—
¼"-18	¼"	3,000	50	S	S25A-2P	**4VTN6**	—
	¼"	3,000	3	S	S25A-2	**2F773**	—
	¼"	3,000	3	S	S41-2	—	**2F775**
⅜"-18	⅜"	3,000	6	S	S41-3	—	**2F777**
¾"-14	¾"	3,000	28	S	S21F-6	—	**4VTZ4**
¼"-18	¼"	3,000	12	S	S41-2P	—	**4YNX4**
⅜"-18	⅜"	3,000	75	S	S41-3P	—	**4VTP7**
½"-14	½"	3,000	12	S	S71-4P	—	**4VTP8**
1"-11-1/2	1"	3,000	10	S	S21-8P	—	**4VTZ3**
½"-14	½"	3,000	12	S	S25-4P	**4VTN8**	—
1"-11-1/2	1"	3,000	6	S	S25-8P	**4VTN9**	—
½"-14	½"	3,000	12	S	S25-4	**2F771**	—
Safeway S40 Series, FNPT							
¾"-14	½"	3,000	12	S	S71-6	—	**4VTP9**
	½"	3,000	12	S	S71-6P	—	**4VTR1**
⅜"-18	⅜"	3,000	6	S	S45-3	**2F779**	—
¾"-14	½"	3,000	12	S	S45-6	**4VTP5**	—
	½"	3,000	18	S	S45-6P	**4VTP6**	—
Safeway FF49 Series, FNPT							
⅜"-18	⅜"	10,000	12	S	FF495-3	**4VTX1**	—
½"-14	⅜"	10,000	12	S	FF495-3-1/2	**4VTX2**	—
⅜"-18	⅜"	10,000	26	S	FF491-3	—	**4VTX3**
½"-14	⅜"	10,000	12	S	FF491-4	—	**4VTX4**
Safeway FFE49 Series, FNPT							
½"-14	½"	4,000	26	S	FFE495-4	**4VTX6**	—
¾"-14	½"	4,000	10	S	FFE495-4-3/4	**4VTX7**	—
	¾"	4,000	50	S	FFE495-6	**4VTX8**	—
1"-11-1/2	¾"	4,000	12	S	FFE495-6-1	**4VTX9**	—
½"-14	½"	4,000	28	S	FFE491-4	—	**4VTY3**
¾"-14	½"	4,000	28	S	FFE491-4-3/4	—	**4VTY4**
	¾"	4,000	12	S	FFE491-6	—	**4VTY5**
1"-11-1/2	¾"	4,000	26	S	FFE491-6-1	—	**4VTY6**
	1"	3,000	50	S	FFE491-8	—	**4VTY7**

33M282

33M273

Thread Size	Body Size	Max. Pressure PSI	Flow Rate GPM	Body Mat'l*	COUPLER NIPPLE, FLAT FACE, MALE Mfr. Model	COUPLER NIPPLE, FLAT FACE, MALE Item No.	COUPLER BODY, FLAT FACE, FEMALE Mfr. Model	COUPLER BODY, FLAT FACE, FEMALE Item No.
Eaton Hansen FF Series, Female UNF								
9/16"-18	¼"	5,800	7.2	S	6FFP56UN	**33M284**	—	—
	¼"	5,800	27	S	—	—	6FFS56UN	**33M278**
¾"-16	⅜"	5,075	6	S	10FFP75UN	**33M293**	—	—
⅞"-14	½"	5,075	12	S	12FFP87UN	**33M288**	—	—
1 1/16"-12	½"	5,075	12	S	12FFP106UN	**33M282**	—	—
	¾"	5,075	26	S	19FFP106UN	**33M290**	—	—
	¼"	5,800	12	S	—	—	16FFS106UN	**33M279**
	⅝"	5,800	12	S	16FFP106UN	**33M291**	—	—
Eaton Hansen FF Series, FNPT								
¼"-18	¼"	5,800	12	S	6FFP25	**33M283**	6FFS25	**33M277**
⅜"-18	⅜"	5,075	6	S	10FFP37	**33M292**	10FFS37	**33M280**
½"-14	½"	5,075	12	S	12FFP50	**33M286**	12FFS50	**33M274**
¾"-16	⅜"	5,075	6	S	—	—	10FFS75UN	**33M281**
¾"-14	¾"	5,075	12	S	19FFP75	**33M289**	19FFS75	**33M294**
¾"-16	½"	5,075	14	S	—	—	12FFS75UN	**33M275**
1"-11-1/2	1"	5,075	12	S	—	—	25FFS100	**33M273**
	1"	5,075	50	S	25FFP100	**33M285**	—	—
1 1/16"-12	½"	5,075	3.8	S	—	—	12FFS106UN	**33M276**
Eaton Hansen FF Series, FSAE								
¾"-16	½"	5,075	13	S	12FFP75UN	**33M287**	—	—

** B = Brass, S = Steel, ZPS = Zinc Plated Steel.*

High-Pressure Hydraulic Couplers

ENERPAC | SAFEWAY

- Max. working pressure: 10,000 psi

ENERPAC

Dust caps included (except flush-face model).

High-Flow—Poppet-style with crimped seal retention.

Flush-Face—Engage sleeve-locking mechanism by rotating sleeve after connection. Zero leaks.

SAFEWAY

S30 Series—Heavy-duty poppet valving, while fully interchangeable with ball check models (including older SafeWay product), eliminates low pressure leakage.

¼" High-Pressure Coupler Set—Use with 6W461 hand pump on page 2466 and 6Z782 cylinder on page 2468. Dust cap for female half only.

6BU53

2F769

Description	Brand	Mfr. Model	Item No.
Couplers			
⅜"-18 High-Flow Coupler Set	Enerpac	C604	**6BU53**
⅜"-18 High-Flow Female Coupler	Enerpac	CR400	**6BU55**
⅜"-18 High-Flow Male Coupler	Enerpac	CH604	**6BU54**
⅜"-18 Flush-Face Coupler Set	Enerpac	F604	**5ZL40**
⅜"-18 Flush-Face Male Coupler	Enerpac	FH604	**4YDV8**
⅜"-18 Flush-Face Female Coupler	Enerpac	FR400	**4YDV9**
⅜"-18 Regular Spee-D-Coupler® Set	Enerpac	A604	**46C607**
⅜"-18 Regular Female Spee-D-Coupler®	Enerpac	AR400	**46C610**
⅜"-18 Regular Male Spee-D-Coupler®	Enerpac	AH604	**46C608**
¼"-18 Regular Female Coupler	Enerpac	AR630	**46C611**
¼"-18Regular Male Coupler	Enerpac	AH630	**46C609**
⅜"-18 High-Pressure Coupler Set	Safeway Hydraulics	S30-3P	**2F769**
¼"-18 High-Pressure Coupler Set	Safeway Hydraulics	S30-2P	**3KD28**
⅜"-18 High-Pressure Female Coupler	Safeway Hydraulics	S35-3P	**4VTT2**
⅜"-18 High-Pressure Male Coupler	Safeway Hydraulics	S31-3P	**4VTT1**
⅜"-18 Flush-Face Male Coupler	Safeway Hydraulics	FF491-3	**4VTX3**
Metal Coupler Dust Caps For C-604 Series Only			
Set (Includes Male and Female)	Enerpac	CD411	**3PCV2**
Female	Enerpac	CD411M	**3PCV3**
Male	Enerpac	CD415M	**3PCV4**

31A788 31A926 31A885 31A851 31A897 31A845 31A887 31A832 31A821

31A798 31A803 31A792 31A952 31A988 31A977 31A914

Hydraulic Quick Couplers

Parker

- Temp. range: -40 to 250°F, except 3000 Series are -22 to 230°F

For additional information, see Grainger.com®.

Coupling Size	Body Material*	Max. Flow Rate	Thread Size	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.	COUPLER BODY Mfr. Model	COUPLER BODY Item No.
3000, Female NPTF							
¼ in	S	11.36 lpm	¼"-18	3010-2	**31A790**	—	—
⅜ in	S	22.71 lpm	⅜"-18	3010-3	**31A791**	—	—
3000, Male NPTF							
¼ in	S	11.36 lpm	¼"-18	—	—	3050-2	**31A788**
⅜ in	S	22.71 lpm	⅜"-18	—	—	3050-3	**31A789**
4000, Female ORB							
¼ in	S	11.36 lpm	9/16"-18	4010-T6	**31A943**	4050-T6	**31A937**
½ in	S	45.42 lpm	¾"-16	—	—	4050-15	**31A926**
	S	45.42 lpm	¾"-16	—	—	4050-15P	**31A927**
	S	45.42 lpm	⅞"-14	—	—	4050-16	**31A928**
	S	45.42 lpm	⅞"-14	—	—	4050-16P	**31A929**
4000, NPTF							
¼ in	S	11.36 lpm	¼"-18	4010-2P	**31A940**	4050-2P	**31A930**
⅜ in	S	22.71 lpm	⅜"-18	4010-3P	**31A941**	4050-3P	**31A931**
½ in	S	45.42 lpm	½"-14	—	—	4050-4	**31A932**
	S	45.42 lpm	½"-14	—	—	4050-4P	**31A933**
	S	45.42 lpm	¾"-14	—	—	4050-5	**31A934**
	S	45.42 lpm	¾"-14	—	—	4050-5P	**31A935**
¾ in	S	105.99 lpm	¾"-14	—	—	4150-5	**31A938**
1 in	S	189.27 lpm	1"-11-1/2	4010-6P	**31A942**	—	—
	S	189.3 lpm	1"-11-1/2	—	—	4050-6P	**31A936**
4200, NPTF							
½ in	S	45.42 lpm	½"-14	—	—	4250-4	**31A939**
60, Female NPTF, ISO 7241-1 Series B							
⅛ in	S	3 lpm	⅛"-27	H1-63	**31A885**	H1-62	**31A851**
	303	3 lpm	⅛"-27	SH1-63	**31A897**	SH1-62	**31A863**
	316	3 lpm	⅛"-27	SSH1-63Y	**31A909**	SSH1-62Y	**31A874**
	B	3 lpm	⅛"-27	BH1-61	**31A879**	—	—
	B	3 lpm	⅛"-27	BH1-60	**31A845**	—	—
¼ in	B	11 lpm	¼"-18	BH2-61	**31A880**	BH2-60	**31A846**
	303	11 lpm	¼"-18	SH2-63	**31A898**	SH2-62	**31A864**
	316	11 lpm	¼"-18	SSH2-63Y	**31A910**	SSH2-62Y	**31A875**
	S	11 lpm	¼"-18	H2-62	**31A853**	—	—
	S	11 lpm	¼"-18	H2-63	**31A887**	—	—
⅜ in	B	23 lpm	⅜"-18	BH3-61	**31A881**	BH3-60	**31A847**
	303	23 lpm	⅜"-18	SH3-63	**31A901**	SH3-62	**31A866**
	S	23 lpm	⅜"-18	H3-62	**31A855**	—	—
	S	23 lpm	⅜"-18	H3-63	**31A889**	—	—
½ in	316	45 lpm	½"-14	SSH4-63Y	**31A911**	SSH4-62Y	**31A876**
	S	45 lpm	½"-14	H4-63	**31A891**	H4-62	**31A857**
	B	45 lpm	½"-14	BH4-61	**31A882**	BH4-60	**31A848**
	303	45 lpm	½"-14	SH4-63	**31A903**	SH4-62	**31A868**
¾ in	B	106 lpm	¾"-14	BH6-61	**31A883**	BH6-60	**31A849**
	S	106 lpm	¾"-14	H6-63	**31A893**	H6-62	**31A859**
	303	106 lpm	¾"-14	SH6-63	**31A905**	SH6-62	**31A870**
	316	106 lpm	¾"-14	SSH6-62Y	**31A877**	—	—
	316	106 lpm	¾"-14	SSH6-63Y	**31A912**	—	—
1 in	B	189 lpm	1"-11-1/2	BH8-61	**31A884**	BH8-60	**31A850**
	S	189 lpm	1"-11-1/2	H8-63	**31A895**	H8-62	**31A861**
	303	189 lpm	1"-11-1/2	SH8-63	**31A907**	SH8-62	**31A872**
	316	189 lpm	1"-11-1/2	SSH8-63Y	**31A913**	SSH8-62Y	**31A878**
60, Female ORB, ISO 7241-1 Series B							
⅛ in	S	3 lpm	7/16"-20	H1-63-T4	**31A886**	H1-62-T4	**31A852**
¼ in	S	11 lpm	9/16"-18	H2-63-T6	**31A888**	H2-62-T6	**31A854**
	303	11 lpm	9/16"-18	SH2-63-T6	**31A899**	SH2-62-T6	**31A865**
⅜ in	303	23 lpm	¾"-16	SH3-63-T8	**31A902**	SH3-62-T8	**31A867**
½ in	303	45 lpm	⅞"-14	SH4-63-T10	**31A904**	SH4-62-T10	**31A869**
¾ in	S	23 lpm	¾"-14	—	—	H3-62-T8	**31A856**
	S	23 lpm	¾"-16	H3-63-T8	**31A890**	—	—
	S	106 lpm	1-1/16"-12	H6-63-T12	**31A894**	H6-62-T12	**31A860**
	303	106 lpm	1-1/16"-12	SH6-63-T12	**31A906**	SH6-62-T12	**31A871**
⅞ in	S	45 lpm	⅞"-14	H4-63-T10	**31A892**	H4-62-T10	**31A858**
1 in	S	189 lpm	1-5/16"-12	H8-63-T16	**31A896**	H8-62-T16	**31A862**
	303	189 lpm	1-5/16"-12	SH8-63-T16	**31A908**	SH8-62-T16	**31A873**
6600, Female NPTF, ISO 7241-1 Series A							
¼ in	S	11.36 lpm	⅛"-27	6602-2-4	**31A835**	6601-2-4	**31A824**
	S	11.36 lpm	¼"-18	6602-4-4	**31A836**	6601-4-4	**31A825**
⅜ in	S	22.71 lpm	⅜"-18	6602-6-6	**31A837**	6601-6-6	**31A826**
½ in	S	45.42 lpm	¾"-14	6602-12-10	**31A832**	6601-12-10	**31A821**
	S	45.42 lpm	½"-14	6602-8-10	**31A838**	6601-8-10	**31A827**
¾ in	S	105.99 lpm	¾"-14	—	—	6601-12-12	**31A822**
	S	106 lpm	¾"-14	6602-12-12	**31A833**	—	—
1 in	S	189.27 lpm	1"-11-1/2	6602-16-16	**31A834**	6601-16-16	**31A823**
6600, ORB, ISO 7241-1 Series A							
⅜ in	S	22.71 lpm	9/16"-18	6610-6-6	**31A843**	6608-6-6	**31A830**
½ in	S	45.42 lpm	⅞"-14	6610-10-10	**31A839**	6608-10-10	**31A828**
	S	45.42 lpm	1-1/16"-12	6610-12-10	**31A840**	6608-12-10	**31A829**
	S	45.42 lpm	¾"-16	6610-8-10	**31A844**	6608-8-10	**31A831**
¾ in	S	106 lpm	1-1/16"-12	6610-12-12	**31A841**	—	—
1 in	S	189.3 lpm	1-5/16"-12	6610-16-16	**31A842**	—	—

Coupling Size	Body Material*	Max. Flow Rate	Thread Size	COUPLER NIPPLE Mfr. Model	COUPLER NIPPLE Item No.	COUPLER BODY Mfr. Model	COUPLER BODY Item No.
8010, Female ORB							
½ in	S	45.42 lpm	¾"-14	8010-15	**31A944**	—	—
	S	45.42 lpm	¾"-14	8010-15P	**31A945**	—	—
	S	45.42 lpm	⅞"-14	8010-16	**31A946**	—	—
	S	45.42 lpm	⅞"-14	8010-16P	**31A947**	—	—
8010, NPTF							
½ in	S	45.42 lpm	½"-14	8010-4	**31A948**	—	—
	S	45.42 lpm	½"-14	8010-4P	**31A949**	—	—
	S	45.42 lpm	¾"-14	8010-5	**31A950**	—	—
	S	45.42 lpm	¾"-14	8010-5P	**31A951**	—	—
FEM, Female NPSF, Flush Face, ISO 16028							
¼ in	S	11.36 lpm	¼"-18	FEM-252-4FP	**31A811**	FEM-251-4FP-NL	**31A798**
⅜ in	S	22.71 lpm	⅜"-18	FEM-372-6FP	**31A813**	FEM-371-6FP-NL	**31A801**
½ in	S	45.42 lpm	½"-14	FEM-502-8FP	**31A818**	FEM-501-8FP-NL	**31A807**
¾ in	S	98.42 lpm	¾"-14	FEM-752-12FP	**31A820**	FEM-751-12FP-NL	**31A810**
FEM, FSAE, Flush Face, ISO 16028							
½ in	S	45.42 lpm	1-1/16"-12	FEM-502-12FO	**31A816**	FEM-501-12FO-NL	**31A805**
9/16 in	S	11.36 lpm	9/16"-18	FEM-252-6FO	**31A812**	FEM-251-6FO-NL	**31A799**
⅝ in	S	75.71 lpm	1-1/16"-12	—	—	FEM-621-12FO-NL	**31A808**
¾ in	S	22.71 lpm	¾"-16	FEM-372-8FO	**31A814**	FEM-371-8FO-NL	**31A802**
	S	45.42 lpm	¾"-16	FEM-502-8FO	**31A817**	FEM-501-8FO-NL	**31A806**
	S	98.42 lpm	1-1/16"-12	FEM-752-12FO	**31A819**	FEM-751-12FO-NL	**31A809**
⅞ in	S	45.42 lpm	⅞"-14	FEM-502-10FO	**31A815**	FEM-501-10BMF-NL	**31A803**
	S	45.42 lpm	⅞"-14	—	—	FEM-501-10FO-NL	**31A804**
FF, FNPT, Flush Face							
⅜ in	S	22.71 lpm	⅜"-18	FF-372-6FP	**31A795**	FF-371-6FP	**31A792**
	S	22.71 lpm	½"-14	FF-372-8FP	**31A797**	FF-371-8FP	**31A794**
FF, FSAE, Flush Face							
⅜ in	S	22.71 lpm	¾"-16	FF-372-8FO	**31A796**	FF-371-8FO	**31A793**
ST, FNPT Straight Thru							
⅛ in	B	11.36 lpm	⅛"-27	BST-N1	**31A976**	BST-1	**31A952**
	303	11.36 lpm	⅛"-27	SST-N1	**31A988**	SST-1	**31A964**
	303	11.36 lpm	⅛"-27	SST-N1M	**31A989**	—	—
	B	11.36 lpm	⅛"-27	—	—	BST-1M	**31A953**
¼ in	B	22.71 lpm	¼"-18	BST-N2	**31A978**	BST-2	**31A954**
	303	22.71 lpm	¼"-18	SST-N2	**31A990**	SST-2	**31A966**
	B	22.71 lpm	¼"-18	—	—	BST-2M	**31A955**
⅜ in	B	45.42 lpm	⅜"-18	BST-N3	**31A980**	BST-3	**31A956**
	B	45.42 lpm	⅜"-18	—	—	BST-3M	**31A957**
	303	45.43 lpm	⅜"-18	SST-N3	**31A992**	SST-3	**31A968**
½ in	B	45.42 lpm	½"-14	BST-N4	**31A982**	BST-4	**31A958**
	B	45.42 lpm	½"-14	—	—	BST-4M	**31A959**
	303	45.43 lpm	½"-14	SST-N4	**31A994**	SST-4	**31A970**
¾ in	303	105.99 lpm	¾"-14	SST-N6	**31A996**	SST-6	**31A972**
	303	105.99 lpm	¾"-14	—	—	SST-6M	**31A973**
	B	106 lpm	¾"-14	BST-N6	**31A984**	BST-6	**31A960**
	B	106 lpm	¾"-14	—	—	BST-6M	**31A961**
1 in	303	189.27 lpm	1"-11-1/2	SST-N8	**31A998**	SST-8	**31A974**
	B	189.3 lpm	1"-11-1/2	BST-N8M	**31A987**	BST-8	**31A962**
	B	189.3 lpm	1"-11-1/2	BST-N8	**31A986**	—	—
ST, MNPT							
⅛ in	B	11.36 lpm	⅛"-27	BST-N1M	**31A977**	—	—
	303	11.36 lpm	⅛"-27	—	—	SST-1M	**31A965**
¼ in	B	22.71 lpm	¼"-18	BST-N2M	**31A979**	—	—
	303	22.71 lpm	¼"-18	SST-N2M	**31A991**	SST-2M	**31A967**
⅜ in	B	45.42 lpm	⅜"-18	BST-N3M	**31A981**	—	—
	303	45.43 lpm	⅜"-18	SST-N3M	**31A993**	SST-3M	**31A969**
½ in	B	45.42 lpm	½"-14	BST-N4M	**31A983**	—	—
	303	45.43 lpm	½"-14	SST-N4M	**31A995**	SST-4M	**31A971**
¾ in	303	105.99 lpm	¾"-14	SST-N6M	**31A997**	—	—
	B	106 lpm	¾"-14	BST-N6M	**31A985**	—	—
1 in	303	189.27 lpm	1"-11-1/2	SST-N8M	**31A999**	SST-8M	**31A975**
	B	189.3 lpm	1"-11-1/2	—	—	BST-8M	**31A963**

Description	PLUGS Mfr. Model	PLUGS Item No.	CAPS Mfr. Model	CAPS Item No.
Parker 60 Series Dust Plugs & Caps				
⅛ in	H1-65M	**31A920**	H1-66M	**31A914**
¼ in	H2-65M	**31A921**	H2-66M	**31A915**
⅜ in	H3-65M	**31A922**	H3-66M	**31A916**
½ in	H4-65M	**31A923**	H4-66M	**31A917**
¾ in	H6-65M	**31A924**	H6-66M	**31A918**
1 in	H8-65M	**31A925**	H8-66M	**31A919**

** B = Brass, 303 = 303 Stainless Steel, 316 = 316 Stainless Steel, S = Steel.*

Coupling Size	Body Material	Max. Flow Rate	Thread Size	Coupler (Body) Coupler Flow Rate	Coupler (Body) Mfr. Model	Coupler (Body) Item No.	Coupler Plug (Nipple) Coupler Flow Rate	Coupler Plug (Nipple) Mfr. Model	Coupler Plug (Nipple) Item No.
71 Series, Flush Face									
FNPT									
¼"	316 SS	18.93 lpm	¼"-18	5.0 gpm	S71-3C4-4FV	**20LH22**	5.0 gpm	S71-3N4-4FV	**20LH41**
	High Pressure SS	18.93 lpm	¼"-18	5.0 gpm	SH71-3C4-4FV	**20LG01**	5.0 gpm	SH71-3N4-4FV	**20LG10**
	Steel	18.93 lpm	¼"-18	5.0 gpm	71-3C4-4F	**20LJ60**	5.0 gpm	71-3N4-4F	**20LJ83**
⅜"	316 SS	45.42 lpm	⅜"-18	12.0 gpm	S71-3C6-6F	**20LH25**	12.0 gpm	S71-3N6-6F	**20LH44**
	High Pressure SS	45.42 lpm	⅜"-18	12.0 gpm	SH71-3C6-6FV	**20LG04**	12.0 gpm	SH71-3N6-6FV	**20LG13**
	Steel	45.42 lpm	⅜"-18	12.0 gpm	71-3C6-6F	**20LJ64**	12.0 gpm	71-3N6-6F	**20LJ87**
½"	316 SS	75.7 lpm	½"-14	20.0 gpm	S71-3C8-8FV	**20LH29**	20.0 gpm	S71-3N8-8FV	**20LH49**
	Steel	75.71 lpm	½"-14	20.0 gpm	71-3C8-8F	**20LJ70**	20.0 gpm	71-3N8-8F	**20LJ92**
¾"	316 SS	151.4 lpm	¾"-14	40.0 gpm	S71-3C12-12FV	**20LH13**	40.0 gpm	S71-3N12-12FV	**20LH33**
	High Pressure SS	151.42 lpm	¾"-14	40.0 gpm	SH71-3C12-12F	**20LF97**	—	SH71-3N12-12F	**20LG06**
	Steel	151.4 lpm	¾"-14	40.0 gpm	71-3C12-12F	**20LJ51**	40.0 gpm	71-3N12-12F	**20LJ74**
1"	316 SS	227.1 lpm	1"-11-1/2	60.0 gpm	S71-3C16-16FV	**20LH17**	60.0 gpm	S71-3N16-16F	**20LH36**
	316 SS	227.1 lpm	1¼"-11-1/2	60.0 gpm	S71-3C16-20F	**20LH19**	—	—	—
	High Pressure SS	227.12 lpm	1"-11-1/2	60.0 gpm	SH71-3C16-16F	**20LF98**	60.0 gpm	SH71-3N16-16F	**20LG07**
	Steel	227.1 lpm	1"-11-1/2	60.0 gpm	71-3C16-16F	**20LJ55**	60.0 gpm	71-3N16-16F	**20LJ78**
	Steel	227.1 lpm	1¼"-11-1/2	60.0 gpm	71-3C16-20F	**20LJ58**	60.0 gpm	71-3N16-20F	**20LJ81**
EA Series, Poppet									
¼"	316 SS	14.38 lpm	¼"-18	3.8 gpm	SPEAC4-4F	**20LG17**	3.8 gpm	SVEAN4-4F	**20LG55**
	316 SS	14.38 lpm	¼"-18	3.8 gpm	SVEAC4-4F	**20LG48**	—	—	—
	316 SS	53 lpm	¼"-18	—	—	—	14.0 gpm	SPEAN4-4F	**20LG19**
	Steel	14.38 lpm	¼"-18	3.8 gpm	VEAC4-4F	**20LH52**	—	—	—
	Steel	94.64 lpm	¼"-18	—	—	—	3.8 gpm	VEAN4-4F	**20LH64**
⅜"	Brass	27.252 lpm	⅜"-18	7.2 gpm	BVEAC6-6F	**20LF06**	—	—	—
	Brass	102.2 lpm	⅜"-18	—	—	—	27.0 gpm	BVEAN6-6F	**20LF11**
	Steel	18.925 lpm	⅜"-18	5.0 gpm	VEAC6-6F	**20LH56**	—	—	—
	Steel	94.64 lpm	⅜"-18	—	—	—	5.0 gpm	VEAN6-6F	**20LH67**
½"	Brass	14.38 lpm	½"-14	—	BVEAC8-8F	**20LF08**	—	—	—
	Brass	264.95 lpm	½"-14	—	—	—	70.0 gpm	BVEAN8-8F	**20LF13**
	Steel	52.99 lpm	½"-14	14.0 gpm	VEAC8-8F	**20LH59**	—	—	—
	Steel	53 lpm	½"-14	—	—	—	14.0 gpm	VEAN8-8F	**20LH70**
¾"	Brass	14.38 lpm	¾"-14	—	—	—	3.8 gpm	BVEAN12-12F	**20LF09**
	Brass	208.23 lpm	¾"-14	—	BVEAC12-12F	**20LF04**	—	—	—
	Steel	94.64 lpm	¾"-14	25.0 gpm	VEAC12-12F	**20LH50**	25.0 gpm	VEAN12-12F	**20LH62**
H Series, Poppet									
¼"	316 SS	14.38 lpm	¼"-18	3.8 gpm	SVHC4-4F	**20LG73**	3.8 gpm	SVHN4-4F	**20LG98**
	316 SS	14.38 lpm	¼"-18	3.8 gpm	SVHC4-4FV	**20LG74**	3.8 gpm	SVHN4-4FV	**20LG99**
	Brass	132.48 lpm	¼"-18	35.0 gpm	BVHC4-4F	**20LF24**	—	—	—
	Brass	264.95 lpm	¼"-18	—	—	—	70.0 gpm	BVHN4-4F	**20LF44**
	Steel	14.38 lpm	¼"-18	—	—	—	3.8 gpm	VHN4-4F	**20LJ22**
	Steel	14.384 lpm	¼"-18	3.8 gpm	VHC4-4F	**20LH89**	—	—	—
⅜"	316 SS	18.93 lpm	⅜"-18	5.0 gpm	SVHC6-6FV	**20LG78**	—	—	—
	Brass	49.21 lpm	⅜"-18	—	—	—	13.0 gpm	BVHN6-6F	**20LF48**
	Brass	272.52 lpm	⅜"-18	72.0 gpm	BVHC6-6F	**20LF28**	—	—	—
	Steel	18.93 lpm	⅜"-18	5.0 gpm	VHC6-6F	**20LH95**	5.0 gpm	VHN6-6F	**20LJ27**
½"	316 SS	53 lpm	½"-14	14.0 gpm	SVHC8-8FV	**20LG82**	14.0 gpm	SVHN8-8FV	**20LH08**
	Brass	132.48 lpm	½"-14	35.0 gpm	BVHC8-8F	**20LF31**	—	—	—
	Brass	151.4 lpm	½"-14	—	—	—	40.0 gpm	BVHN8-8F	**20LF51**
	Steel	52.99 lpm	½"-14	14.0 gpm	VHC8-8F	**20LJ04**	—	—	—
	Steel	53 lpm	½"-14	—	—	—	14.0 gpm	VHN8-8F	**20LJ33**
¾"	316 SS	94.625 lpm	¾"-14	25.0 gpm	SVHC12-12FV	**20LG61**	—	—	—
	316 SS	95 lpm	¾"-14	—	—	—	25.0 gpm	SVHN12-12FV	**20LG86**
	Brass	94.63 lpm	¾"-14	—	—	—	25.0 gpm	BVHN12-12F	**20LF35**
	Brass	681.3 lpm	¾"-14	180.0 gpm	BVHC12-12F	**20LF15**	—	—	—
	Steel	94.63 lpm	¾"-14	25.0 gpm	VHC12-12F	**20LH76**	—	—	—
	Steel	94.64 lpm	¾"-14	—	—	—	25.0 gpm	VHN12-12F	**20LJ09**
1"	316 SS	132.475 lpm	1"-11-1/2	35.0 gpm	SVHC16-16FV	**20LG64**	—	—	—
	316 SS	132.5 lpm	1"-11-1/2	—	—	—	—	SVHN16-16FV	**20LG89**
	Brass	14.38 lpm	1"-11-1/2	3.8 gpm	BVHC16-16F	**20LF18**	—	—	—
	Brass	49.21 lpm	1"-11-1/2	—	—	—	13.0 gpm	BVHN16-16F	**20LF38**
	Steel	132.48 lpm	1 5/16"-12	—	—	—	35.0 gpm	VHN16-16F	**20LJ14**
	Steel	132.49 lpm	1"-11-1/2	35.0 gpm	VHC16-16F	**20LH80**	—	—	—
1¼"	316 SS	208.2 lpm	1¼"-11-1/2	55.0 gpm	SVHC20-20FV	**20LG67**	—	—	—
	Brass	18.93 lpm	1¼"-11-1/2	5.0 gpm	BVHC20-20F	**20LF21**	—	—	—
	Brass	102.2 lpm	1¼"-11-1/2	—	—	—	27.0 gpm	BVHN20-20F	**20LF41**
	Steel	208 lpm	1¼"-11-1/2	55.0 gpm	VHC20-20F	**20LH83**	55.0 gpm	VHN20-20F	**20LJ18**
1½"	316 SS	272.52 lpm	1½"-11-1/2	72.0 gpm	SVHC24-24FV	**20LG69**	—	—	—
	316 SS	272.55 lpm	1½"-11-1/2	—	—	—	72.0 gpm	SVHN24-24FV	**20LG95**
	Brass	18.93 lpm	1½"-11-1/2	5.0 gpm	BVHC24-24F	**20LF22**	—	—	—
	Brass	151.4 lpm	1½"-11-1/2	—	—	—	40.0 gpm	BVHN24-24F	**20LF42**
	Steel	272.5 lpm	1½"-11-1/2	72.0 gpm	VHC24-24F	**20LH84**	—	—	—
2"	316 SS	681.3 lpm	2"-11-1/2	180.0 gpm	SVHC32-32FV	**20LG71**	—	—	—
	316 SS	681.37 lpm	2"-11-1/2	—	—	—	180.0 gpm	SVHN32-32F	**20LG96**
	Brass	94.63 lpm	2"-11-1/2	25.0 gpm	BVHC32-32F	**20LF23**	—	—	—
	Brass	151.4 lpm	2"-11-1/2	—	—	—	40.0 gpm	BVHN32-32F	**20LF43**
	Steel	681.3 lpm	2"-11-1/2	180.0 gpm	VHC32-32F	**20LH85**	—	—	—
FSAE									
¼"	Steel	14.384 lpm	7/16"-20	3.8 gpm	VHC4-4EF	**20LH87**	—	—	—
⅜"	Steel	18.93 lpm	9/16"-18	5.0 gpm	VHC6-6EF	**20LH93**	—	—	—
½"	Steel	52.99 lpm	¾"-16	14.0 gpm	VHC8-8EF	**20LJ01**	—	—	—
	Steel	53 lpm	¾"-16	—	—	—	14.0 gpm	VHN8-8EF	**20LJ31**
¾"	Steel	94.64 lpm	1 1/16"-12	—	—	—	25.0 gpm	VHN12-12EF	**20LJ07**
1"	Steel	132.48 lpm	¾"-14	—	—	—	35.0 gpm	VHN16-16EF	**20LJ13**
	Steel	132.49 lpm	1"-5/16-12	35.0 gpm	VHC16-16EF	**20LH79**	—	—	—
Snap-Tite H Series, Poppet									
FNPT									
⅜"	316 SS	18.925 lpm	⅜"-18	—	—	—	5.0 gpm	SVHN6-6FV	**20LH05**
1¼"	316 SS	208.175 lpm	1¼"-11-1/2	—	—	—	55.0 gpm	SVHN20-20FV	**20LG92**
1½"	Steel	272.52 lpm	1½"-11-1/2	—	—	—	72.0 gpm	VHN24-24F	**20LJ19**
2"	Steel	681.3 lpm	2"-11-1/2	—	—	—	180.0 gpm	VHN32-32F	**20LJ20**
Straight Through H Series									
¼"	Steel	14.38 lpm	¼"-18	3.8 gpm	PHC4-4F	**20LF75**	3.8 gpm	PHN4-4F	**20LF91**
⅜"	Steel	27.25 lpm	⅜"-18	7.2 gpm	PHC6-6F	**20LF77**	7.2 gpm	PHN6-6F	**20LF93**
½"	Steel	53 lpm	½"-14	14.0 gpm	PHC8-8F	**20LF79**	14.0 gpm	PHN8-8F	**20LF95**
¾"	Steel	102.2 lpm	¾"-14	—	—	—	27.0 gpm	PHN12-12F	**20LF81**
	Steel	908.4 lpm	¾"-14	240.0 gpm	PHC12-12F	**20LF68**	—	—	—
1"	Steel	14.38 lpm	1"-11-1/2	3.8 gpm	PHC16-16F	**20LF69**	—	—	—
	Steel	151.4 lpm	1"-11-1/2	—	—	—	40.0 gpm	PHN16-16F	**20LF83**
1¼"	Steel	14.38 lpm	1¼"-11-1/2	3.8 gpm	PHC20-20F	**20LF71**	—	—	—
	Steel	265 lpm	1¼"-11-1/2	—	—	—	70.0 gpm	PHN20-20F	**20LF85**
1½"	Steel	14.38 lpm	1½"-11-1/2	3.8 gpm	PHC24-24F	**20LF72**	—	—	—
	Steel	416.4 lpm	1½"-11-1/2	—	—	—	110.0 gpm	PHN24-24F	**20LF86**
2"	Steel	908.5 lpm	2"-11-1/2	240.0 gpm	PHC32-32F	**20LF74**	240.0 gpm	PHN32-32F	**20LF87**

20LF97

20LG06

20LF04

20LH64

20LH79

20LJ07

20LF68

20LF81

Parker

Snap-tite Couplers and Plugs

Innovative, high-pressure components suitable for use with oil and gas. For additional sizes, go to Grainger.com®.

71 Series—Feature superior flow and low pressure drop.

EA Series—Design allows clean linear flow for low pressure drop.

H Series—For use where single or double shut-off valving is required.

Straight Through H Series—For use when no valving is required.

Size	CAPS Mfr. Model	CAPS Item No.	PLUGS Mfr. Model	PLUGS Item No.
71 Series Plastic Dust Caps & Plugs				
¼"	71-3PNC-4	**20LK02**	71-3PCC-4	**20LJ96**
⅜"	71-3PNC-6	**20LK03**	71-3PCC-6	**20LJ97**
½"	71-3PNC-8	**20LK04**	71-3PCC-8	**20LJ98**
¾"	71-3PNC-12	**20LJ99**	71-3PCC-12	**20LJ94**
1"	71-3PNC-16	**20LK01**	71-3PCC-16	**20LJ95**
H & PH Series Plastic Dust Caps & Plugs				
¼"	PDC-4	**20LF55**	PDP-4	**20LF58**
⅜"	PDC-6	**20LF56**	PDP-6	**20LF59**
½"	PDC-8	**20LF57**	PDP-8	**20LF60**

**** SS = Stainless Steel, HP = High Pressure.***

Parker

Fluid Analysis Test

Helps prevent major hydraulic or lube oil system failures. Collect a small amount of fluid and use the included mailing labels to send sample to the lab. A full report will be returned.

Provides	Item No.
Particle Count, Photomicrograph, Free Water, Spectrometric, Viscosity, Water (ppm), and Neutralization Analysis	**4VA89**

Portable Oil Filtration Systems

1XPW9

Handheld System—Lightweight system features 115VAC, auxiliary ports, and fluorocarbon seals. Includes 10-micron cellulose filter element and 2 clear, 5-ft. hose assemblies with wand attachments. Max. operating pressure: 50 psi. 25 psi differential pressure indicator.

- Temp. range: -15° to 120°F

Cart Systems—Ideal in pre-filtering and transferring fluids into reservoirs or cleaning up existing systems. Filter cart processes fluid through a primary 40-micron synthetic element, then a secondary 10-micron cellulose or Microglass element. Includes 2 hoses with wands.

- Max. temp.: 150°F

Description	Max. Flow (gpm)	Max. Fluid Viscosity	Mfr. Model	Item No.
Handheld System				
Portable Filtration System	—	16,000 SUS	GT410C	**6F582**
Double-Length Cart				
Hydraulic Oil Filter Cart	—	3,000 SUS	5MFP240SA10QB16151	**5CJF7**
	10	500 SUS	10MFP240SA10QB16151	**1XPW9**

Description	Micron Rating	Max. Flow	Mfr. Model	Item No.
Replacement Filter Elements				
Double-Length Cart				
Microglass	2	10 gpm	937397Q	**1XPX2**
	5	10 gpm	937398Q	**1XPX3**
	10	10 gpm	937399Q	**1XPX1**
	20	10 gpm	937400Q	**1XPX4**
Synthetic	40	10 gpm	940802	**1XPX5**
Water Removal	Water Removal	10 gpm	940734	**1XPX6**
Woven Wire	40	10 gpm	940803	**1XPX7**
Handheld Filtration System				
Cellulose, Pkg. Qty. 2	10	4 gpm	932016	**6F584**
	20	4 gpm	932020	**6F590**
Copolymer, Pkg. Qty. 2	20	4 gpm	932019	**6F586**
Microglass III, Pkg. Qty. 2	5	4 gpm	932018Q	**6F591**
	10	4 gpm	932017Q	**6F585**
Single-Length Cart				
Cellulose	10	10 gpm	924450	**1R441**
Copolymer	20	10 gpm	927584	**4ZC80**
Microglass III	10	10 gpm	924453Q	**4ZC79**
Polyester	40	10 gpm	924448	**1R440**
Oil				
2.5 gal., 0° to 158°F			942180	**29TK17**
Handheld System Accessory				
Molded Plastic Carrying Case			601727	**6F583**

Hydraulic Pressure Filters

5Z279

5Z282

- Corrosion-resistant, anodized aluminum construction

Choose single length or extend element life with double length filters. Include 10-micron element and indicator with built-in 50 psi bypass valve.

For Use With	Filter Media	Microns	Mfr. Model	Item No.
Replacement Elements				
Single				
4VA83, 5Z279	Microglass III	10	925580Q	**5W353**
4VA83, 5Z279	Reusable SS wire	25	925574	**5W378**
5Z281	Cellulose	10	922624	**5W720**
4VA85	Microglass III	10	932651Q	**4VA87**
5Z281	Microglass III	10	932624Q	**5W721**
Double				
5Z282	Cellulose	10	925835	**5W722**
5Z282	Microglass III	10	932630Q	**5W723**
4VA86	Microglass III	10	932655Q	**4VA88**

Nom. Flow (gpm)	Size	HOUSING TYPE Single Length Mfr. Model	Item No.	Double Length Mfr. Model	Item No.
Max. Pressure (psi) 1000, Max. Fatigue Pressure Rating (psi) 800					
20	SAE 12	15CN110QM250M4M41	**4VA83**	—	—
20	1 1/16"-12 SAE 12	—	—	15CN210QM250M4M41	**4VA84**
50	1" SAE 16	40CN110QM250N4N41	**4VA85**	40CN210QM250N4N41	**4VA86**
Max. Pressure (psi) 3000, Max. Fatigue Pressure Rating (psi) 2000					
20	¾" SAE 12	15P110QBM2KS121	**5Z279**	15P210QBM2KS121	**5Z280**
50	1" SAE 16	30P110QBM2KS161	**5Z281**	30P210QBM2KS161	**5Z282**

1XPG8

52YT78

Interchangeable Hydraulic Filter Elements

- Fully bonded construction
- Corrosion-resistant end caps

Note: Additional Interchangeable Hydraulic Filter Elements available on Grainger.com®.

Pall Interchange	PARKER Microns	Mfr. Model	Item No.	SCHROEDER Microns	Mfr. Model	Item No.
Pall Interchange Filters						
HC7400FKN4H	10	935164	**1XPT4**	3	SBF-7400-4Z3B	**52YT79**
HC7400FKN8H	5	935168	**1XPW4**	5	SBF-7400-8Z5B	**52YT33**
HC7500SKN8H	—	—	—	5	SBF-7500-8Z5B	**52YT06**
HC8200FKN8H	5	932266Q	**1XPV8**	5	SBF-8200-8Z5B	**52YT54**
HC8300/8310FKT16H	20	933047Q	**1XPR1**	—	—	—
HC8300/8310FKT16Z	—	—	—	25	SBF-8300-16Z25V	**52YT24**
HC8300/8310FKT39H	20	932875Q	**1XPR9**	—	—	—
HC8300/8310FKT39Z	—	—	—	25	SBF-8300-39Z25V	**52YT29**
HC8900FKT13H	20	933205Q	**1XPK1**	25	SBF-8900-13Z25B	**52YR87**
HC8900FKT16H	20	933213Q	**1XPN1**	25	SBF-8900-16Z25B	**52YT05**
HC9020FKN4H	5	933239Q	**1XPJ3**	5	SBF-9020-4Z5B	**52YR81**
HC9020FKP4H	2	925582Q	**1XPH8**	3	SBF-9020-4Z3B	**52YR77**
HC9020FKP8H	2	925602Q	**1XPJ4**	3	SBF-9020-8Z3B	**52YR82**
HC9020FKS4H	10	932612Q	**1XPG8**	10	SBF-9020-4Z10B	**52YT78**
HC9020FKS8H	10	932618Q	**1XPH1**	10	SBF-9020-8Z10B	**52YR70**
HC9020FKT4H	20	930369Q	**1XPH5**	25	SBF-9020-4Z25B	**52YR74**
HC9020FKT8H	20	930370Q	**1XPJ6**	25	SBF-9020-8Z25B	**52YR83**
HC9021FDP4H	2	927725Q	**1XPN5**	3	SBF-9021-4Z3B	**52YT09**
HC9021FDP8H	2	927723Q	**1XPK8**	3	SBF-9021-8Z3B	**52YR93**
HC9600FKN13H	5	926845Q	**1XPP5**	5	SBF-9600-13Z5B	**52YT18**
HC9600FKN4H	5	926841Q	**1XPJ7**	5	SBF-9600-4Z5B	**52YR84**
HC9600FKN8H	5	926843Q	**1XPH9**	5	SBF-9600-8Z5B	**52YR78**
HC9600FKP8H	2	926697Q	**1XPG9**	3	SBF-9600-8Z3B	**52YR69**
HC9600FKS13H	10	926839Q	**1XPN4**	10	SBF-9600-13Z10B	**52YT08**
HC9600FKS4H	10	926835Q	**1XPH6**	10	SBF-9600-4Z10B	**52YR75**
HC9600FKT13H	20	930162Q	**1XPT9**	25	SBF-9600-13Z25B	**52YT37**
HC9600FKT4H	20	930099Q	**1XPJ9**	25	SBF-9600-4Z25B	**52YR86**
HC9600FKT8H	20	930118Q	**1XPH2**	25	SBF-9600-8Z25B	**52YR71**
HC9601FDP8H	2	927176Q	**1XPL4**	3	SBF-9601-8Z3B	**52YR98**
HC9601FDT8H	20	927175Q	**1XPR4**	25	SBF-9601-8Z25B	**52YT25**
HC9650FKN8H	5	926988Q	**1XPU5**	5	SBF-9650-8Z5B	**52YT42**
HC9700FKP9H	—	—	—	3	KZ3	**52YR80**
HC9700FKS9H	—	—	—	10	KZ10	**52YR72**
HC9700FKS9H	—	—	—	10	K10	**52YT64**
HC9701FKS9H	—	—	—	10	KZX10	**52YR85**
HC9800FKN4H	5	930197Q	**1XPV2**	5	SBF-9800-4Z5B	**52YT48**
HC9800FKT8H	20	930194Q	**1XPK2**	25	SBF-9800-8Z25B	**52YR88**
HC9801FDP4H	2	935191	**1XPL1**	3	SBF-9801-4Z3B	**52YR95**
HC9801FDP8H	2	935193	**1XPL5**	3	SBF-9801-8Z3B	**52YR99**

Hydac Interchange	PARKER Microns	Mfr. Model	Item No.	SCHROEDER Microns	Mfr. Model	Item No.
Hydac Interchange Filters						
	10	PR3033Q	**1XPP2**	—	—	—
0110D010BN4HC	10	PR3087Q	**1XPU8**	10	SBF-0110D-Z10B	**52YT45**
0110D020BN4HC	20	PR3088Q	**1XPL3**	25	SBF-0110D-Z25B	**52YR97**
0240D003BN4HC	3	PR3143Q	**1XPU2**	3	SBF-0240D-Z3B	**52YT39**
0240D010BN4HC	10	PR3145Q	**1XPT7**	10	SBF-0240D-Z10B	**52YT35**
0330D010BN4HC	10	PR3174Q	**1XPW6**	10	SBF-0330D-Z10B	**52YT59**
0330R010BN4HC	10	938283Q	**1XPW1**	10	SBF-0330R-Z10B	**52YT56**
0660D010BN4HC	10	PR3203Q	**1XPU9**	10	SBF-0660D-Z10B	**52YT46**
0030D010BN4HC	—	—	—	10	SBF-0030D-Z10B	**52YT15**

4Z620

Hydraulic Return Line Spin-On Filters

- Max. pressure: 150 psi
- Max. temp.: 225°F
- Cast-aluminum head
- 15 psi bypass spring

Microglass filter has higher dirt-holding capacity for longer usable filter life. Elements are interchangeable with major brands size: 1-12 thread for 20 gpm, 1½-16 thread for 50 gpm models. Dual Buna N seals resist leaks up to 150 psi.

Head has ⅛" (F)NPT port with optional Gauge/ Indicator 2C492 sold separately.

1R412

Max. Flow (gpm)	Filter Rating (microns)	Filter Media	Inlet/ Outlet Threading NPT (in.)	Element Threading Size	COMPLETE FILTERS Mfr. Model	Item No.	REPLACEMENT ELEMENTS Mfr. Model	Item No.
20	3	Cellulose	¾	1-12"	12AT03CN15BBH	**4ZC86**	926543	**4ZC81**
	10	Cellulose	¾	1-12"	12AT10CN15BBH	**4Z618**	921999	**1R412**
	10	Microglass	¾	1-12"	12AT10BN15BBH	**4ZC87**	928763	**4ZC82**
	20	Microglass	¾	1-12"	12AT20BN15BBH	**4ZC88**	928764	**4ZC83**
	25	Cellulose	¾	1-12"	12AT25CN15BBH	**4Z619**	925023	**1R413**
50	3	Cellulose	1¼	1 ½-16"	50AT03CN15DDH	**4ZC91**	926541	**5W285**
	10	Cellulose	1¼	1 ½-16"	50AT10CN15BBH	**4Z620**	926169	**1R414**
	10	Microglass	1¼	1 ½-16"	50AT10BN15DDH	**4ZC89**	928766	**4ZC84**
	20	Microglass	1¼	1 ½-16"	50AT20BN15DDH	**4ZC90**	928767	**4ZC85**
	25	Cellulose	1¼	1 ½-16"	50AT25CN15BBH	**4Z621**	926170	**1R415**

AC Motor Driven Forced Air Oil Coolers

AKG®

- Brazed aluminum with black painted finish
- Max. temp.: 250°F
- Mounting feet included

Cool-Line A Series oil coolers offer maximum cooling effectiveness with minimum pressure drop. Aluminum bar/plate cooler construction is 30% to 50% smaller than copper tube/aluminum fin oil coolers for same heat transfer performance. Hollow profile design reduces local peak strains for a significant increase in cooler service life. Performance is based on oil entering cooler 50°F higher than ambient air temperature. For Replacement Motors, call 1-800-GRAINGER (472-4643). On Grainger.com, search by Grainger Item Number and click Optional Accessories.

Flow Ranges (gpm)	Inlet Port Thread Size	HP	Full Load Amps	Motor Frame Size	Max. Pressure	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
115/230V AC Volts										
2 to 30	SAE #12	0.25 hp	5.4/2.7	56C	377 psi	13.74 in	13.78 in	12.56 in	AL5-1	**4UHZ4**
	SAE #12	0.33 hp	5.6/2.8	56C	377 psi	14.25 in	13.78 in	13.27 in	A8-1	**4UHZ5**
4 to 50	SAE #16	0.5 hp	7/3.5	56C	377 psi	15.91 in	15.75 in	14.5 in	A10-1	**4UHZ6**
	SAE #20	0.5 hp	8/4	56C	377 psi	19.6 in	21.65 in	15.5 in	A20-1	**4UHZ8**
	SAE #20	1 hp	12.8/6.4	56C	377 psi	24.03 in	25.59 in	16.75 in	A30-1	**4UHZ9**
8 to 80	SAE #16	0.5 hp	7/3.5	56C	377 psi	15.91 in	16.54 in	16.0 in	A15-1	**4UHZ7**
	SAE #20	1 hp	12.8/6.4	56C	377 psi	24.03 in	26.38 in	18.0 in	A40-1	**4UJA1**
230/460V AC Volts										
8 to 80	SAE #20	2 hp	6.2/3.1	56C	377 psi	25.89 in	30.31 in	19.5 in	A55-3	**4UJA2**
20 to 200	2 in SAE 4 Bolt Flange	3 hp	8.6/4.3	56C	377 psi	30.19 in	37.01 in	23.3 in	A90-3	**4UJA3**
	2 in SAE 4 Bolt Flange	3 hp	8.6/4.3	56C	377 psi	33.26 in	38.98 in	23.4 in	A105-3	**4UJA4**
	2 in SAE 4 Bolt Flange	5 hp	13.2/6.6	184TC	377 psi	37.56 in	40.94 in	25.1 in	A130-3	**4UJA5**
	2 in SAE 4 Bolt Flange	7.5 hp	19.6/9.8	213TC	250 psi	38.4 in	43.62 in	29.5 in	A160-3	**4UJA6**
20 to 350	3 in SAE 4 Bolt Flange	10 hp	26/13	215TC	250 psi	46.96 in	49.49 in	30.8 in	A215-3	**4UJA7**
	3 in SAE 4 Bolt Flange	10 hp	26/13	215TC	250 psi	59.76 in	53.68 in	30.7 in	A275-3	**4UJA8**

4UHZ7

Off-Line Forced Air Oil Coolers

AKG®

- Gearmotor type
- Spin-on filter
- Steel fan guard
- Mounting feet included
- 230/460V

High-performance aluminum cooler assemblies come complete with integrated 1750 rpm pump/motor and filter for cooling, filtration, or lubrication circuits in industrial or mobile applications. Excellent in low-pressure systems that use fluids with varying viscosities, and that have varying flow rates or pressure spikes in return lines. Pump flow range: 8.9 gpm to 45.1 gpm. Spin-on filter has a 9 micron rating with 50 psi bypass valve and visual indicator.

HP Heat Removed	Displacement	Full Load Amps	HP	Inlet Port Size	Outlet Port Size	Overall Height	Overall Width	Overall Depth	Item No.
Polypropylene Fan Blade Material									
7.1	1.22 cu in	Fan/Pump - 6.2/3.1	Fan/Pump - 2	Code 61, 1 ½ in Flange	#16	15.20 in	17.70 in	24.00 in	**6PKT9**
14.1	1.22 cu in	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	18.90 in	23.60 in	24.00 in	**6PKU0**
17	2.44 cu in	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	18.90 in	23.60 in	24.00 in	**6PKU1**
18.1	1.22 cu in	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	23.40 in	27.60 in	24.00 in	**6PKU2**
23.0	2.44 cu in	Fan/Pump - 8.6/4.3	Fan/Pump - 3	Code 61, 1 ½ in Flange	#16	23.40 in	27.60 in	24.00 in	**6PKU3**
Nylon Fan Blade Material									
46.8	4.88 cu in	Fan - 6.2/3.1 Pump -19.6/9.8	Fan - 2 Pump - 7.5	Code 61, 2 in Flange	#20	26.30 in	32.30 in	38.00 in	**6PKU4**
59.9	4.88 cu in	Fan - 6.2/3.1 Pump -19.6/9.8	Fan - 2 Pump - 7.5	Code 61, 2 in Flange	#20	31.40 in	38.20 in	38.00 in	**6PKU5**
73.7	4.88 cu in	Fan - 8.6/4.3 Pump - 19.6/9.8	Fan - 3 Pump - 7.5	Code 61, 2 in Flange	#20	33.20 in	39.00 in	48.40 in	**6PKU6**
85.9	4.88 cu in	Fan - 13.2/6.6 Pump - 19.6/9.8	Fan - 5 Pump - 7.5	Code 61, 2 in Flange	#20	37.60 in	40.90 in	50.70 in	**6PKU7**

6PKU0

How To Size a Hydraulic Oil Cooler

1. Find the system oil flow (GPM).
2. Size the heat exchanger to remove approximately 30% of input horsepower.

To find input horsepower, multiply the system pressure (PSI) times the system flow (GPM), then divide by 1714 (PSI x GPM ÷ 1714).

To find an approximation of the BTU removed, multiply the horsepower heat removed by 2545.

4UJF5

AKG®

Air-Cooled Oil Coolers

4UJD5

- Brazed aluminum
- Max. pressure: 250 psi
- Max. temp.: 250°F
- Universal mounting bracket included

Deliver maximum cooling performance while minimizing pressure drop. Designed for rugged environments. Nonlouvered external fin prevents clogging and is easy to clean. Aluminum bar/plate cooler construction is 30% to 50% smaller in size than copper tube/aluminum fin oil coolers for same heat transfer performance. Cooler performance is based on oil entering cooler 100°F higher than ambient air temperature. 1000 standard ft. per minute (sfpm) air velocity.

HP Heat Removed	Flow Ranges (gpm)	Inlet Port Thread Size	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
8 hp	2 to 30	SAE #12	6.65 in	17.91 in	1.77 in	C-8	**4UJD3**
12 hp	2 to 30	SAE #12	11.73 in	13.98 in	2.56 in	C-12	**4UJD6**
14 hp	2 to 30	SAE #12	10.98 in	17.91 in	1.77 in	C-14	**4UJD4**
18 hp	2 to 30	SAE #12	13.58 in	15.94 in	2.56 in	C-18	**4UJD7**
20 hp	2 to 30	SAE #12	15.31 in	17.91 in	1.77 in	C-20	**4UJD5**
32 hp	8 to 80	SAE #20	18.43 in	19.88 in	2.56 in	C-32	**4UJD8**
48 hp	8 to 80	SAE #20	22.13 in	23.62 in	2.56 in	C-48	**4UJD9**
66 hp	8 to 80	SAE #20	25.83 in	27.56 in	2.56 in	C-66	**4UJE1**
82 hp	10 to 110	SAE #24	27.68 in	31.5 in	2.56 in	C-82	**4UJE2**
120 hp	10 to 110	SAE #24	39.49 in	31.5 in	2.56 in	C-120	**4UJE3**

DC Motor Driven Forced Air Oil Coolers

AKG®

- Brazed aluminum with black painted finish
- Max. pressure: 377 psi
- Max. temp.: 250°F
- IP 68 frame
- Mounting bracket included

Cool-Line D Series oil coolers maximize cooling capability while minimizing pressure drop. Ideal for rugged environments. Easy-to-clean, nonlouvered external fin prevents clogging. Aluminum bar/plate cooler construction is 30% to 50% smaller than copper tube/aluminum fin oil coolers for the same heat transfer. Hollow profile design reduces local peak strains, significantly increasing cooler service life. Performance is based on oil entering cooler 100°F higher than ambient air temperature. Brushless DC Motors are rated to 40,000 hours. Coolers with bypass valves are available on Grainger.com.

HP Heat Removed	Flow Ranges (gpm)	Inlet Port Thread Size	Motor HP*	Motor Amps*	Overall W (in.)	Includes	OIL COOLER Mfr. Model	OIL COOLER Item No.	REPLACEMENT MOTOR Item No.
Brushless DC Motor									
16	10 to 50	SAE #16	0.39	24	15.80 in	Temperature Controller	DB16-12	**53XG47**	—
20	10 to 50	SAE #16	0.40	20	15.80 in	Temperature Controller	DB20-12	**53XG50**	—
30	10 to 80	SAE #20	0.39	24	19.70 in	Temperature Controller	DB30-12	**53XG53**	—
36	10 to 80	SAE #20	0.40	25	20.50 in	Temperature Controller	DB36-12	**53XG56**	—
45	10 to 80	SAE #20	0.39	24	28.70 in	Foot Mounting Bracket	DB45-12	**53XG59**	—
DC Motor									
10 hp	2 to 30	SAE #12	0.08 hp	5	13.78 in	Bypass Valve	D10-12-BP65	**53XG28**	**4UJG9**
	2 to 30	SAE #12	—	—	13.78 in	Grill Mounting Bracket	D10-12	**4UJF4**	**4UJG9**
16 hp	4 to 50	SAE #16	0.19 hp	17	15.75 in	Bypass Valve	D16-12-BP65	**53XG30**	**4UJH1**
	4 to 50	SAE #16	0.19 hp	17	15.75 in	Universal Mounting Bracket	D16-12	**4UJF5**	**4UJH1**
20 hp	4 to 50	SAE #16	0.19 hp	17	15.75 in	Bypass Valve	D20-12-BP65	**53XG32**	**4UJH1**
	4 to 50	SAE #16	0.19 hp	17	15.75 in	Universal Mounting Bracket	D20-12	**4UJF6**	**4UJH1**
30 hp	4 to 50	SAE #20	0.48 hp	29	19.69 in	Bypass Valve	D30-12-BP65	**53XG34**	**4UJH2**
	4 to 50	SAE #20	0.48 hp	29	19.69 in	Universal Mounting Bracket	D30-12	**4UJF7**	**4UJH2**
36 hp	8 to 80	SAE #20	0.48 hp	29	20.47 in	Bypass Valve	D36-12-BP60	**53XG37**	**4UJH2**
	8 to 80	SAE #20	0.48 hp	29	20.47 in	Universal Mounting Bracket	D36-12	**4UJF8**	**4UJH2**
45 hp	8 to 80	SAE #20	0.19 hp	17	28.35 in	Foot Mounting Bracket	D45-12	**4UJF9**	**4UJH1**
60 hp	4 to 50	SAE #20	0.48 hp	29	35.63 in	Foot Mounting Bracket	D60-12	**4UJG1**	**4UJH2**
70 hp	8 to 80	SAE #20	0.48 hp	29	36.22 in	Foot Mounting Bracket	D70-12	**4UJG2**	**4UJH2**

** Motor values are per fan. 4UJF9, 4UJG1, 4UJG2 and 53XG59 have 2 fans.*

4WTU2

Water-Cooled Oil Coolers

Lovejoy

- Max. oil pressure: 580 psi
- Max. water pressure: 230 psi

Highly efficient and compact design features aluminum fins that are mechanically bonded to copper tubes to extend cooling surface area. Removable end caps allow easy access for cleaning. Mounting brackets may be rotated for easy installation and design flexibility. Industry standard design allows interchangeability.

HP Heat Removed	Flow Range	Inlet Oil Port Size	Inlet Oil Port Size	Overall Width	Overall Height	Mfr. Model	Item No.
4 to 11	4 to 20 gpm	¾ in	¾ in	11.42 in	3.86 in	84527103102	**4WTT9**
8 to 21	6 to 59 gpm	1 ½ in	1 ½ in	11.81 in	5.47 in	84527103212	**4WTU1**
20 to 60	10 to 87 gpm	2 in	2 in	17.17 in	7.64 in	84527103312	**4WTU2**
35 to 130	10 to 87 gpm	2 in	2 in	29.17 in	7.64 in	84527103314	**4WTU3**
58 to 220	10 to 87 gpm	2 in	2 in	53.19 in	7.64 in	84527103315	**4WTU4**

4VV74

Parker

Hydraulic Accumulators and Repair Kits

CHARGING AND GAUGING KIT

Can be used for charging either a bladder or piston accumulator. Includes 10-ft. hose with fittings, adapter and gas valve, bleeder valve, gas chuck, and pressure gauge.

ACCUMULATORS

- Steel housing
- Max. pressure: 3000 psi

Bladder—Made from chrome-molybdenum alloy steel with forged ends.

- Temp. range: -20° to 200°F

Diaphragm—Lightweight, welded, completely sealed accumulators can be mounted in any direction. Hydrin diaphragm bag. Not serviceable.

- Temp. range: -40° to 176°F

Piston—Vertical-mount, serviceable accumulators have Buna N O-ring seals.

- Temp. range: -20° to 165°F

Description	Mfr. Model	Item No.
Charging and Gauging Kit	CG-3000AGRG	**4VV89**

For Use With	MOUNTING CLAMPS Item No.	MOUNTING BASES Item No.
Bladder Accumulator Mounting Clamps & Bases		
4VV73	**4VV84**	—
4VV74	**4VV85**	**4VV87**
4VV75	**4VV86**	**4VV88**
4VV76	**4VV86**	**4VV88**
4VV77	**4VV86**	**4VV88**

Fluid Volume	Dia. (in.)	Gas Volume (cu.-in.)	H (in.)	Inlet SAE (in.)	Mfr. Model	ACCUMULATORS Item No.	ACCUMULATOR REPAIR KITS Item No.
Bladder Accumulators							
58 cu in			10.93		BA002B3T01Y2GRG	**4VV73**	**4VV78**
231 cu in	6.61	231	17.26	SAE #20 (1⅝-12)	BA01B3T01P2GRG	**4VV74**	**4VV79**
578 cu in	8.78	520	21.6	SAE #24 (1⅞-12)	BA02B3T01P2GRG	**4VV75**	**4VV80**
1,155 cu in	8.78	1155	33.85	SAE #24 (1⅞-12)	BA05B3T01P2GRG	**4VV76**	**4VV81**
2,310 cu in	8.78	2171	54.85	SAE #24 (1⅞-12)	BA10B3T01P2GRG	**4VV77**	**4VV82**
Diaphragm Accumulators							
5 cu in	2.52	5	4.35	#6	AD007B25T9A1	**6NZJ9**	—
10 cu in	2.95	10	4.69	#6	AD016B25T9A1	**6NZK0**	—
20 cu in	3.74	20	2.55	#8	AD032B21T9A1	**6NZK1**	—
30 cu in	4.2	30	5.94	#8	AD050B21T9A1	**6NZK2**	—
45 cu in	4.87	45	6.65	#8	AD075B25T9A1	**6NZK3**	—
Piston Accumulators							
30 cu in	2.38	31	12.3	¾-16 (#8)	ACP05AA050E1KTC	**4WB43**	**4WB70**
57 cu in	2.38	61	21.79	¾-16 (#8)	ACP05AA100E1KTC	**4WB45**	**4WB70**
58 cu in	3.56	63	13.25	1¹⁄₁₆-12 (#12)	A3N0058D1KG	**4WB47**	**4WB72**
116 cu in	3.56	121	16.42	1¹⁄₁₆-12 (#12)	A3N0116D1KG	**4WB49**	**4WB72**
	4.75	125	15.06	1⅝-12 (#20)	A4N0116D1KG	**4WB51**	**4WB74**
231 cu in			24.06		A4N0231D1KG	**4WB54**	**4WB74**
	6.88	262	16.25	1⅞-12 (#24)	A6N0231D1KG	**4WB60**	**4WB76**
347 cu in	4.75	356	33.19	1⅝-12 (#20)	A4N0347D1KG	**4WB57**	**4WB74**
578 cu in	6.88	609	29.5	1⅞-12 (#24)	A6N0578D1KG	**4WB62**	**4WB76**
1,155 cu in	6.88	1186	51.5	1⅞-12 (#24)	A6N1155D1KG	**4WB64**	**4WB76**
2,310 cu in	6.88	2341	98.5	1⅞-12 (#24)	A6N2310D1KG	**4WB68**	**4WB76**

39D691

Oil Glo®
5LA43

Oil Leak Detection Kits and Accessories

SPECTROLINE®

Kits—For all petroleum and synthetic fluid systems. Environmentally friendly kits help pinpoint exact source of leaks.

Flashlights/Lamps—Ultra-high-intensity, versatile, pure UV-A LED lamps detect leaks in industrial close-looped fluid systems.

Typical Applic.	Includes	Mfr. Model	Item No.
Kits			
Industrial Fluid Systems	(1) OIL-GLO 44-8 Dye, GLO-Away Dye Cleaner and Small Green Carrying Case, OPX-400I Optimax 400 Cordless, UVS-40 Glasses, Violet Light LED Flashlight	OPK-441	**46AY06**
Industrial Fluid Systems	(1) OIL-GLO 44-P Dye, (1) Rechargeable Lithium-Ion Battery, GLO-Away Dye Cleaner and Medium Green Carrying Case, Lanyard, OLX-400I Opti-Lux 400 Cordless, Rechargeable Violet Light LED Flashlight with Battery Charging Cradle with AC and DC Cord Sets, UVS-40 Glasses	OLK-444	**46AY07**
Aviation Fluid Systems	AD-8609-0008 Aero-Brite(TM) Dye for Aircraft Fluid Systems, GLO-AWAY Dye Cleaner, Holster, OPX-365 OPTIMAX(TM) 365 UV LED Flashlight, UVS-30 UV-Absorbing Glasses	ALK-365	**39D693**
Aviation Fluid Systems	AD-8609-0008 Aero-Brite(TM) Dye for Aircraft Fluid Systems, GLO-AWAY Dye Cleaner and CC-350, MAXIMA(TM) ML-3500S UV Lamp, UVS-30 and UVS-40 Glasses	MLK-35A	**39D694**
Aviation Fluid Systems	AD-8609-0008 Aero-Brite(TM) Dye for Aircraft Fluid Systems, BP-12A Battery Pack, GLO-AWAY Dye Cleaner, MAXIMA(TM) ML-3500MS UV Lamp, UVS-30 and UVS-40 Glasses	MLK-35MA	**39D695**

Item	Includes	Mfr. Model	Item No.
Flashlights/Lamps			
UV Inspection Flashlight Kit	Battery Charging Cradle with AC Cord Set, Belt Holster, Lanyard, Rechargeable Battery, Spare Battery, UVS-30 UV-Absorbing Spectacles	OLX-365	**39D690**
UV Inspection Flashlight Kit	12V DC Charger, AC Charger, Holster, UVS-30 UV- Absorbing Spectacles	OPX-365	**39D691**
UV Micro-Discharge Light Inspection Lamp	GLO-AWAY Dye Cleaner, UVS-30 and UVS-40 Glasses	MLK-35	**39D692**

Description	1 OZ Mfr. Model	1 OZ Item No.	1 OZ Pkg. Qty.	8 OZ Mfr. Model	8 OZ Item No.	8 OZ Pkg. Qty.	PINT Mfr. Model	PINT Item No.	PINT Pkg. Qty.	GALLON Mfr. Model	GALLON Item No.	GALLON Pkg. Qty.	16 OZ Mfr. Model	16 OZ Item No.	16 OZ Pkg. Qty.	1 PT Mfr. Model	1 PT Item No.	1 PT Pkg. Qty.
Fluorescent Dye, For Use with UV and/or Blue Inspection Lamps																		
Blue	OIL-GLO 40/6	**39D679**	6	OIL-GLO 40-8	**39D680**	1	OIL-GLO 40-P	**39D681**	1	OIL-GLO 40-G	**39D682**	1	—	—	—	—	—	—
Green	OIL-GLO 33/6	**39D675**	6	OIL-GLO 33-8	**39D676**	1	OIL-GLO 33-P	**39D677**	1	OIL-GLO 33-G	**39D678**	1	—	—	—	—	—	—
Green, Aviation	—	—	—	AD-8609-0008	**39D696**	1	—	—	—	AD-8609-0100	**39D698**	1	AD-8609-0016	**39D697**	1	—	—	—
Red	OIL-GLO 50/6	**39D686**	6	OIL-GLO 50-8	**39D687**	1	OIL-GLO 50-P	**39D688**	1	OIL-GLO 50-G	**39D689**	1	—	—	—	—	—	—
White	OIL-GLO 30/6	**39D671**	6	OIL-GLO 30-8	**39D672**	1	OIL-GLO 30-P	**39D673**	1	OIL-GLO 30-G	**39D674**	1	—	—	—	—	—	—
Yellow	OIL-GLO 22/6	**39D667**	6	OIL-GLO 22-8	**39D668**	1	OIL-GLO 22-P	**39D669**	1	OIL-GLO 22-G	**39D670**	1	—	—	—	—	—	—
Yellow/Green	OIL-GLO 44/6	**39D683**	6	OIL-GLO 44-8	**39D684**	1	—	—	—	OIL-GLO 44-G	**39D685**	1	—	—	—	OIL-GLO 44-P	**5LA43** *	1

**** Recommended Dilution Dependent On Host Fluid***

Steel Hydraulic Reservoirs

24W704

Feature 11-ga. hot rolled steel construction and oil sight gauge with thermometer. Filler breathers filter air to 40 microns and provide easy access for adding hydraulic oil. Include appropriately sized and placed suction and return connections.

24W699, 24W701, and 24W702 have convenient cleanout covers.

24W703 and 24W704 include internal baffles with cutouts.

Nom. Cap. (gal.)	Removable Cover	Return Port (in.)	Suction Port Size (in.)	L (in.)	W (in.)	H (in.)	Item No.
Vertical							
2	Yes	½ NPT	1 NPT	10⅜	8 7/16	10 7/16	**24W699**
5	Yes	½ NPT	1 NPT	10⅜	10⅜	16⅜	**24W701**
8	Yes	¾ NPT	1½ NPT	14¼	12	18⅛	**24W702**
Horizontal							
10	No	¾ NPT	1½ NPT	22¼	14	12¼	**24W703**
20	No	¾ NPT	1½ NPT	26¼	18	14¼	**24W704**

Lovejoy

Aluminum Hydraulic Reservoirs and Tanks

3JWR9

Aluminum construction provides twice the heat dissipation of steel reservoirs.

RESERVOIRS

Include tank, oil sight gauge and filler breather, lid gasket, and lid with return/suction ports.

LEG KITS

Can be used with either reservoirs or tanks to improve air circulation under the tank.

ENVIRO SEALS

Heavy-duty seals help prevent oil leaks and can be used with either reservoirs or tanks.

TANK LIDS

Easily modified to accept vertical or horizontal pump/motor configurations and mounting of additional system hardware. Include lid, gasket, and fasteners.

						RESERVOIRS		TANKS		LEG KITS		ENVIRO SEALS		TANK LIDS FOR TANKS ONLY	
Nom. Cap. (gal.)	L (in.)	W (in.)	H* (in.)	Return Port (in.)	Suction Port Size (in.)	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
1.6	10¼	8 11/16	9	½ NPT	1 NPT	84527102350	**3JWR5**	84527102102	**3JWT8**	—	—	—	—	84527102802	**3JWU5**
2.6	12 5/16	9 9/16	10⅜	½ NPT	1 NPT	84527102351	**3JWR6**	84527102103	**3JWT9**	84527101301	**3JWT2**	—	—	84527102803	**3JWU6**
4.5	14 9/16	11½	11 9/16	½ NPT	1 NPT	84527102352	**3JWR7**	84527102105	**3JWU1**	84527101301	**3JWT2**	—	—	84527102805	**3JWU7**
7.1	19 5/16	13 7/16	13⅛	¾ NPT	1½ NPT	84527102353	**3JWR8**	84527102107	**3JWU2**	84527101302	**3JWT3**	84527102307	**3JWT5**	84527102807	**3JWU8**
11	20 11/16	16 11/16	14 5/16	¾ NPT	1½ NPT	84527102354	**3JWR9**	84527102111	**3JWU3**	84527101303	**3JWT4**	84527102311	**3JWT6**	84527102811	**3JWU9**
17	24¼	18 11/16	16 5/16	¾ NPT	1½ NPT	84527102355	**3JWT1**	84527102117	**3JWU4**	84527101303	**3JWT4**	84527102317	**3JWT7**	84527102817	**3JWX1**

**** Height includes filler breather, not included on tanks.***

Parker

Hydraulic Reservoir Breathers

- Operating temp.: -20° to 250°F
- 3-micron filter
- Silica gel desiccant type
- 1" NPT inlet

Help prevent moisture and particulates from entering the hydraulic system. Replace breather when silica gel changes color from blue to pink.

2NMR9

Description	Overall Length	Mfr. Model	Item No.
Reservoir Breathers			
Reservoir Breather	5 in	934330T	**2NMR9**
Reservoir Breather	7 in	934331T	**2NMT1**
Reservoir Breather	9 in	934332T	**2NMT2**
Breather Adapters			
Field Breather Adapter	—	937546	**2NMT3**
Flange Breather Adapter	—	937463	**2NMT4**

Reservoir Fluid Level/ Temperature Gauges

- Max. working pressure: 15 psi
- Max. temp.: 200°F

Level gauges with wide sight opening for maximum visibility. Crystal-clear glass sights are compatible with all mineral and petroleum-based fluids. ½-20 UNF threads on mounting bolts. For additional fluid level gauges, see page 2464.

24W710

Description	Item No.
Mounting Center Level Gauge 5"	**24W710**
10" Mounting Center Level Gauge	**24W711**

Filler Breathers

24W705

24W709

- Max. operating temp.: 200°F
- 40-micron filter
- Foam filter media

Use as a tank filler port to allow tank to breathe while keeping out airborne particles. 24W708 and 24W709 feature bayonet design.

Inlet Size	Outside Dia.	Overall Length	Overall Height	Item No.
Standard Reservoir Breather, Standard with Nickel-Chrome-Plated Steel Cap				
¾ in NPT	3 in	—	2.6 in	**24W705**
Miniature Reservoir Breather, Miniature with Polyamide Cap				
½ in NPT	1.57 in	—	1.5 in	**24W706**
Miniature Reservoir Breather with Polyamide Cap				
¾ in NPT	1.77 in	1.50"	1.5 in	**24W707**
Side Mount Reservoir Filler Breather with Nickel-Chrome-Plated Steel Cap				
—	3 in	—	6.1 in	**24W708**
Standard Reservoir Filler Breather with Nickel-Chrome-Plated Steel Cap				
—	3 in	—	6.1 in	**24W709**

Hydraulic Suction Strainers

Use to filter oil at end of pick-up tube in oil reservoir. Stainless steel end plates and 3-pc. inner frame. Suction strainer is glass fiber construction. 100-mesh screen can be easily cleaned.

24W723

Thread Size	Nominal Flow	Overall Length	Dia.	Item No.
½ in NPT	5 gpm	3.11 in	2.62 in	**24W720**
¾ in NPT	8 gpm	3.5 in	2.62 in	**24W721**
1 in NPT	10 gpm	5.41 in	2.62 in	**24W722**
1¼ in NPT	20 gpm	6.91 in	3.41 in	**24W723**
1½ in NPT	30 gpm	8.1 in	3.41 in	**24W724**

31CC51

21U129

39E996

3FWY3

48J295

36N562

SPEEDAIRE PORTER CABLE BOSTITCH SENCO

Pneumatic Finish and Brad Nailers

FINISH NAILERS

Features include depth-of-drive adjustment, over-molded rubber grip, and no-mar tip. Oil-free.

Speedaire—Feature adjustable exhaust, quick jam release, belt hook, and adjustable trigger.

Porter Cable—Nailers have an adjustable exhaust, sequential-style trigger with lockoff switch, and adjustable belt hook.

Bostitch—45YJ66 has a tool-free jam release mechanism for easy nail removal and includes sample finish nails, extra no-mar tips, and carrying case.

3FWY2 features tool-free jam release, selectable trigger and tool-free adjustable belt hook. Includes sample fasteners, ¼" fitting, and carrying case.

Senco—21U129 has a rugged and magnesium body, sequential-style trigger, 360° adjustable exhaust, comfort grip, belt hook, and easy-clear latch.

BRAD NAILERS

Feature adjustable work contact element and adjustable drive depth. Clear jams quickly; load easily. Include rechargeable battery, charger, safety glasses, and case. 48LR72 features an LED light.

Notes: Pin Nailers available on Grainger.com.

Bostitch—3FWY3 features tool-free access to drive channel, dry-fire lockout, and quiet rear exhaust. Includes 100 brad nails, hex wrench, belt hook and carrying case.

Collation Angle	Collation Type	Fastener Range	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
15 Gauge Finish Nailers							
34°	Glue	1 ¼ in to 2 ½ in	120	4.4 lb	Speedaire	31CC51	**31CC51**
34°	Tape	1 in to 2½ in	100	3.9 lb	Porter Cable	DA250C	**3FZD6**
25°	Glue	1¼ in to 2½ in	129	4.3 lb	Bostitch	BTFP72156	**45YJ66**
34°	Glue	1¼ in to 2½ in	100	4.3 lb	Bostitch	BTFP72155	**36Z453**
34°	Glue	1¼ in to 2½ in	104	4.7 lb	Senco	FINISHPRO 42XP	**21U129**
16 Gauge Finish Nailers							
0°	Glue	1 in to 2½ in	100	3.9 lb	Porter Cable	FN250C	**3FZD5**
0°	Glue	1¼ in to 2½ in	100	3.9 lb	Bostitch	BTFP71917	**3FWY2**
18 Gauge Brad Nailers							
0°	Glue	⅝ in to 2 in	100	2.7 lb	Porter Cable	BN200C	**39E996**
0°	Glue	⅝ in to 2⅛ in	110	2.7 lb	Bostitch	BT1855K	**3FWY3**
0°	Glue	⅝ in to 2⅛ in	100	2.5 lb	Senco	FINISHPRO 18BMG	**48LR72**

SENCO Paslode

Cordless Finish and Brad Nailers

FINISH NAILERS

All models include no-mar tips, a rechargeable battery, battery charger, safety glasses, and a carrying case.

Senco Battery-Actuated Nailers—48J292 features the Reflex-Shot design that provides an instant shot when the trigger is pulled. No fuel cell required. Includes selectable drive switch, nose-mounted LED light, reversible and adjustable belt hook, battery, and charger.

Paslode Fuel-Actuated Nailers—Include tool-free adjustable depth feature and easy jam removal.

BRAD NAILERS

Feature adjustable work contact element and adjustable drive depth. Clear jams quickly; load easily.

Collation Angle	Collation Type	Fastener Range	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Battery-Actuated Nailers							
15 Gauge Finish Nailers							
34°	Tape	1¼ in to 2½ in	110	6.2 lb	Senco	5N0001N	**48J292**
16 Gauge Finish Nailers							
0°	Adhesive	¾ in to 2½ in	110	6 lb	Senco	6U0001N	**48J294**
18 Gauge Brad Nailers							
0°	Adhesive	⅝ in to 2⅛ in	110	6 lb	Senco	6E0001N	**48J295**
Fuel-Actuated Nailers							
16 Gauge Finish Nailers							
0°	Adhesive	1¼ in to 2½ in	100	4.6 lb	Paslode	916000	**48PD36**
20°	Adhesive	1¼ in to 2½ in	100	4.5 lb	Paslode	902400	**36N562**

Description	Mfr. Model	Item No.
Accessories for Paslode Cordless Tools		
6V DCV NiCd Battery	404717	**4WL38**
6.0V NiCd Battery Charger	900200	**4WL47**
7.4V Li-Ion Battery	902654	**19L845**
Accessories for Paslode Cordless Nailers		
(2) Twist on External Metering Valve Adapters All Paslode Cordless Finish Nailers	816007	**36N563**
Accessories for Senco® Cordless Nailers		
18V DCV Li-Ion Battery	VB0155	**48J273**
18.0V Li-Ion Battery Charger	VB0156	**48J274**

PORTER CABLE

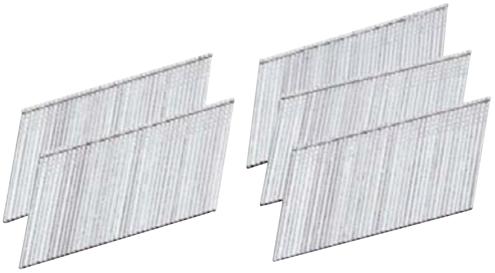
Nailer and Air Compressor Combination Kits

All kits come with compressor, nailer, and hose.

22EW01

22EW02

HP	Input Voltage	Tank Style	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	Includes	Mfr. Model	Item No.
Kit w/ Compressor and Brad Nailer								
0.8 hp	120V AC	Pancake	6.0 gal	2.6	150 psi	(100) 1¼ in Brad Nails, ¼ in Air Hose, Brad Nailer, Compressor, Coupler, Plug	PCFP12236	**22EW01**
Kit w/ Compressor, Brad Nailer and Finish Nailer								
0.8 hp	120V AC	Pancake	6.0 gal	2.6	150 psi	(100) 1¼ in Brad Nails, (100) 2 in Finish Nails, ¼ in Air Hose, Brad and Finish Nailer, Compressor, Coupler, Plug	PCFP12656	**22EW02**



BOSTITCH DEWALT PORTER CABLE SENCO

15 ga. Angled Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

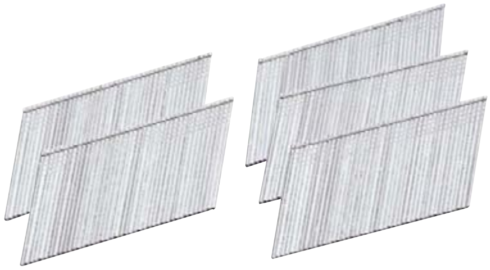
Collation Angle	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive						
Bostitch®						
25°	1 ½ in	Coated	Chisel	FN1524	**5A858**	3655
25°	2 in	Coated	Chisel	FN1532	**5A859**	3655
25°	2 ½ in	Coated	Chisel	FN1540	**5A860**	3655
DeWalt®						
35°	1 ½ in	Coated	Chisel	DCA15150-2	**52NY82**	2500
35°	2 ½ in	Coated	Chisel	DCA15250-2	**52NY83**	2500
Porter Cable®						
34°	1 in	Bright	Chisel	PDA15100	**3FZG1**	4000
34°	1 ¼ in	Bright	Chisel	PDA15125	**3FZG2**	4000
34°	1 ½ in	Bright	Chisel	PDA15150	**2VDJ5**	4000
34°	1 ¾ in	Bright	Chisel	PDA15175	**3FZG3**	4000
34°	2 in	Bright	Chisel	PDA15200	**2VDJ6**	4000
34°	2 ½ in	Bright	Chisel	PDA15250	**2VDJ7**	4000
34°	2 ½ in	Galvanized	Chisel	PDA15250G	**49VT77**	4000
Tape						
Senco®						
34°	1 ½ in	Bright	Chisel	DA17EPBN	**19T447**	4000
34°	1 ½ in	Galvanized	Chisel	DA17EABN	**19T448**	4000
34°	2 in	Bright	Chisel	DA21EPBN	**19T449**	4000
34°	2 in	Galvanized	Chisel	DA21EABN	**19T450**	4000
34°	2 ½ in	Bright	Chisel	DA25EPB	**19T451**	3000
34°	2 ½ in	Galvanized	Chisel	DA25EAB	**19T452**	3000

BOSTITCH DEWALT Paslode PORTER CABLE SENCO

16 ga. Straight Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive					
Bostitch®					
1 ½ in	Coated	Chisel	SB16-1.50	**3HZJ6**	2500
2 in	Coated	Chisel	SB16-2.00	**3HZJ7**	2500
2 ½ in	Coated	Chisel	SB16-2.50	**3HZJ8**	2500
DeWalt®					
1 ¼ in	Bright	Chisel	DCS16125	**3FZH3**	2500
1 ½ in	Bright	Chisel	DCS16150	**3FZH4**	2500
2 in	Bright	Chisel	DCS16200	**3FZH5**	2500
2 ½ in	Bright	Chisel	DCS16250	**3FZH6**	2500
Paslode®					
1 ¼ in	Zinc Galvanized	Chisel	650282	**5VK11**	2000
1 ½ in	Zinc Galvanized	Chisel	650283	**4WL16**	2000
2 in	Zinc Galvanized	Chisel	650285	**4WL17**	2000
2 ½ in	Zinc Galvanized	Chisel	650287	**4WL14**	2000
Porter Cable®					
1 ¼ in	Bright	Chisel	PFN16125	**3FZF1**	2500
1 ½ in	Bright	Chisel	PFN16150	**3FZF2**	2500
1 ¾ in	Bright	Chisel	PFN16175	**3FZF3**	2500
2 in	Bright	Chisel	PFN16200	**3FZF4**	2500
2 ½ in	Bright	Chisel	PFN16250	**3FZF5**	2500
Glue					
Senco®					
1 ½ in	Galvanized	Chisel	M001003	**19T455**	2000
2 in	Galvanized	Chisel	M001005	**19T456**	2000
2 ½ in	Galvanized	Chisel	M001007	**19T457**	2000

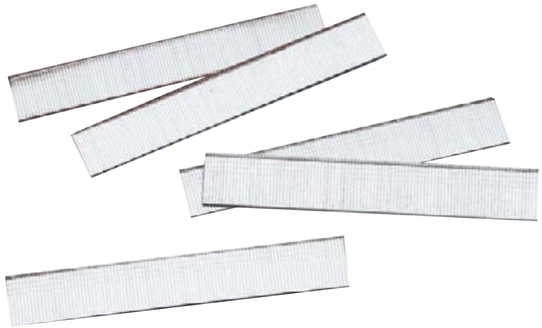


DEWALT Paslode SENCO

16 ga. Angled Finish Nails

Collated nails are for use with cordless and pneumatic finish nailers.

Collation Angle	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Adhesive						
DeWalt®						
20°	1 ¼ in	Bright	Chisel	DCA16125	**3FZG8**	2500
20°	1 ½ in	Bright	Chisel	DCA16150	**3FZG9**	2500
20°	2 in	Bright	Chisel	DCA16200	**3FZH1**	2500
20°	2 ½ in	Bright	Chisel	DCA16250	**3FZH2**	2500
Paslode®						
20°	1 ¼ in	Zinc Galvanized	Chisel	650230	**5VK17**	2000
20°	1 ½ in	Zinc Galvanized	Chisel	650231	**5VK18**	2000
20°	2 in	Zinc Galvanized	Chisel	650047	**5VK16**	2000
20°	2 ½ in	Zinc Galvanized	Chisel	650232	**5VK19**	2000
Glue						
Senco®						
20°	2 in	Galvanized	Chisel	RH21EAA	**19T459**	2000
20°	2 ½ in	Galvanized	Chisel	RH25EAA	**19T460**	2000



BOSTITCH DEWALT PORTER CABLE SENCO

18 ga. Brad Nails

Collated brads are for use with cordless and pneumatic brad nailers.

L	Finish	Mfr. Model	Item No.	Pkg. Qty.
Adhesive				
Bostitch®				
⅝ in	Bright	BT1300B	**2W804**	3000
¾ in	Bright	BT1303B	**2W805**	3000
1 in	Bright	BT1309B	**2W806**	3000
1 ⅜ in	Bright	BT1335B	**4WK95**	3000
1 ¾ in	Bright	BT1345B	**4WK96**	2000
2 in	Bright	BT1350B	**4WK97**	2000
DeWalt®				
⅝ in	Coated	DBN18063-2	**52NY85**	2500
1 ¼ in	Coated	DBN18125-2	**52NY86**	2500
1 ½ in	Coated	DBN18150-2	**52NY87**	2500
2 in	Coated	DBN18200-2	**52NY88**	2500
Porter Cable®				
⅝ in	Bright	PBN18063	**3FZE2**	5000
¾ in	Bright	PBN18075	**3FZE3**	5000
1 in	Bright	PBN18100	**3FZE4**	5000
1 ¼ in	Bright	PBN18125	**3FZE5**	5000
1 ½ in	Bright	PBN18150	**3FZE6**	5000
1 ¾ in	Bright	PBN18175	**3FZE7**	5000
2 in	Bright	PBN18200	**3FZE8**	5000
Glue				
Senco®				
⅝ in	Galvanized	AX10EAA	**19T462**	5000
¾ in	Galvanized	AX11EAA	**19T463**	5000
1 in	Galvanized	AX13EAA	**19T464**	5000
1 ¼ in	Galvanized	AX15EAA	**19T465**	5000
1 ½ in	Galvanized	AX17EAA	**19T466**	5000
1 ⅝ in	Galvanized	AX18EAA	**19T467**	5000
2 in	Galvanized	AX21EAAN	**19T468**	5000

SENCO BOSTITCH

Pneumatic Framing Nailers

Clipped Head—Drives ring, screw, and smooth-shank 34° paper taped strip nails. High-efficient internal design reduces less wear and tear. Eliminates jams and mis-feeds and fits easily between studs and joints.

Full Round Head—35JG54 features a TrueDrive magazine to help reduce misfeeds and jams. Low-profile design allows use in tight spaces. 5KNH5 has a magnesium body with a 130:1 power-to-weight ratio and 1050 in.-lb. of driving power. Use in engineered lumber. Features tool-free push-button drive depth control, adjustable exhaust, and steel backer plate.

Offset Round Head—Features tool-free adjustable exhaust and push-button depth of drive.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Clipped Head Nail Gun								
34°	Paper	2 in to 3 ¼ in	0.113 in to 0.148 in	83	7.1 lb	Senco	FRAMEPRO 325XP	**48LR49**
Full Round Head Nail Gun								
20°	Plastic	2 in to 3 ¼ in	0.113 in to 0.148 in	64	7.9 lb	Senco	FRAMEPRO 325FRHXP	**35JG54**
21°	Plastic	2 in to 3 ½ in	0.113 in to 0.162 in	60	8.1 lb	Bostitch	F21PL	**2UV89**
21°	Plastic	2 in to 3 ½ in	0.113 in to 0.162 in	60	8.1 lb	Bostitch	F21PL2	**5KNH5**
21°	Plastic	2 in to 3 ¼ in	0.113 in to 0.131 in	64	7.7 lb	Bostitch	BTF83PL	**410X70**
Offset Round Head Nail Gun								
28°	Wire	2 in to 3 ½ in	0.113 in to 0.131 in	100	7.7 lb	Bostitch	F28WW	**2UV87**

DEWALT Paslode

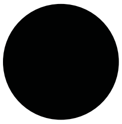
Cordless Framing Nailers

Operate on a fuel cell and cordless battery. Both include a rechargeable Li-Ion battery and charger. 48PD34 features a nose that allows toe nailing at any angle, keyless adjustable depth of drive, and a heavy-duty utility hook.

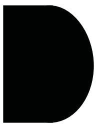
Head Style	Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Nail Gun									
Various	30°	Paper	2 in to 3½ in	0.113 in to 0.131 in	55	8 lb	DeWalt	DCN692M1	**30PL22**
Round	30°	Paper	2 in to 3¼ in	0.113 in to 0.131 in	30	7.2 lb	Paslode	906300	**48PD34**

Includes	Mfr. Model	Item No.
Paslode Fuel/Fastener Pack for 48PD34		
(1000) 2 ⅜ in x 0.113 in, Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650522	**3FRR7**
(1000) 2 ⅜ in x 0.113 in, Tape Collated, Ring Bright, (1) Fuel Cartidge & Adapter	650523	**3FRR8**
(1000) 3 in x 0.12 in, Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650524	**3FRR9**
(1000) 3 in x 0.131 in, Tape Collated, Smooth Bright, (1) Fuel Cartidge & Adapter	650525	**3FRT1**
(1000) 2 ⅜ in x 0.113 in, Tape Collated, Ring HDG+, (1) Fuel Cartidge & Adapter	650526	**3FRT2**
(1000) 3 in x 0.12 in, Tape Collated, Ring HDG+, (1) Fuel Cartidge & Adapter	650527	**3FRT3**
(1000) 3 ¼ in x 0.131 in, Tape Collated, Smooth Brite US32, (1) Fuel Cartidge & Adapter	650535	**3FRT4**
(1000) 2 in x 0.113 in Tape Collated Ring HDG+, (1) Fuel Cartidge & Adapter	650564	**3FRT6**

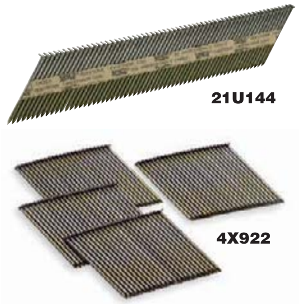
Description	Mfr. Model	Item No.
Accessories for Paslode Cordless Tools		
(2) Fuel Cartridge For 19L844, 18PD34	816008	**31EE19**
6.0V Ni-Cd Battery Charger	900200	**4WL47**
6V DCV Ni-Cd Battery	404717	**4WL38**
7.4V Li-Ion Battery	902654	**19L845**
Cordless Framing Nailer Red Fuel Cell, Pk. 2 for 4WL36	816000	**4WL45**
Cordless Lubricating Oil	401482	**4WL31**
Li-ion Battery Charger Kit, Cordless Nailers	902667	**19L846**



Full Round Head



Clipped Head



Collation Angle	Collation Type	L	Shank	Shank Dia.	Finish	Item No.	Pkg. Qty.
Clipped Head							
Senco							
34°	Tape	2⅜ in	Ring	0.113 in	Bright	**21U144**	2500
34°	Tape	3 in	Smooth	0.12 in	Bright	**21U143**	2500
Senco®							
34°	Tape	3 in	Smooth	0.131 in	Bright	**21U142**	2500
Full Round Head							
Bostitch							
21°	Plastic	2⅜ in	Smooth	0.113 in	Coated	**4WL05**	5000
21°	Plastic	2⅜ in	Ring	0.113 in	Coated	**3HZG9**	5000
21°	Plastic	3 in	Ring	0.12 in	Hot Dipped Galvanized	**3HZG6**	4000
21°	Plastic	3 in	Ring	0.131 in	Hot Dipped Galvanized	**400F90**	4000
21°	Plastic	3 in	Smooth	0.131 in	Coated	**4WL03**	4000
21°	Plastic	3¼ in	Smooth	0.131 in	Coated	**4WL04**	4000
21°	Plastic	3¼ in	Smooth	0.131 in	Hot Dipped Galvanized	**3HZG8**	4000
Paslode							
30°	Tape	2 in	Ring	0.113 in	Hot Dipped Galvanized	**3FRP6**	2000
30°	Tape	2⅜ in	Ring	0.113 in	Hot Dipped Galvanized	**5LB31**	2000
30°	Tape	3 in	Ring	0.12 in	Hot Dipped Galvanized	**3FRP7**	2000
30°	Tape	3 in	Ring	0.131 in	Hot Dipped Galvanized	**3FRP9**	2000
30°	Tape	3 in	Smooth	0.131 in	Brite US32	**31EE20**	2500
30°	Tape	3 in	Smooth	0.12 in	Brite US32	**31EE21**	2500
30°	Tape	3¼ in	Smooth	0.131 in	Hot Dipped Galvanized	**5LB33**	2000
30°	Tape	3¼ in	Smooth	0.131 in	Brite US32	**31EE22**	2500

SENCO BOSTITCH Paslode

Collated Framing Nails

For use with both cordless and pneumatic framing nailers.

Collation Angle	Collation Type	L	Shank	Shank Dia.	Finish	Item No.	Pkg. Qty.
Senco							
15°	Wire	2⅜ in	Ring	0.113 in	Bright	**48LR13**	6000
15°	Plastic	3 in	Smooth	0.12 in	Bright	**48LR14**	4000
15°	Wire	3 in	Ring	0.12 in	Hot Dipped Galvanized	**48LR15**	2400
20°	Plastic	2⅜ in	Ring	0.113 in	Bright	**21U146**	5000
20°	Plastic	2½ in	Smooth	0.131 in	Bright	**48LR16**	4000
20°	Plastic	3 in	Smooth	0.113 in	Bright	**21U145**	4000
20°	Plastic	3¼ in	Smooth	0.131 in	Hot Dipped Galvanized	**48LR17**	2500
20°	Plastic	3¼ in	Smooth	0.131 in	Bright	**48LR18**	4000
20°	Plastic	3½ in	Smooth	0.131 in	Bright	**48LR19**	4000
34°	Tape	2 in	Ring	0.113 in	Hot Dipped Galvanized	**48LR50**	2500
34°	Tape	2⅜ in	Ring	0.113 in	Bright	**48LR51**	2500
34°	Tape	2⅜ in	Ring	0.113 in	Hot Dipped Galvanized	**48LR52**	2500
34°	Tape	3 in	Smooth	0.12 in	Bright	**48LR53**	2500
34°	Tape	3 in	Ring	0.12 in	Hot Dipped Galvanized	**48LR55**	2500
34°	Tape	3 in	Smooth	0.131 in	Bright	**48LR56**	2500
34°	Tape	3 in	Smooth	0.131 in	Hot Dipped Galvanized	**48LR57**	2500
34°	Tape	3 in	Ring	0.131 in	Hot Dipped Galvanized	**48LR61**	2500
34°	Tape	3¼ in	Smooth	0.131 in	Bright	**48LR58**	2500
34°	Tape	3¼ in	Smooth	0.131 in	Hot Dipped Galvanized	**48LR59**	2500
34°	Tape	3½ in	Smooth	0.131 in	Bright	**48LR60**	2500
Offset Round Head							
Bostitch							
28°	Wire	2 in	Smooth	0.113 in	Coated	**5X386**	2000
28°	Wire	2⅜ in	Smooth	0.12 in	Coated	**5W231**	2000
28°	Wire	2⅜ in	Smooth	0.12 in	Thickcoat Galvanized	**4X953**	2000
28°	Wire	2⅜ in	Ring	0.12 in	Coated	**3HZH5**	2000
28°	Wire	3 in	Smooth	0.12 in	Coated	**4X922**	2000
28°	Wire	3 in	Smooth	0.12 in	Thickcoat Galvanized	**4X954**	2000
28°	Wire	3 in	Ring	0.12 in	Thickcoat Galvanized	**3HZH4**	2000
28°	Wire	3¼ in	Smooth	0.12 in	Coated	**5X389**	2000
28°	Wire	3¼ in	Smooth	0.12 in	Thickcoat Galvanized	**4X955**	2000
28°	Wire	3½ in	Smooth	0.131 in	Coated	**5X390**	2000
28°	Wire	3½ in	Smooth	0.131 in	Thickcoat Galvanized	**4X956**	2000

4Z782

48LR62

BOSTITCH SENCO

Pneumatic Coil Roofing Nailers and Nails

These nailers feature depth-of-drive adjustment for added versatility. 4Z782 has contact trip trigger and magnesium housing for durability. Features fixed exhaust, single-action canister, rubber housing pads that prevent sliding, and tool-free shingle gauge. Hardened nose with carbide inserts resists wear. 48LR62 features an innovative firing valve that reduces air consumption without a reduction in speed or power. Includes an adjustable and removable shingle guide.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Straight								
15°	Wire	¾ in to 1 ¾ in	0.120 in	120	4.9 lb	Bostitch	RN46-1	**4Z782**
Angled								
15°	Wire	¾ in to 1 ¾ in	0.120 in	120	5.2 lb	Senco	ROOFPRO 445XP	**48LR62**

L	Mfr. Model	Item No.	Pkg. Qty.
Bostitch® Smooth, 15°, 0.12 in Shank Dia.			
1 in	CR2DGAL	**5W012**	7200
1 ¼ in	CR3DGAL	**2W762**	7200
1 ½ in	CR4DGAL	**2W763**	7200
1 ¾ in	CR5DGAL	**2W764**	7200
Senco® Smooth, 0°, 0.12 in Shank Dia.			
1 ¼ in	M003104	**21U158**	7200
Senco® Smooth, 15°, 0.120 in Shank Dia.			
⅞ in	M003102	**48LR64**	7200
Senco® Smooth, 15°, 0.12 in Shank Dia.			
¾ in	M003101	**48LR63**	7200
1 in	M003103	**48LR65**	7200
1 ½ in	M003105	**48LR66**	7200
1 ¾ in	M003106	**48LR67**	7200

31CC52

4Z931

SPEEDAIRE BOSTITCH SENCO

Pneumatic Coil Framing Nailers and Nails

- Aluminum housing

Quick-driving nailers are easy to handle. 31CC52 includes 5mm and 6mm hex wrenches. 4Z931 has adjustable exhaust.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Nail Gun								
15°	Wire	½ in to 3 ¼ in	0.099 in to 0.130 in	300	8.2 lb	Speedaire	31CC52	**31CC52**
15°	Wire	1 ½ in to 3 ¼ in	0.099 in to 0.120 in	300	8.4 lb	Bostitch	N80CB-1	**4Z931**
15°	Wire	2 in to 3 ½ in	0.099 in to 0.131 in	0.8182	8 lb	Senco	SCN65XP	**48LR11**

L	Shank Dia.	Shank	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Bostich®, Wire Collation Type, 15° Collation Angle, Framing Nails							
2 in	0.099 in	Smooth	Coated	Diamond	C6P99D	**5W014**	3600
2 ½ in	0.12 in	Smooth	Coated	Diamond	C8P120D	**5W016**	2700
3 in	0.12 in	Smooth	Coated	Diamond	C10P120D	**5W017**	2700
3 in	0.12 in	Smooth	Thickcoat Galvanized	Diamond	C10P120DG	**3HZH6**	2700
3 ¼ in	0.12 in	Smooth	Coated	Diamond	C12P120D	**5W018**	2700
3 ¼ in	0.12 in	Smooth	Thickcoat Galvanized	Diamond	C12P120DG	**3HZH7**	2700
Bostich®, Wire Collation Type, 15° Collation Angle, Siding Nails							
2 ½ in	0.099 in	Ring	Coated	Blunt Diamond	C8R99BD	**3HZJ3**	3600
2 ½ in	0.099 in	Ring	Thickcoat Galvanized	Blunt Diamond	C8R99BCG	**3HZJ2**	3600

3HZF8

BOSTITCH SENCO DUO-FAST

Pneumatic Coil Siding/ Utility Nailers and Nails

These nailers drive wire and plastic-sheet collated nails and have adjustable depth of drive. 3HZF8 features tool-free adjustable exhaust and soft rubber foot. 21U132 has a trigger to select the operation mode.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Angled								
15°	Wire	1¼ in to 2½ in	0.080 in to 0.090 in	300 to 350	4.7 lb	Bostitch	N66C-1	**3HZF8**
15°	Wire	1¼ in to 2½ in	0.082 in to 0.113 in	250 to 375	5.1 lb	Senco	SCN49XP	**21U132**

Length	Shank Dia.	Shank	Finish	Mfr. Model	Item No.	Pkg. Qty.
Bostitch, Wire Collation, 15° Coil Siding/Utility Nails						
1 ⅜ in	0.100 in	Spiral	Mechanically Galvanized	C4DCSBALG	**5KNH6**	3600
2 in	0.092 in	Ring	Thickcoat Galvanized	C6R90BDG	**3HZH8**	3600
2 3⁄16 in	0.09 in	Ring	Thickcoat Galvanized	C7R90BDG	**3HZH9**	3600
2 ½ in	0.09 in	Ring	Thickcoat Galvanized	C8R90BDG	**3HZJ1**	3600
Duo-Fast, Plastic Collation, 0° Coil Siding/Utility Nails						
1 ⅞ in	0.086 in	Ring	Hot Dipped Galvanized	650392	**6KVX2**	3600
2 ¼ in	0.092 in	Ring	Hot Dipped Galvanized	650394	**6KVX3**	3600
Senco 15° Full Round Shank Coil Siding/Utility Nails						
2 ¼ in	0.092 in	Smooth	Electro Galvanized	ED23AABH	**48LP97**	3600
2 ¼ in	0.092 in	Smooth	Hot Dipped Galvanized	EJ23ASBC	**48LP98**	3600
Senco 15° Ring Shank Coil Siding/Utility Nails						
1 ¾ in	0.092 in	Ring	Hot Dipped Galvanized	EL19ASBH	**21U147**	3600
2 in	0.092 in	Ring	Hot Dipped Galvanized	EL21ASBH	**21U148**	3600

48LP96

SENCO

Pneumatic Pallet Nailer and Nails

Features high load capacity and an adjustable nail canister that accepts nails up to 2¼". Has a rugged driver and piston bumper for long life, and side steel wear plates for added housing protection. Ideal for boxes, crates, and pallet applications.

Collation Angle	Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Wt.	Mfr. Model	Item No.
Angled							
15°	Wire	1 in to 2¼ in	0.082 in to 0.092 in	0.8571	5.9 lb	PALLETPRO57FXP	**48LP96**

Length	Shank Dia.	Shank	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Wire Collation Type, 15° Collation Angle Framing Nails							
2 ¼ in	0.092 in	Ring	Hot Dipped Galvanized	Diamond	EL23ASBH	**48LP99**	3600

2UV91

Palm Nailer
6AWD0

SENCO BOSTITCH Milwaukee

Pneumatic Palm Nailers

Magnetic nose helps ensure accurate nail placement. Kit 2UV91 includes nailer with standard nose, finish nail and large bore noses, leather comfort glove, nose and hex wrenches, tool lubricant, and spare O-rings.

Cordless—Drives as many as 100 nails on a single charge. Includes battery, charger, carrying case, and hand strap.

Description	Shank Dia.	Tool Wt.	Brand	Mfr. Model	Item No.
Pneumatic					
Nail Gun	0.113 in to 0.148 in	2.4 lb	Senco	A20 HAND NAILER	**48LR20**
Palm Nailer Kit	Up to 0.160 in	2.9 lb	Bostitch	PN100K	**2UV91**
Palm Nailer					
Cordless Palm Nailer Kit	0.080 to 0.160 in	3.4 lb	Milwaukee	2458-21	**6AWD0**
Repair Kit for Palm Nailer					
For Use with 2UV91			Bostitch	120965	**1XPY3**

SENCO BOSTITCH

21U159

Pneumatic Concrete Nailers and Nails

For installing carpet edge molding, floor underlayment, metal drywall track, tackless carpet strip, and wood furring. 21U159 high-speed nailer has high-capacity magazine, reducing reload time. Aluminum housing.

Collation Type	Fastener Range	Shank Dia.	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Nail Gun							
Plastic	½ in to 1½ in	0.109 in to 0.118 in	42	7.1 lb	Senco	SCP40XP	**48LR30**
Glue	⅝ in to 2¼ in	0.097 in	66	7.5 lb	Bostitch	MIII812CNCT	**21U159**

L	Mfr. Model	Item No.	Pkg. Qty.
Concrete Nails			
Bostitch			
9/16 in	BT484GXH-2.5M	**21U160**	2500
⅝ in	BT461XH-2.5M	**21U162**	2500
¾ in	BT488XH-2.5M	**21U163**	2500
1 ⅛ in	BT490XH-2.5M	**21U164**	2500
1 ½ in	BT471XH-2.5M	**21U167**	2500
Senco			
¾ in	W3075YXC	**48LR31**	1000
1 in	W3100YXC	**48LR32**	1000
1 ¼ in	W3125YXC	**48LR33**	1000

4WK99

SENCO BOSTITCH

Pneumatic Flooring Stapler/Nailer and Staples/Nails

Use to install hardwood flooring without hammer marks. Rubber mallet included.

Gauge	Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Flooring Staplers							
15 ½	½ in	1½ to 2 in	92	11.2 lb	Bostitch	MIIIFS	**4WK99**
Flooring Nailer							
16	—	1½" to 2"	107	10.1 lb	Senco	SHF200	**48LR45**

Gauge	Crown	Head Style	L	Finish	Point Type	For Use With	Mfr. Model	Item No.	Pkg. Qty.
Flooring Staples									
Bostitch									
15.5 ga	½ in	Crown	1 ½ in	Coated	Chisel	Mfr. No. MIIIFS	BCS1512	**4WK93**	9600
15.5 ga	½ in	Crown	1 ¾ in	Coated	Chisel	Mfr. No. MIIIFS	BCS1514	**4WK94**	7720
15.5 ga	½ in	Crown	2 in	Coated	Chisel	Mfr. No. MIIIFS	BCS1516	**3HZK4**	7728
Senco									
15.5 ga	½ in	Crown	1 ½ in	Electro Galvanized	Chisel	Mfr. No. SHFS200	FL17BAB	**48LR42**	5200
15.5 ga	½ in	Crown	1 ¾ in	Electro Galvanized	Chisel	Mfr. No. SHFS200	FL19BAB	**48LR43**	5200
Flooring Nails									
Senco									
16 ga	—	L-Head	1 ½ in	Bright	Blunt Diamond	Mfr. No. SHF200	RW17BPE	**48LR46**	1000
16 ga	—	L-Head	1 ¾ in	Bright	Blunt Diamond	Mfr. No. SHF200	RW19BPE	**48LR47**	1000
16 ga	—	L-Head	2 in	Bright	Blunt Diamond	Mfr. No. SHF200	RW21BPE	**48LR48**	1000

3HZG1

BOSTITCH SENCO

Pneumatic Upholstery Staplers and Staples

3HZG1 has auto-fire feature, long magazine, and 2-function trigger with light squeeze. 48LR37 has a short trigger stroke and is designed not to snag or scuff fabric. The rear exhaust system keeps oil from staining the upholstery.

Crown	Leg Length	Magazine Cap.	Tool Wt.	Brand	Mfr. Model	Item No.
Upholstery Staplers						
½ in	5/32 to 9/16"	156	1.8 lb	Bostitch	21680B-ALM	**3HZG1**
½ in	¼ in to ½ in	0.5729	2.1 lb	Senco	SFT10XP	**48LR37**

Crown	L	Finish	Point Type	Brand	Mfr. Model	Item No.	Pkg. Qty.
Upholstery Staples							
½ in	5/16 in	Coated	Chisel	Bostitch	BA-38008LS	**3HZK2**	21000
½ in	5/16 in	Electro Galvanized	Chisel	Senco	F05BAAP	**48LR38**	24000
½ in	⅜ in	Coated	Chisel	Bostitch	BA-38010LS	**3HZK3**	18000
½ in	⅜ in	Electro Galvanized	Chisel	Senco	F06BAAP	**48LR39**	24000
½ in	½ in	Electro Galvanized	Chisel	Senco	F08BAAP	**48LR40**	15000

48LR01

SENCO

Pneumatic Carton Closing Stapler and Staples

Powerful tool can handle hard and dense material, and provides added strength for larger butt joints. Suitable for joint fastening in box, crate, pallet, truss, and wood assembly.

Leg Length	Crown	Magazine Cap.	Tool Weight	Mfr. Model	Item No.
Corrugated Fastener					
¼ in to ½ in	1 in	80	6.9 lb	SC2 SENCOR	**48LR01**

Leg Length	Crown	Gauge	Mfr. Model	Item No.	Pkg. Qty.
Staples					
¼ in	1 in	25 ga	X04NRA	**48LR03**	8000
½ in	1 in	25 ga	X08NRA	**48LR02**	4000
⅜ in	1 in	25 ga	X06NRA	**48LR04**	5000

31CC54

SPEEDAIRE SENCO

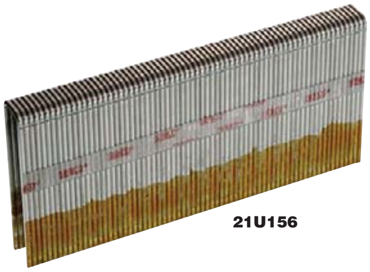
Pneumatic 16-Ga. Construction Staplers

Staples are sold separately, this page.

Speedaire—Features a top-loading magazine for fast loading and adjustable depth control. Tool has a 360° adjustable exhaust port and a comfortable rubber handle.

Senco—48LR68 allows fast multidirectional stitching and has EZ-Clear feature that reduces downtime due to fastener jams.

Crown	Leg Length	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
Staple Gun						
7⁄16 in	1 in to 2 in	160	4.6 lb	Senco	SNS41	**48LR68**
1 in	½ in to 1½ in	160	5.5 lb	Speedaire	31CC54	**31CC54**



21U156

SENCO

16-Ga. Construction Staples

These chisel point staples can be used with a variety of stapler brands and models.

Crown	L	Finish	Mfr. Model	Item No.	Pkg. Qty.
7⁄16 in	1 ½ in	Bright	N17BRB	**21U152**	10000
	1 ½ in	Class 1 Galvanized	N17BAB	**21U153**	10000
	1 ¼ in	Electro Galvanized	N15BAB	**48LR28**	10000
	2 in	Class 1 Galvanized	N21BAB	**21U154**	10000
	2 in	Bright	N21BRB	**21U155**	10000
1 in	⅝ in	Class 1 Galvanized	P10BAB	**21U156**	10000
	¾ in	Electro Galvanized	P11BAB	**48LR24**	10000
	1 ¼ in	Class 1 Galvanized	P15BAB	**21U157**	10000
	1 ½ in	Electro Galvanized	P17BAB	**48LR26**	10000
	1 in	Galvanized	P13BAB	**485W37**	10000
	2 in	Electro Galvanized	P21BAB	**48LR27**	5000

45YJ65

BOSTITCH

PORTER CABLE

Pneumatic 18-Ga. Finish Staplers

Bostitch—Tool-free access to drive channel, over-molded grip, dry-fire lockout, and rear exhaust. Oil-free. Fastener is sequential-trip release.

Porter Cable—Features toolless depth-of-drive adjustment and split nose design, helps removal of jammed staples. Convenient low staple reload indicator alerts you when to reload magazine. Magnesium body.

Crown	Leg Length	Magazine Cap.	Tool Weight	Brand	Mfr. Model	Item No.
7⁄32 in	½ to 1½ in	100	3 lb	Bostitch	SX1838K	**3FWY4**
¼ in	½ in to 1½ in	100	2.6 lb	Porter Cable	NS150C	**45YJ65**

BOSTITCH SENCO

18-Ga. Finish Staples

These staples can be used with a variety of stapler brands and models.

Crown	L	Finish	Point Type	Mfr. Model	Item No.	Pkg. Qty.
Bostitch®						
7⁄32 in	½ in	Coated	Chisel	SX50351/2G-7M	**3RCY7**	7000
	¾ in	Coated	Chisel	SX5035 3/4G	**4WL11**	5000
	1 in	Coated	Chisel	SX50351G	**4YF10**	5000
	1 ¼ in	Coated	Chisel	SX5035 1-1/4G	**4YF08**	3000
	1 ⅜ in	Coated	Chisel	SX50351-3/8G	**4WL09**	3000
Senco®						
¼ in	1 in	Galvanized	Chisel	L13BABN	**21U149**	5000
	1 ¼ in	Galvanized	Chisel	L15BAB	**21U150**	5000
	1 ½ in	Galvanized	Chisel	L17BAB	**21U151**	5000

SPEEDAIRE® · Chicago Pneumatic · Ingersoll Rand

Pneumatic Impact Wrenches

- Max. psi: 90
- Butterfly throttles on in-line units allow 1-handed forward and reverse control
- Max. torque is in reverse

Light- and general-duty wrenches are best for automotive, basic maintenance, and light production applications. General-Duty Kit 1FYV1 includes 2Z747 impact wrench, 4-oz. bottle of air tool oil, quick coupler, male plug, 3" extension, carrying case, and ½", 9⁄16", ⅝", ¾", and ⅞" sockets. 21AA49 features exhaust and handle with grip. 21AA50 has front exhaust and handle without grip.

Note: For Impact Sockets, Mini and Light Duty Wrenches and Kits, go to Grainger.com.

2Z747

45GG13

46Z433

13E913

21AA57

39D663

5LA70

21AA52

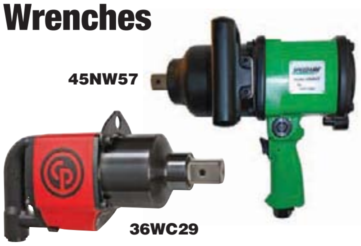
Style	Retainer Type	Fastening Torque	Breakaway Torque	Air Inlet	Anvil	Brand	Mfr. Model	Item No.
¼ in Square								
General Duty								
Pistol Grip	Ball Detent	75 ft-lb	75 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA44	**21AA44**
Light Duty								
Inline	Friction Ring	59 ft-lb	81 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7711	**48FX80**
⅜ in Square								
General Duty								
Pistol Grip	Friction Ring	100 ft-lb	100 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA45	**21AA45**
	Friction Ring	150 ft-lb	180 ft-lb	¼ in NPT	Standard	Ingersoll Rand	212	**4Z623**
	Friction Ring	190 ft-lb	200 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP724H	**11C921**
	Friction Ring	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115QTIMAX	**20CK92**
	Friction Ring	295 ft-lb	295 ft-lb	¼ in NPT	Standard	Speedaire	45NW48	**45NW48**
	Friction Ring	300 ft-lb	415 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7729	**11C937**
	Friction Ring	400 ft-lb	400 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA47	**21AA47**
	Pin Detent	295 ft-lb	295 ft-lb	¼ in NPT	Standard	Speedaire	45NW49	**45NW49**
Inline	Friction Ring	65 ft-lb	90 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7722	**11C936**
	Friction Ring	75 ft-lb	75 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA46	**21AA46**
	Friction Ring	80 ft-lb	80 ft-lb	¼ in NPT	Standard	Speedaire	45NW50	**45NW50**
	Friction Ring	200 ft-lb	200 ft-lb	¼ in NPT	Standard	Ingersoll Rand	216B	**5GEA7**
Industrial Duty								
Pistol Grip	Friction Ring	150 ft-lb	180 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP6300RSR	**11C908**
	Friction Ring	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115TiMAX	**2NCU6**
	Friction Ring	300 ft-lb	300 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA55	**21AA55**
	Pin Detent	230 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2115PTiMAX	**2NCU5**
Inline	Pin Detent	85 ft-lb	105 ft-lb	¼ in NPT	Standard	Ingersoll Rand	1702SB1	**3Y598**
	Pin Detent	125 ft-lb	125 ft-lb	¼ in NPT	Standard	Speedaire	45NW51	**45NW51**
Light Duty								
Inline	Friction Ring	59 ft-lb	81 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7721	**48FX84**
½ in Square								
General Duty								
Pistol Grip	Friction Ring	250 ft-lb	250 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA48	**21AA48**
	Friction Ring	305 ft-lb	450 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7739	**11C941**
	Friction Ring	425 ft-lb	590 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231HA	**4YD62**
	Friction Ring	425 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231C	**2Z747**
	Friction Ring	425 ft-lb	1,050 ft-lb	¼ in NPT	2" Extended	Ingersoll Rand	231HA-2	**6Z917**
	Friction Ring	450 ft-lb	450 ft-lb	¼ in NPT	Standard	Ingersoll Rand	236	**5LA59**
	Friction Ring	450 ft-lb	610 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP749	**11C932**
	Friction Ring	450 ft-lb	625 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP749-2	**11C933**
	Friction Ring	500 ft-lb	500 ft-lb	¼ in NPT	Standard	Ingersoll Rand	244A	**4Y348**
	Friction Ring	500 ft-lb	625 ft-lb	¼ in NPT	Standard	Ingersoll Rand	232TGSL	**3YY33**
	Friction Ring	520 ft-lb	955 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7749	**11C942**
	Friction Ring	520 ft-lb	955 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP7749-2	**11C943**
	Friction Ring	550 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	231CK	**1FYV1**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA49	**21AA49**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA50	**21AA50**
	Friction Ring	600 ft-lb	600 ft-lb	⅜ in NPT Female	2" Extended	Speedaire	21AA53	**21AA53**
	Friction Ring	870 ft-lb	900 ft-lb	¼ in NPT Female	Standard	Ingersoll Rand	2235QTiMAX	**45JW68**
	Friction Ring	900 ft-lb	930 ft-lb	¼ in NPT Female	2" Extended	Ingersoll Rand	2235TiMAX-2	**45JW67**
	Friction Ring	900 ft-lb	1,350 ft-lb	¼ in NPT Female	Standard	Ingersoll Rand	2235TiMAX	**45GG13**
Industrial Duty								
Pistol Grip	Friction Ring	320 ft-lb	450 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP9541	**11C995**
	Friction Ring	332 ft-lb	300 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2125QTiMAX	**24K077**
	Friction Ring	570 ft-lb	665 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP7736	**45GF57**
	Friction Ring	570 ft-lb	665 ft-lb	¼ in NPT	2" Extended	Chicago Pneumatic	CP7736-2	**45GF58**
	Friction Ring	600 ft-lb	600 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA58	**21AA58**
	Friction Ring	780 ft-lb	780 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA56	**21AA56**
	Pin Detent	251 ft-lb	332 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2125PTiMAX	**2NCU7**
	Pin Detent	275 ft-lb	450 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2707P1	**4Z254**
	Pin Detent	350 ft-lb	500 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2906P1	**3Y582**
	Pin Detent	500 ft-lb	500 ft-lb	¼ in NPT	Standard	Speedaire	45NW52	**45NW52**
	Pin Detent	502 ft-lb	625 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP6500RS	**11C909**
	Pin Detent	553 ft-lb	700 ft-lb	¼ in NPT	Standard	Chicago Pneumatic	CP8252-P	**46Z434**
	Pin Detent	600 ft-lb	600 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2705P1	**4Z942**
	Pin Detent	930 ft-lb	930 ft-lb	¼ in NPT	Standard	Ingersoll Rand	2235PTIMAX	**52JG38**
¾ in Square								
General Duty								
Pistol Grip	Friction Ring	500 ft-lb	500 ft-lb	¼ in NPT Female	Standard	Speedaire	21AA51	**21AA51**
	Friction Ring	700 ft-lb	1,000 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP772H	**11C938**
	Friction Ring	950 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP7763	**11C944**
	Friction Ring	1,050 ft-lb	1,050 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	259	**5LAN7**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	261	**5LA58**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	3" Extended	Ingersoll Rand	261-3	**5LA69**
	Friction Ring, Through Hole	950 ft-lb	1,200 ft-lb	⅜ in NPT	6" Extended	Chicago Pneumatic	CP7763-6	**11Z513**
	Friction Ring, Through Hole	1,150 ft-lb	1,150 ft-lb	⅜ in NPT	Standard	Speedaire	45NW53	**45NW53**
	Friction Ring, Through Hole	1,150 ft-lb	1,150 ft-lb	⅜ in NPT	3" Extended	Speedaire	45NW54	**45NW54**
Industrial Duty								
Pistol Grip	Friction Ring	900 ft-lb	1,100 ft-lb	⅜ in NPT	Square	Chicago Pneumatic	CP6060-P15R	**42NX07**
	Friction Ring	1,250 ft-lb	1,360 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2161XP	**4UJL2**
	Friction Ring	1,400 ft-lb	1,400 ft-lb	⅜ in NPT Female	Standard	Speedaire	21AA57	**21AA57**
	Friction Ring, Through Hole	922 ft-lb	1,217 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP8272-D	**46Z433**
	Friction Ring, Through Hole	1,100 ft-lb	1,350 ft-lb	⅜ in NPT Female	Standard	Ingersoll Rand	2145QIMAX	**13E913**
	Through Hole	600 ft-lb	100 ft-lb	⅜ in NPT	—	Ingersoll Rand	1720P1	**4Z255**
	Through Hole	900 ft-lb	1,100 ft-lb	⅜ in NPT	Square	Chicago Pneumatic	CP6060-P15H	**42NX06**
	Through Hole	1,300 ft-lb	1,600 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2925RBP1TI	**3YU97**
1 in Square								
General Duty								
Pistol Grip	Friction Ring	950 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP7773	**11C945**
	Friction Ring	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	271	**5LA68**
	Friction Ring, Through Hole	1,200 ft-lb	1,200 ft-lb	⅜ in NPT	Standard	Speedaire	45NW58	**45NW58**
	Friction Ring, Through Hole	1,475 ft-lb	1,475 ft-lb	½ in NPT	Standard	Ingersoll Rand	295A	**5LA60**
	Friction Ring, Through Hole	2,000 ft-lb	2,000 ft-lb	½ in NPT	Standard	Speedaire	45NW56	**45NW56**
D-Handle	Friction Ring	900 ft-lb	1,400 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP797-6	**11C958**
	Friction Ring	1,600 ft-lb	1,600 ft-lb	½ in NPT Female	Standard	Speedaire	21AA52	**21AA52**
	Friction Ring	1,600 ft-lb	1,600 ft-lb	½ in NPT Female	7" Extended	Speedaire	21AA54	**21AA54**
	Friction Ring, Through Hole	1,253 ft-lb	1,770 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP7783-6	**42OA29**
	Friction Ring, Through Hole	1,253 ft-lb	1,770 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7783	**42OA30**
	Friction Ring, Through Hole	1,475 ft-lb	1,475 ft-lb	½ in NPT	6" Extended	Ingersoll Rand	285B-6	**5LA70**
	Friction Ring, Through Hole	1,475 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7782	**39D663**
	Friction Ring, Through Hole	1,475 ft-lb	1,920 ft-lb	½ in NPT	6" Extended	Chicago Pneumatic	CP7782-6	**39D664**

CONTINUED

CONTINUED

Style	Retainer Type	Fastening Torque	Breakaway Torque	Air Inlet	Anvil	Brand	Mfr. Model	Item No.
1 in Square (Cont.)								
Industrial Duty								
Pistol Grip	Friction Ring, Through Hole	1,100 ft-lb	1,350 ft-lb	½ in NPT Female	Standard	Ingersoll Rand	2155QIMAX	**52JG37**
	Friction Ring, Through Hole	1,530 ft-lb	1,770 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP7776	**38VJ42**
	Friction Ring, Through Hole	1,550 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6910-P24	**42NX14**
	Through Hole	900 ft-lb	1,100 ft-lb	⅜ in NPT	Standard	Chicago Pneumatic	CP6070-P15H	**45RA81**
	Through Hole	1,400 ft-lb	2,000 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP796	**11C957**
	Through Hole	1,450 ft-lb	1,600 ft-lb	⅜ in NPT	Standard	Ingersoll Rand	2925P3TI	**3YU98**
	Through Hole	1,600 ft-lb	1,600 ft-lb	½ in NPT	Standard	Speedaire	45NW57	**45NW57**
	Through Hole	1,650 ft-lb	2,500 ft-lb	½ in NPT	Standard	Ingersoll Rand	3940P2Ti	**1FYD6**
	Through Hole	1,800 ft-lb	2,800 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP0611PRS	**11C892**
D-Handle	Friction Ring, Through Hole	1,550 ft-lb	1,920 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6920-D24	**42NX15**
	Friction Ring, Through Hole	1,600 ft-lb	1,600 ft-lb	½ in NPT	Standard	Speedaire	45NW59	**45NW59**
	Through Hole	1,000 ft-lb	1,350 ft-lb	½ in NPT	Standard	Ingersoll Rand	1712B2	**3Y596**
	Through Hole	1,650 ft-lb	2,500 ft-lb	½ in NPT	Standard	Ingersoll Rand	3940B2TI	**1FYD5**
	Through Hole	1,800 ft-lb	2,800 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP0611-D28H	**42NX04**
1 ½ in Square								
D-Handle	Through Hole	3,400 ft-lb	3,400 ft-lb	¾ in NPT	Standard	Speedaire	45NW55	**45NW55**
	Through Hole	3,900 ft-lb	5,000 ft-lb	½ in NPT	Standard	Ingersoll Rand	3955B2TI	**1FYD4**
	Through Hole	4,055 ft-lb	5,900 ft-lb	½ in NPT	Standard	Chicago Pneumatic	CP6135-D80	**36WC29**

Pneumatic Impact Wrenches


45NW57
36WC29

45NW45

5LA63

11C948

Air Ratchets

- Max. psi: 90
- Air inlet: ¼"
- Min. hose size: ⅜"

All feature ball detent for easy socket change, reversible operation, ball and needle bearing construction, and lever throttle for variable speed control. 5LA66 has a push-button throttle.

Light-Duty Kit 48MA09—Includes ratchet wrench 48LZ90, 3" extension bar, (16) impact sockets, 13/16" spark plug.

Fastening Torque	Free Speed	L	Side to Center	Brand	Mfr. Model	Item No.
¼ in Square						
General Duty						
20 ft-lb	240 RPM	6 5/16"	9/16 in	Speedaire	21AA60	**21AA60**
25 ft-lb	250 RPM	7 5/16"	1 ½ in	Ingersoll Rand	105-D2	**5LAN0**
	250 RPM	8⅜"	1 ½ in	Ingersoll Rand	105-L2	**5LAN2**
30 ft-lb	350 RPM	5¼"	9/16 in	Speedaire	21AA59	**21AA59**
40 ft-lb	220 RPM	7 21/32"	11/16 in	Speedaire	45NW45	**45NW45**
Industrial Duty						
30 ft-lb	300 RPM	7¼"	1 3/16 in	Ingersoll Rand	1105MAX-D2	**5LAN3**
Light Duty						
18 ft-lb	250 RPM	6½"	—	Speedaire	48LZ94	**48LZ94**
Light Duty, Mini						
30 ft-lb	200 RPM	7¾"	¾ in	Speedaire	21AA62	**21AA62**
⅜ in Square						
General Duty						
20 ft-lb	240 RPM	6 5/16"	9/16 in	Speedaire	21AA61	**21AA61**
25 ft-lb	250 RPM	7 5/16"	1 ⅜ in	Ingersoll Rand	105-D3	**5LAN1**
50 ft-lb	150 RPM	10"	¾ in	Chicago Pneumatic	CP828	**11C962**
	150 RPM	10"	⅞ in	Speedaire	21AA63	**21AA63**
	150 RPM	10"	13/16 in	Speedaire	21AA64	**21AA64**
54 ft-lb	160 RPM	11"	1 ½ in	Ingersoll Rand	107XPA	**5LA63**
76 ft-lb	220 RPM	12"	2 in	Ingersoll Rand	109XPA	**5LA67**

Fastening Torque	Free Speed	L	Side to Center	Brand	Mfr. Model	Item No.
General Duty, Mini Ratchet						
27 ft-lb	270 RPM	5 7/64"	½ in	Chicago Pneumatic	CP9427	**11C993**
Industrial Duty						
20 ft-lb	275 RPM	7 13/32"	⅝ in	Speedaire	45YY11	**45YY11**
30 ft-lb	300 RPM	7¼"	1 7/16 in	Ingersoll Rand	1105MAX-D3	**5LAN4**
65 ft-lb	220 RPM	10¾"	1 ⅝ in	Ingersoll Rand	1207MAX-D3	**5LAN5**
70 ft-lb	200 RPM	11½"	13/16 in	Speedaire	45YY12	**45YY12**
	225 RPM	9 13/16"	¾ in	Chicago Pneumatic	CP7829	**48FX87**
80 ft-lb	200 RPM	10"	⅞ in	Speedaire	21AA65	**21AA65**
90 ft-lb	190 RPM	12"	¾ in	Chicago Pneumatic	CP7830Q	**11C949**
110 ft-lb	180 RPM	10⅝"	15/16 in	Speedaire	45NW46	**45NW46**
Light Duty						
50 ft-lb	150 RPM	10½"	—	Speedaire	48LZ90	**48LZ90**
Light Duty, Mini						
18 ft-lb	240 RPM	5½"	—	Speedaire	10D236	**10D236**
Light Duty Kit						
50 ft-lb	150 RPM	10½"	—	Speedaire	48MA09	**48MA09**
½ in Square						
General Duty						
50 ft-lb	150 RPM	10"	¾ in	Chicago Pneumatic	CP828H	**11C963**
	150 RPM	10"	13/16 in	Speedaire	21AA66	**21AA66**
54 ft-lb	160 RPM	11"	1 ½ in	Ingersoll Rand	1077XPA	**5LA64**
76 ft-lb	220 RPM	12"	1 7/16 in	Ingersoll Rand	1099XPA	**5LA66**
Industrial Duty						
65 ft-lb	220 RPM	10¾"	1 ½ in	Ingersoll Rand	1207MAX-D4	**5LAN6**
70 ft-lb	180 RPM	10"	13/16 in	Speedaire	21AA67	**21AA67**
	225 RPM	9 13/16"	¾ in	Chicago Pneumatic	CP7829H	**48FX86**
	200 RPM	11½"	13/16 in	Speedaire	45YY13	**45YY13**
90 ft-lb	190 RPM	12"	¾ in	Chicago Pneumatic	CP7830HQ	**11C948**
110 ft-lb	180 RPM	10⅝"	15/16 in	Speedaire	45NW47	**45NW47**
Light Duty						
90 ft-lb	150 RPM	14"	—	Speedaire	48LZ98	**48LZ98**

HYTORC® The World's Most Trusted Industrial Bolting Systems

Precision Pneumatic Torque Wrenches

21HF01

- Max. psi: 90

Deliver accurate torque with low vibration. Models feature lightweight high-strength aluminum alloy construction and safety mechanism. FRL unit required (sold separately).

Style	Max. Torque	Average CFM @ 15-sec. Run Time	CFM @ Full Load	Retainer Type	Mfr. Model	Item No.
Pistol Grip	250 ft-lb	9.80	30.0	Through Hole	J-A.25-SP	**21HF01**
	500 ft-lb	9.80	30.0	Through Hole	J-A.5-SP	**21HF02**
	1,225 ft-lb	9.80	30.0	Through Hole	J-A1-SP	**21HF03**
	3,025 ft-lb	9.80	30.0	Through Hole	J-A3-SP	**21HF04**
	5,050 ft-lb	9.80	30.0	Through Hole	J-A5-SP	**21HF05**
	8,000 ft-lb	9.80	30.0	Through Hole	J-A8	**21HF06**

Air Tool Combination Kit

Popular air tool for general maintenance, automotive repair, and metalworking.

Description	Item No.
7-Pc. Mechanic's Wrench/Ratchet Kit, Includes (5) Sockets (½, 9/16, ⅝, ¾, and ⅜ to ½ in Adapter), 107XPA Air Ratchet, 231C Impact Wrench, Blow-Molded Case	**5LA54**

Pneumatic Nut Runners

- Required psi: 90
- Min. hose size: ¼" (45NW63 is ⅜")

Provide fast screw/nut rundown and removal. 90° angle heads allow access to tight locations.

Note: For more pneumatic nut runners, see Grainger.com®.

1FYP7

45NW63

Drive Size	Torque Range	Drive System	Free Speed	CFM @ Full Load	Air Inlet	Base to Top	Overall Length	Brand	Mfr. Model	Item No.
⅜ in Square	15 to 110 in-lb	Reversible Cushion Clutch	600 RPM	—	¼ in NPT	—	13 ⅛ in	Ingersoll Rand	5RLN2C6	**1FYP7**
	25 to 100 in-lb	Reversible Cushion Clutch	1,400 RPM	—	¼ in NPT	—	13 ⅛ in	Ingersoll Rand	7RLL2C6	**1FYP8**
	44 to 156 in-lb	Reversible Auto Shutoff	770 RPM	19.4	⅜ in NPT	5 ⅞ in	13 ⅞ in	Speedaire	45NW63	**45NW63**
	55.2 to 100.8 in-lb	Auto Shut Off	850 RPM	27.0	¼ in NPT	1 ⅞ in	18 ⅜ in	Ingersoll Rand	QA4ASLS015NP41S06	**436P31**
	88.8 in-lb	Auto Shut Off	625 RPM	27.0	¼ in NPT	1 ⅞ in	13 ½ in	Ingersoll Rand	QA4AALS020NP25S06	**436P27**
½ in Square	88.8 in-lb	Auto Shut Off	300 RPM	64.7	½ in NPT	1 ⅞ in	17 ⅞ in	Ingersoll Rand	9RSQ83	**436P76**

Air Drills

- Required psi: 90
- Air inlet: ¼" NPT

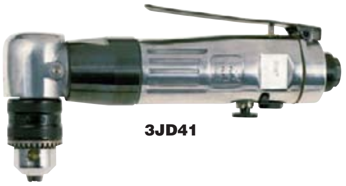
Note: For drill bits, see page 2249.

Ingersoll Rand Drill Kit 1XFG8—Includes 22-pc. drill bit and driver set.

Speedaire General-Duty Drill Kit 12V744—Includes chuck key, 7 drill bits, 17 driver bits, 3 slotted bits, 2 adaptors, and plastic case.

10D234

5KB25



3JD41

21AA79

21AA77

Chuck Size	HP	Free Speed	Drill Chuck Type	Handle Material†	Variable Speed	Average cfm*	Min. Hose Size	Overall Length	Brand	Mfr. Model	Item No.
Light-Duty Kit											
Mini Pistol Grip											
¼ in	—	1,875 RPM	Keyed	C	Yes	4.05	⅜ in	7⅝ in	Ingersoll Rand	7804KA	**1XFG8**
Light-Duty											
Mini, Non-Reversible, Pistol Grip											
⅜ in	0.4	2,000 RPM	Keyed	C	Yes	3.50	⅜ in	8¼ in	Speedaire	10D240	**10D240**
Mini Reversible											
¼ in	0.25	2,600 RPM	Keyed	C	No	3.37	⅜ in	5¾ in	Speedaire	10D234	**10D234**
Mini Reversible Pistol Grip											
¼ in	—	1,875 RPM	Keyed	C	Yes	1.90	⅜ in	7⅝ in	Ingersoll Rand	7804XPA	**12T590**
Reversible Pistol Grip											
⅜ in	0.5	2,000 RPM	Keyed	ARG	No	6.60	⅜ in	7¼ in	Speedaire	48MA04	**48MA04**
½ in	0.5	500 RPM	Keyed	ARG	No	6.00	⅜ in	9 in	Speedaire	48MA03	**48MA03**
General-Duty Kit											
Pistol Grip											
¼ in	0.29	2,000 RPM	Keyed	C	Yes	3.50	⅜ in	8¼ in	Speedaire	12V744	**12V744**
Reversible Pistol Grip											
7/16 in	0.5	2,600 RPM	Quick Change	C	Yes	6.00	⅜ in	7¼ in	Speedaire	45YY30	**45YY30**
Right-Angle Lever Throttle											
¼ in	0.3	2,700 RPM	Threaded	C	Yes	3.00	⅜ in	8 13/64 in	Speedaire	45YY28	**45YY28**
General-Duty											
Pistol Grip											
⅜ in	0.5	2,000 RPM	Keyed	A	Yes	4.00	⅜ in	7⅞ in	Ingersoll Rand	7802A	**5LA56**
	0.5	2,000 RPM	Keyless	A	Yes	4.00	⅜ in	7⅞ in	Ingersoll Rand	7802AKC	**5LA71**
	0.5	2,600 RPM	Keyless	C	No	4.00	⅜ in	7⅜ in	Speedaire	21AA68	**21AA68**
	0.5	2,600 RPM	Keyed	C	No	4.00	⅜ in	7⅜ in	Speedaire	21AA69	**21AA69**
	0.5	3,800 RPM	Keyed	A	Yes	4.75	⅜ in	7 in	Ingersoll Rand	728JA1	**3Y520**
½ in	0.5	500 RPM	Keyed	A	Yes	4.10	⅜ in	7¾ in	Chicago Pneumatic	CP785H	**11C950**
	0.5	500 RPM	Keyless	A	Yes	4.00	⅜ in	8¾ in	Ingersoll Rand	7803AKC	**20CK94**
	0.5	500 RPM	Keyed	A	Yes	4.00	⅜ in	9 in	Ingersoll Rand	7803A	**20CK93**
	0.5	950 RPM	Keyed	A	Yes	4.75	⅜ in	8½ in	Ingersoll Rand	728NA3	**3Y518**
Reversible Pistol Grip											
⅜ in	0.5	1,800 RPM	Keyless	ARG	No	4.00	⅜ in	7¼ in	Speedaire	21AA72	**21AA72**
	0.5	1,800 RPM	Keyed	ARG	No	4.00	⅜ in	7¼ in	Speedaire	21AA73	**21AA73**
	0.5	1,800 RPM	Keyed	C	No	4.00	⅜ in	7⅝ in	Speedaire	21AA70	**21AA70**
	0.5	1,800 RPM	Keyless	C	No	4.00	⅜ in	7⅝ in	Speedaire	21AA71	**21AA71**
	0.5	2,000 RPM	Keyless	A	Yes	4.00	⅜ in	7½ in	Ingersoll Rand	7802RAKC	**5KB24**
	0.5	2,000 RPM	Keyed	A	Yes	4.00	⅜ in	7½ in	Ingersoll Rand	7802RA	**5KB23**
½ in	0.5	400 RPM	Keyless	ARG	No	4.00	⅜ in	8¾ in	Speedaire	21AA74	**21AA74**
	0.5	500 RPM	Keyless	A	Yes	4.00	⅜ in	8¾ in	Ingersoll Rand	7803RAKC	**5LA72**
	0.5	500 RPM	Keyed	A	Yes	4.00	⅜ in	8¾ in	Ingersoll Rand	7803RA	**5KB25**
	0.5	800 RPM	Keyless	A	No	4.00	⅜ in	8¼ in	Speedaire	21AA75	**21AA75**
	0.5	800 RPM	Keyless	C	No	4.00	⅜ in	8⅝ in	Speedaire	21AA76	**21AA76**
Right-Angle Lever Throttle											
⅜ in	0.33	1,800 RPM	Keyed	A	Yes	4.00	⅜ in	8⅛ in	Ingersoll Rand	7807R	**3JD41**
	0.5	1,500 RPM	Keyed	A	No	4.00	⅜ in	8 in	Speedaire	21AA79	**21AA79**
Straight Lever Throttle											
¼ in	0.5	2,600 RPM	Keyless	A	Yes	4.00	⅜ in	8¼ in	Speedaire	21AA77	**21AA77**
⅜ in	0.5	22,000 RPM	Keyed	A	Yes	4.00	⅜ in	7⅞ in	Speedaire	21AA78	**21AA78**
Industrial-Duty											
Pistol Grip											
¼ in	0.25	2,800 RPM	Keyed	A	Yes	3.00	¼ in	6¼ in	Ingersoll Rand	1AL1	**3YU91**
	0.33	3,800 RPM	Keyed	A	Yes	3.00	¼ in	6¼ in	Ingersoll Rand	1P38ST4	**3YU90**
	0.4	4,500 RPM	Keyed	ARG	Yes	4.25	¼ in	6⅞ in	Ingersoll Rand	5AJST4	**3Y543**
	0.5	2,400 RPM	Keyed	A	Yes	4.70	⅜ in	6¾ in	Chicago Pneumatic	CP1014P24	**40P203**
	0.5	2,400 RPM	Keyed	A	Yes	4.70	⅜ in	6¾ in	Chicago Pneumatic	CP1014P33	**40P204**
	0.5	2,400 RPM	Keyed	A	Yes	5.30	⅜ in	6¾ in	Chicago Pneumatic	CP1014P45	**40P205**
⅜ in	0.38	1,000 RPM	Keyed	ARG	Yes	4.25	¼ in	8⅛ in	Ingersoll Rand	5ANST6	**3Y540**
	0.5	500 RPM	Keyed	A	Yes	4.70	⅜ in	7¾ in	Chicago Pneumatic	CP1014P05	**40P202**
	0.75	3,200 RPM	Keyed	ARG	Yes	6.25	5/16 in	7⅝ in	Ingersoll Rand	7AKST6	**3Y513**
	1.0	2,600 RPM	Keyless	A	Yes	7.40	⅜ in	7⅞ in	Chicago Pneumatic	CP1117P26	**40P208**
	1.0	3,200 RPM	Keyless	A	Yes	7.40	⅜ in	7⅞ in	Chicago Pneumatic	CP1117P32	**40P209**
	1.0	6,000 RPM	Keyless	A	Yes	7.40	⅜ in	7⅞ in	Chicago Pneumatic	CP1117P60	**40P210**
½ in	0.5	450 RPM	Keyed	A	Yes	6.00	⅜ in	8⅝ in	Speedaire	45YY14	**45YY14**
	0.75	600 RPM	Keyed	ARG	Yes	6.25	5/16 in	8¾ in	Ingersoll Rand	7AQST8	**3Y509**
	0.75	900 RPM	Keyed	ARG	Yes	6.25	⅜ in	8¾ in	Ingersoll Rand	7ANST8	**3Y510**
	1.0	500 RPM	Keyless	A	Yes	7.40	⅜ in	8 in	Chicago Pneumatic	CP1117P05	**40P206**
	1.0	900 RPM	Keyless	A	Yes	7.40	⅜ in	8 in	Chicago Pneumatic	CP1117P09	**40P207**
Reversible Pistol Grip											
⅜ in	0.4	2,000 RPM	Keyed	ARG	Yes	4.25	¼ in	6¼ in	Ingersoll Rand	5RALST6	**3Y535**
	0.5	2,600 RPM	Keyed	A	Yes	6.00	⅜ in	7¼ in	Speedaire	45YY15	**45YY15**
	0.5	4,200 RPM	Keyed	ARG	Yes	7.50	⅜ in	7 in	Chicago Pneumatic	CP789R-42	**11C953**
7/16 in	0.5	2,600 RPM	Quick Change	A	Yes	6.00	⅜ in	7¼ in	Speedaire	45YY29	**45YY29**
½ in	0.4	500 RPM	Keyed	ARG	Yes	7.50	⅜ in	8 in	Chicago Pneumatic	CP789HR	**11C952**
	0.4	900 RPM	Keyed	ARG	Yes	4.25	¼ in	8⅜ in	Ingersoll Rand	5RANST8	**3Y531**
	0.5	450 RPM	Keyed	A	Yes	6.00	⅜ in	8⅝ in	Speedaire	45YY16	**45YY16**
Right-Angle Lever Throttle											
¼ in	0.3	2,700 RPM	Threaded	A	Yes	3.00	⅜ in	8 13/64 in	Speedaire	45YY27	**45YY27**
⅜ in	0.3	4,000 RPM	Keyed	A	Yes	3.00	⅜ in	7⅜ in	Speedaire	45YY17	**45YY17**
½ in	0.75	600 RPM	Keyed	A	Yes	6.50	¼ in	11⅛ in	Ingersoll Rand	7LN3A44	**3Y508**

** Avg. cfm is based on a 15-sec. run time. † A = Aluminum, ARG = Aluminum with Rubber Grip, C = Composite.*

Inline 3Y475

Electric Screwdrivers

¼" reversing screwdrivers feature standard precision shut-off clutch. Operate on 115VAC and require control module. 3Y475 and 3JD53 have 2 clutch springs to cover torque range. 3Y477 has pistol-grip handle.

Max. Torque	Free Speed (rpm)	Handle Type	Control Module Req.	Tool Length	Mfr. Model	Item No.
Screwdrivers						
9 in-lb	500 to 650	Inline	Mfr. No. 3Y470	8 ⅞ in	ES50T	**3Y475**
10.44 in-lb	500 to 700	Inline	Mfr. No. 3JD50	9 ¼ in	EL1007B	**3JD53**
17 in-lb	1000	Inline	Direct Plug in	10 in	ES60P	**3Y474**
16 in-lb	2000	Inline	Direct Plug in	10 in	ES90P	**3Y472**
26 in-lb	700	Inline	Direct Plug in	10 in	ES70P	**3Y473**
40 in-lb	400	Pistol Grip	None	10 in	ES100P	**3Y477**
Control Modules						
Control Module For Use with 3Y475					ESCB50	**3Y470**
Control Module For Use with 3JD53					EC24N	**3JD50**

Ingersoll Rand · SPEEDAIRE

Pneumatic Impact Screwdrivers

4UJH3

45NW64

- Required psi: 90
- Air inlet: ¼" NPT
- Min. hose size: ⅜"
- Use ¼" hex bits
- Integrated power regulator
- Reversible
- Lift bail included

Ergonomic screwdrivers feature extremely durable impact mechanism that delivers high-speed reactionless power capable of handling high cycle rate assembly applications.

Torque Range Soft Draw	Free Speed	Throttle Type	Average cfm*	CFM @ Full Load	Overall Length	Brand	Mfr. Model	Item No.
Inline								
44 to 124 in-lb	13,500 RPM	Lever	—	—	9 ¼ in	Ingersoll Rand	QiS14Q4	**4UJH3**
178 to 239 in-lb	12,000 RPM	Lever	7.00	26.0	9 ½ in	Ingersoll Rand	QiS30Q4	**4UJH4**
Pistol								
10 to 85 ft-lb	8,800 RPM	Trigger	5.00	20.0	6 in	Speedaire	45NW64	**45NW64**
55 ft-lb	14,500 RPM	Trigger	—	—	8 ¼ in	Ingersoll Rand	2101XPA-QC	**12T592**

** Avg. cfm is based on a 15-sec. run time.*

Ingersoll Rand · Chicago Pneumatic · SPEEDAIRE

Pneumatic Screwdrivers

3YU87

11C895

12V743

3JD32

11C894

45NW62

Torque Range Soft Draw	Free Speed	Throttle Type	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Air Inlet	Overall Length	Brand	Mfr. Model	Item No.
Adjustable Cushion Clutch									
Inline									
1.5 to 30.0 in-lb	1,000 RPM	Push to Start	5.00	13.0	⅛ in NPT	8 ¾ in	Ingersoll Rand	1RPNC1	**3YU87**
	1,000 RPM	Lever	—	—	⅛ in NPT	8 ¾ in	Ingersoll Rand	1RLNC1	**3YU88**
2.5 to 20.0 in-lb	1,650 RPM	Push to Start	5.00	13.0	⅛ in NPT	8 ¾ in	Ingersoll Rand	1RPMC1	**3YU86**
9.6 to 25.2 in-lb	2,000 RPM	Lever	4.00	16.0	¼ in NPT	9 in	Chicago Pneumatic	CP783	**42NX41**
13 to 75 in-lb	1,000 RPM	Lever	4.00	16.0	¼ in NPT	10 ¾ in	Ingersoll Rand	5RLNC1	**3Y529**
20 to 110 in-lb	1,200 RPM	Lever	10.00	27.0	¼ in NPT	12 in	Ingersoll Rand	7RLMC1	**3Y506**
30 to 70 in-lb	1,800 RPM	Lever	4.00	16.0	¼ in NPT	9 ½ in	Speedaire	21AA81	**21AA81**
30 to 95 in-lb	800 RPM	Lever	4.00	16.0	¼ in NPT	10 ¼ in	Speedaire	21AA80	**21AA80**
Pistol Grip									
1.5 to 30.0 in-lb	1,000 RPM	Trigger and Push to Start	5.00	13.0	⅛ in NPT	8 ½ in	Ingersoll Rand	1RANC1	**3YU89**
13 to 35 in-lb	2,000 RPM	Trigger	4.00	17.0	¼ in NPT	8 ¾ in	Ingersoll Rand	5RALC1	**3Y538**
20 to 110 in-lb	1,000 RPM	Lever	10.00	27.0	¼ in NPT	10 ½ in	Ingersoll Rand	7RAMC1	**3Y507**
Adjustable Shut-Off Clutch									
Inline									
2.7 to 30.1 in-lb	1,000 RPM	Push to Start	5.00	13.0	⅛ in NPT	8 ¾ in	Ingersoll Rand	1RPNS1	**3YU84**
2.7 to 45.1 in-lb	500 RPM	Push to Start	5.00	13.0	⅛ in NPT	8 ¾ in	Ingersoll Rand	1RPQS1	**3YU85**
Pistol Grip									
2.7 to 30.1 in-lb	1,000 RPM	Trigger and Push to Start	3.45	13.0	⅛ in NPT	8 ½ in	Ingersoll Rand	1RTNS1	**24K078**
Direct Drive Clutch									
Pistol Grip									
45 to 65 in-lb	2,200 RPM	Trigger	2.50	29.7	¼ in NPT	6 ¼ in	Chicago Pneumatic	CP2755	**11C895**
79.2 in-lb	900 RPM	Trigger	2.50	29.7	¼ in NPT	7 in	Chicago Pneumatic	CP2765	**11C896**
Positive Action Clutch									
Pistol Grip									
20 to 115 in-lb	800 RPM	Trigger	4.00	29.0	¼ in NPT	7 ⅜ in	Speedaire	45NW60	**45NW60**
	2,200 RPM	Lever	—	—	¼ in NPT	7 ⅜ in	Speedaire	12V743	**12V743**
47.1 to 115 in-lb	1,800 RPM	Trigger	4.00	29.0	¼ in NPT	7 ¼ in	Ingersoll Rand	371	**3JD32**
88.8 in-lb	2,100 RPM	Trigger	2.50	29.7	¼ in NPT	6 ½ in	Chicago Pneumatic	CP2780	**11C897**
Positive Jaw Clutch									
Inline									
20 to 40 in-lb	1,800 RPM	Lever	3.00	12.0	¼ in NPT	9 ¼ in	Speedaire	48LZ89	**48LZ89**
Pistol Grip									
19 to 35 in-lb	2,000 RPM	Trigger	4.00	17.0	¼ in NPT	7 ¼ in	Ingersoll Rand	5RALP1	**3Y536**
39 to 70 in-lb	900 RPM	Trigger	4.00	17.0	¼ in NPT	8 in	Ingersoll Rand	5RANP1	**3Y532**
Precision Shut-Off Clutch									
Inline									
3.5 to 13 in-lb	1,100 RPM	Push to Start	2.10	8.5	¼ in NPT	7 ¾ in	Chicago Pneumatic	CP2003	**11Z508**
7 to 58 in-lb	1,000 RPM	Push to Start	5.25	30.1	¼ in NPT	9 in	Chicago Pneumatic	CP2621	**11C894**
Pistol Grip									
8.9 to 66 in-lb	1,000 RPM	Trigger	5.25	21.0	¼ in NPT	9 ¼ in	Chicago Pneumatic	CP2611	**11C893**
11 to 65 in-lb	1,000 RPM	Trigger	4.80	19.4	⅜ in	8 ⅝ in	Speedaire	45NW61	**45NW61**
	1,000 RPM	Trigger and Push to Start	4.80	19.4	⅜ in	8 ⅝ in	Speedaire	45NW62	**45NW62**
Shut-Off Clutch									
Inline									
13 to 35 in-lb	2,100 RPM	Trigger	—	—	¼ in NPT	12 ¾ in	Ingersoll Rand	5RLLC1	**4Z262**
13 to 70 in-lb	900 RPM	Trigger	—	—	¼ in NPT	12 ¾ in	Ingersoll Rand	5RANC1	**4Z261**

† Full load cfm is based on a 1-min. run time.

- Max. psi: 90
- Reversible
- ¼" quick-change bit holder included

Adjustable Cushion Clutch—Controls torque output to the bit. Straight handle units come with suspension bails.

Direct Drive Clutch—General duty for large and medium screws.

Positive Action Clutch—Standard-duty, for use with soft-draw applications. Variable-speed throttle. Through-handle exhaust.

Positive Jaw Clutch—Clutch engages when the operator starts the motor and presses the tool toward the fastener. Designed for applications where driving torque may exceed final seating torque.

Precision Shut-Off Clutch—Designed for precision torque applications. Units come with suspension bails.

POP® Avdel® · SPEEDAIRE

Pneumatic Thread Inserters

52VF50

3CRH8

- Air Inlet: ¼"
- Min. hose size: ⅜"

Spin-pull-to-pressure technology allows insert setting for varying application thicknesses without the need for adjustment. Push-to-thread on mandrel allows automatic reversing and unthreading when insert is set. Pop Avdel models do not include mandrels, nosepieces, or adapters; see Grainger.com.

Stroke Length	Pulling Force	For Rivet Nut Thread Size	Max. Pressure	Construction	L	Tool Weight	Brand	Mfr. Model	Item No.
¼ in	6,000 lbf	#10-24, #10-32, #8-32, ½"-13, ¼"-20, ⅜"-16, 5⁄16"-18	95 psi	Composite	11 3⁄16 in	5.1 lb	Speedaire	3CRH8	**3CRH8**
⅜ in	6,555 lbf	½"-13, ¼"-20, ⅜"-16, 5⁄16"-18, M10, M12, M6, M8	87 psi	Aluminum	12 ⅖ in	6.11 lb	Pop Avdel	PNT1000L-PC-T	**2NJP5**
1 in	3,200 lbf	M10, M3, M4, M5, M6, M8	90 psi	Aluminum	10 in	4.9 lb	Pop Avdel	74202-00003	**52VF50**

3CRH3

33E885

443Z74

Pneumatic and Battery-Operated Riveters

Air operated and produce higher compression force, speed installation, and reduce hand fatigue and injuries compared to hand-operated riveting tools. Can set uniform rivets in any position.

General-Duty—2-pc. jaw system increases jaw traction. Internal vacuum for 45RM38 holds mandrel in position for any-angle tool operation.

Industrial-Duty—40G468 includes battery and charger. 3CRH6 and 3CRH7 have internal vacuum, holding mandrel in place for any-angle tool operation.

Industrial-Duty with Mandrel Collection System—Quick-disconnect allows components to be serviced without tools. Swivel air fitting reduces air consumption with On/Off switch.

Pulling Force	Blind Rivet Dia. - Aluminum (in.)	Stroke Length	Air Inlet	Max. Pressure	Construction	Length	Tool Weight	Brand	Mfr. Model	Item No.
General-Duty										
Pneumatic										
1,940 lbf	3/32, 1/8, 5/32, 3/16	9/16 in	1/4 in NPT Female	100 psi	Aluminum	9 1/8 in	3.3 lb	Speedaire	3CRH4	**3CRH4**
1,983 lbf	1/8, 5/32, 3/16	5/8 in	1/4 in NPT Female	100 psi	Aluminum	8 27/32 in	3.2 lb	Speedaire	3CRH3	**3CRH3**
2,100 lbf	3/32, 1/8, 5/32, 3/16	9/16 in	1/4 in NPT Female	95 psi	Aluminum/Composite	11 1/2 in	3.3 lb	Speedaire	45RM38	**45RM38**
2,200 lbf	3/32, 1/8, 5/32, 3/16	1 in	1/4 in NPT	90 psi	Composite	8 29/32 in	3.3 lb	Chicago Pneumatic	CP9882	**33E885**
3,500 lbf	1/4	5/8 in	1/4 in NPT	110 psi	Steel	6 in	1.75 lb	HUCK MAGNA-LOK	AK-175A	**6NCX3**
3,889 lbf	1/4	3/4 in	1/4 in NPT	110 psi	Aluminum	8 3/5 in	5.1 lb	HUCK MAGNA-LOK	202	**6NCW9**
3,993 lbf	1/4	7/8 in	1/4 in NPT	110 psi	Aluminum	9 in	6.0 lb	HUCK MAGNA-LOK	2024	**6NCX1**
5,290 lbf	1/4	11/16 in	1/4 in NPT	110 psi	Aluminum	8 2/5 in	5.75 lb	HUCK MAGNA-LOK	2025	**6NCX2**
9,986 lbf	1/4	7/8 in	1/4 in NPT	110 psi	Aluminum/Steel	8 1/2 in	12.3 lb	HUCK MAGNA-LOK	256	**6NCX0**
Industrial-Duty										
Battery Operated										
1,911 lb	3/32, 1/8, 5/32, 3/16	15/16 in	—	—	—	12 7/8 in	3.8 lb	Pop Avdel-Emhart Tek.	PB2500-NA	**40G468**
Pneumatic										
3,190 lbf	1/8, 5/32, 3/16	1 7/8 in	1/4 in NPT	90 psi	Aluminum	6 in	2.2 lb	Ingersoll Rand	AVC10A1	**24K080**
4,000 lbf	3/16, 7/32, 1/4	1 in	1/4 in NPT Female	95 psi	Aluminum	12 in	4.3 lb	Speedaire	3CRH6	**3CRH6**
5,000 lbf	3/16, 7/32, 1/4, 5/16	1 in	1/4 in NPT Female	95 psi	Aluminum	12 in	4.8 lb	Speedaire	3CRH7	**3CRH7**
Pneumatic Button Handle										
3,190 lbf	1/8, 5/32, 3/16	1 7/8 in	1/4 in NPT	90 psi	Aluminum	6 51/64 in	2.1 lb	Ingersoll Rand	AVC10C1	**24K081**
Pneumatic with Mandrel Collection										
1,900 lbf	3/32, 1/8, 5/32, 3/16	7/8 in	1/4 in NPT	90 psi	Composite	11 51/64 in	3.2 lb	Chicago Pneumatic	CP9883	**11D001**
2,320 lbf	3/32, 1/8, 5/32	1 in	1/4 in NPT	101.5 psi	Steel	9 61/64 in	2.6 lb	Pop Avdel-Emhart Tek.	76001-00003	**443Z74**
3,045 lbf	1/8, 5/32, 3/16	1 in	1/8 in NPT	101.5 psi	Steel	10 51/64 in	2.8 lb	Pop Avdel-Emhart Tek.	76002-00003	**443Z75**
3,530 lbf	5/16, 3/8	6 in	1/4 in NPT	90 psi	Aluminum	11 3/8 in	5.1 lb	Ingersoll Rand	AVC26A1	**48K601**
	3/16, 1/4	1 1/8 in	1/4 in NPT	90 psi	Composite	12 13/64 in	4.2 lb	Chicago Pneumatic	CP9884	**11D002**
4,206 lbf	5/32, 3/16, 1/4	1 in	1/4 in NPT	101.5 psi	Steel	13 33/64 in	4.7 lb	Pop Avdel-Emhart Tek.	76003-00003	**443Z76**

Bench Mount
33NY38

120° Angle
61HP17

Right Angle
23Z009

Straight
24D711

Straight Extended
4TMA9

Pneumatic Die Grinders

- Required psi: 90

Air-operated tools rotate carbide burs, mounted points, cartridge rolls, flap wheels, and other attachments for grinding, deburring, and polishing. They provide light-to-moderate material removal where an angle grinder would be too large, and a rotary tool would be too small. Suitable for reworking dies, polishing metal, removing gaskets, and smoothing welds. Grinders have no guard and are not for use in cutting applications. Tools are typically lighter than corded or cordless grinders to help reduce fatigue during extended use.

Bench Mount—Include a mounting base with an articulating arm that holds the grinder perpendicular to workpieces to make straight, square, and level grinds for precision die maintenance and repair. The arm allows the operator to guide the grinder along workpieces to remove welds and smooth rough edges more quickly and with greater accuracy than traditional hand grinding. The magnetic mounting base supports the arm and attaches to a metal die, mold, or worktable.

120° Angle—Grinding head is angled to the tool body for grinding angled slots and in other extremely tight spaces where a right-angle tool won't fit.

Right Angle—The grinding head is set 90° to the tool body for working in corners, between surfaces, and in other tight spaces. Commonly used to grind and clean hubs, notches, and recesses.

Straight—Grinding head is in line with the tool body and has a slim profile to reach through openings where an angled head may not fit. This alignment makes it easier to apply pressure to the grinding head for greater control with detailed work.

Straight Extended—Have additional length to ease work in hard-to-reach areas.

HP	Max. Speed	Collet Size	Overall Length	Switch Type	Exhaust Location	Brand	Item No.
Bench Mount, Heavy Duty, 1/4 in MNPT Air Inlet							
0.4	20,000 RPM	1/4 in	37 3/8 in	Lever	Rear	Flexarm	**33NY38**
0.4	20,000 RPM	1/4 in	49 in	Lever	Rear	Flexarm	**33NY39**
120° Angle, Medium Duty, 1/4 in MNPT Air Inlet							
0.5	18,000 RPM	1/4 in	7 1/8 in	Lever	Rear	Speedaire	**45NW66**
120° Angle, Heavy Duty, 1/4 in FNPT Air Inlet							
0.3	23,000 RPM	1/4 in	7 3/4 in	Safety Lever	Rear	Chicago Pneumatic	**61HP17**
Right Angle, Light Duty, 1/4 in FNPT Air Inlet							
0.4	20,000 RPM	1/4 in	6 in	Lever	Rear	Speedaire	**12V739**
Right Angle, Medium Duty, 1/4 in FNPT Air Inlet							
0.2	17,000 RPM	1/4 in	4 3/4 in	Trigger	Rear	Chicago Pneumatic	**11C980**
0.3	15,000 RPM	1/4 in	6 7/8 in	Safety Lever	Rear	Viking Air Tools	**29CK37**
0.3	18,000 RPM	1/4 in	6 1/2 in	Safety Lever	Rear	Dynabrade	**703N73**
0.3	18,000 RPM	6 mm	6 1/2 in	Safety Lever	Rear	Dynabrade	**703N74**
0.3	20,000 RPM	1/4 in; 6mm	6 7/8 in	Safety Lever	Rear	Ingersoll Rand	**23Z009**
0.3	21,000 RPM	1/4 in; 6mm	5 1/4 in	Safety Lever	Front	Ingersoll Rand	**23Z008**
0.3	23,000 RPM	1/4 in	6 in	Lever	Rear	Cleco	**24D743**
0.3	25,000 RPM	1/4 in	6 1/8 in	Safety Lever	Rear	Viking Air Tools	**29CK36**
0.4	12,000 RPM	1/4 in	6 5/8 in	Lever	Front	Cleco	**60UP30**
0.4	13,000 RPM	1/4 in	7 3/4 in	Safety Lever	Rear	Speedaire	**12V741**
0.4	20,000 RPM	1/4 in	6 1/2 in	Variable-Speed	Rear	Speedaire	**21AA82**
0.4	21,000 RPM	1/4 in	7 3/4 in	Safety Lever	Rear	Speedaire	**12V742**
0.5	14,000 RPM	1/4 in	7 1/8 in	Safety Lever	Rear	Dynabrade	**703N75**
0.5	14,000 RPM	6 mm	7 1/8 in	Safety Lever	Rear	Dynabrade	**703N76**
Right Angle, Medium Duty, 1/4 in MNPT Air Inlet							
0.5	18,000 RPM	1/4 in	6 3/4 in	Lever	Rear	Speedaire	**45NW65**
Right Angle, Heavy Duty, 1/4 in FNPT Air Inlet							
0.3	23,000 RPM	1/4 in	6 3/8 in	Safety Lever	Rear	Chicago Pneumatic	**61HP16**
0.4	4,500 RPM	1/4 in	6 1/2 in	Lever	Rear	Dynabrade	**25H891**
0.4	12,000 RPM	1/4 in	6 in	Safety Lever	Rear	Ingersoll Rand	**1TDH7**
0.4	12,000 RPM	1/4 in	6 3/4 in	Safety Lever	Rear	Ingersoll Rand	**4TMA5**
0.4	12,000 RPM	1/4 in	8 in	Lever	Rear	Dynabrade	**25H924**
0.4	15,000 RPM	1/4 in; 6mm	6 1/2 in	Lever	Rear	Dynabrade	**25H897**
0.4	20,000 RPM	1/4 in	6 in	Safety Lever	Rear	Ingersoll Rand	**1TDH1**
0.4	20,000 RPM	1/4 in	6 in	Lever	Rear	Speedaire	**45YY31**
0.4	20,000 RPM	1/4 in	6 5/8 in	Lever	Front	Dotco	**24D716**
0.4	20,000 RPM	1/4 in; 6mm	6 3/4 in	Safety Lever	Rear	Ingersoll Rand	**4TMA6**
0.4	20,000 RPM	1/4 in; 6mm	8 in	Lever	Rear	Dynabrade	**25H905**
0.4	20,000 RPM	1/4 in; 6mm	8 in	Lever	Rear	Dynabrade	**25H906**
0.4	25,000 RPM	1/4 in	6 1/8 in	Safety Lever	Rear	Chicago Pneumatic	**22P505**
0.4	25,000 RPM	1/4 in; 6mm	7 1/4 in	Lever	Rear	Dynabrade	**25H896**
0.4	25,000 RPM	1/4 in; 6mm	9 in	Lever	Rear	Dynabrade	**25H898**
0.4	25,000 RPM	1/4 in	11 3/4 in	Lever	Rear	Dynabrade	**25H892**
0.4	30,000 RPM	1/4 in	5 7/8 in	Safety Lever	Rear	Chicago Pneumatic	**22P484**
0.4	30,000 RPM	1/4 in	6 1/8 in	Safety Lever	Rear	Chicago Pneumatic	**22P488**
0.5	12,000 RPM	1/4 in	8 1/2 in	Safety Lever	Rear	Chicago Pneumatic	**45TX47**
0.5	15,000 RPM	1/4 in; 6mm	6 in	Lever	Front	Dynabrade	**25H844**
0.5	18,000 RPM	1/4 in	6 3/4 in	Safety Lever	Rear	Chicago Pneumatic	**22P506**
0.5	20,000 RPM	1/4 in	6 3/4 in	Safety Lever	Rear	Chicago Pneumatic	**22P507**
0.5	20,000 RPM	1/4 in	8 1/2 in	Safety Lever	Rear	Chicago Pneumatic	**36WC46**
0.5	24,000 RPM	1/4 in	6 3/4 in	Safety Lever	Rear	Chicago Pneumatic	**22P489**
0.5	25,000 RPM	1/4 in; 6mm	6 in	Lever	Front	Dynabrade	**25H843**
0.5	25,000 RPM	1/4 in; 6mm	6 in	Lever	Front	Dynabrade	**25H845**
0.7	20,000 RPM	1/4 in	6 3/4 in	Safety Lever	Rear	Chicago Pneumatic	**22P490**
0.7	20,000 RPM	1/4 in; 6mm	8 1/8 in	Lever	Rear	Dynabrade	**25H833**
0.7	20,000 RPM	1/4 in; 6mm	8 1/8 in	Lever	Rear	Dynabrade	**25H834**

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Pneumatic Die Grinders

FlexArm SPEEDAIRE Chicago Pneumatic VIKING DYNABRADE Ingersoll Rand Cleco DOTCO

HP	Max. Speed	Collet Size	Overall Length	Switch Type	Exhaust Location	Brand	Item No.
Right Angle, Heavy Duty, ⅜ in FNPT Air Inlet							
0.8	13,000 RPM	¼ in	8 ⅝ in	Safety Lever	Rear	Chicago Pneumatic	36WC50
1	12,000 RPM	¼ in; 6mm	9 in	Safety Lever	Rear	Ingersoll Rand	45JW88
1	18,000 RPM	¼ in; 6mm	9 in	Safety Lever	Rear	Ingersoll Rand	45JW73
1.5	12,000 RPM	¼ in	9 ¾ in	Safety Lever	Rear	Chicago Pneumatic	54XT94
Straight, Light Duty, ¼ in FNPT Air Inlet							
0.2	25,000 RPM	¼ in	5 in	Lever	Rear	Speedaire	10D235
Straight, Medium Duty, ¼ in FNPT Air Inlet							
0.3	25,000 RPM	¼ in, ⅛ in	5 in	Safety Lever	Front	Speedaire	48LZ93
0.3	25,000 RPM	¼ in	6 ⅜ in	Safety Lever	Rear	Dynabrade	703N69
0.3	25,000 RPM	¼ in	6 in	Lever	Front	Cleco	60UP17
0.3	25,000 RPM	¼ in	6 in	Lever	Rear	Cleco	60UP21
0.3	25,000 RPM	¼ in; 6mm	6 ⅞ in	Safety Lever	Rear	Ingersoll Rand	23Z011
0.3	25,000 RPM	6 mm	6 ⅝ in	Safety Lever	Rear	Dynabrade	703N70
0.3	26,000 RPM	¼ in	170 mm	Safety Lever	Rear	Speedaire	12V737
0.3	28,000 RPM	¼ in; 6mm	5 ¼ in	Safety Lever	Front	Ingersoll Rand	23Z010
0.3	28,000 RPM	¼ in	10 ⅞ in	Lever	Rear	Cleco	60UP18
0.3	30,000 RPM	¼ in	4 ⅝ in	Lever	Rear	Dotco	24D712
0.3	30,000 RPM	¼ in	4 ⅝ in	Lever	Front	Dotco	24D711
0.3	30,000 RPM	¼ in	6 in	Lever	Rear	Cleco	60UP20
0.3	31,000 RPM	¼ in	6 ½ in	Safety Lever	Rear	Speedaire	12V734
0.3	34,000 RPM	¼ in	6 in	Lever	Front	Dotco	24D722
0.4	21,000 RPM	¼ in	179 mm	Safety Lever	Rear	Speedaire	12V735
0.4	26,000 RPM	¼ in	7 in	Safety Lever	Rear	Speedaire	12V736
0.5	20,000 RPM	¼ in	7 in	Safety Lever	Rear	Dynabrade	703N71
0.5	20,000 RPM	6 mm	7 in	Safety Lever	Rear	Dynabrade	703N72
0.5	22,000 RPM	¼ in	6 ¾ in	Variable-Speed	Rear	Speedaire	21AA86
0.5	22,000 RPM	¼ in	6 ⅝ in	Safety Lever	Rear	Speedaire	48LZ99
0.5	22,000 RPM	¼ in	7 ⅜ in	Variable-Speed	Rear	Speedaire	21AA87
0.5	22,000 RPM	¼ in	13 in	Variable-Speed	Rear	Speedaire	21AA85
0.5	24,000 RPM	¼ in	5 ¾ in	Lock-Off	Rear	Chicago Pneumatic	11C966
0.5	25,000 RPM	¼ in	6 ⅛ in	Lever	Front	Cleco	24D744
0.5	27,000 RPM	¼ in, 6mm	5 ⅞ in	—	Rear	Ingersoll Rand	784P19
0.6	27,000 RPM	¼ in	6 ½ in	Safety Lever	Rear	Chicago Pneumatic	401J31
0.9	23,000 RPM	¼ in	6 ¼ in	Lever	Front	Cleco	60UP19
Straight, Medium Duty, ¼ in MNPT Air Inlet							
0.5	18,000 RPM	¼ in	6 ¾ in	Lever	Rear	Speedaire	45NW67
Straight, Heavy Duty, ¼ in FNPT Air Inlet							
0.3	27,000 RPM	¼ in	9 ¾ in	Safety Lever	Rear	Chicago Pneumatic	61HP18
0.3	28,000 RPM	¼ in	6 ⅞ in	Safety Lever	Rear	Chicago Pneumatic	61HP15
0.3	28,000 RPM	¼ in	9 ⅞ in	Paddle	Front	Dotco	24D713
0.3	30,000 RPM	¼ in	6 ½ in	Safety Lever	Rear	Ingersoll Rand	4TMC1
0.4	15,000 RPM	¼ in	9 in	Lever	Rear	Dynabrade	25H903
0.4	18,000 RPM	¼ in	9 in	Lever	Rear	Dynabrade	25H902
0.4	18,000 RPM	¼ in	9 ⅞ in	Lever	Rear	Dynabrade	25H904
0.4	20,000 RPM	¼ in	6 ⅛ in	Safety Lever	Rear	Ingersoll Rand	1TDG7
0.4	20,000 RPM	¼ in; 6mm	9 ⅞ in	Lever	Rear	Dynabrade	25H945
0.4	24,000 RPM	¼ in	6 ½ in	Lever	Rear	Dynabrade	25H948
0.4	25,000 RPM	¼ in	5 ⅛ in	Lever	Front	Dynabrade	25H855
0.4	25,000 RPM	¼ in	5 ¾ in	Lever	Rear	Speedaire	45YY22
0.4	25,000 RPM	¼ in	5 ⅞ in	Safety Lever	Rear	Chicago Pneumatic	22P498
0.4	25,000 RPM	¼ in	6 ½ in	Safety Lever	Rear	Ingersoll Rand	4TMA7
0.4	25,000 RPM	¼ in	6 ⅛ in	Safety Lever	Rear	Ingersoll Rand	1TDG6
0.4	25,000 RPM	¼ in; 6mm	6 ½ in	Safety Lever	Rear	Ingersoll Rand	23Z013
0.4	25,000 RPM	¼ in; 6mm	6 ⅛ in	Lever	Front	Dynabrade	13F662
0.4	25,000 RPM	¼ in	8 in	Lever	Rear	Dynabrade	25H901
0.4	25,000 RPM	¼ in	8 in	Lever	Rear	Dynabrade	25H949
0.4	30,000 RPM	⅛ in; 3mm	5 ⅛ in	Lever	Front	Dynabrade	25H848
0.4	30,000 RPM	⅛ in; 3mm	6 in	Lever	Front	Dynabrade	25H846
0.4	30,000 RPM	¼ in	6 ⅜ in	Lever	Rear	Dynabrade	25H893
0.4	30,000 RPM	¼ in; 6mm	6 ½ in	Lever	Rear	Dynabrade	25H895
0.4	30,000 RPM	¼ in; 6mm	8 in	Lever	Rear	Dynabrade	25H899
0.4	35,000 RPM	⅛ in; 3mm	6 in	Lever	Rear	Dynabrade	25H847
0.4	35,000 RPM	¼ in	6 ⅛ in	Safety Lever	Rear	Ingersoll Rand	1TDG5
0.4	35,000 RPM	¼ in	6 ½ in	Safety Lever	Rear	Ingersoll Rand	4TMA8
0.4	35,000 RPM	¼ in; 6mm	8 in	Lever	Rear	Dynabrade	25H894
0.4	35,000 RPM	¼ in; 6mm	8 in	Lever	Rear	Dynabrade	25H947
0.5	3,500 RPM	¼ in	8 ⅝ in	Lever	Rear	Speedaire	45YY19
0.5	15,000 RPM	¼ in	7 ¾ in	Safety Lever	Rear	Chicago Pneumatic	22P499
0.5	18,000 RPM	¼ in	7 in	Lever	Front	Speedaire	45YY20
0.5	18,000 RPM	¼ in	7 in	Lever	Rear	Speedaire	45YY21
0.5	18,000 RPM	¼ in	7 ¾ in	Safety Lever	Rear	Chicago Pneumatic	22P501
0.5	20,000 RPM	¼ in	6 ¾ in	Safety Lever	Rear	Chicago Pneumatic	36WC47
0.5	20,000 RPM	¼ in; 6mm	6 in	Lever	Front	Dynabrade	25H944
0.5	20,000 RPM	¼ in	7 in	Lever	Front	Dynabrade	25H872
0.5	20,000 RPM	¼ in	7 in	Lever	Front	Dynabrade	25H873
0.5	20,000 RPM	¼ in	7 ¾ in	Safety Lever	Rear	Chicago Pneumatic	22P502
0.5	20,000 RPM	¼ in	9 ¼ in	Lever	Rear	Dynabrade	25H869
0.5	20,000 RPM	¼ in	9 ¼ in	Lever	Rear	Dynabrade	25H868
0.5	20,000 RPM	¼ in; 6mm	12 ⅞ in	Lever	Rear	Dynabrade	13F665
0.5	20,000 RPM	¼ in; 6mm	12 ⅞ in	Lever	Rear	Dynabrade	13F670
0.5	20,000 RPM	¼ in	17 ⅞ in	Lever	Rear	Dynabrade	13F671
0.5	24,000 RPM	¼ in	7 in	Lever	Front	Dynabrade	25H874
0.5	24,000 RPM	¼ in	7 in	Lever	Front	Dynabrade	25H871
0.5	24,000 RPM	¼ in	7 ¾ in	Safety Lever	Rear	Chicago Pneumatic	22P485
0.5	24,000 RPM	¼ in	9 ¼ in	Lever	Rear	Dynabrade	25H867
0.5	24,000 RPM	¼ in	9 ¼ in	Lever	Rear	Dynabrade	25H870
0.5	25,000 RPM	¼ in	6 ⅝ in	Safety Lever	Rear	Chicago Pneumatic	36WC48
0.5	25,000 RPM	¼ in	9 ¾ in	Safety Lever	Rear	Chicago Pneumatic	36WC49
0.5	30,000 RPM	¼ in; 6mm	6 ¾ in	Lever	Rear	Dynabrade	13F663
0.5	30,000 RPM	¼ in; 6mm	8 ¼ in	Lever	Rear	Dynabrade	25H842
0.6	22,000 RPM	¼ in	7 ⅛ in	Safety Lever	Rear	Chicago Pneumatic	61HP19
0.6	22,000 RPM	¼ in	13 in	Safety Lever	Rear	Chicago Pneumatic	61HP20
0.6	24,000 RPM	¼ in	6 ⅞ in	Lever	Side	Cleco	38NJ26
0.6	25,000 RPM	¼ in	6 ⅞ in	Lever	Front	Cleco	38NJ25
0.7	4,500 RPM	¼ in; 6mm	9 ½ in	Lever	Rear	Dynabrade	25H856
0.7	15,000 RPM	¼ in	7 ⅝ in	Safety Lever	Rear	Chicago Pneumatic	22P503
0.7	15,000 RPM	¼ in; 6mm	8 ⅛ in	Lever	Rear	Dynabrade	25H836
0.7	18,000 RPM	¼ in; 6mm	6 in	Lever	Front	Dynabrade	25H837
0.7	18,000 RPM	¼ in	7 ⅜ in	Variable-Speed	Rear	Speedaire	21AA84
0.7	18,000 RPM	¼ in	7 ⅝ in	Safety Lever	Rear	Chicago Pneumatic	22P504
0.7	18,000 RPM	¼ in; 6mm	8 ⅛ in	Lever	Rear	Dynabrade	25H835
0.7	20,000 RPM	¼ in; 6mm	6 in	Lever	Front	Dynabrade	25H930
0.7	20,000 RPM	¼ in; 6mm	6 in	Lever	Front	Dynabrade	25H943
0.7	20,000 RPM	¼ in	7 ⅝ in	Safety Lever	Rear	Chicago Pneumatic	22P486
0.7	25,000 RPM	¼ in	6 ⅜ in	Lever	Front	Cleco	38NJ24
0.7	25,000 RPM	¼ in; 6mm	6 in	Lever	Front	Dynabrade	25H841
0.7	35,000 RPM	¼ in; 6mm	13 ⅝ in	Lever	Rear	Dynabrade	13F664
0.9	18,000 RPM	¼ in	7 ⅜ in	Paddle	Front	Dotco	20AZ85
0.9	23,000 RPM	¼ in	7 ¼ in	Paddle	Front	Dotco	24D725
1	9,000 RPM	¼ in	11 ¼ in	Lever	Rear	Dynabrade	25H925
Straight, Heavy Duty, ⅜ in FNPT Air Inlet							
0.8	19,000 RPM	¼ in	8 ¾ in	Safety Lever	Rear	Chicago Pneumatic	45TX48
1	12,000 RPM	¼ in	7 ⅞ in	Lever	Rear	Dynabrade	25H926
1	12,000 RPM	¼ in; 6mm	12 ½ in	Lever	Rear	Dynabrade	25H832
1	18,000 RPM	¼ in	7 ⅞ in	Lever	Rear	Dynabrade	25H927
1	18,000 RPM	¼ in; 6mm	8 ¾ in	Lever	Rear	Dynabrade	13F681
1	18,000 RPM	¼ in; 6mm	8 ¾ in	Lever	Rear	Dynabrade	13F682
1	18,000 RPM	¼ in; 6mm	8 ⅜ in	Safety Lever	Rear	Ingersoll Rand	45JW75
1	18,000 RPM	¼ in; 6mm	10 in	Lever	Rear	Dynabrade	13F680
1	18,000 RPM	¼ in; 6mm	10 in	Lever	Rear	Dynabrade	25H929
1	18,000 RPM	¼ in	15 ⅜ in	Lever	Rear	Dynabrade	13F674
1	20,000 RPM	¼ in; 6mm	8 ⅜ in	Safety Lever	Rear	Ingersoll Rand	45EU61
1	20,000 RPM	¼ in; 6mm	10 in	Lever	Rear	Dynabrade	25H928
1	20,000 RPM	¼ in	15 ⅜ in	Lever	Rear	Dynabrade	13F675
1	20,000 RPM	¼ in; 6mm	15 ⅜ in	Lever	Rear	Dynabrade	13F673
1	25,000 RPM	¼ in	6 ¾ in	Lever	Front	Chicago Pneumatic	22P492
1	25,000 RPM	¼ in; 6mm	8 ⅜ in	Safety Lever	Rear	Ingersoll Rand	45JW89
1.2	18,000 RPM	¼ in	8 ¾ in	Safety Lever	Rear	Chicago Pneumatic	36WC51
1.2	18,000 RPM	¼ in	14 ¼ in	Safety Lever	Rear	Chicago Pneumatic	36WC52
1.4	18,000 RPM	¼ in	14 ½ in	Lever	Side	Cleco	38NJ23
Straight Extended, Medium Duty, ¼ in FNPT Air Inlet							
0.4	25,000 RPM	¼ in	9 ⅝ in	Safety Lever	Rear	Ingersoll Rand	4TMA9
0.5	24,000 RPM	¼ in	11 ¾ in	Lock-Off	Rear	Chicago Pneumatic	36WC43
Straight Extended, Heavy Duty, ¼ in FNPT Air Inlet							
0.4	25,000 RPM	¼ in	9 ⅛ in	Safety Lever	Rear	Ingersoll Rand	1TDG4
1.3	15,000 RPM	¼ in	15 ½ in	Safety Lever	Side	Ingersoll Rand	3Y525
1.4	18,000 RPM	¼ in	14 ⅛ in	Safety Lever	Rear	Ingersoll Rand	1TDG2
Straight Extended, Heavy Duty, ⅜ in FNPT Air Inlet							
1	7,500 RPM	¼ in; 6mm	12 in	Safety Lever	Rear	Ingersoll Rand	45JW83
1	18,000 RPM	¼ in; 6mm	13 ⅛ in	Safety Lever	Rear	Ingersoll Rand	45JW84
1	20,000 RPM	¼ in; 6mm	13 ⅛ in	Safety Lever	Rear	Ingersoll Rand	45JW86
1	25,000 RPM	¼ in	12 ⅝ in	Lever	Side	Chicago Pneumatic	22P493
1	25,000 RPM	¼ in; 6mm	13 ⅛ in	Safety Lever	Rear	Ingersoll Rand	45JW87

Horsepower	Max. Speed	Overall Length	Kit Contents	Brand	Item No.
Kits					
Right Angle, Light Duty					
0.4 hp	18,000 RPM	6 in	(1) Bare Tool, (5) Abrasive Wheels	Speedaire	12V738
Right Angle, Medium Duty					
0.3 hp	21,000 RPM	5 ¼ in	(1) Bare Tool, (10) Abrasive Stones	Ingersoll Rand	23Z014
0.3 hp	22,500 RPM	4 ⅞ in	(1) Bare Tool, (1) Backing Pad, (6) Sanding Discs, (6) Surface Prep Pads	Chicago Pneumatic	11C971
Right Angle, Heavy Duty					
0.4 hp	20,000 RPM	7 in	(1) Bare Tool	Ingersoll Rand	23Z012
Straight, Medium Duty					
0.3 hp	28,000 RPM	5 ¼ in	(1) Bare Tool, (10) Abrasive Stones	Ingersoll Rand	23Z015
0.5 hp	22,000 RPM	6 ½ in	(1) Bare Tool, (5) Abrasive Wheels	Speedaire	48MA01
Straight, Heavy Duty					
0.6 hp	22,000 RPM	7 ⅛ in	(1) Bare Tool, (10) Mounted Points	Chicago Pneumatic	61HP22

DYNABRADE Ingersoll Rand Chicago Pneumatic

Pneumatic Straight Wheel Grinders

- Heavy duty

25H933

11C901

For Wheel Dia.	Horsepower	Max. Speed	Spindle Thread Size	Air Inlet	Overall Length	Switch Type	Exhaust Location	Brand	Item No.
1 ½ in	1 hp	12,000 RPM	⅜"-24	⅜" FNPT	7 ¾ in	Lever	Side	Dynabrade	25H933
1 ½ in	1 hp	18,000 RPM	⅜"-24	⅜" FNPT	26 ¾ in	Lever	Rear	Dynabrade	25H946
1 ½ in	1.3 hp	12,000 RPM	⅜"-24	⅜" FNPT	14 ¾ in	Lever	Rear	Ingersoll Rand	3Y526
3 in	1 hp	18,000 RPM	⅜"-24	⅜" FNPT	13 ²³⁄₆₄ in	Lever	—	Ingersoll Rand	45JW85
3 in	1 hp	18,000 RPM	⅜"-24	⅜" FNPT	14 in	—	Rear	Chicago Pneumatic	11C901

Compact
11C934

Standard Reach
1TDH8

Extended Reach
25H858

SPEEDAIRE · Chicago Pneumatic · Ingersoll Rand · DYNABRADE

Pneumatic Angle Grinders

- Lever switch, except 1XFG5 has a trigger switch

Air-powered tools rotate grinding wheels to remove surface material or rotate cut-off wheels to cut through material. Their head is set at a right angle to the tool body so they are more than vertical grinders and allow for better visibility of the wheel and the work surface. Commonly used to grind welds, cut metal plates and pipe, and polish concrete, stone, and metal.

Compact—Have a short body with a reach up to 6" and can use small-diameter wheels for detailing work. Smaller and lighter than other angle grinders to provide a comfortable grip and reduce hand fatigue.

Standard Reach—The tool body gives them a 6" to 11" reach for grinding open surface areas where there's no need to work in tight spaces.

Extended Reach—Tool design extends the wheel from the grinder body to lengthen their reach beyond 11" for accessing surfaces within frames and machinery.

Wheel Dia.	Horsepower	Max. Speed	Overall Length	Air Inlet	Spindle Thread Size	Brand	Item No.
Compact							
Light Duty							
2 in	0.2 hp	15,000 RPM	4 ⅞ in	¼ in FNPT	¼ in-18	Speedaire	**10D232**
Medium Duty							
2 in	0.2 hp	22,000 RPM	5 ½ in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**11C934**
2 in, 3 in	0.2 hp	15,000 RPM	5 ⅜ in	¼ in FNPT	¼ in-20	Ingersoll Rand	**1XFG5**
3 in	0.5 hp	16,000 RPM	5 ¾ in	¼ in FNPT	¼ in-20	Speedaire	**12V733**
Heavy Duty							
2 in	0.4 hp	15,000 RPM	5 ¾ in	¼ in FNPT	⅜ in-24	Dynabrade	**25H932**
Standard Reach							
Medium Duty							
4 in	0.5 hp	11,000 RPM	9 in	¼ in FNPT	⅜ in-24	Speedaire	**48MA07**
4 in	0.5 hp	3,500 RPM	11 in	¼ in FNPT	M6*1	Speedaire	**22EW13**
4 in	0.7 hp	11,000 RPM	9 in	¼ in FNPT	⅜ in-24	Speedaire	**21AA89**
4 in	0.8 hp	12,000 RPM	9 ⅜ in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**20HN60**
4 ½ in	0.7 hp	11,000 RPM	9 in	¼ in FNPT	⅜ in-24	Speedaire	**21AA90**
4 ½ in	0.8 hp	12,000 RPM	9 ⅜ in	¼ in FNPT	⅝ in-11	Chicago Pneumatic	**11C985**
5 in	0.8 hp	12,000 RPM	9 ⅝ in	¼ in FNPT	⅝ in-11	Chicago Pneumatic	**11C984**
Heavy Duty							
2 ½ in	0.4 hp	12,000 RPM	6 in	¼ in FNPT	⅜ in	Speedaire	**45YY18**
3 in	0.4 hp	20,000 RPM	6 in	¼ in FNPT	⅜ in-24	Ingersoll Rand	**1TDH8**
4 in	0.6 hp	13,000 RPM	9 in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**11C965**
4 in	0.8 hp	10,000 RPM	9 ⅜ in	¼ in FNPT	⅜ in-24	Speedaire	**21AA83**
4 in	1 hp	12,000 RPM	9 ¼ in	⅜ in FNPT	⅜ in-24	Ingersoll Rand	**48UT77**
4 in	1 hp	13,500 RPM	9 ¼ in	⅜ in FNPT	⅜ in-24	Ingersoll Rand	**45JW72**
4 in	1.1 hp	12,000 RPM	9 ¼ in	⅜ in FNPT	⅜ in-24	Chicago Pneumatic	**11C899**
4 in	1.1 hp	12,000 RPM	10 ⅝ in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**48FX70**
4 in	1.3 hp	13,500 RPM	10 in	⅜ in FNPT	⅜ in-24	Dynabrade	**25H922**
4 in	1.5 hp	12,000 RPM	10 in	⅜ in FNPT	⅜ in-24	Chicago Pneumatic	**54XT91**
4 ½ in	0.9 hp	12,000 RPM	9 ⅝ in	¼ in FNPT	⅝ in-11	Ingersoll Rand	**5LAN8**
4 ½ in	1 hp	12,000 RPM	9 ¼ in	⅜ in FNPT	⅝ in-11	Ingersoll Rand	**45JW70**
4 ½ in	1.1 hp	12,000 RPM	10 ⅝ in	¼ in FNPT	⅝ in-11	Chicago Pneumatic	**48FX71**
4 ½ in	1.1 hp	12,000 RPM	10 ⅝ in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**48FX72**
4 ½ in	1.3 hp	12,000 RPM	10 in	⅜ in FNPT	⅝ in-11	Dynabrade	**13F657**
4 ½ in	1.5 hp	12,000 RPM	10 in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**54XT92**
4 ½ in	2.4 hp	12,000 RPM	9 ⅜ in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**20RH03**
4 ½ in, 5 in	0.7 hp	11,000 RPM	8 in	¼ in FNPT	⅝ in-11	Dynabrade	**25H862**
4 ½ in, 5 in	1.2 hp	12,000 RPM	8 in	½ in FNPT	⅝ in-11	Dynabrade	**25H859**
5 in	0.9 hp	12,000 RPM	9 ⅝ in	¼ in FNPT	⅝ in-11	Ingersoll Rand	**5LAN9**
5 in	1 hp	12,000 RPM	9 ¼ in	⅜ in FNPT	⅝ in-11	Ingersoll Rand	**45JW71**
5 in	1.1 hp	12,000 RPM	9 ¼ in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**11C898**
5 in	1.1 hp	12,000 RPM	10 ⅝ in	¼ in FNPT	⅝ in-11	Chicago Pneumatic	**48FX73**
5 in	1.1 hp	12,000 RPM	10 ⅝ in	¼ in FNPT	⅜ in-24	Chicago Pneumatic	**48FX74**
5 in	1.3 hp	12,000 RPM	10 in	⅜ in FNPT	⅝ in-11	Dynabrade	**13F658**
6 in	2.4 hp	10,000 RPM	9 ⅜ in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**20RH01**
Extended Reach							
Medium Duty							
7 in	1 hp	8,500 RPM	13 ¾ in	⅜ in FNPT	⅝ in-11	Speedaire	**21AA91**
Heavy Duty							
4 in	1 hp	12,000 RPM	11 ¾ in	⅜ in FNPT	⅜ in-24	Dynabrade	**25H858**
4 in	1 hp	13,500 RPM	12 ⅜ in	⅜ in FNPT	⅜ in-24	Ingersoll Rand	**45JW82**
4 in	1 hp	13,500 RPM	12 ½ in	⅜ in FNPT	⅜ in-24	Ingersoll Rand	**48UT78**
4 in	1 hp	14,500 RPM	11 ⅝ in	⅜ in FNPT	⅜ in-24	Ingersoll Rand	**45JW74**
4 ½ in	1 hp	12,000 RPM	12 ⅜ in	⅜ in FNPT	⅝ in-11	Ingersoll Rand	**45JW81**
6 in	1 hp	10,000 RPM	12 ⅜ in	⅜ in FNPT	⅝ in-11	Ingersoll Rand	**45JW80**
7 in	1.2 hp	6,000 RPM	13 ¾ in	½ in FNPT	⅝ in-11	Dynabrade	**25H864**
7 in	1.3 hp	7,500 RPM	13 ⅛ in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**32FY72**
7 in	1.5 hp	6,000 RPM	17 ⅝ in	⅜ in FNPT	⅝ in-11	Ingersoll Rand	**3Y516**
7 in	2 hp	6,000 RPM	13 ¾ in	½ in FNPT	⅝ in-11	Dynabrade	**25H863**
7 in	2.8 hp	7,700 RPM	13 ⅜ in	½ in FNPT	⅝ in-11	Chicago Pneumatic	**20RH05**
7 in	2.8 hp	8,500 RPM	13 ⅜ in	⅜ in FNPT	⅝ in-11	Chicago Pneumatic	**20RH06**

11C977

SPEEDAIRE · DOTCO · Chicago Pneumatic · DYNABRADE · Ingersoll Rand · Cleco

Pneumatic Pencil Grinders

Tools are air-powered to rotate carbide burs and mounted points to perform light material removal in detailed grinding, sculpting, deburring, and polishing tasks. Their slim, compact body allows for fine control and access to tight spaces to perform intricate, precise work. Commonly used for final cleaning, die and mold polishing, hole finishing, and contour blending.

⅛ in. Collet—This standard size collet accepts burs and mounted points with a ⅛" dia. shank.

⅛ in. Collet Pencil Grinder Kit—Includes a pencil grinder with a standard size ⅛" collet and various burs and mounted points with a ⅛" dia. shank to fit the collet.

3mm Collet Pencil Grinder Kits—Include a pencil grinder with a 3mm collet and an assortment of accessory items. A 3mm collet is the closest metric equivalent to a ⅛" collet.

Max. Speed	Air Inlet	Exhaust Location	Overall Length	Brand	Item No.
⅛ in. Collet					
Medium Duty					
56,000 RPM	¼ in FNPT	Rear	5 ¼ in	Speedaire	**21AA92**
60,000 RPM	⅛ in NPT	Rear	5 ¾ in	Dotco	**24D718**
	⅛ in NPT	Rear	5 ⅞ in	Dotco	**24D732**
	⅛ in NPT	Rear	5 ⅞ in	Dotco	**24D734**
	⅛ in NPT	Rear	5 ⅞ in	Dotco	**24D719**
	¼ in NPT	Rear	5 ¼ in	Chicago Pneumatic	**11C977**
70,000 RPM	¼ in FNPT	Rear	7 ⅛ in	Speedaire	**21AA93**
80,000 RPM	⅛ in NPT	Rear	5 ½ in	Dotco	**24D731**
100,000 RPM	⅛ in NPT	Front	5 ⅜ in	Dotco	**24D720**
Heavy Duty					
35,000 RPM	¼ in FNPT	Rear	5 ¼ in	Dynabrade	**13F652**
	¼ in FNPT	Rear	6 in	Dynabrade	**25H889**
40,000 RPM	¼ in FNPT	Rear	5 ¼ in	Dynabrade	**13F653**
50,000 RPM	¼ in FNPT	Rear	5 ¼ in	Dynabrade	**25H886**
60,000 RPM	¼ in FNPT	Front	5 ⅝ in	Ingersoll Rand	**5Z343**
	¼ in FNPT	Rear	4 ½ in	Dynabrade	**20UC99**
	¼ in FNPT	Rear	5 ¼ in	Dynabrade	**13F654**
	¼ in FNPT	Rear	5 ¼ in	Dynabrade	**25H887**
	¼ in FNPT	Rear	5 ⅜ in	Ingersoll Rand	**5Z344**
	¼ in NPT	Rear	6 in	Chicago Pneumatic	**22P487**
	¼ in FNPT	Rear	6 in	Dynabrade	**25H888**
100,000 RPM	¼ in FNPT	Rear	5 ⅜ in	Dynabrade	**13F655**

Max. Speed	Air Inlet	Exhaust Location	Overall Length	Includes	Brand	Item No.
⅛ in. Collet Pencil Grinder Kits						
Medium Duty						
60,000 RPM	¼ in NPT	Rear	5 ¼ in	(5) Carbide Burrs, (5) Mounted Points, ⅛ in and 3 mm Collets, Silencer Hose	Chicago Pneumatic	**36WC32**
3mm Collet Pencil Grinder Kits						
Medium Duty						
60,000 RPM	⅛ in NPT	Rear	5 ⅞ in	(2) Wrenches, 1 ft Overhose, Collet, Collet Guard	Dotco	**24D733**
Heavy Duty						
60,000 RPM	¼ in NPT	Rear	5 ¾ in	Applicable Collet, Collet Wrenches, Collet Guard, 5 ft. Air Supply Hose, 1 ft. Overhose	Cleco	**60UP31**
	¼ in NPT	Rear	5 ¾ in	Applicable Collet, Collet Wrenches, Collet Guard, 5 ft. Air Supply Hose, 1 ft. Overhose	Cleco	**60UP32**
	¼ in NPT	Rear	6 ¼ in	Applicable Collet, Collet Wrenches, Collet Guard, 5 ft. Air Supply Hose, 1 ft. Overhose	Cleco	**60UP33**

Pneumatic Sanders

- Required psi: 90
- Air inlet: ¼"
- Min. hose size: ⅜"

Note: See page 2370 for sanding discs.

10D238—Includes 1 each of 3", 4½", and 5" sanding pads, setting steel bar, and L-shaped wrench.

11C919—Includes: (1) Mini pistol disc sander with 3" Roloc pad, (10) 3" 80-, 100-, and 120-grit sanding discs, (1) 3" fine, medium, and coarse surface prep discs, and spindle wrench packed in a heavy-duty carrying case.

11C929 and 5KB20—Side handle fits either left or right side. Include lockout nut and wrench.

11C996—Features a rear exhaust and a pistol grip.

13F677 and 13F678—Ergonomic offset handle provides greater operator comfort and control. Gearless design reduces downtime and maintenance costs.

Industrial-Duty Right-Angle—13F686 and 13F687 rear exhaust-type sanders are for composite and fiberglass sanding. 13F659, 13F660, and 13F689 are low-profile rotational exhaust-type units with a high power-to-weight ratio and ergonomic design.1

Industrial-Duty Straight-Line—Reload easily with quick action paper clamps. 1" stroke length. Use bodyfile sanding sheets.

Industrial-Duty Vertical—Use fiber discs and come with a 7" backing pad.

Pad Size	Free Speed	HP	Pad Face Type	Arbor Hole	Spindle Size	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Exhaust Type	Handle Material**	Variable Speed	Overall Length	Brand	Mfr. Model	Item No.
Light Duty Kits														
Mini Sander Kit														
3 in to 5 in	16,000 RPM	0.4 hp	—	—	7⁄16"-20	3.5 cfm	19.7 cfm	Handle	C	Yes	5 11⁄16 in	Speedaire	10D238	**10D238**
Pistol Kit														
3 in	15,000 RPM	0.2 hp	—	—	¼"-20	10.5 cfm	21 cfm	Silent Handle	ARG	No	4 in	Chicago Pneumatic	CP7202D	**11C919**
Light Duty														
High Speed														
5½"	18,000 RPM	0.5	PSA	⅞ in	7⁄16"-20	5.7 cfm	23 cfm	Front	A	Yes	4 ½ in	Speedaire	48LZ97	**48LZ97**
Right Angle														
4 ½ in	15,000 RPM	0.55 hp	Phenolic	—	⅝"-11	8.25 cfm	33 cfm	Rear	C	No	6 in	Dynabrade	52515	**25H915**
General Duty														
Angled														
7 in	5,000 RPM	0.5 hp	—	⅝ in	⅝"-11	8 cfm	29 cfm	Rear	M	No	16 in	Ingersoll Rand	313A	**5KB20**
	5,000 RPM	0.71 hp	Plastic	⅞ in	⅝"-11	6.6 cfm	26.7 cfm	Rear	ARG	Yes	12 13⁄32 in	Chicago Pneumatic	CP7269S	**11C929**
High Speed														
3 in, 5 in	18,000 RPM	—	—	⅞ in	7⁄16"-20	12 cfm	25 cfm	Rear	M	No	4 ⅜ in	Ingersoll Rand	317A	**5KB21**
Pistol Grip														
5 in	14,000 RPM	0.5 hp	Plastic	⅞ in	7⁄16"-20	12 cfm	21 cfm	Rear	A	No	10 ½ in	Chicago Pneumatic	CP9778	**11C996**
Right Angle														
Sanding Pad	2,500 RPM	1 hp	—	¼ in	⅝"-11	—	40 cfm	Rear	GRN	—	12 17⁄32 in	Ingersoll Rand	M2L025RS10	**45JW76**
	4,000 RPM	1 hp	—	¼ in	⅝"-11	—	40 cfm	Rear	GRN	—	12 17⁄32 in	Ingersoll Rand	M2L040RS10	**45JW77**
	5,500 RPM	1 hp	—	¼ in	⅝"-11	—	40 cfm	Rear	GRN	—	12 17⁄32 in	Ingersoll Rand	M2L055RS10	**45JW78**
	7,500 RPM	1 hp	—	¼ in	⅝"-11	—	40 cfm	Rear	GRN	—	12 1⁄16 in	Ingersoll Rand	M2L075RS10	**45JW79**
Vertical														
7 in	5,000 RPM	0.71 hp	Plastic	⅞ in	⅝"-11	8 cfm	32 cfm	Rear	ARG	No	11 13⁄16 in	Chicago Pneumatic	CP7265S	**11C926**
	5,000 RPM	0.8 hp	Backing Pad	—	⅝"-11	4.8 cfm		Front	A	Yes	7 ⅜ in	Speedaire	21AA98	**21AA98**
Industrial Duty														
7° Offset														
2 in	25,000 RPM	0.4 hp	Locking	—	¼"-20	5.75 cfm	23 cfm	Rear	CRG	No	9 in	Dynabrade	48500	**25H849**
3 in	15,000 RPM	0.7 hp	Locking	—	⅜"-24	8 cfm	32 cfm	Front	C	No	6 in	Dynabrade	52410	**13F677**
	20,000 RPM	0.7 hp	Locking	—	⅜"-24	9 cfm	36 cfm	Front	C	No	6 in	Dynabrade	52412	**13F678**
High Speed														
—	20,000 RPM	0.4 hp	—	—	¼"-20	6 cfm	25 cfm	Rear	C	No	6 in	Ingersoll Rand	G1A200RS4	**1TDH5**
Mini														
2 in, 3 in	15,000 RPM	0.2 hp	Roloc-Style (3M)	—	¼ in	2.1 cfm	19.4 cfm	Through Handle	C	Yes	5 3⁄10 in	Ingersoll Rand	3103XPA	**12T589**
2 in	16,500 RPM	0.2 hp	Hook	—	M10X1.5	1.83 cfm	13.2 cfm	Rear	A	No	4 ⅞ in	Speedaire	10D233	**10D233**
3"	16,000 RPM	—	Hook-and-Loop	—	5⁄16"-24	3.5 cfm	19.7 cfm	Handle	C	Yes	4 ⅞ in	Speedaire	10D237	**10D237**
Right Angle														
—	6,000 RPM	0.6 hp	—	—	—	30 cfm		—	C	No	9 21⁄64 in	Dotco	12L2250-80	**20AZ86**
2 in	3,200 RPM	0.4 hp	Plastic for PSA discs	—	¼"-28 F	6.5 cfm	26 cfm	Rear	C	No	11 ⅜ in	Dynabrade	49410	**25H854**
	12,000 RPM	0.4 hp	Locking	—	¼"-20	5 cfm	20 cfm	Rear	C	No	9 ¾ in	Dynabrade	51230	**13F686**
	12,000 RPM	0.4 hp	Locking	—	¼"-20	6.25 cfm	25 cfm	Front	C	No	5 in	Dynabrade	47820	**25H838**
	15,000 RPM	0.4 hp	Locking	—	¼"-20	6.25 cfm	25 cfm	Front	C	No	5 in	Dynabrade	47821	**25H839**
	18,000 RPM	0.3 hp	Locking, TR Style	¼ in	½ in	18.55 cfm	18.55 cfm	Rear	ARG	No	12 in	Dynabrade	DS32	**703N77**
	18,000 RPM	0.33 hp	TR Style	—	⅜"-24	5 cfm	20 cfm	Rear	C	No	4 ½ in	Dynabrade	52590	**25H921**
	20,000 RPM	0.4 hp	Locking	—	¼"-20	5 cfm	20 cfm	Rear	C	No	9 ¾ in	Dynabrade	51232	**13F687**
	20,000 RPM	0.4 hp	Locking	—	¼"-20	6.25 cfm	25 cfm	Front	CRG	No	5 in	Dynabrade	47822	**25H840**
	20,000 RPM	0.4 hp	Locking	—	¼"-20	5.25 cfm	27 cfm	Rear	C	No	6 in	Dynabrade	48542	**25H853**
	20,000 RPM	0.4 hp	Locking	—	¼"-20	6.75 cfm	27 cfm	Rear	C	No	7 ⅜ in	Dynabrade	48522	**25H850**
3 in, 5 in	12,000 RPM	0.5 hp	—	—	⅜"-24	5.5 cfm	22 cfm	Rear	A	No	7 in	Chicago Pneumatic	CP3070-120G	**22P494**
3 in	14,000 RPM	0.5 hp	Locking, TR Style	¼ in	½ in	26.78 cfm	26.78 cfm	Rear	ARG	No	12 in	Dynabrade	DS53	**703N78**
	15,000 RPM	0.4 hp	TR Style	—	¼"-20	5.25 cfm	21 cfm	Rear	C	No	10 ½ in	Dynabrade	50561	**25H865**
	15,000 RPM	0.4 hp	Locking	—	¼"-20	5.25 cfm	21 cfm	Rear	C	No	7 ⅜ in	Dynabrade	48531	**25H851**
	15,000 RPM	0.7 hp	Locking	—	⅜"-24	8 cfm	32 cfm	Rear	C	No	8 ⅛ in	Dynabrade	52413	**25H907**
	18,000 RPM	0.7 hp	Locking	—	⅜"-24	10.25 cfm	41 cfm	Rear	C	No	8 ½ in	Dynabrade	54400	**13F683**
	20,000 RPM	0.4 hp	Locking	—	¼"-20	5.25 cfm	21 cfm	Rear	C	No	7 ⅜ in	Dynabrade	48532	**25H852**
	20,000 RPM	0.7 hp	Locking	—	⅜"-24	8.75 cfm	35 cfm	Rear	C	No	8 ⅛ in	Dynabrade	52415	**25H908**
4 ½ in to 5 in	8,000 RPM	0.7 hp	Metal Assembly	—	⅝"-11	7.5 cfm	30 cfm	Rear	C	No	6 ⅝ in	Dynabrade	50320	**25H860**
	9,000 RPM	1 hp	Thermoplastic	—	⅝"-11	9.75 cfm	39 cfm	Rear	C	No	11 11⁄16 in	Dynabrade	52562	**25H918**
	11,000 RPM	1 hp	Thermoplastic	—	⅝"-11	10.25 cfm	41 cfm	Rear	C	No	11 11⁄16 in	Dynabrade	52561	**25H917**
4 ½ in	12,000 RPM	1.3 hp	Rubber	—	⅝"-11	10.75 cfm	43 cfm	Rotational	R	No	10 in	Dynabrade	52634	**13F659**
5 in, 6 in, 8 in	3,100 RPM	0.7 hp	—	—	⅝"-11	10.25 cfm	41 cfm	Rear	C	Yes	13 in	Dynabrade	51476	**25H882**
5 in	12,000 RPM	1.3 hp	—	—	—	10.75 cfm	43 cfm	Rotational	C	No	10 in	Dynabrade	52635	**25H923**
	12,000 RPM	1.3 hp	Rubber	—	⅝"-11	10.75 cfm	43 cfm	Side	R	No	10 in	Dynabrade	52596	**13F688**
7 in	6,000 RPM	1 hp	Thermoplastic	—	⅝"-11	10 cfm	40 cfm	Rear	C	No	11 11⁄16 in	Dynabrade	52563	**25H919**
	6,000 RPM	1.3 hp	Rubber	—	⅝"-11	10 cfm	40 cfm	Rotational	R	No	10 in	Dynabrade	52657	**13F660**
	6,000 RPM	1.3 hp	Rubber	—	⅝"-11	10 cfm	40 cfm	Rotational	R	No	14 ⅝ in	Dynabrade	52597	**13F689**
	7,200 RPM	1.3 hp	Rubber	—	⅝"-11	10 cfm	40 cfm	Side	C	No	10 in	Dynabrade	52802	**25H936**
	8,500 RPM	1.3 hp	Thermoplastic	—	⅝"-11	10 cfm	40 cfm	Rotational	C	No	10 in	Dynabrade	53868	**25H951**
	8,500 RPM	2.3 hp	Hook-and-Loop	⅝ in	⅝"-11	10 cfm	42 cfm	Rear	C	Yes	9 in	Chicago Pneumatic	CP3650-085AB	**20RG99**
Straight Line														
2¾ in x 8 in	2,400 RPM	0.3 hp	Vinyl or Hook	—	—	4.5 cfm	18 cfm	Rear	R	No	8 in	Dynabrade	57400	**25H964**
2¾ in x 17½ in	5,000 RPM	—	Clip	—	—	8.5 cfm	10.7 cfm	Rear	A	Yes	16 ½ in	Chicago Pneumatic	CP7268	**11C927**
Vertical														
4 in	11,000 RPM	0.7 hp	Locking	—	⅜"-24	8 cfm	32 cfm	Rear	R	No	6 ⅝ in	Dynabrade	50324	**25H861**
4 ½ in	11,000 RPM	0.7 hp	Metal Assembly	—	⅝"-11	8 cfm	32 cfm	Rear	R	No	6 ⅝ in	Dynabrade	50321	**13F679**
7 in	6,000 RPM	0.8 hp	—	⅝ in	⅝"-11	5.5 cfm	22 cfm	Side	M	No	6 ⅜ in	Ingersoll Rand	7S60L	**3Y504**

*† Avg. cfm is based on a 1-min. run time. ** A = Aluminum, ARG = Aluminum with Rubber Grip, C = Composite, CRG = Composite with Rubber Grip, M = Metal, R = Rubber.*

Pneumatic Industrial-Duty Belt Sanders

DYNABRADE · Chicago Pneumatic · Ingersoll Rand · SPEEDAIRE

Note: See page 2364 for abrasive belts. For contact arm assemblies and tune up kits, go to Grainger.com®.

Belt Size	Free Speed	Average CFM @ 15-sec. Run Time	CFM @ Full Load†	Exhaust Type	Includes	Overall Length	Brand	Mfr. Model	Item No.
Sanders									
⅛ to ½ in W x 24 in L	20,000 RPM	7.75 cfm	31 cfm	Front	Mfg. Model 11218 Contact Arm	14 ⅝ in	Dynabrade	14000	**11X731**
⅛ to ½ in W x 12 in L	25,000 RPM	5 cfm	20 cfm	Front and Rear	Mfg. Model 15026 Contact Arm, Mfg. Model 15118 Drive Wheel	11 ¾ in	Dynabrade	15003	**11X737**
¼ to ¾ in W x 18 in L	20,000 RPM	7 cfm	28 cfm	Front	Mfg. Model 11206 Contact Arm	14 ¼ in	Dynabrade	40320	**11X733**
¼ to ¾ in W x 20½ in L	20,000 RPM	7 cfm	28 cfm	Front	Mfg. Model 11287 Contact Arm	14 ¼ in	Dynabrade	40326	**11X735**
⅜ in W x 13 in L	22,000 RPM	14 cfm	28 cfm	Rear	—	12 in	Chicago Pneumatic	CP9779	**11C997**
½ in W x 12 in L	12,000 RPM	4.75 cfm	19 cfm	Rear	—	10 ¾ in	Ingersoll Rand	G1A120RS812	**1TDH6**
½ in W x 24 in L	20,000 RPM	10.8 cfm	21.6 cfm	Rear	—	15 ⅜ in	Chicago Pneumatic	CP5080-4200D24	**22P496**
½ in W x 18 in L	20,000 RPM	10.8 cfm	21.6 cfm	Rear	—	13 ⅜ in	Chicago Pneumatic	CP5080-4200H18	**22P497**
	20,000 RPM	7 cfm	28 cfm	Front	Mfg. Model 11203 Contact Arm	14 ¼ in	Dynabrade	40335	**25H829**
½ in W x 12 in L	26,000 RPM	8.9 cfm	17.8 cfm	Rear	—	11 ⅜ in	Chicago Pneumatic	CP5080-3260D12	**22P495**
1 in W x 18 in L	22,000 RPM	13.55 cfm	27.1 cfm	Rear	—	13 ⅜ in	Chicago Pneumatic	CP5080-5220H18	**22P512**
Kits									
⅛ to ½ in W x 24 in L	20,000 RPM	7.75 cfm	31 cfm	Front	(5) Contact Arms, Assortment of Abrasive Belts, Case	14 ⅝ in	Dynabrade	14010	**11X732**
¼ to ¾ in W x 18 in L	20,000 RPM	7 cfm	28 cfm	Front	(2) Wrenches, (3) Contact Arms, (3) Platen Pads, (8) Abrasive Belts, ¼ in Collet For Die Grinder Use, Case	14 ¼ in	Dynabrade	40321	**11X734**
½ in W x 18 in L	20,000 RPM	8.9 cfm	21.6 cfm	Rear	(1) Hex Key, (3) Contact Arms, (5) Belts	13 ⅜ in	Chicago Pneumatic	CP5080-4200H18K	**22P511**
½ in W x 12 in L	20,000 RPM	4.2 cfm	24 cfm	Rear	(2) Surface Prep Belt, 3mm Hex Key, Grinding Belt #120, Grinding Belt #60	12 ⅜ in	Speedaire	21AC03	**21AC03**
	26,000 RPM	4.4 cfm	17.8 cfm	Rear	(1) Hex Key, (3) Contact Arms, (5) Belts	11 ⅜ in	Chicago Pneumatic	CP5080-3260D12K	**22P510**
¾ in W x 18 in L	18,000 RPM	4.5 cfm	12.5 cfm	Rear	4mm Hex Key, Grinding Belt #60 , Grinding Belt #80, Handle	15 ⅜ in	Speedaire	21AC02	**21AC02**

† Avg. cfm is based on a 1-min. run time.

6Z563

11C903

13F632

21AC01

DYNABRADE · Chicago Pneumatic · Ingersoll Rand · SPEEDAIRE

Pneumatic Random Orbital and Geared Dual-Action Sanders

- Vinyl pad face
- 3/16" orbit, except 3YY25, and 3YY26 have 3/32" orbit

Geared Dual Action (DA)—Dual-action motion pad provides swirl-free finishes. Come with a 6" foam-backed pad that accepts PSA sandpaper.

For Use With	Brand	Mfr. Model	Item No.
Tune Up Kits, include Bearings O-Rings, Muffler Components, Rotor and Vane Set			
56815, 56818, 56819, 56826	Dynabrade	96024	**13F716**
13F636, 13F637, 13F638, 13F639	Dynabrade	96620	**13F717**
13F632, 13F633, 13F634, 13F635	Dynabrade	96510	**13F718**

** Nonvacuum sanders use PSA (pressure sensitive adhesive) sandpaper. See Index under "Sandpaper, PSA Disc." † Avg. cfm is based on 1-min. run time.*

HP	Pad Size	Pad Face Type	Orbit Dia.	Free Speed	CFM @ Full Load†	Overall Length	Brand	Mfr. Model	Item No.
Geared Dual Action (DA)									
Self Generating Vacuum									
0.25 hp	6"	PSA	3/16 in	12,000 RPM	17 cfm	9 23/64 in	Ingersoll Rand	311A	**6Z563**
	8"	PSA	5/32 in	825 RPM	16 cfm	7 5/16 in	Ingersoll Rand	328B	**4Y368**
0.3 hp	6"	PSA	⅜ in	10,000 RPM	18 cfm	4 ½ in	Chicago Pneumatic	CP870	**11C967**
Light Duty Mini Kit									
0.2 hp	2" and 3"	Hook-and-Loop	3/32 in	15,000 RPM	21 cfm	5 45/64 in	Chicago Pneumatic	CP7200S	**11C917**
	3"	Hook-and-Loop	3/16 in	15,000 RPM	14.7 cfm	18 1/10 in	Ingersoll Rand	3128XPA	**12T594**
Random Orbital Sanders									
Central Vacuum									
0.25 hp	5"	PSA	3/16 in	12,000 RPM	14 cfm	7 ¼ in	Dynabrade	59024	**13F635**
0.26	5"	PSA	3/16 in	12,000 rpm	16.0	7 ¼ in	Dynabrade	69024	**13F639**
0.28 hp	5"	PSA	3/16 in	12,000 RPM	18 cfm	7 ¼ in	Dynabrade	56819	**13F643**
0.3 hp	6"	PSA	3/16 in	12,000 RPM	16 cfm	8 45/64 in	Chicago Pneumatic	CP7255CV	**11C923**
Nonvacuum									
0.08 hp	1¼"	Locking	3/16 in	7,500 RPM	6 cfm	5 in	Dynabrade	57502	**25H968**
0.2 hp	3½"	PSA	3/16 in	12,000 RPM	15.8 cfm	7 in	Ingersoll Rand	RS23B-PLV-1	**3YY27**
	5"	PSA	3/16 in	12,000 RPM	15.8 cfm	7 in	Ingersoll Rand	R025B-PSV-1	**3JF08** *
	5"	PSA	3/32 in	12,000 RPM	15.8 cfm	7 in	Ingersoll Rand	R025B-PSV-2	**3YY25**
	5"	PSA	3/16 in	12,000 RPM	16 cfm	6 5/16 in	Chicago Pneumatic	CP3511	**11C903**
	6"	PSA	3/16 in	12,000 RPM	15.8 cfm	7 ½ in	Ingersoll Rand	R026B-PSV-1	**3JF13** *
	6"	PSA	3/32 in	12,000 RPM	15.8 cfm	7 ½ in	Ingersoll Rand	R026B-PSV-2	**3YY26**
0.25 hp	5"	PSA	3/16 in	12,000 RPM	14 cfm	6 ½ in	Dynabrade	59020	**13F632**
	5"	Vinyl	3/32 in	12,000 RPM	14 cfm	6 ½ in	Dynabrade	59035	**25J005**
	5"	PSA	⅜ in	12,000 RPM	14 cfm	6 ½ in	Dynabrade	59005	**25H994**
	6"	PSA	3/16 in	12,000 RPM	14 cfm	7 in	Dynabrade	59025	**13F633**
0.26	6"	PSA	3/16 in	12,000 rpm	16.0	7 in	Dynabrade	69025	**13F637**
0.26 hp	5"	PSA	3/16 in	12,000 RPM	16 cfm	6 ½ in	Dynabrade	69020	**13F636**
0.28 hp	5"	PSA	3/16 in	12,000 RPM	18 cfm	6 ½ in	Dynabrade	56815	**13F640**
	5"	Vinyl	3/32 in	12,000 RPM	18 cfm	6 ½ in	Dynabrade	56850	**25H957**
	6"	PSA	3/16 in	12,000 RPM	18 cfm	7 in	Dynabrade	56826	**13F641**
0.3 hp	5"	PSA	3/16 in	10,000 RPM	18.5 cfm	7 in	Ingersoll Rand	R035A-PSV	**3JF18** *
	6"	PSA	3/32 in	12,000 RPM	16 cfm	7 5/16 in	Chicago Pneumatic	CP7225	**11C920**
	6"	PSA	3/16 in	12,000 RPM	16 cfm	7 5/16 in	Chicago Pneumatic	CP7255	**11C922**
	6"	Hook-and-Loop	3/16 in	12,000 RPM	16 cfm	7 5/16 in	Chicago Pneumatic	CP7255E	**11C924**
0.45 hp	6"	Hook-and-Loop	3/16 in	12,000 RPM	23 cfm	11 1/16 in	Dynabrade	58435	**13F648**
—	3⅔ in x 7 in	Vinyl or Hook	3/32"	10,000 RPM	16 cfm	7 ¼ in	Dynabrade	57810	**25H971**
Nonvacuum, Palm									
0.3 hp	6"	PSA	3/16 in	10,000 RPM	18.5 cfm	7 ½ in	Ingersoll Rand	R036A-PSV	**3JF24** *
Self Generating Vacuum									
0.2 hp	5"	PSA	3/16 in	12,000 RPM	15.8 cfm	7 in	Ingersoll Rand	R025B-VLV-1	**3JF09**
0.25 hp	5"	PSA	3/16 in	12,000 RPM	14 cfm	8 ½ in	Dynabrade	59023	**13F634**
0.28 hp	5"	PSA	3/16 in	12,000 RPM	18 cfm	8 ½ in	Dynabrade	56818	**13F642**
0.3 hp	3 1/16" x 6¾"	PSA	—	8,000 RPM	12 cfm	9 in	Ingersoll Rand	312A	**5LA61**
	3⅝" x 6½"	Foam Rubber	5/32 in	8,000 RPM	17.6 cfm	7 ⅜ in	Speedaire	21AC01	**21AC01**
	6"	PSA	3/16 in	12,000 RPM	16 cfm	9 7/64 in	Chicago Pneumatic	CP7255SV	**11Z511**
Vacuum Ready									
0.2 hp	5"	PSA	3/16 in	12,000 RPM	15.5 cfm	7 in	Ingersoll Rand	4151-5	**5RAE9**
	6"	PSA	3/16 in	12,000 RPM	15.5 cfm	7 in	Ingersoll Rand	4151	**1MM30**
	6"	PSA	—	12,000 RPM	15.5 cfm	7 27/64 in	Ingersoll Rand	4152	**454Z54**
0.26	5"	PSA	3/16 in	12,000 rpm	16.0	8 ½ in	Dynabrade	69021	**13F638**
0.3 hp	5"	PSA	3/16 in	10,000 RPM	18.5 cfm	7 in	Ingersoll Rand	R035A-CSV	**3JF15**
	6"	PSA	3/16 in	10,000 RPM	18.5 cfm	7 ½ in	Ingersoll Rand	R036A-CSV	**3JF21**

Wheel Dia.	HP	Max. Speed	Air Inlet	Kit Contents	Brand	Item No.
Compact Right Angle Mount						
Medium Duty						
2 ½ in	0.6	16,000 RPM	½ in FNPT	(1) Bare Tool	Cleco	**60UP22**
4 in	0.9	18,000 RPM	¼ in FNPT	(1) Bare Tool	Cleco	**60UP23**
Standard Reach Parallel Mount						
Heavy Duty						
3 in	0.5	20,000 RPM	¼ in MNPT	(1) Bare Tool	Dynabrade	**25H909**
4 in	0.7	20,000 RPM	¼ in MNPT	(1) Bare Tool	Dynabrade	**25H911**
Standard Reach Perpendicular Mount						
Light Duty						
3 in	0.5	20,000 RPM	¼ in FNPT	(1) Bare Tool	Speedaire	**48MA05**
3 in	0.5	20,000 RPM	¼ in FNPT	(1) Bare Tool, (8) Cut-Off Wheels	Speedaire	**48MA06**
Medium Duty						
2 ⅞ in	0.5	20,000 RPM	¼ in FNPT	(1) Bare Tool	Ingersoll Rand	**4Y366**
2 ⅞ in	0.5	20,000 RPM	¼ in FNPT	(1) Bare Tool	Chicago Pneumatic	**36WC66**
2 ⅞ in	0.5	22,000 RPM	¼ in FNPT	(1) Bare Tool	Chicago Pneumatic	**11C969**
3 in	0.5	22,000 RPM	¼ in FNPT	(1) Bare Tools, (1) Cutting Wheel	Speedaire	**21AC04**
Standard Reach Right Angle Mount						
Heavy Duty						
2 ½ in	0.4	12,000 RPM	¼ in FNPT	(1) Bare Tool, (1) Cut-Off Wheel	Speedaire	**45YY23**
2 ½ in	0.4	4,500 RPM	¼ in FNPT	(1) Bare Tool, (1) Cut-Off Wheel	Speedaire	**45YY24**
3 in	0.4	12,000 RPM	¼ in MNPT	(1) Bare Tool	Dynabrade	**25H912**
3 in	0.4	12,000 RPM	⅜ in MNPT	(1) Bare Tool	Dynabrade	**25H916**
4 in	0.7	15,000 RPM	¼ in MNPT	(1) Bare Tool	Dynabrade	**25H910**
Extended Reach Parallel Mount						
Medium Duty						
4 in	1	14,000 RPM	¼ in FNPT	(1) Bare Tool, (5) Cutting Discs	Chicago Pneumatic	**36WC33**
Heavy Duty						
4 in	0.7	13,500 RPM	¼ in MNPT	(1) Bare Tool	Dynabrade	**28PZ01**
4 in	0.7	17,000 RPM	¼ in FNPT	(1) Bare Tool	Speedaire	**21AC05**
Extended Reach Perpendicular Mount						
Heavy Duty						
3 in	1	18,000 RPM	⅜ in MNPT	(1) Bare Tool	Dynabrade	**13F685**
4 in	1	18,000 RPM	⅜ in MNPT	(1) Bare Tool	Dynabrade	**13F684**
Extended Reach Right Angle Mount						
Medium Duty						
4 in	1	14,000 RPM	¼ in FNPT	(1) Bare Tool	Dynabrade	**703N81**
Heavy Duty						
5 in	1.3	12,000 RPM	⅜ in MNPT	(1) Bare Tool	Dynabrade	**20UC98**

Compact Right Angle 60UP22

Standard Reach Perpendicular Mount 48MA05

Extended Reach Parallel Mount 36WC33

Pneumatic Cut-Off Tools

Compact tools rotate abrasive discs or wheels to cut metal and other materials. Equipped with a wheel guard to deflect sparks, debris, and shattered wheel fragments away from the user.

Standard reach tools have a 6" to 11" reach and allow for a one-handed grip to control the tool.

Extended reach tools can reach beyond 11" and require a two-handed grip for tool control.

Right angle mount tools position wheels on the side of the tool with the cutting edge at a right angle to the body.

Parallel mount tools position wheels below the tool head with the cutting edge extending inline with the tool body to make cuts from the front or side of the tool.

Perpendicular mount tools position wheels at the front of the tool with the cutting edge set perpendicular to the body to cut off lengths of pipe and other materials.

Note: For cut-off wheels go to Grainger.com and search for "cut-off wheels"

Engraving Pens and Reciprocating Filer Tools

- Required psi: 90
- Air inlet: ¼" NPT

Speedaire—Offer fine-point stylus for precise engraving and cushion finger grip for comfort.

Ingersoll Rand—Feature zoom throttle and variable speed.

CFM @ Full Load*	Min. Hose Size	Hose Length	Includes	Brand	Mfr. Model	Item No.
General-Duty Engraving Pens						
1 cfm	5/16 in	59 in	—	Speedaire	21AC06	**21AC06**
1.7 cfm	¼ in	79 in	—	Chicago Pneumatic	CP9160	**11C986**
Industrial-Duty Engraving Pen Kits						
1.1 cfm	3/16 in	96 in	1 Carry Case, 2 Air Filter Assembly, 3 Stylus - Carbide Tipped, Writing and Engraving, 3/16 in Bore, 4 Anvils, 5 Flat Chisels, 6 Chisel Blanks, 7 Round Nose Chisel, Air Hose	Chicago Pneumatic	CP9361-1	**11C992**
2.5 cfm	7/32 in	66 in	Flexible Hose, Molded Plastic Case, Three Assorted Styluses	Ingersoll Rand	EP50K	**3Y478**
Industrial-Duty Engraving Pens						
1.1 cfm	3/16 in	96 in	—	Chicago Pneumatic	CP9361	**11C991**
1.5 cfm	¼ in	6 in	6 ft Hose, Medium Point Tip	Ingersoll Rand	8315	**49U011**
2.5 cfm	7/32 in	—	—	Ingersoll Rand	EP50	**3Y479**
Reciprocating Filer Tool						
4 cfm	9/16 in	—	Air Line Swivels, In-Line Filter, One Touch On and Off Button, Wrench	Dynabrade	10843	**13F650**
Reciprocating Filer Tool Kit						
4 cfm	9/16 in	—	Air Line Swivels, DynaPen, In-Line Filter, One Touch On and Off Button, Scribe Point, Chisel and Wrench, Swiss Pattern Files, Wrench	Dynabrade	10850	**13F651**

** Avg. cfm is based on a 1-min. run time.*

11C991

Nibbler 11C964

5KB22

Pneumatic Nibblers & Shears

Commonly used to cut panels, ducts, ribbed roofing, and siding in mechanical, electrical, plumbing, HVAC, metalworking, and automotive applications.

Shears move a pivoting blade against a fixed blade to make straight or curved cuts. Pistol grip handle.

Nibblers punch a series of small holes to cut flat, corrugated, or uneven sheet metal.

Primary Material Application	Capacity Steel	Max. Strokes per Minute	Air Inlet	Air Consumption	Brand	Item No.
Air-Powered Shears						
Aluminum; Steel; Tin	18 ga	2,400	¼ in FNPT	15.5 cfm	Chicago Pneumatic	**11C951**
Asphalt Shingles	0.5 in	—	¼ in NPT	4 cfm	Malco	**5KNU4**
Sheet Metal	18 ga	2,600	¼ in NPT	16 cfm	Speedaire	**21AC07**
Steel	18 ga	—	¼ in NPT	4 cfm	Malco	**5KNU2**
Steel	20 ga	4,200	¼ in FNPT	21 cfm	Ingersoll Rand	**5KB22**
Air-Powered Nibblers with Top Lever						
—	16 ga	2,750	Female	17 cfm	Chicago Pneumatic	**11C964**
—	18 ga	2,600	Female	16 cfm	Speedaire	**21AC15**
Air-Powered Nibblers with Bottom Lever						
—	18 ga	4,200	Female	17 cfm	Ingersoll Rand	**5MRY1**
—	18 ga	2,600	Male	21.2 cfm	Speedaire	**3CRJ8**

23Z007

Pneumatic Reciprocating Saws

Make straight and curved cuts in sheet metal, aluminum, plastic, and other materials. Can access small spaces and offer one-handed operation.

Note: For replacement blades go to Grainger.com and search for "air-powered reciprocating saw blades"

Max. Strokes per Minute	Stroke Length	Air Pressure	Air Inlet	Air Consumption	Includes	Item No.
Chicago Pneumatic						
General Duty						
10,000	⅜ in	90 psi	¼ in NPT	6 cfm	(5) 18T Blades, (5) 24T Blades, (5) 32T Blades, Case	**11C956**
10,000	⅜ in	90 psi	¼ in NPT	6 cfm	—	**11C955**
10,000	⅜ in	90 psi	¼ in NPT	6 cfm	(1) 18T Blade, (1) 28T Blade, (1) 32T Blade, Adjustable Guard Guide	**11C954**
Ingersoll Rand						
General Duty						
9,500	⅜ in	90 psi	¼ in NPT	1 cfm	(2) Hex Wrenches, (6) High Speed Steel Cutting Blades, Manuals	**23Z007**
10,000	⅜ in	90 psi	¼ in NPT	9 cfm	(2) Hex Wrenches, (6) High Speed Steel Cutting Blades, Manuals	**6W381**
Speedaire						
General Duty						
9,000	⅜ in	90 psi	¼ in FNPT	8 cfm	24T Blade, 2mm Hex Key, 4mm Hex Key	**21AC08**
10,000	⅜ in	90 psi	¼ in FNPT	10 cfm	24T Blade, 2mm Hex Key, 4mm Hex Key	**21AC09**
Industrial Duty						
7,500	5/16 in	90 psi	¼ in FNPT	1 cfm	18T Saw Blade, 24T Saw Blade, 32T Saw Blade, Hex Wrench	**10D241**
Viking Air Tools						
General Duty						
5,000	⅜ in	90 psi	¼ in NPT	4 cfm	(2) Blades, (5) Files, Mfr. No.VT7500	**29CK39**

In-Line Needle Scaler 36WC22

Pistol-Grip Chisel Scaler 3YY22

Pneumatic Needle & Chisel Scalers

- See page 2514 for Chisels

Stroke Length	Blows per Minute	Air Inlet	Kit Contents	Air Consumption	Brand	Mfr. Model	Item No.
In-Line Needle Scalers							
Medium Duty							
7/16 in	2,400 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	5 cfm	Chicago Pneumatic	B16MV	**36WC22**
9/16 in	4,200 bpm	¼" FNPT	(1) Bare Tool, (12) Needles	16 cfm	Master Power	MP5187	**24D747**
⅝ in	6,000 bpm	¼" FNPT	(1) Bare Tool, (12) Needles	12 cfm	Speedaire	45YY25	**45YY25**
1 1/16 in	4,000 bpm	⅜" FNPT	(1) Bare Tool	9.2 cfm	Speedaire	3AAJ2	**3AAJ2**
1 5/16 in	4,000 bpm	¼" FNPT	(1) Bare Tool, (12) Needles	4 cfm	Chicago Pneumatic	CP7115	**33E884**
Heavy Duty							
9/16 in	5,500 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	12 cfm	Ingersoll Rand	172LNA1	**3Y593**
1 in	4,300 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	14 cfm	Chicago Pneumatic	CP0456-LASAN	**36WC65**
1 1/16 in	4,000 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	13 cfm	Ingersoll Rand	182LNA1	**3Y589**
1 ⅛ in	4,600 bpm	⅜" FNPT	(1) Bare Tool, (19) Needles	10 cfm	Chicago Pneumatic	CP9356NS	**11C990**
1 ⅝ in	3,000 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	6 cfm	Chicago Pneumatic	B16M	**42NY07**
Pistol Grip Needle Scalers							
Light Duty							
1 5/16 in	3,700 bpm	¼" FNPT	(1) Bare Tool	4.5 cfm	Speedaire	3AAH9	**3AAH9**
Medium Duty							
7/16 in	2,400 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	4 cfm	Chicago Pneumatic	B18MV	**36WC24**
¾ in	3,000 bpm	¼" FNPT	(1) Bare Tool, (28) Needles	4 cfm	Chicago Pneumatic	B19MV	**36WC26**
1 5/16 in	4,000 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	5 cfm	Chicago Pneumatic	CP7125	**33E883**
2 3/64 in	2,500 bpm	¼" FNPT	(1) Bare Tool	10 cfm	Speedaire	12V730	**12V730**
2 ⅝ in	3,000 bpm	¼" FNPT	(1) Bare Tool	11 cfm	Speedaire	3AAH8	**3AAH8**
Heavy Duty							
1 ½ in	2,200 bpm	¼" FNPT	(1) Bare Tool, (28) Needles	8 cfm	Ingersoll Rand	180PG	**3YY21**
1 ⅝ in	3,000 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	6 cfm	Ingersoll Rand	170PG	**3YY20**
Pistol-Grip Needle & Chisel Scalers							
Heavy Duty							
2 ¼ in	3,000 bpm	¼" FNPT	(1) Bare Tool, (1) Chisel with Retainer, (19) Needles	24 cfm	Speedaire	45YY26	**45YY26**
In-line Needle & Chisel Scalers							
Light Duty							
1 17/32 in	4,600 bpm	¼" FNPT	(1) Bare Tool, (3) Chisel	13 cfm	Speedaire	3AAH6	**3AAH6**
1 17/32 in	4,800 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	12.4 cfm	Speedaire	3AAJ1	**3AAJ1**

Stroke Length	Blows per Minute	Air Inlet	Kit Contents	Air Consumption	Brand	Mfr. Model	Item No.
Medium Duty							
1 3/16 in	4,800 bpm	¼" FNPT	(1) Bare Tool, (1) Chisel, (19) Needles	16 cfm	Chicago Pneumatic	CP7120	**11C912**
1 19/64 in	4,600 bpm	¼" FNPT	(1) Bare Tool, (19) 7 in Needles, (3) Chisels, (38) 5 in Needles	10 cfm	Speedaire	12V732	**12V732**
1 17/32 in	4,600 bpm	¼" FNPT	(1) Bare Tool	13 cfm	Speedaire	3AAH7	**3AAH7**
Heavy Duty							
1 in	4,300 bpm	¼" FNPT	(1) Bare Tool, (19) Needles	10 cfm	Chicago Pneumatic	CP0456-LESAR	**36WC64**
1 1/16 in	4,000 bpm	¼" FNPT	(1) Bare Tool, (19) 7 in Needles, (38) 5 in Needles	13 cfm	Ingersoll Rand	182K1	**3Y591**
In-Line Chisel Scalers							
Medium Duty							
7/16 in	2,400 bpm	¼" FNPT	(1) Bare Tool	5 cfm	Chicago Pneumatic	B16BV	**36WC21**
1 7/64 in	4,600 bpm	¼" FNPT	(1) Bare Tool	16 cfm	Cleco	B1-C-LT	**24D735**
1 5/16 in	2,200 bpm	¼" FNPT	(1) Bare Tool	5 cfm	Chicago Pneumatic	B20	**36WC74**
Heavy Duty							
9/16 in	5,500 bpm	¼" FNPT	(1) Bare Tool	12 cfm	Ingersoll Rand	172L	**3Y594**
1 1/16 in	4,000 bpm	¼" FNPT	(1) Bare Tool	13 cfm	Ingersoll Rand	182L	**3Y590**
1 7/64 in	4,600 bpm	⅜" FNPT	(1) Bare Tool	10 cfm	Chicago Pneumatic	CP9356	**11C989**
Pistol-Grip Chisel Scalers							
Medium Duty							
7/16 in	2,400 bpm	¼" FNPT	(1) Bare Tool	4 cfm	Chicago Pneumatic	B18BV	**36WC23**
¾ in	3,000 bpm	¼" FNPT	(1) Bare Tool	4 cfm	Chicago Pneumatic	B19BV	**36WC25**
Heavy Duty							
1 ½ in	2,200 bpm	¼" FNPT	(1) Bare Tool, (1) Chisel	8 cfm	Ingersoll Rand	180PG-CS	**3YY23**
1 ⅝ in	3,000 bpm	¼" FNPT	(1) Bare Tool, (1) Chisel	6 cfm	Ingersoll Rand	170PG-CS	**3YY22**

Needle Diameter	Needle Length	Material	No. of Needles	For Use With Mfr. Model Number	Brand	Item No.
Scaler Needle Sets						
Non-Sparking No						
⅛ in	5 in	Steel	19	172K1, 172L, 182K1, 182L	Ingersoll Rand	**22XF06**
	5 in	Steel	19	ACL-053	Westward	**4MHF2**
	5 in	Steel	28	CP7115	Speedaire	**45M643**
	7 in	Steel	19	ACL-054	Westward	**4MHF3**
	7 in	Steel	19	172K1, 172L, 182K1, 182L	Ingersoll Rand	**22XF07**
	7 in	Steel	19	125, 125-A	Ingersoll Rand	**22XF49**
	7 in	Steel	19	125, CP7120, CP7125	Speedaire	**45M639**
	7 in	Steel	19	RC5620	Speedaire	**45M642**
3 mm	173 mm	Steel	1	11C912, 12V732, 3AAH6, 3AAH8, 3AAH9, 3AAJ2, AAH7	Speedaire	**45R379**
Non-Sparking Yes						
5/64 in	7 in	Stainless Steel	29	B15M, CP7125	Chicago Pneumatic	**41GP71**
⅛ in	5 in	Beryllium Copper	19	172LNA1, 182LNA1	Ingersoll Rand	**463D44**
	7 in	Stainless Steel	12	B15M, CP0951	Chicago Pneumatic	**24KN29**
	7 in	Stainless Steel	19	B16M, B16MV, B18M, B18MV, CP0456, CP7120, CP7125, CP9356	Chicago Pneumatic	**24KN95**
	7 in	Steel	19	B16M, B16MV, B18M, B18MV, CP0456, CP7120, CP7125, CP9356	Chicago Pneumatic	**41GP77**

Air-Powered Hammers & Kits

- Round shank
- Round compatible collar shape
- ¼" Air inlet
- See page 2514 for Chisels

Shank Size	Stroke Length	Blows per Minute	Air Consumption	Brand	Item No.
Air Hammer					
Medium Duty					
0.401 in	1 ⅝ in	5,000 bpm	14 cfm	Ingersoll Rand	**20CK95**
	2 ¼ in	3,000 bpm	15 cfm	Ingersoll Rand	**2Z750**
	2 ⅝ in	2,800 bpm	5.4 cfm	Speedaire	**12V729**
		3,000 bpm	25 cfm	Chicago Pneumatic	**11C911**
		3,200 bpm	7 cfm	Speedaire	**21AC11**
		3,200 bpm	7 cfm	Speedaire	**21AC14**
		3,200 bpm	14 cfm	Chicago Pneumatic	**11C910**
		3,500 bpm	15 cfm	Ingersoll Rand	**6Z559**
	3 ½ in	2,000 bpm	8 cfm	Chicago Pneumatic	**11C913**
		2,000 bpm	8 cfm	Speedaire	**21AC10**
		2,000 bpm	14 cfm	Ingersoll Rand	**12T586**
	4 in	1,725 bpm	11 cfm	Ingersoll Rand	**12T587**
0.498 in	2 ¾ in	1,800 bpm	12 cfm	Chicago Pneumatic	**11C915**
Heavy Duty					
0.401 in	2 ¼ in	3,000 bpm	15 cfm	Ingersoll Rand	**3Y517**
	2 ⅝ in	3,530 bpm	24 cfm	Ingersoll Rand	**23Z005**
	3 in	2,100 bpm	13 cfm	Ingersoll Rand	**3Y497**
	3 ½ in	2,100 bpm	8 cfm	Speedaire	**21AC13**
		2,300 bpm	25 cfm	Chicago Pneumatic	**36WC69**
		2,530 bpm	24 cfm	Ingersoll Rand	**23Z003**
	4 in	1,725 bpm	13 cfm	Ingersoll Rand	**3Y496**

11C911

3JD19

Shank Size	Stroke Length	Blows per Minute	Air Consumption	Kit Contents	Brand	Item No.
Air Hammer Kit						
Medium Duty						
0.401 in	1 ⅝ in	5,000 bpm	14 cfm	(1) Bare Tool, (1) Blade Straight Chisel, (1) Cutting Chisel, (1) Edging Tool, (1) Punch Chisel, (1) Tail Pipe Cutter	Ingersoll Rand	**20CK96**
	2 ¼ in	3,000 bpm	15 cfm	(1) Bare Tool, (1) Flat Blade Chisel, (1) Punch Chisel, (1) Claw Ripper-Edging Tool, (1) Single Blade Cutter, (1) Kwik Cutter, (1) Vee-Chisel-Spot Welder Breaker	Ingersoll Rand	**3JD19**
	2 ⅝ in	3,000 bpm	25 cfm	(1) Bare Tool, (1) Flat Chisel, (1) Tapered Punch, (1) Spot Weld Splitter, (1) Single Blade Panel Cutter, (1) Edging Chisel, (1) Quick Change Retainer	Chicago Pneumatic	**36WC30**
		3,200 bpm	14 cfm	(1) Bare Tool, (4) Chisels, (1) Posi-Lock Retainer	Chicago Pneumatic	**36WC68**
		3,500 bpm	15 cfm	(1) Bare Tool, (1) Blade Straight Chisel, (1) Cutting Chisel, (1) Edging Tool, (1) Punch Chisel, (1) Tail Pipe Cutter	Ingersoll Rand	**20CK97**
	3 ½ in	2,000 bpm	14 cfm	(1) Bare Tool, (1) Flat Chisel, (1) Cutting Chisel, (1) Edging Tool, (1) Punch, (1) Tail Pipe Cutter	Ingersoll Rand	**4UJL1**
		2,300 bpm	4 cfm	(1) Bare Tool, (4) Chisels	Speedaire	**12V728**
		2,300 bpm	25 cfm	(1) Bare Tool, (4) Chisels, (1) Retainer	Chicago Pneumatic	**11C914**
Heavy Duty						
0.401 in	2 ⅝ in	3,530 bpm	24 cfm	(1) Bare Tool, (1) Quick Change Retainer, (5) Chisels	Ingersoll Rand	**23Z006**
	3 ½ in	2,530 bpm	24 cfm	(1) Bare Tool, (1) Quick Change Retainer, (5) Chisels	Ingersoll Rand	**23Z004**

Chipping Hammers

- Required psi: 90
- See page 2514 for chisels

Heavy-duty, air-powered chipping hammers strike chisels against surfaces for heavy material removal and light demolition using bits with 0.580" or 0.680" round or hex shank. Tools have a long barrel that allows a longer stroke length and more driving power than air hammers. They require two-handed operation to maintain control and have a switch on the handle for starting and stopping the tool. Suitable for cleaning off heavy slag and buildup, chipping away adhered layers, prying apart fused materials, and breaking down assembled components.

Note: Be sure that the chisel is held securely against the work surface and is never allowed to "free fire" or allow the chisel to strike the retainer. This practice could damage the retainer and break the barrel.

12V727

21AC16

469T43

Shank Size	Stroke Length	Blows per Minute	Shank Shape	Compatible Collar Shape	Air Inlet Size	Air Consumption	Brand	Item No.
0.58 in	2 in	2,300 bpm	Hex	Oval	⅜ in FNPT	28 cfm	Ingersoll Rand	**3Y574**
	2 in	2,300 bpm	Hex	Round	⅜ in FNPT	28 cfm	Ingersoll Rand	**469T41**
	3 in	1,725 bpm	Hex	Oval	⅜ in FNPT	29 cfm	Ingersoll Rand	**3Y571**
	3 ⅝ in	2,400 bpm	Round	Oval	⅜ in FNPT	10.8 cfm	Speedaire	**12V727**
	4 in	1,480 bpm	Hex	Oval	⅜ in FNPT	29 cfm	Ingersoll Rand	**3Y546**
	4 in	1,480 bpm	Hex	Round	⅜ in FNPT	29 cfm	Ingersoll Rand	**469T45**
0.68 in	1 in	2,100 bpm	Round	Oval	⅜ in FNPT	23.5 cfm	Speedaire	**21AC16**
	1 in	2,500 bpm	Round	Oval	⅜ in FNPT	28 cfm	Ingersoll Rand	**469T39**
	2 in	2,200 bpm	Round	Oval	⅞ in FNPT	28 cfm	Ingersoll Rand	**4KR81**
	2 in	2,300 bpm	Round	Oval	⅜ in FNPT	28 cfm	Ingersoll Rand	**4Z260**
	2 in	2,300 bpm	Round	Round	⅜ in FNPT	28 cfm	Ingersoll Rand	**3Y445**
	2 in	2,400 bpm	Round	Oval	⅜ in FNPT	10.2 cfm	Speedaire	**12V726**
	3 in	1,725 bpm	Round	Oval	⅜ in FNPT	29 cfm	Ingersoll Rand	**6Z571**
	3 in	1,725 bpm	Round	Round	⅜ in FNPT	29 cfm	Ingersoll Rand	**3Y443**
	3 in	2,300 bpm	Round	Oval	⅜ in FNPT	23.5 cfm	Speedaire	**48MA10**
	4 in	1,480 bpm	Round	Oval	⅜ in FNPT	29 cfm	Ingersoll Rand	**3Y545**
	4 in	1,480 bpm	Round	Round	⅜ in FNPT	29 cfm	Ingersoll Rand	**3Y441**
	4 in	1,600 bpm	Round	Oval	⅞ in FNPT	34 cfm	Ingersoll Rand	**469T43**

Riveting Hammers

- See page 2514 for chisels

Tools are air-powered and use chisel bits with a round shank to set rivets for assembling parts and repairing metal structures. They deliver a measured blow to prevent damage to rivet heads and surrounding materials. The pistol-grip design sets the barrel at a right angle to the grip so users can control the pressure applied to the bit and hold the tool steady in a range of positions on vertical and horizontal surfaces. Have a trigger switch on the grip for starting and stopping the tool. Compact size allows use in tight spaces such as inside frames and assemblies.

Note: Be sure that the chisel is held securely against the work surface and is never allowed to "free fire" or allow the chisel to strike the retainer. This practice could damage the retainer and break the barrel.

55KG49

436P77

Shank Size	Stroke Length	Blows per Minute	Air Inlet Size	Air Consumption	Brand	Item No.
Medium Duty						
0.401 in	3"	1,740 bpm	¼ in FNPT	4 cfm	Chicago Pneumatic	**55KG49**
Heavy Duty						
0.498 in	6"	1,120 bpm	¼ in FNPT	14 cfm	Ingersoll Rand	**436P77**

Rivet Busting Hammer

- See page 2514 for chisels

Heavy-duty, air-powered hammer has an extra-long barrel and stroke to deliver powerful blows to remove or set rivets, cut through tanks, and break up brick or concrete. Tool uses long, thick-shanked chisel bits and provides a similar force to jackhammers but is lighter to ease transport and reduce operator fatigue during extended use. Requires two-handed operation to maintain control and has a switch on the handle for starting and stopping the tool.

Note: Be sure that the chisel is held securely against the work surface and is never allowed to "free fire" or allow the chisel to strike the retainer. This practice could damage the retainer and break the barrel.

Shank Size	Stroke Length	Blows per Minute	Air Inlet Size	Air Consumption	Item No.
0.89 in	9"	900 bpm	⅜ in FNPT	40 cfm	**3Y844**

Diggers, Paving Breakers, Rock Drills, and Backfill Tamper

DIGGERS

Latch retainer-type diggers for light- and medium-weight use.

PAVING BREAKERS

More powerful with fewer parts than competitive models. Spring-loaded anvil bushing keeps tool on work surface. 1-pc. housing eliminates side rods and springs.

ROCK DRILLS

Designed with speed and hole-cleaning capacity for fast rock-drilling applications. Easily adjustable 3-speed throttles with reversible pawls. Drill 2½" dia. holes up to 6-ft. deep.

AIR BACKFILL TAMPER

Ideal for backfilling around foundations and other tight areas. Dual-action sand wiper keeps dirt out of the barrel. Tamper includes built-in lubricator and muffler. Also has ⅞" tapered rod, plated piston, and standard 5¾" round malleable butt.

3JD47

3Y679

3YY24

4Y242

Description	Shank Size Hex w/Collar	Piston Stroke	Piston Bore	Blows Per Minute	cfm @ Full Load	Air Inlet	Min. Hose Size	Overall Length	Mfr. Model	Item No.
Air Diggers										
D-Handle Handle	⅞ x 3¼ in	2 ½ in	1 11/16 in	2,350	45.0	⅜ in NPT	½ in	18 ⅞ in	93LA1	**3JD44**
	⅞ x 3¼ in	4 in	1 11/16 in	1,850	47.0	⅜ in NPT	½ in	21 ⅞ in	95LA1	**3JD46**
	1 x 4¼ in	4 in	1 11/16 in	1,850	47.0	⅜ in NPT	½ in	21 ⅞ in	95LA3	**3JD47**
Air Paving Breakers										
35 lb Class	1 in x 4 ¼ in	6 ¼ in	1 ¾ in	1,250	49.0	¾ in NPT	¾ in	25 in	PB35AL8	**3Y690**
60 lb Class	1 ⅛ in x 6 in	5 ¾ in	2 1/16 in	1,250	70.0	¾ in NPT	¾ in	27 ½ in	MX60A	**3JD98**
	1 ¼ in x 6 in	5 ¾ in	2 1/16 in	1,250	70.0	¾ in NPT	¾ in	27 ½ in	MX60B	**3JF01**
90 lb Class	1 ⅛ in x 6 in	5 ¾ in	2 ⅝ in	1,250	85.0	¾ in NPT	¾ in	27 ½ in	MX90A	**3Y682**
	1 ¼ in x 6 in	5 ¾ in	2 ⅝ in	1,250	85.0	¾ in NPT	¾ in	27 ½ in	MX90B	**3Y679**
Air Rock Drills										
T-Handle Handle	⅞ in x 4 ¼ in	1 7/16 in	2 ⅜ in	2,700	73.0	¾ in NPT	¾ in	19 ½ in	JRD30-B	**3YY24**
	1 in x 4 ¼ in	2 ⅝ in	2 ½ in	2,000	115.0	¾ in NPT	¾ in	22 ½ in	JH40C3	**3Y698**
Air Backfill Tamper										
Straight Handle	—	4 in	1 ⅝ in	1,550	29.0	⅜ in NPT	½ in	52 ¾ in	341A2M	**4Y242**
Replacement Butts										
Replacement Butt, For Use With 341A2M, 3 in Dia.									34SR-383	**2KJK5**

4MGY2

4MGX9

4MGZ8

WESTWARD

Rivet Hammer Chisels

Heat-treated alloy steel promotes long life.

Note: For Air Rivet Buster Chisels go to Grainger.com.

Item	Fits	Item No.
Retainers for 0.401 in Shank Pneumatic Hammers		
Chisel Retainer	Speedaire, Dayton, Chicago Pneumatic, UT, Raider	**4MGY2**
Chisel Retainer	Ingersoll Rand, Sioux	**4MGX8**
Spring Retainer	CP, Dayton, Raider, UT	**4MGX9**
Spring Retainer	Ingersoll Rand	**4MGY1**
Retainers for 0.68 in Shank Chipping Hammers with Retainers		
Chisel Retainer	CP, Dayton, Jet	**4MGZ8**
Chisel Retainer	Ingersoll Rand	**4MGZ9**

Item	Chisel Tip Width	Overall Length	Item No.
0.401 in Round Shank Hammer Chisels			
Chisel	39⁄64 in	5 ¾ in	**4MHE8**
	⅝ in	5 ⅜ in	**4MHE7**
	¾ in	6 ½ in	**4MHD7**
	1 5⁄16 in	6 ¼ in	**4MHD9**
	1 1⁄16 in	6 ⅞ in	**4MHE2**
	¾ in	6 in	**4MHE1**
	¾ in	8 ½ in	**4MHE6**
	¾ in	18 in	**4MHD8**
Chisel Set	⅜ in	6 ½ in	**4MHF1**
	51⁄64 in	6 ¼ in	**4MHE9**
Muffler Splitter Chisel	17⁄32 in	7 ½ in	**4MHE3**
Punch	13⁄64 in	6 ½ in	**4MHE4**
	½ in	6 ½ in	**4MHE5**
0.58 in Hex Shank - Chipping Hammer Chisels (Oval Collar)			
Moil Point Chisel	—	9 in	**4MGY5**
	—	12 in	**4MGY6**
0.58 in Hex Shank - Chisels (Oval Collar)			
Chisel	2 in	8 ½ in	**4MGY7**
	1 in	9 in	**4MGY3**
	1 in	12 in	**4MGY4**
0.68 in Round Shank - Chipping Hammer Chisels (Oval Collar)			
Moil Point Chisel	—	9 in	**4MGZ4**
	—	12 in	**4MGZ5**
0.68 in Round Shank - Chipping Hammer Chisels (Round Collar)			
Moil Point Chisel	—	12 in	**4MGZ6**
0.68 in Round Shank - Chisels (Oval Collar)			
Chisel	2 in	8 ½ in	**4MGZ7**
	1 in	9 in	**4MGZ2**
	1 in	12 in	**4MGZ3**
0.68 in Round Shank - Chisels (Round Collar)			
Chisel	1 in	8 ¾ in	**4MGY8**
	2 in	8 ¾ in	**4MGY9**
	1 in	12 in	**4MGZ1**

4MHD9

4MHD8

4MHE4

4MHE5

WESTWARD

Scaling Hammer Chisels

Item	Shank Type	Chisel Tip Width	Overall Length	Item No.
Chisel	B1/Cleco	1 ⅜ in	7 in	**4MHA3**
	B1/Cleco	¾ in	7 in	**4MHA1**
	B1/Cleco	1 ⅜ in	7 in	**4MHA2**
	B1/Cleco	2 in	7 in	**4MHA4**
	Fuji	1 ⅜ in	7 in	**4MHA7**
	Fuji	¾ in	7 in	**4MHA5**
	Fuji	1 ⅜ in	7 in	**4MHA6**
	Fuji	2 in	7 in	**4MHA8**
	IR	1 ⅜ in	7 in	**4MHC4**
	IR	¾ in	7 in	**4MHC1**
	IR	1 ⅜ in	7 in	**4MHC2**
	IR	1 ⅜ in	12 in	**4MHC3**
	IR	2 in	7 in	**4MHA9**

4MHA1

WESTWARD

Paving Breaker Chisels

Item	Chisel Tip Width	Overall Length	Item No.
0.875 in x 3 ⅛ in Hex Shank			
Chisel	1 3⁄16 in	17 ¾ in	**4MHC5**
0.875 in x 3 ⅛ in Shank			
Moil Point Chisel	—	18 ¼ in	**4MHC6**
1 in x 4 ⅛ in Shank			
Chisel	1 ¼ in	18 ⅞ in	**4MHC7**
1 in x 4 ¼ in Shank			
Moil Point Chisel	—	19 ¾ in	**4MHC8**
1.25 in x 6 ¼ in Hex Shank			
Asphalt Cutter	5 in	18 in	**4MHD6**
1.125 in x 6 in Hex Shank			
Chisel	5 in	17 ¾ in	**4MHD3**
Moil Point Chisel	—	20 ⅞ in	**4MHD1**
Chisel	3 in	21 ¼ in	**4MHD2**
Chisel	1 ¼ in	20 ½ in	**4MHC9**
1.25 in x 6 in Shank			
Chisel	1 ⅜ in	20 ¾ in	**4MHD4**
Moil Point Chisel	—	20 ½ in	**4MHD5**

4MHC5

4MHD3

HUBBELL · SPEEDAIRE · Ingersoll Rand

Tool Retractors

ADJUSTABLE TOOL RETRACTORS

Include adjustable cable stop and lower safety hook.

Hubbell BD Series—Rugged ABS plastic construction with spring tension adjustment and push-button tension release.

Hubbell BG Series—Steel construction with a black polyester baked finish. Available in both ratcheted and constant pull configurations.

INDUSTRIAL TOOL RETRACTORS

Speedaire®—Rugged steel construction; permanent lubrication; easily replaceable, self-contained main spring. External tension adjustment requires no special tools. Include adjustable cable stop and safety hook.

Ingersoll Rand—Rugged steel retractor has a permanently lubricated, self-contained main spring that is easily replaceable. External tension adjustment requires no tools. Nylon-coated steel aircraft cable with adjustable cable stop and safety hook.

PRODUCTION TOOL RETRACTORS

Easy cable tension adjustment, in-line alignment of hanger and tool hook, and maintenance-free design.

Speedaire—Die-cast aluminum units feature 3 suspension points.

Ingersoll Rand—Feature in-line adjustment of hanger and tool hook.

6HH12

6EPV8

5YAP1

For Tool Weighing	Cable Length	Ratchet Lock	Reel Weight	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.	
Adjustable Tool Balancers										
5.00 to 10.00 lb	8 ft	No	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-07	**6HH10**	*
10.00 to 15.00 lb	8 ft	No	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-15	**6HH12**	*
16.00 to 23.00 lb	8 ft	No	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-20	**1YMP6**	*
22.00 to 27.00 lb	8 ft	No	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-25	**1YMP8**	*
Adjustable Tool Retractors										
0.50 to 1.50 lb	6 ft	No	1 lb	9 ¼ in	2 ⅞ in	4 in	Hubbell	BD-01	**6HH07**	*
1.50 to 3.00 lb	6 ft	No	1 lb	9 ¼ in	2 ⅞ in	4 in	Hubbell	BD-03	**6HH08**	*
3.00 to 5.00 lb	6 ft	No	1.1 lb	9 ¼ in	2 ⅞ in	4 in	Hubbell	BD-05	**6HH09**	*
5.00 to 10.00 lb	8 ft	Yes	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-07-L	**6HH11**	*
10.00 to 15.00 lb	8 ft	Yes	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-15-L	**6HH13**	*
16.00 to 23.00 lb	8 ft	Yes	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-20-L	**1YMP7**	*
22.00 to 27.00 lb	8 ft	Yes	8 lb	13 ⅞ in	3 ⅜ in	8 ¾ in	Hubbell	BG-25-L	**1YMP9**	*
Industrial Tool Retractors										
4.00 to 9.00 lb	8 ft	No	6.28 lb	7 9⁄16 in	7 9⁄16 in	3 ⅞ in	Speedaire	5YAP0	**5YAP0**	
9.00 to 13.00 lb	8 ft	No	6.61 lb	7 9⁄16 in	7 9⁄16 in	3 ⅞ in	Speedaire	5YAP2	**5YAP2**	
13.20 to 17.60 lb	6.5 ft	No	5.5 lb	11 ⅛ in	5 ⅞ in	3 ⅜ in	Ingersoll Rand	BMDS-8	**6EPV8**	
Production Tool Retractors										
1.00 to 2.00 lb	5 ft	No	1.39 lb	4 7⁄16 in	4 7⁄16 in	2 ⅜ in	Speedaire	5YAP1	**5YAP1**	
2.00 to 4.00 lb	5 ft	No	1.48 lb	4 7⁄16 in	4 7⁄16 in	2 ⅜ in	Speedaire	5YAP3	**5YAP3**	
2.20 to 5.50 lb	6.5 ft	No	4.4 lb	11 ⅛ in	5 ⅞ in	3 ⅜ in	Ingersoll Rand	BMDS-2	**6EPW0**	
4.00 to 6.00 lb	5 ft	No	1.74 lb	4 7⁄16 in	4 7⁄16 in	2 ⅜ in	Speedaire	5YAN8	**5YAN8**	
4.40 to 8.80 lb	6.5 ft	No	4.4 lb	11 ⅛ in	5 ⅞ in	3 ⅜ in	Ingersoll Rand	BMDS-4	**6EPV9**	
6.00 to 8.00 lb	8 ft	No	6.28 lb	7 9⁄16 in	7 9⁄16 in	3 ⅞ in	Speedaire	5YAN7	**5YAN7**	

** Hook -to-hook height, cable retracted.*

Ingersoll Rand

Air Hose Reel Tool Retractors

- No ratchet lock
- 11¾"H x 5¾"W x 4⅛"D

Retractors use the air hose, instead of cables, to suspend air tools.

For Tool Weighing	Hose Length	Reel Weight	Mfr. Model	Item No.
0.90 to 1.70 lb	4.25 ft	2.6 lb	BHR-8	**1YTG7**
1.50 to 3.30 lb			BHR-15	**1YTG8**
2.60 to 5.50 lb		2.9 lb	BHR-25	**1YTG9**

1YTG9

Air Guns Information

Also known as blow guns, they deliver a high-pressure airstream to help clear chips and debris, and cool or dry machinery and parts.

SOUND LEVEL

Measures air tool noise output in decibels (dB). There are no regulations specific to air tool sound levels, but they contribute to workplace noise. OSHA standard 1910.95 establishes guidelines for occupational noise exposure based on the level of sound and duration of exposure.

OUTPUT THRUST

The force in pounds (lb.) that air guns produce to move debris. The higher the number, the greater the force. Thrust is measured using 100 psi operating pressure with readings taken 3" from the end of the nozzle.

OSHA PRESSURE COMPLIANT

OSHA standard 1910.242(b) requires that pressurized air used for cleaning not exceed 30 psi. Air tools that are compliant have vents or other relief devices that drop pressure below 30 psi if nozzles get blocked (dead ended) against someone's body. They prevent excessive air pressure which can cause injuries or death.

NOMINAL EXTENSION LENGTH

Attach to compatible air guns and increase their length for cleaning hard-to-reach areas.

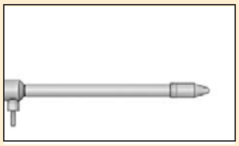
Focused Air Flow Pattern

Chip Protect Air Flow Pattern

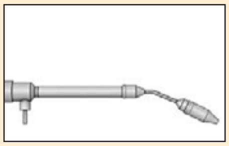
Wide Air Flow Pattern

AIRFLOW PATTERN

Focused: Provides a high pressure, concentrated airflow that can be directed to a specific spot. **Chip Protect:** Delivers a center airstream that can move debris while an outer air curtain deflects flying chips and dust away from the user. **Wide:** Creates a squeege effect for more effective drying of most surfaces.



Straight Nozzle Angle



Angled Nozzle

Flexible Nozzle Angle

NOZZLE ANGLE

Straight: Long length provides an extended reach. **Angled:** Eases access to tight spaces compared to a straight nozzle. **Flexible:** Can bend around obstructions for more access in tight spaces.

Pistol-Grip Air Guns

GUARDAIR. SPEEDAIRE

- Air inlet: (F)NPT
- OSHA Pressure Compliant

Deliver a high-pressure airstream to clear chips and debris, cool or dry machinery and parts, eject or convey parts, and clean hose assemblies. Have a trigger in front of the handle for fingertip control of the high-pressure airstream and include a nozzle. Models with an included chip guard help keep debris from flying back at the user.

No Ext. Straight Nozzle 19A847

6 in. Ext. Angled Nozzle 3MNR2

12 in. Ex. Flexible Nozzle 39AR04

Sound Level	Output Thrust	Air Flow Pattern	Air Inlet	Nozzle Tip Material	Brand	Item No.	
No Extension Included							
Straight Nozzle Angle							
71 dB	0.6 lbf	Focused	⅜ in	Aluminum	Guardair	**39AR41**	
74 dB	0.81 lbf	Focused	¼ in	Plastic	Guardair	**39AR17**	
79 dB	0.75 lbf	Focused	¼ in	Aluminum	Guardair	**39AR11**	
80 dB	1 lbf	Focused	⅜ in	Brass	Guardair	**39AR36**	
82 dB	1.9 lbf	Focused	¼ in	Aluminum	Guardair	**39AR22**	
83 dB	2.2 lbf	Focused	⅜ in	Aluminum	Guardair	**39AR42**	
87 dB	3.3 lbf	Focused	¼ in	Aluminum	Guardair	**39AR44**	
93 dB	1.1 lbf	Focused	¼ in	Aluminum	Guardair	**3MNT1**	
98 dB	0.6 lbf	Focused	¼ in	Brass	Guardair	**3MNR4**	
100 dB	0.6 lbf	Focused	¼ in	Brass	Guardair	**1CJG5**	
102 dB	0.4 lbf	Focused	¼ in	Aluminum	Guardair	**3MNR6**	†
103 dB	1.6 lbf	Focused	¼ in	Aluminum	Speedaire	**2TEH2**	
104 dB	1 lbf	Focused	¼ in	Aluminum	Guardair	**3MNP9**	†
108 dB	2.5 lbf	Focused	¼ in	Aluminum	Guardair	**19A847**	
113 dB	0.5 lbf	Chip Protect	¼ in	Rubber	Guardair	**19A830**	
6 in Nominal Extension Length							
Angled Nozzle Angle							
103 dB	0.1 lbf	Focused	¼ in	Aluminum	Guardair	**3MNR2**	†
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLX9**	*
99 dB	1.5 lbf	Focused	¼ in	Aluminum	Guardair	**38M274**	
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ3**	
101 dB	3.3 lbf	Focused	¼ in	Zinc Alloy	Guardair	**19A829**	
104 dB	0.5 lbf	Chip Protect	¼ in	Aluminum	Guardair	**19A850**	†
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLP9**	*
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**19A840**	
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU7**	
12 in Nominal Extension Length							
Angled Nozzle Angle							
103 dB	0.1 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU0**	†
Flexible Nozzle Angle							
93 dB	1.1 lbf	Focused	¼ in	Aluminum	Guardair	**39AR04**	
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLY2**	*
99 dB	1.5 lbf	Focused	¼ in	Aluminum	Guardair	**19RT38**	
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ4**	
103 dB	1.9 lbf	Focused	¼ in	Aluminum	Speedaire	**2TEH3**	
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**1RF80**	
107 dB	2 lbf	Focused	¼ in	Nylon	Guardair	**19A822**	
108 dB	2.8 lbf	Focused	¼ in	Alloy	Guardair	**41MV88**	
18 in Nominal Extension Length							
Angled Nozzle Angle							
103 dB	0.1 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU1**	†
Flexible Nozzle Angle							
93 dB	1.1 lbf	Focused	¼ in	Aluminum	Guardair	**39AR13**	
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLY4**	*
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ5**	
104 dB	0.5 lbf	Focused	¼ in	Brass	Guardair	**41MV90**	†
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLP3**	
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**19A841**	
24 in Nominal Extension Length							
Flexible Nozzle Angle							
93 dB	1.1 lbf	Focused	¼ in	Aluminum	Guardair	**39AR38**	
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLY6**	*
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLX1**	
99 dB	1.5 lbf	Focused	¼ in	Aluminum	Guardair	**1RF88**	
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ6**	
101 dB	3.3 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLU4**	
103 dB	1.6 lbf	Focused	¼ in	Aluminum	Speedaire	**2TEJ2**	
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLR6**	*
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**1RF81**	
107 dB	2 lbf	Focused	¼ in	Nylon	Guardair	**19A823**	
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**1RF84**	
121 dB	13.5 lbf	Focused	¾ in	Aluminum	Guardair	**1CJF4**	
36 in Nominal Extension Length							
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLX3**	
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ7**	
101 dB	3.3 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLU6**	
103 dB	1.6 lbf	Focused	¼ in	Aluminum	Speedaire	**2TEJ3**	
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**1RF82**	
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**1RF85**	
121 dB	13.5 lbf	Focused	¾ in	Aluminum	Guardair	**3KRE9**	
48 in Nominal Extension Length							
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3KMD2**	
99 dB	1.5 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU4**	
101 dB	3.3 lbf	Focused	⅜ in	Aluminum	Guardair	**4FE82**	*
103 dB	1.6 lbf	Focused	¼ in	Aluminum	Speedaire	**2TEJ4**	
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLT1**	*
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**4FE78**	
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU9**	
121 dB	13.5 lbf	Focused	¾ in	Aluminum	Guardair	**1CJF5**	
60 in Nominal Extension Length							
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLX5**	
101 dB	1.1 lbf	Focused	¼ in	Brass	Guardair	**3APZ9**	
101 dB	7.1 lbf	Focused	¾ in	Aluminum	Guardair	**5GAW1**	
104 dB	2.8 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLT3**	*
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**5GAV0**	
121 dB	13.5 lbf	Focused	¾ in	Aluminum	Guardair	**3KRF1**	
72 in Nominal Extension Length							
Straight Nozzle Angle							
97 dB	1.9 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLX7**	
101 dB	3.3 lbf	Focused	⅜ in	Aluminum	Guardair	**3MLV3**	
101 dB	7.1 lbf	Focused	¾ in	Aluminum	Guardair	**5GAW2**	
107 dB	2 lbf	Focused	¼ in	Aluminum	Guardair	**5GAU6**	
121 dB	13.5 lbf	Focused	¾ in	Aluminum	Guardair	**1CJF6**	
96 in Nominal Extension Length							
Straight Nozzle Angle							
108 dB	2.8 lbf	Focused	¼ in	—	Guardair	**24JV42**	
144 in Nominal Extension Length							
Straight Nozzle Angle							
108 dB	2.8 lbf	Focused	¼ in	Aluminum	Guardair	**19A846**	

*†Chip Guard included. * Long Trigger.*

For more information on Air Guns, see page 2515.

GUARDAIR. SPEEDAIRE

Thumb-Lever Air Guns

6" Extension Straight Nozzle 458J43

12" Extension Angled Nozzle 391R85

- Focused air flow pattern
- Air inlet: ¼" (F)NPT

Deliver a high-pressure airstream and have a lever on top of the body to form a compact handpiece that can reach into tight spaces where pistol-grip air guns won't fit.

Sound Level	OSHA Pressure Compliant	Output Thrust	Extension Size	Nozzle Tip Material	Brand	Item No.
No Extension Included						
Straight Nozzle Angle						
89 dB	Yes	0.9 lbf	0	Aluminum	Guardair	**5GAT9**
97 dB	Yes	0.2 lbf	0	Aluminum	Guardair	**19A855**
97 dB	Yes	1.1 lbf	0	Aluminum	Guardair	**5GAT2**
Less than 6 in Nominal Extension Length						
Angled Nozzle Angle						
85 dB	Yes	0.4 lbf	4 in	Stainless Steel	Guardair	**395P04**
Straight Nozzle Angle						
85 dB	Yes	0.4 lbf	4 in	Stainless Steel	Guardair	**391R84**
95 dB	No	0.2 lbf	4 ¼ in	Brass, Steel Brush	Speedaire	**52CF77**
98.1 dB	No	0.7 lbf	⅜ in	Brass	Speedaire	**22YK46**
101 dB	No	0.7 lbf	1 5⁄16 in	Rubber	Speedaire	**22YK50**
102 dB	Yes	0.7 lbf	½ in	Brass	Speedaire	**22YK47**
104 dB	Yes	0.1 lbf	3 ¼ in	Aluminum	Speedaire	**458J41**
104 dB	Yes	0.6 lbf	3 in	Brass	Guardair	**39AR28**
104 dB	Yes	0.6 lbf	3 in	Steel	Speedaire	**458J36**
110 dB	Yes	0.8 lbf	1 ½ in	Brass	Speedaire	**22YK51**
112 dB	Yes	0.2 lbf	3 15⁄16 in	Aluminum	Speedaire	**22YK53**
6 in Nominal Extension Length						
Straight Nozzle Angle						
100 dB	Yes	1.1 lbf	6 in	Aluminum	Guardair	**5GAT3**
100 dB	Yes	1.3 lbf	6 in	Aluminum	Speedaire	**458J43**
104 dB	Yes	0.6 lbf	6 in	Steel	Speedaire	**458J37**
104 dB	Yes	0.6 lbf	6 in	Brass	Guardair	**39AR37**
12 in Nominal Extension Length						
Angled Nozzle Angle						
85 dB	Yes	0.4 lbf	12 in	Stainless Steel	Guardair	**391R85**
Straight Nozzle Angle						
90 dB	Yes	0.1 lbf	12 ¾ in	Brass	Speedaire	**52CF71**
100 dB	Yes	1.1 lbf	12 in	Aluminum	Guardair	**5GAT4**
100 dB	Yes	1.1 lbf	12 in	Nylon	Guardair	**19A831**
100 dB	Yes	1.3 lbf	12 in	Aluminum	Speedaire	**458J44**
104 dB	Yes	0.4 lbf	12 in	Steel	Speedaire	**458J38**
104 dB	Yes	0.6 lbf	12 in	Brass	Guardair	**39AR43**
18 in Nominal Extension Length						
Straight Nozzle Angle						
100 dB	Yes	1.1 lbf	18 in	Aluminum	Guardair	**5GAT5**
100 dB	Yes	1.3 lbf	18 in	Aluminum	Speedaire	**458J45**
104 dB	Yes	0.4 lbf	18 in	Steel	Speedaire	**458J39**
104 dB	Yes	0.6 lbf	18 in	Brass	Guardair	**39AR06**
24 in Nominal Extension Length						
Angled Nozzle Angle						
85 dB	Yes	0.4 lbf	24 in	Stainless Steel	Guardair	**391R89**
Straight Nozzle Angle						
95 dB	Yes	0.7 lbf	24 ¾ in	Brass	Speedaire	**52CF67**
96 dB	No	0.7 lbf	24 in	Rubber	Speedaire	**22YK54**
100 dB	Yes	1.1 lbf	24 in	Aluminum	Guardair	**5GAT6**
100 dB	Yes	1.1 lbf	24 in	Nylon	Guardair	**19A832**
36 in Nominal Extension Length						
Straight Nozzle Angle						
90 dB	Yes	0.7 lbf	36 in	Brass	Speedaire	**52CF69**
94.5 dB	No	0.7 lbf	36 in	Rubber	Speedaire	**22YK55**
100 dB	Yes	1.1 lbf	36 in	Aluminum	Guardair	**5GAT7**
100 dB	Yes	1.3 lbf	36 in	Aluminum	Speedaire	**458J47**
48 in Nominal Extension Length						
Straight Nozzle Angle						
90 dB	Yes	0.7 lbf	48 in	Brass	Speedaire	**52CF66**
95 dB	No	0.7 lbf	48 in	Rubber	Speedaire	**22YK56**
100 dB	Yes	1.1 lbf	48 in	Aluminum	Guardair	**19A853**
100 dB	Yes	1.3 lbf	48 in	Aluminum	Speedaire	**458J48**
60 in Nominal Extension Length						
Straight Nozzle Angle						
100 dB	Yes	1.1 lbf	60 in	Aluminum	Guardair	**41MV91**
100 dB	Yes	1.3 lbf	60 in	Aluminum	Speedaire	**458J49**
72 in Nominal Extension Length						
Straight Nozzle Angle						
100 dB	Yes	0.8 lbf	72 in	Aluminum	Speedaire	**458J50**
100 dB	Yes	1.1 lbf	72 in	Aluminum	Guardair	**19A854**

41HE59

458J51

Adjustable Pocket-Grip Air Guns

legacy SPEEDAIRE

- Focused air pattern
- Straight nozzle angle

The inline design aligns the nose with the handle to form a slim, cylindrical body to access recesses and tight spaces and deliver a high-pressure airstream. The included nozzle rotates to adjust airflow for detailed cleaning and blowing.

Sound Level	Output Thrust	Air Inlet	Body Material	Overall Length	Brand	Item No.
87 dB	—	¼" ARO	Anodized Aluminum	4 ¼ in	Legacy	**41HE59**
98 dB	0.7 lbf	¼" Automotive	Aluminum	4 1⁄10 in	Speedaire	**458J51**

GUARDAIR.

Ergonomic-Grip Air Guns

6" Extension 3APY4

- Focused air flow pattern
- Straight nozzle angle
- OSHA Pressure Compliant

Grip sets the wrist in a natural position and reduces hand fatigue for a comfortable hold during extended use. Have a long lever to hold down while gripping the tool and delivering a high-pressure airstream.

Sound Level	Output Thrust	Air Inlet	Nozzle Tip Material	Item No.
No Extension Included Nominal Extension Length				
100 dB	0.6 lbf	¼ in	Brass	**1CJG4**
6 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY4**
12 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY5**
18 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY6**
24 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY7**
101 dB	7.1 lbf	¾ in	Aluminum	**5GAW3**
121 dB	12 lbf	¾ in	Aluminum	**1CJF7**
121 dB	12 lbf	¾ in	Hardened Steel	**1CJG1**
36 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY8**
101 dB	7.1 lbf	¾ in	Aluminum	**5GAW4**
121 dB	12 lbf	¾ in	Aluminum	**5GAV4**
121 dB	12 lbf	¾ in	Hardened Steel	**5GAV5**
48 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APY9**
101 dB	7.1 lbf	¾ in	Aluminum	**5GAW5**
121 dB	12 lbf	¾ in	Aluminum	**1CJF8**
121 dB	12 lbf	¾ in	Hardened Steel	**1CJG2**
60 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APZ1**
101 dB	7.1 lbf	¾ in	Aluminum	**5GAW6**
121 dB	12 lbf	¾ in	Hardened Steel	**5GAV7**
121 dB	12 lbf	¾ in	Aluminum	**5GAV6**
72 in Nominal Extension Length				
101 dB	0.9 lbf	¼ in	Aluminum	**3APZ2**
101 dB	7.1 lbf	¾ in	Aluminum	**5GAW7**
121 dB	12 lbf	¾ in	Aluminum	**1CJF9**
121 dB	12 lbf	¾ in	Hardened Steel	**1CJG3**

Ergonomic-Grip 5JEL1

Pistol-Grip 52CF85

Thumb-Lever 52CF65

Air Gun Kits

GUARDAIR. SPEEDAIRE

- Straight nozzle angle
- Air inlet: ¼" (F)NPT

Each kit comes with an air gun and included accessories.

Extension Size	Sound Level	OSHA Pressure Compliant	Output Thrust	Air Flow Pattern	Includes	Brand	Item No.
Ergonomic-Grip Air Gun Kits							
3 in, 6 in	100 dB	Yes	0.6 lbf	Focused	¼ in NPT Industrial Interchange Connector, (2) Extensions, Brass Booster Nozzle, Brass Venturi Nozzle, Rubber Tip Nozzle	Guardair	**5JEL1**
Pistol-Grip Air Gun Kits							
1 in	103 dB	No	1.8 lbf	Focused	¼ in Male Plug, Needle Tip, Extension Safety Tip, Inflating Tip, Metal Blow Gun, Plastic Blow Gun, Plastic Tip, Rubber Tip, Safety Booster Tip, Siphon Tip	Speedaire	**52CF84**
1 ½ in	94 dB	No	0.2 lbf	Wide	(4) Rubber Focus Nozzles, 8.5 oz Blast Grit, Bag, Template	Speedaire	**52KD70**
3 in	90 dB	No	0.2 lbf, 0.4 lbf	Focused, Wide	Air Nozzle, Air Screen Tip, Safety Booster Tip	Speedaire	**52CF85**
3 in, 6 in	100 dB	Yes	0.6 lbf	Focused	¼ in NPT Industrial Interchange Connector, (2) Extensions, Brass Booster Nozzle, Brass Venturi Nozzle, Rubber Tip Nozzle	Guardair	**5JEL2**
4 in	81 dB	No	0.2 lbf	Focused	Bypass Nozzle, Chip Shield, High Flow Nozzle, Rubber Nozzle Tips	Speedaire	**52KD68**
4 in	97 dB	No	0.7 lbf	Focused	Air Nozzle, Hose, 4 in Thread Tube, Ball Needle, Chip Shield, Milton Coupler Plug, Rubber Tip, Safety Nozzle, Siphon Body, Standard Tip, Tire Inflator Nozzle, Tru-Flate Coupler Plug	Speedaire	**52CF74**
8 in	92 dB	No	0.7 lbf	Focused	360° Rotatable Nozzle, Fitting Adapter, Inflator Nozzle, Needle Inflator, Tire Inflator	Speedaire	**52KD66**
8 ¾ in, 12 ¾ in	92 dB	No	0.7 lbf	Focused	(2) ¼ in FNPT Plugs, (5) ¼ in MNPT Plugs, ¼ in FNPT Coupler, ¼ in MNPT Nipples, ¼ in MNPT Quick Coupler, Ball Tire Chuck, Extension Adapter, Inflator Needles, Key Ring, Nozzle, Pencil Tire Gauge, PVC Padded Case, Rubber Tip Extension, Tire Inflator	Speedaire	**52KD69**
Thumb-Lever Air Gun Kits							
—	103 dB	No	0.6 lbf	Focused	(1) ¼ in FNPT Coupler, (2) ¼ in FNPT Plugs, (2) ¼ in MNPT Nipples, (4) ¼ in MNPT Plugs, ¼ in FNPT Coupling, Adapter for Inflators, Dual Foot Chuck, Inflation Needle, Safety Nozzle, Tapered Inflater, Tire Gauge	Speedaire	**1KUF4**
½ in	92 dB	No	0.6 lbf	Focused	Aluminum Tip, Adjustable Tip, Air Screen Tip, Rubber Tip, Safety Booster Tip, Safety Tip, Steel Tip	Speedaire	**52CF65**
½ in	95.8 dB	No	0.7 lbf	Focused	Inflator Needle Tip, Rubber Tip, Safety Nozzle, Standard Tip	Speedaire	**22YK41**

For more information on Air Guns, see page 2515.

Air Gun Nozzles

Connect to the nose of an air gun to regulate airflow. They concentrate air pressure to increase airflow velocity and force, focus air in a specific pattern, and control air consumption to reduce noise and use compressed air more efficiently than an open nose. Use to replace worn nozzles or change to different styles to suit specific applications. **Nozzles are typically compatible with guns of a specific brand and model.**

Go to Grainger.com for a complete list of air gun compatibility.

Breco Brass 4TL19

Dyna-Con Brass 4TL15

Exair Stainless Steel 4LCU1

Guardair Aluminum 42FL42

Speedaire PVC 22YK61

Extension Length	Inlet Size	OSHA Pressure Compliant	Sound Level	Output	Compatible with Series	Item No.
Breco Air Gun Nozzles						
Brass Nozzle Tip Material						
7/8"	1/8 in MNPT	No	90 dB	—	Breco	4TL14
15/16"	1/8 in MNPT	No	85 dB	—	Breco	4TL19
1 1/4"	1/8 in MNPT	No	89 dB	—	Breco	5X787
Dyna-Con Air Gun Nozzles						
Brass Nozzle Tip Material						
4"	1/8 in MNPT	No	—	—	Breco	4TL15
12"	1/8 in MNPT	No	—	—	Breco	4TL16
Exair Air Gun Nozzles						
Aluminum, Zinc Nozzle Tip Material						
1 3/16"	1/8 in FNPT	Yes	71 dB	9 ozf	—	4LCR4
1 5/16"	1/8 in FNPT	Yes	75 dB	9.8 ozf	—	20CL70
1 5/8"	3/8 in FNPT	Yes	82 dB	1.9 lbf	—	4LCT5
1 21/32"	1/8 in MNPT	Yes	71 dB	9 ozf	—	4LCR6
1 3/4"	1/4 in FNPT	Yes	74 dB	12 ozf	—	4LCR8
2"	1/2 in FNPT	Yes	87 dB	3.3 lbf	—	4LCT9
2 1/16"	1/4 in FNPT	Yes	77 dB	22 ozf	—	4LCT3
2 1/4"	3/8 in MNPT	Yes	82 dB	1.9 lbf	—	4LCT7
2 1/2"	3/4 in FNPT	Yes	96 dB	4.5 lbf	—	36JP27
2 9/16"	3/8 in FNPT	Yes	82 dB	3.2 lbf	—	36JP41
2 3/4"	1/2 in MNPT	Yes	87 dB	3.3 lbf	—	4LCU2
2 15/16"	1 in FNPT	Yes	89 dB	9.8 lbf	—	36JP43
3"	1 in FNPT	Yes	99 dB	6.6 lbf	—	36JP31
3 1/2"	3/4 in MNPT	Yes	96 dB	4.5 lbf	—	36JP29
3 5/8"	1 1/4 in FNPT	Yes	106 dB	15 lbf	—	36JP37
4 3/16"	1 in MNPT	Yes	99 dB	6.6 lbf	—	36JP33
4 15/16"	1 1/4 in MNPT	Yes	102 dB	9.4 lbf	—	36JP36
Stainless Steel Nozzle Tip Material						
1/2"	M4 x 1/2 in	Yes	58 dB	2.0 ozf	—	15J053
5/8"	M5 x 1/2 in	Yes	68 dB	5.0 ozf	—	15J055
25/32"	M6 x 3/4 in	Yes	75 dB	8.1 ozf	—	15J057
1"	1/8 in MNPT	Yes	68 dB	5.0 ozf	—	15J056
1 1/16"	1/8 in MNPT	Yes	75 dB	8.1 ozf	—	15J058
1 3/16"	1/8 in FNPT	Yes	71 dB	9 ozf	—	4LCR5
1 5/16"	1/8 in FNPT	Yes	75 dB	9.8 ozf	—	20CL71
1 5/16"	1/8 in FNPT	Yes	82 dB	1 lbf	—	36JP22
1 5/8"	3/8 in FNPT	Yes	82 dB	1.9 lbf	—	4LCT6
1 3/4"	1/4 in FNPT	Yes	74 dB	13 ozf	—	4LCR9
2"	1/2 in FNPT	Yes	87 dB	3.3 lbf	—	4LCU1
2 1/16"	1/4 in FNPT	Yes	77 dB	22 ozf	—	4LCT4
2 1/4"	3/8 in MNPT	Yes	82 dB	1.9 lbf	—	4LCT8
2 3/8"	1/4 in MNPT	Yes	74 dB	13 ozf	—	4LCT2
2 3/4"	1/2 in MNPT	Yes	87 dB	3.3 lbf	—	4LCU3
3"	1 in FNPT	Yes	99 dB	6.6 lbf	—	36JP32
3 1/2"	3/4 in MNPT	Yes	96 dB	4.5 lbf	—	36JP30
4 3/16"	1 in MNPT	Yes	99 dB	6.6 lbf	—	36JP34
Thermoplastic Nozzle Tip Material						
1/2"	M4 x 1/2 in	Yes	58 dB	2.0 ozf	—	38W842
1/2"	1/8 in MNPT	Yes	58 dB	2.0 ozf	—	38W843
25/32"	M6 x 3/4 in	Yes	75 dB	8.1 ozf	—	15J059
1"	1/8 in MNPT	Yes	68 dB	5.0 ozf	—	38W845
1 1/16"	1/8 in MNPT	Yes	75 dB	8.1 ozf	—	38W846
1 3/16"	1/8 in FNPT	Yes	71 dB	9 ozf	—	6JJN6
1 5/8"	3/8 in FNPT	Yes	82 dB	1.9 lbf	—	20CL69
1 3/4"	1/4 in FNPT	Yes	74 dB	9 ozf	—	6JJN5
Zinc Nozzle Tip Material						
2 3/8"	1/4 in MNPT	Yes	74 dB	13 ozf	—	4LCT1
Guardair Air Gun Nozzles						
Aluminum Nozzle Tip Material						
2 3/32"	3/4 in UNF	Yes	99 dBA	1.5 lbf	80LJ Series, U80LJ Series	24JV38
2 3/32"	3/4 in UNM	Yes	93 dBA	1.1 lbf	80 Series, 80WJ Series, U80WJ Series	24JV39
2 3/32"	1/4 in NTP	Yes	20 dBA	0.4 lbf	Flex Series, Thumbswitch Series	24JW11
2 1/2"	5/8"-28	Yes	107 dBA	2 lbf	75LJ Series, U75LJ Series	19A843
2 1/2"	3/4 in	Yes	108 dB	2.8 lbf	75XT Series, U75XT Series	38M268
2 29/32"	1/2 in FNPT	—	101 dB	7.1 lbf	Force 5 Series, Inforcer Series	42FL35
3 19/64"	1/2 in FNPT	Yes	99 dB	13.5 lbf	Hydroforce Series	42FL42
5 51/64"	1/2 in FNPT	Yes	121 dBA	13.5 lb	Force 5, Inforcer	269P14
6 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW16
6 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV04
12 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW17
12 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV05
12 1/2"	1/4 in FNPT	Yes	108 dBA	2.8 lbf	75XT Series	24JV14
18 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW18
18 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV06
24 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW19
24 1/2"	1/4 in FNPT	Yes	108 dBA	2.8 lbf	75XT Series	24JV16
36 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW20
36 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV08
36 1/2"	1/4 in FNPT	Yes	108 dBA	2.8 lbf	75XT Series	24JV17
48"	1/2"-14 NPT	Yes	101 dB	7.1 lbf	Guardair Force 5, Inforcer	19A857
48 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW21
48 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV09
60 13/32"	1/4 in FNPT	Yes	100 dBA	1.1 lbf	900LJ Series	24JW22
60 1/2"	1/4 in FNPT	Yes	107 dBA	2 lbf	75LJ Series	24JV10
60 1/2"	1/4 in FNPT	Yes	108 dBA	2.8 lbf	75XT Series	24JV19
72 13/32"	1/4 in FNPT	Yes	99 dBA	1.5 lbf	80LJ Series	24JV37
72 1/2"	1/4 in FNPT	Yes	108 dBA	2.8 lbf	75XT Series	24JV20
Brass Nozzle Tip Material						
1/2"	1/8 in MNPS	Yes	102 dBA	0.4 lbf	JetGuard Series	24JU96
1/2"	—	Yes	—	—	Guardair 74BH Series	787MH9
29/32"	1/8 in	Yes	100 dB	0.6 lbf	Lazer Series	3KMD3
1 13/32"	1/8 in MNPS	Yes	102 dBA	0.4 lbf	AirMiser Series	24JW05
Metal Nozzle Tip Material						
1 51/64"	—	—	—	—	Oil Gun Series, Syphon Spray Gun Series	24JV45
Nylon Nozzle Tip Material						
2 1/2"	5/8 in UNM	Yes	107 dBA	2 lbf	75LJ Series, U75LJ Series	19A844
2 1/2"	5/8 in UNM	Yes	107 dBA	2.8 lbf	75XT Series, U75XT Series	24JV21
Rubber Nozzle Tip Material						
1 13/32"	1/8 in MNPS	Yes	113 dBA	0.4 lbf	Lazer Series	24JW06
Stainless Steel Nozzle Tip Material						
51"	1/2 in	Yes	99 dB	13.5 lbf	Hydroforce Series	19A838
Steel Nozzle Tip Material						
2 1/2"	5/8 in UNM	Yes	107 dBA	2 lbf	75LJ Series, U75LJ Series	24JV12
2 1/2"	5/8 in UNM	Yes	107 dBA	2.8 lbf	75XT Series, U75XT Series	24JV22
3"	1/8 in	Yes	—	0.6 lbf	Lazer Series	3KMD5
6"	1/8 in	Yes	—	0.6 lbf	Lazer Series	3KMD6
6 13/32"	1/2 in FNPT	—	121 dB	12 lbf	Force 5 Series, Inforcer Series	42FL49
12"	1/8 in	Yes	—	0.6 lbf	Lazer Series	3KMD7
18"	1/8 in	Yes	—	0.6 lbf	Lazer Series	3KMD8
38 51/64"	1/2 in NPT	Yes	121 dB	12 lbf	Force 5 Series, Inforcer Series	42FL50
62 51/64"	1/2 in NPT	Yes	121 dB	12 lbf	Force 5 Series, Inforcer Series	42FL52
Zinc Nozzle Tip Material						
1 51/64"	—	Yes	79 dBA	—	—	787MH6
Speedaire Air Gun Nozzles						
Aluminum Nozzle Tip Material						
2"	1/2"-20 MUNF	No	103 dB	—	—	22YK63
Brass, Rubber Nozzle Tip Material						
1 1/2"	1/8 in MNPT	No	96 dB	—	—	22YK67
1 1/2"	7/16"-20 MUNF	No	96 dB	—	—	22YK69
Brass Nozzle Tip Material						
1 3/4"	1/8 in MNPSM	No	103 dB	—	—	22YK59
2"	1/8 in MNPT	No	82 dB	—	—	22YK66
PVC Nozzle Tip Material						
1 1/8"	1/4 in	No	93 dB	—	—	22YK61
Rubber Nozzle Tip Material						
1"	1/4 in	No	96 dB	—	—	22YK68
Steel Nozzle Tip Material						
3"	1/4 in FNPT	No	96 dB	90 psi	—	22YK82

Aluminum 24JU92

Air Gun Extensions

Attach to compatible air guns and increase their length for cleaning hard-to-reach areas.

Compatible with Mfr. Model No.	Overall Length	Item No.
Aluminum		
75LJ, 75XT, U75LJ, U75XT	4 1/2"	24JU97
	10 1/2"	24JU98
	16 1/2"	24JU99
	22 1/2"	24JU92
	34 1/2"	24JU93
	46 1/2"	24JV01
	58 1/2"	24JV02
	70 1/2"	24JV03
80LJ	4 3/4"	24JV23
	10 3/4"	24JV25
	16 3/4"	24JV27
	22 3/4"	24JV29
	34 3/4"	24JV31
	46 3/4"	24JV33
	58 3/4"	24JV35
	70 3/4"	24JV36
Brass		
74BH	7 1/2"	24JV97
	13 1/2"	24JV98
	19 1/2"	24JV99
74S, 74SK	6 1/4"	24JW01
	12 1/4"	24JW02
	18 1/4"	24JW03
	24 1/4"	24JW04

Chip Shields

Deflect chips, debris, and coolant away from air gun users to help prevent injuries and keep material contained. Clear plastic construction and fit onto the nose of compatible air guns. Size: 4" dia.

22YK83

Hole Diameter	Compatible with Mfr. Model No.	Brand	Item No.
1/4 in	22YK37, 22YK38, 22YK39, 22YK40	Speedaire	22YK83
3/4 in	22YK37, 22YK38, 22YK39, 22YK40	Speedaire	22YK84
5/8 in	AG1092-GRA	Cyclone	41HE60

Magnetic Air Gun Holder

Sticks to steel and other ferrous metal surfaces and provides a holster for the air gun when it's not in use. Holder is commonly mounted to the side of a metal cabinet or equipment to keep air gun close at hand without taking up work space or storage space.

Material	Overall Length	Dia.	Item No.
Polyethylene	12 in	3 1/4 in	4FE83

Air-Powered Vacuum Guns and Accessories

VIKING GUARDAIR

Combination Vacuum & Air Gun
46D306

Create suction to draw debris through the vacuum nozzle and into a removable collection bag, or attach to a hose to collect debris in a larger container. The handpiece connects to a compressed air supply and a trigger or other actuator that starts and stops suction.

Combination Vacuum and Air Gun—Can switch between suction and blowing modes so one tool can blow away material and vacuum up debris.

Flexible-Nozzle
3APY1

Fixed-Nozzle
3APY2

Number of Nozzles Included	Nozzle Length	Air Consumption	Sound Level	Collection Bag Included	Air Inlet	Vacuum Gun Nozzle Type	Includes	Brand	Mfr. Model	Item No.
Combination Vacuum & Air Guns										
0	—	3.4 cfm	97 dB	Yes	¼ in NPT Female	Air Gun and Vacuum Gun	Crevice Tool, Dust Bag, Extension Tube, Flexible Extension Hose, Orifice Tool, Rotatable Brush, Thumb-Grip Clamp	Viking Air Tools	VT9806	**46D306**
Fixed-Nozzle Vacuum Guns										
0	—	78 cfm	89 dB	No	¼ in NPT Female		—	Guardair	1500U06	**24JU95**
1	5 in	78 cfm	89 dB	Yes	¼ in NPT Female	Fixed Nozzle	9 in Crevice Tool, High Filtration Collection Bag	Guardair	1500	**3APY2**
1	5 in	78 cfm	89 dB	Yes	¼ in NPT Female	Fixed Nozzle	(5) Pieces Accessory Set, High Filtration Collection Bag	Guardair	1510	**3APY3**
Flexible-Nozzle Vacuum Guns										
1	18 in	78 cfm	89 dB	Yes	¼ in NPT Female	Flexible Nozzle	Flexible Steel Extended Nozzle, High Filtration Collection Bag, Internal Bag Stiffener	Guardair	1548	**3APY1**

Item	Compatible with Mfr Model No.	Includes	Brand	Item No.
Air-Powered Vacuum Gun Accessories				
Vacuum Hose Cuff	1500, 1510	1 ¼ in Inlet/Outlet PVC Hose Cuff	Guardair	**3ARC3**
Mini Vacuum Attachment Kit	1500, 1510	(5) Cleaning Attachments, 3 ft Clear Plastic Hose with 1 in ID Adapter	Guardair	**3ARC1**
High Filtration Collection Bag	1500, 1510, 1548	High Filtration Collection Bag	Guardair	**24JV85**
Air-Powered Vacuum Gun Nozzles & Brushes				
Plastic Wand	1500, 1510	19 in PVC Extension	Guardair	**3ARA3**
Upholstery/Clothes Tool w/ Dual Lint	1500, 1510	—	Guardair	**24JV74**
Air Gun Brush	1500, 1510	—	Guardair	**24JV75**
Air Gun Brush	1500, 1510	12 in Floor Brush	Guardair	**3ARA8**
Air Gun Brush	1500, 1510	Hand-Held Turbo Brush	Guardair	**3ARA6**

Tool
39AR40

Kit
39AR15

AIRSPADE GUARDAIR

Air Excavation Tools and Accessories

Connect to a compatible compressed air supply and deliver a high-pressure airstream to remove soil and debris, especially from areas where shovels and backhoes may damage buried utility lines. Commonly used to dig trenches for new underground lines, uncover buried lines to make repairs, and clear cracks and joints in pavement before sealing.

Air Consumption	Soil Excavation Rate	Minimum Compressor HP	Air Inlet	Brand	Mfr. Model	Item No.
Non-Conductive Barrel & Non-Sparking Nozzle Tools						
4 ft Barrel Length						
105 cfm	1.5 cfm	23 hp	¾ in NPT Female	Airspade	ASU4105G4	**39AR40**
150 cfm	1.8 cfm	33 hp	¾ in NPT Female	Airspade	ASU4150G4	**39AR12**
150 cfm	1.8 cfm	33 hp	¾ in NPT Female	Guardair	HT130	**5JEL8**
225 cfm	2.3 cfm	50 hp	¾ in NPT Female	Airspade	HT138	**5JEL9**
5 ft Barrel Length						
330 cfm	3 cfm	73 hp	¾ in NPT Female	Guardair	LT3000	**5JEM1**
330 cfm	3 cfm	73 hp	1 ¼ in NPT Male	Airspade	LT3000	**39AR10**

Air Consumption	Soil Excavation Rate	Minimum Compressor HP	Air Inlet	Kit Contents	Brand	Mfr. Model	Item No.
Non-Conductive Barrel & Non-Sparking Nozzle Tool Kits							
4 ft Barrel Length							
150 cfm	1.8 cfm	23 hp	¾ in NPT Female	(1) Bare Tool, (1) Barrel with Dirt Shield, (1) Insulated Extension, (1) Nozzle	Airspade	HT107	**5JEL6**
105 cfm	1.5 cfm	23 hp	¾ in NPT Female	(1) Bare Tool, (1) Barrel with Dirt Shield, (1) Insulated Extension, (1) Nozzle	Airspade	ASU4105KT	**39AR35**
105 cfm	1.8 cfm	33 hp	¾ in NPT Female	(1) Bare Tool, (1) Barrel with Dirt Shield, (1) Insulated Extension, (1) Nozzle	Airspade	ASU4150KT	**39AR15**
150 cfm	1.8 cfm	33 hp	¾ in NPT Female	(1) Bare Tool, (1) Barrel with Dirt Shield, (1) Insulated Extension, (1) Nozzle	Airspade	HT106	**5JEL7**

Compatible with Product Type	Compatible with Mfr. Model No.	Overall Length	Includes	Brand	Item No.
Nozzles					
AirSpade 2000	HT130	4 ¼ in	Nozzle	Airspade	**42FL38**
AirSpade 2000	HT138	4 ⅜ in	Nozzle	Airspade	**42FL41**
AirSpade 3000	LT3000	1 ⅞ in	Nozzle	Airspade	**42FL55**
Angle Adapters & Barrel Extension Couplers					
AirSpade 4000	ASU4105G4, ASU4105KT, ASU4150G4, ASU4150KT	5 ½ in	45° Angle Adapter	Airspade	**39AR05**
AirSpade 2000	HT106, HT107, HT138	5 ¾ in	Coupler	Airspade	**5JEL3**
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	2 ½ in	—	Airspade	**39AR21**
Barrel Extensions					
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	25 13⁄64 in	—	Guardair	**39AR25**
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	37 in	—	Airspade	**39AR32**
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	48 in	—	Guardair	**39AR34**
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	49 19⁄64 in	—	Airspade	**39AR24**
Adapter, AirSpade 4000, Nozzle	ASU4105G4, ASU4150G4	60 in	—	Airspade	**39AR20**
Dirt Shield Assemblies					
AirSpade 2000, AirSpade 4000	ASU4105G4, ASU4105KT, ASU4150G4, ASU4150KT, HT106, HT107, HT138	5 ½ in	Dirt Shield	Guardair	**19A859**
AirSpade 2000	HT130, HT138	47 in	Barrel Assembly, Dirt Shield	Airspade	**42FL39**
AirSpade 3000	LT3000	43 ½ in	Barrel Assembly, Dirt Shield	Airspade	**42FL54**

Static-Eliminating Air Cannons, Air Guns, and Accessories

EXAIR SCS

Air Cannons
48RD62

Air Gun
20FX22

Emit an ionized airflow to neutralize static charges and remove dust and debris from objects and surfaces. They prevent dust from sticking to surfaces, stop parts from clinging together, and eliminate static discharge which can damage sensitive electronic components.

Pressure Range	Air Consumption	Sound Level	Nozzle Length	Air Inlet	Includes Adapter	Brand	Mfr. Model	Item No.
Static-Eliminating Air Cannons								
250 psi	18.7 scfm	74 dBA	—	⅜ in NPT Female	—	Exair	8192	**48RD61**
250 psi	24 scfm	85 dBA	—	¼ in NPT Female	Without Adapter	Exair	8193	**48RD62**
Static-Eliminating Air Guns								
20 to 65 psi	22 scfm	70 dBA	8 in	¼ in NPT Male	Adapter Included	SCS	980	**20FX22**
65 psi	—	70 dBA	8 in	¼ in NPT Male	Without Adapter	SCS	980E	**2FZF1**

Product Type	For Use With	Input Voltage	Voltage Output	Frequency	No. of Outlets	Brand	Item No.
Static-Eliminating Air Gun Filters & Nozzles							
Ionizing Air Gun Nozzle Tip	Mfr. No. 980, Mfr. No. 980E	—	—	—	—	SCS	**20FX24**
Ionizing Air Gun Air Filter	Mfr. No. 980, Mfr. No. 980E	—	—	—	—	SCS	**20FX23**
Static-Eliminating Air Gun Power Supplies							
Power Supply	Mfr. No. 8192, Mfr. No. 8193	120/230V AC	5,000V AC	50/60 Hz	2	Exair	**48RD63**

Pneumatic Couplers and Plugs

Universal Interchange fits Automotive, ARO and Industrial Interchange plugs.

30E655

30E597

30E627

30E629

30E595

30E679

30E669

30E530

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Max. Working Pressure @ 70°F	Hose Connec.	Material†	Item No.
ARO Interchange								
NPT								
⅜ in	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	30E559
¼ in	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	304 SS	30E556
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Alum	30E653
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Alum	30E655
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Alum	30E656
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Alum	30E654
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	304 SS	30E554
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	30E557
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	30E558
Automotive								
¼ in	¼ in	¼"-18	Plug	—	150 psi	(M)NPT	Steel	30E597
Automotive Interchange								
Hose Barb								
¼ in	⅜ in	—	Plug	⅜"	300 psi	Hose Barb	Steel	30E740
NPT								
⅜ in	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	30E737
	⅜ in	⅜"-18	Plug	—	400 psi	(M)NPT	304 SS	30E568
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	30E743
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	30E745
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	30E738
¼ in	¼ in	¼"-18	Plug	—	400 psi	(M)NPT	304 SS	30E564
	¼ in	¼"-18	Plug	—	400 psi	(M)NPT	304 SS	30E569
	¼ in	¼"-18	Plug	—	400 psi	(F)NPT	304 SS	30E561
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Steel	30E742
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	30E744
	⅜ in	—	Plug	—	400 psi	(M)NPT	304 SS	30E566
	⅜ in	—	Plug	—	400 psi	(F)NPT	304 SS	30E562
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	30E732
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	30E736
	½ in	½"-14	Plug	—	400 psi	(M)NPT	304 SS	30E567
Global Style Hi-Flow								
Hose Barb								
¼ in	¼ in	—	Plug	¼"	300 psi	Push On Hose Barb	Alum	30E627
	¼ in	—	Socket	¼"	250 psi	Push On Hose Barb	Alum	30E629
	¼ in	—	Socket	¼"	250 psi	Hose Barb	Alum	30E619
	¼ in	—	Plug	¼"	300 psi	Hose Barb	Alum	30E621
	⅜ in	—	Plug	⅜"	300 psi	Push On Hose Barb	Alum	30E628
	⅜ in	—	Socket	⅜"	250 psi	Push On Hose Barb	Alum	30E630
	⅜ in	—	Socket	⅜"	250 psi	Hose Barb	Alum	30E620
	⅜ in	—	Plug	⅜"	300 psi	Hose Barb	Alum	30E622
Industrial								
NPT								
¼ in	¼ in	¼"-18	Plug	—	150 psi	(M)NPT	Steel	30E595
Industrial Interchange								
Hose Barb								
½ in	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	30E672
	½ in	—	Socket	—	300 psi	Hose Barb	Steel	30E695
	½ in	—	Plug	—	300 psi	Hose Barb	Steel	30E673
⅜ in	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	30E694
	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	30E671
¼ in	¼ in	—	Plug	—	300 psi	Push On Hose Barb	Steel	30E674
	¼ in	—	Socket	—	300 psi	Push On Hose Barb	Steel	30E676
	¼ in	—	Socket	—	300 psi	Hose Barb	Steel	30E697
	¼ in	—	Socket	—	300 psi	Hose Barb	Steel	30E679
	¼ in	—	Plug	—	300 psi	Hose Barb	Steel	30E669
	⅜ in	—	Plug	—	300 psi	Push On Hose Barb	Steel	30E675
	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	30E698
	⅜ in	—	Socket	—	300 psi	Hose Barb	Steel	30E680
	⅜ in	—	Plug	—	300 psi	Hose Barb	Steel	30E670
NPT								
½ in	½ in	½"-14	Socket	—	250 psi	(F)NPT	Steel	30E528
	½ in	½"-14	Socket	—	232 psi	(F)NPT	Steel	30E531
	½ in	½"-14	Socket	—	250 psi	(M)NPT	Steel	30E534
	½ in	½"-14	Socket	—	300 psi	(F)NPT	Steel	30E683
	½ in	½" to 14"	Socket	—	300 psi	(M)NPT	Steel	30E690
	¾ in	¾"-14	Socket	—	300 psi	(F)NPT	Steel	30E684
	¾ in	¾"-14	Socket	—	300 psi	(M)NPT	Steel	30E691
⅜ in	¼ in	—	Socket	—	232 psi	(M)NPT	Steel	30E526
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Alum	30E606
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	30E660
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Steel	30E681
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	30E688
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	30E701
	⅜ in	—	Socket	—	232 psi	(M)NPT	Steel	30E527
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	30E551
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Alum	30E607
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Alum	30E611
	⅜ in	⅜"-18	Socket	—	232 psi	(F)NPT	Steel	30E530
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	30E532
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	30E535
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	30E682
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	30E689
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	30E702
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	30E706
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	Steel	30E661
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	30E552

† STL/Alum = Steel/Aluminum, SS = Stainless Steel, Alum = Aluminum, B/S = Brass/Steel.

30E545

30E677

30E703

30E727

30E541

30E536

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Max. Working Pressure @ 70°F	Hose Connec.	Material†	Item No.
¼ in	⅛ in	⅛"-27	Plug	—	300 psi	(M)NPT	Steel	30E658
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	304 SS	30E545
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	304 SS	30E548
	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Alum	30E608
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Alum	30E604
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Brass	30E707
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Brass	30E708
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Brass	30E709
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Brass	30E710
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Brass, Steel	30E677
	¼ in	¼"-18	Socket	—	300 psi	(F)NPT	Brass, Steel	30E678
	¼ in	¼"-18	Socket	—	175 psi	(M)NPT	Steel	30E525
	¼ in	¼"-18	Socket	—	175 psi	(F)NPT	Steel	30E529
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	30E657
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	30E692
	¼ in	¼"-18	Plug	—	300 psi	(M)NPT	Steel	30E703
	¼ in	¼"-18	Socket	—	300 psi	(M)NPT	Steel	30E711
	¼ in	¼"-18	Plug	—	300 psi	(F)NPT	Steel	30E696
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	304 SS	30E546
	⅜ in	⅜"-18	Plug	—	300 psi	(M)NPT	304 SS	30E549
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Alum	30E609
	⅜ in	⅜"-18	Plug	—	300 psi	(F)NPT	Steel	30E667
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	30E686
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	30E693
	⅜ in	⅜"-18	Socket	—	300 psi	(M)NPT	Steel	30E712
	⅜ in	⅜"-18	Socket	—	300 psi	(F)NPT	Steel	30E713
	½ in	½"-14	Plug	—	300 psi	(F)NPT	304 SS	30E547
	½ in	½"-14	Plug	—	300 psi	(M)NPT	304 SS	30E550
	½ in	½"-14	Socket	—	300 psi	(F)NPT	Steel	30E714
	½ in	½"-14	Socket	—	300 psi	(M)NPT	Steel	30E715
Universal Interchange								
Hose Barb								
⅜ in	⅜ in	—	Socket	—	250 psi	Hose Barb	Steel	30E729
¼ in	¼ in	—	Socket	—	250 psi	Hose Barb	Steel	30E727
	⅜ in	—	Socket	—	250 psi	Hose Barb	Steel	30E728
NPT								
⅜ in	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Steel	30E721
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Steel	30E725
	⅜ in	⅜"-18	Socket	—	400 psi	(F)NPT	304 SS	30E539
	⅜ in	⅜"-18	Socket	—	400 psi	(M)NPT	304 SS	30E543
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	30E726
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	30E722
	½ in	½"-14	Socket	—	400 psi	(F)NPT	304 SS	30E540
	½ in	½"-14	Socket	—	400 psi	(M)NPT	304 SS	30E544
¼ in	¼ in	¼"-18	Socket	—	400 psi	(F)NPT	304 SS	30E537
	¼ in	¼"-18	Socket	—	400 psi	(M)NPT	304 SS	30E541
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Brass	30E730
	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Brass	30E731
	¼ in	¼"-18	Socket	—	250 psi	(M)NPT	Steel	30E719
	¼ in	¼"-18	Socket	—	250 psi	(F)NPT	Steel	30E724
	⅜ in	⅜"-18	Socket	—	400 psi	(F)NPT	304 SS	30E538
	⅜ in	⅜"-18	Socket	—	400 psi	(M)NPT	304 SS	30E542
	⅜ in	⅜"-18	Socket	—	250 psi	(M)NPT	Steel	30E720
	⅜ in	⅜"-18	Socket	—	250 psi	(F)NPT	Steel	30E723

Pipe Size	Body Size	Material	Barb Size	Includes	Item No.
Coupler and Plug Kits					
Automotive Interchange					
¼"	¼"	304 Stainless Steel	¼"	(1) Quick Coupler, (2) Plugs	30E536
Hi Flow Interchange					
¼"	¼"	304 Stainless Steel	¼"	(1) Quick Coupler, (2) Plugs	30E591

Pipe Size	Hose Connec.	Body Size	Max. Pressure	Temp. Range	Item No.
Swivel Connector					
¼ in	(F)NPT	¼ in	150 psi	-40° to 150°F	30E592
	(M)NPT	¼ in	150 psi	-20° to 150°F	30E593

Pneumatic Coupling Plugs and Sockets

ARO—ARO steel quick-connect air coupling plugs are the male end of coupling sets. Also called nipples, they're inserted into the coupling bodies (female ends). Steel is hard and resilient with a wide working temperature range.

Industrial—Connect with industrial interchange nipples. Push-to-connect sleeve, makes connect easy with one hand.

Lincoln—Interchangeable with Lincoln Long Stem couplers.

Tru-Flate-Automotive—For the automotive industry. Grip-ring sleeve version has a knurled diameter, providing easy operation when gloves are worn.

Universal—Permits multiple series nipples to mate with one coupler. Universal Interchange fits Automotive, ARO and Industrial Interchange plugs.

30N174

30N165

30N386

30N362

30N363

30N280

30N303

30N302

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
ARO 210 Interchange								
Hose Barb								
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N173**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N174**
	¼ in	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N165**
	⅜ in	—	Socket	—	Sleeve Type	Push On	Brass	**30N166**
NPT								
¼ in	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N171**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N172**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	**30N169**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N168**
	½ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N167**
Automotive Tru-Flate Interchange								
Hose Barb								
½ in	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N387**
⅜ in	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N385**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N386**
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N388**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N389**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N390**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N391**
½ in	—	—	Socket	—	Sleeve Type	Hose Barb	Steel	**30N354**
	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N352**
	⅜ in	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N353**
⅜ in	—	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N344**
¼ in	—	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	**30N362**
	—	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N363**
	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	**30N364**
	—	—	Socket	⅜"	Sleeve Type	Push On	Brass	**30N365**
NPT								
¾ in	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N299**
	¾ in	¾"-14	Plug	—	—	(F)NPT	Steel	**30N298**
½ in	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N282**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N377**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N380**
	½ in	½"-14	Plug	—	—	(M)NPT	Brass	**30N274**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N384**
	¾ in	¾"-14	Plug	—	—	(M)NPT	Steel	**30N288**
	¾ in	¾"-14	Plug	—	—	(F)NPT	Steel	**30N297**
⅜ in	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N281**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N376**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N379**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N383**
¼ in	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Steel	**30N280**
	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N375**
	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Steel	**30N378**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Brass	**30N392**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N393**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N269**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N292**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	**30N381**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N293**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N382**
½ in	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N360**
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Brass	**30N374**
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	**30N359**
	½ in	¾"-14	Socket	—	Sleeve Type	(F)NPT	Steel	**30N361**
	¾ in	¾"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N358**
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N346**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N349**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N342**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	**30N348**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N347**
¼ in	⅛ in	⅛"-27	Socket	—	Sleeve Type	(F)NPT	Brass	**30N370**
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	**30N369**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	**30N368**
Industrial Interchange								
Hose Barb								
¾ in	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N311**
	¾ in	—	Plug	¾"	—	Hose Barb	Steel	**30N310**
	1 in	—	Plug	1"	—	Hose Barb	Steel	**30N312**
½ in	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N303**
	⅜ in	—	Plug	⅜"	—	Push On	Steel	**30N304**
	½ in	—	Plug	—	—	Push On	Steel	**30N309**
	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N307**
	¾ in	—	Plug	¾"	—	Hose Barb	Steel	**30N308**
⅜ in	¼ in	—	Plug	¼"	—	Push On	Steel	**30N302**
	⅜ in	—	Plug	—	—	Push On	Steel	**30N306**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N305**
	½ in	—	Plug	½"	—	Hose Barb	Steel	**30N313**
	½ in	—	Plug	½"	—	Push On	Steel	**30N314**
¼ in	¼ in	—	Plug	¼"	—	Hose Barb	Steel	**30N315**
	¼ in	—	Plug	¼"	—	Push On	Steel	**30N317**
	5⁄16 in	—	Plug	5⁄16"	—	Hose Barb	Steel	**30N316**
	⅜ in	—	Plug	—	—	Push On	Steel	**30N319**
	⅜ in	—	Plug	⅜"	—	Hose Barb	Steel	**30N318**

30N193

30N273

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
¾ in	¾ in	—	Socket	¾"	Push to Connect	Hose Barb	Brass	**30N217**
	1 in	—	Socket	1"	Push to Connect	Hose Barb	Brass	**30N218**
½ in	—	—	Socket	¾"	Sleeve Type	Hose Barb	Steel	**30N356**
	½ in	—	Socket	½"	Push to Connect	Hose Barb	Brass	**30N209**
	½ in	—	Socket	½"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N335**
	½ in	—	Socket	½"	Safety Vent and Push To Connect	Push On	Steel	**30N337**
	½ in	—	Socket	½"	Sleeve Type	Push On	Steel	**30N355**
	¾ in	—	Socket	¾"	Push to Connect	Hose Barb	Brass	**30N210**
⅜ in	—	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N343**
	—	—	Socket	½"	Sleeve Type	Hose Barb	Steel	**30N345**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N202**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N203**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N242**
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Steel	**30N248**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N329**
	⅜ in	—	Socket	⅜"	Sleeve Type	Push On	Steel	**30N249**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Push On	Steel	**30N331**
	½ in	—	Socket	—	Sleeve Type	Hose Barb	Steel	**30N250**
	½ in	—	Socket	½"	Push to Connect	Hose Barb	Brass	**30N244**
	½ in	—	Socket	½"	Push to Connect	Push On	Brass	**30N246**
¼ in	¼ in	—	Socket	¼"	Push to Connect	Hose Barb	Brass	**30N192**
	¼ in	—	Socket	¼"	Push to Connect	Hose Barb	Brass	**30N231**
	¼ in	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	**30N256**
	¼ in	—	Socket	¼"	Push to Connect	Push On	Brass	**30N193**
	¼ in	—	Socket	¼"	Push to Connect	Push On	Brass	**30N233**
	¼ in	—	Socket	¼"	Sleeve Type	Push On	Brass	**30N257**
	¼ in	—	Socket	¼"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N321**
	¼ in	—	Socket	¼"	Safety Vent and Push To Connect	Push On	Steel	**30N323**
	5⁄16 in	—	Socket	5⁄16"	Sleeve Type	Hose Barb	Brass	**30N258**
	⅜ in	—	Socket	—	Sleeve Type	Push On	Brass	**30N260**
	⅜ in	—	Socket	⅜"	Push to Connect	Hose Barb	Brass	**30N235**
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	**30N259**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N194**
	⅜ in	—	Socket	⅜"	Push to Connect	Push On	Brass	**30N237**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Hose Barb	Steel	**30N325**
	⅜ in	—	Socket	⅜"	Safety Vent and Push To Connect	Push On	Steel	**30N327**
NPT								
¾ in	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N290**
	¾ in	¾"-14	Plug	—	—	(M)NPT	Steel	**30N289**
	1 in	1"-11-1/2	Plug	—	—	(M)NPT	Steel	**30N291**
	1 in	1"-11-1/2	Plug	—	—	(F)NPT	Steel	**30N301**
½ in	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N279**
	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N287**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N296**
⅜ in	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N276**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N278**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N271**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N285**
	⅜ in	⅜"-18	Plug	—	—	(F)NPT	Steel	**30N294**
	½ in	½"-14	Plug	—	—	(M)NPT	Steel	**30N286**
	½ in	½"-14	Plug	—	—	(F)NPT	Steel	**30N295**
¼ in	⅛ in	⅛"-27	Plug	—	—	(M)NPT	Steel	**30N277**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Brass	**30N273**
	¼ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N275**
	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	**30N283**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N270**
	⅜ in	⅜"-18	Plug	—	—	(M)NPT	Steel	**30N284**
⅛ in	⅛ in	⅛"-27	Plug	—	—	(F)NPT	Brass	**30N226**
	⅛ in	⅛"-27	Plug	—	Push to Connect	(M)NPT	Brass	**30N227**
	⅛ in	¼"-18	Plug	—	—	(F)NPT	Brass	**30N228**
¾ in	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N221**
	¾ in	¾"-14	Socket	—	Push to Connect	(M)NPT	Brass	**30N216**
	¾ in	¾"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N220**
	1 in	1"-11-1/2	Socket	—	Push to Connect	(M)NPT	Brass	**30N219**
	1 in	1"-11-1/2	Socket	—	Push to Connect	(F)NPT	Brass	**30N222**
½ in	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	**30N211**
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	**30N214**
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	**30N357**
	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N213**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Brass	**30N373**
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	**30N334**
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	**30N336**
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	**30N351**
	¾ in	¾"-14	Socket	—	Push to Connect	(M)NPT	Brass	**30N212**
	¾ in	¾"-14	Socket	—	Push to Connect	(F)NPT	Brass	**30N215**

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Pneumatic Coupling Plugs and Sockets

30N207

30N267

30N332

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
⅜ in	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N204
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N207
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N238
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N239
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Steel	30N251
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Steel	30N254
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N201
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N206
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N240
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N241
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N267
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N268
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N372
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Steel	30N247
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Steel	30N253
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N328
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N330
	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N205
	½ in	½"-14	Socket	—	Push to Connect	(F)NPT	Brass	30N243
	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N245
	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Steel	30N252
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	30N255
	½ in	½"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N332
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Steel	30N350

30N223

30N340

30N339

30N394

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
¼ in	⅛ in	⅛"-27	Socket	—	Sleeve Type	(M)NPT	Brass	30N262
	⅛ in	⅛"-27	Socket	—	Sleeve Type	(F)NPT	Brass	30N265
	⅛ in	⅛"-27	Socket	—	Sleeve Type	(M)NPT	Brass	30N367
	¼ in	⅛"-27	Socket	—	Push to Connect	(F)NPT	Brass	30N198
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N195
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N197
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N230
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N232
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N261
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N264
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N366
	¼ in	¼"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N320
	¼ in	¼"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N322
	¼ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N196
	¼ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N199
	¼ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(M)NPT	Steel	30N326
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N234
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N236
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N263
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N266
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N371
	⅜ in	⅜"-18	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N324
	¾ in	¾"-14	Socket	—	Safety Vent and Push To Connect	(F)NPT	Steel	30N333
⅛ in	⅛ in	⅛"-27	Socket	—	Push to Connect	(M)NPT	Brass	30N223
	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N224
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N225
Lincoln Long Interchange								
¼ in	¼ in	¼"-18	Plug	—	—	(M)NPT	Steel	30N340
	¼ in	¼"-18	Plug	—	—	(F)NPT	Steel	30N341
Lincoln Longstem								
¼ in	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	30N338
	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	30N339
Tru-Flate/Automotive								
½ in	½ in	½"-14	Socket	—	Push to Connect	(M)NPT	Brass	30N208
Universal Pneumatic Coupler								
¼ in	¼ in	¼"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N394
	¼ in	¼"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N395
	⅜ in	⅜"-18	Socket	—	Push to Connect	(F)NPT	Brass	30N396
	⅜ in	⅜"-18	Socket	—	Push to Connect	(M)NPT	Brass	30N397

Pneumatic Couplers and Plugs

Authorized Distributor Hansen™

31C962

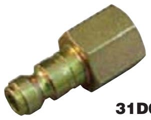
31C955

31D007

31C960

31C977

31C998


31D008

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
1000/400/500 Series, Industrial Interchange								
Hose Barb								
½ in	½ in	—	Plug	½"	Sleeve Type	Hose Barb	Steel	31C996
⅜ in	½ in	—	Plug	½"	Sleeve Type	Hose Barb	Steel	31C995
¼ in	¼ in	—	Plug	¼"	Sleeve Type	Push-On Hose Barb	Steel	31C997
½ in	½ in	—	Socket	½"	Sleeve Type	Hose Barb	Brass	31C974
⅜ in	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	31C959
¼ in	¼ in	—	Socket	¼"	Sleeve Type	Hose Barb	Brass	31C957
	¼ in	—	Socket	¼"	Sleeve Type	Push-On Hose Barb	Brass	31C975
	⅜ in	—	Socket	⅜"	Sleeve Type	Hose Barb	Brass	31C958
NPT								
½ in	½ in	½"-14	Plug	—	Sleeve Type	(F)NPT	Steel	31C988
	¾ in	¾"-14	Plug	—	Sleeve Type	(F)NPT	Steel	31C989
⅜ in	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C986
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C987
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31C994
¼ in	⅛ in	⅛"-27	Plug	—	Sleeve Type	(M)NPT	Carbon Steel	31C963
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	303 Stainless Steel	31C983
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	303 Stainless Steel	31C990
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Brass	31C984
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Brass	31C991
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31C985
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31C992
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Carbon Steel	31C962
	⅜ in	⅜"-18	Plug	—	Sleeve Type	(M)NPT	Carbon Steel	31C993
½ in	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Brass	31C956
	½ in	½"-14	Socket	—	Sleeve Type	(F)NPT	Brass	31C967
	¾ in	¾"-14	Socket	—	Sleeve Type	(F)NPT	Brass	31C968
	¾ in	¾"-14	Socket	—	Sleeve Type	(M)NPT	Brass	31C973
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C964
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C970
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C966
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C972
¼ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C955
	¼ in	¼"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C969
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(F)NPT	Brass	31C965
	⅜ in	⅜"-18	Socket	—	Sleeve Type	(M)NPT	Brass	31C971
210/310 SERIES ARO Interchange								
¼ in	⅛ in	⅛"-27	Plug	—	Sleeve Type	(M)NPT	Steel	31D005
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31D006
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D007
3000/4000/5000/6000 Series Industrial Interchange								
½ in	½ in	½"-14	Socket	—	Push To Connect	(M)NPT	Brass	31C961
	½ in	½"-14	Socket	—	Push To Connect	(F)NPT	Brass	31C979
⅜ in	⅜ in	⅜"-18	Socket	—	Push To Connect	(M)NPT	Brass	31C976
	⅜ in	⅜"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C978
¼ in	¼ in	¼"-18	Socket	—	Push-to-Connect	(M)NPT	Brass	31C960
	¼ in	¼"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C977

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Barb Size	Features	Hose Connec.	Material	Item No.
Auto-Flo 23 Universal Series Industrial, ARO210, Truflate Interchange								
Hose Barb								
⅜ in	⅜ in	—	Socket	⅜"	Push To Connect	Hose Barb	Brass	31D004
¼ in	¼ in	¼"-18	Socket	¼"	Push To Connect	Hose Barb	Brass	31D003
NPT								
⅜ in	⅜ in	⅜"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C999
	⅜ in	⅜"-18	Socket	—	Push To Connect	(M)NPT	Brass	31D002
¼ in	¼ in	¼"-18	Socket	—	Push To Connect	(F)NPT	Brass	31C998
	¼ in	¼"-18	Socket	—	Push To Connect	(M)NPT	Brass	31D001
Auto-Flo 23 Universal Series Truflate Interchange								
⅜ in	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Steel	31D012
	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D009
	¼ in	⅜"-18	Plug	—	Sleeve Type	(F)NPT	Steel	31D010
¼ in	¼ in	¼"-18	Plug	—	Sleeve Type	(F)NPT	Carbon steel	31D008
	¼ in	¼"-18	Plug	—	Sleeve Type	(M)NPT	Carbon steel	31D011
Full Bore Series Industrial Interchange								
Hose Barb								
⅜ in	¼ in	¼"-18	Socket	—	Sleeve Type	(F)NPT	Carbon steel	31C981
NPT								
½ in	½ in	½"-14	Socket	—	Sleeve Type	(M)NPT	Carbon steel	31C980
	½ in	½"-14	Socket	½"	Sleeve Type	Hose Barb	Carbon steel	31C982

Pneumatic Coupling Plugs and Sockets

Universal Interchange fits Automotive and Industrial Interchange plugs.

5CGY8

5CGX8

5CGU0

5CGV6

5CGR3

5CGU1

5CGW7

13C677

20JY76

13F695

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Max. Working Pressure @ 70°F	Hose Connec.	Material	Brand	Item No.
Automotive Interchange								
Hose Barb								
⅜ in	⅜ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGZ0**
¼ in	¼ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGY8**
	⅜ in	—	Plug	500 psi	Hose Barb	Steel	Dixon	**5CGY9**
NPT								
⅜ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY1**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY5**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY3**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY7**
¼ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY0**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY4**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGY2**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGY6**
⅜ in	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGX7**
	⅜ in	⅜"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGX9**
¼ in	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGX6**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGX8**
Industrial								
Hose Barb								
½ in	¼ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT9**
⅜ in	⅜ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT8**
¼ in	¼ in	—	Socket	500 psi	Push On Hose Barb	Brass	Dixon	**5CGU0**
	¼ in	—	Socket	500 psi	Hose Barb	Steel	Dixon	**5CGT7**
NPT								
⅜ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGV9**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	303 Stainless Steel	Dixon	**5CGW2**
¼ in	¼ in	¼"-18	Plug	500 psi	(F)NPT	303 Stainless Steel	Dixon	**5CGV7**
	¼ in	¼"-18	Plug	300 psi	(F)NPT	Brass	Dixon	**5CGV8**
	¼ in	¼"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGV6**
	⅜ in	⅜"-18	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW0**
½ in	½ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR8**
	½ in	½"-14	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU5**
	½ in	½"-14	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGV0**
	½ in	¾ in	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT6**
	¾ in	½"	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT5**

Coupling Size	Hose Fitting Size	Thread Size	Coupling Component	Max. Working Pressure @ 70°F	Hose Connec.	Material	Brand	Item No.
⅜ in	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU2**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU7**
	¼ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR5**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT2**
	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU4**
	⅜ in	⅜"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU9**
	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR7**
	½ in	⅜"	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT4**
¼ in	¼ in	¼"-18	Socket	500 psi	(F)NPT	Brass	Dixon	**5CGR3**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Brass	Dixon	**5CGT0**
	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU1**
	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU6**
	¼ in	¼"-18	Socket	500 psi	(F)NPT	Steel	Dixon	**5CGR4**
	¼ in	¼"-18	Socket	500 psi	(M)NPT	Steel	Dixon	**5CGT1**
	⅜ in	⅜"-18	Socket	500 psi	(F)NPT	Brass	Dixon	**5CGR6**
	⅜ in	⅜"-18	Socket	500 psi	(M)NPT	Brass	Dixon	**5CGT3**
	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Brass	Dixon	**5CGU3**
	⅜ in	⅜"-18	Socket	300 psi	(M)NPT	Brass	Dixon	**5CGU8**
Industrial Interchange								
½ in	½ in	½"-14	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGX5**
	½ in	½"-14	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW3**
	¾ in	¾"-14	Plug	500 psi	(F)NPT	Steel	Dixon	**5CGW4**
⅜ in	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGX4**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGX3**
¼ in	⅛ in	⅛"-27	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGW7**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	303 Stainless Steel	Dixon	**5CGW9**
	¼ in	¼"-18	Plug	300 psi	(M)NPT	Brass	Dixon	**5CGX0**
	¼ in	¼"-18	Plug	230 psi	(M)NPT	Steel	Dynabrade	**13C677**
	¼ in	¼"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGW8**
	⅜ in	⅜"-18	Plug	500 psi	(M)NPT	Steel	Dixon	**5CGX2**
½ in	½ in	½"-14	Socket	300 psi	(F)NPT	Steel	Foster	**32V282**
⅜ in	⅜ in	⅜"-18	Socket	300 psi	(F)NPT	Steel	Foster	**32V277**
Push/Pull								
NPTF								
¼ in	¼ in	¼"-18	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY75**
	⅜ in	⅜"-18	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY76**
	½ in	½"-14	Socket	250 psi	(F)NPT	Brass	Alpha Fittings	**20JY77**
NPTM								
¼ in	¼ in	¼"-18	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY72**
	⅜ in	⅜"-18	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY73**
	½ in	½"-14	Socket	250 psi	(M)NPT	Brass	Alpha Fittings	**20JY74**
Universal								
NPT								
¼ in	¼ in	¼"-18	Socket	300 psi	(M)NPT	Brass	Amflo	**35YK84**
	¼ in	¼"-18	Socket	300 psi	(F)NPT	Brass	Amflo	**35YK85**
	¼ in	¼"-18	Socket	175 psi	(F)NPT	Composite	Dynabrade	**13F694**
	¼ in	¼"-18	Socket	175 psi	(M)NPT	Composite	Dynabrade	**13F695**

5CGH3

5CGH7

The Right Connection™

Bowes-Style Couplers

Coupling Size	Max. Pressure	Material	Barb Size	HOSE BARB Item No.	Coupler Plug: HOSE BARB LOCKING HEAD Item No.	Coupler Plug: COUPLER PLUG LOCKING HEAD Item No.	Coupler Body: HOSE BARB PUSH TO CONNECT Item No.
½ in	500 psi	Steel	½ in	**5CGH3**	**5CGK7**	—	**5CGH7**
½ in	300 psi	Brass	½ in	**5CGH5**	**5CGK9**	—	**5CGH9**
½ in	500 psi	Steel	¾ in	**5CGH4**	**5CGK8**	—	**5CGH8**
½ in	300 psi	Brass	¾ in	**5CGH6**	—	**5CGL0**	**5CGJ0**

Coupling Size	Max. Pressure	Material	Pipe Size	Coupler Body: (M)NPT PUSH TO CONNECT Item No.	Coupler Body: (F)NPT PUSH TO CONNECT Item No.	Coupler Plug: (M)NPT Item No.	Coupler Plug: (F)NPT Item No.	Coupler Plug: (M)NPT LOCKING HEAD Item No.
½ in	300 psi	Brass	½"	**5CGJ7**	**5CGK5**	**5CGJ3**	**5CGK1**	**5CGL3**
½ in	300 psi	Brass	¾"	**5CGJ8**	**5CGK6**	**5CGJ4**	**5CGK2**	**5CGL4**
½ in	500 psi	Steel	½"	**5CGJ5**	**5CGK3**	**5CGJ1**	**5CGJ9**	**5CGL1**
½ in	500 psi	Steel	¾"	**5CGJ6**	**5CGK4**	**5CGJ2**	**5CGK0**	**5CGL2**

COXREELS® REELCRAFT SPEEDAIRE

Washdown & Pressure Washer Spring-Return Hose Reels

Reels hold water hoses for heavy-duty cleaning applications. Spring-return hose reels help retract hose onto the reel without an external power source. The spring-return has a locking ratchet and pawl that locks into place once users have pulled the hose out to the desired length. The ratchet is released by pulling the hose out, and then hose can be rewound onto the reel. Stainless steel reels withstand rust, corrosion, contaminants, and saltwater. **Pressure washer reels** hold hoses that use high pressure to remove dirt, grease, and grime in food processing plants, pulp and paper plants, and equipment. **Washdown reels** handle hoses for low- to high-water volume output with a range of psi requirements for low- or high-pressure applications such as cleaning service bays, food processing plants, and fleet maintenance. 3MJJ5 includes hose.

16X545

2CUD4

6Z786

33N085

2CAG9

3MJJ5

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Brand	Item No.
Corrosion-Resistant Stainless Steel Washdown Spring-Return Hose Reels						
Hose Not Included						
25 ft (½ in I.D.)	—	300 psi	7 in L x 17 ⅛ in W x 18 ⅝ in H	Stainless Steel	Coxreels	**16X545**
25 ft (¾ in I.D.)	—	300 psi	19 ½ in L x 9 ⅜ in W x 25 ½ in H	Stainless Steel	Coxreels	**16X548**
50 ft (½ in I.D.)	—	500 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Reelcraft	**6Z785**
50 ft (¾ in I.D.)	—	300 psi	23 in L x 9 ¾ in W x 25 ½ in H	Stainless Steel	Coxreels	**271F16**
70 ft (⅜ in I.D.)	—	300 psi	19 ⅜ in L x 8 ⅛ in W x 20 ½ in H	Brass	Reelcraft	**38EE94**
100 ft (½ in I.D.)	—	500 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Stainless Steel	Reelcraft	**5KPC2**
Hose Included						
50 ft (½ in I.D.)	½ in MNPT	300 psi	20 ⅝ in L x 8 7⁄16 in W x 22 ½ in H	Stainless Steel	Speedaire	**2CUD4**
Corrosion-Resistant Stainless Steel Dual-Pedestal Washdown Spring-Return Hose Reels						
Hose Not Included						
50 ft (¾ in I.D.)	—	500 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Stainless Steel	Reelcraft	**38L549**
50 ft (1 in I.D.)	—	500 psi	24 in L x 15 ¾ in W x 25 ⅜ in H	Stainless Steel	Reelcraft	**5KPC3**
75 ft (¾ in I.D.)	—	500 psi	24 in L x 13 in W x 25 ⅜ in H	Stainless Steel	Reelcraft	**6Z786**
Corrosion-Resistant Stainless Steel Pressure-Washer Spring-Return Hose Reel						
Hose Not Included						
50 ft (⅜ in I.D.)	—	3,000 psi	19 ½ in L x 8 ¼ in W x 21 ¼ in H	Stainless Steel	Coxreels	**16X549**
Enclosed Corrosion-Resistant Stainless Steel Air or Water Spring-Return Hose Reels						
Hose Not Included						
50 ft (⅜ in I.D.)	—	300 psi	21 ⅞ in L x 8 ½ in W x 21 ¾ in H	Stainless Steel	Coxreels	**29PY05**
50 ft (½ in I.D.)	—	300 psi	21 ⅞ in L x 8 ½ in W x 21 ¾ in H	Stainless Steel	Coxreels	**33N085**
Pressure-Washer Spring-Return Hose Reels						
Hose Not Included						
50 ft (⅜ in I.D.)	—	5,000 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Reelcraft	**2CAG9**
100 ft (⅜ in I.D.)	—	5,000 psi	19 11⁄16 in L x 12 7⁄16 in W x 21 ¼ in H	Steel	Speedaire	**45UZ54**
100 ft (⅜ in I.D.)	—	5,000 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Reelcraft	**4NB25**
Hose Included						
50 ft (⅜ in I.D.)	¼ in MNPT	4,800 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Reelcraft	**38EE39**
75 ft (⅜ in I.D.)	¼ in MNPT	4,800 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Reelcraft	**48ZX02**
Washdown Spring-Return Hose Reel						
50 ft (½ in I.D.)	½ in MNPT	232 psi	19 5⁄16 in L x 9 3⁄16 in W x 22 in H	Brass	Reelcraft	**3MJJ5**

REELCRAFT

Pre-Rinse & Potable Water Spring-Return Hose Reels

- Spring-return rectracts hose without external power source
- Reels mount to floor, walls, or ceiling
- Adjustable hose guide included
- Includes hose

Pre-rinse reels hold hoses that carry water to highly corrosive environments and are powder-coated. **Enclosed pre-rinse reel** shields out any contaminants to protect and extend the life of the reel, the hose, and the components inside. Both types are rated for hot water washdown and food prep in restaurants and commercial kitchens. **Potable water reel** connects hoses to drinking water systems. This single-pedestal reel has a full-flow stainless steel fluid path with a PVC swivel, drain, and standard female garden hose fitting. It holds low-pressure water hoses to bring potable water to water purification plants, water storage tanks, and food and beverage plants.

4NB27

3MJJ1

4NB26

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Item No.
Pre-Rinse Spring-Return Hose Reels					
25 ft (⅜ in I.D.)	Spray Valve x ⅜ in MNPT	125 psi	12 ⅝ in L x 7 in W x 12 ⅞ in H	Brass	**38L556**
35 ft (⅜ in I.D.)	⅜ in MNPT x ⅜ in FNPT	125 psi	14 ¼ in L x 6 ⅛ in W x 14 ⅜ in H	Brass	**4NB27**
Enclosed Pre-Rinse Spring Return Hose Reel					
35 ft (⅜ in I.D.)	⅜ in MNPT	125 psi	16 ¼ in L x 7 in W x 15 in H	Brass	**3MJJ1**
Potable Water Spring Return-Hose Reel					
35 ft (½ in I.D.)	¾ in FGHT x ¾ in FNH	150 psi	14 ¼ in L x 6 ⅛ in W x 14 ⅜ in H	PVC	**4NB26**

5LAL3

38L518

56MW37

3RWR8

Air-Only Spring-Return Hose Reels

- Retracts hose onto the reel without an external power source

Reels hold hoses that supply air for tools, sprayers, and services from compressed air, and breathable air for respiratory applications with low- or high-pressure breathing systems. Ratchet and pawl locks desired hose length into place.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Air-Only Spring-Return Hose Reel							
Hose Included							
50 ft (½ in I.D.)	½ in MNPT	300 psi	19 in L x 7 ¾ in W x 19 ¼ in H	Steel	Black, Green	Legacy	**5LAL3**
Breathing Air Spring-Return Hose Reel							
Hose Not Included							
50 ft (½ in I.D.)	—	500 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Blue	Reelcraft	**38L518**
Compact Air-Only Spring-Return Hose Reel							
Hose Not Included							
25 ft (¼ in I.D.)	—	300 psi	12 ¼ in L x 5 ⅞ in W x 13 ¼ in H	Brass	Red	Reelcraft	**56MW37**
Enclosed Air-Only Spring-Return Hose Reels							
Hose Included							
25 ft (¼ in I.D.)	¼ in MNPT	300 psi	16 ¼ in L x 7 in W x 15 in H	Brass	Red	Reelcraft	**59LK52**
30 ft (⅜ in I.D.)	⅜ in Hose Barb x ¼ in MNPT	180 psi	13 ½ in L x 6 ⅜ in W x 12 ¼ in H	Anodized Aluminum	Black	Legacy	**3RWR8**
50 ft (⅜ in I.D.)	⅜ in Hose Barb x ¼ in MNPT	300 psi	19 ¼ in L x 10 ½ in W x 17 ¼ in H	Anodized Aluminum	Black	Speedaire	**2VDF1**
50 ft (⅜ in I.D.)	⅜ in Hose Barb x ¼ in MNPT	350 psi	19 ¼ in L x 10 ½ in W x 17 ¼ in H	Anodized Aluminum	Black	Legacy	**260M70**
50 ft (½ in I.D.)	½ in Hose Barb x ⅜ in MNPT	300 psi	19 ¼ in L x 10 ½ in W x 17 ¼ in H	Anodized Aluminum	Black	Speedaire	**2VDF4**
75 ft (⅜ in I.D.)	⅜ in Hose Barb x ¼ in MNPT	300 psi	19 ¼ in L x 10 ½ in W x 17 ¼ in H	Anodized Aluminum	Black	Speedaire	**2VDF2**

263D55

60GW06

Lightweight Air or Water Spring-Return Hose Reels

- Mount to a floor, wall, or ceiling

These low-pressure reels are designed for less demanding industrial or commercial use. The spool is made from engineered plastic for long service life. Reels include a guide arm that adjusts to seven positions. They are commonly used with pneumatic tools, in lubrication, and with general industrial air/water services.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Lightweight Air or Water Spring-Return Hose Reels							
Hose Included							
35 ft (¼ in I.D.)	¼ in MNPT	300 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Brass	Black, Red	Reelcraft	**263D55**
50 ft (¼ in I.D.)	¼ in MNPT	300 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Brass	Black, Red	Reelcraft	**263D56**
50 ft (⅜ in I.D.)	¼ in MNPT	300 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Brass	Black, Red	Reelcraft	**263D58**
50 ft (½ in I.D.)	½ in MNPT	300 psi	16 ½ in L x 7 ¾ in W x 17 ⅞ in H	Nickel Plated Steel	Black, Red	Reelcraft	**263D65**
Hose Not Included							
35 ft (¼ in I.D.)	—	300 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Brass	Black, Red	Reelcraft	**4LMH2**
35 ft (½ in I.D.)	—	300 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Nickel Plated Steel	Black, Red	Reelcraft	**4LMG8**
High-Visibility Lightweight Air or Water Spring-Return Hose Reel							
Hose Included							
20 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	10 ½ in L x 5 ¼ in W x 10 ⅝ in H	Brass	Blue	Coxreels	**60GW06**

437J22

60GW09

Standard Air or Water Spring-Return Hose Reels

These single-pedestal reels include standard low-pressure hose for air or water service only. Reels mount to the floor, wall, or ceiling, and include an adjustable guide arm. They are used with air or water hoses for pneumatic tools, in service centers, and at construction sites.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Standard Air or Water Spring-Return Hose Reels							
Hose Included							
25 ft (¼ in I.D.)	¼ in MNPT	300 psi	12 39/64 in L x 6 1/64 in W x 13 29/32 in H	Brass	Green	Speedaire	**437J21**
25 ft (⅜ in I.D.)	¼ in MNPT	300 psi	12 19/32 in L x 6 1/32 in W x 13 29/32 in H	Brass	Green	Speedaire	**49AE03**
25 ft (½ in I.D.)	½ in MNPT	300 psi	13 25/32 in L x 6 13/16 in W x 15 9/32 in H	Brass	Green	Speedaire	**437J22**
25 ft (¾ in I.D.)	¾ in MNPT	250 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**4NA87**
25 ft (¾ in I.D.)	¾ in MNPT	300 psi	20 15/32 in L x 9 ¼ in W x 21 3/16 in H	Brass	Green	Speedaire	**45UZ40**
33 ft (⅜ in I.D.)	⅜ in MNPT x ¼ in MNPT	300 psi	17 ¾ in L x 7 in W x 17 in H	Brass	Green	Speedaire	**2CUA5**
35 ft (¼ in I.D.)	¼ in MNPT	300 psi	12 19/32 in L x 6 39/64 in W x 13 57/64 in H	Brass	Green	Speedaire	**45UZ36**
35 ft (⅜ in I.D.)	¼ in MNPT	300 psi	13 25/32 in L x 6 19/64 in W x 15 9/32 in H	Brass	Green	Speedaire	**45UZ34**
50 ft (¼ in I.D.)	¼ in MNPT	300 psi	17 ¾ in L x 7 in W x 17 in H	Brass	Green	Speedaire	**2CUA3**
50 ft (¼ in I.D.)	¼ in MNPT	300 psi	12 39/64 in L x 6 1/64 in W x 13 29/32 in H	Brass	Green	Speedaire	**437J20**
50 ft (¼ in I.D.)	¼ in MNPT	300 psi	12 19/32 in L x 6 39/64 in W x 13 57/64 in H	Brass	Green	Speedaire	**45UZ37**
50 ft (⅜ in I.D.)	⅜ in MNPT x ¼ in MNPT	300 psi	17 ¾ in L x 7 in W x 17 in H	Brass	Green	Speedaire	**2CUA7**
50 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	13 25/32 in L x 7 1/32 in W x 15 9/32 in H	Brass	Green	Speedaire	**45UZ33**
50 ft (⅜ in I.D.)	¼ in MNPT	300 psi	13 25/32 in L x 6 13/16 in W x 15 9/32 in H	Brass	Green	Speedaire	**49AE04**
50 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	20 in L x 9 in W x 22 in H	Brass	Green	Speedaire	**4UKX5**
50 ft (⅜ in I.D.)	⅜ in MNPT x ¼ in MNPT	300 psi	20 ½ in L x 9 ¼ in W x 22 ¼ in H	Brass	Green	Speedaire	**6WA71**
50 ft (⅜ in I.D.)	¼ in MNPT	300 psi	20 in L x 9 in W x 22 in H	Brass	Red	Lincoln	**3MJK4**
50 ft (⅜ in I.D.)	¼ in MNPT	300 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**260N21**
50 ft (⅜ in I.D.)	¼ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**2Z864**
35 ft (½ in I.D.)	⅜ in MNPT	300 psi	13 25/32 in L x 6 13/16 in W x 15 9/32 in H	Brass	Green	Speedaire	**49AE05**
50 ft (½ in I.D.)	½ in MNPT	300 psi	19 5/16 in L x 7 in W x 22 ½ in H	Brass	Green	Speedaire	**2CUA9**
50 ft (½ in I.D.)	½ in MNPT	300 psi	17 ½ in L x 9 ¼ in W x 20 13/64 in H	Brass	Green	Speedaire	**440G24**
50 ft (½ in I.D.)	⅜ in MNPT	300 psi	15 ¾ in L x 7 ⅜ in W x 16 27/32 in H	Brass	Green	Speedaire	**49AE06**
50 ft (½ in I.D.)	⅜ in MNPT x ½ in MNPT	300 psi	20 ½ in L x 9 ¼ in W x 22 ¼ in H	Brass	Green	Speedaire	**6WA72**
50 ft (½ in I.D.)	½ in MNPT	300 psi	20 in L x 9 in W x 22 in H	Brass	Red	Lincoln	**3MJK6**
50 ft (½ in I.D.)	⅜ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**2Z865**
50 ft (½ in I.D.)	½ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**38L509**
70 ft (⅜ in I.D.)	¼ in MNPT	300 psi	17 ⅛ in L x 8 17/64 in W x 18 1/32 in H	Brass	Green	Speedaire	**45UZ41**
70 ft (⅜ in I.D.)	¼ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**263D66**
70 ft (⅜ in I.D.)	¼ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**48ZW93**
75 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**448F63**
75 ft (⅜ in I.D.)	½ in MNPT	300 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**448F71**
75 ft (½ in I.D.)	½ in MNPT x ¾ in MNPT	300 psi	26 3/16 in L x 12 in W x 27 in H	Brass	Green	Speedaire	**2CUB8**
75 ft (½ in I.D.)	⅜ in MNPT	300 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**48ZW96**
75 ft (¾ in I.D.)	¾ in MNPT	300 psi	26 3/16 in L x 12 in W x 27 in H	Brass	Green	Speedaire	**2CUC1**
100 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	26 3/16 in L x 12 in W x 27 in H	Brass	Green	Speedaire	**2CUB6**
100 ft (⅜ in I.D.)	½ in MNPT	300 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**48ZW95**
Hose Not Included							
35 ft (⅜ in I.D.)	—	300 psi	6 ¾ in L x 17 ⅛ in W x 18 ⅝ in H	Stainless Steel	Blue	Coxreels	**447K09**
50 ft (½ in I.D.)	—	500 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**4LMJ2**
High-Visibility Standard Air or Water Spring-Return Hose Reels							
Hose Included							
25 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	13 ¾ in L x 6 ¼ in W x 14 ½ in H	Brass	Blue	Coxreels	**60GW07**
25 ft (½ in I.D.)	½ in MNPT	300 psi	17 ⅛ in L x 7 in W x 18 ⅝ in H	Brass	Blue	Coxreels	**60GW09**
50 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	17 ⅛ in L x 6 ¾ in W x 18 ⅝ in H	Brass	Blue	Coxreels	**60GW08**
50 ft (½ in I.D.)	½ in MNPT	300 psi	17 ⅛ in L x 7 in W x 18 ⅝ in H	Brass	Blue	Coxreels	**60GW10**

SPEEDAIRE® REELCRAFT® COXREELS®

Enclosed Air or Water Spring-Return Hose Reels

2CUD6

29PY57

2CUC7

Compact and durable reels are for use in limited spaces. **Enclosed lightweight air or water reels** are designed for continuous use. Polypropylene case houses the brass swivel and fluid path, the steel main shaft, and the steel spring. Case resists most acids, alkalis, and UV rays, and protects and keeps the hose clean. Lightweight reels mount on a wall, ceiling, or the floor. Commonly used with pneumatic tools and for water service. **Enclosed controlled-retraction air or water reel** reduce retraction speed to a safe, steady pace to prevent injuries and hose whipping. 90° full-flow NPT swivel inlet is machined from solid brass with nitrile swivel seals. Powder-coated, heavy-gauge steel enclosed casing shields out any contaminants and protects and extends the life of the reel, the hose, and the components inside. Reel mounts to the floor, wall, ceiling, or on a bench, and include adjustable guide arms and adjustable hose roller guides. Used with air or water hoses in grocery stores, restaurants, and commercial kitchens. **Enclosed air or water reels have** a full-flow shaft and swivel to assure product delivery. Reels mount to the floor, wall, or on the ceiling and include an adjustable guide arm. Used with air or water hoses in food and chemical plants, automotive service centers, and with pneumatic tools.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Enclosed Lightweight Air or Water Spring-Return Hose Reels							
Hose Included							
8 ft (¼ in I.D.)	¼ in MNPT	200 psi	8 ⅝ in L x 2 ⅜ in W x 7 ⅞ in H	Brass	Green	Speedaire	**2CUD6**
50 ft (⅜ in I.D.)	⅜ in MNPT	232 psi	22 in L x 9 ⅛ in W x 19 ⅜ in H	Brass	Black	Reelcraft	**263D78**
50 ft (½ in I.D.)	½ in MNPT	232 psi	22 in L x 9 ⅛ in W x 19 ⅜ in H	Brass	Black	Reelcraft	**5PG11**
65 ft (⅜ in I.D.)	⅜ in MNPT	232 psi	22 in L x 9 ⅛ in W x 19 ⅜ in H	Brass	Black	Reelcraft	**3MJJ3**
Enclosed Controlled-Retraction Air or Water Spring-Return Hose Reel							
Hose Included							
50 ft (½ in I.D.)	½ in MNPT	300 psi	21 ⅞ in L x 8 ½ in W x 21 ¾ in H	Brass	Blue	Coxreels	**29PY57**
Enclosed Air or Water Spring-Return Hose Reels							
Hose Included							
25 ft (¼ in I.D.)	¼ in MNPT	300 psi	16 ¼ in L x 7 in W x 15 in H	Brass	Red	Reelcraft	**4NB11**
40 ft (½ in I.D.)	½ in MNPT	300 psi	17 11⁄16 in L x 8 11⁄16 in W x 17 ½ in H	Aluminum	Green	Speedaire	**2CUC9**
50 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	17 11⁄16 in L x 8 11⁄16 in W x 17 ½ in H	Aluminum	Green	Speedaire	**2CUC7**
50 ft (½ in I.D.)	⅜ in MNPT	300 psi	21 ⅛ in L x 7 ⅝ in W x 20 ⅞ in H	Nickel Plated Steel	Red	Reelcraft	**4NB13**
Hose Not Included							
50 ft (½ in I.D.)	—	300 psi	21 ⅞ in L x 8 ½ in W x 21 ¾ in H	Brass	Blue	Coxreels	**29PY09**

SPEEDAIRE® REELCRAFT®

Dual-Arm Air or Water Spring-Return Hose Reels

31XG65

448F65

5PG04

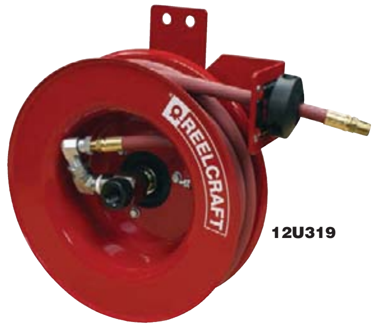
- Mount on a wall, ceiling, or in a truck
- Include a field adjustable guide arm

Feature an all-steel, reinforced dual-pedestal base and arms for increased stability. Reels are powder-coated for corrosion resistance. Hold air or water hoses and are commonly used in manufacturing facilities, auto or fleet service centers, and with food and chemical processing.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Hose Included							
50 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	14 in L x 11 ¼ in W x 15 ⅜ in H	Steel	Green	Speedaire	**31XG65**
50 ft (¾ in I.D.)	¾ in MNPT	300 psi	19 ⅝ in L x 16 ⅛ in W x 20 5⁄16 in H	Brass	Green	Speedaire	**31XG67**
50 ft (¾ in I.D.)	¾ in MNPT	250 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**448F65**
50 ft (¾ in I.D.)	¾ in MNPT	250 psi	26 3⁄16 in L x 12 in W x 27 in H	Brass	Green	Speedaire	**6WA75**
50 ft (1 in I.D.)	¾ in MNPT	250 psi	24 in L x 15 ¾ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA88**
75 ft (½ in I.D.)	½ in MNPT	300 psi	20 ⅞ in L x 12 ½ in W x 21 5⁄16 in H	Brass	Green	Speedaire	**31XG63**
75 ft (½ in I.D.)	½ in MNPT	300 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA86**
75 ft (¾ in I.D.)	¾ in MNPT	300 psi	22 ⅞ in L x 16 ⅛ in W x 23 3⁄16 in H	Steel	Green	Speedaire	**31XG68**
75 ft (¾ in I.D.)	¾ in MNPT	250 psi	24 in L x 13 in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**5PG07**
100 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	20 ⅞ in L x 12 ½ in W x 16 ⅞ in H	Brass	Green	Speedaire	**31XG62**
100 ft (⅜ in I.D.)	⅜ in MNPT	300 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA85**
100 ft (½ in I.D.)	½ in MNPT	300 psi	20 ⅞ in L x 12 ½ in W x 21 5⁄16 in H	Steel	Green	Speedaire	**31XG66**
100 ft (½ in I.D.)	½ in MNPT	300 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**5PG04**
100 ft (½ in I.D.)	½ in MNPT x ¾ in MNPT	300 psi	26 3⁄16 in L x 12 in W x 27 in H	Brass	Green	Speedaire	**6WA74**
Hose Not Included							
50 ft (¾ in I.D.)	—	500 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**59YT27**
100 ft (½ in I.D.)	—	500 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**59YT26**

REELCRAFT®

Side-Mount Air or Water Spring-Return Hose Reels



12U319

- Hose Included
- Max. operating pressure: 300 psi
- Brass swivel
- Red reel color

Side-mount reels mount with their right or left side against a column, a wall, or wherever space is limited. The guide arm on these low-pressure reels adjusts to right hand (top wind) or left hand (bottom mount). Steel bases are robotically welded for maximum strength, all steel components are powder-coated for corrosion resistance, and full-flow shafts and swivels deliver air or water. Compact reels with air or water hoses are used with pneumatic tools, in automotive service centers, and for paint spraying.

Hose Cap.	Hose End Configuration	Overall Dim.	Item No.
25 ft (⅜ in I.D.)	¼ in MNPT	12 ¼ in L x 5 11⁄16 in W x 14 in H	**12U319**
25 ft (½ in I.D.)	½ in MNPT	16 ½ in L x 5 13⁄16 in W x 17 ⅞ in H	**12U321**
50 ft (⅜ in I.D.)	¼ in MNPT	16 ½ in L x 5 13⁄16 in W x 17 ⅞ in H	**12U320**
50 ft (½ in I.D.)	½ in MNPT	16 ½ in L x 6 13⁄16 in W x 17 ⅞ in H	**12U322**

5KPA4

2CAG5

®REELCRAFT

Dual-Pedestal Air or Water Spring-Return Hose Reels

- Hose Included
- Max. operating pressure: 300 psi
- Red reel color
- Nickel-plated steel swivel

Include a reinforced dual-pedestal base and guide arm to reduce vibration during use. Feature an all-steel construction with a baked-on powder-coated finish for corrosion resistance. Low-pressure, compact reels mount on a wall or on the ceiling. Dual-pedestal hose reels and air or water hoses are commonly used in manufacturing facilities, auto or fleet service centers, and food and chemical processing.

Hose Cap.	Hose End Configuration	Overall Dim.	Item No.
35 ft (¼ in I.D.)	¼ in MNPT	14 ⅜ in L x 8 in W x 16 ⅜ in H	5KPA4
35 ft (⅜ in I.D.)	¼ in MNPT	14 ⅜ in L x 8 in W x 16 ⅜ in H	5KPA6
35 ft (½ in I.D.)	⅜ in MNPT x ¼ in MNPT	14 ⅜ in L x 9 in W x 16 ⅜ in H	5KPA8
50 ft (¼ in I.D.)	¼ in MNPT	14 ⅜ in L x 8 in W x 16 ⅜ in H	5KPA5
50 ft (⅜ in I.D.)	¼ in MNPT	16 ½ in L x 8 in W x 17 in H	2CAG5
50 ft (½ in I.D.)	⅜ in MNPT	16 ½ in L x 9 in W x 17 in H	2CAG6

5FZW5

29PX31

COXREELS®

Air or Water Combination Spring-Return Hose Reels

- Max. operating pressure: 300 psi
- Blue reel color
- Brass swivel

Items combine two hose reels in one unit where each reel and hose operates independently and can carry air in one hose, water in the other hose. Combination hose reels are used where two hoses are needed to complete a job and where space is limited. The heavy-duty steel, single-mount base provides stability and is powder-coated for corrosion resistance. Two external fluid paths include 90° full-flow NPT swivel inlets and nitrile seals. Low-pressure reels mount on a wall, floor, or overhead with one mounting pattern to save installation time, and include adjustable guide arms. Reels connect air or water hoses to pneumatic tools, with air/water services, and in washdown applications.

Hose Cap.	Hose End Configuration	Overall Dim.	Item No.
Hose Included			
25 ft (½ in ID)	½ in MNPT x ½ in MNPT	17 in L x 10 ½ in W x 18 ⅝ in H	5FZW8
25 ft (⅝ in ID)	⅜ in MNPT x ⅜ in MNPT		5FZW6
50 ft (¼ in ID)	¼ in MNPT x ¼ in MNPT		5FZW5
50 ft (⅜ in ID)	⅜ in MNPT x ⅜ in MNPT		5FZW7
Hose Not Included			
25 ft (⅜ in ID)	—	17 in L x 10 ½ in W x 18 ⅝ in H	29PX32
25 ft (½ in ID)			29PX35
50 ft (¼ in ID)			29PX31
50 ft (⅜ in ID)			29PX34

4NA94

29RD69

®REELCRAFT COXREELS®

Base Frame Air or Water Spring-Return Hose Reels

- Nickel plated steel swivel

Reels include full-width frames for stable mounting on portable surfaces, for permanent service, or in plant work areas. Low-pressure, powder-coated steel reels resist corrosion and hold shorter lengths of larger diameter hose. Base frame spring-return hose reels and air or water hoses are commonly used in bulk handling, fuel delivery, and construction operations.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Reel Color	Brand	Item No.
Hose Included						
75 ft (¾ in I.D.)	¾ in MNPT	250 psi	26 ¼ in L x 12 in W x 26 ⅜ in H	Red	Reelcraft	4NA94
100 ft (¾ in I.D.)	¾ in MNPT	250 psi	26 ¼ in L x 12 in W x 26 ⅜ in H	Red	Reelcraft	2CAH6
Hose Not Included						
50 ft (1 in I.D.)	—	300 psi	26 ⅜ in L x 19 ⅝ in W x 24 ½ in H	Blue	Coxreels	29RD69

High-Visibility Large-Frame Air or Water Spring-Return Hose Reels

- Hose included
- Max. operating pressure: 300 psi
- Blue reel color
- Brass swivel

Large-frame reels feature a larger chassis and frame that hold longer lengths of hose, or shorter lengths of large diameter hose. These low-pressure, single-pedestal reels mount to a wall, floor, vehicle, or an overhead position, and have a movable guide arm. The dual-axle support system increases stability and reduces vibration during use. These reels with movable arms are commonly used with air or water hoses for washdowns, lubrication, and in auto and fleet service centers.

Hose Cap.	Hose End Configuration	Overall Dim.	Item No.
50 ft (⅜ in I.D.)	⅜ in MNPT	19 ½ in L x 8 ¼ in W x 21 ¼ in H	**60GW11**
50 ft (½ in I.D.)	½ in MNPT	19 ½ in L x 8 ¼ in W x 21 ¼ in H	**60GW14**
75 ft (⅜ in I.D.)	⅜ in MNPT	24 in L x 8 ¼ in W x 21 ¼ in H	**60GW12**
75 ft (½ in I.D.)	½ in MNPT	24 in L x 8 ¾ in W x 25 ½ in H	**60GW15**
100 ft (⅜ in I.D.)	⅜ in MNPT	24 in L x 8 ¼ in W x 21 ¼ in H	**60GW13**
100 ft (½ in I.D.)	½ in MNPT	24 in L x 8 ¾ in W x 25 ½ in H	**60GW16**

NO. 60GW11

45NA97

53DR87

4JNA6

29RE69

10C509

Fuel Spring-Return Hose Reels

Fuel hose reels hold various lengths and diameters of hose for fuel delivery systems including diesel exhaust fluid, gas, and liquid propane. **DEF hose reels** hold hoses that dispense DEF (diesel exhaust fluid) for late model diesel engines and for emerging greener DEF service stations. **Gas hose reels and hoses** are found in utility, ground support, and bulk liquid handling transport services to convey gasoline. **Liquid propane hose reels and hoses** safely handle the transfer of liquid propane for use in agriculture, construction, and heating.

4NB22

2CAH8

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
DEF Spring-Return Hose Reels							
Hose Included							
25 ft (¾ in I.D.)	¾ in MNPT	210 psi	16 in L x 8 ½ in W x 15 in H	Stainless Steel	Gray	Liquidynamics Inc.	**45NA97**
25 ft (¾ in I.D.)	¾ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Red	Reelcraft	**12U317**
26 ft (¾ in I.D.)	¾ in BSP	145 psi	7 in L x 18 ⅛ in W x 19 in H	Polypropylene	Gray	Piusi	**53DR87**
50 ft (½ in I.D.)	½ in MNPT	300 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Red	Reelcraft	**12U316**
50 ft (¾ in I.D.)	¾ in MNPT	210 psi	21 in L x 11 ¾ in W x 23 ½ in H	Stainless Steel	Gray	Liquidynamics Inc.	**45NA98**
50 ft (¾ in I.D.)	¾ in MNPT	300 psi	24 in L x 9 ⅞ in W x 25 ½ in H	Stainless Steel	Blue	Coxreels	**29RD13**
50 ft (¾ in I.D.)	¾ in MNPT	300 psi	26 ¼ in L x 12 in W x 26 ⅜ in H	Stainless Steel	Red	Reelcraft	**12U318**
Dual-Pedestal Gas Spring-Return Hose Reels							
Hose Not Included							
50 ft (¾ in I.D.)	—	500 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**38L545**
50 ft (1 ¼ in I.D.)	—	600 psi	26 ¼ in L x 19 9/16 in W x 26 ⅜ in H	Aluminum	Red	Reelcraft	**4JNA5**
50 ft (1 ½ in I.D.)	—	600 psi	26 ¼ in L x 19 9/16 in W x 26 ⅜ in H	Aluminum	Red	Reelcraft	**4JNA6**
75 ft (¾ in I.D.)	—	300 psi	24 in L x 12 in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE69**
75 ft (¾ in I.D.)	—	500 psi	24 in L x 13 in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**5PG09**
Hose Included							
35 ft (1 in I.D.)	1 in MNPT	250 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**22KW59**
35 ft (1 in I.D.)	1 in MNPT	300 psi	24 in L x 10 in W x 25 ½ in H	Nickel Plated Steel	Blue	Coxreels	**10C509**
50 ft (¾ in I.D.)	¾ in MNPT	300 psi	23 in L x 9 ¾ in W x 25 ½ in H	Brass	Blue	Coxreels	**271D97**
50 ft (¾ in I.D.)	¾ in MNPT	250 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**5PG08**
50 ft (1 in I.D.)	1 in MNPT	250 psi	24 in L x 15 ¾ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NB22**
50 ft (1 in I.D.)	1 in MNPT	300 psi	24 in L x 12 ½ in W x 25 ½ in H	Nickel Plated Steel	Blue	Coxreels	**271D99**
75 ft (¾ in I.D.)	¾ in MNPT	250 psi	24 in L x 13 in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NB21**
Gas Spring-Return Hose Reels							
Hose Included							
25 ft (¾ in I.D.)	¾ in MNPT	250 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**2CAH8**
25 ft (¾ in I.D.)	¾ in MNPT	300 psi	19 ⅝ in L x 9 ¾ in W x 21 in H	Brass	Blue	Coxreels	**260N39**
Hose Not Included							
50 ft (1 in I.D.)	—	500 psi	24 in L x 15 11/16 in W x 25 5/16 in H	Nickel Plated Steel	Red	Reelcraft	**38L539**
Liquid Propane Spring-Return Hose Reels							
Hose Not Included							
50 ft (1 in I.D.)	—	350 psi	24 in L x 7 ⅞ in W x 25 ⅜ in H	LP U/L Rated	Red	Reelcraft	**22KW58**
50 ft (¾ in I.D.)	—	350 psi	24 in L x 10 ½ in W x 25 ⅜ in H	LP U/L Rated	Red	Reelcraft	**22KW91**
75 ft (¾ in I.D.)	—	350 psi	24 in L x 10 ¾ in W x 25 ⅜ in H	LP U/L Rated	Red	Reelcraft	**56MW48**
100 ft (½ in I.D.)	—	300 psi	24 in L x 10 ½ in W x 25 ⅜ in H	LP U/L Rated	Red	Reelcraft	**22KW61**

38L539

22KW58

6AB49

29PZ75

2CAG8

29RE30

Grease Spring-Return Hose Reels

- Hose included

Grease reels hold various lengths and diameters of hose for grease or hydraulic operations.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Standard Grease Spring-Return Hose Reels							
50 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**6AB49**
50 ft (⅜ in I.D.)	¼ in MNPT	4,800 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**4Z175**
75 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**48ZW98**
75 ft (⅜ in I.D.)	¼ in MNPT	4,800 psi	19 ¾ in L x 8 ¼ in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**48ZX01**
100 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	19 ¾ in L x 8 ¼ in W x 20 ½ in H	Nickel Plated Steel	Red	Reelcraft	**48ZW99**
Truck-Mounted Controlled-Retraction Grease Spring-Return Hose Reels							
75 ft (⅜ in I.D.)	⅜ in MNPT	4,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29PZ75**
100 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**33N088**
Truck-Mounted Dual-Pedestal Grease Spring-Return Hose Reel							
50 ft (⅜ in I.D.)	¼ in MNPT	4,800 psi	16 ½ in L x 8 in W x 17 in H	Nickel Plated Steel	Red	Reelcraft	**2CAG8**
Truck-Mounted Grease Spring-Return Hose Reels							
50 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	19 ½ in L x 9 ⅜ in W x 21 ¼ in H	Brass	Blue	Coxreels	**29RE31**
75 ft (⅜ in I.D.)	⅜ in MNPT	4,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE34**
100 ft (¼ in I.D.)	¼ in MNPT	5,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE30**
Dual-Arm Grease Spring-Return Hose Reels							
75 ft (⅜ in I.D.)	⅜ in MNPT	4,800 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA91**
100 ft (⅜ in I.D.)	⅜ in MNPT	4,800 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**5KPC1**

4Z314

59YT33

4NA90

448F70

4NA81

4Z313

29RE46

4NB33

Oil & Hydraulic Oil Spring-Return Hose Reels

For the delivery of oil and hydraulic oil for operating hydraulic cylinders, tools, and equipment.

Hose Cap.	Hose End Configuration	Maximum Operating Pressure	Overall Dim.	Swivel Material	Reel Color	Brand	Item No.
Compact Oil Spring-Return Hose Reels							
Hose Included							
25 ft (⅜ in I.D.)	⅜ in MNPT	2,600 psi	14 ¼ in L x 6 ⅛ in W x 14 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4Z314**
30 ft (⅜ in I.D.)	⅜ in MNPT	2,600 psi	14 ¼ in L x 6 ⅛ in W x 14 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**41GR93**
35 ft (½ in I.D.)	½ in MNPT	3,000 psi	16 ¾ in L x 5 ⅞ in W x 17 ⅝ in H	Nickel Plated Steel	Red	Reelcraft	**4HK91**
Corrosion-Resistant Stainless Steel Oil Spring-Return Hose Reels							
Hose Not Included							
50 ft (½ in I.D.)	—	3,000 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Silver	Reelcraft	**59YT33**
66 ft (⅜ in I.D.)	—	3,000 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Stainless Steel	Silver	Reelcraft	**22KX15**
Dual-Arm Oil Spring-Return Hose Reels							
Hose Included							
50 ft (¾ in I.D.)	¾ in MNPT	1,250 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA90**
75 ft (½ in I.D.)	½ in MNPT	3,000 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**4NA89**
100 ft (½ in I.D.)	½ in MNPT	3,000 psi	24 in L x 10 ½ in W x 25 ⅜ in H	Nickel Plated Steel	Red	Reelcraft	**448F64**
Dual-Pedestal Oil Spring-Return Hose Reels							
Hose Included							
50 ft (⅜ in I.D.)	⅜ in MNPT	2,600 psi	16 ½ in L x 8 in W x 17 in H	Nickel Plated Steel	Red	Reelcraft	**448F70**
50 ft (½ in I.D.)	½ in MNPT	3,000 psi	16 ½ in L x 9 in W x 17 in H	Nickel Plated Steel	Red	Reelcraft	**2CAG7**
Lightweight Oil Spring-Return Hose Reels							
Hose Included							
35 ft (⅜ in I.D.)	⅜ in MNPT	1,000 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Nickel Plated Steel	Black, Red	Reelcraft	**5KPA0**
50 ft (⅜ in I.D.)	⅜ in MNPT	1,000 psi	16 ½ in L x 7 ¾ in W x 17 ⅞ in H	Nickel Plated Steel	Black, Red	Reelcraft	**5KPA1**
35 ft (½ in I.D.)	½ in MNPT	1,000 psi	16 ½ in L x 6 ¼ in W x 17 ⅞ in H	Nickel Plated Steel	Black, Red	Reelcraft	**4NA81**
Standard Oil Spring-Return Hose Reel							
Hose Included							
50 ft (½ in I.D.)	½ in MNPT	2,000 psi	19 ¾ in L x 7 in W x 20 ¼ in H	Nickel Plated Steel	Red	Reelcraft	**4Z313**
Truck-Mount Oil Spring-Return Hose Reels							
Hose Included							
50 ft (½ in I.D.)	½ in MNPT	2,500 psi	19 ½ in L x 9 ⅜ in W x 21 ¼ in H	Brass	Blue	Coxreels	**29RE50**
50 ft (¾ in I.D.)	¾ in MNPT	1,500 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE53**
50 ft (1 in I.D.)	1 in MNPT	1,250 psi	24 in L x 12 ½ in W x 25 ½ in H	Nickel Plated Steel	Blue	Coxreels	**29RE55**
75 ft (¾ in I.D.)	¾ in MNPT	1,500 psi	24 in L x 12 ½ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE54**
100 ft (⅜ in I.D.)	⅜ in MNPT	3,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE46**
Hose Not Included							
50 ft (¾ in I.D.)	—	1,500 psi	24 in L x 9 ⅞ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE43**
75 ft (¾ in I.D.)	—	1,500 psi	24 in L x 12 ½ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE44**
100 ft (⅜ in I.D.)	—	3,000 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE35**
100 ft (½ in I.D.)	—	2,500 psi	24 in L x 9 ⅜ in W x 25 ½ in H	Brass	Blue	Coxreels	**29RE38**
Twin Hydraulic Oil Spring-Return Hose Reel							
Hose Included							
50 ft (½ in ID)	½ in MNPT x ½ in MNPT	2,000 psi	24 in L x 12 ⅞ in W x 25 ⅜ in H	Steel	Red	Reelcraft	**4NB33**

REELCRAFT® COXREELS® SPEEDAIRE®

Multipurpose Hand-Crank Hose Reels

- Hose not included

Open design provides even hose wrapping around drum. Drag brake prevents de-spooling during operation, transport, or storage.

33N095

3MJK2

16X572

19A874

440G18

4NB10

16X560

Hose Cap.	Overall Dim.	Seal Material	Swivel Material	Reel Color	Brand	Item No.
Corrosion-Resistant Stainless Steel Hand-Crank Hose Reels						
Max. Operating Pressure 3,000 psi						
200 ft (½ in I.D.)	20 in L x 18 ¼ in W x 19 in H	FKM	Stainless Steel	Silver	Reelcraft	**4NB30**
200 ft (½ in I.D.)	17 ⅝ in L x 17 ⅜ in W x 18 ¾ in H	Nitrile	Stainless Steel	Silver	Coxreels	**29PP82**
Max. Operating Pressure 4,000 psi						
75 ft (½ in I.D.)	12 in L x 14 in W x 13 in H	Nitrile	Stainless Steel	Silver	Coxreels	**29PP54**
100 ft (¾ in I.D.)	17 in L x 14 in W x 18 in H	Nitrile	Stainless Steel	Silver	Coxreels	**33N095**
Dolly-Mount Hand-Crank Hose Reels						
Max. Operating Pressure 250 psi						
150 ft (⅝ in I.D.)	27 in L x 23 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**3MJK2**
Max. Operating Pressure 4,000 psi						
200 ft (⅜ in I.D.)	21 in L x 19 in W x 36 ¼ in H	Nitrile	Brass	Blue	Coxreels	**16X563**
225 ft (⅜ in I.D.)	21 in L x 23 ½ in W x 36 ¼ in H	Nitrile	Brass	Blue	Coxreels	**16X564**
Large-Frame Multipurpose Hand-Crank Hose Reels						
Max. Operating Pressure 1,500 psi						
50 ft (1 ½ in I.D.)	24 in L x 25 in W x 26 in H	Nitrile	Nickel Plated Steel	Blue	Coxreels	**16X572**
250 ft (1 ½ in I.D.)	28 in L x 46 ½ in W x 30 in H	Nitrile	Nickel Plated Steel	Blue	Coxreels	**29PV73**
Max. Operating Pressure 3,000 psi						
105 ft (1 in I.D.)	19 in L x 34 in W x 21 in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4JNA1**
150 ft (1 in I.D.)	23 in L x 34 in W x 25 ⅛ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4JNA2**
250 ft (½ in I.D.)	19 in L x 30 ½ in W x 21 ⅛ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4JMZ9**
Lightweight Hand-Crank Hose Reels with Tubular-Base						
Max. Operating Pressure 300 psi						
50 ft (⅜ in I.D.)	13 ¼ in L x 15 ½ in W x 15 ⅝ in H	Nitrile	Brass	Black	Reelcraft	**19A874**
100 ft (½ in I.D.)	13 ¼ in L x 19 ½ in W x 15 ⅝ in H	Nitrile	Brass	Black	Reelcraft	**19A877**
Max. Operating Pressure 5,000 psi						
50 ft (⅜ in I.D.)	13 ¼ in L x 15 ½ in W x 15 ⅝ in H	Nitrile	Brass	Black	Reelcraft	**5KPD0**
100 ft (⅜ in I.D.)	13 ¼ in L x 19 ½ in W x 15 ⅝ in H	Nitrile	Brass	Black	Reelcraft	**5KPD1**
Lightweight Hand-Crank Hose Reels with U-Base						
Max. Operating Pressure 300 psi						
50 ft (⅜ in I.D.)	10 ½ in L x 16 ¾ in W x 11 ½ in H	Nitrile	Brass	Black	Reelcraft	**59YT34**
50 ft (⅜ in I.D.)	18 in L x 10 ⅝ in W x 11 ⅝ in H	Nitrile	Brass	Green	Speedaire	**440G18**
100 ft (1 in I.D.)	17 ¾ in L x 26 ⅜ in W x 21 ¹⁄₁₆ in H	FKM/PTFE	Brass	Green	Speedaire	**437J15**
100 ft (½ in I.D.)	12 ⅝ in L x 17 ¹⁵⁄₁₆ in W x 13 ¹³⁄₁₆ in H	Nitrile	Brass	Green	Speedaire	**437J37**
100 ft (⅜ in I.D.)	22 in L x 10 ⅝ in W x 11 ⅝ in H	Nitrile	Brass	Green	Speedaire	**440G19**
Max. Operating Pressure 4,000 psi						
100 ft (⅜ in I.D.)	12 in L x 9 ½ in W x 13 in H	Nitrile	Brass	Blue	Coxreels	**16X555**
Standard Multipurpose Hand-Crank Hose Reels						
Max. Operating Pressure 300 psi						
100 ft (1 in I.D.)	17 ¾ in L x 31 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4NB10**
120 ft (¾ in I.D.)	20 in L x 16 in W x 20 in H	Nitrile	Brass	Green	Speedaire	**4UKX4**
150 ft (1 in I.D.)	17 ¾ in L x 40 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**38EE63**
Max. Operating Pressure 500 psi						
300 ft (⅜ in I.D.)	20 in L x 12 ½ in W x 19 in H	Nitrile	Nickel Plated Steel	Red	Reelcraft	**4NA95**
Max. Operating Pressure 1,000 psi						
100 ft (¾ in I.D.)	14 in L x 14 in W x 18 ⅞ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**5KPC7**
Max. Operating Pressure 3,000 psi						
100 ft (½ in I.D.)	17 in L x 20 in W x 19 in H	FKM	Brass	Green	Speedaire	**440G20**
200 ft (½ in I.D.)	20 ³⁄₁₆ in L x 16 ¹⁵⁄₁₆ in W x 19 ⁷⁄₁₆ in H	FKM	Brass	Green	Speedaire	**6WA77**
Standard Multipurpose Hand-Crank Hose Reels with Gooseneck						
Max. Operating Pressure 1,000 psi						
100 ft (¾ in I.D.)	17 ¾ in L x 25 ¾ in W x 20 ¼ in H	Nitrile	Nickel Plated Steel	Red	Reelcraft	**4NA99**
175 ft (¾ in I.D.)	17 ¾ in L x 31 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**5Z338**
200 ft (½ in I.D.)	17 ¾ in L x 25 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4Z934**
325 ft (½ in I.D.)	17 ¾ in L x 31 ¾ in W x 20 ¼ in H	Nitrile	Nickel Plated Steel	Red	Reelcraft	**38EE60**
Max. Operating Pressure 3,000 psi						
100 ft (¾ in I.D.)	17 ⅝ in L x 17 ⅜ in W x 18 ¾ in H	Nitrile	Brass	Blue	Coxreels	**5FYD6**
100 ft (¾ in I.D.)	17 ¾ in L x 25 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**38EE69**
175 ft (¾ in I.D.)	17 ⅝ in L x 23 ⅜ in W x 18 ¾ in H	Nitrile	Brass	Blue	Coxreels	**5FYD7**
Max. Operating Pressure 5,000 psi						
300 ft (⅜ in I.D.)	17 ¾ in L x 25 ¾ in W x 20 ¼ in H	TFE/P	Nickel Plated Steel	Red	Reelcraft	**4NB24**
Swivel-Mount Hand-Crank Hose Reels						
Max. Operating Pressure 4,000 psi						
100 ft (⅜ in I.D.)	12 in L x 19 in W x 13 ½ in H	FKM	Brass	Black	Coxreels	**16X560**
125 ft (½ in I.D.)	17 in L x 19 in W x 18 ½ in H	FKM	Brass	Black	Coxreels	**16X561**

COXREELS® REELCRAFT®

Multipurpose Motorized Hose Reels

- 12V DC motor
- Hose not included

Reels feature electric or air motor options for automatic hose or cord retraction. These motor-driven hose reels can be used with longer hoses as a water supply, for pressure washing, or grounds maintenance applications.

33N107

38EE74

Hose Cap.	Overall Dim.	Horsepower	Swivel Material	Brand	Item No.
Air Motorized Hose Reel					
Max. Operating Pressure 3,000 psi					
100 ft (½ in I.D.)	17 ⅝ in L x 17 in W x 17 in H	1 ⁷⁄₁₀ hp	Brass	Coxreels	**33N107**
Corrosion-Resistant Stainless Steel Electric Motorized Hose Reels					
Max. Operating Pressure 3,000 psi					
100 ft (1 in I.D.)	24 in L x 24 ⅜ in W x 26 ⅛ in H	⅓ hp	Stainless Steel	Coxreels	**29PT50**
200 ft (½ in I.D.)	17 ⅝ in L x 24 in W x 19 ¾ in H	⅓ hp	Stainless Steel	Coxreels	**29PP79**
Electric Motorized Hose Reels					
Max. Operating Pressure 300 psi					
100 ft (1 in I.D.)	17 ¾ in L x 31 in W x 20 ¼ in H	⅓ hp	Steel	Reelcraft	**38EE79**
Max. Operating Pressure 3,000 psi					
100 ft (½ in I.D.)	17 ⅝ in L x 18 in W x 19 ¾ in H	⅓ hp	Stainless Steel	Coxreels	**29PP65**
200 ft (½ in I.D.)	17 ⅝ in L x 24 in W x 19 ¾ in H	⅓ hp	Brass	Coxreels	**16X568**
Electric Motorized Hose Reels with Gooseneck					
Max. Operating Pressure 1,000 psi					
100 ft (½ in I.D.)	17 ¾ in L x 19 ⅝ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE74**
100 ft (¾ in I.D.)	17 ¾ in L x 23 ⅞ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE77**
175 ft (¾ in I.D.)	17 ¾ in L x 29 ⅝ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE78**
200 ft (½ in I.D.)	17 ¾ in L x 23 ⅞ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE75**
Max. Operating Pressure 3,000 psi					
100 ft (1 in I.D.)	17 ¾ in L x 31 in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE84**
100 ft (½ in I.D.)	17 ⅝ in L x 18 in W x 19 ¾ in H	⅓ hp	Brass	Coxreels	**29PP57**
100 ft (¾ in I.D.)	17 ¾ in L x 23 ⅞ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE82**
125 ft (1 in I.D.)	17 ¾ in L x 35 in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE85**
200 ft (½ in I.D.)	17 ¾ in L x 23 ⅞ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**5Z340**
275 ft (¾ in I.D.)	17 ¾ in L x 38 ⅝ in W x 20 ¼ in H	⅓ hp	Iron	Reelcraft	**38EE83**
Hazardous-Location Electric Motorized Hose Reels					
Max. Operating Pressure 300 psi					
100 ft (2 in I.D.)	25 in L x 34 in W x 26 ½ in H	⅔ hp	Aluminum	Reelcraft	**56MW42**
150 ft (2 ½ in I.D.)	47 in L x 46 in W x 47 ½ in H	⅔ hp	Aluminum	Reelcraft	**38EE57**
Max. Operating Pressure 600 psi					
230 ft (1 in I.D.)	21 in L x 32 ½ in W x 26 ½ in H	⅔ hp	Aluminum	Reelcraft	**56MW44**
365 ft (1 in I.D.)	32 ½ in L x 24 in W x 32 ½ in H	⅔ hp	Aluminum	Reelcraft	**56MW45**
Max. Operating Pressure 3,000 psi					
155 ft (1 in I.D.)	30 ½ in L x 23 in W x 24 ½ in H	⅔ hp	Iron	Reelcraft	**56MW39**
230 ft (1 in I.D.)	23 in L x 40 ½ in W x 25 ⅛ in H	⅔ hp	Nickel Plated Steel	Reelcraft	**4JNA4**
305 ft (1 in I.D.)	28 ½ in L x 31 in W x 32 ½ in H	⅔ hp	Iron	Reelcraft	**56MW40**

Find more Barbs, Menders, Ferrules, Crimps and Die Modules at Grainger.com®.

Beaded Hose Barb
6AFJ0

Hose Barb
6AFG7

Hose Mender
6AFH1

Hose Ferrule
2A733

Hose Crimper
6CEC4

Die Module
6CEC5

SPEEDAIRE®

Hose Barbs, Menders, Ferrules, Crimper and Die Modules

Provide fast, easy hookup for bulk hose pipe thread fittings.

BEADED HOSE BARBS

Flat area between the barb and the body fitting allows the greatest area possible for clamping.

HOSE MENDERS

Connect on any 2 hoses or a broken hose that meets dimensional specifications.

BRASS HOSE FERRULES

Long-barrel ferrules crimp air hose to barb to form a permanent assembly.

HOSE CRIMPER

Portable or workbench-mounted crimper secures standard brass ferrules onto general purpose or heavy-duty air, water, and material hose for a complete hose assembly. Includes 5 die sets.

DIE MODULES

Hardened steel ribbed die sets can be used for crimping ¼" single-braid through ⅜" double-braid compressed air line hose or standard air line cables.

For Hose I.D.	Fitting Size	Fitting Gender	Nipple Grip Type	Brand	Item No.
Barbed Hose Fittings					
45° Elbow, Hose Barb x NPT					
¼ in	¼ in x ¼ in	Male x Male	No Knurl	—	**6AFR4**
⅜ in	⅜ in x ¼ in	Male x Male	No Knurl	—	**6AFR5**
90° Elbow, Hose Barb x NPT					
¼ in	¼ in x ¼ in	Male x Male	No Knurl	Speedaire	**6AFG8**
¼ in	¼ in x ⅛ in	Male x Male	No Knurl	Speedaire	**6AFH0**
¼ in	¼ in x ⅜ in	Male x Male	No Knurl	—	**6AFR0**
5⁄16 in	5⁄16 in x ⅜ in	Male x Male	No Knurl	Speedaire	**6AFJ4**
5⁄16 in	5⁄16 in x ¼ in	Male x Male	No Knurl	Speedaire	**6AFK5**
⅜ in	⅜ in x ¼ in	Male x Male	No Knurl	Speedaire	**6AFH4**
⅜ in	⅜ in x ⅛ in	Male x Male	No Knurl	Speedaire	**6AFK2**
⅜ in	⅜ in x ⅜ in	Male x Male	No Knurl	—	**6AFL6**
⅜ in	⅜ in x ½ in	Male x Male	No Knurl	—	**6AFT1**
½ in	½ in x ⅜ in	Male x Male	No Knurl	—	**6AFK8**
½ in	½ in x ¼ in	Male x Male	No Knurl	—	**6AFR2**
¾ in	¾ in x ¾ in	Male x Male	No Knurl	—	**6AFP2**
Straight, Hose Barb x NPSM					
¼ in	¼ in x ¼ in	Male x Female	Hex	—	**6AFR9**
⅜ in	⅜ in x ⅜ in	Male x Male	Hex	—	**6AFP8**
⅜ in	⅜ in x ⅜ in	Male x Female	Hex	—	**6AFT0**
½ in	½ in x ½ in	Female x Male	Hex	—	**6AFR1**
Straight, Hose Barb x NPT					
⅛ in	⅛ in x ⅛ in	Male x Male	Hex	—	**6AFP4**
3⁄16 in	3⁄16 in x ⅛ in	Male x Male	Hex	—	**6AFP5**
3⁄16 in	3⁄16 in x ¼ in	Male x Male	Hex	—	**6AFP6**
¼ in	¼ in x ⅛ in	Male x Male	Hex	—	**6AFH3**
¼ in	¼ in x ⅛ in	Male x Female	Hex	—	**6AFL0**
¼ in	¼ in x ⅜ in	Male x Male	Hex	—	**6AFN2**
¼ in	¼ in x ¼ in	Male x Female	Hex	—	**6AFN5**
¼ in	¼ in x ¼ in	Male x Male	Hex	Speedaire	**6AFP0**
¼ in	¼ in x ¼ in	Male x Male	Hex	—	**6AFP7**
5⁄16 in	5⁄16 in x ⅛ in	Male x Male	Hex	Speedaire	**6AFK6**
5⁄16 in	5⁄16 in x ⅜ in	Male x Male	Hex	—	**6AFK7**
5⁄16 in	5⁄16 in x ¼ in	Male x Male	Hex	Speedaire	**6AFL3**
5⁄16 in	5⁄16 in x ¼ in	Male x Female	Hex	—	**6AFR3**
⅜ in	⅜ in x ⅛ in	Male x Male	Hex	—	**6AFG7**
⅜ in	⅜ in x ¼ in	Male x Male	Hex	—	**6AFH6**
⅜ in	⅜ in x ⅜ in	Male x Female	Hex	—	**6AFN1**
⅜ in	⅜ in x ¼ in	Male x Female	Hex	—	**6AFN3**
⅜ in	⅜ in x ½ in	Male x Male	Hex	—	**6AFN4**
⅜ in	⅜ in x ⅜ in	Male x Male	Hex	Speedaire	**6AFN8**
⅜ in	⅜ in x ⅛ in	Male x Female	Hex	—	**6AFT2**
½ in	½ in x ¼ in	Male x Male	Hex	—	**6AFG9**
½ in	½ in x ⅜ in	Male x Male	Hex	—	**6AFH2**
½ in	½ in x ¾ in	Male x Male	Hex	—	**6AFL7**
½ in	½ in x ½ in	Male x Female	Hex	—	**6AFN0**
½ in	½ in x ½ in	Male x Male	Hex	—	**6AFN9**
½ in	½ in x ⅜ in	Male x Female	Hex	—	**6AFP3**
½ in	½ in x ½ in	Male x Male	Hex	—	**6AFP9**
⅝ in	⅝ in x ⅜ in	Male x Male	Hex	Speedaire	**6AFJ9**
⅝ in	⅝ in x ¾ in	Male x Male	Hex	—	**6AFL2**
⅝ in	⅝ in x ½ in	Male x Male	Hex	—	**6AFL4**
¾ in	¾ in x ½ in	Male x Male	Hex	—	**6AFL8**
¾ in	¾ in x ¾ in	Male x Male	Hex	—	**6AFN6**
1 in	1 in x ¾ in	Male x Male	Hex	—	**6AFL5**
1 in	1 in x 1 in	Male x Male	Hex	—	**6AFN7**
Straight, Hose Barb x UNF					
⅜ in	⅜ in x ⅝ in	Male x Female	Hex	—	**6AFR8**
Barbed Hose Menders					
Brass, Hose Barb x Hose Barb					
¼ in	¼ in x ¼ in	Male x Male	—	—	**6AFH1**
5⁄16 in	5⁄16 in x 5⁄16 in	Male x Male	—	Speedaire	**6AFK9**
⅜ in	⅜ in x ⅜ in	Male x Male	—	Speedaire	**6AFH5**
½ in	½ in x ½ in	Male x Male	—	—	**6AFL9**
Beaded Hose Fittings					
90° Elbow, Hose Barb x NPT					
⅜ in	⅜ in x ⅜ in	Male x Male	—	—	**6AFJ7**
½ in	½ in x ⅜ in	Male x Male	—	—	**6AFJ0**
½ in	½ in x ½ in	Male x Male	—	—	**6AFL1**
⅝ in	⅝ in x ½ in	Male x Male	—	Speedaire	**6AFK1**
¾ in	¾ in x ½ in	Male x Male	—	Speedaire	**6AFK0**
Straight, Hose Barb x NPT					
⅜ in	⅜ in x ⅜ in	Male x Male	—	Speedaire	**6AFJ8**
½ in	½ in x ⅜ in	Male x Male	—	Speedaire	**6AFH8**
½ in	½ in x ½ in	Male x Male	—	—	**6AFK3**
⅝ in	⅝ in x ⅜ in	Male x Male	—	Speedaire	**6AFH7**
⅝ in	⅝ in x ½ in	Male x Male	—	—	**6AFJ3**
¾ in	¾ in x ½ in	Male x Male	—	—	**6AFJ1**
¾ in	¾ in x ¾ in	Male x Male	—	—	**6AFK4**
1 in	1 in x ¾ in	Male x Male	—	—	**6AFJ5**

Inside Dia.	Hole Dia.	Barb Size	Brand	Item No.
Brass Hose Ferrules				
0.525 in	0.406 in	¼ in	Speedaire	**2A733**
0.725 in	0.5 in	⅜ in	Speedaire	**2A734**
0.85 in	0.687 in	½ in	Speedaire	**2A735**

Cap.	For Use With	Brand	Item No.
Hose Crimper			
¼ to ⅜ in	Hose Barbs and Ferrules	—	**6CEC4**

Crimping Cap.	Replacement Die Code	Brand	Item No.
Die Modules For Use With 6CEC4			
⅜	1-63	—	**6CEC5**
¼ to ⅜	2-63:58	—	**6CEC6**
¼	3-58:53	—	**6CEC7**
¼	4-53:48	—	**6CEC8**
¼ to ⅜	5-48:68	—	**6CEC9**
⅜	6-68	—	**6CED0**

3MC04

Safety Cables

Carbon steel cables prevent hose whip if couplings or clamp devices accidentally separate. Max. working pressure: 125 psi for air only.

Description	Cable Dia.	Hose I.D.	L	Item No.
Hose to Hose	⅛ in	½ in to 1¼ in	20 ¼ in	**3MC05**
	¼ in	1½ in to 3 in	38 in	**3MC04**
Hose to Tool	⅛ in	½ in to 1¼ in	20 ¼ in	**3MC06**
	¼ in	1½ in to 3 in	38 in	**3MC07**

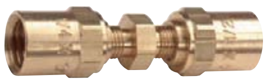
Multipurpose Reusable Hose Fittings

- 250 psi max.

They have a male NPT end that attaches to pipe and a genderless end that screws onto a hose end and is secured with a wrench. Reusable hose ends are used in multipurpose hose assemblies to convey air, water, or chemicals and can be removed and used again.

MULTIPURPOSE REUSABLE HOSE MENDERS

Commonly used to repair and connect damaged multipurpose hoses in the field. These fittings have two male ends that screw onto hose ends and are tightened with a wrench to create a leak-resistant seal. Reusable hose menders are used in multipurpose hose assemblies to convey air, water, or chemicals and can be removed and used again.



6X426

6X423

Pipe Fitting Connection Type	For Hose O.D.	Thread Size	Thread Type	Item No.
Multipurpose Reusable Hose Ends				
Hose Barb x NPT	½ in	¼ in	NPT	**6X423**
Hose Barb x NPT	⅝ in	¼ in	NPT	**2X769**
Hose Barb x NPT	11⁄16 in	⅜ in	NPT	**6X424**
Hose Barb x NPT	13⁄16 in	½ in	NPT	**6X425**
Multipurpose Reusable Hose Menders				
Hose Barb x Hose Barb	½ in	—	—	**6X426**
Hose Barb x Hose Barb	⅝ in	—	—	**2X770**
Hose Barb x Hose Barb	11⁄16 in	—	—	**6X427**

3LX96

3LX95

Universal Couplings

- Constructed of malleable iron
- Same gasket, safety clip, and lanyard for all coupling sizes, except self locking couplings use gasket 36LH62
- Gasket temp. range: -20° to 160°F

A sexless common head design eliminates mismatched fitting and allows direct locking connection between any 2 fittings from ¼" to 1". 6YZH1 to 6YZH4 do not require a pin.

Note: Do not use coupling for steam service. Rated for air service only, up to 110 psi.

Hose Fitting Size	BLANK END Item No.	(F)NPT END Item No.	(M)NPT END Item No.	HOSE END Item No.	(F)NPT SELF LOCKING Item No.	(M)NPT SELF LOCKING Item No.
—	3LX85	—	—	—	—	—
¼ in	—	3LZ01	3LX98	—	—	—
⅜ in	—	3LX99	3LX97	3LZ02	—	—
½ in	—	3LX92	3LX91	3LX86	6YZH1	6YZH3
⅝ in	—	—	—	3LX93	—	—
¾ in	—	3LX96	3LX95	3LX94	6YZH2	6YZH4
1 in	—	3LX90	3LX89	3LX88	—	—

Description	Pkg. Qty.	Item No.
Universal Coupling Triple Connection	1	3LX87
Safety Clip	25	3LX83
Nylon Lanyard	25	3LX84
Gasket	50	3LZ03

Steam Hose Barbed Fittings

- Male x Male fitting
- Hose barb x NPT connection type
- Steel material

Steam hose barbed fittings are typically used in low-pressure steam heating, humidification, and washdown applications up to 150 psi. They provide compatible threads for connecting steam hoses to equipment in steam systems. Also known as hose nipples, they have raised ridges (or barbs) on one end that grip the inside of the hose to hold it in place and are secured with a clamp for a leak-resistant seal.

3LZ70

Fitting Size	For Hose Dash Size	Compatible Pipe Size	Item No.
½ in x ¼ in	-8	½ in	3LZ76
½ in x ⅜ in			3LZ77
½ in x ½ in			3LZ70
½ in x ¾ in			3LZ75
¾ in x ½ in	-12	¾ in	3LZ73
¾ in x ¾ in			3LZ74
¾ in x 1 in			3LZ72
1 in x 1 in	-16	1 in	3LZ71

3LX82

3LX79

Steam Hose Clamps

- Carbon steel construction

Steam hose clamps secure steam hose fittings onto hoses to firmly grip the hose and form a tight seal. Also called interlocking hose clamps or bolt clamps, these reusable clamps fit over hoses and include bolts that are tightened or loosened with a wrench.

For Hose Minimum O.D.	For Hose Maximum O.D.	Item No.
2 Bolt		
11⁄16 in	⅞ in	3LZ20
13⁄16 in	15⁄16 in	3LZ27
15⁄16 in	1 1⁄16 in	3LZ07
1 in	1 3⁄16 in	3LX81
1 1⁄16 in	1 3⁄16 in	3LZ08
1 3⁄16 in	1 5⁄16 in	3LZ12
1 ⅛ in	1 5⁄16 in	3LX82
1 3⁄16 in	1 5⁄16 in	3LZ11
1 5⁄16 in	1 ½ in	3LZ09
1 5⁄16 in	1 ½ in	3LX79
1 ½ in	1 13⁄16 in	3LX80
4 Bolt		
1 9⁄16 in	1 11⁄16 in	3LZ10
1 11⁄16 in	1 15⁄16 in	3LZ05
2 ⅛ in	1 15⁄16 in	3LZ06

Duct Connectors

Permanently or temporarily connect hoses to create longer lengths. Made from 304 stainless steel.

Outside Dia. (in.)	L (in.)	Item No.
Ducting Hose Connectors		
4 in	4 in	2TA34
5 in	4 in	2TA35
6 in	4 in	2TA36
8 in	4 in	2TA37
10 in	4 in	2TA38
12 in	4 in	2TA39
Inside Dia. (in.)	**W (in.)**	**Item No.**
Quick-Release Clamps		
4 in	⅞ in	2TA48
6 in	⅞ in	2TA49
8 in	⅞ in	2TA50
10 in	⅞ in	2TA51
12 in	⅞ in	2TA52

2TA37

2TA50

Constant Tension Clamps

- ⅝" band width
- 300 stainless steel band/housing/bridge
- Pkg. qty.: 10

Spring design helps to eliminate "cold flow" leakage. 0.028"-thick clamps, 142 in.-lb. of max. torque.

Min. Clamp Dia.	Max. Clamp Dia.	HOSE CLAMP SCREW MATERIAL Plated Carbon Steel Item No.	410 Stainless Steel Item No.
1 in	1 ¾ in	16P218	16P234
1 ¼ in	2 ⅛ in	16P219	16P235
1 ¾ in	2 ⅝ in	16P220	16P236
2 ¼ in	3 ⅛ in	16P221	16P237
2 ¾ in	3 ⅝ in	16P222	16P238
3 ¼ in	4 ⅛ in	16P223	16P239
3 ¾ in	4 ⅝ in	16P224	16P240
4 ¼ in	5 ⅛ in	16P225	16P241
4 ¾ in	5 ⅝ in	16P226	16P242
5 ¼ in	6 ⅛ in	16P227	16P243
5 ¾ in	6 ⅝ in	16P228	16P244
6 ¼ in	7 ⅛ in	16P229	16P245
6 ¾ in	7 ⅝ in	16P230	16P246
7 ¼ in	8 ⅛ in	16P231	16P247
7 ¾ in	8 ⅝ in	16P232	16P248
8 ¼ in	9 ⅛ in	16P233	16P249

16P249

Steam Hose Ground-Joint Coupling Spuds

3ATP7

- Zinc-plated construction
- Max. temp. 450°F

Feature a hex bushing, making them easier to tighten with a wrench. Commonly used to connect hoses in high-pressure applications. Provide compatible threads for connecting two lengths of steam hose or for connecting a length of hose to equipment. These barbed hose fittings grip the inside of the hose to hold the fitting in place and are secured with an interlocking clamp to create a leak-resistant seal.

Thread Size	Fitting Material	Spud Gender	Hex Head Size	Item No.
½ in	Steel	Male Spud	1 ⅜ in	3ATP7
¾ in			1 ⅞ in	3ATP8
1 in				3ATP9

Scan. Order. Done.
Details on page A1.

1A531

Industrial-Strength Hose Clamps—68 Series

- 9/16" band width
- 5/16" 410 stainless steel hex head screw
- 201 stainless steel band/housing
- Pkg. qty.: 10

No spot welds or staking; suitable for industrial sealing applications. Interlocked design resists rupture and shearing.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
6	3/8 in	7/8 in	5X443
10	1/2 in	1 1/16 in	5X444
12	1/2 in	1 1/4 in	1A529
16	11/16 in	1 1/2 in	4XZ77
20	3/4 in	1 3/4 in	5X445
36	3/4 in	2 3/4 in	2W404
24	1 in	2 in	2W402
28	1 1/4 in	2 1/4 in	1A530
32	1 1/2 in	2 1/2 in	2W403
44	1 1/4 in	3 1/4 in	2W405
64	2 1/2 in	4 1/2 in	5X446
72	3 in	5 in	1A531
104	5 in	7 in	1A532

4XZ73

Snaplock Quick-Release Hose Clamps

- Pkg. qty.: 10

Use reusable worm-drive hose clamps for closed system applications where clamp must be disengaged to be applied.

Serial	Band Size	Hex Head Screw	Screw Material	Band/Housing Material
56 Series	9/16"	5/16"	Carbon Steel	201 SS
58 Series	9/16"	3/8"	410 SS	201 SS

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	56 SERIES Item No.	58 SERIES Item No.
12	1/2 in	1 1/4 in	4XZ72	1XHF4
20	3/4 in	1 3/4 in	1XHE7	1XHF5
24	1 1/16 in	2 in	1XHE8	1XHF6
28	1 in	2 1/4 in	4XZ74	1XHF7
36	1 in	2 3/4 in	1XHE9	1XHF8
48	1 1/2 in	3 1/2 in	4XZ75	1XHF9
56	1 in	4 in	1XHF1	1XHG1
72	2 in	5 in	1XHF2	1XHG2
88	2 in	6 in	4XZ76	1XHG3
104	2 7/8 in	7 3/4 in	1XHF3	1XHG4
188	2 in	12 1/4 in	4XZ73	—

5X441

1A528

Miniature General-Purpose Hose Clamps

- 5/16" band width
- 301 stainless steel band/housing
- Pkg. qty.: 10

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
62M Series, 1/4" 300 SS Hex-Head Screw			
4	5/16 in	5/8 in	1A527
5	5/16 in	3/4 in	5CZD3
6	5/16 in	7/8 in	1A528
10	1/2 in	1 1/16 in	5CZD4
16	11/16 in	1 1/2 in	5CZD5
20	3/4 in	1 3/4 in	5CZD6
24	1 in	2 in	5CZD7
32	1 1/2 in	2 1/2 in	5CZD8
36	1 3/4 in	2 3/4 in	5CZD9
62P Series, 1/4" Zinc-Plated Hex-Head Screw			
4	5/16 in	5/8 in	5X441
6	5/16 in	7/8 in	5X442

2PA57

General-Purpose Hose Clamps

- Pkg. qty.: 10

Interlocked construction resists shear.

Serial	Band Size	Hex Head Screw	Screw Material	Band/Housing Material
52 Series	1/2"	5/16"	Carbon Steel	201 SS/Carbon Steel
57 Series	1/2"	5/16"	Carbon Steel	201 SS
63-4 Series	9/16"	5/16"	305 SS	301 SS
67-1 Series	1/2"	5/16"	410 SS	201 SS

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	52 SERIES Item No.	57 SERIES Item No.	63-4 SERIES Item No.	67-1 SERIES Item No.
4	5/16 in	5/8 in	16P269 *	—	—	—
6	3/8 in	7/8 in	16P271	2PA57	5CYZ3	16P292
6	7/16 in	11/16 in	16P270	—	—	—
8	7/16 in	1 in	16P272	2PA58	5CYZ4	16P293
10	1/2 in	1 1/16 in	16P273	2PA59	5CYZ5	16P294
12	1/2 in	1 1/4 in	16P274	2PA60	5CYZ6	16P295
16	11/16 in	1 1/2 in	16P275	2PA61	5CYZ7	16P296
20	3/4 in	1 3/4 in	16P276	2PA62	5CYZ8	16P297
36	3/4 in	2 3/4 in	16P280	2PA66	5CZA2	16P302
24	1 in	2 in	16P277	2PA63	5CYZ9	16P298
28	1 1/4 in	2 1/4 in	16P278	2PA64	5CZA0	16P299
32	1 1/2 in	2 1/2 in	16P279	2PA65	5CZA1	16P301
40	1 in	3 in	16P281	2PA67	5CZA3	16P303
44	1 1/4 in	3 1/4 in	16P282	2PA68	5CZA4	16P304
48	1 1/2 in	3 1/2 in	16P283	2PA69	5CZA5	16P305
52	1 3/4 in	3 3/4 in	16P284	2PA70	5CZA6	16P306
56	2 in	4 in	16P285	2PA71	5CZA7	—
64	2 1/2 in	4 1/2 in	16P286	2PA72	5CZA8	16P309
60	2 1/4 in	4 1/4 in	—	—	—	16P308
56	3 in	4 in	—	—	—	16P307
72	3 in	5 in	16P287	2PA73	5CZA9	16P310
80	3 1/2 in	5 1/2 in	16P288	2PA74	5CZC0	16P311
88	4 in	6 in	16P289	2PA75	5CZC1	16P312
96	4 1/2 in	6 1/2 in	16P290	2PA76	5CZC2	16P313
104	5 in	7 in	16P291	2PA77	5CZC3	16P314

** 16P269 has a 5/16" band size.*

4XZ79

6X Series High-Torque/Tension Hose Clamps

- 800 lb. of tension at 150 in.-lb. of torque
- 5/8" band width
- 5/16" 410 stainless steel hex head screw
- 300 stainless steel band/housing

Designed for high-vibration and stubborn leakage applications. Extra band notches allow greater open/close working diameters.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.	Pkg. Qty.
262	1 1/4 in	2 5/8 in	4XZ78	10
412	2 in	4 1/8 in	4XZ79	10
612	4 in	6 1/8 in	4XZ80	5
912	6 in	9 1/8 in	4XZ81	5

1XGY5

Lined Hose Clamps

- 1/2" band width
- 5/16" plated steel hex screw
- 201 stainless steel housing
- Pkg. qty.: 10

Clamps are smooth-lined to protect soft hoses from shearing.

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
6	1/2 in	7/8 in	1XGY5
8	5/8 in	1 in	1XGY6
10	11/16 in	1 1/16 in	1XGY7
12	11/16 in	1 1/4 in	1XGY8
16	3/4 in	1 1/2 in	1XGY9
20	1 in	1 3/4 in	1XGZ1
24	1 1/16 in	2 in	1XGZ2
28	1 5/16 in	2 1/4 in	1XGZ3
32	1 9/16 in	2 1/2 in	1XGZ4
36	1 13/16 in	2 3/4 in	1XGZ5
40	2 1/16 in	3 in	1XGZ6
44	2 5/16 in	3 1/4 in	1XGZ7
48	2 9/16 in	3 1/2 in	1XGZ8
52	2 13/16 in	3 3/4 in	1XGZ9
56	3 1/16 in	4 in	1XHA1
60	3 5/16 in	4 1/4 in	1XHA2
64	3 9/16 in	4 1/2 in	1XHA3
72	4 1/16 in	5 in	1XHA4

UPC-IAPMO-Approved Hose Clamps

- ½" band width
- Pkg. qty.: 10

Series 67-4 are 301 stainless steel band/housing. Series 67-5 are 201 stainless steel band/housing.

1XHB5

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	SERIES 67-4, 5⁄16" 305 SS HEX HEAD SCREW Item No.	SERIES 67-5, 5⁄16" 204 SS HEX HEAD SCREW Item No.
6	⅜ in	⅞ in	1XHB5	5CZE0
8	7⁄16 in	1 in	1XHB6	5CZE1
10	½ in	1 1⁄16 in	1XHB7	5CZE2
12	½ in	1 ¼ in	1XHB8	5CZE3
16	11⁄16 in	1 ½ in	1XHB9	5CZE4
20	¾ in	1 ¾ in	1XHC1	5CZE5
24	1 in	2 in	1XHC2	5CZE6
28	1 ¼ in	2 ¼ in	1XHC3	5CZE7
32	1 ½ in	2 ½ in	1XHC4	5CZE8
36	¾ in	2 ¾ in	1XHC5	5CZE9
40	1 in	3 in	1XHC6	5CZF0
44	1 ¼ in	3 ¼ in	1XHC7	5CZF1
48	1 ½ in	3 ½ in	1XHC8	5CZF2
52	1 ¾ in	3 ¾ in	1XHC9	—
56	2 in	4 in	1XHD1	—
60	2 ¼ in	4 ¼ in	1XHD2	—
64	2 ½ in	4 ½ in	1XHD3	—
72	3 in	5 in	1XHD4	—
80	3 ½ in	5 ½ in	1XHD5	—
88	4 in	6 in	1XHD6	—
96	4 ½ in	6 ½ in	1XHD7	—
104	5 in	7 in	1XHD8	—

SAE No.	Min. Clamp Dia.	Max. Clamp Dia.	Item No.
138	1 ⅜ in	1 9⁄16 in	1XGU2
150	1 ½ in	1 ⅝ in	1XGU3
163	1 ⅝ in	1 ⅞ in	1XGU4
175	1 ¾ in	2 in	1XGU5
188	1 ⅞ in	2 3⁄16 in	1XGU6
200	2 in	2 5⁄16 in	1XGU7
213	2 ⅛ in	2 7⁄16 in	1XGU8
225	2 ¼ in	2 9⁄16 in	1XGU9
238	2 ⅜ in	2 11⁄16 in	1XGV1
250	2 ½ in	2 13⁄16 in	1XGV2
263	2 ⅝ in	2 15⁄16 in	1XGV3
275	2 ¾ in	3 1⁄16 in	1XGV4
288	2 ⅞ in	3 3⁄16 in	1XGV5
300	3 in	3 5⁄16 in	1XGV6
313	3 ⅛ in	3 7⁄16 in	1XGV7
325	3 ¼ in	3 9⁄16 in	1XGV8
338	3 ⅜ in	3 11⁄16 in	1XGV9
350	3 ½ in	3 13⁄16 in	1XGW1
363	3 ⅝ in	3 15⁄16 in	1XGW2
375	3 ¾ in	4 1⁄16 in	1XGW3
400	4 in	4 5⁄16 in	1XGW4
425	4 ¼ in	4 9⁄16 in	1XGW5
450	4 ½ in	4 13⁄16 in	1XGW6
475	4 ¾ in	5 1⁄16 in	1XGW7
500	5 in	5 5⁄16 in	1XGW8
525	5 ¼ in	5 9⁄16 in	1XGW9
550	5 ½ in	5 13⁄16 in	1XGX1
575	5 ¾ in	6 1⁄16 in	1XGX2
600	6 in	6 5⁄16 in	1XGX3
625	6 ¼ in	6 9⁄16 in	1XGX4
650	6 ½ in	6 13⁄16 in	1XGX5
675	6 ¾ in	7 1⁄16 in	1XGX6
700	7 in	7 5⁄16 in	1XGX7
725	7 ¼ in	7 9⁄16 in	1XGX8
750	7 ½ in	7 13⁄16 in	1XGX9
775	7 ¾ in	8 1⁄16 in	1XGY1
800	8 in	8 5⁄16 in	1XGY2
825	8 ¼ in	8 9⁄16 in	1XGY3
850	8 ½ in	8 13⁄16 in	1XGY4

1XGU2

30011 Series T-Bolt Hose Clamps

- ¾" band width
- 7⁄16" 300 stainless steel hex head screw
- 300 stainless steel band and trunnion
- Pkg. qty.: 5

Marine-grade clamps are excellent for high-vibration, large-diameter applications.

Center-Punch Band Clamps

- Pkg. qty.: 10

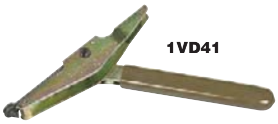
Double-wrapped for firm and easy locking. Install with 1VD40 or 1VD41 tools, sold separately, this page.

W (in.)	For Hose O.D. Min. (in.)	For Hose O.D. Max. (in.)	GALVANIZED STEEL Item No.	STAINLESS STEEL Item No.
⅜ in	¾ in	⅞ in	3LZ50	3LZ62
	1 9⁄32 in	1 7⁄16 in	3LZ51	3LZ63
⅝ in	15⁄16 in	1 1⁄32 in	3LZ52	3LZ64
	1 3⁄16 in	1 9⁄32 in	3LZ53	3LZ65
	1 7⁄16 in	1 17⁄32 in	3LZ54	3LZ66
	1 11⁄16 in	1 25⁄32 in	3LZ55	3LZ67
	1 15⁄16 in	2 1⁄32 in	3LZ56	3LZ68
	2 3⁄16 in	2 9⁄32 in	3LZ57	3LZ69
	2 7⁄16 in	2 17⁄32 in	3LZ46	3LZ58
	2 11⁄16 in	2 25⁄32 in	3LZ47	3LZ59
	2 15⁄16 in	3 1⁄32 in	3LZ48	3LZ60
	3 15⁄16 in	4 1⁄32 in	3LZ49	3LZ61

3LZ56

3LZ61

1VD40



1VD41

Center-Punch Band Clamp Tools

Description	Item No.
For High-Production Use	1VD40
For Intermittent Use	1VD41

BAND-IT®

Preformed Center Punch Clamps

- Pkg. qty.: 10

Clamps are double-wrapped, with 201 stainless steel buckles for added strength. Can be installed with Center Punch Tools 2LPG7 and 2LPK4, sold separately on page 2536.

2LPD8

Width (in.)	Min. Clamp Dia. (in.)	Max. Clamp Dia. (in.)	201 STAINLESS STEEL Item No.	GALVANIZED CARBON STEEL Item No.
⅜ in	9⁄16 in	13⁄16 in	2LPF4	2LPD1
	9⁄16 in	1 ⅜ in	2LPG6	2LPF3
⅝ in	¾ in	1 in	2LPF5	2LPD2
	¾ in	1 ¼ in	2LPF6	2LPD3
	¾ in	1 ½ in	2LPF7	2LPD4
	¾ in	1 ¾ in	2LPF8	2LPD5
	¾ in	2 in	2LPF9	2LPD6
	¾ in	2 ¼ in	2LPG1	2LPD7
	¾ in	2 ½ in	2LPG2	2LPD8
	¾ in	2 ¾ in	2LPG3	2LPD9
	¾ in	3 in	2LPG4	2LPF1
	¾ in	3 ½ in	6YPZ5	6YPZ4
	¾ in	4 in	2LPG5	2LPF2
	¾ in	4 ½ in	6YPZ7	6YPZ6
	¾ in	5 in	5DLG3	5DLG2
	¾ in	6 in	5DLG5	5DLG4
	¾ in	7 in	5DLG7	5DLG6
	¾ in	8 in	5DLG9	5DLG8

BAND-IT®

Preformed Junior Clamps

Small diameter and smooth I.D. allows superior sealing. Can be installed with Tool 2LNP7, sold separately on page 2536.

2LPH5

W (in.)	Min. Clamp Dia. (in.)	Max. Clamp Dia. (in.)	Thickness (in.)	Pkg. Qty.	201 STAINLESS STEEL Item No.	GALVANIZED CARBON STEEL Item No.
¼ in	½ in	13⁄16 in	0.02 in	50	5DLH5	—
	½ in	1 in	0.02 in	50	5DLH6	—
⅜ in	9⁄16 in	13⁄16 in	0.025 in	24	2LPG8	2LPH9
	9⁄16 in	1⅜ in	0.025 in	24	2LPG9	2LPJ1
½ in	¾ in	1 in	0.03 in	24	5DLH1	5DLH7
	¾ in	1¼ in	0.03 in	24	5DLH2	5DLH8
⅝ in	1 in	1½ in	0.03 in	24	5DLH3	5DLH9
	1 in	2 in	0.03 in	24	5DLH4	5DLJ0
	1 in	2¼ in	0.03 in	24	6YRA0	6YRA3
	1¼ in	1¾ in	0.03 in	24	2LPH1	2LPJ2
	1¼ in	2½ in	0.03 in	24	2LPH2	2LPJ3
¾ in	1 in	3 in	0.03 in	24	6YRA1	6YRA4
	1 in	4½ in	0.03 in	16	6YRA2	6YRA5
	1¾ in	2¾ in	0.03 in	24	2LPH3	2LPJ4
	1¾ in	3½ in	0.03 in	24	2LPH4	2LPJ5
	1¾ in	4 in	0.03 in	16	2LPH5	2LPJ6
	1¾ in	5 in	0.03 in	16	2LPH6	2LPJ7
	1¾ in	6 in	0.03 in	16	2LPH7	2LPJ8
	1¾ in	7 in	0.03 in	16	2LPH8	2LPJ9

4E600

4E571

10N204

W (in.)	Nom. Size (in.)	Closed - Open (in.)	Item No.
2-Ear Hose Clamps - Stainless Steel			
0.236 in	1/4 in	0.197-0.276	**4E583**
0.276 in	5/16 in	0.276-0.354	**3DUP3**
	3/8 in	0.319-0.433	**4E585**
	1/2 in	0.425-0.512	**4E586**
0.295 in	9/16 in	0.492-0.591	**4E587**
0.315 in	19/32 in	0.551-0.669	**3DUP4**
	5/8 in	0.591-0.709	**4E588**
0.335 in	3/4 in	0.638-0.787	**4E589**
0.354 in	7/8 in	0.752-0.906	**4E590**
0.394 in	13/16 in	0.709-0.866	**3DUP5**
	15/16 in	0.831-0.984	**3DUP6**
	1 in	0.886-1.063	**4E591**
	1 1/16 in	0.945-1.102	**3DUP7**
	1 3/16 in	1.035-1.220	**4E592**
2-Ear Hose Clamps - Zinc-Plated			
0.138 in	5/32 in	0.122-0.161	**3DUL9**
	11/64 in	0.138-0.177	**3DUN1**
0.197 in	3/16 in	0.134-0.197	**3DUN2**
0.236 in	1/4 in	0.197-0.276	**4E595**
0.276 in	5/16 in	0.276-0.354	**4E596**
	3/8 in	0.319-0.433	**4E597**
	1/2 in	0.425-0.512	**4E598**
0.295 in	9/16 in	0.492-0.591	**4E599**
0.315 in	19/32 in	0.551-0.669	**3DUN3**
	5/8 in	0.591-0.709	**4E600**
0.335 in	3/4 in	0.638-0.787	**4E601**
0.354 in	13/16 in	0.709-0.866	**3DUN4**
	7/8 in	0.748 - 0.906	**4E602**
0.394 in	15/16 in	0.831-0.984	**3DUN5**
	1 in	0.886-1.063	**4E603**
	1 1/16 in	0.945-1.102	**3DUN6**
	1 1/8 in	1.035 - 1.220	**4E604**
	1 5/16 in	1.154-1.339	**3DUN7**
	1 7/16 in	1.260-1.457	**3DUN8**
	1 1/2 in	1.378-1.575	**3DUN9**
	1 5/8 in	1.480-1.693	**3DUP1**
	1 3/4 in	1.598-1.811	**3DUP2**
Stepless® Ear Clamps - Stainless Steel			
0.197 in	3/8 in	0.307-0.374	**5EFC5**
	25/64 in	0.327-0.394	**5EFC6**
	13/32 in	0.346 a 0.413	**5EFC7**
	27/64 in	0.362-0.429	**5EFD0**
	7/16 in	0.378-0.445	**5EFC8**
	29/64 in	0.398-0.465	**5EFC9**
0.276 in	15/32 in	0.386-0.484	**3DUP8**
	1/2 in	0.406-0.504	**3DUP9**
	1/2 in	0.425-0.524	**4E571**
	17/32 in	0.445-0.543	**3DUR1**
	35/64 in	0.453-0.551	**4E572**
	9/16 in	0.472-0.571	**4E573**
	19/32 in	0.504-0.602	**3DUR4**
	5/8 in	0.520-0.618	**4E574**
	5/8 in	0.539-0.638	**3DUR6**
	11/16 in	0.571-0.669	**4E575**
	23/32 in	0.602-0.728	**5EFD4**
	7/8 in	0.764-0.890	**5EFD5**
	1 in	0.882-1.008	**5EFD6**
	1 1/8 in	1.000-1.126	**5EFD7**
	1 1/4 in	1.118-1.244	**5EFD8**
Stepless® Screw Clamp			
0.375 in	121/128 in	0.708-0.945	**10N204**
	1 7/64 in	0.866-1.10	**10N205**
	1 27/64 in	1.18-1.42	**10N208**
	1 37/64 in	1.34-1.57	**10N209**
	2 31/64 in	2.52-2.95	**10N212**

Description	Item No.
Welding Hose Repair Kit and Clamp Kits	
Welding Hose Repair Kit	**2PU25**
2-Ear Hose Clamp Kit	**4TX96**
Stepless Ear Clamp Kit	**2PU26**
Jaw Pincers	
Standard Jaw Pincers	**4E607**

4TX96

2PU26

4E607

OETIKER®

Crimp Clamps

2-EAR HOSE CLAMPS

1-pc. design provides positive clamping action and tamperproof seal.

STEPLESS EAR CLAMPS—STAINLESS STEEL

Guarantee a 360° seal using an innovative tongue-in-groove design that leaves no steps, gaps, or unbridged parts on the inner circumference. Spring action lets clamp "breathe" without loosening; no need to retighten.

WELDING HOSE REPAIR KIT

For quick repairs to oxygen/acetylene welding lines. Includes standard jaw pincers; 40 of 9/16" 2-ear clamps; 10 of 1/2" 2-ear clamps; 6 each: 1/4" brass nipples, acetylene B left-hand brass nuts, and oxygen B right-hand brass nuts; 4 each: 9/16" twin clamps and 1/4" hose menders; and 2 each: 3/16" brass nipples and 3/16" brass hose menders.

2-EAR HOSE CLAMP KIT

Plastic case contains standard jaw pincers; 15 each: 5/16", 3/8", 1/2", 9/16", and 5/8" clamps; and 12 each: 3/4", 7/8", 15/16", and 1" clamps.

STEPLESS EAR CLAMP KIT

Plastic case contains standard jaw pincers and 10 each of 1-ear clamp sizes: 1/2", 9/16", 5/8", 23/32", 7/8", 1", 1 1/8", and 1 1/4".

JAW PINCERS

Used to close ear clamps. Made of forged steel.

16P349

BAND-IT®

Stainless Steel Cable Ties

- 0.026" thick
- Nylon 11-coated stainless steel
- Tensile strength: 100 psi

Self-locking, reusable ties can be applied by hand.

Strapping Length	Strapping Width	Item No.
201 Stainless Steel		
100 ft	¾ in	**16P349**
100 ft	1 in	**16P350**
100 ft	1 ¼ in	**16P351**

For Use With	Pkg. Qty.	Item No.
201 Stainless Steel Bulk Buckles		
16P349	25	**16P352**
16P350	25	**16P353**
16P351	25	**16P354**

BAND-IT®

Stainless Steel Banding

Can be installed with Clamping Tools 16P345, 2LNP6, 2LNP8, and 2LNP9, sold separately on page 2536. Must be used with a buckle or clip to form clamp and lock bands. Can be used in single- or double-wrap configurations. Colored bands have a fade-resistant finish.

2LNT2

Strapping Width	Strapping Thickness	Strapping Length	Break Strength	Item No.
200/300 Stainless Steel, Plastic Tote				
½ in	0.02 in	50 ft	850 lb	**5DLF7**
	0.025 in	50 ft	1,000 lb	**2LNR9**
	0.025 in	50 ft	1,000 lb	**2LNR4**
	0.025 in	50 ft	1,000 lb	**2LNR5**
	0.025 in	50 ft	1,000 lb	**2LNR6**
	0.025 in	50 ft	1,000 lb	**2LNR7**
	0.025 in	50 ft	1,000 lb	**2LNR8**
⅝ in	0.02 in	50 ft	1,000 lb	**5DLF6**
¾ in	0.02 in	50 ft	1,275 lb	**5DLF5**
201 Stainless Steel				
¾ in	0.044 in	100 ft	3,300 lb	**16P349**
1 in	0.044 in	100 ft	4,400 lb	**16P350**
1 ¼ in	0.044 in	100 ft	5,500 lb	**16P351**
201 Stainless Steel, Cardboard Carton				
1 ¼ in	0.044 in	50 ft	5,500 lb	**2LNU5**
201 Stainless Steel, Plastic Tote				
⅜ in	0.025 in	50 ft	900 lb	**6YPY7**
½ in	0.03 in	50 ft	1,500 lb	**2LNR3**
⅝ in	0.03 in	50 ft	1,875 lb	**5DLF8**
¾ in	0.03 in	50 ft	2,250 lb	**2LNT1**
	0.03 in	50 ft	2,251 lb	**2LNT2**
304 Stainless Steel, Plastic Tote				
½ in	0.015 in	50 ft	600 lb	**2LNV2**
⅝ in	0.015 in	100 ft	750 lb	**5DLG1**
¾ in	0.015 in	50 ft	900 lb	**2LNV3**
316 Stainless Steel				
⅝ in	0.046 in	82 ½ ft	840 lb	**16P346**
316 Stainless Steel, Plastic Tote				
⅜ in	0.025 in	50 ft	750 lb	**6YPY9**
½ in	0.03 in	50 ft	1,200 lb	**2LNU3**
⅝ in	0.025 in	50 ft	1,500 lb	**6YPZ0**
¾ in	0.03 in	50 ft	1,800 lb	**2LNU4**
Galvanized Carbon Steel, Plastic Tote				
½ in	0.03 in	50 ft	1,125 lb	**2LNT8**
¾ in	0.03 in	50 ft	1,690 lb	**2LNT9**

BAND-IT®

Stainless Steel Ball Lock Ties

- ⁵⁄₁₆"W, 0.010" thick
- 304 stainless steel
- Tensile strength: 300 psi
- Pkg. qty.: 50

Self-locking ties can be applied by hand.

2LPC2

L (in.)	Item No.
7.9 in	**2LPC2**
14.2 in	**2LPC3**
20.4 in	**2LPC4**
26.8 in	**2LPC5**

ValuBanding Clip 6YPY6

Ear-Lokt Buckle 2LNT3

Flared Leg Brack-Its 2LNW1

Bolt Band Retainer 6YRA8

Banding Bracket 6YRA6

BAND-IT®

Clips, Buckles, and Brackets

Allow secure clamping of bands. Use with BAND-IT stainless steel bands to create any size clamp. Can be used in a single- or double-wrap configuration to meet most clamping requirements.

Size	Material	For Use With	Item No.	Pkg. Qty.
ValuBanding Clips				
⅜"	200/300 Stainless Steel	6YPY7, 6YPY9	**6YPY6**	50
½"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNR1**	50
⅝"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9. 5DLF6	**5DLF4**	50
¾"	200/300 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNR2**	50
Strapping Buckles				
Ear-Lokt				
⅜"	201 Stainless Steel	6YPY7, 6YPY9	**6YPY8**	50
	316 Stainless Steel	6YPY7, 6YPY9	**6YPZ1**	50
½"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNT3**	50
	316 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU7**	50
	Galvanized Carbon Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU1**	50
⅝"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9, 5DLF8	**5DLF9**	50
	316 Stainless Steel	5DLF6, 5DLF8, 6YPZ0	**6YPZ2**	50
¾"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNT5**	50
	316 Stainless Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNU8**	50
	Galvanized Carbon Steel	2LNP6, 2LNP8, 2LNP9 and ¾" Banding	**2LNU2**	50
Giant				
1¼"	201 Stainless Steel	2LPC1, 2LNU5 & 1¼" Giant Band	**2LNU6**	10
Scru-Lokt				
½"	302 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ½" Banding	**2LNU9**	10
¾"	201 Stainless Steel	2LNP6, 2LNP8, 2LNP9 & ¾" Banding	**2LNV1**	10
Ultra-Lok®				
¾"	201 Stainless Steel	2LPL9, 2LPN1, 2LPK5 to 2LPK9	**2LPL1**	25
Brack-Its®				
Flared Leg				
½"	200/300 Stainless Steel	½" Bands and ½" Buckles	**2LNW1**	25
Straight Leg				
½"	200/300 Stainless Steel	½" Bands and ½" Buckles	**2LNW2**	25
Flared Leg Bolt				
¾"	200/300 Stainless Steel	½" to ¾" Bands and ½" to ¾" Buckles	**2LNV5**	25
Straight Leg Bolt				
¾"	200/300 Stainless Steel	½" to ¾" Bands and ½" to ¾" Buckles	**2LNV4**	25
Banding Bracket				
4¾"	Aluminum/Galvanized Carbon Steel	2LNR3 to 2LNR9, 2LNT1, 2LNT2, 2LNT8, 2LNT9, 2LNU3, 2LNU4, 2LNU5, 2LNV2, 2LNV3, 5DLF8, 5DLG1, 6YPZ0	**6YRA6**	10
Bolt Band Retainers				
¾"	Aluminum/Galvanized Carbon Steel	2LNR3 to 2LNR9, 2LNT1, 2LNT2, 2LNT8, 2LNT9, 2LNU3, 2LNU4, 2LNV2, 2LNV3, 5DLF8, 5DLG1, 6YPZ0	**6YRA7**	10
1¼"	Aluminum/Galvanized Carbon Steel	2LNT1, 2LNT2, 2LNT9, 2LNU4, 2LNU5, 2LNV3	**6YRA8**	10

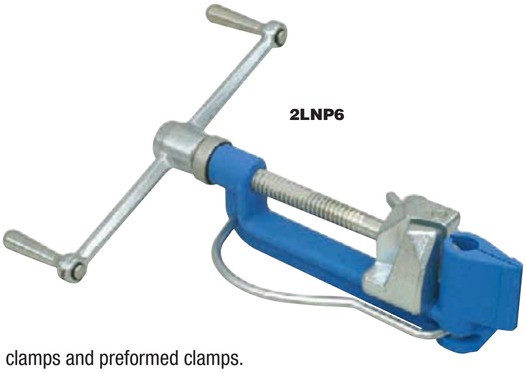
16P340

BAND-IT®

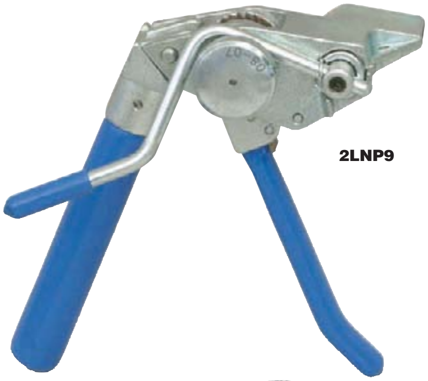
Scru-Seal Adjustable Kits

Use to create strong, adjustable clamps with ⅜" or ½"W stainless steel banding. Suitable for general clamping applications including insulation ducting, signage, and pole mounting of devices.

Includes	Mfr. Model	Item No.	Pkg. Qty.
10 Racks And 10 Housings	GRM211	**16P340**	10
3 Screw-Seals, 5 Individual Packs of 10 ft 200/300SS ⅜ in Banding, and 3 Racks	GRM218	**2LPC9**	1
20 Racks, 20 Screw-Seals, 80 ft 200/300 Stainless Steel ⅜ in Band	GRM210	**2LPC8**	1



2LNP6



2LNP9

BAND-IT®

Banding and Clamping Tools

BAND CLAMP TOOLS

Designed for installation of band clamps and preformed clamps.

BAND TENSIONING RATCHET TOOL

For fast tensioning of band and buckle systems. Suitable for 3/16" to ¾" banding.

CENTER PUNCH TOOLS

Apply tension to the clamp, then cut off the clamp tail after locking.

HOSE CRIMPER ADAPTER KIT

For use with hand and pneumatic tools when installing Band-it® center-punch or junior-style clamps. Suitable for ⅜" to ⅝" banding.

KIT CUTTER BLADE BACK

For use with hand and pneumatic tools when installing BAND-IT® center-punch or junior-style clamps.

5DLJ1

Description	For Use With	Includes	Cap.	Item No.	Pkg. Qty.
Band Clamp Tools					
For Band & Buckle Style Tools	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 to ¾ in	**2LNP6**	1
For Junior Style Clamps	Preformed Junior Clamps	Built-In Cutter	¼ to ¾ in	**2LNP7**	1
	Preformed Junior Clamps	Built-In Cutter	¾ to 1 ¼ in	**2LPC1**	1
High Torque Band & Buckle Tool	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 to ¾ in	**2LNP8**	1
Ratchet Band & Buckle Tool	Preassembled Colored Bands, Ear-Lokt Bands	Built-In Cutter	3/16 to ¾ in	**2LNP9**	1
Banding Tools					
For Band & Buckle Style Tools	Stainless Steel Bands	—	3/16 in to ¾ in Bands	**6YPY5**	1
For Junior Style Clamps	Stainless Steel Bands	—	3/16 in to ⅜ in Band Widths	**6YPZ9**	1
Band Tensioning Ratchet Tool					
For Band & Buckle Style Tools	—	—	—	**16P345**	1
Cable Tie Lock Adjustment Tool					
For Junior Style Clamps	Zip Tie Bands	Built-In Cutter	⅜ in Wide Ties	**5DLJ1**	1
Center Punch Tools					
For Center Punch Clamps	Center Punch Bands	—	⅜, ⅝ in	**2LPG7**	1
	Center Punch Bands	Adapter for ⅜ in Band	⅝ in	**2LPK4**	1
Heavy Duty Tool Adapter					
For Junior Style Clamp Tool	2LNP6	—	—	**5DLH0**	1
Hose Crimper Adapter Kit					
For Junior Style Clamp Tool	2LPK4	Adapter	—	**16P343**	1
Kit Cutter Blade Back					
For Junior Style Clamp Tool	2LNP5, 6YPZ8, 5DHL0, 2LPK1, 2LPK2	Universal Cutter Blade,Repair Parts	—	**16P348**	1
Tool Adapter					
For Junior Style Clamp Tool	2LNP6, 2LNP8	—	—	**6YPZ8**	1

SPEEDAIRE®

Stainless Steel-Body Air Cylinders

- Max. operating pressure: 250 psi (17.23 bar)
- Operating temp. range: -10° to 165°F

Can tolerate moisture and many types of lubricants and solvents. For use where magnetic sensing piston is not required. Interchangeable with Bimba, Parker, SMC, Norgren, and other major manufacturers' cylinders.

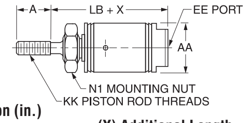
Note: 6"-stroke models also available on Grainger.com.

Bore Dia.	Stroke	Single Acting Nose Mount Item No.	Double Acting Pivot Mount Item No.	Double Acting Nose Mount Item No.	Single Acting Pivot Mount Item No.	Double Acting Double End Mount Item No.
Cylinders						
5⁄16 in	1 in	6CPY9	—	6CPV3	6CPZ8	6CZW9
	2 in	6CPZ0	—	6CPV4	6CPZ9	6CZX0
	3 in	6CPZ1	—	6CPV5	6CRA0	6CZX1
	4 in	—	—	6CPV6	—	6CZX2
7⁄16 in	½ in	5ZEG7	5ZED0	5MMF5	5ZEK8	—
	1 in	5ZEG9	5ZED1	5MMF6	5ZEK9	6CZX3
	1 ½ in	5ZEH0	5ZED2	5MMF7	5ZEL0	—
	2 in	5ZEH1	5ZED3	5MMF8	5ZEL1	6CZX4
	3 in	5ZEH2	5ZED4	5MMF9	5ZEL2	6CZX5
	4 in	5ZEH3	5ZED5	5MMG0	5ZEL3	6CZX6
	5 in	5ZEH4	5ZED6	5MMG1	5ZEL4	6CZX7
9⁄16 in	½ in	5ZEH6	—	5MME8	5ZEL5	5MMA8
	1 in	5ZEH7	6CPX7	5MME9	5ZEL6	5MMA9
	1 ½ in	5ZEH8	—	5MMF0	5ZEL7	5MMC0
	2 in	5ZEH9	6CPX8	5MMF1	5ZEL8	5MMC1
	3 in	5ZEJ0	6CPX9	5MMF2	5ZEL9	5MMC2
	4 in	5ZEJ1	6CPY0	5MMF3	5ZEN0	5MMC3
	5 in	5ZEJ2	6CPY1	5MMF4	—	6CZX9
¾ in	1 in	5ZEJ3	5ZED7	5MMG3	5ZEN1	5MMC4
	2 in	5ZEJ4	5ZED8	5MMG4	5ZEN2	5MMC5
	3 in	5ZEJ5	5ZED9	5MMG5	5ZEN3	5MMC6
	4 in	—	5ZEE0	5MMG6	—	5MMC7
	5 in	—	5ZEE1	5MMG7	—	5MMC8
⅞ in	1 in	6CPZ2	—	6CPV8	6CRA1	6CZY1
	2 in	6CPZ3	—	6CPV9	6CRA2	6CZY2
	3 in	6CPZ4	—	6CPW0	6CRA3	6CZY3
	4 in	—	—	6CPW1	—	6CZY4
	5 in	—	—	6CPW2	—	6CZY5
1 1⁄16 in	1 in	5ZEJ6	5ZEE3	5MMG9	5ZEN4	5MMD0
	2 in	5ZEJ7	5ZEE4	5MMH0	5ZEN5	5MMD1
	3 in	5ZEJ8	5ZEE5	5MMH1	5ZEN6	5MMD2
	4 in	—	5ZEE6	5MMH2	—	5MMD3
	5 in	—	5ZEE7	5MMH3	—	5MMD4
1¼ in	1 in	5ZEJ9	5ZEE9	5MMH5	6CRA4	6CZY7
	2 in	5ZEK0	5ZEF0	5ZDZ7	6CRA5	6CZY8
	3 in	5ZEK1	5ZEF1	5ZDZ8	6CRA6	6CZY9
	4 in	—	5ZEF2	5ZDZ9	—	6CZZ0
	5 in	5ZEA0	5ZEF3	—	—	6CZZ1
1½ in	1 in	5ZEK2	5ZEF5	5ZEA2	5ZEN7	5MMD6
	2 in	5ZEK3	5ZEF6	5ZEA3	5ZEN8	5MMD7
	3 in	5ZEK4	5ZEF7	5ZEA4	5ZEN9	5MMD8
	4 in	—	5ZEF8	5ZEA5	—	5MMD9
	5 in	—	5ZEF9	5ZEA6	—	5MME0
1¾ in	1 in	6CPZ5	—	6CPW4	6CRA7	6CZZ3
	2 in	6CPZ6	—	6CPW5	6CRA8	6CZZ4
	3 in	6CPZ7	—	6CPW6	6CRA9	6CZZ5
	4 in	—	—	6CPW7	—	6CZZ6
	5 in	—	—	6CPW8	—	6CZZ7
2 in	1 in	5ZEK5	5ZEG1	5ZEA8	—	6CZZ9
	2 in	5ZEK6	5ZEG2	5ZEA9	—	6DAA0
	3 in	5ZEK7	5ZEG3	5ZEC0	—	6DAA1
	4 in	—	5ZEG4	5ZEC1	—	6DAA2
	5 in	6CRC1	5ZEG5	5ZEC2	—	6DAA3
2½ in	1 in	—	—	5ZEC4	—	5MME2
	2 in	—	—	5ZEC5	—	5MME3
	3 in	—	—	5ZEC6	—	5MME4
	4 in	—	—	5ZEC7	—	6CPY6
	5 in	—	—	5ZEC8	—	6CPY7
3 in	1 in	—	—	6CPX0	—	6DAA5
	2 in	—	—	6CPX1	—	6DAA6
	3 in	—	—	6CPX2	—	6DAA7
	4 in	—	—	6CPX3	—	6DAA8
	5 in	—	—	6CPX4	—	6DAA9

Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Foot Bracket	7⁄16 in Bore, 9⁄16 in Bore	5VKW6
	¾ in Bore	5VKW5
	1 1⁄16 in Bore, ¾ in Bore, ⅞ in Bore	5VKV8
	1½ in Bore, 1¼ in Bore	5VKW1
	2 in Bore	5VKV5
Pivot Bracket	7⁄16 in Bore	5VKW7
	7⁄16 in, 9⁄16 in	5VKW9
	1 1⁄16 in Bore, ¾ in Bore, ⅞ in Bore	5VKV9
	1½ in Bore	5VKW3
	2 in, 2½ in	5VKV6
Rod Clevis	7⁄16 in Bore, 9⁄16 in Bore	5VKW8
	¾ in Bore, ⅞ in Bore	5VKW0
	1 1⁄16 in Bore	5VKW2
	1½ in Bore, 1¼ in Bore	5VKW4
	1¾ in Bore, 2 in Bore, 2½ in Bore	5VKV7

SPECIFICATION TABLES
Please match the tables below with the corresponding columns in the primary table to the left

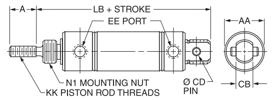
Single-Acting Nose Mount



Dimension (in.)

Bore	A	AA	EE	KK	N1	LB	(X) Additional Length when Single Acting
Single-Acting Nose Mount							
5⁄16"	0.38	0.36	10-32	#5-40 UNC	¼-28	1.12	0.75" per ½" Stroke
7⁄16"	0.5	0.5	10-32	#10-32 UNF	⅜-24	1.31	0.94" per ½" Stroke
9⁄16"	0.5	0.62	10-32	#10-32 UNF	7⁄16-20	1.53	1.62" per 1" Stroke
¾"	0.5	0.81	⅛ NPTF	¼-28 UNF	½-20	1.5	1.69" per 1" Stroke
⅞"	0.5	0.93	⅛ NPTF	¼-28 UNF	⅝-18	1.84	1.56" per 1" Stroke
1 1⁄16"	0.5	1.12	⅛ NPTF	5⁄16-24 UNF	⅝-18	2.06	1.56" per 1" Stroke
1¼"	0.75	1.34	⅛ NPTF	7⁄16-20 UNF	¾-16	2.66	1.81" per 1" Stroke
1½"	0.75	1.56	⅛ NPTF	7⁄16-20 UNF	¾-16	2.44	1.69" per 1" Stroke
1¾"	0.88	1.84	¼ NPTF	½-20 UNF	1-14	2.97	2.0" per 1" Stroke
2"	0.88	2.08	¼ NPTF	½-20 UNF	1¼-12	—	5.41" For 1" Stroke 7.41" For 2" Stroke 8.66" For 3" Stroke

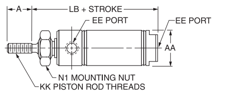
Double-Acting Pivot Mount



Dimension (in.)

Bore	A	EE	KK	LB	N1	AA	CB	CD
Double-Acting Pivot Mount								
7/16"	0.5	10-32	#10-32 UNF	2.81	7/16-20	0.74	0.31	0.157
9/16"	0.5	10-32	10-32 UNF	2.75	7/16-20	0.62	0.31	0.157
3/4"	0.5	1/8 NPTF	1/4-28 UNF	4.03	5/8-18	0.86	0.38	0.251
1-1/16"	0.5	1/8 NPTF	5/16-24 UNF	4.12	5/8-18	1.12	0.38	0.251
1-1/4"	0.75	1/8 NPTF	7/16-20 UNF	5.12	3/4-16	1.34	0.5	0.251
1-1/2"	0.75	1/8 NPTF	7/16-20 UNF	4.75	3/4-16	1.56	0.62	0.376
2"	0.88	1/4 NPTF	1/2-20 UNF	6.06	1-1/4-12	2.08	0.75	0.376

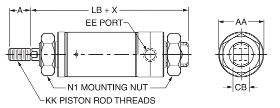
Double-Acting Nose Mount



Dimension (in.)

Bore	A	AA	EE	KK	LB	N1
Double-Acting Nose Mount						
5/16"	0.38	0.5	10-32	#5-40 UNC	1.64	3/8-24
7/16"	0.5	0.74	10-32	#10-32 UNF	2.12	7/16-20
9/16"	0.5	0.62	10-32	#10-32 UNF	2.28	7/16-20
3/4"	0.5	0.86	1/8 NPTF	1/4-28 UNF	2.97	5/8-18
7/8"	0.5	0.93	1/8 NPTF	1/4-28 UNF	2.94	5/8-18
1-1/16"	0.5	1.12	1/8 NPTF	5/16-24 UNF	3.25	5/8-18
1-1/4"	0.75	1.34	1/8 NPTF	7/16-20 UNF	4	3/4-16
1-1/2"	0.75	1.56	1/8 NPTF	7/16-20 UNF	3.69	3/4-16
1-3/4"	0.88	1.84	1/4 NPTF	1/2-20 UNF	4.69	1-14
2"	0.88	2.08	1/4 NPTF	1/2-20 UNF	4.69	1-1/4-12
2-1/2"	0.88	2.62	1/4 NPTF	1/2-20 UNF	4.69	1-3/8-12
3"	1.25	3.16	3/8 NPTF	5/8-18 UNF	5.25	1-1/2-12

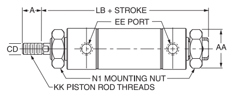
Single-Acting Pivot Mount



Dimension (in.)

Bore	A	AA	CB	EE	KK	N1	LB	(X) Additional Length when Single Acting
Single-Acting Pivot Mount								
5/16"	0.38	0.39	0.25	10-32	#5-40 UNC	3/8-24	1.68	0.75" per 1" Stroke
7/16"	0.5	0.74	0.31	10-32	#10-32 UNF	3/8-24	2	0.94" per 1" Stroke
9/16"	0.5	0.62	0.31	10-32	#10-32 UNF	7/16-20	2	1.62" per 1" Stroke
3/4"	0.5	0.86	0.38	1/8 NPTF	1/4-28 UNF	1/2-20	2.56	1.69" per 1" Stroke
7/8"	0.5	0.93	0.38	1/8 NPTF	1/4-28 UNF	5/8-18	2.75	1.56" per 1" Stroke
1-1/16"	0.5	1.12	0.38	1/8 NPTF	5/16-24 UNF	5/8-18	2.94	1.56" per 1" Stroke
1-1/4"	0.75	1.34	0.5	1/8 NPTF	7/16-20 UNF	3/4-16	3.78	1.81" per 1" Stroke
1-1/2"	0.75	1.56	0.62	1/8 NPTF	7/16-20 UNF	3/4-16	3.5	1.81" per 1" Stroke
1-3/4"	0.88	1.84	0.62	1/4 NPTF	1/2-20 UNF	1-14	4.53	2.00" per 1" Stroke

Double-Acting Double End Mount



Dimension (in.)

Bore	A	AA	EE	KK	LB	N1
Double-Acting Double End						
5/16"	0.38	0.5	10-32	#5-40 UNC	2.19	3/8-24
7/16"	0.5	0.74	10-32	#10-32 UNF	2.81	7/16-20
9/16"	0.5	0.62	10-32	#10-32 UNF	2.75	7/16-20
3/4"	0.5	0.86	1/8 NPTF	1/4-28 UNF	4.03	5/8-18
7/8"	0.5	0.93	1/8 NPTF	1/4-28 UNF	3.84	5/8-18
1-1/16"	0.5	1.12	1/8 NPTF	5/16-24 UNF	4.12	5/8-18
1-1/4"	0.75	1.34	1/8 NPTF	7/16-20 UNF	5.12	3/4-16
1-1/2"	0.75	1.56	1/8 NPTF	7/16-20 UNF	4.75	3/4-16
1-3/4"	0.88	1.84	1/4 NPTF	1/2-20 UNF	6.25	1-14
2"	0.88	2.08	1/4 NPTF	1/2-20 UNF	6.06	1-1/4-12
2-1/2"	0.88	2.62	1/4 NPTF	1/2-20 UNF	6.06	1-3/8-12
3"	1.25	3.16	3/8 NPTF	5/8-18 UNF	7.12	1-1/2-12

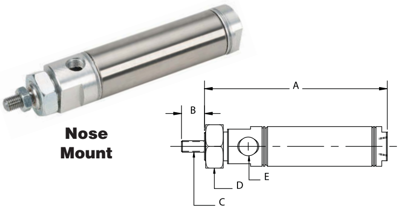
Find more Air Cylinders at Grainger.com®.

Double-Acting Stainless Steel Body Air Cylinders

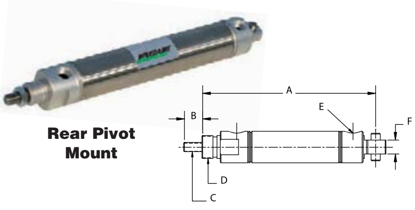
SPEEDAIRE®

- Operating pressure range: 8 to 250 psi
- Operating temp. range: 40° to 140°F
- Include magnetic piston for use with autoswitches

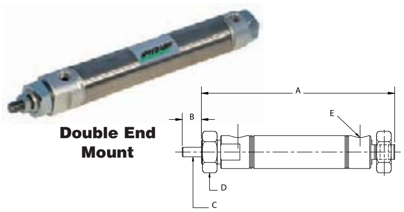
Permanently lubricated, nonrepairable cylinders are dimensionally interchangeable with a variety of manufacturers' cylinders. Stainless steel tube and chrome-plated carbon steel piston rod improve corrosion resistance. Piston magnet allows autoswitches to sense stroke piston. NPT ports. Additional sizes, switches, and brackets available on Grainger.com®.



Nose Mount



Rear Pivot Mount



Double End Mount

Bore Dia.	A (+ Stroke)	B	C	D	E
Double-Acting Nose Mount					
7/16	2.36"	0.5	10-32	7/16-20	10-32
9/16	2.19"	0.5	10-32	7/16-20	10-32
¾	2.97"	0.5	¼-28	⅝-18	⅛ NPT
⅞	2.69"	0.5	¼-28	⅝-18	⅛ NPT
1 1/16	3.25"	0.5	5/16-24	⅝-18	⅛ NPT
1¼	3.75"	0.75	7/16-20	¾-16	⅛ NPT
1½	3.69"	0.75	7/16-20	¾-16	⅛ NPT
2	4.69"	0.88	½-20	1¼-12	¼ NPT

Bore Dia.	A (+ Stroke)	B	C	D	E	F
Double-Acting Rear Pivot Mount						
7/16	2.81"	0.5	10-32	7/16-20	10-32	0.31
9/16	2.56"	0.5	10-32	7/16-20	10-32	0.31
3/4	3.75"	0.5	1/4-28	5/8-18	1/8" NPT	0.38
7/8	3.31"	0.5	1/4-28	5/8-18	1/8" NPT	0.38
1-1/16	3.84"	0.5	5/16-24	5/8-18	1/8" NPT	0.38
1-1/4	4.47"	0.75	7/16-20	3/4-16	1/8" NPT	0.5
1-1/2	4.38"	0.75	7/16-20	3/4-16	1/8" NPT	0.62

Bore Dia.	A (+ Stroke)	B	C	D	E
Double-Acting Double End Mount					
7/16	3.06"	0.5	10-32	7/16-20	10-32
9/16	2.75"	0.5	10-32	7/16-20	10-32
3/4	4.03"	0.5	1/4-28	5/8-18	1/8 NPT
7/8	3.59"	0.5	1/4-28	5/8-18	1/8"NPT
1-1/16	4.12"	0.5	5/16-24	5/8-18	1/8 NPT
1-1/4	4.87"	0.75	7/16-20	3/4-16	1/8 NPT
1-1/2	4.5"	0.75	7/16-20	3/4-16	1/8 NPT
2	6.06"	0.88	1/2-20	1-1/4-12	1/4 NPT

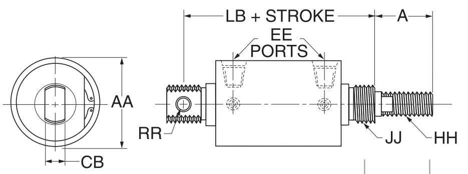
Bore Dia.	Stroke	DOUBLE-ACTING NOSE Item No.	DOUBLE-ACTING REAR PIVOT Item No.	DOUBLE-ACTING DOUBLE END Item No.
Cylinders				
1 1/16 in	½ in	**5TGA2**	**5TGP6**	**5THD5**
	1 in	**5TGA3**	**5TGP7**	**5THD6**
	2 in	**5TGA4**	**5TGP8**	**5THD7**
	3 in	**5TGA5**	**5TGP9**	**5THD8**
	4 in	**5TGA6**	**5TGR0**	**5THD9**
	5 in	**5TGA7**	**5TGR1**	**5THE0**
	6 in	**5TGA8**	**5TGR2**	**5THE1**
	7 in	**5TGA9**	**5TGR3**	**5THE2**
	8 in	**5TGC0**	**5TGR4**	**5THE3**
	9 in	**5TGC1**	**5TGR5**	**5THE4**
	10 in	**5TGC2**	**5TGR6**	**5THE5**
	12 in	**5TGC3**	**5TGR7**	**5THE6**
Cylinders (Cont.)				
1 ¼ in	½ in	**5TGC4**	**5TGR8**	**5THE7**
	1 in	**5TGC5**	**5TGR9**	**5THE8**
	2 in	**5TGC6**	**5TGT0**	**5THE9**
	3 in	**5TGC7**	**5TGT1**	**5THF0**
	4 in	**5TGC8**	**5TGT2**	**5THF1**
	5 in	**5TGC9**	**5TGT3**	**5THF2**
	6 in	**5TGD0**	**5TGT4**	**5THF3**
	7 in	**5TGD1**	**5TGT5**	**5THF4**
	8 in	**5TGD2**	**5TGT6**	**5THF5**
	9 in	**5TGD3**	**5TGT7**	**5THF6**
	10 in	**5TGD4**	**5TGT8**	**5THF7**
	12 in	**5TGD5**	**5TGT9**	**5THF8**
Cylinders (Cont.)				
1 ½ in	½ in	**5TGD6**	**5TGU0**	**5THF9**
	1 in	**5TGD7**	**5TGU1**	**5THG0**
	2 in	**5TGD8**	**5TGU2**	**5THG1**
	3 in	**5TGD9**	**5TGU3**	**5THG2**
	4 in	**5TGE0**	**5TGU4**	**5THG3**
	5 in	**5TGE1**	**5TGU5**	**5THG4**
	6 in	**5TGE2**	**5TGU6**	**5THG5**
	7 in	**5TGE3**	**5TGU7**	**5THG6**
	8 in	**5TGE4**	**5TGU8**	**5THG7**
	9 in	**5TGE5**	**5TGU9**	**5THG8**
	10 in	**5TGE6**	**5TGV0**	**5THG9**
	12 in	**5TGE7**	**5TGV1**	**5THH0**

Bore Dia.	Stroke	DOUBLE-ACTING DOUBLE END Item No.	DOUBLE-ACTING NOSE Item No.
Cylinders (Cont.)			
2 in	½ in	**5THH1**	**5TGE8**
	1 in	**5THH2**	**5TGE9**
	2 in	**5THH3**	**5TGF0**
	3 in	**5THH4**	**5TGF1**
	4 in	**5THH5**	**5TGF2**
	5 in	**5THH6**	**5TGF3**
	6 in	**5THH7**	**5TGF4**
	7 in	**5THH8**	**5TGF5**
	8 in	**5THH9**	**5TGF6**
	9 in	**5THJ0**	**5TGF7**
	10 in	**5THJ1**	**5TGF8**
	12 in	**5THJ2**	**5TGF9**

SPEEDAIRE®

Repairable Round-Body Aluminum Air Cylinders

D8463



- Double-acting
- Max. operating pressure: 150 psi (10 bar)
- Operating temp. range: -10° to 165°F

Corrosion- and abrasion-resistant hard anodized aluminum cylinders have a high-strength steel retaining ring that is easily removed for maintenance and repair. Chrome-plated steel rod. Head and caps are sealed with an O-ring static tube seal to prevent leaks. All cylinders come "switch ready".

Bore Dia.	A	LB	EE	RR	JJ	HH	AA	CB
	Dimensions (in.)							
1⅛"	⅞	4⅜	⅛	¼	¾-16	⅜-16	1⅜	⅜
1½"	1¼	5⅜	¼	5/16	1-14	½-13	1¾	½
2"	1¼	5⅜	¼	5/16	1-14	⅝-11	2¼	½
2½"	1½	6⅜	⅜	7/16	1⅜ -12	¾-10	2¾	⅝
3"	1½	6⅜	⅜	7/16	1⅜ -12	¾-10	3¼	⅝
4"	1⅞	8 1/16	½	½	1¾ -12	1-14	4⅜	¾

Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Clevis Bracket	1⅛ in Bore	**5VNY2**
	1½ Bore, 2 in Bore	**5VNY3**
	2½ Bore, 3 in Bore	**5VNY4**
	4 in Bore	**5VNY5**
Cylinder Mounting Nut	1⅛ in Bore	**5VNW9**
	1½ in Bore, 2 in Bore	**5VNX0**
	2½ in Bore, 3 in Bore	**5VNX1**
	4 in Bore	**5VNX2**
Flange Bracket	1⅛ in Bore	**5VNX7**
	1½ Bore, 2 in Bore	**5VNX8**
	2½ in Bore, 3 in Bore	**5VNX9**
	4 in Bore	**5VNY0**
Foot Bracket	1⅛ in Bore	**5VNX3**
	1½ in Bore, 2 in Bore	**5VNX4**
	2½ in Bore, 3 in Bore	**5VNX5**
	4 in Bore	**5VNX6**
Rod Clevis	1⅛ in Bore	**5VNY1**
	1½ in Bore	**5VNW5**
	2 in Bore	**5VNW6**
	2½ and 3 in Bore	**5VNW7**
	4 in Bore	**5VNW8**

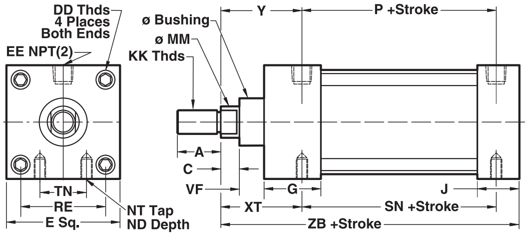
Bore Dia.	Rod Thread Size	►CHOOSE: Stroke	WITHOUT CUSHION Item No.	WITH HEAD AND CAP CUSHION Item No.
Cylinders				
1⅛ in	⅜"-16	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8463**	—
	⅜"-16	3 in, 3 ½ in, 4 in	—	**D8496**
	⅜"-16	5 in, 6 in, 7 in, 8 in	**D8464**	**D8497**
	⅜"-16	9 in, 10 in, 11 in, 12 in	**D8465**	**D8498**
	⅜"-16	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8466**	**D8499**
	⅜"-16	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8467**	**D8501**
1½ in	½"-13	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8468**	—
	½"-13	3 in, 3 ½ in, 4 in	—	**D8502**
	½"-13	5 in, 6 in, 7 in, 8 in	**D8469**	**D8503**
	½"-13	9 in, 10 in, 11 in, 12 in	**D8471**	**D8504**
	½"-13	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8472**	**D8505**
	½"-13	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8473**	**D8506**
2 in	⅝"-11	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8474**	—
	⅝"-11	3 in, 3 ½ in, 4 in	—	**D8507**
	⅝"-11	5 in, 6 in, 7 in, 8 in	**D8475**	**D8508**
	⅝"-11	9 in, 10 in, 11 in, 12 in	**D8476**	**D8509**
	⅝"-11	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8477**	**D8511**
	⅝"-11	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8478**	**D8512**
2½ in	¾"-10	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8479**	—
	¾"-10	3 in, 3 ½ in, 4 in	—	**D8513**
	¾"-10	5 in, 6 in, 7 in, 8 in	**D8481**	**D8514**
	¾"-10	9 in, 10 in, 11 in, 12 in	**D8482**	**D8515**
	¾"-10	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8483**	**D8516**
	¾"-10	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8484**	**D8517**
3 in	¾"-10	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8485**	—
	¾"-10	3 in, 3 ½ in, 4 in	—	**D8518**
	¾"-10	5 in, 6 in, 7 in, 8 in	**D8486**	**D8519**
	¾"-10	9 in, 10 in, 11 in, 12 in	**D8487**	**D8521**
	¾"-10	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8488**	**D8522**
	¾"-10	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8489**	**D8523**
4 in	1"-14	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in	**D8491**	—
	1"-14	3 in, 3 ½ in, 4 in	—	**D8524**
	1"-14	5 in, 6 in, 7 in, 8 in	**D8492**	**D8525**
	1"-14	9 in, 10 in, 11 in, 12 in	**D8493**	**D8526**
	1"-14	13 in, 14 in, 15 in, 16 in, 17 in, 18 in	**D8494**	**D8527**
	1"-14	19 in, 20 in, 21 in, 22 in, 23 in, 24 in	**D8495**	**D8528**

SPEEDAIRE®

NFPA Square-Head Tie Rod Aluminum Cylinders

- Max. operating pressure: 250 psi (1½" to 6" bores)
- Temp. range: -20° to 200°F
- Include magnetic piston

Switch-ready magnetic piston cylinders have a replaceable rod gland and fully adjustable cushion to allow a full range of NFPA MS4 interchangeable mounting configurations. 4 internal-threaded sleeve nuts recessed in the head and 4 tapped holes in the cap permit direct mounting. Additional NFPA cylinders available on Grainger.com.



1½ to 6" Bore Dia.

Bore Dia.	A	C	E	J	G	P	DD	EE	KK	MM	NT	RE	SN	TN	VF	XT	ZB
1½ to 6" Bore Diameter																	
1½	0.75	0.375	2	1	1.5	2.34	¼ - 28	¼ NPT	½ - 20	0.625	¼ - 20	1.428	2.25	0.625	0.625	1.938	4.625
2	0.75	0.375	2.5	1	1.5	2.34	5⁄16 - 24	¼ NPT	½ - 20	0.625	5⁄16 - 18	1.838	2.25	0.875	0.625	1.938	4.625
2½	0.75	0.375	3	1	1.5	2.47	5⁄16 - 24	¼ NPT	½ - 20	0.625	⅜ - 16	2.192	2.375	1.25	0.625	1.938	4.75
3¼	1.125	0.5	3.75	1.25	1.75	2.69	7⁄16 - 20	⅜ NPT	¾ - 16	1	½ - 13	2.937	2.625	1.5	0.875	2.438	5.625
4	1.125	0.5	4.5	1.25	1.75	2.69	7⁄16 - 20	⅜ NPT	¾ - 16	1	½ - 13	3.562	2.625	2.063	0.875	2.438	5.625
6	1.625	0.625	6.5	1.5	2	3.125	½ - 20	½ NPT	1 - 14	1.375	¾ - 10	4.879	3.125	3.25	1	2.813	6.625

Bore Dia.	▶CHOOSE: Stroke	Item No.
Non-Cushioned, Magnetic Piston		
1½ in	½", 1 ½", 1", 2 ½", 2", 3 ½", 3", 4 ½", 4", 5 ½", 5"	**D8124**
2 in	½", 1 ½", 1", 2 ½", 2", 3 ½", 3", 4 ½", 4", 5 ½", 5"	**D8132**
2½ in	½", 1 ½", 1", 2 ½", 2", 3 ½", 3", 4 ½", 4", 5 ½", 5"	**D8139**
3¼ in	½", 1", 1 ½", 2 ½", 2", 3", 3 ½", 4 ½", 4", 5", 5 ½"	**D8147**
4 in	½", 1", 1 ½", 2 ½", 2", 3", 3 ½", 4 ½", 4", 5", 5 ½"	**D8155**
6 in	½", 1", 1 ½", 2", 2 ½", 3", 3 ½", 4", 4 ½", 5", 5 ½", 6"	**D8162**
Adjustable Cushion, Magnetic Piston		
1½ in	6", 6 ½", 7", 7 ½", 8 ½", 8", 9", 9 ½"	**D8125**
	10 ½", 10", 11", 11 ½", 12", 12 ½", 13", 13 ½", 14", 14 ½"	**D8126**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8127**
	20", 20 ½", 21", 21 ½", 22", 22 ½", 23", 23 ½", 24", 24 ½", 25", 25 ½"	**D8128**
	26", 26 ½", 27", 27 ½", 28", 28 ½", 29", 29 ½", 30", 30 ½"	**D8129**
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8131**
2 in	6", 6 ½", 7", 7 ½", 8 ½", 8", 9", 9 ½"	**D8133**
	10 ½", 10", 11", 11 ½", 12", 12 ½", 13", 13 ½", 14", 14 ½"	**D8134**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8135**
	20", 20 ½", 21", 21 ½", 22", 22 ½", 23", 23 ½", 24", 24 ½", 25", 25 ½"	**D8136**
	26", 26 ½", 27", 27 ½", 28", 28 ½", 29", 29 ½", 30", 30 ½"	**D8137**
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8138**
2½ in	6", 6 ½", 7", 7 ½", 8 ½", 8", 9", 9 ½"	**D8141**
	10 ½", 10", 11", 11 ½", 12", 12 ½", 13", 13 ½", 14", 14 ½"	**D8142**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8143**
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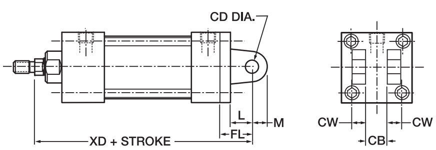
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8146**
3¼ in	6", 6 ½", 7", 7 ½", 8 ½", 8", 9", 9 ½"	**D8148**
	10 ½", 10", 11", 11 ½", 12", 12 ½", 13", 13 ½", 14", 14 ½"	**D8149**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8151**
	20", 20 ½", 21", 21 ½", 22", 22 ½", 23", 23 ½", 24", 24 ½", 25", 25 ½"	**D8152**
	26", 26 ½", 27", 27 ½", 28", 28 ½", 29", 29 ½", 30", 30 ½"	**D8153**
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8154**
4 in	6", 6 ½", 7", 7 ½", 8 ½", 9", 9 ½"	**D8156**
	10 ½", 11", 11 ½", 12 ½", 13", 13 ½", 14", 14 ½"	**G8249**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8157**
	20", 21", 22", 22 ½", 23", 23 ½", 24", 24 ½", 25", 25 ½"	**D8158**
	26", 26 ½", 27", 27 ½", 28", 28 ½", 29", 29 ½", 30", 30 ½"	**D8159**
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8161**
6 in	6", 6 ½", 7", 7 ½", 8", 8 ½", 9", 9 ½"	**D8163**
	10", 10 ½", 11", 11 ½", 12", 12 ½", 13", 13 ½", 14", 14 ½"	**D8164**
	15", 15 ½", 16", 16 ½", 17", 17 ½", 18", 18 ½", 19", 19 ½"	**D8165**
	20", 20 ½", 21", 21 ½", 22", 22 ½", 23", 23 ½", 24", 24 ½", 25", 25 ½"	**D8166**
	26", 26 ½", 27", 27 ½", 28", 28 ½", 29", 29 ½", 30", 30 ½"	**D8167**
	31", 31 ½", 32", 32 ½", 33", 33 ½", 34", 34 ½", 35", 35 ½", 36"	**D8168**

SPEEDAIRE®

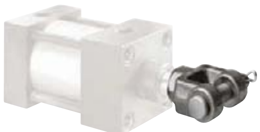
Mounting Hardware for NFPA Square-Head Tie-Rod Aluminum Cylinders

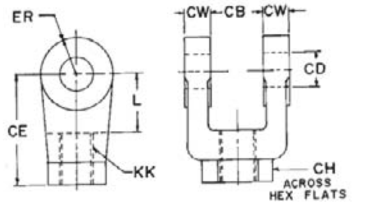
Bore Dia. (in.)	CB	CD	CW	FL	L	M	Item No.
Cast-Iron Clevis Mounting Kits							
1 ½ in	0.75 in	0.5 in	½ in	1.125 in	0.75 in	0.625 in	**6X471**
2 in	0.75 in	0.5 in	½ in	1.125 in	0.75 in	0.625 in	**6X473**
2 ½ in	0.75 in	0.5 in	½ in	1.125 in	0.75 in	0.625 in	**6X475**
3 ¼ in	1.25 in	0.75 in	⅝ in	1.875 in	1.25 in	0.875 in	**6X479**
4 in	1.25 in	0.75 in	⅝ in	1.875 in	1.25 in	0.875 in	**6X481**
6 in	1.5 in	1 in	¾ in	2.25 in	1.5 in	1.125 in	**1A017**



Rear Cast-Iron Clevis Mounting Kit

Bore Dia. (in.)	CB	CD	CE	CH	CW	ER	KK	L	Item No.
Cast-Iron Rod Clevis									
1 ½ to 2 ½	0.75 in	0.5 in	1 ½ in	1 in	½ in	½ in	½-20	0.75 in	**6X476**
3 ¼ to 4	1.25 in	0.75 in	2 ⅜ in	1 ¼ in	⅝ in	¾ in	¾-16	1.25 in	**6X482**
6 in	1.5 in	1 in	3 ⅛ in	1 ½ in	¾ in	1 in	1-14	1.5 in	**1A018**





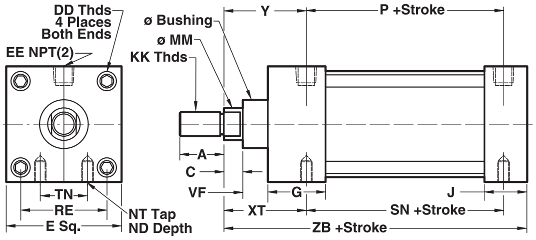
Cast-Iron Rod Clevis

Thread Size (in.)	Overall Length (in.)	Overall Dia. (in.)	Max. Operating Force (lb.)	Item No.
Self-Aligning Couplers				
½-20	2.75 in	1 ¼ in	14,000 lb	**1A313**
¾-16	3.4375 in	1 ¾ in	34,000 lb	**1A314**
1-14	4.5625 in	2 ½ in	37,000 lb	**1A315**

Self-Aligning Coupler

SPEEDAIRE®

NFPA Square-Head Tie Rod Steel Cylinders



- Max. operating pressure: 250 psi
- Temp. range: -20° to 200°F

These cylinders offer full range of NFPA interchangeable mounting configurations. Cushioned cylinders have a fully adjustable cushion.

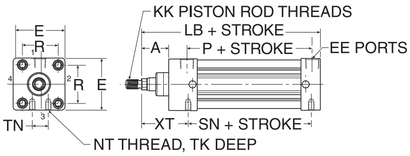
Bore Dia.	A	C	E	G	J	P	Y	DD	EE	KK	MM	NT	RE	SN	TN	VF	XT	ZB
	Dimension (in.)																	
1½	0.750	0.375	2.000	1.500	1.000	2.340	1.875	¼-28	¼ NPT	½-20	0.625	¼-20	1.428	2.250	0.625	0.625	1.938	4.625
2	0.750	0.375	2.500	1.500	1.000	2.340	1.875	5/16-24	¼ NPT	½-20	0.625	5/16-18	1.838	2.250	0.875	0.625	1.938	4.625
2½	0.750	0.375	3.000	1.500	1.000	2.470	1.875	5/16-24	¼ NPT	½-20	0.625	⅜-16	2.192	2.375	1.250	0.625	1.938	4.750
3¼	1.125	0.500	3.750	1.750	1.250	2.690	2.438	7/16-20	⅜ NPT	¾-16	1.000	½-13	2.937*	2.625	1.500	0.875	2.438	5.625
4	1.125	0.500	4.500	1.750	1.250	2.690	2.438	7/16-20	⅜ NPT	¾-16	1.000	½-13	3.562*	2.625	2.063	0.875	2.438	5.625
6	1.625	0.625	6.500	2.000	1.500	3.125	2.813	½-20	½ NPT	1-14	1.375	¾-10	4.879	3.125	3.250	1.000	2.813	6.625

** Does not meet NFPA mounting dimensions.*

Bore Dia.	▶CHOOSE: Stroke	Item No.
Non-Cushioned		
1½"	1 in, 2 in, 3 in, 4 in, 5 in, 6 in, ½ in, 1 ½ in, 2 ½ in, 3 ½ in, 4 ½ in, 5 ½ in	**D8169**
2"	1 in, 2 in, 3 in, 4 in, 5 in, 6 in, ½ in, 1 ½ in, 2 ½ in, 3 ½ in, 4 ½ in, 5 ½ in	**D8177**
2½"	1 in, 2 in, 3 in, 4 in, 5 in, 6 in, ½ in, 1 ½ in, 2 ½ in, 3 ½ in, 4 ½ in, 5 ½ in	**D8185**
3¼"	2 in, 4 in, 6 in, ½ in, 1 ½ in, 2 ½ in, 3 in, 3 ½ in, 4 ½ in, 5 in, 5 ½ in	**D8193**
4"	2 in, 4 in, 6 in, ½ in, 1 ½ in, 2 ½ in, 3 in, 3 ½ in, 4 ½ in, 5 in, 5 ½ in	**D8201**
Adjustable Cushion		
1½"	8 in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8171**
	10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8172**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8173**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8174**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8175**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8176**
2"	8 in, 10 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8178**
	10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8179**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8181**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8182**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8183**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8184**
2½"	8 in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8186**
	10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8187**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8188**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8189**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8191**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8192**
3¼"	8 in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8194**
	10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8195**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8196**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8197**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8198**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8199**
4"	8 in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8202**
	10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8203**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8204**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8205**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8206**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8207**
6"	4 in, ½ in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 ½ in, 5 in, 5 ½ in	**D8208**
	8 in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 ½ in, 9 in, 9 ½ in	**D8209**
	10 in, 12 in, 10 ½ in, 11 in, 11 ½ in, 12 ½ in, 13 in, 13 ½ in, 14 in, 14 ½ in	**D8211**
	15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in, 19 in, 19 ½ in	**D8212**
	20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in, 24 ½ in, 25 in, 25 ½ in	**D8213**
	26 in, 26 ½ in, 27 in, 27 ½ in, 28 in, 28 ½ in, 29 in, 29 ½ in, 30 in, 30 ½ in	**D8214**
	31 in, 31 ½ in, 32 in, 32 ½ in, 33 in, 33 ½ in, 34 in, 34 ½ in, 35 in, 35 ½ in, 36 in	**D8215**

SPEEDAIRE®

NFPA Extruded Aluminum Air Cylinders



- Max. operating pressure: 250 psi
- Operating temp. range: -10° to 165°F
- Switch ready
- Cushions: standard and adjustable at both ends on 7" and larger stroke lengths

Feature industry-standard footprint, which allows interchangeability with other NFPA-style cylinders of either tie-rod or extruded construction. Advantages include clean appearance and fewer spaces for dirt and debris to collect.

Bore Dia.	A	E	P	R	EE	KK	LB	NT	TK	TN	SN	XT
	Dimension (in.)											
1½"	1.000	2.000	2.313	1.430	⅜	½-20	4.625	¼-20	0.375	0.625	2.250	1.938
2"	1.000	2.500	2.313	1.840	⅜	½-20	4.625	5/16-18	0.438	0.875	2.250	1.938
2½"	1.000	3.000	2.375	2.190	⅜	½-20	4.750	⅜-16	0.625	1.250	2.375	1.938
3¼"	1.375	3.750	2.625	2.760	½	¾-16	5.625	½-13	0.750	1.500	2.625	2.438
4"	1.375	4.500	2.625	3.320	½	¾-16	5.625	½-13	0.750	2.063	2.625	2.438
5"	1.375	5.500	2.875	4.100	½	¾-16	5.875	⅝-11	0.938	2.688	2.875	2.438

Bore Dia.	▶CHOOSE: Stroke	Item No.
Cylinders		
1 ½ in	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8529**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8531**
	9 in, 9 ½ in, 10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 13 ½ in	**D8532**
2 in	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8533**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8534**
	9 in, 9 ½ in, 10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in	**D8535**
2 ½ in	1 in, 1 ½ in, 2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8536**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8537**
	9 in, 9 ½ in, 10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in	**D8538**
3 ¼ in	2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8539**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8541**
	9 in, 9 ½ in, 10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in	**D8542**
	13 in, 13 ½ in, 14 in, 14 ½ in, 15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in	**D8543**
	19 in, 19 ½ in, 20 in, 22 in, 24 in	**D8544**
	30 in, 36 in	**D8545**
4 in	2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8546**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8547**
	9 in, 9 ½ in, 10 in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in	**D8548**
	13 in, 13 ½ in, 14 in, 14 ½ in, 15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in	**D8549**
	19 in, 19 ½ in, 20 in, 20 ½ in, 21 in, 21 ½ in, 22 in, 22 ½ in, 23 in, 23 ½ in, 24 in	**D8551**
	30 in, 36 in	**D8552**
5 in	2 in, 2 ½ in, 3 in, 3 ½ in, 4 in, 4 ½ in	**D8553**
	5 in, 5 ½ in, 6 in, 6 ½ in, 7 in, 7 ½ in, 8 in, 8 ½ in	**D8554**
	9 in, 9 ½ in, 10 ½ in, 11 in, 11 ½ in, 12 in, 12 ½ in	**D8555**
	13 in, 13 ½ in, 14 in, 14 ½ in, 15 in, 15 ½ in, 16 in, 16 ½ in, 17 in, 17 ½ in, 18 in, 18 ½ in	**D8556**
	19 in, 19 ½ in, 20 in, 20 ½ in, 21 in, 21 ½ in	**D8557**
	22 in, 22 ½ in, 23 in, 23 ½ in, 24 in	**D8558**
	30 in, 36 in	**D8559**

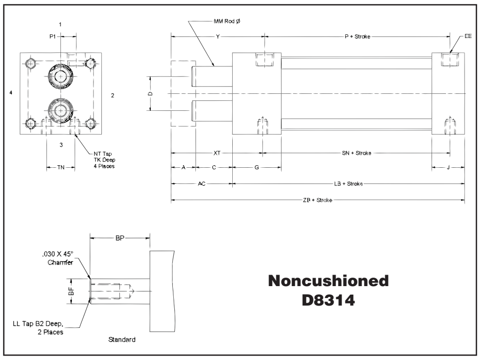
Mount Type	Fits	Item No.
Cylinder Mounting Hardware		
Rear Detachable Clevis	1½ in	**36NK59**
	2 in	**36NK60**
	2½ in	**36NK61**
	3¼ in	**36NK62**
	4 in	**36NK63**
	5 in	**36NK64**
Rectangular Flange Bracket	1½ in	**5VLX8**
	2 in	**5VLX9**
	2½ in	**5VLY0**
	3¼ in	**5VLY6**
	4 in	**5VLY7**
Rod Clevis	1½ in, 2 in, 2½ in	**36NK65**
	3¼ in, 4 in, 5 in	**5VLX7**
Wall Mount Clevis Bracket	1½ in, 2 in, 2½ in	**5VLY1**
	3¼ in, 4 in	**5VLY3**
Wall Mount Eye Bracket	1½ in, 2 in, 2½ in	**5VLY2**
	3¼ in Bore, 4 in Bore	**5VLY5**

SPEEDAIRE®

NFPA Square-Head Twin-Rod Air Cylinders

- Bottom-tapped (MS4) mounting holes, standard
- Max. operating pressure: 250 psi, except 1⅛" bore are 150 psi
- Temp. range: -20° to 200°F

Permanently lubricated, heavy-duty, double-acting air cylinders for applications requiring guided movement when it is critical that the piston rod not rotate. 2 piston rods prevent rods from twisting and turning off the axis, for reliable, repeatable linear motion with no need for external guides. Cylinder bearing wear is also minimized by the nonrotating twin-rod design. High-tensile strength aluminum cylinders have chrome-plated polished steel piston rods, high-strength steel tie rods, cast-iron rod bearings, and U-cup piston cylinders.



Noncushioned
D8314

Dimensions (in.)

Bore	A	AC	B2	BF	BP	C	D	EE	G	J	LB	LL	MM	NT	P	P1	SN	TK	TN	XT	Y	ZB
1⅛	0.625	1.5	0.5	0.313	1.063	0.875	0.627	⅛	0.875	0.625	2.25	¼-28	0.312	10-32	1.469	0.241	1.5	0.25	0.5	2	2.031	3.75
1½	0.625	1.875	0.625	0.375	1.375	1.25	0.75	¼	1.5	1	3.625	5⁄16-24	0.375	¼-20	2.125	0.303	2.25	0.375	0.625	2.812	2.875	5.5
2	0.75	1.875	0.625	0.625	1.25	1.125	1.052	¼	1.5	1	3.625	5⁄16-24	0.625	5⁄16-18	2.125	0.48	2.25	0.375	0.875	2.812	2.875	5.5
2½	0.75	2.125	0.75	0.625	1.5	1.375	1.398	¼	1.5	1	3.75	⅜-24	0.625	⅜-16	2.25	0.635	2.375	0.625	1.25	3.063	3.125	5.875
3¼	1.25	2.375	1	1	1.25	1.125	2	⅜	1.75	1.25	4.25	½-20	1	1/2/13	2.625	0.845	2.625	0.625	1.5	3.437	3.437	6.625

Bore Dia.	▶CHOOSE: Stroke	Non-Rotating, Switch Ready Item No.	Non-Rotating, Not Switch Ready Item No.
Noncushioned			
1⅛ in	1 in, 2 in, 3 in, 4 in, 5 in	D8346	D8314
	6 in, 7 in, 8 in, 9 in, 10 in	D8349	D8317
Adjustable Cushion			
1½ in	2 in, 3 in, 4 in, 5 in	D8351	—
	2 in, 3 in, 4 in	—	D8318
	6 in, 7 in, 8 in, 9 in, 10 in	D8352	D8319
2 in	2 in, 3 in, 4 in, 5 in	D8355	D8323
	6 in, 7 in, 8 in, 9 in, 10 in	—	D8324
	11 in, 12 in, 13 in, 14 in	D8357	—
2½ in	2 in, 3 in, 4 in, 5 in	D8361	D8328
	6 in, 7 in, 8 in, 9 in, 10 in	D8362	D8329
	11 in, 12 in, 13 in, 14 in, 15 in	D8363	D8331
	16 in, 17 in, 18 in, 19 in, 20 in	D8366	—
3¼ in	2 in, 3 in, 4 in, 5 in	D8367	D8335
	4 in, 6 in, 7 in, 8 in, 9 in	D8371	D8338
	11 in, 12 in, 13 in, 14 in, 15 in	D8372	D8339
	16 in, 17 in, 18 in, 19 in, 20 in	D8373	D8341
	21 in, 22 in, 23 in, 24 in	D8376	D8344
	25 in, 26 in, 27 in, 28 in, 29 in, 30 in	D8377	D8345

Item	Bore Dia. (in.)	Item No.
Mounting Brackets		
Rear Flange Mounting Kit	1 ½ in	6X470
	2 in	6ZC61
	2 ½ in	6ZC62
	3 ¼ in	5YCH9
Side Lug Mounting Kit	1 ½ in	1A254
	2 in	1A255
	2 ½ in	1A256
	3 ¼ in	1A257

For Use With	Item No.
Repair Kits	
5VEA7 to 5VEA9, 5VEC0 to 5VEC3, 5YAY9 to 5YAZ8	5YCJ0

Hold-Down Pneumatic Clamps

DESTACO

For use in welding, woodworking (cutting and gluing), drilling, tapping, reaming, and assembly applications. Can be used on automated systems. Toggle-action clamps remain in locked position if air pressure is accidentally lost or hoses are disconnected. Most models are sensor-ready with provisions for mounting sensors (usually grooves) included. Enclosed clamps are designed for dirty environments where contamination can be a problem. For mechanical hold-down clamps, see pages 2319 and 2320.

Holding Cap. (in. lbs.)	Arm	Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Mini Power Clamps				
177	90°	15 x 9mm	81L12-14100	3CXG3
221	120°	15 x 9mm	81L12-10100	3CXG2
354	90°	20 x 12mm	81L16-14100	3CXG5
531	120°	20 x 12mm	81L16-10100	3CXG4
708	90°	20 x 15mm	81L20-14100	3CXG7
708	90°	20 x 15mm	81L25-14100	3CXG9
885	120°	20 x 15mm	81L20-10100	3CXG6
885	120°	20 x 15mm	81L25-10100	3CXG8

Holding Cap. (in. lbs.)	Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Power Clamps			
660	25 x 18mm	82L2G-2030000	3CXH1
1596	20 x 20mm	82L3G-2030000	3CXH3
3360	25 x 20mm	82L4G-2030000	3CXH5
Toggle-Action Power Clamps with Sensor			
660	25 x 18mm	82L2G-203B800	3CXH2
1596	20 x 20mm	82L3G-203B800	3CXH4
3360	25 x 20mm	82L4G-203B800	3CXH6

Holding Cap. (lb.)	Max. Input Air Pressure (psi)	Base Mounting Centers (in.)	Mfr. Model	Item No.
Hold-Down Clamps				
100	80	0.94 x 0.63	812-U	3CXJ1
200	80	1.06 x 0.50	802-U	3CXH7
375	80	1.25 x 0.75	807-U	3CXH8
600	80	1.78 x 1.25	810-U	3CXH9
Hold-Down, Enclosed				
390	145	1.50 x 0.79	8021	3CXJ2
450	145	1.56 x 1.97	8071	3CXJ3
Straight Line Clamps				
600	80	1.31 x 1.44	803	3CXJ5
2500	145	1.63 x 1.38	830	3CXJ7

3CXG2

3CXH1

3CXJ1

3CXJ5

SPEEDAIRE®

ISO Solenoid Coil Connectors

3FFZ7

Note: For additional ISO Valves, go to Grainger.com® and search under "ISO Valves."

Voltage	For Use With	Item No.
120V AC/24V DC	22mm Solenoid Coil	3FFY9
	30mm Solenoid Coil	3FFZ6
With LED Indicating Light		
24V DC	22mm Solenoid Coil	3FFZ1
	30mm Solenoid Coil	3FFZ7
120V AC	22mm Solenoid Coil	3FFZ2
	30mm Solenoid Coil	3FFZ8

3JCP5

3JCU1

numatics

L Series and PA55 Pilot and Manual Air Control Valves

- Max. operating pressure: 150 psi

Pilot—High flow 4-way valves are for use in any control circuit where air pilot signals are available. Require no electrical power to drive the valve, making them suitable for use in hazardous locations.

Manual—Lever-operated valves provide high flow; balanced spool-and-sleeve design provides easy operation, regardless of system pressure. Valves operate with lubricated or nonlubricated compressed air and are easily plumbed into the system.

Port Size (in.)	Actuator/ Return	Valve Type	Cv	No. of Positions	L (in.)	Mfr. Model	Item No.
Base Mounted Pilot							
—	Pilot/Pilot	—	5.5	2	8 1⁄16 in	554JJ4000000000	3JCC7
	Pilot/Spring	—	5.5	2	8 1⁄16 in	554JA4000000000	3JCC6
Body Ported Pilot							
¼	Pilot/Pilot	—	1.0	2	3 ⅝ in	L12PP4520000000	3JCP6
	Pilot/Spring	—	1.0	2	3 5⁄16 in	L12PA4520000000	3JCP5
⅜	Pilot/Pilot	—	1.7	2	3 ⅞ in	L23PP4520000000	3JCU7
	Pilot/Pilot	Open Center	1.7	3	3 ⅞ in	L23PP5520000000	3JCU9
	Pilot/Pilot	Closed Center	1.7	3	3 ⅞ in	L23PP6520000000	3JCV1
	Pilot/Spring	—	1.7	2	3 ⅞ in	L23PA4520000000	3JCU6
	Pilot/Spring	—	1.7	2	4 9⁄16 in	L23JA4520000000	3JCU8

Port Size (in.)	No. of Positions	Center Position	Actuator/Return	Mfr. Model	Item No.
Manual 4-Way					
⅜ NPT	2	—	Lever/Spring	L23LA4520000000	3JCT9
	2	—	Lever with Detent	L23LD4520000000	3JCU1
	3	Open	Lever/Spring	L23LA5520000000	3JCU2
	3	Closed	Lever/Spring	L23LA6520000000	3JCU3
	3	Open	Lever with Detent	L23LD5520000000	3JCU4
	3	Closed	Lever with Detent	L23LD6520000000	3JCU5

numatics

L01 Series Solenoid Valves and Manifolds

3JCL3

- In-line body ported
- 0.2 Cv
- Max. operating pressure: 150 psi

⅛" NPT port, except manifolds have ¼" NPT supply and exhaust ports. Electrical connector included.

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid/Spring Actuator / Return			
4-Way, 2-Position	120V AC	L01SA4592060T30	3JCK8
	24V DC	L01SA4594060T61	3JCL3
4-Way, 2-Position, Speed Control	120V AC	L01SA4872060T30	3JCL1
	24V DC	L01SA4874060T61	3JCL5
Double Solenoid Valves, Solenoid/Solenoid Actuator / Return			
4-Way, 2-Position	120V AC	L01SS4592060T30	3JCK9
	24V DC	L01SS4594060T61	3JCL4
4-Way, 2-Position, Speed Control	120V AC	L01SS4872060T30	3JCL2
	24V DC	L01SS4874060T61	3JCL6

No. of Stations	Mfr. Model	Item No.
Manifold Assembly, Includes Valve Mounting Hardware		
2	241-148	3JDE8
4	241-150	3JDE9
6	241-151	3JDF1
8	241-152	3JDF2

Description	Mfr. Model	Item No.
Manifold Accessories		
Manifold Mounting Kit	239-582	3JDE5
Blank Station Plate Kit	239-583	3JDE7
Speed Control Kit	239-581	3JDE6

SPEEDAIRE®

Manual Air Control Valves

- Max. operating pressure: 150 psi

Rugged, aluminum and cast-iron bodies. Rotary lever valves are high-flow, lubricated, and 3-position operation.

32XC11

Pipe Size	Connection	Cv	CLOSED CENTER Item No.	OPEN CENTER Item No.
¼"	NPT	2.5	32XC10	32XC13
⅜"	NPT	3.0	32XC11	32XC14
½"	NPT	6.2	32XC12	32XC15

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L1 Series Solenoid Valves and Manifolds

- In-line body ported
- 1.0 Cv, except 29NV07 and 29NV08 are 0.5 Cv
- Max. operating pressure: 150 psi, except 29NV07 and 29NV08 are 100 psi
- ¼" NPT port
- Electrical connector included
- Manifolds include mounting kits

3JCN2

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid Air Pilot/Spring Actuator / Return			
4-Way, 2-Position	120V AC	L12BA4520060T30	3JCN2
	24V DC	L12BA452B060T61	3JCN6
	240V AC	L12BA4520060T40	3JCP1
High-Speed, Solenoid/Spring Actuator / Return			
4-Way, 2-Position with Flush Non-Locking Override	24V DC	92280-2	29NV08
4-Way, 2-Position, without Override	24V DC	92280-1	29NV07
Double Solenoid Valves, Solenoid Air Pilot/Solenoid Air Pilot Actuator / Return			
4-Way, 2-Position	120V AC	L12BB4520060T30	3JCN3
	24V DC	L12BB452B060T61	3JCN7
	240V AC	L12BB4520060T40	3JCP2
4-Way, 3-Position, Closed Center	120V AC	L12BB6520060T30	3JCN5
	24V DC	L12BB652B060T61	3JCN9
4-Way, 3-Position, Open Center	120V AC	L12BB5520060T30	3JCN4
	24V DC	L12BB552B060T61	3JCN8
	240V AC	L12BB5520060T40	3JCP3

No. of Stations	Mfr. Model	Item No.
Manifold Assembly		
2	206-1749	3JCP9
3	206-1750	3JCR1
4	206-1751	3JCR2
6	206-1753	3JCR3
8	206-1755	3JCR4
10	206-1757	3JCR5

Description	Mfr. Model	Item No.
Accessories		
Blank Station Plate Kit	239-288	3JCP8
Cable, For High-Speed Valves, 72 in"L	ND0306FBN0000000	29NV09
Cable, For High-Speed Valves, 180 in"L	ND0315FBN0000000	29NV10
Manifold Mounting Kit	239-311	3JCP7

29NU80

numatics

L1 and L2 Series Hazardous Location Valves

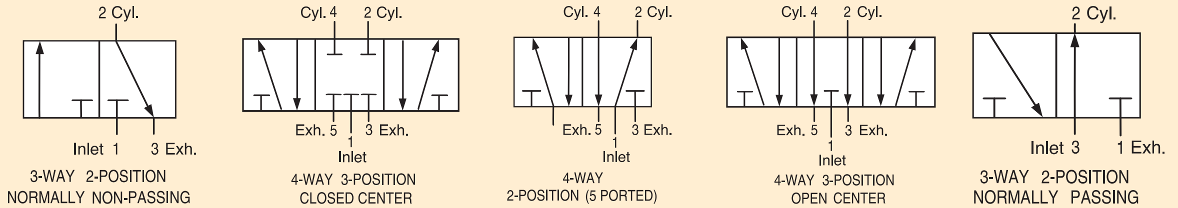
- Max. operating pressure: 150 psi

Valves are explosionproof and intrinsically safe for use in hazardous locations. Feature spool and floating sleeve design that can last millions of cycles.

Additional sizes available on Grainger.com®.

Description	Pipe Size	Cv	Voltage	Mfr. Model	Item No.
Solenoid Air Pilot/Spring					
4-Way, 2-Position	⅛ in	1	120V AC	L11XA452OP00030	29NU66
	¼ in	1	120V AC	L12XA452OP00030	29NU68
	¼ in	1	24V DC	L12XA452BP00061	29NU69
	¼ in	1.7	24V DC	L22XA452BP00061	29NU71
	¼ in	1.7	120V AC	L22XA452OP00030	29NU70
	⅜ in	1.7	24V DC	L23XA452BP00061	29NU73
	⅜ in	1.7	120V AC	L23XA452OP00030	29NU72
4-Way, 3-Position, Closed Center Position	⅛ in	1	24V DC	L12IA452BP00061	29NU79
Double Solenoid Air Pilot					
4-Way, 2-Position, Detented	¼ in	1	24V DC	L12XX452BP00061	29NU80
	⅜ in	1.7	120V AC	L23XX452OP00030	29NU93

Port Configurations—Directional Control Valves



3JCV9 3JCT4

NUMATICS

L2 Series Solenoid Valves and Manifolds

- In-line body ported
- 1.7 Cv
- Max. operating pressure: 150 psi
- ⅜" NPT port
- Electrical connector included
- Manifolds include mounting kits

Description	Voltage	Mfr. Model	Item No.
Single Solenoid Valves, Solenoid Air Pilot/ Spring Actuator / Return			
4-Way, 2-Position	120V AC	L23BA452O060T30	3JCR6
	24V DC	L23BA452B060T61	3JCT1
	240V AC	L23BA452O060T40	3JCT5
Double Solenoid Valves, Solenoid Air Pilot/ Solenoid Air Pilot Actuator / Return			
4-Way, 2-Position	120V AC	L23BB452O060T30	3JCR7
	24V DC	L23BB452B060T61	3JCT2
	240V AC	L23BB452O060T40	3JCT6
4-Way, 3-Position, Closed Center	120V AC	L23BB652O060T30	3JCR9
	24V DC	L23BB652B060T61	3JCT4
	240V AC	L23BB652O060T40	3JCT8
4-Way, 3-Position, Open Center	120V AC	L23BB552O060T30	3JCR8
	24V DC	L23BB552B060T61	3JCT3
	240V AC	L23BB552O060T40	3JCT7

No. of Stations	Mfr. Model	Item No.
Manifold Assembly		
2	206-1760	3JCV5
3	206-1761	3JCV6
4	206-1762	3JCV7
5	206-1763	3JCV8
6	206-1764	3JCV9

Description	Mfr. Model	Item No.
Manifold Accessories		
Manifold Mounting Kit	239-312	3JCV2
Blank Station Plate Kit	239-471	3JCV3
Speed Control Kit	239-209	3JCV4

3JCL9

NUMATICS

L Series and Mark 3 Series Solenoid Coil Connectors

All connectors are for use with L and Mark 3 Series coils. Plug-in connectors aid line-mounted valve and manifold assembly maintenance. Color coded to correct solenoid on double solenoid valves; black is 12 solenoid, gray is 14.

Color	Voltage	Indicating Light	Mfr. Model	Item No.
Gray	24V to 220V	No	230-363 grey 14 end	3JCL7
Black	24V to 220V	No	230-364 black 12 end	3JCL8
Clear w/ light	24V DC	Yes	230-365 24V	3JCL9
	110V	Yes	230-366 110V	3JDE3
	220V	Yes	230-367 220V	3JDE4

3JCH5

3JCG6

NUMATICS

Mark 3 Series Solenoid Valves, Subbase/ Manifolds, and Pressure Regulators

- 0.35 Cv
- Max. operating pressure: 150 psi
- Plug-in version includes electrical connector

Subbase-mounted direct-acting solenoid valves.

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Subbase	⅛	1	103-493	3JCJ7
Manifold Block	⅛	1	229-718	3JCJ4
	10-32 UNF-B	2	229-524	3JCJ8
	10-32 UNF-B	3	229-525	3JCJ9

Adjustment Range	Mfr. Model	Item No.
Sandwich Dual Air Regulator		
3 to 30 psi	031RD3000000000	3JCK6
10 to 100 psi	031RD7000000000	3JCK5
Sandwich Single Air Regulator		
3 to 30 psi	031RS3000000000	3JCK4
10 to 100 psi	031RS7000000000	3JCK3
Speed Control Kit		
Speed Control Kit for Mark 3 Series Base/Manifolds	239-469	3JCK2

Description	For Use With	Mfr. Model	Item No.
Manifold Accessories			
End Plate Kit	10/32 in Ported Mark 3 Series Manifold Blocks	229-526	3JCK1
	⅛ in Ported Mark 3 Series Manifold Blocks	229-719	3JCJ5
Blocking Disk	Mark 3 Series Manifold Blocks	124-151	3JCJ6
Blank Station Plate Kit	Mark 3 Series Manifold Blocks	229-538	3JCK7

Description	Actuator/Return	VOLTAGE 120V AC Mfr. Model	120V AC Item No.	24V DC Mfr. Model	24V DC Item No.
Solenoid Air Control Valve					
DIN Plug-In Solenoid					
4-Way, 2-Position, 5-Port	Solenoid/Spring	031SA4002060T30	3JCG6	—	—
	Solenoid/Solenoid	—	—	031SS4004060T61	3JCH2
4-Way, 2-Position, 5-Port, Spring Centered	Solenoid/Spring	—	—	031SA4004060T61	3JCH1
4-Way, 3-Position, 5-Port, Open Center	Solenoid/Solenoid	031SS5002060T30	3JCG8	031SS5004060T61	3JCH3
4-Way, 3-Position, 5-Port, Closed Center	Solenoid/Solenoid	—	—	031SS6004060T61	3JCH4
Hardwired w/15 in Leads					
4-Way, 2-Position, 5-Port	Solenoid/Spring	031SA4000000030	3JCH5	031SA400B000061	3JCH9
	Solenoid/Solenoid	031SS4000000030	3JCH6	—	—
4-Way, 3-Position, 5-Port, Open Center	Solenoid/Solenoid	—	—	031SS500B000061	3JCJ2
4-Way, 3-Position, 5-Port, Closed Center	Solenoid/Solenoid	—	—	031SS600B000061	3JCJ3

3JAW7

3JAX6

3JAY4

NUMATICS

Mark 8 Series Subbase/Manifold-Mounted Solenoid Valves, Pressure Regulators

- 1.0 Cv
- Max. operating pressure: 150 psi
- Pressure regulators include gauge

Direct-acting valves have electrical connections made through base.

Description	Actuator/Return	Voltage 120V AC Mfr. Model	120V AC Item No.	24V DC Mfr. Model	24V DC Item No.
Mark 8 Valves					
Mark 8 Series Subbase/Manifold-Mounted Solenoid Air Valve					
4-Way, 2-Position	Solenoid/Spring	081SA400K000030	3JAW7	081SA400M000061	3JAX2
	Solenoid/Solenoid	081SS400K000030	3JAW8	081SS400M000061	3JAX3
4-Way, 3-Position, Open Center Position	Solenoid/Solenoid	081SS500K000030	3JAW9	081SS500M000061	3JAX4
4-Way, 3-Position, Closed Center Position	Solenoid/Solenoid	081SS600K000030	3JAX1	081SS600M000061	3JAX5

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Manifold Block	¼	1	229-676	3JAX6
Subbase Common Exhaust	¼	1	203-441	3JAX7
Subbase Individual Exhaust	¼	1	203-439	3JAX8
Manifold Accessories				
End Plate Kit			229-691	3JAX9
Blocking Disk			229-994	3JAY3

Description	Adjustment Range	Mfr. Model	Item No.
Pressure Regulators			
Single Pressure	10 to 130 psi	081RS100J000000	3JAY4
Dual Pressure	10 to 130 psi	081RD100J000000	3JAY5
Speed Control Kits			
Mark 8 Series Valves on Bases or Manifolds		245-160	3JAY1
Electrical Plug for Mark 8 Speed Control		230-276	3JAY2

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3JAY6

Mark 15 Series Solenoid Valves, Subbase/Manifolds, Pressure Regulators, and Accessories

- 1.5 Cv
- Max. operating pressure: 150 psi
- Pressure regulators include gauge

Subbase-mounted direct-acting solenoid valve; electrical connections made through base.

Type	Actuator/Return	VOLTAGE 120V AC Mfr. Model	120V AC Item No.	24V DC Mfr. Model	24V DC Item No.
Mark 15 Valves					
4-Way, 2-Position	Solenoid/Spring	152SA400K000030	3JAY6	152SA400M000061	3JAZ1
4-Way, 2-Position	Solenoid/Solenoid	152SS400K000030	3JAY7	152SS400M000061	3JAZ2
4-Way, 3-Position, Open Center	Solenoid/Solenoid	152SS500K000030	3JAY8	152SS500M000061	3JAZ3
4-Way, 3-Position, Closed Center	Solenoid/Solenoid	152SS600K000030	3JAY9	152SS600M000061	3JAZ4

Description	NPT Port (in.)	No. of Stations	Mfr. Model	Item No.
Manifolds				
Manifold Block	⅜	1	229-630	3JAZ5
Subbase Common Exhaust	⅜	1	203-361	3JAZ6
Subbase Individual Exhaust	⅜	1	203-359	3JAZ7
Manifold Accessories				
End Plate Kit			229-621	3JAZ8
Blank Station Plate Kit			229-620	3JCA1
Blocking Disk			124-141	3JCA2

Description	Adjustment Range	Mfr. Model	Item No.
Pressure Regulators			
Sandwich Single Air Regulator	10 to 130 psi	152RS100J000000	3JCA3
Sandwich Dual Air Regulator	10 to 130 psi	152RD100J000000	3JCA4
Speed Control Kit			
Mark 15 Series Valves on Bases or Manifolds		229-664	3JAZ9

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3JCA5

3JCA7

3JCD5

3JCC8

Mark 55 Series Solenoid Valves, Subbase/ Manifolds, Pressure Regulators, and Accessories

Valves—Actuate by either a direct solenoid operator or solenoid pilot.
- 5.5 Cv
- Operating pressure range: full vacuum to 150 psi

Manifolds—Each manifold assembly requires 1 end plate kit (sold separately) to provide the supply and exhaust porting. Hardware for mounting valves to manifold, as well as electrical plugs for the valve to plug into the manifold base, are included.

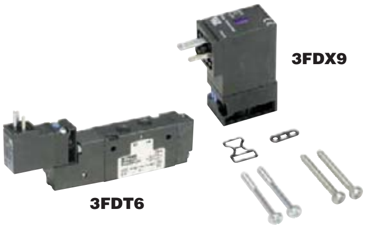
Pressure Regulators and Speed Control Kit for Mark 55 Series—Include a plug receptacle assembly that helps reduce cost. Speed Control Kit 3JCF4 adjusts the metering of exhaust air to control cylinder speed.
- Regulators include gauge, with ⅛" NPT port

Type	Vacuum	VOLTAGE 120V AC Actuator/Return	120V AC Mfr. Model	120V AC Item No.	24V DC Actuator/Return	24V DC Mfr. Model	24V DC Item No.
Single Solenoid Valves							
4-Way, 2-Position	0 to 28"Hg	Solenoid/Spring	554SA400K000030	3JCA5	—	—	—
	0 to 28"Hg	Solenoid Air Pilot/Spring	554BA400K000030	3JCA6	—	—	—
	External pilot	—	—	—	Solenoid Air Pilot/Spring	554BA400MT00061	3JCC2
Double Solenoid Valves							
4-Way, 2-Position	External pilot	Solenoid/Solenoid	554SS400K000030	3JCA7	Solenoid Air Pilot/Solenoid Air Pilot	554BB400MT00061	3JCC3
4-Way, 3-Position, Closed Center	External pilot	Solenoid/Solenoid	554SS600K000030	3JCC1	Solenoid Air Pilot/Solenoid Air Pilot	554BB600MT00061	3JCC5
4-Way, 3-Position, Open Center	External pilot	Solenoid/Solenoid	554SS500K000030	3JCA9	Solenoid Air Pilot/Solenoid Air Pilot	554BB500MT00061	3JCC4

Description	Mfr. Model	Item No.
Manifolds		
½ NPT Port (In.)		
Manifold Block Full Size	229-748	3JCD6
Sub-base Common Exhaust Item, 7 ⅝ in x 2 ⅝ in	229-880	3JCE2
Sub-base Common Exhaust Item, 7 ¼ in x 2 ⅟₁₆ in	203-495	3JCE6
Sub-base Individual Exhaust	203-493	3JCE8
Subbase Common Exhaust Side & Bottom Ported	203-496	3JCF1
Subbase Individual Exhaust Side & Bottom Ported	203-494	3JCF3
¾ NPT Port (In.)		
Manifold Block Full Size	229-749	3JCD5
Sub-base Common Exhaust	229-881	3JCE1
Sub-base Common Exhaust, Side Ported	203-503	3JCE5

Description	Mfr. Model	Item No.
Sub-base Individual Exhaust, Side Ported	203-501	3JCE7
Sub-base Common Exhaust, Side & Bottom Ported	203-504	3JCE9
Subbase Individual Exhaust Side and Bottom Ported	203-502	3JCF2
Manifold Accessories		
Sub-base Common Exhaust, Compact	229-861	3JCE3
End Plate Kit, Full Size	229-841	3JCD7
Blocking Disk, Full Size, EA and EB Gallery	124-154	3JCD8
Blocking Disk, Full Size, P Gallery	124-153	3JCD9
Blocking Disk, Compact, All Galleries	124-160	3JCE4
Blank Station Plate Kit	229-840	3JCF5

Description		Adjustment Range	Mfr. Model	Item No.
Pressure Regulators				
Single Pressure		10 to 130 psi	554RS100JP00000	3JCC8
		3 to 30 psi	554RS300JP00000	3JCC9
Dual Pressure		10 to 130 psi	554RD100JP00000	3JCD2
		3 to 30 psi	554RD300JP00000	3JCD3
		5 to 60 psi	554RD400JP00000	3JCD4
Speed Control Kit, For Mark 55 Series Valves on Bases or Manifolds				
Kit		—	229-908	3JCF4



3FDX9

3FDT6

B Series Solenoid Air Control Valves, Coil Kits, and Accessories

Parker

- Max. operating pressure (valves only): 145 psi
- Min. operating pressure (valves only): 20 psi (B3, B5, and B6 series); 35 psi (B7 and B8 series)
- Max. temp. range (valves only): 5° to 120°F

Valves have a low-friction breakaway for fast response time. Low wear assures long service life.

Pilot Port Size	Cv	24V DC VALVES Mfr. Model	24V DC Item No.*	120V AC VALVES Mfr. Model	120V AC Item No.*
Single Solenoid, 3-Way, 2-Position, Normally Closed					
⅛ in NPT	0.75	B3G0BB549C	3FDN1	B3G0BB553C	3FDL5
¼ in NPT	1.4	B5G1BB549C	3FDN2	B5G1BB553C	3FDL6
⅜ in NPT	2.7	B6V2BB549A	3FDN3	B6V2BB553A	3FDL7
½ in NPT	5.9	B7V3BB549A	3FDN4	B7V3BB553A	3FDL8
¾ in NPT	7	B8V4BB549A	3FDN5	B8V4BB553A	3FDL9
Single Solenoid, 4-Way, 2-Position					
⅛ in NPT	0.75	B310BB549C	3FDY2	B310BB553C	3FDR4
¼ in NPT	1.4	B511BB549C	3FDH5	B511BB553C	3FDT6
⅜ in NPT	2.7	B612BB549A	3FDK6	B612BB553A	3FDU8
½ in NPT	5.9	B713BB549A	3FDL3	B713BB553A	3FDW1
¾ in NPT	7	B814BB549A	3FDL4	B814BB553A	3FDX3
Double Solenoid, 4-Way, 2-Position					
⅛ in NPT	0.75	B320BB549C	3FDP2	B320BB553C	3FDN6
¼ in NPT	1.4	B521BB549C	3FDP3	B521BB553C	3FDN7
⅜ in NPT	2.7	B622BB549A	3FDP4	B622BB553A	3FDN8
½ in NPT	5.9	B723BB549A	3FDP5	B723BB553A	3FDN9
¾ in NPT	7	B824BB549A	3FDP6	B824BB553A	3FDP1

Pilot Port Size	Cv	24V DC VALVES Mfr. Model	24V DC Item No.*	120V AC VALVES Mfr. Model	120V AC Item No.*
Double Solenoid, 4-Way, 3-Position, Center Position Closed					
⅛ in NPT	0.6	B350BB549C	3FDR3	B350BB553C	3FDP7
¼ in NPT	1.1	B551BB549C	3FDR5	B551BB553C	3FDP8
⅜ in NPT	2.1	B652BB549A	3FDR6	B652BB553A	3FDP9
½ in NPT	5.7	B753BB549A	3FDR7	B753BB553A	3FDR1
¾ in NPT	6.6	B854BB549A	3FDR8	B854BB553A	3FDR2
Double Solenoid, 4-Way, 3-Position, Pressure Center					
⅛ in NPT	0.6	B370BB549C	3FDV9	B370BB553C	3FDV4
¼ in NPT	1.1	B571BB549C	3FDW2	B571BB553C	3FDV5
⅜ in NPT	2.1	B672BB549A	3FDW3	B672BB553A	3FDV6
½ in NPT	5.7	B773BB549A	3FDW4	B773BB553A	3FDV7
¾ in NPT	6.6	B874BB549A	3FDW5	B874BB553A	3FDV8
Double Solenoid, 4-Way, 3-Position, Center Exhaust					
⅛ in NPT	0.6	B360BB549C	3FDX2	B360BB553C	3FDW6
¼ in NPT	1.1	B561BB549C	3FDX4	B561BB553C	3FDW7
⅜ in NPT	2.1	B662BB549A	3FDX5	B662BB553A	3FDW8
½ in NPT	5.7	B763BB549A	3FDX6	B763BB553A	3FDW9
¾ in NPT	6.6	B864BB549A	3FDX7	B864BB553A	3FDX1

** Requires DIN coil connector.*

Function	Item No.
B Service Kit	
3-Pin Connection 120V AC Lighted	3FDY4
B3 Body/Spool Service Kits	
2 Position, 4 Way	3FDY5
3 Position All Ports Blocked, 4 Way	3FDY6
3 Position Center Exhaust, 4 Way	3FDY7
3 Way, 2 Position Normally Closed	3FDY9
B5 Body/Spool Service Kits	
2 Position, 4 Way	3FDZ1
3 Position All Ports Blocked, 4 Way	3FDZ2
3 Position Center Exhaust, 4 Way	3FDH7
3 Position Pressure Center, 4 Way	3FDH9
3 Way, 2 Position Normally Closed	3FDJ2
B6 Body/Spool Service Kits	
2 Position, 4 Way	3FDJ5
3 Position Center Exhaust, 4 Way	3FDJ9
3 Position Pressure Center, 4 Way	3FDK2
B7 and B8 Body/Spool Service Kits	
2 Position, 4 Way	3FDK5
3 Position All Ports Blocked, 4 Way	3FDK7
3 Position Pressure Center, 4 Way	3FDK9
3 Way, 2 Position Normally Closed	3FDL1
Replacement Coils	
Replacement Solenoid Coil 120V AC	3FDX9
Replacement Solenoid Coil 24V DC	3FDX8
Seals	
Soft Seal Kit for 3-Position Valve	3FDF9
Solenoid Coil Connector	
Required for use with Solenoids	3FDY1

3FFC5

Parker

Viking Series Solenoid Air-Control Valves

- Max. operating pressure: 232 psi
- Operating temp. down to -40°F
- Direct pipe ported
- Requires 22 or 30mm solenoid

		SINGLE SOLENOID, 4-WAY, 2-POSITION		DOUBLE SOLENOID, 4-WAY, 2-POSITION	
Pilot Port Size	Cv	Mfr. Model	Item No.	Mfr. Model	Item No.
⅛ in NPT	0.7	P2LAX591ESHDDN	**3FFC1**	P2LAX591EEHDDN	**3FFA3**
¼ in NPT	1.3	P2LBX592ESHDDN	**3FFC5**	P2LBX592EEHDDN	**3FFC4**
⅜ in NPT	2.5	P2LCX593ESHDDN	**3FFC7**	P2LCX593EEHDDN	**3FFC6**
½ in NPT	2.7	P2LDX594ESHDDN	**3FFC9**	P2LDX594EEHDDN	**3FFC8**

Function	Item No.
Viking Xtreme Series Kits	
Solenoid Kit 30MM 3-Pin 24V DC Mobile	**3FFA5**
Solenoid Kit Grommet 18 in Lead 12V DC Mobile	**3FFA6**
Solenoid Kit Grommet 18 in Lead 24V DC Mobile	**3FFA7**
Solenoid Kit Grommet 18 in Lead 120V AC	**3FFA8**
22MM 3-Pin 12V DC Mobile	**3FFA9**
22MM 3-Pin 24V DC Mobile	**3FFC2**
22MM 3-Pin 120V AC	**3FFC3**
30MM 3-Pin 120V AC	**3FEF7**

3FEM7

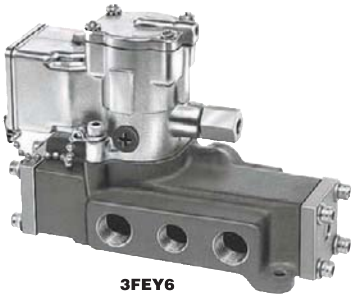
Parker

N Series Solenoid Air-Control Valves and Seal Kits

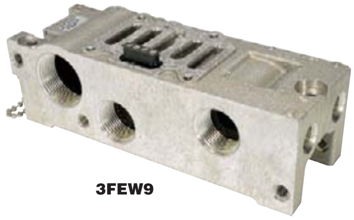
- Max. operating pressure: 140 psi
- Direct pipe ported

		24V DC		120V AC	
NPT Port (in.)	Cv	Mfr. Model	Item No.	Mfr. Model	Item No.
Single Solenoid, 2-Way, 2-Position, Normally Closed					
⅜	3.6	N3153904549	**3FEJ6**	—	—
½	3.8	N3154904549	**3FEJ7**	N3154904553	**3FEM7**
¾	9.3	N3156904549	**3FEJ8**	N3156904553	**3FEN5**
1	9.3	N31431091	**3FEJ9**	N3157904553	**3FEP3**
1¼	23.3	N3258504749	**3FEK1**	N3258904753	**3FER1**
1½	23.3	N3259504749	**3FEK2**	N3259904753	**3FER7**
Single Solenoid, 3-Way, 2-Position, Normally Closed					
⅜	3.6	N3553904549	**3FEK9**	N3553904553	**3FEK3**
½	3.8	N3554904549	**3FEL1**	N3554904553	**3FEK4**
¾	9.3	N3556904549	**3FEL2**	N3556904553	**3FEK5**
1	9.3	N3557904549	**3FEL3**	N3557904553	**3FEK6**
1¼	23.3	N3658504749	**3FFD1**	N3658904753	**3FEK7**
1½	23.3	—	—	N3659904753	**3FEK8**
Single Solenoid, 3-Way, 2-Position, Normally Open					
⅜	3.6	N3753904549	**3FEM2**	N3753904553	**3FEL4**
½	3.8	N3754904549	**3FEM3**	N3754904553	**3FEL5**
¾	9.3	N3756904549	**3FEM4**	N3756904553	**3FEL6**
1	9.3	N3757904549	**3FEM5**	N3757904553	**3FEL7**
1¼	23.3	N3858504749	**3FEM6**	N3858904753	**3FEL8**
1½	23.3	—	—	N3859904753	**3FEM1**

Function	Item No.
Coil Kits	
Coil 24V DC Small Wire	**3FER5**
Coil 115V-60	**3FER6**
Seal Kits	
For ¾ in N Series and Valvair II Series Valves	**3FER3**
For 1¼ in N Series and Valvair II Series Valves	**3FER4**



3FEY6



3FEW9

Parker

Valvair II Series Solenoid Air-Control Valves

- Max. operating pressure: 145 psi
- Plug-In: design simplifies maintenance, installation, and helps reduce downtime. No wiring or plumbing to disturb
- Direct Pipe: design helps deliver high performance, economical

		24V DC		120V AC	
NPT Port (in.)	Cv	Mfr. Model	Item No.	Mfr. Model	Item No.
Single Solenoid, 4-Way, 2-Position, Plug-In Subbase					
⅜	5	L6753910249	**3FEW1**	L6753910253	**3FET8**
1	11.3	L6758910249	**3FEW3**	L6758910253	**3FEW2**
Single Solenoid, 4-Way, 2-Position, Direct Pipe Ported					
1	12	L7058910249	**3FEY6**	L7058910253	**3FEY4**
1¼	12	L7059910249	**3FEY7**	L7059910253	**3FEY5**
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Pressure Center Position					
⅜	4.5	L6653923149	**3FEX5**	L6653923153	**3FEX4**
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Open Center Position					
⅜	4.5	L6653922149	**3FEX3**	L6653922153	**3FEX2**
1	11.3	L6658922149	**3FEY1**	L6658922153	**3FEX9**
Double Solenoid, 4-Way, 3-Position, Plug-In Subbase, Closed Center Position					
⅜	4.5	L6653921149	**3FEX1**	L6653921153	**3FEW8**
1	11.3	L6658921149	**3FEX8**	L6658921153	**3FEX7**
Double Solenoid, 4-Way, 3-Position, Direct Pipe Ported, Open Center Position					
1	12	L6958922149	**3FEU5**	L6958922153	**3FEU3**
1¼	12	L6959922149	**3FEU6**	L6959922153	**3FEU4**
Double Solenoid, 4-Way, 3-Position, Direct Pipe Ported, Closed Center Position					
1¼	12	L6959921149	**3FEU2**	L6959921153	**3FET9**
1	12	L6958921149	**3FEU1**	L6958921153	**3FEZ5**
Double Solenoid, 4-Way, 2-Position, Plug-In Subbase					
1	11.3	L6558910249	**3FEW7**	L6558910253	**3FEW6**
⅜	5	L6553910249	**3FEV9**	L6553910253	**3FEU8**
Double Solenoid, 4-Way, 2-Position, Direct Pipe Ported					
1¼	12	L6859910249	**3FEZ3**	L6859910253	**3FEZ1**
1	12	L6858910249	**3FEZ2**	L6858910253	**3FEY9**

NPT Port (in.)	For Use With	Mfr. Model	Item No.
Manifolds			
⅜	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K142230	**3FEW9**
½	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K142231	**3FEX6**
¾	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K142270	**3FEY2**
Subbase			
⅜	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K022090	**3FEY3**
½	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K022091	**3FEY8**
¾	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K022101	**3FEZ4**
1	3FEV9, 3FEW1, 3FEW3, 3FEW7, 3FEX1, 3FEX3, 3FEX5, 3FEX8, 3FEY1	K022095	**3FEW4**

Function	Item No.
Coil Kits	
Coil 24V DC Small Wire	**3FER5**
Coil 115V-60	**3FER6**
Override Kits	
Nonlocking Type	**3FEV7**
Locking Type	**3FEV8**

3FEA6

3FEE6

3FEJ3

3FDF7

Parker

3- and 4-Way Manual Air Control Valves

DIRECTAIR SERIES

- Max. temp. range: 32° to 175°F

Compact design for manual or mechanical operation. Feature fluorocarbon seals and a stainless steel spool for greater chemical compatibility and the ability to withstand higher temperatures.

DirectAir 2 Series operators include roller, lever, push button, plunger, and 1-way tripper spool and poppet type valves. Features space-saving mounting to provide cylinder positioning feedback.

DirectAir 4 series operators include roller, lever, button, petal, and treadle foot operated valves.

MO SERIES

- Max. temp. range: -15° to 200°F

Corrosion-resistant construction with bronze body and stainless steel spool allows valves to be used in either air or low-pressure oil applications. Closed crossover spool design minimizes compressed air waste as the valve shifts, for energy-efficient operation.

VIKING SERIES

- Max. temp. range: -40° to 158°F

Inline valves with lever operators are suitable for outdoor and transportation applications. Valves feature high flows, and dusttight and watertight construction.

42 SERIES

- Max. temp. range: 0° to 140°F

Compact inline valves are specifically made for applications that require very high flows.

Pipe Size	Max. CFM	Actuator/Return	Valve Max. Pressure Rating	Mfr. Model	Item No.
Directair 2 Series					
3-Way/2-Position					
⅛" NPT	0.17 cfm	1-Way Tripper/Spring	150 psi	404311000	**3FEA2**
	0.17 cfm	Button/Spring	150 psi	404411000	**3FEA4**
	0.17 cfm	Lever/Spring	150 psi	404711000	**3FEA5**
	0.17 cfm	Plunger/Spring	150 psi	404111000	**3FEA6**
	0.17 cfm	Roller/Spring	150 psi	404211000	**3FDZ3**
	0.17 cfm	Toggle/Spring	150 psi	404811000	**3FEA3**
	0.2 cfm	1-Way Tripper/Spring	150 psi	414311000	**3FEA9**
	0.2 cfm	Button/Manual	150 psi	414931000	**3FEC3**
	0.2 cfm	Button/Spring	150 psi	414411000	**3FEC2**
	0.2 cfm	Lever/Spring	150 psi	414711000	**3FEC4**
	0.2 cfm	Plunger/Spring	150 psi	414111000	**3FEA7**
	0.2 cfm	Roller/Spring	150 psi	414211000	**3FEA8**
	0.2 cfm	Toggle/Spring	150 psi	414811000	**3FEC1**
4-Way/2-Position					
⅛" NPT	0.2 cfm	1-Way Tripper/Spring	150 psi	410311000	**3FEC7**
	0.2 cfm	Button/Manual	150 psi	410931000	**3FDZ6**
	0.2 cfm	Button/Spring	150 psi	410411000	**3FDZ5**
	0.2 cfm	Lever/Spring	150 psi	410711000	**3FDZ7**
	0.2 cfm	Plunger/Spring	150 psi	410111000	**3FEC5**
	0.2 cfm	Roller/Spring	150 psi	410211000	**3FEC6**
	0.2 cfm	Toggle/Spring	150 psi	410811000	**3FDZ4**
Body Service Kit					
3-Way and 4-Way Spool and Poppet Type Valves, Body Service Kit			—	410008005	**3FEA1**
Spool Kit					
3-Way and 4-Way Valves, Spool Kit			—	410008000	**3FDZ8**
Directair 4 Series					
3-Way/2-Position					
¼" NPT	0.83 cfm	Button/Manual	150 psi	524431000	**3FED8**
	0.83 cfm	Button/Spring	150 psi	524411000	**3FED5**
	0.83 cfm	Lever/Manual	150 psi	524831000	**3FED3**
	0.83 cfm	Lever/Spring	150 psi	524811000	**3FED2**
	0.83 cfm	Pedal/Spring	150 psi	524711000	**3FED4**
	0.83 cfm	Roller/Spring	150 psi	524211000	**3FEC9**
	0.83 cfm	Roller/Spring	150 psi	524A11000	**3FED1**
	0.83 cfm	Treadle/Manual	150 psi	524931000	**3FEC8**
3-Way/3-Position					
¼" NPT	0.83 cfm	Lever/Manual	150 psi	523831000	**3FED6**
4-Way/2-Position					
¼" NPT	0.83 cfm	Button/Manual	150 psi	520431000	**3FED9**
	0.83 cfm	Button/Spring	150 psi	520411000	**3FED7**
	0.83 cfm	Lever/Manual	150 psi	520831000	**3FEE6**
	0.83 cfm	Lever/Spring	150 psi	520811000	**3FEE5**
	0.83 cfm	Pedal/Spring	150 psi	520711000	**3FEE1**
	0.83 cfm	Roller/Spring	150 psi	520211000	**3FEE3**
	0.83 cfm	Roller/Spring	150 psi	520A11000	**3FEE4**
	0.83 cfm	Treadle/Manual	150 psi	520931000	**3FEE2**

Pipe Size	Max. CFM	Actuator/Return	Valve Max. Pressure Rating	Mfr. Model	Item No.
Directair 4 Series (Cont.)					
4-Way/3-Position					
¼" NPT	0.83 cfm	Lever/Manual	150 psi	521831000	**3FEF1**
	0.83 cfm	Lever/Manual	150 psi	522831000	**3FEF2**
	0.83 cfm	Lever/Manual	150 psi	529831000	**3FEF3**
	0.83 cfm	Lever/Spring	150 psi	521811000	**3FEE7**
	0.83 cfm	Lever/Spring	150 psi	522811000	**3FEE8**
	0.83 cfm	Lever/Spring	150 psi	529811000	**3FEE9**
Service Kit					
Body Repair Kit			—	520018005	**3FEF5**
Valve Seal			—	520008050	**3FEF4**
MO Series					
3-Way/2-Position					
⅜" NPT	3.4 cfm	Knob/Detent	225 psi	M05432448	**3FEF8**
	3.4 cfm	Lever/Detent	225 psi	M05432443	**3FEF9**
½" NPT	5.2 cfm	Knob/Detent	215 psi	M05442448	**3FEG7**
	5.2 cfm	Lever/Detent	215 psi	M05442443	**3FEG1**
¾" NPT	9.5 cfm	Knob/Detent	200 psi	M05462448	**3FEH6**
	9.5 cfm	Lever/Detent	200 psi	M05462443	**3FEG2**
4-Way/2-Position					
⅜" NPT	3.4 cfm	Knob/Detent	225 psi	M05435448	**3FEJ1**
	3.4 cfm	Lever/Detent	225 psi	M05435443	**3FEG3**
½" NPT	5.2 cfm	Knob/Detent	215 psi	M05445448	**3FEJ2**
	5.2 cfm	Lever/Detent	215 psi	M05445443	**3FEG4**
4-Way/3-Position					
⅜" NPT	3.4 cfm	Knob/Detent	225 psi	M05435148	**3FEJ3**
	3.4 cfm	Lever/Detent	225 psi	M05435143	**3FEG5**
½" NPT	5.2 cfm	Knob/Detent	215 psi	M05445148	**3FEJ4**
	5.2 cfm	Lever/Detent	215 psi	M05445143	**3FEG6**
¾" NPT	9.5 cfm	Knob/Detent	200 psi	M05465148	**3FEJ5**
	9.5 cfm	Lever/Detent	200 psi	M05465143	**3FEG8**
Seal Kit					
⅜ in Body			—	M242002	**3FEH7**
½ in Body			—	M242003	**3FEH8**
¾ in Body			—	M242004	**3FEH9**
Viking Series					
4-Way/2-Position					
⅛" NPT	0.6 cfm	Lever/Detent	232 psi	P2LAX591VV	**3FEZ7**
	0.6 cfm	Lever/Spring	232 psi	P2LAX591VS	**3FEZ6**
4-Way/3-Position					
⅛" NPT	0.6 cfm	Lever/Spring	232 psi	P2LAX69111	**3FEZ8**
	0.6 cfm	Lever/Spring	232 psi	P2LAX89111	**3FFA1**
	1.5 cfm	Lever/Detent	232 psi	P2LAX69122	**3FEZ9**
	1.5 cfm	Lever/Detent	232 psi	P2LAX89122	**3FFA2**

Pipe Size	Cv	Actuator/Return	Valve Max. Pressure Rating	Mfr. Model	Item No.
42 Series					
4-Way/2-Position					
⅜" NPT	2.9	Lever/Spring	150 psi	422CS021K	**3FDG1**
	2.9	Lever/Spring	150 psi	422CR021K	**3FDG3**
	2.9	Lever/Detent	150 psi	422CS021W	**3FDG2**
	2.9	Lever/Detent	150 psi	422CR021W	**3FDG4**
	2.9	Foot Pedal/Spring	150 psi	422CT021K	**3FDF7**
4-Way/3-Position					
⅜" NPT	1.3	Lever/Detent	150 psi	422CS023W	**3FDG6**
	1.3	Lever/Detent	150 psi	422CR023W	**3FDH1**
	1.3	Lever/Detent	150 psi	422CS024W	**3FDG8**
	1.3	Lever/Detent	150 psi	422CR024W	**3FDH3**

Parker

Pilot-Operated Air Valves

- Temp. range: 0° to 200°F (N Series); 5° to 120°F (B Series)

Feature external pilot, wide range of flow, and low-friction breakaway. Can be run unlubricated.

3FEM9

3FDU9

Port Size (in.)	Cv	Max. Operating (psi)	Pilot Port Size NPT (in.)	Mfr. Model	Item No.
2-Way, Normally Closed, Single Air Pilot					
⅜ Inlet, ½ Exhaust	3.6	140 psi	¼	N31431091	**3FEM8**
½ Inlet, ½ Exhaust	3.8	140 psi	¼	N31441091	**3FEM9**
¾ Inlet, 1 Exhaust	9.3	140 psi	¼	N31461091	**3FEN1**
1 Inlet, 1 Exhaust	9.3	140 psi	¼	N31471091	**3FEN2**
1½ Inlet, 1½ Exhaust	23.3	140 psi	¼	N32491091	**3FEN4**
3-Way, 2-Position, Normally Open, Single Air Pilot					
⅜ Inlet, ½ Exhaust	3.6	140 psi	¼	N37431091	**3FEP4**
½ Inlet, ½ Exhaust	3.8	140 psi	¼	N37441091	**3FEP5**
¾ Inlet, 1 Exhaust	9.3	140 psi	¼	N37461091	**3FEP6**
1 Inlet, 1¼ Exhaust	9.3	140 psi	¼	N37471091	**3FEP7**
1¼ Inlet, 1½ Exhaust	23.3	140 psi	¼	N38481091	**3FEP8**
1½ Inlet, 1½ Exhaust	23.3	140 psi	¼	N38491091	**3FEP9**
3-Way, 2-Position, Normally Closed, Single Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145 psi	10-32 UNF	B3K0000XXC	**3FDT5**
¼ Inlet, ¼ Exhaust	1.4	145 psi	⅛	B5K1000XXC	**3FDT7**
⅜ Inlet, ⅜ Exhaust	2.7	145 psi	⅛	B6X2000XXA	**3FDT8**
⅜ Inlet, ½ Exhaust	3.6	140 psi	¼	N35431091	**3FEN6**
½ Inlet, ½ Exhaust	3.8	140 psi	¼	N35441091	**3FEN7**
½ Inlet, ½ Exhaust	5.9	145 psi	⅛	B7X3000XXA	**3FDT9**
¾ Inlet, ¾ Exhaust	7.0	145 psi	⅛	B8X4000XXA	**3FDU1**
¾ Inlet, 1 Exhaust	9.3	140 psi	¼	N35461091	**3FEN8**
1 Inlet, 1¼ Exhaust	9.3	140 psi	¼	N35471091	**3FEN9**
1¼ Inlet, 1½ Exhaust	23.3	140 psi	¼	N36481091	**3FEP1**
1½ Inlet, 1½ Exhaust	23.3	140 psi	¼	N36491091	**3FEP2**

Port Size (in.)	Cv	Max. Operating (psi)	Pilot Port Size NPT (in.)	Mfr. Model	Item No.
4-Way, 2-Position, Single Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145 psi	10-32 UNF	B330000XXC	**3FDR9**
¼ Inlet, ¼ Exhaust	1.4	145 psi	10-32 UNF	B531000XXC	**3FDT1**
⅜ Inlet, ⅜ Exhaust	2.7	145 psi	⅛	B632000XXA	**3FDT2**
½ Inlet, ½ Exhaust	5.9	145 psi	⅛	B733000XXA	**3FDT3**
¾ Inlet, ¾ Exhaust	7.0	145 psi	⅛	B834000XXA	**3FDT4**
4-Way, 2-Position, Double Air Pilot					
⅛ Inlet, ⅛ Exhaust	0.75	145 psi	10-32 UNF	B340000XXC	**3FDU2**
¼ Inlet, ¼ Exhaust	1.4	145 psi	⅛	B541000XXC	**3FDU3**
⅜ Inlet, ⅜ Exhaust	2.7	145 psi	⅛	B642000XXA	**3FDU4**
½ Inlet, ½ Exhaust	5.9	145 psi	⅛	B743000XXA	**3FDU5**
¾ Inlet, ¾ Exhaust	7.0	145 psi	⅛	B844000XXA	**3FDU6**
4-Way, 3-Position, Double Air Pilot, All Ports Blocked					
⅛ Inlet, ⅛ Exhaust	0.6	145 psi	10-32 UNF	B380000XXC	**3FDU7**
¼ Inlet, ¼ Exhaust	1.1	145 psi	⅛	B581000XXC	**3FDU9**
⅜ Inlet, ⅜ Exhaust	2.1	145 psi	⅛	B682000XXA	**3FDV1**
½ Inlet, ½ Exhaust	5.7	145 psi	⅛	B783000XXA	**3FDV2**
¾ Inlet, ¾ Exhaust	6.6	145 psi	⅛	B884000XXA	**3FDV3**

4EY60

2G635

4KP81

2F907

2F895

ARO®

Sleeve, Shuttle, Quick Exhaust, Miniature, and Heavy-Duty Valves

- Temp. range: 32° to 160°F

Sleeve Valves—Inline valves allow 1-handed exhausting of compressed air lines using On/Off control. When exhaust ports are closed, the air line opens to actuate the air device. Sliding the sleeve in the opposite direction opens exhaust ports and shuts off the air supply.

Shuttle Valves—Connect 2 different inputs so that only 1 output is on at a time. 10 psi min. required to effect shuttle change.

Quick Exhaust Valves—Increase cylinder speed by providing quick release of exhausting air.

Miniature Air Pilot Directional Valve—Compact mini valve can be operated remotely using an air pilot signal. Shifts back to original position when signal is removed.

Miniature Manual and Mechanical Valves, Heavy Duty Composite Limit Valves, and Actuating Arms—Valves can be plumbed as normally passing, nonpassing, or multipurpose. 3-way, 2-position.

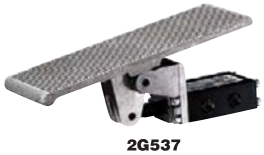
Port Size (in.)	Actuator/Return	Max. Operating (psi)	Cv	CFM	Mfr. Model	Item No.
Sleeve Valve						
⅛ NPT	Manual	200	0.4	14.5	600-1	**4EY59**
¼ NPT	Manual	200	1.0	36	600-2	**4EY60**
⅜ NPT	Manual	200	1.7	59	600-3	**4EY61**
Shuttle Valve						
⅛ NPT	—	200	0.7	—	SV10-C	**2G635**
¼ NPT	—	200	0.7	—	SV20-C	**2G637**
Quick Exhaust						
Cyl ⅛ in, Inlet ⅛ in, Exh ¼ in	—	125 psi	0.195	—	EV125	**4KP81**
Exh ⅜ in, Inlet ¼ in, Cyl ¼ in	—	125 psi	0.195	—	EV250	**4KP82**
Exh ⅜ in, Inlet ⅜ in, Cyl ⅜ in	—	125 psi	0.195	—	EV375	**4KP83**

4LB49

2F919

Port Size (in.)	Actuator/Return	Max. Operating (psi)	Cv	CFM	Mfr. Model	Item No.
Miniature Pilot and Mechanical Valve						
⅛	Pilot/Spring	150 psi	0.2	4	206-C	**1XWU1**
Miniature Manual and Mechanical Valve						
—	Roller Lever/Spring		0.2	—	203-C	**2F895**
	Roller Lever/Spring		0.2	—	202-C	**4LB50**
⅛ NPT	Ball Roller/Spring	150	0.2	7.5	213-C	**2F901**
	Button/Spring	150	0.2	7.5	224-C	**2F907**
	Fingertip Lever/Spring	150	0.2	7.5	201-C	**2F893**
	Pin Plunger/Spring	150	0.2	7.5	209-C	**2F897**
	Plunger/Spring	150	0.2	7.5	214-C	**2F903**
	Roller/Spring	150	0.2	7.5	212-C	**4LB52**
	Toggle/Manual	150	0.2	7.5	223-C	**2F905**
5⁄32 Tubing	Button/Spring	150	0.1	4	224-2-C	**4LB46**
	Fingertip Lever/Spring	150	0.1	4	201-2-C	**4LB44**
	Long Roller Lever/Spring	150	0.1	4	203-2-C	**4LB47**
	Pin Plunger/Spring	150	0.1	4	209-2-C	**4LB48**
	Plunger/Spring	150	0.1	4	214-2-C	**4LB49**
	Retained Toggle/Manual	150	0.1	4	223-2-C	**4LB45**
	Roller/Spring	150	0.1	4	212-2-C	**4LB53**
	Roller Lever/Spring	150	0.1	4	202-2-C	**4LB51**
Heavy-Duty Composite Limit Valves						
⅛ NPT	Clockwise/Spring	150	0.2	7.5	400-A	**2F919**
	Clockwise and Counterclockwise/Spring	150	0.2	7.5	402-A	**2F923**
	Counterclockwise/Spring	150	0.2	7.5	401-A	**2F921**
5⁄32 Tubing	1-Way Clockwise/Spring	150	0.1	4	400-1-A	**4LB54**
	1-Way Counterclockwise/ Spring	150	0.1	4	401-1-A	**4LB55**
	Clockwise and Counterclockwise/Spring	150	0.1	4	402-1-A	**4LB56**
Actuating Arms Used with Heavy-Duty Limit Valves (1 Required for Each Valve)						
Adjustable Roller Lever					450	**2F929**
Nylon Roller					447	**2F925**
Rod Lever					449	**2F927**

2G529



2G537

2G515

4ZJ91

ARO

3- and 4-Way Heavy-Duty Manual and Mechanical Power Valves

Port Size (in.)	Actuator/Return	Cv	Temp. Range	Max. CFM	Valve Max. Pressure Rating	Mfr. Model	Item No.
3-Way/2-Position							
⅛ NPT	Button/Manual	0.4	-10° to 180°F	16 cfm	150 psi	5030-12	**2F941**
	Button/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5030-02	**2F933**
	Cam Stem/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5030-06	**2F937**
	Lever/Manual	0.4	-10° to 180°F	16 cfm	150 psi	5030-10	**2F939**
	Lever/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5030-01	**2F931**
5⁄32" Tube	Button/Spring	0.2	-25° to 200°F	7.5 cfm	150 psi	461-2	**1MLD8**
¼ NPT	Button/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E252HM	**2G527**
	Button/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E252HS	**2G529**
	Foot Pedal/Manual	0.7	32° to 160°F	26 cfm	150 psi	M252TM	**4EY63**
	Foot Pedal/Spring	0.7	32° to 160°F	26 cfm	150 psi	M252TS	**4EY70**
	Foot Pedal/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E252FS	**2G525**
	Lever/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E252LM	**2G531**
	Lever/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E252LS	**2G533**
	Roller Cam/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E252RS	**2G535**
	Treadle/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E252TM	**2G537**

‡ Can be used with MaxAir manifolds, sold separately on page 2550.

Port Size (in.)	Actuator/Return	Cv	Temp. Range	Max. CFM	Valve Max. Pressure Rating	Mfr. Model	Item No.
4-Way/2-Position							
—	Foot Pedal/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E212FS	**2G509**
	Foot Pedal/Spring	0.7	32° to 160°F	26 cfm	150 psi	M212TS	**4EY75**
	Lever/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E212LM	**2G515**
	Lever/Manual	0.7	15° to 122°F	26 cfm	140 psi	M212LM-R	**4LB42** ‡
	Lever/Manual	0.7	15° to 122°F	26 cfm	140 psi	M212LM	**1MLE1**
	Lever/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E212LS	**2G517**
	Lever/Spring	0.7	15° to 122°F	26 cfm	140 psi	M212LS-R	**4LB43** ‡
⅛ NPT	Button/Manual	0.4	-10° to 180°F	16 cfm	150 psi	5040-12	**2F953**
	Button/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5040-02	**2F945**
	Cam Stem/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5040-06	**2F949**
	Lever/Manual	0.4	-10° to 180°F	16 cfm	150 psi	5040-10	**2F951**
	Lever/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5040-01	**2F943**
	Roller Cam/Spring	0.4	-10° to 180°F	16 cfm	150 psi	5040-05	**2F947**
¼ NPT	Button/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E212HM	**2G511**
	Button/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E212HS	**2G513**
	Foot Pedal/Manual	0.7	32° to 160°F	26 cfm	150 psi	M212TM	**4EY64**
	Foot Treadle/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E212TM	**2G521**
	Lever/Spring	0.7	15° to 122°F	26 cfm	140 psi	M212LS	**1MLD9**
	Roller Cam/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E212RS	**2G519**
	Rotary Lever/Manual	1.2	15° to 122°F	40 cfm	140 psi	M112LR	**4YTF4**
⅜ NPT	Foot Pedal/Spring	2.3	-10° to 180°F	83 cfm	150 psi	K213FS	**4HN64**
	Foot Treadle/Manual	2.3	-10° to 180°F	83 cfm	150 psi	K213TM	**4HN67**
	Lever/Manual	2.3	-10° to 180°F	83 cfm	150 psi	K213LM	**4HN65**
	Lever/Spring	2.3	-10° to 180°F	83 cfm	150 psi	K213LS	**4HN66**
	Rotary Lever/Manual	2.0	15° to 122°F	65 cfm	140 psi	M113LR	**4YTF5**
½ NPT	Rotary Lever/Manual	2.4	15° to 122°F	85 cfm	140 psi	M114LR	**4YTF6**
4-Way/3-Position							
—	Rotary Lever/Manual	1.2	15° to 122°F	40 cfm	140 psi	M512LR	**4ZJ90**
	Rotary Lever/Manual	2.0	15° to 122°F	65 cfm	140 psi	M513LR	**4ZJ91**
	Rotary Lever/Manual	2.4	15° to 122°F	85 cfm	140 psi	M514LR	**4ZJ92**
¼ NPT	Lever/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E512LM	**2G541**
	Lever/Manual	0.7	-10° to 180°F	26 cfm	150 psi	E612LM	**2G543**
	Lever/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E312LS	**2G539**
	Lever/Spring	0.7	-10° to 180°F	26 cfm	150 psi	E712LS	**2G545**
⅜ NPT	Foot Treadle/Manual	2.3	-10° to 180°F	83 cfm	150 psi	K513TM	**4HN70**
	Lever/Manual	2.3	-10° to 180°F	83 cfm	150 psi	K513LM	**4HN69**
	Lever/Spring	2.3	-10° to 180°F	83 cfm	150 psi	K313LS	**4HN68**

Port Size (in.)	Actuator/Return	Mfr. Model	Item No.
Footguard			
Mfr. No. E212FS, K213 FS and E252FS Only		20965-1	**2F899**

3NA99

3NB18

3NA97

ARO

3- and 4-Way Manual, Pilot, and Mechanical Light-Duty Circuitry Valves

- Max. operating pressure: 150 psi
- Temp. range: 32° to 160°F

Light-duty actuating directional control valves power devices such as cylinders, slides, or gates. Compact body is aluminum bar construction, providing light weight. ⅛" and ¼" port valves.

Valve Port Size	Actuator/Return	Cv	Max. CFM	Mfr. Model	Item No.
3-Way/2-Position					
⅛ in	Button/Spring	0.2	8 cfm	M291HS-10	**3NA99**
	Button/Spring with Detent	0.2	8 cfm	M291HS-15	**3NB10**
	Button/Spring	0.2	7 cfm	M251HS	**3NB17**
	Button/Spring without Guard	0.2	8 cfm	M291HS-11	**3NB11**
	Turn Selector/Manual	0.2	8 cfm	M291LS-10	**3NB13**
	Long Knob Selector/Manual	0.2	8 cfm	M291LS-11	**3NB14**
	Roller/Spring	0.2	7 cfm	M251RS	**3NB15**
	Toggle/Maintained	0.2	7 cfm	M251LS	**3NB16**
⅛ in-NPT	Remote Pilot/Spring	0.19	7 cfm	M251PS	**4YTE8**
¼ in	Button/Spring	0.7	26 cfm	M252HS-10	**3NA87**
	Button/Spring with Detent	0.7	26 cfm	M252HS-15	**3NA88**
	Button/Spring with Guard	0.7	26 cfm	M252HS-11	**3NA89**
	Turn Selector/Manual	0.7	26 cfm	M252LS-10	**3NA91**
	Long Knob Selector/Manual	0.7	26 cfm	M252LS-11	**3NA92**
4-Way/2-Position					
⅛ in	Button/Spring	0.2	9 cfm	M211HS	**3NB20**
	Roller/Spring	0.2	9 cfm	M211RS	**3NB18**
	Toggle/Maintained	0.2	9 cfm	M211LS	**3NB19**
⅛ in-NPT	Remote Pilot/Spring	0.19	9 cfm	M211PS	**4YTE9**
¼ in	Button/Spring	0.7	26 cfm	M212HS-10	**3NA93**
	Extended Push Button/Spring	0.7	26 cfm	M212HS-11	**3NA95**
	Turn Selector/Manual	0.7	26 cfm	M212LS-10	**3NA97**
	Long Knob Selector/Manual	0.7	26 cfm	M212LS-11	**3NA98**

Item	For Use With Mfr. Model Number	Item No.
Replacement Parts		
Roller Lever Attachment	M211xx Models, M251xx Models	**4YTF7**
Ball Plunger Attachment		**4YTF8**
Air Pilot Attachment		**4YTF9**
Finger Button Attachment		**4YTG1**

6JJ54

Premair Valves

ARO

- Max. operating pressure: 125 psi
- Max. temp. range: 32° to 125°F
- ⅛" NPT port
- 0.144 Cv
- 6.9 cfm
- 24" lead wires

2-position, direct-acting valves can be stacked or used as stand-alone units. Feature solenoid/spring actuator/return, lead wire connection, and standard manual override. Stacking End Plate Kit 6JG85 required for each 3- and 4-way stack.

Description	120VAC COIL Mfr. Model	120VAC COIL Item No.	24VDC COIL Mfr. Model	24VDC COIL Item No.	12VDC COIL Mfr. Model	12VDC COIL Item No.
3-Way Body Ported	P251SS-120-A	**6JJ54**	P251SS-024-D	**6JJ53**	P251SS-012-D	**6JJ52**
3-Way Stacking	P261SS-120-A	**6JJ57**	P261SS-024-D	**6JJ56**	—	—
4-Way Body Ported	P211SS-120-A	**6JJ45**	P211SS-024-D	**6JJ44**	P211SS-012-D	**6JJ43**
4-Way Body Ported with Speed Control	P211SC-120-A	**6JJ42**	P211SC-024-D	**6JJ41**	P211SC-012-D	**6JJ40**
4-Way Stacking without Speed Control	P221SS-120-A	**6JJ51**	P221SS-024-D	**6JJ50**	—	—
4-Way Stacking with Speed Control	P221SC-120-A	**6JJ48**	P221SC-024-D	**6JJ47**	—	—
3- and 4-Way Stacking End Plate Kit	P114400	**6JG85**	—	—	—	—

Miniature Direct-Acting Solenoid Valves and Coils

ARO

Valves—Suitable for air or inert gas. 3-way, 2-position electric-to-air interface valves are solenoid-actuated with spring return and have sufficient flow for cylinders 1" dia. and smaller. Low-watt models draw 0.94W.

- **Max. operating pressure: 150 psi, except 115 psi for Low-Watt coils**
- **Max. temp. range: 0° to 122°F**

Note: Coils sold separately on this page.

Pipe Size	Voltage	Cv	CFM	Mfr. Model	Item No.
Body Ported, Normally Nonpassing Valves					
⅛ in	12V DC	0.062	2.2	CAT33P-012-D	**2G485**
	24V DC	0.062	2.2	CAT33P-024-L	**4KB43**
	120V AC	0.062	2.2	CAT33P-120-A	**2G487**
	No Coil	0.062	2.2	CAT33P-000-N	**2G483** *
¼ in	12V DC	0.2		CAT66P-012-D	**4HN46**
	24V DC	0.2	7.0	CAT66P-024-D	**4HN47**
	24V DC	0.062	2.2	CAT66P-024-L	**4KB45**
	120V AC	0.2	7.0	CAT66P-120-A	**4HN48**
	No Coil	0.2	7.0	CAT66P-000-N	**4KP78** *
⅛ in	12V DC	0.056	2.0	CAT44P-012-D	**2G497**
	120V AC	0.056	2.0	CAT44P-120-A	**2G499**
¼ in	12V DC	0.2	7.0	CAT88P-012-D	**4HN52**
	24V DC	0.2	7.0	CAT88P-024-D	**4HN53**
	120V AC	0.2	7.0	CAT88P-120-A	**4HN54**
Stackable, Normally Nonpassing Valves					
⅛ in	12V DC	0.048	1.8	CAT33S-012-D	**2G491**
	24V DC	0.048	1.8	CAT33S-024-L	**4KB47**
	120V AC	0.048	1.8	CAT33S-120-A	**2G493**
¼ in	12V DC	0.2	7.0	CAT77S-012-D	**4HN49**
	24V DC	0.2	7.0	CAT77S-024-D	**4HN50**
	24V DC	0.062	2.2	CAT77S-024-L	**4KB48**
	120V AC	0.2	7.0	CAT77S-120-A	**4HN51**

*** Coils sold separately on this page.***

Voltage	Mfr. Model	Item No.
22mm Replacement Solenoid Coils for ARO ⅛" Valves		
24V AC/12V DC	116218-38	**4HN40**
24V DC	116218-39	**2F793**
120V AC	116218-33	**4HN39**
240V AC	116218-35	**2F789**
30mm Replacement Solenoid Coils for ARO ¼" Valves		
12V DC	119690-38	**4KP76**
24V DC	119690-39	**4KP77**
120V AC	119690-33	**4KP73**
240V AC	119690-35	**4KP74**

Coils and Connectors—Total coil rating is 311°F, which includes heat rise. AC or DC coils can be interchanged on same solenoid stem. 1 connector required for each coil.

- **Max. temp. range: 0° to 122°F**
- **100% duty cycle**

Hazardous Location Solenoid Coils—Coils fit on the same 22mm armature assembly used by Alpha-, MaxAir-, CAT-, H-, and K-series ARO brand valves available on this page and pages 2550 to 2551. For use in areas where air contains combustible dust or chemical fumes.

- **Max. temp. range: 0° to 311°F**
- **100% duty cycle coil insulation type**

Description	Voltage	Mfr. Model	Item No.
22mm Connectors for ARO ⅛" Valves			
Without Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CSN	**2G505**
With 18" Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CDW	**2G501**
With 36" Molded Cable	120V AC, 240V AC/12V DC, 24V DC	CHW	**2G503**
With Indicator Light, 36" Leads	120V AC	CHL-120	**4KB60**
With Indicator Light, 36" Leads	24V DC	CHL-024	**4KB61**
30mm Connectors for ARO ¼" Valves			
Without Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CSN-30	**4HN57**
With 18" Lead Wires	120V AC, 240V AC/12V DC, 24V DC	CDW-30	**4HN55**
With 36" Molded Cable	120V AC, 240V AC/12V DC, 24V DC	CHW-30	**4HN56**

Description	Mfr. Model	Item No.
Stacking Kits for ¼" Port Mini Solenoid Valves 4HN49, 4HN50, 4KB48, 4HN51		
2 Station	119698-2	**1MLD3**
3 Station	119698-3	**1MLD4**
4 Station	119698-4	**1MLD5**
5 Station	119698-5	**1MLD6**
6 Station	119698-6	**1MLD7**
Stacking Kits for ⅛" Port Mini Solenoid Valves 2G491, 4KB47, 2G493		
2 Station	116345-2	**1MLC7**
3 Station	116345-3	**1MLC8**
4 Station	116345-4	**1MLC9**
6 Station	116345-6	**1MLD2**

Voltage	Inrush Amps	Holding Amps	Mfr. Model	Item No.
Hazardous Location Solenoid Coils for ⅛" Ported Valves				
120V AC	0.08 A	0.05 A	114772-33	**4KB33**
24V DC	0.4 A	0.3 A	114772-39	**4KB34**

4HN48

4HN39

2G503

Compact Solenoid Valves

ARO

- **Max. operating pressure: 115 psi**
- **Max. temp. range: 0° to 122°F**
- **18mm wide, ⅛" NPT ported**

Feature a standard 1-touch push override and require 1 solenoid connector, sold separately, per coil.

Air Valve Type	Actuator/Return	Cv	CFM	120VAC COIL Mfr. Model	120VAC COIL Item No.	24VDC COIL Mfr. Model	24VDC COIL Item No.	12VDC COIL Mfr. Model	12VDC COIL Item No.
⅛" Manifold Mounted Valves									
4-Way, 2-Position	Solenoid/Spring	0.3	30	M819SS-120-A	**4KB49**	M819SS-024-D	**4KB50**	—	—
4-Way, 2-Position	Solenoid/Solenoid	0.3	30	M819SD-120-A	**4KB51**	M819SD-024-D	**4KB52**	—	—
⅛ in Body Ported Solenoids									
4-Way, 2-Position	Solenoid/Spring	0.7	30	M812SS-120-A	**4TR81**	M812SS-024-D	**4TR80**	M812SS-012-D	**4TR79**
4-Way, 2-Position	Solenoid/Solenoid	0.7	30	M812SD-120-A	**4TR78**	M812SD-024-D	**4TR77**	M812SD-012-D	**4TR76**
⅛ in Body Ported Solenoids, Closed Center Position									
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M813SD-120-A	**4TR84**	M813SD-024-D	**4TR83**	M813SD-012-D	**4TR82**
⅛ in Body Ported Solenoids, Open Center Position									
4-Way, 3-Position	Solenoid/Solenoid	0.5	21	M817SD-120-A	**4TR87**	M817SD-024-D	**4TR86**	M817SD-012-D	**4TR85**

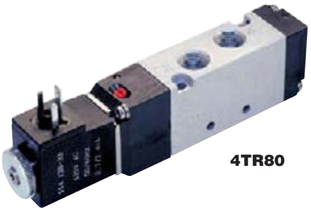
No. of Stations*	Mfr. Model	Item No.
Manifolds for Body Ported Valves		
2	SML81N-02	**4TR91**
4	SML81N-04	**4TR92**

*** When using an odd number of stations, Blanking Plate 2F865 must be used. (sold separately on Grainger.com®)***

No. of Stations*	Mfr. Model	Item No.
Manifolds for Manifold Mounted Valves		
2	SMH81N-02	**4KB53**
4	SMH81N-04	**4KB54**
8	SMH81N-08	**4KB56**
10	SMH81N-10	**4KB57**

Description	Mfr. Model	Item No.
Solenoid Connectors		
Connector, 16mm, 39" Molded Leads	CHW6	**4TR74**
Connector with Indicator Light, 16mm, 39" Leads, 24VDC	CHL6-024	**4KB58**
Connector with Indicator Light, 16mm, 39" Leads, 120VAC	CHL6-120	**4KB59**
Connector, 16mm DIN, Strain Relief	CSN6	**4TR75**

4KB51


4TR80

Manifold Solenoid Valves

ARO

- Operating pressure range: 50 to 150 psi
- Temp. range: 0° to 180°F
- 1.2 Cv
- Up to 600 cycles/min.
- Uses 22mm coils

Offer easy valve removal and replacement. Can be used with vacuum with external pilot supply.

Note: When operating below 50 psi, Low-Pressure Kit 4HN96 must be used.

Note: Coils and connectors available separately, this page.

Pipe Size	Actuator/Return	Voltage	Mfr. Model	Item No.
Valves, 4-Way, 2-Position				
¼ in	Solenoid/Spring	12V DC	A249SS-012-D	**2G443**
	Solenoid/Spring	24V DC	A249SS-024-D	**4XT40**
	Solenoid/Spring	120V AC	A249SS-120-A	**2G445**
	Solenoid/Solenoid	120V AC	A249SD-120-A	**2G439**
Valves, 4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral)				
¼ in	Solenoid/Solenoid	120V AC	A349SD-120-A	**2G463**
Accessories for Compact Stacking Power Valves				
Low Pressure Kit			119306	**4HN96**

Description	Mfr. Model	Item No.
Valve Manifolds		
2-Station Valve Manifold	118605-2	**2F833**
4-Station Valve Manifold	118605-4	**2F835**
6-Station Valve Manifold	118605-6	**2F837**
8-Station Valve Manifold	118605-8	**2F839**
Station Blanking Kit	118612	**2F841**
Dual-Speed Control Kit	118618	**2F843**

2G445

Body-Ported High-Flow Solenoid Valves

ARO

4HN63

2G555

2G553

- Max. temp. range: -10° to 180°F
- 100% duty cycle
- Uses 22mm coils

Prelubed units can operate without air line lubrication. 1 connector required for each coil; each is its own junction box with molded connectors and gaskets to protect electrical connections. Total coil rating is 211°F which includes heat rise. 4-way K-series valves have solenoid override for easy means of setting up and troubleshooting circuits without power to the solenoids.

Note: 22mm coils and connectors available separately, see page 2549.

Pipe Size	Actuator/Return	Voltage	Max. Operating (psi)	CFM	Cv	Mfr. Model	Item No.	
3-Way, 2-Position (H Series)								
⅜ in	Solenoid/Spring	120V AC	30 to 150	81	2.3	H253SS-120-A	**4HN60**	
	Solenoid/Spring	No Coil	30 to 150	81	2.3	H253SS-000-N	**4HN58**	*
½ in	Solenoid/Spring	120V AC	30 to 150	85	2.4	H254SS-120-A	**4HN63**	
	Solenoid/Spring	No Coil	30 to 150	85	2.4	H254SS-000-N	**4HN61**	*
4-Way, 2-Position (K Series)								
½ in	Solenoid/Solenoid	120V AC	20 to 150	90	2.6	K214SD-120-A	**2G555**	
	Solenoid/Spring	120V AC	50 to 150	90	2.6	K214SS-120-A	**2G553**	
¾ in	Solenoid/Spring	120V AC	50 to 150	270	7.5	K216SS-120-A	**2G557**	
4-Way, 3-Position (K Series)								
⅜ in	Solenoid/Solenoid	120V AC	60 to 150	83	2.3	K313SD-120-A	**1XWU4**	
½ in	Solenoid/Solenoid	120V AC	60 to 150	90	2.57	K314SD-120-A	**1XWU5**	

** Order coils separately.*

MaxAir Solenoid and Pilot Valves

ARO

4KA88

4KA92

- 100% duty cycle
- Uses 22mm coils

Note: 1 connector required for each coil. See page 2549 for 22mm solenoid coils and connectors.

Solenoid Valves—Compact, lightweight aluminum valves have locking or nonlocking override adjustments for simple setup and troubleshooting. Use alone or mount to manifolds (sold separately) when multiple valves are needed in a limited space.

- Max. operating pressure: 115 psi
- Temp. range: 15° to 122°F
- Buna N seals standard

Pilot Valves—Light-duty directional control valves power devices such as cylinders, slides, or gates. Compact, aluminum bar construction.

- Operating pressure range: 45 to 140 psi
- Temp. range: 15° to 122°F

Pipe Size	CFM	Cv	120 VAC Mfr. Model	120 VAC Item No.	24 VDC Mfr. Model	24 VDC Item No.
3-Way, 2-Position, Solenoid/Spring						
¼ in	26	0.7	M252SS-120-A	**4YTG2**	M252SS-024-D	**4YTG3**
⅜ in	61	1.65	M253SS-120-A	**4YTG4**	M253SS-024-D	**4YTG5**
½ in	150	4.32	M254SS-120-A	**4YTG6**	M254SS-024-D	**4YTG7**

Pipe Size	Actuator/Return	CFM	Cv	120V AC Mfr. Model	120V AC Item No.	24V DC Mfr. Model	24V DC Item No.	No Coil Mfr. Model	No Coil Item No.
4-Way, 2-Position									
¼ in	Solenoid/Spring	26	0.7	M212SS-120-A	**4KA88**	M212SS-024-D	**4KA89**	M212SS-000-N	**4KA90**
	Solenoid/Solenoid	26	0.7	M212SD-120-A	**4KA91**	M212SD-024-D	**4KA92**	M212SD-000-N	**4KA93**
⅜ in	Solenoid/Spring	61	1.65	M213SS-120-A	**4KA94**	M213SS-024-D	**4KA95**	M213SS-000-N	**4KA96**
	Solenoid/Solenoid	61	1.65	M213SD-120-A	**4KA97**	M213SD-024-D	**4KA98**	M213SD-000-N	**4KA99**
½ in	Solenoid/Spring	150	4.32	M214SS-120-A	**4KB10**	M214SS-024-D	**4KB11**	M214SS-000-N	**4KB12**
	Solenoid/Solenoid	150	4.32	M214SD-120-A	**4KB13**	M214SD-024-D	**4KB14**	M214SD-000-N	**4KB15**

NPT Port (in.)	CFM	Cv	Mfr. Model	Item No.
3-Way, 2-Position, Pilot Valves, Remote Pilot/Spring				
¼	26	0.7	M252PS	**4YTF1**
⅜	61	1.6	M253PS	**4YTF2**
½	150	4.3	M254PS	**4YTF3**

No. of Stations	¼" NPT PORT Mfr. Model	¼" NPT PORT Item No.	⅜" NPT PORT Mfr. Model	⅜" NPT PORT Item No.	½" NPT PORT Mfr. Model	½" NPT PORT Item No.
Manifold Kits						
2	M26M02-02	**4KB16**	M30M03-02	**4KB21**	M34M04-02	**4KB26**
4	M26M02-04	**4KB17**	M30M03-04	**4KB22**	M34M04-04	**4KB27**
6	M26M02-06	**4KB18**	M30M03-06	**4KB23**	M34M04-06	**4KB28**
8	M26M02-08	**4KB19**	M30M03-08	**4KB24**	M34M04-08	**4KB29**
10	M26M02-10	**4KB20**	M30M03-10	**4KB25**	M34M04-10	**4KB30**

For Use With	Mfr. Model	Item No.
Manifold Blanking Plates		
Port Sizes ¼ in NPT M26 Series Manifolds	M26MB	**4KB35**
Port Sizes ⅜ in NPT M30 Series Manifolds	M30MB	**4KB36**
Port Sizes ½ in NPT M34 Series Manifolds	M34MB	**4KB37**

Compact Stacking Solenoid and Pilot Valves

ARO

2G429

Assembled Valves with End Plate Kit

- Operating pressure range: 50 to 150 psi
- Temp. range: 0° to 180°F
- Uses 22mm coils

High flow capacity. Bonded and precision ground urethane-to-aluminum spool for wear resistance. Prelubed; can be operated without air line lubrication. Each stack of valves requires a stacking end plate kit 2G599, sold separately.

Note: When operating below 50 psi, Low Pressure Kit 4HN96 must be used.

Note: 1 connector required for each coil. Coils and connectors sold on page 2549.

Valve Port Size	Pipe Size	Actuator/Return	Coil	Mfr. Model	Item No.	
4-Way, 2-Position, 68 cfm, 1.9 Cv						
¼ in	—	Pilot/Spring	—	A222PS	**2F989**	†
		Pilot/Pilot	—	A222PD	**2F987**	†
—	¼ in	Solenoid/Spring	24VDC	A222SS-024-D	**4XT38**	
		Solenoid/Spring	120VAC	A222SS-120-A	**2G429**	
		Solenoid/Spring	—	A222SS-000-N	**2F997**	†
		Solenoid/Solenoid	120VAC	A222SD-120-A	**2F995**	
4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral), 61 cfm, 0.7 Cv						
—	¼ in	Solenoid/Solenoid	120VAC	A322SD-120-A	**2G457**	
Accessories for Compact Stacking Power Valves						
Stacking End Plate Kit (1 kit required for each stack of valves)				MKP	**2G599**	
Isolation Plate				PTN	**2G601**	
Short L Mounting Bracket				116808	**2F807**	
Low Pressure Kit				119306	**4HN96**	

† Order coils separately.

Check and Needle Valves

ARO

4KE12

4KB94

- Max. operating pressure: 200 psi
- Operating temp. range: 0° to 200°F

Corrosion-resistant valve bodies are made of lightweight composite material. Threaded for panel mount. Lock rings secure set flow rate. Feature calibrated adjustment knob, 4-stage needle, color-coded micrometer, and zinc-plated pipe port inserts.

Check—Use to check or direct air in 1 direction.

Needle—Increase or decrease airflow in both directions, then set with red lock ring.

Inlet Port	Outlet Port	CFM	Mfr. Model	Item No.
Check Valve				
⅛" NPT	⅛" NPT	—	104104-C01	**4KE10**
¼" NPT	¼" NPT	28	104104-C02	**4KE12**
⅜" NPT	⅜" NPT	58	104104-C03	**4KE14**
½" NPT	½" NPT	90	104104-C04	**4KE16**
Needle Valve				
⅛" NPT	⅛" NPT	—	104104-N01	**4KB92**
¼" NPT	¼" NPT	28	104104-N02	**4KB94**
⅜" NPT	⅜" NPT	58	104104-N03	**4KB96**
½" NPT	½" NPT	90	104104-N04	**4KB98**

ALPHA® ARO®

Compact Body-Ported Solenoid and Pilot Valves

- Operating pressure range: 50 to 150 psi on 2-position valves; 60 to 150 psi on 3-position valves
- Temp. range: 0° to 180°F
- Up to 600 cycles per minute
- Vacuum rated to 29 in./Hg (requires kit 4HN96, sold separately on page 2549)
- Uses 22mm coils

Body-ported Alpha valves are compact 5-ported valves. Can operate without air line lubrication. For use with air or inert gas.

Note: When operating below 50 psi, Low Pressure Kit 4HN96, sold on page 2549, must be used.

Note: 1 NEMA 4 connector required for each coil. Coil connectors and replacement coils are sold separately on page 2549.

Actuator/Return	Pilot Pressure	Voltage	CFM	Cv	Mfr. Model	Item No.	
4-Way, 2-Position							
Pilot/Pilot	20 psi	—	30	0.9	A211PD	**2F955**	
	20 psi	—	—	1.5	A212PD	**2F971**	
	20 psi	—	61	1.7	A213PD	**4KB32**	
Pilot/Spring	50 psi	—	30	0.9	A211PS	**2F957**	
	50 psi	—	—	1.5	A212PS	**2F973**	
	50 psi	—	61	1.7	A213PS	**4KB31**	
Solenoid/Solenoid	—	120V AC	30	0.9	A211SD-120-A	**2F963**	
	—	120V AC	50	1.5	A212SD-120-A	**2F979**	
	—	120V AC	61	1.7	A213SD-120-A	**2G551**	
	—	24V DC	50	1.5	A212SD-024-D	**4XT33**	
	—	24V DC	61	1.7	A213SD-024-D	**4XT35**	
	—	No Coil	30	0.9	A211SD-000-N	**2F959**	*
	—	No Coil	50	1.5	A212SD-000-N	**2F975**	*
Solenoid/Spring	—	120V AC	30	0.9	A211SS-120-A	**2F969**	
	—	120V AC	—	1.5	A212SS-120-A	**2F985**	
	—	120V AC	61	1.7	A213SS-120-A	**2G549**	
	—	12V DC	30	0.9	A211SS-012-D	**2F967**	
	—	12V DC	50	1.5	A212SS-012-D	**2F983**	
	—	24V DC	30	0.9	A211SS-024-D	**4XT32**	
	—	24V DC	—	1.5	A212SS-024-D	**4XT34**	
	—	24V DC	61	1.7	A213SS-024-D	**4XT36**	
	—	No Coil	30	0.9	A211SS-000-N	**2F965**	*
	—	No Coil	—	1.5	A212SS-000-N	**2F981**	*
4-Way, 3-Position (Spring Centered, All Ports Blocked in Neutral)							
Solenoid/Solenoid	—	120V AC	50	1.4	A312SD-120-A	**2G451**	
	—	12V DC	50	1.4	A312SD-012-D	**2G449**	
	—	24V DC	50	1.4	A312SD-024-D	**4XT41**	
	—	No Coil	50	1.4	A312SD-000-N	**2G447**	*
4-Way, 3-Position (Spring Centered, Inlet Port Blocked, Cylinder Ports Open in Neutral)							
Solenoid/Solenoid	—	120V AC	50	1.4	A712SD-120-A	**2G469**	
	—	12V DC	50	4.32	A712SD-012-D	**2G467**	
	—	24V DC	50	1.4	A712SD-024-D	**4XT44**	
	—	No Coil	50	1.65	A712SD-000-N	**2G465**	*

** Order coils separately.*

2F981

2F985

ARO®

2-Hand Anti-Tie-Down Controls

4HN74

- Operating pressure: 50 to 125 psi

Note: These units provide only anti-tie-down logic function and not stroke-limiting devices. On machines with full revolution clutches and/or where repeat cycles can occur, approved safety and/or single-stroke devices must be used along with the anti-tie-down units.

Unassembled—Includes anti-tie-down control block, two 2¼"-dia. push-button valves, 10 ft. of 5/32" tubing, and fittings. Order pilot valve 2F973, sold on page 2551.

Assembled—Includes all internal connections ready to install. 2¼"-dia. valves. External supply and output to machine made by 5/32" (4mm) instant tube fittings. Do not use on any revolutionary press.

Description	Inlet Port	Outlet Port	Mfr. Model	Item No.
Unassembled Control Package	5/32" Tubing	5/32" Tubing	59003-842	**4HN74**
Assembled Control Package	5/32" Tubing	5/32" Tubing	59809	**4HN76**
Control Block Only	⅛" NPT	⅛" NPT	59191	**4HN75**

ARO® SPEEDAIRE®

Exhaust Port Flow Controls and Mufflers

4ZJ85

ARO

- Operating pressure: 0 to 250 psi
- Operating temp. range: -65° to 300°F

Speedaire—Provide an infinite variation of motoring airflow at an acceptable sound level. 40-micron sintered bronze sleeve with brass housing.

- Max. operating pressure: 300 psi
- Operating temp. range: 35° to 300°F

Valve Port Size	Mfr. Model	Item No.
ARO Flow Controls		
¼ in NPT	20313-2	**4ZJ85**
⅜ in NPT	20313-3	**4ZJ86**
½ in NPT	20313-4	**4ZJ87**
Speedaire® Flow Control Mufflers		
⅛ in NPT	1EJU2	**1EJU2**
¼ in NPT	1EJU3	**1EJU3**
⅜ in NPT	1EJU4	**1EJU4**
½ in NPT	1EJU5	**1EJU5**
¾ in NPT	1EJU6	**1EJU6**
1 in NPT	1EJU7	**1EJU7**

SPEEDAIRE®

Pneumatic Exhaust Mufflers

1A326

- Max. operating pressure: 300 psi
- Operating temp. range: 35° to 300°F, except 1EJX3 has 160°F max. temp.

40-micron porous sintered bronze element.

NPT Port (in.)	Hex (in.)	Item No.
10-32	5/16 in	**1EJX3**
⅛ in	7/16 in	**1A325**
¼ in	9/16 in	**1A326**
⅜ in	11/16 in	**1A327**
½ in	⅞ in	**1A328**
¾ in	1 1/16 in	**6F600**
1 in	1 ⅜ in	**6F601**

ARO®

Air Line Flow Controls

6ZC08

- Operating temp. range: 0° to 200°F
- Thermoplastic

Glass-reinforced valves provide free flow in 1 direction, controlled flow in opposite direction. Color-coded micrometer and calibrated adjustment knob. Ring lock keeps adjustment from accidentally moving. Panel-mount nut included.

Inlet Port	Outlet Port	Max. Operating Pressure (psi)	Mfr. Model	Item No.
ARO Thermoplastic				
⅛" NPT	⅛" NPT	—	104104-F01-G	**6ZC07**
¼" NPT	¼" NPT	200	104104-F02-G	**6ZC08**
⅜" NPT	⅜" NPT	200	104104-F03-G	**6ZC09**
½" NPT	½" NPT	200	104104-F04-G	**6ZC10**

1EJX1

SPEEDAIRE®

Silencer Mufflers

Greatly reduce noise levels on valves and prevent contamination.

Economy—50-mesh, stainless steel screen with glass-filled nylon housing.

Heavy-Duty—50-mesh self-cleaning stainless steel screen with aluminum shell.

NPT Port (in.)	Max. SCFM @ 100 psi	Max. Temp.	Hex (in.)	Item No.
Economy, 150 psi psi, 50 Microns				
⅛ M	20	120 °F	11/16 in	**1EJV9**
¼ M	33	120 °F	11/16 in	**1EJW1**
⅜ M	82	120 °F	1 ⅛ in	**1EJW2**
½ M	110	120 °F	1 ⅛ in	**1EJW3**
Heavy-Duty, 300 psi psi, 50 Microns				
⅛ M	20	160 °F	⅝ in	**1EJW4**
¼ M	33	160 °F	⅝ in	**1EJW6**
¼ F	33	160 °F	⅝ in	**1EJW7**
⅜ M	82	160 °F	1 in	**1EJW8**
⅜ F	82	160 °F	1 in	**1EJW9**
½ M	110	160 °F	1 in	**1EJX1**
½ F	110	160 °F	1 in	**1EJX2**

1EJT5

SPEEDAIRE®

Breather Vents

- Max. operating pressure: 150 psi
- Operating temp. range: 35° to 300°F

Low-profile vents insert easily into cylinders, gear boxes, and storage tanks. Prevent dirt and particles from entering open ports.

NPT Port (in.)	Hex (in.)	Item No.
⅛ in	7/16 in	**1EJT5**
¼ in	9/16 in	**1EJT6**
⅜ in	11/16 in	**1EJT7**
½ in	⅞ in	**1EJT8**
¾ in	1 1/16 in	**1EJT9**
1 in	1 ⅜ in	**1EJU1**

2F859

2CDP9

ARO

Cylinder Port Flow Control Valves

- Max. operating pressure: 150 psi

Screwdriver Adjustment—Right-angle flow control valves mount directly into cylinder port. Rugged, all-metal design. Dry thread sealant on male threads. Full 360° rotation for tubing alignment.

Thumb Screw Adjustment—Can be plumbed with threaded fitting; use push-to-connect tubing for fast installation.

Outlet Port	Inlet Port	Cv	Mfr. Model	Item No.
Screwdriver Adjustment				
⅛" NPT	⅛" NPT	0.3	119307-125	**2F849**
	¼" Push to Connect	0.3	119309-125	**2F859**
¼" NPT	¼" NPT	0.7	119307-250	**2F851**
	¼" Push to Connect	0.7	119309-250	**2F861**
⅜" NPT	⅜" NPT	1.9	119307-375	**2F853**
	⅜" Push to Connect	1.9	119309-375	**2F863**
½" NPT	½" NPT	2.8	119307-500	**2F855**
10-32 UNF	10-32 UNF	0.1	119307-103	**2F847**
	5/32" Push to Connect	0.1	119309-103	**2F857**
Thumb Screw Adjustment				
⅛" NPT	⅛" NPT	0.3	119308-125	**2CDP5**
	¼" Push to Connect	0.3	119310-125	**2CDP9**
¼" NPT	¼" NPT	0.7	119308-250	**2CDP6**
	¼" Push to Connect	0.7	119310-250	**2CDR1**
	⅜" Push to Connect	1.9	119310-255	**2CDR2**
⅜" NPT	⅜" NPT	1.9	119308-375	**2CDP7**
	⅜" Push to Connect	1.9	119310-375	**2CDR3**
½" NPT	½" NPT	2.8	119308-500	**2CDP8**

SMC

Speed, Flow, and In-Line Control Valves with Adjustable 1-Touch Fittings

- Pressure range: 15 to 145 psi
- Temp. range: 23° to 140°F
- Polybutylene body

Preapplied sealant and top-mounted hex nut/adjustment screw allows fast assembly and easy adjustment with a flat screwdriver. Use with nylon, soft nylon, and polyurethane tubing. Stainless steel models have a stainless steel stem, and can be used in washdown and clean-room applications. In-line valves include a hexagonal lock nut and retainer that prevents accidental needle loss. Elbows feature metered, 1-direction flow control.

Tube Size	Body Size	Nickel-Plated Brass Item No.
In-Line Speed Control Valves, Tube		
¼"	⅛"	**4DGV2**
¼"	¼"	**4DGV3**
¼"	⅜"	**4DGV5**
5/16"	¼"	**4DGV4**
5/16"	⅜"	**4DGV6**
⅜"	⅜"	**4DGV7**
⅜"	½"	**4DGV8**
½"	½"	**4DGV9**
4mm	⅛"	**4DGW1**
6mm	⅛"	**4DGW2**
6mm	¼"	**4DGW3**
6mm	⅜"	**4DGW5**
8mm	¼"	**4DGW4**
8mm	⅜"	**4DGW6**
10mm	⅜"	**4DGW7**
10mm	½"	**4DGW9**
12mm	⅜"	**4DGW8**
12mm	—	**4DGX1**

Tube Size	Pipe Size	Screw Adjustment, Tamper-Proof, Nickel-Plated Brass, Flow In Item No.	Screw Adjustment, Tamper-Proof, Nickel-Plated Brass, Flow Out Item No.
Flow Control Valves, Tube x NPT			
⅛"	⅛"	**5RTP5**	**5RTJ7**
⅛"	10-32 UNF	**5RTP1**	**5RTJ3**
5/32"	⅛"	**5RTP6**	**5RTJ8**
5/32"	¼"	**5RTR0**	**5RTK2**
5/32"	10-32 UNF	**5RTP2**	**5RTJ4**
3/16"	⅛"	**5RTP7**	**5RTJ9**
3/16"	¼"	**5RTR1**	**5RTK3**
3/16"	10-32 UNF	**5RTP3**	**5RTJ5**
¼"	⅛"	**5RTP8**	**5RTK0**
¼"	¼"	**5RTR2**	**5RTK4**
¼"	⅜"	**5RTR5**	**5RTK7**
¼"	10-32 UNF	**5RTP4**	**5RTJ6**
5/16"	⅛"	**5RTP9**	**5RTK1**
5/16"	¼"	**5RTR3**	**5RTK5**
5/16"	⅜"	**5RTR6**	**5RTK8**
⅜"	¼"	**5RTR4**	**5RTK6**
⅜"	½"	**5RTR8**	**5RTL0**
⅜"	⅜"	**5RTR7**	**5RTK9**
½"	½"	**5RTR9**	**5RTL1**
Flow Control Valves, Tube x R(PT)			
3.2mm	⅛"	**5RTT3**	**5RTL5**
3.2mm	M5 x 0.8	**5RTT0**	**5RTL2**
4mm	⅛"	**5RTT4**	**5RTL6**
4mm	¼"	**5RTT8**	**5RTN0**
4mm	M5 x 0.8	**5RTT1**	**5RTL3**
6mm	⅛"	**5RTT5**	**5RTL7**
6mm	¼"	**5RTT9**	**5RTN1**
6mm	⅜"	**5RTU3**	**5RTN5**
6mm	M5 x 0.8	**5RTT2**	**5RTL4**
8mm	⅛"	**5RTT6**	**5RTL8**
8mm	¼"	**5RTU0**	**5RTN2**
8mm	⅜"	**5RTU4**	**5RTN6**
10mm	⅛"	**5RTT7**	**5RTL9**
10mm	¼"	**5RTU1**	**5RTN3**
10mm	⅜"	**5RTU5**	**5RTN7**
10mm	½"	**5RTU7**	**5RTN9**
12mm	¼"	**5RTU2**	**5RTN4**
12mm	⅜"	**5RTU6**	**5RTN8**
12mm	½"	**5RTU8**	**5RTP0**

Tube Size	Pipe Size	Body Size	Nickel-Plated Brass, Elbows, Flow In Item No.	Nickel-Plated Brass, Elbows, Flow Out Item No.	Stainless Steel, Elbows, Flow In Item No.	Stainless Steel, Elbows, Flow Out Item No.
Speed Control Valves, Tube x NPT						
⅛"	⅛"	⅛"	**48J181**	**48J209**	**4DGX7**	**4DGX2**
5/32"	⅛"	⅛"	**48J182**	**48J210**	**4DGX8**	**4DGX3**
	¼"	¼"	**48J185**	**48J213**	—	**4DHC4**
3/16"	⅛"	⅛"	**4DGJ4**	**4DGP4**	—	**4DGX4**
	¼"	¼"	**4DGJ8**	**4DGP8**	—	—
¼"	⅛"	⅛"	**48J183**	**48J211**	**4DGY1**	**4DGX5**
	¼"	⅜"	**4DGK3**	**4DGR3**	**4DHD6**	**4DHC9**
	¼"	¼"	**48J186**	**48J214**	**4DGY5**	**4DHC6**
	⅜"	⅜"	**48J189**	**48J219**	**4DGY8**	**4DHD5**
5/16"	⅛"	⅛"	**48J184**	**48J212**	**4DGY2**	**4DGX6**
	¼"	⅜"	**4DGK4**	**4DGR4**	**4DHD7**	—
	¼"	¼"	**48J187**	**48J215**	—	**4DHC7**
	⅜"	⅜"	**48J190**	**48J217**	**4DGY9**	**4DHD3**
⅜"	¼"	⅜"	**4DGK5**	**4DGR5**	—	—
	¼"	¼"	**48J188**	**48J216**	**4DGY7**	**4DHC8**
	⅜"	⅜"	**48J191**	**48J218**	**4DGZ1**	**4DHD4**
	½"	½"	**48J192**	**48J220**	**4DGZ2**	**4DHD9**
½"	½"	½"	**48J193**	**48J221**	**4DGZ3**	**4DHE1**
Speed Control Valves, Tube x R(PT)						
4mm	⅛"	⅛"	**48J194**	**48J222**	—	—
	¼"	¼"	**48J198**	**48J226**	—	—
6mm	⅛"	⅛"	**48J195**	**48J223**	**4DGZ5**	**4DHE3**
	¼"	⅜"	**4DGN1**	**4DGU1**	**4DHA3**	**4DHF1**
	¼"	¼"	**48J199**	—	—	—
	⅜"	⅜"	**48J203**	—	—	**4DHF5**
8mm	⅛"	⅛"	**48J196**	**48J224**	—	—
	¼"	⅜"	**4DGN2**	—	—	**4DHF2**
	¼"	¼"	**48J201**	**48J228**	—	—
	⅜"	⅜"	**48J204**	**48J231**	—	**4DHF6**
10mm	⅛"	⅛"	**48J197**	**48J225**	—	—
	¼"	⅜"	**4DGN3**	**4DGU3**	—	**4DHF3**
	¼"	¼"	**48J202**	**48J229**	**4DHA2**	—
	⅜"	⅜"	**48J205**	**48J232**	—	**4DHF7**
	½"	½"	**48J207**	**48J234**	—	**4DHF9**
12mm	¼"	⅜"	**4DGN4**	**4DGU4**	—	**4DHF4**
	⅜"	⅜"	**48J206**	**48J233**	—	**4DHF8**
	½"	½"	**48J208**	**48J235**	—	**4DHG1**

5RTU9

5RTV1

SMC

Speed Exhaust Control Valves with 1-Touch Fittings

- Pressure range: 15 to 145 psi
- Temp. range: 23° to 140°F

Integrated quick exhaust valve and exhaust restrictor allow for high-speed cylinder operation. Design helps to remove moisture build-up at the actuator port. Nickel-plated brass construction.

Tube Size	Pipe Size	Item No.
5/32"	10-32 UNF	**5RTU9**
¼"	10-32 UNF	**5RTV0**
¼"	⅛"	**5RTV1**
¼"	¼"	**5RTV3**
5/16"	⅛"	**5RTV2**
5/16"	¼"	**5UPD5**
5/16"	⅜"	**5UPD8**
⅜"	⅛"	**5UPD6**
⅜"	¼"	**5UPD7**
⅜"	⅜"	**5UPD9**
⅜"	½"	**5UPE2**
½"	¼"	**5UPE0**
½"	⅜"	**5UPE1**
½"	½"	**5UPE3**

Tube Size	Pipe Size	Item No.
4mm	M3 x 0.5	**5UPE4**
4mm	M5 x 0.8	**5UPE5**
6mm	M5 x 0.8	**5UPE6**
6mm	⅛"	**5UPE7**
6mm	¼"	**5UPE9**
8mm	⅛"	**5UPE8**
8mm	¼"	**5UPF0**
8mm	⅜"	**5UPF3**
10mm	⅛"	**5UPF1**
10mm	¼"	**5UPF2**
10mm	⅜"	**5UPF4**
10mm	½"	**5UPF7**
12mm	¼"	**5UPF5**
12mm	⅜"	**5UPF6**
12mm	½"	**5UPF8**

legris

Function Fittings

- Metric valves have BSPP threads

Compact push-to-connect flow valves help ensure excellent performance of flow and are perfectly suited for reduced spaces. Nylon and nickel-plated brass construction, except where noted. Polypropylene push button and Buna nitrile elastomer seals for leak-free connections. For use with polyurethane, polyethylene, or PTFE tubing.

FLOW CONTROLS

Compact
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Adjustment screw controls airflow, while locking nut protects the flow setting from being changed due to tampering or vibration.

Swivel
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Allow access to vertical or angled tubing in restrictive installations.

In-Line
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Unidirectional airflow allows air to flow freely in through the flow control; metered out through the adjustment screw.

Miniature
- Pressure range: 14.5 to 145 psi
- Temp. range: 30° to 158°F

Specially designed for use with small-bore cylinders in very small pneumatic applications.

LOCKOUT VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: -4° to 160°F

Mount on a cylinder to cut off both supply and exhaust. Designed for maximum flow capacity in the open position. Brass material.

MINI BALL VALVES
- Max. range: 145 psi
- Temp. range: -4° to 176°F

Enable in-line pneumatic circuit opening and closing.

PILOTED NONRETURN VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: 23° to 140°F

Help protect equipment by blocking cylinder movement in a vertical or horizontal position. Valves allow the cylinder to stop in mid-stroke.

PNEUMATIC THRESHOLD SENSORS
- Pressure range: 43.5 to 116 psi
- Back pressure: 0.85 psi to 1 Bar
- Temp. range: 5° to 140°F

Detect the absence of pressure and translate it to a pneumatic output which emits a signal to pilot the next step. Sensors are compact and can be mounted on a cylinder or control valve on any pneumatic equipment to control the operation of the cylinder.

METER IN CHECK VALVES
- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Valves are compact, lightweight, and allow air to pass in 1 direction while blocking air flow in the other. 7 psi will overcome the spring pressure.

QUICK EXHAUST VALVES
- Pressure range: 10 to 150 psi
- Temp. range: 0° to 160°F

Help increase system efficiency and the cylinder speed by purging cylinder exhaust air at the cylinder port instead of at the control valve.

Looking for High-Pressure Fittings and Couplers
For more Pneumatic Tubing, see page 2621. Additional tubing products are available on **Grainger.com®**.

	Tube Size	Pipe Size	Item No.
Flow Controls, Compact, Meter Out			
BSPP x Tube			
	4mm	1/8"	1PFX1
	6mm	1/8"	1PFX2
	6mm	1/4"	1PFX3
	8mm	1/8"	1PFX4
	8mm	1/4"	1PFX5
	10mm	1/4"	1PFX6
	10mm	3/8"	1PFX7
BSPT x Tube			
	6mm	1/8"	19G982
	8mm	1/8"	19G983
	8mm	1/4"	19G984
	10mm	1/4"	19G985
	10mm	3/8"	19G986
	10mm	1/2"	19G987
	12mm	1/4"	19G988
	12mm	3/8"	19G989
	12mm	1/2"	19G990
MNPT x Tube			
	5/32"	1/8"	1PFX8
	5/32"	1/4"	1PFX9
	1/4"	1/8"	1PFY1
	1/4"	1/4"	1PFY2
	3/8"	1/4"	1PFY3
	3/8"	3/8"	1PFY4
Flow Controls, Compact, Knobless, Meter Out			
BSPP x Tube			
	4mm	1/8"	1DFB4
	6mm	1/8"	1DFB7
	6mm	1/4"	1DFB8
	8mm	1/8"	1DFC1
	8mm	1/4"	1DFC2
	8mm	3/8"	1DFN1
	10mm	1/4"	1DFN2
	10mm	3/8"	1DFN3
	10mm	1/2"	1DFN4
	12mm	3/8"	1DFN5
	12mm	1/2"	1DFN6
Metric Threads x Tube			
	4mm	M5	1DFB5
	6mm	M5	1DFB9
MNPT x Tube			
	1/8"	1/8"	1DDW9
	5/32"	1/8"	1DDW6
	1/4"	1/8"	1DDX1
	1/4"	1/4"	1DDX2
	5/16"	1/8"	1DDW7
	5/16"	1/4"	1DDW8
	3/8"	1/4"	1DDX3
	3/8"	3/8"	1DDX4
Tube x UNF			
	1/8"	10-32	1DDW4
	5/32"	10-32	1DFB6
	1/4"	10-32	1DDW5
Flow Controls, Swivel, Meter Out			
BSPP x Tube			
	6mm	1/8"	1DFN7
	6mm	1/4"	1DFN8
	8mm	1/8"	1DFN9
	8mm	1/4"	1DFP1
	8mm	3/8"	1DFP2
	10mm	1/4"	1DFP3
	12mm	3/8"	1DFP5
MNPT x Tube			
	1/4"	1/8"	1DDX5
	1/4"	1/4"	1DDX6
	3/8"	1/4"	1DDX7
	3/8"	3/8"	1DDX8
Flow Controls, In-Line, One Way			
Tube			
	5/32"	—	1PFZ7
	1/4"	—	1PFZ8
	3/8"	—	1PFZ9
	1/2"	—	1PGB1
	6mm	—	1DFP7
	8mm	—	1DFP8
	10mm	—	1DFP9
	12mm	—	1DFR1

	Tube Size	Pipe Size	Item No.
Flow Controls, Miniature, Control Flow Meter Out			
BSPP x Tube			
	6mm	1/8"	1PFY7
	8mm	1/4"	1PFY9
	8mm	3/8"	1PFZ1
BSPT x Tube			
	4mm	1/8"	19G991
	6mm	1/8"	19G992
	6mm	1/4"	19G993
	6mm	3/8"	19G994
	8mm	1/8"	19G995
	8mm	1/4"	19G996
	8mm	3/8"	19G997
MNPT x Tube			
	1/8"	1/8"	1PFZ4
	5/32"	1/8"	1PFZ3
	1/4"	1/8"	1PFZ5
	1/4"	1/4"	1PFZ6
	4mm	M5 x 0.8	1PFY5
	6mm	M5 x 0.8	1PFY8
Tube x UNF			
	1/4"	10-32	1PFZ2
	4mm	10-32	1PFY6
Lockout Valves			
BSPP x Tube			
	8mm	1/4"	1DFL5
	10mm	3/8"	1DFL7
NPT			
	—	1/8"	19G998
	—	1/4"	19G999
	—	1/2"	19H002
NPT x Tube			
	1/4"	1/8"	1DDY8
	1/4"	1/4"	1DDY9
	3/8"	3/8"	1DDZ1
	1/2"	1/2"	1DDZ2
Mini Ball Valve - Inline			
Tube			
	3/8 in	—	1PGB2
Mini Ball Valves With Vent			
MNPT x Tube			
	1/4 in	1/8 in	1PGB5
	1/4 in	1/4 in	1PGB6
	3/8 in	1/4 in	1PGB7
Mini Ball Valves With Vent - Inline			
Tube			
	1/4 in	—	1PGB3
	3/8 in	—	1PGB4
Piloted Non Return Valves			
BSPP x Tube			
	6mm	1/4"	19H024
	8mm	1/8"	19H025
	8mm	3/8"	19H027
	10mm	3/8"	19H028
	10mm	1/2"	19H029
	12mm	1/2"	19H030
Piloted Non Return Valves with Flow Regulator			
BSPP x Tube			
	6mm	1/8"	19H031
	6mm	1/4"	19H032
	8mm	3/8"	19H035
	10mm	3/8"	19H036
	10mm	1/2"	19H037
	12mm	1/2"	19H038
Pneumatic Threshold Sensors			
NPT x Tube			
	5/32" or 4mm	1/8"	19H011
	5/32" or 4mm	1/4"	19H012
	5/32" or 4mm	3/8"	19H013
	5/32" or 4mm	1/2"	19H014

	Pipe Size	Connection	Item No.
Quick Exhaust Valves			
	1/8"	NPT x Tube	19H015
	1/4"	NPT x Tube	19H016
	3/8"	NPT x Tube	19H017
	1/2"	NPT x Tube	19H018

Brass and Polybutylene 1-Touch Fittings

SMC

- Operating pressure range: -15 (vacuum) to 145 psi
- Temp. range: 23° to 140°F

Low disconnecting force helps prevent collet and chuck from biting into and damaging tubing. Polybutylene/brass body and threaded portion can turn independently of one another for use in confined spaces. Use with polyurethane, polyolefin, nylon, and PTFE tubing. Can be used for positive air pressure as well as vacuum for actuators, air preparation, and directional control valves.

Tube x UNF

Bulkhead Union Elbow, 90 Degrees

Tube Size	Item No.
⅛ in	36W658
5/32 in	36W659
3/16 in	36W661
5/16 in	36W665
⅜ in	36W667

Tube x Tube

Bulkhead Union

Tube Size	Item No.
⅛ in	36W954
5/32 in	36W955
3/16 in	36W957
¼ in	36W959
5/16 in	36W961
⅜ in	36W963
½ in	36W965
4mm	36W956
6mm	36W958
8mm	36W960
10mm	36W962
12mm	36W964

Bulkhead Union Elbow, 90 Degrees

Tube Size	Item No.
¼ in	36W663
½ in	36W669
4mm	36W660
6mm	36W662
8mm	36W664
10mm	36W666
12mm	36W668

Straight Union

Tube Size	Item No.
⅛ in	36W966
3/16 in	36X004
¼ in	36X019
5/16 in	36X035
⅜ in	36X050
½ in	36X064
4mm	36W997
6mm	36X012
8mm	36X030
10mm	36X044
12mm	36X059

Union Elbow, 90 Degrees

Tube Size	Item No.
⅛ in	36X071
5/32 in	36X080
3/16 in	36X093
¼ in	36X110
5/16 in	36X127
⅜ in	36W634
½ in	36W650
4mm	36X087
6mm	36X103
8mm	36X122
10mm	36X137
12mm	36W644

Union Tee*

Tube Size	Item No.
⅛ in	36W731
5/32 in	36W738
3/16 in	36W750
¼ in	36W764
5/16 in	36W780
⅜ in	36W796
½ in	36W812
4mm	36W744
6mm	36W756
8mm	36W774
10mm	36W789
12mm	36W806

Y Union

Tube Size	Item No.
⅛ in	36W819
5/32 in	36W825
3/16 in	36W837
¼ in	36W852
5/16 in	36W868
⅜ in	36W884
4mm	36W830
6mm	36W844
8mm	36W862
10mm	36W878
12mm	36W892

Tube Caps

Tube Cap

Tube Size	Item No.
5/32 in	36W945
¼ in	36W948
5/16 in	36W950
⅜ in	36W952
4mm	36W946
6mm	36W947
8mm	36W949
10mm	36W951
12mm	36W953

Plug-In x Tube

Plug-In Elbow, 90 Degrees

Tube Size	Item No.
⅜ in	36W643
½ in	36W657
10mm	36W633
12mm	36W649

Tube x UNF

Hex Socket Head Male Adapter

Tube Size	Pipe Size	Item No.
⅛ in	10-32	36W694
5/32 in	10-32	36W695
¼ in	10-32	36W707

Male Adapter

Tube Size	Pipe Size	Item No.
⅛ in	10-32	36W985
5/32 in	10-32	36W993
3/16 in	10-32	36X008
¼ in	10-32	36X025

Male Branch Tee*

Tube Size	Pipe Size	Item No.
⅛ in	10-32	36W734
5/32 in	10-32	36W740
¼ in	10-32	36W770

Male Elbow, 45 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	10-32	36X244
5/32 in	10-32	36X246
¼ in	10-32	36X249

Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	10-32	36X074
5/32 in	10-32	36X082
3/16 in	10-32	36X098
¼ in	10-32	36X116

Tube x Rc(PT)

Extended Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X226
6mm	M5 x 0.8	36X229

Female Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X188
4mm	M6 x 1	36X189
6mm	M6 x 1	36X192

Tube x R(PT)

Female Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
6mm	M5 x 0.8	36X191

Hex Socket Head Male Adapter

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W698
4mm	M6 x 1	36W699
6mm	M5 x 0.8	36W705
6mm	M6 x 1	36W706

Male Adapter

Tube Size	Pipe Size	Item No.
3/16 in	M5 x 0.8	36X011
¼ in	M5 x 0.8	36X029
4mm	M5 x 0.8	36X002
4mm	M6 x 1	36X003
6mm	M5 x 0.8	36X017
6mm	M6 x 1	36X018

Male Branch Tee*

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W748
4mm	M6 x 1	36W749
6mm	M5 x 0.8	36W762
6mm	M6 x 1	36W763

Male Elbow, 45 Degrees

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36X263
4mm	M6 x 1	36X264
6mm	M5 x 0.8	36X267
6mm	M6 x 1	36X268

Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	M5 x 0.8	36X079
¼ in	M5 x 0.8	36X121
4mm	M5 x 0.8	36X091
4mm	M6 x 1	36X092
6mm	M5 x 0.8	36X108
6mm	M6 x 1	36X109

Male Run Tee*

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W914
4mm	M6 x 1	36W915
6mm	M5 x 0.8	36W923
6mm	M6 x 1	36W924

Y Branch

Tube Size	Pipe Size	Item No.
4mm	M5 x 0.8	36W835
4mm	M6 x 1	36W836
6mm	M5 x 0.8	36W850
6mm	M6 x 1	36W851

Tube x MNPT x Tube

Male Branch Tee*

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	36W735
⅛ in	¼ in	36W737

Tube x MNPT

Extended Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36X205
⅛ in	¼ in	36X206
5/32 in	⅛ in	36X207
5/32 in	¼ in	36X208
3/16 in	⅛ in	36X209
3/16 in	¼ in	36X210
¼ in	⅛ in	36X211
¼ in	¼ in	36X212
¼ in	⅜ in	36X213
5/16 in	⅛ in	36X214
5/16 in	¼ in	36X215
5/16 in	⅜ in	36X216
⅜ in	¼ in	36X217
⅜ in	⅜ in	36X218
⅜ in	½ in	36X219
½ in	¼ in	36X220
½ in	⅜ in	36X221
½ in	½ in	36X222

Hex Socket Head Male Adapter

Tube Size	Pipe Size	Item No.
5/32 in	⅛ in	36W696
3/16 in	⅛ in	36W701
¼ in	⅛ in	36W708
¼ in	⅜ in	36W710
5/16 in	⅛ in	36W714
5/16 in	¼ in	36W715
5/16 in	⅜ in	36W716
⅜ in	⅛ in	36W721
⅜ in	¼ in	36W722
⅜ in	⅜ in	36W723
⅜ in	½ in	36W724
½ in	¼ in	36W728
½ in	⅜ in	36W729
½ in	½ in	36W730

Male Adapter

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	36W986
⅛ in	⅛ in	36W987
⅛ in	¼ in	36W988
5/32 in	1/16 in	36W994
5/32 in	⅛ in	36W995
5/32 in	¼ in	36W996
3/16 in	⅛ in	36X009
3/16 in	¼ in	36X010
¼ in	⅛ in	36X026
¼ in	¼ in	36X027
¼ in	⅜ in	36X028
5/16 in	¼ in	36X042
5/16 in	⅜ in	36X043
⅜ in	⅛ in	36X055
⅜ in	¼ in	36X056
⅜ in	⅜ in	36X057
⅜ in	½ in	36X058
½ in	¼ in	36X068
½ in	⅜ in	36X069
½ in	½ in	36X070

Male Branch Tee*

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36W736
5/32 in	1/16 in	36W741
5/32 in	⅛ in	36W742
5/32 in	¼ in	36W743
3/16 in	⅛ in	36W754
3/16 in	¼ in	36W755
¼ in	⅛ in	36W771
¼ in	¼ in	36W772
¼ in	⅜ in	36W773
5/16 in	⅛ in	36W786
5/16 in	¼ in	36W787
5/16 in	⅜ in	36W788
⅜ in	⅛ in	36W802
⅜ in	¼ in	36W803
⅜ in	⅜ in	36W804
⅜ in	½ in	36W805
½ in	¼ in	36W816
½ in	⅜ in	36W817
½ in	½ in	36W818

Male Elbow, 45 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36X245
5/32 in	⅛ in	36X247
3/16 in	⅛ in	36X248
¼ in	⅛ in	36X250
¼ in	¼ in	36X251
¼ in	⅜ in	36X252
5/16 in	⅛ in	36X253
5/16 in	¼ in	36X254
5/16 in	⅜ in	36X255
⅜ in	⅛ in	36X256
⅜ in	¼ in	36X257
⅜ in	⅜ in	36X258
⅜ in	½ in	36X259
½ in	¼ in	36X260
½ in	⅜ in	36X261
½ in	½ in	36X262

Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	36X075
⅛ in	⅛ in	36X076
⅛ in	¼ in	36X077
5/32 in	1/16 in	36X083
5/32 in	⅛ in	36X084
5/32 in	¼ in	36X085
3/16 in	⅛ in	36X099
3/16 in	¼ in	36X101
¼ in	¼ in	36X118
¼ in	⅜ in	36X119
5/16 in	⅛ in	36X133
5/16 in	¼ in	36X134
5/16 in	⅜ in	36X135
⅜ in	⅜ in	36W641

Male Elbow, 90 Degrees , ¼" x ⅛"

Tube Size	Pipe Size	Item No.
¼ in	⅛ in	36X117

Male Run Tee*

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	36W906
⅛ in	⅛ in	36W907
⅛ in	¼ in	36W908
5/32 in	1/16 in	36W909
5/32 in	⅛ in	36W910
5/32 in	¼ in	36W911
3/16 in	¼ in	36W919
¼ in	⅛ in	36W928
¼ in	¼ in	36W929
¼ in	⅜ in	36W930
5/16 in	⅛ in	36W937
5/16 in	¼ in	36W938
5/16 in	⅜ in	36W939
⅜ in	¼ in	36W973
⅜ in	⅜ in	36W974
⅜ in	½ in	36W975
½ in	¼ in	36W982
½ in	⅜ in	36W983
½ in	½ in	36W984

Pneumatic Straight Threaded-to-Tube Adapter

Tube Size	Pipe Size	Item No.
¼ in	¼ in	36W709

Union Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅜ in	⅛ in	36W639
⅜ in	¼ in	36W640
⅜ in	½ in	36W642
½ in	¼ in	36W654
½ in	⅜ in	36W655
½ in	½ in	36W656

Y Branch

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36W822
⅛ in	¼ in	36W823
5/32 in	⅛ in	36W827
5/32 in	¼ in	36W828
3/16 in	⅛ in	36W841
3/16 in	¼ in	36W842
¼ in	⅛ in	36W858
¼ in	¼ in	36W859
¼ in	⅜ in	36W860
5/16 in	⅛ in	36W874
5/16 in	¼ in	36W875
5/16 in	⅜ in	36W876
⅜ in	⅛ in	36W889
⅜ in	⅜ in	36W890
⅜ in	½ in	36W891
½ in	¼ in	36W902
½ in	⅜ in	36W903
½ in	½ in	36W904

Tube x Male BSPT

Extended Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
3.2mm	⅛ in	36X224
3.2mm	¼ in	36X225
4mm	⅛ in	36X227
4mm	¼ in	36X228
6mm	⅛ in	36X230
6mm	¼ in	36X231
6mm	⅜ in	36X232
8mm	⅛ in	36X233
8mm	¼ in	36X234
8mm	⅜ in	36X235
10mm	¼ in	36X236
10mm	⅜ in	36X237
10mm	½ in	36X238
12mm	¼ in	36X239
12mm	⅜ in	36X240
12mm	½ in	36X241
16mm	⅜ in	36X242
16mm	½ in	36X243

Hex Socket Head Male Adapter

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36W697
6mm	⅛ in	36W702
6mm	⅛ in	36W703
6mm	¼ in	36W704
8mm	⅛ in	36W711
8mm	¼ in	36W712
8mm	⅜ in	36W713
10mm	⅛ in	36W717
10mm	¼ in	36W718
10mm	⅜ in	36W719
10mm	½ in	36W720
12mm	¼ in	36W725
12mm	⅜ in	36W726
12mm	½ in	36W727

Male Adapter

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36W967
⅛ in	¼ in	36W968
3/16 in	⅛ in	36X005
3/16 in	¼ in	36X006
¼ in	⅛ in	36X020
¼ in	¼ in	36X021
¼ in	⅜ in	36X022
5/16 in	⅛ in	36X036
5/16 in	¼ in	36X037
5/16 in	⅜ in	36X038
⅜ in	¼ in	36X051
⅜ in	⅜ in	36X052
⅜ in	½ in	36X053
½ in	¼ in	36X065
½ in	⅜ in	36X066
½ in	½ in	36X067

Male Adapter

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36W998
4mm	¼ in	36W999
6mm	⅛ in	36X013
6mm	¼ in	36X014
6mm	⅜ in	36X015
8mm	⅛ in	36X031
8mm	¼ in	36X032
8mm	⅜ in	36X033
10mm	⅛ in	36X045
10mm	¼ in	36X046
10mm	⅜ in	36X047
10mm	½ in	36X048
12mm	¼ in	36X060
12mm	⅜ in	36X061
12mm	½ in	36X062

** Tees read: run x run x outlet.*

CONTINUED

CONTINUED

SMC

Brass and Polybutylene 1-Touch Fittings

Tube x Male BSPT (Cont.)

Male Branch Tee*

Tube Size	Pipe Size	Item No.
3/16 in	⅛ in	36W751
3/16 in	¼ in	36W752
¼ in	⅛ in	36W765
¼ in	¼ in	36W766
¼ in	⅜ in	36W767
5/16 in	⅛ in	36W781
5/16 in	¼ in	36W782
5/16 in	⅜ in	36W783
⅜ in	¼ in	36W797
⅜ in	⅜ in	36W798
⅜ in	½ in	36W799
½ in	¼ in	36W813
½ in	⅜ in	36W814
½ in	½ in	36W815

Male Branch Tee*

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36W745
4mm	¼ in	36W746
6mm	⅛ in	36W757
6mm	¼ in	36W758
6mm	⅜ in	36W759
8mm	⅛ in	36W775
8mm	¼ in	36W776
8mm	⅜ in	36W777
10mm	⅛ in	36W790
10mm	¼ in	36W791
10mm	⅜ in	36W792
10mm	½ in	36W793
12mm	¼ in	36W807
12mm	⅜ in	36W808
12mm	½ in	36W809

Male Elbow, 45 Degrees

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36X265
4mm	¼ in	36X266
6mm	⅛ in	36X269
6mm	¼ in	36X270
6mm	⅜ in	36X271
8mm	⅛ in	36X272
8mm	¼ in	36X273
8mm	⅜ in	36X274
10mm	⅛ in	36X275
10mm	¼ in	36X276
10mm	⅜ in	36X277
10mm	½ in	36X278
12mm	¼ in	36X279
12mm	⅜ in	36X280
12mm	½ in	36X281
16mm	⅜ in	36X282
16mm	½ in	36X283

Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
3/16 in	⅛ in	36X094
3/16 in	¼ in	36X095
¼ in	⅛ in	36X111
¼ in	¼ in	36X112
¼ in	⅜ in	36X113
5/16 in	⅛ in	36X128
5/16 in	¼ in	36X129
5/16 in	⅜ in	36X130
4mm	⅛ in	36X088
4mm	¼ in	36X089
6mm	⅛ in	36X104
6mm	¼ in	36X105
6mm	⅜ in	36X106
8mm	⅛ in	36X123
8mm	¼ in	36X124
8mm	⅜ in	36X125
10mm	⅛ in	36X138
10mm	¼ in	36X139

Male Run Tee*

Tube Size	Pipe Size	Item No.
3/16 in	⅛ in	36W916
3/16 in	¼ in	36W917
¼ in	⅛ in	36W925
¼ in	¼ in	36W926
¼ in	⅜ in	36W927
5/16 in	⅛ in	36W934
5/16 in	¼ in	36W935
5/16 in	⅜ in	36W936
⅜ in	¼ in	36W944
⅜ in	⅜ in	36W971
⅜ in	½ in	36W972
½ in	¼ in	36W979
½ in	⅜ in	36W980
½ in	½ in	36W981

Male Run Tee*

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36W912
4mm	¼ in	36W913
6mm	⅛ in	36W920
6mm	¼ in	36W921
6mm	⅜ in	36W922
8mm	⅛ in	36W931
8mm	¼ in	36W932
8mm	⅜ in	36W933
10mm	⅛ in	36W940
10mm	¼ in	36W941
10mm	⅜ in	36W942
10mm	½ in	36W943
12mm	¼ in	36W976
12mm	⅜ in	36W977
12mm	½ in	36W978

Union Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅜ in	¼ in	36W635
⅜ in	⅜ in	36W636
⅜ in	½ in	36W637
½ in	¼ in	36W651
½ in	⅜ in	36W652
½ in	½ in	36W653
10mm	⅜ in	36W631
10mm	½ in	36W632
12mm	¼ in	36W645
12mm	⅜ in	36W646
12mm	½ in	36W647

Y Branch

Tube Size	Pipe Size	Item No.
3/16 in	⅛ in	36W838
3/16 in	¼ in	36W839
¼ in	⅛ in	36W853
¼ in	¼ in	36W854
¼ in	⅜ in	36W855
5/16 in	⅛ in	36W869
5/16 in	¼ in	36W870
5/16 in	⅜ in	36W871
⅜ in	¼ in	36W885
⅜ in	⅜ in	36W886
⅜ in	½ in	36W887
½ in	¼ in	36W898
½ in	⅜ in	36W899
½ in	½ in	36W901

Y Branch

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36W831
4mm	¼ in	36W832
6mm	⅛ in	36W845
6mm	¼ in	36W846
6mm	⅜ in	36W847
8mm	⅛ in	36W863
8mm	¼ in	36W864
8mm	⅜ in	36W865
10mm	¼ in	36W879
10mm	⅜ in	36W880
10mm	½ in	36W881
12mm	¼ in	36W893
12mm	⅜ in	36W894
12mm	½ in	36W895

Tube x Male

Extended Male Elbow, 90 Degrees

3.2mm M5 x 0.8 36X223

Male Adapter

⅛ in M5 x 0.8 36W989

Tube x FNPT

Female Adapter

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36X147
⅛ in	¼ in	36X148
5/32 in	⅛ in	36X149
5/32 in	¼ in	36X150
¼ in	⅛ in	36X151
¼ in	¼ in	36X152
¼ in	⅜ in	36X153
5/16 in	⅛ in	36X154
5/16 in	¼ in	36X155
5/16 in	⅜ in	36X156
⅜ in	¼ in	36X157
⅜ in	⅜ in	36X158
⅜ in	½ in	36X159
½ in	⅜ in	36X160
½ in	½ in	36X161

Female Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	36X176
⅛ in	¼ in	36X177
5/32 in	⅛ in	36X178
5/32 in	¼ in	36X179
¼ in	⅛ in	36X180
¼ in	¼ in	36X181
¼ in	⅜ in	36X182
⅜ in	¼ in	36X183
⅜ in	⅜ in	36X184
⅜ in	½ in	36X185
½ in	⅜ in	36X186
½ in	½ in	36X187

Tube x Female BSPT

Female Adapter

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36X162
4mm	¼ in	36X163
6mm	⅛ in	36X164
6mm	¼ in	36X165
6mm	⅜ in	36X166
8mm	⅛ in	36X167
8mm	¼ in	36X168
8mm	⅜ in	36X169
10mm	¼ in	36X170
10mm	⅜ in	36X171
12mm	¼ in	36X172
12mm	⅜ in	36X173
12mm	½ in	36X174
16mm	½ in	36X175

Female Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
4mm	⅛ in	36X190
6mm	⅛ in	36X193
6mm	¼ in	36X194
6mm	⅜ in	36X195
8mm	⅛ in	36X196
8mm	¼ in	36X197
8mm	⅜ in	36X198
10mm	¼ in	36X199
10mm	⅜ in	36X201
12mm	¼ in	36X202
12mm	⅜ in	36X203
12mm	½ in	36X204

** Tees read: run x run x outlet.*

AIGNEP

Swift-Fit Universal Flow Controls

- Max. pressure: 190 psi (fittings)
- Temp. range: 0° to 200°F

Male threads on PTC fittings are compatible with both inch and metric female thread systems. Will not strip threads on either the fitting or the component. Built-in reusable Buna thread seal for quick, low-profile installation.

Knob Adjustment, Control Flow In and Out

Swift-Fit x Tube

Tube Size	Thread Size	Item No.
⅛"	⅛"	1VRF4
¼"	⅛"	1VRF5
¼"	¼"	1VRF6
⅜"	¼"	1VRF7
⅜"	⅜"	1VRF8
½"	⅜"	1VRF9
½"	½"	1VRG1

Swift-Fit x Female NPT

Tube Size	Thread Size	Item No.
⅛"	⅛"	1VRF1
¼"	¼"	1VRF2
⅜"	⅜"	1VRF3

Knob Adjustment, Control Flow Out

Swift-Fit x Tube

Tube Size	Thread Size	Item No.
⅛"	⅛"	6MN36
¼"	⅛"	1VRD4
¼"	¼"	6MN37
⅜"	¼"	1VRD5
⅜"	⅜"	1VRD6
½"	⅜"	1VRD7
½"	½"	1VRD8

Swift-Fit x Female NPT

Tube Size	Thread Size	Item No.
⅛"	⅛"	1VRD1
¼"	¼"	1VRD2
⅜"	⅜"	1VRD3

Screw Adjustment, Control Flow In and Out

Swift-Fit x Female NPT

Tube Size	Thread Size	Item No.
⅛"	⅛"	1VRD9
¼"	¼"	1VRE1
⅜"	⅜"	1VRE2

Swift-Fit x Tube

Tube Size	Thread Size	Item No.
⅛"	⅛"	1VRE3
¼"	⅛"	1VRE4
¼"	¼"	1VRE5
⅜"	¼"	1VRE6
⅜"	⅜"	1VRE7
½"	⅜"	1VRE8
½"	½"	1VRE9

Screw Adjustment, Control Flow Out

Swift-Fit x Tube

Tube Size	Thread Size	Item No.
⅛"	⅛"	6MN33
¼"	⅛"	6MN34
¼"	¼"	6MN35
⅜"	¼"	1VRC6
⅜"	⅜"	1VRC7
½"	⅜"	1VRC8
½"	½"	1VRC9

Glass-Filled Nylon Push-To-Connect Fittings

legris

- Max. pressure: 290 psi
- Temp. range: -4° to 175°F
- Pkg. qty.: 10, unless otherwise noted

Stainless steel gripping ring allows you to create a secure, leak-free connection without tools; disconnects easily with the plastic release button. All threaded elbows, tees, and Y's swivel around the threaded, nickel-plated base for easy installation. Fitting bodies are a composite material—nylon and nickel-plated brass. Thread sealant is preapplied to all tapered threads. Buna N elastomer seals. Can be used with all pneumatic machines, as well as for food-processing, packaging equipment, textile machinery, robotics, and semiconductor applications. Use with semirigid nylon, flexible polyurethane, polyethylene, and PTFE tubing.

10-32 UNF threads include O-ring seal.

Tube O.D. x NPT/UNF

Male Connector

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	1PFF4
⅛ in	⅛ in	1PFF5
⅛ in	¼ in	1PFF6
⅛ in	10-32	1PFW1
5/32 in or 4mm	⅛ in	1PFF3
5/32 in or 4mm	¼ in	1PFW2
5/32 in or 4mm	10-32	1PFF1
3/16 in	⅛ in	1PFF7 #
3/16 in	¼ in	1PFF8 #
¼ in	⅛ in	1PFF9
¼ in	¼ in	1PFG1
¼ in	⅜ in	1PFG2
¼ in	10-32	1PFF2
5/16 in or 8mm	⅛ in	5WRZ5
5/16 in or 8mm	¼ in	5WRZ6
5/16 in or 8mm	⅜ in	5WRZ7
⅜ in	⅛ in	1PFG3
⅜ in	¼ in	1PFG4
⅜ in	⅜ in	1PFG5
⅜ in	½ in	1PFW3
½ in	¼ in	1PFG6
½ in	⅜ in	1PFW4
½ in	½ in	1PFG7
6mm	⅛ in	5WRZ8
6mm	¼ in	5WRZ9
10mm	¼ in	5WTA0
10mm	⅜ in	5WTA1
10mm	½ in	5WTA2
12mm	⅜ in	5WTA3
12mm	½ in	5WTA4

Female Connector

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	1PEL4
⅛ in	¼ in	1DCD3
⅛ in	10-32	5WTG5
5/32 in	⅛ in	1PEL2
5/32 in	¼ in	1PEL3
¼ in	⅛ in	1PEL5
¼ in	¼ in	1PEL6
5/16 in	⅛ in	1XCW8
5/16 in	¼ in	1DCD1
⅜ in	⅛ in	1DCD5
⅜ in	¼ in	1PEL8
⅜ in	⅜ in	1PEL7
⅜ in	½ in	5WTH0
½ in	¼ in	5WTH1
½ in	⅜ in	1DCD7
½ in	½ in	1DCD9

Male Elbow, 90 Degrees

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	1DCZ9
⅛ in	⅛ in	1PFA5
⅛ in	¼ in	1PFA6
⅛ in	10-32	1DDA2
5/32 in or 4mm	⅛ in	1PFA2
5/32 in or 4mm	¼ in	1PFA3
5/32 in or 4mm	10-32	1PFA4
3/16 in	⅛ in	1PFA7
¼ in	⅛ in	1PFA8
¼ in	¼ in	1PFA9
¼ in	⅜ in	1PFB5
¼ in	10-32	1PFB6
5/16 in or 8mm	⅛ in	1DCP2
5/16 in or 8mm	¼ in	1DCP4
5/16 in or 8mm	⅜ in	1DCP6
⅜ in	⅛ in	1PFB7
⅜ in	¼ in	1PFB8
⅜ in	⅜ in	1PFB9
⅜ in	½ in	1PFC1
½ in	¼ in	1PFC2
½ in	⅜ in	1PFC3
½ in	½ in	1PFC4
6mm	⅛ in	1DCN7
6mm	¼ in	1DCN9
10mm	¼ in	1DCY8
10mm	⅜ in	1DCZ1
10mm	½ in	1DCZ3
12mm	⅜ in	1DCZ5
12mm	½ in	1DCZ7

Extended 90° Male Elbow

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	1DDP7
5/32 in or 4mm	⅛ in	1DDA4
5/32 in or 4mm	¼ in	1DDA6
5/32 in or 4mm	10-32	5WRY6
¼ in	⅛ in	1PFD6
¼ in	¼ in	1PFD7
¼ in	⅜ in	1DDP9
5/16 in or 8mm	⅛ in	1DDA8
5/16 in or 8mm	¼ in	1DDP6
⅜ in	⅛ in	1DDR1
⅜ in	¼ in	1PFD8
⅜ in x ⅜ in	⅜ in	1PFD9

45° Male Elbow

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	4GWY4
¼ in	⅛ in	4GWZ2
¼ in	¼ in	4GWZ3
5/16 in or 8mm	⅛ in	4GWZ5
5/16 in or 8mm	¼ in	4GWZ6
⅜ in	⅛ in	4GWZ8
⅜ in	¼ in	4GWZ9
⅜ in	⅜ in	4GXA1

90° Female Elbow

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	1XCV7
5/32 in	⅛ in	1XCU8
¼ in	⅛ in	1XCV9
¼ in	¼ in	1XCW2
5/16 in	¼ in	1XCV5
⅜ in	¼ in	1XCW4
½ in	⅜ in	1XCW6

Male Branch Tee*

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	1PEW7
⅛ in	⅛ in	1PEW8
⅛ in	¼ in	1PEX4
⅛ in	10-32	1DCN3
5/32 in or 4mm	⅛ in	1PEV9
5/32 in or 4mm	¼ in	1PEW1
5/32 in or 4mm	10-32	1DCE8
¼ in	⅛ in	1PEW9
¼ in	¼ in	1PEX1
¼ in	⅜ in	1PEX2
5/16 in or 8mm	⅛ in	1DCL6
5/16 in or 8mm	¼ in	1DCL8
5/16 in or 8mm	⅜ in	1DCN1
⅜ in	⅛ in	1PEX3
⅜ in	¼ in	1PEX8
⅜ in	⅜ in	1PEX9
⅜ in	½ in	1DCN5
½ in	¼ in	1PEY1
½ in	⅜ in	1PEY2
½ in	½ in	1PEY3
6mm	⅛ in	5WRY7
6mm	¼ in	5WRY8
10mm	¼ in	5WRY9
10mm	⅜ in	5WRZ0
10mm	½ in	5WRZ1
12mm	⅜ in	5WRZ2

Male Run Tee*

Tube Size	Pipe Size	Item No.
⅛ in	1/16 in	5WTA6
⅛ in	⅛ in	1PER4
⅛ in	10-32	5WTA5
5/32 in or 4mm	⅛ in	1PEP9
5/32 in or 4mm	¼ in	5WTA8
5/32 in or 4mm	10-32	5WTA7
¼ in	⅛ in	1PER5
¼ in	¼ in	1PER6
¼ in	⅜ in	1PER7
5/16 in or 8mm	⅛ in	5WTC0
5/16 in or 8mm	¼ in	5WTC1
5/16 in or 8mm	⅜ in	5WTC2
⅜ in	⅛ in	5WTC3
⅜ in	¼ in	1PER8
⅜ in	⅜ in	1PER9
⅜ in	½ in	1PEU1
½ in	¼ in	5WTC4
½ in	⅜ in	5WTC5
½ in	½ in	1PEU2
6mm	⅛ in	5WTC6
6mm	¼ in	5WTC7

Male Y Connector

Tube Size	Pipe Size	Item No.
⅛ in	⅛ in	5WRZ4
5/32 in or 4mm	⅛ in	1PFE1
5/32 in or 4mm	¼ in	1PFE2
¼ in	¼ in	1PFE4
⅜ in	¼ in	1PFV7
⅜ in	⅜ in	1PFV8

Single Banjo

Tube Size	Pipe Size	Item No.
⅛ in	10-32	4GXC5
5/32 in or 4mm	10-32	4GXC6
¼ in	⅛ in	4GXD1
¼ in	¼ in	4GXD2
¼ in	10-32	4GXC9
⅜ in	¼ in	4GXD6

Male Standpipe

Tube Size	Pipe Size	Item No.
¼ in	¼ in	4GXE3
5/16 in or 8mm	¼ in	4GXE5
⅜ in	¼ in	4GXE7

Female Bulkhead Adapter

Tube Size	Pipe Size	Item No.
5/32 in	¼ in	1PEL9
¼ in	⅛ in	5WTG3
¼ in	¼ in	1PEN1
⅜ in	⅜ in	1PEN2

Tube O.D. x BSPP/Metric

Male Connector

Tube Size	Pipe Size	Item No.
4mm	⅛ in	1PEN3
4mm	¼ in	1PEN4
4mm	M3 x 0.5	5WTD3
4mm	M5 x 0.8	1PEN5
4mm	M7 x 1	5WTD4
6mm	⅛ in	1PEL1
6mm	¼ in	1PEN6
6mm	⅜ in	1DDZ9
6mm	½ in	1DEB1
6mm	M10 x 1	5WTD7
6mm	M12 x 1.5	5WTD8
6mm	M5 x 0.8	5WTD5
6mm	M7 x 1	5WTD6
8mm	⅛ in	1PEN7
8mm	¼ in	1PEN8
8mm	⅜ in	1PEN9
8mm	½ in	1DEB2
8mm	M10 x 1	5WTD9
8mm	M12 x 1.5	5WTE0
10mm	¼ in	1PEP1
10mm	⅜ in	1PEP2
10mm	½ in	1DEB3
12mm	¼ in	1DEB4
12mm	⅜ in	1DEB5
12mm	½ in	1DEB6
14mm	⅜ in	1DEB7
14mm	½ in	1DEB8
16mm	⅜ in	19D041 **
16mm	½ in	19D042 **

Female Connector

Tube Size	Pipe Size	Item No.
4mm	⅛ in	1DDZ3
6mm	⅛ in	1DDZ5
6mm	¼ in	1DDZ6
8mm	⅛ in	1DDZ7
8mm	¼ in	1DDZ8
10mm	⅜ in	4GWT2
12mm	½ in	4GWT4
16mm	½ in	19D043 **

90° Male Elbow

Tube Size	Pipe Size	Item No.
4mm	⅛ in	1PFG8
4mm	¼ in	1PFG9
4mm	M3 x 0.5	1DET6
4mm	M5 x 0.8	1PFH1
4mm	M7 x 1	1DET7
6mm	⅛ in	1PFH2
6mm	¼ in	1PFH3
6mm	⅜ in	1PFW5
6mm	½ in	1DET8
6mm	M10 x 1	1DEU1
6mm	M12 x 1.5	1DEU2
6mm	M5 x 0.8	1PFH4
6mm	M7 x 1	1DET9
8mm	⅛ in	1PFH5
8mm	¼ in	1PFH6
8mm	⅜ in	1PFH7
8mm	½ in	1DEU3
8mm	M10 x 1	1DEU4
8mm	M12 x 1.5	1DEU5
10mm	¼ in	1PFH8
10mm	⅜ in	1PFH9
10mm	½ in	1PFJ1
12mm	¼ in	1DEU6
12mm	⅜ in	1DEU7
12mm	½ in	1DEU8
14mm	⅜ in	1DEU9
14mm	½ in	1DEV1
16mm	⅜ in	19D044 **
16mm	⅜ in	19D046 **
16mm	½ in	19D045 **
16mm	½ in	19D047 **

** Tees read: run x run x outlet. † Pkg. qty.: 50. ** Sold as each.*
 # Temp. range: 5 to 155°F; Max. pressure: 260 psi; Bare brass.

CONTINUED

CONTINUED

Glass-Filled Nylon Push-To-Connect Fittings

legris

	Tube Size	Pipe Size	Item No.
45° Male Elbow			
	6mm	⅛ in	4GWT7
	6mm	¼ in	4GWT8
	6mm	M5 x 0.8	5WTE2
Male Branch Tee*			
	4mm	⅛ in	4GWU7
	4mm	M5 x 0.8	5WTE5
	6mm	⅛ in	4GWU9
	6mm	¼ in	4GWX1
	6mm	M5 x 0.8	5WTE6
	8mm	⅛ in	4GWX2
	8mm	¼ in	4GWX3
	8mm	⅜ in	4GWX4
	10mm	¼ in	4GWX5
	14mm	½ in	5WTG0
	16mm	⅜ in	19D050 **
	16mm	⅜ in	19D054 **
	16mm	½ in	19D051 **
	16mm	½ in	19D055 **
Male Run Tee*			
	4mm	⅛ in	4GWP5
	4mm	⅛ in	1DEP7
	4mm	M5 x 0.8	1DEP9
	6mm	⅛ in	4GWP7
	6mm	⅛ in	1DER1
	8mm	⅛ in	4GWP9
	8mm	¼ in	4GWR1
	8mm	¼ in	1DER4
	8mm	⅜ in	4GWR2
	10mm	¼ in	1DER6
	14mm	½ in	1DET5
	16mm	⅜ in	19D048 **
	16mm	⅜ in	19D052 **
	16mm	½ in	19D053 **
Female Bulkhead Connector			
	16mm	⅜ in	19D060 **
	16mm	½ in	19D061 **

	Tube Size	Pipe Size	Item No.
Tube O.D. x BSPT/Metric Male Connector			
	⅛ in	⅛ in	4GXF1
	5⁄32 in or 4mm	⅛ in	4GXF2
	5⁄32 in or 4mm	¼ in	4GXF3
	3⁄16 in	⅛ in	4GXF4
	¼ in	⅛ in	4GXF5
	¼ in	¼ in	4GXF6
	5⁄16 in or 8mm	¼ in	4GXF7
	⅜ in	¼ in	4GXF8
	⅜ in	⅜ in	4GXF9
	½ in	⅜ in	4GXG1
	½ in	½ in	4GXG2
	6mm	⅛ in	4AAA1
	6mm	¼ in	4GWH8
	8mm	⅛ in	4GWH9
	8mm	⅜ in	4GWJ1
	10mm	¼ in	4GWJ2
	12mm	¼ in	4GWJ3
	12mm	⅜ in	4GWJ4
	12mm	½ in	4GWJ5
	14mm	⅜ in	4GWJ6
	14mm	½ in	4GWJ7
	16mm	⅜ in	19D039 **
	16mm	½ in	19D040 **
90° Male Elbow			
	⅛ in	⅛ in	4GXG3
	5⁄32 in or 4mm	⅛ in	4GXG4
	3⁄16 in	⅛ in	4GXG5
	¼ in	⅛ in	4GXG6
	¼ in	¼ in	4GXG7
	5⁄16 in or 8mm	¼ in	4GXG8
	⅜ in	¼ in	4GXG9
	⅜ in	⅜ in	4GXH1
	½ in	⅜ in	4GXH2
	½ in	½ in	4GXH3
	4mm	⅛ in	4GWL1
	6mm	⅛ in	4GWL2
	6mm	¼ in	4GWL3
	8mm	⅛ in	4GWL4
	8mm	⅜ in	4GWL5
	10mm	¼ in	4GWL6
	12mm	¼ in	4GWL7
	12mm	⅜ in	4GWL8
	12mm	½ in	4GWL9
	14mm	⅜ in	4GWN1
	14mm	½ in	4GWN2
45° Male Elbow			
	4mm	⅛ in	4GWJ8
	8mm	¼ in	4GWK4

	Tube Size	Pipe Size	Item No.
Male Branch Tee*			
	5⁄32 in or 4mm	⅛ in	4GXH5
	¼ in	⅛ in	4GXH7
	¼ in	¼ in	4GXH8
	⅜ in	¼ in	4GXJ1
	⅜ in	⅜ in	4GXJ2
	4mm	¼ in	4GWN3
	6mm	⅛ in	4GWN4
	6mm	¼ in	4GWN5
	8mm	⅛ in	4GWN6
	8mm	¼ in	4GXH9
	10mm	¼ in	4GWN8
	12mm	¼ in	4GWN9
	12mm	½ in	4GWP2

	Tube Size	Pipe Size	Item No.
Tube O.D. x Stem Plug-In 90° Elbow			
	⅛ in	—	1DDU3
	5⁄32 in or 4mm	—	1DEK7
	5⁄32 in	—	1DDU2
	¼ in	—	1DDU4
	¼ in	—	1DDU5
	5⁄16 in or 8mm	—	1DEL3
	⅜ in	—	1DDU6
	½ in	—	1DDU7
Extended 90° Plug-In Elbow			
	5⁄32 in or 4mm	—	1DFV2
	¼ in	—	1DDV3
	5⁄16 in or 8mm	—	1DEN2
Plug-In Tee*			
	¼ in	—	1DDV6
	5⁄16 in or 8mm	—	1DEP2
Plug-In Run Tee*			
	¼ in	—	1DDU8
Plug-In Y			
	5⁄32 in or 4mm	—	1DEG8
	¼ in	—	1DDR9
	5⁄16 in or 8mm	—	1DEH3
	⅜ in	—	1DDU1
Plug-In Reducer			
	⅛ in	¼ in	1PFE6
	5⁄32 in	¼ in	1PFE5
	¼ in	5⁄16 in	1PFV9
	¼ in	⅜ in	1PFE7
	¼ in	½ in	1PFE8
	⅜ in	½ in	1PFE9
	4mm	—	1DEK4
	4mm	—	1DEK6
	6mm	—	1DEK5
	8mm	—	5WTH2
	10mm	—	5WTH3
Plug			
	⅛ in	—	1PFD4
	5⁄32 in or 4mm	—	1PFC9 †
	¼ in	—	1PFD5
	5⁄16 in or 8mm	—	1PFD2
	⅜ in	—	1PFV5
	½ in	—	1PFV6
	6mm	—	1PFD1 †
	10mm	—	1PFD3
	12mm	—	4GWX9
	16mm	—	19D062 **

	Tube Size	Pipe Size	Item No.
Tube O.D. Union			
	⅛ in x ¼ in	—	1PEW2
	⅛ in	—	1PEV2
	5⁄32 in x ¼ in	—	5WTJ5
	5⁄32 in or 4mm	—	1PEU9
	3⁄16 in	—	4GXJ5
	¼ in	—	1PEV6
	5⁄16 in or 8mm	—	1PEV1
	⅜ in x ¼ in	—	1PEW5
	⅜ in x ½ in	—	5WTJ6
	⅜ in	—	1PEV7
	½ in	—	1PEV8
	4 x 6mm	—	5WTJ7
	6mm	—	1DED8
	6 x 8mm	—	5WTJ8
	10mm x 12mm	—	5WTJ9
	10mm	—	1DED9
	12mm	—	1DEF1
	14mm	—	1DEF2
	16mm	—	19D056 **

	Tube Size	Pipe Size	Item No.
90° Union Elbow			
	⅛ in	—	1PEP5
	⅛ in x ¼ in	—	4GXK6
	5⁄32 in or 4mm	—	1PEP3
	5⁄32 in x ¼ in	—	4GXK7
	3⁄16 in	—	5WTH4
	¼ in	—	1PEP6
	5⁄16 in or 8mm	—	1PEP4
	⅜ in	—	1PEP7
	⅜ in x ¼ in	—	4CJR9
	⅜ in x ½ in	—	4CJT1
	½ in	—	1PEP8
	4mm x 6mm	—	5WTH5
	6mm	—	1DEB9
	10mm	—	1DED1
	12mm	—	1DED2
	14mm	—	1DED3
	16mm	—	19D057 **
Union Tee*			
	⅛ in x ¼ in	—	4GXJ6
	⅛ in	—	1PEU5
	5⁄32 in x ¼ in	—	4GXJ7
	5⁄32 in or 4mm	—	1PEU3
	3⁄16 in	—	5WTH7
	¼ in x ⅛ in	—	4GXJ8
	¼ in x 5⁄32 in	—	4GXJ9
	¼ in x ⅜ in	—	4GXK1
	¼ in	—	1PEU6
	5⁄16 in or 8mm	—	1PEU4
	⅜ in x ½ in	—	4GXK3
	⅜ in x ¼ in	—	4GXK2
	⅜ in	—	1PEU7
	½ in x ¼ in	—	4GXK4
	½ in x ⅜ in	—	4GXK5
	½ in	—	1PEU8
	4mm x 6mm	—	5WTH8
	6mm x 4mm	—	5WTH9
	6mm x 8mm	—	5WTJ0
	6mm	—	1DED4
	8mm, 5⁄16 in x 6mm	—	5WTJ1
	8mm x 10mm	—	5WTJ2
	10mm x 8mm	—	5WTJ3
	10mm	—	1DED5
	12mm	—	1DED6
	14mm	—	1DED7
	16mm	—	19D058 **
	16mm x 12mm	—	19D059 **
Union Y			
	⅛ in	—	1DDR3
	5⁄32 in or 4mm	—	1DEF8
	5⁄32 in x ¼ in	—	1DDR2
	3⁄16 in	—	5WTK0
	¼ in	—	1DDR5
	¼ in x ⅜ in	—	1DDR6
	5⁄16 in or 8mm	—	1DEG3
	⅜ in	—	1DDR7
	4 x 6mm	—	1DEF9
	6mm	—	1DEG1
	6 x 8mm	—	1DEG2
	8 x 10mm	—	1DEG4
	10mm	—	1DEG5
	10 x 12mm	—	1DEG6
	12mm	—	1DEG7
Equal Cross			
	¼ in	—	1DCE2
	5⁄16 in or 8mm	—	1DCG9
	6mm	—	1DCE6
Bulkhead Union			
	⅛ in	—	1PFT9
	5⁄32 in	—	1PFC5
	¼ in	—	1PFC6
	5⁄16 in or 8mm	—	1DEF4
	⅜ in	—	1PFC7
	½ in	—	1PFV3
	6mm	—	1DEF3
	10mm	—	1DEF5

** Tees read: run x run x outlet. † Pkg. qty.: 50. ** Sold as each.*
 # Temp. range: 5 to 155°F; Max. pressure: 260 psi; Bare brass.

Swift-Fit Universal Nickel-Plated Brass Push-To-Connect Fittings

AIGNEP

- Max. pressure: 290 psi
- Temp. range: 0° to 200°F
- ⅛" to ⅜" and 3mm to 8mm fittings sold in pkg. of 5
- ½" and 10mm to 14mm fittings sold in pkg. of 3

Feature universal threads that are compatible with NPT, BSPP, BSPT, ISO 7, ISO 228, G, and J style female pipe threads. The fitting design allows you to carry only 1 thread style and helps you avoid wasting time trying to identify the thread pitch of each fitting before connecting to tubing. Buna thread seal and innovative internal lip seal helps eliminate leaks; no need to use PTFE tape or thread sealants. Fittings can be used with copper, nylon, polyethylene, and polyurethane tubing and are suitable for use in pneumatics, robotics, and water applications.

Tube Size	Pipe Size	Male Connection Long Item No.	Male Connection Item No.	Male Swivel Elbow, 90 Degrees Item No.	Male Swivel Branch Tee* Item No.	Male Swivel Run Tee* Item No.
⅛ in	⅛ in	—	5UPJ1	5UPL5	5UPP2	5UPR6
⅛ in	¼ in	—	5UPJ2	—	5UPP3	5UPR7 ‡
⅛ in	10-32	5UPK9	—	—	—	—
5/32 in	⅛ in	5UPL3	5UPK7	5UPP0	5UPR4	5UPT8
5/32 in	¼ in	—	5UPK8	5UPP1	5UPR5	5UPT9
5/32 in	10-32	5UPL4	—	—	—	—
¼ in	⅛ in	5UPL0	5UPJ3	5UPL7	5UPP4	5UPR8
¼ in	¼ in	5UPL1	5UPJ4	5UPL8	5UPP5	5UPR9 †
¼ in	⅜ in	—	5UPJ5	5UPL9	5UPP6	5UPT0
¼ in	10-32	5UPL2	—	—	—	—
5/16 in	⅛ in	—	5UPJ6	5UPN0	—	—
5/16 in	¼ in	—	5UPJ7	5UPN1	—	—
5/16 in	⅜ in	—	5UPJ8	5UPN2	—	—
⅜ in	⅛ in	—	5UPJ9	5UPN3	5UPP7	5UPT1
⅜ in	¼ in	—	5UPK0	5UPN4	5UPP8	5UPT2
⅜ in	⅜ in	—	5UPK1	5UPN5	5UPP9	5UPT3
⅜ in	½ in	—	5UPK2	5UPN6	5UPR0	5UPT4
½ in	⅛ in	—	5UPK3	—	—	—
½ in	¼ in	—	5UPK4	5UPN7	5UPR1	5UPT5
½ in	⅜ in	—	5UPK5	5UPN8	5UPR2	5UPT6
½ in	½ in	—	5UPK6	5UPN9	5UPR3	5UPT7
3mm	3/16	1WUN1	1WUN9	1WUW7	1WUZ8	1WVB8
4mm	⅛ in	1WUN2	1WUL1	1WUV8	1WUY9	—
4mm	3/16	1WUN3	1WUP1	1WUW8	1WUZ9	1WVB9
4mm	¼ in	—	1WUK9	1WUV7	1WUY8	1WVA8
5mm	⅛ in	—	1WUL3	1WUV9	1WUZ1	1WVB1
5mm	¼ in	—	1WUL2	—	—	—
6mm	⅛ in	—	1WUN5	1WUW2	1WUZ3	1WVB3
6mm	⅛ in	—	1WUL5	—	—	—
6mm	3/16	1WUN6	—	—	1WVA2	1WVC2
6mm	¼ in	1WUN4	1WUL4	1WUW1	1WUZ2	1WVB2
8mm	⅛ in	1WUN8	1WUL8	1WUW5	1WUZ6	1WVB6
8mm	¼ in	1WUN7	1WUL7	1WUW4	1WUZ5	1WVB5
8mm	⅜ in	—	1WUL9	1WUW6	1WUZ7	1WVB7
8mm	½ in	—	1WUL6	1WUW3	1WUZ4	1WVB4
10mm	¼ in	—	1WUK2	1WUV1	1WUY2	1WVA4
10mm	⅜ in	—	1WUK3	1WUV2	1WUY3	1WVA5
10mm	½ in	—	1WUK1	1WUT9	1WUY1	1WVA3
12mm	¼ in	—	1WUK5	—	—	—
12mm	⅜ in	—	1WUK6	1WUV4	1WUY5	1WVA7
12mm	½ in	—	1WUK4	1WUV3	1WUY4	1WVA6
14mm	⅜ in	—	1WUK8	1WUV6	1WUY7	—
14mm	½ in	—	1WUK7	1WUV5	1WUY6	—

Tube Size	Union Item No.	Union Tee* Item No.	Bulkhead Union Item No.
⅛ in	6MM83	6MM87	—
¼ in	6MM84	6MM88	6MN24
⅜ in	6MM85	6MM89	6MN25
½ in	6MM86	6MM90	6MN26

Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Union Tee* Item No.	Union Y Item No.
⅛ in	31TT74	31TT80	—	31TT86
5/32 in	31TT75	31TT81	31TT83	31TT87
¼ in	31TT76	—	—	31TT88
5/16 in	31TT77	31TT82	31TT84	31TT89
⅜ in	31TT78	—	—	31TT90
½ in	31TT79	—	—	—

Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Tube Union Item No.	Union Tee* Item No.	Union Y Item No.
Tube O.D.					
3mm	1WUX5	—	1WUR5	1WVC6	1WVD2
4mm	1WUX6	1WUT5	1WUR6	1WVC7	1WVD3
5mm	1WUX7	1WUT6	1WUR7	1WVC8	1WVD4
6mm	1WUX8	1WUT7	1WUR8	1WVC9	1WVD5
8mm	1WUX9	1WUT8	1WUT1	1WVD1	1WVD6
10mm	1WUX2	1WUT3	1WUR2	1WVC3	—
12mm	1WUX3	1WUT4	1WUR3	1WVC4	—
14mm	1WUX4	—	1WUR4	1WVC5	—

Inlet Port Size (in.)	Outlet Port Size	Filter Rating (microns)	Temp. Rating (°F)	H (in.)	L (in.)	Inline Filter Item No.
¼ Tube	¼ in	40	15 To 176	.75	2.6	5UPG9
⅜ Tube	⅜ in	40	15 To 176	.75	2.8	5UPH0

** Tees read: run x run x outlet. † Length is 1.654". ‡ Length is 1.339".*

Nickel-Plated Brass Push-To-Connect Fittings

AIGNEP

- Max. pressure: 290 psi
- Temp. range: 0° to 200°F
- ⅛" to ⅜" and 4mm to 8mm tube size sold in pkg. of 5
- ½" and 10mm to 14mm tube size sold in pkg. of 3

An integrated Buna O-ring provides an additional seal, and fittings can be used with copper, nylon, polyethylene, and polyurethane tubing. Compatible with compressed air, inert gas, and nonpotable water.

Tube Size	Thread Size	Male Swivel Branch Tee* Item No.
⅛ in	⅛"	6MN17
¼ in	⅛"	6MN18
¼ in	¼"	6MN19
⅜ in	¼"	6MN20
⅜ in	⅜"	6MN21
½ in	½"	6MN22
6mm	⅛"	1WUZ3
6mm	¼"	1WUZ2

Tube Size	Tube Reducer Item No.	Tube Union Item No.
Tube O.D. Reducing Fittings		
4 x 3mm	1WVD9	—
5mm x 4mm	1WVE1	—
6mm x 4mm	1WVE2	1WUR9
6mm x 5mm	1WVE3	—
8 x 6mm	1WVE4	1WUT2
10 x 8mm	1WVD7	—
12mm x 8mm	1WVD8	—

Tube Size	Thread Size	Female Connector Item No.	Male Connector Item No.	Male Swivel Elbow, 90 Degrees Item No.
⅛ in	⅛"	6MM93	6MM99	6MN09
5/32 in	⅛"	6MM91	—	—
¼ in	⅛"	6MM94	6MN01	6MN10
¼ in	¼"	6MM95	6MN02	6MN11
¼ in	10-32	—	6MN03	—
⅜ in	⅛"	—	6MN04	6MN13
⅜ in	¼"	6MM96	6MN05	6MN14
⅜ in	⅜"	6MM97	6MN06	6MN15
½ in	½"	—	6MN07	6MN16
4mm	⅛"	—	—	1WUV8
6mm	—	—	1WUL4	—
6mm	⅛"	—	1WUL5	1WUW2
6mm	⅛"	—	1WUN5	—
6mm	¼"	—	—	1WUW1
6mm	5mm	—	—	1WUX1
8mm	—	—	—	1WUW4
8mm	⅛"	—	1WUL8	1WUW5
8mm	¼"	—	1WUL7	—
8mm	⅜"	—	—	1WUW6
10mm	¼"	—	1WUK2	1WUV1
10mm	⅜"	—	—	1WUV2
12mm	½"	—	1WUK4	—

** Tees read: run x run x outlet.*

Portable 115VAC Electric Oil-Free Air Compressors

1VAN7

5Z683

45PL19

Speedaire—Has steel hotdog tank and rubber feet for added stability on uneven surfaces.

Rolair—Intake filter/silencer helps compressor operate at a quiet 60dB. Motor and pump are fully enclosed by a roll cage, for use in rugged environments. On-the-job life expectancy of approximately 2000 hr.

Thomas—Starts at 100 psi. 38-sec. recovery time.

DeWalt—Has a roll cage, 2 gauges, and a factory-installed coupler.

Porter Cable—1VAN5 has 2 couplers. Motor starts easily in cold weather; upgraded shroud has rugged carry handle.

1VAN5

413X03

HP	Full Load Amps	Tank Size	Free Air CFM @ Max. Pressure	Max. Pressure	Weight	Overall L	Overall W	Overall H	Brand	Mfr. Model	Item No.
Hot Dog											
0.3 hp	2.6	1.0 gal	0.3	135 psi	24 lb	19 in	14.5 in	9 in	DeWalt	D55140	**1VAN7**
0.5 hp	4.2	2.0 gal	0.7	125 psi	26 lb	16.5 in	8 in	16.81 in	Thomas	T-617 HDN	**5Z683**
0.75 hp	12.0	3.0 gal	2.0	135 psi	40 lb	20 in	9 in	19 in	Speedaire	45PL19	**45PL19**
1.0 hp	7.5	2.5 gal	0.2	150 psi	45 lb	16.5 in	16.5 in	14 in	Rolair	JC10PLUS	**413X03**
1.1 hp	12.0	2.5 gal	1.6	200 psi	37 lb	20.5 in	16.75 in	12.5 in	DeWalt	DWFP55130	**22YJ96**
1.6 hp	15.0	4.5 gal	3.0	200 psi	83 lb	33.5 in	23 in	15 in	DeWalt	D55146	**445K70**
Pancake											
0.8 hp	10.0	6.0 gal	—	150 psi	29 lb	18 in	18.37 in	15 in	Porter Cable	C2002	**1VAN5**
0.8 hp	10.0	6.0 gal	2.0	150 psi	30 lb	18 in	19 in	18.31 in	Porter Cable	C2002-WK	**54DF06**

Portable Electric Oil-Lubricated Air Compressors

22YJ55

1VAP1

11X355

Speedaire—11X355 has a cast-iron cylinder, heavy-duty roll bar, and vibration-absorbing rubber feet. 2MLW5 has an aluminum-head cylinder with cast-iron sleeve.

Rolair—Contractor-grade professional units have cast-iron cylinders and low amp-draw motors. 26JY35 and 26JY36 feature an easily maneuvered dolly cart design and a user-friendly control panel. 26JY35 also has a tool box for convenient storage.

Jenny—Unit features a heavy-duty steel tank and frame mounted on antivibration feet. Comes standard with cast-iron cylinder soft-start direct-drive pump, with safety valves, pressure regulator, and gauges.

Makita—Durable low-noise compressors feature pumps with oil-lubricated cast-iron cylinders and big-bore pistons; provide outstanding performance and fast recovery time.

DeWalt—Have a side-stack tank design, cast-iron cylinder, dual soft-start valves, and ball drain. 1VAN9 is wheeled.

26JY34

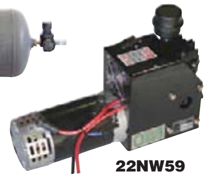
26JY10

HP	Input Voltage	Full Load Amps	Tank Size	Free Air CFM @ Max. Pressure	Max. Pressure	Weight	Overall L	Overall W	Overall H	Brand	Mfr. Model	Item No.
Hot Dog												
2.0 hp	120V AC	15.0	4.0 gal	4.1	200 psi	132 lb	26.18 in	22.12 in	19.87 in	Speedaire	2MLW5	**2MLW5**
2.0 hp	120V AC	12.3	3.2 gal	3.9	125 psi	80 lb	21 in	21 in	31 in	Rolair	VT20TB	**26JY35**
2.0 hp	120V AC	12.4	2.6 gal	—	130 psi	52 lb	19.5 in	11.5 in	23.5 in	Makita	MAC700	**22YJ55**
2.5 hp	120V AC	13.8	5.3 gal	5.9	130 psi	108 lb	19 in	19 in	37 in	Rolair	VT25BIG	**26JY36**
3.0 hp	120V AC	13.8	5.2 gal	—	140 psi	88 lb	20.5 in	30 in	21 in	Makita	MAC5200	**22YJ54**
Twin Stack												
1.1 hp	120V AC	14.0	4.0 gal	2.7	125 psi	54 lb	18.5 in	15 in	16.75 in	DeWalt	D55151	**1VAP1**
1.1 hp	120V AC	14	4.0 gal	—	125 psi	87 lb	22 in	18.5 in	23 in	DeWalt	D55154	**1VAN9**
1.3 hp	120V AC	15.0	4.0 gal	4.0	125 psi	71 lb	19.62 in	18.87 in	17.87 in	Speedaire	11X355	**11X355**
2.0 hp	120V AC	14.6	4.3 gal	3.9	135 psi	62 lb	20 in	15 in	17 in	Rolair	FC2002	**26JY34**
2.0 hp	120V AC	12.6	4.2 gal	3.3	125 psi	58 lb	20 in	15.5 in	16.5 in	Jenny	A2G246-HC4V-115/1	**26JY10**

Vehicle-Mounted 12V and 24VDC Oil-Lubricated Air Compressors

Designed to be mounted on service trucks, tow trucks, and maintenance vehicles, for commercial and industrial use. Fan-cooled cylinder head and motor. Mounts on a tank or with accessory packages, sold separately.

53XG20



22NW59

HP	Free Air CFM @ Max. Pressure	Max. Pressure	Full Load Amps	Overall Length	Overall Width	Overall Height	Brand	Weight	Item No.
12V DC									
2.2 hp	8.0	200 psi	160	40 in	10 in	26 in	Oasis	152 lb.	**53XG20**
2.2 hp	8.0	200 psi	180	21 in	7 in	11 in	Oasis	67 lb	**22NW59**
24V DC									
2.2 hp	8.0	200 psi	90	21 in	7 in	11 in	Oasis	67 lb	**22NW60**
2.2 hp	8.0	200 psi	90	40 in	10 in	26 in	Oasis	152 lb.	**53XG21**

Description	Item No.
Vehicle Mounted Air Compressor Accessory Kit	**3MMC1**

40CF16

1NNF6

Portable Electric Barrel Air Compressors

DEWALT SPEEDAIRE ROLAIR

Feature ASME code tank, pressure regulator, and 2 pressure gauges.

Speedaire®—40CF16 features 225 psi to help increase tool run time. Includes a tank safety valve and quick connect release for attaching/removing air hose. 1NNF6 feature 2-cylinder cast-iron pumps with belt-drive design.

DeWalt®—Efficient high-Pressure (EHP) pump features ball drain valve and air hose storage. Low noise at 78dBA per ISO3744.

Rolair—Induction motor design with a cast-iron cylinder. Include foam-filled tires, coupler(s), and regulator.

HP	Tank Size	Free Air CFM @ 90 PSI	Full Load Amps	Input Voltage	Max. Pressure	Includes	Overall L	Overall W	Overall H	Weight	Brand	Mfr. Model	Item No.
Oilless Pump													
Horizontal													
1.6 hp	15 gal	5.0	15.0	120V AC	225 psi	—	39.62 in	16.5 in	30 in	83 lb	DeWalt	D55167	**445K72**
Vertical													
1.6 hp	15 gal	5.0	15.0	120V AC	225 psi	—	24.5 in	22 in	44.75 in	92 lb	DeWalt	D55168	**445K71**
1.7 hp	15 gal	5.1	15.0	120V AC	225 psi	—	17 in	18 in	42 in	99 lb	Speedaire	40CF16	**40CF16**
Oil-Lubricated Pump													
Horizontal													
1.5 hp	20 gal	7.3	17.0	120V AC	135 psi	Accessory Support Clip	42 in	22 in	34 in	200 lb	Rolair	5520MK103-0072	**35DZ67**
2.0 hp	15 gal	5.5	15.0	120V AC, 240V AC	135 psi	Handle, Oil, Pressure Switch, Regulator, Wheels	32.5 in	19.5 in	29.5 in	136 lb	Speedaire	52YM09	**52YM09**
	20 gal	5.5	15.0/7.5	120V AC, 240V AC	135 psi	—	33 in	19.5 in	31 in	138 lb	Speedaire	1NNF6	**1NNF6**
3.0 hp	20 gal	10.2	15.7	240V AC	135 psi	—	33 in	19.5 in	31 in	165 lb	Speedaire	1NNF7	**1NNF7**
Vertical													
2.0 hp	20 gal	5.0	15.0	120V AC	200 psi	—	19.31 in	19.68 in	41.43 in	128 lb	Speedaire	2MLW4	**2MLW4**
	20 gal	5.5	15.0/7.5	120V AC, 240V AC	135 psi	—	24 in	19 in	46 in	129 lb	Speedaire	4TW29	**4TW29**
	24 gal	5.1	14.6	120V AC	125 psi	Flat-Free Foam Filled Tires, Gauge, Regulator, Twin Couplers	23 in	28 in	44 in	160 lb	Rolair	FC250090L	**26JY37**
	30 gal	5.5	15.0/7.5	120V AC, 240V AC	135 psi	Bull Horn Handles, Gauge, Pneumatic Wheels, Regulator, Wire Belt Guard	26 in	23 in	47 in	178 lb	Speedaire	48UY04	**48UY04**

26JY12

26JY38

Wheelbarrow Electric Air Compressors

Jenny ROLAIR

Jenny—Includes pressure regulator, pressure gages, stainless steel braided discharge hose, manual tank drains, antivibration feet, and flat-free tires. Cast-iron pump construction. UL Listed and CSA Certified.

Rolair—Include foam-filled tires, regulator, oil sight gauge, and ball valve drain. Induction-type motor and cast-iron cylinder. 35DZ69 and 35DZ68 can run start/stop or continuous.

HP	Input Voltage	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	Full Load Amps	Overall L	Overall W	Overall H	Weight	Mfr. Model	Brand	Item No.
1.5 hp	120V AC, 240V AC	7.8 gal	7.4	125 psi	15.8/7.9	42.5 in	18.25 in	24.75 in	179 lb	K15A-8P-115/1	Jenny	**26JY12**
1.5 hp	120V AC, 240V AC	9.0 gal	7.3	135 psi	17.1/8.6	46 in	19 in	28 in	174 lb	5715K17	Rolair	**26JY38**
3.0 hp	240V AC	9.0 gal	12.7	150 psi	17.9	46 in	27 in	29 in	270 lb	3230K24-0095	Rolair	**35DZ68**
5.0 hp	240V AC	9.0 gal	18.8	150 psi	28	46 in	27 in	34 in	310 lb	5230K30-0095	Rolair	**35DZ69**

4NB86

6EWK6

Gas Engine-Powered Air Compressor/Generators

SPEEDAIRE

- 2-Stage (except 4NB86 is 1-stage)

Use Compressor Oil 4ZF21, sold separately on page 2568, and Engine Oil 1UBX8, sold separately. Honda engines have low-oil shutdown.

Wheelbarrow Portable—Produce up to 3500W (except 4NB86 is 1600W) with compressor off-load. Splash-lubricated compressor has cast-iron cylinders. Generator includes one 120V, 15A duplex receptacle and one 230V, 20A receptacle (4NB86 only has one 120V, 15A duplex receptacle).

Stationary—Cast-iron pumps are oil splash-lubricated. Combine 2-stage air compressor with 120V generator rated at 3500W with compressor off-load. Generator includes one 120V, 15A duplex receptacle and one 230V, 20A receptacle. 6EWK4 and 6EWK6 do not include battery and cables. 3.8-hr. full load run time.

Engine HP	Rated Watts	Tank Size	Tank Style	Engine Starter Type	Fuel Tank Capacity	(F)NPT Outlet	Free Air CFM @ 90 PSI	Max. Pressure	Sound Level	Overall L	Overall W	Overall H	Weight	Item No.
Wheelbarrow Portable														
6.5 hp	600/1600	8.0 gal	Wheelbarrow	Recoil	0.95 gal	¼ in	11.9	125 psi	74.8 dB	44.5 in	26 in	27.5 in	207 lb	**4NB86**
13.0 hp	2300/3500	8.0 gal	Twin	Recoil	1.7 gal	¼ in	17.0	175 psi	80.4 dB	44 in	22 in	34 in	365 lb	**13N456**
	2300/3500	8.0 gal	Twin	Electric	1.7 gal	¼ in	17.0	175 psi	80.4 dB	44 in	22 in	34 in	370 lb	**13N457**
Stationary														
13.0 hp	2300/3500	8.0 gal	Twin	Recoil	1.7 gal	¼ in	17.0	175 psi	80.4 dB	44 in	22 in	32 in	360 lb	**4NB87**
	2300/3500	8.0 gal	Twin	Electric	1.7 gal	¼ in	17.0	175 psi	80.4 dB	44 in	22 in	32 in	370 lb	**6EWK4**
	2300/3500	30 gal	Horizontal	Recoil	1.7 gal	¼ in	17.0	175 psi	80.4 dB	40 in	24.5 in	45 in	435 lb	**6EWK5**
	2300/3500	30 gal	Horizontal	Electric	1.7 gal	¼ in	17.0	175 psi	80.4 dB	40 in	24.5 in	45 in	445 lb	**6EWK6**

487J39

39GC06

Compressor/Generator/Welders

SPEEDAIRE

Combine 3 separate machines in 1 unit. 2-stage air compressor is rugged cast-iron construction. Stainless steel braided discharge hose with regulator and 2 gauges for tank and outlet pressure. Generator has 120V alternator with 4500W-rated AC output (rating is offload for No. 487J39; continuous for No. 39GC06). Generator includes two 120V, 20A duplex receptacles and one 120V/240V, 20A twist-lock receptacle. Arc welder features amperage selector switch with 50A to 170A for No. 487J39, and 220A for No. 39GC06 DC voltage working range. Subaru EX 420cc OHV engine for No. 487J39 and Honda V-Twin 688cc engine for No. 39GC06, both with electric start. Battery and cables not included.

Engine HP	Rated Watts	Free Air CFM @ 90 PSI	Tank Size	Tank Style	(F)NPT Outlet	Fuel Tank Capacity	Engine Starter Type	Max. Pressure	Welder Output Amp Range	Overall Length	Overall Width	Overall Height	Weight	Item No.
14.0 hp	3000/4500	17.0	30 gal	Horizontal	¼ in	1.7 gal	Electric, Recoil	175 psi	50 to 170	46 in	22 in	47 in	650 lb	**487J39**
22.0 hp	4500	30.5	20 gal	Horizontal	¼ in	10.0 gal	Electric	175 psi	50 to 220	47 in	24 in	47.5 in	803 lb	**39GC06**

SPEEDAIRE®

Portable Gas Engine-Powered Air Compressors

- Horizontal tank

Low-oil shutdown in engines. 4GB42 features a wraparound frame and includes regulator, 2 pressure gauges, cast-iron cylinder, and quick-connect fitting. 4B220 and 4B241 have throttle control, pressure regulator, gauge and splash lubricated cast-iron compressor pump. 4NB84 and 4GB45 include throttle control, pressure regulator, 2 gauges, and a oil-splash-lubricated cast-iron pump.

4GB42

4B241

Engine HP	Engine Brand	Tank Size	Tank Style	Free Air CFM @ 90 PSI	Max. Pressure	(F)NPT Outlet	Pump RPM	Engine Oil Capacity	Overall L	Overall W	Overall H	Weight	Item No.
Single-Stage, Oil-Lubricated													
4.0 hp	Honda	5.0 gal	Twin	4.6	125 psi	¼ in	3,000	20 oz	21.5 in	17.5 in	21.75 in	76 lb	**4GB42**
5.5 hp	Honda	20 gal	Horizontal	10.2	135 psi	¼ in	1,020	21 oz	33 in	19.75 in	31.25 in	157 lb	**4B241**
	Briggs	20 gal	Horizontal	10.2	135 psi	¼ in	1,020	21 oz	19.75 in	19.75 in	31.25 in	153 lb	**4B220**
6.5 hp	Honda	30 gal	Horizontal	13.9	125 psi	⅜ in	1,260	20 oz	46 in	27.5 in	40 in	244 lb	**4NB84**
2-Stage, Oil-Lubricated													
9.0 hp	Honda	20 gal	Horizontal	18.3	175 psi	⅜ in	864	37 oz	46 in	26 in	41.5 in	337 lb	**4GB45**

Jenny AIR COMPRESSOR, Ingersoll Rand, Chicago Pneumatic, SPEEDAIRE®

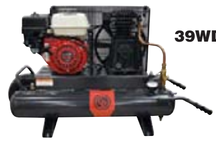
Wheelbarrow Gas Engine-Powered Air Compressors

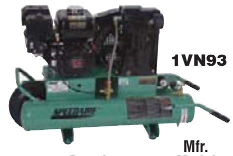
Speedaire®—Cast-iron, oil-lubricated pump construction with 100% continuous run. Include throttle control, 2 pressure gauges, 2 quick-connect couplers, and regulator. 2YJ61 is a 2-stage compressor. Honda engine has low-oil shutdown.

Ingersoll Rand—100% continuous-duty cast-iron pump includes air regulator, gauge, and 2 quick disconnects to power multiple air tools.

Chicago Pneumatic—Heavy-duty and feature solid cast-iron cylinders for strength and aluminum heads for excellent cooling and long pump life. Include high-flow belt guards, loadless start, and engine idle control.

4YW08


39WD98


1VN93

Engine HP	No. of Stages	Tank Size	Free Air CFM @ 90 PSI	Max. Pressure	(F)NPT Outlet	Engine Oil Capacity	Overall L	Overall W	Overall H	Weight	Brand	Mfr. Model	Item No.
5.5 hp	1	8.0 gal	11.6	125 psi	⅜ in	20 oz	45 in	23 in	34 in	215 lb	Jenny	K5HGA-8P	**54DH94**
	1	17 gal	11.6	125 psi	⅜ in	20 oz	45 in	23 in	43 in	245 lb	Jenny	K5HGA-17P	**54DH95**
	1	8.0 gal	11.8	135 psi	⅜ in	20 oz	43 in	18 in	26 in	175 lb	Ingersoll Rand	SS3J5.5GH-WB	**4YW08**
	1	8.0 gal	12.4	130 psi	⅜ in	19.5 oz	46 in	23 in	26 in	200 lb	Chicago Pneumatic	RCP5530	**39WD98**
6.5 hp	1	8.0 gal	13.9	125 psi	⅜ in	20 oz	44.5 in	18.5 in	26 in	171 lb	Speedaire	1VN93	**1VN93**
9.0 hp	1	8.0 gal	17.8	125 psi	⅜ in	38 oz	45 in	23 in	34 in	270 lb	Jenny	G9HGA-8P	**54DH98**
	1	17 gal	17.8	125 psi	⅜ in	38 oz	45 in	23 in	43 in	295 lb	Jenny	G9HGA-17P	**54DH99**
	2	8.0 gal	18.3	175 psi	⅜ in	37 oz	44 in	26 in	33 in	288 lb	Speedaire	2YJ61	**2YJ61**

SPEEDAIRE®, Ingersoll Rand, Chicago Pneumatic

Stationary Gas Engine-Powered Air Compressors

SPEEDAIRE®

Models feature heavy-duty, 100% cast-iron, continuous-duty air compressor pump. Pneumatic idle control conserves fuel and extends the life of the pump. Tanks include tank drain, pressure gauge, and safety valves.

40JL42—Has easy recoil engine with low oil shut-down.

4NB85—Pneumatic idle control conserves fuel and features low-oil alert protection. Includes regulator and 2 gauges.

5F564, 4LW38, and 6EWK7—Feature low oil shut-down, 12V alternators, and recoil start option. 6EWK7 also includes regulator, outlet pressure gauge, and a flexible stainless steel braided exhaust tube.

INGERSOLL RAND

Heavy-duty, 100% cast-iron, continuous-duty compressors. Corrosion-resistant powder-coated paint finish.

CHICAGO PNEUMATIC

These service truck compressors feature heavy-duty, cast-iron pumps and include oil and filters. Full 2-yr. manufacturer's warranty on compressor and engine including valves.

4LW38

6WA84

39WE02

Engine HP	No. of Stages	Tank Size	Engine Brand	Engine Starter Type	Alternator Included	Max. Pressure	(F)NPT Outlet	Overall L	Overall W	Overall H	Brand	Mfr. Model	Item No.
5.5 hp	1	30 gal	Honda	Recoil	No	135 psi	½ in	41 in	22 in	38 in	Speedaire	40JL42	**40JL42**
9.0 hp	2	30 gal	Honda	Recoil	No	175 psi	⅜ in	40 in	18.5 in	43.5 in	Speedaire	4NB85	**4NB85**
13.0 hp	2	30 gal	Honda	Electric, Recoil	Yes	175 psi	½ in	41 in	22 in	48 in	Speedaire	4LW38	**4LW38**
	2	30 gal	Honda	Electric, Recoil	Yes	175 psi	½ in	45 in	22 in	41 in	Ingersoll Rand	2475F13GH	**6WA84**
	2	30 gal	Honda	Electric, Recoil	Yes	175 psi	¾ in	44 in	19 in	43 in	Chicago Pneumatic	RCPC1330G	**39WE02**
	2	80 gal	Honda	Electric, Recoil	Yes	175 psi	⅜ in	52 in	26.5 in	53 in	Speedaire	6EWK7	**6EWK7**
14.0 hp	2	30 gal	Kohler	Electric, Recoil	Yes	175 psi	½ in	41 in	22 in	48 in	Speedaire	5F564	**5F564**
	2	30 gal	Kohler	Electric, Recoil	Yes	175 psi	½ in	45.1 in	22 in	41 in	Ingersoll Rand	2475F14G	**6TFH6**
	2	30 gal	Kohler	Electric, Recoil	Yes	175 psi	¾ in	44 in	19 in	43 in	Chicago Pneumatic	RCPC1430G	**39WE03**

SPEEDAIRE®

Stationary Diesel Engine-Powered Air Compressor

Dependable, oil-lubricated 2-stage pump. Complete with 12V alternator, electric start with key, manifold muffler with guard, and oil pressure warning lights. Base-mounted unit without tanks.

Engine HP	Engine Brand	Engine Starter Type	(F)NPT Outlet	Pump RPM	Overall L	Overall W	Overall H	Item No.
9.1 hp	Kohler	Electric, Recoil	½ in	870	39 in	21 in	30 in	**2EPN7**

Jenny

Fire Sprinkler Air Compressors and Pumps

- 115/230V

Single stage with durable powder-coated finish.

Fire Sprinkler Air Compressors—Single-stage, splash-lubricated compressors are rugged cast-iron construction with a large flywheel for extra cooling and to ease start-up. Feature a directional air shroud to reduce pump temp., large canister intake filter with replaceable filter elements, totally enclosed heavy-duty belt guard, and an open dripproof motor with thermal overload protection.

- Max. pressure: 40 psi

Air Compressor Pumps—Cast-iron pumps have stainless steel valves and use synthetic oil for longer life. 35KV12 has head unloaders.

- Max. pressure: 150 psi

31LC92

31LC99

HP	Free Air CFM @ Max. Pressure	Phase	Amps	Tank Size	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Fire Sprinkler Air Compressors										
Base Mounted										
0.5 hp	3.8	1	9.4/4.7	—	½ in	25.75 in	16.25 in	18.25 in	F12S-BS-115/1-ACGF	**31LC94**
1.0 hp	7.4	1	12.5/6.3	—	½ in	25.75 in	16.25 in	18.25 in	K1S-BS-115/1-ACGK	**31LC95**
1.5 hp	10.9	1	15.8/7.9	—	½ in	25.75 in	16.25 in	18.25 in	K15S-BS-115/1-ACGK	**31LC96**
2.0 hp	12.4	1	21.6/10.8	—	½ in	25.75 in	16.25 in	18.25 in	K2S-BS-115/1ACGK	**31LC97**
Tank Mounted										
0.5 hp	3.7	1	9.4/4.7	30 gal	½ in	40 in	18 in	33.5 in	F12S-30UMS-115/1	**26JY13**
1.0 hp	7.4	1	12.5/6.3	30 gal	½ in	40 in	18 in	34 in	K1S-30UMS-115/1	**31LC92**
1.5 hp	10.9	1	15.8/7.9	30 gal	½ in	40 in	18 in	34 in	K15S-30UMS-115/1	**31LC93**
2.0 hp	10.5	1	21.3/10.7	30 gal	½ in	40 in	18 in	34 in	K2S-30UMS-115/1	**26JY14**

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM	Oil Cap.	NPT Outlet	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Air Compressor Pumps										
⅓ hp, 1 hp	2.1	1,200	6 21/64 in	8 fl oz	½ in	10 ⅛ in	A	1	F-PUMP	**31LC98**
1 hp, 2 hp	6.7	1,200	6 21/64 in	32 fl oz	½ in	10 ⅛ in	A	1	K-PUMP	**31LC99**
1 hp, 2 hp	6.7	1,200	6 21/64 in	32 fl oz	½ in	10 ⅛ in	A	1	KU-PUMP	**35KV12** *

** Has head unloaders.*

4B242

Base-Plate Air Compressors

SPEEDAIRE

- Designed to cycle On/Off while providing continuous air with an 80/20 duty cycle
- All compressors must be hardwired
- Max. pressure: 40 psi

2-cylinder cast-iron pumps can be used in many fire sprinkler applications (check local codes and regulations). Prewired (240V) with pneumatic control package.

HP	Free Air CFM @ Max. Pressure	Phase	Input Voltage	Amps	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Item No.
2.0 hp	11.6	1	120V AC, 240V AC	17.5/8.75	½ in	22.5 in	15.5 in	14.75 in	**4B242**
3.0 hp	12.3	3	200 to 240V AC, 480V AC	9.0-7.5/3.9	½ in	22.5 in	15.5 in	14.75 in	**4B243**

SPEEDAIRE

Climate Control Air Compressors

- 3-phase duplex units require 115V for control panel power
- Max. pressure: 90 psi
- Simplex: 70 psi On/90 psi Off
- Duplex: 70 psi On/90 psi Off (lead), 60 psi On/80 psi Off (lag)
- All compressors must be hardwired
- Horizontal tank with ¾" (F)NPT outlet and brass ball valves

Deliver published cfm at stated rpm and pressure and to be below 2 ppm in oil carryover. Use for new, replacement, or upgrade HVAC installations and instrument air applications. Simplex packages include mounted and wired magnetic starter (except 1-phase); duplex packages include mounted and wired alternator and 2 magnetic starters. For duplex models, use twice the oil capacity (Compressor Oil 4ZF21 is recommended, sold separately on page 2568).

5Z702

HP	RPM	Pump Cylinders	Bore	Stroke	Oil Cap. (oz.)
¾*	980	1	1.97	2.56	15
1	1120	1	1.97	2.56	15
1½	860	1	2.56	2.56	15
3	1050	2	2.56	2.36	24

HP	Free Air Flow Rate @ Max. Pressure	Tank Size	Input Voltage	Amps	Phase	Overall Length	Overall Width	Overall Height	Item No.
Simplex									
0.75 hp	2.1 cfm	30 gal	120V AC, 240V AC	10.2/5.1	1	42.5 in	21.25 in	38 in	**5Z696**
0.75 hp	2.1 cfm	30 gal	208 to 240V AC, 480V AC	3.6-3.0/1.5	3	42.5 in	21.25 in	38 in	**5Z697**
1.0 hp	3.4 cfm	30 gal	120V AC, 240V AC	13.4/6.7	1	42.5 in	21.25 in	38 in	**3JR83**
1.5 hp	4.5 cfm	60 gal	208 to 240V AC, 480V AC	4.5-4.4/2.2	3	50.75 in	22.25 in	40 in	**5Z699**
3.0 hp	10.1 cfm	80 gal	208 to 240V AC, 480V AC	8.9-8.1/4.1	3	65.5 in	23.25 in	34 in	**5Z701**
Duplex									
0.75 hp	4.2 cfm	30 gal	208 to 240V AC, 480V AC	7.4-6.2/3.1	3	41.5 in	21.25 in	38 in	**5Z698**
1.0 hp	6.8 cfm	30 gal	208 to 240V AC, 480V AC	6.4-6.2/3.1	3	41.5 in	21.25 in	38 in	**3JR81**
1.5 hp	9 cfm	80 gal	208 to 240V AC, 480V AC	9.3-9.0/4.5	3	64.25 in	22.25 in	39 in	**5Z700**
3.0 hp	11 cfm	80 gal	208 to 240V AC, 480V AC	18.2-16.5/8.2	3	65.25 in	23.25 in	34 in	**5Z702**

** For altitudes over 5000 ft., flow will be reduced; select 1 HP instead.*

Mobile Engine-Driven Air Compressors and Compressor/Generator

VANAIR. MOBILE POWER SOLUTIONS

Rotary screw-type with electric start. Include a lifetime manufacturer's warranty on the compressor and are Tier 4 compliant.

Removed from 414 - all skus disco with replacements in book

Viper Air Compressors—Can easily power a 90-lb. jackhammer and include a 12V cold weather protection kit. Diesel models feature an automatic variable throttle control to help reduce fuel consumption.

Viper Air Compressor/Generator—Features multi-functioning capabilities and provides air and AC power in 1 portable unit. Can run at full load for up to 4 hr. and is easy to transport via fork lift or pallet truck.

PowerFlex™ Air Compressor/Generator—Diesel-powered model provides air and AC power in one easily transportable unit. Includes a 12V cold weather protection kit.

Air N Arc® Compressor/Generator/Welder/Battery Charge System—Multifunction systems include a 12V cold weather protection kit and 25-ft. weld and boost cables. Battery boost cables are available on Grainger.com®.

39CC74

39CC68

39CC70

Description	Free Air CFM @ Max. Pressure	Max. Pressure	(F)NPT Outlet	Rated Watts	Fuel Type	Fuel Tank Capacity	Overall Length	Overall Width	Overall Height	Weight	Item No.
Viper Air Compressors											
Viper G60	60.0	150 psi	¾ in	—	Gasoline	5.0 gal	45.16 in	23.5 in	29.75 in	480 lb.	**39CC67**
Viper G80	59.0	100 psi	¾ in	—	Gasoline	5.0 gal	45.16 in	23.5 in	29.75 in	480 lb.	**39CC74**
Viper D60	60.0	150 psi	¾ in	—	Diesel	9.0 gal	48 in	21 in	33 in	800 lb.	**39CC75**
Viper D80	80.0	100 psi	¾ in	—	Diesel	9.0 gal	47 in	24 in	38 in	800 lb.	**39CC71**
Viper Air Compressor/Generator											
—	40.0	100 psi	¾ in	5000/5200	Gasoline	5.0 gal	42 in	33 in	34.5 in	685 lb	**4TZW4**
PowerFlex™ Air Compressor/Generator											
Powerflex AE	40.0	150 psi	¾ in	7000	Diesel	12.0 gal	47.6 in	21 in	33.4 in	803 lb	**39CC70**
Air N Arc® Compressor/Generator/Welder/Battery Charge System											
Air N Arc® 300 Gas	40.0	175 psi	¾ in	7000	Gasoline	12.0 gal	47 in	21 in	31 in	700 lb	**39CC68**
Air N Arc® 300 Diesel	40.0	175 psi	¾ in	7000	Diesel	12.0 gal	47 in	21 in	33 in	865 lb	**39CC73**

SPEEDAIRE® Ingersoll Rand

Single-Stage Tank Mounted Air Compressors

- 60-gal. vertical tank; 30-gal. horizontal tank

Required All-Season Select Synthetic Lubricant 2YY83 eliminates valve carboning; sold separately on page 2568. Required Stationary Air Compressor Start-Up Kit 4M579 is sold separately on page 2568.

SPEEDAIRE®
- Tanks have safety valve, pressure gauge, and manual tank drain
- Thermally protected single-phase motors do not require a starter
- Cycle On/Off while providing continuous air with an 80/20 duty cycle

INGERSOLL RAND®
- Hardened steel crank shaft with precision bearings
- Splash lubrication
- Continuous duty
- Must be hardwired

4B234

4ME98

4YW10

Output Power	Free Air Flow Rate @ Max. Pressure	Max. Pressure	Phase	Input Voltage	Amps	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
Horizontal												
2 hp	4.9 cfm	135 psi	1	120V AC, 240V AC	15.0/7.5	¼ in	40.62 in	21.62 in	38 in	Speedaire	4B234	**4B234**
3 hp	9.1 cfm	135 psi	3	200 to 240V AC, 480V AC	9.0-7.5/3.9	¼ in	40.62 in	21.62 in	38 in	Speedaire	4B237	**4B237**
Vertical												
2 hp	4.9 cfm	135 psi	1	120V AC, 240V AC	15.0/7.5	½ in	26.25 in	19 in	52 in	Speedaire	4B233	**4B233**
3 hp	9.1 cfm	135 psi	1	240V AC	15.7	¾ in	23 in	25 in	66 in	Speedaire	4ME96	**4ME96**
	10.3 cfm	135 psi	1	240V AC	14.7	½ in	20 in	23 in	66 in	Ingersoll Rand	SS3L3	**4YW09**
5 hp	14.2 cfm	140 psi	3	208 to 240V AC, 480V AC	13.4-13.2/6.6	¾ in	23 in	31 in	71 in	Speedaire	4ME98	**4ME98**
	14.2 cfm	140 psi	1	240V AC	21	¾ in	23 in	31 in	71 in	Speedaire	4ME97	**4ME97**
	15.5 cfm	135 psi	1	240V AC	21.5	½ in	20 in	30 in	71 in	Ingersoll Rand	SS5L5	**4YW10**

SPEEDAIRE®

2-Stage Pressure-Lubricated Air Compressors

- Low rpm for long service life
- Dual control
- Pressure switch set 140 psi On/175 psi Off
- Shipped with initial fill of specially blended oil
- All compressors must be hardwired
- Max. pressure: 175 psi

Direct, positive displacement oil pump lubricates all critical internal components. Spin-on oil filter, oversized intake filter/silencer, and totally enclosed belt guard. 80/20 duty cycle. 100% duty cycle can be achieved with the use of Speedaire® Synthetic-Based Lubricant 1WG49, sold separately on page 2568.

Note: These units do not include motor starter.

1WD90

HP	Tank Size	(F)NPT Outlet	Phase	Input Voltage	Amps	Motor Starter No.	Thermal Unit Code	Overall Length	Overall Width	Overall Height	Item No.
Horizontal											
5	80 gal	½ in	Single	208V AC	22.3/20.6	11W192	—	66 in	22.5 in	49 in	**4XA64**
	80 gal	½ in	Three	208 to 240V AC, 480V AC	14/13.8/6.9	5PZX7	6GDX6/6GDX5	66 in	22.5 in	49 in	**1WD82**
7½	80 gal	½ in	Single	208V AC	36/35	11W201	—	51 in	22.5 in	49 in	**4XA66**
	80 gal	½ in	Three	208 to 240V AC, 480V AC	21.7/20/10	11V718	—	66.5 in	22.5 in	49 in	**1WD86**
10	120 gal	¾ in	Three	200 to 208V AC	30.8	11W205	—	71.39 in	26 in	52.79 in	**1WD87**
	120 gal	¾ in	Three	240V AC, 480V AC	26.8/13.4	11W205	—	71.39 in	26 in	52.79 in	**1WD88**
15	120 gal	¾ in	Three	240V AC, 480V AC	40.6/20.3	4DF23	—	71.39 in	26 in	52.79 in	**1WD90**
Vertical											
5	80 gal	½ in	Single	208V AC	23.0/21.0	11W192	—	35 in	27 in	75 in	**4XA63**
	80 gal	½ in	Three	208 to 240V AC, 480V AC	14/13.8/6.9	5PZX7	6GDX6/6GDX5	35 in	27 in	75 in	**1WD80**
7½	80 gal	½ in	Single	208V AC	36/35	11W201	—	35 in	27 in	75 in	**4XA65**
	80 gal	½ in	Three	208 to 240V AC, 480V AC	21.7/20/10	11V718	—	35 in	27 in	75 in	**1WD84**

SPEEDAIRE®

2-Stage Duplex Air Compressors

- Low rpm for long service life
- Must be hardwired
- Fully enclosed belt guard
- Expected pump life: 15,000 hr.
- Max. pressure: 175 psi

Allow you to maximize energy efficiency by automatically alternating between 2 compressors or by operating both simultaneously. 100% duty cycle can be achieved with use of Speedaire® Synthetic-Based lubricant 1WG49, sold separately on page 2568.

Note: Not for use with climate controlled systems.

35WC61

HP	Tank Size	Free Air CFM @ Max. Pressure	Phase	Input Voltage	Amps	Overall Length	Overall Width	Overall Height	Item No.
5	120 gal	32.8	1	208 to 230V AC	44	69 in	32 in	51 in	**35WC60**
	120 gal	32.8	3	208 to 230V AC, 460V AC	28.4-25.6/12.8	69 in	32 in	51 in	**35WC61**
7½	120 gal	49.0	1	208 to 230V AC	62.8	69 in	32 in	51 in	**35WC62**
	120 gal	49.0	3	208 to 230V AC, 460V AC	39.6-35.8/18	69 in	32 in	51 in	**35WC63**
10	200 gal	72.0	3	208 to 230V AC, 460V AC	54-48.8/24.4	91 in	32 in	60 in	**35WC64**
15	200 gal	100	3	208 to 230V AC, 460V AC	82.2-74.4/37.2	91 in	32 in	60 in	**35WC65**

4R774

3FRU4

Ingersoll Rand

Type 30 2-Stage Air Compressors

- Expected pump life: 15,000 hr.
- 100% continuous duty
- Tank with manual drain and discharge isolation valve
- Must be hardwired
- Max. pressure: 175 psi

Cast-iron compressors feature totally enclosed belt guard and splash lubrication. 5- and 7½-HP models have automatic Start/Stop control. 10-HP vertical models have automatic Start/Stop control and oil sight glass. 15-HP models have dual control for automatic Start/Stop or constant speed operation and Low Oil Guard Shutdown Switch 4ZJ95.

FULLY PACKAGED

Compressors include air-cooled aftercooler to remove additional moisture, low oil protection switch to prevent pump from running dry, and electronic drain valve.

Mfr. Model	Item No.
Low Oil Guard	
32276313	**4ZJ95**

HP	Input Voltage	Amps	Phase	Tank Size	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
Base Model										
Horizontal										
10.0	200V AC	31	3	120 gal	¾ in	72 in	29 in	52 in	2545E10-V-200/3	**4TN87**
	240V AC	27	3	120 gal	¾ in	72 in	29 in	52 in	2545E10-V-230/3	**4MJ04**
	480V AC	13.3	3	120 gal	¾ in	72 in	29 in	52 in	2545E10-V-460/3	**4MJ05**
15.0	200V AC	48.3	3	120 gal	1 in	72 in	29 in	52 in	7100E15-V-200/3	**4R778** *
	240V AC, 480V AC	42/21	3	120 gal	1 in	72 in	29 in	52 in	7100E15-V-230/3	**4R774** *
Vertical										
5.0	200V AC	17.3	3	60 gal	½ in	32 in	30 in	69 in	2340L5-V-200/3	**4L976**
	200V AC	17.5	3	80 gal	½ in	32 in	24 in	67 in	2340N5-V-200/3	**1WF61**
	230V AC	12.3	3	60 gal	½ in	33.12 in	20 in	69 in	2340L5-V-230/3	**16V888**
	240V AC	28	1	60 gal	½ in	32 in	30 in	69 in	2340L5-V-230/1	**4L977**
	240V AC	28	1	80 gal	½ in	48 in	40 in	76 in	2340N5-V-230/1	**1WF59**
	240V AC	15.3	3	80 gal	½ in	31.5 in	20 in	67 in	2340N5-V-230/3	**16V898**
	460V AC	7.6	3	60 gal	½ in	32 in	20 in	69 in	2340L5-V-460/3	**16V889**
	480V AC	6.17	3	80 gal	½ in	37.12 in	24 in	68.5 in	2340N5-V-460/3	**16V899**
7.5	200V AC	25.3	3	80 gal	¾ in	37 in	28 in	70 in	2475N7.5-V-200/3	**4M361**
	240V AC	40	1	80 gal	¾ in	37 in	28 in	70 in	2475N7.5-V-230/1	**4M310**
	240V AC	22	3	80 gal	¾ in	36.5 in	24 in	70 in	2475N7.5-V-230/3	**16V886**
	480V AC	11	3	80 gal	¾ in	36.5 in	24 in	70 in	2475N7.5-V-460/3	**16V887**
10.0	200V AC	31	3	120 gal	1 in	38.25 in	32 in	82 in	2545K10-V-200/3	**1WF64**
	240V AC	27	3	120 gal	¾ in	38.25 in	32 in	82 in	2545K10-V-230/3	**1WF63**
	480V AC	13.3	3	120 gal	1 in	38.25 in	32 in	82 in	2545K10-V-460/3	**1WF65**
Fully Packaged, Splash Lubricated										
Horizontal										
10.0	200V AC	28.1	3	120 gal	¾ in	72 in	30 in	56 in	2545E10-P-200-3	**3FRU6**
	240V AC	24.4	3	120 gal	¾ in	70.43 in	27.81 in	49.93 in	2545E10-P-230/3	**16V892**
	460V AC	14	3	120 gal	¾ in	70.43 in	27.81 in	49.93 in	2545E10-P-460/3	**16V893**
15.0	240V AC	37.1	3	120 gal	1 in	70.43 in	31.68 in	57.06 in	7100E15-P-230/3	**16V896**
	480V AC	18.6	3	120 gal	1 in	70.43 in	31.68 in	57.06 in	7100E15-P-460/3	**16V897**
Vertical										
5.0	200V AC	14.4	3	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N5-P-200-3	**3FRU3**
	240V AC	22.9	1	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N5-P-230-1	**3FRU2**
	240V AC	12.5	3	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N5-P-230/3	**20Y778**
	480V AC	6.25	3	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N5-P-460/3	**20Y779**
7.5	200V AC	21.1	3	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N7.5-P-200/3	**20Y780**
	240V AC	32.0	1	80 gal	¾ in	38.12 in	24 in	70.12 in	2475N7.5-P-230-1	**3FRU4**
	240V AC	22	3	80 gal	¾ in	36.31 in	24 in	70 in	2475N7.5-P-230/3	**16V890**
	480V AC	9.18	3	80 gal	¾ in	36.31 in	24 in	70 in	2475N7.5-P-460/3	**16V891**
10.0	240V AC	24.4	3	120 gal	1 in	44.31 in	30 in	76 in	2545K10-P-230/3	**16V894**
	480V AC	12.2	3	120 gal	1 in	44.31 in	30 in	76 in	2545K10-P-460/3	**16V895**

** Motor starter is required*

35WC53

35WC47

35WC55

SPEEDAIRE

2-Stage Air Compressors

- Expected pump life: 15,000 hr., except where noted
- 100% duty cycle (with use of synthetic oil)
- Must be hardwired
- Max. pressure: 175 psi

Deliver higher pressure than 1-stage models with low RPM for long life. Feature a totally enclosed, safety-designed belt guard. All models include an oil sight glass, pressure gauge, and pressure safety valve.

FULLY PACKAGED

The included air-cooled aftercooler can remove up to 60% of moisture from compressed air. The automatic tank drain helps remove water from the tank before it gets carried into the air distribution system. Vibration isolators help reduce operating noise and vibrational stress on the tank.

HP	Tank Size	Phase	Input Voltage	Amps	(F)NPT Outlet	Overall Length	Overall Width	Overall Height	BASE MODEL Item No.	FULLY PACKAGED Item No.
2-Stage Air Compressors, General Duty, 12,000 hr. Pump Life										
Vertical										
5.0 hp	80 gal	1	230V AC	22	¾ in	35 in	27 in	71 in	**35WC82** *	—
	80 gal	3	208 to 230V AC	14.2-12.8	¾ in	35 in	27 in	71 in	**35WC83** *	—
2-Stage Air Compressors, Industrial Duty, 15,000 hr. Pump Life										
Horizontal										
5.0 hp	80 gal	3	208 to 230V AC, 460V AC	14.2-12.8/6.4	¾ in	63 in	21 in	46 in	**35WC41**	**35WC46**
	80 gal	1	208 to 230V AC	22	¾ in	63 in	21 in	46 in	**35WC84**	**35WC44**
7.5 hp	80 gal	3	208 to 230V AC, 460V AC	19.8-17.9/9	¾ in	63 in	21 in	46 in	**35WC49**	**35WC52**
10.0 hp	120 gal	3	208 to 230V AC, 460V AC	27-24.4/12.2	¾ in	69 in	25 in	54 in	**35WC53**	**35WC55**
	120 gal	3	200V AC	28.1	¾ in	69 in	25 in	54 in	**35WC57**	—
15.0 hp	120 gal	3	208 to 230V AC, 460V AC	41.1-37.2/18.6	¾ in	69 in	25 in	54 in	**35WC54**	**35WC56**
	120 gal	3	200V AC	42.8	¾ in	69 in	25 in	54 in	**35WC59**	—
Vertical										
5.0 hp	80 gal	1	208 to 230V AC	22	¾ in	35 in	27 in	71 in	**35WC40**	**35WC43**
	80 gal	3	208 to 230V AC, 460V AC	14.2-12.8/6.4	¾ in	35 in	27 in	71 in	**35WC42**	**35WC45**
7.5 hp	80 gal	1	208 to 230V AC	31.4	¾ in	35 in	27 in	71 in	**35WC47**	**35WC50**
	80 gal	3	208 to 230V AC, 460V AC	19.8-17.9/9	¾ in	35 in	27 in	71 in	**35WC48**	**35WC51**
10.0 hp	90 gal	3	208 to 230V AC, 460V AC	27-24.4/12.2	¾ in	52 in	30 in	69 in	**35WC67**	—
	90 gal	3	208 to 230V AC, 460V AC	27-24.4/12.2	¾ in	52 in	24 in	69 in	—	**35WC68**

** NEMA 1 starter not included.*

40JE79

40JE57

Chicago Pneumatic

Rotary Screw Compressors

20 to 50 HP models with dryer also include 1 coalescing filter.

QRS Series—Designed for continuous-duty operation at full compressor output without affecting compressor life. The 61 to 74dB sound level allows indoor installation.

- Max. pressure: 150 psi (5 to 7.5 HP, 10 HP with 60 gal. tank); 125 psi (10 HP with 120 gal. tank, 15 to 30 HP)
- Ambient temp.: 34°F to 104°F
- Belt drive

CPC, CPD, and CPBg Series—Designed with a low sound enclosure and feature whisper quiet operation, rapid single-panel maintenance, Wye-delta, reduced voltage start, and an electronic control unit that provides energy saving operation with intelligent shutdown. The 70 to 78 dB sound level allows indoor installation. Base mount.

- Max. pressure: 125 psi
- Ambient temp. 32°F to 104°F
- Gear drive: 40, 50, and 100 HP; belt drive: 60 and 75 HP

Note: See page 2567 for Maintenance Kits.

HP	Phase	Input Voltage	Full Load Amps	Free Air CFM @ Max. Pressure	Tank Size	(F)NPT Outlet	Overall Length	Overall Depth	Overall Height	Mfr. Model	Item No.
QRS Series, Horizontal Tank											
5	1	230V AC	26.7	16.6	60 gal	½ in	56 in	22 in	49.4 in	QRS 5 HP	**40JE21**
	3	208 to 230V AC, 460V AC	18.4/15.8/7.9	16.6	60 gal	½ in	56 in	22 in	49.4 in	QRS 5 HP	**40JE65**
7.5	1	230V AC	36	21.2	60 gal	½ in	56 in	22 in	49.4 in	QRS 7.5 HP	**40JE66**
	3	208 to 230V AC, 460V AC	21.5/19.5/9.9	21.2	60 gal	½ in	56 in	22 in	49.4 in	QRS 7.5 HP	**40JE80**
10	3	208 to 230V AC, 460V AC	25.26/22.84/11.42	39.6	132 gal	½ in	76.8 in	28.3 in	57.8 in	QRS 10 HP	**40JE30**
	3	208 to 230V AC, 460V AC	32.2/28/14	33	60 gal	¾ in	59 in	25 in	54 in	QRSM 10 HP	**40JE87**
15	3	208 to 230V AC, 460V AC	33.59/30.37/15.19	55.9	120 gal	½ in	76.8 in	28.3 in	57.8 in	QRS 15 HP	**40JE48**
20	3	208 to 230V AC, 460V AC	58/52/26	76	120 gal	1 in	71 in	32 in	73 in	QRS 20 HP	**40JE76**
25	3	208 to 230V AC, 460V AC	70/62/31	92	120 gal	1 in	71 in	32 in	73 in	QRS 25 HP	**40JE85**
30	3	208 to 230V AC, 460V AC	88/80/40	110	120 gal	1 in	71 in	32 in	73 in	QRS 30 HP	**40JE54**
QRS Series with Dryer, Horizontal Tank											
5	1	230V AC	26.7	16.6	60 gal	½ in	56 in	22 in	49.4 in	QRS 5 HPD	**40JE22**
	3	208 to 230V AC, 460V AC	18.4/15.8/7.9	16.6	60 gal	½ in	56 in	22 in	49.4 in	QRS 5 HPD	**40JE26**
7.5	1	230V AC	36	21.2	60 gal	½ in	56 in	22 in	49.4 in	QRS 7.5 HPD	**40JE67**
	3	208 to 230V AC, 460V AC	21.5/19.5/9.9	21.2	60 gal	½ in	56 in	22 in	49.4 in	QRS 7.5 HPD	**40JE90**
10	3	208 to 230V AC, 460V AC	25.26/22.84/11.42	39.6	120 gal	½ in	76.8 in	28.3 in	57.8 in	QRS 10 HPD	**40JE58**
	3	208 to 230V AC, 460V AC	32.2/28/14	33	60 gal	¾ in	59 in	25 in	54 in	QRSM 10 HPD	**40JE64**
15	3	208 to 230V AC, 460V AC	33.59/30.37/15.19	55.9	120 gal	½ in	76.8 in	28.3 in	57.8 in	QRS 15 HPD	**40JE79**
20	3	208 to 230V AC, 460V AC	58/52/26	76	120 gal	1 in	71 in	32 in	73 in	QRS 20 HPD	**40JE39**
25	3	208 to 230V AC, 460V AC	70/62/31	92	120 gal	1 in	71 in	32 in	73 in	QRS 25 HPD	**40JE28**
30	3	208 to 230V AC, 460V AC	88/80/40	110	132 gal	1 in	71 in	32 in	73 in	QRS 30 HPD	**40JE75**
CPC, CPD & CPBg Series, Tankless											
40	3	240V AC, 480V AC	107/54.7	175.4	—	1 ¼ in	53.1 in	30.7 in	62.2 in	CPBg 40 HP	**40JE81**
50	3	240V AC, 480V AC	107/54.7	204.5	—	1 ¼ in	53.1 in	30.7 in	62.2 in	CPBg 50 HP	**40JE99**
60	3	230V AC	179.6	261	—	1 ½ in	51 in	42 in	64 in	CPC 60	**40JE83**
	3	460V AC	89.8	261	—	1 ½ in	51 in	42 in	64 in	CPC 60	**40JE74**
75	3	230V AC	209.3	305	—	2 in	56 in	42 in	64 in	CPD 75	**40JE84**
	3	460V AC	104.7	305	—	2 in	56 in	42 in	64 in	CPD 75	**40JE44**
100	3	230V AC	272.5	402	—	2 in	75.7 in	41.7 in	64.7 in	CPD 100 G	**40JE24**
	3	460V AC	136.3	402	—	2 in	75.7 in	41.7 in	64.1 in	CPD 100 G	**40JE53**
CPBg Series with Dryer, Tankless											
40	3	240V AC, 480V AC	107/54.7	175.4	—	1 ¼ in	72 in	30.7 in	62.2 in	CPBg 40 HPD	**40JE72**
50	3	240V AC, 480V AC	107/54.7	204.5	—	1 ¼ in	53.1 in	30.7 in	62.2 in	CPBg 50 HPD	**40JE57**

Ingersoll Rand

Rotary Screw Compressors

53RU34

Note: For Air Compressors over 50HP, go to Grainger.com® and search by "50HP Air Compressors."

R-Series Premium Tank-Mount—Feature premium-efficiency IE3 motors, sequential cooling system, and a standard microprocessor controller. PTFE stainless steel braided oil hoses, O-ring face seals, and leak-free air ends. 69dB sound level.

- Soft-starting star delta starters

UP6-Series Tank-Mount—Reliable design with dual controls and high-efficiency IE2 motors. 65 to 69dB sound level.

- Dedicated voltage ODP motors
- Full voltage starters

R-Series and UP6-Series Total Air System —Integrated compressor and dryer systems provide clean, dry air. Each horizontal tank-mounted unit includes a rotary screw compressor, refrigerated air dryer, moisture separator, coalescing and particulate filtration, receiver tank, and controls.

40AY71

1ZPT7

HP	Input Voltage	Phase	Full Load Amps	Max. Pressure	Tank Size	(F)NPT Outlet	Overall Length	Overall Depth	Overall Height	Mfr. Model	Item No.
R-Series Premium Tank-Mount											
5.0 hp	230V AC	1	32.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R4I-A125/80-230-1	**40AY68**
	200V AC	3	18.7	125 psi	80 gal	¾ in	38 in	27 in	47 in	R4I-A125/80-200-3	**40AY74**
	230V AC	3	17.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R4I-A125/80-230-3	**40AY58**
	460V AC	3	9.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R4I-A125/80-460-3	**40AY84**
7.5 hp	230V AC	1	44.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R5.5I-A125/80-230-1	**40AY83**
	200V AC	3	26.6	125 psi	80 gal	¾ in	38 in	27 in	47 in	R5.5I-A125/80-200-3	**40AY72**
	230V AC	3	24.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R5.5I-A125/80-230-3	**40AY55**
	460V AC	3	12.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R5.5I-A125/80-460-3	**40AY79**
10.0 hp	460V AC	3	16.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R7.5I-A125/80-460-3	**40AY69**
	230V AC	3	32.0	125 psi	80 gal	¾ in	38 in	27 in	47 in	R7.5I-A125/80-230-3	**40AY75**
	208V AC	3	34.7	125 psi	80 gal	¾ in	38 in	27 in	47 in	R7.5I-A125/80-200-3	**40AY81**
15.0 hp	230V AC	3	46.0	125 psi	120 gal	¾ in	38 in	27 in	47 in	R11I-A125/120-230-3	**40AY67**
	460V AC	3	24.0	125 psi	120 gal	¾ in	38 in	27 in	47 in	R11I-A125/120-460-3	**40AY86**
	208V AC	3	51.2	125 psi	120 gal	¾ in	38 in	27 in	47 in	R11I-A125/120-200-3	**40AY90**
40.0 hp	230V AC	3	122.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS30i-A125/230	**53RU34**
	460V AC	3	61.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS30i-A125/460	**53RU35**
	575V AC	3	49.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS30i-A125/575	**53RU36**
50.0 hp	230V AC	3	139.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125/230	**53RU40**
	460V AC	3	70.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125/460	**53RU41**
	575V AC	3	56.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125/575	**53RU42**
UP6-Series Tank-Mount											
5.0 hp	230V AC	1	23.5	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5-125/80-230-1	**6WA78**
	200V AC	3	15.4	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5-125/80-200-3	**6WA80**
	230V AC	3	13.5	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5-125/80-230-3	**6WA79**
	460V AC	3	6.7	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5-125/80-460-3	**6WA81**
7.5 hp	230V AC	1	34.1	125 psi	80 gal	¾ in	71 in	29 in	56.3 in	UP6-7.5-125/80-230-1	**4RU64**
	200V AC	3	22	125 psi	80 gal	¾ in	71 in	29 in	56.3 in	UP6-7.5-125/80-200-3	**4RU65**
	230V AC	3	19.6	125 psi	80 gal	¾ in	71 in	29 in	56.3 in	UP6-7.5-125/80-230-3	**4RU66**
	460V AC	3	9.8	125 psi	80 gal	¾ in	71 in	29 in	56.3 in	UP6-7.5-125/80-460-3	**4RU67**
10.0 hp	200V AC	3	30.3	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-10-125/80-200-3	**4RU68**
	240V AC	3	26.4	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-10-125/80-230-3	**6WA82**
	480V AC	3	13.2	125 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-10-125/80-460-3	**4RU69**
15.0 hp	200V AC	3	43.1	125 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15C-125/120-200-3	**4RU70**
	230V AC	3	37.4	125 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15C-125/120-230-3	**6WA83**
	460V AC	3	18.7	125 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15C-125/120-460-3	**4RU71**
R-Series Tank-Mount Total Air System (Premium Compressor with Dryer and Filtration Package)											
5.0 hp	230V AC	1	39.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R4I-A135-TAS/80-230-1	**40AY62**
	230V AC	3	24.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R4I-A135-TAS/80-230-3	**40AY78**
	460V AC	3	12.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R4I-A135-TAS/80-460-3	**40AY82**
	208V AC	3	25.8	135 psi	80 gal	¾ in	68 in	28 in	68 in	R4I-A135-TAS/80-200-3	**40AY89**
7.5 hp	230V AC	1	50.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R5.5I-A135-TAS/80-230-1	**40AY59**
	208V AC	3	33.8	135 psi	80 gal	¾ in	68 in	28 in	68 in	R5.5I-A135-TAS/80-200-3	**40AY64**
	230V AC	3	31.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R5.5I-A135-TAS/80-230-3	**40AY76**
	460V AC	3	15.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R5.5I-A135-TAS/80-460-3	**40AY88**
10.0 hp	230V AC	3	38.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R7.5I-A135-TAS/80-230-3	**40AY57**
	208V AC	3	41.8	135 psi	80 gal	¾ in	68 in	28 in	68 in	R7.5I-A135-TAS/80-200-3	**40AY63**
	460V AC	3	19.0	135 psi	80 gal	¾ in	68 in	28 in	68 in	R7.5I-A135-TAS/80-460-3	**40AY80**
15.0 hp	208V AC	3	58.3	135 psi	120 gal	¾ in	72 in	28 in	72 in	R11I-A135-TAS/120-200-3	**40AY54**
	230V AC	3	53.0	135 psi	120 gal	¾ in	72 in	28 in	72 in	R11I-A135-TAS/120-230-3	**40AY66**
	460V AC	3	26.0	135 psi	120 gal	¾ in	72 in	28 in	72 in	R11I-A135-TAS/120-460-3	**40AY71**
40.0 hp	230V AC	3	128.0	118 psi	—	1 ½ in	77 in	42 in	61 in	RS30I-A118 TAS/230	**53RU37**
	460V AC	3	64.0	118 psi	—	1 ½ in	77 in	42 in	61 in	RS30I-A118 TAS/460	**53RU38**
	575V AC	3	52.0	118 psi	—	1 ½ in	77 in	42 in	61 in	RS30I-A118 TAS/575	**53RU39**
50.0 hp	230V AC	3	146.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125 TAS/230	**53RU43**
	460V AC	3	73.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125 TAS/460	**53RU44**
	575V AC	3	59.0	125 psi	—	1 ½ in	77 in	42 in	61 in	RS37i-A125 TAS/575	**53RU45**
UP6-Series Tank-Mount Total Air System (Compressor with Dryer & Filtration Package)											
5.0 hp	230V AC	1	23.5	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5TAS-150/80-230-1	**1ZPR3**
	200V AC	3	15.4	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5TAS-150/80-200-3	**1ZPR4**
	230V AC	3	13.2	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5TAS-150/80-230-3	**1ZPR5**
	460V AC	3	6.7	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-5TAS-150/80-460-3	**1ZPR6**
7.5 hp	230V AC	1	34.1	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-7.5TAS-150/80-230-1	**1ZPR7**
	200V AC	3	22	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-7.5TAS-150/80-200-3	**1ZPR8**
	230V AC	3	19.6	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-7.5TAS-150/80-230-3	**1ZPR9**
	460V AC	3	9.8	150 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-7.5TAS-150/80-460-3	**1ZPT1**
10.0 hp	200V AC	3	27.5	145 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-10TAS-150/80-200-3	**1ZPT2**
	230V AC	3	26	145 psi	80 gal	¾ in	71 in	29 in	57 in	UP6-10TAS-150/80-230-3	**1ZPT3**
	460V AC	3	13.2	150 psi	80 gal	¾ in	71 in	29 in	67 in	UP6TAS-10-150/80-460-3	**1ZPT4**
15.0 hp	200V AC	3	43.1	150 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15CTAS-150/120-200-3	**1ZPT5**
	230V AC	3	37.4	150 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15CTAS-150/120-230-3	**1ZPT6**
	460V AC	3	18.7	150 psi	120 gal	¾ in	75 in	29 in	61 in	UP6-15CTAS-150/120-460-3	**1ZPT7**

Rotary Screw Maintenance Kits and Accessories

Additional maintenance kits and accessories available on Grainger.com®.

INGERSOLL RAND®

Ultra Coolant—Provides 8000 hr. or 2 yr. of operation, extending maintenance intervals. Reference owner's manual to determine proper coolant type.

CHICAGO PNEUMATIC

Compressor Oil—Reference owner's manual and select oil based on service interval.
- Rotair—2000-hr. mineral-based oil
- Rotair Plus—4000-hr. blended oil

Maintenance Kits—Provide the required filters, fluids, and parts to help optimize your compressor's performance and enhance equipment longevity. Compressor oil not included.

Item	Container Size	Series	Brand	Item No.
Air Compressor Penetrants and Lubricants				
Compressor Oil	1.32 gal	—	Ingersoll Rand	**5HYK0**
	5.28 gal	—	Ingersoll Rand	**5HYK1**
	1.32 gal	Screwguard Rotair	Chicago Pneumatic	**40JE27**
	1.32 gal	Screwguard Rotair Plus	Chicago Pneumatic	**40JE94**
	5.28 gal	Screwguard Rotair	Chicago Pneumatic	**40JE91**
	5.28 gal	Screwguard Rotair Plus	Chicago Pneumatic	**40JE45**

For Use With	Brand	Item No.
V-Belts		
5 and 7.5 hp R-Series Units: 40AY55, 40AY58, 40AY59, 40AY62, 40AY64, 40AY68, 40AY72, 40AY74, 40AY76, 40AY78, 40AY79, 40AY82, 40AY83, 40AY84, 40AY88, 40AY89, 46Z608	Ingersoll Rand	**40AY73**
5 and 7.5 hp UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 6WA78, 6WA79, 6WA80, 6WA81	Ingersoll Rand	**6WA85**
7.5 hp UP6-Series Units: 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 4RU64, 4RU65, 4RU66, 4RU67	Ingersoll Rand	**4VE90**
10 hp R-Series Units: 40AY57, 40AY63, 40AY69, 40AY75, 40AY80, 40AY81	Ingersoll Rand	**40AY87**
10 hp UP6-Series Units: 1ZPT2, 1ZPT3, 4RU68, 4RU69, 6WA82	Ingersoll Rand	**4VE88**
15 hp R-Series Units: 40AY54, 40AY66, 40AY67, 40AY71, 40AY86, 40AY90	Ingersoll Rand	**40AY70**
15 HP UP6-Series Units: 1ZPT5, 1ZPT6, 1ZPT7, 4RU70, 4RU71, 6WA83	Ingersoll Rand	**4VE89**
25 and 30 hp UP6-Series Units: 3HGC6, 3HGD1, 3HGD2, 3HGD4, 3HGD5, 3HGC7, 3HGC8, 3HGC9, 3UB86, 3UB87, 3UB88, 3UB89	Ingersoll Rand	**4VE87**
Ingersoll Rand 25 HP (150 psi) and 30 HP (200 psi) UP6-Series Rotary Screw Air Compressors	Ingersoll Rand	**6WA86**

Item	For Use With	Brand	Item No.
Compressor Air Filter Elements			
Filter Element	5 to 15 hp UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	Ingersoll Rand	**40AY60**
	15 to 50 hp UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 6WA82, 53RU34, 53RU35, 53RU40, 53RU41	Ingersoll Rand	**4ZK03**
Parts			
Inlet Filter	—	Ingersoll Rand	**2CEN8**
Replacement Oil Filter	5 to 15 hp R- and UP6-Series Units: 1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	Ingersoll Rand	**4ZJ99**
	15 to 50 hp UP6-Series Units: 1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 6WA82 , 53RU34, 53RU35, 53RU40, 53RU41	Ingersoll Rand	**4VE86**

Item	Compatible Grainger Part No.	Includes	Brand	Model No.	Item No.
Air Compressor Separator Kits					
Air/Oil Separator	1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 3UB84, 40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	Element, O-Ring	Ingersoll Rand	24121212	**4VE84**
	1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 1ZPT2, 1ZPT3, 1ZPT4, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB84, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 4RU68, 4RU69, 53RU34, 53RU35, 53RU40, 53RU41, 6WA82	Element, O-Ring	Ingersoll Rand	54749247	**4VE85**
Maintenance and Replacement Part Kits					
Air Compressor Maintenance Kit	40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	(1) Air Filter Element, (1) Oil Filter Element, (1) Pre-Filter Pad, (1) Separator Element	Ingersoll Rand	47518611001	**40AY56**
	40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	(1) Air Filter Element, (1) Oil Filter Element, (1) Pre-Filter Pad, (1) Separator Element	Ingersoll Rand	47518595001	**40AY61**
	40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	(1) Coolant Filter, (1) Ultra Coolant 1 Liter	Ingersoll Rand	47518591001	**40AY85**
Air Compressor Maintenance Kit	40AY54, 40AY55, 40AY57, 40AY58, 40AY59, 40AY62, 40AY63, 40AY64, 40AY66, 40AY67, 40AY68, 40AY69, 40AY71, 40AY72, 40AY74, 40AY75, 40AY76, 40AY78, 40AY79, 40AY80, 40AY81, 40AY82, 40AY83, 40AY84, 40AY86, 40AY88, 40AY89, 40AY90	Filter and Gasket, Oil	Ingersoll Rand	47518608001	**40AY65**
Maintenance Kit	1ZPT2, 1ZPT3, 1ZPT5, 1ZPT6, 1ZPT7, 4RU68, 4RU69, 4RU70, 4RU71, 6WA82, 6WA83	1 L Ultra Coolant, Air Filter Element, Coalescing Filter 3EMG6, Filter 3EMG1, Filter 4 Pack, Oil Filter, Separator Cartridge	Ingersoll Rand	23360910	**5HYJ7**
Maintenance Kit (Ultra Coolant)	4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	1 L Coolant, Air Filter, Element Separator, Filter Panel, Oil Filter	Ingersoll Rand	23352149	**5HYJ3**
	3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89	(1) Air Filter Element, (1) Coolant Filter Element, (1) Filter Pad, (1) Separator Element, (1) Ultra Coolant 5 Liters	Ingersoll Rand	38462750	**5HYJ4**
	1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 53RU34, 53RU35, 53RU40, 53RU41	2 Separator Cartridges, 5 Lt. Oil, Air Filter Element, Coolant Filter, Package Pre-filter	Ingersoll Rand	38462776	**5HYJ5**
	1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPT1	(1) Air Filter Element, (1) Filter Element F71IG, (1) Filter Element F71IH, (1) Filter Panel, (1) Oil Filter Element, (1) Separator Element, (1) Ultra Coolant 1 Liter	Ingersoll Rand	23360928	**5HYJ6**
Start-up Kit	1ZPR3, 1ZPR4, 1ZPR5, 1ZPR6, 1ZPR7, 1ZPR8, 1ZPR9, 1ZPT1, 1ZPT2, 1ZPT3, 1ZPT4, 1ZPT5, 1ZPT6, 1ZPT7, 4RU64, 4RU65, 4RU66, 4RU67, 4RU68, 4RU69, 4RU70, 4RU71, 6WA78, 6WA79, 6WA80, 6WA81, 6WA82, 6WA83	1 L Oil, Coolant Filter	Ingersoll Rand	23352131	**5HYJ8**
	1NPK9, 1NPL1, 1NPL2, 1NPL3, 1NPL4, 1NPL5, 3HGC3, 3HGC4, 3HGC5, 3HGC6, 3HGC7, 3HGC8, 3HGC9, 3HGD1, 3HGD2, 3HGD3, 3HGD4, 3HGD5, 3UB85, 3UB86, 3UB87, 3UB88, 3UB89, 53RU34, 53RU35, 53RU40, 53RU41	5 Lt. Oil, Coolant Filter	Ingersoll Rand	38462743	**5HYJ9**
Air Compressor Maintenance Kit	40JE21, 40JE22, 40JE26, 40JE65, 40JE66, 40JE67, 40JE80, 40JE90	Air Filter Element, Oil Filter	Chicago Pneumatic	1312100549	**40JE25**
	40JE28, 40JE39, 40JE54, 40JE75, 40JE76, 40JE85	Air Filter Element, Coalescing Filter Element, O-Ring, Oil Filter	Chicago Pneumatic	2200902715	**40JE36**
	40JE21, 40JE22, 40JE26, 40JE65, 40JE66, 40JE67, 40JE80, 40JE90	Air Filter Element, Air Oil Separator, Oil Filter	Chicago Pneumatic	2200902301	**40JE41**
	40JE28, 40JE39, 40JE54, 40JE75, 40JE76, 40JE85	Air Filter Element, O-Ring, Oil Filter	Chicago Pneumatic	6229030400	**40JE43**
	40JE28, 40JE39, 40JE76, 40JE85	Air Filter Element, Air Oil Separator, Oil Filter	Chicago Pneumatic	2200902354	**40JE55**
	40JE30, 40JE48, 40JE58, 40JE79	Air Filter Element, Oil Filter	Chicago Pneumatic	2200902356	**40JE63**
	40JE54, 40JE75	Air Filter Element, Air Oil Separator, Inlet Panel Filter Mat, O-Rings, Oil Filter	Chicago Pneumatic	2200902714	**40JE96**

1WG49

Lubricants

Synthetic Based—Ideal for high- and low-temperature applications. Allow Speedaire reciprocating compressors to operate at 100% continuous duty.

Specialty Blend—Nondetergent industrial oil has rust and oxidation inhibitors specially formulated for reciprocating compressors. Reduces carbon buildup.

Size	Brand	Item No.
Synthetic Based		
1 qt	Speedaire	**1WG49**
1 L	Ingersoll Rand	**2YY83**
Specialty Blend		
1 qt	Speedaire	**1WG50**

Air Compressor Start-Up Kits

Electric Motor Kits—Include All Season Select lubricant, 2 inlet air filters, and product data sheet.

Gasoline Engine Kits—Include All Season Select lubricant and inlet air filters for the compressor pump, in addition to the manufacturer's engine oil, air filter, and oil filter when appropriate.

Includes	Mfr. Model	Item No.
Electric Motor Kits		
(2) Air Filter Element, (1) 1 L All Season Select Lubricant, Product Data Sheet, Safety Documentation	97338099	**4ZK07**
(2) Inlet Air Filters, 2 qt Lubricant, Product Data Sheet	20100251	**5ZL67**
Lubricant, Two Inlet Air Filters and Product Data Sheet	32305880	**4M579**
Lubricant, Two Inlet Air Filters and Product Data Sheet	32305898	**4M580**
Lubricant, Two Inlet Air Filters and Product Data Sheet	32305906	**4M581**
Gasoline Engine Kits		
Air Filter and Oil Filter, Lubricant and Inlet Air Filters for the Compressor Pump in Addition to the Manufacturers Engine Oil	97339501	**5ZL97**
(4) Lubricant, Air Filter and Oil Filter, Inlet Air Filters for the Compressor Pump, Manufacturer Engine Oil	32305872	**4KR55**
(2) Inlet Air Filters, Lubricant, Product Data Sheet	22235337	**2NU66**

4ZF21

34LR48

Lubricants for Air and Refrigeration Compressors

Renewable Lubricants—21A504 and 21A505 are a biobased/synthetic formula that can replace hydrocarbon oil-based compressor fluids. Ultimate biodegradable.

Ultimate Blue—100% synthetic, nondetergent oil features ashless antiwear additives plus rust and oxidation inhibitors.

SYNTHETIC AIR COMPRESSOR OIL

Highly resistant to oxidation and deposit formation in small portable and stationary reciprocating compressors. More sizes available on Grainger.com.

Mobil Rarus 800 Series—Recommended for single and multistage air compressors (not for breathing air applications). This oil is very effecitve for continuous high temperature operation with discharge temperatures up to 200.

Renewable Lubricants Bio-SynXtra Food Grade, Air Compressor—Biosynthetic oil is zinc-free. Provides superior antifoam, antirust, and demulsibility properties. Recommended for use in rotary, reciprocating, and centrifugal compressors.

REFRIGERATION COMPRESSOR OIL

Highly refined naphthenic base oil is suitable for reciprocating compressors (cylinders and bearings) using many types of refrigerants except sulfur dioxide. More sizes available on Grainger.com.

Renewable Lubricants Bio-SynXtra Food Grade, Refrigeration Compressor—Compatible with CO_2, ammonia, and R12 refrigerant systems.

FOOD GRADE COMPRESSOR OIL

For use in portable and stationary rotary vane and screw compressors, single-stage, 2-stage, and multistage reciprocating compressors. 36N465 features antifoam, antirust, and demulsibility properties. All items are biodegradable.

Description	Size	SAE Viscosity Grade	ISO Viscosity Grade	Viscosity Index	Viscosity @ 100C	Viscosity @ 40C	Flash Point	Brand	Mfr. Model	Item No.
Air Compressor Oil										
Rarus® 427 Non-Detergent	1 qt	30	100	100	11.6 cSt	104.6 cSt	264 °C	Mobil	123001	**4ZF21**
Rarus® 427	1 gal	30	100	100	11.6 cSt	104.6 cSt	264 °C	Mobil	101016	**4F978**
Bio-Air™, (AC-30)	1 qt	30	—	200	10.5 cSt	54 cSt	247 °C	Renewable Lubricants	84201	**36N465**
	1 gal	30	68	200	10.5 cSt	54 cSt	247 °C	Renewable Lubricants	84203	**21A504**
	5 gal	30	68	200	10.5 cSt	54 cSt	247 °C	Renewable Lubricants	84204	**21A505**
Ultimate Blue®	1 qt	30	100	136	13.63 cSt	100.48 cSt	507 °F	Jenny Ultimate Blue	105-1209	**34LR48**
	(12) 1 qt Containers	30	100	136	13.63 cSt	100.48 cSt	507 °F	Jenny Ultimate Blue	610-1366	**34LR49**
	1 gal	30	100	136	13.63 cSt	100.48 cSt	507 °F	Jenny Ultimate Blue	105-1210	**34LR50**
	(4) 1 gal Containers	30	100	136	13.63 cSt	100.48 cSt	507 °F	Jenny Ultimate Blue	610-1367	**34LR51**
Synthetic Air Compressor Oil										
Rarus® 824	5 gal	10	32	127	5.5 cSt	29.5 cSt	244 °C	Mobil	100537	**4ZF39**
Rarus® 827	5 gal	30	100	66	10.12 cSt	107.5 cSt	270 °C	Mobil	104820	**6Y783**
Bio-SynXtra™ Food Grade	5 gal	30	68	68	11 cSt	66 cSt	245 °C	Renewable Lubricants	87954	**21A498**
Rotary Screw Compressor Oil										
SCH Rarus™ 32	5 gal	10	32	123	5.6 cSt	30.6 cSt	204 °C	Mobil	121987	**49JM31**
SHC Rarus™ 68	5 gal	20	68	129	9.7 cSt	65.3 cSt	192 °C	Mobil	122000	**49JM32**
Refrigeration Compressor Oil										
Gargoyle® Arctic® 300	5 gal	20	156	68	—	68 cSt	200 °C	Mobil	104837	**4ZF41**
Bio-SynXtra™ Food Grade	5 gal	30	68	156	11 cSt	67 cSt	242 °C	Renewable Lubricants	87854	**21A496**
Food-Grade Compressor Oil										
Bio-SynXtra™ Comp/ Refrigerant FG	1 qt	—	68	156	11 cSt	67 cSt	260 °C	Renewable Lubricants	87851	**36N461**
	1 gal	—	68	156	11 cSt	67 cSt	260 °C	Renewable Lubricants	87853	**36N462**
Bio-SynXtra™ FG Compressor	1 qt	—	68	159	11 cSt	66 cSt	245 °C	Renewable Lubricants	87951	**36N463**
	1 gal	—	68	159	11 cSt	66 cSt	245 °C	Renewable Lubricants	87953	**36N464**

2WGX7

40KH92

Single-Stage Replacement Air Compressor Pumps

Designed to cycle On/Off while providing continuous air with a 65/35 duty cycle. Pumps feature cast-iron construction and splash lubrication. Does not include flywheel; flywheels are available on Grainger.com.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM	NPT Outlet	Bore Dia.	Stroke Length	No. of Cylinders	Item No.
½ hp, ¾ hp, 1 hp	1.3, 1.6, 1.9	820, 1,135, 1,425	2 ⅞ in, 3 61⁄64 in, 4 61⁄64 in	½ in	2 9⁄16 in	1 ⅜ in	1	**40KH94**
1 ½, 2, 1 hp	3.0, 3.7, 4.9	690, 860, 1,020	4 in, 5 in, 5 29⁄32 in	⅜ in	2 ¾ in	2 in	2	**2WGX6**
2 hp, 3 hp	4.9, 7.9	690, 1,020	4 in, 5 29⁄32 in	⅜ in	2 ¾ in	2 in	2	**2WGX7**
4 hp, 5 hp	11.0, 16.5	730, 1,010	6 in, 8 19⁄64 in	½ in	2 ¾ in	2 in	4	**40KH92**

½- to 7½-HP Air Compressor Pumps

ROLAIR

Rugged pumps feature cast iron/aluminum construction, stainless steel reed valves, splash lubrication, and CCW rotation facing flywheel. Avg. pump life: 10,000 hr.

HP	Pump RPM	Sheave Size @ 1725 RPM †	Oil Cap.	NPT Outlet	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Single Stage									
½ hp, ¾ hp	700, 1,000	4 5/32 in, 5 15/16 in	6 fl oz	½ in	10 ⅛ in	A	1	PMP11K3GR	**36VJ17**
1 hp, 1 ½ hp	850, 1,100	5 3/64 in, 6 17/32 in	12 fl oz	½ in	10 ⅛ in	A	1	PMP11K8GR	**36VJ18**
1 ½ hp, 3 hp	900, 1,400	5 47/64 in, 8 15/16 in	17 fl oz	½ in	10 ⅛ in	A	1	PMP12MK103GR	**31LA90**
1 ½ hp, 3 hp	1,000, 1,200	6 ⅜ in, 7 35/64 in	34 fl oz	½ in	11 in	A	1	PMP12K17GR	**35DZ65**
2 hp, 4 hp	900, 1,400	6 17/64 in, 9 39/64 in	30 fl oz	½ in	12 in	A	1	PMP12MK113GR	**31LA91**
7 ½ hp	800	7 in	47 fl oz	¾ in	15 in	A	2	PMP12K35GR	**36VJ19**
2-Stage									
5 hp, 7 ½ hp	1,000, 1,200	8 in, 11 ⅜ in	45 fl oz	1 in	15 in	B	1	PMP22BK119GR	**31LA92**
5 hp, 7 ½ hp	1,000, 1,200	7 51/64 in, 10 13/32 in	47 fl oz	¾ in	15 in	A	2	PMP22K30GR	**35DZ66**

† Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.

31LA90

36VJ19

4- to 30-HP 2-Stage Air Compressor Pumps

SPEEDAIRE

- Cast-iron construction
- Stainless steel valves for long life
- Max. pressure: 175 psi
- Oil level sight glass

Splash Lubricated—Designed to cycle On/Off while providing continuous air with an 80/20-duty cycle. Rated for heavy-duty commercial use in new or replacement applications. Pumps come with large-capacity oil reservoir with sight gauge. 3Z411 includes unloader and pilot valves that allow constant speed operation or dual control. Recommended oil is 4ZF21, sold separately on page 2568.

Pressure Lubricated—Oil pump provides lubricant to all critical areas. Spin-on filter for continuous oil filtration.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Sheave Size @ 1725 RPM‡	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Item No.
Splash Lubricated Lubricated								
4 hp, 5 hp	12.0, 14.4	1,190, 1,310	10 51/64 in, 12 23/64 in	16 oz	16 ½ in	A/B	1	**40KH93**
Splash Lubricated								
5 hp	17.1	700	6 ¾ in	64 fl oz	16 ½ in	—	—	**5Z404**
5 hp, 7 ½ hp	17.3/23.5	734, 990	7 ¼ in, 9 ¾ in	64 fl oz	16 ½ in	B	2	**1WD21**
7 ½ hp	25.1	1,020	9 13/64 in	64 fl oz	16 ½ in	—	—	**5F566**
Splash Lubricated Lubricated								
10 hp	34.2	700	6 ¾ in	1 gal	16 ½ in	—	—	**5Z405**
Splash Lubricated								
10 hp, 15 hp	34.8/49.0	740, 1,045	8 in, 11 ⅜ in	1 gal	19 in	B	2	**1WD22**
15 hp	51	1,020	11 in	1 gal	19 ⅜ in	—	—	**4B248**
20 hp, 25 hp, 30 hp	76.7/90.1/101.0	655, 770, 890	8 ⅜ in, 9 ⅞ in, 11 ⅜ in	1.58 gal	22 in	B	3	**3Z411**
Pressure Lubricated								
5 hp, 7 ½ hp	17.3/23.5	760, 1,035	7 ¼ in, 9 ¾ in	64 fl oz	16 ½ in	B	2	**1WD23**
10 hp, 15 hp	34.8/49.0	740, 1,045	8 in, 11 ⅜ in	1 gal	19 in	B	2	**1WD24**

‡ Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.

1WD21

5Z405

3Z411

3- to 15-HP 2-Stage Air Compressor Pumps

CHAMPION

Designed for heavy-duty industrial applications. Die-cast aluminum cylinders with cast-iron sleeves for greater efficiency, cooling, and service life. Balanced, fan-type flywheels provide airflow for cooling pump. Rotation CCW facing flywheel. Splash-lubricated models feature cast iron head, cylinders, and crank shaft with stainless steel Swedish valves for rugged durability and long life.

Intercoolers efficiently dissipate heat. Include unloader and pilot valve for constant speed operation. Centrifugal unloader provides efficient pressure release for loadless starting.

Note: To determine motor pulley size: Compressor pulley x compressor rpm ÷ motor rpm = motor pulley size.

Lubrication Type	HP	Pump RPM	NPT Outlet	Sheave Size*	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Pumps for Start/Stop Operation										
Splash Lubricated	3 hp, 5 hp	440, 734	¾ in	4 ¼ in, 7 in	64 fl oz	16 ½ in	B	2	R2-30A-P01	**3Z180**
Splash Lubricated	7 ½ hp, 10 hp	575, 740	¾ in	6 ⅜ in, 8 ⅛ in	64 fl oz	19 in	B	2	R2-30A-P02	**3Z182**
Pumps for Constant or Dual Control Operation										
Splash Lubricated	3 hp, 5 hp	440, 710	¾ in	4 ¼ in, 7 in	64 fl oz	16 ½ in	B	2	R2-30A-P03	**3Z181**
Splash Lubricated	7 ½ hp, 10 hp	575, 740	¾ in	6 ⅜ in, 8 ⅛ in	64 fl oz	19 in	B	2	R2-30A-P05	**3Z183**
Pressure Lubricated	15 hp	770	1 in	9 ¾ in	64 fl oz	22 in	B	3	R2-30A-P22	**3Z410**

** Sheave sizes are O.D. to provide proper pump speed with 1725 rpm motor.*

3Z180

3Z183

3- to 15-HP Single- and 2-Stage Air Compressor Pumps

Ingersoll Rand

TYPE 30

Durable, cast-iron cylinders, heads, and frame are designed for continuous operation with the use of Ingersoll Rand All Season Select Lubricant and extends pump life. Overhung crankshaft is precision balanced to run smoothly and quietly. 1-pc. connecting rod. Cylinders can be removed for easy repair and service. Pumps are splash lubricated.

SINGLE-STAGE

Durable, cast-iron cylinders, heads, and frame are designed for continuous-duty operation with the use of Ingersoll Rand All Season Select Lubricant.

2-STAGE

Splash-lubricated pump includes cast-iron cylinders and crankshaft. Stainless steel valves are for rugged durability and long life.

HP	Free Air CFM @ Max. Pressure	Pump RPM	Motor RPM	NPT Outlet	Sheave Size @ 1725 RPM	Oil Cap.	Flywheel Dia.	Groove Section	Groove Quantity	Mfr. Model	Item No.
Type 30											
5 hp	14.0	1,575	—	½ in	6 17/64 in	28 fl oz	13 ½ in	A	1	2340	**4KR37**
5 hp, 7 ½ hp	16.8/24.0	1,040, 1,500	3450	½ in	5 15/16 in, 8 15/16 in	41 fl oz	13 ½ in	A	1	2475	**4R800**
7 ½ hp, 10 hp	26.2/35.0	825, 1,050	1750	¾ in	5 ¾ in, 8 61/64 in, 11 23/64 in	74 fl oz	17 39/64 in	B	1	2545	**4M392**
10 hp, 15 hp	36.6/50.0	800, 1,100	1750	1 in	8 23/64 in, 11 23/64 in	80 fl oz	17 ½ in	B	2	7100	**4R766**
Single-Stage											
3 hp	10.3	1,200	—	⅜ in	4.20	16.9 fl oz	12 ½ in	A	1	SS3 Bare	**1WF72**
5 hp	16.3	1,000	—	½ in	4 in	40 fl oz	14 ½ in	A	1	SS5 Bare	**1WF74**
2-Stage											
5 hp	16.5	1,500	—	½ in	5 57/64 in	40.64 fl oz	14 ½ in	A	1	TS5 Bare	**1WF86**

4R800

4M392

2TWC1

3Z409

SPEEDAIRE®

Air Tanks

NONCODE AIR TANKS

2TWC1—Formed, 1-pc. steel strap feet for maximum stability. ¼" and ½" NPT ports.

2TWC4—One ½" port, one ¼" port, and one ¼" drain port. Split-base design accommodates a variety of pumps. Some drilling may be required.

Note: Noncode tanks do not have ASME certification. Before ordering, check local and state code requirements.

ASME CODE AIR TANKS

3Z409—Includes semipneumatic 10" x 1¾" wheels; ¼", ⅜", and ½" NPT openings; and sturdy, 2-pc. pump/motor platforms.

GAS ENGINE AIR COMPRESSOR TANKS

1VW38—ASME replacement tank for Speedaire® Compressors 4B220 and 4B241. Includes one ½" NPT, one ¼" NPT, and one ¼" NPT drain ports. Tank has two 10" x 1¾" semipneumatic wheels.

1VW39—ASME replacement tank for Speedaire® Compressors 4WL38 and 5F564. Includes three ½" NPT, two ¼" NPT, and one ⅜" NPT drain ports.

Tank (gal.)	Tank Type	Working Pressure (psi)	Max. Motor HP	L (in.)	W (in.)	H (in.)	Tank Dia. (in.)	Tank Gauge	Item No.
Noncode Air Tanks									
3 gal	Hot Dog	125	1	25 in	8 3/32 in	8 19/64 in	5 29/32 in	13 ga	**2TWC1**
5 gal	Pancake	125	1	16 3/16 in	16 3/16 in	9 ⅜ in	16 3/16 in	11 ga	**2TWC4**
15 gal	Horizontal	135	—	33 49/64 in	13 ⅜ in	18 15/64 in	12 in	13 ga	**52YM08**
ASME Code Air Tanks									
20 gal	Horizontal	144	3	33 ⅛ in	15 ⅛ in	18 ¼ in	14 in	12 ga	**3Z409**
Gas Engine Air Compressor Tanks									
20 gal	Horizontal	150	5 ½	33 in	15 in	18 in	14 in	12 ga	**1VW38**
Air Tanks									
30 gal	Horizontal	200	13	39 ⅜ in	18 in	23 in	16 in	10 ga	**1VW39**

SPEEDAIRE®

Air-Carry Tanks

- Max. working pressure: 125 psi
- 3-ft. hose with adapter
- 0 to 160 psi pressure gauge
- Brass manifold with shutoff and safety valves

2TWC2

Use for inflating or in combination with recoil hose and air gun, sold separately. Air guns on page 2516.

Note: These tanks do not have ASME certification. Before ordering, check local and state code requirements.

Item	Tank (gal.)	L (in.)	H (in.)	Tank Dia. (in.)	Item No.
Air-Carry Tanks					
Air Carry Tank	5 gal	17 19/32 in	11 19/32 in	9 19/64 in	**2TWC2**
Portable Air Tank	11 gal	24 ¼ in	14 ⅜ in	12 in	**3EUJ9**

4TK10

SPEEDAIRE®

Stationary/Portable ASME Code Tanks

Includes two ½" NPT ports, 2 inspection ports, drain valve, and ASME safety valve.

Tank (gal.)	Working Pressure (psi)	L (in.)	W (in.)	H (in.)	Tank Dia. (in.)	Steel Tank (Gauge)	Item No.
13 gal	140	28 29/32 in	12 ½ in	16 45/64 in	12 in	13 ga	**2TWC3**
20 gal	144	31 ½ in	12 ½ in	18 ½ in	14 in	15 ga	**4TK10**

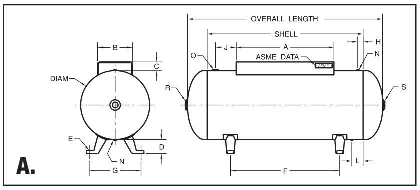
Stationary ASME Code Air Tanks

SPEEDAIRE®

- Max. working pressure: 200 psi

Meet city and state requirements for most commercial and industrial installations. Models with top plate accept new or replacement compressor and motor assemblies. 5Z359 can be operated with gas engine to 5 HP max. Foot pads on 60-, 80-, and 120-gal. horizontal units.

6CJL3



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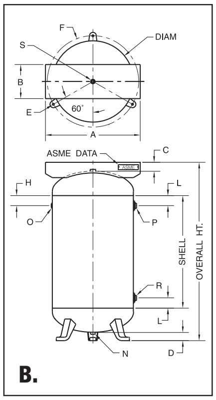

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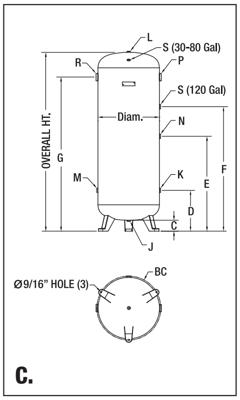

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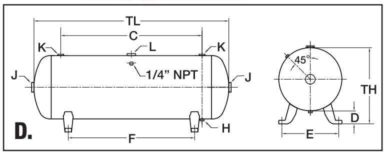


D.

Key	Tank Capacity (gal.)	Dia. (in.)	L (in.)	H (in.)	Shell (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	L (in.)	N (in.)	O (in.)	P (in.)	R (in.)	S (in.)	Item No.
							Dimensions									Openings NPT					
Horizontal Tanks with Top Plate - ASME U Stamp, ASME UM Stamp																					
A	30	16 in	41.1 in	21.7 in	31.5 in	24.5 in	8.0 in	3.3 in	2.4 in	0.6 in	24.0 in	13.4 in	1.8 in	1.9 in	1.8 in	⅜	½	—	1 ½	1 ½	**5Z359** *
A	60	20 in	48 in	27.6 in	35.8 in	29.0 in	9.3 in	3.0 in	4.6 in	0.6 in	28.0 in	18.0 in	2.0 in	1.4 in	2.0 in	⅜	¾	—	2	2	**5Z360** *
A	80	20 in	63 in	27.4 in	50.8 in	34.0 in	12.0 in	2.8 in	4.6 in	0.6 in	40.0 in	18.0 in	2.9 in	2.5 in	2.9 in	⅜	¾	—	2	2	**5Z361** *
A	120	24 in	68.4 in	31.9 in	54.3 in	34.0 in	12.0 in	3.0 in	4.9 in	0.6 in	42.0 in	18.0 in	2.9 in	7.3 in	2.9 in	⅜	1 ¼	—	2	2	**5Z362** †
Vertical Tanks with Top Plate - ASME U Stamp, ASME UM Stamp																					
B	30	16 in		45.2 in	31.5 in	24.5 in	8.0 in	3.0 in	1.8 in	0.6 in	17.0 in	—	5.0 in	—	5.0 in	⅜	¾	¾	1 ½	1 ½	**5Z363** *
B	60	20 in		52.2 in	35.8 in	29.0 in	9.3 in	2.3 in	2.8 in	0.6 in	24.0 in	—	4.0 in	—	4.0 in	⅜	¾	¾	2	2	**5Z364** *
B	80	24 in		51.6 in	33.3 in	28.0 in	10.0 in	2.6 in	2.5 in	0.6 in	27.0 in	—	3.0 in	—	3.0 in	⅜	¾	¾	2	2	**5Z365** *

Key	Tank Capacity (gal.)	Dia. (in.)	L (in.)	H (in.)	Shell (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	BC (in.)	H (in.)	J (in.)	K (in.)	L (in.)	M (in.)	N (in.)	P (in.)	R (in.)	S (in.)	Item No.
							Dimensions								Openings NPT						
Vertical Tanks without Top Plate - ASME U Stamp																					
C	30	16 in	—	40.5 in	31.5 in	2.5 in	11 in	21.5 in	—	32 in	17 in	—	0.5 in	—	0.75 in	1 ½	—	¾	1 ½	¼	**1TZZ6**
C	60	20 in	—	52 in	35.8 in	3 in	12.5 in	26 in	—	42.5 in	24 in	—	0.5 in	—	0.75 in	2	—	¾	2	¼	**1TZZ7**
C	80	24 in	—	49.5 in	33.3 in	4.5 in	14 in	27 in	—	40 in	27 in	—	0.5 in	—	0.75 in	2	—	1	2	¼	**1YAC4**
Vertical Tanks without Top Plate - ASME Approved																					
C	240	30 in	—	88.5 in	0.2 in	4 in	17.6 in	—	74.4 in	74.8 in	30 in	—	—	—	2 in	2	—	¾	2	—	**6CJL3**
C	400	36 in	—	101 in	0.2 in	8 in	17.6 in	38.6 in	60.6 in	81.6 in	36 in	—	—	—	2 in	2	½	1 ½	2	¼	**6CJL4**
Horizontal Tanks without Top Plate - ASME U Stamp																					
D	30	16 in	41.5 in	20.46 in	—	27.5 in	2 in	13.44 in	24 in	—	—	0.5 in	1.5 in	½ in	0.75 in	—	—	—	—	—	**3HDR1**
D	60	20 in	46.75 in	27.05 in	—	32.5 in	4.11 in	18 in	28 in	—	—	0.5 in	2 in	¾ in	1 in	—	—	—	—	—	**3HDR2**
D	80	20 in	61.75 in	25.65 in	—	44.75 in	4.11 in	18 in	40 in	—	—	0.5 in	2 in	1 in	1.5 in	—	—	—	—	—	**3HDR3**
D	120	24 in	67.5 in	30.52 in	—	48.25 in	4.42 in	18 in	42 in	—	—	0.75 in	2 in	1 ½ in	1.5 in	—	—	—	—	—	**3HDR4**

** Opening has ¾"-reducer plug. † Opening has 1"-reducer plug.*

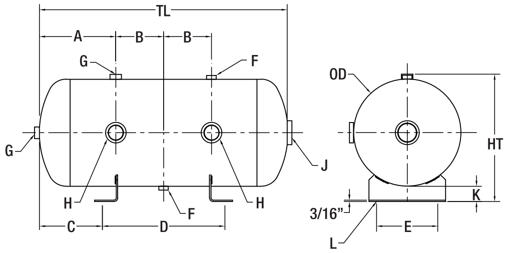
SPEEDAIRE

Small Air Receivers/Surge Tanks

- Max. working pressure: 175 psi
- Plugs included in all openings
- Multiple openings and NPT thread sizes
- Black powder-coated finish

Designed for point-of-use air storage. Stationary, steel horizontal tanks are excellent for providing compressed air to short, peak-demand applications.

1TZZ5



Tank Capacity (gal.)	Dimensions Dia. (in.)	TL (in.)	HT (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	K (in.)	Opening NPT L (in.)	F (in.)	G (in.)	H (in.)	J (in.)	Item No.
2	6 in	19 in	8 in	4 in	5.5 in	4 in	11 in	3.5 in	2 in	0.44 in	0.5 in	0.75 in	0.75 in	1 in	**1TZY6**
3	6 in	25 in	8 in	4 in	8.5 in	7 in	11 in	3.5 in	2 in	0.44 in	0.5 in	0.75 in	0.75 in	1 in	**1TZY7**
6	10 in	20 in	12 in	5 in	5 in	4 in	12 in	6.5 in	2 in	0.44 in	0.5 in	0.75 in	0.75 in	1 in	**1TZY8**
10	12 in	24.5 in	14 in	7.25 in	5 in	6.25 in	12 in	6.5 in	2 in	0.44 in	0.5 in	0.75 in	0.75 in	1 in	**1TZY9**
15	12 in	34 in	14 in	7 in	10 in	11 in	12 in	6.5 in	2 in	0.44 in	0.5 in	0.75 in	1.5 in	1 in	**1TZZ2**
20	14 in	32.5 in	16 in	10 in	6.25 in	8.25 in	16 in	8.5 in	2 in	0.56 in	0.5 in	0.75 in	1.5 in	2 in	**1TZZ3**
30	16 in	37.5 in	18 in	10 in	8.75 in	10.75 in	16 in	10.5 in	2 in	0.56 in	0.5 in	0.75 in	1.5 in	2 in	**1TZZ5**

Parker
domnick hunter
Ingersoll Rand

Oil/Water Separators

Designed to separate emulsified compressor water and oil condensates using no electricity. Modules prevent contamination of upstream coalescing and carbon filters, extending downstream air line filter life.

Max. Air Compressor HP	Max. Air Flow (scfm)	Condensate Inlet NPT (in.)	Absorption Module Volume (gal.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Oil/Water Separators									
10 hp	43	(1)1/2,(1)1/4	—	13 in	10 in	33 in	Domnick Hunter	ES2100	**4HCZ1**
15 hp	60	½	2 gal	11 ½ in	11 ½ in	27 ½ in	Ingersoll Rand	PSG-7	**2KMP6**
25 hp	124	(1)1/2,(1)1/4	16 gal	17 in	14 in	32 in	Domnick Hunter	ES2150	**4HCZ2**
40 hp	175	½	5 gal	28 ½ in	19 ½ in	30 ⅞ in	Ingersoll Rand	PSG-15	**2KMP7**
	191	(1)1/2,(1)1/4	20 gal	18 in	14 in	32 in	Domnick Hunter	ES2200	**4HCZ3**
60 hp	268	(1)1/2,(3)1/4	33 gal	32 in	20 in	47 in	Domnick Hunter	ES2300	**4HCZ4**
75 hp	390	½	12 gal	34 in	21 in	39 in	Ingersoll Rand	PSG-30	**11U221**
120 hp	535	(1)1/2,(3)1/4	49 gal	32 in	27 in	47 in	Domnick Hunter	ES2400	**4HCZ5**
240 hp	1,062	(1)1/2,(3)1/4	94 gal	39 in	28 in	61 in	Domnick Hunter	ES2500	**4HCZ6**
480 hp	3,590	(1)1/2,(3)1/4	128 gal	40 in	40 in	61 in	Domnick Hunter	ES2600	**4HCZ7**

4HCZ1

2KMP7

For Use With Mfr. Model Number	Mfr. Model	Item No.
Replacement Separator Modules		
PSG-7	AM-7	**2KMP8**
PSG-15	AM-15	**2KMP9**
PSG-60	AM-60	**11U225**
PSG-90	AM-90	**11U226**
PSG-30	AM-30	**11U224**

Description	For Use With	Item No.
Replacement Bags & Filters		
Carbon Bag	4HCZ1 to 5	**5KCL3**
	—	**5KCL4**
Vent Filter	—	**5KCL5**
	—	**5KCL6**

20CL92

20CL95

Intech Industries, Inc.

Oil Absorbing Oil/Water Separators

2-stage absorption bags attract and hold oil like a magnet. They reduce condensate oil content to <10 ppm so that water can pass safely to the drain.

Max. Air Compressor HP	Max. Air Flow (scfm)	Condensate Inlet NPT (in.)	Absorption Module Volume (gal.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Oil/Water Separators								
15 hp	70	½	⅕ gal	9 in	9 in	10 in	OWSD-70	**20CL92** *
30 hp	125	½	13⁄16 gal	19 in	11 in	17 in	CT-125	**20CL93**
50 hp	250	½	1 13⁄16 gal	23 in	12 in	18 in	CT-250	**20CL94**
150 hp	600	½	4 gal	29 in	16 in	20 in	CT-600	**20CL95**

** Disposable; no replacement bags needed.*

Description	For Use With	Item No.
Replacement Elements		
First Stage		
Charcoal Bag	20CL93	**20CL96**
	20CL94	**20CL99**
	20CL95	**20CM03**
Second Stage		
Polypropylene Bag	20CL93	**20CL97**
	20CL94	**20CM01**
	20CL95	**20CM04**
Third Stage		
Polyglycol Bag	20CL93	**20CL98**
	20CL94	**20CM02**
	20CL95	**20CM05**

SPEEDAIRE

Heavy-Duty Drip Leg with Automatic Float Drain

Attaches to vertical leg of air system to collect moisture and automatically evacuate liquids using integral float drain. Valve opens when system is unpressurized, allowing gravity drainage. 6.61"H x 2.36"W.

NPT (in.)	Max. Pressure (psi)	Max. Temp. (°F)	Item No.
½ in	250 psi	175 °F	**4ZK11**

control devices, LLC

Cable-Operated Drain Valve

Features brass body and stem, nitrile O-ring, and 5-ft. long vinyl-covered steel cable. Max. pressure: 200 psi. Max. temp.: 200°F.

Inlet Port	Hex	H	Mfr. Model	Item No.
¼" NPT	9⁄16"	1.06"	DP25-1A060	**6D913**

External Auto Drain

- No power required
- Automatically opens to discharge condensate

Aluminum construction with durable epoxy powder-coated finish and corrosion-resistant internal coating. Override feature allows manual operation. 6.25"H x 4.25"W.

Max. Pressure	Drain Rate @ 100 PSI	Pipe Size	Drain Outlet Dia.	Operating Temp. Range	Item No.
230 psi	1.0 gpm	½ in NPT	½ in	33° to 155°F	**4GNN1**

53DN43

53CE41

53DN44

13X530

53RG49

Timer-Operated Electronic Drain Valves

- Open and close automatically, based upon easy-to-adjust timer settings.

Motorized Ball Valves—For use when contaminants and large particles may plug or hold open other drain valves.

Pipe Size	Voltage	Drain Rate	Adjustable Drain Cycle	Purge Time	Max. Pressure	Operating Temp. Range	Brand	Mfr. Model	Item No.
Industrial Standard Solenoid Valves									
⅛ in NPT	100-120V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X522	**13X522**
	208-240V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X523	**13X523**
¼ in NPT	100-120V	2.55 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X524	**13X524**
	208-240V	2.55 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X525	**13X525**
	115 V	4.0 gpm	1 min to 60 min	1 sec to 30 sec	250 psi	35° to 165°F	Speedaire	53DN43	**53DN43**
⅜ in NPT	100-120V	4.33 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X526	**13X526**
	208-240V	4.33 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X527	**13X527**
½ in NPT	115 V	1.0 gpm	0.5 min to 45 min	1 sec to 10 sec	300 psi	35° to 165°F	Speedaire	53CE41	**53CE41**
	115 V	1.6 gpm	0.5 min to 45 min	1 sec to 10 sec	300 psi	35° to 165°F	Speedaire	53CE42	**53CE42**
	100-120V	4.53 gpm	0.5 min to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X528	**13X528**
	115 V	4.0 gpm	0.5 min to 45 min	1 sec to 10 sec	300 psi	35° to 165°F	Speedaire	53DN44	**53DN44**
	115 V	4.0 gpm	1 min to 60 min	1 sec to 30 sec	250 psi	35° to 165°F	Speedaire	53CE43	**53CE43**
	208-240V	4.53 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	13X529	**13X529**
	100-120V	15.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X530	**13X530** †
	208-240V	15.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X531	**13X531** †
	100-120V	16.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X532	**13X532** †
	208-240V	16.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X533	**13X533** †
	100-120V	17.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X534	**13X534** †
	208-240V	17.5 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	14° to 140°F	Speedaire	13X535	**13X535** †
Industrial Standard Solenoid Valves with Digital Timer									
¼ in NPT	115 V	38 gpm	0.5 min to 99 hr	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	53RG49	**53RG49**
	115 V	75 gpm	0.5 min to 99 hr	0.5 sec to 10 sec	725 psi	14° to 140°F	Speedaire	53RG50	**53RG50**
½ in NPT	115 V	38 gpm	0.5 min to 99 hr	0.5 sec to 10 sec	250 psi	14° to 140°F	Speedaire	53RG51	**53RG51**
	115 V	75 gpm	0.5 min to 99 hr	0.5 sec to 10 sec	725 psi	14° to 140°F	Speedaire	53RG52	**53RG52**
Combi Solenoid Valves with Integrated Unibody Strainer									
½ in NPT Inlet x ⅜ in NPT Outlet	115 V	1.2 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	35° to 95°F	Speedaire	38XT31	**38XT31**
	230 V	1.2 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	300 psi	35° to 95°F	Speedaire	38XR70	**38XR70**
	115 V	4.0 gpm	1 min to 60 min	1 sec to 30 sec	250 psi	35° to 165°F	Speedaire	53CE44	**53CE44**
High-Pressure Solenoid Valves									
¼ in NPT	115 V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	725 psi	14° to 140°F	Speedaire	13X536	**13X536**
	230 V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	725 psi	14° to 140°F	Speedaire	13X537	**13X537**
	115 V	1.0 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	1,500 psi	35° to 95°F	Speedaire	38XR85	**38XR85**
	230 V	1.0 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	1,500 psi	35° to 95°F	Speedaire	38XR45	**38XR45**
½ in NPT	115 V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	725 psi	14° to 140°F	Speedaire	13X538	**13X538** †
	230 V	0.75 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	725 psi	40° to 176°F	Speedaire	12F742	**12F742** †
	115 V	7.0 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	1,500 psi	35° to 95°F	Speedaire	38XT39	**38XT39**
	230 V	7.0 gpm	0.5 sec to 45 min	0.5 sec to 10 sec	1,500 psi	35° to 95°F	Speedaire	38XR65	**38XR65**
Motorized Ball Valves									
¼ in NPT	115 V	6.0 gpm	0.5 sec to 120 min	1 sec to 30 sec	250 psi	35° to 95°F	Speedaire	38XT52	**38XT52**
½ in NPT	115 V	3.1 gal/cycle	1 min to 14 days	7 sec	200 psi	35° to 165°F	DynaQuip Controls	AD2A ½	**36ND56**
	115 V	8.0 gpm	0.5 sec to 120 min	1 sec to 30 sec	250 psi	35° to 95°F	Speedaire	38XR94	**38XR94**
¾ in NPT	115 V	6.0 gal/cycle	1 min to 14 days	7 sec	200 psi	35° to 165°F	DynaQuip Controls	AD2A ¾	**36ND57**
	115 V	9.0 gpm	0.5 sec to 120 min	1 sec to 30 sec	250 psi	35° to 95°F	Speedaire	38XT09	**38XT09**
1 in NPT	115 V	7.7 gal/cycle	1 min to 14 days	7 sec	200 psi	35° to 165°F	DynaQuip Controls	AD2A 1	**36ND58**
	115 V	10.0 gpm	0.5 sec to 120 min	1 sec to 30 sec	250 psi	35° to 95°F	Speedaire	38XR71	**38XR71**
1¼ in NPT	115 V	24.0 gpm	0.5 sec to 120 min	1 sec to 30 sec	250 psi	35° to 95°F	Speedaire	38XT22	**38XT22**

† Includes filter ball valve and self-cleaning strainer.

control devices, LLC WILKERSON

Pneumatic-Operated Drain Valves

Automatically drain harmful condensate from compressed air systems.

CONTROL DEVICES

WaterHog—Innovative design without ½" passages to help ensure clog-free operation.

Pneumatic Zero Loss Condensate Drain—Helps powers through condensate build-up and has auto-adjust without any type of manual input. Ideal for compressor applications up to 25HP.

DRAIN-ALL

22PT26 allows greater throughput of solid debris. 22PT27 is ideal for use in old intercoolers/aftercoolers, receiver tanks, and piping where debris, rust, and scale are commonly found.

WILKERSON

For use with compressors up to 100 HP. Override feature on 5Z617 allows manual operation.

49T493

22PT26

5Z617

Description	Pipe Size	Drain Outlet Dia.	Max. Pressure	Min. Pressure	Operating Temp. Range	H	W	D	Mfr. Model	Item No.
Control Devices										
WaterHog Condensate Trap	½ in NPT	½ in	200 psi	40 psi	33° to 170°F	7 ½ in	8 ¼ in	9 ¾ in	LH50-0LAAA	**49T493**
Zero Loss Condensate Drain	⅜ in NPT	⅜ in	200 psi	40 psi	33° to 170°F	7.2 in	4 in	4 in	EH38-0LAAA	**53YE67**
Drain-All										
Condensate Handler	½ in NPT	½ in	170 psi	40 psi	33° to 170°F	11 in	9 ¼ in	10 ½ in	DH50-0LAAA	**22PT26**
Pressure Handler	½ in NPT	½ in	300 psi	40 psi	33° to 170°F	11 in	9 ¼ in	10 ½ in	PH50-0MAAA	**36JN34**
Rust Handler	½ in NPT	½ in	170 psi	40 psi	33° to 170°F	11 in	9 ¼ in	10 ½ in	RH50-0LAAA	**22PT27**
Wilkerson										
Automatic Drain Valve	½ in NPT	⅛ in	200 psi	20 psi	32° to 150°F	7 in	3 1/16 in	3 in	XB3-04-M00B	**5Z617**
Automatic Drain Valve	½ in NPT	⅛ in	200 psi	20 psi	32° to 150°F	8 ½ in	4 ¾ in	4 ¾ in	X01-04-M00	**5Z620**

SPEEDAIRE

Zero Air Loss Drain Valves

Can discharge condensate without the loss and waste of compressed air. Electronic models have a sensor to open and close the valve, while float drains use a float mechanism to operate the valve. Valves with 90 to 260V are compatible with 115V and 230V.

13X520

38XT70

Inlet/Outlet	Compressor Performance	Max. Pressure	No. of Inlets	Voltage	Operating Temp. (°F) Min./Max.	H	W	D	Item No.
Electronic Level-Sensor-Operated									
½ / ⅜ in NPT	247 cfm	230 psi	2	90 to 260V AC	36 to 180	6 in	3 in	5 ¾ in	**13X517**
½ / ½ in NPT	177 cfm	230 psi	2	90 to 260V AC	36 to 180	6 in	2 ½ in	5 ¾ in	**13X516**
	530 cfm	230 psi	2	90 to 260V AC	36 to 180	7 in	2 ½ in	6 1/10 in	**13X518**
	530 cfm	725 psi	2	90 to 260V AC	36 to 180	7 in	2 ½ in	6 1/10 in	**13X519**
	1,766 cfm	230 psi	2	90 to 260V AC	36 to 180	7 in	3 in	7 in	**13X520**
¾ / ½ in NPT	5,298 cfm	230 psi	3	90 to 260V AC	36 to 180	8 in	4 5/16 in	8 ½ in	**13X521**

Pipe Size	Drain Outlet Dia.	Max. Pressure	Operating Temp. Range	Min. Pressure	H	W	D	Item No.
Float Operated Drain for Lubricated Compressours								
½ in NPT	⅜ in	44 psi	32° to 125°F	12 psi	6.6 in	3.6 in	7.4 in	**38XT70**
	⅜ in	144 psi	32° to 125°F	44 psi	6.6 in	3.6 in	7.4 in	**38XT28**
	⅜ in	232 psi	32° to 125°F	145 psi	6.6 in	3.6 in	3.3 in	**38XT20**
¾ in NPT	½ in	44 psi	32° to 125°F	12 psi	5.1 in	5.5 in	3.3 in	**38XT65**
	½ in	144 psi	32° to 125°F	44 psi	5.1 in	5.5 in	3.3 in	**38XT41**
	½ in	232 psi	32° to 125°F	145 psi	5.1 in	5.5 in	3.3 in	**38XT35**

CONRADER

Air Safety Valves

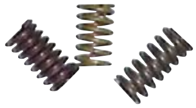
- Brass body valves have silicone seals
- Stainless steel body valves have Viton seals

An even larger assortment of air safety valves is available on Grainger.com®.

15X898

15X873

	Stainless Steel Body						Brass Body							
	¼" MNPT Inlet		½" MNPT Inlet		¾" MNPT Inlet		½" MNPT Inlet		¾" MNPT Inlet		1" MNPT Inlet		1¼" MNPT Inlet	
Preset Setting (psi)	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.	Rated CFM @ Set Pressure	Item No.
50 psi	51 cfm	**15X862**	108 cfm	**15X876**	233 cfm	**15X887**	233 cfm	**15X910**	233 cfm	**15X898**	497 cfm	**15X922**	—	—
60 psi	59 cfm	**15X863**	125 cfm	**15X877**	270 cfm	**15X888**	270 cfm	**15X911**	270 cfm	**15X899**	575 cfm	**15X923**	—	—
75 psi	71 cfm	**15X864**	150 cfm	**15X878**	325 cfm	**15X889**	325 cfm	**15X912**	325 cfm	**15X901**	693 cfm	**15X924**	693 cfm	**15X934**
100 psi	92 cfm	**15X865**	193 cfm	**15X879**	417 cfm	**15X890**	417 cfm	**15X913**	417 cfm	**15X902**	889 cfm	**15X925**	889 cfm	**15X935**
125 psi	112 cfm	**15X866**	235 cfm	**15X880**	509 cfm	**15X891**	509 cfm	**15X914**	509 cfm	**15X903**	1,085 cfm	**15X926**	1,085 cfm	**15X936**
150 psi	132 cfm	**15X867**	278 cfm	**15X881**	601 cfm	**15X892**	601 cfm	**15X915**	601 cfm	**15X904**	1,281 cfm	**15X927**	1,281 cfm	**15X937**
175 psi	153 cfm	**15X868**	321 cfm	**15X882**	694 cfm	**15X893**	694 cfm	**15X916**	694 cfm	**15X905**	1,477 cfm	**15X928**	1,477 cfm	**15X938**
200 psi	173 cfm	**15X869**	363 cfm	**15X883**	786 cfm	**15X894**	786 cfm	**15X917**	786 cfm	**15X906**	1,674 cfm	**15X929**	1,674 cfm	**15X939**
225 psi	194 cfm	**15X870**	406 cfm	**15X884**	878 cfm	**15X895**	878 cfm	**15X918**	878 cfm	**15X907**	1,870 cfm	**15X930**	1,870 cfm	**15X940**
250 psi	214 cfm	**15X871**	449 cfm	**15X885**	970 cfm	**15X896**	970 cfm	**15X919**	970 cfm	**15X908**	2,066 cfm	**15X931**	2,066 cfm	**15X941**
275 psi	234 cfm	**15X872**	—	—	—	—	1,062 cfm	**15X920**	—	—	2,262 cfm	**15X932**	2,262 cfm	**15X942**
300 psi	255 cfm	**15X873**	534 cfm	**15X886**	1,154 cfm	**15X897**	1,154 cfm	**15X921**	1,154 cfm	**15X909**	2,458 cfm	**15X933**	2,458 cfm	**15X943**
325 psi	275 cfm	**15X874**	—	—	—	—	—	—	—	—	—	—	—	—
350 psi	295 cfm	**15X875**	—	—	—	—	—	—	—	—	—	—	—	—



6D915

Safety Valves

Adjustable Noncode—Pressure range of 25 to 200 psi. Features brass body with silicone rubber seal and stainless steel springs. 9⁄16" hex body x 1.56"L.

Adjustable Vacuum/Pressure—Easily convert from vacuum to pressure relief by reversing poppet and spring. Relieve vacuums from 0" to 30" Hg or pressure to 20 psi.

ASME Hard-Seat—Lead seal allows visual detection of tampering. Brass body, stainless steel ball on brass seat and stainless steel spring. External threads coated with thread sealant.

Note: Pressure Settings are available on Grainger.com.

ASME Soft-Seat—1-pc. brass body has resilient silicone elastomer O-ring for a leakproof seal. External threads are coated with thread sealant.

Note: Pressure Settings are available on Grainger.com.

High-Capacity ASME—Brass bodies with stainless steel springs and silicone O-ring seals.

Threaded Outlet ASME—Valves feature brass/stainless steel construction. Silicone rubber O-ring seal and lead seal.

Variable Pressure—May be used wherever a low-flow variable pressure relief valve is used. Micrometer-style scale, 0 to 100 psi. Brass body/nylon knob. Stainless steel poppet/fluorocarbon O-ring.

5A709

4TK15

4TK26

Preset Setting (psi)	(M)NPT Inlet (in.)	(F)NPT Outlet (in.)	Rated CFM @ Set Pressure	Mfr. Model	Item No.
Adjustable Noncode Pressure Relief Valve - Max. 250 °F					
125 psi	¼ in	—	—	NC25-1UK002	**6D915**
Adjustable Vacuum/Pressure Relief Valves - Max. 250 °F					
0 to 14.7	—	—	—	VR25-100	**5Z763**
	⅜	—	—	VR38-100	**5Z764**
	¾	—	—	VR75-100	**5Z765**
	1	—	—	VR10-013	**3ETU7**
0 to 20	—	—	2 cfm	PR25-000	**36JN35**
	⅜	—	5 cfm	PR38-000	**36JN37**
50 to 125	¼	—	2 cfm	PR25-008	**36JN36**
ASME Hard-Seat Air Safety Valves - Max. 400 °F					
125 psi	½ in	—	266 cfm	SN50-1A125	**4TK23**
150 psi	½ in	—	314 cfm	SN50-1A150	**4TK24**
165 psi	¼ in	—	140 cfm	SA25-1L165	**5A714**
200 psi	¼ in	—	168 cfm	SA25-1L200	**5A715**
	⅜ in	—	168 cfm	SA38-1L200	**5A716**
	½ in	—	411 cfm	SN50-1A200	**4TK25**
ASME Soft-Seat Air Safety Valves - Max. 250 °F					
60 psi	¼ in	—	61 cfm	ST25-1A060	**5A707**
75 psi	⅛ in	—	74 cfm	ST2512-1A075	**5LGJ5**
125 psi	¼ in	—	115 cfm	ST25-1A125	**5A708**
	½ in	—	232 cfm	SF50-1A125	**6D924**
150 psi	¼ in	—	136 cfm	ST25-1A150	**5A709**
	½ in	—	274 cfm	SF50-1A150	**6D925**
200 psi	¼ in	—	178 cfm	ST25-1A200	**5A710**
	⅜ in	—	178 cfm	ST2533-1A200	**5A711**
	½ in	—	358 cfm	SF50-1A200	**6D926**
High-Capacity ASME Air Safety Valves - Max. 250 °F					
125 psi	¾ in	—	504 cfm	SB75-0A125	**6D922**
	1 in	—	1,053 cfm	SW10-0A125	**6D920**
150 psi	¾ in	—	595 cfm	SB75-1A150	**6D923**
	1 in	—	1,244 cfm	SW10-0A150	**6D921**
Threaded Outlet ASME Safety Valves - Max. 250 °F					
125 psi	½ in	¾ in	496 cfm	SCB5075-0A125	**4TK17**
	½ in	1 in	496 cfm	SCB5010-0A125	**4TK15**
	¾ in	¾ in	496 cfm	SCB7575-0A125	**4TK21**
	¾ in	1 in	496 cfm	SCB7510-0A125	**4TK19**
150 psi	½ in	¾ in	586 cfm	SCB5075-0A150	**4TK18**
	½ in	1 in	586 cfm	SCB5010-0A150	**4TK16**
	¾ in	¾ in	586 cfm	SCB7575-0A150	**4TK22**
	¾ in	1 in	586 cfm	SCB7510-0A150	**4TK20**
Variable Pressure - Max. 250 °F					
1 to 100 psi	¼ in	—	—	CR25-100	**4TK26**

6X209

6X213

2A165

4X829

Check Valves

Compact—Brass body check valves, stainless steel spring, and stainless steel ball on Viton O-ring. Max. pressure: 250 psi.

Compressor In-Tank and Valves For Tubing—Brass body, fluoropolymer poppet, and stainless steel springs. Max. pressure: 400 psi. External threads coated with thread sealant. ⅛" (F)NPT tapped unloader port with removable plug.

Bronze—Valves open at less than 3 psi; withstand up to 400 psi back pressure. ⅛" tap for pressure switch unloader connection. Vertical or horizontal mounting.

Unloader and Check Valves—Brass body, PTFE seals, and stainless steel springs. Max. working pressure: 250 psi. 5A703 to 5A706 have (F)NPT inlet and (M)NPT outlet to tank. 4X996 to 4X999 are threaded to accept compression fitting at inlet.

In-line—Valves open at less than 1 psi with max. operating pressure of 400 psi. All-brass bodies with glass-filled PTFE poppets and stainless steel springs. 4X828 and 4X829 have ⅛" (F)NPT tapped port for pressure switch unloader connection.

Inlet (in.)	Outlet (in.)	Flow Range Free Air (cfm)	Max. Temp. (°F)	L (in.)	Mfr. Model	Brand	Item No.
Compact							
¼ (M)NPT	¼ (M)NPT	1 to 9	250 °F	1 ⅓ in	M2525-1WA	Control Devices	**6D914**
¼ (F)NPT	¼ in (M)NPT	1 to 9	250 °F	1 7⁄16 in	P2525-1WA	Control Devices	**6D917**
Compressor In-Tank							
⅜ (F)NPT	½ (M)NPT	0 to 20	400 °F	2 ¾ in	P3850-1EP	Control Devices	**6X207**
½ (F)NPT	½ (M)NPT	0 to 20	400 °F	3 in	P5050-1EP	Control Devices	**6X208**
¾ (F)NPT	¾ (M)NPT	0 to 30	400 °F	3 ¼ in	P7575-1EP	Control Devices	**6X209**
¾ (F)NPT	1 (M)NPT	0 to 60	400 °F	3 ½ in	P7510-1EP	Control Devices	**6D918**
1 (F)NPT	1 (M)NPT	0 to 60	400 °F	3 ⅞ in	P1010-1EP	Control Devices	**6X210**
1¼ (F)NPT	1¼ (M)NPT	0 to 130	400 °F	4 ⅜ in	P1212-1EP	Control Devices	**6X211**
Valves for Tubing - Inlet Thread for Compression Fitting							
½ OD	½ (M)NPT	0 to 20	400 °F	2 ⅞ in	C5050-1EP	Control Devices	**6X213**
¾ OD	½ (M)NPT	0 to 30	400 °F	3 in	C7550-1EP	Control Devices	**6X214**
¾ OD	¾ (M)NPT	0 to 30	400 °F	3 ½ in	C7575-1EP	Control Devices	**6X215**
¾ OD	1 (M)NPT	0 to 30	400 °F	3 ⅞ in	C7510-1EP	Control Devices	**6X216**
Bronze							
⅛ (F)NPT	⅛ (F)NPT	0 to 12	450 °F	1 ¾ in	CB13	Control Devices	**6D906**
¼ (F)NPT	¼ (F)NPT	0 to 12	450 °F	1 ¾ in	CB25	Control Devices	**5X780**
⅜ (F)NPT	⅜ (F)NPT	0 to 22	450 °F	2 3⁄16 in	CB33	Control Devices	**5X781**
½ (F)NPT	½ (F)NPT	0 to 38	450 °F	2 ½ in	CB50	Control Devices	**5X782**
¾ (F)NPT	¾ (F)NPT	0 to 60	450 °F	2 ⅞ in	CB75	Control Devices	**5X783**
1 (F)NPT	1 (F)NPT	0 to 115	450 °F	3 ½ in	CB10	Control Devices	**2A165**
1¼ (F)NPT	1¼ (F)NPT	0 to 160	450 °F	3 ⅞ in	CB12	Control Devices	**2A166**
1½ (F)NPT	1½ (F)NPT	0 to 160	450 °F	4 ⅛ in	CB15	Control Devices	**6D907**
2 (F)NPT	2 (F)NPT	0 to 220	450 °F	4 ½ in	CB20	Control Devices	**6D908**
Unloader and Check Valves							
Unloader							
⅛	—	0 to 1	250 °F	⅝ in	CS12-100	Control Devices	**36JN38**
¼	—	0 to 2	250 °F	49⁄64 in	CS25-100	Control Devices	**36JN39**
Unloader, NPT Inlet							
¼ (F)NPT	¼ (M)NPT	1 to 6	450 °F	1 ¾ in	PA6-1A	Control Devices	**5A703**
⅜ (F)NPT	⅜ (M)NPT	3 to 12	450 °F	1 13⁄16 in	PA12-1A	Control Devices	**5A704**
½ (F)NPT	½ (M)NPT	8 to 24	450 °F	2 ¼ in	PA24-1A	Control Devices	**5A705**
¾ (F)NPT	¾ (M)NPT	15 to 48	450 °F	2 ⅜ in	PA48-1A	Control Devices	**5A706**
Unloader Check Valves, Compression Fit Inlet							
⅜ OD	¼ (M)NPT	1 to 6	450 °F	1 9⁄16 in	CA6-1A	Control Devices	**4X996**
½ OD	⅜ (M)NPT	3 to 12	450 °F	1 11⁄16 in	CA12-1A	Control Devices	**4X997**
¾ OD	½ (M)NPT	8 to 24	450 °F	2 ⅛ in	CA24-1A	Control Devices	**4X998**
¾ OD	¾ (M)NPT	15 to 48	450 °F	2 3⁄16 in	CA48-1A	Control Devices	**4X999**
In-Line							
¼ (F)NPT	¼ (F)NPT	0 to 12	400 °F	2 ⅛ in	IC25-AB	Control Devices	**3ETU5**
⅜ (F)NPT	⅜ (F)NPT	0 to 12	400 °F	2 ⅛ in	IC38-AB	Control Devices	**3ETU6**
½ (F)NPT	½ (F)NPT	0 to 20	400 °F	2 ⅞ in	IC50	Control Devices	**4X828**
¾ (F)NPT	¾ (F)NPT	0 to 30	400 °F	3 ¼ in	IC75	Control Devices	**4X829**
1 (F)NPT	1 (F)NPT	60	450 °F	4 in	CLB1	Conrader	**12U306**
1½ (F)NPT	1½ (F)NPT	90	450 °F	4 ½ in	CLB112112-HF-FS	Conrader	**12U307**

3X818

39EN81

Unloader Pilot Valves

Use on compressors with suction valve head unloaders. Easy opening manual unloader sleeve allows start-up under no load conditions. Forged brass body; stainless steel springs and ball. 3X818 includes ¼" x ¼" (M) NPT adapter.

Pressure Range (psi)	(F)NPT Outlet (in.)	Preset Setting (psi)	Max. Temp. (°F)	Max. Working Pressure (psi)	Mfr. Model	Brand	Item No.
95 to 250	⅛	—	350	250	P25G-F	Control Devices	**3X818**
20 to 1200 psi	⅜ in	95 to 125 psi	350 Degrees F	1,200	RCL-S-HU-95-125	Conrader	**39EN84**
20 to 1200 psi	⅜ in	125 to 150 psi	350 Degrees F	1,200	RCL-S-HU-125-150	Conrader	**39EN81**
20 to 1200 psi	⅜ in	145 to 175 psi	350 Degrees F	1,200	RCL-S-HU-145-175	Conrader	**39EN82**

4TK14

15X944

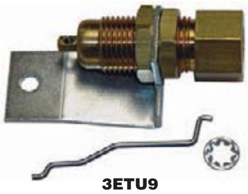
CONRADER control devices, LLC

Continuous Run Unloader Controls

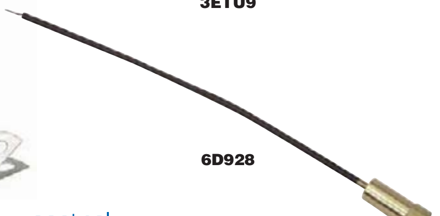
Convert any pressure switch control compressor to a constant speed unloader type. Can be applied to any 30 cfm or less electric or gas engine-driven compressor. 60 to 250 adjustable psi range preset to cut in at 95 psi and out at 115 psi. Contain: pilot valve, check valve, and suction or vent unloader valve.

Pressure Range (psi)	Inlet (in.)	Outlet (in.)	Brand	Item No.
40 to 250 psi	⅜ in	⅜ in	Conrader	**12U308**
60 to 250 psi	½ in	½ in	Control Devices	**4TK14**
95-125	¾	¾	Conrader	**15X944**
145-175	¾	¾	Conrader	**15X945**

12U303



3ETU9



6D928

CONRADER control devices, LLC

Engine-Driven Compressor Throttle Controls

Can be used with all makes of unloader controls and pilot valves to throttle engine back to idle whenever compressor is unloaded. 8 HP compressors or less. ⅛" (M)NPT. 3ETU9 is engine-mounted. Cable throttle controls have stainless steel cables and fit all major engine types, 8 HP and higher.

(M)NPT Size (in.)	Fits	Brand	Mfr. Model	Item No.
Airline Throttle Control				
¼ in	Honda Engines 5 ½ to 6 ½ hp	Conrader	TCSP-H-5565-B	**12U303**
	Honda Engines 8 to 9 hp	Conrader	TCSP-H-0809-B	**12U304**
	Honda Engines 11 to 13 hp	Conrader	TCSP-H-1113-B	**12U305**
⅛ in	Honda GX160	Conrader	TCSA-5565S-SC	**29FK75**
	Kohler 9.8 hp	Conrader	TCSA-KD420	**29FK80**
	Kohler 18 hp	Conrader	TCXLIW-KDW702	**29FK81**
	Kohler 14 hp	Conrader	TCXLPW-3-M1-B2-IC-SST	**29FK82**
	Robin Engine 4.5-5.5 hp	Conrader	TCSA-R-4565-HC	**29FK83**
Pneumatic Driven Compressor Throttle Control				
⅛ in	Honda 5.5 hp Stroke: ⅝ in	Control Devices	TC63-4KA000	**3ETU9**

(M)NPT Size (in.)	Min. Pressure (psi)	Cable Length (in.)	Brand	Mfr. Model	Item No.
Cable Throttle Control					
⅛ in	40 psi	18 in	Conrader	TCLP-18	**12U309** *
		24 in	Conrader	TCLP-24	**12U310** *
		36 in	Conrader	TCLP-36	**12U311** *
		48 in	Conrader	TCLP-48	**12U312** *
		—	Conrader	TCMA-H39-LB	**29FK74**
	60 psi	18 in	Control Devices	TC12-1AA018	**6D928**
		24 in	Control Devices	TC12-1AA024	**6D929**
		48 in	Control Devices	TC12-1AA048	**6D930**
	100 psi	24 in	Conrader	TCXLPW-24	**29FK76** †
		36 in	Conrader	TCXLPW-36	**29FK77** †
		48 in	Conrader	TCXLPW-48	**29FK78** †
		54 in	Conrader	TCXLPW-54	**29FK79** †

Pressure Range (psi)	Inlet (in.)	Outlet (in.)	Brand	Mfr. Model	Item No.
Unloader Pilot Valves					
100 to 125 psi	¼ in	⅛ in	Conrader	RCB-M-HU-100-125	**29FK86**
111 to 133 psi	¼ in	⅛ in	Conrader	RCB-M-HU-111-133	**29FK87**

** 16-lb. spring force. † 29-lb. spring force.*

Inlet/Discharge Silencers

SOLBERG

Reduce noise levels by 5dBA. Can be used on inlet and outlet side and in the pressure relief valve circuit.

Inlet/ Outlet (in.)	Dim. (in.) L	Dia.	Mfr. Model	Item No.
½ (M)NPT	14 ½ in	2 ½ in	SLCRT050	**3TKY6**
¾ (M)NPT	14 ½ in	2 ½ in	SLCRT075	**3TKY7**
1 (F)NPT	12 in	2 ½ in	SLCR-100	**4FY56**
1 (M)NPT	14 ½ in	2 ½ in	SLCRT100	**3TKY8**
1¼ (F)NPT	12 in	2 ½ in	SLCR-125	**4FY58**
1¼ (M)NPT	14 ½ in	2 ½ in	SLCRT125	**3TKY9**
1½ (F)NPT	12 in	3 in	SLCR-150	**4FY60**
1½ (M)NPT	14 in	3 ⅛ in	SLCRT150	**3TKZ1**
2 (F)NPT	15 ¾ in	3 ½ in	SLCR-200	**4FY62**
2 (M)NPT	18 ½ in	3 ⅝ in	SLCRT200	**3TKZ2**
2½ (F)NPT	21 in	4 ½ in	SLCR-250	**4FY64**
2½ (M)NPT	23 11⁄16 in	4 ⅝ in	SLCRT250	**3TKZ3**
3 (F)NPT	26 in	5 in	SLCR-300	**4FY66**
3 (M)NPT	28 in	5 ⅛ in	SLCRT300	**3TKZ4**
4 (F)NPT	23 ⅞ in	10 in	SLCR400	**3TKY5**
4 (M)NPT	29 5⁄16 in	10 in	SLCRT400	**3TKZ5**

4FY56

3TKZ4

1TBZ9

5JRD0

SOLBERG

Positive Displacement (PD) Blower Replacement Filter Cartridges

Feature paper or polyester filter elements and retrofit most common PD blower filter housings to help maintain proper air flow and extend blower life.

Dia. (in.) Inside	Outside	H (in.)	Mfr. Model	Item No.
Paper				
4 in	5 13⁄16 in	2 in	32-00	**5JRC6**
4 ¼ in	6 in	2 ½ in	32-02	**1TBZ9**
7 ¼ in	9 ¾ in	4 in	32-04	**1TCA1**
	9 ¾ in	6 in	32-06	**1TCA2**
9 ⅞ in	11 ½ in	7 in	32-08	**1TCA3**
11 ⅝ in	13 ⅝ in	8 ⅝ in	32-10	**1TCA4**
13 in	17 in	10 in	32-12	**5JRC7**
19 in	23 in	14 in	32-14	**5JRC8**
Polyester				
4 in	5 13⁄16 in	2 in	32-01	**5JRC9**
4 ¼ in	6 in	2 ½ in	32-03	**5JRD0**
7 ¼ in	9 ¾ in	4 in	32-05	**5JRD1**
	9 ¾ in	6 in	32-07	**5JRD2**
9 ⅞ in	11 ½ in	7 in	32-09	**5JRD3**
11 ⅝ in	13 ⅝ in	8 ⅝ in	32-11	**5JRD4**
13 in	17 in	10 in	32-13	**5JRD5**
19 in	23 in	14 in	32-15	**5JRD6**

Oil Mist Exhaust Filters and Replacement Filter Elements

SOLBERG

- Carbon steel bowl type
- Manual drain recirculates oil back to pump
- 0.3-micron, multilayered glass media replacement elements
- Temp. range: 68° to 180°F

Exhaust filters trap oil fog, mist, or smoke from discharge of oil-flooded vacuum pumps and return oil to pump before oil mist contaminates work environment. Feature large oil holding capacity. Pleated coalescing element provides increased surface area to minimize back pressure of system and maximize filtration efficiency. O-ring seals prevent leakage.

3TLH5

Pipe Size	Max. Flow	Overall H	W	Mfr. Model	Item No.
Oil Removal Filters					
1" FNPT	50 cfm	6 ¾ in	7 5⁄16 in	HDL-PSG848-100HC	**3TLH1**
1½" FNPT	50 cfm	6 ¾ in	7 5⁄16 in	HDL-PSG848-150HC	**3TLH2**
2" FNPT	125 cfm	11 ¼ in	8 ¾ in	HDL-PSG850/1-200HC	**3TLH3**
2" FNPT	200 cfm	17 ½ in	8 ¾ in	HDL-PSG860/1-200HC	**3TLH4**
2½" FNPT	300 cfm	15 11⁄16 in	15 ¼ in	HDL-PSG244/2-250C	**3TLH5**
3" MNPT	300 cfm	31 ⅛ in	14 in	HDL-PSG344/2-300	**3TLH6**
4" MNPT	500 cfm	31 ⅛ in	14 in	HDL-PSG344/2-400	**3TLH7**
5" MNPT	800 cfm	38 ⅛ in	18 ½ in	HDL-PSG474/2-500	**3TLH8**
6" MNPT	1,100 cfm	39 ⅛ in	18 ½ in	HDL-PSG474/2-600	**3TLH9**
8" Flange NPT	1,800 cfm	38 13⁄16 in	21 in	HDL-PSG476-800F	**3TLJ1**

For Use with Stock No.	Mfr. Model	Item No.
Filter Elements		
3TLH1, 3TLH2	PSG848	**3TLL9**
3TLH3	PSG850/1	**3TLN1**
3TLH4	PSG860/1	**3TLN2**
3TLH5	PSG244/2	**3TLN3**
3TLH6, 3TLH7	PSG344/2	**3TLN4**
3TLH8, 3TLH9	PSG474/2	**3TLN5**
3TLJ1	PSG476	**3TLN6**

3TLL9

For Inlet Vacuum Pump, Injectors, Pads, Filters & Regulators, go to Grainger.com®

6JD03

3TLG3

SOLBERG®

Inlet Vacuum Filters and Separators for Blowers and Vacuum Pumps

Note: For additional standard- and extreme-duty filters, see Grainger.com®.

"L" Style Filters—Install on the inlet of any type of vacuum pump/blower. Filters have O-ring seals and polyester replacement elements. Fitlers are rated for vacuum service.

"T" Style Filters—Cast-aluminum top resists corrosion and has an integrated baffle for longer filter element life.

Inlet (in.)	Max. Flow (cfm)	H (in.)	Dia. (in.)	Mfr. Model	Item No.
"L" Style Filters, Carbon Steel					
⅜ (F)NPT	18 cfm	3 ⅝ in	3 ¾ in	CSL-825-038HC	**6JC97**
½ (F)NPT	18 cfm	3 ⅝ in	3 ¾ in	CSL-825-050HC	**6JC98**
¾ (F)NPT	25 cfm	4 ⅜ in	5 ⅞ in	CSL-843-075HC	**6JC99**
1 (F)NPT	40 cfm	6 ½ in	7 5⁄16 in	CSL-849-100HC	**6JD01**
1¼ (F)NPT	55 cfm	4 ⅜ in	5 ⅞ in	CSL-843-125HC	**4FY76**
1¼ (F)NPT	60 cfm	6 ½ in	7 5⁄16 in	CSL-849-125HC	**6JD02**
1½ (F)NPT	80 cfm	6 ½ in	7 5⁄16 in	CSL-849-150HC	**6JD03**
2 (F)NPT	175 cfm	10 ¼ in	8 ¾ in	CSL-851-200HC	**6JD04**
2½ (F)NPT	210 cfm	10 ½ in	8 ¾ in	CSL-851-250HC	**4FY77**
3 (F)NPT	300 cfm	15 ¾ in	13 ¼ in	CSL-239-300C	**5JRD8**
3 (M)NPT	300 cfm	27 ⅛ in	14 in	CSL-235P-300	**3TLE6**
4 Flange	520 cfm	27 ⅛ in	14 in	CSL-235P-400F	**3TLF5**
4 (M)NPT	520 cfm	27 ⅛ in	14 in	CSL-235P-400	**3TLE8**
5 Flange	800 cfm	28 ⅛ in	18 ½ in	CSL-245P-500F	**3TLF7**
5 (M)NPT	800 cfm	28 ⅛ in	18 ½ in	CSL-245P-500	**3TLF1**
6 Flange	1,100 cfm	29 ⅛ in	18 ½ in	CSL-275P-600F	**3TLF9**
6 (M)NPT	1,100 cfm	29 ⅛ in	18 ½ in	CSL-275P-600	**3TLF3**
8 Flange	1,800 cfm	38 in	22 ½ in	CSL-377P-800F	**3TLG2**
10 Flange	2,900 cfm	57 ½ in	26 7⁄16 in	CSL-685P-1000F	**5JRD7**
"T" Style Filters, Aluminum Head, Polycarbonate Bucket					
1 (F)NPT	40 cfm	13 ⅜ in	7 in	ST-897-100C	**46F384**
1¼ (F)NPT	60 cfm	13 ⅜ in	7 in	ST-897-125C	**46F385**
1½ (F)NPT	80 cfm	13 ⅜ in	7 in	ST-897-150C	**46F386**
2 (F)NPT	175 cfm	16 ¼ in	9 in	ST-851/1-200C	**3TLG3**
2 ½ (F)NPT	210 cfm	16 ¼ in	9 in	ST-851/1-250C	**3TLG4**
3 (F)NPT	300 cfm	19 ¾ in	13 ½ in	ST-235P-300C	**3TLG5**
4 (F)NPT	520 cfm	19 ¾ in	13 ½ in	ST-235P-400C	**3TLG6**

SOLBERG®

5JPZ5

Liquid Separators for Blowers and Vacuum Pumps

- See-through drop bucket
- Manual drain type
- Cast-aluminum head

Separate liquid, debris, and sludge from the air stream to protect pump from damage; integrated float ball cuts off airflow when the liquid level reaches max. capacity. Use with regenerative blowers in food packaging, soil remediation, and metal/chip processing applications, as well as with vacuum pumps and systems.

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
1¼" NPT	60 cfm	13⅝""	7 in	STS-125C	**38XT78**
1½" NPT	80 cfm	13⅝"	7 in	STS-150C	**38XT76**
1" NPT	40 cfm	13⅝"	7 in	STS-100C	**38XT77**
2" NPT	175 cfm	16.75"	9 in	STS-200C	**5JPZ5**
2½" NPT	210 cfm	16.75"	9 in	STS-250C	**5JPZ6**
3" NPT	300 cfm	19.75"	13 ½ in	STS-300C	**5JPZ7**
4" NPT	500 cfm	19.75"	13 ½ in	STS-400C	**5JPZ8**

Filter Silencers and Replacement Cartridges

SOLBERG®

Filter Silencer, Carbon Steel Housing—Silencing tubes decrease noise levels.

Filter with Hood, Carbon Steel Housing—For use where noise reduction is not necessary.

Note: For additional filter silencers, see Grainger.com®.

5Z665

1R416

	POLYESTER	PAPER
99% Efficient at 5 Microns	•	
99% Efficient at 2 Microns		•
Handles Hot Air and Oil from Unload Cycle	•	
For Outdoor High-Moisture Applications	•	
Washable and Durable	•	
Disposable and Convenient		•

Outlet (in.)	Max. Flow (cfm)	H (in.)	Dia. (in.)	Mfr. Model	Item No.
Filter Silencer, Carbon Steel Housing					
¼ in (M)NPT	4 cfm	2 ¾ in	2 ½ in	FS-04-025	**5Z766**
⅜ (M)NPT	6 cfm	2 ¾ in	2 ½ in	FS-04-038	**5Z767**
½ in (M)NPT	10 cfm	3 13⁄16 in	3 ¼ in	FS-06-050	**5Z665**
	12 cfm	4 ⅛ in	4 ⅛ in	FS-10-050	**4FY36**
¾ (M)NPT	25 cfm	4 in	6 in	FS-15-075	**4Z679**
1 in (M)NPT	35 cfm	4 in	6 in	FS-15-100	**4Z680**
	55 cfm	6 ⅝ in	6 in	FS-19P-100	**5JPZ9**
1¼ in (M)NPT	70 cfm	6 ⅝ in	6 ⅛ in	FS-19P-125	**4Z681**
1½ in (M)NPT	85 cfm	6 ⅝ in	6 in	FS-19P-150	**4Z682**
2 (M)NPT	135 cfm	7 ¼ in	10 in	FS-31P-200	**4FY33**
	135 cfm	12 ¼ in	10 in	FS-231P-200	**3RAU8**
2½ (M)NPT	195 cfm	7 ½ in	10 in	FS-31P-250	**4FY34**
	195 cfm	12 ½ in	10 in	FS-231P-250	**3RAU9**
3 (M)NPT	300 cfm	12 ¼ in	10 in	FS-231P-300	**4FY35**
4 (M)NPT	520 cfm	14 in	16 in	FS-275P-400	**3RAV2**
	520 cfm	14 in	16 in	FS-235P-400	**1TBZ7**
5 Flange	800 cfm	14 in	16 in	FS-275P-500F	**3TKX5**
6 Flange	1,100 cfm	15 in	16 in	FS-275P-600F	**3TKX6**
8 Flange	1,800 cfm	23 in	22 ½ in	FS-377P-800F	**3TKX8**
Filter with Hood, Carbon Steel Housing					
½ in (M)NPT	10 cfm	4 in	6 in	F-15-050	**3TKZ6**
¾ (M)NPT	25 cfm	4 in	6 in	F-15-075	**3TKZ7**
1 in (M)NPT	35 cfm	4 in	6 in	F-15-100	**3TKZ8**
	55 cfm	6 ⅝ in	6 in	F-19P-100	**3TKZ9**
1¼ in (M)NPT	70 cfm	6 ⅝ in	6 in	F-19P-125	**3TLA1**
1½ in (M)NPT	85 cfm	6 ⅝ in	6 in	F-19P-150	**3TLA2**
2 (M)NPT	135 cfm	7 ¼ in	7 ¾ in	F-31P-200	**3TLA3**
	135 cfm	12 ¼ in	12 ¼ in	F-231P-200	**3TLA4**
2½ (M)NPT	195 cfm	7 ½ in	7 ½ in	F-31P-250	**3TLA5**
	195 cfm	12 ½ in	12 ½ in	F-231P-250	**3TLA6**
3 (M)NPT	300 cfm	13 in	10 in	F-235P-300	**3TLA7**
	300 cfm	13 in	16 in	F-275P-300	**3TLA8**
4 (M)NPT	520 cfm	14 in	10 in	F-235P-400	**3TLA9**
5 (M)NPT	800 cfm	14 in	16 in	F-275P-500	**3TLC2**
6 (M)NPT	1,100 cfm	15 in	16 in	F-275P-600	**3TLC3**
6 Flange	1,100 cfm	15 in	16 in	F-275P-600F	**3TLC6**
	1,100 cfm	22 in	22 ½ in	F-377P-600F	**3TLC7**
8 Flange	1,800 cfm	23 in	22 ½ in	F-377P-800F	**3TLC8**

For Use with Blower No.	H (in.)	Inside Dia. (in.)	Outside Dia. (in.)	Mfr. Model	Item No.
Replacement Cartridges					
Paper					
1WF74	1 ⅜ in		4 in	10	**4FY38**
4FY28, 4FY29	1 in	—	1 ⅛ in	02	**4FY37**
FS-04-025, FS-04-038, PS-04-025, PS-04-038, PS-04-050, SS3 Bare, SS3L3	1 in	—	2 ¼ in	04	**5Z768**
FS-06-050	1 ⅜ in	—	3 in	06	**5Z666**
CSL-825-038HC, CSL-825-050HC	2 11⁄16 in	1 ½ in	2 ½ in	824	**3TLL4**
VFD2, VFD2S, VFD3, VFD3S	2 ¾ in	2 ⅜ in	3 ⅞ in	842	**3TLL5**
5Z660, 5Z661, FS-15-075, FS-15-100, VFD2S, VFD3S	2 5⁄16 in	3 in	4 ⅜ in	14	**5A717**
VFD4, VFD42, VFD42S	4 ¾ in	2 9⁄16 in	5 in	848	**3TLL6**
5Z662, 5Z663, FS-19P-125, FS-19P-150, VFC063P-1T, VFC084P-5T, VFC200A-7W, VFC200P-5T, VFC300A-7W, VFC300P-5T, VFD2, VFD2S, VFD3, VFD3S	4 ¾ in	3 in	4 ⅜ in	18P	**5A718**
2EPP2, 2EPP3, 2EPP4, 2EPP5	4 ¾ in	3 ⅝ in	5 ¾ in	30P	**3TLK2**
VFC600A-7W, VFC700A-7W, VFD5, VFD5D, VFD9	8 ⅝ in	3 ½ in	5 ⅞ in	850	**3TLL7**
2EPP1, 2EPP2, 2EPP3, 2EPP4	8 ⅝ in	3 ½ in	5 ⅞ in	850/1	**3TLL8**
2EPP2, 2EPP3, 2EPP4, 2EPP5, 2EPP6, 2EPR1, 2EPR2	9 ½ in	3 ⅝ in	5 ¾ in	230P	**3TLK3**
2EPP8, 2EPR3, 2EPR4	9 ⅝ in	4 ¾ in	7 ⅞ in	234P	**3TLK4**
2EPT4, 2EPT5	9 ⅝ in	6 in	9 ¾ in	244P	**3TLK6**
2EPR7, 2EPR9, 2EPT1	9 ⅝ in	8 in	11 ¾ in	274P	**3TLK8**
2EPR3, 2EPR4, 2EPT8, 2EPT9,, 5F243, 6JD32	10 in	4 ⅞ in	9 ¼ in	238	**5JPW1**
2EPR7, 2EPR9	14 ½ in	4 ¾ in	7 ⅞ in	334P	**3TLK5**
2EPT4 to 5	14 ½ in	6 in	9 ¾ in	344P	**3TLK7**
2EPU1 to 2	14 ½ in	8 in	11 ¾ in	374P	**3TLK9**
2EPU3, 2EPU4, VFT65-2	14 ½ in	9 in	14 ⅝ in	376P	**3TLL1**
1XDX2 to 3	14 ½ in	14 in	19 ⅝ in	384P	**3TLL2**
1XDX4	21 ½ in	14 in	19 ⅝ in	484P	**3TLL3**
Polyester					
CSL-825-038HC, CSL-825-050HC	2 ½ in	1 ½ in	2 ½ in	825	**6JC93**
CSL-843-075HC, IVF-01, VFD2, VFD2S, VFD3, VFD3S	2 ¾ in	2 ⅜ in	3 ⅞ in	843	**6JC94**
VFD2S, VFD3S	2 5⁄16 in	3 in	4 ⅜ in	15	**1R416**
CSL-849-100HC, CSL-849-125HC, CSL-849-150HC, IVF-23, IVF-45, VFD4, VFD42, VFD42S	4 ⅞ in	2 9⁄16 in	5 in	849	**6JC95**
5Z188, 5Z651, 6JD27, 6JD28	4 ¾ in	3 ⅝ in	5 ¾ in	31P	**4FY39**
VFC063P-1T, VFC084P-5T, VFC200A-7W, VFC200P-5T, VFC300A-7W, VFC300P-5T, VFD2, VFD2S, VFD3, VFD3S	4 ¾ in	3 in	4 ⅜ in	19P	**1R417**
CSL-851-200HC, CSL-851-250HC, IVF-67, VFC600A-7W, VFC700A-7W, VFD5, VFD5D, VFD9	8 ¾ in	3 ½ in	5 ⅞ in	851	**6JC96**
5F243, 5Z189, 6JD30, 6JD31, 6JD32	9 ½ in	3 ⅝ in	5 ¾ in	231P	**4FY40**
235P, CT-235P-300C, CT-235P-400C, FS-235P-400, VFC800A-7W, VFC904A-7W, VFD6D, VFD8, VFD9	9 ⅝ in	4 ¾ in	7 ⅞ in	235P	**4FY79**
2EPT4, 2EPT5, VFT60-2	9 ⅝ in	6 in	9 ¾ in	245P	**3TLJ3**
2EPT6, 2EPT7, 2EPU1, VFT60-2	9 ⅝ in	8 in	11 ¾ in	275P	**3TLJ4**
2EPR3, 2EPR4, 2EPT8, 2EPT9,, 5F243, 6JD32	10 in	4 ⅞ in	9 ¼ in	239	**5JPW0**
2EPR3, 2EPR4, 2EPR7, 2EPR8, RD6	14 ½ in	4 ¾ in	7 ⅞ in	335P	**3TLJ2**
1XDW9, 2EPU1 to 2	14 ½ in	8 in	11 ¾ in	375P	**3TLJ5**
2EPU3, 2EPU4, VFT65-2	14 ½ in	9 in	14 ⅝ in	377P	**3TLJ6**
1XDX2 to 3	14 ½ in	14 in	19 ⅝ in	385P	**3TLJ7**
1XDX4	21 ½ in	14 in	19 ⅝ in	485P	**3TLJ8**
2EPU3 to 4	28 ½ in	14 in	19 ⅝ in	685P	**3TLJ9**

For Rotary Vane Air Motor Maintenance Kits, go to Grainger.com®

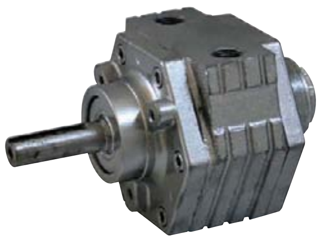
SPEEDAIRE®

Rotary Vane Air Motors

- Max. temp.: 250°F
- Variable speed

Use these compact, low-maintenance air motors in applications that would normally require similar, but more-expensive explosionproof electric motors. Can be operated in extreme temperatures. Cast-iron models include discharge muffler.

22UX55



22UX45

22UX58

HP	Running Torque @ Max. Pressure	Max. Air Flow	No Load RPM	Shaft Dia.	Mounting	Port Size	Rotation*	Item No.
Cast-Iron Air Gearmotors								
0.32 hp	49 in-lb	21 cfm	400 RPM	½ in	Face	⅛ in NPT	REV	**22UX55**
0.34 hp	62 in-lb	21 cfm	350 RPM	½ in	Face	⅛ in NPT	REV	**22UX82**
0.64 hp	172 in-lb	20 cfm	110 RPM	⅞ in	Base	¼ in NPT	CCW	**22UX56**
0.9 hp	256 in-lb	27 cfm	150 RPM	⅝ in	Base	¼ in NPT	CCW	**22UX57**
1.25 hp	400 in-lb	60 cfm	200 RPM	1 in	Face and Foot	¼ in NPT	REV	**22UX81**
1.26 hp	274 in-lb	57.5 cfm	300 RPM	1 in	Face and Foot	¼ in NPT	REV	**22UX54**
Cast-Iron Air Motors								
0.45 hp	2.75 in-lb	20.5 cfm	10,000 RPM	⅜ in	Hub	⅛ in NPT	CCW	**22UX71**
	5.25 in-lb	27 cfm	6,000 RPM	⅜ in	Hub	⅛ in NPT	CW	**22UX41**
	5.25 in-lb	27 cfm	6,000 RPM	⅜ in	Hub	⅛ in NPT	REV	**22UX42**
0.93 hp	19.5 in-lb	30 cfm	3,000 RPM	½ in	Hub	¼ in NPT	CCW	**22UX43**
	19.5 in-lb	30 cfm	3,000 RPM	⅝ in	Flange	¼ in NPT	REV	**22UX44**
	19.5 in-lb	30 cfm	3,000 RPM	½ in	Foot	¼ in NPT	REV	**22UX72**
1.7 hp	36 in-lb	78 cfm	3,000 RPM	⅝ in	Face	⅜ in NPT	REV	**22UX45**
	36 in-lb	78 cfm	3,000 RPM	⅝ in	Flange	¼ in NPT	REV	**22UX46**
	36 in-lb	78 cfm	3,000 RPM	½ in	Foot	¼ in NPT	REV	**22UX73**
	36 in-lb	78 cfm	3,000 RPM	½ in	Foot	¼ in NPT	REV	**22UX74**
	36 in-lb	78 cfm	3,000 RPM	½ in	Face	¼ in NPT	REV	**22UX75**
4 hp	84 in-lb	128 cfm	3,000 RPM	⅝ in	Foot	½ in NPT	REV	**22UX47**
	84 in-lb	128 cfm	3,000 RPM	⅝ in	Flange	½ in NPT	REV	**22UX48**
	84 in-lb	128 cfm	3,000 RPM	⅝ in	Flange	½ in NPT	REV	**22UX49**
	84 in-lb	128 cfm	3,000 RPM	⅝ in	Foot	½ in NPT	REV	**22UX76**
	84 in-lb	128 cfm	3,000 RPM	⅝ in	Face	½ in NPT	REV	**22UX77**
5.25 hp	132 in-lb	175 cfm	2,500 RPM	¾ in	Foot	½ in NPT	REV	**22UX50**
	132 in-lb	175 cfm	2,500 RPM	⅞ in	Flange	½ in NPT	REV	**22UX51**
9.5 hp	290 in-lb	275 cfm	2,000 RPM	1 ⅛ in	Face and Foot	1¼ in NPT	REV	**22UX52**
	290 in-lb	275 cfm	2,000 RPM	⅞ in	Foot and Flange	1¼ in NPT	REV	**22UX53**
Cast-Iron Oilless Air Motors								
0.42 hp	13.5 in-lb	30 cfm	2,000 RPM	½ in	Hub and Foot	¼ in NPT	CCW	**22UX58**
	13.5 in-lb	30 cfm	2,000 RPM	½ in	Hub and Foot	¼ in NPT	CW	**22UX59**
2.5 hp	78.75 in-lb	68 cfm	2,000 RPM	⅝ in	Hub and Foot	½ in NPT	CW	**22UX63**
	78.75 in-lb	68 cfm	2,000 RPM	⅝ in	Hub and Foot	½ in NPT	CCW	**22UX62**
Stainless Steel Air Motors								
0.45 hp	2.75 in-lb	20.5 cfm	10,000 RPM	⅜ in	Face	⅛ in NPT	REV	**22UX65**
1.7 hp	36 in-lb	78 cfm	3,000 RPM	⅝ in	Face	¼ in NPT	REV	**22UX67**

***Clockwise (CW), Counterclockwise (CCW), Reversible (REV).**

Ingersoll Rand

Rotary Multivane Air Gearmotors

- Max. air pressure: 90 psi
- Max. temp.: 150°F

Provide higher torque at low speeds and continuous-duty forward or reverse operation. Keyed steel shafts with case-hardened gearing. Aluminum and steel construction.

1AAG1

HP	Running Torque @ Max. Pressure	Stall Torque	Max. Air Flow	No Load RPM	RPM @ Max. Torque	Shaft Dia.	Shaft Length	Keyway Length	Port Size	Gear Ratio	Overall Length	Outside Dia.	Mfr. Model	Item No.
Flange														
0.31 hp	99 in-lb	198 in-lb	18 cfm	280 RPM	140 RPM	⅜ in	1.0 in	0.125 in	¼ in NPT	50:1	8.87 in	1.76 in	M004RVR050AR3	**1AAF9**
	330 in-lb	396 in-lb	18 cfm	85 RPM	42 RPM	⅜ in	1.0 in	0.125 in	¼ in NPT	167:1	8.87 in	1.76 in	M004RVR167AR3	**1AAG1**
0.34 hp	71 in-lb	142 in-lb	18 cfm	450 RPM	225 RPM	⅜ in	1.0 in	0.125 in	¼ in NPT	33:1	8.11 in	1.76 in	M004RVR033AR3	**1AAF8**
Face														
0.61 hp	612 in-lb	1,224 in-lb	33 cfm	94 RPM	47 RPM	¾ in	2.19 in	0.187 in	¼ in NPT	188:1	13.13 in	2.69 in	M007RVR188BR6	**1AAG2**
	1,212 in-lb	2,424 in-lb	33 cfm	47 RPM	23 RPM	¾ in	2.19 in	0.187 in	¼ in NPT	374:1	13.13 in	2.69 in	M007RVR374BR6	**1AAG3**
3 hp	1,800 in-lb	3,600 in-lb	95 cfm	170 RPM	83 RPM	1 in	2.25 in	0.25 in	½ in NPT	51:1	14.5 in	4.0 in	4840U	**1AAG5**
3.2 hp	378 in-lb	756 in-lb	95 cfm	975 RPM	485 RPM	1 in	2.25 in	0.25 in	½ in NPT	9:1	12.13 in	4.0 in	4840M	**1AAG4**

GAST
A UNIT OF IDEX CORPORATION

Tank-Mounted, Enclosed Oilless Air Compressors

- Field-adjustable pressure switch
- Single phase

Innovative reservoir can provide a blast of high pressure. Tank dampens pulsation from the reciprocating compressor.

All models except 5Z671 incorporate a Gast piston compressor pump listed below. Pressure switch setting: 70 psi-On/90 psi-Off. 5Z671 has 30 psi-On/50 psi-Off. Gray finish.

⅛- and 1/6-HP Compressors—Include pressure switch, manual drain, pressure safety valve, pressure gauge, and globe valve.

⅓- to 1½-HP Compressors—Include coded tank, pressure switch, manual drain, pressure safety valve, pressure gauge, and globe valve. 5Z676 has magnetic starter.

5Z672

5Z675

HP	Voltage	Amps AC	Tank Size	(F)NPT Outlet	Overall L	Overall W	Overall H	Mfr. Model	Item No.
⅛	115	—	2 gal.	¼ in	18 in	8 in	15 in	DOA-P710T-AA	**5Z671**
⅙	115	—	2 gal.	¼ in	18 in	8 in	17 in	1HAB-84T-M100X	**5Z672**
	115	—	2 gal.	¼ in	18 in	8 in	17 in	1LAA-251T-M100X	**2CJH1**
⅓	115	—	12 gal.	¼ in	26 in	14 in	21 in	3HBB-69T-M300AX	**11X372**
¾	115/230	15.8/7.9	2 gal.	¼ in	18 in	13 in	22 in	5HCD-101T-M550NGX	**5Z674**
	115/230	15.8/7.9	20 gal.	¼ in	33 in	16 in	27 in	5HCD-100TA-M550NGX	**5Z675** *
1½	230	—	30 gal.	⅜ in	38 in	17 in	29 in	7HDD-70TA-M750X	**5Z676**

5Z675 is factory wired for 230V, may be converted to 115V.

4F740

4Z470

Rotary Vane Compressors and Vacuum Pumps

GAST — A UNIT OF IDEX CORPORATION

- Oilless design
- Permanently lubricated and sealed bearings
- Self-adjusting, self-lubricating vanes

For general continuous-duty vacuum and low-pressure applications. 3KYY4, 4F740, 4F741, 4F742, 4TF21, and 4TF22 have integral mufflers and filters, as well as international multivoltage, dual-frequency motors. All units are single phase except for 2CJG8 and 4TF21; single-phase units have thermal overload protection. 4Z470 and 4Z469 include coupling and coupling guard. Mount directly to 56C frame motors.

Note: When used for pond aeration, include the appropriate check valve in discharge line to prevent water from entering pump in case of power failure.

HP	Phase	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM (psi) 0	Free Air CFM (psi) 10	Free Air CFM @ In. Hg 0	Free Air CFM @ In. Hg 10	Free Air CFM @ In. Hg 20	Mfr. Model	Item No.
Compressor/Vacuum Pumps												
¼ hp	Single	115/208-230V AC	4.5	¼ in	¼ in	—	—	4.2	2.8	0.1	0523-V4-G588NDX	**3KYY4**
¾ hp	Single	115/230V AC	4.6/2.3	¼ in	¼ in	4.80	3.9	5.0	3.0	0.5	0523-V191Q-G588NDX	**4F740** *
	Single	115/230V AC	12.2/6.1	⅜ in	⅜ in	8.00	6.8	8.0	5.0	0.5	0823-V131Q-G608NEX	**4F741** *
	Single	115/230V AC	12.2/6.1	⅜ in	⅜ in	10.00	9.0	10.0	6.3	0.8	1023-V131Q-G608NEX	**4F742** *
	Three	230/460V AC	2.6/1.3	⅜ in	⅜ in	10.00	—	10.0	5.0	0.2	1023-251Q-G279	**2CJG8**
1 hp	Three	230/460V AC	3.0/1.5	⅜ in	⅜ in	13.50	10.0	13.2	8.0	0.0	1423-103Q-G625	**4TF21** †
	Single	115/230V AC	13.0/6.5	⅜ in	⅜ in	13.50	10.0	13.2	8.0	0.0	1423-103Q-G626X	**4TF22** *
Vacuum Pump/Air Compressor with Motor												
1	Single	115/230V AC	8.4/4.6-4.2	¾ in	¾ in	17.00	12.50	17.00	9.50	1.00	7Z778	**7Z778**
	Single	115/230V AC	10.0/5.0	¾ in	¾ in	17.00	12.50	17.00	9.50	1.00	7Z779	**7Z779**
	Three	230/460V AC	3.6-3.8/1.9	¾ in	¾ in	17.00	12.50	17.00	9.50	1.00	7Z781	**7Z781**
1½	Single	115/230V AC	15.2/8.2-7.6	¾ in	¾ in	21.00	17.90	21.00	13.00	1.50	7Z782	**7Z782**
	Three	230/460V AC	4.6/2.3	¾ in	¾ in	21.00	17.90	21.00	13.00	1.50	7Z783	**7Z783**
Vacuum Pump/Air Compressor without Motor												
¾ hp	—	Motorless	—	½ in	½ in	13.50	12.00	14.50	9.00	4.00	1550-600	**53VC79**
1 hp	—	Motorless	—	¾ in	¾ in	17.00	12.5	17.0	10.0	1.0	2067-V108	**4Z469**
1 ½ hp	—	Motorless	—	¾ in	¾ in	21.00	17.9	21.0	13.0	1.1	2567-V108	**4Z470**

*If 50 Hz is used, deduct 17% from cfm Ratings. * Can operate at 100-115/200-208-230V 50 Hz. † Can operate at 220/240-380 50 Hz.*

5Z346

2Z866

4Z791

GAST — A UNIT OF IDEX CORPORATION
THOMAS by Gardner Denver

Diaphragm Compressors/ Vacuum Pumps

- Pressure or vacuum without modification
- Quiet operation

Permanently lubricated, virtually maintenance-free units offer the versatility of reversible ⅛" and ¼" inlet and outlet ports. Thomas products 4Z792, 4Z791, and 5Z348 come equipped with a 6-ft. grounded power cord.

HP	Voltage	Full Load Amps	Max. Vacuum	Max. PSI Cont./Int.	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 30	Free Air CFM @ Vacuum 0	Free Air CFM @ Vacuum 20	Overall L	Overall W	Overall H	Brand	Mfr. Model	Item No.
Compressor/Vacuum Pumps																
1⁄125 hp	12V DC	0.3	14.0 in Hg	15	¼ in	¼ in	0.15	0	0.17	0	3.06 in	1.31 in	2.12 in	Gast	10D1125-101-1052	**36XD65**
1⁄125 hp	24V DC	0.3	14.0 in Hg	15/15	¼ in	¼ in	0.15	0	0.17	0	3 in	1.25 in	2.12 in	Gast	10D1125-101-1053	**33K758**
1⁄50 hp	24V DC	0.6	22.0 in Hg	20	¼ in	¼ in	0.25	0	0.25	0	4 in	1.87 in	1.81 in	Gast	15D1150-101-1014	**36XD66**
1⁄20 hp	12V DC	4.0	22.5 in Hg	—	⅛ in	⅛ in	1.2	0	1.2	0.1	6.33 in	3.5 in	5.68 in	Gast	22D1180-201-1088	**36XD67**
1⁄20 hp	115V AC	1.6	23.2 in Hg	5/5	⅛ in	⅛ in	1.65	—	1.65	0.17	8 in	4.25 in	4.75 in	Thomas	2107CA20	**5Z347**
1⁄20 hp	115V AC	1.7	22.1 in Hg	20/30	⅛ in	⅛ in	0.69	0.14	0.69	0.05	7 in	4.25 in	4.75 in	Thomas	107CAB18	**5Z346**
1⁄15 hp	115V AC	2	22.4 in Hg	—	¼ in	¼ in	—	—	1.3	0.13	8 3⁄16 in	4 ¾ in	6 15⁄16 in	Thomas	900-58	**4Z792**
1⁄10 hp	12V DC	9.5	22.9 in Hg	35/35	⅛ in	⅛ in	1.4	0.49	1.4	0.0	7.37 in	4.25 in	4.75 in	Thomas	107CDC20	**4XL32**
1⁄10 hp	12V DC	10.8	22.2 in Hg	30/30	¼ in	¼ in	2.05	0.35	2.05	0.0	7.87 in	4.25 in	5.89 in	Thomas	907CDC18	**4XL33**
⅛ hp	24V DC	4.0	22.5 in Hg	25	⅛ in	⅛ in	1.3	0	1.3	0.1	7.75 in	3.5 in	5.68 in	Gast	22D1180-202-1005	**36XD68**
⅛ hp	115V AC	2.8	24.0 in Hg	50/50	¼ in	¼ in	1.6	0.6	1.6	0.25	9 in	4.68 in	4.75 in	Gast	MAA-P251-MB	**5KA83**
⅛ hp	115V AC	3	23.8 in Hg	30/40	¼ in	¼ in	1.24	0.44	1.24	0.16	7.87 in	4.75 in	6.87 in	Thomas	927CA18	**5Z348**
⅛ hp	115V AC	4.2	25.5 in Hg	60/60	¼ in	¼ in	1.1	0.55	1.1	0.2	7.62 in	5.12 in	7.68 in	Gast	DOA-P707-AA	**2Z866**
⅛ hp	115V AC	4.5	25.5 in Hg	60/60	⅜ in	⅜ in	1.9	—	—	0.3	7.62 in	5.12 in	8 in	Gast	DOA-P704-AA	**3KYY6**
⅓ hp	110/115V AC	4.8/3.3	25.5 in Hg	60/60	¼ in	¼ in	1.9	0.9	1.9	0.3	7.62 in	5.12 in	7.62 in	Gast	DOA-P707-FB	**4Z024**
⅓ hp	115V AC	4.5	25.5 in Hg	60/60	¼ in	¼ in	1.9	0.95	1.9	0.3	7.62 in	5.12 in	8 in	Gast	DOA-V751-FB	**5KA84**
Compressor Pumps																
1⁄15 hp	115V AC	2.4	—	20/35	¼ in	¼ in	1.3	—	—	—	8 in	4.75 in	6.75 in	Thomas	900-59	**4Z791**
Dual Diaphragm Linear Compressor Pumps																
—	115V AC	0.37	8.0 in Hg	4.0/4.0	⅛ in	⅛ in	2.05	—	2.0	0.0	4.62 in	5 in	3.33 in	Thomas	150057	**5GUM9**

Piston Air Compressors/Pumps

GAST A UNIT OF IDEX CORPORATION

- Max. pressure: 100 psi

Shaded pole motors have automatic thermal protection. Rated for continuous duty. Corrosion-resistant sandwich valve stops foreign particles from lodging on valve seats. Aluminum cylinders and cylinder heads. Thermally protected motors with high torque start windings (except 5KA88, 5KA89, and 2CJH3). Gray finish.

2Z870

HP	Phase	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 50	L	Overall W	H	Mfr. Model	Item No.
1/6 hp	Single	115V AC	4.3	¼ in	¼ in	1.27	0.65	11.625 in	5.625 in	8.5 in	1HAB-44-M100X	**2Z867**
¼ hp	Single	115V AC	6.8	¼ in	¼ in	1.65	1.15	12.125 in	5.625 in	8.5 in	2HAH-24-M200X	**5Z668**
⅓ hp	Single	115V AC	6.6	¼ in	¼ in	2.3	1.1	17.25 in	14.25 in	11.25 in	3HBB-32-M300AX	**11X371**
	Single	12V DC	46	¼ in	¼ in	1.85	1.1	14 in	5.625 in	8.625 in	2HAH-251-M322A	**5KA88**
	Single	12V DC	46	¼ in	¼ in	2.4	1.5	15.25 in	10.875 in	5.875 in	3HBB-251-M322A	**5KA89**
½ hp	Single	115/230V AC	12/6	¼ in	¼ in	3.48	2.4	13.25 in	12 in	8.875 in	4HCC-40-M450X	**2Z869**
¾ hp	Single	115/208-230V AC	14/7	¼ in	¼ in	4.65	3.4	14.5 in	12.062 in	8.875 in	5HCD-43-M550NGX	**2Z870**
1 hp	Single	115/230V AC	14.8/7.4	¼ in	¼ in	5.4	4	17.625 in	12.25 in	8.937 in	6HCA-12-M616NEX	**4Z706**
1 ½ hp	Single	115/208-230V AC	21.6/12/10.8	⅜ in	⅜ in	9.0	6.5	20.75 in	12.062 in	8.5 in	7HDD-57-M750X	**4Z460**
2 hp	Single	115/230V AC	24/12	⅜ in	⅜ in	11.0	8.5	21.5 in	12.25 in	8.5 in	8HDM-19-M850X	**4Z707**
	Three	230/460V AC	6.6/3.3	⅜ in	⅜ in	11.0	8.75	22.375 in	12.375 in	8.75 in	8HDM-251-M853	**2CJH3**

3HDG6

GAST A UNIT OF IDEX CORPORATION

Oilless Piston Dry Sprinkler Compressors

- Max. pressure (cont./int.): 50 psi
- Single-phase, 60 Hz

Specifically designed for the fire protection industry. Units include inlet filters, pressure safety valve, pressure switch, check valve, tubing, and fittings.

3HDH2

HP	Voltage	Full Load Amps	Inlet Size	Outlet Size	Free Air CFM @ PSI 0	Free Air CFM @ PSI 20	Motor Type	L	Overall W	H	Mfr. Model	Item No.
Tankless												
½ hp	115/230V AC	12/6	¼ in	¼ in	3.1	3.5	Capacitor Start	16.062 in	12.25 in	8.333 in	4LCB-246S-M450GX	**3HDG6**
¾ hp	115/230V AC	16/8	¼ in	¼ in	4.2	4.8	Capacitor Start	17.187 in	12.25 in	8.333 in	5LCA-246S-M550GX	**3HDG7**
1 hp	115/230V AC	14.8/7.4	⅜ in	⅜ in	5.9	5.6	Capacitor Start	16.75 in	12.333 in	8.333 in	6LCF-246S-M616NEX	**3HDG8**
Hot Dog												
¼	115	5.8	¼ in	¼ in	1.50	—	Open Dripproof	26 in	13 in	21 in	2LAF-246T-M200EX	**3HDH2**
Horizontal												
2 hp	110/220V AC, 115/230V AC	24/12	¼ in	¾ in	12.4	10.8	Capacitor Start	38 in	17 in	28.625 in	8LDF-46T-M850X	**26JY09**

THOMAS by Gardner Denver

TA Series Air Compressors/Vacuum Pumps

Powerful pumps feature a 1725 rpm motor with permanently lubricated, sealed ball bearings. Automatic reset thermal protection. ¼" (F)NPT outlet.

TA SERIES, HIGH-FLOW, 2-STAGE

Capacitor-start, high-torque motor features heavy-duty piston, cast-iron cylinder sleeves, and low-lift reed valves. Allows for direct coupling of pressure switch, eliminating need for air tank.

3HCA6

HP	Voltage	Full Load Amps	Max. PSI Cont./Int.	Free Air CFM @ PSI 0	20	50	100	L	Overall W	H	Mfr. Model	Item No.
TA Series, High-Flow, 2-Stage												
⅓ hp	115/230V AC	8/4	175	1.4	1.35	1.27	1.15	14.5 in	11.203 in	7 in	270072	**3HCA5**
½ hp	115/230V AC	7.3/3.6	175	1.8	1.78	1.75	1.65	14.5 in	11.609 in	7 in	270073	**3HCA6**
¾ hp	115/230V AC	10.6/5.3	175	2.4	2.37	2.33	2.25	15.5 in	12 in	7 in	270080	**3HCA7**

Oilless Articulating High-Flow Compressors/Vacuum Pumps

GAST A UNIT OF IDEX CORPORATION

THOMAS by Gardner Denver

Permanently lubricated components and stainless steel valves provide long life and max. performance. Pump cylinders are corrosion-resistant for harsh environments.

E SERIES AIR COMPRESSOR

- Fully enclosed to protect against harsh environments
- Runs quietly—72dBA at 100 psi

Has full pressure restart capabilities. Features permanent magnet DC motor and 2 cast-iron cylinders.

2KFU8

5KA94

HP	Voltage	Full Load Amps	Max. PSI Cont./Int.	Max. Vacuum	Free Air CFM @ psi 0	20	50	Free Air CFM @ In. Hg 0	10	20	Overall Length	Overall Width	Overall Height	Brand	Mfr. Model	Item No.
⅙ hp	115V AC VAC	4.3	50/50	26 in Hg	1.5	1.2	0.9	1.5	0.7	0.28	11.625 in	5.625 in	8.5 in	Gast	1LAA-251-M100X	**5KA91**
¼ hp	115V AC VAC	6.8	50/50	27.5 in Hg	2.0	1.75	1.5	2.0	1.0	0.41	12.5 in	5.625 in	8.625 in	Gast	2LAF-251-M200X	**5KA92**
	12V DC VAC	26	-/100	—	1.7	1.4	1.09	—	—	—	11.562 in	5.812 in	5.812 in	Thomas	270024	**5GUM8**
⅓ hp	115V AC VAC	6.6	50/50	—	2.3	2.3	1.8	—	—	—	17.25 in	14.25 in	11.25 in	Gast	3LBA-10-M300AX	**11X373**
	12V DC VAC	28	-/100	—	2.2	1.75	1.34	—	—	—	11.2 in	5.625 in	8.625 in	Thomas	270025	**2KFU8**
	24V DC VAC	18.5	-/100	—	2.2	1.75	1.34	—	—	—	11.2 in	5.812 in	8.625 in	Thomas	270047	**5GUM7**
½ hp	115/230V AC VAC	12/6	50/50	27.5 in Hg	4.5	3.5	3	4.5	1.5	0.6	13.166 in	12 in	8.875 in	Gast	4LCB-251-M450X	**5KA94**
¾ hp	115/230V AC VAC	16/8	50/50	27.5 in Hg	5.4	4.8	4	5.4	1.5	0.6	14.5 in	12.25 in	8.875 in	Gast	5LCA-251-M550NGX	**5KA95**
E Series Air Compressor																
½ hp	12V DC VAC	52	-/100	—	3.35	2.8	2.25	—	—	—	15.312 in	10.125 in	7.5 in	Thomas	270063	**1CZC7**

5Z349

Oilless Rocking Piston Air Compressors/Vacuum Pumps

- Continuous-duty rated
- Quiet-running—63dBA at 60 psi

Units feature rugged flexible piston cup and shaded-pole motor with automatic thermal protection and high-torque start windings. Corrosion-resistant sandwich valve stops foreign particles from lodging on valve seats. Aluminum cylinders, cylinder heads, and pistons.

Welch—Provide adjustable vacuum for light industrial and QC laboratory applications. 38XV25 can handle high-moisture vapor loads and has a 10-gal. vacuum tank system for pick and place, small scale vacuum forming, and vacuum chucking.

For Use With	Brand	Item No.
Service Kits		
1007CK72	Thomas	**2KFW2**
2688CE44, 2688VE44	Thomas	**2KFW3**
405ADC38/12	Thomas	**2KFV7**
5Z351	Thomas	**2KFW5**
617CA22	Thomas	**2KFW1**
617CA32	Thomas	**2KFV4**
688CE44	Thomas	**2KFV9**

HP	No. of Cylinders	Voltage	Full Load Amps	Max. PSI Cont./Int.	Max. Vacuum	Inlet Size	Outlet Size	Free Air CFM @ psi 0	Free Air CFM @ psi 100	Free Air CFM @ In. Hg 10	Free Air CFM @ In. Hg 20	Brand	Mfr. Model	Item No.
Horizontal														
½ hp	2	115V AC	—	—	26 in Hg	⅜ in	⅜ in	7.1	—	4.6	2.3	Welch	8150B-30	**38XV25**
Tankless														
1⁄10 hp	1	12V DC	10.5	100/100	—	⅛ in	¼ in	0.79	0.24	—	—	Thomas	405ADC38/12	**5Z349**
7⁄64 hp	1	11-15V DC	9	100	27.0 in Hg	¼ in	¼ in	0.7	0.1	0.3	0.15	Gast	LOA-101-JR	**33K842**
⅛ hp	1	115/230V AC	1.4/.8	125	27 in Hg	¼ in	¼ in	1.1	0.3	1.0	—	Gast	86R123-101-N170X	**52DD89**
	1	115V AC	3.1	100/100	25.6 in Hg	¼ in	¼ in	0.78	0.07	0.47	0.16	Thomas	617CA22	**5Z646**
	1	115V AC	4.6	50/60	26.8 in Hg	¼ in	¼ in	1.22	—	0.65	0.23	Thomas	617CA32	**2KFV1**
¼ hp	1	115/230V AC	2.8/1.4	100	27 in Hg	¼ in	¼ in	2.0	0.8	1.0	—	Gast	86R142-P001B-N270X	**52DD90**
	1	115/230V AC	2.6/1.4	100/100	29.5 in Hg	¼ in	¼ in	2.0	0.7	1.1	0.4	Gast	87R135-101-N270X	**36XD63**
	1	115V AC	1.7	100	27.6 in Hg	¼ in	¼ in	1.6	—	1.55	—	Welch	2546B-01	**38XV19**
⅓ hp	1	115V AC	3.6	100/100	27.6 in Hg	¼ in	¼ in	1.6	0.76	0.9	0.33	Thomas	688CE44	**5Z647**
	2	115V AC	3.2	—	29 in Hg	¼ in	¼ in	—	—	0.98	0.48	Thomas	2688VE44	**5Z648**
	2	115V AC	4.7	25/25	27.6 in Hg	¼ in	¼ in	3.15	—	1.6	0.64	Thomas	2688CE44	**5Z350**
	2	115V AC	2.2	—	29.8 in Hg	⅜ in	3⁄16 in	3.5	—	3.4	—	Welch	2581B-50	**38XV17**
	2	115V AC	2.2	—	29.8 in Hg	¼ in	3⁄16 in	2.3	—	2.25	—	Welch	2561B-50	**38XV21**
½ hp	2	115/230V AC	2.3 @ 230/60V AC, 4.4 @ 120/60V AC	—	29 in Hg	¼ in	¼ in	2.7	—	1.5	0.6	Gast	87R555-V101-N470X	**52KA64**
	2	115/230V AC	6.0/3.0	30/30	27.5 in Hg	¼ in	¼ in	4.6	0.88	2.8	1.2	Gast	87R645-101-N470X	**36XD62**
	2	115/230V AC	5.7/2.8	50/125	25 in Hg	¼ in	¼ in	4.2	1.8	2.8	1.0	Gast	87R642-101R-N470X	**36XD64**
¾ hp	1	115V AC	10.6	125/125	25.9 in Hg	¼ in	¼ in	3.78	1.99	1.98	0.7	Thomas	1207PK80	**2KFU9**

3HDJ8

Compressor/Vacuum Maintenance Kits

For Use With	Includes	Brand	Item No.
0211-143-G8CX	Belt Spacer, Gaskets, Vanes	Gast	**3HDJ5**
0523-V191Q-SG588DX	1 Gasket (AK521), 2 Felt Spacers (AK524), 2 O-rings (AK473), 4 Vanes (AH850A)	Gast	**3HDJ6**
107CAB18, 107CDC20, 2FKW6	Diaphragm, Screws, Valve Flappers, Valve Keeper, Valve Plate Gasket	Thomas	**2KFV3**
1423-103Q-G625, 1423-103Q-G626X	Gasket, Gasket Bolt and Filter, O-ring, Vane	Gast	**3HDJ8**
1531-320-G557X	Filter, Gaskets, Vanes	Gast	**3HDJ2**
1HAB-44-M100X, 1HAB-84T-M100X, 1LAA-251-M100X, 2HAH-24-M200X, 2HAH-251-M322, 2LAF-251-M200X	Filter, Gaskets, Head Valves, Rings, Seals	Gast	**3HDK2**
2067-V108, 2567-V108	Bearings, Deflector, Filter/ Mufflers, Gaskets, Vanes	Gast	**3HDJ9**
2107CA20	Diaphragm, Screws, Valve Flappers, Valve Keeper, Valve Plate Gasket	Thomas	**2KFW4**
2CJG9	Bearings, Deflector, Filter/ Mufflers, Gaskets, Vanes	Gast	**3HDK1**
2CJH2, 2CJH3, 4Z460, 4Z707, 5Z676	Filter, Gaskets, Head Valves, Rings, Seals	Gast	**3HDK6**
2Z869, 2Z870, 4Z706, 5KA94, 5KA95, 5Z674, 5Z675	Filter, Gaskets, Head Valves, Rings, Seals	Gast	**3HDK5**
3HBB-251-M322, 3HBB-32-M300X, 3HBB-69T-M300X, 3LBA-251-M300X	Filter, Gaskets, Head Valves, Rings, Seals	Gast	**3HDK3**
4XL33, 5Z348	Diaphragm, Filter, Gasket O-Ring, Screws, Valve Flappers, Valve Keeper	Thomas	**2KFV8**
5KA74, 5KA87, 5KA90	Cup Seal, Filter, Gaskets, Head Valve, O-ring	Gast	**3HDK7**
5KA78	Cups, Cylinders, Leaf Valves, O-rings, Screws	Gast	**3HDL3**
5KA79	Cups, Cylinders, Leaf Valves, O-rings, Screws	Gast	**3HDL4**
5KA81	Vanes and Foam	Gast	**3HDJ4**
5KA85	Gasket, Head, Leaf Valves, Screws, Valve Plate	Gast	**3HDL9**
DOA-P551-KH, DOA-P707-FB	Filter Elements, Gasket, Leaf Valves, O-Ring, Screws	Gast	**3HDL7**
DOA-P707-AA, DOA-P710T-AA, DOA-V751-FB	Filter Elements, Gasket, Leaf Valves, O-Ring, Screws	Gast	**3HDL8**
MOA-P25-JH	Filter Elements, Gasket, Leaf Valves, O-Ring, Screws	Gast	**3HDL6**
ROA-P251-AA	Cup Seal, Filter, Gaskets, Head Valve, O-ring	Gast	**3HDK8**

Lubricated Rotary Vane Vacuum Pumps

Elmo Rietschle
A Gardner Denver Product

- NEMA Premium motors
- Oil sight glass

Single-stage, oil-flooded units are direct driven. Oil-free discharge through large droplet separation followed by oil mist filters. Gas ballast. Also include fine mesh filter, vacuum nonreturn valve, and initial fill of oil.

5KY77

5KY78

Vacuum Pump (HP)	For Use With	H (in.)	Mfr. Model	Item No.
Replacement Filter Elements				
1	Mfr. No. VCB-20	3 ½ in	731399	**36Z457**
1½	Mfr. No. VCE-25	1 ⅝ in	3136586000	**36Z458**
3	Mfr. No. VC-50 and VC-75	4 ⅞ in	474	**36Z459**
5	Mfr. No. VC-100	4 ⅞ in	475	**36Z460**

HP	Phase	Voltage	Amps AC	Displacement	End Vacuum	Max. dBA	NPT Inlet	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Pumps												
1 ½ hp	Single	115/230V AC	15/7.5	13.0 cfm	29.9 in Hg	64	½ in	16.12 in	9.31 in	7.06 in	VCB-20	**5KY77**
	Three	200V AC	5.3	18.0 cfm	29.6 in Hg	59	¾ in	20.37 in	13.12 in	10 in	VCE-25	**36Z454**
	Three	230/460V AC	4.0/2.0	18.0 cfm	29.6 in Hg	59	¾ in	21.25 in	13.12 in	10.06 in	VCE-25	**5KY78**
2 hp	Three	200V AC	6.7	35.0 cfm	29.9 in Hg	67	1 ¼ in	23.81 in	13.25 in	10.5 in	VC-50	**36Z455**
	Three	230/460V AC	6.0/3.0	35.0 cfm	29.9 in Hg	67	1 ¼ in	24.68 in	13.12 in	10.5 in	VC-50	**5KY79**
3 hp	Three	208-230/460V AC	8.8-8.6/4.3	49.0 cfm	29.9 in Hg	68	1 ¼ in	27.68 in	13.12 in	10.5 in	VC-75	**5KY80**
5 hp	Three	200V AC	15.2	71.0 cfm	29.9 in Hg	69	1 ½ in	31.62 in	16 in	11.81 in	VC-100	**36Z456**
	Three	230/460V AC	13.0/6.5	71.0 cfm	29.9 in Hg	69	1 ½ in	31.62 in	16 in	11.81 in	VC-100	**5KY81**

5KY81

Elmo Rietschle
A Gardner Denver Product

WELCH
by Gardner Denver

GAST
A UNIT OF IDEX CORPORATION

Vacuum Pump Oils

Oils meet rigid requirements for vapor pressure, stability, and viscosity. Tested for high vacuum levels. 3HDP8 is specifically formulated for Gast lubricated rotary vane air motors and rotary vane compressors/vacuum pumps. 6D753 is synthetic oil, recommended for corrosive gas applications.

6D736

Description	Container Size	Brand	Mfr. Model	Item No.
Elmo Rietschle VC and VCE Series	1 qt	Elmo Rietschle	75175001	**1ARZ3**
Elmo Rietschle VCB Series	1 qt	Elmo Rietschle	75175010	**2GKG6**
Gast Rotary Vane Air Motors and Rotary Vane Compressor/Vacuum Pumps	1 qt	Gast	KAD220-WW	**3HDP8**
Welch DIRECTORR Direct-Drive	1 qt	Directorr	8995P-11	**6D754**
Welch DUOSEAL® Belt-Drive	1 qt	Duoseal	1407K-11	**6D736**
Welch Gold Vacuum Pump Oil	1 L	Gold	8995G-11	**6D753**

WELCH
by Gardner Denver

Corrosive Environment Vacuum Pumps

- Ultimate pressure Torr 1 x 10-4

2-stage high-vacuum pumps are used for pumping corrosive gases to pressures below 1 Torr (1mm of Hg). Vane springs, valves, pressure tubes, and oil baffle are made of stainless steel. Oil case is PTFE lined. Nitrogen purge helps reduce corrosion. Gas ballast valve inhibits vapor condensation. Low rpm reduces friction wear. Large oil reservoir dilutes contaminants.

6D735

HP	Displacement	Intake Male SAE Flare	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
⅓ hp	0.9 cfm	ISO - NW 16	115V AC	5.6	17.81 in	9 in	12.62 in	1400N-01	**5JMT0**
½ hp	5.6 cfm	ISO - NW 25	115/230V AC	8.6/4.3	19.31 in	14.12 in	15.43 in	1402N-01	**6D735**
1 hp	10.6 cfm	ISO - NW 25	115/230V AC	11.0/5.5	19.31 in	12.31 in	15.62 in	1376N-01	**5JMT1**

3Z654

3Z655

DuoSeal®
Standard High-Vacuum Pumps

- Large oil reservoir
- Continuous duty with thermally protected motors
- Ultimate pressure Torr 1 x 10^{-4}

Low pump rpm (400 to 580 rpm). Pumps operate 20°F cooler than many high-rpm direct-drive pumps. All-metal internal construction and 2-stage rotary valve design.

Contoured molded belt guard and base on 3Z655 and 3Z656 for quieter operation. Gas ballast inhibits condensation inside pump. Factory wired for 115V operation. Intake filter screens. Belt guard, base, motor with On/Off switch, and 3-wire cord. Blue/gray finish. Oil included.

HP	Displacement	Tube Inside Dia.	Voltage	Amps AC	Overall Length	Overall Width	Overall Height	Mfr. Model	Item No.
⅓ hp	0.9 cfm	7⁄16 in	115V AC	5.6	17.75 in	9 in	12.62 in	1400B-01	**3Z654**
½ hp	5.6 cfm	13⁄16 in	115/230V AC	8.4/4.2	20 in	12 in	15.62 in	1402B-01	**3Z655**
1 hp	10.6 cfm	13⁄16 in	115/230V AC	11.0/5.5	19.25 in	14.12 in	15.37 in	1376B-01	**3Z656**
1 hp	17.7 cfm	1 ⅝ in	115/230V AC	11.0/5.5	26 in	13.75 in	18.75 in	1397B-01	**3Z657**

WELCH
by Gardner Denver

ChemStar® Dry Oilless Deep Vacuum Pump

- Chemical duty

Robust dry vacuum pump provides a deep vacuum in extremely harsh chemical applications. Delivers deep vacuum with max. flow of 150 L/min. (9 cfm) at 2 Torr making it ideal for many evaporative processes. Use with freeze dryers, vacuum ovens, and other light industrial applications. 115V, 60 Hz. Inlet/outlet connection: NW 25.

HP	Voltage	Amps AC	End Vacuum	NPT Inlet	Displacement	Mfr. Model	Item No.
½ hp	115V AC	3	0.05 torr	⅜ in	1.2 cfm	2070B-01	**38XV26**

Commercial and Industrial Refrigeration Service Pumps

WELCH by Gardner Denver DuoSeal®

5Z025

Designed for removing air and moisture from industrial and commercial chillers. Vacuum pumps are rated for low-micron Hg vacuum, continuous duty. Pumps include a gas ballast valve that inhibits condensation reducing corrosion, On/Off switch, 3-wire cord, and oil.

DuoSeal® Belt-Drive—All-metal internal construction and low pump rpm provide long service life. Large oil reservoirs dilute contaminants. Come complete with base, belt, belt guard, and motor. 5Z025 also includes carrying handles.

Application	Tonnage	Item No.	Pump Capabilities
Lithium Bromide Absorption Chiller	100 to 500 500 to 1000 1000 to 1500	5Z025 5Z025, 6D731 6D731, 6D733	Handles harsh salt-laden water vapor. Withstands accidental ingestion of salt solution. Recirculates clean fraction of vacuum pump oil.
Cold Storage	10 to 50 50 to 500 500 to 1000	5Z025 5Z025, 6D731 6D733	Handles long pumpdown time effectively. Handles high water vapor loads. Draws a very deep vacuum.
HCFC, CFC or Ammonia Chiller	10 to 50 50 to 500 500 to 1000	5Z025 5Z025, 6D731 6D733	Seals and gaskets won't break down in the presence of R-11, R-12, R-13, R-22, R-113, R-123, R-114, R-502, R-503 or ammonia. Handles high water vapor loads. Draws a very deep vacuum.

HP	Displacement	Ultimate Pressure Torr	Intake Male SAE Flare	Voltage	Amps AC	Overall L	Overall W	Overall H	Mfr. Model	Item No.
Duoseal® Belt-Drive										
½ hp	5.6 cfm	1 x 10-4	¾	115/230V AC	8.4/4.2	20 in	12 in	15 in	1402B-46	**5Z025**
1 hp	10.6 cfm	1 x 10-4	¾	115/230V AC	11/5.5	20 in	14.12 in	15.37 in	1376B-46	**6D731**
	17.7 cfm	1 x 10-4	1½ (F)NPT	115/230V AC	13.4/6/7	26 in	13.75 in	18.75 in	1397B-46	**6D733**

4LCD2

361L34

EXAIR®

Air Knives and Air Knife Kits

- Inlet connection: ¼" (F)NPT
- Max. dBA: 69 at 80 psi
- Working pressure: 80 to 250 psi
- Air slot gap: 0.002"

Kits include filter, pressure regulator, filter/regulator mounting hardware, and shim kit.

ALUMINUM AIR KNIVES

- Max. temp.: 180°F
- 1.75"D x 1.44"H x 3" to 54"W

Quiet, hard-hitting curtain of air can be used for blowoff, cleaning, drying, and cooling applications.

STAINLESS STEEL AIR KNIVES AND KITS

- Max. temp.: 800°F
- 1.44"D

SUPER AIR KNIFE SHIM KITS

Aluminum—Include 1 each of 0.001", 0.003", and 0.004" polyester shims.

Stainless Steel—Include three 0.002" stainless steel shims.

Air Slot Width (in.)	Air Consumption (SCFM)*	No. of Inlets	ALUMINUM AIR KNIFE Item No.	ALUMINUM AIR KNIFE KIT Item No.	ALUMINUM AIR KNIFE - STATIC ELIMINATORS Item No.	STAINLESS STEEL AIR KNIFE Item No.	STAINLESS STEEL AIR KNIFE KIT Item No.
3 in	8.7 scfm	4	**4LCA8**	**4LCA9**	—	**4LCC1**	**4LCC2**
6 in	17.4 scfm	4	**4LCC3**	**4LCC4**	**361L34**	**4LCC5**	**4LCC6**
9 in	26.1 scfm	4	**4LCC7**	**4LCC8**	—	**4LCC9**	**4LCD1**
12 in	34.8 scfm	4	**4LCD2**	**4LCD3**	**361L35**	**4LCD4**	**4LCD5**
18 in	52.2 scfm	4	**4LCD6**	**4LCD7**	**361L36**	**4LCD8**	**4LCD9**
24 in	69.6 scfm	4	**4LCE1**	**4LCE2**	**361L37**	**4LCE3**	**4LCE4**
30 in	87 scfm	4	**4LCE5**	**4LCE6**	**361L38**	**4LCE7**	**4LCE8**
36 in	104.4 scfm	4	**4LCF8**	**4LCF9**	**361L39**	**4LCG1**	**4LCG2**
42 in	121.8 scfm	4	**4LCE9**	**4LCF1**	**361L40**	**4LCF2**	**4LCF3**
48 in	139.2 scfm	5	**4LCF4**	**4LCF5**	**361L41**	**4LCF6**	**4LCF7**
54 in	156 scfm	5	**6JJL5**	**6JJL6**	**361L42**	**6JJL8**	**6JJL9**

*** Calculated at 80 psi.***

For Use With	Item No.	For Use With	Item No.
Aluminum Super Air Knife Shim Kits			
4LCA8	**4LCU4**	4LCE5	**4LCV7**
4LCC3	**4LCU6**	4LCE9	**4LCW2**
4LCC7	**4LCU8**	4LCF4	**4LCW4**
4LCD2	**4LCV1**	4LCF8	**4LCV9**
4LCD6	**4LCV3**	6JJL5	**6JJL7**
4LCE1	**4LCV5**		

For Use With	Item No.	For Use With	Item No.
Stainless Steel Super Air Knife Shim Kits			
4LCC1	**4LCU5**	4LCE7	**4LCV8**
4LCC5	**4LCU7**	4LCF2	**4LCW3**
4LCC9	**4LCU9**	4LCF6	**4LCW5**
4LCD4	**4LCV2**	4LCG1	**4LCW1**
4LCD8	**4LCV4**	6JJL8	**6JJN0**
4LCE3	**4LCV6**		

For Use With	Item No.
Air Knife Mounting System	
6 to 48 In Air Knives	**4LCW6**

Static Eliminating Air Gun, Air Cannon, and Power Supplies

EXAIR®

- Pressure range: 5 to 120 psi

Air gun is for manual operations; air cannon is mountable for stationary applications.

Power Supplies—Include metal case and feature lighted power switch.

- 50/60 Hz
- 5mA max.
- Mounting: flange

48RD61

Air Consumption*	Item No.
Static Eliminating Air Gun	
24 scfm	**48RD62**
Static Eliminating Air Cannon	
18.7 scfm	**48RD61**

*** Calculated at 80 psi.***

No. of Outlets	Input Voltage	Item No.
Power Supply for Static Eliminating Air Guns/Cannons		
2	120/230V AC	**48RD63**

4LCR3

20CL72

EXAIR®

Engineered Air Nozzles

Produce outlet flows 25 times greater than the air they consume.

Description	Item No.
Blowoff Kit	
Includes Air Nozzle, Ball Valve, Magnetic Base, Stay Set Hose	**20CL72**

Air Consumption*	Max. dBA*	Inlet Size	L	ZINC/ ALUMINUM Item No.	STAINLESS STEEL Item No.	PEEK THERMOPLASTIC Item No.
Clusters						
56 scfm	82	⅜ in FNPT	2 9⁄16 in	**36JP41**	—	—
98 scfm	85	½ in FNPT	2 ¾ in	**36JP42**	—	—
168 scfm	89	1 in FNPT	2 15⁄16 in	**36JP43**	—	—
Flat, Safety						
10.5 scfm	75	⅛ in FNPT	1 5⁄16 in	**20CL70**	**20CL71**	—
22 scfm	77	¼ in FNPT	2 1⁄16 in	**4LCT3**	—	—
	77	¼ in FNPT	2 3/50 in	—	**4LCT4**	—
High Power Safety						
35 scfm	82	⅜ in FNPT	1 ⅝ in	**4LCT5**	**4LCT6**	**20CL69**
	82	⅜ in MNPT	2 ¼ in	**4LCT7**	**4LCT8**	—
60 scfm	87	½ in FNPT	2 in	**4LCT9**	**4LCU1**	—
	87	½ in MNPT	2 ¾ in	**4LCU2**	**4LCU3**	—
Safety						
2.5 scfm	58	M4 x ½ in	½ in	—	**15J053**	**38W842**
	58	⅛ in MNPT	⅞ in	—	**15J054**	**38W843**
4.9 scfm	68	M5 x ½ in	⅝ in	—	**15J055**	**38W844**
	68	⅛ in MNPT	1 in	—	**15J056**	**38W845**
8.3 scfm	75	M6 x ¾ in	7/9 in	—	**15J057**	**15J059**
	75	⅛ in MNPT	1 1⁄16 in	—	**15J058**	**38W846**
10 scfm	71	⅛ in FNPT	1 ⅕ in	**4LCR4**	**4LCR5**	**6JJN6**
	71	⅛ in MNPT	1 ⅔ in	**4LCR6**	**4LCR7**	—
13 scfm	80	⅛ in MNPT	1 ⅕ in	—	**4LCR3**	—
14 scfm	74	¼ in FNPT	1 ¾ in	**4LCR8**	**4LCR9**	**6JJN5**
	74	¼ in MNPT	2 ⅜ in	**4LCT1**	**4LCT2**	—

*** Calculated at 80 psi.***

EXAIR®

Air Amplifiers and Air Amplifier Kits

4NUW9

4LCX3

- Pressure range: 5 to 120 psi
- Temp. rating: 275°F for aluminum; 400°F for stainless steel

Compact, lightweight, and portable amplifiers run on compressed air so electricity is not required. Both the vacuum and discharge ends can be ducted, making them excellent for drawing fresh air from another location or moving smoke and fumes away. High-efficiency amplifiers feature an exact air gap; adjustable amplifiers can be adjusted up to 0.010" at 80 psi. Kits include shim set, filter separator, pressure regulator, and filter/regulator mounting hardware.

						ALUMINUM		STAINLESS STEEL	
CFM @ 80 psi	Amplification Ratio	Air Output Volume CFM @ 80 psi	Air Inlet	Inside Dia.	Max. dBA	Air Amplifier Item No.	Air Amplifier Kit Item No.	Air Amplifier Item No.	Air Amplifier Kit Item No.
Adjustable									
8.9 cfm	10	267 cfm	⅛ in NPT	0.45 in	78 dBA	**4LCX7**	**4LCX8**	**4LCX9**	**4LCY1**
12.9 cfm	16	618 cfm	¼ in NPT	0.84 in	81 dBA	**4LCY2**	**4LCY3**	**4LCY4**	**4NUW8**
21.5 cfm	20	1,290 cfm	⅜ in NPT	1.64 in	82 dBA	**4NUW9**	**4NUX1**	**4NUX2**	**4NUX3**
35.2 cfm	22	2,323 cfm	½ in NPT	2.2 in	83 dBA	**15J062**	**15J063**	**15J066**	**15J067**
50 cfm	24	3,600 cfm	½ in NPT	3.02 in	84 dBA	**15J064**	**15J065**	**15J068**	**15J069**
High-Efficiency									
6.1 cfm	12	219 cfm	⅛ in NPT	0.45 in	69 dBA	**4LCX1**	**4LCX2**	—	—
8.1 cfm	18	436 cfm	¼ in NPT	0.84 in	72 dBA	**4LCX3**	**4LCX4**	—	—
15.5 cfm	22	1,023 cfm	⅜ in NPT	1.64 in	72 dBA	**4LCX5**	**4LCX6**	—	—
29.2 cfm	25	2,190 cfm	½ in NPT	3.02 in	73 dBA	**15J060**	**15J061**	—	—

EXAIR®

Air Conveyors and Air Conveyor Kits

4LCN9

- Pressure range: 20 to 250 psi
- Temp. rating: 275°F for aluminum; 400°F for stainless steel and hardened steel alloy

Connect conveyors to common hose or duct to move large volumes of material over long distances with a small amount of compressed air. Kits include mounting bracket, filter separator, pressure regulator, and filter/regulator mounting hardware. Pressure regulator makes it easy to control the material flow rate. Ideal for bulk material and scrap.

Hardened Steel Alloy—Heavy-duty conveyors can move more material over longer lengths. Hardened steel alloy won't wear prematurely and can withstand abrasive material applications.

				ALUMINUM		STAINLESS STEEL	
Hose Size	Air Consumption*	Vacuum	Air Inlet	Vacuum Conveyor Item No.	Vacuum Conveyor Kit Item No.	Vacuum Conveyor Item No.	Vacuum Conveyor Kit Item No.
¾"	10.7 scfm	-72 in wc	¼" NPT	**4LCN1**	**4LCN2**	**4LCP2**	**4LCP3**
1"	14.7 scfm	-42 in wc	¼" NPT	**4LCN3**	**4LCN4**	**4LCP4**	**4LCP5**
1¼"	25.9 scfm	-42 in wc	¼" NPT	**4LCN5**	**4LCN6**	**4LCP6**	**4LCP7**
1½"	33 scfm	-36.8 in wc	⅜" NPT	**4LCN7**	**4LCN8**	**4LCP8**	**4LCP9**
2"	45 scfm	-28.5 in wc	⅜" NPT	**4LCN9**	**4LCP1**	**4LCR1**	**4LCR2**

				HARDENED STEEL ALLOY	
Hose Size	Air Consumption*	Vacuum	Air Inlet	Vacuum Conveyor Item No.	Vacuum Conveyor Kit Item No.
¾"	26 scfm	-144 in wc	¼" NPT	**6KHL2**	**6KHL3**
1"	35 scfm	-105 in wc	¼" NPT	**6KHL4**	**6KHL5**
1¼"	49 scfm	-83 in wc	¼" NPT	**6KHL6**	**6KHL7**
1½"	55 scfm	-60 in wc	⅜" NPT	**6KHL8**	**6KHL9**
2"	75 scfm	-42 in wc	⅜" NPT	**6KHN0**	**6KHN1**

** Calculated at 80 psi.*

EXAIR®

Enclosure Coolers

- Pressure range: 80 to 120 psi
- Temp. rating: 125°F

Convert compressed air into cold air to keep enclosure from overheating. Units include thermostat, solenoid valve, filter, and cold air distribution kit. Side-mount kits are for use where space is limited on the top or sides of enclosure.

For Use With Grainger Item Number	Item No.
Side-Mount Lug Kits	
4LCK7	**20CL88**
4LCL1, 4LCL4, 4LCL7	**20CL89**
4LCK8, 4LCK9	**20CL90**
4LCL2, 4LCL3, 4LCL5, 4LCL6, 4LCL8, 4LCL9	**20CL91**

4LCL7

		ALUMINUM NEMA 4			STAINLESS STEEL NEMA 4X			ALUMINUM, STAINLESS STEEL KIT NEMA 12		
CFM @ 100 psi	BtuH @ 100 psi	Max. dBA	Air Inlet	Item No.	Max. dBA	Air Inlet	Item No.	Max. dBA	Air Inlet	Item No.
8 cfm	550 BtuH	67 dBA	⅛ in (F)NPT	**4LCK8**	67 dBA	⅛ in (F)NPT	**4LCK9**	67 dBA	⅛ in (M)NPT	**4LCK7**
15 cfm	1,000 BtuH	73 dBA	¼ in (F)NPT	**4LCL2**	73 dBA	¼ in (F)NPT	**4LCL3**	73 dBA	¼ in (M)NPT	**4LCL1**
30 cfm	2,000 BtuH	80 dBA	¼ in (F)NPT	**4LCL5**	80 dBA	¼ in (F)NPT	**4LCL6**	74 dBA	¼ in (M)NPT	**4LCL4**
35 cfm	2,500 BtuH	82 dBA	¼ in (F)NPT	**4LCL8**	82 dBA	¼ in (F)NPT	**4LCL9**	78 dBA	¼ in (M)NPT	**4LCL7**

4LCJ3

EXAIR®

Cold Gun Coolant Systems

- Inlet connection: ¼" (M)NPT, except Mini Cold Guns are ⅛" (M)NPT
- Pressure range: 80 to 120 psi
- Temp. drop: 50°F at 100 psi
- Aluminum/stainless steel body material

Improve dry machining and prolong tool life. Systems include cone and fan nozzles. Mini Cold guns produce at 550 BtuH, Cold guns at 1000 Btu, and High-Power guns at 2000 BtuH.

			SINGLE HOSE	DUAL HOSE
Description	Air Consumption*	Max. dBA*	Item No.	Item No.
Mini Cold Gun	8 scfm	76 dBA	**38W847**	**38W848**
Cold Gun	15 scfm	70 dBA	**4LCJ1**	**4LCJ2**
High-Power Cold Gun	30 scfm	82 dBA	**4LCJ3**	**4LCJ4**

** Calculated at 80 psi.*

EXAIR®

Vortex Tube Spot Coolers

4LCK6

- Pressure range: 80 to 120 psi
- 303 stainless steel

Cool compressed air supply to -50°F. Cooling kits include muffler, hose, and generators.

cfm @ 100 psi	Differential Range	BtuH @ 100 psi	Air Inlet	Item No.
Vortex Tubes				
8 cfm	28° to 129°F	550 BtuH	⅛ in (M)NPT	**4LCK2**
15 cfm	28° to 129°F	1,000 BtuH	¼ in (M)NPT	**4LCK3**
25 cfm	28° to 129°F	1,700 BtuH	¼ in (M)NPT	**4LCK4**
30 cfm	28° to 129°F	2,000 BtuH	¼ in (M)NPT	**4LCK5**
40 cfm	28° to 129°F	2,800 BtuH	¼ in (M)NPT	**4LCK6**
Vortex Tube Cooling Kits				
2 to 8	28° to 129°F	135 to 550	⅛ in (M)NPT	**4LCK1**
10 to 40	28° to 129°F	650 to 2800	¼ in (M)NPT	**4LCJ9**

5Z649

53WC07

FUJI

Regenerative Blowers

Industrial-duty, oilless air blowers can be used for pressure or vacuum. Flow without pulsation at low noise levels and are dynamically balanced to eliminate vibration. Equipped with continuous duty TEFC motors, aluminum alloy impeller, mounting base, and housing. Use as original equipment or for upgraded performance. Pneumatic air tube conveying systems, vacuum cleaning systems, vacuum lifting, vacuum hold down, vacuum transport, bottle filling stations, printing presses, screen printing, air cushion tables, drying systems, weld fume extraction, textile machinery, dental equipment, waste and water fish pond aeration, aquarium aeration, aeration plating tanks, and air knife systems. For use with air and noncombustible, noncorrosive, nonexplosive gases.

Note: A vacuum or pressure relief valve (sold separately) is required for proper operation.

Performance ratings shown are rated with motor running at 60 Hz. If 50 Hz is used, deduct ⅙ from rating. Min. cfm ratings are at continuous flow. Relief valves are mandatory for flow conditions that are under min. or less.

Conversions: to psi = (in. of water x 0.036); to in. Hg = (in. of water x 0.074).

High-Pressure Turbo Blowers—Cast-aluminum blower housings and enclosed impellers provide higher pressure capabilities than centrifugal blowers.

Rebuild Kits—Contain all the essential parts needed for routine maintenance: silencer assembly, bearing shims, bearings, and shaft seal.

For Use With	Item No.
Rebuild Kits	
4Z750, 5F242	**3DUU8**
5Z187, 5Z649	**3DUU9**
4Z751, 4Z752	**3DUV1**
4Z753, 5Z650	**3DUV2**
5JEP4, 5Z188	**3DUV3**
5JEP5, 5Z651	**3DUV4**
5JEP6, 5Z189	**3DUV5**
5F243, 5JEP7	**3DUV6**

HP	Max. Pressure	Max. Flow Rate	Max. Vacuum	Voltage†	Full Load Amps	Inlet Size	Outlet Size	Mfr. Model	Item No.	Required Relief Valve for Vacuum Mfr. Model	Required Relief Valve for Vacuum Item No.	Required Relief Valve for Pressure Mfr. Model	Required Relief Valve for Pressure Item No.
Single-Stage, 1-Phase													
0.11 hp	19.5 in WC	19.5 cfm	18.7 in WC	115/230V AC	1.2/0.6	1 ¼ in	1 ¼ in	VFC080P-5T	**4Z749**	—	—	—	—
0.17 hp	27.5 in WC	27 cfm	26 in WC	115/230V AC	1.5/.75	1 in	1 in	VFC100P-5T	**5JEN9**	—	—	—	—
0.37 hp	34 in WC	42 cfm	33 in WC	115/230V AC	3.6/1.8	1 in	1 in	VFC200P-5T	**4Z750**	—	—	—	—
0.51 hp	50 in WC	56 cfm	45 in WC	115/230V AC	5.0/2.5	1 ¼ in	1 ¼ in	VFC300P-5T	**5Z187**	—	—	PV3	**5Z577**
1.0 hp	54.5 in WC	98 cfm	50 in WC	115/230V AC	8.6/4.3	1 ½ in	1 ½ in	VFC400P-5T	**4Z751**	VV4	**5Z574**	PV4	**5Z578**
2.5 hp	80 in WC	154 cfm	70 in WC	200-230V AC	11	1 ½ in	1 ½ in	VFC508P-2T	**5Z650**	VV5	**5Z575**	PV5	**5Z579**
Single-Stage, 3-Phase													
0.17 hp	26.5 in WC	27 cfm	26 in WC	200-230/460V AC	0.53/0.26	1 in	1 in	VFC100A-7W	**5JEP0**	—	—	—	—
0.33 hp	37 in WC	42 cfm	34 in WC	200-230/460V AC	1.2/0.6	1 in	1 in	VFC200A-7W	**5F242**	—	—	—	—
0.5 hp	50 in WC	56 cfm	45 in WC	575V AC	0.75	1 ¼ in	1 ¼ in	VFC300A-5W	**5JEP1**	—	—	PV3	**5Z577**
0.56 hp	50 in WC	56 cfm	45 in WC	200-230/460V AC	1.7/.85	1 ¼ in	1 ¼ in	VFC300A-7W	**5Z649**	—	—	PV3	**5Z577**
1.4 hp	58 in WC	89 cfm	50 in WC	230/460V AC	3.8/1.8	1 ½ in	1 ½ in	VFZ401A-7W	**53WC07**	VV4	**5Z574**	PV4	**5Z578**
1.4 hp	58 in WC	89 cfm	50 in WC	575V AC	1.4	1 ½ in	1 ½ in	VFZ401A-5W	**53WC08**	VV4	**5Z574**	PV4	**5Z578**
2.7 hp	80 in WC	135 cfm	80 in WC	230/460V AC	7.8/3.7	1 ½ in	1 ½ in	VFZ501A-7W	**53WC09**	—	—	—	—
2.7 hp	80 in WC	135 cfm	80 in WC	575V AC	3.0	1 ½ in	1 ½ in	VFZ501A-5W	**53WC10**	—	—	—	—
5 hp	134 in WC	173 cfm	96 in WC	230/460V AC	13.2/6.1	2 in	2 in	VFZ601A-7W	**53WC11**	VV0662	**12F714**	—	—
5 hp	134 in WC	173 cfm	96 in WC	575V AC	4.9	2 in	2 in	VFZ601A-5W	**53WC12**	VV0662	**12F714**	—	—
6.7 hp	85 in WC	217 cfm	9.7 in WC	575V AC	6.5	2 in	2 in	VFZ701A-5W	**53WC14**	VV7	**5Z652**	PV7	**5Z654**
6.7 hp	105 in WC	217 cfm	98 in WC	230/460V AC	17.6/8.1	2 in	2 in	VFZ701A-7W	**53WC13**	VV7	**5Z652**	PV7	**5Z654**
10.7 hp	115 in WC	379 cfm	105 in WC	230/460V AC	27.8/12.6	2 in	2 ½ in	VFZ801A-7W	**53WC15**	VV8	**5Z653**	PV8	**5Z655**
10.7 hp	115 in WC	379 cfm	105 in WC	575V AC	10.1	2 in	2 ½ in	VFZ801A-5W	**53WC16**	VV8	**5Z653**	PV8	**5Z655**
14.7 hp	100 in WC	574 cfm	80 in WC	230/460V AC	39.1/18.9	3 in	3 in	VFZ901A-7W	**53WC17**	VV8	**5Z653**	PV8	**5Z655**
14.7 hp	100 in WC	574 cfm	80 in WC	575V AC	15.2	3 in	3 in	VFZ901A-5W	**53WC18**	VV8	**5Z653**	PV8	**5Z655**
Single Stage, 3-Phase, High-Pressure Turbo Blowers													
1.2 hp	11 in WC	750 cfm	6.9 in WC	230V AC	9.3	4 in	4 in	RD6-L	**39UV94**	VRV305	**38UW92**	—	—
1.2 hp	11 in WC	750 cfm	6.9 in WC	460V AC	4.75	4 in	4 in	RD6-H	**39UV93**	—	—	—	—
2-Stage, 1-Phase													
1.2 hp	125 in WC	56 cfm	110 in WC	115/230V AC	14.2-12/7.2-6	1 in	1 in	2VFB30-1.2-5T	**38UW85**	—	—	PRV305	**38UW86**
2-Stage, 3-Phase													
1.2 hp	125 in WC	56 cfm	110 in WC	230/460V AC	3.9-3.68/2.2-2.12	1 in	1 in	2VFB30-1.2-7W	**38UW84**	VRV307	**38UW93**	PRV307	**38UW87**
3.42 hp	169 in WC	106 cfm	140 in WC	230/460V AC	10.4-9.4/5.85-5.52	1 ½ in	1 ½ in	2VFB40-3.42-7W	**38UW83**	VRV40	**38UW94**	PRV40	**38UW88**
6.16 hp	192 in WC	159 cfm	160 in WC	230/460V AC	16.1-15.7/9.3-9.1	2 in	2 in	2VFB50-6.16-7W	**38UW82**	VRV50	**38UW95**	PRV50	**38UW89**
7.4 hp	200 in WC	222 cfm	185 in WC	230/460V AC	26.1-21.1/13.8-12.1	2 in	2 in	2VFB60-8.4-7W	**38UW81**	VRV608	**38UW96**	PRV608	**38UW90**
11.5 hp	265 in WC	222 cfm	215 in WC	230/460V AC	30-24.4/16-14.1	2 in	2 in	2VFB60-11.5-7W	**38UW80**	VRV6011	**38UW97**	PRV6011	**38UW91**

† Voltage range at 50 Hz. 1-phase 110 or 110/120V. 3-phase 190-230/380-460V.

5F245

FUJI

Inlet Filters with Replaceable Covers

Filters have perforated outer cylinders; inner cylinder is wrapped with fine 0.009" mesh screen. Replaceable filter covers are made of ⅞"-thick, 100% polyester filter media. They provide 80% efficiency to 5 microns and are for use with Fuji, Gast, Rotron, Siemens, and Spencer regenerative blowers.

For Use with Blower Nos.	Inlet Filter with Cover Mfr. Model	Inlet Filter with Cover Item No.	Replacement Filter Cover Mfr. Model	Replacement Filter Cover Item No.
VFC100A-7W, VFC100P-5T, VFC200A-7W, VFC200P-5T, VFC300A-7W, VFC300P-5T, VFD2S, VFD3S	F-123	**5Z581**	C-123	**5Z584**
VFC400A-5W, VFC400A-7W, VFC400P-5T, VFC500A-5W, VFC500A-7W, VFC508P-2T, VFD4, VFD41, VFD41S, VFD42, VFD42S	F-45	**5Z582**	C-45	**5Z585**
VFC600A-5W, VFC600A-7W, VFC700A-5W, VFC700A-7W, VFD5, VFD5D, VFD6	F-67	**5Z583**	C-67	**5Z586**
VFC800A-5W, VFC800A-7W, VFC904A-5W, VFC904A-7W, VFD6D, VFD8, VFD9	F-89	**5F244**	C-89	**5F245**

SPEEDAIRE®

Positive Displacement Blowers and Vacuum Pumps

Drop-in replacements for various roots-type blowers and vacuum pumps. Used in various industrial applications such as pneumatic conveying, wastewater treatment, surface cleaning, and dairy milking. Handle continuous loads. Alloy steel timing gears assure nonslip timing. High-strength drive shaft provides greater blower durability and installation flexibility. High-strength cylinder with heat-dissipating fins for reduced noise and vibration. High-temperature seals provide leak-free operation in severe-duty applications. Blowers are available in horizontal and vertical configurations.

2EPP4

2EPP7

2EPU8

Inlet Dia.	Outlet Dia.	Displacement	Max. Pressure	Max. Vacuum	RPM Range	CFM Range	HP Req.	Shaft Dia.	Overall Width	Overall Height	Overall Depth	Item No.
Horizontal Right Hand Positive Displacement Blowers												
1 in (F)NPT	1 in (F)NPT	0.2 cu in/rev	12 psi	15.0 in Hg	1389 to 5275	22 to 73	0.8 to 5.1	0.625 in	10 in	7 in	9.25 in	**2EPN9**
1.25 in (F)NPT	1.25 in (F)NPT	0.54 cu in/rev	15 psi	16.0 in Hg	1091 to 3600	40 to 138	1.1 to 11.5	0.75 in	11.56 in	8.87 in	11.25 in	**2EPP8**
1.5 in (F)NPT	1.5 in (F)NPT	0.82 cu in/rev	15 psi	16.0 in Hg	955 to 3600	72 to 218	1.7 to 17.7	0.875 in	13.92 in	10.43 in	12.37 in	**2EPR5**
2 in (F)NPT	2 in (F)NPT	0.42 cu in/rev	7 psi	14.0 in Hg	1389 to 5275	55 to 168	0.7 to 6.1	0.625 in	12 in	7 in	9.25 in	**2EPP2**
	2 in (F)NPT	0.72 cu in/rev	12 psi	15.0 in Hg	1091 to 3600	57 to 186	1.6 to 12.3	0.75 in	12.44 in	8.87 in	11.25 in	**2EPP4**
2.5 in (F)NPT	2.5 in (F)NPT	1.24 cu in/rev	7 psi	14.0 in Hg	1091 to 3600	108 to 350	1.1 to 12.4	0.75 in	15.06 in	8.87 in	11.25 in	**2EPP6**
	2.5 in (F)NPT	1.4 cu in/rev	10 psi	16.0 in Hg	955 to 3600	132 to 376	3.0 to 20	0.875 in	16.17 in	10.43 in	12.37 in	**2EPR1**
	2.5 in (F)NPT	1.68 cu in/rev	15 psi	16.0 in Hg	764 to 2850	134 to 359	2.9 to 28.4	1.125 in	16.38 in	11.94 in	15.37 in	**2EPT2**
3 in (F)NPT	3 in (F)NPT	2.04 cu in/rev	7 psi	14.0 in Hg	955 to 3600	197 to 579	1.6 to 20.3	0.875 in	18.67 in	10.43 in	12.37 in	**2EPR3**
	3 in (F)NPT	2.72 cu in/rev	15 psi	16.0 in Hg	637 to 2350	152 to 477	3.7 to 37.9	1.375 in	18.61 in	14.75 in	18 in	**2EPT8**
4 in (F)NPT	4 in (F)NPT	2.52 cu in/rev	13 psi	16.0 in Hg	764 to 2850	209 to 542	4.5 to 36.9	1.125 in	18.38 in	11.94 in	15.37 in	**2EPR7**
	4 in (F)NPT	4.2 cu in/rev	7 psi	14.0 in Hg	764 to 2850	388 to 953	2.6 to 33.1	1.125 in	22.38 in	11.94 in	15.37 in	**2EPR9**
	4 in (F)NPT	4.4 cu in/rev	15 psi	16.0 in Hg	546 to 2050	278 to 682	6 to 53.5	1.562 in	21.12 in	20.68 in	22 in	**2EPU5**
5 in (F)NPT	5 in (F)NPT	4.59 cu in/rev	14 psi	16.0 in Hg	637 to 2350	267 to 815	6.3 to 59.7	1.375 in	21.86 in	14.93 in	18 in	**2EPT4**
6 in Flange Mount	6 in Flange Mount	8.61 cu in/rev	7 psi	14.0 in Hg	637 to 2350	615 to 1614	4.1 to 56	1.375 in	28.75 in	16.25 in	18.11 in	**2EPT6**
	6 in Flange Mount	8.79 cu in/rev	10 psi	16.0 in Hg	546 to 2050	601 to 1383	12 to 71.2	1.562 in	26.62 in	19.5 in	22 in	**2EPU1**
8 in Flange Mount	8 in Flange Mount	14.04 cu in/rev	6 psi	12.0 in Hg	546 to 2050	1121 to 2368	6.5 to 70	1.562 in	33.62 in	19.5 in	22 in	**2EPU3**
Vertical Bottom Hand Positive Displacement Blowers												
1 in (F)NPT	1 in (F)NPT	0.2 cu in/rev	12 psi	15.0 in Hg	1945 to 5275	22 to 73	0.8 to 5.1	0.625 in	10 in	9.5 in	6.5 in	**2EPP1**
1.25 in (F)NPT	1.25 in (F)NPT	0.54 cu in/rev	15 psi	16.0 in Hg	1528 to 3600	40 to 138	1.1 to 11.5	0.75 in	11.56 in	12.37 in	7.75 in	**2EPP9**
1.5 in (F)NPT	1.5 in (F)NPT	0.82 cu in/rev	15 psi	16.0 in Hg	1337 to 3600	72 to 218	1.7 to 17.7	0.875 in	13.92 in	12.68 in	8.37 in	**2EPR6**
2 in (F)NPT	2 in (F)NPT	0.42 cu in/rev	7 psi	14.0 in Hg	1945 to 5275	55 to 168	0.7 to 6.1	0.625 in	12 in	9.5 in	6.5 in	**2EPP3**
	2 in (F)NPT	0.72 cu in/rev	12 psi	15.0 in Hg	1528 to 3600	57 to 186	1.6 to 12.3	0.75 in	12.44 in	12.37 in	7.75 in	**2EPP5**
2.5 in (F)NPT	2.5 in (F)NPT	1.24 cu in/rev	7 psi	14.0 in Hg	1528 to 3600	108 to 350	1.1 to 12.4	0.75 in	15.06 in	12.37 in	7.75 in	**2EPP7**
	2.5 in (F)NPT	1.4 cu in/rev	10 psi	16.0 in Hg	1337 to 3600	132 to 376	3.0 to 20	0.875 in	16.17 in	12.68 in	8.37 in	**2EPR2**
	2.5 in (F)NPT	1.68 cu in/rev	15 psi	16.0 in Hg	1070 to 2850	134 to 359	2.9 to 28.4	1.125 in	16.38 in	16.6 in	10.37 in	**2EPT3**
3 in (F)NPT	3 in (F)NPT	2.04 cu in/rev	7 psi	14.0 in Hg	1337 to 3600	197 to 579	1.6 to 20.3	0.875 in	18.67 in	12.68 in	8.37 in	**2EPR4**
	3 in (F)NPT	2.72 cu in/rev	15 psi	16.0 in Hg	891 to 2350	152 to 477	3.7 to 37.9	1.375 in	18.61 in	20.75 in	12 in	**2EPT9**
4 in (F)NPT	4 in (F)NPT	2.52 cu in/rev	13 psi	16.0 in Hg	1070 to 2850	209 to 542	4.5 to 36.9	1.125 in	18.38 in	16.6 in	10.37 in	**2EPR8**
	4 in (F)NPT	4.2 cu in/rev	7 psi	14.0 in Hg	1070 to 2850	388 to 953	2.6 to 33.1	1.125 in	22.38 in	16.6 in	10.37 in	**2EPT1**
	4 in (F)NPT	4.4 cu in/rev	15 psi	16.0 in Hg	764 to 2050	278 to 682	6 to 53.5	1.562 in	21.12 in	25.5 in	19.37 in	**2EPU6**
5 in (F)NPT	5 in (F)NPT	4.59 cu in/rev	14 psi	16.0 in Hg	891 to 2350	267 to 815	6.3 to 59.7	1.375 in	21.86 in	20.75 in	12.37 in	**2EPT5**
6 in Flange Mount	6 in Flange Mount	8.61 cu in/rev	7 psi	14.0 in Hg	891 to 2350	615 to 1614	4.1 to 56	1.375 in	28.86 in	20.75 in	15 in	**2EPT7**
	6 in Flange Mount	8.79 cu in/rev	10 psi	16.0 in Hg	764 to 2050	601 to 1383	12 to 71.2	1.562 in	26.62 in	25.5 in	17 in	**2EPU2**
8 in Flange Mount	8 in Flange Mount	14.04 cu in/rev	6 psi	12.0 in Hg	764 to 2050	1121 to 2368	6.5 to 70	1.562 in	33.62 in	25.5 in	17 in	**2EPU4**

Container Size	ISO Viscosity Grade	Viscosity @ 40C	Viscosity @ 100C	PKG. QTY. 1 Item No.	PKG. QTY. 12 Item No.
Synthetic Lubricants					
1 qt	220	213.7 cSt	22.2 cSt	**2EPU7**	**2EPU8**

Container Size	NLGI Grade	Temp. Range	Dropping Point	Base	Pkg. Qty.	Item No.
Grease						
14.1 oz	2	Up to 163°C	475 °F	Synthetic Lithium Complex	10	**2EPU9**

30J550

SMC.

Vacuum Regulators

- Pressure range: -100 to -1.3kPa
- Temp. range: 5° to 60°C

Include bracket and gauge.

Max. Flow Rate	Port Size	Item No.
140 lpm	¼ in	**30J548**
240 lpm	5⁄16 in	**30J549**
240 lpm	⅜ in	**30J550**

30J545

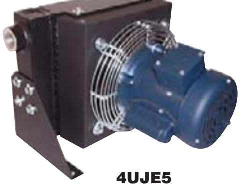
SMC.

Water Separators

- Pressure range: -100 to 1000kPa
- Temp. range: 5° to 60°C

Include drain cock and water element.

Max. Flow	Port Size	Mfr. Model	Item No.	FILTER ELEMENTS Item No.
200 lpm	¼ in	AMJ3000-N02B	**30J543**	**36LU36**
	⅜ in	AMJ3000-N03B	**30J544**	**36LU36**
300 lpm	½ in	AMJ4000-N04B	**30J545**	**36LU37**
500 lpm	¾ in	AMJ5000-N06B	**30J546**	**36LU38**
	1 in	AMJ5000-N10B	**30J547**	**36LU38**



4UJE5

Air-Cooled Aftercoolers

AKG®

- Aluminum bar/plate material
- Max. pressure: 250 psi
- Mounting legs included

Remove harmful water, oil, and contaminants from compressed air systems. Compatible with most rotary and piston air compressors. Hollow profile reduces local peak strains, which significantly increases cooler service life. Internal and external fins optimize cooling power.

Max. Compressor	Max. Flow CFM @ 100 psi*	NPT Inlet/ Outlet Air	Max. Temp.	Fan HP	Voltage	Max. Amps	W	H	D	Item No.
20	113 cfm	1 in	350 °F	⅓	115/230V AC	5.2/2.6 A	15.94 in	12.64 in	14.72 in	**4UJE4**
40	245 cfm	1 ½ in	350 °F	½	115/230V AC	7/3.5 A	19.88 in	16.3 in	15.59 in	**4UJE5**
75	539 cfm	2 in	350 °F	½	115/230V AC	8/4 A	26.38 in	21.0 in	17.75 in	**4UJE6**
125	785 cfm	2 in	350 °F	1	115/230V AC	12.8/6.4 A	30.31 in	23.19 in	18.74 in	**4UJE7**
200	1,569 cfm	2 ½ in	350 °F	2	230/460V AC	6.2/3.1 A	37.0 in	27.72 in	22.6 in	**4UJE8**
350	2,300	3 in	350 °F	5	230/460V AC	13.2/6.6 A	40.94 in	35.9 in	24.76 in	**4UJE9**
500	3,016	4 in	350 °F	7 ½	230/460V AC	19.6/9.8 A	42.91 in	37.44 in	29.84 in	**4UJF1**
700	4,316	4 in	350 °F	7 ½	230/460V AC	19.6/9.8 A	48.82 in	44.25 in	30.28 in	**4UJF2**
1,000	4,800	4 in	350 °F	10	230/460V AC	26/13 A	52.76 in	57.87 in	33.82 in	**4UJF3**

** Based on 15°F approach with 250°F inlet temp. and less than a 4 psi pressure drop.*

4JME5

Flexible Rubber Hose

Parker

- Max. working pressure: 232 psi
- Temp. range: -4° to 140°F

Black hose has polyamide coupling material, synthetic braided reinforcement, and can be used with push-to-connect reusable fittings, sold separately on this page.

Fitting Size	L	Outside Dia.	For Use With	Mfr. Model	Item No.
1 in x 1 in	16"	38mm	25mm Aluminum Tubing	1001E25 00 01	**4JMG6**
1½ in x 1½ in	3 ft. 3"	54mm	40mm Aluminum Tubing	1001E40 00 02	**4JME5**

Pipe Clip
4JMG4

Chamfer Tool
4JML5

Marking Tool
4JML7

Aluminum Tubing Accessories

Parker

Drilling Jig 48GF49 contains a drilling jig for 25mm and 40mm pipe. Used as a drilling guide for holes for the drop brackets.

Description	For Tubing O.D.	Thread Size	Material	Color	Mfr. Model	Item No.
Pipe Clip	16.5 mm	¼ in	Polyamide	Black	6697 17 01	**4JMK8**
	25 mm	¼ in	Polyamide	Black	6697 25 01	**4JMJ6**
	40 mm	¼ in	Polyamide	Black	6697 40 01	**4JMG4**
Threaded Rod Adapter	16.5 mm, 25 mm, 40 mm	⅜ in x ¼ in	Brass	Brass	0169 00 05 00	**4JMK9**
Drilling Jig	22 mm, 64 mm	—	Brass	Blue	6698 01 03	**48GF49**
Drill Bit	25 mm	—	Steel	Silver	6698 02 02	**4JML3**
	40 mm	—	Steel	Silver	6698 02 01	**4JML2**
Pipe Cutter	16.5 mm, 25 mm, 40 mm	—	Steel	Blue	6698 03 01	**4JML4**
Chamfer Tool	16.5 mm, 25 mm, 40 mm	—	Plastic	Red	6698 04 01	**4JML5**
Deburring Tool	16.5 mm, 25 mm, 40 mm	—	Steel	Blue	6698 04 02	**4JML6**
Marking Tool	16.5 mm, 25 mm, 40 mm	—	Plastic	Blue	6698 04 03	**4JML7**
Tool Kit and Case, (2) Drill Bits, Chamfer Tool, Deburring Tool, Drilling Jig, Marking Tool, Pipe Cutter, Spanner Wrenches					6698 00 05	**48GF48**

90° Elbow
4JMJ9

Threaded Adapter
4JMF3

In-Line Reducer
4JMG2

Drop Bracket
4JMF6

End Cap
4JMH6

Union Connector
4JMH4

Parker

Aluminum Tubing Fittings

Push-to-connect fittings are reusable and create instant connections; no need to thread, solder, or glue pipe.

Note: Additional sizes available on Grainger.com

Description	For Tubing O.D. 1	For Tubing O.D. 2	Fitting Size (NPT)	Material	Item No.
Ball Valves					
Ball Valve	16.5 mm	—	½ in	Treated Brass/Polyamide	**49K672**
	25 mm	—	½ in	Treated Brass/Polyamide	**49K673**
	25 mm	—	½ in	Treated Brass/Polyamide	**49K681**
	40 mm	—	½ in	Treated Brass/Polyamide	**49K682**
Elbows					
45° Elbow	25 mm	—	½ in	Treated Brass/Polyamide	**49K692**
	25 mm	—	¾ in	Treated Brass/Polyamide	**49K693**
	25 mm	—	—	Polyamide	**4JMH5**
	40 mm	—	1 in	Treated Brass/Polyamide	**49K695**
	40 mm	—	1 ½ in	Treated Brass/Polyamide	**49K696**
	40 mm	—	2 in	Treated Brass/Polyamide	**49K697**
	40 mm	—	—	Polyamide	**4JMF1**
90° Elbow	16.5 mm	—	¼ in	Treated Brass/Polyamide	**49K683**
	16.5 mm	—	½ in	Treated Brass/Polyamide	**49K684**
	16.5 mm	—	—	Polyamide	**4JMJ9**
	25 mm	—	½ in	Treated Brass/Polyamide	**49K685**
	25 mm	—	¾ in	Treated Brass/Polyamide	**49K686**
	25 mm	—	1 in	Treated Brass/Polyamide	**49K687**
	25 mm	—	—	Polyamide	**4JMG8**
	40 mm	—	2 in	Treated Brass/Polyamide	**49K691**
	40 mm	—	—	Polyamide	**4JME7**
	40 mm	—	1 in	Treated Brass/Polyamide	**49K688**
	40 mm	—	1 ¼ in	Treated Brass/Polyamide	**49K689**
	40 mm	—	1 ½ in	Treated Brass/Polyamide	**49K690**
Tees					
Equal Tee	16.5 mm	16.5 mm	—	Polyamide	**4JMK1**
	25 mm	25 mm	—	Polyamide	**4JMG9**
	40 mm	40 mm	—	Polyamide	**4JME8**
Threaded Adapters					
Threaded Adapter	16.5 mm	—	¼ in	Plated Brass	**4JMK4**
	16.5 mm	—	½ in	Plated Brass	**4JMK5**
	25 mm	—	½ in	Plated Brass	**4JMH1**
	25 mm	—	¾ in	Plated Brass	**4JMH2**
	25 mm	—	1 in	Plated Brass	**4JMH3**
	40 mm	—	1 ¼ in	Brass	**20CM57**
	40 mm	—	1 in	Plated Brass	**4JMF3**
	40 mm	—	1 ½ in	Plated Brass	**4JMF4**
	40 mm	—	2 in	Plated Brass	**4JMF5**
Reducers					
In-Line Reducer	25 mm	17 mm	—	Treated Aluminum	**4JMJ3**
	40 mm	25 mm	—	Treated Aluminum	**4JMG2**
	63 mm	40 mm	—	Treated Aluminum	**4JMG3**
Pipe Fixing Clip Spacer					
Pipe Fixing Clip Spacer	—	—	—	Polyamide	**20CM62**
Manifolds					
Manifold	25 mm	25 mm	½ in	Treated Brass/Polyamide	**49K679**
	40 mm	40 mm	½ in	Treated Brass/Polyamide	**49K680**
Brackets					
2-Port Wall Bracket	16.5 mm	—	½ in	Plated Brass	**4JMK7**
	25 mm	—	½ in	Plated Brass	**4JMJ5**
3-Port Wall Bracket	25 mm	—	½ in	Brass	**20CM61**
Drop Bracket	25 mm	—	—	Polyamide	**4JMH7**
	25 mm	17 mm	—	Polyamide	**4JMH8**
	40 mm	17 mm	—	Polyamide	**4JMF6**
	40 mm	25 mm	—	Polyamide	**4JMF7**
End Cap	16.5 mm	—	—	Polyamide	**4JMK3**
	25 mm	—	—	Polyamide	**4JMH6**
	40 mm	—	—	Polyamide	**4JMF2**
Simple Reducing Bracket	25 mm	17 mm	—	Polyamide	**4JMH9**
	40 mm	25 mm	—	Polyamide	**4JMF8**
Threaded Drop Bracket	25 mm	—	½ in	Polyamide	**4JMJ1**
	40 mm	—	½ in	Polyamide	**4JMF9**
Threaded Simple Reducing Bracket	25 mm	—	½ in	Polyamide	**4JMJ2**
	40 mm	—	½ in	Polyamide	**4JMG1**
U-Channel Fixing Bracket	—	—	—	Steel	**20CM63**
Union Connector	16.5 mm	—	—	Polyamide	**4JMK2**
	25 mm	—	—	Polyamide	**4JMH4**
	40 mm	—	—	Polyamide	**4JME9**
Wall Bracket	16.5 mm	—	½ in	Treated Brass/Polyamide	**49K667**
	16.5 mm	—	½ in	Treated Brass/Polyamide	**49K669**
	19.05 mm	—	½ in	Treated Brass/Polyamide	**49K671**
	25 mm	—	½ in	Treated Brass/Polyamide	**49K668**
	25 mm	—	½ in	Treated Brass/Polyamide	**49K670**

International Air Treatment Standards

ISO Quality Class	Solid Particle - Maximum Number 0.1-0.5 Micron	0.1-1.0 Micron	0.1-5.0 Micron	Water - Pressure Dew Point °F	°C	Oil (Including Vapor)
1	100	1	—	-100	-70	0.01
2	100,000	1,000	10	-40	-40	0.1
3	—	10,000	500	-4	-20	1
4	—	—	1,000	37.4	3	5
5	—	—	20,000	44.6	7	—
6	—	—	—	50	10	—

ISO 8573.1 Air Quality Classes

Maintaining air quality is so important that the International Standards Organization (ISO) developed 6 compressed air quality classes, as defined by ISO 8573.1. Testing methodology established at 100°F inlet temperature, 100°F ambient temperature, and 100 psig.

3YA51

SPEEDAIRE® Hankison®

Refrigerated Air Dryers

SPEEDAIRE® SERIES

3YA49 and 3YA50 include an illuminated On/Off switch, high-efficiency separator, and no air loss float drain. 3YA51 to 3YA53 include an illuminated On/Off switch, high-efficiency separator and timed electric drain.

HANKISON® SERIES

Fully automatic operation ensures maximum moisture removal. Easily installed units come preassembled with quality components for long service life. All units with max. air compressor HP over 25 include a coalescing filter and auto-drain. 3YA43 and 3YA44 include high-efficiency separators without air loss, Power On light, and 6-ft. power cord. 3YA45 includes On/Off switch, Power On light, dew point indicator, and 6-ft. power cord.

3YA44

Max. Flow	Max. Air Compressor HP	ISO Class*	Max. Incoming Pressure	Max. Inlet Temp.	Voltage	Full Load Amps	Phase	Pipe Size	Overall Height	Overall Width	Overall Depth	Item No.	OPTIONAL MAINTENANCE KIT Item No.
Speedaire® Series													
10 cfm	3 hp	6	250 psi	120°F	115V AC	2.52 A	Single	⅜" O.D.	15 in	13 in	13 in	**3YA49**	**2DAY6**
15 cfm	5 hp	5	250 psi	120°F	115V AC	2.63 A	Single	⅜" O.D.	15 in	13 in	13 in	**3YA50**	**2DAY6**
25 cfm	7.5 hp	6	250 psi	120°F	115V AC	6.0 A	Single	¾" NPT	22 in	15 in	16 in	**3YA51**	**2DAY7**
35 cfm	10 hp	6	250 psi	120°F	115V AC	6.0 A	Single	¾" NPT	22 in	15 in	16 in	**3YA52**	**2DAY7**
50 cfm	15 hp	6	250 psi	120°F	115V AC	7.25 A	Single	¾" NPT	22 in	20 in	20 in	**3YA53**	**2DAY7**
75 cfm	20 hp	5	232 psi	120°F	115V AC	5.6 A	Single	1"	24 in	14 in	32 in	**435Y05**	**2DAY8**
100 cfm	25 hp	5	232 psi	120°F	115V AC	7.0 A	Single	1"	24 in	14 in	32 in	**435Y07**	**2DAY8**
125 cfm	30 hp	5	232 psi	120°F	115V AC	7.0 A	Single	1"	24 in	14 in	32 in	**435Y08**	**2DAY8**
500 cfm	100 hp	5	232 psi	120°F	460V AC	4.4 A	Three	2"	32 in	25 in	41 in	**435Y09**	—
Speedaire® Alpha Pure Series with Cooling Fans													
10 cfm	3 hp	5	232 psi	122°F	115V AC	6.1 A	Single	½" NPT	30 in	19 in	18 in	**53RG55**	**2DAY5**
15 cfm	5 hp	5	232 psi	122°F	115V AC	6.1 A	Single	½" NPT	30 in	19 in	18 in	**53RG56**	**2DAY5**
25 cfm	7.5 hp	5	232 psi	122°F	115V AC	8.3 A	Single	½" NPT	30 in	19 in	18 in	**53RG57**	**2DAY5**
35 cfm	10 hp	5	232 psi	122°F	115V AC	8.3 A	Single	¾" NPT	30 in	19 in	18 in	**53RG58**	**2DAY5**
50 cfm	15 hp	5	232 psi	122°F	115V AC	8.3 A	Single	¾" NPT	38 in	20 in	21 in	**53RG59**	**2DAY5**
Hankison® Series													
10 cfm	3 hp	6	250 psi	120°F	115V AC	2.52 A	Single	⅜" O.D.	15 in	13 in	13 in	**3YA43**	**2DAX5**
15 cfm	5 hp	5	250 psi	120°F	115V AC	2.63 A	Single	⅜" O.D.	15 in	13 in	13 in	**3YA44**	**2DAX5**
25 cfm	7.5 hp	6	250 psi	120°F	115V AC	6.0 A	Single	¾" NPT	22 in	15 in	16 in	**3YA45**	**2DAX6**
35 cfm	10 hp	6	250 psi	120°F	115V AC	6.0 A	Single	¾" NPT	22 in	15 in	16 in	**3YA46**	**2DAX6**
50 cfm	15 hp	6	250 psi	120°F	115V AC	7.25 A	Single	¾" NPT	22 in	20 in	20 in	**3YA47**	**2DAX6**
75 cfm	20 hp	5	232 psi	120°F	115V AC	5.6 A	Single	1"	24 in	14 in	32 in	**435Y06**	**2DAX5**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig.*

53RG55

SPEEDAIRE

Refrigerated Compressed Air Dryers

- ISO Class: 5*
- Max. incoming pressure: 232 psi
- Max. inlet temp.: 122°F
- 115V
- 6.1 full-load amps

Refrigerated compressed air dryer helps to dry air by passing it through a refrigerated heat exchanger. By cooling the air that enters the compressor, the dryer allows water vapor to condensate and drain out. Providing dry air can help protect your pneumatic piping, tools, and equipment. Also features digital controller and power saving low-pressure drop.

Max. Air Compressor HP	CFM	Max. Pressure	Full Load Amps	Pipe Size	Overall Height	Overall Width	Overall Depth	Item No.
3 hp	10	232 psi	6.1 A	½" NPT	30 in	19 in	18 in	**53RG55**
5 hp	15	232 psi	6.1 A	½" NPT	30 in	19 in	18 in	**53RG56**
7.5 hp	25	232 psi	8.3 A	½" NPT	30 in	19 in	18 in	**53RG57**
10 hp	35	232 psi	8.3 A	¾" NPT	30 in	19 in	18 in	**53RG58**
15 hp	50	232 psi	8.3 A	¾" NPT	38 in	20 in	21 in	**53RG59**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

Ingersoll Rand

60YR69

2HUE1

Refrigerated Cycling Air Dryers

- ISO Class: 4*

Refrigeration compressor turns off during periods of reduced loads to match actual compressed airflow, drawing only the energy required to provide continuous-pressure dew point performance. Innovative centrifugal separator allows high moisture separation and removal. Unwanted water from the air is discarded through a timed condensate drain.

Max. Air Compressor HP	Max. Flow	Max. Incoming Pressure	Full Load Amps	Inlet Size (Combined)	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Maximum Operating Temperature 100 °F, Max. Ambient Temp. 113 °F° 230V AC, Single Phase									
20 hp	75 cfm	200 psi	11 A	1 in NPT	30 ⅜ in	22 7⁄16 in	16 ⅝ in	DA127EC	**60YR69**
25 hp	100 cfm	200 psi	12.7 A	1 in NPT	30 ⅜ in	22 7⁄16 in	16 ⅝ in	DA170EC	**60YR70**
30 hp	125 cfm	200 psi	12.7 A	1 in NPT	30 ⅜ in	22 7⁄16 in	16 ⅝ in	DA212EC	**60YR71**
40 hp	150 cfm	200 psi	14.8 A	1 ½ in NPT	37 ½ in	19 11⁄16 in	30 ¼ in	DA255EC	**60YR72**
Maximum Operating Temperature 120 °F, Max. Ambient Temp. 113 °F° 460V AC, Three Phase									
50 hp	200 cfm	230 psi	6 A	1 ½ in NPT	58 in	28 in	30 in	NVC200	**2HUD9**
60 hp	300 cfm	230 psi	10 A	2 in NPT	58 in	28 in	30 in	NVC300	**2HUE1**
75 hp	400 cfm	230 psi	12 A	2 in NPT	58 in	28 in	30 in	NVC400	**2HUE2**
100 hp	600 cfm	230 psi	15 A	3 in NPT	62 in	42 in	40 in	NVC600	**2HUE3**
	700 cfm	230 psi	20 A	3 in NPT	62 in	42 in	40 in	NVC700	**2HUE4**
150 hp	800 cfm	230 psi	20 A	3 in NPT	62 in	42 in	40 in	NVC800	**2HUE5**
	1,000 cfm	220 psi	25 A	4 in Flange	69 in	32 in	72 in	NVC1000	**2HUE6**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

2HUC9

Ingersoll Rand

Heatless Twin Tower Regenerative Desiccant Air Dryers

- ISO Class: 2*
- Max. working pressure: 150 psi
- Max. inlet temp.: 120°F
- 115V
- 5.0 full-load amps

1-phase units feature advanced microprocessor controllers and include prefilters and afterfilters to remove oil and contaminates. NEMA 4 enclosure protects controller against water and condensation. Easy desiccant change. Switching valves direct wet inlet air between the 2 towers to provide a continuous supply of dry air. Diagnostic controls show regenerative sequence status.

CFM	Inlet/Outlet NPTF (in.)	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
120	1 in	63 in	40 ½ in	30 in	HLA1201H00AA	**2HUC4**
160	1 ½ in	66 in	44 ½ in	32 in	HLA1601H00AA	**2HUC5**
200	1 ½ in	66 in	44 ½ in	32 in	HLA2001H00AA	**2HUC6**
250	1 ½ in	67 in	48 ½ in	32 in	HLA2501H00AA	**2HUC7**
300	2 in	67 in	48 ½ in	32 in	HLA3001H00AA	**2HUC8**
400	2 in	68 in	52 ½ in	36 in	HLA4001H00AA	**2HUC9**
500	2 in	83 in	56 ½ in	40 in	HLA5001H00AA	**2HUD1**
600	2 in	83 in	56 ½ in	42 in	HLA6001H00AA	**2HUD2**
800	3 in	88 in	64 in	51 in	HLA800	**2HUD3**
1,000	3 in	88 in	64 in	51 in	HLA1000	**2HUD4**

** ISO Class dryer capacities established at 100°F inlet temp., 100°F ambient temp., and 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

2DBA8

60RC57

Hankison®

Regenerative Desiccant Compressed Air Dryers

Wall-mounted units provide protection to air systems exposed to temperatures below freezing. Automatic operation and stored adsorptive energy result in long desiccant life. Coalescing prefilter and after filter are included.

HANKISON® DHW SERIES

- Max. Inlet Temp.: 120 °F
- Max. Ambient Temp.: 120 °F
- 110V, 120VV
- 1-phase 110V, 120VV bottle units provide critically dry air in a compact package.

HANKISON HSHD SERIES

- Max. Inlet Temp.: 122 °F
- Max. Ambient Temp.: 104 °F
- 120VV
- 1-phase 120VV bottle units provide critically dry air in a compact package.

CFM	Max. Working Pressure (psi)	Full Load Amps	Inlet/ Outlet NPTF (in.)	H (in.)	W (in.)	D (in.)	ISO Class*	DRYERS Item No.	OPTIONAL MAINT. KIT Item No.
Hankison DHW Series, Wall Mounted									
50	150	0.6 A	½ in	43 ⅜ in	24 ⅜ in	8 ½ in	2	**2DBA8**	**2DBB2**
Hankison HSHD Series, Floor, Wall Mounted									
7 cfm	217 psi	0.7 A	½ in	19 in	14 in	7 in	1, 2	**60RC57**	—
13 cfm	217 psi	0.7 A	½ in	26 in	14 in	7 in	1, 2	**60RC58**	—
18 cfm	217 psi	0.7 A	½ in	35 in	14 in	7 in	1, 2	**60RC59**	—
21 cfm	217 psi	0.7 A	½ in	43 in	14 in	7 in	1, 2	**60RC60**	—
27 cfm	217 psi	0.7 A	½ in	39 in	15 in	7 in	1, 2	**60RC61**	—
40 cfm	217 psi	0.7 A	½ in	49 in	15 in	7 in	1, 2	**60RC62**	—

** For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

SPEEDAIRE®

Disposable In-Line 4-Stage Desiccant Filter/Dryer

Ideal for paint-spraying applications. Removes dust, dirt, water vapor, and oil aerosols that may have bypassed main air filtration system. Blue desiccant bead lowers dew point to -40°F and removes all water vapor. Replace filter when blue beads turn pink. Bidirectional flow.

3¾" x 1¹¹⁄₁₆" dia. ¼" NPT with female inlet and male outlet; can be attached at either end. 15 cfm.

Max. Incoming Pressure	Max. Operating Temp. (°F)	Item No.	Pkg. Qty.
125 psi	130 °F	**6ZC63**	2

5VC89

5Z610

5Z611

2YNL6

Desiccant Air Dryers

SPEEDAIRE® WILKERSON®

Ideal for drying small volumes of air at the point of use. Protect branch lines exposed to temperatures below freezing. Convenient in-line mounting saves space. Premeasured desiccant packaged in convenient, easy-to-use bags for less waste.

Multistage Desiccant Dryers—All-in-one units also contain activated charcoal to remove oil and oil vapors. Suitable for paint spray applications including waterborne paints. Dew point to -30°F. 4UDK5 and 2YNL7 are 4-stage dryers. 2YNL6 is 5-stage.

ISO Class*	CFM	Max. SCFM @ 100 psi	Total Cap. (cu. ft.)	Max. Operating (psi)	Max. Operating Temp. (°F)	Inlet/ Outlet NPTF (in.)	H (in.)	W (in.)	Brand	Item No.	REPLACEMENT DESICCANT Refills	REPLACEMENT DESICCANT Item No.
Desiccant Air Dryers, ISO Class 3												
3	5 cfm	5	2,300 cu ft	125 °F	125 °F	¼ in NPT	12 in	4 ⅛ in	Speedaire	**5VC89**	2	**5VD07**
3	10	10	4600	175	125 °F	¼	11 ⅞ in	4 ⅛ in	Speedaire	**5VC90**	2	**5VD08**
3	25	25	11,000	175	125 °F	½	20 in	4 ⅛ in	Speedaire	**5VC91**	2 Refills, 4 Bags	**5VD09**
3	30	30	13,800	175	125 °F	½	27 ⅞ in	4 ⅛ in	Speedaire	**5VC92**	2	**5VD10**
Desiccant Air Dryers, ISO Class 2												
2	5	5	600	150	125 °F	¼	6 ½ in	3 in	Wilkerson	**5Z610**	3	**5Z613**
2	10	10	4,400	150	125 °F	¼	13 ⅞ in	4 ¹³⁄₁₆ in	Wilkerson	**5Z611**	4	**5Z612**
2	25	25	11,000	150	125 °F	½	21 ⁵⁄₁₆ in	4 ¹³⁄₁₆ in	Wilkerson	**5Z769**	3	**5Z770**
Desiccant Filter/Dryers												
2	30 cfm	30	2,500 cu ft	125 °F	125 °F	½ in NPT	16 ⅞ in	3 in	Speedaire	**2YNL2**	1	**2YNL3**
2	40	40	5000	175	125 °F	½	21 ¼ in	4 in	Speedaire	**2YNL4**	1	**2YNL5**
Multistage Desiccant Dryers												
2	15	15	2,500	125	120 °F	½	11 ¼ in	14 ¼ in	Speedaire	**4UDK5**	(6) 1-quart Containers	**36J473**
2	25	25	5000	250	120 °F	½	16 ½ in	18 ¼ in	Speedaire	**2YNL7**	(6) 1-quart Containers	**36J473**
2	30 cfm	—	12,500 cu ft	250 psi	120 °F	½ in NPT	27 in	18 ¼ in	Speedaire	**2YNL6**	(4) 1 Gal. Containers	**6YTP5**

** ISO Class dryer capacities established at 100°F ambient temp., 100 psig. For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

4HEP3

Membrane Air Dryers

Hankison® Parker

2DBB5

Hankison® HMM Series—Units constantly exhaust extracted water vapor into the ambient surroundings. NEMA 7 Hazardous Environments. Grade 5 high-efficiency oil removal prefilter included.

- ISO Class: 2 to 6*
- Max. inlet temp.: 150°F
- Max. ambient temp.: 150°F

Hankison® SSM Series—Digital purge control governs a 2-way valve to control the venting sweep air, for applications where processed air demands start and stop. Grade 5 high-efficiency oil removal prefilter included.

- ISO Class: 2 to 6*
- Max. inlet temp.: 150°F
- Max. ambient temp.: 150°F

Parker AD Series—No electricity required; safe for hazardous environments (NEMA 7). Auto drain, water separator, and Grade BX coalescing filter included. Average membrane life: 15 yr.

- ISO Class: 4 to 6*
- Max. inlet temp.: 120°F
- Max. ambient temp.: 120°F
- +35°F dew point (at rated flow)

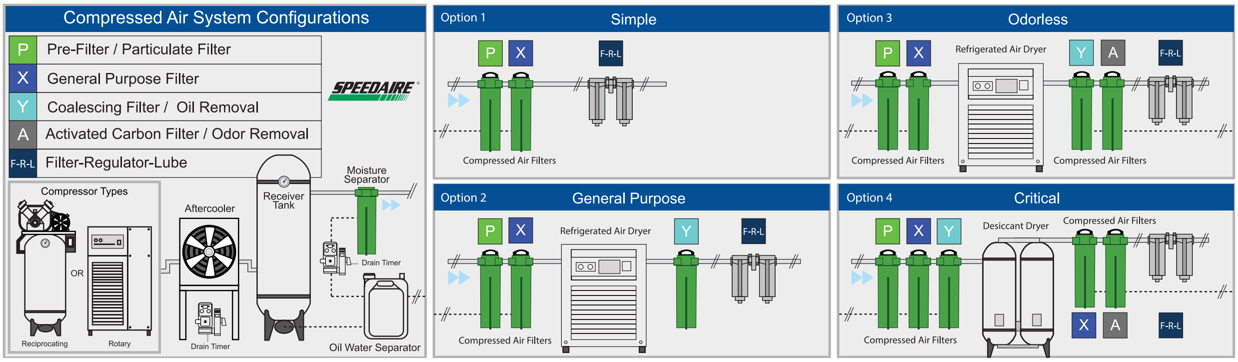
For Use With	Item No.
Replacement Auto Drain	
4HEP4 4HEP5, 4HEP6, 4HEP7	**4YPR1**

CFM	Phase	Inlet/ Outlet (in.)	Max. Pressure (psi)	H (in.)	W (in.)	DRYERS Mfr. Model	DRYERS Item No.	KITS & ELEMENTS Mfr. Model	KITS & ELEMENTS Item No.
Hankison® HMM Series								**Optional Maintenance Kits**	
0.34 to 1.40	—	⅜ in	200 psi	11 in	8 in	HMM1-3F	**2DBB5**	HFM5-12M	**2DBB3**
1.28 to 4.55	—	⅜ in	200 psi	15 in	8 in	HMM2-3F	**2DBB6**	HFM5-12M	**2DBB3**
2.18 to 9.55	—	½ in	200 psi	19 in	8 in	HMM3-4F	**2DBB7**	HFM5-12M	**2DBB3**
4.09 to 13.67	—	½ in	200 psi	27 in	8 in	HMM4-4F	**2DBB8**	HFM5-12M	**2DBB3**
4.6 to 24.5	—	¾ in	200 psi	20 in	11 in	HMM5-6F	**2DBB9**	HFM5-24M	**2DBB4**
12.0 to 40.4	—	¾ in	200 psi	27 in	11 in	HMM6-6F	**2DBC1**	HFM5-24M	**2DBB4**
Hankison® SweepSaver Series									
0.34 to 1.40	1	⅜ in	200 psi	16 in	8 in	SMM1-3F	**2DBC2**	—	—
1.28 to 4.55	1	⅜ in	200 psi	20 in	8 in	SMM2-3F	**2DBC3**	—	—
2.18 to 9.55	1	½ in	200 psi	24 in	8 in	SMM3-4F	**2DBC4**	—	—
4.09 to 13.67	1	½ in	200 psi	32 in	8 in	SMM4-4F	**2DBC5**	—	—
4.6 to 24.5	1	¾ in	200 psi	25 in	11 in	SMM5-6F	**2DBC6**	—	—
12.0 to 40.4	1	¾ in	200 psi	32 in	11 in	SMM6-6F	**2DBC7**	—	—
Parker AD Series								**Replacement Filter Elements (Pk. 4)**	
1	—	¼ in	150 psi	5.4 in	18.8 in	AD0010-35	**4HEP3**	4/050-05-BX	**4YPN6**
3	—	¼ in	150 psi	9.4 in	22.1 in	AD0030-35	**4HEP4**	4/100-12-BX	**4YPN8**
8	—	¼ in	150 psi	9.4 in	27.5 in	AD0080-35	**4HEP5**	4/100-12-BX	**4YPN8**
20	—	½ in	150 psi	12.4 in	28.5 in	AD0200-35	**4HEP6**	4/100-18-BX	**4YPP2**
40	—	½ in	150 psi	12.4 in	44.5 in	AD0400-35	**4HEP7**	4/100-18-BX	**4YPP2**

** For more information on ISO Classes, see International Air Treatment Standards on page 2587.*

Scan. Order. Done.
Details on page A1.

Compressed Air System Configurations



4GNL4

Condensate Separators

SPEEDAIRE WILKERSON

Feature a centrifugal airflow pattern that helps remove bulk contaminants from the compressed air stream. Low pressure drop. Separators equipped with auto drain automatically discharge condensate and dirt.

Note: For additional sizes, go to Grainger.com and search by "Condensate Separators".

NPT Size	Max. Flow CFM @ 100 psi	Max. Pressure (psi)	Max. Temp.	H (in.)	Dia.	Auto Drain Stock No.	Brand	Mfr. Model	FILTER Item No.	WALL BRACKET Item No.
¼ in	15	235 psi	176 °F	13.2 in	4	Included	Speedaire	4GNL3	**4GNL3**	**35GM64**
½ in	60	235 psi	176 °F	13.2 in	4	Included	Speedaire	4GNL4	**4GNL4**	**35GM65**
	50	200 psi	150 °F	7.34 in	3.35	Included	Wilkerson	WSA-04-FM0	**5Z771**	—
¾ in	120	235 psi	176 °F	13.2 in	4.8	Included	Speedaire	4GNL5	**4GNL5**	**35GM65**
	100	200 psi	150 °F	10 in	4.625	Included	Wilkerson	WSA-06-FM0	**5Z614**	—
1 in	175	235 psi	176 °F	13.2 in	4.8	Included	Speedaire	4GNL6	**4GNL6**	**35GM65**
	120	200 psi	150 °F	10 in	4.625	Included	Wilkerson	WSA-08-FM0	**5Z615**	—
	233	230 psi	175 °F	10.875 in	5.125	5Z617	Wilkerson	WS0-08-000B	**1AGJ4**	—
1½ in	350	235 psi	176 °F	13.2 in	4.8	Included	Speedaire	4GNL7	**4GNL7**	**35GM66**
	750	250 psi	175 °F	16.96 in	8.22	4ZK14	Speedaire	4ZL13	**4ZL13**	—
	742	230 psi	175 °F	17 in	6.75	5Z617	Wilkerson	WS0-0B-000B	**1AGJ5**	—
2 in	700	235 psi	176 °F	22 in	7.2	Included	Speedaire	4GNL8	**4GNL8**	**35GM66**
	750	250 psi	175 °F	16.96 in	8.22	4ZK14	Speedaire	4ZL15	**4ZL15**	—
	742	230 psi	175 °F	17 in	6.75	5Z620	Wilkerson	WS0-0C-000B	**1AGJ6**	—
3 in	1,300	235 psi	176 °F	28.8 in	10	Included	Speedaire	4GNL9	**4GNL9**	**35GM68**

Description	Item No.
Accessory	
Float Drain, Replacement for Nos. 4GNL3 to 4GNL9	**4GNN2**

Hankison

Air/Liquid Bypass Valve

Service components without shutting down the system; simply push 1 button to change modes. Push-button can be locked in place to make valve tamperproof. Inlet and outlet fittings are compression type with rubber ferrule. Ideal for most brands of refrigerated dryers, 5 to 15 cfm. Can be used with liquid and gases compatible with nylon, Buna N, and brass.

Inlet Port	Outlet Port	Max. Operating Temp.	Mfr. Model	Item No.
⅜" O.D.	⅜" O.D.	120 °F	1701-2	**5Z777**

38XT51

SPEEDAIRE

High-Pressure Compressed Air Filters

- Max. pressure: 725 psi

Rugged filters are constructed of heavy-duty, no-weld, fully anodized aluminum. Include a manual drain. Filters with a max. pressure of 5075 psi are available on Grainger.com.

Connection Size	Max. Flow	Pre-Filter, 5 Micron Item No.	Gen. Purpose, 1 Micron Item No.	Oil Removal, 0.01 Micron Item No.	Activated Carbon, 0.01 Micron Item No.	ELEMENT, Pre-Filter, 5 Micron Item No.	ELEMENT, Gen. Purpose, 1 Micron Item No.	ELEMENT, Oil Removal, 0.01 Micron Item No.	ELEMENT, Activated Carbon, 0.01 Micron Item No.
Filters						**Element**			
¼ in NPT	42 cfm	**38XT68**	**38XT34**	**38XR64**	**38XR89**	**38XR98**	**38XR74**	**38XT36**	**38XR48**
½ in NPT	125 cfm	**38XT19**	**38XT23**	**38XT51**	**38XR57**	**38XT15**	**38XR35**	**38XR91**	**38XR81**
¾ in NPT	250 cfm	**38XR41**	**38XT25**	**38XT44**	**38XR52**	**38XR97**	**38XR86**	**38XR75**	**38XT75**
1 in NPT	350 cfm	**38XR84**	**38XT04**	**38XT74**	**38XR50**	**38XR82**	**38XT66**	**38XT30**	**38XT43**
	500 cfm	**38XR99**	**38XR34**	**38XR92**	**38XT13**	**38XT73**	**38XR77**	**38XT24**	**38XT69**
1½ in NPT	940 cfm	**38XR53**	**38XT62**	**38XT38**	**38XR96**	**38XT07**	**38XR66**	**38XR60**	**38XT12**
2 in NPT	1,470 cfm	**38XT42**	**38XR51**	**38XT14**	**38XT08**	**38XR72**	**38XT50**	**38XR95**	**38XT29**
2½ in NPT	1,765 cfm	**38XR55**	**38XT64**	**38XR37**	**38XT03**	**38XT59**	**38XR62**	**38XR38**	**38XR73**

SPEEDAIRE®

Compressed Air Filters

- Aluminum filter bowl
- Include drain

Efficiently remove oil, oil vapor, particulates, water, and other contaminants. Units feature aluminum body with epoxy powder-coated finish. Tie Rod filters use a threaded post-mounted element. Zero Clearance filters use a drop-in cartridge and require no vertical clearance. Activated Carbon filters are not intended for removing carbon dioxide or carbon monoxide.

Optional Wall Bracket & Filter Clamp Reference	OPTIONAL WALL BRACKETS Item No.	OPTIONAL FILTER CLAMPS Item No.
Wall Brackets & Filter Clamps		
A	35GM64	35GM59
B	35GM65	35GM60
C	35GM66	35GM61
D	35GM67	35GM62
E	35GM68	35GM63

Description	Item No.
Accessories	
Differential Pressure Gauge (Compact)	35GN17
Differential Pressure Gauge	20Z911
Float Drain	4GNN2

35GM64

35GN32

35GK60

4GPF1

35GM47

				Activated Carbon, 0.01 micron		Coalescing, 0.01 micron		Coalescing, 1 micron		Particulate, 5 micron		
Air Inlet Size	Max. Flow	Max. Operating Pressure	Max. Operating Temp.	Filter Item No.	Element Item No.	Filter Item No.	Element Item No.	Filter Item No.	Element Item No.	Filter Item No.	Element Item No.	Optional Wall Bracket & Filter Clamp Ref.
Filters with Gauge - Tie Rod												
¼ in-NPT	15 cfm	290 psi	77 °F	4GNW6	4GPD8	—	—	—	—	—	—	A
	15 cfm	290 psi	176 °F	—	—	4GNW9	4GPE2	4GNW8	4GPE1	4GNW7	4GPD9	A
⅜ in-NPT	30 cfm	290 psi	77 °F	4GNX1	4GPE3	—	—	—	—	—	—	A
½ in-NPT	30 cfm	235 psi	122 °F	35GN30	4GPE3	—	—	—	—	—	—	A
	30 cfm	235 psi	176 °F	—	—	35GN33	4GPE6	35GN32	4GPE5	35GN31	4GPE4	A
	58 cfm	290 psi	77 °F	4GNX5	4GPE7	—	—	—	—	—	—	A
	58 cfm	290 psi	176 °F	—	—	4GNX8	4GPF1	4GNX7	4GPE9	4GNX6	4GPE8	A
	88 cfm	235 psi	176 °F	—	—	35GN41	4GPF5	—	—	—	—	B
¾ in-NPT	88 cfm	290 psi	122 °F	4GNX9	4GPF2	—	—	—	—	—	—	B
	88 cfm	290 psi	176 °F	—	—	4GNY3	4GPF5	4GNY2	4GPF4	4GNY1	4GPF3	B
	117 cfm	290 psi	77 °F	4GNY4	4GPF6	—	—	—	—	—	—	B
1 in-NPT	117 cfm	235 psi	122 °F	35GN49	4GPF6	—	—	—	—	—	—	B
	117 cfm	235 psi	176 °F	—	—	35GN48	4GPF9	35GN47	4GPF8	35GN46	4GPF7	B
	147 cfm	290 psi	77 °F	4GNY8	4GPG1	—	—	—	—	—	—	B
	147 cfm	290 psi	176 °F	—	—	4GNZ2	4GPG4	4GNZ1	4GPG3	4GNY9	4GPG2	B
1¼ in-NPT	30 cfm	235 psi	176 °F	—	—	—	—	35GN28	4GPE5	—	—	A
	294 cfm	290 psi	176 °F	—	—	—	—	4GNZ9	4GPH2	—	—	C
	500 cfm	235 psi	176 °F	—	—	—	—	—	—	35GN70	4GPH9	D
1½ in-NPT	176 cfm	235 psi	122 °F	35GN61	4GPG5	—	—	—	—	—	—	C
	176 cfm	235 psi	176 °F	—	—	35GN60	4GPG8	35GN59	4GPG7	35GN58	4GPG6	C
	294 cfm	235 psi	122 °F	35GN65	4GPG9	—	—	—	—	—	—	C
	294 cfm	235 psi	176 °F	—	—	35GN64	4GPH3	35GN63	4GPH2	35GN62	4GPH1	C
	353 cfm	290 psi	77 °F	4GPA2	4GPH4	—	—	—	—	—	—	C
	353 cfm	290 psi	176 °F	—	—	4GPA5	4GPH7	4GPA4	4GPH6	4GPA3	4GPH5	C
2 in-NPT	500 cfm	290 psi	77 °F	4GPA6	4GPH8	—	—	—	—	—	—	D
	500 cfm	290 psi	176 °F	—	—	4GPA9	4GPJ2	4GPA8	4GPJ1	4GPA7	4GPH9	D
	712 cfm	290 psi	77 °F	4GPC1	4GPJ3	—	—	—	—	—	—	D
	712 cfm	290 psi	176 °F	—	—	4GPC4	4GPJ6	4GPC3	4GPJ5	4GPC2	4GPJ4	D
3 in-NPT	1,117 cfm	290 psi	122 °F	20Z890	20Z903	—	—	—	—	—	—	E
	1,117 cfm	290 psi	176 °F	—	—	20Z893	20Z906	20Z892	20Z905	20Z891	20Z904	E
	1,350 cfm	290 psi	122 °F	20Z894	20Z907	—	—	—	—	—	—	E
	1,350 cfm	290 psi	176 °F	—	—	20Z897	20Z910	20Z896	20Z909	20Z895	20Z908	E
Filters without Gauge - Tie Rod												
¼ in-NPT	15 cfm	290 psi	176 °F	—	—	4GNN7	4GPE2	4GNN6	4GPE1	—	—	A
⅜ in-NPT	30 cfm	290 psi	176 °F	—	—	—	—	4GNP1	4GPE5	—	—	A
½ in-NPT	58 cfm	290 psi	176 °F	—	—	4GNP6	4GPF1	4GNP5	4GPE9	—	—	A
¾ in-NPT	117 cfm	290 psi	122 °F	4GNR2	4GPF6	—	—	—	—	—	—	B
	117 cfm	290 psi	176 °F	—	—	—	—	4GNR4	4GPF8	—	—	B
1 in-NPT	147 cfm	290 psi	176 °F	—	—	4GNR9	4GPG4	—	—	—	—	B
1¼ in-NPT	176 cfm	290 psi	77 °F	4GNT1	4GPG5	—	—	—	—	—	—	C
1½ in-NPT	353 cfm	290 psi	176 °F	—	—	4GNU3	4GPH7	—	—	—	—	C
Filters - Zero Clearance (Compact)												
½ in-NPT	10 cfm	290 psi	77 °F	35GK60	35GM43	—	—	—	—	—	—	A
	10 cfm	290 psi	176 °F	—	—	35GK59	35GM27	35GK58	35GM11	35GK57	35GL94	A
Filters - Zero Clearance												
¼ in-NPT	15 cfm	290 psi	77 °F	35GK64	35GM44	—	—	—	—	—	—	A
	15 cfm	290 psi	176 °F	—	—	35GK63	35GM28	35GK62	35GM12	35GK61	35GL95	A
½ in-NPT	31 cfm	290 psi	77 °F	35GK84	35GM45	—	—	—	—	—	—	A
	31 cfm	290 psi	176 °F	—	—	35GK83	35GM29	35GK82	35GM13	35GK81	35GL96	A
	61 cfm	290 psi	77 °F	35GK92	35GM46	—	—	—	—	—	—	A
	61 cfm	290 psi	176 °F	—	—	35GK91	35GM30	35GK90	35GM14	35GK89	35GL97	A
¾ in-NPT	92 cfm	290 psi	77 °F	35GL01	35GM47	—	—	—	—	—	—	B
	92 cfm	290 psi	176 °F	—	—	35GK99	35GM31	35GK98	35GM15	35GK97	35GL98	B
1 in-NPT	92 cfm	290 psi	176 °F	—	—	35GL04	35GM31	—	—	—	—	B
	123 cfm	290 psi	77 °F	35GL13	35GM48	—	—	—	—	—	—	B
	123 cfm	290 psi	176 °F	—	—	35GL12	35GM32	35GL11	35GM16	35GL10	—	B
	154 cfm	290 psi	77 °F	35GL21	35GM49	—	—	—	—	—	—	B
	154 cfm	290 psi	176 °F	—	—	35GL20	35GM33	35GL19	35GM17	35GL18	—	B
1¼ in-NPT	526 cfm	290 psi	176 °F	—	—	35GL52	35GM37	—	—	—	—	C
1½ in-NPT	185 cfm	290 psi	77 °F	35GL33	35GM50	—	—	—	—	—	—	B
	185 cfm	290 psi	176 °F	—	—	35GL32	35GM34	35GL31	35GM18	35GL30	—	B
	308 cfm	290 psi	77 °F	35GL41	35GM51	—	—	—	—	—	—	B
	308 cfm	290 psi	176 °F	—	—	35GL40	35GM35	35GL39	35GM19	35GL38	35GM03	B
	370 cfm	290 psi	77 °F	35GL49	35GM52	—	—	—	—	—	—	B
	370 cfm	290 psi	176 °F	—	—	35GL48	35GM36	35GL47	35GM20	35GL46	35GM04	B
2 in-NPT	526 cfm	290 psi	77 °F	35GL61	35GM53	—	—	—	—	—	—	C
	526 cfm	290 psi	176 °F	—	—	35GL60	35GM37	35GL59	35GM21	35GL58	35GM05	C
	747 cfm	290 psi	77 °F	35GL65	35GM54	—	—	—	—	—	—	C
	747 cfm	290 psi	176 °F	—	—	35GL64	35GM38	35GL63	35GM22	35GL62	35GM06	C
	939 cfm	290 psi	176 °F	—	—	—	—	—	—	35GL66	35GM07	D
3 in-NPT	939 cfm	290 psi	77 °F	35GL77	35GM55	—	—	—	—	—	—	D
	939 cfm	290 psi	176 °F	—	—	35GL76	35GM39	35GL75	35GM23	35GL74	35GM07	D
	1,124 cfm	290 psi	77 °F	35GL85	35GM56	—	—	—	—	—	—	D
	1,124 cfm	290 psi	176 °F	—	—	35GL84	35GM40	35GL83	35GM24	35GL82	35GM08	D
	1,371 cfm	290 psi	77 °F	35GL89	35GM57	—	—	—	—	—	—	D
	1,371 cfm	290 psi	176 °F	—	—	35GL88	—	35GL87	—	35GL86	—	D
	1,668 cfm	290 psi	77 °F	35GL93	35GM58	—	—	—	—	—	—	E
	1,668 cfm	290 psi	176 °F	—	—	35GL92	—	35GL91	—	35GL90	—	E

3-Stage Sterile Air Filter Assembly
4HEU2

Parker

Multistage Sterile Air Filter Assemblies

- Max. pressure: 250 psi
- Max. temp.: 130°F
- 2 ports

Complete 3-stage sterile air systems feature integrated prefilter assembly that includes high-efficiency coalescing filter for removal of liquid and solid contaminants, automatic drain, and a color-coded differential pressure measurement to indicate filter changes. The final-stage sterile air grade filter removes all viable organisms. Individual components are also available separately. Sterile air filters do not require drains.

Pipe Size	Max. Flow	Drain Type	Item No.
3-Stage Sterile Air Filter Assembly - 99.9999+ % Efficiency @ 0.01 Microns			
¼ in NPT	36 cfm	Automatic	**4HEU2**
⅜ in NPT	36 cfm	Automatic	**4HEU3**
½ in NPT	90 cfm	Automatic	**4HEU4**
¾ in NPT	101 cfm	Automatic	**4HEU5**
1 in NPT	154 cfm	Automatic	**4HEU6**
1½ in NPT	223 cfm	Automatic	**4HEU7**

Pipe Size	Max. Flow	Drain Type	Item No.	Pkg. Qty.	REPLACEMENT ELEMENTS Item No.	REPLACEMENT ELEMENTS Pkg. Qty.
Pneumatic Coalescing Prefilter - 99.3% Efficiency @ 0.01 micron w/ Gauge						
¼ in NPT	145 cfm	Automatic	**4HEP9**	1	—	—
⅜ in NPT	145 cfm	Automatic	**4HER3**	1	—	—
½ in NPT	145 cfm	Automatic	**4HER6**	1	—	—
½ in NPT	316 cfm	Automatic	**4HER9**	1	—	—
¾ in NPT	596 cfm	Automatic	**4HET3**	1	—	—
1 in NPT	877 cfm	Automatic	**4HET6**	1	—	—
1½ in NPT	1,546 cfm	Automatic	**4HET9**	1	—	—
Pneumatic Coalescing Prefilter - 99.3% Efficiency @ 0.01 Microns w/ Gauge						
¼ in NPT	145 cfm	Automatic	—	—	**4YPN7**	4
⅜ in NPT	145 cfm	Automatic	—	—	**4YPN7**	4
½ in NPT	145 cfm	Automatic	—	—	**4YPN7**	4
½ in NPT	316 cfm	Automatic	—	—	**4YPP1**	4
¾ in NPT	596 cfm	Automatic	—	—	**4YPP4**	4
1 in NPT	877 cfm	Automatic	—	—	**4YPP4**	4
1½ in NPT	1,546 cfm	Automatic	—	—	**4YPP7**	4
Pneumatic Coalescing Prefilter - 99.99% Efficiency @ 0.01 Microns						
¼ in NPT	58 cfm	Automatic	**4HEP8**	1	**4YPN8**	4
⅜ in NPT	58 cfm	Automatic	**4HER2**	1	**4YPN8**	4
½ in NPT	58 cfm	Automatic	**4HER5**	1	**4YPN8**	4
½ in NPT	145 cfm	Automatic	**4HER8**	1	**4YPP2**	4
¾ in NPT	162 cfm	Automatic	**4HET2**	1	**4YPP5**	4
1 in NPT	178 cfm	Automatic	**4HET5**	1	**4YPP5**	4
1½ in NPT	358 cfm	Automatic	**4HET8**	1	**4YPP8**	4

Pipe Size	Max. Flow	Drain Type	Item No.	REPLACEMENT CARTRIDGES Item No.	REPLACEMENT CARTRIDGES Pkg. Qty.
Pneumatic Sterile Air Filter - 99.9999+ % Efficiency @ 0.01 Microns					
⅜ in NPT	35 cfm	Automatic	**4HER4**	**4YPN9**	3
½ in NPT	35 cfm	Automatic	**4HER7**	**4YPN9**	3
½ in NPT	90 cfm	Automatic	**4HET1**	**4YPP3**	3
¾ in NPT	122 cfm	Automatic	**4HET4**	**4YPP6**	3
1 in NPT	154 cfm	Automatic	**4HET7**	**4YPP6**	3
1½ in NPT	223 cfm	Automatic	**4HEU1**	**4YPP9**	3

Description	For Use With	Item No.
Replacement Auto Drain		
Auto Drain	4HEP3 to 4HEP9, 4HER1 to 4HER9, 4HET1 to 4HET9, 4HEU1 to 4HEU7	**4YPR1**

Pneumatic Air Filters and Replacement Elements

Ingersoll Rand

- Max. pressure: 250 psi
- Max. temp.: 176°F
- ½" NPT drain port
- Auto float drain type

Filter media repels water and oils to provide extended filter life and minimized pressure drop across the filter element. Include filter element service indicator.

Pipe Size	Max. Flow	Overall Height	Overall Width	FILTERS Item No.	ELEMENTS Item No.
General Purpose Filters, 0.1 Micron					
½ in NPT	22 cfm	8 ⅞ in	3 in	**32NA16**	**32NA21**
¾ in NPT	45 cfm	11 1⁄16 in	3 ⅞ in	**32NA17**	**32NA22**
¾ in NPT	65 cfm	11 1⁄16 in	3 ⅞ in	**32NA18**	**32NA23**
1 in NPT	135 cfm	12 ⅝ in	5 1⁄16 in	**32NA19**	**32NA24**
1½ in NPT	235 cfm	16 11⁄16 in	5 1⁄16 in	**32NA20**	**32NA25**
High-Efficiency Filters, 0.01 Micron					
½ in NPT	22 cfm	8 ⅞ in	3 in	**32NA06**	**32NA11**
¾ in NPT	45 cfm	11 1⁄16 in	3 ⅞ in	**32NA07**	**32NA12**
¾ in NPT	65 cfm	11 1⁄16 in	3 ⅞ in	**32NA08**	**32NA13**
1 in NPT	135 cfm	12 ⅝ in	5 1⁄16 in	**32NA09**	**32NA14**
1½ in NPT	235 cfm	16 11⁄16 in	5 1⁄16 in	**32NA10**	**32NA15**

For Use On	Item No.	ELEMENTS Item No.
Legacy Filters		
3EME7	**3EMF8**	**3EMF8**
3EME8	**3EMF9**	**3EMF9**
3EME9	**32NA21**	**3EMG1**
3EMF1	**32NA22**	**3EMG2**
3EMF2	**32NA23**	**3EMG3**
3EMF3	**32NA24**	**3EMG4**
3EMF4	**32NA25**	**3EMG5**
3EMF5	**32NA11**	**3EMG6**
3EMF6	**32NA12**	**3EMG7**
3EMF7	**32NA13**	**3EMG8**

32NA16

Compressed Air Filter Replacement Elements

NUMATICS Parker

Replacement filter elements retrofit most housings and effectively remove oil, water, and particulate from any compressed air system.

Additional filter elements are available on Grainger.com.

Cross Reference	Brand	Mfr. Model	Item No.
Balston Replacement Filters			
Coalescing			
Balston 100-09-CX	Numatics	RB10009T	**22F257**
Balston 100-18-CX	Numatics	RB10018T	**22F263**
Balston 050-05-CQ	Numatics	RB0505TI	**22F297**
Balston 050-05-DQ	Numatics	RB0505UI	**22F298**
Binks Replacement Filters			
Coalescing			
Binks 86-952	Numatics	RB86952	**22F329**
Binks 86-982	Numatics	RB86982	**22F331**
Particulate			
Binks 86-1006	Numatics	RB861006	**22F325**
General Pneumatics Replacement Filters			
Coalescing			
General Pneumatics GPE 95-60-PF	Numatics	RGPGPE9560S	**22F346**
General Pneumatics GPE 95-275-PF	Numatics	RGPGPE95275S	**22F348**
General Pneumatics GPE 95-600-PF	Numatics	RGPGPE95600S	**22F350**
Hankison Replacement Filters			
Microfiberglass			
Hankinson 0713-2	Parker	6CM10-025	**4GEL6**
Hankinson 0713-3	Parker	6CM10-050	**4GEL7**
Hankinson 0713-4	Parker	6CM15-060	**4GEL8**
Hankinson 0713-5	Parker	6CM15-095	**4GEL9**
Hankinson 0713-6	Parker	6CM15-185	**4GEM1**
Hankinson E5-20	Parker	6CH10-060	**4GER8**
Hankison E5-24	Parker	6CH16-066	**4GER9**
Hankinson E5-28	Parker	6CH16-108	**4GET1**
Hankinson E5-32	Parker	6CH19-131	**4GET2**
Hankinson E5-36	Parker	6CH19-176	**4GET3**
Headline Replacement Filters			
Microfiberglass			
Headline 25-64-50C	Parker	6H10-025	**4GEX7**
Headline 25-64-70C	Parker	10H10-025	**4GEX9**
Headline 38-152-50C	Parker	6H15-060	**4GEY2**
Henderson Replacement Filters			
Microfiberglass			
Henderson 8D20	Parker	6CN10-028	**4GEZ7**
Henderson 8D28	Parker	6CN10-038	**4GEZ8**
Henderson 16D33	Parker	6CU19-050	**4GEZ9**
Henderson 16D100	Parker	6CU19-130	**4GFA2**
Henderson 16D150	Parker	6CU19-187	**4GFA3**
Pall/PPC Replacement Filters			
Cellulose			
Pall GPC-175AF	Parker	3PP19-075	**4CUU5**
Pall MDC-1202EC, PCC-1202EC	Parker	3PP26-265	**4CUU6**
Pall PCC-350AF	Parker	3PP30-143	**4CUU8**
Pall PCS-350AF	Parker	3PPS30-143	**4CUU9**
Pall PCC-600AF	Parker	3PP30-140	**4CUV1**
Pall PCC-700AF, PCC-1200AF	Parker	3PP30-295	**4CUV2**
Pall PCS-700AF, PCS-1200AF	Parker	3PPS30-295	**4CUV3**
Pall MDC-1001AF, PCC-1001AF, PCS-1001AF	Parker	3PP19-098	**4CUV4**
Pall MDC-1002AF, PCC-1002AF, PCS-1002AF	Parker	3PP19-198	**4CUV5**
Pall PCC-1003AF	Parker	3PP19-298	**4CUV6**
Pall MDC-1201AF, PCC-1201AF	Parker	3PP26-132	**4CUV7**
Zeks Replacement Filters			
Adsorbing Grade			
Zeks E1000A	Numatics	RZA1000	**22F374**
Coalescing			
Zeks H600	Numatics	RZH600	**22F367**
Zeks FF0250	Numatics	RZFF0250	**22F368**
Zeks L140	Numatics	RZL140	**22F369**
Particulate			
Zeks P275	Numatics	RZP275	**22F363**
Zeks P330	Numatics	RZP330	**22F364**
Zeks P670	Numatics	RZP670	**22F365**

Microfiberglass

Cross Reference	Brand	Mfr. Model	Item No.
Donaldson Replacement Filters			
Cellulose			
Donaldson V-PE 3/1	Parker	3PJ10-030	**4CUY2**
Donaldson V-PE 3/1,5	Parker	3PJ13-030	**4CUY3**
Donaldson V-PE 4/1,5	Parker	3PJ13-044	**4CUY4**
Microfiberglass			
Donaldson MF 5/25, MF 5/2,5	Parker	6IJN15-050	**4CVJ6**
—	Parker	6IJN15-070	**4CVJ7**
Donaldson MF 07/30	Parker	6IJN25-070	**4CVJ8**
Donaldson MF 10/30	Parker	6IJN25-100	**4CVJ9**
Donaldson MF 15/30	Parker	6IGN25-150	**4CVK1**
Donaldson MF 20/30	Parker	6IGN25-200	**4CVK2**

SPEEDAIRE®

Oil Removal (Coalescing) Filters

- Filters to 0.01 microns
- Service life indicator is standard (except miniatures)
- Max. pressure: 150 psi (polycarbonate bowl); 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl); 150°F (metal bowl)
- Modular connector allows easy removal and replacement

For maximum life, use in conjunction with a general purpose air line filter equipped with a 5-micron element.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	POLY Item No.	POLY WITH GUARD Item No.	METAL WITH SIGHT GLASS Item No.
Miniature	⅛ in NPT	6 cfm	4 ¼ in	1 ⅝ in	**4ZL16**	—	—
	¼ in NPT	6.5 cfm	4 ¼ in	1 ⅝ in	**4ZL17**	—	—
Compact	¼ in NPT	10.5 cfm	7 15⁄16 in	2 in	—	**4ZL24**	**4ZL23**
	⅜ in NPT	10.5 cfm	7 15⁄16 in	2 in	—	**4ZL26**	**4ZL25**
Intermediate	¼ in NPT	20 cfm	8 ½ in	2 11⁄16 in	—	**4ZL32**	**4ZL31**
	⅜ in NPT	20 cfm	8 ½ in	2 11⁄16 in	—	**4ZL34**	**4ZL33**
	½ in NPT	20 cfm	8 ½ in	2 11⁄16 in	—	**4ZL36**	**4ZL35**
Standard	⅜ in NPT	20 cfm	9 5⁄16 in	3 ⅛ in	—	**4ZL44**	**4ZL43**
	½ in NPT	35 cfm	9 5⁄16 in	3 ⅛ in	—	**4ZL46**	**4ZL45**
Standard (High Flow)	½ in NPT	60 cfm	11 ⅜ in	3 ⅛ in	—	—	**4ZL53**
	¾ in NPT	60 cfm	11 ⅜ in	3 ⅛ in	—	**4ZL55**	**4ZL54**
Heavy-Duty	¾ in NPT	90 cfm	13 ¼ in	4 ¾ in	—	—	**4ZL18**
	1 in NPT	125 cfm	13 ¼ in	4 ¾ in	—	—	**4ZL19**
	1½ in NPT	250 cfm	18 ⅞ in	8 ¼ in	—	—	**4ZL20**
	2 in NPT	300 cfm	18 ⅞ in	8 ¼ in	—	—	**4ZL21**
Heavy-Duty with Auto-Drain	2 in NPT	600 cfm	26 11⁄16 in	8 ¼ in	—	—	**4ZL22**

** cfm measured at 100 psig with a saturated element (3 to 5 psig drop).*

For Use On	Filter Rating	Item No.
Replacement Oil Removal Coalescing Filter Elements		
Miniature	0.01 micron	**4ZK21**
Compact	0.01 micron	**4ZK70**
Intermediate	0.01 micron	**4ZK56**
Standard	0.01 micron	**4ZK46**
Standard (High Flow)	0.01 micron	**4ZK47**
Heavy-Duty (¾" to 1")	0.01 micron	**4ZK62**
Heavy-Duty (1½" to 2")	0.01 micron	**4ZK15**
General Purpose and Oil Removal Filter Mounting Brackets		
Miniature	—	**4ZK71**
Compact	—	**4ZK29**
Intermediate	—	**4ZK53**
Standard	—	**4ZK42**
Heavy-Duty	—	**4ZK72**
Automatic Filter Drains		
Miniature	—	**4ZK17**
Compact	—	**4ZK18**
Intermediate	—	**4ZK19**
Standard and Heavy-Duty	—	**4ZK14**

4ZL43

4ZL30

General Purpose Filters

SPEEDAIRE

- Filter to 5 microns
- Max. pressure: 150 psi (polycarbonate bowl), 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl), 175°F (metal bowl)
- Modular connector allows easy removal and swap out

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

For Use On	Filter Rating	For Use with Stock Number	Item No.
Replacement Compressed Air Filter Elements			
Compact	5 micron	4ZL27-4ZL30	**4ZK69**
	40 micron	4ZK82-4ZK85	**4ZK68**
Heavy Duty	5 micron	4ZK78, 4ZK79, 4ZL09-4ZL11	**4ZK60**
	5 micron	4ZL12, 4ZL14	**4ZK66**
	40 micron	4ZL09, 4ZL10, 4ZL11	**4ZK61**
	40 micron	4ZL12, 4ZL14	**4ZK67**
Intermediate	5 micron	4ZK86-4ZK91, 4ZL37-4ZL42	**4ZK54**
	40 micron	4ZK86-4ZK93	**4ZK55**
Miniature	5 micron	4ZL07, 4ZL08	**4ZK65**
Standard	5 micron	4ZK94-4ZL02, 4ZL47-4ZL52	**4ZK44**
	40 micron	4ZK94-4ZL02, 4ZL47-4ZL52	**4ZK45**

For Use With	Includes	Item No.
Air Filter Bowl Replacement Kits		
Speedaire Miniature Filters	Bowl and O-Ring	**1AKG5**
Speedaire Standard Filters	Bowl, Bowl Guard, O-Ring	**1AKG7**

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	Item No.
Polycarbonate					
Miniature	⅛" NPT	20 cfm	4 3/16 in	1 5/8 in	**4ZL07**
	¼" NPT	26 cfm	4 3/16 in	1 5/8 in	**4ZL08**
Polycarbonate with Guard					
Compact	¼" NPT	—	6 9/16 in	1 15/16 in	**4ZL28**
	⅜" NPT	—	6 9/16 in	1 15/16 in	**4ZL30**
Intermediate	¼" NPT	55 cfm	7 ⅛ in	2 11/16 in	**4ZL38**
	⅜" NPT	—	7 ⅛ in	2 11/16 in	**4ZL40**
	½" NPT	70 cfm	7 ⅛ in	2 11/16 in	**4ZL42**
Standard	⅜" NPT	—	7 15/16 in	3 ⅛ in	**4ZL48**
	½" NPT	—	7 15/16 in	3 ⅛ in	**4ZL50**
	¾" NPT	—	7 15/16 in	3 ⅛ in	**4ZL52**
Metal with Sight Gauge					
Compact	¼" NPT	—	6 9/16 in	1 15/16 in	**4ZL27**
	⅜" NPT	—	6 9/16 in	1 15/16 in	**4ZL29**
Intermediate	¼" NPT	55 cfm	7 ⅛ in	2 11/16 in	**4ZL37**
	⅜" NPT	—	7 ⅛ in	2 11/16 in	**4ZL39**
	½" NPT	70 cfm	7 ⅛ in	2 11/16 in	**4ZL41**
Standard	⅜" NPT	—	7 15/16 in	3 ⅛ in	**4ZL47**
	½" NPT	—	7 15/16 in	3 ⅛ in	**4ZL49**
	¾" NPT	—	7 15/16 in	3 ⅛ in	**4ZL51**
Heavy-Duty	¾" NPT	—	11 ⅞ in	4 ¾ in	**4ZL09**
	1" NPT	—	11 ⅞ in	4 ¾ in	**4ZL10**
	1½" NPT	—	11 ⅞ in	4 ¾ in	**4ZL11**
	1½" NPT	—	16 15/16 in	8 ¼ in	**4ZL12**
Heavy-Duty with Automatic Drain	2" NPT	—	16 15/16 in	8 ¼ in	**4ZL14**

** cfm based on 90 psig inlet and 5 psig pressure drop.*

4ZM08

4ZK51

SPEEDAIRE

General Purpose Regulators

- Max. temp. 150°F on miniature and compact units, 175°F on intermediate, standard, and heavy-duty regulators
- Modular connector allows easy removal and swap out

Feature 2 full-flow gauge ports. T-handle adjustment is optional. Manifold regulators provide multiple pressures from a common inlet.

WARNING: Do not connect regulator to bottled gas.

Description	Pipe Size	Gauge Port	Max. Flow*	Max. Inlet Pressure	Adjustment Range	Overall Height	Overall Width	Item No.
Miniature (compressor)	¼ in	⅛ in NPT	12 cfm	300 psi	5 to 150 psi	2.25 in	1.65 in	**4ZM13**
Miniature	⅛ in	⅛ in NPT	14 cfm	300 psi	5 to 125 psi	2.91 in	1.63 in	**4ZM07**
	¼ in	⅛ in NPT	15 cfm	300 psi	5 to 125 psi	2.91 in	1.63 in	**4ZM08**
Miniature (brass body)	⅛ in	⅛ in NPT	15 cfm	400 psi	5 to 125 psi	2.86 in	1.48 in	**4ZM05**
	¼ in	⅛ in NPT	15 cfm	400 psi	5 to 125 psi	2.86 in	1.48 in	**4ZM06**
Compact	¼ in	⅛ in NPT	80 cfm	300 psi	5 to 150 psi	4.19 in	1.97 in	**4ZM14**
	⅜ in	⅛ in NPT	80 cfm	300 psi	5 to 150 psi	4.19 in	1.97 in	**4ZM15**
	⅜ in	⅛ in NPT	70 cfm	300 psi	Non-Adjustable, 30 psi	4.07 in	1.97 in	**1WH33**
Compact (manifold)	¼ in	⅛ in NPT	90 cfm	300 psi	5 to 150 psi	4.19 in	1.97 in	**4ZM16**
	⅜ in	⅛ in NPT	140 cfm	300 psi	5 to 150 psi	4.19 in	1.97 in	**4ZM17**
Intermediate	¼ in	¼ in NPT	144 cfm	300 psi	5 to 150 psi	5.34 in	2.68 in	**4ZM18**
	⅜ in	¼ in NPT	208 cfm	300 psi	5 to 150 psi	5.34 in	2.68 in	**4ZM19**
	½ in	¼ in NPT	220 cfm	300 psi	5 to 150 psi	5.34 in	2.68 in	**4ZM20**
Standard	⅜ in	¼ in NPT	220 cfm	300 psi	5 to 150 psi	6.67 in	3.15 in	**4ZM21**
	½ in	¼ in NPT	220 cfm	300 psi	5 to 150 psi	6.67 in	3.15 in	**4ZM22**
	¾ in	¼ in NPT	220 cfm	300 psi	5 to 150 psi	6.67 in	3.15 in	**4ZM23**
Heavy-Duty	¾ in	¼ in NPT	450 cfm	300 psi	5 to 125 psi	7.09 in	4.25 in	**4ZM09**
	1 in	¼ in NPT	450 cfm	300 psi	5 to 125 psi	7.09 in	4.25 in	**4ZM10**
	1 ½ in	¼ in NPT	450 cfm	300 psi	5 to 125 psi	7.09 in	4.25 in	**4ZM11**
	2 in	¼ in NPT	2,000 cfm	450 psi	5 to 150 psi	9.71 in	5.98 in	**4ZM12**

** cfm flow measured with 150 psig inlet adjusted to set pressure of 90 psig (while increasing flow) and a 15 psig drop.*

For Use On	Item No.
Panel-Mounting Nuts	
Miniature Regulator and fitler/regulator	**4ZK13**
Compact Regulator	**4ZK32**
Intermediate Regulator	**4ZK58**
Standard Regulator and fitler/ regulatorRegulator	**4ZK49**
Mounting Brackets	
Miniature Regulator and fitler/regulator	**4ZK12**
Compact Regulator	**4ZK73**
Intermediate Regulator	**4ZK57**
Standard Regulator and fitler/regulator	**4ZK50**
Heavy Duty Regulator	**4ZK63**
T-Handle Conversion Kits	
Compact Regulator	**4ZK22**
Intermediate Regulator	**4ZK51**
Standard Regulator	**4ZK33**
Heavy Duty Regulator	**4ZK64**
Tamper-Resistant Covers	
Compact Regulator	**5ZL32**
Intermediate Regulator	**5ZL33**
Standard Regulator	**5ZL34**

Connec. Size	Dial Size	Item No.
Commercial Pressure Gauges		
⅛ in NPT	1 ½ in	**4FLZ8**
¼ in NPT	2 in	**4FMC7**

4ZK76

4ZK84

SPEEDAIRE

General Purpose All-in-One Filter/Regulator

- 40-micron filter elements (Mini are 0.01 and Miniature are 5 micron)
- Polycarbonate bowl: 150 max. psi; metal bowl: 250 max. psi
- Modular connector allows easy removal and swap out

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/ or air compressor systems using fire-resistant lubricants.

WARNING: Do not connect to bottled gas.

Description	Pipe Size	Max. Flow*	Max. Temp.	Overall Height	Overall Width	Item No.
Polycarbonate Bowls with Guard						
Compact	¼ in NPT	80 cfm	125 °F	8.72 in	2 in	**4ZK83**
	⅜ in NPT	80 cfm	125 °F	8.72 in	2 in	**4ZK85**
Intermediate	¼ in NPT	80 cfm	125 °F	9.95 in	2 11/16 in	**4ZK87**
	⅜ in NPT	120 cfm	125 °F	9.95 in	2 11/16 in	**4ZK89**
	½ in NPT	120 cfm	125 °F	9.95 in	2 11/16 in	**4ZK91**
Intermediate w/Gauge and Bracket	¼ in NPT	80 cfm	125 °F	9.95 in	2 11/16 in	**4ZK92**
	⅜ in NPT	120 cfm	125 °F	9.95 in	2 11/16 in	**4ZK93**
Polycarbonate Bowls w/Nonrising Knob Bowl Adjust						
Miniature	⅛ in NPT	13 cfm	125 °F	6.57 in	1 ⅝ in	**4ZK74**
	¼ in NPT	14 cfm	125 °F	6.57 in	1 ⅝ in	**4ZK75**
Miniature w/Brass Body	¼ in NPT	12 cfm	125 °F	6.57 in	1 ½ in	**4ZK77**
Miniature w/Gauge and Bracket	¼ in NPT	14 cfm	125 °F	6.57 in	1 ⅝ in	**4ZK76**
Polycarbonate Bowls						
Mini Oil Removal (Coalescing)	⅛ in NPT	4 cfm	125 °F	6.57 in	1 ⅝ in	**4ZK80**
	¼ in NPT	4 cfm	125 °F	6.57 in	1 ⅝ in	**4ZK81**
Standard	⅜ in NPT	163 cfm	125 °F	11.93 in	3 ⅛ in	**4ZK95**
	½ in NPT	212 cfm	125 °F	11.93 in	3 ⅛ in	**4ZK97**
	¾ in NPT	212 cfm	125 °F	11.93 in	3 ⅛ in	**4ZK99**
Standard w/Gauge and Bracket	½ in NPT	212 cfm	125 °F	11.93 in	3 ⅛ in	**4ZL01**
	¾ in NPT	212 cfm	125 °F	11.93 in	3 ⅛ in	**4ZL02**
Metal Bowls with Sight Glass w/Nonrising Knob Bowl Adjust						
Heavy-Duty (Yoke-Mount)	¾ in NPT	509 cfm	175 °F	15.04 in	7 ½ in	**4ZK78**
	1 in NPT	509 cfm	175 °F	15.04 in	7 ½ in	**4ZK79**
Metal Bowls with Sight Glass						
Compact	¼ in NPT	80 cfm	150 °F	8.72 in	2 in	**4ZK82**
	⅜ in NPT	80 cfm	150 °F	8.72 in	2 in	**4ZK84**
Intermediate	¼ in NPT	80 cfm	175 °F	9.95 in	2 11/16 in	**4ZK86**
	⅜ in NPT	120 cfm	175 °F	9.95 in	2 11/16 in	**4ZK88**
	½ in NPT	120 cfm	175 °F	9.95 in	2 11/16 in	**4ZK90**
Metal Bowls						
Standard	⅜ in NPT	163 cfm	175 °F	11.93 in	3 ⅛ in	**4ZK94**
	½ in NPT	140 cfm	175 °F	11.93 in	3 ⅛ in	**4ZK96**
	¾ in NPT	212 cfm	175 °F	11.93 in	3 ⅛ in	**4ZK98**

** cfm flow measured with 150 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop.*

In-Line Lubricators

- Polycarbonate bowl: 150 max. psi; 125°F max. temp.
- Metal bowl: 250 max. psi; 175°F max. temp.
- Modular connector allows easy removal and swap out

Lubricators maintain a constant oil-to-air density over a wide range of flow. An integral flow sensor provides proportional control.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

SPEEDAIRE®

Micromist—Provides lubrication for multiple pneumatic tools/devices. Comes equipped with a red 360° sight/feed dome.

- Up to 50-ft. pipe runs

Mist—Ideal lubrication for a single tool/device. Includes a green 360° sight/feed dome.

- 15- to 20-ft. pipe runs

For Use With	Includes	Item No.
Polycarbonate Air Lubricator Bowl Replacement Kits		
Speedaire Miniature Lubricators	Bowl and O-Ring	1AKJ2
Speedaire Compact Lubricators	Bowl, Bowl Guard, O-Ring	1AKG8
Speedaire Standard Lubricators	Bowl, Bowl Guard, O-Ring	1AKJ1

Bowl Material	Pipe Size	Max. Flow*	H	MICROMIST Item No.	MIST Item No.
Compact Series					
Polycarbonate with Zinc Guard	¼ in NPT	50 cfm	7 7/16 in	4ZL69	4ZL65
	⅜ in NPT	50 cfm	7 7/16 in	4ZL71	4ZL67
Zinc	¼ in NPT	50 cfm	7 7/16 in	4ZL68	4ZL64
	⅜ in NPT	50 cfm	7 7/16 in	4ZL70	4ZL66
Heavy Duty Series					
Metal with Sight Glass	¾ in NPT	160 cfm	12 7/16 in	4ZL58	4ZL59
	1 in NPT	275 cfm	12 7/16 in	4ZL60	4ZL61
	1½ in NPT	275 cfm	12 7/16 in	4ZL62	4ZL63
Intermediate Duty Series					
Aluminum	¼ in NPT	60 cfm	8 ⅛ in	4ZL78	4ZL72
	⅜ in NPT	75 cfm	8 ⅛ in	4ZL80	4ZL74
	½ in NPT	95 cfm	8 ⅛ in	4ZL82	4ZL76
Polycarbonate with Steel Guard	¼ in NPT	60 cfm	8 ⅛ in	4ZL79	4ZL73
	⅜ in NPT	75 cfm	8 ⅛ in	4ZL81	4ZL75
	½ in NPT	95 cfm	8 ⅛ in	4ZL83	4ZL77
Miniature Series					
Polycarbonate	⅛ in NPT	10 cfm	5 ½ in	4ZL56	—
	¼ in NPT	14 cfm	5 ½ in	4ZL57	—
Standard Duty Series					
Aluminum	⅜ in NPT	114 cfm	8 13/16 in	4ZL90	4ZL84
	½ in NPT	154 cfm	8 13/16 in	4ZL92	4ZL86
	¾ in NPT	142 cfm	8 13/16 in	4ZL94	4ZL88
Polycarbonate with Steel Guard	⅜ in NPT	114 cfm	8 13/16 in	4ZL91	4ZL85
	½ in NPT	154 cfm	8 13/16 in	4ZL93	—
	½ in NPT	80 cfm	8 13/16 in	—	4ZL87
	¾ in NPT	142 cfm	8 13/16 in	4ZL95	4ZL89

** cfm based on 90 psig inlet and 5 psig pressure drop.*

4ZL92

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	POLYCARBONATE WITH GUARD Max. Temp.	POLYCARBONATE WITH GUARD Item No.	METAL WITH SIGHT GLASS Max. Temp.	METAL WITH SIGHT GLASS Item No.
2-Piece Filter/Regulator MicroMist Lubricator*								
Compact	¼ in NPT	51 cfm	8 ¾ in	4 ¼ in	125 °F	7D683	150 °F	7D684
	⅜ in NPT	51 cfm	8 ¾ in	4 ¼ in	125 °F	7D685	150 °F	7D686
Intermediate	¼ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D699	175 °F	7D700
	⅜ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D701	175 °F	7D702
	½ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D703	175 °F	7D704
Standard	⅜ in NPT	114 cfm	11 15/16 in	6 13/16 in	125 °F	7D723	175 °F	7D724
	½ in NPT	192 cfm	11 15/16 in	6 13/16 in	125 °F	7D725	175 °F	7D726
	¾ in NPT	186 cfm	11 15/16 in	6 13/16 in	125 °F	7D727	175 °F	7D728
2-Piece Filter Regulator Mist Lubricator*								
Compact	¼ in NPT	51 cfm	8 ¾ in	4 ¼ in	125 °F	7D687	150 °F	7D688
	⅜ in NPT	51 cfm	8 ¾ in	4 ¼ in	125 °F	7D689	150 °F	7D690
Intermediate	¼ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D705	175 °F	7D706
	⅜ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D707	175 °F	7D708
	½ in NPT	60 cfm	9 15/16 in	5 15/16 in	125 °F	7D709	175 °F	7D710
Standard	⅜ in NPT	118 cfm	11 15/16 in	6 13/16 in	125 °F	7D729	175 °F	7D730
	½ in NPT	192 cfm	11 15/16 in	6 13/16 in	125 °F	7D731	175 °F	7D732
	¾ in NPT	186 cfm	11 15/16 in	6 13/16 in	125 °F	7D733	175 °F	7D734
3-Piece Filter and Regulator and MicroMist Lubricator†								
Compact	¼ in NPT	51 cfm	7 7/16 in	6 7/16 in	150 °F	7D691	150 °F	7D692
	⅜ in NPT	51 cfm	7 7/16 in	6 7/16 in	150 °F	7D693	150 °F	7D694
Intermediate	¼ in NPT	56 cfm	8 in	9 ⅛ in	175 °F	7D711	175 °F	7D712
	⅜ in NPT	60 cfm	8 in	9 ⅛ in	150 °F	7D713	150 °F	7D714
	½ in NPT	60 cfm	8 in	9 ⅛ in	175 °F	7D715	175 °F	7D716
Standard	⅜ in NPT	114 cfm	8 13/16 in	10 ½ in	175 °F	7D735	175 °F	7D736
	½ in NPT	154 cfm	8 13/16 in	10 ½ in	175 °F	7D737	175 °F	7D738
	¾ in NPT	142 cfm	8 13/16 in	10 ½ in	175 °F	7D739	175 °F	7D740
Heavy-Duty	¾ in NPT	160 cfm	12.45 in	14 ¾ in	—	—	175 °F	4ZL99
	1 in NPT	275 cfm	12.45 in	14 ¾ in	—	—	175 °F	4ZM01
3-Piece Filter and Regulator and Mist Lubricator†								
Compact	¼ in NPT	51 cfm	7 7/16 in	6 7/16 in	150 °F	7D695	150 °F	7D696
	⅜ in NPT	51 cfm	7 7/16 in	6 7/16 in	150 °F	7D697	150 °F	7D698
Intermediate	¼ in NPT	56 cfm	8 in	9 ⅛ in	125 °F	7D717	125 °F	7D718
	⅜ in NPT	60 cfm	8 in	9 ⅛ in	175 °F	7D719	175 °F	7D720
	½ in NPT	60 cfm	8 in	9 ⅛ in	175 °F	7D721	175 °F	7D722
Standard	⅜ in NPT	118 cfm	8 13/16 in	10 ½ in	175 °F	7D741	175 °F	7D742
	½ in NPT	192 cfm	8 13/16 in	10 ½ in	175 °F	7D743	175 °F	7D744
	¾ in NPT	186 cfm	8 13/16 in	10 ½ in	175 °F	7D745	—	—
	¾ in NPT	100 cfm	8 13/16 in	10 ½ in	—	—	175 °F	7D746
Heavy-Duty	¾ in NPT	160 cfm	12.45 in	14 ¾ in	—	—	175 °F	4ZM02
	1 in NPT	275 cfm	12.45 in	14 ¾ in	—	—	175 °F	4ZM03

** Regulators and filter/regulators: cfm flow measures with 90 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 90 psig inlet and 5 psig pressure drop. † General purpose filters: cfm based on 100 psig inlet and 5 psig pressure drop. Regulators: cfm flow measures with 100 psig inlet adjusted to a set pressure of 90 psig (while increasing flow) and a 15 psig drop. Lubricators: cfm based on 100 psig inlet and 5 psig pressure drop.*

7D736

SPEEDAIRE®

2- and 3-Pc. Combination Units

- Modular connector allows easy removal and swap out

2-pc. units combine filter/regulator with MicroMist or Mist lubricator. 3-pc. units combine filter, regulator, and MicroMist or Mist lubricators. Include Speed Clamps™, mounting brackets, and pressure gauge. 4ZM01 to 4ZM03 and 4ZL99 do not include mounting bracket or gauge. Some assembly required. For replacement filter elements, see page 2594.

Note: Polycarbonate bowls are not recommended for use in atmospheres containing chemicals such as acetone, benzene, carbon tetrachloride, ethylene dichloride, gasoline, toluene, and/or air compressor systems using synthetic fire-resistant lubricants.

Modular Connectors

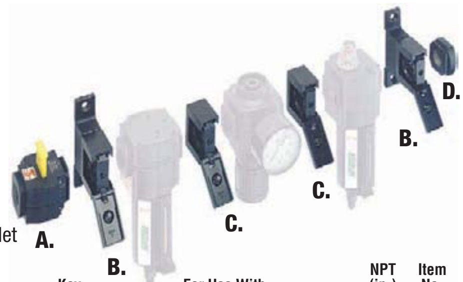
- Allow easy removal and replacement of Speedaire® components

Use Speed Clamps™ instead of pipe nipples to interconnect components.

Modular Pneumatic Lockout Valves—3-way function valves can be padlocked in the closed (vented) position only. Installed in the pressure inlet of pneumatic devices.

Porting Blocks—Provide 3 auxiliary ¼" NPT outlets to pipe high-pressure or nonlubricated air.

Manifold Blocks—Permit 90° attachment of additional system components such as filters, regulators, or pressure switches.



Key	For Use With	NPT (in.)	Item No.
Modular Air Line Lockout Valves			
A	Speedaire Compact	¼ in	4ZM24
A	Speedaire Compact	⅜ in	4ZM25
A	Speedaire Intermediate, Speedaire Standard	¼ in	4ZM26
A	Speedaire Intermediate, Speedaire Standard	⅜ in	4ZM27
A	Speedaire Intermediate, Speedaire Standard	½ in	4ZM28
A	Speedaire Intermediate, Speedaire Standard	¾ in	4ZM29

SPEEDAIRE®

Key	For Use With	NPT (in.)	Item No.
Speed Clamps™ w/Mounting Bracket			
B	Compact	—	4ZK25
B	Intermediate and Standard	—	4ZK36
C	Compact	—	4ZK24
C	Intermediate and Standard	—	4ZK35
Mounting Brackets			
C	Intermediate and Standard (used with No. 4ZK35)	—	4ZK34
Speed Mount Pipe Adapters			
D	Compact	¼ in	4ZK26
D	Intermediate and Standard	¼ in	4ZK37
D	Intermediate and Standard	⅜ in	4ZK38
D	Intermediate and Standard	½ in	4ZK39
D	Intermediate and Standard	¾ in	4ZK40
Porting Blocks (3 NPT Ports)			
—	Compact	¼ in	4ZK28
—	Intermediate and Standard	¼ in	4ZK41
Manifold Blocks (4 NPT Ports)			
—	Compact	⅜ in	4ZK30
—	Intermediate and Standard	¾ in	4ZK43

6B281

2KEG8

Description	Pipe Size	Max. Flow*	Max. Operating Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
Metal								
Jumbo	1½ in NPT	1,050 cfm	150 psi	150 °F	19 1/16 in	7 ¾ in	F35-0B-000	**6B279**
	2 in NPT	1,180 cfm	150 psi	150 °F	19 1/16 in	7 ¾ in	F35-0C-000	**6B278**
Metal with Sight Gauge								
Jumbo	¾ in NPT	260 cfm	200 psi	150 °F	9 ⅞ in	4 13/16 in	F30-06-G00	**6D788**
	1 in NPT	280 cfm	200 psi	150 °F	9 ⅞ in	4 13/16 in	F30-08-G00	**6D789**
Polycarbonate with Guard								
Jumbo	¾ in NPT	260 cfm	150 psi	125 °F	9 ⅞ in	4 13/16 in	F30-06-000	**6B281**
	1 in NPT	280 cfm	150 psi	125 °F	9 ⅞ in	4 13/16 in	F30-08-000	**6B280**
Stainless Steel								
Miniature	¼ in NPT	23 cfm	300 psi	180 °F	4 in	1 9/16 in	SF1-02-SYV0	**2KEG8**
Standard	½ in NPT	70 cfm	300 psi	180 °F	5 9/16 in	2 ⅜ in	SF2-04-SYV0	**2KEG9**

** cfm rating based on 100 psig inlet and 5 psig pressure drop.*

WILKERSON

General Purpose Filters

- High-efficiency 5-micron filtration

Rugged, lightweight construction with high-flow capability and excellent water removal efficiency. Have a positive bayonet bowl latch and barbed manual drain connection with pipe-away.

Note: Models with a polycarbonate bowl should not be located in areas subject to direct sunlight, direct impact, or temperature outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Should not be used where strong acids or bases are present or in salt-laden atmospheres.

For Use With	Includes	Item No.
Air Filter Replacement Kits		
Wilkerson Miniature Filters	Bowl, Bowl Guard, Drain, O-Ring	**1AFE8**
Wilkerson Subcompact Filters	Bowl, Drain, O-Ring	**1AFE9**
Wilkerson Compact Filters	Bowl, Bowl Guard, Drain, O-Ring	**1AFG1**
Wilkerson Standard Filters	Bowl, Bowl Guard, Drain, O-Ring	**1AFG2**

For Use with Stock No.	For Use On	Item No.
Replacement Filter Elements		
3GD30, 6B288, 6B299, 6B306, 6B315, 6D764, 6D771, 6D781	Miniature	**6B225**
2KEG8	Miniature	**2KEJ3**
6B285 to 6B287, 6B296 to 6B298, 6B303 to 6B305, 6B312 to 6B314, 6D756 to 6D758, 6D765 to 6D767, 6D772 to 6D774, 6D782 to 6D784	Compact	**6B233**
6B282 to 6B284, 6B293 to 6B295, 6B300 to 6B302, 6B309 to 6B311, 6D759 to 6D761, 6D768 to 6D770, 6D775 to 6D777, 6D785 to 6D787	Standard	**6B230**
2KEG9	Standard	**2KEJ4**
6B280, 6B281, 6D788, 6D789	Jumbo 30 and 35	**6B252**
6B278, 6B279	Jumbo 30 and 35	**6B249**

5GC16

2KEH5

WILKERSON

General Purpose Regulators

- Accuracy: ±1 psi

2-gauge ports can be used as additional regulated outlet ports. Can be serviced without removal from air line. Dial regulators feature a transparent, pressure-calibrated, nonrising adjustment dial for quick adjustment of secondary pressure, ±1 psi. Can be mounted in any position so dial face is always visible.

WARNING: Do not connect regulator to bottled gas.

Series	Pipe Size	Gauge Port	Max. Flow†	Max. Pressure	Max. Temp.	Adjustment Range*	Overall Height	Overall Width	Brand	Mfr. Model	Item No.
Compressed Air Regulators											
Nonrising Locking											
R03	⅛ in	⅛ in NPT	13 cfm	300 psi	125 °F	5 to 125 psi	3.14 in	1.65 in	Wilkerson	R03-01-000	**4TY38**
	¼ in	⅛ in NPT	22 cfm	300 psi	125 °F	5 to 125 psi	3.14 in	1.65 in	Wilkerson	R03-02-000	**4TY39**
RB3	¼ in	⅛ in NPT	14 cfm	300 psi	125 °F	2 to 125 psi	3.42 in	1.5 in	Wilkerson	RB3-02-F000	**6B216**
Rising											
R30	¾ in	¼ in NPT	470 cfm	300 psi	150 °F	10 to 125 psi	10.3 in	4.3 in	Wilkerson	R30-06-000	**6B207**
	1 in	¼ in NPT	500 cfm	300 psi	150 °F	10 to 125 psi	10.3 in	4.3 in	Wilkerson	R30-08-000	**6B206**
R40	1 ½ in	¼ in NPT	1,200 cfm	300 psi	150 °F	10 to 125 psi	11.9 in	5.3 in	Wilkerson	R40-0B-000	**5GC18**
	2 in	¼ in NPT	1,200 cfm	300 psi	150 °F	10 to 125 psi	11.9 in	5.3 in	Wilkerson	R40-0C-000	**5GC19**
Nonrising Dial											
R21	¼ in	¼ in NPT	117 cfm	300 psi	150 °F	0 to 160 psi	4.1 in	2.6 in	Wilkerson	R21-02-000	**5GC14**
	⅜ in	¼ in NPT	180 cfm	300 psi	150 °F	0 to 160 psi	4.1 in	2.6 in	Wilkerson	R21-03-000	**5GC15**
	½ in	¼ in NPT	195 cfm	300 psi	150 °F	0 to 160 psi	4.1 in	2.6 in	Wilkerson	R21-04-000	**5GC16**
	¾ in	¼ in NPT	220 cfm	300 psi	150 °F	0 to 160 psi	4.1 in	2.6 in	Wilkerson	R21-06-000	**5GC17**
Compressed Air Regulators, 316 Stainless Steel											
Hex											
SR1	¼ in	⅛ in NPT	12 cfm	300 psi	150 °F	0 to 125 psi	2.67 in	1.56 in	Wilkerson	SR1-02-LAS0	**2KEH3**
	¼ in	¼ in NPT	12 cfm	300 psi	150 °F	0 to 60 psi	2.67 in	1.56 in	Wilkerson	SR1-02-KAS0	**2KEH4**
T-Handle											
SR2	½ in	¼ in NPT	80 cfm	300 psi	150 °F	0 to 125 psi	6.08 in	2.34 in	Wilkerson	SR2-04-LAS0	**2KEH5**
	½ in	¼ in NPT	80 cfm	300 psi	150 °F	0 to 60 psi	6.08 in	2.34 in	Wilkerson	SR2-04-KAS0	**2KEH6**

Fits	Brand	Item No.
Mounting Brackets		
Series R03, BB3	Wilkerson	**6B253**
Series F08, M08, B08	Wilkerson	**6B221**
Series R12, B12	Wilkerson	**4RA40**
Series R18	Wilkerson	**6B242**
Series R28	Wilkerson	**6B241**

Connec. Size	Dial Size	Brand	Item No.
Commercial Pressure Gauges			
⅛ in NPT	1 ½ in	—	**4FLZ8**
¼ in NPT	2 in	—	**4FMC7**

For Use with Model No.	Brand	Item No.
Panel-Mounting Nut		
6B211, 6B212, 6B213, 6B312, 6B313, 6D756, 6D757, 6D758	Wilkerson	**5WRU4**
B08-02-FK00, B08-02-FL00, R08-02-F000	Wilkerson	**5WRU3**
B28-03-FK00, B28-03-FL00, B28-04-FK00, B28-04-FL00, B28-06-FK00, R28-03-F000, R28-04-F000, R28-06-F000	Wilkerson	**5WRU5**
R03-01-000, R03-02-000	Wilkerson	**5WRU2**
Series R12	Wilkerson	**4RA41**

*† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop. * The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.*

6B257

WILKERSON®

Oil Removal (Coalescing) Filters

Eliminate 99.9% or more of water and oil liquid aerosols and submicron particles.

Note: For maximum life, use in conjunction with a 5-micron element.

Item	Fits	Mfr. Model	Item No.
Mounting Brackets			
Mounting Bracket	Series F08, M08, B08	GPA-97-010	**6B221**
Mounting Bracket	C Bracket	GPA-96-300	**4RA39**
Wall Mounting Bracket	Series F18, M18	GPA-96-604	**6B244**
Wall Mounting Bracket	Series F28, M28	GPA-96-605	**6B243**
Automatic Drains			
Drain Piston	Series F08, M08	GRP-96-716	**6B227**
Automatic Float Drain	Series F18, F28, F30, B18, B28, M18, M28, M30	GRP-95-973	**6B251**
Replacement Filter Elements			
Coalescing Filter Element	Series M08	MSP-96-732	**6B224**
Coalescing Filter Element	Series M18	MSP-96-647	**6B232**
Coalescing Filter Element	Series M28	MSP-96-649	**6B231**
Coalescing Filter Element	Series M30	N17-95-992	**6B248**
Coalescing Filter Element	Series M35	MSP-95-502	**6B250**
Compressed Air Filter Element	Series SM1	SRP-96-005	**2KEJ5**
Compressed Air Filter Element	Series SM2	SRP-96-006	**2KEJ6**
Compressed Air Filter Element	Compressed Air Filter Element	MXP-96-650	**44C985**
Compressed Air Filter Element	Compressed Air Filter Element	MXP-95-532	**44C870**
Compressed Air Filter Element	Compressed Air Filter Element	MXP-95-502	**44C991**
Compressed Air Filter Element	Compressed Air Filter Element	MTP-96-646	**44C950**
Compressed Air Filter Element	Compressed Air Filter Element	MTP-96-648	**44C951**
Compressed Air Filter Element	Compressed Air Filter Element	MTP-95-551	**44C850**
Compressed Air Filter Element	Compressed Air Filter Element	MTP-95-502	**44C981**

Description	Pipe Size	Max. Flow*	Max. Pressure	Max. Temp.	Filter Rating	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate with Guard									
Jumbo	¾ in NPT	140 cfm	150 psi	125 °F	0.01 micron	10 ⅞ in	4 13⁄16 in	M30-06-S00	**6B257**
	1 in NPT	160 cfm	150 psi	125 °F	0.01 micron	10 ⅞ in	4 13⁄16 in	M30-08-S00	**6B256**
Metal									
Jumbo	¾ in NPT	140 cfm	200 psi	150 °F	0.5 micron	10 ½ in	4 13⁄16 in	M30-06-M00	**6D812**
	1 in NPT	160 cfm	200 psi	150 °F	0.5 micron	10 ½ in	4 13⁄16 in	M30-08-M00	**6D813**
	1½ in NPT	445 cfm	150 psi	150 °F	0.01 micron, 1 micron	19 1⁄16 in	7 ¾ in	M35-0B-S00	**6B255**
	2 in NPT	445 cfm	150 psi	150 °F	0.01 micron, 1 micron	19 1⁄16 in	7 ¾ in	M35-0C-S00	**6B254**
Stainless Steel									
Miniature	¼ in NPT	16 cfm	300 psi	180 °F	0.3 micron	4 in	1 9⁄16 in	SM1-02-EYV0	**2KEH1**
Standard	½ in NPT	46 cfm	300 psi	180 °F	0.3 micron	5 9⁄16 in	2 ⅜ in	SM2-04-EYV0	**2KEH2**

** cfm rating based on 100 psig inlet and 1 psig pressure drop.*

WILKERSON®

Piggyback Air Line Filter/Regulators

- 5-micron filter element
- Polycarbonate bowl: 125°F max. temp.; metal bowl: 150°F max. temp.

WARNING: Product rupture can cause serious injury. Do not connect regulator to bottled gas. Note: Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow†	Max. Operating Pressure	Adjustment Range	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate								
Brass Miniature	¼ in NPT	16 cfm	150 psi	5 to 125 psi	6 ¼ in	1 9⁄16 in	BB3-02-FK00	**3RA90**
Stainless Steel								
Miniature	¼ in NPT	12 cfm	300 psi	0 to 125 psi	5 13⁄16 in	1 9⁄16 in	SB1-02-LYSS	**2KEH7**
	¼ in NPT	12 cfm	300 psi	0 to 60 psi	5 13⁄16 in	1 9⁄16 in	SB1-02-KYSS	**2KEH8**
Standard	½ in NPT	72 cfm	300 psi	0 to 125 psi	8 ⅝ in	2 ½ in	SB2-04-LYSS	**2KEH9**
	½ in NPT	72 cfm	300 psi	0 to 60 psi	8 ⅝ in	2 ½ in	SB2-04-KYSS	**2KEJ1**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop.

Fits	Mfr. Model	Brand	Item No.
Automatic Drains			
Series F08, M08	GRP-96-716	Wilkerson	**6B227**
Series F18, F28, F30, B18, B28, M18, M28, M30	GRP-95-973	Wilkerson	**6B251**
Mounting Brackets			
Series R03, BB3	GRP-95-147	Wilkerson	**6B253**
Series F08, M08, B08	GPA-97-010	Wilkerson	**6B221**
Series R12, B12	GPA-96-313	Wilkerson	**4RA40**
Series F18, M18	GPA-96-604	Wilkerson	**6B244**
Series F28, M28	GPA-96-605	Wilkerson	**6B243**
Replacement Filter Elements			
Series B0B	FRP-96-729	Wilkerson	**6B225**
Series B1B	FRP-96-639	Wilkerson	**6B233**
Series B2B	FRP-96-653	Wilkerson	**6B230**
Series BB3	FRP-96-806	Wilkerson	**1WXB4**

3RA90

6B227

Connection Size	Dial Size	Brand	Item No.
Commercial Pressure Gauges			
⅛ in	1 ½ in	—	**4FLZ8**
¼ in	2 in	—	**4FMC7**

WILKERSON®

In-Line Lubricators

- Polycarbonate bowl: 150 max. input psi; 125°F max. temp.
- Metal bowl: 250 max. input psi (except jumbo units are 200 max. input psi); 150°F max. temp.

Install unit close to the application to ensure effective oil distribution.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperatures outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Do not use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc. Should not be used where acids or bases are present or in salt-laden atmospheres.

Series	Pipe Size	Max. Flow*	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate w/Guard						
L30	¾ in NPT	196 cfm	10 ⅜ in	4 ⅝ in	L30-06-000	**6B268**
	1 in NPT	374 cfm	10 ⅜ in	4 ⅝ in	L30-08-000	**6B267**
L40	1½ in NPT	927 cfm	11 11⁄16 in	4 13⁄16 in	L40-0B-000	**5GC10**
L50	2 in NPT	1,186 cfm	12 5⁄16 in	5 in	L50-0C-000	**5GC11**
Metal w/Sight Gauge						
L30	¾ in NPT	196 cfm	10 15⁄16 in	4 ⅝ in	L30-06-G00	**6D801**
	1 in NPT	374 cfm	10 15⁄16 in	4 ⅝ in	L30-08-G00	**6D802**
Stainless Steel						
SL2	½ in NPT	100 cfm	7 ⅝ in	2 ⅜ in	SL2-04-LLV0	**2KEJ2**

** cfm rating based on 100 psig inlet and 5 psig pressure drop.*

For Use With	Mfr. Model	Item No.
Air Line Lubricator Polycarbonate Bowl Replacement Kits		
Wilkerson Miniature Lubricators	LRP-96-736	**1AFG3**
Wilkerson Subcompact Lubricators	LRP-96-308	**1AFG4**
Wilkerson Compact Lubricators	LRP-96-701	**1AFG5**
Wilkerson Standard Lubricators	LRP-96-702	**1AFG6**

6B268

55CP81

2- and 3-Pc. Combination Units

WILKERSON

- Remove particulate and water down to 5 microns
- Max. pressure: 150 psi (polycarbonate bowl), 250 psi (metal bowl)
- Max. temp.: 125°F (polycarbonate bowl), 150°F (metal bowl)

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
2 Pcs. Metal					
¼ in NPT	28 cfm	6 15/16 in	3 ⅛ in	D08-02-FLG0B	**55CR03**
2 Pcs. Metal with Sight Gauge					
¼ in NPT	45 cfm	10 5/16 in	5 1/16 in	D18-02-FLG0B	**55CR04**
⅜ in NPT	70 cfm	10 5/16 in	5 1/16 in	D18-03-FLG0B	**55CR05**
	112 cfm	11 7/16 in	6 ⅛ in	D28-03-FLG0B	**55CR07**
½ in NPT	90 cfm	10 5/16 in	5 1/16 in	D18-04-FLG0B	**55CR06**
	112 cfm	11 7/16 in	6 ⅛ in	D28-04-FLG0B	**55CR08**
¾ in NPT	150 cfm	11 7/16 in	6 ⅛ in	D28-06-FLG0B	**55CR09**
2 Pcs. Polycarbonate with Guard					
¼ in NPT	28 cfm	6 15/16 in	3 ⅛ in	D08-02-FKG0B	**55CP87**
	45 cfm	10 5/16 in	5 1/16 in	D18-02-FKG0B	**55CP86**
⅜ in NPT	70 cfm	10 5/16 in	5 1/16 in	D18-03-FKG0B	**55CP85**
	112 cfm	11 7/16 in	6 ⅛ in	D28-03-FKG0B	**55CP83**
½ in NPT	90 cfm	10 5/16 in	5 1/16 in	D18-04-FKG0B	**55CP84**
	112 cfm	11 7/16 in	6 ⅛ in	D28-04-FKG0B	**55CP82**
¾ in NPT	150 cfm	11 7/16 in	6 ⅛ in	D28-06-FKG0B	**55CP81**
3 Pcs. Metal					
¼ in NPT	27 cfm	6 5/16 in	4 ¾ in	C08-02-FLG0B	**55CP95**

Two-piece design integrates filter/regulator and lubricator into a single unit. Three-piece design combines filter, regular, and lubricator. Units with a metal bowl and sight gauge provide visibility into the bowl. Units with a polycarbonate bowl have a guard with multiple viewing slots into the bowl. For replacement filter elements, see pages 2596, 2597.

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
3 Pcs. Metal with Sight Gauge					
¼ in NPT	42 cfm	9 in	7 13/16 in	C18-02-FLG0B	**55CP96**
⅜ in NPT	70 cfm	9 in	7 13/16 in	C18-03-FLG0B	**55CP97**
	90 cfm	9 ⅜ in	9 5/16 in	C28-03-FLG0B	**55CP99**
½ in NPT	85 cfm	9 in	7 13/16 in	C18-04-FLG0B	**55CP98**
	90 cfm	9 ⅜ in	9 5/16 in	C28-04-FLG0B	**55CR01**
¾ in NPT	112 cfm	9 ⅜ in	9 5/16 in	C28-06-FLG0B	**55CR02**
3 Pcs. Polycarbonate with Guard					
¼ in NPT	27 cfm	6 5/16 in	4 ¾ in	C08-02-FKG0B	**55CP94**
	42 cfm	9 in	7 13/16 in	C18-02-FKG0B	**55CP93**
⅜ in NPT	70 cfm	9 in	7 13/16 in	C18-03-FKG0B	**55CP92**
	90 cfm	9 ⅜ in	9 5/16 in	C28-03-FKG0B	**55CP90**
½ in NPT	85 cfm	9 in	7 13/16 in	C18-04-FKG0B	**55CP91**
	90 cfm	9 ⅜ in	9 5/16 in	C28-04-FKG0B	**55CP89**
¾ in NPT	112 cfm	9 ⅜ in	9 5/16 in	C28-06-FKG0B	**55CP88**

6B218

45LV68

6B245

WILKERSON

Modular Accessories for 2- and 3-Pc. Combination Units

Manually operated. In the closed position, downstream air is exhausted into the atmosphere. May be locked in closed position using a padlock (not included). Max. temp.: 176°F.

Item	NPT (in.)	Brand	Item No.	
Modular Accessories, Series 08				
Modular Unit Connector	—	Wilkerson	**6B222**	
Modular Mounting Bracket	—	Wilkerson	**6B223**	
End Block Connector	¼ in	Wilkerson	**6B220**	
End Block Connecting Set	¼ in	Wilkerson	**6B218**	*
Air Line Lockout Valve	¼ in	Wilkerson	**45LV70**	
End Block Connector	⅜ in	Wilkerson	**6B219**	
Modular Accessories, Series 12 Sub Compact				
Mounting Bracket	—	Wilkerson	**4RA38**	
Modular Unit Connector	—	Wilkerson	**4RA35**	
Modular Accessories, Series 18				
Air Line Lockout Valve	⅜ in	Wilkerson	**45LV69**	
Air Line Lockout Valve	½ in	Wilkerson	**45LV68**	
Modular Accessories, Series 18 and 28				
Mounting T-Bracket	—	Wilkerson	**6B245**	
Mounting T-Bracket	—	Wilkerson	**6B246**	
Joiner Set	—	Wilkerson	**6B247**	
End Block Connector	¼ in	Wilkerson	**6B238**	
End Block Connector	⅜ in	Wilkerson	**6B237**	
End Block Connector	½ in	Wilkerson	**6B236**	
End Block Connector	¾ in	Wilkerson	**6B235**	
Modular Accessories, Series 28				
Air Line Lockout Valve	½ in	Wilkerson	**45LV67**	
Air Line Lockout Valve	¾ in	Wilkerson	**45LV66**	

Connection Size	Connection Type	Dial Size	Brand	Item No.
Commercial Pressure Gauges				
⅛ in	MNPT	1 ½ in	—	**4FLZ8**
¼ in	MNPT	2 in	—	**4FMC7**

** Includes 2 end-block connectors, mounting brackets, and joiner sets.*

21U837

Parker

General Purpose Filters

- Remove impurities down to 5 microns

Feature a heavy-duty bowl with sight glass, manual drain, and a larger surface area for longer life. Heavy-duty units come with an automatic drain.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperature outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow*	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
Die-Cast Zinc								
Compact	⅜ in NPT	80 cfm	250 psi	175 °F	6 ¼ in	2 13/16 in	06F24BC	**21U802**
	½ in NPT	85 cfm	250 psi	175 °F	6 ¼ in	2 13/16 in	06F34BC	**21U803**
Standard	½ in NPT	130 cfm	250 psi	175 °F	7 11/16 in	3 ¼ in	07F34BC	**21U822**
	¾ in NPT	145 cfm	250 psi	175 °F	7 11/16 in	3 ¼ in	07F44BC	**21U823**
Heavy-Duty	¾ in NPT	270 cfm	175 psi	150 °F	8 ¾ in	4 ⅞ in	F602-06WGR/M4	**21U836**
	1 in NPT	300 cfm	175 psi	150 °F	8 ¾ in	4 ⅞ in	F602-08WGR/M4	**21U837**
	1½ in NPT	450 cfm	175 psi	150 °F	9 7/16 in	4 ⅞ in	F602-12WGR/M4	**21U839**

For Use with Stock No.	Item No.
Replacement Filter Elements	
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799,	**21U850**
21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808	**21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827	**21U868**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,	**21U865** **21U869**
Mounting Brackets	
06F14BC, 06F24BC, 06F34BC, 16L14BE, 16L24BE, 16L34BE	**21U854**
07F34BC, 07F44BC, 17L34BE, 17L44BE	**21U857**
Metal Bowl Kits	
06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 16A14B18A4BC,	**21U853**
16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC	**21U852**
07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U859**
07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U860**
C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR, F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4	**21U863**
Automatic Drains	
06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	**21U849**
C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR, F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4	**21U864**

** cfm rating based on 100 psig inlet and 5 psig pressure drop.*

Parker

Nonrising Knob Regulators

Suitable for use where regulators are not easily accessible. Ideal for use in applications requiring a constant pressure with variable flow rate.

WARNING: Do not connect regulator to bottled gas.

Series	Pipe Size	Gauge Port	Max. Flow†	Max. Pressure	Max. Temp.	Adjustment Range*	Overall Height	Overall Width	Brand	Mfr. Model	Item No.
06R	¼ in	¼ in NPT	53 cfm	250 psi	175 °F	0 to 125 psi	6.08 in	2.84 in	Parker	06R118AC	**21U810**
	⅜ in	¼ in NPT	60 cfm	250 psi	175 °F	0 to 125 psi	6.08 in	2.84 in	Parker	06R218AC	**21U811**
	½ in	¼ in NPT	75 cfm	250 psi	175 °F	0 to 125 psi	6.08 in	2.84 in	Parker	06R318AC	**21U812**
07R	½ in	¼ in NPT	90 cfm	250 psi	175 °F	0 to 125 psi	6.4 in	3.24 in	Parker	07R318AC	**21U828**
	¾ in	¼ in NPT	90 cfm	250 psi	175 °F	0 to 125 psi	6.4 in	3.24 in	Parker	07R418AC	**21U829**
R119	½ in	¼ in NPT	150 cfm	300 psi	125 °F	0 to 125 psi	6.76 in	3.56 in	Parker	R119-04CG	**21U840**
	¾ in	¼ in NPT	300 cfm	300 psi	125 °F	0 to 125 psi	10.02 in	4.69 in	Parker	R119-06CG/M2	**21U841**
	1 in	¼ in NPT	400 cfm	300 psi	125 °F	0 to 125 psi	10.02 in	4.69 in	Parker	R119-08CG/M2	**21U842**
	1 ½ in	¼ in NPT	500 cfm	300 psi	125 °F	0 to 125 psi	10.34 in	4.94 in	Parker	R119-12CG/M2	**21U844**

*† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop. * The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.*

Fits	Brand	Item No.
Mounting Brackets		
06F, 06E, 06A, 06G, 06R, 16A, 16G	Parker	**21U851**
07A, 07E, 07G, 07R, 17A, 17G	Parker	**21U858**
C628, R119	Parker	**21U862**

Connec. Size	Dial Size	Brand	Item No.
Commercial Pressure Gauges			
⅛ in NPT	1 ½ in	—	**4FLZ8**
¼ in NPT	2 in	—	**4FMC7**

21U812

21U842

21U820

21U853

Parker

Piggyback Air Line Filter/Regulators

- 5-micron filter element
- Metal bowl/sight glass
- 150°F max. temp.
- Adjustment range: 0 to 125 psi

Compact units are made of die-cast zinc.

WARNING: Product rupture can cause serious injury. Do not connect regulator to bottled gas. Note: Should not be used where strong acids or bases are present or in salt-laden atmospheres.

Pipe Size	Max. Flow†	Max. Pressure	Overall Height	Overall Width	Mfr. Model	Item No.
½ in NPT	61 cfm	250 psi	10 ⅜ in	2 13/16 in	06E34B18AC	**21U799**
	90 cfm	250 psi	11 ¾ in	3 ¼ in	07E34B18AC	**21U820**
¾ in NPT	90 cfm	250 psi	11 ¾ in	3 ¼ in	07E44B18AC	**21U821**

† cfm flow measured with 100 psig inlet adjusted to a set pressure of 90 psig and a 15 psig pressure drop.

Fits	Includes	Mfr. Model	Item No.
Automatic Drains			
06A, 06E, 06F, 06G, 07A, 07E, 07F, 07G	Automatic Drain, Mounting Nut, O-Ring	PS506P	**21U849**
Metal Bowl Kits			
06A, 06E, 06F, 06G	Metal Bowl and Automatic Drain	PS726P	**21U852**
	Manual Drain, Metal Bowl, Sight Glass	PS735P	**21U853**
07A, 07E, 07F, 07G	Automatic Drain, Metal Bowl, Sight Glass	PS823P	**21U859**
	Manual Drain, Metal Bowl, Sight Glass	PS835P	**21U860**
Mounting Brackets			
06F, 06E, 06A, 06G, 06R, 16A, 16G	Panel Nut	PS707P	**21U851**
07A, 07E, 07G, 07R, 17A, 17G	Panel Nut	PS807P	**21U858**
Replacement Filter Elements			
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808		PS701P	**21U850**
		PS702P	**21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827		PS801P	**21U856**
		PS802P	**21U868**

21U813

21U845

21U866

Parker

In-Line Lubricators

- 250 max. input psi; 150°F max. temp.

Install close to the application to ensure effective oil distribution. Zinc bowl.

Note: Should not be located in areas subject to direct sunlight, direct impact, or temperatures outside rated range. Incompatible with chlorinated hydrocarbons, ketones, esters, and certain alcohols. Not for use in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester or diester. Do not use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc. Should not be used where acids or bases are present or in salt-laden atmospheres.

Description	Pipe Size	Max. Flow*	Overall Height	Overall Width	Mfr. Model	Item No.
Zinc						
Micromist	¼ in NPT	40 cfm	7 13/16 in	2 ¾ in	16L14BE	**21U813**
	⅜ in NPT	60 cfm	7 13/16 in	2 ¾ in	16L24BE	**21U814**
	½ in NPT	90 cfm	7 13/16 in	2 ¾ in	16L34BE	**21U815**
	½ in NPT	90 cfm	9 1/16 in	3 ¼ in	17L34BE	**21U830**
	¾ in NPT	90 cfm	9 1/16 in	3 ¼ in	17L44BE	**21U831**
Mist	¾ in NPT	325 cfm	9 ⅞ in	5 in	L606-06W/M8	**21U845**
	1 in NPT	350 cfm	9 ⅞ in	5 in	L606-08W/M8	**21U846**
	1½ in NPT	400 cfm	10 ½ in	4 15/16 in	L606-12W/M8	**21U848**

Fits	Mfr. Model	Item No.
Metal Bowl Kits		
16A, 16G, 16L	PS729P	**21U855**
C628, L606	BK609WB	**21U866**
07A, 07G, 07L, 17A, 17G, 17L	PS829P	**21U861**
Mounting Brackets		
06F, 16A, 16G, 16L	PS743P	**21U854**
07F, 17A, 17G, 17L	PS843P	**21U857**

** cfm rating based on 100 psig inlet and 5 psig pressure drop.*

General Line
21U833

2- and 3-Pc. Combination Units

Parker

- 5-micron particulate filter
- Max. pressure: 250 psi
- Max. temp.: 175°F, except 21U832 to 21U835 are 150°F

Feature either a manual or automatic drain to remove collected water from filter bowl. Provide long life and accurate pressure regulation. Units have die-cast zinc bowl and included gauge. Easy to install in most pneumatic systems. Metal bowl kits available on Grainger.com®.

Pipe Size	Drain Type	Max. Flow	2-PC. Overall Height	2-PC. Overall Width	2-PC. Mfr. Model	2-PC. Item No.	3-PC. Overall Height	3-PC. Overall Width	3-PC. Mfr. Model	3-PC. Item No.
Prep Air II										
½ in NPT	Manual	90 cfm	10 ⅜ in	6 ⅛ in	16G34B18A4BC	**21U806**	7 15⁄16 in	9 7⁄16 in	16A34B18A4BC	**21U793**

Pipe Size	Max. Flow	Overall Height	Overall Width	Mfr. Model	Item No.
General Line Automatic Drain, 3-Piece					
¾ in NPT	325 cfm	13 in	15 ¾ in	C628-06FRLWGCWR	**21U832**
1 in NPT	350 cfm	13 in	15 ¾ in	C628-08FRLWGCWR	**21U833**
1½ in NPT	400 cfm	13 in	16 ½ in	C628-12FRLWGCWR	**21U835**
Parker Watts Automatic Drain, 3-Piece					
½ in NPT	90 cfm	13 in	10 9⁄16 in	C628-04FRL8ACA4B	**19PK09**

For Use with Stock No.	Includes	Item No.
Automatic Drains		
06E14B18AC, 06E24B18AC, 06E34B18AC, 06F14BC, 06F24BC, 06F34BC, 07E34B18AC, 07E44B18AC, 07F34BC, 07F44BC, 16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD	Automatic Drain, Mounting Nut, O-Ring	**21U849**
C628-06FRLWGCWR, C628-08FRLWGCWR, C628-10FRLWGCWR, C628-12FRLWGCWR, F602-06WGR/M4, F602-08WGR/M4, F602-10WGR/M4, F602-12WGR/M4		**21U864**
Metal Bowl Kits		
21U830, 21U831	Manual Drain, Metal Bowl, Sight Glass	**21U861**
Mounting Brackets		
06E14B18AC, 06E24B18AC, 06E34B18AC, 06R118AC, 06R218AC, 06R318AC, 16A14B18A4BC, 16A18B18A4BC, 16A24B18A4BC, 16A28B18A4BC, 16A34B18A4BC, 16A38B18A4BC, 16G14B18A4BC, 16G18B18A4BC, 16G24B18A4BC, 16G28B18A4BC, 16G34B18A4BC, 16G38B18A4BC	Panel Nut	**21U851**
07E34B18AC, 07E44B18AC, 07R318AC, 07R418AC, 17A34B18A4BD, 17A38B18A4BD, 17A44B18A4BD, 17A48B18A4BD, 17G34B18A4BD, 17G38B18A4BD, 17G44B18A4BD, 17G48B18A4BD		**21U858**
R119-06CG/M2, R119-08CG/M2, R119-10CG/M2, R119-12CG/M2	Mounting Bracket	**21U862**
Filter Element Kits		
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808	—	**21U850**
21U791, 21U792, 21U793, 21U794, 21U795, 21U796, 21U797, 21U798, 21U799, 21U801, 21U802, 21U803, 21U804, 21U805, 21U806, 21U807, 21U808		**21U867**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827		**21U856**
21U816, 21U817, 21U818, 21U819, 21U820, 21U821, 21U822, 21U823, 21U824, 21U825, 21U826, 21U827		**21U868**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,		**21U865**
21U832, 21U833, 21U834, 21U835, 21U836, 21U837, 21U838, 21U839,		**21U869**

4HEW1

Parker

In-Line Disposable Air Filters

- ¼" tube size
- Pkg. qty.: 10

Miniature filters remove particulate and trace liquid contaminants. Ideal for filtering samples to analyzers, controls, and instrumentation. Has microfibre fitler media.

Bowl Material	Includes	Overall Width	Overall Width	Max. Flow	Max. Temp.	Item No.
0.003 oz. Bowl Size						
Kynar	—	1.0 in	1.0 in	6.3 cfm	275 °F	**4HEU9**
	—	1.0 in	1.0 in	10.1 cfm	275 °F	**4HEV1**
Nylon	—	1.0 in	1.0 in	6.3 cfm	230 °F	**4HEV4**
	—	1.1 in	1.1 in	6.3 cfm	230 °F	**4HEW1**
	Oil Indicator	1.0 in	1.0 in	6.3 cfm	230 °F	**4HEU8**
	—	1.0 in	1.0 in	10.1 cfm	230 °F	**4HEV5**
	—	1.1 in	1.1 in	10.1 cfm	230 °F	**4HEW2**

Bowl Material	Includes	Overall Width	Overall Width	Max. Flow	Max. Temp.	Item No.
0.005 oz. Bowl Size						
Kynar	—	1.3 in	1.3 in	7.3 cfm	275 °F	**4HEV2**
	—	1.3 in	1.3 in	14.6 cfm	275 °F	**4HEV3**
Nylon	—	1.3 in	1.3 in	7.3 cfm	230 °F	**4HEV6**
	Drain Port	2.1 in	2.1 in	7.3 cfm	230 °F	**4HEV9**
	—	1.3 in	1.3 in	14.6 cfm	230 °F	**4HEV7**
	Drain Port	2.1 in	2.1 in	14.6 cfm	230 °F	**4HEV8**

Low-Flow
3NA77

Low- and High-Flow Precision Regulators

ARO

- Accuracy: ±0.1%
- Max. input pressure: 150 psi (low-flow); 400 psi (high-flow)
- Max. temp.: 150°F

Can be panel-mounted or supported by in-line plumbing. Rugged die-cast and aluminum housings have vinyl-painted finish.

Pipe Size	Adjustment Range	Max. Flow	Overall Length	Overall Height	Overall Width	Item No.
Low-Flow						
¼ in	2 to 25 psi	14 cfm	2.13 in	4.25 in	2.13 in	**3NA78**
	2 to 60 psi	14 cfm	2.13 in	4.25 in	2.13 in	**3NA77**
⅜ in	2 to 25 psi	14 cfm	2.13 in	4.25 in	2.13 in	**3NA80**
	2 to 60 psi	14 cfm	2.13 in	4.25 in	2.13 in	**3NA79**
Mounting Bracket for Low-Flow						
—	—	—	3"	1.8"	2.5"	**1XWU3**

Pipe Size	Adjustment Range	Max. Flow	Overall Length	Overall Height	Overall Width	Item No.
High-Flow						
⅜ in	0 to 30 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA82**
	0 to 60 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA81**
½ in	0 to 30 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA84**
	0 to 60 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA83**
¾ in	0 to 30 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA86**
	0 to 60 psi	200 cfm	3.63 in	7.25 in	3.63 in	**3NA85**
Mounting Bracket for High-Flow						
—	—	—	—	—	—	**1XWU2**

3FET1

Parker

Electric Pressure Sensors

- Temp. range: -4° to 184°F
- Port size: 7⁄16-20 UNF 2-B (SAE4)

Can be used for both pneumatic and hydraulic systems.

Max. Pressure (psi)	Adjustment Range (psi)	Mfr. Model	Item No.
100	-14.7 to 100	SCPSD-0100P-1727	**3FET1**
250	-14.7 to 250	SCPSD-0250P-1727	**3FET2**
1000	0 to 1000	SCPSD-1000P-1727	**3FET3**
3000	0 to 3000	SCPSD-3000P-1727	**3FET4**
5000	0 to 5000	SCPSD-5000P-1727	**3FET5**
9000	0 to 9000	SCPSD-9000P-1727	**3FET6**

49XW51

Ingersoll Rand

Compressor Regulators

Include inlet and system pressure gauges and locking adjustment knobs.

Pipe Size	Max. Flow	Max. Inlet Pressure	Adjustment Range	Overall Length	Overall Height	Overall Width	Item No.
½ in	75 cfm	300 psi	0 to 160 psi	7.38 in	7.28 in	8.11 in	**49XW51**
1 in	200 cfm	300 psi	0 to 160 psi	7.38 in	7.28 in	8.11 in	**49XW52**
2 in	1,000 cfm	300 psi	0 to 160 psi	7.38 in	7.28 in	8.11 in	**49XW53**

General Purpose Filters

ARO®

Help extend air tool service life when installed upstream from the regulator and lubricator. Protect against contamination by rust, scale, condensed water, and other debris.

Pipe Size	Max. Flow	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.	Compressed Air Filter Element Mfr. Model	Compressed Air Filter Element Item No.
Polycarbonate									
¼" NPT	49 cfm	150 psi	125 °F	4 5/16 in	1 13/16 in	F35121-400	**4PJD5**	104295	**4PJP9**
⅜" NPT	107 cfm	150 psi	125 °F	6 3/16 in	2 ¼ in	F35231-400	**4PJD7**	104422	**4PJR1**
½" NPT	197 cfm	150 psi	125 °F	7 1/16 in	2 ⅞ in	F35341-400	**4PJD9**	104317	**4PJT5**
Metal with Sight Gauge									
½" NPT	197 cfm	250 psi	175 °F	7 1/16 in	2 ⅞ in	F35341-410	**4PJE6**	104317	**4PJT5**
¾" NPT	216 cfm	250 psi	175 °F	7 1/16 in	2 ⅞ in	F35351-410	**4PJE7**	104317	**4PJT5**
¾" NPT	288 cfm	250 psi	175 °F	9 15/16 in	3 ⅞ in	F35451-410	**4PJE8**	104445	**4PJT6**
1" NPT	353 cfm	250 psi	175 °F	9 15/16 in	3 ⅞ in	F35461-410	**4PJE9**	104445	**4PJT6**

4PJE9

General Purpose Regulators and Accessories

ARO®

- Pressure range: 0 to 140 psi
- Include gauge

Provide controlled, consistent air pressure.

Pipe Size	Max. Flow	Adjustment Range	Overall Height	Overall Width	Series	Mfr. Model	Item No.	Mounting Bracket Mfr. Model	Mounting Bracket Item No.
¼ in	59 cfm	0 to 140 psi	3.5 in	1.63 in	1000	R37121-600	**6CRL8**	104403	**6CRP3**
⅜ in	113 cfm	0 to 140 psi	4.81 in	2.25 in	1500	R37231-600	**6CRL9**	104404	**6CRP4**
½ in	210 cfm	0 to 140 psi	5.5 in	2.75 in	2000	R37341-600	**6CRN0**	104405	**6CRP5**
1 in	290 cfm	0 to 140 psi	7.25 in	3.5 in	3000	R37461-600	**6CRN2**	104406	**6CRP6**

6CRN0

In-Line Lubricators

ARO®

Distribute oil effectively to lubricate pneumatic devices.

Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Series	Mfr. Model	Item No.
Polycarbonate with Guard							
¼ in NPT	51 cfm	150 psi	5 1/16 in	1 9/16 in	1000	L36121-100	**4PJH5**
⅜ in NPT	105 cfm	150 psi	6 in	2 3/16 in	1500	L36231-100	**4PJH7**
Metal with Sight Glass							
½ in NPT	156 cfm	250 psi	7 3/16 in	2 ¾ in	2000	L36341-110	**4PJJ5**
¾ in NPT	368 cfm	250 psi	10 ⅛ in	3 9/16 in	3000	L36451-110	**4PJJ7**
1 in NPT	328 cfm	250 psi	10 ⅛ in	3 9/16 in	3000	L36461-110	**4PJJ8**

4PJH5

Air Line Filter/Regulators

ARO®

- Include gauge

Designed to remove airborne solid and liquid contaminants. Regulators also provide controlled, consistent air pressure.

Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Mfr. Model	Item No.
Polycarbonate						
¼ in NPT	47 cfm	150 psi	6 3/16 in	1 9/16 in	P39124-600	**6CRN3**
⅜ in NPT	90 cfm	150 psi	8 3/16 in	2 ¼ in	P39234-600	**6CRN4**
½ in NPT	172 cfm	150 psi	10 in	2 ¾ in	P39344-600	**6CRN5**
Metal with Sight Glass						
½ in NPT	173 cfm	250 psi	10 1/16 in	2 ¾ in	P39344-610	**6CRN6**
¾ in NPT	236 cfm	250 psi	13 11/16 in	3 9/16 in	P39454-610	**6CRN7**
1 in NPT	250 cfm	250 psi	13 11/16 in	3 9/16 in	P39464-610	**6CRN8**

6CRN3

2- and 3-Pc. Combination Filter, Regulator, and Lubrication Units

ARO®

- Include gauge

All units come preassembled. Compressed air filters are designed to remove airborne solid and liquid contaminants. Regulators provide controlled, consistent air pressure. Lubricators help ensure that pneumatic devices receive the required lubrication.

Pipe Size	Max. Flow	Overall Height	Overall Width	Bowl Material	Mfr. Model	Item No.
2-Pc. Filter/Regulator/Lubricator						
¼ in NPT	44 cfm	6 3/16 in	3 ⅛ in	Polycarbonate	C38121-600	**4PJL4**
¼ in NPT	58 cfm	8 3/16 in	4 7/16 in	Polycarbonate	C38221-600	**4PJL5**
⅜ in NPT	71 cfm	8 3/16 in	4 7/16 in	Polycarbonate	C38231-600	**4PJL6**
½ in NPT	120 cfm	9 15/16 in	5 ¾ in	Polycarbonate	C38341-600	**4PJL8**
½ in NPT	120 cfm	9 15/16 in	5 ¾ in	Metal	C38341-610	**4PJN4**
¾ in NPT	201 cfm	9 15/16 in	7 5/16 in	Metal with Sight Glass	C38451-610	**6CRN9**
1 in NPT	208 cfm	13 ⅝ in	7 5/16 in	Metal with Sight Glass	C38461-610	**6CRP0**
3-Pc. Filter/Regulator/Lubricator						
½ in NPT	150 cfm	9 15/16 in	8 11/16 in	Polycarbonate	C38341-800	**4PJP1**
½ in NPT	150 cfm	9 15/16 in	8 ⅝ in	Metal	C38341-810	**4PJP6**
¾ in NPT	199 cfm	13 ⅝ in	11 ⅛ in	Metal with Sight Glass	C38451-810	**6CRP1**
1 in NPT	215 cfm	13 ⅝ in	11 ⅛ in	Metal with Sight Glass	C38461-810	**6CRP2**

2-Pc. 4PJL4

3-Pc. 6CRP2

ARO®

Accessories for Filters, Regulators, and Lubricators

Item	NPT (in.)	Item No.
1000 Series		
Air Line Lockout Valve	¼ in	**4PJU2**
Mounting Clamp	—	**4PJR6**
Mounting Modular Clamp	—	**4PJR5**
1500 Series		
Air Line Lockout Valve	⅜ in	**4PJU4**
Mounting Bracket	—	**4PJR9**
Mounting Modular Clamp	—	**4PJT1**

Item	NPT (in.)	Item No.
2000 Series		
Air Line Lockout Valve	½ in	**4PJU6**
Mounting Bracket	—	**4PJR8**
Mounting Modular Clamp	—	**4PJR7**
3000 Series		
Air Line Lockout Valve	¾ in	**4PJU7**
Air Line Lockout Valve	1 in	**4PJU8**
Wall Mounting Bracket		**4PJT3**

Pneumatic Lockout Valve 4PJU2

T-Type Wall Mount 4PJR6

4PJR5

GROZ

Modular Air Filter/Regulator/Lubricators (FRLs)

DYNAFLO®- AND JUPITER PNEUMATICS®-COMPATIBLE
- Groz products are compatible with DynaFlo® and Jupiter Pneumatics® FRLs

36JN51 36JN52

General Purpose Filters

GROZ

Help separate dirt, dust, and moisture from compressed air and feature a built-in nighttime drain that automatically operates once the main air line is turned off. 40-micron bronze filter element provides long service life. Aluminum bowls are ideal for use where ambient air may contain chemicals.

Description	Pipe Size	Max. Flow	Max. Pressure	Max. Temp.	Overall Height	Overall Width	Item No.	Compares To	Replacement Filter Element, 5 Microns Item No.	Replacement Filter Element, 40 Microns Item No.
Polycarbonate with Guard										
Miniature	¼" NPT	28 cfm	145 psi	140 °F	4 7/16 in	1 9/16 in	**36JN48**	Dynaflo 0425923, Jupiter 42007807	**36JN82**	**36JN77**
Intermediate	¼" NPT	49 cfm	145 psi	140 °F	5 ½ in	2 3/16 in	**36JN49**	Dynaflo 0411019, Jupiter 42007815	**36JN83**	**36JN78**
Intermediate	⅜" NPT	80 cfm	145 psi	140 °F	5 ½ in	2 3/16 in	**36JN50**	Dynaflo 0425924, Jupiter 42007823	**36JN83**	**36JN78**
Standard	½" NPT	125 cfm	145 psi	140 °F	6 13/16 in	2 ¾ in	**36JN51**	Dynaflo 0425925, Jupiter 42007831	—	—
Aluminum										
Standard	½" NPT	125 cfm	290 psi	140 °F	8 13/16 in	2 ¾ in	**36JN52**	Dynaflo 0411023, Jupiter 82199670	—	—

36JN41

General Purpose Regulators

GROZ

Maintain steady outlet pressure and unaffected by variations in the inlet pressure. Can be mounted horizontally, vertically, at an angle, or upside down. Adjustment range 7 to 145 psi. Include panel mounting nut.

Description	Pipe Size	Max. Flow	Gauge Port	Max. Inlet Pressure	Overall Height	Overall Width	Item No.	Compares To
Air Regulators								
Light Duty	⅛ in	17 cfm	⅛ in NPT	220 psi	3.19 in	1.57 in	**36JN40**	Dynaflo 0425916, Jupiter 42007740
Light Duty	¼ in	21 cfm	⅛ in NPT	220 psi	3.19 in	1.57 in	**36JN41**	Dynaflo 0425917, Jupiter 42007757
Intermediate Duty	¼ in	56 cfm	⅛ in NPT	220 psi	5.31 in	2.16 in	**36JN42**	Dynaflo 0411018, Jupiter 42007765
Intermediate Duty	⅜ in	88 cfm	⅛ in NPT	220 psi	5.31 in	2.16 in	**36JN43**	Dynaflo 0425918, Jupiter 42007773
Standard Duty	½ in	140 cfm	⅛ in NPT	220 psi	6.5 in	2.75 in	**36JN44**	Dynaflo 0425919, Jupiter 42007781

Gauge Application	Connec. Size	Dial Size	Item No.
Pressure Gauges			
Digital	¼" MNPT	1 ¼ in"	**36JP03**

36JN59 36JN60

In-Line Lubricators

GROZ

Maintain a constant oil-to-air density to help increase air tool life. Aluminum bowls are suitable for use where ambient air may contain chemicals.

Description	Item No.
Replacement Bowls for Filters/Lubricators	
Miniature	**36JN87**
Intermediate	**36JN88**
Standard	**36JN89**

Description	Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Item No.	Compares To
Polycarbonate with Guard							
Light Duty	¼ in NPT	48 cfm	145 psi	5 5/16 in	1 9/16 in	**36JN56**	Dynaflo 0425929, Jupiter 42007591
Intermediate Duty	⅜ in NPT	106 cfm	145 psi	6 3/16 in	2 3/16 in	**36JN58**	Dynaflo 0425930, Jupiter 42007617
Standard Duty	½ in NPT	200 cfm	145 psi	7 ½ in	2 ¾ in	**36JN59**	Dynaflo 0425931, Jupiter 42007625
Aluminum							
Standard Duty	½ in NPT	200 cfm	290 psi	9 7/16 in	2 ¾ in	**36JN60**	Dynaflo 0411031, Jupiter 82200296

36JN67 36JN68

In-Line Filter/Regulators

GROZ

Air filter and air regulator all in a single unit. Feature a nighttime drain that automatically operates once the main air line is switched off. The built-in, 40-micron bronze filter can be easily cleaned and offers long service life. Pressure adjustment range: 7 to 145 psi.

Description	Pipe Size	Max. Flow	Max. Pressure	Overall Height	Overall Width	Item No.	Compares To	Replacement Filter Element, 5 Microns Item No.	Replacement Filter Element, 40 Microns Item No.
Polycarbonate with Guard									
Miniature	⅛ in NPT	14 cfm	145 psi	6 11/16 in	1 9/16 in	**36JN63**	Dynaflo 0425934, Jupiter 42007385	**36JN82**	**36JN77**
Miniature	¼ in NPT	20 cfm	145 psi	6 11/16 in	1 9/16 in	**36JN64**	Dynaflo 0425935, Jupiter 42007393	**36JN82**	**36JN77**
Intermediate	¼ in NPT	63 cfm	145 psi	8 11/16 in	2 3/16 in	**36JN65**	Dynaflo 0411034, Jupiter 42007401	**36JN84**	**36JN79**
Intermediate	⅜ in NPT	77 cfm	145 psi	8 11/16 in	2 3/16 in	**36JN66**	Dynaflo 0425936, Jupiter 42007419	**36JN84**	**36JN79**
Standard	½ in NPT	106 cfm	145 psi	11 1/16 in	2 ¾ in	**36JN67**	Dynaflo 0425937, Jupiter 42007427	—	—
Aluminum									
Standard	½ in NPT	106 cfm	215 psi	13 in	2 ¾ in	**36JN68**	Dynaflo 0411038, Jupiter 82218231	—	—

7DX40

7DX47

2- and 3-Pc. Combination Filter/Regulator/Lubricator Units

GROZ

Choose a compact, 2-pc. model or a fully modular 3-pc. combo unit. All include a wall mounting bracket. Built-in piping adapters allow you to easily remove/mount individual components without disturbing the air line.

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	Item No.	Compares To
2-Pc. Units						
Miniature	¼ in NPT	18 cfm	6 11/16 in	5 ¾ in	**7DX37**	Dynaflo 0425940, Jupiter 42007450
Intermediate	¼ in NPT	53 cfm	8 11/16 in	7 3/16 in	**7DX38**	Dynaflo 0411041, Jupiter 42007468
Standard	½ in NPT	99 cfm	11 1/16 in	8 11/16 in	**7DX40**	Dynaflo 0425942, Jupiter 42007484
Standard	½ in NPT	99 cfm	13 in	8 11/16 in	**7DX41**	Dynaflo 0411045, Jupiter 82218173

Description	Pipe Size	Max. Flow	Overall Height	Overall Width	Item No.	Compares To
3-Pc. Units						
Miniature	¼ in NPT	18 cfm	6 11/16 in	7 ⅞ in	**7DX44**	Dynaflo 0425945, Jupiter 42007526
Intermediate	¼ in NPT	46 cfm	8 11/16 in	9 13/16 in	**7DX45**	Dynaflo 0411048, Jupiter 42007534
Standard	½ in NPT	106 cfm	11 1/16 in	12 in	**7DX47**	Dynaflo 0425947, Jupiter 42007559
Standard	½ in NPT	106 cfm	13 in	12 in	**7DX48**	Dynaflo 0425950, Jupiter 82218116

36JN98

36JN90

Accessories for Filters, Regulators, and Lubricators

GROZ

For Use with Stock No.	Item No.	Compares To
Mounting Clamps		
36JN40, 36JN41, 36JN47, 36JN48, 36JN55, 36JN56, 36JN63, 36JN64	**36JP04**	Dynaflo 0425957, Jupiter 42007278
36JN42, 36JN43, 36JN49, 36JN50, 36JN57, 36JN58, 36JN65, 36JN66	**36JP05**	Dynaflo 0425958, Jupiter 42007286
36JN44, 36JN51, 36JN52, 36JN59, 36JN60, 36JN67, 36JN68	**36JP06**	Dynaflo 0425959, Jupiter 42007294
36JN47, 36JN48, 36JN55, 36JN56	**36JN90**	Dynaflo 0425966, Jupiter 42007161
36JN51, 36JN52, 36JN59, 36JN60	**36JN92**	Dynaflo 0425968, Jupiter 42007187
36JN53, 36JN54, 36JN61, 36JN62	**36JN93**	Dynaflo 0425969, Jupiter 82218009
Pipe Adapters		
36JN44, 36JN51, 36JN59, 36JN67	**36JN98**	Dynaflo 0425963, Jupiter 42007237
36JN45, 36JN53, 36JN61, 36JN69	**36JN99**	Dynaflo 0425964, Jupiter 82219783

1A483

6B290

SPEEDAIRE WILKERSON

In-Line Filters

Speedaire—Lightweight filter has all-anodized aluminum housing and is used before the air tool. Max. pressure: 500 psi. Operating temp.: 35° to 200°F. ¼" NPT.

Wilkerson—Lightweight, with flow capacity to 17 cfm at 100 psi (200 psi max.). Operating temp.: 32° to 150°F. ¼" NPT.

Description	Brand	Mfr. Model	Item No.
40-micron Filter Element, Sintered Bronze	Speedaire	1A483	**1A483**
5-micron Filter Element	Wilkerson	F01-02-000	**6B290**

In-Line Regulator

Amflo

This compact and lightweight regulator connects directly to the tool and allows you to easily adjust the air pressure. Just turn to select your desired air pressure and then lock in place. No need to go back to the air compressor when you need to make a pressure adjustment.

Pipe Size	Max. Flow	Max. Inlet Pressure	Adjustment Range	Max. Temp.	Overall Height	Overall Width	Mfr. Model	Item No.
¼ in	25 cfm	400 psi	40 to 140 psi	175 °F	2.5 in	1.25 in	41145	**33KL52**

Booster Regulators

SMC

45W761

- Pressure booster ratio: 2X
- Operating temp.: 35° to 122°F

Rugged, carbon steel regulators allow you to increase factory air pressure up to 2 times. Units are easy to install and require no power supply.

Port Size	Thread Type	Max. Operating Pressure	Min. Operating Pressure	Max. Flow Rate	Item No.
¼ in	NPT	290 psi	29 psi	8.1 scfm	**45W761**
⅜ in	NPT	145 psi	29 psi	35.3 scfm	**45W762**
½ in	NPT	145 psi	29 psi	67.1 scfm	**45W763**

Mist Eliminator 4ZL97

Lockout Valve 4ZL05

Air Fuse 5ZL35

Pressure-Relief Valve 4ZK10

SPEEDAIRE

Pneumatic Accessories

Exhaust Silencer Mist Eliminators—Attach to a vertical leg of an air system to nullify pneumatic exhaust noise. Help remove oil mist from exhaust air for a cleaner work environment.

Heavy-Duty Lockout Valves—Exhaust all down-stream pressure in an air line system. Can be padlocked in the closed (vented) position only.

Air Fuses—Designed to eliminate hose-whip if air line is accidentally cut.

Miniature Adjustable Pressure Relief Valve—Use in low-volume air tanks to retard excessive pressure.

NPT	Max. Flow (cfm)	Max. Pressure	Max. Temp.	Height	Width	Item No.
Exhaust Silencer Mist Eliminators						
½ in	35	150 psi	160 °F	7.1 in	3.54 in	**4ZL96**
1 in	100	150 psi	160 °F	10.51 in	4.33 in	**4ZL97**
1 ¼ in	100	150 psi	160 °F	10.51 in	4.33 in	**4ZL98**

NPT (in.)	Cv Forward	Cv Exhaust	Max. Pressure (psi)	Max. Temp. (°F)	Item No.
Heavy-Duty Air Line Lockout Valves					
⅜ in	6.6	6.6	300 psi	175 °F	**4ZL03**
½ in	9.3	7.9	300 psi	175 °F	**4ZL04**
¾ in	12.6	8.6	300 psi	175 °F	**4ZL05**
1 in	16.2	9.2	300 psi	175 °F	**4ZL06**

NPT (in.)	Pressure Drop (psi)	Shut-Off Flow Rate @ 100 psi (SCFM)	Flow @ 100 psi w/ 1 psi Pressure Drop SCFM	Length (in.)	Width (in.)	Item No.
Air Fuses						
¼ in	4.4	29.7	13.8	2.01 in	0.81 in	**5ZL35**
⅜ in	4.4	68.2	28.6	2.44 in	0.94 in	**5ZL36**
½ in	4.4	102.3	49.2	3.07 in	1.25 in	**5ZL37**
¾ in	4.4	169.5	91.1	3.54 in	1.25 in	**5ZL38**

NPT (in.)	Max. Pressure (psi)	Max. Temp. (°F)	Adjustment Range	Height (in.)	Width (in.)	Item No.
Air Tank Valve						
¼ in	300 psi	200 °F	125 to 300	1.75 in	0.79 in	**4ZK10**

20Z884

1A261

SPEEDAIRE WILKERSON

In-Line Lubricators

Hold enough air tool lubricant to last an 8-hr. shift. Max. inlet port pressure: 200 psi. Max. temp.: 150°F. 36 scfm rating.

Pipe Size	SPEEDAIRE Mfr. Model	SPEEDAIRE Item No.	WILKERSON Mfr. Model	WILKERSON Item No.
¼ in NPT	20Z884	**20Z884**	L01-02-M00	**1A260**
⅜ in NPT	20Z885	**20Z885**	L01-03-M00	**1A261**

1EJU8

1EJV1

SPEEDAIRE

In-Line Nipple Filters

Air/Oil Filter and Cartridge—All-anodized aluminum housing is designed to protect small air tools. Max. pressure: 500 psi. Max. temp.: 200°F.

Disposable Air/Oil/Water Filters—Conical filter elements provide larger filtering flow and uninterrupted axial flow. Max. pressure: 300 psi. Max. temp.: 300°F.

Pipe Size	Filter Rating	Item No.
Air/Oil Nipple Filter		
⅛ in NPT	40 micron	**1EJU8**
Replacement Cartridge		
—	40 micron	**1EJU9**
Disposable Air/Oil/Water Nipple Filters		
⅛ in NPT	40 micron	**1EJV1**
	90 micron	**1EJV2**
¼ in NPT	40 micron	**1EJV3**
	90 micron	**1EJV4**
⅜ in NPT	90 micron	**1EJV6**
½ in NPT	40 micron	**1EJV7**
	90 micron	**1EJV8**

4B508

WILKERSON

Exhaust Silencer Mist Eliminators

Meet 90dBA OSHA noise reduction requirement. ¼" slip-on drain tube fitting. Flow capacity to 200 cfm. Vertical mount only.

NPT (in.)	Mfr. Model	Item No.
½ in	XMC-04-000	**4B508**
1 in	XMC-08-000	**4B507**
1 ½ in	XMC-0B-000	**4B416**

2YNN3

SPEEDAIRE

Mufflers

- Max. flow: 160 cfm
- Max. pressure: 300 psi
- Max. temp.: 160°F
- Filter rating: 0.9 microns
- Aluminum material
- ¼" slip-on drain tube fitting

Reclassifier/mufflers help reduce oil mist from exhausted air in many in-plant and white room pneumatic applications.

NPT (in.)	Fits	Length (in.)	Width (in.)	Item No.
Oil Removing Muffler				
⅛ in	⅛	3.125 in	1.625 in	**2YNL8**
¼ in	¼	3.125 in	1.625 in	**2YNL9**
⅜ in	⅜	4.75 in	2.4375 in	**2YNN1**
½ in	½	4.75 in	2.4375 in	**2YNN2**
¾ in	¾	6.25 in	3.3125 in	**2YNN3**
1 in	1	6.25 in	3.3125 in	**2YNN4**
Replacement Elements				
—	⅛ and ¼	2.75 in	1.625 in	**2YNN5**
—	⅜ and ½	4.3125 in	2.4375 in	**2YNN6**
—	¾ and 1	5.5 in	3.3125 in	**2YNN7**

3JT63

Continental
ContiTech

EPDM and Synthetic Rubber Air Hose Assemblies

- Temp. range: -20° to 210°F
- 4:1 safety factor

Use with air, water, and mild chemicals in low-pressure industrial, construction, and agricultural applications.

Hose L	Fitting Size	BLACK 200 PSI Outside Dia.	BLACK 200 PSI Item No.	RED 250 PSI Outside Dia.	RED 250 PSI Item No.	YELLOW 300 PSI Outside Dia.	YELLOW 300 PSI Item No.
Coupled Assembly, EPDM							
¼ in Hose Inside Dia.							
5 ft	¼ in	½ in	**55CL77**	9/16 in	**55CM23**	9/16 in	**55CM71**
		½ in	**55CL80**	9/16 in	**55CM26**	9/16 in	**55CM74**
		½ in	**55CL83**	9/16 in	**55CM29**	9/16 in	**55CM77**
		½ in	**55CL86**	9/16 in	**55CM32**	9/16 in	**55CM80**
10 ft		½ in	**55CL78**	9/16 in	**55CM24**	9/16 in	**55CM72**
		½ in	**55CL81**	9/16 in	**55CM27**	9/16 in	**55CM75**
		½ in	**55CL84**	9/16 in	**55CM30**	9/16 in	**55CM78**
		½ in	**55CL87**	9/16 in	**55CM33**	9/16 in	**55CM81**
15 ft		½ in	**55CL79**	9/16 in	**55CM25**	9/16 in	**55CM73**
		½ in	**55CL82**	9/16 in	**55CM28**	9/16 in	**55CM76**
		½ in	**55CL85**	9/16 in	**55CM31**	9/16 in	**55CM79**
		½ in	**55CL88**	9/16 in	**55CM34**	9/16 in	**55CM82**
25 ft		½ in	**3JT63**	—	—	—	—
50 ft		½ in	**3JT65**	—	—	—	—
100 ft		½ in	**52TV33**	9/16 in	**52TV37**	9/16 in	**52TV41**
⅜ in Hose Inside Dia.							
5 ft	¼ in	11/16 in	**55CL89**	11/16 in	**55CM35**	11/16 in	**55CM83**
		11/16 in	**55CL92**	11/16 in	**55CM38**	11/16 in	**55CM86**
		11/16 in	**55CL95**	11/16 in	**55CM41**	11/16 in	**55CM89**
		11/16 in	**55CL98**	11/16 in	**55CM44**	11/16 in	**55CM92**
10 ft		11/16 in	**55CL90**	11/16 in	**55CM36**	11/16 in	**55CM84**
		11/16 in	**55CL93**	11/16 in	**55CM39**	11/16 in	**55CM87**
		11/16 in	**55CL96**	11/16 in	**55CM42**	11/16 in	**55CM90**
		11/16 in	**55CL99**	11/16 in	**55CM45**	11/16 in	**55CM93**
15 ft		11/16 in	**55CL91**	11/16 in	**55CM37**	11/16 in	**55CM85**
		11/16 in	**55CL94**	11/16 in	**55CM40**	11/16 in	**55CM88**
		11/16 in	**55CL97**	11/16 in	**55CM43**	11/16 in	**55CM91**
		11/16 in	**55CM01**	11/16 in	**55CM46**	11/16 in	**55CM94**
25 ft		⅝ in	**3JT68**	—	—	—	—
	⅜ in	⅝ in	**3JT69**	—	—	—	—
50 ft	¼ in	⅝ in	**3JT71**	—	—	—	—
	⅜ in	⅝ in	**3JT72**	—	—	—	—
100 ft		⅝ in	**52TV34**	11/16 in	**52TV38**	11/16 in	**52TV42**
	¼ in	11/16 in	**411F12**	—	—	—	—
½ in Hose Inside Dia.							
5 ft	½ in	13/16 in	**55CM02**	⅞ in	**55CM47**	⅞ in	**55CM95**
		13/16 in	**55CM05**	⅞ in	**55CM50**	⅞ in	**55CM98**
		13/16 in	**55CM08**	⅞ in	**55CM53**	⅞ in	**55CN02**
		13/16 in	**55CM11**	⅞ in	**55CM56**	⅞ in	**55CN05**
10 ft		13/16 in	**55CM03**	⅞ in	**55CM48**	⅞ in	**55CM96**
		13/16 in	**55CM06**	⅞ in	**55CM51**	⅞ in	**55CM99**
		13/16 in	**55CM09**	⅞ in	**55CM54**	⅞ in	**55CN03**
		13/16 in	**55CM12**	⅞ in	**55CM57**	⅞ in	**55CN06**
15 ft		13/16 in	**55CM04**	⅞ in	**55CM49**	⅞ in	**55CM97**
		13/16 in	**55CM07**	⅞ in	**55CM52**	⅞ in	**55CN01**
		13/16 in	**55CM10**	⅞ in	**55CM55**	⅞ in	**55CN04**
		13/16 in	**55CM13**	⅞ in	**55CM58**	⅞ in	**55CN07**
25 ft		¾ in	**3JT73**	—	—	—	—
50 ft		¾ in	**3JT75**	—	—	—	—
100 ft		13/16 in	**52TV35**	13/16 in	**52TV39**	13/16 in	**52TV43**
¾ in Hose Inside Dia.							
5 ft	¾ in	1 ⅛ in	**55CM14**	1 ⅛ in	**55CM59**	1 ⅛ in	**55CN08**
		1 ⅛ in	**55CM17**	1 ⅛ in	**55CM62**	1 ⅛ in	**55CN11**
		1 ⅛ in	**55CM20**	1 ⅛ in	**55CM65**	1 ⅛ in	**55CN14**
10 ft		1 ⅛ in	**55CM15**	1 ⅛ in	**55CM60**	1 ⅛ in	**55CN09**
		1 ⅛ in	**55CM18**	1 ⅛ in	**55CM63**	1 ⅛ in	**55CN12**
		1 ⅛ in	**55CM21**	1 ⅛ in	**55CM66**	1 ⅛ in	**55CN15**
15 ft		1 ⅛ in	**55CM16**	1 ⅛ in	**55CM61**	1 ⅛ in	**55CN10**
		1 ⅛ in	**55CM19**	1 ⅛ in	**55CM64**	1 ⅛ in	**55CN13**
		1 ⅛ in	**55CM22**	1 ⅛ in	**55CM67**	1 ⅛ in	**55CN16**
25 ft		1 1/16 in	**3JT78**	—	—	—	—
50 ft		1 1/16 in	**3JT79**	—	—	—	—
100 ft		1 ⅛ in	**52TV36**	1 ⅛ in	**52TV40**	1 ⅛ in	**52TV44**
1 in Hose Inside Dia.							
25 ft	1 in	1 7/16 in	**52ZX56**	—	—	—	—
50 ft		1 7/16 in	**52ZX57**	—	—	—	—
100 ft		1 7/16 in	**52ZX58**	—	—	—	—

Hose L	Fitting Size	Outside Dia.	RED 200 PSI Item No.	YELLOW 300 PSI Item No.
Coupled Assembly, Synthetic Rubber				
⅜ in Hose Inside Dia.				
100 ft	¼ in	11/16 in	**411F13**	**411F14**

SPEEDAIRE

Nitrile Air Hose Assemblies

- Temp. range: -20° to 210°F
- 4:1 safety factor
- Reinforcement: synthetic yarn
- Brass couplers

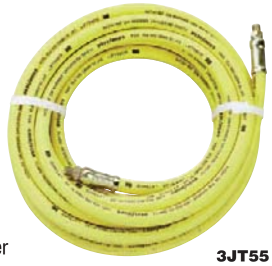
Use with air, water, and mild chemicals in low-pressure industrial, construction, and agricultural applications.

6Z788

Hose Length	Fitting Size	RED 250 PSI Outside Dia.	RED 250 PSI Item No.	YELLOW 300 PSI Outside Dia.	YELLOW 300 PSI Item No.
Coupled Assembly, Nitrile					
¼ in Hose Inside Dia.					
25 ft	¼ in	½ in	**1Z666**	9/16 in	**4XR48**
50 ft		½ in	**2Z010**	9/16 in	**4XR49**
⅜ in Hose Inside Dia.					
25 ft	¼ in	11/16 in	**6Z787**	11/16 in	**4XR50**
	⅜ in	11/16 in	**4Z898**	11/16 in	**4XR53**
50 ft	¼ in	11/16 in	**6Z788**	11/16 in	**4XR51**
	⅜ in	11/16 in	**4Z899**	11/16 in	**4XR54**
½ in Hose Inside Dia.					
25 ft	½ in	13/16 in	**6Z789**	⅞ in	**4XR55**
50 ft		13/16 in	**5Z331**	⅞ in	**4XR57**
¾ in Hose Inside Dia.					
25 ft	¾ in	1 ⅛ in	**5Z332**	1 3/16 in	**4XR59**
50 ft		1 ⅛ in	**5Z333**	1 3/16 in	**4XR60**

Continental
ContiTech

Gorilla Premium Air Hose Assemblies



3JT55

- Max. pressure: 500 psi
- Temp. range: -20° to 210°F
- 4:1 safety factor

Reinforced with Flexten fiber yarn to resist bending and pressure stresses. Yellow Carbryn synthetic rubber cover is nonconductive and has high abrasion resistance. Nitrile synthetic rubber tube resists oil, solvents, and aromatics. Factory-installed fittings on each end.

Hose Fittings	Hose Outside Dia.	5 ft Item No.	10 ft Item No.	15 ft Item No.	25 ft Item No.	50 ft Item No.
¼ in Hose Inside Dia.						
Carbon Steel ¼ in MNPT x Carbon Steel ¼ in MNPT	⅝ in	—	—	—	**3JT55**	**3JT56**
⅜ in Hose Inside Dia.						
Carbon Steel ¼ in M Quick Disconnect x Brass ¼ in F Quick-Disconnect	¾ in	**55CN20**	**55CN21**	**55CN22**	—	—
Brass ¼ in MNPT x Brass ¼ in MNPT		**55CN17**	**55CN18**	**55CN19**	—	—
Carbon Steel ⅜ in MNPT x Carbon Steel ⅜ in MNPT		—	—	—	**3JT57**	—
		—	—	—	—	**3JT58**
½ in Hose Inside Dia.						
Brass ½ in MNPT x Brass ½ in MNPT	⅞ in	**55CN23**	**55CN24**	**55CN25**	—	—
Carbon Steel ½ in M Quick Disconnect x Brass ½ in F Quick-Disconnect		**55CN26**	**55CN27**	**55CN28**	—	—
Carbon Steel ½ in MNPT x Carbon Steel ½ in MNPT		—	—	—	**3JT59**	**3JT60**
Carbon Steel ¾ in MNPT x Carbon Steel ¾ in MNPT	1 3/16 in	—	—	—	**3JT61**	**3JT62**
¾ in Hose Inside Dia.						
Brass ¾ in MNPT x Brass ¾ in MNPT	1 ⅛ in	**55CN29**	**55CN30**	**55CN31**	—	—

5W021

Continental
ContiTech
SPEEDAIRE

Nitrile Bulk Air Hose

- Temp. range: -20° to 210°F
- 4:1 safety factor
- 500-ft. hose length can be made from 1 or 2 pieces of varying lengths

Constructed with a nitrile oil-resistant tube and cover. Hose is nonconductive. Suitable for use with air, water, and mild chemicals.

Hose Color	Max. Working Pressure @ 70°F	Hose Length	Outside Dia.	Brand	Item No.
Bulk Hose					
¼ in Hose Inside Dia.					
Blue	300 psi	1,000 ft	0.500 in	Continental	**10A239**
Red	250 psi	250 ft	0.500 in	Speedaire	**5W019**
		500 ft	0.500 in	Speedaire	**10A216**
Yellow	300 psi	250 ft	0.543 in	Speedaire	**4XR47**
		500 ft	0.543 in	Speedaire	**10A217**
⅜ in Hose Inside Dia.					
Red	250 psi	250 ft	0.687 in	Speedaire	**5W020**
		500 ft	0.653 in	Speedaire	**10A218**
Yellow	300 psi	250 ft	0.687 in	Speedaire	**4XR52**
		500 ft	0.687 in	Speedaire	**10A219**
	500 psi	25 ft	0.625 in	Continental	**55CK35**
		50 ft	0.625 in	Continental	**55CK36**
½ in Hose Inside Dia.					
Red	250 psi	250 ft	0.840 in	Speedaire	**5W021**
		500 ft	0.812 in	Speedaire	**10A250**
Yellow	300 psi	250 ft	0.858 in	Speedaire	**4XR56**
		500 ft	0.856 in	Speedaire	**10A251**
	500 psi	25 ft	0.875 in	Continental	**55CK37**
		50 ft	0.875 in	Continental	**55CK38**
¾ in Hose Inside Dia.					
Red	250 psi	150 ft	1.125 in	Speedaire	**5W731**
		500 ft	1.125 in	Speedaire	**10A220**
Yellow	300 psi	150 ft	1.189 in	Speedaire	**4XR58**
		500 ft	1.189 in	Speedaire	**10A221**
	500 psi	25 ft	1.1875 in	Continental	**55CK39**
		50 ft	1.1875 in	Continental	**55CK40**
1 in Hose Inside Dia.					
Red	250 psi	150 ft	1.500 in	Speedaire	**5W732**
Yellow	300 psi		1.500 in	Speedaire	**4XR61**
	500 psi	25 ft	1.500 in	Continental	**55CK41**
		50 ft	1.500 in	Continental	**55CK42**

Additional hose sizes available on Grainger.com®.

50JH52

50JD82

Continental ContiTech

PVC Air Hose Assemblies

- Temp. range: -10° to 158°F
- 4:1 safety factor

PVC (polyvinyl chloride) air hose assemblies with PVC covers are used for carrying air to tools and equipment in industrial, construction, and agricultural hand-spraying applications.

Hose Length	Fitting Size	Fitting Type	Blue Item No.	Gray Item No.	Red Item No.	Yellow Item No.
Coupled Assembly, Max. 250 PSI						
¾ in Hose Inside Dia.						
3 ft	¾ in x ¾ in	FNPT x FNPT	**50JE01**	**50JF75**	**50JH30**	**50JK05**
		FNPT x MNPT	**50JD91**	**50JF66**	**50JH21**	**50JJ95**
		MNPT x FNPT	**50JE10**	**50JF84**	**50JH39**	**50JK14**
		MNPT x MNPT	**50JD82**	**50JF57**	**50JH12**	**50JJ86**
5 ft		FNPT x FNPT	**50JE02**	**50JF76**	**50JH31**	**50JK06**
		FNPT x MNPT	**50JD92**	**50JF67**	**50JH22**	**50JJ96**
		MNPT x FNPT	**50JE11**	**50JF85**	**50JH40**	**50JK15**
		MNPT x MNPT	**50JD83**	**50JF58**	**50JH13**	**50JJ87**
10 ft		FNPT x FNPT	**50JE03**	**50JF77**	**50JH32**	**50JK07**
		FNPT x MNPT	**50JD93**	**50JF68**	**50JH23**	**50JJ97**
		MNPT x FNPT	**50JE12**	**50JF86**	**50JH41**	**50JK16**
		MNPT x MNPT	**50JD84**	**50JF59**	**50JH14**	**50JJ88**
15 ft		FNPT x FNPT	**50JE04**	**50JF78**	**50JH33**	**50JK08**
		FNPT x MNPT	**50JD94**	**50JF69**	**50JH24**	**50JJ98**
		MNPT x FNPT	**50JE13**	**50JF87**	**50JH42**	**50JK17**
		MNPT x MNPT	**50JD85**	**50JF60**	**50JH15**	**50JJ89**
20 ft		FNPT x FNPT	**50JE05**	**50JF79**	**50JH34**	**50JK09**
		FNPT x MNPT	**50JD95**	**50JF70**	**50JH25**	**50JJ99**
		MNPT x FNPT	**50JE14**	**50JF88**	**50JH43**	**50JK18**
		MNPT x MNPT	**50JD86**	**50JF61**	**50JH16**	**50JJ90**
25 ft		FNPT x FNPT	**50JE06**	**50JF80**	**50JH35**	**50JK10**
		FNPT x MNPT	**50JD96**	**50JF71**	**50JH26**	**50JK01**
		MNPT x FNPT	**50JE15**	**50JF89**	**50JH44**	**50JK19**
		MNPT x MNPT	**50JD87**	**50JF62**	**50JH17**	**50JJ91**
50 ft		FNPT x FNPT	**50JE07**	**50JF81**	**50JH36**	**50JK11**
		FNPT x MNPT	**50JD97**	**50JF72**	**50JH27**	**50JK02**
		MNPT x FNPT	**50JE16**	**50JF90**	**50JH45**	**50JK20**
		MNPT x MNPT	**50JD88**	**50JF63**	**50JH18**	**50JJ92**
75 ft		FNPT x FNPT	**50JE08**	**50JF82**	**50JH37**	**50JK12**
		FNPT x MNPT	**50JD98**	**50JF73**	**50JH28**	**50JK03**
		MNPT x FNPT	**50JE17**	**50JF91**	**50JH46**	**50JK21**
		MNPT x MNPT	**50JD89**	**50JF64**	**50JH19**	**50JJ93**
100 ft		FNPT x FNPT	**50JD99**	**50JF74**	**50JH29**	**50JK04**
		FNPT x MNPT	**50JD90**	**50JF65**	—	**50JJ94**
		MNPT x FNPT	**50JE09**	**50JF83**	**50JH38**	**50JK13**
		MNPT x MNPT	**50JD81**	**50JF56**	**50JH11**	**50JJ85**
1 in Hose Inside Dia.						
3 ft	1 in x 1 in	MNPT x MNPT	**50JE19**	**50JF93**	**50JH48**	**50JK23**
5 ft		MNPT x MNPT	**50JE20**	**50JF94**	**50JH49**	**50JK24**
10 ft		MNPT x MNPT	**50JE21**	**50JF95**	**50JH50**	**50JK25**
15 ft		MNPT x MNPT	**50JE22**	**50JF96**	**50JH51**	**50JK26**
20 ft		MNPT x MNPT	**50JE23**	**50JF97**	**50JH52**	**50JK27**
25 ft		MNPT x MNPT	**50JE24**	**50JF98**	**50JH53**	**50JK28**
50 ft		MNPT x MNPT	**50JE25**	**50JF99**	**50JH54**	**50JK29**
75 ft		MNPT x MNPT	**50JE26**	**50JG01**	**50JH55**	**50JK30**
100 ft		MNPT x MNPT	**50JE18**	**50JF92**	**50JH47**	**50JK22**

Push-On Hose
3JT64

SPEEDAIRE

Continental ContiTech

EPDM Bulk Air Hose

Constructed with a nitrile oil-resistant tube and cover. Hose is nonconductive. Suitable for use with air, water, and mild chemicals.

		Black			Red			Yellow		
Hose Length	Brand	Max. Working Pressure @ 70°F	Outside Dia.	Item No.	Max. Working Pressure @ 70°F	Outside Dia.	Item No.	Max. Working Pressure @ 70°F	Outside Dia.	Item No.
EPDM Bulk Air Hoses with EPDM Cover										
¼ in Hose Inside Dia.										
50 ft	Continental	200 psi	0.5 in	**55CJ95**	250 psi	0.5 in	**55CK09**	300 psi	0.5 in	**55CK22**
100 ft	Continental	200 psi	0.5 in	**55CJ96**	250 psi	0.5 in	**55CK10**	300 psi	0.5 in	**55CK23**
250 ft	Speedaire	200 psi	—	**3JT64**	—	—	—	—	—	—
500 ft	Speedaire	200 psi	—	**3JT66**	—	—	—	—	—	—
⅜ in Hose Inside Dia.										
25 ft	Continental	200 psi	0.6875 in	**55CJ97**	250 psi	0.6875 in	**55CK11**	300 psi	0.6875 in	**55CK24**
50 ft	Continental	200 psi	0.6875 in	**55CJ98**	250 psi	0.6875 in	**55CK12**	300 psi	0.6875 in	**55CK25**
100 ft	Continental	200 psi	0.6875 in	**55CJ99**	250 psi	0.6875 in	**55CK13**	300 psi	0.6875 in	**55CK26**
250 ft	Speedaire	200 psi	—	**3JT67**	—	—	—	—	—	—
500 ft	Speedaire	200 psi	—	**3JT70**	—	—	—	—	—	—
½ in Hose Inside Dia.										
25 ft	Continental	200 psi	0.8125 in	**55CK01**	250 psi	0.875 in	**55CK14**	300 psi	0.875 in	**55CK27**
50 ft	Continental	200 psi	0.8125 in	**55CK02**	250 psi	0.875 in	**55CK15**	300 psi	0.875 in	**55CK28**
100 ft	Continental	200 psi	0.8125 in	**55CK03**	250 psi	0.875 in	**55CK16**	300 psi	0.875 in	**55CK29**
250 ft	Speedaire	200 psi	—	**3JT74**	—	—	—	—	—	—
500 ft	Speedaire	200 psi	—	**3JT76**	—	—	—	—	—	—
¾ in Hose Inside Dia.										
25 ft	Continental	200 psi	1.125 in	**55CK04**	250 psi	1.125 in	**55CK17**	300 psi	1.1875 in	**55CK30**
50 ft	Continental	200 psi	1.125 in	**55CK05**	250 psi	1.125 in	**55CK18**	300 psi	1.1875 in	**55CK31**
100 ft	Continental	200 psi	1.125 in	**55CK06**	250 psi	1.125 in	**55CK19**	300 psi	1.1875 in	**55CK32**
150 ft	Speedaire	200 psi	—	**3JT77**	—	—	—	—	—	—
500 ft	Speedaire	200 psi	—	**3JT80**	—	—	—	—	—	—
1 in Hose Inside Dia.										
50 ft	Continental	200 psi	1.4375 in	**55CK07**	300 psi	1.5 in	**55CK20**	300 psi	1.5 in	**55CK33**
100 ft	Continental	200 psi	1.4375 in	**55CK08**	300 psi	1.5 in	**55CK21**	300 psi	1.5 in	**55CK34**
150 ft	Speedaire	200 psi	—	**3JT81**	—	—	—	—	—	—
450 ft	Speedaire	200 psi	—	**3JT82**	—	—	—	—	—	—

5W038

Continental ContiTech

Carboxylated Nitrile Bulk Air Hose

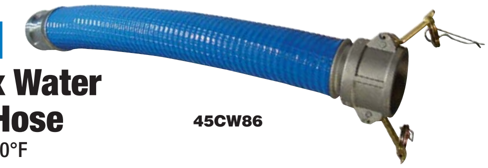
- Max. pressure: 500 psi
- Temp. range: -20° to 210°F
- 4:1 safety factor

Reinforced with Flexten fiber yarn to resist bending and pressure stresses. Yellow Carbryn synthetic rubber cover is nonconductive and has high abrasion resistance. Assemblies have steel (hydraulic type) couplings. Tube is made with innovative oil-resistant ChemiGum synthetic rubber.

Inside Dia.	Outside Dia.	Hose Length	Item No.
Bulk Hose			
¼ in	0.625"	100 FT	**5W035**
¼ in	0.625"	500 FT	**4XR44**
⅜ in	0.750"	100 FT	**5W036**
⅜ in	0.750"	500 FT	**4XR45**
½ in	0.906"	100 FT	**5W037**
½ in	0.906"	500 FT	**4XR46**
¾ in	1.188"	100 FT	**5W038**
1 in	1.47"	450 FT	**41ND42**
1 in	1.500"	100 FT	**1ZLJ6**
1 ¼ in	1.812"	100 FT	**1ZLJ7**
1 ½ in	2.000"	100 FT	**1ZLJ8**
2 in	2.625"	100 FT	**1ZLJ9**

EATON

Royalflex Water Suction Hose



45CW86

- Max. temp.: 180°F

Thermoplastic vinyl nitrile tube with polyester braid and helical wire reinforcement is ideal for heavy water applications including the transfer of water, liquid diluted fertilizers, and pesticides. Hose is also suitable for suction and discharge of water and slurries.

Inside Dia.	Fitting Size	Outside Dia.	Length	Max. Pressure	Vacuum Rating	Item No.
MNPSM x FNPSM						
1½"	1¼ in x 1¼ in	2"	20 ft.	1200 psi	30 in Hg	**45CW91**
2"	2 in x 2 in	2.5"	20 ft.	1200 psi	30 in Hg	**45CW92**
2½"	2½ in x 2½ in	3"	20 ft.	1200 psi	30 in Hg	**45CW93**
3"	3 in x 3 in	3.5"	20 ft.	1000 psi	30 in Hg	**45CW94**
4"	4 in x 4 in	4.5"	20 ft.	600 psi	30 in Hg	**45CW95**
Cam and Groove C x Cam and Groove E						
1½"	1¼ in x 1¼ in	2"	20 ft.	1200 psi	30 in Hg	**45CW86**
2"	2 in x 2 in	2.5"	20 ft.	1200 psi	30 in Hg	**45CW87**
2½"	2½ in x 2½ in	3"	20 ft.	1200 psi	30 in Hg	**45CW88**
3"	3 in x 3 in	3.5"	20 ft.	1000 psi	30 in Hg	**45CW89**
4"	4 in x 4 in	4.5"	20 ft.	600 psi	30 in Hg	**45CW90**
Bulk Hose without Fittings						
1½"	—	2"	100 ft.	1200 psi	30 in Hg	**45CW77**
2"	—	2.5"	50 ft.	1200 psi	30 in Hg	**45CW78**
2"	—	2.5"	100 ft.	1200 psi	30 in Hg	**45CW79**
2½"	—	3"	50 ft.	1200 psi	30 in Hg	**45CW80**
2½"	—	3"	100 ft.	300 psi	30 in Hg	**45CW81**
3"	—	3.5"	50 ft.	1000 psi	30 in Hg	**45CW82**
3"	—	3.5"	100 ft.	1000 psi	30 in Hg	**45CW83**
4"	—	4.5"	50 ft.	600 psi	30 in Hg	**45CW84**
4"	—	4.5"	100 ft.	600 psi	30 in Hg	**45CW85**

4XV55

Mine Spray and Water Hose

- Max. pressure: 1000 psi
- Temp. range: 0° to 200°F
- 4:1 safety factor
- Wire braid reinforcement
- Sold in 50-ft. hose lengths

Suitable for washdown service. Nitrile tube with vinyl nitrile cover is flame-, oil-, and abrasion-resistant. Yellow color hose for easy visibility.

Inside Dia.	Fitting Size	Outside Dia.	Item No.
Coupled Male NPT x Male NPT			
¾ in	¾ in x ¾ in	1.14	**4XV53**
1 in	1 in x 1 in	1.45	**4XV55**
Coupled Male x Female Ground Joint			
¾ in	¾ in x ¾ in	1.14	**1ZNC5**
1 in	1 in x 1 in	1.45	**1ZNC6**
1 ½ in	1½ in x 1½ in	1.98	**1ZNC7**
Hose without Fittings			
¾ in	—	1.14	**1ZLV6**
1 in	—	1.45	**1ZLV7**
1 ½ in	—	1.98	**1ZLV8**
2 in	—	2.55	**1ZLV9**

45DU77

Marine Exhaust Water Hose

- Temp. range: -40° to 250°F

This soft wall hose can be used as a straight connection in a wide range of water transfer and discharge applications. Constructed from black EPDM tubing and cover with reinforced polyester cord for added strength. The extreme temperature range makes hose ideal for marine wet exhaust systems. Various sizes allow a tight fit over standard pipe permitting secure pipe-to-pipe connections and vibration absorption. Meet SAE J2006R1 standard.

Inside Dia.	Length	Outside Dia.	Max. Pressure	Item No.
1½"	3 ft.	1 15⁄16"	250 psi	**45DU77**
	25 ft.	1 15⁄16"	250 psi	**45DU78**
1⅞"	3 ft.	2 15⁄64"	250 psi	**45DU79**
	25 ft.	2 15⁄64"	250 psi	**45DU80**
2"	3 ft.	2 7⁄16"	200 psi	**45DU81**
	25 ft.	2 7⁄16"	200 psi	**45DU82**
2⅜"	3 ft.	2 15⁄16"	200 psi	**45DU83**
	25 ft.	2 15⁄16"	200 psi	**45DU84**
2½"	3 ft.	3 1⁄16"	150 psi	**45DU85**
	25 ft.	3 1⁄16"	150 psi	**45DU86**
3½"	3 ft.	4 1⁄16"	125 psi	**45DU87**
	25 ft.	4 1⁄16"	125 psi	**45DU88**
4½"	3 ft.	5⅛"	100 psi	**45DU89**
	25 ft.	5⅛"	100 psi	**45DU90**

4XR35

Agricultural/Lawn Water Spray Hose

- Max. pressure: 600 psi
- Temp. range: 0° to 160°F

Nonslip surface, PVC ribbed cover, bright orange color. Use with xylene up to 10% concentration. Constructed from durable PVC tubing. Meet RMA Class B standard.

Inside Dia.	Length	Outside Dia.	Bend Radius	Item No.
⅜"	300 ft.	11⁄16"	4 13⁄16 in	**4XR35**
½"	300 ft.	25⁄32"	5 7⁄64 in	**4XR36**
¾"	300 ft.	1 7⁄64"	8 13⁄32 in	**4XR37**

Washdown Water Hose

- Max. pressure: 300 psi

Efficiently and hygienically handles equipment cleaning in food processing plants, dairies, paper mills, and other industrial operations.

White—EPDM tube with a white EPDM cover. 2P570 has tapered nozzle at one end and a ¾" long shank brass female fitting, double-banded, on the other end. Garden hose threads.

White with Antimicrobial—Synthetic rubber hose has a white EPDM rubber cover with antimicrobial protection and spiral textile reinforcement. Resists oils and animal fats found in food processing plants, dairies, canneries, and creameries.

Yellow with Antimicrobial—Carbryn-covered yellow synthetic rubber resists oil and abrasion; provides max. protection against oil and animal fats. Outside cover incorporates antimicrobial protection.

4XR42

Inside Dia.	L	Outside Dia.	Fittings	Item No.
Assembly, White, 300 psi, -40° to 200°F				
¾"	50 ft.	1.17	¾" GHT Brass	**2P570**
Food Grade, Yellow				
⅜"	50 ft.	22/32"	⅜" (M)NPT x ⅜" (M)NPT S	**1ZLT8**
	100 ft.	22/32"	⅜" (M)NPT x ⅜" (M)NPT S	**1ZLT9**
White, 300 psi, -40 to 200°F				
½"	50 ft.	0.84	¾" MxF GHT Brass	**3ATL7**
¾"	50 ft.	1.17	¾" MxF GHT Brass	**3ATL8**
1"	50 ft.	1.47	1" MxF NPSH Brass	**3ATL9**
White, with Antimicrobial, 300 psi, -40 to 200°F				
½"	50 ft.	27⁄32"	¾" M x F GHT	**32W234**
¾"	50 ft.	1 11⁄64"	¾" M x F GHT	**32W235**
1"	50 ft.	1 15⁄32"	1" M x F NPSH	**32W236**

Inside Dia.	L	Hose Outside Dia.	Item No.
Bulk, White, 300 psi, -40° to 200°F			
1"	50 ft.	1 31⁄64 in	**4XR43**
Bulk Hose, White, 300 psi, -40 to 205°F			
½"	50 ft.	⅞ in	**4XR42**
	500 ft.	⅞ in	**3DVE3**
¾"	500 ft.	1 5⁄32 in	**3DVE4**
1"	450 ft.	1 15⁄32 in	**3DVE5**
Bulk Hose, White, with Antimicrobial, 300 psi, -40 to 200°F			
½"	50 ft.	27⁄32 in	**32W259**
	100 ft.	27⁄32 in	**32W260**
¾"	50 ft.	1 11⁄64 in	**32W261**
	100 ft.	1 11⁄64 in	**32W262**
1"	50 ft.	1 15⁄32 in	**32W263**
	100 ft.	1 15⁄32 in	**32W264**
Bulk Hose, Yellow, with Antimicrobial, 300 psi, -20 to 200°F			
½"	50 ft.	29⁄32 in	**1DKL5**
⅝"	50 ft.	1 1⁄16 in	**1DKL6**
¾"	50 ft.	1 ¼ in	**1DKL7**
1"	50 ft.	1 ½ in	**1DKL8**

For Cam and Groove Fittings, see page 2765

Water Discharge Hoses

Continental ContiTech

Also known as water pump discharge hoses, they can be connected to a pump to move water away from a location or source. Water discharge hoses typically lay flat when not in use and are suitable for use in construction, mining, agricultural, and industrial water-removal applications. Hoses with fittings include a gasket.

HOSE ASSEMBLIES

Hose assemblies have fittings installed on both ends for connecting the hose to compatible equipment. Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.

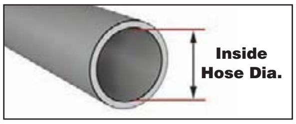
PVC Hose Assemblies with Synthetic Fabric Reinforcement—For use in low-pressure open-end water discharge service and have fittings installed on both ends for connecting the hose to compatible equipment.

PVC/Nitrile Hose Assemblies with Synthetic Yarn Reinforcement—They are fire-resistant and are suitable for pumping and water-removal in construction, mining, and agricultural applications. The hoses' tube is made from PVC and nitrile and has limited oil and chemical applications.

SBR/Natural Rubber Hose Assemblies with Polyester Jacket Reinforcement—Suitable for use in open-end water discharge with fittings installed on both ends for connecting the hose to compatible equipment.

BULK HOSES

Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.



Hose I.D.	Fitting Size	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Hose Length	Item No.	Fitting: FNPSM x MNPSM, Aluminum x Aluminum Hose Length	Item No.
Hose Assemblies								
PVC with Synthetic Fabric Reinforcement, Approved Vendor								
1½"	1½" x 1½"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU14**	50 ft	**45DU15**
1½"	1½" x 1½"	5° to 150°F	80 psi	Blue	25 ft	**45DU21**	25 ft	**45DT90**
1½"	1½" x 1½"	5° to 150°F	80 psi	Blue	50 ft	**45DT91**	50 ft	**45DT92**
1½"	1½" x 1½"	5° to 150°F	150 psi	Red	25 ft	**45DU20**	25 ft	**45DU03**
1½"	1½" x 1½"	5° to 150°F	150 psi	Red	50 ft	**45DU04**	50 ft	**45DU05**
2"	2" x 2"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU16**	50 ft	**45DU17**
2"	2" x 2"	5° to 150°F	80 psi	Blue	25 ft	**45DU23**	25 ft	**45DT93**
2"	2" x 2"	5° to 150°F	80 psi	Blue	50 ft	**45DT94**	50 ft	**45DT95**
2"	2" x 2"	5° to 150°F	150 psi	Red	25 ft	**45DU22**	25 ft	**45DU06**
2"	2" x 2"	5° to 150°F	150 psi	Red	50 ft	**45DU07**	50 ft	**45DU08**
3"	3" x 3"	-4° to 140°F	200 psi	Yellow	50 ft	**45DU18**	50 ft	**45DU19**
3"	3" x 3"	5° to 150°F	70 psi	Blue	25 ft	**45DU25**	25 ft	**45DT96**
3"	3" x 3"	5° to 150°F	70 psi	Blue	50 ft	**45DT97**	50 ft	**45DT98**
3"	3" x 3"	5° to 150°F	125 psi	Red	25 ft	**45DU24**	50 ft	**45DU11**
3"	3" x 3"	5° to 150°F	125 psi	Red	50 ft	**45DU10**	—	—
4"	4" x 4"	-4° to 140°F	150 psi	Yellow	50 ft	**52EE34**	50 ft	**52EE35**
4"	4" x 4"	5° to 130°F	70 psi	Blue	—	—	25 ft	**45DT99**
4"	4" x 4"	5° to 150°F	70 psi	Blue	25 ft	**45DU26**	50 ft	**45DU02**
4"	4" x 4"	5° to 150°F	70 psi	Blue	50 ft	**45DU01**	—	—
4"	4" x 4"	5° to 150°F	100 psi	Red	50 ft	**45DU12**	50 ft	**45DU13**
6"	6" x 6"	-4° to 140°F	150 psi	Yellow	50 ft	**52EE36**	50 ft	**52EE37**
6"	6" x 6"	5° to 150°F	50 psi	Blue	50 ft	**52EE30**	50 ft	**52EE31**
6"	6" x 6"	5° to 150°F	82 psi	Red	50 ft	**52EE32**	50 ft	**52EE33**
PVC/Nitrile with Synthetic Yarn Reinforcement, Approved Vendor								
1½"	1½" x 1½"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU28**	50 ft	**45DU29**
2"	2" x 2"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU31**	50 ft	**45DU32**
3"	3" x 3"	-5° to 175°F	250 psi	Yellow	50 ft	**45DU34**	50 ft	**45DU35**
4"	4" x 4"	-5° to 175°F	200 psi	Yellow	50 ft	**45DU37**	50 ft	**45DU38**
6"	6" x 6"	-5° to 175°F	200 psi	Yellow	50 ft	**52EE39**	50 ft	**52EE40**

Hose I.D.	Fitting Size	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Item No.	Fitting: MNPSM x FNPSM, Aluminum x Brass Item No.
Hose Assemblies							
SBR/Natural Rubber with Polyester Jacket Reinforcement, Approved Vendor							
1½"	1½" x 1½"	50 ft	-22° to 180°F	125 psi	White	**1ZMT8**	**1ZMT4**
2"	2" x 2"	50 ft	-22° to 180°F	125 psi	White	**1ZMT9**	**1ZMT5**
3"	3" x 3"	50 ft	-22° to 180°F	125 psi	White	**1ZMU1**	**1ZMT6**
4"	4" x 4"	50 ft	-22° to 180°F	125 psi	White	**1ZMU2**	**1ZMT7**

Hose I.D.	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Item No.
Bulk Hoses					
EPDM with EPDM Cover with Spiral-Plied Synthetic Fabric Reinforcement, Continental					
1½"	100 ft	—	125 psi	Black	**3JT48**
2"	100 ft	—	125 psi	Black	**3JT49**
PVC/Nitrile with Polyester Fabric Reinforcement, Approved Vendor					
6"	50 ft	-5° to 175°F	200 psi	Yellow	**52EE38**
PVC with Synthetic Fabric Reinforcement, Approved Vendor					
1½"	300 ft	5° to 150°F	80 psi	Blue	**45DT75**
1½"	300 ft	5° to 150°F	150 psi	Red	**45DT80**
2½"	300 ft	5° to 150°F	80 psi	Blue	**45DT77**
2½"	300 ft	5° to 150°F	150 psi	Red	**45DT82**
2"	300 ft	5° to 150°F	80 psi	Blue	**45DT76**
2"	300 ft	5° to 150°F	150 psi	Red	**45DT81**
3"	300 ft	5° to 150°F	70 psi	Blue	**45DT78**
3"	300 ft	5° to 150°F	125 psi	Red	**45DT83**
4"	300 ft	5° to 150°F	70 psi	Blue	**45DT79**
4"	300 ft	5° to 150°F	100 psi	Red	**45DT84**
6"	100 ft	5° to 150°F	50 psi	Blue	**52EE46**
SBR/Natural Rubber with Polyester Jacket Reinforcement, Approved Vendor					
1½"	100 ft	-22° to 180°F	125 psi	White	**1ZMU3**
2"	100 ft	-22° to 180°F	125 psi	White	**1ZMU4**
3"	100 ft	-22° to 180°F	125 psi	White	**1ZMU5**
4"	100 ft	-22° to 180°F	125 psi	White	**1ZMU6**

52EE34

45DT95

45DU11

1ZMT9

3JT48

45DT75

45DT80

1ZMU4

For Cam and Groove Fittings, see page 2765

1ZNA5

3P574

1ZNB4

4YLN2

45DU39

1ZMY4

1ZMZ9

Water Suction and Discharge Hoses

Have a rigid reinforcement that helps the hose keep its shape when not in use and prevents it from collapsing in suction applications. Used to vacuum (suction) or pump (discharge) water from one location to another in construction, mining, agricultural, and industrial applications. Hoses with fittings inlcude a gasket.

HOSE ASSEMBLIES

These hose assemblies have fittings installed on both ends for connecting the hose to compatible equipment. Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.

EPDM Hose Assemblies with EPDM Cover with Spiral-Plied Synthetic Fabric and Wire Helix Reinforcement—Used with engine-driven dewatering and trash pumps for transferring water from tanks, trucks, and pits or other places where water may accumulate. Suitable for medium- to heavy-duty construction, mining, agricultural, and industrial applications.

EPDM Hose Assemblies with Spiral-Plied Synthetic Fabric Reinforcement—The EPDM (ethylene propylene diene monomer) material provides excellent resistance to ozone and abrasion as well as good resistance to heat and chemicals. Suitable for use in pumping water in quarries, mines, construction sites, and other abrasive environments.

Polyethylene Hose Assemblies with Polyethylene Double Helix Reinforcement—Assemblies are for use in vacuuming or pumping water in waste-evacuation, septic-pumping, and sewer-cleaning applications.

PVC Hose Assemblies with Rigid PVC Helix Reinforcement—Suitable for use in septic-tank cleaning operations and for general industrial and agricultural applications that require a hose with mild chemical resistance.

PVC Hose Assemblies with Synthetic Braid and PVC Helix Reinforcement—Hoses feature a smooth interior that helps keep material from building up in the hose. The PVC material also provides good resistance to chemicals.

Thermoplastic Rubber Hose Assemblies with Polyethylene Helix Reinforcement—Thermoplastic rubber hoses stay flexible in cold weather and resist most chemicals used in the agricultural and sanitation industries. For use in vacuuming or pumping water in waste management, construction, agricultural, marine, and manufacturing applications.Bulk HosesBulk hoses can be cut to the desired length, and compatible hose fittings can be added to theends of the hoses to create custom hose assemblies.

BULK HOSES

Bulk hoses can be cut to the desired length, and compatible hose fittings can be added to the ends of the hoses to create custom hose assemblies.

Hose I.D.	Fitting Size	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Brand	Fitting: Cam and Groove C x Cam and Groove E, Aluminum x Aluminum Item No.	Fitting: Cam and Groove C x MNPT, Aluminum x Aluminum Item No.	Fitting: Cam and Groove C x MNPT, Aluminum x Carbon Steel Item No.	Fitting: FNPSM x MNPSM, Aluminum x Aluminum Item No.	Fitting: MNPSM x FNPSM, Aluminum x Aluminum Item No.
Hose Assemblies											
EPDM with EPDM Cover with Spiral-Plied Synthetic Fabric & Wire Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-25° to 200°F	150 psi	Black	Continental	**4YLN6**	—	**1ZNA5**	**3P572**	—
2"	2" x 2"	20 ft	-25° to 200°F	150 psi	Black	Continental	**4YLN7**	—	**1ZNA6**	**3P573**	—
3"	3" x 3"	10 ft	-25° to 200°F	150 psi	Black	Continental	**4YLN8**	—	**1ZNA7**	**3P583**	—
3"	3" x 3"	20 ft	-25° to 200°F	150 psi	Black	Continental	**4YLN9**	—	**1ZNA8**	**3P634**	—
4"	4" x 4"	20 ft	-25° to 200°F	150 psi	Black	Continental	**4YLP1**	—	**1ZNA9**	**3P657**	—
EPDM with Spiral-Plied Synthetic Fabric Reinforcement											
1½"	1½" x 1½"	25 ft	-25° to 200°F	125 psi	Black	Continental	**1ZMW1**	—	—	**3P574**	—
2"	2" x 2"	25 ft	-25° to 200°F	125 psi	Black	Continental	**1ZMW2**	—	—	**3P575**	—
3"	3" x 3"	25 ft	-25° to 200°F	125 psi	Black	Continental	**1ZMW3**	—	—	**3P584**	—
4"	4" x 4"	25 ft	-25° to 200°F	125 psi	Black	Continental	**1ZMW4**	—	—	**2P086**	—
Polyethylene with Polyethylene Double Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-40° to 140°F	26 psi	Black, Yellow	—	**45DV20**	—	**1ZNB4**	**1ZNB1**	—
2"	2" x 2"	20 ft	-40° to 140°F	17 psi	Black, Yellow	—	**45DV21**	—	**1ZNB5**	**1ZNB2**	—
3"	3" x 3"	20 ft	-40° to 140°F	12 psi	Black, Yellow	—	**45DV22**	—	**1ZNB6**	**1ZNB3**	—
PVC with Rigid PVC Helix Reinforcement											
1½"	1½" x 1½"	20 ft	0° to 158°F	89 psi	Green	Continental	**4YLN2**	—	**1ZMW5**	**2P566**	—
2"	2" x 2"	20 ft	0° to 158°F	79 psi	Green	Continental	**4YLN3**	—	**1ZMW6**	**2P567**	—
2"	2" x 2"	25 ft	0° to 158°F	79 psi	Green	Continental	**55CG43**	**55CG44**	—	—	**55CG45**
2"	2" x 2"	50 ft	0° to 158°F	79 psi	Green	Continental	**55CG46**	**55CG47**	—	—	**55CG48**
3"	3" x 3"	20 ft	0° to 158°F	65 psi	Green	Continental	**4YLN4**	—	**1ZMW7**	**2P568**	—
3"	3" x 3"	25 ft	0° to 158°F	65 psi	Green	Continental	**55CG55**	**55CG56**	—	—	**55CG57**
3"	3" x 3"	50 ft	0° to 158°F	65 psi	Green	Continental	**55CG58**	**55CG59**	—	—	**55CG60**
4"	4" x 4"	20 ft	0° to 158°F	55 psi	Green	Continental	**4YLN5**	—	**1ZMW8**	**2P569**	—
4"	4" x 4"	25 ft	0° to 158°F	55 psi	Green	Continental	**55CG67**	**55CG68**	—	—	**55CG69**
4"	4" x 4"	50 ft	0° to 158°F	55 psi	Green	Continental	**55CG70**	**55CG71**	—	—	**55CG72**
PVC with Synthetic Braid & PVC Helix Reinforcement											
1"	1" x 1"	20 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU39**	—	**45DU40**	—	—
1¼"	1¼" x 1¼"	20 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU42**	—	**45DU43**	**45DU44**	—
1½"	1½" x 1½"	20 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU45**	—	**45DU46**	**45DU47**	—
2"	2" x 2"	20 ft	-10° to 130°F	70 psi	Clear, White	—	**45DU48**	—	**45DU49**	—	—
2"	2" x 2"	20 ft	-40° to 150°F	90 psi	Blue, Clear	Kuriyama	**45DU71**	—	—	**45DU72**	—
3"	3" x 3"	20 ft	-10° to 130°F	55 psi	Clear, White	—	**45DU51**	—	**45DU52**	**45DU53**	—
3"	3" x 3"	20 ft	-40° to 150°F	65 psi	Blue, Clear	Kuriyama	**45DU73**	—	—	**45DU74**	—
4"	4" x 4"	20 ft	-10° to 130°F	50 psi	Clear, White	—	**45DU54**	—	**45DU55**	**45DU56**	—
4"	4" x 4"	20 ft	-40° to 150°F	55 psi	Blue, Clear	Kuriyama	**45DU75**	—	—	**45DU76**	—
6"	6" x 6"	20 ft	-13° to 140°F	70 psi	Clear, Orange	Continental	**52EE45**	—	—	—	—
Thermoplastic Rubber with Polyethylene Helix Reinforcement											
1½"	1½" x 1½"	20 ft	-40° to 180°F	50 psi	Black, Green	Continental	—	—	—	**1ZMY3**	—
1½"	1½" x 1½"	25 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZMZ8**	—	—	**1ZMY7**	—
1½"	1½" x 1½"	50 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZNA2**	—	—	—	—
2"	2" x 2"	20 ft	-40° to 180°F	50 psi	Black, Green	Continental	—	—	**1ZMZ2**	**1ZMY4**	—
2"	2" x 2"	25 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZMZ9**	—	**1ZMZ6**	**1ZMY8**	—
2"	2" x 2"	50 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZNA3**	—	—	—	—
3"	3" x 3"	20 ft	-40° to 180°F	45 psi	Black, Green	Continental	—	—	**1ZMZ3**	**1ZMY5**	—
3"	3" x 3"	25 ft	-40° to 180°F	45 psi	Black, Green	Continental	**1ZNA1**	—	**1ZMZ7**	**1ZMY9**	—
3"	3" x 3"	50 ft	-40° to 180°F	45 psi	Black, Green	Continental	**1ZNA4**	—	—	—	—
4"	4" x 4"	20 ft	-40° to 180°F	40 psi	Black, Green	Continental	—	—	**1ZMZ4**	**1ZMY6**	—

CONTINUED

CONTINUED

Water Suction and Discharge Hoses

Hose I.D.	Hose Length	Temp. Range	Max. Working Pressure @ 70°F	Hose Color	Brand	Item No.
Bulk Hoses						
EPDM with Spiral-Plied Synthetic Fabric Reinforcement						
1¼"	100 ft	-25° to 200°F	125 psi	Black	Continental	**1ZLJ1**
1½"	100 ft	—	125 psi	Black	Continental	**3JT44**
2"	100 ft	—	125 psi	Black	Continental	**3JT45**
2½"	100 ft	-25° to 200°F	125 psi	Black	Continental	**1ZLJ2**
3"	50 ft	-25° to 200°F	150 psi	Black	Continental	**55AX67**
3"	100 ft	—	100 psi	Black	Continental	**3JT46**
3"	100 ft	—	125 psi	Black	Continental	**3JT50**
Polyethylene with Polyethylene Double Helix Reinforcement						
1½"	20 ft	-40° to 140°F	26 psi	Black, Yellow	—	**1ZNB7**
2"	20 ft	-40° to 140°F	17 psi	Black, Yellow	—	**1ZNB8**
3"	20 ft	-40° to 140°F	12 psi	Black, Yellow	—	**1ZNB9**
PVC with PVC Helix Reinforcement						
¾"	100 ft	-40° to 150°F	115 psi	Blue, Clear	Kuriyama	**45DU63**
1"	100 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU57**
1"	100 ft	0° to 158°F	106 psi	Clear, White	Continental	**41ND36**
1¼"	100 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU58**
1½"	100 ft	-10° to 130°F	90 psi	Clear, White	—	**45DU59**
2"	100 ft	-40° to 150°F	90 psi	Blue, Clear	Kuriyama	**45DU66**
2"	100 ft	-10° to 130°F	70 psi	Clear, White	—	**45DU60**
3"	100 ft	-10° to 130°F	55 psi	Clear, White	—	**45DU61**
4"	100 ft	-10° to 130°F	50 psi	Clear, White	—	**45DU62**
PVC with Rigid PVC Helix Reinforcement						
1½"	100 ft	15° to 158°F	89 psi	Green	Continental	**1ZLW1**
2"	100 ft	15° to 158°F	79 psi	Green	Continental	**1ZLW2**
3"	100 ft	15° to 158°F	65 psi	Green	Continental	**1ZLW3**
Thermoplastic Rubber with Polyethylene Helix Reinforcement						
1¼"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZLP9**
1½"	50 ft	-40° to 180°F	50 psi	Green	Continental	**55AX29**
1½"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZLR1**
2"	50 ft	-40° to 180°F	50 psi	Green	Continental	**55AX32**
2"	100 ft	-40° to 180°F	50 psi	Black, Green	Continental	**1ZLR2**
3"	50 ft	-40° to 180°F	45 psi	Green	Continental	**55AX35**
3"	100 ft	-40° to 180°F	45 psi	Black, Green	Continental	**1ZLR3**
4"	50 ft	-40° to 180°F	40 psi	Green	Continental	**55AX38**
4"	100 ft	-40° to 180°F	40 psi	Black, Green	Continental	**1ZLR4**

Suction/Discharge Hose Kits

Include 20-ft. green PVC suction hose, suction hose strainer, 50-ft. blue PVC lay-flat discharge hose, and gaskets. **Pump Hose Kits** have a brass swivel. **Quick-Coupling Pump Hose Kits** have aluminum cam-and-groove quick couplings for pump connections.

Hose Inside Dia. (in.)/ Connect. Size (in.)	PUMP HOSE KITS Item No.	QUICK COUPLING PUMP HOSE KITS Item No.
1 ½ in	**1ZNC1**	**6YZE7**
2 in	**1ZNC2**	**6YZE8**
3 in	**1ZNC3**	**6YZE9**
4 in	**1ZNC4**	**6YZF0**

1ZNC2

Multipurpose Barbed Hose Fittings

- Hose barb x MNPT connection

Designed for low-pressure suction and discharge service in transporting air, water, and chemicals. Threaded end is same size as hose. Barbed combination nipples have raised ridges (or barbs) on one end that grip the inside of hoses to hold them in place. Rigid barbed hose fittings connect hoses to pipe in multipurpose hose assemblies. **316 Stainless Steel fittings** have higher corrosion resistance than other types of stainless steel hose fittings. Used in saltwater and chlorine environments. **Aluminum and Carbon Steel fittings** are suitable for low-pressure applications in the food and beverage, marine, and chemical processing industries. **Steel fittings** are plated to resist corrosion. **Polypropylene fittings** have good resistance to abrasion and chemicals. Can be used in fertilizer, herbicide, and insecticide handling applications, as well as for industrial applications, such as waste, saltwater, and cooling water handling.

For Hose I.D.	Fitting Size	Pipe Fitting Connection Type (Hose Barb x ...)	Nipple Grip Type	Brand	Item No.
Rigid Straight Barbed Combination Nipples					
316 Stainless Steel x 316 Stainless Steel					
½"	½" x ½"	NPT	Knurled	—	**3LZ83**
¾"	¾" x ¾"	NPT	Knurled	—	**3LZ91**
1"	1" x 1"	NPT	Knurled	—	**3LZ84**
1¼"	1¼" x 1¼"	NPT	Knurled	—	**3LZ85**
1½"	1½" x 1½"	NPT	Knurled	—	**3LZ86**
2"	2" x 2"	BSPT	No Knurl	Dixon	**55EU61**
2"	2" x 2"	Flange	No Knurl	Dixon	**55EU73**
2"	2" x 2"	NPT	Knurled	—	**3LZ87**
3"	3" x 3"	BSPT	No Knurl	Dixon	**55EU70**
3"	3" x 3"	Flange	No Knurl	Dixon	**55EU43**
3"	3" x 3"	NPT	Knurled	—	**3LZ89**
4"	4" x 4"	150# ASA Flange	No Knurl	Dixon	**55EU82**
4"	4" x 4"	BSPT	No Knurl	Dixon	**55EU77**
4"	4" x 4"	Floating Flange	No Knurl	Dixon	**55EU81**
8"	8" x 8"	Flange	No Knurl	Dixon	**55EU48**
8"	8" x 8"	NPT	No Knurl	Dixon	**55EU46**
Aluminum x Aluminum					
1"	1" x 1"	NPT	Knurled	Dixon	**55EU56**
1½"	1½" x 1½"	NPT	Knurled	Dixon	**55EU54**
Carbon Steel x Carbon Steel					
2"	2" x 2"	Grooved	No Knurl	Dixon	**58DP43**
3"	3" x 3"	Grooved	No Knurl	Dixon	**58DP44**
4"	4" x 4"	Grooved	No Knurl	Dixon	**58DP45**
Steel x Steel					
¼"	¼" x ¼"	NPT	Hex	Dixon	**55EU62**
⅜"	⅜" x ¼"	NPT	Hex	Dixon	**55EU49**
½"	½" x ⅜"	NPT	Hex	Dixon	**55EU53**
½"	½" x ½"	NPT	Hex	Dixon	**55EU20**
½"	½" x ½"	NPT	Hex	Dixon	**55EU22**
½"	½" x ½"	NPT	Knurled	—	**3LZ92**
½"	⅝" x ½"	NPT	Knurled	Dixon	**55EU55**
¾"	¾" x ¾"	NPT	Hex	Dixon	**55EU21**
¾"	¾" x ¾"	NPT	Hex	Dixon	**55EU52**
¾"	¾" x ¾"	NPT	Knurled	—	**3MC01**
1"	1" x 1"	Flange	No Knurl	Dixon	**55EU47**
1"	1" x 1"	NPT	Hex	Dixon	**55EU60**
1"	1" x 1"	NPT	Knurled	—	**3LZ93**
1"	1" x 1"	NPT	Knurled	Dixon	**55EU26**
1"	1" x 1"	NPT	No Knurl	Dixon	**55EU59**
1"	1 1/32" x 1 5/16"	NPT	No Knurl	Dixon	**58DD90**
1¼"	1¼" x 1¼"	NPT	Knurled	—	**3LZ94**
1¼"	1¼" x 1¼"	NPT	No Knurl	Dixon	**55EU31**
1¼"	1¼" x 1 21/32"	NPT	No Knurl	Dixon	**58CP80**
1½"	1½" x 1¼"	NPT	Knurled	Dixon	**55EU69**
1½"	1½" x 1½"	NPT	Knurled	—	**3LZ95**
1½"	1 17/32" x 1 29/32"	NPT	No Knurl	Dixon	**58CP79**
2"	2" x 2"	Flange	No Knurl	Dixon	**55EU45**
2"	2" x 2"	Flange	No Knurl	Dixon	**55EU78**
2"	2" x 2"	NPT	Knurled	—	**3LZ96**
2"	2 1/32" x 2 13/32"	NPT	No Knurl	Dixon	**58DD91**
2½"	2½" x 2½"	Grooved	No Knurl	Dixon	**55EU51**
2½"	2½" x 2½"	NPT	Knurled	—	**3LZ97**
2½"	2½" x 3"	NPT	No Knurl	Dixon	**55EU58**
3"	3" x 2"	NPT	No Knurl	Dixon	**55EU63**
3"	3" x 3"	150# ASA Flange	No Knurl	Dixon	**55EU75**
3"	3" x 3"	Beveled	No Knurl	Dixon	**55EU65**
3"	3" x 3"	Beveled	No Knurl	Dixon	**55EU72**
3"	3" x 3"	Fixed Flange	No Knurl	Dixon	**55EU38**
3"	3" x 3"	Floating Flange	No Knurl	Dixon	**55EU68**
3"	3" x 3"	Floating Flange	No Knurl	Dixon	**55EU76**
3"	3" x 3"	NPT	Knurled	—	**3LZ98**
3"	3 1/32" x 3½"	NPT	No Knurl	Dixon	**58DD92**
4"	4" x 3"	NPT	No Knurl	Dixon	**55EU67**
4"	4" x 4"	Beveled	No Knurl	Dixon	**55EU27**
4"	4" x 4"	Floating Flange	No Knurl	Dixon	**55EU35**
4"	4" x 4"	Floating Flange	No Knurl	Dixon	**55EU74**
4"	4" x 4"	Grooved	No Knurl	Dixon	**55EU34**
4"	4" x 4"	Grooved	No Knurl	Dixon	**55EU84**
4"	4" x 4"	NPT	Knurled	—	**3LZ99**
4"	4" x 4"	NPT	No Knurl	Dixon	**55EU64**
4"	4" x 4"	TTMA Flange	No Knurl	Dixon	**55EU36**
4"	4" x 4"	TTMA Flange	No Knurl	Dixon	**55EU42**
4"	4 1/32" x 4 17/32"	NPT	No Knurl	Dixon	**58DD93**
5"	5" x 5"	Beveled	No Knurl	Dixon	**55EU66**
5"	5" x 5"	Grooved	No Knurl	Dixon	**55EU71**
6"	6" x 6"	Beveled	No Knurl	Dixon	**55EU86**
6"	6" x 6"	Floating Flange	No Knurl	Dixon	**55EU33**
6"	6" x 6"	Floating Flange	No Knurl	Dixon	**55EU79**
6"	6" x 6"	Grooved	No Knurl	Dixon	**55EU32**
6"	6 1/16" x 6 15/32"	NPT	No Knurl	Dixon	**58DD94**
8"	8" x 8"	Flange	No Knurl	Dixon	**55EU37**
10"	10" x 10"	Flange	No Knurl	Dixon	**55EU44**
10"	10" x 10"	NPT	No Knurl	Dixon	**55EU80**
12"	12" x 12"	Flange	No Knurl	Dixon	**55EU40**
12"	12" x 12"	Flange	No Knurl	Dixon	**55EU41**
12"	12" x 12"	Grooved	No Knurl	Dixon	**55EU39**
12"	12" x 12"	NPT	No Knurl	Dixon	**55EU83**

Straight, 316 Stainless Steel 3LZ87

90° Elbow, Polypropylene 3DTT9

For Hose I.D.	Pipe Fitting Connection Type (Hose Barb x ...)	Fitting Size	Hex Head Size	Brand	Item No.
Rigid Barbed Hose Fittings, Male x Male, Hex Nipple Grip					
90° Elbow, Polypropylene x Polypropylene					
¼"	NPT	¼" x ¼"	¾"	Banjo	**3DTL9**
⅜"	NPT	⅜" x ⅜"	¾"	Banjo	**3DTN8**
⅜"	NPT	⅜" x ½"	15/16"	Banjo	**3DTP8**
½"	NPT	½" x ½"	15/16"	Banjo	**3DTP7**
½"	NPT	½" x ¾"	1⅛"	Banjo	**3DTT1**
¾"	NPT	¾" x ½"	15/16"	Banjo	**3DTP9**
¾"	NPT	¾" x ¾"	1⅛"	Banjo	**3DTR9**
¾"	NPT	1" x ¾"	1⅜"	Banjo	**3DTT9**
1"	NPT	1" x ¾"	1⅛"	Banjo	**3DTT2**
1"	NPT	1" x 1"	1⅜"	Banjo	**3DTT8**
1½"	NPT	1½" x 1½"	2"	Banjo	**3DTV6**
1½"	NPT	1½" x 1½"	2⅜"	Banjo	**3DTW3**
2"	NPT	2" x 2"	2½"	Banjo	**3DTW2**
3"	NPT	3" x 3"	3⅞"	Banjo	**3DTW6**
Straight, 316 Stainless Steel x 316 Stainless Steel					
¼"	NPT	¼" x ¼"	9/16"	—	**3DTN3**
⅜"	NPT	⅜" x ¼"	19/32"	—	**3DTL6**
⅜"	NPT	⅜" x ⅜"	¾"	—	**3DTN9**
½"	NPT	½" x ¼"	21/32"	—	**3DTL8**
½"	NPT	½" x ⅜"	¾"	—	**3DTN7**
½"	NPT	½" x ½"	27/32"	—	**3DTR1**
½"	NPT	½" x ¾"	1 1/16"	—	**3DTR5**
⅝"	NPT	⅝" x ½"	27/32"	—	**3DTP4**
¾"	NPT	¾" x ½"	27/32"	—	**3DTP6**
¾"	NPT	¾" x ¾"	1 1/16"	—	**3DTT3**
¾"	NPT	1" x ¾"	1½"	—	**3DTT6**
1"	NPT	1" x ¾"	1⅛"	—	**3DTR8**
1"	NPT	1" x 1"	1 7/16"	—	**3DTU2**
1¼"	NPT	1¼" x 1¼"	1¾"	—	**3DTV1**
1½"	NPT	1½" x 1½"	2 1/16"	—	**3DTV8**
2"	NPT	2" x 2"	2½"	—	**3DTW4**
3"	NPT	3" x 3"	3½"	—	**3DTW7**
Straight, Polypropylene x Polypropylene					
¼"	NPT	¼" x ¼"	¾"	Banjo	**3DTL4**
¼"	NPT	½" x ¼"	15/16"	Banjo	**3DTP2**
⅜"	NPT	⅜" x ¼"	¾"	Banjo	**3DTL5**
⅜"	NPT	⅜" x ⅜"	¾"	Banjo	**3DTN4**
⅜"	MNPT	½" x ⅜"	15/16"	Banjo	**3DTP3**
⅜"	NPT	¾" x ⅜"	1⅛"	Banjo	**3DTR3**
½"	NPT	½" x ⅜"	¾"	Banjo	**3DTN6**
½"	NPT	½" x ½"	15/16"	Banjo	**3DTP1**
½"	NPT	¾" x ½"	1⅛"	Banjo	**3DTR4**
⅝"	NPT	¾" x ⅝"	1⅛"	Banjo	**3DTR6**
¾"	NPT	¾" x ½"	15/16"	Banjo	**3DTP5**
¾"	NPT	¾" x ¾"	1⅛"	Banjo	**3DTR2**
¾"	NPT	1" x ¾"	1⅜"	Banjo	**3DTT5**
1"	NPT	1" x ¾"	1⅛"	Banjo	**3DTR7**
1"	NPT	1" x 1"	1⅜"	Banjo	**3DTT4**
1"	MNPT	1" x 1½"	2"	Banjo	**3DTV3**
1¼"	NPT	1¼" x 1¼"	1¾"	Banjo	**3DTU3**
1¼"	NPT	1¼" x 1¼"	2"	Banjo	**3DTV4**
1½"	NPT	1½" x 1½"	2 1/16"	Banjo	**3DTV2**
1½"	MNPT	2" x 1½"	2½"	Banjo	**3DTW1**
2"	NPT	2" x 1½"	2 1/16"	Banjo	**3DTV5**
2"	NPT	2" x 2"	2½"	Banjo	**3DTV9**
3"	NPT	3" x 3"	3 29/32"	Banjo	**3DTW5**
4"	NPT	4" x 4"	5⅜"	Banjo	**3DTW8**

Additional hose sizes available on Grainger.com®.

44ZF53

EATON

Multifuel Transfer Hose

- Max. pressure: 150 psi
- Temp. range: -40° to 180°F
- Brass fittings

Vinyl nitrile hose and cover are designed to handle a wide variety of petroleum-based fuels including diesel, gasoline, and kerosene. Coupled with corrosion-resistant brass fittings and reinforced with multi-ply fiber cords and a dual helix with static wire.

Inside Dia.	Fitting Size (in.)	HOSE WITH BRASS NPSM FITTINGS Length	HOSE WITH BRASS NPSM FITTINGS Item No.	BULK HOSE, WITHOUT FITTINGS Length	BULK HOSE, WITHOUT FITTINGS Item No.
1"	1 in x 1 in	25 ft.	**44ZE96**	100 ft.	**44ZF53**
1½"	1½ in x 1½ in	25 ft.	**44ZE93**	100 ft.	**45GG14**
2"	2 in x 2 in	25 ft.	**44ZF11**	100 ft.	**44ZF08**
3"	3 in x 3 in	25 ft.	**44ZF36**	100 ft.	**44ZF49**

Continental ContiTech

2P035

Steam Hose

- Max. pressure: 250 psi
- Temp. range: 0° to 450°F
- Reinforced double-wire braid (½" hose has single-wire braid)

Designed for cleaning, heat control, fire prevention, purging, thawing, blow-out service, steam pumps, and hoists in open-end or permanent installation operations. Cover and tube are synthetic rubber. Assembled hose fittings are clamped. Crimp-coupled hoses offer a smooth grip for operator comfort. Zinc-plated steel female coupling spuds are available separately.

4KT61 and 4KT62 include a female wing nut. A female or male spud may be needed to complete the assembly. Bulk hose can use fittings and clamps on page 2531.

Inside Dia.	Length	Fitting Size	RED Item No.	BLACK Item No.
250 psi, 2 Bolt				
½ in	25 ft	½ in x ½ in	—	**2P035**
	50 ft	½ in x ½ in	—	**2P036**
	50 ft	½ in x ½ in	—	**4KT61**
¾ in	25 ft	¾ in x ¾ in	—	**2P571**
	50 ft	¾ in x ¾ in	—	**2P572**
	50 ft	¾ in x ¾ in	—	**4KT62**
250 psi, 2 Crimp				
¾ in	25 ft	¾ in x ¾ in	**1DKN9**	**1DKP5**
	50 ft	¾ in x ¾ in	**1DKP1**	**1DKP6**
	50 ft	¾ in x ¾ in	**1DKP2**	**1DKP7**
1 in	25 ft	1 in x 1 in	**1DKP3**	**1DKP8**
	50 ft	1 in x 1 in	**1DKP4**	**1DKP9**
250 psi, Without Fittings				
½ in	50 ft	—	**1DKN6**	**4KT58**
¾ in	50 ft	—	**1DKN7**	**4KT59**
1 in	50 ft	—	**1DKN8**	**4KT60**

Thermoid

44ZE75

Gasoline/Fuel Transfer Hose

- Aluminum fittings
- Temp range: -40° to 180°F

PUMPFLEX I, SOFTWALL

Suitable for curb pump self-service stations and highly sensitive electronic fuel pumps. Durable construction resists deterioration from fuel, ozone, sunlight, and cracking around/behind the nozzle end coupling.

PUMPFLEX II, HARDWALL

Hose is designed for curb pump self-service stations and suitable for highly sensitive electronic fuel pumps where an extremely durable hose is required. Features a wire reinforcement for added strength.

Inside Dia.	Length	Max. Working Pressure @ 70°F	Fitting Size	Item No.
Pumpflex I, Softwall MNPT x MNPT				
¾"	8 ft.	200 psi	¾ in x ¾ in	**44ZG40**
	10 ft.	200 psi	¾ in x ¾ in	**44ZF93**
	12 ft.	200 psi	¾ in x ¾ in	**44ZE79**
	14 ft.	200 psi	¾ in x ¾ in	**44ZE88**
	17 ft.	200 psi	¾ in x ¾ in	**44ZF20**
	20 ft.	200 psi	¾ in x ¾ in	**44ZF56**
1"	10 ft.	150 psi	1 in x 1 in	**44ZF06**
	20 ft.	150 psi	1 in x 1 in	**44ZE95**
Pumpflex II, Hardwall MNPT x MNPT				
⅝"	10 ft.	200 psi	¾ in x ¾ in	**44ZF38**
	17 ft.	200 psi	¾ in x ¾ in	**44ZF60**
	20 ft.	200 psi	¾ in x ¾ in	**44ZF51**
¾"	10 ft.	200 psi	¾ in x ¾ in	**44ZG20**
	12 ft.	200 psi	¾ in x ¾ in	**44ZF63**
	14 ft.	200 psi	¾ in x ¾ in	**44ZE75**
	20 ft.	200 psi	¾ in x ¾ in	**44ZF35**
	12 ft.	60 psi	¾ in x ¾ in	**44ZE87**

EATON

45CV37

Nitrile Blend Oil and Gas Exploration Hose Assemblies with Corrugated Synthetic Rubber Cover

- Temp. range: -22° to 176°F
- Max. working pressure: 150 psi
- Cam and Groove C x Cam and Groove E Fitting
- Hose length: 20 ft.

Inside Dia.	Fitting Size	Item No.
1½"	1½ in x 1½ in	**45CV37**
2½"	2½ in x 2½ in	**45CV39**
2"	2 in x 2 in	**45CV38**
3"	3 in x 3 in	**45CV40**
4"	4 in x 4 in	**45CV41**

Stainless Steel Fuel Hose Assemblies for Natural Gas

PENFLEX

- Max. pressure: 350 psi
- Max. temp.: 1500°F

321 stainless steel hose material, with a 304 stainless steel braid. Fittings are permanently welded to the metal hose. Commonly used for natural gas and propane applications in the petrochemical industry, and in mills and refineries. Meet CSA and CGA CR96-001.

4DXW8

Fitting Size	Hose I.D.	Dynamic Min. Bend Radius	Hose Length 4 ft Item No.	5 ft Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.
FJIC x MNPT								
¾ in x ½ in	½ in	6 in	**4DXX3**	**4DXX4**	**4DXW8**	**4DXW9**	**4DXX1**	**4DXX2**
1¹⁄₁₆ in x ¾ in	¾ in	8 in	**4DXX9**	**4DXY1**	**4DXX5**	**4DXX6**	**4DXX7**	**4DXX8**
1¹⁄₁₆ in x 1 in	1 in	9 in	**4DXY6**	**4DXY7**	**4DXY2**	**4DXY3**	**4DXY4**	**4DXY5**
1⅝ in x 1¼ in	1 ¼ in	10.5 in	**4DXZ3**	**4DXZ4**	**4DXY8**	**4DXY9**	**4DXZ1**	**4DXZ2**
1⅞ in x 1½ in	1 ½ in	12 in	**4DXZ9**	**4DYA1**	**4DXZ5**	**4DXZ6**	**4DXZ7**	**4DXZ8**
2½ in x 2 in	2 in	15 in	**4DYA6**	**4DYA7**	**4DYA2**	**4DYA3**	**4DYA4**	**4DYA5**

Fitting Size	Hose I.D.	Dynamic Min. Bend Radius	Hose Length 4 ft Item No.	5 ft Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.
MNPT x MNPT								
½ in x ½ in	½ in	6 in	**4DYC3**	**4DYC4**	**4DYA8**	**4DYA9**	**4DYC1**	**4DYC2**
¾ in x ¾ in	¾ in	8 in	**4DYC9**	**4DYD1**	**4DYC5**	**4DYC6**	**4DYC7**	**4DYC8**
1 in x 1 in	1 in	9 in	**4DYD6**	**4DYD7**	**4DYD2**	**4DYD3**	**4DYD4**	**4DYD5**
1¼ in x 1¼ in	1 ¼ in	10.5 in	**4DYE3**	**4DYE4**	**4DYD8**	**4DYD9**	**4DYE1**	**4DYE2**
1½ in x 1½ in	1 ½ in	12 in	**4DYE9**	**4DYF1**	**4DYE5**	**4DYE6**	**4DYE7**	**4DYE8**
2 in x 2 in	2 in	15 in	**4DYF6**	**4DYF7**	**4DYF2**	**4DYF3**	**4DYF4**	**4DYF5**

Chemical Hose Assemblies

- Temp. range.: -65° to 450°F

These PTFE (polytetrafluoroethylene) chemical hose assemblies are used in the cosmetics, pharmaceutical, chemical, and food industries. They comply with FDA requirements for use with food products. The hoses' PTFE tube provides excellent temperature and chemical resistance and maintains its integrity after exposure to thermocycling processes. The PTFE tube also has a low coefficient of friction to maintain high flow rates and provide easy cleaning. The hoses' EPDM (ethylene propylene diene monomer) cover provides excellent resistance to ozone and abrasion and offers good resistance to heat and chemicals.

PTFE Chemical Hose Assemblies with (M)NPT Fittings—These hoses have male NPT (National Pipe Taper) fittings on their ends. The fittings have tapered threads that create a tight seal when connected to compatible equipment.

PTFE Chemical Hose Assemblies with (F) JIC Fittings—These hoses have female JIC (Joint Industrial Committee) fittings on their ends. JIC fittings have straight threads and a 37° flare seat that create a tight seal when connected to compatible equipment.

Hose I.D.	Hose Fittings*	Max. Working Pressure @ 70°F	Std.	Hose Length: 12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.	4 ft Item No.	5 ft Item No.
PTFE Chemical Hose Assemblies with (M)NPT Fittings									
3/16 in	301 SS 1/8 in x 301 SS 1/8 in	3,000 psi	PTFE Tube-FDA, SAE 100R14	**4DXU2**	**4DXU3**	—	—	—	—
3/16 in	301 SS 1/8 in x 301 SS 1/8 in	3,000 psi	FDA 41, SAE100R14	—	—	**4DXU4**	**4DXU5**	**4DXU6**	**4DXU7**
3/16 in	Brass 1/8 in x Brass 1/8 in	3,000 psi	PTFE Tube-FDA, SAE 100R14	**4DXP5**	**4DXP6**	**4DXP7**	**4DXP8**	**4DXP9**	**4DXR1**
5/16 in	301 SS 1/4 in x 301 SS 1/4 in	2,500 psi	PTFE Tube-FDA, SAE 100R14	**4DXU8**	**4DXU9**	**4DXV1**	**4DXV2**	**4DXV3**	**4DXV4**
5/16 in	301 SS 1/4 in x 301 SS 1/4 in	3,000 psi	FDA 41, SAE100R14	**4DXV8**	—	—	—	—	—
5/16 in	Brass 1/4 in x Brass 1/4 in	2,500 psi	PTFE Tube-FDA, SAE 100R14	**4DXR2**	**4DXR3**	**4DXR4**	**4DXR5**	**4DXR6**	**4DXR7**
3/8 in	301 SS 3/8 in x 301 SS 3/8 in	2,000 psi	PTFE Tube-FDA, SAE 100R14	**4DXV5**	**4DXV6**	**4DXV7**	—	**4DXV9**	**4DXW1**
3/8 in	Brass 3/8 in x Brass 3/8 in	2,000 psi	PTFE Tube-FDA, SAE 100R14	**4DXR8**	**4DXR9**	**4DXT1**	**4DXT2**	**4DXT3**	**4DXT4**
1/2 in	301 SS 1/2 in x 301 SS 1/2 in	3,000 psi	FDA 41, SAE100R14	—	**4DXW3**	—	—	—	—
1/2 in	301 SS 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	**4DXW2**	—	**4DXW4**	**4DXW5**	—	—
1/2 in	Brass 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	**4DXT5**	**4DXT6**	**4DXT7**	**4DXT8**	**4DXW6**	**4DXU1**
1/2 in	Brass 1/2 in x Brass 1/2 in	1,500 psi	PTFE Tube-FDA, SAE 100R14	—	—	—	—	**4DXT9**	**4DXW7**
PTFE Chemical Hose Assemblies with (F)JIC Fittings									
3/16 in	301 SS 7/16 in x 301 SS 7/16 in	3,000 psi	FDA 41, SAE100R14	**1PBK1**	**1PBK2**	**1PCG2**	**1PCG4**	**1PCG6**	**1PCG8**
3/16 in	Brass 7/16 in x Brass 7/16 in	3,000 psi	FDA 41, SAE100R14	**1PCL6**	**1PCL7**	**1PCL8**	**1PCL9**	**1PCN1**	**1PCN2**
5/16 in	301 SS 9/16 in x 301 SS 9/16 in	2,500 psi	FDA 41, SAE100R14	**1PCH1**	**1PCH3**	**1PCH5**	**1PCH7**	**1PCH9**	**1PCJ2**
5/16 in	Brass 7/16 in x Brass 9/16 in	2,500 psi	FDA 41, SAE100R14	**1PCN3**	—	—	—	—	—
5/16 in	Brass 9/16 in x Brass 9/16 in	2,500 psi	FDA 41, SAE100R14	—	**1PCN4**	**1PCN5**	**1PCN6**	**1PCN7**	**1PCN8**
3/8 in	301 SS 3/4 in x 301 SS 3/4 in	2,000 psi	FDA 41, SAE100R14	**1PCJ4**	**1PCJ6**	**1PCJ8**	**1PCK1**	**1PCK3**	**1PCK5**
3/8 in	Brass 3/4 in x Brass 3/4 in	2,000 psi	FDA 41, SAE100R14	—	**1PCP1**	**1PCP2**	**1PCP3**	**1PCP4**	**1PCP5**
3/8 in	Brass 9/16 in x Brass 9/16 in	2,000 psi	FDA 41, SAE100R14	**1PCN9**	—	—	—	—	—
1/2 in	301 SS 7/8 in x 301 SS 7/8 in	1,500 psi	FDA 41, SAE100R14	**1PCK7**	**1PCK9**	**1PCL2**	**1PCL3**	**1PCL4**	**1PCL5**
1/2 in	Brass 3/4 in x Brass 3/4 in	1,500 psi	FDA 41, SAE100R14	**1PCP6**	—	—	—	—	—
1/2 in	Brass 7/8 in x Brass 7/8 in	1,500 psi	FDA 41, SAE100R14	—	**1PCP7**	**1PCP8**	**1PCP9**	**1PCR1**	**1PCR2**

** SS = Stainless Steel.*

Chemical Hose

- 4:1 safety factor

CHEMFLEX

- Max. pressure: 500 psi for 44ZF07, 44ZF59, 44ZF87, 44ZF82; 450 psi for 44ZF23, 44ZE84; 300 psi for 44ZG01, 44ZG21
- Temp range: -40° to 300°F continuous
- Blue color

PTFE constructed hose with EPDM cover is chemical-resistant and handles a broad range of temperatures. For use in the cosmetics, pharmaceutical, chemical and food industry where chemical compatibility is critical.

CHEMCAT™

- Max. pressure: 300 psi
- Temp range: -40° to 250°F
- Green color

Ultra-High Molecular Weight Polyethylene (UHMW-PE) tube handles acids, chemicals, solvents, and petroleum products. Green EPDM cover helps protect the fiber reinforcement and helix wires from harsh industrial environments.

Inside Dia.	Bend Radius	Fittings	10 FT. Item No.	20 FT. Item No.
Chemflex				
1/2 in	4 in	1/2" Stainless Steel, Cam and Groove	**44ZF07**	**44ZF87**
1 in	6 in	1" Stainless Steel, Cam and Groove	**44ZF23**	**44ZE84**
3/4 in	4 1/2 in	3/4" Stainless Steel, Cam and Groove	**44ZE82**	**44ZF59**
1 1/2 in	9 in	1 1/2" Stainless Steel, Cam and Groove	**44ZG21**	**44ZG01**
Chemcat™				
1 1/2 in	7 1/2 in	1 1/2" Stainless Steel, Cam and Groove	**44ZE77**	**44ZF19**
3 in	9 in	3" Stainless Steel, Cam and Groove	**44ZF40**	**44ZE78**
2 in	8 in	2" Stainless Steel, Cam and Groove	**44ZF98**	**44ZF46**
2 1/2 in	8 in	2 1/2" Stainless Steel, Cam and Groove	**44ZF50**	**44ZG34**
1 in	5 1/2 in	1" Stainless Steel, Cam and Groove	**44ZF90**	**44ZG28**

1ZLR5

Material Handling Hose

PVC/Thermoplastic—Handles abrasive materials including cement, fertilizers, fly ash, glass, gravel, metals, plastic pellets, rock salt, sand, and slurries where material may have some moisture. Meet RMA Class B standard.

Thermoplastic—For use in the dry pneumatic conveying of highly abrasive solids.

Dry Bulk—Ideal for transferring dry abrasive materials such as bottle caps and cleaning agents. Suitable for use in coal plants, dry cement operations, in-plant transfer, and well service applications.

Hot Air—For use in construction, hot air blowing, in plant, and non-oily applications. Can be use for dry cement and tank truck delivery operations.

Inside Dia.	Length	Outside Dia.	Max. Pressure	Color	Brand	Item No.
Bulk Hose, PVC/Thermoplastic Polyurethane Tube, PVC/Nitrile/Polyurethane Cover, Nonconductive, -30 to 158°F						
1 1/2"	25 ft.	1 29/32"	40 psi	Black	Continental	**1ZLH9**
2"	25 ft.	2 1/2"	40 psi	Black	Continental	**4XR65**
3"	25 ft.	3 49/64"	30 psi	Black	Continental	**4XR66**
4"	25 ft.	4 55/64"	30 psi	Black	Continental	**4XR67**
Bulk Hose, Thermoplastic Polyurethane Tube, PVC/Nitrile Cover, 0 to 158°F						
1 1/2"	100 ft.	1 29/32"	50 psi	Blue	Continental	**1ZLR5**
2"	100 ft.	2 45/64"	50 psi	Blue	Continental	**1ZLR6**
3"	50 ft.	3 19/32"	40 psi	Blue	Continental	**1ZLR7**
4"	50 ft.	4 51/64"	35 psi	Blue	Continental	**1ZLR8**
Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F						
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	**48RJ51** *
5"	20 ft.	5 43/64"	75 psi	Black	Eaton	**48RJ52** *
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	**48RJ53** *
5"	20 ft.	5 51/64"	75 psi	Black	Eaton	**48RJ54** *
4"	20 ft.	4 39/64"	75 psi	Black	Eaton	**48RJ57** †
5"	20 ft.	5 43/64"	75 psi	Black	Eaton	**48RJ58** †
	20 ft.	5 51/64"	75 psi	Black	Eaton	**48RJ60** †
4"	20 ft.	4 1/32"	75 psi	Black	Eaton	**48RJ59** †
Bulk Hose, Dry Bulk, Rubber Tube, Styrene Butadiene Rubber Cover, -40 to 158°F						
4"	100 ft.	4 39/64"	75 psi	Black	Eaton	**48RJ45**
5"	100 ft.	5 43/64"	75 psi	Black	Eaton	**48RJ46**
4"	100 ft.	4 1/32"	75 psi	Black	Eaton	**48RJ47**
5"	100 ft.	5 51/64"	75 psi	Black	Eaton	**48RJ48**
Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F						
3"	20 ft.	3 9/16"	150 psi	Brown	Eaton	**48RJ55** *
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	**48RJ56** *
3"	20 ft.	3 9/16"	150 psi	Brown	Eaton	**48RJ61** †
4"	20 ft.	4 19/32"	100 psi	Brown	Eaton	**48RJ62** †
Bulk Hose, Hot Air Hose, Dry Bulk, Rubber Tube, EPDM Cover, -40 to 158°F						
3"	100 ft.	3 9/16"	150 psi	Brown	Eaton	**48RJ49**
4"	100 ft.	4 19/32"	100 psi	Brown	Eaton	**48RJ50**

** Aluminum male x female cam & groove fitting type. † Aluminum female x female cam & groove fitting type.*

55CD72

Continental ContiTech

Nutriflo PVC Food & Beverage Hose Assemblies with Smooth PVC Cover

- Temp. range: -25° to 230° F
- Safety factor: 4:1

Nutriflo PVC (polyvinyl chloride) food and beverage hose assemblies have a smooth PVC cover and are suitable for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses can handle higher pressures than Nutriflex PVC food and beverage hoses with corrugated covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Item No.
Clear, PVC Coupled Assembly				
¾ in	3 ft	1 in	3 in	**55CD16**
¾ in	5 ft	1 in	3 in	**55CD17**
¾ in	8 ft	1 in	3 in	**55CD18**
¾ in	10 ft	1 in	3 in	**55CD19**
¾ in	15 ft	1 in	3 in	**55CD20**
¾ in	20 ft	1 in	3 in	**55CD21**
¾ in	25 ft	1 in	3 in	**55CD22**
1 in	3 ft	1 5/16 in	2 in	**55CD72**
1 in	3 ft	1 5/16 in	2 in	**55CE01**
1 in	5 ft	1 5/16 in	2 in	**55CD73**
1 in	5 ft	1 5/16 in	2 in	**55CE02**
1 in	8 ft	1 5/16 in	2 in	**55CD74**
1 in	8 ft	1 5/16 in	2 in	**55CE03**
1 in	10 ft	1 5/16 in	2 in	**55CD75**
1 in	10 ft	1 5/16 in	2 in	**55CE04**
1 in	15 ft	1 5/16 in	2 in	**55CD76**
1 in	15 ft	1 5/16 in	2 in	**55CE05**
1 in	20 ft	1 5/16 in	2 in	**55CD77**
1 in	20 ft	1 5/16 in	2 in	**55CE06**
1 in	25 ft	1 5/16 in	2 in	**55CD78**
1 in	25 ft	1 5/16 in	2 in	**55CE07**
1 in	3 ft	1 ¼ in	5 in	**55CD23**
1 in	3 ft	1 ¼ in	5 in	**55CD51**
1 in	5 ft	1 ¼ in	5 in	**55CD24**
1 in	5 ft	1 ¼ in	5 in	**55CD52**
1 in	8 ft	1 ¼ in	5 in	**55CD25**
1 in	8 ft	1 ¼ in	5 in	**55CD53**
1 in	10 ft	1 ¼ in	5 in	**55CD26**
1 in	10 ft	1 ¼ in	5 in	**55CD54**
1 in	15 ft	1 ¼ in	5 in	**55CD27**
1 in	15 ft	1 ¼ in	5 in	**55CD55**
1 in	20 ft	1 ¼ in	5 in	**55CD28**
1 in	20 ft	1 ¼ in	5 in	**55CD56**
1 in	25 ft	1 ¼ in	5 in	**55CD29**
1 in	25 ft	1 ¼ in	5 in	**55CD57**
1 ½ in	3 ft	1 7/8 in	4 in	**55CD79**
1 ½ in	3 ft	1 7/8 in	4 in	**55CE08**
1 ½ in	5 ft	1 7/8 in	4 in	**55CD80**
1 ½ in	5 ft	1 7/8 in	4 in	**55CE09**
1 ½ in	8 ft	1 7/8 in	4 in	**55CD81**
1 ½ in	8 ft	1 7/8 in	4 in	**55CE10**
1 ½ in	10 ft	1 7/8 in	4 in	**55CD82**
1 ½ in	10 ft	1 7/8 in	4 in	**55CE11**
1 ½ in	15 ft	1 7/8 in	4 in	**55CD83**
1 ½ in	15 ft	1 7/8 in	4 in	**55CE12**
1 ½ in	20 ft	1 7/8 in	4 in	**55CD84**
1 ½ in	20 ft	1 7/8 in	4 in	**55CE13**
1 ½ in	25 ft	1 7/8 in	4 in	**55CD85**
1 ½ in	25 ft	1 7/8 in	4 in	**55CE14**
1 ½ in	3 ft	1 13/16 in	6 in	**55CD30**
1 ½ in	3 ft	1 13/16 in	6 in	**55CD58**
1 ½ in	5 ft	1 13/16 in	6 in	**55CD31**
1 ½ in	5 ft	1 13/16 in	6 in	**55CD59**
1 ½ in	8 ft	1 13/16 in	6 in	**55CD32**
1 ½ in	8 ft	1 13/16 in	6 in	**55CD60**
1 ½ in	10 ft	1 13/16 in	6 in	**55CD33**
1 ½ in	10 ft	1 13/16 in	6 in	**55CD61**
1 ½ in	15 ft	1 13/16 in	6 in	**55CD34**
1 ½ in	15 ft	1 13/16 in	6 in	**55CD62**
1 ½ in	20 ft	1 13/16 in	6 in	**55CD35**
1 ½ in	20 ft	1 13/16 in	6 in	**55CD63**
1 ½ in	25 ft	1 13/16 in	6 in	**55CD36**
1 ½ in	25 ft	1 13/16 in	6 in	**55CD64**
2 in	3 ft	2 7/16 in	4 in	**55CE15**
2 in	3 ft	2 7/16 in	4 in	**55CD86**
2 in	5 ft	2 7/16 in	4 in	**55CE16**
2 in	5 ft	2 7/16 in	4 in	**55CD87**
2 in	8 ft	2 7/16 in	4 in	**55CE17**
2 in	8 ft	2 7/16 in	4 in	**55CD88**
2 in	10 ft	2 7/16 in	4 in	**55CD89**
2 in	10 ft	2 7/16 in	4 in	**55CE18**
2 in	15 ft	2 7/16 in	4 in	**55CD90**
2 in	15 ft	2 7/16 in	4 in	**55CE19**
2 in	20 ft	2 7/16 in	4 in	**55CD91**
2 in	20 ft	2 7/16 in	4 in	**55CE20**
2 in	25 ft	2 7/16 in	4 in	**55CD92**
2 in	25 ft	2 7/16 in	4 in	**55CE21**
2 in	3 ft	2 ⅜ in	8 in	**55CD37**
2 in	3 ft	2 ⅜ in	8 in	**55CD65**
2 in	5 ft	2 ⅜ in	8 in	**55CD38**
2 in	5 ft	2 ⅜ in	8 in	**55CD66**
2 in	8 ft	2 ⅜ in	8 in	**55CD39**
2 in	8 ft	2 ⅜ in	8 in	**55CD67**
2 in	10 ft	2 ⅜ in	8 in	**55CD40**
2 in	10 ft	2 ⅜ in	8 in	**55CD68**
2 in	15 ft	2 ⅜ in	8 in	**55CD41**
2 in	15 ft	2 ⅜ in	8 in	**55CD69**
2 in	20 ft	2 ⅜ in	8 in	**55CD42**
2 in	20 ft	2 ⅜ in	8 in	**55CD70**
2 in	25 ft	2 ⅜ in	8 in	**55CD43**
2 in	25 ft	2 ⅜ in	8 in	**55CD71**
3 in	3 ft	3 9/16 in	7 in	**55CD93**
3 in	5 ft	3 9/16 in	7 in	**55CD94**
3 in	8 ft	3 9/16 in	7 in	**55CD95**
3 in	10 ft	3 9/16 in	7 in	**55CD96**
3 in	15 ft	3 9/16 in	7 in	**55CD97**
3 in	20 ft	3 9/16 in	7 in	**55CD98**
3 in	25 ft	3 9/16 in	7 in	**55CD99**
3 in	3 ft	3 ½ in	12 in	**55CD44**
3 in	5 ft	3 ½ in	12 in	**55CD45**
3 in	8 ft	3 ½ in	12 in	**55CD46**
3 in	10 ft	3 ½ in	12 in	**55CD47**
3 in	15 ft	3 ½ in	12 in	**55CD48**
3 in	20 ft	3 ½ in	12 in	**55CD49**
3 in	25 ft	3 ½ in	12 in	**55CD50**

Bulk Food & Beverage Hoses

45CW46

Noncontaminating hoses are constructed with FDA and USDA-compliant food grade materials. Hose features static wire and is suitable for dry food transfer. Heavy-duty hose is noncorrugated and has higher pressure.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Safety Factor	Item No.
Clear, PVC						
¾"	50 ft	15/16 in	3 in	115 psi	3:1	**55AU70**
¾"	100 ft	—	3 in	115 psi	4:1	**45CW46**
¾"	100 ft	15/16 in	3 in	115 psi	3:1	**55AU71**
1"	50 ft	1 19/64 in	2 in	55 psi	3:1	**55AU72**
1 ¼"	100 ft	—	4 in	50 psi	4:01	**45EE62**
1"	100 ft	1 19/64 in	2 in	55 psi	3:1	**55AU73**
2"	50 ft	2 13/62 in	4 in	40 psi	3:1	**55AU74**
2"	100 ft	2 13/62 in	4 in	40 psi	3:1	**55AU75**
3"	50 ft	3 41/64 in	6 in	40 psi	3:1	**55AU76**
3"	100 ft	—	6 in	40 psi	4:1	**45EE59**
3"	100 ft	3 41/64 in	6 in	40 psi	3:1	**55AU77**

Nutriflo PVC Bulk Food & Beverage Hoses

Continental ContiTech

- Safety factor: 3:1

55AW09

Nutriflo PVC (polyvinyl chloride) bulk food and beverage hoses have a smooth PVC cover and are suitable for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses can handle higher pressures than Nutriflex PVC bulk food and beverage hoses with corrugated covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Item No.
Clear, PVC					
¾"	10 ft	1 in	3 in	120 psi	**55AV87**
¾"	25 ft	1 in	3 in	120 psi	**55AV88**
¾"	50 ft	1 in	3 in	120 psi	**55AV89**
1"	10 ft	1 ¼ in	5 in	106 psi	**55AV90**
1"	25 ft	1 ¼ in	5 in	106 psi	**55AV91**
1"	50 ft	1 ¼ in	5 in	106 psi	**55AV92**
1 ¼"	10 ft	1 9/16 in	5 in	99 psi	**55AV93**
1 ¼"	25 ft	1 9/16 in	5 in	99 psi	**55AV94**
1 ¼"	100 ft	—	5 in	99 psi	**3JT90**
1 ¼"	50 ft	1 9/16 in	5 in	99 psi	**55AV95**
1 ½"	10 ft	1 13/16 in	6 in	89 psi	**55AV96**
1 ½"	25 ft	1 13/16 in	6 in	89 psi	**55AV97**
1 ½"	50 ft	1 13/16 in	6 in	89 psi	**55AV98**
2 ½"	100 ft	—	10 in	65 psi	**3JT93**
2"	10 ft	2 ⅜ in	8 in	79 psi	**55AV99**
2"	25 ft	2 ⅜ in	8 in	79 psi	**55AW01**
2"	50 ft	2 ⅜ in	8 in	79 psi	**55AW02**
3"	100 ft	—	12 in	65 psi	**3JT94**
3"	10 ft	3 ½ in	12 in	65 psi	**55AW03**
3"	25 ft	3 ½ in	12 in	65 psi	**55AW04**
3"	50 ft	3 ½ in	12 in	65 psi	**55AW05**
4"	100 ft	—	16 in	55 psi	**3JT95**
4"	10 ft	4 ½ in	16 in	55 psi	**55AW06**
4"	25 ft	4 ½ in	16 in	55 psi	**55AW07**
4"	50 ft	4 ½ in	16 in	55 psi	**55AW08**
Clear with White Spiral, PVC					
1"	10 ft	1 5/16 in	2 in	60 psi	**55AW09**
1"	25 ft	1 5/16 in	2 in	60 psi	**55AW10**
1"	50 ft	1 5/16 in	2 in	60 psi	**55AW11**
1 ¼"	10 ft	1 9/16 in	3 in	50 psi	**55AW12**
1 ¼"	25 ft	1 9/16 in	3 in	50 psi	**55AW13**
1 ¼"	50 ft	1 9/16 in	3 in	50 psi	**55AW14**
1 ½"	10 ft	1 ⅞ in	4 in	50 psi	**55AW15**
1 ½"	25 ft	1 ⅞ in	4 in	50 psi	**55AW16**
1 ½"	50 ft	1 ⅞ in	4 in	50 psi	**55AW17**
2"	10 ft	2 7/16 in	4 in	40 psi	**55AW18**
2"	25 ft	2 7/16 in	4 in	40 psi	**55AW19**
2"	50 ft	2 7/16 in	4 in	40 psi	**55AW20**
2 ½"	10 ft	3 1/16 in	5 in	35 psi	**55AW21**
2 ½"	25 ft	3 1/16 in	5 in	35 psi	**55AW22**
2 ½"	50 ft	3 1/16 in	5 in	35 psi	**55AW23**
3"	10 ft	3 9/16 in	7 in	35 psi	**55AW24**
3"	25 ft	3 9/16 in	7 in	35 psi	**55AW25**
3"	50 ft	3 9/16 in	7 in	35 psi	**55AW26**
4"	10 ft	4 ¾ in	10 in	35 psi	**55AW27**
4"	25 ft	4 ¾ in	10 in	35 psi	**55AW28**
4"	50 ft	4 ¾ in	10 in	35 psi	**55AW29**

Nutriflex PVC Bulk Food & Beverage Hoses with Corrugated PVC Cover

Continental ContiTech

45EE58

Nutriflex PVC (polyvinyl chloride) bulk food and beverage hoses have a corrugated PVC cover and are designed for transferring dry foods and liquids in gravity-flow and vacuum-service applications. These hoses are more flexible than Nutriflo PVC bulk food and beverage hoses with smooth covers. They are well suited for transferring raw and pasteurized milk and other dairy items with high water content.

Hose I.D.	Hose Length	Hose Outside Dia.	Bend Radius	Max. Working Pressure @ 70°F	Safety Factor	Item No.
Clear, PVC						
Continental						
2"	100 ft	—	4 in	40 psi	3:1	**1ZLT5**
3"	100 ft	—	7 in	35 psi	3:1	**1ZLT6**
Kuriyama						
1"	100 ft	1 23/64 in	3 in	55 psi	3:1	**55AU79**
1"	50 ft	1 23/64 in	3 in	55 psi	3:1	**55AU78**
1 ½"	100 ft	—	3 in	55 psi	4:1	**45EE57**
2"	100 ft	—	4 in	50 psi	4:1	**45EE58**
2 ½"	100 ft	—	8 in	65 psi	4:1	**45CW99**
2"	100 ft	2 31/64 in	4 in	40 psi	3:1	**55AU81**
2"	50 ft	2 31/64 in	4 in	40 psi	3:1	**55AU80**
3"	100 ft	3 41/64 in	6 in	40 psi	3:1	**55AU83**
3"	50 ft	3 41/64 in	6 in	40 psi	3:1	**55AU82**
4"	100 ft	—	8 in	45 psi	4:1	**45EE60**
5"	20 ft	—	16 in	30 psi	4:1	**45CW48**
6"	20 ft	—	25 in	40 psi	4:1	**45CW47**

HI-TECH DURAVENT
Flexible Hose & Ducting

Flexflyte Fiberglass Duct Hose

2RY76

Neoprene-coated fiberglass duct hoses are used to blow or exhaust hot air for pellet drying applications in the plastics-processing industry. These lightweight, flexible hoses are flame-retardant and self-extinguishing. They can handle fumes at low pressures and moderately high temperatures, but they are not recommended for applications with continuous flexing, liquids, or abrasives.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	L-1 BLACK Item No.	L-9 ORANGE Item No.
¾ in	12 ft	0.7 in	28 psi	28.00 in Hg	**2RY76**	**2RY61**
1 in	12 ft	0.9 in	28 psi	28.00 in Hg	**2RY77**	**2RY62**
1 ¼ in	12 ft	1.2 in	26 psi	26.00 in Hg	**2RY78**	**2RY63**
1 ½ in	12 ft	1.5 in	25 psi	24.00 in Hg	**2RY79**	**2RY64**
1 ¾ in	12 ft	1.7 in	24 psi	22.00 in Hg	**2RY80**	**2RY65**
2 in	12 ft	1.9 in	23 psi	20.00 in Hg	**2RY81**	—
2 in	12 ft	1.9 in	24 psi	20.00 in Hg	—	**2RY66**
2 ¼ in	12 ft	2.2 in	21 psi	19.00 in Hg	**2RY82**	**2RY67**
2 ½ in	12 ft	2.4 in	20 psi	18.00 in Hg	**2RY83**	**2RY68**
3 in	12 ft	2.9 in	19 psi	16.00 in Hg	**2RY84**	**2RY69**
4 in	12 ft	3.9 in	16 psi	13.00 in Hg	**2RY85**	**2RY70**
5 in	12 ft	4.9 in	14 psi	10.00 in Hg	**2RY86**	**2RY71**
6 in	12 ft	5.9 in	11 psi	7.00 in Hg	**2RY87**	**2RY72**
8 in	12 ft	7.8 in	7 psi	3.00 in Hg	**2RY88**	**2RY73**
10 in	12 ft	9.8 in	5 psi	1.50 in Hg	**2RY89**	**2RY74**
12 in	12 ft	11.8 in	4 psi	1.00 in Hg	**2RY90**	**2RY75**

FLEXFLYTE FIBERGLASS
- Temp. range: -75° to 500°F (L-9); -65° to 300°F (L-1)
- Fiberglass reinforced, smooth bore
- High temp. applications

Flexible hose has helical support. L-9 hose has 2-ply silicone fiberglass; L-1 hose is 2-ply neoprene fiberglass.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	25 FT. LENGTH Item No.
3 in	25 ft	0.8 in	0.4 psi	9.00 in Hg	**2TA60**
4 in	25 ft	1.0 in	0.4 psi	7.00 in Hg	**2TA61**
5 in	25 ft	1.3 in	0.4 psi	4.00 in Hg	**2TA62**
6 in	25 ft	1.5 in	0.4 psi	2.20 in Hg	**2TA63**
8 in	25 ft	2.0 in	0.4 psi	0.70 in Hg	**2TA64**
10 in	25 ft	2.5 in	0.4 psi	0.30 in Hg	**2TA65**
12 in	25 ft	3.0 in	0.4 psi	0.20 in Hg	**2TA66**

FLEXFLYTE VF PVC-COATED FIBERGLASS - GRAY
- Temp. range: -20° to 200°F

Flexible material has PVC-coated wire helix. Ideal for low-pressure air.

HI-TECH DURAVENT
Flexible Hose & Ducting

Industrial Ducting Hose

3AXY7

Reinforced PVC (polyvinyl chloride) duct hoses are used for moving large volumes of air in chemical fume-removal, general fume-removal, and solvent-ventilation applications in the food-manufacturing, chemical-manufacturing, pharmaceutical, industrial woodworking, and plastics-processing industries. These hoses can also be used for low-vacuum applications on dust-cleaning equipment. These hoses resist damage from chemicals and moisture, and they are made from transparent material that lets users see what's in the tube. The hoses are highly compressible, which saves space when transporting them.

ARD COMPRESSIBLE PVC
- Temp. range: -20° to 180°F
- Highly compressible

Sturdy, flexible PVC wall construction reinforced with spring wire helix provides an economical choice for positive airflow.

HTR HEATER/DEFROSTER
- Temp. range: -40° to 225°F
- Crush-resistant
- Compressible for storage

Lightweight hose is constructed from a polypropylene wall, reinforced with polypropylene rod helix. An economical choice for air, dust, and fume applications.

Hose I.D.	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	25 FT. LENGTH Item No.	50 FT. LENGTH Item No.
ARD Compressible PVC - Clear For Air Applications					
6 in	4 in	7 psi	6.00 in Hg	**3AXY7**	—
8 in	6 in	7 psi	2.50 in Hg	**3AXY8**	—
10 in	8 in	5 psi	1.75 in Hg	**3AXY9**	—
12 in	9.5 in	3 psi	1.25 in Hg	**3AXZ1**	—
14 in	10.5 in	2 psi	1.50 in Hg	**3AXZ2**	—
16 in	11.5 in	1 psi	1.50 in Hg	**3AXZ3**	—
18 in	12.5 in	1 psi	1.50 in Hg	**3AXZ4**	—
HTR Heater-Defroster - Black For Air Applications					
1 in	1.3 in	11 psi	Not Rated	**3AYG5**	**3AYH3**
1 ¼ in	1.8 in	10 psi	Not Rated	**3AYG6**	**3AYH4**
1 ½ in	2.3 in	10 psi	Not Rated	**3AYG7**	**3AYH5**
2 in	3.3 in	10 psi	Not Rated	**3AYG8**	**3AYH6**
2 ½ in	4 in	9 psi	Not Rated	**3AYG9**	**3AYH7**
3 in	4.5 in	8 psi	Not Rated	**3AYH1**	**3AYH8**
4 in	4.8 in	3 psi	Not Rated	**3AYH2**	**3AYH9**

1PV-EP-HM Vinyl Blower Hose with Wear Strip 3WB42

HI-TECH DURAVENT
Flexible Hose & Ducting

Blower Hose

Neoprene-coated polyester duct hoses are used to blow or exhaust air for dehumidification, enclosed space ventilation, portable air conditioner, preconditioned air, and general ventilation applications in foundries, municipalities, shipyards, and the aerospace and facility-service industries. These flexible hoses are flame-retardant and self-extinguishing. They also have an external vinyl-coated wear strip that protects the hose from abrasion when dragged. The hoses are highly compressible, which saves space when transporting them.

1PN-EP-HM NEOPRENE BLOWER HOSE WITH WEAR STRIP
- Operating temp. range: -40°F to 250°F

1-ply, neoprene-coated polyester fabric material with a wire helix reinforcement and an extruded external wear strip. Suitable for heavy-duty positive airflow and for use in cooling, exhaust, and heating/temporary heating applications.

Note: Hose and air mover sold separately.

1PV-EP-HM VINYL BLOWER HOSE WITH WEAR STRIP
- Operating temp. range: -20° to 180°F

Hose is compressible from 15 ft. to 11". Vinyl-on-polyester fabric construction is protected with a vulcanized wear strip. Includes sewn cuff, belt, and buckle on each end. For positive airflow applications.

1PV-EPW-HT HI-TEMP BLOWER HOSE
- Operating temp. range: -65° to 325°F
- Mediumweight
- Flexible and compressible

Ideal for positive airflow applications in heating rooms, confined spaces, tents, and buildings. Durable ducting fabric uses a 100% heat-set fiberglass base substrate laminated to a specially formulated PVC alloy.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
1PN-EP-HM Neoprene Blower Hose with Wear Strip - Yellow/Black					
6 in	15 ft	3.5 in	8 psi	Not Rated	**40ME75**
6 in	25 ft	3.5 in	8 psi	Not Rated	**52DE80**
8 in	15 ft	5 in	6 psi	Not Rated	**40ME78**
12 in	15 ft	7.5 in	3 psi	Not Rated	**40ME79**
12 in	25 ft	7.5 in	3 psi	Not Rated	**52DE82**
14 in	15 ft	8.5 in	2.5 psi	Not Rated	**40ME80**
16 in	15 ft	9.5 in	2 psi	Not Rated	**40ME74**
16 in	25 ft	9.5 in	2 psi	Not Rated	**52DE84**
18 in	15 ft	10.5 in	2 psi	Not Rated	**40ME81**
18 in	25 ft	10.5 in	2 psi	Not Rated	**52DE85**
20 in	15 ft	12 in	1 psi	Not Rated	**40ME77**
20 in	25 ft	12 in	1 psi	Not Rated	**52DE86**
1PV-EP-HM Vinyl Blower Hose with Wear Strip - Yellow/Black					
6 in	15 ft	4 in	15 psi	2.50 in Hg	**3WB42**
6 in	25 ft	3.5 in	15 psi	Not Rated	**52DE87**
8 in	15 ft	6 in	13 psi	1.50 in Hg	**3WB43**
8 in	25 ft	5 in	13 psi	Not Rated	**52DE88**
12 in	15 ft	7.3 in	10 psi	0.50 in Hg	**3WB44**
12 in	25 ft	7.5 in	10 psi	Not Rated	**52DE89**
14 in	15 ft	8.2 in	10 psi	0.50 in Hg	**3WB45**
14 in	25 ft	8.5 in	10 psi	Not Rated	**52DE90**
16 in	15 ft	9.5 in	8 psi	Not Rated	**40ME82**
16 in	25 ft	9.5 in	8 psi	Not Rated	**52DE91**
18 in	15 ft	10.5 in	5 psi	Not Rated	**40ME73**
20 in	15 ft	12 in	5 psi	Not Rated	**40ME76**
20 in	25 ft	12 in	5 psi	Not Rated	**52DE93**
1PV-EPW-HT Hi-Temp Blower Hose with Wear Strip - Yellow/Black					
8 in	25 ft	4 in	6 psi	1.50 in Hg	**3WB41**

HI-TECH DURAVENT
Flexible Hose & Ducting

DT-30 for Wood Chips and Plastic Pellets

- Temp. range: -60° to 180°F
- Abrasion-resistant urethane
- Severe service applications

2RY31

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
DT-30 Polyether Urethane Film For Wood Chip Applications					
3 in	25 ft	2.2 in	23 psi	10.00 in Hg	**2TA13**
4 in	25 ft	3.1 in	18 psi	9.00 in Hg	**2TA14**
5 in	25 ft	4 in	14 psi	7.00 in Hg	**2TA15**
6 in	25 ft	4.6 in	14 psi	5.00 in Hg	**2TA16**
8 in	25 ft	6.1 in	11 psi	2.00 in Hg	**2TA17**
10 in	25 ft	9 in	10 psi	5.00 in Hg	**2TA11**
12 in	25 ft	9.5 in	8 psi	2.00 in Hg	**2TA19**
12 in	25 ft	9.5 in	8 psi	2.00 in Hg	**2TA12**
DT-30 Urethane					
3 in	25 ft	2.2 in	23 psi	10.00 in Hg	**3WB22**
4 in	25 ft	3.1 in	18 psi	9.00 in Hg	**3WB23**
5 in	25 ft	4 in	14 psi	7.00 in Hg	**3WB24**
6 in	25 ft	4.6 in	14 psi	5.00 in Hg	**3WB25**
8 in	25 ft	6.1 in	11 psi	2.00 in Hg	**3WB26**
SDH Clear/White Plastic Helix					
1 ¼ in	25 ft	3.3 in	29 psi	29.00 in Hg	**3AXW9**
1 ¼ in	50 ft	3.3 in	29 psi	29.00 in Hg	**3AXX9**
1 ½ in	25 ft	4 in	27 psi	29.00 in Hg	**3AXX1**
1 ½ in	50 ft	4 in	27 psi	29.00 in Hg	**3AXY1**
1 ¾ in	25 ft	4.3 in	27 psi	28.00 in Hg	**3AXX2**
1 ¾ in	50 ft	4.3 in	27 psi	28.00 in Hg	**3AXY2**
2 in	25 ft	4.5 in	25 psi	27.00 in Hg	**3AXX3**
2 in	50 ft	4.5 in	25 psi	27.00 in Hg	**3AXY3**
2 ½ in	25 ft	5.5 in	23 psi	24.00 in Hg	**3AXX4**
2 ½ in	50 ft	5.5 in	23 psi	24.00 in Hg	**3AXY4**
3 in	25 ft	6 in	19 psi	20.00 in Hg	**3AXX5**
3 in	50 ft	6 in	19 psi	20.00 in Hg	**3AXY5**
4 in	25 ft	6.7 in	9 psi	15.00 in Hg	**3AXX6**
4 in	50 ft	6.7 in	9 psi	15.00 in Hg	**3AXY6**
UFD.020 Urethane - Clear					
2 in	25 ft	2.0 in	25 psi	29.00 in Hg	**3AXN5**
2 ½ in	25 ft	2.3 in	25 psi	29.00 in Hg	**3AXN6**
3 in	25 ft	2.5 in	25 psi	29.00 in Hg	**3AXN7**
4 in	25 ft	3 in	18 psi	22.00 in Hg	**3AXN8**
5 in	25 ft	3.5 in	16 psi	17.00 in Hg	**3AXN9**
6 in	25 ft	4 in	13 psi	13.00 in Hg	**3AXP1**
7 in	25 ft	5 in	13 psi	11.00 in Hg	**3AXP2**
8 in	25 ft	5.5 in	11 psi	11.00 in Hg	**3AXP3**
10 in	25 ft	6.5 in	7 psi	5.00 in Hg	**3AXP4**
12 in	25 ft	8 in	7 psi	3.00 in Hg	**3AXP5**
UFD-AP Clear/Yellow Urethane Wall/ABS Helix					
1 ½ in	25 ft	2.0 in	40 psi	28.00 in Hg	**3AXK9**
1 ½ in	50 ft	2.0 in	40 psi	28.00 in Hg	**3AXL7**
2 in	25 ft	2.3 in	34 psi	26.00 in Hg	**3AXL1**
2 in	50 ft	2.3 in	34 psi	26.00 in Hg	**3AXL8**
2 ½ in	25 ft	2.8 in	32 psi	26.00 in Hg	**3AXL2**
2 ½ in	50 ft	2.8 in	32 psi	26.00 in Hg	**3AXL9**
3 in	25 ft	3 in	31 psi	26.00 in Hg	**3AXL3**
3 in	50 ft	3 in	31 psi	26.00 in Hg	**3AXN1**
4 in	25 ft	4 in	30 psi	22.00 in Hg	**3AXL4**
4 in	50 ft	4 in	30 psi	22.00 in Hg	**3AXN2**
6 in	25 ft	6.5 in	25 psi	10.00 in Hg	**3AXL5**
6 in	50 ft	6.5 in	25 psi	10.00 in Hg	**3AXN3**
8 in	25 ft	9 in	25 psi	9.00 in Hg	**3AXL6**
UFD-SD Urethane - Clear For Wood Chip Applications					
2 in	25 ft	2.5 in	13 psi	29.00 in Hg	**3AXU9**
2 in	50 ft	2.5 in	13 psi	29.00 in Hg	**3AXV8**
3 in	25 ft	3.5 in	12 psi	29.00 in Hg	**3AXV1**
3 in	50 ft	3.5 in	12 psi	29.00 in Hg	**3AXV9**
4 in	25 ft	4.5 in	10 psi	20.00 in Hg	**3AXV2**
4 in	50 ft	4.5 in	10 psi	20.00 in Hg	**3AXW1**
5 in	25 ft	5.5 in	10 psi	15.00 in Hg	**3AXV3**
5 in	50 ft	5.5 in	10 psi	15.00 in Hg	**3AXW2**
6 in	25 ft	6.3 in	9 psi	13.00 in Hg	**3AXV4**
6 in	50 ft	6.3 in	9 psi	13.00 in Hg	**3AXW3**
8 in	25 ft	8.8 in	7 psi	10.00 in Hg	**3AXV5**
Vac-U-Flex TPU - Clear For Wood Chip Applications					
¾ in	25 ft	0.7 in	16 psi	28.00 in Hg	**2RY31**
1 in	25 ft	0.9 in	15 psi	28.00 in Hg	**2RY33**
1 ¼ in	25 ft	1.2 in	13 psi	28.00 in Hg	**2RY35**
1 ½ in	25 ft	1.5 in	10 psi	26.00 in Hg	**2RY37**
2 in	25 ft	2.0 in	8 psi	22.00 in Hg	**2RY39**
2 ½ in	25 ft	2.5 in	7 psi	20.00 in Hg	**2RY41**
3 in	25 ft	2.9 in	6 psi	16.00 in Hg	**2RY43**
4 in	25 ft	3.9 in	5 psi	12.00 in Hg	**2RY45**
5 in	25 ft	4.9 in	5 psi	10.00 in Hg	**2RY47**
6 in	25 ft	5.9 in	4 psi	7.00 in Hg	**2RY49**

2TA27

HI-TECH DURAVENT
Flexible Hose & Ducting

DT-45 URETHANE Thermoplastic Polyurethane Duct Hoses for Metal Shavings

- Temp. range: -60° to 180°F
- Abrasion-resistant urethane
- Severe service applications

Hose has hard-drawn spring steel wire helical support. DT-45 hose features medium-weight, 3-ply construction to withstand higher pressure and vacuum

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Black Item No.	Clear Item No.
DT-45 Polyether Urethane Film For Wood Chip Applications						
3 in	25 ft	3.4 in	23 psi	24.00 in Hg	**2TA27**	**2TA20**
4 in	25 ft	4.4 in	18 psi	23.00 in Hg	**2TA28**	**2TA21**
5 in	25 ft	5.2 in	14 psi	18.00 in Hg	**2TA29**	**2TA22**
6 in	25 ft	5.7 in	14 psi	14.00 in Hg	**2TA30**	**2TA23**
8 in	25 ft	7.3 in	11 psi	10.00 in Hg	**2TA31**	**2TA24**
10 in	25 ft	9.3 in	10 psi	5.00 in Hg	**2TA32**	**2TA25**
12 in	25 ft	10.3 in	8 psi	3.00 in Hg	**2TA33**	—

HI-TECH DURAVENT
Flexible Hose & Ducting

VAC-U-LOC Vacuum Hose

2RY51

- Temp. range: -65° to 140°F
- Nonwire

Flexible, moisture-resistant all-polyethylene EVA hose has self-supporting interlocked construction.

Hose I.D.	Hose Length	Max. Working Pressure @ 70°F	Vacuum Rating	Bend Radius	Item No.
Vac-U-Loc - Gray For Dust Applications					
1 ¼ in	50 ft	20 psi	20.00 in Hg	3.5 in	**2RY51**
1 ½ in	50 ft	16 psi	18.00 in Hg	4.0 in	**2RY53**
2 in	25 ft	15 psi	18.00 in Hg	4.3 in	**2RY55**
2 ½ in	25 ft	14 psi	16.00 in Hg	4.6 in	**2RY56**
3 in	25 ft	9 psi	11.00 in Hg	5.1 in	**2RY57**

3AYG2

HI-TECH DURAVENT
Flexible Hose & Ducting

Urethane Airline Lavatory Hose

- Temp. range: -60° to 160°F
- 4⅛" I.D. urethane hose with cuffs
- Translucent blue

Urethane wall, nylon helix construction is crush-, kink-, and abrasion-resistant.

Length	Bend Radius	Max. Pressure	Vacuum Rating	Item No.
Urethane Industrial Ducting Hose				
10 ft.				**3AYG2**
12 ft.	9.0"	10 psi	10.00" Hg	**3AYG3**
15 ft.				**3AYG4**

2RY91

HI-TECH DURAVENT Flexible Hose & Ducting · Continental ContiTech

Duct Hose for Dust

These thermoplastic rubber duct hoses have heavy, thick walls. They provide excellent chemical resistance and good abrasion resistance, and they also resist moisture, ozone, and UV rays. They are used for cotton harvesting, fume removal, leaf blowing, oil-mist collecting, seeding, solvent ventilation, and general ventilation applications. These hoses are suitable for applications with a wide temperature range.

Hose I.D.	Hose Length	Bend Radius	Max. Working Pressure @ 70°F	Vacuum Rating	Item No.
Dura-Flex 9025TPR - Black - Hi-Tech Duravent					
For Air Applications					
2 in	25 ft	1.9 in	31 psi	28.00 in Hg	**2RY91**
3 in	25 ft	3.5 in	28 psi	24.00 in Hg	**3WB27**
4 in	25 ft	4 in	24 psi	18.00 in Hg	**3WB28**
5 in	25 ft	5 in	20 psi	16.00 in Hg	**3WB29**
6 in	25 ft	5.5 in	18 psi	17.00 in Hg	**3WB30**
8 in	25 ft	7 in	12 psi	8.00 in Hg	**3WB31**
10 in	25 ft	7.1 in	8 psi	5.50 in Hg	**2RY92**
12 in	25 ft	8.3 in	6 psi	3.00 in Hg	**2RY93**
Vac-U-Flex TPE - Black - Hi-Tech Duravent					
For Dust Applications					
¾ in	25 ft	0.7 in	10 psi	28.00 in Hg	**2RY11**
1 in	25 ft	0.9 in	10 psi	28.00 in Hg	**2RY13**
1 ¼ in	25 ft	1.2 in	10 psi	28.00 in Hg	**2RY15**
1 ½ in	25 ft	1.5 in	10 psi	28.00 in Hg	**2RY17**
2 in	25 ft	2.0 in	10 psi	28.00 in Hg	**2RY19**
2 ½ in	25 ft	2.5 in	9 psi	28.00 in Hg	**2RY21**
3 in	25 ft	2.9 in	7 psi	28.00 in Hg	**2RY23**
4 in	25 ft	3.9 in	6 psi	28.00 in Hg	**2RY25**
5 in	25 ft	4.9 in	5 psi	18.00 in Hg	**2RY27**
6 in	25 ft	5.9 in	4 psi	10.00 in Hg	**2RY29**
Santoprene Black and Blue - Hi-Tech Duravent					
For Exhaust Applications					
3 in	25 ft	2.7 in	28 psi	24.00 in Hg	**2RY94**
4 in	25 ft	3.6 in	24 psi	18.00 in Hg	**2RY95**
5 in	25 ft	4.1 in	20 psi	16.00 in Hg	**2RY96**
6 in	25 ft	4.5 in	18 psi	17.00 in Hg	**2RY97**
8 in	25 ft	5.9 in	12 psi	8.00 in Hg	**2RY98**
10 in	25 ft	7.1 in	8 psi	5.50 in Hg	**2RY99**
12 in	25 ft	8.3 in	6 psi	3.00 in Hg	**2TA10**
RFH-Plus Fabric Reinforced - Black - Hi-Tech Duravent					
For Dust Applications					
2 in	25 ft	3.5 in	50 psi	29.00 in Hg	**3AYR1**
2 in	50 ft	3.5 in	50 psi	29.00 in Hg	**3AYU2**
2 ½ in	25 ft	4 in	36 psi	29.00 in Hg	**3AYR3**
2 ½ in	50 ft	4 in	36 psi	29.00 in Hg	**3AYU4**
3 in	25 ft	4.3 in	29 psi	28.00 in Hg	**3AYR4**
3 in	50 ft	4.3 in	29 psi	28.00 in Hg	**3AYU5**
4 in	25 ft	4.8 in	27 psi	28.00 in Hg	**3AYR6**
4 in	50 ft	4.8 in	27 psi	28.00 in Hg	**3AYU7**
5 in	25 ft	6 in	25 psi	19.00 in Hg	**3AYR8**
5 in	50 ft	6 in	25 psi	19.00 in Hg	**3AYU9**
6 in	25 ft	7.5 in	18 psi	16.00 in Hg	**3AYT1**
6 in	50 ft	7.5 in	18 psi	16.00 in Hg	**3AYV2**
7 in	25 ft	8.3 in	15 psi	15.00 in Hg	**3AYT2**
8 in	25 ft	9 in	13 psi	15.00 in Hg	**3AYT3**
8 in	50 ft	9 in	13 psi	15.00 in Hg	**3AYV4**
9 in	25 ft	11.0 in	10 psi	10.00 in Hg	**3AYT4**
9 in	50 ft	11.0 in	10 psi	10.00 in Hg	**3AYV5**
10 in	25 ft	11.0 in	8 psi	10.00 in Hg	**3AYT5**
10 in	50 ft	11.0 in	8 psi	10.00 in Hg	**3AYV6**
12 in	25 ft	13.0 in	8 psi	8.00 in Hg	**3AYT6**
12 in	50 ft	13.0 in	8 psi	8.00 in Hg	**3AYV7**
RFH FDA - White - Hi-Tech Duravent					
For Dust Applications					
2 in	25 ft	3.5 in	17 psi	29.00 in Hg	**3AYA1**
3 in	25 ft	4.3 in	10 psi	28.00 in Hg	**3AYA2**
4 in	25 ft	6.5 in	10 psi	25.00 in Hg	**3AYA3**
5 in	25 ft	8 in	9 psi	15.00 in Hg	**3AYA4**
6 in	25 ft	8.8 in	8 psi	11.50 in Hg	**3AYA5**
8 in	25 ft	12 in	6 psi	5.50 in Hg	**3AYA6**
ARH Black/Gray Plastic Helix - Hi-Tech Duravent					
¾ in	25 ft	1.5 in	38 psi	29.00 in Hg	**3AYC8**
¾ in	50 ft	1.5 in	38 psi	29.00 in Hg	**3AYD9**
1 in	25 ft	2.3 in	34 psi	29.00 in Hg	**3AYC9**
1 in	50 ft	2.3 in	34 psi	29.00 in Hg	**3AYE1**
1 ¼ in	25 ft	2.5 in	28 psi	29.00 in Hg	**3AYD1**
1 ¼ in	50 ft	2.5 in	28 psi	29.00 in Hg	**3AYE2**
1 ½ in	25 ft	2.8 in	23 psi	29.00 in Hg	**3AYD2**
1 ½ in	50 ft	2.8 in	23 psi	29.00 in Hg	**3AYE3**
1 ¾ in	25 ft	3 in	18 psi	29.00 in Hg	**3AYD3**
1 ¾ in	50 ft	3 in	18 psi	29.00 in Hg	**3AYE4**
2 in	25 ft	3.3 in	17 psi	29.00 in Hg	**3AYD4**
2 in	50 ft	3.3 in	17 psi	29.00 in Hg	**3AYE5**
2 ½ in	25 ft	3.8 in	16 psi	24.00 in Hg	**3AYD6**
3 in	25 ft	5 in	14 psi	19.00 in Hg	**3AYD7**
3 in	50 ft	5 in	14 psi	19.00 in Hg	**3AYE8**
4 in	25 ft	7 in	11 psi	16.00 in Hg	**3AYD8**
4 in	50 ft	7 in	11 psi	16.00 in Hg	**3AYE9**
Super Vac-U-Flex - Gray - Hi-Tech Duravent					
1 ¼ in	50 ft	0.9 in	45 psi	27.00 in Hg	**2RV79**
1 ½ in	50 ft	1.1 in	36 psi	26.00 in Hg	**2RV81**
2 in	50 ft	1.6 in	26 psi	25.00 in Hg	**2RV83**
2 ½ in	50 ft	2.2 in	20 psi	24.00 in Hg	**2RV85**
3 in	25 ft	2.5 in	20 psi	24.00 in Hg	**2RV87**
4 in	25 ft	3.3 in	14 psi	18.00 in Hg	**2RV89**
Vac-U-Flex EHL Clear/Black PVC Helix - Hi-Tech Duravent					
For Dust Applications					
1 ½ in	25 ft	1.1 in	20 psi	10.00 in Hg	**3AXK2**
1 ¾ in	25 ft	1.4 in	18 psi	8.00 in Hg	**3AXK3**
2 in	25 ft	1.7 in	18 psi	8.00 in Hg	**3AXK4**
2 ½ in	25 ft	2.0 in	13 psi	6.00 in Hg	**3AXK5**
3 in	25 ft	2.4 in	9 psi	4.00 in Hg	**3AXK6**
3 ½ in	25 ft	3.0 in	6 psi	3.00 in Hg	**3AXK7**
4 in	25 ft	3.1 in	6 psi	3.00 in Hg	**3AXK8**
Vac-U-Flex EHL White PVC Not Reinforced - Continental					
1 in	100 ft	—	37 psi	29.00 in Hg	**4XR62**
White PVC Helix - Continental					
1 ¼ in	100 ft	—	37 psi	29.00 in Hg	**1ZLJ3**
White PVC Not Reinforced - Continental					
1 ½ in	100 ft	—	34 psi	29.00 in Hg	**4XR63**
2 in	100 ft	—	30 psi	29.00 in Hg	**4XR64**
White PVC Helix - Continental					
3 in	100 ft	—	30 psi	29.00 in Hg	**1ZLJ4**
4 in	100 ft	—	27 psi	15.00 in Hg	**1ZLJ5**
2PV Econo-Max Vinyl - Blue - Hi-Tech Duravent					
For Air Applications					
3 in	25 ft	2.7 in	23 psi	27.00 in Hg	**19RT26**
4 in	25 ft	3.4 in	18 psi	25.00 in Hg	**19RT27**
5 in	25 ft	3.9 in	14 psi	18.00 in Hg	**19RT28**
6 in	25 ft	4.5 in	14 psi	14.00 in Hg	**19RT29**
Dura-Flex 8025 PVC - Blue - Hi-Tech Duravent					
For Air Applications					
3 in	25 ft	2.7 in	24 psi	22.00 in Hg	**3WB34**
4 in	25 ft	3.6 in	11 psi	17.00 in Hg	**3WB32**
5 in	25 ft	4.5 in	10 psi	14.00 in Hg	**3WB33**
6 in	25 ft	5.1 in	8 psi	10.00 in Hg	**3WB35**
8 in	25 ft	7 in	7 psi	6.00 in Hg	**3WB36**
CVD-AP Clear/Black PVC Helix - Hi-Tech Duravent					
For Dust Applications					
4 in	25 ft	4 in	16 psi	14.00 in Hg	**3AXJ1**
4 in	50 ft	4 in	16 psi	14.00 in Hg	**3AXJ6**
5 in	25 ft	4.3 in	15 psi	12.00 in Hg	**3AXJ2**
6 in	25 ft	5.8 in	12 psi	11.00 in Hg	**3AXJ3**
7 in	25 ft	6 in	11 psi	6.00 in Hg	**3AXJ4**
8 in	25 ft	7.8 in	10 psi	6.00 in Hg	**3AXJ5**
TDHS PVC Laminated Polyester - Black and Orange - Hi-Tech Duravent					
For Exhaust Applications					
3 in	25 ft	1.5 in	28 psi	24.00 in Hg	**2TA53**
4 in	25 ft	2.0 in	24 psi	18.00 in Hg	**2TA54**
5 in	25 ft	2.5 in	20 psi	16.00 in Hg	**2TA55**
6 in	25 ft	3.0 in	18 psi	17.00 in Hg	**2TA56**
8 in	25 ft	4.0 in	12 psi	8.00 in Hg	**2TA57**
10 in	25 ft	5.0 in	8 psi	5.50 in Hg	**2TA58**
12 in	25 ft	6 in	6 psi	3.00 in Hg	**2TA59**
2PN Neoprene Coated Polyester - Black - Hi-Tech Duravent					
For Dust Applications					
1 ½ in	25 ft	1.3 in	41 psi	29.00 in Hg	**3WB12**
2 in	25 ft	1.8 in	33 psi	28.00 in Hg	**3WB13**
2 ½ in	25 ft	2.3 in	27 psi	28.00 in Hg	**3WB14**
3 in	25 ft	2.7 in	23 psi	27.00 in Hg	**3WB15**
4 in	25 ft	3.4 in	18 psi	25.00 in Hg	**3WB16**
5 in	25 ft	3.9 in	14 psi	18.00 in Hg	**3WB17**
6 in	25 ft	4.5 in	14 psi	14.00 in Hg	**3WB18**
8 in	25 ft	5.5 in	11 psi	11.00 in Hg	**3WB19**
10 in	25 ft	6.8 in	10 psi	5.00 in Hg	**3WB20**
12 in	25 ft	9.4 in	8 psi	3.00 in Hg	**3WB21**
333 Clear Wall with Opaque Plastic Helix - Hi-Tech Duravent					
For Dust Applications					
2 ½ in	25 ft	5.3 in	23 psi	24.00 in Hg	**3AYF2**
3 in	25 ft	6.7 in	18 psi	18.00 in Hg	**3AYF3**
3 ½ in	25 ft	8 in	12 psi	12.00 in Hg	**3AYF4**
4 in	25 ft	8.3 in	12 psi	12.00 in Hg	**3AYF5**

3AYW1

2RV91

3AYP9

2TA34

2TA48

HI-TECH DURAVENT Flexible Hose & Ducting

Vacuum Hose Cuffs

Outside Dia.	Inside Dia.	For Use With	Item No.
Hose Cuff			
PVC			
1 ½ in	1 ¼ in	3AXK -3AXN3, 3AXX1-3AXY6, 3AYC8-3AYE9	**3AYV9**
1 ¾ in	1 ½ in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW1**
2 in	1 ¾ in	3AXK -3AXN3, 3AXX1-3AXY6, 3AYC8-3AYE9	**3AYW2**
2 ¼ in	2 in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW3**
3 ¼ in	3 in	210100751525-10, 210104001550-10, 213106002650-10, 213201502225-10, 213204002250-10, Mfr. No. 3AXK	**3AYW4**
Screw Cuff			
1 ½ in	1 ¼ in	For Ducting Hose No. 2RV79	**2RV91**
1 ¾ in	1 ½ in	Ducting Hose No. 2RV81	**2RV93**
2 5⁄16 in	2 in	Ducting Hose No. 2RV83	**2RV95**
2 ⅞ in	2 ½ in	Ducting Hose No. 2RV85	**2RV97**
3 ⅜ in	3 in	For Ducting Hose No. 2RV87	**2RV99**
Y Connector			
Aluminum			
5 in	4 in	3AYK3 - 3AYL3	**3AYP9**

Outside Dia.	For Use With	Item No.
Ducting Hose Connector		
304 Stainless Steel		
4 in	4 in Ducting Hose	**2TA34**
5 in	5 in Ducting Hose	**2TA35**
6 in	6 in Ducting Hose	**2TA36**
8 in	8 in Ducting Hose	**2TA37**
10 in	10 in Ducting Hose	**2TA38**
12 in	12 in Ducting Hose	**2TA39**

Inside Dia.	For Use With	Item No.
Hose Quick Release Clamp		
Galvanized Steel		
4 in	4 in Ducting Hose	**2TA48**
6 in	6 in Ducting Hose	**2TA49**
8 in	8 in Ducting Hose	**2TA50**
10 in	10 in Ducting Hose	**2TA51**
12 in	12 in Ducting Hose	**2TA52**

4CHR2

PVC Tubing

- Clear color

PVC Tubing helps to resist abrasion, wear and corrosion, and can provide excellent flow rates in air, water and liquid transport lines. It is suitable for manufacturing, pumping and drainage systems. A tube support is recommended if used with push-to-connect fittings. **PVC with Wire Helix Suction and Transfer Hoses** feature spring spiral wire reinforcement to help prevent collapsing and kinking. They can also be used for static dissipation. The nonmarking, nontoxic, chemical-resistant hoses feature a smooth interior wall that helps prevent product buildup. Use for food and water dispensing, pure water systems, coolant lines, pneumatic systems, vacuum lines, and auto wash equipment. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Temp. Range	Tube Bend Radius	Brand	Item No.
PVC Reinforced Tubing							
50 ft L, Shore A: 65							
⅜"	½"	1⁄16"	140 psi	-40° to 140° F	⅝"	Usa Sealing	**742W84**
½"	¾"	⅛"	300 psi	-40° to 140° F	½"	Usa Sealing	**742W86**
¾"	1"	⅛"	150 psi	-40° to 140° F	1"	Usa Sealing	**742W87**
1"	1¼"	⅛"	120 psi	-40° to 140° F	1¼"	Usa Sealing	**742W88**
PVC Tubing							
25 ft L, Shore A: 56							
½"	¾"	⅛"	20 psi	-51° to 165°F	1½"	Tygon	**22XJ09**
50 ft L, Shore A: 56							
¼"	⅝"	3⁄16"	53 psi	-51° to 165°F	½"	Tygon	**22XH67**
50 ft L, Shore A: 73							
1¼"	1½"	⅛"	20 psi @ 70°F	25° to 150°F	5"	—	**2LZD4**
1¼"	1⅝"	3⁄16"	30 psi @ 70°F	25° to 150°F	1¾"	—	**4EGW6**
1¼"	1¾"	¼"	40 psi @ 70°F	25° to 150°F	2"	—	**4EGW7**
1½"	1⅞"	3⁄16"	20 psi @ 70°F	25° to 150°F	6"	—	**2LZD5**
1½"	2"	¼"	35 psi @ 70°F	25° to 150°F	2½"	—	**4EGW8**
2"	2½"	¼"	20 psi @ 70°F	25° to 150°F	8"	—	**2LZD6**
100 ft L, Shore A: 62							
38.1-mm	49.3-mm	4.8-mm	55 psi @ 68°F	-4° to 150°F	3"	Kuriyama	**29WK49**
100 ft L, Shore A: 73							
⅛"	¼"	1⁄16"	65 psi @ 70°F	25° to 150°F	3½"	—	**4HL96**
3⁄16"	¼"	1⁄32"	50 psi @ 70°F	25° to 150°F	¾"	—	**4EGU4**
3⁄16"	5⁄16"	1⁄16"	55 psi @ 70°F	25° to 150°F	1"	—	**4EGU5**
3⁄16"	⅜"	3⁄32"	60 psi @ 70°F	25° to 150°F	1¼"	—	**4EGU6**
¼"	⅜"	1⁄16"	55 psi @ 70°F	25° to 150°F	2"	—	**4HL97**
¼"	7⁄16"	3⁄32"	58 psi @ 70°F	25° to 150°F	1¾"	—	**4EGU7**
¼"	½"	⅛"	60 psi @ 70°F	25° to 150°F	2½"	—	**4EGU8**
5⁄16"	7⁄16"	1⁄16"	50 psi @ 70°F	25° to 150°F	¼"	—	**1PBK3**
5⁄16"	½"	3⁄32"	55 psi @ 70°F	25° to 150°F	3"	—	**4EGU9**
⅜"	½"	1⁄16"	45 psi @ 70°F	25° to 150°F	2½"	—	**4HL98**
⅜"	9⁄16"	3⁄32"	50 psi @ 70°F	25° to 150°F	3½"	—	**4EGV2**
⅜"	⅝"	⅛"	55 psi @ 70°F	25° to 150°F	4"	—	**4EGV3**
7⁄16"	9⁄16"	1⁄16"	35 psi @ 70°F	25° to 150°F	4"	—	**4EGV4**
½"	⅝"	1⁄16"	30 psi @ 70°F	25° to 150°F	3"	—	**4HL99**
½"	11⁄16"	3⁄32"	40 psi @ 70°F	25° to 150°F	5"	—	**4EGV5**
½"	¾"	⅛"	45 psi @ 70°F	25° to 150°F	5"	—	**4EGV6**
⅝"	¾"	1⁄16"	35 psi @ 70°F	25° to 150°F	4"	—	**4HM01**
⅝"	13⁄16"	3⁄32"	35 psi @ 70°F	25° to 150°F	6"	—	**4EGV7**
⅝"	⅞"	⅛"	40 psi @ 70°F	25° to 150°F	¼"	—	**4EGV8**
¾"	1"	⅛"	35 psi @ 70°F	25° to 150°F	5"	—	**4HM02**
¾"	1⅛"	3⁄16"	40 psi @ 70°F	25° to 150°F	¼"	—	**4EGV9**
⅞"	1⅛"	⅛"	30 psi @ 70°F	25° to 150°F	1"	—	**4EGW2**
⅞"	1¼"	3⁄16"	35 psi @ 70°F	25° to 150°F	¾"	—	**4EGW3**
1"	1¼"	⅛"	25 psi @ 70°F	25° to 150°F	¼"	—	**1PBK4**
1"	1⅜"	3⁄16"	30 psi @ 70°F	25° to 150°F	1¼"	—	**4EGW4**
1¼"	1½"	⅛"	20 psi @ 70°F	25° to 150°F	½"	—	**1PBK5**
PVC with Wire Helix Suction and Transfer Hose							
25 ft L, Shore A: 73							
¼"	½"	⅛"	210 psi @ 70°F	20° to 150°F	1"	E. James	**4CHR2**
⅜"	⅝"	⅛"	180 psi @ 70°F	20° to 150°F	1½"	E. James	**4CHR3**
½"	13⁄16"	5⁄32"	150 psi @ 70°F	20° to 150°F	2"	E. James	**4CHR4**
⅝"	1"	3⁄16"	100 psi @ 70°F	20° to 150°F	2½"	E. James	**4CHR5**
¾"	1¼"	3⁄16"	100 psi @ 70°F	20° to 150°F	3"	E. James	**4CHR6**
1"	1⅜"	3⁄16"	85 psi @ 70°F	20° to 150°F	4"	E. James	**4CHR7**
1¼"	1¾"	¼"	85 psi @ 70°F	20° to 150°F	5"	E. James	**4CHR8**
1½"	2"	¼"	85 psi @ 70°F	20° to 150°F	6"	E. James	**4CHR9**
2"	2½"	¼"	70 psi @ 70°F	20° to 150°F	8"	E. James	**4CHT1**
2¼"	2¾"	¼"	50 psi @ 70°F	20° to 150°F	9"	E. James	**4CHT2**
2½"	3"	¼"	50 psi @ 70°F	20° to 150°F	10"	E. James	**4CHT3**
3"	3½"	¼"	50 psi @ 70°F	20° to 150°F	12"	E. James	**4CHT4**

** Working pressure decreases as temperature increases.*

Tygon S3 B-44-3 and Tygon S3 B-44-4X Tubing

B-44-3
2LPR5

- Temp. range: -32° to 165°F
- Hardness: Shore A66
- Clear color
- 50-ft. length

Tubing is taste-free, odor-free, nontoxic, and contains no BPA or phthalates. Compliant to FDA CFR Part 175.300, NSF-51, and 3-A sanitary standards.

Beverage (B-44-3)—Flexible tubing has excellent nonwetting properties for complete drainage and simple flush cleaning.

Food, Milk, and Dairy (B-44-4X)—Smooth, nonporous bore helps minimize bacterial growth. Resists harsh cleaners and commonly used sanitizers.

			Beverage B-44-3			Food, Milk and Dairy B-44-4X		
Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Bend Radius	Item No.	Max. Pressure	Tube Bend Radius	Item No.
1⁄16"	⅛"	1⁄32"	70 psi	¼"	**2LPR5**	60 psi	¾"	**2LPX1**
1⁄16"	3⁄16"	1⁄16"	108 psi	½"	**2LPR6**	—	—	—
3⁄32"	5⁄32"	1⁄32"	47 psi	1"	**2LPR7**	43 psi	1½"	**2LPX3**
⅛"	3⁄16"	1⁄32"	45 psi	1¼"	**2LPR9**	34 psi	1¾"	**2LPX4**
⅛"	¼"	1⁄16"	62 psi	1½"	**2LPT1**	60 psi	2"	**2LPX5**
5⁄32"	7⁄32"	1⁄32"	31 psi	1¾"	**2LPT2**	28 psi	2½"	**2LPX6**
5⁄32"	9⁄32"	1⁄16"	52 psi	2"	**2LPT3**	50 psi	3"	**2LPX7**
3⁄16"	¼"	1⁄32"	34 psi	2½"	**2LPT4**	25 psi	4"	**2LPX8**
3⁄16"	5⁄16"	1⁄16"	45 psi	3"	**2LPT5**	43 psi	1"	**2LPX9**
3⁄16"	⅜"	3⁄32"	62 psi	4"	**2LPT6**	—	—	—
¼"	5⁄16"	1⁄32"	28 psi	¼"	**2LPT8**	—	—	—
¼"	⅜"	1⁄16"	36 psi	½"	**2LPT9**	34 psi	1½"	**2LPY1**
¼"	7⁄16"	3⁄32"	49 psi	1"	**2LPU1**	47 psi	2"	**2LPY2**
¼"	½"	⅛"	62 psi	¾"	**2LPU2**	60 psi	2½"	**2LPY3**
5⁄16"	7⁄16"	1⁄16"	30 psi	1¼"	**2LPU3**	28 psi	3"	**2LPY4**
5⁄16"	½"	3⁄32"	41 psi	1½"	**2LPU4**	40 psi	5"	**2LPY5**
5⁄16"	9⁄16"	⅛"	52 psi	1¾"	**2LPU5**	—	—	—
⅜"	½"	1⁄16"	26 psi	2"	**2LPU6**	25 psi	6"	**2LPY7**
⅜"	9⁄16"	3⁄32"	36 psi	2½"	**2LPU7**	34 psi	1½"	**2LPY8**
⅜"	⅝"	⅛"	45 psi	3"	**2LPU8**	44 psi	2½"	**2LPY9**
7⁄16"	11⁄16"	⅛"	39 psi	4"	**2LPU9**	—	—	—
½"	⅝"	1⁄16"	20 psi	¼"	**2LPV1**	19 psi	3"	**2LPZ1**
½"	11⁄16"	3⁄32"	28 psi	¼"	**2LPV2**	27 psi	3½"	**2LPZ2**
½"	¾"	⅛"	36 psi	½"	**2LPV3**	34 psi	2"	**2LPZ3**
½"	13⁄16"	5⁄32"	—	—	—	40 psi	2½"	**2LPZ4**
⅝"	13⁄16"	3⁄32"	—	—	—	23 psi	3"	**2LPZ5**
⅝"	⅞"	⅛"	30 psi	1"	**2LPV4**	29 psi	4"	**2LPZ6**
⅝"	15⁄16"	5⁄32"	—	—	—	35 psi	5"	**2LPZ7**
¾"	1"	⅛"	26 psi	¾"	**2LPV6**	25 psi	3¼"	**2LPZ8**
¾"	1 1⁄16"	5⁄32"	—	—	—	30 psi	2¾"	**2LPZ9**
¾"	1¼"	¼"	—	—	—	43 psi	2"	**2LRA2**
⅞"	1⅛"	⅛"	23 psi	1¼"	**2LPV7**	—	—	—
⅞"	1¼"	⅛"	—	—	—	22 psi	4⅛"	**2LRA3**
1"	1¼"	⅛"	20 psi	1½"	**2LPV8**	20 psi	5⅛"	**2LRA4**
1"	1⅜"	3⁄16"	28 psi	1¾"	**2LPV9**	27 psi	3¾"	**2LRA6**
1"	1½"	¼"	36 psi	2"	**2LPW1**	34 psi	3"	**2LRA7**
1⅛"	1⅜"	⅛"	—	—	—	18 psi	6¼"	**2LRA8**
1¼"	1½"	⅛"	17 psi	2½"	**2LPW2**	—	—	—
1¼"	1⅝"	3⁄16"	24 psi	3"	**2LPW3**	23 psi	5½"	**2LRA9**
1¼"	1¾"	¼"	30 psi	4"	**2LPW4**	—	—	—
1½"	1⅞"	3⁄16"	20 psi	¼"	**2LPW5**	—	—	—
1½"	2"	¼"	26 psi	¼"	**2LPW6**	25 psi	5⅞"	**2LRC1**
1¾"	2¼"	¼"	23 psi	½"	**2LPW7**	—	—	—

PVC Food Tubing

- Temp. range: -50° to 150°F
- Hardness: Shore A65

Polyvinyl chloride (PVC) tubing helps to resist abrasion, wear, and corrosion, and can provide excellent flow rates in beverage production and food industry applications, especially with products with high fat content.

55YM51

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Bend Radius	Std.	Item No.
10 ft L						
1"	1⅜"	3⁄16"	120 psi	1¼"	FDA, NSF 51	**55YK83**
1½"	2"	¼"	15 psi	1½"	3A 20-27, FDA, NSF 51	**55YM51**
25 ft L						
5⁄16"	9⁄16"	⅛"	20 psi	⅝"	3A 20-27, FDA, NSF 51	**55YM39**
1½"	2"	¼"	15 psi	1½"	FDA, NSF 51	**55YK20**
1½"	2"	¼"	140 psi	1½"	FDA, NSF 51	**55YK78**
100 ft L						
5⁄16"	9⁄16"	⅛"	20 psi	⅝"	3A 20-27, FDA, NSF 51	**55YM21**
5⁄16"	9⁄16"	⅛"	20 psi	⅝"	FDA, NSF 51	**55YK09**
¾"	1"	⅛"	70 psi	¾"	3A 20-27, FDA, NSF 51	**55YN40**
¾"	1"	⅛"	70 psi	¾"	FDA, NSF 51	**55YL15**
1"	1⅜"	3⁄16"	120 psi	1¼"	3A 20-27, FDA, NSF 51	**55YM90**
1"	1⅜"	3⁄16"	120 psi	1¼"	FDA, NSF 51	**55YK67**
1½"	2"	¼"	15 psi	1½"	3A 20-27, FDA, NSF 51	**55YM24**
1½"	2"	¼"	140 psi	1½"	FDA, NSF 51	**55YK68**
2"	2½"	¼"	55 psi	1 7⁄16"	FDA, NSF 51	**55YL18**
2"	2½"	¼"	100 psi	2"	FDA, NSF 51	**55YK69**

PVC Reinforced and Braided Tubing

- Hardness: Shore A73
- Clear color

To see standards for a product, go to Grainger.com and search for the item number.

PVC Reinforced—Braided, flexible tubing is designed for use in potable water transfer lines, air and water lines, and dairy processing. It helps to resist abrasion, wear and corrosion.

- Temp. range: 25° to 150°F

PVC with Spiraled Polyester Yarn Braided —Designed for use in potable water transfer lines, air and water lines, and dairy processing.

- Temp. range: 25° to 150°F

PVC with Wire Helix and Yarn Reinforced—For vacuum and/or higher-pressure applications. Steel wire dissipates static; yarn reinforcement allows higher working pressure.

- Temp. range: 15° to 150°F

PVC with Wire Helix Reinforced—Spiral wire reinforcement prevents kinking and collapsing; maintains full vacuum ratings.

- Temp. range: 25° to 150°F

4HM05

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Bend Radius	50 ft L Item No.	100 ft L Item No.
PVC Reinforced Tubing						
1 1/2"	1 15/16"	1/4"	100 psi @ 70°F	6"	2LZD8	—
10 mm	16 mm	2.5 mm	225 psi @ 70°F	2 1/2"	—	2LZE7
12 mm	18 mm	3 mm	200 psi @ 70°F	3"	—	2LZE8
19 mm	26 mm	3.5 mm	150 psi @ 70°F	4"	—	2LZE9
2"	2 1/2"	1/4"	75 psi @ 70°F	8"	2LZD9	—
6 mm	11 mm	2.5 mm	250 psi @ 70°F	1 1/2"	—	2LZE5
8 mm	13.5 mm	2.7 mm	250 psi @ 70°F	2"	—	2LZE6
PVC with Spiraled Polyester Yarn Braided Tubing						
1/4"	7/16"	3/32"	250 psi @ 70°F	1 1/2"	—	4HM03
5/16"	17/32"	3/32"	250 psi @ 70°F	3/4"	—	1PBK7
3/8"	19/32"	3/32"	225 psi @ 70°F	2"	—	4HM04
1/2"	3/4"	1/8"	200 psi @ 70°F	2 1/2"	—	4HM05
5/8"	57/64"	1/8"	200 psi @ 70°F	1 1/4"	—	1PBK8
3/4"	1 1/32"	1/8"	150 psi @ 70°F	3"	—	4HM06
1"	1 19/64"	1/8"	125 psi @ 70°F	4"	—	4HM07
1 1/4"	1 5/8"	5/32"	125 psi @ 70°F	1 1/2"	—	1PBK9
1 1/2"	1 15/16"	7/32"	100 psi @ 70°F	1 3/4"	—	1PBL1

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Bend Radius	50 ft L Item No.	100 ft L Item No.
PVC with Wire Helix and Yarn Reinforced Tubing						
1/2"	29/32"	3/16"	250 psi @ 70°F	2"	—	4EGR3
3/4"	1 3/16"	3/16"	225 psi @ 70°F	2 1/2"	—	4EGR4
1"	1 29/64"	7/32"	225 psi @ 70°F	3 1/2"	—	4EGR5
1 1/4"	1 3/4"	1/4"	175 psi @ 70°F	4 1/2"	4EGR6	—
1 1/2"	2"		175 psi @ 70°F	5 1/2"	4EGR7	—
2"	2 39/64"	15/16"	150 psi @ 70°F	7"	4EGR8	—
PVC with Wire Helix Reinforced Tubing						
1/4"	15/32"	3/32"	150 psi @ 70°F	2"	—	1PBL2
3/8"	39/64"	1/8"	100 psi @ 70°F	2 1/2"	—	1PBL3
1/2"	3/4"	1/8"	100 psi @ 70°F	3"	—	1PBL4
3/4"	1 1/32"	1/8"	70 psi @ 70°F	4"	—	1PBL5
1"	1 19/64"	1/8"	70 psi @ 70°F	1/4"	—	1PBL6
1 1/4"	1 39/64"	3/16"	70 psi @ 70°F	5"	2LZE1 †	—
1 1/2"	1 7/8"	3/16"	50 psi @ 70°F	6"	2LZE2 †	—
2"	2 3/8"	3/16"	50 psi @ 70°F	8"	2LZE3 †	—

** Working pressure decreases as temperature increases.*
† UV-resistant.

SAINT-GOBAIN

Tygon S3 E-3603 Lab Tubing

- Temp. range: -51° to 165°F
- Hardness: Shore A56
- Clear color

Features excellent chemical resistance and smooth, polished inner wall construction to ease cleaning. Less permeable than rubber tubing and contains no BPA or phthalates. For use with desiccators, incubators, and as gas and drain lines in general laboratory, beverage, and food applications. EU Food Contact regulation. Meets FDA, Class IV, and NSF 51. Additional sizes available on Grainger.com.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Tube Length	Item No.
Standard					
1/32 in	3/32 in	1/32 in	69 psi	50 ft	22XH28
1/16 in	1/8 in	1/32 in	36 psi	50 ft	22XH29
3/32 in	5/32 in	1/32 in	25 psi	50 ft	22XH31
	7/32 in	1/16 in	47 psi	50 ft	22XH33
1/8 in	1/4 in	1/16 in	36 psi	100 ft	22XH34
	1/4 in	1/16 in	45 psi	10 ft	22XH73
5/32 in	9/32 in	1/16 in	30 psi	50 ft	22XH36
	9/32 in	1/16 in	30 psi	100 ft	22XH37
3/16 in	5/16 in	1/16 in	25 psi	100 ft	22XH38
	5/16 in	1/16 in	30 psi	10 ft	22XH74
	3/8 in	3/32 in	36 psi	50 ft	22XH39
1/4 in	3/8 in	1/16 in	20 psi	100 ft	22XH40
	3/8 in	1/16 in	25 psi	10 ft	22XH75
	1/2 in	1/8 in	36 psi	100 ft	22XH41
	1/2 in	1/8 in	40 psi	10 ft	22XH76
5/16 in	5/8 in	5/32 in	36 psi	50 ft	22XH42
3/8 in	1/2 in	1/16 in	20 psi	10 ft	22XH77
	7/8 in	1/4 in	47 psi	50 ft	22XH68
	7/8 in	1/4 in	50 psi	10 ft	22XH83
1/2 in	5/8 in	1/16 in	10 psi	10 ft	22XH78
	11/16 in	3/32 in	15 psi	100 ft	22XH45
	13/16 in	5/32 in	24 psi	50 ft	22XH46
	1 1/8 in	5/16 in	45 psi	50 ft	22XH69
9/16 in	3/4 in	3/32 in	14 psi	50 ft	22XH47
	13/16 in	1/8 in	18 psi	50 ft	22XH48
11/16 in	7/8 in	3/32 in	12 psi	50 ft	22XH50
3/4 in	1 in	1/8 in	18 psi	10 ft	22XH79
	1 1/16 in	5/32 in	17 psi	50 ft	22XH51
	1 1/8 in	3/16 in	20 psi	50 ft	22XH52
7/8 in	1 1/8 in	1/8 in	13 psi	50 ft	22XH54
1 1/4 in	1 1/2 in	1/8 in	10 psi	50 ft	22XH59
1 in	1 1/4 in	1/8 in	15 psi	10 ft	22XH80
1 1/8 in	1 1/2 in	3/16 in	14 psi	50 ft	22XH58
1 in	1 3/8 in	3/16 in	16 psi	50 ft	22XH56
	1 1/2 in	1/4 in	20 psi	50 ft	22XH57
1 1/2 in	2 in	1/4 in	14 psi	50 ft	22XH62
Metric					
2 mm	4 mm	1 mm	2.5 psi	49 ft	22XH86
3 mm	5 mm	1 mm	1.7 psi	49 ft	22XH87
4 mm	6 mm	1 mm	1.4 psi	49 ft	22XH88
5 mm	8 mm	1.5 mm	1.6 psi	49 ft	22XH89
6 mm	9 mm	1.5 mm	1.4 psi	49 ft	22XH90
8 mm	12 mm	2 mm	25 psi at 73°F	49 ft	22XH91

** Working pressure decreases as temperature increases.*

Laboratory and Chemical-Resistant PVC Tubing

- Clear color

FDA Approved; meets CFR 21 175.300.

Laboratory—Highly flexible, high-strength tubing is an excellent alternative to latex and is more cost-effective than silicone. Can be used in peristaltic pumping applications. Withstands autoclaving and repeated gamma sterilization. Ideal for medical devices and laboratory fluid systems, as well as paint, pigment, and soap dispensing.

- Temp. range: -65° to 140°F
- Hardness: Shore A55
- 50-ft. length

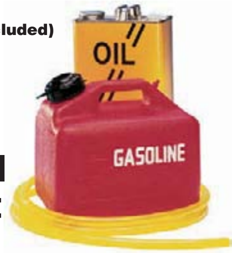
Chemical-Resistant—Excellent for peristaltic pumping applications and works well with barbed fittings, even with repeated use. Can be autoclaved or gas sterilized. For transferring, draining, and pumping chemicals, food products, and corrosive materials such as bleach.

- Temp. range: -65° to 160°F
- Hardness: Shore A60
- 100-ft. length

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Item No.
Laboratory				
1/4 in	3/8 in	1/16 in	25 psi	4VUP7
5/16 in	7/16 in	1/16 in	20 psi	4VUP9
3/8 in	1/2 in	1/16 in	20 psi	4VUR2
1/2 in	5/8 in	1/16 in	10 psi	4VUR7
1/2 in	3/4 in	1/8 in	25 psi	4VUR8
5/8 in	7/8 in	1/8 in	20 psi	4VUR9
1 in	1 1/4 in	1/8 in	25 psi	4VUT2
Chemical Resistant				
1/8 in	1/4 in	1/16 in	62 psi	4VUU8
3/16 in	5/16 in	1/16 in	45 psi	4VUV2
1/4 in	3/8 in	1/16 in	36 psi	4VUV4
1/4 in	7/16 in	3/32 in	49 psi	4VUV5
3/8 in	1/2 in	1/16 in	26 psi	4VUV8
3/8 in	9/16 in	3/32 in	36 psi	4VUW1
3/8 in	5/8 in	1/8 in	45 psi	4VUW2
1/2 in	5/8 in	1/16 in	20 psi	4VUW4
1/2 in	3/4 in	1/8 in	36 psi	4VUW5
5/8 in	7/8 in	1/8 in	30 psi	4VUW6
3/4 in	1 in	1/8 in	26 psi	4VUW7
1 in	1 1/4 in	1/8 in	20 psi	4VUW8
1 in	1 3/8 in	3/16 in	28 psi	4VUW9
1 in	1 1/2 in	1/4 in	36 psi	4VUX1
1 1/4 in	1 5/8 in	3/16 in	24 psi	4VUX2
1 1/2 in	2 in	1/4 in	26 psi	4VUX3
2 in	2 1/2 in	1/4 in	20 psi	4VUX4

** Working pressure decreases as temperature increases.*

(Containers not included)



SAINT-GOBAIN

Tygon F-4040-A Fuel and Lubricant Tubing

- Max. temp.: 165°F
- Hardness: Shore A57
- Yellow color
- 50-ft. length

Handles most fuels and industrial lubricants; resists hardening and swelling caused by hydrocarbon-based fluids. Tubing is highly flexible and easy to install.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
1/16 in	1/8 in	1/16 in	40 psi	12X199
3/32 in	3/16 in	1/32 in	50 psi	12X201
1/8 in	1/4 in	1/16 in	50 psi	12X202
3/16 in	5/16 in	1/16 in	35 psi	12X203
1/4 in	3/8 in	1/16 in	30 psi	12X204
5/16 in	7/16 in	1/16 in	25 psi	12X205
3/8 in	1/2 in	1/16 in	20 psi	12X206
3/8 in	5/8 in	1/8 in	35 psi	12X207
7/16 in	9/16 in	1/8 in	15 psi	12X208
1/2 in	5/8 in	1/16 in	15 psi	12X209
1/2 in	3/4 in	1/8 in	30 psi	12X210
5/8 in	7/8 in	1/8 in	25 psi	12X211
3/4 in	1 in	1/8 in	20 psi	12X212

2DBZ2

SAINT-GOBAIN

Versilon 2001 Tubing

- Temp. range: -108° to 135°F
- Hardness: Shore A69
- 50-ft. length
- Clear color

Plasticizer- and oil-free with low compression set properties of thermoset rubber, but won't dry out and crack. Longer service life with fewer tubing changes and reduced downtime. Superior flex life with peristaltic pumps. Ideal for soap and detergent dispensing, water purification, food contact, and chemical transfer applications. Meets FDA standards for food contact.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
1/16 in	3/16 in	1/16 in	45 psi @ 73 °F	2DBZ2
1/8 in	1/4 in	1/16 in	30 psi @ 73 °F	2DBZ4
3/16 in	5/16 in	1/16 in	22 psi @ 73 °F	2DBZ6
1/4 in	3/8 in	1/16 in	17 psi @ 73 °F	2DBZ8
5/16 in	7/16 in	1/16 in	14 psi @ 73 °F	2DCA1
3/8 in	1/2 in	1/16 in	12 psi @ 73 °F	2DCA3
1/2 in	3/4 in	1/8 in	16 psi @ 73 °F	2DCA5
5/8 in	7/8 in	1/8 in	13 psi @ 73 °F	2DCA7
3/4 in	1 in	1/8 in	11 psi @ 73 °F	2DCA9
1 in	1 3/8 in	3/16 in	13 psi @ 73 °F	2DCB2

1PBN7

Standard, Metric and Extruded Polyurethane Tubing

- Hardness: Shore A98, except 4HL91 thru 4HL95

Strong, flexible tubing is 5 to 10 times more wear- and abrasion-resistant than rubber hose, and lighter weight. Use with push-to-connect fittings with no tube support. Nonmarking; resist algae growth. For air and water lines, robotics, carwash, and painting equipment. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Temp. Range	Tube Color	Item No.
Standard Polyurethane Tubing						
100 ft L						
3/32"	5/32"	1/32"	200 psi	-68° to 140 °F	Black	1PBL9
	5/32"	1/32"	200 psi	-68° to 140 °F	Red	1CTF8
	5/32"	1/32"	200 psi	-68° to 140 °F	Translucent Blue	4HL95
5/32"	1/4"	3/64"	180 psi	-68° to 160 °F	Black	1PBN1
	1/4"	3/64"	180 psi	-68° to 140 °F	Red	1CTF9
	1/4"	3/64"	180 psi	-68° to 140 °F	Translucent Blue	4HL92
	1/4"	3/64"	180 psi	-68° to 140 °F	Yellow	1CTG5
1/4"	3/8"	1/16"	150 psi	-68° to 140 °F	Black	1PBN2
	3/8"	1/16"	150 psi	-68° to 140 °F	Red	1CTG1
	3/8"	1/16"	150 psi	-68° to 140 °F	Translucent Blue	4HL94
	3/8"	1/16"	150 psi	-68° to 140 °F	Yellow	1CTG6
21/64"	1/2"	3/32"	150 psi	-68° to 140 °F	Black	1PBN3
	1/2"	3/32"	150 psi	-68° to 140 °F	Red	1CTG2
	1/2"	3/32"	150 psi	-68° to 140 °F	Translucent Blue	4HL91
	1/2"	3/32"	150 psi	-68° to 140 °F	Yellow	1CTG7
250 ft L						
3/32"	5/32"	1/32"	200 psi	-68° to 140 °F	Black	1PBP6
5/32"	1/4"	3/64"	180 psi	-68° to 140 °F	Black	1PBP8
	1/4"	3/64"	180 psi	-68° to 140 °F	Translucent Blue	1PBN7
1/4"	3/8"	1/16"	150 psi	-68° to 140 °F	Black	1PBR1
	3/8"	1/16"	150 psi	-40° to 160 °F	Red	5MPV1
	3/8"	1/16"	150 psi	-68° to 140 °F	Translucent Blue	1PBN9
	3/8"	1/16"	150 psi	-40° to 160 °F	Yellow	5MPV0
21/64"	1/2"	3/32"	150 psi	-68° to 140 °F	Black	1PBR2
	1/2"	3/32"	150 psi	-40° to 160 °F	Red	5MPV3
	1/2"	3/32"	150 psi	-68° to 140 °F	Translucent Blue	1PBP2
	1/2"	3/32"	150 psi	-40° to 160 °F	Yellow	5MPV2
5 mm	8 mm	1.5 mm	175 psi	-40° to 160 °F	Green	5MPV7
	8 mm	1.5 mm	175 psi	-40° to 160 °F	Yellow	5MPV8
6.5 mm	10 mm	1.75 mm	150 psi	-40° to 160 °F	Green	5MPW0
	10 mm	1.75 mm	150 psi	-40° to 160 °F	Yellow	5MPW1
Metric Polyurethane Tubing						
100 ft L						
2.5 mm	4 mm	0.75 mm	200 psi	-68° to 140 °F	Black	1PBR5
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Red	1CTG9
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Translucent Blue	1PBR3
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Yellow	1CTG8
4 mm	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1PBR7
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	1CTH2
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	1PBR6
	6 mm	1 mm	180 psi	-68° to 140 °F	Yellow	1CTH1
5 mm	8 mm	1.5 mm	175 psi	-68° to 140 °F	Black	1PBR9
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Red	1CTH4
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Translucent Blue	1PBR8
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Yellow	1CTH3
6.5 mm	10 mm	1.75 mm	150 psi	-68° to 140 °F	Black	1PBT2
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Red	1CTH6
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Translucent Blue	1PBT1
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Yellow	1CTH5
8 mm	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBT6
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTH8
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	1PBT4
	12 mm	2 mm	150 psi	-68° to 140 °F	Yellow	1CTH7
250 ft L						
2.5 mm	4 mm	0.75 mm	200 psi	-68° to 140 °F	Black	1PBU1
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Translucent Blue	1PBT8
4 mm	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1PBU5
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	1PBU3
5 mm	8 mm	1.5 mm	175 psi	-68° to 140 °F	Black	1PBU9
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Translucent Blue	1PBU7
6.5 mm	10 mm	1.75 mm	150 psi	-68° to 140 °F	Black	1PBV4
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Translucent Blue	1PBV2
8 mm	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBV8
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	1PBV6
Extruded Polyurethane Tubing						
50 ft L						
3/32"	5/32"	1/32"	200 psi	-68° to 140 °F	Light Blue	2LZF2
5/32"	1/4"	3/64"	180 psi	-68° to 140 °F	Green	2LZG9
	1/4"	3/64"	180 psi	-68° to 140 °F	Light Blue	2LZF3
	1/4"	3/64"	180 psi	-68° to 140 °F	Red	2LZF8
1/4"	3/8"	1/16"	150 psi	-68° to 140 °F	Green	2LZH1
	3/8"	1/16"	150 psi	-68° to 140 °F	Light Blue	2LZF4
	3/8"	1/16"	150 psi	-68° to 140 °F	Red	2LZF9
	3/8"	1/16"	150 psi	-68° to 140 °F	Yellow	2LZG5
21/64"	1/2"	3/32"	150 psi	-68° to 140 °F	Green	2LZH2
	1/2"	3/32"	150 psi	-68° to 140 °F	Light Blue	2LZF5
	1/2"	3/32"	150 psi	-68° to 140 °F	Red	2LZG1
100 ft L						
5/32"	1/4"	3/64"	180 psi	-68° to 140 °F	Green	2LZH5
1/4"	3/8"	1/16"	150 psi	-68° to 140 °F	Green	2LZH6
21/64"	1/2"	3/32"	150 psi	-68° to 140 °F	Green	2LZH7
4 mm	6 mm	1 mm	200 psi	-68° to 140 °F	Green	2LZJ5
5 mm	8 mm	1.5 mm	175 psi	-68° to 140 °F	Green	2LZJ6
6.5 mm	10 mm	1.75 mm	150 psi	-68° to 140 °F	Green	2LZJ7
8 mm	12 mm	2 mm	150 psi	-68° to 140 °F	Green	2LZJ8
250 ft L						
5/32"	1/4"	3/64"	180 psi	-68° to 140 °F	Green	2LZJ1
1/4"	3/8"	1/16"	150 psi	-68° to 140 °F	Green	2LZJ2
21/64"	1/2"	3/32"	150 psi	-68° to 140 °F	Green	2LZJ3

** Working pressure decreases as temp. increases.*

Braided
2DCG3

Unbraided
742U14

USASEALING SAINT-GOBAIN

Braided and Unbraided Polyurethane Tubing

- Clear color

Designed to handle applications that require a tight bend radius. Remains flexible in subzero temperatures. Suitable for fluid transfer in food and beverage, environmental, chemical processing, industrial, peristaltic pump, and similar applications. To see standards for a product, go to Grainger.com and search for the item number.

Braided—Tough braid reinforcements can handle higher working pressures and allow greater flexibility than many other reinforced urethane tubings. Tubing is abrasion- and tear-resistant and is ideal for abrasive and viscous slurry tansfer.

Unbraided—The material is chemical-, oil-, grease-, solvent-, tear-, and abrasion-resistant, with excellent wear properties.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Brand	Item No.
Braided, Temp. Range: -100° to 175 °F					
50 ft L, Shore A: 85					
1 1/4"	1 3/4"	1/4"	95 psi	Tygothane	2DCH1
1 1/2"	2"	1/4"	80 psi	Tygothane	2DCH2
100 ft L, Shore A: 85					
1/8"	3/8"	1/8"	420 psi	Tygothane	2DCG3
1/4"	1/2"	1/8"	275 psi	Tygothane	2DCG4
3/8"	5/8"	1/8"	205 psi	Tygothane	2DCG5
1/2"	3/4"	1/8"	195 psi	Tygothane	2DCG6
5/8"	7/8"	1/8"	175 psi	Tygothane	2DCG7
3/4"	1 1/16"	5/32"	150 psi	Tygothane	2DCG8
1"	1 3/8"	3/16"	120 psi	Tygothane	2DCG9
Braided, Temp. Range: -80° to 160 °F					
10 ft L, Shore A: 90					
1/4"	3/8"	1/16"	200 psi	Usa Sealing	742U27
3/8"	17/32"	5/64"	200 psi	Usa Sealing	742U28
1/2"	21/32"	5/64"	200 psi	Usa Sealing	742U29
25 ft L, Shore A: 90					
1/4"	3/8"	1/16"	200 psi	Usa Sealing	742U24
3/8"	17/32"	5/64"	200 psi	Usa Sealing	742U25
1/2"	21/32"	5/64"	200 psi	Usa Sealing	742U26
50 ft L, Shore A: 90					
1/4"	3/8"	1/16"	200 psi	Usa Sealing	742U21
3/8"	17/32"	5/64"	200 psi	Usa Sealing	742U22
1/2"	21/32"	5/64"	200 psi	Usa Sealing	742U23
100 ft L, Shore A: 90					
1/4"	3/8"	1/16"	200 psi	Usa Sealing	742U18
3/8"	17/32"	5/64"	200 psi	Usa Sealing	742U19
1/2"	21/32"	5/64"	200 psi	Usa Sealing	742U20
Unbraided, Temp. Range: -100° to 175 °F					
100 ft L, Shore A: 82					
1/16"	1/8"	1/32"	70 psi	Tygothane	2LRE1
1/8"	3/16"	1/32"	45 psi	Tygothane	2LRE2
	1/4"	1/16"	74 psi	Tygothane	2LRE3
3/16"	1/4"	1/32"	34 psi	Tygothane	2LRE4
	5/16"	1/16"	56 psi	Tygothane	2LRE5
	3/8"	3/32"	70 psi	Tygothane	2LRE6
1/4"	5/16"	1/32"	28 psi	Tygothane	2LRE7
	3/8"	1/16"	42 psi	Tygothane	2LRE8
	7/16"	3/32"	58 psi	Tygothane	2LRE9
	1/2"	1/8"	70 psi	Tygothane	2LRF1
5/16"	7/16"	1/16"	36 psi	Tygothane	2LRF2
3/8"	1/2"	1/16"	34 psi	Tygothane	2LRF3
	9/16"	3/32"	45 psi	Tygothane	2LRF4
	5/8"	1/8"	54 psi	Tygothane	2LRF5
7/16"	5/8"	3/32"	40 psi	Tygothane	2LRF6
1/2"	5/8"	1/16"	26 psi	Tygothane	2LRF7
	11/16"	3/32"	36 psi	Tygothane	2LRF8
	3/4"	1/8"	46 psi	Tygothane	2LRF9
5/8"	3/4"	1/16"	24 psi	Tygothane	2LRG1
	13/16"	3/32"	32 psi	Tygothane	2LRG2
	7/8"	1/8"	38 psi	Tygothane	2LRG3
3/4"	1"	1/8"	33 psi	Tygothane	2LRG5
Unbraided, Temp. Range: -80° to 150 °F					
10 ft L, Shore A: 90					
1/16"	1/8"	1/32"	120 psi	Usa Sealing	742U14
1/8"	1/4"	1/16"	120 psi	Usa Sealing	742U15
1/4"	3/8"	1/16"	120 psi	Usa Sealing	742U16
3/8"	1/2"	1/16"	120 psi	Usa Sealing	742U17
25 ft L, Shore A: 90					
1/16"	1/8"	1/32"	120 psi	Usa Sealing	742U10
1/8"	1/4"	1/16"	120 psi	Usa Sealing	742U11
1/4"	3/8"	1/16"	120 psi	Usa Sealing	742U12
3/8"	1/2"	1/16"	120 psi	Usa Sealing	742U13
50 ft L, Shore A: 90					
1/16"	1/8"	1/32"	120 psi	Usa Sealing	742U06
1/8"	1/4"	1/16"	120 psi	Usa Sealing	742U07
1/4"	3/8"	1/16"	120 psi	Usa Sealing	742U08
3/8"	1/2"	1/16"	120 psi	Usa Sealing	742U09
100 ft L, Shore A: 90					
1/16"	1/8"	1/32"	120 psi	Usa Sealing	742U02
1/8"	1/4"	1/16"	120 psi	Usa Sealing	742U03
1/4"	3/8"	1/16"	120 psi	Usa Sealing	742U04
3/8"	1/2"	1/16"	120 psi	Usa Sealing	742U05

Flame-Retardant Polyethylene Tubing

- Temp. range: -50° to 140°F
- Shore A: 93, Shore D: 45

Flame-retardant tubing is engineered to help resist flames and prevent smoke in the event of a fire. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Tube Bend Radius	Item No.
250 ft L						
1/4"	3/8"	1/16"	100 psi	Black	3"	2LZP7
3/8"	1/2"	1/16"	70 psi	Black	4"	2LZP8
5/32"	1/4"	3/64"	100 psi	Black	2"	2LZN9
5/32"	1/4"	3/64"	100 psi	Black with Blue Stripe	2"	2LZP5
5/32"	1/4"	3/64"	100 psi	Black with Green Stripe	2"	2LZP4
5/32"	1/4"	3/64"	100 psi	Black with Orange Stripe	2"	2LZP3
5/32"	1/4"	3/64"	100 psi	Black with Red Stripe	2"	2LZP2
5/32"	1/4"	3/64"	100 psi	Black with Violet Stripe	2"	2LZP6
5/32"	1/4"	3/64"	100 psi	Black with White Stripe	2"	2LZP1
500 ft L						
3/32"	5/32"	1/32"	100 psi	Black	1"	2LZN8

Eldon James

Polyethylene Tubing

High-density polyethylene tubing (HDPE) is chemical-resistant, and engineered to be harder and less flexible than LDPE, with better physical and chemical properties. Withstands sterilization by boiling. Use for air, water, or chemical transfer. To see standards for a product, go to Grainger.com and search for the item number.

1LLN1

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Tube Bend Radius	Brand	Item No.
Shore A: 86, Temp. Range: -40° to 170 °F							
100 ft L							
1/16"	1/8"	1/32"	110 psi	Clear Blue	5/32"	E. James	**1LLN1**
3/32"	5/32"	1/32"	86 psi	Clear Blue	3/16"	E. James	**1LLN2**
1/8"	1/4"	1/16"	150 psi	Black	1/4"	E. James	**1PCU5**
	1/4"	1/16"	150 psi	Clear Blue	1/4"	E. James	**1LLN3**
	1/4"	1/16"	150 psi	Natural	1/4"	E. James	**1PCR3**
5/32"	1/4"	1/25"	150 psi	Natural	1/4"	E. James	**1PCR4**
	1/4"	1/16"	150 psi	Black	1/4"	E. James	**1PCU4**
3/16"	5/16"	1/16"	96 psi	Black	1/2"	E. James	**1PCU6**
	5/16"	1/16"	96 psi	Clear Blue	1/2"	E. James	**1LLN4**
	5/16"	1/16"	96 psi	Natural	1/2"	E. James	**1PCR5**
1/4"	3/8"	1/16"	73 psi	Black	1"	E. James	**1PCU7**
	3/8"	1/16"	73 psi	Clear Blue	1"	E. James	**1LLN5**
	3/8"	1/16"	73 psi	Natural	1"	E. James	**1PCR6**
5/16"	7/16"	1/16"	66 psi	Clear Blue	1 1/2"	E. James	**1LLN7**
	7/16"	1/16"	66 psi	Natural	1 1/2"	E. James	**1PCR7**
3/8"	1/2"	1/16"	53 psi	Clear Blue	1 3/4"	E. James	**1LLN8**
	1/2"	1/16"	53 psi	Natural	1 3/4"	E. James	**1PCR8**
	5/8"	1/16"	48 psi	Clear Blue	2"	E. James	**1LLN9**
1/2"	5/8"	1/16"	48 psi	Black	2 1/2"	E. James	**1PCU9**
1"	1 1/4"	1/16"	45 psi	Natural	8"	E. James	**1PCU3**
Shore A: 93, Shore D: 45, Temp. Range: -50° to 140 °F							
100 ft L							
1/8"	1/4"	1/16"	456 psi	Natural	2 1/2"	—	**2LZT1**
5/32"	1/4"	3/64"	150 psi	Green	2"	—	**2LZK6**
11/64"	1/4"	3/64"	260 psi	Natural	2 1/2"	—	**2LZT2**
3/16"	5/16"	1/16"	340 psi	Natural	3 1/8"	—	**2LZT3**
1/4"	3/8"	1/16"	150 psi	Green	3"	—	**2LZK7**
	3/8"	1/16"	272 psi	Natural	3 3/4"	—	**2LZT4**
5/16"	7/16"	1/16"	228 psi	Natural	4 3/8"	—	**2LZT5**
3/8"	1/2"	1/16"	125 psi	Green	4"	—	**2LZK8**
	1/2"	1/16"	194 psi	Natural	5"	—	**2LZT6**
1/2"	5/8"	1/16"	151 psi	Natural	6 1/4"	—	**2LZT7**
19/32"	3/4"	5/64"	152 psi	Natural	7 1/2"	—	**2LZT8**
5/8"	3/4"	1/16"	123 psi	Natural	7 1/2"	—	**2LZT9**
3/4"	7/8"	1/16"	105 psi	Natural	8 3/4"	—	**2LZU1**
	1"	1/8"	195 psi	Natural	10"	—	**2LZU2**
13/16"	1"	3/32"	140 psi	Natural	10"	—	**2LZU3**
7/8"	1"	1/16"	90 psi	Natural	10"	—	**2LZU4**
1"	1 1/4"	1/8"	152 psi	Natural	12 1/2"	—	**2LZU5**
1 1/4"	1 1/2"	1/8"	124 psi	Natural	15"	—	**2LZU6**
1 1/2"	1 3/4"	1/8"	105 psi	Natural	17 1/2"	—	**2LZU7**
1 3/4"	2"	1/8"	91 psi	Natural	20"	—	**2LZU8**
2"	2 1/4"	1/8"	80 psi	Natural	22 1/2"	—	**2LZU9**
500 ft L							
3/8"	1/2"	1/16"	125 psi	Blue	4"	—	**5MPT4**
	1/2"	1/16"	125 psi	Green	2 1/2"	—	**5MPT5**
	1/2"	1/16"	125 psi	Green	4"	—	**2LZL3**
	1/2"	1/16"	125 psi	Natural	4"	—	**2LZK2**
	1/2"	1/16"	125 psi	Red	4"	—	**5MPT2**
	1/2"	1/16"	125 psi	Yellow	2 1/2"	—	**5MPT6**
1,000 ft L							
5/32"	1/4"	3/64"	150 psi	Green	2"	—	**2LZL1**
1/4"	3/8"	1/16"	125 psi	Green	3"	—	**2LZL2**
Shore D: 55, Temp. Range: -50° to 140 °F							
100 ft L							
5/32"	1/4"	1/16"	150 psi	Black	2"	—	**1PBZ4**
	1/4"	1/16"	150 psi	Blue	2"	—	**1PBY3**
	1/4"	1/16"	150 psi	Natural	2"	—	**4HM13**
	1/4"	1/16"	150 psi	Red	2"	—	**1PBW1**
	1/4"	1/16"	150 psi	Yellow	2"	—	**1PBX2**
1/4"	3/8"	1/16"	125 psi	Black	3"	—	**1PBZ8**
	3/8"	1/16"	125 psi	Blue	3"	—	**1PBY7**
	3/8"	1/16"	125 psi	Red	3"	—	**1PBW5**
	3/8"	1/16"	125 psi	Yellow	3"	—	**1PBX6**
	3/8"	1/16"	150 psi	Natural	3"	—	**4HM15**
3/8"	1/2"	1/16"	100 psi	Black	4"	—	**1PCC3**
	1/2"	1/16"	100 psi	Blue	4"	—	**1PBZ2**
	1/2"	1/16"	100 psi	Red	4"	—	**1PBW9**
	1/2"	1/16"	100 psi	Yellow	4"	—	**1PBY1**
	1/2"	1/16"	125 psi	Natural	4"	—	**4HM12**
2.5-mm	4-mm	1/32"	180 psi	Black	32-mm	—	**2LZR5**
	4-mm	1/32"	180 psi	Natural	32-mm	—	**2LZP9**
4-mm	6-mm	1/32"	150 psi	Black	48-mm	—	**2LZR6**
	6-mm	1/32"	150 psi	Natural	48-mm	—	**2LZR1**
6-mm	8-mm	1/32"	150 psi	Black	64-mm	—	**2LZR7**
	8-mm	1/32"	150 psi	Natural	64-mm	—	**2LZR2**
8-mm	10-mm	1/32"	125 psi	Black	80-mm	—	**2LZR8**
	10-mm	1/32"	125 psi	Natural	80-mm	—	**2LZR3**
1,000 ft L							
5/32"	1/4"	1/16"	150 psi	Black	2"	—	**1PBZ6**
	1/4"	1/16"	150 psi	Blue	2"	—	**1PBY5**
	1/4"	1/16"	150 psi	Red	2"	—	**1PBW3**
	1/4"	1/16"	150 psi	Yellow	2"	—	**1PBX4**
	1/4"	1/4"	150 psi	Natural	2"	—	**4HM14**
1/4"	3/8"	1/16"	125 psi	Black	3"	—	**1PCC1**
	3/8"	1/16"	125 psi	Blue	3"	—	**1PBY9**
	3/8"	1/16"	125 psi	Red	3"	—	**1PBW7**
	3/8"	1/16"	125 psi	Yellow	2"	—	**1PBX8**
	3/8"	1/16"	150 psi	Natural	3"	—	**4HM16**

Eldon James

Nylon Tubing

High-strength nylon tubing is engineered to help provide long, leak-free service, while requiring little maintenance. It resists chemicals, humidity, and abrasion. Use in industrial applications such as packaging, conveyors, automation machines, and robotics. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Tube Color	Brand	Item No.
Shore D: 60, Temp. Range: -4 °F to 175 °F						
50 ft						
3/32 in	1/8 in	1/64 in	267 psi @ 68 °F	Natural	—	**2VDL5**
7/64 in	5/32 in	1/32 in	333 psi @ 68 °F	Black	—	**2VDK8**
	5/32 in	1/32 in	333 psi @ 68 °F	Natural	—	**2VDL6**
11/64 in	1/4 in	1/32 in	400 psi @ 68 °F	Black	—	**2VDL1**
	1/4 in	1/32 in	400 psi @ 68 °F	Blue	—	**2VDT6**
	1/4 in	1/32 in	400 psi @ 68 °F	Natural	—	**2VDL8**
	1/4 in	1/32 in	400 psi @ 68 °F	Red	—	**2VDU3**
15/64 in	5/16 in	3/64 in	333 psi @ 68 °F	Black	—	**2VDL2**
	5/16 in	3/64 in	333 psi @ 68 °F	Natural	—	**2VDL9**
9/32 in	3/8 in	1/20 in	333 psi @ 68 °F	Black	—	**2VDL3**
	3/8 in	1/20 in	333 psi @ 68 °F	Natural	—	**2VDN1**
	3/8 in	1/2 in	333 psi @ 68 °F	Blue	—	**2VDT8**
3/8 in	1/2 in	1/16 in	267 psi @ 68 °F	Black	—	**2VDL4**
	1/2 in	1/16 in	267 psi @ 68 °F	Natural	—	**2VDN2**
100 ft						
3/32 in	1/8 in	1/64 in	267 psi @ 68 °F	Black	—	**2VDP1**
	1/8 in	1/64 in	267 psi @ 68 °F	Natural	—	**2VDN3**
7/64 in	5/32 in	1/32 in	333 psi @ 68 °F	Black	—	**2VDP2**
	5/32 in	1/32 in	333 psi @ 68 °F	Natural	—	**2VDN4**
9/64 in	3/16 in	1/32 in	267 psi @ 68 °F	Natural	—	**2VDN5**
11/64 in	1/4 in	1/32 in	400 psi @ 68 °F	Black	—	**2VDP4**
	1/4 in	1/32 in	400 psi @ 68 °F	Green	—	**2VDX6**
	1/4 in	1/32 in	400 psi @ 68 °F	Natural	—	**2VDN6**
	1/4 in	1/32 in	400 psi @ 68 °F	Red	—	**2VDW9**
	1/4 in	1/32 in	400 psi @ 68 °F	Yellow	—	**2VDY3**
	1/4 in	1 mm	400 psi @ 68 °F	Blue	—	**2VDW3**
15/64 in	5/16 in	3/64 in	333 psi @ 68 °F	Natural	—	**2VDN7**
9/32 in	3/8 in	3/64 in	333 psi @ 68 °F	Black	—	**2VDP6**
	3/8 in	3/64 in	333 psi @ 68 °F	Natural	—	**2VDN8**
	3/8 in	1/2 in	333 psi @ 68 °F	Blue	—	**2VDW5**
3/8 in	1/2 in	1/16 in	267 psi @ 68 °F	Black	—	**2VDP7**
	1/2 in	1/16 in	267 psi @ 68 °F	Natural	—	**2VDN9**
4 mm	6 mm	1/32 in	400 psi @ 68 °F	Black	—	**2VDY8**
	6 mm	1/32 in	400 psi @ 68 °F	Natural	—	**2VDZ4**
8 mm	10 mm	1/32 in	200 psi @ 68 °F	Natural	—	**2VDZ6**
250 ft						
11/64 in	1/4 in	1/32 in	400 psi @ 68 °F	Black	—	**2VDR9**
	1/4 in	1/32 in	400 psi @ 68 °F	Natural	—	**2VDR2**
9/32 in	3/8 in	1/2 in	333 psi @ 68 °F	Natural	—	**2VDR4**
Shore D: 60, Temp. Range: -40 °F to 200 °F						
100 ft						
15/64 in	5/16 in	3/64 in	333 psi @ 68 °F	Black	—	**2VDP5**
Shore D: 60 +/-3, Temp. Range: -40 °F to 200 °F						
50 ft						
7/64 in	5/32 in	1/32 in	333 psi @ 68 °F	Blue	—	**2VDT5**
9/64 in	3/16 in	1/32 in	267 psi @ 68 °F	Natural	—	**2VDL7**
11/64 in	1/4 in	1/32 in	400 psi @ 68 °F	Yellow	—	**2VDV6**
15/64 in	5/16 in	3/64 in	333 psi @ 68 °F	Blue	—	**2VDT7**
	5/16 in	3/64 in	333 psi @ 68 °F	Red	—	**2VDU4**
9/32 in	3/8 in	3/64 in	333 psi @ 68 °F	Green	—	**2VDV2**
100 ft						
9/32 in	3/8 in	3/64 in	333 psi @ 68 °F	Red	—	**2VDX2**
3/8 in	1/2 in	1/16 in	267 psi @ 68 °F	Green	—	**2VDX9**
4 mm	6 mm	1 mm	400 psi @ 68 °F	Blue	—	**4HHF4**
10 mm	12 mm	1/32 in	233 psi @ 68 °F	Clear	—	**2VDZ7**
250 ft						
7/64 in	5/32 in	1/32 in	333 psi @ 68 °F	Black	—	**2VDR7**
	5/32 in	1/32 in	333 psi @ 68 °F	Blue	—	**4HHD6**
	5/32 in	1/32 in	333 psi @ 68 °F	Red	—	**4HHD7**
11/64 in	1/4 in	1/32 in	400 psi @ 68 °F	Blue	—	**4HHC7**
	1/4 in	1/32 in	400 psi @ 68 °F	Green	—	**4HHD1**
	1/4 in	1/32 in	400 psi @ 68 °F	Red	—	**4HHC8**
15/64 in	5/16 in	3/64 in	333 psi @ 68 °F	Black	—	**2VDT1**
	5/16 in	3/64 in	333 psi @ 68 °F	Natural	—	**2VDR3**
	5/16 in	3/64 in	333 psi @ 68 °F	Red	—	**4HHE2**
9/32 in	3/8 in	3/64 in	333 psi @ 68 °F	Blue	—	**4HHE5**
	3/8 in	3/64 in	333 psi @ 68 °F	Yellow	—	**4HHE7**
3/8 in	1/2 in	1/16 in	267 psi @ 68 °F	Black	—	**2VDT3**
	1/2 in	1/16 in	267 psi @ 68 °F	Natural	—	**2VDR5**
Shore D: 70, Temp. Range: -60 °F to 200 °F						
100 ft						
3/16 in	1/4 in	1/32 in	250 psi	Natural	—	**4HM08**
17/64 in	3/8 in	3/64 in	250 psi	Natural	—	**4HM10**
Shore R: 121, Temp. Range: -40 °F to 135 °F						
5/64 in	1/8 in	1/32 in	850 psi @ 70 °F	Natural	E. James	**4CHA5**
3/32 in	1/8 in	1/64 in	455 psi @ 70 °F	Natural	E. James	**4CHA6**
7/64 in	5/32 in	1/32 in	700 psi @ 70 °F	Natural	E. James	**4CHA7**
	3/16 in	1/32 in	960 psi @ 70 °F	Natural	E. James	**4CHA8**
9/64 in	3/16 in	1/32 in	565 psi @ 70 °F	Natural	E. James	**4CHA9**
5/32 in	1/4 in		920 psi @ 70 °F	Natural	E. James	**4CHC1**
3/16 in	1/4 in	1/32 in	550 psi @ 70 °F	Natural	E. James	**4CHC3**
	5/16 in	1/16 in	910 psi @ 70 °F	Natural	E. James	**4CHC2**
7/32 in	3/8 in	5/64 in	920 psi @ 70 °F	Natural	E. James	**4CHC4**
15/64 in	5/16 in	1/32 in	465 psi @ 70 °F	Natural	E. James	**4CHC5**
19/64 in	3/8 in	3/64 in	440 psi @ 70 °F	Natural	E. James	**4CHC7**
	1/2 in	7/64 in	980 psi @ 70 °F	Natural	E. James	**4CHC6**
3/8 in	1/2 in	1/16 in	500 psi @ 70 °F	Natural	E. James	**4CHC8**
2.7 mm	4 mm	0.65 mm	695 psi @ 70 °F	Natural	E. James	**4CHC9**
3 mm	5 mm	1.0 mm	900 psi @ 70 °F	Natural	E. James	**4CHD1**
4 mm	6 mm	1.0 mm	720 psi @ 70 °F	Natural	E. James	**4CHD2**
6 mm	8 mm	1.0 mm	570 psi @ 70 °F	Natural	E. James	**4CHD3**
8 mm	10 mm	1.0 mm	400 psi @ 70 °F	Natural	E. James	**4CHD4**
10 mm	12 mm	1.0 mm	325 psi @ 70 °F	Natural	E. James	**4CHD5**

Natural
2VDL5

Black
2VDK8

Red
2VDU3

Blue
2VDT5

Yellow
2VDV6

Green
2VDV2

Clear
2VDZ7

2VKR1

High-Strength Nylon Tubing

- Temp. range: -60° to 200°F

High tensile strength enhances coupling retention in high-pressure, -temperature, and -vibration environments. Designed for use with machine tool systems, marine control systems, and oil/chemical process lines.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Black Item No.	Natural Item No.
50 ft L					
3/32"	1/8"	1/64"	425 psi	**2VKR2**	**2VKT5**
9/64"	3/16"	1/32"	425 psi	**2VKR4**	**2VKT7**
3/16"	1/4"	1/32"	425 psi	**2VKR6**	**2VKT9**
15/64"	5/16"	3/64"	425 psi	**2VKR8**	**2VKU2**
9/32"	3/8"	3/64"	425 psi	**2VKT1**	**2VKU4**
3/8"	1/2"	1/16"	375 psi	**2VKT3**	**2VKU6**
250 ft L					
3/32"	1/8"	1/64"	425 psi	**2VKR1**	**2VKT4**
9/64"	3/16"	1/32"	425 psi	—	**2VKT6**
3/16"	1/4"	1/32"	425 psi	**2VKR5**	**2VKT8**
15/64"	5/16"	3/64"	425 psi	**2VKR7**	**2VKU1**
9/32"	3/8"	3/64"	425 psi	**2VKR9**	**2VKU3**
3/8"	1/2"	1/16"	375 psi	**2VKT2**	**2VKU5**
500 ft L					
9/64"	3/16"	1/32"	425 psi	**2VKR3**	—

4EHG4

4EHG7

Continental Industries, Inc.
The Ultimate Connection

Buriable Gas Fittings and Tubing

TUBE FITTINGS

- WOG @ 150F°: 125 psi
- Temp. range: -40 to 120°F

Use with PGA gas pipe, tubing, and all gas, plumbing, and propane applications. No tooling necessary. Have a permanent leak-proof joint; fully-retained gasket prevents cold flow. Meet ASTM D 2513 ASME B31.8-1995, DOT, NFPA, CSA, ICC, and IAPMO.

GAS TUBING

Underground Natural and LP Gas Tubing features polyethylene construction and is ideal for use in buried underground applications for natural gas and major components, such as propane and butane.

Material of Construc.	Pipe Size	Tube Size	Connection	Brand	Item No.
Tube Fittings					
Buriable Gas Nylon Compression Fittings					
Polyamide 11	1/2 in CTS	5/8 in OD	Tube	Continental	**4EHG3**
	1/2 in CTS	5/8 in OD	Tube	Continental	**4EHG5**
	3/4 in IPS	—	Pipe	Continental	**4EHF9**
	1 in IPS	—	Pipe	Continental	**4EHG1**
	3/4 in IPS	—	Pipe	Continental	**4EHG4**
	3/4 in IPS	—	Pipe	Continental	**4EHG6**
Steel Compression Fittings for Buriable Gas					
Steel	3/4 in IPS	—	Pipe	Continental	**4EHJ4**
	1/2 in CTS	5/8 in OD	Tube	Continental	**4EHJ3**
	3/4 in	3/4 in	NPT x Pipe	Continental	**4EHH1**
	3/4 in	1 in	NPT x Pipe	Continental	**4EHH3**
	1 in	1 in	NPT x Pipe	Continental	**4EHH4**
	3/4 in	3/4 in	NPT x Pipe	Continental	**4EHH8**
	3/4 in	1 in	NPT x Pipe	Continental	**4EHJ1**
	1 in	1 in	NPT x Pipe	Continental	**4EHJ2**
	1/2 in	1/2 in	PE Compression x MNPT	Continental	**4EHG7**
	3/4 in	1/2 in	PE Compression x MNPT	Continental	**4EHG8**
	1/2 in	1/2 in	NPT x Tube	Continental	**4EHH5**
	3/4 in	1/2 in	NPT x Tube	Continental	**4EHH6**
	3/4 in	3/4 in	IPS x MPT	Continental	**4EHJ6**
	1 in	1 in	IPS x MPT	Continental	**4EHJ7**

For Use With	Tube Size	Inside Dia.	Outside Dia.	Overall Length	Brand	Item No.
Tubing for Natural Gas/LP Gas Only						
Natural Gas Fittings Only	1/2 in	0.445 in	0.625 in	150 ft	—	**4EHF6**
	1/2 in	0.445 in	0.625 in	500 ft	—	**4EHF7**
	3/4 in	0.86 in	1.05 in	150 ft	—	**4EHF1**
	1 in	1.07 in	1.315 in	150 ft	—	**4EHF3**

PFA Fluoropolymer Tubing

- 50-ft. length
- Natural color
- FDA Compliant resin, USP Class V1 Compliant, ASTM D.3307-10

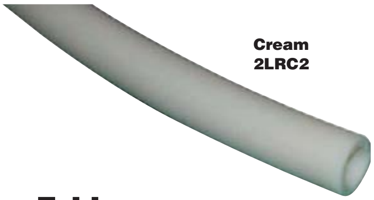
Nonflammable, heat-resistant tubing helps protect against damage from most chemicals and solvents. The translucent tubing features high flexibility and a nonstick surface. Use PFA tubing for semiconductor, chemical processing, life science, food and beverage, environmental, and general industrial applications.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Working Pressure @ 73 F	Temp. Range	Tube Bend Radius	Item No.
High Purity Perfluoroalkoxy						
Shore-D:-55-to-65						
5/32"	1/4"	3/64"	370 psi	-100° to 500°F	1/2"	**53XL48**
3/8"	1/2"	1/16"	230 psi	-100° to 500°F	2 1/4"	**53XL50**
5/8"	3/4"	1/16"	140 psi	-100° to 500°F	4 1/8"	**53XL51**
7/8"	1"	1/16"	100 psi	-100° to 500°F	8"	**53XL52**
Perfluoroalkoxy						
Shore-D:-50-to-60						
1/16"	1/8"	1/32"	500 psi	-450° to 500°F	3/8"	**2VLU4**
1/8"	1/4"	1/16"	500 psi	-450° to 500°F	1/2"	**2VLU8**
1/8"	3/16"	1/32"	320 psi	-450° to 500°F	5/8"	**2VLU5**
5/32"	1/4"	3/64"	370 psi	-450° to 500°F	1"	**2VLU7**
3/16"	1/4"	1/32"	230 psi	-450° to 500°F	7/8"	**2VLU6**
1/4"	3/8"	1/16"	320 psi	-450° to 500°F	1 1/4"	**2VLV3**
5/16"	3/8"	1/32"	140 psi	-450° to 500°F	3 1/4"	**2VLV2**
3/8"	1/2"	1/16"	230 psi	-450° to 500°F	3"	**2VLV6**
7/16"	1/2"	1/32"	100 psi	-450° to 500°F	4 3/4"	**2VLV5**

PTFE Tubing

Low friction coefficient allows higher flows and easier washdown; eliminates process-contaminating residue. Flexible, chemical resistant, nonflammable, and heat resistant. Superior dielectric strength and inert to most chemicals and solvents. For use in industrial, chemical processing, general laboratory, automotive, insulation, and food service applications.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Working Pressure @ 73 F	Temp. Range	Tube Color	Tube Bend Radius	Item No.
Shore D: 50 to 65							
50 ft							
1/16"	1/8"	1/32"	290 psi	Up to 500°F	Translucent	1/2"	**53XL53**
3/32"	5/32"	1/32"	220 psi	Up to 500°F	Translucent	5/8"	**53XL61**
1/8"	3/16"	1/32"	180 psi	Up to 500°F	Translucent	3/4"	**53XL54**
	1/4"	1/16"	290 psi	Up to 500°F	Translucent	1/2"	**53XL56**
3/16"	1/4"	1/32"	130 psi	Up to 500°F	Translucent	1"	**53XL55**
	5/16"	1/16"	222 psi	Up to 500°F	Translucent	7/8"	**53XL62**
1/4"	5/16"	1/32"	100 psi	Up to 500°F	Translucent	2 1/4"	**53XL57**
	3/8"	1/16"	180 psi	Up to 500°F	Translucent	1"	**53XL59**
5/16"	3/8"	1/32"	80 psi	Up to 500°F	Translucent	2 3/4"	**53XL58**
	7/16"	1/16"	150 psi	Up to 500°F	Translucent	2 1/4"	**53XL64**
3/8"	7/16"	1/32"	70 psi	Up to 500°F	Translucent	4"	**53XL63**
	1/2"	1/16"	130 psi	Up to 500°F	Translucent	2 1/4"	**53XL60**
7/16"	1/2"	1/32"	60 psi	Up to 500°F	Translucent	4"	**53XL65**
1/2"	9/16"	1/32"	55 psi	Up to 500°F	Translucent	5"	**53XL66**
	5/8"	1/16"	100 psi	Up to 500°F	Translucent	3"	**53XL69**
9/16"	5/8"	1/32"	50 psi	Up to 500°F	Translucent	5 1/2"	**53XL68**
5/8"	11/16"	1/32"	45 psi	Up to 500°F	Translucent	6 1/4"	**53XL70**
11/16"	3/4"	1/32"	40 psi	Up to 500°F	Translucent	6 1/4"	**53XL71**
3/4"	27/32"	13/32"	45 psi	Up to 500°F	Translucent	8"	**53XL72**
1"	1 7/64"	1/16"	40 psi	Up to 500°F	Translucent	17 1/2"	**53XL73**
Shore D: 55 to 65							
25 ft							
2 mm	4 mm	1/32"	290 psi	-450° to 500°F	Natural	1/2"	**2VLW5**
4 mm	6 mm	1/32"	180 psi	-450° to 500°F	Natural	1"	**2VLW7**
6 mm	8 mm	1/32"	130 psi	-450° to 500°F	Natural	2"	**2VLW9**
100 ft							
1/16"	1/8"	1/32"	372 psi	-400° to 500°F	Natural	3/4"	**1PCV1**
1/8"	1/4"	1/16"	375 psi	-400° to 500°F	Natural	3/4"	**1PCV4**
5/32"	1/4"	3/64"	275 psi	-400° to 500°F	Natural	3/4"	**1PCV3**
3/16"	1/4"	1/32"	174 psi	-400° to 500°F	Natural	3/4"	**1PCV2**
1/4"	3/8"	1/16"	240 psi	-400° to 500°F	Natural	3/4"	**1PCV5**



Cream
2LRC2

SAINT-GOBAIN

50-ft. Neoprene Tubing

- Temp. range: -75° to 275°F
- Hardness: Shore A61

Tubing is engineered to provide excellent resistance to heat, ozone, abrasion, and inorganic fluid. It also resists damage from UV light, and offers longer service life than neoprene, EPDM, and other general-purpose tubing. Use in food and dairy processing applications, cosmetic production, hot beverage dispensing, water purification lines, sanitization delivery, soap dispensing, and pesticide and fertilizer delivery, as well as ink and toner feed lines and chemical transfer applications. Norprene tubing is heat-sealable, and can be joined without fittings.

Thermoplastic A-60-G Tubing—Black, abrasion resistant, and compatible with cleaners and sanitizers.

Norprene A-60-F Tubing—Burst pressure: 1:5 ratio. Meets FDA food contact, 3-A sanitary standards, NSF-51.

Norprene A-60-Fl. B.—Ozone- and UV light-resistant. Burst pressure: 1:4 ratio. Meets FDA food contact, 3-A sanitary standards, NSF-51.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Thermoplastic Elastomer Norprene, A-60-G Black Item No.	Norprene, A-60-F Cream Item No.	Norprene, A-60-F I.B. Cream Item No.
1⁄16"	3⁄16"	1⁄16"	34 psi @ 73 °F	2DCC5	2LRC2	—
1⁄8"	1⁄4"	1⁄16"	19 psi @ 73 °F	2DCC7	2LRC3	—
	3⁄8"	1⁄8"	34 psi @ 73 °F	2DCC8	—	—
3⁄16"	5⁄16"	1⁄16"	13 psi @ 73 °F	2DCC9	2LRC4	—
	3⁄8"	3⁄32"	19 psi @ 73 °F	2DCD1	—	—
1⁄4"	3⁄8"	1⁄16"	10 psi @ 73 °F	2DCD3	2LRC5	—
	7⁄16"	3⁄32"	15 psi @ 73 °F	2DCD4	—	—
	1⁄2"	1⁄8"	19 psi @ 73 °F	2DCD5	2LRC6	—
	1⁄2"	1⁄8"	125 psi @ 73 °F	—	—	2LRD4
	5⁄8"	3⁄16"	26 psi @ 73 °F	2DCD6	—	—
5⁄16"	7⁄16"	1⁄16"	8 psi @ 73 °F	2DCD7	2LRC7	—
	1⁄2"	3⁄32"	12 psi @ 73 °F	2DCD8	—	—
	13⁄16"	1⁄4"	28 psi @ 73 °F	2DCD9	—	—
3⁄8"	1⁄2"	1⁄16"	7 psi @ 73 °F	2DCE1	2LRC8	—
	5⁄8"	1⁄8"	13 psi @ 73 °F	2DCE3	2LRC9	—
	5⁄8"	1⁄8"	105 psi @ 73 °F	—	—	2LRD5
1⁄2"	5⁄8"	1⁄16"	6 psi @ 73 °F	2DCE5	—	—
	11⁄16"	3⁄32"	8 psi @ 73 °F	2DCE6	—	—
	3⁄4"	1⁄8"	10 psi @ 73 °F	2DCE7	2LRD1	—
	3⁄4"	1⁄8"	100 psi @ 73 °F	—	—	2LRD6
5⁄8"	7⁄8"	1⁄8"	8 psi @ 73 °F	2DCE9	2LRD2	—
3⁄4"	1"	1⁄8"	7 psi @ 73 °F	2DCF1	2LRD3	—

6ZF03
(tubes not included)

Tube Fastening Clips

- Temp. range: -40° to 212°F
- Polyacetal with ultraviolet inhibitors

Clips hold 1 or 2 lengths of material with uniform spacing. Clips snap onto hose, wire, pipe, or any circulating section item with just a quarter turn. Countersunk mounting holes.

Min. Dia. (in.)	Max. Dia. (in.)	Center Hole (in.)	Item No.	Pkg. Qty.
5⁄32 in	1⁄4 in	0.12 in	6ZF03	50
1⁄4 in	5⁄16 in	0.12 in	6ZF04	50
5⁄16 in	3⁄8 in	0.16 in	6ZF05	50
3⁄8 in	1⁄2 in	0.16 in	6ZF06	50
1⁄2 in	5⁄8 in	0.17 in	6ZF07	50
5⁄8 in	3⁄4 in	0.2 in	6ZF08	25
3⁄4 in	7⁄8 in	0.22 in	6ZF09	25
7⁄8 in	1 in	0.25 in	6ZF10	25

Dawn

34A524

Hand Pipe and Tube Cutters

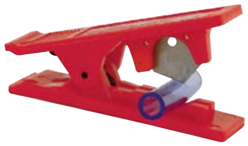
Cut tubing material including plastic, rubber and polyethylene pipe.

Cutting Cap.	Cuts	Overall Length (in.)	Cutting Action	Brand	Cutters Item No.
1⁄8 in to 1⅝ in	Plastic Tubing, Polyethylene Pipe, Rubber and Plastic Hose, Thin Wall PVC	8½	Manual	Dawn	39EP27
Up To 1 in	Plastic, PVC, Rubber	8½	Manual	—	4HL90
1½	Rope, PVC Pipe, Hoses, Tubing, Poly Pipe, Conduit, Belts, Or Branches	8	Spring	—	2NYY9
1⅝		7½	Ratchet	—	34A524
1⅝		9	Ratchet	—	34A526
1⅝		10	Ratchet	—	2NYZ2
—		—	Spring	—	2TKV7

For Use With	Brand	Replacement Blades Item No.
39EP27	Dawn	39EP26
Kwikcut, For 4HL90	—	2NYZ4
Kwikcut, For 2NYZ2	—	2NYZ3
Kwikcut, For 2TKV7	—	2TKV8

Tube Cutters

Slice easily through tubing materials such as nylon, PVC, and polyethylene. Replacement blade No. 2TKV9 sold in pkg. of 10.



4HL89

1DDV9

Cap. (in.)	Overall Length (in.)	Cutters Item No.	Replacement Blade Item No.
Up to ⅝ in	3	4HL89	2TKV9
1⁄8 to ½	3.11	1DDV9	—

WORTHINGTON SINCE 1955 · Oatey® · HARRIS · WEILER · RECTORSEAL

Solder, Flux, and Brushes

Item	Application	Contents	Wire Dia.	Melting Temperature (Minimum)	Melting Temperature (Maximum)	Container Size	Brand	Item No.
Solder								
Solder Wire	Large Diameter Pipes	Copper, Silver, Tin	0.118 in	440 °F	482 °F	1 lb	Harris	1UYG8
	Plumbing and Potable Water	Copper, Selenium, Tin	0.118 in	410 °F	418 °F	1 lb	Harris	1UYK9
	Plumbing	5% Antimony, 95% Tin	0.117 in	450 °F	464 °F	1 lb	Oatey	41GP10
	Plumbing and Potable Water	5% Antimony, 95% Tin	0.118 in	455 °F	464 °F	1 lb	Harris	1UYG9
	Electrical, Small Connection	5% Antimony, 95% Tin	0.125 in	452 °F	464 °F	8 oz	Harris	3THF3
	Used Where Lead Bearing Solders are Prohibited	Nickel	0.125 in	460 °F	630 °F	8 oz	Harris	3THF4
	Speedy is a Lead-Free, Low Temperature Alloy Formulated for Joining Copper Pipe in Potable Water Systems	Nickel	0.125 in	450 °F	555 °F	1 lb	Harris	3THF7
	Copper Joints	Nickel	0.125 in	438 °F	729 °F	1 lb	Harris	3THE3
	Sheet Metal Work, Welding	50% Lead, 50% Tin	0.125 in	360 °F	421 °F	1 lb	Harris	1UYH2
Solder Wire & Flux Kit	Plumbing and Potable Water Applications	Copper, Selenium, Tin	0.118 in	419 °F	419 °F	4 oz	Harris	1UYG5

Type	Material	Container Size	Brand	Item No.
Soldering Flux, Working Range 40° to 120°°F				
Lead Free	Petrolatum	1.7 oz	Rectorseal	442Y43
		4 oz	Rectorseal	442Y44
		8 oz	Rectorseal	442Y45
		16 oz	Rectorseal	442Y46
Water Soluble	Paraffinic Oil	2 oz	Rectorseal	442Y47
		4 oz	Rectorseal	442Y48
		16 oz	Rectorseal	442Y49
Soldering Flux, Working Range Below 700°°F				
Paste	—	4 oz	Harris	3JXE8

Item	Brush Dia.	Brush Length	Overall Length	Brand	Item No.
Brushes					
Hand Held Applications					
Fitting Brush	⅝ in	1 in	8 in	Worthington	1UYJ3
Power Spiral Brush, for Cordless Drills					
Spiral Brush Tool	0.5 in	1 in	5 ¼ in	Weiler	2ELZ5
	0.75 in	1 in	5 ¼ in		2ELZ6
	1 in	1 in	5 ¼ in		2ELZ7
Spiral Brush Tool Kit	0.5 in, 0.75 in, 1 in	1 in	5 ¼ in		2ELZ4 *

** Kit includes 1 each of Nos. 2ELZ5, 2ELZ6, and 2ELZ7, and a quick-connect chuck.*

1UYG8

3THE3

1UYH2

1UYJ3

No 2ELZ4

Submersible Sump Pumps

- Single phase
- Nonclog impeller design

Models operate while completely underwater to cool the pump motors so they can run longer without overheating, compared to upright/pedestal sump pumps that have motors above the sump pit. All 110V models are compatible with most standard U.S. residential electrical wall outlets and have a three prong/grounded power cord plug.

Note: For float switches, see page 2631. For control panels, see page 2630. Check valves are on page 2630 and PVC pipe is on page 2808. For primer and PVC cement, see page 2822, 2823.

Cast-Iron Body—Helps dissipate heat as the pump operates. The painted or powder-coated finish protects the body from corrosion. 220 voltage pumps allow for larger motors that require less current than lower-voltage motors.

Polypropylene Body—Plastic body won't corrode. All models, except 3YU65 have a switch that starts and stops the pump motor.

Valox Body—Features a unibody housing that is corrosion proof and reduces the risk of potential leak paths.

Stainless Steel Body—Feature a stainless-steel body that's more corrosion resistant than cast iron and have a switch that starts and stops the pump motor. Unpainted finish.

Aluminum Body—Lightweight aluminum body provides good corrosion resistance. Pumps have PSC motors with thermal protection.

Cast-Bronze Body—Feature a cast-bronze body that is more corrosion resistant than cast iron and have a switch that starts and stops the pump motor. Unpainted finish.

HP	Nominal Voltage	Amps	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Base Material*	Impeller Material*	Max. Head	On Point	Off Point	Discharge	Max. Dia. Solids	Max. Liquid Temp.	Brand	Item No.
Cast-Iron Body																
Integral																
⅙	110 V AC	4 A	Sensor	30 gpm	12 in	10 ft	PL	TPL	23 ft	—	—	1 ½ in FNPT	⅜ in	104 °F	Flint & Walling	**45HR07**
	110 V AC	9.7 A	Vertical Float	34 gpm	18 in	9 ft	CI	CI	19 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**2P549**
3⁄10	110 V AC	9.7 A	Vertical Float	34 gpm	18 in	9 ft	PP	Pw/MI	19 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**2P547**
	110 V AC	9.7 A	Vertical Float	34 gpm	18 in	10 ft	CI	CI	19 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**436R35**
	110 V AC	5 A	Vertical Float	50 gpm	18 in	10 ft	PP	N	28 ft	8 in to 11 in	2 in to 5 in	1 ½ in FNPT	½ in	140 °F	Little Giant	**53DH04**
	110 V AC	9 A	Diaphragm	—	—	8 ft	PP	N	18 ft	—	—	1 ½ in FNPT	⅛ in	150 °F	Little Giant	**24WN62**
⅓	110 V AC	10 A	Vertical Float	35 gpm	12 in	9 ft	TPL	N	22 ft	7 ¼ in	3 ½ in	1 ½ in FNPT	½ in	130 °F	Goulds Water Tech.	**462D15**
	110 V AC	10 A	Vertical Float	42 gpm	12 in	25 ft	TPL	N	22 ft	7 ¼ in	3 ½ in	1 ½ in FNPT	½ in	130 °F	Goulds Water Tech.	**462D16**
	110 V AC, 220 V AC	9 A	Diaphragm	29 gpm	—	10 ft	PP	N	18 ft	7 in to 10 in	1 in to 4 in	1 ½ in FNPT	⅛ in	140 °F	Little Giant	**3P639**
	110 V AC	6.5 A	Vertical Float	57 gpm	18 in	10 ft	PP	N	36 ft	8 in to 11 in	2 in to 5 in	1 ½ in FNPT	½ in	140 °F	Little Giant	**53DH06**
	110 V AC	8 A	Vertical Float	71 gpm	12 in	15 ft	CI	N	26 ft	8 ½ in	3 in	1 ½ in FNPT	½ in	130 °F	Goulds Water Tech.	**462D17**
½	110 V AC	9.4 A	Vertical Float	61 gpm	18 in	15 ft	CI	PL	23 ft	9 ½ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**2P550**
	110 V AC	10.5 A	Vertical Float	68 gpm	18 in	15 ft	CI	TPL	26 ft	9 ½ in	2 ½ in	1 ½ in FNPT	½ in	130 °F	Zoeller	**436R36**
	110 V AC	10.7 A	Vertical Float	79 gpm	18 in	10 ft	CI	BZ, CI	26 ft	10 in	2 ¾ in	1 ½ in FNPT	⅝ in	130 °F	Zoeller	**2P551**
Integral																
½	220 V AC	4.7 A	Vertical Float	61 gpm	18 in	15 ft	CI	PL	23 ft	9 ½ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**5CZG4**
No Switch Included																
⅙	110 V AC	4 A	No Switch Incl.	30 gpm	12 in	10 ft	PL	TPL	23 ft	—	—	1 ½ in FNPT	⅜ in	104 °F	Flint & Walling	**45HR06**
	110 V AC	9.7 A	No Switch Incl.	34 gpm	18 in	9 ft	CI	CI	19 ft	—	—	1 ½ in FNPT	½ in	130 °F	Zoeller	**5CZG5**
	110 V AC	9.7 A	No Switch Incl.	34 gpm	18 in	9 ft	PP	TPL	19 ft	—	—	1 ½ in FNPT	½ in	130 °F	Zoeller	**4NW36**
3⁄10	110 V AC	9.7 A	No Switch Incl.	34 gpm	18 in	20 ft	PL	Pw/MI	19 ft	—	—	1 ½ in FNPT	½ in	130 °F	Zoeller	**4HEY1**
	220 V AC	4.8 A	No Switch Incl.	34 gpm	18 in	9 ft	CI	CI	19 ft	—	—	1 ½ in FNPT	½ in	130 °F	Zoeller	**4NW37**
	220 V AC	9.7 A	No Switch Incl.	34 gpm	18 in	20 ft	CI	Pw/MI	19 ft	5 ¾ in	1 ½ in	1 ½ in FNPT	½ in	130 °F	Zoeller	**19T427**
	110 V AC	5 A	No Switch Incl.	50 gpm	18 in	10 ft	PP	N	28 ft	—	—	1 ½ in FNPT	½ in	140 °F	Little Giant	**53DH05**
⅓	110 V AC	5.8 A	No Switch Incl.	43 gpm	12 in	10 ft	CI	CI	30 ft	—	—	1 ½ in FNPT	½ in	104 °F	Dayton	**4HU68**
	110 V AC	6.8 A	No Switch Incl.	57 gpm	—	15 ft	CI	CI	30 ft	—	—	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB73**
	110 V AC	9 A	No Switch Incl.	29 gpm	—	10 ft	PP	N	18 ft	—	—	1 ½ in FNPT	⅛ in	140 °F	Little Giant	**3P640**
4⁄10	110 V AC	10 A	No Switch Incl.	42 gpm	—	25 ft	PP	PP	23 ft	—	—	1 ½ in FNPT	⅛ in	140 °F	Little Giant	**3P642**
	110 V AC	6.8 A	No Switch Incl.	57 gpm	12 in	10 ft	CI	CI	30 ft	—	—	1 ½ in FNPT	½ in	104 °F	Dayton	**4HU69**
½	110 V AC	9.4 A	No Switch Incl.	61 gpm	18 in	15 ft	CI	PL	23 ft	—	—	1 ½ in FNPT	½ in	130 °F	Zoeller	**4NW38**
	110 V AC	9.8 A	No Switch Incl.	70 gpm	—	15 ft	CI	CI	32 ft	—	—	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB74**
	110 V AC	10.7 A	No Switch Incl.	79 gpm	18 in	10 ft	CI	BZ, CI	26 ft	—	—	1 ½ in FNPT	⅝ in	130 °F	Zoeller	**4NV97**
¾	110 V AC	10.5 A	No Switch Incl.	101 gpm	—	15 ft	CI	CI	37 ft	—	—	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB75**
1	110 V AC	12 A	No Switch Incl.	80 gpm	18 in	20 ft	CI	TPL	50 ft	—	—	1 ½ in FNPT	¾ in	130 °F	Zoeller	**4NW01**
Piggyback																
¼	110 V AC	3.1 A	Tether Float	33 gpm	12 in	10 ft	CI	CI	21 ft	Variable†	Variable†	1 ½ in FNPT	½ in	104 °F	Dayton	**4HU67**
	110 V AC	5.8 A	Tether Float	43 gpm	—	10 ft	CI	CI	30 ft	Variable†	Variable†	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB68**
	110 V AC	5.8 A	Vertical Float	43 gpm	—	10 ft	CI	CI	30 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB70**
⅓	110 V AC	6.8 A	Diaphragm	57 gpm	—	15 ft	CI	CI	30 ft	14 ½ in	5 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB78**
	110 V AC	6.8 A	Tether Float	57 gpm	—	15 ft	CI	CI	30 ft	Variable†	Variable†	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB76**
	110 V AC	6.8 A	Vertical Float	57 gpm	—	15 ft	CI	CI	30 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB81**
	110 V AC	6.8 A	Tether Float	57 gpm	—	10 ft	CI	CI	30 ft	Variable†	Variable†	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB69**
	110 V AC	6.8 A	Vertical Float	57 gpm	—	10 ft	CI	CI	30 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB71**
½	110 V AC	9.8 A	Diaphragm	70 gpm	—	15 ft	CI	CI	32 ft	14 ½ in	5 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB79**
	110 V AC	9.8 A	Tether Float	70 gpm	—	15 ft	CI	CI	32 ft	Variable†	Variable†	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB77**
	110 V AC	9.8 A	Vertical Float	70 gpm	—	15 ft	CI	CI	32 ft	7 ¾ in	3 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB82**
¾	110 V AC	9.8 A	Vertical Float	70 gpm	—	10 ft	CI	CI	32 ft	7 ¾ in	3 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB72**
	110 V AC	10.5 A	Diaphragm	101 gpm	—	15 ft	CI	CI	37 ft	14 ½ in	5 in	1 ½ in FNPT	½ in	104 °F	Dayton	**3BB80**
1	110 V AC	12 A	Tether Float	80 gpm	18 in	20 ft	CI	TPL	50 ft	Variable†	Variable†	1 ½ in FNPT	¾ in	130 °F	Zoeller	**19T426**
Polypropylene Body																
Integral																
¼	110 V AC	2.3 A	Vertical Float	21 gpm	10 in	10 ft	PP	PA	21 ft	4 29⁄32 in	1 49⁄64 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU57**
⅓	110 V AC	2.5 A	Vertical Float	28 gpm	9 in	10 ft	PP	PA	26 ft	4 9⁄10 in	1 77/100 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU58**
½	110 V AC	5.1 A	Vertical Float	36 gpm	8 in	10 ft	PP	PA	35 ft	4 29⁄32 in	1 49⁄64 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU59**
No Switch Included																
⅓	110 V AC	3.3 A	No Switch Incl.	23 gpm	8 in	10 ft	PP	PA	22 ft	—	—	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU65**
Piggyback																
¼	110 V AC	2.6 A	Tether Float	11 gpm	12 in	10 ft	PP	PA	20 ft	11 ½ in	6 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU66**
	110 V AC	2.6 A	Vertical Float	11 gpm	10 in	10 ft	PP	PA	20 ft	8 in	3 ½ in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU69**
⅓	110 V AC	3 A	Vertical Float	23 gpm	10 in	10 ft	PP	PA	22 ft	8 in	3 ½ in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU70**
	110 V AC	3.3 A	Tether Float	23 gpm	12 in	10 ft	PP	PA	22 ft	11 ½ in	6 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU67**
½	110 V AC	3 A	Tether Float	31 gpm	12 in	10 ft	PP	PA	25 ft	11 ½ in	6 in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU68**
	110 V AC	3.3 A	Vertical Float	31 gpm	10 in	10 ft	PP	PA	25 ft	8 in	3 ½ in	1 ¼ in MNPT	⅛ in	104 °F	Dayton	**3YU71**

** BZ = bronze, CI = cast iron, EP = engineered polymer, N = nylon, PA = polyamide, PC = polycarbonate, PL = plastic, Pw/MI = plastic with metal insert, PP = polypropylene, SS = stainless steel , TPL = thermoplastic. † Variable is manually set by the length of the float cord and float.*

CONTINUED

CONTINUED

Submersible Sump Pumps

HP	Nominal Voltage	Amps	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Base Material*	Impeller Material*	Max. Head	On Point	Off Point	Discharge	Max. Dia. Solids	Max. Liquid Temp.	Brand	Item No.
Valox Body																
Integral																
¼	110 V AC	1 A	Sensor	—	—	24 ft	—	N	15 ft	—	—	1 ⅛ in ; ¾ in ; 1 in	—	104 °F	Rule	**3P994**
Stainless Steel Body																
½	110 V AC	—	Vertical Float	33 gpm	18 in	15 ft	CI	SS	10 ft	1 9/64 in	1 9/64 in	1 ½ in FNPT	1 ½ in	95 °F	Ez-Flo	**447P50**
Piggyback																
⅓	110 V AC	2.3 A	Vertical Float	23 gpm	12 in	10 ft	PP	PA	22 ft	6 13/64 in	2 9/16 in	1 ¼ in MNPT	¼ in	104 °F	Dayton	**3YU72**
	110 V AC	2.8 A	Tether Float	8 gpm	12 in	15 ft	SS	SS	16 ft	14 in	7 45/64 in	1 ¼ in MNPT	¾ in	104 °F	Dayton	**3YU74**
	110 V AC	4 A	Dual Micro Reed	50 gpm	8 in	13 ft	CI	PC	30 ft	—	—	1 ½ in FNPT	⅞ in	104 °F	Dayton	**1APP1**
½	110 V AC	2.9 A	Vertical Float	35 gpm	12 in	10 ft	PP	PA	25 ft	6 13/64 in	2 9/16 in	1 ¼ in MNPT	¼ in	104 °F	Dayton	**3YU73**
	110 V AC	4.1 A	Tether Float	25 gpm	12 in	15 ft	SS	SS	23 ft	15 in	8 5/16 in	1 ¼ in MNPT	¾ in	104 °F	Dayton	**3YU75**
	110 V AC	4.3 A	Dual Micro Reed	65 gpm	8 in	13 ft	CI	PC	33 ft	—	—	2 in FNPT	⅞ in	104 °F	Dayton	**1APP2**
¾	110 V AC	6.4 A	Tether Float	34 gpm	12 in	15 ft	SS	SS	26 ft	15 45/64 in	8 ½ in	1 ¼ in MNPT	¾ in	104 °F	Dayton	**3YU76**
Aluminum Body																
No Switch Included																
⅓	110 V AC	3.8 A	No Switch Incl.	46 gpm	8 in	13 ft	CI	EP	29 ft	—	—	1 ½ in FNPT	¼ in	104 °F	Dayton	**1XHV6**
½	110 V AC	4.8 A	No Switch Incl.	61 gpm	11 in	10 ft	CI	EP	32 ft	—	—	2 in FNPT	¼ in	104 °F	Dayton	**1XHV7**
Cast-Bronze Body																
Integral																
3/10	110 V AC	9.6 A	Vertical Float	34 gpm	18 in	9 ft	PP	Bronze	19 ft	7 ¼ in	3 in	1 ½ in FNPT	½ in	130 °F	Zoeller	**2P548**
4/10	110 V AC	10 A	Diaphragm	42 gpm	—	10 ft	PP	PP	23 ft	7 in to 10 in	1 in to 4 in	1 ½ in FNPT	⅛ in	140 °F	Little Giant	**3P641**

** BZ = bronze, CI = cast iron, EP = engineered polymer, N = nylon, PA = polyamide, PC = polycarbonate, PL = plastic, Pw/MI = plastic with metal insert, PP = polypropylene, SS = stainless steel , TPL = thermoplastic. † Variable is manually set by the length of the float cord and float.*

Pedestal Sump Pumps

- 110V AC nominal voltage
- Single phase
- Continuous-duty motors with TEFC enclosure, except 4KU60 to 4KU64 have PSC motors with ODP enclosure
- Stainless steel shaft, except 4KU64 is plastic

Pumps have a long rod with a float on the end to turn the switch on and off. Three prong/grounded power cord plug.

Note: A check valve is recommended, see page 2630, Additional float balls are available on page 2911. For replacement motors, see page 26.

Cast-Iron Body—Material efficiently disperses heat.

Cast-Bronze Body—Durable and corrosion resistant.

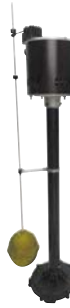
Stainless Steel Body—Offer good strength and corrosion resistance.

Plastic Body—ABS/ plastic is lightweight and won't corrode.

HP	Flow Rate @ 10 Ft. of Head	Basin Dia.	Cord Length	Impeller Material*	Min. Sump Pit Dia.	On Point	Off Point	Discharge	Max. Head	Max. Dia. Solids	Max. Liquid Temp.	Item No.
Cast-Iron Body												
⅓ hp	37.0 gpm	25 in	10 ft	SS	18 in	13 in-15 in	5 in	1¼ in FNPT	18 ft	⅜ in	140 °F	**4KU60**
	44.0 gpm	27 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URH7**
	44.0 gpm	38 ¾ in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URH8**
½ hp	48.0 gpm	25 in	10 ft	SS	18 in	13 in-15 in	5 in	1¼ in FNPT	22 ft	⅜ in	140 °F	**4KU61**
	72.0 gpm	33 in	8 ft	CI	18 in	11 in	4 in	2 in FNPT	20 ft	¾ in	200 °F	**5URJ5**
	72.0 gpm	45 in	8 ft	CI	18 in	11 in	4 in	2 in FNPT	20 ft	¾ in	200 °F	**5URJ6**
Stainless Steel Body												
⅓ hp	44.0 gpm	33 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URJ1**
	44.0 gpm	45 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URJ2**
½ hp	58.0 gpm	33 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	22 ft	7/16 in	200 °F	**5URJ3**
	58.0 gpm	45 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	22 ft	7/16 in	200 °F	**5URJ4**
	72.0 gpm	33 in	8 ft	SS	18 in	11 in	4 in	2 in FNPT	20 ft	¾ in	200 °F	**5URJ7**
Cast-Bronze Body												
⅓ hp	37.0 gpm	25 in	10 ft	SS	18 in	13 in-15 in	5 in	1¼ in FNPT	18 ft	⅜ in	140 °F	**4KU62**
	44.0 gpm	27 in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URH9**
	44.0 gpm	38 ¾ in	8 ft	SS	18 in	11 in	4 in	1¼ in FNPT	20 ft	7/16 in	200 °F	**5URJ0**
½ hp	48.0 gpm	25 in	10 ft	SS	18 in	13 in-15 in	5 in	1¼ in FNPT	22 ft	⅜ in	140 °F	**4KU63**
Plastic Body												
⅓ hp	37.0 gpm	25 in	10 ft	ABS	18 in	13 in-15 in	5 in	1¼ in FNPT	18 ft	⅜ in	120 °F	**4KU64**

Item	Float Dia.	Material of Construc.	Item No.
Float Balls and Float Switch			
Float Ball	4 in	Copper	**4KU66**
	4 in	Copper	**4KU67**
	4 in	Polyethylene	**4KU65**
	5 in	Stainless Steel	**2UV53**
Float Switch	—	—	**4KU68**

** ABS = acrylonitrile butadiene styrene, CI = cast iron, SS = stainless steel.*



Cast-Iron Body 4KU60

Float Ball 2UV53

Float Switch 4KU68

High-Temperature Sump Pumps

- 110 V AC nominal voltage

Use in boiler blow-down pits, plant washdown sump pits, underground transformer vaults, and industrial cleaning sump pits.

Notes: Basin material must be designed for the elevated temperatures anticipated. Continuous duty based on motor NEMA standards. For high-temperature check valves, see page 2655.

Liberty Pumps—HT40 Series feature epoxy powder coat finish and a high temperature float. HT450 Series feature oil-filled thermally protected motor, permanently lubricated bearings and a high temperature float.

Dayton—2-vane impeller and a PSC motor with upper and lower oil-lubricated ball bearings and Type 21 inboard mechanical seal. 15-ft. rope eases installation.

Little Giant—Epoxy-coated cast-iron housing, 416 stainless steel rotor shaft, and upper and lower ball bearings.

Zoeller—5CZG0 is rated for intermittent temp. up to 200°F, regular contact up to 180°F. Viton gaskets. 3-ft. flexible conduit to remove the switch assembly from the high-temp. operating level.

4CRE5

35LV01

HP	Max. Liquid Temp.	Switch Actuation	Body Dia.	H	Amps	Cord Length	Body Material*	Impeller Material*	Shaft Seal*	Discharge FNPT	Max. Dia. Solids	GPM of Water @ Total ft. of Head** 5	10	15	20	Max. Head	Brand	Mfr. Model	Item No.
Effluent Pumps, 115V AC																			
4/10	200 °F	No Switch Incl.	—	11 13/32"	12.00	10 ft.	CI	EP	CRB, CMC	1½"	¾"	59.0	51	31.0	—	20 ft	Liberty	HT41M	**443W22**
4/10	200 °F	No Switch Incl.	—	11 13/32"	12.00	25 ft.	CI	EP	CRB, CMC	1½"	¾"	59.0	51	31.0	—	20 ft	Liberty	HT41M-2	**443W21**
4/10	200 °F	Tether Float	—	11 13/32"	12.00	25 ft.	CI	EP	CRB, CMC	1½"	¾"	59.0	51	31.0	—	20 ft	Liberty	HT41A-2	**444A25**
4/10	200 °F	Tether Float	9 13/16"	9⅝"	12.00	10 ft.	CI	EP	CRB, CMC, NR, SS	1½"	¾"	59.0	50	32.0	—	20 ft	Liberty	HT41A	**5YE81**
Sewage Pumps, 120V AC																			
4/10	200 °F	No Switch Incl.	10 27/32"	15½"	9.50	15 ft.	CI	CI	SiC, Viton	2"	2"	—	60	40	—	18 ft	Dayton	4CRE4	**4CRE4**
½	200 °F	No Switch Incl.	10 27/32"	15½"	10.50	15 ft.	CI	CI	SiC, Viton	2"	2"	—	100	80	35	24 ft	Dayton	4CRE5	**4CRE5**
Sump Pumps, 115V AC																			
⅓	200 °F	Tether Float	8 13/16"	10⅞"	10.10	8 ft.	CI	N	CRB, Ni-Resist	1½"	½"	50.0	42	27.0	—	20 ft	Little Giant	506600	**5EAF3**
⅓	200 °F	Tether Float	10 3/32"	10 1/16"	9.70	10 ft.	CI	CI	CRB, Ni-Resist	1½"	½"	39.0	31	17.0	—	18 ft	Zoeller	BN2057	**5CZG0**
½	180 °F	No Switch Incl.	—	12 13/32"	7.30	10 ft.	AL	EP	NR	1½"	⅜"	48.0	44	38.0	32.0	34 ft	Liberty	HT450	**444A24**
½	180 °F	Tether Float	9⅝"	12½"	—	10 ft.	AL	EP	NR	1½"	⅜"	50.0	43	39.0	32.0	34 ft	Liberty	HT453	**2WMN5**
½	200 °F	Sensor	6 49/64"	11 5/32"	8.00	9 ft.	CI	N	—	1½"	½"	75.0	65	60.0	40.0	30 ft	Little Giant	511710	**35LV01**
½	200 °F	Vertical Float	11"	13½"	9.40	15 ft.	CI	CI	Viton	1½"	½"	66.0	56	41.0	23.0	21 ft	Zoeller	M3098	**4P023**

** AL = aluminum, CI = cast-iron, CMC = ceramic, CRB = carbon, EP= engineered polymer, NR = nitrile rubber, N = nylon, SiC = silicon carbide.*

*** Pump performance based upon room temperature; as temperature increases, performance will vary.*

With Primary Pump
10V134

With Primary Pump
49DE64

Without Primary Pump
48ZJ81

Back-up and Primary Sump Pump Combinations

- 1½" discharge

Systems come with a battery-powered, back-up pump and often include a back-up pump and a primary pump all contained in one unit. For use in a basement sump pit and automatically sound an alarm and activate a back-up sump pump when the primary sump pump malfunctions or when the main electrical power supply fails. For indoor use only; battery sold separately.

Back-up with Primary Pump—Have a battery-powered, back-up pump and a primary pump all contained in one unit. Include a controller and battery case.

Back-up without Primary Pump—Include a back-up sump pump, controller, and battery case.

HP*	Switch Actuation	Flow Rate @ 10 Ft. of Head (gpm)*	Min. Sump Pit Dia.	Max. Head (ft.)*	Body Material*	Max. Liquid Temp.	Cord Length (ft.)*	Brand	Mfr. Model	Item No.
Back-up with Primary Pump										
3⁄10 (P); ⅓ (S)	Vertical Float	34.0 (P); 30.0 (S)	18 in	19.0 ft (P); 22.0 ft (S)	CI (P)	130 °F	9 ft	Zoeller	508-0010	**49DE63**
3⁄10 (P); ⅓ (S)	Vertical Float	34.0 (P); 30.0 (S)	18 in	19.0 ft (P); 22.0 ft (S)	CI (P); PL (S)	130 °F	9 ft	Zoeller	508-0018	**54XM27**
⅓ (P)	Vertical Float	30.0 (P); 16.0 (S)	15 in	21.0 ft (P); 24.0 ft (S)	A (P); ABS (S)	140 °F	10 ft(P); 8 ft(S)	Liberty Pumps	PC237-441	**10V134**
⅓ (P)	Vertical Float	36.0 (P); 30.0 (S)	15 in	23.0 ft (P); 21.0 ft (S)	CI (P); PL (S)	104 °F	10 ft(P); 8 ft(S)	Liberty Pumps	PC257-442-10A-EYE	**54TY48**
⅓ (S)	Vertical Float	30.0 (P); 30.0 (S)	18 in	22.0 ft (P)	CI (P); PL (S)	130 °F	—	Zoeller	508-0017	**54XM26**
⅓ (P); ¼ (S)	Dual Micro Reed	46.2 (P); 16.7 (S)	12 in	29.0 ft (P); 15.0 ft (S)	CA (P); ABS (S), CI	104 °F	10 ft	Pro Series	PS-C11	**4CUK4**
⅓ (P); ⅓ (S)	Dual Micro Reed	46.2 (P); 30.9 (S)	11 in	29.0 ft (P)	CA (P); ABS (S), CI	104 °F	10 ft	Pro Series	PS-C22	**4CUK3**
⅓ (P); ⅓ (S)	Dual Micro Reed	50.0 (P); 40.0 (S)	11 in	30.0 ft (P)	CI, SS (P); ABS (S)	104 °F	10 ft	Pro Series	PS-C33	**4CUK2**
½ (P)	Diaphragm	57.0 (P); 24.0 (S)	—	36.0 ft (P); 23.0 ft (S)	CI (P); PL (S)	120 °F	10 ft(P); 6 ft(S)	Little Giant	506410	**48ZJ80**
½ (P)	Vertical Float	44.0 (P); 16.0 (S)	15 in	34.0 ft (P); 24.0 ft (S)	A (P); ABS (S)	140 °F	10 ft(P); 8 ft(S)	Liberty Pumps	PC457-441	**10V135**
½ (P); ⅓ (S)	Vertical Float	61.0 (P); 30.0 (S)	18 in	23.0 ft (P); 22.0 ft (S)	CI (P)	130 °F	9 ft	Zoeller	508-0011	**49DE64**
½ (P); ⅓ (S)	Vertical Float	61.0 (P); 30.0 (S)	18 in	23.0 ft (P); 22.0 ft (S)	CI (P); PL (S)	130 °F	9 ft	Zoeller	508-0019	**54XM28**
Back-up without Primary Pump										
⅓ (P)	Diaphragm	20.0 (P)	10 in	20.0 ft (P); 20.0 ft (S)	Acetal (P)	120 °F	6 ft	Little Giant	506406	**48ZJ81**
⅓ (P)	Diaphragm	50.0 (P); 20.0 (S)	—	28.0 ft (P); 20.0 ft (S)	CI (P); PL (S)	120 °F	10 ft	Little Giant	506411	**48ZJ79**
½ (P)	Diaphragm	24.0 (P)	10 in	20.0 ft (P); 23.0 ft (S)	Acetal (P)	120 °F	6 ft	Little Giant	506407	**48ZJ82**

** (P) = primary pump, (S) = secondary pump. A = aluminum, CA = cast aluminum, CI = cast iron, PL = plastic, SS = stainless steel.*

4NE46

1APP3

Battery-Powered Back-up Sump Pumps

- Max. liquid temp.: 104°F, except 2RXT7 is 130°F

Provide additional hours of protection against flooding when the primary pump stops operating due to mechanical failure or an electrical power outage. They automatically start when the primary pump fails and don't require corded electrical power. Pumps are suitable for use in most sump pits and ideal for locations where electric power is unreliable. Battery is not included.

54JG89

HP	Switch Actuation	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Max. Head	Pump Body Material	Cord Length	Required Battery	Brand	Mfr. Model	Item No.
1¼ in FNPT Discharge										
¼ hp	Dual Micro Reed	16.6 gpm	12 in	15 ft	ABS	8 ft	—	PHCC Pro Series	PHCC-1000	**4NE46**
⅓ hp	Dual Micro Reed	30.8 gpm	12 in	16 ft	ABS	8 ft	—	PHCC Pro Series	PHCC-1850	**4NE45**
1½ in FNPT Discharge										
⅓ hp	Dual Micro Reed	40 gpm	12 in	17 ft	ABS	8 ft	—	PHCC Pro Series	PHCC-2400	**1APP3**
⅓ hp	Vertical Float	36 gpm	18 in	20 ft	Cast Iron	5 ft	2RXT8	Zoeller	585-0008	**2RXT7**
—	No Switch Included	30 gpm	16 in	22 ft	ABS	8 ft	(2) Group 27 or 31 Batteries	Liberty Pumps	442-25A-EYE	**54JG90**
—	No Switch Included	30 gpm	16 in	22 ft	ABS	8 ft	Group 27 or 31 Battery	Liberty Pumps	442-10A-EYE	**54JG89**

Sump Pump Batteries and Battery Acid

2RXT8

4NE47

5WG11

Batteries supply power to operate a backup pump during power outages or mechanical failures to prevent flooding or water damage.

Maintenance Free AGM—Sealed lead acid batteries don't require fluid levels to be checked and maintained, and are for use in installations where batteries won't be regularly monitored.

Wet Cell—Cost-effective power supply for applications where batteries will be regularly checked and maintained. They require filling with battery acid before installation. The acid will evaporate over time and needs to be replenished to ensure proper operation.

Battery Acid—Sulfuric acid solution must be added to new wet cell batteries prior to installation and is used to replenish acid in existing installations. The acid ships separately from a battery.

Voltage	Continuous Run Time Rating	Capacity	H	W	D	For Use With	Brand	Mfr. Model	Item No.
Maintenance Free AGM									
12V DC	6.5 to 11 hr	100 Ah	7.125 in	6.5 in	12 in	—	PHCC Pro Series	B12-100	**60NL75**
12V DC	7 hr	100 Ah	10 in	7.5 in	12.75 in	585-0008	Zoeller	10-2362	**2RXT8**
Wet Cell									
12V DC	6 hr	70 Ah	7.5 in	6.5 in	11 in	5WG11	PHCC Pro Series	B-1000	**4NE48**
12V DC	6.5 to 11 hr	140 Ah	8 in	6.75 in	12.75 in	5WG11	PHCC Pro Series	B-2200	**4NE47**

Container Size	For Use With	Brand	Item No.
Battery Acid			
6 qt	4NE47, 4NE48	PHCC Pro Series	**5WG11**

ZOELLER PUMP COMPANY · Liberty Pumps · SJE-Rhombus

Elevator Sump Pumps, Detection System, and Alarms

2WML9

2NRX1

Elevator Sump Pump with Oil Sensor—Pumps drain water from elevator sump pits and transformer vaults. They have an oil detector that identifies when oil is present. The pump operates when water is present and stops when oil is sensed. This prevents the pumping of oil into groundwater or sewage systems.

Oil Detection System and Alarms—Oil detection systems provide pump control and alarm notifications for potentially threatening water and oil levels in pumping applications. The oil switch senses oil and prevents it from being pumped into the environment. Pump not included.

HP	Switch Actuation	Switch Type	Flow Rate @ 10 Ft. of Head	Min. Sump Pit Dia.	Cord Length	Max. Liquid Temp.	Brand	Item No.
Elevator Sump Pump with Oil Sensor								
115V AC								
3/10	Sensor	Piggyback	34 gpm	18 in	15 ft.	130 °F	Zoeller	**5CZF7**
⅓	Sensor	Sensor	37 gpm	14 in	10 ft.	140 °F	Liberty Pumps	**2WML9**
4/10	Sensor	Piggyback	61 gpm	18 in	20 ft.	130 °F	Zoeller	**5CZF8**
½	Sensor	Sensor	55 gpm	14 in	10 ft.	140 °F	Liberty Pumps	**2WMN1**
230V AC								
½	Sensor	Sensor	55 gpm	14 in	10 ft.	140 °F	Liberty Pumps	**2WMN2**

Voltage	Alarm	Switch Type	Max. HP	Power Cord Length (ft.)	Sensor Cord Length (ft.)	Max. Temp. (°F)	Brand	Item No.
Oil Detection System and Pump Control								
120 V AC	Audio/Visual	—	—	10 ft	10 ft	130 °F	SJE-Rhombus	**36K473**
Oil Guard System and Alarm								
115 V	Audio 71 dB/Visual	Piggyback	¾ hp	8 ft	20 ft	130 °F	Zoeller	**2NRX1**
Oiltector(R) Pump Control and Alarm								
115 V	Audio/Visual	Piggyback	1 hp	—	—	130 °F	Liberty Pumps	**2WMN3**
230 V	Audio/Visual	Piggyback	2 hp	—	—	130 °F	Liberty Pumps	**2WMN4**

Dayton · GOULDS PUMPS · ZOELLER PUMP COMPANY · Little GIANT · BARNES

Effluent Pumps

Goulds 2NUZ4

Dayton 2JGA3

Barnes 24PK71

Dayton 3BB85

Little Giant 24WN40

Dayton 4HU78

Zoeller 2VJ61

Little Giant 2EHP4

Use to drain treated water from septic tanks and most can drain water containing small solids. Pumps have high heads (the height a pump can lift water before there is no more flow) and high pressure, compared to sewage ejector pumps, to efficiently push treated water out to a drain field.

Note: Float switches and control panels sold separately.

1-Phase—Compatible with most standard U.S. residential electrical wall outlets.

3-Phase—Feature three-phase pumps that are more efficient than one phase, and they use a higher voltage that allows for larger motors that require less current than lower-voltage motors. Require control panel, see page 2630.

High-Head Filtered—Feature permanent split capacitor (PSC) motors with stainless steel shafts and hardware, long-life mechanical seals, and ball bearings. Design helps prevent problems with lockup, abrasives, and running dry. For use in wastewater treatment, liquid transfer, dewatering, and flood control in commercial and industrial systems. 2EHP2 to 2EHP4 have a removable built-in check valve.

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head (ft.)	Max. Dia. Solids	Brand	Mfr. Model	Item No.
1-Phase																				
⅓	110	9.16	Tether Float	2" MNPT	16¾"	6½"	18"	20 ft	SS	SS	130 °F	68 gpm	43 gpm	—	—	28 ft	1½"	Dayton	4HDZ8	**4HDZ8**
⅓	110	10.7	No Switch Incl.	2" FNPT	16"	11½"	18"	20 ft	CI	CI	140 °F	65 gpm	33 gpm	—	—	29 ft	¾"	Goulds	WE0311M	**2NUZ6**
⅓	110	10.7	No Switch Incl.	2" FNPT	16"	11¾"	18"	20 ft	CI	CI	140 °F	70 gpm	27 gpm	—	—	26 ft	¾"	Goulds	WE0311L	**2NUZ4**
4/10	110	8.5	No Switch Incl.	1½" FNPT	12-1/8"	10-3/32"	18"	20 ft	CI	TPL	130 °F	61 gpm	44 gpm	—	—	38 ft	¾"	Zoeller	N152	**5CZG2**
4/10	110	11	Tether Float	2" MNPT	16¾"	6½"	18"	20 ft	SS	SS	130 °F	70 gpm	52 gpm	—	—	32 ft	1½"	Dayton	2JGA2	**2JGA2**
½	110	6.4	No Switch Incl.	2"	14-1/16"	9-5/8"	18"	20 ft	CI	CI	77 °F	45 gpm	37 gpm	10 gpm	—	45 ft	¾"	Dayton	4HU70	**4HU70**
½	110	9.4	No Switch Incl.	1½"	13"	9"	18"	20 ft	CI	CI	104 °F	78 gpm	52 gpm	—	—	31 ft	¾"	Dayton	4HU71	**4HU71**
½	110	9.4	Tether Float	1½"	13"	9-1/8"	18"	20 ft	CI	CI	104 °F	78 gpm	52 gpm	—	—	31 ft	¾"	Dayton	4HU73	**4HU73**
½	110	10.5	No Switch Incl.	1½" FNPT	12-1/8"	10-3/32"	18"	20 ft	CI	TPL	130 °F	70 gpm	52 gpm	11 gpm	—	44 ft	¾"	Zoeller	N153	**5CZG3**
½	110	11.4	No Switch Incl.	2"	17-5/16"	13-7/16"	18"	20 ft	CI	PP	104 °F	92 gpm	76 gpm	20 gpm	—	49 ft	¾"	Dayton	4LE10	**4LE10**
½	110	11.7	Tether Float	2" MNPT	16¾"	6½"	18"	20 ft	SS	SS	130 °F	85 gpm	64 gpm	—	—	36 ft	1½"	Dayton	2JGA3	**2JGA3**
½	110	11.9	No Switch Incl.	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	76 gpm	66 gpm	47 gpm	25 gpm	79 ft	¾"	Dayton	4HU75	**4HU75**
½	110	11.9	Tether Float	2"	16¾"	12¼"	18"	20 ft	CI	PP	104 °F	76 gpm	66 gpm	47 gpm	25 gpm	79 ft	¾"	Dayton	3BB83	**3BB83**
½	110	14.5	No Switch Incl.	2" FNPT	16"	11¾"	18"	20 ft	CI	CI	140 °F	58 gpm	50 gpm	30 gpm	2 gpm	61 ft	¾"	Goulds	WE0511HH	**2NVC1**
½	110	14.5	No Switch Incl.	2" FNPT	16"	11¾"	18"	20 ft	CI	CI	140 °F	78 gpm	60 gpm	10 gpm	—	46 ft	¾"	Goulds	WE0511H	**2NUZ8**
½	110	15	Tether Float	2" NPT	13¾"	12¼"	18"	20 ft	CI	CI	120 °F	115 gpm	98 gpm	57 gpm	—	63 ft	¾"	Little Giant	620219	**5EAF4**
½	110	15.5	No Switch Incl.	1½" FNPT	19-5/16"	12¾"	24"	20 ft	CI	BZ	130 °F	93 gpm	78 gpm	45 gpm	—	56 ft	¾"	Zoeller	N161	**4NW04**
½	110	15.5	Vertical Float	1½" FNPT	19-5/16"	12¾"	24"	20 ft	CI	BZ	130 °F	93 gpm	79 gpm	45 gpm	—	56 ft	¾"	Zoeller	M161	**6JGW7**
½	220	4.3	Tether Float	1½"	13"	9-1/8"	18"	20 ft	CI	CI	104 °F	78 gpm	52 gpm	—	—	31 ft	¾"	Dayton	4HU74	**4HU74**
½	220	4.7	No Switch Incl.	1½" FNPT	12"	10-1/8"	18"	15 ft	CI	TPL	130 °F	61 gpm	25 gpm	—	—	23 ft	½"	Zoeller	E98	**4NW39**
½	220	5.1	No Switch Incl.	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	76 gpm	66 gpm	47 gpm	25 gpm	79 ft	¾"	Dayton	4HU76	**4HU76**
½	220	5.1	No Switch Incl.	2" FNPT	18-20/69"	12-4/25"		20 ft	CI	PP, SS	104 °F	75 gpm	67 gpm	48 gpm	25 gpm	70 ft	¾"	Barnes	STEP522DS	**24PK71**
¾	220	10	No Switch Incl.	2" FNPT	16"	11¾"	18"	20 ft	CI	CI	140 °F	93 gpm	83 gpm	45 gpm	10 gpm	67 ft	¾"	Goulds	WE0712H	**2NVC3**
1	208, 220	13.3	Tether Float	2" NPT	13¾"	12¼"	18"	20 ft	CI	CI	120 °F	115 gpm	140 gpm	115 gpm	76 gpm	90 ft	¾"	Little Giant	620223	**5EAF5**
1	220	8.3	No Switch Incl.	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	85 gpm	80 gpm	68 gpm	52 gpm	109 ft	¾"	Dayton	4HU77	**4HU77**
1	220	8.3	No Switch Incl.	2" FNPT	18-20/69"	12-4/25"		20 ft	CI	PP, SS	104 °F	84 gpm	80 gpm	48 gpm	52 gpm	100 ft	¾"	Barnes	STEP1022DS	**24PK72**
1	220	8.3	Tether Float	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	85 gpm	80 gpm	68 gpm	52 gpm	109 ft	¾"	Dayton	3BB85	**3BB85**
1	220	9	No Switch Incl.	2" FNPT	16-5/32"	9-57/64"	18"	20 ft	CI	CI	140 °F	—	—	70 gpm	30 gpm	81 ft	¾"	Little Giant	514520	**24WN40**
1	220	10.2	Vertical Float	1½" FNPT	19-5/16"	12¾"	24"	20 ft	CI	BZ	130 °F	61 gpm	60 gpm	55 gpm	39 gpm	86 ft	¾"	Zoeller	D165	**6JGW8**
1½	220	14	No Switch Incl.	1½" FNPT	19-5/16"	12¾"	24"	20 ft	CI	BZ	130 °F	140 gpm	128 gpm	103 gpm	71 gpm	91 ft	¾"	Zoeller	E188	**2VJ62**
1½	220	15.7	No Switch Incl.	2" FNPT	16"	11¾"	18"	20 ft	CI	CI	140 °F	94 gpm	90 gpm	77 gpm	63 gpm	128 ft	¾"	Goulds	WE1512HH	**2NVC5**
2	220	10.9	No Switch Incl.	2"	17-5/16"	13-7/16"	18"	20 ft	CI	PP	104 °F	—	—	100 gpm	62 gpm	86 ft	¾"	Dayton	4LE14	**4LE14**
2	220	14.5	No Switch Incl.	1½" FNPT	19-5/16"	12¾"	24"	20 ft	CI	BZ	130 °F	45 gpm	45 gpm	45 gpm	45 gpm	137 ft	5/8"	Zoeller	E191	**4NW20**
3-Phase																				
1	220	5.6	No Switch Incl.	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	85 gpm	80 gpm	68 gpm	52 gpm	109 ft	¾"	Dayton	3BB86	**3BB86**
1	480	2.8	No Switch Incl.	2"	16¾"	12-3/16"	18"	20 ft	CI	PP	104 °F	85 gpm	80 gpm	68 gpm	52 gpm	109 ft	¾"	Dayton	4HU78	**4HU78**
1½	220	8.9	No Switch Incl.	1½" FNPT	18½"	12¾"	24"	20 ft	CI	BZ	130 °F	140 gpm	128 gpm	103 gpm	71 gpm	91 ft	¾"	Zoeller	F188	**2VJ65**
1½	480	4.6	No Switch Incl.	1½" FNPT	18½"	12¾"	24"	20 ft	CI	BZ	130 °F	140 gpm	128 gpm	103 gpm	71 gpm	91 ft	¾"	Zoeller	G188	**2VJ61**
2	480	6	No Switch Incl.	1½" FNPT	18-9/16"	12¾"	24"	20 ft	CI	BZ	130 °F	140 gpm	130 gpm	109 gpm	85 gpm	110 ft	¾"	Zoeller	G189	**4NW19**
2	480	7.00/3.50	No Switch Incl.	2"	17-5/16"	13-7/16"	18"	20 ft	CI	PP	104 °F	—	—	100 gpm	62 gpm	86 ft	¾"	Dayton	4LE13	**4LE13**

HP	Nominal Voltage	Amps	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 60	80	100	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
High-Head Filtered Efluent Pumps																			
1-Phase																			
½	110V AC	11	No Switch Incl.	1¼" FNPT	22½"	4"	4"	10 ft	SS	A	86 °F	14 gpm	13 gpm	11.5	230 ft	1/16 in	Dayton	4NY25	**4NY25**
½	110V AC	10	No Switch Incl.	1¼" FNPT	31"	4"	—	10 ft	SS	C	104 °F	14 gpm	13 gpm	13 gpm	250 ft	Clear Water	Little Giant	558910	**2EHP2**
½	110V AC	10	No Switch Incl.	1¼" FNPT	31"	4"	—	10 ft	SS	C	104 °F	22 gpm	18 gpm	20 gpm	160 ft	Clear Water	Little Giant	558911	**2EHP3**
½	110V AC	10	No Switch Incl.	1¼" FNPT	31"	4"	—	10 ft	SS	C	104 °F	28 gpm	23 gpm	14 gpm	115 ft	Clear Water	Little Giant	558912	**2EHP4**

** A = acetal, BZ = bronze, C = Celcon®, CI = cast iron, PP = polypropylene, SS = stainless steel, TPL = thermoplastic.*

Sewage Ejector Pumps

General purpose pumps remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. They have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. These sewage pump systems mount in a basin where waste collects from a drain pipe and they're turned on and off by an attached switch or control panel. The wastewater is then pumped out of the basin and up to the main sewer or septic line. The **1-phase** pumps are compatible with most standard U.S. residential electrical wall outlets. **3-phase** pumps are more energy efficient than one-phase models. 3-phase models require control panel, see page 2630.

Note: Operating pump outside of specified range may result in pump damage and/or shortened pump life.

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase																				
	110	9.40	No Switch Incl.	2" FNPT	14¾"	4⅞"	18"	15 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	N264	**4NW07**
	110	9.40	Vertical Float	2" FNPT	14¾"	11 23/64"	18"	10 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	M264	**4NW06**
	110	11.00	Tether Float	2" MNPT	17¾"	9¼"	18"	20 ft	SS	SS	130 °F	75	47	—	—	25	2"	Dayton	2JGA4	**2JGA4**
4/10	110	12.00	No Switch Incl.	2" NPT	16¾"	10¾"	—	20 ft	CI	CI	104 °F	95	37	—	—	25	2"	Dayton	4HU79	**4HU79**
	110	12.00	Tether Float	2" NPT	16¾"	10¾"	—	20 ft	CI	CI	77 °F	95	37	—	—	25	2"	Dayton	3BB87	**3BB87**
	110	12.00	Vertical Float	2" NPT	16¾"	16 23/32"	—	20 ft	CI	CI	77 °F	95	37	—	—	25	2"	Dayton	4LE12	**4LE12**
	220	4.70	No Switch Incl.	2" FNPT	14¾"	13⅛"	18"	15 ft	CI	TPL	130 °F	60	—	—	—	18	2"	Zoeller	E264	**4NW08**
	110	5.80	No Switch Incl.	2" FNPT	14 3/16"	9 5/16"	8"	32 ft	T	GFRP	104 °F	72	52	6	—	43	25/64"	Tsurumi	50TM2.4S	**20LR14**
	110	5.80	Tether Float	2" FNPT	14¾"	9 5/16"	8"	32 ft	T	GFRP	104 °F	72	52	6	—	43	25/64"	Tsurumi	50TMA2.4S	**20LR15**
	110	10.30	No Switch Incl.	3" FNPT	21 1/16"	13 9/16"	24"	15 ft	CI	CI	104 °F	96	34	—	—	26	2"	Zoeller	N282	**4NW30**
	110	10.30	Vertical Float	3" FNPT	19 9/16	13 9/16"	18"	10 ft	CI	CI	140 °F	96	34	—	—	26	2"	Zoeller	M282	**2P553**
	110	10.40	No Switch Incl.	2" FNPT	14 9/32"	13 1/16"	18"	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	N267	**4NW10**
	110	10.40	Vertical Float	2" FNPT	14 9/32"	13 1/16"	18"	10 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	M267	**2P552**
	110	12.00	No Switch Incl.	2" NPT	16¾"	10¾"	—	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	4HU80	**4HU80**
	110	12.00	Tether Float	2" NPT	15 3/16"	10¾"	—	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	3BB88	**3BB88**
½	110	12.30	Tether Float	2" MNPT	17¾"	9¼"	18"	20 ft	SS	SS	130 °F	80	55	—	—	32	2"	Dayton	2JGA5	**2JGA5**
	110	14.50	No Switch Incl.	2" FNPT	19"	12½"	—	20 ft	CI	CI	104°F (Continuous), 140°F (Intermittent)	110	62	—	—	29	2"	Goulds	WS0511BHF	**4NE74**
	110	14.50	No Switch Incl.	2" FNPT	19"	12½"	—	20 ft	CI	CI	104°F (Continuous), 140°F (Intermittent)	122	50	—	—	19	2"	Goulds	WS0511BF	**5NXT7**
	110	15.00	No Switch Incl.	2" FNPT	21 3/16"	12⅞"	24"	20 ft	CI	CI	130 °F	120	87	10	—	43 ft	2"	Zoeller	N292	**4NW21**
	110	15.00	Vertical Float	2" FNPT	19 5/16"	12⅞"	18"	20 ft	CI	CI	140 °F	120	87	10	—	40	2"	Zoeller	M292	**2P555** †
	220	6.20	No Switch Incl.	2" NPT	16¾"	10¾"	—	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	4HU81	**4HU81**
	220	6.20	Tether Float	2" NPT	15 3/16"	10¾"	—	20 ft	CI	CI	104 °F	111	43	—	—	25	2"	Dayton	3BB89	**3BB89**
	110	15.00	No Switch Incl.	2" FNPT	15"	13 1/16"	18"	20 ft	CI	TPL	130 °F	101	56	—	—	29	2"	Zoeller	N270	**4NW14**
	220	8.30	No Switch Incl.	2" NPT	21¼"	16 23/32"	—	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LE20	**4LE20**
	220	8.30	Vertical Float	2" NPT	21¼"	16¾"	—	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LB99	**4LB99**
	220	8.90	No Switch Incl.	3" FNPT	21 1/16"	13 9/16"	24"	15 ft	CI	CI	104 °F	157	106	—	—	35	2"	Zoeller	E284	**4NW31**
	220	8.90	Vertical Float	2" FNPT	19 9/16	13 9/16"	18"	10 ft	CI	CI	104 °F	157	106	—	—	35	2"	Zoeller	D284	**5CZG6**
1	220	8.90	Vertical Float	3" FNPT	19 9/16	13 9/16"	18"	10 ft	CI	CI	140 °F	157	106	—	—	35	2"	Zoeller	D284	**2P554**
	220	9.20	No Switch Incl.	2" MNPT	17¾"	9¼"	18"	20 ft	SS	SS	130 °F	126	96	—	—	40	2"	Dayton	2JGA6	**2JGA6**
	220	10.20	Vertical Float	2" FNPT	19 5/16"	12⅞"	24"	20 ft	CI	CI	104 °F	—	111	51	—	51	2"	Zoeller	D293	**4P020**
	220	10.70	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	4HU83	**4HU83**
	220	10.70	Tether Float	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	3BB90	**3BB90**
	220	11.00	No Switch Incl.	3" FNPT	17 1/5"	14 1/10"	—	20 ft	CI	CI	140 °F	160	100	—	—	35	2"	Little Giant	514620	**2EHN5**
	220	13.50	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU85	**4HU85**
	220	13.50	Tether Float	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU86	**4HU86**
1½	220	15.50	No Switch Incl.	3" FNPT	19 3/43"	12 15/16"	—	20 ft	CI	CI	140 °F	160	137	84	15	64	2"	Little Giant	520301	**2EHN7**
	220	16.00	No Switch Incl.	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	104 °F	335	240	—	—	39	2½"	Dayton	4LE16	**4LE16**
	220	16.00	Tether Float	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	77 °F	335	240	—	—	39	2½"	Dayton	4LE22	**4LE22**
	220	12.90	No Switch Incl.	4" Flanged	26"	16⅛"	36"	20 ft	CI	CI	140 °F	265	184	—	—	33	3"	Zoeller	E404	**6JGV9**
	220	15.00	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	130 °F	—	165	120	66	74	2"	Dayton	4HU88	**4HU88**
	220	15.00	Tether Float	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	165	120	66	74	2"	Dayton	3BB91	**3BB91**
2	220	16.60	No Switch Incl.	2" FNPT	21 3/16"	12⅞"	24"	20 ft	CI	CI	130 °F	199	173	124	66	75	2"	Zoeller	E295	**4NW26**
	220	17.10	Tether Float	2" FNPT	19 5/16"	12⅞"	24"	20 ft	CI	CI	104 °F	199	173	124	66	75	2"	Zoeller	WD295	**4TR67**
	220	18.00	No Switch Incl.	3" FNPT	19 3/43"	12 15/16"	—	20 ft	CI	CI	140 °F	205	168	120	58	77	2"	Little Giant	520100	**2EHN9**
	220	19.00	No Switch Incl.	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE17	**4LE17**
	220	19.00	Tether Float	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE23	**4LE23**
3	220	19.00	No Switch Incl.	4" Flanged	26"	16⅛"	36"	20 ft	CI	CI	140 °F	326	241	—	—	38	3"	Zoeller	E405	**6JGW1**
3-Phase																				
	208	3.60	No Switch Incl.	2" FNPT	19 9/16"	13 9/16"	18"	15 ft	CI	CI	130 °F	96	34	—	—	26	2"	Zoeller	282-0006	**53TZ18**
½	220	2.60	No Switch Incl.	2" FNPT	14 9/32"	13 1/16"	18"	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	F267	**4NW12**
	480	1.50	No Switch Incl.	2" FNPT	14 9/32"	13 1/16"	18"	15 ft	CI	TPL	130 °F	85	10	—	—	21.5	2"	Zoeller	G267	**4NW13**
	220	4.90	No Switch Incl.	2" NPT	21¼"	16 23/32"	—	20 ft	CI	CI	130 °F	195	130	—	—	36	2"	Dayton	4LE21	**4LE21**
	220	6.30	No Switch Incl.	3" FNPT	17 1/5"	14 1/10"	—	20 ft	CI	CI	140 °F	160	100	—	—	35	2"	Little Giant	514720	**2EHN6**
1	220	7.50	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	3BB93	**3BB93**
	480	2.40	No Switch Incl.	2" NPT	21¼"	16 23/32"	—	20 ft	CI	CI	104 °F	195	130	—	—	36	2"	Dayton	4LE15	**4LE15**
	480	2.60	No Switch Incl.	2" MNPT	17¾"	9¼"	18"	20 ft	SS	SS	130 °F	112	86	22	—	46	2"	Dayton	2JGA7	**2JGA7**
	480	3.70	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	135	70	—	52	2"	Dayton	4HU84	**4HU84**
1½	480	4.90	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	140 °F	—	145	95	36	66	2"	Dayton	4HU87	**4HU87**
	220	12.00	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	165	120	66	75	2"	Dayton	3BB95	**3BB95**
	220	12.60	No Switch Incl.	3" FNPT	19 3/43"	12 15/16"	—	20 ft	CI	CI	140 °F	205	168	120	58	77	2"	Little Giant	520150	**2EHP1**
	220	15.20/13.20	No Switch Incl.	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE18	**4LE18**
2	480	5.20	No Switch Incl.	4" Flanged	26"	16⅛"	36"	20 ft	CI	CI	140 °F	265	184	—	—	33	3"	Zoeller	G404	**6JGW0**
	480	6.00	No Switch Incl.	2" NPT	19 1/16"	12⅝"	—	20 ft	CI	CI	104 °F	—	165	120	66	75	2"	Dayton	4HU89	**4HU89**
	480	6.10	No Switch Incl.	2" FNPT	21 3/16"	12⅞"	24"	20 ft	CI	CI	130 °F	199	173	124	66	75	2"	Zoeller	G295	**4NW28**
	480	6.60	No Switch Incl.	3" NPT	21¼"	16 23/32"	—	25 ft	CI	CI	104 °F	375	290	85	—	46	2½"	Dayton	4LE19	**4LE19**
3	240 to 480	12.90/6.10	No Switch Incl.	3" NPT	26½"	17"	—	20 ft	CI	CI	104 °F	—	300	115	—	52	2½"	Dayton	3BB96	**3BB96**
	480	6.10	No Switch Incl.	4" Flanged	26"	16⅛"	36"	20 ft	CI	CI	140 °F	326	241	—	—	38	3"	Zoeller	G405	**6JGW2**
5	480	11.80	No Switch Incl.	3" FNPT	26¼"	16¾"	18"	20 ft	CI	CI	104 °F	505	450	295	60	64	2½"	Dayton	5RZP1	**5RZP1**

** CI = cast iron, GFRP = glass fibre reinforced plastic, SS = stainless steel, T = titanium, TPL = thermoplastic. † NEMA 5-20 plug type.*

Intrinsically-Safe Sewage Ejector Pumps

4HEX6

- Max. liquid temp.: 104°F
- 20-ft. power cord

These pumps remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. These pumps have a nonsparking motor that allows them to operate in hazardous areas where gases and vapors could exist under normal operating conditions. Models have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. Carbon/ceramic shaft seal. For use in sump pits with a minimum 24" dia. FM Approved.

HP	Discharge	Max. Head	Max. Dia. Solids	Body Material*	Impeller Material*	Base Material*	Dia.	Rated Voltage	Amps	Flow Rate @ Ft. of Head 10	Flow Rate @ Ft. of Head 20	Mfr. Model	Item No.
½	1 ½ in FNPT	56 ft	¾ in	CI	BZ	CI	13 5/16"	115V AC	15.50	93 gpm	79 gpm	MX161	**4HEX6**
½	2 in FNPT	40 ft	2 in	CI	CI	CI	13 5/16"	115V AC	15.00	120 gpm	87 gpm	MX292	**4HEX8**
1	2 in FNPT	35 ft	2 in	CI	CI	CI	13 5/16"	230V AC	8.90	157 gpm	106 gpm	DX284	**4HEX7**
2	2 in FNPT	75 ft	2 in	CI	CI	CI	13 5/16"	230V AC	17.10	199 gpm	173 gpm	DX295	**4HEX9**

** BZ = bronze, CI = cast iron.*

Sewage Ejector Pump Systems

Libery Pumps 5YU17

Zoeller 2MNE5

Little Giant 44ZH85

Zoeller 6JGW4

- 1-phase
- Max. dia. solids: 2"
- Pump discharge: 2" dia.
- Vent size: 2"

Remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. Pumps have no screen on the bottom of the pump and a large outlet at the top to allow debris to flow through freely. They are mounted in a basin where waste collects from a drain pipe and are turned on and off by an attached switch or control panel. The wastewater is then pumped out of the basin and up to the main sewer or septic line.

Indoor Alarm—Feature an alarm that turns on when the water rises to a preset level in the sump basin. The alarm alerts that the pump has malfunctioned or is not able to keep up with the water flow. Compatible with most standard U.S. residential electrical wall outlets.

Without Alarm—Compatible with most standard U.S. residential electrical wall outlets.

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Basin H	Basin Dia.	Basin Cap.	Basin Material*	Pump Body Material*	Max. Liquid Temp.	Cord Length	Alarm Included	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head	Brand	Mfr. Model	Item No.
4/10	110	12	Tether Float	24 in	24 in	41 gal	PE	PE	140 °F	10 ft	No	122 gpm	99 gpm	65 gpm	9 gpm	21 ft	Liberty Pumps	P382LE41	**2WMP2**
	110	12	Tether Float	24 in	24 in	41 gal	PE	PE	140 °F	10 ft	Yes	122 gpm	99 gpm	65 gpm	9 gpm	21 ft	Liberty Pumps	P382LE41/A2	**5YU17**
	110	12	Tether Float	30 in	21 in	41 gal	PE	PE	140 °F	10 ft	Yes	122 gpm	99 gpm	65 gpm	9 gpm	21 ft	Liberty Pumps	P372LE41/A2	**5YU14**
	110	5.5	Vertical Float	30 in	18 in	33 gal	PE	PE	110 °F	15 ft	No	82 gpm	53 gpm	32 gpm	—	19 ft	Zoeller	912-0121	**2MNE3**
	110	8.5	Tether Float	26 35/64 in	24 in	41 gal	—	PE	120 °F	20 ft	No	110 gpm	70 gpm	30 gpm	—	20 ft	Little Giant	509673	**44ZH85**
	110	9.4	Vertical Float	30 in	18 in	33 gal	PE	CI	130 °F	15 ft	No	90 gpm	60 gpm	23 gpm	—	18 ft	Zoeller	910-0033	**2MNE1**
	220	4.7	Vertical Float	30 in	18 in	33 gal	PE	CI	130 °F	15 ft	No	90 gpm	60 gpm	23 gpm	—	18 ft	Zoeller	910-0034	**2MNE5**
½	110	10.4	Tether Float	24 in	24 in	41 gal	PE	CI	130 °F	10 ft	Yes	128 gpm	53 gpm	32 gpm	10 gpm	21 ft	Zoeller	912-1117	**6JGW6**
	110	10.4	Vertical Float	25 ⅝ in	24 in	41 gal	PE	CI	130 °F	10 ft	Yes	128 gpm	53 gpm	32 gpm	10 gpm	21 ft	Zoeller	912-1116	**6JGW4**
	110	12	Tether Float	24 in	24 in	41 gal	PE	PE	140 °F	10 ft	No	140 gpm	118 gpm	92 gpm	55 gpm	24 ft	Liberty Pumps	P382LE51	**2WMP3**
	110	12	Tether Float	24 in	24 in	41 gal	PE	PE	140 °F	10 ft	Yes	140 gpm	118 gpm	92 gpm	55 gpm	24 ft	Liberty Pumps	P382LE51/A2	**5YU18**
	110	12	Tether Float	30 in	21 in	41 gal	PE	PE	140 °F	10 ft	Yes	140 gpm	118 gpm	92 gpm	55 gpm	24 ft	Liberty Pumps	P372LE51/A2	**5YU15**
	208, 220	6.8	Tether Float	24 in	24 in	41 gal	PE	PE	140 °F	10 ft	Yes	140 gpm	118 gpm	92 gpm	55 gpm	24 ft	Liberty Pumps	P382LE52/A2	**5YU19**
	208, 220	6.8	Tether Float	30 in	21 in	41 gal	PE	PE	140 °F	10 ft	Yes	140 gpm	118 gpm	92 gpm	55 gpm	24 ft	Liberty Pumps	P372LE52/A2	**5YU16**

** CI = cast iron, PE = polyethylene.*

Sewage Grinder Pumps

Zoeller 49DE59

Liberty Pumps 21TN69

Dayton 11A341

Zoeller 4HEW7

Liberty Pumps 1XGC6

Dayton 3BB98

General purpose pumps feature a grinding plate on the bottom that shreds large particles into small fragments so the pump inlet won't clog and the waste can be pumped into a sewage system. These models, also known as grinder pumps, are not for use with septic systems since the small particles will not be filtered out in the septic system's drain field and will contaminate the groundwater. Zoeller pumps are auto-reversing and require control panels. 4HEW7 requires control panel 4DMG5.

4HEW8, 6JGW9 and 19T428 require control panel 4DMG6. For control panels, including duplex control panels, see page 2630.

1-Phase—Compatible with most standard U.S. residential electrical wall outlets.

3-Phase—These motors are more efficient than 1-phase. Motors use a higher voltage that allows for larger motors that require less current than lower-voltage motors. Require control panel, see page 2630.

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head	Max. Diameter Solids	Brand	Mfr. Model	Item No.
1-Phase																				
½	110	7.0	Vertical Float	1 ¼ in FNPT	17¼"	11 11/32"	18"	15 ft	CI	EP	130 °F	31	22	—	—	35.0 ft	10 29/32 in	Zoeller	803-0013	**49DE59**
	220	3.0	Vertical Float	1 ¼ in FNPT	17¼"	11 11/32"	18"	15 ft	CI	EP	130 °F	31	22	—	—	35.0 ft	10 29/32 in	Zoeller	803-0014	**49DE60**
1	110	11.0	Vertical Float	1 ¼ in FNPT	17¼"	11 11/32"	18"	15 ft	CI	EP	130 °F	42	35	18	—	55.0 ft	10 29/32 in	Zoeller	807-0012	**49DE61**
	110	12	Tether Float	2 in FNPT	17¾"	11"	24"	10 ft	CI	CI	140 °F	42	36	15	—	50.0 ft	2 in	Liberty Pumps	PRG101A	**21TN69**
	220	5.0	Vertical Float	1 ¼ in FNPT	17¼"	11 11/32"	18"	15 ft	CI	EP	130 °F	42	35	18	—	55.0 ft	10 29/32 in	Zoeller	807-0013	**49DE62**
	220	6	Tether Float	2 in FNPT	17¾"	11"	24"	10 ft	CI	CI	140 °F	42	36	15	—	50.0 ft	2 in	Liberty Pumps	PRG102A	**21TN71**
1 ½	220	9	No Switch Incl.	1 ¼ in FNPT	20 15/32"	6.8"	24"	16 ft	SS	DI	104 °F	26	25	20	15	98.0 ft	⅛ in	Dayton	11A344	**11A344**
	220	9	No Switch Incl.	1 ¼ in FNPT	20 15/32"	7.8"	24"	20 ft	SS	DI	104 °F	46	44	28	—	65.0 ft	⅛ in	Dayton	11A341	**11A341**
2	208, 220	15	No Switch Incl.	1 ¼ in FNPT	19½"	9"	24"	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG202M	**10V104**
	208, 220	15	No Switch Incl.	1 ¼ in FNPT	19½"	9½"	24"	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX202M	**2WMN8**
	208, 220	15	Tether Float	1 ¼ in FNPT	19½"	—	24"	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG202A	**5YU10**
	220	11	No Switch Incl.	1 ¼ in FNPT	21¼"	7.6"	24"	16 ft	SS	DI	104 °F	42	40	38	25	98.0 ft	⅛ in	Dayton	11A345	**11A345**
	220	11	No Switch Incl.	1 ¼ in FNPT	21¼"	7.8"	24"	16 ft	SS	DI	104 °F	47	46	38	20	82.0 ft	⅛ in	Dayton	11A342	**11A342**
	220	13.7	Tether Float	1 ¼ in FNPT	18⅝""	11⅝"	24"	20 ft	CI	EP	130 °F	46	46	46	43	107.0 ft	—	Zoeller	820-0011	**4HEW5**
	220	14	No Switch Incl.	1 ¼ in FNPT	18⅝""	11⅝"	24"	20 ft	CI	EP	130 °F	46	46	46	43	107.0 ft	—	Zoeller	820-0004	**6JGX0**
	220	15	Tether Float	1 ¼ in FNPT	21"	8 13/16"	16"	20 ft	CI	CI	77 °F	—	57	57	54	100.0 ft	—	Dayton	3BB97	**3BB97**
	220	17.2	No Switch Incl.	1 ¼ in FNPT	23¾"	11 21/32"	24"	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	E840	**4HEW7**
3	220	23.1	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T645	**12T645**
5	220	35.2	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T648	**12T648**

** CI = cast iron, DI = ductile iron, EP = engineered polymer, SS = stainless steel.*

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CONTINUED

Sewage Grinder Pumps

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Discharge	H	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 10	20	40	60	Max. Head	Max. Diameter Solids	Brand	Mfr. Model	Item No.
3-Phase																				
2	208	12.3	No Switch Incl.	1 ¼ in FNPT	23¾"	11²¹⁄₃₂"	24"	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	J840	**4HEW8**
2	208, 220	10.6	No Switch Incl.	1 ¼ in FNPT	19½"	9½"	24"	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX203M	**2WMN9**
2	208, 220	10.6	No Switch Incl.	1 ¼ in FNPT	19½"	9½"	24"	25 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG203M	**1XGC6**
2	220	10.8	No Switch Incl.	1 ¼ in FNPT	23¾"	11²¹⁄₃₂"	24"	20 ft	CI	DI	104 °F	45	45	42	30	104.0 ft	—	Zoeller	840-0006	**19T428**
2	480	4	No Switch Incl.	1 ¼ in FNPT	21"	8¹³⁄₁₆"	16"	20 ft	CI	CI	77 °F	—	57	57	54	100.0 ft	3 in	Dayton	3BB98	**3BB98**
2	480	5.3	No Switch Incl.	1 ¼ in FNPT	19½"	—	24"	10 ft	CI	SS	140 °F	50	50	48	42	108.0 ft	2 in	Liberty Pumps	LSG204M	**1XGC7**
2	480	5.3	No Switch Incl.	1 ¼ in FNPT	19½"	9½"	24"	25 ft	CI	SS	140 °F	39	39	39	39	185.0 ft	2 in	Liberty Pumps	LSGX204M	**2WMP1**
2	480	5.5	No Switch Incl.	1 ¼ in FNPT	24⁷⁄₃₂"	11²¹⁄₃₂"	24"	20 ft	CI	DI	130 °F	45	45	42	30	104.0 ft	—	Zoeller	840-0008	**6JGW9**
3	220	9	No Switch Incl.	1 ¼ in FNPT	21¼"	7.8"	24"	16 ft	SS	DI	104 °F	57	54	49	38	91.0 ft	⅛ in	Dayton	11A343	**11A343**
3	220	14.3	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T646	**12T646**
3	480	7.15	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	93	89	65	30	72.0 ft	½ in	Dayton	12T647	**12T647**
5	220	20.68	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T649	**12T649**
5	480	10.34	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	99	99	99	98	130.0 ft	½ in	Dayton	12T650	**12T650**
7 ½	220	24.64	No Switch Incl.	2 ½ in Flanged	30¼"	11"	24"	20 ft	CI	Brass	140 °F	99	99	99	99	155.0 ft	½ in	Dayton	12T651	**12T651**

** CI = cast iron, DI = ductile iron, EP = engineered polymer, SS = stainless steel.*

21TN73

10V137

4HEX1

Sewage Grinder Pump Systems with Alarm

- 1-phase

Tether float switch actuated pumps feature an alarm that turns on when water rises to a preset level in the sump basin to alert that the pump has malfunctioned or is not able to keep up with the water flow. Systems include grinder pumps, basins, pipe, control panels, and switches to turn pumps on and off. Pumps have a grinding plate on the bottom that shreds large particles into small fragments so the pump inlet won't clog and the waste can be pumped into a sewage system. Systems are not for use with septic systems since the small particles will not be filtered out in the septic system's drain field and will contaminate the groundwater. The 110V pumps are compatible with most standard U.S. residential electrical wall outlets.

HP	Nominal Voltage	Amps	Switch Electrical Connection	H	No. of Pumps	Dia.	Min. Sump Pit Dia.	Cord Length	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head (GPM) 5	10	20	30	Max. Head (ft.)	Max. Diameter Solids	Brand	Mfr. Model	Item No.
½ hp	110V AC	7 A	Piggyback	30"	1	10³⁄₁₆"	18"	15 ft	CI	EP	104 °F	23	27	13	—	26 ft	—	Zoeller	915-0005	**19T429**
1 hp	110V AC	12 A	Integral	24"	1	24⅜"	—	10 ft	CI	CI	140 °F	44	42	36	27	50 ft	2 in	Liberty Pumps	P382XPRG101	**21TN73**
1 hp	110V AC	12 A	Integral	24"	2	29⁷⁄₁₆"	—	10 ft	CI	CI	140 °F	44	42	36	27	50 ft	2 in	Liberty Pumps	P682XPRG101	**21TN75**
2 hp	208V AC, 220V AC	15 A	Integral	72"	2	42"	—	25 ft	CI	SS	140 °F	50	50	50	50	108 ft	2 in	Liberty Pumps	D3672LSG202-48	**10V137**
2 hp	220V AC	13.7 A	Piggyback	—	1	—	—	20 ft	CI	DI	130 °F	46	46	46	46	106 ft	—	Zoeller	922-0092	**792XW1**
2 hp	220V AC	17.2 A	Integral	23¾"	2	11²¹⁄₃₂"	36"	20 ft	CI	DI	130 °F	45	45	45	44	104 ft	—	Zoeller	923-0006	**4HEX1**

** CI = cast iron, DI = ductile iron, EP = engineered polymer, PP = polypropylene, SS = stainless steel.*

12U574

Sludge Pumps

- Pump discharge: 4" dia.
- Max. liquid temp.: 140°F
- Include 20-ft. power cord

Use to transfer a mixture of fluid, usually water and pulverized solids. They are attached to a tank to drain the sludge that is noncorrosive and nonexplosive. Pumps are suitable for use in sewage treatment and industrial applications. Three-phase pumps have motors that are more efficient than one phase, and they use a higher voltage that allows for larger motors that require less current than lower-voltage motors. All models require a control panel, sold separately on page 2630.

HP	Overall Height	Dia.	Min. Sump Pit Dia.	Amps	Body Material*	Impeller Material*	Flow Rate @ Ft. of Head (GPM) 5	10	30	Max. Head	Max. Diameter Solids	Mfr. Model	Item No.
1-Phase													
7 ½ hp	29 ⁵⁄₁₆ in	16¹³⁄₁₆"	96 in	58.2 A	CI	CI	770	740	475	54.0 ft	3 in	12U574	**12U574**
3-Phase													
15 hp	33 ⅝ in	17½"	96 in	57.2 A	CI	CI	940	890	705	78.0 ft	3 in	12U579	**12U579**

** CI = cast iron.*

4RK10

4NW29

21F469

Sump/Sewage Basins

Basins keep dirt and debris from entering the sump pit and clogging the sump pump inlet. ideal for new construction or renovation.

Description	Inlet	Outlet	Vent	Material	H	Dia.	Cap.	Includes	Brand	Mfr. Model	Item No.
Sump Basin	1½"	1 ¼ in, 1 ½ in	2"	Structural Foam	14"	—	11.0 gal	Cover	Dayton	4RK10	**4RK10**
Sump Basin	—	½ in	—	Polyethylene	22"	18"	18.0 gal	—	Little Giant	513902	**2EHL9**
Sump Basin	—	1 ½ in	3"	Polyethylene	22"	18"	18.0 gal	Cover, Sealing Hardware, Flanges	Zoeller	31-0249	**4NW29**
Sump Basin	—	—	—	Polyethylene	22"	18"	22.0 gal	—	Zoeller	31-0444	**12U350**
Sewage Basin	4"	—	—	Polyethylene	30"	18"	30.0 gal	4" FG HUB	Zoeller	31-0080	**12U346**
Sewage Basin	4"	—	—	Poly Structural Foam	36"	24"	65.0 gal	4" CI HUB	Zoeller	31-0110	**12U348**
Sump Basin Cover	—	Slotted	—	Polyethylene	1"	20"	—	—	Zoeller	17-0135	**12U351**
Sump Basin Cover	—	2"	—	Polyethylene	2"	20 ½"	—	Cord Grommet, Discharge Grommet, Hardware, Sealing Tape	Little Giant	14940654	**21F469**
Sewage Basin Cover	—	2"	2 or 3"	Poly Structural Foam	1"	20 ½"	—	Hardware Pack Includes (Screws, Lid Seal, Pipe And Cord Grommets), Washers	Zoeller	17-0411	**12U347**
Sewage Basin Cover	—	2"	2"	Steel	1"	28"	—	Hardware Pack	Zoeller	17-0806	**12U349**

HARTELL · Little GIANT · Dayton · Flotec · Liberty Pumps · ZOELLER PUMP COMPANY

Sink Drain Pump Systems

- Max. dia. solids: ⅜"

Allow for wastewater draining of sinks, tubs, and washing machines where a gravity system won't work, such as in a basement that is below the main sewer line. Pumps are connected near the area to be drained and allow automatic basin draining when the basin is full. Dayton systems have a vertical float switch while 12F739 and 12F740 have nonclogging stainless steel impellers. Liberty Pumps models feature a separate access cover to ease switch maintenance and a piggyback-style plug. Little Giant pumps have thermal overload protection. 36N560 and 36N561 are preassembled while 4NY91 is compact for tight spaces. Zoeller models can be installed with an internal trap to save space and have no inlet filters or screens to clean.

Hartell 411M32

Dayton 2VJ77

Flotec 401Z78

Liberty Pumps 1GEK4

Zoeller 2P778

Little Giant 4NY91

Dayton 12F741

Liberty Pumps 2WMN6

HP	Nominal Voltage (V AC)	Amps	Switch Actuation	Basin Inlet Dia.	Basin Height	Basin Dia.	Basin Capacity (gal.)	Basin Material*	Pump Body Material*	Max. Liquid Temp.	Cord Length	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head (ft.)	Brand	Mfr. Model	Item No.
⅛	110	2.2	Diaphragm	1½"	—	—	1.0	—	ABS	140 °F	8 ft	28	10	—	—	11	Hartell	LTA-1	**411M32**
⅙	110	5	Diaphragm	1½"	15 9/16"	—	5.0	PP	—	120 °F	10 ft	15	12	8	—	21	Little Giant	505055	**36N560**
¼	110	5.0	Vertical Float	1½"	6 13/16"	—	1.0	ABS	PP	130 °F	8 ft	45	25	—	—	12	Hartell	LTP-1	**411M30**
⅓	110	3.1	Vertical Float	1½"	12½"	11¾"	5.0	TPL	TPL	130 °F	10 ft	38	30	14	—	18	Dayton	2VJ77	**2VJ77**
	110	4.0	Vertical Float	1½"	14 13/64"	15 13/16"	6.0	SF	SF	70 °F	8 ft	51	40	28	11	22	Flotec	FPZS33LTS	**401Z78**
	110	4.1	Vertical Float	1½"	13⅜"	—	6.0	HDPE	CI	140 °F	10 ft	36	30	25	12	25	Dayton	12F738	**12F738**
	110	4.1	Vertical Float	1½"	13⅜"	—	6.0	HDPE	TPL	140 °F	10 ft	40	36	32	23	25	Dayton	12F739	**12F739**
	110	5	Vertical Float	1½"	11⅛"	13¾"	4.3	PO	PP	140 °F	10 ft	38	25	15	4	21	Liberty Pumps	404	**1GEK4**
	110	5.6	Vertical Float	1½"	6 13/16"	—	2.0	ABS	PP	130 °F	8 ft	48	35	10	—	16.5	Hartell	LTS-1	**411M31**
	110	9.7	Vertical Float	1½"	10⅞"	12⅕"	5.0	PP	CI	130 °F	9 ft	43	34	19	0 gpm	19.2 ft	Zoeller	105-0001	**2P778**
	115	9	Diaphragm	1½"	10½"	14"	3.5	PP	—	140 °F	10 ft	46	29	13	—	18	Little Giant	506065	**4NY91**
	115	9	Diaphragm	1½"	15 9/16"	—	5.0	PP	—	120 °F	10 ft	46	29	13	—	18	Little Giant	506055	**36N561**
½	110	4.9	Vertical Float	1½"	13⅜"	—	6.0	HDPE	CI	140 °F	10 ft	42	38	32	24	26	Dayton	12F740	**12F740**
	110	4.9	Vertical Float	1½"	13⅜"	—	6.0	HDPE	TPL	140 °F	10 ft	55	51	46	39	28	Dayton	12F741	**12F741**
	110	7.3	Vertical Float	2"	14⅛"	13¾"	5.5	PO	PP	180 °F	10 ft	48	44	39	32	34	Liberty Pumps	405	**1GEK5**
	110	9.4	Vertical Float	1½"	10⅞"	12⅕"	5.0	PP	CI	130 °F	15 ft	72	61	45	25	23	Zoeller	131-0001	**5CZG1**
	208, 220	3.5	Vertical Float	2"	14⅛"	13¾"	5.5	PO	PP	180 °F	10 ft	48	44	39	32	34	Liberty Pumps	405HV	**2WMN6**

** ABS = acrylonitrile butadiene styrene, CI = cast iron, HDPE = high-density polyethylene, PO = polyolefin, PP = polypropylene, SF = structural foam, TPL = thermoplastic.*

Sump Pump and Crawl Space Systems

Little GIANT · Liberty Pumps · ZOELLER PUMP COMPANY

- Max. dia. solids: ⅜", except 5CZF9 and 6JGW5 are ½", 4HGH7 is 2"

Quickly remove wastewater where gravity drain lines are not available. 10V133, 10V132 and 5CZF9 are for use in dewatering crawl spaces, basements, and where water pooling occurs, and include discharge hose. 4HGH7 has discharge and electrical connections on the side of the basin allowing the top of basin to be flush with ground level. 5CZF9 and 6JGW5 help eliminate water and dampness, preventing damage, odors, and mold/fungus growth. All systems include a pump, pipe, sump basin, and sump basin cover suitable for a basement sump pump installation.

Little Giant 4HGH7

Liberty Pumps 10V132

Zoeller 5CZF9

Zoeller 6JGW5

HP	Rated Voltage	Amps	Switch Actuation	Basin Height	Basin Dia.	Basin Capacity (gal.)	Basin Material*	Pump Body Material*	Max. Liquid Temp.	Cord Length	Flow Rate @ Ft. of Head (GPM) 5	10	15	20	Max. Head (ft.)	Brand	Mfr. Model	Item No.
4/10	115V AC	13	Tether Float	30"	20"	13.0	PE	PE	120 °F	20 ft	110	70	30	—	20	Little Giant	509922	**4HGH7**
½	115V AC	7.5	Vertical Float	15"	15"	7.5	PE	AL, PP	140 °F	10 ft	48	44	38	32	34	Liberty Pumps	CSP-457	**10V133**
⅓	115V AC	5.2	Vertical Float	15"	15"	5.2	PE	AL, PP	140 °F	10 ft	38	18	20	48	21	Liberty Pumps	CSP-237	**10V132**
3/10	120V AC	9.7	Vertical Float	10⅞"	12 3/16"	9.7	PE	CI	130 °F	25 ft	43	34	19	—	19.2	Zoeller	108-0001	**5CZF9**
3/10	120V AC	9.7	Vertical Float	22"	18"	9.7	PP	CI	130 °F	9 ft	43	34	19	—	19	Zoeller	900-0002	**6JGW5**

** AL = aluminum, CI = cast iron, PE = polyethylene, PP = polypropylene.*

Pump Replacement Parts/Accessories

Liberty Pumps · Little GIANT · ZOELLER PUMP COMPANY

Additional replacement parts are available on Grainger.com.

Description	For Use With	For Use With	Mfr. Model	Item No.
Liberty Pumps				
Pump Stand	Mfr. No. 237, 230, 233, 457, 450, 453, 257, 287	2WMJ9, 2WMK1-5, 5YE75, 5YE77	4445000	**5YE79**
Little Giant				
Diaphragm Switch Repair Kit	10-CIA, 6-CIA, 8-CBA, Mfr. No. RS-5-18	2P353, 3P639, 3P641, 3P643	599320G	**4NXN6**
Garden Hose Adaptor	3P640	3P640	599025	**4NXN2**
Housing/Switch	3P639, 4NY91	3P639, 4NY91	108049G	**4NXK8**
Impeller	Mfr. No. 5MSP-18	2P352	105310G	**4NXJ7**
Intake Screen	Mfr. No. 506923	4NY91	113131G	**4NXL4**
Tank	Mfr. No. 3-ABS, VCL-14ULS, VCL-24ULS, VCL-24ULS-230, VCL-45S, VCL-45ULS-230	2GZG2, 2P096, 3P731, 3P732, 4RL05, 4RL06	153502G	**4NXL5**
Volute	1-A, 1-AA-18, Mfr. No. 1-AA, PE-1	1P553, 1P939, 2P526, 3P734	101375G	**4NXH8**
Volute	2E-NYS, Mfr. No. 2E-N, PE-2H	1P321, 4RK84, 4RK93	102332G	**4NXJ1**
Volute	2E-38N-WG, 2E-38NY, 2E-NDVR, Mfr. No. 2E-38N	1P372, 1P521, 4RK85, 4XK38	102375G	**4NXJ2**
Volute Base	6EN-CIM, Mfr. No. 506951	4XK40, 4XK41	106369G	**4NXK4**
Wide Angle Float Switch	10E-CIA-RFS, 509925, 9S-SMPX-LG, 9SN-CIA-RF, Mfr. No. WCR-9SP	4HGH7, 4NY89, 4NY90, 4RK90, 4RK91	599117G	**4NXN3**
Zoeller				
Arm and Seal	2P547 to 2P550	2P547-2P550	004704	**2VJ66**
Cap & Switch Unit	2P547, 2P549, 2P550	2P547, 2P549	004702	**2VJ75**
Capacitor	M3098, Mfr. No. M292, N292	2P555, 4NW21, 4P023	003575	**2VJ67**
Flange Kit	E284, G295, J284, M292, Mfr. No. D284, N292	2P554, 2P555, 4NW21-4NW28, 4NW31, 4NW32	10-1305	**2VJ76**
Mechanical Switch	M267, Mfr. No. M137	2P551, 2P552	004740	**2VJ71**
Mechanical Switch	2P554, 2P555	2P554, 2P555	004744	**2VJ72**
Mechanical Switch	M264, M3098, M98, Mfr. No. M53	2P547-2P550, 4NW06, 4P023	004705	**2VJ73**
Mechanical Switch	2P553	2P553	004755	**2VJ74**
Power Cord	M55, M57, Mfr. No. M53	2P547-2P549	004700	**2VJ68**
Pump Stand	Sump & Effluent Pumps	Sump & Effluent Pumps	10-2421	**3NXV7**
Relay	2P555, 4NW21	2P555, 4NW21	217092	**2VJ69**
Relay	E284, Mfr. No. E191	4NW20, 4NW31	217093	**2VJ70**

Hoffman
4FNY6

Dayton
2PZG2

Zoeller
3GVK2

Hoffman
5GUT8

Pump Control Panels

Models are wall-mounted boxes with relays, switches, and breakers for controlling the start and stop cycling of sump and sewage pumps and attached alarms. These pump control panels use wiring to connect to the pump and allow for automatic or manual pump operation depending on the application.

Phase	Nominal Voltage (V AC)	Amps	For Use With	Encl. Type	Brand	Mfr. Model	Item No.
Number of Pumps Controlled: 1							
1	110	40	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VYN115PCP40	**4FNY6**
	110, 208, 220	0 to 20	—	NEMA 4X	Dayton	2PZG2	**2PZG2**
	110, 208, 220	0 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V0020S	**4FNY7**
	110, 208, 220	7 to 15	—	NEMA 4X	Dayton	2PZG4	**2PZG4**
	110, 208, 220	7 to 16	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V0716S	**4FNY8**
	110, 208, 220	15 to 20	—	NEMA 4X	Dayton	2PZG5	**2PZG5**
	110, 208, 220	15 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V1520S	**4FNY9**
	110, 208, 220	20 to 30	—	NEMA 4X	Dayton	2PZG3	**2PZG3**
	220	20	4HEW7	NEMA 4X	Zoeller	10-2582	**4DMG5**
	220	32	—	NEMA 4X	Dayton	2PZF8	**2PZF8**
3	208, 220, 480	4 to 6.3	—	NEMA 4X	Dayton	2PZH1	**2PZH1**
	208, 220, 480	6 to 10	—	NEMA 4X	Dayton	2PZH2	**2PZH2**
	208, 220, 480	6.3 to 10	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V0610S	**4FNZ7**
	208, 220, 480	9 to 13	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V0913S	**4FNZ8**
	208, 220, 480	9 to 14	—	NEMA 4X	Dayton	2PZH3	**2PZH3**
	208, 220, 480	13 to 18	—	NEMA 4X	Dayton	2PZH4	**2PZH4**
	208, 220, 480	14 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V1420S	**4FNZ9**
	208, 220, 480	23 to 32	—	NEMA 4X	Dayton	2PZF9	**2PZF9**
	220, 480	20	4HEW8	NEMA 4X	Zoeller	10-0353	**4DMG6**
Number of Pumps Controlled: 2							
1	110	0 to 12	—	NEMA 1	Zoeller	10-0804	**3GVK2**
	110, 208, 220	0 to 20	—	NEMA 4X	Dayton	2PZG6	**2PZG6**
	110, 208, 220	0 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V0020D	**4FNZ2**
	110, 208, 220	7 to 15	—	NEMA 4X	Dayton	2PZG8	**2PZG8**
	110, 208, 220	7 to 16	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V0716D	**4FNZ3**
	110, 208, 220	15 to 20	—	NEMA 4X	Dayton	2PZG9	**2PZG9**
	110, 208, 220	15 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V1520D	**4FNZ4**
	110, 208, 220	20 to 25	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-1240V2025D	**4FNZ5**
	110, 208, 220	20 to 30	—	NEMA 4X	Dayton	2PZG7	**2PZG7**
3	208, 220, 480	1.6 to 2.5	Sub. Pump, No Switch	UL Type 4X	Hoffman	VS-3480V0103D	**5GUT8**
	208, 220, 480	2.5 to 4	Sub. Pump, No Switch	UL Type 4X	Hoffman	VS-3480V0204D	**5GUT9**
	208, 220, 480	4 to 6.3	—	NEMA 4X	Dayton	2PZH5	**2PZH5**
	208, 220, 480	4 to 6.3	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V0406D	**4FPA1**
	208, 220, 480	6 to 10	—	NEMA 4X	Dayton	2PZH6	**2PZH6**
	208, 220, 480	6.3 to 10	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V0610D	**4FPA2**
	208, 220, 480	9 to 13	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V0913D	**4FPA3**
	208, 220, 480	9 to 14	—	NEMA 4X	Dayton	2PZH7	**2PZH7**
	208, 220, 480	13 to 18	—	NEMA 4X	Dayton	2PZH8	**2PZH8**
	208, 220, 480	14 to 20	Sub. Pump, No Switch	NEMA 4X, UL Type 4X	Hoffman	VS-3480V1420D	**4FPA4**

5VD15

6WY64

Pneumatic Utility and Dewatering Pumps

These self-priming and run-dry capable pumps operate at low speeds to handle mud, leaves, twigs, sand, sludge, trash-laden water, and soft solids without clogging or choking. They are powered by an air compressor and don't have an electric motor that produces sparks that may ignite flammable liquids. Pumps transfer moderate amounts of water on jobsites and accept an inlet hose so they don't have to be placed in the water that needs to be drained. They are self-draining to prevent damage in below-freezing weather and have a continuous automatic lubricating internal oiler and an oil-batch-lubricated shaft seal. 5VD16 and 5VD15 have a screened inlet and an adjustable impeller and impeller cover to help maintain peak performance. All models have a cast-iron, 2-vane trash-type impeller. CE Certified.

Air Inlet Pressure	Max. Head	Discharge	Max. Diameter Solids	Body Material*	Impeller Material*	Max. Liquid Temp.	Flow Rate @ Ft. of Head 10	20	30	Brand	Mfr. Model	Item No.
80 psi	64.7 ft	3 in FNPT	1 ½ in	AL	CI	160 °F	275.0 gpm	210.0 gpm	150.0 gpm	SANDPIPER	SMA3,6AM1.	**6WY64**
90 psi	90.0 ft	2½ in FNPT	¼ in	CI	CI	150 °F	85.0 gpm	75.0 gpm	70.0 gpm	Aro	P237A1-EU	**5VD15**
90 psi	240.0 ft	2 in FNPT	¼ in	CI	CI	150 °F	240.0 gpm	230.0 gpm	225.0 gpm	Aro	P35A1-EU	**5VD16**

** AL = aluminum, CI = cast iron.*

4UN79

12U355

5CZG9

2P843

4DKK7

4UN78

6JGV6

1XHV8

4RG90

4RG88

Sump/Sewage Check Valves

Prevent backflow of sump disposal lines, wastewater lines, sewage lift stations, and ejector systems. They are used in combination with piston, diaphragm and metering pumps and commonly use ball check valves that combine balls and seats in the same valve body for a leak-free shutoff. For additional sizes, go to Grainger.com and search for "sewage check valves."

Klunkless 1XHV8—A large "silencing air chamber" absorbs the clunking sound when the sump pump turns off.

Item	Size	Connec. Type	Material of Construc.*	Mounting Position	Brand	Item No.
Check Valve	1¼" or 1½"	Slip Union	TPR	Vertical	Dayton	**4UN79**
Check Valve with Ball Valve	1½"	Socket	PVC	Vertical	Dayton	**4RG92**
	1½"	Solvent	PVC	Vertical or Horizontal	Zoeller	**12U355**
	2"	Socket	PVC	Vertical	Dayton	**4RG93**
	2"	Solvent	PVC	Vertical or Horizontal	Zoeller	**12U356**
Check Valve with Ball Valve and Union	1½"	Socket	PVC	Vertical or Horizontal	Zoeller	**5CZG9**
	2"	Socket	PVC	Vertical or Horizontal	Zoeller	**5CZH0**
Check Valve with Union	1½"	Socket	PVC	Vertical or Horizontal	Zoeller	**5CZH1**
	2"	Socket	PVC	Vertical or Horizontal	Zoeller	**5CZH2**
Full Flow Check Valve	1¼" or 1½"	Slip x Slip	PVC	Vertical or Horizontal	Zoeller	**2P843**
	1½"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	**6JGV5**
	2"	FNPT	CI	Vertical or Horizontal	Zoeller	**2P845**
	2"	Slip x Slip	PVC	Vertical or Horizontal	Zoeller	**2P844**
	3"	Compression	PVC	Vertical or Horizontal	Zoeller	**5CZG8**
	3"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	**6JGV7**
High Temp. Swing Check Valve	1½"	FNPT	CI	Vertical or Horizontal	Liberty Pumps	**4DKK7**
	2"	FNPT	CI	Vertical or Horizontal	Liberty Pumps	**4DKK8**
Klunkless Check Valve	1¼" or 1½"	Slip Union	ABS	Vertical	PHCC Pro Series	**1XHV8**
Screw-In Check Valve	1¼" or 1½"	MNPT	TPR	Vertical	Dayton	**4UN78**
Silent Check Valve	2"	Solvent Weld	PVC	Vertical or Horizontal	Zoeller	**6JGV6**
Swing Check Valve	1½"	Compression	PVC	Vertical	Dayton	**4RG88**
	2"	Compression	PVC	Vertical	Dayton	**4RG89**
True Union Swing Waste Water Check Valve	1½"	Socket	PVC	Vertical	Dayton	**4RG90**
	2"	Compression	PVC	Vertical	Dayton	**4RG91**

** ABS = acrylonitrile butadiene styrene, CI = cast iron, PVC = polyvinyl chloride, TPR = thermoplastic rubber.*

Sump and Sewage Float and Diaphragm Switches

- Normally Closed: pump up for filling applications
- Normally Open: pump down for dewatering applications

Piggyback switches connect directly to the pump. The pump's power cord is plugged into the switch to control electric power to the pump. Wire lead switches require control panels, see page 2630. All switches are mechanically operated, except 3BY79 is a mercury activated switch.

Note: Use only with liquids compatible with switch construction.

Tether Float—Activated by a float that is attached to the pump by a flexible tether that can be adjusted so the pump starts and stops automatically at preset levels. They require more space to operate compared to vertical float switches since the flexible tether moves in an arc as the water level rises and falls in the sump basin.

Vertical Float—Suitable for smaller-diameter sump basins since they use a float that moves a rod straight up and down to activate the switch. The switch starts and stops the pump automatically when the water reaches a preset level.

Diaphragm—Switches are activated by pressure within a diaphragm to start and stop pumps automatically when the water reaches a certain level. They have no moving parts, are compact so they take up little space, and require periodic cleaning since the diaphragm switch may get clogged with debris. Diaphragm switches connected to a tether are often adjustable so the pump will start and stop when the water reaches a desired level.

Switch Accessories—45JZ57 can mount up to 4 float cables. 45JZ58 seals off cables coming into an enclosure. 45JZ59 to 45JZ61 can mount a float cable to PVC pipe. 53CK41 includes external cable weight.

Tether Float
3BY74

Tether Float
3BY81

Tether Float
4ZZF3

Tether Float
6PNV7

Vertical Float
10A169

Nominal Voltage	Cord Length	Amps	On Point	Off Point	Minimum Tether Length	Maximum Tether Length	Max. Liquid Temp.	Float Material*	Brand	Item No.
Tether Float Switches										
Piggyback, Normally Closed										
110V AC	10 ft	10 A	45° Below Horizontal	45° Above Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY74**
	10 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ24**
	10 ft	13 A	—	—	3 in	18 in	140 °F	ABS	Dayton	**3BY78**
	10 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ28**
	15 ft	10 A	45° Below Horizontal	45° Above Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY75**
	15 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ25**
	15 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ29**
	20 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ26**
	20 ft	13 A	—	—	3 in	18 in	140 °F	ABS	Dayton	**3BY80**
	20 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ30**
	30 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ27**
	30 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ31**
220V AC	15 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ33**
	20 ft	13 A	—	—	3 in	18 in	140 °F	ABS	Dayton	**3BY85**
	30 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ39**
Piggyback, Normally Open										
110V AC	10 ft	12 A	—	—	—	—	104 °F	ABS	PHCC Pro Series	**38G748**
	10 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV6**
	10 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU4**
	10 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV30**
	10 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY91**
	10 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY95**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU5**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY82**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY92**
	15 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY96**
	20 ft	13 A	14 in Above Base	6 in Above Base	—	—	120 °F	PVC	Little Giant	**44ZJ19**
	20 ft	13 A	14 in Above Base	6 in Above Base	—	—	120 °F	PVC	Little Giant	**44ZJ35**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU7**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV33**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY93**
	20 ft	13 A	—	—	3 in	18 in	186 °F	ABS	Dayton	**3BY81**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU9**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY97**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV1**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY83**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV36**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY94**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**10A175**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV3**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JY98**
	60 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV4**
220V AC	10 ft	12 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV31**
	10 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ04**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY84**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU6**
	20 ft	12 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV34**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNU8**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV0**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ06**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV2**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**10A176**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV5**
Wire Leads, Normally Closed										
110V AC, 220V AC	10 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ48**
	10 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ49**
	10 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ40**
	10 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ44**
	15 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ50**
	15 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ41**
	15 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ45**
	20 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ53**
	20 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ52**
	20 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ42**
	20 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ46**
	30 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ55**
	30 ft	5 A	1 ½ in Below Horizontal	1 ½ in Above Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ54**
	30 ft	13 A	45° Below Horizontal	45° Above Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ43**
	30 ft	15 A	45° Below Horizontal	45° Above Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ47**

** ABS = acrylonitrile butadiene styrene, PVC = polyvinyl chloride, PP = polypropylene.*

CONTINUED

CONTINUED

Dayton · SJE-Rhombus · PHCC Pro Series Pumps · Little GIANT · Liberty Pumps · GE · FLOWLINE

Sump and Sewage Float and Diaphragm Switches

Vertical Float
3VA90

Diaphragm
2P353

Diaphragm
4RL50

Dual Micro Reed
1APP4

Nominal Voltage	Cord Length	Amps	On Point	Off Point	Minimum Tether Length	Maximum Tether Length	Max. Liquid Temp.	Float Material*	Brand	Item No.
Tether Float Switches (Cont.)										
Wire Leads, Normally Open										
110V AC	10 ft	13 A	8 ⅛ in Above Base	3 ¼ in Above Base	3 in	4 ½ in	140 °F	PVC	Liberty Pumps	**38A978**
110V AC, 30V DC, 5V DC	20 ft	0.16mA to 0.1A @ 125V, 0.16mA to 0.1A @ 30V, 1mA @ 5V	15° Above Horizontal	15° Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**464P68**
110V AC, 220V AC	10 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ16**
	10 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ17**
	10 ft	12 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV32**
	10 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ08**
	10 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ12**
	10 ft	20 A	45° Above Horizontal	45° Below Horizontal	5 in	22 in	120 °F	PVC	SJE-Rhombus	**5AEP0**
	15 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ19**
	15 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 in	20 in	140 °F	PP	SJE-Rhombus	**45JZ18**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	221 °F	ABS	Dayton	**10A173**
	15 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ09**
	15 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ13**
	15 ft	20 A	45° Above Horizontal	45° Below Horizontal	5 in	22 in	120 °F	PVC	SJE-Rhombus	**5AEP1**
	20 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ21**
	20 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ20**
	20 ft	5A @ 240V, 10A @ 120V	5° Above Horizontal	45° Below Horizontal	4 in	6 in	190 °F	ABS	Abb	**4ZZF3**
	20 ft	10 A	25° Above Horizontal	10° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**10A172**
	20 ft	10 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**3BY79**
	20 ft	12 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV35**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**6PNV7**
	20 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ10**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	140 °F	ABS	Dayton	**10A174**
	20 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ14**
	20 ft	20 A	45° Above Horizontal	45° Below Horizontal	5 in	22 in	120 °F	PVC	SJE-Rhombus	**5AEP2**
	30 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ23**
	30 ft	5 A	1 ½ in Above Base	1 ½ in Below Horizontal	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**45JZ22**
	30 ft	12 A	45° Above Horizontal	45° Below Horizontal	3 in	18 in	200 °F	PP	SJE-Rhombus	**45DV38**
	30 ft	13 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ11**
	30 ft	15 A	45° Above Horizontal	45° Below Horizontal	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**45JZ15**
	30 ft	20 A	45° Above Horizontal	45° Below Horizontal	5 in	22 in	120 °F	PVC	SJE-Rhombus	**5AEP3**
Wire Leads, Normally Open/Normally Closed										
110V AC, 220V AC	15 ft	13 A	Adjustable	Adjustable	3 ½ in	24 in	140 °F	PVC	SJE-Rhombus	**53CK41**
120V AC	15 ft	1 A	1 ½ in	1 ½ in	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**55KD99**
	30 ft	1 A	1 ½ in	1 ½ in	3 ½ in	3 ½ in	140 °F	PP	SJE-Rhombus	**55KE01**
220V AC	20 ft	10 A	Adjustable	Adjustable	—	—	122 °F	PP	Flowline	**49K046**
	20 ft	10 A	Adjustable	Adjustable	—	—	176 °F	PP	Flowline	**49K048**
	50 ft	10 A	Adjustable	Adjustable	—	—	122 °F	PP	Flowline	**49K047**
	50 ft	10 A	Adjustable	Adjustable	—	—	176 °F	PP	Flowline	**49K049**
Vertical Float Switches										
Piggyback										
110V AC	8 ft	10 A	Top Stop	Bottom Stop	—	—	140 °F	ABS	Dayton	**10A169**
Piggyback, Normally Open										
110V AC	10 ft	10 A	Top Stop	Bottom Stop	—	—	140 °F	ABS	Dayton	**10A170**
	10 ft	12 A	Adjustable	Adjustable	—	—	104 °F	PP	PHCC Pro Series	**49AX06**
	10 ft	15 A	Adjustable	Adjustable	—	—	104 °F	PP	PHCC Pro Series	**49AX01**
	20 ft	10 A	Top Stop	Bottom Stop	—	—	140 °F	ABS	Dayton	**10A171**
110V AC, 220V AC	10 ft	13 A	Adjustable	Adjustable	—	—	110 °F	PVC	Little Giant	**3VA90**
Diaphragm Switches										
Piggyback, Normally Open										
110V AC	18 ft	10 A	Adjustable	Adjustable	—	—	110 °F	Nylon	Little Giant	**2P353**
	18 ft	10 A	Adjustable	Adjustable	—	—	120 °F	Buna-N	Little Giant	**4RL50**
Dual Micro Reed Float Switches										
Piggyback, Normally Open										
110V AC	10 ft	12 A	Adjustable	Adjustable	—	—	104 °F	ABS	PHCC Pro Series	**49AX02**
	10 ft	12 A	Adjustable	Adjustable	—	—	104 °F	ABS	Dayton	**1APP4**

** ABS = acrylonitrile butadiene styrene, PVC = polyvinyl chloride, PP = polypropylene.*

Description	For Use With	Brand	Item No.
Switch Accessories			
Float Bracket	Floats with 18/2, 18/3, 16/2, 16/3, SJOW and SJTW Cords	SJE-Rhombus	**45JZ57**
Cable Weight	Accommodates SJOW, SJTW, 18/2, 18/3, 16/2, 16/3, 14/2, 14/3 Wire and Cable	SJE-Rhombus	**45JZ56**
Cable Seal	Accommodates SJOW, SJTW, 18/2, 18/3, 16/2, 16/3, 14/2, 14/3 Wire and Cable	SJE-Rhombus	**45JZ58**
Cable Clamp	12 ga Wire/Cable	SJE-Rhombus	**45JZ61**
Cable Clamp	14 ga Wire/Cable	SJE-Rhombus	**45JZ60**
Cable Clamp	18 ga and 16 ga Wire/Cable	SJE-Rhombus	**45JZ59**

Liberty Pumps · PHCC Pro Series Pumps · Little GIANT · Zoeller Pump Company

Auto Dialer and High-Water Alarms

4NE49

4NY92

2VJ64

Liberty Pumps 4DKK5— Automatically calls up to 4 phone numbers to send a 16-sec. recorded warning. LED display. Unit requires a 9V battery (not included) for battery backup. Indoor mounting only.

PHCC Pro Series 4NE49— Detects water as shallow as 1/32" and sounds alarm for up to 72 hr. on a new 9V alkaline battery (sold separately).

Little Giant 4NY92— Audible and visual alarms operate on 9VDC battery backup if power fails. Includes test switch. For indoor use.

Zoeller 53MD94 and 2VJ64— 53MD94 indoor alarm has battery backup and manual shutoff. 2VJ64 is for indoor/outdoor use.

Liberty Pumps 54TY46— NightEye enabled so you can connect to your wireless network and receive notifications about your system in real time. Model includes a 9V battery and compact snap-on sensor float.

Voltage	Amps	Power Cord Length	Brand	Mfr. Model	Item No.
Auto Dialer					
120 VAC	—	7 ft	Liberty Pumps	ADC-1	**4DKK5**
Indoor High Water Alarm					
9 DC	—	—	PHCC Pro Series	PWA	**4NE49**
115 AC	—	6 ft	Little Giant	513901	**4NY92**
Level Alarm					
115V AC	0.05 A	9 ft	Liberty Pumps	ALM-P1-EYE	**54TY46**
115V AC	0.05 A	9 ft	Liberty Pumps	ALM-P1	**54TY42**
115V AC	0.5 A	6 ft	Zoeller	10-4489	**53MD94**
Outdoor High Water Alarm					
115 AC	—	6 ft	Zoeller	10-0682	**2VJ64**

5PXY0

4HEX4

33RW83

5YU12

3YU61

5UXL7

5UXN4

3YU60

Portable Self-Priming Utility Pumps

Pump repair kits for select models are sold separately.

CENTRIFUGAL PUMPS

5PXY0—For irrigation, general water transfer, and other continuous-duty applications. Model has ball bearings and comes with a mechanical carbon ceramic/stainless steel/Buna N seal. Open-type impeller.

4HEX4 and 33RW83—Use to water lawns, pump out flooded basements, and boost city water pressure. Intermittent duty with mechanical carbon/ceramic seals. 4HEX4 has permanently lubricated shielded ball bearings, external brush holders, rubber feet and suction screen; 33RW83 has ball bearings and replacement brushes.

5YU12—Provides high head and high pressures to move water quickly. On/Off switch and a large hand-tightened prime plug with internal funnel design to ease priming. Intermittent duty with ball bearings, mechanical carbon/ceramic/Buna N seals, and a stainless steel retention plate helps extend seal life by retaining water on the shaft seal. Open-type impeller.

FLEXIBLE IMPELLER PUMPS

Ideal for transferring liquids and emptying bowls, sinks, tanks, bilges, and have a dual inlet and outlet. Intermittent duty.

3YU61—Pump comes with ball bearings, Buna N lip seal, suction screen, 6-ft. garden hose and a lightweight plastic housing.

5UXL8 to 5UXN6—Feature stainless steel shaft and ball bearings, except 5UXN4 to 5UXN6 have sleeve bearings. Each includes 2 impellers and gasket. 5UXL7 and 5UXL9 have thermally protected motors.

SPRINKLER/UTILITY CENTRIFUGAL PUMPS

Continuous duty pumps.

3YU60—Use to transfer water, run multiple lawn sprinklers, or boost city water pressure. Ball bearings and mechanical carbon/ceramic/Buna N seal. Model has overload protection and an On/Off switch.

4CUK6—Suitable for transferring liquids and emptying bowls, sinks, tanks, and bilges. Has ball bearings, stainless steel shaft, and mechanical carbon/ceramic seal.

Impeller	HP	Voltage	Amps AC	Motor Encl.	Motor Type	Cord	Inlet/Outlet (in.)	Body Material†	GPM of Water @ Total Ft. of Head* 5	10	20	40	Max. Head (ft.)	Max. Suction Lift (ft.)	Max. Liquid Temp. (°F)	Brand	Mfr. Model	Item No.
Centrifugal Pumps																		
Aluminum	½ hp	115V	2	ODP	Capacitor-Start	8 ft.	1" NPT	AL	41	38	32	6	46	—	180	Dayton	5PXY0	**5PXY0**
Thermoplastic	½ hp	115V	2	Nema 1	AC	20 ft.	1" NPT	CI	23	22.5	21.5	18	115	—	120	Zoeller	314-0002	**4HEX4**
Fiberglass, Nylon	½ hp	115V	2	ODP	AC/DC Brush	10 ft.	1" NPT	FG, PP	22.7	21.6	19	14.2	118	—	120°	Dayton	33RW83	**33RW83**
Thermoplastic	½ hp	115V	2	Nema Type 3	AC/DC Brush	20 ft.	1" NPT	CA	23	22	19	15	105	—	135	Liberty Pumps	331	**5YU12**
Flexible Impeller Pumps																		
Rubber	1/12 hp	115V	2	ODP	AC/DC Brush	10 ft.	1" NPT	P	5.5	5.0	4	1	43	—	77	Dayton	3YU61	**3YU61**
Buna-N	1/10 hp	12 V DC	6.5 to 10	Open	DC	7 ft	⅜ ID; ¾ OD Garden Hose	NPB	3.72 gpm	3.32 gpm	2.31 gpm	—	36.7 ft	7 ft	140 °F	Dayton	5UXL8	**5UXL8**
Buna-N	1/10 hp	12 V DC	6.5 to 10	Open	DC	7 ft	⅜ ID; ¾ OD Garden Hose	SS	3.72 gpm	3.32 gpm	2.31 gpm	—	36.7 ft	7 ft	140 °F	Dayton	5UXN0	**5UXN0**
Buna-N	1/10 hp	12 V DC	7.0	Totally Enclosed Nonventilated	DC Brush	12 in Leads	¾ in Male GHT / ⅜ in FNPT	NPB	—	—	—	—	46 ft	7 ft	120 °F	Little Giant	555602	**5UXN5**
Buna-N	1/10 hp	115 V	1.6	Open	Universal AC/DC	6 ft	⅜ ID; ¾ OD Garden Hose	NPB	5.2 gpm	4.43 gpm	3.05 gpm	—	37.3 ft	7 ft	140 °F	Dayton	5UXL7	**5UXL7**
Buna-N	1/10 hp	115 V	1.6	Open	Universal AC/DC	6 ft	⅜ ID; ¾ OD Garden Hose	SS	5.2 gpm	4.43 gpm	4.5 gpm	—	37.3 ft	7 ft	140 °F	Dayton	5UXL9	**5UXL9**
Buna-N	1/10 hp	115 V	1.6	Open Fan Cooled	AC Brush	6 ft	¾ in male garden hose thread and ⅜ in FNPT	NPB	—	—	—	—	48 ft	7 ft	120 °F	Little Giant	555112	**5UXN4**
Buna-N	1/10 hp	115 V	1.6	Open Fan Cooled	AC Brush	6 ft with NEMA 5-15P Plug	¾ in Male GHT / ⅜ in FNPT	SS	—	—	—	130 gpm	48 ft	7 ft	120 °F	Little Giant	555110	**5UXN6**
Sprinkler/Utility Centrifugal Pumps																		
Plastic with Brass Insert, SS Wear Ring	½ hp	115V	2	ODP	PSC	10 ft.	1" NPT	P	10.3	9.9	9.6	4.2	134	—	90	Dayton	3YU60	**3YU60**
Thermoplastic	½ hp	115V	2	ODP	PSC	5 ½ ft.	1" NPT	SS	—	—	—	—	148	—	90	Dayton	4CUK6	**4CUK6**

For Use With	Includes	Brand	Item No.
Pump Repair Kits			
5UXL7, 5UXL8, 5UXL9, 5UXN0	Cam, 2 Gaskets, 2 Impellers	Dayton	**5UXN1**
5UXL7, 5UXL8, 5UXL9, 5UXN0	2 Gaskets, 2 Impellers	Dayton	**5UXN2**
360S, 555909, Mfr. No. 360	(2) Gaskets, (2) Impellers	Little Giant	**6EDW3**
360S, 555909, Mfr. No. 360	(1) Felt Washer, (1) Retainer Ring, (1) Viton U-Cup Seal, (2) Gaskets, (2) Impellers	Little Giant	**6EDW4**

** To convert to psi, divide total feet of head by 2.31. † AL = aluminum, CA = cast aluminum, CI = cast iron, FG = fiberglass, NPB = nickel plated brass, P = plastic, PP = polypropylene, SS = stainless steel.*

Laundry Tub Water Pump

- Max. solids: ⅛" dia.
- Max. viscosity: 31 SSU
- 1725 rpm
- Mechanical seals have stainless steel, Buna N, carbon/ceramic parts

Manually operated, straight centrifugal, gravity-feed pump is designed specifically for moving laundry water from tub to overhead sewer. Aluminum impeller.

HP	Voltage	Amps	Duty	Motor Type	Inlet Size	Outlet Size	Housing Material	GPM of Water @ 0 ft. of Head* 0	5	10	Best Efficiency Range GPM @ Head+	Max. Head	Max. Liquid Temp.	Item No.
¼ hp	115V AC	4.5	Continuous	Split Phase	1¼ in NPT	1¼ in NPT	Aluminum	25	18	4	4 to 23 gpm @ 10 to 2 ft	11 ft	180 °F	**5PXX9**

** To convert to psi, divide total feet of head by 2.31. + Best operating flow point on the pump curve.*

Electric Utility and Dewatering Pumps

These pumps can transfer water on jobsites. 38H477 and 38H479 are capable of continuous-duty pumping of abrasive materials when used with optional Sand Kits 38H478 and 38H480, available on Grainger.com.

110 to 120V Plug-In—Compatible with most standard U.S. residential electrical wall outlets.

200 to 240V Plug-In—Have a high voltage that allows for larger motors that require less current than lower-voltage motors.

Vehicle Battery-Powered—Powered by a vehicle battery and for use on jobsites where an electrical outlet is not available. Pumps receive battery power as long as they're connected to a vehicle's battery (using the included battery clips) and the vehicle's engine is running.

HP	Flow Rate @ 10 Ft. of Head	Discharge	Max. Head	Max. Dia. Solids	Dia.	Nominal Voltage	Body Material*	Impeller Material*	Max. Liquid Temp.	Cord Length	Brand	Mfr. Model	Item No.
110 to 120 Volt Plug-In													
Diaphragm													
⅙	16.7 gpm	1 in FNPT	20 ft	—	6"	110V AC	AL	N	120 °F	10 ft.	Little Giant	505300	**24WP21**
No Switch Included													
⅙	11 gpm	1 ⅛ in	15 ft	⅛"	4¼"	110V AC	VT	GFN	150 °F	8 ft.	Rule	A53D	**3P992**
	11 gpm	1 ¼ in MNPT	20 ft	⅛"	6-1/6"	110V AC	PP	PA	104 °F	10 ft.	Dayton	3YU54	**3YU54**
	17.5 gpm	1 in MNPT	25 ft	⅛"	6"	110V AC	ABS	ABS	120 °F	8 ft.	Red Lion	505950	**19T430**
	17 gpm	1 in FNPT includes Garden Hose Adapter	26 ft	—	6⅛"	110V AC	AL	N	120 °F	18 ft.	Little Giant	505902	**2P352**
¼	15 gpm	1 ¼ in FNPT	20 ft	³⁄₁₆"	5⅝"	110V AC	SS	SS	104 °F	20 ft.	Dayton	11C685	**11C685**
	23 gpm	1 ¼ in MNPT	22 ft	⅛"	6"	110V AC	PP	PA	104 °F	10 ft.	Dayton	3YU55	**3YU55**
	13 gpm	1 ¼ in MNPT	23 ft	⅛"	7"	110V AC	SS	PA	104 °F	15 ft.	Dayton	3YU64	**3YU64**
⅓	31 gpm	1 ¼ in MNPT	25 ft	⅛"	6"	110V AC	PP	PA	104 °F	10 ft.	Dayton	3YU56	**3YU56**
	59 gpm	1 ½ in MNPT	32 ft	³⁄₁₆"	6½"	110V AC	SS	SS	104 °F	20 ft.	Dayton	11C686	**11C686**
½	57 gpm	¾ in -1 ½ in MNPT	30 ft	—	—	110V AC	PP	—	104 °F	15 ft.	Packard	SD300	**44ZC60**
	64 gpm	1 ½ in MNPT	35 ft	³⁄₁₆"	6½"	110V AC	SS	SS	104 °F	20 ft.	Dayton	11C687	**11C687**
	47 gpm	2 in FNPT	34 ft	—	8"	110V AC	PP	Plastic	104 °F	9 ft.	Zoeller	46-0005	**6JGV8**
	64 gpm	2 in FNPT	36 ft	¼"	9⅛"	110V AC	SS	304 SS	104 °F	20 ft.	Dayton	1XHV4	**1XHV4**
	54 gpm	2 in MNPT	37 ft	³⁄₁₆"	7⁵⁄₁₆"	110V AC	SS	RBR	120 °F	20 ft.	Little Giant	620240	**5EAF8**
	46 gpm	2 in MNPT	39 ft	¼"	10¹⁄₁₆"	110V AC	AL	UR	104 °F	20 ft.	Tsurumi	HS2.4S-62	**38H471**
⅔	57 gpm	2 in MNPT	39 ft	¼"	7⅜"	110V AC	AL	UR	104 °F	32 ft.	Tsurumi	LB-480	**38H466**
	57 gpm	2 in MNPT	39 ft	¼"	8¼"	110V AC	SS	UR	104 °F	32 ft.	Tsurumi	LSR2.4S-61	**38H476**
⁷⁄₁₀	—	2 in	38 ft	¼"	7³⁄₁₆"	110V AC	SS	PU	104 °F	50 ft.	Dayton	4LA45	**4LA45**
¾	52 gpm	2 in MNPT	43 ft	⅜"	10⅜"	110V AC	AL	HC	104 °F	32 ft.	Tsurumi	HSD2.55S-62	**38H475**
1	82 gpm	2 in FNPT	49 ft	⅜"	10⅜"	110V AC	SS	304 SS	104 °F	20 ft.	Dayton	1XHV5	**1XHV5**
	76 gpm	2 in MNPT	52 ft	¼"	7¼"	110V AC	SS	DI	120 °F	20 ft.	Little Giant	620241	**5EAF9**
	77 gpm	2 in MNPT	59 ft	¼"	7⁹⁄₁₆"	110V AC	AL	UR	104 °F	50 ft.	Tsurumi	LB-800	**38H468**
	60 gpm	3 in MNPT	62 ft	¼"	12⁷⁄₁₆"	110V AC	AL	UR	104 °F	32 ft.	Tsurumi	HS3.75S-62	**38H473**
1¼	—	2 in	50 ft	¼"	7³⁄₁₆"	110V AC	SS	PU	104 °F	50 ft.	Dayton	4LA43	**4LA43**
2	108 gpm	3 in MNPT	69 ft	¼"	7⅜"	110V AC	AL	HC	104 °F	50 ft.	Tsurumi	LB-1500	**38H470**
	108 gpm	3 in MNPT	69 ft	⁵⁄₁₆"	9⁷⁄₁₆"	110V AC	AL	DI	104 °F	32 ft.	Tsurumi	NK2-15	**38H477**
Sensor													
¼	12 gpm	1 ⅛ in	15 ft	³⁄₃₂"	4"	110V AC	VT	GFN	104 °F	8 ft.	Rule	A53S	**3P993**
	22 gpm	1 ¼ in MNPT	20 ft	³⁄₃₂"	6"	110V AC	TPL	TPL	104 °F	9 ft.	Dayton	2VAN7	**2VAN7**
	22 gpm	1 ¼ in MNPT	20 ft	³⁄₃₂"	6"	110V AC	TPL	TPL	104 °F	50 ft.	Dayton	40GT80	**40GT80**
⅔	57 gpm	2 in MNPT	39 ft	¼"	8¾"	110V AC	AL	UR	104 °F	32 ft.	Tsurumi	LB-480A	**38H467**
1	77 gpm	2 in MNPT	59 ft	¼"	8¾"	110V AC	AL	UR	104 °F	50 ft.	Tsurumi	LB-800A	**38H469**
Tether Float													
½	46 gpm	2 in MNPT	39 ft	¼"	13½"	110V AC	AL	UR	104 °F	20 ft.	Tsurumi	HSZ2.4S-62	**38H472**
1	60 gpm	3 in MNPT	62 ft	¼"	13½"	110V AC	AL	UR	104 °F	32 ft.	Tsurumi	HSZ3.75S-61	**38H474**
Vertical Float													
⅓	35 gpm	1 ½ in NPT	25 ft	¼"	—	—	CI	TPL	140 °F	—	Liberty Pumps	S37	**56KD65**
200 to 240 Volt Plug-In													
No Switch Included													
1¼	—	2 in	50 ft	¼"	7³⁄₁₆"	220V AC	SS	PU	104 °F	50 ft.	Dayton	4LA44	**4LA44**
3	200 gpm	3 in MNPT	59 ft	⁵⁄₁₆"	9¼"	220V AC	AL	HC	104 °F	32 ft.	Tsurumi	NK3-22L	**38H481**
	126 gpm	3 in MNPT	85 ft	⁵⁄₁₆"	9⁷⁄₁₆"	220V AC	AL	DI	104 °F	32 ft.	Tsurumi	NK4-22	**38H479**
Vehicle Battery-Powered													
No Switch Included													
—	67 gpm	3 in	22 ft	¹⁄₁₆"	—	12V DC	POM	N	—	25 ft.	Rule	EV8000-100	**6PWA8**
⅓	34 gpm	1 ½ in FNPT	25 ft	⅜"	10"	12V DC	AL	CI	150 °F	30 ft.	Sandpiper	SPA1 1/2E3.	**6WY63**

** 304 SS = 304 Stainless Steel, ABS = acrylonitrile butadiene styrene, AL = aluminum, CI = cast iron, DI = ductile iron, GFN = glass-filled nylon, HC = high chrome, N = nylon, PA = polyamide, POM = acetal, PP = polypropylene, PU = polyurethane, RBR = rubber, SS = stainless steel, TPL = thermoplastic, UR = urethane rubber, VT = Valox.*

Engine-Driven Utility Pumps

Semi-open pumps are designed for landscaping, construction sites, golf courses, industrial applications, and any dewatering projects.

Type	Includes	For Use With	Item No.
Seal Kit			
Buna	1 Check Valve, 1 Mechanical Seal, 2 O-rings/Gaskets, 2 Plug Sets, 3 Adjusting Washer	11G226	**24D040**
	1 Check Valve, 1 Mechanical Seal, 2 Plug Sets, 3 Adjusting Washer, 3 O-rings/Gaskets	11G229 and 6CGH3	**24D042**
		24D038	**24D048**
		11G235, 13T387, 24D039	**24D049**
		6CGH2	**24D053**

6CGH3

24D038

Engine Brand	Engine\ Motor Type	Engine Size	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Mechanical Seal*	Solids Handling Cap.	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Item No.
General Purpose															
Koshin	Gas	136 cc	1½" NPT	2.85 qt	AL	CI	Buna N, CRB/ CMC, SS	⅛"	90	82	55	33	141.0 ft	26 ft	**6CGH1**
	Gas	179 cc	2" NPT	3.8 qt	AL	CI		⅛"	156	132	92	—	90.0 ft	26 ft	**6CGH2**
	Gas	179 cc	3" NPT	3.8 qt	AL	CI		⅛"	264	227	158	—	90.0 ft	26 ft	**6CGH3**
Semi-Trash															
Koshin K180	Gas	179 cc	2" NPT	3.8 qt	AL	SG Ductile	SiC, Buna N	¾"	145.8	128.6	91.7	—	85.0 ft	26 ft	**24D038**
	Gas	179 cc	3" NPT	3.8 qt	AL	SG Ductile		¾"	222	185.9	90.6	—	85.0 ft	26 ft	**24D039**

** AL = aluminum, CI = cast iron, CRB/CMC = carbon ceramic, SG = spheroidal graphite, SiC = silicone carbide, SS = stainless steel.*

HONDA PUMPS

Engine-Driven Utility Pumps

Powerful 4-stroke, air-cooled, overhead valve (OHV) engine runs on regular gasoline—no need to mix with oil. Easy to prime and start. Pumps are suitable for a variety of water transfer applications. 6DLY4 to 6DLY6 are designed for jobsites and applications where high-volume trash water capacity is needed.

6DLY8

6DLY4

6DLY6

Engine Brand	Engine Size	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal	Solids Handling Cap.	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max Suction Lift	Item No.
General Purpose															
Honda	118 cc	2" NPT	0.53 gal	AL	CI	Open	Silicon Carbide	—	141	116	67	8	105.0 ft	26 ft	**6DLY8**
	163 cc	3" NPT	0.82 gal	CI	CI	Open	Silicon Carbide	—	253	197	90	—	85.0 ft	26 ft	**6DLY9**
	49 cc	1½" NPT	0.2 gal	AL	AL	—	Carbon, Ceramic	—	65	26	26	26	121.0 ft	26 ft	**45KM64**
Trash															
Honda	163 cc	2" NPT	0.82 gal	CI	CI	Trash	Silicon Carbide	13⁄16"	174	149	98	25	85.0 ft	26 ft	**6DLY4**
	270 cc	3" NPT	1.4 gal	CI	CI	Trash	Silicon Carbide	1 1⁄16"	310	267	158	—	82.0 ft	26 ft	**6DLY5**
	389 cc	4" NPT	1.6 gal	CI	CI	Trash	Silicon Carbide	1 1⁄16"	413	322	164	—	82.0 ft	26 ft	**6DLY6**

** AL = aluminum, CI = cast iron.*

Emergency Kits—Engine-Driven Utility Pumps

Dayton®

All include Dayton sewage trash pump, 20-ft. suction hose, 50-ft. discharge hose(s), connectors, and strainer.

Engine Size	Outlet	Tank Cap.	Solids Handling Capacity	GPM of Water @ 10 ft. of Head	GPM of Water @ 30 ft. of Head	GPM of Water @ 60 ft. of Head	Max. Head	Kit Includes Pump No.	CAM AND GROOVE HOSE CONNECTION: 1 Discharge Hose Item No.	CAM AND GROOVE HOSE CONNECTION: 2 Discharge Hoses Item No.	NPSM HOSE CONNECTION: 1 Discharge Hose Item No.	NPSM HOSE CONNECTION: 2 Discharge Hoses Item No.
163 cc	2" Cam and Groove	0.95 gal	13⁄16"	165	148	90	88.0 ft	11G237	**7AJ17**	**7AJ20**	—	—
	2" NPSM	0.95 gal	13⁄16"	165	148	90	88.0 ft	11G237	—	—	**7AJ11**	**7AJ14**
242 cc	3" Cam and Groove	5.6 qt	1⅛"	320	280	170	89 ft	11G238	**7AJ18**	—	—	—
	3" NPSM	5.6 qt	1⅛"	320	280	170	89 ft	11G238	—	—	**7AJ12**	**7AJ15**
	3" NPT	5.6 qt	1¼"	335	306	224	89 ft	11G238	—	**7AJ21**	—	—
337 cc	4" Cam and Groove	1.72 gal	1⅛"	430	360	150	80.0 ft	11G239	**7AJ19**	**7AJ22**	—	—
	4" NPSM	1.73 gal	1⅛"	430	360	150	80.0 ft	11G239	—	—	**7AJ13**	—
	4" NPSM	1.72 gal	1⅛"	430	360	150	80.0 ft	11G239	—	—	—	**7AJ16**

7AJ11

Dayton®

Suction Strainers and Wheel Kit

Suction Strainers—Prevent large particles of sediment, sewage, mud, or solids from entering suction port of drainage pumps. 1P931 has openings to fit trash and diaphragm pumps.

- 16-ga. steel with "zinc with clear" plating

Wheel Kit—Highly portable wheel kit has double ball bearings on airless tires that can't be punctured. Wide-angle handlebars are made from large-dia. metal tubing. Adjustable sliding axle system.

Note: Pump sold separately.

5RWL9

1P812

5RWN2

Inlet	Opening	Dia.	Brand	Item No.
Top Round Perforations, Steel				
1½ in NPSM	⅜"	9½"	—	**5RWL9**
2 in NPSM	⅜"	9½"	—	**5RWN0**
3 in NPSM	⅜"	12"	—	**5RWN1**
Side Square Perforations, Steel				
3 in FNPT	1½ x 1½"	6"	Dayton	**1P931**
4 in FNPT	1½ x 1½"	7"	Dayton	**2EHE8**
Side Round Perforations, Steel				
1 in NPSM	3⁄16"	1⅝"	—	**5RWJ8**
1½ in FNPT	⅜"	5"	Dayton	**1P689**
1½ in NPSM	⅜"	2¼"	—	**5RWK0**
2" NPT	⅜"	6"	Dayton	**1P690**
2 in NPSM	⅜"	2¾"	—	**5RWK2**
2½ in NPSM	⅜"	3⅜"	—	**5RWK4**
3 in FNPT	⅜"	7"	Dayton	**1P812**
3 in NPSM	⅜"	4"	—	**5RWK6**
4 in NPSM	⅜"	7"	—	**5RWK7**

Inlet	Opening	Dia.	Brand	Item No.
Side Round Perforations, Stainless Steel				
2 in NPSM	⅜"	6"	—	**5RWN9**
3 in NPSM	⅜"	7"	—	**5RWP0**
Bottom Round Perforations, Steel				
¾ in NPSM	3⁄16"	4"	—	**5RWN2**
1 in NPSM	3⁄16"	4"	—	**5RWN4**
1½ in NPSM	⅜"	9½"	—	**5RWN5**
2 in NPSM	⅜"	9½"	—	**5RWN6**

Description	Fits	Brand	Item No.
Wheel Kit			
12" Solid Rubber Wheels	1½" General Purpose Engine Driven Pumps to 4" Engine Driven Trash Pumps	—	**6CGH7**

6CGH7

Portable Engine-Driven Pumps

GENERAL PURPOSE

Self-priming engines run cooler and cleaner for greater fuel efficiency. Provide clean water transfer and handle solids up to ½" dia.

AGRICULTURAL

Self-prime 12 to 15 ft.

Polypropylene—With stainless steel components, replaceable volutes, and O-ring casing seals.

Cast-Iron—With 2 cast-iron nipples, gasket casing seals, steel bases, and T-handles. Mechanical seals have ceramic seats. Clog-resistant impeller.

HIGH-PRESSURE

Dayton—With O-ring casing seals, clog-resistant single-stage impeller, cast-iron volute/diffusers, and 2 cast-iron pipe nipples. Liquid temp. range: 40° to 180°F.

DEWATERING

Compact, heavy-duty models feature a rolled steel frame that helps protect the pump and engine, and eases handling and transport.

CENTRIFUGAL PUMP HEADS

Self-priming pumps have a temp. range from 32° to 150°F.

Pump Heads have ¾" shaft. 21C981 is complete and ready for attachment to gasoline engine; requires straight keyed shaft. 21C982 has a ¾" flexible coupling. 21C983 has a ¾" straight shaft coupling.

6ANP1

21C980

Engine Brand	Engine/ Motor Type	Engine Size	Inlet	Outlet	Tank Cap.	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Brand	Item No.
General Purpose																	
Honda GX25 OHV	Gas	25 cc	1 in NPT	1" NPT	0.58 qt	AL	AL	Semi-Open	Ceramic, Buna N	29	25	19	9	106.0 ft	26 ft	Dayton	**11G226**
Honda GX120 OHV	Gas	118 cc	2 in NPT	2" NPT	2.11 qt	AL	CI	Semi-Open	Ceramic, Buna N	163	137	79	—	98.0 ft	26 ft	Dayton	**11G228**
Honda GX160 OHV	Gas	163 cc	3 in NPT	3" NPT	3.28 qt	AL	CI	Semi-Open	Ceramic, Buna N	265	231	164	—	85.0 ft	26 ft	Dayton	**11G229**
Honda GX240 OHV	Gas	242 cc	4 in NPT	4" NPT	5.6 qt	AL	CI	Semi-Open	Ceramic, Buna N	363	318	216	29	102.0 ft	26 ft	Dayton	**11G230**
Agricultural																	
Briggs & Stratton	Gas	127 cc	2 in FNPT	2" NPT	0.75 gal	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft	12 ft	Banjo	**6ANP1**
Briggs & Stratton	Gas	127 cc	2 in FNPT	2" NPT	0.75 gal	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft	12 ft	Banjo	**6ANP4**
Honda	Gas	160 cc	2 in FNPT	2" NPT	0.82 gal	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft	12 ft	Banjo	**6ANP2**
Honda	Gas	160 cc	2 in FNPT	2" NPT	0.82 gal	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft	12 ft	Banjo	**6ANP5**
Briggs & Stratton	Gas	208 cc	2 in FNPT	2" NPT	1.0 gal	PP	PP	Open	CRB/CMC	200	180	140	107	120.0 ft	12 ft	Banjo	**6ANP3**
Briggs & Stratton	Gas	208 cc	2 in FNPT	2" NPT	1.0 gal	CI	CI	Open	CRB/CMC	165	135	80	35	100.0 ft	12 ft	Banjo	**6ANP6**
High Pressure																	
Honda GX120 OHV	Gas	163 cc	2 in NPT	1½" NPT	3.28 qt	AL	CI	Semi-Open	Ceramic, Buna N	104	99	89	74	164.0 ft	26 ft	Dayton	**11G231**
Honda GX160 OHV	Gas	163 cc	2 in NPT	2" NPT	3.28 qt	AL	CI	Semi-Open	Ceramic, Buna N	113	104	91	74	187.0 ft	26 ft	Dayton	**11G232**
Dewatering																	
Honda	Gas	119 cc	2 in MNPT	2" NPT	0.66 gal	AL, CI	CI	Semi Open	Silicon Carbide	125	120	87	25	115.0 ft	26 ft	Tsurumi	**20LR08**
Honda	Gas	242 cc	4 in MNPT	4" NPT	1.59 gal	AL, CI	CI	Semi Open	Silicon Carbide	432	342	175	45	95.0 ft	26 ft	Tsurumi	**20LR10**

Engine/ Motor Type	Inlet	Outlet	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	GPM of Water @ Total ft. of Head 10	30	Max. Head	Max. Suction Lift	Brand	Item No.
Centrifugal Pump Head												
Gas	2 in NPT	2" NPT	PP	PP	Open	EPDM, CRB/CMC	200	175	50 ft	15 ft.	Banjo	**21C980**
Gas	2 in NPT	2" NPT	CI	CI	Open	EPDM, CRB/CMC	150	130	50 ft	15 ft.	Banjo	**21C981**
Electric	2 in NPT	2" NPT	PP	PP	Open	EPDM, CRB/CMC	200	175	50 ft	15 ft.	Banjo	**21C982**
Electric	2 in NPT	2" NPT	CI	CI	Open	EPDM, CRB/CMC	150	130	50 ft	15 ft.	Banjo	**21C983**

Type	For Use With	Includes	Brand	Item No.
Seal Kit				
Buna	11G230 and 11G236	1 Check Valve, 1 Mechanical Seal, 2 Plug Sets, 3 Adjusting Washer, 3 O-rings/Gaskets	—	**24D043**
	11G231		—	**24D044**
	11G232		—	**24D045**
	11G233		—	**24D046**

** AL = aluminum, CI = cast-iron, CRB/CMC = carbon/ceramic, EPDM = ethylene propylene diene monomer rubber, PP = polypropylene.*

Portable Engine-Driven Solids-Handling Pumps

Provide fast, efficient liquid transfer and dewatering. Can be used in remote locations, above or below water level.

Trash—Feature clog-resistant impellers and can easily handle water containing stones, sticks, and other solids, up to 25% by volume (including sewage and wastewater). 3P653 and 3P654 include 2 pipe nipples and a suction strainer.

Semi-Trash—Models feature clog-resistant impellers and are designed for dirtier water applications. Durable impellers are abrasive-resistant for long life and reduced maintenance.

Dewatering—Designed with a silicon carbide mechanical seal for long life. Pump and engine are mounted to a cage frame on rubber vibration cushions to help buffer stress and wear.

11G238

11G235

Engine Brand	Engine/ Motor Type	Engine Size	Inlet	Outlet	Tank Capacity	Material of Construc.*	Impeller Material*	Impeller Type	Mechanical Seal*	Solids Handling Capacity	GPM of Water @ Total ft. of Head 10	30	60	90	Max. Head	Max. Suction Lift	Brand	Item No.
Trash																		
Honda GX160 OHV	Gas	163 cc	2 in NPT	2" NPT	3.28 qt	AL	High Chrome	Semi-Open	SiC/Buna N	1"	182	164	125	37	98.0 ft	26 ft	Dayton	**11G237**
Honda GX240 OHV	Gas	242 cc	3 in NPT	3" NPT	5.6 qt	AL	High Chrome	Semi-Open	SiC/Buna N	1¼"	335	306	224	—	89.0 ft	26 ft	Dayton	**11G238**
Honda GX390 OHV E-Start	Gas	389 cc	4 in MNPT	4" NPT	2.25 gal	AL	CI	Trash	SiC, Viton	2"	530	520	325	120	102.0 ft	20 ft	Dayton	**3P653**
Honda GX390 OHV	Gas	389 cc	4 in MNPT	4" NPT	1.6 gal	AL	CI	Trash	SiC, Viton	2"	530	520	325	120	102.0 ft	20 ft	Dayton	**3P654**
Honda GX340 OHV	Gas	337 cc	4 in NPT	4" NPT	6.45 qt	AL	High Chrome	Semi-Open	SiC/Buna N	2"	400	339	147	—	82.0 ft	26 ft	Dayton	**11G239**
Semi-Trash																		
Honda GX120 OHV	Gas	118 cc	2 in NPT	2" NPT	2.11 qt	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	148	124	82	25	95.0 ft	26 ft	Dayton	**11G234**
Honda GX160 OHV	Gas	163 cc	3 in NPT	3" NPT	3.28 qt	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	226	194	115	—	85.0 ft	26 ft	Dayton	**11G235**
Honda GX240 OHV	Gas	242 cc	4 in NPT	4" NPT	5.6 qt	AL	SG Ductile	Semi-Open	SiC/Buna N	¾"	363	318	216	15	92.0 ft	26 ft	Dayton	**11G236**
Dewatering																		
Honda	Gas	163 cc	2 in MNPT	2" NPT	0.95 gal	AL, CI	Chrome Iron	Semi Open	SiC	1"	180	150	75	—	90.0 ft	26 ft	Tsurumi	**20LR11**
Honda	Gas	242 cc	3 in MNPT	3" NPT	1.6 gal	AL, CI	Chrome Iron	Semi Open	SiC	1½"	350	290	180	20	90.0 ft	26 ft	Tsurumi	**20LR12**
Honda	Gas	337 cc	4 in MNPT	4" NPT	1.7 gal	AL, CI	Chrome Iron	Semi Open	SiC	1½"	520	400	225	20	95.0 ft	26 ft	Tsurumi	**20LR13**

Type	For Use With	Includes	Brand	Item No.
Seal Assembly				
Viton/Silicone Carbide	3P609, 3P653, 3P654, 3P955	Seal and Seat	Dayton	**2UV43**
Seal Kit				
Buna	11G234 and 13T386	1 Check Valve, 1 Mechanical Seal, 2 Plug Sets, 3 Adjusting Washer, 3 O-rings/Gaskets	—	**24D047**
	11G235, 13T387, 24D039		—	**24D049**
	11G237	1 Check Valve, 1 Mechanical Seal, 2 Plug Sets, 3 Adjusting Washer, 5 O-rings/Gaskets	—	**24D050**
	11G238		—	**24D051**
	11G239		—	**24D052**

** AL = aluminum, CI = cast iron, SG = spheroidal graphite, SiC = silicon carbide.*

Portable Diaphragm Pumps

- Liquid temp. range: 40° to 180°F
- Pump fluids with abrasive solids from ⅜" to 1⅝"
- Self-priming to 25 ft.

Extra-heavy-duty pumps easily handle fluids mixed with sand, silt, mud, sewage, and waste. Integrated tubular handle and wheels offer easy mobility to pump out ponds, trenches, excavations, and septic tanks. Pumps have aluminum casing, thermoplastic rubber diaphragm, and neoprene check valves. Heavy-duty guard covers moving parts. Suction line strainer and 3" NPT suction and discharge pipe nipples included.

Electric Motor—Single-phase TEFC capacitor-start, capacitor-run motor. Equipped with NEMA 56C frame, ball bearings, keyed shaft, and weatherproof On/Off switch mounted on conduit box. For use in clean, dry locations only.

Gas Engine—Meets California emission codes. Features manual start, electronic ignition, and muffler for low-noise operation. For use in well-ventilated areas only.

3P682

2UV48

4TA88

2UV52

Rated Voltage	Tank Cap.	Pump Mechanism	Discharge	HP	Flow Rate @ Total ft. of Head 10	Flow Rate @ Total ft. of Head 20	Max. Head	Item No.
Electric Motor								
115V/14AMP" , "230V/7AMP"	—	Diaphragm	3 in FNPT	1 ½ hp	58.0 gpm	42.7 gpm	25.0 ft	**3P682**
Gas Engine								
—	0.82 gal	Diaphragm	3 in FNPT	5 ½ hp	75.0 gpm	60.0 gpm	25.0 ft	**4TA88**

Item	Type	For Use With	Item No.
Replacement Parts			
Diaphragm	Thermoplastic	3P613, 3P681, 3P682, 4TA88	**2UV48**
Flap Valve Assembly	Polyurethane	3P613, 3P681, 3P682, 4TA88	**2UV52**

Hydrostatic Test Pumps

Hand-Operated—Lightweight and suitable for testing water lines and pressure testing boiler, solar, small tank, and sprinkler systems. Include shutoff valve and outlet hose. 6GDU9 has 2.6-gal. integral tank.

Pneumatic—Pumps have an automatic pressure regulator with inlet bypass and an inline strainer with stainless steel mesh filter and clear bowl. High-pressure ball valve and fittings are built-in.

Electric and Gasoline—Ideal for certifying the integrity of newly installed commercial sprinkler systems, pressure vessels, water lines, and sewer lines. Include 10-ft. pressure output hose, except 45EJ59.

Electric models have a built-in pressure regulator. 6GDV7 and 6GDV9 have a full-perimeter cage.

Gas models have an inlet strainer and a 2-wheeled cart with pneumatic wheels. Models also have an automatic bypass and quick-disconnect fittings for inlet and discharge hoses, except 45EJ64. 6GDV1 and 6GDV2 can handle a 10% chlorine solution. Include 10-ft. suction hose.

6GDU4

44A746

45EJ59

Max. Pressure (psi)	Inlet	Outlet	Mfr. Model	Item No.
Hand Operated Hydrostatic Test Pump				
300 psi	¾ in Female GH	¼ in MNPT From 10 ft Output Hose	29200	**6GDU4**
870 psi	2.6 gal Integral Tank	¼ in MNPT From 10 ft Output Hose	29900	**6GDU9**
1,000 psi	¾ in Female GH	¼ in MNPT From 10 ft Output Hose	29201	**6GDU5**

Type	Inlet Hose	Outlet	GPM	Max. Pressure	Mfr. Model	Item No.
Pneumatic Test Pump						
Reciprocating Plunger	¾ in GHT¾ in	½ in NPT	0.5 gpm	1,500 psi	32150	**44A746**
	¾ in GHT¾ in	½ in NPT	0.5 gpm	3,000 psi	32300	**44A747**
Hydrostatic Test Pump						
Reciprocating Pump	¾ in Female GHT	¼ in MNPT	1 gpm	10,000 psi	32450	**45EJ62**

Type	HP	Inlet	Outlet	Engine Brand	Engine RPM	Phase	Voltage	GPM	Max. Pressure	Mfr. Model	Item No.
Electric											
Triplex Piston, Positive Displacement	1 ½	⅜ in NPT	⅜ in NPT	—	3,450 RPM	1	115V	2.2 gpm	1,000 psi	47100	**45EJ59**
	1 ½	⅜ in NPT	⅜ in NPT	—	3,450 RPM	1	200V	1.1 gpm	2,000 psi	47102	**45EJ60**
Twin Piston, Positive Displacement	½	¾ in Female GHT	9/16 in-18 JCIF Male	—	1,725 RPM	1	115/230V	4 gpm	300 psi	39300	**6GDV5**
	1	¾ in Female GHT	½ in FNPT Swivel	—	1,725 RPM	1	115/230V	3 gpm	500 psi	35100	**6GDV7**
	1	¾ in Female GHT	½ in FNPT Swivel	—	1,725 RPM	1	115/230V	1 gpm	1,000 psi	33100	**6GDV9**
Gasoline											
Roller Pump, Variable Displacement	5 ½	¾ in	¾ in	Honda	600 RPM	—	—	5.4 gpm	300 psi	463010	**45EJ66**
	6 ½	¾ in	¾ in	5.4	600 RPM	—	—	5.4 gpm	300 psi	46301	**45EJ65**
Triple Diaphragm, Positive Displacement	5 ½	¾ in Female GHT	¾ in MNPT	Honda	550 RPM	—	—	10 gpm	500 psi	465010	**6GDV2**
	6 ½	¾ in Female GHT	¾ in MNPT	B&S	550 RPM	—	—	10 gpm	500 psi	46501	**6GDV1**
Triple Diaphragm Pump, Positive Displacement	5 ½	1 in	¾ in NPT	Honda	550 RPM	—	—	15 gpm	300 psi	466000	**45EJ70**
Triplex Piston, Positive Displacement	8 ½	½ in NPT	⅜ in NPT	Honda	—	—	—	3.5 gpm	3,000 psi	373080	**45EJ64**
Twin Piston Pump, Positive Displacement	5 ½	¾ in NPT	¾ in NPT	Honda	600 RPM	—	—	10 gpm	400 psi	464530	**45EJ68**
	6 ½	¾ in NPT	¾ in NPT	B&S	600 RPM	—	—	10 gpm	400 psi	46453	**45EJ67**

For Use With	Includes	Mfr. Model	Item No.
Rebuild Kit			
29201, Mfr. No. 29200	(2) ⅜ in Stainless Steel Balls, (2) O-Rings, 5/16 in Stainless Steel Ball, Overload Spring, Screen Retainer	29250	**6GDU6**
6GDU9	(4) O-Rings	29950	**6GDV0**
6GDV1, 6GDV2	(3) Piston Diaphragms, (6) O-Rings	36345	**6GDV3**
6GDV7	(2) Piston Cap Screws, (2) Rubber Cups, (2) Seal Rings, (2) Washers, (4) O-Rings	36361	**6GDV8**
6GDV9	(2) Back-Up Rings, (2) O-Rings, (2) Seal Rings, (4) U-Cups	36389	**6GDW0**

Description	Connec. Size (in.)	Mfr. Model	Item No.
Accessories			
Output Hose, For Use With 29200, 29201, 29900, 33100, 35100, Mfr. No. 39300	9/16-18 JICF Female Swivel x ⅜ MNPT	3917	**19C695**
Suction Hose, For Use With 465010, Mfr. No. 46501	¾ in Male Garden Hose	34550	**6GDU8**

Fire Hose Testers

- Can test single or multiple lines; independently controlled
- Mounted on swivel casters for easy mobility
- Max. pressure: 500 psi
- For municipal fire hose, fire hose, and nozzles, go to pages 1946, 1947, and 1948.

Safely test fire hose lines to help prevent using damaged lines. Meet NFPA guidelines, except 45EJ63.

6GDW1

Type	Inlet	Outlet	L	W	H	Mfr. Model	Item No.
2-Outlet, Positive Displacement	2½ in NST Swivel Female Quick Fill	(2) 2½ in NST Male Connection With Individual Ball Valves	38 in	30 in	24 in	363020	**6GDW1**
4-Outlet, Positive Displacement	2½ in NST Swivel Female Quick Fill	(4) 2½ in NST Male Connection With Individual Ball Valves	38 in	30 in	24 in	363040	**6GDW2**
Piston Pump, Positive Displacement	2½ in NST Female Swivel Coupling	2½ in NST Male Coupling	40 in	48 in	32 in	363060	**45EJ63**

1P322

Compact Submersible Centrifugal Pumps

Little GIANT | Dayton

Great for fountains, statues, water gardens, coolant systems, evaporative coolers, wet saws, and air conditioners. All pumps are continuous duty, except 2HNN9, 2HNP1 and 1P521 are intermittent duty.

Mild Corrosive Applications—Engineered thermoplastic motor housing handles water with higher mineral content. Small dimensions allow use in limited space. 2P495, 4RL01, 2P016, and 2P017 have glass-filled nylon housings and are oil filled.

Water and Mild Fluid Applications—Can be operated in open air, in-line, or submerged. 1P521 can pump water or machine oils when submerged, but should only be used in-line, not submerged, when pumping weak acids.

Water Applications—Pumps have epoxy-coated, cast-aluminum motor housing (except 1P321 is aluminum only) for added protection and oil-filled motors for extra cooling and durability.

HP	Features	Voltage	Full Load Amps	Housing Material*	Impeller Material*	Seal Material*	Cord Length	Inlet Type	Outlet	GPM of Water @ Total Ft. of Head 1	5	10	Max. Head	L	W	H	Brand	Mfr. Model	Item No.
Mild Corrosive Applications																			
1/160 hp	Submersible	115V	0.5 A	N	N	Nitrile	6 ft	Screened	¼ in (M)NPT	2	—	—	4.6 ft	4 in	3 in	4 in	Little Giant	523003	**2P495**
1/160 hp	Submersible	115V	0.5 A	N	N	Nitrile	15 ft	Screened	¼ in (M)NPT	2	—	—	4.6 ft	4 in	3 in	4 in	Little Giant	523375	**4RL01**
1/150 hp	—	115	—	N	N	Viton	6 ft	Screened	¼ in (M)NPT	—	2.5	—	10.2 ft	4 ¼ in	4 ¼ in	4 9/16 in	Little Giant	526003	**2P016**
1/125 hp	Epoxy-Encapsulated, Non-Potable Submersible Use	115V	0.6 A	PP	PP	Nitrile	15 ft	Screened	¼ in (M)NPT	3	1.7	—	7 ft	4 15/16 in	2 ¾ in	3 ½ in	Little Giant	566608	**4RK97**
1/125 hp	Submersible	115V	0.6 A	PP	PP	Nitrile	6 ft	Screened	¼ in (M)NPT	3	1.7	—	7 ft	3 ½ in	2 ¾ in	3 ⅝ in	Little Giant	518200	**3P734**
1/125 hp	—	115V	1.3 A	POM	POM	Viton	6 ft	Screened	¼ in (M)NPT	4	3	1.9	—	4 17/32 in	2 ⅝ in	4 27/32 in	Dayton	2HNN4	**2HNN4**
1/125 hp	—	230V	0.64 A	POM	POM	Viton	6 ft	Screened	¼ in (M)NPT	4	3.3	2.0	—	4 17/32 in	2 ⅝ in	4 27/32 in	Dayton	2HNN5	**2HNN5**
1/70 hp	—	115V	1.5 A	POM	POM	Viton	6 ft	Screened	⅜ in (M)NPT	6	5.1	4	—	4 ⅝ in	2 ⅞ in	5 ¼ in	Dayton	2HNN7	**2HNN7**
1/70 hp	—	115V	1.5 A	POM	POM	Viton	20 ft	Screened	⅜ in (M)NPT	6	5.1	4	—	4 ⅝ in	2 ⅞ in	5 ¼ in	Dayton	2HNN6	**2HNN6**
1/70 hp	—	230V	0.8 A	POM	POM	Viton	6 ft	Screened	⅜ in (M)NPT	6	5.6	4.1	—	4 ⅝ in	2 ⅞ in	5 ¼ in	Dayton	2HNN8	**2HNN8**
1/50 hp	—	115V	1.3 A	POM	POM	Viton	6 ft	Screened	¼ in (M)NPT	4	3	1.9	—	4 17/32 in	2 ⅝ in	4 27/32 in	Dayton	2HNN3	**2HNN3**
1/40 hp	Submersible	115V	0.8 A	N	N	Viton	6 ft	Hooded	¼ in (M)NPT	5	4	2.2	12.2 ft	4 17/32 in	2 ⅝ in	4 27/32 in	Little Giant	518400	**4RK93**
1/40 hp	—	115	—	N	N	Viton	6 ft	Screened	¼ in (M)NPT	—	4.5	2.1	12.3 ft	4 ¼ in	4 ¼ in	4 9/16 in	Little Giant	527003	**2P017**
1/30 hp	—	115V	2.73 A	POM	POM	Viton	6 ft	Screened	½ in (M)NPT	9	7.8	6.6	—	5 3/32 in	4 ¼ in	4 9/32 in	Dayton	2HNN9	**2HNN9**
1/30 hp	—	230V	1.4 A	POM	POM	Viton	6 ft	Screened	½ in (M)NPT	9	7.8	6.6	—	5 3/32 in	4 ¼ in	4 9/32 in	Dayton	2HNP1	**2HNP1**
1/28 hp	Non-Potable Submersible Use	115V	1.4 A	PP	N	Viton	6 ft	Smooth	⅜ in (M)NPT	8	6.6	3.4	13.4 ft	4 ⅝ in	2 ⅞ in	5 ¼ in	Little Giant	518600	**4RK94**
Water and Mild Fluid Applications																			
1/400 hp	—	115V	0.77 A	POM	POM	Viton	6 ft	Screened	¼ in (M)NPT	2	—	—	—	4 17/32 in	2 ⅝ in	4 27/32 in	Dayton	2HNN2	**2HNN2**
1/100 hp	Oil filled	115V	1.4 A	POM	Polyamide Fibre 56	Nitrile	6 ft	½ in NPT/Screen	¼ in (M)NPT	5	3.6	—	—	4 ¾ in	4 ⅞ in	4 ¾ in	Dayton	12U595	**12U595**
1/90 hp	Oil filled	115V	1.4 A	POM	Polyamide Fibre 56	Nitrile	6 ft	½ in NPT/Screen	¼ in (M)NPT	6.3	4	—	—	4 ¾ in	4 ⅞ in	4 ¾ in	Dayton	12U596	**12U596**
1/50 hp	Oil filled	115V	1.5 A	POM	Polyamide Fibre 56	Nitrile	6 ft	¾ in GHT/Screen	⅜ in (M)NPT	8.1	5.2	—	—	4 ¾ in	4 ⅞ in	4 ¾ in	Dayton	12U597	**12U597**
1/40 hp	submersible when pumping water or machine oils only.	115	—	AL	N	Viton	6 ft	⅜ in (F)NPT	¼ in (M)NPT	—	3.4	1.2	11.8 ft	5 ½ in	3 ½ in	4 ½ in	Little Giant	502303	**1P521**
1/10 hp	Oil filled, Screened	115V	5.2 A	Zinc Alloy	Zinc alloy	Nitrile	6 ft	¾ in GHT/Screen	¾ in (M)GHT	16.2	14.3	12.6	—	6 ⅞ in	4 ½ in	4 ⅞ in	Dayton	12U598	**12U598**
Water Applications																			
1/200 hp	Bottom Pump Inlet has Snap-Off Screen for Easy Cleaning	115V	1.1 A	PP	PP	Nitrile	18 ft	Smooth	¼ in (M)NPT	3	1.7	—	7 ft	4 ¼ in	4 ⅛ in	4 ¼ in	Little Giant	500500	**2P526**
1/200 hp	—	115V	1.1 A	PP	PP	Nitrile	6 ft	Smooth	¼ in (M)NPT	3	1.7	—	7 ft	4 ¼ in	4 ¼ in	4 ¼ in	Little Giant	500203	**1P939**
1/150 hp	In-line or Submersible	115V	1.1 A	N	N	Nitrile	6 ft	½ in (M)NPT	¼ in (M)NPT	3	2	—	7.4 ft	4 ½ in	4 ½ in	4 ⅝ in	Little Giant	501203	**3P733**
1/40 hp	In-line or Submersible	115V	1.7 A	N	N	Nitrile	15 ft	⅜ in (F)NPT	¼ in (M)NPT	5	3.4	1.2	11.8 ft	5 ½ in	3 ½ in	4 ¾ in	Little Giant	502375	**4RK85**
1/40 hp	Submersible	115V	1.7 A	N	N	Nitrile	6 ft	Hooded	¼ in (M)NPT	5	3.4	1.2	11.8 ft	5 ½ in	3 ½ in	4 ¾ in	Little Giant	502103	**1P321**
1/40 hp	In-line or Submersible	115V	1.7 A	N	N	Nitrile	6 ft	⅜ in (F)NPT	¼ in (M)NPT	5	3.4	1.2	11.8 ft	5 ½ in	3 ½ in	4 ¾ in	Little Giant	502203	**1P372**
1/40 hp	Oil Filled	230V	0.7 A	N	N	Nitrile	12 ft	⅜ in (F)NPT	¼ in (M)NPT	5	3.4	1.2	11.8 ft	5 ½ in	3 ½ in	4 ¾ in	Little Giant	502216	**4XK38**
1/15 hp	In-line or Submersible	115V	3.2 A	N	N	Viton	15 ft	½ in (F)NPT	½ in (M)NPT	8	5.6	3.5	17.3 ft	7 in	4 ½ in	5 ½ in	Little Giant	503375	**4RK86**
1/15 hp	In-line or Submersible	115V	3.2 A	N	N	Viton	6 ft	½ in (F)NPT	½ in (M)NPT	8	5.6	3.5	17.3 ft	7 in	4 ½ in	5 ½ in	Little Giant	503103	**1P323**
1/15 hp	In-line or Submersible	230V	1.4 A	N	N	Viton	12 ft	½ in (F)NPT	½ in (M)NPT	10	8.6	7.0	21 ft	7 in	4 ½ in	5 ½ in	Little Giant	503216	**4XK39**
1/12 hp	Submersible	115V	3.5 A	N	N	Viton	6 ft	¾ in (F)NPT	½ in (M)NPT	14	12.4	10.2	24.5 ft	7 in	4 ½ in	5 ½ in	Little Giant	504203	**1P322**

****AL = aluminum, POM = acetal, N = nylon, PP = polypropylene.***

4RK96

1P929

Submersible Parts Washer Pumps

Little GIANT

Suitable for circulating unheated Stoddard solvent, deodorized kerosenes, and other UL Classified parts-cleaning solutions. Viton seal on stainless steel motor shaft, nylon volute and impeller, and polyethylene integral strainer. ¼" MNPT discharge. 6-ft., 3-conductor SJTO cord outlet. 115V, 60 Hz thermally protected motor. Metal standpipe or conduit (not included) must be attached to builder's fitting to protect cord from solvent attack or damage. Go to Grainger.com for Coil Cleaning Kit 4RL09.

Polyester Housing—Pumps are epoxy encapsulated and housing is corrosion resistant. Suitable for pumping aqueous parts cleaning solutions up to 140°F.

Die-Cast Aluminum Housing—Motor housing is unpainted. Can pump aqueous parts cleaning solutions up to 100°F.

HP	Amps AC	Cap. GPH 1 ft.	Cap. GPH 3 ft.	Cap. GPH 5 ft.	Shut Off	PSI	L (in.)	Mfr. Model	Item No.
Polyester Housing									
1/125 hp	0.6 A	180 gph	135 gph	90 gph	6.0	2.8 psi	4 ¾ in	518971	**4RK95**
1/40 hp	0.8 A	300 gph	270 gph	240 gph	12.0	5.3 psi	5 ½ in	518550	**4RK96**
Die-Cast Aluminum Housing									
1/150 hp	1.1 A	205 gph	168 gph	120 gph	7.5	3.2 psi	4 ½ in	501020	**1P929**
1/40 hp	1.7 A	300 gph	255 gph	205 gph	11.8	5.1 psi	5 ½ in	502020	**4RK84**

Oase pond boss Little GIANT Dayton BARNES

Pond and Fountain Pumps

Corrosion-resistant materials.

POND AND WATERFALL PUMPS

Suitable for high flow, low head height, low pressure, and solids handling capability with fewer clogs. Pumps provide a high flow rate per watt for energy-efficient continuous operation, and are safe for fish and plants. Ideal for filtration systems, water courses, and waterfalls.

ABS—Continuous-duty water gardening pumps have a PSC motor in an ABS housing.

FOUNTAIN PUMPS

Suitable for high head pressure and high height clean water applications. Small fountain pumps can be used for bubbling stones, decorative, and statuary decorative fountains. Higher head pressure pumps are ideal for demanding fountain applications, larger water features, and spray nozzles. Pond Boss models have an automatic low water shut-off to help prevent pump damage.

Brass—Designed for fountains, coolant systems, evaporative coolers, and other liquid-moving applications. Continuous-duty PSC motor has thermal overload protection. Discharge rotates in 90° increments. Mechanical seal has Buna N, stainless steel and carbon/ceramic parts. Horizontal mount.

Note: Brass models are not safe for fish and plants.

Polypropylene—Oil-free direct-drive pumps produce greater starting torque and flow pressure for continuous operation. Innovative dual discharge for waterfall and stream effects. Noryl impeller and nitrile shaft seal. CSA Certified.

WATER GARDEN PUMPS

13L283 features a non-clogging vortex impeller and an auto reset thermal overload to help prevent pump and motor damage. Pump can pass solids up to 1 3/16" dia.

AUTO FILL VALVE

For permanent and temporary installations to automatically maintain water levels in a skimmer vault or other pond equipment. Includes ½" PVC slip and ¾" garden hose adapters.

4RK89

5RWG1

13L283

HP	Outlet	Voltage	GPH of Water @ Total ft. of Head 5	10	20	30	Max. Head	Cord Length	L	H	Brand	Mfr. Model	Item No.
Pond and Waterfall Pumps													
ABS													
5/64 hp	2 in (M)NPT	120V AC	1,200	0	—	—	9.5 ft	20 ft	11 in	5 ½ in	Oase	57620	**38EF21**
5/64 hp	2 in (M)NPT	120V AC	1,200	0	—	—	10 ft	20 ft	13 ½ in	6 ½ in	Oase	57499	**38EF22**
3/32 hp	2 in (M)NPT	120V AC	540	0	—	—	8 ft	20 ft	11 in	5 ½ in	Oase	40347	**38EF20**
3/32 hp	1½ in	120V AC	600	120	—	—	14 ft	16 ft	9 ¼ in	6 in	Pond Boss	52717	**38EF30**
1/8 hp	2 in (M)NPT	120V AC	1,740	300	—	—	11 ft	20 ft	11 in	9 in	Oase	57621	**38EF23**
9/64 hp	2 in (M)NPT	120V AC	1,620	240	—	—	11 ft	20 ft	13 ½ in	6 ½ in	Oase	57500	**38EF24**
9/64 hp	1½ in	120V AC	1,860	0	—	—	16 ft	16 ft	9 ¼ in	6 in	Pond Boss	52719	**38EF31**
3/16 hp	1.5 in MNPT	120V AC	2,095	961	96	—	14.9 ft	20 ft	10 in	7 9/16 in	Little Giant	566725	**36N479**
13/64 hp	2 in (M)NPT	120V AC	2,640	1,140	—	—	13 ft	20 ft	11 in	5 ½ in	Oase	57623	**38EF25**
7/32 hp	2 in (M)NPT	120V AC	2,520	900	—	—	13 ft	20 ft	13 ½ in	6 ½ in	Oase	57501	**38EF26**
17/64 hp	2 in	120V AC	2,880	1,560	120	—	18 ft	16 ft	10 ½ in	6 in	Pond Boss	52353	**38EF33**
9/32 hp	2 in MNPT	120V AC	2,897	1,922	—	—	18.8 ft	20 ft	13 ¼ in	8 in	Little Giant	566726	**36N480**
19/64 hp	1½ in	120V AC	1,980	1,380	—	—	20 ft	20 ft	14 in	7 in	Oase	57096	**38EF32**
3/8 hp	2 in	120V AC	3,540	1,680	320	—	22 ft	16 ft	10 ½ in	6 in	Pond Boss	52355	**38EF34**
7/8 hp	2 in MNPT	120V AC	5,929	4,664	2,042	—	28 ft	40 ft	13 ¼ in	8 in	Little Giant	566729	**36N481**
Fountain Pumps													
ABS													
1/64 hp	5/8 in	120V AC	—	—	—	—	4.1 ft	16 ft	3 ½ in	2 in	Pond Boss	52341	**38EF35**
1/64 hp	5/8 in	120V AC	—	—	—	—	4.1 ft	16 ft	3 ½ in	2 in	Pond Boss	52768	**38EF36** *
3/64 hp	5/8 in	120V AC	—	—	—	—	9.4 ft	16 ft	4 5/8 in	2 5/8 in	Pond Boss	52342	**38EF37**
3/64 hp	5/8 in	120V AC	—	—	—	—	9.4 ft	16 ft	4 5/8 in	2 5/8 in	Pond Boss	52343	**38EF38** *
Brass													
1/3 hp	1 in (F)NPT	120V AC	—	3,720	2,820	1,320	34 ft	12 ft	15 ¾ in	8 in	Dayton	5RWG1	**5RWG1**
½ hp	1 in (F)NPT	120V AC	—	4,680	3,840	2,760	43 ft	12 ft	15 ¾ in	8 in	Dayton	5RWG2	**5RWG2**
¾ hp	1 in (F)NPT	230V AC	—	5,880	5,100	4,080	50 ft	12 ft	15 ¾ in	8 in	Dayton	5RGV5	**5RGV5**
¾ hp	1 in (F)NPT	120V AC	—	5,880	5,100	4,080	50 ft	12 ft	15 ¾ in	8 in	Dayton	5RWG3	**5RWG3**
¾ hp	—	120V AC	—	5,700	5,100	4,080	—	12 ft	15 ¾ in	8 1/16 in	Barnes	SFU71-GIS	**32ZN58**
1 ½ hp	1¼ in (F)NPT	230V AC	—	6,900	6,120	5,400	60 ft	12 ft	15 ¾ in	8 7/8 in	Dayton	5RGV6	**5RGV6**
1 hp	1 in (F)NPT	230V AC	—	6,300	5,580	4,800	55 ft	12 ft	15 ¾ in	8 in	Dayton	5RWG4	**5RWG4**
2 hp	1¼ in (F)NPT	230V AC	—	7,920	6,720	6,180	68 ft	12 ft	15 ¾ in	8 7/8 in	Dayton	5RGV7	**5RGV7**
Polypropylene													
1/8 hp	1¼ in	120V AC	1,250	785	—	—	20 ft	16 ft	9 39/64 in	8 7/64 in	Little Giant	507902	**4RK88**
5/8 hp	1¼ in	120V AC	4,000	3,500	2,200	—	30 ft	16 ft	11 in	8 7/64 in	Little Giant	507903	**4RK89**
Water Garden Pumps													
Cast Iron													
¾ hp	2 in (F)NPT	120V AC	—	4,345	—	—	36 ft	19 ft	6 13/16 in	14 7/16 in	Little Giant	566069	**13L283**

Material	Includes	Brand	Mfr. Model	Item No.
Auto Fill Valve				
Plastic	½ in PVC Slip and ¾ in Garden Hose Adapters	Little Giant	566901	**2EHN4**

Description	Cord Length	Brand	Mfr. Model	Item No.
Accessories				
Pond Vacuums				
PondoVac 3, Pond Vacuum, 2 Chambers, 120V AC	12 ft	Oase	50409	**38CD18**
PondoVac 4, Pond/Pool Vacuum, 2 Chambers, 120V AC		Oase	37230	**38CD19**
Pond Filter/Clarifiers				
Vitronic 18W UV Pond Clarifier, 110 VV	16 ft	Oase	56455	**38EJ50**
Vitronic 36W UV Pond Clarifier, 110 VV		Oase	40350	**38EJ51**
SwimSkin Floating Surface Skimmer/Air Injector, 110 VV	15 ft	Oase	50040	**38EJ52**
AquaSkim In-Pond Surface Skimmer		Oase	57395	**38EJ53**
Lighting				
LunAqua 3W LED Light 12V	25 ft	Oase	56463	**38CD24**
3 LED Accent Light Kit 12V	26 ft	Pond Boss	52369	**38CD27**

Includes LED light.

Dayton

Pond Fountain Pump Systems

Pumps operate in a minimum of 5 ft. of water and draw water from below the pond surface; a 6" PVC screen filters mosquitoes, algae, and other vegetation to improve aeration and extend motor life. All parts are plastic and stainless steel for maximum corrosion resistance. Include foam-filled flotation system and 3 nozzles for different fountain patterns. 100-ft. cord. Preassembled for simple installation.

2VAN2 to 2VAN4 feature a lockable, rainproof control center with internally mounted ground fault interrupter, adjustable 24-hr. timers and heat shrink splice kit for the motor cable.

Fountain Lighting System—Stainless steel housings with clear lenses can be easily installed onto the float to create dramatic nighttime displays. Include 3 white LED flood lamps, waterproof splice kit, and mounting hardware. 120V, 120 watt lamps.

2VJ23

HP	Voltage	Full Load Amps	Spray Pattern	Max. Spray Width	Max. Spray Height	L	H	Item No.
Pond Aerating Fountain Systems								
½ hp	115V	12 A	(3) Spray Patterns Sky Cannon 15 ft High, Trumpet 13 ft High, Water Lily 15 ft	30 ft	15 ft	14 ½ in	32 in	**2VJ23**
½ hp	230V	6 A		30 ft	15 ft	14 ½ in	32 in	**2VAN2**
¾ hp	230V	8 A	(3) Spray Patterns Sky Cannon 35 ft High, Trumpet 20 ft High, Water Lily 22 ft	32 ft	15 ft	20 in	34 in	**2VAN3**
1 hp	230V	9.8 A	(3) Spray Patterns Sky Cannon 41 ft High, Trumpet 22 ft High, Water Lily 24 ft	46 ft	15 ft	20 in	39 in	**2VAN4**

Description	No. of Lamps	For Use With	Item No.
Fountain Lighting System			
Fountain Lighting System, 100 ft Cord	3	2VAN2, 2VAN3, 2VAN4	**3CPW1**

16A129

13T392

13T422

Kasco

Pond Fountain and Aeration Systems

- 1750 rpm for long seal life
- Saltwater compatible

Systems contain the pumps and hardware needed to enhance landscape and aquaculture ponds. Fountains add visual interest to a commercial or residential setting. Aeration helps improve water quality, keeps fish alive, and adds oxygen for overall pond health. All systems feature submerged pumps with a top water intake. 2-yr. manufacturer's warranty on ½ to 1 HP; 3-yr. manufacturer's warranty on 2 HP and larger. Lights and adapter kits are available on Grainger.com. All models are C-ETL and UL Listed, CSA Certified.

Aerating Fountain Systems— Economical fountains are aesthetically pleasing and deliver acceptable oxygen transfer. Provide an attractive V display while aerating the water. Include float with screen, mooring ropes, power cord, and control panel. Minimum water depth for operation is 15" (38cm).

Decorative Fountain Systems— Fountains pass water through deflectors for less clogging, have 5 to 7 built-in interchangeable spray patterns, and include an assortment of nozzles. Come complete with power control center that is compatible with Fountain Lighting Systems (sold separately). Include mooring lines, float, and bottom screen. Minimum water depth for operation is 17.5" (44.5cm).

Surface Aeration Systems—They agitate high volumes of water at the water surface to create maximum air exposure and high oxygen transfer. Provide up to 3 lb./oxygen/HP/hr. into the water for commercial fish farms, retention ponds, and industrial and municipal wastewater applications. Minimum water depth for operation is 15" (38cm).

HP	Voltage	Amps	Cord Length	Spray Pattern	Max. Spray Width	Max. Spray Height	Mfr. Model	Item No.
Pond Aerating Fountain Systems								
½ hp	120V	5.6 A	50 ft	V Shaped Pattern	15'	5 ft	2400VFX050	**13T402**
	120V	5.6 A	100 ft		15'	5 ft	2400VFX100	**13T403**
¾ hp	120V	7.3 A	50 ft		21'	6 ft	3400VFX050	**13T404**
	120V	7.3 A	100 ft		21'	6 ft	3400VFX100	**13T405**
	240V	3.7 A	100 ft		21'	6 ft	3400HVFX100	**16A129**
1 hp	120V	11.3 A	100 ft		26'	8 ft	4400VFX100	**13T406**
2 hp	240V	11 A	100 ft		32'	8 ft	8400VFX100	**13T410**
5 hp	240V	20 A	200 ft		34'	9 ft	5.1VFX200	**13T412**
Pond Decorative Fountain Systems								
¾ hp	120V	6.5 A	50 ft	5 Changeable Spray Patterns: Linden, Cypress, Willow, Juniper, Sequoia	20'	7 ft	3400JF050	**13T388**
	120V	6.5 A	100 ft		20'	7 ft	3400JF100	**13T389**
1 hp	120V	11 A	100 ft		25'	10 ft	4400JF100	**13T390**
	240V	5.5 A	100 ft		25'	10 ft	4400HJF100	**13T391**
	120V	11 A	150 ft		25'	10 ft	4400JF150	**16A124**
2 hp	240V	10 A	100 ft	6 Changeable Spray Patterns: Linden, Willow, Juniper, Redwood, Spruce, Birch	46'	22 ft	8400JF100	**13T392**
	240V	10 A	150 ft		46'	22 ft	8400JF150	**13T393**
	240V	10 A	200 ft		46'	22 ft	8400JF200	**13T394**
3 hp	240V	13.4 A	100 ft		48'	24 ft	3.1JF100	**13T395**
	240V	13.4 A	150 ft		48'	24 ft	3.1JF150	**13T396**
	240V	13.4 A	200 ft		48'	24 ft	3.1JF200	**13T397**
5 hp	240V	20 A	100 ft	7 Changeable Spray Patterns: Linden, Willow, Juniper, Redwood, Spruce, Sequoia, Birch	50'	26 ft	5.1JF100	**13T398**
	240V	20 A	150 ft		50'	26 ft	5.1JF150	**13T399**
	240V	20 A	200 ft		50'	26 ft	5.1JF200	**13T401**
Pond Surface Aeration Systems								
½ hp	120V	5 A	50 ft	High Flow Of Surface Agitation	4'	1 ft 6 in	2400AF050	**13T413**
	120V	5 A	100 ft		4'	1 ft 6 in	2400AF100	**13T414**
¾ hp	120V	6.7 A	50 ft		4' 6"	1 ft 9 in	3400AF050	**13T415**
	120V	6.7 A	100 ft		4' 6"	1 ft 9 in	3400AF100	**13T416**
	240V	3.4 A	50 ft		4' 6"	1 ft 9 in	3400HAF050	**13T417**
	240V	3.4 A	100 ft		4' 6"	1 ft 9 in	3400HAF100	**13T418**
1 hp	120V	11.3 A	50 ft		5'	2 ft	4400AF050	**13T419**
	120V	11.3 A	100 ft		5'	2 ft	4400AF100	**13T420**
2 hp	240V	9 A	100 ft		6'	3 ft	8400AF100	**13T421**
5 hp	240V	18 A	100 ft		7'	3 ft	5.1AF100	**13T422**

Marine Utility
3TNJ4

Marine Utility with Battery Clips
3TNJ7

Marine Utility with Hose
3TNJ8

Bait & Live Well, Seacock
3TNK1

Bait & Live Well, Through-Hull Angled Pickup Tube
3TNK3

Bait & Live Well, Through-Hull Straight Pickup Tube
3TNK2

rule

12V Marine Utility & Livewell Pumps

- Electrically activated

Marine Utility Pumps—Pumps can be submersed to pump water out of a tight space, or the inlet filter cap can be removed and a hose attached to the inlet nozzle for inline use. Used for a variety of applications such as pumping fresh or salt water or delivering water for washdown purposes.

Bait & Live Well Pumps—Pumps circulate water through a hole in the hull of the boat to a holding tank for live bait and caught fish. They include an alternate connection to add a second item such as a washdown pump to keep holes in the boat to a minimum. Include ¾" right angle hose barb adapter and ¾" straight hose barb adapter.

Maximum Feet of Head	Maximum Discharge Pressure	Intake & Discharge Connection	Amps	Includes	Item No.
Marine Utility Pumps					
25 ft	7 psi	⅜ in Barbed	2.8 A	—	**3TNJ2**
32 ft	7 psi	½ in Barbed	4.5 A	—	**3TNJ4**
	7 psi	½ in Barbed	4.5 A	Battery Clips	**3TNJ5**
	7 psi	¾ in Barbed	6 A	Battery Clips	**3TNJ7**
	7 psi	¾ in Barbed	6 A	Battery Clips, Hose, Nozzle	**3TNJ8**

Maximum Flow Rate @ 1 Feet of Head	Maximum Feet of Head	Intake Connection	Discharge Connection	Amps	Item No.
Bait & Live Well Pumps					
Seacock					
500 gph	8 ft	¾ in NPT	¾ in NPSM	2.5 A	**3TNK1**
800 gph	13 ft	¾ in NPT	¾ in NPSM	5 A	**3TNK4**
1,100 gph	12 ft	¾ in NPT	1 ⅛ in NPSM	6 A	**3TNK7**
Through-Hull Angled Pickup Tube					
500 gph	8 ft	4 in NPS	¾ in NPSM	2.5 A	**3TNJ9**
800 gph	13 ft	4 in NPS	¾ in NPSM	5 A	**3TNK3**
1,100 gph	12 ft	4 in NPS	1 ⅛ in NPSM	6 A	**3TNK6**
Through-Hull Straight Pickup Tube					
500 gph	8 ft	4 ¾ in NPS	¾ in NPSM	2.5 A	**3TNK2**
800 gph	13 ft	4 ¾ in NPS	¾ in NPSM	5 A	**3TNK5**
1,100 gph	12 ft	4 ¾ in NPS	1 ⅛ in NPSM	6 A	**3TNK8**

Bilge Pumps

- 12V DC, except 4NX12 is 24V DC

Efficient compact pumps feature a plastic housing and stainless steel shaft. Use in fresh or salt water.

Bilge/Livewell Pump—Hardwired pump features manual priming. 5.25"H

Automatic On-Off Bilge—Continually sense for the presence of water and need no separate float switch. Pump impeller operates for approximately 1 sec. every 2.5 min. If water is present the pump runs until all water is removed.

Nonautomatic Bilge Pumps—Require pump control switches (sold separately).

Bilge Pump Float Switches—Environmentally friendly, mercury-free switches. Turn on at 2" water level; off at ¾". Ignition protected with no battery drain. ABS plastic construction with 26"L abrasion-resistant wire leads. 2GWK5 and 2GWK7 have removable bases. 2GWK7 has an integral switch cover with self-test feature.

Max. Flow Rate @ 1 Ft. of Head	Max. Ft. of Head	Compatible Discharge Pipe Size	Amps	Mfr. Model	Item No.
Bilge/Livewell Pump					
3,800 gph	25 ft	1 ½ in	15.5 A	17A	**4P016**

Flow Rate @ 0 Ft. of Head	Max. Head (ft.)	Discharge	Amps	Overall Height	Mfr. Model	Item No.
Automatic On-Off Bilge						
3.0 gpm	11	¾ in NPS	1.8 A	3 29⁄32 in	25SA	**406R84**
18.3 gpm	10	1 in	3.7 A	4 13⁄32 in	27SA	**406R86**
33.3 gpm	20.0	1⅛ in	8.4 A	7 ¾ in	53S	**4P014**
Nonautomatic Bilge						
6.0 gpm	12	¾ in NPS	2.1 A	3 29⁄32 in	24DA	**406R85**
8.3 gpm	11	¾ in NPS	1.8 A	3 29⁄32 in	25DA	**406R83**
13.3 gpm	14.4	¾ in	2.8 A	4 ½ in	20F	**4NX13**
25.0 gpm	10.2	1⅛ in	4.8 A	6 in	2	**4NX11**
33.3 gpm	20.0	1⅛ in	8.4 A	6 in	10	**3P998**
	16.0	1⅛ in	4 A	6 in	12	**4NX12**
61.7 gpm	23.5	1½ in	15.5 A	7 ¼ in	14 A	**3P999**
66.7 gpm	26.5	2 in	15.5 A	7 ¾ in	56D	**4P012**

Voltage	For Use With	Wire Gauge	Mfr. Model	Item No.
Bilge Pump Float Switches				
12VDC to 24VDC	Mfr. No. 12, 10, 24, 25D	16	35A-GRA	**2GWK5**
12VAC to 24VAC to 32VAC	3P999, 4P012, 4P016	14	40A-GRA	**2GWK7**
	Mfr. No. 14 A, 56D, 17A	14	37A-GRA	**2GWK6**

4P016

3P998

3P999

Jetted Tub, Spa, and Swimming Pool Pumps

- 115/230V
- Max. liquid temp.: 100°F
- ODP motor enclosure
- NEMA 56 frame motor
- 3450 rpm, except 5PXG1 and 5PXG3 are 3450/1725 rpm

Made from a highly corrosion-resistant blend of glass-reinforced thermoplastic.

Above-Ground Pool Pump—Includes a 4" integral hair and lint strainer.

Self-Draining Jetted Tub Pumps—Include 2 sets of each: union collar, adapter, and 0-ring.

2-Speed Spa Pumps—Allow low-flow circulation for prolonged periods or for high water movement. For use in spas and hot tubs. Include 2 sets of each: union collar, adapter, and 0-ring.

Swimming Pool Cover Pump—Automatic pump removes water from all types of pool covers.

5PXG4

4RU62

HP	Amps	Inlet	Outlet	GPM of Water @ Total ft. of Head* 10	20	30	40	Max. Head	L	W	H	Brand	Item No.
Above-Ground Pool Pump, Capacitor Start													
½ hp	9.6/4.8	1 ½ in	1 ½ in	60 gpm	47 gpm	29 gpm	—	36	18 11⁄16 in	6 31⁄32 in	10 15⁄32 in	Dayton	**5PXG4**
Self-Draining Jetted Tub Pump, Capacitor Start													
½ hp	8.1/4.5	1 ½ in	1 ½ in	63 gpm	49 gpm	29 gpm	—	34	17 5⁄16 in	6 17⁄32 in	9 ½ in	Dayton	**5PXF7**
¾ hp	11.4/5.8	1 ½ in	1 ½ in	76 gpm	65 gpm	51 gpm	—	40	17 31⁄32 in	6 17⁄32 in	9 ½ in	Dayton	**5PXF8**
2-Speed Spa Pump, Capacitor Start/Capacitor Run													
¾ - ⅛ hp	11.5/5.8-3.5/1.9	1 ½ in	1 ½ in	82 gpm	68 gpm	53 gpm	18 gpm	41	16 3⁄32 in	6 17⁄32 in	9 ½ in	Dayton	**5PXG1** †
1½ - ⅙ hp	15.3/7.6-4.4/2.2	1 ½ in	1 ½ in	103 gpm	91 gpm	74 gpm	62 gpm	51	17 11⁄16 in	6 17⁄32 in	9 ½ in	Dayton	**5PXG3** †

HP	Operation/Thermal Protection	Amps	GPH of Water @ Total ft. of Head* 5	10	20	L	W	H	Brand	Item No.
Swimming Pool Cover Pump										
⅓ hp	Automatic	2.2 A	1,500 gph	1,150 gph	216 gph	12 in	12 in	8 ¼ in	Little Giant	**4RU62**

** To convert to psi, divide total feet of head by 2.31. † Based on 3450 rpm.*

Commercial Swimming Pool Pumps

- Self-priming
- ODP motor enclosure
- 3450 rpm

Bronze—Semiopen bronze impellers. For optional strainers, see Pump Strainer table on this page.

Cast-Iron—For optional strainers, see Pump Strainer table on this page.

Fits Pump	Item No.
Pump Strainer	
5PXC6, 5PXC7, 5PXC8, 5PXC9	**5PXF2**
5PXD2, 5PXD3, 5PXD4,	**5PXF4**
5PXD8, 5PXD9	**5PXF5**
5PXE0, 5PXE1	**5PXF6**

5PXD2

HP	Voltage	Amps	Inlet/ Outlet NPTF (in.)	Motor Type	NEMA/ IEC Frame	GPM of Water @ Total ft. of Head* 20	30	40	50	60	70	80	Max. Head (ft.)	Suction Lift (ft.)	Max. Liquid Temp. (°F)	L (in.)	W (in.)	H (in.)	Item No.
Bronze																			
½ hp	115/230	9.2/4.7	1½ x 1½	Cap. Start	56Y	43 gpm	29.8 gpm	14.1 gpm	—	—	—	—	43	6	180°	13 15⁄16	6 13⁄16	8 13⁄16	**5PXD2**
3 hp	208-230/460	9.8-9.3/4.65	2 x 2	3-Phase	182Y	137.2 gpm	127.7 gpm	107.8 gpm	85.3 gpm	54.3 gpm	26 gpm	—	77	6	180°	16 15⁄16	10½	12	**5PXD9**
5 hp	208-230/460	15.8-15/7.5	3 x 3	3-Phase	182Y	257.9 gpm	243.2 gpm	226.1 gpm	205.8 gpm	182.3 gpm	153.3 gpm	124.1 gpm	100	6	180°	20	10½	12	**5PXE1**
5 hp	230	21.5	3 x 3	Cap. Start/Cap. Run	182Y	257.9 gpm	243.2 gpm	226.1 gpm	205.8 gpm	182.3 gpm	153.3 gpm	124.1 gpm	100	6	180°	20	10½	12	**5PXE0**
Cast-Iron																			
2 hp	115/230	22/11	2 x 2	Cap. Start/Cap. Run	182Y	141.2 gpm	125.7 gpm	110.9 gpm	93.8 gpm	75.8 gpm	52.4 gpm	—	73	25	104°	21	9¾	12½	**5PXC6**

** To convert to psi, divide total feet of head by 2.31.*

Pool Filters

FILTERS

- Max. water temp.: 100°F

Easy to install and ideal for maintaining a clean and sanitary swimming pool and spa environment. Resist UV light and suitable for indoor or outdoor use.

Cartridge—For residential and commercial pools and spas, from 9000 to 65,000 gal. Easy-to-read pressure gauge.

- Max. pressure: 40 psi

Sand—Easily maintained filters for residential in-ground and above-ground pools, from 16,000 to 48,000 gal. Filter rotates 360° for easy installation. Simple lever action allows selection of valve operation. Top diffuser ensures even water distribution over the sand bed.

- Max. pressure: 28 psi, except 4VMP3 is 36 psi

REPLACEMENT CARTRIDGE FILTER ELEMENTS

Filter out dirt and particles, easy to clean. Even pleats allow better filtering.

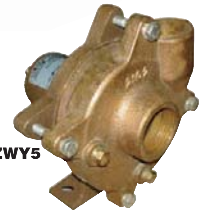
Pool Cap. (gal.)	Filter Height (in.)	Dia. (in.)	Filter Area (sq. ft.)	Total	8-hr. Turnover	Inlet/ Outlet (in.)	Sand Required (lb.)	Item No.	Replacement Cartridge Filter Elements Item No.
Cartridge Filters									
9,000 to 65,000 gal	28 ½	8⅞	49.8 sq ft	50.2 gpm	24,092 gal	1½	—	**4VMN4**	**4VMP5**
	35 11⁄16	8⅞	75.3 sq ft	74.8 gpm	35,927 gal	1½	—	**4VMN6**	**4VMP6**
	42 ¾	8⅞	101 sq ft	100.8 gpm	48,396 gal	2	—	**4VMN7**	**4VMP7**
	49 ⅞	8⅞	147.6 sq ft	147.1 gpm	70,587 gal	2	—	**4VMN8**	**4VMP8**
Sand Filters									
16,000 to 48,000 gal	33 ¾	20¾	2.4 sq ft	47.5 gpm	22,800 gal	1½	187	**4VMP1**	—
	37 ⅞	24 11⁄16	3.3 sq ft	67.3 gpm	32,304 gal	1½	320	**4VMP2**	—
	43	28½	4.4 sq ft	88.8 gpm	42,606 gal	2	474	**4VMP3**	—

4VMN4

4VMP2

Dayton

2ZWN9



2ZWY5

Straight Centrifugal Pumps and Pedestal Pumps

- 3450 rpm motors; NEMA 56J frames
- Max. temp.: 200°F
- Max. viscosity: 100 SSU
- 4-position rotation

Pumps have continuous-duty motors for high-flow or high-head applications, with mechanical seals and side and bottom housing drain plugs. Designed for general transfer, boiler feed, condensate return, water circulation, irrigation, cooling towers, filtration, and pressure boosting.

1-phase motors are capacitor-start and have internal thermal protection. 3-phase units do not have overload protection and require a pump control box, sold separately on page 2630.

Pedestal pumps can be driven by pulley or directly coupled to a motor.

HOUSING MATERIALS

Cast Iron—High-flow pumps have cast-iron housing and impellers, with Buna N, carbon, ceramic, and stainless steel mechanical seals. High-head pumps have Viton, carbon, ceramic, and stainless steel mechanical seals.

Bronze—High-flow pumps have bronze housing and impeller, with Buna N, carbon, ceramic, and stainless steel mechanical seal. High-head pumps have bronze housing, stainless steel impeller, and Viton, carbon, ceramic, and stainless steel mechanical seals.

Stainless Steel—Stainless steel housing and impeller, with Viton, carbon, ceramic, and stainless steel mechanical seals.

Cast Iron, Brass Impeller—Cast-iron body with brass impeller. Seals are made from Viton, carbon, ceramic, and stainless steel.

HP	GPM @ Head ft. Max.	Best*	Min.	Max. Head (ft.)†
High Flow Performance				
⅓	41 @ 10	30 @ 26	10 @ 40	44
½	67 @ 10	38 @ 27	10 @ 40	44
¾	72 @ 10	47 @ 36	22 @ 50	55
1	88 @ 10	75 @ 38	29 @ 50	58
1½	115 @ 10	72 @ 44	40 @ 60	67
2	122 @ 10	70 @ 52	10 @ 70	72
3	170 @ 10	95 @ 57	35 @ 70	74

HP	GPM @ Head ft. Max.	Best*	Min.	Max. Head (ft.)†
High Head Performance				
½	42 @ 10	29 @ 47	2 @ 80	82
¾	53 @ 10	33 @ 59	12 @ 90	98
1	59 @ 10	34 @ 70	3 @ 110	112
1½	94 @ 10	54 @ 70	18 @ 100	110
2	94 @ 10	54 @ 70	18 @ 100	110
3	107 @ 10	70 @ 72	2 @ 130	131

Seal Material	Shaft Size (in.)	Max. Temp. (°F)	Min. Temp. (F)	Item No.
Replacement Pump Shaft Seals				
Buna, Carbon, Ceramic	⅝	160 °F	-25 °F	**3ACE6**
Carbon, Ceramic, Viton	⅝	250 °F	-40 °F	**3ACE7**
Silicon Carbide, Viton	⅝	250 °F	-40 °F	**3ACE8**

HP	Motor Enclosure	Voltage	Amps	Inlet Size	Outlet Size	Straight Centrifugal Pumps: Cast-Iron Item No.	Straight Centrifugal Pumps: Bronze Item No.	Straight Centrifugal Pumps: Stainless Steel Item No.	Pedestal Pumps, No Motor: Cast Iron Item No.	Pedestal Pumps, No Motor: Bronze Item No.	Pedestal Pumps, No Motor: Stainless Steel Item No.
High Flow											
⅓ hp	Open Dripproof	115/230V AC	7.5/3.8	1 in NPT	¾ in NPT	**2ZWN9**	—	—	**2ZWX3**	—	—
⅓ hp	Open Dripproof	120/240V AC	7.5/3.8	1 in NPT	¾ in NPT	—	**2ZWR4**	**2ZWT8**	—	**2ZWY1**	**2ZWY8**
½ hp	Open Dripproof	120/240V AC	8.4/4.8	1¼ in NPT	1 in NPT	**2ZWP1**	**2ZWR5**	**2ZWT9**	—	**2ZWY2**	**2ZWY9**
½ hp	Open Dripproof	208 to 240/480V AC	1.8-1.7/0.9	1¼ in NPT	1 in NPT	**2ZWP2** ‡	**2ZWR6** ‡	**2ZWU1** ‡	—	**2ZWY2** ‡	**2ZWY9** ‡
¾ hp	Open Dripproof	120/240V AC	11.3/5.6	1¼ in NPT	1 in NPT	**2ZWP3**	**2ZWR7**	**2ZWU2**	**2ZWX5**	**2ZWY3**	**2ZWZ1**
¾ hp	Open Dripproof	208 to 240/480V AC	2.7-2.5/1.2	1¼ in NPT	1 in NPT	**2ZWP4** ‡	**2ZWR8** ‡	**2ZWU3** ‡	**2ZWX5** ‡	**2ZWY3** ‡	**2ZWZ1** ‡
1 hp	Open Dripproof	120/240V AC	14.4/7.2	1½ in NPT	1¼ in NPT	**2ZWP5**	**2ZWR9**	**2ZWU4**	**2ZWX6**	—	**2ZWZ2**
1 hp	Open Dripproof	208 to 240/480V AC	3.7-3.2/1.6	1½ in NPT	1¼ in NPT	**2ZWP6** ‡	**2ZWT1** ‡	**2ZWU5** ‡	**2ZWX6** ‡	—	**2ZWZ2** ‡
1 ½ hp	Open Dripproof	120/208 to 240V AC	17.0/9.0-8.5	1½ in NPT	1¼ in NPT	**2ZWP7**	—	—	**2ZWX7**	—	—
1 ½ hp	Open Dripproof	208 to 240/480V AC	4.4-3.9/2.0	1½ in NPT	1¼ in NPT	**2ZWP8** ‡	**2ZWT3** ‡	**2ZWU7** ‡	**2ZWX7** ‡	**2ZWY5** ‡	**2ZWZ3** ‡
1 ½ hp	Open Dripproof	120/208 to 240V AC	17/9.0-6.4	1½ in NPT	1¼ in NPT	—	**2ZWT2**	**2ZWU6**	—	**2ZWY5**	**2ZWZ3**
2 hp	Totally Enclosed Fan-Cooled	120/208 to 240V AC	16.6/9.4-8.3	1½ in NPT	1¼ in NPT	**2ZWP9**	**2ZWT4**	**2ZWU8**	**2ZWX8**	**2ZWY6**	**2ZWZ4**
2 hp	Totally Enclosed Fan-Cooled	208 to 240/480V AC	6.0-5.8/2.9	1½ in NPT	1¼ in NPT	**2ZWR1** ‡	**2ZWT5** ‡	—	**2ZWX8** ‡	**2ZWY6** ‡	—
2 hp	Totally Enclosed Fan-Cooled	230/460	6.0-5.8/2.9	1½ in NPT	1¼ in NPT	—	—	**2ZWU9** ‡	—	—	**2ZWZ4** ‡
3 hp	Totally Enclosed Fan-Cooled	240V AC	12.5	2 in NPT	1½ in NPT	**2ZWR2**	—	—	**2ZWX9**	—	—
3 hp	Totally Enclosed Fan-Cooled	230/460	8.3-7.6/3.8	2 in NPT	1½ in NPT	**2ZWR3** ‡	—	—	**2ZWX9** ‡	—	—
3 hp	Totally Enclosed Fan-Cooled	240V AC	-/12.5	2 in NPT	1½ in NPT	—	**2ZWT6**	**2ZWX1**	—	**2ZWY7**	**2ZWZ5**
3 hp	Totally Enclosed Fan-Cooled	208 to 240/480V AC	8.3-7.6/3.8	2 in NPT	1½ in NPT	—	**2ZWT7** ‡	**2ZWX2** ‡	—	**2ZWY7** ‡	**2ZWZ5** ‡

HP	Motor Enclosure	Voltage	Amps	Inlet Size	Outlet Size	Straight Centrifugal Pumps: Cast-Iron Item No.	Straight Centrifugal Pumps: Cast-Iron Brass Impeller Item No.	Straight Centrifugal Pumps: Bronze Item No.	Straight Centrifugal Pumps: Stainless Steel Item No.
High Head									
½ hp	Open Dripproof	120/240V AC	8.4/4.8	1¼ in NPT	1 in NPT	**2ZXJ1**	**2ZXL7**	**2ZWZ6**	**2ZXK4**
½ hp	Open Dripproof	208 to 240/480V AC	1.8-1.7/0.9	1¼ in NPT	1 in NPT	**2ZXJ2** ‡	**2ZXL8** ‡	**2ZWZ7** ‡	**2ZXK5** ‡
¾ hp	Open Dripproof	120/240V AC	11.3/5.6	1¼ in NPT	1 in NPT	**2ZXJ3**	**2ZXL9**	**2ZWZ8**	**2ZXK6**
¾ hp	Open Dripproof	208 to 240/480V AC	2.7-2.5/1.2	1¼ in NPT	1 in NPT	**2ZXJ4** ‡	**2ZXN1** ‡	**2ZWZ9** ‡	**2ZXK7** ‡
1 ½ hp	Open Dripproof	120/240V AC	13.5/6.4	1½ in NPT	1¼ in NPT	**2ZXJ7**	**2ZXN4**	**2ZXA3**	**2ZXL1**
1 ½ hp	Open Dripproof	208 to 240/480V AC	4.4-3.9/2.0	1½ in NPT	1¼ in NPT	**2ZXJ8** ‡	**2ZXN5** ‡	**2ZXA4** ‡	**2ZXL2** ‡
2 hp	Totally Enclosed Fan-Cooled	120/240V AC	16.6/8.3	1½ in NPT	1¼ in NPT	**2ZXJ9**	**2ZXN6**	**2ZXA5**	**2ZXL3**
2 hp	Totally Enclosed Fan-Cooled	208 to 240/480V AC	6.0-5.8/2.9	1½ in NPT	1¼ in NPT	**2ZXK1** ‡	**2ZXN7** ‡	**2ZXA6** ‡	**2ZXL4** ‡
3 hp	Totally Enclosed Fan-Cooled	240V AC	-/12.5	1½ in NPT	1¼ in NPT	**2ZXK2**	—	**2ZXA7**	**2ZXL5**
3 hp	Totally Enclosed Fan-Cooled	208 to 240/480V AC	8.3-7.6/3.8	1½ in NPT	1¼ in NPT	**2ZXK3** ‡	**2ZXN9** ‡	**2ZXA8** ‡	**2ZXL6** ‡
3 hp	Totally Enclosed Fan-Cooled	240V AC	12.5	1½ in NPT	1¼ in NPT	—	**2ZXN8**	—	—
1 hp	Open Dripproof	115/230V AC		1¼ in NPT	1 in NPT	**55JJ70**	**55JJ74**	**55JJ68**	**55JJ72**
1 hp	Open Dripproof	230/460V AC		1¼ in NPT	1 in NPT	**55JJ71**	**55JJ75**	**55JJ69**	**55JJ73**

** Use "Best gpm @ Head ft." for optimum performance. † To convert to psi, divide total feet of head by 2.31. Performance data at 3450 rpm. ‡ 3 phase.*

Pump Repair Kits for Straight Centrifugal and Pedestal Pumps

Dayton

Kits contain O-ring, seal, impeller with shim kit, washer, screws, nuts, and lock washers to maintain the centrifugal pumps specified.

21TG39

For Use With	Item No.
2ZWN9	**21TG36**
2ZWP1, 2ZWP2	**21TG37**
2ZWP3, 2ZWP4	**21TG39**
2ZWP5, 2ZWP6	**21TG41**
2ZWP7, 2ZWP8	**21TG43**
2ZWP9, 2ZWR1	**21TG45**
2ZWR2, 2ZWR3	**21TG47**
2ZWR4	**21TG49**
2ZWR5, 2ZWR6	**21TG50**
2ZWR7, 2ZWR8	**21TG52**
2ZWR9, 2ZWT1	**21TG54**
2ZWT2, 2ZWT3	**21TG56**
2ZWT4, 2ZWT5	**21TG58**
2ZWT6, 2ZWT7	**21TG60**
2ZWT8	**21TG62**
2ZWT9, 2ZWU1	**21TG63**
2ZWU2, 2ZWU3	**21TG65**
2ZWU4, 2ZWU5	**21TG67**
2ZWU6, 2ZWU7	**21TG69**
2ZWU8, 2ZWU9	**21TG71**

For Use With	Item No.
2ZWX1, 2ZWX2	**21TG73**
2ZWX3	**21TG75**
2ZWX5	**21TG77**
2ZWX6	**21TG78**
2ZWX7	**21TG79**
2ZWX8	**21TG80**
2ZWX9	**21TG81**
2ZWY1	**21TG82**
2ZWY2	**21TG83**
2ZWY3	**21TG84**
2ZWY5	**21TG86**
2ZWY6	**21TG87**
2ZWY7	**21TG88**
2ZWY8	**21TG89**
2ZWY9	**21TG90**
2ZWZ1	**21TG91**
2ZWZ2	**21TG92**
2ZWZ3	**21TG93**
2ZWZ4	**21TG94**
2ZWZ5	**21TG95**

For Use With	Item No.
2ZXA3, 2ZXA4, 2ZXA5, 2ZXA6	**21TG96**
2ZXA7, 2ZXA8	**21TH01**
2ZWZ6, 2ZWZ7	**21TH03**
2ZWZ8, 2ZWZ9	**21TH05**
2ZXA1, 2ZXA2	**21TH07**
2ZXJ7, 2ZXJ8, 2ZXJ9, 2ZXK1	**21TH09**
2ZXK2, 2ZXK3	**21TH13**
2ZXJ1, 2ZXJ2	**21TH15**
2ZXJ3, 2ZXJ4	**21TH17**
2ZXJ5, 2ZXJ6	**21TH19**
2ZXL1, 2ZXL2, 2ZXL3, 2ZXL4	**21TH21**
2ZXL5, 2ZXL6	**21TH25**
2ZXK4, 2ZXK5	**21TH27**
2ZXK6, 2ZXK7	**21TH29**
2ZXK8, 2ZXK9	**21TH31**
2ZXL9, 2ZXN1	**21TH34**
2ZXN4, 2ZXN5, 2ZXN6, 2ZXN7	**21TH35**
2ZXN8, 2ZXN9	**21TH39**
2ZXN2, 2ZXN3	**21TH42**
2ZXL7, 2ZXL8	**21TH44**

GOULDS WATER TECHNOLOGY

Centrifugal Pumps

- 3500 rpm TEFC motors; NEMA 56J frames
- Max. temp.: 212°

Compact design mounts horizontally or vertically to fit into tight spaces. Corrosion-resistant 316 stainless steel housing with silicon carbide, Viton, and stainless steel seals. Casing and adapter have NPT centerline connections with easily accessible drain, prime, and vent connections with stainless steel plugs. Designed for air scrubbers, chillers, filtration, liquid transfer, pressure boosting, spray systems, and water circulation applications. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

6NZL6

HP	Inlet Size	Outlet Size	Best Efficiency Range GPM @ Head*	Max. Head†	1-PHASE Voltage	1-PHASE Amps	1-PHASE Mfr. Model	1-PHASE Item No.	3-PHASE Voltage	3-PHASE Amps	3-PHASE Mfr. Model	3-PHASE Item No.
½ hp	1¼ in NPT	1 in NPT	17.5 to 37.5 gpm @ 66 to 39 ft	75 ft	120/240V AC	9.2/ 4.6	1ST1C4E4	**6NZL6**	208 to 240/480V AC	2.4-2.4/ 1.2	1ST1C5E4	**6NZN1**
¾ hp	1¼ in NPT	1 in NPT	20 to 40 gpm @ 81.5 to 53 ft	95 ft	120/240V AC	11.4 / 5.7	1ST1D4D4	**6NZL7**	208 to 240/480V AC	3.4-3.2/ 1.6	1ST1D5D4	**6NZN2**
1 hp	1¼ in NPT	1 in NPT	22.5 to 42.5 gpm @ 96 to 68 ft	115 ft	120/240V AC	13.6 / 6.8	1ST1E4C4	**6NZL8**	—	—	—	—
1 ½ hp	1¼ in NPT	1 in NPT	25 to 45 gpm @ 113 to 82 ft	135 ft	120/240V AC	18.4 / 9.2	1ST1F4B4	**6NZL9**	208 to 240/480V AC	5.4-5.4/ 2.7	1ST1F9B4BM	**52XG26**
2 hp	1¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	155 ft	120/240V AC	20.8 / 10.4	1ST1G4A4	**6NZN0**	—	—	—	—
	1¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	158 ft	—	—	—	—	208 to 240/480V AC	6.6-6.4/3.2	1ST1G9A4	**52TW78**
3 hp	1¼ in NPT	1 in NPT	28 to 48 gpm @ 132 to 100 ft	158 ft	—	—	—	—	208 to 240/480V AC	9.6-8.6/4.3	1ST1H9A4	**52XG27**

** Use "Best Efficiency Range GPM @ Head" for optimum performance. † To convert to psi, divide total feet of head by 2.31. Performance data at 3500 rpm.*

Dayton®

High-Volume, Straight Center-Discharge Pumps

- 3-phase, except 4RU78, 55JJ64 and 55JJ66 are single phase
- TEFC motor enclosures (except 4RU78 is ODP)

Pumps feature continuous-duty motors with enclosed impellers, 4-position port rotation, replaceable case ring, and easy-access housing drain plugs. Suitable for process applications, dewatering, irrigation, chemical transfer, decorative water features, and other industrial applications. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. Replacement seals are available on Grainger.com.

Cast-Iron Wetted Materials—Cast-iron housing; bronze impeller. Seals are Buna N, stainless steel, carbon, and ceramic.

Stainless Steel Wetted Materials—Stainless steel housing and impeller. Seals are Viton, stainless steel, carbon, and ceramic.

Naval Bronze Wetted Materials—Naval bronze housing with naval bronze impeller. Seals are stainless steel, Buna N, carbon, and ceramic.

55JJ36

HP	Voltage	Amps	Frame	Inlet Size	Outlet Size	Best Efficiency Range GPM @ Head*	Max. Head+	CAST-IRON Item No.	STAINLESS STEEL Item No.	NAVAL BRONZE Item No.
1 hp	120/240V AC	14.8/7.4	48Y	1¼ NPT	1 NPT	23 to 48 gpm @ 98 to 54 ft	113 ft	**4RU78**	—	—
2 hp	208 to 240/480V AC	6.2/3.1	145JM	2½ NPT	2 NPT	83 to 120 gpm @ 53 to 41 ft	63 ft	**55JJ37**	**55JJ38**	—
	208 to 240/480V AC	6.2/3.1	145JM	2 NPT	1½ NPT	83 to 120 gpm @ 53 to 41 ft	63 ft	**55JJ36**	**55JJ67**	—
2 ½ hp	208 to 240/480V AC	7.0/3.5	56Y	2 NPT	1½ NPT	55 to 65 gpm @ 115 to 75 ft	142 ft	**4RJ68**	—	—
3 hp	208 to 240/480V AC	9.2/4.6	182JM	2½ NPT	2 NPT	97 to 131 gpm @ 72 to 62 ft	84 ft	**55JJ43**	**55JJ44**	—
	208 to 240/480V AC	9.2/4.6	182JM	2 NPT	1½ NPT	97 to 131 gpm @ 72 to 62 ft	84 ft	**55JJ39**	**55JJ40**	—
	208 to 240/480V AC	9.2/4.6	182JM	2½ Flange	2 Flange	97 to 131 gpm @ 72 to 62 ft	84 ft	**55JJ41**	**55JJ42**	—
	230V AC	12.5	56J	2½ NPT	2 NPT	100 to 160 gpm @ 78 to 60 ft	87 ft	**55JJ64**	**55JJ66**	—
5 hp	208 to 240/480V AC	15.4/7.7	184JM	2½ Flange	2 Flange	123 to 188 gpm @ 90 to 68 ft	105 ft	**55JJ49**	**55JJ50**	—
	208 to 240/480V AC	15.4/7.7	184JM	2 NPT	1½ NPT	123 to 188 gpm @ 90 to 68 ft	105 ft	**55JJ47**	**55JJ48**	—
	208 to 240/480V AC	15.4/7.7	184JM	2 Flange	1½ Flange	123 to 188 gpm @ 90 to 68 ft	105 ft	**55JJ45**	**55JJ46**	—
	208 to 230/460V AC	15.4/7.7	184JM	2½ NPT	2 NPT	123 to 188 gpm @ 90 to 68 ft	105 ft	**55JJ51**	**55JJ52**	**55JJ53**
7 ½ hp	208 to 240/480V AC	18.8-17.8/8.9	184JM	2½ NPT	2 NPT	110 to 136 gpm @ 138 to 102 ft	150 ft	**12A075**	**12A076**	—
	208 to 230/460V AC	21.6/10.8	184JM	2 NPT	1½ NPT	110 to 136 gpm @ 138 to 102 ft	150 ft	**55JJ54**	**55JJ55**	—
	208 to 240/480V AC	21.6/10.8	184JM	3 NPT	2½ NPT	210 to 315 gpm @ 82 to 64 ft	94 ft	**55JJ56**	**55JJ57**	—
10 hp	208 to 240/480V AC	25.6-24.4/12.2	215JM	2½ NPT	2 NPT	147 to 171 gpm @ 138 to 101 ft	190 ft	**12A079**	**12A080**	—
	208 to 240/480V AC	29.6/14.8	215JM	3 NPT	2½ NPT	227 to 333 gpm @ 102 to 82 ft	112 ft	**55JJ58**	**55JJ59**	**55JJ60**
15 hp	230/460V AC	42.2/21.1	215JM	3 NPT	2½ NPT	221 to 380 gpm @ 133 to 99 ft	140 ft	**55JJ61**	**55JJ62**	—

** Use "Best Efficiency Range GPM @ Head" for optimum performance. + To convert to psi, divide total feet of head by 2.31.*

Dayton®

Pedestal Pumps for Direct or Pulley Drives

- Max. casing pressure: 150 psi
- Max. liquid temp: 180°F (except 10X669 and 10X670 are 200°F)

Pumps operate at speeds up to 4000 rpm. Feature durable, permanently lubricated, sealed ball bearings, ¾"-dia. 316 stainless steel shaft, and Type 21 Viton mechanical seals. Motor sold separately. Pumps are suitable for use in chemical processing, liquid transfer, pressure boosting, and circulating heated or chilled water.

10X667

HP Req.	Inlet	Outlet	GPM of Water @ 10 ft. of Head+	GPM of Water @ 30 ft. of Head+	GPM of Water @ 60 ft. of Head+	Max. Head	Housing Material: BRONZE Item No.	Housing Material: STAINLESS STEEL Item No.	Housing Material: CAST-IRON Item No.
1 ½ hp	1¼ in	1 in	55.7	49.5	37.6	103 ft	**10X667**	**10X669**	**10X671**
5 hp	1½ in	1¼ in	104	96	82	135 ft	**10X668**	**10X670**	**10X672**

+ To convert to psi, divide total ft. of head by 2.31. Performance data at 3450 rpm.

Straight Centrifugal Pumps

1N524

- Cast-iron housing, bronze impeller
- 300 series stainless steel shaft and sleeve
- Mechanical shaft seal with stainless steel, Buna N, carbon/ceramic parts
- Max. liquid temp.: 212°F (100°C)

Pumps have continuous-duty motors to handle liquid transfer, water circulation, booster service, irrigation, spray system, jockey pump, and other general-purpose pumping applications. Close-coupled design has back pull-out for easy maintenance. Vent and drain plugs in all positions. Piping is female thread (NPT), except for 3" outlets which are 12516 ANSI flat-faced flanges.

3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

3- to 20-HP motors: Max. case working pressure is 175 psig; max. suction pressure is 100 psig; discharge can be rotated in 90° increments. Renewable bronze wear ring. Blue baked-on electrocoat paint finish.

⅓- to 2-HP motors: Max. case working pressure is 125 psig, except as noted below; discharge can be rotated in 45° increments, except as noted below. Motors are 3500 rpm with NEMA 56J frame, except ODP 3CCV8 is 3500/2900 rpm, 90° increments; TEFC 49UU60, 2VRU5, 49UU50, and 2VRU1 are 3450 rpm with NEMA 143 frame, 4 position increments; and TEFC 3CCV7 3500/2900 rpm, 90° increments.

Note: 1N497, 53DL78, 3CCU7, and 49UU50 have a high head impeller.

						1-PHASE, ODP (OPEN DRIPPROOF)					3-PHASE, ODP (OPEN DRIPPROOF)				
HP	Inlet Size	Outlet Size	Max. GPM @ Head	Min. GPM @ Head	Best Efficiency GPM @ Head*	Max. Head†	Voltage	Amps	Mfr. Model	Item No.	Max. Head†	Voltage	Amps	Mfr. Model	Item No.
⅓ hp	1¼ in NPT	1 in NPT	29 @ 20 ft	10 @ 37 ft	20 @ 30 ft	40 ft	120/240V AC	10.8/5.4	1BF40312	**1N524**	40 ft	208 to 240/480V AC	2.0-1.9/0.95	1BF40334	**1N523**
	1¼ in NPT	1 in NPT	37 @ 20 ft	10 @ 48 ft	22 @ 40 ft	52 ft	120/240V AC	10.8/5.4	1BF10312	**1N544**	52 ft	208 to 240/480V AC	2.0-1.9/0.95	1BF10334	**1N543**
½ hp	1¼ in NPT	1 in NPT	43 @ 20 ft	10 @ 57 ft	25 @ 47 ft	60 ft	120/240V AC	10.8/5.9-5.4	1BF10512	**1N542**	60 ft	208 to 240/480V AC	2.6-2.4/1.2	1BF10534	**1N541**
	1½ in NPT	1¼ in NPT	60 @ 17 ft	20 @ 28 ft	42 @ 22 ft	29 ft	120/240V AC	10.8/5.9-5.4	2BF40512	**1N502**	29 ft	208 to 240/480V AC	2.6-2.4/1.2	2BF40534	**1N501**
	1½ in NPT	1¼ in NPT	66 @ 20 ft	20 @ 34 ft.	50 @ 30 ft	36 ft	120/240V AC	10.8/5.9-5.4	2BF10512	**1N520**	36 ft	208 to 240/480V AC	1.8-1.8/.85	2BF10534	**3CCV8**
¾ hp	1¼ in NPT	1 in NPT	50 @ 30 ft	10 @ 80 ft	32 @ 65 ft	83 ft	120/240V AC	14.0/7.5-7.0	1BF10712	**1N540**	83 ft	208 to 240/480V AC	3.7-3.6/1.8	1BF10734	**1N539**
	1½ in NPT	1¼ in NPT	80 @ 30 ft	20 @ 52 ft	55 @ 45 ft	52 ft	120/240V AC	14.0/7.5-7.0	2BF10712	**1N518**	52 ft	208 to 240/480V AC	3.7-3.6/1.8	2BF10734	**1N517**
1 ½ hp	1¼ in NPT	1 in NPT	58 @ 40 ft	10 @ 116 ft	37 @ 95 ft	118 ft	120/240V AC	21.2/11.1-10.6	1BF11512	**1N536**	118 ft	208 to 240/480V AC	6-5.8/2.9	1BF11534	**1N535**
1 hp	1¼ in NPT	1 in NPT	55 @ 40 ft	10 @ 106 ft	35 @ 85 ft	108 ft	120/240V AC	17.4/9.0-8.7	1BF11012	**1N538**	108 ft	208 to 240/480V AC	4.4-4.2/2.1	1BF11034	**1N537**
1 ½ hp	1½ in NPT	1¼ in NPT	96 @ 50 ft	20 @ 78 ft	66 @ 70 ft	79 ft	120/240V AC	21.2/11.1-10.6	2BF11512	**1N514**	79 ft	208 to 240/480V AC	6.0-5.8/2.9	2BF11534	**1N513**
1 hp	1½ in NPT	1¼ in NPT	84 @ 40 ft	20 @ 60 ft	60 @ 53 ft	61 ft	120/240V AC	17.4/9.0-8.7	2BF11012	**1N516**	61 ft	208 to 240/480V AC	4.4-4.2/2.1	2BF11034	**1N515**
2 hp	1½ in NPT	1¼ in NPT	100 @ 66 ft	20 @ 101 ft	75 @ 85 ft	102 ft	120/240V AC	26.0/13.8-13	2BF12012	**1N512**	102 ft	208 to 230/460V AC	6.8-6.4/3.2	2BF12034	**1N511**
3 hp	2 in NPT	1½ in NPT	140 @ 25 ft	40 @132 ft	87 @ 104 ft	139 ft	120/208 to 240V AC	28/14.7-14	3BF1H1AOH	**1N497**	139 ft	208 to 240/480V AC	9.5-9.0/4.5	3BF1HBA0H	**53DL78**
	2 in NPT	1½ in NPT	155 @ 35 ft	40 @ 110 ft	110 @ 85 ft	113 ft	120/208 to 240V AC	28/14.7-14	3BF1H1C0	**3CCT9**	113 ft	208 to 240/480V AC	9.5-9.0/4.5	3BF1HBC0	**53DL79**
	3 in NPT	2½ in NPT	190 @ 45 ft	50 @ 60 ft	125 @ 55 ft	61 ft	120/208 to 240V AC	28/14.7-14	4BF1H1K0	**1N483**	61 ft	208 to 240/480V AC	9.5-9.0/4.5	4BF1HBK0	**53DL77**
5 hp	2 in NPT	1½ in NPT	180 @ 66 ft	40 @ 146 ft	125 @ 115 ft	150 ft	120/208 to 240V AC	27.4-27	3BF1J1A0	**1N494**	150 ft	208 to 240/480V AC	12/6	3BF1JBA0	**49UU52**
	3 in NPT	2½ in NPT	220 @ 65 ft	50 @ 85 ft	150 @ 78 ft	89 ft	208 to 240V AC	27.4-27	4BF1J1H0	**1N481**	80 ft	208 to 240/480V AC	12/6	4BF1JBH0	**49UU46**
7 ½ hp	2 in NPT	1½ in NPT	210 @ 63 ft	50 @ 160 ft	130 @ 140 ft	165 ft	240V AC	37	5BF1K1H0	**3CCU1**	165 ft	208 to 240/480V AC	17.2/8.6	5BF1KBH0	**49UU37**
	3 in NPT	2½ in NPT	250 @ 90 ft	50 @ 118 ft	195 @ 103 ft	125 ft	240V AC	42	4BF1K1F0	**1N479**	125 ft	208 to 240/480V AC	17.2/8.6	4BF1KBF0	**49UU45**
	4 in Flange	3 in Flange	450 @ 30 ft	100 @ 90 ft	300 @ 73 ft	91 ft	240V AC	37	6BF1K1E0	**3CCU2**	91 ft	208 to 240/480V AC	17.2/8.6	6BF1KBE0	**49UU31**
10 hp	2 in NPT	1½ in NPT	230 @ 90 ft	50 @ 200 ft	150 @ 170 ft	200 ft	240V AC	46	5BF1L1C0	**3CCU4**	200 ft	208 to 240/480V AC	25/12.5	5BF1LBC0	**49UU39**
	3 in NPT	2½ in NPT	290 @ 110 ft	100 @ 148 ft	220 @ 128 ft	149 ft	240V AC	46	4BF1L1D0	**3CCU3**	149 ft	208 to 240/480V AC	25/12.5	4BF1LBD0	**49UU48**
15 hp	2 in NPT	1½ in NPT	255 @ 160 ft	50 @ 260 ft	180 @220 ft	—	—	—	—	—	260 ft	208 to 240/480V AC	35/17.5	5BF1MBB0	**49UU38**
	4 in Flange	3 in Flange	580 @ 55 ft	150 @ 157 ft	400 @ 125 ft	—	—	—	—	—	160 ft	208 to 240/480V AC	35/17.5	6BF1MBB0	**49UU32**
20 hp	2 in NPT	1½ in NPT	235 gpm @ 200 ft	100 gpm @ 225 ft	180 @ 240 ft	—	—	—	—	—	275 ft	240/460V AC	45.0/22.5	5BF1NBA0	**429H98**

						1-PHASE, TEFC (TOTALLY ENCLOSED FAN-COOLED)					3-PHASE, TEFC (TOTALLY ENCLOSED FAN-COOLED)				
HP	Inlet Size	Outlet Size	Max. GPM @ Head	Min. GPM @ Head	Best Efficiency GPM @ Head*	Max. Head†	Voltage	Amps	Mfr. Model	Item No.	Max. Head†	Voltage	Amps	Mfr. Model	Item No.
½ hp	1¼ in NPT	1 in NPT	20 @ 20 ft	10 @ 37 ft	20 @ 30 ft	40 ft	120/240V AC	10.0/5.2-5.0	1BF50512	**1N522**	40 ft	208 to 240/480V AC	2.8-2.7/1.35	1BF50534	**1N521**
	1¼ in NPT	1 in NPT	37 @ 20 ft	10 @ 48 ft	22 @ 40 ft	52 ft	120/240V AC	10.0/5.2-5.0	1BF20512	**1N534**	52 ft	208 to 240/480V AC	2.8-2.7/1.35	1BF20534	**1N533**
¾ hp	1¼ in NPT	1 in NPT	43 @ 20 ft	10 @ 57 ft	25 @ 47 ft	60 ft	120/240V AC	12.8/6.7-6.4	1BF20712	**1N532**	60 ft	208 to 230/480V AC	3.7-3.6/1.8	1BF20734	**1N531**
	1½ in NPT	1¼ in NPT	60 @ 17 ft	20 @ 28 ft	42 @ 22 ft	29 ft	120/240V AC	10.2/5.3-5.1	2BF50712	**3CCV7**	29 ft	208 to 240/480V AC	3.7-3.6/1.8	2BF50734	**1N499**
	1½ in NPT	1¼ in NPT	66 @ 20 ft	20 @ 34 ft	50 @ 30 ft	36 ft	120/240V AC	12.8/6.7-6.4	2BF20712	**1N510**	36 ft	208 to 240/480V AC	3.7-3.6/1.8	2BF20734	**1N509**
1 hp	1¼ in NPT	1 in NPT	50 @ 30 ft	10 @ 80 ft	32 @ 65 ft	83 ft	120/240V AC	15/8.3-7.5	1BF21012	**1N530**	—	—	—	—	—
1 ½ hp	1¼ in NPT	1 in NPT	55 @ 40 ft	10 @ 106 ft	35 @ 85 ft	108 ft	120/240V AC	20/11-10.0	1BF21512	**1N528**	—	—	—	—	—
1 hp	1½ in NPT	1¼ in NPT	80 @ 30 ft	20 @ 52 ft	55 @ 45 ft	52 ft	120/240V AC	15.0/8.3-7.5	2BF21012	**1N508**	—	—	—	—	—
1 ½ hp	1½ in NPT	1¼ in NPT	84 @ 40 ft	20 @ 60 ft	60 @ 53 ft	61 ft	120/240V AC	20.0/11.0-10.0	2BF21512	**1N506**	—	—	—	—	—
	1½ in NPT	1¼ in NPT	90 gpm @ 35 ft	12 gpm @ 62 ft	60 @ 55 ft	—	—	—	—	—	62 ft	208 to 230/480V AC	4.5-4.8/2.4	2BF81534	**429H99**
1 hp	2 in NPT	1 in NPT	55 @ 40 ft	20 @ 56 ft	35 @ 50 ft	65 ft	120/240V AC	14.0/7.0	22BF1E4K0	**2VRU1**	190 ft	240/460V AC	4.4-4.2/2.1	22BF1E9K0	**49UU59**
1 ½ hp	2 in NPT	1 in NPT	65 @ 50 ft	20 @ 74 ft	45 @ 65 ft	85 ft	120/240V AC	18.0/9.0	22BF1F4H0	**2VRU3**	190 ft	240/460V AC	5.6-5.4/2.7	22BF1F9H0	**49UU60**
2 hp	1¼ in NPT	1 in NPT	58 @ 40 ft	10 @ 116 ft	37 @ 95 ft	118 ft	120/240V AC	22.8/11.7-11.4	1BF22012	**1N526**	118 ft	208 to 240/480V AC	4.4-4.2/2.1	1BF82034	**52TW77**
	1½ in NPT	1¼ in NPT	96 @ 50 ft	20 @ 78 ft	66 @ 70 ft	79 ft	120/240V AC	24.2/12.1	2BF22012	**1N504**	79 ft	240 to 480V AC	4.4-4.2/2.1	2BF82034	**52TW76**
	2 in NPT	1 in NPT	70 @ 67 ft	20 @ 94 ft	55 @ 80 ft	95 ft	120/240V AC	24.2/12.1	22BF1G4F0	**2VRU5**	95 ft	240/460V AC	4.4-4.2/2.1	22BF1G9F0	**49UU61**
3 hp	2 in NPT	1 in NPT	70 @ 75 ft	20 @ 105 ft	65 @ 80 ft	—	—	—	—	—	270 ft	240/460V AC	7.9-7.2/3.6	9BF1H9H0	**49UU64**
	2 in NPT	1 in NPT	70 @ 90 ft	20 @ 120 ft	60 @ 100 ft	100 ft	120/208 to 240V AC	29/14.5	9BF1H4G0	**2VRV2**	—	—	—	—	—
	2 in NPT	1 in NPT	85 @ 100 ft	20 @ 137 ft	70 @ 115 ft	145 ft	120/240V AC	29/14.5	22BF1H4C0	**2VRU7**	190 ft	240/460V AC	7.9-7.2/3.6	22BF1H9C0	**49UU62**
	2 in NPT	1½ in NPT	130 @ 30 ft	40 @ 120 ft	85 @ 95 ft	125 ft	120/208 to 240V AC	28/14.7-14	3BF1H4B0H	**3CCU7**	125 ft	208 to 240/480V AC	7.9-7.2/3.6	3BF1H9B0H	**49UU50**
	2 in NPT	1½ in NPT	150 @ 20 ft	20 @ 92 ft	100 @ 75 ft	95 ft	120/240V AC	28/14.7-14	3BF1H4D0	**3CCU6**	95 ft	208 to 240/480V AC	7.9-7.2/3.6	3BF1H9D0	**49UU51**
	3 in NPT	2½ in NPT	180 @ 45 ft	77 @ 55 ft	130 @ 55 ft	61 ft	120/208 to 240V AC	29/15-14.5	4BF1H4K0	**3CCU8**	125 ft	208 to 240/480V AC	7.9-7.2/3.6	4BF1H9K0	**49UU42**
5 hp	2 in NPT	1 in NPT	83 @ 120 ft	20 @ 160 ft	70 @ 135 ft	160 ft	240V AC	21	9BF1J4F0	**2VRV4**	—	—	—	—	—
	2 in NPT	1 in NPT	86 @ 135 ft	20 @ 180 ft	76 @ 145 ft	—	—	—	—	—	270 ft	240/460V AC	12-11.8/5.9	9BF1J9E0	**49UU65**
	2 in NPT	1 in NPT	95 @ 135 ft	20 @ 165 ft	77 @ 136 ft	165 ft	240V AC	21	22BF1J4B0	**2VRU8**	—	—	—	—	—
	2 in NPT	1 in NPT	100 @ 130 ft	20 @ 185 ft	82 @ 150 ft	—	—	—	—	—	190 ft	240/460V AC	12-11.8/5.9	22BF1J9A0	**49UU63**
	2 in NPT	1½ in NPT	170 @ 58 ft	20 @ 131 ft	120 @ 105 ft	134 ft	208 to 240V AC	21	3BF1J4B0	**3CCU9**	134 ft	208 to 240/480V AC	12-11.8/5.9	3BF1J9B0	**49UU49**
	3 in NPT	2½ in NPT	210 @ 58 ft	50 @ 75 ft	140 @ 70 ft	75 ft	208 to 240V AC	21.0	4BF1J4J0	**1N473**	180 ft	208 to 240/480V AC	12-11.8/5.9	4BF1J9J0	**49UU41**
7 ½ hp	2 in NPT	1 in NPT	95 @ 180 ft	30 @ 220 ft	84 @ 190 ft	225 ft	240V AC	33	9BF1K4C0	**2VRV6**	270 ft	240/460V AC	19.4-18/9	9BF1K9C0	**49UU66**
	2 in NPT	1½ in NPT	195 @ 50 ft	50 @ 140 ft	125 @ 120 ft	140 ft	240V AC	21	5BF1K4D0	**3CCV1**	140 ft	208 to 240/480V AC	19.4-18/9	5BF1K9D0	**49UU34**
	3 in NPT	2½ in NPT	250 @ 75 ft	50 @ 105 ft	180 @ 90 ft	109 ft	240V AC	37	4BF1K4G0	**3CCV2**	109 ft	208 to 240/480V AC	19.4-18/9	4BF1K9G0	**49UU40**
	4 in Flange	3 in Flange	260 @ 65 ft	180 @ 88 ft	250 @ 70 ft	—	—	—	—	—	130 ft	240/460V AC	19.4-18/9	6BF1K9E0	**49UU68**
10 hp	2 in NPT	1 in NPT	110 @ 210 ft	30 @ 280 ft	90 @ 235 ft	285 ft	240V AC	40	9BF1L4A0	**2VRV8**	270 ft	240/460V AC	23.6/11.8	9BF1L9A0	**49UU67**
	2 in NPT	1½ in NPT	210 @ 80 ft	50 @ 170 ft	140 @ 145 ft	170 ft	240V AC	46	5BF1L4G0	**3CCV4**	170 ft	240/460V AC	23.6/11.8	5BF1L9G0	**49UU36**
	3 in NPT	2½ in NPT	270 @ 95 ft	50 @ 125 ft	210 @ 110 ft	130 ft	240V AC	46	4BF1L4E0	**3CCV3**	—	—	—	—	—
	4 in Flange	3 in Flange	—	—	—	—	—	—	—	—	130 ft	208 to 240/480V AC	—	6BF1L9E0	**49UU30**
15 hp	2 in NPT	1½ in NPT	145 @ 110 ft	50 @ 215 ft	150 @ 190 ft	—	—	—	—	—	215 ft	240/460V AC	34.2/17.1	5BF1M9F0	**49UU35**
	3 in NPT	2½ in NPT	320 @ 130 ft	50 @ 173 ft	250 @ 150 ft	—	—	—	—	—	125 ft	240/460V AC	34.2/17.1	4BF1M9C0	**49UU43**
	4 in Flange	3 in Flange	600 @ 42 ft	280 @ 150 ft	350 @ 125 ft	—	—	—	—	—	130 ft	240/460V AC	34.2/17.1	6BF1M9B0	**49UU70**
20 hp	2 in NPT	1½ in NPT	230 @ 184 ft	0 @ 276 ft	187 @ 234 ft	—	—	—	—	—	295 ft	240/460V AC	50.1-46.0/23.0	5BF1N9A0	**52XF11**

** Use "Best Efficiency GPM @ Head" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

Straight Center-Discharge Pumps

GOULDS WATER TECHNOLOGY

- Max. case pressure: 75 psi
- TEFC motors (except 4XW69 is ODP)

Continuous-duty motors and drain plugs. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

WETTED MATERIALS
316 stainless steel impeller.

Cast-Iron—Seals are Buna N, stainless steel, carbon, and ceramic.

Stainless Steel—Seals are Viton, stainless steel, carbon, and silicon carbide.

4UB54

HP	Inlet Size (NPT)	Outlet Size (NPT)	Max. Liquid Temp.	Best Efficiency Range GPM @ Head*	GPM of Water @ 30 ft. of Head	GPM of Water @ 40 ft. of Head	Max. Head+	1-Phase 115/230 Amps	1-Phase Mfr. Model	1-Phase Item No.	3-Phase 208-230/460 Amps	3-Phase Mfr. Model	3-Phase Item No.
Cast Iron													
½ hp	1¼ in	1 in	212 °F	18 to 40 @ 62 to 35 ft	44	35	71 ft	10.2/5.1	100MC1C1E0	**4XW69**	—	—	—
	1¼ in	1 in	212 °F	18 to 40 @ 62 to 35 ft	44	36	71 ft	9.4/4.7	100MC1C4E0	**4XW71**	2.7-2.6/1.3	100MC1C5E0	**4XW72**
¾ hp	1¼ in	1 in	212 °F	18 to 42 @ 75 to 42 ft	48	43	84 ft	12.2/6.1	100MC1D4D0	**4XW75**	—	—	—
	1¼ in	1 in	212 °F	18 to 42 @ 75 to 42 ft	48	43	71 ft	—	—	—	2.7-2.6/1.3	100MC1D5D0	**4XW76**
1 hp	1 in	1¼ in	212 °F	24 to 32 @ 60 to 50 ft	42	36	70 ft	—	—	—	3.5-3.4/1.7	100MC1E5E0	**415J05**
1 ½ hp	1 in	1¼ in	212 °F	32 to 40 @ 100 to 90 ft	—	—	122 ft	—	—	—	4.4-4.2/2.1	100MC1F5B0	**415J06**
1 hp	1¼ in	1 in	212 °F	22 to 45 @ 90 to 55 ft	—	52	102 ft	15.2/7.6	100MC1E4C0	**4XW79**	—	—	—
1 ½ hp	1¼ in	1 in	212 °F	27 to 49 @ 110 to 75 ft	—	—	123 ft	14.4/8.7	100MC1F4B0	**4XW83**	—	—	—
1 hp	1¼ in	1 in	212 °F	30 to 34 @ 80 to 75 ft	—	52	100 ft	—	—	—	3.5-3.4/1.7	100MC1E5C0	**415J04**
2 hp	1¼ in	1 in	212 °F	32 to 50 @ 122 to 90 ft	—	—	142 ft	10.0	100MC1G4A0	**3CCT3**	—	—	—
	1¼ in	1 in	212 °F	32 to 52 @ 122 to 89 ft	—	—	142 ft	—	—	—	7.1-6.0/3.0	100MC1G5A0	**52XG21**
Stainless Steel													
½ hp	1¼ in	1 in	250 °F	16 to 39 @ 67 to 38 ft	—	37	62 ft	9.4/4.7	100MS1C4E4	**4UB56**	2.7-2.6/1.3	100MS1C5E4	**4UB54**
¾ hp	1¼ in	1 in	250 °F	17 to 45 @ 85 to 50 ft	—	—	95 ft	12.2/6.1	100MS1D4D4	**4UB60**	2.7-2.6/1.3	100MS1D5D4	**4UB58**
1 hp	1¼ in	1 in	250 °F	19 to 45 @ 101 to 62 ft	—	—	114 ft	15.2/7.6	100MS1E4C4	**4UB64**	—	—	—
1 ½ hp	1¼ in	1 in	250 °F	21 to 46 @ 119 to 80 ft	—	—	136 ft	14.4/8.7	100MS1F4B4	**4UB68** †	—	—	—
1 hp	1¼ in	1 in	212 °F	29 to 37 @ 88 to 80 ft	—	—	112 ft	—	—	—	3.5-3.4/1.7	100MS1E5C4	**415J07**
1 ½ hp	1¼ in	1 in	212 °F	38 to 42 @ 105 to 95 ft	—	—	135 ft	—	—	—	4.4-4.2/2.1	100MS1F5B4	**415J10**
3 hp	1¼ in	1 in	250 °F	20 to 47 @ 130 to 100 ft	—	—	157 ft	13.8	100MS1H4A4	**4UB72** **	9.6-8.6/4.3	100MS1H5A4	**52XG18**

** Use "Best gpm @ Head ft." for optimum performance. + To convert to psi, divide total feet of head by 2.31. ** 1-phase 230V. † 1-phase 115/208-230V.*

Self-Priming Pumps

Dayton®

- TEFC motors with 300 stainless steel motor shaft
- Max. case working pressure: 75 psi
- Max. temp.: 200°F
- Max. viscosity: 100 SSU
- Max. solids: ⅜" dia.

Close-coupled pumps self-prime to 6 ft. Feature clog-resistant open impellers, 1½" inlet/outlet ports, and drain plug. 1-phase motors have thermal overload protection. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

WETTED MATERIALS

Cast-Iron—Impellers with Buna N, stainless steel, carbon, and ceramic mechanical seals.

Bronze and Stainless Steel—Stainless steel impeller. Seals are Viton, stainless steel, carbon, and ceramic.

Seal Material	Max. Temp. (°F)	Min. Temp. (F)	Item No.
Buna, Carbon, Ceramic	140 °F	-25 °F	**3ACF4**
Carbon, Ceramic, Viton	180 °F	-40 °F	**3ACF5**
Silicon Carbide, Viton	200 °F	-40 °F	**3ACF7**
Carbon, Ceramic, PTFE	250 °F	-40 °F	**3ACF6**

2ZXT6

HP	Phase	Voltage	Best Efficiency Range GPM @ Head*	Max Head†	Cast-Iron Housing Amps	Cast-Iron Housing Item No.	Bronze Housing Amps	Bronze Housing Item No.	316 Stainless Steel Housing Amps	316 Stainless Steel Housing Item No.
⅓ hp	1	115/208 to 230V AC	34 to 14 @ 20 to 36 ft	45 ft	8.0/3.5-4.0	**5WXU4**	8.0/3.5-4.0	**5WXU6**	8.0/3.5-4.0	**5WXU2**
½ hp	1	115/208 to 230V AC	38 to 12 @ 23 to 44 ft	50 ft	8.6/4.0-4.3	**5WXU5**	8.6/4.0-4.3	**5WXU7**	8.6/4.0-4.3	**5WXU3**
¾ hp	1	115/208 to 230V AC	14 to 52 @ 45 to 20 ft	52 ft	10.7/5.2-5.3	**2ZXP1**	10.7/5.2-5.3	**2ZXP9**	10.7/5.2-5.3	**2ZXR8**
	3	208 to 230/460V AC	14 to 52 @ 45 to 20 ft	52 ft	2.5-2.4/1.2	**2ZXP2**	2.5-2.4/1.2	**2ZXR1**	2.5-2.4/1.2	**2ZXR9**
1 hp	1	115/208 to 230V AC	21 to 62 @ 45 to 22 ft	52 ft	12.2/6.3-6.1	**2ZXP3**	12.2/6.3-6.1	**2ZXR2**	12.2/6.3-6.1	**2ZXT1**
	3	208 to 230/460V AC	21 to 62 @ 45 to 22 ft	52 ft	3.3-3.2/1.6	**2ZXP4**	3.3-3.2/1.6	**2ZXR3**	3.3-3.2/1.6	**2ZXT2**
1 ½ hp	1	115/208 to 230V AC	28 to 73 @ 45 to 25 ft	52 ft	13.5/7.6-6.7	**2ZXP5**	13.5/7.6-6.7	**2ZXR4**	13.5/7.6-6.7	**2ZXT3**
	3	208 to 230/460V AC	28 to 73 @ 45 to 25 ft	52 ft	4.5-4.6/2.3	**2ZXP6**	4.2/2.1	**2ZXR5**	4.2/2.1	**2ZXT4**
2 hp	1	115/208 to 230V AC	26 to 99 @ 60 to 30 ft	63 ft	16.6/9.4-8.3	**2ZXP7**		—	16.6/9.4-8.3	**2ZXT5**
	3	208 to 230/460V AC	26 to 99 @ 60 to 30 ft	63 ft	5.0/2.5	**2ZXP8**	5.0/2.5	**2ZXR7**	5.0/2.5	**2ZXT6**

** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

Self-Priming Pumps and Pedestal Pumps

Dayton®

Pumps with 1" NPT port self-prime to 7 ft.; pumps with 1½", 2", and 3" NPT ports self-prime to 20 ft. For high-volume industrial and commercial applications including liquid and chemical transfer. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. Replacement seals are available on Grainger.com.

Cast-Iron—Mechanical seals are carbon, ceramic, and Buna N. Semiopen impellers. Stainless steel shaft, except 12N810, 12N812, and 12N814 have a steel with stainless steel shaft and built-in check valve.

Stainless Steel—Mechanical seals are carbon, ceramic, and Viton. Semiopen impellers. Stainless steel shaft, except 12N811, 12N813, and 12N815 have a steel with stainless steel shaft and built-in check valve.

Pedestal Pumps—Seals are Buna N, stainless steel, carbon, and ceramic.

- Require 3450 rpm motors
- 1 and 2 HP models have ⅝" shaft, 3 HP model has ¾" shaft

4UA72

HP	Phase	Voltage (VAC)	Amps	Motor Encl.	Frame	Inlet Size (NPT)	Outlet Size (NPT)	Max. Dia. Solids	Best Efficiency Range GPM @ Head*	Max. Head†	Max. Temp	Cast-Iron Housing and Impeller Item No.	Stainless Steel Housing and Impeller Item No.
⅓ hp	1	115/230V AC	7.5/3.8	ODP	56J	1 in	1 in	⅛ in	18 to 25 gpm @ 35 to 32 ft	41 ft	200 °F	—	**5GUP0**
	1	115/230V AC	7.5/3.8	ODP	56J	1 in	1 in	⅛ in	26 to 30 gpm @ 30 to 27 ft	41 ft	200 °F	**4UA63**	—
½ hp	1	115/230V AC	8.4/4.8	ODP	56J	1½ in	1½ in	⅛ in	18 to 38 gpm @ 60 to 40 ft	78 ft	200 °F	**4UA67**	**4UA68**
¾ hp	1	115/230V AC	11.3/5.6	ODP	56J	1½ in	1½ in	⅛ in	30 to 50 gpm @ 62 to 50 ft	82 ft	200 °F	**4UA69**	**4UA70**
	3	208 to 230/460V AC	2.7-2.5/1.2	ODP	56J	1½ in	1½ in	⅛ in	30 to 50 gpm @ 62 to 50 ft	82 ft	200 °F	**4UA64**	—
	3	208 to 230/460V AC	2.7-2.5/1.2	ODP	56J	1½ in	1½ in	⅛ in	38 to 55 gpm @ 63 to 49 ft	82 ft	200 °F	—	**5GUP1**
1 ½ hp	1	115/208 to 230V AC	17.0/9.0-8.5	ODP	56J	1½ in	1½ in	⅛ in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	**4UA71**	—
	1	115/230V AC	13.5/6.4	ODP	56J	1½ in	1½ in	⅛ in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	—	**4UA72**
	3	208 to 230/460V AC	4.4-3.9/2.0	ODP	56J	1½ in	1½ in	⅛ in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	**4UA73**	—
	3	230/460V AC	3.9/2.0	ODP	56J	1½ in	1½ in	⅛ in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	—	**4UA74**
1 hp	1	115/230V AC	14.4/7.2	ODP	56J	1½ in	1½ in	⅛ in	39 to 51 gpm @ 70 to 58 ft	90 ft	200 °F	—	**5GUP2**
	1	115/230V AC	14.4/7.2	ODP	56J	1½ in	1½ in	⅛ in	41 to 52 gpm @ 70 to 60 ft	90 ft	200 °F	**4UA65**	—
	3	208 to 230/460V AC	3.7-3.2/1.6	ODP	56J	1½ in	1½ in	⅛ in	39 to 51 gpm @ 70 to 58 ft	90 ft	200 °F	—	**5GUP3**
	3	208 to 230/460V AC	3.7-3.2/1.6	ODP	56J	1½ in	1½ in	⅛ in	41 to 52 gpm @ 70 to 60 ft	90 ft	200 °F	**4UA66**	—
2 hp	1	115/230V AC	20/10	ODP	56J	2 in	2 in	⅛ in	63 to 100 gpm @ 60 to 46 ft	72 ft	200 °F	**4UA76**	**4UA75**
	3	208 to 230/460V AC	5.9-5.2/2.5	ODP	56J	2 in	2 in	⅛ in	58 to 100 gpm @ 60 to 46 ft	72 ft	200 °F	**4UA77**	—
	3	208 to 230/460V AC	5.9-5.2/2.5	ODP	56J	2 in	2 in	⅛ in	64 to 90 gpm @ 60 to 49 ft	72 ft	200 °F	—	**5GUP4**
3 hp	3	208 to 230/460V AC	8.2-7.4/3.7	TEFC	182JM	3 in	3 in	⅜ in	99 to 155 gpm @ 51 to 37 ft	65 ft	180 °F	**12N810**	**12N811**
5 hp	3	208 to 230/460V AC	13.4-12.6/6.3	TEFC	184JM	3 in	3 in	⅜ in	105 to 142 gpm @ 69 to 59 ft	88 ft	180 °F	**12N812**	**12N813**
7 ½ hp	3	208 to 230/460V AC	18.8-17.8/8.9	TEFC	184JM	3 in	3 in	⅜ in	129 to 187 gpm @ 86 to 71 ft	110 ft	180 °F	**12N814**	**12N815**

HP Req.	Bearing Type	Inlet	Outlet	Max. Dia. Solids	Best Efficiency GPM @ Head	Item No.
Pedestal Pumps (No Motor Included); Cast-Iron Housing & Impeller						
1 hp	Sealed Ball	1 ¼ in	1 ¼ in	⅜	14 @ 36 ft	**5PXX7**
2 hp	Sealed Ball	1 ½ in	1 ½ in	⅜	52 @ 62 ft	**5PXX6**
3 hp	Sealed Ball	2 in	2 in	⅜	60 @ 75 ft	**5PXX8**

** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

Self-Priming Sewage and Trash Pumps

Dayton

- Temp. range: 40° to 160°F
- TEFC motor enclosure

4YU36

Pumps have continuous-duty motors and internal check valves to handle high volumes of liquids containing sewage and other solids, up to 8% max.; self-prime to 20 ft. They are close-coupled for simple installation and can be truck-mounted. All include a suction strainer. 12N807 to 12N809 feature a cleanout with 2 twist knobs for easy access. Provide support to such applications as process, liquid transfer, irrigation, clear or gray water, and sewage treatment in industrial and commercial facilities. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. Replacement seals are available on Grainger.com.

HP	Inlet Size	Outlet Size	Phase	Voltage	Amps‡	Frame	Max Head	Max. Dia. Solids	Best Efficiency GPM @ Head*	Max. Head†	Item No.
3	2 in NPT	2 in NPT	3	208-230/460	8.3-7.6/3.8	56J	60 ft	1	55 @ 39 ft	60	**4YU36**
3	2 in NPT	2 in NPT	1	230	12.5	56J	60 ft	1	55 @ 39 ft	60	**4YU37**
5	2 in NPT	2 in NPT	3	208-230/460	13.4-12.6/6.3	184JM	105 ft	1	93 @ 66 ft	105	**12N806**
7.5	3 in NPT	3 in NPT	3	208-230/460	18.8-17.8/8.9	184JM	92 ft	1⅓	218 @ 39 ft	92	**12N807**
10	3 in NPT	3 in NPT	3	208-230/460	25.6-24.4/12.2	215JM	109 ft	1⅓	250 @ 55 ft	109	**12N808**
15	4 in NPT	4 in NPT	3	230/460	34.6/17.3	215JM	120 ft	1⅓	410 @ 49 ft	120	**12N809**

** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide by 2.31, at 0 gpm. ‡ Amps may vary by motor manufacturer.*

1N441

5RWG5

Self-Priming Lawn Sprinkler/Booster Pumps

Dayton | GOULDS WATER TECHNOLOGY

- Cast-iron housings

Pumps hold prime for efficient water transfer. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

DAYTON

- Max. fluid temp.: 180°F
- Max. casing pressure: 150 psi

Feature an easy clean-out design with a front drain plug and removable, replaceable cast-iron volute/diffusers and adapters. 1-phase pumps have built-in thermal overload protection.

GOULDS

- Max. fluid temp.: 140°F
- Max. casing pressure: 125 psi

1-phase capacitor-start models have built-in overload protection with automatic reset. 3-phase units do not have overload protection and require a pump control box, sold separately on page 160.

							1 PHASE 115/208-230			1 PHASE 115/230VAC			3 PHASE 208-230/460		
HP	Motor Encl.	Inlet Size	Outlet Size	Best Efficiency GPM @ Head	Max. Head	Brand	Amps	Mfr. Model	Item No.	Amps	Mfr. Model	Item No.	Amps	Mfr. Model	Item No.
½ hp	TEFC	1½ in NPT	1½ in NPT	33 @ 55 ft	64 ft	Dayton	10.5/5.8-5.3	5RWH6	**5RWH6**	—	—	—	3.8-3.5 /1.8	5RWH7	**5RWH7**
¾ hp	ODP	1½ in NPT	1½ in NPT	40 @ 60 ft	104 ft	Goulds	14.8/7.4	GT07	**1N441** †	—	—	—	3.7-3.6/1.8	GT073	**6MR22**
¾ hp	TEFC	1½ in NPT	1½ in NPT	26 @ 46 ft	83 ft	Dayton	14.2/7.8-7.1	5RWG5	**5RWG5**	—	—	—	5.2-5.0/2.5	5RWH8	**5RWH8**
1 ½ hp	ODP	1½ in NPT	1½ in NPT	50 @ 92 ft	122 ft	Goulds	21.4/10.7	GT15	**1N439** †	—	—	—	6.0-5.8/2.9	GT153	**6MR24**
1 hp	ODP	1½ in NPT	1½ in NPT	50 @ 55 ft	118 ft	Goulds	16.2/8.1	GT10	**1N440** †	—	—	—	4.4-4.2/2.1	GT103	**6MR23**
1 hp	TEFC	1½ in NPT	1½ in NPT	32 @ 69 ft	101 ft	Dayton	—	—	—	19.2/9.6	5RWG6	**5RWG6**	—	—	—
1 ½ hp	TEFC	1½ in NPT	1½ in NPT	35 @ 69 ft	104 ft	Dayton	—	—	—	19.9/9.9	5RWG7	**5RWG7**	7.5-7.2/3.6	5RWG8	**5RWG8**
1 hp	TEFC	1½ in NPT	1½ in NPT	22 @ 71 ft	92 9⁄10 ft	Dayton	—	—	—	—	—	—	4.2/2.1	5RWH9	**5RWH9**
2 hp	ODP	1½ in NPT	1½ in NPT	65 @ 97 ft	125 ft	Goulds	12.9	GT20	**1N438** *	—	—	—	6.8-6.4/3.2	GT203	**1N437**
2 hp	TEFC	1½ in NPT	1½ in NPT	42 @ 80 ft	118 ft	Dayton	26.2/13.6 -13.1	5RWG9	**5RWG9**	—	—	—	9.7-9.1/4.6	5RWJ0	**5RWJ0**
2 hp	TEFC	1½ in NPT	1½ in NPT	40 @ 105 ft	147 ft	Dayton	22.8/12.5-11.4	5RWH0	**5RWH0**	—	—	—	10.6-9.7/4.8	5RWH1	**5RWH1**
3 hp	ODP	1½ in NPT	1½ in NPT	70 @ 102 ft	129 ft	Goulds	13.3	GT30	**1N436** *	—	—	—	9.6-9.4/4.7	GT303	**1N435**
3 hp	TEFC	1½ in NPT	1½ in NPT	50 @ 119 ft	169 ft	Dayton	—	—	—	—	—	—	12.0-10.6/5.3	5RWH3	**5RWH3**
3 hp	TEFC	1½ in NPT	1½ in NPT	38 @ 119 ft	169 ft	Dayton	28.8/14.8-14.4	5RWH2	**5RWH2**	—	—	—	—	—	—
5 hp	TEFC	2 in NPT	2 in NPT	63 @ 105 ft	161 ft	Dayton	—	—	—	—	—	—	14.7-13.4/6.7	5RWH4	**5RWH4**
7 ½ hp	TEFC	2 in NPT	2 in NPT	85 @ 117 ft	180 ft	Dayton	—	—	—	—	—	—	20.6-18.8/9.4	5RWH5	**5RWH5**

** 230V only. † 115/230V only.*

Self-Priming Thermoplastic Pumps

Dayton

5RWP3

- Max. operating temp.: 140°F
- Max. suction lift: 20 ft.
- Heavy-duty TEFC, 3450 rpm motors

Fiberglass-reinforced pump bodies are specially fitted to resist seawater and saltwater. Durable and corrosion-resistant with stainless steel fasteners, inserts, and shafts. 1-phase pumps have built-in thermal overload protection. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

					1 PHASE 115/208-230		3 PHASE 208-230/460	
HP	Inlet Size	Outlet Size	Best Efficiency GPM @ Head	Max. Head	Amps	Item No.	Amps	Item No.
½ hp	2 in NPT	1½ in NPT	35 @ 46 ft	64 ft	9.4/4.3-4.7	**5UPW3**	3.6-3.2/1.6	**5UPW4**
¾ hp	2 in NPT	1½ in NPT	32 @ 60 ft	97 ft	16.5/9.1-8.3	**5RWP3**	5.2-5.0/2.5	**5UPW5**
1 hp	2 in NPT	1½ in NPT	31 @ 70 ft	106 ft	12.0/6.0	**5RWP4**	—	—
1 ½ hp	2 in NPT	1½ in NPT	39 @ 85 ft	115 ft	18.4/9.5-9.2	**5RWP5**	—	—
2 hp	2 in NPT	2 in NPT	47 @ 70 ft	134 ft	23.0/12.0-11.5	**5UPW1**	9.0-8.8/4.4	**5UPW8**
3 hp	2 in NPT	2 in NPT	55 @ 90 ft	141 ft	28.5/14.8-14.2	**5UPW2**	11.2-10.6/5.3	**5UPW9**

Self-Priming Prime Line Cast-Iron Pumps

GOULDS WATER TECHNOLOGY

1XLY9

- Max. fluid temp.: 160°F
- Max. solids: ¼" dia.
- Suction lift: 25 ft.

All require a balanced impeller keyed to the motor shaft; replaceable silicon wear ring and shaft sleeve help extend pump life. Pull-out back and tapped connections allow easy maintenance. Required check valve (sold separately) retains liquid for fast, reliable priming and automatic repriming if suction is lost. Use in high-flow applications such as lawn irrigation, dewatering, liquid transfer, and plot irrigation. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

					ODP, 1 PHASE, 115/208-230	TEFC, 1 PHASE, 115/230	ODP, 3 PHASE, 208-230/460	TEFC, 3 PHASE, 208-230/460
HP	Inlet	Outlet	Best Efficiency Range GPM @ Head	Max. Head	Item No.	Item No.	Item No.	Item No.
3	2 in NPT	1½ in NPT	80 to 120 gpm @ 108 to 75 ft	138 ft.	**1XLZ8**	**1XLZ9** **	—	**49UU56**
3	2½ in NPT	2 in NPT	100 to 140 gpm @ 90 to 69 ft	105 ft.	**1XLY9**	**1XLZ1** **	—	**49UU53**
5	2½ in NPT	2 in NPT	100 to 140 gpm @ 138 to 104 ft	165 ft.	**1XMA3** *	**1XMA4** †	**49UU57**	**49UU58**
5	3 in NPT	2½ in NPT	120 to 160 gpm @ 120 to 90 ft	148 ft.	**1XLZ4** *	**1XLZ5** †	**49UU54**	**49UU55**

** 230V only. † TEFC 230V only. ** TEFC 115/230V only.*

Fits Pump	Flange Material	Item No.
Check Valve, Flanged		
2 in Inlets	Cast Iron	**1XMA7**
2 ½ in Inlets	Cast Iron	**1XMA8**
3 in Inlets	Cast Iron	**1XMA9**

Transfer Pumps

Dayton

- Max. fluid temp.: 180°F
- Suction lift: 25 ft.
- 115/230V
- ODP, 3450 rpm motors
- NEMA 56Y mounting face
- Self-priming

Centrifugal pumps have a semi-open impeller that resists clogging. Mechanical seal with 304 stainless steel, Viton, and carbon/ceramic parts. Drain plug is easily accessible. Motors are capacitor start/capacitor run, continuous duty rated, with ball bearings and stainless steel motor shafts.

Cast-Iron—Cast-iron housing and impeller. Suitable for chemical transfer; not for use with perchloroethylene or trichloroethylene.

Aluminum—Aluminum housing and impeller. Suitable for chemical transfer; not for use with perchloroethylene or trichloroethylene.

Stainless Steel—Stainless steel housing and impeller. Suitable for transferring perchloroethylene and other nonflammable liquids.

4YKP1

HP	Phase	Amps	Inlet	Outlet	GPM of Water @ Total ft. of Head+ 5	10	15	20	30	40	50	L	W	H	Item No.
Cast-Iron Housing															
⅓	1	7.0/3.5	1½ in NPT	1½ in NPT	35	33	21	17	6	—	—	16 ¾ in	7 5⁄16 in	10 in	**4YKP5**
½	1	8.6/4.3	1½ in NPT	1½ in NPT	47	43	37	27	10	—	—	16 ¾ in	7 5⁄16 in	10 in	**4YKP6**
¾	1	9.0/4.5	1½ in NPT	1½ in NPT	60	55	51	46	29	9	—	17 in	7 5⁄16 in	10 in	**4YKP7**
1	1	14.6/7.3	1½ in NPT	1½ in NPT	69	65	61	55	43	22	—	17 in	7 5⁄16 in	10 in	**4YKP8**
1½	1	16.9/8.6	1½ in NPT	1½ in NPT	86	83	80	75	66	52	32	18 ⅞ in	7 5⁄16 in	10 in	**4YKP9**
Aluminum Housing															
⅓	1	7.0/3.5	1½ in NPT	1½ in NPT	35	33	21	17	6	—	—	16 11⁄16 in	7 5⁄16 in	10 in	**6GPG4**
½	1	8.6/4.3	1½ in NPT	1½ in NPT	47	43	37	27	10	—	—	16 ¾ in	7 5⁄16 in	10 in	**4YKP1**
¾	1	9.0/4.5	1½ in NPT	1½ in NPT	60	55	51	46	29	9	—	17 in	7 5⁄16 in	10 in	**4YKP2**
1	1	14.6/7.3	1½ in NPT	1½ in NPT	69	65	61	55	43	22	—	17 in	7 5⁄16 in	10 in	**4YKP3**
Stainless Steel Housing															
⅓	1	7.0/3.5	1½ in NPT	1½ in NPT	35	33	21	17	6	—	—	16 11⁄16 in	7 5⁄16 in	10 in	**6GPG3**
½	1	8.6/4.3	1½ in NPT	1½ in NPT	47	43	37	27	10	—	—	16 5⁄16 in	7 5⁄16 in	10 in	**4YKN6**
1	1	14.6/7.3	1½ in NPT	1½ in NPT	69	65	61	55	43	22	—	16 ¾ in	7 5⁄16 in	10 in	**4YKN8**
1½	1	16.9/8.6	1½ in NPT	1½ in NPT	86	83	80	75	66	52	32	18 ½ in	7 5⁄16 in	10 in	**4YKN9**

+ To convert to psi, divide total feet of head by 2.31.

Progressive Cavity Pumps

MOYNO®

- Cast-iron housing
- Mechanical seal with carbon, ceramic, and nitrile parts
- Max. liquid temp.: 180°F
- Max. viscosity: 20,000cP

Compact pumps have a rugged design for pulsation-free transfer of slurries and fluids. Models feature a rubber stator for quieter operation. You can easily calibrate the pump since flow is consistent and proportionate to the pump speed. Allow suction lifts up to 26 ft. Ideal for transferring abrasive slurries, coatings, feed additives, industrial waste, lubricants, and swimming pool water.

30EK50

30EK54

30EK58

Min. RPM	Max. RPM	Req. HP @ Higher RPM	Flow Rate @ Min. RPM and 0 PSI	Max. RPM and 0 PSI	Min. RPM and 90 PSI	Max. RPM and 90 PSI	Inlet/Outlet (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Progressive Cavity Pump												
Non-Motorized												
150 RPM	1,750 RPM	½ hp	0.471 gpm	4.7 gpm	0.21 gpm	2.45 gpm	¾ NPT	12 ⅝	4 ¾	5 ⅛	33201	**30EK50**
150 RPM	1,750 RPM	½ hp	0.835 gpm	9.4 gpm	—	—	¾ NPT	12 ⅝	4 ¾	5 ⅛	33301	**30EK51**
150 RPM	1,750 RPM	½ hp	1.483 gpm	15.0 gpm	—	—	¾ NPT	12 ⅝	4 ¾	5 ⅛	34401	**30EK52**
150 RPM	1,750 RPM	1 ¼ hp	2.139 gpm	24.0 gpm	—	—	1½ NPT, 1¼ NPT	17 ½	7 9⁄16	8 1⁄16	35601	**30EK53**
Motorized Progressive Cavity Pump												
115/230V AC												
—	1,750 RPM	½ hp	0.471 gpm	4.7 gpm	0.21 gpm	2.45 gpm	¾ NPT	19 23⁄32	6 ½	7 ⅞	33259	**30EK54**
—	1,750 RPM	½ hp	0.835 gpm	9.4 gpm	—	—	¾ NPT	19 23⁄32	6 ½	7 ⅞	33359	**30EK55**
—	1,750 RPM	½ hp	1.483 gpm	15.0 gpm	—	—	¾ NPT	19 23⁄32	6 ½	7 ⅞	34459	**30EK56**
208/230/440V AC												
—	1,750 RPM	1 ¼ hp	2.139 gpm	24.0 gpm	—	—	1½ NPT, 1¼ NPT	25 7⁄32	6	8 3⁄16	35651	**30EK57**

Includes	For Use With Grainger Item Number	Mfr. Model	Item No.
Pump Repair Kits			
Flexible Joint, Seal, Stator	30EK50, 30EK54	3119027000	**30EK58**
Flexible Joint, Seal, Stator	30EK51, 30EK55	3119029000	**30EK59**
Flexible Joint, Seal, Stator	30EK52, 30EK56	3119031000	**30EK60**
Flexible Joint, Seal, Stator	30EK53	3119033000	**30EK61**
Flexible Joint, Pin for Motor, Pin for Rotor, Seal, Stator	30EK57	3119123000	**30EK62**

Dayton

Chemical-Resistant Centrifugal Pumps

- Motors are 3450 rpm with NEMA 56J frame
- Max. temp.: 140°F polypropylene, 180°F Noryl
- Max. viscosity: 100 SSU
- 1½" ports

Close-coupled pumps feature continuous-duty motors and resist most acids, alkalis, and inorganic solvents. Pump housing has seal flush ports to decontaminate the seal and seat elastomers. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

WETTED MATERIALS

Polypropylene—Glass-filled polypropylene housing and impeller. Buna N, stainless steel, and carbon/ceramic mechanical seals.

Noryl—Glass-filled Noryl housing and impeller, with Viton, Noryl, and carbon/ceramic mechanical seals.

2YER5

2YEU3

2YEW1

3ACF3

Seal Material	For Use With	Max. Temp. (°F)	Min. Temp. (°F)	Item No.
Replacement Pump Shaft Seal				
Carbon, Ceramic, Viton	Poly Pumps	180 °F	-40 °F	**3ACF3**
Silicon Carbide, Viton	Poly Pumps	180 °F	-40 °F	**3ACF2**
Carbon, Ceramic, Viton	Noryl Pumps	180 °F	-40 °F	**3ACE9**
Silicon Carbide, Viton	Noryl Pumps	180 °F	-40 °F	**3ACF1**

HP	Phase	Max. GPM @ Head	Best Efficiency GPM @ Head*	Min. GPM @ Head	Max. Head	POLYPROPYLENE HOUSING, W/MOTOR Motor Encl.	Voltage	Amps	Item No.	NORYL HOUSING, W/MOTOR Motor Encl.	Voltage	Amps	Item No.
⅓ hp	1	22 gpm @ 10 ft	18 gpm @ 30 ft	2 gpm @ 60 ft	62 ft	ODP	115/230	7.5/3.8	**2YER2**	TEFC	115/208-230	8.0/3.5-4.0	**2YEV4**
½ hp	1	26 gpm @ 10 ft	20 gpm @ 35 ft	9 gpm @ 60 ft	68 ft	ODP	115/230	8.4/4.8	**2YER3**	TEFC	115/208-230	8.6/4.0-4.3	**2YEV5**
½ hp	3	26 gpm @ 10 ft	20 gpm @ 35 ft	9 gpm @ 60 ft	68 ft	ODP	208-230/460	1.8-1.7/0.9	**2YER4**	TEFC	208-230/460	1.7-1.6/0.8	**2YEV6**
¾ hp	1	37 gpm @ 10 ft	24 gpm @ 41 ft	6 gpm @ 65 ft	72 ft	ODP	115/230	11.3/5.6	**2YER5**	TEFC	115/208-230	10.7/5.2-5.3	**2YEV7**
¾ hp	3	37 gpm @ 10 ft	24 gpm @ 41 ft	6 gpm @ 65 ft	72 ft	ODP	208-230/460	2.7-2.5/1.2	**2YER6**	TEFC	208-230/460	2.5-2.4/1.2	**2YEV8**
1 hp	1	55 gpm @ 10 ft	38 gpm @ 50 ft	14 gpm @ 70 ft	79 ft	ODP	115/230	14.4/7.2	**2YER7**	TEFC	115/208-230	12.2/6.3-6.1	**2YEV9**
1 hp	3	55 gpm @ 10 ft	38 gpm @ 50 ft	14 gpm @ 70 ft	79 ft	ODP	208-230/460	3.7-3.2/1.6	**2YER8**	TEFC	230/460	3.7-3.2/1.6	**2YEW1**
1 ½ hp	1	85 gpm @ 10 ft	55 gpm @ 55 ft	21 gpm @ 80 ft	84 ft	ODP	115/208-230	17.0/9.0-8.5	**2YER9**	TEFC	115/208-230	13.5/7.6-6.7	**2YEW2**
1 ½ hp	3	85 gpm @ 10 ft	55 gpm @ 55 ft	21 gpm @ 80 ft	84 ft	ODP	208-230/460	4.4-3.9/2.0	**2YEU1**	TEFC	230/460	4.4-3.9/2.0	**2YEW3**
2 hp	1	96 gpm @ 10 ft	58 gpm @ 60 ft	31 gpm @ 80 ft	91 ft	TEFC	115/208-230	16.6/9.4-8.3	**2YEU2**	TEFC	115/208-230	16.6/9.4-8.3	**2YEW4**
2 hp	3	96 gpm @ 10 ft	58 gpm @ 60 ft	31 gpm @ 80 ft	91 ft	TEFC	208-230/460	5.0/2.5	**2YEU3**	TEFC	230/460	5.6/2.8	**2YEW5**
3 hp	1	123 gpm @ 10 ft	80 gpm @ 60 ft	48 gpm @ 80 ft	95 ft	TEFC	230	12.5	**2YEU4**	TEFC	230	12.5	**2YEW6**
3 hp	3	123 gpm @ 10 ft	80 gpm @ 60 ft	48 gpm @ 80 ft	95 ft	TEFC	230/460	7.2/3.6	**2YEU5**	TEFC	208-230/460	7.2/3.6	**2YEW7**

HP Req.	Housing Material	Item No.
Pedestal Pump, No Motor†		
¾ hp	Polypropylene	**2YEU8**
1 hp	Polypropylene	**2YEU9**
1 ½ hp	Polypropylene	**2YEV1**
2 hp	Polypropylene	**2YEV2**
3 hp	Polypropylene	**2YEV3**
½ hp	Noryl	**2YEW9**
1 hp	Noryl	**2YEX2**
1 ½ hp	Noryl	**2YEX3**
3 hp	Noryl	**2YEX5**

** Use "Best gpm @ Head (ft.)" for optimum performance. † Suggested HP for pump heads at stated performance.*

Dayton

4JMV2

High-Volume Chemical-Resistant Centrifugal Pumps and Pump Heads

- Max. case working pressure: 150 psi
- Temp. range: 40° to 200°F
- Max. viscosity: 31 SSU
- Discharge ports rotate in 90° increments

Designed for continuous-duty high-flow applications, including chemical processing, liquid transfer, cooling, and circulating. Pumps are straight centrifugal and feature a 304 stainless steel impeller and impeller nut. Other wetted materials include carbon, ceramic, and Viton. 1-phase motors are capacitor-start, with automatic thermal reset protection and ball bearings. Pump heads require a NEMA 56J motor or 56J pump pedestal with appropriate motor. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Notes: Not recommended for trichloroethylene.

HP	Voltage	Amps	Phase	Inlet	Outlet	Max. GPM @ Head	Best Efficiency GPM @ Head*	Min. GPM @ Head	Max. Head†	Item No.
304 Stainless Steel Housing, ODP										
⅓ hp	115/230	6.0/3.0	1	¾ in NPT	½ in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	**4JMV2**
½ hp	115/230	7.2/3.6	1	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**4JMV3**
	230/460	2.6/1.3	3	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**4JMV4**
¾ hp	115/230	8.2/4.1	1	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**4JMV5**
	230/460	3.0/1.5	3	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**4JMV6**
1 hp	115/230	14.0/7.0	1	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**4JMV7**
1 ½ hp	115/230	17.0/8.5	1	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**4JMV9**
1 hp	230/460	4.8/2.4	3	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**4JMV8**
1 ½ hp	230/460	5.8/2.9	3	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**4JMW1**
2 hp	115/230	21.6/10.8	1	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**4JMW2**
	230/460	8.4/4.2	3	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**4JMW3**
3 hp	230	15	1	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**4JMW4**
	230/460	11.6/5.8	3	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**4JMW5**
304 Stainless Steel Housing, TEFC										
⅓ hp	115/230	6.8/3.4	1	¾ in NPT	½ in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	**4JMW6**
½ hp	115/230	7.5/3.8	1	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**4JMW7**
	208-230/460	3.0-2.8/1.4	3	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**4JMW8**
¾ hp	115/230	9.0/4.5	1	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**4JMW9**
	208-230/460	3.8-3.4/1.7	3	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**4JMX1**
1 hp	115/230	13.0/6.5	1	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**4JMX2**
1 ½ hp	115/230	15.0/7.5	1	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**4JMX4**
1 hp	208-230/460	5.3-5.0/2.5	3	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**4JMX3**
1 ½ hp	208-230/460	7.0-6.6/3.3	3	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**4JMX5**
2 hp	115/230	18.0/9.0	1	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**4JMX6**
	208-230/460	9.6-9.2/4.6	3	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**4JMX7**
3 hp	208-230/460	11.5-10.8/5.4	3	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**4JMX9**
	230	14.5	1	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**4JMX8**
316 Stainless Steel Housing, TEFC										
⅓ hp	115/230	6.8/3.4	1	¾ in NPT	½ in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	**5WXR9**
½ hp	115/230	7.5/3.8	1	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**5WXT0**
	208-230/460	3.0-2.8/1.4	3	¾ in NPT	¾ in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	**5WXT1**
¾ hp	115/230	9.0/4.5	1	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**5WXT2**
	208-230/460	3.8-3.4/1.7	3	1¼ in NPT	¾ in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	**5WXT3**
1 hp	115/230	13.0/6.5	1	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**5WXT4**
1 ½ hp	115/230	15.0/7.5	1	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**5WXT6**
1 hp	208-230/460	2.6/1.3	3	1½ in NPT	1¼ in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	**5WXT5**
1 ½ hp	208-230/460	7.0-6.6/3.3	3	1½ in NPT	1¼ in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	13 gpm @ 60 ft	65 ft	**5WXT7**
2 hp	115/230	18.0/9.0	1	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**5WXT8**
	208-230/460	9.6-9.2/4.6	3	2 in NPT	1½ in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	24 gpm @ 60 ft	68 ft	**5WXT9**
3 hp	208-230/460	11.5-10.8/5.4	3	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**5WXU1**
	230	14.5	1	2 in NPT	1½ in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	38 gpm @ 70 ft	81 ft	**5WXU0**

HP Req.	Inlet	Outlet	Best Efficiency GPM @ Head*	Max. Head†	Item No.
Pump Heads, 304 SS Housing					
⅓ hp	¾ in	½ in	10 @ 26 ft	48	**4JMY1**
½ hp	¾ in	¾ in	28 @ 22 ft	50	**4JMY2**
¾ hp	1 ¼ in	¾ in	30 @ 41 ft	62	**4JMY3**
1 hp	1 ½ in	1 ¼ in	40 @ 40 ft	65	**4JMY4**
1 ½ hp	1 ½ in	1 ¼ in	50 @ 48 ft	65	**4JMY5**
2 hp	2 in	1 ½ in	55 @ 50 ft	68	**4JMY6**
3 hp	2 in	1 ½ in	90 @ 48 ft	81	**4JMY7**

For Use With	Seal Material	Item No.
Pump Shaft Seal Kit		
4JMV2-4JMV9, 4JMW1-4JMW9, 4JMX1-4JMX9	Carbon, Ceramic, Viton	**4JMY8**

** Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

MD Series
2P875

MD-SC Series
4RL30

MD-HC Series
2P043

Little GIANT

Magnetic Drive Corrosives-Handling Pumps

- Max. specific gravity: 1.1
- Max. viscosity: 100 SSU

Eliminate seal-caused friction loss, wear, contamination, and leakage. All are nonsubmersible, except 2P875 can be used submersed or inline. Mount horizontally.

MD Series—For Mildly Corrosive Chemicals—Pumps handle mild acids and alkalis such as photographic and plating solutions. Glass-filled polypropylene pump housing and impeller. Nitrile O-ring gasket. 3-ft., 3-conductor SJT cord. 2P875 has epoxy-encapsulated motor for submersible use.

MD-SC Series—For Semicorrosive Chemicals—Pumps handle mild acids, mild alkalis, and saltwater. Polypropylene pump housing and impeller, nitrile O-ring gasket. Encapsulated ceramic magnet. Ceramic shaft and thrust bearings. All have 6-ft., 3-conductor SJT cords with 3-prong plugs. Open-fan-cooled motors, except 4RL36 has epoxy-encapsulated motor for submersible use.

MD-HC Series—For Highly Corrosive Chemicals—Pumps handle liquids such as photographic and plating solutions, acids, alkalis, brines, and distilled water. Ryton pump housing and impeller, Viton O-ring gasket, and encapsulated ceramic magnet. Motors have 6-ft., 3-conductor SJT cords with 3-prong plugs, except 4RL34, 4RL35, and 2P044 must be field-wired.

HP	Voltage	Inlet	Outlet	Motor Encl.	GPM of Water @ Ft. of Head+ 3	GPM of Water @ Ft. of Head+ 9	Max. Head	Temp. @ 0 psig	Mfr. Model	Item No.
MD Series—For Mildly Corrosive Chemicals										
1/200 hp	115	½ in OD	½ in OD	Open	2.1 gpm	—	5.5 ft	150 °F	588001	**2P037**
1/200 hp	115	½ in OD	½ in OD	Sub	1.75 gpm	—	5 ft	150 °F	588205	**2P875**
1/50 hp	115	⅝ in OD	⅝ in OD	OPFC	5 gpm	—	7 ft	150 °F	581030	**2P580**
1/25 hp	115	⅝ in OD	⅝ in OD	OPFC	7 gpm	6 gpm	19 ft	150 °F	581031	**2P579**
MD-SC Series—For Semicorrosive Chemicals										
1/35 hp	115	½ in MPT	¼ in MPT	Sub	5 gpm	2.7 gpm	12.8 ft	150 °F	589204	**4RL36**
1/25 hp	115	½ in FPT	½ in MPT	OPFC	7.7 gpm	5.5 gpm	14.6 ft	150 °F	580503	**4RL30**
1/12 hp	115	¾ in FPT	½ in MPT	OPFC	11.8 gpm	10 gpm	21.9 ft	150 °F	581503	**2P038**
1/10 hp	115	1 in FPT	½ in FPT	OPFC	13.5 gpm	11.8 gpm	24.3 ft	150 °F	582503	**2P041**
⅛ hp	115	1 in FPT	½ in MPT	OPFC	16.5 gpm	14 gpm	27.5 ft	150 °F	583503	**2P042**
MD-HC Series—For Highly Corrosive Chemicals										
1/30 hp	115	½ in FPT	½ in MPT	OPFC	7.5 gpm	5.5 gpm	14.6 ft	180 °F	580603	**4RL31**
1/25 hp	115	½ in MPT	½ in MPT	OPFC	7.6 gpm	5.9 gpm	16.2 ft	180 °F	578603	**2P039**
1/25 hp	115	½ in FPT	½ in MPT	TEFC	9.1 gpm	6.5 gpm	16.3 ft	180 °F	581604	**2P040**
1/10 hp	115	1 in FPT	½ in MPT	TEFC	13.2 gpm	11.8 gpm	24.3 ft	180 °F	582604	**4RL32**
⅛ hp	115/230	1 in FPT	½ in MPT	TEFC	19.2 gpm	17 gpm	29.3 ft	180 °F	584604	**2P043**
⅓ hp	115/230	1 in FPT	¾ in MPT	TEFC	—	30.5 gpm	40.5 ft	180 °F	585604	**4RL34**
½ hp	115/230	1 in FPT	¾ in MPT	TEFC	—	36.2 gpm	51 ft	180 °F	586604	**4RL35**
¾ hp	115/230	1½ in FNPT	1 in MPT	TEFC	51 gpm	46.5 gpm	58.9 ft	180 °F	587010	**2P044**

+ To convert to psi, divide total feet of head by 2.31.

3AZN4

3AZL7

3AZR3

FINISH THOMPSON INC.

Magnetic Drive, Corrosives-Handling Pumps

- TEFC motors
- Max. temp.: 180°F (polypropylene); 220°F (PVDF)

Sealless mag-drive design eliminates the need for mechanical seals; prevents shaft leaks and reduces maintenance costs.

Polypropylene units feature polypropylene impellers and Viton O-rings. Carbon bushings permit extended run-dry capability.

PVDF units mount horizontally and feature PVDF impellers, Viton O-rings, and PTFE bushings. Not capable of running dry.

FLOODED SUCTION

Close-coupled to standard NEMA motors for installation flexibility. High-efficiency impeller design allows a smaller pump to be used in many applications. Max. viscosity: 100 cps. 5-yr. warranty.

SELF-PRIMING

Can self-prime to 25 ft. of suction lift, based upon 1.0 of specific gravity. Max. viscosity: 50 cps.

								POLYPROPYLENE HOUSING			PVDF HOUSING		
HP	Inlet	Outlet	GPM of Water @ 3 ft. of Head+	GPM of Water @ 24 ft. of Head+	Max. Head	Max. Specific Gravity	Series	115V Item No.	115/208-230V Item No.	208-230/460V Item No.	115V Item No.	115/208-230V Item No.	208-230/460V Item No.
Flooded Suction													
⅛ hp	1 in FNPT	½ in MNPT	15 gpm	—	21 ft	1.2	DB3	**5FZV9**	—	—	**5FZW2**	—	—
¼ hp	1 in FNPT	½ in MNPT	18 gpm	8 gpm	29 ft	1.2	DB4	**5FZW0**	—	—	**5FZW3**	—	—
¼ hp	1 in FNPT	½ in MNPT	19.5 gpm	12.5 gpm	35 ft	1.2	DB5	**5FZW1**	—	—	**5FZW4**	—	—
⅓ hp	1 in FNPT	1 in MNPT	39 gpm	23 gpm	33 ft	1.2	DB6	—	**3AZN4**	**3AZN5**	—	—	—
½ hp	1 in FNPT	1 in MNPT	42 gpm	33 gpm	53 ft	1.2	DB6H	—	**3AZN6**	—	—	—	—
½ hp	1 in FNPT	¾ in MNPT	30 gpm	17 gpm	29 ft	1.8	DB5.5	**15R528**	—	—	**15R532**	—	—
Self-Priming													
1 hp	1 in FNPT	1 in MNPT	55 gpm	46 gpm	50 ft	1.2	SP10	—	**3AZL5**	**3AZL6**	—	**3AZL9**	**3AZN1**
2 hp	1½ in FNPT	1½ in MNPT	105 gpm	100 gpm	68 ft	1.2	SP11	—	—	**3AZL7**	—	—	**3AZN2**
3 hp	1½ in FNPT	1½ in MNPT	120 gpm	120 gpm	90 ft	1.2	SP15	—	—	**3AZL8**	—	—	**3AZN3**
Straight													
½ hp	1 in FNPT	1 in MNPT	42 gpm	33 gpm	53 ft	1.2	DB6H	—	—	**3AZN7**	—	—	—
½ hp	1½ in FNPT	1½ in MNPT	69 gpm	50 gpm	33 ft	1.2	DB7	—	**3AZN8**	**3AZN9**	—	—	—
½ hp	1 in FNPT	1 in MNPT	39 gpm	23 gpm	33 ft	1.6	DB6	—	—	—	—	**3AZR1**	**3AZR2**
¾ hp	1½ in FNPT	1 in MNPT	61 gpm	50 gpm	45 ft	1.5	DB8	—	**3AZP1**	**3AZP2**	—	**3AZR5**	**3AZR6**
¾ hp	1 in FNPT	1 in MNPT	46 gpm	42 gpm	67 ft	1.2	DB9P	—	**3AZP3**	**3AZP4**	—	—	—
¾ hp	1½ in FNPT	1½ in MNPT	69 gpm	50 gpm	33 ft	1.6	DB7	—	—	—	—	**3AZR3**	**3AZR4**
1 hp	1½ in FNPT	1½ in MNPT	95 gpm	85 gpm	52 ft	1.1	DB10	—	**3AZP5**	**3AZP6**	—	—	—
1 ½ hp	1½ in FNPT	1½ in MNPT	95 gpm	85 gpm	52 ft	1.5	DB10	—	—	—	—	—	**3AZR7**
2 hp	2 in FNPT	1½ in MNPT	115 gpm	115 gpm	73 ft	1.2	DB11	—	—	**3AZP7**	—	—	**3AZR8**
3 hp	2 in FNPT	1½ in MNPT	130 gpm	130 gpm	96 ft	1.1	DB15	—	—	**3AZP8**	—	—	—
3 hp	2 in FNPT	1½ in MNPT	128 gpm	128 gpm	90 ft	1.2	DB15	—	—	—	—	—	**3AZR9**
10 hp	2 in FNPT	2 in MNPT	202 gpm	202 gpm	158 ft	1.2	DB22	—	—	**3AZP9**	—	—	**3AZT1**

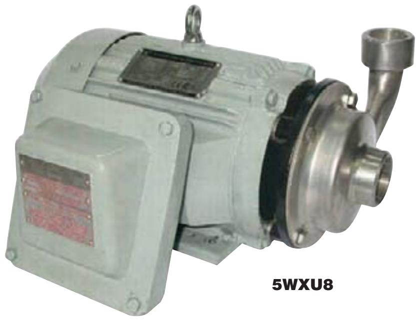
+ To convert to psi, divide total feet of head by 2.31.

Dayton®

Chemical-Resistant, Hazardous Location Pumps

- Stainless steel impeller and shaft
- Mechanical shaft seal with Viton and carbon/ceramic parts
- Max. liquid temp.: 250°F

Pumps have a continuous-duty motor to handle liquid transfer, circulation, chemical processing, cooling, and pressure boosting applications. Discharge can be rotated 360° in 90° increments. Pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. UL Listed for Class I Groups C and D; Class II Groups E, F, and G.



5WXU8

HP	Phase	Voltage	Amps	Inlet	Outlet	GPM of Water @ 20 ft. of Head†	GPM of Water @ 70 ft. of Head†	Best Efficiency GPM @ Head*	Motor Encl.	Item No.
316 Stainless Steel Housing										
1½ hp	3	208-230/460	4.09-3.72/1.86	1½ in NPT	1¼ in NPT	88	3	42 @ 50 ft	TEFC	**5WXU8**
2 hp	3	208-230/460	5.06-4.60/2.30	2 in NPT	1½ in NPT	106	2	49 @ 50 ft	TEFC	**5WXU9**
3 hp	3	208-230/460	7.28-6.62/3.31	2 in NPT	1½ in NPT	122	42	75 @ 60 ft	TEFC	**5WXV0**

** Use "Best Efficiency gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.*

For more pumps, go to Grainger.com® and search for multistage booster pumps.

Booster Pump Selection Guide

(1) Determine pressure boost required above existing pressure.
(2) Determine gpm to be pumped.
(3) Read across top of specification column "GPM of Water @ Discharge Pressure in psi+" for pressure boost required.
(4) Read down column to gpm required.

Example: You have 20 psi supply. You require 40 psi at 10 gpm. Your boost requirement is 20 psi.
Read across pressure boost column to 20 psi. Read down vertical column to gallons required (10 gpm) or next larger size.
Correct pumps are 45MW68, 45MW69, 45MW85, and 45MW86.

45MW84

22W709

Multistage Booster Pumps

- Max. fluid temp.: 140°F
- Max. case pressure: 300 psi
- 65°C temp. rise motors
- ODP motor enclosure

Use to increase pressure from city mains, or pump water from cisterns and private ponds to ensure the proper operation of filtration equipment. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

DAYTON

The multistage design helps provide steady, quiet, and vibration-free operation. Cast-iron housing is ideal for general service, stainless steel for filtration applications. Feature an O-ring casing seal for reliable, high-pressure sealing with easy disassembly for repair or maintenance. Diffusers are glass-filled engineered composite material with a fixed impeller design and high resistance to abrasion and corrosion. Bowls have 300 stainless steel rabbit lock for positive alignment with no gaskets needed. Mechanical seal with carbon/ceramic and Viton parts; stainless steel spring. Pumps are self-priming to 10 ft. when the pump housing and suction line is filled with water and a foot valve is used. cULus Components Recognized for Motor.

FLINT & WALLING

Pumps feature continuous-duty dual-voltage motors with shielded ball bearings. Replaceable pump cartridge has 304 SS radial bearing and Noryl and Delrin impellers and diffusers. 1-phase units have thermally protected capacitor-start motors. Cast-iron housings feature cast-iron suction and discharge; mechanical seal uses Buna N and carbon/silicon. Stainless steel housings feature 304 SS suction and discharge. All are suitable for pressure boosting, pressure cleaning, mist systems, evaporative cooling, reverse osmosis, and water circulation. CSA Certified to UL standards for U.S. and Canada.

For Use With Grainger No.	Item No.
Dayton, Booster Pump Replacement Parts	
Booster Cartridge Assemblies	
45MW66	**41TK76**
45MW67	**41TK77**
45MW68, 45MW69	**41TK78**
45MW72, 45MW73	**41TK80**
45MW74, 45MW75	**41TK81**
45MW78, 45MW79	**41TK83**
45MW80, 45MW81	**41TK84**
45MW82, 45MW83	**41TK85**
45MW84	**41TK86**
45MW85, 45MW86	**41TK87**
45MW87, 45MW88	**41TK88**
45MW89, 45MW90	**41TK89**
45MW91, 45MW92	**41TK90**
45MW93, 45MW94	**41TK91**
O-Ring, Buna	
45MW66 to 45MW94	**41TK92**
O-Ring, Viton	
45MW66 to 45MW94	**41TK93**
Mechanical Seals, Buna	
45MW66 to 45MW94	**41TK94**
Mechanical Seals, Viton	
45MW66 to 45MW94	**41TK95**

No. of Stages	HP	Voltage	Amps	Phase	Inlet Size	Outlet Size	Housing Material*	GPM of Water @ Discharge Pressure in psi+ 10	20	40	60	80	100	120	140	Max. Pressure	Item No.
Dayton																	
7	⅓ hp	115/230V AC	7.5/3.4	1	¾ in NPT	¾ in NPT	CI	9.3	7.8	6.8	5.1	2.9	—	—	—	90 psi	**45MW66**
8	½ hp	115/230V AC	7.8/3.9	1	¾ in NPT	¾ in NPT	CI	9.6	8	7	5.7	4	2	—	—	120 psi	**45MW67**
	½ hp	115/230V AC	7.8/3.9	1	¾ in NPT	¾ in NPT	SS	9.6	8	7	5.7	4	2	—	—	120 psi	**45MW84**
9	¾ hp	115/230V AC	11.1/5.5	1	¾ in NPT	¾ in NPT	CI	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW68**
	¾ hp	115/230V AC	11.1/5.5	1	¾ in NPT	¾ in NPT	SS	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW85**
	¾ hp	208-230/460V AC	3.9-3.6/1.8	3	¾ in NPT	¾ in NPT	CI	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW69**
	¾ hp	208-230/460V AC	3.9-3.6/1.8	3	¾ in NPT	¾ in NPT	SS	13.7	12.8	11.0	10.6	9.4	7.4	4.7	0.9	141 psi	**45MW86**
	2 hp	208-230/460V AC	7.1-6.8/3.4	3	1 in NPT	1 in NPT	CI	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW79**
	2 hp	208-230/460V AC	7.1-6.8/3.4	3	1 in NPT	1 in NPT	SS	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW92**
	2 hp	230V AC	10.2	1	1 in NPT	1 in NPT	CI	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW78**
	2 hp	230V AC	10.2	1	1 in NPT	1 in NPT	SS	31.4	30.1	27.9	25.9	23.8	20.3	16.2	—	134 psi	**45MW91**
	3 hp	208-230/460V AC	10.1-9.2/4.6	3	1 in NPT	1 in NPT	CI	44.0	43.1	41.8	37.9	31.1	23.9	—	—	120 psi	**45MW81**
	3 hp	230V AC	14.5	1	1 in NPT	1 in NPT	CI	44.0	43.1	41.8	37.9	31.1	23.9	—	—	120 psi	**45MW80**
12	1 hp	115/230V AC	13/6.3	1	¾ in NPT	¾ in NPT	CI	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW72**
	1 hp	115/230V AC	13/6.3	1	¾ in NPT	¾ in NPT	SS	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW87**
	1 hp	208-230/460V AC	4.3-4/2.0	3	¾ in NPT	¾ in NPT	CI	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW73**
	1 hp	208-230/460V AC	4.3-4/2.0	3	¾ in NPT	¾ in NPT	SS	15.4	14.8	14.6	13.5	11.7	11.5	10	8.5	171 psi	**45MW88**
13	1 ½ hp	115/230V AC	18.4/8.4	1	¾ in NPT	¾ in NPT	CI	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW74**
	1 ½ hp	115/230V AC	18.4/8.4	1	¾ in NPT	¾ in NPT	SS	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW89**
	1 ½ hp	208-230/460V AC	5.7-5.4/2.7	3	¾ in NPT	¾ in NPT	CI	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW75**
	1 ½ hp	208-230/460V AC	5.7-5.4/2.7	3	¾ in NPT	¾ in NPT	SS	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	194 psi	**45MW90**
	3 hp	208-230/460V AC	10.1-9.2/4.6	1	1 in NPT	1 in NPT	CI	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW82**
	3 hp	208-230/460V AC	10.1-9.2/4.6	3	1 in NPT	1 in NPT	SS	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW94**
	3 hp	230V AC	14.5	1	1 in NPT	1 in NPT	CI	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW83**
	3 hp	230V AC	14.5	1	1 in NPT	1 in NPT	SS	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	172 psi	**45MW93**
Flint & Walling																	
8	⅓ hp	120/240V AC	8.6/4.3	1	¾ in NPT	¾ in NPT	CI	10.2	9.6	8.3	6.5	4.3	—	—	—	96 psi	**22W709**
12	½ hp	120/240V AC	13.0/6.5	1	¾ in NPT	¾ in NPT	CI	10	9.6	8.3	7.1	6	4	2.3	—	132 psi	**22W710**
	¾ hp	120/240V AC	14.0/7.0	1	¾ in NPT	¾ in NPT	CI	14	13.4	12.2	10.9	9.5	8.9	7	4.6	158 psi	**22W711**
14	1 hp	120/240V AC	18.0/9.0	1	¾ in NPT	¾ in NPT	CI	†	†	14.5	13.4	12.3	11.2	9.8	8	183 psi	**22W715**
	3 hp	208 to 240/480V AC	9.8/4.9	3	1 in NPT	1 in NPT	SS	†	†	33	31.5	29.8	27.9	25.6	22.8	187 psi	**22W737**
	3 hp	240V AC	13.5	1	1 in NPT	1 in NPT	CI	†	†	33	31.5	29.8	27.9	25.6	22.8	187 psi	**22W723**
16	¾ hp	120/240V AC	14.0/7.0	1	¾ in NPT	¾ in NPT	SS	9.9	9.5	8.7	8	7.3	6.5	5.8	4.8	175 psi	**22W713**
	1 ½ hp	120/240V AC	21.0/10.5	1	¾ in NPT	¾ in NPT	CI	†	†	15	14.1	13.1	12.1	11	8.2	212 psi	**22W717**
	1 ½ hp	208 to 240/480V AC	5.7/2.85	3	¾ in NPT	¾ in NPT	SS	†	†	15	14.1	13.1	12.1	11	8.2	212 psi	**22W733**

** CI = cast iron, SS = stainless steel. + To convert to feet of head, multiply psi by 2.31. † Operating pump in this pressure range is not recommended.*

4HFA8

Pressure-Booster Pumps

- Max. case pressure: 75 psi
- TEFC motor enclosure

For boosting water pressure in a home water system. 2-stage impeller design increases pump performance. Stainless steel body and thermoplastic impellers resist corrosion. Suction lift up to 25 ft.

HP	Voltage	Amps	Inlet	Outlet	GPM @ 15 psi	GPM @ 20 psi	GPM @ 25 psi	GPM @ 30 psi	GPM @ 35 psi	GPM @ 40 psi	Max. Pressure	Item No.
½	115V AC	4.9 A	1"	1"	13.4	10.8	7.7	2.9	—	—	32.8 psi	**4HFA6**
¾	115V AC	6.1 A	1"	1"	15.0	12.7	10.5	7.4	1.8	—	36.7 psi	**4HFA7**
1	115V AC	7.7 A	1"	1"	18.5	16.5	14.4	12	9.1	5.3	45.3 psi	**4HFA8**

High-Volume Pressure Booster Pumps

Dayton

- Max. fluid temp.: 200ºF
- Max. fluid viscosity: 31 SSU
- 65°C temp. rise motor
- ODP motor enclosure
- Cast-iron housing
- Inlet/outlet NPT: 1½" and 1¼"

Non-self-priming pumps can lift water up to 25 ft. with foot valve and pump suction line/piping filled with water. Continuous-duty motors can boost pressure for high-flow applications. 1-stage models include a discharge port on the pump housing that can be adjusted 90°. The 2- and 3-stage models are equipped for applications that require higher pressures. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.

45MW11

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+ 15	20	25	30	35	Max. Pressure	Item No.
1	⅓ hp	120/240V AC	7.5/3.4	1	38	28	20	—	—	27 psi	**45MW11**
	½ hp	120/240V AC	7.8/3.9	1	48	40	27	—	—	30 psi	**45MW12**
	¾ hp	120/240V AC	11.1/5.5	1	60	52	37	19	—	33 psi	**45MW13**
	¾ hp	208 to 240/480V AC	3.9 to 3.6/1.8	3	60	52	37	19	—	33 psi	**45MW14**
	1 hp	120/240V AC	13/6.3	1	66	59	52	44	35	42 psi	**45MW16**
	1 hp	208 to 240/480V AC	4.3 to 4/2.0	3	66	59	52	44	35	42 psi	**45MW17**
	1 ½ hp	208 to 240/480V AC	5.7 to 5.4/2.7	3	—	75	70	61	47	44 psi	**45MW21**
	1 ½ hp	240V AC	8.4	1	—	75	70	61	47	44 psi	**45MW20**
	2 hp	208 to 240/480V AC	7.1 to 6.8/3.4	3	—	—	78	65	55	42 psi	**45MW25**
	2 hp	240V AC	10.2	1	—	—	78	65	55	42 psi	**45MW24**
2	1 hp	120/240V AC	13/6.3	1	—	—	35	32	29	60 psi	**45MW18**
	1 hp	208 to 240/480V AC	4.3 to 4/2.0	3	—	—	35	32	29	60 psi	**45MW19**
	1 ½ hp	208 to 240/480V AC	5.7 to 5.4/2.7	3	—	—	37	35	32	65 psi	**45MW23**
	1 ½ hp	240V AC	8.4	1	—	—	37	35	32	65 psi	**45MW22**
3	2 hp	208 to 240/480V AC	7.1 to 6.8/3.4	3	—	—	37	34	33	88 psi	**45MW29**
	2 hp	240V AC	10.2	1	—	—	37	34	33	88 psi	**45MW28**
	3 hp	208 to 240/480V AC	10.1 to 9.2/4.6	3	—	—	41	39	38	92 psi	**45MW31**
	3 hp	240V AC	14.5	1	—	—	41	39	38	92 psi	**45MW30**

+ To convert to feet of head, multiply psi by 2.31.

Description	For Use With Grainger Item Number	Item No.
Replacement Parts		
Mechanical Seal, Buna N	45MW11 to 45MW31	**41TK74**
Gasket, NBR	45MW11 to 45MW31	**41TK75**

Vertical Multistage Booster Pumps

Dayton

- Max. fluid temp.: 248°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 362 psi
- 3450 rpm with NEMA 56C frame
- TEFC motor enclosure
- Inlet/Outlet Flanged: 1¼" and 1¼"

The inline design allows pump to also be installed horizontally in locations where suction and discharge connections are in the same plane and have the same pipe sizes. Closed stainless steel impeller with silicon carbide, stainless steel, and EPDM seals. Pumps feature high-pressure performance at low flow, making them suitable for use in pressure-boosting systems, boiler feed applications, ultra filtration and reverse osmosis systems. Compact size allows installation in tight spaces. Continuous-duty motor. Flange Kits are sold separately on Grainger.com and include a gasket, companion flange, 4 nuts, and 4 bolts. 21R871 is for stainless steel models, 21R870 is for cast-iron models. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.

5UWK0

No. of Stages	HP	Voltage	Amps	Phase	GPM of Water @ Discharge Pressure in PSI+ 10	20	40	60	80	100	140	Max. Pressure	STAINLESS STEEL Item No.	CAST-IRON Item No.
2	½ hp	120/208 to 240V AC	8.6/4.0-4.3	1	21	12	—	—	—	—	—	27 psi	**5UWK1**	—
	½ hp	208 to 240/480V AC	1.7-1.6/0.8	3	21	12	—	—	—	—	—	27 psi	—	**5UWH6**
	¾ hp	120/208 to 240V AC	10.7/5.2-5.3	1	40	20	—	—	—	—	—	27 psi	**5UWK3**	—
	¾ hp	208 to 240/480V AC	2.5-2.4/1.2	3	40	20	—	—	—	—	—	27 psi	—	**5UWH8**
3	¾ hp	120/208 to 240V AC	10.7/5.2-5.3	1	†	19	—	—	—	—	—	40 psi	**5UWK5**	**5UWH9**
5	1 hp	120/208 to 240V AC	12.2/6.3-6.1	1	†	†	17	6	—	—	—	66 psi	**5UWK7**	—
	1 hp	208 to 240/480V AC	3.3-3.2/1.6	3	†	†	17	6	—	—	—	66 psi	**5UWL3**	**5UWJ7**
	2 hp	115/208 to 230 AC	16.6/9.4-8.3	1	†	†	35	14	—	—	—	70 psi	—	**5UWJ5**
8	1 ½ hp	120/208 to 240V AC	13.5/7.6-6.7	1	†	†	22	19	14	5	—	108 psi	—	**5UWJ2**
	1 ½ hp	208 to 240/480V AC	4.2/2.1	3	†	†	22	19	14	5	—	108 psi	**5UWL4**	**5UWJ8**
9	3 hp	240V AC	12.5	1	25	†	42	35	Stainless Steel	25	—	127 psi	**5UWL2**	—
11	2 hp	120/208 to 240V AC	16.6/9.4-8.3	1	†	†	†	22	19	16	4	148 psi	**5UWK9**	**5UWJ3**
	2 hp	208 to 240/480V AC	5.6/2.8	3	†	†	†	22	19	16	4	148 psi	**5UWL5**	**5UWJ9**
17	3 hp	208 to 240/480V AC	7.2/3.6	3	†	†	†	†	†	22	18	230 psi	—	**5UWK0**
	3 hp	208 to 240/480V AC	8.4/4.2	3	†	†	†	†	†	22	18	230 psi	**5UWL6**	—

+ To convert to feet of head, multiply psi by 2.31. † Items with this symbol are not recommended for operation in this range and may result in motor damage.

Horizontal Multistage Booster Pumps

Dayton

- Max. fluid temp.: 194°F
- Max. fluid viscosity: 100 SSU
- Max. case pressure: 150 psi
- 3450 rpm with NEMA 56J frame
- ODP motor enclosure, except 5UXF9 and 5UXG4 are TEFC
- Cast-iron housing

Feature continuous-duty motors for high-flow applications. Closed stainless steel impeller with carbon/ceramic, Buna N, and stainless steel seals. Pumps are not self-priming. Wet moving parts made of 304 stainless steel for longer life. Can be used with thin, clean, nonaggressive and nonexplosive liquids without solid particles or fibers. Suitable for increasing water pressure from city mains or private water systems, rinsing or spraying cooling equipment, and lawn sprinkling. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. cULus Components Recognized for Motor.

5UXF3

No. of Stages	HP	Voltage	Amps	Phase	Inlet Size	Outlet Size	GPM of Water @ Discharge Pressure in PSI+ 10	20	40	60	80	100	Max. Pressure	Item No.
3	⅓ hp	120/240V AC	7.5/3.8	1	¾ in NPT	¾ in NPT	20	18	12	—	—	—	58 psi	**5UXF3**
	1 hp	120/240V AC	14.4/7.2	1	1¼ in NPT	1 in NPT	50	43	27	—	—	—	59 psi	**5UXF6**
	1 hp	208 to 240/480V AC	3.7-3.2/1.6	3	1¼ in NPT	1 in NPT	50	43	27	—	—	—	59 psi	**5UXG1**
4	½ hp	120/240V AC	8.4/4.8	1	¾ in NPT	¾ in NPT	20	19	16	10	—	—	77 psi	**5UXF4**
	1 ½ hp	120/240V AC	17/8.5	1	1¼ in NPT	1 in NPT	52	48	38	23	1.9	—	81 psi	**5UXF7**
	1 ½ hp	208 to 240/480V AC	4.4-3.9/2.0	3	1¼ in NPT	1 in NPT	52	48	38	23	1.9	—	81 psi	**5UXG2**
5	¾ hp	120/240V AC	11.3/5.6	1	¾ in NPT	¾ in NPT	20	19.5	17.5	13.5	7	—	93 psi	**5UXF5**
	¾ hp	208 to 240/480V AC	2.7-2.5/1.2	3	¾ in NPT	¾ in NPT	20	19.5	17.5	13.5	7	—	93 psi	**5UXG0**
	2 hp	120/240V AC	20/10	1	1¼ in NPT	1 in NPT	53	49	41	31	17	—	100 psi	**5UXF8**
	2 hp	208 to 240/480V AC	5.9-5.2/2.5	3	1¼ in NPT	1 in NPT	53	49	41	31	17	—	80 psi	**5UXG3**
6	3 hp	230/460	7.2/3.6	3	1¼ in NPT	1 in NPT	54	51	45	38	29	17	121 psi	**5UXG4**
	3 hp	240V AC	12.5	1	1¼ in NPT	1 in NPT	54	51	45	38	29	17	121 psi	**5UXF9**

+ To convert to feet of head, multiply psi by 2.31.

22W755

High-Volume, Straight Centrifugal Pumps

FLINT & WALLING

- Max. liquid temp.: 200°F
- ODP motor enclosure
- 1.25 motor service factor, except 22W755 is 1.3

2-stage, low-lead brass, closed impellers provide high pressure for water boosting applications. Cast-iron housing. Stainless steel, Buna N, and carbon/silicon carbide mechanical seals. Wetted materials are brass, Buna N, carbon, cast iron, silicon carbide, and stainless steel. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

HP	Phase	Voltage	Amps	Inlet Size	Outlet Size	Frame	GPM @ 25 psi	GPM @ 50 psi	Item No.
1 ½ hp	3	208 to 240/480V AC	5.7/2.85	1½ in NPT	1¼ in NPT	NEMA 56J	46	41	**22W755**
2 hp	1	120/240V AC	25.0/12.5	1½ in NPT	1¼ in NPT	NEMA 56J	55	48	**22W757**
	3	208 to 240/480V AC	7.4/3.7	1½ in NPT	1¼ in NPT	NEMA 56J	53	35	**22W759**

48GP22

Constant Pressure/Variable Speed Booster Pumps

GOULDS WATER TECHNOLOGY

Pumps include everything needed to maintain constant pressure in domestic water applications. Great in multibath homes, small apartments, condos, penthouses, residential irrigation systems, and restaurants. For indoor use.

3500-rpm motor in TEFC enclosure is rated for continuous duty; 50/60 Hz. Max. liquid temp.: 250°F. Stainless steel housing; seals are carbon/ceramic/rubber.

Pumps include tank and controller. Check valves, unions, ball valves, and breakers not included. Note: Pumps need to operate at minimum gpm flow to maintain operation.

Stages	HP	Voltage	Phase	Amps	Inlet	Outlet	Tank (gal.)	Max. PSI Boost @ 0-10 GPM	Max. PSI Boost @ 10-20 GPM	Max. PSI Boost @ 20-30 GPM	Max. Pressure	Mfr. Model	Item No.
3	1	115	1	3 A	1¼ in	1 in	4.5	45	40	35	100 psi	1151AB25HM03	**48GP52**
	1	230	1	3 A	1¼ in	1 in	4.5	45	40	35	100 psi	1AB25HM03	**48GP25**
4	1	230	1	3 A	1 in	1 in	2	35	Not Rated	Not Rated	100 psi	1AB21HM04	**48GP22**
6	1	115	1	3 A	1 in	1 in	2	55	Not Rated	Not Rated	100 psi	1151AB21HM06	**48GP51**
	1	230	1	3 A	1 in	1 in	2	55	Not Rated	Not Rated	100 psi	1AB21HM06	**48GP23**
	2	230	1	4.2 A	1 in	1 in	2	80	60	Not Rated	100 psi	2AB23HM06	**48GP24**
	2	230	1	4.2 A	1¼ in	1 in	4.5	90	80	70	100 psi	2AB25HM06	**48GP28**

53EA96

53EC03

Turbine Pumps

Dayton

- Liquid temp. range: -20° to 230°F
- 3450 rpm motors
- Bronze impellers
- Max. specific gravity: 1.0
- Mount on NEMA 56J frames, except 56C on 300 psi max. pressure models
- 300 psi max. pressure models handle vapors up to 20% by volume, to minimize vapor lock

Feature Type 21 mechanical seals and an easily accessible drain plug. Ball bearings on shaft for longer life. Suitable for industrial and commercial applications, boiler feed, condensation return, pressure service, water treatment, reverse osmosis filtration, spray equipment, and liquid transfer. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Notes: A suitable relief valve, such as 2X318 (on page 2895), should be installed to assure maximum psi is not exceeded; otherwise, electric motor/pump may be damaged.

Use only with nonflammable liquids compatible with pump materials in nonexplosive/nonflammable atmospheres.

Bronze Housing—Wetted materials are bronze, carbon, ceramic, Buna N, and stainless steel.

Cast-Iron Housing—Impellers have balancing holes to help eliminate side wear and reduce the need for external adjustments. Include cast-iron motor bracket with replacement bronze sleeve. Wetted materials are cast iron, bronze, carbon, ceramic, and Buna N.

Note: Not for use with viscous or abrasive liquids.

					1-PHASE					3-PHASE				
HP	Motor Encl.	Inlet	Outlet	Max. Pressure	Voltage	GPM @ 10 psi	GPM @ 50 psi	GPM @ 100 psi	Item No.	Voltage	GPM @ 10 psi	GPM @ 50 psi	GPM @ 100 psi	Item No.
Bronze Housing														
⅓ hp	ODP	¾ in NPT	¾ in NPT	120 psi	115/230	2.5	1.5	0.7	**53EA94**	—	—	—	—	**—**
½ hp	ODP	¾ in	¾ in	120 psi	—	—	—	—	**—**	208-230/460	6	3.7	1.1	**4JPD6**
½ hp	ODP	¾ in NPT	¾ in NPT	120 psi	115/230	6.0	3.7	1.1	**53EA95**	—	—	—	—	**—**
¾ hp	ODP	1¼ in FNPT	1 in FNPT	120 psi	115/230	7.6	6.4	4.8	**53EA96**	208-230/460	7.6	6.4	4.8	**53EA97**
1 hp	ODP	1¼ in FNPT	1 in	120 psi	115/230	11.2	8.6	3	**4JPE2** *	—	—	—	—	**—**
1 ½ hp	TEFC	1¼ in FNPT	1 in FNPT	140 psi	115/208/230	9.7	7.8	5.6	**53EA98**	230/460	9.7	7.8	5.6	**53EA99**
2 hp	TEFC	1¼ in FNPT	1 in FNPT	100 psi	115/208/230	22.5	18.3	—	**53EC01**	230/460	22.5	18.3	—	**53EC02**
Cast-Iron Housing														
½ hp	ODP	¾ in NPT	¾ in NPT	140 psi	115/230	3.8	2.6	1.3	**53EC03**	—	—	—	—	**—**
¾ hp	ODP	1¼ in FNPT	1 in FNPT	120 psi	115/230	7.6	6.4	4.8	**53EC04**	—	—	—	—	**—**
1 hp	ODP	1¼ in FNPT	1 in FNPT	120 psi	115/230	11.2	8.6	3.0	**53EC05**	—	—	—	—	**—**
3 hp	TEFC	1¼ in FNPT	1 in FNPT	120 psi	—	—	—	—	**—**	230/460	18.4	16.0	12.6	**53EC06**
Cast Iron with Nickel Plating Housing														
⅓ hp	ODP	¾ in	¾ in	140 psi	115/230	2.5	1.5	0.7	**4JPF1** *‡	—	—	—	—	**—**
½ hp	ODP	1¼ in	1 in	120 psi	—	—	—	—	**—**	208-230/460	3.8	2.6	1.3	**4JPF4** ‡
¾ hp	ODP	1¼ in	1 in	120 psi	—	—	—	—	**—**	208-230/460	7.6	6.4	4.8	**4JPF6** ‡
1 hp	ODP	1¼ in	1 in	120 psi	—	—	—	—	**—**	208-230/460	11.2	9.7	7.6	**4JPF7** ‡
1 ½ hp	TEFC	1¼ in	1 in	140 psi	115/208-230	9.7	7.8	5.6	**4JPF8** ‡	208-230/460	9.7	7.8	5.6	**4JPF9** ‡
2 hp	TEFC	1¼ in	1 in	100 psi	115/208-230	22.5	18.3	—	**4JPG1** ‡	208-230/460	22.5	18.3	—	**4JPG2** ‡

Item	For Use With No.	Includes	Item No.
Replacement Shaft Seal Kits and Seals			
O Ring Kit, T31 Mech Seal	4UP50, 4UP51	Pump O-Rings, Seal, Seat	**26KJ17**
O Ring Kit, T51 Mech Seal	4P913-4P916, 4UP59-4UP66	Pump O-Rings, Seal, Seat	**26KJ18**

Item	For Use With No.	Includes	Item No.
Shaft Seal Kit	4UP52-4UP58	Pump O-Rings, Seal, Seat	**2WV89**
Shaft Seal	4UP50, 4UP51	Seal and Seat	**2WV87**
	4P913-4P916, 4UP52-4UP66	Seal and Seat	**2WV86**

** 150/230V only. ‡ Cast-iron housing with nickel plating.*

Jet Pump Systems

24PR57

4HEZ9

- 115/230V AC
- Inlet: 1 ¼" NPT

Pump systems are centrifugal end suction pumps that use a jet pump ejector to generate a vacuum which helps draw water up the well. They come with a booster tank to ensure the pump will maintain a more consistent water pressure and supply water to homes or facilities without having to connect to a municipal water source. Jet pumps are installed above ground for repair and maintenance, and they eliminate damaging pump twisting common with submersible well pumps that causes them to strike against and damage the sides of the well casing.

Material of Construc.	HP	Amps	Flow Rate @ 10 Ft Lift @ 40 PSI	Tank Cap.	Max. Suction Lift	Shut Off Pressure	Includes	Brand	Item No.
Convertible Jet Pump Systems									
1 in-NPT Discharge									
Cast Iron	½	10.8/5.5	11.4 gpm	17.0 gal	100 ft	66 psi	Pump and Tank, Requires Ejector Sold Separately (see accessories depending on application)	Dayton	**5UXL1**
	½	10.8/5.5	11.4 gpm	30.0 gal	100 ft	66 psi	Pump and Tank With Air Volume Control, Requires Ejector Sold Separately (see accessories depending on application)	Dayton	**5UXL0** *
	¾	18/9	14.9 gpm	17.0 gal	110 ft	65 psi	Pump and Tank, Requires Ejector Sold Separately (see accessories depending on application)	Dayton	**5UXL2**
	1	20/10.5	17.8 gpm	17.0 gal	80 ft	75 psi		Dayton	**5UXL3**
Thermoplastic	1	17.0/8.5	18.4 gpm	17.0 gal	110 ft	66 psi		Dayton	**4HFA5**
Shallow Well Jet Pump Systems									
¾ in-NPT Discharge									
—	½	8.6/4.3	5.2 gpm	8.5 gal	25 ft	60 psi	Ejector, Motor, Pressure Switch, Pressure Tank and Connection Fittings from Pump to Tank, Pump	Flint & Walling	**24PR57**
	¾	13/6.5	9.6 gpm	14 gal	25 ft	65 psi		Flint & Walling	**24PR58**
1 in-NPT Discharge									
Cast Iron	⅓	10/4.8	4.5 gpm	2.0 gal	25 ft	63 psi	1 x ¾ in Adaptor, Ejector 5UXL4, Nozzle, Pump, Tank, Venturi	Dayton	**5UXK7**
	½	10.8/5.5	11.4 gpm	6.0 gal	25 ft	64 psi		Dayton	**5UXK8**
	¾	18/9	14.9 gpm	6.0 gal	25 ft	65 psi		Dayton	**5UXK9**
Stainless Steel	½	9.6/4.8	3.5 gpm	6.0 gal	25 ft	60 psi	Pump and Tank	Dayton	**4HFA2**
	¾	15.6/7.8	11.9 gpm	6.0 gal	25 ft	64 psi		Dayton	**4HFA3**
Thermoplastic	⅓	10/4.8	3.3 gpm	2.0 gal	25 ft	63 psi		Dayton	**4HEZ8**
	½	10/4.8	4.4 gpm	6.0 gal	25 ft	63 psi		Dayton	**4HEZ9**
	¾	10.8/5.5	5.6 gpm	6.0 gal	25 ft	63 psi		Dayton	**4HFA1**

*** Standard tank.**

Jet Pump Ejectors

5UXL4

Ejectors consist of a nozzle and a venturi attached to a compatible jet pump to create a vacuum that draws water up the well. **Shallow-well** jet pump ejectors connect to compatible shallow-well jet pumps for wells less than 25-ft. deep. The **deep-well** models connect to compatible deep-well or convertible well jet pumps for wells more than 25-ft. deep. All ejectors are commonly used in residential well applications.

No. of Pipes	For Use With	Includes	Item No.
Shallow-Well			
1	5UXK3 to 5UXK6, 5UXL0 to 5UXL3	Bolts, Gasket, Nozzles, Venturis	**5UXL4**
1	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5	Check Valve, Nozzle, Venturi	**4HFC1**
Deep-Well			
1	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5, 5UXK3 to 5UXK6, 5UXL0 to 5ULX3	Check Valve, Nozzle, Packer Cup Type Seals, Venturi	**4HFC2**
2	4HEZ4 to 4HEZ7, 4HFA4, 4HFA5	Foot Valve, Foot Valve Pipe Nipple, Nozzle, Plastic Suction Pipe Adapter, Venturi	**4HFA9**
2	5UXK3 to 5UXK6, 5UXL0 to 5UXL3	Bolts, Gasket, Nozzles, Venturis	**5UXL5**

Shallow-Well Jet Pumps

4HEY4

1D881

- 115/230V AC
- Inlet: 1 ¼" NPT

Supply water from wells up to 25-ft. deep and eliminate the need to connect to a municipal water source. They are mounted above ground for maintenance and repair compared to submersible well pumps that are installed in the well and need to be removed from the well for inspection. Pumps are not subject to pump twisting found in submersible pumps that causes them to strike against and damage the sides of the well casing. Ejector included.

Pump Material	HP	Amps	Flow Rate @ 10 Ft Lift @ 40 PSI	Shut Off Pressure	Includes	Brand	Item No.
¾ in NPT Discharge							
Cast Iron	½ hp	8.6/4.3	8.7 gpm	72 psi	Diffuser, Drain Plug	Dayton	**1D881**
	½ hp	13.0/6.5	12.2 gpm	69 psi	Pressure Switch	Dayton	**1D876**
	¾ hp	13/6.5	12.0 gpm	65 psi		Flint & Walling	**24PR52**
	¾ hp	13.0/6.5	12.2 gpm	74 psi	Diffuser, Drain Plug	Dayton	**1D880**
1 in NPT Discharge							
Cast Iron	⅓ hp	10/4.8	4.5 gpm	66 psi	1 x ¾ In. Adaptor, Nozzle, Venturi	Dayton	**5UXJ8**
	½ hp	10/5	7.3 gpm	67 psi		Dayton	**5UXJ9**
	¾ hp	10.8/5.5	11.5 gpm	64 psi		Dayton	**5UXK0**
	¾ hp	14.0/7.0	13.9 gpm	65 psi	Pressure Switch	Dayton	**1D874**
	1 hp	18.0/9.0	18.4 gpm	70 psi		Dayton	**1D872**
	1 hp	20/10.5	17.8 gpm	65 psi	1 x ¾ In. Adaptor, Nozzle, Venturi	Dayton	**5UXK1**
	1 ½ hp	21.0/10.5	20.4 gpm	77 psi	Pressure Switch	Dayton	**1D878**
	1 ½ hp	21.5/11	23.6 gpm	64 psi	1 x ¾ In. Adaptor, Nozzle, Venturi	Dayton	**5UXK2**
Stainless Steel	⅓ hp	9.0/4.5	2.7 gpm	59 psi	Pump and Ejector	Dayton	**4HEY8**
	½ hp	9.6/4.8	3.5 gpm	60 psi		Dayton	**4HEY9**
	¾ hp	15.6/7.8	11.9 gpm	64 psi		Dayton	**4HEZ1**
	1 hp	18.0/9.0	17.1 gpm	84 psi		Dayton	**4HEZ2**
	1 ½ hp	20.3/10.4	17.6 gpm	72 psi		Dayton	**4HEZ3**
Thermoplastic	⅓ hp	10/4.8	3.3 gpm	63 psi		Dayton	**4HEY3**
	½ hp	10/4.8	4.4 gpm	63 psi		Dayton	**4HEY4**
	¾ hp	10.8/5.5	5.6 gpm	63 psi		Dayton	**4HEY5**
	1 hp	15.6/7.8	12.3 gpm	63 psi		Dayton	**4HEY6**
	1 ½ hp	17.2/8.8	21.1 gpm	63 psi		Dayton	**4HEY7**

Convertible Well Jet Pumps

1D873

4HEZ7

- 115/230V AC
- Inlet: 1 ¼" NPT

Eliminate the need to connect to a municipal water source and are for use in shallow wells (up to 25-ft. deep) or deep wells (greater than 25-ft. deep) depending on the ejectors used. Pumps are mounted above ground for repair and maintenance compared to submersible well pumps that are installed in the well and need to be removed from the well for inspection. Jet pumps are not subject to pump twisting found in submersible pumps that causes them to strike against and damage the sides of the well casing. Required ejectors not included, see Jet Pump Ejectors this page.

Cast Iron—Adaptable to single-pipe shallow well or double-pipe deep well installations.

Thermoplastic—All wettable parts resist corrosives and abrasives found in most wells.

HP	Amps	Flow Rate @ 50 Ft. Lift @ 40 PSI	Max. Suction Lift	Shut Off Pressure	Includes	Item No.
Cast Iron Body, ¾ in NPT Discharge						
½ hp	13.0/6.5	—	40 ft	—	Motor, Pressure Gauge, Pressure Regulator, Pressure Switch	**1D877**
Cast Iron Body, 1 in NPT Discharge						
½ hp	10.8/5.5	4.6 gpm	100 ft	66 psi	Requires Ejector Sold Separately (see accessories depending on application)	**5UXK3**
¾ hp	14.0/7.0	4.6 gpm	50 ft	—		**1D875**
	18.0/9.0	8.6 gpm	110 ft	65 psi		**5UXK4**
1 hp	18.0/9.0	5.4 gpm	50 ft	—		**1D873**
	20.0/10.5	11.1 gpm	140 ft	75 psi	Requires Ejector Sold Separately (see accessories depending on application)	**5UXK5**
1 ½ hp	21.0/10.5	7.5 gpm	60 ft	—	Motor, Pressure Gauge, Pressure Regulator, Pressure Switch	**1D879**
	21.5/11.0	14.0 gpm	140 ft	82 psi	Requires Ejector Sold Separately (see accessories depending on application)	**5UXK6**
Thermoplastic Body, 1 in NPT Discharge						
½ hp	10.0/4.8	2.5 gpm	60 ft	69 psi	Pressure Gauge	**4HEZ4**
¾ hp	10.8/5.5	3.6 gpm	80 ft	61 psi		**4HEZ5**
1 hp	17.0/8.5	9.2 gpm	110 ft	66 psi		**4HEZ6**
1 ½ hp	19.0/9.5	11.9 gpm	110 ft	67 psi		**4HEZ7**

Stainless Steel
1LZX7

Thermoplastic
3TNY3

Submersible Deep-Well Pumps

Dayton®

- Max. operating temp: 86°F

Provide a constant supply of water even during dry seasons and don't require priming since they are submerged in water. They are buried within a well deep in the ground and push water up through a pipe that is connected to one end of the pump. Models are connected to a tank to keep water pressure more consistent.

2-Wire—Require no control box since the motor controls wire directly to the water system pressure switch or power supply. Not for use where abrasives or heavy-water scale are present.

3-Wire—Require an above-ground control box (sold on this page) that connects between the pressure switch and pump motor. Motors have a high starting torque that can help loosen mineral deposits which may adhere to the pump's moving parts.

					Discharge Head Material			
					Stainless Steel		Thermoplastic	
HP	Amps	No. of Stages	Flow Rate @ 100 Ft. @ 40 psi	Nominal Flow Rate	Max. Head	Item No.	Max. Head	Item No.
2-Wire, 1 Phase, 110V AC								
½ hp	12.0	6	8.0 gpm	10 gpm	231 ft	**1LZR4**	—	—
	12.0	9	8.0 gpm	7 gpm	550 ft	**1LZX8**	430 ft	**3TNY3**
	12.0	13	6.0 gpm	5 gpm	364 ft	**1LZP8**	364 ft	**1LZT8**
2-Wire, 1 Phase, 110V AC (Control Box Required)								
½ hp	12.0	6	8.0 gpm	10 gpm	—	—	231 ft	**1LZU4**
2-Wire, 1 Phase, 220V AC								
½ hp	6.0	6	8.0 gpm	10 gpm	231 ft	**1LZR5**	231 ft	**1LZU5**
	6.0	9	8.0 gpm	7 gpm	550 ft	**1LZX7**	430 ft	**3TNY2**
	6.0	13	6.0 gpm	5 gpm	364 ft	**1LZP9**	364 ft	**1LZT9**
¾ hp	8.0	8	11.0 gpm	10 gpm	291 ft	**1LZR7**	291 ft	**1LZU7**
	8.0	12	9.0 gpm	7 gpm	310 ft	**1LZY2**	250 ft	**3TNY4**
	8.0	18	7.0 gpm	5 gpm	495 ft	**1LZR2**	528 ft	**1LZU2**
1 hp	9.8	10	18.0 gpm	20 gpm	221 ft	**1LZT4**	390 ft	**1LZV4**
	9.8	11	13.0 gpm	10 gpm	284 ft	**1LZR9**	284 ft	**1LZU9**
1 ½ hp	9.8	15	14.0 gpm	10 gpm	399 ft	**1LZT2**	399 ft	**1LZV2**
	13.1	14	21.0 gpm	20 gpm	288 ft	**1LZT6**	390 ft	**1LZV6**
3-Wire, 1 Phase, 110V AC (Control Box Required)								
½ hp	12.0	9	8.0 gpm	7 gpm	310 ft	**1LZY1**	250 ft	**3TNY5**
3-Wire, 1 Phase, 220V AC (Control Box Required)								
½ hp	6.0	6	8.0 gpm	10 gpm	231 ft	**1LZR3**	231 ft	**1LZU3**
	6.0	9	8.0 gpm	7 gpm	310 ft	**1LZX9**	375 ft	**3TNY6**
	6.0	13	6.0 gpm	5 gpm	364 ft	**1LZP7**	364 ft	**1LZT7**
¾ hp	8.0	8	11.0 gpm	10 gpm	291 ft	**1LZR6**	291 ft	**1LZU6**
	8.0	12	9.0 gpm	7 gpm	310 ft	**1LZY3**	375 ft	**3TNY7**
	8.0	18	7.0 gpm	5 gpm	528 ft	**1LZR1**	528 ft	**1LZU1**
1 hp	9.8	10	18.0 gpm	20 gpm	221 ft	**1LZT3**	221 ft	**1LZV3**
	9.8	11	13.0 gpm	10 gpm	284 ft	**1LZR8**	284 ft	**1LZU8**
1 ½ hp	11.5	14	21.0 gpm	20 gpm	288 ft	**1LZT5**	390 ft	**1LZV5**
	11.5	15	14.0 gpm	10 gpm	399 ft	**1LZT1**	399 ft	**1LZV1**

1LZV7

Franklin Electric

Submersible Motor and Pump Control Boxes

These 1-phase Type 3R enclosures have prepunched holes for pole or wall mounting, indoors or outdoors. CSIR Control Boxes have a start capacitor, but no run capacitor. CSCR Control Boxes have both a start capacitor and a run capacitor. Easy wiring, box-type terminal lugs that accept up to #10 AWG wire on ⅓- to 1-HP boxes and up to #2 AWG wire on 1½- to 10-HP boxes. All boxes are recommended for water systems that utilize a pressure switch and safety relief valve.

CSIR (Capacitor-Start, Induction-Run)—Boxes are quick-disconnect relay-type.

CSCR (Capacitor-Start, Capacitor-Run)—Models provide greater electrical efficiency and longer pump life. Deluxe CSCR boxes contain a magnetic contactor.

Motor/ Pump HP	Voltage	W (in.)	D (in.)	H (in.)	Control Box Type	Mfr. Model	Item No.	
⅓ hp	115	4 13/16	2 13/16	8 7/16	CSIR	558801	**1LZW9**	
	230	4 13/16	2 13/16	8 7/16	CSIR	558802	**1LZX1**	
½ hp	115	4 13/16	2 13/16	8 7/16	CSIR	558811	**1LZX2**	
	230	4 13/16	2 13/16	8 7/16	CSCR	558813	**1LZX3**	
	230	4 13/16	2 13/16	8 7/16	CSIR	558812	**1LZV8**	
¾ hp	230	4 13/16	2 13/16	8 7/16	CSCR	558822	**1LZX4**	
	230	4 13/16	2 13/16	8 7/16	CSIR	558821	**1LZV9**	
1 hp	230	4 13/16	2 13/16	8 7/16	CSCR	558832	**1LZX5**	
	230	4 13/16	2 13/16	8 7/16	CSIR	558831	**1LZV7**	
1 ½ hp	230	8	5 13/16	9 5/16	CSCR	558841	**1LZX6**	*
2 hp	230	8	5 13/16	9 5/16	CSCR	558851	**1LZW6**	
	230	8	5 13/16	9 5/16	Deluxe CSCR	558852	**1LZW4**	
3 hp	230	8	5 13/16	9 5/16	CSCR	558861	**1LZW7**	
	230	8	5 13/16	9 5/16	Deluxe CSCR	558862	**1LZW3**	
5 hp	230	8	5 13/16	9 5/16	CSCR	558871	**1LZW5**	
	230	8	5 13/16	16	Deluxe CSCR	558872	**1LZW8**	
7 ½ hp	230	8	5 13/16	16	Deluxe CSCR	558881	**1LZW1**	
10 hp	230	8	5 13/16	16	Deluxe CSCR	558891	**1LZW2**	

** Thermal overload in motor only.*

1LZP1

Dayton®

Submersible Deep-Well Pump Heads

- Max. operating temp.: 130°F

Stainless steel pump heads consist of a pump body and impeller (without motor) that allows replacement of a defective pump head without having to replace the existing pump motor. They must be connected to a compatible motor for proper operation in a deep well. The long, cylinder-shaped pumps provide a constant supply of water even during dry seasons and don't require priming since they are submerged in water. Pumps are buried within a well deep in the ground and push water up through a pipe to the surface and are connected to a tank to keep water pressure more consistent. They are more effective for deep wells and go down several hundred feet compared to jet pumps that have a depth of up to 120 ft. Pump heads do not include a submersible motor. Order motor separately, by horsepower, on this page.

Req. Motor HP	No. of Stages	Flow Rate @ 100 Ft. @ 40 psi	Flow Rate @ 100 Ft. @ 50 psi	Max. Head	Item No.
2 hp	9	37 gpm	35 gpm	200 ft	**1LZP1**
2 hp	12	29.0 gpm	28.0 gpm	350 ft	**1LZN9**
3 hp	8	43.0 gpm	32.0 gpm	265 ft	**1LZP3**
3 hp	11	45.0 gpm	41.0 gpm	350 ft	**1LZP2**
5 hp	12	70.0 gpm	70.0 gpm	285 ft	**1LZP6**
5 hp	13	65.0 gpm	60.0 gpm	425 ft	**1LZP5**
5 hp	18	54.0 gpm	52.0 gpm	575 ft	**1LZP4**

Submersible Deep-Well Pump Motors

- 4" body dia.
- Max. ambient temp.: 86°F

Deep-well pump motors can help draw water up from groundwater sources as deep as 400 ft. below the surface. They have a stainless steel shell with encapsulated, hermetically sealed stator and a splined stainless steel shaft. Lubricant-replenishing, filtered check valve and pressure-equalizing diaphragm. Replaceable lead wire assemblies include ground wire. Motors have hydrodynamic thrust bearings and CCWSE rotation. Continuous duty in 86°F water at ¼ ft. per sec. ½-HP to 2-HP models include 48" lead length; 3-HP to 7½-HP models include 100" lead length.

1-Phase—For water systems that utilize a pressure switch. Built-in lightning protection. Capacitor-start motors require a control box, sold separately on page 2654. Automatic thermal protection on motors up to 1 HP; manual (in control box) 2 HP and higher.

3-Phase—Require motor starter and overload relay, sold separately on page 170.

422X50

HP	Voltage	No. of Wires	RPM Range	Motor Service Factor	Motor Design	Full Load Amps	Max. SF Amps	Thrust Rating	Control Box Req.	Brand	Mfr. Model	Item No.
Single-Phase												
½	115V AC	2	3,001-3,600	1.6	Split-Phase	10.0	12.0	700 lb	—	Flint & Walling	137412	**422X50**
½	115V AC	3	3,001-3,600	1.6	Split-Phase	10.0	12.0	700 lb	—	Flint & Walling	137426	**422X55**
½	230V AC	2	3,001-3,600	1.6	Split-Phase	5.0	6.0	700 lb	—	Flint & Walling	137414	**422X51**
½	230V AC	3	3,001-3,600	1.6	Split-Phase	5.0	6.0	700 lb	—	Flint & Walling	137428	**422X56**
1	230V AC	2	3,001-3,600	1.4	Split-Phase	8.2	9.8	650 lb	No	Franklin Electric	558762	**1CXB6**
2	230V AC	3	3,001-3,600	1.25	Capacitor-Start	10.0	13.2	650 lb	1LZW4	Franklin Electric	558769	**1CXB9**
3	230V AC	3	3,001-3,600	1.15	Capacitor-Start	14.0	17.0	900 lb	1LZW3	Franklin Electric	558773	**1CXC1**
5	230V AC	3	3,001-3,600	1.15	Capacitor-Start	23.0	27.5	1,500 lb	1LZW8	Franklin Electric	558778	**1CXC2**

1CXC3

HP	Voltage	No. of Wires	RPM Range	Motor Service Factor	Full Load Amps	Max. SF Amps	Thrust Rating	Starter Req.	Overload Relay Req.	Overload Relay Amp Setting	Overload Relay Max. Amp Setting	Mfr. Model	Item No.
Three-Phase													
1 ½	200V AC	3	3,001-3,600	1.3	5.8	6.8	650 lb	3DY20	Yes	6.3	6.8 A	558763	**1CXC3**
1 ½	230V AC	3	3,001-3,600	1.3	5.0	5.9	650 lb	3DY20	Yes	5.5	5.9 A	558766	**1CXC4**
1 ½	460V AC	3	3,001-3,600	1.3	2.5	3.0	650 lb	3DY20	Yes	2.8	3 A	558767	**1CXC5**
2	200V AC	3	3,001-3,600	1.25	7.7	9.3	650 lb	3DY28	Yes	8.6	9.3 A	558768	**1CXC6**
3	230V AC	3	3,001-3,600	1.15	9.5	10.9	900 lb	3DY28	Yes	10.1	10.9 A	558774	**1CXD1**
3	460V AC	3	3,001-3,600	1.15	4.8	5.5	900 lb	3DY20	Yes	5.1	5.5 A	558775	**1CXD2**
5	460/380V AC	3	3,001-3,600	1.15	8.0	8.9	1,500 lb	3DY20	Yes	8.3	8.9 A	558782	**1CXD5**
5	230V AC	3	3,001-3,600	1.15	15.9	17.8	1,500 lb	3DY36	Yes	16.6	17.8 A	558780	**1CXD4**
7 ½	460/380V AC	3	3,001-3,600	1.15	11.5	13.2	1,500 lb	3DY36	Yes	12.3	13.2 A	558787	**1CXD7**

Submersible Deep-Well Pumps and Control Panel Kits

- 3-wire
- Max. operating temp.: 86°F, except 7YT16 to 7YT30 are 130°F

Control panel kits regulate the start/stop operation of submersible deep-well pumps that are buried within a well deep in the ground and push water up through a pipe that is joined to one end of the pump. The long, cylinder-shaped pumps can provide a constant supply of water even during dry seasons. They don't require priming since they are submerged in water and are connected to a tank to keep water pressure more consistent. Pumps are more effective for deep wells and can go down several hundred feet compared to jet pumps that have a depth of up to 120 ft.

3-Phase—Require motor starter and overload relay, sold separately on page 170.

HP	Amps	No. of Stages	Flow Rate @ 100 Ft. @ 50 psi	Nominal Flow Rate	Max. Head (ft.)	Item No.
110V AC, Single-Phase						
½ hp	12.0 A	7	7.0 gpm	8 gpm	290	**2EHR4**
220V AC, 3 Phase (Control Box Required)						
2 hp	6.7 A	10	25.0 gpm	35 gpm	470	**7YT16**
3 hp	9.5 A	11	41.0 gpm	45 gpm	630	**7YT19**
5 hp	15.9 A	12	60.0 gpm	85 gpm	425	**7YT21**
	15.9 A	13	60.0 gpm	60 gpm	375	**7YT28**
220V AC, Single-Phase						
½ hp	6.0 A	6	6.0 gpm	10 gpm	245	**2EHP9**
	6.0 A	7	7.0 gpm	8 gpm	290	**2EHL7**
	6.0 A	8	5.0 gpm	6 gpm	364	**2EHP7**
¾ hp	8.0 A	8	10.0 gpm	12 gpm	339	**2EHR1**
	8.0 A	10	9.0 gpm	9 gpm	378	**2EHL8**
	8.0 A	12	7.0 gpm	8 gpm	528	**2EHP8**
1 hp	9.8 A	7	17.0 gpm	20 gpm	273	**2EHR3**
	9.8 A	11	12.0 gpm	13 gpm	427	**2EHR2**
2 hp	10 A	10	25 gpm	33 gpm	288	**7YT22**
	10 A	10	28 gpm	32 gpm	288	**7YT24**
3 hp	14 A	8	32 gpm	60 gpm	630	**7YT20**
	14 A	11	41 gpm	48 gpm	350	**7YT18**
5 hp	23 A	12	60 gpm	90 gpm	390	**7YT30**
	23 A	13	60 gpm	60 gpm	375	**7YT27**
	23 A	18	52 gpm	45 gpm	283	**7YT26**
480V AC, 3 Phase (Control Box Required)						
2 hp	3.4 A	10	25.0 gpm	35 gpm	470	**7YT17**
3 hp	4.8 A	11	41.0 gpm	45 gpm	283	**7YT25**
5 hp	8.0 A	13	60.0 gpm	60 gpm	390	**7YT29**

2EHR4

7YT24

Spring Check and Foot Valves

Prevent backflow or loss of prime.

Ductile-Iron—For use with high-flow submersible well pumps and have no leaded components.

Lead-Free and Low-Lead—Stainless steel spring and screen; nitrile seal. Lead-Free Brass Check Valves have a nonspin acetal poppet. Lead-Free Bronze Foot Valves have an Enviro-Check body. Low-Lead Brass Check and Foot Valves have bronze seat.

PVC—Stainless steel spring and raised-radius valve seat for positive seal.

Acetal Resin Copolymer—Convert to check valves by removing the strainer; convert to check/foot valves by removing the spring. Lead-free components.

Material of Construc.	Size	Connec. Type	Max. Temp.	L	Brand	Item No.
Spring Check Valve						
Ductile Iron	2 in	MNPT x FNPT	180 °F	—	Dayton	**4RK71**
	3 in	MNPT x FNPT	180 °F	—	Dayton	**4RK70**
Lead-Free Brass	¾ in	FNPT	180 °F	3 in	Campbell	**5YM04**
	1 in	FNPT	180 °F	3 ½ in	Campbell	**5YM05**
	1¼ in	FNPT	180 °F	3 ¾ in	Campbell	**5YM06**
	1½ in	FNPT	180 °F	4 in	Campbell	**5YM07**
	2 in	FNPT	180 °F	5 in	Campbell	**5YM08**
Low-Lead Brass	¾ in	FNPT	158 °F	3 in	Campbell	**36Y047**
	1 in	FNPT	158 °F	3 ½ in	Campbell	**36Y048**
	1¼ in	FNPT	158 °F	3 ¾ in	Campbell	**36Y049**
	1½ in	FNPT	158 °F	4 in	Campbell	**36Y050**
	2 in	FNPT	158 °F	5 in	Campbell	**36Y051**
PVC	½ in	FNPT	120 °F	4 13⁄32 in	Dayton	**4RG64**
	¾ in	FIPT	120 °F	4 19⁄32 in	Dayton	**4RG65**
	¾ in	SLIP	120 °F	4 19⁄32 in	Dayton	**4RG71**
	1 in	FIPT	120 °F	5 ¾ in	Dayton	**4RG66**
	1 in	SLIP	120 °F	5 ¾ in	Dayton	**4RG72**
	1¼ in	SLIP	120 °F	6 ⅜ in	Dayton	**4RG73**
	1½ in	FIPT	120 °F	6 ¾ in	Dayton	**4RG68**
	1½ in	SLIP	120 °F	6 ¾ in	Dayton	**4RG74**
	2 in	FIPT	120 °F	7 15⁄16 in	Dayton	**4RG69**
	2 in	SLIP	120 °F	7 15⁄16 in	Dayton	**4RG75**

PVC
4RG64

Low-Lead Brass
36Y052

Material of Construc.	Size	Connec. Type	Max. Temp.	L	Brand	Item No.
Spring Foot Valve						
Acetal Resin Copolymer	¾ in	FNPT	180 °F	4 29⁄32 in	Brady	**2A646**
	1 in	FNPT	180 °F	5 ⅜ in	Brady	**2A647**
	1¼ in	FNPT	180 °F	6 ⅛ in	Brady	**2A648**
	1½ in	FNPT	180 °F	7 3⁄16 in	Brady	**2A649**
Lead-Free Bronze	¾ in	FNPT	180 °F	3 35⁄64 in	Campbell	**5YM09**
	1 in	FNPT	180 °F	4 ¾ in	Campbell	**5YM10**
	1¼ in	FNPT	180 °F	4 ¾ in	Campbell	**5YM11**
	1½ in	FNPT	180 °F	2 ½ in	Campbell	**5YM12**
	2 in	FNPT	180 °F	3 in	Campbell	**5YM13**
Low-Lead Brass	¾ in	FNPT	158 °F	3 ¾ in	Campbell	**36Y052**
	1 in	FNPT	158 °F	4 ¾ in	Campbell	**36Y053**
	1¼ in	FNPT	158 °F	4 ¾ in	Campbell	**36Y054**
	1½ in	FNPT	158 °F	2 ½ in	Campbell	**36Y055**
	2 in	FNPT	158 °F	3 in	Campbell	**36Y056**

Fiberglass 16X844 | Fiberglass 5PFW1 | Steel 3GVU2

Dayton®

Well Water Tanks

Act as a reservoir to store water and keep the pressure consistent to reduce the start/stop cycling of the pump. Tanks keep the water pressure constant with an air bladder system that is precharged (a set amount of air is pumped into the bladder) when the tank is assembled at the factory or charged with an air compressor just before installation. Models without an air bladder require an air volume control to maintain air pressure for a consistent water flow. All tanks when used with pumps require a relief valve sold on page 2894.

Fiberglass Body—Rust-, dent-, and scratch-resistant high-density polyethylene composite is half the weight of steel. Base rotates 360°. Chlorine-resistant butyl air cell allows easy maintenance and will not affect water purity.

Steel Body—All-welded steel tanks have a butyl diaphragm system and are for use indoors or out. Models are for both residential and commercial water and booster systems. Tanks are coated epoxy inside, blue polyester outside.

Body Material	Tank Cap.	Drawdown @ 30-50 PSI	Precharge Pressure (psi)	Tank Orientation	Max. Water Temp.	Inlet	Dia.	Overall Height	Item No.
Contact									
Fiberglass	120.0 gal	—	—	Vertical	120 °F	1¼"	24"	72½"	**5PFV2**
Nonpressurized									
Fiberglass	120.0 gal	26 gpm	—	Vertical	120 °F	1¼"	24"	72½"	**5PFW1**
Precharged									
Fiberglass	20.0 gal	6.1 gpm	40	Vertical	120 °F	1"	16"	34⅛"	**16X840**
	40.0 gal	12.5 gpm	40	Vertical	120 °F	1"	16"	59"	**16X847**
	80.0 gal	24.6 gpm	40	Vertical	120 °F	1¼"	21"	65½"	**16X849**
	119 gal	37 gpm	40	Vertical	120 °F	1¼"	24"	75⅜"	**16X844**
Steel	5.0 gal	1.8 gpm	30	Vertical	120 °F	¾"	10⅝"	16³⁄₁₆"	**5PFT9**
	6.0 gal	1.8 gpm	40	Vertical	120 °F	¾"	12"	16⅛"	**5PFV1**
	119.0 gal	32.1 gpm	40	Vertical	140 °F	1¼"	26"	59¾"	**3GVU2**

Campbell | Simmons | Brady®

Well Accessories

Use only with nonflammable liquids compatible with pump component materials and in nonflammable/nonexplosive atmospheres.

Item	Brand	Item No.
Well Seals, ABS Body, PVC Gasket		
1 in Drop Pipe Dia., 1 in Cable Hole Dia., 6 in Casing I.D.	Campbell	**5YM64**
1 in Drop Pipe Dia., ¾ in Cable Hole Dia., 4 in Casing I.D.	Campbell	**5YM62**
1 ¼ in Drop Pipe Dia., 1 in Cable Hole Dia., 6 in Casing I.D.	Campbell	**5YM65**
1 ¼ in Drop Pipe Dia., ½ in Cable Hole Dia., 4 in Casing I.D.	Campbell	**5YM63**
1 in, 1 ¼ in Drop Pipe Dia., 4 in Casing I.D.	Campbell	**5YM59**
Well Caps		
ABS Body, Rubber Gasket, 6 in Casing I.D.	Campbell	**2NRE6**
Cast Iron Body, 6 ⅝ in Casing I.D.	Campbell	**2NRF1**
Well Points, Galvanized Steel, Stainless Steel Body		
24 in L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM69**
24 in L, 1 ¼ in O.D., 60 Gauze, 400 Max. Press.	Simmons	**482A38**
30 in L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM71**
36 in L, 1 ¼ in O.D., 60 Gauze	Campbell	**5YM73**
48 in L, 2 in O.D., 80 Gauze	Campbell	**5YM70**
Pitcher Pump		
Cast Iron, 15 in H, 1 ¼ in Inlet Dia.	Simmons	**482A52**
Cast Iron, 17 ½ in H, 1 ¼ in Inlet Dia.	Campbell	**5YM61**
Barbed Hose Fitting		
¾ in x ¾ in, Hose Barb x NPT	Campbell	**5YM52**
1 in x 1 in, Hose Barb x NPT	Campbell	**5YM53**
1¼ in x 1¼ in, Hose Barb x NPT	Campbell	**5YM54**
1½ in x 1½ in, Hose Barb x NPT	Campbell	**5YM55**
2 in x 2 in, Hose Barb x NPT	Campbell	**5YM56**
Pitless Adapter		
1 in Inlet/Outlet, 100 psi Max., Low Lead Brass	Campbell	**38G635**
Well Tank Accessories		
¼ in Comp. Tank Port, ¼ in Comp. Suction Port, 20 to 60 psi, Zinc Body	Brady	**3A421**
1¼ in MPT Tank Port, 1¼ in MPT Suction Port, 20 to 100 psi, Zinc Body	Campbell	**29AH95**
1000 ft. Rope, 700 lb Tensile Strength	Campbell	**2NRE9**
Drive Cap, Malleable Iron Body, 1 ¼ in O.D.	Campbell	**5YM57**
Drive Cap, Malleable Iron Body, 2 in O.D.	Campbell	**5YM58**
Drive Coupling, Galvanized Steel Body, 1 ¼ in O.D.	Campbell	**5YM76**
Drive Coupling, Galvanized Steel Body, 2 in O.D.	Campbell	**5YM77**
Torque Arrestor PVC, Stainless Steel Body, 1 in to 2 in Drop Pipe, 4 in to 8 in Casing I.D.	Campbell	**5YM80**

6LFA2

Bell & Gossett
a xylem brand

Water Pressure Reducing Valves

- Max. pressure: 125 psi
- Max. temp.: 225°F

Use to control and protect plumbing systems by reducing the downstream pressure. They decrease the psi of water entering buildings from municipal water mains to avoid ruptured pipes and damaged fixtures in commercial, industrial, or institutional facilities.

Pipe Size	L	Material	Mfr. Model	Item No.
½ in	3 ¹⁄₁₆ in	Brass	110192LF	**6LFA4**
	6 ⁷⁄₁₆ in	Cast Iron/Brass	8	**6LFA2**
	6 ⁷⁄₁₆ in	Brass	110197LF	**6LFA5**
¾ in	3 in	Brass	110196LF	**6LFA3**

4JB11

Bell & Gossett
a xylem brand

Enhanced Air Separators

- Max. pressure: 150 psi
- Max. temp.: 250°F

Remove 99% of entrained air in hydronic heating systems.

Max. Flow (gpm)	Max. Working Pressure (psi)	Inlet	Outlet	H (in.)	W (in.)	Mfr. Model	Item No.
Cast Iron, Max. Temp.: 300 °F							
35 gpm	175 psi	1½" NPT	1½" NPT	8 ⅛	4 ½	1AS-1.5	**6ETT6**
50 gpm	175 psi	2" NPT	2" NPT	8 ⅛	4 ½	1AS-2	**6ETT7**
75 gpm	175 psi	2½" NPT	2½" NPT	10 ⅛	6 ⅜	1AS-2.5	**6ETT8**
Bronze, Max. Temp.: 250 °F							
6 gpm	150 psi	¾" NPT	¾" NPT	6 ⅞	3 ⅝	EASB-3/4JR	**4JB11**
12 gpm	150 psi	1" NPT	1" NPT	6 ⅞	3 ⅝	EASB-1JR	**4JB12**
20 gpm	150 psi	1¼" NPT	1¼" NPT	7 ½	4 ⅝	EASB-1-1/4 JR	**4JB13**
30 gpm	150 psi	1½" NPT	1½ NPT	7 ½	4 ⅝	EASB-1-1/2 JR	**4JB17**
Brass, Max. Temp.: 240 °F							
—	35 psi	⅛" MNPT	—	3 ³⁄₁₆	1 ½	67	**6LFC1**
	150 psi	½" FNPT, 3/4" MNPT	—	4 ¾	2 ¼	87	**6ETU7**

ARMSTRONG | Bell & Gossett a xylem brand | Taco Comfort Solutions

Hydronic Circulating Pumps

- Cast-iron housing
- Flange connection

These pumps move water through a closed system of pipes in heating applications or water recirculation systems. The pump is mounted in-line near the boiler and recirculates the water through a closed-loop piping system where water does not exit the pipes. Pumps are painted red or green to identify them as hydronic pumps and are primarily used for radiant heating in residential, commercial, and industrial buildings. HVAC circulating pumps maintain a watertight seal with pipe flanges connected to hydronic system plumbing. Cast-iron housings are for use with deoxygenated or chemically treated water. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Standard pumps have fewer replaceable wear parts than 3-piece circulating pumps.

3-piece pumps have a detachable pump, motor, and bearing assembly to aid maintenance and replacement needs. They are capable of handling higher head and flow rates than standard pumps.

Multi-speed pumps have three speeds that can be manually adjusted to meet different performance levels. Pump performance needs can change based on the configuration of a plumbing system or to meet periods of low and high demand. They work well as a replacement pump because they can match the performance of most standard circulating pumps. The maximum flow at feet of head is listed at the pump's maximum speed setting.

Energy efficient pumps use less energy than other circulating pumps. They have an electronically commutated motor (ECM) that automatically adjusts the flow rate through variable speed control to meet hot water demand. The maximum flow at feet of head is listed at the pump's maximum speed setting.

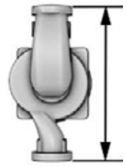
Standard Taco 5CHK9

3-Piece Bell & Gossett 4RD16

Multi-Speed Armstrong 32UN04

Multi-Speed Bell & Gossett 3NVG3

Energy Efficient Taco 485A35


Face to Face Dimension

Horsepower	Voltage	Maximum Flow Rate @ 5 Feet of Head	Maximum Flow Rate @ 10 Feet of Head	Maximum Flow Rate @ 15 Feet of Head	Maximum Feet of Head	Face to Face Dimension	Compatible Pipe Size	Flange or Union Included	No. of Speeds	Series	Mfr. Model	Item No.
Standard Hydronic Circulating Pumps												
ARMSTRONG PUMPS INC. Single Phase												
1/6	115V AC	28 gpm	24 gpm	18 gpm	29 ft	6⅜"	1¼"	Yes	1	E7.2	182202-643	**52CE20**
	115V AC	36 gpm	32 gpm	28 gpm	43 ft	6⅜"	1¼"	Yes	1	E9.2	182202-659	**52CE23**
	115V AC	38 gpm	32 gpm	26 gpm	28 ft	8½"	1½"	Yes	1	E10.2	182202-649	**32UN21**
	115V AC	42 gpm	36 gpm	30 gpm	32 ft	8½"	1½"	Yes	1	E11.2	182202-651	**52CE22**
	240V AC	36 gpm	32 gpm	28 gpm	34 ft	6⅜"	1¼"	Yes	1	E8.2	182202-645	**52CE21**
2/5	115V AC	76 gpm	72 gpm	64 gpm	36 ft	8½"	1½"	Yes	1	E23.2	182212-651	**32UM84**
	115V AC	112 gpm	95 gpm	74 gpm	22 ft	8½"	2"	Yes	1	E30.2-2	182212-645	**32UM88**
BELL & GOSSETT Single Phase												
1/40	115V AC	5 gpm	—	—	8 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	NRF-9F/LW	103267	**4YM17**
1/25	115V AC	15 gpm	7 gpm	0 gpm	15 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	NRF-22	103251	**4RD04**
1/12	115V AC	25 gpm	20 gpm	15 gpm	25 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	PL-30	1BL012	**4JA83**
1/6	115V AC	37 gpm	34 gpm	30 gpm	37 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	PL-36	1BL001	**4JA84**
	115V AC	45 gpm	43 gpm	33 gpm	31 ft	8½"	1", 1 ¼", 1 ½"	No	1	PL-45	1BL002	**4JA85**
	115V AC	50 gpm	40 gpm	20 gpm	17 ft	8½"	1", 1 ¼", 1 ½"	No	1	PL-50	1BL016	**4JA86**
TACO Single Phase												
1/35	115V AC	11 gpm	—	—	9 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	005	005-F2	**5P427**
	240V AC	11 gpm	—	—	9 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	005	005-F4Y	**13L284**
1/25	115V AC	12 gpm	8 gpm	2 gpm	16 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	008	008-F6	**4PC92**
	115V AC	15 gpm	0 gpm	—	10 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	007	007-F5	**4PC90**
1/10	115/240V AC	—	18 gpm	14 gpm	22 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	2400-10	2400-10-3P	**5CHJ9**
1/8	115V AC	9 gpm	8 gpm	7 gpm	35 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	009	009-F5	**4PC94**
	115V AC	22 gpm	0 gpm	—	10 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	0010	0010-F3	**4PC77**
	115V AC	25 gpm	19 gpm	12 gpm	22 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	0014	0014-F1	**4PC84**
	115V AC	27 gpm	23 gpm	18 gpm	31 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	0011	0011-F4	**4PC78**
	115V AC	45 gpm	25 gpm	0 gpm	15 ft	8½"	2"	Yes	1	0012	0012-F4-1	**4PC80**
1/6	115/240V AC	—	26 gpm	16 gpm	19 ft	8½"	1¼", 1 ½"	No	1	2400-40	2400-40-3P	**5CHK5**
	115/240V AC	—	30 gpm	24 gpm	29 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	2400-20	2400-20-3P	**5CHK1**
	115/240V AC	—	38 gpm	30 gpm	27 ft	8½"	1¼", 1 ½"	No	1	2400-30	2400-30-3P	**5CHK3**
	115/240V AC	—	40 gpm	8 gpm	15 ft	8½"	2"	No	1	2400-60	2400-60-3P	**6DLD7**
	115V AC	30 gpm	26 gpm	21 gpm	33 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	0013	0013-F3	**4PC82**
1/2	115/240V AC	—	—	—	46 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	2400-50	2400-50-3P	**5CHK7**
	115/240V AC	—	—	76 gpm	23 ft	8½"	2"	No	1	2400-70	2400-70-3P	**5CHK9**
3-Piece Hydronic Circulating Pumps												
ARMSTRONG PUMPS INC. Single Phase												
1/12	115V AC	28 gpm	—	—	8 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	S-25	174031MF-013	**52CE14**
1/6	115V AC	30 gpm	22 gpm	12 gpm	18 ft	8½"	1"	Yes	1	H-41	174035MF-113	**52CE18**
	115V AC	50 gpm	28 gpm	—	13 ft	8½"	2"	Yes	1	S-35	174033MF-013	**52CE15**
	115V AC	—	28 gpm	—	14 ft	8½"	1", 1 ¼", 1 ½"	No	1	H-32	174034MF-013	**52CE16**
1/4	115V AC	55 gpm	40 gpm	30 gpm	25 ft	11½"	1"	Yes	1	H-51	116431MF-132	**52CE10**
3/4	115/240V AC	95 gpm	85 gpm	80 gpm	46 ft	13½"	1½"	Yes	1	H-64	116475-132	**32UM80**
	115V AC	120 gpm	110 gpm	105 gpm	30 ft	11½"	2"	Yes	1	H-54	116451MF-132	**52CE12**
ARMSTRONG PUMPS INC. Three Phase												
3/4	208-240/460V AC	95 gpm	85 gpm	80 gpm	46 ft	13½"	1½"	Yes	1	H-64	116479-136A	**32UM81**
BELL & GOSSETT Single Phase												
1/12	115V AC	22 gpm	—	—	8 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	100 NFI	106189	**4RD16**
1/6	115V AC	27 gpm	22 gpm	13 gpm	18 ft	8½"	¾", 1", 1 ¼", 1 ½"	No	1	PR	102206	**4RC91**
	115V AC	34 gpm	22 gpm	—	12 ft	8½"	1", 1 ¼", 1 ½"	No	1	HV NFI	102210	**4RC93**
	115V AC	57 gpm	0 gpm	—	10 ft	8½"	2"	Yes	1	2 in NFI	102214	**4RC95**
1/4	115/208-240V AC	55 gpm	40 gpm	30 gpm	19 ft	11"	1¼"	Yes	1	E604S	1EF016LF	**422W68**
	115/208-240V AC	55 gpm	45 gpm	20 gpm	18 ft	11"	1"	Yes	1	E601S	1EF011LF	**422W57**
	115V AC	97 gpm	65 gpm	17 gpm	16 ft	10"	2½"	Yes	1	2½ in	102218	**4RC97**
	115V AC	97 gpm	65 gpm	17 gpm	16 ft	10"	3"	Yes	1	LD3	102222	**4RC99**
1/3	115/208-240V AC	65 gpm	60 gpm	50 gpm	24 ft	11"	1¼"	Yes	1	E605S	1EF017LF	**422W58**
	115/240V AC	107 gpm	85 gpm	53 gpm	18 ft	10"	3"	Yes	1	HD3	102226	**4RD02**
1/2	115/208-240V AC	—	90 gpm	85 gpm	24 ft	11½"	1½"	Yes	1	E608S	1EF022LF	**422W67**
	115/208-240V AC	—	120 gpm	90 gpm	17 ft	11½"	2"	Yes	1	E610S	1EF026LF	**422W56**
	115/240V AC	—	105 gpm	80 gpm	23 ft	12"	3"	Yes	1	PD35S	105089	**4RD13**
3/4	115/208-240V AC	—	110 gpm	100 gpm	33 ft	13½"	1½"	Yes	1	E613S	1EF031LF	**422W70**
	115/208-240V AC	—	155 gpm	120 gpm	24 ft	11½"	2"	Yes	1	E611S	1EF027LF	**422W69**
	115/240V AC	—	—	125 gpm	30 ft	12"	3"	Yes	1	PD37S	105097	**4RD14**
1	115/208-240V AC	—	—	—	38 ft	13½"	1½"	Yes	1	E623S	1EF067LF	**422W75**
BELL & GOSSETT Three Phase												
1/2	208-240/460V AC	—	90 gpm	85 gpm	24 ft	11½"	1½"	Yes	1	E608T	1EF047LF	**422W71**
3/4	208-240/460V AC	—	155 gpm	120 gpm	24 ft	11½"	2"	Yes	1	E611T	1EF053LF	**422W72**
1 1/2	208-240/460V AC	—	—	—	46 ft	13½"	1½"	Yes	1	E617T	1EF062LF	**422W73**
1	208-240/460V AC	—	—	130 gpm	32 ft	14"	2"	Yes	1	E624T	1EF072LF	**422W76**
1 1/2	208-240/460V AC	—	—	170 gpm	39 ft	14"	2"	Yes	1	E625T	1EF073LF	**422W77**
2	208-240/460V AC	—	—	—	45 ft	14"	2"	Yes	1	E619T	1EF063LF	**422W74**

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Hydronic Circulating Pumps

ARMSTRONG | Bell & Gossett a xylem brand | Taco Comfort Solutions

Horsepower	Voltage	Maximum Flow Rate @ 5 Feet of Head	Maximum Flow Rate @ 10 Feet of Head	Maximum Flow Rate @ 15 Feet of Head	Maximum Feet of Head	Face to Face Dimension	Compatible Pipe Size	Flange or Union Included	No. of Speeds	Series	Mfr. Model	Item No.
Multi-Speed Hydronic Circulating Pumps												
ARMSTRONG PUMPS INC. Single Phase												
⅛	115V AC	14 gpm	9 gpm	3 gpm	18 ft	6⅜"	1¼"	Yes	3	Astro 230CI	110223-305	**32UN13**
⅕	115V AC	18 gpm	11 gpm	7 gpm	24 ft	6⅜"	½"	Yes	3	Astro 250CI	110223-307	**52CE09**
5/16	115V AC	28 gpm	24 gpm	19 gpm	31 ft	6½"	1¼"	Yes	3	Astro 280CI	110223-320	**32UN04**
	115V AC	46 gpm	28 gpm	—	14 ft	8½"	2½"	Yes	3	Astro 290CI	110223-328	**32UN08**
	240V AC	28 gpm	24 gpm	19 gpm	31 ft	6½"	1¼"	Yes	3	Astro 280CI	110223-322	**32UN05**
BELL & GOSSETT Single Phase												
1/15	115V AC	18 gpm	12 gpm	5 gpm	18 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	3	NRF-25	103417	**3NVG3**
⅙	115V AC	33 gpm	28 gpm	24 gpm	33 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	3	NRF-36	103400	**3NVG4**
	115V AC	39 gpm	31 gpm	23 gpm	28 ft	8½"	1", 1 ¼", 1 ½"	No	3	NRF-45	103404	**3NVG5**
TACO Single Phase												
⅙	115V AC	30 gpm	26 gpm	21 gpm	33 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	3	0013	0013-MSF2-IFC	**44ZD45**
Energy Efficient Hydronic Circulating Pumps												
ARMSTRONG PUMPS INC. Single Phase												
1/16	115V AC	15 gpm	10 gpm	5 gpm	20 ft	6½"	1"	Yes	Variable	Compass H20-20	180203-686	**32UN20**
⅒	115V AC	15 gpm	10 gpm	5 gpm	20 ft	6½"	½"	No	Variable	Compass H20-20	180203-687	**52CE19**
TACO Single Phase												
1/25	115V AC	12 gpm	8 gpm	5 gpm	18 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	Variable	0015E	VM1816-HY2-FC2A00	**53VF89**
⅒	240V AC	320 gpm	275 gpm	240 gpm	38 ft	14 3/16"	3"	Yes	Variable	00E VR	VR30-3	**485A35**
½	115/240V AC	165 gpm	125 gpm	95 gpm	41 ft	11"	2"	Yes	Variable	00E VR	VR20M-F	**39L623**

ARMSTRONG | Bell & Gossett a xylem brand | Taco Comfort Solutions | GOULDS PUMPS

Potable Circulating Pumps

Standard Armstrong 32UN17

3-Piece Bell & Gossett 5JPD9

Multi-Speed Arrmstrong 32UN06

Energy Efficient Armstrong 788V82

Under-Sink Goulds 10D425

Face to Face Dimension

Potable circulating pumps move hot water through pipe systems to faucets and shower heads. These pumps are certified for potable water and are constructed of bronze, stainless steel or brass to prevent corrosion. Their gold color helps identify them as potable water pumps. They reduce water waste by recirculating hot water that has cooled back into the cold water supply line. Pumps are used in residential, commercial, and industrial applications to help plumbing systems deliver instant hot water. They mount to the pipe in-line near the water heater or boiler, except under-sink units mount at the farthest faucet from the water heater. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Standard pumps have fewer replaceable wear parts than 3-piece circulating pumps.

3-piece pumps have a detachable pump, motor, and bearing assembly to aid maintenance and replacement needs. They are capable of handling higher head and flow rates than standard pumps. In most cases, these pumps can be left in place while serviced which reduces system downtime.

Multi-speed pumps have three speeds that can be manually changed to meet different performance levels. Pump performance needs can change based on the configuration of a plumbing system or to meet periods of low and high demand. They work well as a replacement pump because they can match the performance of most standard circulating pumps.

Energy efficient pumps use less energy than other circulating pumps. They have an electronically commutated motor (ECM) that automatically adjusts the flow rate through variable speed control to meet hot water demand.

Under-sink pumps pull hot water from the heating source through the pipes to provide instant hot water for all faucets between the water heater and the pump. They can be used where a dedicated water return line is not available.

Horsepower	Voltage	Maximum Flow Rate @ 5 Feet of Head	Maximum Flow Rate @ 10 Feet of Head	Maximum Flow Rate @ 15 Feet of Head	Maximum Feet of Head	Face to Face Dimension	Compatible Pipe Size	Flange or Union Included	No. of Speeds	Pump Housing Material	Series	Mfr. Model	Item No.
Standard Potable Circulating Pumps													
ARMSTRONG PUMPS INC. Single Phase													
⅙	115V AC	38 gpm	32 gpm	26 gpm	28 ft	8½"	1½"	Yes	1	Bronze	E10.2B	182202-650	**32UN17**
⅖	115V AC	76 gpm	72 gpm	64 gpm	36 ft	8½"	1½"	Yes	1	Bronze	E23.2B	182212-652	**32UM86**
	115V AC	112 gpm	95 gpm	74 gpm	22 ft	8½"	2"	Yes	1	Bronze	E30.2B-2	182212-646	**32UM90**
BELL & GOSSETT Single Phase													
1/40	115V AC	10 gpm	3 gpm	—	12 ft	6⅛"	½", ¾"	No	1	Bronze	NBF-12U/LW	103261LF	**5JPA9**
1/25	115V AC	15 gpm	8 gpm	0 gpm	15 ft	6⅛"	½", ¾"	No	1	Bronze	NBF-22U	103255LF	**5JPC1**
	115V AC	15 gpm	8 gpm	0 gpm	15 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Bronze	NBF-22	103252LF	**5JPC0**
1/12	115V AC	25 gpm	20 gpm	15 gpm	25 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Bronze	PL-30B	1BL013LF	**5JPC2**
⅙	115V AC	37 gpm	34 gpm	30 gpm	37 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Bronze	PL-36B	1BL003LF	**5JPC3**
	115V AC	45 gpm	43 gpm	33 gpm	31 ft	8½"	1", 1 ¼", 1 ½"	No	1	Bronze	PL-45B	1BL004LF	**5JPC4**
	115V AC	50 gpm	40 gpm	20 gpm	17 ft	8½"	1", 1 ¼", 1 ½"	No	1	Bronze	PL-50B	1BL017LF	**5JPC5**
TACO Single Phase													
1/40	240V AC	7 gpm	0 gpm	—	10 ft	4¼"	½"	—	1	Bronze	006	006-BC8Y	**13L286**
	115V AC	7 gpm	0 gpm	—	10 ft	4⅜"	¾"	—	1	Bronze	006	006-B4-14	**4YVF8**
	240V AC	7 gpm	0 gpm	—	10 ft	4"	¾"	—	1	Stainless Steel	006	006-ST8Y	**13L287**
	115V AC	7 gpm	0 gpm	—	10 ft	4⅜"	¾"	—	1	Bronze	006	006-B4-15	**4YVF5**
	115V AC	7 gpm	0 gpm	—	10 ft	4"	¾"	—	1	Stainless Steel	006	006-ST4-1	**3GZW3**
1/35	115V AC	11 gpm	—	—	9 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	005	005-SF2	**3GZW2**
1/25	240V AC	12 gpm	8 gpm	0 gpm	15 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	008	008-SF7Y	**3GZV5**
	115V AC	12 gpm	8 gpm	2 gpm	16 ft	6⅜"	¾"	—	1	Bronze	008	008-BC6	**4YVF6**
	115V AC	12 gpm	8 gpm	0 gpm	15 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	008	008-SF6	**3GZW5**
	115V AC	15 gpm	0 gpm	—	10 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	007	007-SF5	**3GZV9**
⅒	115/240V AC	—	18 gpm	14 gpm	22 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	2400-10	2400-10S-3P	**5CHK0**
⅛	115V AC	9 gpm	8 gpm	7 gpm	35 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	009	009-SF5	**3GZW1**
	115V AC	22 gpm	0 gpm	—	10 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	0010	0010-SF3-IFC	**3GZV4**
	115V AC	25 gpm	19 gpm	12 gpm	22 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	0014	0014-SF1	**3GZV8**
	115V AC	27 gpm	23 gpm	18 gpm	31 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	0011	0011-SF4	**30K927**
	115V AC	39 gpm	24 gpm	0 gpm	15 ft	8½"	1½"	Yes	1	Stainless Steel	0012	0012-SF4	**3GZV6**
⅙	115V AC	30 gpm	26 gpm	21 gpm	33 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	0013	0013-SF3	**3GZV7**
	115/240V AC	—	30 gpm	24 gpm	29 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	2400-20	2400-20S-3P	**5CHK2**
	115/240V AC	—	38 gpm	30 gpm	27 ft	8½"	1¼", 1 ½"	No	1	Stainless Steel	2400-30	2400-30S-3P	**5CHK4**
½	115/240V AC	—	—	—	46 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Stainless Steel	2400-50	2400-50S-3P	**5CHK8**
3-Piece Potable Circulating Pumps													
ARMSTRONG PUMPS INC. Single Phase													
⅙	115V AC	—	28 gpm	—	14 ft	8½"	1", 1 ¼", 1 ½"	No	1	Bronze	H-32	174034MF-043	**52CE17**
½	115V AC	95 gpm	85 gpm	75 gpm	28 ft	11½"	1½"	Yes	1	Bronze	H-53	116440MF-133	**52CE11**
¾	115/240V AC	95 gpm	85 gpm	80 gpm	46 ft	13½"	1½"	Yes	1	Bronze	H-64	116476LF-133	**32UM82**

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Potable Circulating Pumps

ARMSTRONG | Bell & Gossett a xylem brand | Taco Comfort Solutions | GOULDS PUMPS

Horsepower	Voltage	Maximum Flow Rate @ 5 Feet of Head	Maximum Flow Rate @ 10 Feet of Head	Maximum Flow Rate @ 15 Feet of Head	Maximum Feet of Head	Face to Face Dimension	Compatible Pipe Size	Flange or Union Included	No. of Speeds	Pump Housing Material	Series	Mfr. Model	Item No.
ARMSTRONG PUMPS INC. Three Phase													
¾	208-240/460V AC	95 gpm	85 gpm	80 gpm	46 ft	13½"	1½"	Yes	1	Bronze	H-64	116480LF-137A	**32UM83**
BELL & GOSSETT Single Phase													
1/12	115V AC	22 gpm	—	—	8 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	1	Bronze	100 BNFI	106197LF	**5JPD9**
⅙	115V AC	27 gpm	22 gpm	13 gpm	18 ft	8½"	¾", 1", 1 ¼", 1 ½"	No	1	Bronze	PR-AB	102208LF	**5JPD3**
	115V AC	38 gpm	22 gpm	—	12 ft	8½"	1", 1 ¼", 1 ½"	No	1	Bronze	HV BNFI	102213LF	**5JPD4**
	115V AC	57 gpm	0 gpm	—	10 ft	8½"	2"	Yes	1	Bronze	2 BNFI	102217LF	**5JPD5**
¼	115/208 -240V AC	55 gpm	40 gpm	30 gpm	19 ft	11"	1¼"	Yes	1	Bronze	BE604S	1EF018LF	**422W59**
	115/208 -240V AC	55 gpm	45 gpm	20 gpm	18 ft	11"	1"	Yes	1	Bronze	BE601S	1EF013LF	**422W62**
	115V AC	97 gpm	65 gpm	17 gpm	16 ft	10"	2½"	Yes	1	Bronze	2 ½ AB	102220LF	**5JPD6**
	115V AC	98 gpm	65 gpm	17 gpm	16 ft	10"	3"	Yes	1	Bronze	LD3 AB	102224LF	**5JPD7**
⅓	115/208 -240V AC	65 gpm	60 gpm	50 gpm	24 ft	11"	1¼"	Yes	1	Bronze	BE605S	1EF019LF	**422W63**
	115/240V AC	107 gpm	83 gpm	50 gpm	18 ft	10"	3"	Yes	1	Bronze	HD3 AB	102228LF	**5JPD8**
½	115/208 -240V AC	—	90 gpm	85 gpm	24 ft	11½"	1½"	Yes	1	Bronze	BE608S	1EF024LF	**422W60**
	115V AC	—	105 gpm	80 gpm	23 ft	12"	3"	Yes	1	Bronze	PDB-35S	105092LF	**5JPF1**
	115/208 -240V AC	—	120 gpm	90 gpm	17 ft	11½"	2"	Yes	1	Bronze	BE610S	1EF028LF	**422W64**
¾	115/208 -240V AC	—	155 gpm	120 gpm	24 ft	11½"	2"	Yes	1	Bronze	BE611S	1EF029LF	**422W61**
	115V AC	—	—	125 gpm	30 ft	12"	3"	Yes	1	Bronze	PDB-37S	105100LF	**5JPF2**
BELL & GOSSETT Three Phase													
½	208-240/460V AC	—	90 gpm	85 gpm	24 ft	11½"	1½"	Yes	1	Bronze	BE608T	1EF050LF	**422W65**
¾	208-240/460V AC	—	155 gpm	120 gpm	24 ft	11½"	2"	Yes	1	Bronze	BE611T	1EF056LF	**422W66**
TACO Single Phase													
⅛	115V AC	42 gpm	22 gpm	—	12 ft	8¾"	¾", 1", 1 ¼", 1 ½"	No	1	—	—	111-8S	**30K953**
Multi-Speed Potable Circulating Pumps													
ARMSTRONG PUMPS INC. Single Phase													
1/32	115V AC	0 gpm	—	—	5 ft	6"	1¼"	—	3	Stainless Steel	Astro 220SSU050S-TA	110223B-140	**32UN16**
1/9	115V AC	11 gpm	6 gpm	—	13 ft	6"	1¼"	—	3	Stainless Steel	Astro 225SSU	110223-310	**32UN12**
⅛	115V AC	14 gpm	9 gpm	3 gpm	18 ft	6⅜"	1¼"	Yes	3	Stainless Steel	Astro 230SS	110223-306	**32UN10**
⅙	115V AC	15 gpm	11 gpm	7 gpm	24 ft	6⅜"	1¼"	Yes	3	Stainless Steel	Astro 250SS	110223-308	**32UN11**
5/16	240V AC	28 gpm	24 gpm	19 gpm	31 ft	6½"	1¼"	Yes	3	Stainless Steel	Astro 280SS	110223-323	**32UN07**
	115V AC	28 gpm	24 gpm	19 gpm	31 ft	6½"	1¼"	Yes	3	Stainless Steel	Astro 280SS	110223-321	**32UN06**
	115V AC	46 gpm	28 gpm	—	14 ft	8½"	2½"	Yes	3	Stainless Steel	Astro 290SS	110223-329	**32UN09**
BELL & GOSSETT Single Phase													
1/15	115V AC	18 gpm	13 gpm	5 gpm	18 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	3	Bronze	NBF-25	103418LF	**5JPA6**
⅙	115V AC	33 gpm	28 gpm	24 gpm	34 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	3	Bronze	NBF-36	103401LF	**5JPA7**
	115V AC	39 gpm	31 gpm	23 gpm	28 ft	8½"	1", 1 ¼", 1 ½"	No	3	Bronze	NBF-45	103405LF	**5JPA8**
TACO Single Phase													
1/20	115V AC	15 gpm	11 gpm	4 gpm	17 ft	6⅜"	¾", 1", 1 ¼", 1 ½"	No	3	Stainless Steel	0015	0015-MSSF3-IFC	**33HM87**
⅙	115V AC	30 gpm	15 gpm	0 gpm	15 ft	8½"	1½"	Yes	3	Stainless Steel	0012	0012-MSSF2-IFC	**44ZD44**
	115V AC	30 gpm	26 gpm	21 gpm	33 ft	6½"	¾", 1", 1 ¼", 1 ½"	No	3	Stainless Steel	0013	0013-MSSF2-IFC	**44ZD48**
Energy Efficient Potable Circulating Pumps													
ARMSTRONG PUMPS INC. Single Phase													
⅙	115V AC	41 gpm	39 gpm	27 gpm	40 ft	6½"	1½"	No	Variable	Stainless Steel	Compass R4045SS-8.5X2 (230V)	119382-173	**788V78**
½	240V AC	124 gpm	116 gpm	93 gpm	25 ft	10"	3"	No	Variable	Stainless Steel	Compass R25140SS-10X4 (230V)	119282-373	**788V82**
Under-Sink Potable Circulating Pumps													
GOULDS WATER TECHNOLOGY Single Phase													
1/150	115V AC	0 gpm	—	—	5 ft	4 13/32"	½"	—	1	Brass	E1	E1-BCAFNRTW-01	**10D425**
TACO Single Phase													
1/40	115V AC	—	0 gpm	—	10 ft	8¼"	¾"	—	1	Stainless Steel	HLS-2	HLS-1	**44ZD50**

5JPE0

5JPE1

5JPE2

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Unions for Circulating Pumps

- Bronze material

Unions allow for more connection type and pipe size options when mounting a circulating pump with union connections between two sections of pipe. They can act as an adapter between the pump's intake and discharge connections. Unions must match the material of the pump and the system in which it is used, hydronic or potable.

Mfr. Model	Compatible with Series	Union to Pump Connection Type	Union to Pump Connection Size	Union to Pipe Connection Type	Compatible Pipe Size	Item No.	Pkg. Qty.
Taco Unions for Circulating Pumps							
110-558		FNPT	½"	Sweat	½"	**33HM90**	1
Bell & Gossett Unions for Circulating Pumps							
113201LF	NBF	FNPT	¾"	Sweat	¾"	**5JPE0**	2
113202LF	NBF	FNPT	¾"	FNPT	¾"	**5JPE1**	2
113203LF	NBF	FNPT	½"	Sweat	½"	**5JPE2**	2
Armstrong Unions for Circulating Pumps							
810120-220	Astros	FNPT	1¼"	No-Union-Required	½"	**788VK7**	1
810120-222	Astros	FNPT	1¼"	No-Union-Required	¾"	**788VK8**	1
810120-224	Astros	FNPT	1¼"	FNPT	¾"	**788VL0**	1

Bell & Gossett Standard Flange 4RC77

Bell & Gossett Isolation Flange 4JA91

Taco Standard Flange 2KGW2

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Flanges for Circulating Pumps

- 2 mounting holes
- FNPT flange to pipe connection

Flanges allow for more connection type and pipe size options when mounting a flanged circulating pump inline between two sections of pipe. The flange can act as an adapter between the pumps intake and discharge connections. They should be matched with the compatible series and manufacturer model number of the pump. 4JA91 includes a ball valve which can shut down the water supply to the pump to facilitate maintenance and replacement.

Compatible Pipe Size	Mfr. Model	Compatible with Series	Flange Material	Item No.
BELL & GOSSETT Standard Type				
For Use With Hydronic Systems				
¾"	101201	100, Ecocirc XL, NRF-33, NRF-36 PL-30, NRF-9F/LW, PL-36, PL-55, PR, PR NRF-22, Series 100	Cast Iron	**4RC77**
1"	101202	100, PR	Cast Iron	**4RC78**
1"	101205	HV	Cast Iron	**4RC81**
1¼"	101203	100, PR	Cast Iron	**4RC79**
1½"	101204	100, PR	Cast Iron	**4RC80**
1½"	101207	HV	Cast Iron	**4RC83**
BELL & GOSSETT Isolation Type				
For Use With Potable Systems				
¾"	101221LF	100, LR, PR	Brass, Steel	**4JA91**
1"	101222LF	100, LR, PR	Brass, Steel	**4JA92**
TACO Standard Type				
For Use With Hydronic Systems				
¾"	110-251F	110, 2400	Cast Iron	**2KGW2**
For Use With Potable Systems				
¾"	110-251SF-1	110, 2400	Stainless Steel	**3GZU5**
1"	110-252SF	110, 2400	Stainless Steel	**3GZU6**

Flange Gaskets & Hardware Kits for Circulating Pumps

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Kits help mount the flange to the pump. Gaskets seal the connection, while bolts and screws secure the flange to the pump. These accessories are intended for use with a flange of the same brand and series.

Mfr. Model	Compatible with Manufacturer Model Number	Gasket Material	Includes	Item No.
Bell & Gossett Flange Hardware for Circulating Pumps				
P64910	106189, Series 100 BNFI	Rubber	(2) Flange Gaskets, (4) Capscrews, (4) Nuts	**3CEZ5**
P64940	102210, 608S, 608T, 613S, 617T, 623S, 90-15T, 90-16T, 90-17T, 90-18T, 90-33S, 90-36S, 90-37S, 90-37T	Rubber		**3CEZ7**
118368	102206, 102208LF, 106189, 106197LF	Nitrile Rubber	Flange Gasket	**3CFA6**
Taco Flange Hardware for Circulating Pumps				
007-007RP	0012-BF4-3, 0012-SF4, 1400-30b-3, 1400-40b-1, 2400-30S-3P, 2400-40S-3P	Nitrile Rubber	(2) Gaskets	**4DZP2**
1400-009RP	1400-60-1, 1400-70-1	Nitrile Rubber		**4DZP3**
Armstrong Flange Hardware for Circulating Pumps				
810120-350K	1050-2, 1060-2, 4360B-2, E16.2HT, E18.2HT, E30.2HT - 2", E32.2HT - 2", E33.2HT - 2", H-54, H-66, H-67, H-68, S-35	Rubber	Capscrews, Nuts	**788VC5**
810120-351K	Astro 230CI, Astro 230CI-R, Astro 230SS, Astro 250CI, Astro 250CI-R, Astro 250SS, Compass H 20-20CI, Compass H 20-20SS, E12.2HT, E14.2HT, E15.2HT, E7.2HT, E8.2HT, E9.2HT, S-25	Rubber		**788VC8**

3CFE9

Motors for Circulating Pumps

Bell & Gossett a xylem brand

Motors run on alternating current (AC) to power the pump to move hot water in hydronic heating systems and water recirculation equipment. These motors are intended to replace a motor in a 3-piece circulating pump of the same brand, series, and manufacturer model number. They are commonly used to replace damaged water circulator motors.

Horsepower	Voltage	Compatible with Manufacturer Model Number	Mfr. Model	Item No.
Single Phase				
1/12	115V AC	106189, Series 100 BNFI	111034	**3CFE7**
1/6	115V AC	102206, PR AB	111031	**3CFE8**
1/6	115V AC	102210, 102214, 2" BNFI, HV BNFI	111061	**3CFE9**
1/4	115V AC	102218, 102222, 2½" AB, LD3 AB	111040	**3CFD8**
1/3	115/230V AC	102226, HD3 AB	111042	**3CFE1**
Three Phase				
1 ½	208-230/460V AC	617T, 625T	169237	**3CFE6**
2	208-230/460V AC	619T	169238	**3CFF1**

Repair Parts for Circulating Pumps

Bell & Gossett a xylem brand · Taco Comfort Solutions

These replacement parts should match the brand, series, and manufacturer model number of the pump.

Bearing assemblies sit between the motor and pump casing and transfer the power generated by the motor to the pump's impeller.

Seal and gaskets keep the circulating pump's motor and bearing assembly dry by preventing water from exiting the pump body.

Impellers move fluids through the system using centrifugal force.

Motor couplers connect motors to pumps and transfer the power generated by a motor to the pump's impeller. They provide alignment tolerance of the shaft while the pump is operating.

Motor cartridges are removable from the motor housing and contain the moving parts of the motor, such as the shaft, bearings, and the impeller. The cartridge can be removed and replaced without replacing the pump.

Motor mounts hold and support the circulating pump's motor inside the motor's housing. They work with motor couplers to maintain alignment between the motor and the pump.

Lubricants are used on the bearing assemblies of 3-piece circulating pumps.

Mfr. Model	Compatible with Manufacturer Model Number	Includes	Item No.
Bell & Gossett Bearing Assemblies for Circulating Pumps			
118844LF	106189	—	**3CEY7**
185260LF	105121	Seal Kit	**4RD75**
185332LF	601S, 601T, 602S, 602T, 603S, 603T, 604S, 604T, 605S, 605T, 606S, 606T, 607S, 607T, 608S, 608T, 609S, 609T, 610S, 610T, 611S, 611T, 612S, 612T, 613S, 613T, 614S, 614T, 615S, 615T, 616S, 616T, B601S, B601T, B602S, B602T, B603S, B603T, B604S, B604T, B605S, B605T, B606S, B606T, B607S, B607T, B608S, B608T, B609S, B609T, B610S, B610T, B611S, B611T, B612S, B612T, B613S, B613T, B614S, B614T, B615S, B615T, B616S, B616T	—	**5YN79**
185333LF	617T, 619T, 623S, 624T, 625T		**5YN80**
186863LF	105089, 105097		**4RD78**
189034LF	SERIES 100 BNFI		**3CEY8**
189105LF	102206, 102218, 102222, 102226, 2½" AB, HD3 AB, LD3 AB, PR AB		**4RD80**
189134LF	106189	Impeller	**4RD83**
189161LF	SERIES 100 BNFI	Gasket, Impeller, Tube of Oil	**4RD79**
189165LF	102210, 102213LF, 102214, 111061, 2" BNFI, HV BNFI	—	**4RD82**
189166LF	102210, HV BNFI	Impeller	**3CEY9**

Mfr. Model	Compatible with Manufacturer Model Number	Gasket Material	Item No.
Bell & Gossett Seals & Gaskets for Circulating Pumps			
118129	102218, 102222, 102224LF, 102226, 102228LF, 105089, 105097, 2½" AB	Nitrile Rubber	**3CFA9**
118373	102210, HV BNFI	Nitrile Rubber	**3CFA7**
118681LF	102206, 102210, 102214, 102218, 102222, 102224LF, 102226, 102228LF, 105089, 105097, 106189, 106197LF, 2½" AB, 2" BNFI, HV BNFI, PR AB	Nitrile Rubber	**3CFF5**
186499LF	105121	Nitrile Rubber	**3CFF4**

Mfr. Model	Compatible with Manufacturer Model Number	Gasket Material	Item No.
186862LF	160012, 160013, 160018, 160031, 160032, 160033, 160034, 160035, 161001, 161052, 161054	Nitrile Rubber	**6HKZ4**
189144LF	1BL001, 1BL002, 1BL003LF, 1BL004LF, 1BL012, 1BL013LF, 1BL016, 1BL017LF	EPT	**3CFF3**
P48690	1¼-4 BC	Composition	**6HKZ6**
P57410	105089, 105097	Nitrile Rubber	**3CFC1**
P57700	105121, 617T	Nitrile Rubber	**3CFA5**

Mfr. Model	Compatible with Manufacturer Model Number	Impeller Material	Overall Dia.	Item No.
Bell & Gossett Impellers for Circulating Pumps				
118439LF	102228LF	Brass	4.25 in	**3CFC2**
118440LF	102220, 102224LF	Brass	3.78 in	**3CFC3**
118612LF	102208	Brass	4.25 in	**3CFC4**
118626LF	105100LF	Brass	5.25 in	**3CFC5**
118629	105097	Steel	5.25 in	**3CFC6**
118630	105089	Steel	4.75 in	**3CFC7**
118668	102308	Steel	3.38 in	**3CFC8**
118675	102226	Steel	4.25 in	**3CFC9**
189128LF	102214, 102217, 102218	Plastic	3.38 in	**3CFD3**
189132LF	106189, 106197LF	Plastic	2.75 in	**3CFD7**

Mfr. Model	Compatible with Manufacturer Model Number	Item No.
Bell & Gossett Motor Couplers for Circulating Pumps		
118473	105089, 105097, 604S, 608S, 608T, 611T, 613S, B604S, B611S	**4RD26**
118705	102206, 102210, 102214, 106189, 2" BNFI, HV BNFI, PR AB, SERIES 100 BNFI	**4RD81**
118709	105089, 105097, 501203	**4YM24**
118723	102218, 102222, 102226, 2½" AB, HD3 AB, LD3 AB	**4RD27**
185330	623S, 624T	**5YN78**
186410	105121, 613S, 617T, 623S	**4RD77**
Taco Motor Cartridges for Circulating Pumps		
005-020RP	005-SF2, 006-B4, 006-B4-4, 006-BC4, 006-BC5Y-10, 006-BC7-IFC, 006-ST4-4, 006-ST5Y-1	**4AYV8**
007-045RP	007-BF5-3, 007-BF5-3IFC, 007-SF5, 007-SF5-IFC	**4AYV9**
007-042RP	007-F5, 007-F5-7IFC	**4AYW1**
009-022RP	009-BF5-2IFC, 009-BF5-3, 009-SF5, 009-SF5-IFC	**4AYW4**
0010-022RP	0010-BF3-2IFC, 0010-SF3-IFC	**4AYW7**
0012-012RP	0012-BF4-3, 0012-SF4	**4AYW9**
Bell & Gossett Motor Mounts for Circulating Pumps		
118223	102033, 102034, 102036, 102206, 102207, 102208, 102210, 102213, 102214, 102217, 102230, 102231, 102232, 102233, 102308, 102309, 102311, 106189, 106190, 106192, 106197	**4RD24**
118228	102218, 102219, 102220, 102222, 102223, 102224, 102226, 102227, 102228	**4RD25**

Mfr. Model	Container Capacity	Item No.
Bell & Gossett Lubricants for Circulating Pumps		
118153	1.5 oz	**4YM22**
118154	2.5 oz	**4YM23**

Intake & Discharge Definitions for Condensate Removable Pumps

INTAKE CONNECTION STYLE

The connection style of the intake port where the condensate enters the pump.

Open—Has an open port into the tank where tubing can be inserted, but no additional seal or gripping mechanism holds the tubing.

Barbed—Is a port with raised ridges, or barbs, that grips the tubing and holds it in place.

Screened Submersible—For in-pan pumps that are submersed in a pan that collects condensate through a screened area in the bottom of the pump. The screen prevents debris from entering the pump.

DISCHARGE CONNECTION STYLE

The connection style of the discharge port where the fluid exits the pump.

Barbed—A port with raised ridges, or barbs, that grips the tubing and holds it in place.

MNPT—US standard for Male National Pipe Taper threads that identifies the connection as a tapered external thread that forms a seal when tightened.

FNPT—US standard for Female National Pipe Taper threads that identifies the connection as a tapered internal thread that forms a seal when tightened.

Condensate Removal Pumps

Pumps evacuate liquid formed by condensation from the heating or cooling system when gravity drainage is not possible. Furnaces, air conditioners, and boilers are often installed in a location lower than the drainage system, such as a basement. The pump performance is based on the amount of liquid, in gallons per minute (gpm), that the pump can lift in vertical feet from the liquid sitting in the tank (feet of head).

Standard pumps have a built-in tank to collect the condensate. The pump's tank capacity varies in the amount of condensate (gallons) the tank can hold.

Plenum-rated pumps meet building codes that require all cables installed in an air-filled space, or plenum, to have fire and smoke inhibiting qualities. Plenum-rated cable has an outer jacket that prevents the spread of flame and limits the release of harmful smoke. They are required in buildings such as hospitals, offices, and schools that use the ceiling cavity to supply, return, and exhaust air from the occupied area.

In-pan pumps are designed to sit in a drainage pan and pump out collected condensate. They do not have a built-in tank. These pumps are partially submersible and have a mechanical float switch that starts and stops the pump depending on the condensate level in the pan.

Mini-split pumps are designed to collect condensate generated by wall-mounted air conditioners. These compact pumps have a small reservoir and tubing that fit inside the air conditioner housing. A mechanical float switch triggers the pump to activate and empty the reservoir outside of the building.

Check valves automatically close so that the flow of condensate can only go one way, preventing backflow into the pump's tank. They mount to the discharge outlet of a condensate removal pump and connect to a drainage tube.

In-line & In-pan switches protect condensate systems from overflow by shutting down the equipment when a blockage is detected. They are installed in-line at the drain pan outlet. These switches can be used in combination with a condensate removal pump, or independently. 3XY17 has 6-ft. leads and 18 AWG wire. 4NY29 has 6-ft. leads and 24 AWG wire.

Standard
2P350

Plenum Rated
48PX18

In-Pan
2GZG4

Min-Split
787YX6

Check Valve
4RL38

In-Line Switch
4NY29

Horsepower	Nameplate Voltage	Amps	Maximum Flow Rate @ 10 Feet of Head	Maximum Flow Rate @ 15 Feet of Head	Maximum Flow Rate @ 20 Feet of Head	Maximum Feet of Head	Intake Connection	Discharge Connection	Overall Height	Overall Width	Overall Length	Brand	Mfr. Model	Item No.
Standard Condensate Removal Pumps														
½ gal Tank Capacity														
1/50 hp	115V AC	1 A	0.4 gpm	0 gpm	—	15 ft	1 ⅛ in Open	⅜ in Barbed	7"	5"	11"	Little Giant	554914	**2P350**
1/30 hp	115V AC	1.5 A	0.9 gpm	0.5 gpm	0 gpm	21 ft	1 ⅛ in Open	⅜ in Barbed	6.5"	4.8"	10.2"	Little Giant	554550	**3EUD7**
1/30 hp	115V AC	1.5 A	1 gpm	0.7 gpm	0.2 gpm	21 ft	1 ⅛ in Open	⅜ in Barbed	6.5"	4.8"	10.2"	Little Giant	554530	**3EUD4**
1/30 hp	115V AC	1.5 A	1 gpm	0.7 gpm	0.2 gpm	21 ft	1 ⅛ in Open	⅜ in Barbed	6.8"	5.1"	10.3"	Little Giant	554542	**3EUD6**
1/30 hp	230V AC	0.5 A	0.8 gpm	0.4 gpm	—	17 ft	1 ⅛ in Open	⅜ in Barbed	7"	5"	11"	Little Giant	554445	**4RL07**
1/30 hp	230V AC	0.6 A	0.9 gpm	0.5 gpm	—	19 ft	1 ⅛ in Open	⅜ in Barbed	6.5"	4.8"	10.2"	Little Giant	554531	**3EUD5**
⅓ hp	115V AC	1.5 A	0.8 gpm	0.4 gpm	0 gpm	20 ft	1 ⅛ in Open	⅜ in Barbed	7"	5"	11"	Little Giant	554425	**2P351**
1 gal Tank Capacity														
1/50 hp	115V AC	1 A	2.1 gpm	2.1 gpm	—	14 ft	1 ⅛ in Open	⅜ in Barbed	9.46"	6"	12.1"	Little Giant	553101	**3P731**
1/18 hp	115V AC	2.5 A	3.3 gpm	2.5 gpm	1.7 gpm	24 ft	1 ⅛ in Open	⅜ in Barbed	10.4"	6"	12.11"	Little Giant	553201	**3P732**
1/18 hp	230V AC	1.2 A	3.5 gpm	2.9 gpm	1.7 gpm	24 ft	1 ⅛ in Open	⅜ in Barbed	10.4"	6"	12.11"	Little Giant	553211	**4RL05**
⅕ hp	230V AC	0.8 A	6.9 gpm	6.3 gpm	—	45 ft	1 ⅛ in Open	⅜ in Barbed	10.5"	6"	12"	Little Giant	553240	**2P096**
⅕ hp	230V AC	1 A	6.9 gpm	6.3 gpm	5.5 gpm	45 ft	1 ⅛ in Open	⅜ in Barbed	10.85"	6"	12.11"	Little Giant	553245	**4RL06**
Plenum Rated Condensate Removal Pumps														
¼ gal Tank Capacity														
1/30 hp	115V AC	1.4 A	0.7 gpm	0.4 gpm	—	18 ft	1 ¾ in Barbed	⅜ in Barbed	4.75"	5.5"	10"	Hartell	KL-1DG-115	**48PX21**
1/30 hp	230V AC	0.55 A	0.7 gpm	0.4 gpm	—	18 ft	1 ¾ in Barbed	⅜ in Barbed	4.75"	5.5"	10"	Hartell	KL-1DG-230	**48PX22**
1/30 hp	277V AC	0.53 A	0.7 gpm	0.4 gpm	—	18 ft	1 ¾ in Barbed	⅜ in Barbed	4.75"	5.5"	10"	Hartell	KL-1DG-277	**48PX23**
1 gal Tank Capacity														
⅒ hp	115/230V AC	1.7/3.5 A	2.7 gpm	1.9 gpm	0 gpm	20 ft	1 ¼ in Open	⅜ in FNPT	10"	6"	9"	Hartell	A2X-1965	**48PX14**
⅒ hp	115V AC	3.1 A	5.4 gpm	4.7 gpm	3.8 gpm	30 ft	¾ in Barbed	⅜ in Barbed	10.5"	6"	12"	Hartell	A3X-115	**48PX15**
½ hp	115V AC	6 A	8.9 gpm	8.5 gpm	8.1 gpm	60 ft	¾ in Barbed	½ in Barbed	10.5"	6"	12"	Hartell	A5X-115	**48PX18**
½ hp	208-230V AC	1.1 A	5.4 gpm	4.7 gpm	3.8 gpm	30 ft	¾ in Barbed	½ in Barbed	10.5"	6"	12"	Hartell	A3X-230	**48PX16**
½ hp	208-230V AC	3.3 A	8.9 gpm	8.5 gpm	8.1 gpm	60 ft	¾ in Barbed	½ in Barbed	10.5"	6"	12"	Hartell	A5X-230	**48PX19**
½ hp	277V AC	1 A	5.4 gpm	4.7 gpm	3.8 gpm	30 ft	¾ in Barbed	½ in Barbed	10.5"	6"	12"	Hartell	A3X-277	**48PX17**
½ hp	380/460V AC	1.1 A	8.9 gpm	8.5 gpm	8.1 gpm	60 ft	¾ in Barbed	½ in Barbed	10.5"	6"	12"	Hartell	A5X-460	**48PX20**
In-Pan Condensate Removal Pumps														
0 gal Tank Capacity														
1/150 hp	115V AC	1.1 A	0 gpm	0 gpm	—	10 ft	Screened Submersible	¼ in MNPT	4.31"	3.75"	7.44"	Little Giant	550521	**2GZG4**
1/150 hp	230V AC	0.6 A	0 gpm	—	—	10 ft	Screened Submersible	¼ in Barbed	4.38"	6.13"	3.38"	Little Giant	550532	**61DT03**
1 gal Tank Capacity														
1/12 hp	115V AC	3.5 A	4.2 gpm	3.3 gpm	1.9 gpm	26 ft	Screened Submersible	½ in MNPT	6.5"	6"	12.03"	Little Giant	551320	**2GZG2**
Mini-Split Condensate Removal Pumps														
Tank Capacity														
—	100/230V AC	0.014 A	2.4 gph	2.1 gph	0 gph	20 ft	¼ in Barbed	¼ in Barbed	2.52"	10.43"	6.88"	Hartell	HAR-8	**787YX6**
—	100/230V AC	0.014 A	4.2 gph	3.7 gph	0 gph	20 ft	¼ in Barbed	¼ in Barbed	2.52"	10.43"	6.88"	Hartell	HAR-15	**787YX7**
1/100 gal Tank Capacity														
1/50 hp	110/240V AC	0.18 A	1.5 gph	1.1 gph	1.1 gph	33 ft	$\frac{3}{16}$ in Open	¼ in Barbed	2.4"	1.8"	4.1"	Little Giant	553507	**787VM0**

Mfr. Model	Compatible with Series	Compatible Inside Diameter (ID)	Compatible Outside Diameter (OD)	Connec. Type	Compatible with Brand	Body Material	Brand	Item No.
Check Valves for Condensate Removal Pumps								
599061	1-ABS	¼ in	¼ in	MNPT	Little Giant	Nylon	Little Giant	**4RL37**
599064	VCL-45ULS	⅜ in	⅜ in	Compression	Little Giant	Brass	Little Giant	**4RL38**
599069	VCC, VCL 14/24, VCMA	¼ in	⅜ in	MNPT	Little Giant	Nylon	Little Giant	**4RL39**

Mfr. Model	Compatible with Series	Compatible with Alarm Type	Brand	Item No.
In-line Switches for Condensate				
599125	ACS-4	Audio, Visual	Little Giant	**4NY29**
In-Pan Switches for Condensate				
599930	ACS-3	Audio, Visual	Little Giant	**3XY17**

Condensate Return Systems

Hoffman

- Max. liquid temp.: 200°F
- Motor enclosure: Open drip-proof (ODP)

Condensate return systems collect condensation generated in a large boiler loop system and pump the condensation back to the boiler. They are used when gravity-fed return is not an option. These systems have a built-in collection tank fitted with a mechanical float switch. The switch triggers when condensation levels rise, which activates the pump to pump the condensate back to the boiler. **Duplex** systems have two pumps. Pumping alternates between the two pumps to reduce wear on both of them. They are used for systems with higher condensate return demand.

Simplex systems have one circulating pump.

Simplex
4RD31

Horsepower	Phase	Voltage	Equivalence of Direct Radiation Rating	Maximum Flow Rate @ 30 Feet of Head	Maximum Flow Rate @ 50 Feet of Head	Maximum Flow Rate @ 70 Feet of Head	Maximum Feet of Head	Tank Cap.	Intake Connection	Discharge Connection	Tank Material	Series	Mfr. Model	Item No.
Duplex														
⅓ hp	Single	115/230	12,000	33 gpm	12 gpm	—	52 ft	14 gal	2 in NPT	¾ in NPT	Cast Iron	WCD12-20 B-MA	160032	**4RD33**
⅓ hp	Single	115/230	12,000	33 gpm	12 gpm	—	52 ft	14 gal	2 in NPT	¾ in NPT	Welded Steel	WCSD12-20 B-MA	160013	**4RD30**
¾ hp	Single	115/230	15,000	—	—	—	75 ft	14 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC1	160018	**5DPZ1**
¾ hp	Three	208-230/460	15,000	—	—	—	75 ft	14 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC2A	160033	**5DPZ2**
¾ hp	Three	230	22,000	—	—	—	75 ft	23 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC3B	160034	**5DPZ3**
1 ½ hp	Three	208-230/460	45,000	—	—	35 gpm	75 ft	36 gal	3 in NPT	1 ½ in NPT	Cast Iron	SCC4A	160035	**5DPZ4**
Simplex														
⅓ hp	Single	115/230	8,000	33 gpm	12 gpm	—	52 ft	9 gal	2 in NPT	¾ in NPT	Cast Iron	WC8-20B	160030	**4RD31**
⅓ hp	Single	115/230	12,000	33 gpm	12 gpm	—	52 ft	14 gal	2 in NPT	¾ in NPT	Cast Iron	WC12-20B	160031	**4RD32**
⅓ hp	Single	115/230	12,000	33 gpm	12 gpm	—	52 ft	14 gal	2 in NPT	¾ in NPT	Welded Steel	WCS12-20B	160012	**4RD29**

Boiler Feed Systems

Hoffman

- Single phase

Pumps store and monitor the amount of condensate returning to the boiler to ensure it does not exceed the boiler's capacity. They mount directly to the boiler in either a vertical or horizontal orientation to accommodate various spacing requirements. Welded steel tank, single phase.

Simplex systems have one circulating pump.
Duplex systems have two pumps. Pumping alternates between the two pumps to reduce wear on both of them. They are used for systems with higher condensate return demand.

Duplex
5DPY9

Horsepower	Voltage	Equivalence of Direct Radiation Rating	Maximum Flow Rate @ 30 Feet of Head	Maximum Flow Rate @ 40 Feet of Head	Maximum Flow Rate @ 50 Feet of Head	Maximum Feet of Head	Tank Cap.	Intake Connection	Discharge Connection	Tank Orientation	Series	Mfr. Model	Item No.
Simplex													
⅓ hp	115/230	7,000	33 gpm	30 gpm	12 gpm	46 ft	50 gal	2 in NPT	¾ in NPT	Vertical	50VBFS-B	161001	**4RD34**
Duplex													
⅓ hp	115/208-230	15,000	33 gpm	30 gpm	12 gpm	46 ft	50 gal	2 ½ in NPT	¾ in NPT	Horizontal	50HBFD-1520	161052	**5DPY9**
⅓ hp	115/208-230	15,000	33 gpm	30 gpm	12 gpm	46 ft	110 gal	3 in NPT	1 ½ in NPT	Horizontal	100HBFD-1520	161054	**5DPZ0**

Replacement Pump for Condensate Return & Boiler Feed System

Hoffman

These pumps replace a worn or damaged pump in either one-pump (simplex) or two-pump (duplex) condensate return systems or boiler feed units. Pumps transfer condensate in a collection tank back to the boiler and are typically mounted vertically at the base of the tank. Replacement pumps should match the brand, series, and manufacturer model number of the condensate return system or the boiler feed unit.

Mfr. Model	Compatible with Manufacturer Model Number	Nameplate Voltage	Item No.
609PF	160010, 160011, 160012, 160013, 160030: 160031, 160032, 160036	115V AC; 230V AC	**4RD67**

Hoffman

Seal Kits for Condensate Return & Boiler Feed Systems

Replacement gaskets and seals should match the brand, series, and manufacturer model number of the condensate return system or the boiler feed unit.

Float switch is a mechanical device installed inside a condensate or boiler feed collection tank. It floats upon the rising condensate as the container fills. Once the float reaches a preset level, it triggers the switch to start the pump and evacuate the tank.

Gaskets and **Seal Kits** keep the pump motor and assembly dry by preventing water from exiting the pump body. These items wear over time and need to be replaced.

6JHF9

6HKZ3

Mfr. Model	Compatible with Manufacturer Model Number	Item No.
Float Switch		
DA0393	WC12-20B, WC8-20B, WCS12-20B	**6JHF9**
Gasket		
DG0060	160012, 160013, 160018, 160030, 160031, 160032, 160033, 160034, 160035, 161001, 161052, 161054, 609PF	**6HKZ5**
DG0092	609PF	**6HKZ7**
Seal Kit		
180013	160030, 160032, 609PF	**6HKZ3**
180014	616, 617, 625, 626, 650	**6HKZ8**

WATTS REGULATOR

Thermal Expansion Tanks and Accessories

- Connection size/type: ¾", MIP

Steel tank. For use in residential water heater tank installation.

Expansion Tank
419X92

Vent Valve
4A821

Features	L (in.)	W (in.)	Dia. (in.)	Includes	Mfr. Model	Item No.
Thermal Expansion Tank						
2 gal Capacity, 304 Stainless Steel System Connection, 6 yr Warranty, Butyl Rubber Diaphragm	8 in	8 in	8 in	Factory pre-charged at 40 PSI	60022	**419X92**
304 Stainless Steel System Connection, 4.5 gal Capacity, 6 yr Warranty, Butyl Rubber Diaphragm	11 in	11 in	11 in	Factory pre-charged at 40 PSI	60023	**419X93**

Item	Inlet	Material of Construc.	Brand	Mfr. Model	Item No.
Tank Accessories					
Automatic Dual Air Vent Valve	⅛" MNPT	Brass	Watts	⅛ DUO-VENT NPT	**3EJF7**
Enhanced Air Separator	1 in NPT	Cast Iron	Watts	1 AS-M1 T	**3EJG5**
	1¼ in NPT	Cast Iron	Watts	11/4 AS-M1 T	**3EJG6**
Automatic Vent Valve	⅛" MNPT	Brass	Watts	FV-4-1/8	**4A820**
	¼" MNPT	Brass	Watts	FV-4-1/4	**4A821**

Diaphragm Pumps—Housing Materials

Aluminum—Lightweight and can transfer paints, petroleum products, and oils.

Cast-Iron—For heavy-duty industrial applications and abrasive products.

Groundable Acetal—For use in solvent transfer. Metallic fibers in the resin renders the material conductive to eliminate static charge buildup.

Kynar—High-performance fluoropolymer resin has good chemical resistance at higher temperatures.

Polypropylene—Resists many caustics and a wide variety of nonaggressive water-based liquids.

PVDF (Polyvinylidene Fluoride)—Low thermal conductivity and highly resistant to acids, bases, and solvents.

Stainless Steel—High corrosion and chemical resistance and ideal for use with acids, caustics, and solvents.

Dayton Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 10 ft. dry
- Run-dry capability

Portable, intrinsically safe models resist overheating and are suitable for acids, caustics, and solvents, to high-viscosity shear sensitive liquids including paints, inks, and adhesives.

3HJV9

6PY34

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing												
¼"	NPT	¼ in FNPT	3.25	180 °F	PTFE	PTFE	Acetal	Clear-Liquid	Single	**6PY38**	**6PY61**	**6PY77**
Kynar Housing												
¼"	NPT	¼ in FNPT	3.25	212 °F	PTFE	PTFE	Kynar(R)	Clear-Liquid	Single	**3HJV7**	**6PY61**	**6PY77**
½"	NPT	¼ in FNPT	15	212 °F	PTFE	PTFE	Kynar(R)	1⁄32"	Single	**3HJV8**	**6PY62**	**6PY78**
1"	NPT	⅜ in FNPT	35	212 °F	PTFE	PTFE	Kynar(R)	3⁄16"	Single	**3HJV9**	**6PY64**	**22A610**
	NPT	⅜ in FNPT	49	212 °F	Santoprene(R)	EPDM	Kynar(R)	3⁄16"	Single	**3HJW2**	**6PY60**	**22A610**
Polypropylene Housing												
¼"	NPT	¼ in FNPT	3.25	180 °F	PTFE	PTFE	Polypropylene	Clear-Liquid	Single	**6PY37**	**6PY61**	**6PY77**
½"	NPT	¼ in FNPT	15	180 °F	PTFE	PTFE	Polypropylene	1⁄32"	Single	**6PY39**	**6PY62**	**6PY78**
	NPT	¼ in FNPT	15	180 °F	Santoprene(R)	PTFE	Polypropylene	1⁄32"	Single	**6PY34**	**6PY58**	**6PY78**
¾"	NPT	¼ in FNPT	21	180 °F	PTFE	PTFE	Polypropylene	1⁄16"	Single	**6PY40**	**6PY63**	**22A610**
	NPT	¼ in FNPT	28	180 °F	Santoprene(R)	EPDM	Polypropylene	1⁄16"	Single	**6PY35**	**6PY59**	**22A610**
1"	NPT	⅜ in FNPT	35	180 °F	PTFE	PTFE	Polypropylene	3⁄16"	Single	**6PY41**	**6PY64**	**22A610**
	NPT	⅜ in FNPT	49	180 °F	Santoprene(R)	EPDM	Polypropylene	3⁄16"	Single	**6PY36**	**6PY60**	**22A610**
1½"	Flange	½ in FNPT	115	180 °F	Santoprene(R)	EPDM	Polypropylene	9⁄32"	Single	**3HJW5**	**22A613**	**6PY80**
	Flange	½ in FNPT	120	180 °F	PTFE	PTFE	Polypropylene	9⁄32"	Single	**3HJW3**	**22A612**	**6PY80**
2"	Flange	¾ in FNPT	160	180 °F	Santoprene(R)	EPDM	Polypropylene	5⁄16"	Single	**3HJW6**	**22A616**	**6PY80**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

ARO Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 10 ft. dry
- Run-dry capability

Easy-to-transport pumps are air operated to reduce exhaust and spark hazards. Suitable for pumping thick, solids-laden liquids and slurries in applications such as mining and dewatering.

5XA64

19RU82

5U668

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing													
⅜ in	NPT	¼ in FNPT	10.6	180 °F	Hytrel	Hytrel	Acetal	1⁄16 in	Multiport	PD03P-AES-DCC	**2CAU5**	**33RM97**	**5XB26**
	NPT	¼ in FNPT	10.6	180 °F	Hytrel	Hytrel	Acetal	1⁄16 in	Single	PD03P-ADS-DCC	**2CAU4**	**33RM97**	**5XB26**
	NPT	¼ in FNPT	10.6	180 °F	PTFE	PTFE	Acetal	1⁄16 in	Multiport	PD03P-AES-DTT	**2CAU3**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	180 °F	PTFE	PTFE	Acetal	1⁄16 in	Single	PD03P-ADS-DTT	**2CAU2**	**5XB20**	**5XB26**
½ in	NPT	¼ in FNPT	14	180 °F	PTFE	PTFE	Acetal	3⁄32 in	Multiport	PD05P-AES-DTT-B	**5XA68**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	14	180 °F	Santoprene	Santroprene	Acetal	3⁄32 in	Multiport	PD05P-AES-DAA-B	**5XA69**	**5XB23**	**5XB26**
Aluminum Housing													
1 ½ in	NPT	½ in FNPT	80	180 °F	Nitrile	Nitrile	Aluminum	½ in	Single	66M150-122-C	**3FPX9**	**3FPZ5**	**—**
	NPT	½ in FNPT	80	225 °F	Santoprene	Santroprene	Aluminum	½ in	Single	66M150-1EB-C	**3FPY1**	**—**	**2TV35**
2 in	NPT	¾ in FNPT	156	180 °F	Nitrile	Nitrile	Aluminum	¾ in	Single	66M250-122-C	**3FPY2**	**3FPZ2**	**4CWJ3**
	NPT	¾ in FNPT	156	225 °F	Santoprene	Santroprene	Aluminum	¾ in	Single	66M250-1EB-C	**3FPY6**	**3FPZ1**	**4CWJ3**
3 in	NPT	¾ in FNPT	217	180 °F	Nitrile	Nitrile	Aluminum	1 in	Single	66M300-122-C	**3FPY4**	**3FPY8**	**4CWJ3**
	NPT	¾ in FNPT	217	225 °F	Santoprene	Santroprene	Aluminum	1 in	Single	66M300-1EB-C	**3FPY5**	**3FPZ1**	**4CWJ3**
Kynar Housing													
⅜ in	NPT	¼ in FNPT	10.6	200 °F	PTFE	PTFE	Kynar	1⁄16 in	Multiport	PD03P-ALS-KTT	**2CAU7**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	200 °F	PTFE	PTFE	Kynar	1⁄16 in	Single	PD03P-AKS-KTT	**2CAU6**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	200 °F	Santoprene	Santroprene	Kynar	1⁄16 in	Multiport	PD03P-ALS-KAA	**2CAU9**	**5XB21**	**5XB26**
½ in	NPT	¼ in FNPT	14	200 °F	PTFE	PTFE	Kynar	3⁄32 in	Multiport	PD05P-ALS-KTT-B	**5XA64**	**5XB24**	**5XB26**
Polypropylene Housing													
¼ in	NPT	¼ in FNPT	5.3	225 °F	PTFE	PTFE	Acetal	1⁄16 in	Single	PD01E-HDS-DTT-A	**19RU84**	**—**	**—**
	NPT	¼ in FNPT	5.3	225 °F	PTFE	PTFE	Kynar	1⁄16 in	Single	PD01P-HKS-KTT-A	**19RU85**	**—**	**—**
	NPT	¼ in FNPT	5.3	225 °F	PTFE	PTFE	Polypropylene	1⁄16 in	Single	PD01P-HPS-PTT-A	**19RU81**	**—**	**—**
	NPT/BSP	¼ in FNPT	5.3	225 °F	Santoprene	Santroprene	Polypropylene	1⁄16 in	Single	PD01P-HPS-PAA-A	**19RU82**	**—**	**—**
⅜ in	NPT	¼ in FNPT	10.6	150 °F	PTFE	PTFE	Polypropylene	1⁄16 in	Single	PD03P-APS-PTT	**5XA66**	**5XB20**	**5XB26**
	NPT	¼ in FNPT	10.6	150 °F	Santoprene	Santroprene	Polypropylene	1⁄16 in	Multiport	PD03P-ARS-PAA	**2CAU1**	**5XB21**	**5XB26**
	NPT	¼ in FNPT	10.6	150 °F	Santoprene	Santroprene	Polypropylene	1⁄16 in	Single	PD03P-APS-PAA	**5XA65**	**5XB21**	**5XB26**
½ in	NPT	¼ in FNPT	13	150 °F	PTFE	PTFE	Polypropylene	3⁄32 in	Multiport	66605J-344	**2CAP5**	**4RM99**	**4RN03**
	NPT	¼ in FNPT	13	150 °F	PTFE	PTFE	Polypropylene	3⁄32 in	Single	666053-344	**2CAP6**	**4RM99**	**4RN03**
	NPT	¼ in FNPT	13	150 °F	Santoprene	Santroprene	Polypropylene	3⁄32 in	Multiport	66605J-3EB	**5U669**	**4RN02**	**4RN03**
	NPT	¼ in FNPT	13	150 °F	Santoprene	Santroprene	Polypropylene	3⁄32 in	Single	666053-3EB	**5U663**	**4RN02**	**4RN03**
	NPT	¼ in FNPT	13	150 °F	Urethane	Polyurethane	Polypropylene	3⁄32 in	Multiport	66605J-388	**5U668**	**4RN01**	**4RN03**
	NPT	¼ in FNPT	13	150 °F	Urethane	Urethane	Polypropylene	3⁄32 in	Single	666053-388	**2CAP4**	**4RN01**	**4RN03**
	NPT	¼ in FNPT	14	150 °F	Nitrile	Nitrile	Polypropylene	3⁄32 in	Multiport	PD05P-ARS-PGG-B	**5XA63**	**6WU23**	**5XB26**
	NPT	¼ in FNPT	14	150 °F	Polyurethane	Polyurethane	Polypropylene	3⁄32 in	Multiport	PD05P-ARS-PUU-B	**5XA57**	**5XB22**	**5XB26**
	NPT	¼ in FNPT	14	150 °F	PTFE	PTFE	Polypropylene	3⁄32 in	Multiport	PD05P-ARS-PTT-B	**5XA59**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	14	150 °F	Santoprene	Santroprene	Polypropylene	3⁄32 in	Multiport	PD05P-ARS-PAA-B	**5XA58**	**5XB23**	**5XB26**
¾ in	NPT	¼ in FNPT	15	150 °F	PTFE	PTFE	Polypropylene	⅛ in	Single	PD07P-APS-PTT	**2UV60**	**5XB24**	**5XB26**
	NPT	¼ in FNPT	15	150 °F	Santoprene	Santroprene	Polypropylene	⅛ in	Single	PD07P-APS-PAA	**2UV59**	**5XB23**	**5XB26**
1 in	Flange	¼ in FNPT	47	150 °F	PTFE	PTFE	Polypropylene	⅛ in	Flanged	6661A3-344-C	**2P774**	**4RN04**	**4RM92**
	Flange	¼ in FNPT	47	150 °F	Santoprene	PTFE	Polypropylene	⅛ in	Flanged	6661A3-34B-C	**5U667**	**33RM98**	**4RM92**
1 ½ in	Flange	½ in FNPT	100	150 °F	Neoprene	Neoprene	Polypropylene	¼ in	Flanged	6661U3-311-C	**5U675**	**26JX73**	**4RM92**
	Flange	½ in FNPT	100	150 °F	PTFE	PTFE	Polypropylene	¼ in	Flanged	6661U3-344-C	**5U674**	**4RN07**	**4RM92**
1 in	NPT	¼ in FNPT	47	150 °F	Nitrile	Nitrile	Polypropylene	⅛ in	Single	6661AJ-322-C	**4GY44**	**4GY43**	**4RM92**
	NPT	¼ in FNPT	47	150 °F	PTFE	PTFE	Polypropylene	⅛ in	Single	6661AJ-344-C	**4GY45**	**4RN04**	**4RM92**
	NPT	¼ in FNPT	47	150 °F	Santoprene	Santroprene	Polypropylene	⅛ in	Single	6661AJ-3EB-C	**4GY48**	**4RN05**	**4RM92**
2 in	Flange	½ in FNPT	139	150 °F	Neoprene	Neoprene	Polypropylene	¼ in	Flanged	6662B3-311-C	**5U680**	**26JX73**	**4RM92**
	Flange	½ in FNPT	139	150 °F	PTFE	PTFE	Polypropylene	¼ in	Flanged	6662B3-344-C	**5U679**	**4RN07**	**4RM92**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1.*

For an explanation of diaphragm pump housing materials, see page 2663.

29AU51

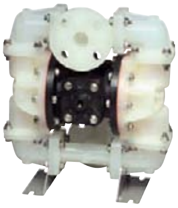
Sandpiper Nonmetallic Air-Operated Double Diaphragm Pumps

- Self-priming to 15 ft. wet, 20 ft. dry
- Run-dry capability

Ideal for pumping solvents, slurries, and high-viscosity liquids such as paints and inks. Feature all-bolted construction and abrasion- and corrosion-resistant materials.

Free-standing support base is useful in portable applications.

12W417



29AU55

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Acetal Housing													
½ in	NPT	¼ in FNPT	14 gpm	220 °F	PTFE - Santoprene Backup	PTFE	—	⅛ in	Single	S05B2G2TXNS000.	**29AU51**	**39L602**	—
	NPT	¼ in FNPT	14 gpm	275 °F	Santoprene	Santoprene	—	⅛ in	Single	S05B2G1TXNS000.	**29AU50**	**39L599**	—
Polypropylene Housing													
½ in	NPT	¼ in FNPT	14 gpm	190 °F	Buna	Buna	PTFE	⅛ in	Multiport	S05B2PBTPNI000.	**12W415**	**39L601**	**39L605**
	NPT	¼ in FNPT	14 gpm	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	⅛ in	Multiport	S05B2P2TPNI000.	**12W416**	**39L602**	**39L605**
	NPT	¼ in FNPT	14 gpm	220 °F	Santoprene	Santoprene	PTFE	⅛ in	Multiport	S05B2P1TPNI000.	**12W414**	**39L599**	**39L605**
¾ in	NPT	¼ in FNPT	23 gpm	180 °F	PTFE - Santoprene Backup	PTFE	Polypropylene	3/20 in	Single	S07B1P2PPNS000.	**12W418**	**39L604**	**39L605**
	NPT	¼ in FNPT	23 gpm	180 °F	Santoprene	Santoprene	Polypropylene	3/20 in	Single	S07B1P1PPNS000.	**12W417**	**39L603**	**39L605**
1 ½ in	Flange	¾ in FNPT	100 gpm	180 °F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼ in	Single	S15B3P2PPUS000.	**15U532**	**39L618**	**39L621**
	Flange	¾ in FNPT	100 gpm	180 °F	Santoprene	Santoprene	Polypropylene	¼ in	Single	S15B3P1PPUS000.	**15U531**	**39L617**	**39L621**
1 in	NPT	½ in FNPT	53 gpm	180 °F	Buna	Buna	Polypropylene	¼ in	Multiport	S1FB3PBPPNI000.	**12W420**	—	**39L609**
	NPT	½ in FNPT	53 gpm	180 °F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼ in	Multiport	S1FB3P2PPNI000.	**12W421**	**39L608**	**39L609**
	NPT	½ in FNPT	53 gpm	180 °F	Santoprene	Santoprene	Polypropylene	¼ in	Multiport	S1FB3P1PPNI000.	**12W419**	**39L606**	**39L609**
2 in	Flange	¾ in FNPT	150 gpm	180 °F	PTFE - Santoprene Backup	PTFE	Polypropylene	¼ in	Single	S20B3P2PPUS000.	**15U534**	**39L620**	**39L621**
	Flange	¾ in FNPT	150 gpm	180 °F	Santoprene	Santoprene	Polypropylene	¼ in	Single	S20B3P1PPUS000.	**15U533**	**39L619**	**39L621**
PVDF Housing													
½ in	NPT	¼ in FNPT	14 gpm	220 °F	PTFE - Santoprene Backup	PTFE	—	⅛ in	Multiport	S05B2K2TPNS000.	**29AU49**	**39L602**	**39L605**
	NPT	¼ in FNPT	14 gpm	220 °F	Santoprene	Santoprene	—	⅛ in	Multiport	S05B2K1TPNS000.	**29AU48**	**39L599**	**39L605**
¾ in	NPT	½ in FNPT	23 gpm	220 °F	PTFE - Santoprene Backup	PTFE	PVDF	¼ in	Single	S07B1K2KPNS000.	**29AU53**	**39L604**	**39L605**
	NPT	½ in FNPT	23 gpm	250 °F	Santoprene	Santoprene	PVDF	¼ in	Single	S07B1K1KPNS000.	**29AU52**	**39L603**	**39L605**
1 in	Flange	¼ in FNPT	23 gpm	220 °F	PTFE - Santoprene Backup	PTFE	PVDF	3/20 in	Single	S10B1K2KPAS000.	**29AU55**	**39L604**	**39L605**
	Flange	¼ in FNPT	23 gpm	250 °F	Santoprene	Santoprene	PVDF	3/20 in	Single	S10B1K1KPAS000.	**29AU54**	**39L603**	**39L605**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

4GGF9

Versa-Matic Air-Operated Double Diaphragm Pumps

Standard-duty band clamp construction eases maintenance. Interchangeable with Wilden Original Series pumps. Self-priming and feature the Elima-Matic Air Valve System for no stalling, lube-free performance.

20LR22

4GGF5

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½ in	NPT	⅜ in FNPT	12 gpm	180 °F	Buna N	Buna N	Buna-N	1/16 in	Single	E5AP2R229C	**20LR16**	**30YF23**	**22A481**
	NPT	⅜ in FNPT	12 gpm	220 °F	PTFE	PTFE	—	1/16 in	Single	E5AP5T559C	**20LR18**	**30YF25**	**22A481**
	NPT	⅜ in FNPT	12 gpm	300 °F	Santoprene	Santoprene	Santoprene	1/16 in	Single	E5AP6X669C	**20LR17**	**30YF24**	**22A481**
1 in	NPT	⅜ in FNPT	49 gpm	180 °F	Buna N	Buna N	Buna-N	⅛ in	Single	E1AA2R229C-ATEX	**20LR25**	**30YF29**	**30YF44**
	NPT	⅜ in FNPT	49 gpm	220 °F	PTFE	PTFE	—	⅛ in	Single	E1AA5T559C-ATEX	**20LR27**	**30YF31**	**30YF44**
	NPT	⅜ in FNPT	49 gpm	300 °F	Santoprene	Santoprene	Santoprene	⅛ in	Single	E1AA6X669C-ATEX	**20LR26**	**30YF30**	**30YF44**
1 ¼ in	NPT	½ in FNPT	70 gpm	180 °F	Buna N	Buna N	Buna-N	3/16 in	Single	E4AA2R220-ATEX	**4GGG3**	**33TC29**	**22A483**
	NPT	½ in FNPT	70 gpm	220 °F	PTFE	PTFE	Aluminum	3/16 in	Single	E4AA5T5A0-ATEX	**4GGG4**	**33TC30**	**22A483**
	NPT	½ in FNPT	70 gpm	300 °F	Santoprene	Santoprene	Santoprene	3/16 in	Single	E4AA6X660-ATEX	**4GGG5**	**33TC28**	**22A483**
2 in	NPT	½ in FNPT	155 gpm	180 °F	Buna N	Buna N	Buna-N	¼ in	Single	E2AA2R220C-ATEX	**4GGF2**	**33TC39**	**22A484**
	NPT	½ in FNPT	155 gpm	220 °F	PTFE	PTFE	Aluminum	¼ in	Single	E2AA5T5A0C-ATEX	**4GGF3**	**33TC31**	**22A484**
	NPT	½ in FNPT	155 gpm	300 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	E2AA6X660C-ATEX	**4GGF4**	**33TC38**	**22A484**
3 in	NPT	½ in FNPT	230 gpm	180 °F	Buna N	Buna N	Buna-N	⅜ in	Single	E3AA2R220C-ATEX	**4GGF7**	**33TC33**	**22A485**
	NPT	½ in FNPT	230 gpm	220 °F	PTFE	PTFE	Aluminum	⅜ in	Single	E3AA5T5A0C-ATEX	**4GGF8**	**33TC34**	**22A485**
	NPT	½ in FNPT	230 gpm	300 °F	Santoprene	Santoprene	Santoprene	⅜ in	Single	E3AA6X660C-ATEX	**4GGF9**	**33TC32**	**22A485**
Polypropylene Housing													
½ in	NPT	⅜ in FNPT	10 gpm	175 °F	PTFE	PTFE	—	1/16 in	Multiport	E5PP5T559D	**20LR24**	**30YF28**	**22A481**
	NPT	⅜ in FNPT	11 gpm	175 °F	Buna N	Buna N	Buna-N	1/16 in	Multiport	E5PP2R259D	**20LR22**	**30YF26**	**22A610**
	NPT	⅜ in FNPT	11 gpm	175 °F	Santoprene	Santoprene	Santoprene	1/16 in	Multiport	E5PP6X659D	**20LR23**	**30YF27**	**22A481**
1 ½ in	Flange	½ in NPT	72 gpm	175 °F	Buna N	Nitrile	Nitrile	3/16 in	Single	E4PA2R229	**20LR34**	**30YF38**	**22A483**
	Flange	½ in FNPT	72 gpm	175 °F	PTFE	PTFE	—	3/16 in	Single	E4PA5F5T9	**20LR36**	**30YF40**	**22A483**
	Flange	½ in FNPT	72 gpm	175 °F	Santoprene	Santoprene	Santoprene	3/16 in	Single	E4PA6X669	**20LR35**	**30YF42**	**22A483**
1 in	NPT	⅜ in FNPT	45 gpm	175 °F	Buna N	Buna N	Buna-N	⅛ in	Single	E1PA2R229C	**20LR31**	**30YF35**	**30YF44**
	NPT	⅜ in FNPT	45 gpm	175 °F	PTFE	PTFE	—	⅛ in	Single	E1PA5T5T9C	**20LR33**	**30YF37**	**30YF44**
	NPT	⅜ in FNPT	45 gpm	175 °F	Santoprene	Santoprene	Santoprene	⅛ in	Single	E1PA6X669C	**20LR32**	**30YF36**	**30YF44**
2 in	Flange	½ in FNPT	177 gpm	175 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	E2PA6D669C	**20LR38**	**30YF42**	**22A484**
	NPT	½ in FNPT	177 gpm	175 °F	Buna N	Buna N	Buna-N	¼ in	Single	E2PA2D229C	**20LR37**	**30YF41**	**22A484**
	NPT	½ in FNPT	177 gpm	220 °F	PTFE	PTFE	—	¼ in	Single	E2PA5F5T9C	**20LR39**	—	**22A484**
Stainless Steel Housing													
½ in	NPT	⅜ in FNPT	12 gpm	180 °F	Buna N	Buna N	Buna-N	1/16 in	Single	E5SP2R229C	**20LR19**	**30YF23**	**22A481**
	NPT	⅜ in FNPT	12 gpm	220 °F	PTFE	PTFE	PTFE	1/16 in	Single	E5SP5T559C	**20LR21**	**30YF25**	**22A481**
	NPT	⅜ in FNPT	12 gpm	300 °F	Santoprene	Santoprene	Santoprene	1/16 in	Single	E5SP6X669C	**20LR20**	**30YF24**	**22A481**
1 in	NPT	⅜ in FNPT	49 gpm	180 °F	Buna N	Buna N	Buna-N	⅛ in	Single	E1SA2R229C-ATEX	**20LR28**	**30YF32**	**30YF44**
	NPT	⅜ in FNPT	49 gpm	220 °F	PTFE	PTFE	—	⅛ in	Single	E1SA5T559C-ATEX	**20LR30**	**30YF34**	**30YF44**
	NPT	⅜ in FNPT	49 gpm	300 °F	Santoprene	Santoprene	Santoprene	⅛ in	Single	E1SA6X669C-ATEX	**20LR29**	**30YF33**	**30YF44**
1 ¼ in	NPT	½ in FNPT	70 gpm	220 °F	PTFE	PTFE	Stainless Steel	3/16 in	Single	E4SA5T5S0-ATEX	**4GGE9**	**33TC35**	**22A483**
	NPT	½ in FNPT	70 gpm	300 °F	Santoprene	Santoprene	Santoprene	3/16 in	Single	E4SA6X660-ATEX	**4GGF1**	**33TC28**	**22A483**
2 in	NPT	½ in FNPT	155 gpm	220 °F	PTFE	PTFE	Stainless Steel	¼ in	Single	E2SA5T5S0C-ATEX	**4GGF5**	**33TC36**	**22A484**
	NPT	½ in FNPT	155 gpm	300 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	E2SA6X660C-ATEX	**4GGF6**	**33TC38**	**22A484**
3 in	NPT	½ in FNPT	230 gpm	220 °F	PTFE	PTFE	Stainless Steel	⅜ in	Single	E3SA5T5S0C-ATEX	**4GGG1**	**22A479**	**22A485**
	NPT	½ in FNPT	230 gpm	300 °F	Santoprene	Santoprene	Santoprene	⅜ in	Single	E3SA6X660C-ATEX	**4GGG2**	**33TC32**	**22A485**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

Dayton Metallic Air-Operated Double Diaphragm Pumps

Self-priming pumps can run dry and are capable of pumping slurries, solvents, and high-viscosity liquids, such as paints and waste oils. Spring-assisted air valve has proprietary seal rings and never requires lubrication. 22A592 and 22A593 are CSA Certified for operation using natural gas.

6PY55

6PY45

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
316 Stainless Steel Housing												
½ in	NPT	¼ in FNPT	12 gpm	180 °F	PTFE	PTFE	Stainless Steel	1/32 in	Single	6PY51	6PY72	6PY78
¾ in	NPT	¼ in FNPT	21 gpm	212 °F	PTFE	PTFE	Stainless Steel	1/16 in	Single	6PY53	6PY73	6PY79
	NPT	¼ in FNPT	28 gpm	212 °F	Santoprene	EPDM	Stainless Steel	1/16 in	Single	6PY47	6PY70	6PY79
1 in	NPT	⅜ in FNPT	35 gpm	212 °F	PTFE	PTFE	Stainless Steel	3/16 in	Single	6PY55	6PY74	6PY79
	NPT	⅜ in FNPT	49 gpm	212 °F	Santoprene	EPDM	Stainless Steel	3/16 in	Single	6PY48	6PY71	6PY79
Aluminum Housing												
½ in	NPT	¼ in FNPT	12 gpm	180 °F	Buna N	Buna N	Aluminum	1/32 in	Single	6PY42	6PY65	6PY78
	NPT	¼ in FNPT	12 gpm	212 °F	PTFE	PTFE	Aluminum	1/32 in	Single	6PY49	6PY72	6PY78
	NPT	¼ in FNPT	12 gpm	212 °F	Santoprene	EPDM	Aluminum	1/32 in	Single	3HJW7	22A611	6PY78
¾ in	NPT	¼ in FNPT	21 gpm	212 °F	PTFE	PTFE	Stainless Steel	1/16 in	Single	6PY52	6PY73	6PY79
	NPT	¼ in FNPT	27 gpm	212 °F	PTFE	PTFE	Stainless Steel	1/16 in	Single	34TJ41	6PY73	6PY79
	NPT	¼ in FNPT	28 gpm	180 °F	Buna N	Buna N	Stainless Steel	1/16 in	Single	6PY43	6PY66	6PY79
	NPT	¼ in FNPT	28 gpm	212 °F	Santoprene	EPDM	Stainless Steel	1/16 in	Single	3HJW8	6PY70	6PY79
	NPT	¼ in FNPT	32 gpm	180 °F	Buna N	Buna N	Aluminum	1/16 in	Single	22A592	6PY66	6PY79
1 in	NPT	⅜ in FNPT	35 gpm	212 °F	PTFE	PTFE	Stainless Steel	3/16 in	Single	6PY54	6PY74	6PY79
	NPT	⅜ in FNPT	41 gpm	212 °F	PTFE	PTFE	Stainless Steel	3/16 in	Single	34TJ42	6PY74	6PY80
	NPT	⅜ in FNPT	46 gpm	180 °F	Buna N	Buna N	Aluminum	3/16 in	—	22A593	6PY67	6PY79
	NPT	⅜ in FNPT	49 gpm	180 °F	Buna N	Buna N	Stainless Steel	3/16 in	Single	6PY44	6PY67	6PY79
	NPT	⅜ in FNPT	49 gpm	212 °F	Santoprene	EPDM	Stainless Steel	3/16 in	Single	3HJW9	6PY71	6PY79
1 ¼ in	NPT	⅜ in FNPT	50 gpm	180 °F	Buna N	Buna N	Aluminum	3/16 in	Single	22A594	6PY67	6PY79
1 ½ in	NPT	½ in FNPT	100 gpm	212 °F	PTFE	PTFE	Aluminum	9/32 in	Single	6PY56	—	6PY80
	NPT	½ in FNPT	115 gpm	180 °F	Buna N	Buna N	Buna-N	9/32 in	Single	6PY45	6PY68	6PY80
	NPT	½ in FNPT	115 gpm	212 °F	Santoprene	EPDM	Santoprene	9/32 in	Single	3HJX1	22A614	6PY80
2 in	NPT	¾ in FNPT	120 gpm	212 °F	PTFE	PTFE	Aluminum	5/16 in	Single	6PY57	6PY76	6PY80
	NPT	¾ in FNPT	150 gpm	180 °F	Buna N	Buna N	Buna-N	2 in	Single	34TJ47	34TJ48	6PY80
	NPT	¾ in FNPT	160 gpm	180 °F	Buna N	Buna N	Buna-N	5/16 in	Single	6PY46	6PY69	6PY80
	NPT	¾ in FNPT	160 gpm	212 °F	Santoprene	EPDM	Santoprene	5/16 in	Single	3HJX2	22A617	6PY80
3 in	NPT	¾ in FNPT	215 gpm	180 °F	Buna N	Buna N	Buna-N	13/32 in	Single	22A595	22A619	22A618
	NPT	¾ in FNPT	215 gpm	212 °F	Santoprene	Santoprene	Santoprene	13/32 in	Single	22A596	22A620	22A618
Cast-Iron Housing												
1 ½ in	NPT	½ in FNPT	107 gpm	212 °F	Santoprene	Santoprene	Santoprene	9/32 in	Single	22A598	22A614	6PY80
2 in	NPT	¾ in FNPT	164 gpm	212 °F	Santoprene	Santoprene	Santoprene	5/16 in	Single	22A599	22A617	6PY80
3 in	NPT	¾ in FNPT	215 gpm	212 °F	Santoprene	Santoprene	Santoprene	13/32 in	Single	22A601	22A620	22A618
Stainless Steel Housing												
½ in	NPT	¼ in FNPT	14 gpm	212 °F	Santoprene	Santoprene	Stainless Steel	1/32 in	Single	22A597	22A611	6PY78
1 ½ in	Flange	½ in FNPT	90 gpm	212 °F	PTFE	PTFE	PTFE	9/32 in	Single	34TJ43	—	6PY80
	Flange	½ in FNPT	102 gpm	180 °F	Santoprene	Santoprene	Santoprene	9/32 in	Single	34TJ44	22A614	6PY80
2 in	Flange	¾ in FNPT	150 gpm	212 °F	PTFE	PTFE	PTFE	5/16 in	Single	34TJ45	6PY76	6PY80
	Flange	¾ in FNPT	160 gpm	180 °F	Santoprene	Santoprene	Santoprene	5/16 in	Single	34TJ46	22A617	6PY80

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

ARO Metallic Air-Operated Double Diaphragm Pumps

Self-priming pumps are capable of running dry and can easily handle slurries, solvents, and other high-viscosity liquids. Constructed of highly fatigue- and abrasion-resistant materials. Air-pressure air valve design helps prevent stalling.

Flap Valve—Durable, multipurpose pump features thick-hinged flap check valves and thick-wall construction for higher solids handling.

Fuel—Identical inlet/outlet manifolds allow variable, interchangeable, and reversible installation. Suitable for use with gasoline, aviation fuel, diesel fuel, fuel oil, kerosene, and water. Meet UL Specification 79.

Aluminum, Split Manifold—Designed with dual inlets to pump and blend antifreeze and water to a 50/50 mixture.

2P598

5XA60

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½ in	NPT	¼ in FNPT	12	150 °F	Nitrile	Nitrile	Polypropylene	3/32 in	Multiport	PD05R-AAS-PGG-B	5XA61	6WU23	5XB26
	NPT	¼ in FNPT	12	150 °F	Santoprene	Santoprene	Polypropylene	3/32 in	Multiport	PD05R-AAS-PAA-B	2CAP9	5XB23	5XB26
	NPT	¼ in FNPT	12	200 °F	PTFE	PTFE	Stainless Steel	3/32 in	Multiport	PD05R-AAS-STT-B	5XA62	5XB24	5XB26
¾ in	NPT	¼ in FNPT	14	150 °F	Hytrel	Hytrel	Polypropylene	3/32 in	Single	PD07R-AAS-PCC	2UV61	6WU23	5XB26
	NPT	¼ in FNPT	14	150 °F	PTFE	PTFE	Polypropylene	3/32 in	Single	PD07R-AAS-PTT	2UV62	5XB24	5XB26
1 in	NPT	¼ in FNPT	35	150 °F	Nitrile	Acetal	Polypropylene	1/8 in	Single	666100-362-C	2P598	4RM94	4RM92
	NPT	¼ in FNPT	35	150 °F	Santoprene	Santoprene	Polypropylene	1/8 in	Single	666100-3EB-C	2CAV1	4RM95	4RM92
	NPT	¼ in FNPT	35	200 °F	PTFE	PTFE	Stainless Steel	1/8 in	Single	666100-244-C	5U664	4RM93	4RM92
1 ½ in	NPT	½ in FNPT	90	150 °F	Nitrile	Acetal	Polypropylene	¼ in	Single	666150-362-C	2P599	4RM97	4RM92
	NPT	½ in FNPT	90	150 °F	Santoprene	Santoprene	Polypropylene	¼ in	Single	666150-3EB-C	2CAV2	4RM98	4RM92
	NPT	½ in FNPT	90	200 °F	PTFE	PTFE	Stainless Steel	¼ in	Single	666150-244-C	5U671	4RM96	4RM92
2 in	NPT	¾ in FNPT	172	180 °F	Nitrile	Nitrile	Nitrile	¼ in	Single	666250-G22-C	3FPR1	3FPP4	4CWJ3
Aluminum Housing, Flap Valve													
2 in	NPT	¾ in FNPT	160	200 °F	Santoprene	Santoprene	Stainless Steel	2 in	Multiport	PF20A-AAS-SAA-B	4RN43	33RM99	4RN09
Aluminum Housing, Fuel Pumps													
½ in	NPT	¼ in FNPT	12	180 °F	Viton	Viton	Aluminum	3/32 in	Single	670042	2UV63	2TV40	—
1 in	NPT	¼ in FNPT	29	180 °F	Viton	Acetal	Kynar	1/8 in	Single	650717-C	3P785	—	4RM92
1 ½ in	NPT	½ in FNPT	75	180 °F	Viton	Acetal	Kynar	¼ in	Single	650718-C	2CAV3	—	4RM92
2 in	NPT	½ in FNPT	75	180 °F	Viton	Acetal	Kynar	¼ in	Single	650719-C	2CAV4	—	4RM92
Aluminum Housing, Split Manifold													
¾ in	NPT	¼ in FNPT	35	150 °F	Nitrile	Acetal	Polypropylene	1/8 in	Single	650715-C	5XA67	4RM94	4RM92
Cast Iron Housing													
1 in	NPT	¼ in FNPT	35	200 °F	Santoprene	Santoprene	Stainless Steel	1/8 in	Single	666102-2EB-C	4RN27	4RM95	4RM92
1 ½ in	NPT	½ in FNPT	90	200 °F	Santoprene	Santoprene	Stainless Steel	¼ in	Single	666152-2EB-C	4RN28	4RM98	4RM92
3 in	NPT	¾ in FNPT	237	200 °F	Santoprene	Santoprene	Stainless Steel	⅜ in	Single	66630C-8EB-C-G	3FPR7	3FPP8	4CWJ3
Stainless Steel Housing													
½ in	NPT	¼ in FNPT	12	200 °F	PTFE	PTFE	Stainless Steel	3/32 in	Multiport	PD05R-ASS-STT-B	5XA60	5XB24	5XB26
	NPT	¼ in FNPT	12	200 °F	Santoprene	Santoprene	Stainless Steel	3/32 in	Multiport	PD05R-ASS-SAA-B	2CAP8	5XB23	5XB26
1 in	NPT	¼ in FNPT	35	200 °F	PTFE	PTFE	Stainless Steel	1/8 in	Single	666111-244-C	5U665	4RM93	4RM92
	NPT	¼ in FNPT	35	200 °F	Santoprene	Santoprene	Stainless Steel	1/8 in	Single	666101-2EB-C	5U666	4RM95	4RM92
1 ½ in	NPT	½ in FNPT	90	200 °F	PTFE	PTFE	Stainless Steel	¼ in	Single	666161-244-C	5U672	4RM96	4RM92
	NPT	½ in FNPT	90	200 °F	Santoprene	Santoprene	Stainless Steel	¼ in	Single	666151-24B-C	5U673	4RM98	4RM92
2 in	NPT	¾ in FNPT	172	200 °F	PTFE	PTFE	PVDF	¼ in	Single	666625B-444-C	3FPR5	3FPP5	4CWJ3
	NPT	¾ in FNPT	172	200 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	666251-EEB-C	3FPR2	3FPP6	4CWJ3
3 in	NPT	¾ in FNPT	237	200 °F	PTFE	PTFE	Stainless Steel	⅜ in	Single	66630B-244-C	3FPR4	3FPP7	4CWJ3

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1.*

For an explanation of diaphragm pump housing materials, see page 2663.

SANDPIPER
A WARREN RUPP PUMP BRAND

Sandpiper Metallic Air-Operated Double Diaphragm Pumps

Pumps are designed for intermittent/on-demand and portable applications handling moderately abrasive fluids and suspended solids.

12W423

12W426

15U527

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing													
½ in	NPT	¼ in FNPT	15	180 °F	Buna N	Buna	UHMW Polyethylene	⅛ in	Multiport	S05B1ABWANS000.	**12W423**	**33TC13**	—
	NPT	¼ in FNPT	15	180 °F	Santoprene	Santoprene	UHMW Polyethylene	⅛ in	Multiport	S05B1A1WANS000.	**12W422**	—	—
	NPT	¼ in FNPT	15	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	⅛ in	Multiport	S05B1A2TANS000.	**12W424**	**33TC14**	—
1 in	NPT	½ in FNPT	45	180 °F	Buna N	Buna	UHMW Polyethylene	¼ in	Single	S1FB1ABWANS000.	**12W426**	—	—
	NPT	½ in FNPT	45	180 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S1FB1A1WANS000.	**12W425**	**33TC15**	—
	NPT	½ in FNPT	45	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	¼ in	Single	S1FB1A2TANS000.	**12W427**	**33TC16**	—
1 ½ in	NPT	¾ in FNPT	106	180 °F	Buna N	Buna	UHMW Polyethylene	¼ in	Single	S15B1ABWANS000.	**15U521**	**39L610**	**39L613**
	NPT	¾ in FNPT	106	180 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S15B1A1WANS000.	**15U522**	**39L611**	**39L613**
	NPT	¾ in FNPT	106	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	¼ in	Single	S15B1A2TANS000.	**15U523**	**39L612**	**39L613**
2 in	NPT	¾ in FNPT	150	180 °F	Buna N	Buna	Buna-N	¼ in	Single	S20B1ABBANS000.	**15U526**	**39L614**	**39L613**
	NPT	¾ in FNPT	150	220 °F	Santoprene	Santoprene	EPDM	¼ in	Single	S20B1A1EANS000.	**15U527**	**39L615**	**39L613**
	NPT	¾ in FNPT	150	275 °F	PTFE - Santoprene Backup	PTFE	PTFE	¼ in	Single	S20B1A2TANS000.	**15U528**	**39L616**	**39L613**
Cast-Iron Housing													
1 in	NPT	½ in FNPT	45	180 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S1FB1I1WANS000.	**29AU56**	**33TC15**	—
1 ½ in	NPT	¾ in FNPT	106	180 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S15B1I1WANS000.	**29AU58**	**39L611**	**39L613**
	NPT	¾ in FNPT	106	220 °F	PTFE - Santoprene Backup	PTFE	—	¼ in	Single	S15B1I2TANS000.	**29AU59**	**39L612**	**39L613**
1 in	NPT	1 in FNPT	45	220 °F	PTFE - Santoprene Backup	PTFE	—	¼ in	Single	S1FB1I2TANS000.	**29AU57**	**33TC16**	—
2 in	NPT	¾ in FNPT	150	220 °F	PTFE - Santoprene Backup	PTFE	—	¼ in	Single	S20B1I2TANS000.	**29AU61**	**39L616**	**39L613**
	NPT	¾ in FNPT	150	275 °F	Santoprene	Santoprene	EPDM	¼ in	Single	S20B1I1EANS000.	**29AU60**	**39L615**	**39L613**
Stainless Steel Housing													
½ in	NPT	¼ in FNPT	15	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	⅛ in	Multiport	S05B1S2TANS000.	**12W430**	**33TC14**	—
	NPT	¼ in FNPT	15	275 °F	Santoprene	Santoprene	UHMW Polyethylene	⅛ in	Multiport	S05B1S1WANS000.	**12W428**	—	—
1 in	NPT	½ in FNPT	45	180 °F	Buna N	Buna	UHMW Polyethylene	¼ in	Single	S1FB1SBWANS000.	**12W432**	—	—
	NPT	½ in FNPT	45	180 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S1FB1S1WANS000.	**12W431**	**33TC15**	—
	NPT	½ in FNPT	45	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	¼ in	Single	S1FB1S2TANS000.	**12W433**	**33TC16**	—
1 ½ in	NPT	¾ in FNPT	106	220 °F	PTFE - Santoprene Backup	PTFE	PTFE	¼ in	Single	S15B1S2TANS000.	**15U525**	**39L616**	**39L613**
	NPT	¾ in FNPT	106	275 °F	Santoprene	Santoprene	UHMW Polyethylene	¼ in	Single	S15B1S1WANS000.	**15U524**	**39L615**	**39L613**
2 in	Flange	¾ in FNPT	150	220 °F	PTFE - Santoprene Backup	PTFE-Santoprene Backup	PTFE	¼ in	Single	S20B1S2TANS000.	**15U530**	**39L616**	**39L613**
	NPT	¾ in FNPT	150	275 °F	Santoprene	Santoprene	EPDM	¼ in	Single	S20B1S1EANS000.	**15U529**	**39L615**	**39L613**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 2 inlets and 2 outlets, use only 1.*

SANDPIPER
A WARREN RUPP PUMP BRAND

Sandpiper Heavy-Duty Air-Operated Double Diaphragm Pumps

Heavy-Duty Ball Valve—Have thick-walled construction that contains up to 30% more material than similar pumps. Ideal for highly viscous and small solids-laden fluids. Bottom discharge porting helps eliminate issues caused by settling solids. Freestanding base helps ease pump rebuild.

Heavy-Duty Flap Valve—Feature hinged-flap check valves to handle abrasive slurries, suspended and unsuspended solids, and line-size solids in horizontal and vertical manifold connections. Have bottom discharge ports. Dry prime up to 24 ft. of water.

6WY85

6WY75

6WY80

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Heavy Duty Ball Valve													
Aluminum Housing													
1 in	NPT	½ in FNPT	42 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	¼ in	Single	SB1,SGN5A.	**6WY83**	**6XA25**	**6XA16**
1 ½ in	NPT	¾ in FNPT	105 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	¼ in	Single	HDB1 ½,SGN8A.	**3CCW5**	**33TC19**	**6XA18**
1 in	NPT	½ in FNPT	42 gpm	275 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	SB1,SS5A.	**6WY84**	**6XA26**	**6XA16**
1 ½ in	NPT	¾ in FNPT	105 gpm	275 °F	Santoprene	Santoprene	Santoprene	¼ in	Single	HDB1 ½,SS8A.	**3CCW4**	**6XA28**	**6XA18**
Cast-Iron Housing													
2 in	NPT	¾ in FNPT	135 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	⅜ in	Single	HDB2,DGN4CI.	**6WY90**	**6XA29**	**6XA18**
	NPT	¾ in FNPT	135 gpm	220 °F	Santoprene	Santoprene	Santoprene	⅜ in	Single	HDB2,DS4CI.	**6WY91**	**6XA30**	**6XA18**
Stainless Steel Housing													
1 in	NPT	½ in FNPT	42 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	¼ in	Single	SB1,SGN5SS.	**6WY85**	**6XA25**	**6XA16**
1 ½ in	NPT	¾ in FNPT	105 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	¼ in	Single	HDB1 ½,SGN8SS.	**3CCW6**	**33TC19**	**6XA18**
3 in	Flange	¾ in FNPT	260 gpm	220 °F	PTFE - Neoprene Backup	PTFE	PTFE	⅞ in	Single	HDB3,DGN4SS.	**6WY93**	**6XA31**	—
Heavy Duty Flap Valve													
Aluminum Housing													
1 in	NPT	½ in FNPT	70 gpm	190 °F	Buna N	Buna	Buna-N	1 in	Single	HDF1,DB2A.	**4YPL8**	**33TC23**	**6XA16**
2 in	NPT	¾ in FNPT	140 gpm	190 °F	Buna N	Buna	Buna-N	2 in	Single	HDF2,DB6A.	**6WY75**	**33TC20**	**6XA18**
	NPT	¾ in FNPT	140 gpm	275 °F	Santoprene	Santoprene	Santoprene	2 in	Single	HDF2,DP6A.	**6WY76**	—	**6XA18**
3 in	Flange	¾ in FNPT	260 gpm	190 °F	Buna N	Buna	Buna-N	3 in	Single	HDF3,DB7.	**6WY81**	**6XA22**	**6XA18**
	Flange	¾ in FNPT	260 gpm	275 °F	Santoprene	Santoprene	Santoprene	3 in	Single	HDF3,DS7.	**6WY80**	**6XA21**	**6XA18**
Cast-Iron Housing													
2 in	NPT	¾ in FNPT	140 gpm	190 °F	Buna N	Buna	Buna-N	2 in	Single	HDF2,DB6I.	**6WY77**	**33TC20**	**6XA18**
	NPT	¾ in FNPT	140 gpm	275 °F	Santoprene	Santoprene	Santoprene	2 in	Single	HDF2,DP6I.	**6WY78**	—	**6XA18**
3 in	Flange	¾ in FNPT	260 gpm	275 °F	Santoprene	Santoprene	Santoprene	3 in	Single	HDF3M,DS2II.	**6WY82**	**6XA23**	—
Stainless Steel Housing													
2 in	NPT	¾ in FNPT	140 gpm	350 °F	Viton	Viton	Viton	2 in	Single	HDF2,DV6S.	**6WY79**	**33TC22**	**6XA18**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

Find an explanation of diaphragm pump housing materials on page 2663.

6CCK2

6CCJ9

6CCL6

6CCL0

4RN14

ARO®

ARO Air-Operated Double Diaphragm Pumps—EXP Series

Provide stall-free, ice-free operation. Pumps feature Quick Dump exhaust valves that divert cold exhaust air from ice-prone components to help prevent freezing. Unbalanced air valve design helps avoid stalling issues associated with other pumps. Suitable for wastewater treatment, recirculating plating solutions, bulk transfer, and chemical formulation applications. Flanges are standard ANSI 150# flanges. 5-yr. manufacturer's warranty.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Temp	Max. Flow (gpm)*	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	H	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
Aluminum Housing														
1 in	NPT	¼ in FNPT	180 °F	52	Nitrile	Nitrile	Nitrile	⅛ in	Multiport	12 7/16 in	PD10A-AAP-GGG	**6CCK8**	**6DMC9**	**6DMA6**
	NPT	¼ in FNPT	200 °F	52	PTFE	PTFE	Aluminum	⅛ in	Multiport	12 7/16 in	PD10A-AAP-FTT	**6CCK7**	**6DMD0**	**6DMA6**
	NPT	¼ in FNPT	200 °F	52	Santoprene	Santoprene	Santoprene	⅛ in	Multiport	12 7/16 in	PD10A-AAP-AAA	**6CCK6**	**6DMC8**	**6DMA6**
1 ¼ in	NPT	½ in FNPT	180 °F	60	Nitrile	Nitrile	Nitrile	⅛ in	Single	16 ⅞ in	PW10A-AAP-GGG	**6CCK5**	**6DMC9**	**6DMA6**
1 ½ in	NPT	½ in FNPT	180 °F	123	Nitrile	Nitrile	Nitrile	¼ in	Multiport	19 ⅝ in	PD15A-AAP-GGG	**6CCN5**	**6DMC2**	**6DMA5**
	NPT	½ in FNPT	200 °F	60	PTFE	PTFE	Aluminum	⅛ in	Single	16 ⅞ in	PW10A-AAP-FTT	**6CCK3**	**6DMD0**	**—**
	NPT	½ in FNPT	200 °F	123	PTFE	PTFE	Aluminum	¼ in	Multiport	19 ⅝ in	PD15A-AAP-FTT	**6CCN4**	**6DMC3**	**6DMA5**
1 ¼ in	NPT	½ in FNPT	200 °F	60	Santoprene	Santoprene	Santoprene	⅛ in	Single	16 ⅞ in	PW10A-AAP-AAA	**6CCK2**	**6DMC8**	**6DMA6**
1 ½ in	NPT	½ in FNPT	200 °F	123	Santoprene	Santoprene	Santoprene	¼ in	Multiport	19 ⅝ in	PD15A-AAP-AAA	**6CCN3**	**6DMC1**	**6DMA5**
1 in	NPT	½ in FNPT	200 °F	60	Viton	Viton	Aluminum	⅛ in	Single	16 ⅞ in	PW10A-AAP-FVV	**6CCK4**	**6DMD1**	**6DMA6**
2 in	NPT	¾ in FNPT	180 °F	172	Nitrile	Nitrile	Nitrile	¼ in	Multiport	26 ¼ in	PD20A-AAP-GGG-B	**6CCP8**	**4RN13**	**6DMA7**
	NPT	¾ in FNPT	200 °F	172	PTFE	PTFE	Stainless Steel	¼ in	Multiport	26 ¼ in	PD20A-AAP-STT-B	**6CCN6**	**4RN14**	**6DMA7**
	NPT	¾ in FNPT	200 °F	172	Santoprene	Santoprene	Santoprene	¼ in	Multiport	26 ¼ in	PD20A-AAP-AAA-B	**6CCP6**	**4RN12**	**6DMA7**
3 in	NPT	¾ in FNPT	180 °F	275	Nitrile	Nitrile	Nitrile	⅜ in	Single	32 in	PD30A-AAP-GGG-C	**6CCR8**	**6DMA8**	**6DMA7**
	NPT	¾ in FNPT	200 °F	275	PTFE	PTFE	Aluminum	⅜ in	Multiport	32 in	PD30A-AAP-FTT-C	**6CCP4**	**33RN28**	**6DMA7**
	NPT	¾ in FNPT	200 °F	275	Santoprene	Santoprene	Santoprene	⅜ in	Single	32 in	PD30A-AAP-AAA-C	**6CCR7**	**4RN10**	**6DMA7**
Cast-Iron Housing														
1 in	NPT	¼ in FNPT	200 °F	52	Santoprene	Santoprene	Santoprene	⅛ in	Multiport	12 7/16 in	PD10A-ACP-AAA	**6CCL1**	**6DMC8**	**6DMA6**
1 ½ in	NPT	½ in FNPT	200 °F	123	Santoprene	Santoprene	Santoprene	¼ in	Multiport	19 ⅝ in	PD15A-ACP-AAA	**6CCN8**	**6DMC1**	**6DMA5**
2 in	NPT	¾ in FNPT	200 °F	172	Santoprene	Santoprene	Santoprene	¼ in	Multiport	26 ¼ in	PD20A-ACP-AAA-B	**6CCR1**	**4RN12**	**6DMA7**
3 in	NPT	¾ in FNPT	200 °F	275	Santoprene	Santoprene	Santoprene	⅜ in	Single	32 in	PD30A-ACP-AAA-C	**6CCT0**	**4RN10**	**6DMA7**
Polypropylene Housing														
⅜ in	NPT	¼ in FNPT	150 °F	8.7	Hytrel	Nitrile	Polypropylene	1/16 in	Single	9 5/16 in	PD03P-APS-0JC	**6CCJ9**	**6DMD2**	**5XB26**
	NPT	¼ in FNPT	150 °F	8.7	PTFE	Viton	Polypropylene	1/16 in	Single	9 5/16 in	PD03P-APS-0LT	**6CCK0**	**6DMD5**	**5XB26**
	NPT	¼ in FNPT	150 °F	8.7	Santoprene	Neoprene	Polypropylene	1/16 in	Single	9 5/16 in	PD03P-APS-0NA	**6CCK1**	**6DMD3**	**5XB26**
1 in	Flange	¼ in FNPT	150 °F	53	PTFE	PTFE	Polypropylene	⅛ in	Flanged	14 5/16 in	PD10P-YPS-PTT	**6CCN0**	**6DMC7**	**6DMA6**
	Flange	¼ in FNPT	150 °F	53	PTFE	PTFE	Polypropylene	⅛ in	Flanged	16 in	PD10P-FPS-PTT	**6CCL8**	**6DMC7**	**6DMA6**
	Flange	¼ in FNPT	150 °F	53	Santoprene	Santoprene	Polypropylene	⅛ in	Flanged	14 5/16 in	PD10P-YPS-PAA	**6CCL9**	**6DMC6**	**6DMA6**
	Flange	¼ in FNPT	150 °F	53	Santoprene	Santoprene	Polypropylene	⅛ in	Flanged	16 in	PD10P-FPS-PAA	**6CCL7**	**6DMC6**	**6DMA6**
1 ½ in	Flange	½ in FNPT	150 °F	123	PTFE	PTFE	Polypropylene	¼ in	Flanged	24 7/16 in	PD15P-FPS-PTT	**6CCP1**	**6DMC5**	**6DMA5**
	Flange	½ in FNPT	150 °F	123	PTFE	PTFE	Polypropylene	¼ in	Flanged	24 9/16 in	PD15P-YPS-PTT	**6CCP3**	**6DMC5**	**6DMA5**
	Flange	½ in FNPT	150 °F	123	Santoprene	Santoprene	Polypropylene	¼ in	Flanged	24 7/16 in	PD15P-FPS-PAA	**6CCP0**	**6DMC4**	**6DMA5**
	Flange	½ in FNPT	150 °F	123	Santoprene	Santoprene	Polypropylene	¼ in	Flanged	24 9/16 in	PD15P-YPS-PAA	**6CCP2**	**6DMC4**	**6DMA5**
1 in	NPT	¼ in FNPT	150 °F	53	PTFE	PTFE	Polypropylene	⅛ in	Single	14 13/16 in	PD10P-APS-PTT	**6CCL6**	**6DMC7**	**6DMA6**
	NPT	¼ in FNPT	150 °F	53	Santoprene	Santoprene	Polypropylene	⅛ in	Single	14 13/16 in	PD10P-APS-PAA	**6CCL5**	**6DMC6**	**6DMA6**
2 in	Flange	¾ in FNPT	150 °F	184	PTFE	PTFE	Polypropylene	¼ in	Flanged	31 ⅞ in	PD20P-FPS-PTT	**6CCR5**	**6DMC0**	**6DMA4**
	Flange	¾ in FNPT	150 °F	184	Santoprene	Santoprene	Polypropylene	¼ in	Flanged	31 ⅞ in	PD20P-FPS-PAA	**6CCR4**	**6DMA9**	**6DMA4**
Stainless Steel Housing														
1 in	NPT	¼ in FNPT	200 °F	52	PTFE	PTFE	Stainless Steel	⅛ in	Multiport	12 7/16 in	PD10A-ASS-STT	**6CCL4** ‡	**6DMD0**	**6DMA6**
	NPT	¼ in FNPT	200 °F	52	PTFE	PTFE	Stainless Steel	⅛ in	Multiport	12 7/16 in	PD10R-ASS-STT	**6CCN1** ‡	**6DMD0**	**6DMA6**
	NPT	¼ in FNPT	200 °F	52	Santoprene	Santoprene	Santoprene	⅛ in	Multiport	12 7/16 in	PD10R-ASS-AAA	**6CCL2** ‡	**6DMC8**	**6DMA6**
	NPT	¼ in FNPT	200 °F	52	Santoprene	Santoprene	Santoprene	⅛ in	Multiport	12 7/16 in	PD10A-ASS-AAA	**6CCL0** ‡	**6DMC8**	**6DMA6**
1 ½ in	NPT	½ in FNPT	200 °F	123	PTFE	PTFE	Stainless Steel	¼ in	Multiport	19 ⅝ in	PD15A-ASS-STT	**6CCN9**	**6DMC3**	**6DMA5**
	NPT	½ in FNPT	200 °F	123	Santoprene	Santoprene	Santoprene	¼ in	Multiport	19 ⅝ in	PD15A-ASS-AAA	**6CCN2**	**6DMC1**	**6DMA5**
2 in	NPT	¾ in FNPT	200 °F	172	PTFE	PTFE	Stainless Steel	¼ in	Multiport	26 ¼ in	PD20A-ASS-STT-B	**6CCR2**	**4RN14**	**6DMA7**
	NPT	¾ in FNPT	200 °F	172	Santoprene	Santoprene	Santoprene	¼ in	Multiport	26 ¼ in	PD20A-ASS-AAA-B	**6CCN7**	**4RN12**	**6DMA7**
3 in	NPT	¾ in FNPT	200 °F	275	PTFE	PTFE	Stainless Steel	⅜ in	Single	32 in	PD30A-ASS-STT-C	**6CCP7**	**33RN28**	**6DMA7**
	NPT	¾ in FNPT	200 °F	275	Santoprene	Santoprene	Santoprene	⅜ in	Single	32 in	PD30A-ASS-AAA-C	**6CCP5**	**4RN10**	**6DMA7**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet; Multiport = 3 inlets and 2 outlets, use only 1. ‡ 6CCL4 and 6CCL0 are 14"W. 6CCN1 and 6CCL2 are 8 5/16" W.*

Dayton Food-Grade Air-Operated Double Diaphragm Pumps

Dayton®

22A603

Can handle a variety of fluids and are designed for food ingredients, cosmetic, and pharmaceutical processes where 3A Sanitary certification is not required. Feature 316 stainless steel construction with passivated satin finish, and have FDA-compliant elastomers with sanitary clamp fittings. Built for applications requiring FDA approval.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Pumps	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
316 Stainless Steel Housing												
1 in	Tri-Clamp	¼ in FNPT	14 gpm	212 °F	Hytrel	PTFE	316 Stainless Steel	1/32 in	Single	**22A602**	**22A621**	**6PY78**
	Tri-Clamp	¼ in FNPT	14 gpm	212 °F	PTFE	PTFE	316 Stainless Steel	1/32 in	Single	**22A603**	**6PY72**	**6PY78**
	Tri-Clamp	¼ in FNPT	32 gpm	212 °F	Hytrel	PTFE	316 Stainless Steel	1/16 in	Single	**22A604**	**22A622**	**22A610**
	Tri-Clamp	¼ in FNPT	32 gpm	212 °F	PTFE	PTFE	316 Stainless Steel	1/16 in	Single	**22A605**	**6PY73**	**22A610**
1 ½ in	Tri-Clamp	⅜ in FNPT	46 gpm	212 °F	Hytrel	PTFE	316 Stainless Steel	3/16 in	Single	**22A606**	**22A623**	**22A610**
	Tri-Clamp	⅜ in FNPT	46 gpm	212 °F	PTFE	PTFE	316 Stainless Steel	3/16 in	Single	**22A607**	**6PY74**	**22A610**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

Find an explanation of diaphragm pump housing materials on page 2663.

39N546

454U34

39N544

STANDARD Pump

Standard Pump Food-Grade Air-Operated Double-Diaphragm Pumps

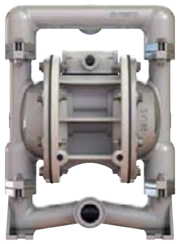
- Sanitary and FDA Compliant pumps are for food processing and pharmaceutical applications, and can be quickly disassembled for cleaning (COP)

Item	For Use With Grainger Item Number	Item No.
Wet End Repair Kit AODD Pump	39N548, 39N551	**24WA30**
	39N546, 39N550	**24WA28**
	39N547	**24WA29**
	39N544	**24WA26**

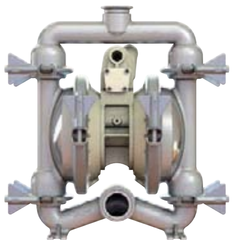
Inlet/Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.
316 Stainless Steel Housing											
1 ½ in	Tri-Clamp	½ in NPT	41 gpm	180 °F	Santoprene	Santoprene	316 S.S.	⅛ in	Single	SPFG10SSS	**454U32**
	Tri-Clamp	½ in FNPT	51 gpm	220 °F	PTFE	PTFE	316 S.S.	⅜ in	Single	SPSN15NPT	**39N546**
	Tri-Clamp	½ in FNPT	86 gpm	275 °F	Santoprene	Santoprene	316 S.S.	⅜ in	Single	SPSN15NPS	**39N547**
2 in	Tri-Clamp	½ in NPT	120 gpm	180 °F	Santoprene	Santoprene	316 S.S.	3⁄16 in	Single	SPFG15SSS	**454U34**
	Tri-Clamp	½ in NPT	120 gpm	180 °F	PTFE	PTFE	316 S.S.	3⁄16 in	Single	SPFG15SST	**454U35**
	Tri-Clamp	½ in FNPT	147 gpm	220 °F	PTFE	PTFE	316 S.S.	⅝ in	Single	SPSN20NPT	**39N548**
3 in	Tri-Clamp	½ in FNPT	150 gpm	275 °F	EPDM	—	316 S.S.	2 ½ in	Multiport	SPPP30SSE	**53WA92**
	Tri-Clamp	½ in FNPT	180 gpm	220 °F	PTFE	PTFE	316 S.S.	⅜ in	Single	SPFP30NPT	**39N544**
	Tri-Clamp	½ in FNPT	234 gpm	275 °F	Santoprene	Santoprene	Santoprene	⅜ in	Single	SPFP30NPS	**39N545**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

22A406



22A399



22A401

VERSA-MATIC®

Versa-Matic Food-Grade Air-Operated Double-Diaphragm Pumps

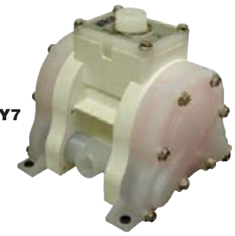
3A Sanitary—Feature a leak detection system, clean-in-place (CIP) design, and removable ball cages to ease cleaning. 32 ra surface finish. Models include a rotating pump stand for drainage.

FDA—Constructed of FDA-compliant materials and feature the innovative Elima-Matic air valve system that virtually eliminates stalling, icing, and the need for lubrication. Pumps have an internal and external electro-polished finish, tri-clamp connections to ease disassembly, and nickel-plated or non-metallic chemical-resistant air sections for washdown.

Inlet/ Outlet Size	Connection Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connection†	Mfr. Model	PUMP Item No.	FLUID END REPAIR KIT Item No.	AIR END REPAIR KIT Item No.
3A Sanitary, Stainless Steel Housing													
1½"	Tri-Clamp	½ in FNPT	86 gpm	220 °F	PTFE	PTFE	Stainless Steel	⅜"	Single	E4SJ5F5S0-3A	**22A406**	—	**22A483**
2"	Tri-Clamp	½ in FNPT	147 gpm	220 °F	PTFE	PTFE	Stainless Steel	⅝"	Single	E2SJ5F5S0C-3A	**22A407**	—	**22A484**
FDA, Stainless Steel Housing													
½"	Tri-Clamp	⅜ in FNPT	12 gpm	220 °F	PTFE	PTFE	Stainless Steel	1⁄16"	Single	E5SP5F559C-FP	**22A398**	**22A475**	**22A481**
1"	Tri-Clamp	⅜ in FNPT	46 gpm	220 °F	PTFE	PTFE	Stainless Steel	⅛"	Single	E1SP5F559C-FP	**22A399**	**22A476**	**22A482**
1½"	Tri-Clamp	½ in FNPT	71 gpm	220 °F	PTFE	PTFE	Stainless Steel	3⁄16"	Single	E4SJ5F5S0-FP	**22A401**	**22A477**	**22A483**
2"	Tri-Clamp	½ in FNPT	185 gpm	220 °F	PTFE	PTFE	Stainless Steel	¼"	Single	E2SJ5F5S0C-FP-ATEX	**22A402**	**33TC18**	**22A484**
3"	Tri-Clamp	½ in FNPT	234 gpm	220 °F	PTFE	PTFE	Stainless Steel	⅜"	Single	E3SJ5T5S0C-FP-ATEX	**22A403**	**22A479**	**22A485**

** Flow rate depends on air pressure and fluid viscosity. † Single = 1 inlet and outlet.*

4YD53



2ERY7

FLOJET WARREN RUPP® IDEX

Air-Operated Double-Diaphragm Pumps

Single Manifold—Feature a stallproof shuttle valve design and plug-in port fittings for easy installation.

Multiport Manifold—Can be run dry without damage. Capable of dead-heading against a closed discharge.

Inlet/ Outlet Size	Connec. Style	Air Inlet Size	Max. Flow (gpm)*	Max. Temp	Diaphragm Material	Ball Material	Check Seat Material	Max. Dia. Solids	Manifold Connec.	Self-Priming Dry	Self-Priming Wet	Brand	Mfr. Model	Item No.
Acetal Housing														
⅜ in	Hose Barb	¼ in Barb	2.5 gpm	120 °F	Viton	Polypropolyne	Viton	⅛ in	Single	28 ft	32 ft	Flojet	N5100020G	**12W294**
Kynar Housing														
⅜ in	NPT	¼ in FNPT	6.8 gpm	220 °F	PTFE	PTFE	PTFE	1⁄10 in	Multiport	8 ft	10 ft	Warren-Rupp	WR10KP5BKK9.	**2ERY9**
Polypropylene Housing														
½ in	Hose Barb	¼ in Barb	5 gpm	120 °F	Santoprene	—	Santoprene	⅛ in	Single	15 ft	20 ft	Flojet	G575215Z	**4YD53**
½ in	Hose Barb	¼ in Barb	5 gpm	120 °F	Viton	Viton	Viton	⅛ in	Single	15 ft	20 ft	Flojet	G573215Z	**2XE84**
⅜ in	NPT	¼ in FNPT	5 gpm	275 °F	Santoprene	Santoprene	Santoprene	1⁄10 in	Multiport	8 ft	10 ft	Warren-Rupp	WR10PP6XPP9.	**2ERY7**
⅜ in	NPT	¼ in FNPT	6.8 gpm	220 °F	PTFE	PTFE	PTFE	1⁄10 in	Multiport	8 ft	10 ft	Warren-Rupp	WR10PP5BPP9.	**2ERY8**

** Flow rate depends on air pressure and fluid viscosity.*

PENTAIR

SHURFLO® Little GIANT FLOJET

Sprayer Pumps

- Thermally protected motors (except 4UN19)
- Sealless design

Pumps can run dry without damage (except 11W067). Pressure demand switches automatically turn pumps off when the outlet is closed. Sealless design eliminates troublesome shaft seals and potential leakage into the motor.

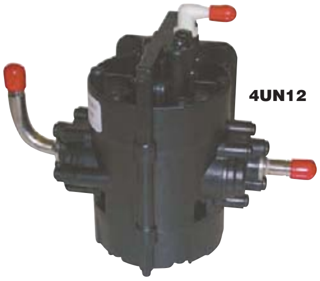
Note: Not for use in potable water systems. Not for use with gasoline.

AIR-DRIVEN INJECTION

- Max. air inlet pressure: 60 psi
- Suction lift (wet): 25" Hg

2-chamber double-diaphragm pumps can be used for chemical transfer, soap dispensing, or to inject liquid fertilizer. Pumps operate with CO_2, nitrogen, or clean, filtered, compressed air. Performance varies with liquid viscosity.

Note: Always check for chemical compatibility of elastomers prior to installation.



4UN12

4UN55 AND 4UN56

Built-in outlet check valve prevents supply tank from draining through pump when pump is mounted up to 4 ft. below tank liquid level. UL Listed and CSA Certified.

4UN18 TO 4UN20

Pumps come with 1 straight barb swivel fitting and one 90° elbow barb swivel fitting. Use with SHURflo brand fittings only. UL Listed and CSA Certified.

11W067

4UN20

2P795

2P796

Housing features port locations that can be rotated in 90° increments to simplify installation.

Inlet/ Outlet (in.)	Voltage	Max. Flow	Pressure On	Pressure Off	Max. Temp	Housing Material	Diaphragm Material	Check Valve	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Air-Driven Injection														
⅜ in HB	—	0.6 gpm	—	—	130 °F	Polypropylene	Buna	Buna	5.8	3.8	6.75	Shurflo	166-200-46	**4UN13**
	—	0.6 gpm	—	—	130 °F	Polypropylene	EPDM	EPDM	5.8	3.8	6.75	Shurflo	166-200-56	**4UN14**
	—	0.6 gpm	—	—	130 °F	Polypropylene	Santoprene	Santoprene	5.8	3.8	6.75	Shurflo	166-200-57	**4UN15**
	—	0.6 gpm	—	—	130 °F	Polypropylene	Viton	Viton	5.8	3.8	6.75	Shurflo	166-200-36	**4UN12**
Centrifugal Carpet Cleaner Pump														
⅜ in HB	120V AC	2.8 gpm	—	—	120 °F	Nylon	—	No	6.9	4	2.9	Little Giant	532002	**11W067**
Diaphragm Pump														
⅜ in FNPT	24V DC	1.6 gpm	40	60	140 °F	Polypropylene	Buna	Buna	7.9375	4	3.625	Flojet	D3231B5011A	**10H913**
	120V AC	1.1 gpm	85	100	130 °F	Nylon	Santoprene	Viton	8.4	4.0	4.3	Shurflo	8000-811-288	**4UN56**
	120V AC	1.6 gpm	85	100	130 °F	Nylon	Santoprene	Viton	8.4	4.0	4.1	Shurflo	8000-813-238	**4UN55**
½ in-14 MSPT	12V DC	3 gpm	25	45	130 °F	Polypropylene	Santoprene	Viton	8.6	5.0	4.4	Shurflo	2088-343-135	**4UN19**
	12V DC	3.6 gpm	25	45	130 °F	Polypropylene	Santoprene	Viton	9.8	5.0	4.4	Shurflo	2088-313-145	**4UN18** *
	120V AC	3.2 gpm	25	45	130 °F	Polypropylene	Santoprene	Viton	8.6	5.0	4.4	Shurflo	2088-394-154	**4UN20**
Electric Sprayer Pump														
¼ in FNPT	120V AC	1.6 gpm	80	100	160 °F	Nylon	EPDM	Viton	7.65	3.24	3.63	Flojet	02130571G	**2P796**
⅜ in HB	12V DC	1 gpm	20	35	110 °F	Polypropylene	Santoprene	Viton	6.37	3.94	2.38	Flojet	LF112301G	**2XE86** *
⅜ in FNPT	12V DC	2 gpm	40	60	140 °F	Polypropylene	Santoprene	Viton	8.92	3.96	3.66	Flojet	03501-503A	**2XE88**
	12V DC	2.1 gpm	40	60	140 °F	Polypropylene	Santoprene	Viton	7.65	3.24	3.63	Flojet	D21X005A	**2XE87**
	120V AC	1.6 gpm	40	60	140 °F	Polypropylene	Santoprene	Viton	7.65	3.24	3.63	Flojet	02100953G	**2P795**
½ in HB	12V DC	3.7 gpm	25	40	140 °F	Polypropylene	Santoprene	Viton	9.24	3.19	3.75	Flojet	04300-528A	**2XE89**

**** Motor has a heavy-duty heat sink to help keep it cool.***

Dayton®

AC Fuel Transfer Pump

- 115VAC
- Self-priming
- Aluminum housing, resists corrosion

Rainproof and weatherproof for tough outdoor use, pump features an overload protected and intrinsically-safe motor with circuit breaker protection. Pump switches off when the nozzle is placed into the nozzle holder. The geared pump design uses sintered metal gears that provide greater suction, minimal noise, and higher tolerance to contaminants. Fuse with outside access. Includes a lockable nozzle cover and swivel at nozzle.

Pump Design	For Use With	HP	GPM	Inlet Size	Outlet Size	Metered	Hose Length	Nozzle Type	Item No.
Gear	Tank 55 gal Drums	⅛	13 gpm	1 in	¾ in	No	12 ft	Manual	**12F726**

Dayton®

12F724

DC Fuel Transfer Pumps

- 12VDC
- Self-priming
- Aluminum housing, resists corrosion

40M293

Gear—Rainproof and weatherproof for tough outdoor use, pumps feature an overload protected and intrinsically-safe motor with circuit breaker protection. Pumps switch off when the nozzle is placed into the nozzle holder. The geared pump design uses sintered metal gears that provide greater suction, minimal noise, and higher tolerance to contaminants. Fuse with outside access. Include a lockable nozzle cover and swivel at nozzle.

Rotary Vane—Lightweight, and features an external strainer and internal bypass valve. Designed for everyday use in agricultural, construction, automotive, and industrial applications.

For Use With	HP	GPM	Inlet Size	Outlet Size	Metered	Hose Length	Nozzle Type	Item No.
Gear								
Tank 55 gal Drums	½	15 gpm	1 in	¾ in	No	12 ft	Manual	**12F724**
Tank 55 gal Drums	½	20 gpm	1 in	1 in	No	12 ft	Manual	**12F725**
Rotary Vane								
Base Mounted	¼	12 gpm	¾ in	¾ in	No	13 ft	Manual	**40M293**

30J092

AC Fuel Transfer Pumps

FILL-RITE

These rotary vane, self-priming pumps let you dispense B20, diesel, E15, gasoline, and kerosene. For use on construction sites and farms. With internal bypass valves, Viton O-rings, heavy-duty switch, and permanently lubricated ball bearings. The permanent magnet motors can operate continuously for up to 30 min., are ntrinsically-safe, and have thermal overload protection. Models with nozzle are lockable. Pumps can be mounted to a standard 2" NPT opening with included bung adapter.

Note: Find Fill-Rite Pump Repair Kits at Grainger.com.

HP	GPM	Inlet Size	Outlet Size	Hose Length	Housing Material	Seal Material*	Nozzle Type	Metered	Mfr. Model	Item No.
115/230V AC										
¾	30 gpm	1¼ in MNPT	1 in	—	Cast Iron	Carbon	—	No	FR310VN	**32GG92**
		Inlet Size, Bung : 2 in Male NPT; Suction Pipe 1 ¼ in Female NPT	1 in	18 ft	Cast Iron	Carbon	Automatic	Yes	FR311VB	**32GG94**
		1¼ in MNPT	1 in	18 ft	Cast Iron	Carbon	Automatic	No	FR310VB	**32GG95**
	35 gpm	1¼ in MNPT	1 in	—	Cast Iron	Carbon	—	Yes	FR311VN	**32GG93**
115V AC										
⅓	20 gpm	1¼ in MNPT	¾ in FNPT	12 ft	Cast Iron	Carbon	Manual	Yes	FR701V	**5TXG6**
		1¼ in MNPT	¾ in FNPT	12 ft	Cast Iron	Carbon	Manual	No	FR700V	**2GMP5**
		1¼ in MNPT	1 in FNPT	18 ft	Cast Iron	Carbon	Ultra High Flow Automatic	Yes	FR711VA	**30J091**
		1 ¼ in	¾ in NPT	12 ft	Cast Iron	Buna-N	—	Yes	FR702VRU	**61DJ24**
⅙	15 gpm	1 in MNPT	¾ in FNPT	12 ft	Cast Iron	C/C	Manual	No	FR610H	**4RP94**
		1 in MNPT	¾ in FNPT	12 ft	Cast Iron	C/C	Automatic	No	FR610HA	**30J093**
115V AC and 230V AC										
¾	35 gpm	1¼ in MNPT	1 in FNPT	18 ft	Cast Iron	C/C	Ultra High Flow Automatic	Yes	FR319VB	**30J092**

** C/C = ceramic/carbon.*

1P894

FILL-RITE

DC Fuel Transfer Pumps

Self-priming, rotary vane, and allow you to dispense B20, diesel, E15, gasoline, and kerosene, except 38NH81 and 38NH82 are for biodiesel, diesel, and gasoline; 38NH83 is not compatible with gasoline. For use on construction sites and farms. With internal bypass valves and heavy-duty switch. Motors can operate continuously for up to 30 min., are intrinsically-safe, and thermal overload protected; except 38NH82, 38NH83, 38NH87, and 429J10 are not intrinsically-safe and have no thermal overload protection; 48YA42 is not thermal overload protected; 416K59 and 416K60 are not intrinsically-safe. 45KM61 to 45KM63 have reconfigureable flanges.

Note: Find Fill-Rite Pump Repair Kits at Grainger.com.

HP	GPM	Inlet Size	Outlet Size	Hose Length	Housing Material*	Seal Material†	Nozzle Type	Metered	Mfr. Model	Item No.
12 to 24V DC										
⅓	25 gpm	1¼ in FNPT	1 in FNPT	—	CI	Buna-N	—	No	NX25-DDCNB-PX	**429J10**
		1¼ in FNPT	1 in FNPT	18 ft	CI	Buna-N	Automatic	No	NX25-DDCNF-AA	**429J12**
12V DC										
¼	13 gpm	1 in MNPT	¾ in FNPT	10 ft	CI	C/C	Manual	No	SD1202H	**3KZH7**
	15 gpm	1 in MNPT	¾ in FNPT	12 ft	CI	C/C	Manual	No	FR1210H	**1P894**
		1 in MNPT	1 in FNPT	12 ft	CI	C/C	Manual	Yes	FR1211H	**30J088**
		1 in	¾ in	—	CI	Buna-N	—	No	FR1204H	**38NH81**
		1 in	¾ in	12 ft	CI	Buna-N	Automatic	No	FR1210HA	**38NH82**
		1 in FNPT	¾ in FNPT	12 ft	CI	C/C	Manual	Yes	FR1219H	**416K59**
		1 in NPT	¾ in NPT	12 ft	CI	Carbon	Automatic	No	FR1210HA1	**48YA42**
	20 gpm	1 in MNPT	¾ in FNPT	18 ft	CI	C/C	Ultra High Flow Automatic	No	FR4210HBFQ	**4FY15**
		1 in MNPT	1 in FNPT	12 ft	CI	C/C	Manual	No	FR4210H	**4RP93**
		1 in MNPT	1 in FNPT	12 ft	CI	C/C	Manual	Yes	FR4211H	**30J090**
		1 in	1 in	—	CI	Buna-N	—	No	FR4204H	**38NH87**
		1 in FNPT	¾ in FNPT	12 ft	CI	C/C	Manual	Yes	FR4219H	**416K60**
⅕	10 gpm	¾ in	¾ in	—	CI	HNBR	—	No	FR1612	**38NH83**
	12 gpm	¾ in NPT	¾ in NPT	—	AL	Buna-N	—	No	RD1212NN	**45KM61**
		¾ in NPT	¾ in NPT	8 ft	AL	Buna-N	Manual	No	RD1212NH	**45KM62**
		¾ in NPT	¾ in NPT	8 ft	AL	Buna-N	Manual	No	RD1212NP	**45KM63**
24V DC										
¼	15 gpm	1 in MNPT	1 in FNPT	12 ft	CI	C/C	Manual	Yes	FR2411H	**30J089**

** CI = cast iron, AL = aluminum. † C/C = ceramic/carbon.*

36NL24

Portable DC Fuel Transfer Pumps

FILL-RITE

Low-profile and self-priming with configurable flanges that allow you to position the inlet and outlet to fit your needs. Intrinsically-safe motor with thermal overload protection, cast-iron housing, and Buna-N seal. 36NL24 comes with a suction hose, discharge hose, and nozzle. 36NL26 comes with hose, nozzle, and bung adapter. All models include a quick connect battery cable.

Compatible Fluids	Voltage	HP	GPM	Inlet Size	Outlet Size	Hose Length	Nozzle Type	Metered	Mfr. Model	Item No.
Biodiesel up to B20, Diesel, E15, Gasoline, Kerosene	12V DC	⅕ hp	8 gpm	¾ in MNPT	¾ in	—	Manual	No	RD812NN	**36NL25**
			8 gpm	¾ in MNPT	¾ in	8 ft	Manual	No	RD812NH	**36NL24**
			8 gpm	¾ in MNPT	¾ in	8 ft	Manual	No	RD812NP	**36NL26**

Fuel Flowmeters

FILL-RITE

Inlet and outlet ports can be rotated in 90° increments to ease installation. All models are UL and C-UL Listed, except 24KJ09 and 3XNL1. 1P951 and 5P232 have nickel-plated aluminum housing and Type 303 stainless steel shaft. 3XNL1, 24KJ09, 3MMP5, 3KMR1, 4RP91, and 4RP92 have corrosion-resistant aluminum housings. All models are not for resale measuring use.

2 TO 20 GPM

Can be calibrated without dispensing fluids to measure ounces, pints, quarts, liters, or gallons to ±0.5% accuracy. Resettable totalizer counts to 1000 gal. Weatherproof.

Note: Not for use with gasoline or fluids with a flash point of 100°F or less.

5 TO 20 GPM

Resettable flowmeters with nonresettable 100,000-gal. totalizer. ±1% accuracy. 24KJ09 and 3KMR1 can be field calibrated.

Note: Do not use for liquids thicker than diesel fuel.

6 TO 40 GPM

3XNL1, 3MMP5, 4RP92, and 5P232 measure flow to 1000 gal. ±2% accuracy. Nonresettable master totalizer: 3XNL1, 3MMP5, and 4RP92 count to 1,000,000 gal., 5P232 counts to 100,000 gal.

Note: Do not use for liquids thicker than diesel fuel.

4RP95

Flow Material	Display	Seal Material	Flow Range	Connec. Size	Resettable Cumulative Totalizer	Max. Pressure	L	W	H	Mfr. Model	Item No.
B20, Diesel, E15, Gasoline, Kerosene	Mechanical	—	5 to 20 gpm	¾ in	1,000 gal	50 psi	8 in	6 in	6 in	807CMK	**3KMR1**
	Mechanical	—	6 to 40 gpm	1 in	1,000 gal	50 psi	9 ¼ in	6 ¼ in	5 ½ in	901CMK4200	**3MMP5**
	Mechanical	Viton	5 to 20 gpm	1 in	100 gal	50 psi	8 in	6 in	6 in	807CN1	**1P951**
	Mechanical	Viton and Buna	5 to 20 gpm	1 in	100 gal	50 psi	8 in	6 in	6 in	807C1	**4RP91**
	Mechanical	Viton and Buna	6 to 40 gpm	1 ½ in	1,000 gal	50 psi	9 ¼ in	6 ¼ in	5 ½ in	901C1.5	**4RP92**
B20, Diesel, E15, Gasoline, Kerosene, Non-Potable Water	Mechanical	Viton	6 to 40 gpm	1 ½ in	1,000 gal	50 psi	9 ¼ in	6 ¼ in	5 ½ in	901CN1.5	**5P232**
Diesel, Kerosene, Water	Digital, LCD	Viton and Buna	2 to 20 gpm	1 in	9999 gal.	100 psi	5 ½ in	5 ¼ in	5 in	820	**4RP95**
Gasoline, Diesel, B20, E15, Kerosene	Mechanical	—	5 to 20 gpm	¾ in	100 gal	50 psi	8 in	6 in	6 in	807C	**24KJ09**
	Mechanical	—	6 to 40 gpm	1 in	1,000 gal	50 psi	9 ¼ in	6 ¼ in	5 ½ in	901C	**3XNL1**

Fuel Filters

Dayton FILL-RITE

Can be used with gasoline, diesel fuel, ethanol blended gasoline (E1 to E85), and biodiesel (up to B20), except Filter Elements 40M298, 40M299, and 12F734 are only for use with gasoline and diesel fuel, and Fill-Rite models are not for use with aviation fuel.

WARNING: Use only with liquids compatible with pump component materials.

Dayton—Use with Fuel Transfer Pumps 4RP93 and 4FY15 on page 2670.

Fill-Rite—Aluminum-Head Filter 4FY23 is for use with Transfer Pump 4RP93 on page 2670.

Replacement Fuel Filter Canisters and Elements—Screw onto existing filter housings. Buna N gasket.

- Filter down to 10 microns, except 4FY24 is 30 microns

4FY23

Size	Flow Rate (gpm)	Head Material	Includes	H (in.)	Brand	Mfr. Model	Item No.
Filter Housings							
¾ in NPT	20	Aluminum	Contaminant Filter	10 ¼	Dayton	12F727	**12F727**
1 in NPT	40	Aluminum	1 in Street Elbow, 1 in x 7 in Pipe Nipple, Carbon Steel Screw on Filter Canister	12 ¾	Fill-Rite	311KTF7029GR	**4FY23**
1 in NPT	20	Aluminum	Contaminant Filter	10 ¼	Dayton	12F728	**12F728**
1 in NPT	20	Aluminum	Filter	7 11⁄16	Dayton	40M298	**40M298**
1 in NPT	20	Aluminum	Water Block Filter	7 11⁄16	Dayton	40M299	**40M299**

Description	For Use With	Brand	Mfr. Model	Item No.
Replacement Fuel Filter Canisters and Elements				
Filter Kit	—	Dayton	40M302	**40M302**
Filter Wrench	Fuel Filter	Dayton	40M291	**40M291**
Fuel Filter	4FY23 Fuel Filter Housing, Mfr. No. 311KTF7029	Fill-Rite	F4030PM0	**4FY24**
Fuel Filter Element	40M298 Fuel Filter	Dayton	40M301	**40M301**
Fuel Filter Element	12F727 and 12F728 Fuel Filters	Dayton	12F734	**12F734**

Fuel Nozzles and Hoses

FILL-RITE LIQUIDYNAMICS Dayton

Drum Pump Nozzles—45NC01 to 45NC03 and 45NA99 are suitable for use in dispensing diesel exhaust fluid (DEF). All nozzles have a hang-up hook, except for 45NC01 to 45NC03, 1DLU2, and 1DLU4.

Fuel Nozzles—For use with electric fuel pumps and feature a heavy-duty, die-cast aluminum body.

Auto models have a thermoplastic and protective vinyl grip guard.

Manual 5URH3, 5URH4, and 5URH6 have a hose swivel at the inlet for greater maneuverability and ease of use. 40M288 and 40M289 have a digital meter which can measure fuel in gallons, liters, pints, and quarts.

- Include hang-up hook, except 45NC01 to 45NC03, 1DLU2, and 1DLU4.

Fuel Hose—Antistatic and can be used with gravity feed, electric- or hand-operated pumps to safely transfer flammable media.

- Max. pressure: 50 psi
- Temp. range: -22° to 130°F

Multi-Plane Hose Swivels—Permit the best flow rates and prevent fuel transfer hose from binding, twisting, and kinking during fueling.

10J823

22W965

2RB96

24UY36

Metered	Spout Connection Type	Inlet Size	Inlet Type	Wetted Materials	Max. Operating Pressure	Brand	Mfr. Model	Item No.
Drum Pump Nozzles								
Automatic Shut-Off								
No	Hose Barb	¾ in	BSP	Stainless Steel	50 psi	Fill-Rite	FRNS075A	**6XGW7**
No	Integral to Nozzle	¾ in	FNPT	Stainless Steel, Viton	120 psi	Liquidynamics Inc.	100389AG	**45NC01**
No	Integral to Nozzle	¾ in	Hose Barb	EPDM, Polypropylene, Stainless Steel	120 psi	Liquidynamics Inc.	100389PA	**45NC02**
Yes	Integral to Nozzle	¾ in	Hose Barb	EPDM, Polypropylene, Stainless Steel	120 psi	Liquidynamics Inc.	100398	**45NC03**
Manual Shut-Off								
No	Hose Barb	¾ in	Hose Barb	Polypropyene, Stainless Steel	50 psi	Fill-Rite	KITHA32VMN	**6XGV5**
No	Integral to Nozzle	¾ in	Hose Barb	EPDM, Polypropylene, Stainless Steel	120 psi	Liquidynamics Inc.	100389M	**45NA99**
No	Integral to Nozzle	1 in	Hose Barb	Aluminum, Nitrile Rubber	32 psi	Dayton	1DLU5	**1DLU5**
No	Integral to Nozzle	1 in	Hose Barb	Polypropylene, Viton	32 psi	Dayton	1DLU2	**1DLU2**
No	Integral to Nozzle	1 in	Hose Barb	PVDF, Viton	32 psi	Dayton	1DLU4	**1DLU4**

Application	Inlet	Outlet	L	Brand	Mfr. Model	Item No.
Fuel Nozzles						
Automatic Shut-Off						
Diesel	1 in FNPT	Steel	6 in	Dayton	10J823	**10J823**
Diesel and Gasoline	¾ in FNPT	Steel	7 in	Dayton	10J822	**10J822**
For Refined Petroleum Liquids	1 in FNPT	—	14 in	Fill-Rite	N100DAU13	**22W965**
For Refined Petroleum Liquids	¾ in FNPT	Unleaded Spout	14 in	Fill-Rite	N075UAU10	**4FY19**
For Transfer of Gasoline, Diesel, or Kerosene to Large Fuel Capacity Farm, Fleet, or Construction Equipment	1 in NPT	1 in	16 in	Fill-Rite	N100DAU12G	**45DV39**
Manual Shut-Off						
Diesel	1 in FNPT	Spout Length 6 5⁄16 in	14 in	Dayton	5URH6	**5URH6**
Diesel	1 in FNPT	Aluminum	16 5⁄16 in	Dayton	40M289	**40M289**
Diesel and Gasoline	¾ in FNPT	Aluminum	16 5⁄16 in	Dayton	40M288	**40M288**
Diesel and Gasoline	¾ in FNPT	Spout Length 6 5⁄16 in	14 in	Dayton	5URH4	**5URH4**
Diesel and Gasoline	¾ in FNPT	Spout Length 6 5⁄16 in	14 in	Dayton	5URH3	**5URH3**
For Refined Petroleum Liquids	1 in FNPT	Diesel/Leaded Spout	14 in	Fill-Rite	FRHMN100S	**3MMG9**
Refined Petroleum Liquids	¾ in FNPT	Unleaded Spout	14 in	Fill-Rite	FRHMN075S	**3MMC7**
Diesel Nozzles						
Automatic Shut-Off						
For most Agriculture, Construction, and Industry Fleet	¾ in NPT	—	14 in	Fill-Rite	N075DAU10	**8YJL1**

Dia.	L	Brand	Mfr. Model	Item No.
Hose with Static Wire				
¾ in	20 ft	Fill-Rite	FRH07520	**3MMN2**
1 in	20 ft	Fill-Rite	FRH10020	**3MMN4**
Fuel Hose				
¾ in	12 ft	Fill-Rite	FRH07512UL	**2RB96**
¾ in	12 ft	Dayton	12F731	**12F731**
1 in	12 ft	Dayton	12F732	**12F732**
1 in	14 ft	Fill-Rite	FRH10014	**2RB98**
—	12 ft	Fill-Rite	FRH10012UL	**24KJ12**
¾ in	12 ft	Fill-Rite	FRH07512	**2RB97**
Discharge Hose				
¾ in	96 in	Fill-Rite	KITHA32V	**6XGV3**

Description	Mfr. Model	Brand	Item No.
Breakaway Fittings & Hose Swivels			
Breakaway Fitting, 1¼ in, 1 ¼ in Dia.	B100F475	Fill-Rite	**48YA74**
Breakaway Fitting, ¾ in, ¾ in Dia.	B075F350	Fill-Rite	**48YA79**
Multi-Plane Hose Swivel, ¾ in NPT, 4 ½ in L	S075H1314	Fill-Rite	**24UY36**
Multi-Plane Hose Swivel, 1 in NPT, 5 in L	S100H1315	Fill-Rite	**24UY37**
Miscellaneous Accessories			
18 gpm Particulate Spin On Filter	F1810PM0	Fill-Rite	**4FY22**
18 gpm Hydrosorb Filter w/Head Kit	1210KTF7019	Fill-Rite	**3MMN6**
18 gpm Particulate Filter w/Head Kit	1200KTF7018	Fill-Rite	**4FY21**
40 gpm Particulate Spin On Filter, 10 Micron	F4010PM0	Fill-Rite	**3MMP3**
Filter Head, 1 in	700ACCF7017	Fill-Rite	**3MME1**
Suction Pipe,Telescoping Steel, 20 in x 34¾ in	1200KTG9099	Fill-Rite	**24KJ40**
Vent Cap with Base, 2 in	FRTCB	Fill-Rite	**24UY35**
Vented Replacement Cap	FRTC	Fill-Rite	**8EYE2**
Replacement Fuel Filter Canisters and Elements			
40 gpm Hydrosorb Spin On Filter, 30 Micron	F4030PM0	Fill-Rite	**4FY24**

For "How to Choose the Right Drum Pump," go to grainger.com/drumpump

3ACA4

Oil Change Pumps and Systems

Dayton

Self-priming and feature 4000 rpm thermally protected motors.

Pumps—Plastic pumps have flexible nitrile impellers and lip seals, to provide fluid transfer with no metal-to-metal contact. ¾" MGHT input/output ports. TEFC motors, except 3ACA4 is ODP.

Systems—Complete with 12VDC pump and suction and discharge tubing. 3ACA8 includes a 4-gal. container. 3ACA7 includes a 3½-gal. container.

Voltage	Amps	Cord Length (ft.)	L (in.)	W (in.)	H (in.)	GPM of Water @ 0 ft. of Head	Max. Head (ft.)	Suction Lift (ft.)	Max. Viscosity	Temp. Range (F)	Item No.
Pumps											
115V AC	2.0	10	6 ¾	4 ¾	3 ⅜	4 gpm	40	7.5	3000 SSU	185	**3ACA4**
12V DC	7.5	1	6	4 ¾	3 ⅛	4 gpm	40	7.5	3,000 SUS	185	**3ACA5**
12V DC	7.5	7 ⅘	7 ⅝	4 ¾	3 ⅛	4 gpm	40	7.5	3,000 SUS	185	**3ACA6**
Systems											
12V DC	7.5 A	7.8 ft	13 ⅜	8 ¾	21	4 gpm	40	7.5	3,000 SUS	185 °F	**3ACA8**
12V DC	7.5 A	7.8 ft	11 ¾	11 ¾	15 ¾	4 gpm	40	7.5	3,000 SUS	185 °F	**3ACA7**

12F735

5P233

Oil Pumps

Dayton FILL-RITE

DAYTON

Pumps have aluminum, cast-iron, nitrile butadiene rubber (NBR), nylon, polypropylene, PVC, steel, and zinc wetted parts for transfer of antifreeze, bulk oils, and hydraulic fluids. Internal bypass valve operates when discharge pressure exceeds bypass valve setting. Pumps can transfer viscous fluids at low temps. Thermally protected motor. Include bung, 8-ft. discharge hose with dispensing nozzle, 34" suction pipe, and 2" bung adapter for mounting pump on drums or tanks.

FILL-RITE

Diesel—An internal bypass valve prevents the motor from stalling when the pump is running and no liquid is being dispensed. With Buna N seals. 4RZJ4 is a portable pump that includes an inlet strainer, hose barbs, hose clamps, battery clips, in-line fuse, and polypropylene nozzle.

Transfer—Diaphragm pumps have polypropylene, stainless steel, and Philcon wetted parts for safe transfer of heavy industrial fluids and chemicals. Dual diaphragms optimize flow rate. Adjustable outlet port for easy installation. ¼-HP permanent magnet motors have thermal overload protection. For nonpotable water applications and particulate fluids to 1⁄10". Include 1" x 12-ft. Buna N hose, 1" manual nozzle, and telescoping suction pipe.

Note: Not for use with gasoline or fluids with a flash point of 100°F or less.

Diesel—An internal bypass valve prevents the motor from stalling when the pump is running and no liquid is being dispensed. With Buna N seals. 4RZJ4 is a portable pump that includes an inlet strainer, hose barbs, hose clamps, battery clips, in-line fuse, and polypropylene nozzle.

REBUILD KIT

Allows pump 4RZJ4 to be quickly and easily rebuilt and repaired in the field. Includes all vanes and seals.

Voltage	HP	Pump Design	Application	Hose Length	Nozzle Type	Self-Priming	GPM	Max. Viscosity	Includes	Mfr. Model	Item No.
Dayton											
115 V AC	½ hp	—	Antifreeze, Cutting Oils, Hydraulic Fluids, Liquid Soap, Non Flammable Oil Based Solvents, Oil based Herbicides, Oils, Synthetic Oils, Used Oil	—	—	Yes	4.0	—	Bung, Dispensing Nozzle, Hose, Suction Tube	12F735	**12F735**
110V AC	7⁄16	Centrifugal	Diesel, Kerosene, Mineral And Synthetic Oils, Heating Oils, Antifreeze, Water, Emulsions Etc.	8 ft	Manual	No	10.5 gpm	500 SUS	Discharge Hose, Hose Clamp, Nozzle, Pump, Suction Tube	6HKV3	**6HKV3**
Fill-Rite											
12V DC	⅕	Rotary Vane	Diesel and Light Oils	8 ft	Manual	Yes	10 gpm	50 SUS	¾ in Plastic Nozzle, 8 ft PVC Suction and Discharge Hoses, Inlet Strainer, 6 ft 12 Gauge 2 Wire Battery Cable with Clips and 30A Fuse, (2) Hose Barbs, and (4) Hose Clamps	FR1614	**4RZJ4**
12 V DC	¼ hp	Double Diaphragm	For Transferring Fluids Such As Ethylene Glycol, Diesel Fuel, Grease, Hydraulic Oil, Kerosene, Motor Oil, Water	12 ft.	Manual	Yes	13	3000 CP	1 in Manual Nozzle and Telescoping Suction Pipe, 1 in x12 Ft Buna hose	FR410B	**5P233**
115 V AC	¼ hp	Double Diaphragm	For Transferring Fluids Such As Ethylene Glycol, Diesel Fuel, Grease, Hydraulic Oil, Kerosene, Motor Oil, Water	12 ft.	Manual	Yes	13	3000 CP	1 in Manual Nozzle, 1 in x 12 ft Hose, 6 ft Power Cord with USA Plug, Telescoping Steel Suction Pipe	FR450B	**4FY18**

For Use With	Includes	Brand	Mfr. Model	Item No.
Rebuild Kit				
FR1614, FRSA120800, FRSD120800	Vanes and Seals	Fill-Rite	KITFR1612	**4RZJ6**

Basic Pump with Discharge Hose 19XH31

Grease Pump Operation Foot Pedal 15F220

Grease Pumps

WESTWARD Legacy LINCOLN ARO

Hand-operated pumps are used to manually transfer or dispense high-viscosity grease from containers, drums, or self-contained reservoirs. They have few moving parts which makes pumps simple to use and maintain. They don't need to be connected to a compressed air supply making them more portable than air-powered models. Grease pumps are commonly used on farms and construction sites.

Item	For Container Size	Max. Flow Rate	Brand	Item No.
Basic Pump with Discharge Hose				
Hand Operated Drum Pump	16 gal	2.8 oz per stroke	Westward	**19XH31**
	55 gal	2.8 oz per stroke	Westward	**19XH30**
Basic Pump with Spout				
Hand Operated Drum Pump	55 gal	2.8 oz per stroke	Westward	**19XH29**
	55 gal	8.70 oz per stroke	Westward	**19XH39**

Item	Fits Container Size	Volume per Stroke	Brand	Item No.
Grease Pump Operation Foot Pedal				
Grease Pump with Container	22 lb	0.07 oz	Westward	**15F220**
Grease Pump Operation Lever				
Grease Gun Filler Pump	35 lb 5 gal	2.13 oz	Legacy	**4ZT38**
Grease Pump	35 lb 5 gal	0.303 oz	Lincoln	**6Y859**
Grease Pump Operation Lever and Grease Gun				
Grease Pump	55 gal	1.9 oz	Aro	**53RJ81**

Electric Drum Pumps

Motor-driven devices are powered directly from an electrical outlet or by an internal rechargeable battery to draw fluids out of a container. They generate consistent flows at a higher rate than hand drum pumps while dispensing moderate to large amounts of fluid.

Acid, Base, and Solvent—Made with corrosion-resistant materials that withstand a range of acidic and basic chemical concentrations. They are used to dispense and transfer moderate to large volumes of substances and solutions in laboratories and chemical processing plants.

Agricultural—Typically run on DC voltage so they can be powered by farm equipment batteries for use in the field or where an electrical outlet is not available. They're commonly used when dispensing, transferring, and applying large amounts of agricultural chemicals in farming, gardening, and landscaping applications.

Automotive Fluids, Fuel, and Oil—For dispensing and transferring moderate to large volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil in automotive service and fleet maintenance. Pumps operate without generating sparks or may include a grounding kit to prevent the ignition of combustible vapors or liquids and allow use with fuels and other flammable fluids.

Diesel Exhaust Fluid (DEF) Electric Pump Carts—Combine a motor-driven pump and a wheeled frame for mobile dispensing and transferring of large volumes of DEF. Carts are used specifically with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system.

Diesel Exhaust Fluid (DEF) Stationary—Used specifically with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. These pumps are certified to ISO standards that regulate the handling, transportation, and storage of DEF. They are used for dispensing and transferring moderate to large volumes of DEF when servicing late model vehicles and SCR-based stationary industrial systems that operate on diesel fuel.

Food and Sanitary—Comply with specific sanitary standards of the food and drug industry to minimize the risk of product contamination. They are commonly used for dispensing and transferring moderate to large volumes of syrups, juices, oils, and soaps in food, beverage, and pharmaceuticals production.

General Purpose—Designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer moderate to large volumes of fluid in general manufacturing and processing applications where a specialized pump isn't needed. **3DYK2 and 3DYK3** are designed specifically for handling flammable liquids and come with a static protection kit and explosionproof motor.

Acid, Base & Solvent 5FZU5

Agricultural 6XGW4

Automotive Fluids, Fuel & Oil 38Y794

DEF Electric Pump Carts 45NA82

DEF Stationary 45NA86

Food & Sanitary 3PXJ9

General Purpose 3DYK2

Motor HP	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Suction Tube Length	Max. Fluid Temp.	Max Head	Brand	Item No.
Acid, Base & Solvent									
110VAC Basic Pump with Discharge Hose									
⅓ hp	55 gal	17 gpm	300 cps	316 SS, ETFE, FKM, PTFE	40 in	212 °F	20 ft	Finish Thomp.	**15R526**
⅓ hp	55 gal	17 gpm	300 cps	316 SS and PVC, FKM, PP, PTFE	40 in	150 °F	20 ft	Finish Thomp.	**5FZU5**
⅓ hp	55 gal	17 gpm	300 cps	316 SS and PVC, FKM, PP, PTFE, PVDF	40 in	160 °F	20 ft	Finish Thomp.	**5FZU7**
⅘ hp	55 gal	40 gpm	500 cps	316 SS and PVC, FKM, PP, PTFE, PVDF	40 in	160 °F	80 ft	Finish Thomp.	**5FZV1**
⅘ hp	55 gal	40 gpm	500 cps	Alloy 625 and PVC, FKM, PP, PTFE, PVDF	40 in	160 °F	80 ft	Finish Thomp.	**5FZV3**
⅘ hp	55 gal	40 gpm	500 cps	316 SS, FKM, PTFE, PVC	40 in	220 °F	80 ft	Finish Thomp.	**5FZV5**
⅘ hp	275 gal	40 gpm	500 cps	316 SS and PVC, FKM, PP, PTFE, PVDF	48 in	160 °F	80 ft	Finish Thomp.	**5FZV2**
⅘ hp	275 gal	40 gpm	500 cps	Alloy 625 and PVC, FKM, PP, PTFE, PVDF	48 in	160 °F	80 ft	Finish Thomp.	**5FZV4**
110VAC Metered Dispensing with Manual Shut-Off									
1 ⅒ hp	55 gal	13 gpm	300 cps	CG, CER, Halar, Hastelloy C-276, PP, PVC, PVDF, V	39 in	130 °F	36 ft	Dayton	**1DLR3**
110VAC Unmetered Dispensing with Manual Shut-Off									
1 ⅒ hp	55 gal	15 gpm	1,500 cps	CG, Hastelloy C-276, PP, PVC, V	39 in	130 °F	36 ft	Dayton	**1DLP8**
1 ⅒ hp	55 gal	15 gpm	1,500 cps	CG, Hastelloy C-276, Polyethylene, PP, PVDF, V	39 in	175 °F	36 ft	Dayton	**1DLR1**
1 hp	55 gal	32 gpm	1,500 cps	CG, CPVC, Hastelloy C-276, PP, PVC, PVDF, V	39 in	175 °F	36 ft	Dayton	**1DLP4**
220VAC Metered Dispensing with Manual Shut-Off									
1 ⅒ hp	55 gal	13 gpm	300 cps	CG, CER, Halar, Hastelloy C-276, PP, PVC, PVDF, V	39 in	130 °F	36 ft	Dayton	**1DLR4**
220VAC Unmetered Dispensing with Manual Shut-Off									
1 ⅒ hp	55 gal	15 gpm	1,500 cps	CG, CPVC, Hastelloy C-276, PP, PVC, PVDF, V	39 in	175 °F	36 ft	Dayton	**1DLP5**
Agricultural									
12VDC Basic Pump without Discharge Hose									
¼ hp	55 gal	13 gpm	3,000 cps	F, PP, SP, SS	—	130 °F	34 ft	Sotera	**6XGW4**
110VAC Basic Pump without Discharge Hose									
¼ hp	55 gal	13 gpm	3,000 cps	F, PP, SP, SS	—	130 °F	34 ft	Sotera	**6XGW2**
Automotive Fluids, Fuel & Oil									
12VDC Basic Pump with Discharge Hose									
	5 gal	1.4 gpm	500 cps	Polyacetal, PP, PVC,Polyethylene, Steel	15 in	140 °F	—	Dayton	**38Y794**
Diesel Exhaust Fluid (DEF) Electric Pump Carts									
110VAC Metered Dispensing with Automatic Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA82**
110VAC Metered Dispensing with Manual Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA83**
Diesel Exhaust Fluid (DEF) Stationary									
12VDC Metered Dispensing with Automatic Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA86**
12VDC Metered Dispensing with Manual Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA87**
110VAC Metered Dispensing with Automatic Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA78**
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA80**
1 ⅒ hp	55 gal	10 gpm	300 cps	CB, C, PP, PTFE, SS316	39 in	130 °F	72 ft	Dayton	**6GKR3**
1 ⅒ hp	275 gal	10 gpm	1,500 cps	CB, C, PP, PTFE, SS316	50 in	130 °F	72 ft	Dayton	**6GKR2**
110VAC Metered Dispensing with Manual Shut-Off									
⅒ hp	55 gal, 275 gal, 330 gal	8 gpm	10 cps	EPDM, PP, SS	48 in	104 °F	48 ft	Liquidynamics	**45NA79**
110VAC Unmetered Dispensing with Automatic Shut-Off									
⅓ hp	55 gal	5 gpm	300 cps	316 SS and EPDM, FKM, PP, PTFE	40 in	150 °F	20 ft	Finish Thomp.	**5FZU3**
⅘ hp	55 gal	10 gpm	500 cps	316 SS and EPDM, FKM, PP, PTFE, PVDF	40 in	160 °F	80 ft	Finish Thomp.	**5FZT9**
⅘ hp	275 gal	10 gpm	500 cps	316 SS and EPDM, FKM, PP, PTFE, PVDF	48 in	160 °F	80 ft	Finish Thomp.	**5FZU1**
1 ⅒ hp	55 gal	11 gpm	300 cps	CB, C, PP, PTFE, SS316	39 in	130 °F	72 ft	Dayton	**6GKR1**
1 ⅒ hp	275 gal	11 gpm	300 cps	CB, C, PP, PTFE, SS316	50 in	130 °F	72 ft	Dayton	**6GKR0**
Food & Sanitary									
110VAC Basic Pump without Discharge Hose									
1 ⅒ hp	55 gal	12 gpm	10,000 cps	316L SS, PTFE V, SC	39 in	175 °F	200 ft	Dayton	**1DLT1**
1 ⅒ hp	55 gal	35 gpm	1,000 cps	316L SS, PTFE	39 in	175 °F	36 ft	Dayton	**3PXJ9**
1 ⅒ hp	55 gal	35 gpm	1,000 cps	316L SS, PTFE	39 in	175 °F	92 ft	Dayton	**3PXK1**
220VAC Basic Pump without Discharge Hose									
1 ⅒ hp	55 gal	35 gpm	1,000 cps	316L SS, PTFE	39 in	175 °F	36 ft	Dayton	**3PXJ8**
General Purpose									
110VAC Basic Pump with Discharge Hose									
¼ hp	55 gal	7 gpm	400 cps	Brass, PTFE, SS	40 in	150 °F	10 ft	Finish Thomp.	**3DYK2**
¼ hp	55 gal	7 gpm	400 cps	Brass, PTFE, SS	48 in	150 °F	10 ft	Finish Thomp.	**3DYK3**
¼ hp	55 gal	10 gpm	400 cps	PTFE, SS	40 in	150 °F	10 ft	Finish Thomp.	**3DYK1**

** C = carbon, CB = carboblue, CER = ceramic, CG = carbon graphite, CPVC = chlorinated polyvinyl chloride, EPDM = ethylene propylene diene monomer rubber, ETFE = ethylene tetrafluoroethylene, F = fluorocarbon, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, SC = silicon carbide, SP = santoprene, SS = stainless steel, V = viton.*

Acid, Base & Solvent
53JU96

Automotive Fluids, Fuel & Oil
5UWG8

Diesel Exhaust Fluid
5FZU2

General Purpose
5UWG1

Pneumatic Drum Pumps

Allow more precise flow control than electric drum pumps and generate higher flow rates than hand drum pumps to dispense or transfer moderate to large amounts of fluid. They are powered by a compressed air supply to draw out fluids from a container and are suitable for use in facilities with air compressors or compressed air systems.

Acid, Base, and Solvent—Constructed of corrosion-resistant materials that withstand a range of acidic and basic chemical concentrations. Pumps are used to dispense and transfer moderate to large volumes of substances and solutions in laboratories and chemical processing plants. **3DYK4 and 3DYK5** are designed specifically for handling flammable liquids and come with a static protection kit.

Automotive Fluids, Fuel, and Oil—Suitable for dispensing and transferring moderate to large volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil. Sometimes called an air-operated oil transfer pump or a pneumatic fuel transfer pump, they are commonly used during automotive service and fleet maintenance to drain fuel tanks and remove spent fluids from vehicles and engine-powered machinery.

Diesel Exhaust Fluid (DEF)—For use with DEF to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. These pumps are certified to ISO standards that regulate the handling, transportation, and storage of DEF. They're typically used for dispensing and transferring moderate to large volumes of DEF when servicing late model trucks and SUVs as well as SCR-based stationary industrial systems that operate on diesel fuel.

General Purpose—Designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer moderate to large volumes of fluid in general manufacturing and processing applications where a specialized pump is not needed.

For Container Size	Max. Flow Rate	Air Inlet Size	Wetted Materials*	Includes	Suction Tube Length	Max. Viscosity	Max. Fluid Temp.	Max. Head	Brand	Item No.
Acid, Base & Solvent										
Basic Pump with Discharge Hose										
55 gal	12.5 gpm	¼ in FNPT	Santoprene	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	40 ½ in	15,000 cps	180 °F	231 ft.	Dayton	**53JU96**
	14.4 gpm	¼ in FNPT	PP, Polyurethane	10 ft EPDM Discharge Hose, Bung Adapter, Filter/Regulator	38 in	200 cps	—	—	Aro	**1ZRZ2**
	15 gpm	¼ in MNPT	316SS & PVC, FKM, PP, PTFE	Clamp, Hose, Motor, Pump	40 in	300 cps	150 °F	5 to 17 ft.	Finish Thompson	**5FZU6**
	15 gpm	¼ in MNPT	316 SS, ETFE, FKM, PTFE	Clamp, Hose, Motor, Pump	40 in	300 cps	212 °F	17 ft.	Finish Thompson	**15R527**
	15 gpm	¼ in MNPT	Alloy 625 & PVC, FKM, PP, PTFE, PVDF	Clamp, Hose, Motor, Pump	40 in	300 cps	160 °F	5 to 17 ft.	Finish Thompson	**5FZU8**
	15 gpm	¼ in FNPT	Hytrel	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	39 3⁄16 in	15,000 cps	225 °F	231 ft.	Dayton	**53JU98**
	16 gpm	¼ in MNPT	Alloy 625, CPVC, PTFE	Hose and Clamp, Motor	40 in	1,500 cps	150 °F	30 ft.	Finish Thompson	**3DYJ7**
	16 gpm	¼ in MNPT	Brass, PTFE, SS	Motor and Static Kit	40 in	2,000 cps	150 °F	10 ft.	Finish Thompson	**3DYK4**
	22 gpm	¼ in MNPT	Alloy 625, PP, PTFE, PVDF, Viton	Hose and Clamp, Motor	40 in	330 cps	160 °F	38 ft.	Finish Thompson	**3DYJ2**
	22 gpm	¼ in MNPT	Alloy 625, PTFE, PVDF, Viton	Hose and Clamp, Motor	40 in	330 cps	120 °F	38 ft.	Finish Thompson	**3DYJ5**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, SS, Viton	Hose and Clamp, Motor	40 in	330 cps	160 °F	38 ft.	Finish Thompson	**3DYH7**
	22 gpm	¼ in MNPT	PTFE, SS, Tefzel, Viton	Hose and Clamp, Motor	40 in	330 cps	220 °F	38 ft.	Finish Thompson	**3DYJ9**
275 gal	16 gpm	¼ in MNPT	Brass, PTFE, SS	Motor and Static Kit	40 in	2,000 cps	150 °F	10 ft.	Finish Thompson	**3DYK5**
	22 gpm	¼ in MNPT	Alloy 625, PP, PTFE, PVDF, Viton	Hose and Clamp, Motor	48 in	330 cps	160 °F	38 ft.	Finish Thompson	**3DYJ3**
	22 gpm	¼ in MNPT	PP, PTFE, PVDF, SS, Viton	Hose and Clamp, Motor	48 in	330 cps	160 °F	38 ft.	Finish Thompson	**3DYH8**
Basic Pump without Discharge Hose										
55 gal	4 gpm	¼ in FNPT	Carbon Steel, PTFE	—	33 11⁄16 in	1,000 cps	—	—	Aro	**3ZA80**
	4 gpm	¼ in FNPT	Carbon Steel, PTFE	3 in Diameter Air Motor, Suction Tube	11 23⁄32 in	4,000 cps	—	—	Aro	**3P961**
	4 gpm	¼ in FNPT	Polyethylene, SS	—	19 7⁄8 in	1,000 cps	—	—	Aro	**3ZA78**
	4 gpm	¼ in FNPT	PTFE, SS	—	33 11⁄16 in	1,000 cps	—	—	Aro	**3ZA79**
	10 gpm	⅜ in MNPT	PTFE, SS	Motor and Clamp	40 in	7,000 cps	200 °F	90 ft.	Finish Thompson	**3DYL1**
	11 gpm	⅜ in FNPT	Buna, PP	Air Filter/Regulator	29 7⁄16 in	1,000 cps	180 °F	—	Versa-Matic	**40XD28**
	11 gpm	⅜ in FNPT	PP, PTFE	Air Filter/Regulator	29 7⁄16 in	1,000 cps	180 °F	—	Versa-Matic	**40XD29**
	11 gpm	⅜ in FNPT	PP, Santoprene	Air Filter/Regulator	29 7⁄16 in	1,000 cps	180 °F	—	Versa-Matic	**40XD30**
	12 gpm	¼ in FNPT	316 SS, PTFE	—	39 39⁄64 in	200 cps	—	—	Aro	**1ZRZ4**
Automotive Fluids, Fuel & Oil										
Basic Pump without Discharge Hose										
55 gal	3.7 gpm	¼ in FNPT	Aluminum, Brass, Nitrile Rubber, Polyurethane, Steel, Turcite, Zinc	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37 ⅜ in	850 cps	140 °F	26 ft.	Dayton	**5UWG8**
	4.76 gpm	¼ in FNPT	Aluminum, Brass, Nitrile Rubber, Polyurethane, Steel, Turcite, Zinc	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37 in	1,750 cps	140 °F	26 ft.	Dayton	**4AYD6**
	9 gpm	¼ in FNPT	Buna, Carbon Steel	2 in Air Motor, 2 in Bung Adapter, Air Line Coupler, Connector and Needle Valve	34 ⅝ in	200 cps	—	—	Aro	**2P529**
	10.6 gpm	¼ in FNPT	Aluminum, Brass, Nitrile Rubber, Nylon, Polyurethane, Steel	Pump with Bung Adaptor, Nipple for Connecting Air Filter, Suction Tube	37 in	440 cps	140 °F	26 ft.	Dayton	**5UWG6**
	12 gpm	¼ in FNPT	Aluminum, Hytrel	Filter/Regulator	39 39⁄64 in	200 cps	—	—	Aro	**1ZRZ5**
Diesel Exhaust Fluid (DEF)										
Basic Pump with Discharge Hose										
55 gal	12.5 gpm	¼ in FNPT	PTFE	Ball Valve, Bung Adaptor Assembly, Dip Tube, Grounding Strap, Hose	39 3⁄16 in	15,000 cps	212 °F	231 ft.	Dayton	**53JU97**
	14.4 gpm	¼ in FNPT	PP, Santoprene	10 ft EPDM Discharge Hose, Bung Adapter, Filter/Regulator	38 in	200 cps	—	—	Aro	**1ZRZ3**
Unmetered Dispensing with Automatic Shut-Off										
55 gal	8 gpm	⅛ in FNPT	316SS, CarboBlue, Carbon, PP, PTFE	Pump Package	41 in	450 cps	130 °F	40 ft.	Dayton	**6GKR5**
	15 gpm	¼ in MNPT	316SS & EPDM, FKM, PP, PTFE	Clamp, Hose, Motor, Pump, S.S Automatic Nozzle, Sealed Adapter	40 in	300 cps	150 °F	5 to 17 ft.	Finish Thompson	**5FZU4**
	22 gpm	¼ in MNPT	316SS & EPDM, FKM, PP, PTFE, PVDF	Clamp, Hose, Motor, Pump, S.S Automatic Nozzle, Sealed Adapter	40 in	300 cps	160 °F	10 to 38 ft.	Finish Thompson	**5FZU0**
275 gal	8 gpm	⅛ in FNPT	316SS, CarboBlue, Carbon, PP, PTFE	Pump Package	53 in	450 cps	130 °F	40 ft.	Dayton	**6GKR4**
	22 gpm	¼ in MNPT	316SS & EPDM, FKM, PP, PTFE, PVDF	Clamp, Hose, Motor, Pump, S.S Automatic Nozzle, Sealed Adapter	48 in	300 cps	160 °F	10 to 38 ft.	Finish Thompson	**5FZU2**
General Purpose										
Basic Pump without Discharge Hose										
55 gal	10.6 gpm	¼ in FNPT	Aluminum, Nickel Plated Steel, Nitrile Rubber, SS, Zinc	2 in Bung Adapter	22 ½ in	1,500 cps	140 °F	10 ft.	Dayton	**5UWG1**

** CPVC = chlorinated polyvinyl chloride, ETFE = ethylene tetrafluoroethylene, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluoroethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, SS = stainless steel.*

Drum Pump Motors

Used to drive the impeller of a drum pump to draw fluids out of a container. Motors typically have a threaded connection on their base for attaching a drum pump tube to form a complete pump assembly. Commonly used to replace or upgrade an existing motor and can be paired with a compatible drum pump tube to allow one motor to be used with different container types or sizes.

General Purpose 1DLK6

General Purpose 5FZV6

Pneumatic 3DYN8

General Purpose Electric—Draw power directly from an electrical outlet or from an internal rechargeable battery to drive the impeller of a pump. They transfer a range of nonflammable fluids in everyday environments and deliver a steady supply of power for more consistent and accurate flow rates than pneumatic motors.

Pneumatic—Operate on a compressed air supply to drive the impeller of a pump and have less risk of ignition than general purpose electric motors so they can be used with a wider range of fluids. Their air-powered design provides precise control of motor torque and operates without straining or overloading an electrical system.

Nominal Voltage	Motor HP	Full Load Amps	Duty Cycle	Housing Material	Includes	Brand	Item No.
General Purpose Electric							
12V DC	⅛ hp	10.8 A	Continuous	Nylon	230V Charger, Wall Hanger	Finish Thompson	**40P656**
	⅛ hp	10.8 A	Continuous	Nylon	12V Car Charger	Finish Thompson	**40P657**
	⅛ hp	10.8 A	Continuous	Nylon	Cordless Motor and Battery Pack	Finish Thompson	**40P658**
110V AC	1 hp	8.5 A	Intermittent	Anodized Aluminum	—	Dayton	**1DLK8**
	1 hp	8.5 A	Intermittent	Plastic	—	Dayton	**1DLK6**
	⅓ hp	2 A	Continuous	Nylon	Cord & Plug, Motor	Finish Thompson	**5FZV6**
	⅘ hp	5.6 A	Continuous	Nylon	12 ft Power Cord, Motor, Plug	Finish Thompson	**5FZV8**
	⅘ hp	6.4 A	Intermittent	Plastic	—	Dayton	**5UWF1**
220V AC	1 hp	5 A	Intermittent	Anodized Aluminum	—	Dayton	**1DLK9**
	1 hp	5 A	Intermittent	Plastic	—	Dayton	**1DLK7**

Pneumatic 5UWF2

Motor HP	Air Consumption	Air Inlet Size	Motor RPM	Max. Air Pressure	Includes	Brand	Item No.
Pneumatic							
½	27 cfm	⅛ in FNPT	10,000 RPM	80 psi	—	Dayton	**11Z376**
	27 cfm @ 40 psi	¼ in MNPT	300 to 11,000	100 psi	Ball Valve, Muffler	Finish Thompson	**5FZV7**
	32 cfm @100 psi	¼ in MNPT	9,000 RPM	100 psi	Ball Valve, Muffler	Finish Thompson	**3DYN8**
¾	15 cfm	⅛ in FNPT	8,000 RPM	90 psi	Exhaust Muffler	Dayton	**5UWF2**

Drum Pump Tubes

Have a rigid intake shaft and an impeller for drawing fluid out of a container. Also called a barrel tube, these tubes attach to a pump motor and fit through the opening of a container to dip into the fluid within. The impeller rotates when driven by a pump motor to move fluid through the shaft and up to the outlet of the pump. Drum pump tubes can replace a damaged tube on an existing drum pump assembly or be paired with a separate motor to create a custom pump assembly. They can also be swapped out to adapt a drum pump for compatibility with different fluids.

316 Stainless Steel Suction Tube 15R523

Aluminum Suction Tube 53RU60

CPVC Suction Tube 1DLL1

Polypropylene Suction Tube 5FZU9

Suction Tube Length	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Max. Fluid Temp.	Brand	Item No.
316 Stainless Steel Suction Tube Material							
16 in	5 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212 °F	Finish Thompson	**15R523**
35 ½ in	55 gal	24 gpm	750 CPS	316 SS, Aluminum, PTFE	200 °F	Dayton	**5UWF5**
40 in	30 gal, 55 gal	10 gpm	15000 CPS	SS, PTFE	200 °F	Finish Thompson	**3DYN5**
40 in	30 gal, 55 gal	16 gpm	2000 CPS	SS, PTFE	150 °F	Finish Thompson	**3DYN2**
40 in	30 gal, 55 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212 °F	Finish Thompson	**15R524**
40 in	30 gal, 55 gal	40 gpm	2000 CPS	SS, PTFE, Tefzel, Viton	220 °F	Finish Thompson	**3DYL6**
48 in	55 gal, 275 gal	16 gpm	2000 CPS	SS, PTFE	150 °F	Finish Thompson	**3DYN3**
48 in	55 gal, 275 gal	17 gpm	300 CPS	316 SS, FKM, PTFE, ETFE	212 °F	Finish Thompson	**15R525**
Aluminum Suction Tube Material							
39 in	55 gal	35 gpm	1500 CPS	Aluminum, Carbon Graphite, PTFE, 316 SS	175 °F	Dayton	**53RU60**
47 in	275 gal	35 gpm	1500 CPS	Aluminum, Carbon, PTFE, 316 SS	175 °F	Dayton	**53RU61**
CPVC Suction Tube Material							
35 ½ in	55 gal	24 gpm	750 CPS	CPVC, Aluminum, Hastelloy C, PTFE, Viton	140 °F	Dayton	**5UWF4**
39 in	55 gal	35 gpm	1500 CPS	CPVC, Carbon Graphite, Hastelloy C-276, PTFE, PVDF	175 °F	Dayton	**1DLL1**
40 in	55 gal, 275 gal	16 gpm	2000 CPS	CPVC, PTFE, Alloy 625	150 °F	Finish Thompson	**3DYN4**
Kynar Suction Tube Material							
35 ½ in	55 gal	24 gpm	750 CPS	Kynar, Aluminum, Hastelloy C, PTFE	165 °F	Dayton	**5UWF6**
PVDF Suction Tube Material							
39 in	55 gal	35 gpm	1500 CPS	Carbon Graphite, Hastelloy C-276, PTFE, PVDF	175 °F	Dayton	**1DLL3**
40 in	30 gal, 55 gal	40 gpm	2000 CPS	PVDF, PTFE, Viton, Alloy 625	120 °F	Finish Thompson	**3DYL7**
48 in	55 gal, 275 gal	40 gpm	2000 CPS	PVDF, PTFE, Viton, Alloy 625	120 °F	Finish Thompson	**3DYL8**
Polypropylene Suction Tube Material							
16 in	5 gal	17 gpm	300 CPS	PP, FKM, PTFE, 316 SS	150 °F	Finish Thompson	**15R521**
16 in	5 gal	17 gpm	300 CPS	PP, PVDF, FKM, PTFE, ETFE, Alloy 625	150 °F	Finish Thompson	**15R522**
35 ½ in	55 gal	24 gpm	750 CPS	PP, Aluminum, Carpenter 20, PTFE, Viton	130 °F	Dayton	**5UWF3**
39 in	55 gal	35 gpm	1500 CPS	Carbon Graphite, Hasteloy C-276, PP, PTFE	130 °F	Dayton	**1DLL2**
40 in	30 gal, 55 gal	17 gpm	300 CPS	PP, PTFE, FKM, 316 SS	160 °F	Finish Thompson	**5FZU9**
40 in	30 gal, 55 gal	17 gpm	300 CPS	PP, PTFE, PVDF, FKM, Alloy 625	160 °F	Finish Thompson	**5FZV0**
40 in	30 gal, 55 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, Alloy 625	160 °F	Finish Thompson	**3DYL4**
40 in	30 gal, 55 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, SS,	160 °F	Finish Thompson	**3DYL2**
48 in	55 gal, 275 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, Alloy 625	160 °F	Finish Thompson	**3DYL5**
48 in	55 gal, 275 gal	40 gpm	2000 CPS	PP, PTFE, PVDF, Viton, SS,	160 °F	Finish Thompson	**3DYL3**

** C = carbon, CPVC = chlorinated polyvinyl chloride, ETFE = ethylene tetrafluoroethylene, FKM = fluoroelastomer, PP = polypropylene, PTFE = polytetrafluorethylene, PVDF = polyvinylidine difluoride, SS = stainless steel.*

Polypropylene Suction Tube 3DYL2

Description	Brand	Item No.
Accessories		
Suction Strainer	Dayton	**5UWF8**
Bung Adapter	Dayton	**5UWG0**
Drum Pump Nozzle	Dayton	**5UWF9**

General Purpose, Basic Pump with Discharge Hose
4P018

General Purpose, Basic Pump with Spout
5UWG4

General Purpose, Basic Pump with Spout
7P085

Cleaning, Basic Pump with Discharge Hose
494P32

Cleaning, Basic Pump with Spout
3KUL5

Food and Sanitary, Basic Pump with Discharge Hose
49XY67

Food & Sanitary, Basic Pump with Spout
21YL49

Diesel Exhaust Fluid, Basic Pump with Discharge Hose
4HA27

Diesel Exhaust Fluid, Basic Pump with Spout
38Y789

Hand Drum Pumps

Allow pumping where there's no access to a power source and ideal for dispensing and transferring small amounts of fluid. These manually powered devices, sometimes called a manual or rotary drum pump, are operated by a crank, lever, or other mechanism to draw fluids out of a container.

General Purpose—General purpose hand drum pumps are designed for water transfer and pumping fluids other than food, fuels, or corrosives. They're used to dispense and transfer small volumes of fluid in general manufacturing and processing applications where a specialized pump isn't needed.

Cleaning—Manually powered devices are operated by a lever or other mechanism to dispense and transfer small volumes of soap, detergent, degreaser, wax, or other cleaning solutions used in janitorial and sanitation. They allow pumping where there's no access to a power source and include an adapter that allows the shaft of the pump to be mounted through the bung hole of a drum or other container. Pumps are made of materials that withstand the potentially corrosive effects of cleaning products.

Food and Sanitary—Comply with specific sanitary standards of the food and drug industry to minimize the risk of product contamination. Also called food grade drum pumps, they allow pumping where there's no access to a power source. Pumps are typically used to dispense and transfer small volumes of syrups, juices, oils, and soaps in food, beverage, and pharmaceuticals production.

Diesel Exhaust Fluid (DEF)—Designed for use with Diesel Exhaust Fluid (DEF) to maintain purity when filling the reservoir of a diesel engine's Selective Catalytic Reduction (SCR) system. They can draw small volumes of DEF out of a container and allow pumping where there's no access to a power source. For use when servicing late model trucks and SUVs as well as SCR-based stationary industrial systems that operate on diesel fuel.

Automotive Fluids, Fuel & Oil—Manually operated by a crank, lever, or other mechanism they allow pumping where there's no access to a power source and can dispense and transfer small volumes of fluids such as diesel fuel, coolant, washer fluid, power steering fluid, transmission fluid, and engine oil. Pumps and are commonly used during automotive service and fleet maintenance to drain fuel tanks and remove spent fluids from vehicles and engine-powered machinery.

Acid, Base, and Solvent—Operated by a lever or other mechanism to dispense and transfer small volumes of substances and solutions in laboratories and chemical processing plants. They allow fluid transfer where there's no access to a power source. Pumps have corrosion-resistant construction that withstands a range of acidic and basic chemical concentrations.

Action Type	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Brand	Item No.
General Purpose						
Basic Pump with Discharge Hose						
Piston	55 gal	160 oz per stroke	1 cps	ABS, Buna-N	Rule	**4P018**
Basic Pump with Spout						
Piston	1 gal	1 oz per stroke	1,000 SUS	PE, PP	Dayton	**5UWG4**
Piston	1 gal, 5 gal	1 oz per stroke	1,000 SUS	PE, PP	Dayton	**5UWG3**
Piston	55 gal	22 oz per stroke	1,000 SUS	Cork, Nitrile, N, PTFE, SS, Viton	Dayton	**5UWH3**
Piston	55 gal	22 oz per stroke	1,000 SUS	Cork, Nitrile, PP, PTFE, SS, Viton	Dayton	**5UWH4**
Rotary	55 gal	10 gpm @ 120 strokes	2,000 SUS	and Buna Rubber, CI, S	Dayton	**7P071**
Rotary	55 gal	27 gpm @ 120 strokes	5,000 SUS	Cast AL, CI, NRB PE, S	Dayton	**7P085**
Cleaning						
Basic Pump with Discharge Hose						
Piston	15 gal, 30 gal, 55 gal	28 oz per stroke	1,500 SUS	PE, PVC	Action Pump	**494P32**
Piston	15 gal, 30 gal, 55 gal	28 oz per stroke	1,500 SUS	PE, PVC	Action Pump	**494P33**
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	8, 10 or 12 oz per stroke	1,000 cps	304 SS, PP, Viton	Action Pump	**3KUL5**
Lever	15 gal, 30 gal, 55 gal	8, 10 or 12 oz per stroke	1,000 cps	Carbon S, PP	Action Pump	**3KUL3**
Food and Sanitary						
Basic Pump with Discharge Hose						
Siphon	5 gal	2 oz per stroke	300 cps	PE, SS	—	**49XY75**
Siphon	15 gal, 30 gal, 55 gal	5 oz per stroke	420 cps	PE	—	**49XY67**
Basic Pump with Spout						
Lever	55 gal	10 oz per stroke	2,200 cps	PP, SS	—	**21YL49**
Piston	5 gal	16 oz per stroke	8,000 cps	PE, PP	—	**8AZV1**
Piston	55 gal	8 oz per stroke	8,000 cps	PE, PP	—	**8AZV4**
Piston	55 gal	15 oz per stroke	8,800 cps	PE, PP	Action Pump	**49XY73**
Diesel Exhaust Fluid (DEF)						
Basic Pump with Discharge Hose						
Lever	15 gal, 30 gal, 55 gal	17 oz per stroke	1,000 SUS	PT, PE, PP, PVC, Viton	Dayton	**5UWG7**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz per stroke	4,000 SUS	Glass, PVC, Viton	Dayton	**3BY43**
Piston	15 gal, 30 gal, 55 gal	22 oz per stroke	4,000 SUS	Glass, PVC, Viton	Dayton	**3BY44**
Piston	55 gal	5 gpm @ 120 strokes	500 SUS	PE, PP	Dayton	**4HA27**
Piston	55 gal	7 gpm @ 120 strokes	500 SUS	PE, PP	Dayton	**4HA28**
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	10 oz per stroke	1,500 SUS	Polyphenylene Sulfide, PVDF, SS	Dayton	**5XA54**
Lever	15 gal, 30 gal, 55 gal	10 oz per stroke	1,500 SUS	PVDF, SS	Dayton	**5XA55**
Lever	15 gal, 30 gal, 55 gal	12 oz per stroke	2,000 SUS	304 SS, PTFE	Dayton	**38Y792**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz per stroke	4,000 SUS	Glass, PVC, Viton	Dayton	**4HA32**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz per stroke	5,000 SUS	PTFE, PVDF, SS	Dayton	**4HA31**
Piston	15 gal, 30 gal, 55 gal	20 oz per stroke	2,000 SUS	PTFE, SS	Dayton	**3BY48**
Piston	15 gal, 30 gal, 55 gal	22 oz per stroke	4,000 SUS	Glass, PVC, Viton	Dayton	**4HA33**
Rotary	15 gal, 30 gal, 55 gal	8 oz per stroke	5,000 SUS	304 SS, Glass Filled PP, PTFE, Ryton	Dayton	**38Y790**
Rotary	15 gal, 30 gal, 55 gal	12 gpm @ 120 strokes	2,000 SUS	304 SS, PTFE, PVDF	Dayton	**38Y791**
Rotary	15 gal, 30 gal, 55 gal	12 gpm @ 120 strokes	2,000 SUS	304 SS, PTFE, PVDF	Dayton	**38Y793**
Siphon	5 gal	2 gpm @ 120 strokes	500 SUS	PE	Dayton	**38Y789**

** ABS = acrylonitrile butadiene styrene, AL = aluminum, BR = brass, EPDM = ethylene propylene diene monomer rubber, N = nylon, NBR = nitrile butadiene rubber, NR = nitrile rubber, NRB = nitrile Buna-N rubber, PE = polyethylene, POM = acetal, PP = polypropylene, PPCP = polypropylene co-polymer, PPS = polyphenylene sulfide, PT = polyacetal, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, S = steel, SS = stainless steel, TP = thermoplastic polyurethane.*

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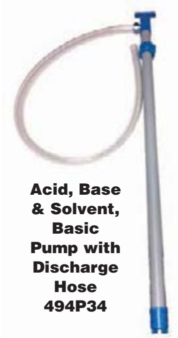
Hand Drum Pumps

Action Type	For Container Size	Max. Flow Rate	Max. Viscosity	Wetted Materials*	Brand	Item No.
Diesel Exhaust Fluid (DEF) (Cont.)						
Unmetered Dispensing with Automatic Shut-Off						
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	EPDM, PP, SS	Liquidynamics Inc.	**49XX26**
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	PE, SS, Viton	Liquidynamics Inc.	**48GP46**
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	PP, Viton	Liquidynamics Inc.	**52LC68**
Unmetered Dispensing with Manual Shut-Off						
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	EPDM, PP, SS	Liquidynamics Inc.	**49XX27**
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	PE, SS, Viton	Liquidynamics Inc.	**48GP47**
Lever	55 gal, 275 gal, 330 gal	10 oz per stroke	10 cps	PP, Viton	Liquidynamics Inc.	**52LC69**
Automotive Fluids, Fuel and Oil						
Basic Pump with Discharge Hose						
Lever	55 gal	4.4 gpm @ 120 strokes	1,680 SUS	PT, PVC, SS, Polyurethane	Dayton	**4AYD5**
Piston	1 L	0.14 oz per stroke	3,000 SUS	AL, Buna-N, Nitrile, PE, PVC, S	Dayton	**2UY12**
Piston	30 gal, 55 gal	3.3 oz per stroke	500 SUS	AL, BR, Buna-N, N, PP	Dayton	**5UWH0**
Piston	30 gal, 55 gal	8.5 oz per stroke	500 SUS	AL, BR, Buna-N, N, PP	Dayton	**5UWG9**
Rotary	15 gal	10 oz per stroke	900 cps	PTFE, Ryton, SS, Viton	Action Pump	**49XY79**
Rotary	15 gal	10 oz per stroke	900 cps	PTFE, Ryton, SS, Viton	Action Pump	**49XY76**
Siphon	15 gal, 30 gal, 55 gal	12 oz per Stroke	3,000 SUS	PE, PVC, Viton	Dayton	**2UY14**
Basic Pump with Spout						
Lever	15 gal, 30 gal, 55 gal	10 oz per stroke	700 cps	S, Viton	Dayton	**4AYD4**
Lever	15 gal, 30 gal, 55 gal	15 oz per stroke	4,000 SUS	Buna-N, Plated S, PE, PP, Zinc Alloy	Dayton	**3BY42**
Lever	15 gal, 30 gal, 55 gal	16 oz per stroke	1,500 SUS	AL, Buna-N, PE, S	Dayton	**4HA26**
Lever	55 gal	11 oz per stroke	50 SUS	Fluorocarbon, PP	Fill-Rite	**30J077**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz per stroke	4,000 SUS	PE, PP	Dayton	**3BY45**
Piston	5 gal, 15 gal, 30 gal, 55 gal	8 oz per stroke	5,000 SUS	PE, S	Dayton	**4HA30**
Piston	5 gal, 15 gal, 30 gal, 55 gal	16 oz per stroke	4,000 SUS	PE, PP	Dayton	**3BY46**
Piston	15 gal, 30 gal, 55 gal	20 oz per stroke	2,000 SUS	PE, S	Dayton	**3BY47**
Piston	55 gal	11 oz per stroke	50 SUS	Fluorocarbon, PP	Fill-Rite	**6XGV2**
Piston	55 gal	14 oz per stroke	8,000 SUS	N, PP, PTFE, SS	Dayton	**2RUK1**
Piston	55 gal	14 oz per stroke	8,000 SUS	PP, S, Viton	Dayton	**2RUJ9**
Piston	55 gal	25 oz per stroke	1,500 SUS	301 SS, AL, Buna-N, PTFE, Zinc Plated S	Fill-Rite	**3KUE7**
Rotary	15 gal, 30 gal, 55 gal	8 gpm @ 120 strokes	2,000 SUS	304 SS, PVDF	Dayton	**3BY41**
Rotary	15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2,000 SUS	POM, CI, Graphite, Buna-N, Paper, S	Dayton	**4VCR2**
Rotary	15 gal, 30 gal, 55 gal	15 gpm @ 120 strokes	2,000 SUS	Buna-N, CI, S	Dayton	**4HA38**
Hand Pump Only						
Rotary	5 gal, 15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2,000 SUS	Buna-N, CI, S	Dayton	**4HA34**
Rotary	5 gal, 15 gal, 30 gal, 55 gal	27 oz per stroke	1,500 SUS	Cast AL, CI, Buna-N, PE, S	Dayton	**4HA35**
Metered Dispensing with Manual Shut-Off						
Rotary	15 gal, 30 gal, 55 gal	10 gpm @ 120 strokes	2,000 SUS	POM, AL, Buthil Tereftalat, CI, Graphite, Buna-N, Paper, S	Dayton	**6HKV4**
Unmetered Dispensing with Manual Shut-Off						
Lever	15 gal, 30 gal, 55 gal	27 oz per stroke	1,500 SUS	AL, Buna-N, PT, SS, S	Dayton	**2RUK2**
Piston	5 gal	2 oz per stroke	5,000 SUS	AL, BR, N, PVC, Rubber, S	Dayton	**5XA53**
Piston	55 gal	25 oz per stroke	1,500 SUS	301 SS, AL, Buna-N, PTFE, Zinc Plated S	Fill-Rite	**1P892**
Rotary	55 gal	13 oz per stroke	1,500 SUS	301 SS, Buna-N, CI, Zinc Plated S	Fill-Rite	**1P893**
Rotary	55 gal	13 oz per stroke	1,500 SUS	301 SS, Buna-N, CI, Zinc Plated S	Fill-Rite	**4FY14**
Acid, Base and Solvent						
Basic Pump with Discharge Hose						
Piston	15 gal, 30 gal, 55 gal	28 oz per stroke	1,500 SUS	PVC	Action Pump	**494P34**
Piston	30 gal, 55 gal	28 oz per stroke	650 cps	PE, PVC	Action Pump	**6PFL1**
Piston	30 gal, 55 gal	36 oz per stroke	650 cps	PE, PVC	Action Pump	**6PFL0**
Siphon	15 gal, 30 gal, 55 gal	4 oz per stroke	1,000 SUS	PVC	Action Pump	**494P35**

Automotive Fluids, Fuel & Oil, Basic Pump with Discharge Hose 4AYD5

Automotive Fluids, Fuel & Oil, Basic Pump with Spout 4AYD4



Acid, Base & Solvent, Basic Pump with Discharge Hose 494P34

Acid, Base & Solvent Basic Pump with Discharge Hose 494P35

Item	Wetted Materials*	Brand	Item No.
General Purpose Hand Drum Pumps Accessories			
Bung Adapter	Polypropylene	Dayton	**1DLT4**
Fume Barrier	Polypropylene/Viton	Dayton	**1DLT6**
Suction Strainer	Polypropylene	Dayton	**1DLT8**
Suction Strainer	Kynar	Dayton	**1DLU1**
Quick Disconnect	Polypropylene	Dayton	**1DLU7**
Drum Pump Bracket	304SS	Dayton	**1DLU6**

** ABS = acrylonitrile butadiene styrene, AL = aluminum, BR = brass, EPDM = ethylene propylene diene monomer rubber, N = nylon, NBR = nitrile butadiene rubber, NR = nitrile rubber, NRB = nitrile Buna-N rubber, PE = polyethylene, POM = acetal, PP = polypropylene, PPCP = polypropylene co-polymer, PPS = polyphenylene sulfide, PT = polyacetal, PTFE = polytetrafluorethylene, PVC = polyvinyl chloride, PVDF = polyvinylidene fluoride, S = steel, SS = stainless steel, TP = thermoplastic polyurethane.*

Digital Hydronic Manometers

Meters help balance hydronic heating and cooling systems and check pump performance.

5LB25—Meter displays differential, high-side, and low-side pressures simultaneously, without having to change hose connections or instrument valve settings. Features a backlit display. Includes a carrying case, hose set, batteries, and an AC adapter.

5LB24—Has all the same features as No. 5LB25, plus displays volumetric flow when a Cv (Kv) factor is programmed. Up to 100 Cv (Kv) factors can be entered. Meter also calculates brake power, heat flow, Cv (Kv) factors, and impeller sizing. Stores up to 1000 data points for later recall or download to a PC using the USB interface. Also includes interface cable and software.

48GC43 to 48GC48—Feature a field-adjustable damping function that lets you choose the level of display averaging rate corresponding to the fluctuation level. Models also have a hold feature, visual and audible overpressure alarms, memory function that stores up to 40 readings, and a backlight that provides auxiliary illumination for low-light conditions.

5LB25

Pressure Range	Pressure Resolution	Pressure Accuracy	Operating Temp. Range	Flow Range (gpm)	Power Source	Battery Life	Brand	Mfr. Model	Item No.
+/-2068 kPa, +/-300 psi	0.001 psi, 0.01 kPa	±1% of rdg	4° to 45°C, 40° to 113°F	0 to 9999	4 AA Cell Batteries	Minimum 12 hrs.	TSI Alnor	HM 675	**5LB25**
								HM 685	**5LB24**
0 to 15 psi	0.01 psi	±0.5%	32° to 140°F	—	9V Alkaline Battery	100 hrs.	Dwyer	490A-1	**48GC43**
0 to 30 psi								490A-2	**48GC44**
0 to 50 psi								490A-3	**48GC45**
0 to 100 psi	0.1 psi							490A-4	**48GC46**
0 to 200 psi								490A-6	**48GC48**
0 to 500 psi								490A-5	**48GC47**

2ZY87

2A554

4YM31

2A551

2ZY89

3AY51

Madison
Sensing Solutions since 1959

Vertical-Mount Liquid Level Switches

These float switches mount in the top and/or bottom of a tank or vessel to actuate High/Low alarms, control relays, PLC's, or other low power devices. Encapsulated, magnetic dry contact reed switches can deliver more than 5 million switching cycles at rated electrical loads.

On select models, operation can be changed to be Normally Closed or Normally Open (dry, empty tank conditions) by removing and flipping the floats.

During installation, Adjustable Vertical models can be set lower by up to 2", or higher by up to 69".

Item	Tank Connection Size	VA Rating	Operating Temp. Range	Max. Pressure (psi)	Switch Function	Overall Length	Float Material	Float Length	Float Dia.	Stem Material	Stem Length	Mfr. Model	Item No.
Vertical Open Tank													
Drum Liquid Level Switch	¾ in NPT	30	221°F Max	150	Open On Rise	32.94 in	Buna N	1.25 in	0.9 in	Brass	32.0 in	M4168-2	**2ZY50**
		30	221°F Max	150	Selectable	32.94 in	Buna N	1.25 in	0.9 in	Brass	32.0 in	M4168-3	**2ZY51**
		30	302°F Max	150	Close On Rise	2.94 in	Stainless Steel	1.59 in	0.9 in	Stainless Steel	2.0 in	M4169-1	**2ZY52**
		30	302°F Max	150	Open On Rise	32.94 in	Stainless Steel	1.59 in	0.9 in	Stainless Steel	32.0 in	M4169-2	**2ZY53**
		30	302°F Max	150	Selectable	32.94 in	Stainless Steel	1.59 in	0.9 in	Stainless Steel	32.0 in	M4169-3	**2ZY54**
Liquid Level Switch	—	30	221°F Max	50	Open On Rise	4.06 in	Buna N	1.0 in	1.0 in	Brass	4.06 in	M3782	**11K183**
	⅛ in NPT	15	221°F Max	50	Open On Rise	1.85 in	Polypropylene	0.63 in	0.58 in	Polypropylene	1.25 in	M3326-NPT	**5DYC4**
		15	221°F Max	50	Close On Rise	1.85 in	Polypropylene	0.63 in	0.58 in	Polypropylene	1.25 in	M3326-NPT-NO	**5DYC3**
		15	221°F Max	100	Open On Rise	1.41 in	Polypropylene	0.44 in	0.78 in	Stainless Steel	0.75 in	M4035	**5DYC6**
		30	221°F Max	15	Selectable	2.25 in	Kynar	1.0 in	1.0 in	Kynar	1.63 in	M9000	**2ZY35**
		30	221°F Max	15	Selectable	2.25 in	Kynar	1.0 in	1.0 in	Kynar	1.63 in	MS9000	**2ZY45**
		30	221°F Max	100	Selectable	2.25 in	Polypropylene	1.0 in	1.0 in	Polypropylene	1.63 in	M8000	**2A554**
		30	221°F Max	100	Close On Rise	2.25 in	Polypropylene	1.0 in	1.0 in	Polypropylene	1.63 in	M8000-NO	**5DYC9**
		30	221°F Max	100	Selectable	2.25 in	Polypropylene	1.0 in	1.0 in	Polypropylene	1.63 in	MS8000	**2ZY43** ‡
		30	221°F Max	150	Selectable	2.25 in	Buna N	1.0 in	1.0 in	PBT	1.63 in	M7000	**4YM35**
		30	221°F Max	150	Selectable	2.25 in	Buna N	1.0 in	1.0 in	PBT	1.63 in	MS7000	**2ZY42** ‡
		30	392°F Max	300	Selectable	2.25 in	Stainless Steel	1.19 in	1.13 in	Stainless Steel	1.63 in	M5000	**4YM31**
	¼ in NPT	60	221°F Max	100	Selectable	3.38 in	Polypropylene	2.0 in	1.5 in	Polypropylene	2.63 in	M8800	**2A552**
		60	221°F Max	100	Selectable	3.38 in	Polypropylene	2.0 in	1.5 in	Polypropylene	2.63 in	MS8800	**2ZY44**
		60	221°F Max	150	Selectable	3.38 in	Buna N	2.0 in	1.25 in	Brass	2.63 in	M4300	**2A553**
		60	392°F Max	200	Selectable	3.38 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	2.63 in	M5600	**2A551** †
		60	482°F Max	200	Selectable	3.52 in	Stainless Steel	2.1 in	2.13 in	Stainless Steel	2.63 in	M5917	**2ZY27**
		60	482°F Max	200	Selectable	3.38 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	2.63 in	MS5917	**2ZY41** ‡
		100	221°F Max	100	Open On Rise	3.38 in	Polypropylene	2.0 in	1.5 in	Polypropylene	3.38 in	M8800-PR	**5DYD1**
		100	392°F Max	500	Selectable	3.38 in	Stainless Steel	2.0 in	2.0 in	Stainless Steel	2.63 in	M5600-PR	**4YM33**
	⅜ in -16 UNC	15	221°F Max	50	Open On Rise	1.85 in	Polypropylene	0.63 in	0.58 in	Polypropylene	1.25 in	M3326	**4YM29**
		15	221°F Max	50	Close On Rise	1.85 in	Polypropylene	0.63 in	0.58 in	Polypropylene	1.25 in	M3326-NO	**4YM30**
		30	221°F Max	100	Selectable	2.25 in	Polypropylene	1.0 in	1.0 in	Polypropylene	1.63 in	M8000B	**5DYC7**
	¾ in PVC Pipe	30	140°F Max	50	Open On Rise	1.99 in	Polypropylene	0.75 in	0.88 in	PVC	1.55 in	M8000-C	**2ZY91**
	2 in NPT	60	221°F Max	150	Selectable	12.0 in	Buna N	2.0 in	1.25 in	Brass	10.5 in	M4302-7807-1	**2ZY87**
		60	221°F Max	150	Selectable	72.0 in	Buna N	2.0 in	1.25 in	Brass	70.5 in	M4302-7807-6	**2ZY88**
		60	392°F Max	200	Selectable	12.0 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	10.5 in	M5602-7808-1	**2ZY89**
		60	392°F Max	200	Selectable	72.0 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	70.5 in	M5602-7808-6	**2ZY90**
Multi-Level Liquid Level Switch	¼ in NPT	30	221°F Max	100	Open On Rise	7.5 in	Polypropylene	1.0 in	1.0 in	Polypropylene	6.75 in	M8085	**3VU46**
	½ in NPT	60	392°F Max	200	Open On Rise	8.25 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	7.25 in	M5605	**3AY51**
	2 in NPT	60	221°F Max	100	Selectable	46 in	Polypropylene	2.0 in	1.5 in	Polypropylene	Adjustable	ML8888	**3VU49**
		60	221°F Max	150	Selectable	46 in	Buna N	2.0 in	1.25 in	Brass	Adjustable	ML4444	**3VU48**
		60	392°F Max	200	Selectable	46 in	Stainless Steel	2.0 in	2.13 in	Stainless Steel	Adjustable	ML5555	**3VU47**
Ultra Low Level Liquid Switch	⅛ in NPT	30	221°F Max	25	Open On Rise	2.25 in	Polypropylene	1.16 in	1.88 in	Polypropylene	1.63 in	M8000-ULL-NC	**2ZY74**
		30	221°F Max	25	Close On Rise	2.25 in	Polypropylene	1.16 in	1.88 in	Polypropylene	1.63 in	M8000-ULL-NO	**2ZY75**
		30	221°F Max	25	Open On Rise	2.25 in	Polypropylene	1.16 in	1.88 in	Stainless Steel	1.63 in	M8020-ULL-NC	**2ZY76**
		30	221°F Max	25	Close On Rise	2.25 in	Polypropylene	1.16 in	1.88 in	Stainless Steel	1.63 in	M8020-ULL-NO	**2ZY77**
		30	221°F Max	25	Close On Rise	2.25 in	Buna N	1.16 in	1.88 in	PBT	1.63 in	M7000-ULL-NO	**2ZY63**
		30	221°F Max	25	Open On Rise	2.25 in	Buna N	1.16 in	1.88 in	Stainless Steel	1.63 in	M4400-ULL-NC	**2ZY60**
		30	221°F Max	25	Close On Rise	2.25 in	Buna N	1.16 in	1.88 in	Stainless Steel	1.63 in	M4400-ULL-NO	**2ZY61**
		30	221°F Max	25	Close On Rise	2.25 in	Buna N	1.16 in	1.88 in	Brass	1.63 in	M4500-ULL-NO	**2ZY65**
Vertical													
Industrial Continuous Level Transmitter	—	—	—	100	—	20 22/25 in	Polypropylene	2 in	1 ½ in	316 Stainless Steel	18 ⅝ in	C4651-12802	**54JJ30**

† Rated explosion-resistant. ‡ Includes slosh shield.

11K185

11K187

2ZY80

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Sensing Solutions since 1959

Tethered-Mount Liquid Level Switches

Switches are designed to provide inexpensive, efficient, reliable level detection in large open vessels, water tanks, reservoirs, sumps, and ponds. A microswitch inside a molded polypropylene float detects fluid level change and generates a Start/Stop, Open/Close, or alarm actuation signal. Paddle-shape 2ZY80, oval-shape 11K185, and bulb-shape 11K187 and 11K188 have a contact rating of 16A at 250V. 6½-ft. cable, except 11K188 cable is 32½ ft. long.

VA Rating	Max. Liquid Temp.	Max. Pressure (psi)	Float Switch Contact Form	Overall Length (in.)	Float Material	Float Length (in.)	Float Dia. (in.)	Mfr. Model	Item No.
8A	158 °F	14.7	SPDT	5.63	Polypropylene	5.63	—	M4546	**11K185**
8A	158 °F	14.7	SPDT	6.5	Polypropylene	6.50	4	M4548	**11K187**
16A	—	14.7	SPDT	5.95	Polypropylene	5.95	—	M4189	**2ZY80**
16A	158 °F	14.7	SPDT	6.5	Polypropylene	6	4	M4549	**11K188**

Side-Mount Liquid Level Switches

Madison Sensing Solutions since 1959

These encapsulated, dry contact reed switches can deliver more than 5 million switching cycles at rated electrical loads, and are suitable for controlling relays, PLC's, or other low power devices. You can set switches for High or Low alarm points, or Pump Up to Pump Down operation when mounted into the side of a vessel or tank. Also can be mounted outside of a vessel or tank using an NPT coupling, or from the inside using a bulkhead fitting (UNC/UNF) and gasket. Models with dual NPT threads are indicated in the table with the mounting thread first (outside mount). Most switches can be set Normally Open or Normally Closed by rotating them 180°.

Tank Connection Size	VA Rating	Operating Temp. Range	Max. Pressure	Switch Function	Overall Length	Float Material	Float Length	Float Dia.	Stem Material	Stem Length	Mfr. Model	Item No.
⅛ in NPT	30	392°F Max.	50 psi	Close On Rise	5.12 in	Stainless Steel	1.0 in	1.54 in	Stainless Steel	2.74 in	M3827-3NO	**2ZY23**
⅛ in NPT	30	392°F Max.	50 psi	Open On Rise	5.12 in	Stainless Steel	1.0 in	1.54 in	Stainless Steel	3.5 in	M3827-3	**2ZY22**
¼ in x ½ in NPT	30	221°F Max.	100 psi	Selectable	3.7 in	Polypropylene	1.75 in	1.0 in	Polypropylene	2.75 in	M8710	**2ZY34**
¼ in x ½ in NPT	30	392°F Max.	300 psi	Selectable	4.6 in	Stainless Steel	2.0 in	0.63 in	Stainless Steel	4.6 in	M5910	**2ZY26** †
⅜ in - 16 UNC	15	221°F Max.	50 psi	Selectable	1.85 in	Polypropylene	0.63 in	0.58 in	Polypropylene	1.24 in	M3326-SM	**11K182**
⅜ in - 24 UNF	30	221°F Max.	100 psi	Selectable	2.96 in	Polypropylene	1.0 in	1.0 in	Stainless Steel	2.96 in	MS8010	**5DYD2**
⅜ in - 24 UNF	30	221°F Max.	150 psi	Selectable	2.96 in	Buna N	1.0 in	1.0 in	Brass	2.96 in	M4010	**2ZY24**
⅜ in - 24 UNF	30	392°F Max.	300 psi	Selectable	2.96 in	Stainless Steel	1.19 in	1.13 in	Stainless Steel	2.96 in	MS5010	**2ZY40** ‡
⅜ in - 24 UNF	30	392°F Max.	300 psi	Selectable	2.96 in	Stainless Steel	1.19 in	1.13 in	Stainless Steel	2.96 in	M5010	**4YM32**
½ in NPT	30	221°F Max.	100 psi	Selectable	2.75 in	Polypropylene	1.75 in	1.0 in	Polypropylene	2.75 in	M8750	**5DYC2**
½ in NPT	30	266°F Max.	100 psi	Selectable	2.75 in	PBT	2.11 in	0.65 in	PBT	2.75 in	M7750	**2ZY31**
½ in NPT	30	266°F Max.	100 psi	Selectable	2.75 in	PBT	2.11 in	0.65 in	PBT	2.75 in	M7725	**2ZY29** *
½ in NPT	30	392°F Max.	50 psi	Close On Rise	5.12 in	Stainless Steel	1.0 in	1.54 in	Stainless Steel	2.74 in	M3827-2NO	**2ZY21**
½ in NPT	30	392°F Max.	50 psi	Open On Rise	5.12 in	Stainless Steel	1.0 in	1.54 in	Stainless Steel	3.5 in	M3827-2	**2ZY20**
½ in x ¼ in NPT	30	392°F Max.	300 psi	Selectable	5.0 in	Stainless Steel	0.75 in	0.65 in	Stainless Steel	5.0 in	M3727	**5DYC8**
½ in x ½ in MNPT	30	221°F Max.	100 psi	Selectable	2.75 in	Polypropylene	2.11 in	0.65 in	Polypropylene	2.75 in	M8700	**2XC13**
½ in x ½ in NPT	30	266°F Max.	100 psi	Selectable	2.75 in	PBT	2.11 in	0.65 in	PBT	2.75 in	M7700	**4YM36**
½ in x ½ in NPT	30	221°F Max.	100 psi	Selectable	2.75 in	Kynar	2.11 in	0.65 in	Kynar	2.75 in	M9700	**2ZY36**
½ in x ½ in NPT	30	392°F Max.	300 psi	Selectable	4.6 in	Stainless Steel	0.75 in	0.13 in	Stainless Steel	4.6 in	M5920	**4YM34** †
½ in x ¾ in NPT	30	221°F Max.	100 psi	Selectable	2.25 in	Polypropylene	2.06 in	0.5 in	Polypropylene	2.25 in	M8700-C	**2ZY93**
½ in x 1 in NPT	30	221°F Max.	100 psi	Selectable	4.0 in	Kynar	2.11 in	0.65 in	Kynar	2.84 in	M9705	**2ZY37**
½ in x 1 in NPT	30	221°F Max.	100 psi	Selectable	4.0 in	Polypropylene	1.75 in	1.0 in	Polypropylene	2.96 in	M8705	**2ZY33** ‡
½ in x 1 in NPT	30	392°F Max.	300 psi	Selectable	4.6 in	Stainless Steel	2.0 in	0.63 in	Stainless Steel	4.6 in	M5900	**2ZY25** †
½ in - 13 UNC	30	392°F Max.	100 psi	Selectable	3.19 in	Stainless Steel	1.0 in	1.0 in	Stainless Steel	3.19 in	M5970	**2ZY28**
⅝ in - 11 UNC	30	221°F Max.	100 psi	Selectable	4.02 in	Polypropylene	1.75 in	1.0 in	Polypropylene	2.96 in	M8790	**4YM37**
⅝ in - 11 UNC	30	221°F Max.	100 psi	Selectable	4.02 in	Polypropylene	1.75 in	1.0 in	Polypropylene	3.31 in	M8790-14/4184	**2ZY83**
⅝ in - 11 UNC	30	266°F Max.	100 psi	Selectable	4.02 in	PBT	2.11 in	0.65 in	PBT	2.96 in	M7790	**2ZY32**
1 in NPT	100	221°F Max.	100 psi	Selectable	4.43 in	Buna N	3.0 in	0.92 in	Buna N	4.43 in	M4190-BU	**2ZY86**
1 in NPT	100	302°F Max.	150 psi	Selectable	5.81 in	Stainless Steel	4.0 in	1.0 in	Stainless Steel	5.81 in	M4190	**2ZY84**
1 in NPT	100	302°F Max.	900 psi	Selectable	3.98 in	Stainless Steel	2.04 in	2.04 in	Stainless Steel	3.98 in	M4190-HP	**2ZY85**
1½ in NPT	200	257°F Max.	100 psi	Selectable	5.5 in	Stainless Steel	3.0 in	1.5 in	Stainless Steel	5.5 in	M4065	**2ZY92**
—	60	221°F Max	100 psi	Selectable	3.89 in	Polypropylene	2.0 in	1.5 in	Polypropylene	2.5 in	MSB8800	**2ZY48** **

** ¼" spade connector. † Rated explosion-resistant. ‡ Includes slosh shield. **Vertical open tank mounting.*

Leak Detection and Alarm/Shutoff Systems

Madison Sensing Solutions since 1959

- Temp. range: 14° to 112°F

Initiate an audio alarm and automatically shut off water flow when leak is detected, except 11K230 and 11K231 have an audio alarm only. Excellent for dwellings that may be unoccupied for days or weeks. 120VAC, except 11K230 is 9VDC. All have a 12-ft. power cord and an 8-ft. sensor cord.

11K221 is for use with water tanks and water heater tanks. 11K230 and 11K231 are for use with beakers, dishwashers, frozen pipes, leaky drains, sinks, sump pumps, and tabletop containers.

Item	Pipe Size - Valves	Max. Pressure	No. of Sensors	Mfr. Model	Item No.
Water Heater Leak Detection and Alarm Shutoff System	¾ in	80 psi	1	RS-094-3/4	**11K221**
Detection and Alarm Shutoff System	½ in x ¾ in	80 psi	1	RS-090-E	**490W99**
Battery Operated Audible Water Alarm System	—	—	1	RS-095	**11K230**
Audible Water Alarm with Security System Tie In	—	—	1	RS-096	**11K231**

FLOWLINE

Level Controllers

12U422

- Temp. range: -40° to 149°F, except 12U422 is -40° to 158°F

Use with an ultrasonic or pressure level transmitter to provide the liquid level in a tank or sump container. Can provide local relay control, or transmit output signal to another device or controller. Easy-to-read display is simple to configure with push-button display module. Nonvolatile memory. LED display. ⅛ DIN panel mount, except 12U422 is 35mm DIN rail. Polycarbonate enclosure, except 12U422 is polypropylene. NEMA 4X (IP65) rated faceplate, except 12U422. Models include 4-20mA repeater, except 12U424.

No. of Digits	Source Voltage	Input	Contact Type	Relays	Std.	Mfr. Model	Item No.
4	120/240 V AC	—	SPDT	2	EN 50 022	LC52-1001	**12U422**
6	85 to 265V AC	115V AC	SPDT	6	508, CE, cULus, E160849, UL Listed	LI55-1001	**12U424**
	85 to 265V AC	115V AC	SPDT	2	508, CE, cULus, E160849, UL Listed	LI55-1211	**12U425**
	85 to 265V AC	115V AC	SPDT	4	508, CE, cULus, E160849, UL Listed	LI55-1411	**12U426**

36Y075

36Y076

36Y077

+GF+
Flow Transmitters

- Power input: 12 to 24VDC, regulated

Convert flow sensor signal into a 4-20mA signal for long-distance transmission. Great for flow control and monitoring, filtration or softener regeneration, and feed pump pulsing. RoHS compliant.

Description	Flow Range	Power Req.	Output Type	Mfr. Model	Item No.
Field-Mount	0 to 99999 gpm	12-32V DC	4/20mA	3-9900-1	**36Y074**
Panel-Mount				3-9900-1P	**36Y075**

Description	For Use With	Mfr. Model	Item No.
Angle Adapter	Mfr. No. 39900-1P	3-9900.396	**36Y078**
Battery Module Assembly		3-9900.393	**36Y076**
Mounting Kit		3-8050.	**36Y077**

5NFK7

5MXR7

5MXR8

+GF+
Battery-Powered Flow Totalizers

Digital display indicates flow rate and totalized flow volume simultaneously. Include 1 sensor input. Great for water treatment systems, filtration systems, and process flow monitoring. 5NFK7 and 5NFK8 feature display, adapter, and flow sensor. 5MXR7 and 5MXR8 are display-only units. 5MXR7 is field mounted; 5MXR8 is panel mounted.

Connec. Size	Flow Range	Power Req.	Mfr. Model	Item No.
½ in to 4 in	0.95 to 793 gpm	2 AA Size 3.6V Lithium Thionyl Chloride Batteries	3-8150-P0	**5NFK7**
½ in to 8 in	0 to 3000 gpm	3.6V Battery, AA (2)	3-8150-1	**5MXR7**
½ in to 8 in	0 to 3000 gpm	3.6V Battery, AA (2)	3-8150-1P	**5MXR8**
5 in to 8 in	62 to 3100 gpm	2 AA Size 3.6V Lithium Thionyl Chloride Batteries	3-8150-P1	**5NFK8**

5MXP5

33Z920

Flow Sensors

+GF+

5MXP5 and 5MXP6 have the widest range of flow rate and volume measurement in plastic pipes, from 1 gpm in ½" pipe to 3,100 gpm in 8" pipe. Open-cell rotor construction ensures linear, repeatable output up to 20 fps, with linearity of ±1% of full scale. 25-ft. cable is standard; transmits up to 200 ft. without amplification. Rated for 220°F at 25 psi, 70°F at 200 psi.

5MXP7 and 5MXP8 are great for low-flow or high electronic noise applications. Insertion-type paddlewheel sensor generates an open-collector (Hall effect) pulse output proportional to flow rate as low as 0.3 fps. Designed for systems ranging in size from ½" to 8", with max. velocity of 20 fps. Feature ±1% full-range linearity and ±0.5% repeatability.

Paddlewheel Repair Kits 33Z920 and 33Z921 include paddlewheel rotor, pin, and 2 O-rings.

Description	For Pipe Size	Flow Range	Std.	Mfr. Model	Item No.
Paddlewheel	2 in	0.95 to 793 gpm	CE, CUL, ROHS, UL	P51530-P0	**5MXP5**
		0.28 to 793 gpm		3-2536-P0	**5MXP7**
		62 to 1247 gpm		P51530-P1	**5MXP6**
	5 to 8 in	18 to 3118 gpm		3-2536-P1	**5MXP8**

Description	Type	Mfr. Model	Item No.
Paddlewheel Repair Kit	Red Cap	P51550-4	**33Z920**
	Blue Cap	3-2536.321-1	**33Z921**

Description	Max. Pressure	Mfr. Model	Item No.
Electronic Flowmeter Plug	180 psi @ 68°F	P31536	**5MXP9**

Insertion Tee
5MXT3

Clamp On Saddle
5MXU2

+GF+
Insertion Tees and 2-Pc. Clamp On Saddles

- Max. temp.: 140°F
- Schedule 80
- PVC construction

Insertion Tees feature a slip connection. Clamp On Saddles are 2-pc. and have a max. pressure of 180 psi and EPDM gasket material.

Pipe Size - Pipe	Fitting Length	Item No.
Insertion Tee		
½ in	14 in	**5MXT3**
¾ in	14 in	**5MXT4**
1 in	17 in	**5MXT5**
1½ in	24 in	**5MXT7**
2 in	24 in	**5MXT8**
3 in	24 in	**5MXU0**

Pipe Size - Pipe	Fitting Length	Item No.
Clamp On Saddles		
2 in	4 in	**5MXU2**
3 in	5 in	**5MXU4**
4 in	5 in	**5MXU5**
6 in	5 in	**5MXU6**
8 in	5 in	**5MXU7**

FLOWLINE

EchoPod Ultrasonic Level Sensors

12U415

- Max. pressure: 30 psi
- Temp. range: 20° to 140°F

Sensors measure liquid height in a specified range, then transfer data to an external device such as a controller, indicator, PLC, or telemetry device. Great for inventory control or process monitoring. Easy to configure—without the need for an input card—using free WebCal software and included USB key fob. Narrow 2" or 3" mounting band allows use in tight spaces. Input: 24VDC (loop), except 12-24VDC/AC for 12U418 and 12-28VDC for 12U419. Type 6P enclosure. Corrosion-resistant PVDF (polyvinylidene fluoride) material with Viton gasket and polycarbonate enclosure. FM Approved for U.S. and Canada. CE Certified. RoHS compliant.

Mounting	Range	Accuracy	Res.	Dead Band	Beam Width	Output	Mfr. Model	Item No.
1 in NPT	49.2 in	0.125 in	0.019 in	2 in	2 in	4 to 20mA, 2-Wire	DL10-01	**12U414**
	49.2 in	0.125 in	0.019 in	2 in	2 in	4 to 20mA and (4) SPST Relays	DL14-01	**12U415**
	9.8 ft	+/-0.2% of Range	0.039 in	4 in	2 in	4 to 20mA and (4) SPST Relays	DL24-01	**12U416**
	49.2 in	0.125 in	0.019 in	2 in	2 in	(4) SPST Relays	DS14-01	**12U418**
	49.2 in	0.125 in	0.019 in	2 in	2 in	0 to 10V or 976 to 2000Hz, 0 to 5V	DX10-01	**12U419**
2 in NPT	18 ft	+/-0.2% of Range	0.079 in	8 in	3 in	4 to 20mA and (4) SPST Relays	DL34-01	**12U417**

FLOWLINE

Multipoint Ultrasonic Level Switches

- Max. pressure: 30 psi
- Temp. range: -4° to 140°F
- Output: 4-20mA, 1 SPDT relay, 2 SPST (NO) relays

EchoSwitch general-purpose sensors provide continuous noncontact level detection up to 26.2 ft. (8m), with 3 programmable relays for level switch or control functions and 4-20mA signal output. The sensor is programmed by an integrated push-button display module. Each relay can be configured on a single set point (high or low level alarm) or latched on 2 set points for automatic fill/empty in simplex (1 pump or valve), duplex (2 pumps), or triplex (3 pumps) level control modes with selectable time delay and fail-safe logic. Embedded level controller can reduce costs by replacing external control hardware. Noncontact sensor is excellent for corrosive, sticky, or dirty liquids, and is broadly selected for pump lift station, sump, and dry tank level applications. CE Certified. RoHS compliant.

12U441

12U446

12U443

Mounting	Range	Input Voltage	Accuracy	Res.	Dead Band	Beam Width	Mfr. Model	Item No.
1 in NPT	9.8 ft	12 to 28V DC	+/-0.2% of Range	0.019 in	4 in	2 in	LU80-5101	**12U448**
	9.8 ft	95 to 250V AC	—	—	4 in	2 in	LU77-5004	**12U441**
2 in NPT	18 ft	14 to 28V DC	+/-0.2% of Range	0.039 in	8 in	3 in	LU81-5101	**12U446**
	18 ft	95 to 250V AC	—	—	8 in	3 in	LU74-5004	**12U442**
	26.2 ft	12 to 28V DC	+/-0.2% of Range	0.039 in	8 in	3 in	LU83-5101	**12U447**
	26.2 ft	95 to 250V AC	—	—	8 in	3 in	LU78-5004	**12U443**

EchoSonic Ultrasonic Level Sensors

FLOWLINE

- Max. pressure: 30 psi
- Temp. range: -4° to 140°F
- Output: 4-20mA, 2-wire

Automatic adaptive signal filters allow plug-and-play operation with optimized obstacle recognition and output signal filtering. General-purpose sensors have a corrosion-resistant polyvinylidene fluoride (PVDF) transducer with Viton gasket and NEMA 4x polycarbonate enclosure—good for corrosive, ultrapure, sticky, or dirty liquids. Included USB key fob simplifies configuration using free WebCal software. Automatic temperature compensation. FM Approved for U.S. and Canada. CE Certified. RoHS compliant.

12U437

Mounting	Range	Input Voltage	Accuracy	Res.	Dead Band	Beam Width	Mfr. Model	Item No.
1 in NPT	9.8 ft	24V DC (loop)	+/-0.2% of Range	0.019 in	4 in	2 in	LU27-01	**12U437**
2 in NPT	18 ft			0.039 in	8 in	3 in	LU23-01	**12U438**
	26.2 ft			0.079 in	8 in	3 in	LU28-01	**12U439**
	32.8 ft			0.079 in	8 in	3 in	LU29-01	**12U440**

FLOWLINE

Point Level Sensors

- Max. pressure: 150 psi at 77°F (25°C)
- Temp. range: -40° to 176°F (-40° to 80°C)
- Accuracy: ±1mm in water

Use in applications where single or multiple alarm activation points are required, such as in low-level reorder or high-level alarm. Sensors can detect dry or liquid at specific points inside a tank and signal an alarm or control a pump or valve. Compatible with controllers, devices, or PLCs that accept dry contact input. ¾" NPT. 12U435 has a failsafe feature that alerts when unit requires maintenance or replacement. 12U432 and 12U433 are rated intrinsically safe. Contact is SPST relay, except 12U434 is SPDT reed. Universal mounting for installation through top, side, or bottom of tank. Thermoplastic construction resists corrosion. Include 10-ft. cable.

12U430

Item	Repeatability	Material	Input Voltage	Contact Rating	Output	Std.	Mfr. Model	Item No.
Optic Leak Detector	+/-0.5mm in Water	Polypropylene	12-36V DC	60 VA, 1A max	4 or 20 mA or relay	CE	LO10-1305	**12U430**
Ultrasonic Level Switch	+/-0.5mm in Water	Polypropylene	12-32V DC	60 VA, 1A max	4 or 20 mA or relay	CE, CSA	LU10-1405	**12U432**
Ultrasonic Level Switch	+/-0.5mm in Water	PFA	12-32V DC	60 VA, 1A max	4 or 20 mA or relay	CE, CSA	LU10-2405	**12U433**
Vertical Buoyancy Switch	+/-1mm in Water	Polypropylene	120V AC/V DC	15 VA, 0.25A Max.	Reed	CE	LV10-1301	**12U434**
Vibration Level Switch	+/-0.5mm in Water	Ryton	12-36V DC	60 VA, 1A max	4 or 20 mA or relay	CE	LZ12-1405	**12U435**
Capacitance Level Switch	+/-0.5mm in Water	Polypropylene	12-36V DC	60 VA, 1A max	4 or 20 mA or relay	CE	LP15-1405	**12U436**

FLOWLINE

Level Indicator

General-purpose indicator requires no programming and can repeat the measured value, display the relay status, and the set point configuration of the attached sensor. Model features 6-digit LCD with 4 relay indicators and a panel mount enclosure. NEMA 4 (IP65) faceplate.

Type	No. of Digits	Source Voltage	Temp. Range	Relays	Encl. Material	Mfr. Model	Item No.
Local Display	6	24V DC	-4° to 140°F	4	Polycarbonate	LI40-1001	**49K028**

32ZN65

20YC29

61CV17

1YEF6

Dayton® FLOMEC® GREAT PLAINS INDUSTRIES GPI

Oval-Gear and Turbine Electric Flowmeters

- FNPT connection, except 60UC02, 60UA95 and 60UA99 are spigot, and 60UC06 and 60UC08 are flanged

Oval-gear flowmeters feature a rotating-gear design that can offer accurate readings of viscous liquids, water, oil and chemicals. **Turbine flowmeters** with totalizers can measure both rate and amount of flow.

32ZN69—Features resettable batch total and nonresettable batch totalizer. Not for use with fuel and oils.

36WJ95—Compact, positive-displacement meters measure batch, reset total, and nonreset total.

1YEF6 thru 1YEF9—Provide low-flow measurements with a resettable 4-digit electronic display. Mount horizontally or vertically in-line.

Type	For Pipe Size	Connec. Size	Fluid Temp. Range	Max. Pressure	Flow Range	Output Type	Power Req.	Max. Viscosity	Wetted Materials*	Accuracy (%)	Mfr. Model	Item No.
DAYTON Electronic Flowmeters												
Aluminum												
Oval-Gear	—	½"	7° to 131°F	1,000 psi	0.3 to 8 gpm	—	3V Lithium Ion Battery	9,400 SUS	A, AL, Nitrile Rubber, Steel	+/-0.5	32ZN65	**32ZN65**
Turbine	—	1"	—	—	1.3 to 32 gpm	—	—	43.5 SUS	—	+/-1	40M285	**40M285**
Nylon												
Turbine	—	1"	14° to 122°F	145 psi	1.3 to 32 gpm	—	(2) AAA 1.5V Batteries	40 SUS	AL, Polyamide	+/-1	32ZN69	**32ZN69**
FLOMEC Electronic Flowmeters												
316L Stainless Steel												
Oval-Gear	—	¼"	-4° to 250°F	495 psi	0.5 to 27 gph	Reed Switch and Hall Effect	Hall Effect 5/24V DC	4,600 SUS	316 SS, C, PTFE	0.5	OM006S513-222	**20YC30**
	—	⅛"	-4° to 250°F	495 psi	0.13 to 9.5 gph	Reed Switch and Hall Effect	Hall Effect 5/24V DC	4,600 SUS		0.5	OM004S513-222	**20YC29**
	—	⅜"	-4° to 250°F	495 psi	4 to 145 gph	Reed Switch and Hall Effect	Hall Effect 5/24V DC	4,600 SUS		0.5	OM008S513-222	**20YC31**
316 Stainless Steel												
Oval-Gear	1"	1"	-22° to 176°F	990 psi	2.6 to 40 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	CER, PTFE Encapsulated FKM, SS	+/- 0.5	OM025S003-822R5G	**61CV29**
	2"	2"	-22° to 176°F	550 psi	8 to 130 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	CER, PPS, PTFE Encapsulated FKM, SS	+/- 0.5	OM050S003-842R5G	**61CV33**
	½"	½"	-22° to 176°F	990 psi	0.26 to 10.6 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps		+/- 0.5	OM015S003-822R5G	**61CV23**
	½"	½"	-22° to 176°F	990 psi	0.26 to 10.6 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	316 SS, CER, PPS, PTFE Encapsulated FKM	+/- 0.5	OM015S513-822R5G	**61CV24**
	¼"	¼"	-22° to 176°F	495 psi	0.5 to 27 gph	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	316 SS, CER, PTFE Encapsulated FKM, SS	+/- 1.0	OM006S513-822R5G	**61CV20**
	⅛"	⅛"	-22° to 176°F	495 psi	0.26 to 9.5 gph	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	316 SS, CER, PPS, PTFE Encapsulated FKM	+/- 1.0	OM004S513-822R5G	**61CV18**
	⅜"	⅜"	-22° to 176°F	495 psi	4 to 145 gph	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	316 SS, CER, PTFE Encapsulated FKM, SS	+/- 1.0	OM008S513-822R5G	**61CV21**
Turbine	2"	2"	14° to 140°F	1,500 psi	20 to 200 gpm	—	2-AAA Alkaline Batteries	20 cps	316 SS, Alumina CER, PVDF, SS, WC	+/-0.75	G2S20NQ9GMB	**61CT78**
	1½"	1½"	14° to 140°F	1,500 psi	10 to 100 gpm	—	2-AAA Alkaline Batteries	20 cps		+/-0.75	G2S15NQ9GMB	**61CT77**
	½"	½"	14° to 140°F	1,500 psi	1 to 10 gpm	—	2-AAA Alkaline Batteries	20 cps		+/- 1.5	G2S05NQ9GMA	**61CT73**
	¾"	¾"	14° to 140°F	1,500 psi	2 to 20 gpm	—	2-AAA Alkaline Batteries	20 cps		+/- 1.0	G2S07NQ9GMA	**61CT74**
Aluminum												
Oval-Gear	—	½"	-4° to 250°F	990 psi	0.26 to 10.6 gpm	Reed Switch and Hall Effect	Hall Effect 5/24V DC	4,600 SUS	316 SS, AL, C, Viton	0.5	OM015A511-222	**20YC32**
	—	½"	23° to 131°F	1,500 psi	0.26 to 7.8 gpm	—	—	4,600 SUS	Alnico, AL, Buna, LCP, SS	+/-0.5	LM51DN	**36WJ95**
	1"	1"	-22° to 176°F	990 psi	2.6 to 40 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	AL, CER, FKM, PPS	+/- 0.5	OM025A001-822R5G	**61CV26**
	1"	1"	-22° to 176°F	990 psi	2.6 to 40 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	AL, CER, PTFE Encapsulated FKM, SS	+/- 0.5	OM025A513-822R5G	**61CV27**
	2"	2"	-22° to 176°F	285 psi	8 to 130 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	AL, CER, FKM, PPS	+/- 0.5	OM050A001-842R5G	**61CV32**
	1½"	1½"	-22° to 176°F	435 psi	4 to 66 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps		+/- 0.5	OM040A001-822R5G	**61CV30**
	¼"	¼"	-22° to 176°F	220 psi	0.5 to 27 gph	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	AL, CER, FKM, SS	+/- 1.0	OM006A511-822R5G	**61CV19**
	⅛"	⅛"	-22° to 176°F	220 psi	0.26 to 9.5 gph	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps		+/- 1.0	OM004A511-822R5G	**61CV17**
Turbine	—	1"	14° to 130°F	300 psi	3 to 30 gpm	—	AAA Batteries (2)	40 SUS	316 SS, AL, CER, Nylon, WC	+/-5	01A31GM	**1YEF6**
	—	1"	14° to 130°F	300 psi	10 to 100 lpm	—	AAA Batteries (2)	40 SUS		+/-5	01A31LM	**1YEF7**
	—	1"	14° to 140°F	300 psi	0.3 to 3 gpm	—	—	530 SUS	316 SS, AL, CER, Ferrite, Nylon, WC	+/-1.5	03A30GM	**13K554**
	—	2"	14° to 140°F	300 psi	30 to 300 gpm	—	—	530 SUS		+/-1.5	03A32GM	**13K556**
	1"	1"	14° to 140°F	300 psi	5 to 50 gpm	—	2-AAA Alkaline Batteries	20 cps	316 AL, Alumina CER, PVDF, SS, WC	+/- 1.0	G2A10NQ9GMA	**61CT66**
	2"	2"	14° to 140°F	300 psi	20 to 200 gpm	—	2-AAA Alkaline Batteries	20 cps		+/-0.75	G2A20NQ9GMB	**61CT68**
	½"	½"	14° to 140°F	300 psi	1 to 10 gpm	—	2-AAA Alkaline Batteries	20 cps		+/- 1.5	G2A05NQ9GMA	**61CT64**
Nylon												
Turbine	—	1"	14° to 130°F	150 psi	3 to 30 gpm	—	AAA Batteries (2)	40 SUS	316 SS, CER, Nylon, WC	+/-5	01N31GM	**1YEF8**
	—	1"	14° to 130°F	150 psi	10 to 100 lpm	—	AAA Batteries (2)	40 SUS		+/-5	01N31LM	**1YEF9**
PPS												
Oval-Gear	1"	1"	-22° to 176°F	990 psi	2.6 to 40 gpm	4-20 ma, Scaled pulse	8 to 24 V DC	1,000 cps	CER, PPS, PTFE Encapsulated FKM	+/- 0.5	OM025P003-822R5G	**61CV28**

** A = Acetal, AL = Aluminum, BR = Brass, C = Carbon, CER = Ceramic, PVDF = Polyvinylidine Difluoride, 316 SS = 316 Stainless Steel, SS = Stainless Steel, WC = Tungsten Carbide.*

CONTINUED

CONTINUED

1YEF8

61CV28

60UC02

Oval-Gear and Turbine Electric Flowmeters

Type	For Pipe Size	Connec. Size	Fluid Temp. Range	Max. Pressure	Flow Range	Output Type	Power Req.	Max. Viscosity	Wetted Materials*	Accuracy (%)	Mfr. Model	Item No.
FLOMEC Electronic Flowmeters (Cont.)												
PVC												
Turbine	2"	2"	32° to 140°F	225 psig	20 to 200 gpm	—	Two Alkaline AAA Batteries	20 cps	316 SS, Alumina CER, PVC, PVDF, WC	+/- 3	TM20SQ9GMB	**60UC02**
	2"	2"	32° to 140°F	225 psig	20 to 200 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM20NQ9GMB	**60UC03**
	3"	3"	32° to 140°F	225 psig	40 to 400 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM30NQ9GMD	**60UC05**
	3"	3"	32° to 140°F	225 psig	40 to 400 gpm	—	Two Alkaline AAA Batteries	20 cps	A, Ferrite, PEEK, PVC, SS	+/- 3	TM30FQ9GME	**60UC06**
	4"	4"	32° to 140°F	225 psig	60 to 600 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM40NQ9GME	**60UC08**
	1½"	1½"	32° to 140°F	225 psig	10 to 100 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM15SQ9GMB	**60UA99**
	1½"	1½"	32° to 140°F	225 psig	10 to 100 gpm	—	Two Alkaline AAA Batteries	20 cps	316 SS, Alumina CER, PVC, PVDF, WC	+/- 3	TM15NQ9GMB	**60UC01**
	½"	½"	32° to 140°F	225 psig	1 to 10 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM05NQ9GMA	**60UA94**
	¾"	¾"	32° to 140°F	225 psig	2 to 20 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM07SQ9GMA	**60UA95**
	¾"	¾"	32° to 140°F	225 psig	2 to 20 gpm	—	Two Alkaline AAA Batteries	20 cps		+/- 3	TM07NQ9GMA	**60UA96**

Description	Mfr. Model	Brand	Item No.
Turbine Flowmeter Accessories			
Battery Kit Power Source, 2 Batteries for G2 Meters	113520-1	Gpi	**1YEC4**
Pulse Access Module, for TM, G2, A1 meters	125060-10	Flomec	**60UA74**

** A = Acetal, AL = Aluminum, BR = Brass, C = Carbon, CER = Ceramic, PVDF = Polyvinylidine Difluoride, 316 SS = 316 Stainless Steel, SS = Stainless Steel, WC = Tungsten Carbide.*

Oval-Gear Mechanical Flowmeter

- FNPT connection

Rotating-gear design offers accurate low-flow readings while the aluminum housing is ideal for petroleum products. For fuel-dispensing pumps and industrial flow measurement. The self-contained unit can be field serviced. The 8 digit to 3 decimal point display can provide batch total (resettable), accumulative (non-resettable), and rate of flow.

For Pipe Size	Connec. Size	Fitting	Fluid Temp. Range	Max. Pressure	Flow Range	Max. Viscosity	Wetted Materials	Accuracy (%)	Mfr. Model	Item No.
—	1"	—	-4° to 250°F	580 psi	2.6 to 40 gpm	4,600 SUS	Aluminum, PPS, Viton	1	OM025A001-820M4	**20YC37**

6NZR9

6PZU1

Turbine Flowmeters and Accessories

Flowmeters—Rugged construction features tungsten carbide rotor shaft for demanding industrial applications. Compatible with low viscosity fluids and water. Wetted materials: 316 stainless steel and tungsten carbide. For pipelines, production/injection fields, and mining. CSA Certified. For Blancett 3A/Sanitary turbines, go to Grainger.com. **Quiksert Flowmeters—**Designed with wear-resistant moving parts to provide trouble-free operation and long service life.

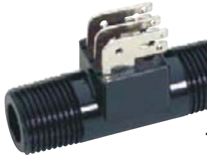
- Fluid temp. range: -150° to 350°F
- Accuracy: ±1% of reading

Monitor Displays—Allow greater control of your flow operations and feature advanced connectivity design that lets you connect meters to your network for remote monitoring and for process automation capabilities.

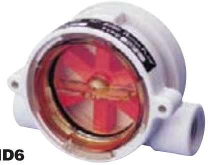
Accessories—Repair Kits are designed for easy field repair of damaged flowmeters; no need to replace the entire unit. Kits are factory calibrated to help provide accurate output.

For Pipe Size	Connec. Size	Max. Pressure	Flow Range	Max. Viscosity	Mfr. Model	Item No.
Flowmeters						
316 Stainless Steel						
⅜"	½"	5,000 psi	0.6 to 3 gpm	150 SUS	B110-375-1/2	**6NZR9**
	1"	5,000 psi	0.6 to 3 gpm	150 SUS	B110-375	**6NZT2**
½"	½"	5,000 psi	0.75 to 7.5 gpm	150 SUS	B110-500-1/2	**6NZT0**
	1"	5,000 psi	0.75 to 7.5 gpm	150 SUS	B110-500	**6NZT3**
¾"	½"	5,000 psi	2 to 15 gpm	150 SUS	B110-750-1/2	**6NZT1**
	1"	5,000 psi	2 to 15 gpm	150 SUS	B110-750	**6NZT4**
⅞"	1"	5,000 psi	3 to 30 gpm	150 SUS	B110-875	**6NZT5**
1"	1"	5,000 psi	5 to 50 gpm	150 SUS	B111-110	**6NZT6**
1½"	1½"	5,000 psi	15 to 180 gpm	150 SUS	B111-115	**6NZT7**
	2"	5,000 psi	15 to 180 gpm	150 SUS	B111-121	**6NZT8**
2"	2"	5,000 psi	40 to 400 gpm	150 SUS	B111-120	**6NZT9**
Quicksert Flowmeters						
316L Stainless Steel						
1"	2"	3,705 psi	5 to 50 gpm	150 SUS	B132-100	**6NZU0**
1½"	3"	3,705 psi	15 to 180 gpm	150 SUS	B132-150	**6NZU1**
2"	2"	3,705 psi	40 to 400 gpm	150 SUS	B132-200	**6NZU2**
3"	3"	3,705 psi	60 to 600 gpm	150 SUS	B133-300	**6NZU3**

Item	For Use With	Mfr. Model	Item No.
Monitor Displays (Required)			
Advanced Flow Monitor Display	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B30AM-CS	**6PZU1**
	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU9, 6NZV0 thru 6NZV2	B30AR-CS	**6PZU3**
Basic Flow Monitor Display	6NTZ5, 6NTZ6, 6NTZ7, 6NTZ8, 6NZV1, 6NZV2, B110-750, B111-120, B132-100, B132-150, B132-200, B133-300, B16C-003A-0BA, B16C-005A-0BA, B16C-007A-0BA, B16C-105A-0BA, B16C-107A-0BA, B16C-108A-0BA, B16C-110A-0BA	B30BR-CS	**6PZU2**
	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B30BM-CS	**6PZU0**
Accessories			
Cable 10 ft.	6NZT4 thru 6NZT9, 6NZU0 thru 6NZU3	B220-221	**6PZU4**
Turbine Flowmeter Meter Repair Kits	6NZR9, 6NZT2	B251-102	**6NZV8**
	6NZT0, 6NZT3	B251-105	**6NZV9**
	6NZT1, 6NZT4	B251-108	**6NZW0**
	6NZT5	B251-109	**6NZW1**
	6NZT6	B251-112	**6NZW2**
	6NZT7, 6NZT8	B251-116	**6NZW3**
	6NZT9	B251-120	**6PZT9**
	6NZU0	B253-212	**6NZV4**
	6NZU1	B253-216	**6NZV5**
	6NZU2	B253-220	**6NZV6**
	6NZU3	B253-330	**6NZV7**



1ALZ1



1AMD6

Flow Sensors, Monitors, and Indicators

TURBINE FLOW SENSORS, FT-110, FT-210, AND FT-330 SERIES

- Max. pressure: 200 psi
- Max. operating temp.: 212°F nylon, 176°F Noryl
- 0.5% repeatability, except ±5% 19H256
- 24V max.
- 3-ft. cable
- Can replace dispensing timer systems

FT-330 Series— Designed for water and beverage dispensing applications.

- NSF 61 listed

FLOW RATE MONITORS, RFO SERIES

- Max. operating temp.: 180°F polypropylene case, 212°F brass case
- Compact panel-mount housing

High-visibility rotors and solid-state electronics provide visual confirmation of accurate flow rate pulsed output for water purification/dispensing systems and coolant systems. ¼" and ½" units include low-flow adapters for 0.1 to 1.0 and 1.5 to 12 gpm ranges, respectively. Max. viscosity: 200 SSU.

FLOW INDICATORS, RFI SERIES

- Max. operating temp.: 180°F polypropylene body, 212°F brass body
- Either port may be used for incoming flow

Bright orange rotor provides simple, direct visual flow confirmation on heat exchangers and plastic injection molding equipment. Remove bayonet mounting lens for quick cleanout. Low-flow adapter included. Max. viscosity: 200 SSU.

Compact, economical sensors for OEM applications that require low-flow liquid monitoring. These hall-effect turbine sensors provide accurate pulsed-output metering despite changes in system pressure caused by aging filters. Standard power and output specifications allow retrofitting to existing controllers. Max. viscosity: 32 to 81 SSU, except 32 to 70 SSU for FT-210 19H256.

Connec. Size (in.)	Pulses per Gal.	Flow Range (gpm)	Operating Temp. Range (°F)	Accuracy (%)	CABLE Item No.	SPADE TERMINALS Item No.
Sensors, FT-110 Series, Nylon 12 Housing						
⅜ MNPT	26,100 pulses/gal	0.13 to 1.3	212°F	±3	—	**1ALZ1**
	17,400 pulses/gal	0.13 to 2.0			**1ALZ8**	**1ALZ3**
	12,500 pulses/gal	0.26 to 2.7			**1ALZ7**	**1ALZ2**
	8,300 pulses/gal	0.26 to 4.0			**1ALZ9**	**1ALZ4**
	3,800 pulses/gal	0.26 to 6.6			**1AMB1**	**1ALZ5**
	26,200 pulses/gal	0.13 to 1.3			**1ALZ6**	—
Sensors, FT-210 Series, Nylon 12 Housing						
¼ MNPT	83,200 pulses/gal	0.026 to 0.65	-4°F to 212°F	±3	—	**19H256**
Sensors, FT-330 Series, Noryl Housing						
⅜ MNPT	4,994 pulses/gal	0.4 to 4.0	-4° to 176°F	+/-2	**4ARL1**	—
	10,313 pulses/gal	0.2 to 2.0			**4ARK9**	—

Connec. Size	Max. Volts	Pulses per Gal.	Flow Range	Accuracy (%)	PP CASE AND FITTING, BUNA N O-RING‡ Item No.	BRASS CASE AND FITTING, VITONO-RINGS‡ Item No.
Monitors, RFO Series, Max. psi* 100PP, 200 Brass						
¼ in	24	2,200 pulses/gal	0.5 to 5 gpm	+/-7	**1AMB8**	**1AMD1**
½ in	24	610 pulses/gal	4 to 20 gpm	+/-15	**1AMB9** †	**1AMD2** †
¾ in	24	366 pulses/gal	5 to 30 gpm	+/-10	—	**1AMD3**
1 in	24	178 pulses/gal	8 to 60 gpm	+/-15	—	**1AMD4**
Indicators, RFI Series, Max. psi* 100PP, 200 Brass						
¼ in	—	—	0.5 to 5 gpm	—	**1AMD5**	**1AMD7**
½ in	—	—	4 to 20 gpm	—	**1AMD6**	**1AMD8**
¾ in	—	—	5 to 30 gpm	—	—	**1AMD9**
1 in	—	—	8 to 60 gpm	—	—	**1AME1**

Item	For Use With	Item No.
Accessory		
DIN Connector With Cable and Pull-up Resistor	19H256	**19H257**

** Pressure limit stated for 70°F, and is lower at higher temperatures. † Accuracy is ±7% when using the low-flow adapter. ‡ See optional Rate Meter/Totalizer 1MEW7 on Grainger.com.*

29FJ90

20CL49

29FJ96

Engineered Polymer and Lead-Free Brass Flowmeters

Badger Meter

- Fluid temp. range: 32° to 80°F
- Max. pressure: 150 psi
- Accuracy: ±1.5%
- Mechanical dial display

Use to measure water flow in residential and commercial potable water systems, medical systems, desalinization equipment, and in water treatment and distribution systems.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Wetted Materials	Includes	Mfr. Model	Item No.
Disc Series Engineered Polymer Housing							
½ in	⅝ in	NPT	0.5 to 25 gpm	BZ, Noryl, Nylon, Polyethylene, SAN	Local Register	M25-750PNPB-RA-GAXX	**29FJ90**
Disc Series NSF 61 Low Lead Brass Housing							
½ in	⅝ in	NPT	0.5 to 25 gpm	BZ, Noryl, Nylon, Polyethylene, SAN		M25-625LNPA-RA-GAXX	**29FJ91**
¾ in	¾ in	NPT	0.5 to 25 gpm	Thermal Plastic	Local Transmitter Register	M25-750LNPB-TS-GAXX	**20CL48**
	¾ in	NPT	0.75 to 35 gpm	BZ, Noryl, Nylon, Polyethylene, SAN		M35-751LNPB-TS-GAXX	**20CL49**
	¾ in	NPT	0.75 to 35 gpm		Local Register	M35-751LNPB-RA-GAXX	**29FJ92**
1 in	1 in	NPT	1.25 to 70 gpm	Bronze, Nylon, Stainless Steel, Thermal Plastic		M70-100LNPC-RA-GAXX	**29FJ93**
	1 in	NPT	1.25 to 70 gpm	BZ, Noryl, Nylon, Polyethylene, SAN	Local Transmitter Register	M70-100LNPC-TS-GAXX	**20CL50**
1½ in	1 ½ in	Flange	2.5 to 120 gpm			M120-150LNSF-TS-GAXX	**20CL51**
	1 ½ in	NPT	2.5 to 120 gpm		Local Register	M120-150LNSF-RA-GAXX	**29FJ94**
2 in	2 in	Flange	2.5 to 170 gpm		Local Transmitter Register	M170-200LNSG-TS-GAXX	**20CL52**
	2 in	NPT	2.5 to 170 gpm		Local Register	M170-200LNSG-RA-GAXX	**29FJ95**
Turbo Series NSF 61 Low Lead Brass Housing							
3 in	3 in	Flange	5 to 550 gpm	Bronze, Stainless Steel, Thermal Plastic	Local Transmitter Register	RT-0300BRNPNSX-TS-GAXX	**29FJ96**
4 in	4 in	Flange	10 to 1250 gpm	Ceramic, Lead Free Alloy, Passivated 316 Stainless Steel, Thermoplastic		RT-0400BRNPNSX-TS-GAXX	**29FJ97**
6 in	6 in	Flange	20 to 2500 gpm			RT-0600BRNPNSX-TS-GAXX	**29FJ98**
8 in	8 in	Flange	30 to 4500 gpm	Bronze, Stainless Steel, Thermal Plastic		RT-0800BRWPNSX-TS-GAXX	**29FJ99**
10 in	10 in	Flange	50 to 7000 gpm			RT-1000BRNPNSX-TS-GAXX	**29FK01**

PULSAFEEDER

Lead-Free Brass Inline Flowmeters

22UM71

- Fluid temp. range: 35° to 105°F
- Max. pressure: 150 psi
- Accuracy: ±1.5%
- 6-digit display, except 22UM64 is 5-digit

Mechanical flowmeters feature a multi-jet chamber to help assure accuracy over a wide range of flows with low head loss. The load is equally distributed on the impeller to help prevent wear and maintain accuracy. Ideal for use in car washes, water chlorination, water treatment in cooling tower and boiler systems, and other applications that require proportional control.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Mfr. Model	Item No.
¾ in	¾ in	NPT	0.25 to 20 gpm	MTR104-G	**22UM64**
1 in	1 in	NPT	0.75 to 50 gpm	MTR304-G	**22UM70**
1½ in	1 ½ in	NPT	1.5 to 100 gpm	MTR404-G	**22UM71**

ModMAG® by Badger Meter

Electromagnetic Flowmeters

49DF03

- Fluid temp. range: 0° to 178°F
- Accuracy: ±0.25%

Feature no moving parts in the flow stream and are suitable for use in beverage, chemical, food, pharmaceutical, water, and wastewater applications.

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Mfr. Model	Item No.
½ in	½ in	150 lb Flange	0.08 to 34 gpm	M20-TE-005-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF02**
1 in	1 in		0.21 to 84 gpm	M20-HR-010-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF03**
1 ½ in	1 ½ in		0.55 to 220 gpm	M20-HR-015-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF04**
2 in	2 in		0.94 to 378 gpm	M20-HR-020-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF05**
3 in	3 in		2.21 to 883 gpm	M2-030-R1-A-MWW-S-XXGF-STD	**49DF06**
4 in	4 in		3.30 to 1320 gpm	M20-HR-040-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF07**
6 in	6 in		7.85 to 3141 gpm	M20-HR-060-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF08**
8 in	8 in		15.69 to 6278 gpm	M20-HR-080-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF09**
10 in	10 in		25.05 to 10021 gpm	M20-HR-100-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF10**
12 in	12 in		33.61 to 13445 gpm	M20-HR-120-F15-S-AC-XX-MM-XX-VAC-GR-XX	**49DF11**

Aluminum Air and Gas Flowmeters

Hedland

- Fluid temp. range: -20° to 240°F
- Max. pressure: 1000 psi
- Accuracy: ±2%, except where noted
- Viton seals

Read in standard cu.-ft./min. (scfm); compensate for system pressures between 40 and 130 psi. Anodized aluminum body, piston, and cone. Install in any position, at any angle, even after 90° elbows; no need for special turbulence-reducing fittings.

4NNC1

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.
¼ in	¼ in	FNPT	0.5 to 5 scfm	4 13⁄16 in	H271A-005	4NNC1 *
			2 to 20 scfm		H271A-020	4NNC2 *
			3 to 30 scfm		H271A-030	4NNC3 *
½ in	½ in		3 to 25 scfm	6 ⅝ in	H671A-025	4NNC4
			5 to 50 scfm		H671A-050	4NNC5
			10 to 100 scfm		H671A-100	4NNC6
¾ in	¾ in			7 3⁄16 in	H771A-100	4NNC7
			25 to 250 scfm		H771A-250	4NNC8

** ±7% accuracy.*

Aluminum Water-Based Flowmeters

Hedland

- Fluid temp. range: -20° to 240°F
- Max. pressure: 3500 psi
- Accuracy: ±2%, except where noted
- Viton seals

Direct-reading scale and guard can be rotated 360°. Install in any position.

4NMY5

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.
¼ in	¼ in	FNPT	0.1 to 1 gpm	4 13⁄16 in	H213A-010	4NMY6 *
			0.2 to 2 gpm		H213A-020	4NMY7 *
			0.5 to 0.50 gpm		H213A-005	4NMY5 *
½ in	½ in		0.2 to 2 gpm	6 ⅝ in	H613A-002	4NMY8
			0.5 to 5 gpm		H613A-005	4NMY9
			1 to 10 gpm		H613A-010	4NMZ1
			1 to 15 gpm		H613A-015	4NMZ2
¾ in	¾ in		2 to 20 gpm	7 3⁄16 in	H713A-020	4NMZ3
			3 to 30 gpm		H713A-030	4NMZ4

** ±7% accuracy.*

Aluminum Oil Flowmeters

Hedland

- Fluid temp. range: -20° to 240°F
- Max. pressure: 3500 psi
- Accuracy: ±2%, except where noted
- Specific gravity: 0.876
- Viton seals

Have a direct-reading 360° rotatable scale and guard. Install in any position without sacrificing accuracy.

4NMV1

For Pipe Size	Connec. Size	Flow Range	Length	Mfr. Model	Item No.
FNPT Connections					
¼ in	¼ in	0.05 to 0.5 gpm	4 13⁄16 in	H201A-005	4NMV1 *
		0.1 to 1 gpm		H201A-010	4NMV2 *
		0.2 to 2 gpm		H201A-020	4NMV3 *
½ in	½ in	0.1 to 1 gpm	6 ⅝ in	H601A-001	4NMV8
		0.2 to 2 gpm		H601A-002	4NMV9
		0.5 to 5 gpm		H601A-005	4NMW1
		1 to 10 gpm		H601A-010	4NMW2
		1 to 15 gpm		H601A-015	4NMW3
¾ in	¾ in	0.5 to 5 gpm	7 3⁄16 in	H701A-005	4NMW8
		1 to 10 gpm		H701A-010	4NMW9
		2 to 20 gpm		H701A-020	4NMX1
		3 to 30 gpm		H701A-030	4NMX2
1 in	1 in	1 to 10 gpm		H761A-010	4NMX5
		2 to 20 gpm		H761A-020	4NMX6
		3 to 30 gpm		H761A-030	4NMX7
		4 to 40 gpm		H761A-040	4NMX8
		5 to 50 gpm		H761A-050	4NMX9
1¼ in	1 ¼ in		12 3⁄16 in	H801A-050	4NND5
		10 to 75 gpm		H801A-075	4NND6
		10 to 100 gpm		H801A-100	4NND7
		10 to 150 gpm		H801A-150	4NND8
SAE Hydraulic Connections					
½ in	10	0.2 to 2 gpm	6 ⅝ in	H600A-002	4NMV4
		0.5 to 5 gpm		H600A-005	4NMV5
		1 to 10 gpm		H600A-010	4NMV6
		1 to 15 gpm		H600A-015	4NMV7
¾ in	12	0.5 to 5 gpm	7 3⁄16 in	H700A-005	4NMW4
		1 to 10 gpm		H700A-010	4NMW5
		2 to 20 gpm		H700A-020	4NMW6
		3 to 30 gpm		H700A-030	4NMW7
1 in	16	2 to 20 gpm		H760A-020	4NMX3
		5 to 50 gpm		H760A-050	4NMX4
1¼ in	20	3 to 30 gpm	12 3⁄16 in	H800A-030	4NND1
		5 to 50 gpm		H800A-050	4NND2
		10 to 75 gpm		H800A-075	4NND3
		10 to 100 gpm		H800A-100	4NND4

** ±7% accuracy.*

Water Flowmeters

Hedland

Variable-area meters are offered with a direct-reading scale. Install in any position, even after 90° elbows, with no need for special turbulence-reducing fittings.

Standard
- Fluid temp. range: -20° to 240°F
- Accuracy: ±2% (except where noted)

EZ-View
- Fluid temp. range: 32° to 250°F (except where noted)
- Accuracy: ±5%

4NMZ5

4NNF4

For Pipe Size	Connec. Size	Connec. Type	Flow Range	Length	Mfr. Model	Item No.
Standard						
Brass Housing, 3500 psi Max., Viton Seals						
¼ in	¼ in	FNPT	0.05 to 0.5 gpm	4 13⁄16 in	H205B-005	4NMZ5 *
			0.1 to 1 gpm		H205B-010	4NMZ6 *
			0.2 to 2 gpm		H205B-020	4NMZ7 *
½ in	½ in		0.2 to 2 gpm	6 ⅝ in	H605B-002	4NMZ8
			0.5 to 5 gpm		H605B-005	4NMZ9
			1 to 10 gpm		H605B-010	4NNA1
			1 to 15 gpm		H605B-015	4NNA2
¾ in	¾ in		0.5 to 5 gpm	7 3⁄16 in	H705B-005	4NNA3
			1 to 10 gpm		H705B-010	4NNA4
			2 to 20 gpm		H705B-020	4NNA5
			3 to 30 gpm		H705B-030	4NNA6
1 in	1 in		1 to 10 gpm		H755B-010	4NNA7
			2 to 20 gpm		H755B-020	4NNA8
Stainless Steel Housing, 5000 psi Max., Viton Seals						
1 in	1 in	FNPT	2 to 20 gpm	7 3⁄16 in	H755S-020	4NNA9
EZ View						
Polysulfone Housing, Brass Fitting, 325 psi Max., Buna N Seals						
½ in	½ in	FNPT	0.5 to 4 gpm	7 ¾ in	H624-004	4NNE7
			1 to 7 gpm		H624-007	4NNE8
			1 to 10 gpm		H624-010	4NNE9
			1 to 16 gpm		H624-016	4NNF1
¾ in	¾ in	MNPT	0.5 to 4 gpm	8 ¼ in	H625-004	4NNF4
			1 to 7 gpm		H625-007	4NNF5
			1 to 10 gpm		H625-010	4NNF6
			1 to 16 gpm		H625-016	4NNF7
			4 to 28 gpm		H625-028	4NNF8
Polysulfone Housing, Polysulfone Fitting, 325 psi Max., Buna N Seals						
1 in	1 in	MNPT	0.5 to 4 gpm	5 ¼ in	H621-004	4NNE1
			1 to 7 gpm		H621-007	4NNE2
			1 to 10 gpm		H621-010	4NNE3
			1 to 16 gpm		H621-016	4NNE4
			3 to 18 gpm		H621-018	4NNE5
			4 to 28 gpm		H621-028	4NNE6
Polysulfone Housing, PVC Fitting, Buna N Seals						
1 in	1 in	Socket	1 to 10 gpm	8 1⁄16 in	H628-010	4NNG1 †
Radel Housing, 325 psi Max., Buna N Seals						
1 in	1 in	MNPT	0.5 to 4 gpm	5 ¼ in	H621-004-R	6KEX9
			1 to 7 gpm		H621-007-R	6KEY0
			1 to 10 gpm		H621-010-R	6KEY1
			1 to 16 gpm		H621-016-R	6KEY2
			3 to 18 gpm		H621-018-R	6KEY3
			4 to 28 gpm		H621-028-R	6KEY4
Radel Housing, Brass Fitting, 325 psi Max., Buna N Seals						
½ in	½ in	FNPT	0.5 to 4 gpm	7 ¾ in	H624-004-R	6JFX2
			1 to 7 gpm		H624-007-R	6JFX3
			1 to 10 gpm		H624-010-R	6JFX4
			1 to 16 gpm		H624-016-R	6JFX5
¾ in	¾ in	MNPT	0.5 to 4 gpm	8 ¼ in	H625-004-R	6KEW7
			1 to 7 gpm		H625-007-R	6KEW8
			1 to 10 gpm		H625-010-R	6KEW9
			1 to 16 gpm		H625-016-R	6KEX0
			3 to 18 gpm		H625-018-R	6KEX1
			4 to 28 gpm		H625-028-R	6KEX2
1 in, ¾ in	¾ in, 1 in	Sweat	0.5 to 4 gpm	7 ¾ in	H620-004-R	6JFY0
			1 to 7 gpm		H620-007-R	6JFY1
			1 to 10 gpm		H620-010-R	6JFY2
			1 to 16 gpm		H620-016-R	6JFY3
			3 to 18 gpm		H620-018-R	6JFY4
			4 to 28 gpm		H620-028-R	6JFY5
1½ in	1 ½ in	FNPT	1 to 7 gpm	8 11⁄16 in	H615-075-R	6KFC8
			2 to 25 gpm		H615-025-R	6KFC6
			5 to 50 gpm		H615-050-R	6KFC7
			10 to 100 gpm		H615-010-R	6KFC5
2 in	2 in		1 to 7 gpm		H617-007-R	6KFD4
			5 to 50 gpm		H617-050-R	6KFD5
			7 to 75 gpm		H617-075-R	6KFD6
			10 to 100 gpm		H617-010-R	6KFD3
Radel Housing, PVC Fitting, Buna N Seals						
1 in	1 in	MNPT	0.5 to 4 gpm	8 ⅞ in	H629-004-R	6KFA3 †
			1 to 7 gpm		H629-007-R	6KFA4 †
			1 to 10 gpm		H629-010-R	6KFA5 †
			1 to 16 gpm		H629-016-R	6KFA6 †
			3 to 18 gpm		H629-018-R	6KFA7 †
			4 to 28 gpm		H629-028-R	6KFA8 †
		Socket	0.5 to 4 gpm		H628-004-R	6KEZ1 †
			1 to 7 gpm		H628-007-R	6KEZ2 †
			1 to 10 gpm		H628-010-R	6KEZ3 †
			1 to 16 gpm		H628-016-R	6KEZ4 †
			3 to 18 gpm		H628-018-R	6KEZ5 †
			4 to 28 gpm		H628-028-R	6KEZ6 †
2 in	2 in		1 to 10 gpm	11 ½ in	H619-010-R	6KFE1 †
			1 to 16 gpm		H619-025-R	6KFE2 †
			4 to 28 gpm		H619-075-R	6KFE4 †
			5 to 50 gpm		H619-050-R	6KFE3 †

** ±7% accuracy. † 32° to 140°F.*

Dynasonics by Badger Meter

Electronic Ultrasonic Flowmeters

- Accuracy: ±1% of reading
- Flow material: water-like liquids

Flowmeters feature an easy, non-invasive installation and low maintenance. Units are suitable for measuring clean liquids in energy monitoring, HVAC, power generation, and water treatment applications.

49DE96

49DE81

For Pipe Size	Flow Range	Display Units	Mfr. Model	Item No.
Housing Material: Unspecified, Fluid Temp. Range: -40° to 250°F, Power Req.: 10-30V DC				
Strap-on Assembly Connection				
½ in to 98 in	0.09792 to 940,420 gpm	Acre Feet, Cubic Feet, Cubic Meters, Feet, Kilograms, Liquid Barrels, Liters, Mega US Gallons, Meters, Oil Barrels, Pounds, gal	DXNP-ABS-NN	**49DE96**
½ in to 98 in	0.09792 to 940,420 gpm		DXNP-AES-NN	**49DE99**
½ in to 120 in	0.00612 to 1,410,000 gpm		DXNP-ATS-NN	**49DE97**
1 in to 60 in	0.00612 to 1,410,000 gpm		DXNP-AFS-NN	**49DF01**
1 in to 60 in	0.09792 to 940,420 gpm		DXNP-AHS-NN	**49DE98**
Housing Material: Aluminum, PVC, Fluid Temp. Range: -40° to 140°F, Power Req.: 95-264V AC				
Dual Connection				
½ in	2 to 38 gpm	Acre-Feet, Barrels (Liquid and Oil), British Thermal Unit, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Kilojoules, Kilowatts, Liters, Megawatts, Meters, Million British Thermal Unit, Million Gallons, Million Liters, mmBtu, Pounds, Tons	DTFXE-AP-AKNB-NN	**49DE81**
½ in	2 to 38 gpm	Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds	DTFXB-GP-AKNN-NN	**49DE75**
¾ in	2.75 to 66 gpm	Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons	DTFXE-BP-AKNB-NN	**49DE82**
¾ in	2.75 to 66 gpm		DTFXE-HP-AKNB-NN	**49DE88**
¾ in	2.75 to 66 gpm	Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds	DTFXB-BP-AKNN-NN	**49DE70**
1 in	3.5 to 108 gpm	Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons	DTFXE-CP-AKNB-NN	**49DE83**
1 in	3.5 to 108 gpm		DTFXE-IP-AKNB-NN	**49DE89**
1 in	3.5 to 108 gpm	Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds	DTFXB-CP-AKNN-NN	**49DE71**
1 in	3.5 to 108 gpm		DTFXB-IP-AKNN-NN	**49DE77**
2 in	8 to 420 gpm	Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons	DTFXE-FP-AKNB-NN	**49DE86**
2 in	8 to 420 gpm	Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds	DTFXB-FP-AKNN-NN	**49DE74**

Dynasonics by Badger Meter

Doppler Ultrasonic Flowmeters

- Accuracy: ±2% full scale
- Flow velocity range: 0.15 to 30 ft./sec.

Non-invasive meters measure full-pipe flows of liquids containing suspended particles or aerated liquids such as sewage, mud slurries, and plastics.

DFX Flowmeter Systems—Systems include transmitter and transducer.
- Ambient temp. range: -40° to 185°F

DFX Flowmeter Transmitters—Each transmitter allows up to 4 meters to be interconnected.
- Ambient temp. range: -40° to 185°F

5XPN0

5XPN2

Flowmeter Transducers—Suitable for most plastic and metal pipes.
- Ambient temp. range: -40° to 194°F

Power Source	Includes	Mfr. Model	Item No.
DFX Flowmeter Systems (Transmitter and Transducer)			
115 V AC	Transducer For Pipe Size 1 in and Above - 5XPN2	—	**7HU43**
	Transducer For Pipe Size ¼ in to 1 in - 5XPN3	—	**7HU44**
12-28 V DC	Transducer For Pipe Size 1 in and Above - 5XPN2	—	**7HU45**
	Transducer For Pipe Size ¼ in to 1 in - 5XPN3	—	**7HU46**
DFX Flowmeter Transmitters			
115 V AC	—	DDFXD2-ANNA-NN	**5XPN0**
12-28 V DC	—	DDFXD2-ENNA-NN	**5XPN1**

Description	For Use With	Mfr. Model	Item No.
Flowmeter Transducers			
Pipe Size (In.): 1 and above	5XPN0, 5XPN1	DT94-020-N000-N	**5XPN2**
Pipe Size (In.): 0.25 to 1.00		DT95-020-N000-N	**5XPN3**
Modules			
4-20 mA Output Module	5XPN0, 5XPN1	D020-1045-100	**5XPN4**
Rate Pulse Output Module, 0-2,500Hz		D020-1045-207	**5XPN5**
Control Relay Module-Two Form C		D020-1045-102	**5XPN6**

Impeller by Badger Meter

Transmitters and Flowmeters

For use in water/wastewater treatment, irrigation, industrial, and HVAC/building automation applications.

Flow Transmitters—Can receive sensor data and convert it to the desired output that represents the flow rate.

BTU/Flowmeters—Measure flow and temperature differential to compute energy in hot service applications. Output is scaled pulse and RS-485 (Modbus and BACnet).
- Fluid temp. range: 20° to 260°F
- Accuracy: ±2%

49DF12

49DF19

Brass Flowmeters—Each sensor comes with 20-ft., 2-conductor 20 AWG shielded UL type PTLC 221°F (105°C) cable.
- Fluid temp. range: 0° to 221°F
- Accuracy: ±1

Stainless Steel Insertion Flowmeters—Suitable for use in flow control and batch type applications.
- Fluid temp. range: 14° to 150°F
- Accuracy: ±1%

Description	Mfr. Model	Item No.
Flow Transmitters		
Analog Signal, 9-35VDC	310-00	**49DF35**
BACnet and Modbus Signal, 12-24VAC	340BN/MB-00	**49DF34**
Lon Works Signal, 12-24VAC/DC	340LW-00	**49DF38**
N2 Output Signal, 12-24VAC	340N2-00	**49DF33**
Pulse Signal, 12-28VAC	320-00	**49DF36**
Relay Signal, 12-28VAC	330-00	**49DF37**

For Pipe Size	Flow Range	Wetted Materials†	Mfr. Model	Item No.
BTU/Flowmeters, FNPT, All-In-One				
¾ in	1.65 to 24.69 gpm	Brass, PEEK	380207000-1202	**49DF12**
1 in	2.70 to 40.48 gpm		380210000-1202	**49DF13**
1 ¼ in	4.66 to 69.93 gpm		380212000-1202	**49DF14**
1 ½ in	6.35 to 95.18 gpm		380215000-1202	**49DF15**
2 in	10.49 to 157.34 gpm		380220000-1202	**49DF16**
Brass Insertion Flowmeter				
3 in	—	Brass, EPDM, Nylon, Tungsten, UHMWPE	220BR0005-1211	**49DF24**
Brass T Flowmeters, FNPT				
½ in	0.18 to 9.18 gpm	Brass, EPDM, Nylon, Tungsten, UHMWPE	250BR0505-1211	**49DF19**
¾ in	0.41 to 20.6 gpm		250BR0705-1211	**49DF20**
1 in	0.73 to 36.7 gpm		250BR1005-1211	**49DF21**
1 ¼ in	1.14 to 57.3 gpm		250BR1205-1211	**49DF22**
1 ½ in	1.65 to 82.6 gpm		250BR1505-1211	**49DF23**
2 in	5.00 to 300 gpm		228BR2005-1211	**49DF17**
2 ½ in	7.65 to 459 gpm		228BR2505-1211	**49DF18**
Stainless Steel Insertion Flowmeters (NEMA 4X Enclosure)				
1 ½ in to 10 in	5.50 to 4896 gpm	316 Stainless Steel, Brass, PEEK, PPS Tip	SDI1D1N00-0200	**49DF25**
1 ½ in to 10 in	5.50 to 4896 gpm		SDI0D1N00-0200	**49DF29**
12 in to 36 in	352 to 63,452 gpm		SDI1D2N00-0200	**49DF26**
12 in to 36 in	352 to 63,452 gpm		SDI1D2N11-0200	**49DF27** *
12 in to 36 in	352 to 63,452 gpm		SDI1D2N10-0200	**49DF28**
12 in to 36 in	352 to 63,452 gpm		SDI0D2N00-0200	**49DF30**
12 in to 36 in	352 to 63,452 gpm		SDI0D2N11-0200	**49DF31** *
12 in to 36 in	352 to 63,452 gpm		SDI0D2N10-0200	**49DF32**

** LCD display. † EPDM = ethylene propylene diene monomer rubber, PEEK = polyetheretherketone, PPS = polyphenylene sulfide, UHMWPE = ultra-high-molecular-weight polyethylene.*

BROOKS INSTRUMENT

Acrylic Variable-Area Flowmeters

- Max. operating pressure: 100 psi
- Max. operating temp.: 150°F
- Max. viscosity: 16.4 CST

Clear acrylic meters have stable, easy-to-read floats with English or metric scales. They are integral-valved to permit individual flow control in air-sampling equipment, desalinization equipment, medical systems, water treatment and distribution systems, swimming pools, and aquaculture systems. Back-mounted meters (see Model-Accuracy-Dimensions chart) have standard 10-32 brass inserts for quick installation.

Model	Accuracy	Dim. (in.) W	Dim. (in.) H	Dim. (in.) D	Center-to-Center Fittings*	Center-to-Center Inserts
2510	±5%	1	4	1⅛	3	1⅝
2520	±3%	1⅜	6½	1⅛	5½	3½
2530	±3%	1⅛	6⅝	1⅜	5½	3½
2540	±2%	1¾	10 29/32	2	8½	4½

*** Back connection mounting.***

16X850

4UM99

4UN06

Connec. Size	Flow Range†	Center-Center Fitting Size	O-Ring	Fitting	Includes	Mfr. Model	Item No.
Air							
⅛ in	.04 to .5 lpm	3 in	Buna-N	Brass	One Valve on Inlet	2510A2A12BVBN	**16X850**
	.1 to 1 lpm	3 in	Viton	Stainless Steel	Valves	2510A2A13SVVT	**16X851**
	.1 to 1 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A13BNBN	**16X852**
	0.3 to 3 scfm	5 ½ in	Viton	Stainless Steel	Valves	2520A4A37SVVT	**5P364**
	0.3 to 3 scfm	5 ½ in	Nitrile	Brass	Valves	2520A4A37BVBN	**5P348**
	.4 to 5 lpm	3 in	Viton	Stainless Steel	Valves	2510A2A14SVVT	**16X853**
	.4 to 5 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A14BNBN	**16X854**
	2 to 25 lpm	3 in	Viton	Stainless Steel	Valves	2510A2A16SVVT	**16X855**
	2 to 25 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A16BNBN	**16X856**
	10 to 100 lpm	3 in	Viton	Stainless Steel	Valves	2510A2A18SVVT	**16X857**
	10 to 100 scfh	5 ½ in	Viton	Stainless Steel	Valves	2520A4A34SVVT	**5P361**
	10 to 100 scfh	5 ½ in	Nitrile	Brass	Valves	2520A4A34BVBN	**5P345**
	11 to 100 lpm	3 in	Buna	Brass	Flowmeter Only	2510A2A18BNBN	**16X858**
	20 to 200 scfh	5 ½ in	Viton	Stainless Steel	Valves	2520A4A36SVVT	**5P363**
	20 to 200 scfh	5 ½ in	Nitrile	Brass	Valves	2520A4A36BVBN	**5P347**
¼ in	0.5 to 5 scfm	5 ½ in	Viton	Stainless Steel	Valves	2530A4A67SVVT	**4UN01**
	0.5 to 5 scfm	5 ½ in	Nitrile	Brass	Valves	2530A4A67BVBN	**4UM99**
	1 to 10 scfm	5 ½ in	Viton	Stainless Steel	Valves	2530A4A65SVVT	**4UM98**
	1 to 10 scfm	5 ½ in	Nitrile	Brass	Valves	2530A4A65BVBN	**4UM97**
1 in	3 to 25 scfm	8 ½ in	Nitrile	PVC	—	2540A5A50PS	**4UN06**
	4 to 50 scfm	8 ½ in	Nitrile	PVC	—	2540A5A51PS	**4UN07**
	10 to 100 scfm	—	Nitrile	PVC	—	2540A5A52PS	**4UN08**

Connec. Size	Flow Range†	Center-Center Fitting Size	O-Ring	Fitting	Includes	Mfr. Model	Item No.
Water							
⅛ in	0.2 to 2.5 gpm	5 ½ in	Nitrile	Brass	—	2520Z-001021	**5P321**
	1 to 10 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L45SVVT	**5P349**
	1 to 10 gph	3 in	Viton	Stainless Steel	Valves	2510A2L20SVVT	**16X863**
	1 to 10 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L45BVBN	**5P333**
	1 to 10 gph	3 in	Buna	Brass	Flowmeter Only	2510A2L20BNBN	**16X864**
	2 to 25 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L48SVVT	**5P350**
	2 to 25 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L48BVBN	**5P334**
	4 to 40 gph	3 in	Viton	Stainless Steel	Valves	2510A2L22SVVT	**16X865**
	4 to 40 gph	3 in	Buna	Brass	Flowmeter Only	2510A2L22BNBN	**16X866**
	4 to 50 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L38SVVT	**5P353**
	4 to 50 ccm	5 ½ in	Nitrile	Brass	Valves	2520A4L38BVBN	**5P337**
	6 to 60 gph	5 ½ in	Viton	Stainless Steel	Valves	2520A4L46SVVT	**5P352**
	6 to 60 gph	5 ½ in	Nitrile	Brass	Valves	2520A4L46BVBN	**5P336**
	10 to 120 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L56SVVT	**5P354**
	20 to 240 ccm	3 in	Viton	Stainless Steel	Valves	2510A2L11SVVT	**16X861**
	20 to 240 ccm	3 in	Buna	Brass	Flowmeter Only	2510A2L11BNBN	**16X862**
	25 to 225 ccm	5 ½ in	Nitrile	Brass	Valves	2520A4L51BVBN	**5P339**
	40 to 400 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L50SVVT	**5P356**
	40 to 660 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L52SVVT	**5P357**
	100 to 1500 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L53SVVT	**5P358**
	200 to 3000 ccm	5 ½ in	Viton	Stainless Steel	Valves	2520A4L54SVVT	**5P359**
¼ in	0.25 to 2.5 gpm	5 ½ in	Viton	Stainless Steel	Valves	2530A4L64SVVT	**4UN03**
	0.25 to 2.5 gpm	5 ½ in	Nitrile	Brass	Valves	2530A4L64BVBN	**4UN02**
	0.4 to 5 gpm	5 ½ in	Viton	Stainless Steel	Valves	2530A4L66SVVT	**4UN05**
	0.5 to 5 gpm	5 ½ in	Nitrile	Brass	Valves	2530A4L66BVBN	**4UN04**
1 in	0.4 to 5 gpm	—	Nitrile	PVC	—	2540A5L56PI	**4UN11**
	1 to 10 gpm	—	Nitrile	PVC	—	2540A5L57PI	**4UN09**
	2 to 20 gpm	—	Nitrile	PVC	—	2540A5L58PI	**4UN10**

† ccm = cubic centimeters per min. (metric); gph = gal. per hr. (English); gpm = gal. per min. (English); lpm = liters per min. (metric); scfh = standard cu. ft. per hr. (English); scfm = standard cu. ft. per min. (English).

Air and Liquid Flow Switches

McDonnell & Miller
a xylem brand

- Single-pole, double-throw snap switch
- Sensitivity flow adjustment screw
- 120/240VAC operation
- Full load amps: 7.4 at 115V, 3.7 at 230V

Additional flow range information is available on Grainger.com, or call 1-800-GRAINGER (472-4643).

Air Flow General-Purpose—For applications with medium- and high-velocity requirements. Paddle fits 8" minimum duct size (trim to fit 6" duct). Sensitivity flow adjustment screw.

Liquid Flow General-Purpose—Start or stop electrically operated equipment such as signal lights, alarms, motors, automatic burners, and metering devices. 2RUL3 and 2RUL4 have 4 stainless steel paddles that fit 1", 2", 3", and 6" pipe; paddle can be trimmed to fit incremental pipe sizes.

Liquid Flow High-Sensitivity—For heavy-duty applications that need instant switching such as water treatment systems, electronic circuit cooling systems, compressors, booster pumps, and bearings.

Liquid Flow Industrial/ Heavy-Duty—Designed for large pipe applications, including heating and hydronic systems, air conditioning, refrigeration, and process work. Paddles can be trimmed to suit. Fit 2" to 16" pipe with flow rates up to 998 gpm.

Paddle Kits—Designed to replace damaged paddles and return flow switches to original flow-sensing capability.

4RC76

2RUL3

4RC67

2RUL4

4RC70

Operating Velocity Range, Horizontal (fpm)	Max. Operating Velocity (fpm)	Material of Construc.	Switch Enclosure	Max. Air Temp.	Mfr. Model	Item No.
Air Flow General-Purpose						
910 to 1610	2,500 fpm	Seal: Steel/PTFE, Vane: Steel/Brass	NEMA 1	300	AF-1	**4RC76**

Min. Flow Rate (gpm)	Max. Flow (gpm)	Wetted Materials	Max. Pressure (psi)	Max. Fluid Temp. (°F)	Switch Enclosure	Connection Size (in.)	Mfr. Model	Item No.
Liquid Flow General-Purpose								
1.5 gpm	15 gpm	Brass, BUNA, EPDM	150 psi	250 °F	NEMA 1	¾ FNPT	FS5-3/4	**4RC67**
1.5 gpm	15 gpm	Brass, BUNA, EPDM	150 psi	250 °F	NEMA 1	1 FNPT	FS5-1	**1RF63**
5.8 gpm	131 gpm	Brass, EPDM, SS	160 psi	250 °F	NEMA 1	1 MNPT	FS251	**2RUL3**
5.8 gpm	131 gpm	Brass, EPDM, SS	160 psi	250 °F	NEMA 4	1 MNPT	FS254	**2RUL4**
Liquid Flow High-Sensitivity								
0.12 gpm	2.5 gpm	Brass, Buna-N, SS, Viton	100 psi	225 °F	NEMA 1	1 FNPT	FS6-1	**4RC68**
0.12 gpm	2.5 gpm	Brass, Buna-N, SS, Viton	100 psi	225 °F	NEMA 4X	1 FNPT	FS6-W-1	**4RC69**
0.12 gpm	2.5 gpm	Brass, SS, Viton	100 psi	225 °F	NEMA 1	¾ FNPT	FS6-3/4	**1RF64**
0.12 gpm	2.5 gpm	Brass, SS, Viton	100 psi	225 °F	NEMA 4X	¾ FNPT	FS6-W-3/4	**1RF65**
Liquid Flow Industrial/Heavy-Duty								
4.8 gpm	7.7 gpm	Brass, Bronze, PTFE, SS	300 psi	300 °F	NEMA 1	1 ¼ MNPT	FS7-4	**4RC70**
4.8 gpm	7.7 gpm	Brass, Bronze, PTFE, SS	300 psi	300 °F	NEMA 4X	1 ¼ MNPT	FS7-4W	**4RC72**
4.8 gpm	7.7 gpm	Brass, Bronze, PTFE, SS	300 psi	300 °F	NEMA 7,9	1 ¼ MNPT	FS7-4E	**4RC74**
4.8 gpm	7.7 gpm	PTFE, SS	1,000 psi	300 °F	NEMA 1	1 ¼ MNPT	FS7-4S	**4RC71**
4.8 gpm	7.7 gpm	PTFE, SS	1,000 psi	300 °F	NEMA 4X	1 ¼ MNPT	FS7-4SW	**4RC73**

Type	For Use With	Includes	Item No.
Paddle Kits			
Bronze	4RC70 to 4RC74	1 Each of 1¼ in and 6 in Paddles	**2RUL6**
Stainless Steel	4RC70 to 4RC74	1 Each of 1¼ in and 6 in Paddles	**2RUL7**
Stainless Steel	2RUL3, 2RUL4	1 Each of 1 in, 2 in, 3 in, and 6 in Paddles	**2RUL5**

4UP14

4UP27

PULSAFEEDER
PULSAtron®

Adjustable Diaphragm Pumps

- Self-priming
- Max. viscosity: 1000cP
- 115V

Adjustable single-head metering pumps have a double-ball check valve and leak-free sealless liquid end. Powered by a high-quality fin-cooled solenoid. Wetted parts: PTFE-faced CSPE diaphragm, ABS body, ceramic ball, PTFE seals and O-rings, and PVC/polyethylene tubing. Each includes foot valve/strainer assembly, backpressure injection valve assembly, 4-ft. suction tubing, 8-ft. discharge tubing, and 4-ft. bleed valve tubing. Models with PVDF construction are NSF 61 compliant.

A Plus Series—Allow you to adjust the stroke length and stroke rate. Pumps are internally dampened to reduce noise and are water-resistant for outdoor use.

C Series—Manual control lets you adjust the stroke length. Models are internally dampened to help reduce noise.

E Plus Series—Feature Off/Manual selector switch, indicator lights, and built in circuit protection.

MP Series—Pumps have automatic control, fully scalable 4-20mADC, 20-4mADC, or external pacing. Relay output and stop input. 16-character LCD is programmable in 4 languages.

Note: Tubing is ⅜" O.D. for Max. Flow to 44 gpd, ½" O.D. for Max. Flow 96 gpd and higher.

Replacement 5-Function Valves—Easy-to-install, corrosion-resistant valves have a chemical-resistant wetted end, with recessed screws.

Max. Flow	Max. Pressure	Reproducibility	Head and Fitting Material	Mfr. Model	PUMPS Item No.	REPAIR KITS Item No.
A Plus Series, 100:1 Turndown Ratio						**For A Series**
6.00 gpd	150 psi	+/-3.0%	GFPPL	LB02SA-PTCJ-G19	**4UP25**	**4UP12**
6.00 gpd	150 psi	+/-3.0%	PVDF	LB02SA-KTCJ-G19	**6KYG6**	**23LY06**
12.00 gpd	150 psi	+/-3.0%	GFPPL	LB03SA-PTC1-G19	**4UP26**	**4UP13**
12.00 gpd	150 psi	+/-3.0%	PVDF	LB03SA-KTC1-G19	**6KYG7**	**6KYH5**
24.00 gpd	100 psi	+/-3.0%	GFPPL	LB04SA-PTC1-G19	**20LX58**	**4UP14**
24.00 gpd	100 psi	+/-3.0%	PVDF	LB04SA-KTC1-G19	**20LX59**	**6KYH6**
30.00 gpd	100 psi	+/-3.0%	GFPPL	LB64SA-PTC1-G19	**4UP27**	**4UP14**
30.00 gpd	100 psi	+/-3.0%	PVDF	LB64SA-KTC1-G19	**6KYG8**	**6KYH6**
58.00 gpd	100 psi	+/-3.0%	GFPPL	LBS4SA-PTC1-G19	**20LX56**	**4UP14**
58.00 gpd	100 psi	+/-3.0%	PVDF	LBS4SA-KTC1-G19	**20LX57**	**6KYH6**
C Series, 10:1 Turndown Ratio						
6.00 gpd	80 psi	+/-3.0%	GFPPL	LC02SA-PTCJ-G19	**20LX67**	**4UP12**
12.00 gpd	80 psi	+/-3.0%	GFPPL	LC03SA-PTC1-G19	**20LX68**	**4UP13**
24.00 gpd	80 psi	+/-3.0%	GFPPL	LC04SA-PTC1-G19	**20LX69**	**4UP14**
30.00 gpd	80 psi	+/-3.0%	GFPPL	LC54SA-PTC1-G19	**20LX70**	**4UP14**
E Plus Series, 100:1 Turndown Ratio						**For E Series**
5.00 gpd	250 psi	+/-2.0%	GFPPL	LPB2SA-PTCJ-G19	**20LX60**	**4UP12**
5.00 gpd	250 psi	+/-2.0%	PVDF	LPB2SA-KTCJ-G19	**20LX61**	**23LY06**
12.00 gpd	150 psi	+/-2.0%	GFPPL	LPB3SA-PTC1-G19	**20LX62**	**4UP13**
12.00 gpd	150 psi	+/-2.0%	PVDF	LPB3SA-KTC1-G19	**20LX63**	**6KYH5**
24.00 gpd	100 psi	+/-2.0%	GFPPL	LPB4SA-PTC1-G19	**20LX64**	**4UP14**
24.00 gpd	100 psi	+/-2.0%	PVDF	LPB4SA-KTC1-G19	**20LX65**	**6KYH6**
41.00 gpd	250 psi	+/-2.0%	GFPPL	LPH4SA-PTC1-G19	**4UP30**	**4UP14**
41.00 gpd	250 psi	+/-2.0%	PVDF	LPH4SA-KTC1-G19	**6KYH1**	**6KYH6**
44.00 gpd	100 psi	+/-2.0%	GFPPL	LPE4SA-PTC1-G19	**4UP28**	**4UP14**
44.00 gpd	100 psi	+/-2.0%	PVDF	LPE4SA-KTC1-G19	**6KYG9**	**6KYH6**
96.00 gpd	100 psi	+/-2.0%	GFPPL	LPG5SA-PTC3-G19	**4UP29**	**4UP15**
96.00 gpd	100 psi	+/-2.0%	PVDF	LPG5SA-KTC3-G19	**6KYH0**	**23LX66**
120.00 gpd	100 psi	+/-2.0%	GFPPL	LPH6SA-PTC3-G19	**4UP31**	**4UP16**
120.00 gpd	100 psi	+/-2.0%	PVDF	LPH6SA-KTC3-G19	**6KYH2**	**6KYH8**
240.00 gpd	35 psi	+/-2.0%	GFPPL	LPH7SA-PTC3-G19	**4UP32**	**4UP17**
240.00 gpd	35 psi	+/-2.0%	PVDF	LPH7SA-KTC3-G19	**6KYH3**	**23LX96**
600.00 gpd	30 psi	+/-2.0%	GFPPL	LPH8SA-PTCB-G19	**20LX66**	**42EU79**
MP Series, 1000:1 Turndown Ratio						
5.00 gpd	250 psi	+/-2.0%	GFPPL	LMB2TA-PTCJ-G19	**20LX71**	**4UP12**
12.00 gpd	150 psi	+/-2.0%	GFPPL	LMB3TA-PTC1-G19	**20LX72**	**4UP13**
24.00 gpd	100 psi	+/-2.0%	GFPPL	LMB4TA-PTC1-G19	**20LX73**	**4UP14**
41.00 gpd	250 psi	+/-2.0%	GFPPL	LMH4TA-PTC1-G19	**20LX74**	**4UP14**
44.00 gpd	100 psi	+/-2.0%	GFPPL	LME4TA-PTC1-G19	**20LX75**	**4UP14**
96.00 gpd	100 psi	+/-2.0%	GFPPL	LMG5TA-PTC3-G19	**20LX76**	**4UP15**
120.00 gpd	100 psi	+/-2.0%	GFPPL	LMH6TA-PTC3-G19	**20LX77**	**4UP16**
240.00 gpd	35 psi	+/-2.0%	GFPPL	LMH7TA-PTC3-G19	**20LX78**	**4UP17**
504.00 gpd	20 psi	+/-2.0%	GFPPL	LMH8TA-PTCB-G19	**20LX79**	**42EU79**

Tubing Connec. (in.)	Item No.
Replacement 5 Function Valves	
⅜ in	**4UP22**
½ in	**4UP23**

3HHF1

PULSAFEEDER
CHEM-TECH

Adjustable- and Fixed-Rate Peristaltic Metering Pumps

- Self-priming to 24 ft.
- 115VAC

Have chemical-resistant Norprene tubing and PVC fittings for flow up to 300cP, even with outgassing (offgassing) liquids. Rugged ABS enclosure, control cover, and rain shield that allows for horizontal/vertical mounting. PVC head assembly has toolless design, and a jog mode for tubing changes. Include suction strainer, 15 ft. of ¼" PE suction and discharge tubing, injection quill with 7 psi backpressure, and extra pump tube. ¼" MNPT PVC fitting eases connection to piped systems. Replacement tube assemblies are available on Grainger.com. ETL Listed to U.S., Canadian, and CE standards. NSF 61 Approved.

Adjustable-Rate—A timing circuit is adjustable in 1% increments from 5% to 100% of rated flow for a 20:1 turndown ratio. No mechanical adjustment components to wear out.

Variable-Speed—Microprocessor control with LCD allows manual or automatic output adjustment with a 4-20mA signal. 100:1 turndown ratio.

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
Adjustable Rate			
7.00 gpd	125 psi	XP007LAHXG19	**3HHF1**
9.00 gpd	110 psi	XP009LAHXG19	**3HHF2**
15.00 gpd	110 psi	XP015LAHXG19	**3HHF3**
30.00 gpd	80 psi	XP030LAHXG19	**3HHF4**
Fixed Rate			
7.00 gpd	125 psi	XP007LFHXG19	**3HHF5**
9.00 gpd	110 psi	XP009LFHXG19	**3HHF6**
15.00 gpd	110 psi	XP015LFHXG19	**3HHF7**
30.00 gpd	80 psi	XP030LFHXG19	**3HHF8**
Variable-Speed			
8.00 gpd	125 psi	XP008LVHXG19	**4RZK1**
17.00 gpd	110 psi	XP017LVHXG19	**4RZK2**
33.00 gpd	100 psi	XP033LVHXG19	**4RZK3**
55.00 gpd	80 psi	XP055LVHXG19	**4RZK4**
100.00 gpd	25 psi	XP100LVLXG19	**4RZK5**

2P305

PULSAFEEDER

Multipurpose Peristaltic Metering Pumps

- Self-priming to 15 ft.
- 120VAC

Nonclogging, adjustable output, valveless pumps are chemical- and corrosion-resistant and for use with off-gassing chemicals such as hydrogen peroxide and chlorine. Compatible with liquid chlorine, weak acids, detergents, polymers, and wetting agents. Polycarbonate head, Norprene peristaltic tubing, PVC injection fitting, polypropylene strainer with weight, and 15-ft. polyethylene tubing. Max. viscosity: 300cP.

VSP Series, Variable Speed—Adjust output via an internal knob that varies the motor speed. Adjustable from 13 to 100% of rated capacity. 8:1 turndown ratio.

Dolphin Series, 10-Min. Cycle Time—Adjust output via a solid state current interrupter that cycles power On and Off. Adjustable from 10 to 100% of rated capacity. 10:1 turndown ratio.

Replacement Tubes—Include 9 in L Norprene tubing (diameter varies).

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
VSP Series—Variable Speed			
12.00 gpd	25 psi	UVSP12XRLLAUG19	**20LX55**
20.00 gpd		UVSP20XRLLAUXXX	**2P304**
Dolphin Series—10 Min. Cycle Time			
13.00 gpd	25 psi	UD10-XA-LSAUG19	**20LX53**
60.00 gpd		UD50-XA-LSAUXXX	**2P305**
97.00 gpd		UD75-XA-LSAUG19	**20LX54**
Replacement Tubes			
For 2P304	—	7013397	**1R422**

PULSAFEEDER
CHEM-TECH

Chemical Metering Pumps

- Self-priming to 4 ft.
- 115VAC

49AV26

Compact, chemical-resistant pumps provide dependable metering performance. Degassing models have a degassing valve for use in off-gassing chemicals. All models have a sealed gearbox and eccentric cam for reliable dosing, easy flow rate control and turndown. Motorized-diaphragm technology provides long life even with continuous-duty cycles. 10:1 turndown ratio. PVC/polyethylene tubing with CSPE diaphragm, seals, and O-rings, except degassing models are hypalon. Max. viscosity: 300 cps, except 20 cps for degassing models. Include injection back pressure valve, bleed valve, foot valve strainer with weight, and tubing. ETL Listed.

Max. Flow Rate	Max. Pressure	Mfr. Model	Item No.
Adjustable Output Via Stroke Length			
3.00 gpd	100 psi	X003-XA-AAAAG19	**33M860**
7.00 gpd		X007-XA-AAAAG19	**33M886**
15.00 gpd		X015-XA-AAAAG19	**33M859**
24.00 gpd		X024-XA-AAAAG19	**49AV26**
30.00 gpd		X030-XA-AAAAG19	**33M861**
Degassing			
15.00 gpd	100 psi	X015-XA-BAA8G19	**1AKE8**
30.00 gpd		X030-XA-BAA8G19	**2YE50**

Peristaltic Metering Pumps

STENNER PUMPS

- Self-priming to 25 ft.
- Reproducibility: ±2%
- 120V

For injecting solutions into commercial swimming pools, spas, well water, municipal/industrial waste water, cooling tower/boiler water treatment, animal health, and various industrial water processing applications. Wet-end materials include Santoprene, PVC, polypropylene, and polyethylene. Max. viscosity: 300cP. Include 20-ft. polyethylene tubing, spare tube, weighted strainer, and injection check valve (100 psi models) or injection fitting (25 psi models). UL Listed, CSA Certified, and conform to ANSI/NSF STD61. Adjustable and fixed rate pumps tested by ETL to conform to ANSI/NSF STD50.

Adjustable-Rate—Feed rate control adjusts from 5% to 100%. Snap-fit components ease disassembly/service. 20:1 turn down ratio.

Fixed-Rate—Can be used with ORP/pH controllers and with proportional metering systems. Include 20-ft. polyethylene tubing, 3 ferrules, 3 connecting nuts, weighted strainer, injector fitting, and spare tube.

Variable-Speed—Digital interface with multiple operation modes, plus analog and digital inputs/outputs with advanced programming, control, and construction. Have tube leak detection, brushless DC motor, and NEMA 4X rating. 100:1 turn down ratio.

Quick-Pro Pump Assemblies—Polycarbonate head with collapsible roller design permits quick, easy tool-free tube change. ¼" tubing connection. 1-pc. peristaltic pump tube construction for greater durability and long life.

Service Kits/Tubing—4VZG8 provides a visual confirmation that fluid is pumping when used with ¼" O.D. polyethylene discharge tubing.

4VZG9 has 4 settings to operate pump when used in conjunction with a dry contact water meter.

Chemical Solution Tank—Translucent polyethylene tank has a large fill opening, spill containment basin, and level indicator. Includes mounting hardware. Compatible with all single-head Stenner pump models.

4NA14

52XH65

3CCR6

Max. Flow Rate	Tubing Connec. (in.)	Max. Pressure	ADJUSTABLE Mfr. Model	ADJUSTABLE Item No.	FIXED RATE Mfr. Model	FIXED RATE Item No.	VARIABLE SPEED Mfr. Model	VARIABLE SPEED Item No.
Single Head								
3.00 gpd	¼	100 psi	—	—	45MFH1A1SUG1	**4VZG1**	—	—
5.00 gpd	¼	100 psi	85MJH1A1STG1	**4NA11**	85MFH1A1SUG1	**4VZG2**	S3001AA101NG1	**52XH64**
10.00 gpd	¼	100 psi	—	—	45MFH2A1SUG1	**4VZG3**	—	—
17.00 gpd	¼	100 psi	85MJH2A1STG1	**4NA12**	85MFH2A1SUG1	**4VZG4**	S3002AA101NG1	**52XH65**
40.00 gpd	¼	100 psi	85MJH7A1STG1	**4NA13**	85MFH7A1SUG1	**4VZG5**	S3007AA101NG1	**52XH66**
50.00 gpd	¼	25 psi	45MJL5A1STG1	**4NA14**	45MFL5A1SUG1	**4VZG6**	—	—
85.00 gpd	¼	25 psi	85MJL5A1STG1	**4NA15**	85MFL5A1SUG1	**4VZG7**	S3005AA101NG1	**52XH68**
Dual Head								
170.00 gpd	¼	25 psi	170JL5A1STG1	**4NA16**	—	—	—	—

For Use With	Includes	Mfr. Model	Item No.
Replacement Tube Kits			
For Use With 4NA11, 4NA17, 4NA21, 4VZG1, 4VZG2, 52XH64	(2) ¼ in Santoprene Tubes, (2) Duckbills, (4) Ferrules	UCCP1FD	**4NA25**
For Use With 4NA12, 4NA18, 4NA22, 4VZG3, 4VZG4, 52XH65	(2) ¼ in Santoprene Tubes, (2) Duckbills, (4) Ferrules	UCCP2FD	**4NA26**
For Use With 12L291, 4NA14, 4NA15, 4NA16, 4NA20, 4NA24, 4VZG6, 4VZG7, 52XH68	(2) ¼ in Santoprene Tubes, (2) Duckbills, (4) Ferrules	UCCP205	**4NA27**
For Use With 12L292,, 4NA13, 4NA19, 4NA23, 4VZG5, 52XH66	(2) ¼ in Santoprene Tubes, (2) Duckbills, (4) Ferrules	UCCP7FD	**4NA28**
Quick-Pro Pump Assemblies			
For Use With 4NA11, 4NA17, 4NA21, 4VZG1, 4VZG2	Duckbills, Ferrules - ¼ in, Santoprene Pump Tube	QP101-1G1	**13G534**
For Use With 4NA12, 4NA18, 4NA22, 4VZG3, 4VZG4	Duckbills, Ferrules - ¼ in, Santoprene Pump Tube	QP102-1G1	**13G535**
For Use With 12L291, 4NA14, 4NA15, 4NA20, 4NA24, 4VZG6, 4VZG7	Ferrules - ¼ in, Santoprene Pump Tube	QP255-1G1	**13G536**
For Use With 12L292, 4NA13, 4NA19, 4NA23, 4VZG5	Duckbills, Ferrules - ¼ in, Santoprene Pump Tube	QP107-1G1	**13G537**
Quick-Pro Pump Head Service Kits			
For Use With 52XH64	Connecting Nuts, Ferrules, Latches, Pump Tube, Roller Assembly	S3101K	**52XH76**
For Use With 52XH65	Connecting Nuts, Ferrules, Latches, Pump Tube, Roller Assembly	S3102K	**52XH77**
For Use With 52XH66	Connecting Nuts, Ferrules, Latches, Pump Tube, Roller Assembly	S3107K	**52XH78**
For Use With 52XH68	Connecting Nuts, Ferrules, Latches, Pump Tube, Roller Assembly	S3105K	**52XH80**

** Approved vendor.*

Description	Includes	Mfr. Model	Item No.	
Service Kits/Tubing				
Feed Rate Control Service Kit	1 Index Plate, 1 Lifter, 1 oz Tube of Aqua Shield(R), 1 Variable Cam, 3 FRC Screw A	FSK100	**2MWF4**	
Gear Case Service Kit, 45 and 100 Series	1 oz Tube of Aqua Shield(R), 2 Gear Posts, 4 Cover Screw B, Metal Reduction Gear, Motor Shaft with Gear, Phenolic Gear with Spacer	GSK45A	**2MWF5**	
Gear Case Service Kit, 85 and 170 Series	1 oz Tube of Aqua Shield(R), 2 Gear Posts, 4 Cover Screw B, Metal Reduction Gear, Motor Shaft with Gear, Phenolic Gear with Spacer	GSK85A	**2MWF6**	
Motor Service Kit 120v/60Hz	2 Coil Screw G with Lock Washer, 2 Wire Nuts, Brackets, Coil, Coil Ground Screw E, Rotor Assembly with Bearings, Tolerance Rings and Fan	MSK120	**2MWF7**	
Tubing, Polyethylene, 20 ft	Stenner Suction/Discharge Tubing, 20 ft., ¼ in O.D.	AK4002W	**2MWF3**	*
Flow Indicator	Flow Indicator, Max Flow 85 gpd, Max Pressure 100 psi, Polymethylmethacrylate, Tubing Connection - ¼ in, Vertical Mounting	AK600	**4VZG8**	
Pump Control Module	—	PCM5	**4VZG9**	

Tank (gal.)	Tubing Connec. (in.)	H	Dia.	Mfr. Model	Item No.
Chemical Solution Tank					
7.5 gal	¼ in	19⅝"	20½"	STS7N-02G1	**3CCR6**

General Purpose Metering Pumps

STENNER PUMPS

- Self-priming to 25 ft.
- 120VAC, except 481H74 and 481H75 are 115VAC

Compact, adjustable, and feature an innovative "Quick-Release" head for simple and fast tube change. Santoprene peristaltic tubing is FDA-approved and requires no adjustment or lubrication. Ideal for light-duty applications such as injecting chlorine, weak acids, and alkaline solutions. Max. viscosity: 100cP. Accessories included. Pump Tube Replacement Kits include 2 Santoprene tubes and 4 ferrules. Pumps are UL and C-UL Listed.

35PF94

Max. Flow (gpd)	Max. Pressure	Mfr. Model	Item No.
Econ VX Series, Peristaltic Metering Pumps			
7.40 gpd	25 psi	E10VXAA1S6G1	**35PF94**
14.00 gpd	25 psi	E10VXBA1S6G1	**35PF95**
14.00 gpd	80 psi	E10VXHA1S6	**481H74**
23.50 gpd	80 psi	E20VXHA1S6G1	**481H75**
24.80 gpd	25 psi	E20VXBA1S6G1	**35PF96**
38.80 gpd	25 psi	E20VXCA1S6G1	**35PF97**
Pump Tube Replacement Kits			
For Use With 35PF94		EC30A-2G1	**35PF98**
For Use With 35PF95, 35PF96		EC30B-2G1	**35PF99**
For Use With 35PF97		EC30C-2G1	**35PG01**

STENNER PUMPS

Peristaltic Livestock Medicator Pump

- Self-priming up to 25 ft.
- 1:128 injection ratio
- 120V

The Econ Stennicator model is suitable for injecting solutions such as disinfectants, medications, nutrients, and sanitizers into water for treating livestock. Injection is directly into the water line so the solution does not contact any moving parts and avoids fouling and water flow restrictions. Polycarbonate body with santoprene seals and O-rings. Pump has adjustable pulse rate settings and can connect to an existing pulse water meter. Includes 3 connecting nuts, 3 ferrules, injection check valve, weighted suction line strainer, 20-ft. Santoprene tubing, and spare pump tube.

33TH67

Max. Flow (gpd)	Max. Pressure	Mfr. Model	Item No.	Replacement Tube Kit Item No.
30.00 gpd	80 psi	E20MH81S6G1	**33TH67**	**33TH68**

45YR05

Peristaltic Chemical Metering Pumps

- Max. pressure: 125 psi
- Self-priming to 30 ft.

Durable, cast-aluminum pumps can handle abrasive slurries and aggressive chemicals in most metering, dosing, and transfer applications. No moving parts come into contact with the chemical being metered. Feature stainless steel rollers supported by sealed ball bearings that compress the hose in a more efficient design than frictional shoe-type pumps. Models are positive displacement-style that require no valves to operate and have a stainless steel drive shaft, foot bracket, hardware, and hose fittings for long life. The premium, heat-treated and ground hypoid gearing provides greater efficiency and more reliable performance. The gear motor includes a hollow shaft that allows you to remove the roller assembly if required. Pumps are reversible and can be used to clear blocked lines. Include shim kit and hose lubricant. Hardwired installation required. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. UL and C-UL Listed, CE Certified.

WARNING: Use only with nonflammable liquids compatible with pump component materials and in nonflammable/nonexplosive atmospheres.

Flow Rate	Tubing Material	Pump RPM	115V, 1 Phase Item No.	115/230V, 1 Phase Item No.	230V, 3 Phase Item No.	230/460V, 3 Phase Item No.
Pumps						
0.16 gpm/0.60Lpm	EPDM	17 RPM	**45YR05**	**45YR26**	**45YR47**	**45YR68**
0.20 gpm/0.80Lpm	EPDM	21 RPM	**45YR04**	**45YR25**	**45YR46**	**45YR67**
0.27 gpm/1.00Lpm	EPDM	28 RPM	**45YR03**	**45YR24**	**45YR45**	**45YR66**
0.32 gpm/1.20Lpm	EPDM	34 RPM	**45YR02**	**45YR23**	**45YR44**	**45YR65**
0.40 gpm/1.50Lpm	EPDM	42 RPM	**45YR01**	**45YR22**	**45YR43**	**45YR64**
0.53 gpm/2.00Lpm	EPDM	56 RPM	**45YP99**	**45YR21**	**45YR42**	**45YR63**
0.80 gpm/3.00Lpm	EPDM	84 RPM	**45YP98**	**45YR20**	**45YR41**	**45YR62**
0.16 gpm/0.60Lpm	Nitrile	17 RPM	**45YP97**	**45YR19**	**45YR40**	**45YR61**
0.20 gpm/0.80Lpm	Nitrile	21 RPM	**45YP96**	**45YR18**	**45YR39**	**45YR60**
0.27 gpm/1.00Lpm	Nitrile	28 RPM	**45YP95**	**45YR17**	**45YR38**	**45YR59**
0.32 gpm/1.20Lpm	Nitrile	34 RPM	**45YP94**	**45YR16**	**45YR37**	**45YR58**
0.40 gpm/1.50Lpm	Nitrile	42 RPM	**45YP93**	**45YR15**	**45YR36**	**45YR57**
0.53 gpm/2.00Lpm	Nitrile	56 RPM	**45YP92**	**45YR14**	**45YR35**	**45YR56**
0.80 gpm/3.00Lpm	Nitrile	84 RPM	**45YP91**	**45YR13**	**45YR34**	**45YR55**
0.16 gpm/0.60Lpm	Rubber	17 RPM	**45YP90**	**45YR12**	**45YR33**	**45YR54**
0.20 gpm/0.80Lpm	Rubber	21 RPM	**45YP89**	**45YR11**	**45YR32**	**45YR53**
0.27 gpm/1.00Lpm	Rubber	28 RPM	**45YP88**	**45YR10**	**45YR31**	**45YR52**
0.32 gpm/1.20Lpm	Rubber	34 RPM	**45YP87**	**45YR09**	**45YR30**	**45YR51**
0.40 gpm/1.50Lpm	Rubber	42 RPM	**45YP86**	**45YR08**	**45YR29**	**45YR50**
0.53 gpm/2.00Lpm	Rubber	56 RPM	**45YP85**	**45YR07**	**45YR28**	**45YR49**
0.80 gpm/3.00Lpm	Rubber	84 RPM	**45YP84**	**45YR06**	**45YR27**	**45YR48**

Description	Includes	Material of Construc.	Item No.
Accessories			
Hose	(2) Hose Clamps	Natural Rubber	**45YP79**
Hose	(2) Hose Clamps	Buna Nitrile	**45YP80**
Hose	(2) Hose Clamps	EPDM	**45YP81**
Lubricant, 0.25 gal Gal.	—	Glycerin	**45YP82**
Shim Kit	—	Stainless Steel	**45YP83**

Plastic-Body Permanent Magnet Circulator Pumps

38L996

- 1-phase
- 60/50 Hz, continuous-duty motor

Small footprint and lightweight construction allow easy installation for water circulation and liquid transfer. Semiopen impeller. Ceramic bearing system. Each includes a 4-ft. power cord.

NORYL

Have a shaftless, sealless electronically commutated motor (ECM). Energy-efficient ECM/permanent magnet technology saves up to 68% on electricity. Noryl impeller. 5JKG2 and 5JKG6 max. working pressure: 50 psi; 100-240V. 5JKF8 max. working pressure: 29 psi; 115V.

NORYL/ALUMINUM

Pump motor has a stainless steel shaft and screw, with EPDM O-ring seal. Nylon and 316 stainless steel impeller. Max. working pressure: 29 psi. 115V.

HP	Amps	Inlet	Outlet	GPM of Water @ Total Ft. of Head+ 5	10	15	20	Max. Head	L	W	Max. Liquid Temp.	Item No.
Noryl												
1⁄25	0.24	¾ HB	¾ in HB	2	—	—	—	13 ft	6 in	3 in	140 °F	**5JKG2**
1⁄25	0.40	¾ in HB	¾ in HB	—	5.8	—	—	14 ft	6 in	3 in	140 °F	**5JKG6**
1⁄25	0.6	¾ HB	¾ in HB	10.1	7.3	4.6	1.8	22 ½ ft	6 in	4 5⁄16 in	140 °F	**5JKF8**
Noryl/Aluminum												
1⁄25	0.52	¾ in HB	¾ in HB	10.5	8.2	5	—	18 7⁄10 ft	6 in	4 5⁄16 in	140 °F	**38L995**
1⁄25	0.56	¾ in T	¾ in T	10	8	5.5	—	18 7⁄10 ft	6 in	4 5⁄16 in	140 °F	**38L996**

+ To convert to psi, divide total feet of head by 2.31.

Centrifugal and Positive Displacement Pumps

5PXX0

Dayton, Centrifugal—Pumps are suitable for use in liquid transfer and irrigation. They have semiopen impellers and are not self-priming, except 5PXX5 is self-priming up to 4.5 ft.

Ports for 5PXW8 to 5PXX1 and 5PXX4 can be rotated in 180° increments, 5PXX5 in 90° increments. 5PXX3 has a totally enclosed fan-cooled (TEFC), capacitor-start induction motor.

- Intermittent duty, except No. 5PXX3 is continuous
- ⅛ HP

Meziere, Centrifugal and Positive Displacement—Centrifugal models are suitable for use with 50% water/glycol mix. Designed to provide high flow at low head pressure. Brush motor is housed in open dripproof (ODP) enclosure. 21C949 Positive Displacement Pump has a preset pressure relief valve, steel gerotor, and double-lip seal. Suitable for use with Dexron II or equivalent oil.

- Continuous duty
- 5⁄16 HP, except 21C952 is ⅕ HP

Hose Inside Dia.	Connec. Size	Max. Pressure	For Use With	Brand	Mfr. Model	Item No.
Hose Adapter						
1 in	1 in NPT	100	21C953	Meziere	WPX807	**21C962**
1 ¼ in	1½ in NPT	100	Mfr. No. WPX752, WPX753, WPX755	Meziere	WPX815	**21C970**

Voltage	Inlet	GPM of Water @ 0 ft. of Head	Max. Head	Max. Liquid Temp.	L	H	Impeller Material	Seal Material	Housing Material	Mfr. Model	Item No.
Dayton, Centrifugal											
12V DC	¾ in NPT	13	17 ft	180 °F	7 ⅛ in	3 ⅜ in	Brass	Carbon/Ceramic, Stainless Steel, Viton	Brass	5PXX4	**5PXX4**
12V DC	¾ in NPT	19	14 ft	180 °F	9 ⅜ in	5 in	Brass	Carbon/Ceramic, Stainless Steel, Viton	Brass	5PXX5	**5PXX5**
12V DC	¾ in NPT	13	17 ft	180 °F	7 ⅛ in	3 ⅜ in	Stainless Steel	Carbon/Ceramic, Stainless Steel, Viton	Stainless Steel	5PXX0	**5PXX0**
24V DC	¾ in NPT	13	17 ft	180 °F	7 ⅛ in	3 ⅜ in	Brass	Carbon/Ceramic, Stainless Steel, Viton	Brass	5PXW8	**5PXW8**
24V DC	¾ in NPT	13	17 ft	180 °F	7 ⅛ in	3 ⅜ in	Stainless Steel	Carbon/Ceramic, Stainless Steel, Viton	Stainless Steel	5PXX1	**5PXX1**
36V DC	¾ in NPT	13	17 ft	180 °F	7 ⅛ in	3 ⅜ in	Brass	Carbon/Ceramic, Stainless Steel, Viton	Brass	5PXW9	**5PXW9**
115V AC	¾ in NPT	9	14 ½ ft	180 °F	10 in	6 ⅝ in	Brass	Carbon/Ceramic, Stainless Steel, Viton	Brass	5PXX3	**5PXX3**
Meziere, Centrifugal											
12V DC	¾ in NPT	25	12 ⅖ ft	250 °F	3 11⁄16 in	7 3⁄16 in	Aluminum	Carbon/Ceramic	Aluminum	WPX750	**21C952**
12V DC	1½ in NPT	55	12 ⅕ ft	250 °F	4 ⅞ in	6 5⁄16 in	Aluminum	Carbon/Ceramic	Aluminum	WPX753	**21C954**
12V DC		55	12 ⅕ ft	250 °F	4 ⅞ in	6 5⁄16 in	Aluminum	Carbon/Ceramic	Aluminum	WPX755	**21C955**
Meziere, Positive Displacement, 2 Stage											
12V DC	⅜ in NPT	2.05	92 ft	185 °F	4 in	5 5⁄16 in	Steel	Viton	Aluminum	WPX702	**21C949**

Electric-Operated Diaphragm Pumps

- Polypropylene housing
- Sealed motor with run-dry capability

12VDC, WATER-BASED

Permanent magnet ball-bearing motors.

Automatic Demand Pumps—Max. water temp.: 160°F. Meet U.S. Coast Guard (USCG) electrical standards.

Complete Water System—Includes pump and precharged 1-gal. pressurized bladder tank with air valve. FDA-approved materials.

Washdown Pump—Meets USC electrical standards.

Water System Pump—NSF Certified for potable water.

Water System Pump with Valve—Features quick-disconnect plug-in ports, built-in bypass valve, and pressure switch.

12VDC, PETROLEUM-BASED

Suitable for liquid transfer, dewatering circulation, oil changing (warm), and diesel fuel transfer. Meet USCG, ISO 8846 for diesel fuel transfer.

115VAC, WATER- AND PETROLEUM-BASED

Sealed pressure demand switch. UL Listed, UL Recognized, CSA Certified.

INLINE STRAINERS

Recommended for freshwater applications. Stainless steel screen. Mesh size 35. Max. pressure @ 100°F: 70 psi.

4YD42

4YD41

Description	Inlet/ Outlet	Flow	Pressure On	Pressure Off	Max. Pressure	Diaphragm Material	Mfr. Model	Item No.
12VDC, Water-Based Applications								
Automatic Demand Pump	⅜ in HB	1 gpm	25 psi	35 psi	35 psi	Santoprene	LFP122201K	**4YD54**
	⅜ in FNPT	2.3 gpm	20 psi	30 psi	30 psi		02100-12C	**2P366**
	⅜ in HB	2.9 gpm	30 psi	50 psi	50 psi		R3526144A	**2XE90**
Complete Water System	¾ in HB	4.5 gpm	30 psi	40 psi	40 psi		02840100G	**4YD37**
Washdown Pump	¾ in	4.5 gpm	30 psi	40 psi	40 psi		04325143S	**4YD42**
Water System Pump	⅜ in HB	1 gpm	25 psi	35 psi	35 psi		LFP122202K	**4YD55**
Water System Pump w/Valve	½ in HB	3.3 gpm	25 psi	35 psi	35 psi		04405143S	**4YD43**
12VDC, Petroleum-Based Applications								
Bilge/Sump Pump	¾ in	5 gpm	—	—	25 psi	Geolast	04125114G	**4YD39**
General-Purpose Pump	¾ in	3.3 gpm	—	—	25 psi		04105501G	**4YD38**
	¾ in	5 gpm	—	—	25 psi		04125502G	**4YD40**
115VAC, Water-Based Applications								
Automatic Demand Pump	⅜ in FNPT	2 gpm	40 psi	60 psi	60 psi	Buna	D3835B5011A	**2XE93**
	⅜ in FNPT	2 gpm	40 psi	60 psi	60 psi	EPDM	D3835H5011A	**2XE94**
	⅜ in FNPT	2 gpm	40 psi	60 psi	60 psi	Viton	D3835V5011A	**2XE91**
	⅜ in FNPT	2 gpm	80 psi	100 psi	100 psi	EPDM	D3835E7011A	**2XE92**
General-Purpose Demand Pump	½ in HB	3.5 gpm	30 psi	45 psi	45 psi	Santoprene	04300501G	**4YD41**

Pipe Size	L	H	Flow Rate	Barbed Connection Mfr. Model	Barbed Connection Item No.	NPT Connection Mfr. Model	NPT Connection Item No.
Polypropylene Inline Strainer							
⅜ in	3 ⅜ in	2 ¼ in	2 gpm	01740003G	**4YD31**	—	—
½ in	3 ⅝ in	2 ¼ in	4 gpm	01740002G	**4YD30**	01740004G	**4YD32**
¾ in	3 in	2 ¼ in	7 gpm	01740000G	**4YD29**	—	—

Evaporative Cooler/Machine Coolant Pumps

EVAPORATIVE COOLER PUMPS

Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

Polystyrene—Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

- Max. temp.: 122°F
- Max. viscosity: 50 SSU
- 3000 rpm motors

Brass/Bronze—Used in evaporative coolers, displays, laboratories, and similar water transfer applications.

- Max. temp.: 200°F
- Max. viscosity: 500 SSU
- 1725 rpm TEFC motors
- Brass pump body, bronze impeller

COOLANT PUMPS, CAST IRON

- Max. temp.: 200°F
- Max. viscosity: 500 SSU
- 1750 rpm, TEFC motors
- 304 stainless steel impeller, carbon steel shaft (4JPH3 and 4JPH4 have stainless steel shaft)

Used for machining lubricants, coolants, flushing, and circulation. Mounting brackets (sold separately) clamp to pump column at desired position for optimal pump depth.

3CB58

4JPG4

4JPH3

HP	Voltage	Motor Type*	Cord	CFM	Inlet Outlet	GPM of Water @ ft. of Head: 1	3	5	9	12	Shut-Off	L	H	Max. Immersion Depth	Brand	Mfr. Model	Item No.
Evaporative Cooler Pump, Polystyrene																	
1⁄70 hp	115	Shaded Pole	4 ft	5000-7500	½ in, ⅝ in, ¾ in	5.1 gpm	4.4 gpm	3.5 gpm	0.66 gpm	—	9.5 ft	4 ¼ in	9 in	4 in	Little Giant	540005	**3CB58**
	230		4 ft	5000-7500	½ in, ⅝ in, ¾ in	5.1 gpm	4.4 gpm	3.5 gpm	0.66 gpm	—	9.5 ft	4 ¼ in	9 in	4 in	Little Giant	540015	**3CB59**
1⁄50 hp	115		4 ft	7500-15,000	⅝ in, ¾ in	8.3 gpm	7.3 gpm	6.1 gpm	2.91 gpm	—	11 ft	4 ¼ in	9 in	4 in	Little Giant	541005	**3CB60**
	230		4 ft	7500-15,000	⅝ in, ¾ in	8.3 gpm	7.3 gpm	6.1 gpm	2.91 gpm	—	11 ft	4 ¼ in	9 in	4 in	Little Giant	541015	**3CB61**
1⁄30 hp	115		4 ft	15,000-21,000	⅝ in, ¾ in	9.3 gpm	8.5 gpm	7.6 gpm	4.78 gpm	—	12 ft	4 ¼ in	9 in	4 in	Little Giant	542005	**4NY30**
	230		4 ft	15,000-21,000	⅝ in, ¾ in	9.3 gpm	8.5 gpm	7.6 gpm	4.78 gpm	—	12 ft	4 ¼ in	9 in	4 in	Little Giant	542015	**4NY31**
Evaporative Cooler and Coolant Pump, Brass/Bronze																	
1⁄25 hp	115	PSC	3 ft	—	⅜ in	7.1 gpm	6.6 gpm	5.5 gpm	—	—	7.8 ft	5 ¼ in	12 ⅜ in	6 in	Dayton	—	**4JPG4**
	230		3 ft	—	⅜ in	7.1 gpm	6.6 gpm	5.5 gpm	—	—	7.8 ft	5 ¼ in	12 ⅜ in	6 in	Dayton	—	**4JPG5**
Coolant Pump, Cast-Iron																	
⅛ hp	115/230	PSC	—	—	¾ in	12.5 gpm	11.3 gpm	9.8 gpm	4.6 gpm	—	10 ft	5 13⁄16 in	14 1⁄16 in	6 ⅜ in	Dayton	—	**4JPH3**
	230	3 Phase	—	—	¾ in	12.5 gpm	11.3 gpm	9.8 gpm	4.6 gpm	—	10 ft	5 13⁄16 in	14 1⁄16 in	6 ⅜ in	Dayton	—	**4JPH4**
¼ hp	230/460		—	—	1 ¼ in	55.5 gpm	54 gpm	52 gpm	45.5 gpm	38.2 gpm	18 ft	11 in	21 7⁄16 in	8 ¼ in	Dayton	—	**4JPG9**
⅓ hp	230/460		—	—	1 ¼ in	57.6 gpm	56 gpm	54 gpm	47.3 gpm	41 gpm	21.3 ft	11 in	19 7⁄16 in	6 ⅜ in	Dayton	—	**4JPG7**
½ hp	230/460		—	—	1 ½ in	74 gpm	72.3 gpm	70.3 gpm	64.8 gpm	59.3 gpm	26.2 ft	11 13⁄16 in	25 11⁄16 in	12 ¼ in	Dayton	—	**4JPH8**
¾ hp	230/460		—	—	1 ½ in	83.5 gpm	82 gpm	80.2 gpm	74.7 gpm	68.7 gpm	27.9 ft	11 13⁄16 in	25 11⁄16 in	12 ¼ in	Dayton	—	**4JPH6**
Mounting Bracket																	
For Use With 4JPG6 to 4JPG9, 4JPH5 to 4JPH8															Dayton	—	**4JPH1**
For Use With 4JPH3, 4JPH4															Dayton	—	**4JPH2**

** PSC = permanent split capacitor.*

Scan. Order. Done.
Details on page A1.

Suction 3P726

Suction 3GRU6

Immersion 3P744

Immersion 3GRV5

Fuji Electric Dayton

Coolant Pumps

- 3450 rpm motors
- Cast-iron bodies and volutes

Circulate coolant and spray cutting oil. Replacement filters on Grainger.com, search for coolant pump filters and cartridges. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

SUCTION

Mount above liquid level in all locations. Pumps require initial priming. Feature mechanical seals with carbon/ceramic shaft seal, Buna N elastomers, and steel springs. For all types of machines, except grinders.

Fuji—For use with cutting oil only. Install where ambient temp. range is -0°C to 40°C. For indoor use only.

- Max. fluid temp.: 104°F
- Max. viscosity: 340 SSU
- Max. suction lift: 2.3 ft.

Dayton—Mount pump upright only. Pump motor is not designed for immersion in liquid.

- Max. fluid temp.: 180°F
- Max. viscosity: 500 SSU
- Max. suction lift: 2 ft.

IMMERSION

- No bearings, seals, or packing
- Have outlets only

Ideal for pumping liquids with fine contaminants and can be run dry. For all types of machines, including grinders, and for applications with higher temperatures.

Fuji—For use with cutting oil only. Install where ambient temp. range is -20°C to 40°C.

- Max. fluid temp.: 200°F
- Max. viscosity: 683 SSU

Dayton—Pump motor is not suitable for immersion in liquid. Mount pump upright only.

- Max. fluid temp.: 180°F
- Max. viscosity: 500 SSU

HP	Phase	Voltage	Amps	Impeller Material*	Inlet/ Outlet (in.)	GPM of Water @ Total ft. of Head 5	10	15	20	30	40	Shut-Off (ft.)	L (in.)	H (in.)	Max. Immersion Depth (in.)	Bolt Circle Dia. (in.)	Brand	Mfr. Model	Item No.
Suction																			
1⁄20 hp	3	230/460	0.27/0.135	Plastic	¼	7.2 gp m	5.9 gpm	3.8 gpm	—	—	—	19	7 ¼	7 3⁄16	—	5.11	Fuji Electric	VKN-043A-4Z	**3P726**
1⁄12 hp	3	230/460	0.35/0.175	CB	⅜	8.3 gpm	5.9 gpm	4.7 gpm	—	—	—	19	8 ⅜	8 ⅛	—	5.2	Fuji Electric	VKN-053A-4Z	**3P727**
⅛ hp	3	230/460	0.50/0.25	CB	⅜	17.1 gpm	14.4 gpm	10.6 gpm	—	—	—	21	8 ⅜	8 ⅛	—	5.2	Fuji Electric	VKN-063A-4Z	**3P728**
⅛ hp	1	115/230	.7/.35	Plastic	⅜	8 gpm	5 gpm	—	—	—	—	13	5 ½	6 ⅞	—	5.5	Dayton	3GRU6	**3GRU6**
⅛ hp	3	230/460	.32/.19	Plastic	⅜	8 gpm	5 gpm	—	—	—	—	13	5 ½	6 ⅞	—	5.5	Dayton	3GRU7	**3GRU7**
¼ hp	3	230/460	1/0.5	CB	½	—	32 gpm	28.5 gpm	22 gpm	11 gpm	—	34	9 ⅛	9 1⁄16	—	6.3	Fuji Electric	VKN-073A-4Z	**3P741**
¼ hp	1	115/230	3.0/1.5	Plastic	¾	20 gpm	20 gpm	17 gpm	14 gpm	5 gpm	—	32	7 ⅜	9	—	7.25	Dayton	3GRU8	**3GRU8**
¼ hp	3	230/460	.8/.4	Plastic	¾	20 gpm	20 gpm	17 gpm	14 gpm	5 gpm	—	32	7 ⅜	9	—	7.25	Dayton	3GRU9	**3GRU9**
⅓ hp	3	230/460	1.5/0.75	Plastic	¾	54 gpm	47 gpm	36 gpm	28.5 gpm	20 gpm	—	34	9 ⅝	9 ⅝	—	6.3	Fuji Electric	VKN-083A-4Z	**3P742**
½ hp	3	230/460	2.4/1.2	CB	1	62 gpm	59 gpm	55 gpm	51 gpm	40.5 gpm	—	40	12 ¼	12 7⁄16	—	7.09	Fuji Electric	VKN-093A-4Z	**3P743**
½ hp	1	115/230	5/2.5	AL	¾	32 gpm	32 gpm	30 gpm	26 gpm	18 gpm	5 gpm	42	7 3⁄16	12 ¼	—	8.06	Dayton	3GRV1	**3GRV1**
½ hp	3	230/460	1.8/1.2	AL	¾	32 gpm	32 gpm	30 gpm	26 gpm	18 gpm	5 gpm	42	7 ⅜	12 ¼	—	8.06	Dayton	3GRV2	**3GRV2**
¾ hp	3	230/460	2.6/1.6	AL	1	43 gpm	43 gpm	43 gpm	43 gpm	35 gpm	25 gpm	55	8	12 ¼	—	8.62	Dayton	3GRV3	**3GRV3**
1 hp	3	230/460	3.2/1.9	AL	1	48 gpm	48 gpm	48 gpm	48 gpm	40 gpm	30 gpm	60	8	14	—	8.62	Dayton	3GRV4	**3GRV4**
Immersion																			
1⁄20 hp	3	230/460	0.27/0.135	CB	¼	7.2 gpm	5.9 gpm	3.8 gpm	—	—	—	19	11 ¾	11 ¾	5 ⅞	5.12	Fuji Electric	VKP-043A-4Z	**3P744**
1⁄12 hp	3	230/460	0.35/0.175	CB	⅜	8.3 gpm	5.9 gpm	4.7 gpm	—	—	—	19	12 ¼	12 ¼	6	2 at 5.12 and 2 at 5.2	Fuji Electric	VKP-053A-4Z	**3P745**
⅛ hp	3	230/460	0.50/0.25	CB	⅜	17.1 gpm	14.4 gpm	10.6 gpm	—	—	—	21	12 ¼	12 ¼	5 ⅞	2 at 5.2 and 2 at 5.28	Fuji Electric	VKP-063A-4Z	**3P746**
⅛ hp	1	115/230	.7/.35	Plastic	⅜	9 gpm	5 gpm	—	—	—	—	13	3 ½	11 ¾	6	5	Dayton	3GRV5	**3GRV5**
⅛ hp	3	230/460	.32/.19	Plastic	⅜	9 gpm	5 gpm	—	—	—	—	13	3 ½	11 ¾	6	5	Dayton	3GRV6	**3GRV6**
¼ hp	3	230/460	1/0.5	Plastic	½	—	32 gpm	28.5 gpm	22 gpm	11 gpm	—	34	14 ¼	14 7⁄32	7	2 at 6.3 and 2 at 5.28	Fuji Electric	VKP-073A-4Z	**3P747**
¼ hp	1	115/230	3.0/1.5	Plastic	½	20 gpm	20 gpm	17 gpm	14 gpm	5 gpm	—	32	5	14 ⅞	7	6.37	Dayton	3GRV7	**3GRV7**
¼ hp	3	230/460	.8/.4	Plastic	½	20 gpm	20 gpm	17 gpm	14 gpm	5 gpm	—	32	5	14 ⅞	7	6.37	Dayton	3GRV8	**3GRV8**
⅓ hp	3	230/460	1.5/0.75	CB	¾	54 gpm	47 gpm	36 gpm	28.5 gpm	20 gpm	—	34	17 7⁄16	17 7⁄16	9 ⅞	2 at 6.3 and 2 at 6.69	Fuji Electric	VKP-083A-4Z	**3P748**
½ hp	3	230/460	2.4/1.2	CB	1	62 gpm	59 gpm	55 gpm	51 gpm	40.5 gpm	24 gpm	40	21 45⁄64	21 ¾	11	7.09	Fuji Electric	VKP-093A-4Z	**3P749**
½ hp	1	115/230	5/2.5	AL	¾	35 gpm	35 gpm	30 gpm	26 gpm	18 gpm	5 gpm	42	5 ⅜	18 ¾	9 ½	6.75	Dayton	3GRV9	**3GRV9**
½ hp	3	230/460	1.8/1.2	AL	¾	35 gpm	35 gpm	30 gpm	26 gpm	18 gpm	5 gpm	42	5 ⅜	18 ¾	9 ½	6.75	Dayton	3GRW1	**3GRW1**
¾ hp	3	230/460	2.6/1.6	AL	1	45 gpm	45 gpm	45 gpm	43 gpm	35 gpm	25 gpm	55	6	20 ½	11	7.83	Dayton	3GRW2	**3GRW2**
1 hp	3	230/460	3.2/1.9	AL	1	50 gpm	50 gpm	50 gpm	48 gpm	40 gpm	30 gpm	60	6	21 ⅞	11	7.83	Dayton	3GRW3	**3GRW3**

** AL = Aluminum, CB = Cast Bronze.*

2P345

7P078

Little GIANT

Machine Coolant Tanks and Pump/Tank Combinations

For use on small drill presses, tool grinders, tapping machines, cut-off saws, and small lathes.

Tanks—Include chip collector baffle, flex nozzle, and brass control valve. 5-gal. tank is polyethylene and includes 6-ft. plastic hose. 10-gal. tank is steel and has 4-ft. neoprene hose with brass nuts and deflector plate. Pump not included.

Polyethylene Pump/Tank Combinations—Flexible discharge hose has flow control valve. Removable screen and chip collector.

- Max. temp.: 120°F

HP	Volts	Amps	Inlet/ Outlet (in.)	Tank (gal.)	GPM of Water @ Total ft. of Head 1	3	5	10	Shut-Off (ft.)	Dim. (in.) L	W	H	Item No.
Tanks													
—	—	—	—	5	—	—	—	—	—	11	15½	8	**2P344**
—	—	—	—	10	—	—	—	—	—	10	25	11⅜	**2P345**
Polyethylene Pump/Tank Combinations													
1⁄150	115	1.1	¼	5	3.4	2.8	2	—	7.5	11	15½	8	**7P078**
1⁄150	115	1.1	¼	5	3.5	3	2.5	0.2	10.1	11	15½	8	**7P079**
1⁄50	115 V	1	¼	1	1.7	1.4	1.3	—	14	12	6	9⅜	**41A082**
1⁄40	115	1.7	¼	5	5.4	5	4.5	—	12.3	11	15½	8	**7P080**
1⁄15	115	3.2	½	5	8.3	7.25	5.6	3.5	17.3	11	15½	8	**7P081**
1⁄15	115	3.2	½	10	8.3	7.25	5.6	3.5	17.3	10	25	11⅜	**7P083**

Intermittent-Duty Roller Pumps

Dayton

- 4-roller models are coupled to a 12VDC motor
- Self-priming suction lift up to 3-ft. head
- Max. fluid temp.: 140°F
- ¾" FNPT inlet and outlet side ports

Pumps are designed for agricultural and lawn/garden chemical spraying, as well as various chemical transfer applications with nonflammable liquids, such as liquid fertilizers, insecticides, herbicides, and soil fumigants. They won't swell in water and they maintain performance with chemical carriers such as xylene. Counterclockwise pump rotation (facing pump shaft) can be easily reversed for gas engine drivers. (Gas engines must be gear-reduced or belt-driven down to desired pump speed.) Ni-Resist alloy offers better corrosion resistance than cast iron, while SilverCast custom alloy provides corrosion resistance with harsh chemicals such as herbicides.

All pumps have Super Rollers, Viton shaft seals, and double-sealed, heavy-duty ball bearings. 4-roller models also include drivers. 6- and 8-roller models adapt to tractor power take-offs. 3YB55 and 3YB56 have polypropylene rollers. PTO quick couplings are sold separately on Grainger.com.

4-Roller 3YB60

6-Roller 3YB42

ROLLER KITS

Roller replacement kits are for intermittent-duty roller pumps listed on this page. Include rollers, 2 Viton shaft seals, and one O-ring for end plate.

For Use With	Rollers	Type	Item No.
Roller Kits			
3YB60, 3YB61	4	Super Roller	**3YB59**
3YB42, 3YB55	6	Super Roller	**3YB40**
3YB43, 3YB44, 3YB56	8	Super Roller	**3YB41**
3YB42, 3YB55	6	Polypropylene	**3YB57**
3YB43, 3YB44, 3YB56	8	Polypropylene	**3YB58**

Performance with Water @ Required Amps

Type	Voltage	0 psi gpm	0 psi amps	10 psi gpm	10 psi amps	15 psi gpm	15 psi amps	25 psi gpm	25 psi amps	35 psi gpm	35 psi HP	45 psi gpm	45 psi HP	50 psi gpm	50 psi HP	L (in.)	W (in.)	H (in.)	Housing Material	Item No.
4-Roller	12V DC (Battery) Engine Off	6.3	10 A	5.8 gpm	12.5 A	5.6 gpm	13.7 A	5.2 gpm	16.7 A	4.8 gpm	20.3 A	4.4 gpm	24.1 A	4.2	25.7 A	12	5	5	Ni-Resist	**3YB60**
4-Roller	13.5V DC (Alternator) Engine Running	7.5	10.4 A	6.6 gpm	13 A	6.4 gpm	14.2 A	6 gpm	17.4 A	5.6 gpm	20.9 A	5.2 gpm	24.3 A	5.0	26.1 A	12	5	5	Silver Cast	**3YB61**

Performance with Water @ Required Motor HP

Type	RPM	0 psi gpm	0 psi HP	50 psi gpm	50 psi HP	100 psi gpm	100 psi HP	200 psi gpm	200 psi HP	300 psi gpm	300 psi HP	L (in.)	W (in.)	H (in.)	Shaft Dia. (in.)	Housing Material	Item No.
6-Roller	540 800 1200	9.714.521.8	0.080.130.30	8.012.720.1	0.380.550.90	7.212.019.1	0.680.981.51	5.610.517.3	1.291.862.84	4.39.115.7	1.912.774.17	5 11⁄32	6	5 1⁄32	⅝	Cast-Iron Silver Cast	**3YB42** **3YB55**
8-Roller	540 800 1000	12.018.322.5	0.330.891.56	11.117.522.0	0.741.261.78	10.316.921.3	1.251.952.53	8.615.520.0	2.263.404.2	7.113.718.0	3.304.906.10	6 13⁄16	6 ⅝	5 15⁄16	15⁄16	Cast-Iron Ni-Resist Silver Cast	**3YB43** **3YB44** **3YB56**

High-Pressure Triplex Pumps

Dayton | AR NORTH AMERICA First Choice When Quality Matters

- Max. fluid temp: 140°F
- Concentric ceramic plungers
- Continuously lubricated seals

Suitable for high-pressure water applications, including car wash, pressure wash, sewer jetting, and cooling misting. Forged brass manifold has high-grade head bolts for added protection and strength. Feature a precision die-cast crankcase and stainless steel valves, plus oversize bearings and connecting rods for heavy load disbursement. 1MDB3 and 1MDB2 have 316L stainless steel manifold and Viton seals.

Direct-Mount, Electric Motor Pumps have standard C-face mounting.

See page 1591 for pressure washer accessories.

New installations require a Pump Rail Kit 4YNP7, sold separately on this page.

4WXX2

4WXW4

Flow Capacity (gpm)	RPM	500	1000	1500	2000	2500	3000	3500	4000	5000	Shaft Dia.	Inlet Port	Discharge Port	L (in.)	W (in.)	H (in.)	Brand	Item No.
		HP Required @ Various Pressure (psi)*																
Belt-Drive, Electric Motor or Gasoline Engine																		
2.5 gpm	1,750 RPM	0.9 hp	1.7 hp	2.6 hp	3.4 hp	4.3 hp	—	—	—	—	24 mm	½ in F	⅜ in F	7.2	7.9	4.9	Dayton	**4WXW6**
3 gpm	1,750 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	—	—	—	—	24 mm	½ in F	⅜ in F	7.2	7.9	4.9	Dayton	**4WXV7**
3.5 gpm	1,750 RPM	1.2 hp	2.4 hp	3.6 hp	4.8 hp	6 hp	—	—	—	—	24 mm	½ in F	⅜ in F	7.2	7.9	4.9	Dayton	**4WXV8**
4 gpm	1,450 RPM	1.4 hp	2.7 hp	4.1 hp	5.5 hp	6.9 hp	8.2 hp	9.6 hp	11 hp	13.7 hp	24 mm	½ in F	⅜ in F	13.3	9.7	7.3	Dayton	**4WXX1**
4 gpm	1,750 RPM	1.4 hp	2.8 hp	4.2 hp	5.5 hp	6.9 hp	8.3 hp	—	—	—	24 mm	½ in F	⅜ in F	8.8	8.6	5	Dayton	**5ZNT5**
4 gpm	1,450 RPM	1.4 hp	2.8 hp	4.2 hp	5.5 hp	6.9 hp	8.3 hp	—	—	—	24 mm	½ in F	⅜ in F	8.8	8.6	5	Dayton	**5ZNU1**
4 gpm	1,750 RPM	1.4 hp	2.7 hp	4.1 hp	5.5 hp	6.9 hp	8.2 hp	9.6 hp	11 hp	—	24 mm	½ in F	⅜ in F	9.9	7.6	4.9	Dayton	**1MCX9**
4.2 gpm	1,750 RPM	1.4 hp	2.9 hp	4.3 hp	5.8 hp	7.2 hp	8.5 hp	—	—	—	24 mm	½ in F	⅜ in F	9.9	7.7	4.9	Dayton	**1MDB3** †
4.8 gpm	1,750 RPM	1.6 hp	3.3 hp	4.9 hp	6.6 hp	8.2 hp	9.9 hp	11.5 hp	13.2 hp	—	24 mm	½ in F	⅜ in F	9.9	7.6	4.9	Dayton	**1MCX7**
5 gpm	1,526 RPM	1.7 hp	4.1 hp	6.1 hp	8.2 hp	10.2 hp	12.3 hp	14.3 hp	16.4 hp	—	24 mm	½ in F	⅜ in F	9.9	7.6	4.9	Dayton	**4WXW8**
5.5 gpm	1,450 RPM	1.9 hp	3.8 hp	5.7 hp	7.5 hp	9.4 hp	11.3 hp	13.2 hp	15.1 hp	18.9 hp	24 mm	½ in F	⅜ in F	12.2	9.7	5.8	Dayton	**1MCY1**
6.6 gpm	1,750 RPM	2.3 hp	4.5 hp	6.8 hp	9.1 hp	11.3 hp	13.6 hp	15.9 hp	18.1 hp	—	24 mm	¾ in F	⅜ in F	12.2	9.7	5.8	Dayton	**1MCX8**
7.9 gpm	1,000 RPM	2.7 hp	5.4 hp	8.1 hp	10.8 hp	13.6 hp	16.3 hp	19 hp	21.7 hp	27.1 hp	35 mm	¾ in F	½ in F	22.7	18.1	9.1	A.R. North America	**4WXX2** ‡
8 gpm	1,750 RPM	2.7 hp	5.5 hp	8.2 hp	11 hp	13.7 hp	16.5 hp	19.2 hp	—	—	24 mm	¾ in F	⅜ in F	12.2	9.7	5.8	Dayton	**1MCY2**
9 gpm	1,750 RPM	3.1 hp	6.2 hp	9.3 hp	12.4 hp	15.4 hp	18.5 hp	—	—	—	24 mm	¾ in F	⅜ in F	12.2	9.7	7.0	Dayton	**4WXW9**
11 gpm	1,450 RPM	3.8 hp	7.5 hp	11.3 hp	15.1 hp	—	—	—	—	—	24 mm	¾ in F	⅜ in F	12.2	9.7	5.8	Dayton	**1MDB1**
18 gpm	1,000 RPM	6.2 hp	12.4 hp	18.5 hp	24.7 hp	30.9 hp	37.1 hp	43.2 hp	49.4 hp	—	35 mm	1½ in F	1 in F	22.1	18.1	9.1	A.R. North America	**4WXX4**
36 gpm	800 RPM	12.4 hp	24.7 hp	37.1 hp	—	—	—	—	—	—	35 mm	1½ in F	1 in F	22.1	18.1	9.1	A.R. North America	**4WXX3**
Direct-Mount, Electric Motor																		
2 gpm	1,750 RPM	0.7 hp	1.4 hp	2.1 hp	2.7 hp	3.4 hp	—	—	—	—	⅝ in	½ in F	⅜ in F	7.7	7.2	5.5	Dayton	**4WXW2**
2 gpm	3,450 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	—	—	—	—	⅝ in	½ in F	⅜ in F	7.7	7.2	5.5	Dayton	**4WXW3**
3 gpm	1,750 RPM	1 hp	2 hp	3.1 hp	4.1 hp	5.2 hp	—	—	—	—	⅝ in	½ in F	⅜ in F	8.9	7.0	5.5	Dayton	**1MDB2** †
3 gpm	1,750 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	—	—	—	—	⅝ in	½ in F	⅜ in F	7.7	7.2	5.5	Dayton	**4WXW4**
3 gpm	3,450 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	—	—	—	—	⅝ in	½ in F	⅜ in F	7.7	7.2	5.5	Dayton	**4WXW5**
3 gpm	1,750 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	6.2 hp	—	—	—	1 ⅛ in	½ in F	⅜ in F	9.6	7.7	6.8	Dayton	**4WXX5**
3.5 gpm	1,750 RPM	1.2 hp	2.4 hp	3.6 hp	4.8 hp	6 hp	—	—	—	—	1 ⅛ in	½ in F	⅜ in F	9.6	7.7	6.8	Dayton	**4WXX6**
4 gpm	1,750 RPM	1.4 hp	2.8 hp	4.2 hp	5.5 hp	6.9 hp	8.3 hp	—	—	—	1 ⅛ in	½ in F	⅜ in F	8.8	8.7	6.8	Dayton	**5ZNT9**
Direct-Mount, Gasoline Engine																		
2 gpm	3,400 RPM	0.9 hp	1.7 hp	2.6 hp	3.4 hp	4.3 hp	—	—	—	—	¾ in	¾" GH	22 mm	7.2	6.8	6	Dayton	**1MDA9** #
2.5 gpm	3,400 RPM	1.1 hp	2.2 hp	3.3 hp	4.4 hp	5.6 hp	—	—	—	—	¾ in	½ in F	⅜ in F	7.2	7.5	4.9	Dayton	**4WXV9**
2.5 gpm	3,400 RPM	1.1 hp	2.2 hp	3.3 hp	4.4 hp	5.6 hp	6.5 hp	—	—	—	¾ in	¾" GH	22 mm	7.1	5.5	6	Dayton	**4WXW7** #
2.5 gpm	3,400 RPM	1.1 hp	2.2 hp	3.3 hp	4.4 hp	5.6 hp	—	—	—	—	⅞ in	¾" GH	22 mm	6.3	9.2	6	Dayton	**4WXX9** # **
3 gpm	3,400 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	—	—	—	—	¾ in	½ in F	⅜ in F	7.2	7.5	4.9	Dayton	**4WXW1**
3 gpm	3,400 RPM	1 hp	2.1 hp	3.1 hp	4.1 hp	5.1 hp	6.2 hp	—	—	—	¾ in	⅜ in F	⅜ in F	9.7	6.7	5.7	Dayton	**4WXX7**
3 gpm	3,400 RPM	1.1 hp	2.1 hp	3.1 hp	4.2 hp	5.2 hp	6.2 hp	7.2 hp	—	—	1 in	½ in F	⅜ in F	8.8	9.5	6.5	Dayton	**5ZNT6**
3.5 gpm	3,400 RPM	1.2 hp	2.4 hp	3.6 hp	4.8 hp	6 hp	7.2 hp	8.4 hp	—	—	1 in	½ in F	⅜ in F	8.8	9.5	6.5	Dayton	**5ZNT7**
4 gpm	3,400 RPM	2.1 hp	4.1 hp	6.1 hp	8.2 hp	10.2 hp	12.3 hp	14.3 hp	16.4 hp	—	1 in	½ in F	⅜ in F	9.7	9.1	5.9	Dayton	**1MCY8**
4 gpm	3,400 RPM	2.1 hp	4.1 hp	6.1 hp	8.2 hp	10.2 hp	12.3 hp	14.3 hp	16.4 hp	—	1 in	⅜ in F	⅜ in F	9.7	9.4	6.6	Dayton	**4WXX8** #
4 gpm	3,400 RPM	2.1 hp	4.1 hp	6.1 hp	8.2 hp	10.2 hp	12.3 hp	14.3 hp	16.4 hp	—	1 in	½ in F	⅜ in F	8.8	9.5	6.5	Dayton	**5ZNU0**

Material	For Use With	Dim.	Brand	Item No.
Pump Rail Kit				
Steel	Dayton Plunger Pump Models 1MCX4, 1MCX5, 1MCX6, 1MCX7, 1MCX9, 1MDB3, 4WXV7, 4WXV8, 4WXW6, 4WXW8, 5ZNT5, 5ZNU1 and AR North Pump Series XM and RK	2⅝ in H x 1¾ in W x 6½ in L	—	**4YNP7**

** HP required for belt drive is based on electric motor. † Stainless steel manifold. ‡ 4WXX2 is rated up to 7250 psi. # Includes unloader valve and chemical injector. ** For vertical gas engine mounting.*

For additional spray components and accessories, see page 1591.

3ACB9

3ACA9

Self-Priming Flexible-Impeller Pumps

- Replaceable impellers

No metal-to-metal contact. Excellent for fluid transfer, spraying, lawn/garden applications, filter systems, water drainage, and machine/equipment coolant recycling.

Note: Not to be run in a dry condition.

Dayton—Can be used with nonabrasive fluids in a wide range of commercial, industrial, and agricultural applications. Bronze pedestals can be easily installed with a capacitor-start electric motor with sufficient starting torque.

- Max. temp.: 180°F
- 1725 rpm motors (3ACA9 to 3ACB2 do not include motors)

Jabsco—Replaceable Viton impellers handle more-corrosive liquids.

- Max. temp.: 176°F 316 stainless steel and stainless steel, 180°F epoxy
- 1750 rpm 316 stainless steel, 3000 rpm epoxy and stainless steel

HP†	Voltage	Amps	Inlet/Outlet (in.)	NEMA Motor Frame	Seal	Impeller Material	GPM of Water Total ft. of Head 10	GPM of Water Total ft. of Head 30	Max. Head (ft.)	Max. Pressure (psi)	Suction Lift (ft.)	Max. SSU @ 1725 rpm*	Brand	Mfr. Model	Item No.
Pump w/Motor															
304 Stainless Steel															
⅓ hp	115/230	9.4/4.7	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	7.1 gpm	6.1 gpm	76	32.9 psi	10	5,000 SUS	Dayton	3ACC4	**3ACC4**
½ hp	115/230	11.2/5.6	¾ NPT	56YZ	Nitrile Lip	Nitrile	11.9 gpm	9.6 gpm	80	34.6 psi	10	5,000 SUS	Dayton	3ACC5	**3ACC5**
¾ hp	115/230	14.0/7.0	1 NPT	56YZ	Nitrile Lip	Nitrile	20.6 gpm	17.8 gpm	80	34.6 psi	10	5,000 SUS	Dayton	3ACC6	**3ACC6**
1 hp	115/230	14.4/7.2	1¼ NPT	56YZ	Nitrile Lip	Nitrile	25 gpm	22 gpm	85	36.7 psi	10	5,000 SUS	Dayton	3ACC7	**3ACC7**
1 ½ hp	115/230	18.6/9.3	1½ NPT	56YZ	Nitrile Lip	Nitrile	28 gpm	22 gpm	92	39.8 psi	10	5,000 SUS	Dayton	3ACC8	**3ACC8**
Brass															
⅓ hp	115/230	9.4/4.7	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	7.1 gpm	6.1 gpm	76	32.9 psi	10	5,000 SUS	Dayton	3ABZ4	**3ABZ4**
¾ hp	115/230	13.5/6.7	1 NPT	56YZ	Nitrile Lip	Nitrile	23 gpm	20.7 gpm	86	37.2 psi	16-20 Dry, 20-22 Wet	5,000 SUS	Dayton	3ACC1	**3ACC1**
1 hp	115/230	11.0/5.5	1¼ NPT	56YZ	Nitrile Lip	Nitrile	25 gpm	22 gpm	85	36.7 psi	10	5,000 SUS	Dayton	3ACD3	**3ACD3**
1 ½ hp	115/230	18.6/9.3	1½ NPT	56YZ	Nitrile Lip	Nitrile	28 gpm	22 gpm	92	39.8 psi	10	5,000 SUS	Dayton	3ACD4	**3ACD4**
Bronze															
⅓ hp	115/230	7.2/3.6	½ NPT x ¾ GHT	56YZ	Nitrile Lip	Nitrile	9.6 gpm	6.8 gpm	50	21.6 psi	16-20 Wet, 20-22 Wet	5,000 SUS	Dayton	3ACB9	**3ACB9**
½ hp	115/230	11.2/5.6	¾ NPT	56YZ	Nitrile Lip	Nitrile	11.9 gpm	9.6 gpm	80	34.6 psi	10	5,000 SUS	Dayton	3ABZ5	**3ABZ5**
¾ hp	115/230	14.0/7.0	1 NPT	56YZ	Nitrile Lip	Nitrile	20.6 gpm	17.8 gpm	80	34.6 psi	10	5,000 SUS	Dayton	3ABZ6	**3ABZ6**
Epoxy															
½ hp	115	8.2	½ (F)NPT	56C	—	Nitrile	11.3 gpm	9 gpm	48	21 psi	12-15 Dry, 18-22 Wet	2,500 SUS	Jabsco	17430-7000	**4UL34**

HP†	Inlet/Outlet (in.)	Seals	Impeller	GPM of Water @ 10 ft. of Head	GPM of Water @ 10 ft. of Head	Max. Head (ft.)	Max. Pressure (psi)	Max. SSU @ 1725 rpm*	Brand	Mfr. Model	Item No.
Pump Head, Close Coupled											
Bronze and Brass											
⅓ hp	½ NPT	Carbon, Ceramic	Nitrile	5.5 gpm	4.8 gpm	70	30.3 psi	5,000 SUS	Dayton	3ACA9	**3ACA9**
¾ hp	¾ NPT	Carbon, Ceramic	Nitrile	11.5 gpm	10.6 gpm	80	34.6 psi	5,000 SUS	Dayton	3ACB1	**3ACB1**
1 hp	1 NPT	Carbon, Ceramic	Nitrile	19.6 gpm	18 gpm	85	36.7 psi	5,000 SUS	Dayton	3ACB2	**3ACB2**

***** *Pedestal flow based at 1725 rpm, at stated horsepower. † Recommended HP.*

For Use With	Brand	Item No.
Replacement Flexible Impeller		
EPDM		
4UL38	Jabsco	**2XE60**
Neoprene		
Mfr. No. 30510-7000	Jabsco	**2XE55**
Mfr. No. 30520-7000	Jabsco	**2XE57**
Viton		
4UL37	Jabsco	**2XE56**
Mfr. No. 17430-7000	Jabsco	**2XE54**
Mfr. No. 30520-7000	Jabsco	**2XE59**
Replacement Impeller		
Neoprene		
3ACA9	Dayton	**3ACB6**
3ACB1	Dayton	**3ACB7**
3ACB2	Dayton	**3ACB8**

For Use With	Brand	Item No.
Nitrile		
3ACA4, 3ACA5, 3ACA6, 3ACA7, 3ACA8	Dayton	**3ACD9**
3ACA9	Dayton	**3ACB3**
3ACB1	Dayton	**3ACB4**
3ACB2	Dayton	**3ACB5**
Replacement Impeller/Sleeve Assembly		
Neoprene		
3ABZ4	Dayton	**3ACA1**
3ABZ5	Dayton	**3ACA2**
3ABZ6	Dayton	**3ACA3**
3ACB9	Dayton	**3ACE1**
3ACC1	Dayton	**3ACE2**
3ACD3	Dayton	**3ACD7**

For Use With	Brand	Item No.
Nitrile		
3ABZ4	Dayton	**3ABZ7**
3ABZ5	Dayton	**3ABZ8**
3ABZ6	Dayton	**3ABZ9**
3ACB9	Dayton	**3ACC2**
3ACC1	Dayton	**3ACC3**
3ACC4	Dayton	**3ACE3**
3ACC5	Dayton	**3ACE4**
3ACC6	Dayton	**3ACC9**
3ACC7	Dayton	**3ACD1**
3ACD3	Dayton	**3ACD5**

1MCZ7

1MDA1

High-Pressure Pump Accessories

Adjustable Chemical Injectors—In-line, corrosion-resistant injectors can be mounted downstream, after the pressure pump and regulating valve, to inject liquid detergents or cleaning agents. Intended for use with a double lance, rollover nozzle, or quick-connect nozzle. Brass, stainless steel, and ceramic construction with Buna N seals.

High-Pressure and Regulating Unloader Valves—Protect pump and system components from surge shock damage that can occur when spray guns are shut off at high pressure. Brass and stainless steel construction with Buna N seals.

Inlet Water Filter—Machined aluminum filter assures a clean water stream for any high-pressure pump. Filter is 50 mesh.

Regulating Pressure Relief Valve—Bypasses the required amount of water to maintain constant system pressure at all times, whether spray gun is open or closed. Brass and 300 stainless steel construction with Buna N seals.

Regulating Valves—Protect pumping systems from excess pressure. Brass bodies. Wetted materials: brass, stainless steel, Buna N, plastic, and steel on valves with male outlets; brass, stainless steel, Buna N, and steel on valves with female outlets.

1MDA1 and 1MDA2 have a bolt-on design with internal bypass system. 1MDA1 fits pumps 4WXV7 to 4WXV9 and 4WXW1 to 4WXW6. 1MDA2 fits pumps 4WXX5, 4WXX6, 5ZNT5 to 5ZNT7, 5ZNT9, 5ZNU0, and 5ZNU1.

1MDA3 and 1MDA4 feature a ¼" accessory port.

Safety Valve—For use as a secondary safety device to help keep pump and system pressure from reaching dangerous levels; must always be used with a pressure regulator or unloader. Adjustable range: 1000 to 4000 psi. ¾" hose barb discharge. Brass and 400 stainless steel construction with Delrin seals.

Thermal Valve—Maintains a max. water temp. of 140°F to protect pump from possible heat damage while in bypass mode. Brass construction with Buna N seals.

Water Check Valves—Brass and stainless steel construction with Buna N seals. Can be mounted in a vertical or horizontal position.

Size	Flow	Max. Water Pressure	L	W	Brand	Item No.
Water Check Valve						
¼ in	6.6 gpm	4500 psi	2 ⅛ in	⅞ in	Mecline	**20FV59**
⅜ in	10.5 gpm	5800 psi	2 21⁄64 in	1 1⁄16 in	Mecline	**20FV60**
½ in	21 gpm	5800 psi	3 1⁄32 in	1 11⁄32 in	Mecline	**20FV61**

Description	Inlet Port (in.)	Outlet Port (in.)	Bypass Port (in.)	Flow Range (gpm)	Max. Pressure (psi)	H (in.)	Max. Fluid Temp. (°F)	Brand	Item No.
Adjustable Chemical Injector	⅜ M	⅜ M	—	2 to 3	4,500 psi	3	200 F	Dayton	**1MCZ7**
Adjustable Chemical Injector	⅜ M	⅜ M	—	3 to 4	4,500 psi	3	200 F	Dayton	**1MCZ8**
Adjustable Chemical Injector	⅜ M	⅜ M	—	4 to 5.5	4,500 psi	3	200 F	Dayton	**1MCZ9**
High Pressure Unloader Valve	⅜ (M)NPT	⅜ NPT(M)	⅜ (F)NPT	0.5 to 8	2,900 psi	3 45⁄64	194 F	Mecline	**20FV57**
High Pressure Unloader Valve	½ (F)NPT	½ NPT(H)	½ (F)NPT	2.5 to 26.4	4,800 psi	8 7⁄64	194 F	Mecline	**20FV58**
Inlet Water Filter	¾ Garden Hose Thread	½ M	¼ F	8	100 psi	2 1/9	—	Dayton	**19C694**
Regulating Pressure Relief Valve	⅜ F	⅜ F	⅜ F	0 to 6.3	4,060 psi	4 ⅜	194 F	A.R. North America	**5JKL1**
Regulating Unloader Valve	⅜ F	⅜ F	—	0 to 7.8	3,650 psi	6 ¾	190 F	Dayton	**1MPP2**
Regulating Valve	½ F	⅜ M	—	2 to 3	2,600 psi	7 ½	190 F	Dayton	**1MDA1**
Regulating Valve	½ F	⅜ M	—	3 to 5.5	3,650 psi	8 ⅛	190 F	Dayton	**1MDA2**
Regulating Valve	⅜ F	⅜ F	(2) ⅜ F	0 to 10.5	3,650 psi	6 ¾	190 F	Dayton	**1MDA3**
Regulating Valve	⅜ F	⅜ F	(2) ⅜ F	0 to 10.5	4,500 psi	6 ¾	190 F	Dayton	**1MDA4**
Regulating Valve	⅜ F	⅜ M	⅜ F	0 to 9	5,000 psi	8 ⅛	190 F	Dayton	**1MDA5**
Safety Valve	⅜ M	—	—	0 to 6	4,000 psi	2	200 F	Dayton	**1MDA7**
Thermal Valve	½ M	—	—	—	200 psi	1 ¾	140 F	Dayton	**1MDA6**

Vacuum Pump and Portable Container

Dayton®

PUMP

Air-operated aluminum-body pump handles cutting fluids, waste oil, paint sludge, contaminated liquids, etc. Automatically shuts off when receiving container is full.

CONTAINER

Smooth, seamless polyethylene drum has 2" NPT bung opening and a ¾" opening. With carrying handle for easy transport.

Description	Construc. Material	Body Material	Item No.
Vacuum Pump, Includes Air Connection Kit, Suction Hose	—	Aluminum	5UWG2
15-gal Container, 14⁷⁄₁₆ in O.D. x 26⅓ in H	HDPE	—	5UWG5

5UWG2

5UWG5

Pedestal Gear Pumps—Intermittent-Duty

Dayton®

- Max. temp.: 210°F, except 230°F on 4KHJ4 to 4KHJ9
- Max. viscosity: 500 SSU at 1725 rpm
- Max. pressure: 100 psi
- Self-priming

Intermittently transfer nonabrasive or nonparticulate viscous liquids with a near-pulseless flow. Not for use in pulley drive systems that do not have a pillow-block shaft assembly. Bidirectional rotation.

Note: Higher viscosity liquids (100,000 SSU) must be transferred with more horsepower at reduced speeds.

BRONZE

Bronze spur gears are great for water-based liquids. Wet-end components: 303 stainless steel, bronze, brass, PTFE, and carbon graphite.

CAST-IRON

Steel spur gears are great for oil-based liquids. Wet-end components: cast iron, steel, and Viton on Viton-seal models; steel, cast iron, and PTFE on PTFE-seal models.

4KHH7

Port Size	Shaft Dia.	Shaft Height	GPM @ Free Flow	HP @ Free Flow*	GPM @ 100 psi	HP @ Free Flow @ 1725 rpm	Suction Lift	BRONZE W/ BRONZE BUSHING AND ZERK FITTINGS Item No.	BRONZE W/(4) BUSHINGS (2 LONG AND 2 SHORT), (4) THICK WASHERS, (8) THIN WASHERS Item No.	BRONZE W/ CARBON GRAPHITE BUSHINGS Item No.	BRONZE W/ CARBON GRAPHITE BUSHINGS W/RELIEF VALVE Item No.	CAST IRON W/VITON LIP SEAL Item No.	CAST IRON W/ KEVLAR PACKING, PTFE SEAL AND ZERK FITTING Item No.
¼ in	0.5 in	1.875 in	2.2 gpm	0.1667 hp	1.9 gpm	0.1667 hp	2.5 ft	4KHG4	—	—	4KHH7	4KHJ4	4KHK1
	0.5 in	1.875 in	0.166666666 gpm	0.1667 hp	1.9 gpm	0.1667 hp	2.5 ft	—	—	4KHH1	—	—	—
	0.5 in	2.3594 in	4.8 gpm	0.5 hp	4.4 gpm	0.5 hp	3.5 ft	4KHG5	—	4KHH2	4KHH8	4KHJ5	4KHK2
⅜ in	0.625 in	2.625 in	7 gpm	0.75 hp	6.5 gpm	0.75 hp	7.9 ft	—	4KHH3	—	—	—	—
	0.625 in	2.625 in	7 gpm	0.75 hp	6.6 gpm	0.75 hp	7.9 ft	—	—	—	4KHH9	4KHJ6	4KHK3
	0.63 in	2.625 in	7 gpm	0.75 hp	6.6 gpm	0.75 hp	7.9 ft	4KHG6	—	—	—	—	—
½ in	0.625 in	2.625 in	10.8 gpm	0.75 hp	10.2 gpm	0.75 hp	12.3 ft	—	—	4KHH4	4KHJ1	4KHJ7	4KHK4
	0.63 in	2.625 in	10.8 gpm	0.75 hp	10.2 gpm	0.75 hp	12.3 ft	4KHG7	—	—	—	—	—
¾ in	0.625 in	3.5625 in	20.6 gpm	1.5 hp	19.8 gpm	1.5 hp	15.2 ft	4KHG8	—	4KHH5	4KHJ2	4KHJ8	4KHK5
1 in	0.625 in	3.5625 in	24.8 gpm	1.5 hp	23.1 gpm	1.5 hp	19.5 ft	4KHG9	—	—	—	—	—
	0.625 in	3.5625 in	24.8 gpm	1.5 hp	23.1 gpm	1.5 hp	19.6 ft	—	—	4KHH6	4KHJ3	4KHJ9	4KHK6

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm. See page 9, 10 for optional motors.*

4KHK1

Pedestal Gear Pumps

Dayton®

- Max. viscosity: 500 SSU at 1725 rpm
- Max. pressure: 125 psi
- Mechanical seals
- Self-priming

Transfer nonabrasive or nonparticulate liquids with a near-pulseless flow. Pumps are bidirectional with positive displacement. All have keyed shafts and a seal flush chamber. Shaft ball bearings allow use with pulley-drive systems. Cast-iron and bronze models have pressure relief valves.

Note: Higher-viscosity liquids (100,000 SSU) must be transferred with more horsepower at reduced speeds.

CAST-IRON

- Max. temp.: 280°F

Steel spur gears handle oil-based fluids. Viton mechanical seals with carbon/ceramic faces provide good resistance to compatible chemicals. Other wetted materials are cast iron and steel.

BRONZE

- Max. temp.: 210°F

Fortron polyphenylene sulfide (PPS) spur gears transfer water-based liquids with no metal-to-metal contact; good chemical compatibility. Buna N mechanical seals with carbon/ceramic faces. Other wetted materials are bronze, brass, Fortron, and carbon graphite.

316 STAINLESS STEEL

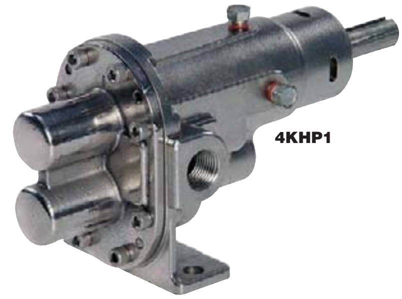
- Max. temp.: 280°F

Fortron polyphenylene sulfide (PPS) spur gears handle viscous-based fluids and operate quietly with no metal-to-metal contact; good chemical resistance. Viton mechanical seals with carbon/ceramic faces. Other wetted materials are 316 stainless steel, carbon graphite, and Fortron.

4KHF8

Port Size	Shaft Dia.	Shaft Height	GPM @ Free Flow	HP @ Free Flow*	GPM @ 125 psi @ 1725 RPM	HP @ 125 psi @ 1725 RPM	Suction Lift	CAST-IRON W/STEEL SPUR GEARS Item No.	BRONZE W/ CARBON GRAPHITE BUSHINGS Item No.	316 STAINLESS STEEL W/ CARBON BUSHINGS Item No.
⅜ in	0.5 in	2.375 in	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	4KHF8	4KHF3	—
⅜ in	0.5 in	2.8 in	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	—	—	4KHP1
½ in	0.625 in	2.625 in	7 gpm	0.75 hp	6.1 gpm	1.5 hp	7.9 ft	4KHF9	4KHF4	—
½ in	0.625 in	3.1563 in	10.8 gpm	1.5 hp	9.7 gpm	1 hp	12.3 ft	—	—	4KHP2
¾ in	0.625 in	2.625 in	10.8 gpm	0.75 hp	9.7 gpm	1.5 hp	12.3 ft	4KHG1	4KHF5	—
1 in	0.75 in	3.5625 in	20.6 gpm	1.5 hp	19.2 gpm	3 hp	15.2 ft	4KHG2	4KHF6	—
1 ¼ in	0.75 in	3.5625 in	24.8 gpm	1.5 hp	23.3 gpm	3 hp	19.5 ft	4KHG3	4KHF7	—
1 in	0.75 in	3.9375 in	24.8 gpm	1.5 hp	23.3 gpm	3 hp	19.5 ft	—	—	4KHP3

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm. See page 9, 10 for optional motors.*


4KHP1

Scan. Order. Done.
Details on page A1.

4KGZ8

Dayton

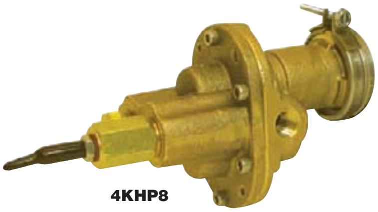
Adjustable Pressure Relief Valves

- Operate in any position
- Max. temp.: 180°F

Pressure can be set to maximize discharge performance. Some bypass may occur.

WARNING: For use with positive displacement pumps only. Not designed for complete shutoff. Not for hot water heaters, boilers, or steam service. Install only on pressure side of pump to relieve pressure. Using valves under or over rated pressure will cause valve to leak.

Max. Flow (gpm)	Pressure Range (psi)	Body Material	Wetted Materials	Inlet Port (in.)	Outlet Port (in.)	Item No.
6 gpm	300 to 600	Bronze	Stainless Steel	½ (M)NPT	½ (F)NPT	**4KGZ8**
6 gpm	300 to 600	Bronze	Stainless Steel	¾ (M)NPT	¾ (F)NPT	**4KGZ7**
13 gpm	0 to 150	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	**4KGZ9**
22 gpm	0 to 250	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	**4KHA3**
25 gpm	0 to 300	Bronze	Stainless Steel	¾ (M)NPT	¾ (F)NPT	**4KHA1**
40 gpm	0 to 400	Bronze	Stainless Steel	1 (M)NPT	¾ (F)NPT	**4KHA2**



4KHP8

41TK24

Intermittent-Duty Rotary Gear Pumps—Carbonator-Mount

Dayton

- Max. viscosity: 500 SSU at 1750 rpm
- Max. operating pressure: 100 psi
- ODP motor enclosures
- Mechanical seals

These pumps are self-priming and have a pressure relief valve. Bidirectional (reversible) motor drive with thermal overload protection.

CAST-IRON

- Max. temp.: 280°F

Designed for oil-based fluids. Steel spur gears and shafts with Viton seals. Other wetted materials are cast iron, 303 stainless steel, carbon, and ceramic.

BRONZE

- Max. temp.: 210°F

Handle water-based fluids. Carbon graphite bushings and Buna N seals. Other wetted materials are bronze, brass, Buna N gasket, and 303, 17-7, and 18-8 stainless steel.

Port Size	GPM @ Free Flow	HP @ Free Flow*	GPM @ 100 psi	HP @ 100 psi	Suction Lift	CAST-IRON Item No.	BRONZE Item No.
Pump Only							
¼ in	2.2 gpm	0.3333 hp	1.6 gpm	0.3333 hp	3.2 ft	**4KHR1**	**4KHP8**
⅜ in	4.4 gpm	0.5 hp	3.6 gpm	0.5 hp	3.6 ft	**4KHR2**	**4KHP9**

HP	Voltage	Amps AC	Port Size (in.)	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	CAST-IRON Item No.	BRONZE Item No.
Pump with Motor								
⅓ hp	115/230	5.6/2.8	¼ in	2.2 gpm	1.3 gpm	3.2 ft	**41TK24**	**41TK25**
½ hp	115/230	7.2/3.6	⅜ in	4.4 gpm	3 gpm	3.6 ft	**41TK26**	**41TK27**

** Flow is based on pumping 10-weight oil at 70°F at 1725 rpm.*

4KHC5

41TK06

Rotary Gear Pumps—Close-Coupled

Dayton

- Max. viscosity: 500 SSU
- Max. pressure: 125 psi
- Mechanical seals
- Self-priming

Can be mounted on NEMA C-face motors to provide a near pulseless flow with easy maintenance. Feature ball bearings and keyed shafts.

CAST-IRON

- Max. temp.: 280°F
- ODP motor enclosures

Steel spur gears handle oil-based fluids. Viton carbon/ceramic seal with cellulose gasket. Other wetted materials are cast iron and steel. With pressure relief valve.

BRONZE

- Max. temp.: 210°F
- ODP motor enclosures

Fortron PPS spur gears have a linear polymer structure for greater strength, and transfer water-based liquids with no metal-to-metal contact; good chemical compatibility. Ryton PPS gears have a cross-linked polymer construction and can resist a variety of solvents and corrosive chemicals. Carbon/ceramic/Buna N seal and carbon graphite bushings. Other wetted materials include bronze and brass. With pressure relief valve.

316 STAINLESS STEEL

- Max. temp.: 280°F
- TEFC motor enclosures

Fortron PPS spur gears are a linear polymer construction for added strength, and operate quietly with no metal-to-metal contact; good chemical resistance. Viton seal. Sealed flush chamber increases pump efficiency. Other wetted materials are 316 stainless steel, carbon graphite, Graphoil gasket, and ceramic.

Port Size	Motor Frame	GPM @ Free Flow	HP @ Free Flow	GPM @ 125 psi	HP @ 125 psi	Suction Lift	CAST-IRON, STEEL SPUR GEAR Item No.	BRONZE, FORTRON PPS SPUR GEAR Item No.	316 STAINLESS STEEL, FORTRON PPS SPUR GEAR Item No.
Pump Only									
¼ in	56C	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	**4KHC5**	**4KHA9**	—
⅜ in	56C	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	—	—	**4KHN7**
⅜ in	56C	7 gpm	0.75 hp	6.1 gpm	1.5 hp	7.9 ft	**4KHC6**	**4KHC1**	—
½ in	56C	10.8 gpm	0.75 hp	9.7 gpm	1.5 hp	12.3 ft	**4KHC7**	**4KHC2**	**4KHN8**
1 in	182TC/184TC	24.8 gpm	1.5 hp	23.3 gpm	3 hp	19.5 ft	**4KHC9**	**4KHC4**	**4KHN9**

HP	Port Size (in.)	Gear Material	Motor Frame	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	Voltage	Item No.
Pump with Motor								
Cast Iron								
1 hp	¼ in	Steel Spur	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	**41TK05**
	¼ in		56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	**41TK13**
1 ½ hp	⅜ in		56HC	7 gpm	6.5 gpm	7.9 ft	115/230	**41TK09**
	⅜ in		56C	7 gpm	6.5 gpm	7.9 ft	230/460	**41TK16**
	½ in		56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	**41TK10**
	½ in		56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	**41TK18**
3 hp	1 in		182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	**41TK21**
Bronze								
1 hp	¼ in	Fortron PPS Spur	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	**41TK06**
	¼ in		56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	**41TK14**
1 ½ hp	⅜ in		56HC	7 gpm	6.5 gpm	7.9 ft	115/230	**41TK08**
	⅜ in		56C	7 gpm	6.5 gpm	7.9 ft	230/460	**41TK17**
	½ in		56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	**41TK11**
	½ in		56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	**41TK19**
3 hp	1 in		182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	**41TK22**
316 Stainless Steel								
1 hp	⅜ in	Fortron PPS Spur	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	**41TK07**
	⅜ in		56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	**41TK15**
1 ½ hp	½ in		56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	**41TK12**
	½ in		56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	**41TK20**
3 hp	1 in		182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	**41TK23**

CHEMSTEEL®

Rotary Gear Pumps—High Temperature

- Max. temp.: 450°F
- Max. viscosity: 100 SSU, except Pedestal are 500 SSU
- Metering accuracy ±0.5%
- Self-priming

Quietly transfer highly corrosive liquids at higher pressures and temperatures. Pumps have a 316 stainless steel housing and feature Waukesha 88 nongalling helical gears. With heavy-duty 1-pc. combination bearing and full-size carbon bearing wear plate; sized to match the full gear diameter. Pump housings have through-bolt construction with PTFE-encapsulated silicone O-ring housing seals and a seal flush chamber. Other wetted materials include 316 stainless steel, W88 helical gears, PTFE, Kalrez, ceramic, and carbon. Bidirectional rotation. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Magnetic Drive—These sealless pumps are used to transfer harsh and aggressive chemicals in environmentally sensitive or regulated areas.

- Max. pressure: 110 psi

Mechanical Seal—Type 9T stainless steel and PTFE mechanical shaft seals handle many harsh chemical liquids.

- Max. pressure: 150 psi (2ERA9 is 110 psi)

Magnetic Drive
2ERE7

Mechanical Seal
2ERC3

Rotary Gear
Pump Head
6KXR2

HP	Phase	Voltage	Amps	Port Size (NPT)	NEMA Motor Frame	GPM @ Free Flow @ 1725 rpm	GPM @ 1725 rpm 100 psi*	Suction Lift (ft.)	MAGNETIC DRIVE Item No.	MECHANICAL SEAL Item No.
Rotary Gear Pumps										
⅓ hp	1	115/230	6/3	¼ in	56C	0.6 gpm	0.37 gpm	1.5 ft	**2ERE7**	**2ERA9** #
⅓ hp	1	115/230	6/3	¼ in	56C	1.5 gpm	1.12 gpm	2 ft	**2ERE8**	**2ERC1** #
⅓ hp	1	115/230	6/3	½ in	56C	2 gpm	1.6 gpm	3 ft	**2ERE9**	**2ERC2** #
½ hp	1	115/230	8/4	½ in	56C	3 gpm	2.2 gpm	4 ft	**2ERF1**	**2ERC3** #
¾ hp	1	115/230	8.4/4.2	½ in	56C	4 gpm	3.7 gpm	5 ft	**2ERF2**	**2ERC4** #
1 hp	1	115/230	12.8/6.4	½ in	56C	5.6 gpm	5.25 gpm	6 ft	**2ERF3**	**2ERC5** #
1 ½ hp	3	230/460	5/2.5	½ in	56C	8 gpm	7.5 gpm	8 ft	**2ERF4** †	**2ERC6** †#
1 ½ hp	3	230/460	5/2.5	¾ in	56C	10 gpm	9.25 gpm	9 ft	**2ERF5** †	**2ERC7** †#
3 hp	3	230/460	8.3/4.15	1 ½ in	182TC	14.9 gpm	12.4 gpm	10 ft	**2ERF6** †	**2ERC8** †#
3 hp	3	230/460	8.3/4.15	1 ½ in	182TC	20 gpm	17.6 gpm	12 ft	**2ERF7** †	**2ERC9** †#
5 hp	3	230/460	13.2/6.6	1 ½ in	182TC	23 gpm	20.1 gpm	15 ft	**2ERF8** †	**2ERD1** †#
5 hp	3	230/460	13.2/6.6	1 ½ in	182TC	30 gpm	27 gpm	17 ft	**2ERF9** †	**2ERD2** †#

Recommended Motor HP	Port Size (NPT)	NEMA Motor Frame	Free Flow (gpm)	GPM @ 40 psi*	GPM @ 50 psi*	Max. Pressure	Suction Lift	Mfr. Model	Item No.
Rotary Gear Pump Heads, Mechanical Seal									
⅓ hp	¼ in	56C	0.6 gpm	0.5 gpm	0.5 gpm	110 psi	1.5 ft	R10216CA	**6KXR2** #
⅓ hp	¼ in	56C	1.4 gpm	1.3 gpm	1.3 gpm	150 psi	2 ft	R10316CA	**6KXR3** #
⅓ hp	½ in	56C	2.1 gpm	1.9 gpm	1.8 gpm	150 psi	3 ft	R10416CA	**6KXR4** #
½ hp	½ in	56C	2.8 gpm	2.5 gpm	2.5 gpm	150 psi	4 ft	R10616CA	**6KXR5** #
¾ hp	½ in	56C	4.4 gpm	4.2 gpm	4.2 gpm	150 psi	5 ft	S20716CA	**6KXR6** #
1 hp	½ in	56C	6.2 gpm	5.9 gpm	5.8 gpm	150 psi	6 ft	S21016CA	**6KXR7** #
1 ½ hp	½ in	56C	8.6 gpm	8.3 gpm	8.3 gpm	150 psi	8 ft	S21416CA	**6KXR8** #
1 ½ hp	¾ in	56C	10.5 gpm	10.1 gpm	10 gpm	150 psi	9 ft	S41716CA	**6KXR9** #
3 hp	1 ½ in	182TC	14.9 gpm	13.9 gpm	13.7 gpm	150 psi	10 ft	S92316CA	**6KXT0** #
3 hp	1 ½ in	182TC	19.6 gpm	18.8 gpm	18.6 gpm	150 psi	12 ft	S93016CA	**6KXT1** #
5 hp	1 ½ in	184TC	22.4 gpm	21.6 gpm	21.4 gpm	150 psi	15 ft	S93516CA	**6KXT2** #
5 hp	1 ½ in	184TC	29.5 gpm	28.6 gpm	28.4 gpm	150 psi	17 ft	S94616CA	**6KXT3** #
Close Coupled Motor Adapters									
For Use With Pump Models R102 thru R106							—	OB2012	**6KXT4**
For Use With Pump Models S207 thru S214							—	3232	**6KXT5**
For Use With Pump Models S417							—	9811	**6KXT6**
For Use With Pump Models S923 thru S946							—	9809	**6KXT7**

** To convert to feet of head divide by 2.31. † 3-phase models are inverter-duty rated and meet NEMA MG 1 Part 31.4.4.2 in constant- and variable-torque applications with a 20:1 turndown ratio; see page 157 for AC Adjustable Frequency Drives. # Oberdorfer Chemsteel brand.*

Dayton®

Hot Oil and Filtration Pumps

- Max. temp.: 375°F
- Max rpm: 1725

Bidirectional pumps feature all cast-iron construction and provide a near-pulseless flow in intermittent-duty commercial hot oil transfer applications. Nonclogging pumps have spur gears, and are able to pass nonabrasive particulates and reduce oil shear. Suitable for use in commercial fat fryers, filtration processes, and cooking oil waste removal. Not for use with water-based fluids. Include motor with ODP enclosure, except 6DHH7 and 6DHH8.

Rotary Gear Pumps, Carbonator Mount

- Max. viscosity: 100 SSU

Rotary Gear Pumps, Close-Coupled—Include relief valve.

- Max. viscosity: 100 SSU

Rotary Gear Pump Heads, Carbonator Mount

- Max. viscosity: 100 SSU

6DHH9

6DHJ2

6DHH7

HP	Voltage	Amps	Port Size (NPT)	GPM Pumping Cooking Oil @ 300°F Free Flow (gpm)	GPM @ 40 psi	GPM @ 50 psi	Suction Lift (ft.)	Max. Pressure (psi)	Seal	Item No.
Rotary Gear Pumps, Carbonator Mount										
⅓ hp	115/230	6.0/3.0	½ in	4.1 gpm	3.4 gpm	—	5.1 ft	40 psi	Viton Lip	**6DHH9**
½ hp	115/230	8.4/4.2	½ in	5.2 gpm	4.4 gpm	—	6.2 ft	40 psi	Silicone Lip	**6DHJ0**
Rotary Gear Pumps, Close-Coupled										
¾ hp	115/230	11.6/5.8	¾ in	9.9 gpm	8.1 gpm	7.7 gpm	12.3 ft	60 psi	Viton Mechanical	**6DHJ2**
Rotary Gear Pump Heads, Carbonator Mount										
½ hp	—	—	½	5.2 gpm	4.4 gpm	—	6.2	40	Viton Lip	**6DHH7**
⅓ hp	—	—	½	4.1 gpm	3.4 gpm	—	5.1	40	Viton Lip	**6DHH8**

PROCON® Products

Carbonator-Mount Rotary Vane Pumps

6XE79

6XE86

1MCX2

- Max. fluid temp.: 158°F
- Max. operating pressure: 250 psi
- NSF rated, except 6XE82 and 6XE84

These positive displacement pumps run quietly, have low vibration and pulsation characteristics, and are virtually maintenance-free. They can handle many liquids with low lubricating characteristics at relatively high pressures. Flow remains constant over entire pressure range. Most models are self-priming (except 6XE92 and 6XE95). Metal-to-metal contact is eliminated, resulting in low starting torque. 303 stainless steel shaft, stainless steel rotors, and built-in relief valve. Pumps mount on NEMA 56C frame motors (adapter kit sold separately) for a coupling drive, or can be attached to a NEMA 48YZ motor with a V-band clamp. High-temperature plastic internal bypass valve eliminates the need for an external relief valve on all models except 6XE92 and 6XE95. (6XE82 and 6XE84 have internal solid-brass bypass valves. Brass and stainless steel also available on all other models; call 1-800-GRAINGER (472-4643).

Pumps work with carbonated, deionized, or distilled water and moderately aggressive liquids—such as fire-resistant fluids, hydraulic oil, lubricants, coolants, insecticides, and soap. For use in dispensers, espresso machines, sprayers, filtration and water purification processes, team-cleaning and car-washing machines, pressure boosters, atomizing/misting humidification systems, circulation systems, laboratory pumps, pilot plants, boiler feeds, textile machines, and fire jockey pumps.

Inlet/ Outlet NPTF (in.)	Max. Flow (gph)	Min. Flow Rate (gph)	Filter Strainer	100 psi		200 psi		250 psi		BRASS		STAINLESS STEEL	
				gph	HP	gph	HP	gph	HP	Mfr. Model	Item No.	Mfr. Model	Item No.
⅜ in	25 gph	19 gph	100 Mesh	25 gph	¼ hp	21 gph	¼ hp	19 gph	⅓ hp	111A025F11CA 250	**6XE97**	—	—
	35 gph	19 gph	—	25 gph	¼ hp	21 gph	¼ hp	19 gph	⅓ hp	112A025F11CA 250	**6XE96**	113A025F31CA 250	**5JKD4**
	35 gph	19 gph	100 Mesh	25 gph	¼ hp	21 gph	¼ hp	19 gph	⅓ hp	141A025F11CA 250	**5JKE2** *	—	—
	48 gph	29 gph	—	35 gph	¼ hp	31 gph	¼ hp	29 gph	⅓ hp	112A035F11CA 250	**6XE79**	113A035F31CA 250	**6XE86**
	48 gph	29 gph	100 Mesh	35 gph	¼ hp	31 gph	¼ hp	29 gph	⅓ hp	111A035F11CA 250	**6XE78**	—	—
	48 gph	29 gph	100 Mesh	35 gph	¼ hp	31 gph	¼ hp	29 gph	⅓ hp	141A035F11CA 250	**5JKD8** *	—	—
	73 gph	54 gph	—	60 gph	¼ hp	56 gph	⅓ hp	54 gph	½ hp	112A060F11CA 250	**6XE80**	113A060F31CA 250	**5JKD1**
	73 gph	54 gph	100 Mesh	60 gph	¼ hp	56 gph	⅓ hp	54 gph	½ hp	111A060F11CA 250	**6XE81**	—	—
	73 gph	54 gph	100 Mesh	60 gph	¼ hp	56 gph	⅓ hp	54 gph	½ hp	141A060F11CA 250	**5JKD9** *	—	—
	82 gph	64 gph	—	70 gph	¼ hp	66 gph	⅓ hp	64 gph	½ hp	—	—	113A070F31BA 250	**6XE87**
	112 gph	94 gph	—	100 gph	¼ hp	96 gph	⅓ hp	94 gph	½ hp	102A100F11PA 250	**6XE82**	113A100F31BA 250	**6XE88**
	112 gph	94 gph	—	100 gph	¼ hp	96 gph	⅓ hp	94 gph	½ hp	—	—	103A100F31RA 250	**5JKD2**
	112 gph	94 gph	100 Mesh	100 gph	¼ hp	96 gph	⅓ hp	94 gph	½ hp	111A100F11AA 250	**6XE83**	—	—
	112 gph	94 gph	100 Mesh	100 gph	¼ hp	96 gph	⅓ hp	94 gph	½ hp	141A100F11AA 250	**5JKE0** *	—	—
	131 gph	121 gph	100 Mesh	126 gph	½ hp	122 gph	½ hp	120 gph	¾ hp	141A125F11AA 250	**5JKE1** *	—	—
	154 gph	135 gph	—	141 gph	⅓ hp	137 gph	¾ hp	135 gph	¾ hp	102A140F11PA 250	**6XE84**	—	—
	154 gph	135 gph	—	141 gph	⅓ hp	137 gph	½ hp	94 gph	¾ hp	—	—	113A140F31BA 250	**6XE89**
	154 gph	135 gph	—	141 gph	⅓ hp	137 gph	½ hp	135 gph	¾ hp	—	—	103A140F31RA 250	**5JKD3**
	154 gph	135 gph	100 Mesh	141 gph	⅓ hp	137 gph	¾ hp	135 gph	¾ hp	111A140F11AA 250	**6XE85**	—	—
	154 gph	135 gph	100 Mesh	141 gph	⅓ hp	137 gph	¾ hp	135 gph	¾ hp	141A140F11AA 250	**5JKE3** *	—	—
½ in	210 gph	178 gph	—	190 gph	⅓ hp	182 gph	¾ hp	178 gph	¾ hp	114B190F11BA 250	**6XE93**	115B190F31BA 250	**6XE90**
	260 gph	228 gph	—	240 gph	½ hp	232 gph	¾ hp	228 gph	1 hp	114B240F11BA 250	**6XE94**	115B240F31BA 250	**5JKD6**
	275 gph	257 gph	—	263 gph	½ hp	259 gph	1 hp	257 gph	1 ¼ hp	—	—	115B265F31BA 250	**6XE91**
	346 gph	326 gph	—	330 gph	½ hp	327 gph	1 hp	326 gph	1 ¼ hp	114B330F11XX	**6XE95**	—	—
	346 gph	326 gph	—	330 gph	¾ hp	327 gph	1 hp	326 gph	1 ¼ hp	—	—	115B330F31XX	**6XE92**

Low lead.

Bronze Couplings—Couplings absorb most of the wear usually inflicted upon pump and motor shafts to protect both in the event of misalignment, extending pump/motor life. Can be easily and inexpensively replaced as needed. Use only with slotted rotors.

For Use With	Shaft Dia. (in.)	Shaft Type	Mfr. Model	Item No.
Bronze Couplings				
114B190F11BA 250, 114B240F11BA 250, 114B330F11XX, 115B265F31BA 250, 115B330F31XX, Mfr. No. 115B190F31BA 250	⅝ in	Double Flat/Slot	1143	**1MCX2**
Mfr. No. 3540	⅝ in	Double Flat/Slot	1143-4	**1MCX3**

34TL03

34TL04

34TL14

34TL23

Fluid-o-Tech® POWER THE FLOW

Rotary Vane Pumps

- Max. temp.: 158°F
- Max. pressure: 290 psi

These high-pressure pumps provide a steady liquid flow and feature a rugged 303 stainless steel rotor and a graphite vane. Suitable for use in beverage, dairy pasteurizing, liquid transfer, machine coolant, reverse osmosis, and water boosting applications. You can mount all carbonator mount pumps to any NEMA 48Y frame motor. Shaft Saver 34TL24 (sold separately) installs between the motor hub and pump to help reduce wear on the motor and pump shaft. Includes 2 clamps, collar, and coupling. Pumps are NSF compliant and suitable for use in potable water applications.

Inlet/ Outlet	Min. Flow (gpm)	By-Pass	Mounting	LOW-LEAD BRASS Mfr. Model	LOW-LEAD BRASS Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
⅜ in FNPT	0.4 gpm	Yes	Carbonator	PB0071ANCNN0000	**34TL07**	—	—
	0.4 gpm			PB0071XNANN0000	**34TL08** *	—	—
	0.5 gpm			PB0101XNANN0000	**34TL11** *	PO0101BNCNN0000	**34TL13**
	0.5 gpm			PB0101ANCNN0000	**34TL12**	—	—
	1 gpm			PB0201XNANN0000	**34TL18** *	PO0201BNCNN0000	**34TL20**
	1 gpm			PB0201ANCNN0000	**34TL19**	—	—
	1.6 gpm			PB0301TNANN0000	**34TK96** *	PO0301BNCNN0000	**34TK98**
	1.6 gpm			PB0301ANCNN0000	**34TK97**	—	—
	2.3 gpm			PB0401XNANN0000	**34TK99** *	PO0401BNCNN0000	**34TL02**
	2.3 gpm			PB0401ANCNN0000	**34TL01**	—	—
½ in FNPT	3.1 gpm			PB0601ANDNN0000	**34TL03**	PO0601BNENN0000	**34TL04**
	4 gpm			PB0801ANDNN0000	**34TL05**	PO0801BNENN0000	**34TL06**
	5.5 gpm			PB1001ANDNN0000	**34TL09**	PO1001BNENN0000	**34TL10**
1 in HNPT	6.6 gpm	No	Flange	—	—	LO1200CNONV0000	**34TL14**
1 in FNPT	7.7 gpm			—	—	LO1400CNONV0000	**34TL15**
	8.8 gpm			—	—	LO1600CNONV0000	**34TL16**
	9.9 gpm			—	—	LO1800CNONV0000	**34TL17**
	11 gpm			—	—	LO2000CNONV0000	**34TL21**
	12.1 gpm			—	—	LO2200CNONV0000	**34TL22**

Description	Body Material	Mounting	Mfr. Model	Item No.
Accessories				
Adapter	Plastic	Flange and Clamp	22388-K	**34TL23**
Shaft Saver Kit	Glass Encapsulated Nylon	Clamp	92-01-04-DK	**34TL24**
V-Band Clamp	Stainless Steel	47.4mm dia Clamp	94-80-01	**34TL25**

Strainer included.

Compression Packing Seals

Palmetto®

Packing materials are calendared and oven-dried to help make the packing more dense so that fewer adjustments are required. Lubricated seals keep the packing from spinning with the shaft during break-in. Can be cut and formed into individual rings to act as a seal in pumps or valves. See chart for pump and valve performance limits.

GFO 4RTL4

Aramid 4RTA1

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
GENERAL SERVICE		**General service for water pumps & light- to medium-duty**							
A	1030AF	General water pump service, composite packing w/ graphite, Novoloid & aramid. Dull gray.	-400 to +600	NR	200	1200	NR	2000	3 to 11
B	1347AF	General service, white synthetic packing w/ PTFE	-10 to +450	NR	500	NR	NR	2300	2 to 12
C	1392S	General service, composite packing w/ PTFE. Brown.	-10 to +400	NR	400	NR	NR	1200	2 to 12
GENERAL SERVICE+		**PTFE/graphite packings for general service w/ faster shaft speeds and/or light slurry**							
D	1382	Expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	3800	0 to 14
E	1389	100% GFO® expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	4300	0 to 14
ABRASIVE / SLURRY		**Abrasive/slurry packing for demanding applications in mining, dredging, oil sand, asphalt & wastewater**							
F	PE1000	Black graphited aramid w/ lube for high pressure reciprocating & abrasive slurry. Dull black.	-400 to +550	NR	800	NR	NR	2500	1 to 13
G	1350	Yellow para-aramid for high pressure & abrasive slurry applications	-10 to +500	NR	500	NR	NR	2500	3 to 11
H	1359	Expanded PTFE w/ graphite, aramid corners extrusion resistant slurry packing. Dull black.	-10 to +500	NR	700	NR	NR	2700	3 to 11
I	1371	White meta-aramid for high pressure, abrasive slurry, paper mill applications	-10 to +550	NR	500	NR	NR	2000	1 to 14

Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.
(A) 1030AF Novoloid/ Aramid with Graphite			
⅛ in	4RTV4	4RTV5	4RTV6
3/16 in	4RTV7	4RTV8	4RTV9
¼ in	4RTW1	4RTW2	4RTW3
5/16 in	4RTW4	4RTW5	4RTW6
⅜ in	4RTW7	4RTW8	4RTW9
7/16 in	4RTX1	4RTX2	4RTX3
½ in	4RTX4	4RTX5	4RTX6
⅝ in	4RTX7	4RTX8	4RTX9
¾ in	4RTY1	4RTY2	4RTY3
(B) 1347AF Acrylic/PTFE			
⅛ in	4RUC4	4RUC5	4VKE9
3/16 in	4VKF1	4VKF2	4VKF3
¼ in	4VKF4	4VKF5	4VKF6
5/16 in	4VKF7	4VKF8	4VKF9
⅜ in	4VKG1	4VKG2	4VKG3
7/16 in	4VKG4	4VKG5	4VKG6
½ in	4VKG7	4VKG8	4VKG9
⅝ in	4VKH1	4VKH2	4VKH3
¾ in	4VKH4	4VKH5	4VKH6
(C) 1392S Novoloid/ Aramid with PTFE			
⅛ in	4RTY4	4RTY5	4RTY6
3/16 in	4RTY7	4RTY8	4RTY9
¼ in	4RTZ1	4RTZ2	4RTZ3
5/16 in	4RTZ4	4RTZ5	4RTZ6
⅜ in	4RTZ7	4RTZ8	4RTZ9
7/16 in	4RUA1	4RUA2	4RUA3
½ in	4RUA4	4RUA5	4RUA6
⅝ in	4RUA7	4RUA8	4RUA9
¾ in	4RUC1	4RUC2	4RUC3
(D) 1382 Expanded PTFE with Graphite			
⅛ in	4RTR4	4RTR5	4RTR6
3/16 in	4RTR7	4RTR8	4RTR9
¼ in	4RTT1	4RTT2	4RTT3
5/16 in	4RTT4	4RTT5	4RTT6
⅜ in	4RTT7	—	4RTT9
7/16 in	4RTU1	4RTU2	4RTU3
½ in	4RTU4	4RTU5	4RTU6
⅝ in	4RTU7	4RTU8	4RTU9
¾ in	4RTV1	4RTV2	4RTV3
(E) 1389 100% GFO(TM) Expanded PTFE with Graphite			
⅛ in	4RTL4	4RTL5	4RTL6
3/16 in	4RTL7	4RTL8	4RTL9
¼ in	4RTN1	4RTN2	4RTN3
5/16 in	4RTN4	4RTN5	4RTN6
⅜ in	4RTN7	4RTN8	4RTN9
7/16 in	4RTP1	4RTP2	4RTP3
½ in	4RTP4	4RTP5	4RTP6
⅝ in	4RTP7	4RTP8	4RTP9
¾ in	4RTR1	4RTR2	4RTR3
(F) PE1000 Graphited Aramid			
⅛ in	4RRP7	4RRP8	4RRP9
3/16 in	4RRR1	4RRR2	4RRR3
¼ in	4RRR4	4RRR5	4RRR6
5/16 in	4RRR7	4RRR8	4RRR9
⅜ in	4RRT1	4RRT2	4RRT3
7/16 in	4RRT4	4RRT5	4RRT6
½ in	4RRT7	4RRT8	4RRT9
⅝ in	4RRU1	4RRU2	4RRU3
¾ in	4RRU4	4RRU5	4RRU6
(G) 1350 Para-Aramid			
⅛ in	4RTA1	4RTA2	4RTA3
3/16 in	4RTA4	4RTA5	4RTA6
¼ in	4RTA7	4RTA8	4RTA9
5/16 in	4RTC1	4RTC2	4RTC3
⅜ in	4RTC4	4RTC5	4RTC6
7/16 in	4RTC7	4RTC8	4RTC9
½ in	4RTD1	4RTD2	4RTD3
⅝ in	4RTD4	4RTD5	4RTD6
¾ in	4RTD7	4RTD8	4RTD9
(H) 1359 Expanded PTFE with Graphite and Aramid Corners			
¼ in	4RRU7	4RRU8	4RRU9
5/16 in	4RRV1	4RRV2	4RRV3
⅜ in	4RRV4	4RRV5	4RRV6
7/16 in	4RRV7	4RRV8	4RRV9
½ in	4RRW1	4RRW2	4RRW3
⅝ in	4RRW4	4RRW5	4RRW6
¾ in	4RRW7	4RRW8	4RRW9
(I) 1371 Meta-Aramid			
⅛ in	4RRX1	4RRX2	4RRX3
3/16 in	4RRX4	4RRX5	4RRX6
¼ in	4RRX7	4RRX8	4RRX9
5/16 in	4RRY1	4RRY2	4RRY3
⅜ in	4RRY4	4RRY5	4RRY6
7/16 in	4RRY7	4RRY8	4RRY9
½ in	4RRZ1	4RRZ2	4RRZ3
⅝ in	4RRZ4	4RRZ5	4RRZ6
¾ in	4RRZ7	4RRZ8	4RRZ9

Compression Packing Seals

Palmetto®

Can be cut and formed into individual rings, to act as seals in pumps or valves. See chart for pump and valve performance limits.

Graphite 4VLE4

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
FOOD / CHEMICAL		**White TFE-based packing for food, chemical or other applications needing a white or non-staining packing w/ a wide pH range**							
A	1367FS	FDA compliant PTFE white packing w/ mineral oil lubrication	-400 to +500	NR	250	NR	NR	1200	0 to 14
B	1367S	PTFE white packing w/ lubrication (MIL-P-24396, Type A) for corrosive chemicals, pumps, & mixers	-400 to +500	+500	250	NR	NR	1200	0 to 14
HIGH SPEED / TEMP		**Packing for high shaft speeds and/or high-temp. media**							
C	1555	Graphite filament packing w/ graphite for high-temp. & high-speed applications w/ good sealability. Dull gray color.	-450 to +800	+1200	500	3500	3500	4000	1 to 14
D	1575	Carbon is good for high temps. & high shaft speeds	-450 to +650	1000	500	2500	2500	4000	0 to 14
E	1578	Carbon/PTFE for high temps. & high shaft speeds	-450 to +650	1200	500	2500	NR	4000	0 to 14
F	5000	Braided flexible graphite packing w/ no wire for high speed & temps. Shiny gray color.	-450 to +650	+1200	250	2500	2500	4000	0 to 14
G	5080	Flexible graphite packing w/ carbon corners for high speed & temps. provides for low leakage in pumps & valves. Shiny gray color.	-400 to +650	+1200	500	3000	3000	4000	0 to 14
VALVES		**Valve packing**							
H	1367H	PTFE white packing without lubrication (MIL-P-24396, Type B) used w/ valves in corrosive, pressure-resistant non-steam applications	-400 to +500	NR	NR	2000	NR	NR	0 to 14
I	5000W	Flexible graphite packing w/ a small amount of Inconel wire for steam valves. Shiny gray color.	-100 to +650	+1200	NR	3500	3500	NR	1 to 14

Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.
(A) 1367FS PTFE			
⅛ in	4RTH1	4RTH2	4RTH3
3/16 in	4RTH4	4RTH5	4RTH6
¼ in	4RTH7	4RTH8	4RTH9
5/16 in	4RTJ1	4RTJ2	4RTJ3
⅜ in	4RTJ4	4RTJ5	4RTJ6
7/16 in	4RTJ7	4RTJ8	4RTJ9
½ in	4RTK1	4RTK2	4RTK3
⅝ in	4RTK4	4RTK5	4RTK6
¾ in	4RTK7	4RTK8	4RTK9
1 in	4RTL1	4RTL2	4RTL3
(B) 1367S PTFE			
⅛ in	4RTE1	4RTE2	4RTE3
3/16 in	4RTE4	4RTE5	4RTE6
¼ in	4RTE7	4RTE8	4RTE9
5/16 in	4RTF1	4RTF2	4RTF3
⅜ in	4RTF4	4RTF5	4RTF6
7/16 in	4RTF7	4RTF8	4RTF9
½ in	4RTG1	4RTG2	4RTG3
⅝ in	4RTG4	4RTG5	4RTG6
¾ in	4RTG7	4RTG8	4RTG9
(C) 1555 Graphite Filament with Graphite			
⅛ in	4VLE4	4VLE5	4VLE6
3/16 in	4VLE7	4VLE8	4VLE9
¼ in	4VLF1	4VLF2	4VLF3
5/16 in	4VLF4	4VLF5	4VLF6
⅜ in	4VLF7	4VLF8	4VLF9
7/16 in	4VLG1	4VLG2	4VLG3
½ in	4VLG4	4VLG5	4VLG6
⅝ in	4VLG7	4VLG8	4VLG9
¾ in	4VLH1	4VLH2	4VLH3
(D) 1575 Carbon Packing with Graphite (Continuous Filament)			
⅛ in	12N773	12N774	12N775
3/16 in	12N776	12N777	12N778
¼ in	12N779	12N780	12N781
5/16 in	12N782	12N783	12N784
⅜ in	12N785	12N786	12N787
7/16 in	12N788	12N789	12N790
½ in	12N791	12N792	12N793
9/16 in	12N794	12N795	12N796
⅝ in	12N797	12N798	12N799
¾ in	12N801	12N802	12N803
(E) 1578 Carbon Packing with PTFE (Continuous Filament)			
⅛ in	12N804	12P726	12P727
3/16 in	12P728	12P729	12P730
¼ in	12P731	12P732	12P733
5/16 in	12P734	12P735	12P736
⅜ in	12P737	12P738	12P739
7/16 in	12P740	12P741	12P742
½ in	12P743	12P744	12P745
9/16 in	12P746	12P747	12P748
⅝ in	12P749	12P750	12P751
¾ in	12P752	12P753	12P754
(F) 5000 Flexible Graphite			
⅛ in	4VKU4	4VKU5	4VKU6
3/16 in	4VKU7	4VKU8	4VKU9
¼ in	4VKV1	4VKV2	4VKV3
5/16 in	4VKV4	4VKV5	4VKV6
⅜ in	4VKV7	4VKV8	4VKV9
7/16 in	4VKW1	4VKW2	4VKW3
½ in	4VKW4	4VKW5	4VKW6
⅝ in	4VKW7	4VKW8	4VKW9
¾ in	4VKX1	4VKX2	4VKX3
(G) 5080 Flexible Graphite Packing with Carbon Corners			
¼ in	4VKR1	4VKR2	4VKR3
5/16 in	4VKR4	4VKR5	4VKR6
⅜ in	4VKR7	4VKR8	4VKR9
7/16 in	4VKT1	4VKT2	4VKT3
½ in	4VKT4	4VKT5	4VKT6
⅝ in	4VKT7	4VKT8	4VKT9
¾ in	4VKU1	4VKU2	4VKU3
(H) 1367H PTFE			
⅛ in	4VLR4	4VLR5	4VLR6
3/16 in	4VLR7	4VLR8	4VLR9
¼ in	4VLT1	4VLT2	4VLT3
5/16 in	4VLT4	4VLT5	4VLT6
⅜ in	4VLT7	4VLT8	4VLT9
7/16 in	4VLU1	4VLU2	4VLU3
½ in	4VLU4	4VLU5	4VLU6
⅝ in	4VLU7	4VLU8	4VLU9
¾ in	4VLV1	4VLV2	4VLV3
(I) 5000W Flexible Graphite Packing with Inconel Wire			
⅛ in	4VLL4	4VLL5	4VLL6
3/16 in	4VLL7	4VLL8	4VLL9
¼ in	4VLN1	4VLN2	4VLN3
5/16 in	4VLN4	4VLN5	4VLN6
⅜ in	4VLN7	4VLN8	4VLN9
7/16 in	4VLP1	4VLP2	4VLP3
½ in	4VLP4	4VLP5	4VLP6
⅝ in	4VLP7	4VLP8	4VLP9
¾ in	4VLR1	4VLR2	4VLR3

Extractor
4VLV4

Tip
4VLW5

Cutter
4VLX5

Blade
6FLH6

Knife
6FLH5

Palmetto®

Compression Packing Extraction and Insertion Tools

Extractors remove compression packing rings from pumps and valves for replacement. Interchangeable corkscrew and woodscrew tips allow removal of both fibrous and hardened packing. Flexible shafts make it easier to remove hard-to-reach packings.

Tamping Tools are used to install packing rings into the stuffing box.

Size	Overall Length	Packing Spaces	Item No.
Solid Shaft Packing Extractor/Pick, Pick Tip			
P-7	10 in	1/8 in and Up	**4VLW2**
P-8	10 in	3/16 in and Up	**4VLW3**
P-9	10 in	5/16 in and Up	**4VLW4**
Flexible Shaft Packing Extractor, Removable Tip			
F-1	7 ½ in	¼ in and Up	**4VLV4**
F-2	11 in	⅜ in and Up	**4VLV5**
F-3	14 ½ in	½ in and Up	**4VLV6**
Flexible Shaft Packing Extractor, Non-Removable Tip			
F-0	6 ½ in	⅛ in and Up	**4VLV7**
F-4	19 in	⅝ in and Up	**4VLV8**
F-5	23 in	¾ in and Up	**4VLV9**
F-6	30 in	1 in and Up	**4VLW1**

Size	Overall Length	Item No.
Packing Extractor Replacement Tip, Corkscrew		
C-1	1 ½ in	**4VLW5**
C-2	2 in	**4VLW6**
C-3	2 ½ in	**4VLW7**
Packing Extractor Replacement Tip, Woodscrew		
W-1	1 ½ in	**4VLW8**
W-2	2 in	**4VLW9**
W-3	2 ½ in	**4VLX1**
Packing Tamping Tools		
¼ in	7 ½ in	**12N763**
⅜ in	10 in	**12N764**
½ in	16 in	**12N765**
Packing Injection Gun		
—	28 in	**12N769** *
Packing Injection Gun Fittings		
¼ in	1 in	**12N770** *
⅜ in	1 in	**12N771** *
½ in	1 in	**12N772** *

***** *Injection packing available at Grainger.com.*

Type	Item No.
Packing Cutters	
Guillotine	**4VLX4**
Hand Held	**4VLX5**
Blade	**6FLH6**
Knife	**6FLH5**

Description	Size	Item No.
Packing Cutter Replacement Blades		
For 4VLX4	1⅛ in x 4 in	**36G238**
For 4VLX5	1 in x 3 in	**36G239**

Extractor Tool Kit Set C
6FLH7

Tip	Includes	Item No.
Packing Extractor Set A		
Corkscrew	(2) 4VLV4, (2) 4VLV5, (1) 4VLW5, (1) 4VLW6, (1) 4VLW2, (1) 4VLW3, (1) 4VLW4, (1) Wrench, (1) Toolbox	**4VLX2**
Packing Extractor Set B		
Corkscrew and Woodscrew	(2) 4VLV4, (2) 4VLV5, (2) 4VLV6, (1) 4VLW5, (1) 4VLW6, (1) 4VLW7, (1) 4VLW8, (1) 4VLW9, (1) 4VLX1, (1) 4VLW2, (1) 4VLW3, (1) 4VLW4, Wrench, Toolbox	**4VLX3**
Tool Kit Set C		
—	(2) 10 in Stiff Extractors, (2) 11 in Flexible Extractors With Tips, (2) 14 in Stiff Extractors, (2) 14½ in Flexible Extractors With Tips, (2) 6 in O-Ring Extractor, (2) 6 in Stiff Extractors, (2) 7½ in Flexible Extractors With Tips, (5) 1½ in Cork Screw Tips, (5) 2 in Cork Screw Tips, (5) 2½ in Cork Screw Tips, 1½ in Wood Screw Tip, 10 in Pick ⅛ in And Up, 10 in Pick 3/16 in And Up, 10 in Pick 5/16 in And Up, 2 in Wood Screw Tip, 2½ in Wood Screw Tip, 5 in Packing Knife With Leather Sheath, B1 Brush, B2 Brush, LG1 Lantern Ring Extractor, LG2 Lantern Ring Extractor, Plastic Tool Box, Wrench	**6FLH7**

Palmetto®

Packing Seals

- **Standard industry seal 981**
- **Pkg. of 6**

Self-adjusting, shaft-mounted axial lip seals are designed to deflect dust, dirt, mud, and water away from shafts and prevent lubricant loss. Flexible, hinged lip needs no special machining to fit tightly to shaft. Seals automatically vent excess grease during regreasing.

Resilient nitrile rubber (NBR) material stretches over shaft obstructions for easy installation; its natural tension holds the seal in place while the shaft turns.

Shaft Size (in.)	Seal Bore (in.)	Seal Thickness	Item No.
¼ in	35/64 in	0.19 in	**12N746**
⅜ in	57/64 in	0.25 in	**12N747**
½ in	1 in	0.25 in	**12N748**
⅝ in	1 15/64 in	0.375 in	**12N749**
¾ in	1 23/64 in	0.375 in	**12N750**
1 in	1 39/64 in	0.375 in	**12N751**
1 ¼ in	1 55/64 in	0.375 in	**12N752**
1 ½ in	2 7/64 in	0.375 in	**12N753**
1 ¾ in	2 23/64 in	0.375 in	**12N754**
2 in	2 39/64 in	0.375 in	**12N755**
2 ¼ in	2 55/64 in	0.375 in	**12N756**
2 ½ in	3 7/64 in	0.5 in	**12N757**
2 ¾ in	3 23/64 in	0.5 in	**12N758**
3 in	3 39/64 in	0.5 in	**12N759**
3 ¼ in	3 55/64 in	0.5 in	**12N760**
3 ½ in	4 7/64 in	0.5 in	**12N761**
4 in	4 39/64 in	0.5 in	**12N762**

Pac-Seal Replacement Pump Shaft Seals

- Buna elastomer temp. range: -40° to 225°F
- Viton® elastomer temp. range: -25° to 400°F
- PTFE elastomer temp. range: -350° to 500°F
- 2cc P80 lubricant is included with every seal

Rotary units have crimped head to withstand higher pressures and shaft speeds; stay in-place during installation and protect against being dislodged by foreign material. Hex-torque drive system provides longer seal life and helps reduce wear on shaft.

Types 8T/9T—High-quality, positively driven multispring pusher style for industrial and severe chemical applications. The rotary unit is set-screwed to the shaft for positive drive. Rotaries feature replaceable seal rings. O-ring mount.

- Replace Crane Type 8 and 9, respectively

Type 16—Offer greater pressure and speed capabilities. Unitized rotary seal incorporates crimped-head design and hex-torque drive.

- Replace US Seal Type A, Crane Type 6, and Sealol Type 60L

Types 21/31—Offer dependable sealing in mechanical pumps up to 250 psi. Hex-shaped outer shell reduces stress on components. Type 31 O-ring mount. 1R316, 5NC05, 1R307, and 1R301 need no spring retainer.

- Replace US Seal Type C, Crane Type 21, and Sealol Type 43

Types 51/52—Convolution in seal bellows allows for greater axial movement and shaft deflection than Type 21. Narrow cross-section for ANSI and DIN 24960 seal bores.

- Replace US Seal Types E, D, and Crane Types 1 and 2

Type 8T/9T Type 16 Type 21/31

Type 68—Designed for use in pool and spa pumps. Install with the spring-loaded portion pressed into the pump housing and the mating ring rotating with the shaft.

- Replace US Seal Type B and Crane Type 6A

Type 51/52

Type 68

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore (in.)	Seat Thick. (in,)	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 8T						
1	1	1.625	0.437	VCRJR	—	**5NC50**
Seal Type 9T						
¾	0.937	1.375	0.406	QCRJR	—	**5NC55**
1	1	1.625	0.437	QCRJR	—	**5NC56**
1 ¼	1	1.875	0.437	QCRJR	—	**5NC57**
Seal Type 16						
⅝	0.718	1.187	0.343	BMFJF	100	**1R311**
⅝	0.718	1.25	0.406	VCFJF	200V, 516V	**1R300**
⅝	0.718	1.25	0.406	BMFJF	516	**1R303**
⅝	0.718	1.25	0.406	BMFJF	200	**1R312**
⅝	0.812	1.25	0.406	BMFJF	501, 909	**1R315**
¾	0.718	1.375	0.406	VCFJF	201V, 851V	**1R245**
¾	0.718	1.375	0.406	BMFJF	851	**1R299**
¾	0.718	1.375	0.406	BMFJF	201	**1R313**
¾	0.812	1.437	0.406	BMFJF	101	**1R319**
1	0.812	1.625	0.437	BMFJF	360	**5NC01**

MATERIAL CONTENT

Elastomer (1st Letter)	Seal Ring (2nd Letter)	Shell (3rd Letter)	Seat (4th Letter)	Spring (5th Letter)
B = Buna	C = Carbon	F = Stainless Steel	J = Ceramic	F = Stainless Steel
V = Viton®	M = Molded Plastic	R = 316 Stainless Steel	F = Stainless Steel	R = 316 Stainless Steel
Q = PTFE	X = Silicon Carbide		X = Silicon Carbide	
			K = Ni-Resist	

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore (in.)	Seat Thick. (in,)	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 21						
½	0.75	0.934	0.237	BCFJF	392	**5NC03**
½	0.812	1	0.312	BCFJF	1002, 168	**5NC02**
⅝	0.718	1.25	0.406	BCFJF	10619	**5NC06**
⅝	0.875	1.25	0.406	BCFJF	—	**1R304**
⅝	0.875	1.25	0.406	BCFJF	508	**1R316**
⅝	0.875	1.25	0.375	BCFKF	732, 734	**5NC04**
⅝	0.875	1.25	0.406	VCFJF	359V	**5NC07**
⅝	1.312	1.148	0.312	VCRJR	800	**5NC05**
⅝	1.328	1.141	0.313	BCFJF	—	**1R307**
¾	0.718	1.375	0.406	BCFJF	—	**1R308**
¾	0.875	1.375	0.406	VCFJF	—	**1R309**
⅞	0.937	1.5	0.406	BCFJF	309, 703	**5NC08**
1	1	1.625	0.437	VCFKF	248V	**5NC10**
1	1.0	1.625	0.437	BCFJF	235, 380, 813	**5NC09**
1 ⅛	1.062	1.75	0.437	BCFJF	—	**1R301**
1 ⅛	1.062	1.75	0.437	VXFXF	—	**4P974**
1 ⅛	1.062	1.75	0.437	BCFJF	344, 356, 604, 814	**5NC11**
1 ¼	1.062	1.875	0.437	BCFJF	11204, 185, 786	**1R439**
1 ¼	1.062	1.875	0.437	VCFJF	185V, 786V	**5NC12**
1 ⅜	1.125	2	0.437	BCFJF	177, 491	**5NC14**
1 ½	1.125	2.125	0.437	BCFJF	11504, 382, 758	**5NC15**
1 ¾	1.312	2.5	0.5	BCFJF	237, 446	**5NC16**
1 ¼	1.625	1.875	0.437	BCFJF	361-21	**5NC13**
1 ¾	2.0	2.5	0.5	BCFJF	205-21	**5NC17**
2	1.5	2.75	0.5	BCFJF	267, 445	**5NC18**

Shaft Size (in.)	Nom. Working Length (in.)	Seat Bore (in.)	Seat Thick. (in,)	Material Content (see above)	Std. Industry Seal No.	Item No.
Seal Type 31						
¾	0.718	1.375	0.406	VXFXF	—	**5NC20**
¾	0.875	1.375	0.406	VXFXF	265VSC	**5NC19**
⅞	0.937	1.5	0.406	VXFXF	250VSC	**5NC21**
1 ¼	1.062	1.875	0.473	VXFXF	—	**5NC23**
1 ½	1.125	2.125	0.473	VXFXF	939VSC	**5NC24**
Seal Type 51						
¾	1.312	1.375	0.406	VCRJR	—	**5NC26**
⅞	1.375	1.5	0.406	VCRJR	—	**5NC27**
1	1.562	1.625	0.437	VCRJR	754V	**5NC28**
1 ⅛	1.625	1.75	0.437	VCRJR	204V	**5NC29**
1 ¼	1.625	1.875	0.437	VCRJR	361V	**5NC30**
1 ⅜	1.687	2	0.437	VCRJR	354V	**5NC31**
1 ½	1.687	2.125	0.437	VCRJR	305V, 899V	**5NC32**
1 ¾	2	2.5	0.5	VCRJR	205V	**5NC34**
1 ⅞	2.125	2.625	0.5	VCRJR	523V	**5NC35**
2	2.125	2.75	0.5	VCRJR	479V	**5NC36**
2 ¼	2.375	3.125	0.562	VCRJR	—	**5NC38**
Seal Type 52						
1	1	1.625	0.437	VCRJR	—	**5NC40**
1 ¼	1.062	1.875	0.437	VCRJR	—	**5NC42**
1 ½	1.125	2.125	0.437	VCRJR	—	**5NC43**
Seal Type 68						
⅝	0.615	1.078	0.21	BMFJF	80611	**1R302**
⅝	0.615	1.25	0.406	BMFJF	668	**1R317**
⅝	0.615	1.25	0.406	BMFJF	RS 1000SS	**1R318** *
⅝	0.615	shaft mtd	0.225	BMFFF	80613	**1R306**
⅝	0.615	shaft mtd	0.225	VCFFF	80613V	**1R324**
⅝	0.615	shaft mtd	0.213	BMFJF	—	**5NC45**
⅝	0.615	shaft mtd	0.213	BCFJF	—	**5NC46**

** Pac Seal brand.*

5NAR8

Eductor Jet Pumps

Pumps use high-pressure liquid or steam to create strong suction within the pump body. The suction draws a second liquid or gas into the pump and then forces it out, under pressure, through the discharge. Suitable for mixing fluids, vacuum pumping water, and seawater desalination.

Temp. range: -40° to 230°F, except liquid-operated PVC is -40° to 70°F. Max. head: 40 ft. Max. suction lift pumping liquids: 27 ft. liquid-operated models, 20 ft. steam-operated models. Inlet pressure pumping liquids: 35 to 150 psi, except 15 to 200 psi liquid-operated with 316 SS and bronze inlet and 15 to 100 psi liquid-operated with PVC inlet. Steam-operated models inlet pressure pumping gases: 20 to 80 psi.

Inlet	Suction Discharge	Sizing Factor	L	Brand	316 SS Item No.	BRASS Item No.	BRONZE Item No.	CAST IRON Item No.	PVC Item No.
Liquid Operated									
⅜ in NPT	¾ in NPT	0.2	5 ⅞ in	Dayton	**5NAR8**	—	—	—	—
½ in NPT	¾ in NPT	0.2	5 ⅞ in	Dayton	**5NAR9**	**5NAP5**	—	**5NAN1**	—
	1 in NPT	0.34	6 ⅞ in	Dayton	—	—	—	—	**5NAU3**
	1 in NPT	0.34	7 ⅛ in	Dayton	**5NAT0**	—	—	—	—
¾ in NPT	1¼ in NPT	0.61	9 in	Dayton	**5NAT1**	—	**5NAP7**	**5NAN3**	—
1 in NPT	1½ in NPT	1.0	11 in	Dayton	—	—	**5NAP8**	—	—
	1½ in NPT	1.0	11 1⁄16 in	Dayton	—	—	—	—	**5NAU5**
1¼ in NPT	2 in NPT	1.82	13 5⁄16 in	Dayton	—	—	—	—	**5NAU6**
	2 in NPT	1.82	14 7⁄16 in	Dayton	**5NAT3**	—	—	**5NAN5**	—
1½ in NPT	2 in NPT	2.85	13 5⁄16 in	—	—	—	—	—	**5NAU7**
	2 in NPT	2.85	14 7⁄16 in	Dayton	—	—	**5NAR0**	**5NAN6**	—
Steam Operated									
½ in NPT	¾ in NPT	0.2	5 ⅞ in	Dayton	—	**5NAR2**	—	—	—
¾ in NPT	1 in NPT	0.34	7 ⅛ in	Dayton	**5NAT7**	—	—	**5NAN9**	—
1 in NPT	1½ in NPT	1.0	11 in	Dayton	**5NAT9**	**5NAR5**	—	—	—
1½ in NPT	2 in NPT	2.85	14 7⁄16 in	Dayton	**5NAU1**	—	**5NAR7**	**5NAP3**	—

For Liquid-Operated Pumps*

Liquid Suction (gpm)

Discharge Head, ft.	5-ft. Lift 25 psi Water	5-ft. Lift 75 psi Water	5-ft. Lift 200 psi Water	15-ft. Lift 25 psi Water	15-ft. Lift 75 psi Water	15-ft. Lift 200 psi Water	25-ft. Lift 25 psi Water	25-ft. Lift 75 psi Water	25-ft. Lift 200 psi Water
0	32 gpm	38.9 gpm	41 gpm	25 gpm	34 gpm	37 gpm	10 gpm	24 gpm	29 gpm
10	15.1 gpm	38.9 gpm	41 gpm	9.4 gpm	34 gpm	37 gpm	—	24 gpm	29 gpm
20	—	38.9 gpm	41 gpm	—	34 gpm	37 gpm	—	24 gpm	29 gpm
30	—	33 gpm	34.8 gpm	—	28 gpm	31 gpm	—	17.8 gpm	21 gpm
40	—	21 gpm	22.5 gpm	—	17 gpm	18.5 gpm	—	8 gpm	9.6 gpm

For Steam-Operated Pumps*

Liquid Suction (gpm)

Discharge Head	5-ft. Lift 50 psi Water	5-ft. Lift 100 psi Water	5-ft. Lift 150 psi Water	10-ft. Lift 50 psi Water	10-ft. Lift 100 psi Water	10-ft. Lift 150 psi Water	20-ft. Lift 50 psi Water	20-ft. Lift 100 psi Water	20-ft. Lift 150 psi Water
0-40	53 gpm	48 gpm	30 gpm	46 gpm	40 gpm	22 gpm	28 gpm	21 gpm	8 gpm

Gas Suction (cfm)

Suction Pressure	30 psi Steam, Max. Outlet 0 psi	60 psi Steam, Max. Outlet 0 psi	90 psi Steam, Max. Outlet 0 psi
Atmos.	36 cfm	30 cfm	28 cfm
15" Hg	6 cfm	13 cfm	8 cfm

** Charts show suction flow based on a 1½" suction/discharge pipe size. To determine the suction flow for other pipe sizes, use the sizing factor shown in the table as a multiplier. For example, a pump with a 40-ft. discharge head, 5-ft. lift, and 200 psi water pressure, has a suction flow of 22.5 gpm (based on 1½" suction/discharge). For the suction flow of a pump with a 1¼" suction/discharge, multiply 22.5 gpm by the 0.61 sizing factor to get 13.7 gpm.*

Water Softener Salt

- Pkg. qty.: 1 bag
- Pack unit of measure: each
- Ship in pallet quantity (see Grainger.com for pallet quantities)

Softener salt neutralizes acid and removes minerals and scale buildup in water to extend the life of fixtures, pipes, and appliances, and resist bridging and mushing in the brine tank. Larger cubes are less likely to clump together compared to smaller salt crystals.

Crystal Form—Softener crystals help minimize tank residue and are made by evaporating salt water in shallow outdoor ponds. These crystals offer a natural option for softening hard water.

Pellet-Formed—Pellets or pillows form when smaller salt granules are compacted together. These larger salt pellets are less susceptible to clumping than smaller salt crystals.

Cube-Formed—Cubes form when smaller salt crystals are compacted together for extra hardness. The larger salt cubes help prevent salt from clumping in water softener tanks.

Pellet-Formed Salt with Iron Fighter Additives—Salt pellets have additives that soften water with high-iron content. They are pillow shaped and help prevent stains on laundry, fixtures, tubs, and sinks.

Cube-Formed with Iron Fighter Additives—Salt cubes soften water with high-iron content. They have a compacted shape for extra hardness and prevent stains on fixtures, sinks, tubs, and laundry.

Crystal Form
52ZX55

Pellet-Formed
42DA14

Cube-Formed
36JP55

Pellet-Formed w/ Iron Fighter Additives
53WX15

Cube-Formed w/ Iron Fighter Additives
52ZX54

Description	Container Size	Mfr. Model	Item No.
Crystal Form	50 lb	100012455	**52ZX55**
Pellet-Formed	40 lb	100012407	**42DA14**
	50 lb	6141550	**42DA15**
Cube-Formed	50 lb	100012409	**36JP55**
Pellet-Formed w/ Iron Fighter Additives	40 lb	100012408	**53WX15**
	50 lb	100012467	**45CL36**
Cube-Formed w/ Iron Fighter Additives	50 lb	100012432	**52ZX54**

LaMotte PurTest®

Water Analysis Test Strips and Kits

TEST STRIPS

Monitor water without reagents or full field kits. Use for drinking water, food/ beverage processing, and pool/spa water monitoring.

WATER ANALYSIS KITS

On-site kits use EPA-based methods to test tap water safety in private or public systems. Laboratory certified.

4EVZ3

Testing Parameter	Rang (ppm)	Item No.	Pkg. Qty.
Test Strips, LAMOTTE			
Bromine	0 to 10	**4EVZ6**	1
Chlorine	10/50/100/200	**4EWC7**	200
Chlorine Dioxide	0/10/25/50/100/250/500	**4EVX3**	50
Chlorine Dioxide Low Range	0/0.25/0.5/1/3/5/10	**4EVZ8**	50
Free Chlorine	0/0.5/1/3/10	**4EVZ5**	25
Free Chlorine	0/50/100/250/500/800	**4EVX4**	50
Hardness Low Range	0/30/60/120/180	**4EVU5**	50
Hydrogen Peroxide	0/15/30/50/90	**4EVU6**	25
Hydrogen Peroxide, Low	0/1/3/10/30/50	**3UEE2**	25
Nitrate	0/5/10/25/50	**4EVU9**	50
Peracetic Acid	0/10/20/50/85/160	**4EVX2**	50
Peracetic Acid Low Range	0/5/10/30/50	**4EVZ9**	50
QAC	200/400/600/1000/1500	**4EVZ3**	50
QAC	50/100/200/400	**4EVU1**	100
Total Chlorine	0/0.5/1/3/5	**4EVU3**	50
Total Chlorine	0/0.25/0.5/1 / 3 to 10	**4EVZ4**	25

Testing Parameter	Brand	Item No.	Pkg. Qty.
Water Analysis Kits, PURTEST			
Copper and Lead	Purtest	**5UZ80**	1
For Bacteria, Lead, Pesticide, Iron, Chlorine, Copper, Nitrate, Nitrite, Alkalinity, pH, and Hardness	Purtest	**5UZ83**	1
For E. Coli, Coliform Bacteria, Nitrates, and Nitrites	Purtest	**5UZ79**	1

Water Softeners

North Star Water Conditioning · 3M · Pentair Everpure · Pro Products LLC · Neutra 7®

Water softeners use an ion exchange process to convert hard water into soft water by reducing mineral content. Hard water inhibits the effectiveness of laundry detergents, soaps, and shampoos and can cause bathtub rings and spots on glassware. **Multi-Tank** units include separate resin and brine tanks that work in tandem to soften water.

Commercial Multi-Tank—Built for commercial use, they withstand constant use in hotels, restaurants, and large institutional facilities.

Residential Multi-Tank—These tanks connect by a fill tube and include a discharge tube to flush out excess brine water.

Residential Single-Tank—These systems consist of a resin tank and a brine tank in one cabinet for residential use. Single tanks have a smaller footprint than multi-tank softeners. These tanks use sensing technology to indicate softener efficiency while minimizing salt and water usage.

WATER SOFTENER CHEMICALS

Iron & Rust Removers—Remove rust and other ferrous debris from the internal components of a water softener.

Scale Inhibitor—Increases water treatment system efficiency by reducing the amount of scale in the system.

Water Neutralizer—Helps keep water system parameters within acceptable levels by moderating the pH level of the system or by introducing organic reactants to remove contaminants.

Drip Irrigation System—Metering pump system automatically injects solution from the feeder tank into an irrigation system.

Note: We recommend that water be analyzed before selecting water treatment equipment.

Commercial Multi-Tank
490R11

Residential Multi-Tank
54EJ97

Residential Single-Tank
490R05

5ZFW9

Pipe Size	Single Tank Maximum Grain Capacity	Resin Tank Size	Single Tank Max. Resin Cap. (cu. ft.)	Brine Tank Size	Brine Tank Cap. (lb.)	Single Tank Max. Flow Rate Scale (gpm)	Single Tank Regeneration Water Used	Mfr. Model	Item No.
Commercial Multi-Tank Water Softeners, NORTH STAR									
1 Resin Tank; 1 Brine Tank									
1"	71,000	12 3/10" x 54"	2	17" x 38½"	340	15	108 gal	PA071S	**490R11**
	99,000	17⅗" x 59½"	3	24" x 50½"	1,000	20	166 gal	PA101S	**490R07**
	132,000	17⅗" x 59½"	4	24" x 50½"	1,000	20	180 gal	PA131S	**490R12**
2"	132,000	17" x 58"	4	24" x 50"	1,000	40	166 gal	PA132S	**490R09**
	330,000	24" x 72"	10	31" x 51"	1,500	70	332 gal	PA322S	**490R06**
2 Resin Tank; 1 Brine Tank									
1"	71,000	12 3/10" x 54"	2	17" x 38½"	340	15	108 gal	PA071D	**490R13**
2"	330,000	24" x 72"	10	31" x 51"	1,500	70	332 gal	PA322D	**490R16**
Residential Multi-Tank Water Softeners, 3M									
1 Resin Tank; 1 Brine Tank									
¼"	56,800	10" x 54"	2	15" x 34"	160	27	78 gal	3MWTS200-125	**54EJ99**
1"	29,000	8" x 44"	1	15" x 34"	160	27	44 gal	3MWTS100	**54EJ97**
	43,000	10" x 44"	1.5	15" x 34"	160	27	77 gal	3MWTS150	**54EJ98**

Pipe Size	Single Tank Maximum Grain Capacity	Single Tank Max. Resin Cap. (cu. ft.)	Overall Height	Overall Width	Overall Depth	Single Tank Max. Flow Rate (gpm)	Mfr. Model	Item No.
Residential Single-Tank Water Softeners, NORTH STAR								
1"	22,100	0.65	47¾"	16½"	19¾"	7.2	NSC22	**490R03**
	31,300	0.81	47¾"	16½"	19¾"	7.2	NSC31	**490R04**
	42,100	1.2	48"	17"	21"	9.9	NSC42	**490R05**

Description	Removes	Container Size	Item No.
Water Softener Chemicals			
Iron & Rust Removers, PRO PRODUCTS			
Feeder Dispenser	Calcium	1 oz	**25FL87**
Potassium Permanganate	Iron, Manganese	28 oz	**29JA66**
Res Care Liquid Resin Cleaning Solution	Calcium	1 qt	**5ZFX1**
Rust Out	Iron, Rust Build Up	22 oz	**5ZFW9**
Softener Mate All-Purpose Water Softener Cleaner	Iron, Manganese, Metal, Silt	1.5 lb	**5ZFX0**
Scale Inhibitors, PENTAIR/EVERPURE			
SCALEKLEEN	Scale	2.2 lb	**5WFH0**
Water Neutralizers, NEUTRA 7			
Prevents Corrosion	—	7 lb	**41N527**
Drip Irrigation System, PRO PRODUCTS			
Injection Feeder System	—	—	**39AP34**

Whole-House Drinking Water Filters

These filters connect to water supply lines entering houses or buildings to remove contaminants, protect pipes and appliances, and improve water quality.

Whole-House Drop In Water Filters are cartridges that fit inside a filter housing and are easily replaced. Filter housing required.

Whole-House Quick Connect Water Filters are cartridges with encapsulated filter media inside. Replacement is fast and easy without a filter wrench.

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Filter Media	Item No.	Pkg. Qty.
Whole-House Drop In Water Filters								
3M Aqua-Pure								
Scale, Sediment	5 micron	8 gpm	35,000 gal	9¾"	2⅝"	Polypropylene	**3P775**	2
Sediment	1 micron	8 gpm	6,000 gal	10"	2½"	Polypropylene	**49X985**	2
	5 micron	3 gpm	750 gal	9¾"	3"	Carbon	**1P754**	2
	5 micron	8 gpm	750 gal	9¾"	2½"	Polypropylene	**1P753**	2
	5 micron	16 gpm	1,500 gal	19½"	2⅝"	Polypropylene	**2LMT6**	1
	5 micron	20 gpm	Not Available	9¾"	4⅝"	Polypropylene	**4LW37**	1
	5 micron	45 gpm	Not Available	20"	4½"	Polypropylene	**4RP83**	1
	25 micron	10 gpm	40,000 gal	9¾"	4½"	Carbon	**1ZKX3**	1
	25 micron	20 gpm	80,000 gal	20"	4½"	Carbon	**1ZKK2**	1
	25 micron	20 gpm	Not Available	9¾"	4⅝"	Polypropylene	**4RP82**	1
	25 micron	45 gpm	Not Available	20"	4⅝"	Polypropylene	**4RP84**	1
	50 micron	8 gpm	Not Available	9¾"	2⅝"	Polypropylene	**4LW36**	2
	50 micron	16 gpm	1,500 gal	20"	2½"	Polypropylene	**2LMU1**	1
Culligan								
Dirt, Rust, Scale, Sediment	20 micron	5 gpm	16,000 gal	9¾"	2⅝"	Cellulose	**29AH42**	1
	30 micron	4 gpm	12,000 gal	9¾"	2½"	Polypropylene	**29AH46**	1
	50 micron	10 gpm	24,000 gal	9¾"	4½"	Polyester	**29AH48**	1
Dirt, Rust, Scale, Sediment, Silt	1 micron	5 gpm	8,000 gal	9¾"	2½"	Polypropylene	**29AH44**	1
	5 micron	5 gpm	8,000 gal	9¾"	2½"	Polypropylene	**29AH43**	1
	10 micron	4 gpm	12,000 gal	9¾"	2½"	Polyester	**29AH45**	1
Dupont								
Rust, Sediment	30 micron	10 gpm	30,000 gal	10"	4"	Polypropylene	**25CA66**	1
Rust, Sediment, Silt	5 micron	5 gpm	15,000 gal	10"	2"	Carbon, Polypropylene	**25CA68**	2
Pentair/Pentek								
Chlorine Taste and Odor, Sediment	25 micron	2 gpm	50,000 gal	9¾"		Carbon	**3FRT8**	1
	25 micron	4 gpm	100,000 gal	20"		Carbon	**53DT20**	1
Whole-House Quick Connect Water Filters								
3M								
Particulates	5 micron	20 gpm	100,010 gal	21"	4½"	Carbon	**2MHW8**	1
Particulates, Rust	5 micron	20 gpm	100,000 gal	21"	4½"	Carbon	**10U923**	1
Particulates, Scale	5 micron	20 gpm	100,000 gal	21"	4½"	Carbon	**10U924**	1
3M Aqua-Pure								
Scale	Not Rated	10 gpm	1,500 gal	8"	2¾"	Polypropylene	**3P777**	1

Whole-House Drop In 1P753

Whole-House Quick Connect 10U923

Under-Sink Drinking Water Filters

Under-Sink Drop In Water Filters install to a single water connection to reduce contaminants and improve water quality at the faucet. These cartridges fit inside a filter housing and are easily replaced. Individual filter housing is required.

Under-Sink Quick Connect Water Filters are cartridges with encapsulated filter media inside. Replacement is fast and easy without a filter wrench. Under-sink or point-of-use filters install to a single water connection to remove contaminants and improve water quality at the faucet.

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Filter Media	Item No.	Pkg. Qty.
Under-Sink Drop In Water Filters								
Pentair/Pentek								
Chloramine, Chlorine Taste and Odor, Sediment	1 micron	1 gpm	2,500 gal	9¾"	2⅞"	Carbon	**1EDA3**	1
	25 micron	2.5 gpm	25,000 gal	20"	4½"	Carbon	**1ECZ9**	1
Chlorine Taste and Odor	0.5 micron	1 gpm	3,000 gal	4⅞"	2⅞"	Carbon	**4PCC9**	1
	20 micron	1 gpm	5,000 gal	9¾"	2⅞"	Carbon	**53DP69**	1
Chlorine Taste and Odor, Methyl Tertiary Butyl Ether (MTBE), Volatile Organic Compounds (VOCs)	20 micron	1 gpm	7,500 gal	9¾"	2⅞"	Carbon	**4BA89**	1
Chlorine Taste and Odor, Sediment	0.5 micron	0.6 gpm	20,000 gal	9¾"	2⅞"	Carbon	**1ECZ5**	1
	0.5 micron	2.5 gpm	5,000 gal	9¾"	2⅞"	Carbon	**6RKE5**	1
	5 micron	1 gpm	10,000 gal	9¾"	2⅞"	Carbon	**4PCC2**	1
	5 micron	2 gpm	22,000 gal	9¾"	6⅝"	Carbon	**4PCD1**	1
	5 micron	2 gpm	25,000 gal	9¾"	4⅝"	Carbon	**6RKE3**	1
	5 micron	2.5 gpm	2,500 gal	4⅞"	2½"	Carbon	**6RKE9**	1
	5 micron	4 gpm	40,000 gal	20"	6⅝"	Carbon	**4PCD2**	1
	5 micron	4 gpm	50,000 gal	20"	4⅝"	Carbon	**6RKE4**	1
	5 micron	5 gpm	5,000 gal	9¾"	2⅞"	Carbon	**3FRT9**	1
	10 micron	1 gpm	2,000 gal	9¾"	2⅝"	Carbon	**6RKE6**	1
	10 micron	1 gpm	3,000 gal	9¾"	2⅞"	Carbon	**4PCC8**	1
	10 micron	1 gpm	5,000 gal	9¾"	2⅞"	Carbon	**6RKE7**	1
	10 micron	2 gpm	6,000 gal	20"	2⅞"	Carbon	**4PCD3**	1
	10 micron	2 gpm	10,000 gal	20"	2⅞"	Carbon	**6RKE8**	1
Oil	Not Rated	10 gpm	—	20"	4½"	Carbon	**4BB22**	1
Under-Sink Quick Connect Water Filters								
3M Aqua-Pure								
Asbestos, Cyst, Lead, Particulates	0.5 micron	0.6 gpm	1,500 gal	13⅜"	4"	Carbon	**49Y007**	1
Asbestos, Cyst, Lead, Particulates, Sediment, Turbidity	0.5 micron	0.5 gpm	1,150 gal	14⅜"	3⅜"	Carbon	**1WXR9**	1
Cyst, Lead, Mercury, Particulates, Volatile Organic Compounds (VOCs)	0.5 micron	0.8 gpm	750 gal	11⅝"	2⅜"	Carbon	**1MZU9**	1
Cyst, Lead, Sediment	0.5 micron	0.8 gpm	750 gal	12⅞"	2⅜"	Polypropylene	**1MZU6**	1
Dirt, Scale, Sediment	5 micron	1.8 gpm	2,000 gal	9⅝"	3¼"	Carbon	**3P781**	1
Lead, Methyl Tertiary Butyl Ether (MTBE), Volatile Organic Compounds (VOCs)	0.5 micron	8.3 gpm	630 gal	11¾"	3¼"	Polypropylene	**5PR97**	1
Lead, Sediment, Volatile Organic Compounds (VOCs)	0.5 micron	1.5 gpm	2,000 gal	13⅝"	3¼"	Polypropylene	**5REE7**	1
Particulates	0.5 micron	0.5 gpm	2,000 gal	14⅜"	3⅜"	Carbon	**1WXR8**	1
	0.5 micron	0.6 gpm	1,500 gal	14⅜"	3¼"	Polypropylene	**4LW41**	1
Sediment	0.2 micron	2.5 gpm	6,000 gal	4½"	4½"	Carbon	**35Z835**	1
	5 micron	2 gpm	2,000 gal	6⅝"	4⅞"	Carbon	**2P076**	2
Culligan								
Atrazine, Cyst, Lead, Lindane, Mercury, Methyl Tertiary Butyl Ether (MTBE), Particulates, Sediment, Volatile Organic Compounds (VOCs)	0.5 micron	0.5 gpm	500 gal	12½"	2¾"	Carbon	**29AH58**	1
Nephros								
Bacteria, Endotoxin, Viruses	0.005 micron	3 gpm	Not Rated	13"	2½"	Medisulfone; Polysulfone	**55AV46**	1
Pentair/Pentek								
Atrazine, Chlorine Taste and Odor, Lead, Lindane, Sediment	0.5 micron	0.5 gpm	500 gal	8⅞"	2¼"	Carbon	**1ECZ8**	1
Chlorine Taste and Odor, Sediment	20 micron	0.8 gpm	2,500 gal	9¾"	2⅜"	Carbon	**6XUV2**	1
Purlogix								
Chlorine Taste and Odor	5 micron	0.8 gpm	2,500 gal	11"	2½"	Carbon	**39AP26**	1

Under-Sink Drop In 3FRT9

Under-Sink Quick Connect 35Z835

3M Aqua-Pure 6YJ19

Culligan 29AH40

Pentair/ Pentek 1ECP8

Drinking Water Filter Housings

Housings hold compatible drinking water filter cartridges. They are composed of two parts: the filter cap and the filter sump. The sump is the container that holds the filter cartridge in place and channels water through it for filtering. The filter cap allows water to flow in and out of the sump correctly.

Flow Rate	Connec. Size	Max. Pressure	Overall Height	Overall Dia.	Color	Housing Material	Max. Pressure	Maximum Temperature	Mfr. Model	Item No.
3M Aqua-Pure										
8 gpm	¾"	300 psi	12"	4⅛"	Silver	304 Stainless Steel	300 psi	200 °F	5592001	**6YJ19**
16 gpm	¾"	125 psi	24⅛"	4⅝"	Clear	Acetal/Isoplast	125 psi	100 °F	5530008	**1ZKK5**
20 gpm	1"	100 psi	14⅛"	7⅛"	Blue	Polypropylene	100 psi	100 °F	AP801B	**61HJ88**
	1"	100 psi	14⅛"	7⅛"	Clear	Polypropylene	100 psi	100 °F	AP801T	**61HJ90**
45 gpm	1"	100 psi	24½"	7⅛"	Blue	Polypropylene	100 psi	100 °F	AP802B	**61HJ89**
Culligan										
4 gpm	¾"	125 psi	12½"	5"	Blue	Polypropylene	125 psi	100 °F	HF-150A	**29AH40**
8 gpm	1"	100 psi	15⅝"	8⅜"	Clear	Styrene Acrylonitrile	100 psi	100 °F	WH-HD200-C	**53CF05**
10 gpm	1"	100 psi	13¾"	7⅛"	Blue	Polypropylene	100 psi	100 °F	HD-950A	**29AH47**
Pentair/Pentek										
8 gpm	½"	125 psi	11¾"	4⅜"	Black	Nylon	125 psi	160 °F	158319-75	**4BB50**
10 gpm	¾"	125 psi	12¼"	5⅛"	Blue	Polypropylene	125 psi	125 °F	150067-75	**1ECP4**
	¾"	125 psi	12⅝"	5¼"	Clear	Styrene Acrylonitrile	125 psi	125 °F	150435-75	**1ECP8**
	¾"	125 psi	12⅝"	5¼"	Clear	Styrene Acrylonitrile	125 psi	125 °F	150071-75	**53DP10**
	¾"	125 psi	22⅜"	5⅛"	Blue	Polypropylene	125 psi	125 °F	150069-75	**1ECP5**
	¾"	250 psi	12⅞"	4⅛"	Silver	304 Stainless Steel	250 psi	275 °F	156017-75	**4PCC1**
15 gpm	1"	90 psi	13¼"	7½"	Blue	Polypropylene	90 psi	100 °F	150237-75	**4BA76**
	1"	90 psi	23¼"	7½"	Blue	Polypropylene	90 psi	100 °F	150233-75	**4BA77**
	¾"	90 psi	23"	7⅜"	Blue	Polypropylene	90 psi	100 °F	150467-75	**1ECP9**
	¾"	100 psi	12¾"	7⅜"	Blue	Polypropylene	100 psi	100 °F	150469-75	**1ECR1**
20 gpm	1½"	90 psi	13½"	7½"	Blue	Polypropylene	90 psi	100 °F	150239-75	**1ECP7**
	1½"	90 psi	23¾"	7½"	Blue	Polypropylene	90 psi	100 °F	150235-75	**1ECP6**

3M Aqua-Pure 2P275

Pentair/ Pentek 1ECR5

Whole-House Drinking Water Filtration Systems

- Include filter, housing, & head

Filters connect to water supply lines entering houses or buildings to remove contaminants, protect pipes and appliances, and improve water quality.

Reduces	Micron Rating	Flow Rate	Service Life	Connec. Size	H	W	Includes Valve	Max. Pressure	Maximum Temperature	Mfr. Model	Brand	Item No.
Chlorine Taste and Odor, Particulates	5 micron	20 gpm	100,000 gal	1"	25⅛"	4½"	Yes	125 psi	100 °F	5621102	3M	**2MHW7**
Chlorine Taste and Odor, Particulates, Rust, Scale	5 micron	20 gpm	100,000 gal	1"	25"	4½"	Yes	125 psi	100 °F	5621104	3M Aqua-Pure	**49Y028**
Chlorine Taste and Odor, Rust, Scale, Sediment	5 micron	8 gpm	—	¾"	13⁷⁄₁₀"	4⅝"	—	125 psi	100 °F	5529902	3M Aqua-Pure	**3BU37**
	5 micron	8 gpm	—	¾"	14⁹⁄₁₀"	4⅝"	—	125 psi	100 °F	5530002	3M Aqua-Pure	**2P275**
Chlorine Taste and Odor, Sediment	5 micron	1 gpm	5,000 gal	¾"	12¼"	5⅛"	Yes	125 psi	125 °F	150522-75	Pentair/Pentek	**1ECR3**
	25 micron	2 gpm	50,000 gal	1"	13⅛"	7¼"	Yes	100 psi	100 °F	150518-75	Pentair/Pentek	**1ECR2**
Dirt, Rust, Scale, Sediment, Silt	5 micron	1.5 gpm	8,000 gal	¾"	13"	5"	—	125 psi	100 °F	HF-360A	Culligan	**29AH41**
Particulates	5 micron	20 gpm	100,000 gal	1"	25⅛"	4½"	Yes	125 psi	100 °F	5621101	3M	**2MHW6**
Rust, Silt	20 micron	5 gpm	15,000 gal	¾"	13¼"	5"	Yes	100 psi	100 °F	WFPF38001C	Dupont	**25CA63**
	20 micron	10 gpm	30,000 gal	1"	13¾"	7⅛"	No	100 psi	100 °F	WFHD13001B	Dupont	**25CA62**
Scale	Not Rated	10 gpm	35,800 gal	¾"	10¼"	2¾"	No	125 psi	100 °F	AP43011	3M Aqua-Pure	**3P776**
Sediment	5 micron	2 gpm	—	⅜"	7⅜"	4⅝"	Yes	125 psi	125 °F	158581-75	Pentair/Pentek	**1ECR5**

Pentair 245DC3

3M Aqua-Pure 5REE6

Under-Sink Drinking Water Filtration Systems

- Include filter, housing, & head

Under-sink filters install to a single water connection to reduce contaminants and improve water quality at the faucet.

Reduces	Micron Rating	Flow Rate	Service Life	Connec. Size	H	W	Includes Valve	Max. Pressure	Maximum Temperature	Mfr. Model	Brand	Item No.
Atrazine, Bacteria, Chlorine Taste and Odor, Cyst, Lead, Lindane, Turbidity, Viruses	1 micron	1 gpm	1,000 gal	¼"	11¾"	12"	No	100 psi	100 °F	WFQT390005	Dupont	**25CA76**
Atrazine, Chloramine, Chlorine Taste and Odor, Cyst, Lead, Lindane, Mercury, Methyl Tertiary Butyl Ether (MTBE), Particulates, Sediment, Turbidity, Volatile Organic Compounds (VOCs)	0.5 micron	0.5 gpm	500 gal	¼"	14"	3¾"	Yes	100 psi	100 °F	US-EZ-4	Culligan	**29AH55**
Atrazine, Chlorine Taste and Odor, Cyst, Lead, Lindane, Sediment	0.5 micron	0.6 gpm	750 gal	⅜"	12¼"	3½"	Yes	100 psi	100 °F	F1000-B1B	Pentair	**245DC3**
Atrazine, Chlorine Taste and Odor, Cyst, Lead, Lindane, Sediment, Volatile Organic Compounds (VOCs)	0.5 micron	0.6 gpm	675 gal	⅜"	12½"	8"	Yes	100 psi	100 °F	F2000-B2M	Pentair	**245DC4**
	0.5 micron	0.6 gpm	675 gal	⅜"	12½"	11¼"	Yes	100 psi	100 °F	F3000-B2M	Pentair	**245DC5**
Bacteria, Chlorine Taste and Odor, Cyst, Lead, Sediment, Trihalomethanes (TTHM)	0.5 micron	0.5 gpm	480 gal	⅜"	19"	4¼"	No	125 psi	100 °F	EV927570-75	Pentair/Everpure	**23MU14**
Chlorine Taste and Odor	5 micron	1 gpm	1,000 gal	⅜"	12"	4"	Yes	125 psi	100 °F	US-600A	Culligan	**29AH61**
Chlorine Taste and Odor, Cyst, Dirt, Lead, Methyl Tertiary Butyl Ether (MTBE), Rust, Volatile Organic Compounds (VOCs)	0.5 micron	0.6 gpm	625 gal	¼"	15¾"	10⅞"	No	125 psi	100 °F	5583101	3M Aqua-Pure	**5PR95**
Chlorine Taste and Odor, Cyst, Lead	0.2 micron	2.5 gpm	6,000 gal	⅜"	16"	4½"	No	125 psi	100 °F	5616318	3M Aqua-Pure	**35Z834**
Chlorine Taste and Odor, Cyst, Lead, Mercury, Particulates, Volatile Organic Compounds (VOCs)	0.5 micron	0.8 gpm	750 gal	¼"	12⅝"	3"	Yes	120 psi	100 °F	04-99535	3M	**56GW03**
Chlorine Taste and Odor, Cyst, Particulates, Sediment	0.5 micron	2 gpm	2,000 gal	⅜"	15⅛"	3¼"	Yes	125 psi	100 °F	5609223	3M Aqua-Pure	**5REE6**
Chlorine Taste and Odor, Dirt, Rust	5 micron	1.7 gpm	2,000 gal	⅜"	9⅞"	4⅞"	No	125 psi	100 °F	5528901	3M Aqua-Pure	**2P075**
Chlorine Taste and Odor, Sediment	3 micron	0.5 gpm	2,000 gal	¼"	11¾"	3"	No	100 psi	100 °F	WFQT130005	Dupont	**25CA78**
Cyst, Lead, Sediment	0.5 micron	0.8 gpm	750 gal	¼"	10½"	3"	Yes	125 psi	100 °F	AP EASY LC COOLER	3M Aqua-Pure	**1MZU8**

3M Aqua-Pure 5PT07

Dupont 25CA81

Reverse Osmosis Quick Connect Water Filters

These filters use a multistage process including prefilters and semi-permeable membranes to filter water for drinking and appliances. Replacement is fast and easy without a filter wrench.

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Filter Media	Item No.	Pkg. Qty.
3M Aqua-Pure								
Particulates	5 micron	0.6 gpm	2,500 gal	14⅜"	3¼"	Carbon	**5PT07**	2
Dupont								
Cadmium, Cyst, Nitrate/Nitrite, Particulates, Arsenic, Selenium, Total Dissolved Solids (TDS), Chromium (Trivalent)	0.025 micron	2 gpm	3,000 gal	13"	3"	Carbon	**25CA83**	1
Chlorine Taste and Odor	1 micron	2 gpm	3,000 gal	13"	3"	Carbon	**25CA81**	1

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Filter Media	Item No.
3M							
Scale, Sediment	5 micron	2 gpm	15,000 gal	22¼"	4"	Polypropylene	**40XA69**
3M Aqua-Pure							
Chlorine Taste and Odor, Scale, Sediment	5 micron	0.5 gpm	1,500 gal	8⅜"	2¼"	Carbon	**3P782**
Chlorine Taste and Odor, Sediment	5 micron	0.5 gpm	2,500 gal	10⅜"	2⅛"	Carbon	**1ZKK3**
Cyst, Sediment	0.5 micron	1.7 gpm	14,000 gal	11"	3¼"	Polypropylene	**49Y025**
Particulates	0.2 micron	2 gpm	9,000 gal	8⅛"	4½"	Polypropylene	**61HJ77**
Scale, Sediment	5 micron	1.5 gpm	10,000 gal	20"	3¼"	Polypropylene	**49Y023**
3M Water Filtration Products							
Cyst, Sediment	0.5 micron	1.5 gpm	9,000 gal	14⅜"	3⅜"	Polypropylene	**5PT01**
Scale	5 micron	3 gpm	20,000 gal	9¾"	3"	Carbon	**4NY65**
Scale, Sediment	1 micron	1.5 gpm	10,000 gal	12⅞"	3¼"	Polypropylene	**4NY64**
Sediment	1 micron	1.5 gpm	10,000 gal	12⅞"	3¼"	Polypropylene	**4NY63**
Culligan							
Chlorine Taste and Odor	—	0.5 gpm	2,500 gal	10½"	2¼"	Carbon	**29AH60**
Dupont							
Rust, Sediment	1 micron	0.5 gpm	4,000 gal	11"	4"	Carbon	**25CA87**
Follett Ice							
Bacteria, Particulates, Cyst	0.5 micron	0.5 gpm	3,000 gal	14⅞"	3⅛"	Carbon	**31MW56**
Biofilm	—		—	9⅞"		Carbon	**31MW73**
Hoshizaki							
Particulates, Dirt, Chlorine Taste and Odor, Rust	0.5 micron	1.7 gpm	21,000 gal	14½"	3¼"	Carbon	**31XC11**
Ice-O-Matic							
—	0.5 micron	1.5 gpm	—	12¾"	4"	—	**36RF14**
Chlorine Taste and Odor, Sediment	10 micron	0.5 gpm	Not Rated	2½"	2½"	Carbon	**36RF16**
	10 micron	0.5 gpm	Not Rated	4"	2½"	Carbon	**36RF15**
Manitowoc							
Scale	0.75 micron		14,000 gal	15¼"	6"	Carbon	**10L493**
	1 micron	1.5 gpm	20,000 gal	21⅜"	6"	Carbon	**10L494**
Scale, Sediment	1 micron	0.8 gpm	20,000 gal	13"	3"	Carbon	**10L491**
Sediment	5 micron	8 gpm	8,000 gal	17⅛"	6"	Wound Cotton	**10L492**
Nephros							
Cyst, Particulates	1 micron	1.5 gpm	9,000 gal	14"	3"	Carbon	**55AV23**
Pentair/Everpure							
Bacteria, Cyst, Scale, Sediment	0.5 micron	1.7 gpm	12,000 gal	25"	3¼"	Carbon, Agion, Polyphosphate	**53GK25**
Pentair/Pentek							
Chlorine Taste and Odor	5 micron	0.5 gpm	2,000 gal	10"	2"	Carbon	**1EDB1**
	5 micron	0.5 gpm	2,000 gal	10"	2"	Carbon	**1EDB2**
	5 micron	0.5 gpm	2,000 gal	10"	2"	Carbon	**1EDB3**
	5 micron	0.5 gpm	2,000 gal	10"	2"	Carbon	**1EDB4**
	20	0.8 gpm	2,500 gal	10"	2"	Carbon	**4PAX1**
Rust, Sediment	5 micron	1 gpm	Not Rated	10"	2"	Resin	**1EDA6**
	5 micron	1 gpm	Not Rated	10"	2"	Resin	**1EDA7**
	5 micron	1 gpm	Not Rated	10"	2"	Resin	**1EDA9**
Sediment	5 micron	1 gpm	Not Rated	10"	2"	Resin	**1EDA8**
Scotsman							
Chlorine Taste and Odor, Scale	5 micron	2 gpm	15,000 gal	15"	3¼"	—	**36P009**
Scale	0.5 micron	1.7 gpm	9,000 gal	20"	4"	—	**36P056**
Selecto							
Lead	5 micron	0.5 gpm	500 gal	10"	2¼"	—	**2P816**

3M 40XA69

3M Aqua-Pure 3P782

Follett Ice 31MW56

Hoshizaki 31XC11

Ice Machine Water Filters

Filters improve water quality to produce purer ice cubes. They reduce contaminants and improve the longevity of commercial ice machines in restaurants, hotels, and offices.

Refrigerator Water Filters

These filters install inline to reduce contaminants and improve water quality. They provide ongoing filtration to deliver clean, better tasting water in residential and commercial kitchens.

Reduces	Flow Rate	Service Life	Overall Height	Filter Media	Item No.
Electrolux					
Bisphenol A (BPA), Chloramine	0.5 gpm	—	9¾"	Carbon	**33UK04**
Frigidaire					
Asbestos, Bisphenol A (BPA), Cyst, Insecticides, Lead, Mercury, Particulates, Pesticides, Pharmaceuticals	0.5 gpm	200 gal	—	Carbon	**28YR08**
GE					
Cyst, Lead, Pharmaceuticals	0.5 gpm	300 gal	—	Carbon	**28YR62**
Whirlpool					
Chlorine Taste and Odor	—	—	8"	—	**42EG77**
	—	—	7½"	—	**42EG74**
	—	—	13½"	—	**42EG76**

GE 28YR62

Whirlpool 42EG74

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Filter Media	Maximum Temperature	Item No.
Hot Water & Steam Filters								
3M								
Cyst, Scale, Sediment	0.5 micron	1.5 gpm	9,000 gal	16½"	4"	Polypropylene	100 °F	**54EK05**
Scale, Sediment	5 micron	1.5 gpm	Not Available	15"	3⅜"	Carbon	100 °F	**54EK07**
3M Water Filtration Products								
Cyst, Scale, Sediment	0.5 micron	1.5 gpm	9,000 gal	14⅜"	3⅜"	Polypropylene	100 °F	**5PT02**
	0.5 micron	1.7 gpm	14,000 gal	18⅝"	3⅜"	Polypropylene	100 °F	**4DY61**
Scale, Sediment	1 micron	1.5 gpm	10,000 gal	14⅜"	3⅜"	Polypropylene	100 °F	**5PT04**
	1 micron	1.7 gpm	12,600 gal	18⅝"	3⅜"	Polypropylene	100 °F	**4DY57**
	5 micron	1.7 gpm	5,500 gal	18⅝"	3⅜"	Polypropylene	100 °F	**4DY59**
Sediment	1 micron	1.7 gpm	12,600 gal	18⅝"	3⅜"	Polypropylene	100 °F	**4DY56**
	5 micron	1.5 gpm	4,800 gal	14⅜"	3⅜"	Polypropylene	100 °F	**5PT05**
	5 micron	1.5 gpm	4,800 gal	14⅜"	3⅜"	Polypropylene	100 °F	**5PT06**
Pentair/Everpure								
Bacteria, Cyst, Scale, Sediment	0.5 micron	1.7 gpm	9,000 gal	20¾"	3¼"	Carbon, Polyphosphate	100 °F	**53GK29**
Scale	—	2 gpm	—	10"	1⅜"	HydroBlend Polyphosphate	150 °F	**5WFG0**
Scale, Sediment	5 micron	1.7 gpm	6,000 gal	14½"	3¼"	Carbon, Polyphosphate	100 °F	**53GK30**
Beverage Machine Water Filters								
3M Water Filtration Products								
Cyst, Scale, Sediment	0.5 micron	1.5 gpm	9,000 gal	17"	3¼"	Carbon	100 °F	**1RWK6**
Cyst, Sediment	0.5 micron	1.5 gpm	9,000 gal	17"	3¼"	Carbon	100 °F	**1RWK4**
Scale, Sediment	5 micron	1.5 gpm	4,800 gal	13"	3¼"	Carbon	100 °F	**1RWK5**
Sediment	5 micron	1.5 gpm	4,800 gal	18"	3¼"	Carbon	100 °F	**1RWK7**
Pentair/Everpure								
Bacteria, Cyst, Sediment	0.5 micron	1.7 gpm	9,000 gal	20¾"	3¼"	Carbon, Agion	100 °F	**53GK26**
Chlorine Taste and Odor, Scale, Sediment	5 micron	1.7 gpm	6,000 gal	9¾"	—	Carbon, Polyphosphate	100 °F	**34D337**
	5 micron	3.3 gpm	12,000 gal	20"	—	Carbon, Polyphosphate	100 °F	**34D338**
Cyst, Chlorine Taste and Odor	0.5 micron	1.7 gpm	9,000 gal	21"	3"	Carbon, Agion	100 °F	**5WFE9**
Cyst, Scale, Sediment	0.5 micron	1.7 gpm	10,000 gal	9¾"	2⅞"	Carbon, Polyphosphate	100 °F	**53GK21**
Sediment	5 micron	3.3 gpm	12,000 gal	20"	2⅞"	Carbon	100 °F	**53GK20**
	10 micron	8 gpm	—	9¾"	—	Polypropylene	80 °F	**5WFG1**

Hot Water & Steam 53GK30

Beverage Machine 53GK26

Hot Water & Steam & Beverage Machine Water Filters

Filters improve water quality and extend the service life of equipment in commercial kitchens, restaurants, and coffee shops.

Hot Water and Steam Filters withstand hot water and steam to reduce contaminants in coffee, espresso, tea, and steam equipment.

Beverage Machine Water Filters maintain better tasting cold beverages.

Elkay 11U265

Bottle Filler Water Filters

- Carbon filter media
- Flow rate: 1.5 gpm

Bottle filling stations use these water filters to remove contaminants and improve the quality of drinking water with no unpleasant smell or taste.

Reduces	Removes Particle Size Down To	Service Life	Overall Height	Dia.	Item No.	Pkg. Qty.
Elkay						
Chlorine Taste and Odor, Cyst, Lead, Particulates, Rust, Sediment	—	1,500 gal	9½"	3¼"	**2XJ47**	1
Chlorine Taste and Odor, Cyst, Lead, Particulates, Sediment	—	3,000 gal	10¼"	3¼"	**56FK57**	12
	—	3,000 gal	9½"	3¼"	**11U265**	1
Chlorine Taste and Odor, Particulates	Less than 1 micron	6,000 gal	12"	3½"	**437T24**	2
Halsey Taylor						
Chlorine Taste and Odor, Lead, Particulates, Sediment	—	1,500 gal	12½"	3¼"	**5WMU5**	1
	—	3,000 gal	12½"	3¼"	**34J832**	1

54EJ76

Reverse Osmosis Appliance Water Filters

Reverse osmosis uses a multistage process including prefilters and semi-permeable membranes to filter water for drinking and appliances. Most bottled water is processed using reverse osmosis.

Reduces	Micron Rating	Flow Rate (gpm)	Service Life	Overall Height	Dia.	Filter Media	Item No.
Arsenic, Barium, Cadmium, Chromium, Copper, Fluoride, Chlorine Taste and Odor, Cyst, Particulates, Radium, Selenium, Total Dissolved Solids (TDS)	5	0.5	Not Available	12"	3¼"	Polypropylene	**54EJ71**
Arsenic, Barium, Cadmium, Chromium, Copper, Fluoride, Chlorine Taste and Odor, Cyst, Radium, Selenium, Total Dissolved Solids (TDS)	5	0.5	1,000 gal	12"	3¼"	Carbon	**54EJ67**
Arsenic, Barium, Cadmium, Chromium, Copper, Fluoride, Chlorine Taste and Odor, Particulates, Radium, Selenium, Total Dissolved Solids (TDS)	5	0.5	Not Available	12"	3¼"	Carbon	**54EJ70**
Chloramine	5	1	7,000 gal	22"	4⅞"	Carbon	**54EJ76**
Particulates	—		Not Available	18"	10⅝"	Polypropylene	**54EK53**
Total Dissolved Solids (TDS)	—	100	100 gal	12"	3¼"	Carbon	**54EJ77**
	—	150	150 gal	12"	3¼"	Polypropylene	**54EJ69**

Nephros 55AV04

Shower Water Filters

Water filters for shower heads install inline to fit existing showers. These filters reduce contaminants and improve water quality in healthcare facilities.

Reduces	Micron Rating	Flow Rate	Service Life	Overall Height	Dia.	Connec. Type	Item No.
Nephros							
Bacteria, Endotoxin, Viruses	0.005 micron	3 gpm	Not Rated	7"	2½"	NPSM	**55AV03**
	0.005 micron	3 gpm	Not Rated	13"	2½"	NPSM	**55AV05**
	0.005 micron	3 gpm	Not Rated	7"	2½"	Quick Connect	**55AV02**
	0.005 micron	3 gpm	Not Rated	13"	2½"	Quick Connect	**55AV04**
Bacteria, Viruses	0.1 micron	3 gpm	Not Rated	10"	3"	NPSM	**55AV01**
	0.1 micron	3 gpm	Not Rated	4"	3"	Quick Connect	**55AU98** *
	0.1 micron	3 gpm	Not Rated	4"	3"	Quick Connect	**55AU99** †
Safe Water Products							
Bacteria	0.15 micron	1.5 gpm	1,320 gal	9¼"	1⅜"	BSP	**421W92**
	0.2 micron	1.5 gpm	1,320 gal	5"	1⅜"	BSP	**421W94**
	0.2 micron	1.5 gpm	1,320 gal	5⅛"	1⅜"	BSP	**421W93**

** Sink spout filter. † Sink and shower spray filter.*

40XA67

3M 40XA69

Appliance Water Filter Head, Series 3M VH3

- Max. pressure: 125 psi
- Max. temp.: 100°F
- Filters: 5 micron rating

Head allows the operator to adjust the level of filtration to accommodate various types of products for custom water quality control. It works in food service and vending applications including ice machines, fountain beverage dispensers, coffee and espresso machines, hot drink vending machines, and steam cookers.

Compatible with Grainger Part Number	Connec. Size	Connec. Type	Overall Height	Overall Width	Mfr. Model	Item No.
Appliance Water Filter Heads						
40XA65, 40XA66, 40XA68	⅜ in	FNPT	7 in	4 ½ in	6213001	**40XA67**

Reduces	Flow Rate	Service Life	Overall Height	Dia.	Item No.
Ice Machine Water Filters					
Scale, Sediment	2 gpm	15,000 gal	22¼"	4"	**40XA69**
	3.5 gpm	25,000 gal	14⅝"	4½"	**40XA68**
	5 gpm	35,000 gal	17⅝"	4½"	**40XA66**
	7 gpm	5,000 gal	20½"	4½"	**40XA65**

Beverage Machine 54EK02

Ice Machine 23NY88

Beverage Machine & Ice Machine Filtration Systems

- Max. pressure: 125 psi
- Max. temp.: 100°F

Effective, easy-to-install solutions that meet the volume, water clarity, and maintenance expectations in most food service applications. NSF certified. Filtration systems install new or replace existing filtration systems.

Beverage Machine Filtration Systems—Eliminate contaminants and improve water quality.

Ice Machine Filtration Systems—Reduce contaminants and improve water quality to produce purer ice cubes.

Reduces	Micron Rating (micron)	Flow Rate (gpm)	Service Life (gal.)	Connec. Size	Includes Valve	Overall Height	W	Number of Cartridges Required (Sold Separately)	Mfr. Model	Filtration System Item No.	Cartridge Item No.
Beverage Machine Filtration Systems											
Chlorine Taste and Odor, Cyst, Particulates	0.5	1.7	14,000	⅜"	Yes	21¼"	4½"	1	5616101	**54EK02**	**54EK03**
Bacteria, Chlorine Taste and Odor, Cyst, Sediment	0.2	2.5	25,000	⅜"	Yes	14⅞"	5⅛"	1	5616201	**54EK01**	**54EJ72**
	0.2	3.3	35,000	½"	Yes	17⅝"	5"	1	5616301	**54EK14**	**54EK15**
	0.2	5	54,000	½"	No	23⅝"	5"	1	5616401	**54EK25**	**54EK26**
Chlorine Taste and Odor, Sediment	3	3.3	35,000	½"	Yes	17⅝"	5"	1	BEV165	**54EK20**	**54EK21**
	3	5	54,000	½"	No	23⅝"	5"	1	BEV195	**54EK27**	**54EK28**
Ice Machine Filtration Systems											
Chlorine Taste and Odor, Cyst, Scale, Sediment	0.5	1.5	9,000	⅜"	Yes	17"	4½"	1	5616003	**23NY88**	**23NY98**
Bacteria, Chlorine Taste and Odor, Cyst, Scale, Sediment	0.2	2.5	25,000	⅜"	Yes	14⅞"	5⅛"	1	5616203	**23NY90**	**23NZ01**
Bacteria, Chlorine Taste and Odor, Cyst	0.2	3.3	35,000	½"	Yes	17⅝"	5"	1	5616303	**23NY92**	**23NZ03**
Bacteria, Chlorine Taste and Odor, Cyst, Sediment	0.2	5	54,000	½"	Yes	23⅝"	5"	1	5616403	**23NY94**	**23NZ05**
Bacteria, Chlorine Taste and Odor, Cyst, Scale, Sediment	0.2	6.7	70,000	¾"	Yes	18⅛"	5⅜"	2	5624503	**23NY96**	**23NZ03**
Chlorine Taste and Odor, Sediment	1	1.5	10,000	⅜"	Yes	17"	4½"	1	5616004	**23NY89**	**23NY99**
	3	2.1	25,000	⅜"	Yes	14⅞"	5⅛"	1	5616204	**23NY91**	**23NZ02**
	3	3.3	35,000	½"	Yes	17⅝"	5"	1	5616304	**23NY93**	**23NZ04**
	3	5	54,000	½"	Yes	23⅝"	5"	1	5616404	**23NY95**	**23NZ06**
Bacteria, Chlorine Taste and Odor, Cyst	3	6.7	70,000	¾"	Yes	18⅛"	5⅜"	2	5624504	**23NY97**	**23NZ04**

PENTAIR

Complete Appliance Water Filtration Systems

All systems and replacement cartridges are certified for use in potable water applications.

Coldrink 2-MC² System, 6XWU0—Improves the taste of fountain beverages and helps retain the beverage's carbonation. Micro-Pure II media helps inhibit bacteria growth. Protects beverage system seals, pump, tubing, and small orifices from abrasive wear, clogging, and corrosion.

QL3-BH2 Coffee Filter, 6XWU1—Provides premium quality filtered water for coffee and beverage applications. Reduces scale buildup and prevents lime scale from forming in brewers. Micro-Pure II media helps inhibit bacteria growth.

Kleensteam II Single System, 5WFG5 & Twin System, 6XWU2—Systems deliver high-quality filtered water for steam applications, and have scale inhibitors and deliming capabilities. Cartridge design is suitable for low- or high-flow capacity steamers. Improve the performance and help extend the life of steam equipment.

Kleenware HTS-11 System, 5WFH4—Inhibits mineral deposits and provides corrosion protection. Helps extend the life of food service equipment. Suitable for use in commercial glassware washers, dishwashers, and warewashing booster heaters.

SR-X Scale Inhibitor Feeder and Deliming System, 5WFH3—Provides scale reduction for steam applications as well as deliming capabilities. Include clear SR-X housing, SS-10 cartridge, dip tube assembly, and 2.2-lb. package of ScaleKleen for scale removal and deliming.

E10 Coarse, 5WFH1 and 5WFH2—Prefilter cartridges feature tightly spun media.

Insurice Filtration Systems, 5WFG3 and 5WFG4—Reduce problems in ice machines caused by scale buildup from dirt and dissolved minerals. 5WFG4 features a water shutoff, flushing valve, and outlet pressure gauge.

Insurice Single PF-i2000, 6XWT9—Filter system reduces scale buildup from dissolved minerals and dirt, and helps reduce clogging of distribution lines, evaporator plate, and pump. Micro-Pure II media help inhibit bacteria growth.

QC7i Filter Head Assembly 5WFG6 and 5WFG8—Include a built-in water shutoff valve, pressure gauge, and mounting hardware. Accept many Everpure specialty cartridges including cartridges for ice, coffee, espresso, and fountain beverage machines.

ScaleKleen Scale Remover/Delimer, 5WFH0—Can be fed into the water system without the use of hazardous chemicals or special piping.

Replacement Filter Cartridges
- Max. pressure: 125 psi

Ice Machine
6XWT9

Appliance Water Filter Head
5WFG6

Micron Rating (micron)	Description	Reduces	Flow Rate (gpm)	Service Life (gal.)	Connec. Size	Includes Valve	Overall Height	W	Number of Cartridges Required	Max. Press. (psi)	Max. Temp.	Std.	Mfr. Model	Item No.
Beverage Machine Filtration Systems														
0.5	Coldrink 2-MC² System	Bacteria, Chlorine Taste and Odor, Cyst, Scale, Sediment	3.3	18,000	¾"	Yes	25½"	21½"	3	125	100 °F	NSF 42, NSF 53	EV932802-75	**6XWU0**
Hot Water & Steam Filtration Systems														
0.5	QL3-BH2 Coffee Filter	Bacteria, Chlorine Taste and Odor, Cyst, Scale, Sediment	0.5	3,000	¼"	Yes	16½"	3¾"	1	125	100 °F	NSF 42, NSF 53	EV927200-75	**6XWU1**
5	KleenSteam II Single System	Chlorine Taste and Odor, Scale, Sediment	2.5	10,000	¾"	Yes	25½"	5"	2	125	100 °F	NSF 42	EV979721-75	**5WFG5**
5	Kleensteam II Twin System		5	20,000	¾"	Yes	25½"	20½"	3	125	100 °F	NSF 42	EV979722-75	**6XWU2**
—	Kleenware HTS-11 Scale Control Hot Water System	Scale	15	—	¾"	No	12½"	4¾"	1	200	200 °F	NSF 60	EV979911-75	**5WFH4**
—	SR-X Scale Inhibitor Feeder and Deliming System		6	—	¾"	No	12½"	5¼"	3	125	125 °F	NSF 42	EV979720-75	**5WFH3**
10	E10 10" Coarse Prefilter Cartridge	Sediment	4	9,000	¾"	No	12½"	5¼"	1	125	100 °F	NSF 42	EV979580-75	**5WFH1**
10	E10 20" Coarse Prefilter Cartridge		8	9,000	¾"	No	22½"	5½"	1	125	100 °F	NSF 42	EV979590-75	**5WFH2**
Ice Machine Filtration Systems														
0.5	Insurice 2000 Single System	Bacteria, Chlorine Taste and Odor, Cyst, Scale, Sediment	1.7	9,000	⅜"	Yes	26¼"	16½"	1	125	100 °F	NSF 42, NSF 53	EV932401-75	**5WFG3**
0.5	Insurice 2000 Twin System		3.3	18,000	¾"	Yes	25¼"	20½"	2	125	100 °F	NSF 42, NSF 53	EV932402-75	**5WFG4**
0.5	Insurice Single PF-i2000		1.7	9,000	¾"	Yes	28"	20"	2	125	100 °F	NSF 42, NSF 53	EV932421-75	**6XWT9**

Connec. Size	Connec. Type	Overall Height	Overall Width	Std.	Max. Pressure	Max. Temp.	Mfr. Model	Item No.
Appliance Water Filter Heads								
QC7i Single Filter Head								
⅜ in	FNPT	7 ⅝ in	5 ¼ in	NSF 42	125 psi	100 °F	EV927241-75	**5WFG6**
QC7i Twin Parallel Head								
¾ in	MNPT	8 ½ in	5 ½ in	NSF 42	125 psi	1,000 °F	EV927222-75	**5WFG8**

Item	Size	Function	For Use With	Mfr. Model	Item No.
Scale Remover/Delimer					
Scale Kleen	2 lb 3 oz	Reduces Scale	EV9797-20, Mfr. No. EV9797-21	EV979835-75	**5WFH0**

Micron Rating (micron)	Description	Reduces	Flow Rate (gpm)	Service Life (gal.)	Overall Height	Dia.	Max. Temp.	For Use With	Std.	Mfr. Model	Item No.
Beverage Machine Water Filters											
0.5	4C Replacement Cartridge	Cyst, Chlorine Taste and Odor	0.5	3,000	14¾"	3"	100 °F	Drinking Water Systems	NSF 42, NSF 53	EV960100-75	**5WFF7**
0.5	AC Replacement Cartridge		0.5	750	10½"	3"	100 °F	Drinking Water Systems	NSF 42, NSF 53	EV960112-75	**5WFF8**
0.5	MC2 Replacement Cartridge		1.7	9,000	21"	3"	100 °F	Filtration System	NSF 42, NSF 53	EV961255-75	**5WFE9**
0.5	XC2 Replacement Cartridge		1.7	12,000	25¼"	3"	100 °F	Fountain Beverage Systems	NSF 42, NSF 53	EV961397-75	**5WFF3**
1	ECP1 10" Prefilter Cartridge	Sediment	10	—	9¾"	—	125 °F	Mfr. No. EV9795-80	NSF 42	255481-43-75	**5WFH8**
10	EC110 10" Prefilter Cartridge		8	—	9¾"	—	80 °F	Mfr. No. EV9795-80	NSF 42	EV953440-75	**5WFG1**
10	EC210 20" Prefilter Cartridge		8	—	20⅛"	—	80 °F	Plastic Prefilter System	NSF 42	EV953420-75	**5WFG2**
Hot Water & Steam Filters											
0.5	4H Replacement Cartridge	Cyst, Sediment	0.5	3,000	14½"	3¼"	100 °F	Filtration System	NSF 42, NSF 53	EV961100-75	**53GK23**
0.5	BH2 Replacement Cartridge	Chlorine Taste and Odor, Scale	0.5	3,000	14¾"	3"	100 °F	Filtration System	NSF 42, NSF 53	EV961251-75	**5WFF1**
0.5	MH2 Replacement Cartridge	Cyst, Chlorine Taste and Odor, Scale	1.7	9,000	21"	3"	100 °F	Coffee Filtration Systems	NSF 42, NSF 53	EV961326-75	**5WFF4**
0.5	OCS² Replacement Cartridge	Scale	0.5	1,500	3"	3"	100 °F	Coffee Equipment	NSF 42, NSF 53	EV961807-75	**6TFD6**
5	4CB5 Replacement Cartridge	—	1.7	6,000	3"	3"	100 °F	Filtration System	NSF 42	EV961716-75	**6TFD4**
5	4CB5S Replacement Cartridge	Scale	1.7	6,000	12¾"	3"	100 °F	Ice Filtration Systems	NSF 42	EV961726-75	**6TFD5**
5	7CB5 Replacement Cartridge	Chlorine Taste and Odor	2.5	10,000	21"	3"	100 °F	Steam Treatment Systems	NSF 42	EV961816-75	**5WFF2**
5	Claris XL Replacement Cartridge		1	1,900	18⅝"	5⅜"	86 °F	Filtration System	NSF 42	EV433913-75	**34D334**
5	Claris XXL Replacement Cartridge		1	3,490	18⅝"	6⅞"	86 °F	Filtration System	NSF 42	EV433914-75	**34D335**
5	ESO 7 Replacement Cartridge	Chlorine Taste and Odor, Scale	0.5	9,000	21"	3"	100 °F	Filtration System	NSF 42, NSF 53	EV960725-75	**5WFG7**
—	7SO Replacement Cartridge	Scale	0.5	2,000	20¾"	3¼"	100 °F	Water Filtration Systems	—	EV960704-75	**53GK22**
—	HT-10 Replacement Cartridge		15	60,000	9¾"	2½"	150 °F	Ware Washers	NSF 42	EV979922-75	**5WFH5**
—	SS-10 Replacement Cartridge		2	—	10"	1⅜"	150 °F	Steam Treatment Systems	NSF 42, NSF 53	EV979902-75	**5WFG0**
Ice Machine Water Filters											
0.5	4SI Replacement Cartridge	Scale	2	15,000	14½"	3¼"	100 °F	Filtration System	NSF 42, NSF 53	EV960651-75	**32UL49**
0.5	7SI Replacement Cartridge		3.5	25,000	20¾"	3"	100 °F	Filtration System	NSF 42, NSF 53	EV960601-75	**32UL48**
0.5	I20002 Replacement Cartridge	Cyst, Chlorine Taste and Odor, Scale	1.7	9,000	21"	3"	100 °F	Ice Filtration Systems	NSF 42, NSF 53	EV961227-75	**5WFE8**
0.5	I40002 Replacement Cartridge	Chlorine Taste and Odor, Scale	1.7	12,000	25¼"	3"	100 °F	Filtration System	NSF 42, NSF 53	EV961237-75	**5WFF0**
0.5	OW200L Replacement Cartridge	Scale, Trihalomethanes (TTHM)	0.5	480	3.25"	3.25"	100 °F	Filtration System	NSF 42, NSF 53	EV961906-75	**6TFD7**
0.5	SR-X Feeder, 6 gpm, 12 ½ inH, 5 ⁵⁄₃₂ in Dia.	Scale	6	500	12½"	5⅛"	100 °F	Steam Treatment Systems	NSF 42	EV979845-75	**53GK34**
—	SS-IMF Replacement Cartridge		2	—	8½"	1⅜"	150 °F	Combination Systems	NSF 42	EV979932-75	**5WFF9**

54EK04

1RWJ7

Hot Water & Steam Filtration Systems

3M

- Max. pressure: 125 psi
- Max. temp.: 100°F
- NPT connection

Systems operate with 2 separate streams exiting the manifold, with 1 stream adding a scale inhibitor from a dedicated cartridge, the second stream supplies cold beverage dispensers and includes no added scale inhibitor. Carbon filter media. All systems are NSF Certified.

Reduces	Micron Rating (micron)	Flow Rate (gpm)	Service Life (gal.)	Connec. Size	Overall Height	W	Mfr. Model	Brand	Filtration System Item No.	Repl. Cart. Item No.
Bacteria, Chlorine Taste and Odor, Cyst, Sediment	0.2	5	54,000	¾"	24⅛"	5½"	5624301	3M	**54EK29**	**54EK30**
		5	70,000	¾"	18"	5½"	5625501	3M	**54EK33**	**54EK34**
		10	108,000	¾"	24⅛"	5½"	5624201	3M	**54EK31**	**54EK32**
		15	162,000	¾"	24⅛"	5½"	5624102	3M	**54EK37**	**54EK38**
Chlorine Taste and Odor, Cyst, Scale, Sediment	0.5	1.5	9,000	⅜"	15½"	4½"	5616001	3M	**54EK04**	**54EK05**
Chlorine Taste and Odor, Dirt, Scale, Sediment	1	1.5	10,000	⅜"	14⅛"	5"	5581906	3M Water Filtration Products	**1RWJ7**	**4NY64**

54EJ75

Reverse Osmosis Appliance Water Filtration Systems

3M

- Max. pressure: 125 psi
- Max. temp.: 100°F

Reverse osmosis filtration systems use a multistage process including prefilters and semi-permeable membranes to remove contaminants in water. RO water filtration systems install new or replace existing RO systems. These systems include filter heads, filter housings, filters, installation kits, and additional accessories.

Reduces	Flow Rate	Daily Output	Max. Pressure	Overall Height	Item No.
Chloramine, Chlorine Taste and Odor, Sediment, Total Dissolved Solids (TDS)	200 gpm	200 gpd	125 psi	22½"	**54EJ75**
Chlorine Taste and Odor, Sediment, Total Dissolved Solids (TDS)	280 gpm	300 gpd	125 psi	15⅞"	**54EK51**
Total Dissolved Solids (TDS)	930 gpm	1,000 gpd	125 psi	34"	**54EK10**

4BA68

4BA69

PENTAIR 3M Aqua-Pure™

Water Filtration Accessories

Additional O-rings, bag filter magnets, and strainer baskets are available on Grainger.com.

Item	For Use With	Brand	Item No.
Mounting Brackets			
Mounting Bracket Kit	½ in and ⅜ in Polypropylene Housing	Pentair/Pentek	**4BB49**
	¾ in Polypropylene Housing	Pentair/Pentek	**4BA69**
	¾ in Polypropylene Housing	Pentair/Pentek	**4BA84**
	BB Polypropylene Housing	Pentair/Pentek	**3ANY8**
O-Ring for 3M Housings			
O-Ring	1ZKK6, 1ZKK7, 1ZKK8, 2P518, 2P520	3M Aqua-Pure	**5REF6**
Spanner Wrenches			
Housing Wrench	½ in Polypropylene Housing	Pentair/Pentek	**4BA71**
	¾ in Polypropylene Housing	Pentair/Pentek	**4BA72**
	10 in BB Housing	Pentair/Pentek	**4BA73**
	20 in BB Housing	Pentair/Pentek	**4BA68**

4BU19

PENTAIR
PENTEK Pentair Water

Felt Sewn Seam Filter Bags

- Max. pressure: 200 psi

Multiple-layer bags have a composite construction of microfiber, felt, and spun-bonded materials to hold 3 to 4 times more dirt than standard bags. All-sewn construction. For use with oxidizing agents, organic solvents, petroleum and vegetable oils, organic and mineral acids.

Bag Size	Flow Rate	Collar Type	Pkg. Qty.	Micron Rating 1 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	75 Item No.	100 Item No.	800 Item No.
Polyester Material											
Galvanized Carbon Steel Ring, Max. Temp.: 250 °F											
1	55 gpm	Handle and Ring	20	—	**4BB64**	**4BB66**	**4BB68**	**4BB70**	—	**4BB72**	—
2	120 gpm	Handle and Ring	20	—	**4BE10**	**4BE12**	**4BE14**	**4BE16**	—	**4BE18**	—
4	30 gpm	Handle and Ring	20	—	**4BE57**	**4BE59**	**4BE61**	**4BE63**	—	**4BE65**	—
12	190 gpm	Handle and Ring	20	—	—	—	—	—	—	**1YBJ4**	**1YBK1**
Stainless Steel Ring, Max. Temp.: 250 °F											
1	40 gpm	Handle and Ring	10	**4BE88**	—	—	—	—	—	—	—
1	40 gpm	Ring	10	—	**4BE90**	—	**4BE92**	**4BE93**	**4BE94**	**4BU13**	—
2	80 gpm	Ring	5	**4BU14**	**4BU16**	**4BU17**	**4BU18**	**4BU19**	**4BU20**	**4BU21**	—
4	20 gpm	Ring	20	**4BU31**	—	—	—	—	—	—	—
4	25 gpm	Ring	20	—	**4BU33**	**4BU34**	**4BU35**	**4BU36**	**4BU37**	**4BU38**	—
Polypropylene Material											
Galvanized Carbon Steel Ring, Max. Temp.: 200 °F											
1	55 gpm	Handle and Ring	20	—	**4BB74**	**4BB76**	**4BB78**	**4BB80**	**1YBE7**	**4BB82**	—
2	120 gpm	Handle and Ring	20	—	**4BE20**	**4BE22**	**4BE24**	**4BE26**	—	**4BE28**	—
4	30 gpm	Handle and Ring	20	—	**4BE67**	**4BE68**	**4BE69**	**4BE70**	**1YBF1**	**4BE71**	—
Polypropylene Felt/Galvanized Carbon Steel Ring, Max. Temp.: 200 °F											
3	15 gpm	Handle and Ring	20	—	—	—	—	—	**1YBF8**	—	—
Stainless Steel Ring, Max. Temp.: 200 °F											
1	40 gpm	Handle and Ring	10	**4BE80**	**4BE82**	**4BE83**	**4BE84**	**4BE85**	**4BE86**	**4BE87**	—
2	80 gpm	Ring	5	**4BE95**	**4BE97**	**4BE98**	**4BE99**	**4BU10**	**4BU11**	**4BU12**	—
4	20 gpm	Ring	20	**4BU23**	—	—	—	—	—	—	—
4	25 gpm	Ring	20	—	**4BU25**	**4BU26**	—	**4BU28**	**4BU29**	**4BU30**	—

1YBN5

Mesh Sewn Seam Filter Bags

PENTAIR
PENTEK Pentair Water

- Handle and ring collar
- Pkg. of 20

Filter bags filter liquids in paint processing, food and beverage production, and water treatment.

Bag Size	Flow Rate	Max. Pressure	Micron Rating 75 Item No.	100 Item No.	150 Item No.	200 Item No.	250 Item No.	300 Item No.	400 Item No.	600 Item No.	800 Item No.
Nylon Material											
Galvanized Carbon Steel Ring, Max. Temp.: 250 °F											
1	60 gpm	200 psi	—	—	—	—	—	—	—	—	**4BB98**
1	70 gpm	200 psi	—	**4BB84**	**4BB86**	**4BB88**	**4BB90**	**4BB92**	**4BB94**	**4BB96**	—
1	70 gpm	250 psi	**1YBN5**	—	—	—	—	—	—	—	—
2	150 gpm	250 psi	**1YBN6**	—	—	—	—	—	—	—	—
2	150 gpm	200 psi	—	**4BE30**	**4BE32**	**4BE34**	**4BE36**	**4BE38**	**4BE40**	**4BE42**	**4BE44**
3	20 gpm	250 psi	**1YBL4**	**1YBL5**	**1YBL6**	**1YBL7**	**1YBL8**	**1YBL9**	**1YBN1**	**1YBN2**	**1YBN3**
4	35 gpm	200 psi	—	**4BE72**	**4BE73**	**4BE74**	**4BE75**	**4BE76**	**4BE77**	**4BE78**	**4BE79**
4	35 gpm	250 psi	**1YBN4**	—	—	—	—	—	—	—	—
12	190 gpm	250 psi	**1YBK3**	**1YBK4**	—	**1YBK5**	—	**1YBK6**	**1YBK7**	**1YBK9**	**1YBL1**

Bag Size	Flow Rate	Max. Pressure	Collar Type	Brand	Pkg. Qty.	Micron Rating 1 Item No.	5 Item No.	10 Item No.	25 Item No.	50 Item No.	75 Item No.	100 Item No.	200 Item No.
Polyester Material													
Galvanized Carbon Steel Ring, Max. Temp.: 250 °F													
1	55 gpm	250 psi	Handle and Ring	Pentair/Pentek	20	**1YBC7**	—	—	—	—	**1YBC8**	—	**1YBC9**
2	120 gpm	250 psi	Handle and Ring	Pentair/Pentek	20	**1YBC4**	—	—	—	—	**1YBC5**	—	**1YBC6**
3	15 gpm	250 psi	Handle and Ring	Pentair/Pentek	20	**1YBD4**	**1YBD5**	**1YBD6**	**1YBD7**	**1YBD8**	**1YBD9**	**1YBE1**	**1YBE2**
4	30 gpm	250 psi	Handle and Ring	Pentair/Pentek	20	**1YBD1**	—	—	—	—	**1YBD2**	—	**1YBD3**
12	150 gpm	250 psi	Handle and Ring	Pentair/Pentek	20	**1YBG6**	**1YBG7**	**1YBG8**	**1YBG9**	**1YBH1**	—	**1YBH3**	**1YBH4**
Plastic Ring, Max. Temp.: 275 °F													
1	80 gpm	70 psi	Ring	Parker	10	—	**4NVD9**	**4NVE1**	**4NVE2**	—	—	—	—
2	160 gpm	70 psi	Ring	Parker	10	—	**4NVE7**	**4NVE8**	**4NVE9**	**4NVF1**	—	**4NVF2**	**4NVF3**
Polypropylene Ring, Max. Temp.: 275 °F													
1	80 gpm	70 psi	Ring	Parker	10	—	—	—	—	—	—	**4NVE4**	—
2	160 gpm	70 psi	Ring	Parker	10	**4NVE6**	—	—	—	—	—	—	—
Polypropylene Material													
Galvanized Carbon Steel Ring, Max. Temp.: 200 °F													
1	55 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	**1YBE6**	—	—	—	—	—	—	**1YBE8**
2	120 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	**1YBE3**	—	—	—	—	**1YBE4**	—	**1YBE5**
3	15 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	**1YBF3**	**1YBF4**	**1YBF5**	**1YBF6**	**1YBF7**	—	**1YBF9**	**1YBG1**
12	150 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	**1YBH5**	**1YBH6**	**1YBH7**	**1YBH8**	**1YBH9**	**1YBJ1**	**1YBJ2**	**1YBJ3**
Plastic Ring, Max. Temp.: 200 °F													
1	80 gpm	70 psi	Ring	Parker	10	—	**4NVF5**	**4NVF6**	**4NVF7**	—	—	**4NVF9**	—
2	160 gpm	70 psi	Ring	Parker	10	—	**4NVG2**	**4NVG3**	**4NVG4**	—	—	**4NVG6**	—
Polypropylene Ring, Max. Temp.: 200 °F													
410	20 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	—	**4BA98**	**4BB10**	**4BB12**	—	—	**4BB16**	—
420	40 gpm	200 psi	Handle and Ring	Pentair/Pentek	20	—	**4BA99**	**4BB11**	**4BB13**	—	—	**4BB17**	—

1YBC7

Felt Seamless Filter Bags

Single-layer bags are ideal for high flow rates. Handle and ring sewn in at top allow easy filter changes. Welded seams. Glazed finish for low fiber migration, good depth filtration, and good solids-holding capacity. For use with alkalies, organic solvents, petroleum and vegetable oils, organic and mineral acids.

Drop-In Solid Filter Cartridges

- Max. pressure: 125 psi

Polypropylene cartridges capture and remove solid contaminants from water and industrial liquids. These one-piece, depth-type filters trap particulates throughout the filter structure. They fit compatible housings to provide filtration for process water, plating solutions, and chemical processing fluids.

Pentair/Pentek 3FRU1

Micron Rating	Outside Diameter	Inside Dia.	Maximum Temperature	Brand	4⅞" H Flow Rate	4⅞" H Item No.	9⅞" H Flow Rate	9⅞" H Item No.	10" H Flow Rate	10" H Item No.	20" H Flow Rate	20" H Item No.	30" H Flow Rate	30" H Item No.	40" H Flow Rate	40" H Item No.
1 micron	2½"	1"	180 °F	Pentair/Pentek	—	—	—	—	—	—	10 gpm	**4PCA6**	—	—	—	—
	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJF8**	20 gpm	**2MJG5**	30 gpm	**2MJH2**	40 gpm	**2MJH8**
5 micron	2⅜"	1⅛"	145 °F	Pentair/Pentek	2 gpm	**3FRU1**	—	—	—	—	—	—	—	—	—	—
	2⅜"	1⅛"	175 °F	Pentair/Pentek	—	—	2 gpm	**1ECZ7**	—	—	—	—	—	—	—	—
	2½"	1"	180 °F	Pentair/Pentek	—	—	—	—	—	—	10 gpm	**4PCA7**	—	—	—	—
	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJF9**	20 gpm	**2MJG6**	30 gpm	**2MJH3**	40 gpm	**2MJH9**
10 micron	2½"	1"	180 °F	Pentair/Pentek	—	—	—	—	5 gpm	**4PCA4**	10 gpm	**4PCA8**	—	—	—	—
	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJG1**	20 gpm	**2MJG7**	30 gpm	**2MJH4**	40 gpm	**2MJJ1**
25 micron	2½"	1"	180 °F	Pentair/Pentek	—	—	—	—	5 gpm	**4PCA5**	10 gpm	**4PCA9**	—	—	—	—
	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJG2**	20 gpm	**2MJG8**	30 gpm	**2MJH5**	40 gpm	**2MJJ2**
50 micron	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJG3**	20 gpm	**2MJG9**	30 gpm	**2MJH6**	40 gpm	**2MJJ3**
75 micron	2⅝"	1⅛"	176 °F	3M	—	—	—	—	10 gpm	**2MJG4**	20 gpm	**2MJH1**	30 gpm	**2MJH7**	40 gpm	**2MJJ4**

Micron Rating	Outside Diameter	Maximum Temperature	10" H Flow Rate	10" H Item No.	20" H Flow Rate	20" H Item No.	30" H Flow Rate	30" H Item No.
Baked Glass Fiber								
0.5 micron	2½"	750 °F	5 gpm	**4NUX4** *	10 gpm	**4NUY3** *	—	—
1 micron	2½"	750 °F	5 gpm	**4NUX5** *	10 gpm	**4NUY4** *	—	—
5 micron	2½"	750 °F	5 gpm	**4NUX6** *	10 gpm	**4NUY5** *	—	—
10 micron	2½"	750 °F	5 gpm	**4NUX7** *	10 gpm	**4NUY6** *	—	—
Cotton								
1 micron	2½"	120 °F	3 gpm	**3P811**	6 gpm	**5P254**	9 gpm	**5P259**
	2½"	250 °F	3 gpm	**3P795**	6 gpm	**1LPH4** †	9 gpm	**3P799**
5 micron	2½"	120 °F	5 gpm	**3P812**	10 gpm	**5P255**	15 gpm	**5P260**
	2½"	250 °F	5 gpm	**5P282**	10 gpm	**5P284**	15 gpm	**3P800**
	2½"	250 °F	5 gpm	**3P803** †	10 gpm	**5P271** †	15 gpm	**3P808** †
10 micron	2½"	120 °F	5 gpm	**3P813**	10 gpm	**5P256**	15 gpm	**5P261**
	2½"	250 °F	15 gpm	**3P804** †	10 gpm	**5P290** †	15 gpm	**3P809** †
	2½"	250 °F	5 gpm	**3P796**	10 gpm	**5P285**	15 gpm	**5P288**
20 micron	2½"	120 °F	5 gpm	**3P814**	10 gpm	**5P257**	15 gpm	**5P262**
	2½"	250 °F	5 gpm	**3P797**	10 gpm	**5P286**	15 gpm	**3P801**
	2½"	250 °F	5 gpm	**3P805** †	10 gpm	**5P291** †	15 gpm	**3P810** †
50 micron	2½"	120 °F	5 gpm	**3P815**	10 gpm	**5P258**	15 gpm	**5P263**
	2½"	250 °F	5 gpm	**3P806** †	10 gpm	**5P270** †	15 gpm	**5P292** †
	2½"	250 °F	5 gpm	**3P798**	10 gpm	**5P287**	15 gpm	**5P269**
100 micron	2½"	120 °F	5 gpm	**1LPA9**	10 gpm	**1LPA7**	15 gpm	**1LPA5**
	2½"	250 °F	5 gpm	**1LPB6** †	10 gpm	**1LPB4** †	15 gpm	**1LPB2** †
Polypropylene								
5 micron	2½"	120 °F	5 gpm	**3P787**	10 gpm	**5P265**	15 gpm	**3P791**
	2½"	120 °F	5 gpm	**1LPF2**	10 gpm	**1LPF9**	15 gpm	**1LPG7**
	4½"	120 °F	—	—	10 gpm	**4NVL8**	—	—
10 micron	2½"	120 °F	5 gpm	**1LPF3**	10 gpm	**1LPG1**	15 gpm	**1LPG8**
	2½"	120 °F	5 gpm	**3P788**	10 gpm	**5P266**	15 gpm	**3P792**
	4½"	120 °F	—	—	10 gpm	**4NVL9**	—	—
20 micron	2½"	120 °F	10 gpm	**1LPF4**	10 gpm	**1LPG2**	15 gpm	**1LPG9**
	2½"	120 °F	5 gpm	**3P789**	10 gpm	**5P267**	15 gpm	**3P793**
	4½"	120 °F	—	—	10 gpm	**4NVN1**	—	—
50 micron	2½"	120 °F	5 gpm	**5P297**	10 gpm	**5P268**	15 gpm	**3P794**
	4½"	120 °F	—	—	10 gpm	**4NVN2**	—	—
75 micron	2½"	120 °F	5 gpm	**1LPF6**	20 gpm	**1LPG4**	30 gpm	**1LPH2**
100 micron	2½"	120 °F	5 gpm	**1LNZ6**	10 gpm	**1LNZ4**	15 gpm	**1LNZ2**
	4½"	120 °F	—	—	10 gpm	**4NVN3**	—	—

** 304 material grade. † 316 material grade.*

Polypropylene 1LNZ6

Drop-In String & Blanket Wound Filter Cartridges, Series Fulflo Honeycomb

- Inside dia.: 1”
- Max. pressure: 30 psi
- Pkg. of 6

Single-piece construction eliminates spacers and bypassing. Cartridges trap the solid particles on and within the depth of the entire cartridge. Fit all similar competitive housings. Can be used in many fluid applications including oxidizing agents, concentrated alkalies, potable liquids, dilute acids, and alkalies. Also suitable for use with mineral acids, organic acids, solvents, petroleum oils, photo solutions, amines, and water.

3M

Drop-In String & Blanket Wound Filter Cartridges, Series MicroKlean D

- Outside dia.: 2⅞"
- Inside dia.: 1"
- Max. pressure: 125 psi

Suitable for food and beverage and other regulated applications. Allow for very low pressure drops, high flow rates, longer filter life, and more cost-effective filtration. Ideal for potable water, food processing, electronics, and electroplating applications.

Micron Rating	9⅞" H Flow Rate	9⅞" H Item No.	19½" H Flow Rate	19½" H Item No.	29¼" H Flow Rate	29¼" H Item No.
Cotton, Stainless Steel, Max. Temp.: 250 °F						
1 micron	2 gpm	**2PWX7**	4 gpm	**2UDJ3**	6 gpm	**2UDL5**
25 micron	5 gpm	**2UDG5**	10 gpm	**2UDJ7**	15 gpm	**2UDL9**
50 micron	5 gpm	**2UDG6**	10 gpm	**2UDJ8**	15 gpm	**2UDN1**
100 micron	5 gpm	**2UDG8**	—	—	15 gpm	**2UDN3**
Polypropylene, Max. Temp.: 150 °F						
0.5 micron	2 gpm	**2UDH1**	4 gpm	**2UDK3**	6 gpm	**2UDN5**
1 micron	2 gpm	**2UDH2**	4 gpm	**2UDK4**	6 gpm	**2UDN6**
75 micron	5 gpm	**2UDH8**	—	—	—	—
100 micron	5 gpm	**2UDH9**	—	—	15 gpm	**2UDP4**

2PWX7

PENTAIR PENTEK

Drop-In String & Blanket Wound Filter Cartridges, Series DGD

- Outside dia.: 4½"
- Inside dia.: 1"
- Max. temperature: 145°F

100% pure polypropylene construction has high chemical compatibility. Combines selective final filtration with appropriate prefiltration for up to 3 times the dirt holding capacity of similar-sized sediment cartridges, and even greater capacity than standard spun or string-wound cartridges.

4BA93

Micron Rating	9⅞ in H Flow Rate	9⅞ in H Item No.	20 in H Flow Rate	20 in H Item No.
1 micron	10 gpm	**4BA94**	20 gpm	**4BA95**
5 micron	10 gpm	**4BA92**	20 gpm	**4BA93**
25 micron	10 gpm	**4PCD4**	20 gpm	**4PCD5**

Drop-In Pleated Filter Cartridges

Parker domnick hunter PENTAIR PENTEK

- Polypropylene
- Inside dia.: 1⅛"

Abso-Mate—Absolute rated polypropylene construction is compatible with most chemicals, acids, bases, and solvents. Backwashable. 1-pc. construction eliminates bypass. Ideal for membrane prefilter and chemical-handling applications.

Pentek ECP—Resin-impregnated cartridge provides higher wet strength than regular cellulose cartridges. Offer high flow rates and dirt-holding capability, while maintaining extremely low pressure drops.

Pentek R—Bacteria- and chemical-resistant, suitable for residential and commercial applications.

Pentek S1—Economical prefilter for dirt and sediment reduction in applications with chlorinated water.

Polyflow-G—Thermally bonded 100% virgin polypropylene ensures clean filtrates and excellent chemical/thermal compatibility. Ideal for solvent filtration, liquid clarification, recirculation, general water filtration, reagent-grade chemicals, and DI/RO prefiltration.

Abso-Mate 4NVJ5

Pentek ECP 4PAX4

Pentek R 4BA88

Pentek S1 53DP12

Polyflow-G 4NVR1

Micron Rating	Outside Diameter	Max. Pressure	Brand	9¾" H Flow Rate	9¾" H Item No.	10" H Flow Rate	10" H Item No.	11⅛" H Flow Rate	11⅛" H Item No.	20" H Flow Rate	20" H Item No.
Abso-Mate Series, Polypropylene, Max. Temp.: 200 °F											
0.2 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVJ5**	—	—	20 gpm	**4NVK3**
0.45 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVJ6**	—	—	20 gpm	**4NVK4**
1 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVJ7**	—	—	20 gpm	**4NVK5**
5 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVJ8**	—	—	—	—
10 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVJ9**	—	—	—	—
20 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVK1**	—	—	—	—
40 micron	2¾"	35 psi	Parker	—	—	10 gpm	**4NVK2**	—	—	20 gpm	**4NVK9**
Pentek ECP Series, Resin-Impregnated Pleated-Cellulose Polyester, Max. Temp.: 125 °F											
1 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4PAX4**	—	—	—	—	10 gpm	**4PAX6**
	4½"	—	Pentair/Pentek	20 gpm	**4PAY1**	—	—	—	—	20 gpm	**4PAY4**
5 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4PCC5**	—	—	—	—	10 gpm	**4PAX7**
	4½"	—	Pentair/Pentek	20 gpm	**4PAY2**	—	—	—	—	20 gpm	**4PCC4**
20 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4PCC6**	—	—	—	—	10 gpm	**4PAX8**
	4½"	—	Pentair/Pentek	20 gpm	**4PCC3**	—	—	—	—	20 gpm	**4PCC7**
50 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4PAX5**	—	—	—	—	10 gpm	**4PAX9**
	4½"	—	Pentair/Pentek	20 gpm	**4PAY3**	—	—	—	—	20 gpm	**4PAY5**
Pentek R Series, Non-Woven Polyester, Max. Temp.: 125 °F											
30 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4BA85**	—	—	—	—	10 gpm	**4BB20**
	4½"	—	Pentair/Pentek	10 gpm	**4BA88**	—	—	—	—	20 gpm	**4BB21**
50 micron	2⅝"	—	Pentair/Pentek	10 gpm	**4BA86**	—	—	—	—	—	—
	4½"	—	Pentair/Pentek	10 gpm	**4BA87**	—	—	—	—	—	—
Pentek S1 Series, Resin-Impregnated Pleated-Cellulose Polyester, Max. Temp.: 145 °F											
20 micron	2⅝"	—	Pentair/Pentek	10 gpm	**53DP12**	—	—	—	—	—	—
	4½"	—	Pentair/Pentek	10 gpm	**4BA91**	—	—	—	—	—	—
Polyflow-G Series, Polypropylene, Max. Temp.: 160 °F											
0.2 micron	2¾"	35 psi	Parker	—	—	70 gpm	**4NVU4**	70 gpm	**4NVP7**	140 gpm	**4NVU7**
0.5 micron	2¾"	35 psi	Parker	—	—	70 gpm	**4NVU5**	—	—	140 gpm	**4NVU8**
1 micron	2¾"	35 psi	Parker	—	—	—	—	70 gpm	**4NVP9**	—	—
3 micron	2¾"	35 psi	Parker	—	—	—	—	70 gpm	**4NVR1**	—	—
10 micron	2¾"	35 psi	Parker	—	—	—	—	70 gpm	**4NVR2**	—	—
30 micron	2¾"	35 psi	Parker	—	—	70 gpm	**4NVU6**	70 gpm	**4NVR3**	140 gpm	**4NVU9**

Stainless Steel Bag Filter Housings

PENTAIR PENTEK Parker Filtration

- NPT connection

These housings are durable, resist corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstand pressure and high temperatures. Type 304 stainless steel housings are easy to sanitize and resist corrosion caused by water, heat, saltwater, acids, and minerals. Type 316 stainless steel housings have a higher nickel content than 304 stainless, plus molybdenum, for even greater corrosion resistance. These filter housings hold compatible process water bag filters in water management, food and beverage processing, and industrial processing applications.

Band Clamp Closure 38FH45

Swing Bolt Closure 38FH40

Bag Size	Connec. Size	Flow Rate	Max. Pressure	Maximum Temperature	Overall Height	Overall Dia.	Brand	Housing Material: 304 Stainless Steel Mfr. Model	304 Stainless Steel Item No.	316L Stainless Steel Mfr. Model	316L Stainless Steel Item No.
Band Clamp Closure											
1	2"	90 gpm	125 psi	300 °F	27⅝"	8⅝"	Pentair/Pentek	ES12NA410-75	**38FH43**	—	—
2	2"	200 gpm	125 psi	300 °F	41¼"	8⅝"	Pentair/Pentek	ES22NA410-75	**38FH45**	ES22NA6L10-75	**38FH46**
3	1"	25 gpm	125 psi	300 °F	15¾"	4½"	Pentair/Pentek	ES31NA410-75	**38FH47**	ES31NA6L10-75	**38FH48**
4	1"	50 gpm	125 psi	300 °F	21¼"	4½"	Pentair/Pentek	ES41NA410-75	**38FH49**	ES41NA6L10-75	**38FH50**
Swing Bolts Closure											
1	2"	80 gpm	175 psi	400 °F	41"	7⅝"	Parker	CBG1S2T	**4NVC8**	—	—
1	2"	90 gpm	150 psi	300 °F	28⅜"	8⅝"	Pentair/Pentek	ES12NA415-75	**38FH40**	—	—
2	2"	200 gpm	150 psi	300 °F	42⅛"	8⅝"	Pentair/Pentek	ES22NA415-75	**38FH41**	—	—
2	3"	135 gpm	125 psi	300 °F	42⅛"	8⅝"	Pentair/Pentek	ES23NA415-75	**38FH42**	—	—

Parker Filtration

Carbon Steel Bag Filter Housings

4NVC6

- Swing bolt closure
- NPT connection

Housings are extremely strong to resist high pressures, high temperatures, and withstand mechanical shocks and stress. They hold compatible process water bag filters in industrial applications processing oils, machine coolants, chemicals, and noncorrosive fluids.

Bag Size	Connec. Size	Flow Rate	Max. Pressure	Maximum Temperature	Overall Height	Overall Dia.	Mfr. Model	Item No.
1	2"	80 gpm	175 psi	400 °F	41"	7⅝"	CBC1S2T	**4NVC6**
2	2"	80 gpm	175 psi	400 °F	56"	7⅝"	CBC1D2T	**4NVC7**

PENTAIR
PENTEK Pentair Water

Nylon Filter Cartridge Housings

4BA74

4BA75

- Overall dia. 5⅛"
- ¾" connection
- Max. pressure 125 psi

Withstand higher temperatures than standard polypropylene (plastic) housings. Economical alternative to stainless and carbon steel housings.

Flow Rate	Maximum Temperature	Overall Height	Mfr. Model	Item No.
8 gpm	165 °F	12⅛"	150193-75	**4BA74**
20 gpm	125 °F	22¼"	150194-75	**4BA75**

3M

Carbon Steel Cartridge Filter Housings

3P769

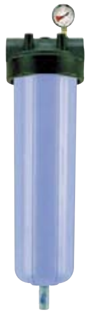
- NPT connection

Housings are extremely strong and withstand mechanical shocks and stress. Used for more precise filtering in industrial applications processing oils, machine coolants, chemicals, and noncorrosive fluids.

Connec. Size	Flow Rate	Max. Pressure	Maximum Temperature	Cartridges Req.	Overall Height	Overall Dia.	Mfr. Model	Item No.
1½"	65 gpm	150 psi	250 °F	3	19¾"	7⅝"	3AL1	**3P769**
2"	105 gpm	150 psi	250 °F	6	20½"	9½"	6AL1	**3P770**

PENTAIR
PENTEK Pentair Water

Polypropylene Cartridge Filter Bag Housings



Filter Housing 4BA80

Filter Bag 4BA96

- NPT connection

Filter Housings resist acids, chemicals, corrosion, and abrasions, and offer impact strength and surface hardness. Feature a threaded cap cover.

Felt Seamless Filter Bags trap fine particles that might otherwise pass through the pinholes in sewn seams. Max. temperature for bags is 200° F. Pkg qty is 20. Bags have a handle and ring collar type.

Bag Size	Connec. Size	Flow Rate	Max. Pressure	Maximum Temperature	Overall Height	Overall Dia.	Series	Mfr. Model	Item No.
Polypropylene Cartridge Filter Housings									
410	1"	20 gpm	100 psi	100 °F	18⅜"	7½"	PBH	150360-75	**4BA80**
	1½"	20 gpm	100 psi	100 °F	18⅜"	7½"	PBH-410	150338-75	**4BA82**
420	1"	40 gpm	90 psi	100 °F	28¾"	7½"	PBH-420	150367-75	**4BA81**
	1½"	40 gpm	90 psi	100 °F	28¾"	7½"	PBH-420	150337-75	**4BA83**

	410 Bag Size		420 Bag Size	
Micron Rating	Flow Rate	Item No.	Flow Rate	Item No.
Felt Seamless Filter Bags				
1 micron	20 gpm	**4BA96**	40 gpm	**4BA97**
5 micron	20 gpm	**4BA98**	40 gpm	**4BA99**
10 micron	20 gpm	**4BB10**	40 gpm	**4BB11**
25 micron	20 gpm	**4BB12**	40 gpm	**4BB13**
50 micron	20 gpm	**4BB14**	40 gpm	**4BB15**
100 micron	20 gpm	**4BB16**	40 gpm	**4BB17**
200 micron	20 gpm	**4BB18**	40 gpm	**4BB19**

PENTAIR PENTEK Pentair Water — Parker Filtration — 3M Aqua-Pure™

Stainless Steel Cartridge Filter Housings

- NPT connection

Housings are durable, resist corrosion from caustic chemicals, corrosive fluids, oils, and gases. **Type 304** stainless steel housings are easy to sanitize and resist corrosion caused by water, heat, saltwater, acids, and minerals. **Type 316** stainless steel housings have a higher nickel content than 304 stainless, plus molybdenum, for even greater corrosion resistance. For precise filtering in water management, food and beverage processing, and industrial processing applications.

Connec. Size	Flow Rate	Max. Pressure	Maximum Temperature	Cartridges Req.	Overall Height	Overall Dia.	Mfr. Model	Brand	Item No.
304 Stainless Steel									
2"	150 gpm	125 psi	300 °F	3	33½"	6¾"	ESC3202NB410-75	Pentair/Pentek	**38FH51**
2"	150 gpm	125 psi	300 °F	5	33⅞"	7⅞"	ESC5202NB410-75	Pentair/Pentek	**38FH54**
2"	150 gpm	125 psi	300 °F	5	43¾"	7⅞"	ESC5302NB410-75	Pentair/Pentek	**38FH56**
2"	150 gpm	125 psi	300 °F	7	44⅛"	9¾"	ESC7302NB410-75	Pentair/Pentek	**38FH59**
304L Stainless Steel									
2"	30 gpm	150 psi	450 °F	6	33"	14½"	4LFE6-1-2F	Parker	**6PAT5**
2"	90 gpm	150 psi	450 °F	6	53⅛"	14½"	4LFE6-3-2F	Parker	**6PAT7**
316 Stainless Steel									
½"	32 gpm	150 psi	250 °F	4	19½"	8"	4808713	3M Aqua-Pure	**1ZKK6**
2"	64 gpm	150 psi	250 °F	8	29½"	8"	4808714	3M Aqua-Pure	**1ZKK7**
2"	96 gpm	150 psi	250 °F	12	39½"	8"	4808715	3M Aqua-Pure	**1ZKK8**
316L Stainless Steel									
2"	150 gpm	125 psi	300 °F	5	33⅞"	7⅞"	ESC5202NB6L10-75	Pentair/Pentek	**38FH55**
2"	150 gpm	125 psi	300 °F	5	43¾"	7⅞"	ESC5302NB6L10-75	Pentair/Pentek	**38FH57**
2"	150 gpm	125 psi	300 °F	7	34¼"	9¾"	ESC7202NB6L10-75	Pentair/Pentek	**38FH58**

304 Stainless Steel 38FH54

316L Stainless Steel 38FH58

Commercial Electric Water Heaters

- ¾" NPT water connection, except Heavy-Duty models are 1½"
- Include T&P valve
- 3-yr. limited manufacturer's warranty on tank and 1-yr. limited manufacturer's warranty on parts

Point-of-Use, 1-Phase—Provide hot water at the consumption point and help reduce costly temperature loss due to long piping runs.

Light-Duty—Use in applications requiring moderate quantities of hot water. Feature innovative upper and lower resistored elements. Max. temp. setting: 180°F.

Heavy-Duty—Models provide high hot water recovery in applications requiring large quantities of hot water. The System Sentinel feature provides a diagnostic panel with LEDs that correspond to the number, location, and status of each element. Multiple screw-in type stainless steel elements resist burn out and corrosion. Include a full port/full flow brass drain valve. All 3-phase models are field convertible to single-phase.

Point-Of-Use
3CFF9

Light-Duty
38UP11

Tank Capacity	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	120 Item No.	208 Item No.	240 Item No.	277 Item No.
Point-of-Use, 1-Phase, 1-Element								
6.0 gal	15 ⅛ in	15 ¾ in	6 gph	1,500 W	**31CD83**	—	—	—
			8 gph	2,000 W	**3CFF9**	**31CD84**	—	**31CD86**
			12 gph	3,000 W	**6UT08**	**6UT09**	—	**6UT10**
			24 gph	6,000 W	—	**31CD85**	—	—
10.0 gal	22 ⅞ in		6 gph	1,500 W	**21XP24**	—	—	—
			8 gph	2,000 W	**31CD87**	**31CD88**	—	**31CD91**
			12 gph	3,000 W	**6UT01**	**3CFG1**	**31CD90**	**3CFG2**
			18 gph	4,500 W	—	**31CD89**	—	—
			24 gph	6,000 W	—	**6UT02**	—	**6UT04**
15.0 gal	24 ¼ in	17 ¾ in	6 gph	1,500 W	**21XP25**	—	—	—
			8 gph	2,000 W	**31CD92**	—	—	**21XP26**
			12 gph	3,000 W	**31CD93**	**31CD94**	—	**31CD97**
			18 gph	4,500 W	—	**31CD95**	—	—
			24 gph	6,000 W	—	**31CD96**	—	—
19.9 gal	25 ⅛ in	19 ¾ in	6 gph	1,500 W	**21XP27**	—	—	—
			8 gph	2,000 W	**31CD98**	**31CD99**	—	—
			12 gph	3,000 W	**3CFG3**	**3CFG4**	—	**3CFG5**
			18 gph	4,500 W	—	**31CE01**	—	**31CE04**
			24 gph	6,000 W	—	**6UT05**	**31CE03**	**6UT06**
30.0 gal	32 in	22 ¼ in	—	6,000 W	—	**38UN77**	—	—

Tank Cap.	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	277 Item No.
Light-Duty, 1-Phase, 2-Element						
30.0 gal	30 in	22 ¼ in	—	4,500 W	**38UN79**	—
38.0 gal	31 ½ in	23 in	—	4,500 W	**38UN85**	—
			—	6,000 W	**38UN83**	—
			—	8,000 W	**38UN84**	—
40.0 gal	48 ⅛ in	20 ¼ in	18 gph	4,500 W	—	**38UN99**
			24 gph	6,000 W	**38UN90**	—
			32 gph	8,000 W	**38UN91**	—
65.0 gal	59 ⅜ in	22 ¼ in	20 gph	5,000 W	**38UP14**	—
			41 gph	10,000 W	**38UP11**	—
			49 gph	12,000 W	**38UP13**	—
119.9 gal	62 ⅞ in	28 ¼ in	41 gph	10,000 W	**38UP23**	—

Tank Capacity	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	240 Item No.	480 Item No.
Light-Duty, 3-Phase, 2-Element							
30.0 gal	29 ½ in	22 ¼ in	—	6,000 W	—	**38UN78**	—
	30 in		—	6,000 W	**38UN80**	—	—
40.0 gal	48 in	20 ¼ in	18 gph	4,500 W	**38UN92**	—	—
			24 gph	6,000 W	**38UN98**	—	—
			24 gph	6,000 W	**38UN94**	**38UN95**	—
			36 gph	9,000 W	**38UN96**	—	—
47.0 gal	32 in	26 ¼ in	—	12,000 W	—	—	**38UN89**
50.0 gal	58 ½ in	20 ¼ in	18 gph	4,500 W	**38UP05**	—	**38UP08**
			24 gph	6,000 W	**38UP02**	**38UP03**	**38UP04**
			49 gph	12,000 W	**38UP06**	—	**38UP10**
65.0 gal	59 ⅜ in	22 ¼ in	41 gph	10,000 W	—	—	**38UP12**
			49 gph	12,000 W	—	—	**38UP15**
80.0 gal	59 ½ in	23 ¾ in	24 gph	6,000 W	—	**38UP18**	—
			36 gph	9,000 W	**38UP22**	—	—
			49 gph	12,000 W	—	—	**38UP20**

Tank Cap.	No. of Elements	Overall Height	Jacket Dia.	Recovery @ 100 F Rise	Total Watts	208 Item No.	240 Item No.	480 Item No.
Heavy-Duty, 1 & 3-Phase								
50.0 gal	3	43 ⅝ in	26 ¼ in	25 gph	6,000 W	**3CFH1**	—	—
	3		26 ¼ in	74 gph	18,000 W	—	**2VRE1**	**2VRE5**
	6		26 ¼ in	74 gph	18,000 W	**3CFH2**	—	—
85.0 gal	3	57 ¹¹⁄₁₆ in	28 ¼ in	36 gph	9,000 W	**473N41**	—	—
	3		28 ¼ in	50 gph	12,000 W	—	—	**21XP18**
	3		28 ¼ in	74 gph	18,000 W	—	**2VRE2**	**2VRE6**
	6		28 ¼ in	74 gph	18,000 W	**21XP38**	—	—
	6		28 ¼ in	112 gph	27,000 W	—	—	**21XP19**
	6		28 ¼ in	149 gph	36,000 W	—	**6E744**	**21XP20**
119.9 gal	3	67 ⅝ in	30 ¼ in	74 gph	18,000 W	—	**6E745**	**21XP21**
	6		30 ¼ in	74 gph	18,000 W	**3CFH3**	—	—
	6		30 ¼ in	99 gph	24,000 W	—	—	**21XP22**
	6		30 ¼ in	112 gph	27,000 W	—	—	**21XP23**
	6		30 ¼ in	149 gph	36,000 W	—	**6E746**	**6E747**
	9		30 ¼ in	149 gph	36,000 W	**3CFH4**	—	—
	9		30 ¼ in	223 gph	54,000 W	—	—	**3CFH6**
120.0 gal	9		30 ¼ in	223 gph	54,000 W	**3CFH5**	—	—
Heavy-Duty, 3-Phase								
85.0 gal	9	57 ¹¹⁄₁₆ in	28 ¼ in	149 gph	36,000 W	**31CE38**	—	—
	9		28 ¼ in	223 gph	54,000 W	**35Z886**	—	—

Classic Point-Of-Use
38UN65

Classic
38UN47

Residential Electric Water Heaters

- ¾" NPT water connection
- Include T&P valve
- 1-phase
- Low-lead compliant

Include full flow brass drain valve, except for Classic Point-Of-Use models.

Classic Point-Of-Use—Can fit under cabinets, counters, or mop sinks. One resistored stainless steel element to help prolong anode and tank life. 6-yr. limited manufacturer's warranty on tank and parts.

Classic—The resistored copper upper element and resistored stainless steel lower element help prolong anode and tank life. Include an EverKleen self cleaning device. 6-yr. limited manufacturer's warranty on tank and parts.

Marathon—The seamless, blow-molded polybutene tank impervious to corrosion and rust. The durable, molded polyethylene outer shell resists dents, salt air, and scratches. Includes a thermally-fused upper element, and titanium lower element. Used in a residential application has limited lifetime tank warranty, 6-yr. limited parts warranty when registered online within 90 days of installation. Commercial application has 5-yr. limited tank warranty, 1-yr. limited parts warranty.

Table Top—Ideal for installation in kitchens or other work spaces. Model has an acid- and heat-resistant baked enamel top, 4" backsplash, and rear plumbing connections. 6-yr. limited manufacturer's warranty on tank and parts.

Tank Capacity	Total Watts	Recovery @ 90 F Rise	Uniform Energy Factor	Overall Height	Jacket Dia.	Mfr. Model	Item No.
Classic Point-Of-Use, 120V, Side Connection							
6.0 gal	2,000 W	9.0 gph	—	15 ¼ in	15 ¾ in	PROE6 1 RH POU	**38UN65**
10.0 gal				23 in	15 ¾ in	PROE10 1 RH POU	**38UN66**
15.0 gal				24 ¼ in	17 ¾ in	PROE15 1 RH POU	**38UN67**
19.9 gal				25 ¼ in	19 ¾ in	PROE20 1 RH POU	**38UN68**
30.0 gal			0.9	32 in	22 ¾ in	PROE30 1 RH95 POU	**38UN41**
Classic, 240V, Top Connection							
28.0 gal	4,500 W	21.0 gph	0.92	30 in	23 in	PROE28 S2 RH95	**38UN42**
30.0 gal				47 ½ in	19 ¼ in	PROE30 T2 RH95	**38UN45**
36.0 gal				31 ½ in	24 ¼ in	PROE36 S2 RH95	**38UN43**
40.0 gal			0.93	48 ¼ in	20 ¼ in	PROE40 M2 RH95	**38UN46**
50.0 gal				58 ⅝ in	20 ⅜ in	PROE50 T2 RH95	**38UN47**
Marathon, 240V, Top Connection							
40.0 gal	4,500 W	21.0 gph	0.92	61 ½ in	21 ¾ in	MR40245 C	**38UN55**
Table Top, 240V, Top Connection							
40.0 gal	4,500 W	21.0 gph	0.81	36 in	24 in	88H-40D	**38UN69**

Electric Hot Water Auto Booster

Compact unit only operates when hot water is required and provides up to 45% more hot water capacity. Booster can be installed on an existing tank water heater or nearby wall, and features programmable Vacation and Eco modes. Model has an external temperature display, rugged stainless steel heat exchanger, and a field serviceable element. Accuracy: ±1°F. ETL Listed.

Water Connec.	Temp. Range	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Voltage	Watts	Mfr. Model	Item No.
¾ in NPT	80° to 140°F	32 °F	19.7 °F	240	7,200 W	HATB007240	**52CE26**

Watts	Style	Voltage*	Insert Length (in.)	Item No.
High-Watt Density				
Approved Vendor, Copper Sheath				
1,500 W	Bolt On	120 V	7 ⅝ in	**2E491**
1,500 W	Screw In	120 V	7 ⅝ in	**2E457**
1,500 W	Screw In	240 V	7 ⅝ in	**2E460**
2,000 W	Screw In	240 V	7 ⅝ in	**2E756**
2,500 W	Screw In	240 V	9 ⅜ in	**2E757**
3,000 W	Screw In	240 V	10 9/16 in	**2E758**
3,500 W	Screw In	240 V	12 9/16 in	**2E759**
4,500 W	Screw In	240 V	13 9/16 in	**2E760**
Low-Watt Density				
Approved Vendor, Copper Sheath				
750 W	Screw In	240 V	7 ¾ in	**2E458**
1,000 W	Screw In	240 V	7 ¾ in	**2E459**
1,500 W	Bolt On	120 V	7 11/16 in	**2E102**
1,500 W	Screw In	120 V	7 ¾ in	**2E295**
1,500 W	Screw In	240 V	7 ¾ in	**2E298**
1,650 W	Screw In	120 V	9 15/16 in	**2E754**
2,000 W	Screw In	240 V	10 11/16 in	**2E299**
2,500 W	Screw In	240 V	7 7/16 in	**2E300**
3,000 W	Screw In	240 V	9 in	**2E301**
3,500 W	Screw In	240 V	9 15/16 in	**2E302**
4,500 W	Screw In	240 V	11 ¾ in	**2E303**
Nickel-Based Alloy Sheath				
Approved Vendor, Nickel Base Alloy Sheath				
2,000 W	Screw In	240 V	9 3/32 in	**2E765**
3,500 W	Screw In	240 V	13 ⅞ in	**2E766**
4,500 W	Screw In	240 V	16 ⅜ in	**2E673**
5,000 W	Screw In	240 V	19 ¼ in	**2E767**
6,000 W	Screw In	240 V	22 ⅝ in	**2E768**
Threaded				
RHEEM, Copper Sheath				
2,000 W	Straight	120 V	7 21/32 in	**15A528**
3,000 W	Foldback	208 V	11 13/16 in	**15A576**
4,500 W	Straight	240 V	13 ½ in	**15A529**
6,000 W	Foldback	208 V	15 ⅛ in	**15A573**
6,000 W	Foldback	240 V	15 ⅛ in	**15A571**
6,000 W	Foldback	480 V	14 ⅞ in	**15A578**
Threaded (1½ in)				
VANGUARD, Copper Sheath				
4,500 W	Foldback	240 V	13 ⅜ in	**15A531**
RHEEM, Titanium Sheath				
4,500 W	Foldback	240 V	16 ½ in	**15A533**

**** 240V elements can be used to replace 208V elements, resulting in a 25% lower recovery rate.***

2E768

Electric Water Heater Elements

All models include a gasket.

Item	Item No.
RHEEM Commercial	
Element, 6000W, 480V, 19.2 in L	**2XE69**

Electric Mini-Tank Water Heaters

- Factory-installed T&P valve

Simply plug into a standard wall outlet and set thermostat control, except 21EW70 and 5AE45 are hardwired. All have glass-lined tank with titanium inside, stainless steel heating element, and 30" grounded 16/3 cord. Eemax MiniTank models have a 5-yr. limited manufacturer's warranty. Bosch heaters have up to 98% thermal efficiency and a 6-yr. limited manufacturer's warranty. UL Listed and UPC Certified; except Eemax models are ETL Listed, CSA and UL Certified.

14U450

4JY90

Tank Cap.	Water Connec.	Total Watts	Voltage	Amps AC	Temp. Range	Overall Height	Overall Width	Overall Length	Brand	Mfr. Model	Item No.
Mini-Tank Water Heaters											
1.5 gal.	1/2in NPT	1,440 W	120	12 A	50° to 140°F	15 ¼ in	9 ¾ in	10 in	Eemax	EMT1	**14U450**
2.5 gal.	1/2in NPT	1,440 W	120	12 A	50° to 140°F	17 in	11 in	11 ¼ in	Eemax	EMT2.5	**21EW68**
2.7 gal	1/2in NPT	1,440 W	120	12 A	65° to 145°F	13¾ in	13 ¾ in	10 ¾ in	Bosch	ES2.5	**4JY89**
4 gal.	1/2in NPT	1,440 W	120	12 A	50° to 140°F	18¼ in	12 ½ in	13 in	Eemax	EMT4	**21EW69**
4 gal.	1/2in NPT	1,440 W	120	12 A	65° to 145°F	13¾ in	13 ¾ in	13 ½ in	Bosch	ES4	**4JY90**
6 gal.	3/4in NPT	1,440 W	120	12 A	50° to 140°F	21 in	14 in	14 ¼ in	Eemax	EMT6	**21EW70**
7 gal.	3/4in NPT	1,440 W	120	12 A	65° to 145°F	17½ in	17 ½ in	14 ½ in	Bosch	ES8	**5AE45**

Chronomite Electric Tankless Water Heaters

Up to 99% efficient and provide unlimited hot water on demand. Feature vandal-resistant aluminum housing and include compression fittings and faucet controls. 54EL15 to 54EL18 have user adjustable temperature and water flow (0.35 to 5.0 gpm). 10G720, 6DXT1, and 6DXT2 are designed for low-flow, handwashing applications and are cold water feed only. All models are certified for use in potable water applications. ADA compliant; UL and IAPMO Listed; HUD.

6DXT1

Water Connec.	Watts	Voltage	Amps AC	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Mfr. Model	Item No.
⅜ in Compression	1800	120VAC	15	0.35 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	25 °F	—	SR-15L/120 HTR-I	**10G720**
	2400	120VAC	20	0.35 gpm	90° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	33 °F	11 °F	SR-20L/120 HTR-I	**6DXT1**
	3600	120VAC	30	0.35 gpm	90° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	49 °F	16 °F	SR-30L/120 HTR-I	**6DXT2**
	4150	277VAC	15	0.35 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	57 °F	19 °F	SR-15L/277 HTR-I	**19C803**
	4160	208VAC	20	0.35 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	57 °F	19 °F	SR-20L/208 HTR-I	**10G722**
	5540	277VAC	20	0.35 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	76 °F	25 °F	SR-20L/277 HTR-I	**10G723**
	6240	208VAC	30	0.65 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	—	28 °F	SR-30/208 HTR-I	**10G725**
	8310	277VAC	30	0.65 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	—	38 °F	SR-30/277 HTR-I	**10G724**
	8320	208VAC	40	0.65 gpm	80° to 120°F	6 ¼ in	9 ⅝ in	2 ¾ in	—	38 °F	SR-40/208 HTR-I	**19C804**
¾ in MNPT	11,520	240VAC	48	0.35 gpm	Ambient Plus Temp Rise	9 ¾ in	10 ½ in	4 ¼ in	—	52 °F	R-48L/240	**54EL15**
	13,920	240VAC	58	0.35 gpm	Ambient Plus Temp Rise	9 ¾ in	10 ½ in	4 ¼ in	—	63 °F	R-58L/240	**54EL17**
	18,000	240VAC	75	0.35 gpm	Ambient Plus Temp Rise	9 ¾ in	10 ½ in	4 ¼ in	—	82 °F	R-75L/240	**54EL18**

Bosch Electric Tankless Water Heaters

Mount under sinks in any direction. Meet National Appliance Energy Conservation Act. UL and C-UL Listed, are low lead, and certified for use in potable water applications.

Note: Pay careful attention to unit selection. Temperature and volume of water are dependent on the kilowatt rating of heater. The higher the kilowatt rating, the greater the volume of hot water. Max. outlet temp.: 135°F. These heaters are not designed to be used as boosters or preheaters. Install without a temperature/pressure relief valve (refer to local codes) close to the faucet or tap to eliminate long pipe runs. ½" NPT inlet and outlet.

2KJH5

53XL95

Water Connec.	Watts	Voltage	Amps AC	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm*	Temp. Rise @ 1.5 gpm*	Temp. Rise @ 2.5 gpm*	Mfr. Model	Item No.
½ in NPT	12,000	240VAC	50	0.6 gpm	135°F	6 ½ in	12 ¾ in	3 in	159 °F	55 °F	33 °F	US12	**2KJH5**
¾ in NPT	17,000	220VAC	60	0.6 gpm	100° to 140°F	12 ½ in	15 ½ in	4 ½ in	140 °F	75 °F	45 °F	WH17	**53XL95**
	27,000	220VAC	120	0.8 gpm	100° to 140°F	12 ½ in	15 ½ in	4 ½ in	140 °F	119 °F	71 °F	WH27	**53XL96**

**** °F at gpm. Gal. per min./minimum water pressure 15 psi/max. water pressure 150 psi.***

Sanitizing Commercial Water Heaters

- ASME T&P valve included
- Max. temp: 190°F
- Water connections have 1¼" NPT dielectric nipples

These 240V, 3-phase electric units provide 180°F sanitizing rinse water to comply with NSF and all federal, state, county, and local department sanitation codes. Screw-in type heating elements. LED diagnostic panel signals any nonoperating element. Glass-lined storage tank. 6" stainless steel legs. 150 psi working pressure. Fused 120V control circuit. 3-yr. manufacturer's warranty on tank.

6E769

Tank Cap.	Total Watts	Overall Height	Overall Width	Overall Length	Recovery @ 100°F Rise (gph)	Mfr. Model	Item No.
10 gal.	12,000 W	23 in	21 ¾ in	21 ½ in	50	E10-12-G	**6E769**
10 gal.	18,000 W	23 in	21 ¾ in	21 ½ in	74	E10-18-G	**6E770**

481R30

Eemax

Eemax Electric Tankless Water Heaters

Compact, energy efficient, and instantly heat water as needed and can provide endless hot water. Easy to install and require no drain pans, T&P valves, or venting. Have field serviceable elements and are ideal for use in commercial, industrial, residential and safety applications. All models are low-lead NSF 372 compliant and UL Listed.

LavAdvantage—Ideal for point-of-use handwashing and emergency eye wash fountain applications.

AccuMix II—Meet UPC 407.3 requirement with integrated ASSE 1070 mixer set not to exceed 110°F.

FlowCo—Ideal for point-of-use handwashing applications.

ProSeries—Commercial-grade for applications requiring up to 8 gpm. Can accommodate point-of-use and multiple fixture use.

Series Two—Thermostatic models suitable for commercial and residential applications up to 4 gpm.

Three Phase—Commercial-grade for up to 5 gpm in 3-compartment sink and hot water process applications.

SafeAdvantage—ANSI Z358.1-compliant, commercial-grade models for use in emergency drench shower and eye/face wash applications.

SpecAdvantage—Models are commercial-grade and designed for low, duty cycle applications where precise temperature control is needed.

Water Connec.	Watts	Voltage	Amps	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Mfr. Model	Item No.
LavAdvantage, Thermostatic, For Use With Emergency Eyewash													
⅜ in Comp.	9,500 W	240	40 A	0.2 gpm	70° to 90°F	9 ¾ in	5 ¼ in	3 in	130 °F	43 °F	25 °F	SPEX95T EE	**451G70**
	10,000 W	277	36 A	0.2 gpm	70° to 90°F	9 ¾ in	5 ¼ in	3 in	136 °F	45 °F	27 °F	SPEX100T EE	**451G52**
AccuMix II													
⅜ in Comp.	3,500 W	120	29 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	48 °F	16 °F	10 °F	AM004120T	**481R29**
	4,100 W	277	15 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	19 °F	11 °F	AM004277T	**481R34**
	4,800 W	240	20 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	66 °F	22 °F	13 °F	AM005240T	**481R30**
	6,500 W	240	27 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	30 °F	18 °F	AM007240T	**481R31**
	8,000 W	277	29 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	36 °F	22 °F	AM008277T	**481R35**
	9,500 W	240	40 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	43 °F	26 °F	AM010240T	**481R32**
	10,000 W	277	36 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	46 °F	27 °F	AM010277T	**481R36**
	11,500 W	240	48 A	0.3 gpm	105° to 110°F	13 ¾ in	5 ¼ in	4 in	52 °F	52 °F	31 °F	AM012240T	**481R33**
FlowCo													
⅜ in Comp.	2,400 W	120	20 A	0.25 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	33 °F	11 °F	7 °F	SPEX2412	**485A93**
	3,000 W	120	25 A	0.25 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	41 °F	14 °F	8 °F	SPEX3012	**485A94**
	3,000 W	208	15 A	0.25 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	41 °F	14 °F	8 °F	SPEX3208	**485C03**
	3,000 W	277	11 A	0.25 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	41 °F	14 °F	8 °F	SPEX3277	**485C06**
	3,500 W	120	29 A	0.3 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	48 °F	16 °F	10 °F	SPEX3512	**485A95**
	3,500 W	240	15 A	0.3 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	48 °F	16 °F	10 °F	SPEX35	**485A96**
	4,100 W	208	20 A	0.4 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	56 °F	19 °F	11 °F	SPEX4208	**485C04**
	4,100 W	277	14.6 A	0.4 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	55 °F	18 °F	11 °F	SPEX4277	**485C07**
	4,800 W	240	20 A	0.4 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	66 °F	22 °F	13 °F	SPEX48	**485A97**
	5,500 W	240	23 A	0.5 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	75 °F	25 °F	15 °F	SPEX55	**485A98**
	6,000 W	277	22 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	82 °F	27 °F	16 °F	SPEX60	**485C08**
	6,500 W	240	27 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	89 °F	30 °F	18 °F	SPEX65	**485A99**
	7,500 W	240	32 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	102 °F	34 °F	20 °F	SPEX75	**485C01**
	8,000 W	277	29 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	109 °F	36 °F	22 °F	SPEX80	**485C09**
	8,300 W	208	40 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	113 °F	38 °F	23 °F	SPEX8208	**485C05**
	9,000 W	277	33 A	0.7 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	123 °F	41 °F	25 °F	SPEX90	**485C10**
	9,500 W	240	40 A	0.8 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	130 °F	43 °F	26 °F	SPEX95	**485C02**
	10,000 W	277	36 A	0.8 gpm	82° to 130°F	9 ¾ in	5 ¼ in	3 in	137 °F	46 °F	27 °F	SPEX100	**485C11**
ProSeries													
½ in Comp.	13,000 W	240	54 A	0.3 gpm	80° to 140°F	11 ¾ in	8 in	3 ¾ in	178°F *	59 °F	36 °F	PR013240	**52CE29**
¾ in NPT	18,000 W	240	75 A	0.3 gpm	80° to 140°F	17 in	14 in	3 ¾ in	246°F *	82 °F	49 °F	PR018240	**52CE30**
Series Two													
½ in Comp.	16,600 W	208	80 A	1.5 gpm	50° to 90°F	10 in	10 ½ in	4 ½ in	—	75.6 °F	43.7 °F	EX1608T2 EE	**21HT78**
	20,000 W	277	72 A	0.7 gpm	100° to 140°F	10 in	10 ½ in	4 ½ in	—	91 °F	54 °F	EX200TC	**6FCA0**
¾ in NPT	19,000 W	240	79 A	1.5 gpm	180°F	10 in	10 ½ in	4 ½ in	—	86.5 °F	52 °F	EX190T2 S	**21HT81**
	20,000 W	277	72 A	0.7 gpm	180°F	10 in	10 ½ in	4 ½ in	—	91 °F	54 °F	EX200TC S	**6FCA1**
Three Phase													
½ in Comp.	18,000 W	208	50 A	0.7 gpm	100° to 140°F	12 ¼ in	15 ¼ in	4 ½ in	—	55 °F	49.2 °F	EX180T2T	**21HT79**
	20,000 W	480	24 A	0.75 gpm	100° to 140°F	12 ¼ in	15 ¼ in	4 ¼ in	—	—	54 °F	ED020480T2T	**29PH83**
	24,000 W	208	67 A	0.7 gpm	100° to 140°F	12 ¼ in	15 ¼ in	4 ½ in	—	108 °F	66 °F	EX240T2T	**6FCA2**
	32,000 W	480	38.5 A	0.7 gpm	100° to 140°F	12 ¼ in	15 ¼ in	4 ½ in	—	146 °F	87 °F	ED032480T2T	**6FCA3**
	32,000 W	480	39 A	0.7 gpm	180°F	12 ¼ in	15 ¼ in	4 ½ in	—	97 °F	87.4 °F	ED032480T2T S	**21HT75**
SafeAdvantage													
1 ¼ in NPT	72,000 W	480	87 A	2.5 gpm	60° to 90°F	24 in	30 in	14 in	—	—	90 °F	AP072480 EFD N4	**30UL23**
SpecAdvantage													
1 ¼ in NPT	48,000 W	480	57.8 A	1 gpm	100° to 140°F	17 27⁄64 in	17 ⅛ in	10 9⁄32 in	—	218 °F	131 °F	AP048480	**30UK90**
	64,000 W	208	178 A	2.5 gpm	100° to 140°F	17 27⁄64 in	26 11⁄64 in	10 9⁄32 in	—	—	140 °F	AP064208	**30UL12**
	108,000 W	480	130 A	2.5 gpm	100° to 140°F	17 27⁄64 in	26 11⁄64 in	10 9⁄32 in	—	—	140 °F	AP108480	**30UL36**
SpecAdvantage, Sanitation													
1 ¼ in NPT	32,000 W	208	89 A	1 gpm	0° to 180°F	17 27⁄64 in	26 11⁄64 in	10 9⁄32 in	—	145 °F	87 °F	AP032208 S	**30UK69**
	54,000 W	208	150 A	1.5 gpm	0° to 180°F	17 27⁄64 in	26 11⁄64 in	10 9⁄32 in	—	245 °F	147 °F	AP054208 S	**30UL03**

** Temperature rise at maximum output of unit.*

53UJ81

53UJ87

Professional Classic Electric Tankless Water Heaters

Rheem

Energy-efficient water heaters only heat water when you need it. Compact models can save energy, water, and are ideal for delivering unlimited hot water in commercial and residential applications. Require no venting, T&P valves, or drain pans to help ease installation. Include durable brass or stainless steel heat exchanger and a field serviceable element. 53UJ81 and 53UJ82 feature an external temperature display and control, and self-modulating power technology. All models are UL Listed and CSA Certified.

Water Connec.	Watts	Voltage	Amps	Min. Flow Activation	Temp. Range	H	W	D	Temp. Rise @ 0.5 gpm	Temp. Rise @ 1.5 gpm	Temp. Rise @ 2.5 GPM	Mfr. Model	Item No.
½ in NPT	3,500 W	120	29 A	0.3 gpm	80° to 140°F	5⅞"	10⅞"	2¾"	48 °F	—	—	RTEX-04	**53UJ81**
	5,500 W	208/240	29 A	0.3 gpm	80° to 140°F	5⅞"	10⅞"	2¾"	75 °F	—	—	RTEX-06	**53UJ82**
	8,000 W	240	33 A	0.3 gpm	80° to 140°F	12⅝"	8¼"	3⅝"	—	36 °F	22 °F	RTEX-08	**53UJ83**
	11,000 W	240	46 A	0.3 gpm	80° to 140°F	12⅝"	8¼"	3⅝"	—	50 °F	30 °F	RTEX-11	**53UJ84**
	13,000 W	240	54 A	0.3 gpm	80° to 140°F	12⅝"	8¼"	3⅝"	—	59 °F	36 °F	RTEX-13	**53UJ85**
¾ in NPT	18,000 W	208/240	75 A	0.3 gpm	80° to 140°F	18¼"	14½"	3½"	—	—	49 °F	RTEX-18	**53UJ86**
	24,000 W	208/240	100 A	0.3 gpm	80° to 140°F	18¼"	14½"	3½"	—	—	66 °F	RTEX-24	**53UJ87**
	27,000 W	240	112 A	0.3 gpm	80° to 140°F	18¼"	14½"	3½"	—	—	74 °F	RTEX-27	**53UJ88**
	36,000 W	208/240	150 A	0.3 gpm	80° to 140°F	18¼"	21⅝"	3½"	—	—	98 °F	RTEX-36	**53UJ89**

Commercial Gas Water Heaters

Standard Hot Water Recovery—Multiflue tank has top, front, and rear inlet/outlet water connections. Multiple magnesium anode rods resist corrosion. Spark-to-pilot ignition system, fiberglass insulation, and the innovative System Sentinel diagnostic system with LEDs that verify heater status. Altitude certifications vary according to model and gas type. 80% thermal efficiency on 98,000 to 399,900 Btu models with 180°F max. temp.

Low NOx—Power assist enclosed burner design with stainless steel multiport burner tubes. Universal multiflue tank design with high limit temperature cutout.

Ultra Low NOx—Power assist burner design has stainless steel multiport burner tubes for longer Ultra Low NOx performance, <14ng/J.

High Recovery—38UP25 has an innovative, high-temperature, porcelain/enamel coating for corrosion resistance. Automatic control system shuts off gas supply if pilot is extinguished. Anode rods are magnesium construction for long tank life. 3CFJ7, 6E740, and 3CFJ8 have innovative System Sentinel diagnostic system with LEDs that verify heater status.

5AU61

Tank Cap.	Vent Type	BtuH	Draft Hood Size	Recovery @ 100 F Rise	Height to Top of Vent Connection	Jacket Dia.	Mfr. Model	Item No.
Standard Hot Water Recovery, Natural Gas, Limited 3 yr Tank and 1 yr Parts Warranty, 80% Thermal Efficiency								
65 gal.	Standard	360,000	8 in	349 gph	70 11/16 in	26 ¼ in	G65-360A	**6E738**
72 gal.	Standard	250,000	6 in	242 gph	71 1/16 in	26 ¼ in	G72-250A	**2VRD6**
	Standard	300,000	8 in	291 gph	71 in	26 ¼ in	G72-300A	**15A517**
75 gal.	Standard	125,000	5 in	121 gph	65½ in	26 ¼ in	G75-125	**5AU61**
76 gal.	Standard	180,000	6 in	175 gph	68 13/16 in	26 ¼ in	G76-180	**3CFH8**
	Standard	199,900	6 in	194 gph	68 13/16 in	26 ¼ in	G76-200	**2VRD7**
82 gal.	Standard	156,000	6 in	151 gph	68 13/16 in	26 ¼ in	G82-156	**5AU62**
85 gal.	Standard	300,000	8 in	291 gph	78 7/16 in	26 ¼ in	G85-300A	**2VRD8**
	Standard	399,900	10 in	388 gph	78 13/16 in	26 ¼ in	G85-400A	**35Z883**
90 gal.	Standard	715,000	10 in	693 gph	74½ in	30 in	GX90-715A	**3CFJ3**
91 gal.	Standard	199,900	6 in	194 gph	76 5/16 in	26 ¼ in	G91-200	**6E743**
100 gal.	Standard	80,000	4 in	78 gph	69⅝ in	28 ¼ in	G100-80	**15A518**
	Standard	199,900	6 in	194 gph	73 1/16 in	30 ¼ in	G100-200	**5AU63**
	Standard	270,000	8 in	262 gph	73⅞ in	30 ¼ in	G100-270A	**6UT21**
LoNOx Natural Gas, 40ng/J, Limited 3 yr Tank and 1 yr Parts Warranty, 80% Thermal Effeciency								
72 gal.	Standard	250,000	6 in	242 gph	71 1/16 in	26 ¼ in	GN72-250A	**35Z884**
75 gal.	Standard	75,100	4 in	73 gph	64 in	26 ¼ in	G75-75N-3	**2VRE3**
	Standard	125,000	5 in	121 gph	65½ in	26 ¼ in	GN75-125	**3CFJ4**
90 gal.	Standard	550,000	10 in	533 gph	74½ in	30 in	GX90-550A	**3CFJ2**
91 gal.	Standard	199,900	6 in	194 gph	76 5/16 in	26 ¼ in	GN91-200	**3RA88**
100 gal.	Standard	76,000	4 in	74 gph	69⅝ in	28 ¼ in	G100-80N	**2LAD2**
	Standard	199,900	6 in	194 gph	73 1/16 in	30 ¼ in	GN100-200	**3CFJ5**
	Standard	270,000	6 in	262 gph	73⅞ in	30 ¼ in	GN100-270A	**15A519**
	Standard	399,900	8 in	388 gph	76 in	30 ¼ in	GN100-400A	**3CFJ6**
Ultra LoNOx Natural Gas, 14ng/J, Limited 3 yr Tank and 1 yr Parts, Warranty, 80% Thermal Effeciency								
75 gal.	Standard	125,000	5 in	121 gph	65½ in	26 ¼ in	GNU75-125	**35Z887**
76 gal.	Standard	199,900	6 in	194 gph	68 13/16 in	26 ¼ in	GNU76-200	**35Z888**
100 gal.	Standard	199,900	6 in	194 gph	73 1/16 in	30 ¼ in	GNU100-200	**35Z889**
	Standard	250,000	6 in	242 gph	73¼ in	30 ¼ in	GNU100-250A	**21XP16**
	Standard	399,900	8 in	388 gph	76 in	30 ¼ in	GNU100-400A	**35Z885**
High Recovery, LP, Limited 3 yr Tank and 1 yr Parts Warranty, 80% Thermal Efficiency								
75 gal.	Standard	75,100	4 in	73 gph	64 in	26 ¼ in	G75-76LP	**38UP25**
76 gal.	Standard	199,900	6 in	194 gph	68 13/16 in	26 ¼ in	G76-200LP	**3CFJ7**
91 gal.	Standard	199,900	6 in	194 gph	76 5/16 in	26 ¼ in	G91-200LP	**6E740**
100 gal.	Standard	199,900	6 in	194 gph	73 1/16 in	30 ¼ in	G100-200LP	**3CFJ8**

Power Venter Kits—Allow venting up to 50 ft. away from a side wall where no chimney exists. Aluminum vent terminal with heat shield allows installation through combustible or noncombustible surfaces. Kit includes vibration isolators.

Note: Compatible with Rheem-Ruud commercial gas heaters from 98,000 Btu to 400,000 Btu. Not for use on Low Emission water heaters.

Motor Amps	Voltage	Mfr. Model	Item No.
Power Venter Kits			
1.26 A	115 V	AP11646	**5AU67**
1.51 A	115 V	AP11645	**5AU68**

Storage Tanks—Have 2 heavy-duty magnesium anode rods, 1" FNPT relief valve opening, and ¾" NPT thermometer and aquastat openings.

Note: Not ASME compliant.

Tank (gal.)	Height to top of Tank (in.)	Tank Dia. (in.)	Max. Working Pressure (psi)	Mfr. Model	Item No.
Storage Tanks, 5-yr. Tank Warranty					
80	58 5/16	24 7/16	150	ST80	**15A520**
115	59¼	28¼	150	ST120	**6UT22**
175	67¼	32¼	150	ST175A	**31CE48**

Residential Gas Water Heaters

- Max. pressure: 150 psi
- Factory-installed T&P valve
- ¾" FNPT water connections

Heaters feature the innovative Everkleen system that helps reduce sediment build up. Models have a piezo igniter, glass-lined tank, enhanced flow brass drain valve, and anode rod. Suitable for natural gas, except 38UN64 and 38UN63 are LP gas compatible. All have an Eco-friendly burner and Low NOx design that meets 40ng/J limit. All water heaters are built and shipped for standard-altitude areas, but will perform at a derated value in higher altitudes. All heaters are AHRI and CSA Certified.

Note: Not for use in mobile homes. Conversion kits are not available. For SCAQMD-compliant heaters for California, call 1-800-GRAINGER (472-4643).

38UN58

Vent Type	Tank Cap.	BtuH	Draft Hood Size	Height to Top of Vent Connection	Jacket Dia.	Mfr. Model	Item No.
Limited 6 yr Tank and Parts Manufacturer Warranty							
Power	40 gal.	40,000	2 in 3 in	67⅜ in	19 ¾ in	PROG40-40N RH67 PV	**38UN72**
	50 gal.	42,000	2 in 3 in	66⅜ in	21 ¾ in	PROG50-42N RH67 PV	**38UN73**
Standard	29 gal.	32,000	3 in 4 in	59¾ in	16 ½ in	PROG29-32N RH63	**38UN58**
	40 gal.	36,000	3 in 4 in	63¼ in	19 ½ in	PROG40-36P RH62	**38UN64**
	40 gal.	38,000	3 in 4 in	61½ in	19 in	PROG40-38N RH62	**38UN59**
	40 gal.	40,000	2 in 3 in	68½ in	19 ¾ in	PROG40-40N RH67 PDV	**38UN70**
	50 gal.	36,000	3 in 4 in	61¼ in	20 ½ in	PROG50-36P RH60	**38UN63**
	50 gal.	38,000	3 in 4 in	61¼ in	20 ½ in	PROG50-38N RH60	**38UN60**
	50 gal.	40,000	2 in 3 in	67⅝ in	21 ¾ in	PROG50-40N RH67 PDV	**38UN71**
Limited 8 yr. Tank and Parts Manufacturer Warranty							
Power Vent	75 gal.	75,100	3 in 4 in	72 in	26 ¼ in	PRO+G75-76N RH PV	**38UN62**
Standard	75 gal.	75,100	4 in	64 in	26 ¼ in	PRO+G75-76N RH	**38UN61**

Triton Ultra High Efficiency Commercial Gas Water Heater

- Max. temp.: 185°F
- Water connections: 1½" (top), 2" (side)

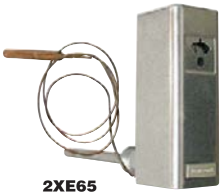
Feature up to 98% thermal efficiency and the LeakSense integrated leak detection system that can catch leaks as small as a grain of sand. EcoNet technology can provide performance updates and alerts via mobile devices and a full-color LCD display. 455C80 to 455C83 add the LeakGuard system with an innovative auto shut-off valve that allows no more than 24 oz. of water to escape the tank in a vacuum lock. All models provide ongoing monitoring of vital components to help detect and alert of potential issues, plus the innovative built-in condensate neutralizer helps reduce water acidity for safe drainage. Power vent or power direct vent. CSA Certified and ASHRAE compliant.

455C72

Tank Capacity	BtuH	Draft Hood Size	Recovery @ 100 F Rise	Height to Top of Heater	Jacket Dia.	Mfr. Model	Item No.
Triton, Limited 3 yr Tank and 1 yr Parts Manufacturer Warranty							
100.0 gal	199,900	3 in	229 gph	77 in	26 ¼ in	GHE100SU-200	**455C72**
	300,000	3 in	338 gph	77 in	26 ¼ in	GHE100SU-300A	**455C74**
Triton SS, Limited 5 yr Tank and 1 yr Parts Manufacturer Warranty							
100.0 gal	199,900	3 in	229 gph	77 in	26 ¼ in	GHE100SS-200	**455C80**
	250,000	3 in	291 gph	77 in	26 ¼ in	GHE100SS-250A	**455C82**
	300,000	3 in	338 gph	77 in	26 ¼ in	GHE100SS-300A	**455C83**

2XE62

2XE63



2XE65

Rheem RUUD

Replacement Parts and Accessories

Description	Brand	Mfr. Model	Item No.
Blower Assembly	Rheem	AM39729	**15A595**
Blower Assembly, High Performance	Rheem	SP13416	**15A541**
Blower Assy/Pressure Switch Upgrade Kit	Rheem	SP20165C	**15A601**
Blower Assy/Pressure Switch Upgrade Kit	Rheem	SP20165E	**15A599**
Burner Assembly	Rheem	AM39189	**15A590**
Burner Assembly	Rheem	AM39732	**15A591**
Gas Control Thermostat, LP	Rheem	SP14269A	**15A549**
Gas Control Thermostat, Natural Gas	Rheem	AP14732A	**15A585**
Gas Control Thermostat, Natural Gas	Rheem	SP13845A	**15A550**
Gas Control Thermostat, Natural Gas	Rheem	SP14270F	**15A546**
Gas Control Thermostat, Natural Gas	Rheem	SP14270G	**15A547**
Gas Control Thermostat, Natural Gas	Rheem	SP14339B	**15A548**
Gas Control Thermostat, Natural Gas	Rheem	SP14904A	**15A551**
Gas Control Thermostat Kit, Natural Gas	Rheem	SP20161A	**15A540**
Gas Valve	Rheem-Ruud	SP10963D	**2XE62**
Gas Valve, LP	Rheem	SP10963E	**15A588**
Gas Valve, Natural	Rheem	SP12541B	**15A582**
Gas Valve, Snap Open, Natural Gas	Rheem	SP12543	**15A583**
Gas Valve, Snap Open, Natural Gas	Rheem	SP12866N	**15A584**
Igniter, Hot Surface Ignition (HSI), Natural Gas	Rheem	SP14218A	**15A557**
Igniter, Hot Surface Ignition (HSI), Natural Gas	Rheem	SP14218B	**15A556**
Igniter Pilot Burner	Rheem	SP12237	**15A606**
Ignition Control	Rheem-Ruud	SP10763C	**2XE63**
LWD Element	Rheem	SP13409BM	**15A579**
Piezo Igniter and Bracket	Rheem	SP14410	**15A555**
Pilot Assembly, LP	Rheem	SP10764C	**15A605**
Pilot Assembly, Natural Gas	Rheem	SP12560B	**15A545**
Pilot Assembly Replacement Kit, Natural Gas	Rheem	SP13418	**15A543**
Pilot Assembly Replacement Kit, Natural Gas	Rheem	SP13422	**15A544**
Pilot Sensor	Rheem-Ruud	SP10764B	**2XE64**

Description	Brand	Mfr. Model	Item No.
Pressure Switch	Rheem	SP14197B	**15A603**
Pressure Switch	Rheem	SP14197C	**15A604**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20164	**15A536**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20166A	**15A534**
Replacement Gas Control Thermostat, Natural Gas	Rheem	SP20166B	**15A535**
Replacement Lower Thermostat, Electric	Rheem	SP11695	**15A527**
Replacement Thermocouple	Rheem	SP6379R	**15A580**
Replacement Thermostat, Electric	Rheem	SP11234	**15A565**
Replacement Thermostat, Electric	Rheem	SP11699	**15A563**
Replacement Thermostat, Electric	Rheem	SP13410	**15A566**
Replacement Thermostat, Electric	Rheem	SP213600	**15A525**
Replacement Thermostat, Electric	Rheem	SP8260	**15A564**
Replacement Thermostat, Electric	Rheem	SP8295	**15A567**
Replacement Upper Thermostat, Electric, Two Element Non-Simultaneous	Rheem	SP11698	**15A524**
Suspended Water Heater Platform, Steel, 2 ½ in H, for Weights up to 375 lb	—	40-SWHP	**13G662**
Suspended Water Heater Platform, Steel, 2 ½ in H, for Weights up to 600 lb	—	50-SWHP	**13G664**
Thermostat, Electric	Rheem-Ruud	SP11231	**2XE67**
Thermostat, Electric	Rheem-Ruud	SP8293	**2XE75**
Thermostat, Gas, Commercial, High Limit	Rheem-Ruud	SP11798B	**2XE65**
Thermostat/Burner Assembly Retrofit Kit, Natural Gas	Rheem	SP20170A	**15A538**
Thermostat/Burner Assembly Retrofit Kit, Natural Gas	Rheem	SP20170B	**15A539**
Wall Mounted Water Heater Platform, Steel, 2 ½ in H, for Weights up to 375 lb	—	40-SWHP-W	**13G663**
Wall Mounted Water Heater Platform, Steel, 2 ½ in H, for Weights up to 600 lb	—	50-SWHP-W	**13G665**
Water Heater Element Wrench, For Pipe Size 1 ½ in, Includes ¾ in to ½ in Drive Adapter	—	45058	**447M45**
Water Heater Element Wrench, For Pipe Size 1 ½ in, Includes Bar Handle	—	45059	**447M46**
Water Heater Pan, Aluminum, 20 in dia.	—	QP-20	**13G666**
Water Heater Pan, Aluminum, 22 in dia.	—	QP-22	**13G667**
Water Heater Pan, Aluminum, 24 in dia.	—	QP-24	**13G668**
Water Heater Pan, Aluminum, 26 in dia.	—	QP-26	**13G669**
Water Heater Pan, Aluminum, 28 in dia.	—	QP-28	**13G670**
Water Heater Pan, Aluminum, 30 in dia.	—	QP-30	**13G671**
Water Heater Pan, Plastic, 22 in dia.	—	—	**3VU59**
Water Heater Pan, Plastic, 30 in dia.	—	—	**3VU61**
Water Heater Stand, for Tanks Up to 50 gal.	—	—	**3VU62** *
Water Heater Stand, Steel, 16 in H, for Weights up to 1200 lb	—	40-S-24-U	**13G659**
Water Heater Stand, Steel, 16 in H, for Weights up to 1200 lb	—	40-S-30-U	**13G660**
Water Heater Stand, Steel, 16 in H, for Weights up to 600 lb	—	40-S-22-U	**13G658**
Water Heater Straps, for Tanks Up to 120 gal	—	QS-120	**13G672**
Water Heater Straps, for Tanks Up to 80 gal	—	QS-50	**13G673**
Water Heater Straps, for Tanks Up to 80 gal	—	QS-50-P	**13G675**

*** Meets National Fuel Gas and City of Los Angeles Codes regarding water heater installation.***

2KJG9

BOSCH

Bosch Gas Tankless Water Heaters

- ¾" gas and water connections
- Electronic ignition

All heaters are CSA Certified. 2KJG9 and 2KJH1 are Energy Star Certified. 2KJG9 and 2KJH1 meet ANSI Z21.10.4.

Find list of included hardware with each heater at Grainger.com.

Input (Btu)	Energy Factor	H (in.)	W (in.)	D (in.)	GPM @ 45F Rise	GPM @ 90°F Rise	Natural Gas Mfr. Model	Natural Gas Item No.	Liquid Propane (LP) Mfr. Model	Liquid Propane (LP) Item No.
199,000	0.8	30 ½ in	17 ⅞ in	11 ¼ in	7.3	3.7	—	—	940 ES LP	**2KJH1** †
	0.83	30 ½ in	17 ⅞ in	11 ¼ in	7.3	3.7	940 ES NG	**2KJG9** †	—	—
225,000	—	30 ½ in	17 ⅞ in	11 ¼ in	9.4	4.7	C 1210 ESC NG	**6FZP4**	—	—
	—	30 ½ in	17 ⅞ in	11 ¼ in	9.4	4.7	C 1210 ES NG	**6FZP2** †	—	—
	0.94	30 ½ in	17 ⅞ in	11 ¼ in	9.4	4.7	—	—	C 1210 ES LP	**6FZP3** †
	0.94	30 ½ in	17 ⅞ in	11 ¼ in	9.4	4.7	—	—	C 1210 ESC LP	**6FZW5**

† 15-yr. limited manufacturer's warranty on heat exchanger; 5-yr. limited manufacturer's warranty on parts and 1-yr. manufacturer's warranty on labor.

459W37

Rheem Commerical Gas Tankless Water Heaters

- ¾" gas and water connections
- Electronic ignition

Featuring up to 97% thermal efficiency these tankless water heaters have 185°F built-in maximum temperature and common venting for up to 10 units with Rheem polypropylene header kit. Design allows a variety of room air intake configurations. 459W41 to 459W44 have a manifold featuring a factory-installed translator that can connect up to 20 units in a daisy chain via included cable. All models have 5-yr. limited manufacturer's warranty on heat exchanger and parts, 1-yr. limited manufacturer's warranty on labor. AHRI, CSA, and Energy Star Certified.

BtuH	Energy Factor	H (in.)	W (in.)	D (in.)	GPM @ 45F Rise	GPM @ 90°F Rise	Natural Gas Item No.	Liquid Propane Item No.
Indoor								
199,900	0.96	27 ½ in	18 ½ in	9 ¼ in	8.4	4.2	**459W37**	**459W39**
199,900	0.96	27 ½ in	18 ½ in	9 ¼ in	8.4	4.2	**459W41**	**459W43**
Outdoor								
199,900	0.96	27 ½ in	18 ½ in	9 ¼ in	8.4	4.2	**459W38**	**459W40**
199,900	0.96	27 ½ in	18 ½ in	9 ¼ in	8.4	4.2	**459W42**	**459W44**

Description	For Use With	Mfr. Model	Item No.
Accessories			
EZ Link Cable Connector (Connects 2 Units)	Rheem Tankless Water Heaters	RTG20040	**6FZN4**
Venting for Rheem Tankless Heaters*			
Horizontal Vent Termination Kit 3 in	Rheem Tankless Heaters	SP20286	**21HD68**

*** For additional venting options, call 1-800-GRAINGER (472-4643).***

Stainless Steel Gas Appliance Connectors

Dormont A WATTS Brand

Use with natural gas, LP gas-air mixtures, or LP gas systems. Additional lengths are available; call 1-800-GRAINGER (472-4643). Certified for indoor and outdoor use.

Connectors comply with ANSI Z21.24 CSA 6.10, ANSI Z21.75/CSA 6.27, and NY MEA #376-92M.

Note: Code requires that a manual shutoff valve be installed on the gas line ahead of the connector. A new connector must be used on all new or moved appliances (ANSI Z21.24).

18D830

1PX50

2GMF3

For Use With	Connection	Outside Dia. (in.)	24" Length Connector Flow (Btu)	24" Length Item No.	36" Length Connector Flow (Btu)	36" Length Item No.	48" Length Connector Flow (Btu)	48" Length Item No.	60" Length Connector Flow (Btu)	60" Length Item No.
10 Series										
Gas Log Sets and Space Heaters	⅜" MIP x ⅜" FIP*	⅜	—	—	33,400	**18D821**	—	—	—	—
LP Gas Air Mixtures, LP Gas Systems, Manufactured Gas Air Mixtures, Natural Gas Air Mixtures	½" MIP x ½" MIP	⅝	—	—	—	—	106,000	**3VU97**	93,200	**3VU98**
20 Series										
Gas Dryers and Gas Water Heaters	½" MIP x ½" FIP	½	85,000	**1PX46**	71,100	**1PX47**	60,500	**1PX48**	—	—
	½" MIP x ½" FIP*	½	—	—	—	—	60,500	**18D826**	53,200	**18D828**
	½" MIP x ⅜" FIP*	½	—	—	—	—	—	—	53,200	**18D829**
LP Gas Air Mixtures, LP Gas Systems, Manufactured Gas Air Mixtures, Natural Gas Air Mixtures	½" MIP x ⅜" FIP	½	—	—	—	—	60,500	**3VU94**	53,200	**3VU95**
	½" MIP x ½" FIP	½	—	—	—	—	—	—	53,200	**3VU93**
30 Series										
Furnace, Range	½" MIP x ½" FIP	⅝	150,000	**6CNC7**	125,000	**6CNC8**	—	—	—	—
	½" MIP x ½" MIP	⅝	150,000	**6CNC2**	—	—	—	—	—	—
	¾" MIP x ¾" MIP	⅝	150,000	**6CNA6**	—	—	—	—	—	—
Gas Ranges and Gas Furnaces	½" FIP x ½" FIP*	⅝	150,000	**18D830**	—	—	—	—	—	—
	½" FIP x ½" FIP	⅝	150,000	**1PX50**	125,000	**1PX51**	—	—	—	—
	½" MIP x ½" MIP*	⅝	—	—	125,000	**18D831**	—	—	93,200	**18D836**
	½" MIP x ½" MIP	⅝	—	—	125,000	**1PX49**	—	—	—	—
	½" MIP x ¾" FIP*	⅝	—	—	—	—	—	—	93,200	**18D837**
	¾" FIP x ¾" FIP*	⅝	—	—	—	—	106,000	**1PX53**	—	—
	¾" FIP x ¾" FIP*	⅝	—	—	—	—	106,000	**18D835**	—	—
40 Series										
Tankless Water Heaters and Boilers	¾" MIP x ¾" FIP	1	290,900	**2GMF2**	—	—	—	—	—	—
41 Series, PVC Coated										
Tankless Water Heaters and Boilers	¾" MIP x ¾" FIP	1	290,900	**2GMF3**	255,900	**2GMF4**	—	—	—	—

** Yellow safety shield coating.*

Food Service Gas Connectors and Kits, Quick Disconnects, and Fittings

Dormont A WATTS Brand

ANSI and CSA Certified.

Gas Connector Kits, 4XR86 and 4XR87—Include 48" hose with antimicrobial PVC coating, SnapFast quick disconnect, restraining cable, and mounting hardware. Comply with ANSI Z21.69/CSA-6.16, ANSI Z21.41/CSA 6.9, and ANSI Z22.1NFPA 54.

SafetyQuik Quick Disconnect Shut Off Valves—Gas connector cannot be disconnected until the gas flow is shut off or opened until the gas connector is reattached. Safety thermal shutoff stops the flow of gas when the internal temperature exceeds 350°F.

SnapFast Quick Disconnect Couplings—Safety thermal shutoff stops flow of gas when internal temperature exceeds 350°F.

SwivelMax Swivel Fittings—Allow complete 360° multiplane movement.

4XR87

4XR90

4XR96

Size	L (in.)	Btu Cap.	Mfr. Model	Item No.
Blue Hose Gas Connector Kits				
½"	48	68,000	1650BPQR48	**4XR86**
¾"	48	180,000	1675BPQR48	**4XR87**
Blue Hose Gas Connectors				
½"	48	106,000	1650BP48	**2GMF5**
¾"	48	225,000	1675BP48	**2GMF6**
1"	48	451,000	16100BP48	**18D838**
Blue Hose Gas Safety Kits				
½"	36	77,000	1650BPQR36	**18D839**
¾"	36	218,000	1675BPQR36	**18D840**
1"	36	379,000	16100BPQR36	**18D841**
1"	48	334,000	16100BPQR48	**18D842**
SafetyQuik Quick Disconnect Shut Off Valves				
½ in	—	11,000	CF-50	**4XR90**
¾ in	—	237,000	CF-75	**4XR91**
1 in	—	360,000	CF-100	**18D844**
SnapFast Quick Disconnect Coupling				
½ in	—	—	A50	**4XR88**
¾ in	—	—	A75	**4XR89**
1 in	—	—	A100	**18D843**
SwivelMax Swivel Fittings				
½ in	—	190,000	SM50	**4XR96**
¾ in	—	229,000	SM75	**4XR97**
1 in	—	457,000	SM100	**18D845**

FLEXCON INDUSTRIES The Reliable Source

Pressurized Expansion Tanks

- Max. pressure: 150 psi
- Max. temp.: 200°F
- Precharged to 40 psi; field adjustable

Diaphragm-style tanks are designed to control pressure buildup in open water systems. Steel tank construction with flexible double butyl diaphragm. NSF/IAPMO compliant.

3GVU8

Tank (gal.)	H (in.)	Dia. (in.)	Inlet/ Outlet NPT (in.)	Item No.
2.1	11³⁹⁄₆₄	8	¾ M	**3GVU8**
4.8	14½	11	¾ M	**3GVU9**
9	18²⁹⁄₃₂	12½	¾ M	**3GVX1**

Kissler

Braided Connectors

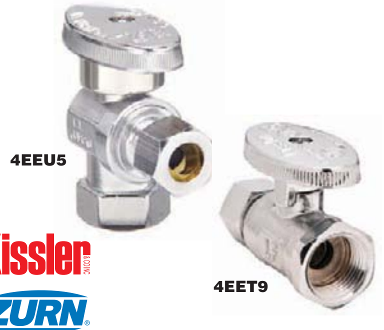
- Max. working pressure @ 70°F: 250 psi
- Temp. range: 40° to 180°F

Flexible, corrosion-resistant connectors install without tools, washers, rings, inserts, or sleeves; no cutting required. Stainless steel hose cover, PVC hose tube. Nuts and barb made from high-quality brass. Can be used for hot and cold potable water. All models are IAPMO Listed and NSF Certified.

45RC26

45RC42

Hose I.D.	Inlet Size (in.)	Inlet Type	Outlet (in.)	Outlet Type	Hose Length	Item No.
Faucet						
5⁄16 in	⅜	Compression	⅜	Compression	20 in	**45RC29**
5⁄16 in	½	FIP	½	FIP	20 in	**45RC26**
Ice Machine						
5⁄16 in	¼	Compression	¼	Compression	10 ft	**45RC22**
Toilet Supply Line						
5⁄16 in	⅜	Compression	⅞	FIP	9 in	**45RC24**
Washing Machine						
5⁄16 in	¾	FIP	¾	FIP	4 ft	**45RC25**
Water Heater						
5⁄16 in	¾	FIP	¾	FIP	12 in	**45RC42**
5⁄16 in	¾	FIP	¾	FIP	15 in	**45RC43**



4EEU5

4EET9

Water Supply Stop Valves

- Max. pressure: 125 psi
- Temp. range: 40° to 180°F

All models are IAPMO, UPC, and SA Listed; except 30PT08 to 30PT18 meet CSA B125.1, B125.2.

Inlet Size	Inlet Type	Outlet Size	Outlet Type†	Finish	Brand	Angle Supply Stop Item No.	Quarter-Turn Supply Stop Item No.
3-Way							
½"	FNPT	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EEU5**
⅝"	Comp.	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EEU6**
Angle							
¼"	Comp.	⅝ in	Comp.	Chrome	Kissler	**39AP74**	—
⅜"	FNPT	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EET4**
	IPS	⅜ in	IPS	Chrome	Zurn	**30PT13**	—
½"	CPVC	¼ in	Comp.	Chrome	Kissler	**39AP78**	—
	CPVC	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EET8**
	CTS	⅜ in	CTS	Chrome	Zurn	**30PT10**	—
	CTS	⅜ in	CTS	Chrome	Zurn	**30PT15**	—
	CTS	⅜ in	CTS	Chrome	Zurn	**30PT16**	—
	FIP	¼ in	Comp.	Chrome	Kissler	**39AP76**	—
	FNPT	½ in	Slip	Chrome Plated	Kissler	—	**4EET5**
	PEX	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EET7**
	Sweat	⅜ in	Sweat	Chrome	Zurn	**30PT17**	—
⅝"	Comp.	⅜ in	Comp.	Chrome	Kissler	**39AP79**	—
	Comp.	⅜ in	Comp.	Chrome Plated	—	—	**5LYF3**
	Comp.	½ in	Slip	Chrome Plated	Kissler	—	**4EET6**
Straight							
⅜"	FNPT	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EET9**
½"	CPVC	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EEU4**
	FNPT	½ in	Slip	Chrome Plated	Kissler	—	**4EEU1**
	NPT	⅜ in	Comp.	Chrome Plated	—	—	**401K23**
	PEX	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EEU3**
	Sweat	⅜ in	Comp.	Chrome Plated	Kissler	—	**4EEU2**

† Comp. = compression fitting.

Single 1PX54

Single w/ Bottle Filler 39AM86

Two-Level 1PX55

Two-Level w/ Bottle Filler 39AM87

Standalone Bottle Filler 61UJ01

On-Wall Drinking Fountains & Bottle Fillers

- ADA compliant
- 115V AC
- ⅜" OD inlet

Fountains and Bottle Fillers provide single- or bi-level access to water. These fountains mount at user-desired heights and are available separately or combined with bottle fillers for indoor use. **Standalone Bottle Fillers** dispense water into refillable bottles and cups. These bottle fillers incorporate a narrower design to fit on walls with limited depth.

Chilling Capacity	Water Filter Included	Color	Overall Height	Overall Width	Overall Depth	Mfr. Model	Brand	Item No.
Single Drinking Fountains								
Push Bar Fountain								
8 gph @ 50°F	Non-Filtered	Gray	19⅞"	18⅜"	19"	EZS8L	Elkay	**1PX54**
	Non-Filtered	Gray	20⅝"	18⅛"	18⅝"	EMABF8L	Elkay	**2KLF1**
	Non-Filtered	Gray	23⅞"	18"	18¾"	EHFSA8L1Z	Elkay	**1MCE5**
	Non-Filtered	Gray	24⅜"	20½"	19¾"	HTVZ8PV-NF	Halsey Taylor	**46FT82**
	Non-Filtered	Gray	26⅜"	20⅜"	20¼"	HAC8PV-NF	Halsey Taylor	**2KLD6**
	Non-Filtered	Stainless Steel	19⅞"	18⅜"	19"	EZS8S	Elkay	**34J988**
	Non-Filtered	Stainless Steel	26⅜"	20⅜"	20¼"	HAC8SS-NF	Halsey Taylor	**1CVX1**
	Non-Filtered	Tan	18⅞"	17⅝"	18⅝"	PG8AC	Oasis	**46KL46**
Touchless Fountain								
8 gph @ 50°F	Filtered	Gray	19⅞"	18⅜"	19"	LZO8L	Elkay	**2KLF4**
	Filtered	Stainless Steel	19⅞"	18⅜"	19"	LZO8S	Elkay	**2KLF5**
Single Drinking Fountains with Bottle Fillers								
Push Bar Fountain, Touchless Bottle Filler								
8 gph @ 50°F	Filtered	Gray	39½"	18⅜"	19"	LZS8WSLP	Elkay	**39AM86**
	Filtered	Gray	39¾"	17⅞"	18½"	HTHB-HAC8PV-WF	Halsey Taylor	**6XUZ0**
	Filtered	Stainless Steel	39½"	18⅜"	19"	LZS8WSSP	Elkay	**39AM89**
	Filtered	Stainless Steel	39¾"	17⅞"	18½"	HTHB-HAC8SS-WF	Halsey Taylor	**6XUZ1**
	Filtered	Tan	37⅞"	18⅝"	18⅝"	PG8EBF	Oasis	**49AH87**
	Non-Filtered	Stainless Steel	39⅛"	18⅜"	19"	EZS8WSSK	Elkay	**28PP51**
	Non-Filtered	Stainless Steel	39¾"	18⅛"	18⅝"	VRCGRN8WSK	Elkay	**29JA53**
Non-Refrigerated	Filtered	Gray	39⅛"	18⅜"	19"	LZSDWSLK	Elkay	**34K038**
Two-Level Drinking Fountains								
Push Bar Fountain								
8 gph @ 50°F	Non-Filtered	Gray	25⅜"	36¾"	19"	EZSTL8LC	Elkay	**1PX55**
	Non-Filtered	Gray	38"	21"	21"	HAC8BLPV-NF	Halsey Taylor	**2KLD8**
	Non-Filtered	Stainless Steel	25⅜"	36¾"	19"	EZSTL8SC	Elkay	**34J990**
	Non-Filtered	Stainless Steel	38"	21"	21"	HAC8BLSS-NF	Halsey Taylor	**2KLD7**
	Non-Filtered	Tan	24⅞"	35¼"	18⅝"	PG8ACSL	Oasis	**46KL47**
Two-Level Drinking Fountains with Bottle Fillers								
Push Bar Fountain, Touchless Bottle Filler								
8 gph @ 50°F	Filtered	Gray	39½"	36¾"	19"	LZSTL8WSLP	Elkay	**39AM87**
	Filtered	Stainless Steel	39½"	36¾"	19"	LZSTL8WSSP	Elkay	**39AM88**
	Non-Filtered	Gray	39⅛"	36¾"	19"	EZSTL8WSLK	Elkay	**34J991**
	Non-Filtered	Gray	46¼"	36¼"	18⅝"	HTHB-HAC8BLPV-NF	Halsey Taylor	**6XUZ2**
	Non-Filtered	Stainless Steel	46¼"	36¼"	18⅝"	HTHB-HAC8BLSS-NF	Halsey Taylor	**6XUZ3**
Standalone Bottle Fillers								
Touchless Bottle Filler								
8 gph @ 50°F	Filtered	Stainless Steel	41¼"	17⅞"	11⅞"	LZ8WSSSMC	Elkay	**61UJ02**
	Non-Filtered	Stainless Steel	41¼"	17⅞"	11⅞"	EZ8WSSSMC	Elkay	**61UJ01**

Single
34J941

Two-Level
2KLE3

Standalone
5LXY8

ELKAY Halsey Taylor

In-Wall Drinking Fountains & Bottle Fillers

- Indoor use
- 115V AC

Single Drinking Fountains are self-contained and mounted fully or semi-recessed in walls with limited depth.

Two-Level Drinking Fountain is fully recessed in the wall and offers bi-level stations to accommodate users of varying height.

Standalone Bottle Fillers are fully recessed within walls, and are ideal for narrow walkways and small spaces. Bottle fillers reduce single-use plastic bottles.

Chilling Capacity	Water Filter Included	Color	Overall Height	Overall Width	Overall Depth	ADA Compliant	Mfr. Model	Brand	Item No.
Single Drinking Fountains									
Push Bar Fountain									
8 gph @ 50°F	Non-Filtered	Silver	54¼"	19"	11¾"	No	EFRC8K	Elkay	**34J941**
Non-Refrigerated	Non-Filtered	Silver	23⅞"	18"	9½"	No	EDFP19C	Elkay	**34J924**
Two-Level Drinking Fountain									
Push Bar Fountain									
8 gph @ 50°F	Non-Filtered	Silver	40⅞"	38½"	18"	Yes	8634084883	Halsey Taylor	**2KLE3**
Standalone Bottle Fillers									
Touchless Bottle Filler									
1.5 gph @ 50°F	Filtered	Black	20½"	18"	5⅛"	Yes	LBWD06BKK	Elkay	**54ZH56**
	Filtered	White	20½"	18"	5⅛"	Yes	LBWD06WHK	Elkay	**54ZH57**
8 gph @ 50°F	Filtered	Silver	40⅞"	19¾"	3½"	Yes	LZWSM8K	Elkay	**5LXY8**
Non-Refrigerated	Filtered	Black	28"	18"	5⅛"	Yes	LBWD00BKC	Elkay	**54ZH54**
	Filtered	Silver	40⅞"	19¾"	3½"	Yes	LZWSMDK	Elkay	**5LXY9**
	Filtered	White	28"	18"	5⅛"	Yes	LBWD00WHC	Elkay	**54ZH55**

Hand-Operated
34K001

Hand-Operated w/ Hot Water Glass Filler Spout
4CE97

Foot-Operated
3EMY8

Foot-Operated w/ Glass Filler Spout
3EMZ1

Sensor-Operated Bottle Filler
787CW5

Freestanding Drinking Fountains & Bottle Filler

ELKAY Halsey Taylor

- Indoor use
- Non-filtered
- 115V AC

Units are mounted directly to the floor and do not require a wall or other vertical surface for installation, and are electric corded. They are commonly installed next to a wall to allow for easy integration into existing plumbing. Top push button actuation, except **49T427** is push button on bubbler. **3EMY7** includes back panel for floor-standing installation. **4CE97** features a glass filler spout for filling water containers with hot water and is activated by a tap-style lever. **3EMZ1** includes a hands-free glass filler. **787CW5** includes water filter and is ADA compliant.

Cooling Cap.	Color	Overall Height	Overall Width	Overall Depth	Mfr. Model	Brand	Item No.
Hand-Operated Drinking Fountains							
3 gph @ 50°F	Gray	38"	12"	12"	FD7003L1Z	Elkay	**34K001**
	Gray	38"	12"	12"	8205020041	Halsey Taylor	**2W154**
5 gph @ 50°F	Gray	38"	12"	12"	FD7005L1Z	Elkay	**34K003**
	Gray	38"	12"	12"	8205050041	Halsey Taylor	**2W155**
8 gph @ 50°F	Gray	41½"	18"	14½"	EFA8L1Z	Elkay	**49T435**
	Gray	40"	16"	13¼"	8226080041	Halsey Taylor	**49T427**
10 gph @ 50°F	Gray	38"	12"	12"	8205100041	Halsey Taylor	**2W156**
14 gph @ 50°F	Gray	41½"	18"	14½"	EFA14L1Z	Elkay	**49T428**
	Gray	40"	16"	13¼"	8226140041	Halsey Taylor	**49T426**
	Stainless Steel	40"	16"	13¼"	8226143383	Halsey Taylor	**4XR82**
16 gph @ 50°F	Gray	41½"	18"	14½"	EFW16L1Z	Elkay	**4CE98**
20 gph @ 50°F	Gray	41½"	18"	14½"	EFA20LK1Y	Elkay	**3EMY7**
Hand-Operated Drinking Fountain with Glass Filler Spout							
8 gph @ 50°F	Gray	41½"	18"	14½"	EFHA8L1Z	Elkay	**4CE97**
Foot-Operated Drinking Fountains							
8 gph @ 50°F	Gray	41½"	18"	14½"	EFA8LP1Z	Elkay	**3EMY8**
14 gph @ 50°F	Gray	41½"	18"	14½"	EFA14LP1Z	Elkay	**3EMY9**
Foot-Operated Drinking Fountain with Glass Filler Spout							
8 gph @ 50°F	Gray	41½"	18"	14½"	EFA8L1110P	Elkay	**3EMZ1**
Sensor-Operated Bottle Filler							
8 gph @ 50°F	Stainless Steel	48"	15"	21½"	DSSBF8S	Elkay	**787CW5**

Outdoor Drinking Fountains & Bottle Fillers

ELKAY Halsey Taylor

- 115V AC (electric corded models)

Drinking fountains and bottle fillers are built to withstand tough weather conditions. The stainless steel exterior are ideal for high-traffic areas, such as parks, pool decks, golf courses, schools, and work campuses. They are available for outdoor wall-mounting or as freestanding units with single or two-level access to accommodate users of varying height. **33KJ65** two-level fountain with bottle filler is offset to allow multiple users to drink or fill water bottles simultaneously. An additional pet fountain features slow drainage for easy drinking.

Chilling Capacity	Color	Overall Height	Overall Width	Overall Depth	ADA Compliant	Operation	Mfr. Model	Brand	Item No.
On-Wall Single Drinking Fountains									
Electric Corded									
8 gph @ 50°F	Stainless Steel	20⅝"	18"	18½"	Yes	Front Button	VRC8S	Elkay	**2KLF3**
	Stainless Steel	20⅝"	18⅛"	18⅝"	Yes	Front Button	VRCGRN8	Elkay	**3EMZ3**
	Stainless Steel	26⅜"	20⅜"	20¼"	Yes	Push Button	8250080083	Halsey Taylor	**2KLD9**
No Electrical Required									
Non-Refrigerated	Green	8"	10"	19⅛"	Yes	Front Button	LK4405EVG	Elkay	**33KJ63**
	Stainless Steel	6½"	12⅛"	18¾"	Yes	Push Button	EDFP214C	Elkay	**34J925**
	Stainless Steel	9¾"	12⅛"	13¾"	No	Push Button	7433003783	Halsey Taylor	**4XR85**
	Stainless Steel	9¾"	12⅛"	18¾"	Yes	Push Button	7433003683	Halsey Taylor	**4XR84**
	Stainless Steel	12¾"	12"	11"	No	Lever Handle	74045405001	Halsey Taylor	**2KLE4**
On-Wall Two-Level Drinking Fountains									
Electric Corded									
8 gph @ 50°F	Stainless Steel	27⅛"	36⅜"	18⅝"	Yes	Front Button	VRCTL8SC	Elkay	**2KLE9**
	Stainless Steel	38"	21"	21"	Yes	Push Button	8751080083	Halsey Taylor	**2KLE1**
On-Wall Single Bottle Filler									
No Electrical Required									
Non-Refrigerated	Green	32"	10"	19⅛"	Yes	Front Button	LK4405BFEVG	Elkay	**33KJ66**
Freestanding Single Drinking Fountains									
No Electrical Required									
Non-Refrigerated	Green	37½"	14"	26"	Yes	Push Button	74047102000	Halsey Taylor	**4XR74**
	Green	39½"	14"	12"	No	Push Button	74047152000	Halsey Taylor	**4XR75**
Freestanding Two-Level Drinking Fountains									
No Electrical Required									
Non-Refrigerated	Green	40⅜"	14"	31"	Yes	Front Button	LK4420EVG	Elkay	**33KJ64**
	Green	43½"	26"	14"	Yes	Push Button	74047202000	Halsey Taylor	**4XR76**
Freestanding Two-Level with Bottle Filler									
No Electrical Required									
Non-Refrigerated	Green	64"	26"	31"	Yes	Front Button	LK4420BF1UDBEVG	Elkay	**33KJ65**

On-Wall Single
2KLF3

On-Wall Two-Level
2KLE9

On-Wall Single Bottle Filler
33KJ66

Freestanding Single
4XR75

Freestanding Two-Level
33KJ64

Freestanding Two-Level w/ Bottle Filler
33KJ65

Bubbler
5JC22

Gooseneck Glass Filler Kit
4XR77

Sensor Activation Service Kit
29JA50

Upper Shroud Assembly
5WNT1

Water Filter
11U265

ELKAY Halsey Taylor

Replacement Parts for Drinking Fountains & Bottle Fillers

Replacement Parts—Help maintain the performance and longevity of drinking fountains and bottle fillers. They are used during the installation, maintenance, and repair of these units.

Bottle Filler Water Filters—Quick-disconnect filters reduce chlorine taste and odor, lead, particulates, sediment and more.

Product Type	Compatible Manufacturer Part Number	Mfr. Model	Brand	Item No.
Water Filters & Filter Mounting Hardware				
Filtration System	LZS8WSLK, LZS8WSSK, LZS8WSVRLK, LZS8WSVRSK, LZSDWSLK, LZSDWSVRLK, LZSTL8WSLK, LZSTL8WSSK, LZSTL8WSVRLK, LZWSM8K, LZWSM8PK, LZWSRK	EWF3000	Elkay	**34J978**
Tubing, Fittings, & Valves				
Aerator Kit	EMABFWS-RF, EZS8WSSK, EZSTL8WSLK, HTHB-HAC-RF, HTHB-HAC8BLPV-NF, HTHB-HAC8BLSS-NF, HTHB-HAC8PV-WF, HTHB-HAC8SS-WF, LZS8WSLK, LZS8WSSK, LZS8WSVRLK, LZS8WSVRSK, LZSDWSLK, LZSDWSVRLK, LZSTL8WSLK, LZSTL8WSSK, LZSTL8WSVRLK, LZSTL8WSVRSK, LZSTLR8WSLK, LZWSM8K, LZWSM8PK, LZWSMDK, LZWSRK, VRCGRN8WSK	98546C	Elkay	**42EJ76**
Cartridge Regulator	—	60290C	Elkay	**3EMZ4**
Regulator Kit	EFA, EFHA, EFW, FD, HEW, HRF, HVR, LFAE, LFDE, OVL, S1000, S300, S500, VRC, WM	98731C	Elkay	**15W924**
	EHFSA, EMABF, HAC, HOF, HTHB-HAC, HTV, LMABF, SCWT	98732C	Elkay	**15W925**
	EDFP214FPK	98733C	Elkay	**15W926**
Solenoid Valve	EZ/HTV	35981C	Elkay	**1WYC6**
	EZ/HTV	98466C	Elkay	**5WNU8**
Solenoid Valve Assembly Service Kit	EZS(TL)DWS, EZWS, HTHB-HAC, HTHB-HAC models, HTHB-HACEZS(TL)8WS, LZS(TL)8WS, LZS(TL)DWS, LZWS	98545C	Elkay	**29JA51**
Bubblers & Glass Filler Spouts				
Drinking Fountain Bubbler	—	92715c	Elkay	**1WYC8**
	—	LK1141A	Elkay	**5JC22**
	5405, 7020, 7030	45703C	Elkay	**5WNP8**
	—	98533C	Halsey Taylor	**5WMU7**
	—	98501C	Elkay	**34J897**
Gooseneck Glass Filler Kit	—	96852CA	Halsey Taylor	**4XR77**
Drains & Strainers				
Strainer	BFMLR, EDFP19C, EDFP214, EDFP217, EDFPB, EFA, EFHA, EHFSA, EMABF, ESWA, EWA, EWCA, EZ, FD, HAC, HBW, HEW, HOF, HRF, HTHB-HAC, HVR, LFAE, LFDE, LMABF, LWAE, LZ, OVL-II, SCWT, SJ, SW, VRC, WC Models, WM	55996C	Elkay	**2XJ52**
Electrical Components & Wiring				
Bottle Filler Electrical Kit	EMABFWS-RF, EZS8WSSK, EZSTL8WSLK, HTHB-HAC-RF, HTHB-HAC8BLPV-NF, HTHB-HAC8BLSS-NF, HTHB-HAC8PV-WF, HTHB-HAC8SS-WF, LZS8WSLK, LZS8WSSK, LZS8WSVRLK, LZS8WSVRSK, LZSDWSLK, LZSDWSVRLK, LZSTL8WSLK, LZSTL8WSSK, LZSTL8WSVRLK, LZSTL8WSVRSK, LZSTLR8WSLK, LZWSM8K, LZWSM8PK, LZWSMDK, LZWSRK, VRCGRN8WSK	98543C	Elkay	**42EJ75**
Sensor Activation Service Kit	EZS(TL)8WS, EZS(TL)DWS, EZWS, HTHB-HAC, LZS(TL)8WS, LZS(TL)DWS, LZWS	98544C	Elkay	**29JA50**
Push Bars & Push Buttons				
Pushbar Activations	EZS Model, LZS Model	98734C	Elkay	**15W927**
Push-Button Assembly	EFA, EFHA, EFW, EHFSA, EMABF, EZ, FD, HAC, HEW, HOF, HRF, HTV, HVR, LFAE, LMABF, LZ, OVL, S1000, S300, S500, VRC, WM	98536C	Elkay	**5WNV5**
Wall Panels & Framing				
Upper Shroud Assembly	EZS, LZS	56229C	Elkay	**5WNT1**

Compatible Manufacturer Part Number	Mfr. Model	Brand	Item No.
Bottle Filler Water Filters			
EWF172	51299C	Elkay	**2XJ47**
HTHB-HAC-RF	55898C	Halsey Taylor	**34J832**
HWF 172	55897C	Halsey Taylor	**5WMU5**
LZS8WSLK, LZSTL8WSLK, LZS8WSLP, LZS8WSSK, LZSTL8WSSK	51300C_12PK	Elkay	**56FK57**
LZSTL8WSLK, LZS8WSLP, LZS8WSSK, LZS8WSLK, LZSTL8WSSK	51300C	Elkay	**11U265**
WC models, EDFP217, HEW, HTHB-HAC, LFAE, FD, OVL-II, ESWA, EFHA, EDFPB, LZ, HOF, HRF, SCWT, EZ, HBW, EWCA, LFDE, SW, EFA, BFMLR, EDFP214, HVR, EHFSA, LWAE, LMABF, SJ, VRC, WM, HAC, EMABF, EDFP19C, EWA	EWF172	Elkay	**4YK10**

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Drinking Fountain Bottle Filler Addition Retrofit Kits

- ADA compliant

Non-refrigerated kits transform manual drinking fountains into touchless water fountains or add bottle filler capacity to standard fountains.

Touchless, Oasis
49AH85

Touchless, Elkay
5WNV7

Overall Height	Overall Width	Overall Depth	Filter Status Indicator	For Use With	Mfr. Model	Brand	Item No.
Touchless Sensor							
16"	8"	4½"	Yes	Oasis Water Coolers	PWEBF	Oasis	**49AH85**
18⅞"	3⅝"	17⅞"	Yes	HAC Model Water Coolers	HTHB-HAC-RF	Halsey Taylor	**6XUY8**
	3⅝"	17⅞"	No	Elkay EZ Drinking Fountains	EZWSRK	Elkay	**56UM81**
	17⅞"	3⅝"	Yes	115V AC Pushbar-Activated EZ Style Water Coolers	LZWSRK	Elkay	**5WNV7**
	17⅞"	3⅝"	No	Elkay EMABF	EMABFWS-RF	Elkay	**31HR87**
Push Button							
16"	8"	4½"	Yes	Oasis Water Coolers	PWSBF	Oasis	**49AH86**

Water Coolers & Dispensers

- 115V AC, electric corded
- Plumbed units: ¼" inlet pipe size
- Still water type

Bottled Water Dispensers—Freestanding dispensers hold pre-filled water bottles to deliver cold, hot, or room temperature water.

Plumbed Water Dispensers—Connect directly to existing water lines for on-demand drinking water.

Countertop Plumbed Water Dispensers—Dispensers distribute water from a single supply point with a smaller footprint for table or countertop use. **437T21** and **437T22** dispense sparkling/still water.

Replacement Parts—Used to help with the installation, maintenance, and repair of these units.

Bottled 29NU04 (Water bottle not included)

Plumbed 34TG64

Plumbed w/ Filtration 39AP24

Countertop Plumbed 39AP28

Dispenser Spout 33KL05

Water Temperature Types	Housing Color	Housing Material	Water Bottle Loading Location	Overall Height	Overall Width	Overall Depth	Full Load Current	Mfr. Model	Brand	Item No.
Freestanding Bottled Water Dispensers, Bottle Size: 3 gal; 5 gal										
Cold, Hot	Black	Plastic	Standard Top	38⅜"	12½"	12½"	5.5 A	BPO1SHS	Oasis	**29NU03**
	Black	Stainless Steel	Standard Top	38⅛"	12"	12½"	5.5 A	BTSA1SHS	Oasis	**29NU05**
	White	Plastic	Standard Top	38⅜"	12½"	12½"	5.5 A	BPO1SHS	Oasis	**29NU02**
Cold, Hot, Room Temperature	Black	Polymer	Ergonomic Bottom	43½"	12¾"	14"	5.5 A	BAEB1SHSK	Oasis	**447J85**
Cold, Room Temperature	Black	Plastic	Standard Top	38⅜"	12½"	12½"	1.2 A	BPD1SK	Oasis	**29NU01**
	Black	Stainless Steel	Standard Top	38⅛"	12"	12½"	1.2 A	BTSA1SK	Oasis	**29NU04**
	White	Plastic	Standard Top	38⅜"	12½"	12½"	1.2 A	BPD1SK	Oasis	**29NT99**
	White	Polycarbonate	Standard Top	38¾"	13⅛"	13⅛"	1.2 A	B1RRK	Oasis	**29NU06**

Water Temperature Types	Housing Color	Housing Material	Overall Height	Overall Width	Overall Depth	Full Load Current	Mfr. Model	Brand	Item No.
Freestanding Plumbed Water Dispensers									
Cold, Hot	Black	Polyethylene	40½"	12¾"	13"	5.5 A	POUD1SHS	Oasis	**45DL39**
	Black, Silver	Stainless Steel	43¼"	12"	12⅜"	5.5 A	PSWSA1SHS	Oasis	**34TG64**
	White	Polyethylene	40½"	12¾"	13"	1.2 A	POUD1SK	Oasis	**34TG61**
	White	Polyethylene	40½"	12¾"	13"	5.5 A	POUD1SHS	Oasis	**34TG62**
Freestanding Plumbed Water Dispensers with Filtration									
Cold, Hot	Black	ABS, Metal	49¾"	13"	15½"	3.8 A	BluV-MP	Purlogix	**39AP25**
	Gray	Carbon Fiber	45⅜"	13¼"	17¾"	5.5 A	POU2LRHK	Oasis	**39AN03**
	White	ABS, Metal	49¾"	13"	15½"	3.8 A	BluV-MPW	Purlogix	**39AP24**
Countertop Plumbed Water Dispensers									
Cold, Hot	Gray	ABS, Metal	17¼"	13"	14⅝"	4 A	IPC2U	Purlogix	**39AP28**
Cold, Hot, Room Temperature	Black, Gray	Polymer	16⅞"	14⅜"	13¼"	5.5 A	POU1ACTHSK	Oasis	**447J84**
Cold, Room Temperature	Black, Gray	Stainless Steel	16½"	10¼"	19¼"	2 A	DSBSH130UVPC	Elkay	**437T22**
	Black, Gray	Stainless Steel	19¼"	10¼"	19¼"	2 A	DSBS130UVPC	Elkay	**437T21**

Compatible Manufacturer/Grainger Part Number	Mfr. Model	Brand	Item No.
Replacement Parts for Water Coolers & Dispensers			
Dispensing Spouts			
500088, 501286	133552-002	Oasis	**33KL11**
	033552-001	Oasis	**33KL12**
	033552-003	Oasis	**33KL13**
503994C, 504006C, 504008C	032135-104	Oasis	**33KL05**
	032135-106	Oasis	**33KL06**
	032135-114	Oasis	**33KL07**
504238C, 504540C, 504558C, 504559C	032135-121	Oasis	**33KL08**
	132135-122	Oasis	**33KL09**
	132135-123	Oasis	**33KL10**

Compatible Manufacturer/Grainger Part Number	Mfr. Model	Brand	Item No.
Cup Dispensers			
BA1RRPHS, BPD1SHS, BPD1SK, BPO1SHS,	038820-001	Oasis	**33KL19**
POU1CCTHS, POUD1SHS, POUD1SK, PSWSA1SHS	038820-002	Oasis	**33KL20**
Water Guards			
BluV-MP, BluV-MPW	PCM0001A	Purlogix	**2YMY8**
BPD1SHS, BPD1SK, BPO1SHS	033964-021	Oasis	**33KL21**
	033964-022	Oasis	**33KL22**
Under-Sink Quick Connect Water Filters			
39AP28	ENIN1100-0008	Purlogix	**39AP23**
39AP24, 39AP25	PL1100-0005	Purlogix	**39AP26**
39AP28	ENIN1100-0001	Purlogix	**39AP27**

Remote Water Chillers

- Galvanized steel housing
- 115V AC

Water chillers convert non-refrigerated drinking fountains, bottle fillers, and water dispensers into chilled drinking water. These fully enclosed units are indoor rated, available in multiple sizes to serve 1-3 drinking fountains, and install remotely under sinks, counters, or inside walls.

Cooling Cap.	Overall Height	Overall Width	Overall Depth	Inlet/Outlet Tube Outside Diameter	Mfr. Model	Item No.
One Station Water Chillers						
1.5 gph @ 50°F	14"	17"	7"	¼"	ERS11Y	**4YK08**
Two Station Water Chillers						
8 gph @ 50°F	17⅜"	13¼"	10¼"	¼"	ECH8	**1PTJ5**
10 gph @ 50°F	22"	19½"	7⅞"	⅜"	ER101Y	**3H047**
Three Station Water Chillers						
19 gph @ 50°F	25¾"	23"	10¼"	⅜"	ER191	**3EMZ6**

One Station 4YK08

Two Station 1PTJ5

Three Station 3EMZ6

Undersink Pipe & Valve Covers

- Fit most undersink piping
- Easy installation—no tools required
- ADA compliant (except 447P05, 447P06 & 447P07)

Use to conceal piping, electronic faucet connections, mixing valves, and trap primers. Easy-to-clean molded vinyl resists impact, stains, and chemicals.

Description	Pipe Dia. - Drains	No. of Pieces	Material of Construction	Mfr. Model	Brand	Item No.
Pipe and Valve Covers						
Silver						
Floor and Ceiling Plate	¾ in	1	ABS	25745	—	**447P06**
	⅝ in	1	ABS	25755	—	**447P07**
Sure Grip Flange	½ in	1	ABS	25703	—	**447P05**
White						
Angle Valve And Supply Cover	1 ¼ in, 1 ½ in	1	Vinyl	82188	Truebro	**1ATD1**
P Trap And Two Valve Covers	1 ¼ in, 1 ½ in	3	Vinyl	82193	Truebro	**1ATB9**
Pipe Covers						
White						
Basin Guard	—	1	PVC	82234	Truebro	**15W938**
Lavatory Enclosure	—	1	Plastic	Z6900-VG	Zurn	**22LU09**
Lavatory Shield	—	1	PVC	82202	Truebro	**1ATD4**
Offset Pipe Cover	1 ¼ in, 1 ½ in	1	Vinyl	82195	Truebro	**1ATD3**
Offset Pipe Protector	2 ¼ in	1	PVC	Z8945-NT	Zurn	**48RT74**
P-Trap Pipe Cover	1 ¼ in, 1 ½ in	1	Vinyl	82190	Truebro	**1ATD2**
	1 ¼ in, 1 ½ in	4	PVC	82194	Truebro	**52XF22**
Trap Protector	3 ¼ in	1	PVC	Z8943-NT	Zurn	**48RT72**
	3 ¼ in	1	PVC	Z8946-NT	Zurn	**48RT78**
Undersink Pipe Guard	2 ¼ in	3	PVC	82525	Truebro	**15W937**

P Trap & Two Valve Covers 1ATB9

Lavatory Shield 1ATD4

Lavatory Enclosure 22LU09

Trap Protector 48RT72

1PNK9 1PNK7 1PNX5

Lavatory/Kitchen P-Traps, S-Traps, and J-Bends

Description	Pipe Dia. - Drains	L	Connection	Brass, 17 Ga. Item No.	Brass, 22 Ga. Item No.	White/Plastic, Polypropylene Item No.
Kitchen						
J-Bend	1 ½"	5½"	Slip	1PNK4	1PNL9	—
J-Bend	1 ½"	5½"	Slip x FNPT	1PNK5	489W07	—
J-Bend	1 ½"	5½"	Slip x FNPT	—	489W15	—
J-Bend	1 ½"	5¾"	Slip x FNPT	489W21	—	—
J-Bend, w/Clenaout	1 ½"	5¾"	Slip	1PNK7	—	—
P-Trap	1 ½"	11½"	Slip	1PNL1	1PNN5	—
P-Trap	1 ½"	11¾"	Slip	—	—	1PNX6
P-Trap w/Clenaout, Slip Nuts And Washer	1 ½"	11½"	Slip	1PNL3	—	—
S-Trap	1 ½"	20"	Slip	489W06	—	—
Lavatory						
J-Bend	1 ¼"	5⅛"	Slip	1PNK3	1PNL8	—
J-Bend, w/Clenaout	1 ¼"	5¼"	Slip	1PNK6	—	—
P-Trap	1 ¼"	11½"	Slip	1PNK9	1PNN4	—
P-Trap	1 ¼"	11¾"	Slip	—	—	1PNX5
P-Trap, w/Clenaout	1 ¼"	11½"	Slip	1PNL2	—	—
S-Trap	1 ½"	19½"	Slip	—	—	1PNX9
S-Trap	1 ¼"	19½"	Slip	489V99	—	—
S-Trap	1 ¼"	20"	Slip	—	489W10	—
Lavatory/Kitchen						
P-Trap	1 ½" x 1 ¼"	—	Slip	4FEX2	4FEW1	—
P-Trap	1 ½" x 1 ¼"	11¾"	Slip	—	—	1PNX7
P-Trap, Flexible	1 ½"	12"	Slip	—	—	1PPC5
Repair Trap	1 ¼", 1 ½"	—	Slip	—	1PNP1	—

ZURN

Premium Basket Strainers

4WDC5

- Stainless steel basket and strainer

Threaded connection. Extra-long shank.

Item	Pipe Dia. - Drains	L (in.)	Item No.
Basket Strainer L/TPC Long Shank	1 ½ in	3½	4WDC5
Basket Strainer L/TPC Cant Skip Lock Nut	1 ½ in	2⁷⁄₁₆	4WDC6

ZURN

Cast-Brass P.O. Plugs

4WDF2

- 17-ga. cast-brass

Slip joint connection. Include cast-brass locknut and tailpiece. 4WDF4 includes cast-brass elbow.

Item	Includes	Pipe Dia. - Drains	L (in.)	Item No.
Pull Out Plug	Cast Brass Locknut and Tailpiece	1 ¼ in	5	4WDF1
		1 ¼ in	6	4WDF2
		1 ¼ in	8	4WDF3
		1 ½ in	6	4WDE7
Lavatory Strainer	Cast Brass Elbow	1 ¼ in	8¾	4WDF4

Oatey® TEST-TITE IPS CORPORATION ZURN

Cleanout Repair Plugs

Test-Tite, Pipe Plug, Plastic 3EJN7

Hold as much as 50 ft. of backpressure. Test-Tite models are for use in cast-iron fittings where threads have been damaged.

Nom. Size	Oatey, Cleanout Plug, Recessed Head, Brass Item No.	Oatey, Cleanout Plug, Brass Item No.	Zurn, Countersunk Cleanout Plug, ABS Plastic Item No.	Test-Tite, Pipe Plug, Plastic Item No.
1 ½ in	3NWD1	3NWC4	4WDN1	—
2 in	3NWD2	3NWC5	4WDN4	3EJN7
2 ½ in	3NWD3	3NWC6	4WDN2	—
3 in	3NWU8	3NWC7	4WDN5	3EJN8
3 ½ in	3NWU9	3NWC8	4WDN3	3EJN9
4 in	3NWX1	3NWC9	4WDN6	3EJP1

1PPA2 1PNR6 1PNT2

Lavatory/Kitchen Extensions, Couplings, Tees, and Tailpieces

Item	Connection	Pipe Dia. - Drains	L	Chrome/Brass - 20 Ga. Item No.	Chrome/Brass - 22 Ga. Item No.	White/Polypropylene Item No.
45 Degree, Lavatory/Kitchen						
Elbow	Slip	1 ¼", 1 ½"	4"	—	—	1PPA2
	Slip	1 ¼", 1 ½"	4½"	—	1PNU2	—
90 Degree, Lavatory/Kitchen						
Elbow	Slip	1 ¼", 1 ½"	3"	—	—	1PPA1
	Slip	1 ¼", 1 ½"	4"	—	1PNP8	—
Dishwasher						
Tailpiece	Direct Connection x Slip	1 ½"	8"	1PNV1	—	—
	Slip x Barb	1 ½"	8"	—	—	1PPA9
Kitchen						
Center Outlet	Direct Connection	1 ½"	16"	—	489W03	—
Center Outlet	Direct Connection	1 ½"	16"	—	1PNR7	—
Waste Tee	Direct Connection or Slip	1 ½"	16"	—	—	1PNY4
Dishwasher Tailpiece	Slip x Barb	1 ½"	8⅛"	—	—	4FEY8
End Outlet Waste Tee	Direct Connection or Slip	1 ½"	16"	—	—	1PNY2
	Slip	1 ½"	6¼"	—	1PNP3	—
	Slip	1 ½"	16"	—	1PNR6	—
Extension	MNPT x MNPT	1 ½"	12"	—	489W24	—
	Slip	1 ½"	6"	—	1PNU1	4FEY5
	Slip	1 ½"	8"	—	—	1PNZ5
	Slip	1 ½"	12"	—	1PNP6	1PNZ6
Tailpiece	Flanged	1 ½"	4"	—	—	1PNZ1
	Flanged	1 ½"	6"	—	1PNR9	4FEY4
	Flanged	1 ½"	8"	—	—	1PNY8
	Flanged	1 ½"	12"	—	1PNP2	1PNY9
Wall Tube	Slip	1 ½"	8½"	—	1PNN9	—
Waste Arm	Slip	1 ½"	7"	—	489W23	—
	Slip	1 ½"	15"	—	1PNP7	1PNY1
Kitchen End Outlet						
End Out Double Bowl Installation Kit	Direct Connection or Slip	1 ½"	16"	—	—	4FEY9
Kitchen Flexible						
Tailpiece	Direct Connection	1 ½"	12"	—	—	1PPC6
Lavatory						
Extension	Fine Thread	1 ¼"	12"	—	1PNT2	—
	MNPT x MNPT	1 ¼"	6"	—	1PNT1	—
	Slip	1 ¼"	6"	—	1PNT9	1PNY6
	Slip	1 ¼"	8"	—	—	4FEZ1
	Slip	1 ¼"	12"	—	1PNP5	1PNZ2
Wall Tube	Slip	1 ¼"	6½"	—	1PNN8	—
Lavatory/Kitchen						
Coupling	Slip	1 ¼", 1 ½"	2⅜"	—	1PNP9	—
	Slip	1 ¼", 1 ½"	3½"	—	—	1PPA5
Flexible Coupler	Slip	1 ¼", 1 ½"	6¾"	—	—	1PPC9
Lavatory Flexible						
Extension	Slip	1 ¼"	8"	—	—	1PPC7

STUDOR IPS CORPORATION

Air Admittance Valves

1ATD5

- Use as individual, branch, circuit, or stack vents

Allow air to enter DWV systems to equalize pressure when water drains out of the system; eliminate the need for costly roof penetrations and vent piping. 1ATD5 and 1ATD6 meet ASSE 1050/1051 and NSF 14.

Type	For Use With	Pipe Dia. - Drains	Color/ Finish	Material of Construction	Item No.
MAXI-VENT®	Circuit Vent Or Stack Type Application Up To 500 DFU, Individual Branch, Venting Single Fixture	3 in to 4 in	White	ABS	1ATD5
MINI-VENT®	Venting Single Fixture, Individual Branch, Circuit Vent Or Stack Type Application Up To 160 DFU	1 ½ in to 2 in	White	ABS	1ATD6
MAXI-FILTRA™	Filtering Sewer Gas	3 in, 4 in	Black	ABS	15W940
MAXI-CAP™	Maxi Vent(R)	—	Silver	Aluminum	15W941

Sweet Air

Vent Stack Odor Eliminator

32V293

Activated carbon (included with filter) helps stop offensive odors, including hydrogen sulfide gas, produced in commercial and residential drain pipes and septic systems. Unit easily attaches to vent stack pipes.

Description	Pipe Dia. - Drains	Color/ Finish	Material of Construction	Item No.
Vent Stack Filter w/8 Oz. Activated Carbon Charge	3 in, 4 in	Black	ABS	32V293
Replacement Carbon	—	—	—	32V294

31XJ53

Kissler

Drain Accessories

Description	Pipe Dia.	Item No.	Pkg. Qty.
Escutcheons			
Two Piece, 430 Stainless Steel	1	**1PPE4**	1
Two Piece, Stainless Steel	3/8	**1PPE1**	1
	1/2	**1PPE2**	1
	3/4	**1PPE3**	1
Two piece, Stainless Steel	1 1/4	**4FEZ2**	1
	1 1/2	**4FEZ3**	1
Faucet Covers and Drain Plunger			
Drain Plunger, Plastic	1 1/4	**1PPH8**	1
Faucet Hole Cover, Bolt In, Plastic	1 1/2	**1PPJ6**	1
Faucet Hole Cover, Bolt In, Stainless Steel	1 1/2	**1PPJ5**	1
Faucet Hole Cover, Snap In, Stainless Steel	1 1/2	**1PPJ7**	1
Stoppers and Chains			
Disposal Stopper, Rubber	3 1/8 to 4 1/16	**4FEW6**	1
Kitchen Sink Stopper, Flat, Rubber	5	**4FEW5**	1
Stopper, for Basins, Laundry Tubs and Other Drain Openings, Sinks, Rubber	1 5/8 to 1 3/4	**1PPH5**	5
Stopper With Chain, for Basins, Laundry Tubs and Other Drain Openings, Sinks, Rubber	1 1/2 to 2	**1PPJ2**	1
Strainers and Baskets			
Flat Drain Strainer, Aluminum	3	**1PPG6**	1
Kitchen, Mesh Strainer, Stainless Steel	3 1/2	**1PPG9**	1
Lavatory, Mesh Strainer, Stainless Steel	1 1/4	**1PPG7**	1
Post Design, Sink Basket, Stainless Steel	3	**1PPF9**	1
Sink Strainer, Brass	3 1/2 to 4	**1PPF4**	1
Sink Strainer, Stainless Steel	3 1/2	**1HEG4**	1
Sink Strainer, Top Tighten, Plastic, Stainless Steel	3 1/2 to 4	**1PPF7**	1
Sink Strainer, Twist and Lock, Stainless Steel	3 1/2 to 4	**1PPF6**	1
Sink Strainer Assembly, Stainless Steel	1 1/2	**4FEW4**	1
Tub, Mesh Strainer, Stainless Steel	1 3/8 to 1 1/2	**1PPG8**	1
Universal Style, Sink Basket, Stainless Steel	3 13/64	**1PPF8**	1
Supply Lines			
Faucet Connector, Inlet 3/8", Outlet 1/2", Compression, Stainless Steel Braided	—	**31XJ53** *	1
Washing Machine Connector, Inlet 3/4", Outlet 3/4", Hose, Stainless Steel Braided	—	**31XJ61** *	1
Washers, Gaskets, Nuts, and Trap Vent			
Gasket, for Pop-up Drains, Rubber	1 1/2	**4FEX4**	1
Kitchen, Slip-Nut, Zinc	1 1/2	**1PNW5**	10
Kitchen, Slip-Nut And Washer, Polypropylene	1 1/4, 1 1/2	**1PPB7**	10
Kitchen, Tailpiece, Tailpiece Washer, Polyethylene	1 1/2	**1PPC2**	10
Kitchen, Tailpiece, Washer, Rubber	1 1/2	**1PNV9**	10
Kitchen, Washer, Polyethylene	1 1/2	**1PPB3**	10
Kitchen, Washer, Rubber	1 1/2	**1PNW1**	10
Lavatory, Slip-Nut, Zinc	1 1/4	**1PNW4**	10
Lavatory, Washer, Rubber	1 1/4	**1PNV8**	10
Lavatory/Kitchen, Slip-Nut And Washer, Zinc	1 1/4 to 1 1/2	**1PNW6**	10
	2	**1PNW7**	10
Lavatory/Kitchen, Washer, Polyethylene	1 1/4 to 1 1/2	**1PPB4**	10
Rubber Washer Assortment, Rubber	1 1/4, 1 1/2	**1PNW3**	8
Slip-Nut, Brass, 1/2 in" L	1 1/2	**489V83**	1
Slip-Nut, Brass, 15/32 in" L	1 1/2	**489V80**	1
Slip-Nut, Brass, 31/64 in" L	1 1/2	**489V81**	1
Slip-Nut, Chrome, 33/64 in" L	1 1/4	**489V82**	1
Waste Connectors			
Kitchen Waste Connector, Slip x FIP, Brass	1 1/2	**1PNU8**	1
Kitchen Waste Connector, Slip x MIP, Brass	1 1/2	**1PNU6**	1

*** Kissler brand.**

Push Pull Tub Stopper 6AVK7

General Purpose Drain 4FRU1

AB&A IPS CORPORATION · WATCO · Oatey · SMITH JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies

Bathtub, Shower, and Sink Drains

Description	Drain Material*	Pipe Dia.	Connection	L	Brand	Item No.
Bathtub Drains						
1-hole, Bath Waste, Finish Kit, Push&Lift	Brass	1 1/2"	Screw	2 1/2"	AB&A	**38R069** †
Bath Waste, Classic Push&Lift, Trim Kit	Sched 40 ABS	1 1/2"	Screw	—	AB&A	**38R073** †
Foot Actuated Tub Closure	CPB	2"	5/16 in Brass Pin	2 33/50"	Watco	**6AVK6**
Foot Actuated Tub Closure	CPB	2 7/8"	1 3/8-16 Fine Thread	1 1/4"	Watco	**6AVL0**
Foot Actuated Tub Closure	CPB	2 7/8"	1 1/2-11-1/2 Coarse Thread	1 1/4"	Watco	**6AVL4**
Lift & Turn Tub Closure	CPB	2 7/8"	1 3/8-16 Fine Thread	1 1/4"	Watco	**6AVK9**
Lift & Turn Tub Closure	CPB	2 7/8"	1 1/2-11-1/2 Coarse Thread	1 1/4"	Watco	**6AVL3**
Nufit Lift & Turn Tub Closure	Brass	2 7/8"	Silicone Adhesive	—	Watco	**6AVL5** †
Push Pull Tub Closure	CPB	2"	3/8 in & 5/16 in Brass Pin	2"	Watco	**6AVK7**
Push Pull Tub Closure	CPB	2 7/8"	1 3/8-16 Fine Thread	1"	Watco	**6AVL1**
Push Pull Tub Closure	CPB	2 7/8"	1 3/8-16 Fine Thread	1 1/4"	Watco	**6AVK8**
Push Pull Tub Closure	CPB	2 7/8"	1 1/2-11-1/2 Coarse Thread	1 1/4"	Watco	**6AVL2**
Stopper & Drain, Push Pull, 3/8 & 5/16 in Combo Pins & Grid Strainer	P, SS	2 7/8"	Pin Adapter	—	Watco	**40L397**
Stopper & Drain, Push Pull, w/10-24 Pin & Grid Strainer	P, SS	2 7/8"	Pin Adapter	—	Watco	**40L399**
Stopper & Drain, Univ., Foot Actuated, w/Grid Strainer	P, SS	2 7/8"	Silicone Adhesive	—	Watco	**40L402** †
Trip Lever Finish Kit w/Strainer	CPB		Screw	—	AB&A	**38R070**
Trip Lever Linkage w/ out Overflow Plate	Brass	1 5/16"	—	—	Watco	**6AVL9**
Waste & One Hole Overflow Half Kit	Sched 40 PVC	1 1/2"	Solvent Weld	2 1/2"	AB&A	**38R068** †
Shower Drains						
Floor Drain Grid Drain cover	SS	5"	Spring Like Prongs	—	—	**1PPE6** †
General Purpose Drain, White Finish	PVC	2", 3"	Solvent-Weld	—	Oatey	**4FRU1** †
General Purpose Drain, White Finish	PVC	3", 4"	Solvent-Weld	—	Oatey	**4FRU3** †
Shower Drain, Stainless Steel Finish	P	2"	Solvent-Weld	4 1/2"	—	**1RLU9** †
Shower Drain Grid	SS	4 1/2"	Snap-In	4 1/2"	—	**1RLV6** †
Sink Drains						
Lift Rod Assembly	—		—	—	—	**1PPH9**
Sink Strainer, Heavy Duty	—	3 1/2" to 4"	MNPT	4 1/2	—	**38W328**
Stink Stopper Quad Close Trap Seal	—	3"	—	—	JR Smith	**24E549**

*** CPB = chrome-plated brass, P = plastic, SS = stainless steel. † Stainless steel grid.**

ZURN

Brass Tubular Drain Components, 17-Ga.

- All items have a chrome finish, except 40D764 and 40D765, which have a silver finish.

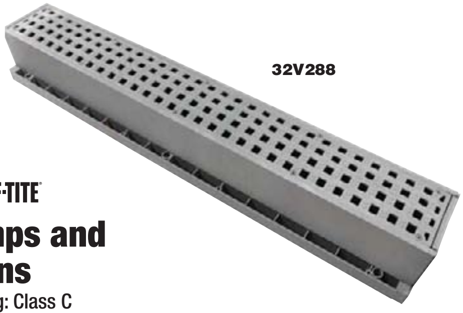
Waste Connection 4WDG4

Description	Material of Construction	Connection	Pipe Dia. - Drains	L (in.)	Brand	Item No.
Extension Tube w/Nut	Brass	Slip	1 1/4 in	12 in	Zurn	**4WDK7**
Extension Tube w/Nut	Brass	Slip	1 1/2 in	12 in	Zurn	**4WDJ2**
Female IPS Waste Connection	Cast Brass	Compression x IPS	1 1/2 in x 1 1/2 in	—	Zurn	**4WDG4**
J-Bend	Brass	Compression x Direct Connection	1 1/2 in	—	Zurn	**4WDK6**
Low Inlet P Trap	Zinc	Compression	1 1/4 in	11 in	Zurn	**40D764**
Low Inlet P Trap	Zinc	Compression	1 1/2 in	12 3/4 in	Zurn	**40D765**
P-Trap w/Cleanout	Cast Brass	Slip	1 1/4 in	7 1/2 in	Zurn	**4WDE3**
P-Trap w/Cleanout	Cast Brass	Slip	1 1/4 in	8 1/2 in	Zurn	**4WDE1**
P-Trap w/Cleanout	Cast Brass	Slip	1 1/2 in	7 1/2 in	Zurn	**4WDE6**
P-Trap w/Cleanout and Brass Nuts	Cast Brass	Slip	1 1/2 in	9 in	Zurn	**4WDE4**
P-Trap w/Clenaout, Slip Nuts And Washer	Brass	Slip	1 1/2 in	11 1/2 in	—	**1PNL3**
P-Trap with Flange	Brass	Slip	1 1/4 in		—	**444J28**
Sink Trap, Meets Los Angeles Code Requirements	Brass	Slip x IPS	1 1/2 in	5 3/4 in	Zurn	**4WDJ8**
Sink Trap, Meets Washington DC Code Requirements	Brass	Slip x Sweat	1 1/2 in x 1 1/4 in	7 1/2 in	Zurn	**4WDK1**
Swivel Sink Trap for Copper w/Cleanout	Brass	Slip x Sweat	1 1/2 in	—	Zurn	**4WDL4**
Tailpiece, Straight Flanged	Brass	Flanged x Slip	1 1/2 in	6 in	Zurn	**4WDH9**
Tailpiece, Straight Flanged	Brass	Flanged x Slip	1 1/2 in	12 in	Zurn	**4WDH7**
Tailpiece, Threaded One End	Brass	MNPT x Slip	1 1/4 in	8 in	Zurn	**4WDH4**
Tailpiece, Threaded One End	Brass	MNPT x Slip	1 1/4 in	12 in	Zurn	**4WDH3**
Wall Bend	Cast Brass	Beaded x Slip	1 1/4 in	8 1/2 in	Zurn	**4WDG9**
Wall Bend	Cast Brass	Beaded x Slip	1 1/4 in	15 in	Zurn	**4WDG8**
Wall Bend	Cast Brass	Beaded x Slip	1 1/2 in	15 in	Zurn	**4WDH1**
Waste Arm Slip Joint Connection	Brass	Slip	1 1/2 in	15 in	Zurn	**4WDK9**

P-Trap 4WDE1

Sink Trap 4WDJ8

Threaded Tailpiece 4WDH3



32V288

ZURN TUF-TITE

Drain Sumps and Trench Pans

- Wheel load rating: Class C

Compatible with various pipe sizes including 4" dia pipe. **Drain Sumps with Grate** feature a universal snap-in pipe seal and a contoured bottom that directs all water to the drain to help eliminate standing water. For use in landscape or hardscape drainage and below downspouts. **Trench Pan Drain** and **Trench Pans** are for use in concrete, linear surfaces including driveways, floors, and truck docks.

Color	Material of Construction	W	L	D	Brand	Mfr. Model	Item No.
Floor Drain Grate							
—	Ductile Iron	5 ⅜ in	20"	1 ⅜ in	Zurn	P6-DGE	**22F378**
	Ductile Iron	5 ⅜ in	20"	⅞ in	Zurn	P6-DGC	**22F379**
	Polyethylene	5 ⅜ in	20"	¾ in	Zurn	P6-HPP	**22F383**
Silver	Stainless Steel	5 ⅜ in	40"	1 ¼ in	Zurn	P6-RFSC	**33KL73**
	Stainless Steel	5 ⅜ in	40"	¾ in	Zurn	P6-RPSC	**33KL74**
—	Cast Iron	4 ⅛ in	20"	—	Zurn	P4-CG	**22F382**
Two Hole Drain Sump with Grate							
Black	Plastic	9"	14"	9"	Tuf-Tite	2HDS-2B	**24WA14**
	Plastic	9"	14"	9"	Tuf-Tite	2HDS-2G	**24WA15**
	Plastic	11"	11"	15½"	Tuf-Tite	2HDS-1B	**24WA11** *
	Plastic	11"	11"	15½"	Tuf-Tite	2HDS-1G	**24WA12** *
	Plastic	16"	16"	14½"	Tuf-Tite	2HDS-4B	**24WA13**
Trench Pan Drainage System							
Gray	Plastic	4½"	36"	6"	Tuf-Tite	TPAN-36	**32V287**
	Plastic	6¾"	36"	5"	Tuf-Tite	TR1-GRAY	**32V288**
Area Drain							
Black	Plastic	11"	11"	5"	Tuf-Tite	AD1	**32V289**
Grate							
Black	Plastic	16 in	16"	2 in	Tuf-Tite	B4-DG	**32V304**
Trench Pan							
Black	Plastic	6"	4½"	12"	Tuf-Tite	TPAN-12	**32V290**

***** 24WA11 is a black grid. 24WA12 is a green grid.*

11U241

11U238

22F405

SMITH JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies WATTS REGULATOR ZURN

Roof Drains

Protect connected piping and drain sump from debris. For use on flat roofs.

JR Smith—11U241 and 11U242 include flashing collar and mounting screws. 11U240 retrofits most existing roof drains to accept a Jay R. Smith dome.

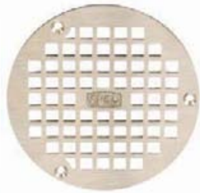
Watts—1WXC4 includes flashing clamps with integral gravel stop and self-locking poly dome.

Zurn—22F375 and 22F376 include a combination membrane flashing clamp/gravel guard. 22F405 and 22F406 feature a a drop-in connection to ease installation.

Description	Color	Material	Connection	Brand	Item No.
Roof Drains w/Domes					
2 in Pipe Dia. 11 ¾ in H	Yellow	Cast Iron	No Hub	JR Smith	**11U241**
3 in Pipe Dia. x 11 ¾ in H	Yellow	Cast Iron	No Hub	JR Smith	**11U242**
4 in Pipe Dia. 12 ½ in H	Blue	Cast Iron	No Hub	Watts	**1WXC4**
Roof Drain Domes					
4 ½ in H, Cast Iron Grid	Blue	Cast Iron	Screw	Zurn	**22F376**
4 ½ in H, Plastic Grid	Blue	Plastic	Screw	Zurn	**22F375**
Dome, 11⅛" Dia.	Black	Polyethylene	Clamp	JR Smith	**11U239**
Dome, 11⅛" Dia.	Yellow	Cast Iron	Clamp	JR Smith	**11U238**
Dome, 11⁷⁄₁₆" Dia.	Gray	Ductile Iron	Clamp	Watts	**1WXC6**
Dome, 12¼" Dia.	Gray	Plastic	Clamp	Watts	**1WXC5**
Roof Drain Collars					
Roof Drain Collar, Univ. Retrofit, 13⅝" Dia.	Yellow	Cast Iron	Screw	JR Smith	**11U240**
Drain Domes					
2 ¹¹⁄₁₆ in H, Aluminum Grid	Silver	Aluminum	Drop In	Zurn	**22F405**
2 ¹¹⁄₁₆ in H, Plastic Grid	White	Plastic	Drop In	Zurn	**22F406**

11U232

38VC44



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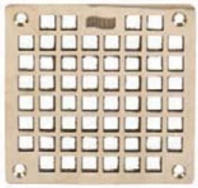


11U229

24X182

SMITH JAY R. SMITH MFG. CO. Member of Acorn's Family of Companies ZURN Oatey RECTORSEAL

Floor Drains and Grates

Nickel-bronze floor drains are for use in kitchens, restrooms, and other foot traffic areas. 11U236 flashing collar drain body can be used for on-grade areas where a waterproofing membrane is required. The strainer can be adjusted up to 2" above from the top of the drain body.

Pipe Dia. - Drains	Connection	Material of Construction	Brand	Adjustable Floor Drain Strainer Item No.	Cleanout Cover Item No.	Sanitary Floor Drain Item No.
2 in	No Hub	Cast Iron	JR Smith	—	—	**38VC44**
3 in	MNPT	Nickel Bronze	JR Smith	**11U245**	—	—
3 in	No Hub	Cast Iron	JR Smith	—	—	**38VC45**
4 in	NPSM	Cast Iron	JR Smith	**11U246**	**11U244**	—
5 ⅜ in	Screw	Nickel Bronze	JR Smith	—	**24E559**	—

Item	Pipe Dia. - Drains	Connection	Overall Dia.	L (in.)	Brand	Item No.
Round Commercial, Silver/Polished Nickel						
Adjustable Floor Drain Strainer	3 ¾ in	IPS	5"	—	JR Smith	**11U231**
	3 ¾ in	IPS	6"	—	JR Smith	**11U232**
Floor Drain Grate	—	Screw	4¹¹⁄₁₆"	—	JR Smith	**11U227**
	—	Screw	5¹⁹⁄₃₂"	—	JR Smith	**11U228**
Round Strainer, Polished Nickel						
Round Strainer	5 in	Drop In	—	—	Zurn	**41J517**
Round Strainer Grate, Bronze/Nickel						
Grid Strainer	3 ½ in	—	—	6	Zurn	**45NC91**
Square Commercial, Silver/Polished Nickel						
Adjustable Floor Drain Strainer	3 ¾ in	IPS	—	5 in	JR Smith	**11U233**
	3 ¾ in	IPS	—	6 in	JR Smith	**11U234**
Floor Drain Grate	—	Screw	—	4 ⅝ in	JR Smith	**11U229**
	—	Screw	—	5 ⁹⁄₁₆ in	JR Smith	**11U230**
Square Strainer Grate, Bronze/Nickel						
Grid Strainer	3 ½ in	—	—	5	Zurn	**45NC90**
	3 ½ in	—	—	6	Zurn	**45NC92**

Item	Pipe Dia. - Drains	Overall Dia.	Connection	Material of Construction	Brand	Item No.
Floor Drain Body	3 in	9 in	No-Hub	Cast Iron	JR Smith	**11U236**
Cleanouts	4 in	5⅛"	No Hub	Cast Iron	Zurn	**38UK39**
Floor Cleanout	4 in	5⅛"	No Hub	Cast Iron	Zurn	**38UK40**
Floor Cleanout	6 in	7½"	—	Nickel Bronze	JR Smith	**45DT54**

Item	Type	Material of Construction	Connection	Pipe Dia. - Drains	H (in.)	L (in.)	Brand	Item No.
Drain	Trap Seal	Plastic	Slip	2 in	1 ¼ in	—	Rectorseal	**49EG75**
Drain	Trap Seal	Plastic	Slip	3 in	1 ¼ in	—	Rectorseal	**49EG76**
Floor Clean Out Cover	—	Bronze	Screw	5 ⅝ in	⅝ in	—	Zurn	**41J464**
Floor Drain Grate	w/Screws	Bronze	Screw	4 ¹¹⁄₁₆ in	—	—	JR Smith	**24E574**
Floor Grate	8" Dia.	Cast Iron	Drop In	—	—	8 in	Zurn	**24X182**
Floor Grate	—	Cast Iron	Drop In	6 ⅜ in	2 in	6 ½ in	Zurn	**41J518**
Floor Grate	—	Brass	Screw	5 in	5 in	5 in	Oatey	**39AN76**
Full Floor Drain Grate	—	Cast Iron	Drop In	—	½ in	8 ⅞ in	Zurn	**22F398**
Grid Strainer	Round	Nickel	—	3 ½ in	—	6	Zurn	**45NC91**
Grid Strainer	Square	Nickel	—	3 ½ in	—	5	Zurn	**45NC90**
Grid Strainer	Square	Nickel	—	3 ½ in	—	6	Zurn	**45NC92**
Half Floor Drain Grate	—	Cast Iron	Drop In	—	½ in	8 ⅞ in	Zurn	**22F401**

Sink Material & Bowl Size

Corterra—A solid surface polymer resin (plastic) with a sleek, durable finish.

Vitreous China—Also called ceramic or porcelain, this clay-based material is made from dense clay that is heated or fired, cured, and glazed. Durable, low-maintenance, won't rust, fade, or discolor.

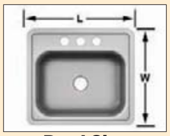
Stainless Steel—One of the most durable, low-maintenance sinks. Resists stains, scratches, cracks, peeling, and dents.

Terreon—A recycled resin (plastic) that creates a smooth, nonporous surface. Easy to clean, Terreon resists chemicals, stains, heat, scratches, and UV light.

Bradstone—A durable plastic made from reinforced thermoset polyester resins, inorganic fillers, and fade-resistant pigments.

Molded Stone and SMC Fiberglass—Plastic materials molded from a calcium base bonded with long glass strands. Smooth materials are strong and fire retardant.

Polypropylene—Plastic construction resists stains, rust, scratches, impact, and dents.



Bowl Size

Bowl Depth

Wall-Mounted Bathroom Sinks

Stainless Steel 49T917

Terreon 20HP04

Vitreous China 493H77

Sinks are installed directly on the wall to save space, eliminate the need for bathroom vanities, and provide storage space below the sink. They are commonly used in smaller bathrooms such as in small offices and patient rooms.

Bathroom Sink Kits 10J133 to 10J138—Complete, ready-to-install lavatory sink packages include wall hanger, faucet, grid drain, and cast trap.

Brand	Series	Color	Sink Material	Overall Length	Overall Width	Bowl Size L x W	Bowl Depth	Drain Opening	Faucet Spout Shape	Faucet Mounting Centers	Flow Rate (gpm)	ADA Compliant	Mfr. Model	Item No.
One-Person Bathroom Sinks With Faucets														
Single Metering Push Button														
Bestcare	Ligature Resistant Wash Basins	White	Corterra®	20"	21¾"	15" x 12"	4"	1⁵⁄₁₆"	Cone	4"	0.5	Yes	WH3775--3373	**38C427**
Single Lever Handle														
Zurn	Pedastal Sinks	White	Vitreous China	19½"	17⅛"	15¼" x 10¾"	7"	1¼"	Low Arc	4"	2.2	Yes	Z5354.119.1.07.00.00	**10J133** †
Sensor Operation														
Zurn	Z5350	White	Vitreous China	19½"	17⅛"	15¼" x 10¾"	7"	1¼"	Mid Arc	4"	1.5	Yes	Z5354.660.1.07.00.0	**10J137** ‡
Dual Wristblade Handles														
Zurn	Z5340	White	Vitreous China	20"	18¼"	16½" x 10¼"	6⅜"	1¼"	Gooseneck	4"	2.2	Yes	Z5344.525.3.07.00.6	**10J134** †
Zurn	Z5350	White	Vitreous China	19½"	17⅛"	15¼" x 10¾"	7"	1¼"	Gooseneck	8"	2.2	Yes	Z5358.530.1.07.00.00	**10J136** †
Dual Lever Handles														
Zurn	Z5340	White	Vitreous China	20"	18¼"	16½" x 10¼"	6⅜"	1¼"	Low Arc	4"	2.2	Yes	Z5344.520.1.07.00.0	**10J138** †
Dual Knob Handles														
Dura-Ware	1950 Series	Silver	Stainless Steel	18"	15"	14½" x 9½"	6"	1½"	Gooseneck	4"	0.5	No	1950-1-CSS	**49T917**
Two-Person Bathroom Sinks With Faucets														
Sensor Operation														
Bradley	Express	Gray	Terreon	54"	22"	47" x 12⅜"	6"	1½"	Low Arc	—	0.23	Yes	S93-707	**20HP03** ‡
Bradley	Frequency	Riverstone	Terreon	62¾"	29"	23⅞" x 17¾"	6"	1½"	Mid Arc	—	1.5	Yes	S45-2463	**3FLZ7** ‡
Three-Person Bathroom Sinks With Faucets														
Sensor Operation														
Bradley	Express	Gray	Terreon	84"	22"	84" x 12⅜"	6"	1½"	Low Arc	—	0.23	Yes	S93-708	**20HP04** ‡
Bradley	Express ELX	Gray	Terreon	94"	30"	21⅜" x 14½"	4⅜"	1½"	Low Arc	—	0.5	Yes	S93-740	**48NU35** *#
Bradley	Express ELX	White	Terreon	30"	66"	21⅜" x 14½"	4⅜"	1½"	Low Arc	—	0.5	Yes	S93-735	**48NU30** *#

Brand	Series	Color	Sink Material	Overall Length	Overall Width	Bowl Size L x W	Bowl Depth	Drain Opening	ADA Compliant	Mfr. Model	Item No.
One-Person Bathroom Sinks Without Faucets											
1 Pre-Cut or Knockout Hole For Single Hole Faucets											
Kohler	Kingston™	White	Vitreous China	21¼"	18⅛"	15" x 10"	3¼"	1¾"	Yes	K-2007-0	**493H77**
Kohler	Morningside™	White	Vitreous China	20"	27"	14" x 13"	2⅝"	1¾"	Yes	K-12638-0	**56FD20**
3 Pre-Cut or Knockout Holes For 4 in Centerset Faucets & Handles											
American Standard	Declyn™	White	Vitreous China	17"	18½"	10¾" x 14¼"	6"	1¼"	No	0321026.020	**2NJL9**
American Standard	Declyn™	White	Vitreous China	17"	18½"	10¾" x 14¼"	6"	1¼"	No	0321075.020	**45W821**
American Standard	Lucerne™	White	Vitreous China	18¼"	20½"	10" x 15"	6½"	1¼"	Yes	0355012.020	**1VNW3**
Dura-Ware	1953 Series	Silver	Stainless Steel	18"	22"	14½" x 12"	5"	1¼"	Yes	1953-1-09-GT-H34	**49T916**
Kohler	Greenwich™	White	Vitreous China	20¾"	18¼"	15" x 10"	3¼"	1¾"	Yes	K-2032-0	**493H78**
Kohler	Hudson	White	Cast Iron	19"	17"	15" x 10"	5"	1¾"	Yes	K-2861-0	**493H80**
3 Pre-Cut or Knockout Holes For 8 in Centerset Faucets & Handles											
American Standard	Lucerne™	White	Vitreous China	18¼"	20½"	10" x 15"	6½"	1¼"	Yes	0356015.020	**1VNW4**
Kohler	Kingston™	White	Vitreous China	21¼"	18⅛"	16" x 10"	3"	1¾"	Yes	K-2006-0	**56FD16**

****Includes sensor soap dispenser. † Vandal-resistant handle. ‡ Vandal-resistant aerator. # Vandal-resistant trap cover.***

Drop-In 493H62

Drop-In 1VNW7

Undermount 1VNW5

Counter-Mounted Bathroom Sinks

- White vitreous china
- ADA Compliant

Sinks mount above or below the countertop in commercial and residential applications such as apartments, office buildings, and restaurants. **Drop-in Bathroom Sinks** "drop" into a hole in the countertop and have an edge that overhangs the countertop to keep it in place. **Undermount Bathroom Sinks** are installed from under the countertop and are held in place with brackets to create a continuous flow from sink to countertop, eliminating the lip between the edge of the sink and the countertop where food particles or dirt can get stuck.

Brand	Series	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Drain Opening	Mfr. Model	Item No.
Drop-in Bathroom Sinks									
1 Pre-Cut Or Knockout Hole For Single Hole Faucets									
Kohler	Brookline®	19"	19"	8⅜"	14" x 12"	8⅜"	1¾"	K-2202-1-0	**493H59**
Kohler	Cimarron®	20¹¹⁄₁₆"	17⅞"	7⅝"	20⅜" x 11½"	7⅝"	1¾"	K-2351-1-0	**493H62**
Kohler	Pennington®	20¼"	17½"	8½"	16" x 11"	8½"	1¾"	K-2196-1-0	**493H60**
3 Pre-Cut Or Knockout Holes For 4 in Centerset Faucets									
American Standard	Aqualyn®	20⅜"	17⅜"	7⅝"	16" x 10"	5⅝"	1¼"	0476028.020	**1VNW8**
American Standard	Ovalyn™	19⅛"	19⅛"	7¹³⁄₁₆"	15" x 12⅛"	5¾"	1¼"	0491019.020	**1VNW7**
Kohler	Pennington®	20¼"	17½"	8½"	16" x 11"	4"	1¾"	K-2196-4-0	**56FD14**
3 Pre-Cut Or Knockout Holes For 8 in Centerset Faucets									
Kohler	Pennington®	20¼"	17½"	8½"	16" x 11"	4"	1¾"	K-2196-8-0	**56FD15**
Undermount Bathroom Sinks									
0 Holes									
American Standard	Ovalyn™	19¼"	16¼"	7³⁄₁₆"	17" x 14"	5½"	1¼"	0496221.020	**1VNW5**
American Standard	Ovalyn™	21½"	17⅜"	7½"	19" x 15⅜"	5½"	1¼"	0497221.020	**1VNW6**

For Sink Material and Bowl Size, see page 2725.

Drop-In Dual Knob Handle Faucet 3H330

Undermount Without 13G636

Counter-Mounted Kitchen & Bar Sinks

Durable, stain-resistant stainless steel sinks are used in commercial food preparation, hospital and school cafeterias, and restaurants and bars. **Drop-in Sinks** have a protruding edge that sits above the countertop and overhangs the hole in the counter to keep the sink in place. They include pre-cut or knockout holes for 4" centerset faucets. **Undermount Sinks** are installed from under the countertop and are held in place with brackets to create a continuous flow from sink to countertop. **Sinks With Faucets** have 4" mounting centers and gooseneck faucets that mount to the deck.

Brand	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	Flow Rate (gpm)	ADA Compliant	Mfr. Model	Item No.
Drop-in, One-Bowl Kitchen & Bar Sinks With Faucets											
Dual Knob Handle											
Elkay	15"	15"	5³⁄₁₆"	12" x 10"	5"	23-ga	2"	1.5	Yes	KP211515C	**3H330**
Dual Lever Handle											
Elkay	15"	15"	7⅛"	12" x 9¼"	7"	18-ga	2"	1.5	No	BLR150C	**4YJ88**

Brand	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	ADA Compliant	Mfr. Model	Item No.
Drop-in, One-Bowl Kitchen & Bar Sinks Without Faucets										
2 Pre-Cut Or Knockout Holes										
Elkay	15"	15"	5³⁄₁₆"	12" x 10"	5"	23 ga	2"	Yes	K115152	**3AEG1**
Elkay	17"	16"	7⅝"	14" x 10"	7½"	18 ga	3½"	No	LR17162	**1JYU4**
3 Pre-Cut Or Knockout Holes										
Elkay	15"	17½"	7⅝"	12" x 12"	7½"	18 ga	3½"	No	LR15173	**2KLF8**
Elkay	17"	22"	10⅛"	13" x 16"	10"	18 ga	3½"	No	DLR1722103	**3AEF7**
Elkay	19"	18"	5½"	16" x 11½"	5⅜"	18 ga	3½"	Yes	LRAD1918553	**11U324**
Elkay	19"	18"	7⅝"	16" x 11½"	7½"	18 ga	3½"	No	LR19183	**4YK12**
Elkay	19½"	19"	5½"	16" x 13½"	5⅜"	18 ga	3½"	Yes	LRAD1919553	**11U325**
Elkay	19½"	19"	7½"	16" x 13½"	7⅜"	18 ga	3½"	No	LR19193	**3AEF5**
Elkay	19½"	19"	10⅛"	16" x 13½"	10"	18 ga	3½"	No	DLR1919103	**4YJ90**
Elkay	22"	19½"	7⅝"	18" x 14"	7½"	18 ga	3½"	No	LR22193	**4YK13**
Elkay	25"	21¼"	5⅜"	21" x 15¾"	5¼"	22 ga	3½"	Yes	GE125213	**11U321**
Elkay	25"	22"	6⁹⁄₁₆"	21" x 15¾"	6⅜"	23 ga	3½"	Yes	D125223	**3AEG3**
Elkay	25"	22"	8¹⁄₁₆"	21" x 15¾"	8"	20 ga	3½"	No	DSE125223	**3AEF6**
Elkay	25"	22"	8⅛"	21" x 15¾"	7¾"	18 ga	3½"	No	LR25223	**4YK14**
Elkay	25"	22"	10⅜"	21" x 15¾"	10"	18 ga	3½"	No	DLR2522103	**3AEG4**
Elkay	25"	22"	12⅛"	21" x 15¾"	12"	18 ga	3½"	No	DLR2522123	**3AEG6**
Elkay	33"	22"	10⅛"	28" x 16"	10"	18 ga	3½"	No	DLRS3322103	**3AEG7**
Just	15"	18"	7½"	12" x 12"	7½"	18 ga	3½"	No	SL-1815-A-GR-3	**13G639**
Just	19"	17½"	7½"	16" x 11½"	7½"	18 ga	3½"	No	SL-17519-A-GR-3	**13G640**
Just	21"	19"	5½"	18" x 14"	5½"	18 ga	3½"	Yes	SL-ADA-1921-A-GR-3,5.5,DCR	**13G623**
Just	21"	19"	7½"	18" x 14"	7½"	18 ga	3½"	No	SL-1921-A-GR-3	**13G641**
Just	33"	22"	8"	28" x 16"	8"	18 ga	3½"	No	SL-2233-A-GR-3	**13G628**
4 Pre-Cut Or Knockout Holes										
Elkay	25"	21¼"	5½"	21" x 15¾"	5⅜"	18 ga	3½"	Yes	LRAD2521554	**3AEG8**
Elkay	25"	21¼"	5½"	28" x 16"	5⅜"	18 ga	3½"	Yes	LRAD3122554	**3AEG9**
Elkay	25"	22"	8⅛"	21" x 15¾"	7¾"	18 ga	3½"	No	LR25224	**4YK15**
Drop-in, Two-Bowl Kitchen & Bar Sinks Without Faucets										
3 Pre-Cut Or Knockout Holes										
Just	29"	18"	5½"	12" x 12"	5½"	18 ga	3½"	Yes	DL-ADA-1829-A-GR-3,5.5,DCR	**13G626**
4 Pre-Cut Or Knockout Holes										
Elkay	33"	22"	8¹⁄₁₆"	14" x 15¾"	7⅞"	18 ga	3½"	No	DSE233224	**3AEF8**
Elkay	33"	22"	8⅛"	13" x 16"	7¾"	18 ga	3½"	No	LR33224	**4YK17**
Undermount, One-Bowl Kitchen & Bar Sinks Without Faucets										
0 Pre-Cut Or Knockout Holes										
Just	24"	18"	5½"	22" x 16"	5½"	18 ga	3½"	Yes	US-ADA-1824-A, 5.5,DCR	**13G636**
Undermount, Two-Bowl Kitchen & Bar Sinks Without Faucets										
0 Pre-Cut Or Knockout Holes										
Just	32"	18"	5½"	14" x 16"	5½"	18 ga	3½"	Yes	UD-ADA-1832-A, 5.5,DCR	**13G637**

One-Bowl Dual Lever Handle Faucet 3JDU1

Freestanding Kitchen & Bar Sinks

Utility sinks, or scullery sinks, are made of stain-resistant stainless steel, and have a deep bowl for dishwashing and rinsing glasses, dishes, or large pots. They are typically used in commercial kitchens in school cafeterias, hospitals, and restaurants. **Sinks With Faucets** have 4" mounting centers and low-arc faucets that mount to the deck. **Sinks Without Faucets** have 8" mounting centers (except 13G617, 13G618, and 13G594 are centerset), in the deck or splash. **Drainboards** prevent spills and provide a food preparation or dish drying surface.

Brand	Work Surface Height	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	With Left Drainboard: Overall Length	With Left Drainboard: Flow Rate	With Left Drainboard: Item No.	With Right Drainboard: Overall Length	With Right Drainboard: Flow Rate	With Right Drainboard: Item No.
With Faucets													
Dual Manual Handle With Lever Handles													
Adv. Tabco	35½"	30"	40½"	16" x 20"	12"	16 ga	3½"	60"	1 gpm	**3JDU1**	60"	—	**3JDT8**
Adv. Tabco	35½"	30"	40½"	16" x 20"	12"	16 ga	3½"	72"	1 gpm	**3JDU5**	—	—	—

Brand	Number of Pre-Cut or Knockout Faucet Holes	Work Surface Height	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	No Drainboards: Overall Length	No Drainboards: Item No.	With Left Drainboard: Overall Length	With Left Drainboard: Item No.	With Right Drainboard: Overall Length	With Right Drainboard: Item No.	With Dual Drainboards: Overall Length	With Dual Drainboards: Item No.
Without Faucets																
One-Bowl																
Adv. Tabco	2	37"	24"	43"	18" x 18"	14"	16 ga	3½"	23"	**11U359**	38½"	**11U360**	38½"	**11U361**	54"	**11U362**
Adv. Tabco	2	37"	24"	43"	18" x 18"	14"	16 ga	3½"	41"	**11U367**	—	—	—	—	—	—
Adv. Tabco	2	37"	27"	42"	16" x 20"	12"	18 ga	3½"	—	—	46"	**8AW53**	46"	**9AD05**	66"	**8PAH1**
Adv. Tabco	2	37"	27"	42"	16" x 28"	12"	18 ga	3½"	25"	**11U356**	—	—	—	—	—	—
Adv. Tabco	2	37"	29½"	43"	24" x 24"	14"	16 ga	3½"	—	—	50½"	**11U364**	50½"	**11U365**	72"	**11U366**
Adv. Tabco	2	37"	30"	43"	24" x 24"	14"	16 ga	3½"	29"	**11U363**	—	—	—	—	—	—
Adv. Tabco	2	37"	31"	42"	24" x 24"	12"	18 ga	3½"	33"	**11U358**	54"	**8AWJ7**	54"	**8UTK1**	74"	**9JW46**
Eagle Group	2	37½"	27½"	44"	16" x 20"	13½"	14 ga	3½"	—	—	38⅞"	**11C703**	38⅞"	**11C704**	—	—
Eagle Group	2	37½"	27½"	44"	16" x 20"	13½"	16 ga	3½"	23¼"	**1JYR6**	—	—	—	—	—	—
Eagle Group	3	37½"	27"	44½"	18" x 20"	14"	14 ga	3½"	23"	**1JYT2**	—	—	—	—	—	—
Elkay	2	36"	25¾"	43¾"	20" x 16"	12"	18 ga	3½"	21"	**11U309**	36½"	**11U310**	36½"	**11U311**	—	—
Elkay	2	36"	27½"	44"	24" x 24"	14"	14 ga	3½"	27"	**11U286**	—	—	—	—	72"	**11U287**
Elkay	2	36"	29¾"	42¼"	18" x 24"	12¾"	16 ga	3½"	27"	**11U296**	—	—	—	—	—	—
Elkay	2	36"	29¾"	43¾"	24" x 24"	12"	18 ga	3½"	29"	**11U312**	50½"	**11U313**	50½"	**11U314**	—	—
Just	2	34"	27"	51"	36" x 24"	16"	14 ga	#35	—	—	—	—	61½"	**13G618**	—	—
Just	2	34"	27½"	48"	24" x 24"	12"	14 ga	#35	27"	**13G594**	—	—	—	—	—	—
Just	2	36"	27"	51"	36" x 24"	16"	14 ga	#35	39"	**13G617**	—	—	—	—	—	—

One-Bowl Without Faucet 11U310

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For Sink Material and Bowl Size, see page 2725.

ADVANCE TABCO · EAGLE MHC Division · ELKAY · Just · T&S

Freestanding Kitchen & Bar Sinks

Brand	Number of Pre-Cut or Knockout Faucet Holes	Work Surface Height	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	No Drainboards Overall Length	No Drainboards Item No.	With Left Drainboard Overall Length	With Left Drainboard Item No.	With Right Drainboard Overall Length	With Right Drainboard Item No.	With Dual Drainboards Overall Length	With Dual Drainboards Item No.
Two-Bowl																
Adv. Tabco	2	37"	23½"	43"	18" x 18"	14"	16 ga	3½"	—	—	56½"	**11U368**	—	—	—	—
	2	37"	24"	43"	18" x 18"	14"	16 ga	3½"	—	—	—	—	56½"	**11U369**	72"	**11U370**
	2	37"	27"	42"	16" x 20"	12"	18 ga	3½"	44"	**11U357**	64"	**8TN09**	64"	**8AV03**	85"	**9GD14**
	2	37"	29½"	43"	24" x 24"	14"	16 ga	3½"	53"	**11U371**	74½"	**11U372**	—	—	—	—
	2	37"	30"	43"	24" x 24"	14"	16 ga	3½"	—	—	—	—	74½"	**11U373**	96"	**11U374**
	2	37"	31"	42"	24" x 24"	12"	18 ga	3½"	—	—	80"	**8WU54**	80"	**9NLD6**	101"	**9DNM2**
Eagle Group	2	37½"	27½"	44"	16" x 20"	13½"	16 ga	3½"	—	—	—	—	—	—	72¼"	**1JYR7**
	3	37½"	27"	44½"	18" x 20"	14"	14 ga	3½"	—	—	—	—	—	—	76"	**1JYT3**
Elkay	2	36"	25¾"	43¾"	20" x 16"	12"	18 ga	3½"	39"	**11U315**	—	—	—	—	70"	**11U316**
	2	36"	27½"	44"	24" x 24"	14"	14 ga	3½"	51"	**11U290**	—	—	—	—	—	—
	2	36"	29¾"	42¼"	18" x 24"	12¾"	16 ga	3½"	47¼"	**11U301**	—	—	—	—	77¼"	**11U302**
Three-Bowl																
Adv. Tabco	2	37"	24"	43"	18" x 18"	14"	16 ga	3½"	59"	**11U376**	74½"	**11U377**	74½"	**11U378**	90"	**11U379**
	2	37"	26"	43"	16" x 20"	14"	16 ga	3½"	—	—	—	—	—	—	84"	**11U375**
	2	37"	27"	42"	16" x 20"	12"	18 ga	3½"	—	—	83"	**9HV22**	83"	**9WCP7**	103"	**8UTJ9**
	2	37"	30"	43"	18" x 24"	14"	16 ga	3½"	—	—	—	—	—	—	102"	**11U381**
	2	37"	35"	42"	20" x 28"	12"	18 ga	3½"	—	—	95"	**11U353**	95"	**11U354**	115"	**11U355**
	2	37"	36"	43"	20" x 30"	14"	16 ga	3½"	—	—	—	—	—	—	100"	**11U383**
	4	37"	30"	43"	24" x 24"	14"	16 ga	3½"	—	—	—	—	—	—	120"	**11U382**
	4	37"	31"	42"	24" x 24"	12"	18 ga	3½"	—	—	107"	**9HV23**	107"	**9W869**	127"	**9CEV1**
Eagle Group	2	37½"	27½"	44"	16" x 20"	13½"	16 ga	3½"	—	—	—	—	—	—	90"	**1JYR8**
	4	37½"	27"	44½"	18" x 20"	14"	14 ga	3½"	—	—	—	—	—	—	96"	**1JYT4**
Elkay	2	36"	25¾"	43¾"	20" x 16"	12"	18 ga	3½"	57"	**11U317**	—	—	—	—	88"	**11U318**
	4	36"	27½"	44"	24" x 24"	14"	14 ga	3½"	—	—	—	—	—	—	120"	**11U295**
	4	36"	29¾"	42¼"	18" x 24"	12¾"	16 ga	3½"	—	—	—	—	—	—	97½"	**11U306**
Four-Bowl																
Adv. Tabco	4	37"	27"	42"	16" x 20"	12"	18 ga	3½"	—	—	101"	**9W671**	101"	**9RZ31**	122"	**9RZ30**
	4	37"	31"	42"	24" x 24"	12"	18 ga	3½"	—	—	133"	**8AW52**	133"	**9CEV2**	154"	**9GD12**

Description	Brand	Mfr. Model	Item No.
Waste Valve For 3 ½ in Scullery Sink Drains			
With Overflow Tube And Head. Cast Bronze, FNPT 1 1/2" Or MNPT 2" Connections	T&S Brass	B-3952-01	**6MT91**
Without Overflow Tube and Head. Cast Bronze, 2" MNPT Connection	T&S Brass	B-3952	**6MT90**

Two-Bowl Without Faucet 11U370

Four-Bowl Without Faucet 9RZ31

ORION

Counter-Mounted Hospital and Lab Sinks

- 1½" drain opening

Black, polyethylene cup sinks are resistant to corrosion, scratches, and chemical reactions. They fit into a hole cut out of a lab countertop. A rolled and finished rim, or protruding edge, sits above the countertop and overhangs the hole in the counter to keep the sink in place. They are suitable for use in both educational and commercial laboratories.

Series	Bowl Shape	Bowl Size L x W	Bowl Depth	ADA Compliant	Mfr. Model	Item No.
ARLS	Square	12" x 12"	8"	No	ARLS 11	**4AYG6**
	Rectangular	15" x 18"	12"	No	ARLS 15	**4AYH1**
	Rectangular	15" x 25"	10"	No	ARLS 18	**4AYH4**
	Rectangular	15" x 18"	6"	Yes	ARLS15ADA	**4AYH7**
	Square	16" x 16"	8"	No	ARLS 13	**4AYG8**
	Rectangular	18" x 21"	10"	No	ARLS16	**4AYH2**
	Rectangular	18" x 23"	12"	No	ARLS 17	**4AYH3**
Cup Sink	Circular	4¹⁵⁄₁₆" x 4¹⁵⁄₁₆"	3¾"	No	CS7 6X TAPER	**4AYJ4**
	Circular	5" x 5"	3"	No	CS3 6X3	**4AYJ5**
	Oval	6" x 3"	4"	No	CS1-6x3x4	**4AYJ2**

Pipe Dia. - Drains	Length	Mfr. Model	Item No.
Waste Assembly, for Cup Sinks			
1 ½ in	4 ⁷⁄₃₂ in	WA-2	**4AYJ7**
1 ½ in	4 ¹⁵⁄₆₄ in	WA-1	**4AYJ6**
1 ½ in	4 ¹⁹⁄₃₂ in	WA-4	**4AYJ9**

Cup Sink 4AYJ4

ELKAY · Just · CHICAGO FAUCETS a Geberit company

Counter-Mounted Hand Sinks & Hand Wash Stations

Stainless steel drop-in sinks are ideal for washing hands in classrooms, cafeterias, and laboratories. They have a rolled, finished edge that overhangs the countertop to keep it in place. 5JC22 has a mouth guard that flexes on impact and a built-in adjustable flow control.

Brand	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Drain Opening	Faucet Spout Shape	Faucet Mounting Centers	Flow Rate (gpm)	ADA Compliant	Mfr. Model	Item No.
Drop-in, One-Person Hand Sinks & Hand Wash Stations With Faucets												
Single Lever Handle												
Elkay	25"	17"	6½"	15¾" x 14"	6⅜"	3½"	Gooseneck	4"	1.5	Yes	CDKAD251765C	**4YJ89**
Single Wristblade Handle												
Just	40"	21"	6½"	40" x 18"	6½"	4½"	Gooseneck		1.8	Yes	ARL-ADA-2146-A-T	**29VN01**
Dual Lever Handle												
—	13"	19"	10"	10" x 14"	10"	3"	Gooseneck	4"	1	No	DI-1-10	**4UDH6**
Dual Wristblade Handle												
Just	43"	24"	6½"	40" x 18"	6½"	4½"	Gooseneck	8"	2.2	Yes	ARB-ADA-2443-A-T	**29VM99**

Brand	Connec. (in.)	For Use With Grainger Item Number	Includes	Mfr. Model	Item No.
Drinking Fountain Heads					
Elkay	½ NPT	11U323, 13G653, 4YJ89,11U322	Self Closing Push-button Control, Built-In Adjustable Volume Control and Chrome Plated Fittings	LK1141A	**5JC22**
Chicago Faucets	½ NPSM	—		748-665ABCP	**3TFH6**

4UDH6

5JC22

For Sink Material and Bowl Size, see page 2725.

Wall-Mounted Hand Sinks & Hand Wash Stations

All-purpose stainless steel sinks are anchored to and supported by a wall, which eliminates the need for oversized cabinets or countertops. **Sinks With Faucets** are gooseneck faucets, except 3LMR5, which is a double-joint faucet, and 11U391, which is a low-arc faucet. 11U392 includes eyewash attachment. **Sinks Without Faucets** have openings for drainage and additional ⅞" holes in the splash for faucets and handles.

Lever Handles 3LMR5

Knob Handles 4NNH2

Sensor, AC Powered 28DV75

Single Knee Pedal 23PH41

1-Station Without Faucet 46CF19

Brand	No. of Stations	Mounting Location - Faucet	Includes Side Splash	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	Number of Faucet Holes	Flow Rate (gpm)	ADA Compliant	Knob Handles, 4 in Center Item No.	Lever Handles, 4 in Center Item No.	Wristblade Handles, 4 in Center Item No.	Wristblade Handles, 8 in Center Item No.
With Faucet														
Adv. Tabco	1	Deck	No	14" x 10"	5"	20 ga	3½"	2	1	No	—	11U391	—	—
	1	Deck	Yes	14" x 10"	5"	20 ga	3½"	2	1	No	—	11U388	—	—
	1	Splash	No	9" x 9"	5"	20 ga	3½"	2	1	No	—	3LMR5	—	—
	1	Splash	No	14" x 10"	5"	20 ga	1½"	2	1	No	—	11U397	—	—
	1	Splash	No	14" x 10"	5"	20 ga	3½"	2	1	No	—	11U392	—	—
	1	Splash	No	14" x 10"	5"	20 ga	3½"	2	1	No	—	3LMR4	—	—
	1	Splash	Yes	14" x 10"	5"	20 ga	3½"	2	1	No	—	11U398	11U384	—
Eagle Group	1	Deck	No	14" x 16"	5"	16 ga	1½"	2	2.2	Yes	—	4NNH3	—	—
	1	Splash	No	9¾" x 13½"	6¾"	20 ga	1½"	2	2.2	No	4NNH2	—	—	—
	1	Splash	No	13½" x 9¾"	6¾"	18 ga	1½"	2	2.2	No	—	4AVG7	4AVG8	—
	1	Splash	Yes	9¾" x 13½"	6¾"	18 ga	1½"	2	2.2	No	—	4AVG6	—	—
	1	Splash	Yes	13½" x 9¾"	6¾"	18 ga	1½"	2	2.2	No	—	—	4AVG9	—
Just	1	Deck	No	16" x 14"	6"	16 ga	3½"	4	1.5	Yes	—	—	13G653	—
Sani-Lav	1	Deck	No	16" x 12½"	6"	16 ga	2"	2	2	No	—	—	—	48PY37
	1	Deck	No	19" x 15½"	5"	16 ga	2"	2	2	Yes	—	—	48PY42	—
	1	Deck	No	20" x 17"	9"	16 ga	2"	2	2	No	—	—	—	48PY23
	1	Deck	No	27" x 16½"	5"	16 ga	2"	2	2	Yes	—	—	—	48PY08
	1	Deck	No	28" x 16½"	10½"	14 ga	3½"	2	2	No	—	—	—	28DV80
	1	Splash	No	19" x 16"	10"	18 ga	2"	2	2	No	—	—	—	40D710
	1	Splash	No	22" x 16½"	10½"	14 ga	3½"	2	2	No	—	—	—	28DV77
	2	Splash	No	37" x 16½"	8"	16 ga	2"	4	2	No	—	—	—	40D728
	2	Splash	No	45" x 16½"	5"	16 ga	2"	4	2	Yes	—	—	—	46CF13
	3	Deck	No	65" x 16½"	5"	16 ga	2"	6	2	Yes	—	—	—	46CF14
	3	Splash	No	57" x 16½"	8"	16 ga	2"	6	2	No	—	—	—	40D736
	4	Splash	No	80" x 16½"	8"	16 ga	2"	8	2	No	—	—	—	40D744
	6	Splash	No	117" x 16½"	8"	16 ga	2"	12	2	No	—	—	—	40D752

Brand	No. of Stations	Mounting Location - Faucet	Includes Side Splash	Bowl Size L x W	Bowl Depth	Gauge	Drain Opening	Number of Faucet Holes	Flow Rate (gpm)	ADA Compliant	Power Source	Sensor Item No.	Single Knee Pedal Item No.	Dual Knee Pedal Item No.
With Faucet														
Adv. Tabco	1	Splash	No	14" x 16"	6"	18 ga	3½"	1	1	No	—	—	11U385	—
Eagle Group	1	Deck	No	13½" x 9¾"	6¾"	18 ga	1½"	1	2.2	No	—	1XUD2	—	—
	1	Splash	No	13½" x 9¾"	6¾"	20 ga	1½"	1	2.2	No	—	—	11U262	—
Sani-Lav	1	Deck	No	16" x 12½"	6"	16 ga	2"	1	2	No	—	—	48PY35	48PY36
	1	Deck	No	20" x 17"	9"	16 ga	2"	1	2	No	—	—	48PY21	48PY22
	1	Deck	No	22" x 16½"	10½"	14 ga	3½"	1	2	No	AC	28DV75	—	—
	1	Deck	No	22" x 16½"	10½"	14 ga	3½"	1	2	No	Battery	28DV76	—	—
	1	Deck	No	28" x 16½"	10½"	14 ga	3½"	1	2	No	Battery	28DV79	—	—
	1	Deck	Yes	17" x 14"	7"	18 ga	2"	1	2	No	Battery	40D699	—	—
	1	Splash	No	14" x 11"	5"	18 ga	2"	1	2	No	—	—	40D716	46CF09
	1	Splash	No	14" x 11"	5"	18 ga	2"	1	2	No	AC	40D718	—	—
	1	Splash	No	14" x 11"	5"	18 ga	2"	1	2	No	Battery	40D719	—	—
	1	Splash	No	17" x 14"	7"	18 ga	2"	1	2	No	—	—	23PH31	40D692
	1	Splash	No	17" x 14"	7"	18 ga	2"	1	2	No	AC	40D694	—	—
	1	Splash	No	17" x 14"	7"	18 ga	2"	1	2	No	Battery	40D695	—	—
	1	Splash	No	19" x 16"	10"	18 ga	2"	1	2	No	AC	40D711	—	—
	1	Splash	No	19" x 16"	10"	18 ga	2"	1	2	No	—	—	23PH33	40D709
	1	Splash	No	20" x 17"	9"	16 ga	2"	1	2	No	AC	48PY24	—	—
	1	Splash	Yes	14" x 11"	5"	18 ga	2"	1	2	No	—	—	40D720	46CF10
	1	Splash	Yes	14" x 11"	5"	18 ga	2"	1	2	No	AC	40D721	—	—
	1	Splash	Yes	17" x 14"	7"	18 ga	2"	1	2	No	—	—	23PH32	40D696
	2	Splash	No	37" x 16½"	8"	16 ga	2"	2	2	No	AC	40D729	—	—
	2	Splash	No	37" x 16½"	8"	16 ga	2"	2	2	No	—	—	23PH41	40D727
	2	Splash	No	37" x 16½"	8"	16 ga	2"	2	2	No	Battery	40D730	—	—
	2	Splash	No	45" x 16½"	5"	16 ga	2"	2	2	Yes	Battery	28DV74	—	—
	2	Splash	No	45" x 16½"	5"	16 ga	2"	2	2	Yes	AC	28DV73	—	—
	3	Splash	No	57" x 16½"	8"	16 ga	2"	3	2	No	AC	40D737	—	—
	3	Splash	No	57" x 16½"	8"	16 ga	2"	3	2	No	Battery	40D738	—	—
	3	Splash	No	57" x 16½"	8"	16 ga	2"	3	2	No	—	—	23PH42	40D735
	3	Splash	No	65" x 16½"	5"	16 ga	2"	3	2	Yes	AC	36LH80	—	—
	4	Splash	No	77" x 16½"	8"	16 ga	2"	4	2	No	—	—	23PH43	40D743
	4	Splash	No	80" x 16½"	8"	16 ga	2"	4	2	No	AC	40D745	—	—
	4	Wall	No	77" x 16½"	8"	16 ga	2"	4	2	No	Battery	40D746	—	—
	5	Splash	No	97" x 16½"	8"	16 ga	2"	5	2	No	—	—	28DV81	28DV82
	5	Splash	No	97" x 16½"	8"	16 ga	2"	5	2	No	AC	28DV84	—	—
	6	Splash	No	117" x 16½"	8"	16 ga	2"	6	2	No	AC	40D753	—	—
	6	Splash	No	117" x 16½"	8"	16 ga	2"	6	2	No	—	—	23PH44	40D751
Scrub-Ware	1	Wall	No	15¼" x 33"	14⅜"	16 ga	3"	1	1.2	Yes	—	45ND44	—	—
	1	Wall	No	17¼" x 25½"	11"	16 ga	3"	1	1.2	No	—	45ND41	—	—
	3	Wall	No	17¼" x 85½"	11"	16 ga	3"	3	1.2	No	—	45ND43	—	—

Brand	Bowl Size L x W	Bowl Depth	Overall Height	Gauge	Drain Opening	ADA Compliant	Number of Stations: 1 Item No.	2 Item No.	3 Item No.
Without Faucet									
1 Pre-Cut Or Knockout Holes For Single Hole Faucets									
Sani-Lav	16" x 12½"	6"	15 in	16 ga	2"	No	48PY41	—	—
Sani-Lav	22" x 16½"	10½"	18 ½ in	14 ga	3½"	No	46CF19	—	—
2 Pre-Cut Or Knockout Holes For Centerset Faucets									
Sani-Lav	14" x 11"	5"	13 in	18 ga	2"	No	18D857	—	—
2 Pre-Cut Or Knockout Holes For Single Hole Faucets									
Sani-Lav	45" x 16½"	5"	16 in	16 ga	2"	Yes	—	46CF15	—
2 Pre-Cut Or Knockout Holes For Widespread Faucets									
Sani-Lav	27" x 16½"	5"	15 ½ in	16 ga	2"	Yes	48PY10	—	—
3 Pre-Cut Or Knockout Holes For Single Hole Faucets									
Sani-Lav	65" x 16½"	5"	16 in	16 ga	2"	Yes	—	—	46CF16
4 Pre-Cut Or Knockout Holes For Widespread Faucets									
Sani-Lav	37" x 16½"	8"	18 in	16 ga	2"	No	—	5LYA6	—

Description	Mfr. Model	Item No.
Parts & Accessories for Sani-Lav Sinks		
Cold Faucet Valve Repair Kit	1062-CL	40D756
Double Foot Pedal Valve	105L	40D759
Double Knee Pedal Valve	111L	40D758
Hot Faucet Valve Repair Kit	1062-HL	40D757
Liquid Soap Dispenser, 32 oz.	568	5WNH8
Mixing Check Valve, 4¼" W x 2¾" H	201L	40D761
OEM Floor mounted Double Foot Pedal Valve	101L	40D762
Replacement Kit for all Sani-Lav Valves	1061L	40D760
Single Foot Operated Valve for SANI-LAV Floor Mount Sinks	106L	46CF07
Single Knee Pedal Valve	112L	40D763
Sink Strainer	1010	5WNH6
Splash Mount Swivel Spout, Splash Mount 12 in H	2003L	40D755
Strainer Assembly for Most Industrial Scrub Sinks	1011	46CF21
Parts & Accessories for Advance Tabco Sinks		
Bolt On Side Splash for 11U387 & 7-PS-25	7-PS-27D	11U395
Bolt On Side Splash for 14" x 10" Bowl Hand Sink w/ 2¾" Backsplash	7-PS-27-X	11U393
Bolt On Side Splash for 9" x 9" Bowl Hand Sink w/ 2¾" Backsplash	7-PS-27A	11U394
Replacement Cartridges: 1-Hot/1-Cold	K-00A	52CF23
Replacement Handle for Splash Mount Faucets	K-316-LU-X	11U390

For Sink Material and Bowl Size, see page 2725.

SANI-LAV

Freestanding Hand Sinks & Hand Wash Stations

Freestanding stainless steel sinks are supported by four legs, feature a deep bowl for scrubbing and rinsing, and allow clearance below the sink for cleaning or storage purposes. These all-purpose sinks are found in schools, factories, and lavatories.

Sinks With Faucets—Sensor models have an AC- or battery-powered sensor to activate water flow and a mixing check valve. All faucets are gooseneck with single hole installation, except wristblade handles are 8" center. 2 gpm flow rate.

Sinks Without Faucets—Sinks have openings for drainage and additional ⅞" holes in the splash for mounting faucets.

Dual Foot Pedal 40D701

No. of Stations	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Mounting Location - Faucet	Drain Opening	Includes Side Splash	Dual Foot Pedal Item No.	Sensor, AC Powered Item No.	Sensor, Battery Powered Item No.	Single Foot Pedal Item No.	Wristblade Handles, 8 in Center Item No.
With Faucet												
1	41½"	17" x 14"	7"	18 ga	Splash	2"	No	**40D701**	**40D703**	**40D704**	**23PH34**	**40D702**
	41½"	17" x 14"	7"	18 ga	Splash	2"	Yes	**40D705**	**40D707**	**40D708**	**23PH35**	**40D706**
	41½"	19" x 16"	10"	18 ga	Splash	2"	No	**40D713**	**40D715**	**46CF08**	**23PH36**	**40D714**
	45½"	22" x 16½"	10½"	14 ga	Deck	3½"	No	—	**36LH85**	**36LH86**	—	—
	45½"	22" x 16½"	10½"	14 ga	Splash	3½"	No	**36LH83**	—	—	**36LH82**	**36LH84**
	45½"	28" x 16½"	10½"	14 ga	Splash	3½"	No	**36LH88**	**36LH90**	**36LH91**	**36LH87**	**36LH89**
2	45"	37" x 16½"	8"	16 ga	Splash	2"	No	**40D723**	**40D725**	**40D726**	**23PH37**	**40D724**
3	45"	57" x 16½"	8"	16 ga	Splash	2"	No	**40D731**	—	—	**23PH38**	**40D732**
	45"	57" x 16½"	8"	16 ga	Wall	2"	No	—	**40D733**	**40D734**	—	—
4	45"	77" x 16½"	8"	16 ga	Splash	2"	No	**40D739**	**40D741**	**40D742**	**23PH39**	**40D740**
6	45"	117" x 16½"	8"	16 ga	Splash	2"	No	**40D747**	**4TAH6**	**40D750**	**23PH40**	**40D748**

5-Station Without Faucet 46CF12

No. of Stations	Overall Height	Bowl Size L x W	Bowl Depth	Gauge	Faucet Mounting Centers	Number of Faucet Holes	Drain Opening	Includes Side Splash	Item No.
Without Faucet									
1	45 ½ in	28" x 16½"	10½"	14 ga	—	1	3½"	No	**46CF18**
2	45 in	37" x 16½"	8"	16 ga	8"	4	2"	No	**5LYA2**
3	45 in	57" x 16½"	8"	16 ga	8"	6	2"	No	**5LYA3**
4	45 in	77" x 16½"	8"	16 ga	8"	8	2"	No	**5LYA4**
5	45 in	97" x 16½"	8"	16 ga	8"	10	2"	No	**46CF12**

Foot Pedal 10A312

Foot Pedal 10A316

Push Button 3FLX7

Sensor 3FLV6

Sensor 10A323

Wash Fountains

Large wash basins allow several people to simultaneously wash their hands. Water spray is activated by foot controls, push buttons, or touchless sensors, which shut off automatically. Wash fountains provide more hand washing stations per square foot than conventional lavatory sinks and can accommodate more users in high-traffic areas, such as restrooms in schools, stadiums, and airports. **Foot Pedal-Operated Wash Fountains** are hands-free and activated by users stepping on a large foot pedal or bar. Stepping off the pedal or bar stops the flow of water. **Push Button-Operated Wash Fountains** deliver metered water for washing hands then automatically shut off to save water. **Sensor-Operated Wash Fountains** are hands-free and activated by a sensor that automatically starts and stops the flow of water.

Foot Valve 2NY93

Brand	Series	Color	Sink Material	Bowl Shape	Mounting Type - Sinks	Drain Type	Indoor/ Outdoor Usage	Overall Length	Overall Width	Overall Height	ADA Compliance	Mfr. Model	Item No.
Foot Pedal-Operated Wash Fountains													
2 Washing Stations													
Acorn	3401 Series	Black, Silver	Stainless Steel	Oval	Wall	P-Trap by Others	In	27½"	17¼"	22½"	No	3402-2-F-VPB-MXTP	**10A312**
3 Washing Stations													
Acorn	3543 Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	No	3543-2-F-DV-VPB-MXTP	**10A316**
Acorn	3562 Series	Black, Silver	Stainless Steel	Corner	Wall	P-Trap by Others	In	37"	37"	44"	No	3563-2-F-DV-VPB-MXTP	**10A314**
Bradley	Bradstone Classic	Carbon	Bradstone	Semi-Circular	Wall	Off-Line Vent, Supplied From Above	In/Out	25¾"	36"	42½"	No	S93-595	**1MEU8**
Bradley	Bradstone Classic	Carbon	Bradstone	Semi-Circular	Wall	Special Vented Trap, Supplied From Above	In/Out	25¾"	36"	42½"	No	S93-596	**1MEU9**
Bradley	Bradstone Classic	Sandbox	Bradstone	Semi-Circular	Floor	A	In/Out	25¾"	36"	42½"	No	S93-570	**4DU51**
Bradley	Bradstone Classic	Sandbox	Bradstone	Semi-Circular	Floor	Central Rising	In/Out	25¾"	36"	42½"	No	S93-571	**4DU52**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Semi-Circular	Floor	Central Rising, Supplied From Above	In/Out	25¾"	36"	42⅜"	No	S93-529	**4DU60**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Semi-Circular	Floor	Off-Line Vent	In/Out	25¾"	36"	42⅜"	No	S93-528	**4DU59**

CONTINUED

For Sink Material and Bowl Size, see page 2725.

CONTINUED

Wash Fountains

Brand	Series	Color	Sink Material	Bowl Shape	Mounting Type - Sinks	Drain Type	Indoor/ Outdoor Usage	Overall Length	Overall Width	Overall Height	ADA Compliance	Mfr. Model	Item No.
Foot Pedal-Operated Wash Fountains (Cont.)													
4 Washing Stations													
Acorn	3543 Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	No	3544-2-F-DV-VPB-MXTP	**10A318**
Bradley	Bradstone Classic	Carbon	Bradstone	Semi-Circular	Wall	Special Vented Trap, Supplied From Above	In/Out	35¼"	54"	46"	No	S93-598	**1MEV2**
Bradley	Bradstone Classic	Carbon	Bradstone	Semi-Circular	Wall	Standard	In/Out	35¼"	54"	46"	No	S93-597	**1MEV1**
Bradley	Bradstone Classic	Sandbox	Bradstone	Semi-Circular	Floor	Off-Line Vent	In/Out	35¼"	54"	46"	No	S93-566	**4DU53**
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Floor	Off-Line Vent	In/Out	25¼"	54"	44"	Yes	S93-631	**3FLV8**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Semi-Circular	Floor	Central Rising, Supplied From Above	In/Out	35¼"	54"	45⅞"	No	S93-531	**4DU62**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Semi-Circular	Floor	Off-Line Vent	In/Out	35¼"	54"	45⅞"	No	S93-530	**4DU61**
5 Washing Stations													
Bradley	Bradstone Classic	Carbon	Bradstone	Circular	Floor	Special Vented Trap, Supplied From Above	In/Out	36"	36"	42½"	No	S93-600	**1MEV4**
Bradley	Bradstone Classic	Carbon	Bradstone	Circular	Floor	Standard	In/Out	36"	36"	42½"	No	S93-599	**1MEV3**
Bradley	Bradstone Classic	Sandbox	Bradstone	Circular	Floor	Central Rising	In/Out	36"	36"	42½"	No	S93-569	**4DU56**
Bradley	Bradstone Classic	Sandbox	Bradstone	Circular	Floor	Off-Line Vent	In/Out	36"	36"	42½"	No	S93-568	**4DU55**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Circular	Floor	Off-Line Vent	In/Out	36"	36"	50¾"	No	S93-532	**4DU63**
6 Washing Stations													
Acorn	3506 Series	Black, Silver	Stainless Steel	Circular	Floor	P-Trap by Others	In	38¼"	38¼"	44"	No	3506-3-F-BO-DV-VPB-MXTP	**10A320**
8 Washing Stations													
Acorn	3506 Series	Black, Silver	Stainless Steel	Circular	Floor	P-Trap by Others	In	54"	54"	44"	No	3508-3-F-BO-DV-VPB-MXTP	**10A322**
Bradley	Bradstone Classic	Carbon	Bradstone	Circular	Floor	Standard	In/Out	54"	54"	42½"	No	S93-601	**1MEV5**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Circular	Floor	Central Rising, Supplied From Above	In/Out	54"	54"	54¼"	No	S93-535	**4DU66**
Bradley	Stainless Steel Classic	Silver	Stainless Steel	Circular	Floor	Off-Line Vent, Supplied From Below	In/Out	54"	54"	54¼"	No	S93-534	**4DU65**
Push Button-Operated Wash Fountains													
3 Washing Stations													
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Wall	Central Rising	In/Out	26"	36"	44"	Yes	S93-648	**3FLX7**
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Wall	Off-Line Vent, Supplied From Above	In/Out	26"	36"	44"	Yes	S93-647	**3FLX6**
Sensor-Operated Wash Fountains													
1 Washing Station													
Bradley	SafeCare	Sand	Terreon	D-Shape	Wall	Standard	In/Out	21¼"	21¼"	20½"	Yes	S93-726	**46KK22**
2 Washing Stations													
Acorn	3401 Series	Black, Silver	Stainless Steel	Oval	Wall	P-Trap by Others	In	27½"	17¼"	22½"	No	3402-2-SO-VPB-MXTP	**10A313**
Bradley	Express	Empire Gray	Terreon	Rectangular	Wall	Standard	In	50"	21½"	41"	Yes	S93-723	**46KK19**
3 Washing Stations													
Acorn	3423ADA Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	Yes	3423-ADA-1-SO-DV-VPB-MXTP	**10A324**
Acorn	3543 Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	No	3543-2-SO-DV-VPB-MXTP	**10A317**
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Floor	Off-Line Vent	In/Out	26"	36"	44"	Yes	S93-629	**3FLV6**
4 Washing Stations													
Acorn	3423ADA Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	Yes	3424-ADA-1-SO-DV-VPB-MXTP	**10A325**
Acorn	3543 Series	Black, Silver	Stainless Steel	Semi-Circular	Wall	P-Trap by Others	In	38"	32"	44"	No	3544-2-SO-DV-VPB-MXTP	**10A319**
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Floor	Central Rising	In/Out	25¼"	54"	44"	Yes	S93-634	**3FLW2**
Bradley	Sentry	Silver	Stainless Steel	Semi-Circular	Floor	Off-Line Vent, Supplied From Above	In/Out	25¼"	54"	44"	Yes	S93-633	**3FLW1**
6 Washing Stations													
Acorn	3506 Series	Black, Silver	Stainless Steel	Circular	Floor	P-Trap by Others	In	38¼"	38¼"	44"	No	3506-3-SO-BO-DV-VPB-MXTP	**10A321**
8 Washing Stations													
Acorn	3506 Series	Black, Silver	Stainless Steel	Circular	Floor	P-Trap by Others	In	54"	54"	44"	No	3508-3-SO-BO-DV-VPB-MXTP	**10A323**

Item	For Use With	Mfr. Model	Item No.
Wash Fountain Parts and Accessories			
Acorn			
Air Control Push Button Assembly	Acorn Air-trol Valves, Acorn Lavatories, BestCare Faucets	2566-025-001	**19C796**
Electric Eye Sensor	Acorn Wash Fountains	2562-335-000	**19C770**
Eye Sensor Assembly 9V	Acorn Wash Fountains	2562-373-001	**19C771**
Foot Button Assembly	Acorn Wash Fountains	2566-010-001	**19C773**
Hand Operated Escutcheon Retainer	Acorn Air-trol Valves, Acorn Lavatories, BestCare Faucets	2566-022-000	**19C795**
Latching Solenoid, 9V	Acorn Wash Fountains	2563-326-001	**19C772**
Nozzle Assembly	Acorn Wash Fountains	2998-212-001	**19C810**
Nozzle Assembly, Straight	Acorn Wash Fountains	2998-200-001	**19C809**
Orifice Plate Spring	Acorn Air-trol Valves	2563-008-001	**19C793**
Soap Dispenser Assembly	Acorn Wash Fountains	1451-010-001	**19C768**
Tinnerman Nut	Acorn Showers, Acorn Wash Basins, Acorn and BestCare Toilets, Acorn Lavatories, Acorn Wash Fountains	0316-018-000	**19C766**
Vandal Resistant Nozzle Assembly	Acorn Wash Fountains	2998-016-000	**19C775**
Vandal Resistant Spray Nozzle, Female	Acorn Wash Fountains	2998-017-000	**19C776**
Acorn Controls			
Tempering Valve	Commercial Sink or Lavatory Applications	ST70-12	**30VX83**
Bradley			
Closed Body Solenoid Valve 24VAC	Wash Fountains	S07-068S	**3FMA3**
Foot Lever	Wash Fountains	143-025	**2NY84**
Foot Lever	Wash Fountains with 36 in Bowl Widths	143-027	**2NY85**
Foot Lever Pivot Pin	Wash Fountains	152-026	**2NY86**
Foot Lever Spring	Wash Fountains	135-001W	**2NY83**
Foot Valve	Wash Fountains	S07-066	**2NY93**
Foot Valve Repair Kit	S07-066 Foot Valves Shipped AFTER January 2003	S65-230	**2PA13**
Foot Valve Repair Kit	Wash Fountains	S65-001A	**3FMD3**
Liquid Soap Valve Repair Kit	Wash Fountains	S09-007S	**2NY94**
Manual Mixing Valve	Wash Fountains	S01-038S	**2NY88**
Manual Mixing Valve Repair Kit	Wash Fountains	S45-197	**2PA10**
Mixing Valve	Wash Fountains	S01-525S	**2NY89**
Operating Cross	Wash Fountains	159-019	**2NY87**
Operating Rod Assembly	Wash Fountains	S14-007	**2NY97**
Powdered Soap Valve	Wash Fountains	S09-010A	**2NY95**
Sensor/Adaptive	Wash Fountains	269-1608	**3FMC1**
Soap Filler Hole Cap	Wash Fountains	S10-004	**2NY96**
Solenoid Valve Closed Body	Wash Fountains	S07-067S	**3FMA5**
Solenoid Valve Through Body	Wash Fountains	S07-067AS	**3FMA6**
Sprayhead Assembly	Wash Fountains, Circular Models Only	S05-054	**2NY91**
Sprayhead Assembly	Wash Fountains, Semi-Circular Models Only	S05-054B	**2NY92**
Sprayhead Grommet Circle	Wash Fountains	124-020C	**2NY77**
Sprayhead Grommet Semi	Wash Fountains	124-020D	**2NY78**
Sprayhead Repair Kit	Wash Fountains	S45-051	**2NY99**
Stop, Strainer, Check Valve Repair Kit	Wash Fountains	S45-050	**2NY98**
Stop Strainer, Check Valve Kit	Wash Fountains	S60-003	**2PA12**
Support Tube Gasket	Wash Fountains, Bradstone® Construction	125-011	**2NY80**
Support Tube Gasket	Wash Fountains, Stainless Steel Construction	125-008	**2NY79**
Tail Piece	Wash Fountains	129-009	**2NY82**
Tail Piece Nut	Wash Fountains	110-005	**2NY75**
Through Body Solenoid Valve, 24VAC	Wash Fountains	S07-068AS	**3FMA4**
Unplated Tail Piece	Wash Fountains	129-007	**2NY81**
Volume Control Valve	Wash Fountains	S02-045	**2NY90**
Volume Control Valve Repair Kit	Wash Fountains	S45-198	**2PA11**
Washer	Wash Fountains	124-001AF	**2NY76**
Wash Fountain Leg - Standard Height	Wash Fountains	193-002	**3FMD1**
Window- IR Sensor	Wash Fountains	269-1190	**3FMC7**

For Sink Material and Bowl Size, see page 2725.

POLYJOHN

Portable Hand Wash Stations

- Granite color

Self-contained, hands-free foot-pump operated mobile units provide fresh water for washing hands in busy outdoor settings such as festivals, playgrounds, and construction sites.

Series	Includes Water Heater	Overall Length	Overall Width	Overall Height	Fresh Water Capacity	Gray Water Capacity	Item No.
2 Person							
Applause	No	50½"	21¹¹⁄₁₆"	47½"	60 gal	60 gal	**3HET8**
Applause Direct Connect	No	50½"	21¹¹⁄₁₆"	47½"	60 gal	60 gal	**3HET9**
Bravo	No	26½"	21½"	62"	22 gal	24 gal	**3HET6**
Bravo	Yes	26½"	21½"	62"	22 gal	24 gal	**3HET7**
4 Person							
PS14	No	22½"	22½"	58"	20 gal	22 gal	**3HEU1**

3HET8

3HET6

3HEU1

EAGLE · FIAT PRODUCTS · ADVANCE TABCO · SANI-LAV · ELM

Freestanding Utility & Laundry Sinks

Service sinks include a deep bowl for scrubbing and rinsing large or bulky items such as laundry, machine parts, dishes, pots, and pans. They are commonly used in kitchens, schools, and hotels.

Brand	Sink Material	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Drain Opening	Flow Rate (gpm)	Faucet Spout Shape	Mounting Location - Faucet	Number of Faucet Holes	Item No.
One-Bowl With Faucets												
Dual Knob Handles With 4 in Mounting Centers												
Mustee	Polypropylene	24"	20"	34"	24" x 20"	13"	1½"	—	—	Deck	3	**1RLN8**
Dual Lever Handles With 8 in Widespread Mounting												
Eagle	Stainless Steel	19⅜"	22"	39½"	18" x 18"	13¾"	3½"	2.2	Angled Straight	Splash	2	**4AVH2**
	Stainless Steel	19⅜"	25"	39½"	18" x 21"	13¾"	3½"	2.2	Angled Straight	Splash	2	**4NNH4**
	Stainless Steel	25⅜"	28"	39½"	24" x 24"	13¾"	3½"	2.2	Angled Straight	Splash	2	**4AVH3**
Dual Wristblade Handles With 4 in Mounting Centers												
Fiat	Fiberglass Mix	24"	20"	33¾"	20⅛" x 17¾"	13⅜"	2"	1.5	Mid Arc	Deck	4	**5NFL8**
Two-Bowl With Faucets												
Dual Lever Handles With 8 in Widespread Mounting												
Eagle	Stainless Steel	37⅜"	22"	39½"	18" x 18"	13¾"	3½"	2.2	Angled Straight	Splash	2	**4AVH4**
	Stainless Steel	37⅜"	25"	39½"	18" x 21"	13¾"	3½"	2.2	Angled Straight	Splash	2	**1XUD1**
	Stainless Steel	49⅜"	28"	39½"	24" x 24"	13¾"	3½"	2.2	Angled Straight	Splash	2	**4AVH5**

Brand	Sink Material	Overall Length	Overall Width	Overall Height	Bowl Size L x W	Bowl Depth	Drain Opening	Mounting Location - Faucet	Number of Faucet Holes	Item No.
One-Bowl Without Faucets										
2 Pre-Cut or Knockout Holes For 8 in Widespread Mounting										
Adv. Tabco	Stainless Steel	24"	27½"	39"	24" x 24"	13"	3½"	Splash	2	**11U343**
	Stainless Steel	36"	27½"	39"	36" x 24"	13"	3½"	Splash	2	**11U344**
	Stainless Steel	18"	21½"	41"	18" x 18"	14"	3½"	Splash	2	**11U342**
	Stainless Steel	24"	24½"	41"	24" x 21"	14"	3½"	Splash	2	**3LMR6**
—	Stainless Steel	36"	24½"	41"	36" x 21"	14"	3½"	Splash	2	**9E048**
Sani-Lav	Stainless Steel	21"	21½"	45½"	18" x 18"	12"	3½"	Splash	2	**48PY19**
	Stainless Steel	27"	27½"	45½"	24" x 24"	12"	3½"	Splash	2	**48PY20**
3 Pre-Cut or Knockout Holes For 4 in Mounting Centers										
Mustee	Polypropylene	24"	20"	34"	24" x 20"	13"	1½"	Deck	3	**1RLN7**
4 Pre-Cut or Knockout Holes For Centerset, Widespread Mounting										
Fiat	Fiberglass Mix	24"	20"	33¾"	20⅛" x 17¾"	13⅜"	1¼"	Deck	4	**5NFL6**
Two-Bowl Without Faucets										
2 Pre-Cut or Knockout Holes For 8 in Widespread Mounting										
Adv. Tabco	Stainless Steel	36"	24½"	41"	36" x 21"	14"	3½"	Splash	2	**9RNF2**
	Stainless Steel	48"	24½"	41"	36" x 21"	13"	3½"	Splash	2	**11U346**
3 Pre-Cut or Knockout Holes For 4 in, 8 in Mounting										
Mustee	Polypropylene	24"	40"	34"	24" x 20"	12¾"	1½"	Deck	3	**4ARZ3**
Three-Bowl Without Faucets										
2 Pre-Cut or Knockout Holes For 8 in Widespread Mounting										
Adv. Tabco	Stainless Steel	54"	24½"	41"	54" x 21"	14"	3½"	Splash	2	**11U349**

Polypropylene
1RLN8

Stainless Steel
1XUD1

4ARZ6

ELM

Counter-Mounted Drop-In Utility & Laundry Sinks

Utility sinks have a deep single bowl, an opening for drainage, and are made of SMC Fiberglass for extra strength and durability. They "drop" into a hole in the countertop and have an edge that overhangs the countertop to keep it in place. Sink accommodates a single- or dual-handle faucet with a 4" center that mounts to the deck.

Overall Length	Overall Width	Overall Height	Bowl Size	Bowl Depth	Drain Opening	Mfr. Model	Item No.
20"	17"	10"	14" x 15"	9½"	3½"	11	**4ARZ5**
22"	25"	13¾"	21⅜" x 15¾"	13¼"	1½"	10	**4ARZ6**

FIAT PRODUCTS · ADVANCE TABCO · ELM

Wall-Mounted Utility & Laundry Sinks

These service sinks eliminate the need for cabinetry and provide storage space below the sink. They install directly on walls and have a deep bowl for soaking, scrubbing, or rinsing.

Brand	Sink Material	Color	Bowl Size L x W	Bowl Depth	Faucet Hole Dia.	Number of Faucet Holes	Flow Rate (gpm)	Drain Opening	Mfr. Model	Item No.
With Mid Arc Faucet, Deck Mount										
Dual Wristblade Handles With 4 in Mounting Centers										
Fiat	Molded Stone	White	20⅛" x 17¾"	13⅜"	1⅜"	4	1.5	2"	L7TG100	**5NFL9**

Brand	Sink Material	Gauge	Color	Bowl Size L x W	Bowl Depth	Faucet Hole Dia.	Drain Opening	Item No.
Without Faucets								
2 Pre-Cut or Knockout Holes For 8 in Widespread Mounting								
Adv. Tabco	Stainless Steel	14 ga	Silver	23" x 19½"	10"	1 ⅛"	3½"	**11U340**
	Stainless Steel	14 ga	Silver	27" x 21½"	12"	1 ⅛"	3½"	**11U341**
	Stainless Steel	16 ga	Silver	18" x 14"	12"	1 ⅛"	3½"	**11U338**
	Stainless Steel	16 ga	Silver	22" x 16"	12"	1 ⅛"	3½"	**11U339**
3 Pre-Cut or Knockout Holes For 4 in Mounting Centers								
Mustee	Polypropylene	—	White	24" x 20"	14⅜"	1", 1 ⅛"	1½"	**4ARZ2**
3 Pre-Cut or Knockout Holes For 4 in, 8 in Mounting								
Mustee	Polypropylene	—	White	24" x 40"	14⅜"	1", 1 ⅛"	1½"	**4ARZ4**
4 Pre-Cut or Knockout Holes For 4 in, 8 in Mounting								
Fiat	Molded Stone	—	White	20⅛" x 17¾"	13⅜"	1 ⅜"	2"	**5NFL7**

5NFL9

11U339

4ARZ2

For Sink Material and Bowl Size, see page 2725.

1RLN4

11U264

Mop Sinks

- 3" drain

Sinks allow personnel to rinse mops and empty bucket contents with minimal lifting or strain. They are typically mounted on or near the floor in janitorial closets or maintenance rooms. **Corner Mop Sinks** install in corners to maximize space. **Mop Sinks with Drop Front** have a shorter or notched side for easy pouring. **Mop Sink Bowls** have higher sides to contain water splashes inside the sink.

Brand	Sink Material	Overall Dim. L	W	H	Bowl Size L x W	Bowl Depth	Color	Mfr. Model	Item No.
Corner Mop Sinks									
Fiat	Terrazzo	24"	24"	12"	20" x 20"	10"	Gray, White	TSBC6000501	**11U255**
Corner Mop Sinks with Drop Front									
Fiat	Terrazzo	24"	24"	12"	24" x 24"	12"	Gray, White	TSBC1610501	**5NFN5**
Mop Sink Bowls									
Fiat	Terrazzo	24"	24"	12"	20" x 20"	10"	Gray, White	TSB100501	**5NFN1**
	Terrazzo	36"	24"	12"	32" x 20"	10"	Gray, White	TSB800501	**11U258**
Mustee	SMC Fiberglass	24"	24"	10"	24" x 24"	10"	White	63M	**1RLN4**
	SMC Fiberglass	36"	24"	10"	24" x 36"	10"	White	65M	**11U263**
Mop Sink Bowls with Faucets, Lever Handle, Angled Straight Spout									
Fiat	Molded Stone	24"	24"	10"	23¾" x 23¾"	10"	White	MSBIDTG2424100	**5NFN0**
Mustee	SMC Fiberglass	24"	24"	10"	24" x 24"	10"	White	63CM	**11U264**
Mop Sinks with Drop Front									
Fiat	Terrazzo	24"	24"	12"	20" x 20"	10"	Gray, White	TSB3000501	**5NFN3**
	Terrazzo	36"	24"	12"	32" x 20"	10"	Gray, White	TSB3013501	**11U252**

Description	Brand	Mfr. Model	Item No.
Accessories			
31" L Rubber Hose and Stainless Steel Hanger	Fiat	832AA000	**11U260**
Mop Hanger, Stainless Steel, 24 in W x 3 ⅜ in H	Fiat	889CC000	**11U259**
Mop Sink Utility Shelf, Stainless Steel, 24 in L x 8 in W	Adv. Tabco	K-245	**11U336**
Mop Sink Utility Shelf, Stainless Steel, 36 in L x 8 in W	Adv. Tabco	K-246	**11U337**
Wall Guards, Stainless Steel, 24 in L x 12 in H	Mustee	67.2424	**1RLN6**

5H877

4PL52

3DVA2

HP	Connection Drain	Phase	Voltage	Overall Height	Grinding Chamber Capacity	Manufacturers Warranty	Mfr. Model	Item No.
Badger and Evolution Series								
⅓ hp	1 ½ in	Single	120	11 ⅜ in	26 oz	1 yr	BADGER 1	**5H502**
		Single	120	11 ⅜ in	26 oz	1 yr	BADGER 1 WITH CORD	**31EE15**
½ hp		Single	120	12 ⅝ in	26 oz	2 yr	BADGER 5	**5H877**
		Single	120	12 ⅝ in	26 oz	2 yr	BADGER 5 WITH CORD	**31EE16**
¾ hp		Single	120	12 ⅝ in	26 oz	3 yr	Badger 5 XP	**2YB90**
		Single	120	12 ⅛ in	35 oz	4 yr	Evolution Compact™	**2YB94**
		Single	120	12 ⅝ in	40 oz	4 yr	Evolution Septic Assist™	**2YB95**
1 hp		Single	120	13 ½ in	40 oz	7 yr	Evolution Excel™	**2YB91**
Essential XTR Series								
¾ hp	1 ½ in	Single	120	12 ¼ in	35 oz	6 yr	Essential XTR	**54DC92**

HP	Connection Drain	Phase	Voltage	Overall Height	Grinding Chamber Capacity	Mfr. Model	Item No.
Commercial Food Service Equipment							
½ hp	1 ½ in	Single	115/120	14 ¼ in	50 oz	LC-50-11	**4PL52**
1 hp		Single	115/208-230	17 in	85 oz	SS-100-28	**29NZ57**
		Three	208-230/460	17 in	85 oz	SS100-47	**29NZ58**
2 hp	2 in	Three	208-230/460	18 ⁷⁄₁₆ in	111 oz	SS200-35	**3DVA2**
3 hp	3 in	Three	208-230/460	23 ½ in	317 oz	SS-300-25	**29NZ61**
		Three	208-230/460	31 ⅛ in	317 oz	SS-300	**3DVA3**
5 hp		Three	208-230/460	20 in	317 oz	SS-500-30	**29NZ62**

For Use With	Material of Construc.	Sink/Bowl Hole Dia. (in.)	Mfr. Model	Item No.
Commercial Mounting Adapters				
Waste King	Steel	4½	11327-A	**4PL35**
Waste King		6	11327-D	**4PL36**
Bus Boy		6	11327-K	**4PL39**
Hobart		4½	11327-H	**4PL38**
Salvajor		6⅝	11599-H	**4PL41**

Food Waste Disposers

- Quiet Dura-Drive split-phase induction motors have permanently lubricated bearings
- Quick Lock mounting system for easy installation
- Intermittent-duty, except Commercial models are continuous-duty

1725 rpm, 60 Hz, with overload protection and manual reset.

BADGER SERIES

Include two 360° stainless steel swivel impellers, dishwasher drain connection, stainless steel sink flange, and self-service wrench. 31EE15 and 31EE16 include a power cord.

EVOLUTION SERIES

Stainless steel grind components ensure dependable performance. Multigrind 2- or 3-stage shredder and sound-reducing insulation. Sink baffle included.

Septic Assist, 2YB95

Bio-Charge technology injects a microorganism-rich solution that breaks down and liquefies waste for safe handling in a septic tank.

Excel, 2YB91

Jam-Sensor circuit automatically increases motor torque up to 500%.

ESSENTIAL XTR

Features SoundSeal technology for quiet operation and MultiGrind technology that provides 2 grinding stages versus 1 stage in many standard disposers. Includes a SinkTop Switch accessory with button and power to ease activation.

COMMERCIAL FOOD SERVICE EQUIPMENT

- 1-yr. manufacturer's warranty

Note: New installations require a mounting adapter, sold separately on this page or go to Grainger.com and search for "disposer, mounting adapter."

LC-50

Automatic reversing motor provides longer life and trouble-free operation. Stainless steel grind chamber. Disposer mounting included.

SS Series

Triple-lip motor seal protects motor from water damage while a secondary spring-loaded oil seal provides double protection against water and loss of grease. Cast nickel-chrome alloy stationary and rotating shredding elements provide long life and corrosion resistance and are designed for reverse-action grinding. Feature overload protection and stainless steel grind chamber.

COMMERCIAL MOUNTING ADAPTERS

Use to mount commercial food waste disposer to sink.

1WXD7

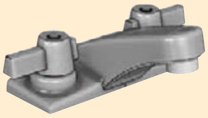
Grease and Lint Interceptors

Endura models have 1-pc. plastic tank with an airtight silicone seal, easy-to-open latching system, and an innovative removable baffle design. 40D985 and 40D986 have a removable dual-screen filtration system with coarse and fine screens. Watts models are epoxy-coated steel with removable baffle and deep seal trap with cleanout. Recessed or floor mounted. Zurn grease interceptors have a Dura-Coated steel body, flow diffusing baffle, integral trap, and external vented inlet flow control. The Lint Interceptor 38UK34 separates out solids such as buttons, lint, stones, and string, and can handle up to 3 washing machines. Unit features an acid-resistant coated interior and exterior, a nonskid secured cover with removable lift handle, aluminum lint intercepting secondary screen assembly, and permanent primary straining baffle with ⅜" dia. perforated holes. Model has a high inlet and low outlet.

Capacity	Material of Construction*	Pipe Dia. - Drains	Overall Height	Overall Width	Overall Depth	Brand	Item No.
Grease Interceptor							
14 lb	PP	2 in	16 ⁵⁄₁₆ in	14 ½ in	17 ½ in	Endura	**40D974**
20 lb	PP	2 in	16 ⁵⁄₁₆ in	14 ½ in	17 ½ in	Endura	**40D975**
30 lb	CFS	2 in	14 in	15 in	10 ½ in	Watts	**1WXD7**
	PP	2 in	16 ⁵⁄₁₆ in	23 ⅝ in	17 ½ in	Endura	**40D976**
40 lb	CFS	3 in	21 ½ in	24 ½ in	36 in	Zurn	**38UK33**
	PP	2 in	16 ⁵⁄₁₆ in	23 ⅝ in	17 ½ in	Endura	**40D977**
50 lb	CFS	3 in	17 in	19 ⅞ in	12 ½ in	Zurn	**4WPJ7**
	PP	2 in	16 ½ in	31 ¼ in	18 ½ in	Endura	**40D978**
	PP	2 in	11 in	31 in	23 ½ in	Endura	**40D979**
70 lb	CFS	4 in	18 ¾ in	22 ½ in	14 ¼ in	Zurn	**4WPJ8**
	PP	3 in	16 ½ in	31 ¼ in	18 ½ in	Endura	**40D980**
	PP	3 in	17 ½ in	31 in	23 ½ in	Endura	**40D981**
	PP	4 in	17 ½ in	31 in	23 ½ in	Endura	**40D982**
100 lb	CFS	4 in	21 ½ in	24 ½ in	16 in	Zurn	**4WPJ9**
	PP	3 in	23 ½ in	31 in	23 ½ in	Endura	**40D983**
	PP	4 in	23 ½ in	31 in	23 ½ in	Endura	**40D984**
Lint Interceptor							
—	CFS	2 in	16 ½ in	17 in	13 in	Zurn	**38UK34**
Solids Interceptor							
14 lb	PP	2 in	16 31/100 in	17 439/1000 in	12 ³⁄₃₂ in	Endura	**40D985**
Solids Interceptor Basket							
—	PP	2 in	14 8/25 in	13 397/500 in	11 ¹⁄₃₂ in	Endura	**40D986**

** PP=Polypropylene. CFS=Coated Fabricated Steel.*

Faucet Spout Shapes


Low-Arc—Short spout sits close to sink basin and reduces splashing.

Mid-Arc—Taller than low-arc-spout with a curve under spout with space for filling bigger vessels.

Straight—Spout extends straight out from faucet body.

Angled Straight—Spout extends straight out and points down into the sink at an angle.

Gooseneck—Tallest spout extends high above counter and curves to point directly into sink.

Single-Hole Deck-Mount Bathroom Faucets

Faucets install into one hole on a flat surface such as a sink or counter. Chrome finish.

Low-Arc-Spout Chicago Faucets 26Y238

Mid-Arc-Spout American Standard 448M96

Straight-Spout Grohe 448N48

Gooseneck-Spout Kohler 55VF49

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Flow Outlet Type	Drain Style	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout											
Chicago Faucets	700	Cross	Cast Brass	2.2 gpm	Aerated	—	3 ⅜ in	2 ⅝ in	Yes	700-HOTABCP	**26Y222** *
	700	Cross	Cast Brass	2.2 gpm	Aerated	—	3 ⅜ in	2 ⅝ in	No	700-COLDABCP	**26Y301** †
	701	Cross	Cast Brass	2.2 gpm	Aerated	—	3 ⅜ in	2 ⅝ in	No	701-HOTABCP	**26Y238** *
	701	Cross	Cast Brass	2.2 gpm	Aerated	—	3 ⅜ in	2 ⅝ in	No	701-COLDABCP	**26Y290** †
Delta	Classic	Joystick	Brass	1.5 gpm	Aerated	—	4 in	5 ⅞	Yes	570LF-WF	**41H852**
Moen	M-Dura	Joystick	Brass	2.2 gpm	Aerated	—	4 ⅜ in	3 ¾ in	Yes	8417	**4NEJ3**
Zurn	AquaSpec	Cross	Brass	0.5 gpm	Spray	—	3 ¾ in	2 ⅞ in	No	Z82702-XL-3M	**45K796**
	AquaSpec	Cross	Brass	2.2 gpm	Aerated	—	3 ¾ in	2 ⅞ in	No	Z82702-XL	**45K797**
Mid-Arc-Spout											
American Standard	Colony Pro	Joystick	Metal	1.2 gpm	Aerated	Drain with Pop-Up Rod	4 5/16 in	3 9/16 in	Yes	7075100.002	**448M96**
Straight-Spout											
American Standard	Berwick	Joystick	Cast Brass	1.2 gpm	Aerated	Drain with Pop-Up Rod	4 ⅜ in	2 ⅞ in	Yes	7430101.002	**48UL12**
Grohe	Concetto	Joystick	Brass	1.2 gpm	Aerated	Drain with Pop-Up Rod	3 15/16 in	2 ½ in	Yes	3427000A	**448N48**
Gooseneck-Spout											
Kohler	Triton Bowe™	Lever	Brass	1.0 gpm	Aerated	—	5 3/16 in		Yes	K-100T70-4AKA-CP	**493K06**
	Triton Bowe™	Wristblade	Brass	1.0 gpm	Laminar	Drain Not Included	5 ¼ in	11 ½ in	Yes	K-100T70-5AKL-CP	**55VF49**
	Triton Bowe™	Wristblade	Brass	1.0 gpm	Aerated	—	5 3/16 in		Yes	K-100T70-5AKA-CP	**493K07**

Valve type: * Hot cartridge. † Cold cartridge.

Metering-Handle Deck-Mount Bathroom Faucets

Metering handles allow users to push handle down to activate the faucet. No gripping required allowing those with limited mobility to operate faucet. Handle controls the start of water flow, but not the duration. Water flow shuts off automatically to save water in public or high-traffic restrooms. Deck-mount installs on a flat surface such as a sink or counter. Chrome finish. ADA Compliant.

Low-Arc-Spout American Standard 19T386

Low-Arc-Spout Moen 4NEF3

Low-Arc-Spout Moen 3RA70

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout									
1-Hole									
American Standard	Metering	Cast Brass	0.5 gpm	Spray	No	5 ⅜ in	2 in	1340M119.002	**19T386**
Chicago Faucets	333	Cast Brass	1.0 gpm	Aerated	No	3 ¾ in	2 ⅝ in	333-665PSHABCP	**3TFH2**
	333	Cast Brass	2.2 gpm	Aerated	No	3 ⅜ in	2 ⅝ in	333-336PSHABCP	**26Y224**
	807	Cast Brass	2.2 gpm	Aerated	No	4 ⅛ in	2 ¾ in	807-E12-665PAB	**26Y183**
Moen	M-Press	Brass	0.5 gpm	Aerated	No	4 ½ in	3 in	8884	**4NEF3**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	No	4 ¾ in	1 ⅜ in	Z86100-XL-CP4.0001	**46CE18**
	AquaSpec	Brass	0.5 gpm	Spray	No	3 ¾ in	1 ⅜ in	Z86100-XL-3M	**29VM05**
	AquaSpec	Brass	0.5 gpm	Spray	Yes	3 ¾ in	1 ⅜ in	Z86100-XL-3M-MY	**48UL48**
	AquaSpec	Brass	1.0 gpm	Aerated	No	3 ¾ in	1 ⅜ in	Z86100-XL	**4JPC8**
	AquaSpec	Cast Brass	0.5 gpm	Laminar	No	3 ⅞ in	9 ⅝ in	Z80300-XL	**24A612**
2-Hole									
American Standard	Metering	Cast Brass	1.0 gpm	Aerated	No	4 ⅝ in	2 ⅛ in	1340225.002	**1FYB7**
Chicago Faucets	3400	Cast Brass	0.5 gpm	Laminar	No	4 ¾ in	3 ⅞ in	3400-ABCP	**3TFH3**
	3600	Cast Brass	0.5 gpm	Spray	Yes	6 ⅝ in	4 ⅛ in	3600-E2805AB	**52CE54**
	802	Cast Brass	1.0 gpm	Aerated	No	4 in	2 ¾ in	802-V665ABCP	**3TFJ1**
Moen	M-Press	Brass	0.5 gpm	Aerated	No	4 ¾ in	3 ¾ in	8886	**3RA70**
Zurn	AquaSpec	Brass	1.0 gpm	Aerated	Yes	3 ¾ in	1 ⅜ in	Z86100-XL-CP4	**4JPC9**
	AquaSpec	Cast Brass	0.5 gpm	Aerated	Yes	4 ¼ in	3 ¼ in	Z86500-XL-3M	**29VL91**
3-Hole									
Chicago Faucets	404	Cast Brass	1.0 gpm	Aerated	No	5 in	2 ⅞ in	404-V665ABCP	**4KTK8**
	404	Cast Brass	2.2 gpm	Aerated	No	5 in	2 ⅞ in	404-665ABCP	**26Y206**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	No	6 ⅜ in	3 ¼ in	Z867R0-XL-3M	**46CE22**
	AquaSpec	Brass	1.0 gpm	Aerated	Yes	5 in	3 ¼ in	Z867R0-XL	**4JPD1**
Straight-Spout									
1-Hole									
Chicago Faucets	3500	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3500-E2805ABCP	**29RR59**
	3501	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3501-E2805ABCP	**29RR61**
	3502	Cast Brass	0.5 gpm	Spray	No	4 in	3 ¾ in	3502-E2805ABCP	**29RR62**
Gooseneck- Spout									
2-Hole									
Chicago Faucets	895	Cast Brass	1.0 gpm	Aerated	No	3 ½ in	9 ⅝ in	895-665ABCP	**5UTV3**

Low-Arc-Spout Zurn 4JPD1

Straight-Spout Chicago Faucets 29RR62

Gooseneck-Spout Chicago Faucets 5UTV3

For information on faucet spout shapes, see page 2733.

Low-Arc-Spout
Rubbermaid
19T379

Low-Arc-Spout
Sensorflo
55MJ12

Mid-Arc-Spout
American Standard
4THG4

Mid-Arc-Spout
Chicago Faucets
5UTX1

Straight-Spout
American Standard
41H809

Straight-Spout
Kohler
493J89

Straight-Spout
Kohler
493J90

Straight-Spout
Sloan
5YJP3

Angled Straight-Spout
Sloan
23MF35

Angled Straight-Spout
Sloan
23MF31

Gooseneck-Spout
American Standard
41H846

Gooseneck-Spout
Zurn
30PT27

Sensor Single-Hole Deck-Mount Bathroom Faucets

Hands-free touchless sensor starts or stops the flow of water to help reduce the spread of germs. Automatically turns off after a preset time. Presetting water temperature required. Deck-mount faucets install into one hole on sink or counter. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout										
Rubbermaid Commercial Products	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	3 31⁄32 in	1782742	**19T379**
	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	3 31⁄32 in	1818966	**35LX87**
	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	4 23⁄32 in	1818967	**35LX88** **
	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	4 23⁄32 in	1782743	**19T380** ††
	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	4 13⁄16 in	1782744	**19T381**
	Verona Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ¾ in	5 in	1903281	**35LX91**
Sensorflo	SENSORFLO®	Brass	0.5 gpm	Spray	AC Powered	No	6 ⅜ in	5 ½ in	SF-8800	**55MJ12**
	SENSORFLO®	Brass	0.5 gpm	Spray	AC Powered	No	7 in	4 ⅛ in	SF-9800	**55MJ27**
	SENSORFLO®	Brass	0.5 gpm	Spray	Battery	No	6 ⅜ in	5 ½ in	SF-8700	**55MJ09**
	SENSORFLO®	Brass	0.5 gpm	Spray	Battery	No	7 in	4 ⅛ in	SF-9700	**55MJ25**
Sloan	Optima	Brass	0.5 gpm	Laminar	Battery	Yes	4 ½ in	3 ½ in	EBF-615-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G78**
	Optima	Brass	0.5 gpm	Laminar	Battery	Yes	5 ⅛ in	5 ¾ in	EBF-187-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G77** ‡‡
	Optima	Brass	0.5 gpm	Laminar	Battery	Yes	5 ⅛ in	5 ¾ in	EBF-85-4-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G80**
	Optima	Brass	0.5 gpm	Laminar	Plug-In	Yes	5 ⅛ in	5 ¾ in	ETF-80-4-PLG-TEE-CP-0.5GPM-MLM-IR-FCT	**491G84**
Mid-Arc-Spout										
American Standard	Selectronic	Brass	0.5 gpm	Laminar	Lithium Battery	No	5 ⅛ in	5 ⅛ in	6055105.002	**4THG4**
	Selectronic	Cast Brass	0.35 gpm	Aerated	Lithium Battery	No	3 3⁄16 in	5 ⅛ in	6055104.002	**24X048**
	Selectronic	Cast Brass	1.5 gpm	Aerated	Lithium Battery	No	3 3⁄16 in	5 ⅛ in	6055102.002	**41H818**
Chicago Faucets	EQ Curved	Cast Brass	0.5 gpm	Laminar	(6) AA Batteries	No	4 ½ in	5 ⅞ in	EQ-A11A-11ABCP	**48TF07** †
	EQ Curved	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	4 ½ in	5 ⅞ in	EQ-A11A-13ABCP	**48TF09** †
	EQ High Arc	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	No	4 ½ in	6 ⅛ in	EQ-C11A-11ABCP	**48TF13** †
	E-Tronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	No	5 ⅜ in	6 ½ in	116.606.AB.1	**5UTP4**
	E-Tronic	Cast Brass	0.5 gpm	Laminar	AC Powered	No	5 ⅜ in	6 ½ in	116.706.AB.1	**5UTP5**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 ½ in	6 ⅝ in	116.211.AB.1	**5UTW8**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 ½ in	6 ⅝ in	116.221.AB.1	**5UTX0**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 ½ in	6 ⅝ in	116.201.AB.1	**6XAE7**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 ⅛ in	7 ½ in	116.212.AB.1	**5UTW9**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 ⅛ in	7 ½ in	116.222.AB.1	**5UTX1**
	HyTronic	Cast Brass	0.5 gpm	Laminar	AC Powered	No	5 ⅛ in	6 ⅝ in	116.101.AB.1	**5UTN7**
	HyTronic	Cast Brass	0.5 gpm	Laminar	AC Powered	No	5 ⅛ in	7 ½ in	116.112.AB.1	**5UTP0**
	HyTronic	Cast Brass	0.5 gpm	Laminar	AC Powered	Yes	5 ½ in	6 ⅝ in	116.111.AB.1	**5UTN9**
Kohler	Kinesis™	Brass	0.5 gpm	Aerated	Battery	No	4 ⅞ in	6 13⁄16 in	K-104B76-SANA-CP	**55VF31**
Sloan	—	Brass	0.5 gpm	Aerated	6V DC Plug-In Power Converter	No	3 ⅞ in	4 ½ in	SF2100-4	**5UVA1**
	—	Brass	0.5 gpm	Laminar	6V DC Plug-In Power Converter	No	4 ½ in	6 in	SF2400-4	**5UVA4**
	—	Brass	0.5 gpm	Laminar	Battery	No	3 ⅞ in	4 ½ in	SF2150-4	**5WHW8**
	—	Brass	0.5 gpm	Laminar	Battery	No	4 ½ in	6 in	SF2450-4	**5WHX1**
	Optima	Brass	1.5 gpm	Aerated	Battery	Yes	5 9⁄16 in	6 ⅞ in	EAF150-ISM	**5YJP2**
	Optima	Brass	2.2 gpm	Aerated	Hardwired	Yes	5 9⁄16 in	6 ⅞ in	EAF100-P-ISM	**5YJP1**
Toto	Tel101	Brass	0.18 gpc	Aerated	Hydropowered	No	3 15⁄16 in	4 ½ in	TEL101-D10E#CP	**53CH66**
	Tel105	Brass	0.09 gpm	Aerated	Hydropowered	Yes	3 15⁄16 in	4 ½ in	TEL105-D10ET#CP	**53CH70**
	Tel105	Brass	0.19 gpm	Aerated	Hydropowered	Yes	3 15⁄16 in	4 ½ in	TEL105-C20E#CP	**53CH71**
	Tel155	Brass	0.19 gpc	Aerated	Hydropowered	No	3 15⁄16 in	9 3⁄16 in	TEL155-C20E#CP	**53CH80**
Zurn	Aqua-Fit	Cast Brass, Plastic	0.5 gpm	Aerated	Sustainable/Hydropower	No	6 ½ in	5 ¼ in	Z6950-XL-S-F	**45NC94**
	AquaSense	Brass	0.5 gpm	Laminar	Battery	Yes	6 ¾ in	6 ⅜ in	Z6913-XL-CP4-F	**41J526**
	AquaSense	Brass	1.5 gpm	Aerated	Battery	No	6 5⁄16 in	6 ⅜ in	Z6913-XL-CWB	**45ND29**
	AquaSense	Brass	1.5 gpm	Aerated	Battery	Yes	6 ½ in	6 ⅜ in	Z6913-XL	**38ZL50**
	AquaSense	Cast Brass	0.5 gpm	Aerated	Battery	Yes	6 ¾ in	6 ⅜ in	Z6913-XL-F	**41J525**

** Integrated base body faucet. † Grid strainer. ‡ Drain with pop-up rod. # Includes (2) AAA batteries. ** Thermostatic mixing valve. †† SST mixing valve. ‡‡ Includes metal throat plate.*

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For information on faucet spout shapes, see page 2733.

Sensor Single-Hole Deck-Mount Bathroom Faucets

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Straight-Spout										
American Standard	Moments Selectronic	Cast Brass	0.5 gpm	Laminar	Lithium Battery	No	5 in	5 in	2506155.002	**41H809**
Kohler	Insight	Brass	0.5 gpm	Aerated	—	No	5 in	—	K-13461-CP	**493J89** #
	Insight	Brass	0.5 gpm	Aerated	—	No	5 in	—	K-13463-CP	**493J90**
Sloan	Optima	Brass	0.5 gpm	Aerated	Battery	Yes	4 11/32 in	5 11/32 in	EAF250-ISM	**5YJP3** ‡
	Optima	Brass	0.5 gpm	Aerated	Solar and Battery Powered	Yes	4 11/32 in	5 11/32 in	EAF275-ISM	**5YJP4**
Angled Straight-Spout										
Sloan	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	No	4 in	5 in	EFX350.000.0000	**23MF35**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	No	4 in	5 in	EFX650.000.0000	**23MF42** *
	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	No	4 in	5 in	EFX650.010.0000	**23MF44**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	No	5 7/32 in	6 15/32 in	EFX250.000.0000	**23MF26**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	Yes	4 in	5 in	EFX350.110.0000	**23MF38**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Battery	Yes	6 1/16 in	10 in	EFX150.500.0000	**23MF17**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Electronic	Yes	4 in	5 in	EFX300.500.0000	**23MF34**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Self Sustaining	No	4 in	5 in	EFX380.010.0000	**23MF41**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Self Sustaining	No	4 in	5 in	EFX680.010.0000	**23MF47**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Solar and Battery Powered	No	4 in	5 in	EFX375.000.0000	**23MF40**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Solar and Battery Powered	No	5 7/32 in	6 15/32 in	EFX275.000.0000	**23MF27**
	BASYS	Cast Zinc	0.5 gpm	Laminar	Solar and Battery Powered	Yes	5 7/32 in	6 15/32 in	EFX277.500.0000	**23MF31**
	BASYS	Cast Zinc	1.5 gpm	Aerated	Battery	No	4 in	5 in	EFX350.012.0000	**23MF37**
	BASYS	Cast Zinc	1.5 gpm	Aerated	Battery	No	4 in	5 in	EFX650.002.0000	**23MF43**
	BASYS	Cast Zinc	1.5 gpm	Aerated	Battery	No	4 in	5 in	EFX650.012.0000	**23MF45** *
	BASYS	Cast Zinc	1.5 gpm	Aerated	Solar and Battery Powered	No	5 7/32 in	6 15/32 in	EFX275.002.0000	**23MF28**
	BASYS	Cast Zinc	1.5 gpm	Aerated	Solar and Battery Powered	Yes	5 7/32 in	6 15/32 in	EFX277.502.0000	**23MF32**
	BASYS	Cast Zinc	1.5 gpm	Aerated	Solar and Battery Powered	Yes	6 1/16 in	10 in	EFX175.502.0000	**23MF19**
Gooseneck-Spout										
American Standard	Selectronic	Cast Brass	0.35 gpm	Spray	Lithium Battery	No	2 in	7 in	6055164.002	**41H846**
	Selectronic	Metal	0.5 gpm	Laminar	Lithium Battery	No	7 in	7 in	6055165.002	**4THG5**
Chicago Faucets	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	No	5 3/8 in	11 3/8 in	116.203.AB.1	**5UTW6**
	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	Yes	5 3/8 in	11 3/8 in	116.213.AB.1	**5UTP3**
	HyTronic	Cast Brass	0.5 gpm	Laminar	AC Powered	Yes	5 1/4 in	11 3/8 in	116.429.AB.1	**6XAE8**
	HyTronic	Cast Brass	0.5 gpm	Laminar	AC Powered	Yes	5 3/8 in	11 3/8 in	116.113.AB.1	**5UTP1**
	HyTronic	Cast Brass	1.0 gpm	Laminar	6V Lithium CRP2	No	5 1/4 in	11 3/8 in	116.430.AB.1	**6XAG4**
	HyTronic	Cast Brass	1.5 gpm	Laminar	12V AC Transformer	No	5 1/4 in	11 3/8 in	116.427.AB.1	**21FD43**
	HyTronic	Cast Brass	1.5 gpm	Laminar	6V Lithium CRP2	Yes	5 1/4 in	11 3/8 in	116.432.AB.1	**6XAG6**
Kohler	Insight	Brass	0.5 gpm	Aerated	—	No	6 3/16 in	—	K-13475-CP	**493J96**
	Insight	Brass	0.5 gpm	Aerated	—	No	6 3/16 in	—	K-13473-CP	**493J95** #
Sensorflo	SENSORFLO®	Brass	0.5 gpm	Spray	AC Powered	No	8 7/8 in	8 in	SF-9200	**55MJ20**
	SENSORFLO®	Brass	0.5 gpm	Spray	Battery	No	8 7/8 in	8 in	SF-9100	**55MJ15**
Sloan	—	Brass	2.2 gpm	Laminar	6V DC Plug-In Power Converter	No	5 1/4 in	10 in	SF2200-4	**5UVA2**
	—	Brass	2.2 gpm	Laminar	Battery	No	5 1/4 in	10 in	SF2250-4	**5WHW9**
	Optima	Brass	2.2 gpm	Laminar	Plug-In	Yes	8 7/16 in	12 1/4 in	ETF-700-4-PLG-TEE-CP-2.2GPM-LAM-IR-S-FCT	**491G82**
Zurn	AquaSense	Cast Brass	1.5 gpm	Laminar	Battery	Yes	5 3/8 in	12 in	Z6920-XL	**30PT27**

** Integrated base body faucet. † Grid strainer. ‡ Drain with pop-up rod. # Includes (2) AAA batteries. ** Thermostatic mixing valve. †† SST mixing valve. ‡‡ Includes metal throat plate.*

5UTW7

5YJR0

46CD94

468D23

Gooseneck-Spout Sensor Single-Hole Wall-Mount Bathroom Faucets

Hands-free sensor eliminates the spread of germs and starts/stops water flow without touching faucet. Tall gooseneck-spout extends above counter and curves to point straight down into sink. Single wall-mount hole installation saves counter space. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Spout Length	Spout Height	Mfr. Model	Item No.
Chicago Faucets	HyTronic	Cast Brass	0.5 gpm	Laminar	6V Lithium CRP2	5 3/8 in	12 in	116.204.AB.1	**5UTW7**
Sloan	Optima	Brass	2.2 gpm	Laminar	Electronic, Plug in Transformer	10 1/4 in	10 1/4 in	ETF500-P	**5YJR0**
Zurn	AquaSense	Brass	0.5 gpm	Laminar	Battery	6 1/2 in	12 in	Z6922-XL-F	**46CD94**
	AquaSense	Brass	1.5 gpm	Laminar	Sustainable/Hydropower	5 3/8 in	12 in	Z6922-XL-GEN	**468D23**

For information on faucet spout shapes, see page 2733.

Low-Arc-Spout
Moen
40D657

Low-Arc-Spout
Rubbermaid
35LX90

Low-Arc-Spout
Sloan
491G79

Low-Arc-Spout
T&S
443V42

Mid-Arc-Spout
American Standard
4THG6

Mid-Arc-Spout
Sloan
5UVA3

Mid-Arc-Spout
Zurn
61HJ69

Gooseneck-Spout
Sloan
491G83

Gooseneck-Spout
Speakman
46AE77

Gooseneck Spout
Speakman
46AE63

Sensor Two-Hole Deck-Mount Centerset Bathroom Faucets

Hands-free touchless sensor controls the flow of water and stops the spread of germs. Water shuts off automatically after a preset time to save water costs. Presetting water temperature is required. Two-hole centerset deck-mount faucets install onto sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. Chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Power Source	Temperature Control	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout										
Moen Commercial	M-Power	Brass	0.5 gpm	Laminar	(4) AA Batteries	No	3 in	4 ½ in	CA8301	**40D657**
Rubbermaid Commercial Products	Milano Auto Faucet	Brass	0.5 gpm	Aerated	(4) D Alkaline Batteries	Yes	6 ½ in	4 13/16 in	1818968	**35LX90**
Sloan	Optima	Brass	0.5 gpm	Laminar	Battery	Yes	4 9/16 in	3 ⅝ in	EBF-650-BAT-TEE-CP-0.5GPM-MLM-IR-FCT	**491G79**
	Optima	Brass	0.5 gpm	Laminar	Plug-In	Yes	4 9/16 in	3 ⅝ in	ETF-600-PLG-TEE-CP-0.5GPM-MLM-IR-FCT	**491G81**
T&S Brass	Checkpoint	Brass	2.2 gpm	Aerated	(2) AA Batteries	Yes	4 ⅞ in	—	EC-3103	**443V42**
Mid-Arc-Spout										
American Standard	Innsbrook Selectronic	Cast Brass	0.35 gpm	Spray	Lithium Battery	No	3 3/16 in	3 ¾ in	6055204.002	**41H847**
	Innsbrook Selectronic	Cast Brass	0.5 gpm	Laminar	Lithium Battery	No	3 3/16 in	3 ¾ in	6055205.002	**4THG6**
	Innsbrook Selectronic	Cast Brass	1.5 gpm	Laminar	Lithium Battery	No	3 3/16 in	3 ¾ in	6055202.002	**41H820**
Sloan	—	Brass	0.5 gpm	Aerated	6V DC Plug-In Power Converter	No	4 ⅝ in	4 11/16 in	SF2300	**5UVA3**
	—	Brass	0.5 gpm	Aerated	Battery	No	4 ⅝ in	4 11/16 in	SF2350	**5WHX0**
Zurn	Aqua-Fit	Cast Brass, Plastic	0.5 gpm	Aerated	Sustainable/Hydropower	No	6 ¾ in	5 ¼ in	Z6955-XL-S-F	**45ND01**
	AquaSense	Brass	1.5 gpm	Aerated	Battery	Yes	6 ¾ in	5 5/16 in	Z6915-XL	**41J523**
	AquaSense	Cast Brass	0.5 gpm	Aerated	Battery	No	5 ⅛ in	5 5/16 in	Z6915-XL-F	**41J524**
	Z6915-XL Series	Brass	1.5 gpm	Aerated	Battery, Hardwired	No	6 ¾ in	5 5/16 in	Z6915-XL-CWB	**61HJ69**
Gooseneck Spout										
Sensorflo	SENSORFLO	Brass	0.5 gpm	Spray	Battery	No	8 ⅞ in	8 in	SF-9107	**55MJ18**
Sloan	Optima	Brass	2.2 gpm	Laminar	Plug-In	Yes	6 in	10 ¾ in	ETF-770-4-PLG-TEE-CP-2.2GPM-LAM-IR-FCT	**491G83**
Speakman	SENSORFLO	Metal	0.5 gpm	Aerated	AC Powered	Yes	5 3/16 in	12 in	S-9228-CA-E	**46AE77**
	SENSORFLO	Metal	0.5 gpm	Aerated	Battery	Yes	5 3/16 in	12 in	S-9122-CA-E	**46AE63**

Automatic Hand Soap Dispensers

Hands-free automatic counter dispensers release a premeasured amount of hand soap to help prevent waste. Infrared sensors detect the presence of hands so users don't have to touch the handle or dispenser opening.

2VEF1

468A77

15A663

5XTH7

Hygiene Series	Hygiene Form	Refill Size	Dispenser Color	Material	H	W	D	Brand	Mfr. Model	Item No.
Automatic Hand Soap Dispensers, ADA Compliant										
HEALTHMINDER	Liquid	800 mL	Black	Brass	4¼"	1 13/16"	5⅜"	Sloan	ESD250	**2VEF1**
GOJO	Foam	1,500 mL	Silver	Brass	4½"	2"	5½"	Sloan	ESD-1500	**468A77**

Hygiene Series	Hygiene Form	Refill Size	Dispenser Color	Std.	Brand	Mfr. Model	Item No.
One Shot	Liquid	800 mL, 1,600 mL	Black	NSF Registered	Rubbermaid Commercial Products	FG401310	**15A663**

Size	Hygiene Series	Hygiene Form	Packaging Type	Brand	Mfr. Model	Item No.
Replacement Soaps, Unscented						
800mL	Sloan	Liquid	Cartridge	Sloan	ESD217	**5XTH5**
1,000 mL	Universal	Foam	Cartridge	Sloan	SJS1751-3	**5XTH7**

Hot Water Dispensers

- ¼" IPS water connection, except 485A91 has ⅜" compression

Dispensers feature swivel spout, provide near-boiling water instantly, and are preset at 200°F (485A91 is preset at 140°F).

In-Sink-Erator units include power cord and mounting hardware. All meet ASSE and C-UL Listed, except 485A91 meets NSF/ANSI 372, ETL Certified.

23NU44

Thermostat	Dispenser Tank Size	Faucet Finish	Hole Dia.	Dispenser Voltage	Watts	Amps AC	H	W	Item No.
In-Sink-Erator									
Snap Action, Adjustable	0.7 gal	Chrome	1¼" to 1 1/2"	115V AC	750 W	6.25 A	5⅘"	6"	**23NU44**
Snap Action, Adjustable from 160° to 200° F	0.7 gal	Chrome	1 13/64" to 1 1/2"	115V AC	750 W	6.25 A	6¼"	6⅛"	**54DC93**
	0.7 gal	Brushed Nickel	1 13/64" to 1 1/2"	115V AC	750 W	6.25 A	6¼"	6⅛"	**54DC94**
Eemax									
Adjustable	0.17 gal	Chrome Plated	1½"	240V AC	13,000 W	54 A	12"	7"	**485A91**

For information on faucet spout shapes, see page 2733.

T&S

Single-Hole Wall-Mount Bathroom Faucet

Faucet installs into one hole in a wall or on a vertical surface to save counter space in tight or busy bathrooms. Single, low-arc-spout delivers both hot and cold water and sits close to the sink basin. Chrome finish.

Brand	Faucet Handle Type	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Mfr. Model	Item No.
T&S Brass	Cross	Brass	6.25 gpm	Laminar	3 5/8 in	B-0706	**4XKJ5**

Low-Arc-Spout Gerber 499C85

Low-Arc-Spout Chicago Faucets 29RR63

Low-Arc-Spout Moen 52RP89

Low-Arc-Spout Trident 48LX71

Low-Arc-Spout Ez-Flo 444J03

Gooseneck-Spout Chicago Faucets 26Y221

Gooseneck-Spout Delta 4NLL3

Low-Arc-Spout Encore 20HK61

Low-Arc-Spout Zurn 29VL96

Mid-Arc-Spout American Standard 55DM06

Mid-Arc-Spout Dominion Faucets 45L021

Mid-Arc-Spout Speakman 455D74

Gooseneck-Spout Kohler 55VF52

Gooseneck-Spout Kohler 55VF53

CHICAGO FAUCETS a Geberit company · GERBER · ZURN · American Standard · DELTA see what Delta can do · MOEN Buy it for looks. Buy it for life. · T&S · SPEAKMAN · DOMINION FAUCETS BY KISSLER & CO. INC. · EZ-FLO · TRIDENT · Encore by Component Hardware · KOHLER

Two-Hole Deck-Mount Centerset Bathroom Faucets

Faucets install onto bathroom sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. These one-piece units have a spout and one or two handles on a single base for easy installation.

Brand	Series	Faucet Finish	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout											
Dome Lever Handle											
Chicago Faucets	802	Chrome	Cast Brass	0.5 gpm	—	Laminar	4 in	2 3/4 in	Yes	802-V1000E66ABCP	**48YD92**
Gerber	43-431	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 1/8 in	1 9/16 in	Yes	G0743431	**499C85**
Zurn	AquaSpec	Chrome	Brass	0.5 gpm	—	Aerated	5 1/4 in	3 5/8 in	Yes	Z81103-XL-3M	**46CD98**
	AquaSpec	Chrome	Brass	2.2 gpm	—	Aerated	4 1/4 in	3 5/8 in	Yes	Z81103-XL	**29VM06**
Joystick Handle											
American Standard	Colony Pro	Chrome	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 1/2 in	3 3/16 in	Yes	7075000.002	**448M87**
	Monterrey	Chrome	Cast Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 5/8 in	2 3/8 in	Yes	6114111.002	**48UK56**
	Reliant 3	Chrome	Cast Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 7/8 in	2 5/8 in	Yes	7385047.002	**48UK78**
Chicago Faucets	2201	Chrome	Cast Brass	2.2 gpm	Drain with Pop-Up Rod	Aerated	4 3/4 in	4 in	Yes	2201-4ABCP	**26Y214**
	420	Chrome	Cast Brass	0.5 gpm	—	Spray	4 5/8 in	3 1/4 in	Yes	420-E2805ABCP	**29RR63**
	420	Chrome	Cast Brass	1.5 gpm	—	Laminar	4 5/8 in	3 1/4 in	Yes	420-ABCP	**5UTT8**
	420	Chrome	Cast Brass	1.5 gpm	Drain with Pop-Up Rod	Laminar	4 5/8 in	3 1/4 in	Yes	420-POABCP	**6XAH3**
Delta	Classic	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 in	6 9/16	Yes	500-DST	**4NLK1**
	Delta Commercial	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 in	6 9/16	Yes	501LF-HDF	**10N781**
	Delta Commercial	Chrome	Brass	1.5 gpm	—	Aerated	5 1/8 in	—	Yes	22C131	**4NLK8**
	Delta Commercial	Chrome	Brass	1.5 gpm	—	Aerated	5 in	4 7/8	Yes	520LF-HDF	**10N782**
	Delta Commercial	Chrome	Brass	1.5 gpm	Drain with Pop-Up Rod	Aerated	5 3/4 in	—	Yes	22C331	**4NLK6**
Moen	Chateau	Chrome	Brass	1.2 gpm	—	Aerated	4 3/8 in	2 in	Yes	L4605	**52RP89**
	Chateau	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 3/8 in	7 in	Yes	L4621	**52RP90**
	M-Dura	Chrome	Brass	1.2 gpm	—	Aerated	7 in	3 3/4 in	Yes	8413F12	**46KK56**
	M-Dura	Chrome	Brass	2.2 gpm	—	Aerated	5 in	3 3/4 in	Yes	8413	**4NEJ2**
T&S Brass	—	Chrome	Brass	2.2 gpm	—	Aerated	4 in	—	Yes	B-2711	**5NRE3**
Knob Handle											
Delta	Delta Commercial	Chrome	Brass	1.5 gpm	—	Aerated	3 7/16 in	3 1/4 in	Yes	2502LF	**6NRG1**
Delta	Delta Commercial	Chrome	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 1/4 in	3 1/4 in	No	2502LF	**52HP82**
Dominion Faucets	Silver	Chrome	Cast Brass	1.2 gpm	—	Aerated	4 in	—	No	77-1005	**45L014**
	Silver	Chrome	Cast Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 in	—	No	77-1106	**31XJ38**
Ez-Flo	Nonmetallic Collection	Chrome	Plastic	1.2 gpm	—	Aerated	3 in	1 1/2 in	No	10252	**444J06**
	Nonmetallic Collection	Chrome	Plastic	2.0 gpm	Drain with Pop-Up Rod	Aerated	3 in	1 1/2 in	No	10256N	**444J18**
	Prestige Collection	Chrome	Brass	1.2 gpm	—	Aerated	5 7/8 in	3 1/4 in	No	10120LF	**444J17**
	Prestige Collection	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 7/8 in	3 1/4 in	No	10119LF	**444J16**
	Traditional Collection	Chrome	Metal	1.2 gpm	—	Aerated	5 7/8 ft	1 13/16 in	No	10281LF	**444J99**
Trident	—	Chrome	Brass	1.2 gpm	—	Aerated	3 13/16 in	2 7/8 in	No	48LX71	**48LX71**
Lever Handle											
American Standard	Colony Pro	Chrome	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 1/2 in	3 1/4 in	Yes	7075200.002	**448M99**
	Colony Pro	Brushed Nickel	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 1/2 in	3 1/4 in	Yes	7075200.295	**448N13**
Chicago Faucets	802	Chrome	Cast Brass	2.2 gpm	—	Aerated	4 in	2 3/4 in	Yes	802-VXKABCP	**26Y302**
Delta	Delta Commercial	Chrome	Brass	1.5 gpm	Grid Strainer	Aerated	5 1/8 in	3 5/8 in	Yes	21C333	**4NLK7**
Ez-Flo	Impressions Collection	Brushed Nickel	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 13/16 in	1 3/4 in	Yes	10191	**444J03**
Moen	M-Dura	Chrome	Brass	1.2 gpm	—	Aerated	5 1/2 in	4 1/2 in	Yes	8210F12	**46KK53**
T&S Brass	—	Chrome	Brass	2.2 gpm	—	Aerated	3 3/4 in	—	Yes	B-0871	**5NRE4**
Wristblade Handle											
American Standard	Monterrey	Chrome	Cast Brass	1.5 gpm	—	Aerated	3 3/4 in	1 3/4 in	Yes	5500170.002	**4THP9**
Chicago Faucets	802	Chrome	Cast Brass	1.0 gpm	—	Aerated	4 in	2 3/4 in	Yes	802-V317E64ABCP	**48YD89**
	802	Chrome	Cast Brass	2.2 gpm	—	Aerated	4 in	2 3/4 in	Yes	802-V317ABCP	**26Y186**
Delta	Delta Commercial	Chrome	Brass	1.5 gpm	—	Aerated	5 1/8 in	3 5/8 in	Yes	21C132	**4NLL1**
Encore	KL83	Chrome	Brass	0.5 gpm	—	Aerated	4 in	3 in	Yes	KL83-4104-CA4	**20HK61**
Kohler	Triton Bowe™	Polished Chrome	Brass	0.5 gpm	Drain Not Included	Laminar	3 15/16 in	1 1/2 in	Yes	K-400T20-4ANL-CP	**55VF60**
Moen	M-Bition	Chrome	Brass	1.2 gpm	—	Aerated	4 in	3 5/16 in	Yes	8800	**52RP91**
Moen	M-Dura	Chrome	Brass	2.2 gpm	—	Aerated	5 1/2 in	4 1/2 in	Yes	8215	**4NEJ1**
T&S Brass	—	Chrome	Cast Brass	2.2 gpm	Drain with Pop-Up Rod	Aerated	3 3/4 in	—	Yes	B-0891	**4XKJ7**
Zurn	AquaSpec	Chrome	Cast Brass	0.5 gpm	—	Aerated	4 1/4 in	3 5/8 in	Yes	Z81104-XL-3M	**29VL96**

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For information on faucet spout shapes, see page 2733.

Two-Hole Deck-Mount Centerset Bathroom Faucets

Brand	Series	Faucet Finish	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Mid-Arc-Spout											
Lever Handle											
American Standard	Delancey	Polished Chrome	Brass	1.2 gpm	Press and Seal Drain	Aerated	4 13⁄16 in	5 5⁄8 in	Yes	7052207.002	**55DM06**
	Delancey	Brushed Nickel	Brass	1.2 gpm	Press and Seal Drain	Aerated	4 13⁄16 in	5 5⁄8 in	Yes	7052207.295	**55DM08**
Dominion Faucets	Silver	Chrome	Cast Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 in	—	Yes	77-1190	**45L021**
Speakman	Chelsea	Chrome	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	8 in	2 7⁄8 in	Yes	SB-1711-E	**455D74**
Straight-Spout											
Lever Handle											
Kohler	Triton Bowe™	Chrome	Brass	1.0 gpm	—	Aerated	3 15⁄16 in	—	Yes	K-400T20-4AKA-CP	**493J97**
Gooseneck-Spout											
Dome Lever Handle											
Chicago Faucets	1895	Chrome	Cast Brass	2.2 gpm	—	Aerated	3 ½ in	3 ½ in	Yes	1895-ABCP	**26Y221**
Lever Handle											
Delta	Delta Commercial	Chrome	Cast Brass	1.5 gpm	—	Aerated	4 ½ in	—	Yes	27C4843	**4NLL3**
Kohler	Triton Bowe™	Polished Chrome	Brass	0.5 gpm	Drain Not Included	Laminar	5 3⁄16 in	7 ¾ in	No	K-400T70-4ANL-CP	**55VF52**
	Triton Bowe™	Chrome	Brass	1.0 gpm	—	Aerated	5 3⁄16 in	—	Yes	K-400T70-4AKA-CP	**493J99**
	Triton Bowe™	Polished Chrome	Brass	1.0 gpm	Drain Not Included	Laminar	5 3⁄16 in	7 ¾ in	Yes	K-400T70-4AKL-CP	**55VF51**
Zurn	AquaSpec	Chrome	Brass	0.5 gpm	—	Aerated	4 ½ in	10 7⁄16 in	Yes	Z812A1-XL-3F	**46CD99**
	AquaSpec	Chrome	Brass	0.5 gpm	—	Aerated	6 3⁄8 in	11 5⁄16 in	Yes	Z812B1-XL-3F	**46CE01**
	AquaSpec	Chrome	Brass	2.2 gpm	—	Aerated	3 ½ in	10 7⁄16 in	Yes	Z812A1-XL	**29VL99**
	AquaSpec	Chrome	Brass	2.2 gpm	—	Aerated	5 3⁄8 in	11 5⁄16 in	Yes	Z812B1-XL	**38VC59**
Wristblade Handle											
Kohler	Triton Bowe™	Polished Chrome	Brass	1.0 gpm	Drain Not Included	Laminar	5 3⁄16 in	7 ¾ in	Yes	K-400T70-5AKL-CP	**55VF53**

Brushed Nickel Straight-Spout Speakman 46AE09

Chrome Low-Arc-Spout Chicago Faucets 48YD59

Chrome Low-Arc-Spout Kohler 493H40

Chrome Low-Arc-Spout Zurn 46CE14

Chrome Mid-Arc-Spout Ez-Flo 444J04

Chrome Straight-Spout Moen 40D691

Chrome Straight-Spout Grohe 448N50

Legacy Bronze Low-Arc-Spout American Standard 55DM91

Polished Chrome Gooseneck-Spout Kohler 55VF58

Three-Hole Widespread Deck-Mount Bathroom Faucets

Faucets install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole. Hot and cold water supplies are combined inside the spout.

Brand	Faucet Handle Type	Series	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Brushed Nickel Faucet Finish											
Low-Arc-Spout											
American Standard	Lever	Colony Pro	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	3 in	3 in	Yes	7075802.295	**448N17**
	Lever	Town Square S	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 3⁄16 in	2 5⁄16 in	Yes	7455801.295	**55DM92**
Straight-Spout											
Speakman	Lever	Caspian	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 ¼ in	8 1⁄8 in	Yes	SB-1221-E-BN	**46AE09**
	Lever	Kubos	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 ½ in	4 ¾ in	Yes	SB-2421-BN	**455D80**
	Lever	Neo	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 21⁄32 in	6 ¾ in	No	SB-1021-E-BN	**46AD95**
Chrome Faucet Finish											
Gooseneck Spout											
Kohler	Lever	Alteo	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 ½ in	6 3⁄8 in	Yes	K-45102-4-CP	**493H42**
	Lever	Forte	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 1⁄8 in	3 ¼ in	Yes	K-10272-4-CP	**493H44**
Low-Arc-Spout											
American Standard	Lever	Colony Pro	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	3 in	3 in	Yes	7075800.002	**448N03**
	Lever	Monterrey	Brass	1.5 gpm	—	Aerated	2 ¼ in	2 ¼ in	Yes	6500140.002	**20CK73**
	Wristblade	Monterrey	Cast Brass	0.35 gpm	—	Laminar	4 1⁄16 in	2 ¼ in	Yes	6500174.002	**41H850**
Chicago Faucets	Lever	404	Cast Brass	0.5 gpm	—	Laminar	5 in	2 7⁄8 in	Yes	404-E70ABCP	**48YD59**
	Lever	404	Cast Brass	2.2 gpm	—	Aerated	5 in	2 7⁄8 in	Yes	404-ABCP	**5UTT7**
	Wristblade	404	Cast Brass	0.5 gpm	—	Laminar	5 in	2 7⁄8 in	Yes	404-E70-317ABCP	**48YD57**
	Wristblade	404	Cast Brass	2.2 gpm	—	Aerated	5 in	2 7⁄8 in	Yes	404-317ABCP	**6XAF1**
Kohler	Lever	Coralais®	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 11⁄16 in	4 in	Yes	K-15261-4RA-CP	**493H40**
	Lever	Devonshire	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	6 3⁄8 in	4 5⁄8 in	Yes	K-394-4-CP	**493H41**
Moen	Wristblade	M-Dura	Brass	2.2 gpm	—	Aerated	3 in	4 3⁄16 in	Yes	8228	**40D652**
Speakman	Wristblade	Commander	Brass	0.5 gpm	—	Aerated	4 in	8 in	Yes	SC-3044-LD-E	**46AD75**
Zurn	Lever	AquaSpec	Brass	0.5 gpm	—	Aerated	6 3⁄8 in	3 in	Yes	Z831R1-XL-3M	**46CE14**
	Lever	AquaSpec	Brass	2.2 gpm	—	Aerated	5 1⁄8 in	3 in	Yes	Z831R1-XL	**29VM07**
	Wristblade	AquaSpec	Brass	0.5 gpm	—	Aerated	6 3⁄8 in	3 in	Yes	Z831R4-XL-3M	**46CE15**
	Wristblade	AquaSpec	Brass	2.2 gpm	—	Aerated	5 in	3 in	Yes	Z831R4-XL	**29VL93**
Mid-Arc-Spout											
Ez-Flo	Lever	Impressions Collection	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	6 5⁄8 in	3 in	Yes	10192	**444J04**
Speakman	Lever	Chelsea	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 in	5 7⁄8 in	Yes	SB-1721-E	**46AE17**
Straight-Spout											
—	Lever	90°	Metal	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 in	4 1⁄16 in	Yes	TS6720	**40D691**
Grohe	Lever	Concetto	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 5⁄16 in	3 3⁄8 in	Yes	20572001	**448N50**
Speakman	Lever	Caspian	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 ¼ in	8 1⁄8 in	Yes	SB-1221-E	**46AE08**

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For information on faucet spout shapes, see page 2733.

Three-Hole Widespread Deck-Mount Bathroom Faucets

Brand	Faucet Handle Type	Series	Faucet Body Material	Flow Rate	Drain Style	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Legacy Bronze Faucet Finish											
Low-Arc-Spout											
American Standard	Lever	Town Square S	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 3⁄16 in	2 5⁄16 in	Yes	7455801.278	**55DM91**
Mid-Arc-Spout											
American Standard	Lever	Edgemere	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	4 ¾ in	4 11⁄16 in	Yes	7018801.278	**55DM28**
Polished Chrome Faucet Finish											
Gooseneck Spout											
Kohler	Wristblade	Triton Bowe™	Brass	0.5 gpm	Drain Not Included	Laminar	5 3⁄16 in	7 9⁄16 in	Yes	K-800T70-5ANL-CP	**55VF58**
Low-Arc-Spout											
American Standard	Lever	Town Square S	Brass	1.2 gpm	Drain with Pop-Up Rod	Aerated	5 3⁄16 in	2 5⁄16 in	Yes	7455801.002	**55DM90**
Kohler	Lever	Triton Bowe™	Brass	0.5 gpm	Drain Not Included	Laminar	5 ½ in	1 15⁄16 in	Yes	K-800T20-4ANL-CP	**55VF89**
Mid-Arc-Spout											
American Standard	Lever	Delancey	Brass	1.2 gpm	Press and Seal Drain	Aerated	4 13⁄16 in	5 ¼ in	Yes	7052807.002	**55DM09**

Single-Hole Deck-Mount Kitchen Sink Faucets

Faucets install into one hole on a new or existing kitchen sink or counter. Hot and cold water flows through a single spout. These aerated faucets may be used with cover plates that cover extra predrilled holes in a sink. Chrome finish, except 493J35 is stainless steel. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout							
Joystick Handle							
American Standard	Colony Pro	Cast Brass	1.5 gpm	8 ½ in	4 29⁄32 in	7074010.002	**448N18**
Chicago Faucets	430	Brass	1.5 gpm	9 in	6 in	431-MPABCP	**29RR70**
Delta	NA	Brass	1.5 gpm	8 11⁄16 in	7 13⁄16 in	101LF-HDF	**6NRG2**
Zurn	AquaSpec	Brass	0.5 gpm	10 in	11 ½ in	Z82300-XL-3M	**52JJ07**
Straight-Spout							
Joystick Handle							
Grohe	Concetto	Brass	1.5 gpm	7 15⁄16 in	4 ½ in	31453001	**448N51**
Trident	—	Brass	1.8 gpm	9 1⁄16 in	7 in	5DJD3	**5DJD3**
Gooseneck-Spout							
Lever Handle							
Chicago Faucets	—	Cast Brass	2.2 gpm	5 ¼ in	13 ¼ in	50-ABCP	**4KTK9**
	—	Cast Brass	2.2 gpm	5 ¼ in	13 ¼ in	50-XKABCP	**26Y303**
Side Joystick Handle							
American Standard	Colony Soft	Cast Brass	2.2 gpm	8 15⁄16 in	8 in	4175300.002	**24PR01**
Chicago Faucets	350	Cast Brass	2.2 gpm	5 ¼ in	13 in	350-ABCP	**5UTT4**
Wristblade Handle							
Chicago Faucets	50	Cast Brass	2.2 gpm	5 ¼ in	13 ⅜ ft	50-317XKABCP	**5UTU3**
Gooseneck Pull Out Spout							
Side Joystick Handle							
Kohler	Simplice	Brass	1.5 gpm	9 in	9 ⅝ in	K-596-CP	**493J34**
	Simplice	Brass	1.5 gpm	9 in	9 ⅝ in	K-596-VS	**493J35**
Double-Joint-Spout							
Lever Handle							
T&S Brass	—	Brass	5.23 gpm	18 in	10 ⅜ in	B-0590	**4XKL1**

Low-Arc Spout Chicago Faucets 29RR70

Low-Arc-Spout Delta 6NRG2

Low-Arc Spout Zurn 52JJ07

Straight-Spout Grohe 448N51

Straight-Spout Trident 5DJD3

Gooseneck-Spout Chicago Faucets 5UTT4

Gooseneck-Spout Kohler 493J34

Double-Joint-Spout T&S 4XKL1

Two-Hole Centerset Kitchen Sink Faucets

Faucets install onto kitchen sinks that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. They can cover an unused middle hole on sinks with a three-hole centerset pattern. These one-piece units have a spout and one or two handles on a single base. Deck mount, except 26Y192 is wall mount. Chrome finish.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout									
Dome Lever Handle									
Chicago Faucets	1100	Cast Brass	2.2 gpm	Aerated	8 in	6 ⅝ in	Yes	1100-XKABCP	**26Y242**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	8 in	6 11⁄16 in	Yes	Z871G3-XL-3F	**46CE25**
	AquaSpec	Brass	2.2 gpm	Aerated	8 in	6 11⁄16 in	Yes	Z871G3-XL	**45K792**
Joystick Handle									
T&S Brass	—	Brass	2.2 gpm	Aerated	9 in	7 15⁄16 in	Yes	B-2731	**5NRE7**
Zurn	Temp Gard	Cast Brass	1.0 gpm	Aerated	8 ⅜ in	7 ⅝ ft	Yes	Z7872C-XL-SO	**468D40**
Lever Handle									
Chicago Faucets	527	Cast Brass	2.2 gpm	Laminar	6 ¼ in	7 ⅝ in	Yes	527-ABCP	**26Y235**
	895	Cast Brass	2.2 gpm	Aerated	12 in	6 in	Yes	895-L12ABCP	**5UTV4**
	1100	Cast Brass	2.2 gpm	Aerated	8 in	6 ⅝ in	Yes	1100-ABCP	**3TFG9**
	W4D	Brass	1.5 gpm	Aerated	9 ½ in	7 in	Yes	W4D-L9E35-369AB	**41N763**
	W4D	Brass	6.0 gpm	Laminar	9 ½ in	7 in	Yes	W4D-L9E1-369AB	**41N765**
Straight-Spout									
Knob Handle									
Dominion Faucets	Silver	Cast Brass	1.75 gpm	Aerated	8 in	—	No	77-4891	**45L018**
Lever Handle									
Advance Tabco	Heavy Duty	Brass	1.5 gpm	Aerated	12 in	5 in	No	K1-GR	**3LMR7**
	Heavy Duty	Brass	2.0 gpm	Aerated	14 in	8 ½ in	No	K-111 B-2291	**3LMR8**
Gooseneck-Spout									
Chicago Faucets	521	Cast Brass	12.0 gpm	Laminar	5 ¼ in	6 ¾ in	Yes	521-GN2AE1ABCP	**26Y192**
Trident	—	Brass	1.8 gpm	Aerated	3 ⅝ in	10 9⁄16 in	Yes	5DJD6	**5DJD6**

Low-Arc-Spout Chicago Faucets 26Y242

Low-Arc-Spout T&S 5NRE7

Low-Arc-Spout Zurn 468D40

Straight-Spout Dominion Faucets 45L018

Straight-Spout Advance Tabco 3LMR7

Gooseneck-Spout Trident 5DJD6

For information on faucet spout shapes, see page 2733.

Low-Arc-Spout
Chicago Faucets
26Y226

Straight-Spout
Chicago Faucets
26Y196

Straight-Spout
Dominion Faucets
45L026

Double-Joint-Spout
Chicago Faucets
26Y184

Two-Hole Widespread Wall-Mount Kitchen Sink Faucets

Faucets install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. Wall-mount faucets save counter space in tight or busy kitchens. All faucets are aerated and include lever handles. Chrome finish.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Chicago Faucets	445	Cast Brass	2.2 gpm	8 in	5 ⅛ in	Yes	445-L8ABCP	**26Y226**
Straight-Spout								
Chicago Faucets	540	Cast Brass	2.2 gpm	12 in	5 in	Yes	540-LDL12ABCP	**26Y196**
Dominion Faucets	Silver	Brass	2.2 gpm	8 in	—	No	77-8600	**45L026**
Double-Joint-Spout								
Chicago Faucets	445	Cast Brass	2.2 gpm	13 in	4 ½ in	Yes	445-DJ13ABCP	**26Y250**
	445	Cast Brass	2.2 gpm	18 in	4 ½ in	Yes	445-DJ18ABCP	**26Y184**

Low-Arc-Spout
Chicago Faucets
26Y234

Low-Arc-Spout
American Standard
448N19

Low-Arc-Spout
Delta
4NLK3

Angled
Straight-Spout
Kohler
493J33

Low-Arc-Spout
Moen
4NEH8

Straight-Spout
Moen
40D673

Gooseneck-Spout
Zurn
468D46

Three-Hole Widespread Deck-Mount Kitchen Sink Faucets

Faucets install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole. All faucets are aerated and have a chrome finish. ADA Compliant.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	Mfr. Model	Item No.
Low-Arc-Spout							
Dome Lever							
Chicago Faucets	1888	Cast Brass	2.2 gpm	9 ½ in	6 ⅜ in	1888-ABCP	**26Y234**
Joystick							
American Standard	Colony Pro	Cast Brass	1.5 gpm	8 ½ in	4 29⁄32 in	7074000.002	**448N19**
Delta	NA	Brass	1.8 gpm	8 11⁄16 in	8 ⅜ in	100-DST	**4NLK3**
Angeled Straight-Spout							
Kohler	Coralais®	Metal	1.5 gpm	8 ½ in	6 ¼ in	K-15171-F-CP	**493J33**
Low-Arc-Spout							
Moen	Chateau	Brass	1.5 gpm	9 ⅛ in	6 11⁄16 in	7425	**4NEH8**
	Chateau	Cast Metal	1.5 gpm	9 ⅛ in	8 ½ in	67425	**40D685**
Lever							
Chicago Faucets	201	Cast Brass	2.2 gpm	9 ½ in	8 ⅛ in	201-AABCP	**6XAE9**
Straight-Spout							
Wristblade							
American Standard	Monterrey	Cast Brass	1.5 gpm	7 ⅝ in	7 ⅝ in	6405170.002	**24PR20**
Moen	M-Bition	Cast Metal	1.5 gpm	8 ¾ in	12 ½ in	8799	**40D673**
Gooseneck-Spout							
Lever							
Zurn	AquaSpec	Cast Brass	2.2 gpm	3 ½ in	9 ½ in	Z831A1-XL	**468D46**

Low-Arc-Spout
American Standard
448N21

Low-Arc-Spout
Chicago Faucets
29RR69

Low-Arc-Spout
Delta
4NLK4

Gooseneck-Spout
Trident
12U344

Four-Hole Widespread with Sprayer Deck-Mount Kitchen Sink Faucets

Faucets install onto kitchen sinks or counters and require three holes for the faucet unit with the outermost holes being 8" apart. A fourth hole is also required for the handheld sprayer. All faucets are aerated.

Brand	Series	Faucet Body Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Joystick								
American Standard	Colony Pro	Cast Brass	1.5 gpm	8 ½ in	4 29⁄32 in	Yes	7074040.002	**448N21**
Chicago Faucets	430	Brass	1.5 gpm	9 in	6 in	Yes	432-ABCP	**29RR69**
Delta	Classic	Brass	1.8 gpm	8 11⁄16 in	8 ⅜ in	Yes	400-DST	**4NLK4**
Gooseneck-Spout								
Lever								
Trident	—	Brass	1.8 gpm	8 5⁄16 in	10 9⁄16 in	Yes	12U344	**12U344**

Deck-Mount
T&S
5WMY2

Wall-Mount
Encore
20HK67

Wall-Mount
T&S
5WMX8

Gooseneck Pre-Rinse Faucets

Sprays water for dishwashing, food processing, and washdown applications. Gooseneck extends above counter and curves to point directly into sink basin. Install on deck or wall, into sinks, counters, or horizontal surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. Chrome-plated finish with lever handles

Brand	Series	No. of Holes	Faucet Body Material	Flow Rate	Spout Length	H	Mfr. Model	Item No.	
Deck-Mount									
T&S Brass	—	1	Brass	1.42 gpm	12 in	40⅛ in	B-2338	**5WMY2**	
	—	1	Brass	1.42 gpm	14 1⁄16 in	38 11⁄16 in	B-2250-B	**5WMY1**	
	—	1	Brass	1.42 gpm	14 1⁄16 in	42 1⁄16 in	B-0113-B	**5WMX7**	
Wall-Mount									
Encore	KL53	3	Brass	1.6 gpm	16 ⅞ in	35 in	KL53-1000 - BR	**20HK67**	*
T&S Brass	—	2	Brass	1.42 gpm	14 1⁄16 in	33 5⁄16 in	B-0133-B	**5WMX8**	

** ADA Compliant.*

For information on faucet spout shapes, see page 2733.

Single-Hole Wall-Mount Glass Fillers

Glass fillers install into one hole on a vertical surface such as a wall. They provide a narrow stream of water for filling drinking glasses or water bottles. Straight-spout faucets extend straight out from the body of the faucet. Glass-activated push lever handles except 26Y282 is metering requiring users to push to start, shuts off automatically. Chrome finish.

Chicago Faucets 41N760

Metering Chicago Faucets 26Y282

T&S 2MCU2

Brand	Series	Faucet Handle Material	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Chicago Faucets	312	Metal	Cast Brass	1 gpm	Laminar	4 ⅜ in	1 ½ in	Yes	312-ABCP	**41N760**
	324	Metal	Cast Brass	0.25 gpm	Laminar	4 in	1 ½ in	Yes	324-665PSHABCP	**26Y282**
	712	Metal	Cast Brass	1 gpm	Aerated	4 in	9 $\frac{3}{16}$ in	No	712-ABCP	**41N759**
T&S Brass	—	Plastic	Brass	0.25-2.25 gpm	Aerated	4 ⅛ in	4 $\frac{9}{16}$ in	Yes	B-1200	**2MCU2**

Gooseneck Bar Sink Faucets

Bar sink faucets are compact with a tall spout. Install on small sinks in tight areas where food is prepared or beverages are served, such as bars and restaurants. Feature metal faucet handles, aerated flow spouts, and chrome finish. **Single-Hole Faucets** install into one hole on a bar sink or counter. **Two-Hole Centerset Faucets** install onto sinks, counters, walls or other vertical or horizontal surfaces that have with two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. **Three-Hole Widespread Faucets** install into a sink or counter with three holes where the outermost holes are 8" apart when measuring from center-of-hole to center-of-hole.

Single-Hole Chicago Faucets 48YD70

Two-Hole Deck-Mount Moen 6MPT6

Two-Hole Wall-Mount T&S 10C480

Two-Hole Off Center Delta 4NLK5

Three-Hole Moen 52JN02

Brand	Series	No. of Handles	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Single Hole Deck-Mount										
Lever Handle										
Chicago Faucets	50	2	Cast Brass	1.5 gpm	Aerated	5 ¼ in	13 ⅜ ft	Yes	50-E35-XKABCP	**48YD70**
T&S Brass	—	2	Brass	8.67 gpm	Aerated	5 ¼ in	13 ½ in	No	B-0300	**4XKK7**
Two-Hole Centerset Deck-Mount										
Wristblade Handle										
Moen	M-Bition	2	Cast Metal	1.2 gpm	Aerated	4 ¾ in	8 ⅞ in	Yes	8948	**6MPT6**
	M-Bition	2	Metal	1.5 gpm	Aerated	4 $\frac{9}{16}$ in	10 ½ in	Yes	8938	**4NEJ5**
Two-Hole Centerset Wall-Mount										
Lever Handle										
T&S Brass	—	2	Brass	13.8 gpm	Laminar	10 ⅜ in	6 ⅜ in	Yes	B-0341	**10C480**
Two-Hole Off Center-Right Deck-Mount										
Joystick Handle										
Delta	Classic	1	Brass	1.5 gpm	Aerated	5 in	10 in	Yes	1903-DST	**4NLK5**
Three-Hole Widespread Deck-Mount										
Wristblade Handle										
Moen	M-Dura	2	Brass	1.5 gpm	Aerated	5 ¼ in	10 ¾ in	Yes	8248	**52JN02**
	M-Dura	2	Brass	1.5 gpm	Aerated	8 in	13 ¼ in	Yes	8225smf15	**46KK55**
Moen	M-Dura	2	Brass	2.2 gpm	Aerated	8 in	13 ¼ in	Yes	8225	**6MPT7**

Two-Hole Laundry Sink Faucets

Faucets provide water for washing laundry and fabrics in commercial and residential laundry facilities. These chrome-finish faucets have a short low-arc-spout and two handles. **Centerset Faucets** install onto horizontal (deck-mount) or vertical (wall-mount) surfaces with two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. **Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. ADA Compliant.

Deck-Mount American Standard 448N36

Deck-Mount T&S 5NRE9

Wall-Mount T&S 5NRF5

Wall-Mount Zurn 46CE16

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Mounting Type	Flow Outlet Type	Spout Length	Spout Height	Mfr. Model	Item No.
Centerset Deck-Mount										
American Standard	7074	Lever	Cast Brass	1.5 gpm	Deck	Laminar	7 ½ in	4 ⅗ in	7074240.002	**448N36**
T&S Brass	—	Lever	Brass	2.2 gpm	Deck	Aerated	6 in	—	B-1120	**5NRE8**
	—	Lever	Brass	2.2 gpm	Deck	Aerated	6 in	6 ⅛ in	B-1110	**5NRE9**
	—	Lever	Brass	2.2 gpm	Deck	Aerated	8 in	6 ¾ in	B-1121	**4XKJ9**
	—	Lever	Brass	18.39 gpm	Deck	Aerated	12 in	10 in	B-0221	**4XKK5**
	—	Lever	Brass	18.39 gpm	Deck	Aerated	18 in	12 in	B-0220	**4XKK6**
	—	Lever	Brass	23.09 gpm	Deck	Aerated	6 in	8 in	B-0222	**4XKK4**
Centerset Wall-Mount										
T&S Brass	—	Lever	Brass	2.2 gpm	Wall	Aerated	6 in	5 $\frac{7}{16}$ in	B-1115	**5NRF5**
	Big-Flo	Cross	Brass	44.27 gpm	Wall	Aerated	12 in	8 ⅛ in	B-0290	**5NRF2**
Widespread Wall-Mount										
T&S Brass	—	Lever	Brass	2.2 gpm	Wall	Aerated	6 in	—	B-0230-01	**5NRF1**
	—	Lever	Cast Brass	23.09 gpm	Wall	Aerated	12 in	7 ½ in	B-0231	**5NRF0**
Zurn	AquaSpec	Lever	Brass	0.5 gpm	Wall	Aerated	9 ½ in	6 ¾ in	Z843J1-XL-3F	**46CE16**

Service Sink Faucet with Eyewash

Eyewash (2WLL7) is attached directly to faucet's cold water integral stop port. Faucet and eyewash can operate independently. Includes eyewash, drench hose with twin plastic spray heads, and wall-mount bracket. Chrome finish.

2WLL7

3HEP9

Series	Flow Rate	Faucet Spout Shape	Connection	No. of Holes	Mounting Hole Center to Center	Spout Length	Mfr. Model	Item No.
Service Sink Faucet with Eyewash								
Eyesaver	2.66 gpm	Straight	½ in FNPT	2	8 in	9 in	SEF-9000	**2WLL7**

Description	Mfr. Model	Item No.
Accessories		
Eyewash Spray Head Assembly (SEF1800's)	RPG38-0388	**4NGX7**
Flip Top Dust Covers	RPG07-0104	**3HER1**
Sprayhead Assembly (SEF-490/495)	RPG38-0390	**3HEP9**
Seal Replacement Kit for SEF-1800	RPG49-0003	**4NGX4**

Low-Arc-Spout Chicago Faucets 26Y233

Straight-Spout American Standard 41H839

Straight-Spout Moen 40D653

Straight-Spout Speakman 6MPF5

Straight-Spout Zurn 24A613

Gooseneck-Spout Chicago Faucets 26Y275

For information on faucet spout shapes, see page 2733.

Two-Hole Wall-Mount Service Sink Faucets

Faucets are used for frequent, heavy use in maintenance areas for filling buckets and other maintenance tasks. Install new faucets or replace existing faucets. **Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. **Centerset Faucets** install into walls or vertical surfaces that have two centered holes that are 4" apart when measured from center-of-hole to center-of-hole. Chrome finish.

Brand	Series	Faucet Handle Type	Faucet Body Material	Flow Rate	Max. Mounting Hole Center Distance	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout										
Widespread										
Chicago Faucets	445	Lever	Cast Brass	2.2 gpm	8 in	12 in	5 3/8 in	Yes	445-L12ABCP	**26Y233**
Centerset										
Moen	Chateau	Dome Lever	Brass	2.2 gpm	4 in	5 7/16 in	6 5/8 in	Yes	74998	**4ZF68**
Straight-Spout										
Widespread										
American Standard	8344	Lever	Brass	16.0 gpm	8 in	10 1/4 in	—	Yes	8344212.004	**29RT22**
	8350	Lever	Cast Brass	15.0 gpm	8 in	6 3/4 in	—	Yes	8350243.004	**41H839**
	8351	Lever	Cast Brass	15.0 gpm	8 in	7 1/4 in	—	Yes	8351076.004	**41H840**
Chicago Faucets	—	Lever	Cast Brass	12.0 gpm	8 in	2 1/8 in	—	Yes	305-RCF	**5E962**
	—	Lever	Cast Brass	12.0 gpm	8 in	2 3/8 in	4 7/8 in	Yes	305-VBRRCF	**2P946**
	—	Lever	Cast Brass	12.0 gpm	8 in	5 3/4 in	4 1/8 in	Yes	897-RCF	**2P954**
	—	Lever	Cast Brass	12.0 gpm	8 in	5 5/8 in	5 3/4 in	Yes	886-CP	**2LYP2**
	—	Lever	Cast Brass	2.2 gpm	8 in	6 in	—	Yes	445-ABCP	**3TFH5**
Moen	M-Dura	Lever	Brass	2.2 gpm	8 in	4 in	—	Yes	8230	**40D653**
Speakman	Commander	Cross	Brass	14.0 gpm	8 in	9 in	—	No	SC-5811-RCP	**6MPF5**
Zurn	AquaSpec	Lever	Brass	0.5 gpm	8 in	6 1/2 in	4 1/8 in	No	Z843M1-XL	**24A613**
Gooseneck-Spout										
Centerset										
Chicago Faucets	—	Lever	Cast Brass	1.5 gpm	3 in	3 3/8 in	7 5/8 in	Yes	225-ABCP	**26Y275**

Low-Arc-Spout T&S 4XKK1

Gooseneck-Spout American Standard 4THR1

Gooseneck-Spout Delta 4NLL4

Gooseneck-Spout Advance Tabco 3KJU8

Straight-Spout Chicago Faucets 26Y239

Gooseneck-Spout Zurn 4JPC6

Multipurpose Faucets

Simple two handle faucet designs are used in many different types of locations, including kitchens, bathrooms, break rooms, and hospitals. Chrome finish. **Two-Hole Centerset Faucets** install onto sinks, counters, walls, or other vertical or horizontal surfaces that have two centered holes that are 4" apart when measured from center-of-hole to center-of hole. **Two-Hole Widespread Faucets** install into walls or vertical surfaces that have two centered holes that are 8" apart when measured from center-of-hole to center-of-hole. **Three-Hole Widespread Deck-Mount Faucets** install into a sink, counter, or horizontal surface with three holes where the outermost holes are 8" apart when measured from center-of-hole to center-of-hole.

Brand	Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Two-Hole Centerset Deck-Mount									
Low-Arc-Spout-Spout, Lever Handle									
T&S Brass	—	Brass	2.2 gpm	Aerated	12 in	8 1/8 in	Yes	B-1123	**4XKK1**
	—	Brass	2.2 gpm	Aerated	8 in	6 3/4 in	Yes	B-1111	**4XKJ8**
Gooseneck-Spout, Wristblade Handle									
American Standard	Monterrey	Cast Brass	1.5 gpm	Aerated	5 in	6 3/4 in	Yes	7500170.002	**4THR1**
Chicago Faucets	894	Cast Brass	2.2 gpm	Aerated	3 1/2 in	9 5/8 in	Yes	894-317ABCP	**26Y232** *
	895	Cast Brass	1.5 gpm	Laminar	5 1/4 in	11 1/8 in	Yes	895-317GN2FCAB	**26Y188**
	895	Cast Brass	2.2 gpm	Aerated	3 1/2 in	9 5/8 in	Yes	895-317ABCP	**3TFJ3**
	1100	Cast Brass	2.2 gpm	Aerated	5 1/4 in	12 1/8 in	Yes	1100-G2E3-317AB	**26Y191**
Delta	Delta Commercial	Cast Brass	1.5 gpm	Aerated	4 1/2 in		Yes	27C4842	**4NLL4**
T&S Brass	—	Brass	2.2 gpm	Aerated	3 3/4 in	9 1/2 in	Yes	B-0892	**5NRE5**
Zurn	AquaSpec	Brass	0.5 gpm	Aerated	5 3/8 in	12 1/8 in	Yes	Z871B4-XL-3F	**46CE23**
	AquaSpec	Brass	0.5 gpm	Aerated	8 in	13 5/8 in	Yes	Z871C4-XL-3F	**46CE24**
	AquaSpec	Brass	0.5 gpm	Laminar	3 1/2 in	10 7/16 in	Yes	Z812A4-XL-FC0.5	**48UL49**
	AquaSpec	Brass	2.2 gpm	Aerated	11 15/16 in	11 5/16 in	Yes	Z812B4-XL	**4JPC5**
	AquaSpec	Brass	2.2 gpm	Aerated	5 3/8 in	12 1/8 in	Yes	Z871B4-XL	**41J488**
Two-Hole Centerset Wall-Mount									
Low-Arc-Spout-Spout, Lever Handle									
T&S Brass	—	Brass	2.2 gpm	Aerated	12 in	7 3/8 in	Yes	B-1128	**4XKK2**
	—	Brass	23.09 gpm	Aerated	6 in	5 5/8 in	Yes	B-0232	**4XKK3**
Gooseneck-Spout, Lever Handle									
Advance Tabco	Heavy Duty	Brass	0.5 gpm	Aerated	3 1/2 in	8 3/8 in	No	K-59	**3KJU8**
Two-Hole Widespread Wall-Mount									
Straight-Spout, Lever Handle									
Chicago Faucets	540	Cast Brass	2.2 gpm	Aerated	6 in	2 in	Yes	540-LDXKABCP	**26Y239**
	540	Cast Brass	2.2 gpm	Aerated	6 in	2 in	Yes	540-LDABCP	**26Y304**
Gooseneck-Spout, Wristblade Handle									
Chicago Faucets	631	Cast Brass	1.5 gpm	Aerated	3 1/2 in	8 3/4 in	Yes	631-E35RABCP	**48YD73**
	631	Cast Brass	2.2 gpm	Aerated	3 1/2 in	8 3/4 in	Yes	631-ABCP	**26Y198**
Three-Hole Widespread Deck-Mount									
Gooseneck-Spout, Wristblade Handle									
American Standard	Monterrey	Cast Brass	1.5 gpm	Aerated	5 in	6 1/2 in	Yes	6540170.002	**5UTL2**
	Monterrey	Cast Brass	1.5 gpm	Aerated	8 in	8 in	Yes	6409170.002	**24PR24**
	Monterrey	Cast Brass	1.5 gpm	Laminar	8 in	8 in	Yes	6409180.002	**24PR25**
Chicago Faucets	786	Cast Brass	1.5 gpm	Aerated	5 1/4 in	11 5/8 in	Yes	786-HGN2AE35AB	**48YD83**
	786	Cast Brass	1.5 gpm	Laminar	5 1/4 in	11 5/8 in	Yes	786-GN2FCABCP	**3TFH9**
	786	Cast Brass	2.2 gpm	Aerated	3 1/2 in	10 1/8 in	Yes	786-GN1AE3ABCP	**3TFH7**
	786	Cast Brass	2.2 gpm	Aerated	5 1/4 in	11 5/8 in	Yes	786-E3ABCP	**3TFH8**
	786	Cast Brass	2.2 gpm	Laminar	5 1/4 in	11 5/8 in	Yes	786-E29ABCP	**6XAF5**
	786	Cast Brass	2.2 gpm	Laminar	8 in	11 5/8 in	Yes	786-GN8AE29ABCP	**5UTV0**
T&S Brass	—	Brass	2.2 gpm	Aerated	5 3/4 in	10 11/16 in	Yes	B-2867-04	**5NRE6**
	—	Brass	2.2 gpm	Spray	10 3/4 in	10 11/16 in	No	B-2865-04	**4XKK9**
	—	Brass	2.2 gpm	Spray	10 13/16 in	10 5/8 in	Yes	B-2866-04	**2MCT1**
Zurn	AquaSpec	Brass	2.2 gpm	Aerated	11 15/16 in	11 in	Yes	Z831B4-XL	**4JPC6**

** Drain with pop-up rod.*

For information on faucet spout shapes, see page 2733.

Gooseneck-Spout Chicago Faucets 41N758

Gooseneck-Spout Watersaver Faucet 2DCJ1

Gooseneck-Spout Watersaver Faucet 2DCK1

Straight-Spout Zurn 46CE07

Laboratory Faucets

Faucets are used for rinsing, cleaning, or filling glassware and vessels in laboratories in schools, hospitals, and research facilities. Chrome faucet finish, except 41N757 is PVC.

Brand	No. of Handles	Faucet Handle Material	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Single-Hole Deck-Mount										
Gooseneck-Spout, Cross Handle										
Chicago Faucets	1	Metal	Cast Brass	1 gpm	Nozzle	5¼"	13"	Yes	969-CTF	**41N758**
	1	Plastic	Plastic	1 gpm	Nozzle	6"	13⅞"	Yes	869-BPVC	**41N757**
Watersaver Faucet	1	Brass	Brass	2 gpm	Nozzle	6"	12½"	No	L614VB	**2DCH7**
	1	Brass	Brass	2.2 gpm	Nozzle	6"	12¾"	No	L694	**2DCK2**
	1	Plastic	Brass	2.2 gpm	Nozzle	6"	12¾"	No	L684	**3CWK4**
	2	Brass	Brass	2 gpm	Nozzle	6"	12½"	No	L414VB	**2DCJ1**
	2	Brass	Brass	2.2 gpm	Nozzle	6"	12¾"	No	L414	**2DCH9**
Gooseneck-Spout, Knob Handle										
Watersaver Faucet	1	Plastic	Brass	1.1 gpm	Nozzle	6"	10¾"	No	L7833	**2DCK3**
Gooseneck-Spout, Lever Handle										
Watersaver Faucet	1	—	Brass	1.1 gpm	Nozzle	6"	10¾"	Yes	L7833SC	**2DCK4**
	1	Brass	Brass	2 gpm	Nozzle	6"	12½"	Yes	L614VB-LE	**3CWK1**
	1	Brass	Brass	2.6 gpm	Aerated	6"	12¾"	Yes	L614-55LE	**2DCH4**
	2	Brass	Brass	3 gpm	Aerated	6"	12½"	Yes	L414VB55LE	**3CWJ9**
	2	Brass	Brass	3.2 gpm	Aerated	6"	12¾"	Yes	L414-55LE	**2DCH5**
Zurn	2	—	Brass	0.5 gpm	Aerated	6⅜"	13⅜"	Yes	Z826B1-XL-3F	**46CE08**
Straight-Spout, Lever Handle										
Zurn	1	—	Brass	0.5 gpm	Aerated	7"	4⅞"	Yes	Z825F1-XL-3F	**46CE07**
	2	—	Brass	0.5 gpm	Aerated	7"	5⅛"	Yes	Z826F1-XL-3F	**46CE09**
Two-Hole Centerset Wall-Mount										
Gooseneck-Spout, Cross Handle										
Watersaver Faucet	2	Brass	Brass	3.2 gpm	Aerated	6"	13"	No	L214-55WSA	**3CWK2**
Three-Hole Widespread Deck-Mount										
Gooseneck-Spout, Wristblade Handle										
Watersaver Faucet	2	Brass	Brass	3 gpm	Aerated	6"	10⅞"	Yes	L2224VB	**3CWK3**
	2	Brass	Brass	3.2 gpm	Aerated	6"	11⅛"	Yes	L2224	**2DCK1**

Item	For Use With	Mfr. Model	Brand	Item No.
Replacement Parts for WaterSaver Faucets				
Cold Cartridge	Left hand thread	BNV200LH-90	Watersaver Faucet	**3CWL7**
Foot Pedal Valve	L3001 / 3050 Foot-Operated Valves	BSC011	Watersaver Faucet	**3CWK8**
Foot Pedal Valve	Mfr. No. L084-55WSA and L074-55WSA	L3050	Watersaver Faucet	**2DCJ3**
Hot/Cold Cartridge	Faucets with four-arm handles	BNV200	Watersaver Faucet	**3CWL5**
Hot Cartridge	Right hand thread	BNV200-90	Watersaver Faucet	**3CWL6**
Spout	For Watersaver Laboratory Faucets, 11-1/8"H	L084-55WSA	Watersaver Faucet	**2DCJ4**
Spout	For Watersaver Laboratory Faucets, 9"H	L074-55WSA	Watersaver Faucet	**2DCJ5**
Vacuum Breaker Kit	Repair Kit for L100, L101, L103	RK100R	Watersaver Faucet	**3CWL3**

Washdown Nozzles and Fittings

- Rated at 150 psi, up to 200°F

Designed for use in food processing and food service applications. Variable spray is trigger controlled and shuts off instantly when trigger is released.

WASHDOWN HOSES

Tube and cover material is EPDM and textile reinforcement. ¾" GHT stainless steel female inlet and ¾" swivel male on other end. Rated at 300 psi.

Description	Mfr Model	Item No.
Large Nozzle Repair Parts		
Handle Repair Kit	N8HR	**28DV96**
Barrel Cartridge Replacement	N8BR	**28DV97**
Insulated Cover, Safety Orange	N8OC	**28DV93**
Insulated Cover, Black	N8BC	**28DV94**
Insulated Cover, White	N8WC	**28DV95**
Mid-Sized Nozzle Repair Parts		
Handle, Stainless Steel	N1HR	**18D871**
Barrel Cartridge Repair Kit, Stainless, Brass	N1BR	**18D870**
Barrel Cartridge Repair Kit, Stainless Steel	N1BRS	**28DV98**
Nozzle Replacement Insulation Cover, Orange	N1OC	**41J447**
Nozzle Replacement Insulation Cover, White	N1WC	**41J449**
Garden Hose Washer	W12	**46CF29**

Description	Mfr Model	Item No.
Foamers and Sanitizers		
Foamer, 48 oz. Capacity	N2F48	**41J430**
Foamer, 96 oz. Capacity	N2F	**18D865**
Sanitizer, 48 oz. Capacity	N2FS4	**41J432**
Sanitizer, 96 oz. Capacity	N2FS	**41J431**
Replaceable Coupler	N2FC	**41J433**
Foamer Lid Assembly, 48 oz.	N2F48L	**41J435**
Foamer Lid Assembly, 96 oz.	N2FL	**18D866**
Replaceable Metering Tip Kit	N2FM	**18D867**
Hot and Cold Water Mixing Station		
Brass w/Gate Valves	M1	**18D876**

31TT30

24PR62

41J441

31TT28

18D871

18D870

Item	Max. Pressure	Connection	Color	Construction Material*	Flow Rate (gpm)	Mfr Model	Item No.
Large Nozzles							
Hot/Cold Spray Nozzle	150 psi	¾ in GHT Female Inlet	Black	Brass/S.S.	8.9	N8B20	**31TT30**
	150 psi	¾ in GHT Female Inlet	Safety Orange	Brass/S.S.	8.9	N820	**31TT29**
	150 psi	¾ in GHT Female Inlet	White	Brass/S.S.	8.9	N8W20	**31TT31**
Spray Nozzle	150 psi	¾ in GHT	White	Brass/S.S.	8.9	N8W	**28DV91**
Water Nozzle	150 psi	¾ in GHT	Black	Brass/S.S.	8.9	N8B	**24PR63**
	150 psi	¾ in GHT	Safety Orange	Brass/S.S.	8.9	N8	**24PR62**
Large Low-Flow Nozzles							
Spray Nozzle	150 psi	¾ in GHT	White	Brass/S.S.	5.3	N81W	**28DV92**
Water Nozzle	150 psi	¾ in GHT	Black	Brass/S.S.	5.3	N81B	**24PR65**
	100 psi	¾ in GHT	Safety Orange	Brass/S.S.	5.3	N81	**24PR64**
Water Saver Hot/Cold Spray Nozzle	150 psi	¾ in GHT Female Inlet	Black	Brass/S.S.	5.3	N81B20	**31TT33**
	150 psi	¾ in GHT Female Inlet	Safety Orange	Brass/S.S.	5.3	N8120	**31TT32**
Mid-Sized Nozzles							
Spray Nozzle	150 psi	¾ in GHT	Black	AL, Brass/ S.S.	7	N1AB	**41J439**
	150 psi	¾ in GHT	Black	S.S.	7	N1SSB	**41J442**
	150 psi	¾ in GHT	Black	Brass/S.S.	7	N1TB	**41J445**
	150 psi	¾ in GHT	Safety Orange	AL, Brass/ S.S.	7	N1A	**41J437**
	150 psi	¾ in GHT	Safety Orange	S.S.	7	N1SS	**41J440**
	150 psi	¾ in GHT	Safety Orange	Brass/S.S.	7	N1T	**41J443**
	150 psi	¾ in GHT	White	AL, Brass/ S.S.	7	N1AW	**41J438**
	100 psi	¾ in GHT	White	S.S.	7	N1SSW	**41J441**
	150 psi	¾ in GHT	White	Brass/S.S.	7	N1TW	**41J444**
	150 psi	¾ in GHT Female Inlet	Yellow	Brass	7	N1Y	**46CF30**
	150 psi	¾ in GHT Female Inlet	Yellow	S.S.	7	N1SSY	**46CF32**
	150 psi	¾ in GHT Female Inlet	Yellow	Brass	7	NITY	**46CF33**
Water Nozzle	100 psi	¾ in GHT	Black	Brass/S.S.	7	N1B	**18D869**
	100 psi	¾ in GHT	Safety Orange	Brass/S.S.	7	N1	**6XUV8**
	100 psi	¾ in GHT	White	Brass/S.S.	7	N1W	**18D868**
Small Industrial Nozzles							
Spray Nozzle	100 psi	¾ in GHT Female Inlet	Black	Brass/S.S., Zinc	6.5	N2B	**31TT23**
	100 psi	¾ in GHT Female Inlet	Blue	Brass/S.S., Zinc	6.5	N2BL	**31TT25**
	100 psi	¾ in GHT Female Inlet	Green	Brass/S.S., Zinc	6.5	N2G	**31TT27**
	100 psi	¾ in GHT Female Inlet	Red	Brass/S.S., Zinc	6.5	N2R	**31TT26**
	100 psi	¾ in GHT Female Inlet	White	Brass/S.S., Zinc	6.5	N2W	**31TT24**
	100 psi	¾ in GHT Female Inlet	Yellow	Brass/S.S., Zinc	6.5	N2Y	**31TT28**
Water Nozzle	100 psi	¾ in GHT	Safety Orange	Zinc, Brass/ S.S.	6.5	N2	**3NVD9**
Reinforced Small Industrial Nozzles							
Insulated Spray Nozzle	—	¾" FGHT	Black	Zinc, Brass/ S.S.	6.5	N2SB	**41J429**
	—	¾ in GHT	White	Zinc, Brass/ S.S.	6.5	N2SW	**41J428**
Water Nozzle	100 psi	¾ in GHT	Safety Orange	Zinc, Brass/ S.S.	6.5	N2S	**18D877**

** S.S. = Stainless Steel. AL = Aluminum.*

Description	Connection (in.)	Brass Mfr Model	Brass Item No.	Stainless Steel Mfr Model	Stainless Steel Item No.	Brass and Stainless Steel Mfr Model	Brass and Stainless Steel Item No.
Swivel Hose Adapters							
360° Swivel	½" Hose Barb x ½" MNPT	—	—	N25S	**53PZ68**	—	—
	½ Hose Barb, ¾ MGHT	—	—	N33S	**53PZ71**	—	—
	⅝" Hose Barb x ½" MNPT	—	—	N26S	**53PZ69**	—	—
	⅝ Hose Barb, ¾ MGHT	—	—	N34S	**53PZ72**	—	—
	¾" Hose Barb x ½" MNPT	—	—	N27S	**53PZ70**	—	—
	¾ Hose Barb, ¾ MGHT	—	—	N35S	**53PZ73**	—	—
Swivel	½" Hose Barb x ½" MNPT	—	—	—	—	N21	**24PR66**
	¾" FGHT x ¾" MGHT	—	—	N17S	**46CF39**	—	—
Swivel, Trigger Lock Ring	½" Hose Barb x ½" MNPT	—	—	N21S	**24PR67**	—	—
	⅝" Hose Barb x ½" MNPT	—	—	N22S	**24PR69**	N22	**24PR68**
	¾" FGHT x ⅜" MNPT	N12	**18D882**	N12S	**46CF38**	—	—
	¾" GHT x ½" NPT	—	—	N11S	**18D881**	—	—
	¾" Hose Barb x ½" MNPT	N15	**18D883**	N15S	**18D884**	—	—
	¾" Hose Barb x ¾" MGHT	N20	**18D887**	N20S	**18D888**	—	—
	¾" FGHT x ½" MNPT	N11	**18D880**	—	—	—	—
	¾" FGHT x ¾" MGHT	N17	**6XUW0**	—	—	—	—
Non-Swivel Hose Adapters							
Non-Swivel	½" MNPT x ¾" Hose Barb	—	—	N14S	**46CF41**	—	—
	½ in MNPT x ¾ in Hose Barb	N14	**28DW01**	—	—	—	—
	¾" FGHT x ½" MNPT	—	—	N13S	**46CF40**	—	—
	¾" FNPT x ¾" MGHT	N31	**53PZ64**	N31S	**53PZ65**	—	—
	¾" MGHT ¾" MNPT	—	—	H26S	**53PZ74**	—	—
	¾" MGHT x ¾" MNPT	H26	**46CF27**	—	—	—	—
	¾ in FGHT x ½ in MNPT	N13	**28DW02**	—	—	—	—
Hose Accessories							
On/Off	¾ in FGHT x ¾ in MGHT	N16	**6XUV9**	N16S	**28DW03**	—	—
Quick Connect / Disconnect	½" MNPT x ¾" FGHT	N18	**46CF42**	N18S	**46CF43**	—	—
	½" MNPT x ¾" FNPT	N24	**46CF46**	N24S	**46CF47**	—	—
	¾" FGHT x ¾" MGHT	N19	**18D885**	N19S	**18D886**	—	—
	¾" FGHT x ¾" MNPT	N28	**53PZ75**	N28S	**53PZ76**	—	—
	¾" MGHT x ¾" FNPT	N23	**46CF44**	N23S	**46CF45**	—	—

Pipe Size	L	Safety Orange Mfr Model	Safety Orange Item No.	White Mfr Model	White Item No.
Washdown Hoses, -20° to 200°F					
1 ⅛ in	25 ft	H253	**53XV12**	H25W3	**53XV16**
	50 ft	H503	**53XV13**	H50W3	**53XV17**
	75 ft	H753	**53XV14**	H75W3	**53XV18**
	100 ft	H1003	**53XV15**	H100W3	**53XV19**

For information on faucet spout shapes, see page 2733.

Low-Arc-Spout
2LYP9

Straight-Spout
2LYJ3

Single-Hole Wall-Mount Inside Sill Faucets

CHICAGO FAUCETS a Geberit company

Faucets install at about windowsill height on the inside of a building. Hoses can be attached for wash-down applications. Cast-brass body with chrome finish, laminar flow outlet, and one blade handle.

Brand	Water Inlet Connection Size	Faucet Handle Material	Flow Rate	Spout Length	Spout Height	ADA Compliance	Mfr. Model	Item No.
Low-Arc-Spout								
Chicago Faucets	½ in	Metal	7.0 gpm	2 ⅜ in	4 in	No	952-12CP	**2LYP9**
	¾ in	Metal	7.0 gpm	2 ⅜ in	4 in	No	952-CP	**2P955**
Straight-Spout								
Chicago Faucets	½ in	Metal	7.0 gpm	1 ⅞ in	—	No	293-CP	**5E963**
	½ in	Metal	7.0 gpm	1 ⅞ in	—	Yes	293-RCF	**2LYJ3**
	¾ in	Metal	7.0 gpm	1 ⅞ in	—	No	387-CP	**2LYJ8**

26Y299

6XAE5

5UTU7

26Y204

Water Supply Stops and Pedals

CHICAGO FAUCETS a Geberit company

Water supply stops shut off water supply to faucets, toilets, etc. Foot pedals allow hands-free faucet operation. Tempering valve controls water flow, pressure, and temperature from a faucet spout.

Description	Conn. (In.)	Mfr. Model	Item No.
Water Supply Stops			
Straight Stop Fitting	½ in FNPT	45-ABCP	**26Y299**
Straight Stop Loose Key Fitting	½ in FNPT	45-LKABCP	**26Y284**
Multi-Turn Supply Stop	½ in FNPT	442-LKABCP	**5UTU1**
Angle Stop Fitting Loose Key	½ in FNPT / ⅜ in Compression	1013-ABCP	**6XAE5**
Angle Stop Fitting w/Supply Tube	½ in FNPT / ⅜ in Compression	1017-ABCP	**6XAE6**
Angle Stop Fitting w/Supply Tube	½ in FNPT / ½ in Compression	1006-ABCP	**6XAE4**
Faucet			
6½ in L Rigid/Swing Gooseneck Spout, 1.5 gpm, Deck Mount	½ in NPSM	626-FCABCP	**6XAF3**
Foot Pedals			
Foot Pedal, Single	½ in FNPT	628-ABCP	**5UTU7**
Foot Pedal, Double	½ in FNPT / ⅜ in FNPT	625-ABCP	**5UTU6**
Knee-Activated Valve Assembly	½ in FNPT / ⅜ in FNPT	745-VOABCP	**26Y204**
Combination Pedal Box	½ in FNPT / ⅜ in FNPT	834-EPABCP	**26Y246**
Tempering Valve			
Tempering Valve, ⅜ in Compression	⅜ in Compression	131-ABNF	**6XAH7**

6MT85

10C483

Faucet Sprayer Pre-Rinse Hose Reels

T&S

Pull hose out to desired length and it stays in position; reel automatically retracts with a slight tug. With ⅜ in FNPT inlet, heat-resistant handle, and adjustable hose bumper. FNPT connection.

Reel Length	Flow Rate	Includes	Mfr. Model	Item No.
15 ft	3.7 gpm	Ceiling or Under Counter Mounting, Heatresistant Handle and Adjustable Hose Bumper, Multifit Bracket for Wall	B-7212-01	**6MT85**
30 ft	4.28 gpm	Spray Valve	B-7222-C01	**10C483**
35 ft	3.89 gpm	Heat Resistant Handle and Adjustable Hose Bumper, Hose, Multifit Bracket	B-7232-01	**6MT84**

Fixed & Handheld Showerhead
22LU06

Fixed Showerhead
2ZMN5

Exposed Showerhead
4NGW9

Bradley MOEN POWERS American Standard ZURN SPEAKMAN

Shower Faucets

- ½ in connection

Faucets include fixed and/or handheld showerheads, attachment hardware, faucet control handles, and matching trim. Components are interchangeable without altering the behind-the-wall plumbing. All showerheads are single function, except 22LU07, which is dual function. For a complete list of standards, go to Grainger.com and search for individual products.

American Standard—One-piece cartridge simplifies installation and maintenance.

Bradley—Adjustable showerhead for a 25° to 30° spray angle.

Moen—Install 4ZF99 with Posi-Temp Pressure Balancing Control Valve to maintain water temperature control in the shower. 52RR02 has an adjustable temperature limit stop.

Powers—Thermostatic valves respond almost instantly to dramatic pressure changes. Self-contained cartridge simplifies maintenance and repair.

Speakman—Have chrome-plated, 4-arm handles with color-coded indexes. Reversible valve body and ¼-turn ceramic cartridges. Galvanized gooseneck with support strap.

Zurn—Feature two service stops/check stops and adjustable limit stop.

Brand	Series	Fixed Showerhead Flow Rate	Connec. Type	Trim Finish	Showerhead Material	Showerhead Spray Pattern	Showerhead Shape	No. of Handles	Faucet Handle Type	ADA Compliance	Mfr. Model	Item No.
Shower Faucets With Fixed Showerheads												
Bradley	SafeCare	2 gpm	NPT	Chrome	Brass	Regular	Trumpet	1	Knob	No	S77-952	**23MU63**
Moen	Chateau	2.5 gpm	CC	Chrome	Brass	Regular	Bulb	1	Lever	Yes	L2352	**4ZF99**
Powers	Biltmore 900	4.6 gpm	IPS	Chrome	—	Regular	Trumpet	1	Lever	Yes	P910Gk1	**2ZMN5**
Shower Faucets With Fixed & Handheld Showerheads												
Amer. Std.	Commercial	1.5 gpm	FNPT	Polished-Chrome	Metal, Plastic	Regular	Bulb	1	Lever	Yes	TU662213.002	**55DM42**
Amer. Std.	Commercial	2.5 gpm	FNPT	Polished-Chrome	Metal, Plastic	Regular	Bulb	1	Lever	Yes	TU662223.002	**55DM44**
Moen	Commercial	1.5 gpm	NPT	Chrome	Brass, Stainless Steel	Regular	Flat Circle	1	Lever	Yes	8342EP15	**52RR02**
Powers	Biltmore 900	2.5 gpm	NPT	Chrome	Brass	Regular	Trumpet	1	Lever	Yes	P910GK1-5YW	**2ZMN6**
Zurn	Temp Gard III Z7300	2.5 gpm	FNPT	Polished-Chrome	Ceramic, Metal, Stainless Steel	Regular	Bulb	1	Lever	Yes	Z7300-SS-MT-HW	**22LU06**
Zurn	Temp Gard III Z7301	2.5 gpm	FNPT	Polished-Chrome	Ceramic, Metal, Plastic, Stainless Steel	Regular	Bulb	1	Lever	Yes	Z7301-SS-MT-DV-2P-HW	**22LU07**
Exposed Shower Faucets With Fixed Showerheads												
Speakman	Commander	2 gpm	NPTF	Chrome	Plastic	Jet	Bulb	2	Cross	No	SC-1220-AF	**4NGW9**
Speakman	Sentinel Mark II	2 gpm	NPTF	Chrome	Plastic	Jet	Bulb	1	Lever	Yes	S-1496-AF	**34D882**
Speakman	Sentinel Mark II	2.5 gpm	NPTF	Polished-Chrome	Plastic	Jet	Bulb	1	Lever	No	S-1495-AF	**455D36**

Fixed Showerheads

- ½" connection

Wall-mount showerheads are typically smaller (less than 5"-dia.) in size and include a single-function, dual-function, or multi-function spray face or nozzle for adjusting spray patterns. They are commonly found in residences, hotels/motels, and behavioral facilities. For a complete list of standards, go to Grainger.com and search for individual products.

American Standard—3KTD7 and 6NWE4 turbine spray have a flow rate of 1.5 gpm, which can reduce water use by up to 40%.

Chicago Faucets—Solid brass construction with chrome-plated finish.

Danze—Feature easy-glide selector ring.

Moen—Nonmetallic spray face and shell with a brass swivel ball assembly.

Sloan—Feature spring-loaded spray disk to prevent particle clogging. 5E548 and 4FEZ4 have a thumbscrew volume control. 5E547 features an adjustable spray direction and mounting plate with vandal-resistant screws.

Speakman—The pressure-compensating plunger system helps optimize low water pressure for more efficient performance.

Zurn—6RKG7 and 6RKH2 are self-cleaning. 6RKH2 adds a flow compensator to maintain a constant flow rate.

Single Function
4KTH5

Dual Function
6RKG7

Multi-Function
49AU87

Ligature & Vandal Resistant
2WLN8

Brand	Series	Fixed Showerhead Flow Rate	Connec. Type	Showerhead Material	Trim Finish	Fixed Showerhead Width	Face Dia.	Showerhead Spray Pattern	Showerhead Shape	Mfr. Model	Item No.
Single Function											
Amer. Std.	FloWise	1.5 gpm	FNPT	Metal, Plastic	Polished-Chrome	1⅞"	1⅞"	Regular	Cylinder	1660710.002	**3KTD7**
Chicago	620	2.5 gpm	FNPT	Brass	Polished-Chrome	1⅝"	1¼"	Regular	Cylinder	620-CP	**4KTH5**
Sloan	Act-O-Matic	2 gpm	NPT	Brass	Polished-Chrome	2½"	2½"	Regular	Cylinder	AC11-2.0	**4FEZ4**
Sloan	Act-O-Matic	2.5 gpm	NPT	Brass	Polished-Chrome	2½"	2½"	Regular	Cylinder	AC11-2.5	**5E548**
Dual Function											
Amer. Std.	Reliant, Elite, Princeton	2.5 gpm	FNPT	Metal, Plastic	Polished-Chrome	4"	4"	Combo	Flat Circle	M953530-0020A	**6NWH7**
Zurn	Temp Gard Z7000-S6	2.5 gpm	FNPT	Brass	Chrome	1¾"	1¾"	Regular	Trumpet	Z7000-S6	**6RKG7**
Zurn	Water Saver Z7000-S9	1.5 gpm	FNPT	Plastic	Chrome	1½"	2⅝"	Regular	Bulb	Z7000-S9	**6RKH2**
Multi-Function											
Danze	Florin	2.5 gpm	NPT	Brass, Plastic	Chrome	4½"	4½"	Combo	Trumpet	D460036	**29VL05**
Danze	Parma	2 gpm	NPT	Brass, Plastic	Chrome	4½"	4½"	Combo	Cylinder	D460055	**29VL07**
Danze	Parma	2.5 gpm	NPT	Brass, Plastic	Chrome	4½"	4½"	Combo	Cylinder	D460056	**29VL08**
Moen	3855	1.75 gpm	IPS	Brass, Non Metal	Chrome	4"	4"	Combo	Bulb	3855EP	**49AU87**
Moen	3855	2.5 gpm	IPS	Brass, Non Metal	Chrome	4"	4"	Combo	Bulb	3855	**13Z944**
Moen	Envi	1.75 gpm	IPS	Brass, Non Metal	Chrome	4"	4"	Regular	Bulb	3233EP	**4NEF1**
Speakman	Chelsea	2.5 gpm	NPTF	Brass, Plastic	Polished-Chrome	4½"	4½"	Combo	Trumpet	S-3011	**15F374**
Speakman	Classic	1.75 gpm	FNPT	Brass	Polished-Chrome	2¼"	2¼"	Concentrated	Bulb	S-2253-E175	**2WLN7**
Speakman	Hotel S-2005-HB	2.5 gpm	NPTF	Brass, Plastic	Polished-Chrome	4⅛"	4⅛"	Combo	Bulb	S-2005-HB	**2WLN5**
Speakman	Icon S-2252	2 gpm	Female NPTF	Brass	Polished-Chrome	2¾"	2¹³⁄₁₆"	Combo	Bulb	S-2252-E2	**6MPG1**
Speakman	Icon S-2252	2.5 gpm	FNPT	Brass	Polished-Chrome	2¾"	2¹³⁄₁₆"	Combo	Bulb	S-2252	**6MPG0**
Speakman	Neo S-3010	2 gpm	NPTF	Brass, Plastic	Polished-Chrome	6"	5½"	Combo	Flat Circle	S-3010-E2	**22FD76**
Speakman	Neo S-3010	2 gpm	NPTF	Brass, Plastic	Brushed-Nickel	6"	5½"	Combo	Flat Circle	S-3010-BN-E2	**45W766**
Speakman	Neo S-3010	2.5 gpm	NPTF	Brass, Plastic	Polished-Chrome	6"	5½"	Combo	Flat Circle	S-3010	**15F343**
Ligature & Vandal Resistant Fixed Showerheads											
Amer. Std.	FloWise Vandal Resistant	1.5 gpm	FNPT	Metal, Plastic	Polished-Chrome	1⅞"	1⅞"	Regular	Cylinder	1660711.002	**6NWE4**
Chicago	621	2 gpm	FNPT	Brass	Polished-Chrome	2⅞"	1¼"	Regular	Cylinder	621-CP	**5UTU5**
Sloan	Act-O-Matic	2.5 gpm	IPS	Brass	Polished-Chrome	4⅜"	4⅜"	Regular	Bulb	AC450-2.5	**5E547**
Speakman	Adjusta-Spray	2.5 gpm	NPTF	Brass	Polished-Chrome	4"	2"	Regular	Bulb	S-2460	**2WLN8**
Zurn	Temp Gard Z7000-I2	2.5 gpm	FNPT	Bronze	Chrome	2⅛"	⅝"	Regular	Cylinder	Z7000-I2	**6RKG5**

Handheld Showerheads

- ½" connection

Showerheads can remain fixed in mounting bracket or be removed for use while standing or sitting. A flexible hose allows the showerhead to move freely and direct water to hard-to-clean areas. Used to customize showers in residences, schools, and factory locker rooms. For a complete list of standards, go to Grainger.com and search for individual products.

American Standard—Pause feature on handle reduces flow to a trickle. 448N46 turbine spray has a flow rate of 1.5 gpm, which can reduce water use by up to 40%.

Encore—Models feature an eco-friendly design.

Ez-Flo—Includes a 59" stainless steel hose.

Grohe—Feature SpeedClean anti-lime system.

Kohler—493J03 and 493J04 feature an intense drenching spray that delivers a forceful spray. 493J05 and 493J06 spray face resists hard water buildup for easy cleaning.

Moen—Showerheads are vandal-resistant.

Speakman—49AJ94–49AJ97 feature 147 sprays and 5 spray patterns. 455F01–455F03 feature spray-adjusting Anystream technology.

Single Function
2YDV7

Multi-Function
493J06

Multi-Function
444K46

Multi-Function
55DM54

Brand	Series	Handheld Showerhead Flow Rate	Connec. Type	Showerhead Material	Trim Finish	Handheld Showerhead Width	Face Dia.	Showerhead Spray Pattern	Showerhead Shape	ADA Compliance	Mfr. Model	Item No.
Handheld Showerheads Only												
Single Function												
Encore	SaniShower	2 gpm	NPSM	ABS Plastic	White	2 ¹³⁄₁₆ in	2¹³⁄₁₆ in	Regular	Flat Circle	Yes	SS10-0100	**2YDV7**
Encore	SaniShower with Shut-Off	2 gpm	NPSM	ABS Plastic	White	2 ¹³⁄₁₆ in	2¹³⁄₁₆ in	Regular	Flat Circle	Yes	SS10-0200	**2YDV8** *
Grohe	Euphoria	1.5 gpm	NPT	Metal, Plastic	Chrome	4 ⅝ in	—	Rain	Bulb	No	2726500E	**499D07**
Moen	Commercial	1.5 gpm	NPSM	Plastic	Chrome	3 ⁵⁄₁₆ in	3⁵⁄₁₆ in	Regular	Flat Circle	Yes	8349EP15	**15A829**
Multi-Function												
Amer. Std.	3 Function with Pause	1.5 gpm	NPSM	Metal, Plastic	Polished Chrome	3 ⅜ in	—	Combo	Bulb	Yes	1660766.002	**448N46**
Grohe	Movario	2.5 gpm	NPSM	Metal, Plastic	Chrome	4 ¾ in	—	Combo	Bulb	No	28444000	**499D28**
Kohler	Awaken B110	2 gpm	BSP	Metal	Polished Chrome	4 ⅝ in	6⁷⁄₁₆ in	Combo	Flat Circle	Yes	K-72421-CP	**493J04**
Kohler	Awaken G110 Geometric	2 gpm	BSP	Metal	Polished Chrome	4 ⁵⁄₁₆ in	6⁷⁄₁₆ in	Combo	Flat Circle	Yes	K-72415-CP	**493J03**
Kohler	Shift	2 gpm	NPT	Metal	Polished Chrome	¹⁵⁄₁₆ in	6½ in	Massage	Oval	No	K-45415-CP	**493J05**
Kohler	Shift Square	2 gpm	NPT	Metal	Polished Chrome	¹⁵⁄₁₆ in	6½ in	Massage	Square	No	K-45203-CP	**493J06**
Handheld Showerheads With Wall-Mounted Brackets & Connection Hoses												
Single Function												
Moen	Commercial	1.5 gpm	NPT	Metal	Chrome	3 ³⁄₁₆ in	3³⁄₁₆ in	Regular	Bulb	No	52748EP15	**52JN12**
Multi-Function												
Ez-Flo	—	2 gpm	FNPT	ABS Plastic	Chrome	4 in	—	Combo	Flat Circle	No	15143	**444K46**
Speakman	Chelsea	2 gpm	NPSM	Plastic	Brushed Nickel	4 in	—	Massage		No	VS-3011-BN-E2	**455F03**
Speakman	Chelsea	2.5 gpm	NPSM	Plastic	Polished Chrome	4 in	—	Massage		No	VS-3011	**455F01**
Speakman	Chelsea	2.5 gpm	NPSM	Plastic	Brushed Nickel	4 in	—	Massage		No	VS-3011-BN	**455F02**
Speakman	Rio	2 gpm	NPSM	Plastic	Brushed Nickel	4 ½ in	4½ in	Massage	Flat Circle	No	VS-1240-BN-E2	**49AJ96**
Speakman	Rio	2 gpm	NPSM	Plastic	Polished Chrome	4 ½ in	4½ in	Massage	Flat Circle	No	VS-1240-E2	**49AJ97**
Speakman	Rio	2.5 gpm	NPSM	Plastic	Polished Chrome	4 ½ in	4½ in	Massage	Flat Circle	No	VS-1240	**49AJ94**
Speakman	Rio	2.5 gpm	NPSM	Plastic	Brushed Nickel	4 ½ in	4½ in	Massage	Flat Circle	No	VS-1240-BN	**49AJ95**
Handheld Showerheads With Wall-Mounted Slide Bars & Connection Hoses												
Single Function												
Grohe	Euphoria Cube	2.5 gpm	NPT	Metal, Plastic	Chrome	4 ½ in	3 in	Regular	Rectangle	No	27891000	**499D04**
Moen	Commercial	1.5 gpm	NPT	Metal, Rubber	Chrome	3 ⁵⁄₁₆ in	2 in	Regular	Flat Circle	Yes	52710EP15	**52JM92**
Moen	Commercial	2.5 gpm	NPT	Brass	Chrome	3 ⁵⁄₁₆ in	3⁵⁄₁₆ in	Regular	Flat Circle	Yes	8346	**4FA79**
Multi-Function												
Amer. Std.	Spectra+	1.8 gpm	FNPT	Metal, Plastic	Polished Chrome	4 ½ in	4½ in	Combo	Flat Circle	No	1660774.002	**55DM54**

** With shutoff.*

6PE23

15F354

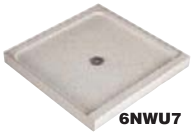
Shower and Tub Parts

Bathtub and shower repair parts are used to repair or replace worn, lost, or damaged parts. For more plumbing repair parts, see Grainger.com.

Description	Material of Construc.	Trim Finish	Brand	Mfr. Model	Item No.
Shower Arms					
6 in Shower Arm with Flange	Stainless Steel	—	Trident	6PE23	**6PE23**
Shower Hoses					
59 in Hose, Brushed Nickel Finish	Metal	—	Amer. Std.	8888035.295	**29RR89**
60 in Polished Chrome Finish	Metal	—	Speakman	VS-157	**48RF27**
Shower Trim Parts					
Tub and Shower Trim, Lever Handle	Brass	Chrome	Delta	T13020	**4NLL9**
Shower Valves, 1/2 in Conn.					
Bathtub and Shower Valve, CC Connec., 4 Ports	Brass	—	Moen	2570	**4FA84**
Bathtub and Shower Valve, NPT Connec., 2 Ports	Brass	—	Amer. Std.	RU101SS	**55DM30**
Shower Valve, NPT Connec., 4 Ports	Brass	—	Amer. Std.	RU101	**55DM29**
Shower Valve, PEX Connec., 2 Ports	Brass	—	Amer. Std.	RU107	**55DM31**
Thermostatic/ Pressure Balancing Valve, Lever Handle, FNPT, MNPT Connec.	Brass	Chrome	Chicago Faucets	2500-VOCCP	**2LYJ1**
Tub and Shower Valve, Lever Handle, NPT Connec.	Bronze	Chrome	Bradley	S59-2005	**1ZMG8**
Tub and Shower Valve, Lever Handle, NPT Connec.	Brass	Chrome	Powers	E423-0000	**4KUF8**
Tub Spouts, 1/2 in Conn.					
Tub Diverter Spout, 5 ¾ in L	Metal	Brushed Nickel, Matte, Polished Chrome	Speakman	S-1558	**15F354**
Tub Spout, No Diverter, 5 ¾ in L	Metal	Chrome	Speakman	S-1557	**15F353**
Tub Spout, No Diverter, 6 3⁄32 in L	Metal	Brushed Nickel, Polished Chrome	Speakman	S-1559	**15F383**
Tub Spout, No Diverter, 6 in L	Metal	Chrome	Speakman	S-1561	**15F369**

4ARZ7

1MEW2


6NWU7

Shower Stall, Panels, and Bases

Shower Stall is a prefabricated, ready-to-install unit that includes walls, floor, showerhead, faucet, and curtain. It can be fully enclosed with an optional glass door. Commonly found in residences, motels/hotels, and school, gym, or factory locker rooms. **Shower Faucet Panels** replace existing showerheads with one oversized panel. They are often used to retrofit existing showers and include valves, showerheads, water outlets, and volume controls. **Shower Bases** are the floors that fit inside shower wall panels. Drain included. 6NWU7 is ADA compliant and meets ASME and ANSI standards.

Description	Base Size	Overall Height	Connec. Size	Brand	Item No.
Shower Stall & Optional Glass Door					
Shower Stall, Durastall Series	32 ⅝ in x 32 ⅝ in	75 ⅜ in	2 in	Mustee	**4ARZ7**
Obscured Tempered Glass Door	—	64 in	—	Durastall	**494M47**

Showerhead Type	Overall Height	Overall Width	Overall Depth	Shower Connection Type	Brand	Item No.
Shower Faucet Panels						
Wall Mounted, Fixed	22 ¾ in	6 ¾ in	3 ⅛ in	½ in FNPT	Bradley	**1MEW2**
Fixed and Handheld	37 ⅝ in	6 ¾ in	3 ⅛ in	½ in NPT	Bradley	**1MEW3**

Series	Floor Material	Threshold Style	Base Size	Base Height	Brand	Item No.
Shower Bases						
Monterey	Terrazzo	Single	36 in x 32 in	4 in	Fiat Products	**6NWU8**
Monterey	Terrazzo	Single	36 in x 36 in	4 in	Fiat Products	**6NWU7**

Hookless®
Patent 5,186,232

Hookless Shower Curtains

Innovative Flex-On rings allow shower curtain installation or removal in less than 1 min. Polyester material is water-repellent with ultrasonic bottom hem. PEVA material is an alternative to traditional vinyl and manufactured without chlorine. RePET material is made from recycled drinking water bottles.

46Y262

Color	Material	W	L	Item No.
Beige	Polyester	71 in	74 in	**1ATT5**
	Polyester with Vinyl Bubble Look Window	71 in	77 in	**1ATT6**
White	RePET	71 in	77 in	**46Y258**
	PEVA	71 in	74 in	**46Y259**
	Polyester	42 in	74 in	**46Y262**
	Vinyl	42 in	74 in	**46Y263**

2MWG3

Shower Curtains

- 72" L
- Include aluminum grommets

All sides are hemmed. White vinyl and nylon vinyl-laminated are antibacterial.

Color	Material	36 in Wide Item No.	42 in Wide Item No.	72 in Wide Item No.	108 in Wide Item No.
Translucent	Vinyl	**4EEX5**	**4EEX6**	**4EEX7**	**4EEX8**
White	Cotton Duck	**4EEY7**	**4EEY8**	**4EEY9**	—
	Nylon	**4EEY4**	**4EEY5**	**4EEY6**	—
	Nylon Vinyl	**4EEZ5**	**2MWG3**	**2MWG4**	**4EEZ6**
	Polyurethane Coated Polyester	**4EEZ1**	**4EEZ2**	**4EEZ3**	**4EEZ4**
	Vinyl	**4EEX9**	**4EEY1**	**4EEY2**	**4EEY3**

2VAL9

1ECL1

4EEW7

Shower Rods and Hooks

- Include mounting hardware, except 23MF96 and 23MF97.

Rod or Track Material	Finish*	Rod Dia.	Rod or Track Length	Brand	Item No.
Shower Rods					
304 Stainless Steel, Brass	CP	1 in	36 in	—	**4EEW2**
	CP	1 in	42 in	—	**4EEW3**
Stainless Steel	CP	1 in	60 in	—	**2VAL9**
	CP	1 in	72 in	—	**2VAN1**
Aluminum	B	1 in	60 in	Taymor	**23MF96**
	B	1 in	72 in	Taymor	**23MF97**
	Polished	1 in	60 in	—	**447M78**
	Polished	1 in	72 in	—	**447M79**

Item	Finish*	W	Brand	Item No.	Pkg. Qty.
Shower Curtain Hooks					
Shower Curtain Hooks	SS	1 ½ in	—	**1ECL1**	13
Shower Curtain Hooks w/Roller Balls	CP	1 ¾ in	—	**4EEW6**	13
Shower Curtain Hooks w/Wheels	AP	1 ¾ in	—	**4EEW7**	13
Rod Flanges					
Rod Flanges	CP	2 5⁄32 in	—	**4EEW8**	2
Adjustable Rod Flanges	PC	2 ¼ in	Taymor	**23MF98**	1

** AP=anodized plated, B=bright aluminum, BSS=bright stainless steel, CP=chrome plated, PC=polished chrome, SS=stainless steel.*

1GYB2

Shower Seats

Benches and Seats—Backrests and armrests are both reversible for right or left side. Chrome-plated aluminum frame with white polyethylene bench and backrest.

Wall Mountable Benches and Seats—Hinged seat folds up and out of the way when not in use.

24VT80

Description	Frame	L	W	H	Weight Cap.	Brand	Item No.
Benches and Seats							
ADA Portable Tub Bench, White Phenolic	Stainless Steel	26 ½ in	15 in	15 ½ to 17 ½ in	250 lb	WingIt	**15E829**
Bench, Aluminum, Plastic, Textured, White	Aluminum, Plastic	19 in	39 in	23 in	400 lb	Dmi	**52JT47**
Wall Mountable Benches and Seats, White Phenolic							
ADA L-Shape Reversible Shower Seat	Stainless Steel	26 in	22 ½ in	17 to 19 in	800 lb	WingIt	**15E825**
ADA L-Shape Reversible Shower Seat	Stainless Steel	28 in	22 ½ in	15 ½ to 17 ½ in	800 lb	WingIt	**24VT82**
ADA L-Shape Reversible Shower Seat	Stainless Steel	32 in	22 ½ in	17 to 19 in	800 lb	WingIt	**15E826**
ADA Rectangular Shower Seat	Stainless Steel	24 in	15 in	17 to 19 in	800 lb	WingIt	**15E827**
ADA Rectangular Shower Tub Seat, End Mount, Fold Down	Stainless Steel	29 in	15 in	2 ½ in	250 lb	WingIt	**15E828**
ADA Wall Mounted Shower Seat, Hinged, Reversible	Satin Finish Stainless Steel	—	34 ½ in	—	250 lb	Bradley	**1GYB2**
ADA Tub Seat, Rectangular Rear Mount with Skis	Stainless Steel	29 in	18 ½ in	4 ½ in	250 lb	WingIt	**24VT81**
ADA Tub Seat, Rectangular Rear Mount	Stainless Steel	29 in	18 ½ in	2 ½ in	250 lb	WingIt	**24VT80**
Tub and Shower Seat							
Aluminum, Plastic, Textured, White	Aluminum, Plastic	21 in	21 in	23 in	500 lb	HealthSmart	**52JT54**
Retractable Clothesline							
110" Nylon Cord	—	—	—	—	—	—	**1ECP1**

Kissler HARVEY SINCE 1944

Faucet Repair Parts and Accessories

5PZF2

Description	Brand	Item No.
Cartridges		
Cold Water Cartridge, Ceramic, Brass, 2 in H, fits Price Pfister/Pfister	Kissler	45L044
Hot Water Cartridge, Ceramic, Brass, 2 in H, fits Price Pfister/Pfister	Kissler	45L045
Cartridge, Plastic w/Seat Washers, fits American Standard	Kissler	45K999
Handles and Handle Kits		
Handle, Cast Metal, w/Index Buttons and Screws, 1⅝ in H, fits American Standard	Kissler	45L006
Handle, Cast Metal w/Set Screw, fits Delta	Kissler	45L013
Handle, Cast Metal, w/Set Screw, fits Moen	Kissler	45L042
Miscellaneous Repair Parts		
Faucet and Valve Grease	Harvey	2WY65
Assorted Faucet O-Ring Kit, Nitrile Rubber, 200-Pc.	Kissler	3FLY6
Assorted Faucet Washer Kit, Flat Rubber, 200-Pc.	Kissler	3FLY8
Assorted Faucet Washer Kit, Beveled Rubber, 160-Pc.	Kissler	4EEU7
Assorted Bibb Screw Kit, Brass, 180-Pc.	Kissler	4EEV1
Universal Stopper and Splashguard Kit	Kissler	4EEV3
Faucet Gasket Kit	Harvey	5PA61
Grid Drain, 1¼ in, Chrome	—	6PB68
Cartridge for Symmons Faucets, Replaces TA-10	—	5PZF2
Stems		
Hot Water Stem, w/Aquaseal Washer, Low-Lead Brass, fits American Standard	Kissler	45L009
Faucet Stem, Plastic, Single Lever, fits Gerber	Kissler	45L030

6REK9 4KUE5 2ZML8

POWERS™

Powers Tub and Shower Repair Parts

Description	Mfr. Model	Item No.
½ in IPS Type A Straight Check Stop	141-176	4KTZ8
Repair Kit	141-000	4KTZ7
Hot/Cold Cartridge	220-060	26W689
Sleeve, 2 7/16 in L	220-054	26W715
Handle, Zinc	220-050	26W698
Repair Kit to Replace Check Valve	230-132	4KUA9
E-Type Angle Stops w/Strainer - Rough Bronze	230-046	4KUA4
Balance Chamber Extractor	401-202	26W706
Stem and Plate Repair Kit	401-176	4KUD4
Balancing Cartridge Kit	401-175	2ZMN1
Handle	410-448	26W696
Dial Assembly Repair Kit	410-445	26W697
Bonnet Repair Kit	410-396	26W711
Stem and Plate Replacement Kit	410-378	4KUD7
Cartridge Kit for HydroGuard Series 400, Models 1-3	410-183	2ZML9
Valve Seal Replacement Kit 400/410 Series Pressure Balancing Valves	410-182	6REK8
Hot/Cold Cartridge	420-616	26W713
Handle	420-495	6REK9
Plastic Knob Kit	420-481	4KUF7
Cartridge Seal Kit	420-456	4KUF6
Bonnet Assembly	420-454	4KUF5
Wax Element, Standard	420-453	4KUF2
Cartridge Assembly	420-452	4KUF1
Upgrade Kit, High Capacity Model 9	420-451C	4KUE7
Full Upgrade Kit, High Temp., Mod 1 to 10	420-451H	4KUE8
Full Upgrade Kit, Low Temp., Mod 1 to 11	420-451L	4KUE9
Handle	420-336	26W690
Dial Assembly Repair Kit	420-335	26W693
Faucet Temperature Indicator Decal, Mylar	420-308	26W695
420 Lever Handle Kit	420-243	4KUE5
Dial Kit for HydroGuard Type H	420-182	4KUE3
Hot/Cold Cartridge, 2 7/16 in L	420-139	26W714
Wax Element Repair Kit	420-024	26W702
Valve Cartridge Assembly	420 451	2ZML8
Retrofit Kit for 427 Standard Temp.	427-200	4KUG3
Bonnet Assembly	427-019	4KUG2
Motor Repair Kit	480-270	26W712
Overhaul Kit	800-163	4KUG6
Lever Handle Repair Kit P900 Bathtub and Shower Faucet Valve	800-036	6REL1
Balance Chamber	900-259	4KUH6
Balance Chamber Repair Kit	900-240	26W699
Check Stop Repair Kit Model 3	900-050	4KUH5
Check Stop Repair Kit	900-049	4KUH4
Handle	900-036	26W692
Series 900 Internals Kit	900-032	4KUH3
Balance Chamber, Model 2	900-031	4KUH1
Balance Chamber, Model 1	900-031A	4KUH2
Soft Components Repair Kit, Model 3	900-028	4KUG8
Internal Repair Kit	800310C	26W707
HydroGuard High-Temperature Shutoff Device	HT115	2ZMN7

26Y291 5UTW1 2HXY2 2FPK8

CHICAGO FAUCETS a Geberit company

Chicago Faucets Repair Parts

Description	Mfr. Model	Item No.
Aerators and Outlets		
Pressure Balancing Flow Control	1020-034KJKABNF	6XAH0
¾ in Hose Thread Male Outlet w/ 13/16 in-24 Female Inlet	E2JKRCF	3JAR1
13/16 in-24 Female Pressure Compensating Outlet, 2.2 gpm	E3JKABCP	2FPL2
⅜ in-18 Male Pressure Compensating Aerator w/Adapter, 2.2 gpm	E3-2JKABCP	3JAR3
13/16 in-24 Female Pressure Compensating Outlet, 2.2 gpm, Vandal Resistant	E3VPJKABCP	2HXY7
⅜ in-18 Male Rose Outlet, 1.5 gpm	E4JKABCP	26Y256
Laboratory Serrated End Outlet, ⅜ in-18 Male	E7JKCP	3JAR9
13/16 in-27 Male Pressure Compensating Outlet, 2.2 gpm	E12JKABCP	2HXY5
13/16 in-27 Male Pressure Compensating Outlet, 2.2 gpm, Vandal Resistant	E12VPJKABCP	2HXY8
Inline Vacuum Breaker Outlet, ⅜ in NPT Female Outlet; ⅜ in NPT Male Inlet	E22JKCP	3JAL9
13/16 in-27 Male Pressure Compensating Laminar Flow, 2.2 gpm	E32JKABCP	3JAR2
13/16 in-27 Male Pressure Compensating Aerator Outlet, 1.5 gpm	E34JKABCP	3TEE1
13/16 in-27 Male Pressure Compensating Aerator Outlet, 1.5 gpm, Vandal Resistant	E34VPJKABCP	3TEE3
13/16 in-24 Female Pressure Compensating Aerator Outlet, 1.5 gpm	E35JKABCP	3TED6
13/16 in-24 Female Pressure Compensating Aerator Outlet, 1.5 gpm, Vandal Resistant	E35VPJKABCP	3TED8
13/16 in-24 Female Pressure Compensating Laminar Flow, 1.5 gpm	E36JKABCP	3JAR4
13/16 in-24 Female Pressure Compensating Laminar Flow, 1.5 gpm, Vandal Resistant	E36VPJKABCP	3JAR5
13/16 in-27 Male Pressure Compensating Laminar Flow, 1.5 gpm, Vandal Resistant	E37VPJKABCP	3JAR7
13/16 in-27 Male Pressure Compensating Outlet, 0.5 gpm	E2605JKABCP	3JAM2
13/16 in-24 Female Pressure Compensating Outlet w/Adapter, 0.5 gpm	E2605-5JKABCP	3JAM1
13/16 in-27 Male Pressure Compensating Outlet, 0.5 gpm, Vandal Resistant	E2805JKABCP	3JAM5
13/16 in-24 Female Pressure Compensating Outlet w/ Adapter, 0.5 gpm, Vandal Resistant	E2805-5JKABCP	3JAM4
Female Outlet Spout Adapter, ⅜ in-18 Female Outlet; 13/16 in-24 Female Inlet	K1JKABCP	26Y287
Male Inlet Spout Adapter, 13/16 in-24 Male Outlet; ⅜ in-18 Male Inlet	K2JKABRCF	26Y228
Male Outlet Spout Adapter, 55/64 in-27 Male Outlet; 13/16 in-24 Female Inlet	K4JKABCP	26Y288
Cartridges		
Control-A-Flow Cartridge, LH, Short Stem	1-100-245JKABNF	26Y264
Ceramic ¼ Turn, LH, Short Stem	1-100XKJKABNF	5UTV8
Quaturn, LH, Short Stem	1-100XTJKABNF	5UTV6
Control-A-Flow Cartridge, RH, Short Stem	1-099-245JKABNF	26Y291
Ceramic ¼ Turn, RH, Short Stem	1-099XKJKABNF	5UTV7
Quaturn, RH, Short Stem	1-099XTJKABNF	5UTV5
Slow-Compression, LH, Short Stem	217-XTLHJKABNF	5UTV9
Slow-Compression, RH, Short Stem	217-XTRHJKABNF	5UTW0
Control-A-Flow Cartridge, RH, Long Stem	274-X245RJKABNF	26Y263
Slow-Compression, LH, Long Stem	274-XTLHJKABNF	26Y216
Slow-Compression, RH, Long Stem	274-XTRHJKABNF	26Y296
Fast Cycle Time Closure Push Button, Push Index	333-XPSHJKABNF	26Y203
Slow Closing Push Button, Cold	333-XSLOCJKABNF	26Y253
Slow Closing Push Button, Push Index	333-XSLOPJKABNF	26Y209
Slow Closing Tip-Tap Push Button	335-XJKABNF	26Y208
Control-A-Flow Cartridge, LH, Long Stem	377-X245LJKABNF	26Y223
Control-A-Flow Cartridge, RH, Long Stem	377-X245RJKABNF	26Y236
Quaturn, LH, Long Stem	377-XTLHJKABNF	5UTW1
Quaturn, RH, Long Stem	377-XTRHJKABNF	5UTW2
Slow Closing Tip-Tap Push Button (Concealed Bodies)	409-XJKABNF	26Y257
Pedal Valve, Wall Mount	625-XJKABNF	26Y194
Pedal Valve, Floor Mount	628-XJKABNF	26Y248
MVP Metering Actuator Assembly	665-190KJKABNF	26Y193
MVP Actuator Assembly and Metering Valve Cartridge	667-080KJKABNF	2HXY2
MVP Metering with Inline Filter	671-XJKABNF	2EU68
Cam Type Knee Valve	745-XJKABNF	26Y218
Klo-Self, Short Stem	826-XJKABNF	26Y289
Cartridge Repair Kit	849-DAB	2FPK6
Quaturn Repair Kit	1277-DAB	2FPL5
Metermix Actuator and Unit, for Metering Faucets	3300-103KJKABNF	41N766
Chicago Faucets Master Repair Kits (Supplied in Compartmentalized Steel Boxes)		
Naiad 1 Minute Repair Kit, Includes 192 Components for Maintaining Faucets with Naiad Push-Button Cartridges	820-ABNF	26Y298
Quaturn 1 Minute Repair Kit, Includes 4 each of 5UTV5 & 5UTV6, 1 each of 5UTW2 & 5UTW1, and 365 Components for Maintaining Quaturn and Slow Compression Cartridges	1273-ABNF	26Y254
Quaturn Junior Repair Kit, Includes 1 each 5UTV5 & 5UTV6 and 152 Components for Maintaining Quaturn or Slow Compression Cartridges	1276-ABNF	26Y205
Drains		
1¼ in O.D. Grid Strainer Waste	327-XCP	5E994
1¼ in O.D. Pop-Up Waste	1222-KJKCP	3FZT5
Handles		
4 in Blade w/Cold Index	317-COLDJKCP	3JAA8
4 in Blade w/Hot Index	317-HOTJKCP	3JAA9
4 in Blade, Pair	317-PRJKCP	2FPL1
6 in Blade, Pair	319-PRJKCP	3JAC3
2⅜ in Lever w/Cold Index	369-COLDJKCP	3JAD4
2⅜ in Lever w/Hot Index	369-HOTJKCP	3JAD5
2⅜ in Lever, Pair	369-PRJKCP	2FPK7
3 in, 4-Arm Cross w/Cold Index	633-COLDJKCP	3JAF9
3 in, 4-Arm Cross, Pair	633-PRJKCP	3JAH3
MVP Metering, Single Handle	665-PSHJKCP	2FPL8
2½ in 3-Wing, Pair	950-PRJKCP	2FPK9
2 in Canopy, Pair	1000-PRJKCP	2FPK8

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Chicago Faucets Repair Parts

CHICAGO FAUCETS a Geberit company

Description	Mfr. Model	Item No.
Miscellaneous Parts		
Stem Packing for XT Style Cartridges	1-519JKABNF	**3FZT9**
Cartridge O-Ring for XT Style Cartridges	1-219JKABNF	**3FZT4**
Cartridge Cap Nut for Exposed Caps	1-214JKCP	**3FZT3**
Packing Assembly for X Style Cartridges	1-119JKABNF	**4KTG5**
Spout Ring	1-104KJKABNF	**6HKX2**
Rubber Seat Washer	1-021JKABNF	**4KTG4**
Swing Spout Repair Kit	1-004KJKABNF	**2HXY9**
Cartridge O-Ring	2-043JKABNF	**3FZU4**
Valve Body Locknut	49-004JKRBF	**3JAE5**
Laminar Insert	50-043KJKABNF	**6HKX1**
Rigid/Swing Spout O-Ring and Washer	50-035KJKABNF	**3JAE6**
44 in Prerinse Hose and Handle Assembly	83-44ABNF	**26Y261**
Bell/Widespread Escutcheon	250-180JKCP	**5UTT0**
Cartridge Cap Nut Concealed Installation	274-004JKRBF	**3FZU6**
Slow Dashpot Assembly	333-073KJKABNF	**3JAC6**
Handle	336-403KJKCP	**5UTT3**
Celcon Washer	340-004JKABNF	**3JAD3**
Escutcheon Nut	422-113JKCP	**3JAE2**
Cartridge Sleeve, Chrome	433-042JKABRBF	**26Y280**
Stilt Washer	555-313JKNF	**3JAF1**
Pedal Bracket	625-060JKRCF	**3JAF4**
Handle Index Button, Plain	633-223JKNF	**3JAF8**
Handle, Metering	665-RKPABCP	**6XAF4**
MVP Bubbler Unit	672-XJKABNF	**3JAH7**
Male Thread Shank Assembly, ½ in NPT x ½ in NPSM x 3⅛ inL	748-002KJKABRBF	**26Y283**
Spray Assembly, ¾ in - 14 UNS Male Inlet	777-021KJKCP	**3JAJ4**
Vacuum Breaker Assembly Kit	892-402KJKABNF	**6HKW8**
Vacuum Breaker Repair Kit	892-302KJKABNF	**6HKW7**
Vacuum Breaker Cover and Screw Kit	892-254KJKCP	**6HKX3**
Vacuum Breaker, ½ in (F)NPT	892-ABCP	**2FPK5**
Wall Mounted Atmospheric Vacuum Breaker, ½ in (F)NPT	892-GABCP	**26Y252**
Pipe Support	902-MJKCP	**3JAT2**
Male Thread Shank Assembly, ½ in x 3 inL	932-001KJKABRBF	**26Y268**
Diverter Valve	1103-006JKABNF	**3FZT1**
Basin Cock Washer	1797-114JKNF	**3FZU2**
Retrofit Kit for 2200 Marathon	2200-200KJKABCP	**4KTG7**
Offset Arm Check Valve with ½ in Inlet	GCJKABCP	**26Y244**
Offset Inlet Supply Arm, ½ in Inlet	HJKABCP	**26Y259**
Offset Inlet Supply Arm with Integral Stop and Check Valve, ½ in Inlet	RCJKABCP	**26Y294**
Offset Inlet Supply Arm with Integral Stop, ½ in Inlet	RJKABCP	**26Y281**
Spouts, Chrome Finish		
6¼ in Rigid/Swing Double Bend Spout	DB6AJKABCP	**26Y237**
13 in Double Jointed Swing Spout, 13/16 in-24 UNS Female 2.2 gpm Aerator	DJ13JKABCP	**26Y243**
17¾ in Double Jointed Swing Spout, 13/16 in-24 UNS Female 2.2 gpm Aerator	DJ18JKABCP	**26Y199**
3½ in Rigid/Swing Gooseneck w/ 13/16 in-24 Female 2.2 gpm Aerator	GN1AE3JKABCP	**26Y217**
3½ in Rigid/Swing Gooseneck	GN1AJKABCP	**26Y220**
5¼ in Rigid/Swing Gooseneck w/ 13/16 in-24 Female 2.2 gpm Aerator	GN2AE3JKABCP	**26Y212**
5¼ in Rigid/Swing Gooseneck	GN2AH8JKABCP	**26Y277**
5¼ in Rigid/Swing Gooseneck	GN2AJKABCP	**26Y197**
5¼ in Flow Control Rigid/Swing Gooseneck Spout	GN2BFCJKABCP	**6XAG7**
5¼ in Rigid/Swing Gooseneck	GN2BJKABCP	**26Y293**
5¾ in Rigid/Swing Gooseneck w/Laminar Control, 1.5 gpm	GN2FCJKABCP	**26Y215**
8 in Rigid/Swing Gooseneck w/ 13/16 in-24 Female 2.2 gpm Aerator	GN8AE3JKABCP	**26Y219**
8 in Flow Control Rigid/Swing Gooseneck Spout	GN8AFCJKABCP	**6XAG8**
8 in Rigid/Swing Gooseneck	GN8AJKABCP	**26Y210**
8 in Rigid/Swing Atmospheric Vacuum Breaker Gooseneck Spout	GN8BVBJKABCP	**26Y247**
10 in Swing Only Gooseneck	GN10ASWGJKABCP	**26Y240**
8 in Spout, w/ 13/16 in-24 Female 2.2 gpm Aerator	HA8AE3JKABCP	**26Y251**
5¼ in Atmospheric Vacuum Breaker Cast Swing Spout w/ ¾ in Hose Outlet	L5VBJKCP	**3JAV7**
8 in Cast Swing Spout w/ 13/16 in-24 Female 2.2 gpm Aerator	L8JKABCP	**3JAV8**
9½ inL Type Swing Spout w/Quixtop Screen Outlet	L9E1JKABCP	**26Y273**
9½ inL Type Swing Spout w/ 13/16 in-24 Female 2.2 gpm Aerator	L9JKABCP	**3JAW1**
14 in Swing Spout w/ 13/16 in-24 Female 2.2 gpm Aerator	L15JKABCP	**3JAV6**
6 in Cast Swing Spout w/ 13/16 in-24 Female 2.2 gpm Aerator	S6JKABCP	**3JAW4**

American Standard

American Standard Faucet and Shower Repair Parts

Description	Mfr. Model	Item No.
Aerators		
Regular Flow, 2.0 gpm, 15/16 in Male	066070-0020A	**2CYV1**
Pressure-Compensating, 0.5 gpm, Vandal-Resistant, 55/64 in Female	066074-0020A	**2ZHR4**
Regular Flow, 2.2 gpm, 55/64 in Female	066111-0020A	**2CYV9**
Pressure-Compensating, 0.5 gpm, Vandal-Resistant, 15/16 in Male	066508-0020A	**2ZHR3**
Regular Flow, 2.2 gpm, Vandal-Resistant, 15/16 in Male	078481-0020A	**5UTL0**
Cartridges		
Thermostatic Mixing Valve for Selectronic and Metering Faucets	605XTMV1070	**29VL77**
Valve for Prison Lavatory	004466-0070A	**45A206**
Valve Cartridge for Metering Faucet	012690-0020A	**4THJ3**
Ceramic Disk Cartridge for Seva 4THP5 and 4THP6	023529-0070A	**2CYX3**
Ceramic Disk Cartridge for Heritage	028610-0070A	**2CYX4**
Aquaseal Cartridge, Right Hand	072991-0170A	**5UTK2**
Aquaseal Cartridge, Left Hand	072992-0170A	**5UTK3**
Ceramic Disk Cartridge for Monterrey 5500/6500/7500 Lavatory	951764-0070A	**2CYV2**
Ceramic Disk Cartridge for Colony Soft 4THP4, 4THT4, and 4THH3	A951470-0070A	**2CYW7**
Drains and Repair Parts		
Stopper Assembly	066116-0020A	**5UTK0**
Pivot Rod Kit	066118-0070A	**5UTK1**
Sink Drain	2411015.002	**5UTK4**
Speed Connect Cam Assembly	M962430-0070A	**2CYW2**
Escutcheon Plate		
4 in Cast Brass Escutcheon Plate, Chrome	605P400.002	**1FYB6**
8 in Cast Brass Escutcheon Plate, Chrome	605P800.002	**1YHY5**
Handles and Repair Parts		
Wrist Blade Handle for Monterrey Lavatory	051217-0020A	**2CYU9**
Handle Kit for Seva Lavatory	060327-0020A	**2CYW9**
Long Handle Adapter for Town Square	M918025-0070A	**6NWR3**
Metering Handle Kit	M962390-0020A	**2CYV3**
Kitchen Faucet Repair Parts		
Handspray and Hose for 4THT3	M953667-0020A	**2ZHK7**
Miscellaneous Parts		
Mounting Nuts	065800-0070A	**5UTL4**
Valve Rebuild Kit	066298-0070A	**4THK2**
Repair Parts for Shower Valves, Trim Kits, and Handheld Shower Systems		
Tub Diverter Spout Repair Kit	012653-0020A	**45A212**
Diverter Tub Spout	022635-0020A	**6NWG2**
Pressure Balance Cartridge for Reliant	051091-0070A	**6NWN8**
Screw Stop Assembly for 2TGW5 and 2TGW7	051122-0070A	**2ZHN3**
Shower Cartridge, Ultra-Mix	051337-0070A	**6NWN9**
Shower Cartridge	066269-0070A	**6NWP4**
Pressure Balance Valve, Ultra-Mix	077171-0070A	**6NWP7**
Shower Hose	8888035.002	**5UTN0**
Cartridge for R110SS Rough Valve Body	A954440-0070A	**2ZHN2**
Pressure Balancing Unit for 2TGW5 and 2TGW7	M952100-0070A	**2ZHN4**
Handheld Showers	M962507-0020A	**6NWN1**
Spout		
Gooseneck Spout, Chrome Finish	012124-0020A	**45A216**

MOEN Kissler

Faucet Repair Parts and Accessories

Description	Moen Genuine Part Mfr. Model	Moen Genuine Part Item No.	Kissler Non-OEM Mfr. Model	Kissler Non-OEM Item No.
Cartridges				
Cartridge Retainer Removal Tool for 2 Handle Cartridges	14272	**6WA67**	—	—
Cartridge Puller for 1200, 1222, & 1225 Cartridges	—	—	08-0423	**2FGT4**
Ceramic/Plastic Disc Cartridge for 1 Handle Faucets	1255	**4XKZ7**	—	—
Ceramic/Brass Disc Cartridge for 1 Handle Faucets	121549	**4NEH6**	—	—
Ceramic Disc Cartridge for 2 Handle Faucets, Hot	52000	**4NEF5**	—	—
Ceramic Disc Cartridge for 2 Handle Faucets, Cold	52001	**4NEF6**	—	—
For 1 Handle Faucets	1225	**2P318**	46-0014	**2FGR4**
For 2 Handle Roman Tub Faucets	1248	**1RYH4**	—	—
For 1 Handle Faucets, Brass, Shower	—	—	46-0012	**2FGR7**
For 1 Handle Posi-Temp Valves	—	—	46-1222	**2FGR6**
For 1 or 2 Handle Metering Faucets	—	—	46-0040	**2FGR5**
Aerators				
55/64 in-27 Female, 2.2 gpm	3924	**6WA66**	—	—
15/16 in-27 Male, 0.5 gpm, Vandal-Resistant	16350	**1RYJ1**	—	—
15/16 in-27 Male, 1.5 gpm	101010	**4NEH3**	—	—
15/16 in-27 Male, 2.2 gpm	3919	**6WA64**	—	—
Male Thread, 2.2 gpm	—	—	AB83-6010	**29FJ56**
Tub and Shower Handle Kits				
Single Knob Tub/Shower Handle Kit, Chateau	98039	**1WXL1**	46-6797	**2FGT2**
Single Knob Tub/Shower Handle Kit, Posi-Temp	100710	**1WXL4**	46-6884	**2FGR9**
Trim and Cover Plate				
Chrome Finish	96885	**4NEG9**	—	—

Description	Kissler Non-OEM Mfr. Model	Kissler Non-OEM Item No.
Tub Spouts		
Tub Diverter Spout, Die Cast Steel	82-0021	**39AP75**
Tub Diverter Spout, Brass	82-0012	**39AP81**

Description	Moen Genuine Part Mfr. Model	Moen Genuine Part Item No.
Handles		
Handle Adapter Kit for Single Handle Kitchen (Except Legend and Manor)	100429	**6WA57**
Handle Adapters	94746	**4NEG7**
Handle for Shower, Chrome	100657	**4NEE9**
Lever Handle Assembly	94740	**4NEG6**
Lever Handle Kit	14732	**4NEF4**
Single Handle Retainer Clip for Posi-Temp Tub/Shower	96914	**1RYJ4**
Single Lever Handle Mechanism Kit for Lavatory Faucet, Villeta	102568	**1WXL6**
Wrist Blade Handle, Cold	14838	**1RYH9**
Wrist Blade Handle, Hot	14834	**1RYH8**
Miscellaneous Parts and Accessories		
1¼ in Chrome Grid Strainer Waste	14750	**4ZD99**
Balancing Spool for Moentrol 1H Tub/Shower	1423	**6WA65**
Diverter Tub Spout, ½ in Slip Fit, 5½ in Length	3931	**6WA62**
Drain Plug	12314	**1RYH7**
Electronic Circuit Board	104434	**1WXL8**
Faucet Service Kit, 1 Handle Lever	101310	**4NEH4**
Mixing Valve	104424	**4NEH5**
Stop Tube, Posi-Temp 1 Handle	96987	**1RYJ6**
Tub and Shower Stop Tube for Legend and Chateau	10089	**1RYH6**

Description	Mfr. Model	Item No.
10⅜" Gooseneck Swivel Spout	133X	**10C482**
3½" Rotary Waste Valve Strainer	010386-45	**4KRC1**
10" Swing Nozzle	061X	**4XKP6**
12" Swing Nozzle	062X	**4XKL3**
14" Swing Nozzle	063X	**10C477**
16" Swing Nozzle	064X	**4XKL4**
18" Double Joint Swing Nozzle	068X	**4XKL5**
18" Swing Nozzle	065X	**10C478**
3" Gooseneck Swing Nozzle	132X	**4XKL6**
3" Rotary Waste Valve Strainer	010385-45	**4KRA9**
4-Arm Handle Kit	B-19K	**4KRD3**
6" Swing Nozzle	059X	**4XKP5**
8" Swing Nozzle	060X	**4XKL2**
Bell Escutcheon	001257-40NS	**10C471**
Bonnet	002856-40	**4KRA2**
Bottom Gasket, Pkg. of 25	001022-45	**4XKN9**
Cartridge	013080-45	**4KRC5**
Cartridge, Hot	238AH	**4XKN1**
Cartridge Assembly, Cold	006477-40	**10C474**
Cartridge Assembly, Hot	006478-40	**10C475**
Cartridge Cold	238AC	**4XKL9**
Cartridge Spindle, Cold	67L	**10C469**
Ceramic Cartridge & Washer, Cold	011277-45	**10C459**
Ceramic Cartridge & Washer, Hot	011276-45	**10C458**
Cold Cartridge	66L	**4XKN3**
Cold Index Button	001660-45	**4KPZ7**
Cold Spindle Assembly w/Spring	002711-40	**4KPZ9**
Coupling Nut, Pkg. of 25	001019-45	**4XKN8**
Eterna Cartridge Replacement Kit (Incl. Right and Left Hand Removable Insert Assemblies)	B-21K	**5WMX3**
Eterna Cartridge Spindle Kit (Incl. Right and Left Spindle Inserts, Screws, Washers)	B-11K	**5WMX2**
Eterna Cerama Cold Stem Assembly	011279-25	**10C461**
Eterna Cerama Hot Stem Assembly	011278-25	**10C460**
Eterna Spindle Assembly, Cold	006009-40	**10C472**
Eterna Spindle Assembly, Cold	2713-40	**4KRC7**
Eterna Spindle Assembly, Hot	006010-40	**10C473**
Eterna Spindle Assembly, Hot	2714-40	**4KRC8**
Eterna Spindle Assembly, Left Hand Cold	005959-40	**4KRA4**
Eterna Spindle Parts Kit	B-6K	**5NRF6**
Faucet Cartridge, Hot	002983-40	**10C453**
Garden Hose Outlet	B-GFE	**2MCU8**
Glass Filler Arm, Lexan	001145-45	**10C451**
Glass Filler Repair Kit, Lexan	015550-45	**10C462**
Handle Assembly, Cold	006089-45	**10C454**
Hot Cartridge	64L	**4XKN2**
Hot Index Button	001661-45	**4KPZ8**
Hot Spindle Assembly w/Spring	002712-40	**4KRA1**
Lever Handle, Cold	001636-45	**4XKP2**
Lever Handle, Hot	001637-45	**4KPZ5**
Lever Handle, Plain	001638-45	**4KPZ6**
Lever Handle Assembly	010394-45	**4KRC3**
Lever Handle Kit (Incl. Right and Left Handle, Index Buttons, Screws)	B-9K	**1DYE6**
Master Faucets Repair Kit	B-7K	**4KRD5**
Metering Barrel Assembly	014152-40	**4KRC6**
Metering Valve Cartridge	238A	**4XKL7**

Swing Nozzle

Master Faucets Repair Kit

T&S Faucet Repair Parts

Description	Mfr. Model	Item No.
Non-Splash Aerator, 55/64"-27 FNPT, 2.2 gpm	B-0199-01	**4KRD7**
Non-Splash Aerator with Flow Control, 55/64"-27 FNPT, 1.2 gpm	B-0199-01F12	**4KRD8**
Non-Splash Aerator with Vandal Resistant Key, 55/64"-27 FNPT, 2.2 gpm	B-0199-06	**4KRD9**
Nozzle O-Ring, Pkg. of 25	001074-45	**4XKP1**
Parts Kit Eterna Inserts (Incl. Right and Left Hand Spindle Insert)	B-13K	**5NRF8**
Pedal Valve Bonnet Assembly	005312-40	**4XKP3**
Push Button Metering Cartridge	238AB	**4XKL8**
Quarter Turn Spindle Assembly	007947-40	**10C457**
Repair Kit for Glass Fillers	B-1255	**4XKP7**
Rigid Gooseneck Spout	B-0520	**10C467**
Spindle Assembly	006482-40NS	**10C456**
Spindle Assembly	005960-40	**4KRA5**
Spindle Assembly, Left Hand Hot	009754-25	**4KRA8**
Spindle Assembly, Right Hand Cold	009753-25	**4KRA7**
Spindle Insert, Left Hand	000812-25	**4XKN7**
Spindle Insert, Right Hand	000811-25	**4XKN6**
Spindle Parts Kit for Workboard Faucets (Incl. Right and Left Hand Spindle, Screws, Seal Washers)	B-12K	**5NRF7**
Spray Valve Repair Kit	B-10K	**5WMX1**
Spring Checks Parts Kit (Incl. Right and Left Hand Eterna Spindle w/Spring Check)	B-23K	**5NRG0**
Supply Connector Kit	B0230-K	**4KRD1**
Twist Handle Assembly	010393-45	**4KRC2**
Vacuum Breaker	B-0968	**10C463**
Vacuum Breaker	B-0969	**10C465**
Vacuum Breaker Repair Kit	B0968RK01	**10C464**
Vacuum Breaker Repair Kit	B-0969RK01	**4KRD2**
Valve Handle	001120-45	**4KPZ4**
Waste Valve Plunger	010388-45	**10C476**
Waste Valve Repair Kit	B39K	**4KRD4**
Workboard Parts Kit	B-20K	**5NRF9**
Wrist Blade Replacement Handle - Blank	B-WH4	**2MCU6**
Wrist Blade Replacement Handle - Cold	B-WH4C	**2MCU7**
Wrist Blade Replacement Handle - Hot	B-WH4-H	**4KRD6**

Description	Delta Genuine Part Mfr. Model	Item No.	Kissler Non-OEM Mfr. Model	Item No.
Cartridges				
Cartridge Assembly	RP46074	**4NLN3**	—	—
Faucet Ball Assembly	RP212	**1NNY4**	PB212S	**2FGU2**
Faucet Ball Assembly	—	—	PB70S	**2FGU3**
For Lavatory	—	—	46-6399	**2FGT9**
For Lavatory, Brass	RP25513	**1NNY8**	KRP25513	**2FGT8**
For Lavatory or Kitchen, Resin	RP1740	**1NNX9**	PB1745	**2FGT7**
For Single Handle 1500/1700 Tub/Shower	RP32104	**10N719**	—	—
For Single Handle Faucets	RP50587	**6NRG0**	—	—
For Single Handle Tub/Shower	RP19804	**1NNY3**	46-9804	**2FGU1**
Thermostatic Cartridge	RP47201	**4NLN5**	—	—
Handles, Include Set Screw				
Acrylic Handle (500 Series Faucets)	RP2389	**10N722**	—	—
Acrylic Handle (600 Series Single Lever Tub/Shower)	RP17451	**10N734**	—	—
Acrylic Lavatory, Knob Handle Pair	RP23498	**1NNY5**	95-1718	**2FGU6**
Acrylic Lavatory Single Knob	RP17449	**1NNY2**	—	—
Kitchen Handle (100, 200, 300, 400 Series)	RP2393	**1NNY7**	—	—
Kitchen Single Handle (100 & 400 Series)	RP90	**1NNX5**	—	—
Lavatory and Shower Handle for 600 Series	RP17443	**1NNY1**	46-1132	**2FGU5**
Miscellaneous				
Acrylic Tub and Shower Single Knob	RP2392	**1NNY6**	46-9392	**2FGU7**
Adapter and Plumbers Hook Universal Valve	RP46463	**4NLN4**	—	—
Aerator, Male, 2.2 GPM, Vandal Resistant	RP246	**1NNZ5**	—	—
Aerator, Male 15/16-27", 2.2 GPM	RP330	**10N731**	—	—
Battery Module Assembly	060681A	**48RF22**	—	—
Diverter Tub Spout, Pull Down	RP17453	**10N732**	—	—
Diverter Tub Spout, Pull Up	RP5834	**10N729**	—	—
Faucet Adapters for DST Faucets	RP63263	**10N717**	—	—
Faucet Bonnet Nut	RP22734	**10N725**	—	—
Faucet Handle Buttons, Hot and Cold	RP19659	**10N737**	—	—
Faucet Handle Buttons for 1300/1400 Tub Faucets, Pkg. of 10	RP20542	**10N723**	—	—
Faucet Handle Buttons for Acrylic Lavatory Faucets, Cold, Pkg. of 10	RPB21915	**10N721**	—	—
Faucet Handle Buttons for Acrylic Lavatory Faucets, Hot, Pkg. of 10	RPB21912	**10N720**	—	—
Faucet Hose Quick Connect Clip	RP32522	**10N736**	—	—
Faucet Repair Kit	RP3614	**1NNZ1**	PB3614	**2FGU9**
Faucet Repair Kit	—	—	540-7270	**2FGU8**
Faucet Repair Kit—Seat and Seals	RP4993	**1NNX8**	PB4993	**2FGV2**
Faucet Seats, Pkg. of 24	RP1806MBS	**10N726**	—	—
Faucet Sink Spray Head & Hose Assembly	RP6011	**10N735**	—	—
Faucet Springs, Pkg. of 24	RP3427MBS	**10N727**	—	—
Nut	RP36203	**48RF14**	—	—
Transformer	060683A	**48RF12**	—	—
Trim and Cover Plate	RP30528	**48RF11**	—	—

Cartridge Assembly 4NLN3

Cartridge 1NNY3

Acrylic Single Knob 1NNY6

DELTA GENUINE PARTS Kissler

Faucet Repair Parts

Description	Delta Genuine Part Mfr. Model	Item No.
Miscellaneous		
Aerator Wrench/Spanner Key	RP6420	**48RF16**
Faucet Stem Extender for 2 or 3 Handle Tub/ Shower Faucets	RP18627	**10N724**
Faucet Stem for 6P959	RP24096	**10N718**
Filter	060909A	**48RF02**
Flange	060906A	**48RF09**
Gasket	RP6142	**48RF18**
Gasket	RP30522	**48RF21**
Hot/Cold Cartridge, Plastic Pkg. of 6	RP1740MBS	**10N728**
Laminar Outlet	061203A	**48RF20**
Lavatory Cap	RP50	**1NNX7**
Nut	RP6087	**48RF08**
Nut	RP6140	**48RF17**
O-Ring Repair Kit for 100,200,300,400 Series Single Handle Faucets	RP25	**10N714**
Pop-Up Drain Assembly	RP5651	**10N730**
Single Handle Repair Kit	RP63138	**1NNY9**
Solenoid Holder	060908A	**48RF15**
Spout O-Ring Repair Kit for 2 Handle non-DST Kitchen Faucets	RP2055	**10N713**
Spout O-Ring Set	RP22934	**1NNZ4**
Spout Retainer	RP21463	**1NNZ3**
Spray Diverter Assembly for 2 Handle Kitchen Faucets w/Spray	RP63135	**10N715**
Transformer	RP32508	**48RF19**
Transformer	RP32856	**48RF10**
Tub and Shower Cover Plate	RP29827	**1NNZ7**
Vessel Bowl Grid Strainer	RP6346	**48RF13**

Zurn Faucet Repair Parts

Mixing Valve 6RKG9

Control Box 5UNU2

Description	Mfr. Model	Item No.
Cartridges		
Short Stem Ceramic Cartridge, Cold	59517005	**4JPA3**
Short Stem Ceramic Cartridge, Hot	59517006	**4JPA4**
Long Stem Ceramic Cartridge, Cold	59517007	**4JPA5**
Long Stem Ceramic Cartridge, Hot	59517008	**4JPA6**
Spouts		
Spout Assembly, Rough Chrome Vacuum Breaker	G60555	**5UNT1**
Aerators for Sensor Faucets		
Aerator, 15/16-27 Male, 2.0 gpm	P6900-20A	**4UZN8**
Aerator Wrench	P6900-21	**6RKG0**
Miscellaneous Repair Parts		
4" Deck Plate	P6900-CP4	**4JPC2**
8" Deck Plate	P6900-CP8	**4JPC3**
Foot Pedal Valve Assembly	G66001	**5UNT5**
Handles, 4" Wristblade, 1 Pair	G60504	**5UNR9**
Handle Assembly, Metering	G60522	**5UNT0**
Handle Assembly, Metering, 1 Pair	G61830	**5UNT3**
Handle Mount Assembly	G60561	**4JPA7**
Mixing Valve	P6900-MV-XL	**6RKG9**
Repair Kit, Vacuum Breaker	JP1996-SF-VB-RK	**5UNT7**
Slow Close Metering Cartridge	G61754	**4JPC1**
For Sensor Faucets		
Control Box	P6900-B-L	**5UNU2**
Mixing Tee, Brass	P6900-MT-1-XL	**30PT30**
Mixing Valve	P6900-ADM-XL	**33KJ84**
Power Converter	P6900-ACA	**5UNU1**
Solenoid Rebuild Kit	P6900-SRK	**4UZP3**
Spout Assembly, Brass	P6920-XL-1	**30PT20**
Spout, Brass, Plastic, Copper	P6913-XL-1	**30PT19**
Spout Base, Brass, Plastic, Copper	P6915-XL-1	**30PT26**

Aerator 4NGV9

Cross Handle Repair Kit 3HER4

Faucet Module 3HEP8

Speakman Faucet Repair Parts

Vacuum Breaker Repair Kit 3HER7

Description	Mfr. Model	Item No.
0.5 gpm BOCA Outlet/Vandal Resistant Flow Control	RPG05-0733-PC	**4NGY2**
6" Gooseneck Assembly	RPG18-0213-CA	**4NGX6**
Aerators (SEF-1800's)	RPG05-1177	**4NGV9**
Cold Cartridge, Includes Bushing, Screws (4), Sleeve Extension, Valve	RPG05-0535-CA	**5NPV1**
Cross Handle Repair Kit	RPG04-0323-PC	**3HER4**
Easy Push Replacement Unit	G05-0441-RPR	**4NGX5**
Faucet Module, 6VDC, Includes Batteries	RPG66-0160	**3HEP8**
Faucet Solenoid Repair Kit	RPG76-0039	**3HEP7**
Medium Perfect Valve Red	RPG05-0534-CA	**32WT27**
Repair Kit, Includes (2) Spindle, O-ring, (2) Washer	RPG03-0259-RCP	**5NPT7**
Repair Kit, Includes Handle Insert, Set Screw	RPG05-0523	**5NPT9**
Repair Kit, Includes Replacment Lever Handle	RPG04-0296-PC	**5NPT8**
Seat Washers and Screws, Chrome	RPG45-0033	**3HER2**
Vacuum Breaker Repair Kit	RPG05-0520	**3HER7**
Widespread Standard Trim Repair Kit	RPG10-0070-PC	**4NGX8**

Aerated

Laminar

Spray

Unthreaded 4XGL4

Threaded 46CF70

Faucet Outlet Adapter 20K845

Installation Wrench 4XGK1

NEOPERL®

Faucet Aerators & Outlets

- OEM quality

Connect to the end of a faucet spout to direct the water stream, minimize splashing in sink basins, and reduce water use. These parts are added to faucets for flow-control applications and used as replacements for aerators that block water flow, cause the water stream to sputter, or allow dripping from the spout.

Unthreaded Faucet Aerator Inserts and Flow Restrictors—Easily fit into faucet spouts.

Threaded Faucet Aerators and Flow Restrictors—Thread onto faucet spouts.

Faucet Outlet Adapters—Allow the faucet spout to be fitted with different types of aerators and adapted to suit different applications.

Faucet Aerator Installation Tools—Aid in the installation and removal of clogged faucet aerators. Tools fit a compatible aerator and faucet without causing damage.

Flow Rate	Std.	Item No.	Pkg. Qty.
Untreaded Faucet Aerator Inserts & Flow Restrictors, Acetal Finish			
Aerated			
1.2 gpm	NSF 61	**46CF55**	1
	NSF 61	**46CF68**	1
1.5 gpm	NSF 61	**4XGL4**	1
	NSF 61	**4XGL7**	1
1.8 gpm	NSF 61	**46CF64**	1
	NSF 61	**46CF72**	1
1 gpm	NSF 61	**4XGL3**	1
2.2 gpm	NSF 61	**4XGL6**	1
	NSF 61	**4XGL8**	1
Laminar			
1.5 gpm	NSF 61	**4XGL5**	1
Spray			
0.35 gpm	NSF 61	**10N188**	1
	NSF 61	**10N189**	1
0.5 gpm	NSF 61	**4XGL2**	1

Thread Size	Thread Size Type	Flow Rate	Std.	Item No.		Pkg. Qty.
Threaded Faucet Aerators & Flow Restrictors, Chrome Finish						
Aerated						
¾ in - 27	Female	1.2 gpm	NSF 61	**46CF70**		1
	Female	1.5 gpm	NSF 61	**4XGH1**		1
	Female	1.8 gpm	NSF 61	**46CF74**		1
	Female	2.2 gpm	NSF 61	**4XGH2**		1
13/16 in - 24	Female	1.2 gpm	NSF 61	**46CF71**		1
	Female	1.5 gpm	NSF 61	**4XGH3**		1
	Female	1.8 gpm	NSF 61	**46CF75**		1
	Female	2.2 gpm	NSF 61	**4XGH5**		1
13/16 in - 27	Male	1.2 gpm	NSF 61	**46CF69**		1
	Male	1.5 gpm	NSF 61	**4XGG8**		1
	Male	1.8 gpm	NSF 61	**46CF73**		1
	Male	2.2 gpm	NSF 61	**4XGG9**		1
55/64 in - 27	Female	1 gpm	NSF 61	**4XGF8**		1
	Female	1.2 gpm	NSF 61	**46CF57**		1
	Female	1.5 gpm	NSF 61	**4XGF9**		1
	Female	1.8 gpm	NSF 61	**10N176**		1
	Female	2.2 gpm	NSF 61	**4XGG2**		1
15/16 in - 27, 55/64 in - 27	Dual	1 gpm	NSF 61	**4XGG4**		1
	Dual	1 gpm	NSF 61	**4XGN1**		6
	Dual	1 gpm	NSF 61	**5UUZ6**	*	40
	Dual	1 gpm	NSF 61	**5UUZ5**		50
	Dual	1.2 gpm	NSF 61	**46CF58**		1
	Dual	1.2 gpm	NSF 61	**46CF62**	*	1
	Dual	1.2 gpm	NSF 61	**46CF59**		6
	Dual	1.2 gpm	NSF 61	**46CF63**	*	40
	Dual	1.2 gpm	NSF 61	**46CF60**		50
	Dual	1.5 gpm	NSF 61	**4XGG5**		1
	Dual	1.5 gpm	NSF 61	**4XGJ2**	*	1
	Dual	1.5 gpm	NSF 61	**4XGN2**		6
	Dual	1.5 gpm	NSF 61	**5UUZ7**	*	40
	Dual	1.5 gpm	NSF 61	**4XGN6**		50
	Dual	1.8 gpm	NSF 61	**10N177**		1
	Dual	1.8 gpm	NSF 61	**10N179**	*	1
	Dual	1.8 gpm	NSF 61	**46CF65**		6
	Dual	1.8 gpm	NSF 61	**46CF67**	*	40
	Dual	1.8 gpm	NSF 61	**46CF66**		50
	Dual	2.2 gpm	NSF 61	**4XGG7**		1
	Dual	2.2 gpm	NSF 61	**4XGJ3**	*	1
	Dual	2.2 gpm	NSF 61	**4XGN4**		6
	Dual	2.2 gpm	NSF 61	**5UVA0**	*	40
	Dual	2.2 gpm	NSF 61	**4XGN7**		50
15/16 in - 27	Male	1 gpm	NSF 61	**4XGF3**		1
	Male	1.2 gpm	NSF 61	**46CF56**		1
	Male	1.2 gpm	NSF 61	**46CF61**		1
	Male	1.5 gpm	NSF 61	**4XGF4**		1
	Male	1.5 gpm	NSF 61	**4XGH8**	*	1
	Male	1.8 gpm	NSF 61	**10N175**		1
	Male	1.8 gpm	NSF 61	**10N178**	*	1
	Male	2.2 gpm	NSF 61	**4XGF6**		1
	Male	2.2 gpm	NSF 61	**4XGH9**	*	1
Laminar						
13/16 in - 24	Female	1.8 gpm	NSF 61	**46CF76**		1
55/64 in - 27	Female	1.5 gpm	NSF 61	**4XGG1**		1
15/16 in - 27, 55/64 in - 27	Dual	1.5 gpm	NSF 61	**4XGG6**		1
	Dual	1.5 gpm	NSF 61	**4XGN3**		6
	Dual	1.5 gpm	NSF 61	**5UUZ9**	*	40
	Dual	1.5 gpm	NSF 61	**5UUZ8**		50
15/16 in - 27	Male	1.5 gpm	NSF 61	**4XGF5**		1
Spray						
¾ in-27	Female	0.35 gpm	NSF 61	**10N181**		1
¾ in - 27	Female	0.35 gpm	NSF 61	**10N185**	*	1
	Female	0.5 gpm	NSF 61	**10N183**		1
	Female	0.5 gpm	NSF 61	**10N187**	*	1
13/16 in-27	Male	0.35 gpm	NSF 61	**10N180**		1
13/16 in - 27	Male	0.35 gpm	NSF 61	**10N184**	*	1
	Male	0.5 gpm	NSF 61	**10N182**		1
	Male	0.5 gpm	NSF 61	**10N186**	*	1
55/64 in-27	Female	0.35 gpm	NSF 61	**10N171**		1
55/64 in - 27	Female	0.5 gpm	NSF 61	**4XGF7**		1
15/16 in - 27, 55/64 in - 27	Dual	0.35 gpm	NSF 61	**10N172**		1
	Dual	0.35 gpm	NSF 61	**10N174**	*	1
	Dual	0.35 gpm	NSF 61	**10N192**		6
	Dual	0.35 gpm	NSF 61	**10N194**	*	40
	Dual	0.35 gpm	NSF 61	**10N193**		50
	Dual	0.5 gpm	NSF 61	**4XGG3**		1
	Dual	0.5 gpm	NSF 61	**4XGJ1**	*	1
	Dual	0.5 gpm	NSF 61	**4XGL9**		6
	Dual	0.5 gpm	NSF 61	**4XGN5**	*	40
	Dual	0.5 gpm	NSF 61	**5UUZ4**		50
15/16 in-27	Male	0.35 gpm	NSF 61	**10N170**		1
15/16 in - 27	Male	0.35 gpm	NSF 61	**10N173**	*	1
	Male	0.5 gpm	NSF 61	**4XGF2**		1
	Male	0.5 gpm	NSF 61	**4XGH7**	*	1

Thread Size	Connection	Thread Size Type	Finish	Std.	Item No.	Pkg. Qty.
Faucet Outlet Adapters						
¾ in GH	Large Diameter, ¾ in MGHT	Male	Unfinished	NSF 61	**4XGJ9**	1
13/16 in-24, 55/64 in-27	13/16 in-24 Female x 55/64 in-27 Male	Dual	Chrome	NSF 61	**20K845**	1
13/16 in -27, 55/64 in -27	—	Male	Acetal	NSF 61	**10N197**	1
13/16 in-27, 55/64 in-27	13/16 in-27 Male x 55/64 in-27 Male	Male	Chrome	NSF 61	**20K849**	1
15/16 in -27, 55/64 in -27	15/16 in-27 and 55/64 in-27	Dual	Chrome	NSF 61	**20K848**	1
	—	Male	Acetal	NSF 61	**10N196**	1
15/16 in-27, 55/64 in-27	15/16 in-27 and 55/64 in-27 x ¾ in Male	Dual	Chrome	NSF 61	**20K846**	1
55/64 in -27	3 Sleeves Small Opening x 55/64 in -27 Male	Male	Chrome	NSF 61	**20K850**	1
Multiple Thread Sizes	—	Dual	Chrome	NSF 61	**20K851**	1

For Use With	Item No.
Faucet Aerator Installation Wrenches	
10N170 to 10N172, 4XGF2 to 4XGF9, 4XGG1 to 4XGG9, 10N175 to 10N177, 10N180 to10N183, 4XGH1 to 4XGH6, 10N194, 4XGN5, 5UUZ6, 5UUZ7, 5UUZ9, 5UVA0	**4XGK1**
10N184 to 10N187	**10N198**
10N173, 10N174, 10N178, 10N179, 4XGH7 to 4XGH9, 4XGJ1 to 4XGJ3, 10N192, 10N193, 4XGL9, 5UUZ4, 5UUZ5, 4XGN1 to 4XGN4, 4XGN6, 5UUZ8, 4XGN7	**10N199**

** Vandal resistant.*

Plumbing Specialty Tools

Description	Brand	Item No.
Brush		
4 In 1 Pipe Cleaning Brush	Superior	1LNX4
Caddies		
Nipple Caddy, for ½ in Nipples	Harvey	4NDN2
Nipple Caddy, for ¾ in Nipples	Harvey	4NDN1
Plumbing Specialty Tools		
Drain Stick	Superior	1LNY2
Tub Drain Tool Remover	Superior	45W755
Keys		
Combination Street Key, 30 in L	—	1WJU2
Combination Water Meter Key, 12 in L	—	1WJT9
Shutoff Valve Keys	—	1WJT1
PEX Tool		
Pex Crimp Tool	Superior	4XLF3

Description	Brand	Item No.
Pullers		
Compression Sleeve Puller	Superior	1LNX7
Riser Removal, ½ in, ¾ in Cap.	Superior	6CXE2
Plumbing Specialty Tools		
Tub Shower Valve Socket Set 5 Piece	Superior	1LNX5
Wrenches		
Drum Tap Wrench	—	2GWK2
Sink Drain Wrench, For Pipe Diameter 0 in to 4 ¼ in	Superior	45W758
Sink Drain Wrench, For Pipe Sizes 1¼, 1½, and 2 in Cap.	Superior	1LNX6
Sink Drain Wrench, 1 To 3 in Cap.	Superior	2GWK4
Sink Drain Wrench, 1 to 3 in Cap.	—	34A518
Sink Drain Wrench, 1¼ in Cap.	Superior	1LNY4
Sink Drain Wrench, 1½ in Cap.	Superior	1LNY3

Nipple Caddy
4NDN1

Water Key
1WJT1

Description	Brand	Item No.
Tub Drain Wrench, 4 in Overall Length	Rectorseal	52WU82
Tub Drain Wrench, 6 ⅛ in Overall Length	Superior	1LNY7
Tub Drain Wrench, 7.7 in Overall Length	—	447M48
Universal Faucet Wrench	Superior	45W754
Water Shutoff Wrenches, 12 in, 15 in Handle Length	—	34A517
Water Shutoff Wrenches, 15 in Handle Length	Superior	2GWK3

Plungers and Drain Flushers

Clog-Buster—Unclog drain pipes in seconds without harmful chemicals. Attach to standard ¾" garden hose fitting.

Item	Plunger Material	Cup Dia.	Handle Length	Handle Material	Brand	Item No.
Plungers						
Plunger	Rubber	6 in	16 ¼ in	Plastic	Korky	48H474
Plunger	Rubber	6 ¼ in	21 in	Wood	Korky	29VM26
Plunger With Drip Tray	Premium Rubber	5 ¾ in	16 ¼ in	Plastic	Korky	2XLD4
Forced Cup Plunger	Durable Rubber	4 in	8 in	Wood	—	1RLV7
Forced Cup Plunger	Rubber	5 in	19 in	Wood	—	1LNX3
Forced Cup Plunger	Durable Rubber	6 in	21 in	Wood	—	1RLV8
E-Z Bellows Plunger	Plastic	7 in	12 in	Plastic	—	5TF30
Clog-Buster						
Clog-Buster Drain opener, 1½ in to 3 in					Cherne	3NWA4
Clog-Buster Drain opener, 4 in to 6 in					Cherne	3NWA5

3NWA4

48H474

Toilet Supports

Plunger Splash Guard—Clear splash guard helps keep water from splashing out of the toilet bowl.

- Fits most round or elongated toilets

Toilet Supports—Use with most wall-mounted toilets to increase capacity up to 1000 lb.

- Fit round or elongated toilets

12G703

12G702

Item	Rated Life	Material	Size	Mfr. Model	Item No.
Plunger Splash Guard	Disposable	Plastic	Adjustable	PSG	40XA70
Toilet Support	—	Flexible PVC, High Impact ABS, Steel	5 in x 7 ½ in	612011919-S	12G703
			7 ½ in x 14 in	612011919	12G702

Bedpan Washing Systems

- ADA compliant with vandal-resistant stop cap, except American Standard

Sloan has exposed diaphragm-type, closet flush valve for floor-mount or wall-hung bowls with a 1½" top spud. All have 1-pc. body to keep spray arm upright. Include valve body, stop body, diverter body, and diverter pivot, except American Standard has no valve. For information on standards, go to Grainger.com.

4LW44

24PR45

3EPV4

Description	Mfr. Model	Item No.
Bedpan Washer Flush Valves, SLOAN		
1.6 gpf, 26 ½ in Rough-In, Diaphragm	Royal BPW 1100-1.6	6UYN6
3.5 gpf, 34 ⅜ in Rough-In, Diaphragm	ROYAL BPW 1000	4LW44
Bedpan Washer Retrofit Kits, AMERICAN STANDARD		
20 to 80 psi Press. Range, 1½ in Inlet	6047800.002	24PR45
20 to 80 psi Press. Range, 1½ in Inlet	6047815.002	24PR46
Repair Parts, SLOAN		
Bedpan Washer Retrofit Kit, for Bedpan Washer	DV100	4LW53
Bedpan Washer Retrofit Kit, for Sloan Bedpan Washers	DV130	3EPV7
Toilet Valve Bodies	DV1	3EPV4
Diverter Valve Kit	DV50A	2XU45
Pivot Replacement Kit	DV1003A	2XU44
Spray Arm Repair Kit	DV32AA	2VEE2

Automatic Flush Valves

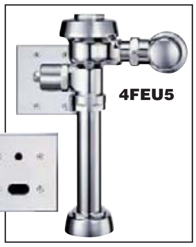
American Standard—Touchless Sensor models have a chrome finish and a proximity sensor for hygienic hands-free operation with mechanical override. Self-cleaning piston helps prevent clogging and reduces maintenance. Range and flush volume can be adjusted manually or with Remote Control 24X050, sold separately on Grainger.com.

Sloan—Sensor-activated with exposed, diaphragm-type flushing system. 3-sec. delay. Courtesy Flush override button on toilet type only.

Zurn—Include actuator, control stop, internal seals, piston kit, sensor, and vacuum breaker.

Fixture Type	Gal. per Flush	Rough-In	Spud Coupling	Inlet Size	Basic Power Source	Finish	Mfr. Model	Item No.
American Standard Selectronic								
Toilet	1.1 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	6065111.002	31AA30
	1.1 gpf, 1.28 gpf, 1.6 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	6065761.002	16T991
	1.28 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	6065121.002	16T987
	1.6 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	6065161.002	16T986
Urinal	0.125 gpf	11 ½ in	¾ in	¾ in	Battery	Chrome	6063013.002	16T990
	0.5 gpf	11 ½ in	¾ in	¾ in	Battery	Chrome	6063051.002	16T989
	1 gpf	11 ½ in	¾ in	¾ in	Battery	Chrome	6063101.002	16T988
Sloan Royal								
Toilet	1.28 gpf	11 ½ in	1 ½ in	1 in	Electric	Chrome	Royal 111-1.28 ESS	6UYN2
	1.6 gpf	11 ½ in	1 ½ in	1 in	Electric	Chrome	Royal 111 ESS	4FEU5
Urinal	1 gpf	11 ½ in	¾ in	¾ in	Electric	Chrome	Royal 186-1 ESS	4FEU6
Zurn								
Toilet	1.28 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	ZTR6200EV	22LU02
		11 ½ in	1 in	1 in	Battery	Polished Chrome	ZER6000AV-HET-CPM	46CE26
	1.6 gpf	11 ½ in	1 ½ in	1 in	Battery	Chrome	ZTR6200-WS1	22LU03
Urinal	0.125 gpf	11 ½ in	¾ in	1 in	Battery	Chrome Plated	ZTR6203-ULF	38ZL88
	0.5 gpf	11 ½ in	¾ in	¾ in	Battery	Chrome Plated	ZTR6203-EWS	22LU05
	1 gpf	11 ½ in	¾ in	¾ in	Battery	Chrome Plated	ZTR6203-WS1	22LU04

16T986



4FEU5

Automatic Flush Valves

SLOAN

- 11½" rough-in

For information on standards, go to Grainger.com.

ECOS/G2—Install exposed, battery-powered, sensor-operated flush valves on floor-mounted or wall-hung top spud bowls to help meet ADA requirements. Features include 3-sec. flush delay, manual override button, unit reset, and unit shutdown. 3-yr. warranty. Urinal models have courtesy flush 24 hr. after last flushing cycle. Full units include valve body, tailpiece, and control stop.

SOLIS—Automatic, sensor-operated flush valves use photovoltaic technology to convert just about any natural or artificial light source into power; no need for electricity. Include LED low-battery indicator, instructional wall plates, vandal-resistant stop cap, and manual override.

2VEF7

Dual Flush Retrofit Kit 2VEF9

Dual-Flush—Detect user presence and duration to determine more-efficient effective flush volume—reduced cycle for liquid waste; full cycle for solid waste. Split-button design allows manual activation of either cycle. Include control module, flex tube diaphragm, installation strap wrench, screwdriver device, and 2 instructional wall plates.

Retrofit Kits—Top mount kits fit all Sloan valve assemblies and do not include valve body, tailpiece, or control stop. They allow a flushometer to be converted from manual to automatic operation for hands-free flushing. Include a full diaphragm assembly.

Brand and Series	Gal. per Flush	Spud Coupling	Battery Mfr. Model	Battery Item No.	Solar Mfr. Model	Solar Item No.
Toilet Automatic Flush Valve, Inlet: 1 in IPS						
Sloan ECOS	1.1, 1.28, 1.6	1 ½ in	ECOS 8111	**2VEF7**	—	—
Sloan G2	1.28	1 ½ in	G2 8111-1.28	**2VED5**	—	—
	1.6	1 ½ in	G2 8111	**3UU62**†	—	—
	3.5	1 ½ in	G2 8110	**3UU61**†	—	—
Sloan Solis	1.1, 1.28, 1.6	1 ½ in	—	—	Solis 8111-1.6/1.1	**3ETX8**
	1.28	1 ½ in	—	—	Solis 8111-1.28	**3ETX6**
	1.6	1 ½ in	—	—	Solis 8111-1.6	**3ETX7**
Urinal Automatic Flush Valve, Inlet: ¾ in IPS						
Sloan ECOS	0.125	¾ in	ECOS 8186-0.13 OR	**6UYL5**†	—	—
	0.25	¾ in	ECOS 8186-0.25 OR	**5XTG3**	—	—
	0.5	¾ in	ECOS 8186-0.5 OR	**5XTG7**	—	—
Sloan G2	1	¾ in	G2 8186-1	**3UU64**†	—	—
	1.5	¾ in	G2 8186	**3UU63**†	—	—
Sloan Solis	0.5	¾ in	—	—	Solis 8186-0.5	**5XTG6**
	1	¾ in	—	—	Solis 8186-1	**3ETX9**
	1.5	¾ in	—	—	Solis 8186-1.5	**3ETY4**

Brand and Series	For Use With	Gal. per Flush	Flush Mode*	Battery Life Year @ Flushes per Month	Battery Mfr. Model	Battery Item No.	Solar Mfr. Model	Solar Item No.
Toilet Automatic Flush Valve Retrofit Kit, Sensor Range: 15 in to 30 in								
Sloan	Exposed Flushometers	1.1, 1.28, 1.6	SF	6 yr	EBV1004A	**3ETV5**	—	—
Toilet Automatic Flush Valve Retrofit Kit, Sensor Range: 22 in to 42 in								
Sloan	Sloan OPTIMA Flushometers	1.1, 1.28, 1.6	SF	6 yr @ 4000	—	—	EBV1005A	**4FEZ5**
	Sloan OPTIMA Flushometers	1.6	SF	6 yr @ 4000	—	—	EBV1007A	**4FEZ7**
Sloan ECOS	Exposed Flushometers	1.1, 1.28, 1.6	Dual Flush	3 yr @ 3000	ECOS RESS-C 1.6/1.1	**2VEF9**	—	—
Sloan G2	Sloan Exposed Closet Flushometers	1.6, 3.5	SF	3 yr @ 4000	RESS-C	**3UU59**	—	—
Sloan Solis	Sloan Exposed Closet Flushometers	1.1, 1.28, 1.6	Dual Flush	6 yr @ 4000	—	—	Solis DF RESS-C-1.6/1.1	**3ETY5**
	Sloan Exposed Closet Flushometers	1.28	SF	6 yr @ 4000	—	—	Solis RESS-C-1.28	**3ETY1**
	Sloan Exposed Closet Flushometers	1.6	SF	6 yr @ 4000	—	—	Solis RESS-C-1.6	**3ETY2**
Urinal Automatic Flush Valve Retrofit Kit, Sensor Range: 15 in to 30 in								
Sloan G2	Regal Pro and Regal Flushometers, Sloan Royal	0.25	SF	3 yr @ 4000	G2 RESS-U-0.25	**5XTG5**	—	—
	Regal Pro and Regal Flushometers, Sloan Royal	0.5	SF	3 yr @ 4000	G2 RESS-U-0.5	**5XTG4**	—	—
	Sloan Exposed Urinal Flushometers	1.0, 1.28, 1.5	SF	3 yr @ 4000	G2 RESS-U	**3UU60**	—	—
Sloan Solis	Regal Pro and Regal Flushometers, Sloan Royal	0.25	SF	6 yr @ 4000	—	—	Solis RESS-U-0.25	**5XTG9**
	Regal Pro and Regal Flushometers, Sloan Royal	0.5	SF	6 yr @ 4000	—	—	Solis RESS-U 0.5	**5XTG8**
	Sloan Exposed Urinal Flushometers	1.0, 1.28, 1.5	Dual Flush	6 yr @ 4000	—	—	Solis RESS-U	**3ETY3**
Urinal Automatic Flush Valve Retrofit Kit, Sensor Range: 22 in to 42 in								
Sloan	Sloan OPTIMA Flushometers	1.0	SF	6 yr @ 4000	—	—	EBV1006A	**4FEZ6**

** SF = single flush. † Include 4 AA batteries.*

SLOAN ZURN American Standard

Automatic Side-Mount Flush Valves

Toilet 2VEH8

- 11½" rough-in

Battery powered valves can be used with floor-mounted or wall-hung top and spud bowls. Suitable for left- or right-hand supply; include valve body, tailpiece, control stop, and 4 C batteries. User-friendly 3-sec. delay. 5-yr. manufacturer's warranty, except Zurn models are 3 yr. only. ADA compliant when properly installed. All models meet ASSE 1037, ANSI/ ASME A112.19.2, except Zurn models.

Gal. per Flush	Spud Coupling	Brand	Mfr. Model	Item No.
Toilet Automatic Flush Valve, Inlet: 1 in IPS				
1.28	1 ½ in	Sloan	SLOAN 111-1.28 DFB SMO	**5XTF9**
	1 ½ in	Zurn	ZER6000PL-HET-CPM	**5WYH1**
1.6	1 ½ in	Sloan	Sloan 111 DFB SMO	**2LRZ4**
	1 ½ in	Zurn	ZER6000AV-WS1-CPM	**2VEH9**
3.5	1 ½ in	Sloan	Sloan 110 DFB SMO	**2LRZ5**
	1 ½ in	Zurn	ZER6000AV-CPM	**2VEH8**
Urinal Automatic Flush Valve, Inlet: ¾ in IPS				
0.5	¾ in	Sloan	SLOAN 186-0.5 DFB SMO	**5XTG0**
	1 ½ in	Amer. Std.	6045SM051.002	**448N76**
1	¾ in	Sloan	Sloan 186-1 DFB SMO	**2LRZ6**
	¾ in	Zurn	ZER6003AV-WS1-CPM	**2VEJ2**
0.125	¾ in	Zurn	ZER6003AV-ULF-CPM	**6RKG8**
1.5	¾ in	Sloan	Sloan 186 DFB SMO	**2LRZ7**
	¾ in	Zurn	ZER6003AV-CPM	**2VEJ1**

American Standard

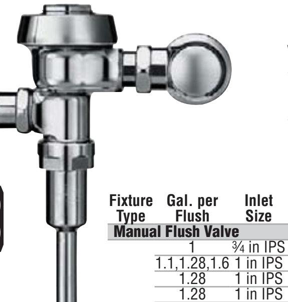
Manual Piston-Type Flush Valves

16T981

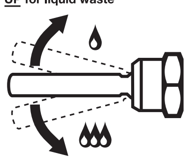
- Recommended operating pressure: 20 psi (flowing), 80 psi (static)
- 11½" rough-in

Feature self-cleaning brass piston with integral wiper spring that helps prevent clogging and reduce maintenance. Nonhold-open handle, chloramine-resistant EPDM seals. Valves include sweat solder kit, cover tube, and wall flange. ADA compliant.

Description	Gal. per Flush	Inlet Size	Spud Coupling	Mfr. Model	Item No.
Toilet	1.28	1 in IPS	1 ½ in	6047121.002	**16T984**
	1.6	1 in IPS	1 ½ in	6047161.002	**16T985**
Urinal	0.125	¾ in IPS	¾ in	6045013.002	**16T981**
	0.5	¾ in IPS	¾ in	6045051.002	**16T982**
	1	¾ in IPS	¾ in	6045101.002	**16T983**



Royal Flush Valve



Dual-Flush Handle 2XU39

Manual Flush Valves

SLOAN

Exposed valves have free-spinning, vandal-resistant stop caps. Integral vacuum breaker helps prevent back siphoning. ADA-compliant oscillating, nonhold-open handles and an adjustable tailpiece. For information on standards, go to Grainger.com.

Manual Dual Flush Valves and Dual Flush Valve Handle—Handle converts existing flush valves to water-conserving units that allow either full or partial flushes: lift handle for liquid waste; push down for solid waste. Handle has a green-colored antimicrobial coating. Include 2 instructional wallplates.

Fixture Type	Gal. per Flush	Inlet Size	Spud Coupling	Rough-In	Flush Valve Design	Mfr. Model	Item No.
Manual Flush Valve							
Toilet	1	¾ in IPS	¾ in	11 ½ in	Piston	CROWN 111-1.2	**2VED4**
	1.1,1.28,1.6	1 in IPS	1 ½ in	11 ½ in	Diaphragm	WES111	**2XU40**
	1.28	1 in IPS	1 ½ in	11 ½ in	Diaphragm	Royal 111-1.28	**1EPE2**
	1.28	1 in IPS	1 ½ in	24 in	Diaphragm	Royal 115-1.28	**6UYN3**
	1.6	1 in IPS	1 ½ in	11 ½ in	Diaphragm	Royal 111	**4LW39**
	1.6	1 in IPS	1 ½ in	11 ½ in	Diaphragm	REGAL 111 XL	**2VEC7**
	1.6	1 in IPS	1 ½ in	27 in	Diaphragm	Royal 116 1.6	**4LW40**
	3.5	1 in IPS	1 ½ in	11 ½ in	Diaphragm	Royal 110	**5P009**
	3.5	1 in IPS	1 ½ in	11 ½ in	Diaphragm	REGAL 110 XL	**2VEC8**
	3.5	1 in IPS	1 ½ in	27 in	Diaphragm	Royal 116	**5P011**
Urinal	0.125	¾ in IPS	¾ in	11 ½ in	Diaphragm	Z6003PL-ULF	**46CD88**
	0.125	¾ in IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.13	**6UYN5**
	0.25	¾ in IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.25	**5XTG1**
	0.5	¾ in IPS	¾ in	11 ½ in	Diaphragm	Royal 186-0.5	**2VEG3**
	0.5	¾ in IPS	¾ in	11 ½ in	Diaphragm	REGAL 186-0.5 XL	**2VEG4**
	1	¾ in IPS	¾ in	11 ½ in	Diaphragm	Royal 186-1	**4LW43**
	1	¾ in IPS	¾ in	11 ½ in	Diaphragm	REGAL 186-1 XL	**2VED3**
	1.5	¾ in IPS	¾ in	11 ½ in	Diaphragm	Royal 186	**5P013**
	1.5	¾ in IPS	¾ in	11 ½ in	Diaphragm	REGAL 186 XL	**2VED2**
	3.5	1 in IPS	1 ¼ in	11 ½ in	Diaphragm	Royal 180	**5P012**
	3.5	1 in IPS	1 ¼ in	11 ½ in	Diaphragm	REGAL 180 XL	**2VED1**
Dual Flush Handle, For Use With Royal and Regal Flush Valves							
—	—	—	—	—	—	WES212A	**2XU39**

American Standard · MOEN · ZURN · Rubbermaid Commercial Products · SLOAN

Automatic Flush Valve Retrofit Kits

ADA compliant, except for 448N68 and 448N69. All include 4 C batteries and installation tools.

Side-Mount—Install without water shutoff. Adjustable sensor range. 24-hr. courtesy flush option. Valve body, supply stop, or vacuum breaker not included, except 20CM32 comes with a valve body. 448N68 is for Sloan and Zurn flush valves. 448N69 is for American Standard and GEM flush valves.

2TET9, 2TEU1, and 1GAB3 allow you to slide the unit over the flush valve handle and tighten for fast installation. 1GAB3 has a true mechanical override.

Top-Mount—40D676 is all-metal construction with easy battery access. 25CH56 has a chrome-plated plastic E-Z Flush sensor unit with 3-yr. battery life.

Over-Handle 1GAB3

Side-Mount 1GAB2

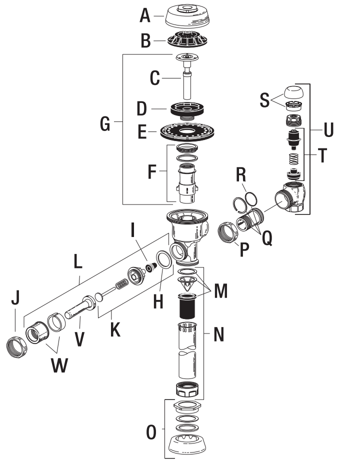
Brand and Series	Gal. per Flush	Fixture Type	Mounting Type	Sensor Range	Item No.
Automatic Flush Valve					
American Standard Selectronic	1.28 gpf	Toilet	—	15 ¾ in to 31 ½ in	**16T987**
Automatic Flush Valve Retrofit Kit					
Moen Commercial	1.6 gpf	Toilet	Top Mount	1 in to 18 in	**40D676**
Zurn	1.0, 1.6, 3.5	Toilet/Urinal	Side Mount	12 in to 44 in	**2VEJ4**
Rubbermaid Commercial	0	Toilet/Urinal	Over the Handle Mount	12 in to 48 in	**2TET9**
	0	Toilet/Urinal	Over the Handle Mount	12 in to 48 in	**2TEU1**
Sloan	0	Toilet/Urinal	Side Mount	15 in to 42 in	**20CM32**
	0	Toilet/Urinal	Over the Handle Mount	26 in to 32 in	**1GAB3**
Zurn	1.0, 1.6, 3.5	Toilet/Urinal	Top Mount	6 in to 40 in	**25CH56**
American Standard	0	Toilet/Urinal	Side Mount	8 in to 48 in	**448N68**
American Standard GEM	0	Toilet/Urinal	Side Mount	8 in to 48 in	**448N69**
Rubbermaid Commercial	0	Toilet/Urinal	Side Mount	8 in to 48 in	**2TEU2**
Sloan	0	Toilet/Urinal	Side Mount	8 in to 54 in	**1GAB2**

SLOAN

Manual Flush Valve Repair Parts and Kits

For additional parts, call 1-800-GRAINGER (472-4643). For an even larger assortment of repair parts and kits, go to Grainger.com.

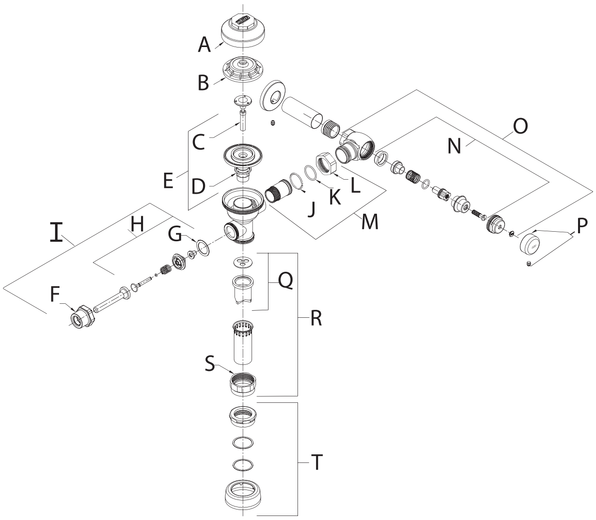
Key	Description	Mfr. Model	Item No.
A	Flush Valve Cover, Royal	A72	**2XU43**
	Outside Cover, Regal	R10	**3ERD6**
B	Inside Cover	A71	**2XU12**
C	Relief Valve, White, Toilet	A19AC	**2XU10**
	Relief Valve, Black, Urinal	A19AU	**2XU11**
	Relief Valve, Green, Toilet/Urinal	A19ALC	**2VEG9**
D	Molded Disc	A15A	**2XJ98**
E	Disc, Black Rubber	A156A	**2XJ96**
F	Guide Assembly, 1.6 GPF, Toilet	A151A	**2VEG5**
	Guide Assembly, 3.5 GPF, Toilet	A152A	**2VEG6**
	Guide Assembly, 4.5 GPF, Toilet	A163A	**2XJ99**
	Guide Assembly, 1.0 GPF, Urinal	A155A	**3EPU5**
G	Diaphragm Assembly, 1.28 gpf, High Efficiency Toilet	A1045A	**4FEU7**
	Diaphragm Assembly, 1.6 GPF, Toilet, Royal	A1041A	**4FB32**
	Diaphragm Kit, 1.6 GPF, Toilet, Regal	A41A	**4LW51**
	Diaphragm Kit, 2.4 gpf, Toilet, Royal	A1044A	**3EPU2**
	Diaphragm Assembly, 2.4 gpf, Toilet, Regal	A44A	**3EPU7**
	Diaphragm Kit, 3.5 GPF, Toilet, Royal	A1038A	**4FB31**
	Diaphragm Kit, 3.5 GPF, Toilet, Regal	A38A	**5P213**
	Diaphragm Kit, 4.5 GPF, Toilet, Regal	A36A	**5P211**
	Diaphragm Assembly, 0.25 gpf Toilet, Regal	A1047A	**5XTF6**
	Diaphragm Kit, 0.5 GPF, Urinal, Royal	A1043A	**2VED7**
	Diaphragm Kit, 0.5 GPF, Urinal, Regal	A43A	**2VED6**
	Diaphragm Kit, 1.0 GPF, Urinal, Royal	A1042A	**4FB33**
	Diaphragm Kit, 1.0 GPF, Urinal, Regal	A42A	**4LW52**
	Diaphragm Kit, 1.5 GPF, Urinal, Royal	A1037A	**4FB30**
	Diaphragm Kit, 1.5 GPF, Urinal, Regal	A37A	**5P212**
Handles			
H	Gasket, Pkg. of 48	A31	**2VEG7**
I	Handle Packet, Pkg. of 12	B39	**2VEH2**
J	Handle Coupling	A6	**2XU42**
K	Handle Repair Kit	B51A	**2XU13**
	Handle Repair Kit	B50A	**5E545**
L	Handle Kit, ADA	B73A	**5E544**
	Handle Kit, ADA, Antimicrobial	B73A-SG	**2VDZ9**
V	Handle Grip Sub Assembly, ADA	B74A	**3EPU8**
W	Socket Assembly	B7A	**5XTH2**
Vacuum Breakers			
M	Vacuum Breaker Repair Kit, Regal	V551A	**5E546**
	Vacuum Breaker Repair Kit, Royal	V651A	**2XU35**
N	High Back Pressure Vacuum Breaker Assembly, ¾ in x 9 in	V600AA ¾ X 9	**6NB11**
	High Back Pressure Vacuum Breaker Assembly, 1½ in x 9 in	V600AA 1½ X 9	**6NB12**
	High Back Pressure Vacuum Breaker Assembly, 1¼ in x 9 in	V600AA 1¼ x 9	**2VEG2**
	Vacuum Breaker Assembly, 1½ in x 13½ in	V600AA 1 ½ X 13 ½	**3ERF2**
	Vacuum Breaker Assembly, 1½ in x 21½ in	V600AA 1 ½ X 21 ½	**3ERF3**
	Vacuum Breaker Assembly Assembly and Pipe, 1½ in x 15 in	V500AA 1½ x 15	**2VEA6**
	Vacuum Breaker Assembly Assembly and Pipe, 1½ in x 24½ in	V600AA 1½ x 24½	**2VEC6**
	Vacuum Breaker Assembly, ¾ in x 9 in	V500AA ¾ X 9	**3ERE3**
	Vacuum Breaker Assembly, ¾ in x 10 ½ in	V500AA ¾ X 10 ½	**3ERF1**
	Vacuum Breaker Assembly, 1 ¼ in x 9 in	V500AA 1 ¼ X 9	**3ERE2**
	Vacuum Breaker Assembly, 1 ½ in x 9 in	V500AA 1 ½ X 9	**3ERE4**
	Vacuum Breaker Assembly, 1 ½ in x 10 ½ in	V500AA 1 ½ X 10 ½	**3ERE5**
	Vacuum Breaker Assembly, 1 ½ in x 13 ½ in	V500AA 1 ½ X 13 ½	**3ERE6**
	Vacuum Breaker Assembly, 1 ½ in x 21 ½ in	V500AA 1 ½ X 21 ½	**3ERE7**
	Vacuum Breaker Assembly, 1 ½ in x 24 ½ in	V500AA 1 ½ X 24 ½	**3ERE8**
	Vacuum Breaker Assembly, 1 ½ in x 32 in	V500AA 1 ½ X 32	**3ERE9**
O	Spud Coupling Assembly, ¾ in	F5AW	**2XU30**
	Spud Coupling Assembly, 1 ¼ in	F5AU	**2XU29**
	Spud Coupling Assembly, 1 ½ in	F5AT	**2XU28**
	Friction Ring, 1 ½ in Royal and Regal, Pkg. of 48	F3	**4AYE1**
Tailpiece/Stop Repair			
P	Tail Piece Assembly	H550	**2VEH6**
Q	Tail Piece Assembly, 2 1/16 in, Adjustable	H551A	**2XU33**
	Tail Piece Assembly, 3 1/16 in	H551A 3/16	**3ERC1**
	Tail Piece Assembly, 4 1/16 in	H551A 4/16	**3ERC2**
R	O-Ring, Pkg. of 24	H553A	**2XU34**
S	Vandal Resistant Stop Cap, ¾ in	H1009A	**4LW58**
	Vandal Resistant Stop Cap, 1 in	H1010A	**4LW59**
T	Control Stop Repair Kit, ¾ in	H543ASD	**2XU32**
	Control Stop Repair Kit, 1 in	H541ASD	**2XU31**



Key	Description	Mfr. Model	Item No.
Complete Control Stops			
U	Vandal-Resistant, ¾ in, Adjustable	H700A	**2VED9**
	Vandal-Resistant, 1 in, Adjustable	H700A	**2VED8**
	Adjustable Screwdriver Control Stop for Regal Closet Flushometers, 1 in	H-710-A	**2VEC2**
	Control Stop for Regal Closet Flushometers, ¾ in	H710A	**2VEC3**
	Adjustable Screwdriver Control Stop for Regal Closet Flushometers, 1 in	H790A	**2VEC4**
	Control Stop for Regal Urinal Flushometers, ¾ in	H790A	**2VEC5**
Miscellaneous Parts			
	Hydraulic Actuator Cartridge Assembly	HY32A	**2VEA5**
	Hydraulic Actuator Assembly	Hy83A	**2VEE8**
	Super Wrench	A50	**2VDZ8**
	Wheel Handle Stop Repair Kit	H541AWH	**2VEE1**
	Disc	A56AA	**2VEG8**
	Washer Set Repair Kit	A156AA	**2XJ97** *
	Repair Kit, 1 in Connection, w/Stop	H1006A	**5XTH3**
	Slip Joint Coupling, 1½ in	F2AT	**2VEA2**
	Slip Joint Coupling, 1½ in, Pkg. of 2	F2AA	**2VEA4**
	Spud Coupling Assembly, 1½ x 3 in	F56A	**2VEA3**
	Spud Coupling Assembly, ¾ in	F54A	**3ERA6**
	Handle Assembly	B32A	**2VEH1**
	Spud Coupling Assembly, 1½ in	A1010A	**3EPU1**
	Toilet Valve Bodies	A3A	**3EPU6**
	Push Button Assembly	C70A	**3EPU9**
	Stop Cap	H573A	**3ERC6**
	Stop Cap	H582	**3ERC7**
	Friction Ring, 1½ in x 1¼ in, Pkg. of 24	G44	**4AYE5**
	Gasket, 1½ in, Pkg. of 48	VBF511/2	**4AYE9**
	Inside Cover, Old Style (pre 1971)	A11	**3EPU3**
	Piston Assembly	CN1002A	**3EPV1**
	Piston Assembly	CN1003A	**3EPV2**
	Stop Cover Bonnet	H622	**3ERC9**
	Wheel Handle Control Stop, 1 in	H730A	**3ERD1**
	Manual Flush Valve Locking Devices, Pkg. of 12	H552	**4AYE7**
	Gasket, 1 ¼ in, Pkg. of 48	VBF511/4	**4AYF1**

Type	GPF	Dual Filtered Diaphragm Kit† Mfr. Model	Dual Filtered Diaphragm Kit† Item No.	Standard Diaphragm Kit† Mfr. Model	Standard Diaphragm Kit† Item No.
Master Repair Kits for Sloan Royal & Regal Flushometers (Incl. Individual Pieces of G, K, M, & R)					
Urinal	0.5	A1106A	**2XU37**	R1011A	**6UYN0**
	1.0	A1107A	**2XJ95**	R1005A	**2VEE7**
	1.5	A1108A	**2XU38**	R1002A	**2VEE4**
Toilet	1.6	A1101A	**2XJ94**	R1004A	**2VEE6**
	2	—	—	R1012A	**6UYN1**
	2.4	A1103A	**3EPU4**	—	—
	3.5	A1102A	**2XU36**	R1003A	**2VEE5**
	4.5	—	—	R1001A	**2VEE3**

Includes D, E, H, I individual pieces, not full package quantity as noted in table. †Kits include diaphragm, handle repair kit, and vacuum breaker.



Flush Valve Repair Parts

ZURN

Key	Description	For Use With Series	Mfr. Model	Item No.
Manual Flush Valve Outside and Inside Covers				
A	Outside Brass Cover, Chrome Plate	Z6000, Z6001, Z6003, Z6010, Z6014, Z6017	P6000-LL-CP	4HCX5
B	Inside Cover, Plastic		P6000-L	4HCX6
Flush Valve Relief Valves				
C	Closet Relief Valve	Z6000, Z6010, Z6014	P6000-EC13	4HCV1
	Urinal Relief Valve	Z6001, Z6003, Z6017	P6000-EU13	4HCW3
Flush Valve Diaphragm Repair Parts				
D	Guide Assy.	Z6000, Z6010, Z6014	P6000-EG	4HCW1
E	Toilet Kit, 1.28 gpf		P6000-ECA-HET	25CH53
	Toilet Kit, 1.6 gpf		P6000-ECR-WS1	4HCV7 *
	Toilet Kit, 1.6 gpf		P6000-ECA-WS1	4HCV3 †
	Toilet Kit, 3.5 gpf		P6000-ECR-WS	4HCV6 *
	Toilet Kit, 3.5 gpf		P6000-ECA-WS	4HCV2 †
	Urinal Kit, 1.0 gpf	Z6001, Z6003, Z6017	P6000-EUR-WS1	4HCW9 *
	Urinal Kit, 1.0 gpf		P6000-EUA-WS1	4HCW5 †
	Urinal Kit, 1.5 gpf		P6000-EUR-WS	4HCW8 *
	Urinal Kit, 1.5 gpf		P6000-EUA-WS	4HCW4 †
Flush Valve Handle Repair Parts				
F	Handle Nut Coupling	Z6000, Z6001, Z6003, Z6200, Z6201, Z6203	P6000-M1-CP	4HCX9
G	Handle Gasket	Z6200, Z6201, Z6203, Z6210	P6000-M10	4HCX8
H	Handle Repair kit	Z6000, Z6001, Z6003, Z6200, Z6201, Z6203	P6000-MK	4HCY2
I	ADA Handle Assy.	Z6200, Z6201, Z6203, Z6210	P6000-M-ADA	4HCY1
Flush Valve Tailpiece and Stop Repair Parts				
J	Tailpiece Locking Ring	Z6100AV, Z6011, Z6140,	P6000-C30	4HCU5
K	O-Ring, For Use With Tailpiece	Z6142, Z6143, Z6144, Z6150, Z6152, Z6154, Z6155, Z6190, Z6195, Z6196	P6000-C31	4HCU6
L	Stop Nut, Coupling, Use With Control Stop	Z6000, Z6001, Z6003	P6000-C32-CP	4HCU7
M	Tailpiece Assy., 2⅛ in	ZER6000, ZER6001, ZER6003, Z6200PEV, ZEMS6000AV-IS, ZEMS6003AV-IS	P6000-J1	4HCX4
N	Control Stop Repair Kit For 1 and ¾ in	Z6000, Z6001, Z6003, Z6140, Z6142, Z6143, Z6144, Z6150, Z6152, Z6154, Z6155, Z6190, Z6195, Z6196	P6000-D-SD	4HCU8

** Zurn AquaFlush. † Zurn AquaVantage.*

Key	Description	For Use With Series	Mfr. Model	Item No.
O	Control Stop Repair Kit For 1 and ¾ in	Z6000, Z6001, Z6003,Z6200, Z6201, Z6203, ZH6000, ZH6001, ZH6003, ZEMS6000, ZEMS6001, ZEMS6003, ZER6000, ZER6001, ZER6003, ZTR6200, ZTR6201, ZTR6203, Z6200PEV, ZTS6200EV,	P6000-C-SD-CP	34TE20
P	Cap, Vandal Resistant, ¾ and 1 in	ZER6000, ZER6001, ZER6003, Z6200PEV, ZEMS6000AV-IS, ZEMS6003AV-IS, ZH6000, ZH6001, ZH6003	P6000-VC	4HCY3
Flush Valve Vacuum Breaker Repair Parts				
Q	Vac. Breaker Repair Kit, Toilet, Top	Z6000, Z6001, Z6003,Z6200, Z6201, Z6203, ZH6000, ZH6001, ZH6003, ZEMS6000, ZEMS6001, ZEMS6003, ZTR6200, ZTR6201, ZTR6203	P6000-B-HP	25CH47
R	Flush Tube, 1½ x 9 in	ZEMS6000	P6000-A-AA-CP	4HCU2
	Flush Tube/Vac. eaker, 1¼ x 9 in	ZTR6201, ZTR6203, ZEMS6001, ZEMS6003	P6001-A-AA-CP	4HCY4
	Flush Tube/Vac. Breaker, ¾ x 8½ in		P6003-A-AA-CP	4HCY5
	Flush Tube/Vac. Breaker	ZEMS6000	P6000-2-A-AA-CP	4UZN3
	Flush Tube/Vac. Breaker, For 2VEH8	ZER6000	P6000-30-A-AA-CP	5WYH0
	Flush Tube, 1½ x 24 in	ZEMS6000AV-HET, ZEMS6000AV-HET-IS, ZEMS6000AV-WS1, ZEMS6000AV-WS1-IS	P6000-3-A-AA-CP	4HCU1
S	Vac. Breaker Nut, ¾ in, Inlet 1½ in	ZTR6200, ZTR6201, ZTR6203	P6000-AA-CP	4HCU3
Flush Valve Spud Coupling Assemblies and Friction Rings				
T	Escutcheon & Coupling Assy., 1½ in	Z6000, Z6014, Z6096	P6000-H	4HCX3
	Escutcheon & Coupling Assy., ¾ in	Z6001, Z6201, Z6203, ZEMS6001, ZEMS6003, ZTR6201	P6003-H	4HCY6

Description	For Use With Series	Mfr. Model	Item No.
Toilet & Urinal Flushometer Rebuild Kits			
Toilet, 1.28 gpf	Z6000, Z6010,Z6014, Z6096	P6000-ECA-HET-RK	46CD58
Toilet, 1.6 gpf		P6000-ECR-WS1-RK	4HCV8 *
Toilet, 1.6 gpf		P6000-ECA-WS1-RK	4HCV4 †
Toilet, 3.5 gpf		P6000-ECR-WS-RK	4HCV9 *
Toilet, 3.5 gpf		P6000-ECA-WS-RK	4HCV5 †
Urinal, 1.0 gpf	Z6001, Z6003, Z6017, Z6099	P6000-EUR-WS1-RK	4HCX1 *
Urinal, 1.0 gpf		P6000-EUA-WS1-RK	4HCW6 †
Urinal, 1.5 gpf		P6000-EUR-WS-RK	4HCX2 *
Urinal, 1.5 gpf		P6000-EUA-WS-RK	4HCW7 †
Flush Valve Repair Tools			
Hex Wrench	ZERK-CCP, ZERK-CP, ZERK-CPM	PERK6000-W-TC	5WYF6
Automatic Flush Valve Sensor and Cover Repair			
Metal Cover, For 2VEH8, 2VEJ1, 2VEJ4	ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-CPM-LY	PERK6000-L-CPMCR	5WYF2
Battery Drawer, For 2VEH8, 2VEJ1, 2VEJ4	ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-C, ZERK-CCP, ZERK-CPM-LY	PERK6000-BD	5WYF5
Sensor Module, For 2VEH8, 2VEJ1, 2VEJ4	ZER6152, ZER6195, ZER6000, ZER6001, ZER6003, ZERK-CPM, ZERK-C, ZERK-CCP, ZERK-CPM-LY	PERK6000-SR	5WYF7
Actuator Assy., Flush Valve	ZEMS6000AV-HET, ZEMS6000AV-HET-IS, ZEMS6000AV-WS1, ZEMS6000AV-WS1-IS	PEMS6000-HYM	5WYG3
Miscellaneous Parts			
Handle Plunger Repair Kit	ZERK-CCP, ZERK-CP, ZERK-CPM, ZERK-CPM-LY	PERK6000-RK	5WYF8
E-Z Flush Handle Plunger Repair Kit		PERK6000-MRK	5WYF9
Repair Kit For Hydraulic Actuater	ZH6003AV, ZH6611AV-MBP	PH6000-HYA11	5WYG5
Hydraulic Handle Plunger Assy.		PH6000-HYM	5WYG6
Stop Valve Repair Kit, ¾ In	Z6003-EWS-YB-YC, Z6003-WS1-YB-YC, Z6003-YB-YC	PS6003-D	4HCY8
Ground Joint Control Stop Adapter	Z6000,Z6200	P6000-J10	4UZN4
Chemical Resistant Toilet Diaph. Repair Kit, 1-3.5 gpf	Z6000, Z6010, Z6014,	P6000-ER15	4HCW2

4FB36

SLOAN

Automatic Flush Valve Repair Parts

Description	Mfr. Model	Item No.
Hex Wrench	EBV119	3EPX4
Push Button Assembly	EBV123A	5XTH4
Inside Cover Assembly, Incl. Solenoid	EBV145A	2XU50
G2 Sensor Assembly, Toilet	EBV146A-C	2XU22
G2 Sensor Assembly, Urinal	EBV146A-U	2XU23
Coupling Ring	EBV14	3EPX7

Description	Mfr. Model	Item No.
Inside Cover Assembly, Incl. Solenoid	EBV21A	2XU52
Strap Wrench	EBV22	3EPX8
Metal Cover	EBV55A	3EPY1
Metal Cover with Override Button	EBV60A	2XU54
Cover Gasket	EBV67	2VEH3
Volume Regulator, White, Pkg. of 6	EBV102-1	2XU48
Inside Cover	EBV1010A	5XTF7
Handle Cap	EBV1017A	3EPW9
Flex Tube Diaphragm Kit, Toilet, Green/White	EBV1020A	4FB36
Flex Tube Diaphragm Kit, 2.4 gpf Toilet	EBV1021A	6UYL4
Flex Tube Diaphragm Kit, Urinal, Black/Green	EBV1022A	4FB37
Flex Tube Diaphragm Kit, Urinal, Green	EBV1023A	2VEE9
Diaphragm Assembly, 0.25 gfp, High Efficiency Urinal	EBV1025A	5XTF8
Flex Tube Diaphragm Kit, 1.28 gpf, High Efficiency Toilet	EBV1024A	4FEU8
Override Button	EBV1042A	3EPX3
Cover Assembly, Electronic Dual Flush, for Solis	EBV311A	4FEU9
Cover Assembly, Single Flush, for Solis	EBV309A	4FEV1
Electronic Module, Toilet, for Solis	EBV312A-C	4FEV2
Electronic Module Dual Flush, Toilet	WES33A	4FEV4

Description	Mfr. Model	Item No.
Cover Plate	EL201	4FEV5
G2 Electronic Module, Toilet	EBV129A-C	2XU17
G2 Electronic Module, Urinal	EBV129A-U	2XU18
Sensor Assembly	EBV138A	3EPX6
Override Button Assembly, Includes Screws/Hex Wrench	EBV130A	2XU19
Button Cover Assembly	WES23A	3ETY7
Lens Window Cover	EBV131	2VEA7
Cover Assembly	EBV142A	2XU49
Solenoid Assembly, Toilets and Urinals	EBV136A	2XU20
Solenoid Assembly, Toilets and Urinals, Old Style	EBV144A	2XU21
Solenoid Assembly for Exposed Hardwired Valves	EL124-2	3EPY3
Solenoid Actuator Cartridge Assembly	EL128A	2XU56 †
Solenoid Assembly for Concealed Hardwired Valves	EL138-2	3EPY4
Override Switch	EL141A	3EPY5
Sensor Repair Kit, Urinal	EL1500	2XU24
Sensor Repair Kit, Toilet	EL1500-L	2XU25
Sensor Replacement Kit, Lavatory	EL1500-LL	3EPY6
Solenoid Shaft Assembly	EL163A	2VEA1 *
Solenoid Coil	EL165-2	3EPY7
Sensor Assembly	EL3500A	3EPY8

** Includes gasket, plunger, plunger spring, and solenoid shaft. † Includes spring, O-ring, plunger guide, solenoid valve seat, and valve piston assembly.*

Elongated Tankless Toilets

For Toilet Seats, see page 2758.

- White vitreous china

Tankless toilets draw on high-pressure water supplies to deliver forceful flushing in a single flush. They work with a flush valve (flushometer) sold separately, see Grainger.com that connects directly to wall or floor plumbing line. High-pressure flush reduces water use and reduces chance of clogs or backups. Tankless toilets have a louder flush, but refill faster and cleaner.

Wall-Mount with Top Spud and Back Outlet—Top spud works with exposed flush valve for unblocked access. Back outlet connects to wall waste line.

Wall-Mount with Back Spud and Back Outlet—Back spud works with a concealed flush valve to prevent tampering. Back outlet connects to wall waste line.

Floor-Mount with Top Spud & Bottom Outlet—Top spud connects to flushometer and has unblocked access during maintenance. Bottom outlet connects to floor waste line.

Wall-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Back Outlet Bowl—Flushometer sits atop rear rim of bowl for unblocked access. Top spud connects to the flush valve and back outlet connects to wall waste line.

Floor-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Bottom Outlet Bowl—Flushometer sits atop rear rim of bowl for unblocked access. Top spud connects to the flush valve and bottom outlet connects to floor waste line.

Toilet Bowl
20HK93

Toilet Kit
5NFL4

Toilet Product Type	Gal. per Flush	ADA Compliance	Brand and Series	Spud Connection Size	Rim Height	Rough-In	Mfr. Model	Item No.	
Wall-Mount with Top Spud & Back Outlet									
Bedpan Holding Toilet Bowl	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	2633101.020	**20HK94**	
	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	3352101.020	**20HK97**	*
Toilet Bowl	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	2257101.020	**20HK93**	
	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	3351101.020	**20HK96**	*
	1.28, 1.6	Yes	Am. Std. Afwall FloWise ADA Retrofit	1 ½ in	16 ⅛ in	Wall Hung	2294011EC.020	**1YHY6**	*
	1.6	Yes	Am. Std. Rapidway	1 ½ in	15 ½ in	Wall Hung	3445J101.020	**49JM58**	
Wall-Mount with Back Spud & Back Outlet									
Toilet Bowl	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	2634101.020	**20HK95**	
	1.1, 1.28, 1.6	Yes	Am. Std. Afwall Millennium FloWise	1 ½ in	15 in	Wall Hung	3353101.020	**20HK98**	*
	1.6	Yes	Am. Std. Rapidway	1 ½ in	15 ½ in	Wall Hung	3445L101.020	**49JM59**	
Floor-Mount with Top Spud & Bottom Outlet									
Bariatric Toilet Bowl	1.28, 1.6	Yes	Am. Std. Right Width FloWise ADA	1 ½ in	17 ⅛ in	10 in, 12 in	3641001.020	**4TMH7**	
Bedpan Holding Toilet Bowl	1.1, 1.28, 1.6	Yes	Am. Std. Madera FloWise	1 ½ in	16 ½ in	10 in, 12 in	3462001.020	**38R062**	*
Toilet Bowl	1.1, 1.28, 1.6	No	Am. Std. Madera FloWise	1 ½ in	15 in	10 in, 12 in	3451001.020	**1YHZ1**	*
	1.1, 1.28, 1.6	No	Am. Std. Madera FloWise	1 ½ in	15 in	10 in, 12 in	2234001.020	**1ZKZ4**	
	1.1, 1.28, 1.6	Yes	Am. Std. Madera FloWise	1 ½ in	16 ½ in	10 in, 12 in	3461001.020	**1YHZ2**	*
	1.1, 1.28, 1.6	Yes	Am. Std. Madera FloWise	1 ½ in	16 ½ in	10 in, 12 in	3043001.020	**1ZKZ3**	
Wall-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Back Outlet Bowl									
Flush Valve Toilet	1.1	Yes	Am. Std. Afwall Millennium FloWise	—	15 in	Wall Hung	2856111.020	**38UP32**	*
	1.1	Yes	Zurn One	—	15 in	5 ¼ in, 7 ¼ in, 9 ¼ in	Z5615.272.01.78.00	**46CD73**	
	1.1, 1.28, 1.6	Yes	Sloan Efficiency	—	17 in	11 ½ in	WETS2052.1201	**5NFL5**	†
	1.28	Yes	Sloan Efficiency	—	17 in	11 ½ in	WETS2050.1041	**5NFL4**	
	1.28	Yes	Zurn One	—	15 in	5 ¼ in, 7 ¼ in, 9 ¼ in	Z5616.213.00.00.00	**46CD75**	
Floor-Mount Tankless Toilet Kits with Flush Valve & Top Spud, Bottom Outlet Bowl									
Flush Valve Toilet	1.1	Yes	Am. Std. Madera FloWise	—	16 ½ in	10 in, 12 in	3461511.020	**38UP38**	*
	1.1, 1.28, 1.6	No	Sloan Efficiency	—	15 in	10 in, 12 in	WETS2002.1201	**5NFL3**	†
	1.28	Yes	Zurn One	—	15 in	10 in, 12 in	Z5655.213.00.00.00	**46CD80**	

** EverClean surface. † Double flush.*

Elongated Gravity Toilet Bowls and Tanks

- White vitreous china

Toilets draw water from their attached tank to supply a quieter, low-pressure flush in low-traffic settings (20 to 30 flushes per day). These fixtures rely on gravity to move water from the tank into the toilet bowl for flushing. Separate bowl-and-tank design allows components to be replaced individually during installation and maintenance.

Floor-Mount Toilet Bowls—Toilet bowls pair with a gravity tank to form a two-piece toilet. These fixtures fasten to the floor for stability and have mounting holes for attaching a tank.

Gravity Toilet Tanks—Tanks pair with a gravity-style bowl to form a two-piece toilet. These fixtures house the flushing mechanism and other working parts of the toilet. They have mounting holes for attaching a bowl and a cover for keeping dust and debris out of the tank.

Toilet Bowl
6NWD7

Gal. per Flush	ADA Compliance	Brand and Series	Spud Connection Size	Rim Height	Rough-In	Mfr. Model	Item No.
Floor-Mount Toilet Bowls							
1.0, 1.1, 1.6	No	Am. Std. H2Option Right Height	⅜ in	16 ½ in	12 in	3705216.020	**6NWD7**
1.28	Yes	Am. Std. Champion PRO	⅜ in	16 ½ in	12 in	3195A101.020	**16T992**
	Yes	Am. Std. Heritage VorMax	⅜ in	161 ½ in	12 in	3870A101.020	**45NC84**
1.28, 1.6	No	Gerber Viper	2 in	15 in	10 in, 12 in, 14 in	VP-21-552	**29VL32**
	Yes	Am. Std. Cadet PRO	⅜ in	16 ½ in	12 in	3517A101.020	**16T996**
	Yes	Gerber Viper Ergoheight	2 in	17 in	10 in, 12 in, 14 in	VP-21-528	**29VL25**
	Yes	Gerber Viper Ergoheight	2 in	17 in	10 in, 12 in, 14 in	VP-21-528	**29VL31**
1.6	No	Am. Std. Cadet PRO	⅜ in	15 in	12 in	3517C101.020	**16T997**
Floor-Mount Pressure-Assist Toilet Bowls with Back Outlet							
1.0, 1.1, 1.6	No	Gerber Ultra Flush	1 ½ in	15 in	4 ¼ in	GUF21374	**55CP67**

Gal. per Flush	Flush Handle	ADA Compliance	Brand and Series	Mfr. Model	Item No.	Shipping Qty.	
Toilet Tanks							
1.28	Left Hand Trip Lever	No	Gerber Avalanche	WS-28-890	**29VL13**	1	
	Left Hand Trip Lever	No	Gerber Viper	WS-28-590	**29VL30**	1	
	Left Hand Trip Lever	No	Gerber Viper	WS-28-590	**29VL36**	6	
	Left Hand Trip Lever	Yes	Am. Std. Cadet PRO	4188A104.020	**16T998**	1	*
	Left Hand Trip Lever	Yes	Am. Std. Cadet PRO	4188B104.020	**16U001**	1	
	Left Hand Trip Lever	Yes	Am. Std. Champion PRO	4225A104.020	**16T993**	1	*
	Left Hand Trip Lever	Yes	Am. Std. Heritage VorMax	4270A104.020	**45NC85**	1	*
	Right Hand Trip Lever	No	Am. Std. Cadet	4188A105.020	**16T999**	1	*
	Right Hand Trip Lever	Yes	Am. Std. Champion PRO	4225A105.020	**16T994**	1	*
1.6	Left Hand Trip Lever	No	Gerber Viper	VP-28-590	**29VL28**	1	
	Left Hand Trip Lever	No	Gerber Viper	VP-28-590	**29VL34**	6	

** Includes EZ-Install tools.*

Toilet Tank
Left Hand
Trip Lever
29VL13

Toilet Tank
Right Hand
Trip Lever
16T994

Toilet Bowl
Back Outlet
5NTW1

Toilet Tank
29VL39

American Standard | GERBER

Pressure-Assist Elongated Toilets and Tanks

- White vitreous china

Toilets provide a strong flush like tankless toilets without requiring a high-pressure water supply. They're typically used in high-traffic settings where water pressure is too low for a tankless toilet. These fixtures have a pressure vessel within their water tank that pressurizes air and releases it with the water for a high-powered flush.

Floor-Mount Toilet Bowls with Back Outlet—Back outlet fastens to the floor and has a back connection to a wall waste line.

Floor-Mount Toilet Bowls with Bottom Outlet—Bottom outlet fastens to the floor and has a bottom connection to a floor waste line.

Toilet Tanks—House the pressure vessel, flushing mechanism, and other working parts of the toilet. These fixtures have mounting holes for attaching to a pressure-assist toilet bowl. Cover keeps dust and debris out of the tank.

Gal. per Flush	Rough-In	ADA Compliance	Spud Connection Size	Rim Height	Brand and Series	Mfr. Model	Item No.	Shipping Qty.
Floor-Mount Toilet Bowls with Back Outlet								
1.1, 1.28, 1.6	10 in, 12 in	Yes	⅜ in	15 in	Am. Std. Yorkville	3701001.020	**5NTW2**	1
	10 in, 12 in	Yes	1 ½ in	16 ½ in	Am. Std. Yorkville Right Height	3703001.020	**5NTW1**	1
Floor-Mount Toilet Bowls with Bottom Outlet								
1.0	12 in	No	1 ½ in	15 in	Gerber Ultra Flush	GUF21372	**55DL88**	6
	12 in	Yes	1 ½ in	17 in	Gerber Ultra Flush	GUF21377	**55DL91**	6
1.1, 1.28, 1.6	12 in	No	⅜ in	15 in	Am. Std. Cadet FloWise Right Height	3481001.020	**4TMG9**	1
	12 in	Yes	⅜ in	16 ½ in	Am. Std. Cadet FloWise Right Height	3483001.020	**4TMG8**	1

Gal. per Flush	Flush Handle	ADA Compliance	Brand and Series	Mfr. Model	Item No.	Shipping Qty.
Toilet Tanks						
1.1	Left Hand Trip Lever	Yes	Am. Std. Yorkville Cadet	4142100.020	**4TMH1**	1
1.28	Left Hand Trip Lever	No	Gerber Ultra Flush	HE-28-380	**29VL09**	1
	Left Hand Trip Lever	No	Gerber Ultra Flush	HE-28-380	**29VL17**	6
1.6	Left Hand Trip Lever	No	Gerber Ultra Flush	28-380	**29VL39**	1
	Left Hand Trip Lever	No	Gerber Ultra Flush	28-380	**29VL40**	6

SLOAN. FLUSHMATE®

Flushmate System

52VG57

Pressurized flush eliminates double flush and clogs and saves water. Fewer moving parts extends service. If toilet tank includes a flush handle, Handle Replacement Kit 30KE38 is also required. Flush Cartridge 1ATP5 is a replacement part for most Flushmate systems.

Note: Flushmate system is not sold as a retrofit component for a gravity-fed toilet.

Intelli-Flush 2VRN9—Enables touchless, electronic sensor operation of existing Flushmate units to reduce the spread of bacteria and recurring odors. Include wall-mounted sensor, flush module, battery pack, batteries, override button, and chrome trim.

Item	For Use with Series	Mfr. Model	Item No.
Pressure Assist Flushing Systems			
Pressure Assist Flushing System	503 Series	M-101526-F31	**3ETV1**
	501-A Series, 501-B Series, F3B series	M-101526-F3B	**30KE37**
	503 Series, 504 Series	K-100101	**2VRN9**
	503 Series	M-101526-F31K	**52VG57**
	503 K-4404	M-101526-F32	**29FJ05**
	501-A Series, 501-B Series, F3B series	M-101526-F3BK	**39AP14**
Replacement Parts			
Flush Valve Cartridge	500 Series, 501 Series, 501-A Series, 501-B Series, 503 Series, 504 Series	C-100500-KIT	**1ATP5**
Anti-Siphon Valve	Flushmate	BU100505-KIT	**1ATP7**
Cartridge Removal Wrench	503 K-4404	ST100500	**15Z025**
Gasket	503 Series, 504 Series	E-205288	**15Z026**
Handle Assembly	503 Series	AP300503	**30KE38**

korky | Supplier Diversity | Fluidmaster | American Standard | DANCO | HydroClean | Kissler | db dearborn | HARVEY | Ferrico | ZURN | HERCULES | Oatey | MUELLER INDUSTRIES

Gravity Toilet Repair Parts and Toilet/Urinal Installation Parts

1APG7

6KVX9

Item	Brand	Mfr. Model	Item No.
A. Tank Levers			
Toilet Trip Lever	—	22UR91	**22UR91**
Classic Trip Lever	Korky	6050GR	**48UL46**
Euro Style Trip Lever	Fluidmaster	Pro 64	**1APJ9**
Right Hand, Trip Lever	Am. Std.	738494-0020A	**45A208**
Trip Lever	Am. Std.	738899-0020A	**45A205**
Trip Lever, Chrome	Am. Std.	738903-0020A	**45A203**
Trip Lever, Satin	Am. Std.	738995-2950A	**45A202**
Trip Lever Assembly, Metal	Am. Std.	738837-2950A	**45A217**
Trip Lever Assembly, Plastic	Am. Std.	047242-0200A	**45A210**
Euro Style Toilet Trip Lever, Euro Style	—	22UR90	**22UR90**
B. Flush Valves and Flush Valve Repair Parts			
Dual Flush Converter Kit	Danco	HYR270	**4NWC9**
Flush Valve, Black, for Lexington Tanks	Am. Std.	047250-0070A	**6NWT4**
Flush Valve, Bolted, for Champion 4	Am. Std.	3280.040-0070A	**6NWT6**
Flush Valve, White, for Cadet 3	Am. Std.	738921-100.0070A	**6NWU5**
Flush Valve Gasketfor Champion 4	Am. Std.	7301111-0070A	**6NWT8**
Plastic Dual Flush Valve, Toilet	Am. Std.	7381091-400.0070A	**20XU42**
C. Fill Valves			
Antisiphon w/Leak Sentry	Fluidmaster	400LSG	**1TLZ4**
Fill Valve, Anti-Siphon	Fluidmaster	400A	**1APG7**
Fill Valve w/Brass Shank	Fluidmaster	Pro 45B	**1APJ4**
Fill Valve w/Calibration to Reduce Water Usage	HydroClean	HC550	**4NWC5**
Fill Valve w/Cleaning Tube, Calibration to Reduce Water Usage and Leak Alarm	HydroClean	HC660	**4NWC7**
PRO GRADE Fill Valve Fits 1.28, 1.6 & 3.5 GPF Toilets	Korky	528PRO	**48H472**
QuietFill Fill Valve	Korky	528	**15W944**
Ultraquiet Operation	Fluidmaster	Pro 45	**1APJ1**
WaterWi$e Leak Detecting Fill Valve	Korky	528Z	**4KTF7** *
D. Flappers and Seals			
3 in Universal Fit (Repl. All 3 in Flappers), Fits All Brands, Red Chlorine Resistant Rubber	Korky	3060BP	**6KVX9**
Blended Vinyl, Chlorine Resistant, Red, Most Toilets	Fluidmaster	Pro 54	**1APJ5**
Blended Vinyl, Chlorine Resistant, Red, w/Adjustable Float	Fluidmaster	Pro 55	**1APJ6**
EasyFix Flush Valve Repair Kit, Incl. Premium Flapper, Repl. Flush Valve Seat & Silicone Sealant	Korky	2003BP	**34D330**
Red Chlorine Resistant Rubber, Fits Older Style Brass Flush Valves	Korky	2000BP	**34D328**
Rubber, Black, Universal Fit	Korky	54BP	**2XLC8**

** Valves help protect against flapper leaks and hang-ups. † 1RLU5 has a flow adjustment screw to regulate or shut off hot water flow.*

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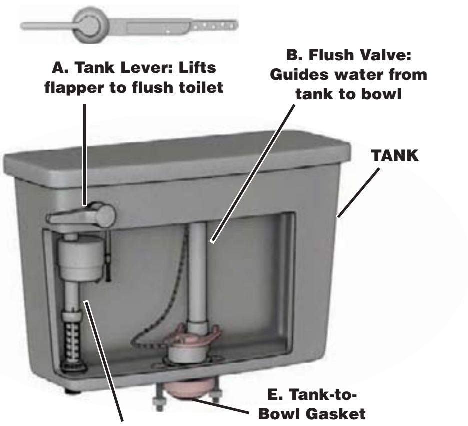
Gravity Toilet Repair Parts and Toilet/Urinal Installation Parts

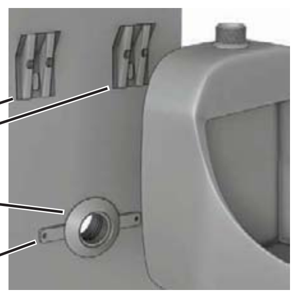
Item	Brand	Mfr. Model	Item No.
D. Flappers and Seals (Cont.)			
Toilet Flapper, Adjustable, ABS Blue	—	22UR93	**22UR93**
Toilet Flapper, Adjustable, Black	—	22UR87	**22UR87**
Toilet Flapper, PVC	—	22UR86	**22UR86**
Toilet Flapper, Rubber Black	—	22UR92	**22UR92**
Universal Fit, Adjusts for 1.28, 1.6 & 3.5+ gpf Toilets, Fits All Brands, Red Chlorine Resistant Rubber	Korky	100BP	**48H473**
Universal Fit, Red Chlorine Resistant Rubber	Korky	2001X	**2XLC9**
Universal Fit, Red Chlorine Resistant Rubber, Pack of 3	Korky	2001TP	**6KVX7**
Universal Flapper and Chain with Float	Am. Std.	7381129-200.0070A	**45A204**
Universal w/Adjustable Float, Red Chlorine Resistant Rubber	Korky	2004BP	**2XLD2**
3 in Universal, Flush Valve Seal Kit, Red Chlorine Resistant Rubber, Fits Kohler Class Five & Six, American Standard Champion 3, American Standard Seal; 738651-0070A & Kohler seal; GP1059291	Korky	435BP	**34D325**
Genuine Toto Flapper by Korky, Replaces all 3 in Toto Flappers	Korky	2023BP	**38UF95**
Fits American Standard Cadet 3 in Flapper, Red Chlorine Resistant Rubber	Korky	3040BP	**2XLD3**
Fits American Standard Champion 4 Flush Valve Seal, Eljer & Titan 4, Red Chlorine Resistant Rubber	Korky	450BP	**6KVY4**
Fits Mansfield 210/211 Flush Valve Seal	Korky	427BP	**48H475**
Flapper for Cadet 3, White	Am. Std.	738920-0070A	**6NWU4**
Silicone Toilet Flapper, Toilet	Am. Std.	7381008-400.0070A	**20XU61**
E. Tank to Bowl Gaskets and Hardware			
Rubber Tank to Bowl Gasket, Toilet	Am. Std.	034602-0070A	**20XU57**
Closed Couple Tank Kit for Champion 4	Am. Std.	738756-0070A	**6NWU0**
Tank-Bowl Coupling Kit for Cadet 3	Am. Std.	7301021-0070A	**6NWT7**
Tank to Bowl Kit	—	22UR82	**22UR82**
Tank to Bowl Kit	—	22UR83	**22UR83**
2 in Tank to Bowl Gasket & Hardware Kit	Korky	464BP	**29VM27**
3 in Tank to Bowl Gasket & Hardware Kit	Korky	481BP	**29VM28**
F. Spuds			
Brass and Rubber Urinal Spud, 1¼ x ¾ in	—	SP-1275	**5LXZ0**
Brass Reducing Urinal/Toilet Spud, 1 x ¾ in	Am. Std.	047003-0070A	**4THJ5**
Brass and Rubber Toilet Spud, 2 in x 1½ in	—	SP-250	**5LXZ4**
Reducing Spud, Fits 1 in x ¾ in Urinal and Toilet	—	22UR68	**22UR68**
Brass Toilet Spud, 1¼ x 1¼ in	Am. Std.	047005-0070A	**4THJ6**
Brass Toilet Spud, 1½ x 1½ in	Am. Std.	047007-0070A	**4THJ7**
Spud Gasket, Toilet, 1¼ in	—	22UR75	**22UR75**
Spud Gasket, Toilet, 1½ in	—	22UR73	**22UR73**
Spud Gasket, Toilet, 1¾ in	—	22UR74	**22UR74**
Toilet Spud, 1¼ in	—	22UR72	**22UR72**
Toilet Spud, 1½ in	Kissler	57-0520	**23YV78**
Toilet Spud, 1½ x 1½ in	Dearborn Brass	4028	**20JX51**
Toilet Spud, Fits 1½ in x 1½ in Toilet	—	22UR67	**22UR67**
G. Toilet to Floor Seals			
Reinforced Wax Ring, No-Seep No. 3 w/Polyethylene Flange and Bolt Set	Harvey	004309	**5PA59**
Wax-Free Seal Kit, Universal Toilet to Floor; Wax Alternative With Hardware	Korky	6000BP	**38UF93**
Wax Ring	—	22UR76	**22UR76**
Wax Ring, Fits 3 in and 4 in Waste Lines	—	22UR70	**22UR70**
Wax Ring Kit, Fits 3 in and 4 in Waste Lines	—	22UR71	**22UR71**
Wax Ring Kit, w/Flange Kit	—	22UR77	**22UR77**
G. Toilet to Floor or Wall Seals			
Wax Free Toilet Seal for 4 in Waste Lines	Fernco	FTS-4	**2ZU24**
Wax Ring, Bol-Wax No. 5 Reinforced Wax Gasket, Wall or Floormount Bowls	Harvey	011003	**2WY63**
G. Toilet to Wall Seals			
Expanded Closed Seal Neoprene Gasket, for Wall Mount Toilets	Zurn	Z1200-NEOSEAL-GSKT-4	**41H972**
H. Urinal Seals			
Sponge Rubber Urinal Gaskets, 3 in O.D. x 2⅛ in I.D. x ⅜ in Thick, Pkg. of 6	Harvey	070093	**2VRN6**
Wax-Free Seal, Fits 3 in OD Urinals	—	22UR66	**22UR66**
Wax Ring, Bol-Wax No. 6 Reinforced Urinal Gasket	Harvey	011308	**2WY62**
Wax Ring, Fits 2 in Outlet	—	22UR69	**22UR69**
I. Bowl to Floor Hardware			
Johni-Bolt XL ¼ x 3½ in	Hercules	90154C	**5NRX2**
Johni-Bolt XL 5/16 x 3½ in	Hercules	90174C	**5NRX1**
Toilet to Floor or Toilet Flange Bolt Set, ¼ x 2¼ in	—	22UR78	**22UR78**
Toilet to Floor or Toilet Flange Bolt Set, 5/16 x 2¼ in	—	22UR79	**22UR79**
J. Flanges			
3 or 4 in Easy Tap Closet Flange, PVC, w/Stainless Steel Ring	Oatey	43553	**4KMN8**
Toilet Flange, 4 in x 3 in, Plastic, for Mueller Brand	Mueller Industries	02903	**3GUM7**
PVC Twist-N-Set Closet Flange for 3 in Waste Lines	Oatey	43654	**3NWX2**
PVC Twist-N-Set Closet Flange for 4 in Waste Lines	Oatey	43651	**1VNH8**
K. Miscellaneous Toilet/Urinal Repair Parts and Accessories			
Cap Nuts and Washers	Zurn	P1203-FINISHTRIM	**5WYG9**
Conical Sponge Washer for Urinals	Am. Std.	034638-0070A	**3KTE1**
K-2 Wall Hanger Mounting Brackets for American Standard Urinals	Am. Std.	047058-0070A	**3KTE2**
Toilet Tank Antisweat Valve, Brass, 3-Way Installation (½ in Thread, ½ in Solder ⅝ in O.D., ½ in Comp. ⅝ in O.D.)	—	109-503	**1RLU5** †
Beehive Strainer Assembly for Urinals	Am. Std.	047517-0020A	**4TMJ2**
Toilet Stabilizing Shims, Pkg. of 8	Kissler	757-5105	**4EEV6**
Urinal Strainer for Washbrook	Am. Std.	047068-0070A	**6NWR8**
Water Control Valve	Am. Std.	047136-0070A	**45A207**
Bowl Caps	—	22UR80	**22UR80**
Bolt Cap Kit, Cover, White	Am. Std.	034783-0200A	**6NWR7**
Bolt Cap Kit, Toilet	Am. Std.	7381251-200.0200A	**20XU38**
Metal Tank Cover Locking Device, Toilet	Am. Std.	603111-0030A	**20XU58**
Toilet Seat Hardware	—	22UR81	**22UR81**
Gravity Toilet Repair Kits			
Flush Valve Kit, Fits Most Toilets	—	22UR89	**22UR89**
Flush Valve Kit, Incl. Adj. Flush Valve, Premium 3 in Adj. Flapper, Tank-to-Bowl Gasket & Hardware	Korky	5030BP	**48H476**
Flush Valve Kit, Incl. Adj. Flush Valve, Premium Flapper, Tank-To-Bowl Gasket & Hardware	Korky	4030PK	**34D326**
Flush Valve Kit w/Adjustable Flapper, Bolts, Gaskets	Fluidmaster	Pro 57K	**1APJ8**
Flush Valve w/Adjustable Flapper	Fluidmaster	Pro 57	**1APJ7**
Fill Valve w/Adjustable Flapper	Fluidmaster	Pro 45C	**1APJ2**
QuietFill Fill Valve and Premium Flapper	Korky	818GR	**15W943**
WaterWi$e Leak Detecting Fill Valve and Premium Flapper	Korky	818Z	**4KTF8** *
Incl. Fill Valve, Flapper, Flush Valve, Bowl Gasket, Hardware	Korky	4010PK	**6KVX8**
Incl. Fill Valve, Flush Valve, Bowl Gasket, Bolts, Tank Lever	Fluidmaster	Pro 45K	**1APJ3**

** Valves help protect against flapper leaks and hang-ups. † 1RLU5 has a flow adjustment screw to regulate or shut off hot water flow.*

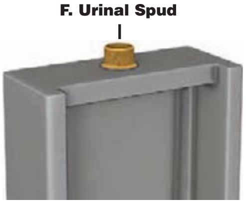
D. Flappers & Seals: Releases water into the bowl (common styles)



URINAL



F. Urinal Spud



F. Toilet Spud

2P888

23PD06

2P893

Toilet Seats

Bolt onto a toilet bowl and can be lifted on their hinges for cleaning and full access to the bowl. Oval or circular rings should match the bowl shape to keep the seat stable. Use seats on new installs or for replacement.

Standard Elongated—Elongated (oval) seats are about 2" longer from back to front than standard round bowls.

Standard Round—Fit round toilet bowls and are generally more comfortable for smaller users.

Elongated Lift—Taller than standard elongated seats to make it easier for people to lower and lift themselves off toilet. Assists people with mobility issues.

Child—Smaller seats and typically found in schools, pediatric hospitals, and daycare facilities.

Elongated Safety-Arm—Elongated (oval) seats with support arms for people to lift or lower themselves when using the toilet. Arms attach to underside of seat and extend from sides to provide grab bars for lifting and balance. Used in rehab facilities, hospitals, nursing homes, and senior-living centers.

Round Lift—Taller than standard round seats to help people get on and off the toilet. Designed to assist people with mobility issues.

Oversized Toilet Seats for Round or Elongated Bowls—Universal fit with a higher weight capacity to support heavy users. The wider-than-standard surface area fits any bowl shape. Commonly used on toilets for bariatric patients in hospitals and medical facilities.

Color	Hinge Material*	Hinge Design	Seat Height	Overall Width	Bolt to Seat Front	Features	ADA Compliance	Brand	Item No.
Standard Elongated									
Closed Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	1 ¾ in	14 in	18 ⅞ in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ7**
White	Plastic	External Check Hinge	1 ¾ in	14 in	18 ⅞ in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ8†**
White	Plastic	External Check Hinge	1 ⅞ in	14 ¼ in	18 29/32 in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTK1**
White	Plastic	External Check Hinge	1 ⅝ in	13 15/16 in	18 ⅝ in	350 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**23PD07**
White	Plastic	External Check Hinge	2 in	14 ⅛ in	18 ⅞ in	300 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Bemis	**46W156**
White	Plastic	External Check Hinge	2 3/16 in	14 in	18 ¾ in	500 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**2P890**
White	Plastic	Slow Close Hinge	1 15/16 in	14 in	18 ⅝ in	500 lb Cap., High Traffic, STA-TITE Bolts	Yes	Bemis	**23PD09**
White	Plastic	Slow Close Hinge	2 ⅛ in	14 ⅞ in	18 ¾ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**20G112**
White	Plastic	Slow Close Hinge	2 ¼ in	14 in	18 9/16 in	Adjustable Hinge and Super Grip Bumpers, Easy to Clean, Precision Seat Fit	Yes	Bemis	**54YE34**
White	Plastic w/ S.S. Posts	External Check Hinge	1 15/16 in	14 1/16 in	18 15/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**26X099**
White	Plastic w/ S.S. Posts	External Check Hinge	2 ¼ in	14 in	18 ¾ in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV30**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 in	18 ½ in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**21R415**
White	S.S.	External Check Hinge	1 15/16 in	14 ¾ in	19 in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE7**
White	S.S.	Self-Sustaining Check Hinge	1 15/16 in	14 ¾ in	19 in	300 lb Cap., Antimicrobial, Fire Retardant, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTF3**
White	S.S.	Slow Close Hinge	2 in	14 ¼ in	18 in	500 lb Cap., Antimicrobial, Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Sanitary Seat Lift Tab, Std. Bolts	No	Amer. Std.	**45A196**
Open Front, Includes Cover: No									
Black	Plastic w/ S.S. Posts	External Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**2P889**
Black	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**46W158**
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**2P888**
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV25**
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅝ in	14 5/16 in	18 7/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**29JU46**
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., Antimicrobial, Fire Retardant, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**6MPR4**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	1 ½ in	14 ⅜ in	18 1/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Bemis	**46W159**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**46W155**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 ⅝ in	14 5/16 in	18 7/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**29JU47**
White	Plastic w/ S.S. Posts	Self-Sustaining Check Hinge	2 ⅜ in	14 ¼ in	18 9/16 in	500 lb Cap., Antimicrobial, Fire Retardant, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**6MPR5**
White	S.S.	External Check Hinge	1 in	14 ⅝ in	18 ⅝ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**19RT10**
White	S.S.	External Check Hinge	1 in	14 ⅜ in	17 ⅞ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**29TJ04**
White	S.S.	External Check Hinge	1 in	14 ⅜ in	18 9/16 in	500 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Amer. Std.	**4TMH8**
White	S.S.	Self-Sustaining Check Hinge	2 ⅜ in	14 ⅜ in	18 9/16 in	500 lb Cap., Easy to Remove Seat, High Traffic, Non-Corrosive Posts, Std. Bolts	No	Amer. Std.	**49JM37**
Open Front, Includes Cover: Yes									
White	Plastic w/ S.S. Posts	External Check Hinge	2 ¼ in	14 in	18 9/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV29**
White	S.S.	External Check Hinge	1 15/16 in	14 ¾ in	18 ⅝ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE9**
Standard Round									
Closed Front, Includes Cover: Yes									
White	Plastic	External Check Hinge	1 ¾ in	14 ⅜ in	16 ¼ in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ9**
White	Plastic	External Check Hinge	1 ⅝ in	14 3/16 in	16 11/16 in	350 lb Cap., High Traffic, Std. Bolts	Yes	Bemis	**23PD06**
White	Plastic	External Check Hinge	2 in	14 ⅜ in	16 ⅞ in	300 lb Cap., Easy to Remove Seat, High Traffic, Std. Bolts	Yes	Bemis	**45ND60**
White	Plastic	Lift-Off Hinge	1 ⅞ in	14 ⅛ in	16 ⅞ in	300 lb Cap., Low Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**4FTJ5**
White	Plastic	Slow Close Hinge	2 3/16 in	14 ⅜ in	16 13/16 in	Adjustable Hinge and Super Grip Bumpers , Easy to Clean, Precision Seat Fit	Yes	Bemis	**54YE35**
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 ¼ in	16 5/16 in	500 lb Cap., High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**2P886**
White	Plastic w/ S.S. Posts	External Check Hinge	2 3/16 in	14 ¼ in	16 5/16 in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV26**
Open Front, Includes Cover: Yes									
White	S.S.	External Check Hinge	1 15/16 in	14 ⅜ in	16 ¾ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	No	Centoco	**5XTE8**
Elongated Lift									
Closed Front, Includes Cover: No									
White	—	—	2 15/16 in	14 ½ in	19 ⅛ in	500 lb Cap., High Traffic, STA-TITE Bolts	Yes	Bemis	**5AV16**
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	2 in	19 ¼ in	18 9/16 in	300 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**2P892**
White	Plastic w/ S.S. Posts	External Check Hinge	4 5/16 in	14 ¼ in	18 9/16 in	300 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV17**
White	S.S.	External Check Hinge	2 3/16 in	14 ⅝ in	18 ⅝ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Centoco	**19RT15**
White	S.S.	External Check Hinge	3 ¼ in	14 ⅝ in	18 ⅝ in	300 lb Cap., High Traffic, Non-Corrosive Posts, Std. Bolts	Yes	Centoco	**19RT16**
Child									
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅛ in	13 7/16 in	15 ¼ in	500 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**5AV11**
Elongated Safety-Arm									
Open Front, Includes Cover: No									
White	Plastic w/ S.S. Posts	External Check Hinge	2 ⅝ in	14 5/16 in	18 7/16 in	250 lb Cap., Antimicrobial, High Traffic, Non-Corrosive Posts, STA-TITE Bolts	Yes	Bemis	**2P893**
Round Lift									
Closed Front, Includes Cover: No									
White	—	—	2 15/16 in	14 3/16 in	17 ⅛ in	500 lb Cap., High Traffic, STA-TITE Bolts	Yes	Bemis	**5AV15**
Oversized for Round or Elongated Bowls									
Open Front, Includes Cover: No									
White	S.S.	Slow Close Hinge	2 ½ in	14 in	17 5/32 in	1200 lb Cap., High Traffic, Std. Bolts	Yes	Big John	**39AP83**
White	S.S.	Slow Close Hinge	2 ½ in	19 3/16 in	20 1/16 in	1200 lb Cap., High Traffic, Std. Bolts	Yes	Big John	**12G706**

** S.S. = Stainless Steel. † Sold in package of 8.*

49JM66

2PPR4

2PPR5

34TE11

Urinals

- White vitreous china
- Flush valve sold separately, see Grainger.com

Wall-mount flush-valve urinals with top spud are off-the-floor fixtures that allow thorough cleaning, connect to a wall waste line, and work with an exposed flush valve for unblocked access during maintenance. These fixtures have a lower weight capacity than floor-mounted fixtures, but provide a streamlined look and full access for cleaning the floor and urinal surfaces. Includes back opening for waste line and a spud atop the fixture for connecting to a flush valve (flushometer). Meet all ANSI and ASME water conservation requirements.

Gal. Per Flush	ADA Compliance	Spud Connection Size	Brand and Series	Mfr. Model	Item No.	Shipping Qty.
Washout Urinal						
0.1, 0.125, 0.5	No	¾ in	Amer. Std. Maybrook	6581001EC.020	**45NC88** *†	1
0.1, 0.125, 0.5	Yes	¾ in	Amer. Std. Washbrook FloWise	6590001.020	**16U006** *	1
0.1, 0.125, 0.5	Yes	¾ in	Amer. Std. Washbrook FloWise	6590001EC.020	**45NC87** *†	1
0.1, 0.125, 0.5	Yes	¾ in	Amer. Std. Washbrook FloWise	6590001PL.020	**15W678** *	6
0.125	Yes	¾ in	Amer. Std. Decorum	6042001EC.020	**49JM66** *	1
0.125, 0.5	Yes	¾ in	Amer. Std. Pintbrook	6002001.020	**52WU81** *	1
1.0	Yes	1 ¼ in	Amer. Std. Lynbrook	6601012.020	**5NTV9**	1
Washout Urinal with Automatic Flush Valve						
0.125	Yes	¾ in	Sloan	WEUS1000.1401	**2PPR4** *	1
0.125	Yes	¾ in	Zurn	Z5755.205.00	**45NC89** *	1
0.25	Yes	¾ in	Sloan ECOS	WEUS1002.1401	**5NFL2** *	1
Washout Urinal with Manual Flush Valve						
0.125	Yes	¾ in	Sloan	WEUS1000.1001	**2PPR5** *	1
0.125	Yes	¾ in	Amer. Std. Washbrook FloWise	6590503.020	**38UP27** *	1
0.25	Yes	¾ in	Sloan Royal	WEUS1002.1001	**5NFL0** *	1
Siphon Jet Urinal						
0.125	No	¾ in	Zurn	Z5755-U	**34TE11** *	1
0.5, 1.0	Yes	¾ in	Amer. Std. Allbrook	6550001.020	**38W399**	1
1.0	Yes	¾ in	Amer. Std. Trimbrook	6561017.020	**1ZKZ1**	1

** WaterSense Certified. † Ultrahigh efficiency.*

44Z635

4FB39

Wall-Mount Waterless Urinals

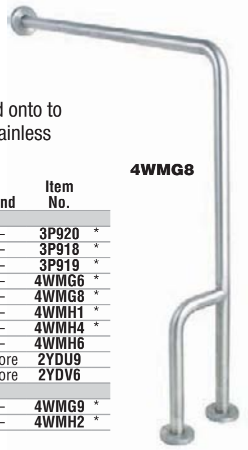
Conserve water by eliminating liquid waste without flushing. They connect to a wall waste line and rely on gravity to direct urine into the drain, so there's no need for a flushing mechanism. These water-free urinals use a trap or cartridge with a layer of sealant that blocks odors from rising out of a waste line while allowing urine to pass through. Use to reduce water consumption in dry climates and other areas where water is scarce. WaterSense Certified.

Urinal Material	ADA Compliance	Brand and Series	Mfr. Model	Item No.
Waterless Urinal				
High Performance Composite/Fiberglass	No	Waterless Sonora	2004	**2VRW4**
	Yes	Waterless Anza	2005	**23PC28**
	Yes	Waterless Del Casa	2902	**23PC29**
	Yes	Waterless Sonora	2004B	**23PC27**
Vitreous China	Yes	Sloan	WES1000	**4FB38**
	Yes	Waterless Baja	2104	**44Z635**

Item	Brand	Item No.
Waterless Urinal Cleaners and Accessories		
Cleaner Cartridge Green Clean Liquid Concentrate	Sloan	**3ETX5**
Cleaner Cartridge Includes: Cartridge Key, Disposal Bag, Protective Glove, Sealant Package	Sloan	**4FB39**
Measuring Cup	Waterless	**2VRW5**
Trap Insert	Waterless	**2VRW2**
Trap Insert Includes: (2) 16 oz Bottles Odor Barrier Liquid, (2) Drain Inserts, (2) Insert Removal Tools	Amer. Std.	**4TMG6**
Trap Insert Removal Tool	Waterless	**2VRW3**
Urinal Cleaner 1 qt	Waterless	**6XKC5**
Urinal Cleaner Includes: 1 Kit Is Good For Up To 5 Urinal Start-Ups, BlueSeal Liquid, EcoTrap Tool And Measuring Cup	Waterless	**2VRW7**
Urinal Cleaner Includes: 32 oz Bottle, Green Clean Concentrate, Trigger Sprayer	Sloan	**3ETX4**
Urinal Flange Kit Required for all new construction	Waterless	**6XKC4**
Waterless Urinal Sealant, 1 qt	Waterless	**2VRW1**

Specialty Grab Bars

Mount to walls to offer a fixed rod that people can hold onto to maintain their balance and lower or lift themselves. Stainless steel with stainless steel mounting hardware.



4WMG8

Description	Dia.	Brand	Item No.
Smooth Surface			
18 in Straight Grab Bar, Exposed Screws	1 ½ in	—	**3P920** *
24 in Straight Grab Bar, Exposed Screws	1 ½ in	—	**3P918** *
32 in Straight Grab Bar, Exposed Screws	1 ½ in	—	**3P919** *
12 in x 12 in Boomerang Grab Bar	1 ½ in	—	**4WMG6** *
30 in L x 5 in W x 33 in H Floor-to-Wall, Right Hand	1 ½ in	—	**4WMG8** *
30 in L x 5 in W x 33 in H Floor-to-Wall, Left Hand	1 ½ in	—	**4WMH1** *
30 in L x 24 in W x 33 in H Wheelchair Toilet Bar	1 ½ in	—	**4WMH4** *
30 in L x 6 in W x 8 in H Tilt-Up Safety Arm	1 ¼ in	—	**4WMH6**
30 in L Straight Grab Bar	1 ½ in	Encore	**2YDU9**
L-Shaped 30 in L x 30 in W	1 ½ in	Encore	**2YDV6**
Textured Surface			
Floor-to-Wall, Right Hand 30 in L x 5 in W x 33 in H	1 ½ in	—	**4WMG9** *
Floor-to-Wall, Left Hand 30 in L x 5 in W x 33 in H	1 ½ in	—	**4WMH2** *

** Meets ADA requirements when properly installed.*

Grab Bars

Bars help provide a better grip for improved safety. Stainless steel with mounting hardware and concealed screws.

6RGG4

Type	Finish	Weight Cap.	Brand	Length 16" Item No.	18" Item No.	12" Item No.	24" Item No.	36" Item No.	42" Item No.	45" Item No.	48" Item No.
1¼ in Dia.											
Contemporary	Polished	800 lb.*	WingIt	—	**19D080**	—	**19D081**	**19D082**	**19D083**	—	**19D084**
Contemporary	Satin	800 lb.*	WingIt	—	**19D074**	—	**19D075**	**19D076**	**19D077**	—	**19D078**
Peened	Satin	800 lb.*	WingIt	—	—	—	—	—	**34CE97**	—	—
Smooth	Satin	800 lb.*	WingIt	—	**6RGG4**	—	**6RGJ5**	**6RGJ6**	**6RGJ7**	—	—
1½ in Dia.											
Concealed Wall Mount	Satin	1,000 lb.	Bradley	—	—	—	—	**29RU58**	—	**29RU59**	—
Knurled	Stainless Steel	250 lb.	Encore	—	**4TLJ8**	—	—	—	—	—	—
Polyester Painted	Poly Painted	800 lb.*	WingIt	—	**6RGH4**	**6RGH3**	**6RGH5**	**6RGH6**	**6RGH7**	—	—
Smooth	Satin	800 lb.*	WingIt	—	**6RGG5**	—	**6RGG6**	**6RGG7**	**6RGG8**	—	—
Smooth w/SANIGUARD Product Protection	Stainless Steel	250 lb.	Encore	**4TLJ4**	**2YDU7**	**4TLJ5**	**2YDU8**	**2YDV1**	**2YDV3**	—	**2YDV5**
Textured w/ SANIGUARD Product Protection	Stainless Steel	250 lb.	Encore	**4TLJ7**	—	**4TLJ6**	**4TLJ9**	—	**2YDV4**	—	—

** 800-lb. weight capacity when installed using WingIts Grab Bar Fastener, 6UTC7 (4 in L) sold separately on page 2169.*

4EEX4

Restroom Accessories

Bar Length	Material*	Finish†	Overall Height	Overall Depth	Overall Length	Brand	Item No.
Towel Bar							
18 in	S.S.	PC	1 5/6 in	3 3⁄16 in	20 ¼ in	Taymor	**10G184**
	Zamac	PC	2 ⅛ in	3 ⅛ in	21 in	—	**15F406**
24 in	S.S.	PC	1 5/6 in	3 3⁄16 in	26 ¼ in	Taymor	**10G185**
	Zamac	PC	2 ⅛ in	3 ⅛ in	27 in	—	**15F407**
	Zamac	PC	2 ¾ in	3 ⅜ in	26 ¾ in	—	**15F397**
	Zamac	PC	2 11⁄16 in	3 ⅛ in	26 ¼ in	Taymor	**10G192**
	Zamac	SN	2 ¾ in	3 ⅜ in	26 ¾ in	—	**15F402**

Material of Construc.	Fastener Type	H	W	Thickness	Item No.
Approved Vendor, Folding Shelf					
Zamac	Theft Resistant	5 ⅜ in	15 ½ in	3 ½ in	**4WMJ7**

Material	Finish†	Ring Height	Ring Width	Overall Height	Overall Depth	Item No.
Approved Vendor, Towel Ring						
Zamac	PC	6 in	6 in	6 ⅜ in	1 ¾ in	**15F405**

Material*	Finish†	H	W	D	Item No.
Approved Vendor, Soap Dish					
S.S.	—	2 ¼ in	5 in	3 in	**1ECN7**
Metal	C	1 ½ in	3 ⅞ in	3 ⅛ in	**2VAL8**
Approved Vendor, Toilet Paper Holder, (1) Roll Capacity					
Zamac	Polished	2 ¾ in	7 ⅝ in	3 ⅜ in	**15F409**
	Polished	2 ⅝ in	7 ⅛ in	3 ⅛ in	**15F411**
	S	2 ½ in	9 in	3 ¼ in	**15F408**
Bradley, Framed Mirror					
Clear Acrylic, S.S.	S	7 in	7 in	3 15⁄16 in	**23MU62**
S.S.	S	5 in	7 in	2¾ in	**23MU61**
Steel and Glass	B, SS	36 in	18 in	¾ in	**29RU66**
See-All, Dual-Sided Wall Mirror					
Metal	C	13 in	11 in	3 in	**30AC28**

Material*	Finish†	Overall Height	Overall Depth	Brand	Item No.
Hooks					
Bathroom Hook					
S.S.	S	1 ⅞ in	2 in	—	**4WMK8**
Metal	C	1 ½ in	1 ½ in	—	**2VAL4**
S.S.	S	3 ¾ in	1 1⁄16 in	Bradley	**1GYA7**
	S	3 in	3 ¼ in	—	**1ECN4**
	S	3 in	3 ¼ in	—	**1ECL8**
Zamac	C	1 ½ in	2 in	—	**4WMK7**
	PC	1 ½ in	1 ½ in	Taymor	**10G182**
	PC	1 ½ in	2 ¼ in	Taymor	**10G183**
	PC	2 ¾ in	2⅜ in	—	**15F394**
	SN	2 ¾ in	2 ⅜ in	—	**15F398**
Zinc	CP	5 5⁄32 in	2 3⁄16 in	—	**5XTE1**
Coat Hook and Bumper					
Zamak	CP	—	—	—	**1ECL2**
Collapsible Hook					
S.S.	S	4 ⅓ in	1 ½ in Collapsed, 3 in Extended, 3 in Extended	—	**1ECL9**
Hook					
S.S.	S	6 in	2 in	—	**4WMK9**
	S	9⅛ in	3 1⁄16 in x 26 in L	—	**1ECL3**
Security Hook					
S.S.	S	4 ¼ in	2 ⅝ in Extended, 2 ⅛ in Collapsed, 2 ⅝ in Extended	—	**1ECN1**

Material*	Finish†	Overall Height	Overall Depth	Brand	Item No.
Shelves					
Towel Shelf					
S.S.	B	9 ¼ in	7 ⅞ in	—	**4EEX4**
Zamac	PC	6 ½ in	8 ½ in	Taymor	**10G186**
Utility Shelf					
S.S.	S	4 ⅛ in	5 in	—	**1ECL6**
	S	4 ⅛ in	5 in	—	**4WMK4**
	S	4 ⅛ in	4 ⅞ in	—	**4WMK5**
S.S.	S	4 ⅛ in	5 in	—	**1ECN6**
	S	2 in	6 ¼ in	—	**1ECN5**
Utility Shelf with Backsplash					
S.S.	S	8 ⅛ in	5 in	—	**4WMJ8**
	S	8 ⅛ in	5 in	—	**4WMJ9**
Utility Shelf with Mop Holders					
S.S.	S	6 ⅛ in	9 ⅛ in	—	**1ECL7**

** S.S. = Stainless Steel. † B = Bright, BN = Brushed Nickel, C = Chrome, CP = Chrome Plated, PC = Polished Chrome, S = Satin, SN = Satin Nickel.*

Prison and Ligature-Resistant Toilet and Sink Combination Units

49T884

- For institutional showerheads, go to Grainger.com

Ligature-resistant sinks, toilets, and urinals withstand damage and prevent vandalism, abuse, or potential for self-harm or suicide in correctional and mental health facilities where antiligature or security products are needed. Sinks have push-button controls that provide hot and cold water at 0.5 gpm, and a penal bubbler. Metering valves can be set for 5- to 60-sec. operation and cannot be held open. These specialized toilets and urinals include enclosed flush valves, so they can't be used to tie off cords or fabric strips.

Gal. per Flush	Rough-In	Rim Height	ADA Compliance	Flush Valve Location	Spud Connection Size	Brand	Item No.
Prison Toilet, Elongated							
Floor Mount							
1.28, 1.6, 3.5	4 ½ in	16 in	Yes	Exposed	1 ½ in	Acorn	**49T884**
1.6	4 ¼ in	18 in	Yes	Concealed	1 ½ in	Acorn	**5ZXF7**
1.28, 1.6, 3.5	10 in	16½ in	Yes	Concealed	1 ¼ in	Acorn	**49T885**
1.28, 1.6, 3.5	10 in	16½ in	Yes	Exposed	1 ½ in	Acorn	**49T886**
1.28, 1.6, 3.5	10 in	17 in	Yes	Concealed	1 ¼ in	Acorn	**49T887**
1.6	12 in	15 in	No	Concealed	1 ½ in	Acorn	**1JZL5**
Wall Mount							
1.28, 1.6, 3.5	4 in	16½ in	Yes	Exposed	1 ½ in	Acorn	**49T882**
1.28, 1.6, 3.5	4 in	17 in	Yes	Concealed	1 ½ in	Acorn	**49T883**
1.6	12 in	—	Yes	Concealed	1 ½ in	Acorn	**1JZL4**
1.28, 1.6, 3.5	12 in	15 in	Yes	Concealed	1 ½ in	Acorn	**26CT94**
1.28, 1.6, 3.5	12 in	15 in	Yes	Exposed	1 ¼ in	Acorn	**26CT93**
Prison Toilet and Sink Combination Unit, Elongated							
Floor Mount							
1.6	12 in	15 in	No	Concealed	1 ½ in	Acorn	**1JZL9**
Ligature Resistant Toilet, Elongated							
Floor Mount							
1.6	12 in	15 in	No	Concealed	1 ½ in	Bestcare	**38C428**
1.28	12 in	15 in	No	Concealed	1 ½ in	Bestcare	**38C429**
1.28	12 in	18 in	Yes	Concealed	1 ½ in	Bestcare	**38VC64**

Flow Rate	ADA Compliant	Drain Opening	Bowl Size	Overall Width	Overall Length	Overall Height	ADA Compliance	Brand	Item No.
Lavatory Sink									
Wall Mount									
0.5 gpm	No	1 ½ in	14 ¾ in x 9 ½ in	12 ½ in	18 in	12 ¾ in	No	Acorn	**1JZL6**
0.5 gpm	Yes	1 ½ in	14 ¾ in x 9 ½ in	18 in	18 in	12 ¾ in	Yes	Acorn	**1JZL7**

1JZL6

Gal. per Flush	Flush Handle	ADA Compliance	Spud Connection Size	Brand and Series	Brand	Item No.
Prison & Ligature Resistant Urinals						
Washout Prison Urinal						
1 gpf, 1.5 gpf	Wall Button	No	¾ in	Acorn Dura-Ware	Acorn	**5RMD8**
1 gpf, 1.5 gpf	Wall Button	No	¾ in	Acorn Dura-Ware	Acorn	**5RMD9**
Washout Ligature Resistant Urinal						
0.125	Top Button	No	¾ in	Whitehall BestCare	Bestcare	**38C421**
Washout Ligature Resistant Urinal with Manual Flush Valve						
0.125	Top Button	Yes	¾ in	Whitehall BestCare	Bestcare	**49T906**
Waterless Ligature Resistant Urinal						
0	Not Included	No	¾ in	Whitehall BestCare	Bestcare	**38C422**

5RMD8

Series	Flush Valve Location	Gal. per Flush	Rough-In	Spud Coupling	Inlet Size	Flush Valve Design	Brand and Series	Item No.
Prison Flush Valves								
Royal	Concealed	1.6 gpf	20 ½ in	1 ½ in	1 in IPS	Diaphragm	Sloan Royal	**3ETX2**
Royal	Concealed	3.5 gpf	20 ½ in	1 ½ in	1 in IPS	Diaphragm	Sloan Royal	**3ETX1**

Description	L	W (in.)	H (in.)	Dia.	Brand	Item No.
Security Washroom Accessories, Stainless Steel						
Grab Bar	24 in	—	—	1 ½ in	Bradley	**1GYC4**
Grab Bar	36 in	—	—	1 ½ in	Bradley	**1GYC5**
Grab Bar	42 in	—	—	1 ½ in	Bradley	**1GYC6**
Security Framed Wall Mirror	—	11 ¼ in	17 ¼ in	—	Bradley	**1GYB8**
Toilet Paper Holder	—	7	7	—	Acorn	**5RME4**
Book Shelf w/Clothes Hooks	—	10 ½ in	10 ½ in	—	Acorn	**5RME1**
Clothes Hook Panel with 1 Hook	—	4 ¼ in	4 ¼ in	—	Acorn	**5RME3**
Clothes Hook Panel with 4 Hooks	—	5 ½ in	5 ½ in	—	Acorn	**5RME2**

1GYB8

Ligature Resistant Bathroom Faucets

38C415

Cone-spout faucets are shaped like a rounded triangle, or cone. Their shape makes it difficult to use the faucets as a ligature point or a point of self-harm, making them suitable for hospitals, prisons, and mental health settings. These dual-metering-handle two-hole centerset deck-mount faucets have two handles that users push down on to start the flow of water. Each handle is operated separately to control the hot and cold water supplies. Metering-handle faucets let users control the start of the flow of water but not the duration, as the water flow shuts off automatically. Chrome faucet finish.

Series	Faucet Body Material	Flow Rate	Flow Outlet Type	Spout Length	Spout Height	Item No.
WH3377	Brass	0.35 gpm	Spray	2 in	2 in	**455D06**
WH3374	Brass	0.7 gpm	Spray	2 in	2 in	**38C415**

Institutional Fixture Repair Parts

Mfr. Model	Description	Item No.
0112-002-001	Tamper Resistant Screws, 10-32 x ½ in, Pkg. of 10	2EVN1
0116-012-001	Screws, 8-32 x 1 ¼ in, Pkg. of 10	2EVN2
0296-020-000	Hex Wrench, 5/32 in	2EVN5
0302-003-001	Hex Nuts, 8-32, Pkg. of 10	2EVN7
0326-100-001	U-Key, Pkg. of 10	2EVN8
0401-129-001	O-Rings, 1 9/16 in x 1 ¾ in x 3/32 in, Pkg. of 10	2EVR1
0401-124-001	O-Rings, 1 ¼ in x 1 7/16 in x 3/32 in, Pkg. of 10	2EVP8
0401-117-001	O-Ring, 13/16 in x 1 in x 3/32 in, Pkg. of 10	3ZWN7
0401-026-001	O-Rings, 1 ¼ in x 1 3/8 in x 1/16 in, Pkg. of 10	2EVP6
0401-016-001	O-Rings, 5/8 in x ¾ in x 1/16 in, Pkg. of 10	2EVP5
0401-015-001	O-Rings, 9/16 in x 11/16 in x 1/16 in, Pkg. of 10	2EVP4
0401-014-001	O-Rings, ½ in x 5/8 in x 1/16 in, Pkg. of 10	2EVP3
0401-012-001	O-Rings, 3/8 in ID x ½ in OD x 1/16 in Thick, Pkg. of 10	2EVP2
0401-011-001	O-Rings, 5/16 in ID x 7/16 in OD x 1/16 in, Pkg. of 10	2EVP1
0401-007-001	O-Rings, 5/32 in x 9/32 in x 1/16 in, Pkg. of 10	2EVN9
0421-019-001	Gaskets, 1/8 in H x ¾ in Dia, Pkg. of 10	2EVR2
0431-023-001	Bonnet Gasket, 1/8 in H x 13/16 in Dia, Pkg. of 10	2EVR3
0469-005-000	Flow Control, 0.5 GPM	2EVR4
0715-060-001	Control Module	3ZWN8
1241-001-001	Shower Nozzle Assembly, Wall Mount	2EVR6
1244-002-001	Showerhead Assembly, Wall Mount	2EVR7
1895-451-001	Nylon Compression Nuts, 7/16 in - 20 UNFI, Pkg. of 10	2EVT2
1895-450-001	Nylon Compression Nuts, 5/16 in -24 UNFI, Pkg. of 10	2EVT1
1895-012-000	Nylon Male Connector, 1 ¼ in H x 15/16 in Dia	2EVR9
1895-002-000	Nylon Male Connector, ¼ in x ¼ in NPT	2EVR8
2153-010-199	Tubing, Red, 120 in	2EVT4
2155-010-199	Tubing, Blue, 120 in	2EVT5
2160-010-199	Tubing, Clear, 120 in	2EVT6
2195-010-000	SS Braided Supply Hose, ½ in NPS X 6 ¼ in	2EVT7
2260-001-011	Flo-Cloz Cartridge w/Chrome-Plated Stem, Plastic Seat	2EVU2
2260-001-002	Flo-Cloz Cartridge Top Assembly, Plastic Seat	2EVU1
2260-001-001	Flo-Cloz Cartridge Assembly, Plastic Seat	2EVT9
2280-000-199	Flo-Cloz Bonnet Cap, Brass	2EVU3
2292-003-199	Canopy Handle, Single Temp.	2EVL8
2302-020-001	Penal-Matic Cartridge Assembly	2EVU6
2302-000-002	Meter-Matic Cartridge Assembly	2EVU5
2302-000-001	Penal-Matic Cartridge Assembly, Fluid Metering	2EVU4
2304-001-001	Cartridge Assembly	2EVU8
2304-000-001	Penal-Trol Cartridge Assembly, Self-Closing	2EVU7
2312-003-001	Flow Control Assembly, Toilet and Lavatories	1KAA2
2315-000-001	Push Rod Adjusting Cup	2EVL9
2415-002-001	Compression Spring Assembly, Pkg. of 10	2EVX2
2415-000-001	Check Stop	2EVX1
2437-110-001	Extended Cartridge Assembly	3ZWP2
2437-100-001	Cartridge Assembly	3ZWP1
2437-001-001	Cartridge and Diaphragm Assembly	2EVX4
2437-000-001	Safti-Trol Cartridge Top Assembly	2EVX3
2560-015-001	Water Chamber Assembly	2EVX5
2563-305-002	Solenoid, 24V	3ZWP3
2563-130-002	Reset Valve	2EVZ6
2563-121-001	Diaphragm Assembly	2EVZ5
2563-108-001	Spring Assembly, Pkg. of 10	2EVZ4
2563-103-001	Diaphragm Assembly	2EVZ3
2563-100-002	Reset Valve	2EVZ2
2563-086-000	Gasket	2EVZ1
2563-081-001	Bonnet, Plastic	2EVY9
2563-080-001	Reset Valve	2EVY8
2563-024-000	Cover Plate, Delayed Acting	2EVY7
2563-023-001	Metering Air Diaphragm Springs, Pkg. of 10	2EVY6
2563-022-000	Metering Air Diaphragm	2EVY5
2563-021-001	Metering Magnet Cup Assembly	2EVY4
2563-020-002	Servomotor	1KAA5
2563-020-001	Metering Servomotor Assembly without Seat	2EVY3
2563-019-001	Servomotor Plate	2EVY1
2563-010-001	Diaphragm Assembly, and Lavatories	1KAA3
2563-004-001	Diaphragm Assembly	2EVX8
2563-002-199	Servomotor Cup	2EVX7
2563-000-002	Servomotor	2EVX6
2564-000-001	Metering Timer Assembly	2EVZ7
2566-310-012	Push Button Assembly, Hot and Cold	2EWA2
2566-302-008	Actuator Assembly Push-Button Diaphragm	3ZWP6
2566-055-199	Diaphragm Assembly Side Outlet	3ZWP5
2566-052-001	Push Button Assembly, Cold	2EWA1
2566-051-001	Push Button Assembly Hot	2EVZ9
2566-050-001	Push Button Assembly, Single Temp..	2EVZ8
2566-001-000	Diaphragm Assembly	3ZWP4
2570-105-001	Flow Control Elbow, Plastic	2EWC9
2570-061-000	Inside Cover, Plastic Valve	2EWC8
2570-045-001	Single Temperature Tee, 0.5 GPM	2EWC7
2570-042-000	Mixing Tee Adapter	2EWC6
2570-040-001	Mixing Tee, Hot and Cold, 0.5 GPM	2EWC5
2570-028-001	O-Ring, Male x Male	2EWC4
2570-027-000	Valve Body, Plastic	2EWC2
2570-026-000	Valve Body, Plastic	2EWC1
2570-025-000	Valve Body, Plastic	2EWA9
2570-015-199	Prison Toilet Control Stop Stems	2EWA8
2570-014-000	Prison Toilet Control Stop Stems, Plastic	2EWA7
2570-013-000	Prison Toilet Control Stop Seats, Plastic	2EWA6
2570-012-000	Stop Bonnet	2EWA5
2570-011-001	Prison Toilet Control Stops	2EWA4
2570-000-001	Prison Toiler Control Stops	2EWA3
2580-000-001	Valve Seat Assembly	2EWD1
2590-203-001	Metering Valve Assembly, Single Temp., 2.5 GPM	2EWD5
2590-051-001	Metering Valve Assembly, Plastic	2EWD4
2590-050-001	Non Metering Valve Assembly, Nonmetering H & C	2EWD3
2590-003-001	Valve, Shower, Single-Temp., 2.5 gpm	1KAA4
2725-004-001	Urinal Strainer	2EWD7
2725-004-000	Urinal Strainer	2EWD6
2755-000-001	Prison Toiler Control Stops	2EWD8
4016-100-001	Push Button Assembly	2EWE2
4025-051-001	Bubbler Assembly, Hemispherical	2EWE5
4025-011-001	Bubbler Assembly	2EWE4

Tamper-Resistant Screws 2EVN1

O-Rings 2EVN9

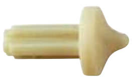
Shower Nozzle Assembly 2EVR6

Cartridge Assy. 2EVU4

Metering Diaphragm 2EVY5

Push Button Assy. 2EVZ9

Inside Cover 2EWC8



Control Stop 2EWA7

BestCare

Bradley

Odd Ball Industries

Toilet/Tissue Holder 23MU49

Security Bathroom Accessories

Accessories are designed to be stylish, functional, and for use in behavioral/mental health facilities where security or antiligature products are required.

Description	Material	W	H	D	Brand	Item No.
Bathroom Accessories						
Bookshelf	Stainless Steel	20 in	7 in	8 7/8 in	Bestcare	**49T898**
Flush Valve, Manual, 1.28 gpf gph	—	—	—	—	Bestcare	**38C425**
Flush Valve, Manual, 1.6 gpf gph	—	—	—	—	Bestcare	**38C424**
Ligature Resistant Flush Valve Cover, Stainless Steel, Left	Stainless Steel	—	—	—	Bradley	**23MU41**
Ligature Resistant Mirror	Stainless Steel	13 in	17 in	9/16 in	Bestcare	**38C411** *
Ligature Resistant Mirror	Stainless Steel	13 in	23 23/64 in	9/16 in	Bestcare	**38C412** *
Ligature Resistant Mirror Guard	Aluminum	24 in	1 ¼ in	5/8 in	Odd Ball Ind.	**38R020**
Ligature Resistant Soap Dish	Stainless Steel	7 in	7 in	2 5/8 in	Bestcare	**49T902**
Ligature Resistant Soap Dish	Stainless Steel	7 in	7 in	2¾ in	Bestcare	**38C413**
Recessed Shelf	304 Stainless Steel	18 in	7 in	4 1/16 in	Odd Ball Ind.	**38R014**
Security Hook	304 Stainless Steel	4¼ in	4¼ in	7/8 in	Odd Ball Ind.	**38R016**
Security Hook	Stainless Steel	4 in	4 in	2¼ in	Bradley	**23MU46**
Security Hook	Stainless Steel	5 in	5 in	1¼ in	Bradley	**23MU53**
Security Hook Strip	Stainless Steel	18 in	5 in	1¼ in	Bradley	**23MU47**
Security Shelf	Stainless Steel	18 in	7 in	4 in	Bradley	**23MU48**
Toilet Paper Dispenser, 5 in Dia. Roll	304 Stainless Steel	7 1/8 in	7 1/8 in	4 in	Odd Ball Ind.	**38R015**
Toilet Paper Holder	Stainless Steel	7 in	7 in	3 15/16 in	Bradley	**23MU49**
Toilet Paper Holder,	Stainless Steel	7 in	7 in	4¾ in	Bestcare	**49T903**
Toilet Paper Holder,	Stainless Steel	11¼ in	7¾ in	3½ in	Bestcare	**49T904**

L (in.)	H (in.)	D (in.)	Brand	Item No.
Grab Bars, Stainless Steel				
18	3¼	3	Bestcare	**38C430**
24	3¼	3	Bestcare	**38C431**
30	3¼	3	Bestcare	**38C432**
36	3¼	3	Bestcare	**38C433**
42	3¼	3	Bestcare	**38C434**
48	4¾	3	Bestcare	**38C435**

L (in.)	H (in.)	D (in.)	Brand	Item No.
Grab Bars, Powder Coat				
24	5¼	3 5/32	Odd Ball Ind.	**38R008**
42	5¼	3 5/32	Odd Ball Ind.	**38R011**
Grab Bars, Powder Coat, Vertical				
18	—	4 1/16	Odd Ball Ind.	**38R013**

With white powder-coated finish.

Door G3328

Panel G3388

Headrail 1FBX1

Individual Bathroom Partition Components

GLOBAL PARTITIONS

- For technical help with partition design and material lists for your unique project, contact our technical product experts at 1-800 GRAINGER (472-4643).

Pilasters—Come with type 304 stainless steel trim shoes and an anchor kit that attaches the pilaster to the floor.

Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Baked Enamel Steel					
ADA Compliant Door	36 in	58 in	1 in	Almond, Black, Charcoal, Dark Khaki, Gray, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	**G3311**
Door	24 in	58 in	1 in		**G3309**
	26 in	58 in	1 in		**G3310**
Panel	22 in	58 in	1 in		**G3385**
	34 in	58 in	1 in		**G3386**
	55 in	58 in	1 in		**G3312**
	58 in	58 in	1 in		**G3313**
	60 in	58 in	1 in		**G3314**
Pilaster	3 in	82 in	1 ¼ in		**G3315**
	4 in	82 in	1 ¼ in		**G3316**
	5 in	82 in	1 ¼ in		**G3317**
	6 in	82 in	1 ¼ in		**G3318**
	7 in	70 in	1 ¼ in	Almond, Black, Charcoal, Dark Khaki, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	**G3387**
	7 in	82 in	1 ¼ in	Almond, Black, Charcoal, Dark Khaki, Gray, Khaki, Pepper Dust, Royal Blue, Sandy Beach, White	**G3319**
	8 in	82 in	1 ¼ in		**G3320**
	10 in	82 in	1 ¼ in		**G3321**
	12 in	82 in	1 ¼ in		**G3322**
	18 in	82 in	1 ¼ in		**G3323**
	22 in	82 in	1 ¼ in		**G3324**
	24 in	82 in	1 ¼ in		**G3325**
Urinal Partition w/out Pilaster	18 in	42 in	1 in		**G3326**
	24 in	42 in	1 in		**G3327**

CONTINUED

CONTINUED

Individual Bathroom Partition Components

GLOBAL PARTITIONS

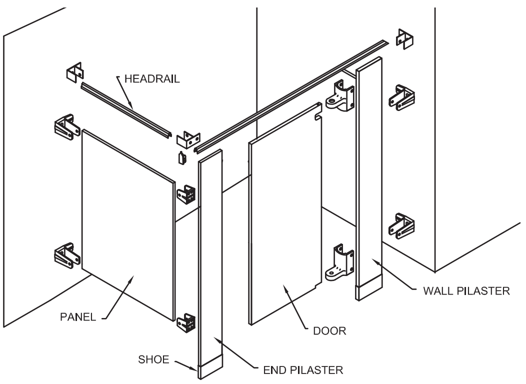
Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Plastic Laminate					
ADA Compliant Door	36 in	58 in	1 in	Almond, Sand	**G3368**
Door	24 in	58 in	1 in	Almond, Sand	**G3366**
Door	26 in	58 in	1 in	Almond, Sand	**G3367**
Panel	22 in	58 in	1 in	Almond, Sand	**G3394**
Panel	34 in	58 in	1 in	Almond, Sand	**G3395**
Panel	55 in	58 in	1 in	Almond, Sand	**G3369**
Panel	58 in	58 in	1 in	Almond, Sand	**G3370**
Panel	60 in	58 in	1 in	Almond, Sand	**G3371**
Pilaster	3 in	82 in	1 ¼ in	Almond, Sand	**G3372**
Pilaster	4 in	82 in	1 ¼ in	Almond, Sand	**G3373**
Pilaster	5 in	82 in	1 ¼ in	Almond, Sand	**G3374**
Pilaster	6 in	82 in	1 ¼ in	Almond, Sand	**G3375**
Pilaster	7 in	70 in	1 ¼ in	Almond, Sand	**G3396**
Pilaster	7 in	82 in	1 ¼ in	Almond, Sand	**G3376**
Pilaster	8 in	82 in	1 ¼ in	Almond, Sand	**G3377**
Pilaster	10 in	82 in	1 ¼ in	Almond, Sand	**G3378**
Pilaster	12 in	82 in	1 ¼ in	Almond, Sand	**G3379**
Pilaster	18 in	82 in	1 ¼ in	Almond, Sand	**G3380**
Pilaster	22 in	82 in	1 ¼ in	Almond, Sand	**G3381**
Pilaster	24 in	82 in	1 ¼ in	Almond, Sand	**G3382**
Urinal Partition w/out Pilaster	18 in	42 in	1 in	Almond, Sand	**G3383**
Urinal Partition w/out Pilaster	24 in	42 in	1 in	Almond, Sand	**G3384**
Solid Plastic Polymer					
ADA Compliant Door	36 in	55 in	1 in	Black, Blue, Charcoal, Gray	**G3330**
ADA Compliant Door	35 ½ in	55 in	1 in	Cream	**G3330**
Door	24 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3328**
Door	26 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3329**
Panel	22 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3388**
Panel	34 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3389**
Panel	55 in	55 in	1 in	Black, Blue, Charcoal	**G3331**
Panel	58 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3332**
Panel	60 in	55 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3333**

Bathroom Partition Type	W	H	Thickness	▶CHOOSE: Color	Item No.
Solid Plastic Polymer (Cont.)					
Pilaster	7 in	70 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3390**
Pilaster	3 in	82 in	1 in	Cream, Gray	**G3334**
Pilaster	4 in	82 in	1 in	Cream, Gray	**G3335**
Pilaster	5 in	82 in	1 in	Cream, Gray	**G3336**
Pilaster	6 in	82 in	1 in	Cream, Gray	**G3337**
Pilaster	7 in	82 in	1 in	Cream, Gray	**G3338**
Pilaster	8 in	82 in	1 in	Cream, Gray	**G3339**
Pilaster	10 in	82 in	1 in	Cream, Gray	**G3340**
Pilaster	12 in	82 in	1 in	Cream, Gray	**G3341**
Pilaster	18 in	82 in	1 in	Cream, Gray	**G3342**
Pilaster	22 in	82 in	1 in	Cream, Gray	**G3343**
Pilaster	24 in	82 in	1 in	Cream, Gray	**G3344**
Urinal Partition w/out Pilaster	18 in	42 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3345**
Urinal Partition w/out Pilaster	24 in	42 in	1 in	Black, Blue, Charcoal, Cream, Gray	**G3346**
Stainless Steel					
ADA Compliant Door	36 in	58 in	1 in	Satin	**2EHH6**
Door	24 in	58 in	1 in	Satin	**2EHH4**
Door	26 in	58 in	1 in	Satin	**2EHH5**
Panel	55 in	58 in	1 in	Satin	**2EHK3**
Panel	58 in	58 in	1 in	Satin	**2EHK4**
Panel	60 in	58 in	1 in	Satin	**2EHK5**
Pilaster	3 in	82 in	1 ¼ in	Satin	**2EHH8**
Pilaster	4 in	82 in	1 ¼ in	Satin	**2EHH9**
Pilaster	5 in	82 in	1 ¼ in	Satin	**2EHJ1**
Pilaster	6 in	82 in	1 ¼ in	Satin	**2EHJ2**
Pilaster	7 in	82 in	1 ¼ in	Satin	**2EHJ3**
Pilaster	8 in	82 in	1 ¼ in	Satin	**2EHJ4**
Pilaster	10 in	82 in	1 ¼ in	Satin	**2EHJ5**
Pilaster	12 in	82 in	1 ¼ in	Satin	**2EHJ6**
Pilaster	18 in	82 in	1 ¼ in	Satin	**2EHJ7**
Pilaster	22 in	82 in	1 ¼ in	Satin	**2EHJ8**
Pilaster	24 in	82 in	1 ¼ in	Satin	**2EHJ9**
Urinal Partition w/out Pilaster	18 in	42 in	1 in	Satin	**2EHK6**
Urinal Partition w/out Pilaster	24 in	42 in	1 in	Satin	**2EHK7**

Item	For Use On	W	H	Thickness	Item No.
Aluminum/Brushed Finish					
Headrail	Steel Partition	98 in	1 ¾ in	2 ½ in	**1FBX1**

Bathroom Partition Kits

- Include all necessary components and hardware



Bathroom Partition Type	W	H	D	Satin Item No.
Stainless Steel Material				
Single Compartment	36 in	82 in	60 in	**7A0A1**
Urinal Partition w/Pilaster	7 in	70 in	24 in	**7A0A4**
Urinal Partition w/Pilaster	7 in	70 in	36 in	**7A0A5**

Bathroom Partition Type	W	H	D	Almond Item No.	Sand Item No.
Plastic Laminate Material					
Urinal Partition w/Pilaster	7 in	70 in	24 in	**7AG29**	**7AW53**
Urinal Partition w/Pilaster	7 in	70 in	36 in	**7AG30**	**7AW55**

Bathroom Partition Type	W	H	D	Almond Item No.	Black Item No.	Dove Gray Item No.	Folkstone Celesta Item No.	Graphite Grafix Item No.	Neutral Glace Item No.	Silver Gray Item No.
Phenolic Material										
Urinal Partition w/Pilaster	7 in	70 in	24 in	**7AW33**	**7AW27**	**7AW32**	**7AW30**	**7AW29**	**7AW34**	**7AW31**
Urinal Partition w/Pilaster	7 in	70 in	36 in	**7AW43**	**7AW37**	**7AW42**	**7AW40**	**7AW39**	**7AW44**	**7AW41**

Bathroom Partition Type	W	H	D	Almond Item No.	Black Item No.	Blue Item No.	Charcoal Item No.	Dark Khaki Item No.	Gray Item No.	Khaki Item No.	Pepper Dust Item No.	Sandy Beach Item No.	White Item No.
Baked Enamel Steel Material													
Single Compartment	36 in	82 in	60 in	**7YP86**	**7AW61**	**7AW64**	**7AW57**	**7AW60**	**7YP78**	**7AW59**	**7AW63**	**7AW62**	**7AW58**
Urinal Partition w/Pilaster	7 in	70 in	24 in	**7YP81**	**7AW85**	**7AW88**	**7AW81**	**7AW84**	**7YP89**	**7AW83**	**7AW87**	**7AW86**	**7AW82**
Urinal Partition w/Pilaster	7 in	70 in	36 in	**7YP94**	**7AW93**	**7AW96**	**7AW89**	**7AW92**	**7YP96**	**7AW91**	**7AW95**	**7AW94**	**7AW90**

Bathroom Partition Type	W	H	D	Black Item No.	Blue Item No.	Charcoal Item No.	Cream Item No.	Gray Item No.
Solid Plastic Polymer Material								
Urinal Partition w/Pilaster	7 in	70 in	24 in	**7AV92**	**7AV89**	**7AV90**	**7YP93**	**7YP85**
Urinal Partition w/Pilaster	7 in	70 in	36 in	**7AV96**	**7AV93**	**7AV94**	**7YP97**	**7YP95**

GLOBAL PARTITIONS

Partition Hardware Packages and Accessories

Packages include all brackets and fasteners needed to assemble partition components. Fasteners are Torx head screws that require a T25 Torx Power Bit, sold separately on Grainger.com. For Toilet Partition Folding Shelf, order 4WMJ7 on page 2760. No Sight Kit 5JME1 helps block the sight line between the door and pilasters of the compartment for added privacy.

REPLACEMENT SHOES

Replace damaged trim shoes without dismantling the entire compartment.

Partition Hardware
1FBX6

W	H	Item No.
Stainless Steel Replacement Shoes for Baked Enamel and Stainless Steel Pilasters		
3 in	3 in	**5JMC9**
4 in	3 in	**5JMD0**
5 in	3 in	**5JMD1**
6 in	3 in	**5JMD2**
7 in	3 in	**5JMD3**
7 in	3 in	**5JME0** **
8 in	3 in	**5JMD4**
10 in	3 in	**5JMD5**
12 in	3 in	**5JMD6**
18 in	3 in	**5JMD7**
22 in	3 in	**5JMD8**
24 in	3 in	**5JMD9**

Use For	For Baked Enamel & Stainless Steel Partitions: Material of Construc.	Item No.	For Solid Plastic Partitions: Material of Construc.	Item No.	For Phenolic Partitions: Material of Construc.	Item No.	For Plastic Laminate Partitions: Material of Construc.	Item No.
Partition Hardware Packages								
Attachment of Mid Panel to Wall and Pilaster	Zamac	**1FBX6**	Aluminum	**1FBY3**	Stainless Steel	**12V401**	Zamac	**3PEL3**
Attachment of End Panel to Wall and Pilaster for Floor Mount Urinal Partitions	Zamac	**1FBX5**	Aluminum	**1FBY2**	Stainless Steel	**12V399**	Zamac	**3PEL2**
Attachment of Pilaster to Wall	Zamac	**1FBX7**	Aluminum	**1FBY4**	Stainless Steel	**12V402**	Zamac	**3PEL4**
Attachment of Panel to Pilaster Inline	Zamac	**1FBX4**	Stainless Steel	**1FBY1**	—	—	Zamac	**3PEL5**
Attachment of Headrail to Wall and Pilaster	Aluminum	**1FBX3**	Aluminum	**1FBX3**	Aluminum	**1FBX3**	Aluminum	**1FBX3**
For Wall Mount Urinal Partitions	Zamac	**3PEK8**	Aluminum	**3PEL1**	Stainless Steel	**12V398**	Zamac	**3PEK9**
No Sight Kit, Aluminum	Aluminum	**5JME1**	—	—	—	—	—	—
Components								
Flat Stop and Keeper	Stainless Steel	**2EHK8**	Stainless Steel	**3PEN9**	Stainless Steel	**3PEN9**	Stainless Steel	**3PEN9**
Stop and Keeper, Universal	Zamac	**2EHK9**	—	—	—	—	—	—
Stop and Keeper, Inswing Door	—	—	Zamac	**3PEN7**	Zamac	**12V405**	Zamac	**3PEN5**
Stop and Keeper, Outswing Door	—	—	Zamac	**3PEN8**	Zamac	**12V406**	Zamac	**3PEN6**
Bumper and Coat Hook	Zamac	**2EHL1**	Zamac	**2EHL1**	—	—	Zamac	**2EHL1**
Door Pull	Zamac	**2EHL2**	Zamac	**3PEN2**	—	—	Zamac	**3PEN1**
ADA Concealed Latch Knobs	Zamac	**2EHL3**	—	—	—	—	—	—
Concealed Latch Knobs	Zamac	**2EHL4**	—	—	—	—	—	—
Slide Latch	—	—	Zamac	**3PEN4**	—	—	Zamac	**3PEN3**
Inswing Door Set	Zamac	**2EHL5**	Zamac	**3PEL7**	Zamac	**12V396**	Zamac	**3PEL6**
Outswing Door Set	—	—	—	—	Zamac	**12V397**	—	—
ADA Outswing Adder	Zamac	**2EHL6**	—	—	—	—	—	—
ADA Outswing Door Set	—	—	Zamac	**3PEL9**	—	—	Zamac	**3PEL8**

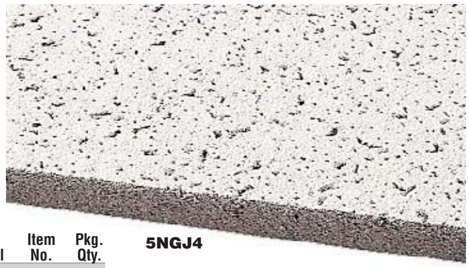
*** For floor-mounted urinal screen pilasters.*

Acoustical Ceiling Tiles

Armstrong CEILING SYSTEMS

- White color

A variety of edge types and surface textures to help you create the look you want. All tiles are durable, sag resistant, and have a Flame Spread Index 25 or less. Smoke Developed Index 50 or less. Include a 30-yr. limited system warranty against visible sag, mold/mildew, and bacterial growth (excludes Fissured, Cortega, and Designer products). Mineral fiber construction, except 32WN11 is ceramic, mineral fiber and 6EJL6 and 5UTN3 are fiberglass. All tiles have Class A Fire resistance, according to ASTM E84 and CAN/ULC S102 surface burning characteristics.



5NGJ4

L	W	Thick.	Edge Type	Coverage	Noise Reduction Coefficient	Resistant To	Recycled Content	Mfr. Model	Item No.	Pkg. Qty.
Fine Fissured										
12 in	12 in	⅝ in	Concealed	40 sq ft	0.55	Bacteria, Mildew, Mold, Sag	56 %	746	**36N476**	40
24 in	24 in	¾ in	Angled Tegular	48 sq ft	0.7	Bacteria, Mildew, Mold, Sag, Scratch-Resistant	55 %	1820A	**13Z992**	12
		⅝ in	Angled Tegular	64 sq ft	0.55	Bacteria, Mildew, Mold, Sag	55 %	1732	**6YLP9**	16
		⅝ in	Beveled Tegular	64 sq ft	0.55	Bacteria, Mildew, Mold, Sag	55 %	1734	**6YLR4**	16
		⅝ in	Square Lay-In	64 sq ft	0.55	Bacteria, Mildew, Mold, Sag	43 %	1728A	**5NGK0**	16
48 in		⅝ in	Square Lay-In	64 sq ft	0.55	Bacteria, Fire Guard, Mildew, Mold, Sag, Scratch-Resistant	55 %	1830	**13Z993**	8
		¾ in	Square Lay-In	64 sq ft	0.7	Bacteria, Mildew, Mold, Sag	55 %	1811	**31LC02**	8
		⅝ in	Square Lay-In	96 sq ft	0.55	Bacteria, Mildew, Mold, Sag	43 %	1729A	**5NGJ3**	12
Fine Fissured Second Look										
48 in	24 in	¾ in	Angled Tegular	80 sq ft	0.55	Class A Fire Retardant	32 %	1761C	**22XJ42**	10
Fissured										
24 in	24 in	⅝ in	Angled Tegular	64 sq ft	0.55	Class A Fire Retardant	34 %	705A	**5NGK3**	16
		⅝ in	Square Lay-In	64 sq ft	0.55	Class A Fire Retardant	34 %	756A	**5NGJ7**	16
		⅝ in	Square Lay-In	64 sq ft	0.55	Fire Guard	41 %	896	**19H050**	16
48 in		⅝ in	Square Lay-In	48 sq ft	0.55	Fire Guard	41 %	895A	**34CY61**	6
		⅝ in	Square Lay-In	96 sq ft	0.55	Class A Fire Retardant	34 %	755B	**5NGJ2**	12
Dune and Dune Second Look										
24 in	24 in	⅝ in	Angled Tegular	64 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant, Soil	43 %	1774	**6YLP7**	16
		⅝ in	Beveled Tegular	64 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant, Soil	36 %	1775	**6YLP8**	16
		⅝ in	Square Lay-In	64 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant	43 %	1772	**13Z990**	16
48 in		⅝ in	Angled Tegular	64 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant	38 %	1776A	**34CY63**	8
		¾ in	Angled Tegular	80 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant	51 %	2712A	**36N474**	10
		⅝ in	Square Lay-In	64 sq ft	0.5	Bacteria, Mildew, Mold, Sag, Scratch-Resistant	38 %	1773A	**34CY62**	8
Cirrus										
24 in	24 in	¾ in	Angled Tegular	48 sq ft	0.7	Bacteria, Mildew, Mold, Sag	63 %	584BN	**5UTN5**	12
		¾ in	Beveled Tegular	48 sq ft	0.7	Bacteria, Mildew, Mold, Sag	63 %	589BN	**5NGK4**	12
		¾ in	Square Lay-In	48 sq ft	0.7	Bacteria, Mildew, Mold, Sag	63 %	574B	**6YLR6**	12
Cirrus Second Look										
48 in	24 in	¾ in	Beveled Tegular	48 sq ft	0.65	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	62 %	513A	**32WM80**	6
Cirrus Profiles - Classic Step										
24 in	24 in	¾ in	Beveled Tegular	48 sq ft	0.65	Impact Resistant, Mold/Mildew, Sag, Scratch-Resistant, Soil	62 %	591B	**22XJ44**	12
Ultima										
24 in	24 in	¾ in	Beveled Tegular	48 sq ft	0.8	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	77 %	1911A	**5NGK1**	12
		¾ in	Beveled Tegular	48 sq ft	0.8	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	77 %	1912A	**5UTN6**	12
		¾ in	Beveled Tegular	48 sq ft	0.8	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Scrub, Soil, Wash	76 %	1936A	**42EM55**	12
		¾ in	Square Lay-In	48 sq ft	0.75	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	77 %	1910A	**13Z995**	12
		¾ in	Square Lay-In	48 sq ft	0.75	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	77 %	1935A	**48WC07**	12
48 in		¾ in	Square Lay-In	48 sq ft	0.75	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	77 %	1913A	**13Z996**	6
Georgian High Washability										
48 in	24 in	⅝ in	Square Lay-In	96 sq ft	—	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	36 %	793	**5NGJ6**	12
Georgian										
24 in	24 in	⅝ in	Square Lay-In	64 sq ft	0.55	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	36 %	764C	**6YLR2**	16
48 in		⅝ in	Square Lay-In	96 sq ft	0.55	Bacteria, Impact Resistant, Mildew, Mold, Sag, Scratch-Resistant, Soil	36 %	763D	**6EJL5**	12
Ceramaguard										
48 in	24 in	⅝ in	Square Lay-In	48 sq ft	—	Bacteria, Mildew, Mold, Sag	37 %	605C	**13Z998**	6
		⅝ in	Square Lay-In	48 sq ft	0.55	Bacteria, Mildew, Mold, Sag, Soil	37 %	608A	**32WN11**	6
Clean Room VL (Unperforated) - Fire Guard										
24 in	24 in	⅝ in	Square Lay-In	48 sq ft	0.55	Bacteria, Fire Guard, Mildew, Mold, Sag, Soil	41 %	868B	**5NGK2**	12
48 in		⅝ in	Square Lay-In	64 sq ft	0.55	Bacteria, Fire Guard, Mildew, Mold, Sag, Soil	41 %	870B	**5UTN4**	8
Clean Room FL										
24 in	24 in	¾ in	Square Lay-In	48 sq ft	0.55	Bacteria, Mildew, Mold, Sag, Soil	77 %	1715B	**6YLR5**	12
48 in		⅝ in	Square Lay-In	64 sq ft	0.55	Bacteria, Mildew, Mold, Sag, Scratch-Resistant, Soil	39 %	1721B	**36N475**	8
Cortega Fire Guard										
24 in	24 in	⅝ in	Angled Tegular	48 sq ft	0.55	Fire Guard	41 %	816A	**36N477**	12
		⅝ in	Square Lay-In	64 sq ft	0.55	Fire Guard	41 %	824	**6YLR3**	16
48 in		⅝ in	Square Lay-In	48 sq ft	0.5	Fire Guard	41 %	823A	**34CY60**	6
Cortega & Cortega Second Look										
24 in	24 in	⅝ in	Angled Tegular	64 sq ft	0.55	Class A Fire Retardant	25 %	704A	**5NGJ8**	16
		⅝ in	Beveled Tegular	64 sq ft	0.55	Class A Fire Retardant	41 %	2195	**13Z997**	16
		⅝ in	Square Lay-In	64 sq ft	0.55	Class A Fire Retardant	36 %	770	**5NGJ4**	16
48 in		¾ in	Angled Tegular	80 sq ft	0.55	Class A Fire Retardant	34 %	2767D	**5NGJ9**	10
		⅝ in	Angled Tegular	80 sq ft	0.55	Class A Fire Retardant	34 %	703B	**6YLR1**	10
		¾ in	Angled Tegular	80 sq ft	0.55	Class A Fire Retardant	34 %	2776B	**32WM10**	10
		¾ in	Angled Tegular	80 sq ft	0.55	Class A Fire Retardant	34 %	2765D	**13A867**	10
		⅝ in	Square Lay-In	96 sq ft	0.55	Class A Fire Retardant	34 %	769A	**5NGJ1**	12
Shasta										
48 in	24 in	⅝ in	Square Lay-In	128 sq ft	0.7	Bacteria, Mildew, Mold, Sag	82 %	2906	**6EJL6**	16
Random Fissured										
48 in	24 in	⅝ in	Square Lay-In	128 sq ft	0.55	Bacteria, Mildew, Mold, Sag	71 %	2911A	**5UTN3**	16
Kitchen Zone										
24 in	24 in	⅝ in	Square Lay-In	64 sq ft	—	Bacteria, Mildew, Mold, Sag, Scratch-Resistant, Soil	51 %	673	**20CA77**	16
48 in		⅝ in	Square Lay-In	96 sq ft	—	Bacteria, Mildew, Mold, Sag, Scratch-Resistant, Soil	51 %	672	**20CA76**	12

Type	Load Carrying (lb. per Linear ft.)	L	W	H	Mfr. Model	Item No.
Suspension Systems						
Prelude Wall Molding, 144 in L	—	144 in	⅞ in	⅞ in	7800RWH	**5NHE4**
Prelude Cross Tee, 24 in L	40.45 lb	24 in	15/16 in	1 ⅜ in	XL7328RW	**5NHE3**
Prelude Cross Tee, 48 in L	9 lb	48 in	15/16 in	1 ½ in	XL7342	**6EJL8**
Prelude Cross Tee, 48 in L	8.31 lb	48 in	15/16 in	1 ⅜ in	XL7348RW	**5NHE2**
Prelude Main Beam, 144 in L	12.8 lb	144 in	15/16 in	1 11/16 in	7300XRWH	**5NHE1**

Fine Fissured—Provide excellent sag resistance.

Fine Fissured Second Look—Feature an innovative look where the panel is scored to look like a 2 ft. x 2 ft. panel. Compatible with standard suspension systems.

Fissured—Economical panels come with a directional, fissured visual offers standard acoustics.

Dune and Dune Second Look—Nondirectional appearance helps reduce installation time. Durable, scratch-resistant surface.

Cirrus—Offer a medium-textured appearance with excellent noise reduction, sag resistance, high light reflectance, antimicrobial treatment, and no added formaldehyde.

Cirrus Profiles - Classic Step—Medium-textured appearance with edge details carved into the panels. Compatible with standard suspension systems.

Ultima—Offer excellent noise reduction, sag resistance, high light reflectance, antimicrobial treatment, and no added formaldehyde, in a high-impact, scratch-resistant, washable, and scrubbable tile.

Georgian High Washability and Clean Room VL—Unperforated Class 5 (Class 100) tiles offer high wash and scrubbability, and soil resistance. Impact and scratch resistant. Meet USDA/FSIS guidelines for food processing areas.

Ceramaguard—Nondirectional, smooth texture and resistant to chemical fumes. For high-moisture locations including shower areas and indoor parking garages.

Clean Room FL—Unperforated Class 5 (Class 100) tiles feature high scrubbability and washability plus impact, scratch, and soil resistance. Meet USDA/FSIS guidelines in food processing areas.

Kitchen Zone—Easy-to-clean panels feature up to 20% more light reflectance than vinyl-covered gypsum. The smooth surface meets USDA/FSIS guidelines in food processing areas.

Suspension Systems—SuperLock clips allow fast and secure connections with accurate alignment. Rotary stitching adds strength. PeakForm profile increases strength and grid stability. Meet seismic requirements when installed according to ICC ESR-1308.

Description	Item No.
SuperCoat Touch-Up Paint	
Ceiling Tile Touch-Up Paint, Brush In Cap, 8 oz., White	**5NTW4**

RAIN BIRD

Drip Irrigation Systems

Drip Emitter Conversion Kit 14U326

Drip Bubbler Conversion Kit 14U327—Converts a pop-up spray into a water-saving micro bubbler zone.

Item	Item No.	Pkg. Qty.
360° Adjust Pattern Mister	**14U330**	2
360° Micro Bubbler	**14U331**	2
Drip Bubbler Conversion Kit	**14U327**	1
Drip Emitter Conversion Kit	**14U326**	1
Emitter and Diffuser	**14U329**	5
Emitter Tool	**2EMD3**	1
Faucet Connection Kit	**2EME6**	1
Full Circle Micro Bubbler	**2EMD7**	4

Drip Emitter Conversion Kit 14U326—Converts an existing pop-up spray head into a water-saving drip system with 6 spot watering emitters. Ideal for larger planting beds and gardens.

Item	Item No.	Pkg. Qty.
Full Circle Micro Spray	**2EME2**	2
Half Circle Micro Bubbler	**2EMD8**	4
Half Circle Micro Spray	**2EME3**	2
Mounting Clip	**2EMD9**	10
Riser Connection Kit	**2EME7**	1
Six Outlet Emitter	**2EME1**	1
Spot Watering Emitters	**2EMD1**	10
Spot Watering Emitters	**2EMD2**	10

Micro Bubblers (2EMD7, 2EMD8) and Micro Sprays (2EME2, 2EME3)—Low-flow watering heads with drip irrigation systems. Adjustable flow and radius and uniform emission patterns. Include stake and ¼" fitting.

Description	For ¼" Tubing Item No.	For ¼" Tubing Pkg. Qty.	For ½" Tubing Item No.	For ½" Tubing Pkg. Qty.
Blank Tubing, 100 ft.	**2EME5**	1	**2EMA9**	1
Emitter Tubing *	**2EMA8**	1	**2EMA7**	1
Barbed Tee	**2EMC1**	10	**2EMC6**	4
Barbed Coupling	**2EMC2**	10	**2EMC5**	4
Barbed Elbow	—	—	**2EMC7**	4
Barbed End Plug	**2EMC3**	10	—	—
End Closure	—	—	**2EMC8**	2
Tubing Stake	**2EMC4**	10	**2EMC9**	10

**** Deliver water directly to plant base to help conserve water and reduce costs.***

Irrigation/ Sprinkler Timer 4KEA1

Electronic Hose End Timer 38W346

Impact Sprinkler Head 5Z285

Pop-Up Rotor Sprinkler Head 4JY64

RAIN BIRD

Professional Underground Sprinkler Systems

Timers and Sensor—Use 4KEA1 to adjust watering schedule for each area and the flow rate of each sprinkler. Has an auto rain shutoff to stop operation during rain, and easily linked to existing drip watering systems. 38W346 has easy-to-use controls, a LCD, and battery backup. 2EMF1 is adjustable to varying amounts of rainfall.

Valves—Use antisiphon valves in above-ground applications. Feature an adjustable flow control and help prevent wasteful misting when water pressure is too high. Use automatic in-line valves in pump systems where backflow protection is already inst alled.

Pop-Up Gear-Driven Rotors and Nozzles—Design protects the easily adjustable rotors from dirt and debris. Mount on riser 1YHC6 to clear tall shrubs.

Pop-Up Spray Heads with Nozzles—The 4", 6", and 12" 1800 Series spray heads are efficient at low pressures.

Description	Spacing	Item No.
Timers and Sensor		
Sprinkler Timer, 9-Zone, 7 Days, Rain Delay Command	—	**4KEA1**
Electronic Hose End Timer, ¾ in Hose Thread	—	**38W346**
Rain Sensor	—	**2EMF1**
Valves, 125 psi Max., 24V, 50/60 Hz		
Anti-siphon Valve, Professional Grade, ¾ in FNPT	—	**5Z297**
Anti-siphon Valve, Professional Grade, 1 in FNPT	—	**5Z298**
Automatic In-line, ¾ in, FPT	—	**5Z299**
Automatic In-line, 1 in, FPT	—	**5Z300**
Impact Sprinkler Heads, ½" Inlet		
Brass, Adjustable	18 to 24 ft	**5Z285**
Plastic, 20° to 340° Arc or Full Circle	24 to 45 ft	**1YHA5**
Pop-Up Impact Rotors, ½" Side and Bottom Inlets		
3 in Mini Paw, Adjustable, 0° to 360°	18 to 24 ft	**5Z283**
3 in Maxi Paw, Adjustable, 20° to 360°	24 to 45 ft w/ Nozzle	**3W973**
Pop-Up Gear Driven Rotors and Nozzles		
4 in Plastic, ½ in Inlet, Adjustable	8 to 15 ft	**4JY63**
4 in Plastic, ¾ in Inlet, Adjustable	26 to 38 ft	**4JY64**
4 in Stainless Steel, ¾ in, Adjustable	13 to 18 ft	**1YHA6**
Nozzle Set, For Use with 4JY63	—	**1YHA7**
Nozzle Set, For Use with 4JY64	—	**1YHA8**
Shrubbery Spray Heads and Bubbler, ½" Inlet		
Shrubbery Spray Head, Quarter Circle	8 to 15 ft	**5Z294**
Shrubbery Spray Head, Half Circle	8 to 15 ft	**5Z295**
Shrubbery Spray Head, Full Circle	8 to 15 ft	**5Z296**
Full-Circle Bubbler	11 to 15 ft	**1YHC4**

Description	Spacing	Item No.
Pop-Up Spray Heads with Nozzles, ½" Inlet, NPT Connection		
2½ in Sure Pop Quarter Circle	18 to 24 ft	**5Z288**
2½ in Sure Pop Half Circle	20 to 41 ft	**5Z289**
2½ in Sure Pop Full Circle	19 to 32 ft	**5Z290**
4 in 1804 Quarter Circle	19 to 32 ft	**5Z291**
4 in 1804 Half Circle	26 to 38 ft	**5Z292**
4 in 1804 Full Circle	25 to 50 ft	**5Z293**
4 in 1804 Adjustable	8 to 15 ft	**3W972**
4 in 1802 Quarter Circle	8 to 15 ft	**6YPP1**
4 in 1802 Full Circle	26 to 41 ft	**6YPN9**
4 in 1802 Adjustable	24 to 45 ft	**6YPN8**
6 in 1806 Adjustable	11 to 15 ft	**2EME8**
12 in 1812 Adjustable	3 to 20 ft	**2EME9**
Pop-Up Spray Heads w/o Nozzles, ½" Inlet, NPT Connection		
4 in 1802 Without Nozzle	8 to 15 ft	**6YPP3**
4 in 1804 Without Nozzle	13 to 18 ft	**1YHB4**
Nozzles		
Spray Head Nozzle, Quarter Circle	7 to 15 ft	**1YHC1**
Spray Head Nozzle, Half Circle	7 to 15 ft	**1YHB9**
Spray Head Nozzle, Full Circle	7 to 15 ft	**1YHB8**
Center Strip	7 to 15 ft	**1YHC2**
Side Strip	7 to 15 ft	**1YHC3**
Accessories		
Solenoid Replacement Kit for 5Z299, 5Z300	—	**1YHB2**
Diaphragm Replacement Kit for 5Z299, 5Z300	—	**1YHB3**
Spray Head Pull Up Tool, 5½ in H	—	**1YHC5**
Cut-Off Riser, ½ in NPT X 6 in H	—	**1YHC6**

Quick Coupling Valve 4NDN8

Quick Coupling Key 4NDP1

Sprinkler Head 4NDP5

Brass Irrigation Sprinkler Heads and Fittings

Professional-quality components for general landscape irrigation, nursery, and greenhouse applications.

Description	Connection	H	W	Item No.
Quick Coupling Valves; Max. Pressure 125 psi				
Quick Coupling Valve	¾ in FNPT	4 in	2 in	**4NDN8**
	1 in FNPT	5.2 in	2.2 in	**4NDN9**

Description	Connection	H	W	Item No.
Control Valve Keys				
Valve Control Key, 30 in L	—	—	—	**4NDR1**
Quick Coupling Key; Max. Pressure 125 psi				
Quick Coupling Key	¾ in MNPT	6 in	1.1 in	**4NDP1**
	1 in MNPT	9 in	1.2 in	**4NDP2**

Connection	Pressure Range	Spacing	H	W	Item No.
Sprinkler Heads					
½ in MNPT	25 to 55 psi	30 to 45 ft	4 in	4 ⅛ in	**4NDP5**
1 in MNPT	35 to 75 psi	48 to 76 ft	7 13⁄16 in	8 ½ in	**4NDP6**
¾ in MNPT	35 to 80 psi	40 to 70 ft	5 5⁄16 in	5 13⁄16 in	**4NDP7**
¾ in MNPT	30 to 60 psi	40 to 55 ft	5 ⅞ in	6 3⁄16 in	**4NDP8**

Description	Connection	Item No.
Irrigation Fittings; Max. Pressure: 125 psi		
Compression Tee	½ in FNPT on Branch Tee, ⅜ in pipe on Through compressions	**4NDT3**
	½ in FNPT on Branch Tee, ½ in pipe on Through compressions	**4NDT6**
	½ in pipe on Through compressions, ¾ in FNPT on Branch Tee	**4NDT4**
Garden Hose Wye	¾ in NHT	**4NDT2**
¾ x ½ in Swivel, Double Female	¾ in FGHT x ½ in FNPT	**4KG87**
¾ x ¾ in Double Male	¾ in MGHT	**4KG82**
Hose Swivel	¾ in MHT x ¾ in FNPT	**4NDP3**
	¾ in x 1 in MHT x FPT	**4NDP4**

Plastic Cam and Groove Fittings

Consist of a two-part system with a nipple (adapter) and coupler (sold separately) that connect or disconnect pipe, tubing, or hose without tools.

Polypropylene—Lightweight thermoplastic material resists UV, weathering, corrosion, and ozone damage. Commonly used with treated water, corrosive solvents, and chemicals.

Nylon—Fittings resists corrosion and changes in humidity, withstand higher temperatures than polypropylene, and won't scratch delicate surfaces.

Glass-Filled Polypropylene—Uses glass fibers for extra reinforcement. This combination adds stability and strength to resist UV, weathering, and corrosion.

Dust Caps and Plugs—Seal leaks and prevent debris or other materials from entering the connection.

Polypropylene Type A 1MJU9

Nylon Type B 55EF78

Polypropylene Type D 1DPH7

Nylon Type F 55EG15

Polypropylene Type C 1DPH6

Nylon Type E 55EG06

Coupling Size	Thread Size	Polypropylene Max. Working Pressure @ 70°F	Polypropylene Item No.	Nylon Max. Working Pressure @ 70°F	Nylon Item No.
Type A					
No Locking Arm					
¾"	½"-14	225 psi	**1MJU9**	150 psi	**55EF69**
¾"	¾"-14	225 psi	**1MJV1**	150 psi	**55EF70**
1"	1"-11½	300 psi	**1DPJ8**	250 psi	**55EF71**
1"	1¼"-11½	300 psi	**1DPK6**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF72**
1½"	1½"-11½	225 psi	**1DPL3**	250 psi	**55EF73**
2"	2"-11½	225 psi	**1DPN4**	250 psi	**55EF74**
2½"	2½"-8	—	—	225 psi	**55EF75**
3"	3"-8	100 psi	**1MJT1**	200 psi	**55EF76**
4"	4"-8	75 psi	**1MJU1**	100 psi	**55EF77**
Type B					
No Locking Arm					
¾"	½"-14	300 psi	**1MJV2**	150 psi	**55EF78**
¾"	¾"-14	300 psi	**1MJV3**	150 psi	**55EF79**
1"	1"-11½	300 psi	**1DPJ9**	250 psi	**55EF80**
1"	1¼"-11½	300 psi	**1DPK7**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF81**
1½"	1½"-11½	300 psi	**1DPL4**	250 psi	**55EF82**
2"	2"-11½	225 psi	**1DPN5**	250 psi	**55EF83**
2½"	2½"-8	—	—	225 psi	**55EF84**
3"	3"-8	150 psi	**1MJT2**	200 psi	**55EF85**
4"	4"-8	150 psi	**1MJU2**	100 psi	**55EF86**
Type D					
No Locking Arm					
¾"	½"-14	300 psi	**1DPH7**	150 psi	**55EF96**
¾"	¾"-14	300 psi	**1DPJ3**	150 psi	**55EF97**
1"	1"-11½	300 psi	**1DPK2**	250 psi	**55EF98**
1"	1¼"-11½	300 psi	**1DPK9**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EF99**
1½"	1½"-11½	300 psi	**1DPL7**	250 psi	**55EG01**
2"	2"-11½	200 psi	**1DPN8**	250 psi	**55EG02**
2½"	2½"-8	—	—	225 psi	**55EG03**
3"	3"-8	200 psi	**1MJT5**	200 psi	**55EG04**
4"	4"-8	100 psi	**1MJU5**	100 psi	**55EG05**
Type F					
No Locking Arm					
¾"	½"-14	300 psi	**1DPH9**	—	—
¾"	¾"-14	300 psi	**1DPJ5**	150 psi	**55EG15**
1"	1"-11½	300 psi	**1DPK4**	250 psi	**55EG16**
1"	1¼"-11½	300 psi	**1DPL2**	—	—
1¼"	1¼"-11½	—	—	250 psi	**55EG17**
1½"	1½"-11½	300 psi	**1DPN1**	250 psi	**55EG18**
2"	—	150 psi	**5MLV1**	—	—
2", 3"	—	75 psi	**5MLV3**	—	—
2"	2"-11½	300 psi	**1DPP2**	250 psi	**55EG19**
2½"	2½"-8	—	—	225 psi	**55EG20**
3"	—	75 psi	**5MLV2**	—	—
3"	3"-8	100 psi	**1MJT7**	200 psi	**55EG21**
4"	4"-8	75 psi	**1MJU7**	100 psi	**55EG22**
Type DA					
No Locking Arm					
3" Socket x 2" Plug	—	200 psi	**5MLV0**	—	—

Coupling Size	Hose Fitting Size	Polypropylene Max. Working Pressure @ 70°F	Polypropylene Item No.	Nylon Max. Working Pressure @ 70°F	Nylon Item No.
Type C					
No Locking Arm					
¾"	½"	300 psi	**1DPH6**	150 psi	**55EF87**
¾"	¾"	300 psi	**1DPJ1**	150 psi	**55EF88**
1"	1"	300 psi	**1DPK1**	250 psi	**55EF89**
1"	1¼"	300 psi	**1DPK8**	—	—
1¼"	1¼"	—	—	250 psi	**55EF90**
1½"	1½"	300 psi	**1DPL5**	250 psi	**55EF91**
2"	2"	225 psi	**1DPN6**	250 psi	**55EF92**
2½"	2½"	—	—	225 psi	**55EF93**
3"	3"	200 psi	**1MJT3**	200 psi	**55EF94**
4"	4"	150 psi	**1MJU3**	100 psi	**55EF95**
Type E					
No Locking Arm					
¾"	½"	300 psi	**1DPH8**	150 psi	**55EG06**
¾"	¾"	300 psi	**1DPJ4**	150 psi	**55EG07**
1"	1"	300 psi	**1DPK3**	250 psi	**55EG08**
1"	1¼"	300 psi	**1DPL1**	—	—
1¼"	1¼"	—	—	250 psi	**55EG09**
1½"	1½"	200 psi	**1DPL9**	250 psi	**55EG10**
2"	2"	200 psi	**1DPP1**	250 psi	**55EG11**
2½"	2½"	—	—	225 psi	**55EG12**
3"	3"	150 psi	**1MJT6**	200 psi	**55EG13**
4"	4"	50 psi	**1MJU6**	100 psi	**55EG14**

Coupling Size	Max. Working Pressure @ 70°F	Polypropylene Item No.	Glass-Filled Polypropylene Item No.
Type DC, Dust Cap			
Includes Locking Arm			
2"	—	—	**4YLL3**
3"	—	—	**4YLL5**
4"	—	—	**4YLL7**
No Locking Arm			
¾"	300 psi	**1DPJ2**	—
1"	300 psi	**1DPJ6**	—
1½"	300 psi	**1DPL6**	—
2"	200 psi	**1DPN7**	—
3"	100 psi	**1MJT4**	—
4"	100 psi	**1MJU4**	—
Type DP, Dust Plug			
No Locking Arm			
¾"	70 psi	**1MJV5**	—
1"	300 psi	**1DPJ7**	—
1½"	225 psi	**1DPN3**	—
2"	225 psi	**1MJR9**	—
3"	—	—	**4YLL4**
3"	150 psi	**1MJT9**	—
4"	—	—	**4YLL6**

4YLL8

Glass-Filled Polypropylene Cam Arm Locks

Locks fit around a coupler and hold cam arms in place to prevent tampering and avoid accidental uncoupling. Used in water treatment, waste/vacuum trucks, and chemical movement and storage.

Coupling Size	Overall Length	Item No.
2"	3¾"	**4YLL8**
3"	5¼"	**4YLL9**
4"	6"	**4YLN1**

BANJO CORPORATION

Polypropylene Dry Disconnect Couplings

Designed for connecting and disconnecting hoses and pipelines without spills or leaks. Couplings have a double ball valve design that allows maximum flow, but they cannot be uncoupled in an open position. FKM gasket. For use in pharmaceutical, chemical, and petroleum processing.

34K329

Item	Coupling Size	Thread Size	Max. Working Pressure @ 70°F	Overall Length	Item No.
Cam and Groove Coupling with Valve	2"	2"	100 psi	4-7/16"	**34K329**
Dry Disconnect Coupling		2"	100 psi	6-21/32"	**34K328**
Cam and Groove Adapter	2"	2"--11-1/2	150 psi	6-17/32"	**34K352**

304 Stainless Steel
Type A
55EF37

316 Stainless Steel
Type B
55MV89

Forged Brass
Type F
5CGD4

Aluminum
Type AA
26W655

Metal Cam and Groove Fittings

These fittings are hose couplings that connect or disconnect pipe, tubing, or hose without tools. Also known as camlock couplings, they consist of a grooved male adapter and a female cam that tighten together to form a seal.

304 and 316 Stainless Steel—Withstands pressure and high temperatures and resists corrosion when handling caustic chemicals, and other potentially corrosive fluids, oils, and gases.

Aluminum—Lightweight and corrosion-resistant, aluminum is more susceptible to scratches and wear unless alloyed with other metals for strength. Commonly used with water, chemicals, hydraulic oil, and petroleum products.

Forged Brass—Compatible with copper or zinc piping and maintains its durability at high temperatures, is highly conductive, and resists corrosion. Commonly used with water, coolants, gasolines, hydraulic oils, and petroleum products.

Dust Caps and Plugs—Seal leaks and prevent debris or other materials from entering the connection.

Coupling Size	Thread Size	Max. Working Pressure @ 70°F	304 Stainless Steel Item No.	316 Stainless Steel Item No.	Aluminum Item No.	Forged Brass Item No.
Type A						
Includes Locking Arm						
1"	1"-11½	250 psi	—	—	—	**5CGC7**
1½"	1½"-11½	250 psi	—	—	—	**5CGD5**
2"	1½"-11½	250 psi	—	—	**26W621**	—
2"	2"-11½	250 psi	—	—	—	**5CGE3**
2"	3"-8	125 psi	—	—	**26W622**	—
3"	2"-11½	125 psi	—	—	**26W623**	—
3"	3"-8	125 psi	—	—	—	**5CGF1**
3"	4"-8	100 psi	—	—	**26W624**	—
4"	3"-8	100 psi	—	—	**26W625**	—
4"	4"-8	100 psi	—	—	—	**5CGF9**
4"	6"-8	75 psi	—	—	**26W626**	—
6"	4"-8	75 psi	—	—	**26W627**	—
No Locking Arm						
½"	½"-14	150 psi	**743P19**	**55MV57**	**55MU97**	**55MH34**
¾"	¾"-14	150 psi	**743P20**	—	—	—
¾"	¾"-14	250 psi	—	**55MV58**	**55MU98**	**55MH62**
1"	1"-11½	250 psi	**743P21**	**3LW93**	**3LW92**	—
1¼"	1¼"-11½	250 psi	**55EF37**	—	—	**55MG64**
1¼"	1¼"-11-1/2	250 psi	—	**55MV59**	**55MU99**	—
1½"	1½"-11½	250 psi	**743P22**	**3LX10**	**3LX09**	—
2"	1½"-11½	250 psi	—	**55MF95**	—	—
2"	1½"-11-1/2	250 psi	—	—	**55MV01**	—
2"	2"-11½	250 psi	**743P23**	**3LX27**	**3LX26**	—
2½"	2½"-8	150 psi	—	**55MV60**	**55MV02**	**55MG91**
2½"	2½"-8	225 psi	**55EF38**	—	—	—
3"	2"-11-1/2	125 psi	—	**55MV61**	**55MV03**	—
3"	3"-8	125 psi	—	**3LX43**	**3LX42**	—
3"	3"-8	200 psi	**743P24**	—	—	—
4"	3"-8	100 psi	—	**55MV62**	**55MV04**	—
4"	4"-8	100 psi	**743P25**	**55MV63**	**3LX59**	—
5"	5"-8	75 psi	**55EF39**	**55MV64**	**55MV05**	**55MH18**
6"	6"-8	75 psi	**55EF40**	**55MV65**	**55MV06**	—
Type B						
Includes Locking Arm						
½"	½"-14	150 psi	—	**55MV89**	**55MV30**	**55MH37**
¾"	½"-14	150 psi	—	**55MH78**	—	—
¾"	¾"-14	250 psi	—	**55MV90**	**55MV31**	**55MG38**
1"	1"-11½	250 psi	—	**3LW95**	**3LW94**	**55MG39**
1"	1"-11½	250 psi	—	—	—	**5CGC8**
1¼"	1¼"-11-1/2	250 psi	—	**55MV91**	**55MV32**	—
1½"	1½"-11½	250 psi	—	**3LX12**	**3LX11**	**5CGD6**
2"	1½"-11½	250 psi	—	—	**26W636**	—
2"	2"-11½	250 psi	—	**3LX29**	**3LX28**	**5CGE4**
2½"	2½"-8	150 psi	—	**55MV92**	**55MV33**	**55MG94**
3"	2"-11½	125 psi	—	—	**26W637**	—
3"	3"-8	125 psi	—	**3LX45**	**3LX44**	**5CGF2**
3"	3"-8	250 psi	—	—	**4YGC2**	—
3"	4"-8	100 psi	—	—	**26W638**	—
4"	3"-8	100 psi	—	—	**26W639**	—
4"	4"-8	100 psi	—	**55MV93**	**3LX61**	**5CGG0**
4"	4"-8	250 psi	—	—	**4YGC3**	—
5"	5"-8	75 psi	—	**55MV94**	**55MV34**	**55MH20**
6"	6"-8	75 psi	—	**55MV95**	**55MV35**	—
No Locking Arm						
½"	½"-14	150 psi	**743P26**	—	—	—
¾"	¾"-14	150 psi	**743P27**	—	—	—
1"	1"-11½	250 psi	**743P28**	—	—	—
1¼"	1¼"-11½	250 psi	**55EF41**	—	—	—
1½"	1"-11½	250 psi	—	**55MF89**	**55MF88**	—
1½"	1½"-11½	250 psi	**743P29**	—	—	—
2"	1½"-11½	250 psi	—	**55MF96**	—	—
2"	2"-11½	250 psi	**743P30**	—	—	—
2"	3"-8	125 psi	—	—	**55MG03**	—
2½"	2½"-8	225 psi	**55EF42**	—	—	—
3"	2"-11½	125 psi	—	**55MG05**	—	—
3"	3"-8	200 psi	**743P31**	—	—	—
4"	3"-8	100 psi	—	**55MG11**	—	—
4"	4"-8	100 psi	**743P32**	—	—	—
5"	5"-8	75 psi	**55EF43**	—	—	—
6"	6"-8	75 psi	**55EF44**	—	—	—
Type D						
Includes Locking Arm						
½"	½"-14	150 psi	—	**55MW06**	**55MV45**	**55MH43**
¾"	¾"-14	250 psi	—	**55MW07**	**55MV46**	**55MH67**
1"	1"-11½	250 psi	—	**3LW99**	**3LW98**	**5CGD0**
1¼"	1¼"-11-1/2	250 psi	—	**55MW08**	**55MV47**	—
1½"	1½"-11½	250 psi	—	**3LX16**	**3LX15**	**5CGD8**
2"	1½"-11½	210 psi	—	—	**5CGG7**	—
2"	2"-11½	250 psi	—	**3LX33**	**3LX32**	**5CGE6**
2"	2"-11½	250 psi	—	—	**4YGD2**	—
2½"	2"-11½	150 psi	—	—	**5CGG8**	—
2½"	2½"-8	150 psi	—	**55MW09**	**55MV48**	**55MG54**
3"	2"-11½	125 psi	—	—	**26W628**	—
3"	3"-8	125 psi	—	**3LX49**	**3LX48**	**5CGF4**
3"	3"-8	250 psi	—	—	**4YKW2**	—
4"	3"-8	100 psi	—	—	**26W629**	—
4"	3"-8	120 psi	—	—	**5CGG9**	—
4"	4"-8	100 psi	—	**55MW10**	**3LX65**	**5CGG2**
4"	4"-8	250 psi	—	—	**4YKW3**	—
5"	5"-8	75 psi	—	**55MW11**	**55MV49**	**55MH24**
6"	6"-8	75 psi	—	**55MH89**	**55MG29**	—
6"	6"-8	75 psi	—	**55MW12**	**55MV50**	—
No Locking Arm						
½"	½"-14	150 psi	**743P40**	—	—	—
¾"	¾"-14	150 psi	**743P41**	—	—	—
1"	1"-11½	250 psi	**743P42**	—	—	—
1¼"	1¼"-11½	250 psi	**55EF49**	—	—	—
1½"	1"-11½	250 psi	—	**55MF92**	**55MF91**	—
1½"	1½"-11½	250 psi	**743P43**	—	—	—
2"	1½"-11½	250 psi	—	**55MF98**	**55MF97**	—
2"	2"-11½	250 psi	**743P44**	—	—	—
2½"	2½"-8	225 psi	**55EF50**	—	—	—
3"	2"-11½	125 psi	—	**55MG07**	—	—
3"	3"-8	200 psi	**743P45**	—	—	—
4"	3"-8	100 psi	—	**55MG13**	—	—
4"	4"-8	100 psi	**743P46**	—	—	—
5"	5"-8	75 psi	**55EF51**	—	—	—
6"	6"-8	75 psi	**55EF52**	—	—	—
Type F						
Includes Locking Arm						
2"	1½"-11½	250 psi	—	—	**26W632**	—
3"	2"-11½	125 psi	—	—	**26W633**	—
3"	4"-8	100 psi	—	—	**26W634**	—
4"	3"-8	100 psi	—	—	**26W635**	—
No Locking Arm						
½"	½"-14	150 psi	**743P54**	**55MV82**	**55MV22**	**55MH55**
¾"	¾"-14	150 psi	**743P55**	—	—	—
¾"	¾"-14	250 psi	—	**55MV83**	**55MV23**	**55MH77**
1"	1"-11½	250 psi	**743P56**	**3LX08**	**3LX07**	**5CGD4**
1¼"	1¼"-11½	250 psi	**55EF57**	—	—	**55MG84**
1¼"	1¼"-11-1/2	250 psi	—	**55MV84**	**55MV24**	—
1½"	1½"-11½	250 psi	**743P57**	**3LX24**	**3LX23**	**5CGE2**
2"	1½"-11½	250 psi	—	**55MG01**	—	—
2"	1½"-11-1/2	250 psi	—	—	**55MV25**	—
2"	2"-11½	250 psi	**743P58**	**3LX41**	**3LX40**	**5CGF0**
2½"	2½"-8	150 psi	—	**55MV85**	**55MV26**	**55MH10**
2½"	2½"-8	225 psi	**55EF58**	—	—	—
3"	2"-11½	125 psi	—	**55MG08**	—	—
3"	3"-8	125 psi	—	**3LX57**	**3LX56**	**5CGF8**
3"	3"-8	200 psi	**743P59**	—	—	—
4"	3"-8	100 psi	—	**55MG14**	**55MV27**	—
4"	4"-8	100 psi	**743P60**	**55MV86**	**3LX73**	**5CGG6**
5"	5"-8	75 psi	**55EF59**	**55MV87**	**55MV28**	**55MH32**
6"	6"-8	75 psi	**55EF60**	**55MV88**	**55MV29**	—

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type AA			
Includes Locking Arm			
1½"	250 psi	—	**26W655**
1½" x 2"	250 psi	—	**26W656**
2" x 4"	100 psi	—	**26W659**
2" x 3"	125 psi	**26W667**	**26W658**
2"	250 psi	**26W666**	**26W657**
3" x 4"	100 psi	—	**26W661**
3"	125 psi	**26W668**	**26W660**
4" x 5"	75 psi	—	**26W663**
4" x 6"	75 psi	—	**26W664**
4"	100 psi	—	**26W662**
6"	75 psi	—	**26W665**
No Locking Arm			
1½"	250 psi	**55MF84**	—
1½"	250 psi	**55MG85**	—
2"	250 psi	**55MG89**	—
6"	75 psi	**55MG15**	—
Type AL			
Includes Locking Arm			
2"	250 psi	**26W680**	**26W677**
3"	125 psi	**26W681**	**26W678**
4"	100 psi	**26W682**	**26W679**
No Locking Arm			
1"	250 psi	**55MF82**	—
1½"	250 psi	**55MF85**	—
6"	75 psi	—	**55MH57**
Type DA			
Includes Locking Arm			
1½" Socket x 1" Plug	250 psi	—	**26W640**
2" Socket x 3" Plug	125 psi	**26W652**	**26W641**
2" Socket x 4" Plug	100 psi	—	**26W642**
3" Socket x 2" Plug	100 psi	—	**55MG31**
3" Socket x 2" Plug	125 psi	**26W653**	**26W643**
3" Socket x 4" Plug	100 psi	—	**26W644**
4" Socket x 2" Plug	100 psi	—	**26W645**
4" Socket x 3" Plug	100 psi	**26W654**	**26W646**
4" Socket x 5" Plug	75 psi	—	**26W647**
4" Socket x 6" Plug	75 psi	—	**26W648**
5" Socket x 4" Plug	75 psi	—	**26W649**
6" Socket x 4" Plug	75 psi	—	**26W651**
No Locking Arm			
1½" Socket x 2" Plug	250 psi	**55MF94**	—
2" Socket x 2½" Plug	250 psi	—	**55MG02**

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CONTINUED

Metal Cam and Groove Fittings

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type DC			
Includes Locking Arm			
½"	150 psi	**55MW13**	**55MV51**
¾"	250 psi	**55MW14**	**55MV52**
1¼"	250 psi	**55MW15**	**55MV53**
2½"	150 psi	**55MW16**	**55MV54**
4"	100 psi	**55MW17**	—
5"	75 psi	**55MW18**	**55MV55**
6"	75 psi	**55MW19**	**55MV56**
Type DD			
Includes Locking Arm			
2" x 3"	125 psi	**26W675**	**26W670**
2"	250 psi	**26W674**	**26W669**
3" x 4"	100 psi	—	**26W672**
3"	125 psi	**26W676**	**26W671**
4"	100 psi	—	**26W673**
No Locking Arm			
1½"	250 psi	**55MF86**	—

Coupling Size	Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Item No.
Type DL			
Includes Locking Arm			
2"	250 psi	**26W686**	**26W683**
3"	125 psi	**26W687**	**26W684**
4"	100 psi	**26W688**	**26W685**
No Locking Arm			
1"	250 psi	**55MF83**	—
1½"	250 psi	**55MF87**	—
6"	75 psi	**55MG16**	—
Type DP			
No Locking Arm			
½"	150 psi	**55MV66**	**55MV07**
¾"	250 psi	**55MV67**	**55MV08**
1¼"	250 psi	**55MV68**	**55MV09**
2½"	150 psi	**55MV69**	**55MV10**
4"	100 psi	**55MV70**	—
5"	75 psi	**55MV71**	**55MV11**
6"	75 psi	**55MV72**	**55MV12**

Coupling Size	Hose Fitting Size	Max. Working Pressure @ 70°F	304 Stainless Steel Item No.	316 Stainless Steel Item No.	Aluminum Item No.	Forged Brass Item No.
Type C						
Includes Locking Arm						
½"	½"	150 psi	—	**55MV96**	**55MV36**	**55MH40**
¾"	¾"	250 psi	—	**55MV97**	**55MV37**	—
1"	1"	250 psi	—	**3LW97**	**3LW96**	**5CGC9**
1"	1"	250 psi	—	—	**55MG21**	—
1¼"	1¼"	250 psi	—	**55MV98**	**55MV38**	**55MG47**
1½"	1½"	250 psi	—	**3LX14**	**3LX13**	**5CGD7**
1½"	1½"	250 psi	—	—	**4YGC5**	—
2"	1½"	250 psi	—	—	**55MV39**	—
2"	2"	250 psi	—	**3LX31**	**3LX30**	**5CGE5**
2½"	2½"	150 psi	—	**55MV99**	**55MV40**	**55MG96**
3"	2"	125 psi	—	**55MW01**	**55MV41**	—
3"	3"	125 psi	—	**3LX47**	**3LX46**	**5CGF3**
3"	3"	250 psi	—	—	**4YGC7**	—
4"	3"	100 psi	—	**55MW02**	**55MV42**	—
4"	4"	100 psi	—	**55MW03**	**3LX63**	**5CGG1**
4"	4"	250 psi	—	—	**4YGC8**	—
5"	5"	75 psi	—	**55MW04**	**55MV43**	**55MH22**
6"	6"	75 psi	—	**55MW05**	**55MV44**	—
No Locking Arm						
½"	½"	150 psi	**743P33**	—	—	—
¾"	¾"	150 psi	**743P34**	—	—	—
1"	1"	250 psi	**743P35**	—	—	—
1¼"	1¼"	250 psi	**55EF45**	—	—	—
1½"	1"	250 psi	—	**55MF90**	—	—
1½"	1½"	250 psi	**743P36**	—	—	—
2"	2"	250 psi	**743P37**	—	—	—
2½"	2½"	225 psi	**55EF46**	—	—	—
3"	2½"	125 psi	—	**55MG09**	—	—
3"	3"	200 psi	**743P38**	—	—	—
3"	4"	100 psi	—	—	**55MG10**	—
4"	3"	100 psi	—	**55MG12**	—	—
4"	4"	100 psi	**743P39**	—	—	—
5"	5"	75 psi	**55EF47**	—	—	—
6"	6"	75 psi	**55EF48**	—	—	—
Type E						
No Locking Arm						
½"	½"	150 psi	**743P47**	**55MV73**	**55MV13**	**55MH52**
¾"	¾"	150 psi	**743P48**	—	—	—
¾"	¾"	250 psi	—	**55MV74**	**55MV14**	**55MH75**
1"	1"	250 psi	**743P49**	**3LX06**	**3LX05**	**5CGD3**
1¼"	1¼"	250 psi	**55EF53**	**55MV75**	**55MV15**	**55MG81**
1½"	1"	250 psi	—	**55MF93**	—	—
1½"	1½"	250 psi	**743P50**	**3LX22**	**3LX21**	**5CGE1**
2"	1½"	250 psi	—	**55MF99**	**55MV16**	—
2"	2"	250 psi	**743P51**	**3LX39**	**3LX38**	**5CGE9**
2½"	2½"	150 psi	—	**55MV76**	**55MV17**	**55MH07**
2½"	2½"	225 psi	**55EF54**	—	—	—
3"	2"	125 psi	—	**55MV77**	**55MV18**	—
3"	3"	125 psi	—	**3LX55**	**3LX54**	**5CGF7**
3"	3"	200 psi	**743P52**	—	—	—
4"	3"	100 psi	—	**55MV78**	**55MV19**	—
4"	3"	125 psi	—	—	**55MH16**	—
4"	4"	100 psi	**743P53**	**55MV79**	**3LX71**	**5CGG5**
5"	5"	75 psi	**55EF55**	**55MV80**	**55MV20**	**55MH30**
6"	6"	75 psi	**55EF56**	**55MV81**	**55MV21**	—

Coupling Size	316 Stainless Steel Max. Working Pressure @ 70°F	316 Stainless Steel Item No.	Aluminum Max. Working Pressure @ 70°F	Aluminum Item No.
Type DC, Dust Cap				
Includes Locking Arm				
1"	250 psi	**3LX02**	250 psi	**3LX01**
1½"	250 psi	**3LX18**	250 psi	**3LX17**
2"	250 psi	**3LX35**	250 psi	**3LX34**
3"	125 psi	**3LX51**	125 psi	**3LX50**
3"	—	—	250 psi	**4YKW7**
4"	—	—	100 psi	**3LX67**
4"	—	—	250 psi	**4YKW8**
Type DP, Dust Plug				
No Locking Arm				
1"	250 psi	**3LX04**	250 psi	**3LX03**
1½"	250 psi	**3LX20**	250 psi	**3LX19**
2"	250 psi	**3LX37**	250 psi	**3LX36**
3"	125 psi	**3LX53**	125 psi	**3LX52**
4"	—	—	100 psi	**3LX69**

41H428

Cam and Groove Gaskets

- Pkg qty. 1, except Nitrile Black Gaskets are 10

Flat cam and groove gaskets fit in the grooves of the female camlock or cam and groove couplings. The pressure of the fitting pushes against the gasket to create a tight seal.

For Coupling Size	Inside Dia.	Outside Dia.	Gasket Type	Thick-ness	Color Code Stripe	Brand	Item No.
EPDM, Black							
¾"	⅞"	1⅜"	Flat	0.2"	1 White	Banjo	**1MJV4**
1",-1-1/4"	1¹⁄₁₆"	1⁹⁄₁₆"	Flat	0.3"	1 White	Banjo	**1DPK5**
1½"	1⅝"	2³⁄₁₆"	Flat	0.25"	1 White	Banjo	**1DPN2**
2"	2"	2⅝"	Flat	0.3"	1 White	Banjo	**1MJR8**
2½"	2⁵⁄₁₆"	2½"	Flange	0.65"	1 Green, 1 Red	Anvil	**46KK81**
3"	3¼"	3"	Flange	0.65"	1 Green, 1 Red	Anvil	**46KK82**
3"	3"	3²³⁄₃₂"	Flat	0.3"	1 White	Banjo	**1MJT8**
4"	4³⁄₁₆"	4"	Flange	0.66"	1 Green, 1 Red	Anvil	**46KK83**
5"	5¼"	5"	Flange	0.66"	1 Green, 1 Red	Anvil	**46KK84**
5"	5"	5"	Roughneck	1.92"	1 Green	Anvil	**46KK76**
6"	6⁵⁄₁₆"	6"	Flange	0.66"	1 Green, 1 Red	Anvil	**46KK85**
6"	6¹⁄₁₆"	6"	Roughneck	1.92"	1 Green	Anvil	**46KK77**
8"	8⁵⁄₁₆"	8"	Flange	0.79"	1 Green, 1 Red	Anvil	**46KK86**
FKM, Green							
¾"	⅞"	1⅜"	Flat	0.22"	None	—	**41H424**
1"	1¹⁄₁₆"	1⁹⁄₁₆"	Flat	0.25"	None	—	**41H425**
1½"	1⅝"	2³⁄₁₆"	Flat	0.25"	None	—	**41H426**
2"	2"	2⅝"	Flat	0.25"	None	—	**41H427**
3"	3"	3¾"	Flat	0.25"	None	—	**41H428**
4"	4"	4⅞"	Flat	0.25"	None	—	**41H429**
Food-Grade Nitrile, White							
3"	3"	3¾"	Flat	0.25"	None	—	**41H433**
Nitrile, Black							
1"	1¹⁄₁₆"	1⁹⁄₁₆"	Flat	0.25"	1 Blue	—	**41H419**
1½"	1⅝"	2³⁄₁₆"	Flat	0.25"	1 Blue	—	**41H420**
2"	2"	2⅝"	Flat	0.25"	1 Blue	—	**41H421**
3"	3"	3¾"	Flat	0.25"	1 Blue	—	**41H422**
4"	4"	4⅞"	Flat	0.25"	1 Blue	—	**41H423**

6AKC0

3LX25

Hydrant Wrenches

For use in lawn care, in-plant maintenance, and municipal hydrant applications.

Item	Fits	L	Head Material	Handle Material	Brand	Item No.
Adjustable Hydrant Wrench	1½ in to 3 in Nut	16 9⁄16 in	Iron	Iron	—	**6AKC0**
Adjustable Hydrant Wrench	2½ in Pin Lug Couplings, 2½ to 5 in Rocker Lug Couplings, Up to 1¾ in Pentagon Nut, 1½ in Square Nut	16 13⁄16 in	Cast Manganese Bronze	Stainless Steel	Elkhart	**15Z087**
Adjustable Hydrant Wrench	¾ to 6 in Nuts and Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	19 in	Painted Steel	Plated Steel	Moon	**6ANU9**
Adjustable Hydrant Wrench	All Sizes of Pentagon or Square Hydrant nuts. Spanner Hook Fits Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	18 in	Steel	Iron	Moon	**3LX25**
Adjustable Hydrant Wrench	Less than 1¾ in Pentagon Nut	17 45⁄64 in	Plated Steel	Plated Steel	Moon	**20JP20**
Adjustable Storz Hydrant Wrench	All Sizes of Square and Pentagon Hydrant Nuts, Storz Hook Fits 4, 5 and 6 in Pin and Rocker Lug Fittings, Spanner Hook Fits Pin, Rocker or Navy Slot Lugs ¼ to 4½ in	18 in	Painted Steel	Plated Steel	Moon	**6ANV0**
Five Hole Hydrant Wrench	All Common Hydrant Nuts	14 ¼ in	Plated Iron	Plated Iron	Dixon	**6CLV4**
Pigtail Adjustable Hydrant Wrench	Less Than1½ in Nut, 1½ to 6 in Rocker Lugs, 2 to 4½ in Pin Lug, 1⅛ in Square Nuts	16 ¼ in	Plated Iron	Plated Steel	Dixon	**6CLV2**

Black Steel & Iron Pipe & Pipe Nipples, Schedule 40, 80 & 160

BECK

*Grainger's product supplier has certified that products marked "Made in USA" comply with "Made in USA" requirements in accordance with FTC rules and guidance.

- **MNPT connection**

Uncoated black steel, also called black malleable iron, is made from corrosion-resistant ungalvanized steel and includes a scaly, dark-colored iron oxide coating on the surface. Pipe connects with fittings to transport gas and water, protect electrical wiring, or deliver high-pressure steam and air. Threaded connections use PTFE tape to secure seal.

SCHEDULE 40: Low-pressure (100-299 psi). Used in low-pressure plumbing applications including air, water, oil, natural gas, and steam.

Schedule 40 Fully Threaded Nipple

Schedule 40 Threaded on Both Ends Nipple

Overall Length	Nominal Pipe Size	Metal Pipe Const.	Globally Sourced Item No.	Made in USA* Item No.
Schedule 40 Fully Threaded Low Pressure Pipe Nipples				
¾"	⅛"	Welded	**5P605**	**11X028**
⅞"	¼"	Welded	**5P619**	**11X039**
1"	⅜"	Welded	**5P633**	**11X052**
—	½"	Seamless	**5P650**	—
1⅛"	½"	Welded	—	**11X066**
1⅛"	¾"	Welded	**5P667**	—
1⅜"	¾"	Welded	—	**11X084**
1½"	1"	Welded	**5P684**	**11X099**
1⅜"	1¼"	Welded	**5P700**	—
1⅝"	1¼"	Welded	—	**11X122**
1¾"	1½"	Welded	**5P716**	**11X143**
2"	2"	Welded	**5P732**	**11X161**
2½"	2½"	Welded	**2WV63**	**11X179**
2⅝"	3"	Welded	**2WV71**	**11X193**
2⅞"	4"	Welded	**2WV79**	**12U007**
3⅛"	6"	Welded	—	**12U018**

Item	Overall Length	Metal Pipe Const.	Globally Sourced Item No.	Made in USA* Item No.
Schedule 40 Threaded on Both Ends Pipe & Pipe Nipples				
⅛" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P606**	**11X029**
	2 in	Welded	**5P607**	**11X030**
	2 ½ in	Welded	**5P608**	**11X031**
	3 in	Welded	**5P609**	**11X032**
	3 ½ in	Welded	**5P610**	**11X033**
	4 in	Welded	**5P611**	—
	4 ½ in	Welded	**5P612**	—
	5 in	Welded	**5P613**	**11X034**
	5 ½ in	Welded	**5P614**	—
	6 in	Welded	**5P615**	**11X035**
	8 in	Welded	**5P616**	**11X036**
	10 in	Welded	—	**11X037**
	12 in	Welded	**5P618**	**11X038**
¼" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P620**	**11X040**
	2 in	Welded	**5P621**	**11X041**
	2 ½ in	Welded	**5P622**	**11X042**
	3 in	Welded	**5P623**	**11X043**
	3 ½ in	Welded	**5P624**	**11X044**
	4 in	Welded	**5P625**	**11X045**
	4 ½ in	Welded	**5P626**	**11X046**
	5 in	Welded	**5P627**	**11X047**
	5 ½ in	Welded	**5P628**	**11X048**
	6 in	Welded	**5P629**	**11X049**
	8 in	Welded	**5P630**	**11X050**
	10 in	Welded	**5P631**	—
	12 in	Welded	**5P632**	**11X051**
⅜" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P634**	**11X053**
	2 in	Welded	**5P635**	**11X054**
	2 ½ in	Welded	**5P636**	**11X055**
	3 in	Welded	**5P637**	**11X056**
	3 ½ in	Welded	**5P638**	**11X057**
	4 in	Welded	**5P639**	**11X058**
	4 ½ in	Welded	**5P640**	**11X059**
	5 in	Welded	**5P641**	**11X060**
	5 ½ in	Welded	**5P642**	**11X061**
	6 in	Welded	**5P643**	**11X062**
	7 in	Welded	**5P644**	—
	8 in	Welded	**5P645**	**11X063**
	12 in	Welded	**5P649**	**11X065**
½" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P651**	**11X067**
	2 in	Welded	**5P652**	**11X068**
	2 ½ in	Welded	**5P653**	**11X069**
	3 in	Welded	**5P654**	**11X070**
	3 ½ in	Welded	**5P655**	**11X071**
	4 in	Welded	**5P656**	**11X072**
	4 ½ in	Welded	**5P657**	**11X073**
	5 in	Welded	**5P658**	**11X074**
	5 ½ in	Welded	**5P659**	**11X075**
	6 in	Welded	**5P660**	**11X076**
	7 in	Welded	**5P661**	**11X078**
	8 in	Welded	**5P662**	**11X079**
	10 in	Welded	**5P664**	**11X081**
	11 in	Welded	**5P665**	**11X082**
	12 in	Welded	**5P666**	**11X083**
Pipe	1-1/2 ft	Welded	**5P747**	—
	2 ft	Welded	**5P748**	—
	2-1/2 ft	Welded	**5P749**	—
	3 ft	Welded	**5P750**	—
	4 ft	Welded	**5P751**	—
	5 ft	Welded	**5P752**	—
	6 ft	Welded	**5P753**	—
	10 ft	Welded	**5E550**	—
¾" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P668**	**11X085**
	2 in	Welded	**5P669**	**11X086**
	2 ½ in	Welded	**5P670**	**11X087**
	3 in	Welded	**5P671**	**11X088**
	3 ½ in	Welded	**5P672**	—
	4 in	Welded	**5P673**	**11X089**
	4 ½ in	Welded	**5P674**	—
	5 in	Welded	**5P675**	**11X090**
	5 ½ in	Welded	**5P676**	—
	6 in	Welded	**5P677**	**11X091**
	8 in	Welded	**5P679**	**11X093**
	10 in	Welded	**5P681**	**11X095**
	12 in	Welded	**5P683**	**11X098**
Pipe	1-1/2 ft	Welded	**5P755**	—
	2 ft	Welded	**5P756**	—
	2-1/2 ft	Welded	**5P757**	—
	3 ft	Welded	**5P758**	—
	4 ft	Welded	**5P759**	—
	5 ft	Welded	**5P760**	—
	6 ft	Welded	**5P761**	—
	10 ft	Welded	**5E551**	—
1" Nominal Pipe Size				
Nipple	2 in	Welded	**5P685**	**11X101**
	2 ½ in	Welded	**5P686**	**11X102**
	3 in	Welded	**5P687**	**11X103**
	3 ½ in	Welded	**5P688**	**11X104**
	4 in	Welded	**5P689**	**11X105**
	4 ½ in	Welded	**5P690**	**11X106**
	5 in	Welded	**5P691**	**11X107**
	5 ½ in	Welded	**5P692**	**11X108**
	6 in	Welded	**5P693**	**11X109**
	6 ½ in	Welded	**34DD18**	**11X110**
	7 in	Welded	**5P694**	**11X111**
	8 in	Welded	**5P695**	**11X113**
	9 in	Welded	**5P696**	**11X115**
	10 in	Welded	**5P697**	**11X117**
	11 in	Welded	**5P698**	**11X119**
	12 in	Welded	**5P699**	**11X121**
Pipe	1-1/2 ft	Welded	**5P763**	—
	2 ft	Welded	**5P764**	—
	2-1/2 ft	Welded	**5P765**	—
	3 ft	Welded	**5P766**	—
	4 ft	Welded	**5P767**	—
	5 ft	Welded	**5P768**	—
	6 ft	Welded	**5P769**	—
	10 ft	Welded	**5E552**	—
1¼" Nominal Pipe Size				
Nipple	2 in	Welded	**5P701**	**11X123**
	2 ½ in	Welded	**5P702**	**11X124**
	3 in	Welded	**5P703**	**11X125**
	3 ½ in	Welded	**5P704**	**11X126**
	4 in	Welded	**5P705**	**11X127**
	4 ½ in	Welded	**5P706**	**11X128**
	5 in	Welded	**5P707**	**11X129**
	5 ½ in	Welded	**5P708**	**11X130**
	6 in	Welded	**5P709**	**11X131**
	6 ½ in	Welded	**34DD22**	**11X132**
	7 in	Welded	**5P710**	**11X133**
	8 in	Welded	**5P711**	**11X134**
	9 in	Welded	**5P712**	**11X136**
	10 in	Welded	**5P713**	**11X138**
	11 in	Welded	**34DD25**	**11X140**
	12 in	Welded	**5P715**	**11X142**
Pipe	1-1/2 ft	Welded	**5P771**	—
	2 ft	Welded	**5P772**	—
	3 ft	Welded	**5P774**	—
	4 ft	Welded	**5P775**	—
	5 ft	Welded	**2WV57**	—
	6 ft	Welded	**5P777**	—
	10 ft	Welded	**5E553**	—
1½" Nominal Pipe Size				
Nipple	2 in	Welded	**5P717**	**11X144**
	2 ½ in	Welded	**5P718**	**11X145**
	3 in	Welded	**5P719**	**11X146**
	3 ½ in	Welded	**5P720**	**11X147**
	4 in	Welded	**5P721**	**11X148**
	4 ½ in	Welded	**5P722**	**11X149**
	5 in	Welded	**5P723**	**11X150**
	5 ½ in	Welded	**5P724**	**11X151**
	6 in	Welded	**5P725**	**11X152**
	6 ½ in	Welded	**34DD27**	**11X153**
	7 in	Welded	**5P726**	**11X154**
	8 in	Welded	**5P727**	**11X155**
	9 in	Welded	**5P728**	**11X156**
	10 in	Welded	**5P729**	**11X158**
	12 in	Welded	**5P731**	**11X160**
Pipe	1-1/2 ft	Welded	**5P779**	—
	2 ft	Welded	**5P780**	—
	2-1/2 ft	Welded	**5P781**	—
	3 ft	Welded	**5P782**	—
	4 ft	Welded	**5P783**	—
	5 ft	Welded	**5P784**	—
	10 ft	Welded	**5E554**	—
2" Nominal Pipe Size				
Nipple	2 ½ in	Welded	**5P733**	**11X162**
	3 in	Welded	**5P734**	**11X163**
	3 ½ in	Welded	**5P735**	**11X164**
	4 in	Welded	**5P736**	**11X165**
	4 ½ in	Welded	**5P737**	**11X166**
	5 in	Welded	**5P738**	**11X167**
	5 ½ in	Welded	**5P739**	**11X168**
	6 in	Welded	**5P740**	**11X169**
	7 in	Welded	—	**11X171**
	8 in	Welded	**5P742**	**11X173**
	10 in	Welded	**5P744**	**11X176**
	12 in	Welded	**5P746**	**11X178**
Pipe	1-1/2 ft	Welded	**5P787**	—
	2 ft	Welded	**5P788**	—
	2-1/2 ft	Welded	**5P789**	—
	3 ft	Welded	**5P790**	—
	4 ft	Welded	**5P791**	—
	10 ft	Welded	**5E555**	—
2½" Nominal Pipe Size				
Nipple	3 in	Welded	**2WV64**	**11X180**
	4 in	Welded	—	**11X182**
	5 in	Welded	—	**11X184**
	6 in	Welded	**2WV67**	**11X186**
	12 in	Welded	**2WV70**	**11X192**
Pipe	10 ft	Welded	**40L308**	—
3" Nominal Pipe Size				
Nipple	3 in	Welded	**2WV72**	**11X194**
	3 ½ in	Welded	**34DD51**	**11X195**
	4 in	Welded	—	**11X196**
	4 ½ in	Welded	**34DD53**	**11X197**
	5 in	Welded	**2WV74**	**11X198**
	6 in	Welded	**2WV75**	**12T994**
	8 in	Welded	**2WV76**	**12T998**
	10 in	Welded	**2WV77**	**12U003**
	11 in	Welded	—	**12U005**
	12 in	Welded	**2WV78**	**12U006**
Pipe	10 ft	Welded	**40L309**	—
4" Nominal Pipe Size				
Nipple	3 ½ in	Welded	—	**12U008**
	4 in	Welded	**2WV80**	**12U009**
	5 in	Welded	**2WV81**	**12U011**
	6 in	Welded	**2WV82**	**12U013**
	8 in	Welded	**2WV83**	**12U015**
	10 in	Welded	**2WV84**	**12U016**
	12 in	Welded	**2WV85**	**12U017**
Pipe	10 ft	Welded	**40L310**	—
6" Nominal Pipe Size				
Nipple	3 in	Welded	**34DD72**	—
	4 in	Welded	**34DD73**	**12U020**
	5 in	Welded	—	**12U022**
	6 in	Welded	**34DD75**	**12U024**
	12 in	Welded	**34DD79**	**12U036**

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Black Steel & Iron Pipe & Pipe Nipples, Schedule 40, 80 & 160

BECK

*Grainger's product supplier has certified that products marked "Made in USA" comply with "Made in USA" requirements in accordance with FTC rules and guidance.

SCHEDULE 80: Medium-pressure (300-999 psi). Pipe has thicker walls than schedule 40, and is commonly used in steam, water, air and gas lines.

Overall Length	Metal Pipe Const.	Globally Sourced Item No.	Made in USA* Item No.
Schedule 80 Unthreaded Medium Pressure Pipe			
⅛" Nominal Pipe Size			
12"	Welded	32UK81	—
3-ft	Welded	32UK82	—
6-ft	Welded	32UK83	—
⅜" Nominal Pipe Size			
12"	Welded	—	32UK84
3-ft	Welded	—	32UK85
6-ft	Welded	—	32UK86
½" Nominal Pipe Size			
12"	Welded	1CPT6	32UK87
3-ft	Welded	—	32UK88
6-ft	Welded	—	32UK89
¾" Nominal Pipe Size			
12"	Welded	1CPT9	32UK90
3-ft	Welded	—	32UK91
6-ft	Welded	—	32UK92
1" Nominal Pipe Size			
12"	Welded	1CPV3	32UK93
3-ft	Welded	—	32UK94
6-ft	Welded	—	32UK95
1¼" Nominal Pipe Size			
12"	Welded	1CPV6	32UK96
3-ft	Welded	—	32UK97
6-ft	Welded	—	32UK98
1½" Nominal Pipe Size			
12"	Welded	1CPV9	32UK99
3-ft	Welded	—	32UL01
6-ft	Welded	—	32UL02
2" Nominal Pipe Size			
12"	Welded	1CPW3	32UL03
3-ft	Welded	—	32UL04
6-ft	Welded	—	32UL05
2½" Nominal Pipe Size			
3-ft	Welded	1CPW7	32UL07
6-ft	Welded	1CPW8	32UL08
12"	Welded	1CPW6	32UL06
3" Nominal Pipe Size			
12"	Welded	1CPW9	32UL09
6-ft	Welded	1CPX2	32UL11
3-ft	Welded	1CPX1	32UL10
4" Nominal Pipe Size			
12"	Welded	1CPX3	32UL12
3-ft	Welded	—	32UL13
6-ft	Welded	—	32UL14

Nominal Pipe Size	Overall Length	Metal Pipe Const.	Globally Sourced Approved Vendor Item No.	Beck Item No.
Schedule 80 Fully Threaded Medium Pressure Nipples				
⅛"	¾"	Seamless	1LLU4	—
⅛"	—	Seamless	—	20H641
¼"	⅞"	Seamless	1LLW9	—
¼"	—	Seamless	—	20H658
⅜"	1"	Seamless	1LLZ5	—
⅜"	—	Seamless	—	20H675
½"	1⅛"	Seamless	1LMC1	—
½"	—	Seamless	—	20H692
½"	1⅛"	Welded	1XKX3	—
¾"	1⅛"	Seamless	1LME6	—
¾"	—	Seamless	—	20H710
¾"	1⅛"	Welded	1XKZ2	—
1"	—	Seamless	—	20H727
1"	1½"	Seamless	1LMJ2	—
1¼"	—	Seamless	—	20H743
1¼"	1⅜"	Seamless	1LML6	—
1½"	—	Seamless	—	20H759
1½"	1¾"	Seamless	1LMR1	—
2"	2"	Seamless	1LMU6	—
2"	—	Seamless	—	20H775
2½"	—	Seamless	—	20H790
3"	—	Seamless	—	20H805
4"	—	Seamless	—	20H819
5"	—	Seamless	—	20H831
6"	—	Seamless	—	20H842

Schedule 80 Unthreaded Pipe

Schedule 80 Fully Threaded Nipple

Schedule 80 Threaded on Both Ends Nipple

Item	Overall Length	Metal Pipe Const.	Globally Sourced Approved Vendor Item No.	Beck Item No.
Schedule 80 Threaded on Both Ends Pipe & Nipples				
⅛" Nominal Pipe Size				
Nipple	1 ½ in	Seamless	1LLU5	20H642
	2 in	Seamless	1LLU6	20H643
	2 ½ in	Seamless	1LLU7	20H644
	3 in	Seamless	1LLU8	20H645
	3 ½ in	Seamless	1LLU9	20H646
	4 in	Seamless	1LLV1	20H647
	4 ½ in	Seamless	1LLV2	20H648
	5 in	Seamless	1LLV3	20H649
	5 ½ in	Seamless	—	20H650
	6 in	Seamless	1LLV5	20H651
	10 in	Seamless	—	20H655
¼" Nominal Pipe Size				
Nipple	1 ½ in	Seamless	—	20H659
	2 in	Seamless	1LLX2	20H660
	2 ½ in	Seamless	1LLX3	20H661
	3 in	Seamless	1LLX4	20H662
	3 ½ in	Seamless	1LLX5	20H663
	4 in	Seamless	1LLX6	20H664
	4 ½ in	Seamless	1LLX7	20H665
	5 in	Seamless	1LLX8	20H666
	5 ½ in	Seamless	1LLX9	20H667
	6 in	Seamless	1LLY1	20H668
	8 in	Seamless	—	20H670
	9 in	Seamless	—	20H671
⅜" Nominal Pipe Size				
Nipple	1 ½ in	Seamless	1LLZ6	20H676
	2 in	Seamless	1LLZ7	20H677
	2 ½ in	Seamless	1LLZ8	20H678
	3 in	Seamless	1LLZ9	20H679
	3 ½ in	Seamless	—	20H680
	4 in	Seamless	1LMA2	20H681
	4 ½ in	Seamless	1LMA3	20H682
	5 in	Seamless	1LMA4	20H683
	5 ½ in	Seamless	1LMA5	20H684
	6 in	Seamless	1LMA6	20H685
Pipe	4 ft	Seamless	1LMB7	—
	6 ft	Seamless	1LMB9	—
½" Nominal Pipe Size				
Nipple	1 ½ in	Seamless	1LMC2	20H693
	1 ½ in	Welded	1XKX4	—
	2 in	Seamless	1LMC3	20H694
	2 ½ in	Seamless	1LMC4	20H695
	2 in	Welded	1XKX5	—
	3 in	Seamless	1LMC5	20H696
	3 ½ in	Seamless	1LMC6	20H697
	3 in	Welded	1XKX7	—
	3 ½ in	Welded	1XKX8	—
	4 in	Seamless	1LMC7	20H698
	4 ½ in	Seamless	1LMC8	20H699
	5 in	Seamless	1LMC9	20H701
	5 ½ in	Seamless	1LMD1	20H702
	5 ½ in	Welded	1XKY3	—
	6 in	Seamless	1LMD2	20H703
	6 in	Welded	1XKY4	—
	7 in	Welded	1XKY5	—
	8 in	Seamless	1LMD4	20H705
	10 in	Seamless	1LMD6	20H707
	12 in	Seamless	1LMD8	20H709
	12 in	Welded	1XKZ1	—
Pipe	1-1/2 ft	Seamless	1LMD9	—
	2 ft	Seamless	1LME1	—
	3 ft	Seamless	1LME2	—
	4 ft	Seamless	1LME3	—
	5 ft	Seamless	1LME4	—
	6 ft	Seamless	1LME5	—
¾" Nominal Pipe Size				
Nipple	1 ½ in	Seamless	1LME7	20H711
	1 ½ in	Welded	1XKZ3	—
	2 in	Seamless	1LME8	20H712
	2 ½ in	Seamless	1LME9	20H713
	2 in	Welded	1XKZ4	—
	2 ½ in	Welded	1XKZ5	—
	3 in	Seamless	1LMG1	20H714
	3 ½ in	Seamless	1LMG2	20H715
	3 in	Welded	1XKZ6	—
	3 ½ in	Welded	1XKZ7	—
	4 in	Seamless	1LMG3	20H716
	4 ½ in	Seamless	1LMG4	20H717
	4 in	Welded	1XKZ8	—
	4 ½ in	Welded	1XKZ9	—
	5 in	Seamless	1LMG5	20H718
	5 ½ in	Seamless	1LMG6	20H719
	5 in	Welded	1XLA1	—
	5 ½ in	Welded	1XLA2	—
	6 in	Seamless	1LMG7	20H720
	6 in	Welded	1XLA3	—
	7 in	Seamless	1LMG8	20H721
	8 in	Seamless	1LMG9	20H722
	8 in	Welded	1XLA5	—
	9 in	Seamless	1LMH1	—
	10 in	Seamless	1LMH2	20H724
	10 in	Welded	1XLA7	—
	12 in	Seamless	1LMH4	20H726
	12 in	Welded	1XLA9	—
Pipe	1-1/2 ft	Seamless	1LMH5	—
	3 ft	Seamless	1LMH7	—
	4 ft	Seamless	1LMH8	—
	5 ft	Seamless	1LMH9	—
	6 ft	Seamless	1LMJ1	—
1" Nominal Pipe Size				
Nipple	1 ½ in	Welded	1XLB1	—
	2 in	Seamless	1LMJ3	20H728
	2 ½ in	Seamless	1LMJ4	20H729
	2 in	Welded	1XLB2	—
	2 ½ in	Welded	1XLB3	—
	3 in	Seamless	1LMJ5	20H730
	3 ½ in	Seamless	1LMJ6	20H731
	3 in	Welded	1XLB4	—
	3 ½ in	Welded	1XLB5	—
	4 in	Seamless	1LMJ7	20H732
	4 ½ in	Seamless	1LMJ8	20H733
	4 in	Welded	1XLB6	—
	4 ½ in	Welded	1XLB7	—
	5 in	Seamless	1LMJ9	20H734
	5 ½ in	Seamless	1LMK1	20H735
	5 in	Welded	1XLB8	—
	5 ½ in	Welded	1XLB9	—
	6 in	Seamless	1LMK2	20H736
	7 in	Seamless	1LMK3	20H737
	8 in	Seamless	1LMK4	20H738
	8 in	Welded	1XLC3	—
	10 in	Seamless	1LMK6	20H740
	10 in	Welded	1XLC5	—
	12 in	Seamless	1LMK8	20H742
Pipe	1-1/2 ft	Seamless	1LMK9	—
	2 ft	Seamless	1LML1	—
	3 ft	Seamless	1LML2	—
	4 ft	Seamless	1LML3	—
	5 ft	Seamless	1LML4	—
	6 ft	Seamless	1LML5	—
1¼" Nominal Pipe Size				
Nipple	1 ⅜ in	Welded	1XLC8	—
	2 in	Seamless	1LML7	20H744
	2 ½ in	Seamless	1LML8	20H745
	2 in	Welded	1XLC9	—
	3 in	Seamless	1LML9	20H746
	3 ½ in	Seamless	1LMN1	20H747
	3 in	Welded	1XLD2	—
	4 in	Seamless	1LMN2	20H748
	4 ½ in	Seamless	1LMN3	20H749
	4 in	Welded	1XLD4	—
	4 ½ in	Welded	1XLD5	—
	5 in	Seamless	1LMN4	20H750
	5 ½ in	Seamless	1LMN5	20H751
	5 in	Welded	1XLD6	—
	5 ½ in	Welded	1XLD7	—
	6 in	Seamless	1LMN6	20H752
	6 in	Welded	1XLD8	—
	7 in	Seamless	1LMN7	20H753
	7 in	Welded	1XLD9	—
	8 in	Seamless	1LMN8	20H754
	8 in	Welded	1XLE1	—
	9 in	Seamless	1LMN9	20H755
	9 in	Welded	1XLE2	—
	10 in	Seamless	1LMP1	20H756
	10 in	Welded	1XLE3	—
	11 in	Seamless	1LMP2	20H757
	11 in	Welded	1XLE4	—
	12 in	Seamless	1LMP3	20H758
	12 in	Welded	1XLE5	—
Pipe	2 ft	Seamless	1LMP5	—
	4 ft	Seamless	1LMP7	—
	5 ft	Seamless	1LMP8	—
	6 ft	Seamless	1LMP9	—
1½" Nominal Pipe Size				
Nipple	1 ¾ in	Welded	1XLE6	—
	2 in	Seamless	1LMR2	20H760
	2 ½ in	Seamless	1LMR3	20H761
	3 in	Seamless	1LMR4	20H762
	3 ½ in	Seamless	1LMR5	20H763
	3 in	Welded	1XLE9	—
	4 in	Seamless	1LMR6	20H764
	4 ½ in	Seamless	1LMR7	20H765
	4 in	Welded	1XLF2	—
	4 ½ in	Welded	1XLF3	—
	5 in	Seamless	1LMR8	20H766
	5 ½ in	Seamless	1LMR9	20H767
	6 in	Seamless	1LMT1	20H768
	6 in	Welded	1XLF6	—
	7 in	Seamless	1LMT2	20H769
	8 in	Seamless	1LMT4	20H770
	8 in	Welded	1XLF8	—
	10 in	Seamless	1LMT6	20H772
	12 in	Seamless	1LMT8	20H774
	12 in	Welded	1XLG3	—
Pipe	2 ft	Seamless	1LMU1	—
	3 ft	Seamless	1LMU2	—
	6 ft	Seamless	1LMU5	—
2" Nominal Pipe Size				
Nipple	2 ½ in	Seamless	1LMU7	20H776
	2 ½ in	Welded	1XLG5	—
	3 in	Seamless	1LMU8	20H777
	3 ½ in	Seamless	1LMU9	20H778
	3 in	Welded	1XLG6	—
	3 ½ in	Welded	1XLG7	—
	4 in	Seamless	1LMV1	20H779
	4 ½ in	Seamless	1LMV2	20H780
	4 in	Welded	1XLG8	—
	4 ½ in	Welded	1XLG9	—
	5 in	Seamless	1LMV3	20H781
	5 ½ in	Seamless	1LMV4	20H782
	5 in	Welded	1XLH1	—
	5 ½ in	Welded	1XLH2	—
	6 in	Seamless	1RJR2	20H783
	6 in	Welded	1XLH3	—
	7 in	Seamless	1RJR3	—
	7 in	Welded	1XLH4	—
	8 in	Seamless	1RJR4	20H785
	8 in	Welded	1XLH5	—
	9 in	Seamless	1RJR5	20H786
	9 in	Welded	1XLH6	—
	10 in	Seamless	1RJR6	20H787
	10 in	Welded	1XLH7	—
	12 in	Seamless	1RJR8	20H789
Pipe	2 ft	Seamless	1RJT1	—
	3 ft	Seamless	1RJT2	—
	4 ft	Seamless	1RJT3	—
	5 ft	Seamless	1RJT4	—
	6 ft	Seamless	1RJT5	—
2½" Nominal Pipe Size				
Nipple	3 in	Seamless	—	20H791
	3 ½ in	Seamless	—	20H792
	4 in	Seamless	—	20H793
	4 ½ in	Seamless	—	20H794
	5 in	Seamless	—	20H795
	5 ½ in	Seamless	—	20H796
	6 in	Seamless	1RJT7	20H797
	6 in	Welded	1XLJ2	—
	7 in	Seamless	1RJT8	20H798
	7 in	Welded	1XLJ3	—
	8 in	Seamless	—	20H799
	11 in	Seamless	1RJU3	20H803
Pipe	2 ft	Seamless	1RJU6	—
	4 ft	Seamless	1RJU8	—
	5 ft	Seamless	1RJU9	—
3" Nominal Pipe Size				
Nipple	3 in	Seamless	—	20H806
	3 ½ in	Seamless	—	20H807
	4 in	Seamless	—	20H808
	4 ½ in	Seamless	—	20H809
	5 in	Seamless	—	20H810
	5 ½ in	Seamless	—	20H811
	6 in	Seamless	1RJV3	20H812
	6 in	Welded	1XLK1	—
	12 in	Welded	1XLK7	—
Pipe	1-1/2 ft	Seamless	1RJW1	—
	2 ft	Seamless	1RJW2	—
	3 ft	Seamless	1RJW3	—
	6 ft	Seamless	1RJW6	—
4" Nominal Pipe Size				
Nipple	4 in	Seamless	—	20H820
	6 in	Seamless	—	20H824
	8 in	Seamless	—	20H826
	12 in	Seamless	—	20H830
5" Nominal Pipe Size				
Nipple	10 in	Seamless	—	20H839
	12 in	Seamless	—	20H841

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Black Steel & Iron Pipe & Pipe Nipples, Schedule 40, 80 & 160

SCHEDULE 160: High-pressure (1000-3000 psi). Used in noncorrosive environments, they have the thickest walls compared to pipe with lower schedule numbers.

Schedule 160 Threaded on Both Ends Nipple

Schedule 160 Fully Threaded Nipple

Nominal Pipe Size	Overall Length	Metal Pipe Const.	Globally Sourced Approved Vendor Item No.
Schedule 160 Fully Threaded High Pressure Pipe Nipples			
1¼"	1⅜"	Seamless	1RKB3
1½"	1¾"	Seamless	1RKC7
2"	2"	Seamless	1RKE2
2½"	2½"	Seamless	1RKF5
4"	2⅞"	Seamless	1RKH9

Item	Overall Length	Metal Pipe Const.	Globally Sourced Approved Vendor Item No.
Schedule 160 Threaded on Both Ends Pipe & Nipples			
½" Nominal Pipe Size			
Nipple	1 ⅛ in	Seamless	1RJW7
	1 ½ in	Seamless	1RJW8
	2 in	Seamless	1RJW9
	2 ½ in	Seamless	1RJX1
	3 in	Seamless	1RJX2
	4 in	Seamless	1RJX3
	5 in	Seamless	1RJX4
	6 in	Seamless	1RJX5
	8 in	Seamless	1RJX6
	10 in	Seamless	1RJX7
	12 in	Seamless	1RJX8
Pipe	2 ft	Seamless	1RJY1
	3 ft	Seamless	1RJY2
¾" Nominal Pipe Size			
Nipple	1 ⅛ in	Seamless	1RJY3
	1 ½ in	Seamless	1RJY4
	2 in	Seamless	1RJY5
	2 ½ in	Seamless	1RJY6
	3 in	Seamless	1RJY7
	4 in	Seamless	1RJY8
	5 in	Seamless	1RJY9
	6 in	Seamless	1RJZ1
	8 in	Seamless	1RJZ2
	10 in	Seamless	1RJZ3
	12 in	Seamless	1RJZ4
Pipe	1-1/2 ft	Seamless	1RJZ5
	2 ft	Seamless	1RJZ6
	3 ft	Seamless	1RJZ7
1" Nominal Pipe Size			
Nipple	1 ½ in	Seamless	1RJZ8
	2 in	Seamless	1RJZ9
	2 ½ in	Seamless	1RKA1
	3 in	Seamless	1RKA2
	4 in	Seamless	1RKA3
	5 in	Seamless	1RKA4
	6 in	Seamless	1RKA5
	8 in	Seamless	1RKA6
	10 in	Seamless	1RKA7
	12 in	Seamless	1RKA8
Pipe	1-1/2 ft	Seamless	1RKA9
	3 ft	Seamless	1RKB2
1¼" Nominal Pipe Size			
Nipple	2 in	Seamless	1RKB4
	2 ½ in	Seamless	1RKB5
	3 in	Seamless	1RKB6
	4 in	Seamless	1RKB7
	5 in	Seamless	1RKB8
	6 in	Seamless	1RKB9
	8 in	Seamless	1RKC1
	10 in	Seamless	1RKC2
	12 in	Seamless	1RKC3
Pipe	1-1/2 ft	Seamless	1RKC4
	2 ft	Seamless	1RKC5
1½" Nominal Pipe Size			
Nipple	2 in	Seamless	1RKC8
	2 ½ in	Seamless	1RKC9
	3 in	Seamless	1RKD1
	4 in	Seamless	1RKD2
	5 in	Seamless	1RKD3
	6 in	Seamless	1RKD4
	8 in	Seamless	1RKD5
	10 in	Seamless	1RKD6
	12 in	Seamless	1RKD7
Pipe	3 ft	Seamless	1RKE1
2" Nominal Pipe Size			
Nipple	2 ½ in	Seamless	1RKE3
	3 in	Seamless	1RKE4
	4 in	Seamless	1RKE5
	5 in	Seamless	1RKE6
	6 in	Seamless	1RKE7
	8 in	Seamless	1RKE8
	10 in	Seamless	1RKE9
	12 in	Seamless	1RKF1
Pipe	1-1/2 ft	Seamless	1RKF2
	2 ft	Seamless	1RKF3
3" Nominal Pipe Size			
Nipple	3 in	Seamless	1RKG8
	4 in	Seamless	1RKG9
	6 in	Seamless	1RKH2
	8 in	Seamless	1RKH3
	12 in	Seamless	1RKH5

60 Pieces
6KC75

Black Steel & Iron Pipe Nipple Assortments, Schedule 40

- NPT connection
- Welded construction
- Low-pressure (100-299 psi)

Schedule 40 pipe nipples have thicker walls than Schedule 10, but not as thick as Schedule 80.

Nominal Pipe Size	Included Lengths (All items include 6 of each size)	No. of Pieces	Item No.
¼"	Close, 1½", 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	66	4PRV1
⅜"			4PRV3
½"			6KC72
¾"			6KC73
1"	Close, 2", 2½", 3", 3½", 4", 4½", 5", 5½", 6"	60	6KC74
1 ¼"			6KC75
1 ½"			6KC76
2"	Close, 2½", 3", 3½", 4", 4½", 5", 5½", 6"	54	6KC77

Threaded Uncoated Black Steel & Iron Pipe Fittings, Class 125, 150, 300 & 3000

- Tees read: run x run x outlet

Connect to black steel and black iron pipe for transporting gas and water, protecting electrical wiring, or delivering high-pressure steam and air. Also called black malleable iron fittings, they are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating. Used in piping systems to change direction or connect to equipment or devices. Threaded fittings twist onto pipe using various male and female thread connections.

CLASS 125: Low pressure (100-299 psi). Designed for use in fire protection applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Anvil Item No.
Class 125 Low Pressure Pipe Fittings				
22.5° Elbow	¾" x ¾"	FNPT	Cast Iron	4KUR7
	1" x 1"	FNPT	Cast Iron	4KUR8
	1¼" x 1¼"	FNPT	Cast Iron	4KUR9
	1½" x 1½"	FNPT	Cast Iron	4KUT1
	2" x 2"	FNPT	Cast Iron	4KUT2
45° Elbow	2" x 2"	FNPT	Cast Iron	4KUR3
90° Elbow	¼" x ¼"	FNPT	Cast Iron	4KUJ5
	½" x ½"	FNPT	Cast Iron	4KUJ7
	¾" x ¾"	FNPT	Cast Iron	4KUJ8
	1" x 1"	FNPT	Cast Iron	4KUJ9
	1¼" x 1¼"	FNPT	Cast Iron	4KUK1
	1½" x 1½"	FNPT	Cast Iron	4KUK2
	2" x 2"	FNPT	Cast Iron	4KUK3
	2½" x 2½"	FNPT	Cast Iron	4KUK4
	3" x 3"	FNPT	Cast Iron	4KUK5
Cross	1" x 1" x 1" x 1"	FNPT	Cast Iron	4KVN4
Eccentric Reducer Coupling	1¼" x ¾"	FNPT	Cast Iron	4KVY4
	1¼" x ½"	FNPT	Cast Iron	4KVY5
	1½" x ¾"	FNPT	Cast Iron	4KVY8
	2" x 1½"	FNPT	Cast Iron	4KVZ1
Hex Bushing	2½" x ¾"	MNPT x FNPT	Cast Iron	4WJN2
	3" x ¾"	MNPT x FNPT	Cast Iron	4WJN8
	3" x 1"	MNPT x FNPT	Cast Iron	4WJN9
	3" x 1½"	MNPT x FNPT	Cast Iron	4WJP2
	3" x 2"	MNPT x FNPT	Cast Iron	4WJP3
	3" x 2½"	MNPT x FNPT	Cast Iron	4WJP4
	3½" x 2"	MNPT x FNPT	Cast Iron	4WJP8
	3½" x 3"	MNPT x FNPT	Cast Iron	4WJR1
	4" x 1"	MNPT x FNPT	Cast Iron	4WJR2
	4" x 2"	MNPT x FNPT	Cast Iron	4WJR5
	4" x 3"	MNPT x FNPT	Cast Iron	4WJR7
Reducing Cross	1" x 1" x ¾" x ¾"	FNPT	Cast Iron	4KVP1
Reducing Tee	2" x 2" x 1"	FNPT	Cast Iron	4KVA9
	2" x 2" x ¾"	FNPT	Cast Iron	4KVC1
Tee	½" x ½" x ½"	FNPT	Cast Iron	4KUT6
	¾" x ¾" x ¾"	FNPT	Cast Iron	4KUT7
	1" x 1" x 1"	FNPT	Cast Iron	4KUT8
	1½" x 1½" x 1½"	FNPT	Cast Iron	4KUU1
	2" x 2" x 2"	FNPT	Cast Iron	4KUU2
	2½" x 2½" x 2½"	FNPT	Cast Iron	4KUU3
	3" x 3" x 3"	FNPT	Cast Iron	4KUU4

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Threaded Uncoated Black Steel & Iron Pipe Fittings, Class 125, 150, 300 & 3000

ANVIL INTERNATIONAL Building Connections That Last

CLASS 150: Medium-pressure (300-999 psi). For low-pressure plumbing applications including air, water, natural gas, and steam.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 150 Medium Pressure Pipe Fittings					
45° Elbow					
	⅛" x ⅛"	FNPT	Malleable Iron	5P466	4WGX2
	¼" x ¼"	FNPT	Malleable Iron	5P467	4WGX3
	⅜" x ⅜"	FNPT	Malleable Iron	5P468	4WGX4
	½" x ½"	FNPT	Malleable Iron	5P469	4WGX5
	¾" x ¾"	FNPT	Malleable Iron	5P470	4WGX6
	1" x 1"	FNPT	Malleable Iron	5P471	4WGX7
	1¼" x 1¼"	FNPT	Malleable Iron	5P472	4WGX8
	1½" x 1½"	FNPT	Malleable Iron	5P473	4WGX9
	2" x 2"	FNPT	Malleable Iron	5P474	4WGY1
	2½" x 2½"	FNPT	Malleable Iron	2WU24	4WGY2
	3" x 3"	FNPT	Malleable Iron	2WU25	4WGY3
	4" x 4"	FNPT	Malleable Iron	2WU26	4WGY4
45° Street Elbow					
	⅛" x ⅛"	FNPT x MNPT	Malleable Iron	34DC52	4WGY5
	¼" x ¼"	FNPT x MNPT	Malleable Iron	34DC53	4WGY6
	⅜" x ⅜"	FNPT x MNPT	Malleable Iron	34DC54	4WGY7
	½" x ½"	FNPT x MNPT	Malleable Iron	6KH97	4WGY8
	¾" x ¾"	FNPT x MNPT	Malleable Iron	—	4WGY9
	1" x 1"	FNPT x MNPT	Malleable Iron	6KH99	4WGZ1
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	34DC55	4WGZ2
	1½" x 1½"	FNPT x MNPT	Malleable Iron	34DC56	4WGZ3
	2" x 2"	FNPT x MNPT	Malleable Iron	2WU32	4WGZ4
	3" x 3"	FNPT x MNPT	Malleable Iron	2WU34	—
90° Drip Pan Elbow					
	1" x 1"	FNPT	Cast Iron	15X129	—
	1¼" x 1¼"	FNPT	Cast Iron	15X130	—
	1½" x 1½"	FNPT	Cast Iron	15X131	—
	2" x 2"	FNPT	Cast Iron	15X132	—
	2½" x 2½"	FNPT	Cast Iron	15X133	—
90° Elbow					
	⅛" x ⅛"	FNPT	Malleable Iron	6P932	4WGN6
	¼" x ¼"	FNPT	Malleable Iron	5P434	4WGN7
	⅜" x ⅜"	FNPT	Malleable Iron	5P435	4WGN8
	½" x ½"	FNPT	Malleable Iron	5P436	4WGN9
	¾" x ¾"	FNPT	Malleable Iron	5P437	4WGP1
	1" x 1"	FNPT	Malleable Iron	5P438	4WGP2
	1¼" x 1¼"	FNPT	Malleable Iron	5P439	4WGP3
	1½" x 1½"	FNPT	Malleable Iron	5P440	4WGP4
	2" x 2"	FNPT	Malleable Iron	5P441	4WGP5
	2½" x 2½"	FNPT	Malleable Iron	2WJ97	4WGP6
	3" x 3"	FNPT	Malleable Iron	2WJ98	4WGP7
	4" x 4"	FNPT	Malleable Iron	2WJ99	4WGP9
90° Reducing Elbow					
	¾" x ½"	FNPT	Malleable Iron	5P445	—
	1¼" x ¾"	FNPT	Malleable Iron	5P450	—
	2" x ¾"	FNPT	Malleable Iron	—	4WGU3
	2" x 1½"	FNPT	Malleable Iron	5P454	—
	2½" x 1½"	FNPT	Malleable Iron	—	4WGU4
	3" x 2"	FNPT	Malleable Iron	—	4WGU6
90° Reducing Street Elbow					
	½" x ⅜"	FNPT x MNPT	Malleable Iron	—	4WGW3
	¾" x ½"	FNPT x MNPT	Malleable Iron	—	4WGW4
	1" x ¾"	FNPT x MNPT	Malleable Iron	—	4WGW5
	1½" x 1¼"	FNPT x MNPT	Malleable Iron	—	4WGW8
	2" x 1½"	FNPT x MNPT	Malleable Iron	—	4WGX1
90° Street Elbow					
	⅛" x ⅛"	FNPT x MNPT	Malleable Iron	5P457	4WGU9
	¼" x ¼"	FNPT x MNPT	Malleable Iron	5P458	4WGV1
	⅜" x ⅜"	FNPT x MNPT	Malleable Iron	5P459	4WGV2
	½" x ½"	FNPT x MNPT	Malleable Iron	5P460	4WGV3
	¾" x ¾"	FNPT x MNPT	Malleable Iron	5P461	4WGV4
	1" x 1"	FNPT x MNPT	Malleable Iron	5P462	4WGV5
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	5P463	4WGV6
	1½" x 1½"	FNPT x MNPT	Malleable Iron	5P464	4WGV7
	2" x 2"	FNPT x MNPT	Malleable Iron	5P465	4WGV8
	2½" x 2½"	FNPT x MNPT	Malleable Iron	2WU27	—
	3" x 3"	FNPT x MNPT	Malleable Iron	2WU28	4WGW1
	4" x 4"	FNPT x MNPT	Malleable Iron	2WU29	—
Coupling					
	⅛" x ⅛"	FNPT	Malleable Iron	5P549	4WHX3
	¼" x ¼"	FNPT	Malleable Iron	5P550	4WHX4
	⅜" x ⅜"	FNPT	Malleable Iron	5P551	4WHX5
	½" x ½"	FNPT	Malleable Iron	5P552	4WHX6
	¾" x ¾"	FNPT	Malleable Iron	5P553	4WHX7
	1" x 1"	FNPT	Malleable Iron	5P554	4WHX8
	1¼" x 1¼"	FNPT	Malleable Iron	5P555	4WHX9
	1½" x 1½"	FNPT	Malleable Iron	5P556	4WHY1
	2" x 2"	FNPT	Malleable Iron	5P557	4WHY2
	2½" x 2½"	FNPT	Malleable Iron	2WU59	4WHY3
	3" x 3"	FNPT	Malleable Iron	2WU60	4WHY4
	4" x 4"	FNPT	Malleable Iron	2WU61	4WHY5

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Cross					
	⅛" x ⅛" x ⅛" x ⅛"	FNPT	Malleable Iron	—	4WHV3
	¼" x ¼" x ¼" x ¼"	FNPT	Malleable Iron	—	4WHV4
	⅜" x ⅜" x ⅜" x ⅜"	FNPT	Malleable Iron	5PAU4	4WHV5
	½" x ½" x ½" x ½"	FNPT	Malleable Iron	6KJ34	4WHV6
	¾" x ¾" x ¾" x ¾"	FNPT	Malleable Iron	6KJ35	4WHV7
	1" x 1" x 1" x 1"	FNPT	Malleable Iron	6KJ36	4WHV8
	1¼" x 1¼" x 1¼" x 1¼"	FNPT	Malleable Iron	6KJ37	—
	1½" x 1½" x 1½" x 1½"	FNPT	Malleable Iron	6KJ38	4WHW1
	2" x 2" x 2" x 2"	FNPT	Malleable Iron	6KJ39	—
	3" x 3" x 3" x 3"	FNPT	Malleable Iron	—	4WHW4
Hex Bushing					
	¼" x ⅛"	MNPT x FNPT	Malleable Iron	5P507	—
	⅜" x ⅛"	MNPT x FNPT	Malleable Iron	5P508	—
	⅜" x ¼"	MNPT x FNPT	Malleable Iron	5P509	—
	⅜" x ½"	MNPT x FNPT	Malleable Iron	5P512	—
	½" x ⅛"	MNPT x FNPT	Malleable Iron	5P510	—
	½" x ¼"	MNPT x FNPT	Malleable Iron	5P511	—
	¾" x ¼"	MNPT x FNPT	Malleable Iron	5P513	—
	¾" x ⅜"	MNPT x FNPT	Malleable Iron	5P514	—
	¾" x ½"	FNPT x MNPT	Malleable Iron	5P515	—
	1" x ⅛"	MNPT x FNPT	Malleable Iron	—	4WJL2
	1" x ¼"	MNPT x FNPT	Malleable Iron	34DC83	4WJL1
	1" x ⅜"	MNPT x FNPT	Malleable Iron	5P516	4WJK7
	1" x ½"	FNPT x MNPT	Malleable Iron	5P517	4WJK8
	1" x ¾"	MNPT x FNPT	Malleable Iron	5P518	4WJK9
	1" x 2"	MNPT x FNPT	Malleable Iron	5P528	—
	1¼" x ¼"	MNPT x FNPT	Malleable Iron	—	4WJL4
	1¼" x ⅜"	MNPT x FNPT	Malleable Iron	—	4WJL3
	1¼" x ½"	MNPT x FNPT	Malleable Iron	5P519	4WJL5
	1¼" x ¾"	MNPT x FNPT	Malleable Iron	5P520	4WJL6
	1¼" x 1"	MNPT x FNPT	Malleable Iron	5P521	4WJL8
	1½" x ½"	MNPT x FNPT	Malleable Iron	5P522	—
	1½" x ¾"	MNPT x FNPT	Malleable Iron	5P523	—
	1½" x 1¼"	MNPT x FNPT	Malleable Iron	5P525	4WJL7
	1½" x 1"	MNPT x FNPT	Malleable Iron	5P524	—
	2" x ½"	MNPT x FNPT	Malleable Iron	5P526	—
	2" x ¾"	MNPT x FNPT	Malleable Iron	5P527	—
	2" x 1½"	MNPT x FNPT	Malleable Iron	5P530	4WJL9
	2" x 1¼"	MNPT x FNPT	Malleable Iron	5P529	—
	2½" x 1"	MNPT x FNPT	Malleable Iron	2WV15	—
	2½" x 1½"	MNPT x FNPT	Malleable Iron	2WV17	—
	2½" x 2"	MNPT x FNPT	Malleable Iron	2WV18	4WJN6
	3" x 1"	MNPT x FNPT	Malleable Iron	2WU92	—
	3" x 1½"	MNPT x FNPT	Malleable Iron	2WU94	—
	3" x 2"	MNPT x FNPT	Malleable Iron	2WU95	—
	3" x 2½"	MNPT x FNPT	Malleable Iron	2WU96	—
	4" x 2"	MNPT x FNPT	Malleable Iron	2WV11	—
	4" x 3"	MNPT x FNPT	Malleable Iron	2WU89	—
Hex Head Cap					
	⅜"	FNPT	Malleable Iron	—	4WJU6
Locknut					
	½"	FNPT	Malleable Iron	6KJ24	—
	¾"	FNPT	Malleable Iron	6KJ25	—
	1"	FNPT	Malleable Iron	6KJ26	—
	1¼"	FNPT	Malleable Iron	—	4KUH8
Magnetic Hex Recessed Head Plug					
	⅛"	MNPT	Steel	4CCF2	—
	⅜"	MNPT	Steel	4CCF4	—
	½"	MNPT	Steel	4CCF5	—
	¾"	MNPT	Steel	4CCF6	—
	1"	MNPT	Steel	4CCF7	—
Magnetic Square Head Plug					
	¼"	MNPT	Steel	4CCD9	—
	½"	MNPT	Steel	4CCE2	—
	¾"	MNPT	Steel	4CCE3	—
	1"	MNPT	Malleable Iron	4CCE4	—
	1¼"	MNPT	Cast Iron	4CCE5	—
	1½"	MNPT	Cast Iron	4CCE6	—
Magnetic Square Recessed Head Plug					
	½"	MNPT	Steel	4CCE8	—
	¾"	MNPT	Steel	4CCE9	—

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Threaded Uncoated Black Steel & Iron Pipe Fittings, Class 125, 150, 300 & 3000

CLASS 150: Medium-pressure (300-999 psi). For low-pressure plumbing applications including air, water, natural gas, and steam.

Merchant Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Merchant Coupling	⅛" x ⅛"	Female NPSC x Female NPSC	Steel	2KMD5	—
	¼" x ¼"	FNPT	Steel	2KMD6	—
	⅜" x ⅜"	Female NPSC x Female NPSC	Steel	2KMD7	—
	½" x ½"	Female NPSC x Female NPSC	Steel	2KMD8	—
	¾" x ¾"	Female NPSC x Female NPSC	Steel	2KMD9	—
	1" x 1"	NPT x Female NPT	Steel	2KME1	—
	1¼" x 1¼"	Female NPSC x Female NPSC	Steel	2KME2	—
	1½" x 1½"	Female NPSC x Female NPSC	Steel	2KME3	—
	2" x 2"	Female NPSC x Female NPSC	Steel	2KME4	—
	2½" x 2½"	FNPT	Steel	4HVG7	—
	3" x 3"	FNPT	Steel	4HVG8	—
	4" x 4"	FNPT	Steel	4HVG9	—

Reducing Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Reducing Coupling	¼" x ⅛"	FNPT	Malleable Iron	5P558	4WHY6
	⅜" x ⅛"	FNPT	Malleable Iron	34DC63	4WHY8
	⅜" x ¼"	FNPT	Malleable Iron	5P559	4WHY7
	½" x ⅛"	FNPT	Malleable Iron	5P563	—
	½" x ¼"	FNPT	Malleable Iron	5P562	4WHZ1
	½" x ⅜"	FNPT	Malleable Iron	5P561	4WHY9
	¾" x ¼"	FNPT	Malleable Iron	5P566	4WHZ5
	¾" x ⅜"	FNPT	Malleable Iron	5P565	4WHZ4
	¾" x ½"	FNPT	Malleable Iron	5P564	4WHZ3
	1" x ¼"	FNPT	Malleable Iron	34DC65	4WJA1
	1" x ⅜"	FNPT	Malleable Iron	34DC66	4WHZ9
	1" x ½"	FNPT	Malleable Iron	5P568	4WHZ8
	1" x ¾"	FNPT	Malleable Iron	5P567	4WHZ7
	1¼" x ½"	FNPT	Malleable Iron	5P571	4WJA4
	1¼" x ¾"	FNPT	Malleable Iron	5P570	4WJA3
	1¼" x 1"	FNPT	Malleable Iron	5P569	4WJA2
	1½" x ½"	FNPT	Malleable Iron	5P575	—
	1½" x ¾"	FNPT	Malleable Iron	5P574	4WJA7
	1½" x 1¼"	FNPT	Malleable Iron	5P572	4WJA5
	1½" x 1"	FNPT	Malleable Iron	5P573	4WJA6
	2" x ½"	FNPT	Malleable Iron	34DC67	4WJC4
	2" x ¾"	FNPT	Malleable Iron	34DC68	4WJC3
	2" x 1½"	FNPT	Malleable Iron	5P576	4WJA9
	2" x 1¼"	FNPT	Malleable Iron	5P577	4WJC1
	2" x 1"	FNPT	Malleable Iron	5P578	4WJC2
	2½" x 1"	FNPT	Malleable Iron	2WU75	—
	2½" x 1¼"	FNPT	Malleable Iron	2WU76	—
	2½" x 1½"	FNPT	Malleable Iron	2WU77	4WJC6
	2½" x 2"	FNPT	Malleable Iron	2WU78	4WJC5
	3" x 1"	FNPT	Malleable Iron	2WU64	4WJD4
	3" x 1½"	FNPT	Malleable Iron	2WU66	—
	3" x 1¼"	FNPT	Malleable Iron	—	4WJD3
	3" x 2"	FNPT	Malleable Iron	2WU67	4WJD1
	3" x 2½"	FNPT	Malleable Iron	2WU68	—
	4" x 1"	FNPT	Malleable Iron	2WU69	—
	4" x 1½"	FNPT	Malleable Iron	—	4WJE3
	4" x 2"	FNPT	Malleable Iron	2WU72	—
	4" x 2½"	FNPT	Malleable Iron	2WU73	4WJE1
	4" x 3"	FNPT	Malleable Iron	2WU62	—

Reducing Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Reducing Tee	½" x ½" x ¼"	FNPT	Malleable Iron	5P485	—
	¾" x ¾" x ¼"	FNPT	Malleable Iron	5P488	—
	¾" x ¾" x ⅜"	FNPT	Malleable Iron	5P487	—
	¾" x ¾" x ½"	FNPT	Malleable Iron	5P486	—
	1" x 1" x ¼"	FNPT	Malleable Iron	—	4WHE6
	1" x 1" x ½"	FNPT	Malleable Iron	5P493	—
	1" x 1" x ¾"	FNPT	Malleable Iron	5P492	—
	1¼" x ¾" x 1¼"	FNPT	Malleable Iron	—	4WHG6
	1¼" x 1¼" x ½"	FNPT	Malleable Iron	5P501	—
	1¼" x 1¼" x ¾"	FNPT	Malleable Iron	5P500	—
	1¼" x 1¼" x 1"	FNPT	Malleable Iron	5P499	—
	1½" x 1½" x ½"	FNPT	Malleable Iron	—	4WHH7
	1½" x 1½" x ¾"	FNPT	Malleable Iron	34DC93	4WHH6
	1½" x 1½" x 1"	FNPT	Malleable Iron	5P504	4WHH5
	2" x ½" x 2"	FNPT	Malleable Iron	34DC94	—
	2" x ¾" x 2"	FNPT	Malleable Iron	34DC95	—
	2" x 2" x ½"	FNPT	Malleable Iron	34DC98	4WHK7
	2" x 2" x ¾"	FNPT	Malleable Iron	34DC99	4WHK6
	2" x 2" x 1"	FNPT	Malleable Iron	34DD01	4WHK5
	2" x 2" x 1½"	FNPT	Malleable Iron	5P505	—
	2½" x 2½" x 1"	FNPT	Malleable Iron	—	4WHN6
	3" x 3" x 2"	FNPT	Malleable Iron	—	4WHP5
	4" x 4" x 2"	FNPT	Malleable Iron	—	4WHR8
	4" x 4" x 3"	FNPT	Malleable Iron	—	4WHR6

Round Cap

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Round Cap	⅛"	FNPT	Malleable Iron	5P531	—
	¼"	FNPT	Malleable Iron	5P532	4WJU5
	⅜"	FNPT	Malleable Iron	5P533	—
	½"	FNPT	Malleable Iron	5P534	4WJU7
	¾"	FNPT	Malleable Iron	5P535	4WJU8
	1"	FNPT	Malleable Iron	5P536	4WJU9
	1¼"	FNPT	Malleable Iron	5P537	4WJV1
	1½"	FNPT	Malleable Iron	5P538	4WJV2
	2"	FNPT	Malleable Iron	5P539	4WJV3
	2½"	FNPT	Malleable Iron	2WU79	4WJV4
	3"	FNPT	Malleable Iron	2WU80	4WJV5
	3½"	FNPT	Malleable Iron	—	4WJV6
	4"	FNPT	Malleable Iron	2WU81	4WJV7

Square Head Plug

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Square Head Plug	⅛"	MNPT	Forged Steel	—	29VC77
	⅛"	MNPT	Malleable Iron	5P540	4WJH2
	¼"	MNPT	Forged Steel	—	29VC78
	¼"	MNPT	Malleable Iron	5P541	4WJH3
	⅜"	MNPT	Forged Steel	—	29VC79
	⅜"	MNPT	Malleable Iron	5P542	4WJH4
	½"	MNPT	Malleable Iron	5P543	4WJH5
	¾"	MNPT	Malleable Iron	5P544	4WJH6
	1"	MNPT	Malleable Iron	5P545	4WJH7
	1¼"	MNPT	Forged Steel	—	29VC83
	1¼"	MNPT	Malleable Iron	5P546	4WJH8
	1½"	MNPT	Malleable Iron	5P547	4WJH9
	2"	MNPT	Forged Steel	—	29VC85
	2"	MNPT	Malleable Iron	5P548	4WJJ1
	2½"	MNPT	Forged Steel	—	29VC86
	2½"	MNPT	Malleable Iron	2WU86	—
	3"	MNPT	Forged Steel	—	29VC87
	3"	MNPT	Malleable Iron	2WU87	4WJJ3
	3½"	MNPT	Malleable Iron	—	4WJJ4
	4"	MNPT	Forged Steel	—	29VC88
	4"	MNPT	Malleable Iron	2WU88	4WJJ5

Street Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Street Tee	½" x ½" x ½"	FNPT x MNPT x FNPT	Malleable Iron	—	4WHT4
	¾" x ¾" x ¾"	FNPT x MNPT x FNPT	Malleable Iron	—	4WHT5
	1" x 1" x 1"	FNPT x MNPT x FNPT	Malleable Iron	—	4WHT6
	1½" x 1½" x 1½"	FNPT x MNPT x FNPT	Malleable Iron	—	4WHT8
	2" x 2" x 2"	FNPT x MNPT x FNPT	Malleable Iron	—	4WHT9

Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Tee	⅛" x ⅛" x ⅛"	FNPT	Malleable Iron	5P475	4WGZ5
	¼" x ¼" x ¼"	FNPT	Malleable Iron	5P476	4WGZ6
	⅜" x ⅜" x ⅜"	FNPT	Malleable Iron	5P477	4WGZ7
	½" x ½" x ½"	FNPT	Malleable Iron	5P478	4WGZ8
	¾" x ¾" x ¾"	FNPT	Malleable Iron	5P479	4WGZ9
	1" x 1" x 1"	FNPT	Malleable Iron	5P480	4WHA1
	1¼" x 1¼" x 1¼"	FNPT	Malleable Iron	5P481	4WHA2
	1½" x 1½" x 1½"	FNPT	Malleable Iron	5P482	4WHA3
	2" x 2" x 2"	FNPT	Malleable Iron	5P483	4WHA4
	2½" x 2½" x 2½"	FNPT	Malleable Iron	2WU36	4WHA5
	3" x 3" x 3"	FNPT	Malleable Iron	2WU37	4WHA6
	4" x 4" x 4"	FNPT	Malleable Iron	2WU38	4WHA8

Union

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Union	⅛" x ⅛"	FNPT	Malleable Iron	5P588	4WJR9
	¼" x ¼"	FNPT	Malleable Iron	5P589	4WJT1
	⅜" x ⅜"	FNPT	Malleable Iron	5P590	4WJT2
	½" x ½"	FNPT	Malleable Iron	5P591	4WJT3
	¾" x ½"	FNPT	Malleable Iron	—	4WJT5
	¾" x ¾"	FNPT	Malleable Iron	5P592	4WJT4
	1" x 1"	FNPT	Malleable Iron	5P593	4WJT6
	1¼" x 1¼"	FNPT	Malleable Iron	5P594	4WJT7
	1½" x 1½"	FNPT	Malleable Iron	5P595	—
	2" x 2"	FNPT	Malleable Iron	5P596	4WJT9
	2½" x 2½"	FNPT	Malleable Iron	2WU83	4WJU1
	3" x 3"	FNPT	Malleable Iron	2WU84	4WJU2

Wye

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Wye	⅜" x ⅜" x ⅜"	FNPT	Malleable Iron	—	4WHU2
	½" x ½" x ½"	FNPT	Malleable Iron	—	4WHU3
	¾" x ¾" x ¾"	FNPT	Malleable Iron	—	4WHU4
	1" x 1" x 1"	FNPT	Malleable Iron	—	4WHU5
	1¼" x 1¼" x 1¼"	FNPT	Malleable Iron	—	4WHU6
	1½" x 1½" x 1½"	FNPT	Malleable Iron	—	4WHU7
	2" x 2" x 2"	FNPT	Malleable Iron	—	4WHU8
	3" x 3" x 3"	FNPT	Malleable Iron	—	4WHV1
	4" x 4" x 4"	FNPT	Malleable Iron	—	4WHV2

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Threaded Uncoated Black Steel & Iron Pipe Fittings, Class 125, 150, 300 & 3000

ANVIL INTERNATIONAL Building Connections That Last

CLASS 300: Medium- to high-pressure (300-3000 psi). Features thicker walls that can withstand higher pressures than class 150 fittings.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 300 Medium to High Pressure Pipe Fittings					
45° Elbow					
	¼" x ¼"	FNPT	Malleable Iron	1LBV2	—
	⅜" x ⅜"	FNPT	Malleable Iron	1LBV3	—
	½" x ½"	FNPT	Malleable Iron	1LBV4	12G031
	¾" x ¾"	FNPT	Malleable Iron	1LBV5	12G032
	1" x 1"	FNPT	Malleable Iron	1LBV6	12G033
	1¼" x 1¼"	FNPT	Malleable Iron	1LBV7	12G034
	1½" x 1½"	FNPT	Malleable Iron	1LBV8	12G035
	2" x 2"	FNPT	Malleable Iron	1LBV9	12G036
45° Street Elbow					
	¾" x ¾"	FNPT x MNPT	Malleable Iron	1XKR4	—
	1" x 1"	FNPT x MNPT	Malleable Iron	1XKR5	—
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	1XKR6	—
	1½" x 1½"	FNPT x MNPT	Malleable Iron	1XKR7	—
90° Elbow					
	¼" x ¼"	FNPT	Malleable Iron	1LBU1	12G009
	⅜" x ⅜"	FNPT	Malleable Iron	1LBU2	12G010
	½" x ½"	FNPT	Malleable Iron	1LBU3	12G011
	¾" x ¾"	FNPT	Malleable Iron	1LBU4	12G012
	1" x 1"	FNPT	Malleable Iron	1LBU5	12G013
	1¼" x 1¼"	FNPT	Malleable Iron	1LBU6	12G014
	1½" x 1½"	FNPT	Malleable Iron	1LBU7	12G015
	2" x 2"	FNPT	Malleable Iron	1LBU8	12G016
	2½" x 2½"	FNPT	Malleable Iron	1LBU9	12G017
	3" x 3"	FNPT	Malleable Iron	1LBV1	12G018
	4" x 4"	FNPT	Malleable Iron	—	12G019
90° Street Elbow					
	¼" x ¼"	FNPT x MNPT	Malleable Iron	1LBW3	12G020
	⅜" x ⅜"	FNPT x MNPT	Malleable Iron	1LBW4	12G021
	½" x ½"	FNPT x MNPT	Malleable Iron	1LBW5	12G022
	¾" x ¾"	FNPT x MNPT	Malleable Iron	1LBW6	12G023
	1" x 1"	FNPT x MNPT	Malleable Iron	1LBW7	12G024
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	1LBW8	12G025
	1½" x 1½"	FNPT x MNPT	Malleable Iron	1LBW9	12G026
	2" x 2"	FNPT x MNPT	Malleable Iron	1LBX1	12G027
Coupling					
	¼" x ¼"	FNPT	Malleable Iron	1LBY3	12G060
	⅜" x ⅜"	FNPT	Malleable Iron	1LBY4	12G061
	½" x ½"	FNPT	Malleable Iron	1LBY5	12G062
	¾" x ¾"	FNPT	Malleable Iron	1LBY6	12G063
	1" x 1"	FNPT	Malleable Iron	1LBY7	12G064
	1¼" x 1¼"	FNPT	Malleable Iron	1LBY8	12G065
	1½" x 1½"	FNPT	Malleable Iron	1LBY9	12G066
	2" x 2"	FNPT	Malleable Iron	1LBZ1	12G067
	2½" x 2½"	FNPT	Malleable Iron	—	12G068
	3" x 3"	FNPT	Malleable Iron	—	12G069
Cross					
	½" x ½" x ½" x ½"	FNPT	Malleable Iron	5PAU5	—
	¾" x ¾" x ¾" x ¾"	FNPT	Malleable Iron	5PAU6	—
	1" x 1" x 1" x 1"	FNPT	Malleable Iron	5PAU7	—
	1¼" x 1¼" x 1¼" x 1¼"	FNPT	Malleable Iron	5PAU8	—
Hex Bushing					
	¼" x ⅛"	MNPT x FNPT	Steel	—	4WJJ6
	⅜" x ⅛"	MNPT x FNPT	Steel	—	4WJJ7
	⅜" x ¼"	MNPT x FNPT	Steel	—	4WJJ8
	½" x ⅛"	MNPT x FNPT	Steel	—	4WJJ9
	½" x ¼"	MNPT x FNPT	Steel	—	4WJK1
	½" x ⅜"	MNPT x FNPT	Steel	—	4WJK2
	¾" x ⅛"	MNPT x FNPT	Steel	—	4WJK3
	¾" x ¼"	MNPT x FNPT	Steel	—	4WJK4
	¾" x ⅜"	MNPT x FNPT	Steel	—	4WJK5
	¾" x ½"	MNPT x FNPT	Steel	—	4WJK6
Hex Head Bull Plug					
	½"	MNPT	Carbon Steel	4WGG7	—
	¾"	MNPT	Carbon Steel	4WGG8	—
	1"	MNPT	Carbon Steel	4WGG9	—

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Reducing Coupling					
	⅜" x ¼"	FNPT	Malleable Iron	1XKR8	12G070
	½" x ¼"	FNPT	Malleable Iron	1XKR9	12G072
	½" x ⅜"	FNPT	Malleable Iron	1XKT1	12G071
	¾" x ¼"	FNPT	Malleable Iron	5PAT9	—
	¾" x ⅜"	FNPT	Malleable Iron	1XKT2	12G074
	¾" x ½"	FNPT	Malleable Iron	1XKT3	12G073
	1" x ¼"	FNPT	Malleable Iron	—	12G079
	1" x ⅜"	FNPT	Malleable Iron	1XKT4	—
	1" x ½"	FNPT	Malleable Iron	1XKT5	12G077
	1" x ¾"	FNPT	Malleable Iron	1XKT6	12G076
	1¼" x ½"	FNPT	Malleable Iron	—	12G082
	1¼" x ¾"	FNPT	Malleable Iron	1XKT7	12G081
	1¼" x 1"	FNPT	Malleable Iron	1XKT8	12G080
	1½" x ½"	FNPT	Malleable Iron	—	12G086
	1½" x ¾"	FNPT	Malleable Iron	1XKU1	—
	1½" x 1¼"	FNPT	Malleable Iron	1XKU3	12G083
	1½" x 1"	FNPT	Malleable Iron	1XKU2	12G084
	2" x ½"	FNPT	Malleable Iron	5PAK9	—
	2" x ¾"	FNPT	Malleable Iron	1XKU4	—
	2" x 1½"	FNPT	Malleable Iron	1XKU7	12G087
	2" x 1¼"	FNPT	Malleable Iron	1XKU6	12G088
	2" x 1"	FNPT	Malleable Iron	1XKU5	12G089
	2½" x 2"	FNPT	Malleable Iron	5PAL0	—
	3" x 2"	FNPT	Malleable Iron	5PAL1	—
Reducing Tee					
	½" x ½" x ¼"	FNPT	Malleable Iron	—	12G051
	¾" x ¾" x ½"	FNPT	Malleable Iron	—	12G052
	1" x 1" x ½"	FNPT	Malleable Iron	5PAL5	12G054
	1" x 1" x ¾"	FNPT	Malleable Iron	—	12G053
	1¼" x 1¼" x 1"	FNPT	Malleable Iron	5PAL7	—
	1½" x 1½" x 1"	FNPT	Malleable Iron	5PAL8	—
	2" x 2" x ½"	FNPT	Malleable Iron	—	12G059
	2" x 2" x ¾"	FNPT	Malleable Iron	5PAN0	12G058
	2" x 2" x 1½"	FNPT	Malleable Iron	—	12G055
	2" x 2" x 1¼"	FNPT	Malleable Iron	—	12G056
	2" x 2" x 1"	FNPT	Malleable Iron	—	12G057
Round Cap					
	¼"	FNPT	Malleable Iron	1LBZ4	12G112
	⅜"	FNPT	Malleable Iron	1LBZ5	12G113
	½"	FNPT	Malleable Iron	1LBZ6	12G114
	¾"	FNPT	Malleable Iron	1LBZ7	12G115
	1"	FNPT	Malleable Iron	1LBZ8	12G116
	1¼"	FNPT	Malleable Iron	1LBZ9	12G117
	1½"	FNPT	Malleable Iron	1LCA1	12G534
	2"	FNPT	Malleable Iron	1LCA2	12G535
	2½"	FNPT	Malleable Iron	—	12G536
	3"	FNPT	Malleable Iron	—	12G537
Square Head Plug					
	⅜"	MNPT	Malleable Iron	5PAV1	—
	¾"	MNPT	Malleable Iron	5PAV3	—
	1¼"	MNPT	Malleable Iron	5PAV5	—
	1½"	MNPT	Malleable Iron	5PAV6	—
Tee					
	¼" x ¼" x ¼"	FNPT	Malleable Iron	1LBX2	12G040
	⅜" x ⅜" x ⅜"	FNPT	Malleable Iron	1LBX3	12G041
	½" x ½" x ½"	FNPT	Malleable Iron	1LBX4	12G042
	¾" x ¾" x ¾"	FNPT	Malleable Iron	1LBX5	12G043
	1" x 1" x 1"	FNPT	Malleable Iron	1LBX6	12G044
	1¼" x 1¼" x 1¼"	FNPT	Malleable Iron	1LBX7	12G045
	1½" x 1½" x 1½"	FNPT	Malleable Iron	1LBX8	12G046
	2" x 2" x 2"	FNPT	Malleable Iron	1LBX9	12G047
	2½" x 2½" x 2½"	FNPT	Malleable Iron	—	12G048
	3" x 3" x 3"	FNPT	Malleable Iron	—	12G049
Union					
	⅛" x ⅛"	FNPT	Malleable Iron	—	12G099
	¼" x ¼"	FNPT	Malleable Iron	1LCA3	12G101
	⅜" x ⅜"	FNPT	Malleable Iron	1LCA4	12G102
	½" x ½"	FNPT	Malleable Iron	1LCA5	12G103
	¾" x ¾"	FNPT	Malleable Iron	1LCA6	12G104
	1" x 1"	FNPT	Malleable Iron	1LCA7	12G105
	1¼" x 1¼"	FNPT	Malleable Iron	1LCA8	12G106
	1½" x 1½"	FNPT	Malleable Iron	1LCA9	12G107
	2" x 2"	FNPT	Malleable Iron	1LCB1	12G108
	2½" x 2½"	FNPT	Malleable Iron	1LCB2	12G109
	3" x 3"	FNPT	Malleable Iron	1LCB3	12G110

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Threaded Uncoated Black Steel & Iron Pipe Fittings, Class 125, 150, 300 & 3000

CLASS 3000: Medium- to high-pressure (300-3000 psi). For use with water and oil in chemical, petrochemical, pulp, paper, shipbuilding, waste incineration, and semiconductor industry applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 3000 Medium to High Pressure Pipe Fittings					
45° Elbow					
	⅛" x ⅛"	FNPT	Forged Steel	1MMW3	29JD93
	¼" x ¼"	FNPT	Forged Steel	1MMW4	29JD94
	⅜" x ⅜"	FNPT	Forged Steel	—	29JD95
	½" x ½"	FNPT	Forged Steel	1MMW6	29JD96
	¾" x ¾"	FNPT	Forged Steel	1MMW7	29JD97
	1" x 1"	FNPT	Forged Steel	1MMW8	29JD98
	1¼" x 1¼"	FNPT	Forged Steel	1MMW9	29JD99
	1½" x 1½"	FNPT	Forged Steel	1MMX1	29JE01
	2" x 2"	FNPT	Forged Steel	1MMX2	29JE02
	4" x 4"	FNPT	Forged Steel	—	29JE05
45° Lateral Wye					
	¾" x ¾" x ¾"	FNPT	Forged Steel	—	29JD88
	1" x 1" x 1"	FNPT	Forged Steel	—	29JD89
	2" x 2" x 2"	FNPT	Forged Steel	—	29JD92
90° Elbow					
	⅛" x ⅛"	FNPT	Forged Steel	1MMU1	29JD66
	¼" x ¼"	FNPT	Forged Steel	1MMU2	29JD67
	⅜" x ⅜"	FNPT	Forged Steel	1MMU3	29JD68
	½" x ½"	FNPT	Forged Steel	1MMU4	29JD69
	¾" x ¾"	FNPT	Forged Steel	1MMU5	29JD70
	1" x 1"	FNPT	Forged Steel	1MMU6	29JD71
	1¼" x 1¼"	FNPT	Forged Steel	1MMU7	29JD72
	1½" x 1½"	FNPT	Forged Steel	1MMU8	29JD73
	2" x 2"	FNPT	Forged Steel	1MMU9	29JD74
	2½" x 2½"	FNPT	Forged Steel	—	29JD75
	3" x 3"	FNPT	Forged Steel	—	29JD76
	4" x 4"	FNPT	Forged Steel	—	29JD77
90° Street Elbow					
	⅛" x ⅛"	FNPT x MNPT	Forged Steel	—	29JD78
	¼" x ¼"	FNPT x MNPT	Forged Steel	—	29JD79
	⅜" x ⅜"	FNPT x MNPT	Forged Steel	1MMV5	29JD80
	½" x ½"	FNPT x MNPT	Forged Steel	1MMV6	29JD81
	¾" x ¾"	FNPT x MNPT	Forged Steel	1MMV7	29JD82
	1" x 1"	FNPT x MNPT	Forged Steel	1MMV8	29JD83
	1¼" x 1¼"	FNPT x MNPT	Forged Steel	1MMV9	29JD84
	1½" x 1½"	FNPT x MNPT	Forged Steel	1MMW1	29JD85
	2" x 2"	FNPT x MNPT	Forged Steel	1MMW2	29JD86
Bushing					
	¼" x ⅛"	MNPT x FNPT	Forged Steel	1MNJ3	—
	⅜" x ⅛"	MNPT x FNPT	Forged Steel	1MNJ4	—
	⅜" x ¼"	MNPT x FNPT	Forged Steel	1MNJ5	—
	½" x ¼"	MNPT x FNPT	Forged Steel	1MNJ6	—
	½" x ⅜"	MNPT x FNPT	Forged Steel	1MNJ7	—
	¾" x ⅜"	MNPT x FNPT	Forged Steel	1MNJ8	—
	¾" x ½"	MNPT x FNPT	Forged Steel	1MNJ9	—
	1" x ½"	MNPT x FNPT	Forged Steel	1MNK1	—
	1" x ¾"	MNPT x FNPT	Forged Steel	1MNK2	—
	1¼" x 1"	MNPT x FNPT	Forged Steel	1MNK3	—
	1½" x 1¼"	MNPT x FNPT	Forged Steel	1MNK4	—
	2" x 1"	MNPT x FNPT	Forged Steel	1MNK5	—
	2" x 1½"	MNPT x FNPT	Forged Steel	1MNK6	—
	2½" x 2"	MNPT x FNPT	Forged Steel	1MNK7	—
Coupling					
	⅛" x ⅛"	FNPT	Forged Steel	1MMZ9	29JE43
	¼" x ¼"	FNPT	Forged Steel	1MNA1	29JE44
	⅜" x ⅜"	FNPT	Forged Steel	1MNA2	29JE45
	½" x ½"	FNPT	Forged Steel	1MNA3	29JE46
	¾" x ¾"	FNPT	Forged Steel	1MNA4	29JE47
	1" x 1"	FNPT	Forged Steel	1MNA5	29JE48
	1¼" x 1¼"	FNPT	Forged Steel	1MNA6	29JE49
	1½" x 1½"	FNPT	Forged Steel	1MNA7	29JE50
	2" x 2"	FNPT	Forged Steel	1MNA8	29JE51
	2½" x 2½"	FNPT	Forged Steel	—	29JE52
	3" x 3"	FNPT	Forged Steel	1MNB1	29JE53
Cross					
	¼" x ¼" x ¼" x ¼"	FNPT	Forged Steel	1MMZ1	29JE32
	⅜" x ⅜" x ⅜" x ⅜"	FNPT	Forged Steel	—	29JE33
	½" x ½" x ½" x ½"	FNPT	Forged Steel	—	29JE34
	¾" x ¾" x ¾" x ¾"	FNPT	Forged Steel	1MMZ4	29JE35
	1" x 1" x 1" x 1"	FNPT	Forged Steel	1MMZ5	29JE36
Half Coupling					
	⅛" x ⅛"	FNPT	Forged Steel	1MNB3	29JE55
	¼" x ¼"	FNPT	Forged Steel	1MNB4	29JE56
	⅜" x ⅜"	FNPT	Forged Steel	1MNB5	29JE57
	½" x ½"	FNPT	Forged Steel	1MNB6	29JE58
	¾" x ¾"	FNPT	Forged Steel	1MNB7	29JE59
	1" x 1"	FNPT	Forged Steel	—	29JE60
	1½" x 1½"	FNPT	Forged Steel	1MNC1	29JE62
	2" x 2"	FNPT	Forged Steel	1MNC2	29JE63
	2½" x 2½"	FNPT	Forged Steel	—	29JE64
	3" x 3"	FNPT	Forged Steel	1MNC4	29JE65
	4" x 4"	FNPT	Forged Steel	—	29JE66

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Hex Head Plug					
	⅛"	MNPT	Forged Steel	1MNF2	29VC89
	¼"	MNPT	Forged Steel	1MNF3	29VC90
	⅜"	MNPT	Forged Steel	1MNF4	29VC91
	½"	MNPT	Forged Steel	1MNF5	—
	¾"	MNPT	Forged Steel	1MNF6	—
	1"	MNPT	Forged Steel	1MNF7	—
	1¼"	MNPT	Forged Steel	1MNF8	29VC95
	1½"	MNPT	Forged Steel	1MNF9	—
	2"	MNPT	Forged Steel	1MNG1	—
	2½"	MNPT	Forged Steel	—	29VC98
	3"	MNPT	Forged Steel	—	29VC99
Lug Union					
	½" x ½"	FNPT	Steel	—	29VD80
	¾" x ¾"	FNPT	Steel	—	29VD81
	1" x 1"	FNPT	Steel	—	29VD82
	1¼" x 1¼"	FNPT	Steel	—	29VD83
	1½" x 1½"	FNPT	Steel	—	29VD84
	2" x 2"	FNPT	Steel	—	29VD85
Reducing Coupling					
	¼" x ⅛"	FNPT	Forged Steel	1MNG5	29JE67
	⅜" x ⅛"	FNPT	Forged Steel	1MNG6	—
	⅜" x ¼"	FNPT	Forged Steel	1MNG7	29JE69
	½" x ¼"	FNPT	Forged Steel	1MNG8	29JE71
	½" x ⅜"	FNPT	Forged Steel	1MNG9	29JE72
	¾" x ⅜"	FNPT	Forged Steel	1MNH1	29JE75
	¾" x ½"	FNPT	Forged Steel	1MNH2	29JE76
	1" x ¼"	FNPT	Forged Steel	—	29JE78
	1" x ½"	FNPT	Forged Steel	1MNH3	29JE80
	1" x ¾"	FNPT	Forged Steel	1MNH4	29JE81
	1¼" x ¾"	FNPT	Forged Steel	—	29JE86
	1¼" x 1"	FNPT	Forged Steel	1MNH5	29JE87
	1½" x 1¼"	FNPT	Forged Steel	1MNH6	29JE94
	1½" x 1"	FNPT	Forged Steel	—	29JE93
	2" x ¾"	FNPT	Forged Steel	—	29JE99
	2" x 1"	FNPT	Forged Steel	1MNH7	29JF01
	2" x 1½"	FNPT	Forged Steel	1MNH8	29JF03
	2½" x 1"	FNPT	Forged Steel	—	29JF09
	2½" x 1½"	FNPT	Forged Steel	—	29JF11
	2½" x 2"	FNPT	Forged Steel	1MNH9	—
	3" x 2"	FNPT	Forged Steel	—	29JF21
Reducing Tee					
	¾" x ¾" x ¼"	FNPT	Forged Steel	—	29JE18
	¾" x ¾" x ½"	FNPT	Forged Steel	—	29JE19
	1" x 1" x ½"	FNPT	Forged Steel	—	29JE20
	1" x 1" x ¾"	FNPT	Forged Steel	—	29JE21
	1½" x 1½" x ¾"	FNPT	Forged Steel	—	29JE24
	1½" x 1½" x 1"	FNPT	Forged Steel	—	29JE25
	2" x 2" x ½"	FNPT	Forged Steel	—	29JE28
	2" x 2" x 1"	FNPT	Forged Steel	—	29JE29
	2" x 2" x 1½"	FNPT	Forged Steel	—	29JE30
Round Cap					
	¼"	FNPT	Forged Steel	1MND9	29VC66
	⅜"	FNPT	Forged Steel	1MNE1	29VC67
	½"	FNPT	Forged Steel	1MNE2	29VC68
	¾"	FNPT	Forged Steel	1MNE3	29VC69
	1"	FNPT	Forged Steel	1MNE4	29VC70
	1¼"	FNPT	Forged Steel	1MNE5	29VC71
	1½"	FNPT	Forged Steel	1MNE6	29VC72
	2"	FNPT	Forged Steel	1MNE7	29VC73
	4"	FNPT	Forged Steel	—	29VC76
Tee					
	⅛" x ⅛" x ⅛"	FNPT	Forged Steel	1MMX6	29JE06
	¼" x ¼" x ¼"	FNPT	Forged Steel	1MMX7	29JE07
	⅜" x ⅜" x ⅜"	FNPT	Forged Steel	1MMX8	29JE08
	½" x ½" x ½"	FNPT	Forged Steel	1MMX9	29JE09
	¾" x ¾" x ¾"	FNPT	Forged Steel	1MMY1	29JE10
	1" x 1" x 1"	FNPT	Forged Steel	1MMY2	29JE11
	1¼" x 1¼" x 1¼"	FNPT	Forged Steel	1MMY3	29JE12
	1½" x 1½" x 1½"	FNPT	Forged Steel	1MMY4	29JE13
	2" x 2" x 2"	FNPT	Forged Steel	1MMY5	29JE14
	2½" x 2½" x 2½"	FNPT	Forged Steel	1MMY6	29JE15
	3" x 3" x 3"	FNPT	Forged Steel	—	29JE16
Union					
	¼" x ¼"	FNPT	Forged Steel	1MNC7	29VD70
	⅜" x ⅜"	FNPT	Forged Steel	1MNC8	29VD71
	½" x ½"	FNPT	Forged Steel	1MNC9	29VD72
	¾" x ¾"	FNPT	Forged Steel	1MND1	29VD73
	1" x 1"	FNPT	Forged Steel	1MND2	29VD74
	1¼" x 1¼"	FNPT	Forged Steel	1MND3	29VD75
	1½" x 1½"	FNPT	Forged Steel	1MND4	29VD76
	2" x 2"	FNPT	Forged Steel	1MND5	29VD77
	2½" x 2½"	FNPT	Forged Steel	1MND6	29VD78
	3" x 3"	FNPT	Forged Steel	—	29VD79

Threaded Uncoated Black Steel & Iron Pipe Fittings, High, Extra Strong & Extreme Pressure

Class 6000 and Class STD (standard): High-pressure (1000-3000 psi). Works with oil and natural gas applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Anvil Item No.
Class 6000 High Pressure Pipe Fittings				
Hex Bushing				
	¼" x ⅛"	MNPT x FNPT	Forged Steel	**29VD11**
	⅜" x ¼"	MNPT x FNPT	Forged Steel	**29VD13**
	¾" x ⅜"	MNPT x FNPT	Forged Steel	**29VD19**
	1" x ⅜"	MNPT x FNPT	Forged Steel	**29VD23**
	1¼" x ½"	MNPT x FNPT	Forged Steel	**29VD29**
	1¼" x ¾"	MNPT x FNPT	Forged Steel	**29VD30**
	1¼" x 1"	MNPT x FNPT	Forged Steel	**29VD31**
	1½" x ½"	MNPT x FNPT	Forged Steel	**29VD35**
	1½" x ¾"	MNPT x FNPT	Forged Steel	**29VD36**
	1½" x 1¼"	MNPT x FNPT	Forged Steel	**29VD38**
	2½" x 1"	MNPT x FNPT	Forged Steel	**29VD52**
	2½" x 2"	MNPT x FNPT	Forged Steel	**29VD55**
	3" x 1¼"	MNPT x FNPT	Forged Steel	**29VD59**
	3" x 1½"	MNPT x FNPT	Forged Steel	**29VD60**
	3" x 2½"	MNPT x FNPT	Forged Steel	**29VD62**
	3" x 2"	MNPT x FNPT	Forged Steel	**29VD61**
	4" x 2"	MNPT x FNPT	Forged Steel	**29VD66**
Class Standard (STD) High Pressure Pipe Fittings				
Straight Tapped Merchant Coupling				
	⅛" x ⅛"	FNPT	Steel	**4WJE4**
	¼" x ¼"	FNPT	Steel	**4WJE5**
	⅜" x ⅜"	FNPT	Steel	**4WJE6**
	½" x ½"	FNPT	Steel	**4WJE7**
	¾" x ¾"	FNPT	Steel	**4WJE8**
	1" x 1"	FNPT	Steel	**4WJE9**
	1¼" x 1¼"	FNPT	Steel	**4WJF1**
	1½" x 1½"	FNPT	Steel	**4WJF2**
	2" x 2"	FNPT	Steel	**4WJF3**
	2½" x 2½"	FNPT	Steel	**4WJF4**
	3" x 3"	FNPT	Steel	**4WJF5**
	3½" x 3½"	FNPT	Steel	**4WJF6**

Class XS (extra strong): High-pressure (1000-3000 psi). Works with air, natural gas, non-potable water, oil, and steam.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Anvil Item No.
Class Extra Strong (XS) High Pressure Pipe Fittings				
Taper Tapped Merchant Coupling				
	½" x ½"	FNPT	Steel	**14J821**
	¾" x ¾"	FNPT	Steel	**14J822**
	1" x 1"	FNPT	Steel	**14J823**
	1¼" x 1¼"	FNPT	Steel	**14J824**
	1½" x 1½"	FNPT	Steel	**14J825**
	2" x 2"	FNPT	Steel	**14J826**

Extreme pressure instrumentation: (3001+ psi). Works with air, natural gas, and oil.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Pipe Fitting Material	Parker Item No.
Extreme Pressure Instrumentation Pipe Fittings				
90° Elbow	½" x ½"	MNPT	Carbon Steel	**1DGG9**
90° Street Elbow	¼" x ¼"	MNPT x FNPT	Carbon Steel	**1DGJ9**
	½" x ½"	MNPT x FNPT	Carbon Steel	**1DGK2**
Hex Coupling	¼" x ⅛"	FNPT	Carbon Steel	**1DGD3**
	¼" x ¼"	FNPT	Carbon Steel	**1DGD4**
	⅜" x ⅜"	FNPT	Carbon Steel	**1DGD6**
	½" x ¼"	FNPT	Carbon Steel	**1DGD7**
	½" x ½"	FNPT	Carbon Steel	**1DGD9**
Hex Head Plug	½"	MNPT	Carbon Steel	**1DGU1**
Hex Nipple	¼" x ¼"	MNPT	Carbon Steel	**1DGB3**
	⅜" x ⅜"	MNPT	Carbon Steel	**1DGB4**
	½" x ½"	MNPT	Carbon Steel	**1DGB6**
Hollow Hex Head Plug	¼"	MNPT	Carbon Steel	**1DGU8**
	⅜"	MNPT	Carbon Steel	**1DGU9**
Reducing Adapter	⅜" x ¼"	FNPT x MNPT	Carbon Steel	**1DFZ3**
Reducing Bushing	¼" x ⅛"	MNPT x FNPT	Carbon Steel	**1DGF4**
	⅜" x ⅛"	MNPT x FNPT	Carbon Steel	**1DGF5**
	⅜" x ¼"	MNPT x FNPT	Carbon Steel	**1DGF6**
	½" x ¼"	MNPT x FNPT	Carbon Steel	**1DGF8**
	½" x ⅜"	MNPT x FNPT	Carbon Steel	**1DGF9**
Street Tee	¼" x ¼" x ¼"	FNPT x MNPT x FNPT	Carbon Steel	**1DGL9**
Tee	¼" x ¼" x ¼"	FNPT	Carbon Steel	**1DGK9**
	½" x ½" x ½"	FNPT	Carbon Steel	**1DGL2**

Socket Weld Uncoated Black Steel & Iron Pipe Fittings, Class 3000 & 6000

- Female connections

Connect with pipe to transport natural or propane gas, water, steam, and air to residential, construction, and manufacturing applications. Fittings attach by inserting pipe into the recessed area of the fitting. Pipe and the fitting are square cut for easy fillet welding and installation. These fittings are welded to the same thickness as unthreaded pipe. They are also known as black malleable iron and are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating.

Class 3000 medium- to high-pressure: (300-3000 psi). Ideal for petrochemical, pulp, paper, and shipbuilding applications.

Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 3000 Medium to High Pressure Pipe Fittings				
45° Elbow				
	⅛"	Forged Steel	—	**29VE02**
	¼"	Forged Steel	—	**29VE03**
	⅜"	Forged Steel	—	**29VE04**
	½"	Forged Steel	—	**29VE05**
	¾"	Forged Steel	—	**29VE06**
	1"	Forged Steel	**1MNN9**	**29VE07**
	1¼"	Forged Steel	**1MNP1**	**29VE08**
	1½"	Forged Steel	**1MNP2**	**29VE09**
	2"	Forged Steel	**1MNP3**	**29VE10**
	2½"	Forged Steel	—	**29VE11**
	3"	Forged Steel	**1MNP5**	**29VE12**
	4"	Forged Steel	—	**29VE13**
90° Elbow				
	⅛"	Forged Steel	—	**29VD89**
	¼"	Forged Steel	—	**29VD90**
	⅜"	Forged Steel	—	**29VD91**
	½"	Forged Steel	**1MNL4**	**29VD92**
	¾"	Forged Steel	**1MNL5**	**29VD93**
	1"	Forged Steel	**1MNL6**	**29VD94**
	1¼"	Forged Steel	**1MNL7**	**29VD95**
	1½"	Forged Steel	**1MNL8**	**29VD96**
	2"	Forged Steel	**1MNL9**	**29VD97**
	2½"	Forged Steel	**1MNN1**	**29VD98**
	3"	Forged Steel	**1MNN2**	**29VD99**
	4"	Forged Steel	**1MNN3**	**29VE01**
Coupling				
	¼"	Forged Steel	**1MNW7**	—
	⅜"	Forged Steel	**1MNW8**	—
	½"	Forged Steel	**1MNW9**	—
	¾"	Forged Steel	**1MNX1**	—
	1"	Forged Steel	**1MNX2**	—
	1¼"	Forged Steel	**1MNX3**	—
	2"	Forged Steel	**1MNX5**	—
	2½"	Forged Steel	**1MNX6**	—
	3"	Forged Steel	**1MNX7**	—
Cross				
	½"	Forged Steel	—	**29VE26**
	¾"	Forged Steel	—	**29VE27**
	1"	Forged Steel	—	**29VE28**
	1¼"	Forged Steel	—	**29VE29**
	1½"	Forged Steel	—	**29VE30**
	2"	Forged Steel	—	**29VE31**
	2½"	Forged Steel	—	**29VE33**
	3"	Forged Steel	—	**29VE32**
Reducing Coupling				
	¾" x ½"	Forged Steel	—	**29VE68**
	1" x ½"	Forged Steel	—	**29VE69**
	1" x ¾"	Forged Steel	—	**29VE70**
	1¼" x 1"	Forged Steel	—	**29VE72**
	1½" x 1"	Forged Steel	—	**29VE75**
	2" x 1½"	Forged Steel	—	**29VE80**
	3" x 2"	Forged Steel	—	**29VE98**
Reducing Insert				
	½" x ¼"	Forged Steel	—	**29VF12**
	1½" x 1"	Forged Steel	—	**29VF25**
	2" x ¾"	Forged Steel	—	**29VF28**
	2" x 1½"	Forged Steel	—	**29VF31**
	2½" x 2"	Forged Steel	—	**29VF32**
Round Cap				
	⅛"	Forged Steel	—	**29VE54**
	¼"	Forged Steel	—	**29VE55**
	⅜"	Forged Steel	—	**29VE56**
	½"	Forged Steel	—	**29VE57**
	¾"	Forged Steel	—	**29VE58**
	1"	Forged Steel	—	**29VE59**
	1¼"	Forged Steel	—	**29VE60**
	1½"	Forged Steel	—	**29VE61**
	2"	Forged Steel	**1MNW2**	**29VE62**
	2½"	Forged Steel	**1MNW3**	**29VE63**
	3"	Forged Steel	**1MNW4**	**29VE64**
	4"	Forged Steel	—	**29VE65**
Tee				
	⅛"	Forged Steel	—	**29VE14**
	¼"	Forged Steel	—	**29VE15**
	⅜"	Forged Steel	—	**29VE16**
	½"	Forged Steel	—	**29VE17**
	¾"	Forged Steel	—	**29VE18**
	1"	Forged Steel	**1MNR3**	**29VE19**
	1¼"	Forged Steel	—	**29VE20**
	1½"	Forged Steel	**1MNR5**	**29VE21**
	2"	Forged Steel	**1MNR6**	**29VE22**
	2½"	Forged Steel	**1MNR7**	**29VE23**
	3"	Forged Steel	**1MNR8**	**29VE24**
	4"	Forged Steel	—	**29VE25**

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Socket Weld Uncoated Black Steel & Iron Pipe Fittings, Class 3000 & 6000

Class 3000 medium- to high-pressure: (300-3000 psi). Ideal for petrochemical, pulp, paper, and shipbuilding applications.

Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Union				
	¼"	Steel	—	29VF33
	⅜"	Steel	—	29VF34
	½"	Forged Steel	1MNU4	—
	½"	Steel	—	29VF35
	¾"	Forged Steel	1MNU5	—
	¾"	Steel	—	29VF36
	1"	Forged Steel	1MNU6	—
	1"	Steel	—	29VF37

Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
	1¼"	Forged Steel	1MNU7	—
	1¼"	Steel	—	29VF38
	1½"	Forged Steel	1MNU8	—
	1½"	Steel	—	29VF39
	2"	Forged Steel	1MNU9	—
	2"	Steel	—	29VF40
	2½"	Steel	—	29VF41
	3"	Forged Steel	1MNV2	—

Class 6000 high-pressure: (1000-3000 psi). Ideal for petrochemical, pulp, paper, and shipbuilding applications.

Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 6000 High Pressure Pipe Fittings				
Coupling				
	⅛"	Forged Steel	—	29VE34
	¼"	Forged Steel	—	29VE35
	⅜"	Forged Steel	—	29VE36
	½"	Forged Steel	—	29VE37
	¾"	Forged Steel	—	29VE38
	1"	Forged Steel	—	29VE39
	1¼"	Forged Steel	—	29VE40
	1½"	Forged Steel	—	29VE41
	2"	Forged Steel	—	29VE42
	2½"	Forged Steel	—	29VE43
	3"	Forged Steel	—	29VE44
	4"	Forged Steel	—	29VE45

Butt Weld Uncoated Black Steel & Iron Pipe Fittings, Class Standard & Extra Strong

Class standard (STD) high to extreme pressure pipe fittings connect with pipe to transport natural or propane gas, water, steam, and air to residential, construction, and manufacturing applications. They form pipe joints with strength, fatigue, corrosion resistance, and temperature compliance. These beveled fittings are welded to the ends of same thickness pipe. Fittings are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating. **Class extra strong XS** fittings connect with high- to extreme pressure (1000-3001+ psi) pipe, and are based on the original 1927 standard that uses wall thickness and weight, and are the same as Schedule 40S and identical to Schedule 40 for NPS ⅛ to NPS 10.

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
45° Long Radius Elbow			
	¾" x ¾"	30WC54	30WC67
	1" x 1"	30WC55	30WC68
	1½" x 1½"	30WC57	30WC70
	2" x 2"	30WC58	30WC71
	3" x 3"	30WC60	30WC73
	4" x 4"	30WC62	30WC75
	5" x 5"	30WC63	30WC76
	8" x 8"	30WC65	30WC78

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
90° Long Radius Elbow			
	½" x ½"	30WC05	30WC18
	1" x 1"	30WC07	30WC20
	1¼" x 1¼"	30WC08	30WC21
	1½" x 1½"	30WC09	30WC22
	2" x 2"	30WC10	30WC23
	2½" x 2½"	30WC11	30WC24
	3" x 3"	30WC12	30WC25
	3½" x 3½"	30WC13	30WC26
	4" x 4"	30WC14	30WC27
	5" x 5"	30WC15	30WC28
	6" x 6"	30WC16	30WC29
	8" x 8"	30WC17	30WC30
90° Short Radius Elbow			
	1¼" x 1¼"	30WC32	30WC43
	1½" x 1½"	30WC33	30WC44
	2" x 2"	30WC34	30WC45
	3" x 3"	30WC36	30WC47
	3½" x 3½"	30WC37	30WC48
	4" x 4"	30WC38	30WC49
	5" x 5"	30WC39	30WC50
	6" x 6"	30WC40	30WC51
	8" x 8"	30WC41	30WC52
Concentric Reducer Coupling			
	2½" x 1"	30WE55	30WF09
	2½" x 1½"	30WE57	30WF11
	3" x 2"	30WE62	30WF16
	3½" x 2"	30WE66	30WF20
	4" x 1½"	30WE71	30WF25
	4" x 2"	30WE72	30WF26
	4" x 2½"	30WE73	30WF27
	4" x 3"	30WE74	30WF28
	5" x 3½"	30WE79	30WF33
	5" x 4"	30WE80	30WF34
	6" x 4"	30WE85	30WF39
	6" x 5"	30WE86	30WF40
	8" x 6"	30WE91	30WF45
	8" x 4"	30WE89	30WF43

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
Eccentric Reducer Coupling			
	6" x 2"	30WF88	30WG42
	6" x 2½"	30WF89	30WG43
	6" x 4"	30WF92	30WG46
Reducing Tee			
	3" x 3" x 2"	30WD29	30WD82
	4" x 4" x 3"	30WD41	30WD94
	5" x 5" x 3"	30WD45	30WD98
	6" x 6" x 4"	30WD52	30WE06
Round Cap			
	½"	30WE13	30WE26
	¾"	30WE14	30WE27
	1"	30WE15	30WE28
	1½"	30WE17	30WE30
	2"	30WE18	30WE31
	2½"	30WE19	30WE32
	3"	30WE20	30WE33
	4"	30WE22	30WE35
	5"	30WE23	30WE36
	6"	30WE24	30WE37
	8"	30WE25	30WE38
Straight Tee			
	2" x 2" x 2"	30WC84	30WC97
	2½" x 2½" x 2½"	30WC85	30WC98
	3" x 3" x 3"	30WC86	30WC99
	4" x 4" x 4"	30WC88	30WD02
	5" x 5" x 5"	30WC89	30WD03
	8" x 8" x 8"	30WC91	30WD05

Uncoated Black Steel & Iron Pipe Flanges

Flanges connect with pipe and fittings to form a piping system that transports natural or propane gas, water, steam, and air to residential, construction, and manufacturing applications. Flanges provide easy access for cleaning, inspection, and modification. They are also called black malleable iron flanges and are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating.

Blind Flanges also called blank flanges, seal the end of piping systems or pressure vessel openings to test the flow of a gas or liquid. They typically have a raised, flat, or RTJ (ring-type joint) face.

Butt Weld Flanges also called welded neck flanges, attach by welding the pipe to the neck of the flange, transferring stress from the flange and the hub's base to the pipe. The inside diameter of the flange matches the pipe's inside diameter. Butt weld flanges typically have a RTJ (ring-type joint) face.

Lap Joint Flanges are most commonly used with stub end fittings and slide directly over the pipe. The pipe is welded to the stub end, allowing the lap joint flange to rotate freely around the stub end and eliminating issues with bolt-hole alignment.

Slip-On Flanges typically have raised or flat faces, that slip over pipe. They are manufactured with an inside diameter slightly bigger than the pipe's outside diameter. The pipe slides through the flange and is welded on both sides.

Socket Weld Flanges (SW) flanges attach to pipe by inserting the pipe into the socket end of the flange and applying a fillet weld around the flange/pipe. This weld creates a smoother bore and better flow of fluid or gas inside the pipe. These flanges typically have a raised, flat, or RTJ (ring-type joint) face.

Threaded Flanges also called screwed flanges, connect to the external threads on a pipe without welding. Threaded pipe flanges typically have a raised, flat, or RTJ (ring-type joint) face.

XS Flanges Class Extra Strong (XS) are based on the original 1927 standard that uses wall thickness and weight. Class XS is the same as Schedule 80S which is identical to Schedule 80 for NPS ⅛ to NPS 8.

Class 150 low pressure: (100-299 psi). For use with air, water, oil, natural gas, or steam.

	No. of Bolt Holes	Nominal Pipe Size	Flange Outside Dia.	Pipe Fitting Material	Max. Oper. Press. (psi)	Temp. Range (°F)	Item No.
Class 150 Blind Steel Pipe Flanges							
Blind Flange							
	4	1"	4¼"	Steel	150	-29° to 425	4TXD9
	4	1½"	4 15/16"	Steel	150	-29° to 425	4TXE2
	—	2"	—	Carbon Steel	285	-20° to 100	30WG97
	4	2½"	7"	Steel	150	-29° to 425	4TXE4
	4	3"	7½"	Steel	150	-29° to 425	4TXE5
	8	4"	9"	Steel	150	-29° to 425	4TXE6
	8	6"	11"	Steel	150	-29° to 425	4TXE8
	8	8"	13½"	Steel	150	-29° to 425	4TXE9

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CONTINUED Uncoated Black Steel & Iron Pipe Flanges

Class 150 low pressure: (100-299 psi). For use with air, water, oil, natural gas, or steam.

No. of Bolt Holes	Nominal Pipe Size	Flange Outside Dia.	Pipe Fitting Material	Max. Oper. Press. (psi)	Temp. Range (°F)	Item No.
Class 150 Butt Weld Steel Pipe Flanges						
Weld Neck Flange						
—	2"	—	Carbon Steel	285	-20° to 100	**30WG71**
—	3"	—	Carbon Steel	285	-20° to 100	**30WG73**
—	4"	—	Carbon Steel	285	-20° to 100	**30WG75**
—	6"	—	Carbon Steel	285	-20° to 100	**30WG77**
Class 150 Slip-On Steel Pipe Flanges						
Slip-On Flange						
4	1"	4¼"	Steel	150	-29° to 425	**4TWY9**
4	2"	5¹⁵⁄₁₆"	Steel	150	-29° to 425	**4TWX9**
4	2½"	7"	Steel	150	-29° to 425	**4TWY1**
4	3"	7½"	Steel	150	-29° to 425	**4TWY2**
—	4"	—	Carbon Steel	285	-20° to 100	**30WG62**
8	4"	9"	Steel	150	-29° to 425	**4TWY3**
—	5"	—	Carbon Steel	285	-20° to 100	**30WG63**
8	5"	10"	Steel	150	-29° to 425	**4TWY4**
—	6"	—	Carbon Steel	285	-20° to 100	**30WG64**
8	6"	11"	Steel	150	-29° to 425	**4TWY5**
8	8"	13½"	Steel	150	-29° to 425	**4TWY6**
Class 150 Socket Weld Steel Pipe Flanges						
Socket Weld Flange						
—	1"	—	Carbon Steel	285	-20° to 100	**30WH34**
4	2"	5¹⁵⁄₁₆"	Steel	150	-29° to 425	**4TWZ3**
4	2½"	7"	Steel	150	-29° to 425	**4TWZ4**
—	3"	—	Carbon Steel	285	-20° to 100	**30WH39**
4	3"	7½"	Steel	150	-29° to 425	**4TWZ5**
—	4"	—	Carbon Steel	285	-20° to 100	**30WH40**
8	4"	9"	Steel	150	-29° to 425	**4TWZ6**
8	5"	10"	Steel	150	-29° to 425	**4TWZ7**
8	6"	11"	Steel	150	-29° to 425	**4TWZ8**
Class 150 Threaded Steel & Iron Pipe Flanges						
Threaded Flange						
4	½"	3½"	Steel	150	-29° to 425	**4TXF1**
4	1"	4¼"	Steel	150	-29° to 425	**4TXF3**
4	1¼"	4⁹⁄₁₆"	Steel	150	-29° to 425	**4TXF4**
4	1½"	5"	Steel	150	-29° to 425	**4TXF5**
—	2"	—	Carbon Steel	285	-20° to 100	**30WH11**
4	2"	6"	Steel	300	-29° to 425	**4TXF6**
4	2½"	7"	Steel	150	-29° to 425	**4TXF7**
4	3"	7½"	Steel	300	-29° to 425	**4TXF8**
—	4"	—	Carbon Steel	285	-20° to 100	**30WH15**
8	4"	9"	Steel	150	-29° to 425	**4TXF9**
8	6"	11"	Steel	150	-29° to 425	**4TXG2**
Class 150 XS Socket Weld Pipe Flanges						
Socket Weld Flange						
—	½"	—	Carbon Steel	285	-20° to 100	**30WH43**
—	4"	—	Carbon Steel	285	-20° to 100	**30WH51**

Class 300 medium pressure: (300-999 psi). For use in chemical refineries, fertilizer and petrochemical plants.

No. of Bolt Holes	Nominal Pipe Size	Flange Outside Dia.	Pipe Fitting Material	Max. Oper. Press. (psi)	Temp. Range (°F)	Item No.
Class 300 Lap Joint Pipe Flanges						
Flange						
—	½"	—	Carbon Steel	740	-20° to 100	**30WJ20**
—	1"	—	Carbon Steel	740	-20° to 100	**30WJ22**
—	2"	—	Carbon Steel	740	-20° to 100	**30WJ25**
—	3"	—	Carbon Steel	740	-20° to 100	**30WJ27**
—	4"	—	Carbon Steel	740	-20° to 100	**30WJ29**
—	6"	—	Carbon Steel	740	-20° to 100	**30WJ31**
Class 300 Slip-On Steel Pipe Flanges						
Slip-On Flange						
—	1"	—	Carbon Steel	740	-20° to 100	**30WH56**
—	1½"	—	Carbon Steel	740	-20° to 100	**30WH58**
—	2½"	—	Carbon Steel	740	-20° to 100	**30WH60**
—	3"	—	Carbon Steel	740	-20° to 100	**30WH61**
—	3½"	—	Carbon Steel	740	-20° to 100	**30WH62**
—	4"	—	Carbon Steel	740	-20° to 100	**30WH63**
—	8"	—	Carbon Steel	740	-20° to 100	**30WH66**
Class 300 Socket Weld Steel Pipe Flanges						
Socket Weld Flange						
—	½"	—	Carbon Steel	740	-20° to 100	**30WJ33**
—	1"	—	Carbon Steel	740	-20° to 100	**30WJ35**
—	1½"	—	Carbon Steel	740	-20° to 100	**30WJ37**
—	3"	—	Carbon Steel	740	-20° to 100	**30WJ40**
Class 300 Steel Blind Pipe Flanges						
Blind Flange						
—	½"	—	Carbon Steel	740	-20° to 100	**30WH93**
—	¾"	—	Carbon Steel	740	-20° to 100	**30WH94**
—	1"	—	Carbon Steel	740	-20° to 100	**30WH95**
—	1¼"	—	Carbon Steel	740	-20° to 100	**30WH96**
—	1½"	—	Carbon Steel	740	-20° to 100	**30WH97**
—	2"	—	Carbon Steel	740	-20° to 100	**30WH98**
—	2½"	—	Carbon Steel	740	-20° to 100	**30WH99**
—	3"	—	Carbon Steel	740	-20° to 100	**30WJ01**
—	3½"	—	Carbon Steel	740	-20° to 100	**30WJ02**
—	4"	—	Carbon Steel	740	-20° to 100	**30WJ03**
—	5"	—	Carbon Steel	740	-20° to 100	**30WJ04**
—	6"	—	Carbon Steel	740	-20° to 100	**30WJ05**
—	8"	—	Carbon Steel	740	-20° to 100	**30WJ06**
Class 300 Steel Butt Weld Pipe Flanges						
Weld Neck Flange						
—	½"	—	Carbon Steel	740	-20° to 100	**30WH67**
—	1"	—	Carbon Steel	740	-20° to 100	**30WH69**
—	3"	—	Carbon Steel	740	-20° to 100	**30WH74**
Class 300 Threaded Pipe Flanges						
Threaded Flange						
—	1"	—	Carbon Steel	740	-20° to 100	**30WJ09**
—	1½"	—	Carbon Steel	740	-20° to 100	**30WJ11**
—	2"	—	Carbon Steel	740	-20° to 100	**30WJ12**
—	2½"	—	Carbon Steel	740	-20° to 100	**30WJ13**
—	3"	—	Carbon Steel	740	-20° to 100	**30WJ14**
—	4"	—	Carbon Steel	740	-20° to 100	**30WJ16**
—	6"	—	Carbon Steel	740	-20° to 100	**30WJ18**
Class 300 XS Butt Weld Pipe Flanges						
Weld Neck Flange						
—	4"	—	Carbon Steel	740	-20° to 100	**30WH89**
—	6"	—	Carbon Steel	740	-20° to 100	**30WH91**

Zinc Galvanized Pipe & Pipe Nipples, Schedule 40, 80 and 160

- MNPT connection

* Grainger's product supplier has certified that products marked "Made in USA" comply with "Made in USA" requirements in accordance with FTC rules and guidance.

Pipe and pipe nipples are thick-walled steel dipped in a protective zinc coating to resist rust, corrosion, and mineral buildup, and withstand wet conditions.

SCHEDULE 40: Low-pressure (100-299 psi). For air, water, oil, natural gas, and steam applications.

Schedule 40 Fully Threaded Low Pressure Nipple

Schedule 40 Threaded on Both Ends

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
Schedule 40 Fully Threaded Low Pressure Pipe Nipples				
⅛" Nominal Pipe Size				
Nipple	¾ in	Welded	**5P987**	—
¼" Nominal Pipe Size				
Nipple		Welded	—	**29VF66**
	⅞ in	Welded	**6P756**	—
⅜" Nominal Pipe Size				
Nipple	1 in	Welded	**6P770**	—
½" Nominal Pipe Size				
Nipple		Welded	—	**29VG13**
	1 ⅛ in	Welded	**6P787**	—

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
¾" Nominal Pipe Size				
Nipple		Welded	—	**29VG37**
	1 ⅛ in	Welded	**6P804**	—
1" Nominal Pipe Size				
Nipple		Welded	—	**29VG60**
Pipe	1 ½ in	Welded	**6P821**	—
1¼" Nominal Pipe Size				
Nipple		Welded	—	**29VG82**
	1 ⅜ in	Welded	**6P837**	—
1½" Nominal Pipe Size				
Nipple		Welded	—	**29VH06**
	1 ¾ in	Welded	**6P853**	—
2" Nominal Pipe Size				
Nipple		Welded	—	**29VH28**
	2 in	Welded	**6P869**	—
2½" Nominal Pipe Size				
Nipple		Welded	—	**29VH50**
	2 ½ in	Welded	**2WV34**	—
3" Nominal Pipe Size				
Nipple		Welded	—	**29VH70**
	2 ⅝ in	Welded	**2WV42**	—
3½" Nominal Pipe Size				
Nipple		Welded	—	**29VH90**
4" Nominal Pipe Size				
Nipple		Welded	—	**29VJ10**
	2 ⅞ in	Welded	**2WV50**	—
6" Nominal Pipe Size				
Nipple		Welded	—	**29VJ29**

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
Schedule 40 Threaded on Both Ends Pipe & Nipples				
⅛" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**5P988**	**29VF44**
	2 in	Welded	**5P989**	**29VF45**
	2 ½ in	Welded	**5P990**	**29VF46**
	3 in	Welded	**5P991**	**29VF47**
	3 ½ in	Welded	**5P992**	**29VF48**
	4 in	Welded	**5P993**	**29VF49**
	4 ½ in	Welded	**5P994**	**29VF50**
	5 in	Welded	**5P995**	**29VF51**
	5 ½ in	Welded	**5P996**	**29VF52**
	6 in	Welded	**5P997**	**29VF53**
	8 in	Welded	**5P998**	**29VF57**
	10 in	Welded	**5P999**	**29VF61**
	12 in	Welded	**6P933**	**29VF65**
¼" Nominal Pipe Size				
Nipple	1 ½ in	Welded	**6P757**	**29VF67**
	2 in	Welded	**6P758**	**29VF68**
	2 ½ in	Welded	**6P759**	**29VF69**
	3 in	Welded	**6P760**	**29VF70**
	3 ½ in	Welded	**6P761**	**29VF71**
	4 in	Welded	**6P762**	**29VF72**
	4 ½ in	Welded	**6P763**	**29VF73**
	5 in	Welded	**6P764**	**29VF74**
	5 ½ in	Welded	**6P765**	**29VF75**
	6 in	Welded	**6P766**	**29VF76**
	8 in	Welded	**6P767**	**29VF80**
	10 in	Welded	**6P768**	**29VF84**
	12 in	Welded	**6P769**	**29VF88**

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Zinc Galvanized Pipe & Pipe Nipples, Schedule 40, 80 and 160

SCHEDULE 40: Low-pressure (100-299 psi). For air, water, oil, natural gas, and steam applications.

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
⅜" Nominal Pipe Size				
Nipple	1 ½ in	Welded	6P771	29VF90
	2 in	Welded	6P772	29VF91
	2 ½ in	Welded	6P773	29VF92
	3 in	Welded	6P774	29VF93
	3 ½ in	Welded	6P775	29VF94
	4 in	Welded	6P776	29VF95
	4 ½ in	Welded	6P777	29VF96
	5 in	Welded	6P778	29VF97
	5 ½ in	Welded	6P779	29VF98
	6 in	Welded	6P780	29VF99
	7 in	Welded	2WV58	29VG02
	8 in	Welded	6P782	29VG04
½" Nominal Pipe Size				
Nipple	1 ½ in	Welded	6P788	29VG14
	2 in	Welded	6P789	29VG15
	2 ½ in	Welded	6P790	29VG16
	3 in	Welded	6P791	29VG17
	3 ½ in	Welded	6P792	29VG18
	4 in	Welded	6P793	29VG19
	4 ½ in	Welded	6P794	29VG20
	5 in	Welded	6P795	29VG21
	5 ½ in	Welded	6P796	29VG22
	6 ½ in	Welded	34DD17	29VG24
	6 in	Welded	6P797	29VG23
	7 in	Welded	6P798	29VG25
	8 in	Welded	6P799	29VG27
	9 in	Welded	6P800	29VG29
	11 in	Welded	2WV19	29VG33
	12 in	Welded	6P803	29VG35
Pipe	1-1/2 ft	Welded	6P884	—
	2 ft	Welded	6P885	—
	2-1/2 ft	Welded	6P886	—
	3 ft	Welded	6P887	—
	4 ft	Welded	6P888	—
	5 ft	Welded	6P889	—
	6 ft	Welded	6P890	—
	10 ft	Welded	5E556	—
¾" Nominal Pipe Size				
Nipple	1 ½ in	Welded	6P805	29VG38
	2 in	Welded	6P806	29VG39
	2 ½ in	Welded	6P807	29VG40
	3 in	Welded	6P808	29VG41
	3 ½ in	Welded	6P809	29VG42
	4 in	Welded	6P810	29VG43
	4 ½ in	Welded	6P811	29VG44
	5 in	Welded	6P812	29VG45
	5 ½ in	Welded	6P813	29VG46
	6 in	Welded	6P814	29VG47
	7 in	Welded	6P815	29VG49
	8 in	Welded	6P816	29VG51
	9 in	Welded	6P817	29VG53
	10 in	Welded	6P818	29VG55
	11 in	Welded	2WV20	29VG57
	12 in	Welded	6P820	29VG59
Pipe	1-1/2 ft	Welded	6P892	—
	2 ft	Welded	6P893	—
	2-1/2 ft	Welded	2WV21	—
	3 ft	Welded	6P895	—
	4 ft	Welded	2WV22	—
	5 ft	Welded	6P897	—
	6 ft	Welded	6P898	—
	10 ft	Seamless	5E557	—

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
1" Nominal Pipe Size				
Nipple	2 in	Welded	6P822	29VG61
	3 in	Welded	6P824	29VG63
	3 ½ in	Welded	6P825	29VG64
	4 in	Welded	6P826	29VG65
	4 ½ in	Welded	6P827	29VG66
	5 in	Welded	6P828	29VG67
	5 ½ in	Welded	6P829	29VG68
	6 in	Welded	6P830	29VG69
	7 in	Welded	6P831	29VG71
	8 in	Welded	6P832	29VG73
	10 in	Welded	6P834	29VG77
	12 in	Welded	6P836	29VG81
Pipe	1-1/2 ft	Welded	6P900	—
	2 ft	Welded	6P901	—
	2 ½ in	Welded	6P823	—
	2-1/2 ft	Welded	6P902	—
	3 ft	Welded	6P903	—
	4 ft	Welded	6P904	—
	5 ft	Welded	2WV23	—
	6 ft	Welded	6P906	—
	10 ft	Welded	5E558	—
1¼" Nominal Pipe Size				
Nipple	2 in	Welded	6P838	29VG83
	2 ½ in	Welded	6P839	29VG84
	3 in	Welded	6P840	29VG85
	3 ½ in	Welded	6P841	29VG86
	4 in	Welded	6P842	29VG87
	5 in	Welded	6P844	29VG89
	6 in	Welded	6P846	29VG91
	7 in	Welded	2WV24	29VG93
	8 in	Welded	6P848	29VG95
	9 in	Welded	2WV25	29VG97
	10 in	Welded	6P850	29VG99
	12 in	Welded	6P852	29VH04
Pipe	1-1/2 ft	Welded	2WV26	—
	2 ft	Welded	6P909	—
	3 ft	Welded	6P911	—
	4 ft	Welded	2WV27	—
	5 ft	Welded	6P913	—
	6 ft	Welded	6P914	—
	10 ft	Seamless	5E559	—
1½" Nominal Pipe Size				
Nipple	2 in	Welded	6P854	29VH07
	2 ½ in	Welded	6P855	29VH08
	3 in	Welded	6P856	29VH09
	3 ½ in	Welded	6P857	29VH10
	4 in	Welded	6P858	29VH11
	4 ½ in	Welded	6P859	29VH12
	5 in	Welded	6P860	29VH13
	5 ½ in	Welded	6P861	29VH14
	6 ½ in	Welded	34DD28	29VH16
	6 in	Welded	6P862	29VH15
	7 in	Welded	6P863	29VH17
	8 in	Welded	6P864	29VH19
	9 in	Welded	6P865	29VH21
	10 in	Welded	6P866	29VH23
	11 in	Welded	34DD32	29VH25
	12 in	Welded	6P868	29VH27
Pipe	1-1/2 ft	Welded	2WV28	—
	2 ft	Welded	6P917	—
	2-1/2 ft	Welded	2WV29	—
	3 ft	Welded	6P919	—
	4 ft	Welded	6P920	—
	5 ft	Welded	2WV30	—
	6 ft	Welded	6P922	—
	10 ft	Seamless	5E560	—

Item	Overall Length	Metal Pipe Construction	Globally Sourced Item No.	Made in USA* Item No.
2" Nominal Pipe Size				
Nipple	3 in	Welded	6P871	29VH30
	3 ½ in	Welded	6P872	29VH31
	4 in	Welded	6P873	29VH32
	4 ½ in	Welded	6P874	29VH33
	5 in	Welded	6P875	29VH34
	5 ½ in	Welded	6P876	29VH35
	6 in	Welded	6P877	29VH36
	7 in	Welded	6P878	29VH38
	8 in	Welded	6P879	29VH40
	9 in	Welded	2WV31	29VH42
	10 in	Welded	6P881	29VH44
	11 in	Welded	34DD40	29VH46
	12 in	Welded	6P883	29VH48
Pipe	1-1/2 ft	Welded	6P924	—
	2 ft	Welded	2WV32	—
	2 ½ in	Welded	6P870	29VH29
	2-1/2 ft	Welded	2WV33	—
	4 ft	Welded	6P928	—
	10 ft	Welded	5E561	—
2½" Nominal Pipe Size				
Nipple	3 in	Welded	2WV35	29VH51
	3 ½ in	Welded	34DD42	29VH52
	4 in	Welded	2WV36	29VH53
	4 ½ in	Welded	34DD44	29VH54
	5 in	Welded	2WV37	29VH55
	5 ½ in	Welded	34DD46	29VH56
	6 in	Welded	2WV38	29VH57
	7 in	Welded	34DD48	29VH59
	8 in	Welded	2WV39	29VH61
	10 in	Welded	2WV40	29VH65
	12 in	Welded	2WV41	29VH69
Pipe	10 ft	Welded	40L305	—
3" Nominal Pipe Size				
Nipple	3 in	Welded	2WV43	29VH71
	3 ½ in	Welded	34DD52	29VH72
	4 in	Welded	2WV44	29VH73
	4 ½ in	Welded	34DD54	29VH74
	5 in	Welded	2WV45	29VH75
	5 ½ in	Welded	34DD56	29VH76
	6 in	Welded	2WV46	29VH77
	7 in	Welded	34DD59	29VH79
	8 in	Welded	2WV47	29VH81
	10 in	Welded	2WV48	29VH85
	11 in	Welded	34DD65	29VH87
	12 in	Welded	2WV49	29VH89
Pipe	10 ft	Welded	40L306	—
4" Nominal Pipe Size				
Nipple	3 ½ in	Welded	—	29VJ11
	4 in	Welded	2WV51	29VJ12
	4 ½ in	Welded	34DD67	29VJ13
	5 in	Welded	2WV52	29VJ14
	5 ½ in	Welded	—	29VJ15
	6 in	Welded	2WV53	29VJ16
	7 in	Welded	34DD71	29VJ18
	8 in	Welded	2WV54	29VJ20
	10 in	Welded	2WV55	29VJ24
	12 in	Welded	2WV56	29VJ28
Pipe	10 ft	Welded	40L307	—
6" Nominal Pipe Size				
Nipple	3 ½ in	Welded	—	29VJ30
	4 in	Welded	34DD81	29VJ31
	4 ½ in	Welded	—	29VJ32
	5 in	Welded	34DD82	29VJ33
	5 ½ in	Welded	—	29VJ34
	6 in	Welded	34DD83	29VJ35
	6 ½ in	Welded	—	29VJ36
	7 in	Welded	—	29VJ37
	8 in	Welded	34DD84	29VJ39
	9 in	Welded	—	29VJ41
	10 in	Welded	—	29VJ43
	11 in	Welded	—	29VJ45
	12 in	Welded	34DD85	29VJ47

SCHEDULE 80: High-pressure (1000-3000 psi). For air, gas, and potable water applications.

Item	Nominal Pipe Size	Metal Pipe Construction	Made in USA* Item No.
Schedule 80 Threaded on Both Ends Low Pressure Pipe Nipples			
Carbon-Weld-Nipple	¼"	Welded	61TU73
	⅜"	Welded	61TU81
	½"	Welded	61TU87
	¾"	Welded	61TU90
	1½"	Welded	61TV08
	2"	Welded	61TV14

SCHEDULE 160: High-pressure (1000-3000 psi). For use with air, water, oil, natural gas, and steam in high-temperature boiler applications.

Item	Overall Length	Metal Pipe Construction	Globally Sourced Approved Vendor Item No.
Schedule 160 Fully Threaded High Pressure Pipe Nipples			
½" Nominal Pipe Size			
Nipple	1⅛"	Seamless	1RKK1
¾" Nominal Pipe Size			
Nipple	1⅛"	Seamless	1RKK7
Schedule 160 Threaded on Both Ends High Pressure Nipples			
½" Nominal Pipe Size			
Nipple	2"	Seamless	1RKK3
	6"	Seamless	1RKK6
¾" Nominal Pipe Size			
Nipple	1½"	Seamless	1RKK8
	3"	Seamless	1RKL1
1" Nominal Pipe Size			
Nipple	2"	Seamless	1RKL5
	3"	Seamless	1RKL6
	4"	Seamless	1RKL7
	6"	Seamless	1RKL8
2" Nominal Pipe Size			
Nipple	4"	Seamless	1RKP3
	6"	Seamless	1RKP4

Zinc Galvanized Pipe Nipple Assortments, Class 40

- NPT connection
- Welded construction
- Low-pressure (100-299 psi)

Schedule 40 pipe nipples have thicker walls than Schedule 10, but not as thick as Schedule 80.

Nominal Pipe Size	Included Lengths (All itemsclude 6 of each size)	No. of Pieces	Item No.
Schedule 40 Low Pressure Pipe Nipple Assortments			
¼"	1 ½, 2 ½, 2, 3 ½, 3, 4 ½, 4, 5 ½, 5, 6, Close	66	4PRV2
⅜"			4PRV4
½"			6KC78
¾"			6KC79
1"			6KC80
1 ¼"	2 ½, 2, 3 ½, 3, 4 ½, 4, 5 ½, 5, 6, Close	60	6KC81
1 ½"			6KC82
2"	2 ½, 3 ½, 3, 4 ½, 4, 5 ½, 5, 6, Close	45	6KC83

6KC82

Threaded Zinc Galvanized Steel Pipe Fittings, Class 150, 300 & 3000

These fittings are thick-walled steel dipped in a protective zinc coating to resist rust, corrosion, and mineral buildup, and withstand wet conditions.

CLASS 150: Medium-pressure (300-999 psi). For air, natural gas, oil, potable water, and steam applications.

Description	Fitting Pipe Size	Pipe Fitting Conec. Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 150 Medium Pressure Pipe Fittings (300-999 psi)					
45° Elbow					
	⅛" x ⅛"	FNPT	Malleable Iron	5P830	25CF31
	¼" x ¼"	FNPT	Malleable Iron	5P831	25CF32
	⅜" x ⅜"	FNPT	Malleable Iron	5P832	25CF33
	½" x ½"	FNPT	Malleable Iron	5P833	25CF34
	¾" x ¾"	FNPT	Malleable Iron	5P834	25CF35
	1" x 1"	FNPT	Malleable Iron	5P835	25CF36
	1¼" x 1¼"	FNPT	Malleable Iron	5P836	25CF37
	1½" x 1½"	FNPT	Malleable Iron	5P837	25CF38
	2" x 2"	FNPT	Malleable Iron	5P838	25CF39
	3" x 3"	FNPT	Malleable Iron	2WJ11	25CF41
	4" x 4"	FNPT	Malleable Iron	2WJ12	—
45° Street Elbow					
	⅛" x ⅛"	FNPT x MNPT	Malleable Iron	34DC57	25CF45
	¼" x ¼"	FNPT x MNPT	Malleable Iron	34DC58	25CF46
	½" x ½"	FNPT x MNPT	Malleable Iron	5P839	25CF48
	¾" x ¾"	FNPT x MNPT	Malleable Iron	5P840	25CF49
	1" x 1"	FNPT x MNPT	Malleable Iron	6KJ06	25CF50
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	34DC60	25CF51
	1½" x 1½"	FNPT x MNPT	Malleable Iron	34DC61	25CF52
	2" x 2"	FNPT x MNPT	Malleable Iron	34DC62	25CF53
	3" x 3"	FNPT x MNPT	Malleable Iron	2WJ18	—
	4" x 4"	FNPT x MNPT	Malleable Iron	2WJ19	—
90° Elbow					
	⅛" x ⅛"	FNPT	Malleable Iron	5P795	25CE95
	¼" x ¼"	FNPT	Malleable Iron	5P796	25CE96
	⅜" x ⅜"	FNPT	Malleable Iron	5P797	25CE97
	½" x ½"	FNPT	Malleable Iron	5P798	25CE98
	¾" x ¾"	FNPT	Malleable Iron	5P799	25CE99
	1" x 1"	FNPT	Malleable Iron	5P800	25CF01
	1¼" x 1¼"	FNPT	Malleable Iron	5P801	25CF02
	1½" x 1½"	FNPT	Malleable Iron	5P802	25CF03
	2" x 2"	FNPT	Malleable Iron	5P803	25CF04
	2½" x 2½"	FNPT	Malleable Iron	2WE84	25CF05
	3" x 3"	FNPT	Malleable Iron	2WE85	25CF06
	3½" x 3½"	FNPT	Malleable Iron	—	25CF07
	4" x 4"	FNPT	Malleable Iron	2WE82	25CF08
	5" x 5"	FNPT	Malleable Iron	—	25CF09
	6" x 6"	FNPT	Malleable Iron	—	25CF10
90° Reducing Elbow					
	⅜" x ¼"	FNPT	Malleable Iron	5P804	—
	¾" x ⅜"	FNPT	Malleable Iron	5P808	29JA91
	¾" x ½"	FNPT	Malleable Iron	—	29JA90
	1" x ¾"	FNPT	Malleable Iron	5P809	29JA93
	1¼" x ¾"	FNPT	Malleable Iron	5P812	29JA97
	2" x 1½"	FNPT	Malleable Iron	5P816	—
	2½" x 2"	FNPT	Malleable Iron	2WE99	—
	3" x 2"	FNPT	Malleable Iron	—	29JC10
	3" x 2½"	FNPT	Malleable Iron	—	29JC09
90° Street Elbow					
	⅛" x ⅛"	FNPT x MNPT	Malleable Iron	5P819	25CF11
	¼" x ¼"	FNPT x MNPT	Malleable Iron	5P820	25CF12
	⅜" x ⅜"	FNPT x MNPT	Malleable Iron	5P821	25CF13
	½" x ½"	FNPT x MNPT	Malleable Iron	5P822	25CF14
	¾" x ¾"	FNPT x MNPT	Malleable Iron	5P823	25CF15
	1" x 1"	FNPT x MNPT	Malleable Iron	5P824	25CF16
	1¼" x 1¼"	FNPT x MNPT	Malleable Iron	5P825	25CF17
	1½" x 1½"	FNPT x MNPT	Malleable Iron	5P826	25CF18
	2" x 1½"	FNPT x MNPT	Malleable Iron	—	25CF30
	2" x 2"	FNPT x MNPT	Malleable Iron	5P827	25CF19
	2½" x 2½"	FNPT x MNPT	Malleable Iron	—	25CF20
	3" x 3"	FNPT x MNPT	Malleable Iron	2WJ14	25CF21
	4" x 4"	FNPT x MNPT	Malleable Iron	2WJ15	25CF22
Coupling					
	⅛" x ⅛"	FNPT	Malleable Iron	5P916	—
	¼" x ¼"	FNPT	Malleable Iron	5P917	25CF78
	⅜" x ⅜"	FNPT	Malleable Iron	5P918	25CF79
	½" x ½"	FNPT	Malleable Iron	5P919	25CF80
	¾" x ¾"	FNPT	Malleable Iron	5P920	25CF81
	1" x 1"	FNPT	Malleable Iron	5P921	25CF82
	1¼" x 1¼"	FNPT	Malleable Iron	5P922	25CF83
	1½" x 1½"	FNPT	Malleable Iron	5P923	25CF84
	2" x 2"	FNPT	Malleable Iron	5P924	25CF85
	2½" x 2½"	FNPT	Malleable Iron	2WJ44	25CF86
	3" x 3"	FNPT	Malleable Iron	2WJ45	25CF87
	4" x 4"	FNPT	Malleable Iron	2WJ46	—
Cross					
	¼"	FNPT	Malleable Iron	—	29JD33
	½"	FNPT	Malleable Iron	5P985	29JD35
	¾"	FNPT	Malleable Iron	5P986	29JD36
	1"	FNPT	Malleable Iron	6KJ40	29JD37
	1¼"	FNPT	Malleable Iron	6KJ41	29JD38
	1½"	FNPT	Malleable Iron	6KJ42	29JD39
	2"	FNPT	Malleable Iron	6KJ43	29JD40
	2½"	FNPT	Malleable Iron	2WJ41	—
Hex Bushing					
	¼" x ⅛"	FNPT x MNPT	Malleable Iron	5P874	—
	⅜" x ⅛"	FNPT x MNPT	Malleable Iron	5P875	—
	⅜" x ¼"	FNPT x MNPT	Malleable Iron	5P876	—
	½" x ⅛"	FNPT x MNPT	Malleable Iron	5P877	—
	½" x ¼"	MNPT x FNPT	Malleable Iron	5P878	—
	½" x ⅜"	FNPT x MNPT	Malleable Iron	5P879	—
	¾" x ¼"	FNPT x MNPT	Malleable Iron	5P880	25CG59
	¾" x ⅜"	FNPT x MNPT	Malleable Iron	5P881	25CG58
	¾" x ½"	FNPT x MNPT	Malleable Iron	5P882	25CG57
	1" x ⅛"	FNPT x MNPT	Malleable Iron	—	25CG65
	1" x ⅛"	MNPT x FNPT	Malleable Iron	34DC85	—
	1" x ¼"	FNPT x MNPT	Malleable Iron	—	25CG64
	1" x ⅜"	FNPT x MNPT	Malleable Iron	5P883	25CG63
	1" x ½"	FNPT x MNPT	Malleable Iron	5P884	25CG62
	1" x ¾"	FNPT x MNPT	Malleable Iron	5P885	25CG61
	1¼" x ½"	FNPT x MNPT	Malleable Iron	5P886	25CG68
	1¼" x ¾"	FNPT x MNPT	Malleable Iron	5P887	25CG67
	1¼" x 1"	FNPT x MNPT	Malleable Iron	5P888	25CG66
	1½" x ½"	MNPT x FNPT	Cast Iron	—	29JD61
	1½" x ½"	FNPT x MNPT	Malleable Iron	5P889	—
	1½" x ¾"	FNPT x MNPT	Malleable Iron	5P890	—
	1½" x 1"	FNPT x MNPT	Malleable Iron	5P891	—
	1½" x 1¼"	FNPT x MNPT	Malleable Iron	5P892	25CG71
	2" x ½"	FNPT x MNPT	Malleable Iron	5P893	—
	2" x ¾"	FNPT x MNPT	Malleable Iron	5P894	—
	2" x 1"	FNPT x MNPT	Malleable Iron	5P895	—
	2" x 1½"	FNPT x MNPT	Malleable Iron	5P897	25CG72
	2½" x 2"	FNPT x MNPT	Malleable Iron	2WJ96	25CG73
	3" x 1½"	FNPT x MNPT	Malleable Iron	2WJ82	—
	3" x 2"	FNPT x MNPT	Malleable Iron	2WJ83	—
	3" x 2½"	FNPT x MNPT	Malleable Iron	2WJ84	—
	4" x 2"	FNPT x MNPT	Malleable Iron	2WJ89	—
	4" x 3"	FNPT x MNPT	Malleable Iron	2WJ77	—
Locknut					
	⅜"	FNPT	Malleable Iron	5P978	—
	½"	FNPT	Malleable Iron	5P979	—
	¾"	FNPT	Malleable Iron	5P980	25CG86
	1¼"	FNPT	Malleable Iron	5P982	25CG88
	1½"	FNPT	Malleable Iron	5P983	—
	2"	FNPT	Malleable Iron	5P984	—
Merchant Coupling					
	⅛" x ⅛"	FNPT	Steel	2KME5	—
	¼" x ¼"	FNPSC x FNPSC	Steel	2KME6	—
	⅜" x ⅜"	FNPSC	Steel	2KME7	—
	½" x ½"	FNPSC	Steel	2KME8	—
	¾" x ¾"	FNPSC	Steel	2KME9	—
	1" x 1"	FNPSC	Steel	2KMF1	—
	1¼" x 1¼"	FNPSC	Steel	2KMF2	—
	1½" x 1½"	FNPSC	Steel	2KMF3	—
	2" x 2"	FNPSC	Steel	2KMF4	—
	3" x 3"	FNPT	Steel	2KMF6	—
	4" x 4"	FNPT	Steel	2KMF7	—
Reducing Coupling					
	¼" x ⅛"	FNPT	Malleable Iron	5P925	25CF89
	⅜" x ⅛"	FNPT	Malleable Iron	34DC69	25CF91
	⅜" x ¼"	FNPT	Malleable Iron	5P926	25CF90
	½" x ⅛"	FNPT	Malleable Iron	5P930	—
	½" x ¼"	FNPT	Malleable Iron	5P929	25CF93
	½" x ⅜"	FNPT	Malleable Iron	5P928	25CF92
	¾" x ¼"	FNPT	Malleable Iron	5P933	25CF97
	¾" x ⅜"	FNPT	Malleable Iron	5P932	25CF96
	¾" x ½"	FNPT	Malleable Iron	5P931	25CF95
	1" x ¼"	FNPT	Malleable Iron	34DC71	25CG03
	1" x ⅜"	FNPT	Malleable Iron	34DC72	25CG02
	1" x ½"	FNPT	Malleable Iron	5P935	25CG01
	1" x ¾"	FNPT	Malleable Iron	5P934	25CF99
	1¼" x ½"	FNPT	Malleable Iron	5P938	25CG06
	1¼" x ¾"	FNPT	Malleable Iron	5P937	25CG05
	1¼" x 1"	FNPT	Malleable Iron	5P936	25CG04
	1½" x ½"	FNPT	Malleable Iron	5P942	25CG10
	1½" x ¾"	FNPT	Malleable Iron	5P941	25CG09

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Threaded Zinc Galvanized Steel Pipe Fittings, Class 150, 300 & 3000

CLASS 150: Medium-pressure (300-999 psi). For air, natural gas, oil, potable water, and steam applications.

Description	Fitting Pipe Size	Pipe Fitting Conec. Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 150 Medium Pressure Pipe Fittings (300-999 psi) (Cont.)					
Reducing Coupling (Cont.)					
	1½" x 1"	FNPT	Malleable Iron	5P940	25CG08
	1½" x 1¼"	FNPT	Malleable Iron	5P939	25CG07
	2" x ½"	FNPT	Malleable Iron	34DC73	—
	2" x ¾"	FNPT	Malleable Iron	34DC74	25CG14
	2" x 1"	FNPT	Malleable Iron	5P945	25CG13
	2" x 1¼"	FNPT	Malleable Iron	5P944	25CG12
	2" x 1½"	FNPT	Malleable Iron	5P943	25CG11
	2½" x 1¼"	FNPT	Malleable Iron	2WJ64	25CG18
	2½" x 2"	FNPT	Malleable Iron	2WJ66	25CG16
	3" x 1¼"	FNPT	Malleable Iron	2WJ53	—
	3" x 1½"	FNPT	Malleable Iron	2WJ54	25CG22
	3" x 2"	FNPT	Malleable Iron	2WJ55	25CG21
	3" x 2½"	FNPT	Malleable Iron	2WJ56	25CG20
	4" x 1½"	FNPT	Malleable Iron	2WJ59	—
	4" x 2"	FNPT	Malleable Iron	2WJ60	25CG31
	4" x 3"	FNPT	Malleable Iron	2WJ50	25CG29
	6" x 4"	FNPT	Malleable Iron	—	25CG34
Reducing Tee					
	1" x ¾" x ¾"	FNPT	Malleable Iron	5P861	—
	2" x ¾" x 2"	FNPT	Malleable Iron	34DD10	—
	2" x 2" x 1¼"	FNPT	Malleable Iron	—	29JC78
	2" x 2" x ½"	FNPT	Malleable Iron	34DD13	29JC81
	2" x 2" x ¾"	FNPT	Malleable Iron	34DD14	29JC80
	2" x 2" x 1"	FNPT	Malleable Iron	34DD15	29JC79
	2½" x 2½" x ¾"	FNPT	Malleable Iron	2WJ36	—
Round Cap					
	⅛"	FNPT	Malleable Iron	5P898	—
	¼"	FNPT	Malleable Iron	5P899	—
	⅜"	FNPT	Malleable Iron	5P900	—
	½"	FNPT	Malleable Iron	5P901	25CG45
	¾"	FNPT	Malleable Iron	5P902	25CG46
	1"	FNPT	Malleable Iron	5P903	25CG47
	1¼"	FNPT	Malleable Iron	5P904	25CG48
	1½"	FNPT	Malleable Iron	5P905	25CG49
	2"	FNPT	Malleable Iron	5P906	25CG50
	2½"	FNPT	Malleable Iron	2WJ67	25CG51
	3"	FNPT	Malleable Iron	2WJ68	25CG52
	3½"	FNPT	Malleable Iron	—	25CG53
	4"	FNPT	Malleable Iron	2WJ69	25CG54
	5"	FNPT	Malleable Iron	—	25CG55
	6"	FNPT	Malleable Iron	—	25CG56
Square Head Plug					
	⅛"	MNPT	Malleable Iron	5P907	—
	¼"	MNPT	Malleable Iron	5P908	—
	⅜"	MNPT	Malleable Iron	5P909	—
	½"	MNPT	Malleable Iron	5P910	—
	½"	MNPT	Steel	—	25CH10
	¾"	MNPT	Malleable Iron	5P911	—
	¾"	MNPT	Steel	—	25CH11
	1"	MNPT	Malleable Iron	5P912	—
	1¼"	MNPT	Malleable Iron	5P913	—
	1½"	MNPT	Malleable Iron	5P914	—
	2"	MNPT	Malleable Iron	5P915	—
	2½"	MNPT	Malleable Iron	2WJ74	—
	3"	MNPT	Malleable Iron	2WJ75	—
	4"	MNPT	Malleable Iron	2WJ76	—
Tee					
	⅛"	FNPT	Malleable Iron	5P841	25CF54
	¼"	FNPT	Malleable Iron	5P842	25CF55
	⅜"	FNPT	Malleable Iron	5P843	25CF56
	½"	FNPT	Malleable Iron	5P844	25CF57
	¾"	FNPT	Malleable Iron	5P845	25CF58
	1"	FNPT	Malleable Iron	5P846	25CF59
	1¼"	FNPT	Malleable Iron	5P847	25CF60
	1½"	FNPT	Malleable Iron	5P848	25CF61
	2"	FNPT	Malleable Iron	5P849	25CF62
	2½"	FNPT	Malleable Iron	2WJ20	25CF63
	3"	FNPT	Malleable Iron	2WJ21	25CF64
	4"	FNPT	Malleable Iron	2WJ22	25CF66
Union					
	⅛" x ⅛"	FNPT	Malleable Iron	5P955	25CG91
	¼" x ¼"	FNPT	Malleable Iron	5P956	25CG92
	⅜" x ⅜"	FNPT	Malleable Iron	5P957	25CG93
	½" x ½"	FNPT	Malleable Iron	5P958	25CG94
	¾" x ¾"	FNPT	Malleable Iron	5P959	25CG95
	1" x 1"	FNPT	Malleable Iron	5P960	25CG97
	1¼" x 1¼"	FNPT	Malleable Iron	5P961	25CG98
	1½" x 1½"	FNPT	Malleable Iron	5P962	25CG99
	2" x 2"	FNPT	Malleable Iron	5P963	25CH01
	2½" x 2½"	FNPT	Malleable Iron	2WJ71	25CH02
	3" x 3"	FNPT	Malleable Iron	2WJ72	25CH03
	4" x 4"	FNPT	Malleable Iron	2WJ73	—

CLASS 300: Medium- to high-pressure (300-3000 psi). For air, water, oil, natural gas, and steam applications.

Description	Fitting Pipe Size	Pipe Fitting Conec. Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 300 Medium to High Pressure Pipe Fittings (300-3000 psi)					
90° Elbow					
	½" x ½"	FNPT	Malleable Iron	1LBG7	—
	¾" x ¾"	FNPT	Malleable Iron	1LBG8	—
	1" x 1"	FNPT	Malleable Iron	1LBG9	—
	1¼" x 1¼"	FNPT	Malleable Iron	1LBH1	—
	1½" x 1½"	FNPT	Malleable Iron	1LBH2	—
	2" x 2"	FNPT	Malleable Iron	1LBH3	—
90° Street Elbow					
	½" x ½"	FNPT x MNPT	Malleable Iron	1LBK9	—
	¾" x ¾"	FNPT x MNPT	Malleable Iron	1LBL1	—
Coupling					
	2" x 2"	FNPT	Malleable Iron	1LBP5	—
	3" x 3"	FNPT	Malleable Iron	1LBP7	—
Reducing Coupling					
	⅜" x ¼"	FNPT	Malleable Iron	1XKV3	—
	¾" x ½"	FNPT	Malleable Iron	1XKV7	—
Square Head Plug					
	⅜"	MNPT	Malleable Iron	5PAT0	—
	1"	MNPT	Malleable Iron	5PAT3	—
	1¼"	MNPT	Malleable Iron	5PAT4	—
	1½"	MNPT	Malleable Iron	5PAT5	—
	2"	MNPT	Malleable Iron	5PAT6	—
Tee					
	¾"	FNPT	Malleable Iron	1LBL9	—
	1"	FNPT	Malleable Iron	1LBN1	—
	1¼"	FNPT	Malleable Iron	1LBN2	—
	1½"	FNPT	Malleable Iron	1LBN3	—
	2"	FNPT	Malleable Iron	1LBN4	—
Union					
	½" x ½"	FNPT	Malleable Iron	1LBT1	—
	¾" x ¾"	FNPT	Malleable Iron	1LBT2	—
	1" x 1"	FNPT	Malleable Iron	1LBT3	—
	1½" x 1½"	FNPT	Malleable Iron	1LBT5	—
	2" x 2"	FNPT	Malleable Iron	1LBT6	—

CLASS 3000: High-pressure (1000-3000 psi). For use with water and oil in chemical, petrochemical, pulp, and paper industry applications.

Description	Fitting Pipe Size	Pipe Fitting Conec. Type	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
Class 3000 High Pressure Pipe Fittings (1000-3000 psi)					
90° Elbow					
	½" x ½"	FNPT	Forged Steel	1MPC5	—
	¾" x ¾"	FNPT	Forged Steel	1MPC6	—
	1" x 1"	GRAINGER APPROVED Forged Steel	Forged Steel	1MPC7	—
	2" x 2"	FNPT	Forged Steel	1MPD1	—
90° Street Elbow					
	¼" x ¼"	FNPT x MNPT	Forged Steel	1MPD2	—
Coupling					
	1¼" x 1¼"	FNPT	Forged Steel	1MPH4	—
	1½" x 1½"	FNPT	Forged Steel	1MPH5	—
	2" x 2"	FNPT	Forged Steel	1MPH6	—
Half Coupling					
	¾"	FNPT	Forged Steel	1MPJ1	—
Hex Bushing					
	⅜" x ¼"	MNPT x FNPT	Forged Steel	1MPN3	—
	½" x ⅜"	MNPT x FNPT	Forged Steel	1MPN4	—
	¾" x ½"	MNPT x FNPT	Forged Steel	1MPN5	—
	1" x ½"	MNPT x FNPT	Forged Steel	1MPN6	—
	1½" x 1¼"	MNPT x FNPT	Forged Steel	1MPN9	—
	2" x 1½"	FNPT x MNPT	Forged Steel	1MPP1	—
Hex Head Plug					
	½"	MNPT	Forged Steel	1MPL6	—
	2"	MNPT	Forged Steel	1MPN2	—
Tee					
	½"	FNPT	Forged Steel	1MPF2	—
	¾"	FNPT	Forged Steel	1MPF3	—
	1"	FNPT	Forged Steel	1MPF4	—
	1½"	FNPT	Forged Steel	1MPF6	—
	2"	FNPT	Forged Steel	1MPF7	—
Union					
	½" x ½"	FNPT	Forged Steel	1MPJ8	—
	¾" x ¾"	FNPT	Forged Steel	1MPJ9	—
	1" x 1"	FNPT	Forged Steel	1MPK1	—
	1¼" x 1¼"	FNPT	Forged Steel	1MPK2	—
	1½" x 1½"	FNPT	Forged Steel	1MPK3	—
	2" x 2"	FNPT	Forged Steel	1MPK4	—

Compression Zinc Galvanized Steel Pipe Fittings

- EPDM seal
- Max. steam pressure: 125 psi

Temporarily repair new or existing pipelines for transporting oil, water, gas, and other liquids for chemical, waste incineration, and semiconductor industry applications. Includes metal friction rings and iron nuts. Fittings do not require soldering or gluing, but are not as resistant to vibration as soldered or welded fittings. Thick-walled steel dipped in a protective zinc coating resists rust, corrosion, and mineral buildup, and withstand wet conditions.

1RLW6

Pipe Size	Pipe Fitting Connection Type	Overall Length	Item No.
½"	IPS and CTS	3¹⁵⁄₁₆"	**1RLW6**
¾"	IPS and CTS	4"	**1RLW7**
1"	IPS and CTS	4⅜"	**1RLW8**

ANVIL INTERNATIONAL Building Connections That Last

Zinc Galvanized Steel Pipe Flanges, Class 125, 150 & 300

- FNPT connections

These screwed flanges include threads inside the flange bore that connect to the external threads on a pipe without welding. They typically have a raised, flat, or RTJ (ring-type joint) face. Flanges transport oil, water, gas, and other liquids for chemical, waste incineration, and semiconductor industry applications. Thick-walled steel is dipped in a protective zinc coating to resist rust, corrosion, and mineral buildup, and withstand wet conditions.

CLASS 125: Low-pressure (100-299 psi). For air, non-potable water, and oil applications.

Nominal Pipe Size	Flange Outside Diameter	Pipe Fitting Material	Max. Operating Pressure	Brand	Item No.
Class 125 Low Pressure Flanges					
Threaded Flange					
1"	4¼"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY93**
1½"	5"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY94**
2"	6"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY95**
2"	7½"	Cast-Iron	175 psi @ 150° F	Anvil	**60XZ01**
2"	9"	Cast-Iron	175 psi @ 150° F	Anvil	**60XZ02**
2½"	7"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY96**
3"	7½"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY97**
4"	9"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY98**
6"	11"	Cast-Iron	175 psi @ 150° F	Anvil	**60XY99**

Class 125 Low Pressure 60XZ01

CLASS 150: Medium-pressure (300-399 psi). For air, water, natural gas, and steam applications.

Nominal Pipe Size	Flange Outside Diameter	Pipe Fitting Material	Max. Operating Pressure	Temp. Range	No. of Bolt Holes	Brand	Item No.
Class 150 Medium Pressure Flanges							
Floor Flange							
¼"	2⅜"	Malleable-Iron	300 psi	-20° to 150° F	4	—	**5P965**
⅜"	3"	Malleable-Iron	300 psi	-20° to 150° F	4	—	**5P966**
½"	3½"	Ductile-Iron	—	—	4	Anvil	**25CG39**
½"	3½"	Malleable-Iron	300 psi	—	4	—	**5P967**
¾"	3¼"	Malleable-Iron	300 psi	—	4	—	**5P968**
¾"	3½"	Ductile-Iron	—	—	4	Anvil	**25CG40**
1"	3⅞"	Malleable-Iron	300 psi	—	4	—	**5P969**
1"	4"	Ductile-Iron	—	-20° to 150° F	4	Anvil	**25CG41**
1¼"	3⅞"	Malleable-Iron	300 psi	—	4	—	**5P970**
1¼"	4"	Ductile-Iron	—	-20° to 150° F	4	Anvil	**25CG42**
1½"	4½"	Ductile-Iron	—	-20° to 150° F	4	Anvil	**25CG43**
1½"	4½"	Malleable-Iron	300 psi	—	4	—	**5P971**
2"	5½"	Ductile-Iron	—	—	4	Anvil	**25CG44**
2"	5½"	Malleable-Iron	300 psi	—	4	—	**5P972**
3"	7⅞"	Malleable-Iron	300 psi	-4°F to 572° F	4	—	**2WJ70**

Class 150 Medium Pressure 5P965

CLASS 300: High-pressure (1000-3000 psi). For air, natural gas, non-potable water, oil, and steam applications.

Nominal Pipe Size	Flange Outside Diameter	Pipe Fitting Material	Max. Operating Pressure	Temp. Range	No. of Bolt Holes	Item No.
Class 300 Medium Pressure Flanges						
Raised Face Threaded Flange						
½"	3¾"	Steel	725 psi	80° to 780° F	4	**60VY15**
¾"	4⅝"	Steel	725 psi	80° to 780° F	4	**60VY20**
1"	4⅞"	Steel	725 psi	80° to 780° F	4	**60VY14**
1¼"	5¼"	Steel	725 psi	80° to 780° F	4	**60VY17**
1½"	6⅛"	Steel	725 psi	80° to 780° F	4	**60VY16**
2"	6½"	Steel	725 psi	80° to 780° F	8	**60VY18**
3"	8¼"	Steel	725 psi	80° to 780° F	8	**60VY19**
4"	10"	Steel	725 psi	80° to 780° F	8	**60VY21**

Class 300 Medium Pressure 60VY15

Grooved Ductile Iron Pipe Fittings, Clamps & Flanges, Class 150

- Ductile iron material
- Max. operating pressure: 300 psi @ 150° F, except end caps are 1000 psi
- Orange color
- Tees read: run x run x outlet

Fittings and flanges are commonly used in rigid pipe systems, above-ground pipe installations, and in tight spaces including subfloors, crawl spaces, trenches, and tunnels. Grooved ductile iron is lighter, stronger, and more durable than cast iron. Iron absorbs vibration, handles stress without breaking, and works with water, diluted acids, alkali solutions, oil-free air, and other chemicals.

Grooved fittings combine roll-grooving and two-bolt coupling designs in a joint that resists external forces without special supports or expansion joints, and help maintain secure seals under both positive pressure and vacuum conditions. Grooved connection.

Threaded outlet pipe clamps are grooved and fit around pipe lengths similar to a saddle. They include a branch outlet that maintains a leaktight seal under both positive pressure and vacuum conditions. Grooved x grooved x NPT connection.

Grooved flanges provide easy access for cleaning, inspection, and modification. Flanged x grooved connection.

Grooved Pipe Fittings

45° Elbow

Description	Fitting Pipe Size	Seal Material	Item No.
45° Elbow	2" x 2"	—	2XEV7
	2½" x 2½"	—	2XEV8
	3" x 3"	—	2XEV9
	4" x 4"	—	2XEW1
	6" x 6"	—	2XEW2
	8" x 8"	—	2XEW3

Description	Fitting Pipe Size	Seal Material	Item No.
90° Elbow	2" x 2"	—	2XEV1
	2½" x 2½"	—	2XEV2
	3" x 3"	—	2XEV3
	4" x 4"	—	2XEV4
	6" x 6"	—	2XEV5
	8" x 8"	—	2XEV6

Description	Fitting Pipe Size	Seal Material	Item No.
Concentric Reducer Coupling	2½" x 2"	—	2XFA6
	3" x 2"	—	2XFA7
	3" x 2½"	—	2XFA8
	4" x 2"	—	2XFA9
	4" x 2½"	—	2XFC1
	4" x 3"	—	2XFC2
	6" x 2"	—	2XFC3
	6" x 3"	—	2XFC4
	6" x 4"	—	2XFC5
	8" x 4"	—	2XFC6
	8" x 6"	—	2XFC7

Description	Fitting Pipe Size	Seal Material	Item No.
End Cap	2"	—	2XFC8
	2½"	—	2XFE3
	3"	—	2XFC9
	4"	—	2XFD1
	6"	—	2XFD2
	8"	—	2XFD3

Description	Fitting Pipe Size	Seal Material	Item No.
Flexible Coupling	2" x 2"	EPDM	2XET1
	2½" x 2½"	EPDM	2XET2
	3" x 3"	EPDM	2XET3
	4" x 4"	EPDM	2XET4
	6" x 6"	EPDM	2XET5
	8" x 8"	EPDM	2XET6

Description	Fitting Pipe Size	Seal Material	Item No.
Reducing Tee	3" x 3" x 2"	—	2XEX1
	3" x 3" x 2½"	—	2XEX5
	4" x 4" x 2"	—	2XEX2
	4" x 4" x 2½"	—	2XEX6
	4" x 4" x 3"	—	2XEX7
	6" x 6" x 2"	—	2XEX3
	6" x 6" x 3"	—	2XEX8
	6" x 6" x 4"	—	2XEX9
	8" x 8" x 2"	—	2XEX4
	8" x 8" x 4"	—	2XEY1
	8" x 8" x 6"	—	2XEY2

Description	Fitting Pipe Size	Seal Material	Item No.
Rigid Coupling	2" x 2"	EPDM	2XET7
	2½" x 2½"	EPDM	2XET8
	3" x 3"	EPDM	2XET9
	4" x 4"	EPDM	2XEU1
	6" x 6"	EPDM	2XEU2
	8" x 8"	EPDM	2XEU3

Description	Fitting Pipe Size	Seal Material	Item No.
Roughneck Coupling	2" x 2"	EPDM	46KK65 *
	2½" x 2½"	EPDM	46KK66 *
	3" x 3"	EPDM	46KK67 *
	4" x 4"	EPDM	46KK68 *
	5" x 5"	EPDM	46KK69 *
	6" x 6"	EPDM	46KK70 *
	8" x 8"	EPDM	46KK71 *

Description	Fitting Pipe Size	Seal Material	Item No.
Tee	2" x 2" x 2"	—	2XEW4
	2½" x 2½" x 2½"	—	2XEW5
	3" x 3" x 3"	—	2XEW6
	4" x 4" x 4"	—	2XEW7
	6" x 6" x 6"	—	2XEW8
	8" x 8" x 8"	—	2XEW9

Threaded Outlet Pipe Clamps

Description	Fitting Pipe Size	Seal Material	Item No.
Clamp with Grooved Branch	4" x 2" x 2"	EPDM	2XEY3
	4" x 2½" x 2½"	EPDM	2XEY4
	4" x 3" x 3"	EPDM	2XEY5
	6" x 2" x 2"	EPDM	2XEY6
	6" x 2½" x 2½"	EPDM	2XEY7
	6" x 3" x 3"	EPDM	2XEY8
	6" x 4" x 4"	EPDM	2XEY9
	8" x 2" x 2"	EPDM	2XEZ1
	8" x 2½" x 2½"	EPDM	2XEZ2
	8" x 3" x 3"	EPDM	2XEZ3
	8" x 4" x 4"	EPDM	2XEZ4

Description	Fitting Pipe Size	Seal Material	Item No.
Clamp-T with Threaded Branch	2" x 1½" x 1½"	EPDM	2XEZ5
	2½" x 1½" x 1½"	EPDM	2XEZ6
	3" x 1½" x 2"	EPDM	2XEZ7
	3" x 2" x 1½"	EPDM	2XEZ8
	4" x 1½" x 2"	EPDM	2XEZ9
	4" x 2" x 2"	EPDM	2XFA1
	6" x 2" x 2½"	EPDM	2XFA2
	6" x 2½" x 2"	EPDM	2XFA3
	8" x 2" x 2½"	EPDM	2XFA4
	8" x 2½" x 1¼"	EPDM	2XFA5

Grooved Flanges

Description	Fitting Pipe Size	Seal Material	Item No.
Flange with EPDM Seal	2"	—	2XEU4
	2½"	—	2XEU5
	3"	—	2XEU6
	4"	—	2XEU7
	6"	—	2XEU8
	8"	—	2XEU9

** Anvil brand.*

Ductile-Iron Gaskets and Lubricants

Gasket material properties as designated in accordance with ASTM D2000.

Note: EPDM Gaskets not for use in petroleum applications.

Gaskets—EPDM Grade EP gaskets are for use with alkalies, dilute acids, salts, and water. Not for use with gases, hydrocarbons, and oils. **Nitrile Grade T** gaskets are for use with mineral oils, petroleum products, vegetable oils, and air contaminated with petroleum oils. Not for use in hot water applications. NSF Certified.

Silicone Lubricants—Waterproof and remain effective at extreme temperatures. Permit pipe ends to reposition themselves. Nontoxic and not petroleum based.

Size	EPDM, Grade EP, Temp. Range: -40° to 250°F Item No.	Nitrile, Grade T, Temp. Range: -20° to 180°F Item No.
Gaskets		
2"	12G538	39A247
2½"	12G539	39A248
3"	12G540	39A249
4"	12G541	39A250
6"	12G542	39A251
8"	12G543	39A252

2XFE1

Size	Item No.
Silicone Lubricants, Temp. Range: -65° to 400°F	
10 oz	2XFE2
2.2 lb	2XFE1

Ductile-Iron Grooved Butterfly Valves

- Max. pressure: 300 psi
- Temp. range: -40° to 230°F

Corrosion-resistant stainless steel stems have a secondary seal that provides a lifetime lubrication chamber. With EPDM liner and 4 bolt holes.

Note: Not for use in petroleum applications.

Lever-Operated—Have lever handles; maintain a constant leaktight stem seal regardless of disc position. Meet MSS SP-67, except 3DVX7, 3DVY3, and 3DVY4 are UL Listed and FM Approved.

Gear-Operated—With 2 internal switches: 1 is wired for supervisory service; the other is for use as an auxiliary switch. Switches are rated for 11A at 125/150VAC; 0.5A at 125VDC; 0.25A at 250VDC. UL Listed; FM Approved.

Pipe Size	Bolt Circle Dia.	Item No.
Lever Handle		
2"	3 in	2XFD4
2½"	3 in	2XFD5
2½"	—	3DVX7
3"	3 in	2XFD6
4"	3 in	2XFD7
6"	3 in	2XFD8
8"	5 in	2XFD9
8"	—	3DVY3
10"	—	3DVY4

Pipe Size	Item No.
Gear Operated Handle	
2"	3DVX6
3"	3DVX8
4"	3DVX9
5"	3DVY1
6"	3DVY2

Stainless Steel Pipe & Pipe Nipples, Schedule 40 & 80

- MNPT connection

Type 304 stainless steel resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. Pipe connects with fittings to transport air, water, natural gas, steam, and chemicals to storage tanks and in residential plumbing, and kitchen and food applications. **Type 316 stainless steel** has a higher nickel content than 304 stainless for greater corrosion resistance from caustic chemicals, corrosive fluids, oils, and gases, and withstands pressure and high temperatures. Pipe connects with fittings to transport air, water, natural gas, steam and chemicals in chemical manufacturing, industrial and chemical transportation, and food production and processing.

SCHEDULE 40: Low-pressure (100-299 psi). For air, natural gas, propane, steam, and water applications.

Unthreaded Low Pressure Pipe

Threaded on Both Ends Nipple

Fully Threaded Pipe Nipple

Threaded on One End Pipe Nipple

Item	Nominal Pipe Size	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Schedule 40 Unthreaded Low Pressure Pipe					
Pipe	¼"	10-ft	Seamless	**15A816**	**15A824**
	½"	10-ft	Seamless	**15A818**	**15A825**
	¾"	10-ft	Seamless	**15A819**	**15A826**
	1"	10-ft	Seamless	**15A820**	**15A827**
	2"	10-ft	Seamless	**15A823**	**15A828**
Schedule 40 Fully Threaded Low Pressure Pipe Nipples					
Nipple	⅛"	¾"	Seamless	**1XAL1**	**1WZV4**
	¼"	⅞"	Welded	**1XAN9**	—
	⅜"	1"	Welded	**1XAR8**	**1WZZ2**
	½"	1⅛"	Welded	**1XAU7**	**1XAA9**
	¾"	1⅛"	Welded	**1XAW5**	**1XAC8**
	1"	1½"	Welded	**1XAY4**	**1XAE7**
	1¼"	1⅜"	Welded	**1XBA2**	**1WZP5**
	1½"	1¾"	Welded	**1XBB8**	**1XAG5**
	2"	2"	Welded	**1XBD6**	**1XAJ3**
	2½"	2½"	Welded	**1XBF3**	**1WZR6**
	3"	2⅝"	Welded	**1XBG3**	**1WZT6**
	4"	2⅞"	Welded	—	**1WZU6**

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Schedule 40 Threaded on One End Low Pressure Pipe Nipples				
¼" Nominal Pipe Size				
Nipple	2"	Seamless	**1XBK3**	**1XBV7**
	2½"	Seamless	**1XBL3**	**1XBW6**
	3"	Seamless	**1XBN6**	**1XBX7**
	4"	Seamless	**1XBP9**	**1XBY8**
⅜" Nominal Pipe Size				
Nipple	1½"	Seamless	**1XBJ5**	**1XBV1**
	2½"	Seamless	**1XBL4**	**1XBW7**
	3"	Seamless	**1XBN7**	—
	4"	Seamless	**1XBR1**	**1XBY9**
	6"	Seamless	**1XBT4**	**1XCA1**
½" Nominal Pipe Size				
Nipple	1"	Seamless	**1XBJ1**	**1XBU7**
	1½"	Seamless	**1XBJ6**	**1XBV2**
	2"	Seamless	**1XBK5**	**1XBV9**
	3"	Seamless	**1XBN8**	**1XBX9**
	6"	Seamless	**1XBT5**	**1XCA2**
¾" Nominal Pipe Size				
Nipple	1"	Seamless	**1XBJ2**	**1XBU8**
	1½"	Seamless	—	**1XBV3**
	2½"	Seamless	**1XBL6**	**1XBW9**
	3"	Seamless	**1XBN9**	—
	4"	Seamless	**1XBR3**	**1XBZ2**
	6"	Seamless	**1XBT6**	**1XCA3**
1" Nominal Pipe Size				
Nipple	2"	Seamless	**1XBK7**	—
	3"	Welded	**1XBP1**	—
	6"	Welded	**1XBT7**	**1XCA4**
1¼" Nominal Pipe Size				
Nipple	2"	Seamless	**1XBK8**	**1XBW3**
	2½"	Seamless	**1XBL8**	—
	3"	Seamless	**1XBP2**	—
	6"	Seamless	**1XBT8**	**1XCA5**
1½" Nominal Pipe Size				
Nipple	1½"	Seamless	**1XBK1**	**1XBV6**
	2"	Seamless	**1XBK9**	—
	3"	Seamless	**1XBP3**	**1XBY4**
	4"	Seamless	**1XBR6**	**1XBZ5**
2" Nominal Pipe Size				
Nipple	2"	Seamless	**1XBL1**	**1XBW5**
	2½"	Seamless	**1XBN1**	**1XBX4**
	4"	Seamless	**1XBR7**	**1XBZ6**
	6"	Seamless	**1XBU1**	**1XCA7**
3" Nominal Pipe Size				
Nipple	2½"	Seamless	**1XBN3**	**1XBX5**
	3"	Seamless	**1XBP6**	—
	4"	Seamless	—	**1XBZ7**
		Welded	**1XBR9**	—
	6"	Seamless	—	**1XCA8**
		Welded	**1XBU3**	—
4" Nominal Pipe Size				
Nipple	2½"	Seamless	**1XBN4**	—
	4"	Seamless	—	**1XBZ8**
		Welded	**1XBT1**	—
	6"	Welded	**1XBU4**	—
Schedule 40 Threaded on Both Ends Pipe & Pipe Nipples				
⅛" Nominal Pipe Size				
Nipple	1½"	Seamless	**1XAL2**	**1WZV5**
	2"	Seamless	**1XAL3**	**1WZV6**
	2½"	Seamless	**1XAL4**	**1WZV7**
	3"	Seamless	**1XAL5**	**1WZV8**
	3½"	Seamless	**1XAL6**	**1WZV9**
	4"	Seamless	**1XAL7**	**1WZW1**
	4½"	Seamless	**1XAL8**	**1WZW2**
	5"	Seamless	**1XAL9**	**1WZW3**
	5½"	Seamless	**1XAN1**	**1WZW4**
	6"	Seamless	**1XAN2**	**1WZW5**
	7"	Seamless	**1XAN3**	**1WZW6**
	8"	Seamless	**1XAN4**	**1WZW7**
	9"	Seamless	**1XAN5**	**1WZW8**
	10"	Seamless	—	**1WZW9**
	12"	Seamless	**1XAN8**	**1WZX2**
¼" Nominal Pipe Size				
Nipple	⅞"	Welded	—	**1WZX3**
	1½"	Welded	**1XAP1**	**1WZX4**
	2"	Welded	**1XAP2**	**1WZX5**
	2½"	Welded	**1XAP3**	**1WZX6**
	3"	Welded	**1XAP4**	**1WZX7**
	3½"	Welded	**1XAP5**	**1WZX8**
	4"	Welded	**1XAP6**	**1WZX9**
	4½"	Welded	**1XAP7**	**1WZY1**
	5"	Welded	**1XAP8**	**1WZY2**
	5½"	Seamless	—	**1WZY3**
		Welded	**1XAP9**	—
	6"	Welded	**1XAR1**	**1WZY4**
	7"	Welded	**1XAR2**	**1WZY5**
	8"	Welded	**1XAR3**	**1WZY6**
	9"	Welded	**1XAR4**	**1WZY7**
	10"	Welded	**1XAR5**	**1WZY8**
	11"	Welded	**1XAR6**	**1WZY9**
	12"	Welded	**1XAR7**	**1WZZ1**
⅜" Nominal Pipe Size				
Nipple	1½"	Welded	**1XAR9**	**1WZZ3**
	2"	Welded	**1XAT1**	**1WZZ4**
	2½"	Welded	**1XAT2**	**1WZZ5**
	3"	Welded	**1XAT3**	**1WZZ6**
	3½"	Welded	**1XAT4**	**1WZZ7**
	4"	Welded	**1XAT5**	**1WZZ8**
	4½"	Seamless	**1XAT6**	—
		Welded	—	**1WZZ9**
	5"	Seamless	—	**1XAA1**
		Welded	**1XAT7**	—
	5½"	Welded	**1XAT8**	**1XAA2**
	6"	Welded	**1XAT9**	**1XAA3**
	7"	Welded	**1XAU1**	**1XAA4**
	8"	Welded	**1XAU2**	—
	9"	Welded	—	**1XAA5**
	10"	Welded	**1XAU4**	**1XAA6**
	11"	Welded	**1XAU5**	—
	12"	Welded	**1XAU6**	**1XAA8**
½" Nominal Pipe Size				
Nipple	1½"	Welded	**1XAU8**	**1XAB1**
	2"	Welded	**1XAU9**	**1XAB2**
	2½"	Welded	**1XAV1**	**1XAB3**
	3"	Welded	**1XAV2**	**1XAB4**
	3½"	Welded	**1XAV3**	**1XAB5**
	4"	Welded	**1XAV4**	**1XAB6**
	4½"	Welded	—	**1XAB7**
	5"	Welded	**1XAV5**	**1XAB8**
	5½"	Welded	**1XAV6**	**1XAB9**
	6"	Welded	**1XAV7**	**1XAC1**
	7"	Welded	**1XAV8**	**1XAC2**
	8"	Welded	**1XAV9**	**1XAC3**
	9"	Seamless	—	**1XAC4**
		Welded	**1XAW1**	—
	10"	Welded	**1XAW2**	**1XAC5**
	11"	Welded	**1XAW3**	**1XAC6**
	12"	Welded	**1XAW4**	**1XAC7**
¾" Nominal Pipe Size				
Nipple	1½"	Welded	**1XAW6**	**1XAC9**
	2"	Welded	**1XAW7**	**1XAD1**
	2½"	Welded	**1XAW8**	**1XAD2**
	3"	Welded	**1XAW9**	**1XAD3**
	3½"	Welded	**1XAX1**	**1XAD4**
	4"	Welded	**1XAX2**	**1XAD5**
	4½"	Welded	**1XAX3**	**1XAD6**
	5"	Welded	**1XAX4**	**1XAD7**
	5½"	Welded	**1XAX5**	**1XAD8**
	6"	Welded	**1XAX6**	**1XAD9**
	7"	Welded	**1XAX7**	**1XAE1**
	8"	Welded	**1XAX8**	**1XAE2**
	9"	Welded	**1XAX9**	**1XAE3**
	10"	Welded	**1XAY1**	**1XAE4**
	11"	Welded	**1XAY2**	**1XAE5**
	12"	Welded	**1XAY3**	**1XAE6**
1" Nominal Pipe Size				
Nipple	2"	Welded	**1XAY6**	**1XAE9**
	2½"	Welded	**1XAY7**	**1XAF1**
	3"	Welded	**1XAY8**	**1XAF2**
	3½"	Welded	**1XAY9**	**1XAF3**
	4"	Welded	**1XAZ1**	**1XAF4**
	4½"	Welded	**1XAZ2**	**1XAF5**
	5"	Welded	**1XAZ3**	**1XAF6**
	5½"	Welded	**1XAZ4**	**1XAF7**
	6"	Welded	**1XAZ5**	**1XAF8**
	7"	Welded	**1XAY5**	**1XAE8**
	8"	Welded	**1XAZ6**	—
	9"	Welded	**1XAZ7**	**1XAG1**
	10"	Welded	**1XAZ8**	**1XAG2**
	11"	Welded	**1XAZ9**	—
	12"	Welded	**1XBA1**	**1XAG4**
1¼" Nominal Pipe Size				
Nipple	2"	Welded	**1XBA3**	—
	2½"	Welded	**1XBA4**	**1WZP6**
	3"	Welded	**1XBA5**	**1WZP7**
	3½"	Welded	**1XBA6**	**1WZP8**
	4"	Welded	**1XBA7**	**1WZP9**
	4½"	Welded	**1XBA8**	—
	5"	Welded	**1XBA9**	**1WZR1**
	5½"	Seamless	**1XBB1**	—
	6"	Welded	**1XBB2**	**1WZR2**
	7"	Welded	**1XBB3**	—
	8"	Welded	**1XBB4**	**1WZR3**
	9"	Seamless	**1XBB5**	—
	10"	Welded	**1XBB6**	—
	12"	Welded	**1XBB7**	**1WZR5**
1½" Nominal Pipe Size				
Nipple	2"	Welded	**1XBB9**	**1XAG6**
	2½"	Welded	**1XBC1**	**1XAG7**
	3"	Welded	**1XBC2**	**1XAG8**
	3½"	Welded	**1XBC3**	**1XAG9**
	4"	Welded	**1XBC4**	**1XAH1**
	4½"	Seamless	**1XBC5**	—
		Welded	—	**1XAH2**
	5"	Welded	**1XBC6**	**1XAH3**
	5½"	Welded	**1XBC7**	**1XAH4**
	6"	Welded	**1XBC8**	**1XAH5**
	7"	Welded	**1XBC9**	—
	8"	Welded	**1XBD1**	**1XAH7**
	9"	Welded	**1XBD2**	—
	10"	Welded	**1XBD3**	**1XAH9**
	11"	Welded	—	**1XAJ1**
	12"	Welded	**1XBD5**	**1XAJ2**
2" Nominal Pipe Size				
Nipple	2½"	Welded	**1XBD7**	**1XAJ4**
	3"	Welded	**1XBD8**	**1XAJ5**
	3½"	Welded	**1XBD9**	**1XAJ6**
	4"	Welded	**1XBE1**	**1XAJ7**
	4½"	Welded	**1XBE2**	**1XAJ8**
	5"	Welded	**1XBE3**	**1XAJ9**
	5½"	Welded	**1XBE4**	**1XAK1**
	6"	Welded	**1XBE5**	**1XAK2**
	7"	Welded	**1XBE6**	—
	8"	Welded	**1XBE7**	**1XAK4**
	9"	Welded	**1XBE8**	—
	10"	Welded	**1XBE9**	**1XAK6**
	11"	Welded	**1XBF1**	**1XAK7**
	12"	Welded	**1XBF2**	**1XAK8**
2½" Nominal Pipe Size				
Nipple	3"	Welded	—	**1WZR7**
	3½"	Welded	**1XBF4**	**1WZR8**
	4"	Welded	**1XBF5**	**1WZR9**
	5"	Seamless	**1XBF6**	—
	6"	Welded	**1XBF7**	**1WZT2**
	12"	Welded	**1XBG2**	—

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Stainless Steel Pipe & Pipe Nipples, Schedule 40 & 80

SCHEDULE 40: Low-pressure (100-299 psi). For air, natural gas, propane, steam, and water applications.

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
3" Nominal Pipe Size				
Nipple	3"	Welded	1XBG4	1WZT7
	3½"	Welded	1XBG5	1WZT8
	4"	Welded	—	1WZT9
	4½"	Welded	1XBG6	—
	5"	Welded	1XBG7	1WZU1
	6"	Welded	—	1WZU2
	8"	Welded	1XBG8	—
	12"	Welded	1XBH1	—
4" Nominal Pipe Size				
Nipple	4"	Welded	—	1WZU7
	5"	Welded	1XBH3	1WZU8
	5½"	Welded	1XBH4	—
	6"	Welded	—	1WZU9
⅛" Nominal Pipe Size				
Pipe	18"	Seamless	4TMR1	4TND4
	2-ft	Seamless	4TMT4	4TNE7
	3-ft	Seamless	4TMU7	4TNG1
	4-ft	Seamless	4TMW1	4TNH4
	5-ft	Seamless	4TMX4	—

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
¼" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC2	4TNN5
⅜" Nominal Pipe Size				
Pipe	10-ft	Seamless	—	4TNN6
½" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC4	4TNN7
¾" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC5	4TNN8
1" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC6	4TNN9
1¼" Nominal Pipe Size				
Pipe	18"	Seamless	4TMR7	4TNE1
	2-ft	Seamless	4TMU1	4TNF4
	3-ft	Seamless	4TMV4	4TNG7
	4-ft	Seamless	4TMW7	4TNJ1
	10-ft	Seamless	—	4TNP1
1½" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC8	4TNP2

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
2" Nominal Pipe Size				
Pipe	10-ft	Seamless	4TNC9	4TNP3
2½" Nominal Pipe Size				
Pipe	18"	Seamless	4TMT1	4TNE4
	2-ft	Seamless	4TMU4	4TNF7
	3-ft	Seamless	4TMV7	4TNH1
	5-ft	Seamless	4TMY4	4TNK7
3" Nominal Pipe Size				
Pipe	2-ft	Seamless	4TMU5	4TNF8
	3-ft	Seamless	4TMV8	—
	4-ft	Seamless	—	4TNJ5
	6-ft	Seamless	4TMZ8	—
	10-ft	Seamless	4TND2	—
4" Nominal Pipe Size				
Pipe	2-ft	Seamless	4TMU6	4TNF9
	6-ft	Seamless	4TMZ9	4TNN3
	10-ft	Seamless	4TND3	4TNP6

SCHEDULE 80: Medium-pressure (300-299 psi). For air, natural gas, propane, steam, and water applications.

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Schedule 80 Fully Threaded Medium Pressure Pipe Nipples				
⅛" Nominal Pipe Size				
Nipple	¾"	Seamless	4TNP7	4TPN2
¼" Nominal Pipe Size				
Nipple	⅞"	Seamless	4TNP8	4TPN3
⅜" Nominal Pipe Size				
Nipple	1"	Seamless	4TNP9	4TPN4
½" Nominal Pipe Size				
Nipple	1⅛"	Seamless	4TNR1	4TPN5
¾" Nominal Pipe Size				
Nipple	1⅛"	Seamless	4TNR2	4TPN6
1" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNR3	4TPN7
1¼" Nominal Pipe Size				
Nipple	1⅜"	Seamless	4TNR4	4TPN8
1½" Nominal Pipe Size				
Nipple	1¾"	Seamless	4TNR5	4TPN9
2" Nominal Pipe Size				
Nipple	2"	Seamless	4TNR6	4TPP1
Schedule 80 Threaded on Both Ends Pipe & Pipe Nipples				
⅛" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNR7	4TPP2
	2"	Seamless	4TNT3	4TPP7
	2½"	Seamless	4TNU2	4TPR6
	3"	Seamless	4TNV2	4TPT6
	3½"	Seamless	4TNW2	4TPU6
	4"	Seamless	4TNX2	4TPV6
	5"	Seamless	4TNY2	4WJW9
	6"	Seamless	4TNZ2	4WJX9
	8"	Seamless	4TPA2	4WJY9
	10"	Seamless	4TPC2	4WJZ9
	12"	Seamless	—	4WKA9
¼" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNR8	4TPP3
	2"	Seamless	4TNT4	4TPP8
	2½"	Seamless	4TNU3	4TPR7
	3"	Seamless	4TNV3	4TPT7
	3½"	Seamless	4TNW3	4TPU7
	4"	Seamless	4TNX3	4TPV7
	5"	Seamless	4TNY3	4WJX1
	6"	Seamless	4TNZ3	4WJY1
	8"	Seamless	4TPA3	4WJZ1
	10"	Seamless	—	4WKA1
	12"	Seamless	4TPD3	4WKC1
⅜" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNR9	4TPP4
	2"	Seamless	4TNT5	4TPP9
	2½"	Seamless	4TNU4	4TPR8
	3"	Seamless	4TNV4	4TPT8
	3½"	Seamless	4TNW4	4TPU8
	4"	Seamless	4TNX4	4TPV8
	5"	Seamless	4TNY4	4WJX2
	6"	Seamless	4TNZ4	4WJY2
	8"	Seamless	4TPA4	4WJZ2
	10"	Seamless	4TPC4	4WKA2
	12"	Seamless	4TPD4	4WKC2

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
½" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNT1	4TPP5
	2"	Seamless	4TNT6	4TPR1
	2½"	Seamless	4TNU5	4TPR9
	3"	Seamless	4TNV5	4TPT9
	3½"	Seamless	4TNW5	4TPU9
	4"	Seamless	4TNX5	4TPV9
	5"	Seamless	4TNY5	4WJX3
	6"	Seamless	4TNZ5	4WJY3
	8"	Seamless	4TPA5	4WJZ3
	10"	Seamless	—	4WKA3
	12"	Seamless	4TPD5	4WKC3
¾" Nominal Pipe Size				
Nipple	1½"	Seamless	4TNT2	4TPP6
	2"	Seamless	4TNT7	4TPR2
	2½"	Seamless	4TNU6	4TPT1
	3"	Seamless	4TNV6	4TPU1
	3½"	Seamless	4TNW6	—
	3½"	Welded	—	4TPV1
	4"	Seamless	4TNX6	4WJW4
	5"	Seamless	4TNY6	4WJX4
	6"	Seamless	4TNZ6	4WJY4
	8"	Seamless	4TPA6	4WJZ4
	10"	Seamless	4TPC6	—
	12"	Seamless	4TPD6	4WKC4
1" Nominal Pipe Size				
Nipple	2"	Seamless	4TNT8	4TPR3
	2½"	Seamless	4TNU7	4TPT2
	3"	Seamless	4TNV7	4TPU2
	3½"	Seamless	4TNW7	4TPV2
	4"	Seamless	4TNX7	4WJW5
	5"	Seamless	4TNY7	4WJX5
	6"	Seamless	4TNZ7	4WJY5
	8"	Seamless	4TPA7	4WJZ5
	10"	Seamless	4TPC7	4WKA5
	12"	Seamless	4TPD7	—
1¼" Nominal Pipe Size				
Nipple	2"	Seamless	4TNT9	4TPR4
	2½"	Seamless	4TNU8	4TPT3
	3"	Seamless	4TNV8	4TPU3
	3½"	Seamless	4TNW8	4TPV3
	4"	Seamless	4TNX8	4WJW6
	5"	Seamless	4TNY8	4WJX6
	6"	Seamless	4TNZ8	4WJY6
	8"	Seamless	4TPA8	4WJZ6
	10"	Seamless	4TPC8	4WKA6
	12"	Seamless	4TPD8	4WKC6
1½" Nominal Pipe Size				
Nipple	2"	Seamless	4TNU1	4TPR5
	2½"	Seamless	4TNU9	4TPT4
	3"	Seamless	4TNV9	4TPU4
	3½"	Seamless	4TNW9	4TPV4
	4"	Seamless	4TNX9	4WJW7
	5"	Seamless	—	4WJX7
	6"	Seamless	4TNZ9	—
	6"	Welded	—	4WJY7
	8"	Seamless	4TPA9	—
	10"	Seamless	4TPC9	—
	12"	Seamless	4TPD9	—

Item	Overall Length	Metal Pipe Const.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
2" Nominal Pipe Size				
Nipple	2½"	Seamless	4TNV1	4TPT5
	3"	Seamless	4TNW1	4TPU5
	3½"	Seamless	4TNX1	4TPV5
	4"	Seamless	4TNY1	4WJW8
	5"	Seamless	4TNZ1	4WJX8
	6"	Seamless	4TPA1	4WJY8
	8"	Seamless	—	4WJZ8
	10"	Seamless	4TPD1	—
	12"	Seamless	4TPE1	4WKC8
⅛" Nominal Pipe Size				
Pipe	18"	Seamless	4TPE2	4WKC9
	2-ft	Seamless	4TPF2	4WKD9
¼" Nominal Pipe Size				
Pipe	5-ft	Seamless	4TPJ3	4WKH1
	6-ft	Seamless	4TPK3	4WKJ1
	10-ft	Seamless	4TPL3	4WKK1
⅜" Nominal Pipe Size				
Pipe	2-ft	Seamless	4TPF4	4WKE2
	4-ft	Seamless	4TPH4	4WKG2
	5-ft	Seamless	—	4WKH2
	6-ft	Seamless	4TPK4	4WKJ2
½" Nominal Pipe Size				
Pipe	2-ft	Seamless	4TPF5	4WKE3
	3-ft	Seamless	4TPG5	—
	4-ft	Seamless	4TPH5	—
	5-ft	Seamless	4TPJ5	—
	6-ft	Seamless	4TPK5	4WKJ3
	10-ft	Seamless	4TPL5	—
¾" Nominal Pipe Size				
Pipe	18"	Seamless	4TPE6	4WKD4
	2-ft	Seamless	4TPF6	4WKE4
	3-ft	Seamless	4TPG6	—
	5-ft	Seamless	4TPJ6	—
	10-ft	Seamless	4TPL6	—
1" Nominal Pipe Size				
Pipe	2-ft	Seamless	4TPF7	4WKE5
	3-ft	Seamless	4TPG7	—
	4-ft	Seamless	—	4WKG5
	5-ft	Seamless	4TPJ7	—
	10-ft	Seamless	—	4WKK5
1¼" Nominal Pipe Size				
Pipe	6-ft	Seamless	4TPK8	4WKJ6
	10-ft	Seamless	4TPL8	4WKK6
1½" Nominal Pipe Size				
Pipe	2-ft	Seamless	—	4WKE7
	3-ft	Seamless	4TPG9	4WKF7
	4-ft	Seamless	4TPH9	—
	5-ft	Seamless	—	4WKH7
	6-ft	Seamless	4TPK9	4WKJ7
	10-ft	Seamless	4TPL9	4WKK7
2" Nominal Pipe Size				
Pipe	18"	Seamless	4TPF1	4WKD8
	2-ft	Welded	—	4WKE8
	3-ft	Seamless	4TPH1	—
	4-ft	Seamless	4TPJ1	4WKG8
	5-ft	Seamless	4TPK1	4WKH8
	6-ft	Welded	4TPL1	—

SCHEDULE 80 Instrumentation: High-pressure (1000-3000 psi). For air, natural gas, propane, steam, and water applications.

Item	Overall Length	Metal Pipe Const.	316 Stainless Steel Item No.
Schedule 80 Instrumentation Fully Threaded High Pressure Pipe Nipples			
¼" Nominal Pipe Size			
Nipple	1⅛"	Seamless	1DFX2
⅜" Nominal Pipe Size			
Nipple	1⅛"	Seamless	1DFX3

Item	Overall Length	Metal Pipe Const.	316 Stainless Steel Item No.
½" Nominal Pipe Size			
Nipple	1½"	Seamless	1DFX4
¾" Nominal Pipe Size			
Nipple	¾"	Seamless	14M043

Threaded Stainless Steel Pipe Fittings, Class 150, 3000 & Extreme Pressure

Parker

- Class 150 max. pressure: 300 psi

Fittings resist corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstand pressure and high temperatures in plumbing applications and food and dairy processing. Threaded pipe fittings are threaded on both connection ends and use PTFE tape to keep seal tight. **Type 304 stainless steel** resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. **Type 316 stainless steel** has a higher nickel content than 304 stainless for even greater corrosion resistance. **Extreme pressure instrumentation** fittings are precision machined and threaded on both connection ends for leak-free connections between fittings, instrumentation, and pipe.

CLASS 150: Medium-pressure (300-999 psi). For air, natural gas, non-potable water, oil, potable water, and steam applications.

Class 150 Medium Pressure Pipe Fittings

45° Elbow, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTB2	2TV77
¼"	1LTB3	6JM03
⅜"	1LTB4	2TV78
½"	1LTB5	6JM32
¾"	1LTB6	6JM64
1"	1LTB7	6JK45
1¼"	1LTB8	2TV79
1½"	1LTB9	6JK21
2"	1LTC1	6JL10
3"	1LTC3	—
4"	1LTC4	—

90° Elbow, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LRZ8	2TV71
¼"	1LRZ9	6JM01
⅜"	1LTA1	2TV72
½"	1LTA2	6JM30
¾"	1LTA3	6JM62
1"	1LTA4	6JK43
1¼"	1LTA5	2TV73
1½"	1LTA6	6JK19
2"	1LTA7	6JL08
2½"	1LTA8	2TV74
3"	1LTA9	2TV75
4"	1LTB1	—

90° Street Elbow, MNPT x FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTV3	2TY12
¼"	1LTV4	6JM13
⅜"	1LTV5	2TY13
½"	1LTV6	6JM42
¾"	1LTV7	6JM74
1"	1LTV8	6JK55
1¼"	1LTV9	2TY14
1½"	1LTW1	6JK31
2"	1LTW2	6JL20
2½"	—	2TY15
3"	1LTW4	—
4"	1LTW5	—

Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LRY5	2TV65
¼"	1LRY6	6JL98
⅜"	1LRY7	2TV66
½"	1LRY8	6JM28
¾"	1LRY9	6JM60
1"	1LRZ1	6JK09
1¼"	1LRZ2	2TV67
1½"	1LRZ3	6JK17
2"	1LRZ4	6JK73
2½"	1LRZ5	—
3"	1LRZ6	2TV69
4"	1LRZ7	2TV70

Cross, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	—	1LVD6
¼"	1LUB8	1LVD8
½"	1LUC3	1LVE3
¾"	1LUC5	1LVE5
1"	1LUC7	1LVE7
1¼"	1LUC9	1LVE9
2"	1LUD4	1LVF4
2½"	1LUD6	1LVF6
3"	1LUD8	1LVF8
4"	1LUE1	1LVG1

Half Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTJ1	—
¼"	1LTJ2	—
⅜"	1LTJ3	—
½"	1LTJ4	—
¾"	1LTJ5	6JM68
1"	1LTJ6	—
1¼"	1LTJ7	2TV89
1½"	1LTJ8	6JK25
2"	1LTJ9	—
2½"	—	2TV90
3"	1LTK2	—

Hex Head Plug, MNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTK4	2TV93
¼"	1LTK5	6JM09
⅜"	1LTK6	2TV94
½"	1LTK7	6JM38
¾"	1LTK8	6JM70
1"	1LTK9	6JK51
1¼"	1LTN1	—
1½"	1LTN2	6JK27
2"	1LTN3	6JL16

Hex Reducing Bushing, MNPT x FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
¼" x ⅛"	1LTC5	6JM05
⅜" x ⅛"	1LTC6	2TV81
⅜" x ¼"	1LTC7	2TV82
½" x ⅛"	1LTC8	1LUL9
½" x ¼"	1LTC9	1LUN2
½" x ⅜"	1LTE1	6JM34
¾" x ⅛"	1LTE2	1LUN4
¾" x ¼"	1LTE3	1LUN6
¾" x ⅜"	1LTE4	1LUN8
¾" x ½"	1LTE5	6JM66
1" x ⅛"	1LTE6	—
1" x ¼"	1LTE7	1LUP1
1" x ⅜"	1LTE8	1LUP4
1" x ½"	1LTE9	1LUP6
1" x ¾"	1LTF1	6JK47
1¼" x ¼"	1LTF2	1LUP8
1¼" x ½"	1LTF4	2TV83
1¼" x ¾"	1LTF5	2TV84
1¼" x 1"	1LTF6	2TV85
1½" x ¼"	1LTF7	1LUR1
1½" x ⅜"	1LTF8	—
1½" x ½"	1LTF9	1LUR3
1½" x ¾"	1LTG1	1LUR5
1½" x 1"	1LTG2	1LUR7
1½" x 1¼"	1LTG3	6JK23
2" x ¼"	1LTG4	1LUR9
2" x ⅜"	1LTG5	1LUT2
2" x ½"	1LTG6	1LUT4
2" x ¾"	1LTG7	1LUT6
2" x 1"	1LTG8	2TV86
2" x 1¼"	1LTG9	1LUT8
2" x 1½"	1LTH1	6JL12
2½" x 1½"	1LTH2	1LUV1
2½" x 2"	1LTH3	2TV87
3" x 1"	1LTH4	1LUV3
3" x 1½"	1LTH5	—
3" x 2"	1LTH6	2TV88
3" x 2½"	1LTH7	1LUV7
3" x 3"	—	1LUV5
4" x 2"	1LTH8	1LUV9
4" x 3"	1LTH9	—

Hex Socket Plug, MNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
1⁄16"	4WPK1	—
⅛"	4WPK2	4WPL2
¼"	4WPK3	4WPL3
⅜"	4WPK4	4WPL4
½"	4WPK5	4WPL5
¾"	4WPK6	4WPL6
1"	4WPK7	—
1¼"	4WPK8	4WPL8

Locknut, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
½"	—	1LVG9
1½"	1LUL5	1LVH8

Reducing Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
¼" x ⅛"	1LTN7	6JM11
⅜" x ⅛"	1LTN8	—
⅜" x ¼"	1LTN9	2TV97
½" x ½"	—	1LUW6
½" x ¼"	1LTP2	1LUW8
½" x ⅜"	1LTP3	6JM40
¾" x ¼"	1LTP5	1LUY3
¾" x ⅜"	1LTP6	1LUY5
¾" x ½"	1LTP7	6JM72
1" x ⅛"	1LTP8	1LUY7
1" x ¼"	1LTP9	1LUY9
1" x ⅜"	1LTR1	1LUZ2
1" x ½"	1LTR2	1LUZ4
1" x ¾"	1LTR3	6JK53
1¼" x ⅜"	1LTR6	1LUZ8
1¼" x ½"	1LTR7	2TV98
1¼" x ¾"	1LTR8	2TV99
1¼" x 1"	1LTR9	2TY10
1½" x ⅛"	1LTT1	1LVA1
1½" x ¼"	1LTT2	1LVA3
1½" x ⅜"	1LTT3	1LVA5
1½" x ½"	1LTT4	1LVA7
1½" x ¾"	1LTT5	1LVA9
1½" x 1"	1LTT6	1LVB2
1½" x 1¼"	1LTT7	6JK29
2" x ⅜"	1LTT8	1LVB4
2" x ½"	1LTT9	1LVB6
2" x ¾"	1LTU1	1LVB8
2" x 1"	1LTU2	1LVC1
2" x 1¼"	1LTU3	1LVC3
2" x 1½"	1LTU4	6JL18
2½" x 1½"	1LTU5	—
2½" x 2"	1LTU6	2TY11
3" x 1"	—	1LVC5
3" x 2"	1LTU8	1LVC7
3" x 2½"	1LTU9	1LVC9
4" x 2"	—	1LVD2
4"	1LTV2	—

Round Cap, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LRX2	—
¼"	1LRX3	6JL96
⅜"	—	2TV60
½"	1LRX5	6JM26
¾"	1LRX6	6JM58
1"	1LRX7	6JK07
1¼"	1LRX8	2TV61
1½"	1LRX9	6JK15
2"	1LRY1	6JK71
2½"	—	2TV62
3"	1LRY3	2TV63
4"	—	2TV64

Square Head Plug, MNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTW6	2TY16
¼"	1LTW7	6JM15
⅜"	1LTW8	2TY17
½"	1LTW9	6JM46
¾"	1LTX2	6JM78
1"	1LTX4	6JK59
1¼"	1LTX6	2TY18
1½"	1LTX8	6JK35
2"	1LTY3	6JL24
2½"	1LTY1	2TY19
3"	1LTY5	—

Tee, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LTY9	2TY20
¼"	1LTZ2	6JM17
⅜"	1LTZ4	2TY21
½"	1LTZ6	6JM48
¾"	1LTZ8	6JM80
1"	1LUA1	6JK61
1¼"	1LUA3	2TY22
1½"	1LUA5	6JK37
2"	1LUA7	6JL26
2½"	1LUA9	—
3"	1LUB2	—

Union, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LUE3	2TY24
¼"	1LUE5	6JM19
⅜"	1LUE7	2TY25
½"	1LUE9	6JM52
¾"	1LUF2	6JM84
1"	1LUF4	6JK65
1¼"	1LUF6	2TY26
1½"	1LUF8	6JK41
2"	1LUH1	6JL30
2½"	1LUH3	—
3"	1LUH5	—
4"	1LUH7	—

CLASS 3000: High pressure (1000-3000 psi). For air, water, and natural gas applications.

Class 3000 High Pressure Pipe Fittings

45° Elbow, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA60	2TY92
¼"	2UA61	2TY93
⅜"	2UA62	2TY94
½"	—	20XZ41
½"	—	2TY95
¾"	2UA64	—
¾"	20XY92	2TY96
1"	2UA65	—
2"	20XY95	20XZ45

90° Elbow, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA54	2TY86
¼"	2UA55	2TY87
⅜"	2UA56	2TY88
½"	2UA57	2TY89
½"	20XY71	20XZ26
¾"	2UA58	2TY90
¾"	20XY72	20XZ27
1"	2UA59	2TY91
1"	20XY73	20XZ28
1½"	20XY74	20XZ29
2"	20XY75	—

90° Street Elbow, MNPT x FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA66	2TY98
¼"	2UA67	2TY99
⅜"	2UA68	2UA10
½"	2UA69	2UA11
¾"	2UA70	2UA12
1"	2UA71	2UA13

Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA48	2TY80
¼"	2UA49	2TY81
⅜"	2UA50	2TY82
½"	2UA51	2TY83
½"	20XZ02	—
¾"	2UA52	—
¾"	20XZ03	—
1"	2UA53	2TY85
1"	20XZ04	—
1¼"	1LVN4	—
1½"	1LVN6	1RTD7
1½"	20XZ05	20XZ54
2"	20XZ06	—
2"	1LVN8	1RTD9
2½"	1LVP1	1RTE2
3"	1LVP3	1RTE4

Cross, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1LVJ3	1RRZ4
¼"	1LVJ5	—
⅜"	1LVJ7	1RRZ8
½"	—	1RTA1
¾"	1LVK2	1RTA3
1"	1LVK4	1RTA5
1¼"	1LVK6	1RTA7
1½"	1LVK8	1RTA9
2"	1LVL1	1RTB2

Half Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA72	2UA14
¼"	2UA73	2UA15
⅜"	2UA74	2UA16
½"	2UA75	2UA17
1"	2UA77	2UA19

CONTINUED

CONTINUED

Threaded Stainless Steel Pipe Fittings, Class 150, 3000 & Extreme Pressure

Parker

CLASS 3000: High pressure (1000-3000 psi). For air, water, and natural gas applications.

Half Coupling, Socket Weld

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
1¼"	1LVP5	1RTE6
1½"	1LVP7	1RTE8
2½"	1LVR2	1RTF3
3"	1LVR5	1RTF5

Hex Head Plug, MNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1RRG4	1RTF7
¼"	1RRG6	1RTF9
⅜"	1RRG8	1RTH2
½"	1RRH1	1RTH4
¾"	1RRH3	1RTH6
1"	1RRH5	1RTH8
1¼"	1RRH7	1RTJ1
1½"	1RRH9	1RTJ3
2"	1RRJ2	1RTJ5
2½"	1RRJ4	1RTJ7
3"	1RRJ6	1RTJ9
4"	1RRJ8	1RTK2

Hex Reducing Bushing, MNPT x FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
¼" x ⅛"	1RRN7	1RTP1
⅜" x ⅛"	1RRN9	1RTP3
⅜" x ¼"	1RRP2	1RTP5
½" x ⅛"	1RRP4	1RTP8
½" x ¼"	1RRP6	1RTR1
½" x ⅜"	1RRP8	1RTR3
¾" x ⅛"	1RRR1	1RTR5
¾" x ¼"	1RRR3	1RTR7
¾" x ⅜"	1RRR5	1RTR9
¾" x ½"	1RRR7	1RTT2
1" x ⅛"	1RRR9	1RTT4
1" x ¼"	1RRT2	—
1" x ⅜"	1RRT4	1RTT8
1" x ½"	—	1RTU1
1" x ¾"	1RRT8	1RTU3
1¼" x ½"	—	1RTU5
1¼" x ¾"	1RRU3	1RTU7
1¼" x 1"	1RRU1	1RTU9
1¼" x 1"	1RRU5	—
1½" x ¾"	1RRU7	1RTW2
1½" x 1"	1RRU9	1RTW4
1½" x 1¼"	1RRV2	1LTX1
2" x ¾"	1RRV4	1LTX3
2" x 1"	1RRV6	1LTX5
2" x 1¼"	1RRV8	1LTX7
2" x 1½"	1RRW1	1LTX9
2½" x 1"	1RRW3	1LTY2
2½" x 1¼"	1RRW5	1LTY4
2½" x 1½"	1RRW7	1LTY6
3" x 1"	1RRW9	1LTY8
3" x 1¼"	1RRX2	1LTZ1
3" x 1½"	1RRX4	1LTZ3
3" x 2"	1RRX6	1LTZ5
3" x 2½"	1RRX8	1LTZ7
4" x 1"	1RRY1	1LTZ9
4" x 1½"	1RRY5	1LUA4
4" x 2"	1RRY7	1LUA6
4" x 2½"	1RRY9	1LUA8
4" x 3"	1RRZ2	1LUB1

Outlet, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
¼" x ⅜"	4HWE4	4HWF3
⅜" x ½"	4HWE5	4HWF4
½"	20XZ14	20XZ61
½" x ¾"	4HWE6	4HWF5
¾"	20XZ15	20XZ62
¾" x 1"	4HWE7	4HWF6
1"	20XZ16	20XZ63
1" x 2"	4HWE8	4HWF7
1¼" x 3½"	4HWE9	4HWF8
1½" x 5"	4HWF1	4HWF9
2"	—	20XZ66
2" x 8"	4HWF2	4HWG1

Reducing Coupling, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
¼" x ⅛"	2UA78	2UA20
⅜" x ⅛"	2UA79	2UA21
⅜" x ¼"	2UA80	—
½" x ¼"	2UA81	2UA23
½" x ⅜"	2UA82	—
¾" x ¼"	2UA83	—
¾" x ⅜"	2UA84	2UA26
¾" x ½"	2UA85	2UA27
1" x ½"	—	2UA28
1" x ¾"	2UA87	2UA29

Round Cap, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA42	2TY74
¼"	2UA43	2TY75
⅜"	2UA44	2TY76
½"	2UA45	2TY77
¾"	2UA46	2TY78
1"	2UA47	2TY79
1¼"	1LVL3	1RTB4
1½"	—	1RTB6
2"	1LVL7	1RTB8
2½"	1LVL9	1RTD1
3"	1LVN2	1RTD3

Square Head Plug, MNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	1RRK1	1RTK4
¼"	1RRK3	1RTK6
⅜"	1RRK5	1RTK8
½"	1RRK7	1RTL1
¾"	1RRK9	1RTL3
1"	1RRL2	1RTL5
1¼"	1RRL4	1RTL7
1½"	1RRL6	1RTL9
2"	1RRL8	—
2½"	1RRN1	1RTN4
4"	1RRN5	—

Tee, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA88	2UA30
¼"	2UA89	2UA31
⅜"	2UA90	2UA32
½"	2UA91	2UA33
½"	20XY81	—
¾"	2UA92	2UA34
¾"	—	20YC07
1"	2UA93	2UA35
1"	20XY83	20YC08
1½"	20XY84	20YC09
2"	20XY85	20YC10

Union, FNPT

Fitting Pipe Size	304 SS Item No.	316 SS Item No.
⅛"	2UA94	2UA36
¼"	2UA95	2UA37
⅜"	2UA96	2UA38
½"	2UA97	2UA39
¾"	2UA98	2UA40
1"	2UA99	2UA41

Extreme Pressure Instrumentation: (3001+ psi). For air, natural gas, and oil applications.

Extreme Pressure Instrumentation Pipe Fittings

45° Street Elbow, FNPT x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNJ1
¼"	5,600	Parker	5UNJ2
⅜"	5,000	Parker	5UNJ3

90° Elbow, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNH2
¼"	5,600	Parker	1DGH1
⅜"	5,000	Parker	1DGH2
½"	4,500	Parker	1DGH3
¾"	3,500	Parker	14M057

90° Elbow, MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	9,100	Parker	5UNH6
¼"	7,500	Parker	1DGG1
⅜"	7,200	Parker	1DGG2
½"	5,800	Parker	1DGG3

90° Street Elbow, MNPT x FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNJ0
¼"	5,600	Parker	1DGJ2
⅜"	5,000	Parker	1DGJ3
½"	4,500	Parker	1DGJ4
¾"	3,500	Parker	14M058

Adapter, F BSPP x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	6,100	—	60VH74
¼"	5,700	—	60VH67
⅜"	5,700	—	60VH87
½"	3,900	—	60VH60
¾"	4,600	—	60VH80

Adapter, F BSPT x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	6,500	—	60VH75
¼"	6,600	—	60VH68
⅜"	5,300	—	60VH88
½"	4,900	—	60VH61
¾"	4,600	—	60VH81
1"	4,400	—	60VH54

Adapter, FNPT x Male BSPP

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	6,500	—	60VH76
¼"	6,600	—	60VH69
⅜"	5,300	—	60VH89
½"	4,900	—	60VH62
¾"	4,600	—	60VH82
1"	4,400	—	60VH55

Adapter, FNPT x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼"	6,600	—	60VH71
⅜"	5,300	—	60VH91
½"	4,900	—	60VH64
¾"	4,600	—	60VH84
1"	4,400	—	60VH57

Branch Tee, FNPT x FNPT x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNH4
¼"	5,600	Parker	1DGN3
⅜"	5,000	Parker	1DGN4
½"	4,500	Parker	1DGN5

Branch Tee, MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼"	8,000	Parker	1DGP3
⅜"	7,600	Parker	1DGP4
½"	6,200	Parker	1DGP5

Cross, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼"	5,600	Parker	5UNG9
⅜"	5,000	Parker	5UNH0
½"	4,500	Parker	5UNH1

Hex Coupling, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	6,400	Parker	5UNH3
¼"	6,600	Parker	1DGB8
⅜" x ¼"	5,300	Parker	1DGB9
⅜"	5,300	Parker	1DGC1
½"	5,200	Parker	1DGC4
¾" x ½"	4,300	Parker	14M052
¾"	4,300	Parker	14M053

Hex Head Cap, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	6,400	Parker	1DGP9
¼"	6,600	Parker	1DGR1
⅜"	5,300	Parker	1DGR2
½"	5,200	Parker	1DGR3

Hex Head Plug, MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	9,100	Parker	1DGR8
⅛"	9,100	Parker	1DGU2
¼"	7,500	Parker	1DGR9
¼"	7,500	Parker	1DGU3
⅜"	7,200	Parker	1DGT1
⅜"	7,200	Parker	1DGU4
½"	6,600	Parker	1DGT2
¾"	6,400	Parker	14M061

Hex Long Nipple, MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	9,100	Parker	5UNH7
¼" x ⅛"	7,500	Parker	1DFZ7
¼"	7,500	Parker	1DFV7 †
¼"	7,500	Parker	1DFV6 *
¼"	7,500	Parker	1DFZ8 #
¼"	7,500	Parker	1DFV8 ‡
⅜" x ¼"	7,200	Parker	1DFZ9
⅜"	7,200	Parker	1DFV9 *
⅜"	7,200	Parker	1DFW1 †
⅜"	7,200	Parker	1DFW2 ‡
⅜"	7,200	Parker	1DGA1 #
½" x ¼"	6,600	Parker	1DGA2
½" x ⅜"	6,600	Parker	1DGA3
½"	6,600	Parker	1DGA4 **
½"	6,600	Parker	1DFW4 ‡
½"	6,600	Parker	1DFW3 *
¾" x ¼"	6,400	Parker	14M048
¾" x ½"	6,400	Parker	14M049
¾"	6,400	Parker	14M062 ‡
¾"	6,400	Parker	14M050 *

Reducing Adapter, FNPT x MNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛" x ⅛"	6,400	Parker	5UNG7
¼" x ⅛"	6,600	Parker	1DFX8
⅜" x ⅛"	5,300	Parker	1DFX9
⅜" x ¼"	5,300	Parker	1DFY1
½" x ⅛"	5,200	Parker	1DFY2
½" x ¼"	5,200	Parker	1DFY3
½" x ⅜"	5,200	Parker	1DFY4
¾" x ¼"	4,300	Parker	14M044
¾" x ⅜"	4,300	Parker	14M045
¾" x ½"	4,300	Parker	14M046
¾" x ¾"	4,300	Parker	14M047

Reducing Bushing, MNPT x FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼" x ⅛"	6,000	Parker	1DGE1
⅜" x ⅛"	6,400	Parker	1DGE2
⅜" x ¼"	5,300	Parker	1DGE3
½" x ⅛"	6,600	Parker	1DGE4
½" x ¼"	6,400	Parker	1DGE5
½" x ⅜"	4,600	Parker	1DGE6
¾" x ¼"	6,400	Parker	14M054
¾" x ⅜"	5,300	Parker	14M055
¾" x ½"	4,900	Parker	14M056

Reducing Hex Coupling, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼" x ⅛"	6,600	Parker	1DGB7
½" x ¼"	5,200	Parker	1DGC2
½" x ⅜"	5,200	Parker	1DGC3
¾" x ¼"	4,300	Parker	14M051

Street Tee, FNPT x MNPT x FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
¼"	5,600	Parker	1DGL3
⅜"	5,000	Parker	1DGL4
½"	4,500	Parker	1DGL5
¾"	3,500	Parker	14M060

Street Tee, MNPT x FNPT x FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNJ4

Tee, FNPT

Fitting Pipe Size	Max. Oper. Press. (psi)	Brand	316 Stainless Steel Item No.
⅛"	5,500	Parker	5UNG6
¼"	5,600	Parker	1DGK3
⅜"	5,000	Parker	1DGK4
½"	4,500	Parker	1DGK5
¾"	3,500	Parker	14M059

** 2"L. † 2.5"L. ‡ 3"L. # 1 7/16"L. ** 1⅞"L.*

Socket Weld Stainless Steel Pipe Fittings, Class 150 & 3000

- Female connections

Socket weld (SW) fittings attach by inserting pipe into the recessed area of the fitting. Pipe and the fitting are square cut for easy fillet welding and installation.

Type 304 stainless steel resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils.

Type 316 stainless steel has a higher nickel content than 304 stainless for greater corrosion resistance that resists corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstands pressure and high temperatures.

CLASS 150: Medium-pressure (300-399 psi). For plumbing or welding applications with air, water, natural gas, or steam.

Description	Fitting Pipe Size	316 Stainless Steel Item No.
Class 150 Medium Pressure Pipe Fittings		
45° Elbow	1¼"	2TY47
90° Elbow	¾"	2TY37
	1"	2TY38
	1½"	2TY40
	2"	2TY41
	2½"	2TY42
	3"	2TY43
Coupling	1"	2TY30
	1½"	2TY32
	2"	2TY33
	3"	2TY35
Tee	¾"	2TY61
	1"	2TY62
	1¼"	2TY63
	2"	2TY65
	2½"	2TY66
Union	½"	2TY68
	¾"	2TY69
	1"	2TY70
	1¼"	2TY71
	1½"	2TY72
	2"	2TY73

CLASS 3000: High-pressure (1000-3000 psi). For natural gas, non-potable water, and oil applications.

Description	Fitting Pipe Size	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 3000 High Pressure Pipe Fittings			
45° Elbow	½"	20XY86	20XZ36
	¾"	20XY87	20XZ37
	1"	20XY88	20XZ38
	1½"	20XY89	20XZ39
	2"	20XY90	20XZ40
90° Elbow	½"	20XY66	20XZ21
	¾"	20XY67	20XZ22
	1"	20XY68	20XZ23
	1½"	20XY69	20XZ24
	2"	20XY70	20XZ25
Coupling	½"	20XY96	20XZ46
	¾"	20XY97	20XZ47
	1"	20XY98	20XZ48
	1½"	20XY99	20XZ49
	2"	20XZ01	20XZ50
Outlet	¼"	4HWG2	4HWH1
	⅜"	4HWG3	4HWH2
	½"	20XZ07	20XZ56
	½"	4HWG4	4HWH3
	¾"	20XZ08	20XZ57
	¾"	4HWG5	4HWH4
	1"	20XZ09	20XZ58
	1"	4HWG6	4HWH5
	1¼"	4HWG7	4HWH6
	1½"	20XZ11 ‡	20XZ60 ‡
	1½"	20XZ10 #	20XZ59 #
	1½"	4HWG8	4HWH7
	2"	20XZ12 *	20YC11 *
	2"	20XZ13 †	20YC12 †
	2"	4HWG9	4HWH8
Tee	½"	20XY76	20XZ31
	¾"	20XY77	20XZ32
	1"	20XY78	20XZ33
	1½"	20XY79	20XZ34
	2"	20XY80	20XZ35

*# 1½"L. ‡ 1 7⁄16"L. * 1 11⁄16"L. † 1 9⁄16"L.*

Stainless Steel Pipe Flanges, Class 150 & 300

Flanges allow easy access for cleaning, inspection, and modification. **Raised face** flanges bolt onto pipes without needing welding. **Slip-on** flanges slip over pipe and are manufactured with an inside diameter slightly bigger than the pipe's outside diameter. The pipe slides through the flange and is welded on both sides. **Socket weld** flanges attach to pipe by inserting the pipe into the socket end of the flange and applying a fillet weld around the flange/pipe. **Blind** flanges, also called blank flanges, seal the end of piping systems or pressure vessel openings to test the flow of a gas or liquid. **Butt weld** flanges, also called welded neck flanges, attach by welding the pipe to the neck of the flange, transferring stress from the flange and the hub's base to the pipe. **Lap joint** flanges are most commonly used with stub end fittings and slide directly over the pipe. The pipe is welded to the stub end, allowing the lap joint flange to rotate freely around the stub end and eliminating issues with bolt-hole alignment. **Type 304 stainless steel** resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. **Type 316 stainless steel** has a higher nickel content than 304 stainless for even greater corrosion resistance.

CLASS 150: Low-pressure 100-299 psi. For use with air, water, oil, natural gas, and steam applications.

Class 150 Low Pressure Threaded

Class 150 Low Pressure Slip-On Flange

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 150 Low Pressure Threaded Flanges					
Raised Face Floor Flange					
½"	3½"	150 psi	4	4WPU6	4WPV7
¾"	3⅞"	150 psi	4	4WPU7	4WPV8
1"	4¼"	150 psi	4	4WPU8	4WPV9
1¼"	4⅝"	150 psi	4	4WPU9	4WPW1
1½"	5"	150 psi	4	4WPV1	4WPW2
2"	6"	150 psi	4	4WPV2	4WPW3
2½"	7"	150 psi	4	4WPV3	4WPW4
3"	7½"	150 psi	4	4WPV4	4WPW5
6"	11"	150 psi	8	60WJ88	4WPW7

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 150 Low Pressure Slip-On Flanges					
Raised Face Slip-On Flange					
1¼"	4⅝"	150 psi	4	4HWT3	—
2"	6"	—	4	—	60WK28
2"	6"	150 psi	4	4HWT5	—
3"	7½"	—	4	—	60WK29
3"	7½"	150 psi	4	4HWT7	—
4"	9"	150 psi	8	4HWT8	4HWU9
6"	11"	150 psi	8	4HWT9	4HWX1
Class 150 Low Pressure Socket Weld Flanges					
Raised Face Schedule 40 Socket Weld Flange					
½"	3½"	275 psi	4	1RUK2	—
½"	3½"	—	4	—	60WK31
¾"	3⅞"	275 psi	4	1RUK3	—
¾"	3⅞"	—	4	—	60WK32
1"	4¼"	275 psi	4	1RUK4	—
1"	4¼"	—	4	—	60WK33
1¼"	4⅝"	275 psi	4	1RUK5	—
1½"	5"	275 psi	4	1RUK6	—
1½"	5"	—	4	—	60WK35
2"	6"	150 psi	4	4HWX7	—
2"	6"	—	4	—	60WK36
2½"	7"	275 psi	4	1RUK8	—

CLASS 300: Medium-pressure 300-999 psi. For use with air, water, natural gas, and steam applications.

Class 300 Medium Pressure Blind

Class 300 Medium Pressure Socket Weld

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
2½"	7"	—	4	—	60WK37
4"	9"	—	8	—	60WK38
Class 300 Medium Pressure Threaded Flanges					
Raised Face Threaded Flange					
½"	3¾"	720 psi	4	4HVL4	4HVN4
¾"	4⅝"	720 psi	4	4HVL5	4HVN5
1"	4⅞"	720 psi	4	4HVL6	4HVN6
1¼"	5¼"	720 psi	4	4HVL7	4HVN7
1½"	6 1⁄16"	720 psi	4	4HVL8	—
1½"	6⅛"	720 psi	4	—	4HVN8
2"	6½"	720 psi	8	4HVL9	4HVN9
2½"	7½"	720 psi	8	4HVN1	4HVP1
3"	8¼"	720 psi	8	4HVN2	—
4"	10"	720 psi	8	4HVN3	—
Class 300 Medium Pressure Blind Flanges					
Raised Face Blind Flange					
½"	3¾"	720 psi	4	4HWC4	—
¾"	4⅝"	720 psi	4	4HWC5	4HWD5
1"	4⅞"	720 psi	4	4HWC6	4HWD6
1½"	5¼"	720 psi	4	4HWC8	4HWD8
2"	6½"	720 psi	8	4HWC9	4HWD9
2½"	7½"	720 psi	8	4HWD1	4HWE1
3"	8¼"	720 psi	8	4HWD2	4HWE2
4"	10"	720 psi	8	4HWD3	4HWE3

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 300 Medium Pressure Slip-On Flanges					
Raised Face Slip-On Flange					
½"	3¾"	720 psi	4	4HVP4	4HVR4
1"	4⅞"	720 psi	4	4HVP6	4HVR6
1¼"	5¼"	720 psi	4	4HVP7	—
1½"	6⅛"	720 psi	4	4HVP8	4HVR8
2"	6½"	720 psi	8	4HVP9	4HVR9
2½"	7½"	720 psi	8	4HVR1	4HVT1
3"	8¼"	720 psi	8	4HVR2	4HVT2
4"	10"	720 psi	8	4HVR3	4HVT3
Class 300 Medium Pressure Socket Weld Flanges					
Raised Face Schedule 40 Socket Weld Flange					
½"	3¾"	720 psi	4	4HVT4	4HVU4
¾"	4⅝"	720 psi	4	—	4HVU5
1"	4⅞"	720 psi	4	4HVT6	4HVU6
1¼"	5¼"	720 psi	4	4HVT7	—
1½"	6⅛"	720 psi	4	4HVT8	—
1½"	5¼"	720 psi	4	—	4HVU8
2"	6½"	720 psi	8	4HVT9	—
2½"	7½"	720 psi	8	4HVU1	4HVX1
3"	8¼"	720 psi	8	4HVU2	4HVX2
4"	10"	720 psi	8	4HVU3	4HVX3
Class 300 Medium Pressure Butt Weld Flanges					
Raised Face Schedule 40 Weld Neck Flange					
½"	3¾"	720 psi	4	4HVX4	—
¾"	4⅝"	720 psi	4	4HVX5	—
¾"	4 9⁄16"	720 psi	4	—	4HVY5
1"	4⅞"	720 psi	4	—	4HVY6
1¼"	5¼"	720 psi	4	—	4HVY7
1½"	6 1⁄16"	720 psi	4	4HVX8	4HVY8
2"	6½"	720 psi	8	4HVX9	4HVY9
2½"	7½"	720 psi	8	4HVY1	4HVZ1
3"	8¼"	720 psi	8	4HVY2	4HVZ2
4"	10"	720 psi	8	4HVY3	4HVZ3
Class 300 Medium Pressure Lap Joint Flanges					
Lap Joint Flange					
1"	4⅞"	720 psi	4	—	4HWA6
1¼"	5¼"	720 psi	4	—	4HWA7
1½"	6 1⁄16"	720 psi	4	—	4HWA8
2"	6½"	720 psi	8	—	4HWA9

Sanitary Stainless Steel Tube and Clamp Fittings

Clamp connections allow easy assembly and disassembly of process lines and equipment. 180 Grit I.D./150 Grit O.D. surface finish. Unions connect with heavy-duty clamps and sanitary gaskets. 3-A Certified. Gaskets sold on page 2788.

Description	Tube Size	T304 SS Item No.	T316L SS Item No.
Concentric Reducer, Clamp			
	1 ½ in x 1 in	11P821	11P832
	2 in x 1 in	11P822	11P833
	2 in x 1 ½ in	11P823	11P834
	2 ½ in x 1 ½ in	11P824	11P835
	2 ½ in x 2 in	11P825	11P836
	3 in x 1 ½ in	11P826	11P837
	3 in x 2 in	11P827	11P838
	3 in x 2 ½ in	11P828	11P839
	4 in x 2 in	11P829	11P840
	4 in x 2 ½ in	11P830	11P841
	4 in x 3 in	11P831	11P842
Elbow, 45°, Clamp			
	1 in	11D024	11D030
	1 ½ in	11D025	11D031
	2 in	11D026	11D032
	2 ½ in	11D027	11D033
	3 in	11D028	11D034
	4 in	11D029	11D035
Elbow, 90°, Clamp			
	1 in	11D012	11D018
	1 ½ in	11D013	11D019
	2 in	11D014	11D020
	2 ½ in	11D015	11D021
	3 in	11D016	11D022
	4 in	11D017	11D023
Elbow, 90°, Clamp x Butt Weld			
	1 in	11P867	11P873
	1 ½ in	11P868	11P874
	2 in	11P869	11P875
	2 ½ in	11P870	11P876
	3 in	11P871	11P877
	4 in	11P872	11P878
Equal Tee, Clamp			
	1 in	11D036	11L870
	1 ½ in	11D037	11L871
	2 in	11D038	11L872
	2 ½ in	11L867	11L873
	3 in	11L868	11L874
	4 in	11L869	11L875
Female Adapter, Clamp x FNPT			
	1 in	11P779	11P785
	1 ½ in	11P780	11P786
	2 in	11P781	11P787
	2 ½ in	11P782	11P788
	3 in	11P783	11P789
	4 in	11P784	11P790
Ferrule, Clamp			
	1 in	11L876	11L884
	1 ½ in	11L877	11L885
	2 in	11L878	11L886
	2 ½ in	11L879	11L887
	3 in	11L880	11L888
	4 in	11L881	11L889

Description	Tube Size	T304 SS Item No.	T316L SS Item No.
Heavy Wall Tank Ferrule, Clamp			
	1 in	11L917	11L923
	1 ½ in	11L918	11L924
	2 in	11L919	11L925
	2 ½ in	11L920	11L926
	3 in	11L921	11L927
	4 in	11L922	11L928
Hose Barb Adapter, Clamp x Hose Barb			
	½ in	—	11L947
	¾ in	—	11L948
	1 in	11L941	11L949
	1 ½ in	11L942	11L950
	2 in	11L943	11L951
	2 ½ in	11L944	11L952
	3 in	11L945	11P765
	4 in	11L946	11P766
Long Tank Ferrule, Clamp			
	1 in	11L929	11L935
	1 ½ in	11L930	11L936
	2 in	11L931	11L937
	2 ½ in	11L932	11L938
	3 in	11L933	11L939
	4 in	11L934	11L940
Male Adapter, Clamp x MNPT			
	1 in	11P767	11P773
	1 ½ in	11P768	11P774
	2 in	11P769	11P775
	2 ½ in	11P770	11P776
	3 in	11P771	11P777
	4 in	11P772	11P778
Roll-On Ferrule, Clamp			
	1 in	11L890	11L896
	1 ½ in	11L891	11L897
	2 in	11L892	11L898
	2 ½ in	11L893	11L899
	3 in	11L894	11L901
	4 in	11L895	11L902
Short Ferrule, Clamp			
	½ in	—	11L909
	¾ in	—	11L910
	1 in	11L903	11L911
	1 ½ in	11L904	11L912
	2 in	11L905	11L913
	2 ½ in	11L906	11L914
	3 in	11L907	11L915
	4 in	11L908	11L916
Solid End Cap, Clamp			
	½ in, ¾ in	—	11P797
	1 ½ in	11P791	—
	1 in x 1 ½ in	—	11P798
	2 in	11P792	11P799
	2 ½ in	11P793	11P801
	3 in	11P794	11P802
	4 in	11P795	—
	6 in	11P796	—

Sanitary Stainless Steel Clamps and Hangers

Clamps are O.D. polished to a smooth finish and are used with 3-A Certified fittings. Hangers have hexagonal shape with either Alcryn grommets or polypropylene inserts.

For Tube Size	T304 Stainless Steel 3-Piece Segment Clamp Item No.	Heavy Duty Clamp Item No.	High-Pressure Clamp Item No.	E-Line Clamp Item No.
Clamps				
½ in, ¾ in	—	11P804	11P815	—
1 in, 1 ½ in	11P810	11P805	11P816	11P985
2 in	11P811	11P806	11P817	11P986
2 ½ in	11P812	11P807	11P818	11P987
3 in	11P813	11P808	11P819	11P988
4 in	11P814	11P809	11P820	11P989

For Tube Size	Hex Hanger with Grommets, T304 SS/Alcryn Item No.	Hex Hanger with Insert, T304 SS/PVC Item No.
Hangers		
½ in	11R108	11R116
¾ in	11R109	11R117
1 in	11R110	11R118
1 ½ in	11R111	11R119
2 in	11R112	11R120
2 ½ in	11R113	11R121
3 in	11R114	11R122
4 in	11R115	11R123

Sanitary Stainless Steel Butterfly Valves

53CT94

- Max. pressure: 145 psi
- Temp. range: 15° to 266°F

Feature 32 Ra I.D. surface finish, silicon seats, and clamp-style connection.

Tube Size	Overall Length	Body & Disc Material T304 Stainless Steel Item No.	T316L Stainless Steel Item No.
Trigger			
1 in	2 19⁄32 in	53CT94	53CU01
1 ½ in	2 ¾ in	53CT95	53CU02
2 in	3 in	53CT96	53CU03
2 ½ in	3 5⁄32 in	53CT97	53CU04
3 in	3 5⁄16 in	53CT98	53CU05
4 in	4 3⁄32 in	53CT99	53CU06

Sanitary Stainless Steel 2-Way Ball Valves

11A421

- Temp. range: -65° to 320°F

Design allows for unrestricted flow through valve. Can be serviced without complete removal from line. 316 stainless steel construction with PTFE seats. 20 Ra I.D. finish. Full port style. Blowout-proof stem. Pad lockable handle is AISI-304 stainless steel. Seats in compliance with FDA Regulations.

Pipe Size	Overall Length	Item No.
Clamp x Clamp		
½ in	3 ½ in	11A421
¾ in	4 in	11A422
1 in	4 ½ in	11A423
1 ½ in	5 ½ in	11A424
2 in	6 9⁄64 in	11A425
2 ½ in	7 ¾ in	11A426
3 in	9 in	11A427
4 in	9 9⁄16 in	11A428
Butt Weld x Butt Weld		
½ in	3 ½ in	11A429
¾ in	4 in	11A430
1 in	4 ½ in	11A431
1 ½ in	6 9⁄64 in	11A432
2 in	6 9⁄64 in	11A433
2 ½ in	7 ¾ in	11A434
3 in	9 in	11A435
4 in	9 9⁄16 in	11A436

Temp. Chart	
BUNA	-30 to 200°F
EPDM	-30 to 300°F
PTFE	-100 to 500°F
Silicone	-40 to 450°F
FKM	-30 to 400°F
Tuf-Flex	-20 to 300°F

12N559

12N574

Tube Size	EPDM Item No.	BUNA Item No.	PTFE Item No.	Platinum Silicone Item No.	FKM Item No.
Tri-Clamp Gaskets					
½ in	5PXY1	5PXZ0	5PYC7	5PYA8	5PXZ9
¾ in	5PXY2	5PXZ1	5PYC8	5PYA9	5PYA0
1 in	5PXY3	5PXZ2	5PYC9	5PYC0	5PYA1
1 ½ in	5PXY4	5PXZ3	5PYD0	5PYC1	5PYA2
2 in	5PXY5	5PXZ4	5PYD1	5PYC2	5PYA3
2 ½ in	5PXY6	5PXZ5	5PYD2	5PYC3	5PYA4
3 in	5PXY7	5PXZ6	5PYD3	5PYC4	5PYA5
4 in	5PXY8	5PXZ7	5PYD4	5PYC5	5PYA6
6 in	5PXY9	5PXZ8	5PYD5	5PYC6	5PYA7

Tube Size	BUNA Item No.	EPDM Item No.	FKM Item No.	Silicone Item No.	TUF-STEEL® Item No.
Tri-Clamp Detectomer Metal Detectable/X-Ray Inspectable Sanitary Gaskets					
1 in	12N554	11Z819	11Z827	12N562	12N570
1 ½ in	12N555	11Z820	11Z828	12N563	12N571
2 in	12N556	11Z821	11Z829	12N564	12N572
2 ½ in	12N557	11Z822	11Z830	12N565	12N573
3 in	12N558	11Z823	11Z831	12N566	12N574
4 in	12N559	11Z824	11Z832	12N567	12N575

Tube Size	BUNA-Flat Item No.	BUNA-BSB Item No.	TUF-STEEL® Item No.
Bevel Seat			
1 ½ in	5PYD7	5PYK6	35YX27
2 in	5PYD8	5PYK7	35YX28
2 ½ in	5PYD9	5PYK8	35YX29
3 in	5PYE0	5PYK9	35YX30

Tube Size	BUNA Item No.
Tri-Clamp Screen Gaskets	
1 in	5PYJ3
1 ½ in	5PYJ4
2 in	5PYJ5
2 ½ in	5PYJ6
3 in	5PYJ7
4 in	5PYJ8

Tube Size	BUNA w/ Stainless Plate Item No.
Orifice Plate	
1 in	5PYJ9
1 ½ in	5PYK0
2 in	5PYK1
2 ½ in	5PYK2
3 in	5PYK3
4 in	5PYK4

Tube Size	PTFE Item No.	TUF-STEEL® Item No.
I-Line		
1 ½ in	5PYL2	—
2 in	5PYL3	35YX31
2 ½ in	5PYL4	35YX32
3 in	5PYL5	35YX25
4 in	5PYL6	35YX24

Tube Size	BUNA-10 SS Mesh Item No.	BUNA-16 SS Mesh Item No.	EPDM-10 SS Mesh Item No.	EPDM-16 SS Mesh Item No.
Sock Screen Gaskets				
1 ½ in	38R184	38R186	38R188	38R190
2 in	38R185	38R187	38R189	38R191

Tube Size	PTFE/EPDM Item No.	Tube Size	PTFE/EPDM Item No.
Tuf-Flex Gasket			
½ in	38R086	2 in	38R090
¾ in	38R087	2 ½ in	38R091
1 in	38R088	3 in	38R092
1 ½ in	38R089	4 in	38R093
		6 in	38R094

Sanitary Gaskets

Rubber Fab
a Garlock Hygienic Technologies company

Tri-Clamp—Gaskets are used to seal clamp connections in sanitary pipe lines. For use in the beverage, biotech, dairy, food, pharmaceutical, and other sanitary process applications. Buna N material does not meet USP Class VI and is not ADI free.

Tri-Clamp Detectomer Metal Detectable/X-Ray Inspectable—Allow metal and x-ray detection equipment to instantly locate and reject products contaminated with displaced gasket material.

Bevel Seat—Designed for use in sanitary piping systems in the beverage, dairy, food, and pharmaceutical industries.

Tri-Clamp Screen—Help eliminate particulates to protect fill and finish sterile products, spray balls, and spray nozzles.

Orifice Plate—Allow flow rate adjustment, backflow balance, and back pressure equalization during sterilizing in place (SIP) procedures.

I-Line—Designed for use in sanitary piping systems in the beverage, dairy, food, and pharmaceutical industries.

Tuf-Flex—Innovative unitized gasket has high standards for flexibility, performance, and purity. Specifically designed for critical requirements in biotechnology, pharmaceutical, ultrapure water, and WFI (water-for-injection) applications.

Sock Screen—Extended sock-shaped mesh gaskets are inserted into the inside of stainless steel tubing and provide filtration for a greater soil retention. Offer up to 300% more open area for 300% more soil collection capability than conventional screens.

Brass & Bronze Pipe & Pipe Nipples, Schedule 40, 80 & Instrumentation

Parker

Fully Threaded Low-Lead Pipe is precision machined for leak-free connections between pipe and fittings.

Brass is strong, highly conductive, maintains machineability at high temperatures, and resists corrosion from water, heat, acids, minerals, and peaty soils. It's compatible with stainless steel, copper, or zinc piping. **Bronze** is a metal alloy of copper and tin and resists corrosion from saltwater and has higher heat and electric conductivity than most metals. Pipe and nipples connect with pipe fittings to transport air, drinking water, flammable gases, slurries, and chemicals in plumbing applications for residential and commercial buildings. Threaded connections use PTFE tape to secure seal.

SCHEDULE 40: Low-pressure (100-299 psi). Schedule 40 pipe and nipples have thicker walls than Schedule 10, but not as thick as Schedule 80. Low-lead items are rated for use with drinking water.

Unthreaded Low Pressure Pipe

Fully Threaded Nipple

Threaded on Both Ends Nipple

Instrumentation Threaded on Both Ends Nipple

Nominal Pipe Size	Maximum Operating Temperature	Overall Length 12" Item No.	3-ft Item No.	6-ft Item No.
Schedule 40 Bronze Unthreaded Low Pressure Pipe				
⅛"	400 °F	**4GRU5**	**4GRV5**	**4GRW5**
¼"	400 °F	**4GRU6**	—	**4GRW6**
⅜"	400 °F	**4GRU7**	**4GRV7**	**4GRW7**
½"	400 °F	**4GRU8**	—	**4GRW8**
¾"	400 °F	—	—	**4GRW9**
1"	400 °F	**4GRV1**	**4GRW1**	**4GRX1**
1¼"	400 °F	—	**4GRW2**	**4GRX2**
1½"	400 °F	**4GRV3**	**4GRW3**	**4GRX3**
2"	400 °F	—	**4GRW4**	**4GRX4**

Nominal Pipe Size	Overall Length	Connection Type	Maximum Steam Pressure	Maximum Operating Pressure	Maximum Operating Temperature	Item No.
Schedule 40 Low-Lead Brass Fully Threaded Nipples						
⅛"	13⁄32"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M479**
¼"	½"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M478**
¼"	1½"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M474**
¼"	2"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M473**
⅜"	45⁄64"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M477**
½"	51⁄64"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M476**
¾"	17⁄64"	MNPT	1200 psi	1000 psi @ 200°F	250 °F	**46M475**
Schedule 40 Bronze Fully Threaded Low Pressure Nipples						
⅛"	¾"	MBSPT x MNPT	373 psi @ 450°F	373 psi @ 450°F	400 °F	**4TJK4**
⅛"	¾"	MNPT	373 psi @ 450°F	373 psi @ 450°F	400 °F	**1VGG3**
¼"	⅞"	MNPT	282 psi @ 450°F	201 psi @ 450°F	400 °F	**1VGJ3**
⅜"	1"	MNPT	276 psi @ 450°F	276 psi @ 450°F	400 °F	**1VGL3**
½"	1⅛"	MNPT	267 psi @ 450°F	267 psi @ 450°F	400 °F	**1VGP3**
¾"	1⅛"	MBSPT x MNPT	953 psi @ 300°F	240 psi @ 450°F	400 °F	**4TJK8**
¾"	1⅛"	MNPT	953 psi @ 300°F	240 psi @ 450°F	400 °F	**1VGT3**
3"	2⅝"	MNPT	576 psi @ 300°F	144 psi @ 450°F	400 °F	**1VHD8**
4"	2⅞"	MNPT	561 psi @ 300°F	140 psi @ 450°F	400 °F	**1VHE4**

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
Schedule 40 Bronze Threaded on Both Ends Pipe & Nipples, MNPT Connection							
⅛" Nominal Pipe Size							
Nipple	1½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGG5**	1
	2"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGG7**	1
	2½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGG9**	1
	3"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGH2**	1
	3½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGH4**	1
	4"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGH6**	1
	5"	—	—	400 °F	—	**1VGH8**	1
	6"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**1VGJ1**	1
	6½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GRX5**	1
	7"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	**4GRY8**	1
	8"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTA2**	1
	9"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTC5**	1
	10"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTD8**	1
	11"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTF2**	1
	12"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTG5**	1
Pipe	18"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTH8**	1
	2-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTJ9**	1
	3-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTL1**	1
	4-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTN2**	1
	6-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	**4GTR4**	1
¼" Nominal Pipe Size							
Nipple	1½"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGJ5**	1
	2"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGJ7**	1
	2½"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGJ9**	1
	3"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGK2**	1
	3½"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGK4**	1
	4"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGK6**	1
	5"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGK8**	1
	6"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**1VGL1**	1
	6½"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GRX6**	1
	7"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GRY9**	1
	8"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTA3**	1
	9"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTC6**	1
	10"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTD9**	1
	11"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	**4GTF3**	1
	12"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTG6**	1
Pipe	18"	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTH9**	1
	2-ft	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTK1**	1
	3-ft	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTL2**	1
	4-ft	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTN3**	1
	5-ft	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTP4**	1
	6-ft	282 psi @ 450°F	201 psi @ 450°F	400 °F	—	**4GTR5**	1
⅜" Nominal Pipe Size							
Nipple	1½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGL5**	1
	2"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGL7**	1
	2½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGL9**	1
	3"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGN2**	1
	3½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGN4**	1
	4"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGN6**	1
	5"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGN8**	1
	6"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**1VGP1**	1
	7"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GRZ1**	1
	8"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTA4**	1
	9"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	**4GTC7**	1
	10"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTE1**	1
	12"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTG7**	1
Pipe	18"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTJ1**	1
	2-ft	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTK2**	1
	3-ft	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTL3**	1
	6-ft	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	**4GTR6**	1
½" Nominal Pipe Size							
Nipple	1½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGP5**	1
	2"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGP7**	1
	2½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGP9**	1
	3"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGR2**	1
	3½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGR4**	1
	4"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGR6**	1
	5"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGR8**	1
	6"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**1VGT1**	1
	6½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GRX8**	1
	7"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GRZ2**	1
	8"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTA5**	1
	9"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTC8**	1
	10"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTE2**	1
	11"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	**4GTF5**	1
	12"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTG8**	1
Pipe	18"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTJ2**	1
	2-ft	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTK3**	1
	3-ft	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTL4**	1
	4-ft	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	**4GTN5**	1
¾" Nominal Pipe Size							
Nipple	1½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGT5**	1
	2"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGT7**	1
	2½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGT9**	1
	3"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGU2**	1
	3½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGU4**	1
	4"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGU6**	1
	5"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGU8**	1
	6"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**1VGV1**	1
	6½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GRX9**	1
	7"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GRZ3**	1
	8"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTA6**	1
	9"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTC9**	1
	10"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTE3**	1
	11"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTF6**	1
	12"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTG9**	1
Pipe	2-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTK4**	1
	4-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTN6**	1
	5-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTP7**	1
	6-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	**4GTR8**	1
1" Nominal Pipe Size							
Nipple	1½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGV3**	1
	2"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGV5**	1
	2½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGV7**	1
	3"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGV9**	1
	3½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGW2**	1
	4"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGW4**	1
	5"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGW6**	1
	6"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**1VGW8**	1
	6½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GRY1**	1
	7"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GRZ4**	1
	8"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTA7**	1
	9"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTD1**	1
	10"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTE4**	1
	11"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTF7**	1
	12"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTH1**	1
Pipe	18"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTJ4**	1
	2-ft	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTK5**	1
	3-ft	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTL6**	1
	6-ft	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	**4GTR9**	1

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Brass & Bronze Pipe & Pipe Nipples, Schedule 40, 80 & Instrumentation

Parker

SCHEDULE 40: Low-pressure (100-299 psi). Schedule 40 pipe and nipples have thicker walls than Schedule 10, but not as thick as Schedule 80. Low-lead items are rated for use with drinking water.

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
Schedule 40 Bronze Threaded on Both Ends Pipe & Nipples, MNPT Connection (Cont.)							
1¼" Nominal Pipe Size							
Nipple	1⅜"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGX1	1
	2"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGX3	1
	2½"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGX5	1
	3"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGX7	1
	3½"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGX9	1
	4"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGY2	1
	5"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGY4	1
	6"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	1VGY6	1
	6½"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GRY2	1
	7"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GRZ5	1
	8"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GTA8	1
	9"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GTD2	1
	12"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GTH2	1
Pipe	18"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GTJ5	1
	2-ft	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GTK6	1
	4-ft	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GTN8	1
	6-ft	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GTT1	1
1½" Nominal Pipe Size							
Nipple	1¾"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VGY8	1
	2"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VGZ1	1
	2½"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VGZ4	1
	3"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VGZ7	1
	3½"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VHA1	1
	4"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VHA3	1
	5"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VHA5	1
	6"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	1VHA7	1
	6½"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GRY3	1
	7"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GRZ6	1
	8"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GTA9	1
	9"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GTD3	1
	11"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GTF9	1
	12"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GTH3	1
Pipe	2-ft	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GTK7	1
	6-ft	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4GTT2	1

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
2" Nominal Pipe Size							
Nipple	2"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHA9	1
	2½"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHB2	1
	3"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHB4	1
	3½"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHB6	1
	4"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHB8	1
	5"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHC1	1
	6"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	1VHC3	1
	7"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GRZ7	1
	8"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTC1	1
	9"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTD4	1
	10"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTE7	1
	12"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTH4	1
Pipe	2-ft	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTK8	1
	3-ft	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTL9	1
	6-ft	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4GTT3	1
2½" Nominal Pipe Size							
Nipple	2½"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	1VHC5	1
	3"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	1VHC7	1
	3½"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	1VHC9	1
	4"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	1VHD2	1
	6"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	1VHD6	1
	6½"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GRY5	1
	8"	125 psi @ 150°F	200 psi @ 150°F	400 °F	—	4GTC2	1
	10"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	4GTE8	1
	11"	515 psi @ 300°F	130 psi @ 450°F	400 °F	—	4GTG2	1
3" Nominal Pipe Size							
Nipple	3"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	1VHD9	1
	4"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	1VHE1	1
	6"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	1VHE3	1
	7"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	4GRZ9	1
	8"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	4GTC3	1
	12"	576 psi @ 300°F	144 psi @ 450°F	400 °F	—	4GTH6	1
4" Nominal Pipe Size							
Nipple	3"	—	—	400 °F	—	1VHE5	1

SCHEDULE 80: Low-pressure (100-299 psi). Schedule 80 pipe nipples have thicker walls than Schedule 40, but not as thick as Schedule 160.

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
Schedule 80 Bronze Fully Threaded Low Pressure Nipples, MNPT Connection							
⅛" Nominal Pipe Size							
Nipple	¾"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRA9	1
¼" Nominal Pipe Size							
Nipple	⅞"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRC1	1
⅜" Nominal Pipe Size							
Nipple	1"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRC2	1
½" Nominal Pipe Size							
Nipple	1⅛"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRC3	1
¾" Nominal Pipe Size							
Nipple	1⅛"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRC4	1
1¼" Nominal Pipe Size							
Nipple	1⅜"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRC6	1
Schedule 80 Bronze Threaded on Both Ends Pipe & Nipples, MNPT Connection							
⅛" Nominal Pipe Size							
Nipple	1½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRC9	1
	2"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRD5	1
	2½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRE4	1
	3"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRF5	1
	3½"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRG6	1
	4"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRH7	1
	6"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRK9	1
	8"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRN1	1
	10"	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRP2	1
	12"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRR3	1
Pipe	3-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4DRV4	1
	6-ft	373 psi @ 450°F	373 psi @ 450°F	400 °F	—	4GRT5	1
¼" Nominal Pipe Size							
Nipple	1½"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRD1	1
	2"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRD6	1
	2½"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRE5	1
	3"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRF6	1
	3½"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRG7	1
	4"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRH8	1
	5"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRJ9	1
	6"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRL1	1
	8"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRN2	1
	10"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRP3	1
	12"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRR4	1
Pipe	18"	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRT5	1
	3-ft	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4DRV5	1
	4-ft	282 psi @ 450°F	282 psi @ 450°F	400 °F	—	4GRP6	1
⅜" Nominal Pipe Size							
Nipple	1½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRD2	1
	2"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRD7	1
	2½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRE6	1
	3"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRF7	1
	3½"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRG8	1
	4"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRH9	1
	5"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRK1	1
	6"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRL2	1
	8"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRN3	1
	10"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRP4	1
Pipe	18"	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRT6	1
	2-ft	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4DRU6	1
	4-ft	276 psi @ 450°F	276 psi @ 450°F	400 °F	—	4GRP7	1

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
½" Nominal Pipe Size							
Nipple	1½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRD3	1
	2"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRD8	1
	2½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRE7	1
	3"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRF8	1
	3½"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRG9	1
	4"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRJ1	1
	5"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRK2	1
	6"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRL3	1
	8"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRN4	1
	10"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRP5	1
	12"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRR6	1
Pipe	18"	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRT7	1
	2-ft	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4DRU7	1
	4-ft	267 psi @ 450°F	267 psi @ 450°F	400 °F	—	4GRP8	1
¾" Nominal Pipe Size							
Nipple	1½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRD4	1
	2"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRD9	1
	2½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRE8	1
	3"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRF9	1
	3½"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRH1	1
	4"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRJ2	1
	5"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRK3	1
	6"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRL4	1
	8"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRN5	1
	12"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRR7	1
Pipe	18"	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRT8	1
	2-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4DRU8	1
	3-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4GRN9	1
	4-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4GRP9	1
	5-ft	953 psi @ 300°F	240 psi @ 450°F	400 °F	—	4GRR9	1
1" Nominal Pipe Size							
Nipple	1½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRC5	1
	2"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRE1	1
	2½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRE9	1
	3"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRG1	1
	3½"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRH2	1
	4"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRJ3	1
	5"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRK4	1
	6"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRL5	1
	8"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRN6	1
	10"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRP7	1
	12"	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRR8	1
Pipe	2-ft	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4DRU9	1
	6-ft	755 psi @ 300°F	190 psi @ 450°F	400 °F	—	4GRU1	1
1¼" Nominal Pipe Size							
Nipple	2"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRE2	1
	2½"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRF1	1
	4"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRJ4	1
	5"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRK5	1
	6"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRL6	1
	8"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRN7	1
	10"	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4DRP8	1
Pipe	4-ft	796 psi @ 300°F	201 psi @ 450°F	400 °F	—	4GRR2	1

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Brass & Bronze Pipe & Pipe Nipples, Schedule 40, 80 & Instrumentation

Parker

SCHEDULE 80: Low-pressure (100-299 psi). Schedule 80 pipe nipples have thicker walls than Schedule 40, but not as thick as Schedule 160.

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
Schedule 80 Bronze Threaded on Both Ends Pipe & Nipples, MNPT Connection (Cont.)							
1½" Nominal Pipe Size							
Nipple	1¾"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRC7	1
	2"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRE3	1
	2½"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRF2	1
	3"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRG3	1
	4"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRJ5	1
	5"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRK6	1
	6"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRL7	1
	8"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRN8	1
	12"	731 psi @ 300°F	184 psi @ 450°F	400 °F	—	4DRT1	1
2" Nominal Pipe Size							
Nipple	2"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRC8	1
	2½"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRF3	1
	3"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRG4	1
	3½"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRH5	1
	4"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRJ6	1
	5"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRK7	1
	6"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRL8	1
	8"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRN9	1
	12"	625 psi @ 300°F	157 psi @ 450°F	400 °F	—	4DRT2	1
Pipe	18"	250 psi @ 400°F	400 psi @ 150°F	400 °F	—	4DRU3	1

INSTRUMENTATION: High-pressure (1000-3000 psi). Instrumentation nipples are precision machined and threaded on both connection ends for leak-free connections between fittings and instruments.

Item	Overall Length	Maximum Steam Pressure	Max. Operating Pressure	Max. Operating Temp.	Brand	Item No.	Pkg. Qty.
Instrumentation Brass Threaded on Both Ends Nipples, MNPT Connection							
⅛" Nominal Pipe Size							
Nipple	¾"	1000 psi	1000 psi	250 °F	Parker	13Y770	1
	¾"	1200 psi	1200 psi	250 °F	—	6AZD5	10
	1½"	1000 psi	1000 psi	250 °F	Parker	13Y775	1
	1½"	1200 psi	1200 psi	250 °F	—	6AZE0	10
	2"	1000 psi	1000 psi	250 °F	Parker	13Y776	1
	2"	1200 psi	1200 psi	250 °F	—	6AZE1	10
	2½"	1000 psi	1000 psi	250 °F	Parker	13Y777	1
	3"	1000 psi	1000 psi	250 °F	Parker	13Y778	1
	3½"	1000 psi	1000 psi	250 °F	Parker	13Y779	1
¼" Nominal Pipe Size							
Nipple	⅞"	1000 psi	1000 psi	250 °F	Parker	13Y771	1
	⅞"	1200 psi	1200 psi	250 °F	—	6AZD6	10
	1½"	1000 psi	1000 psi	250 °F	Parker	13Y780	1
	1½"	1200 psi	1200 psi	250 °F	—	6AZE2	10
	2"	1000 psi	1000 psi	250 °F	Parker	13Y781	1
	2"	1200 psi	1200 psi	250 °F	—	6AZE3	10
	2½"	1000 psi	1000 psi	250 °F	Parker	13Y782	1
	3"	1000 psi	1000 psi	250 °F	Parker	13Y783	1
	3½"	1000 psi	1000 psi	250 °F	Parker	13Y784	1
⅜" Nominal Pipe Size							
Nipple	1"	1000 psi	1000 psi	250 °F	Parker	13Y772	1
	1"	1200 psi	1200 psi	250 °F	—	6AZD7	10
	1½"	1000 psi	1000 psi	250 °F	Parker	13Y785	1
	1½"	1200 psi	1200 psi	250 °F	—	6AZE4	10
	2"	1000 psi	1000 psi	250 °F	Parker	13Y786	1
	2"	1200 psi	1200 psi	250 °F	—	6AZE5	10
	2½"	1000 psi	1000 psi	250 °F	Parker	13Y787	1
	3"	1000 psi	1000 psi	250 °F	Parker	13Y788	1
	3½"	1000 psi	1000 psi	250 °F	Parker	13Y789	1
½" Nominal Pipe Size							
Nipple	⅞"	1000 psi	1000 psi	250 °F	Parker	13Y773	1
	1⅛"	1200 psi	1200 psi	250 °F	—	6AZD8	10
	1½"	1000 psi	1000 psi	250 °F	Parker	13Y790	1
	1½"	1200 psi	1200 psi	250 °F	—	6AZE6	10
	2"	1000 psi	1000 psi	250 °F	Parker	13Y791	1
	2"	1200 psi	1200 psi	250 °F	—	6AZE7	10
	2½"	1000 psi	1000 psi	250 °F	Parker	13Y792	1
	3"	1000 psi	1000 psi	250 °F	Parker	13Y793	1
	3½"	1000 psi	1000 psi	250 °F	Parker	13Y794	1
¾" Nominal Pipe Size							
Nipple	1⅛"	1200 psi	1200 psi	250 °F	—	6AZD9	5
	1 5/16"	1000 psi	1000 psi	250 °F	Parker	13Y774	1
	1½"	1200 psi	1200 psi	250 °F	—	6AZE8	5
	2"	1200 psi	1200 psi	250 °F	—	6AZE9	5

Threaded Brass & Bronze Pipe Fittings, Class 125 & High-Pressure

Parker

- Tees read: run x run x outlet

These fittings connect with pipe to transport air, drinking water, flammable gases, slurries, and chemicals in residential and industrial plumbing applications. They resist corrosion from water, heat, saltwater, acids, minerals, and soils. Connections use PTFE tape to secure seal.

LOW-LEAD CLASS 125: Low-pressure (100-299 psi). For use with air, water, natural gas, and steam in commercial and residential buildings and are rated for use with drinking water.

Low-Lead Class 125 Low Pressure Pipe Fittings

45° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	125 psi	—	22UL02	1
½"	FNPT	Red Brass	125 psi	—	6RCT8	1
¾"	FNPT	Red Brass	125 psi	—	6RCT9	1
1½"	FNPT	Brass	125 psi	—	22UL04	1
2"	FNPT	Red Brass	125 psi	—	6RCU1	1

45° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	MNPT x FNPT	Brass	125 psi	—	22UL13	1
¾"	MNPT x FNPT	Brass	125 psi	—	22UL14	1
1½"	MNPT x FNPT	Brass	125 psi	—	22UL63	1

90° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	125 psi	—	22UK98	1
¼"	FNPT	Red Brass	125 psi	—	6RCU2	1
⅜"	FNPT	Red Brass	125 psi	—	6RCU3	1
½"	FNPT	Red Brass	125 psi	—	6RCU4	1
¾"	FNPT	Red Brass	125 psi	—	6RCU5	1
1¼"	FNPT	Brass	125 psi	—	22UK99	1
1"	FNPT	Red Brass	125 psi	—	6RCU7	1
1½"	FNPT	Red Brass	125 psi	—	6RCU8	1
2"	FNPT	Red Brass	125 psi	—	6RCU6	1

90° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT x FNPT	Red Brass	125 psi	—	6RCX5	1
⅜"	MNPT x FNPT	Brass	125 psi	—	22UL06	1
½"	MNPT x FNPT	Red Brass	125 psi	—	6RCX6	1
¾"	MNPT x FNPT	Red Brass	125 psi	—	6RCX7	1
1¼"	MNPT x FNPT	Brass	125 psi	—	22UL07	1
1½"	MNPT x FNPT	Brass	125 psi	—	22UL08	1
1"	MNPT x FNPT	Red Brass	125 psi	—	6RCX8	1
2"	MNPT x FNPT	Brass	125 psi	—	22UL09	1

Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	6RCV4	1
⅜"	FNPT	Brass	125 psi	—	22UL47	1
⅜"	FNPT	Red Brass	125 psi	—	6RCV5	1
½"	FNPT	Red Brass	125 psi	—	6RCV6	1
¾"	FNPT	Red Brass	125 psi	—	6RCV7	1
1½"	FNPT	Brass	125 psi	—	22UL53	1
1½"	FNPT	Brass	125 psi	—	22UL54	1
1"	FNPT	Red Brass	125 psi	—	6RCV8	1
1¼"	FNPT	Red Brass	125 psi	—	6RCV9	1
1½"	FNPT	Red Brass	125 psi	—	6RCW0	1
2"	FNPT	Red Brass	125 psi	—	6RCW1	1

Cross

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾"	FNPT	Brass	125 psi	—	22UL21	1

Hex Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	125 psi	—	22UL34	1
⅜" x ¼"	MNPT x FNPT	Brass	125 psi	—	22UL36	1
½" x ¼"	MNPT x FNPT	Red Brass	125 psi	—	6RCW2	1
½" x ⅜"	MNPT x FNPT	Red Brass	125 psi	—	6RCW3	1
¾" x ¼"	MNPT x FNPT	Brass	125 psi	—	22UL39	1
¾" x ⅜"	MNPT x FNPT	Brass	125 psi	—	22UL40	1
¾" x ½"	MNPT x FNPT	Red Brass	125 psi	—	6RCW4	1
1" x ¼"	MNPT x FNPT	Brass	125 psi	—	22UL41	1
1" x ⅜"	MNPT x FNPT	Brass	125 psi	—	22UL42	1
1½" x ¾"	MNPT x FNPT	Brass	125 psi	—	22UL43	1
1" x ½"	MNPT x FNPT	Red Brass	125 psi	—	6RCW5	1
1" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	6RCW6	1
1¼" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	6RCW7	1
1¼" x 1"	MNPT x FNPT	Red Brass	125 psi	—	6RCW8	1
1½" x 1"	MNPT x FNPT	Red Brass	125 psi	—	6RCW9	1
1½" x 1¼"	MNPT x FNPT	Red Brass	125 psi	—	6RCX0	1
2" x ¾"	MNPT x FNPT	Brass	125 psi	—	22UL44	1
2" x 1"	MNPT x FNPT	Brass	125 psi	—	22UL45	1
2" x 1¼"	MNPT x FNPT	Red Brass	125 psi	—	6RCX1	1
2" x 1½"	MNPT x FNPT	Red Brass	125 psi	—	6RCX2	1

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CONTINUED

Threaded Brass & Bronze Pipe Fittings, Class 125 & High-Pressure

Parker

LOW-LEAD CLASS 125: Low-pressure (100-299 psi). For use with air, water, natural gas, and steam in commercial and residential buildings.

Low-Lead Class 125 Low Pressure Pipe Fittings (Cont.)

Recessed Square Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
1"	MNPT	Brass	125 psi	—	22UL66	1
1½"	MNPT	Brass	125 psi	—	22UL67	1
2"	MNPT	Brass	125 psi	—	22UL68	1

Reducing Branch Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾" x ¾" x ½"	FNPT	Red Brass	125 psi	—	6RCZ2	1

Reducing Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT	Brass	125 psi	—	22UL46	1
½" x ¼"	FNPT	Red Brass	125 psi	—	6RCY7	1
½" x ⅜"	FNPT	Red Brass	125 psi	—	6RCY8	1
¾" x ¼"	FNPT	Brass	125 psi	—	22UL49	1
¾" x ⅜"	FNPT	Brass	125 psi	—	22UL50	1
¾" x ½"	FNPT	Red Brass	125 psi	—	6RCY9	1
1" x ½"	FNPT	Red Brass	125 psi	—	6RCZ0	1
1" x ¾"	FNPT	Red Brass	125 psi	—	6RCZ1	1
2" x 1"	FNPT	Brass	125 psi	—	22UL55	1
2" x 1½"	FNPT	Brass	125 psi	—	22UL57	1

Round Cap

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅜"	FNPT	Red Brass	125 psi	—	6RCY0	1
½"	FNPT	Red Brass	125 psi	—	6RCY1	1
¾"	FNPT	Red Brass	125 psi	—	6RCY2	1
1¼"	FNPT	Red Brass	125 psi	—	6RCY3	1
2"	FNPT	Red Brass	125 psi	—	6RCY4	1
1"	FNPT	Red Brass	125 psi	—	6RCY5	1
1½"	FNPT	Red Brass	125 psi	—	6RCY6	1

Square Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
1½"	MNPT	Brass	125 psi	—	22UL33	1
½"	MNPT	Red Brass	125 psi	—	6RCU9	1
¾"	MNPT	Red Brass	125 psi	—	6RCV0	1
1"	MNPT	Red Brass	125 psi	—	6RCV1	1
1¼"	MNPT	Red Brass	125 psi	—	6RCV2	1
2"	MNPT	Red Brass	125 psi	—	6RCV3	1
¼"	MNPT	Red Brass	125 psi	—	6RCZ4	1
⅜"	MNPT	Red Brass	125 psi	—	6RCZ5	1

Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	6RCZ6	1
⅜"	FNPT	Red Brass	125 psi	—	6RCZ7	1
½"	FNPT	Red Brass	125 psi	—	6RCZ8	1
¾"	FNPT	Red Brass	125 psi	—	6RCZ9	1
1¼"	FNPT	Red Brass	125 psi	—	6RDA0	1
1"	FNPT	Red Brass	125 psi	—	6RDA1	1
1½"	FNPT	Red Brass	125 psi	—	6RDA2	1
2"	FNPT	Red Brass	125 psi	—	6RDA3	1

Union

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	6RDA4	1
⅜"	FNPT	Brass	125 psi	—	22UL26	1
½"	FNPT	Red Brass	125 psi	—	6RDA5	1
¾"	FNPT	Red Brass	125 psi	—	6RDA6	1
1¼"	FNPT	Red Brass	125 psi	—	6RDA7	1
1"	FNPT	Red Brass	125 psi	—	6RDA9	1
1½"	FNPT	Red Brass	125 psi	—	6RDC0	1
2"	FNPT	Red Brass	125 psi	—	6RDA8	1

Class 125 Low Pressure Pipe Fittings

90° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	1VER6	1
½"	FNPT	Red Brass	125 psi	—	1VER8	1
¾"	FNPT	Red Brass	125 psi	—	1VER9	1
1"	FNPT	Red Brass	125 psi	—	1VEU1	1
1½"	FNPT	Red Brass	125 psi	—	1VEU3	1
2"	FNPT	Red Brass	125 psi	—	1VEU4	1

90° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	MNPT x FNPT	Red Brass	125 psi	—	1VEW2	1
¾"	MNPT x FNPT	Red Brass	125 psi	—	1VEW3	1
1"	MNPT x FNPT	Red Brass	125 psi	—	1VEW4	1
1½"	MNPT x FNPT	Red Brass	125 psi	—	1VEW8	1

Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	1VFD5	1
¾"	FNPT	Red Brass	125 psi	—	1VFE2	1
1"	FNPT	Red Brass	125 psi	—	1VFE4	1
1½"	FNPT	Red Brass	125 psi	—	1VFE8	1

Hex Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅜" x ¼"	MNPT x FNPT	Red Brass	125 psi	—	1VFV7	1
½" x ¼"	MNPT x FNPT	Red Brass	125 psi	—	1VFX2	1
½" x ⅜"	MNPT x FNPT	Red Brass	125 psi	—	1VFX4	1
¾" x ¼"	MNPT x FNPT	Red Brass	125 psi	—	1VFX8	1
¾" x ½"	MNPT x FNPT	Red Brass	125 psi	—	1VFY3	1
1" x ½"	MNPT x FNPT	Red Brass	125 psi	—	1VFY9	1
1" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	1VFZ2	1
1¼" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	1VFZ4	1
1¼" x 1"	MNPT x FNPT	Red Brass	125 psi	—	1VFZ6	1
1½" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	1VFZ8	1
1½" x 1"	MNPT x FNPT	Red Brass	125 psi	—	1VGA1	1
1½" x 1¼"	MNPT x FNPT	Red Brass	125 psi	—	1VGA3	1
2" x ¾"	MNPT x FNPT	Red Brass	125 psi	—	1VGA5	1
2" x 1"	MNPT x FNPT	Red Brass	125 psi	—	1VGA7	1
2" x 1½"	MNPT x FNPT	Red Brass	125 psi	—	1VGB2	1
2½" x 2"	MNPT x FNPT	Red Brass	125 psi	—	1VGB4	1

Reducing Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾" x ½"	FNPT	Red Brass	125 psi	—	1VGD8	1
1" x ¾"	FNPT	Red Brass	125 psi	—	1VGE3	1
2" x 1½"	FNPT	Red Brass	125 psi	—	1VGF8	1
2½" x 2"	FNPT	Red Brass	125 psi	—	1VGG1	1

Square Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	MNPT	Red Brass	125 psi	—	1VFR3	1
¾"	MNPT	Red Brass	125 psi	—	1VFR5	1
1"	MNPT	Red Brass	125 psi	—	1VFR7	1
1½"	MNPT	Red Brass	125 psi	—	1VFT2	1

Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Red Brass	125 psi	—	1VEY8	1
⅜"	FNPT	Red Brass	125 psi	—	1VEZ1	1
½"	FNPT	Red Brass	125 psi	—	1VEZ3	1
¾"	FNPT	Red Brass	125 psi	—	1VEZ5	1
1"	FNPT	Red Brass	125 psi	—	1VEZ7	1
1¼"	FNPT	Red Brass	125 psi	—	1VEZ9	1
1½"	FNPT	Red Brass	125 psi	—	1VFA2	1
2"	FNPT	Red Brass	125 psi	—	1VFA4	1

Union

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	FNPT	Red Brass	125 psi	—	1VFK3	1
¾"	FNPT	Red Brass	125 psi	—	1VFK5	1
1"	FNPT	Red Brass	125 psi	—	1VFK7	1
1¼"	FNPT	Red Brass	125 psi	—	1VFK9	1
1½"	FNPT	Red Brass	125 psi	—	1VFL2	1
2"	FNPT	Red Brass	125 psi	—	1VFL4	1
2½"	FNPT	Red Brass	125 psi	—	1VFL6	1
3"	FNPT	Red Brass	125 psi	—	1VFL8	1

HIGH PRESSURE PRECISION: High-pressure (1000-3000 psi). Fittings are precision machined for leak-free connections between fittings and pipe. For use in aggressive and general industrial environments.

Low-Lead High Pressure Precision Pipe Fittings

45° Extruded Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT x FNPT	Brass	1,000 psi	—	46M432	1
¼"	MNPT x FNPT	Brass	1,000 psi	—	46M431	1

90° Extruded Female Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	1,000 psi	—	46M512	1
⅜"	FNPT	Brass	1,000 psi	—	46M511	1
¾"	FNPT	Brass	1,000 psi	—	46M510	1

90° Extruded Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT x FNPT	Brass	1,000 psi	—	46M467	1
¼"	MNPT x FNPT	Brass	1,000 psi	—	46M466	1
⅜"	MNPT x FNPT	Brass	1,000 psi	—	46M465	1
½"	MNPT x FNPT	Brass	1,000 psi	—	46M464	1

Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT x FNPT	Brass	1,000 psi	—	46M455	1
½"	FNPT x MNPT	Brass	1,000 psi	—	46M450	1

Cap

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾"	FNPT	Brass	1,200 psi	—	46M487	1
½"	FNPT	Brass	1,200 psi	—	46M488	1
⅜"	FNPT	Brass	1,200 psi	—	46M489	1
¼"	FNPT	Brass	1,200 psi	—	46M490	1

Countersink Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾"	MNPT	Brass	1,200 psi	—	46M468	1

Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	1,000 psi	—	46M501	1
¼"	FNPT	Brass	1,000 psi	—	46M499	1
⅜"	FNPT	Brass	1,000 psi	—	46M498	1
½"	FNPT	Brass	1,000 psi	—	46M497	1
¾"	FNPT	Brass	1,000 psi	—	46M496	1

Extruded Female Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	1,000 psi	—	46M508	1
⅜"	FNPT	Brass	1,000 psi	—	46M507	1
½"	FNPT	Brass	1,000 psi	—	46M506	1
¾"	FNPT	Brass	1,000 psi	—	46M505	1

Hex Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	1,000 psi	—	46M486	1
⅜" x ¼"	MNPT x FNPT	Brass	1,000 psi	—	46M484	1
⅜" x ⅛"	MNPT x FNPT	Brass	1,000 psi	—	46M485	1
½" x ⅜"	MNPT x FNPT	Brass	1,000 psi	—	46M482	1
½" x ¼"	MNPT x FNPT	Brass	1,000 psi	—	46M483	1
¾" x ½"	MNPT x FNPT	Brass	1,000 psi	—	46M480	1
¾" x ⅜"	MNPT x FNPT	Brass	1,000 psi	—	46M481	1

Hex Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¾"	MNPT	Brass	1,200 psi	—	46M444	1
½"	MNPT	Brass	1,200 psi	—	46M445	1
⅜"	MNPT	Brass	1,200 psi	—	46M446	1
¼"	MNPT	Brass	1,200 psi	—	46M447	1

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Threaded Brass & Bronze Pipe Fittings, Class 125 & High-Pressure

Parker

HIGH PRESSURE PRECISION: High-pressure (1000-3000 psi). Fittings are precision machined for leak-free connections between fittings and pipe. For use in aggressive and general industrial environments.

Low-Lead High Pressure Precision Pipe Fittings (Cont.)

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	1,000 psi	—	46M442	1
⅜"	MNPT	Brass	1,000 psi	—	46M441	1
½"	MNPT	Brass	1,000 psi	—	46M440	1
¾"	MNPT x FNPT	Brass	1,000 psi	—	46M439	1

Reducing Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT x MNPT	Brass	1,000 psi	—	46M456	1
⅜" x ¼"	FNPT x MNPT	Brass	1,000 psi	—	46M454	1
½" x ⅜"	FNPT x MNPT	Brass	1,000 psi	—	46M451	1
½" x ¼"	FNPT x MNPT	Brass	1,000 psi	—	46M452	1
¾" x ½"	FNPT x MNPT	Brass	1,000 psi	—	46M449	1

Reducing Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT x MNPT	Brass	1,000 psi	—	46M463	1
⅜" x ¼"	FNPT x MNPT	Brass	1,000 psi	—	46M461	1
½" x ¼"	FNPT x MNPT	Brass	1,000 psi	—	46M459	1
¾" x ½"	FNPT x MNPT	Brass	1,000 psi	—	46M458	1

Union

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	FNPT	Brass	1,000 psi	—	46M493	1
¾"	FNPT	Brass	1,000 psi	—	46M492	1

High Pressure Precision Pipe Fittings

45° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	1,000 psi	Parker	13Y901	1
½"	FNPT	Brass	1,000 psi	Parker	13Y899	1

45° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT x FNPT	Brass	—	—	6AYR8	10

90° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	—	—	6AYT2	1
¼"	MNPT	Brass	—	—	6AYT3	1
⅜"	MNPT	Brass	—	—	6AYT4	1

90° Extruded Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	—	—	6AYT6	10
⅛"	MNPT	Brass	1,000 psi	Parker	13Y887	1
¼"	MNPT	Brass	—	—	6AYT7	10
¼"	MNPT	Brass	1,000 psi	Parker	13Y888	1
⅜"	FNPT	Brass	—	—	6AYT8	10
⅜"	MNPT	Brass	1,000 psi	Parker	13Y886	1
½"	MNPT	Brass	1,000 psi	Parker	13Y890	1
½"	MNPT x FNPT	Brass	—	—	6AYT9	10
¾"	MNPT	Brass	—	—	6AYU0	1

90° Extruded Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT x FNPT	Brass	—	—	6AYU1	10
¼"	MNPT x FNPT	Brass	—	—	6AYU2	10
⅜"	MNPT x FNPT	Brass	—	—	6AYU3	10
½"	MNPT x FNPT	Brass	—	—	6AYU4	10
¾"	MNPT x FNPT	Brass	—	—	6AYU5	5

90° Forged Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	1,000 psi	Parker	13Y885	1

Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPTF x MNPTF	Brass	—	—	6AYX2	1
¼"	FNPTF x MNPTF	Brass	—	—	6AYX3	1
⅜"	FNPTF x MNPTF	Brass	—	—	6AYX4	1
½"	FNPTF x MNPTF	Brass	—	—	6AYX5	1

Anchor Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y865	1
¼"	FNPT x MUNF	Brass	—	—	6AZC1	1
¼"	FNPT x MUNF	Brass	—	—	6AZC2	1
¼"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y867	1
¼"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y868	1
⅜"	FNPT x MUNF	Brass	—	—	6AZC3	1
⅜"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y869	1
½"	FNPT x MUNF	Brass	—	—	6AZC4	1
½"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y870	1
⅝"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y866	1
¾"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y871	1
1"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y872	1

Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	—	—	6CTE6	10
¼"	FNPT	Brass	—	—	6CTE7	10
⅜"	FNPT	Brass	—	—	6CTE8	10
½"	FNPT	Brass	—	—	6CTE9	10
¾"	FNPT	Brass	—	—	6AYR0	5

Cross

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	—	—	6AYY8	1
¼"	FNPT	Brass	1,000 psi	Parker	13Y903	1
⅜"	FNPT	Brass	—	—	6AYY9	1
½"	FNPT	Brass	1,000 psi	Parker	13Y905	1

Extruded Street Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT x FNPT	Brass	—	—	6AYW0	10
¼"	FNPT x MNPT x FNPT	Brass	—	—	6AYW1	10
⅜"	FNPT x MNPT x FNPT	Brass	—	—	6AYW2	10
½"	FNPT x MNPT x FNPT	Brass	—	—	6AYW3	1

Extruded Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	—	—	6AYU6	10
⅛"	FNPT	Brass	1,000 psi	Parker	13Y894	1
¼"	FNPT	Brass	—	—	6AYU7	10
¼"	FNPT	Brass	1,000 psi	Parker	13Y895	1
⅜"	FNPT	Brass	—	—	6AYU8	10
⅜"	FNPT	Brass	1,000 psi	Parker	13Y896	1
½"	FNPT	Brass	—	—	6AYU9	10
½"	FNPT	Brass	1,000 psi	Parker	13Y897	1
¾"	FNPT	Brass	—	—	6AYV0	5
¾"	FNPT	Brass	1,000 psi	Parker	13Y898	1

Female Union Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	1,000 psi	Parker	13Y892	1
½"	FNPT	Brass	1,000 psi	Parker	13Y893	1

Hex Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	—	—	6AYW5	10
⅜" x ⅛"	MNPT x FNPT	Brass	—	—	6AYW6	1
⅜" x ¼"	MNPT x FNPT	Brass	—	—	6AYW7	10
½" x ¼"	MNPT x FNPT	Brass	—	—	6AYW8	10
½" x ⅜"	MNPT x FNPT	Brass	—	—	6AYW9	10
¾" x ⅜"	MNPT x FNPT	Brass	—	—	6AYX0	1
¾" x ½"	MNPT x FNPT	Brass	—	—	6AYX1	5

Hex Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT	Brass	1,000 psi	Parker	13Y873	1
¼"	FNPT	Brass	1,000 psi	Parker	13Y874	1
⅜"	FNPT	Brass	1,000 psi	Parker	13Y875	1
½"	FNPT	Brass	1,000 psi	Parker	13Y876	1
¾"	FNPT	Brass	1,000 psi	Parker	13Y877	1

Hex Head Cap

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	—	—	6AYZ3	1
⅜"	FNPT	Brass	—	—	6AYZ4	1
½"	FNPT	Brass	—	—	6AYZ5	1
¾"	FNPT	Brass	—	—	6AYZ6	1
¾"	FNPT	Brass	1,000 psi	Parker	13Y911	1

Hex Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	—	—	6AZA5	10
¼"	MNPT	Brass	—	—	6AZA6	10
⅜"	MNPT	Brass	—	—	6AZA7	10
½"	MNPT	Brass	—	—	6AZA8	10
¾"	MNPT	Brass	—	—	6AZA9	5

Hex Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	—	—	6AZD0	10
¼"	MNPT	Brass	—	—	6AZD1	10
⅜"	MNPT	Brass	—	—	6AZD2	10
½"	MNPT	Brass	—	—	6AZD3	10
¾"	MNPT	Brass	—	—	6AZD4	5

Hex Reducing Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT	Brass	—	—	6AZF1	10
⅜" x ¼"	MNPT	Brass	—	—	6AZF2	10
½" x ¼"	MNPT	Brass	—	—	6AZF3	1
½" x ⅜"	MNPT	Brass	—	—	6AZF4	10
¾" x ½"	MNPT	Brass	—	—	6AZF5	1

Locknut

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	—	—	6AZC6	1
⅛"	FNPT	Brass	1,000 psi	Parker	13Y878	1
½"	FNPT	Brass	1,000 psi	Parker	13Y881	1

Male Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	—	—	6AYV2	1
⅜"	MNPT	Brass	—	—	6AYV3	1
½"	MNPT	Brass	—	—	6AYV4	1
¾"	MNPT	Brass	—	—	6AYV5	1

Recessed Hex Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	—	—	6AYZ7	1
¼"	MNPT	Brass	—	—	6AYZ8	1
⅜"	MNPT	Brass	—	—	6AYZ9	1
½"	MNPT	Brass	—	—	6AZA0	1

Reducing Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPTF x MNPTF	Brass	—	—	6AYX6	10
⅜" x ⅛"	FNPTF x MNPTF	Brass	—	—	6AYX7	1
⅜" x ¼"	FNPTF x MNPTF	Brass	—	—	6AYX8	10
½" x ¼"	FNPTF x MNPTF	Brass	—	—	6AYX9	1
½" x ⅜"	FNPTF x MNPTF	Brass	—	—	6AYY0	10
¾" x ½"	FNPTF x MNPTF	Brass	—	—	6AYY1	1

Reducing Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT	Brass	—	—	6AYR1	10
¼" x ⅛"	FNPT	Brass	1,000 psi	Parker	13Y912	1
⅜" x ¼"	FNPT	Brass	—	—	6AYR3	10
⅜" x ¼"	FNPT	Brass	1,000 psi	Parker	13Y913	1
½" x ¼"	FNPT	Brass	—	—	6AYR5	10
½" x ⅜"	FNPT	Brass	—	—	6AYR6	10
½" x ¼"	FNPT	Brass	1,000 psi	Parker	13Y914	1
½" x ⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y915	1
¾" x ½"	FNPT	Brass	—	—	6AYR7	1
¾" x ½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y917	1

Union

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	—	—	6AYY3	1
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y882	1
⅜"	FNPT	Brass	—	—	6AYY4	1
½"	FNPT	Brass	—	—	6AYY5	1
¾"	FNPT	Brass	—	—	6AYY6	1

CONTINUED

CONTINUED

Threaded Brass & Bronze Pipe Fittings, Class 125 & High-Pressure

HIGH PRESSURE PRECISION WITH THREAD SEALANT: High-pressure precision (1000-3000 psi). Include sealant to create a secure fit between fittings, instrumentation, and pipe.

High Pressure Precision Pipe Fittings with Thread Sealant

45° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y851	1
⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y852	1

45° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y850	1
½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y853	1

90° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	1,000 psi	Parker	13Y836	1
⅜"	MNPT	Brass	1,000 psi	Parker	13Y837	1
½"	MNPT	Brass	1,000 psi	Parker	13Y838	1

90° Extruded Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y839	1
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y840	1
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y841	1
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y848	1
⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y843	1
⅜"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y842	1
½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y844	1
¾"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y845	1
¾"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y846	1

90° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y829	1
¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y830	1
⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y832	1
⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y833	1
½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y834	1

Countersink Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	1,000 psi	Parker	13Y812	1
¼"	MNPT	Brass	1,000 psi	Parker	13Y813	1
⅜"	MNPT	Brass	1,000 psi	Parker	13Y814	1
½"	MNPT	Brass	1,000 psi	Parker	13Y815	1
¾"	MNPT	Brass	1,000 psi	Parker	13Y816	1

Female x Male Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y817	1
⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y822	1

Female x Male Reducing Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y819	1
⅜" x ¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y821	1
½" x ¼"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y823	1
½" x ⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y824	1
½" x ½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y825	1
¾" x ⅜"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y826	1
¾" x ½"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y827	1
¾" x ¾"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y828	1

Hex Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	1,000 psi	Parker	13Y807	1
¼"	MNPT	Brass	1,000 psi	Parker	13Y808	1
⅜"	MNPT	Brass	1,000 psi	Parker	13Y809	1
½"	MNPT	Brass	1,000 psi	Parker	13Y810	1
¾"	MNPT	Brass	1,000 psi	Parker	13Y811	1

Hex Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	1,000 psi	Parker	13Y795	1
¼"	MNPT	Brass	1,000 psi	Parker	13Y796	1
⅜"	MNPT	Brass	1,000 psi	Parker	13Y798	1
½"	MNPT	Brass	1,000 psi	Parker	13Y802	1
¾"	MNPT	Brass	1,000 psi	Parker	13Y805	1

Male Branch Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x FNPT x MNPT	Brass	1,000 psi	Parker	13Y855	1
¼"	FNPT x FNPT x MNPT	Brass	1,000 psi	Parker	13Y856	1
⅜"	FNPT x FNPT x MNPT	Brass	1,000 psi	Parker	13Y857	1
½"	FNPT x FNPT x MNPT	Brass	1,000 psi	Parker	13Y858	1

Reducing Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y754	1
⅜" x ⅛"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y755	1
⅜" x ¼"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y756	1
½" x 1"	FNPT x MNPT	Brass	1,000 psi	Parker	13Y764	1
½" x ⅛"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y757	1
½" x ¼"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y758	1
½" x ⅜"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y759	1
¾" x ¼"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y760	1
¾" x ⅜"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y761	1
¾" x ½"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y762	1
¾" x 1"	MNPT x FNPT	Brass	1,000 psi	Parker	13Y763	1

Reducing Hex Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT	Brass	1,000 psi	Parker	13Y797	1
⅜" x ¼"	MNPT	Brass	1,000 psi	Parker	13Y801	1
½" x ¼"	MNPT	Brass	1,000 psi	Parker	13Y803	1
½" x ⅜"	MNPT	Brass	1,000 psi	Parker	13Y804	1
¾" x ½"	MNPT	Brass	1,000 psi	Parker	13Y806	1

Square Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	MNPT	Brass	1,000 psi	Parker	13Y765	1
¼"	MNPT	Brass	1,000 psi	Parker	13Y766	1
⅜"	MNPT	Brass	1,000 psi	Parker	13Y767	1
½"	MNPT	Brass	1,000 psi	Parker	13Y768	1
¾"	MNPT	Brass	1,000 psi	Parker	13Y769	1

Street Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
⅛"	FNPT x MNPT x FNPT	Brass	1,000 psi	Parker	13Y860	1
¼"	FNPT x MNPT x FNPT	Brass	1,000 psi	Parker	13Y861	1
⅜"	FNPT x MNPT x FNPT	Brass	1,000 psi	Parker	13Y862	1
½"	FNPT x MNPT x FNPT	Brass	1,000 psi	Parker	13Y863	1
¾"	FNPT x MNPT x FNPT	Brass	1,000 psi	Parker	13Y864	1

HIGH PRESSURE INSTRUMENTATION: High-pressure (1000-3000 psi). Connect with high-pressure (1000-3000 psi) pipe.

High Pressure Instrumentation Pipe Fittings

90° Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	3000 psi	Parker	1DGH4	1
¼"	MNPT	Brass	4,100 psi	Parker	1DGG4	1
⅜"	FNPT	Brass	2,700 psi	Parker	1DGH5	1
½"	FNPT	Brass	2,500 psi	Parker	1DGH6	1
½"	MNPT	Brass	3,100 psi	Parker	1DGG6	1

90° Reducing Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	2,900 psi	Parker	1DGJ5	1

90° Street Elbow

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT x FNPT	Brass	3000 psi	Parker	1DGJ6	1
⅜"	MNPT x FNPT	Brass	2,700 psi	Parker	1DGJ7	1
½"	MNPT x FNPT	Brass	2,500 psi	Parker	1DGJ8	1

Branch Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT x FNPT x MNPT	Brass	3000 psi	Parker	1DGN6	1
⅜"	FNPT x FNPT x MNPT	Brass	2,700 psi	Parker	1DGN7	1

Female Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	3000 psi	Parker	1DGK6	1
⅜"	FNPT	Brass	2,700 psi	Parker	1DGK7	1
½"	FNPT	Brass	2,500 psi	Parker	1DGK8	1

Hex Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Brass	4,300 psi	Parker	1DGC6	1
⅜"	FNPT	Brass	3,500 psi	Parker	1DGC8	1

Hex Head Cap

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT	Bright Brass	4,300 psi	Parker	1DGR5	1

Hex Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½"	MNPT	Bright Brass	3,900 psi	Parker	1DGT6	1
⅜"	MNPT	Bright Brass	4,000 psi	Parker	1DGT5	1
¼"	MNPT	Bright Brass	4,100 psi	Parker	1DGT4	1

Hex Long Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	4,100 psi	Parker	1DFW5	1

Hex Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	4,100 psi	Parker	1DGA6	1
⅜"	MNPT	Brass	4,000 psi	Parker	1DGA8	1
½"	MNPT	Brass	3,900 psi	Parker	1DGB2	1

Hex Reducing Coupling

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
½" x ¼"	FNPT	Brass	3,600 psi	Parker	1DGC9	1

Hollow Hex Head Plug

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	MNPT	Brass	4,100 psi	Parker	1DGU6	1
⅛"	MNPT	Bright Brass	5,600 psi	Parker	1DGU5	1

Reducing Adapter

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	FNPT x MNPT	Brass	4,300 psi	Parker	1DFY5	1
¼"	FNPT x MNPT	Brass	4,300 psi	Parker	1DFY5	1
⅜" x ¼"	FNPT x MNPT	Brass	3,500 psi	Parker	1DFY7	1

Reducing Bushing

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT x FNPT	Brass	3,600 psi	Parker	1DGE7	1
⅜" x ¼"	MNPT x FNPT	Brass	3000 psi	Parker	1DGE9	1
½" x ⅜"	MNPT x FNPT	Brass	2,800 psi	Parker	1DGF3	1
½" x ¼"	MNPT x FNPT	Brass	3,900 psi	Parker	1DGF2	1

Reducing Hex Nipple

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼" x ⅛"	MNPT	Brass	4,100 psi	Parker	1DGA5	1
⅜" x ¼"	MNPT	Brass	4,000 psi	Parker	1DGA7	1
½" x ¼"	MNPT	Brass	3,900 psi	Parker	1DGA9	1
½" x ⅜"	MNPT	Brass	3,900 psi	Parker	1DGB1	1

Street Tee

Fitting Pipe Size	Pipe Fitting Conn. Type	Pipe Fitting Material & Finish	Max. Oper. Press.	Brand	Item No.	Pkg. Qty.
¼"	FNPT x MNPT x FNPT	Brass	3000 psi	Parker	1DGL6	1
⅜"	FNPT x MNPT x FNPT	Brass	2,700 psi	Parker	1DGL7	1
½"	FNPT x MNPT x FNPT	Brass	2,500 psi	Parker	1DGL8	1

Threaded Brass & Bronze Pipe Fitting Kits

- Max. operating pressure: 1200 psi
- Temp. range: -65° to 250°F
- Standards: ASA; ASME; SAE

Meet SAE, ASME, and ASA.

6AZF6

Description	Kit Includes	Item No.
42-Pc. Kit	(3) ½ in Close Nipple, (3) ½ in Coupling, (3) ½ in Female Tee, (3) ½ in Hex Nipple, (3) ½ in Hex Plug, (3) ½ in Street Elbow, (3) ½ x ⅜ in Bushing, (3) ½ x ⅜ in Reducer, (3) ⅜ in Close Nipple, (3) ⅜ in Coupling, (3) ⅜ in Female Tee, (3) ⅜ in Hex Nipple, (3) ⅜ in Hex Plug, (3) ⅜ in Street Elbow	6AZF8
70-Pc. Kit	(5) ½ x ⅜ in Bushing, (5) ¼ in 45 Degree Street Elbow, (5) ¼ in Close Nipple, (5) ¼ in Coupling, (5) ¼ in Female Elbow, (5) ¼ in Female Tee, (5) ¼ in Hex Nipple, (5) ¼ in Hex Plug, (5) ¼ in Street Elbow, (5) ¼ x ⅛ in Bushing, (5) ¼ x ⅛ in Coupling, (5) ¼ x ⅛ in Hex Nipple, (5) ¼ x ⅛ in Reducer, (5) ⅜ x ¼ in Bushing	6AZF6
111-Pc. Kit	(10)3/8 in Hex Nipple, (10) ½ in Close Nipple, (10) ½ in Hex Nipple, (10) ½ in Hex Plug, (10) ½ x ⅜ in Bushing, (10) ½ x ⅜ in Reducer, (10) ⅜ in Close Nipple, (10) ⅜ in Coupling, (10) ⅜ in Hex Plug, (3) ½ in Female Tee, (3) ⅜ in Female Tee, (5) ½ in Coupling, (5) ½ in Street Elbow, (5) ⅜ in Street Elbow	6AZF9
140-Pc. Kit	(10) ½ x ⅜ in Bushing, (10) ¼ in 45 Degree Street Elbow, (10) ¼ in Close Nipple, (10) ¼ in Coupling, (10) ¼ in Female Elbow, (10) ¼ in Female Tee, (10) ¼ in Hex Nipple, (10) ¼ in Hex Plug, (10) ¼ in Stree Elbow, (10) ¼ x ⅛ in Bushing, (10) ¼ x ⅛ in Coupling, (10) ¼ x ⅛ in Hex Nipple, (10) ¼ x ⅛ in Reducer, (10) ⅜ x ¼ in Bushing	6AZF7

Compression Brass Pipe Fittings

- Rubber seal

Fittings temporarily repair two new or existing pipelines to transport air, drinking water, flammable gases, slurries, and chemicals in residential and industrial plumbing applications. They include an outer compression nut and an inner compression ring or ferrule (sometimes called an olive), usually made from brass or copper. Ferrules vary in shape, but most commonly are the shape of a ring with beveled edges. Brass, an alloy of copper and zinc, is strong, highly conductive, maintains machineability at high temperatures, and resists corrosion from water, heat, acids, minerals, and peaty soils. It is also compatible with stainless steel, copper, or zinc piping.

21TF15

Fitting Pipe Size	Overall Length	Item No.
¾" x ½"	3 21⁄25"	21TF18
¾" x ¾"	3 49⁄50"	21TF15
1" x 1"	3 93⁄100"	21TF16
1¼" x 1¼"	3 93⁄100"	21TF17

Brass & Bronze Pipe Flanges

- Pipe fitting material: red brass
- Maximum operating pressure: 125 psi
- FNPT connection

Flanges connect with pipe and fittings to form a piping system that transports air, flammable gases, slurries, and chemicals in plumbing applications. Flanges allow breaks in pipelines to make valve, pump, and other replacements. Brass, an alloy of copper and zinc, is compatible with stainless steel, copper, or zinc piping. It is strong, highly conductive, maintains machineability at high temperatures, and resists corrosion from water, heat, acids, minerals, and peaty soils. Bronze, also known as red brass, is a metal alloy of copper and tin and resists corrosion from saltwater and has higher heat and electric conductivity than most metals.

4TJJ7

Pipe Size	Flange Outside Diameter	Overall Length	Class	No. of Bolt Holes	Item No.
½"	1 3⁄16"	3½"	Class 125	4	4TJJ7
1"	1 5⁄16"	4¼"	Class 125	4	4TJJ9
1¼"	1⅝"	4⅝"	Class 125	4	4TJK1
1½"	1 3⁄16"	5"	Class 125	4	4TJK2
2"	2⅜"	6"	Class 125	4	4TJK3

MUELLER STREAMLINE NIBCO

Wrot Copper Fittings

- Max. pressure, ⅛" to 1⅛" O.D.: 500 psi
- Max. pressure, 1¼" to 2⅛" O.D.: 364 psi
- Max. pressure, 2⅜" to 3⅛" O.D.: 317 psi
- Max. pressure, 4" to 4⅛" O.D.: 293 psi
- Temp. range: -20° to 400°F

99.9% pure copper, seamless tubing forms a permanent, leaktight connection and resists corrosion and scaling. Ideal for drinking water, air conditioning, and refrigeration applications. For a complete list of standards and specifications, go to Grainger.com® and search for individual products. C = Female Solder Cup.

Description	Tube Size	Outside Dia.	Item No.
45° Elbows			
C x C			
	⅛ in	¼ in	1VLX7
	¼ in	⅜ in	5P036
	⅜ in	½ in	5P037
	½ in	⅝ in	5P038
	⅝ in	¾ in	5P039
	¾ in	⅞ in	5P040
	1 in	1⅛ in	5P041
	1¼ in	1⅜ in	5P042
	1½ in	1⅝ in	5P043
	2 in	2⅛ in	5P044
	2½ in	2⅝ in	1VLX8
	3 in	3⅛ in	1VLX9
	4 in	4⅛ in	1VLY1
	6 in	6⅛ in	39R747
FTG x C			
	¼ in	⅜ in	1VLY2
	⅜ in	½ in	1VLY3
	½ in	⅝ in	5P045
	⅝ in	¾ in	1VLY4
	¾ in	⅞ in	5P046
	1 in	1⅛ in	5P047
	1¼ in	1⅜ in	1VLY5
	1½ in	1⅝ in	1VLY6
	2 in	2⅛ in	1VLY7
	2½ in	2⅝ in	1VLY8
	3 in	3⅛ in	1VLY9

† Mueller Streamline brand.

Description	Tube Size	Outside Dia.	Item No.
90° Elbows			
C x C			
	½ in	⅝ in	1VMB1
	2½ in	2⅝ in	1VMB3
	3 in	3⅛ in	1VMA3
	4 in	4⅛ in	1VMA4
90° Elbows—Close Rough			
	⅛ in	¼ in	5P048
	¼ in	⅜ in	5P049
	⅜ in	½ in	5P050
	½ in	⅝ in	5P051
	¾ in	⅞ in	5P053
	1 in	1⅛ in	5P054
	1¼ in	1⅜ in	5P055
	1½ in	1⅝ in	5P056
	2 in	2⅛ in	5P057
	2½ in	2⅝ in	5P058
	3½ in	3⅝ in	39R719
	5 in	5⅛ in	39R711
	6 in	6⅛ in	39R680
FTG x C			
	¼ in	⅜ in	5P062
	⅜ in	½ in	5P063
	½ in	⅝ in	5P064
	¾ in	⅞ in	5P065
	1 in	1⅛ in	5P066
	1¼ in	1⅜ in	5P067
	1½ in	1⅝ in	1VMA6
	2 in	2⅛ in	1VMA7
	2½ in	2⅝ in	1VMA8
	3 in	3⅛ in	1VMA9
	4 in	4⅛ in	39R704
FTG x FTG			
	½ in	⅝ in	39R590
	¾ in	⅞ in	39R576
	1 in	1⅛ in	39R714
	1¼ in	1⅜ in	39R726
	1½ in	1⅝ in	39R727
	2 in	2⅛ in	39R745
90° Elbows—Intermediate Radius			
C x C			
	½ in	⅝ in	5P079
	⅝ in	¾ in	5P080
	¾ in	⅞ in	5P081
	1 in	1⅛ in	5P082
FTG x C			
	½ in	⅝ in	5P068
	⅝ in	¾ in	5P069
	¾ in	⅞ in	5P070
	1 in	1⅛ in	5P071

Description	Tube Size	Outside Dia.	Item No.
90° Elbows—Long Radius			
C x C			
	⅛ in	¼ in	5P083
	3⁄16 in	3⁄16 in	39R697
	¼ in	⅜ in	5P084
	5⁄16 in	5⁄16 in	5P085
	⅜ in	½ in	5P086
	⅝ in	¾ in	5P088
	¾ in	⅞ in	5P089
	⅞ in	1 1⁄16 in	39R608
	1 in	1⅛ in	5P090
	1¼ in	1⅜ in	5P091
	1½ in	1⅝ in	5P092
	2 in	2⅛ in	5P093
	2 in	2⅛ in	39R585
	3 in	3⅛ in	39R593
	4 in	4⅛ in	39R752
FTG x C			
	⅛ in	¼ in	1VMB5
	¼ in	⅜ in	5P072
	⅜ in	½ in	1VMB6
	½ in	⅝ in	5P074
	⅝ in	¾ in	5P075
	¾ in	⅞ in	5P076
	1 in	1⅛ in	1VMB7
	1¼ in	1⅜ in	5P078
	1½ in	1⅝ in	1VMB8
	2 in	2⅛ in	1VMB9
	2½ in	2⅝ in	1VMC1
	3 in	3⅛ in	1VMC2
FTG x FTG			
	¼ in	⅜ in	39R620
	⅜ in	½ in	39R592
	½ in	⅝ in	39R595
	⅝ in	¾ in	39R596
	¾ in	⅞ in	39R607
	1 in	1⅛ in	39R677
	1¼ in	1⅜ in	39R652
	1½ in	1⅝ in	39R742

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CONTINUED

Wrot Copper Fittings

MUELLER STREAMLINE NIBCO

Description	Tube Size	Outside Dia.	Item No.
Adapter			
C x FNPT			
	⅛"	¼"	1VLR6
	¼"	⅜"	1VLR8
	⅜"	½"	1VLT1
	½"	⅝"	5P015
	¾"	⅞"	5P018
	1"	1⅛"	5P019
	1"	1⅛"	39R577
	1¼"	1⅜"	5P020
	1¼"	1⅜"	39R670
	1½"	1⅝"	5P021
	1½"	1⅝"	39R570
	2"	2⅛"	1VLU5
	2"	2⅛" x 2"	39R567
	2½"	2⅝"	1VLU7
	3"	3⅛"	1VLU8
C x MNPT			
	¼"	⅜" x ¼"	1VLV1
	¼"	⅜" x ½"	39R713
	⅜"	½" x ⅜"	1VLV2
	⅜"	½" x ¼"	39R709
	½"	⅝" x ½"	1VLV5
	¾"	⅞" x ¾"	1VLW1
	1"	1⅛" x 1"	1VLW2
	1"	1⅛" x ½"	39R612
	1¼"	1⅜" x 1¼"	1VLW6
	1¼"	1⅜" x 1¼"	39R633
	1½"	1⅝" x 1½"	1VLW9
	2"	2⅛" x 2"	5P035
	2½"	2⅝" x 2½"	1VLX5
	3"	3⅛" x 3"	1VLX6
C x SJ			
	1¼"	1⅜"	39R548
	1½"	1⅝"	39R504
	1½" x 1¼"	1⅝" x 1⅜"	39R551
C x SPG			
	2"	2⅛"	39R609
FTG x FNPT			
	¼"	⅜"	39R669
	⅜"	½"	5P022
	½"	⅝"	5P023
	½"	⅝ x ½"	39R559
	¾"	⅞"	5P024
	1"	1⅛"	39R529
	1¼"	1⅜"	39R606
	1½"	1⅝"	39R617
	2"	2⅛"	39R627
FTG x MNPT			
	¼"	⅜"	39R720
	⅜"	½" x ⅜"	39R643
	½"	⅝" x ⅜"	39R572
	½"	⅝" x ½"	39R506
	¾"	⅞ x ¾"	39R507
	1"	1⅛" x 1"	39R561
FTG x SJ			
	1½"	1⅝" x 1⅝"	39R541
	1½" x 1¼"	1⅝" x 1⅜"	39R691
F x SJ			
	1½"	1⅝"	39R682
MNPT x SJ			
	1¼"	1½" x 1⅜"	39R730
	1½"	1½" x 1⅝"	39R571
Air Chamber / Stub Out			
FTG			
	½" x 6"	⅝"	39R647
	½" x 8"	⅝"	39R634
	½" x 12"	⅝"	39R735
	½" x 12"	⅝"	39R751
Bullhead Tee (run x run x outlet)			
C x C x C			
	⅛" x ⅛" x ¼"	¼" x ¼" x ⅜"	39R523
	¼" x ¼" x ⅜"	⅜" x ⅜" x ½"	39R574
	¼" x ¼" x ½"	⅜" x ⅜" x ⅝"	39R678
	5/16" x 5/16" x ¼"	7/16" x 7/16" x ⅜"	39R591
	⅜" x ⅜" x ½"	½" x ½" x ⅝"	39R538
	½" x ½" x ⅝"	⅝" x ⅝" x ¾"	39R721
	½" x ½" x 1"	⅝" x ⅝" x 1⅛"	39R722
	⅝" x ⅝" x ¾"	¾" x ¾" x ⅞"	39R660
	1" x 1" x 1¼"	1⅛" x 1⅛" x 1⅜"	39R603
	1" x 1" x 1½"	1⅛" x 1⅛" x 1⅝"	39R631
	1¼" x 1¼" x 1½"	1⅜" x 1⅜" x 1⅝"	39R556
	1½" x 1½" x 2"	1⅝" x 1⅝" x 2⅛"	39R635
	2" x 2" x 2½"	2⅛" x 2⅛" x 2⅝"	39R676

† Mueller Streamline brand.

Description	Tube Size	Outside Dia.	Item No.
Cap			
C			
	⅛"	¼"	39R527
	¼"	⅜"	39R498
	⅜"	½"	39R521
	½"	⅝"	5P121
	⅝"	¾"	39R511
	¾"	⅞"	5P122
	1"	1⅛"	5P123
	1¼"	1⅜"	5P124
	1½"	1⅝"	5P125
	2"	2⅛"	5P126
	2½"	2⅝"	1VMG6
	3"	3⅛"	1VMG7
	4"	4⅛"	1VMG8
C x C			
	¼"	⅜"	5UGE7 †
	⅜"	½"	5UGE8 †
Coupling, Dimple Stop			
C x C			
	⅛"	¼"	5UGG0 †
	3/16"	5/16"	5UGA2 †
	¼"	⅜"	5UGA3 †
	⅜"	½"	5UGA4 †
	½"	⅝"	5UFZ9 †
	⅝"	¾"	5UGG1 †
	¾"	⅞"	5UGA0 †
	1"	1⅛"	1VLH5
	1¼"	1⅜"	1VLH8
	1½"	1⅝"	1VLJ2
	2"	2⅛"	1VLJ6
	2½"	2⅝"	1VLK3
	3"	3⅛"	1VLK6
	4"	4⅛"	1VLL1
Coupling, Rolled Tube Stop			
C x C			
	⅛"	¼"	5P170
	3/16"	5/16"	5P171
	¼"	⅜"	5P172
	5/16"	7/16"	5P173
	⅜"	½"	5P174
	½"	⅝"	5P175
	¾"	⅞"	5P177
	3"	3⅛"	1VLK7
	4"	4⅛"	1VLL2
Coupling without Stop			
C x C			
	¼"	⅜"	1VLP8
	⅜"	½"	1VLP9
	½"	⅝"	5P207
	⅝"	¾"	39R656
	¾"	⅞"	5P208
	1"	1⅛"	5P209
	1¼"	1⅜"	1VLR1
	1½"	1⅝"	1VLR2
	1½"	1⅝"	39R693
	2"	2"	1VLR3
	2"	2⅛"	39R666
	2½"	2⅝"	1VLR4
	3"	3⅛"	1VLR5
	4"	4⅛"	39R692
Coupling with Stop, Rolled Tube Stop			
C x C			
	⅛"	¼"	39R513
	3/16"	5/16"	39R619
	¼"	7/16"	39R491
	5/16"	7/16"	39R544
	½"	⅝"	39R489
	⅝"	¾"	39R493
	¾"	⅞"	39R490
	⅞"	1"	39R550
	1"	1⅛"	39R492
	1¼"	1⅜"	39R501
	1½"	1⅝"	39R509
	2"	2⅛"	39R516
	2"	2⅛"	39R531
	2½"	2⅝"	39R615
	3"	3⅛"	39R690
	3½"	3⅝"	39R694
	6"	6⅛"	39R698
Flush Bushings			
FTG x C			
	¼" x ⅛"	⅜" x ¼"	1VMG9
	⅜" x ¼"	½" x ⅜"	1VMH1
	½" x ¼"	⅝" x ⅜"	1VMH2
	½" x ⅜"	⅝" x ½"	1VMH3
	⅝" x ½"	¾" x ⅝"	1VMH4
	¾" x ½"	⅞" x ⅝"	1VMH7
	¾" x ⅝"	⅞" x ¾"	1VMH6
	1" x ½"	1⅛" x ⅝"	1VMH5
	1" x ¾"	1⅛" x ⅞"	1VMH8
	1¼" x 1"	1⅜" x 1⅛"	1VMH9
	1½" x 1¼"	1⅝" x 1⅜"	1VMJ1
	2" x 1½"	2⅛" x 1⅝"	1VMJ2
Plug			
FTG			
	½"	⅝"	39R695
	¾"	⅞"	39R731

Description	Tube Size	Outside Dia.	Item No.
Return Bend			
C x C			
	⅛"	¼ x ⅛"	39R723
	¼"	⅜ x 1⅜"	39R616
	¼" x 1½"	⅜" x 1⅝"-(1½"-C-to-C)	39R739
	⅜"	½"	5P137
	½"	⅝"	5P138
	¾"	⅞"	5P139
	1"	1⅛"	5P140
	1¼"	1⅜"-(4"-C-to-C)	39R743
	1½"	1⅝"-(4½"-C-to-C)	39R754
	2"	2⅛"-(5½"-C-to-C)	39R712
Suction Line P-Trap			
C x C			
	½"	⅝"	5P141
	⅝"	¾"	5P142
	¾"	⅞"	5P143
	1"	1⅛"	5UGG7 †
	1"	1⅛"	39R626
	1¼"	1⅜"	5P145
	1½"	1⅝"	39R728
Tee			
C x C			
	⅛"	¼"	5P094
	¼"	5/16"	5UGG5 †
	¼"	⅜"	5P095
	⅜"	½"	5P097
	⅝"	¾"	5UGD8 †
C x C x C			
	3/16"	5/16"	39R642
	5/16"	7/16"	39R496
	½"	⅝"	5P098
	⅝"	¾"	39R568
	¾"	⅞"	5P103
	⅞"	1"	39R684
	1"	1⅛"	5P109
	1¼"	1⅜"	5P113
	1½"	1⅝"	5P117
	2"	2⅛"	39R499
	2½"	2⅝"	1VMD9
	3"	3⅛"	1VME5
	4"	4⅛"	1VMG2
C x FTG x C			
	½"	⅝" x ½" x ⅝"	39R542
	¾"	⅞"	39R594
Test Cap			
C			
	½"	⅝"	39R549
	1"	1⅛"	39R582
	1¼"	1⅜"	39R581
	1½"	1⅝"	39R503
	2"	2⅛"	39R565
Union			
C x C			
	¼"	⅜"	1WLJ5
	⅜"	½"	1WLJ6
	½"	⅝"	1WLJ7
	¾"	⅞"	1WLJ8
	1"	1⅛"	1WLJ9
Venturi			
FTG			
	¾"	⅞"	39R715

Description	Rod Size	Item No.
Tube Strap		
	⅝ in	39R584
	2 in	39R533

Description	Tube Size	Outside Dia.	Item No.
Reducing Tee (run x run x outlet)			
C x C			
	¼" x ¼" x ⅛"	⅜" x ⅜" x ¼"	5UGA5 †
	⅜" x ¼" x ¼"	½" x ⅜" x ⅜"	5UGD4 †
	⅜" x ⅜" x ⅛"	½" x ½" x ¼"	5UGG6 †
	⅜" x ⅜" x ¼"	½" x ½" x ⅜"	5UGA1 †
	½" x ½" x ⅛"	⅝" x ⅝" x ¼"	5UGD7 †
	½" x ½" x ¼"	⅝" x ⅝" x ⅜"	5UGD6 †
	½" x ½" x ⅜"	⅝" x ⅝" x ½"	5UGD5 †
	¾" x ½" x ⅜"	⅞" x ⅝" x ½"	5UGE0 †
	¾" x ¾" x ⅜"	⅞" x ⅞" x ½"	5UGD9 †
	1" x ¾" x ½"	1⅛" x ⅞" x ⅝"	5UGE1 †
	1¼" x 1" x ½"	1⅜" x 1⅛" x ⅝"	5UGE4 †
	1½" x 1½" x 1"	1⅝" x 1⅝" x 1⅛"	5UGE5 †
	1½" x 1½" x ¾"	1⅝" x 1⅝" x ⅞"	5UGE6 †
	2" x 2" x ½"	2⅛" x 2⅛" x ⅝"	5UGG4 †
	2" x 2" x 1¼"	2⅛" x 2⅛" x 1⅜"	5UGG3 †
	2" x 2" x 1½"	2⅛" x 2⅛" x 1⅝"	5UGG2 †
C x C x C			
	⅛" x ⅛" x 3/16"	¼" x ¼" x 5/16"	39R629
	¼" x ⅛" x ⅛"	⅜" x ¼" x ¼"	39R518
	¼" x ⅛" x ¼"	⅜" x ¼" x ⅜"	1VMC3
	¼" x ¼" x ⅛"	⅜" x ⅜" x ¼"	39R497
	¼" x ¼" x 5/16"	⅜" x ⅜" x 7/16"	39R621
	¼" x 5/16" x ¼"	⅜" x 7/16" x ⅜"	39R651
	5/16" x ⅛" x ⅛"	7/16" x ¼" x ¼"	39R588
	5/16" x ⅛" x 5/16"	7/16" x ¼" x 7/16"	39R762
	5/16" x 5/16" x ⅛"	7/16" x 7/16" x ¼"	39R508
	⅜" x ⅛" x ⅜"	½" x ¼" x ½"	39R763
	⅜" x ¼" x ⅜"	½" x ⅜" x ½"	1VMC4
	⅜" x ¼" x ¼"	½" x ⅜" x ⅜"	39R536
	⅜" x ⅜" x ¼"	½" x ½" x ⅜"	39R502

CONTINUED

CONTINUED

Wrot Copper Fittings

MUELLER STREAMLINE NIBCO

90° Reducing Elbows—Close Rough

C x C

Tube Size	Outside Dia.	Item No.
⅜" x ¼"	½" x ⅜"	39R760
½" x ⅜"	⅝" x ½"	1VLZ1
⅝" x ⅜"	¾" x ½"	39R658
¾" x ½"	⅞" x ⅝"	1VLZ2
¾" x ⅝"	⅞" x ¾"	39R750
1" x ½"	1⅛" x ⅝"	1VLZ4
1" x ¾"	1⅛" x ⅞"	1VLZ3
1¼" x 1"	1⅜" x 1⅛"	1VLZ6
1½" x 1¼"	1⅝" x 1⅜"	1VLZ8
2" x 1½"	2⅛" x 1⅝"	1VMA1

90° Reducing Elbows—Long Radius

C x C

Tube Size	Outside Dia.	Item No.
¼" x ⅛"	⅜" x ¼"	39R738
½" x ¼"	⅝" x ⅜"	1VMB2
½" x ⅜"	⅝" x ½"	39R586
⅝" x ½"	¾" x ⅝"	39R761
¾" x ½"	⅞" x ⅝"	39R562
¾" x ⅝"	⅞" x ¾"	39R644
1" x ¾"	1⅛" x ⅞"	39R618
1" x ⅝"	1⅛" x ¾"	39R707
1¼" x 1"	1⅜" x 1⅛"	39R636

90° Reducing Elbows—Short Radius

C x C

Tube Size	Outside Dia.	Item No.
½" x ⅜"	⅝" x ½"	5P059

Reducer Couplings

C x C

Tube Size	Outside Dia.	Item No.
¼" x 3/16"	¼" x 3/16"	5UGC0 †
¼" x ⅛"	⅜" x ¼"	5P183
¼" x 5/16"	⅜" x 7/16"	5P184
5/16" x ⅛"	7/16" x ¼"	39R628
⅜" x ⅛"	½" x ¼"	5UGC1 †
⅜" x ⅛"	½" x ¼"	39R630
⅜" x ¼"	½" x ⅜"	5P185
½" x ⅛"	⅝" x ¼"	1VLG7
½" x ¼"	⅝" x ⅜"	5P186
½" x ⅜"	⅝" x ½"	5P187
⅝" x ¼"	¾" x ⅜"	1VLH1
⅝" x ½"	¾" x ⅝"	5P188
⅝" x ⅜"	¾" x ½"	1VLG9
¾" x ¼"	⅞" x ⅜"	1VLH4
¾" x ⅜"	⅞" x ½"	1VLH3
¾" x ½"	⅞" x ⅝"	5P189
¾" x ⅝"	⅞" x ¾"	5P190
1" x ⅜"	1⅛" x ½"	39R622
1" x ½"	1⅛" x ⅝"	5P191
1" x ⅝"	1⅛" x ¾"	1VLH7
1" x ¾"	1⅛" x ⅞"	5P192
1¼" x ½"	1⅜" x ⅝"	39R573
1¼" x ⅝"	1⅜" x ¾"	39R657
1¼" x ¾"	1⅜" x ⅞"	5P193
1¼" x 1"	1⅜" x 1⅛"	5P194
1½" x ½"	1⅝" x ⅝"	39R583
1½" x ¾"	1⅝" x ⅞"	39R532
1½" x ¾"	1⅝" x ⅞"	5UGC2 †
1½" x 1"	1⅝" x 1⅛"	1VLJ5
1½" x 1¼"	1⅝" x 1⅜"	1VLJ4
2" x ½"	2⅛" x ⅝"	1VLK2
2" x ¾"	2⅛" x ⅞"	39R578
2" x 1"	2⅛" x 1⅛"	1VLK1
2" x 1¼"	2⅛" x 1⅜"	1VLJ9
2" x 1½"	2⅛" x 1⅝"	1VLJ8
2½" x 1"	2⅝" x 1⅛"	39R683
2½" x 1¼"	2⅝" x 1⅜"	39R716
2½" x 1½"	2⅝" x 1⅝"	39R611
2½" x 2"	2⅝" x 2⅛"	1VLK5
3" x 1½"	3⅛" x 1⅝"	39R649
3" x 2"	3⅛" x 2⅛"	1VLK9
3" x 2½"	3⅛" x 2⅝"	1VLK8
4" x 2"	4⅛" x 2⅛"	1VLL5
4" x 2½"	4⅛" x 2⅝"	1VLL4
4" x 3"	4⅛" x 3⅛"	1VLL3

FTG x C

Tube Size	Outside Dia.	Item No.
⅝" x ⅜"	¾" x ½"	39R557
1½" x ½"	1⅝" x ⅝"	39R569
1½" x ¾"	1⅝" x ⅞"	39R520
2" x ¾"	2⅛" x ⅞"	39R552
2½" x 1"	2⅝" x 1⅛"	39R659
2½" x 1¼"	2⅝" x 1⅜"	39R662
2½" x 1½"	2⅝" x 1⅝"	39R614
3" x 1¼"	3⅛" x 1⅜"	39R734
3" x 1½"	3⅛" x 1⅝"	39R653
3½" x 3"	3⅝" x 3⅛"	39R758

Reducer Coupling with Stops, Rolled Tube Stop

C x C

Tube Size	Outside Dia.	Item No.
1¼"	1⅜"	39R640
1½"	1⅝"	39R526
2" x 1½"	2⅛" x 1⅝"	39R623

Reducer Fittings

FTG x C

Tube Size	Outside Dia.	Item No.
¼" x ⅛"	⅜" x ¼"	5P195
⅜" x ⅛"	½" x ¼"	1VLL7
⅜" x ¼"	½" x ⅜"	5P196
½" x ¼"	⅝" x ⅜"	5P197
½" x ⅜"	⅝" x ½"	5P198
⅝" x ¼"	¾" x ⅜"	1VLL8

Tube Size	Outside Dia.	Item No.
⅝" x ½"	¾" x ⅝"	5P199
¾" x ¼"	⅞" x ⅜"	1VLN1
¾" x ⅜"	⅞" x ½"	1VLL9
¾" x ½"	⅞" x ⅝"	5P200
¾" x ⅝"	⅞" x ¾"	5P201
1" x ½"	1⅛" x ⅝"	5P202
1" x ⅝"	1⅛" x ¾"	1VLN2
1" x ¾"	1⅛" x ⅞"	5P203
1¼" x ½"	1⅜" x ⅝"	1VLN4
1¼" x ¾"	1⅜" x ⅞"	1VLN3
1¼" x 1"	1⅜" x 1⅛"	5P204
1½" x 1"	1⅝" x 1⅛"	5P205
1½" x 1¼"	1⅝" x 1⅜"	5P206
2" x ½"	2⅛" x ⅝"	1VLP1
2" x 1"	2⅛" x 1⅛"	1VLN9
2" x 1¼"	2⅛" x 1⅜"	1VLN8
2" x 1½"	2⅛" x 1⅝"	1VLN7
2½" x 2"	2⅝" x 2⅛"	1VLP2
3" x 2"	3⅛" x 2⅛"	1VLP4
3" x 2½"	3⅛" x 2⅝"	1VLP3
4" x 2"	4⅛" x 2⅛"	1VLP7
4" x 2½"	4⅛" x 2⅝"	1VLP6
4" x 3"	4⅛" x 3⅛"	1VLP5

Reducer Flush Bushings

C x FTG

Tube Size	Outside Dia.	Item No.
1½" x 1¼"	1⅝" x 1⅜"	39R756
2" x 1½"	2⅛" x 1⅝"	39R601

FTG x FNPT

Tube Size	Outside Dia.	Item No.
½"	⅝" x ⅜"	39R512
½"	⅝" x ¼"	39R522

Reducing Adapter

C x C

Tube Size	Outside Dia.	Item No.
1½" x ¾"	1⅝" x ⅞"	5UGC5 †

C x FNPT

Tube Size	Outside Dia.	Item No.
⅛"	¼"	1VLR7
¼"	⅜"	1VLR9
⅜"	½" x ⅜"	1VLT3
⅜"	½" x ⅝"	1VLT2
½"	⅝" x ⅜"	5P014
½"	⅝" x ½"	5P210
½"	⅝" x ⅞"	5P016
⅝"	¾" x ⅝"	1VLT5
⅝"	¾" x ⅞"	1VLT4
¾"	⅞" x ⅝"	5P017
¾"	⅞"	1VLT6
1"	1⅛"	1VLT8
1"	1⅛"	1VLT9
1¼"	1⅜"	1VLU1
1¼"	1⅜"	1VLU2
1½"	1⅝"	1VLU3
1½"	1⅝"	1VLU4
2"	2⅛"	1VLU6

C x FTG

Tube Size	Outside Dia.	Item No.
⅝" x ⅜"	¾" x ½"	5UGC3 †
1" x ⅜"	1⅛" x ½"	5UGC4 †

C x MNPT

Tube Size	Outside Dia.	Item No.
⅛"	¼" x ¼"	1VLU9
⅜"	½" x ½"	1VLV4
⅜"	½" x ¾"	1VLV3
½"	⅝" x ¼"	1VLV7
½"	⅝" x ⅜"	5P027
½"	⅝" x ¾"	5P028
½"	⅝" x 1"	1VLV6
⅝"	¾" x ½"	1VLV9
⅝"	¾" x ¾"	1VLV8
¾"	⅞" x ½"	5P029
¾"	⅞" x 1"	5P031
1"	1⅛" x ¾"	1VLW5
1"	1⅛" x 1¼"	1VLW3
1"	1⅛" x 1½"	1VLW4
1¼"	1⅜" x 1"	1VLW8
1¼"	1⅜" x 1½"	1VLW7
1½"	1⅝" x 1"	1VLX1
1½"	1⅝" x 1¼"	1VLX2
1½"	1⅝" x 2"	1VLX3
2"	2⅛" x 1½"	1VLX4

Reducing Tee (run x run x outlet)

C x C x C

Tube Size	Outside Dia.	Item No.
⅜" x ⅜" x ⅛"	½" x ½" x ¼"	39R515
⅜" x ⅜" x 5/16"	½" x ½" x 7/16"	39R744
½" x ¼" x ⅜"	⅝" x ⅜" x ½"	39R764
½" x ⅜" x ⅜"	⅝" x ½" x ½"	39R563
½" x ⅜" x ½"	⅝" x ½" x ⅝"	1VMC5
½" x ⅜" x ¼"	⅝" x ½" x ⅜"	39R710
½" x ½" x ¾"	⅝" x ⅝" x ⅞"	5P099
½" x ½" x ¼"	⅝" x ⅝" x ⅜"	39R519
½" x ½" x ⅜"	⅝" x ⅝" x ½"	39R528
½" x ½" x ⅛"	⅝" x ⅝" x ¼"	39R579
⅝" x ½" x ½"	¾" x ⅝" x ⅝"	39R703
⅝" x ⅝" x ½"	¾" x ¾" x ½"	39R663
⅝" x ⅝" x ¼"	¾" x ¾" x ⅜"	39R702
⅝" x ⅝" x ⅜"	¾" x ¾" x ½"	39R610
¾" x ⅜" x ¾"	⅞" x ½" x ⅞"	39R706

Tube Size	Outside Dia.	Item No.
¾" x ⅜" x ⅜"	⅞" x ½" x ½"	39R757
¾" x ½" x ½"	⅞" x ⅝" x ⅝"	5P100
¾" x ⅝" x ⅝"	⅞" x ¾" x ¾"	39R740
¾" x ¾" x ⅜"	⅞" x ⅞" x ½"	39R539
¾" x ¾" x ⅛"	⅞" x ⅞" x ¼"	39R705
¾" x ¾" x ¼"	⅞" x ⅞" x ⅜"	39R589
¾" x ¾" x ½"	⅞" x ⅞" x ⅝"	5P102
¾" x ¾" x ⅝"	⅞" x ⅞" x ¾"	39R674
¾" x ¾" x 1"	⅞" x ⅞" x 1⅛"	5P104
1" x ½" x ½"	1⅛" x ⅝" x ⅝"	39R613
1" x ½" x ¾"	1⅛" x ⅝" x ⅞"	39R632
1" x ½" x 1"	1⅛" x ⅝" x 1⅛"	1VMC7
1" x ¾" x ½"	1⅛" x ⅞" x ⅝"	39R546
1" x ¾" x ¾"	1⅛" x ⅞" x ⅞"	5P105
1" x ¾" x 1"	1⅛" x ⅞" x 1⅛"	5P106
1" x 1" x ¼"	1⅛" x 1⅛" x ⅜"	39R654
1" x 1" x ⅜"	1⅛" x 1⅛" x 1½"	39R718
1" x 1" x ½"	1⅛" x 1⅛" x ⅝"	5P107
1" x 1" x ¾"	1⅛" x 1⅛" x ⅞"	5P108
1" x 1" x ⅝"	1⅛" x 1⅛" x 1¾"	39R685
1¼" x ½" x 1¼"	1⅜" x ⅝" x 1⅜"	1VMD1
1¼" x ¾" x ½"	1⅜" x ⅞" x ⅝"	39R741
1¼" x ¾" x ¾"	1⅜" x ⅞" x ⅞"	39R564
1¼" x ¾" x 1"	1⅜" x ⅞" x 1⅛"	39R625
1¼" x ¾" x 1¼"	1⅜" x ⅞" x 1⅜"	1VMC9
1¼" x 1" x ½"	1⅜" x 1⅛" x ⅝"	39R598
1¼" x 1" x ¾"	1⅜" x 1⅛" x ⅞"	39R543
1¼" x 1" x 1"	1⅜" x 1⅛" x 1⅛"	39R525
1¼" x 1" x 1¼"	1⅜" x 1⅛" x 1⅜"	1VMC8
1¼" x 1¼" x ⅜"	1⅜" x 1⅜" x ½"	39R746
1¼" x 1¼" x ½"	1⅜" x 1⅜" x ⅝"	5P110
1¼" x 1¼" x ¾"	1⅜" x 1⅜" x ⅞"	5P111
1¼" x 1¼" x 1"	1⅜" x 1⅜" x 1⅛"	5P112
1½" x ¾" x ¾"	1⅝" x ⅞" x ⅞"	39R668
1½" x ¾" x 1"	1⅝" x ⅞" x 1⅛"	39R688
1½" x ¾" x 1¼"	1⅝" x ⅞" x 1⅜"	39R696
1½" x ¾" x 1½"	1⅝" x ⅞" x 1⅝"	1VMD4
1½" x 1" x ½"	1⅝" x 1⅛" x ⅝"	1VMD5
1½" x 1" x ¾"	1⅝" x 1⅛" x ⅞"	39R638
1½" x 1" x 1"	1⅝" x 1⅛" x 1⅛"	39R555
1½" x 1" x 1¼"	1⅝" x 1⅛" x 1⅜"	39R679
1½" x 1" x 1½"	1⅝" x 1⅛" x 1⅝"	1VMD3
1½" x 1¼" x 1½"	1⅝" x 1⅜" x 1⅝"	1VMD2
1½" x 1¼" x ½"	1⅝" x 1⅜" x ⅝"	39R686
1½" x 1¼" x ¾"	1⅝" x 1⅜" x ⅞"	39R599
1½" x 1¼" x 1"	1⅝" x 1⅜" x 1⅛"	39R602
1½" x 1¼" x 1¼"	1⅝" x 1⅜" x 1⅜"	39R587
1½" x 1½" x ½"	1⅝" x 1⅝" x ⅝"	5P114
1½" x 1½" x ¾"	1⅝" x 1⅝" x ⅞"	5P115
1½" x 1½" x 1"	1⅝" x 1⅝" x 1⅛"	5P116
1½" x 1½" x 1¼"	1⅝" x 1⅝" x 1⅜"	39R554
1½" x ½" x 1½"	2⅛"	39R597
2" x ½" x 2"	2⅛" x ⅝" x 2⅛"	39R637
2" x ¾" x 2"	2⅛" x ⅞" x 2⅛"	1VMD8
2" x 1" x 1"	2⅛" x 1⅛" x 1⅛"	39R645
2" x 1" x 2"	2⅛" x 1⅛" x 2⅛"	1VMD7
2" x 1¼" x 1"	2⅛" x 1⅜" x 1⅛"	39R755
2" x 1¼" x 1¼"	2⅛" x 1⅜" x 1⅜"	39R655
2" x 1¼" x 1½"	2⅛" x 1⅜" x 1⅝"	39R732
2" x 1¼" x 2"	2⅛" x 1⅜" x 2⅛"	1VMD6
2" x 1½" x ½"	2⅛" x 1⅝" x ⅝"	39R729
2" x 1½" x ¾"	2⅛" x 1⅝" x ⅞"	39R646
2" x 1½" x 1"	2⅛" x 1⅝" x 1⅛"	39R639
2" x 1½" x 1¼"	2⅛" x 1⅝" x 1⅜"	39R667
2" x 1½" x 1½"	2⅛" x 1⅝" x 1⅝"	39R580
2" x 1½" x 2"	2⅛" x 1⅝" x 2⅛"	39R661
2" x 2" x ½"	2⅛" x 2⅛" x ⅝"	39R514
2" x 2" x ¾"	2⅛" x 2⅛" x ⅞"	5P118
2" x 2" x 1"	2⅛" x 2⅛" x 1⅛"	5P119
2" x 2" x 1¼"	2⅛" x 2⅛" x 1⅜"	39R540
2" x 2" x 1½"	2⅛" x 2⅛" x 1⅝"	39R530
2½" x ¾" x 2½"	2⅝" x ⅞" x 2⅝"	39R681
2½" x 1½" x 2½"	2⅝" x 1⅝" x 2⅝"	39R759
2½" x 2" x 1½"	2⅝" x 2⅛" x 1⅝"	39R748
2½" x 2" x 2"	2⅝" x 2⅛" x 2⅛"	39R650
2½" x 2" x 2½"	2⅝" x 2⅛" x 2⅝"	39R737
2½" x 2½" x ½"	2⅝" x 2⅝" x ⅝"	39R605
2½" x 2½" x ¾"	2⅝" x 2⅝" x ⅞"	39R558
2½" x 2½" x 1"	2⅝" x 2⅝" x 1⅛"	1VME4
2½" x 2½" x 1¼"	2⅝" x 2⅝" x 1⅜"	1VME3
2½" x 2½" x 1½"	2⅝" x 2⅝" x 1⅝"	1VME2
2½" x 2½" x 2"	2⅝" x 2⅝" x 2⅛"	1VME1
3" x ¾" x 3"	3⅛" x ⅞" x 3⅛"	39R708
3" x 2" x 2"	3⅛" x 2⅛" x 2⅛"	39R701
3" x 2½" x 2½"	3⅛" x 2⅝" x 2⅝"	39R753
3" x 3" x ½"	3⅛" x 3⅛" x ⅝"	39R665
3" x 3" x ¾"	3⅛" x 3⅛" x ⅞"	39R604
3" x 3" x 1"	3⅛" x 3⅛" x 1⅛"	1VMG1
3" x 3" x 1¼"	3⅛" x 3⅛" x 1⅜"	1VME9
3" x 3" x 1½"	3⅛" x 3⅛" x 1⅝"	1VME8
3" x 3" x 2"	3⅛" x 3⅛" x 2⅛"	1VME7
3" x 3" x 2½"	3⅛" x 3⅛" x 2⅝"	1VME6
4" x 4" x ¾"	4⅛" x 4⅛" x ⅞"	39R717
4" x 4" x 1"	4⅛" x 4⅛" x 1⅛"	39R749
4" x 4" x 1½"	4⅛" x 4⅛" x 1⅝"	39R724
4" x 4" x 2"	4⅛" x 4⅛" x 2⅛"	1VMG5
4" x 4" x 2½"	4⅛" x 4⅛" x 2⅝"	1VMG4
4" x 4" x 3"	4⅛" x 4⅛" x 3⅛"	1VMG3

† Mueller Streamline brand.

MUELLER STREAMLINE NIBCO

Drain, Waste and Vent Wrot Copper Fittings

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Adapter				
	C x MNPT	1½ in	1⅝ in	5UGA7 †
	C x SJ	1½ in	1⅝ in	5UGH1 †
DWV Closet Flange				
	C	4 in x 3 in	4⅛ x 3⅛ in	39R733
DWV Coupling				
	C x C	1½ in	1⅝ in	5UGE9 †
	C x C	2 in	2⅛ in	5UGF0 †

† Mueller Streamline brand.

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Elbow, 45°				
	C x C	1¼ in	1⅜ in	39R624
	C x C	1½ in	1⅝ in	5UGF3 †
	C x C	1½ in	1⅝ in	39R510
	C x C	2 in	2⅛ in	5UGF4 †
	C x C	2 in	2⅛ in	39R517
	C x C	3 in	3⅛ in	39R687
	C x FTG	1¼ in	1⅜ in	39R675
	C x FTG	1½ in	1⅝ in	39R524
	C x FTG	2 in	2⅛ in	5UGF6 †
	C x FTG	2 in	2⅛ in	39R535
	C x FTG	3 in	3⅛ in	39R725
DWV Elbow, 60°				
	C x C	1½ in	1⅝ in	39R673
DWV Elbow, 90°				
	C x C	1¼ in	1⅜ in	39R545
	C x C	1½ in	1⅝ in	5UGF1 †
	C x C	1½ in	1⅝ in	39R494
	C x C	2 in	2⅛ in	5UGF2 †
	C x C	2 in	2⅛ in	39R505
	C x C	3 in	3⅛ in	39R664
	C x FTG	1¼ in	1⅜ in	39R699
	C x FTG	1½ in	1⅝ in	39R547
	C x FTG	2 in	2⅛ in	39R575
	C x FTG	3 in	3 in x 3⅛ in	39R736

Description	Pipe Fitting Connection Type	Tube Size	Outside Dia.	Item No.
DWV Long Radius Elbow, 90°				
	C x C	1½ in	1⅝ in	39R566
DWV Reducing Tee				
	C x C x C	2 in x 2 in x 1 ½ in	2⅛ in x 2⅛ in x 1⅝ in	39R553
	C x C x C	2 in x 1 ½ in x 1 ½ in	2⅛ in x 1⅝ in x 1⅝ in	39R672
	C x C x C	2 in x 1 ½ in x 2 in	2⅛ in x 1⅝ in x 2⅛ in	39R689
DWV Street Elbow, 45°				
	C x FTG	1½ in	1⅝ in	5UGF5 †
DWV Tee				
	C x C	2 in	2⅛ in	5UGF7 †
	C x C x C	1¼ in	1⅜ in	39R641
	C x C x C	1½ in	1⅝ in	39R537
	C x C x C	2 in	2⅛ in	39R534
DWV Test Cap				
	C x C	½ in	⅝ in	5UGF8 †
	C x C	1½ in	1⅝ in	5UGF9 †

NIBCO

Cast Copper and Bronze Fittings

- Temp. range: -20° to 400°F, except 1WLH5 to 1WJL1 are 0° to 400°F and 36N483 is 40° to 100°F

Feature higher pressure ratings than most wrot copper fittings. Approved Vendor models are compatible with wrot copper fittings. All models are for use in nondrinking water and air applications. Meet ANSI B16.18, except 36N483 to 36N559 meet ASME B16.26.

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Max. Press. (psi @ °F)	Outside Dia.	Brand	Item No.
45° Wye								
	Cast Bronze	C x C x C	¾ in	—	466 @200	⅞ in	Nibco	36N538
	Cast Bronze	C x C x C	1 in	—	395 @200	1⅛ in	Nibco	36N539
90° Drop Ear Elbow								
	Cast Copper	C x C	½ in	—	722 @100	⅝ in	Nibco	5P158
	Cast Copper	C x FNPT	½ in	½ in	722 @100	⅝ in	Nibco	5P154
	Cast Bronze	C x C	¾ in	—	466 @200	⅞ in	Nibco	36N507
	Cast Bronze	C x FNPT	1 in	1 in	395 @200	1⅛ in	Nibco	36N503
90° Elbow								
	Cast Bronze	C x FNPT	½ in	½ in	577 @200	⅝ in	Nibco	36N499
	Cast Copper	C x FNPT	½ in	½ in	722 @100	⅝ in	Nibco	5P150
	Cast Copper	C x MNPT	½ in	½ in	722 @100	⅝ in x ½ in	Nibco	5P156
	Cast Copper	C x FNPT	¾ in	¾ in	582 @ 100	⅞ in x ¾ in	Nibco	5P151
	Cast Bronze	C x MNPT	1 in	1 in	395 @200	1⅛ in x 1 in	Nibco	36N505
	Cast Copper	C x FNPT	1 in	1 in	494 @ 100	1⅛ in	Nibco	5P152
90° Reducing Drop Elbow								
	Cast Copper	C x FNPT	½ in	⅜ in	722 @100	⅝ in x ½ in	Nibco	5P149
	Cast Copper	C x FNPT	¾ in	½ in	582 @ 100	⅞ in x ⅝ in	Nibco	1WLH3
90° Reducing Elbow								
	Cast Bronze	C x FNPT	½ in	¾ in	466 @200	⅝ in x ⅞ in	Nibco	36N501
	Cast Bronze	C x FNPT	¾ in	1 in	395 @200	⅞ in x 1⅛ in	Nibco	36N502
	Cast Bronze	C x C	1 ½ in x 1 in	—	327 @200	1⅝ in x 1⅛ in	Nibco	36N498
	Cast Bronze	C x C	1 ¼ in x ¾ in	—	351 @200	1⅜ in x ⅞ in	Nibco	36N497
90° Union Elbow								
	Cast Bronze	C x C	¾ in	—	466 @200	⅞ in	Nibco	36N508
	Cast Bronze	C x MNPT	¾ in	¾ in	466 @200	⅞ in x ¾ in	Nibco	36N506
Adapter								
	Cast Copper	C x MNPT	½ in	½ in	722 @100	⅝ in x ½ in	Nibco	5P147
Baseboard Tee (run x run x outlet)								
	Cast Bronze	C x FNPT x C	1 in	⅛ in	395 @200	1⅛ in x ¼ in x 1⅛ in	Nibco	36N493

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Max. Press. (psi @ °F)	Outside Dia.	Brand	Item No.
Drain Coupling								
	Cast Bronze	C x C	½ in	—	577 @200	⅝ in	Nibco	36N484
	Cast Bronze	C x C	¾ in	—	466 @200	⅞ in	Nibco	36N485
DWV 45° Wye								
	Cast Bronze	C x C x C	1½ in	—	577 @200	1⅝ in	Nibco	36N547
	Cast Bronze	C x C x C	2 in	—	466 @200	2⅛ in	Nibco	36N548
DWV Adapter								
	Cast Bronze	C x MNPT	1½ in	1½ in	395 @200	1⅝ in x 1½ in	Nibco	36N544
	Cast Bronze	C x MNPT	1½ in	1½ in	577 @200	1⅝ in x 1½ in	Nibco	36N540
	Cast Bronze	C x MNPT	2 in	2 in	577 @200	2⅛ in x 2 in	Nibco	36N545
DWV Fitting Cleanout								
	Cast Bronze	FTG x Cleanout with Plug	1½ in	—	395 @200	1⅝ in x 1½ in	Nibco	36N553
	Cast Bronze	FTG x Cleanout with Plug	2 in	—	351 @200	2⅛ in x 2 in	Nibco	36N554
DWV Flush Adapter								
	Cast Bronze	C x MNPT	1½ in	1½ in	466 @200	1⅝ in x 1½ in	Nibco	36N541
DWV Long Turn Tee Wye								
	Cast Bronze	C x C x C	1½ in	—	291 @200	1⅝ in	Nibco	36N551
	Cast Bronze	C x C x C	2 in	—	351 @200	2⅛ in	Nibco	36N550
DWV No Hub Soil Pipe Adapter								
	Cast Bronze	C x No Hub	2 in	—	466 @200	2⅛ in x 2 in	Nibco	36N546
DWV P-Trap								
	Cast Bronze	C x C	1½ in	—	466 @200	1⅝ in	Nibco	36N558
	Cast Bronze	C x C	2 in	—	395 @200	2⅛ in	Nibco	36N559
DWV P-Trap with Clean Out								
	Cast Bronze	C x C	1½ in	—	577 @200	1⅝ in	Nibco	36N557
DWV Return Bend								
	Cast Bronze	C x C	1½ in	—	291 @200	1⅝ in	Nibco	36N556
DWV Threaded Piece								
	Cast Bronze	C x MNPT	1¼ in	1¼ in	466 @200	1⅜ in x 1¼ in	Nibco	36N542
	Cast Bronze	C x MNPT	1½ in	1½ in	395 @200	1⅝ in x 1½ in	Nibco	36N543
Fitting Union								
	Cast Bronze	C x MNPT	⅜ in	⅜ in	623 @200	½ in x ⅜ in	Nibco	36N532
	Cast Bronze	C x FNPT	½ in	½ in	577 @200	⅝ in	Nibco	36N527
	Cast Bronze	C x FNPT	¾ in	¾ in	466 @ 200	⅞ in	Nibco	36N528
	Cast Bronze	C x FNPT	1 in	1 in	395 @200	1⅛ in	Nibco	36N529
	Cast Bronze	C x MNPT	1 in	1 in	395 @200	1⅛ in x 1 in	Nibco	36N533
	Cast Bronze	C x FNPT	1¼ in	1¼ in	351 @200	1⅜ in	Nibco	36N530
	Cast Bronze	C x MNPT	1¼ in	1¼ in	351 @200	1⅜ in x 1¼ in	Nibco	36N534
	Cast Bronze	C x MNPT	1½ in	1½ in	327 @200	1⅝ in x 1½ in	Nibco	36N535
	Cast Bronze	C x FNPT	2 in	2 in	291 @200	2⅛ in	Nibco	36N531
	Cast Bronze	C x MNPT	2 in	2 in	291 @200	2⅛ in x 2 in	Nibco	36N536

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NIBCO

Cast Copper and Bronze Fittings

Description	Tube Fitting Mat.	Pipe Fitting Conn.	Tube Size	Pipe Size	Outside Dia.	Max. Press. (psi @ °F)	Brand	Item No.
Flange								
	Cast Copper	C x Flange	1 in	—	1⅛ in	105 @ 100	Nibco	**1WLH5**
	Cast Copper	C x Flange	1¼ in	—	1⅜ in	105 @ 100	Nibco	**1WLH8**
	Cast Copper	C x Flange	1½ in	—	1⅝ in	100 @ 100	Nibco	**1WLH9**
	Cast Copper	C x Flange	2 in	—	2⅛ in	100 @ 100	Nibco	**1WLH6**
	Cast Copper	C x Flange	2½ in	—	2⅝ in	100 @100	Nibco	**1WLJ1**
	Cast Copper	C x Flange	3 in	—	3⅛ in	95 @ 100	Nibco	**1WLH7**
Flush Adapter								
	Cast Copper	C x MNPT	½ in	½ in	⅝ in	722 @ 100	—	**24W566**
Hose Adapter								
	Cast Bronze	C x Hose	½ in	—	⅝ in x ½ in	577 @200	Nibco	**36N491**
Hy-Set Hanger								
	Cast Bronze	C	½ in	—	—	577 @200	Nibco	**36N525**
	Cast Bronze	C	¾ in	—	—	466 @200	Nibco	**36N526**
Reducing Adapter								
	Cast Bronze	FTG x FNPT	½ in	¼ in	⅝ in x ⅜ in	577 @200	Nibco	**36N487**
	Cast Bronze	FTG x FNPT	¾ in	½ in	⅞ in x ⅝ in	466 @200	Nibco	**36N488**
	Cast Bronze	C x FNPT	1¼ in	¾ in	1⅜ in x ⅞ in	351 @200	Nibco	**36N486**
Reducing Tee (run x run x outlet)								
	Cast Bronze	C x C x FNPT	½ in	¼ in	⅝ in x ⅝ in x ⅜ in	577 @200	Nibco	**36N513**
	Cast Bronze	C x C x FNPT	½ in	¾ in	⅝ in x ⅝ in x ⅞ in	466 @200	Nibco	**36N512**
	Cast Bronze	C x FNPT x C	¾ in	½ in	⅞ in x ⅝ in x ⅞ in	466 @200	Nibco	**36N522**
	Cast Copper	C x C x FNPT	¾ in	½ in	⅞ x ⅞ in	582 @ 100	—	**24W594**
	Cast Bronze	C x FNPT x C	1 in	½ in	1⅛ in x ⅝ in x 1⅛ in	395 @200	Nibco	**36N524**
	Cast Bronze	C x C x FNPT	1 in	½ in	1⅜ in x 1⅜ in x ⅞ in	395 @200	Nibco	**36N515**
	Cast Bronze	C x FNPT x C	1 in	¾ in	1⅛ in x ⅞ in x 1⅛ in	395 @200	Nibco	**36N523**
	Cast Bronze	C x C x FNPT	1 in	¾ in	1⅛ in x 1⅛ in x ¾ in	395 @200	Nibco	**36N514**
	Cast Bronze	C x C x FNPT	1¼ in	½ in	1⅜ in x 1⅜ in x ½ in	351 @200	Nibco	**36N517**
	Cast Bronze	C x C x FNPT	1¼ in	¾ in	1⅜ in x 1⅜ in x ¾ in	351 @200	Nibco	**36N516**
	Cast Bronze	C x C x FNPT	1½ in	½ in	1⅝ in x 1⅝ in x ⅝ in	327 @200	Nibco	**36N518**
Reducing Wye								
	Cast Bronze	C x C x C	2 in x 2 in x 1 ½ in	—	2⅛ in x 2⅛ in x 1⅝ in	395 @200	Nibco	**36N549**
Special Drop Adapter								
	Cast Bronze	C x FNPT	½ in	½ in	⅝ in	577 @200	Nibco	**36N489**
	Cast Bronze	C x FNPT	¾ in	¾ in	⅞ in	466 @200	Nibco	**36N490**
Tee								
	Cast Bronze	C x FNPT x C	½ in	½ in	⅝ in	577 @200	Nibco	**36N520**
	Cast Copper	C x C x FNPT	½ in	½ in	⅝ x ⅝ in	722 @ 100	—	**24W589**
	Cast Bronze	C x FNPT x C	¾ in	¾ in	⅞ in	466 @200	Nibco	**36N521**
	Cast Copper	C x C x FNPT	¾ in	¾ in	⅞ in	582 @ 100	Nibco	**5P160**
Tube Nut								
	Cast Bronze		—	1 in	—	175	Nibco	**36N483**
Union								
	Cast Copper	C x C	¼ in	—	⅜ in	912 @ 100	Nibco	**1WLJ2**
	Cast Copper	C x C	⅜ in	—	½ in	779 @ 100	Nibco	**1WLJ3**
	Cast Copper	C x C	½ in	—	⅝ in	722 @100	Nibco	**5P162**
	Cast Copper	C x C	½ in	—	⅝ in	722 @ 100	—	**24W569**
	Cast Copper	C x MNPT	½ in	½ in	⅝ in x ½ in	722 @100	Nibco	**5P168**
	Cast Copper	C x MNPT	½ in	½ in	⅝ in	722 @ 100	—	**24W564**
	Cast Copper	C x C	¾ in	—	⅞ in	580 @ 100	—	**24W570**
	Cast Copper	C x C	¾ in	—	⅞ in	582 @ 100	Nibco	**5P163**
	Cast Copper	C x MNPT	¾ in	¾ in	⅞ in	582 @ 100	—	**24W565**
	Cast Copper	C x MNPT	¾ in	¾ in	⅞ in x ¾ in	582 @ 100	Nibco	**5P169**
	Cast Copper	C x C	1 in	—	1⅛ in	494 @ 100	Nibco	**5P164**
	Cast Copper	C x C	1 in	—	1⅛ in	494 @ 100	—	**24W571**
	Cast Copper	C x C	1¼ in	—	1⅜ in	439 @ 100	Nibco	**5P165**
	Cast Copper	C x C	1¼ in	—	1⅜ in	439 @ 100	—	**24W572**
	Cast Copper	C x C	1½ in	—	1⅝ in	405 @ 100	—	**24W573**
	Cast Copper	C x C	1½ in	—	1⅝ in	408 @ 100	Nibco	**5P166**
	Cast Copper	C x C	2 in	—	2⅛ in	364 @ 100	Nibco	**5P167**
	Cast Copper	C x C	2 in	—	2⅛ in	364 @ 100	—	**24W574**
	Cast Copper	C x C	2½ in	—	2⅝ in	336 @ 100	Nibco	**1WLJ4**
	Cast Copper	C x C	2½ in	—	2⅝ in	336 @ 100	—	**24W575**
	Cast Copper	C x C	3 in	—	3⅛ in	317 @ 100	Nibco	**1WLH2**
	Cast Copper	C x C	3 in	—	3⅛ in	317 @ 100	—	**24W576**
Vent Elbow								
	Cast Bronze	C x C	½ in	—	⅝ in	577 @200	Nibco	**36N494**
	Cast Bronze	C x C	¾ in	—	⅞ in	466 @200	Nibco	**36N495**
	Cast Bronze	C x C	1 in	—	1⅛ in	395 @200	Nibco	**36N496**

NIBCO

Lead-Free Cast Bronze Fittings

- Temp. range: -20° to 200°F

Meet NSF/ANSI 61 Annex G, except 40F183 to 40F268 meet ASTM B584 Alloy C87850, Third-Party Certified To NSF/ANSI 61 Annex G, and ASME B16.18. Certified for use in potable water applications.

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
45° Wye						
	C x C x C	½ in	—	⅝ in	577 psi	**40F252**
	C x C x C	¾ in	—	⅞ in	466 psi	**40F253**
	C x C x C	1 in	—	1⅛ in	395 psi	**40F254**
90° Drop Ear Elbow						
	C x FNPT	½ in	⅜ in	⅝ in x ½ in	577 psi	**40F187**
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5EFW3**
	C x FNPT	¾ in	½ in	⅞ in x ½ in	466 psi	**5GEV3**
	C x FNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5GEV2**
	C x FNPT	1 in	1 in	1⅛ in x 1 in	395 psi	**5GEV4**
90° Elbow						
	C x FNPT	¼ in	¼ in	⅜ in	729 psi	**40F207**
	C x FNPT	⅜ in	⅜ in	½ in	623 psi	**40F208**
	C x MNPT	⅜ in	⅜ in	½ in	623 psi	**40F222**
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5EFW0**
	C x MNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5GEV6**
	C x MNPT	½ in	½ in	⅝ in	577 psi	**40F223**
	C x FNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5EFW1**
	C x MNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5GEV7**
	C x MNPT	¾ in	¾ in	⅞ in	466 psi	**40F224**
	C x FNPT	1 in	1 in	1⅛ in x 1 in	395 psi	**5EFW2**
	C x MNPT	1 in	1 in	1⅛ in x 1 in	395 psi	**5GEV8**
	C x MNPT	1 in	1 in	1⅛ in	385 psi	**40F225**
	C x FNPT	1¼ in	1¼ in	1⅜ in	351 psi	**40F216**
	C x FNPT	1½ in	1½ in	1⅝ in	327 psi	**40F217**
	C x FNPT	2 in	2 in	2¼ in	291 psi	**40F218**
	C x MNPT	2 in	2 in	2¼ in	291 psi	**40F221**
90° Elbow, HY Set						
	C x C	½ in	—	⅝ in	577 psi	**5GEW3**
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5GEV5**
90° Elbow, Sink Flanged						
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5GEW5**
90° Elbow, Vent						
	C x C	½ in	—	⅝ in	577 psi	**5EFV8**
	C x C	¾ in	—	⅞ in	466 psi	**5EFV9**
	C x C	1 in	—	1⅛ in	395 psi	**40F204**
90° Reducing Elbow						
	C x FNPT	½ in	¼ in	⅝ in x ⅜ in	577 psi	**40F211**
	C x FNPT	½ in	⅜ in	⅝ in x ½ in	577 psi	**40F210**
	C x FNPT	½ in	¾ in	⅝ in x ⅞ in	577 psi	**40F209**
	C x MNPT	½ in	¾ in	⅝ in x ⅞ in	577 psi	**40F219**
	C x FNPT	¾ in	½ in	⅞ in x ⅝ in	466 psi	**40F213**
	C x MNPT	¾ in	½ in	⅞ in x ⅝ in	466 psi	**40F220**
	C x FNPT	¾ in	1 in	⅞ in x 1⅛ in	466 psi	**40F212**
	C x C	1 ¼ in x ¾ in	–	1⅜ in x ⅞ in	351 psi	**40F205**
	C x C	1 ½ in x 1 in	–	1⅝ in x 1⅛ in	327 psi	**40F206**
	C x FNPT	1 in	½ in	1⅛ in x ⅝ in	385 psi	**40F215**
	C x FNPT	1 in	¾ in	1⅛ in x ⅞ in	385 psi	**40F214**
90° Union Elbow						
	C x C	½ in	—	⅝ in	623 psi	**40F226**
Adapter						
	C x FNPT	½ in	1 in	⅝ in x 1⅛ in	395 psi	**40F194**
	C x FNPT	¾ in	½ in	⅞ in x ½ in	466 psi	**5EFV4**
	C x FNPT	1 in	¾ in	1⅛ in x ¾ in	395 psi	**5EFV5**
Baseboard Tee						
	C x FNPT	¾ in	⅛ in	—	466 psi	**40F188**
Class 150 Companion Flange						
	C	1 in	—	4¼ in	395 psi	**40F256**
	C	1¼ in	—	4⅝ in	351 psi	**40F257**
	C	1½ in	—	5 in	327 psi	**40F258**
	C	2 in	—	6 in	291 psi	**40F259**
	C	2½ in	—	7 in	269 psi	**40F260**
	C	3 in	—	7½ in	254 psi	**40F261**
	C	4 in	—	9 in	235 psi	**40F262**
	C	5 in	—	10 in	215 psi	**40F263**
	C	6 in	—	11 in	201 psi	**40F264**
Class 150 Threaded Companion Flange						
	C	2 in	—	2⅛ in	291 psi	**40F265**
		2½ in	—	2⅝ in	269 psi	**40F266**
	C	3 in	—	3⅛ in	254 psi	**40F267**
	C	4 in	—	4⅛ in	235 psi	**40F268**
Drain Coupling						
	C x C	½ in	—	⅝ in	577 psi	**40F193**
	C x C	¾ in	—	⅞ in	466 psi	**40F185**
Drop Ear Tee						
	C x C x FNPT	½ in	½ in	⅝ in x ⅝ in x ½ in	577 psi	**5GEX6**
	C x C x FNPT	¾ in	¾ in	⅞ in x ⅞ in x ¾ in	466 psi	**5GEX7**
Drop Tee						
	C x C x C	½ in	—	⅝ in	577 psi	**40F234**

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Lead-Free Cast Bronze Fittings

NIBCO

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
Fitting Union						
	C x FNPT	¼ in	¼ in	⅜ in	729 psi	**40F247**
	C x FNPT	⅜ in	⅜ in	½ in	623 psi	**40F248**
Reducing Adapter						
	C x FNPT	¾ in	⅜ in	⅞ in x ½ in	466 psi	**40F195**
Reducing Cross						
	C x C x C x C	½ in	—	⅝ in	577 psi	**40F251**
Reducing Male Adapter						
	C x MNPT	¾ in	1¼ in	⅞ in x 1⅜ in	466 psi	**40F197**
Reducing Tee (run x run x outlet)						
	C x C x FNPT	½ in	⅜ in	⅝ in x ⅝ in x ½ in	577 psi	**40F236**
	C x FNPT x C	½ in	½ x ⅛ x ½ in	⅝ in x ¼ in x ⅝ in	577 psi	**40F202**
	FNPT x FNPT x C	½ in	¾ in x ½ in	⅞ in x ⅝ in x ⅝ in	577 psi	**40F231**
	FNPT x FNPT x C	½ in	¾ in	⅞ in x ⅞ in x ⅝ in	577 psi	**40F229**
	C x FNPT x C	½ in	¾ in	⅝ in x ⅞ in x ⅝ in	577 psi	**40F244**
	C x C x FNPT	¾ in	⅜ in	⅞ in x ⅞ in x ½ in	466 psi	**40F237**
	C x FNPT x C	¾ in	½ in	⅞ in x ⅝ in x ⅞ in	466 psi	**40F245**
	FNPT x FNPT x C	¾ in	¾ in x ½ in	⅞ in x ⅝ in x ⅞ in	466 psi	**40F230**
	C x C x C	1 ¼ in x ½ in x 1 in	—	1⅜ in x ⅝ in x 1⅛ in	391 psi	**40F233**
	C x FNPT x C	1 in	⅛ in	1⅛ in x ¼ in x 1⅛ in	395 psi	**40F203**
	C x FNPT x C	1 in	½ in	1⅛ in x ⅝ in x 1⅛ in	395 psi	**40F246**
	C x C x FNPT	1¼ in	¾ in	1⅜ in x 1⅜ in x ⅞ in	391 psi	**40F238**
	C x C x FNPT	1½ in	¾ in	1⅝ in x 1⅝ in x ⅞ in	327 psi	**40F239**
	C x C x FNPT	2 in	¾ in	2⅛ in x 2⅛ in x ⅞ in	291 psi	**40F241**
	C x C x FNPT	2 in	1 in	2⅛ in x 2⅛ in x 1⅛ in	291 psi	**40F240**

Description	Pipe Fitting Connection Type	Tube Size	Pipe Size - Pipe Fitting	Outside Dia.	Max. Pressure	Item No.
Special Drop Adapter						
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5EFV6**
	C x FNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5EFV7**
Tee						
	C x C x FNPT	½ in	¼ in	⅝ in x ⅝ in x ¼ in	577 psi	**5GEW7**
	C x C x FNPT	½ in	½ in	⅝ in x ⅝ in x ½ in	577 psi	**5GEW6**
	C x C x MNPT	½ in	½ in	⅝ in	577 psi	**40F242**
	C x FNPT x C	½ in	½ in	⅝ in	577 psi	**40F243**
	C x C x FNPT	½ in	¾ in	⅝ in x ⅝ in x ⅞ in	577 psi	**40F235**
	C x C x FNPT	¾ in	½ in	⅞ in x ⅞ in x ½ in	466 psi	**5GEW9**
	C x C x FNPT	¾ in	¾ in	⅞ in x ⅞ in x ¾ in	466 psi	**5GEW8**
	C x FNPT x C	¾ in	¾ in	⅞ in x ¾ in x ⅞ in	466 psi	**5GEX8**
	FNPT x FNPT x C	¾ in	¾ in	⅞ in	466 psi	**40F228**
	FNPT x MNPT x C	¾ in	¾ in	⅞ in	466 psi	**40F232**
	C x C x FNPT	1 in	½ in	1⅛ in x 1⅛ in x ½ in	395 psi	**5GEX2**
	C x C x FNPT	1 in	¾ in	1⅛ in x 1⅛ in x ¾ in	395 psi	**5GEX1**
	C x FNPT x C	1 in	¾ in	1⅛ in x ¾ in x 1⅛ in	395 psi	**5GEY0**
	C x C x FNPT	1 in	1 in	1⅛ in x 1⅛ in x 1 in	395 psi	**5GEX0**
	C x FNPT x C	1 in	1 in	1⅛ in x 1 in x 1⅛ in	395 psi	**5GEX9**
	C x C x FNPT	1¼ in	½ in	1⅜ in x 1⅜ in x ½ in	351 psi	**5GEX4**
	C x C x FNPT	1¼ in	1 in	1⅜ in x 1⅜ in x 1 in	351 psi	**5GEX3**
	C x C x FNPT	1½ in	1 in	1⅝ in x 1⅝ in x 1 in	327 psi	**5GEX5**
Union						
	C x MNPT	¼ in	¼ in	⅜ in	729 psi	**40F249**
	C x MNPT	⅜ in	⅜ in	½ in	623 psi	**40F250**
	C x FNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5GEY3**
	C x MNPT	½ in	½ in	⅝ in x ½ in	577 psi	**5GEY8**
	C x FNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5GEY4**
	C x MNPT	¾ in	¾ in	⅞ in x ¾ in	466 psi	**5GEY9**
	C x FNPT	1 in	1 in	1⅛ in x 1 in	395 psi	**5GEY5**
	C x C	1¼ in	—	1⅜ in	351 psi	**5GEY1**
	C x FNPT	1¼ in	1¼ in	1⅜ in x 1¼ in	351 psi	**5GEY6**
	C x MNPT	1¼ in	1¼ in	1⅜ in x 1¼ in	351 psi	**5GEZ1**
	C x C	1½ in	—	1⅝ in	327 psi	**5GEY2**
	C x FNPT	1½ in	1½ in	1⅝ in x 1½ in	327 psi	**5GEY7**
	C x MNPT	1½ in	1½ in	1⅝ in x 1½ in	327 psi	**5GEZ2**
	C x C	2 in	—	2⅛ in	291 psi	**40F184**
	C x MNPT	2 in	2 in	2⅛ in	291 psi	**40F183**
	C x FNPT	2 in	2 in	2⅛ in	291 psi	**40F186**
	C x C	2½ in	—	2⅝ in	269 psi	**40F189**
	C x MNPT	2½ in	2½ in	2⅝ in	269 psi	**40F191**
	C x FNPT	2½ in	2½ in	2⅝ in	269 psi	**40F192**
	C x C	3 in	—	3⅛ in	254 psi	**40F190**

426J88

2TE27

Copper Press Tools and PEX Press Jaws

RIDGID

Use to securely join Type K, L, or M copper tubing, with no flames, solder, or flux. Designed for ½" to 4" applications, with interchangeable jaws and rings. For use with potable and chilled water, hydronic heating, compressed air, and air vacuum (29.2" Hg max. at 68°F).

Compact Cordless Press Tool Kits—Compact and lightweight for tight spaces and overhead work, these press tools feature Bluetooth® connectivity to manage information such as battery life and cycle count. The handy LED light is ideal for low light conditions and the battery can provide up to 140 crimps per charge. Barrel swivels 180°. The included carrying case eases transport to and from the jobsite.

Press Tool Kit and Press Tool—Durable brushless motor is capable of over 100,000 press cycles. Features Bluetooth connectivity, color-coded light indicators for easy operation, and bright LED light for low light applications. Barrel swivels 360°. Includes carrying case.

Pressing Ring Kits—Use with battery-powered or corded pressing tools to connect copper tubing in tight spaces; a swivel actuator allows the tool to be oriented ±90° to the tubing.

Viega MegaPress Jaws Kits—34TC11 and 34TC10 include ½" to 1" press jaws and a carrying case, 34TC10 adds 1¼ " to 2" press rings and actuator.

Press Tool Accessories—Press Tool Pipe Cutter Attachment 5KAY4 eases cutting of cast-iron soil pipe. Simply connect unit to press tool, wrap chain around the pipe, and press. No ratcheting or additional tools required. Compatible with all Ridgid standard press tools.

PEX Press Jaws—Designed for use with Viega® system fittings. Compact jaws are ⅓ smaller than Standard models and are for use in tight spaces.

Description	Press Tool Jaw/ Pipe Capacity	Use With Pipe/ Tubing Material	Tool Length	Mfr. Model	Item No.
Compact Cordless Press Tool Kits					
Pistol Grip, 12 V DC, (4) Jaws, Case	½ in to 1 in	Copper	13 ½ in	RP-240	**426J88**
Pistol Grip, 12 V DC, (4) Jaws, Case	½ in to 1 ¼ in	Copper	13 ½ in	RP-240	**426J87**
In-Line Design, 12 V DC, (3) Jaws, Case	½ in to 1 in	Copper	15 ⅞ in	RP-241	**426J90**
In-Line Design, 12 V DC, (4) Jaws, Case	½ in to 1 ¼ in	Copper	15 ⅞ in	RP-241	**426J89**
Press Tool Kit					
Pistol Grip, 18 V DC, (6) Jaws; Carrying Case; Battery; Charger	½ in to 2 in	Carbon Steel, Copper, PEX, Stainless Steel	11 ¼ in	67053	**60UG31**
Press Tool					
Pistol Grip, 18 V DC, (4) Jaw, Power Adapter	½ in to 4 in	Carbon Steel, Copper, PEX, Stainless Steel	11 ¼ in	67068	**60UG33**

Description	For Pipe Size (in.)	For Use With	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Pressing Ring Kits, For Use With:							
CT-400, 320-E, RP 330-B, RP 330-C, or RP 340, RP 350) and ProPress XL-C	2½ to 4	22XH23 and 22XH24	13 ½ in	12 in	12 ½ in	20483	**2TE27**
	½ to 1¼		15 ½ in	11 in	3 ½ in	27423	**2GME8**
	1½ to 2					27428	**2GME9**
Viega MegaPress Jaws Kits							
Press Jaws for ½" to 1"	½ to 1	Mfr. No. 44693, Mfr. No. RP340-B	18 in	14 in	8 in	48558	**34TC11**
	½ to 2	Mfr. No. RP340-B, RP340-C				48553	**34TC10**

Description	For Use With	Mfr. Model	Item No.
Batteries and Chargers			
Li-Ion Battery, 12V	RIDGID 12V Cordless Tools	55183	**54HT32**
Battery Charger, 150+ Crimps Off A Single Charge 12V	Mfr. No. PEX-One Tools, Mfr. No. RP240, Mfr. No. RP241	55193	**54HT33**
Li-Ion Battery, 18V DC	CS12x, CS65x, CS6x Versa, RE6, RE60, RE600, RP340, RP350	56513	**61UM25**
Battery Charger, 18V, 39 min, 82 min Charge Time	RIDGID 18V Lithium Batteries	64383	**61UM26**

Description	For Pipe Size (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Item No.
Press Tool Accessories						
Press Tool Pipe Cutter Attachment	1 ½ to 4	9 in	17 in	3 in	34403R	**5KAY4**
Press Tool Carrying Case	—	9 ¾ in	17 ¼ in	6 in	34678	**5KAY5**
Compact MegaPress(R) Jaw	½	1 ³⁄₃₂ in	4 ½ in	5 ¹³⁄₆₄ in	48433	**453D73**
Compact MegaPress(R) Jaw	¾	5 in		2 in	48438	**453D74**
X-LC MegaPress(R) Booster	—	20 in	14 in	4 in	60658	**453D75**
X-LC MegaPress(R) Jaw	2½	8 ¼ in	2 ¾ in	9 ½ in	60643	**453D76**
X-LC MegaPress(R) Jaw	3	8 ¼ in	2 ¾ in	9 ½ in	60648	**453D77**
X-LC MegaPress(R) Jaw	4	8 ¼ in	2 ¾ in	9 ½ in	60653	**453D78**
X-LC MegaPress(R) Jaw Kit	2½ to 4	27 in	17 in	8 ⅞ in	60638	**453D79**

For Pipe Size (in.)	L (in.)	W (in.)	H (in.)	Mfr. Model	Compact Item No.	Standard Item No.
PEX Press Jaws						
½	4 in	6 in	1 ½ in	17008	**10E717**	—
½	6 in	6 ½ in	3 ½ in	22653	—	**10E720**
¾	6 in	4 in	1 in	17013	**10E718**	—
¾	7 in	7 ½ in	2 in	22663	—	**10E721**
1	6 in	4 in	1 in	17018	**10E719**	—
1	7 in	7 ½ in	2 ¼ in	22668	—	**10E722**
1¼	7 in	7 ½ in	2 ¼ in	22673	—	**10E723**
1½	7 in	7 ½ in	2 ¼ in	22678	—	**10E724**

Copper Viega ProPress Fittings

viega

- Max. pressure: 200 psi; tested to 600 psi
- Temp. range: 0° to 250°F

ProPress offers a quick, flameless, environmentally friendly way to join standard K, L, or M copper tubing with Viega Smart Connect feature, and to identify unpressed fittings. No flux, solder, or gas required. Use with copper press tools, sold separately on page 2800. For compliance and standards information, go to Grainger.com.

Gaskets

Description	Tube Size	Material of Construc.	Pressure (psi)	Temp. Range	Item No.
Gaskets	½ in	Viton	200 psi	0 to 284°F	10N770
	¾ in	Viton	200 psi	0 to 284°F	10N768
	1 in	Viton	200 psi	0 to 284°F	10N769
	1 ¼ in	Viton	200 psi	0 to 284°F	10N773
	1 ½ in	Viton	200 psi	0 to 284°F	10N772
	2 in	Viton	200 psi	0 to 284°F	10N771

45° Elbow

Press x Press

Press x Street

Description	Tube Size	Item No.
45° Elbow Press x Press	½ in x ½ in	1RPL4
	¾ in x ¾ in	48RH43
	1 in x 1 in	48RH44
	1¼ in x 1¼ in	48RH45
	1½ in x 1½ in	48RH46
	2 in x 2 in	48RH47
Press x Street	½ in x ½ in	1RPN4
	¾ in x ¾ in	48RH48
	1 in x 1 in	48RH49
	1¼ in x 1¼ in	48RH50
	1½ in x 1½ in	48RH51
	2 in x 2 in	48RH52

90° Elbow

Press x Press

Press x Street

Description	Tube Size	Item No.
90° Elbow Press x Press	½ in x ½ in	1RPJ4
	¾ in x ¾ in	48RH53
	1 in x 1 in	48RH54
	1¼ in x 1¼ in	48RH55
	1½ in x 1½ in	48RH56
	2 in x 2 in	48RH57
Press x Street	½ in x ½ in	1RPK4
	¾ in x ¾ in	48RH58
	1 in x 1 in	48RH59
	1¼ in x 1¼ in	48RH60
	1½ in x 1½ in	48RH61
	2 in x 2 in	48RH62

Cap

Press

Description	Tube Size	Item No.
Cap Press	½ in	1RPE9
	¾ in	1RPF1
	1 in	1RPF2
	1¼ in	1RPF3
	1½ in	1RPF4
	2 in	1RPF5

Coupling No Stop

Press x Press

Description	Tube Size	Item No.
Coupling No Stop Press x Press	½ in x ½ in	1RPG9
	¾ in x ¾ in	1RPH1
	1 in x 1 in	1RPH2
	1¼ in x 1¼ in	1RPH3
	1½ in x 1½ in	1RPH4
	2 in x 2 in	1RPH5

Coupling with stop

Press x Press

Description	Tube Size	Item No.
Coupling with stop Press x Press	½ in x ½ in	1RPF9
	¾ in x ¾ in	1RPG1
	1 in x 1 in	1RPG2
	1¼ in x 1¼ in	1RPG3
	1½ in x 1½ in	1RPG4
	2 in x 2 in	1RPG5

Cross-over

Press x Press

Description	Tube Size	Item No.
Cross-over Press x Press	½ in x ½ in	1RPH9
	¾ in x ¾ in	1RPJ1

Elbow Stub Out w/Strap

FTG

Description	Tube Size	Item No.
Elbow Stub Out w/Strap FTG	½ in	4RCH7

Extended Coupling No Stop

Press x Press

Description	Tube Size	Item No.
Extended Coupling No Stop Press x Press	½ in x ½ in	5ULX2
	¾ in x ¾ in	5ULX3
	1 in x 1 in	5ULX4
	1¼ in x 1¼ in	5ULX5
	1½ in x 1½ in	5ULX6
	2 in x 2 in	5ULX7

Reducer

Press x Press

Description	Tube Size	Item No.
Reducer Press x Press	¾ in x ½ in	1RPV1
	1 in x ½ in	1RPV2
	1 in x ¾ in	1RPV3
	1¼ in x ¾ in	1RPV4
	1¼ in x 1 in	1RPV5
	1½ in x ¾ in	1RPV6
	1½ in x 1¼ in	1RPV8
	2 in x ¾ in	1RPV9
	2 in x 1 in	1RPW1
	2 in x 1¼ in	1RPW2
	1 ½ in x 2 in	1RPW3
	1½ in x 1 in	1RPV7

Street x Press

Description	Tube Size	Item No.
Street x Press	¾ in x ½ in	1RPW4
	1 in x ½ in	1RPW5
	1 in x ¾ in	1RPW6
	1¼ in x ½ in	1RPW7
	1¼ in x ¾ in	1RPW8
	1¼ in x 1 in	1RPW9
	1½ in x ¾ in	1RPX2
	1½ in x 1 in	1RPX3
	1½ in x 1¼ in	1RPX4
	2 in x 1 in	1RPX7
	2 in x 1¼ in	1RPX8
	2 in x 1½ in	1RPX9

Tee (run x run x outlet)

Press x Press x Press

Description	Tube Size	Item No.
Tee (run x run x outlet) Press x Press x Press	¾ in x ¾ in x ½ in	1RRA1
	¾ in x ¾ in x ¾ in	1RPZ7
	¾ in x ¾ in x 1 in	1RRA2
	1 in x 1 in x 1 in	1RRA3
	1 in x ½ in x ¾ in	1RRA4
	1 in x ½ in x 1 in	1RRA5
	1 in x ¾ in x ½ in	1RRA6
	1 in x ¾ in x ¾ in	1RRA7
	1 in x ¾ in x 1 in	1RRA8
	1 in x 1 in x ½ in	1RRA9
	1 in x 1 in x ¾ in	1RRB1
	1 in x 1 in x 1¼ in	1RRB2
	1¼ in x ¾ in x ¾ in	10N759
	1¼ in x ¾ in x 1 in	10N758
	1¼ in x ¾ in x 1¼ in	10N756
	1¼ in x 1 in x ½ in	10N760
	1¼ in x 1 in x ¾ in	1RRB4
	1¼ in x 1 in x 1 in	1RRB5
	1¼ in x 1¼ in x ½ in	1RRB6
	1¼ in x 1¼ in x ¾ in	1RRB7
	1¼ in x 1¼ in x 1 in	1RRB8
	1¼ in x 1¼ in x 1¼ in	1RRB3
	1½ in x 1½ in x 1½ in	1RRB9
	1½ in x 1 in x 1 in	1RRC4
	1½ in x 1 in x 1½ in	1RRC5
	1½ in x 1¼ in x 1 in	1RRC6
	1½ in x 1¼ in x 1¼ in	1RRC7
	1½ in x 1½ in x ½ in	1RRC8
	1½ in x 1½ in x ¾ in	1RRC9
	1½ in x 1½ in x 1 in	1RRD1
	1½ in x 1½ in x 1¼ in	1RRD2
	2 in x 2 in x 2 in	1RRD3
	2 in x 1¼ in x 1¼ in	1RRD7
	2 in x 1½ in x ¾ in	1RRD8
	2 in x 1½ in x 1 in	1RRD9
	2 in x 1½ in x 1¼ in	1RRE1
	2 in x 1½ in x 1½ in	1RRE2
	2 in x 1½ in x 2 in	1RRE3
	2 in x 2 in x ½ in	1RRE4
	2 in x 2 in x ¾ in	1RRE5
	2 in x 2 in x 1 in	1RRE6
	2 in x 2 in x 1¼ in	1RRE7
	2 in x 2 in x 1½ in	1RRE8

Need to Find Easy-to-Install Press Connection Ball and Check Valves?

See our selection of Apollo XPRESS® Ball Valves, Viega ProPress® Ball Valves, and Viega ProPress® Check Valves on page 2862, or go to Grainger.com® and search for "press ball valves" or "press check valves".

Apollo Valves

36N581

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5ULX8

Scan. Order. Done.
Details on page A1.

Zero Lead Bronze Viega ProPress Fittings

- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Create a strong, reliable, and watertight seal in seconds. Viega ProPress system allows joining of wet connections. Meet CRN, CSA, FM, IAPMO, ICC, NFPA 13, 13D and 13R, NSF/ANSI 61, NSF/ANSI 372, PHCC, and UL Listed.

Description	Tube Size	Item No.
Unions, Press x Press		
	½ in x ½ in	**5ULZ0**
	¾ in x ¾ in	**5ULZ1**
	1 in x 1 in	**5ULZ2**
	1¼ in x 1¼ in	**5ULZ3**
	1½ in x 1½ in	**5ULZ4**
	2 in x 2 in	**5ULZ5**
Unions, Press x Female Pipe Thread		
	½ in x ½ in	**5UMK1**
	¾ in x ¾ in	**5UMK2**
	1 in x 1 in	**5UMK3**
	1¼ in x 1¼ in	**5UMK4**
	1½ in x 1½ in	**5UMK5**
	2 in x 2 in	**5UMK6**
Unions, Press x Male Pipe Thread		
	½ in x ½ in	**5UMK7**
	¾ in x ¾ in	**5UMK8**
	1 in x 1 in	**5UMK9**
	3-33/54 in x 1¼ in x 1¼ in	**5UML0**
	1½ in x 1½ in	**5UML1**
	2 in x 2 in	**5UML2**

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
90° Elbows, Press x Female Pipe Thread			
	½ in x ⅜ in	½ in x ⅜ in	**5UMH1**
	½ in x ½ in	½ in x ½ in	**5UMH2**
	½ in x ¾ in	½ in x ¾ in	**5UMH3**
	¾ in x ¾ in	¾ in x ¾ in	**5UMH5**
	1 in x ½ in	1 in x ½ in	**5UMH6**
	1 in x 1 in	1 in x 1 in	**5UMH7**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5UMH8**
	1½ in x 1½ in	1½ in x 1½ in	**5UMH9**
	2 in x 2 in	2 in x 2 in	**5UMJ0**
90° High Ear Drop Elbow, w/ Wall Plate, Press x Female Pipe Thread			
	½ in x ½ in	½ in x ½ in	**5UMA5**
90° Drop Elbow, w/ Wall Plate, Press x Female Pipe Thread			
	½ in x ½ in	½ in x ½ in	**5UMA3**
	¾ in x ¾ in	¾ in x ¾ in	**20C419**
Adapter, Street x Female Pipe Thread			
	½ in x ⅜ in	½ in x ⅜ in	**5UMG0**
	½ in x ½ in	½ in x ½ in	**5UMG1**
	½ in x ¾ in	½ in x ¾ in	**5UMG2**
	¾ in x ½ in	¾ in x ½ in	**5UMG3**
	¾ in x ¾ in	¾ in x ¾ in	**5UMG4**
	1 in x 1 in	1 in x 1 in	**5UMG5**
	1 in x ½ in	1 in x ½ in	**5UMG6**
	1¼ in x ½ in	1¼ in x ½ in	**5UMG7**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5UMG8**
	1½ in x 1½ in	1½ in x 1½ in	**5UMG9**

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Adapter Flanges, Press x Flange			
	1 in	1 in	**5UMJ7**
	1¼ in	1¼ in	**5UMJ8**
	1½ in	1½ in	**5UMJ9**
	2 in	2"-4	**5UMK0**
Adapters, Press x Female Pipe Thread			
	½ in x ⅜ in	½ in x ⅜ in	**5UMD3**
	½ in x ½ in	½ in x ½ in	**5UMD4**
	½ in x ¾ in	½ in x ¾ in	**5UMD5**
	¾ in x ½ in	¾ in x ½ in	**5UMD6**
	¾ in x ¾ in	¾ in x ¾ in	**5UMD7**
	1 in x ½ in	1 in x ½ in	**5UMD8**
	1 in x ¾ in	1 in x ¾ in	**5UMD9**
	1 in x 1¼ in	1 in x 1¼ in	**5UME1**
	1¼ in x ½ in	1¼ in x ½ in	**5UME2**
	1¼ in x 1 in	1¼ in x 1 in	**5UME3**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5UME4**
	1¼ in x 1½ in	1¼ in x 1½ in	**5UME5**
	1½ in	1¼ in	**5UME6**
	1½ in x 1½ in	1½ in x 1½ in	**5UME7**
	2 in x 2 in	2 in x 2 in	**5UME9**
Adapters, Press x Male Pipe Thread			
	½ in x ⅜ in	½ in x ⅜ in	**5UMA6**
	½ in x ½ in	½ in x ½ in	**5UMA7**
	½ in x ¾ in	½ in x ¾ in	**5UMA8**
	¾ in x ½ in	¾ in x ½ in	**5UMA9**
	¾ in x ¾ in	¾ in x ¾ in	**5UMC0**
	¾ in x 1 in	¾ in x 1 in	**5UMC1**
	1 in x ¾ in	1 in x ¾ in	**5UMC2**
	1 in x 1 in	1 in x 1 in	**5UMC3**
	1 in x 1¼ in	1 in x 1¼ in	**5UMC4**
	1¼ in x 1 in	1¼ in x 1 in	**5UMC5**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5UMC6**
	1¼ in x 1½ in	1¼ in x 1½ in	**5UMC7**
	1½ in x 1¼ in	1½ in x 1¼ in	**5UMC8**
	1½ in x 1½ in	1½ in x 1½ in	**5UMC9**
	2 in x 1½ in	2 in x 1½ in	**5UMD1**
	2 in x 2 in	2 in x 2 in	**5UMD2**
Adapters, Street x Male Pipe Thread			
	½ in x ⅜ in	½ in x ⅜ in	**5UMF0**
	½ in x ½ in	½ in x ½ in	**5UMF1**
	½ in x ¾ in	½ in x ¾ in	**5UMF2**
	¾ in x ½ in	¾ in x ½ in	**5UMF3**
	¾ in x ¾ in	¾ in x ¾ in	**5UMF4**
	1 in x ¾ in	1 in x ¾ in	**5UMF5**
	1 in x 1 in	1 in x 1 in	**5UMF6**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5UMF7**
	1½ in x 1½ in	1½ in x 1½ in	**5UMF8**
	2 in x 2 in	2 in x 2 in	**5UMF9**

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Di-electric Unions, Press x Female Pipe Thread			
	¾ in x ¾ in	¾ in x ¾ in	**5ULZ7**
	1 in x 1 in	1 in x 1 in	**5ULZ8**
	1¼ in x 1¼ in	1¼ in x 1¼ in	**5ULZ9**
	1½ in x 1½ in	1½ in x 1½ in	**5UMA0**
	2 in x 2 in	2 in x 2 in	**5UMA1**
Reducers, Street x Press			
	1½ in x ½ in	1½ in x ½ in	**5UMP1**
	2 in x ½ in	2 in x ½ in	**5UMP2**
	2 in x ¾ in	2 in x ¾ in	**5UMP3**
Tailpiece, Press x Female Union			
	1 in x 1 in	1 in x 1 in	**5UMN3**
Tees, Press x Press x Female Pipe Thread (run x run x outlet)			
	¾ in x ¾ in x ½ in	¾ in x ¾ in x ½ in	**20C420**
	1¼ in x 1¼ in x ½ in	1¼ in x 1¼ in x ½ in	**5UML5**
	1¼ in x 1¼ in x ¾ in	1¼ in x 1¼ in x ¾ in	**5UML6**
	1½ in x 1½ in x ¾ in	1½ in x 1½ in x ¾ in	**5UML8**
Vent Elbows, Press x Press x Female Pipe Thread			
	½ in x ½ in x ⅛ in	½ in x ½ in x ⅛ in	**5UME8**
	¾ in x ¾ in x ⅛ in	¾ in x ¾ in x ⅛ in	**5UMJ5**

Viega ProPress Copper XL Press Fittings

- Max. pressure: 200 psi; tested to 600 psi
- Temp. range: 0° to 250°F

Offer a quick, flameless, environmentally friendly way to join K, L, or M copper tubing, without flux, solder, or gas. Must be installed with Viega ProPress XL-C rings (Pressing Ring Kit 2TE27 sold separately on page 2800). For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Description	Tube Size	Pipe Fitting Connection Type	Item No.
45° Elbow			
	2½ in x 2½ in	Press x Press	**1RPN1**
	3 in x 3 in	Press x Press	**1RPN2**
	4 in x 4 in	Press x Press	**1RPN3**
45° Street Elbow			
	2½ in x 2½ in	Press x Street	**1RPP1**
	3 in x 3 in	Press x Street	**1RPP2**
	4 in x 4 in	Press x Street	**1RPP3**
90° Elbow			
	2½ in x 2½ in	Press x Press	**1RPK1**
	3 in x 3 in	Press x Press	**1RPK2**
	4 in x 4 in	Press x Press	**1RPK3**
90° Extended Street Elbow			
	¾ in x ¾ in, 6 in	Press x Street	**4RCK5**

Description	Tube Size	Pipe Fitting Connection Type	Item No.
90° Street Elbow			
	2½ in x 2½ in	Press x Street	**1RPL1**
	3 in x 3 in	Press x Street	**1RPL2**
	4 in x 4 in	Press x Street	**1RPL3**
Adapter			
	2½ in x 2½ in	Press x FPT	**4RCJ9**
	3 in x 3 in	Press x FPT	**4RCK1**
	4 in x 4 in	Press x FPT	**4RCK2**
	2½ in x 2½ in	Press x MPT	**1RPA5**
	3 in x 3 in	Press x MPT	**1RPA6**
	4 in x 4 in	Press x MPT	**1RPA7**
Adapter Flange			
	2½ in	Press x Flange	**1WNY8**
	3 in	Press x Flange	**1WNY9**
	4"- 8	Press x Flange	**1WNZ1**
Cap			
	2½ in	Press	**1RPF6**
	3 in	Press	**1RPF7**
	4 in	Press	**1RPF8**
Coupling No Stop			
	2½ in x 2½ in	Press x Press	**1RPH6**
	3 in x 3 in	Press x Press	**1RPH7**
	4 in x 4 in	Press x Press	**1RPH8**
Coupling with Stop			
	2½ in x 2½ in	Press x Press	**1RPG6**
	3 in x 3 in	Press x Press	**1RPG7**
	4 in x 4 in	Press x Press	**1RPG8**
Reducer			
	2½ in x 1 in	Press x Press	**31EJ62**
	2½ in x 1¼ in	Press x Press	**31EJ63**
	2½ in x 2 in	Press x Press	**31EJ64**
	3 in x 1½ in	Press x Press	**31EJ65**
	4 in x 2 in	Press x Press	**31EJ66**
	4 in x 2½ in	Press x Press	**31EJ67**
	2½ in x 1 in	Street x Press	**4RCJ6**
	2½ in x 1¼ in	Street x Press	**4RCJ7**
	2½ in x 1½ in	Street x Press	**1RPY1**
	2½ in x 2 in	Street x Press	**1RPY2**
	3 in x 1¼ in	Street x Press	**4RCJ8**
	3 in x 1½ in	Street x Press	**1RPY3**
	3 in x 2 in	Street x Press	**1RPY4**
	3 in x 2½ in	Street x Press	**1RPY5**
	4 in x 2 in	Street x Press	**1RPY6**
	4 in x 2½ in	Street x Press	**1RPY7**
	4 in x 3 in	Street x Press	**1RPY8**

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Tee (run x run x outlet)			
	2½ in x 2½ in x ¾ in	Press x Press x FPT	**1WNV1**
	2½ in x 2½ in x 2 in	Press x Press x FPT	**1WNV2**
	3 in x 3 in x ¾ in	Press x Press x FPT	**1WNV3**
	3 in x 3 in x 2 in	Press x Press x FPT	**1WNV4**
	4 in x 4 in x ¾ in	Press x Press x FPT	**1WNV5**
	4 in x 4 in x 2 in	Press x Press x FPT	**1WNV6**
	2½ in x ¾ in x 2½ in	Press x Press x Press	**31EJ71**
	2½ in x 1 in x 2½ in	Press x Press x Press	**31EJ68**
	2½ in x 1¼ in x 2½ in	Press x Press x Press	**31EJ70**
	2½ in x 1½ in x 2½ in	Press x Press x Press	**31EJ69**
	2½ in x 2 in x ¾ in	Press x Press x Press	**4RCJ1**
	2½ in x 2 in x 1 in	Press x Press x Press	**4RCJ2**
	2½ in x 2 in x 1½ in	Press x Press x Press	**1RRF1**
	2½ in x 2 in x 2 in	Press x Press x Press	**1RRF2**
	2½ in x 2 in x 2½ in	Press x Press x Press	**4RCJ3**
	2½ in x 2½ in x ½ in	Press x Press x Press	**1RRF3**
	2½ in x 2½ in x ¾ in	Press x Press x Press	**1RRF4**
	2½ in x 2½ in x 1 in	Press x Press x Press	**1RRF5**
	2½ in x 2½ in x 1¼ in	Press x Press x Press	**1RRF6**
	2½ in x 2½ in x 1½ in	Press x Press x Press	**1RRF7**
	2½ in x 2½ in x 2 in	Press x Press x Press	**1RRF8**
	2½ in x 2½ in x 2½ in	Press x Press x Press	**1RRE9**
	3 in x ¾ in x 3 in	Press x Press x Press	**31EJ81**
	3 in x 1 in x 3 in	Press x Press x Press	**31EJ72**
	3 in x 1¼ in x 3 in	Press x Press x Press	**31EJ74**
	3 in x 1½ in x 3 in	Press x Press x Press	**31EJ73**
	3 in x 2 in x 2 in	Press x Press x Press	**31EJ75**
	3 in x 2 in x 2½ in	Press x Press x Press	**31EJ76**
	3 in x 2 in x 3 in	Press x Press x Press	**31EJ77**
	3 in x 2½ in x 2 in	Press x Press x Press	**31EJ78**
	3 in x 2½ in x 2½ in	Press x Press x Press	**31EJ79**
	3 in x 2½ in x 3 in	Press x Press x Press	**31EJ80**
	3 in x 3 in x ¾ in	Press x Press x Press	**1RRG1**
	3 in x 3 in x 1 in	Press x Press x Press	**1RRG2**
	3 in x 3 in x 1¼ in	Press x Press x Press	**1WNR8**
	3 in x 3 in x 1½ in	Press x Press x Press	**1WNR9**
	3 in x 3 in x 2 in	Press x Press x Press	**1WNT1**
	3 in x 3 in x 2½ in	Press x Press x Press	**1WNT2**
	3 in x 3 in x 3 in	Press x Press x Press	**1RRF9**
	4 in x 3 in x 2 in	Press x Press x Press	**31EJ82**
	4 in x 3 in x 3 in	Press x Press x Press	**31EJ83**
	4 in x 4 in x ½ in	Press x Press x Press	**31EJ84**
	4 in x 4 in x ¾ in	Press x Press x Press	**31EJ85**
	4 in x 4 in x 1 in	Press x Press x Press	**4RCJ4**
	4 in x 4 in x 1¼ in	Press x Press x Press	**4RCJ5**
	4 in x 4 in x 1½ in	Press x Press x Press	**1WNT4**
	4 in x 4 in x 2 in	Press x Press x Press	**1WNT5**
	4 in x 4 in x 2½ in	Press x Press x Press	**1WNT6**
	4 in x 4 in x 3 in	Press x Press x Press	**1WNT7**
	4 in x 4 in x 4 in	Press x Press x Press	**1WNT3**

Viega ProPress Stainless Steel Fittings

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- Max. pressure: 200 psi
- Max. temp.: 250°F

Feature the Smart Connect design that allows identification of unpressed connections and allows you to create a gas and liquid-tight seal. Meet ABS: America Bureau of Shipping, CRN 13492.5 A/B/C, ULC/ORD 213: Underwriters Laboratories (½"to 2"), UL 852, ULC/ORD C199S.

Note: Connections are only designed for use with Viega ProPress® for stainless steel pipe.

45° Elbow

Description	Tube Size	Pipe Fitting Connection Type	Item No.
45° Elbow	½ in x ½ in	Press x Press	45CF39
	¾ in x ¾ in	Press x Press	45CF43
	1 in x 1 in	Press x Press	45CF45

90° Elbow

Description	Tube Size	Pipe Fitting Connection Type	Item No.
90° Elbow	½ in x ½ in	Press x Press	45CF51
	¾ in x ¾ in	Press x Press	45CF57
	1 in x 1 in	Press x Press	45CF41

Adapter

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Adapter	½ in x ½ in	Press x Female Pipe Thread	45CF35
	½ in x ½ in	Press x Male Pipe Thread	45CF47
	¾ in x ¾ in	Press x Female Pipe Thread	45CF60
	¾ in x ¾ in	Press x Male Pipe Thread	45CF48
	1 in x 1 in	Press x Female Pipe Thread	45CF53
	1 in x 1 in	Press x Male Pipe Thread	45CF33

Cap

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Cap	½ in	Press	45CF52
	¾ in	Press	45CF61
	1 in	Press	45CF40
	2 in	Press	53UC27
	2½ in	Press	53UC15
	3 in	Press	53UC16
	4 in	Press	53UC17

Coupling w/Stop

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Coupling w/Stop	½ in x ½ in	Press x Press	45CF37 *
	½ in x ½ in	Press x Press	45CF58
	¾ in x ¾ in	Press x Press	45CF44 *
	¾ in x ¾ in	Press x Press	45CF49
	1 in x 1 in	Press x Press	45CF56 *
	1 in x 1 in	Press x Press	45CF55
	1¼ in x 1¼ in	Press x Press	53UC11
	1½ in x 1½ in	Press x Press	53UC12
	2 in x 2 in	Press x Press	53UC13
	4 in x 4 in	Press x Press	53UC14

Reducer

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Reducer	¾ in x ½ in	Street x Press	45CF54
	1 in x ½ in	Street x Press	45CF36
	1 in x ¾ in	Street x Press	45CF34
	1½ in x 1 in	Street x Press	53UC07
	2 in x ½ in	Street x Press	53UC08
	2 in x ¾ in	Street x Press	53UC09
	2 in x 1 in	Street x Press	53UC10

Tee (run x run x outlet)

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Tee (run x run x outlet)	½ in x ½ in x ½ in	Press x Press x Press	45CF46
	¾ in x ¾ in x ¾ in	Press x Press x Press	45CF50
	1 in x 1 in x 1 in	Press x Press x Press	45CF62
	1 in x 1 in x ½ in	Press x Press x Press	53UC21
	1½ in x 1½ in x 1 in	Press x Press x Press	53UC22
	2 in x 2 in x 2 in	Press x Press x Press	53UC20
	2 in x 2 in x ¾ in	Press x Press x Press	53UC23
	2 in x 2 in x 1 in	Press x Press x Press	53UC24
	4 in x 4 in x 1½ in	Press x Press x Press	53UC25

Union

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Union	½ in x ½ in	Press x Press	45CF38
	¾ in x ¾ in	Press x Press	45CF59
	1 in x 1 in	Press x Press	45CF42
	1¼ in x 1¼ in	Press x Press	53UC26

** No stop.*

Viega MegaPress Stainless Steel Fittings

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- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Provide clean, flameless connections that can withstand high temperatures, pressures, and corrosive cleaning materials. System allows you to make secure, consistent connections without diminishing the pipe wall by threading. Suitable for use from potable water in commercial projects to corrosive chemicals in industrial applications. Meet ASTM A312/A403, IAPMO, ICC, NSF/ANSI 372, and TSSA/ASME B31.1/B31.3/B31.9.

45° Elbow

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
45° Elbow	½" x ½"	Press x Press	53TZ88	53UA81
	¾" x ¾"	Press x Press	53TZ89	53UA82
	1" x 1"	Press x Press	53TZ90	53UA83
	1½" x 1½"	Press x Press	53TZ91	53UA84
	2" x 2"	Press x Press	53TZ92	53UA85

45° Street Elbow

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
45° Street Elbow	½" x ½"	Press x Street	53TZ93	53UA86
	¾" x ¾"	Press x Street	53TZ94	53UA87
	1" x 1"	Press x Street	53TZ95	53UA88
	1½" x 1½"	Press x Street	53TZ96	53UA89
	2" x 2"	Press x Street	53TZ97	53UA90

90° Elbow

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
90° Elbow	½" x ½"	Press x Press	53TZ53	53UA46
	¾" x ¾"	Press x Press	53TZ54	53UA47
	1" x 1"	Press x Press	53TZ55	53UA48
	1½" x 1½"	Press x Press	53TZ56	53UA49
	2" x 2"	Press x Press	53TZ57	53UA50

90° Street Elbow

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
90° Street Elbow	½" x ½"	Press x Street	53TZ58	53UA51
	¾" x ¾"	Press x Street	53TZ59	53UA52
	1" x 1"	Press x Street	53TZ60	53UA53
	1½" x 1½"	Press x Street	53TZ61	53UA54
	2" x 2"	Press x Street	53TZ62	53UA55

Adapter

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Adapter	½" x ½"	Press x FPT	53TZ27	53UA20
	¾" x ¾"	Press x FPT	53TZ28	53UA21
	1" x 1"	Press x FPT	53TZ29	53UA22
	1½" x 1½"	Press x FPT	53TZ30	53UA23
	2" x 2"	Press x FPT	53TZ31	53UA24
	½" x ½"	Press x MPT	—	53UA14
	¾" x ½"	Press x MPT	—	53UA15
	¾" x ¾"	Press x MPT	—	53UA16
	1" x 1"	Press x MPT	—	53UA17
	1½" x 1½"	Press x MPT	—	53UA18
	2" x 2"	Press x MPT	53TZ26	53UA19

Cap

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Cap	½"	Press	53TZ98	53UA91
	¾"	Press	53TZ99	53UA92
	1"	Press	53UA01	53UA93
	1½"	Press	53UA02	53UA94
	2"	Press	53UA03	53UA95

Coupling No Stop

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Coupling No Stop	½" x ½"	Press x Press	53TZ48	53UA41
	¾" x ¾"	Press x Press	53TZ49	53UA42
	1" x 1"	Press x Press	53TZ50	53UA43
	1½" x 1½"	Press x Press	53TZ51	53UA44
	2" x 2"	Press x Press	53TZ52	53UA45

Coupling With Stop

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Coupling With Stop	½" x ½"	Press x Press	53TZ32	53UA25
	¾" x ¾"	Press x Press	53TZ33	53UA26
	1" x 1"	Press x Press	53TZ34	53UA27
	1½" x 1½"	Press x Press	53TZ35	53UA28
	2" x 2"	Press x Press	53TZ36	53UA29

Flange

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Flange	½"	Press	53UA04	53UA96
	¾"	Press	53UA05	53UA97
	1"	Press	53UA06	53UA98
	1½"	Press	53UA07	53UA99
	2"	Press	53UA08	53UC01

Reducer

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Reducer	¾" x ½"	Press x Press	53TZ44	53UA37
	1" x ¾"	Press x Press	53TZ45	53UA38
	1½" x 1"	Press x Press	53TZ46	53UA39
	2" x 1½"	Press x Press	53TZ47	53UA40
	¾" x ½"	Press x Street	53TZ37	53UA30
	1" x ½"	Press x Street	53TZ38	53UA31
	1" x ¾"	Press x Street	53TZ39	53UA32
	1½" x ¾"	Press x Street	53TZ40	53UA33
	1½" x 1"	Press x Street	53TZ41	53UA34
	2" x 1"	Press x Street	53TZ42	53UA35
	2" x 1½"	Press x Street	53TZ43	53UA36

Tee (run x run x outlet)

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Tee (run x run x outlet)	¾" x ¾" x ½"	Press x Press x FPT	53TZ63	53UA56
	¾" x ¾" x ¾"	Press x Press x FPT	53TZ64	53UA57
	1" x 1" x ½"	Press x Press x FPT	53TZ65	53UA58
	1" x 1" x ¾"	Press x Press x FPT	53TZ66	53UA59
	1½" x 1½" x ½"	Press x Press x FPT	53TZ67	53UA60
	1½" x 1½" x ¾"	Press x Press x FPT	53TZ68	53UA61
	1½" x 1½" x 1"	Press x Press x FPT	53TZ69	53UA62
	2" x 2" x ½"	Press x Press x FPT	53TZ70	53UA63
	2" x 2" x ¾"	Press x Press x FPT	53TZ71	53UA64
	2" x 2" x 1"	Press x Press x FPT	53TZ72	53UA65
	½" x ½" x ½"	Press x Press x Press	53TZ73	53UA66
	¾" x ¾" x ½"	Press x Press x Press	53TZ78	53UA71
	¾" x ¾" x ¾"	Press x Press x Press	53TZ74	53UA67
	1" x 1" x ½"	Press x Press x Press	53TZ79	53UA72
	1" x 1" x ¾"	Press x Press x Press	53TZ80	53UA73
	1" x 1" x 1"	Press x Press x Press	53TZ75	53UA68
	1½" x 1½" x ½"	Press x Press x Press	53TZ81	53UA74
	1½" x 1½" x ¾"	Press x Press x Press	53TZ82	53UA75
	1½" x 1½" x 1"	Press x Press x Press	53TZ83	53UA76
	1½" x 1½" x 1½"	Press x Press x Press	53TZ76	53UA69
	2" x 2" x ½"	Press x Press x Press	53TZ84	53UA77
	2" x 2" x ¾"	Press x Press x Press	53TZ85	53UA78
	2" x 2" x 1"	Press x Press x Press	53TZ86	53UA79
	2" x 2" x 1½"	Press x Press x Press	53TZ87	53UA80
	2" x 2" x 2"	Press x Press x Press	53TZ77	53UA70

Union

Description	Tube Size	Pipe Fitting Connection Type	304 SS Item No.	316 SS Item No.
Union	½" x ½"	Press x Press	53UA09	53UC02
	¾" x ¾"	Press x Press	53UA10	53UC03
	1" x 1"	Press x Press	53UA11	53UC04
	1½" x 1½"	Press x Press	53UA12	53UC05
	2" x 2"	Press x Press	53UA13	53UC06

Viega MegaPressG Carbon Steel Press Fittings

- Max. pressure: 125 psi
- Temp. range: -40° to 180°F

Install fittings without completely shutting down the system and reduce installation time by up to 60% with no threading or cutting oils. Fittings include the Viega Smart Connect® feature and a durable hydrogenated nitrile butadiene rubber (HNBR) seal that resists chemicals, heat, and oil. Can be installed with ASTM A53 Schedule 5 to Schedule 40 black iron pipe. Suitable for use in compressed air, and in fuel oil and natural gas applications. Meet ANSI LC4/CSA 6.32, IAPMO, ICC, IFGC, NFPA 54 and 58.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
45° Elbow			
	½ in x ½ in	P x P	36N787
	¾ in x ¾ in	P x P	36N788
	1 in x 1 in	P x P	36N789
	1¼ in x 1¼ in	P x P	36N790
	1½ in x 1½ in	P x P	36N791
	2 in x 2 in	P x P	36N792
90° Elbow			
	½ in x ½ in	P x P	36N781
	¾ in x ¾ in	P x P	36N782
	1 in x 1 in	P x P	36N783
	1¼ in x 1¼ in	P x P	36N784
	1½ in x 1½ in	P x P	36N785
	2 in x 2 in	P x P	36N786
Adapter			
	½ in x ½ in	P x FPT	36N775
	¾ in x ½ in	P x FPT	36N819
	¾ in x ¾ in	P x FPT	36N776
	1 in x ½ in	P x FPT	31XK08
	1 in x ¾ in	P x FPT	36N820
	1 in x 1 in	P x FPT	36N777
	1¼ in x ½ in	P x FPT	31XK09
	1¼ in x ¾ in	P x FPT	31XK10
	1¼ in x 1 in	P x FPT	36N821
	1¼ in x 1¼ in	P x FPT	36N778
	1½ in x ½ in	P x FPT	31XK11
	1½ in x ¾ in	P x FPT	31XK12
	1½ in x 1 in	P x FPT	31XK13
	1½ in x 1¼ in	P x FPT	36N822
	1½ in x 1½ in	P x FPT	36N779
	2 in x 1½ in	P x FPT	36N823
	2 in x 2 in	P x FPT	36N780
	½ in x ½ in	P x MPT	36N769
	¾ in x ¾ in	P x MPT	36N770
	1 in x 1 in	P x MPT	36N771
	1¼ in x 1¼ in	P x MPT	36N772
	1½ in x 1½ in	P x MPT	36N773
	2 in x 2 in	P x MPT	36N774
Coupling No Stop			
	½ in x ½ in	P x P	36N763
	¾ in x ¾ in	P x P	36N764
	1 in x 1 in	P x P	36N765
	1¼ in x 1¼ in	P x P	36N766
	1½ in x 1½ in	P x P	36N767
	2 in x 2 in	P x P	36N768
Coupling With Stop			
	½ in x ½ in	P x P	36N758
	¾ in x ¾ in	P x P	36N757
	1 in x 1 in	P x P	36N759
	1¼ in x 1¼ in	P x P	36N760
	1½ in x 1½ in	P x P	36N761
	2 in x 2 in	P x P	36N762

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Reducer			
	¾ in x ½ in	Street x P	36N830
	1 in x ½ in	Street x P	36N831
	1 in x ¾ in	Street x P	36N832
	1¼ in x 1 in	Street x P	36N833
	1½ in x ¾ in	Street x P	36N834
	1½ in x 1 in	Street x P	36N836
	1½ in x 1¼ in	Street x P	36N835
	2 in x 1 in	Street x P	36N837
	2 in x 1¼ in	Street x P	36N838
	2 in x 1½ in	Street x P	36N839
Tee (run x run x outlet)			
	¾ in x ¾ in x ½ in	P x P x FPT	36N812
	¾ in x ¾ in x ¾ in	P x P x FPT	31XK06
	1 in x 1 in x ½ in	P x P x FPT	36N813
	1 in x 1 in x ¾ in	P x P x FPT	36N814
	1¼ in x 1¼ in x ½ in	P x P x FPT	31XK07
	1½ in x 1½ in x ½ in	P x P x FPT	36N815
	1½ in x 1½ in x ¾ in	P x P x FPT	36N816
	2 in x 2 in x ½ in	P x P x FPT	36N817
	2 in x 2 in x ¾ in	P x P x FPT	36N818
	½ in x ½ in x ½ in	P x P x P	36N793
	¾ in x ¾ in x ½ in	P x P x P	36N799
	¾ in x ¾ in x ¾ in	P x P x P	36N794
	1 in x 1 in x ½ in	P x P x P	36N801
	1 in x 1 in x ¾ in	P x P x P	36N802
	1 in x 1 in x 1 in	P x P x P	36N795
	1¼ in x 1¼ in x 1 in	P x P x P	31XK05
	1¼ in x 1¼ in x 1¼ in	P x P x P	36N796
	1½ in x 1½ in x ½ in	P x P x P	36N803
	1½ in x 1½ in x ¾ in	P x P x P	36N804
	1½ in x 1½ in x 1 in	P x P x P	36N805
	1½ in x 1½ in x 1¼ in	P x P x P	36N806
	1½ in x 1½ in x 1½ in	P x P x P	36N797
	2 in x 2 in x ½ in	P x P x P	36N807
	2 in x 2 in x ¾ in	P x P x P	36N808
	2 in x 2 in x 1 in	P x P x P	36N809
	2 in x 2 in x 1¼ in	P x P x P	36N810
	2 in x 2 in x 1½ in	P x P x P	36N811
	2 in x 2 in x 2 in	P x P x P	36N798
Union			
	½ in x ½ in	P x P	36N824
	¾ in x ¾ in	P x P	36N825
	1 in x 1 in	P x P	36N826
	1¼ in x 1¼ in	P x P	36N827
	1½ in x 1½ in	P x P	36N828
	2 in x 2 in	P x P	36N829

**P = Press*

Viega MegaPress Carbon Steel Fittings

- Max. pressure: 200 psi
- Temp. range: 0° to 250°F

Can reduce installation time up to 60% compared to welded connections. Fittings use cold press technology with no risk of smoke/fire, and connections are not contaminated with thread cutting oil or metal filings. Ideal for black, painted, and powder-coated pipe (seamless and welded). Have a durable corrosion-resistant, zinc-nickel coating and are ideal for repair or expansion of steel pipe installations. Meet FM, IAPMO, ICC, NFPA 13, 13D and 13R, TSSA/ASME B31.1/B31.3/B31.9, and UL Listed.

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
45° Elbow			
	½" x ½"	P x P	49EU31
	¾" x ¾"	P x P	49EU32
	1" x 1"	P x P	49EU33
	1¼" x 1¼"	P x P	49EU34
	1½" x 1½"	P x P	49EU35
	2" x 2"	P x P	49EU36
45° Street Elbow			
	½" x ½"	P x Street	49EU37
	¾" x ¾"	P x Street	49EU38
	1" x 1"	P x Street	49EU39
	1¼" x 1¼"	P x Street	49EU40
	1½" x 1½"	P x Street	49EU41
	2" x 2"	P x Street	49EU42
90° Elbow			
	½" x ½"	P x P	49ET81
	¾" x ¾"	P x P	49ET82
	1" x 1"	P x P	49ET83
	1¼" x 1¼"	P x P	49ET84
	1½" x 1½"	P x P	49ET85
	2" x 2"	P x P	49ET86
90° Street Elbow			
	½" x ½"	P x Street	49ET87
	¾" x ¾"	P x Street	49ET88
	1" x 1"	P x Street	49ET89
	1¼" x 1¼"	P x Street	49ET90
	1½" x 1½"	P x Street	49ET91
	2" x 2"	P x Street	49ET92
Adapter			
	½" x ½"	P x FPT	49ET32
	¾" x ¾"	P x FPT	49ET33
	1" x ½"	P x FPT	49ET39
	1" x ¾"	P x FPT	49ET40
	1" x 1"	P x FPT	49ET34
	1¼" x ½"	P x FPT	49ET41
	1¼" x ¾"	P x FPT	49ET42
	1¼" x 1"	P x FPT	49ET43
	1¼" x 1¼"	P x FPT	49ET35
	1½" x ½"	P x FPT	49ET44
	1½" x ¾"	P x FPT	49ET45
	1½" x 1"	P x FPT	49ET46
	1½" x 1¼"	P x FPT	49ET47
	1½" x 1½"	P x FPT	49ET36
	2" x ½"	P x FPT	49ET48
	2" x ¾"	P x FPT	49ET49
	2" x 1"	P x FPT	49ET50
	2" x 1¼"	P x FPT	49ET51
	2" x 1½"	P x FPT	49ET52
	2" x 2"	P x FPT	49ET37
	½" x ½"	P x MPT	49ET26
	¾" x ¾"	P x MPT	49ET27
	1" x 1"	P x MPT	49ET28
	1¼" x 1¼"	P x MPT	49ET29
	1½" x 1½"	P x MPT	49ET30
	2" x 2"	P x MPT	49ET31
Cap			
	½"	P	49EU43
	¾"	P	49EU44
	1"	P	49EU45
	1¼"	P	49EU46
	1½"	P	49EU47
	2"	P	49EU48
Coupling No Stop			
	½" x ½"	P x P	49ET75
	¾" x ¾"	P x P	49ET76
	1" x 1"	P x P	49ET77
	1¼" x 1¼"	P x P	49ET78
	1½" x 1½"	P x P	49ET79
	2" x 2"	P x P	49ET80
Coupling With Stop			
	½" x ½"	P x P	49ET53
	¾" x ¾"	P x P	49ET54
	1" x 1"	P x P	49ET55
	1¼" x 1¼"	P x P	49ET56
	1½" x 1½"	P x P	49ET57
	2" x 2"	P x P	49ET58

Description	Pipe Size - Pipe Fitting	Pipe Fitting Connection Type*	Item No.
Extended Coupling No Stop			
	½" x ½"	P x P	49ET69
	¾" x ¾"	P x P	49ET70
	1" x 1"	P x P	49ET71
	1¼" x 1¼"	P x P	49ET72
	1½" x 1½"	P x P	49ET73
	2" x 2"	P x P	49ET74
Flange			
	½"	P	49EU49
	¾"	P	49EU50
	1"	P	49EU51
	1¼"	P	49EU52
	1½"	P	49EU53
	2"	P	49EU54
Reducer			
	¾" x ½"	Street x P	49ET59
	1" x ½"	Street x P	49ET60
	1" x ¾"	Street x P	49ET61
	1¼" x 1"	Street x P	49ET62
	1½" x ¾"	Street x P	49ET63
	1½" x 1"	Street x P	49ET64
	1½" x 1¼"	Street x P	49ET65
	2" x 1"	Street x P	49ET66
	2" x 1¼"	Street x P	49ET67
	2" x 1½"	Street x P	49ET68
Tee (run x run x outlet)			
	¾" x ¾" x ½"	P x P x FPT	49ET93
	¾" x ¾" x ¾"	P x P x FPT	49EU06
	1" x 1" x ½"	P x P x FPT	49ET94
	1" x 1" x ¾"	P x P x FPT	49ET95
	1¼" x 1¼" x ½"	P x P x FPT	49EU07
	1¼" x 1¼" x ¾"	P x P x FPT	49EU09
	1¼" x 1¼" x 1"	P x P x FPT	49EU08
	1½" x 1½" x ½"	P x P x FPT	49ET96
	1½" x 1½" x ¾"	P x P x FPT	49ET97
	1½" x 1½" x 1"	P x P x FPT	49ET98
	1½" x 1½" x 1¼"	P x P x FPT	49ET99
	2" x 2" x ½"	P x P x FPT	49EU01
	2" x 2" x ¾"	P x P x FPT	49EU02
	2" x 2" x 1"	P x P x FPT	49EU03
	2" x 2" x 1¼"	P x P x FPT	49EU04
	2" x 2" x 1½"	P x P x FPT	49EU05
	½" x ½" x ½"	P x P x P	49EU10
	¾" x ¾" x ½"	P x P x P	49EU16
	¾" x ¾" x ¾"	P x P x P	49EU11
	1" x 1" x ½"	P x P x P	49EU17
	1" x 1" x ¾"	P x P x P	49EU18
	1" x 1" x 1"	P x P x P	49EU12
	1¼" x 1¼" x ½"	P x P x P	49EU28
	1¼" x 1¼" x ¾"	P x P x P	49EU29
	1¼" x 1¼" x 1"	P x P x P	49EU30
	1¼" x 1¼" x 1¼"	P x P x P	49EU13
	1½" x 1½" x ½"	P x P x P	49EU19
	1½" x 1½" x ¾"	P x P x P	49EU20
	1½" x 1½" x 1"	P x P x P	49EU21
	1½" x 1½" x 1¼"	P x P x P	49EU22
	1½" x 1½" x 1½"	P x P x P	49EU14
	2" x 2" x ½"	P x P x P	49EU23
	2" x 2" x ¾"	P x P x P	49EU24
	2" x 2" x 1"	P x P x P	49EU25
	2" x 2" x 1¼"	P x P x P	49EU26
	2" x 2" x 1½"	P x P x P	49EU27
	2" x 2" x 2"	P x P x P	49EU15
Union			
	½" x ½"	P x P	49EU55
	¾" x ¾"	P x P	49EU56
	1" x 1"	P x P	49EU57
	1¼" x 1¼"	P x P	49EU58
	1½" x 1½"	P x P	49EU59
	2" x 2"	P x P	49EU60

**P = Press*

ZURN WILKINS OETIKER®

Lead-Free PEX Crimp Fittings

- Max. pressure: 80 psi, except PEX Ball Valves are 160 psi at 73°F, 100 psi at 180°F, and 80 psi at 200°F
- Temp. range: 33° to 200°F
- Fittings are Zurn brand, except 40PR09, 40PR11, and 40PR12 are Oetiker brand

Easily install without flame, flux, or solder. Require no bonding agents, glue, or solvents. Fittings resist corrosion, mineral buildup, rust, and freeze damage. Suitable for new or retrofit construction and for hot or cold water distribution. Clamps 40PR09, 40PR11, and 40PR12 feature a narrow band for more concentrated compression and have a tamper-detectable design. 40PR09 and 40PR12 hold in place while crimped to ease installation. Fittings are certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Description	PEX Size	Zurn PEX Item No.
Coupling, PEX		
	⅜"	10A588
	½"	10A589
	¾"	10A591
	1"	10A593
	1¼"	10A510
	1½"	10A512
	2"	10A514
Crimp Clamp Ring, Clamp		
	½"	10A573
	¾"	10A574
	1"	10A575
	1¼"	10A503
	1½"	10A504
	2"	10A505
Drop Ear Elbow, 90°, PEX x FNPT		
	½"	10A580
	¾"	10A581
Elbow, 90°, PEX		
	½"	10A603
	¾"	10A604
	1"	10A605
	1¼"	10A515
	1½"	10A516
	2"	10A517
Elbow, 90°, PEX x Female Swivel		
	½"	10A539
Elbow, 90°, PEX x MNPT		
	½"	10A602
Elbow Stubout, 90°, PEX		
	½"	10A607
	½"	10A609
	¾"	10A610
	1"	10A611

Description	PEX Size	Zurn PEX Item No.
PEX and Pipe Adapter, PEX x Female Swivel		
	¾"	10A541
	¾"	10A542
	1"	10A543
PEX and Pipe Adapter, PEX x FNPT Nonswivel		
	½"	10A583
	¾"	10A585
	1"	10A586
	1¼"	10A532
	1½"	10A533
PEX and Pipe Adapter, PEX x MNPT		
	½"	10A582
	¾"	10A584
	1"	10A587
	1¼"	10A518
	1½"	10A519
	2"	10A520
PEX and Sweat Adapter, PEX x Female Sweat		
	½"	10A598
	¾"	10A601
PEX and Sweat Adapter, PEX x Sweat		
	½"	10A597
	¾"	10A599
	1¼"	10A507
	1½"	10A508
	2"	10A506
Plug, PEX		
	1¼"	10A521
	1½"	10A522
	2"	10A523
Reducing Coupling, PEX		
	¾" x ½"	10A590
	1" x ¾"	10A592
	1¼" x 1"	10A509
	1½" x 1¼"	10A511
	2" x 1½"	10A513

Description	PEX Size	Zurn PEX Item No.
Reducing Tee (run x run x outlet), PEX		
	1" x ¾" x ¾"	48UH65
	1" x 1" x ¾"	48UH66
	1" x 1" x ½"	48UH67
	1¼" x 1¼" x ½"	10A524
	1¼" x 1¼" x ¾"	10A525
	1½" x -1-1/2" x ¾"	10A527
	1½" x 1½" x 1"	10A528
	2" x 2" x 1"	10A530
Stubout, PEX		
	½"	10A606
Stubout, PEX with Flange		
	½"	10A612
Tee, PEX		
	½"	10A594
	¾"	10A595
	1"	10A596
	1¼"	10A526
	1½"	10A529
	2"	10A531
Transition Coupling, PEX		
	½"	10A544
	¾"	10A545

Description	Connection	Nom. Size (in.)	W (in.)	Closed - Open (in.)	Oetiker Item No.
Pex Clamp					
	PEX Crimp	½	0.276	0.563-0.689	40PR12
	PEX Crimp	¾	0.354	0.791-0.917	40PR09
	PEX Crimp	1	0.394	1.039-1.165	40PR11

ZURN WILKINS OETIKER®

Manual PEX Tools and PEX Manifolds

10A633

MANUAL PEX TOOLS

52DD79 to 52DD83 meet ASTM F1807.

10A618 and 10A619 apply the correct pressure to create a leak-free crimp connection. Use with annealed copper crimp rings, Qick/Sert1 or QickSert CR fittings, and Zurn PEX tubing.

10A622 is used to make a copper crimp ring connection. For use with 1¼", 1½", and 2" Zurn PEX copper crimp rings on Zurn PEX DZR and Zurn PEX XL insert fittings.

40PR13 and 40PR14 used with ear clamps will not release until the clamp is fully closed to help ensure a leak-free connection.

QUICK PORT MANIFOLDS

- Max. working pressure: 100 psi
- Temp. range: 33° to 200°F

Use to supply different fixtures from a main line and feature controllable water distribution, increased water flow, and no inline below-floor fittings. Certified for use in potable water applications. Meet ASTM F877 F1807.

Item	Size	PEX Size	Includes	Brand	Item No.
Manual PEX Tools					
Crimp Clamp Ring	—	½ in	—	Zurn PEX	52DD79
	—	¾ in	—	Zurn PEX	52DD80
	—	1 in	—	Zurn PEX	52DD81
	—	1¼ in	—	Zurn PEX	52DD82
	—	1½ in	—	Zurn PEX	52DD83
Pex Crimp Tool	½ in, ¾ in, ⅜ in, ⅝ in	—	Crimp Ring Removal Tool and Go, No Go Gauge, Nylon Carrying Case	Zurn PEX	52DD87
PEX Tool	½ in	—	Crimp Gauge	Zurn PEX	10A618
	¾ in	—	Crimp Gauge	Zurn PEX	10A619
	1 ½ in, 1 ¼ in, 2 in	—	Crimp Gauge, Hex Wrench, Socket	Zurn PEX	10A622

Description	Material	Type	Brand	Item No.
Ratchet Pincers				
Ratchet Pincer	Forged Steel	PEX Fitting	Oetiker	40PR13
Ratchet Pincer with Handle	Forged Steel	PEX Fitting	Oetiker	40PR14

Inlet Size	Outlet Size	Pipe Fitting Connection Type	Overall Length	Mounting Hole Size	Brand	Item No.
Quick Port Manifolds						
1 in	½ in	MNPS	26 ⅜ in	0.25 in	Zurn PEX	10A633
1 in	½ in	MNPS	26 ⅜ in	0.25 in	Zurn PEX	10A636 †
1 in	½ in	MNPS	37 ⁷⁄₁₆ in	0.25 in	Zurn PEX	10A638 †

† 10A636 includes (24) 3/8" ball valves. 10A638 includes (36) 3/8" ball valves.

10A618

Lead-Free Push-Fit DZR Brass Fittings

- Max. pressure: 200 psi
- Max. temp.: 200°F, except 19F918 is 150°F, 49EL56 and 49EL58 are 250°F

Push-fit connection requires no clamps, glue, soldering, tools, or unions to help ease installation. Use with hydronic heating and potable water; approved for underground and behind-wall systems without access panels. For residential and commercial whole-house installations, water heater repairs, and sillcock or water filter replacement. Certified for use in potable water applications.

Description	Tube Size	Item No.
Coupling, Push-Fit		
	¼ in	19F906
	⅜ in	31LC79
	½ in	31LC71 *
	½ in	19F852
	¾ in	31LC70 *
	¾ in	19F853
	1 in	19F863
Drop Ear Elbow, 90°, Push-Fit		
	½ in	19F881
Elbow, Push-Fit x GHT		
	¼ in x ¾ in GHT	31LC77
Elbow, Push-Fit		
	⅜ in	31LC90
Elbow, 90°, Push-Fit		
	¼ in	19F919
	½ in x ⅜ in	19F909
	½ in	19F854
	¾ in	19F855
	1 in	19F865
End Stop, Push-Fit		
	½ in	19F856
	¾ in	19F861
	1 in	19F870
Female Adapter, Push-Fit x FNPT		
	½ in	19F866
	¾ in	19F872
	1 in	19F882
Female Elbow, 90°, Push-Fit		
	½ in	19F879

Description	Tube Size	Item No.
Female Hy-Ear Elbow, 90°, Push-Fit x FNPT		
	½ in	19F896
Female Reducing Adapter, Push-Fit x FNPT		
	¼ in	19F899
	½ in	19F895
	¾ in	19F916
Fitting Reducer, Push-Fit		
	1 in x ¾ in	19F898
	1 in x ½ in	19F905
Male Adapter, Push-Fit x MNPT		
	½ in	19F859
	¾ in	19F858
	1 in	19F874
Male Elbow, 90°, Push-Fit x MNPT		
	⅜ in	19F907
Male Reducing Adapter, Push-Fit x MNPT		
	¼ in	19F917
	½ in	19F883
	¾ in	19F897
	1 in	19F887
Pressure Gauge, Push-Fit		
	¾ in	49EL57
Reducing Coupling, Push-Fit		
	⅜ in x ½ in	49EL55
	¾ in x ½ in	19F873
	1 in x ¾ in	19F877

Description	Tube Size	Item No.
Reducing Elbow, 90°, Push-Fit		
	¾ in x ½ in	19F878
Reducing Tee, Push-Fit		
	¾ in x ½ in x ¾ in	19F885
	¾ in x ½ in x ½ in	19F880
	¾ in x ¾ in x ½ in	19F867
	1 in x 1 in x ¾ in	19F893
Slip Coupling, Push-Fit		
	½ in	45RF57
	½ in	19F871
	¾ in	45RF58
	¾ in	19F869
	1 in	45RF59
	1 in	19F888
Slip Tee, Push-Fit		
	½ in	45RF60
	½ in	31LC86
	¾ in	45RF62
	¾ in	31LC88
	1 in	45RF64
Swivel Elbow, 90°, Push-Fit		
	½ in	19F884
Tee, Push-Fit		
	¼ in	19F908
	½ in	19F860
	¾ in	19F864
	1 in	19F886
Temperature Gauge, Push-Fit		
	½ in	49EL56
	¾ in	49EL58
Transition Coupling, Push-Fit		
	½ in	45RF66
	¾ in	45RF67
	1 in	45RF68

Description	Tube Size	Item No.
Water Heater Installation Kit, Push-Fit x FNPT		
	½ in x ¾ in	19F901
	¾ in x ¾ in	19F910

Description	Pipe Size - Pipe Fitting	Item No.
Male Adapter		
	½ in	45RF54
	¾ in	45RF55
	1 in	45RF56

Description	Hose Length	Fitting Type	Item No.
Flexible Hose Assembly, Brass ¾ in FIP x Brass ¾ in F Push-to-Connect			
	12 in	FIP x Push To Connect	19F891
	15 in		19F892
	18 in		19F875
	24 in		19F894

Description	Pipe Size	Item No.
Flexible Hose Coupling, Push-Fit		
	¾ in x 18 in	49EL54

Description	Hose Length	Fitting Type	Item No.
Flexible Hose Assembly, Brass ¾ in FIP x Brass ¾ in F Push-to-Connect			
	12 in	FIP x Push To Connect	19F891
	15 in		19F892
	18 in		19F875
	24 in		19F894

** Connects Polybutylene Pipe to CPVC, PEX or Copper.*

Push-Fit Accessories

Allow you to easily install and disassemble SharkBite fittings and valves without the need for glue, solder, or clamping. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

DISCONNECT CLIPS AND DISCONNECT TONGS

High-density plastic clips and stainless steel tongs for removal and installation of SharkBite fittings and valves.

PEX STIFFENERS

Help to stiffen PEX tubing for an easier push-fit connection.

DEBURRING TOOL

Use to smooth the rough edges on cut pipe and can also be used to mark pipes for accurate installation.

26-PC. PUSH FIT KIT

Comes with commonly used push-fit fittings and tools. See the full list of kit contents on Grainger.com.

Tube Size	Disconnect Clip, Plastic Item No.	Disconnect Tongs, Stainless Steel Item No.	Disconnect and Gauge Clip, PVC Item No.
½ in	1DJC4	52JR56	45RF69
¾ in	1DJC6	52JR57	45RF70
1 in	1DJC8	52JR58	45RF71

Pipe Size - Pipe Fitting	PEX Stiffener, Copper Item No.
1¼ in	20XW38
1½ in	20XW39
2 in	20XW40

Tube Size	Deburring Tool, Plastic Item No.
1 in, ½ in, ¼ in, ¾ in, ⅜ in, ⅝ in	1DJD1

Tube Size	26-Pc. Push-Fit Kit, DZR Brass Item No.
Assorted	19F868

Lead-Free Instant Push-Fit Brass Ball Valves

- Max. pressure: 200 psi CWP
- Max. temp.: 200°F

Easy-to-install connection requires no clamps, glue, soldering, tools, or unions. Lead-free brass stem and ball, and EPDM seals. Certified for use in potable water applications. Meet cUPC, UPC, IAMPO, and IPC; except 49EL59 meets ASSE 1061 and is NSF 61 Certified.

Pipe Size	Port	Body Material	Item No.
½ in	Full	Lead-Free Naval Brass, Arsenical	**19F862**
¾ in			**19F857**
1 in			**19F876**

19F862

Lead-Free Compression and Push-Fit Brass Supply Stops

- Max. pressure: 200 psi
- Temp. range: 40° to 180°F, except Connectors are 0° to 200°F, and Tee Stop Valves are 32° to 200°F

Require no clamps, glue, or soldering; can be rotated after assembly to ease installation in tight spaces. Easy to disconnect. Use with flexible service lines and fixtures such as dishwashers, faucets, icemakers, toilets, etc. Certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Body Style	Body Material	Inlet Size	Outlet Size	Inlet Type	Outlet Type	Item No.
Quarter-Turn Supply Stop						
Angle	Brass	½ in	⅜ in	Sharkbite	Comp Angle Stop	**19F889**
Straight	Brass	½ in	⅜ in	Compression	Compression	**19F890**

Description	Tube Fitting Material	Tube Size	Pipe Fitting Connection Type	Item No.
Connectors				
Stop Adapter	DZR Brass	¼ in x ⅜ in	Push-Fit	**19F913**
Ballcock Connector	Chrome Plated DZR Brass	¼ in	Push-Fit x FNPT	**19F914**
Ballcock Elbow	Chrome Plated DZR Brass	¼ in	Push-Fit	**19F915**
Faucet Connector	Chrome Plated DZR Brass	¼ in	Push-Fit x FNPT	**19F904**

PEX Size	Tube Fitting Material	Pipe Fitting Connection Type	Item No.
Tee* Stop Valves			
½" x ¼"	Chrome Plated DZR Brass	Push x Compression	**45RF72**
		Push x Push	**45RF76**
½" x ⅜"		Push x Compression	**45RF73**
¾" x ¼"		Push x Compression	**45RF74**
¾" x ⅜"		Push x Compression	**45RF75**

*** Tees read: run x run x outlet.***

19F913

19F915

45RF72

PEX Nonbarrier Tubing

Offers high burst pressure ratings, high tensile strength, and is chlorine resistant. Suitable for cold and hot water distribution. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

10A660

PEX Size	Tube Color	Inside Dia.	Outside Dia.	Tube Length	Max. Pressure	Temp. Range	Mfr. Model	Item No.
⅛ in	White	5/32 in	¼ in	100 ft	100 psi	33 °F to 180 °F	Q0PC100	**10A671**
½ in	Blue	15/32 in	½ in	10 ft	160 psi	35 °F to 180 °F	QB3PS10XBLUE	**30VX38**
	Blue	15/32 in	⅝ in	100 ft	100 psi	33 °F to 180 °F	Q3PC100XBLUE	**10A666**
	Blue	15/32 in	⅝ in	500 ft	100 psi	33 °F to 180 °F	Q3PC500XBLUE	**10A651**
	Blue	31/64 in	⅝ in	300 ft	100 psi	33 °F to 180 °F	Q3PC300XBLUE	**10A650**
	Red	3/64 in	⅝ in	100 ft	100 psi	33 °F to 180 °F	Q3PC100XRED	**10A658**
	Red	3/64 in	⅝ in	300 ft	100 psi	33 °F to 180 °F	Q3PC300XRED	**10A659**
	Red	7/16 in	⅝ in	500 ft	100 psi	33 °F to 180 °F	Q3PC500XRED	**10A660**
	Red	15/32 in	⅝ in	10 ft	160 psi	35 °F to 180 °F	QB3PS10XRED	**30VX37**
	White	3/64 in	⅝ in	100 ft	100 psi	33 °F to 180 °F	Q3PC100X	**10A645**
	White	3/64 in	⅝ in	300 ft	100 psi	33 °F to 180 °F	Q3PC300X	**10A653**
	White	15/32 in	⅝ in	500 ft	100 psi	33 °F to 180 °F	Q3PC500X	**10A646**
¾ in	Blue	43/64 in	⅞ in	100 ft	100 psi	33 °F to 180 °F	Q4PC100XBLUE	**10A667**
	Blue	43/64 in	⅞ in	300 ft	100 psi	33 °F to 180 °F	Q4PC300XBLUE	**10A652**
	Blue	43/64 in	⅞ in	500 ft	100 psi	33 °F to 180 °F	Q4PC500XBLUE	**10A668**
	Blue	11/16 in	¾ in	10 ft	160 psi	35 °F to 180 °F	QB4PS10XBLUE	**30VX41**
	Red	43/64 in	⅞ in	100 ft	100 psi	33 °F to 180 °F	Q4PC100XRED	**10A661**
	Red	43/64 in	⅞ in	300 ft	100 psi	33 °F to 180 °F	Q4PC300XRED	**10A662**
	Red	43/64 in	⅞ in	500 ft	100 psi	33 °F to 180 °F	Q4PC500XRED	**10A663**
	Red	11/16 in	¾ in	10 ft	160 psi	35 °F to 180 °F	QB4PS10XRED	**30VX40**
	White	43/64 in	⅞ in	300 ft	100 psi	33 °F to 180 °F	Q4PC300X	**10A654**
	White	43/64 in	⅞ in	500 ft	100 psi	33 °F to 180 °F	Q4PC500X	**10A655**
	White	11/16 in	⅞ in	10 ft	160 psi	35 °F to 180 °F	QB4PS10X	**30VX39**
1 in	Blue	27/32 in	1 in	10 ft	160 psi	35 °F to 180 °F	QB5PS10XBLUE	**30VX44**
	Blue	55/64 in	1 ⅛ in	100 ft	100 psi	33 °F to 180 °F	Q5PC100XBLUE	**10A669**
	Blue	55/64 in	1 ⅛ in	300 ft	100 psi	33 °F to 180 °F	Q5PC300XBLUE	**10A670**
	Red	55/64 in	1 ⅛ in	100 ft	100 psi	33 °F to 180 °F	Q5PC100XRED	**10A664**
	Red	55/64 in	1 ⅛ in	300 ft	100 psi	33 °F to 180 °F	Q5PC300XRED	**10A665**
	White	27/32 in	1 in	10 ft	160 psi	35 °F to 180 °F	QB5PS10X	**30VX42**
	White	55/64 in	1 ⅛ in	100 ft	100 psi	33 °F to 180 °F	Q5PC100X	**10A656**
	White	55/64 in	1 ⅛ in	500 ft	100 psi	33 °F to 180 °F	Q5PC500X	**10A657**
1 ¼ in	White	1 3/64 in	1 ⅜ in	100 ft	100 psi	33 °F to 180 °F	Q6PC100X	**10A642**
1 ½ in	White	1 ¼ in	1 ⅝ in	100 ft	100 psi	33 °F to 180 °F	Q7PC100X	**10A643**
2 in	White	1 ⅝ in	2 ⅛ in	100 ft	100 psi	33 °F to 180 °F	Q8PC100X	**10A644**

JG *Super Speedfit*®

CTS Twist-and-Lock Fittings

- Max. pressure: 160 psi
- Max. temp.: 200°F

Create a leakproof connection with copper, CPVC, and PEX tubing. Toolless installation is good in tight spaces. Suitable for cold and hot water distribution, potable water distribution, and hydronic heating systems. Meet ASSE 1061, 1GC 188; ASTM F876, F877; ICC; NSF/ANSI 14; UPC; and are CSA B137-5 Certified.

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Coupler			
	½ in	Tube	**16T737**
	¾ in	Tube	**16T738**
	1 in	Tube	**16T739**
Female Ballcock Connector			
	½ in x ⅞ in to 15/16 in	Tube x UNS	**16T757**
Female Ballcock Elbow, 90°			
	½ in x ⅞ in to 15/16 in	Tube x UNS	**16T755**
Female Connector			
	¾ in	Tube x FNPT	**16T763**
Female Drop Ear Elbow, 90°			
	½ in	Tube x FNPT	**16T774**
Female Swivel Connector			
	½ in	Tube x FNPT	**16T756**
Female Swivel Elbow, 90°			
	½ in	Tube x FNPS	**16T754**

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Male Connector			
	½ in	Tube x MNPT	**16T758**
	½ in	Tube x MNPT	**16T759**
	¾ in	Tube x MNPT	**16T760**
	1 in	Tube x MNPT	**16T761**
	1 in	Tube x MNPT	**16T762**
Male Fixed Elbow, 90°			
	½ in	Tube x NPT	**16T767**
Pipe Insert			
	½ in	Tube	**16T768**
	¾ in	Tube	**16T769**
	1 in	Tube	**16T770**
Reducer			
	¾ in x ½ in	Tube	**16T740**
	1 in x ¾ in	Tube	**16T741**
Reducing Coupler			
	¾ in x ½ in	Tube	**16T742**
	1 in x ¾ in	Tube	**16T743**
Reducing Elbow, 90°			
	¾ in x ½ in	Tube	**16T744**
Reducing Tee (run x run x outlet)			
	½ in x ½ in x ¾ in	Tube	**16T749**
	¾ in x ½ in x ½ in	Tube	**16T748**
	¾ in x ½ in x ¾ in	Tube	**16T750**
	¾ in x ¾ in x ½ in	Tube	**16T747**

Description	Tube Size	Pipe Fitting Connection Type	Item No.
Slip Connector			
	½ in	Tube	**16T726**
	¾ in	Tube	**16T728**
Slip Tee Connector			
	½ in	Tube	**16T727**
	¾ in	Tube	**16T729**
Stackable Tee (run x run x outlet)			
	½ in	Tube	**16T751**
	¾ in	Tube	**16T753**
	¾ in x ¾ in x ½ in	Tube	**16T752**
Stem Elbow, 90°			
	½ in	Tube	**16T745**
	¾ in	Tube	**16T746**
Test Cap			
	½ in	Tube	**16T764**
	¾ in	Tube	**16T765**
	1 in	Tube Slim	**16T766**
Union Elbow, 90°			
	½ in	Tube	**16T734**
	¾ in	Tube	**16T735**
	1 in	Tube	**16T736**
Union Tee			
	½ in	Tube	**16T731**
	¾ in	Tube	**16T732**
	1 in	Tube	**16T733**

Description	Tube Fitting Material	Tube Size	Item No.
Pipe Clip			
	PEX	½ in	**16T771**
	PEX	¾ in	**16T772**
	PEX	1 in	**16T773**
Pipe Clip Spacer			
	PEX	—	**16T730**

For ABS Solvent Cement, see page 2822.

+GF+ GEORG FISCHER PIPING SYSTEMS

PVC Pipe & Pipe Nipples, Schedule 40 & 80

Polyvinyl chloride, or PVC, is a strong thermoplastic that resists ultraviolet (UV) light, acids, alkalis, oils, and many corrosive inorganic chemicals, making it resistant to the corrosive effects of sewage. Lightweight and nonflammable with good electrical insulation properties, and its smooth interior walls resist scaling. Connect with pipe fittings to transport potable water, corrosive liquids, and sewage in industrial and commercial applications. Threaded pipe use PTFE tape to secure seal. **Schedule 40 pipe** has thicker walls than Schedule 10, but not as thick as Schedule 80 pipe. **Schedule 80 pipe** has thicker walls than Schedule 40, but not as thick as Schedule 160 pipe.

SCHEDULE 40: Low-pressure (100-299 psi). For lower pressure, cold water applications.

Nominal Pipe Size	10 ft Item No.	
Schedule 40 Unthreaded Low Pressure Pipe, White		
½"	5AFJ2	*
¾"	5AFJ3	*
1"	5AFJ4	*
1¼"	5AFJ5	*
1½"	5AFJ6	*
2"	5AFJ7	*
2½"	5AFJ8	*
3"	5AFJ9	*
4"	5AFK0	*
6"	22FR48	*
8"	22FR49	*

** GF Piping Systems brand.*

Schedule 40 Unthreaded 5AFJ2

SCHEDULE 80: Medium-pressure (300-999 psi). For use in cold, potable water applications.

Schedule 80 Fully Threaded 3TNV7

Nominal Pipe Size	Overall Length	Connection Type	Item No.
Schedule 80 Fully Threaded Medium Pressure Pipe Nipples, Gray			
½"	1 13⁄100"	MNPT	3TNV7
¾"	1 19⁄50"	MNPT	6MV96
1¼"	1 63⁄100"	MNPT	6MW14
1½"	1¾"	MNPT	6MW25
2½"	2½"	MNPT	1VFT5
3"	2 63⁄100"	MNPT	1VFX3
4"	2 22⁄25"	MNPT	1VFZ1

Schedule 80 Threaded on One End 3HFN2

	Overall Length				
Nominal Pipe Size	2" Item No.	3" Item No.	4" Item No.	6" Item No.	12" Item No.
Schedule 80 Threaded on One End Medium Pressure Pipe Nipples, MNPT, Gray					
¼"	—	3HFN2	3HFN3	3HFN4	3HFN5
⅜"	3HFN6	3HFN7	3HFN8	3HFN9	3HFP1
½"	3HFP2	3HFP3	3HFP4	3HFP5	3HFP6
¾"	3HFP7	3HFP8	3HFP9	3HFR1	3HFR2
1"	3HFR3	3HFR4	3HFR5	3HFR6	3HFR7
1¼"	3HFR8	3HFR9	3HFT1	3HFT2	3HFT3
1½"	3HFT4	3HFT5	3HFT6	3HFT7	3HFT8
2"	3HFT9	3HFU1	3HFU2	3HFU3	3HFU4
2½"	—	3HFU5	3HFU6	3HFU7	3HFU8
3"	—	3HFU9	3HFV1	3HFV2	3HFV3
4"	—	—	3HFV4	3HFV5	3HFV6

	Overall Length								
Nominal Pipe Size	2" Item No.	2½" Item No.	3" Item No.	4" Item No.	5" Item No.	6" Item No.	8" Item No.	10" Item No.	12" Item No.
Schedule 80 Threaded on Both Ends Medium Pressure Pipe & Pipe Nipples, MNPT, Gray									
½"	6MV88	—	6MV89	6MV90	6MV91	6MV92	6MV93	6MV94	6MV95
¾"	6MV87	—	6MV98	6MV99	6MW01	6MW02	6MW03	—	6MW05
1"	6MW06	—	6MW07	6MW08	6MW09	6MW10	6MW11	6MW12	6MW13
1¼"	22JZ07	—	6MW17	6MW19	6MW20	6MW21	3TNV8	3TNV9	6MW24
1½"	6MW26	—	22JZ08	6MW27	6MW28	6MW29	6MW30	3TNW1	6MW32
2"	22EX96	6MW33	6MW34	6MW35	6MW36	6MW37	6MW38	3TNW2	6MW40
2½"	—	—	1VFT7	1VFT9	1VFV2	1VFV4	1VFV6	22JZ09	1VFX1
3"	—	—	1VFX5	1VFX7	1VFX9	1VFY2	1VFY4	1VFY6	1VFY8
4"	—	—	22EX99	1VFZ3	1VFZ5	1VFZ7	1VFZ9	1VGA2	1VGA4
6"	—	—	—	22EY02	—	22EY03	22EY04	22EY05	22EY06

Schedule 80 Threaded on Both Ends 6MV87

PVC Pressure Pipe Fittings, Schedule 40

- White color
- Tees read: run x run x outlet

Polyvinyl chloride, or PVC, pipe fittings connect with pipe to transport potable water, corrosive liquids, and sewage in industrial and commercial applications, in irrigation and other outdoor cold water applications. PVC is a strong thermoplastic that resists ultraviolet (UV), acids, alkalis, oils, and many corrosive inorganic chemicals, making it resistant to the corrosive effects of sewage. Lightweight PVC is nonflammable with good electrical insulation properties, and its smooth interior walls resist scaling. Threaded connections use PTFE tape to secure seal.

Threaded x threaded—These fittings are threaded on all connection ends.

Socket x threaded—Include one socket (hub or slip) end and one threaded end. Socket ends require glue or adhesive to secure connection.

Spigot x threaded—Fittings include one spigot (or street) end and a threaded end. The spigot end connects to another fitting and requires glue or adhesive for a secure seal.

Spigot x spigot— Include spigots on both ends to fit inside sockets on other fittings. Spigots require glue or adhesive to secure the connection. Spigot ends are needed when a fitting connects to another fitting.

Socket x spigot—These fittings include a socket (hub or slip) end that fits over a pipe and a spigot (also known as street) end that fits inside a socket. Fittings require glue or adhesive to secure the connection.

Socket x socket—These fittings, also called slip or hub fittings, include socket ends on all fitting connection ends. The socket ends fit over the end of a PVC pipe and require glue or adhesive to secure the connection.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
Threaded x Threaded Schedule 40 Pipe Fittings					
90° Elbow					
	½" x ½"	FNPT	600	32° to 140° F	22FJ74
	¾" x ¾"	FNPT	280	32° to 140° F	22FJ97
	1¼" x 1¼"	FNPT	370	32° to 140° F	22FL93
	1½" x 1½"	FNPT	450	32° to 140° F	22FL94
	2" x 2"	FNPT	330	32° to 140° F	22FL95
90° Street Elbow					
	½" x ½"	FNPT x MNPT	600	32° to 140° F	22FJ87
	¾" x ¾"	FNPT x MNPT	480	32° to 140° F	22FJ98
	1" x 1"	FNPT x MNPT	450	32° to 140° F	22FJ82
	1½" x 1½"	FNPT x MNPT	330	32° to 140° F	22FM03
Cap					
	½"	FNPT	600	0° to 140° F	22FJ33
	¾"	FNPT	480	0° to 140° F	22FJ39
	1½"	FNPT	330	0° to 140° F	22FJ27
	2½"	FNPT	300	0° to 140° F	22FM71
	3"	FNPT	260	0° to 140° F	22FM72
	4"	FNPT	220	0° to 140° F	22FM73
Coupling					
	½" x ½"	FNPT	600	32° to 140° F	22FJ47
	¾" x ½"	FNPT	480	32° to 140° F	22FM24
	¾" x ¾"	FNPT	480	32° to 140° F	22FJ52
	1" x ¾"	FNPT	450	32° to 140° F	22FM25
	1" x 1"	FNPT	450	32° to 140° F	22FJ45
	2" x 2"	FNPT	280	32° to 140° F	22FM23
Hex Head Cap					
	1"	FNPT	450	0° to 140° F	22FJ31
	1¼"	FNPT	370	0° to 140° F	22FJ29
	2"	FNPT	280	0° to 140° F	22FJ36
Hex Head Plug					
	½"	MNPT	600	0° to 140° F	22FK10
	¾"	MNPT	480	0° to 140° F	22FK12
	1"	MNPT	450	0° to 140° F	22FK09
	1¼"	MNPT	370	0° to 140° F	22FK08
	1½"	MNPT	330	0° to 140° F	22FK07

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
	2"	MNPT	280	0° to 140° F	22FK11
	2½"	MNPT	300	0° to 140° F	22FM76
	3"	MNPT	260	0° to 140° F	22FM77
	4"	MNPT	220	0° to 140° F	22FM78
Reducing Bushing					
	⅜" x ¼"	MNPT x FNPT	480	32° to 140° F	22FM60
	½" x ⅜"	MNPT x FNPT	480	32° to 140° F	22FM61
	¾" x ¼"	MNPT x FNPT	480	32° to 140° F	22FM62
	¾" x ⅜"	MNPT x FNPT	480	32° to 140° F	22FM63
	¾" x ½"	MNPT x FNPT	480	32° to 140° F	22FK66
	1" x ½"	MNPT x FNPT	450	32° to 140° F	22FK44
	1" x ¾"	MNPT x FNPT	450	32° to 140° F	22FK47
	1¼" x ¾"	MNPT x FNPT	370	32° to 140° F	22FK39
	1¼" x 1"	MNPT x FNPT	450	32° to 140° F	22FK34
	1½" x ½"	MNPT x FNPT	330	32° to 140° F	22FM66
	1½" x ¾"	MNPT x FNPT	330	32° to 140° F	22FK29
	1½" x 1"	MNPT x FNPT	330	32° to 140° F	22FK24
	1½" x 1¼"	MNPT x FNPT	330	32° to 140° F	22FK23
	2" x 1"	MNPT x FNPT	280	32° to 140° F	22FK58
	2" x 1¼"	MNPT x FNPT	280	32° to 140° F	22FM67
	2" x 1½"	MNPT x FNPT	280	32° to 140° F	22FK53
	3" x 2"	MNPT x FNPT	260	32° to 140° F	22FM68
Riser Extender					
	½" x ½"	MNPT x FNPT	600	32° to 140° F	22FK06
Tee					
	½"	FNPT	600	32° to 140° F	22FL01
	¾"	FNPT	480	32° to 140° F	22FL07
	1"	FNPT	450	32° to 140° F	22FK97
	1¼"	FNPT	370	32° to 140° F	22FL80
	1½"	FNPT	330	32° to 140° F	22FL81

CONTINUED

CONTINUED PVC Pressure Pipe Fittings, Schedule 40

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
Union	½" x ½"	FNPT	600	32° to 140° F	22FM79
	¾" x ¾"	FNPT	480	32° to 140° F	22FM80
	1" x 1"	FNPT	450	32° to 140° F	22FM81
	1¼" x 1¼"	FNPT	370	32° to 140° F	22FM82
	1½" x 1½"	FNPT	330	32° to 140° F	22FM83
	2" x 2"	FNPT	280	32° to 140° F	22FM84
Socket x Threaded Schedule 40 Pipe Fittings					
90° Elbow	½" x ½"	F Socket x FNPT	600	32° to 140° F	22FJ88
	¾" x ¾"	F Socket x FNPT	480	32° to 140° F	22FJ99
	1" x 1"	F Socket x FNPT	450	32° to 140° F	22FJ83
	1¼" x 1¼"	F Socket x FNPT	280	32° to 140° F	22FJ79
	1½" x 1½"	F Socket x FNPT	370	32° to 140° F	22FJ76
	2" x 2"	F Socket x FNPT	280	32° to 140° F	22FJ92
	3" x 3"	F Socket x FNPT	330	32° to 140° F	22FL89
90° Reducing Elbow	¾" x ½"	F Socket x FNPT	480	32° to 140° F	22FL30
	1" x ½"	F Socket x FNPT	450	32° to 140° F	22FL31
	1" x ¾"	F Socket x FNPT	450	32° to 140° F	22FL32
	2" x 1"	F Socket x FNPT	280	32° to 140° F	22FL92
90° Side Inlet Elbow	½" x ½" x ½"	F Socket x F Socket x NPT	600	32° to 140° F	22FL28
	¾" x ½" x ½"	F Socket x F Socket x NPT	480	32° to 140° F	22FL38
	1" x ½" x ½"	F Socket x F Socket x NPT	450	32° to 140° F	22FL37
90° Street Elbow	½" x ½"	MNPT x F Socket	600	32° to 140° F	22FJ89
	¾" x ¾"	MNPT x F Socket	480	32° to 140° F	22FK01
	1" x 1"	MNPT x F Socket	450	32° to 140° F	22FJ84
	1¼" x 1¼"	MNPT x F Socket	450	32° to 140° F	22FJ80
	1½" x 1½"	MNPT x F Socket	370	32° to 140° F	22FJ77
	2" x 2"	MNPT x F Socket	280	32° to 140° F	22FJ93
Female Adapter	½" x ½"	F Socket x FNPT	600	32° to 140° F	22FJ18
	¾" x ¾"	F Socket x FNPT	480	32° to 140° F	22FJ24
	1" x 1"	F Socket x FNPT	450	32° to 140° F	22FJ16
	1¼" x 1¼"	F Socket x FNPT	370	32° to 140° F	22FJ12
	1½" x 1½"	F Socket x FNPT	330	32° to 140° F	22FJ09
	2" x 2"	F Socket x FNPT	280	32° to 140° F	22FJ21
	2½" x 2½"	F Socket x FNPT	300	32° to 140° F	22FM26
	6" x 6"	F Socket x FNPT	180	32° to 140° F	22FM28
	8" x 8"	F Socket x FNPT	160	32° to 140° F	22FM29
Male Adapter	½" x ½"	MNPT x F Socket	600	32° to 140° F	22FJ19
	¾" x ¾"	MNPT x F Socket	480	32° to 140° F	22FJ25
	1" x 1"	MNPT x F Socket	450	32° to 140° F	22FJ17
	1¼" x 1¼"	MNPT x F Socket	330	32° to 140° F	22FJ13
	1½" x 1½"	MNPT x F Socket	330	32° to 140° F	22FJ10
	2" x 2"	MNPT x F Socket	280	32° to 140° F	22FJ22
	2½" x 2½"	MNPT x F Socket	300	32° to 140° F	22FM30
	6" x 6"	MNPT x F Socket	180	32° to 140° F	22FM31
Reducing Adapter	½" x ¾"	F Socket x FNPT	480	32° to 140° F	22FL25
	½" x ¾"	MNPT x F Socket	480	32° to 140° F	22FJ26
	¾" x ½"	FNPT x F Socket	480	32° to 140° F	22FL26
	¾" x 1"	F Socket x FNPT	450	32° to 140° F	22FL21
	1" x ¾"	FNPT x F Socket	450	32° to 140° F	22FL22
	1" x ¾"	F Socket x FNPT	450	32° to 140° F	22FL23
	1" x 1¼"	MNPT x F Socket	370	32° to 140° F	22FJ15
	1¼" x 1½"	MNPT x F Socket	370	32° to 140° F	22FJ14
	1½" x 1¼"	MNPT x F Socket	370	32° to 140° F	22FJ11
	1½" x 2"	MNPT x F Socket	330	32° to 140° F	22FJ23
	2" x 1½"	Male NPT x Female Hub	280	32° to 140° F	22FL24
	2" x 2½"	MNPT x F Socket	280	32° to 140° F	22FM33
	2" x 3"	FNPT x F Socket	260	32° to 140° F	22FM34
	3" x 4"	MNPT x F Socket	260	32° to 140° F	22FM35
Reducing Tee	¾" x ½" x ¾"	F Socket x F Socket x FNPT	480	32° to 140° F	22FK90
	1" x 1" x ¾"	F Socket x F Socket x FNPT	450	32° to 140° F	22FK84
	1¼" x ½" x 1¼"	F Socket x F Socket x FNPT	370	32° to 140° F	22FK77
	1¼" x ¾" x 1¼"	F Socket x F Socket x FNPT	370	32° to 140° F	22FK79
	1½" x ½" x 1½"	F Socket x F Socket x FNPT	330	32° to 140° F	22FK73
	1½" x ¾" x 1½"	F Socket x F Socket x FNPT	370	32° to 140° F	22FK75
	2" x ¾" x 2"	F Socket x F Socket x FNPT	280	32° to 140° F	22FK86
	2½" x ¾" x 2½"	F Socket x F Socket x FNPT	300	32° to 140° F	22FL72
	3" x 1" x 3"	F Socket x F Socket x FNPT	260	32° to 140° F	22FL76
Tee	½"	F Socket x FNPT x F Socket	600	32° to 140° F	22FL79
	½"	F Socket x F Socket x FNPT	600	32° to 140° F	22FL03
	¾"	F Socket x FNPT x F Socket	480	32° to 140° F	22FL39
	¾"	F Socket x F Socket x FNPT	480	32° to 140° F	22FL09
	1"	F Socket x F Socket x FNPT	450	32° to 140° F	22FK98
	1¼"	F Socket x F Socket x FNPT	370	32° to 140° F	22FK96
	1½"	F Socket x F Socket x FNPT	330	32° to 140° F	22FK94
	2"	F Socket x F Socket x FNPT	280	32° to 140° F	22FL66
Spigot x Threaded Schedule 40 Pipe Fittings					
90° Street Elbow	¾" x ¾"	M Spigot x FNPT	480	32° to 140° F	22FL99
Reducing Bushing	½" x ⅛"	M Spigot x FNPT	600	32° to 140° F	22FM52
	½" x ⅜"	M Spigot x FNPT	480	32° to 140° F	22FM53
	¾" x ½"	M Spigot x FNPT	480	32° to 140° F	22FK67
	1" x ½"	M Spigot x FNPT	450	32° to 140° F	22FK45
	1" x ¾"	M Spigot x FNPT	450	32° to 140° F	22FK42
	1¼" x ½"	M Spigot x FNPT	370	32° to 140° F	22FK37
	1¼" x ¾"	M Spigot x FNPT	370	32° to 140° F	22FK40
	1¼" x 1"	M Spigot x FNPT	370	32° to 140° F	22FK35
	1½" x ½"	M Spigot x FNPT	330	32° to 140° F	22FK27
	1½" x ¾"	M Spigot x FNPT	330	32° to 140° F	22FK30
	1½" x 1"	M Spigot x FNPT	330	32° to 140° F	22FK25

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
	1½" x 1¼"	M Spigot x FNPT	330	32° to 140° F	22FK32
	2" x ½"	M Spigot x FNPT	280	32° to 140° F	22FK59
	2" x ¾"	M Spigot x FNPT	280	32° to 140° F	22FK60
	2" x 1"	M Spigot x FNPT	280	32° to 140° F	22FK62
	2½" x 1"	M Spigot x FNPT	300	32° to 140° F	22FM54
	2½" x 1½"	M Spigot x FNPT	300	32° to 140° F	22FM55
	2½" x 2"	M Spigot x FNPT	300	32° to 140° F	22FK48
	3" x 1"	M Spigot x FNPT	260	32° to 140° F	22FM56
	3" x 1½"	M Spigot x FNPT	260	32° to 140° F	22FM57
	3" x 2"	M Spigot x FNPT	260	32° to 140° F	22FK69
	4" x 2"	M Spigot x FNPT	220	32° to 140° F	22FM58
	4" x 2½"	M Spigot x FNPT	220	32° to 140° F	22FK71
	4" x 3"	M Spigot x FNPT	220	32° to 140° F	22FK72
Spigot x Spigot Schedule 40 Pipe Fittings					
Hex Head Plug	1¼"	Spigot	370	0° to 140° F	22FK14
	3"	Spigot	260	0° to 140° F	22FM74
	4"	Spigot	220	0° to 140° F	22FM75
Plug	½"	Spigot	600	0° to 140° F	22FK16
	¾"	Spigot	480	0° to 140° F	22FK18
	1"	Spigot	450	0° to 140° F	22FK15
	1½"	Spigot	330	0° to 140° F	22FK13
Socket x Spigot Schedule 40 Pipe Fittings					
90° Street Elbow	½" x ½"	M Spigot x F Socket	600	32° to 140° F	22FJ90
	¾" x ¾"	M Spigot x F Socket	480	32° to 140° F	22FK02
	1" x 1"	M Spigot x F Socket	450	32° to 140° F	22FJ85
	1¼" x 1¼"	M Spigot x F Socket	370	32° to 140° F	22FJ81
	1½" x 1½"	M Spigot x F Socket	330	32° to 140° F	22FJ78
	2" x 2"	M Spigot x F Socket	280	32° to 140° F	22FJ94
	2½" x 2½"	M Spigot x F Socket	300	32° to 140° F	22FL96
	3" x 3"	M Spigot x F Socket	260	32° to 140° F	22FL97
P-Trap	½" x ½"	F Socket x M Spigot	600	32° to 140° F	22FK19
	½" x ¾"	F Socket x M Spigot	480	32° to 140° F	22FK91
Reducing Bushing	¾" x ½"	M Spigot x F Socket	480	32° to 140° F	22FK68
	1" x ½"	M Spigot x F Socket	450	32° to 140° F	22FK46
	1" x ¾"	M Spigot x F Socket	450	32° to 140° F	22FK43
	1¼" x ¾"	M Spigot x F Socket	370	32° to 140° F	22FK41
	1¼" x 1"	M Spigot x F Socket	370	32° to 140° F	22FK36
	1½" x ½"	M Spigot x F Socket	330	32° to 140° F	22FK28
	1½" x ¾"	M Spigot x F Socket	330	32° to 140° F	22FK31
	1½" x 1"	M Spigot x F Socket	330	32° to 140° F	22FK26
	1½" x 1¼"	M Spigot x F Socket	330	32° to 140° F	22FK33
	2" x ¾"	M Spigot x F Socket	280	32° to 140° F	22FK61
	2" x 1"	M Spigot x F Socket	280	32° to 140° F	22FK63
	2" x 1¼"	M Spigot x F Socket	280	32° to 140° F	22FK57
	2" x 1½"	M Spigot x F Socket	280	32° to 140° F	22FK55
	2½" x 1"	M Spigot x F Socket	300	32° to 140° F	22FM39
	2½" x 1¼"	M Spigot x F Socket	300	32° to 140° F	22FK52
	2½" x 1½"	M Spigot x F Socket	300	32° to 140° F	22FK50
	2½" x 2"	M Spigot x F Socket	300	32° to 140° F	22FK49
	3" x ¾"	M Spigot x F Socket	260	32° to 140° F	22FM40
	3" x 1"	M Spigot x F Socket	260	32° to 140° F	22FM41
	3" x 1½"	M Spigot x F Socket	260	32° to 140° F	22FM43
	3" x 2"	M Spigot x F Socket	260	32° to 140° F	22FK70
	3" x 2½"	M Spigot x F Socket	260	32° to 140° F	22FK65
	4" x 2½"	M Spigot x F Socket	220	32° to 140° F	22FM44
	5" x 4"	M Spigot x F Socket	190	32° to 140° F	22FM45
	6" x 2"	M Spigot x F Socket	180	32° to 140° F	22FM46
	6" x 3"	M Spigot x F Socket	180	32° to 140° F	22FM47
	6" x 5"	M Spigot x F Socket	180	32° to 140° F	22FM48
	8" x 4"	M Spigot x F Socket	160	32° to 140° F	22FM50
	8" x 6"	M Spigot x F Socket	160	32° to 140° F	22FM51
Socket x Socket Schedule 40 Pipe Fittings					
22-1/2° Elbow	1½" x 1½"	F Socket	330	32° to 140° F	22FM87
	2" x 2"	F Socket	280	32° to 140° F	22FM88
	3" x 3"	F Socket	260	32° to 140° F	22FM89
	4" x 4"	F Socket	220	32° to 140° F	22FM90
45° Elbow	½" x ½"	F Socket	600	32° to 140° F	22FJ66
	¾" x ¾"	F Socket	480	32° to 140° F	22FJ69
	1" x 1"	F Socket	450	32° to 140° F	22FJ65
	1¼" x 1¼"	F Socket	370	32° to 140° F	22FJ63
	1½" x 1½"	F Socket	330	32° to 140° F	22FJ62
	2" x 2"	F Socket	280	32° to 140° F	22FJ67
	2½" x 2½"	F Socket	300	32° to 140° F	22FJ64
	3" x 3"	F Socket	260	32° to 140° F	22FJ68
	4" x 4"	F Socket	220	32° to 140° F	22FJ70
	6" x 6"	F Socket	180	32° to 140° F	22FJ71
	8" x 8"	F Socket	160	32° to 140° F	22FM06
90° Elbow	⅜" x ⅜"	F Socket	480	32° to 140° F	22FL82
	½" x ½"	F Socket	600	32° to 140° F	22FJ91
	¾" x ¾"	F Socket	480	32° to 140° F	22FK03
	1" x 1"	F Socket	450	32° to 140° F	22FJ86
	1¼" x 1¼"	F Socket	370	32° to 140° F	22FJ73
	1½" x 1½"	F Socket	330	32° to 140° F	22FJ72
	2" x 2"	F Socket	280	32° to 140° F	22FJ95
	2½" x 2½"	F Socket	300	32° to 140° F	22FJ75
	3" x 3"	F Socket	260	32° to 140° F	22FJ96
	4" x 4"	F Socket	220	32° to 140° F	22FK04
	5" x 5"	F Socket	190	32° to 140° F	22FL83
	6" x 6"	F Socket	180	32° to 140° F	22FK05
	8" x 8"	F Socket	160	32° to 140° F	22FL84

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For ABS Solvent Cement, see page 2822.

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PVC Pressure Pipe Fittings, Schedule 40

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
90° Reducing Elbow					
	¾" x ½"	F Socket	480	32° to 140° F	22FL33
	2" x 1"	F Socket	280	32° to 140° F	22FL86
	2" x 1¼"	F Socket	280	32° to 140° F	22FL87
90° Side Outlet Elbow					
	1½"	F Socket x F Socket x Socket	330	32° to 140° F	22FM04
Cap					
	½"	F Socket	600	0° to 140° F	22FJ34
	¾"	F Socket	480	0° to 140° F	22FJ40
	1"	F Socket	450	0° to 140° F	22FJ32
	1¼"	F Socket	370	0° to 140° F	22FJ30
	1½"	F Socket	330	0° to 140° F	22FJ28
	2"	F Socket	280	0° to 140° F	22FJ37
	2½"	F Socket	300	0° to 140° F	22FJ35
	3"	F Socket	260	0° to 140° F	22FJ38
	4"	F Socket	220	0° to 140° F	22FJ41
	5"	F Socket	190	0° to 140° F	22FM69
	6"	F Socket	180	0° to 140° F	22FJ42
	8"	F Socket	160	0° to 140° F	22FM70
Coupling					
	½" x ½"	F Socket	600	32° to 140° F	22FJ48
	¾" x ¾"	F Socket	480	32° to 140° F	22FJ53
	1" x 1"	F Socket	450	32° to 140° F	22FJ46
	1¼" x 1¼"	F Socket	370	32° to 140° F	22FJ44
	1½" x 1½"	F Socket	330	32° to 140° F	22FJ43
	2" x 2"	F Socket	280	32° to 140° F	22FJ50
	2½" x 2½"	F Socket	300	32° to 140° F	22FJ49
	3" x 3"	F Socket	260	32° to 140° F	22FJ51
	4" x 4"	F Socket	220	32° to 140° F	22FJ54
	5" x 5"	F Socket	220	32° to 140° F	22FM15
	6" x 6"	F Socket	180	32° to 140° F	22FJ55
	8" x 8"	F Socket	160	32° to 140° F	22FM16
Deep Socket Coupling					
	1½" x 1½"	F Socket	330	32° to 140° F	22FM93
	3" x 3"	F Socket	260	32° to 140° F	22FM94
	4" x 4"	F Socket	220	32° to 140° F	22FM95
Long Socket Coupling					
	1½" x 1½"	F Socket	330	32° to 140° F	22FM12
	2" x 2"	F Socket	280	32° to 140° F	22FM13
Reducing Coupling					
	¾" x ½"	F Socket	480	32° to 140° F	22FK22
	1¼" x 1"	F Socket	370	32° to 140° F	22FM17
	1½" x 1¼"	F Socket	330	32° to 140° F	22FM18
	2" x 1½"	F Socket	280	32° to 140° F	22FM19
	3" x 2"	F Socket	260	32° to 140° F	22FK21
	4" x 3"	F Socket	220	32° to 140° F	22FM20
	6" x 4"	F Socket	180	32° to 140° F	22FM21
	8" x 6"	F Socket	160	32° to 140° F	22FM22

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Oper. Press. (psi)	Temp. Range	Item No.
Reducing Tee					
	¾" x ½" x ¾"	F Socket	480	32° to 140° F	22FK89
	1" x ¾" x 1"	F Socket	450	32° to 140° F	22FK81
	1" x 1" x ½"	F Socket x F Socket x FNPT	450	32° to 140° F	22FK83
	1" x 1" x 1"	F Socket	450	32° to 140° F	22FK80
	1½" x ¾" x 1½"	F Socket	330	32° to 140° F	22FK74
	1½" x 1" x 1½"	F Socket	330	32° to 140° F	22FK82
	1½" x 2" x 1½"	F Socket	330	32° to 140° F	22FL48
	2" x 1½" x 2"	F Socket	280	32° to 140° F	22FK85
	2" x 2" x 2"	F Socket	280	32° to 140° F	22FL05
	2½" x 1" x 2½"	F Socket	300	32° to 140° F	22FL51
	2½" x 2½" x 4"	F Socket	300	32° to 140° F	22FL04
	3" x ¾" x 3"	F Socket	260	32° to 140° F	22FL54
	3" x 1" x 3"	F Socket	260	32° to 140° F	22FL55
	3" x 1½" x 3"	F Socket	260	32° to 140° F	22FL57
	3" x 2" x 3"	F Socket	260	32° to 140° F	22FL58
	4" x 1" x 4"	F Socket	220	32° to 140° F	22FL60
	4" x 2" x 4"	F Socket	220	32° to 140° F	22FL61
	4" x 3" x 4"	F Socket	220	32° to 140° F	22FL62
	6" x 2" x 6"	F Socket	180	32° to 140° F	22FL63
	6" x 3" x 6"	F Socket	180	32° to 140° F	22FL64
	6" x 4" x 6"	F Socket	180	32° to 140° F	22FL65
Repair Coupling					
	1" x 1"	F Socket	150	32° to 113° F	1WJX8
	1¼" x 1¼"	F Socket	150	32° to 113° F	1WJY1
	1½" x 1½"	F Socket	150	32° to 113° F	1WJY3
	2" x 2"	F Socket	150	32° to 113° F	1WJY5
	2½" x 2½"	F Socket	150	32° to 113° F	1WJY7
	3" x 3"	F Socket	150	32° to 113° F	1WJY9
	4" x 4"	F Socket	150	32° to 113° F	1WJZ2
Standard Cross					
	½"	F Socket	600	32° to 140° F	22FJ59
	¾"	F Socket	480	32° to 140° F	22FJ61
	1"	F Socket	450	32° to 140° F	22FJ58
	1¼"	F Socket	370	32° to 140° F	22FJ57
	1½"	F Socket	330	32° to 140° F	22FJ56
	2"	F Socket	280	32° to 140° F	22FJ60
	3"	F Socket	260	32° to 140° F	22FM08
	4"	F Socket	220	32° to 140° F	22FM09
Tee					
	⅜"	F Socket	480	32° to 140° F	22FL40
	½"	F Socket	600	32° to 140° F	22FL02
	¾"	F Socket	480	32° to 140° F	22FL08
	1"	F Socket	450	32° to 140° F	22FK99
	1¼"	F Socket	370	32° to 140° F	22FK95
	1½"	F Socket	330	32° to 140° F	22FK93
	3"	F Socket	260	32° to 140° F	22FL06
	4"	F Socket	220	32° to 140° F	22FL10
	5"	F Socket	190	32° to 140° F	22FL11
	6"	F Socket	180	32° to 140° F	22FL12
	8"	F Socket	160	32° to 140° F	22FL41
Union					
	½" x ½"	F Socket	600	32° to 140° F	22FL14
	¾" x ¾"	F Socket	480	32° to 140° F	22FL19
	1" x 1"	F Socket	450	32° to 140° F	22FL13
	1¼" x 1¼"	F Socket	370	32° to 140° F	22FL16
	1½" x 1½"	F Socket	330	32° to 140° F	22FL15
	2" x 2"	F Socket	280	32° to 140° F	22FL17
	3" x 3"	F Socket	260	32° to 140° F	22FL18
	4" x 4"	F Socket	220	32° to 140° F	22FL20
Wye					
	4" x 4" x 4"	F Socket	220	32° to 140° F	22FM92

Schedule 40 Clear Pipe & Fittings

- Temp. range: 73° to 180°F, except caps are 0° to 140°F

Clear PVC pipe is used for quick identification and visual leak detection in medical/hospital use, chemical processing, and beverage processing. Compatible with PVC cleaners, primers, and cements. Schedule 40 pipe has thicker walls than Schedule 10, but not as thick as Schedule 80 pipe.

Description	Nominal Pipe Size	8 ft Item No.
Schedule 40 Clear Unthreaded Low Pressure Pipe		
	½"	1AAZ4
	¾"	1AAZ5
	1"	1AAZ6
	1¼"	5REW3
	1½"	1AAZ7
	2"	1AAZ8
	2½"	5REW4
	3"	1AAZ9
	4"	1ABA1

	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Socket x Threaded Schedule 40 Pipe Fittings				
Female Adapter				
	½"	FNPT x F Socket	360 psi @ 73° F	2CFA3
	¾"	FNPT x F Socket	280 psi @ 73° F	2CFA4
	1"	FNPT x F Socket	270 psi @ 73° F	2CFA5
	1½"	FNPT x F Socket	200 psi @ 73° F	2CFA7
	2"	FNPT x F Socket	170 psi @ 73° F	2CFA8
	4"	FNPT x F Socket	130 psi @ 73° F	2CFC2
Male Adapter				
	½"	MNPT x M Socket	360 psi @ 73° F	2CFC3
	¾"	MNPT x M Socket	280 psi @ 73° F	2CFC4
	1"	MNPT x M Socket	270 psi @ 73° F	2CFC5
	1½"	MNPT x M Socket	200 psi @ 73° F	2CFC7
	2"	MNPT x M Socket	170 psi @ 73° F	2CFC8
	2½"	MNPT x M Socket	180 psi @ 73° F	2CFC9
Socket x Socket Schedule 40 Pipe Fittings				
45° Elbow				
	½"	F Socket	360 psi @ 73° F	2CEY3
	¾"	F Socket	280 psi @ 73° F	2CEY4
	1"	F Socket	270 psi @ 73° F	2CEY5
	2"	F Socket	170 psi @ 73° F	2CEY8
	2½"	F Socket	180 psi @ 73° F	2CEY9
	3"	F Socket	155 psi @ 73° F	2CEZ1
	4"	F Socket	130 psi @ 73° F	2CEZ2
90° Elbow				
	½"	F Socket	360 psi @ 73° F	2CEX3
	¾"	F Socket	280 psi @ 73° F	2CEX4
	1"	F Socket	270 psi @ 73° F	2CEX5
	1¼"	F Socket	220 psi @ 73° F	2CEX6
	1½"	F Socket	200 psi @ 73° F	2CEX7
	2"	F Socket	170 psi @ 73° F	2CEX8
	2½"	F Socket	180 psi @ 73° F	2CEX9
	4"	F Socket	130 psi @ 73° F	2CEY2

	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Cap				
		Socket	180 psi @ 73 °F	2CFD3
	½ in	Socket	180 psi @ 73 °F	2CFD3
	¾ in	Socket	144 psi @ 73 °F	2CFD4
	1 in	Socket	132 psi @ 73 °F	2CFD5
	1 ½ in	Socket	102 psi @ 73 °F	2CFD7
	2 in	Socket	84 psi @ 73 °F	2CFD8
	2 ½ in	Socket	90 psi @ 73 °F	2CFD9
	3 in	Socket	78 psi @ 73 °F	2CFE1
Coupling				
	½"	F Socket	360 psi @ 73° F	2CEZ3
	¾"	F Socket	280 psi @ 73° F	2CEZ4
	1"	F Socket	270 psi @ 73° F	2CEZ5
	1¼"	F Socket	220 psi @ 73° F	2CEZ6
	1½"	F Socket	200 psi @ 73° F	2CEZ7
	2"	F Socket	170 psi @ 73° F	2CEZ8
	3"	F Socket	155 psi @ 73° F	2CFA1
	4"	F Socket	130 psi @ 73° F	2CFA2
Tee				
	½"	F Socket	360 psi @ 73° F	2CEW3
	¾"	F Socket	280 psi @ 73° F	2CEW4
	1"	F Socket	270 psi @ 73° F	2CEW5
	1¼"	F Socket	220 psi @ 73° F	2CEW6
	1½"	F Socket	200 psi @ 73° F	2CEW7
	2"	F Socket	170 psi @ 73° F	2CEW8
	2½"	F Socket	180 psi @ 73° F	2CEW9
	4"	F Socket	130 psi @ 73° F	2CEX2

PVC Drain, Waste & Vent Pipe Fittings, Schedule DWV & 40

- White color
- Tees read: run x run x outlet

Convey effluent streams with gravity, such as black water or gray water waste. Lightweight PVC is nonflammable with good electrical insulation, and its smooth interior walls resist scaling. Not for use in pressure applications.

Socket x socket—Also called slip or hub fittings, the socket ends fit over the end of a PVC pipe and require glue or adhesive to secure the connection.

Socket x spigot—Include socket (hub or slip) end that fits over a pipe and a spigot (also known as street) end that fits inside a socket. Use glue or adhesive to secure the connection.

Spigot x threaded—A spigot end connects to another fitting and requires solvent cement to seal connection. Threaded connections use PTFE tape to secure seal.

Threaded x threaded—Threaded on all connection ends. Use PTFE tape to secure seal.

Spigot x threaded—Spigot end connects to another fitting, and requires solvent cement to seal connection. Threaded ends use PTFE tape to secure seal.

Spigot x spigot—Fit inside sockets on other fttings. Spigots require solvent cement to seal connections.

Socket x socket—Socket ends fit over the ends of pipe and require glue or adhesive to secure the connection.

Socket x threaded—Socket ends require glue or adhesive to secure connection. Threaded ends use PTFE tape to secure seal.

SCHEDULE DWV: Thinner walls are not intended for pressure applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range (°F)	Item No.
Socket x Socket Schedule DWV Pipe Fittings				
22-1/2° Elbow	6" x 6"	F Socket	73 to 180	56GX24
45° Elbow	3" x 3"	F Socket	73 to 180	56GX20
	4" x 4"	F Socket	73 to 180	56GX21
	6" x 6"	F Socket	73 to 180	56GX22
90° Long Sweep Elbow	4" x 4"	F Socket	73 to 180	56GX44
90° Sanitary Elbow	3" x 3"	F Socket	73 to 180	56GX41
	4" x 4"	F Socket	73 to 180	56GX42
	6" x 6"	F Socket	73 to 180	56GX43
90° Short Turn Elbow	4" x 4"	F Socket	73 to 180	56GX23
Adapter	4" x 4"	F Socket	73 to 180	56GX35
Bull Nose Tee	4" x 4" x 4"	F Socket	73 to 180	56GX30
	6" x 6" x 6"	F Socket	73 to 180	56GX31
Coupling	3" x 3"	F Socket	73 to 180	56GX09
	4" x 4"	F Socket	73 to 180	56GX10
	6" x 6"	F Socket	73 to 180	56GX15
Sanitary Tee	3" x 3" x 3"	F Socket	73 to 180	56GX27
	4" x 4" x 4"	F Socket	73 to 180	56GX28
	6" x 6" x 6"	F Socket	73 to 180	56GX29
Two-Way Cleanout Tee	4" x 4" x 4"	F Socket	73 to 180	56GX33
Wye	4" x 4" x 4"	F Socket	73 to 180	56GX25
	6" x 6" x 6"	F Socket	73 to 180	56GX26
Socket x Spigot Schedule DWV Pipe Fittings				
45° Street Elbow	3" x 3"	F Socket x M Spigot	73 to 180	56GX38
	4" x 4"	F Socket x M Spigot	73 to 180	56GX39
	6" x 6"	F Socket x M Spigot	73 to 180	56GX40
90° Short Turn Elbow	4" x 4"	F Socket	73 to 180	56GX45
Adapter	4" x ¼"	F Socket x M Spigot	73 to 180	56GX47
Adapter Bushing	4" x 2"	F Socket x F Spigot	73 to 180	56GX49
	4" x 4"	M Spigot x F Socket	73 to 180	56GX19
Reducing Bushing	3" x 3"	F Socket	73 to 180	56GX16
Spigot x Threaded Schedule DWV Pipe Fittings				
Cleanout Adapter	3" x 3"	M Spigot x FNPT	73 to 180	56GX32
	6" x 6"	M Spigot x FNPT	73 to 180	56GX34

SCHEDULE 40 DWV: Fittings have thinner walls than Schedule 80, and are used in lower pressure flow applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range (°F)	Item No.
Threaded x Threaded Schedule 40 DWV Pipe Fittings				
Cleanout Plug	1½"	MNPT	0 to 140	1WKH6
	2"	MNPT	0 to 140	1WKH7
	3"	MNPT	0 to 140	1WKH8
	4"	MNPT	0 to 140	1WKH9
	6"	MNPT	0 to 140	1WKW5
Flush Cleanout Plug	4"	MNPT	0 to 140	1WKT1
Slip Joint Nut	1½"	NPSM	-20 to 140	1WJP2
Spigot x Threaded Schedule 40 DWV Pipe Fittings				
Cleanout Adapter	1½" x 1½"	M Spigot x FNPT	-20 to 140	1WKF9
	2" x 2"	M Spigot x FNPT	-20 to 140	1WKG1
	3" x 3"	M Spigot x FNPT	-20 to 140	1WKG2
	4" x 4"	M Spigot x FNPT	-20 to 140	1WKG3
	6" x 6"	F NPT x F NPT	-20 to 140	3JWE8
Cleanout Adapter with Plug	1½" x 1½"	M Spigot x FNPT	-20 to 140	1WKR6
	2" x 2"	M Spigot x FNPT	-20 to 140	1WKR7
	3" x 3"	M Spigot x FNPT	-20 to 140	1WKR8
	4" x 4"	M Spigot x FNPT	-20 to 140	1WKR9
	6" x 6"	M Spigot x FNPT	-20 to 140	1WKV6
Male Adapter	1½" x 1½"	M Spigot x MNPT	-20 to 140	1WKU5
	2" x 2"	M Spigot x MNPT	-20 to 140	1WKU4
	3" x 3"	M Spigot x MNPT	-20 to 140	3JWF4
Spigot x Spigot Schedule 40 DWV Pipe Fittings				
Cleanout Plug	4"	Spigot	0 to 140	56GX36
	6"	MNPT	0 to 140	56GX37
	3"	Spigot	0 to 140	56GX50
Socket x Spigot Schedule 40 DWV Pipe Fittings				
22-1/2° Elbow	4" x 4"	M Spigot x F Socket	-20 to 140	1WKL3
22-1/2° Street Elbow	1½" x 1½"	M Spigot x F Socket	-20 to 140	1CNX4
	2" x 2"	M Spigot x F Socket	-20 to 140	1CNX5
	3" x 3"	M Spigot x F Socket	-20 to 140	1CNX6
45° Street Elbow	1½" x 1½"	M Spigot x F Socket	-20 to 140	1WKC9
90° Street Elbow	1½" x 1½"	M Spigot x F Socket	-20 to 140	1WKA8
	2" x 2"	M Spigot x F Socket	-20 to 140	1WKB1
	3" x 3"	M Spigot x F Socket	-20 to 140	1WKB3
	4" x 4"	M Spigot x F Socket	-20 to 140	1WKB6
	6" x 6"	M Spigot x F Socket	-20 to 140	1WKV4
Adapter	2" x 2"	M Spigot x F Socket	-20 to 140	1WKJ6
Flush Bushing	1½" x 1¼"	M Spigot x F Socket	-20 to 140	3JWF6
	2" x 1½"	M Spigot x F Socket	-20 to 140	1WKF2
	3" x 1½"	M Spigot x F Socket	-20 to 140	1WKF4
	3" x 2"	M Spigot x F Socket	-20 to 140	1WKF5
	4" x 2"	M Spigot x F Socket	-20 to 140	1WKF7
	4" x 3"	M Spigot x F Socket	-20 to 140	1WKF6
	6" x 4"	M Spigot x F Socket	-20 to 140	1WKW4
Reducing Adapter	2" x 1½"	F Socket x M Spigot	-20 to 140	1WKK1
	4" x 3"	F Socket x M Spigot	-20 to 140	1WKJ9
Reducing Bushing	4" x 1½"	F Socket x M Spigot	73 to 180	56GX48
Trap Adapter	1½" x 1½"	M Spigot x M Socket	-20 to 140	1CNY1
	1½" x 1½"	M Spigot x F Socket	-20 to 140	1WKU9
	2" x 2"	M Spigot x F Socket	-20 to 140	3JWF1
Socket x Threaded Schedule 40 DWV Pipe Fittings				
Female Adapter	1½" x 1½"	FNPT x F Socket	-20 to 140	1WJY2
	2" x 2"	FNPT x F Socket	-20 to 140	1WJY4
	3" x 3"	FNPT x F Socket	-20 to 140	1WJY6
	4" x 4"	FNPT x F Socket	-20 to 140	5REC0
	4" x 4"	F Socket x F NPT	73 to 180	56GX17
	6" x 6"	FNPT x F Socket	-20 to 140	1WKW6
	6" x 6"	F Socket x F NPT	73 to 180	56GX18
Male Adapter	1¼" x 1¼"	MNPT x F Socket	-20 to 140	1WKG9
	1½" x 1¼"	MNPT x F Socket	-20 to 140	1WKG4
	1½" x 1½"	MNPT x F Socket	-20 to 140	1WKG5
	2" x 2"	MNPT x F Socket	-20 to 140	1WKG6
	3" x 3"	MNPT x F Socket	-20 to 140	1WKG7
	4" x 4"	MNPT x F Socket	-20 to 140	1WKG8

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PVC Drain, Waste & Vent Pipe Fittings, Schedule DWV & 40

SCHEDULE 40 DWV: Fittings have thinner walls than Schedule 80, and are used in lower pressure flow applications.

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range (°F)	Item No.
Socket x Socket Schedule 40 DWV Fittings				
22-1/2° Elbow				
	1½" x 1½"	F Socket	-20 to 140	**1WKE5**
	2" x 2"	F Socket	-20 to 140	**1WKE7**
	3" x 3"	F Socket	-20 to 140	**1WKE9**
	4" x 4"	F Socket	-20 to 140	**1WKL2**
	6" x 6"	F Socket	-20 to 140	**3GUV3**
45° Elbow				
	1¼" x 1¼"	F Socket	-20 to 140	**1WKB8**
	1½" x 1½"	F Socket	-20 to 140	**1WKC1**
	2" x 2"	F Socket	-20 to 140	**1WKC3**
	3" x 3"	F Socket	-20 to 140	**1WKC5**
	4" x 4"	F Socket	-20 to 140	**1WKC7**
	6" x 6"	F Socket	-20 to 140	**1WKV9**
60° Elbow				
	1½" x 1½"	F Socket	-20 to 140	**1WKD8**
	2" x 2"	F Socket	-20 to 140	**1WKE1**
	3" x 3"	F Socket	-20 to 140	**1WKE3**
	4" x 4"	F Socket	-20 to 140	**1WKL1**
90° Closet Elbow				
	4" x 3"	F Socket	-20 to 140	**1WKT9**
90° Elbow				
	1¼" x 1¼"	F Socket	-20 to 140	**1WJZ7**
	1½" x 1½"	F Socket	-20 to 140	**1WJZ9**
	2" x 2"	F Socket	-20 to 140	**1WKA2**
	3" x 3"	F Socket	-20 to 140	**1WKA4**
	4" x 4"	F Socket	-20 to 140	**1WKA6**
	6" x 6"	F Socket	-20 to 140	**1WKV8**
	8" x 8"	F Socket	-20 to 140	**3GUV1**
90° Elbow with Low Heel Inlet				
	3" x 3" x 2"	F Socket x F Socket x Socket	-20 to 140	**1CNX8**
	4" x 4" x 2"	F Socket x F Socket x Socket	-20 to 140	**3GUU7**
90° Long Sweep Elbow				
	1½" x 1½"	F Socket	-20 to 140	**1WJY8**
	2" x 2"	F Socket	-20 to 140	**1WJZ1**
	3" x 3"	F Socket	-20 to 140	**1WJZ3**
	4" x 4"	F Socket	-20 to 140	**1WJZ5**
90° Long Sweep Street Elbow				
	1½" x 1½"	F Socket x M Spigot	-20 to 140	**5REA8**
	2" x 2"	F Socket x M Spigot	-20 to 140	**3GUT5**
	3" x 3"	F Socket x M Spigot	-20 to 140	**3GUU1**
	4" x 4"	F Socket x M Spigot	-20 to 140	**3JWE7**
90° Vent Elbow				
	1½" x 1½"	F Socket	-20 to 140	**1WKT4**
	2" x 2"	F Socket	-20 to 140	**1WKT5**
	3" x 3"	F Socket	-20 to 140	**1WKT6**
90° Vent Street Elbow				
	1½" x 1½"	F Socket x M Spigot	-20 to 140	**1WKT7**
	2" x 2"	F Socket x M Spigot	-20 to 140	**1WKT8**
Adapter				
	4" x 4"	F Socket	-20 to 140	**1WKK3**
Cap				
	3"	F Socket	0 to 140	**56GX12**
	4"	F Socket	0 to 140	**56GX13**
	6"	F Socket	0 to 140	**56GX14**
Cleanout Tee				
	1½" x 1½" x 1½"	F Socket x F Socket x FNPT	-20 to 140	**5REC3**
	2" x 2" x 2"	F Socket x F Socket x FNPT	-20 to 140	**1CNY2**
	4" x 4" x 4"	F Socket x F Socket x FNPT	-20 to 140	**3GUT6**
Cleanout Tee with Cleanout Plug				
	4"	Socket	0 to 140	**1WKL8**
Cleanout Tee with Plug				
	1½" x 1½" x 1½"	F Socket x F Socket x FNPT	-20 to 140	**3JWE9**
	2" x 2" x 2"	F Socket x F Socket x FNPT	-20 to 140	**1CNX7**
	3" x 3" x 3"	F Socket x F Socket x FNPT	-20 to 140	**1WKL7**
Combination Wye & 45° Elbow				
	1½" x 1½" x 1½"	F Socket	-20 to 140	**1WJX1**
	2" x 2" x 2"	F Socket	-20 to 140	**1WJX5**
	3" x 3" x 3"	F Socket	-20 to 140	**1WJW8**
	4" x 4" x 4"	F Socket	-20 to 140	**1WJX7**

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range (°F)	Item No.
Combination Wye & 45° Reducing Elbow				
	2" x 2" x 1½"	F Socket	-20 to 140	**1WJX9**
	3" x 3" x 1½"	F Socket	-20 to 140	**3JWF9**
	3" x 3" x 2"	F Socket	-20 to 140	**1WJX3**
	4" x 4" x 2"	F Socket	-20 to 140	**1CNX2**
Coupling				
	1¼" x 1¼"	F Socket	-20 to 140	**1WKH1**
	1½" x 1½"	F Socket	-20 to 140	**1WKH2**
	2" x 2"	F Socket	-20 to 140	**1WKH3**
	3" x 3"	F Socket	-20 to 140	**1WKH4**
	4" x 4"	F Socket	-20 to 140	**1WKH5**
	6" x 6"	F Socket	-20 to 140	**1WKW3**
	8" x 8"	F Socket	-20 to 140	**3GUV2**
Double Sanitary Reducing Tee				
	2" x 2" x 1½" x 1½"	F Socket	-20 to 140	**1CNX1**
	3" x 3" x 1½" x 1½"	F Socket	-20 to 140	**1WJT6**
	4" x 4" x 2" x 2"	F Socket	-20 to 140	**1WJN9**
Double Sanitary Tee				
	1½" x 1½" x 1½" x 1½"	F Socket	-20 to 140	**1WJR7**
	2" x 2" x 2" x 2"	F Socket	-20 to 140	**1WJR9**
	3" x 3" x 3" x 3"	F Socket	-20 to 140	**1WJT2**
	4" x 4" x 4" x 4"	F Socket	-20 to 140	**1WJT4**
Double Wye				
	1½" x 1½" x 1½" x 1½"	F Socket	-20 to 140	**1WJW1**
	2" x 2" x 2" x 2"	F Socket	-20 to 140	**1WJW3**
	3" x 3" x 3" x 3"	F Socket	-20 to 140	**1WJW5**
	4" x 4" x 4" x 4"	F Socket	-20 to 140	**3GUU8**
	6" x 6" x 6" x 6"	F Socket	-20 to 140	**3JWG5**
P-Trap				
	1¼" x 1½"	F Socket	-20 to 140	**3GUT7**
P-Trap with Cleanout				
	1½" x 1½"	F Socket	-20 to 140	**3GUT2**
	2" x 2"	F Socket	-20 to 140	**3JWF2**
P-Trap with Solvent Weld Joint				
	1½" x 1½"	F Socket	-20 to 140	**1CNW2**
	2" x 2"	F Socket	-20 to 140	**1CNW4**
	3" x 3"	F Socket	-20 to 140	**1CNW6**
	4" x 4"	F Socket	-20 to 140	**3GUT9**
P-Trap with Union				
	1½" x 1½"	F Socket	-20 to 140	**1CNW3**
	2" x 2"	F Socket	-20 to 140	**3GUR9**
Reducing Coupling				
	2" x 1½"	F Socket	-20 to 140	**1WKJ1**
	3" x 1½"	F Socket	-20 to 140	**1WKJ2**
	3" x 2"	F Socket	-20 to 140	**1WKJ3**
	4" x 2"	F Socket	-20 to 140	**1WKJ4**
	4" x 3"	F Socket	-20 to 140	**1WKJ5**
	6" x 4"	F Socket	-20 to 140	**1WKV5**
Reducing Double Wye				
	3" x 3" x 1½" x 1½"	F Socket	-20 to 140	**5REC5**
	3" x 3" x 2" x 2"	F Socket	-20 to 140	**5REC6**
	4" x 4" x 2" x 2"	F Socket	-20 to 140	**5REC7**
Reducing Wye				
	2" x 2" x 1½"	F Socket	-20 to 140	**1WJU7**
	3" x 3" x 1½"	F Socket	-20 to 140	**1WJU9**
	3" x 3" x 2"	F Socket	-20 to 140	**1WJV2**
	4" x 4" x 1½"	F Socket	-20 to 140	**1WJV8**
	4" x 4" x 2"	F Socket	-20 to 140	**1WJV4**
	4" x 4" x 3"	F Socket	-20 to 140	**1WJV6**
	4" x 6" x 6"	F Socket	-20 to 140	**3GUT8**

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range (°F)	Item No.
Repair Coupling				
	1½" x 1½"	F Socket	-20 to 140	**1WKK4**
	2" x 2"	F Socket	-20 to 140	**1WKK5**
	3" x 3"	F Socket	-20 to 140	**3GUR8**
	4" x 4"	F Socket	-20 to 140	**3GUT3**
Sanitary Reducing Tee				
	2" x 2" x 1½"	F Socket	-20 to 140	**1WJP7**
	3" x 3" x 1½"	F Socket	-20 to 140	**1WJP9**
	3" x 3" x 2"	F Socket	-20 to 140	**1WJP8**
	4" x 4" x 1½"	F Socket	-20 to 140	**1WJR3**
	4" x 4" x 2"	F Socket	-20 to 140	**1WJR1**
	4" x 4" x 3"	F Socket	-20 to 140	**1WJR2**
	6" x 6" x 4"	F Socket	-20 to 140	**1WKV3**
Sanitary Street Tee				
	1½" x 1½" x 1½"	F Socket x F Socket x M Spigot	-20 to 140	**5REC1**
	2" x 2" x 2"	F Socket x F Socket x M Spigot	-20 to 140	**5REC2**
	3" x 3" x 3"	F Socket x F Socket x M Spigot	-20 to 140	**3GUU3**
Sanitary Tee				
	1½" x 1½" x 1½"	F Socket	-20 to 140	**1WJP3**
	2" x 2" x 2"	F Socket	-20 to 140	**1WJP4**
	3" x 3" x 3"	F Socket	-20 to 140	**1WJP5**
	4" x 4" x 4"	F Socket	-20 to 140	**1WJP6**
Sanitary Tee with Left Side Inlet				
	4" x 4" x 4" x 2"	F Socket	-20 to 140	**3JWF5**
Socket Cap				
	1½"	Socket	0 to 140	**1WKK6**
	2"	Socket	0 to 140	**1WKK7**
	3"	Socket	0 to 140	**1WKK8**
	4"	Socket	0 to 140	**1WKK9**
	6"	Socket	0 to 140	**1WKV7**
Standard Cross				
	4" x 4" x 4" x 4"	F Socket x F Socket x Socket x Socket	73 to 180	**56GX46**
Trap Adapter				
	1½" x 1¼"	F Socket	-20 to 140	**1WKU3**
	2" x 2"	F Socket	-20 to 140	**3JWF3**
Trap Adapter with Nut				
	1½" x 1½"	F Socket	-20 to 140	**1CNX9**
Trap Adapter with Nut & Washer				
	1½" x 1½"	F Socket	-20 to 140	**1WKU2**
Two-Way Cleanout Tee				
	3" x 3" x 3"	F Socket	-20 to 140	**1WJN7**
	4" x 4" x 4"	F Socket	-20 to 140	**1WJN8**
Vent Tee				
	1½" x 1½" x 1½"	F Socket	-20 to 140	**1WKU8**
Wye				
	1½" x 1½" x 1½"	F Socket	-20 to 140	**1WJT8**
	2" x 2" x 2"	F Socket	-20 to 140	**1WJU1**
	3" x 3" x 3"	F Socket	-20 to 140	**1WJU3**
	4" x 4" x 4"	F Socket	-20 to 140	**1WJU5**
	6" x 6" x 6"	F Socket	-20 to 140	**1WKW2**

PVC Pressure Pipe Fittings & Flanges, Schedule 80

- Gray color, except compression couplings are white
- Tees read: run x run x outlet

Schedule 80 fittings have thicker walls than Schedule 40, but not as thick as Schedule 100 and are suitable for use in water processing and in water treatment. PVC is a strong thermoplastic that resists ultraviolet (UV), acids, alkalis, oils, and many corrosive inorganic chemicals, making it resistant to the corrosive effects of sewage. Lightweight PVC is nonflammable with good electrical insulation properties, and its smooth interior walls resist scaling. Threaded connections use PTFE tape to secure seal.

Threaded x threaded—Threaded on all connection ends.

Socket x threaded—Include one socket (hub or slip) end and one threaded end. Socket ends require glue or adhesive to secure connection.

Spigot x threaded—Include one spigot (or street) end and a threaded end. The spigot end connects to another fitting and requires glue or adhesive for a secure seal.

Socket x spigot—These fittings include a socket (hub or slip) end that fits over a pipe and a spigot (also known as street end) that fits inside a socket. The spigot end is needed when a fitting connects to another fitting. Fittings require glue or adhesive to secure the connection.

Socket x socket—Also called slip or hub fittings, the socket ends fit over the end of a PVC pipe and require glue or adhesive to secure the connection.

Compression x compression—Temporarily repair new or existing pipelines and include metal friction rings, iron nuts, and rubber gaskets. They do not require soldering or gluing, but are not as resistant to vibration as soldered or welded fittings.

Threaded x threaded flanges—Threaded on all connection ends.

Blind flanges—They seal the end of piping systems or pressure vessel openings. These flanges help test the flow of gas or liquid through a pipe. Blind flanges typically have a raised, flat, or RTJ (ring-type joint) face.

Socket x socket flanges—Also called slip or hub fittings, the socket ends fit over the end of a PVC pipe and require glue or adhesive to secure the connection.

Spigot x spigot flanges—Include spigots, also called street ends, on both ends to fit inside sockets on other fittings. Require glue or adhesive to secure the connection.

Description	Pipe Size (Nominal)	PIPE 10 ft Length Item No.
Pipe		
	½ in	**6MV20**
	¾ in	**6MV21**
	1 in	**6MV22**
	1 ¼ in	**6MV23**
	1 ½ in	**6MV24**
	2 in	**6MV25**
	2 ½ in	**1VFA3**
	3 in	**1VEV4**
	4 in	**1VFA5**
	6 in	**22FR52**
	8 in	**22FR53**

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Threaded x Threaded Schedule 80 Pipe Fittings					
45° Elbow					
	½ in x ½ in	FNPT	425 psi @ 73° F	32 to 140	**6NG42**
	¾ in x ¾ in	FNPT	345 psi @ 73° F	32 to 140	**6NG43**
	1 in x 1 in	FNPT	315 psi @ 73° F	32 to 140	**6NG44**
	1 ½ in x 1 ½ in	FNPT	235 psi @ 73° F	32 to 140	**6NG46**
	2 in x 2 in	FNPT	200 psi @ 73° F	32 to 140	**6NG47**
	3 in x 3 in	FNPT	185 psi @ 73° F	32 to 140	**1VFG1**
	4 in x 4 in	FNPT	160 psi @ 73° F	32 to 140	**1VFG3**
90° Elbow					
	¼ in x ¼ in	FNPT	565 psi @ 73° F	32 to 140	**22JY42**
	½ in x ½ in	FNPT	425 psi @ 73° F	32 to 140	**6NG18**
	¾ in x ¾ in	FNPT	345 psi @ 73° F	32 to 140	**6NG19**
	1 in x 1 in	FNPT	315 psi @ 73° F	32 to 140	**6NG20**
	1 ¼ in x 1 ¼ in	FNPT	260 psi @ 73° F	32 to 140	**6NG21**
	1 ½ in x 1 ½ in	FNPT	235 psi @ 73° F	32 to 140	**6NG22**
	2 in x 2 in	FNPT	200 psi @ 73° F	32 to 140	**6NG23**
	2 ½ in x 2 ½ in	FNPT	210 psi @ 73° F	32 to 140	**1VFE7**
	3 in x 3 in	FNPT	185 psi @ 73° F	32 to 140	**1VFE9**
	4 in x 4 in	FNPT	160 psi @ 73° F	32 to 140	**1VFF2**
Cap					
	½ in	FNPT	—	0 to 140	**6ND24**
	¾ in	FNPT	—	0 to 140	**6ND25**
	1 in	FNPT	—	0 to 140	**6ND26**
	1 ¼ in	FNPT	—	0 to 140	**6ND27**
	1 ½ in	FNPT	—	0 to 140	**6ND28**
	2 in	FNPT	—	0 to 140	**6ND29**
Coupling					
	⅜ in x ⅜ in	FNPT	460 psi @ 73° F	32 to 140	**22JY61**
	½ in x ½ in	FNPT	425 psi @ 73° F	32 to 140	**6NG65**
	¾ in x ¾ in	FNPT	345 psi @ 73° F	32 to 140	**6NG66**
	1 in x 1 in	FNPT	315 psi @ 73° F	32 to 140	**6NG67**
	1 ¼ in x 1 ¼ in	FNPT	260 psi @ 73° F	32 to 140	**6NG68**
	1 ½ in x 1 ½ in	FNPT	235 psi @ 73° F	32 to 140	**6NG69**
	2 in x 2 in	FNPT	200 psi @ 73° F	32 to 140	**6NG70**
	3 in x 3 in	FNPT	185 psi @ 73° F	32 to 140	**1VFJ1**
	4 in x 4 in	FNPT	160 psi @ 73° F	32 to 140	**1VFJ3**
Hex Head Plug					
	¼ in	MNPT	565 psi @ 73 °F	0 to 140	**1KA63**
	⅜ in	MNPT	460 psi @ 73 °F	0 to 140	**2NU95**
	½ in	MNPT	425 psi @ 73 °F	0 to 140	**2NU96**
	¾ in	MNPT	345 psi @ 73 °F	0 to 140	**2NU97**
	1 in	MNPT	315 psi @ 73 °F	0 to 140	**2NU98**
	1 ½ in	MNPT	235 psi @ 73 °F	0 to 140	**2NU99**
	1 ¼ in	MNPT	260 psi @ 73 °F	0 to 140	**3TNV3**
	2 in	MNPT	200 psi @ 73 °F	0 to 140	**2NV10**
	3 in	MNPT	185 psi @ 73 °F	0 to 140	**1VFP5**
	4 in	MNPT	160 psi @ 73 °F	0 to 140	**1VFP7**
Reducing Bushing					
	½ in x ¼ in	MNPT x FNPT	425 psi @ 73° F	32 to 140	**2PMJ4**
	½ in x ⅜ in	MNPT x FNPT	425 psi @ 73° F	32 to 140	**3TNU3**
	¾ in x ¼ in	MNPT x FNPT	345 psi @ 73° F	32 to 140	**6MV65**
	¾ in x ½ in	MNPT x FNPT	345 psi @ 73° F	32 to 140	**2PMJ5**
	1 in x ¼ in	MNPT x FNPT	315 psi @ 73° F	32 to 140	**6MV66**
	1 in x ½ in	MNPT x FNPT	315 psi @ 73° F	32 to 140	**2PMJ6**
	1 in x ¾ in	MNPT x FNPT	315 psi @ 73° F	32 to 140	**2PMJ7**
	1 ¼ in x ½ in	MNPT x FNPT	260 psi @ 73° F	32 to 140	**6MV67**
	1 ¼ in x ¾ in	MNPT x FNPT	260 psi @ 73° F	32 to 140	**6MV68**

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
	1 ¼ in x 1 in	MNPT x FNPT	260 psi @ 73° F	32 to 140	**2PMJ8**
	1 ½ in x ¾ in	MNPT x FNPT	235 psi @ 73° F	32 to 140	**6MV69**
	1 ½ in x 1 in	MNPT x FNPT	235 psi @ 73° F	32 to 140	**2PMJ9**
	1 ½ in x 1 ¼ in	MNPT x FNPT	235 psi @ 73° F	32 to 140	**3TNU4**
	2 in x ½ in	MNPT x FNPT	200 psi @ 73° F	32 to 140	**6MV70**
	2 in x ¾ in	MNPT x FNPT	200 psi @ 73° F	32 to 140	**6MV71**
	2 in x 1 in	MNPT x FNPT	200 psi @ 73° F	32 to 140	**6MV72**
	2 in x 1 ¼ in	MNPT x FNPT	200 psi @ 73° F	32 to 140	**6MV73**
	2 in x 1 ½ in	MNPT x FNPT	200 psi @ 73° F	32 to 140	**3TNU5**
	3 in x 2 in	MNPT x FNPT	185 psi @ 73° F	32 to 140	**1VFN2**
	4 in x 2 in	MNPT x FNPT	160 psi @ 73° F	32 to 140	**1VFN4**
	4 in x 3 in	MNPT x FNPT	160 psi @ 73° F	32 to 140	**1VFN6**
Reducing Coupling					
	⅜ in x ¼ in	FNPT	460 psi @ 73° F	32 to 140	**22JY62**
	½ in x ¼ in	FNPT	425 psi @ 73° F	32 to 140	**22JY63**
	½ in x ⅜ in	FNPT	425 psi @ 73° F	32 to 140	**22JY64**
	¾ in x ½ in	FNPT	345 psi @ 73° F	32 to 140	**22JY65**
	1 in x ½ in	FNPT	315 psi @ 73° F	32 to 140	**22JY66**
	1 in x ¾ in	FNPT	315 psi @ 73° F	32 to 140	**22JY67**
	1 ½ in x 1 in	FNPT	235 psi @ 73° F	32 to 140	**22JY69**
	2 in x 1 ½ in	FNPT	200 psi @ 73° F	32 to 140	**22JY70**
Tee					
	¼ in x ¼ in x ¼ in	FNPT	565 psi @ 73° F	32 to 140	**3TNR9**
	½ in x ½ in x ½ in	FNPT	425 psi @ 73° F	32 to 140	**6NF93**
	¾ in x ¾ in x ¾ in	FNPT	345 psi @ 73° F	32 to 140	**6NF94**
	1 in x 1 in x 1 in	FNPT	315 psi @ 73° F	32 to 140	**6NF95**
	1 ¼ in x 1 ¼ in x 1 ¼ in	FNPT	260 psi @ 73° F	32 to 140	**6NF96**
	1 ½ in x 1 ½ in x 1 ½ in	FNPT	235 psi @ 73° F	32 to 140	**6NF97**
	2 in x 2 in x 2 in	FNPT	200 psi @ 73° F	32 to 140	**6NF98**
	3 in x 3 in x 3 in	FNPT	185 psi @ 73° F	32 to 140	**1VFD6**
	4 in x 4 in x 4 in	FNPT	160 psi @ 73° F	32 to 140	**1VFD8**
Union					
	½ in x ½ in	FNPT	235 psi @ 73° F	32 to 140	**11W266**
	¾ in x ¾ in	FNPT	235 psi @ 73° F	32 to 140	**11W267**
	1 in x 1 in	FNPT	235 psi @ 73° F	32 to 140	**11W268**
	1 ¼ in x 1 ¼ in	FNPT	235 psi @ 73° F	32 to 140	**11W269**
	1 ½ in x 1 ½ in	FNPT	235 psi @ 73° F	32 to 140	**11W270**
	2 in x 2 in	FNPT	235 psi @ 73° F	32 to 140	**11W271**
Socket x Threaded Schedule 80 Pipe Fittings					
90° Elbow					
	½ in x ½ in	F Socket X FNPT	425 psi @ 73° F	32 to 140	**2PMD8**
	¾ in x ¾ in	F Socket X FNPT	345 psi @ 73° F	32 to 140	**2PMD9**
	1 in x 1 in	F Socket X FNPT	315 psi @ 73° F	32 to 140	**2PME1**
	1 ¼ in x 1 ¼ in	F Socket X FNPT	260 psi @ 73° F	32 to 140	**2PME2**
	1 ½ in x 1 ½ in	F Socket X FNPT	235 psi @ 73° F	32 to 140	**2PME3**
	2 in x 2 in	F Socket X FNPT	200 psi @ 73° F	32 to 140	**2PME4**
	3 in x 3 in	F Socket X FNPT	185 psi @ 73° F	32 to 140	**2PME5**
Female Adapter					
	¼ in x ¼ in	F Socket X FNPT	565 psi @ 73° F	32 to 140	**3TNT5**
	½ in x ½ in	F Socket X FNPT	425 psi @ 73° F	32 to 140	**6NG76**
	¾ in x ¾ in	F Socket X FNPT	345 psi @ 73° F	32 to 140	**6NG77**
	1 in x 1 in	F Socket X FNPT	315 psi @ 73° F	32 to 140	**6NG78**
	1 ¼ in x 1 ¼ in	F Socket X FNPT	260 psi @ 73° F	32 to 140	**6NG79**
	1 ½ in x 1 ½ in	F Socket X FNPT	235 psi @ 73° F	32 to 140	**6MV30**
	2 in x 2 in	F Socket X FNPT	200 psi @ 73° F	32 to 140	**6MV31**
	2 ½ in x 2 ½ in	F Socket X FNPT	210 psi @ 73° F	32 to 140	**1VFJ5**
	3 in x 3 in	F Socket X FNPT	185 psi @ 73° F	32 to 140	**1VFJ7**
	4 in x 4 in	F Socket X FNPT	160 psi @ 73° F	32 to 140	**1VFJ9**
Male Adapter					
	½ in x ½ in	F Socket x MNPT	425 psi @ 73° F	32 to 140	**6MV35**
	¾ in x ¾ in	F Socket x MNPT	345 psi @ 73° F	32 to 140	**6MV36**
	1 in x 1 in	F Socket x MNPT	315 psi @ 73° F	32 to 140	**6MV37**
	1 ¼ in x 1 ¼ in	F Socket x MNPT	260 psi @ 73° F	32 to 140	**6MV38**
	1 ½ in x 1 ½ in	F Socket x MNPT	235 psi @ 73° F	32 to 140	**6MV39**
	2 in x 2 in	F Socket x MNPT	200 psi @ 73° F	32 to 140	**6MV40**
	2 ½ in x 2 ½ in	F Socket x MNPT	210 psi @ 73° F	32 to 140	**1VFK2**
	3 in x 3 in	F Socket x MNPT	185 psi @ 73° F	32 to 140	**1VFK4**
	4 in x 4 in	F Socket x MNPT	160 psi @ 73° F	32 to 140	**1VFK6**
Tee					
	½ in x ½ in x ½ in	F Socket x FNPT x FNPT	425 psi @ 73° F	32 to 140	**2TVH8**
	¾ in x ¾ in x ¾ in	F Socket x FNPT x FNPT	345 psi @ 73° F	32 to 140	**2PMD4**
	1 in x 1 in x 1 in	F Socket x FNPT x FNPT	315 psi @ 73° F	32 to 140	**2PMD5**
	1 ½ in x 1 ½ in x 1 ½ in	F Socket x FNPT x FNPT	235 psi @ 73° F	32 to 140	**2PMD6**

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PVC Pressure Pipe Fittings & Flanges, Schedule 80

Spigot x Threaded Schedule 80 Pipe Fittings

Reducing Bushing

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Reducing Bushing	½ in x ¼ in	M Spigot x FNPT	565 psi @ 73° F	32 to 140	2PMG1
	½ in x ⅜ in	M Spigot x FNPT	460 psi @ 73° F	32 to 140	2PMG2
	¾ in x ¼ in	M Spigot x FNPT	565 psi @ 73° F	32 to 140	2PMG3
	¾ in x ½ in	M Spigot x FNPT	425 psi @ 73° F	32 to 140	2PMG4
	1 in x ½ in	M Spigot x FNPT	425 psi @ 73° F	32 to 140	2PMG5
	1 in x ¾ in	M Spigot x FNPT	345 psi @ 73° F	32 to 140	2PMG6
	1 ¼ in x 1 in	M Spigot x FNPT	315 psi @ 73° F	32 to 140	2PMG9
	1 ½ in x ¾ in	M Spigot x FNPT	345 psi @ 73° F	32 to 140	2PMH2
	1 ½ in x 1 in	M Spigot x FNPT	315 psi @ 73° F	32 to 140	2PMH3
	1 ½ in x 1 ¼ in	M Spigot x FNPT	260 psi @ 73° F	32 to 140	2PMH4
	2 in x ½ in	M Spigot x FNPT	400 psi @ 73° F	32 to 140	2PMH5
	2 in x ¾ in	M Spigot x FNPT	345 psi @ 73° F	32 to 140	2PMH6
	2 in x 1 in	M Spigot x FNPT	315 psi @ 73° F	32 to 140	2PMH7
	2 in x 1 ¼ in	M Spigot x FNPT	260 psi @ 73° F	32 to 140	2PMH8
	2 ½ in x 1 ½ in	M Spigot x FNPT	235 psi @ 73° F	32 to 140	2PMJ1
	2 ½ in x 2 in	M Spigot x FNPT	200 psi @ 73° F	32 to 140	2PMJ2
	3 in x 2 in	M Spigot x FNPT	200 psi @ 73° F	32 to 140	1VFL5
	3 in x 2 ½ in	M Spigot x FNPT	210 psi @ 73° F	32 to 140	2PMJ3
	4 in x 2 in	M Spigot x FNPT	200 psi @ 73° F	32 to 140	1VFL7
	4 in x 3 in	M Spigot x FNPT	185 psi @ 73° F	32 to 140	1VFL9

Socket x Spigot Schedule 80 Pipe Fittings

Reducing Bushing

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Reducing Bushing	¾ in x ½ in	M Spigot x F Socket	690 psi @ 73° F	32 to 140	6MV45
	1 in x ½ in	M Spigot x F Socket	630 psi @ 73° F	32 to 140	6MV46
	1 in x ¾ in	M Spigot x F Socket	630 psi @ 73° F	32 to 140	6MV47
	1 ¼ in x 1 in	M Spigot x F Socket	520 psi @ 73° F	32 to 140	6MV49
	1 ½ in x ¾ in	M Spigot x F Socket	470 psi @ 73° F	32 to 140	6MV51
	1 ½ in x 1 in	M Spigot x F Socket	470 psi @ 73° F	32 to 140	6MV52
	1 ½ in x 1 ¼ in	M Spigot x F Socket	470 psi @ 73° F	32 to 140	6MV53
	2 in x ½ in	M Spigot x F Socket	400 psi @ 73° F	32 to 140	6MV54
	2 in x ¾ in	M Spigot x F Socket	400 psi @ 73° F	32 to 140	6MV55
	2 in x 1 in	M Spigot x F Socket	400 psi @ 73° F	32 to 140	6MV56
	2 in x 1 ¼ in	M Spigot x F Socket	400 psi @ 73° F	32 to 140	6MV57
	2 in x 1 ½ in	M Spigot x F Socket	400 psi @ 73° F	32 to 140	6MV58
	2 ½ in x 1 ½ in	M Spigot x F Socket	420 psi @ 73° F	32 to 140	3TNT9
	2 ½ in x 2 in	M Spigot x F Socket	420 psi @ 73° F	32 to 140	3TNU1
	3 in x 2 in	M Spigot x F Socket	370 psi @ 73° F	32 to 140	1VFK8
	3 in x 2 ½ in	M Spigot x F Socket	370 psi @ 73° F	32 to 140	3TNU2
	4 in x 2 in	M Spigot x F Socket	320 psi @ 73° F	32 to 140	1VFL1
	4 in x 3 in	M Spigot x F Socket	320 psi @ 73° F	32 to 140	1VFL3

Socket x Socket Schedule 80 Pipe Fittings

45° Elbow

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
45° Elbow	½ in x ½ in	F Socket	850 psi @ 73° F	32 to 140	6NG29
	¾ in x ¾ in	F Socket	690 psi @ 73° F	32 to 140	6NG30
	1 in x 1 in	F Socket	630 psi @ 73° F	32 to 140	6NG31
	1 ¼ in x 1 ¼ in	F Socket	520 psi @ 73° F	32 to 140	6NG32
	1 ½ in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	6NG33
	2 in x 2 in	F Socket	400 psi @ 73° F	32 to 140	6NG34
	2 ½ in x 2 ½ in	F Socket	420 psi @ 73° F	32 to 140	1VFF4
	3 in x 3 in	F Socket	370 psi @ 73° F	32 to 140	1VFF6
	4 in x 4 in	F Socket	320 psi @ 73° F	32 to 140	1VFF8
	6 in x 6 in	F Socket	280 psi @ 73° F	32 to 140	22JY46
	8 in x 8 in	F Socket	250 psi @ 73° F	32 to 140	22JY47

90° Elbow

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
90° Elbow	½ in x ½ in	F Socket	850 psi @ 73° F	32 to 140	6NG05
	¾ in x ¾ in	F Socket	690 psi @ 73° F	32 to 140	6NG06
	1 in x 1 in	F Socket	630 psi @ 73° F	32 to 140	6NG07
	1 ¼ in x 1 ¼ in	F Socket	520 psi @ 73° F	32 to 140	6NG08
	1 ½ in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	6NG09
	2 in x 2 in	F Socket	400 psi @ 73° F	32 to 140	6NG10
	2 ½ in x 2 ½ in	F Socket	420 psi @ 73° F	32 to 140	1VFE1
	3 in x 3 in	F Socket	370 psi @ 73° F	32 to 140	1VFE3
	4 in x 4 in	F Socket	320 psi @ 73° F	32 to 140	1VFE5
	6 in x 6 in	F Socket	280 psi @ 73° F	32 to 140	22JY40
	8 in x 8 in	F Socket	250 psi @ 73° F	32 to 140	22JY41

Cap

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Cap	½ in	F Socket	—	0 to 140	6ND11
	¾ in	F Socket	—	0 to 140	6ND12
	1 in	F Socket	—	0 to 140	6ND13
	1 ¼ in	F Socket	—	0 to 140	6ND14
	1 ½ in	F Socket	—	0 to 140	6ND15
	2 ½ in	F Socket	—	0 to 140	1VFN8
	2 in	F Socket	—	0 to 140	6ND16
	3 in	F Socket	—	0 to 140	1VFP1
	4 in	F Socket	—	0 to 140	1VFP3
	6 in	F Socket	—	0 to 140	22JY83
	8 in	F Socket	—	0 to 140	22JY84

Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Coupling	⅜ in x ⅜ in	F Socket	920 psi @ 73° F	32 to 140	22JY51
	½ in x ½ in	F Socket	850 psi @ 73° F	32 to 140	6NG52
	¾ in x ¾ in	F Socket	690 psi @ 73° F	32 to 140	6NG53
	1 in x 1 in	F Socket	630 psi @ 73° F	32 to 140	6NG54
	1 ¼ in x 1 ¼ in	F Socket	520 psi @ 73° F	32 to 140	6NG55
	1 ½ in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	6NG56
	2 in x 2 in	F Socket	400 psi @ 73° F	32 to 140	6NG57
	2 ½ in x 2 ½ in	F Socket	420 psi @ 73° F	32 to 140	1VFG5
	3 in x 3 in	F Socket	370 psi @ 73° F	32 to 140	1VFG7
	4 in x 4 in	F Socket	320 psi @ 73° F	32 to 140	1VFG9
	6 in x 6 in	F Socket	280 psi @ 73° F	32 to 140	22JY52
	8 in x 8 in	F Socket	250 psi @ 73° F	32 to 140	22JY53

Reducing Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Reducing Coupling	¾ in x ½ in	F Socket	690 psi @ 73° F	32 to 140	2PME6
	1 in x ¾ in	F Socket	630 psi @ 73° F	32 to 140	2PME8
	1 ¼ in x 1 in	F Socket	520 psi @ 73° F	32 to 140	3TNT3
	1 ½ in x ¾ in	F Socket	470 psi @ 73° F	32 to 140	2PMF1
	1 ½ in x 1 in	F Socket	470 psi @ 73° F	32 to 140	2PMF2
	1 ½ in x 1 ¼ in	F Socket	470 psi @ 73° F	32 to 140	2PMF3
	2 in x ½ in	F Socket	400 psi @ 73° F	32 to 140	2PMF4
	2 in x ¾ in	F Socket	400 psi @ 73° F	32 to 140	2PMF5
	2 in x 1 in	F Socket	400 psi @ 73° F	32 to 140	2PMF6
	2 in x 1 ¼ in	F Socket	400 psi @ 73° F	32 to 140	2PMF7
	2 in x 1 ½ in	F Socket	400 psi @ 73° F	32 to 140	2PMF8
	2 ½ in x 2 in	F Socket	420 psi @ 73° F	32 to 140	3TNT4
	3 in x 1 ½ in	F Socket	370 psi @ 73° F	32 to 140	22JY55
	3 in x 2 in	F Socket	370 psi @ 73° F	32 to 140	1VFH2
	3 in x 2 ½ in	F Socket	370 psi @ 73° F	32 to 140	22JY56
	4 in x 2 in	F Socket	320 psi @ 73° F	32 to 140	1VFH4
	4 in x 3 in	F Socket	320 psi @ 73° F	32 to 140	1VFH6
	6 in x 4 in	F Socket	280 psi @ 73° F	32 to 140	22JY57
	8 in x 4 in	F Socket	250 psi @ 73° F	32 to 140	22JY58

Reducing Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Reducing Tee	¾ in x ½ in x ¾ in	F Socket	690 psi @ 73° F	32 to 140	1VFA9
	1 in x ½ in x 1 in	F Socket	630 psi @ 73° F	32 to 140	1VFB2
	1 ½ in x ¾ in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	1VFB8
	1 ½ in x 1 in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	1VFC1
	2 in x 1 in x 2 in	F Socket	400 psi @ 73° F	32 to 140	1VFC3
	2 in x 1 ½ in x 2 in	F Socket	400 psi @ 73° F	32 to 140	1VFC5
	3 in x 2 in x 3 in	F Socket	370 psi @ 73° F	32 to 140	1VFC7
	4 in x 2 in x 4 in	F Socket	320 psi @ 73° F	32 to 140	1VFC9

Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Tee	½ in x ½ in x ½ in	F Socket	850 psi @ 73° F	32 to 140	6NF80
	¾ in x ¾ in x ¾ in	F Socket	690 psi @ 73° F	32 to 140	6NF81
	1 in x 1 in x 1 in	F Socket	630 psi @ 73° F	32 to 140	6NF82
	1 ¼ in x 1 ¼ in x 1 ¼ in	F Socket	520 psi @ 73° F	32 to 140	6NF83
	1 ½ in x 1 ½ in x 1 ½ in	F Socket	470 psi @ 73° F	32 to 140	6NF84
	2 in x 2 in x 2 in	F Socket	400 psi @ 73° F	32 to 140	6NF85
	2 in x 2 in x 2 in	F Socket x F Socket x FNPT	200 psi @ 73° F	32 to 140	2PMD7
	3 in x 3 in x 3 in	F Socket	370 psi @ 73° F	32 to 140	22JY29
	6 in x 6 in x 6 in	F Socket	280 psi @ 73° F	32 to 140	22JY30

Union

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Union	½ in x ½ in	F Socket	235 psi @ 73° F	32 to 140	11W260
	¾ in x ¾ in	F Socket	235 psi @ 73° F	32 to 140	11W261
	1 in x 1 in	F Socket	235 psi @ 73° F	32 to 140	11W262
	1 ¼ in x 1 ¼ in	F Socket	235 psi @ 73° F	32 to 140	11W263
	1 ½ in x 1 ½ in	F Socket	235 psi @ 73° F	32 to 140	11W264
	2 in x 2 in	F Socket	235 psi @ 73° F	32 to 140	11W265
	3 in x 3 in	F Socket	150 psi @ 73° F	32 to 140	1VGB5
	4 in x 4 in	F Socket	150 psi @ 73° F	32 to 140	1VGB7

Compression x Compression Schedule 80 Pipe Fittings

Compression Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Temp. Range (°F)	Item No.
Compression Coupling	½ in x ½ in	F Compression	150 psi	32 to 113	1WJU4
	¾ in x ¾ in	F Compression	150 psi	32 to 113	1WJU6
	1 in x 1 in	F Compression	150 psi	32 to 113	1WJU8
	1 ¼ in x 1 ¼ in	F Compression	150 psi	32 to 113	1WJV1
	1 ½ in x 1 ½ in	F Compression	150 psi	32 to 113	1WJV3
	2 in x 2 in	F Compression	150 psi	32 to 113	1WJV5
	2 ½ in x 2 ½ in	F Compression	150 psi	32 to 113	1WJV7
	3 in x 3 in	F Compression	150 psi	32 to 113	1WJV9
	4 in x 4 in	F Compression	150 psi	32 to 113	1WJW2

Threaded x Threaded Schedule 80 Flanges

Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Flange	½"	FNPT	3½"	4	6MV78
	1"	FNPT	4 3/16"	4	6MV80
	1¼"	FNPT	4 9/16"	4	6MV81
	1½"	FNPT	5"	4	6MV82
	2"	FNPT	6"	4	6MV83
	3"	FNPT	7½"	4	2PMK9
	4"	FNPT	9"	8	2PML1

Van Stone Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Van Stone Flange	1"	FNPT	4¼"	4	2PMN7
	1½"	FNPT	5"	4	2PMN9
	2"	FNPT	6"	4	2PMP1
	3"	FNPT	7½"	4	1VFT1
	4"	FNPT	9"	8	1VFT3

Blind Schedule 80 Flanges

Blind Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Blind Flange	2"	Socket	6"	4	1VFP9
	3"	Socket	7½"	4	1VFR2
	4"	Socket	9"	8	1VFR4

Socket x Socket Schedule 80 Flanges

Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Flange	¾"	Socket	3⅞"	4	2PMK2
	1"	Socket	4¼"	4	2PMK3
	1½"	Socket	5"	4	2PMK5
	2"	Socket	6"	4	6ND38
	2½"	Socket	7"	4	2PMK6
	3"	Socket	7½"	4	2PMK7
	4"	Socket	9"	8	3TNV5
	6"	Socket	11"	8	22JY91
	8"	Socket	13½"	8	22JY92

Van Stone Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Van Stone Flange	1"	Socket	4¼"	4	2PML9
	1½"	Socket	5"	4	2PMN2
	2"	Socket	6"	4	2PMN3
	2½"	Socket	7"	4	2PMN4
	3"	Socket	7½"	4	1VFR6
	4"	Socket	9"	8	1VFR8

Spigot x Spigot Schedule 80 Flanges

Van Stone Flange

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Flange Outside Diameter	No. of Bolt Holes	Item No.
Van Stone Flange	2"	Spigot	6"	4	22JZ01
	3"	Spigot	7½"	4	22JZ03
	4"	Spigot	9"	8	22JZ04
	6"	Spigot	11"	8	22JZ05
	8"	Spigot	13½"	8	22JZ06

PVC Irrigation Insert Pipe Fittings, Schedule 40

- Temp. range: 32° to 140°F
- Gray color, except 22FM91 Make Adapter is white
- Tees read: run x run x outlet

Fittings work in cold water applications where the fluid temperature does not exceed 140°F. They are for low-pressure use in irrigation, pools, pumps, wells, and other outdoor cold water applications. Not intended for hot or cold systems within residences or buildings, or for use with compressed air or gases. Fittings insert inside flexible polyethylene tubing and secure with worm drive clamps (sold separately on page 2532). PVC is a strong thermoplastic that resists ultraviolet (UV), acids, alkalis, oils, and many corrosive inorganic chemicals, making it resistant to the corrosive effects of sewage.

Insert x insert are barbed or inserted on both ends. **Insert x threaded** are barbed or inserted on one end with threading on the other end. **Insert x socket** are barbed or inserted on one end with a socket on the other end. The socket end, also called a hub or slip end, fits over the end of a pipe and requires glue or adhesive to seal connection.

Insert x Insert Pipe Fittings

90° Insert Elbow

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x M Insert	6MM71
¾"	M Insert x M Insert	6MM72
1"	M Insert x M Insert	6MM73
1¼"	M Insert x M Insert	6MM74
1½"	M Insert x M Insert	22FN05
2"	M Insert x M Insert	22FN06

90° Reducing Elbow

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾" x ½"	M Insert x M Insert	22FN71
1" x ¾"	M Insert x M Insert	22FN72

Coupling

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x M Insert	6MM75
¾"	M Insert x M Insert	6MM76
1"	M Insert x M Insert	6MM77
1¼"	M Insert x M Insert	6MM78
2"	M Insert x M Insert	22FN19
3"	M Insert x M Insert	22FN81
4"	M Insert x M Insert	22FN82

Cross Insert

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾"	M Insert	22FN79
1"	M Insert	22FN80

Reducing Coupling

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾" x ½"	M Insert x M Insert	22FN20

Reducing Tee

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾" x ½" x ¾"	M Insert x M Insert x M Double Helix	22FN43
¾" x ¾" x ½"	M Insert	22FN44
1" x ½" x 1"	M Insert x M Insert x M Double Helix	22FN45
1" x 1" x ½"	M Insert	22FN46
1¼" x 1" x 1¼"	M Insert	22FN03
1¼" x 1¼" x 1¼"	M Insert	6MM70
1½" x ¾" x 1½"	M Insert	22FN50
1½" x 1" x 1½"	M Insert	22FN04
2" x 1" x 2"	M Insert	22FN51
2" x 2" x 1½"	M Insert	22FN52

Straight Plug

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
	Insert	22FN34
½"	Insert	22FN34
¾"	Insert	22FN35
1"	Insert	22FN36
1¼"	Insert	22FN37
1½"	Insert	22FN38
2"	Insert	22FN39

Tee

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert	6MM67
¾"	M Insert	6MM68
1"	M Insert	6MM69
1½"	M Insert	22FM96
2"	M Insert	22FM97
3"	M Insert	22FN41

Insert x Threaded Pipe Fittings

90° Insert Elbow

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x FNPT	22FN07
½"	M Insert x MNPT	22FN13
¾"	M Insert x FNPT	22FN08
¾"	M Insert x MNPT	22FN14
1"	M Insert x FNPT	22FN09
1"	M Insert x MNPT	22FN15
1¼"	M Insert x MNPT	22FN16
1½"	M Insert x FNPT	22FN11
1½"	M Insert x MNPT	22FN17
2"	M Insert x FNPT	22FN12
2"	M Insert x MNPT	22FN18

90° Reducing Elbow

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾" x ½"	M Insert x FNPT	22FN73
1" x ½"	M Insert x FNPT	22FN74
1" x ¾"	M Insert x FNPT	22FN75
1¼" x ¾"	M Insert x FNPT	22FN76
1¼" x 1"	M Insert x FNPT	22FN77
1½" x 1"	M Insert x FNPT	22FN78

Adapter Insert

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x MNPT	6MM79
¾"	M Insert x MNPT	6MM80
1"	M Insert x MNPT	6MM81
1¼"	M Insert x MNPT	6MM82
3"	M Insert x FNPT	22FN88

Female Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x FNPT	22FN26
¾"	M Insert x FNPT	22FN27
1"	M Insert x FNPT	22FN28
1¼"	M Insert x FNPT	22FN29
1½"	M Insert x FNPT	22FN30
2"	M Insert x FNPT	22FN31

Female Adapter Tee

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾"	M Insert x M Insert x FNPT	22FN54

Male Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
1½"	M Insert x MNPT	22FN32
2"	M Insert x MNPT	22FN33

Male Adapter Tee

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
½"	M Insert x M Insert x MNPT	22FN67
¾"	M Insert x M Insert x MNPT	22FN68
1"	M Insert x M Insert x MNPT	22FN69

Reducing Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
1" x ½"	M Insert x FNPT	22FN90
1" x 1½"	M Insert x MNPT	22FN99
1¼" x 1"	M Insert x MNPT	22FN94
1¼" x 1"	MNPT x M Insert	22FN96
1½" x 1"	M Insert x MNPT	22FN95
1½" x 1¼"	MNPT x M Insert	22FP01
2" x 1½"	M Insert x MNPT	22FP02

Reducing Adapter Tee

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
¾" x ½" x ¾"	M Insert x M Insert x FNPT	22FN57
1" x 1" x ½"	M Insert x M Insert x FNPT	22FN59
1¼" x ½" x 1¼"	M Insert x M Insert x FNPT	22FN61

Insert x Socket Pipe Fittings

Adapter Insert

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
1"	M Insert x M Spigot	22FN87

Male Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
2"	FSocket x M Insert	22FM91

CPVC Pipe & Pipe Nipples, Schedule 80

- Low-pressure (100-299 psi)
- Medium-pressure (300-999 psi)

Nontoxic CPVC (chlorinated polyvinyl chloride) is a lightweight, strong, rigid thermoplastic material that resists corrosion, chemicals, and rust. CPVC is immune to damage from highly chlorinated water and resists most acids, aliphatic solutions, bases, halogens, oxidants, and salts. Thicker walls than Schedule 40, but not as thick as Schedule 160, it is used to transport potable water, corrosive liquids, and sewage. Use PTFE tape to secure seal.

Unthreaded Pipe 6MZ10

Fully Threaded Nipple 1VGU9

Threaded on Both Ends Nipple 6MX60

Schedule 80 Unthreaded Medium Pressure Pipe, Gray

Nominal Pipe Size	Overall Length 10-ft Item No.
½"	6MZ10
¾"	6MZ11
1"	6MZ12
1¼"	6MZ13
1½"	6MZ14
2"	6MZ15
2½"	1VGD9
3"	1VEV8
4"	1VEW1
6"	22FR50
8"	22FR51

Schedule 80 Fully Threaded Medium Pressure Nipples, MNPT, Gray

Nominal Pipe Size	Overall Length	Item No.
½"	1 13/100"	3TPV4
¾"	1 19/50"	6MX65
1"	1½"	6MX70
1¼"	1 63/100"	2PMA2
1½"	1¾"	22JZ87
2"	2"	2PMA9
2½"	2½"	1VGU9
3"	2 63/100"	1VGW1
4"	2 22/25"	1VGX2

Schedule 80 Threaded on Both Ends Medium Pressure Nipples, MNPT, Gray

Nominal Pipe Size	Overall Length 2" Item No.	2½" Item No.	3" Item No.	4" Item No.	5" Item No.	6" Item No.	8" Item No.	10" Item No.	12" Item No.
½"	6MX60	—	6MX61	6MX62	6MX63	2PLZ7	—	22EY18	22EY28
¾"	6MX55	—	6MX66	6MX67	2PLZ8	6MX69	—	22EY19	22EY29
1"	22JZ85	—	6MX72	6MX73	2PLZ9	6MX74	—	22EY20	22EY30
1¼"	22JZ86	—	2PMA3	2PMA4	2PMA5	2PMA6	—	22EY21	22EY31
1½"	6MX81	—	6MX82	6MX83	2PMA7	2PMA8	—	22EY22	22EY32
2"	22EY10	22JZ88	2PMC1	2PMC2	2PMC3	2PMC4	—	22EY23	22EY33
2½"	—	—	1VGV2	1VGV4	—	—	22EY15	22EY24	—
3"	—	—	1VGW3	1VGW5	1VGW7	1VGW9	22EY16	22EY25	22EY34
4"	—	—	22EY13	22JZ89	—	1VGX8	22EY17	22EY26	22EY35
6"	—	—	—	22EY37	—	22EY38	22EY39	22EY40	22EY36

CPVC Pressure Pipe Fittings & Flanges, Schedule 80

- Gray color
- Flanges max. operating pressure: 150 psi
- Tees read: run x run x outlet

Nontoxic CPVC (chlorinated polyvinyl chloride) pipe fittings and flanges are pressure rated to transport potable water, corrosive liquids, and sewage. CPVC is a strong, rigid thermoplastic material that resists corrosion, chemicals, and rust.

Threaded fittings—Threaded on all connection ends, and use PTFE tape to secure seal.

Socket fittings—Ends fit over the end of pipe and require glue or adhesive to secure the connection.

Socket x spigot fittings—Include a socket (hub or slip) end that fits over a pipe and a spigot (also known as street) end that fits inside a socket. The spigot end is necessary when a fitting connects to another fitting (not directly to a pipe). These fittings require glue or adhesive to secure the connection.

Socket x threaded fittings—Threaded connections use PTFE tape to secure seal. Socket ends require glue or adhesive to secure connection.

Threaded flanges—Used with pipes that have external threads, so a welded connection is not required. Flanges have a raised face, flat face, or RTJ (ring-type joint) facing, and are often used for small diameter, high pressure requirements.

Blind flanges—Commonly used for testing the flow of gas or liquid through a pipe or vessel by blocking off a section of the pipe that is not used. They typically have a raised, flat, or RTJ (ring-type joint) face.

Socket flanges—Slip over pipe and secure using solvent cement. There are two types of socket, or slip, flanges. One-piece flanges are solid molded parts and once glued to pipeline cannot be turned. The Van Stone flange is a two-piece flange with a rotating ring that makes bolt alignment simple. This flange has one female threaded end that connects to a male threaded fitting or nipple.

Spigot flanges—Fit into a CPVC or PVC fitting. The spigot (also known as street end) fits inside a flange fitting. The spigot end is necessary when a fitting connects to another fitting (not directly to a pipe). These fittings require glue or adhesive to secure the connection.

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
Threaded x Threaded Schedule 80 Pipe Fittings				
45° Elbow, FNPT				
	¼" x ¼"	565 psi @ 73° F	32° to 200° F	22JZ38
	½" x ½"	425 psi @ 73° F	32° to 200° F	6ND94
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	6ND95
	1" x 1"	315 psi @ 73° F	32° to 200° F	2PLL4
	1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	2PLL5
	1½" x 1½"	235 psi @ 73° F	32° to 200° F	2PLL6
	2" x 2"	200 psi @ 73° F	32° to 200° F	2PLL7
	3" x 3"	185 psi @ 73° F	32° to 200° F	1VGK5
90° Elbow, FNPT				
	¼" x ¼"	565 psi @ 73° F	32° to 200° F	22JZ32
	⅜" x ⅜"	460 psi @ 73° F	32° to 200° F	22JZ33
	½" x ½"	425 psi @ 73° F	32° to 200° F	6ND76
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	6ND77
	1" x 1"	315 psi @ 73° F	32° to 200° F	6ND78
	1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	6ND79
	1½" x 1½"	235 psi @ 73° F	32° to 200° F	6ND80
	2" x 2"	200 psi @ 73° F	32° to 200° F	2PLL1
	3" x 3"	185 psi @ 73° F	32° to 200° F	1VGJ4
	4" x 4"	160 psi @ 73° F	32° to 200° F	1VGJ6
Cap, FNPT				
	¼"	—	0° to 176° F	22JZ65
	⅜"	—	0° to 210° F	2PLU9
	½"	—	0° to 210° F	2PLV1
	¾"	—	0° to 210° F	2PLV2
	1"	—	0° to 210° F	2PLV3
	1¼"	—	0° to 210° F	2PLV4
	1½"	—	0° to 210° F	2PLV5
	2"	—	0° to 210° F	2PLV6
Coupling, FNPT				
	¼" x ¼"	565 psi @ 73° F	32° to 200° F	22JZ46
	⅜" x ⅜"	460 psi @ 73° F	32° to 200° F	22JZ47
	½" x ½"	425 psi @ 73° F	32° to 200° F	6NF14
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	6NF15
	1" x 1"	315 psi @ 73° F	32° to 200° F	6NF16
	1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	2PLP4
	1½" x 1½"	235 psi @ 73° F	32° to 200° F	2PLP5
	2" x 2"	200 psi @ 73° F	32° to 200° F	6NF18
	3" x 3"	185 psi @ 73° F	32° to 200° F	1VGN1
	4" x 4"	160 psi @ 73° F	32° to 200° F	1VGN3
Hex Head Plug, MNPT				
	¼"	565 psi @ 73 °F	0° to 210° F	6MX23
	⅜"	460 psi @ 73 °F	0° to 210° F	6MX24
	½"	425 psi @ 73 °F	0° to 210° F	6MX25
	¾"	345 psi @ 73 °F	0° to 210° F	6MX26
	1"	315 psi @ 73 °F	0° to 210° F	6MX27
	1½"	235 psi @ 73 °F	0° to 210° F	6MX28
	2"	200 psi @ 73 °F	0° to 210° F	6MX29
	3"	185 psi @ 73 °F	0° to 210° F	2PLV7
	4"	160 psi @ 73 °F	0° to 210° F	3TNX8
Reducing Bushing, MNPT x FNPT				
	½" x ¼"	425 psi @ 73° F	32° to 200° F	3TNX5
	½" x ⅜"	425 psi @ 73 °F	32° to 200° F	3TNX6
	¾" x ½"	345 psi @ 73° F	32° to 200° F	6MW98
	1" x ½"	315 psi @ 73° F	32° to 200° F	3TNX7
	1" x ¾"	315 psi @ 73° F	32° to 200° F	6MW99
	1¼" x 1"	260 psi @ 73° F	32° to 200° F	6MX01
	1½" x ¾"	235 psi @ 73° F	32° to 200° F	2PLU5
	1½" x 1"	235 psi @ 73° F	32° to 200° F	3TPV2
	1½" x 1¼"	235 psi @ 73° F	32° to 200° F	6MX02
	2" x 1"	200 psi @ 73° F	32° to 200° F	2PLU6
	2" x 1¼"	200 psi @ 73° F	32° to 200° F	2PLU7
	2" x 1½"	200 psi @ 73° F	32° to 200° F	6MX03
Reducing Coupling, FNPT				
	½" x ¼"	425 psi @ 73° F	32° to 200° F	22JZ48
	½" x ⅜"	425 psi @ 73° F	32° to 200° F	22JZ49
	¾" x ½"	345 psi @ 73° F	32° to 200° F	22JZ50
	1" x ¾"	315 psi @ 73° F	32° to 200° F	22JZ51
	1½" x 1"	235 psi @ 73° F	32° to 200° F	22JZ52

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
Tee, FNPT				
	¼" x ¼" x ¼"	565 psi @ 73° F	32° to 200° F	3TNW6
	⅜" x ⅜" x ⅜"	460 psi @ 73° F	32° to 200° F	3TNW7
	½" x ½" x ½"	425 psi @ 73° F	32° to 200° F	6ND55
	¾" x ¾" x ¾"	345 psi @ 73° F	32° to 200° F	6ND56
	1" x 1" x 1"	315 psi @ 73° F	32° to 200° F	6ND57
	1¼" x 1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	6ND58
	1½" x 1½" x 1½"	235 psi @ 73° F	32° to 200° F	2LUV1
	2" x 2" x 2"	200 psi @ 73° F	32° to 200° F	2TVJ4
	3" x 3" x 3"	185 psi @ 73° F	32° to 200° F	1VGH3
Socket x Socket Schedule 80 Pipe Fittings				
45° Elbow, F Socket				
	½" x ½"	850 psi @ 73° F	32° to 200° F	6ND82
	¾" x ¾"	690 psi @ 73° F	32° to 200° F	6ND83
	1" x 1"	630 psi @ 73° F	32° to 200° F	6ND84
	1¼" x 1¼"	520 psi @ 73° F	32° to 200° F	6ND85
	1½" x 1½"	470 psi @ 73° F	32° to 200° F	2PLL3
	2" x 2"	400 psi @ 73° F	32° to 200° F	6ND87
	2½" x 2½"	420 psi @ 73° F	32° to 200° F	1VGJ8
	3" x 3"	370 psi @ 73° F	32° to 200° F	1VGK1
	4" x 4"	320 psi @ 73° F	32° to 200° F	1VGK3
	6" x 6"	280 psi @ 73° F	32° to 200° F	22JZ36
	8" x 8"	250 psi @ 73° F	32° to 200° F	22JZ37
90° Elbow, F Socket				
	½" x ½"	850 psi @ 73° F	32° to 200° F	6ND63
	¾" x ¾"	690 psi @ 73° F	32° to 200° F	6ND64
	1" x 1"	630 psi @ 73° F	32° to 200° F	6ND65
	1¼" x 1¼"	520 psi @ 73° F	32° to 200° F	6ND66
	1½" x 1½"	470 psi @ 73° F	32° to 200° F	6ND67
	2" x 2"	400 psi @ 73° F	32° to 200° F	6ND68
	2½" x 2½"	420 psi @ 73° F	32° to 200° F	1VGH7
	3" x 3"	370 psi @ 73° F	32° to 200° F	1VGH9
	4" x 4"	320 psi @ 73° F	32° to 200° F	1VGJ2
	6" x 6"	280 psi @ 73° F	32° to 200° F	22JZ30
	8" x 8"	250 psi @ 73° F	32° to 200° F	22JZ31
Cap, F Socket				
	½"	—	0° to 210° F	6MX04
	¾"	—	0° to 210° F	6MX05
	1"	—	0° to 210° F	2PLU8
	1¼"	—	0° to 210° F	6MX07
	1½"	—	0° to 210° F	6MX08
	2"	—	0° to 210° F	6MX09
	2½"	—	0° to 210° F	1VGT2
	3"	—	0° to 210° F	1VGT4
	4"	—	0° to 210° F	1VGT6
Coupling, F Socket				
	½" x ½"	850 psi @ 73° F	32° to 200° F	6NF02
	¾" x ¾"	690 psi @ 73° F	32° to 200° F	6NF03
	1" x 1"	630 psi @ 73° F	32° to 200° F	6NF04
	1¼" x 1¼"	520 psi @ 73° F	32° to 200° F	6NF05
	1½" x 1½"	470 psi @ 73° F	32° to 200° F	6NF06
	2" x 2"	400 psi @ 73° F	32° to 200° F	6NF07
	2½" x 2½"	420 psi @ 73° F	32° to 200° F	1VGK7
	3" x 3"	370 psi @ 73° F	32° to 200° F	1VGK9
	4" x 4"	320 psi @ 73° F	32° to 200° F	1VGL2
	6" x 6"	280 psi @ 73° F	32° to 200° F	22JZ42
	8" x 8"	250 psi @ 73° F	32° to 200° F	22JZ43

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
Reducing Coupling, F Socket				
	¾" x ½"	690 psi @ 73° F	32° to 200° F	2PLL9
	1" x ½"	630 psi @ 73° F	32° to 200° F	2PLN1
	1" x ¾"	630 psi @ 73° F	32° to 200° F	2PLN2
	1½" x ½"	470 psi @ 73° F	32° to 200° F	2PLN3
	1½" x ¾"	470 psi @ 73° F	32° to 200° F	2PLN4
	1½" x 1"	470 psi @ 73° F	32° to 200° F	2PLN5
	1½" x 1¼"	470 psi @ 73° F	32° to 200° F	2PLN6
	2" x ½"	400 psi @ 73° F	32° to 200° F	2PLN7
	2" x 1"	400 psi @ 73° F	32° to 200° F	2PLN9
	2" x 1¼"	400 psi @ 73° F	32° to 200° F	2PLP1
	2" x 1½"	400 psi @ 73° F	32° to 200° F	2PLP2
	2½" x 1½"	420 psi @ 73° F	32° to 200° F	2PLP3
	3" x 2"	370 psi @ 73° F	32° to 200° F	1VGL4
	4" x 2"	320 psi @ 73° F	32° to 200° F	1VGL6
	4" x 3"	320 psi @ 73° F	32° to 200° F	1VGL8
Reducing Tee, F Socket				
	¾" x ½" x ¾"	690 psi @ 73° F	32° to 200° F	1VGE8
	1" x ½" x 1"	630 psi @ 73° F	32° to 200° F	1VGF1
	1" x ¾" x 1"	630 psi @ 73° F	32° to 200° F	1VGF3
	1¼" x 1" x 1¼"	520 psi @ 73° F	32° to 200° F	1VGF5
	1½" x ½" x 1½"	470 psi @ 73° F	32° to 200° F	22JZ25
	1½" x ¾" x 1½"	470 psi @ 73° F	32° to 200° F	1VGF7
	1½" x 1" x 1½"	470 psi @ 73° F	32° to 200° F	1VGF9
	2" x 1" x 2"	400 psi @ 73° F	32° to 200° F	1VGG2
	2" x 1½" x 2"	400 psi @ 73° F	32° to 200° F	1VGG4
	3" x 2" x 3"	370 psi @ 73° F	32° to 200° F	1VGG6
	4" x 2" x 4"	320 psi @ 73° F	32° to 200° F	1VGG8
	4" x 3" x 4"	320 psi @ 73° F	32° to 200° F	1VGH1
	6" x 4" x 6"	280 psi @ 73° F	32° to 200° F	22JZ26
	8" x 6" x 8"	250 psi @ 73° F	32° to 200° F	22JZ27
Reducing Wye, F Socket				
	2" x 2" x 1½"	235 psi @ 73° F	32° to 200° F	22JZ92
	3" x 3" x 1½"	150 psi @ 73° F	32° to 200° F	22JZ93
	3" x 3" x 2"	150 psi @ 73° F	32° to 200° F	22JZ94
	4" x 4" x 2"	150 psi @ 73° F	32° to 200° F	22JZ95
	4" x 4" x 3"	150 psi @ 73° F	32° to 200° F	22JZ96
	6" x 6" x 3"	150 psi @ 73° F	32° to 200° F	22JZ97
	6" x 6" x 4"	150 psi @ 73° F	32° to 200° F	22JZ98
Tee, F Socket				
	½" x ½" x ½"	850 psi @ 73° F	32° to 200° F	6ND42
	¾" x ¾" x ¾"	690 psi @ 73° F	32° to 200° F	6ND43
	1" x 1" x 1"	630 psi @ 73° F	32° to 200° F	6ND44
	1¼" x 1¼" x 1¼"	520 psi @ 73° F	32° to 200° F	6ND45
	1½" x 1½" x 1½"	470 psi @ 73° F	32° to 200° F	6ND46
	2" x 2" x 2"	400 psi @ 73° F	32° to 200° F	6ND47
	2½" x 2½" x 2½"	420 psi @ 73° F	32° to 200° F	1VGE2
	3" x 3" x 3"	370 psi @ 73° F	32° to 200° F	1VGE4
	4" x 4" x 4"	320 psi @ 73° F	32° to 200° F	1VGE6
Union, F Socket				
	3" x 3"	150 psi @ 73° F	32° to 200° F	1VGY1
	4" x 4"	150 psi @ 73° F	32° to 200° F	1VGY3
Wye, F Socket				
	1½" x 1½" x 1½"	235 psi @ 73° F	32° to 200° F	1VGY5
	2" x 2" x 2"	235 psi @ 73° F	32° to 200° F	1VGY7
	3" x 3" x 3"	150 psi @ 73° F	32° to 200° F	1VGY9
	4" x 4" x 4"	150 psi @ 73° F	32° to 200° F	1VGZ2
	6" x 6" x 6"	150 psi @ 73° F	32° to 200° F	22JZ90

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CPVC Pressure Pipe Fittings & Flanges, Schedule 80

Socket x Spigot Schedule 80 Pipe Fittings

Reducing Bushing, M Spigot x F Socket

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
	½" x ¼"	850 psi @ 73° F	32° to 200° F	6NF33
	½" x ⅜"	850 psi @ 73° F	32° to 200° F	1VGP2
	¾" x ½"	690 psi @ 73° F	32° to 200° F	6NF34
	1" x ½"	630 psi @ 73° F	32° to 200° F	6NF35
	1" x ¾"	630 psi @ 73° F	32° to 200° F	6NF36
	1¼" x ½"	520 psi @ 73° F	32° to 200° F	3TNX2
	1¼" x ¾"	520 psi @ 73° F	32° to 200° F	2PLP9
	1¼" x 1"	520 psi @ 73° F	32° to 200° F	6MW82
	1½" x ¾"	470 psi @ 73° F	32° to 200° F	6MW84
	1½" x 1"	470 psi @ 73° F	32° to 200° F	6MW85
	1½" x 1¼"	470 psi @ 73° F	32° to 200° F	6MW86
	2" x ½"	400 psi @ 73° F	32° to 200° F	6MW87
	2" x ¾"	400 psi @ 73° F	32° to 200° F	2PLR1
	2" x 1"	400 psi @ 73° F	32° to 200° F	2PLR2
	2" x 1¼"	400 psi @ 73° F	32° to 200° F	6MW90
	2" x 1½"	400 psi @ 73° F	32° to 200° F	6MW91
	2½" x 1½"	420 psi @ 73° F	32° to 200° F	3TNX3
	2½" x 2"	420 psi @ 73° F	32° to 200° F	3TNX4
	3" x 2"	370 psi @ 73° F	32° to 200° F	1VGP6
	3" x 2½"	370 psi @ 73° F	32° to 200° F	1VGP8
	4" x 2"	320 psi @ 73° F	32° to 200° F	1VGR1
	4" x 3"	320 psi @ 73° F	32° to 200° F	1VGR3

Socket x Threaded Schedule 80 Pipe Fittings

90° Elbow, F Socket x FNPT

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
	½" x ½"	425 psi @ 73° F	32° to 200° F	3TNW8
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	3TNW9
	1" x 1"	315 psi @ 73° F	32° to 200° F	3TNX1

Female Adapter, F Socket x FNPT

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
	¼" x ¼"	565 psi @ 73° F	32° to 200° F	3TPV1
	½" x ½"	425 psi @ 73° F	32° to 200° F	6NF20
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	6NF21
	1" x 1"	315 psi @ 73° F	32° to 200° F	6NF22
	1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	6NF23
	1½" x 1½"	235 psi @ 73° F	32° to 200° F	6NF24
	2" x 2"	200 psi @ 73° F	32° to 200° F	6NF25
	3" x 3"	185 psi @ 73° F	32° to 200° F	1VGN5
	4" x 4"	160 psi @ 73° F	32° to 200° F	1VGN7
	6" x 6"	140 psi @ 73° F	32° to 200° F	22JZ53
	8" x 8"	125 psi @ 73° F	32° to 200° F	22JZ54

Male Adapter, F Socket x MNPT

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
	½" x ½"	425 psi @ 73° F	32° to 200° F	6NF28
	¾" x ¾"	345 psi @ 73° F	32° to 200° F	6NF29
	1" x 1"	315 psi @ 73° F	32° to 200° F	6NF30
	1¼" x 1¼"	260 psi @ 73° F	32° to 200° F	6NF31
	1½" x 1½"	235 psi @ 73° F	32° to 200° F	6NF32
	2" x 2"	200 psi @ 73° F	32° to 200° F	2PLP7
	3" x 3"	185 psi @ 73° F	32° to 200° F	1VGN9
	4" x 4"	160 psi @ 73° F	32° to 200° F	2PLP8
	6" x 6"	140 psi @ 73° F	32° to 200° F	22JZ55
	8" x 8"	125 psi @ 73° F	32° to 200° F	22JZ56

Reducing Bushing, M Spigot x FNPT

Description	Fitting Pipe Size	Max. Operating Pressure	Temp. Range	Item No.
	½" x ¼"	425 psi @ 73° F	32° to 200° F	2PLR3
	½" x ⅜"	425 psi @ 73° F	32° to 200° F	2PLR4
	¾" x ¼"	345 psi @ 73° F	32° to 200° F	2PLR5
	¾" x ½"	345 psi @ 73° F	32° to 200° F	2PLR6
	1" x ½"	315 psi @ 73° F	32° to 200° F	2PLR7
	1" x ¾"	315 psi @ 73° F	32° to 200° F	2PLR8
	1¼" x ½"	260 psi @ 73° F	32° to 200° F	2PLR9
	1¼" x ¾"	260 psi @ 73° F	32° to 200° F	2PLT1
	1¼" x 1"	260 psi @ 73° F	32° to 200° F	2PLT2
	1½" x ¾"	235 psi @ 73° F	32° to 200° F	2PLT4
	1½" x 1"	235 psi @ 73° F	32° to 200° F	2PLT5
	1½" x 1¼"	235 psi @ 73° F	32° to 200° F	2PLT6
	2" x ½"	200 psi @ 73° F	32° to 200° F	2PLT7
	2" x ¾"	200 psi @ 73° F	32° to 200° F	2PLT8
	2" x 1"	200 psi @ 73° F	32° to 200° F	2PLT9
	2" x 1¼"	200 psi @ 73° F	32° to 200° F	2PLU1
	2" x 1½"	200 psi @ 73° F	32° to 200° F	2PLU2
	2½" x 1½"	210 psi @ 73° F	32° to 200° F	2PLU3
	2½" x 2"	210 psi @ 73° F	32° to 200° F	2PLU4
	3" x 2"	185 psi @ 73° F	32° to 200° F	1VGR5
	4" x 2"	160 psi @ 73° F	32° to 200° F	1VGR7

Threaded Schedule 80 Flanges

Flange , FNPT

Description	Fitting Pipe Size	Flange Outside Diameter	Temp. Range	No. of Bolt Holes	Item No.
	½"	3½"	210° F	4	2PLW8
	¾"	3⅞"	210° F	4	2PLW9
	1"	4¼"	210° F	4	2PLX1
	1¼"	4⅝"	210° F	4	2PLX2
	1½"	5"	210° F	4	2PLX3
	2"	6"	210° F	4	2PLX4
	2½"	7"	210° F	4	2PLX5
	3"	7½"	210° F	4	2PLX6
	4"	9"	210° F	8	2PLX7

Blind Schedule 80 Flanges

Blind Flange

Description	Fitting Pipe Size	Flange Outside Diameter	Temp. Range	No. of Bolt Holes	Item No.
	1"	4¼"	32° to 200° F	4	2PLY1
	1½"	5"	210° F	4	2PLY3
	2"	6"	210° F	4	1VGT8
	2½"	7"	210° F	4	2PLY4
	3"	7½"	210° F	4	1VGU1
	4"	9"	210° F	8	1VGU3
	6"	11"	176° F	8	22JZ69

Socket Schedule 80 Flanges

Flange, Socket

Description	Fitting Pipe Size	Flange Outside Diameter	Temp. Range	No. of Bolt Holes	Item No.
	½"	3½"	210° F	4	2PLV8
	¾"	3⅞"	210° F	4	2PLV9
	1"	4³⁄₁₆"	210° F	4	2PLW1
	1¼"	4⅝"	210° F	4	2PLW2
	1½"	5"	210° F	4	2PLW3
	2"	6"	210° F	4	2PLW4
	2½"	7"	210° F	4	2PLW5
	3"	7½"	210° F	4	2PLW6
	4"	9"	210° F	8	2PLW7

Van Stone Flange, Socket

Description	Fitting Pipe Size	Flange Outside Diameter	Temp. Range	No. of Bolt Holes	Item No.
	½"	3½"	210° F	4	2PLY5
	¾"	3⅞"	210° F	4	2PLY6
	1"	4¼"	210° F	4	2PLY7
	1¼"	4⅝"	210° F	4	2PLY8
	1½"	5"	210° F	4	2PLY9
	2"	6"	210° F	4	2PLZ1
	2½"	7"	210° F	4	2PLZ2
	3"	7½"	210° F	4	1VGU5

Spigot Schedule 80 Flanges

Van Stone Flange, Spigot

Description	Fitting Pipe Size	Flange Outside Diameter	Temp. Range	No. of Bolt Holes	Item No.
	½"	3½"	176° F	4	22JZ74
	¾"	3⅞"	176° F	4	22JZ75
	1"	4¼"	176° F	4	22JZ76
	1¼"	4⅝"	176° F	4	22JZ77
	1½"	5"	176° F	4	22JZ78
	2"	6"	176° F	4	22JZ79

ABS Drain, Waste & Vent Pipe and Fittings, Schedule 40

- Black color

Drain, waste, and vent (DWV) systems convey effluent streams, such as black water or gray water waste. ABS (acrylonitrile butadiene styrene) is an opaque thermoplastic polymer with high tensile strength and low temperature properties. The smooth interior walls resist physical impact, chemical corrosion, and scaling. Not for use in pressure applications.

Threaded x threaded—Threaded on all connection ends. Female threads are on the inside of a fitting. Male threads are on the outside of a fitting and screw into the female threads. Use PTFE tape to secure seal.

Threaded x spigot—Threaded connections use PTFE tape to secure seal. Spigot fittings connect to another fitting (not directly to a pipe), and require glue or adhesive to secure the connection.

Socket x threaded—Have at least one threaded end and one socket (hub or slip) fitting end. Female threads are on the inside of a fitting. Male threads are on the outside of a fitting and screw into the female threads. Threaded connections use PTFE tape to secure seal.

Socket x socket— Include socket ends on all fitting connection ends. The socket ends fit over the end of an ABS pipe and require glue or adhesive to secure the connection.

Socket x spigot—Fittings include a socket (hub or slip) end that fits over a pipe and a spigot (also known as street end) that fits inside a socket. The spigot end is needed when a fitting connects to another fitting (not directly to a pipe). Use glue or adhesive to seal the connection.

Pipe - 10 ft, Unthreaded

Nominal Pipe Size	Item No.
1½"	2DGF9
2"	2DGG1
3"	2DGG2
4"	2DGG3

Threaded x Threaded Pipe Fittings

Cleanout Plug

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
1½"	MNPT	-40° to 180° F	1WJE1
2"	MNPT	-40° to 180° F	1WJE2
3"	MNPT	-40° to 180° F	1WJE3
4"	MNPT	-40° to 180° F	1WJE4

Threaded Cap

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
1½"	FNPT	-40° to 180° F	1WJG3

Threaded x Spigot Pipe Fittings

Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
1½"	MNPT x F Socket	-20° to 140° F	1WJL9
2"	M Spigot x MNPT	-20° to 140° F	1WJL8

Cleanout Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
2"	M Spigot x FNPT	-20° to 140° F	1WJC7
2" x 2"	M Spigot x FNPT	-20° to 140° F	1WJC7
3"	M Spigot x FNPT	-20° to 140° F	1WJC8

Cleanout Adapter with Plug

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
2"	M Spigot x FNPT	-20° to 140° F	3JWD5
2" x 2"	M Spigot x FNPT	-20° to 140° F	3JWD5
3"	M Spigot x FNPT	-20° to 140° F	1WJG7
4"	M Spigot x FNPT	-20° to 140° F	1WJG8

Flush Bushing

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
2" x 1½"	M Spigot x FNPT	-20° to 140° F	1WJC4

Socket x Threaded Pipe Fittings

Adapter

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
1½"	FNPT x F Socket	-20° to 140° F	1WHX4
1½"	MNPT x F Socket	-20° to 140° F	1WJD2
2"	FNPT x F Socket	-20° to 140° F	1WHX5
2"	MNPT x F Socket	-20° to 140° F	1WJD3
3"	FNPT x F Socket	-20° to 140° F	1WHX6
3"	MNPT x F Socket	-20° to 140° F	1WJD4
4"	FNPT x F Socket	-20° to 140° F	1WJN1
4"	MNPT x F Socket	-20° to 140° F	1WJD5

Cleanout Tee with Plug

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
1½"	F Socket x F Socket x FNPT	-20° to 140° F	1WJG4
2"	F Socket x F Socket x FNPT	-20° to 140° F	1WJG5
3"	F Socket x F Socket x FNPT	-20° to 140° F	1WJG6
4"	F Socket x F Socket x FNPT	-20° to 140° F	3JWD7

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ABS Drain, Waste & Vent Pipe and Fittings, Schedule 40

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
Socket x Socket Pipe Fittings			
22-1/2° Elbow			
2"	F Socket	-20° to 140° F	1WJB4
2" x 2"	F Socket	-20° to 140° F	1WJB4
45° Elbow			
1½"	F Socket	-20° to 140° F	1WJA1
2"	F Socket	-20° to 140° F	1WJA2
3"	F Socket	-20° to 140° F	1WJA3
4"	F Socket	-20° to 140° F	1WJA4
90° Double Elbow			
3"	F Socket	-20° to 140° F	3GUP1
3" x 3" x 3"	F Socket	-20° to 140° F	3GUP1
90° Elbow			
1½"	F Socket	-20° to 140° F	1WHZ2
2"	F Socket	-20° to 140° F	1WHZ3
3"	F Socket	-20° to 140° F	1WHZ4
4"	F Socket	-20° to 140° F	1WHZ5
90° Long Sweep Elbow			
1½"	F Socket	-20° to 140° F	1WHX7
2"	F Socket	-20° to 140° F	1WHX8
3"	F Socket	-20° to 140° F	1WHX9
4"	F Socket	-20° to 140° F	1WHZ1
90° Long Sweep Elbow with Low Heel Inlet			
2" x 3" x 3"	F Socket	-20° to 140° F	1WJG9
3" x 3" x 1½"	F Socket	-20° to 140° F	3GUP6
90° Vent Elbow			
1½"	F Socket	-20° to 140° F	1WJH1
2"	F Socket	-20° to 140° F	1WJH2
3"	F Socket	-20° to 140° F	1WJH3
Combination Wye & 45° Elbow			
1½"	F Socket	-20° to 140° F	1WHW7
1½" x 1½" x 1½"	F Socket	-20° to 140° F	1WHW7
2"	F Socket	-20° to 140° F	1WHW9
3"	F Socket	-20° to 140° F	1WHW6
3" x 3" x 2"	F Socket	-20° to 140° F	1WHW8
4"	F Socket	-20° to 140° F	1WHX1
Coupling			
1½"	F Socket	-20° to 140° F	1WJD6
2"	F Socket	-20° to 140° F	1WJD7
3"	F Socket	-20° to 140° F	1WJD8
4"	F Socket	-20° to 140° F	1WJD9
Double Sanitary Reducing Tee			
4" x 4" x 2" x 2"	F Socket	-20° to 140° F	3JWE3

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
Double Wye			
1½"	F Socket	-20° to 140° F	5REA6
2"	F Socket	-20° to 140° F	3GUP5
3"	F Socket	-20° to 140° F	3GUR6
4"	F Socket	-20° to 140° F	5REA7
P-Trap with Solvent Weld Joint			
1½"	F Socket	-20° to 140° F	1CNT6
2"	F Socket	-20° to 140° F	3GUM3
3"	F Socket	-20° to 140° F	3GUP3
4"	F Socket	-20° to 140° F	3GUR7
P-Trap with Union			
1½"	F Socket	-20° to 140° F	1CNT7
1½" x 1¼"	F Socket	-20° to 140° F	3GUM5
2"	F Socket	-20° to 140° F	3GUM9
Reducing Coupling			
1½" x 2"	F Socket	-20° to 140° F	1WJE5
1½" x 3"	F Socket	-20° to 140° F	1WJE6
2" x 3"	F Socket	-20° to 140° F	1WJE7
2" x 4"	F Socket	-20° to 140° F	1WJE8
3" x 4"	F Socket	-20° to 140° F	1WJE9
Reducing Wye			
2" x 2" x 1½"	F Socket	-20° to 140° F	1WHV9
3" x 3" x 1½"	F Socket	-20° to 140° F	1WHW1
3" x 3" x 2"	F Socket	-20° to 140° F	1WHW2
4" x 4" x 2"	F Socket	-20° to 140° F	1WHW3
4" x 4" x 3"	F Socket	-20° to 140° F	1WHW4
Sanitary Reducing Tee			
2" x 2" x 1½"	F Socket	-20° to 140° F	1WHU1
3" x 3" x 2"	F Socket	-20° to 140° F	1WHU4
4" x 4" x 2"	F Socket	-20° to 140° F	1WHU6
4" x 4" x 3"	F Socket	-20° to 140° F	1WHU7
Sanitary Tee			
1½"	F Socket	-20° to 140° F	1WHT6
2"	F Socket	-20° to 140° F	1WHT7
3"	F Socket	-20° to 140° F	1WHT8
4"	F Socket	-20° to 140° F	1WHT9
Sanitary Tee with Lift Side Inlet			
3" x 3" x 3" x 2"	F Socket	-20° to 140° F	3GUR4
Sanitary Tee with Right Side Inlet			
3" x 3" x 3" x 2"	F Socket	-20° to 140° F	3GUR2
Socket Cap			
2"	F Socket	-40° to 180° F	1WJF3
3"	F Socket	-40° to 180° F	1WJF4
4"	F Socket	-40° to 180° F	1WJF5

Fitting Pipe Size	Pipe Fitting Connection Type	Temp. Range	Item No.
Tee Vent			
1½"	F Socket	-20° to 140° F	3JWE2
3"	F Socket	-20° to 140° F	3GUP9
Trap Adapter			
1½"	F Socket	-20° to 140° F	1CNV4
Two-Way Cleanout Tee			
4"	F Socket	-20° to 140° F	1WHR9
Wye			
1½"	F Socket	-20° to 140° F	1WHV5
2"	F Socket	-20° to 140° F	1WHV6
3"	F Socket	-20° to 140° F	1WHV7
4"	F Socket	-20° to 140° F	1WHV8
Socket x Spigot Pipe Fittings			
22-1/2° Street Elbow			
1½"	M Spigot x F Socket	-20° to 140° F	1WJF8
2"	M Spigot x F Socket	-20° to 140° F	1WJF9
3"	M Spigot x F Socket	-20° to 140° F	1CNU1
4"	M Spigot x F Socket	-20° to 140° F	3GUP7
45° Street Elbow			
1½"	M Spigot x F Socket	-20° to 140° F	1WJA5
2"	M Spigot x F Socket	-20° to 140° F	1WJA6
3"	M Spigot x F Socket	-20° to 140° F	1WJA7
4"	M Spigot x F Socket	-20° to 140° F	1WJA8
90° Long Sweep Street Elbow			
1½"	F Socket x M Spigot	-20° to 140° F	3GUM4
3"	F Socket x M Spigot	-20° to 140° F	3GUM6
90° Street Elbow			
1½"	M Spigot x F Socket	-20° to 140° F	1WHZ6
2"	M Spigot x F Socket	-20° to 140° F	1WHZ7
3"	M Spigot x F Socket	-20° to 140° F	1WHZ8
4"	M Spigot x F Socket	-20° to 140° F	1WHZ9
Trap Adapter			
1½" x 1½"	M Spigot x F Socket	-20° to 140° F	1WJN3

Polypropylene Pipe & Pipe Nipples, Schedule 40 & 80

ORION

- Low-pressure (100-299 psi)
- Medium-pressure (300-999 psi)

Polypropylene (PP) is a lightweight, thermoplastic polymer offering impact strength, surface hardness, and abrasion resistance. It resists a variety of acids, alkalis, and solvent solutions. PP pipe and nipples connect with pipe fittings to divert, divide, or return the flow of liquids and chemicals in fertilizer, herbicide, insecticide, wastewater, saltwater, and HVAC applications.

Schedule 40 Pipe has thicker walls than Schedule 10, but not as thick as Schedule 80 pipe.

Schedule 80 Pipe has thicker walls than Schedule 40, but not as thick as Schedule 160 pipe.

Schedule 80 Pipe Nipples have thicker walls than Schedule 40, but not as thick as Schedule 160. These connections use PTFE tape to secure seal.

SCHEDULE 40: For use with acids, air, bases, DWV, natural gas, non-potable water, oil, propane, solvents, and water.

Schedule 40 Low Pressure Pipe 3RCZ3

Nominal Pipe Size	Color	Brand	Overall Length 10-ft Item No.
Schedule 40 Unthreaded Low Pressure Pipe			
1½"	Blue	Orion	3RCZ3
2"	Blue	Orion	3RCZ4
3"	Blue	Orion	3RCZ5
4"	Blue	Orion	3RCZ6

SCHEDULE 80: For use with acids, air, bases, DWV, natural gas, non-potable water, oil, potable water, propane, solvents, steam, and water.

Schedule 80 Medium Pressure Pipe 3PFJ5

Nominal Pipe Size	Color	Brand	Overall Length 10-ft Item No.
Schedule 80 Unthreaded Medium Pressure Pipe			
½"	White	Orion	3PFJ5
¾"	White	Orion	3PFJ6
1"	White	Orion	3PFJ7
1½"	White	Orion	3PFJ8
2"	White	Orion	3PFJ9

Schedule 80 Medium Pressure Pipe Nipple 3DTJ5

Nominal Pipe Size	Connection Type	Color	Overall Length 3" Item No.	4" Item No.	5" Item No.	6" Item No.
Schedule 80 Threaded on Both Ends Medium Pressure Pipe Nipples						
½"	MNPT	Black	3DTJ5	—	—	—
¾"	MNPT	Black	—	3DTJ6	—	3DTJ7
1"	MNPT	Black	—	3DTJ8	—	3DTJ9
1¼"	MNPT	Black	—	3DTK1	—	3DTK2
1½"	MNPT	Black	3DTK3	3DTK4	3DTK5	3DTK6
2"	MNPT	Black	—	3DTK7	—	3DTK8
3"	MNPT	Black	—	3DTK9	—	3DTL1

Polypropylene Pressure Pipe Fittings & Flanges, Schedule 80

- Black color

Fittings and flanges connect with pipe to transport water and chemicals in fertilizer, herbicide, insecticide, wastewater, saltwater, and HVAC applications. Threaded connections use PTFE tape to secure seal.

Threaded x threaded—Threaded on all connection ends.

Blind flanges—Seal the end of piping systems or pressure vessel openings. These flanges, also called blank flanges, help test the flow of gas or liquid through a pipe. They typically have a raised, flat, or RTJ (ring-type joint) face.

Threaded flanges—Tapered threaded flanges, also called screwed flanges, are used with pipes that have external threads. These flanges have a raised face, flat face, or RTJ (ring-type joint) facing, and are often used for high-pressure requirements.

Threaded x Threaded Pipe Fittings, Temp. Range: -20° to 150° F

45° Street Elbow

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
45° Street Elbow	¾"	FNPT x MNPT	300 psi	1MKF5
	1"	FNPT x MNPT	300 psi	1MKF7
	1¼"	FNPT x MNPT	300 psi	1MKF9
	1½"	FNPT x MNPT	300 psi	1MKG2
	2"	FNPT x MNPT	225 psi	1MKG4
	3"	FNPT x MNPT	300 psi	5MLU5

90° Elbow

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
90° Elbow	⅜"	FNPT	300 psi	1MJY4
	½"	FNPT	300 psi	1MJY5
	¾"	FNPT	300 psi	1MJY6
	1"	FNPT	300 psi	1MJY7
	1¼"	FNPT	300 psi	1MJY8
	1½"	FNPT	300 psi	1MJY9
	2"	FNPT	300 psi	1MJZ1
	3"	FNPT	300 psi	1MJZ2

90° Street Elbow

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
90° Street Elbow	⅜"	FNPT x MNPT	300 psi	1MKF3
	½"	FNPT x MNPT	300 psi	1MKF4
	¾"	FNPT x MNPT	300 psi	1MKF6
	1"	FNPT x MNPT	300 psi	1MKF8
	1¼"	FNPT x MNPT	300 psi	1MKG1
	1½"	FNPT x MNPT	300 psi	1MKG3
	2"	FNPT x MNPT	300 psi	1MKG5
	3"	FNPT x MNPT	300 psi	1MKG6

Cap

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Cap	⅜"	FNPT	—	5MLU8
	½"	FNPT	—	1MJW2
	¾"	FNPT	—	1MJW3
	1"	FNPT	—	1MJW4
	1¼"	FNPT	—	1MJW5
	1½"	FNPT	—	1MJW6
	2"	FNPT	—	1MJW7
	3"	FNPT	—	5MLU9

Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Coupling	⅜"	FNPT	300 psi	1MJW8
	½"	FNPT	300 psi	1MJW9
	¾"	FNPT	150 psi	1MJX1
	1"	FNPT	300 psi	1MJX2
	1¼"	FNPT	150 psi	1MJX3
	1½"	FNPT	300 psi	1MJX4
	2"	FNPT	300 psi	1MJX5
	3"	FNPT	225 psi	1MJX6

Hex Head Plug

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Hex Head Plug	⅜"	MNPT	—	5MLU6
	½"	MNPT	—	1MKA1
	¾"	MNPT	—	1MKA2
	1"	MNPT	—	1MKA3
	1¼"	MNPT	—	1MKA4
	1½"	MNPT	—	1MKA5
	2"	MNPT	—	1MKA6
	3"	MNPT	—	1MKA7

Hex Nipple

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Hex Nipple	¼"	MNPT	300 psi	3DTJ4
	⅜"	MNPT	300 psi	1MJZ3
	½"	MNPT	300 psi	1MJZ4
	¾"	MNPT	300 psi	1MJZ5
	1"	MNPT	300 psi	1MJZ6
	1¼"	MNPT	300 psi	1MJZ7
	1½"	MNPT	300 psi	1MJZ8
	2"	MNPT	300 psi	1MJZ9
	3"	MNPT	300 psi	3DTL2

Reducing Bushing

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Reducing Bushing	⅜" x ¼"	FNPT x MNPT	300 psi	1MKA8
	½" x ¼"	FNPT x MNPT	300 psi	1MKA9
	½" x ⅜"	FNPT x MNPT	300 psi	1MKB1
	¾" x ¼"	FNPT x MNPT	300 psi	1MKB3
	¾" x ⅜"	FNPT x MNPT	300 psi	1MKB4
	¾" x ½"	FNPT x MNPT	300 psi	1MKB5
	1" x ¼"	FNPT x MNPT	300 psi	1MKB6
	1" x ½"	FNPT x MNPT	300 psi	1MKB7
	1" x ¾"	FNPT x MNPT	300 psi	1MKB8
	1¼" x ¾"	FNPT x MNPT	300 psi	1MKB9
	1¼" x 1"	FNPT x MNPT	300 psi	1MKC1
	1½" x ¾"	FNPT x MNPT	300 psi	1MKC2
	1½" x 1"	FNPT x MNPT	300 psi	1MKC3
	1½" x 1¼"	FNPT x MNPT	300 psi	1MKC4
	2" x ¾"	FNPT x MNPT	300 psi	1MKC5
	2" x 1"	FNPT x MNPT	300 psi	1MKC6
	2" x 1¼"	FNPT x MNPT	300 psi	1MKC7
	2" x 1½"	FNPT x MNPT	300 psi	1MKC8
	3" x 1½"	FNPT x MNPT	300 psi	1MKC9
	3" x 2"	FNPT x MNPT	300 psi	1MKD1
	4" x 3"	FNPT x MNPT	300 psi	1MKD2

Reducing Coupling

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Reducing Coupling	1" x ¾"	FNPT	300 psi	1MKD3
	1½" x 1"	FNPT	300 psi	1MKD4
	1½" x 1¼"	FNPT	300 psi	1MKD5
	2" x 1"	FNPT	300 psi	1MKD6
	2" x 1¼"	FNPT	300 psi	1MKD7
	2" x 1½"	FNPT	300 psi	1MKD8
	3" x 2"	FNPT	300 psi	1MKD9

Reducing Nipple

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Reducing Nipple	½" x ⅜"	MNPT	300 psi	1MKE1
	¾" x ½"	MNPT	300 psi	1MKE2
	1" x ½"	MNPT	300 psi	1MKE3
	1" x ¾"	MNPT	300 psi	1MKE4
	1¼" x ¾"	MNPT	300 psi	1MKE5
	1¼" x 1"	MNPT	150 psi	1MKE6
	1½" x 1"	MNPT	300 psi	1MKE7
	1½" x 1¼"	MNPT	150 psi	1MKE8
	2" x 1¼"	MNPT	300 psi	1MKE9
	2" x 1½"	MNPT	150 psi	1MKF1
	3" x 2"	MNPT	300 psi	1MKF2

Tee

Description	Fitting Pipe Size	Pipe Fitting Connection Type	Max. Operating Pressure	Item No.
Tee	⅜"	FNPT	300 psi	1MKG7
	½"	FNPT	300 psi	1MKG8
	¾"	FNPT	300 psi	1MKG9
	1"	FNPT	300 psi	1MKH1
	1¼"	FNPT	300 psi	1MKH2
	1½"	FNPT	300 psi	1MKH3
	2"	FNPT	300 psi	1MKH4
	3"	FNPT	225 psi	1MKH5

Fitting Pipe Size	Flange Outside Diameter	No. of Bolt Holes	Max. Operating Pressure	Item No.
Blind Flanges, Temp. Range: 0° to 150°F				
2"	6"	4	150 psi	3ELW4
3"	7½"	4	150 psi	3ELW5
Threaded Flanges, Temp. Range: -20° to 150°F				
1"	4³⁄₁₆"	4	150 psi	1MJV6
1½"	5"	4	150 psi	1MJV7
2"	6"	4	150 psi	1MJV8
3"	7½"	4	150 psi	1MJV9
4"	9"	8	150 psi	1MJW1

Bulkhead Tank Fittings

Temp. Ranges:

- 316 Stainless Steel and Banjo Polypropylene: -20° to 150°F
- CPVC: 40° to 190°F
- PVC: 40° to 140°F
- Polypropylene: 40° to 180°F

Use as an inlet or outlet for valves, pipes, tanks, and totes. Each fitting consists of a body, gasket, and locking nut with wrench flats. Feature left hand threads to ease installation and are available in short and long pattern designs. Max. pressure: 150 psi.

EPDM Gasket 3CEC4

FPM Gasket 3CDL3

Pipe Size	L	Required Hole Size	Max. Wall Thickness	Brand	316 Stainless Steel - FNPT x FNPT Item No.	CPVC - FNPT x FNPT Item No.	CPVC - FNPT x Socket Item No.	CPVC - Socket x Socket Item No.	PVC - FNPT x FNPT Item No.	PVC - FNPT x Socket Item No.	PVC - Socket x Socket Item No.	Polypropylene - FNPT x FNPT Item No.
EPDM Gasket Material												
½"	¼ in	1 ⅝ in	—	Banjo	—	—	—	—	—	—	—	1MKH6
½"	2 ¾ in	1 ⅜ in	1.08 in	Hayward	—	—	13L964	—	13L945	13L944	—	13L977
½"	3 ¾ in	1 ⅜ in	2.08 in	Hayward	—	3CDN8	3CDN7	3CDN9	3CEC4	—	3CEC6	3CDH7
¾"	1 ²⁷⁄₃₂ in	1 ⅝ in	—	Banjo	1MKH8	—	—	—	—	—	—	—
¾"	2 ⅞ in	1 ⅝ in	1.08 in	Hayward	—	—	13L965	—	13L947	13L946	—	13L978
¾"	2 ³⁄₁₆ in	1 ⅝ in	—	Banjo	—	—	—	—	—	—	—	1MKH7
¾"	3 ⁵⁷⁄₆₄ in	1 ⅝ in	2.08 in	Hayward	—	3CDP2	3CDP1	3CDP3	3CED1	3CEC8	3CED3	3CDH8
1"	2 ⅜ in	2 ¼ in	—	Banjo	1MKJ1	—	—	—	—	—	—	—
1"	2 ⅞ in	1 ⅞ in	1.08 in	Hayward	—	—	13L966	—	13L949	13L948	—	13L979
1"	2 ⁹⁄₁₆ in	2 ¼ in	—	Banjo	—	—	—	—	—	—	—	1MKH9
1"	3 ⁵⁷⁄₆₄ in	1 ⅞ in	2.08 in	Hayward	—	3CDP5	3CDP4	3CDP6	3CED7	3CED5	3CED9	3CDH9
1¼"	¾ in	2 ¼ in	—	Banjo	—	—	—	—	—	—	—	1MKJ2
1¼"	2 ⅜ in	2 ¼ in	—	Banjo	1MKJ3	—	—	—	—	—	—	—
1¼"	3 in	2 ⅝ in	1 in	Hayward	—	—	—	—	13L951	13L950	—	13L980
1¼"	4 in	2 ²¹⁄₃₂ in	2 in	Hayward	—	3CDP8	3CDP7	3CDP9	3CEE3	3CEE1	3CEE5	3CDJ1
1½"	1 in	3 in	—	Banjo	—	—	—	—	—	—	—	1MKJ4
1½"	2 ⅝ in	3 in	—	Banjo	1MKJ5	—	—	—	—	—	—	—
1½"	3 in	2 ⅝ in	1 in	Hayward	—	—	13L967	—	13L953	13L952	—	13L981
1½"	4 in	2 ²¹⁄₃₂ in	2 in	Hayward	—	3CDR2	3CDR1	3CDR3	3CEE9	3CEE7	3CEF2	3CDJ2
2"	1 in	3 in	—	Banjo	—	—	—	—	—	—	—	1MKJ6
2"	2 ⅝ in	3 in	—	Banjo	1MKJ7	—	—	—	—	—	—	—
2"	3 ¼ in	3 ¼ in	1 in	Hayward	—	—	13L968	—	13L955	13L954	—	13L982
2"	4 ¼ in	3 ¼ in	2 in	Hayward	—	3CDR5	3CDR4	3CDR6	3CEF6	3CEF4	3CEF8	3CDJ3
3"	1 ½ in	4 ½ in	—	Banjo	—	—	—	—	—	—	—	1MKJ8
3"	2 ²⁷⁄₃₂ in	4 ⅜ in	—	Banjo	1MKJ9	—	—	—	—	—	—	—
3"	3 ⅝ in	4 ½ in	1.02 in	Hayward	—	—	13L969	—	13L957	13L956	—	13L983
3"	4 ²¹⁄₃₂ in	4 ½ in	2.12 in	Hayward	—	3CDR8	3CDR7	3CDR9	3CEG3	3CEG1	3CEG5	3CDJ4
4"	5 ¾ in	5 ¾ in	2.45 in	Hayward	—	3CDT2	3CDT1	3CDT3	3CEG9	3CEG7	3CEH2	3CDJ5
6"	8 in	8 ¹⁄₁₆ in	3.25 in	Hayward	—	3CDT5	3CDT4	3CDT6	3CEH6	3CEH4	3CEH8	3CDJ6
FPM Gasket Material												
½"	2 ¾ in	1 ⅜ in	1.08 in	Hayward	—	—	13L958	—	13L931	13L930	—	13L970
½"	3 ¾ in	1 ⅜ in	2.08 in	Hayward	—	3CDJ8	3CDJ7	3CDJ9	2WYX5	2WYX2	2WYX9	3CDG7
¾"	2 ⅞ in	1 ⅝ in	1.08 in	Hayward	—	—	13L959	—	13L933	13L932	—	13L971
¾"	3 ⁵⁷⁄₆₄ in	1 ⅝ in	2.08 in	Hayward	—	3CDK2	3CDK1	3CDK3	2WYY8	2WYY7	2WYZ7	3CDG8
1"	2 ⅞ in	1 ⅞ in	1.08 in	Hayward	—	—	13L960	—	13L935	13L934	—	13L972
1"	3 ⁵⁷⁄₆₄ in	1 ⅞ in	2.08 in	Hayward	—	3CDK5	3CDK4	3CDK6	2WZA7	2WZA6	2WZA9	3CDG9
1¼"	3 in	2 ⅝ in	1 in	Hayward	—	—	—	—	13L937	13L936	—	13L973
1¼"	4 in	2 ²¹⁄₃₂ in	2 in	Hayward	—	3CDK8	3CDK7	3CDK9	2WZC5	2WZC4	2WZC9	3CDH1
1½"	3 in	2 ⅝ in	1 in	Hayward	—	—	13L961	—	13L939	13L938	—	13L974
1½"	4 in	2 ²¹⁄₃₂ in	2 in	Hayward	—	3CDL2	3CDL1	3CDL3	2WZF5	2WZD9	3CDF3	3CDH2
2"	3 ¼ in	3 ¼ in	1 in	Hayward	—	—	13L962	—	13L941	13L940	—	13L975
2"	4 ¼ in	3 ¼ in	2 in	Hayward	—	3CDL5	3CDL4	3CDL6	3CDF5	3CDF4	3CDF6	3CDH3
3"	3 ⅝ in	4 ½ in	1.02 in	Hayward	—	—	13L963	—	13L943	13L942	—	13L976
3"	4 ²¹⁄₃₂ in	4 ½ in	2.12 in	Hayward	—	3CDL8	3CDL7	3CDL9	3CDF8	3CDF7	3CDF9	3CDH4
4"	5 ¾ in	5 ¾ in	2.45 in	Hayward	—	3CDN2	3CDN1	3CDN3	3CDG2	3CDG1	3CDG3	3CDH5
6"	8 in	8 ¹⁄₁₆ in	3.25 in	Hayward	—	3CDN5	3CDN4	3CDN6	3CDG5	3CDG4	3CDG6	3CDH6

Fully Threaded
1CRK1

Threaded on Both Ends
1CRK5

Polyvinylidene Pipe Nipples, Schedule 80

- MNPT connection
- Medium-pressure (300-999 psi)
- Red color

Polyvinylidene fluoride, or PVDF, is a high-purity thermoplastic that resists chemicals, abrasions, salts, and heat, and is ultraviolet (UV) stable for outdoor use. Pipe nipples connect with pipe fittings and are frequently used in the semiconductor industry. Schedule 80 pipe nipples have thicker walls than Schedule 40, but not as thick as Schedule 160. Connections use PTFE tape to secure seal. Pipe nipples connect with fittings.

Nominal Pipe Size	Overall Length	Item No.
Schedule 80 Fully Threaded Medium Pressure Nipples		
½"	1 13/100"	1CRK1
¾"	1 19/50"	1CRK7
1"	1½"	1CRL4
1½"	1¾"	1CRN1
2"	2"	1CRP3

Nominal Pipe Size	Overall Length 2" Item No.	3" Item No.	4" Item No.	5" Item No.	6" Item No.
Schedule 80 Threaded on Both Ends Medium Pressure Nipples					
½"	—	1CRK6	1CRK5	1CRK4	—
¾"	1CRK8	1CRL3	—	1CRL1	1CRK9
1"	1CRL5	1CRL9	1CRL8	1CRL7	1CRL6
1½"	1CRN2	1CRN6	1CRN5	1CRN4	1CRN3
2"	—	1CRN7	1CRN8	1CRN9	1CRP1

Polyvinylidene Pressure Pipe Fittings & Flanges, Schedule 80

- Temp. range: 73° to 280°F
- Fittings max. operating pressure: 1,360 psi @ 73° F

Polyvinylidene, or PVDF, fittings and flanges connect with pipe to divert, divide, or return the flow of liquids and chemicals in chemical plant, pharmaceutical, medical, and food processing applications. PVDF resists salts, strong acids, dilute bases, and organic solvents, and is ultraviolet (UV) stable for outdoor use.

Threaded x threaded—Connections use PTFE tape to secure seal.

Socket x socket—Fittings connect to pipe. Also called slip or hub fittings, include socket ends on all fitting connection ends. The socket ends fit over the end of an PVDF pipe and require glue or adhesive to secure the connection.

Socket x threaded—Include one socket (hub or slip) fitting end and one threaded end, and require adhesive to secure connection. Threaded connections use PTFE tape to secure seal.

Spigot x socket—Include a spigot (also known as street end) that fits inside a socket (hub or slip) end that fits over a pipe. The spigot end is necessary when a fitting connects to another fitting (not directly to a pipe). These fittings require adhesive to secure the connection.

Blind flanges—Also called blank flanges, seal the end of piping systems or pressure vessel openings. They are used for testing the flow of gas or liquid through a pipe or vessel by blocking off a section of the pipe that is not used.

Butt weld flanges—Also called welded neck flanges, attach by welding the pipe to the neck of the flange, transferring stress from both the flange and the hub's base to the pipe. The inside diameter of the flange matches the inside diameter of the pipe. Butt weld flanges typically have a RTJ (ring-type joint) face.

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
Threaded x Threaded Pipe Fittings			
45° Elbow			
	½"	FNPT	1CRE2
	1"	FNPT	1CRE4
	1½"	FNPT	1CRE5
	2"	FNPT	1CRE6
90° Thread Elbow			
	½"	FNPT	1CRF3
	¾"	FNPT	1CRF4
	1"	FNPT	1CRF5
	1½"	FNPT	1CRF6
	2"	FNPT	1CRF7
Cap			
	½"	FNPT	1CRU9
	¾"	FNPT	1CRH2
	1"	FNPT	1CRV1
	1½"	FNPT	1CRH3
	2"	FNPT	1CRV2
Coupling			
	½"	FNPT	1CRC5
	¾"	FNPT	1CRC6
	1"	FNPT	1CRC7
	1½"	FNPT	1CRC8
	2"	FNPT	1CRC9
Hex Head Plug			
	½"	MNPT	1CRU6
	¾"	MNPT	1CRG9
	1"	MNPT	1CRU7
	1½"	MNPT	1CRH1
Reducing Bushing			
	¾" x ½"	FNPT x MNPT	1CRJ1
	1" x ½"	MNPT x FNPT	1CRJ2
	1" x ¾"	MNPT x FNPT	1CRJ3
	1½" x 1"	MNPT x FNPT	1CRJ4
	2" x 1"	MNPT x FNPT	1CRJ5
	2" x 1½"	MNPT x FNPT	1CRJ6

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
Tee			
	½"	FNPT	1CRG4
	¾"	FNPT	1CRG5
	1"	FNPT	1CRG6
	1½"	FNPT	1CRG7
	2"	FNPT	1CRG8
Union			
	½"	FNPT	1CRP9
	¾"	FNPT	1CRR1
	1"	FNPT	1CRR2
	1½"	FNPT	1CRR3
	2"	FNPT	1CRR4
Socket x Socket Pipe Fittings			
45° Elbow			
	½"	F Socket	1CRD6
	¾"	F Socket	1CRD7
	1"	F Socket	1CRD8
	1½"	F Socket	1CRD9
	2"	F Socket	1CRE1
90° Elbow			
	½"	F Socket	1CRE7
	¾"	F Socket	1CRE8
	1"	F Socket	1CRE9
	2"	F Socket	1CRF2
Reducing Socket Coupling			
	½"	F Socket	1CRB9
	¾"	F Socket	1CRC1
	1"	F Socket	1CRC2
	1½"	F Socket	1CRC3
	2"	F Socket	1CRC4
Socket Union			
	½"	F Socket	1CRP4
	¾"	F Socket	1CRP5
	1"	F Socket	1CRP6

	Fitting Pipe Size	Pipe Fitting Connection Type	Item No.
Tee			
	½"	F Socket	1CRF8
	¾"	F Socket	1CRF9
	1"	F Socket	1CRG1
	2"	F Socket	1CRG3
Socket x Threaded Pipe Fittings			
Adapter Coupling			
	½"	FNPT x F Socket	1CRD1
	1½"	FNPT x F Socket	1CRD4
	2"	F Socket x FNPT	1CRD5
Spigot x Socket Pipe Fittings			
Reducing Bushing			
	¾" x ½"	M Spigot x M Socket	1CRH4
	1" x ½"	F Socket x F Spigot	1CRH5
	1" x ¾"	F Socket x F Spigot	1CRH6
	1½" x 1"	M Spigot x F Socket	1CRH7
	2" x 1"	F Socket x F Spigot	1CRH8
	2" x 1½"	M Spigot x F Socket	1CRH9

Description	Flange Outside Diameter	No. of Bolt Holes	Max. Operating Pressure	Item No.
Blind Flanges				
	4¼"	4	—	1CRJ7
	5"	4	—	1CRJ8
	6"	4	—	1CRJ9
Butt Weld Flanges				
	3½"	4	1,360 psi @ 73 °F	1CRR5
	3⅞"	4	1,360 psi @ 73 °F	1CRR6
	4¼"	4	1,360 psi @ 73 °F	1CRR7
	5"	4	1,360 psi @ 73 °F	1CRR8
	6"	4	150 psi	1CRR9

	Connec. Type	Max. Pressure	Pipe Size ½ in Item No.	¾ in Item No.	1 in Item No.	1 ½ in Item No.	1 ¼ in Item No.	2 in Item No.	3 in Item No.
True-Bloc Ball Valves, CHEMTROL									
	FNPT x FNPT	150 psi CWP	1CRU1	1CRU2	1CRU3	1CRU4	—	1CRU5	—
	Socket x FNPT	150 psi CWP	38AP77	38AP78	38AP79	38AP81	38AP80	38AP82	—
	Socket x Socket	150 psi CWP	1CRT4	1CRT5	1CRT6	—	—	—	38AP83

Fitting Pipe Size	Fitting Connection Type	Max. Operating Pressure	Item No.
Dielectric Unions			
Lead-Free Brass x Brass			
½"	FNPT x F Solder	250 psi	**26X162**
¾"	FNPT x F Solder	250 psi	**26X164**
1"	FNPT x F Solder	250 psi	**26X175**
Lead-Free Brass x Malleable Iron			
1½"	FNPT x FNPT	250 psi	**26X173**
2"	FNPT x FNPT	250 psi	**26X163**
Lead-Free Brass x Steel			
½"	FNPT x FNPT	250 psi	**26X169**
¾"	FNPT x FNPT	250 psi	**26X170**
1"	FNPT x FFBP	250 psi	**26X171**
1¼"	FNPT x FNPT	250 psi	**25CC90**
Lead-Free Brass x Zinc-Plated Galvanized Steel			
½"	FNPT x F Solder	250 psi	**5DMG0**
½"	MNPT x M Solder	250 psi	**5DMG6**
¾"	FNPT x F Solder	250 psi	**5DMG1**
¾"	MNPT x M Solder	250 psi	**5DMG7**
¾"	FNPT x F Solder	250 psi	**5DMG8**
1"	FNPT x F Solder	250 psi	**5DMG2**
1¼"	FNPT x F Solder	250 psi	**5DMG3**
1½"	FNPT x F Solder	250 psi	**5DMG4**
2"	FNPT x F Solder	250 psi	**5DMG5**
Lead-Free Malleable Iron x Black Malleable Iron			
1½"	FNPT x FNPT	250 psi	**25CC85**
2"	FNPT x FNPT	250 psi	**25CC86**
Lead-Free Malleable Iron x Zinc-Plated Galvanized Malleable Iron			
1½"	FNPT x FNPT	250 psi	**25CC91**
2"	FNPT x FNPT	250 psi	**25CC92**
Lead-Free Steel x Black Steel			
½"	FNPT x FNPT	250 psi	**25CC82**
¾"	FNPT x FNPT	250 psi	**25CC83**
1"	FNPT x FNPT	250 psi	**25CC84**
1¼"	FNPT x FNPT	250 psi	**25CC93**
Lead-Free Steel x Zinc-Plated Galvanized Steel			
½"	FNPT x FNPT	250 psi	**5DMH3**
¾"	FNPT x FNPT	250 psi	**5DMH4**
1"	FNPT x FNPT	250 psi	**5DMH5**
1¼"	FNPT x FNPT	250 psi	**26X174**

Fitting Pipe Size	Flange Diameter	Fitting Connection Type	No. of Bolt Holes	Max. Operating Pressure	Item No.
Dielectric Flanges					
2"	5⅛"	FNPT x F Solder	4	250 psi	**5DMH6**
2½"	5⅞"	FNPT x M Solder	4	175 psi	**26X166**
2½"	7"	F Solder x M Solder	4	175 psi	**25CC87**
3"	6¾"	FNPT x M Solder	4	175 psi	**26X167**
3"	7½"	F Solder x M Solder	4	175 psi	**25CC88**
4"	9"	F Solder x M Solder	4	175 psi	**25CC89**

Union 5DMG0

Flange 26X167

WATTS REGULATOR

Lead-Free Dielectric Unions & Flanges

- Polysulfone insulator material

Pipe fittings for dissimilar materials allow incompatible materials to be joined together safely, and provide insulation between two different materials to avoid electrolysis that leads to corrosion and pipe failure.

Plastic to Metal Transition Fittings, Schedule 40, 80 & SDR-11

- Metal side NPT, except 5UED7 and 5UED8 are compression

Fittings minimize any stress problems found with metal-to-plastic piping system transitions when connecting heat exchangers, flow meters, and other metal-ended, male-threaded instruments. They are also used when expanding old metal systems with plastic, or installing new plastic systems where metal is required for part of the installation.

SCHEDULE 40: Schedule 40 CPVC has thicker walls than Schedule 10, but not as thick as Schedule 80.

Schedule 40 CPVC Insert Transition Fittings, Tan Color

Transition Adapter

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	C46400-Brass	Female	½"	Female	Socket	PW	**23NY84**
½"	C46400-Brass	Male	½"	Female	Socket	PW	**23NY81**
¾"	C46400-Brass	Female	¾"	Female	Socket	PW	**23NY85**
¾"	C46400-Brass	Male	¾"	Female	Socket	PW	**23NY82**
1"	C46400-Brass	Female	1"	Female	Socket	PW	**23NY86**
1"	C46400-Brass	Male	1"	Female	Socket	PW	**23NY83**

SCHEDULE 80: Schedule 80 CPVC has thicker walls than Schedule 40, but not as thick as Schedule 100.

Schedule 80 CPVC Insert Transition Fittings, Gray Color

90° Short Sweep Elbow

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Brass	Female	½"	Female	Socket	NPW	**3EKT9**

Tee

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Brass	Female	½"	Female	Socket	NPW	**3EKV5**

Transition Adapter

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	316-Stainless-Steel	Female	½"	Male	Spigot	PW, NPW	**3GXH7**
½"	360-Brass	Female	½"	Male	Spigot	PW, NPW	**3GXH1**
¾"	316-Stainless-Steel	Female	¾"	Male	Spigot	PW, NPW	**3GXH8**
¾"	360-Brass	Female	¾"	Male	Spigot	PW, NPW	**3GXH2**
¾"	Brass	Female	¾"	Female	Socket	NPW	**3EKU4**
1"	Brass	Female	1"	Female	Socket	NPW	**3EKU6**
1¼"	360-Brass	Female	1¼"	Male	Spigot	PW, NPW	**22JZ99**
1¼"	Brass	Female	1¼"	Female	Socket	NPW	**3EKU7**
1½"	Brass	Female	1½"	Female	Socket	NPW	**3EKU8**
2"	360-Brass	Female	2"	Male	Spigot	PW, NPW	**22KA01**

Transition Union

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
1"	Brass	Female	1"	Female	Socket	NPW	**3EKV1**
1½"	Brass	Female	1½"	Female	Socket	NPW	**3EKV3**
2"	Brass	Female	2"	Female	Socket	NPW	**3EKV4**

Schedule 80 PVC Insert Transition Fittings, Gray Color

90° Elbow

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Brass	Female	½"	Female	Socket	NPW	**3EKR1**

90° Reducing Elbow

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
¾"	Brass	Female	½"	Female	Socket	NPW	**3EKR3**

Tee

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
¾"	Brass	Female	¾"	Female	Socket	NPW	**3EKT7**

Transition Adapter

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	360-Brass	Female	½"	Male	Spigot	PW, NPW	**3GXF7**
½"	Brass	Female	½"	Female	Socket	NPW	**3EKR4**
¾"	316-Stainless-Steel	Female	¾"	Male	Spigot	PW, NPW	**3GXG5**
¾"	360-Brass	Female	¾"	Male	Spigot	PW, NPW	**3GXF8**
¾"	Brass	Female	¾"	Female	Socket	NPW	**3EKR5**
1"	316-Stainless-Steel	Female	1"	Male	Spigot	PW, NPW	**3GXG6**
1"	360-Brass	Female	1"	Male	Spigot	PW, NPW	**3GXF9**
1"	Brass	Female	1"	Female	Socket	NPW	**3EKR7**
1¼"	360-Brass	Female	1¼"	Male	Spigot	PW, NPW	**3GXG1**
1¼"	Brass	Female	1¼"	Female	Socket	NPW	**3EKR8**
1½"	316-Stainless-Steel	Female	1½"	Male	Spigot	PW, NPW	**22JZ18**
1½"	360-Brass	Female	1½"	Male	Spigot	PW, NPW	**3GXG2**
1½"	Brass	Female	1½"	Female	Socket	NPW	**3EKR9**
2"	360-Brass	Female	2"	Male	Spigot	PW, NPW	**3GXG3**
2"	Brass	Female	2"	Female	Socket	NPW	**3EKT1**

Transition Reducing Adapter

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
¾"	Brass	Female	½"	Female	Socket	NPW	**3EKR6**

Transition Union

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
1"	Brass	Female	1"	Female	Socket	NPW	**3EKT2**
1¼"	Brass	Female	1¼"	Female	Socket	NPW	**3EKT3**
1½"	Brass	Female	1½"	Female	Socket	NPW	**3EKT4**
2"	Brass	Female	2"	Female	Socket	NPW	**3EKT5**

SCHEDULE SDR 11 (Standard Dimension Ratio): SDR-11 means the outside diameter (D) is 11 times the thickness (S).

Schedule SDR 11 CPVC Insert Transition Fittings, Tan Color

90° Drop Ear Transition Elbow

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Stainless-Steel	Female	½"	Female	Socket	NPW	**5UED2**

Transition Adapter

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Stainless-Steel	Male	½"	Female	Socket	NPW	**5UEC9**
¾"	Stainless-Steel	Female	½"	Female	Socket	NPW	**5UEC7**
¾"	Stainless-Steel	Female	¾"	Female	Socket	NPW	**5UEC6**
¾"	Stainless-Steel	Male	¾"	Female	Socket	NPW	**5UED0**
1"	Stainless-Steel	Female	1"	Female	Socket	NPW	**5UEC8**
1"	Stainless-Steel	Male	1"	Female	Socket	NPW	**5UED1**

Transition Union

Metal Side Nominal Pipe Size	Fitting Metal Side Material	Metal Side Gender	Plastic Side Nominal Pipe Size	Plastic Side Gender	Plastic Side Type	Application*	Item No.
½"	Brass	Male	½"	Male	Spigot	NPW	**5UED5**
½"	Brass	Male	½"	Male	Spigot	NPW	**5UED7**
¾"	Brass	Male	¾"	Male	Spigot	NPW	**5UED6**
¾"	Brass	Male	¾"	Male	Spigot	NPW	**5UED8**

** PW = Potable water. NPW = Non-potable water. PW, NPW = Potable water, Non-potable water.*

45RF96

5E525

29FH94

6KWR9

29JA20

Solvent Cement Can Opener 415C76

Christy's E-Z WELD Oatey WELD-ON

Solvent Cements and Cleaners

Application temp.: 32° to 110°F, (pipe cleaners and purple primers are -10° to 110°F). All meet max. VOC limits SCAQMD method 1168-316A or BAAQMD method 40. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

WARNING: These cements and cleaners are extremely flammable; handle and use them in accordance with manufacturer's instructions.

ROOT-BAN DRAIN PIPE ADHESIVE

Bonds pipe connections with a strong, flexible, and leakproof seal that inhibits root intrusion. For use on HDPE, polyethylene, polypropylene, and styrene drain pipe up to 6" dia. Not for use on pressurized piping systems.

SOLVENT CEMENT, RED HOT BLUE GLUE

45RF96 to 45RF98 are a fast-setting, pipe cement for flexible and rigid PVC plastic pipe and fittings in potable water, conduit, drain duct, DWV, and sewer in both pressure or non-pressure applications. Suitable for use in dry, humid, or wet conditions.

738 HOT 'N FAST, 3NZW7 AND 3NZW8

For use in wet and dry conditions when quick pressurization is desired.

P-70 PRIMER, 6KWU4, 6KWU5, AND 6KWU6

Premium industrial-strength primer for use on Schedule 80 and larger pipe sizes. Excellent in cold weather applications.

Description	For Use With	Type	Color	8 oz Mfr. Model	8 oz Item No.	16 oz Mfr. Model	16 oz Item No.	32 oz Mfr. Model	32 oz Item No.
Christy's									
Root Ban Drain Pipe Adhesive	Non-Pressure Exterior Landscape Drainage Systems	Multipurpose	Green	—	—	34639	**45RF94**	34640	**45RF95**
Solvent Cement, Red Hot	PVC Pipe and Fittings	Medium Bodied	Blue	RH.RHBV.HP36	**45RF96**	RH.RHBV.PT.10	**45RF97**	RH.RHBV.QT6	**45RF98**
Vinyl/PVC Adhesive, Red Hot	Bonds PVC Materials	Multipurpose	Clear	34664	**45RG01**	—	—	—	—
Ez Weld									
ABS Cement	ABS Pipe and Fittings Up To 6 in	—	Black	21002	**5E537**	EZ21003	**5E538**	21004	**3NZD7**
CPVC Cement	CPVC Fittings, CPVC Pipe	—	Orange	20702	**3NZD9**	20703	**3NZE1**	20704	**3NZE2**
Flowguard Gold	CPVC Pipe and Fittings Up To 2 in	—	Yellow	22702	**1RG63**	22703	**1RG64**	22704	**3NZD8**
Heavy-Duty PVC Cement	PVC Pipes and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 6 in	Medium Bodied	Gray	—	—	20603	**5E529**	—	—
Heavy-Duty PVC Cement	PVC Pipes and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 8 in	Medium Bodied	Gray	20602	**5E528**	—	—	20604	**3NZD5**
Multipurpose Cement	ABS, CPVC, PVC, Schedule 40 and 80 Pipes and Fittings Up To 6 in	—	Amber	—	—	20803	**5E533**	—	—
Multipurpose Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings, Schedule 40 and 80 Pipes and Fittings Up To 6 in	—	Amber	20802	**5E532**	—	—	20804	**5E534**
Pipe Cleaner	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	—	Clear	21402	**5E523**	21403	**5E524**	21404	**3NZD4**
Primer	Fittings, Pipes	—	Clear	21102	**3NZE3**	21103	**3NZE4**	21104	**3NZE5**
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	—	Purple	21202	**5E520**	21203	**5E521**	21204	**5E522**
PVC Cement	Schedule 40 PVC Pipe and Fittings Up To 4 in	—	Clear	20502	**5E525**	—	—	30504	**5E527**
PVC Wet/Dry Cement	PVC Pipes and Fittings up to 6 in for Schedule 40 and up to 4 in for Schedule 80	—	Blue	22202	**5E530**	22203	**5E531**	22204	**3NZD6**
PVC Wet/Dry Cement	Schedule 40 PVC Pipe and Fittings Up To 4 in	—	Clear	—	—	20503	**5E526**	—	—
Oatey									
Pipe Cleaner	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, PVC	Clear	30782	**29FH96**	30795	**29FJ02**	—	—
Pipe Cleaner	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Clear	—	—	—	—	30774	**41GP14**
Primer	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	CPVC, PVC	Purple	—	—	30757	**29FJ01**	—	—
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Clear	—	—	—	—	30753	**41GP11**
Primer	CPVC Fittings, CPVC Pipe, PVC Fittings, PVC Pipe	PVC and CPVC	Purple	—	—	30770	**41GP12**	30771	**41GP13**
Primer	CPVC Pipe and Fittings, PVC Pipe and Fittings	CPVC, PVC	Purple	30756	**29FH95**	—	—	—	—
Solvent Cement	ABS Fittings, ABS Pipe	ABS, Medium Bodied	Black	30889	**29FH94**	30892	**49K211**	—	—
Solvent Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, Medium Bodied, PVC	Clear	—	—	30834	**49K209**	—	—
Solvent Cement	ABS Pipe and Fittings, CPVC Pipe and Fittings, PVC Pipe and Fittings	ABS, CPVC, Medium Bodied, PVC	Milky-Clear	30821	**29FH91**	—	—	—	—
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Extra Heavy Bodied, Hot	Orange	—	—	32167	**20CM26**	—	—
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Medium Bodied	Orange	31129	**29FH93**	31130	**49K213**	31131	**41GP21**
Solvent Cement	CPVC Fittings, CPVC Pipe	CPVC, Low VOC, Medium Bodied	Yellow	31911	**29FH92**	31912	**20CM23**	—	—
Solvent Cement	PVC Pipe and Fittings	Hot, Medium Bodied, PVC	Blue	32161	**20CM24**	32162	**20CM25**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied, PVC	Blue	30891	**29FH90**	30893	**49K212**	—	—
Solvent Cement	PVC Pipe and Fittings	Heavy Bodied, PVC	Clear	30863	**29FH97**	30876	**29FJ04**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied, PVC	Clear	31018	**29FH89**	31019	**29FH99**	—	—
Solvent Cement	PVC Pipe and Fittings	Medium Bodied All-Weather, PVC	Clear	—	—	31132	**29FJ03**	—	—
Solvent Cement	PVC Pipe and Fittings	PVC, Regular Bodied	Clear	31013	**29FH88**	31014	**29FH98**	—	—
Solvent Cement	PVC Pipe and Fittings	Heavy Bodied, PVC	Gray	31094	**41GP15**	—	—	—	—
Weld-On									
700 PVC	PVC Pipe	Regular Bodied	Clear	13970	**6KWR3**	13969	**6KWR4**	13968	**6KWR5**
705 PVC	PVC Pipe	Medium Bodied	Clear	13973	**6KWT8**	13972	**6KWT9**	13971	**6KWU0**
711 PVC	PVC Pipe	Heavy Bodied	Gray	13976	**6KWU1**	13975	**6KWU2**	13974	**6KWU3**
714 CPVC	CPVC Pipe	CPVC	Orange	13979	**6KWT5**	13978	**6KWT6**	13977	**6KWT7**
724 CPVC	Joining CPVC and PVC Industrial Pipes Carrying Corrosive Chemicals	CPVC	Gray	—	—	14184	**29JA20**	—	—
738 Hot 'N Fast	PVC Pipe and Fittings	PVC	Blue	13987	**3NZW7**	13986	**3NZW8**	—	—
790 Multipurpose Cement	PVC Pipe	Multi Purpose	Clear	13990	**6KWR6**	13989	**6KWR7**	13988	**6KWR8**
P-64 Primer/Conditioner	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13999	**6KWX1**	13998	**6KWX2**	13997	**6KWX3**
P-68 Primer	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13993	**6KWR9**	13992	**6KWT0**	13991	**6KWT1**
P-70 Primer	CPVC Pipe, PVC Pipe	PVC and CPVC	Purple	13996	**6KWU4**	13995	**6KWU5**	13994	**6KWU6**

For Use With	Type	Size	Material of Construc.	Brand	Item No.
Solvent Cement Can Opener					
Solvent Cements and Primer Cans	Twist	7½"	Stainless Steel	Weld-On	**415C76**

41GP16

20CM12

4UK03

4X222

4UJ90

20CM06

Sealant, Pipe Dope, and Plumber's Putty

Note: POLY-TEMP and SLICKON are registered trademarks of Anti-Seize Technology.

Gasket Sealant—Forms a flexible seal which will not harden, crack, crumble, or shrink.

Leak Detector—For use on pressurized plumbing and gas lines.

Megaloc Thread Sealant—Will not harden, crack or become brittle; requires no cure time. Max. pressure: 12,000 psi (liquid).

AST-PPD Plumber's Pipe Dope—Nontoxic, no lead or silicone. Use with all metal pipe and valves. Max. pressure: 1000 psi (gas); 2000 psi (liquid).

Pipe Thread Sealant (Hercules)—Won't harden or separate. Nonflammable and requires no cure time. Max pressure: 12,000 psi (liquid).

SLICKON GTS GOLD Sealant w/ PTFE—Nontoxic, noncuring, solvent-free paste is suitable for use with potable water. FBC System compatible.

SOF-SET Pipe Sealant—Use on metal, PVC, and ABS pipe for water, steam, LP and natural gas, refrigerants, ammonia, fuel oils, and hydraulic oil. Max. pressure: 10,000 psi (liquid); 2600 psi (gas).

TFE Pipe Thread Sealant w/ PTFE—Meets FDA requirements. NSF registered and UL Classified for fire protection sprinkler systems. Max. pressure: 10,000 psi (liquid); 2000 psi (gas).

TUF-SET Pipe Thread Sealant—Sets firm; resists vibration, shock, and thermal expansion; allows disassembly. Nontoxic and corrosion-resistant. Use with potable water, all common refrigerants, natural gas, propane, and gasoline. Max. pressure: 10,000 psi (liquid); 2600 psi (gas).

AST-PUT Plumber's Putty—Mold and mildew resistant. Meets Fed. Spec. TT-P-1536A.

Pro Dope Thread Sealant—For use with air, brine, diluted acids, gas, hydronic heating, natural gas, steam, and sprinkler systems. Max pressure: 250 psi (liquid).

Description	Size	Brand	Item No.
Gasket Sealant			
All Purpose	4 oz, Brush Top Can	Hercules	20CM10
All Purpose, High Performance	4 oz, Brush Top Can	Hercules	20CM13
Leak Detector			
Leak Detector, Blue	32 oz, Spray Bottle	Hercules	41GP16
Megaloc Thread Sealant			
Multi-Purpose Sealant	8 oz, Brush Top Can	Hercules	20CM14
	16 oz, Brush Top Can	Hercules	20CM15
Pipe Thread Sealant			
AST-PPD Plumber's Pipe Dope	8 oz, Brush Top Can	Anti-Seize Technology	4UJ94
	16 oz, Brush Top Can	Anti-Seize Technology	4UJ95
Pipe Thread Sealant	4 oz, Brush Top Can	Hercules	20CM11
	8 oz, Brush Top Can	Hercules	20CM12
SLICKON GTS GOLD w/PTFE	3 oz, Tube	Anti-Seize Technology	3PDL6
	8 oz, Brush Top Can	Anti-Seize Technology	2TE50
	16 oz, Brush Top Can	Anti-Seize Technology	2TE51
SOF-SET Pipe Sealant	8 oz, Brush Top Can	Anti-Seize Technology	4UK03
	16 oz, Brush Top Can	Anti-Seize Technology	4UK04
TFE Pipe Thread Sealant w/PTFE	3 oz, Tube	Anti-Seize Technology	5X998
	8 oz, Brush Top Can	Anti-Seize Technology	4X222
	16 oz, Brush Top Can	Anti-Seize Technology	4UJ90
TUF-SET Pipe Thread Sealant	3 oz, Tube	Anti-Seize Technology	2KFZ6
	8 oz, Brush Top Can	Anti-Seize Technology	2KFZ7
	16 oz, Brush Top Can	Anti-Seize Technology	2KFZ8
Plumbers Putty			
AST-PUT Plumber's Putty	14 oz, Tub	Anti-Seize Technology	4UJ96
TTP-1536A Plumbers Putty	14 oz, Tub	Oatey	49K215
Pro Dope Thread Sealant			
Pro Dope Thread Sealant	5 gal, Pail	Hercules	20CM09
	6 lb, Pail	Hercules	20CM08
	8 oz, Brush Top Can	Hercules	20CM06
	16 oz, Brush Top Can	Hercules	20CM07

3AB55

34D503

2TE44

4UK05

2TE52

4X543

Pipe Thread Sealant Tapes and Valve Stem Packing

For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Low-Density Thread Sealant Tape—Virgin PTFE, compatible with most pipe materials, and forms a permanent seal for the life of the connection.

POLY-TEMP Antiseize Thread Seal Tape—Eases assembly/disassembly of threaded fasteners, connections, and helps prevent seizing and galling. 2TE46 and 2TE47 are non-toxic and for use in food handling applications.

POLY-TEMP Gas Line Sealant Tape—Extra-dense thread sealant for use on most metal or plastic pipe connections.

POLY-TEMP Thread Sealant Tape—2TE52 is for use in sealing and preventing seizing in stainless steel and stainless steel alloy pipe threads.

POLY-TEMP VSP Valve Stem Packing—Inert to most chemicals and withstands vibration and severe corrosion. Can conform to worn stuffing boxes and valve stems. Max. pressure: 500 psi.

Material	W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
Low-Density Thread Sealant Tape							
-400° to 550°F							
PTFE	½ in	260 in	0-300	0-10,000	White	0.35 to 0.5sg	3PDL5
	½ in	520 in	0-300	0-10,000	White	0.35 to 0.5sg	3AB55
	¾ in	520 in	0-300	0-10,000	White	0.35 to 0.5sg	3AB56
	1 in	520 in	0-100	0-10,000	White	0.35 to 0.5sg	34D503
POLY-TEMP Antiseize Thread Seal Tape							
-450° to 550°F							
Nickel Filled with PTFE	½ in	600 in	0-300	0-10,000	Nickel	1.2 to 1.5sg	2TE44
	¾ in	600 in	0-300	0-10,000	Nickel	1.2 to 1.5sg	2TE45
-400° to 550°F							
Copper Filled with PTFE	½ in	600 in	0-300	0-10,000	Copper	1.2 to 1.5sg	2TE42
Ceramic Filled with PTFE	½ in	600 in	0-300	0-10,000	Cream	1.2 to 1.5sg	2TE46
Copper Filled with PTFE	¾ in	600 in	0-300	0-10,000	Copper	1.2 to 1.5sg	2TE43
Ceramic Filled with PTFE	¾ in	600 in	0-300	0-10,000	Cream	1.2 to 1.5sg	2TE47
POLY-TEMP Gas Line Sealant Tape							
PTFE	½ in	260 in	0-2250	0-10,000	Yellow	1.2 to 1.5sg	4UK05
	½ in	520 in	0-2250	0-10,000	Yellow	1.2 to 1.5sg	4UK06
	¾ in	520 in	0-2250	0-10,000	Yellow	1.2 to 1.5sg	4UK07
POLY-TEMP Thread Sealant Tape							
Nickel Filled with PTFE	½ in	260 in	0-300	0-10,000	Nickel	1.2 to 1.5sg	2TE52
PTFE	½ in	260 in	0-2000	0-10,000	Pink	1.2 to 1.5sg	2TE53
	½ in	260 in	0-2000	0-10,000	White	0.7 to 0.8sg	4X227
	½ in	260 in	0-2000	0-10,000	White	1.2 to 1.5sg	3PDK9
	½ in	520 in	0-2000	0-10,000	White	0.7 to 0.8sg	4X543
	½ in	520 in	0-2000	0-10,000	White	0.9 to 1.1sg	3PDL1
	½ in	520 in	0-2000	0-10,000	White	1.2 to 1.5sg	3PDL2
	¾ in	520 in	0-2000	0-10,000	White	0.7 to 0.8sg	5X584
	¾ in	520 in	0-2000	0-10,000	White	0.9 to 1.1sg	3PDL3
	¾ in	520 in	0-2000	0-10,000	White	1.2 to 1.5sg	3PDL4
	1 in	520 in	0-2000	0-10,000	White	1.2 to 1.5sg	34D502

Body Material	Size	Temp. Range	Item No.
POLY-TEMP VSP Valve Stem Packing			
PTFE	3/32 x 20 ft	-400° to 500°F	4X773
PTFE	5/32 x 120 in	-400° to 500°F	5X585
PTFE	7/32 x 84 in	-400° to 500°F	5X720

21TF50

21TF20

Joint Sealant, Thread Sealant, and Valve Stem Packing Tapes

- PTFE material

For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Joint Sealant Tape—General purpose economy grade sealant.

Thread Sealant Tape—21TF29 and 21TF30 are general purpose, economy grade sealant tape. 21TF32, 21TF40, and 21TF41 are for use with stainless steel threads.

W	L	Gas Pressure Range (psi)	Liquid Pressure Range (psi)	Color	Density	Item No.
Joint Sealant Tape						
-450° to 600°F						
⅜ in	300 in	0-3000	0-3000	White	—	**21TF48**
-400° to 600°F						
¼ in	600 in	0-3000	0-3000	White	—	**21TF47**
½ in	180 in	0-3000	0-3000	White	—	**21TF49**
¾ in	180 in	0-3000	0-3000	White	—	**21TF50**
Thread Sealant Tape						
-400° to 500°F						
½ in	600 in	0-2250	0-2250	Copper	0.9 to 1.1sg	**21TF38**
	600 in	0-2250	0-2250	Nickel	0.9 to 1.1sg	**21TF40**
	600 in	0-2250	0-2250	Yellow	1.2 to 1.5sg	**21TF42**
¾ in	600 in	0-2250	0-2250	Nickel	0.9 to 1.1sg	**21TF41**
-400° to 550°F						
¼ in	520 in	0-100	0-10,000	White	0.7 to 0.8sg	**21TF28**
½ in	260 in	0-300	0-10,000	White	0.35 to 0.5sg	**21TF19**
	260 in	0-300	0-300	Yellow	1.2 to 1.5sg	**21TF22**
	260 in	0-2000	0-10,000	Gray	0.9 to 1.1sg	**21TF32**
	260 in	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF27**
	260 in	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF34**
	520 in	0-300	0-10,000	White	0.35 to 0.5sg	**21TF20**
	520 in	0-2000	0-10,000	White	0.9 to 1.1sg	**21TF25**
	520 in	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF29**
	520 in	0-2000	0-10,000	Yellow	1.2 to 1.5sg	**21TF23**
¾ in	520 in	0-300	0-300	White	0.35 to 0.5sg	**21TF21**
	520 in	0-2000	0-10,000	White	0.9 to 1.1sg	**21TF26**
	520 in	0-2000	0-10,000	White	0.7 to 0.8sg	**21TF30**
	520 in	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF36**
1 ½ in	520 in	0-2250	0-10,000	White	1.2 to 1.5sg	**21TF37**
Valve Packing Tape						
-400° to 500°F						
3/32 in	240 in	0-500	0-2250	White	—	**21TF44**
5/32 in	120 in	0-500	0-2250	White	—	**21TF45**

Smith-Blair
A SENSUS COMPANY

Double-Bale and Single-Strap Saddle Clamps

Single-Strap FNPT Outlet 3ETZ3

- Max. pressure: 300 psi
- Max. temp.: 180°F

Use to tap into and tee off of existing pipes; fully entrapped gaskets hold tee tightly in place in the tapped cavity. Wide band spread prevents pipe damage when tightening. Ductile iron body with stainless steel straps. Meet ASTM-A536 and AWWA C800; NSF61 Certified.

Double-Bale FNPT Outlet 3EUA9

Pipe Size	Outlet Pipe Size	Double-Bale FNPT Outlet, Buna N Gasket Item No.	Single-Strap FNPT Outlet, Buna N Gasket Item No.	Single-Strap CC Outlet, Nitrile Gasket Item No.
1"	¾"	—	**3ETY8**	**5LGL8**
1½"	¾"	**3EUA6**	**3ETY9**	**5LGL9**
	1"	**3EUA7**	**3ETZ1**	**5LGN0**
2"	¾"	**3EUA8**	**3ETZ2**	—
	1"	**3EUA9**	**3ETZ3**	**5LGN2**
	1¼"	**3EUC1**	**3ETZ4**	**5LGN3**
	1½"	**3EUC2**	—	—
3"	¾"	**3EUC3**	**3ETZ6**	**5LGN5**
	1"	**3EUC4**	**3ETZ7**	**5LGN6**
	1¼"	**3EUC5**	**3ETZ8**	**5LGN7**
	1½"	**3EUC6**	**3ETZ9**	—
4"	¾"	**3EUC7**	**3EUA1**	**5LGN9**
	1"	**3EUC8**	**3EUA2**	**5LGP0**
	1¼"	**3EUC9**	**3EUA3**	**5LGP1**
	1½"	**3EUD1**	**3EUA4**	**5LGP2**
	2"	**3EUD2**	**3EUA5**	—
	2½"	**3EUD3**	—	—

Pipe Size	Outlet Pipe Size	Single-Strap CC Outlet, Nitrile Gasket Item No.	Single-Strap IP Outlet, Nitrile Gasket Item No.
6"	¾"	**5LGP4**	**5LGP3**
	1"	**5LGP6**	**5LGP5**
	1½"	**5LGR0**	**5LGP9**
	2"	—	**5LGR1**
8"	¾"	**5LGR3**	**5LGR2**
	1"	**5LGR5**	**5LGR4**
	1¼"	**5LGR7**	**5LGR6**
	1½"	**5LGR9**	**5LGR8**
	2"	—	**5LGT0**
10"	¾"	**5LGT2**	**5LGT1**
	1"	**5LGT4**	**5LGT3**
	1½"	**5LGT8**	**5LGT7**
	2"	—	**5LGT9**
12"	¾"	**5LGU1**	**5LGU0**
	1"	**5LGU3**	**5LGU2**
	1½"	**5LGU7**	**5LGU6**
	2"	—	**5LGU8**

Plastic & Rubber Flexible Pipe Fittings

- Clamp material: 300 series stainless steel
- Max. operating pressure: 4.3 psi

Fittings connect pieces of pipe together, with or without a change in direction. They connect same or different sizes of pipes using worm clamps (use cordless No Hub Coupling Drill Driver 5HXN2, sold on page 682), and may divert, divide, or return the flow of air, water, gasoline, and chemicals in the pipe.

Shielded Couplings—Create rigid pipe joints that resist shear forces and a stainless steel band resist degradation from ozone, sunlight, oxidation, sand, snow, and dust. Shield material is made of 300 series stainless steel.

Tap Saddle PVC—Fittings are shaped like a half moon to sit on top or around a sewer pipe for faster, less costly connections.

Specific Fitting Shape	For Nominal Pipe Size	Inside Diameter	Overall Length	Pipe Fitting Material	Number of Clamps included	Item No.
PVC Flexible Pipe Fittings						
Flexible 90° Elbow	1½"	1⅞" x 1⅞"	6 9/16 in	PVC	2	**2ZJ97**
	2"	2¼" x 2¼"	7 5/16 in	PVC	2	**2ZJ98**
	3"	3⅜" x 3 7/16"	11 ¾ in	PVC	2	**2ZJ99**
	4"	4 7/16" x 4½"	14 9/16 in	PVC	2	**2ZU10**
Flexible Coupling	¾"	1" x 12½"	2 ⅜ in	PVC	2	**2ZJ91**
	1"	1¼" x 10 9/16"	2 ⅜ in	PVC	2	**2ZJ92**
	1¼"	1 7/16" x 1 7/16"	2 5/16 in	PVC	2	**2ZU14**
	1¼"	1⅝" x 1⅝"	3 ½ in	PVC	2	**4P003**
	1¼",-1-1/2"	1 15/16" x 1⅝"	3 ½ in	PVC	2	**4P004**
	1½"	1 15/16" x 1⅞"	3 ½ in	PVC	2	**4P005**
	1½"	2¼" x 2"	3 ⅞ in	PVC	2	**3HDC7**
	2"	2 11/16" x 2⅜"	3 15/16 in	PVC	2	**3HDC8**
	2",-1-1/2"	2⅜" x 1 13/16"	3 ½ in	PVC	2	**4P006**
	2"	2⅜" x 2⅜"	3 ½ in	PVC	2	**4P007**
	3"	3 7/16" x 3⅜"	4 in	PVC	2	**4P009**
	3"	3½" x 3½"	3 15/16 in	PVC	2	**2ZJ89**
	3"	3 15/16" x 2 11/16"	4 in	PVC	2	**3HDC9**
	4"	4 15/16" x 4 9/16"	4 in	PVC	2	**3HDD1**
	5"	5½" x 4 15/16"	4 in	PVC	2	**3HCZ3**
	6"	6 9/16" x 6 5/16"	5 ¾ in	PVC	2	**3HCZ8**
	8"	8⅝" x 6⅝"	6 in	PVC	2	**3HDA2**
	10"	10 9/16" x 10"	6 in	PVC	2	**3HDA4**
	12"	12½" x 1¼"	6 in	PVC	2	**3HDA6**
Flexible Drain Trap	1 15/16",-1-7/16"	1 7/16" x 1 15/16"	2 ¼ in	PVC	2	**2ZU12**
Flexible P-Trap	1¼"	1 3/16" x 1 7/16"	—	PVC	2	**2ZU11**
Flexible Reducing Coupling	1¼",-2"	1 7/16" x 2⅜"	2 3/16 in	PVC	2	**2ZU13**
	1½",-3"	3⅜" x 1⅞"	4 in	PVC	2	**3HCY6**
	1½",-4"	4⅜" x 1⅞"	4 in	PVC	2	**3HCY7**
	2",-6"	6 9/16" x 2⅜"	5 ¾ in	PVC	2	**3HCZ4**
	2 11/16",-2-3/8"	3⅞" x 2⅜"	3 ⅞ in	PVC	2	**3HDC4**
	3"	3 15/16" x 3 7/16"	4 in	PVC	2	**3HDC5**
	3",-2"	3½" x 2⅜"	4 in	PVC	2	**4P008**
	3",-4"	4 7/16" x 3½"	4 in	PVC	2	**4P010**
	4"	4⅜" x 4¾"	3 15/16 in	PVC	2	**2ZJ90**
	4"	4 15/16" x 4½"	4 in	PVC	2	**3HDC6**
	4",-2"	4⅜" x 2⅜"	4 in	PVC	2	**3HCY8**
	4",-5"	5 9/16" x 4¼"	4 in	PVC	2	**3HCZ2**
	4",-6"	6 9/16" x 4 7/16"	5 ¾ in	PVC	2	**3HCZ6**
	6"	6 13/16" x 6½"	5 ⅞ in	PVC	2	**3HDD2**
	6",-3"	6 9/16" x 3⅜"	5 ¾ in	PVC	2	**3HCZ5**
	6",-8"	8½" x 6⅜"	6 in	PVC	2	**3HDA1**
	8",-4"	8½" x 4⅜"	6 in	PVC	2	**3HCZ9**
	8",-10"	10¼" x 8⅜"	6 in	PVC	2	**3HDA3**
Flexible Tee	1½"	1⅞" x 1⅞" x 1⅞"	5 13/16 in	PVC	3	**2ZJ93**
	2"	2¼" x 2¼" x 2¼"	7 ⅛ in	PVC	3	**2ZJ94**
	3"	3 7/16" x 3 7/16" x 3 7/16"	10 5/16 in	PVC	3	**2ZJ95**
	4"	4 7/16" x 4 7/16" x 4 7/16"	12 ⅞ in	PVC	3	**2ZJ96**
Round End Cap	1½"	—	1 ⅛ in	PVC	1	**2ZU15**
	2"	—	1 ⅛ in	PVC	1	**2ZU16**
	3"	—	1 ⅛ in	PVC	1	**2ZU17**
	4"	—	1 ⅛ in	PVC	1	**2ZU18**
	5"	—	2 in	PVC	1	**3HDA9**
	6"	—	2 in	PVC	1	**3HDC1**
Shielded Transition Couplings						
No Hub Coupling	1½"	1⅞" x 1⅝"	2 ⅛ in	Neoprene	2	**2ZU19**
	2"	2⅜" x 2 5/16"	2 ⅛ in	Neoprene	2	**2ZU20**
	3"	3⅜" x 3 15/16"	2 ⅛ in	Neoprene	2	**2ZU21**
	4"	4 7/16" x 4 7/16"	2 ⅛ in	Neoprene	2	**2ZU22**
	6"	6 5/16" x 5½"	3 in	Neoprene	2	**3HDC2**
Shielded Transition Coupling	1¼",-1-1/2"	1 15/16" x 1⅛"	2 ⅛ in	Neoprene	2	**3HDE1**
	1½"	1 11/16" x 2"	2 ⅛ in	Neoprene	2	**2ZJ87**
	1½"	2" x 1 15/16" x 3 7/16"	2 ⅛ in	Neoprene	2	**2ZJ83**
	1½",-2"	2⅜" x 1⅝"	2 ⅛ in	Neoprene	2	**3HDE2**
	2",-1-1/2"	1 7/16" x 1 15/16"	2 ⅛ in	Neoprene	2	**3HDD4**
	2"	2⅛" x 2⅜"	2 ⅛ in	Neoprene	2	**2ZJ88**
	2"	2 5/16" x 2¼"	2 ⅛ in	Neoprene	2	**2ZJ84**
	3"	3⅜" x 3 1/16"	2 ⅛ in	Neoprene	2	**3HDE3**
	3"	3⅜" x 3 9/16"	2 ⅛ in	Neoprene	2	**2ZJ85**
	4"	4⅜" x 4⅛"	2 ⅛ in	Neoprene	2	**3HDE5**
	4"	4⅜" x 4½"	2 ⅛ in	Neoprene	2	**2ZJ86**
	5",-3"	5½" x 3½"	4 in	PVC	2	**3HCZ1**
	6"	6 9/16" x 6¼"	3 in	Neoprene	2	**3HDD7**
	8"	8½" x 8 5/16"	3 13/16 in	Neoprene	2	**3HDD8**
Tap Saddle PVC Flexible Pipe Fittings						
Flexible Tap Saddle Wye	4"	4½" x 4½"	—	PVC	3	**3HDF3**
	6"	6⅝" x 6⅝"	—	PVC	3	**3HDF4**

Pneumatic Test Plugs

TEST-TITE IPS CORPORATION CHERNE®

Note: Always block plugs when conducting air tests. Consult manufacturers' safety instructions before installing product.

Cherne Big Mouth Flow-Through Plugs—Feature an interchangeable bypass flange that allows the same plug to be used for different applications. Removable tire valve allows for easy replacement.

Cherne Muni Ball Plug, 53MH31—Has a full bypass so that you can both test and monitor your piping system. Ideal for use in the installation and repair of commercial or residential piping applications, including sanitary and storm sewer pipe systems.

Cherne Test Ball Plug, 53MH28—Model features Rupture Disc design that helps prevent over inflation of the pneumatic plug. For pressure testing and blocking of residential drain, waste, and vent (DWV) systems during installation and repair of municipal infrastructure including storm and sanitary sewer piping systems.

Cherne Single- and Multi-Size Test Ball Plugs, Natural Rubber with 12" Removable Zinc-Plated Steel Chain and Over-Sized Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
¾ to 1 ¼ in	0.75 in	1.31 in	40 ft of Head	45 psi	2HCD7
1 ¼ to 1 ½ in	1.11 in	1.75 in	30 ft of Head	40 psi	1VNE8
1 ¼ to 2 in	1.25 in	2.1 in	40 ft of Head	40 psi	5NRV6
2 in	1.9 in	2.25 in	30 ft of Head	40 psi	1VNE9
2 to 3 in	1.9 in	3.1 in	40 ft of Head	35 psi	5NRV7
2 ½ in	2.34 in	2.75 in	30 ft of Head	35 psi	3NVY8
3 in	2.77 in	3.25 in	30 ft of Head	35 psi	1VNE7
3 to 4 in	2.8 in	4.1 in	40 ft of Head	40 psi	5NRV8
4 in	3.41 in	4.25 in	30 ft of Head	30 psi	1VNF1
5 in	4.6 in	5.25 in	30 ft of Head	30 psi	1VNF2
6 to 8 in	5.25 in	8.25 in	40 ft of Head	35 psi	5NRT9
6 in	5.44 in	6.25 in	30 ft of Head	30 psi	1VNF3
8 to 12 in	7 in	12.25 in	25 ft of Head	20 psi	5NRT8
8 in	7 in	8.25 in	40 ft of Head	17 psi	3NVY9
10 in	9.0 in	10.25 in	40 ft of Head	25 psi	3NVZ1
12 in	10.5 in	12.25 in	40 ft of Head	25 psi	3NVZ2

Cherne MS2 Long Test-Ball Plugs, Natural Rubber with Nylon Strap and Handle, and Integrated Relief Valve for Waste Stack Testing

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
2 to 3 in	1.75 in	3.25 in	30 ft of Head	40 psi	2HCE4
3 to 4 in	2.75 in	4.25 in	30 ft of Head	40 psi	2HCE5
4 to 6 in	3.5 in	6.25 in	30 ft of Head	30 psi	3NVY4

Test-Tite Test Plug, Rubber, for DWV Plumbing Systems and Seal for Pipe

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
1 ½ in	1.49 in	1.5 in	13 psi	45 psi	442X98
2 in	2.05 in	2 in	13 psi	40 psi	442X99
3 in	3.07 in	3 in	13 psi	35 psi	442Y01
4 in	4 in	4 in	13 psi	30 psi	442Y02

Test-Tite Multi-Size Test Plugs, Rubber, for DWV Systems To Seal Round And Out Of Round Pipe

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
1 ¼ to 2 in	1.18 in	2.25 in	30 ft of Head	40 psi	3EJK7
3 to 4 in	2.63 in	4.25 in	30 ft of Head	35 psi	3EJK8
4 to 6 in	3.41 in	6.25 in	30 ft of Head	30 psi	3EJK9
4 to 8 in	3.7 in	8.25 in	30 ft of Head	30 psi	3EJL1
8 to 12 in	7.09 in	12.25 in	40 ft of Head	30 psi	3EJL2
10 to 16 in	8.92 in	16.25 in	40 ft of Head	30 psi	3EJL3
12 to 24 in	11.95 in	24.25 in	12 ft of Head	21 psi	3EJL4

Cherne Big-Mouth Flow-Through Plugs, Rubber and Aluminum, Equipped with Removable ⅜" Eye Bolt, for Gravity Bypassing or Bypass Pumping

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
8 to 10 in	7.25 in	10.25 in	25 ft of Head	35 psi	5NRW2
12 to 15 in	10.62 in	15.25 in	25 ft of Head	30 psi	5NRW3

Cherne Single- and Multi-Size Muni-Ball Plugs, Natural Rubber, for Blocking Sewer Flow or Conducting Sewer Air Tests

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
1 ½ in	1.49 in	1.88 in	50 ft of Head	40 psi	2HCD3
2 in	1.88 in	2.25 in	50 ft of Head	40 psi	2HCD4
4 in	3.25 in	4.25 in	50 ft of Head	40 psi	1VNH2

** For max. back air pressure, divide max. ft. of head by 2.31.*

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
6 in	4.5 in	6.25 in	30 ft of Head	35 psi	2HCD5
8 in	7.0 in	8.25 in	30 ft of Head	35 psi	2HCD6
10 in	9 in	10.25 in	30 ft of Head	35 psi	3NVZ4
12 in	10.5 in	12.25 in	30 ft of Head	35 psi	3NVZ5
15 to 16 in	14.0 in	16.25 in	30 ft of Head	35 psi	3NVZ6
24 to 48 in	20.5 in	50 in	23 ft of Head	22 psi	5NRW0

Cherne Ball Plug, Natural Rubber, for Block Water Flow or Back Plug for Sewer Air Testing

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
4 39/64 in	3.97 in	6 in	40 ft of Head	—	53MH31

Cherne Test Ball Plug, Rubber, Zinc Plated Chain, for Block Water Flow or Back Plug for Sewer Air Testing

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
4 39/64 in	3.97 in	6 in	40 ft of Head	—	53MH28

Cherne Clean-Seal Plugs, Natural Rubber Body with High-Impact ABS Threads, for Stack Testing of DWV Plumbing Systems

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Required Inflation Pressure	Item No.
1 ½ in		—	30 ft of Head	30 psi	3NVZ3
2 in		—	30 ft of Head	35 psi	2HCE1
3 in		—	30 ft of Head	35 psi	2HCE2
4 in		—	30 ft of Head	35 psi	2HCE3

Description	Item No.
Cherne Accessories	
3-ft. Air Test Ext. Hose, 3/16" ID	3NVY5
5-ft. Air Test Ext. Hose, 3/16" ID	1VNH4
10-ft. Air Test Ext. Hose, 3/16" ID	3NVY6
20-ft. Air Test Ext. Hose, 3/16" ID	3NVY7
6-ft. Remo Pole	5NRV1
Air Loc Fan	53MH29
Test Ball Plug	52RW16
Test Gauge 0-100 psi Press. Range	2HCE8
Test Gauge 0-15 psi Press. Range	2HCE9
Test Gauge 0-30 psi Press. Range	2HCE6
Test Gauge 0-60 psi Press. Range	2HCE7
Test Pump	53MH35

2KUT5

3HCY4

Fernco

Pow-R Pipe Repair Products

- 2KUT3 to 2KUT5 are EPA-approved for use on drinking water lines
- Gray color

Hand-workable epoxy cures as hard as steel to create permanent, industrial-strength repairs. Simply apply putty, soak wrap, wrap pipe, and tighten for about 15 min. Holds tight, even under water. Kits include gloves and instructions. For use on fluid-bearing pipes made from copper, plastics, PVC, rubber, fiberglass, galvanized, concrete, and more.

Description	Size	Full Cure	Line Pressure	Performance Temp. Range	Item No.
Pow-R Wrap Pipe Repair System					
For Pipe Up to 1" Dia.	2 in x 4 ft	30 min	600 psi	Up to 425°F	2KUT3
For Pipe 1¼ to 3" Dia.	3 in x 11 ft	30 min	600 psi	Up to 425°F	2KUT4
For Pipe 3 to 6" Dia.	4 in x 21 ft	30 min	600 psi	Up to 425°F	2KUT5
Pow-R Pack Universal Plumbing, Pipe and Hose Repair Kit					
For Pipe Up to 1 in Dia.	2 in x 4 ft Wrap, 4 in x 6 in Patch	1 hr	600 psi	Up to 425°F	3HCY4

Mechanical Test Plugs

Note: Always block plugs when conducting air tests.

Cherne Econ-O-Grip Plugs, Galvanized Steel

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.44 in	1.65 in	5 ft of Head	1VNG4
2 in	1.96 in	2.25 in	5 ft of Head	1VNG5
3 in	2.86 in	3.25 in	5 ft of Head	1VNG6
4 in	3.78 in	4.5 in	5 ft of Head	1VNG7
5 in	4.62 in	5.3 in	2 ft of Head	1VNG8
6 in	5.62 in	6.4 in	2 ft of Head	1VNG9

Cherne, Petro Econ-O-Grip, Stainless Steel and Chemical-Resistant Nitrile Rubber

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.44 in	1.65 in	5 ft of Head	3NVX7
2 in	1.96 in	2.25 in	5 ft of Head	3NVX8
3 in	2.86 in	3.25 in	5 ft of Head	3NVX9
4 in	3.78 in	4.3 in	5 ft of Head	3NVY1
5 in	4.62 in	5.3 in	2 ft of Head	3NVY2
6 in	5.62 in	6.3 in	2 ft of Head	3NVY3

Cherne Sure-Grip Plugs, Polypropylene

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.48 in	1.63 in	50 ft of Head	3NVU4
2 in	1.89 in	2.09 in	50 ft of Head	3NVU5
3 in	2.89 in	3.09 in	30 ft of Head	3NVU6
4 in	3.87 in	4.09 in	30 ft of Head	3NVU7

Cherne Kwik 'N Sure Plugs, Natural Rubber

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
39/100 in	0.38 in	0.43 in	428 ft of Head	5NRV0
½ in	0.5 in	0.56 in	415 ft of Head	2HCF4
¾ in	0.72 in	0.87 in	415 ft of Head	2HCF3
1 in	0.86 in	1.02 in	92 ft of Head	2HCF1
1 ¼ in	1.24 in	1.43 in	258 ft of Head	2HCF5

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.43 in	1.53 in	203 ft of Head	2HCF2
2 in	1.73 in	2.06 in	258 ft of Head	2HCF6
2 ½ in	2.3 in	2.78 in	166 ft of Head	2HCF7
3 in	2.73 in	3.2 in	65 ft of Head	3NVU8
4 in	3.72 in	4.5 in	55 ft of Head	3NVU9
5 in	4.8 in	5.19 in	18 ft of Head	3NVX1

Test-Tite T-Cones Test Plugs, Plastic

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.48 in	1.65 in	50 ft of Head	3EJN1
2 in	1.9 in	2.17 in	50 ft of Head	3EJN2
3 in	2.8 in	3.1 in	50 ft of Head	3EJN3
4 in	3.78 in	4.06 in	50 ft of Head	3EJN4
6 in	5.77 in	6.08 in	30 ft of Head	3EJN5
8 in	7.76 in	8.03 in	30 ft of Head	3EJN6

Cherne Original Gripper Plugs: End-of-Pipe, Glass Reinforced ABS Plastic with Natural Rubber O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 ½ in	1.48 in	1.65 in	40 ft of Head	1VNF4

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
2 in	1.9 in	2.17 in	40 ft of Head	1VNF5
3 in	2.8 in	3.1 in	40 ft of Head	1VNF6
4 in	3.8 in	4.06 in	40 ft of Head	1VNF7
6 in	5.77 in	6.08 in	40 ft of Head	1VNG1
8 in	7.7 in	8.03 in	40 ft of Head	2HCD8

Cherne Original Gripper Plugs: Inside-of-Pipe, Glass Reinforced ABS Plastic with Natural Rubber O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
4 in	3.8 in	4.06 in	40 ft of Head	1VNF8
6 in	5.77 in	6.08 in	40 ft of Head	1VNF9

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
8 in	7.7 in	8.03 in	40 ft of Head	2HCD9

Cherne Hub-Fit Gripper Plugs, Glass Reinforced ABS Plastic with Natural Rubber O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
2 in	2.25 in	2.45 in	30 ft of Head	3NVX4
3 in	3.44 in	3.53 in	30 ft of Head	3NVX5
4 in	4.41 in	4.53 in	30 ft of Head	3NVX6

Cherne Clean-Out Gripper Plugs (with American Threads), Glass Reinforced ABS Plastic with Natural Rubber O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
2 in	2.16 in	2.2 in	40 ft of Head	3NVX2
3 in	3.23 in	3.75 in	40 ft of Head	1VNG2
3 ½ in	3.78 in	4.25 in	40 ft of Head	3NVX3
4 in	4.22 in	4.6 in	40 ft of Head	1VNG3

Cherne Monitor-Well Locking Plugs, Chemical and Petroleum-Resistant Estaloc Plastic with Nitrile O-Ring, to Seal all Schedule 40 Pipe†

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
1 to 1 ¼ in	1.0 in	1.38 in	15 ft of Head	3NVU3
2 in	1.9 in	2.31 in	15 ft of Head	3NVU2
3 in	2.8 in	3.1 in	15 ft of Head	3NVU1
4 in	3.8 in	4.38 in	15 ft of Head	3NVT9
6 in	5.77 in	6.08 in	15 ft of Head	3NVT8
8 in	7.76 in	8.03 in	15 ft of Head	5NRW7

Cherne T-Handle Aluminum Gripper Plugs (Nonbypass), Heavy-Duty Aluminum with Neoprene O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
8 in	7.7 in	8.3 in	40 ft of Head	3NWA7
10 in	9.8 in	10.3 in	40 ft of Head	3NWA8
12 in	11.7 in	12.3 in	30 ft of Head	3NWA9

Cherne T-Handle Gripper Plugs (With Bypass), Heavy-Duty Aluminum with Neoprene O-Ring

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
6 in	5.7 in	6.3 in	40 ft of Head	3NWC1
8 in	7.7 in	8.3 in	40 ft of Head	3NWC2
10 in	9.8 in	10.3 in	40 ft of Head	3NWC3
12 in	11.7 in	12.3 in	30 ft of Head	5NRW8
15 in	14.8 in	15.3 in	30 ft of Head	5NRW9
18 in	17.7 in	18.3 in	20 ft of Head	5NRX0

Cherne Mechanical Expansion Plug, for Water or Air Testing or Blocking, Bypass Plug

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
6 in	5.77 in	6 in	10 ft of Head	53MH26

Cherne Mechanical Expansion Plug, for Water or Air Testing or Blocking, Mechanical

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
2 in	2.0 in	2 in	30 ft of Head	53MH34

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
3 in	2.94 in	3 in	25 ft of Head	53MH37
4 in	3.97 in	4 in	18 ft of Head	53MH36
12 in	11.95 in	12 in	6 ft of Head	53MH33

Cherne Plug, for Underground, T-Handle

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Item No.
6 in	5.77 in	6 in	40 ft of Head	53MH27

*** For max. back air pressure, divide max. ft. of head by 2.31. † Meet all EPA requirements for locking plugs.***

Expansion Plugs

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Brass, Zinc Plated Steel, Neoprene Rubber Item No.	Stainless Steel, Neoprene Rubber Item No.	Brass, Neoprene Rubber, Zinc Plated Steel Item No.	Neoprene Rubber, Stainless Steel Item No.
Snap-Tite							
⅜ in	0.38 in	0.405 in	25 ft of Head	6VFR1	6VFT2	—	—
7⁄16 in	0.41 in	0.4725 in	25 ft of Head	6VFR2	6VFT3	—	—
½ in	0.47 in	0.54 in	25 ft of Head	6VFR3	6VFT4	—	—
9⁄16 in	0.55 in	0.6075 in	25 ft of Head	—	6VFT5	6VFR4	—
⅝ in	0.61 in	0.675 in	25 ft of Head	—	6VFT6	6VFR5	—
¾ in	0.72 in	0.81 in	25 ft of Head	—	6VFT8	6VFR7	—
⅞ in	0.85 in	0.945 in	25 ft of Head	—	6VFV0	6VFR9	—
1 in	0.97 in	1.08 in	12 ft of Head	—	6VFV2	6VFT1	—
1 ¼ in	1.19 in	1.333 in	5 ft of Head	—	—	14M015	—
1 ½ in	1.38 in	1.545 in	5 ft of Head	—	—	14M016	14M025
1 ¾ in	1.63 in	1.826 in	5 ft of Head	—	—	14M017	—
2 in	1.95 in	2.184 in	5 ft of Head	—	—	14M018	14M026
2 ¼ in	2.25 in	2.52 in	5 ft of Head	—	—	14M019	—
2 ½ in	2.47 in	2.766 in	5 ft of Head	—	—	14M020	—
2 ¾ in	2.69 in	3.013 in	5 ft of Head	—	—	14M021	—
3 in	2.94 in	3.293 in	5 ft of Head	—	—	14M022	14M027
3 ½ in	3.38 in	3.786 in	5 ft of Head	—	—	14M023	—
4 in	3.94 in	4.413 in	5 ft of Head	—	—	14M024	—
Turn-Tite							
½ in	0.48 in	0.54 in	24 ft of Head	6VFL9	6VFP0	—	—
⅝ in	0.56 in	0.629 in	10 ft of Head	—	14M013	—	—
⅝ in	0.56 in	0.63 in	10 ft of Head	14M003	—	—	—
¾ in	0.72 in	0.81 in	24 ft of Head	6VFN0	6VFP1	—	—
⅞ in	0.81 in	0.909 in	10 ft of Head	14M004	14M014	—	—
1 in	0.94 in	1.08 in	12 ft of Head	6VFN1	6VFP2	—	—
1 ⅛ in	1.06 in	1.166 in	5 ft of Head	14M005	—	—	—
1 ¼ in	1.21 in	1.35 in	12 ft of Head	6VFN2	6VFP3	—	—
1 ⅜ in	1.32 in	1.478 in	5 ft of Head	14M006	—	—	—
1 ½ in	1.44 in	1.62 in	12 ft of Head	6VFN3	6VFP4	—	—
1 ⅝ in	1.55 in	1.736 in	5 ft of Head	14M007	—	—	—
1 ¾ in	1.7 in	1.89 in	12 ft of Head	6VFN4	6VFP5	—	—
1 ⅞ in	1.81 in	2.027 in	5 ft of Head	14M008	—	—	—
2 in	1.93 in	2.16 in	12 ft of Head	6VFN5	6VFP6	—	—
2 ¼ in	2.22 in	2.43 in	12 ft of Head	6VFN6	6VFP7	—	—
2 ½ in	2.44 in	2.7 in	12 ft of Head	6VFN7	6VFP8	—	—
2 ¾ in	2.63 in	2.97 in	12 ft of Head	6VFN8	6VFP9	—	—
3 in	2.92 in	3.24 in	12 ft of Head	6VFN9	6VFR0	—	—
3 ¼ in	3.13 in	3.506 in	5 ft of Head	14M009	—	—	—
3 ½ in	3.41 in	3.853 in	5 ft of Head	14M010	—	—	—
3 ¾ in	3.69 in	4.133 in	5 ft of Head	14M011	—	—	—
4 in	3.97 in	4.446 in	10 ft of Head	14M012	—	—	—

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Neoprene Rubber, Zinc Plated Steel Item No.
Hex-Nut				
½ in	0.48 in	0.538 in	10 ft of Head	14M032
¾ in	0.72 in	0.805 in	10 ft of Head	14M033
1 in	0.94 in	1.049 in	5 ft of Head	14M034
1 ¼ in	1.21 in	1.355 in	5 ft of Head	14M035
1 ½ in	1.44 in	1.613 in	5 ft of Head	14M036
1 ¾ in	1.7 in	1.904 in	5 ft of Head	14M037
2 in	1.93 in	2.162 in	5 ft of Head	14M038
Wing-Nut				
½ in	0.48 in	0.538 in	10 ft of Head	14M028
1 in	0.94 in	1.049 in	5 ft of Head	14M029
1 ½ in	1.44 in	1.613 in	5 ft of Head	14M030
2 in	1.93 in	2.162 in	5 ft of Head	14M031

Snap-Tite 6VFR1

Turn-Tite 6VFL9

Hex-Nut 14M037

Wing-Nut 14M028

Bypass Turn-Tite 14M039

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Aluminum, Neoprene Rubber, Stainless Steel Item No.
Thumb Nut				
5⁄16 in	0.29 in	0.3375 in	24 ft of Head	6VFV4
⅜ in	0.36 in	0.405 in	24 ft of Head	6VFV5
½ in	0.48 in	0.54 in	24 ft of Head	6VFV7
9⁄16 in	0.53 in	0.6075 in	24 ft of Head	6VFV8

Nom. Size	Min. Dia.	Max. Dia.	Max. Back Pressure*	Brass, Neoprene Rubber, Zinc Plated Steel Item No.
Bypass TurnTite				
½ in	0.48 in	0.537 in	10 ft of Head	14M039
1 in	0.94 in	1.049 in	5 ft of Head	14M040
2 in	1.44 in	1.613 in	5 ft of Head	14M041
	1.93 in	2.122 in	5 ft of Head	14M042

*** For max. back air pressure, divide max. ft. of head by 2.31.***

Clevis Hangers

Recommended for suspending stationary, noninsulated pipelines.

1RVP4

LIGHT-DUTY

Carbon Steel-Copper Finished (for Copper Pipe)

Comply with Federal Specifications WW-H-171 (Type 12).

Carbon Steel-Zinc Finish

- Max. temp.: 450°F

For steel pipe but better for corrosive environments. Comply with Federal Specification WW-H-171E (Type 12).

Carbon Steel-Plain Finish

- Max. temp.: 650°F

Meet Federal Specifications WW-H-171 (Type 12).

HEAVY-DUTY

Carbon Steel (for Wastewater Pipe)

- Max. temp.: 650°F

Suitable for wastewater applications and where ductile iron or cast-iron pipe is used. Comply with Federal Specifications A-A-1192 (Type 1). WW-H-171-E (Type 1), and MSS-SP-69 (Type 1).

Carbon Steel - Plain Finish

- Max. temp.: 650°F

For steel pipe. Meet A-A-1192A (Type 1), WW-H-171-E (Type 1), ANSI/MSS SP-69, and MSS SP-58 (Type 1).

Carbon Steel-Zinc Finish

- Max. temp.: 450°F

304 Stainless Steel

Meet Federal Specification WW-H-171 (Type 1), MSS SP-58 and SP-69 (Type 1).

Pipe Size	Rod Size	Max. Load	Carbon Steel-Copper Finish (for Copper Pipe) Item No.	Carbon Steel-Plain Finish Item No.	Carbon Steel-Zinc Finish Item No.
Light Duty, Adjustable, Anvil					
½ in	⅜ in	150 lb	**4HXR6**	**4HXT7**	**4HXU7**
¾ in	⅜ in	150 lb	**4HXR7**	—	—
¾ in	⅜ in	250 lb	—	**4HXT8**	**4HXU8**
1 in	⅜ in	250 lb	**4HXR8**	**4HXT9**	**4HXU9**
1 ½ in	⅜ in	250 lb	**4HXT1**	**4HXU2**	**4HXV2**
2 in	⅜ in	250 lb	**4HXT2**	**4HXU3**	**4HXV3**
2 ½ in	⅜ in	350 lb	**4HXT3**	**4HXU4**	**4HXV4**
3 in	⅜ in	350 lb	**4HXT4**	**4HXU5**	**4HXV5**
4 in	⅜ in	400 lb	**4HXT6**	**4HXU6**	**4HXV6**

Pipe Size	Rod Size	Max. Load	Carbon Steel (for Wastewater Pipe) Item No.	Carbon Steel-Plain Finish Item No.	Carbon Steel-Zinc Finish Item No.
Heavy-Duty Adjustable, Anvil					
½ - ¾	⅜ in	610 lb	—	**4HXW8**	**4HXV7**
1 in	⅜ in	730 lb	—	**4HXW9**	**4HXV8**
1 ¼ in	⅜ in	730 lb	—	**4HXX1**	**4HXV9**
1 ½ in	⅜ in	730 lb	—	**4HXX2**	**4HXW1**
2 in	⅜ in	730 lb	—	**4HXX3**	**4HXW2**
2 ½ in	½ in	1,350 lb	—	**4HXX4**	**4HXW3**
3 in	½ in	1,350 lb	—	**4HXX5**	**4HXW4**
4 in	⅝ in	1,430 lb	**5LWX5**	**4HXX6**	**4HXW5**
6 in	¾ in	1,940 lb	**5LWX6**	**4HXX7**	**4HXW6**
8 in	¾ in	2,000 lb	**5LWX7**	**4HXX8**	**4HXW7**
10 in	⅞ in	3,600 lb	**5LWX8**	—	—
12 in	⅞ in	3,800 lb	**5LWX9**	—	—

Pipe Size	Rod Size	Max. Load	304 Stainless Steel Item No.
Heavy-Duty, nVent Caddy			
½ in	⅜ in	610 lb	**1RVP4**
¾ in	⅜ in	610 lb	**1RVP5**
1 in	⅜ in	610 lb	**1RVP6**
1 ¼ in	⅜ in	610 lb	**1RVP7**
1 ½ in	⅜ in	610 lb	**1RVP8**
2 in	⅜ in	610 lb	**1RVP9**
2 ½ in	½ in	1,130 lb	**1RVR1**
3 in	½ in	1,130 lb	**1RVR2**
3 ½ in	½ in	1,130 lb	**1RVR3**
4 in	⅝ in	1,130 lb	**1RVR4**

DURA-BLOK™

Pipe Support Blocks

1CWH4

15E509

Pyramid 25—Innovative design won't damage roof membranes. No tools or fasteners needed. Handle up to three ½", two ¾", or one 1" pipe or conduit.

Pyramid 50—14-ga. steel top accepts standard strut pipe clamps (not included). Electro-galvanized steel.

Recycled Rubber—100% recycled rubber is UV resistant, won't penetrate roof material, and can accept screw fasteners for securing accessories. Suitable for supporting cable trays, conduits, HVAC ducts, and pipe.

Max. Load (lb.)	L (in.)	W (in.)	H (in.)	Brand	Mfr. Model	Item No.
Pyramid 25						
25 lb	5 ¹¹⁄₁₆ in	4 ¹¹⁄₁₆ in	3 ⅝ in	Nvent Caddy	PPRPS25H4	**1CWH4**
25 lb	5 ¹¹⁄₁₆ in	4 ¹¹⁄₁₆ in	5 ⅝ in	Nvent Caddy	PPRPS25H6	**1CWH5**
Pyramid 50 lb						
50 lb	10 ⅜ in	5 in	6 in	Nvent Caddy	RPS50H6EG	**1RVH6**
Recycled Rubber						
200 lb	4 ⅘ in	6 in	5 in	Dura-Blok	DB5	**15E508**
500 lb	9 ⅗ in	6 in	5 in	Dura-Blok	DB10	**15E509**

1RUY2

Loop Hangers

Recommended for suspension of stationary noninsulated pipelines. For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

304 Stainless Steel—Hex nut (not included) is recommended for use with hanger.

Carbon Steel-Copper Plated—Copper colored for ID purposes. Swivel, adjustable band.

Electro-Galvanized Steel, J-Style—Can be suspended by hanger rod or attached to wall.

Carbon Steel-Zinc Plated Finish—Can be suspended by hanger rod or attached to wall. T-slot in hanger permits side bolt to be installed after pipe installation and setting.

Swivel, Adjustable Band with NFPA Rod Sizes—Manufactured to use the minimum rod size permitted by NFPA for fire sprinkler piping. Electro-galvanized steel. Swivel, adjustable band.

Carbon Steel-Zinc Plated Finish—A retained insert nut helps keep the loop hanger and insert nut together. Swivel, heavy-duty adjustable band. ½" to 2" have rounded edge for use with CPVC.

J-Style, Felt Lined—Help prevent electrolysis when used with copper tubing lines. Felt lining reduces noise in pipes. Electro-galvanized steel.

Pipe Size (in.)	Rod Size	Max. Load (lb.)	Item No.
304 Stainless Steel, nVent Caddy			
¾ in	⅜ in	610 lb	**1RVN6**
1 in	⅜ in	610 lb	**1RVN7**
1 ¼ in	⅜ in	610 lb	**1RVN8**
1 ½ in	⅜ in	610 lb	**1RVN9**
2 in	⅜ in	610 lb	**1RVP1**
2 ½ in	½ in	970 lb	**1RVP2**
3 in	½ in	970 lb	**1RVP3**
Carbon Steel-Copper Plated, Finish Anvil			
½ to 1 ¼	⅜ in	300 lb	**4HXX9**
2 in	⅜ in	300 lb	**4HXY2**
4 in	⅜ in	650 lb	**4HXY6**
Electro-Galvanized Steel, J Style, nVent Caddy			
6 in	¾ in	1,000 lb	**4UEG8**
Carbon Steel-Zinc Plated Finish, J Style, Anvil			
1 in	⅜ in	400 lb	**4HXZ7**
1 ½ in	⅜ in	400 lb	**4HXZ9**
2 in	⅜ in	400 lb	**4HYA1**
3 in	½ in	500 lb	**4HYA3**
4 in	⅝ in	550 lb	**4HYA4**
5 in	⅝ in	550 lb	**4HYA5**
6 in	¾ in	600 lb	**4HYA6**
Swivel, Adjustable Band w/ NFPA Rod Sizes, nVent Caddy			
2 ½ in	⅜ in	525 lb	**1RUX7**
3 in	⅜ in	525 lb	**1RUX8**
4 in	⅜ in	650 lb	**1RUX9**
5 in	½ in	1,000 lb	**4UEF6**
6 in	½ in	1,000 lb	**1RUY1**
8 in	½ in	1,000 lb	**1RUY2**
Carbon Steel-Zinc Plated Finish, Anvil			
½ - 1	⅜ in	300 lb	**4HXY7**
1 ¼ in	⅜ in	300 lb	**4HXY8**
1 ½ in	⅜ in	300 lb	**4HXY9**
2 in	⅜ in	300 lb	**4HXZ1**
2 ½ in	⅜ in	525 lb	**4HXZ2**
3 in	⅜ in	525 lb	**4HXZ3**
4 in	⅜ in	650 lb	**4HXZ4**
J Style - Felt Lined, nVent Caddy			
2 in	⅜ in	400 lb	**1RVB2**

1RVD4

22FP57

Split Ring Hangers

Use for suspending stationary, noninsulated pipelines. Allow for piping runs close to ceiling or walls. Bolt and rivet are carbon steel. Meet Federal Specification WW-H-171 (Type 25), MSS SP-58 (Type 12).

Pipe Size (in.)	Max. Load (lb.)	Brand	Material: Cast Iron Item No.	Material: Copper Electro Plated Cast Iron Item No.	Material: Electro-Galvanized Cast Iron Item No.	Material: Electro Galvanized Malleable Iron Item No.
For ½ in Rod						
2 ½ in	300 lb	nVent Caddy	**1RVE2**	—	**1RVE1**	—
3 in		nVent Caddy	**1RVE4**	—	**1RVE3**	—
4 in		nVent Caddy	**1RVE6**	—	**1RVE5**	—
For ⅜-16 UNC 2B Rod						
¾ in	180 lb	nVent Caddy	—	—	**1RVD5**	—
For ⅜ in Rod						
½ in	180 lb	nVent Caddy	**1CWE3**	**1CWG7**	**1RVD4**	—
½ in		—	—	—	—	**22FP57**
¾ in		nVent Caddy	**1CWE4**	**1CWG8**	—	—
¾ in		—	—	—	—	**22FP58**
1 in		nVent Caddy	**1CWE5**	**1CWG9**	**1RVD6**	—
1 ¼ in	180	nVent Caddy	—	**1CWH1**	—	—
1 ½ in	180 lb	nVent Caddy	**1CWE7**	**1CWH2**	**1RVD8**	—
1 ¼ in		nVent Caddy	**1CWE6**	—	**1RVD7**	—
1 in		—	—	—	—	**22FP59**
1 ½ in		—	—	—	—	**22FP60**
2 in		nVent Caddy	**1CWE8**	**1CWH3**	**1RVD9**	—
2 in		—	—	—	—	**22FP61**

ZSI

Cush-A-Clamp Strut Clamps

- Temp. range: -50° to 275°F

Clamps absorb shock and vibration; reduce unwanted noise and galvanic corrosion in multiple-line runs. Thermoplastic cushion resists most oils, chemicals, and industrial cleaning compounds. Sizes up to 1⅜" have Controlled Squeeze design, which eliminates over-tightening and rotation.

Tube Size (in.)	Pipe Size (in.)	Max. Load (lb.)*	L (in.)	W (in.)	Brand	Material: Electro Galvanized Gold Item No.	Material: Stainless Steel Type 304 Item No.
—	¼"	1,000 lb	63⁄64 in	1 ⅝ in	Zsi	4MUZ5	4MUZ6
—	⅜"	1,000 lb	1 ⅛ in	1 ⅝ in	Zsi	4MVF6	4MVF7
—	¾"	1,000 lb	1 37⁄64 in	1 ⅝ in	Zsi	4MVF2	—
—	1"	1,000 lb	1 49⁄64 in	1 ⅝ in	Zsi	4MUY8	—
—	1¼"	2,200 lb	2 11⁄64 in	1 ⅝ in	Zsi	4MVA2	4MVA3
—	1½"	2,200 lb	2 21⁄64 in	1 ⅝ in	Zsi	—	4MVC7
—	5"	3,600 lb	6 1⁄64 in	1 ⅝ in	Zsi	4MVJ3	4MVJ4
—	6"	3,600 lb	7 5⁄64 in	1 ⅝ in	Zsi	4MVJ9	4MVK1
¼"	—	1,000 lb	⅝ in	1 ⅝ in	Zsi	4MUZ7	4MUZ8
⅜"	—	1,000 lb	53⁄64 in	1 ⅝ in	Zsi	4MVF8	4MVF9
½"	—	1,000 lb	15⁄16 in	1 ⅝ in	Zsi	4MUZ3	4MUZ4
⅝"	—	1,000 lb	1 1⁄16 in	1 ⅝ in	Zsi	4MVJ5	4MVJ6
⅝"	½"	1,000 lb	15⁄16 in	1 ⅝ in	—	22FP75	—
¾"	—	1,000 lb	1 13⁄64 in	1 ⅝ in	Zsi	4MVF4	4MVF5
¾"	¾"	1,000 lb	1 37⁄64 in	1 ⅝ in	Zsi	—	4MVF3
⅞"	—	1,000 lb	1 5⁄16 in	1 ⅝ in	Zsi	4MVK5	—
⅞"	½"	1,000 lb	1 5⁄16 in	1 ⅝ in	Zsi	4MVK6	4MVK8
⅞"	¾"	1,000 lb	1 13⁄64 in	1 ⅝ in	—	22FP76	—
1"	—	1,000 lb	1 7⁄16 in	1 ⅝ in	Zsi	4MUZ1	4MUZ2
1"	—	1,000 lb	1 45⁄64 in	1 ⅝ in	Zsi	4MVA4	—
1"	1"	1,000 lb	1 49⁄64 in	1 ⅝ in	Zsi	—	4MUY9
1⅛"	—	1,000 lb	1 37⁄64 in	1 ⅝ in	Zsi	4MVA6	4MVA7
1¼"	—	1,000 lb	1 45⁄64 in	1 ⅝ in	Zsi	—	4MVA5
1⅜"	—	1,000 lb	1 53⁄64 in	1 ⅝ in	Zsi	4MVC1	4MVC2
1½"	—	2,200 lb	1 61⁄64 in	1 ⅝ in	Zsi	—	4MVA1
1⅝"	—	2,200 lb	2 5⁄64 in	1 ⅝ in	Zsi	4MVC3	4MVC4
1⅞"	1½"	2,200 lb	2 21⁄64 in	1 ⅝ in	Zsi	4MVC5	—
2"	—	2,200 lb	2 29⁄64 in	1 ⅝ in	Zsi	4MVD2	4MVD3
2"	—	2,200 lb	2 53⁄64 in	1 ⅝ in	—	22FP77	—
2⅛"	—	2,200 lb	2 37⁄64 in	1 ⅝ in	Zsi	4MVD6	4MVD7
2⅜"	2"	2,200 lb	2 53⁄64 in	1 ⅝ in	Zsi	4MVD8	4MVE1
2⅝"	—	2,200 lb	3 5⁄64 in	1 ⅝ in	Zsi	4MVE3	4MVE4
2⅞"	2½"	2,200 lb	3 21⁄64 in	1 ⅝ in	Zsi	4MVE5	4MVE7
3"	—	2,200 lb	3 37⁄64 in	1 ⅝ in	Zsi	4MVE9	4MVF1
3½"	3"	3,600 lb	3 61⁄64 in	1 ⅝ in	Zsi	4MVG1	4MVG3
4⅛"	—	3,600 lb	4 37⁄64 in	1 ⅝ in	Zsi	4MVH9	4MVJ1
4½"	4"	3,600 lb	4 61⁄64 in	1 ⅝ in	Zsi	4MVH5	4MVH7
5⅛"	—	3,600 lb	5 37⁄64 in	1 ⅝ in	Zsi	4MVJ7	—
6"	—	3,600 lb	6 37⁄64 in	1 ⅝ in	Zsi	4MVK2	—

** Maximum pullout load from industry standard 12-ga. strut channel.*

Electro Galvanized Gold 22FP75

Stainless Steel Type 304 4MUY9

1RVJ5

Strut Cushion Clamps and Insulation Couplings

Absorb shock and vibration, reduce unwanted noise, and prevent galvanic corrosion. Fit standard 1⅝"W strut channel. Design helps ensure the cushion remains in place. Corrosion-resistant steel with elastomer cushion. Anvil items are carbon steel with high-strength TPO plastic.

Pipe Size	Tube Size (in.)	W	H	Item No.
nVent Caddy, Strut Cushion Clamp				
Electro-Galvanized Steel with Polypropylene Cushion				
—	—	1 281/500 in	—	1RVK5
	¼ Copper Tube	1 281/500 in	—	1RVJ5
	⅝ Copper Tube	1 281/500 in	—	1RVJ8
	1 Copper Tube	1 281/500 in	—	1RVK2
	2 Copper Tube	1 281/500 in	—	1RVK8
	2 ½ Copper Tube	1 281/500 in	—	1RVK9
	3 Copper Tube	1 281/500 in	—	1RVL1
	4 Copper Tube	1 281/500 in	—	1RVL2
¼ in	—	45⁄64 in	1 19⁄32 in	30UK59
	⅜ Copper Tube	1 281/500 in	—	1RVJ6
⅜ in	½ Copper Tube	1 281/500 in	—	1RVJ7
½ in	¾ in Copper Tube	1 281/500 in	—	1RVJ9
¾ in	—	1 281/500 in	—	1RVK1
1 in		1 281/500 in	—	1RVK3
1 ½ in		2 13⁄32 in	1 19⁄32 in	30UK60
1 ¼ Copper	1 ¼ Copper Tube	1 281/500 in	—	1RVK4
1 ¼ Pipe	1 ½ Copper Tube	1 281/500 in	—	1RVK6
2 in	—	3 in	1 19⁄32 in	30UK61
4 in		5 13⁄64 in	1 19⁄32 in	30UK62

Pipe Size	Fits Tube Size	W	Insulation Thick.	Item No.
Anvil, Klo-Shure Insulation Coupling				
Carbon Steel / High Strength TPO Plastic				
¼"	¼"	1 ⅛ in	⅜ in	29JF53
⅜"	⅜"	1 ½ in	½ in	29JF64
½"	½"	1 ⅝ in	½ in	29JF65
⅝"	⅝"	1 ¾ in	½ in	29JF66
		2 ¼ in	¾ in	29JF81
		2 ¾ in	1 in	29JF92
¾"	¾"	2 ⅜ in	¾ in	29JF82
⅞"	⅞"	1 ¾ in	⅜ in	29JF58
		2 in	½ in	29JF68
		3 in	1 in	29JF93
1⅛"	1⅛"	2 ¾ in	¾ in	29JF84
		3 ¼ in	1 in	29JF94
1⅜"	1⅜"	3 in	¾ in	29JF85
1⅝"	1⅝"	3 ¼ in	¾ in	29JF86
		3 ¾ in	1 in	29JF96
2⅛"	2⅛"	3 ¾ in	¾ in	29JF87

Hammer-On 1RVG1

Superklip 1RUZ3

Tube and Pipe Clamps

SUPERKLIP TUBE AND PIPE CLAMPS

Push the tube into the clamp to close and lock the pipe into place. Fasten with wood screw, dual-threaded screw with or without collar, nail with collar, or ¼" threaded rod. Nonmetallic construction is UV resistant and suitable for outdoor applications. White color.

HAMMER-ON STRAP HANGER CLIPS

Clips support pipe or duct from flange with banding or strapping. Accept strap up to 1¼" wide. 1RVG1 is for pipe runs perpendicular to beam. 1RVG2 is for pipe runs parallel to beam.

ONE PIECE PIPE CLIPS

Use for vertical and horizontal installations. Copper-plated steel construction.

Pipe Size (in.)	Tube Size (in.)	Max. Load (lb.)	Item No.
Superklip Tube and Pipe Clamp			
—	⅜ in	35 lb	1RUZ3
—	½ in	40 lb	1RUZ4
⅜ in	⅝ in	43 lb	1RUZ5
½ in	—	45 lb	1RUZ6
—	¾ in	48 lb	1RUZ7
¾ in	—	54 lb	1RUZ8
—	1 in	58 lb	1RUZ9
1 in	1 ¼ in	67 lb	1RVA1
1 ¼ in	1 ½ in	80 lb	1RVA2
1 ½ in	—	84 lb	1RVA3
—	2 in	90 lb	1RVA4
2 in	—	92 lb	1RVA5

Description	Item No.
Hammer On, Angled Clip	
Angled Clip	1RVG1
Hammer On, Straight Clip	
Straight Clip	1RVG2

Pipe Size (in.)	Item No.
One Piece Pipe Clip	
½ in	1XJR7
¾ in	1XJR8
1 in	1XJR9
1 ½ in	1XJT2
2 in	1XJT3

Strut Pipe Clamps

4HYD5

For securing pipe, tubing, and conduit to strut channel. Nvent Caddy and Anvil models have a heavy-duty, 1-pc. break-apart design with captive combo head machine screw. Approved Vendor models have a design to help ensure the cushion stays in place.

Pipe Size	Copper Electro Plated Steel: Max. Load	Brand	Item No.	Di-Chromate Plated Steel: Max. Load	Brand	Item No.
½ in	400 lb	nVent Caddy	1RVF2	400 lb	—	22FP65
¾ in	400 lb	nVent Caddy	1RVF3	400 lb	—	22FP67
1 ⅛ in	—	—	—	400 lb	—	22FP68
1 in	600 lb	nVent Caddy	1RVF4	—	—	—
1 ¼ in	600 lb	nVent Caddy	1RVF5	—	—	—
1 ½ in	600 lb	nVent Caddy	1RVF6	—	—	—
2 ⅛ in	—	—	—	400 lb	—	22FP70
2 in	800 lb	nVent Caddy	1RVF7	—	—	—
2 ½ in	800 lb	nVent Caddy	1RVF8	—	—	—
3 in	800 lb	nVent Caddy	1RVF9	—	—	—

Pipe Size	Steel: Max. Load*	Brand	Item No.	304 Stainless Steel: Max. Load*	Brand	Item No.
½ in	650 lb	Anvil	4HYD5	400 lb	nVent Caddy	1RVR7
¾ in	650 lb	Anvil	4HYD6	600 lb	nVent Caddy	1RVR8
1 in	650 lb	Anvil	4HYD7	600 lb	nVent Caddy	1RVR9
1 ¼ in	950 lb	Anvil	4HYD8	600 lb	nVent Caddy	1RVT1
1 ½ in	1,050 lb	Anvil	4HYD9	800 lb	nVent Caddy	1RVT2
2 ½ in	1,300 lb	Anvil	4HYE2	800 lb	nVent Caddy	1RVT4
2 in	1,350 lb	Anvil	4HYE1	800 lb	nVent Caddy	1RVT3
3 in	1,150 lb	Anvil	4HYE3	800 lb	nVent Caddy	1RVT5
4 in	1,550 lb	Anvil	4HYE4	1,000 lb	nVent Caddy	1RVT6

** For Anvil items the Max. Load (lb.) refers to max. pullout design load.*

Superfix Cushioned Pipe Clamps

1RVB7

- Temp. range: -58° to 230°F

Use for suspending stationary noninsulated steel and copper pipelines. Innovative hinged design eliminates the need to disassemble the clamp prior to installation. EPDM rubber sleeve provides an average of 20dBA noise reduction. Welded ⅜" cap nut allows easy attachment to threaded rod. Corrosion-resistant electro-galvanized steel construction. Conform with Manufacturers Standardization Society (MSS) SP-58 And SP-69 (Type 12), Fire Rating according to DIN to EN13501-1:E.

Pipe Size	Tube Size	Max. Load	Item No.
¼ in	⅜ in	180 lb	1RVB7
⅜ in	½ in	180 lb	1RVB8
—	⅝ in	180 lb	1RVB9
½ in	¾ in	180 lb	1RVC1
¾ in	1 in	180 lb	1RVC2
1 in	1 ¼ in	180 lb	1RVC3
1 ¼ in	1 ½ in	180 lb	1RVC4
1 ½ in	—	180 lb	1RVC5
—	2 in	180 lb	1RVC6
2 in	—	180 lb	1RVC7
—	2 ½ in	300 lb	1RVC8
2 ½ in	—	300 lb	1RVC9
3 in	—	300 lb	1RVD1
3 ½ in	4 in	300 lb	1RVD2
4 in	—	300 lb	1RVD3

ZSi

Cush-A-Nator Cushioned Clamps

Standard

High Temp.

- Temp. range: -50° to 275°F (Standard)
- Temp. range: -65° to 340°F (High Temp.)

Rugged steel clamps have a durable thermoplastic rubber cushion that resists high heat and provides long life against vibration fatigue. Cushion is self-aligning and has a built-in squeeze control to help provide evenly distributed pressure around the pipe or tube for a secure fit. Clamps include hardware and come with a standard or high temp. elastomer cushion. Meet MSS SP-58 and MSS SP-69 (Type 58).

Tube Size	Pipe Size	L	W	H	Plated Steel Item No.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Standard							
—	½ in		1.31 in	1.82 in	33KF73	33KG10	33KG46
—	¾ in		1.57 in	2.08 in	33KF74	33KG11	33KG47
—	1 in		1.76 in	2.34 in	33KF75	33KG12	33KG48
—	1 ½ in		2.32 in	2.86 in	33KF76	33KG13	33KG49
—	2 in		2.82 in	3.67 in	33KF77	33KG14	33KG50
—	3 in		3.95 in	4.79 in	33KF79	33KG16	33KG52
¼ in	—		0.62 in	0.98 in	33KF46	33KF82	33KG19
⅜ in	—		0.82 in	1.13 in	33KF47	33KF83	33KG20
½ in	—		0.94 in	1.34 in	33KF48	33KF84	33KG21
⅝ in	—		1.06 in	1.54 in	33KF49	33KF85	33KG22
¾ in	—		1.2 in	1.68 in	33KF50	33KF86	33KG23
⅞ in	—		1.31 in	1.82 in	33KF51	33KF87	33KG24
1 in	—		1.44 in	1.95 in	33KF52	33KF88	33KG25
1 ⅛ in	—		1.57 in	2.08 in	33KF53	33KF89	33KG26
1 ¼ in	—		1.7 in	2.21 in	33KF54	33KF90	33KG27
1 ⅜ in	—	1.62 in	1.82 in	2.34 in	33KF55	33KF91	33KG28
1 ½ in	—		1.95 in	2.47 in	33KF56	33KF92	33KG29
1 ⅝ in	—		2.07 in	2.6 in	33KF57	33KF93	33KG30
1 ¾ in	—		2.2 in	2.73 in	33KF65	33KF94	33KG31
1 ⅞ in	—		2.32 in	2.86 in	33KF66	33KF95	33KG32
2 ⅛ in	—		2.57 in	3.23 in	33KF58	33KF97	33KG34
2 ¼ in	—		2.82 in	3.67 in	33KF59	33KF98	33KG35
2 ⅜ in	—		2.82 in	3.67 in	33KF60	33KF99	33KG36
2 ⅝ in	—		3.07 in	3.92 in	33KF61	33KG02	33KG38
2 in	—		2.45 in	3.04 in	33KF67	33KF96	33KG33
2 ½ in	—		2.94 in	3.79 in	33KF68	33KG01	33KG37
2 ⅞ in	—		3.32 in	4.17 in	33KF69	33KG03	33KG39
3 in	—		3.57 in	4.42 in	33KF62	33KG04	33KG40
3 ⅛ in	—		3.57 in	4.42 in	33KF63	33KG05	33KG41
3 ½ in	—		3.95 in	4.79 in	33KF70	33KG06	33KG42
4 ⅛ in	—		4.57 in	5.54 in	33KF64	33KG08	33KG44
4 in	—		4.45 in	5.11 in	33KF71	33KG07	33KG43
High Temp.							
—	1 ½ in		2.32 in	2.86 in	33KG85	33KH23	33KH58
¼ in	—		0.62 in	0.98 in	33KG55	33KG91	33KH28
⅜ in	—		0.82 in	1.13 in	33KG56	33KG92	33KH29
½ in	—		0.94 in	1.34 in	33KG57	33KG93	33KH30
⅝ in	—		1.06 in	1.54 in	33KG58	33KG94	33KH31
¾ in	—		1.2 in	1.68 in	33KG59	33KG95	33KH32
⅞ in	—		1.31 in	1.82 in	33KG60	33KG96	33KH33
1 in	—		1.44 in	1.95 in	33KG61	33KG97	33KH34
1 ⅛ in	—	1.62 in	1.57 in	2.08 in	33KG62	33KG98	33KH35
1 ¼ in	—		1.7 in	2.21 in	33KG63	33KG99	33KH36
1 ⅜ in	—		1.82 in	2.34 in	33KG64	33KH01	33KH37
1 ½ in	—		1.95 in	2.47 in	33KG65	33KH02	33KH38
1 ⅝ in	—		2.07 in	2.6 in	33KG66	33KH03	33KH39
2 in	—		2.45 in	3.04 in	33KG69	33KH06	33KH42
2 ⅛ in	—		2.57 in	3.23 in	33KG70	33KH07	33KH43
2 ⅝ in	—		3.07 in	3.92 in	33KG74	33KH11	33KH47
3 ⅛ in	—		3.57 in	4.42 in	33KG77	33KH14	33KH50
4 in	—		4.45 in	5.11 in	33KG79	33KH16	33KH52

Hanging and Duct Straps

Hanging Straps—Have alternating 3⁄16" nail holes and ¼" bolt holes for multiple mounting options.

Duct Strapping—Use for hanging ductwork in HVAC applications.

4NCD7

Material	W	L (ft.)	Gauge	Hanging Straps Item No.
304 Stainless Steel		10 ft	20	4NCC7
		10 ft	24	4NCD2
		100 ft	20	4NCC8
		100 ft	24	4NCD3
Copper		25 ft	—	5P127
Copper Plated Steel	¾ in	10 ft	24	4NCD4
		100 ft	24	4NCD5
Galvanized Steel		10 ft	20	4NCC5
		10 ft	24	4NCC9
		100 ft	20	4NCC6
		100 ft	24	4NCD1

Material	W	L (ft.)	Gauge	Duct Strapping Item No.
304 Stainless Steel	1 in	10 ft	20	4NCD8
	1 in	10 ft	24	4NCE3
	1 in	100 ft	20	4NCD9
	1 in	100 ft	24	4NCE4
Galvanized Steel	1 in	10 ft	20	4NCD6
	1 in	10 ft	24	4NCE1
	1 in	100 ft	20	4NCD7
	1 in	100 ft	24	4NCE2
	1 in	100 ft	26	4NCE5
	1 ½ in	100 ft	30	4NCE6

Pipe Straps

ELECTRO-GALVANIZED STEEL, 1-HOLE/2-HOLE

Recommended for supporting horizontal runs of piping from the face of a structural member. Fastening hole in strap may be above or below pipe.

1CWC8

GALVANIZED STEEL, 2-HOLE

Use to secure CPVC pipe in a horizontal position on the bottom of structural wood beams, or on steel with hanger tab in the upward position. Can also be used as a guide to limit movement of a vertical CPVC pipe with tab in the vertical position.

5P128

HEAVY-DUTY AND COPPER, 2-HOLE

Help secure tubing to walls, studs, etc. and help form a rigid system. ½" to 2" straps are 10 ga.; 2½" to 4" straps are 3 ga. Zinc-plated finish is more corrosion resistant than plain steel; 304 stainless provides better corrosion resistance than zinc-plated. Copper straps sold 5 per pack, all others sold each.

Rod Size	Copper 2-Hole Item No.
⅛"	5P128
¼"	5P129
⅜"	5P130
½"	5P131
¾"	5P132
1"	5P133
1¼"	5P134
1½"	5P135

Pipe Size (in.)	Electro-Galvanized Steel, 1-Hole/2-Hole Item No.	Galvanized Steel, 2-Hole Item No.	Galvanized Steel, Single Hole Wrap Strap Item No.	Heavy-Duty 304 Stainless Steel 2-Hole Item No.	Heavy-Duty Plain Steel 2-Hole Item No.	Heavy-Duty Zinc-Plated 2-Hole Item No.	Pre-Galvanized Steel, 1-Hole Clamp Item No.
⅜"	1CWC8	—	—	—	—	—	—
½"	—	—	—	4NCA5	4KJV8	4KJW8	1CWC9
¾"	—	4HYC9	4HYC4	4NCA6	4KJV9	4KJW9	1CWD1
1"	—	4HYD1	4HYC5	4NCA7	4KJW1	4KJX1	1CWD2
1¼"	—	4HYD2	4HYC6	4NCA8	4KJW2	4KJX2	1CWD3
1½"	—	4HYD3	4HYC7	4NCA9	4KJW3	4KJX3	1CWD4
2"	—	4HYD4	4HYC8	4NCC1	4KJW4	4KJX4	1CWD5
2½"	4KJX8 *	—	—	4NCC2	4KJW5	4KJX5	—
3"	4NCA3 *	—	—	4NCC3	4KJW6	4KJX6	—
4"	4NCA4 *	—	—	4NCC4	4KJW7	4KJX7	—

** 2-hole straps.*

Smith-Blair
A SENSUS COMPANY

Ductile-Iron Couplings

4NWX2

- Temp. range: -20° to 180°F

Join pipe with no special preparation required. Allow limited pipe expansion and contraction; also dampen vibration. Meet ASTM A307, ASTM A536, NSF 61, and ASTM A53C.

Pipe Size - Pipe Fitting	Fitting Length 4 ½ in Item No.	5 in Item No.	7 in Item No.	12 in Item No.
¾ in	4NWX2	—	—	4NWX3
1 in	—	4NWX4	—	4NWX5
1½ in	—	4NWX6	—	4NWX7
2 in	—	4NWX8	4NWX9	4NWY1
3 in	—	4NWY2	4NWY3	4NWY4
4 in	—	4NWY5	4NWY6	4NWY7

AWWA Pipe Couplings

5ENH2

- Max. pressure: 250 psi
- Temp. range: -20° to 180°F
- Nitrile gasket
- Vacuum rating: 28" Hg

Can join pipes with up to 1.65" of pipe differential using a single flange and gasket. Couplings are heavy cast ductile iron and epoxy coated to resist corrosion. ⅝" bolts. Meet AWWA C219, ANSI A21.11, NSF 61, ASTM A-536, ASTM 633-78.

Pipe Size - Pipe Fitting	No. of Bolts	Fitting Length	Item No.
1 51⁄64 to 2 17⁄64 in	2	4 in	5ENH2
2 21⁄64 in to 2 27⁄32 in	2	4 in	5ENH3
2 53⁄64 in to 3 11⁄32 in	2	4 in	5ENH4
3 29⁄64 in to 4 13⁄64 in	4	5 in	5ENH5
4 29⁄64 in to 5 19⁄32 in	4	5 ½ in	5ENH6
6 17⁄32 in to 7 41⁄64 in	4	6 in	5ENH7
8 17⁄32 in to 9 27⁄32 in	4	6 in	5ENH8
10 41⁄64 in to 12 13⁄64 in	8	7 ½ in	5ENH9
12 ¾ in to 14 13⁄32 in	8	7 ½ in	5ENJ0

straub
the right connection

Grip and Wrap-Around Pipe Couplings

Grip-L

Open-Flex

- Max. pressure: 232 psi
- Temp. range: -4° to 212°F, except 452Y10 to 452Y20 are -4° to 180°F
- Vacuum rating: 28" Hg

Join plain-end pipes without special preparation or special tools, and create a leaktight seal. Reusable couplings dampen vibration and handle pipe misalignment. Meet ASTM 1476, TY2, CL2, CL3.

GRIP-L

Couplings create a pull-out resistant seal. Couplings and bolts are 316 stainless steel.

OPEN-FLEX

304SS casing with split gasket design allows coupling to be installed without pipe disassembly. Not pull-out resistant. Couplings are 304 stainless steel, bolts are galvanized steel.

Pipe Size - Pipe Fitting	No. of Bolts	Fitting Length	Item No.
Grip L Pipe Coupling, EPDM Gasket			
¾ in		1 51/64 in	**5MTA5**
1 in		1 51/64 in	**5MTA6**
1¼ in		2 13/32 in	**5MTA7**
1½ in		2 13/32 in	**5MTA8**
2 in		3 in	**5MTA9**
2½ in	2	3 45/64 in	**5MTC0**
3 in		3 45/64 in	**5MTC1**
4 in		3 45/64 in	**5MTC2**
5 in		4 45/64 in	**5MTC3**
6 in		4 45/64 in	**5MTC4**
8 in		5 39/64 in	**5MTC5**
Grip L Pipe Coupling, Nitrile Gasket			
¾ in		1 13/16 in	**452Y10**
1 in		1 13/16 in	**452Y11**
1¼ in		2 13/32 in	**452Y12**
1½ in		2 13/32 in	**452Y13**
2 in		3 in	**452Y14**
2½ in	2	3 45/64 in	**452Y15**
3 in		3 45/64 in	**452Y16**
4 in		3 45/64 in	**452Y17**
5 in		4 5/16 in	**452Y18**
6 in		4 5/16 in	**452Y19**
8 in		5 39/64 in	**452Y20**
Open Flex Wrap-Around Pipe Coupling, EPDM Gasket			
1½ in		3 in	**5MTC6**
2 in		3 in	**5MTC7**
2½ in		3 in	**5MTC8**
3 in	2	3 45/64 in	**5MTC9**
4 in		3 45/64 in	**5MTD0**
5 in		4 13/64 in	**5MTD1**
6 in		4 13/64 in	**5MTD2**

Hanger Plates and Brackets

For a complete list of standards and specifications, go to Grainger.com® and search for individual products.

CEILING OR WALL PLATES

Structural attachments to support hanger rod from a ceiling or wall.

EYE SOCKET ROD HANGER

Structural attachment used to join hanger rod to a structure.

HINGE ROD HANGER PLATE

Hinge type hanger plates are suitable for attachment to ceiling or wood beams.

IRON SIDE BEAM BRACKET

Use for attaching pipe or conduit to steel or wooden beams.

OFFSET EYE SOCKET ROD HANGER

Structural attachments join hanger rods to a structure with full vertical rod adjustment.

SIDE BEAM ROD HANGER

Prethreaded structural attachment fastened to wall or the side of a joist to support hanger rod. Two #43 wood drive screws are necessary for proper support.

1RUR9

1RUY8

Note: Follow fastener manufacturer's recommended shear and pull-out strength when fastening to the structure.

Rod Size	Material	Max. Load (lb.)	Item No.
Ceiling or Wall Plate			
½ in	Electro-Galvanized Cast Iron	180 lb	**4UEG9**
½ in	Cast Iron	180 lb	**4UEH1**
Ceiling or Wall Rod Hanger Plate			
⅜ in	Copper Plated Malleable	180 lb	**4HYK7**
⅜ in	Malleable Iron	180 lb	**4HYK8**
⅜"-16	Galvanized Steel	180 lb	**4HYK9**
⅜ in	Copper Electro Plated Cast Iron	180 lb	**1RUY9**
⅜ in	Electro-Galvanized Cast Iron	180 lb	**1RUZ1**
⅜ in	Cast Iron	180 lb	**1RUZ2**
Eye Socket Rod Hanger			
⅜ in	Pre-Galvanized Steel	250 lb	**1RUR9**
½ in	Pre-Galvanized Steel	760 lb	**1RUT1**
Hinge Rod Hanger Plate			
⅜ in	Malleable Iron	180 lb	**22FP84**
⅜ in	Copper Plated Malleable Iron	180 lb	**22FP85**
Iron Side Beam Bracket			
½ in	Malleable Iron	640 w/Lag Screw, 1350 w/Bolt to Steel	**4HYL1**
⅝ in	Malleable Iron	760 w/Lag Screw, 2160 w/Bolt to Steel	**4HYL2**
Offset Eye Socket Rod Hanger			
⅜ in	Electro-Galvanized Steel	250 lb	**1RUT2**
Side Beam Rod Hanger			
⅜ in	Steel	250 lb	**1RUY8**

Beam Clamps

nVent CADDY · ANVIL International

Note: Setscrews must be tightened and torqued onto the sloped side of the I-beam.

UNIVERSAL

Structural attachment for top or bottom of metal beams, purlins, channels, or angle iron. Hardened steel setscrew. Max. flange size: ¾". Meet Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69.

C-CLAMPS WITH SETSCREW

Attach to W and M beams. Hardened steel setscrew. Meet Fed. Spec. A-A-1192A (Type 23), WW-H-171-E (Type 23), ANSI/MSS SP-69, and ANSI/MSS SP-58 (Type 23). UL and C-UL Listed. ⅜" size is FM Approved.

C-CLAMPS WITH SETSCREW AND LOCKNUT

For structural attachment to top or bottom of metal beams, purlins, channels, or angle iron. Hardened steel setscrew. Meet Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69. ⅜" size is FM Approved.

WIDE-MOUTH C-CLAMPS

Use under roof installations with bar joist-type construction; or attach to structural shape flanges, with the vertical hanger rod offset from the flange edge.

With Setscrew and Locknut— Max. joist or flange thickness: 1¼", except 4HYG6 to 4HYG9 are 15/16". Meet Fed. Spec. A-A-1192A (Type 19 and 23), WW-H-171-E (Type 23), ANSI/MSS SP-69, ANSI/MSS SP-58 (Type 19 and 23), UL and C-UL Listed, FM Approved; except 4HYG6 to 4HYG9 meet Fed. Spec. A-A-1192A (Type 19), WW-H-171-E (Type 19), ANSI/MSS SP-69, and ANSI/MSS SP-58 (Type 19).

CHANNEL-TO-BEAM

Attaches to beam and supports strut.

MULTIFLANGE

Structural attachment to bottom of purlins and beams to support threaded rod. Swivel feature for sloped roofs. UL Listed for fire protection applications (max. 3" Schedule 40 steel pipe).

PURLIN

Attaches to lower flange of metal beams or purlins with 45° flanges up to 2" long and 90° flanges up to 1½"H. Hardened steel setscrew. Meets Fed. Spec. WW-H-171 (Type 23) and MSS ANSI/MSS-SP-58 (Type 19 and 23); install in accordance with ANSI/MSS-SP-69.

BEAM CLAMP STRAPS

Retainer straps for universal clamps. Field bend and use jam nut over hanger rod to secure. Add 2" width of flange to determine min. strap length.

1XJR3

4HYF8

4HYE8

Rod Size	L (in.)	Material	Max. Load (lb.)	Brand	Item No.
Beam Clamps					
½ in	1 ¾ in	Malleable Iron	400	Anvil	**4HYF9**
Universal Beam Clamps					
¼ in	¾ in	Cast Iron	100 for Bottom, 250 for Top of Beam	nVent Caddy	**1XJR3**
⅜ in	¾ in	Cast Iron	Top of Beam 500 and Bottom 250	nVent Caddy	**1RUY3**
	¾ in	Stainless Steel	500	nVent Caddy	**1RVR5**
	1 ¼ in	Cast Iron	Top of Beam 500 and Bottom 250	nVent Caddy	**1RUY5**
	2 ½ in	Malleable Iron	500	—	**22FP80**
½ in	¾ in	Stainless Steel	1,130	nVent Caddy	**1RVR6**
	2 in	Malleable Iron	810	—	**22FP79**
	¾ in	Cast Iron	Top of Beam 950 and Bottom 760	nVent Caddy	**1RUY4**
C-Clamps with Setscrew					
⅜ in	1 ¾ in	Malleable Iron	400	Anvil	**4HYF8**
½ in	1 ¾ in	Malleable Iron	400	Anvil	**4HYG1**
⅝ in	2 in	Malleable Iron	440	Anvil	**4HYG2**
	2 in	Malleable Iron	440	Anvil	**4HYG3** *
¾ in	2 in	Malleable Iron	500	Anvil	**4HYG4**
C-Clamps with Setscrew and Locknut					
⅜ in	2 ⅕ in	Electro Galvanized Malleable Iron	400	—	**22FP81**
	1 9/16 in	Ductile Iron	250 at Bottom, 500 at Top	Anvil	**4HYE5**
	1 ¾ in	Malleable Iron	400	Anvil	**4HYF7**
	1 ¾ in	Malleable Iron	400	Anvil	**4HYF1** *
	2 ⅜ in	Zinc Galvanized Steel	230	Anvil	**4HYH1**
½ in	1 ¾ in	Ductile Iron	760 at Bottom, 950 at Top	Anvil	**4HYE7**
	1 ¾ in	Malleable Iron	400	Anvil	**4HYF2** *
	1 13/16 in	Ductile Iron	760 at Bottom, 950 at Top	Anvil	**4HYE6**
	2 ⅜ in	Zinc Galvanized Steel	380	Anvil	**4HYH2**
⅝ in	2 in	Malleable Iron	440	Anvil	**4HYF3**
	2 in	Malleable Iron	440	Anvil	**4HYF4** *
¾ in	2 in	Malleable Iron	500	Anvil	**4HYF5**
	2 in	Malleable Iron	500	Anvil	**4HYF6** *
Wide Mouth C-Clamp with Setscrew and Locknut					
⅜ in	1 ¾ in	Ductile Iron	250 at Bottom, 500 at Top	Anvil	**4HYE8**
½ in	1 ¾ in	Ductile Iron	760 at Bottom, 950 at Top	Anvil	**4HYE9**
⅝ in	2 in	Ductile Iron	1,200	Anvil	**4HYG6**
	2 in	Ductile Iron	1,200	Anvil	**4HYG7** *
¾ in	2 in	Ductile Iron	1,600	Anvil	**4HYG8**
	2 in	Ductile Iron	1,600	Anvil	**4HYG9** *
Channel-to-Beam Clamp					
⅜ in	3 ⅜ in	Zinc Galvanized Steel	1200 Per Pair	nVent Caddy	**1XJR4**
¼ in	—	Zinc Galvanized Steel	1,200	—	**22FP82**
Multiflange Beam Clamps					
¼ in	3 ¼ in	Electro-Galvanized Steel	C and Z Purlins 200 and Flat Flanges 160	nVent Caddy	**1RVG3**
⅜ in	3 ¼ in	Electro-Galvanized Steel	C and Z Purlins 200 and Flat Flanges 160	nVent Caddy	**1RVG4**
Purlin Clamp					
⅜ in	2 in	Cast Iron	400	nVent Caddy	**1RUY7**
	3 in	Malleable Iron	400	—	**22FP83**
Beam Clamp Straps					
⅜	8 in	Pre-Galvanized Steel	—	nVent Caddy	**1RUR6**
or	10 in	Pre-Galvanized Steel	—	nVent Caddy	**1RUR7**
½ in	12 in	Pre-Galvanized Steel	—	nVent Caddy	**1RUR8**

* Zinc-plated finish.

Redi-Clamp®
4NWP2

Full Circle
4NWT8

Pipe Repair Clamps

Use to repair pipe without dismantling connections and to join pipes without threaded connections. Have 304 stainless steel band and Nitrile gasket.

Redi-Clamp—Use for repairing pinhole leaks, punctures, and splits. Drop-in bolts allow easy installation. Ductile iron lugs and carbon steel nuts and bolts.

Full Circle—Fabricated stainless steel lugs can be installed in tight spaces and may be used to join plain pipe of the same diameter. 304 stainless steel stud bolts. Single-band clamps have 360° gasket seal for support, and a "keeper bar" that helps close clamp during installation. Steel nuts and bolts.

	Redi-Clamp			
Pipe Size	3 in Length Item No.	6 in Length Item No.	9 in Length Item No.	12 in Length Item No.
¾"	4NWP2	—	—	—
1"	—	4NWP3	—	—
1½"	4NWP4	4NWP5	—	—
2"	4NWP6	4NWP7	4NWP8	4NWP9
3"	4NWR1	4NWR2	4NWR3	4NWR4
4"	4NWR5	4NWR6	4NWR7	4NWR8
6"	4NWR9	4NWT1	4NWT2	4NWT3
8"	4NWT4	4NWT5	4NWT6	4NWT7

	Full Circle, Fabricated Stainless Steel Lugs			Full Circle, Single Band Ductile Lugs		
Pipe Size	7 ½ in Length Item No.	12 ½ in Length Item No.	15 in Length Item No.	7 ½ in Length Item No.	12 ½ in Length Item No.	15 in Length Item No.
2"	4NWT8	5LGJ6	4NWT9	4NWN1	5LGK7	4NWN2
3"	4NWU1	5LGJ7	4NWU2	4NWN3	5LGK8	4NWN4
4"	4NWU3	5LGJ8	4NWU4	4NWN5	5LGK9	4NWN6
6"	4NWU5	5LGJ9	4NWU6	4NWN7	5LGL0	4NWN8
8"	4NWU7	5LGK0	4NWU8	4NWN9	5LGL1	4NWP1
10"	5LGK1	5LGK2	5LGK3	5LGL2	5LGL3	5LGL4
12"	5LGK4	5LGK5	5LGK6	5LGL5	5LGL6	5LGL7

Two Bolt
24T954

Single Bolt
24T944

304 Stainless Steel Pipe Repair Clamps

For safe repair of cold and hot water lines. Clamps provide a positive seal and have plated malleable iron lugs and a neoprene gasket, except 3- and 4-Bolt Clamps have a gridded Buna N gasket. All models are tagged with pipe size.

Pipe Size (in.)	Bolt Size (in.)	Item No.
Single Bolt - 3" Length		
⅜		24T944
½		24T945
¾	⅜ x 3	24T946
1		24T947
1¼		24T948
1½		24T949
2		24T950
2½	⅜ x 4	24T951
3		24T952
4		24T953
Two Bolt - 6" Length		
½		24T954
¾		24T955
1	⅜ x 3	24T956
1¼		24T957
1½		24T958
2		24T959
2½	⅜ x 4	24T960
3		24T961
4		24T962

Pipe Size (in.)	Bolt Size (in.)	Item No.
Three Bolt - 9" Length		
¾		5WMP4
1	⅜	5WMP6
1¼		5WMP8
1½		5WMR0
2		5WMR2
2½		5WMR4
3		5WMR8
3½	7⁄16	5WMR6
4		5WMT0
5		5WMT2
6		5WMT6
Four Bolt - 12" Length		
1		5WMP5
1¼	⅜	5WMP7
1½		5WMP9
2		5WMR1
2½		5WMR3
3		5WMR5
4	7⁄16	5WMR9
5		5WMT1
6		5WMT3
8		5WMT7

Single, Weld Plate
2UKP6

Twin, Weld Plate
2UKR9

Mounting Rail
2UKW5

ZSI

Weld-Plate and Rail-Mount Vibration Reduction Clamps

- Max. pressure: 1500 psi
- Temp. range: -22° to 194°F

Easy-to-assemble clamps are welded in place or rail mounted to secure hoses, piping, and tubing. Ribs in clamp bore and polypropylene cushioning reduce wear due to vibration, rubbing, and chafing. Meet ASSE standards.

Smooth Bore, Single—Chamfered, smooth core helps to reduce wear and extend the life of hoses.

Single Clamps—Recommended for systems without dynamic loads.

Twin Clamps—Ideal for general-duty applications subject to moderate levels of shock and vibration.

Single Line, Rail-Mount—Use with steel mounting rail 2UKW5 (sold separately) to install multiple clamps side-by-side. Once mounted, clamps can be slid along rail for proper alignment.

FOR HOSE

Hose Size	L	W	H	Item No.
Smooth Bore, Single, Weld Plate				
Steel Hardware				
81/100 in	1.96 in		1.61 in	2UKW8
93/100 in	1.96 in	1.2 in	1.61 in	2UKW9
1 1⁄10 in	2.28 in		1.88 in	2UKX1
1 21/50 in	2.75 in		2.52 in	2UKX2

FOR TUBE

Tube Size	L	W	H	Item No.
Single, Weld Plate				
Steel Hardware				
¼ in	1.41 in		1.25 in	2UKP1
⅜ in	1.41 in		1.25 in	2UKP2
½ in	1.65 in		1.54 in	2UKP3
⅝ in	1.65 in		1.54 in	2UKP4
¾ in	2.04 in	1.2 in	1.61 in	2UKP5
⅞ in	2.04 in		1.61 in	2UKP6
1 in	2.04 in		1.61 in	2UKP7
1 ¼ in	2.83 in		2.52 in	2UKP8
1 ½ in	2.83 in		2.52 in	2UKP9
2 in	3.46 in		2.83 in	2UKR1
Stainless Steel Hardware				
⅜ in	1.41 in		1.25 in	2UKL9
½ in	1.65 in	1.2 in	1.54 in	2UKN2
¾ in	2.04 in		1.61 in	2UKN4
1 in	2.04 in		1.61 in	2UKN5
Single Line, Rail-Mount				
Steel Hardware				
½ in	1.65 in		1.54 in	2UKU8
¾ in	2.04 in		1.61 in	2UKV1
1 in	2.04 in	1.2 in	1.61 in	2UKV3
1 ½ in	2.83 in		2.52 in	2UKV5
2 in	3.46 in		2.83 in	2UKV6

FOR TUBE

Tube Size	L	W	H	Item No.
Twin, Weld Plate				
Steel Hardware				
¼ in	1.45 in		1.69 in	2UKR9
⅜ in	1.45 in		1.69 in	2UKT1
½ in	2.16 in		1.71 in	2UKT2
⅝ in	2.16 in		1.71 in	2UKT3
¾ in	2.75 in	1.2 in	2.14 in	2UKT4
⅞ in	2.75 in		2.14 in	2UKT5
1 in	2.75 in		2.14 in	2UKT6
1 ¼ in	4.33 in		2.81 in	2UKT7
1 ½ in	4.33 in		2.81 in	2UKT8

FOR PIPE

Pipe Size	L	W	H	Item No.
Single, Weld Plate				
Steel Hardware				
½ in	2.04 in		1.61 in	2UKR4
¾ in	2.36 in		1.88 in	2UKR5
1 in	2.83 in	1.2 in	2.52 in	2UKR6
1 ¼ in	2.83 in		2.52 in	2UKR7
1 ½ in	3.46 in		2.83 in	2UKR8
Stainless Steel Hardware				
½ in	1.96 in	1.2 in	1.61 in	2UKN8
¾ in	2.28 in		1.88 in	2UKN9
Single Line, Rail-Mount				
Steel Hardware				
½ in	2.04 in		1.61 in	2UKV9
¾ in	2.36 in		1.88 in	2UKW1
1 in	2.83 in	1.2 in	2.52 in	2UKW2
1 ¼ in	2.83 in		2.52 in	2UKW3
1 ½ in	3.46 in		2.83 in	2UKW4
Twin, Weld Plate				
Steel Hardware				
½ in	2.75 in	1.2 in	2.14 in	2UKU2
¾ in	3.34 in		2.34 in	2UKU3

L	W	H	Item No.
Mounting Rails			
39 in	28 mm	11 mm	2UKW5

Double, Stacking
4TLA3

Twin, Weld Plate
4WFZ3

Single, Bolt Plate
4TKW1

Pipe Clamps and Supports BEHRINGER®

Use to secure tubing and pipe, while reducing noise and vibration.

Bolt Plate Mounting—Include a base plate with bolt holes to secure clamp.

Rail Mounting—Can be mounted directly to a single channel using rail nuts.

Weld Plate Mounting—Clamps include weld plate for welding directly to the support structure.

Single and Double Clamps with Santoprene Insert—Smooth bore helps prevent bacteria and debris from collecting; also dampens and absorbs vibration. For high-purity and wash-down applications.

Single Clamps with Polypropylene Insert—Heavy-duty clamps withstand shock and vibration of hydraulic systems up to 5000 psi.

Twin Clamps with Polypropylene Insert—Use to manage multiple lines; withstand shock and vibration of hydraulic systems to 1500 psi.

Tube Size	FOR TUBE L	FOR TUBE W	FOR TUBE H	Item No.
Double, Stacking — Santoprene Insert				
316 Stainless Steel Hardware				
1"	3.34"		2.63"	4TKZ5
2"	3.34"		2.63"	4TLA3
2"	5.0"	1.22"	4.38"	4TLA4
2½"	5.0"		4.38"	4TLA6
3"	5.0"		4.38"	4TLA8
Single, Bolt Plate — Santoprene Insert				
316 Stainless Steel Hardware				
¼"	4.88"		2.88"	4TKW5
⅜"	4.88"		2.88"	4TKW6
½"	3.5"		1.63"	4TKW1
½"	4.88"		2.88"	4TKW7
⅝"	4.88"		2.88"	4TKW8
¾"	3.5"		1.63"	4TKW2
¾"	4.88"		2.88"	4TKW9
⅞"	4.88"		2.88"	4TKX2
1"	3.5"	1.22"	1.63"	4TKW4
1"	4.88"		2.88"	4TKX3
1¼"	4.88"		2.88"	4TKX5
1½"	4.88"		2.88"	4TKX7
2"	4.88"		2.88"	4TKY1
2"	6.5"		4.63"	4TKY2
2½"	6.5"		4.63"	4TKY4
3"	6.5"		4.63"	4TKY6
4"	7.19"		5.05"	4TKY8
Single, Rail Mount — Polypropylene Insert				
304 Stainless Steel Hardware				
¼"	2.25"		1.69"	4WFR5
⅜"	2.25"		1.69"	4WFR6
½"	2.25"		1.69"	4WFR8
⅝"	2.25"		1.69"	4WFT1
¾"	2.75"	1.25"	2.19"	4WFT3
⅞"	2.75"		2.19"	4WFT6
1"	2.75"		2.19"	4WFT7
1¼"	3.34"		2.69"	4WFU1
1½"	3.34"		2.69"	4WFU3
2"	4.5"	1.75"	3.88"	4WFU7
2¾"	4.5"		3.88"	4WFV3
30-mm	2.75"	1.25"	2.19"	4WFT9
Carbon Steel Hardware				
⅜"	2.25"		1.69"	4WFG9
½"	2.25"		1.69"	4WFH2
¾"	2.75"		2.19"	4WFH6
⅞"	2.75"	1.25"	2.19"	4WFH9
1"	2.75"		2.19"	4WFJ1
1¼"	3.34"		2.69"	4WFJ4
1½"	3.34"		2.69"	4WFJ6
2⅛"	4.5"		3.88"	4WFK2
2¼"	4.5"	1.75"	3.88"	4WFK3
2½"	4.5"		3.88"	4WFK5
2¾"	4.5"		3.88"	4WFK6
20-mm	2.75"	1.25"	2.19"	4WFH7
3"	6.0"	2.25"	5.13"	4WFK8

Tube Size	FOR TUBE L	FOR TUBE W	FOR TUBE H	Item No.
Single, Weld Plate — Polypropylene Insert				
304 Stainless Steel Hardware				
1"	3.38"	1.25"	1.5"	4WFN3
1¼"	4.0"		3.0"	4WFN6
1¾"	5.88"	1.75"	4.25"	4WFP1
2⅛"	5.88"		4.25"	4WFP4
3"	7.38"	2.25"	5.5"	4WFR1
4"	10.0"	3.0"	7.63"	4WFR3
Carbon Steel Hardware				
¼"	2.88"		2.0"	4TLC1
⅜"	2.88"		2.0"	4WFD5
½"	2.88"		2.0"	4WFD7
⅝"	2.88"		2.0"	4WFD9
¾"	3.38"	1.25"	1.5"	4WFE2
⅞"	3.38"		1.5"	4WFE5
1"	3.38"		1.5"	4WFE6
1¼"	4.0"		3.0"	4WFE9
1½"	4.0"		3.0"	4WFF2
1¾"	5.88"		4.25"	4WFF4
2"	5.88"		4.25"	4WFF6
2¼"	5.88"	1.75"	4.25"	4WFF8
2½"	5.88"		4.25"	4WFG1
2¾"	5.88"		4.25"	4WFG2
3½"	7.38"	2.25"	5.5"	4WFG5
4½"	10.0"	3.0"	7.63"	4WFG7
20-mm	3.38"	1.25"	1.5"	4WFE3
3"	7.38"	2.25"	5.5"	4WFG4
30-mm	3.38"	1.25"	1.5"	4WFE8
Single, Weld Plate — Santoprene Insert				
316 Stainless Steel Hardware				
½"	3.34"		2.88"	4TKT7
1"	3.34"		2.88"	4TKU3
1½"	3.34"	1.22"	2.88"	4TKU7
2"	3.34"		2.88"	4TKV1
3"	5.0"		4.63"	4TKV6
Twin, Weld Plate — Polypropylene Insert				
304 Stainless Steel Hardware				
⅜"	2.19"		1.44"	4WFZ2
½"	2.19"	1.19"	1.44"	4WFZ3
¾"	2.69"		1.94"	4WFZ6
Zinc-Plated Hardware				
¼"	2.19"		1.44"	4WFV7
⅜"	2.19"		1.44"	4WFV8
½"	2.19"		1.44"	4WFV9
¾"	2.69"		1.94"	4WFW3
⅞"	2.69"	1.19"	1.94"	4WFW5
1"	2.69"		1.94"	4WFW6
1⅛"	3.19"		2.19"	4WFW8
1¼"	4.06"		2.69"	4WFW9
1½"	4.06"		2.69"	4WFX2

49AG22

Anti-Corrosion Tube Clamps STAUFF®

- Max. pressure: 2000 psi
- Temp. range: -13° to 194°F

Feature corrosion-resistant 316 stainless steel material with a clamp body that's flame-retardant, UV-stabilized construction. Designed to reduce the effects of pipe corrosion and have drainage channels to aid in water dispersal. Meet API RP 552, NACE SP 0108-2008, dimensional standards to DIN 3015-1, and fully interchangeable.

Tube Size	L	W	H	Item No.
Anti-Corrosion Strut Mount Standard Clamp				
¼ in	1.54 in	1.54 in	1.4 in	49AG22
⅜ in	1.54 in	1.54 in	1.4 in	49AG24
½ in	1.77 in	1.77 in	1.63 in	49AG27
¾ in	2.05 in	2.05 in	1.75 in	49AG33
1 in	2.05 in	2.05 in	1.75 in	49AG37
1 ½ in	2.8 in	2.8 in	2.62 in	49AG43
12 mm	1.54 in	1.54 in	1.4 in	49AG26
25 mm	2.05 in	2.05 in	1.75 in	49AG36
Anti-Corrosion Strut Mount Twin Clamp				
¼ in x ¼ in	1.42 in	1.42 in	1.55 in	49AG58
⅜ in x ⅜ in	1.42 in	1.42 in	1.55 in	49AG59
½ in x ½ in	2.09 in	2.09 in	1.61 in	49AG62
1 in x 1 in	2.64 in	2.64 in	2.01 in	49AG68
Anti-Corrosion Weld Mount Standard Clamp				
¼ in	1.46 in	1.46 in	1.46 in	49AF97
⅜ in	1.46 in	1.46 in	1.46 in	49AF99
½ in	1.65 in	1.65 in	1.69 in	49AG03
9⁄16 in	1.65 in	1.65 in	1.69 in	49AG05

Tube Size	L	W	H	Item No.
⅝ in	1.65 in	1.65 in	1.69 in	49AG07
¾ in	1.97 in	1.97 in	1.81 in	49AG09
1 in	1.97 in	1.97 in	1.81 in	49AG13
1 ¼ in	2.8 in	2.8 in	2.68 in	49AG17
1 ½ in	2.8 in	2.8 in	2.68 in	49AG19
12 mm	1.46 in	1.46 in	1.46 in	49AG02
15 mm	1.65 in	1.65 in	1.69 in	49AG06
18 mm	1.65 in	1.65 in	1.69 in	49AG08
20 mm	1.97 in	1.97 in	1.81 in	49AG10
25 mm	1.97 in	1.97 in	1.81 in	49AG12
30 mm	2.36 in	2.36 in	2.05 in	49AG16
35 mm	2.8 in	2.8 in	2.68 in	49AG18
Anti-Corrosion Weld Mount Twin Clamp				
¼ in x ¼ in	1.46 in	1.46 in	1.61 in	49AG46
⅜ in x ⅜ in	1.46 in	1.46 in	1.61 in	49AG47
½ in x ½ in	2.17 in	2.17 in	1.73 in	49AG50
¾ in x ¾ in	2.76 in	2.76 in	2.13 in	49AG53

Alpha Series Cushioned U-Bolts ZSi

4MWE5

Zinc-plated steel, full-contact hangers provide total load distribution and eliminate knife-edge loading. Bolts prevent lateral movement and provide a positive lock.

For Pipe Size	Max. Load (lb.)	Inside Width	Steel Item No.	316 Stainless Steel Item No.
½ in	485	1 23⁄64 in	4MWE9	4MWF1
¾ in	485	1 35⁄64 in	4MWG7	4MWG8
1 in	485	1 51⁄64 in	4MWE5	4MWE6
1 ½ in	1,220	2 7⁄16 in	4MWF2	4MWF3
1 ¼ in	1,220	2 3⁄16 in	4MWF4	4MWF5
2 in	1,220	2 3⁄16 in	4MWG1	—
2 in	1,220	2 63⁄64 in	—	4MWG2
2 ½ in	2,260	3 ⅜ in	4MWG3	4MWG4
3 in	2,260	4 in	4MWG5	4MWG6
3 ½ in	2,260	4 ½ in	4MWG9	4MWH1
4 in	2,260	5 in	4MWH2	4MWH3
5 in	2,260	6 1⁄16 in	4MWH4	4MWH5
6 in	3,620	7 5⁄32 in	4MWH6	4MWH7
8 in	3,620	9 7⁄32 in	4MWJ1	4MWJ2

3KHN8

3KHL4

Pipe Size	PTFE Item No.	PVC Item No.	Polyethylene Item No.
½ in	3KHL6	3KHL5	3KHL4
¾ in	3KHL9	3KHL8	3KHL7
1 in	3KHN3	3KHN2	3KHN1
1 ½ in	3KHN6	3KHN5	3KHN4
2 in	3KHN9	3KHN8	3KHN7
3 in	3KHP3	3KHP2	3KHP1
4 in	9MJU2	3KHP5	3KHP4
6 in	3KHP9	3KHP8	3KHP7
8 in	3KHR3	3KHR2	3KHR1
10 in	3KHR6	3KHR5	3KHR4
12 in	3KHR9	3KHR8	3KHR7

Safety Spray Shields

- ANSI Class #150

Totally enclose flange for complete spray protection. Shields are UV and chemical resistant. Install with hook-and-loop fasteners and drawstrings.

PTFE

- Max. temp.: 450°F

Constructed of 3-ply multilayered reinforced PTFE-coated glass cloth, PTFE thread, and drawstring. PTFE stiffener lines the inside for additional protection. Include pH indicating patch.

PVC

- Max. temp.: 170°F

Constructed of reinforced yellow polyvinyl chloride cloth, white polyester thread, and drawstring. Include pH indicating patch.

POLYETHYLENE

- Max. temp.: 170°F

Constructed of transparent reinforced polyethylene cloth, white polyethylene thread, and drawstring.

Fiberglass Pipe Insulation

Approved Vendor Pipe Fitting Insulation—Preformed fiberglass insulation for 90° elbows and tees eases installation and provides for greater thermal performance. Includes matching PVC cover. Installs with 1" Pipe Fitting Insulation Tape 6WXE4, sold separately. Use 3" Pipe Insulation Tape 4LFJ3 to seal butt joints. Insulation meets ASTM C547 and C300 Series.

- Application temp. range: 0° to 450°F
- White color

Owens Corning Fiberglas Pipe Insulation—The pressure sensitive adhesive system features a self-sealing flap to ease installation. GREENGUARD Certified.

- 3-ft. lengths
- Service temp. range: 0° to 1000°F
- White color jacket

Owens Corning ASJ Max Fiberglas Pipe Insulation—Cleanable, encapsulated paper jacket doesn't support mildew or mold growth. Jacket resists moisture during intermittent, short duration precipitation exposure during installation (with joints sealed per installation guidelines). SSL Max closure system provides a tight, reliable seal without glue or staples. Certified by SCS Global Services to contain a minimum of 53% recycled glass content, 31% pre-consumer and 22% post-consumer. GREENGUARD Gold Certified. Meets UL 723, ASTM E84, and CAN/ULC S-102, ASTM C547, and ASTM C1136, Types I – IV.

- 3-ft. lengths
- Service temp. range: 0° to 1000°F (with heat-up schedule)
- White color

Owens Corning 3"-Wide Pipe Insulation Tape—Seals end joints and completes the closure systems.

- Service temp. range: 25° to 110°F (ambient)
- Service temp. range: -20° to 150°F
- White color jacket

4LFC9

4LFJ3

MINIMUM QUANTITY OF 3" WIDE ASJ TAPE ROLLS REQUIRED

Iron Pipe or Copper Tube Size (in.)	No. of Sections per 25-ft. Roll	No. of Sections per 150-ft. Roll
½ to 1⅜	up to 10	up to 60
1½ to 3⅛	up to 8	up to 48
4 to 6	up to 5	up to 30

Example: 15 sections of 1.0" nominal pipe size would require two 25-ft. rolls of tape.

Insulation Nominal I.D.	Copper Tube Size (Nom. I.D. Plumbing)	Copper Tube Size (O.D. HVAC/R)	90° Elbow Wall Thickness - Insulation 1" Item No.	1½" Item No.	2" Item No.	Tee Wall Thickness - Insulation 1" Item No.	1½" Item No.	2" Item No.
Approved Vendor—Pipe Fitting Insulation								
½"	—	—	6WYC7	6MPW7	6MPX7	6MRC3	6MRD3	6MRE3
⅝"	½"	⅝"	6MPY7	6MPZ6	—	6MRF3	6MRG2	—
¾"	—	—	6WYC8	6MPW8	6MPX8	6MRC4	6MRD4	6MRE4
⅞"	¾"	⅞"	6MPY8	6MPZ7	6MRA5	6MRF4	6MRG3	6MRH1
1"	—	—	6WYC9	6MPW9	6MPX9	6MRC5	6MRD5	6MRE5
1⅛"	1"	1⅛"	6MPY9	6MPZ8	6MRA6	6MRF5	6MRG4	6MRH2
1¼"	—	—	6WYD0	6MPX0	6MPY0	6MRC6	6MRD6	6MRE6
1⅜"	1¼"	1⅜"	6MPZ0	6MPZ9	6MRA7	6MRF6	6MRG5	6MRH3
1½"	—	—	6WYD1	6MPX1	6MPY1	6MRC7	6MRD7	6MRE7
1⅝"	1½"	1⅝"	6MPZ1	6MRA0	6MRA8	6MRF7	6MRG6	6MRH4
2"	—	—	6WYD2	6MPX2	6MPY2	6MRC8	6MRD8	6MRE8
2⅛"	2"	2⅛"	6MPZ2	6MRA1	6MRA9	6MRF8	6MRG7	6MRH5
2½"	—	—	6WYD3	6MPX3	6MPY3	6MRC9	6MRD9	6MRE9
2⅝"	2½"	2⅝"	6MPZ3	6MRA2	6MRC0	6MRF9	6MRG8	6MRH6
3"	—	—	6WYD4	6MPX4	6MPY4	6MRD0	6MRE0	6MRF0
3⅛"	3"	3⅛"	6MPZ4	6MRA3	6MRC1	6MRG0	6MRG9	6MRH7
4"	—	—	6WYD5	6MPX5	6MPY5	6MRD1	6MRE1	6MRF1
4⅛"	4"	4⅛"	6MPZ5	6MRA4	6MRC2	6MRG1	6MRH0	6WXE3
5"	—	—	6MPW6	6MPX6	6MPY6	6MRD2	6MRE2	6MRF2

Fits Pipe Size - Pipe Insulation	Fits Tube Size	Insulation Nominal I.D.	Wall Thickness - Insulation ½ in Item No.	1 in Item No.	1 ½ in Item No.	2 in Item No.
Owens Corning—Fiberglas Pipe Insulation						
¾"	1⅛"	1 9/64"	40PP22	—	—	—
1"	1⅜"	1 25/64"	40PP32	—	—	—
1¼"	1⅝"	1 11/16"	40PP33	—	—	—
1½"	2⅛"	2 5/32"	40PP18	—	—	—
3"	3½"	3 17/32"	—	—	—	40PP20
Owens Corning—ASJ MAX Fiberglas Pipe Insulation						
⅜"	⅝"	⅝"	—	4LFG6	4LFH2	—
½"	⅞"	⅞"	—	4LFC9	4LFE2	4LFF4
¾"	1⅛"	1 9/64"	—	4LFD1	4LFE3	4LFF5
1"	1⅜"	1 25/64"	—	4LFD2	4LFE4	4LFF6
1¼"	1⅝"	1 11/16"	—	4LFD3	4LFE5	4LFF7
1½"	—	1 59/64"	—	4LFD4	4LFE6	4LFF8
—	2⅛"	2 5/32"	—	4LFG7	4LFH3	4LFH7
2"	—	2 13/32"	—	4LFD5	4LFE7	4LFF9
—	2⅝"	2 21/32"	—	4LFG8	4LFH4	4LFH8
2½"	—	2 29/32"	—	4LFD6	4LFE8	4LFG1
—	3⅛"	3 5/32"	—	4LFG9	4LFH5	4LFH9
3"	—	3 17/32"	—	4LFD7	4LFE9	—
—	4⅛"	4 5/32"	—	4LFH1	4LFH6	4LFJ1
4"	—	4 17/32"	—	4LFD8	4LFF1	4LFG3
5"	—	5 41/64"	—	4LFD9	4LFF2	4LFG4
6"	—	6 45/64"	—	4LFE1	4LFF3	4LFG5
10"	—	10"	—	—	4LFG2	—

Description	Temp. Range	Item No.
Owens Corning—3"-Wide Pipe Insulation Tape		
3" x 150-ft. Roll	0 to 150°F	4LFJ3

Fiberglass Pipe Insulated Fitting Covers and Insulated Jacketing

- White color

Easily fit around pipe to create a protective barrier. Suitable for indoor or outdoor use on chilled water, hot water, steam and other piping systems in commercial, industrial, and institutional applications. Insulated Fitting Covers, when combined with Insulated Jacketing and PVC solvent cement (sold on page 2822), can form a sealed system suitable for washdown applications in food, beverage, and pharmaceutical facilities. Comply with ASTM D257, D638, D790, D792, D1784, D3679, E84, E136; USDA, ICBO, SBCCI, and BOCA.

FIBERGLASS INSULATED FITTING COVERS

- Temp. range: -32° to 150°F
- R-value: 3.5

Fit over bare pipe elbows; include insert. PVC and fiberglass construction.

PVC INSULATED PIPE JACKET

- 4-ft. lengths
- Temp. range: -30° to 150°F

Fits over bare pipes and pipe insulation. PVC construction.

Fits Max. O.D.	Approx. R Value	90° Elbow Item No.	End Cap Item No.	Tee Item No.
Fiberglass Insulated Fitting Covers				
1 ½ in	3.5	6TEE0	6TEF9	6TEC1
2 in		6TEE1	6TEG0	6TEC2
2 ¼ in		6TEE2	6TEG1	6TEC3
2 ½ in		6TEE3	6TEG2	6TEC4
2 ¾ in		6TEE4	6TEG3	6TEC5
3 in		6TEE5	6TEG4	6TEC6
3 ¼ in		6TEE6	6TEG5	6TEC7
3 ⅝ in		6TEE7	6TEG6	6TEC8
4 in		6TEE8	6TEG7	6TEC9
4 ½ in		6TEE9	6TEG8	6TED0
5 ⅛ in		6TEF0	6TEG9	6TED1
5 ⅝ in		6TEF1	6TEH0	6TED2
6 ⅛ in		6TEF2	6TEH1	6TED3
6 ⅝ in		6TEF3	6TEH2	6TED4
7 ⅛ in		6TEF4	6TEH3	6TED5
7 ⅝ in		6TEF5	6TEH4	6TED6
8 ⅝ in		6TEF6	6TEH5	6TED7
9 ⅝ in		6TEF7	6TEH6	6TED8
10 ¾ in		6TEF8	6TEH7	6TED9

Fits Max. O.D.	Thickness	Item No.
PVC Insulated Pipe Jacket		
2 in	0.02	6TEH8
2 ½ in		6TEH9
3 in		6ZKJ1
3 ½ in		6ZKJ2
4 in		6ZKJ3
4 ½ in		6ZKJ4
5 in		6ZKJ5
5 ½ in		6ZKJ6
6 in		6ZKJ7
6 ½ in		6ZKJ8
7 ½ in		6ZKJ9
8 ½ in		6ZKK0
9 ½ in		6ZKK1
10 ¾ in		6ZKK2

6TEE0

6ZKJ3

K-FLEX USA

Flexible Elastomeric (Rubber) Closed-Cell Pipe Insulation

PIPE INSULATION

- 6-ft. lengths

Elastomeric material retards heat loss, prevents condensation, and provides effective moisture vapor resistance. Environmentally friendly and CFC-free. Mold- and mildew-resistant, fiber-free, and nondusting. Can be used in underground applications above the water table. Seal before back-filling. Meets ASTM C 411, C 534 Type 1, D 1056-00-2B1, and E 84 2" 25/50 tested according to UL 723 and NFPA 255. CAN/ULC S102-M88, FMRC 2006 Approval Guide Chapter 14, NFPA 90A Sect. 2.3.3, and FM Approved. Meets UL 94-5V Flammability Classification (Recognition E300774) and UL 181 Sections 11.0 and 16.0.

Insul-Tube

- Temp. range: -297° to 220°F
- MIL-P-15280, for tubing

Unslit tubing can be slit lengthwise and fit over existing pipes. Seal with 3F417 contact adhesive, see page 2835.

Insul-Lock DS (Double Seal)

- Temp. range: -70° to 220°F

Preslit, preglued tubing has factory-applied pressure-sensitive adhesive on the seam, plus flexible PVC overlap tape with acrylic adhesive for added security.

FITTING INSULATION

- Temp. range: -297° to 220°F

K-Fit prefabricated insulation is easier to install and provides a cleaner appearance than field-constructed insulation. Designed to fit over elbows and tees with no additional cutting or molding. Can be used for hot/cold water, chilled water, refrigeration, and air conditioning applications. Meets UL 94 and GREENGUARD Certified.

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	INSUL-TUBE ⅜ in Wall Thickness Item No.	INSUL-TUBE ½ in Wall Thickness Item No.	INSUL-TUBE ¾ in Wall Thickness Item No.	INSUL-TUBE 1 in Wall Thickness Item No.
Pipe Insulation - Unslit						
⅝ in	⅝ in	⅜ in	3F399	3F404	3F409	1WZF3
¾ in	¾ in	—	—	1WZC8	1WZE1	1WZF4
⅞ in	⅞ in	½ in	3F400	3F405	3F410	1WZF5
1 ⅛ in	1 ⅛ in	¾ in	3F401	3F406	3F411	1WZF6
1 ⅜ in	1 ⅜ in	1 in	3F402	3F407	3F412	1WZF7
1 ⅝ in	1 ⅝ in	1 ¼ in	3F403	3F408	3F413	1WZF8
2 in	—	1 ½ in	—	1WZC9	1WZE2	1WZF9
2 ⅛ in	2 ⅛ in	—	—	1WZD1	1WZE3	1WZG1
2 ⅜ in	—	2 in	—	1WZD2	1WZE4	1WZG2
2 ⅝ in	2 ⅝ in	—	—	1WZD3	1WZE5	1WZG3
2 ⅞ in	—	2 ½ in	—	1WZD4	1WZE6	1WZG4
3 ⅛ in	3 ⅛ in	—	—	1WZD5	1WZE7	1WZG5
3 ½ in	—	3 in	—	1WZD6	1WZE8	1WZG6
3 ⅝ in	3 ⅝ in	—	—	1WZD7	1WZE9	1WZG7
4 ⅛ in	4 ⅛ in	3 ½ in	—	1WZD8	1WZF1	1WZG8
4 ½ in	—	4 in	—	1WZD9	1WZF2	1WZG9

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	INSUL-LOCK DS (DOUBLE SEAL) ½ in Wall Thickness Item No.	INSUL-LOCK DS (DOUBLE SEAL) ¾ in Wall Thickness Item No.	INSUL-LOCK DS (DOUBLE SEAL) 1 in Wall Thickness Item No.
Pipe Insulation - Pre-Slit/Pre-Glued with Overflap					
⅝"	⅝ in	⅜ in	40PN71	40PN75	—
⅝"	⅝ in	⅝ in	—	—	40PP15
¾"	¾ in	—	40PN84	40PN98	40PN89
⅞"	⅞ in	½ in	40PN93	40PP13	40PN79
1⅛"	1 ⅛ in	¾ in	40PN95	40PN96	40PN73
1⅜"	1 ⅜ in	1 in	40PN82	40PN83	40PP09
1⅝"	1 ⅝ in	1 ¼ in	40PN88	40PP02	40PN69
2"	—	1 ½ in	40PN81	40PN70	40PP12
2⅛"	2 ⅛ in	—	40PP10	40PP08	40PN78
2⅜"	—	2 in	40PP11	40PN80	40PN90
2⅝"	2 ⅝ in	—	40PN72	40PN85	40PN77
2⅞"	—	2 ½ in	40PP01	40PP14	40PN74
3⅛"	3 ⅛ in	—	40PN86	40PN87	40PP16
3½"	—	3 in	40PN99	40PP03	40PN92
3⅝"	3 ⅝ in	—	40PP06	40PN94	40PP05
4⅛"	4 ⅛ in	3 ½ in	40PN97	40PN76	40PN68
4½"	—	4 in	40PP04	40PP07	40PN91

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	90° ELBOW ½ in Wall Thickness Item No.	90° ELBOW ¾ in Wall Thickness Item No.	90° ELBOW 1 in Wall Thickness Item No.	TEE ½ in Wall Thickness Item No.	TEE ¾ in Wall Thickness Item No.	TEE 1 in Wall Thickness Item No.
Fitting Insulation, Black								
½ in	½ in	¼ in	—	—	4NRD2	—	—	—
⅝ in	⅝ in	⅜ in	4NPY6	4NRA4	4NRD3	4NRE9	4NRG5	4NRJ2
¾ in	¾ in	½ in	4NPY7	4NRA5	4NRD4	4NRF1	4NRG6	4NRJ3
⅞ in	⅞ in	—	4NPY8	4NRA6	4NRD5	4NRF2	4NRG7	4NRJ4
1 ⅛ in	1 ⅛ in	¾ in	4NPY9	4NRA7	4NRD6	4NRF3	4NRG8	4NRJ5
1 ⅜ in	1 ⅜ in	1 in	4NPZ1	4NRA8	4NRD7	4NRF4	4NRG9	4NRJ6
1 ⅝ in	1 ⅝ in	1 ¼ in	4NPZ2	4NRA9	4NRD8	4NRF5	4NRH1	4NRJ7
2 in	—	1 ½ in	4NPZ3	4NRC1	4NRD9	4NRF6	4NRH2	4NRJ8
2 ⅛ in	2 ⅛ in	—	4NPZ4	4NRC2	4NRE1	4NRF7	4NRH3	4NRJ9
2 ⅜ in	—	2 in	4NPZ5	4NRC3	4NRE2	4NRF8	4NRH4	4WLN4
2 ⅝ in	2 ⅝ in	—	4NPZ6	4NRC4	4NRE3	4NRF9	4NRH5	4WLN5
2 ⅞ in	—	2 ½ in	4NPZ7	4NRC5	4NRE4	4NRG1	4NRH6	—
3 ⅛ in	3 ⅛ in	—	4NPZ8	4NRC6	4NRE5	4NRG2	4NRH7	4WLN7
3 ½ in	—	3 in	4NPZ9	4NRC7	—	4NRG3	—	—
3 ⅝ in	3 ⅝ in	—	4NRA1	4NRC8	4NRE6	—	4NRH8	—
4 ⅛ in	4 ⅛ in	3 ½ in	4NRA2	4NRC9	4NRE7	4NRG4	4NRH9	4WLN9
4 ½ in	—	4 in	4NRA3	4NRD1	4NRE8	—	4NRJ1	4WLP1

Insul-Tube, Unslit
3F399

Insul-Lock DS (Double Seal)
40PN68

90° Elbow Insulation
4NPY6

Tee, Insulation
4NRE9

K-FLEX USA

Elastomeric Pipe Insulation

K-FLEX DUCT LINER

This fiber-free, closed-cell, flexible elastomeric foam insulation features sound absorption, moisture resistance, low thermal conductivity, and does not need additional facing. Its ideal for use as an acoustical/thermal insulation liner in industrial and commercial HVAC ducts.

K-FONIK AB NOISE ABSORBER

This flexible, open-cell sound absorber is made from recycled, closed-cell foam particles bonded together. Use to decrease transmission noise on large pipes in most industrial applications.

K-FLEX PIPE INSULATION TAPE

45AT32 has a pressure-sensitive adhesive that is ideal for insulating short pipe runs or valves where installing tubing insulation is not practical. 52JR59, 52JR61 and 52JR62 have a smooth and tough surface that's easy to clean and is weather-, UV-, and abuse-resistant. 52JR59 is ideal for outdoor use.

K-FLEX MOUNTING ACCESSORIES

Adhesives help provide a permanent flexible bond over a wide variety of substrates.

Duct Liner
45AR21

Thick.	Noise Reduction Coefficient (NRC)	W	Includes	Material	Color	Temp. Range	Item No.	Pkg. Qty.
K-FLEX Duct Liner								
35 ft								
1.5 in	0.55	48 in	Roll	NBR/PVC Based Elastomeric	Gray	-297° to 300°F	45AR21	1
50 ft								
1 in	0.55	48 in	Roll w/ PSA	NBR/PVC Based Elastomeric	Gray	-40° to 200°F	45AT06	1
		60 in	Roll	NBR/PVC Based Elastomeric	Gray	-297° to 220°F	45AT30	1
100 ft								
0.5 in	0.1	48 in	Roll	NBR/PVC Based Elastomeric	Gray	-297° to 220°F	45AT51	1
		56 ¼ in	Roll	NBR/PVC Based Elastomeric	Gray	-297° to 220°F	45AT10	1
		60 in	Roll	NBR/PVC Based Elastomeric	Gray	-297° to 300°F	45AR30	1

L	W	Includes	Material	Color	Temp. Range	Item No.	Pkg. Qty.
K-FONIK AB Noise Absorber							
78 in	59 in	Bun	NBR/PVC Based Elastomeric	Black	-40° to 185°F	45AR94	2
	59 in	—	PVC/NBR	Black	-40° to 185°F	45AR22	1
K-FLEX Pipe Insulation Tape							
30 ft	2 in	Pressure Sensitive Adhesive	Cork/Rubber	Black	-20° to 190°F	45AT32	1
	2 in	Pressure Sensitive Adhesive	NBR/PVC	Black	-40° to 220°F	45AT38	1
100 ft	2 in	—	Aluminum	Silver	-20 °F to 150 °F	52JR59	1
	2 in	—	PVC	White	-20 °F to 150 °F	52JR61	1
	4 in	—	PVC	White	-20 °F to 150 °F	52JR62	1
150 ft	3 in	Pressure Sensitive Adhesive, Release Liner	Aluminum	Silver	-31 °F to 248 °F	45AR45	1
	4 in	Pressure Sensitive Adhesive, Release Liner	Aluminum	Silver	-31 °F to 176 °F	45AT17	1

Description	Material	Curing Time	Color	Temp. Range	Item No.
K-FLEX Mounting Accessories					
Adhesive, 1 qt.	Polychloroprene	30 min.	Gray	30° to 220°F	45AR81
Caulk, 10 oz., 11 ¼ in L, For Use With Clad WT Jacketing					45AR87

Pipe Insulation Tape
45AT32

Adhesive
45AR81

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	¾ in Wall Thickness Item No.
K-Flex ECO Pipe Insulation			
⅝ in	⅝ in	⅜ in	4NPV4
⅞ in	⅞ in	½ in	4NPV5
1 ⅛ in	1 ⅛ in	¾ in	4NPV7
1 ⅜ in	1 ⅜ in	1 in	4NPV8
1 ⅝ in	1 ⅝ in	1 ¼ in	4NPV9
2 in	—	1 ½ in	4NPW1
2 ⅛ in	2 ⅛ in	—	4NPW2
2 ⅜ in	—	2 in	4NPW3

Insulation Sheet Size	½ in Wall Thickness Item No.	¾ in Wall Thickness Item No.	1 in Wall Thickness Item No.
K-Flex ECO Sheets			
36 in x 48 in	4NPW8	4NPW9	4NPX1

Flexible, Halogen-Free Elastomeric (Rubber) Pipe and Fitting Insulation

K-FLEX USA

- Temp. range: -297° to 250°F
- Green color

K-Flex ECO Pipe Insulation—Will not contribute to stress crack corrosion on high-temperature stainless steel applications. Can be used in solar hot water, low-pressure steam, food processing, cleanroom, and marine applications. Complies with IMO and Solas specifications. Meets stringent testing for U.S. Navy combat ships, as described in the Electric Boat Specifications EB 4013.

K-Flex ECO Sheets—Can be used for hot/cold water, chilled water, refrigeration, and air conditioning applications. Sheets can be cut to size for specific applications.

4NPW8

Flexible Tundra Polyolefin Pipe Insulation

armacell

- 6-ft. lengths

Help prevent heat gain and condensation or frost formation on water and air conditioning lines. Use with 320 or 620 contact adhesive or other approved sealing system. Polyethylene construction. Meet ASTM C 1427.

PRE-SLIT, BLACK

- Temp. range: -160° to 200°F

Quickly slide over pipe or tubing. Slit lengthwise when applying to existing tubes.

PRE-SLIT/PRE GLUED, BLACK

- Temp. range: -160° to 200°F

Tubing has factory-applied adhesive and built-in release tabs. Can be pushed around P-traps and elbows up to and including 1" copper tube size. Mitering is recommended for complex joints.

PRE-SLIT/PRE GLUED, WHITE

- Temp. range: -330° to 210°F
- FlowGuard Gold compatible

Ideal for use in cleanrooms, hospitals, and any application where pipes are exposed, and aesthetics are important. ASTM C 1427; ASTM E 84; ASTM E 84, 25/50 flame and smoke rating. CAN/ULC S102.2-M88. City of LA Report RR8316. Dade Co. FL Acceptance 95-1215.08. NYC MEA 305-93.

INSULATION SHEETS

- Temp. range: -330° to 210°F

Closed cell design and flexibility is ideal for wrapping large pipes, tanks and vessels. GREENGUARD certified for use in hospitals and schools. ASTM E 84, 25/50 flame and smoke rating.

Pre-Slit, Black
Pre-Slit/Pre Glued, Black
Pre-Slit/Pre Glued, White
Insulation Sheet, Black

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	⅜ in Wall Thickness Item No.	⅜" Wall Thickness Item No.	½ in Wall Thickness Item No.	½" Wall Thickness Item No.	¾ in Wall Thickness Item No.	¾" Wall Thickness Item No.	1 in Wall Thickness Item No.	1" Wall Thickness Item No.
Pre-Slit, Black										
⅝ in	⅝ in	⅜ in	—	2KUC5	—	2KUD8	—	2CKA9	—	—
¾ in	¾ in	½ in	—	—	—	2KUD9	—	2CKC1	—	2CKD7
⅞ in	⅞ in	½ in	—	2KUC6	—	2KUE1	—	2CKC2	—	—
1 ⅛ in	1 ⅛ in	¾ in	—	2KUC7	—	2KUE2	—	2CKC3	—	—
1 ⅝ in	1 ⅝ in	1 ¼ in	—	2KUD1	—	2KUE4	—	2CKC5	—	—
1 ⅜ in	1 ⅜ in	1 in	—	—	—	2KUE3	—	2CKC4	—	—
2 in	—	1 ½ in	—	2KUD2	—	2KUE5	—	2CKC6	—	2CKD8
2 ⅛ in	2 ⅛ in	—	—	2KUD3	—	2KUE6	—	2CKC7	—	2CKD9
2 ⅜ in	—	2 in	—	2KUD4	—	2KUE7	—	2CKC8	—	2CKE1
2 ⅝ in	2 ⅝ in	—	—	2KUD5	—	2CKA2	—	2CKC9	—	2CKE2
Pre-Slit/Pre Glued, Black										
⅜ in	⅜ in	⅛ in	2CKE7	—	2CKG5	—	2CKJ7	—	2CKL9	—
½ in	½ in	⅛ in	2CKE8	—	2CKG6	—	2CKJ8	—	2CKN1	—
⅝ in	⅝ in	⅜ in	2CKE9	—	2CKG7	—	2CKJ9	—	2CKN2	—
¾ in	¾ in	½ in	2CKF1	—	2CKG8	—	2CKK1	—	2CKN3	—
⅞ in	⅞ in	½ in	2CKF2	—	2CKG9	—	2CKK2	—	2CKN4	—
1 ⅛ in	1 ⅛ in	¾ in	2CKF4	—	2CKH2	—	2CKK4	—	2CKN6	—
1 ⅜ in	1 ⅜ in	1 in	2CKF6	—	2CKH4	—	2CKK6	—	2CKN8	—
1 ⅝ in	1 ⅝ in	1 ¼ in	2CKF7	—	2CKH5	—	2CKK7	—	2CKN9	—

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	⅜ in Wall Thickness Item No.	⅜" Wall Thickness Item No.	½ in Wall Thickness Item No.	½" Wall Thickness Item No.	¾ in Wall Thickness Item No.	¾" Wall Thickness Item No.	1 in Wall Thickness Item No.	1" Wall Thickness Item No.
2 in	—	1 ½ in	2CKF8	—	2CKH6	—	2CKK8	—	2CKP1	—
2 ⅛ in	2 ⅛ in	—	2CKF9	—	2CKH7	—	2CKK9	—	2CKP2	—
2 ⅜ in	—	2 in	2CKG1	—	2CKH8	—	2CKL1	—	2CKP3	—
2 ⅝ in	2 ⅝ in	—	2CKG2	—	2CKH9	—	2CKL2	—	2CKP4	—
2 ⅞ in	—	2 ½ in	2CKG3	—	2CKJ1	—	2CKL3	—	—	—
3 ⅛ in	3 ⅛ in	—	2CKG4	—	2CKJ2	—	2CKL4	—	2CKP6	—
3 ½ in	—	3 in	—	—	2CKJ3	—	2CKL5	—	2CKP7	—
3 ⅝ in	3 ⅝ in	3 in	—	—	2CKJ4	—	—	—	—	—
4 ⅛ in	4 ⅛ in	3 ½ in	—	—	2CKJ5	—	2CKL7	—	2CKP9	—
4 ½ in	—	4 in	—	—	2CKJ6	—	2CKL8	—	2CKR1	—

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	½" Wall Thickness Item No.	1" Wall Thickness Item No.
Pre-Slit/Pre Glued, White				
⅝ in	⅝ in	⅜ in	4DHN3	4DHN9
⅞ in	⅞ in	½ in	4DHN4	4DHP1
1 ⅛ in	1 ⅛ in	¾ in	4DHN5	—
1 ⅝ in	1 ⅝ in	1 ¼ in	4DHN7	4DHP4
2 ⅛ in	2 ⅛ in	—	4DHN8	—

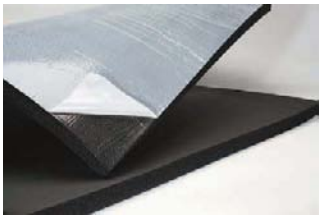
Sheet Size	Wall Thickness	Item No.
Insulation Sheet, Black		
36" x 48"	½"	4NLN6
36" x 48"	¾"	4NLN7
36" x 48"	1"	4NLN8

K-FLEX USA

Insul-Sheet S2S Insulation

- Temp. range: -297° to 220°F
- Environmentally friendly; CFC-free

Insulates ductwork, pipes, fittings, and tanks. Highly flexible with a durable skin that resists solvents and chemicals. Smooth surfaces improve adhesive coverage.


4VZR5

PSA BACKING

Peel-and-stick backing allows fast installation; eliminates adhesive-related spills, VOCs, and odors.

Wall Thickness - Insulation	Insulation Sheet Size	Insulation Approx. R Value	PSA Backing Item No.	Skin on Two Sides Item No.
½ in	36 in x 48 in	2.0	4VZR5	3F414
¾ in	36 in x 48 in	3.0	4VZR6	3F415
1 in	36 in x 48 in	4.0	4VZR7	3F416

K-FLEX USA

Contact Adhesives

Air dry to form a resilient, moisture-resistant bond in 3 to 4 min. under normal conditions. Excellent for joining seams and butt joints of Insul-Tube® and Insul-Sheet®. 3F417 can also be used with Therma-Cel®.

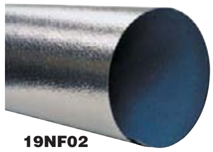
3F417

Color	Size	Temp. Range (F)	Mfr. Model	Item No.
Amber	1 pt.	Up to 200°	800-320-PTB	3F417
Black	1 pt.	Up to 200°	800-620-PTB	4VZR8

19NF34

19NF19

19NF02



19NF32

ITW INSULATIONSYSTEMS

Pipe Insulation and Aluminum Jacketing

PIPE INSULATION

- Temp. range: -297° to 300°F

EPDM rubber-based elastomeric material is flexible, lightweight, UV resistant, and requires no outdoor weather protection. Insulation is noncorrosive to copper or stainless steel, requires no vapor barrier, and is paintable. Can be used on hot liquid heating systems, cold water plumbing, and chilled water and refrigeration lines to control condensation formation. Meets ASTM C534, C692, D635, E84, and E96.

JACKETING ALUMINUM ELBOWS

Help protect insulation and underlying pipe or vessel from corrosive atmospheres, physical damage, UV exposure, and water. Feature a 3-mil thick polysurlyn moisture barrier laminated to the inside surface to help prevent corrosion of the underlying metal pipe. Suitable for standard outdoor use on horizontal tanks, pipe, and vertical tank insulation systems. Meets ASTM C1371, C1729, and E84.

INSULATED PIPE JACKET

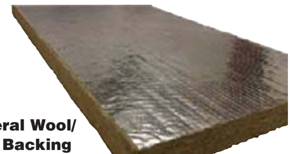
Aluminum material helps protect mechanical insulation systems including equipment, pipe, and vessels. Features a 3-mil thick polysurlyn moisture barrier laminated to the inside surface to help prevent corrosion of the jacketing and the underlying equipment, metal pipe, or vessel. Ideal for use on all standard outdoor pipe, vertical tank insulation systems up to 8-ft. dia., and all horizontal tanks. Meets ASTM C1371, C1729, and E84.

		Insulation Approx. R Value											
		1.53			2.04			3.06			4.08		
Insulation Nominal I.D.	Brand	Insulation Length	Wall Thickness - Insulation	Item No.	Insulation Length	Wall Thickness - Insulation	Item No.	Insulation Length	Wall Thickness - Insulation	Item No.	Insulation Length	Wall Thickness - Insulation	Item No.
Pipe Insulation													
¼ in	Aeroflex	6 ft	⅜ in	**19NF34**	6 ft	½ in	**19NF53**	6 ft	¾ in	**19NF77**	6 ft	1 in	**19NG02**
⅜ in	Aeroflex	6 ft	⅜ in	**19NF35**	6 ft	½ in	**19NF54**	6 ft	¾ in	**19NF78**	6 ft	1 in	**19NG03**
½ in	Aeroflex	6 ft	⅜ in	**19NF36**	6 ft	½ in	**19NF55**	6 ft	¾ in	**19NF79**	6 ft	1 in	**19NG04**
⅝ in	Aeroflex	6 ft	⅜ in	**19NF37**	6 ft	½ in	**19NF56**	6 ft	¾ in	**19NF80**	6 ft	1 in	**19NG05**
¾ in	Aeroflex	6 ft	⅜ in	**19NF38**	6 ft	½ in	**19NF57**	6 ft	¾ in	**19NF81**	6 ft	1 in	**19NG06**
⅞ in	Aeroflex	6 ft	⅜ in	**19NF39**	6 ft	½ in	**19NF58**	6 ft	¾ in	**19NF82**	6 ft	1 in	**19NG07**
1 ⅛ in	Aeroflex	6 ft	⅜ in	**19NF40**	6 ft	½ in	**19NF59**	6 ft	¾ in	**19NF83**	6 ft	1 in	**19NG08**
1 ⅜ in	Aeroflex	6 ft	⅜ in	**19NF41**	6 ft	½ in	**19NF60**	6 ft	¾ in	**19NF84**	6 ft	1 in	**19NG09**
1 ⅝ in	Aeroflex	6 ft	⅜ in	**19NF42**	6 ft	½ in	**19NF61**	6 ft	¾ in	**19NF85**	6 ft	1 in	**19NG10**
1 ⅞ in	Aeroflex	6 ft	⅜ in	**19NF43**	6 ft	½ in	**19NF62**	6 ft	¾ in	**19NF86**	6 ft	1 in	**19NG11**
2 ⅛ in	Aeroflex	6 ft	⅜ in	**19NF44**	6 ft	½ in	**19NF63**	6 ft	¾ in	**19NF87**	6 ft	1 in	**19NG12**
2 ⅜ in	Aeroflex	6 ft	⅜ in	**19NF45**	6 ft	½ in	**19NF64**	6 ft	¾ in	**19NF88**	6 ft	1 in	**19NG13**
2 ⅝ in	Aeroflex	6 ft	⅜ in	**19NF46**	6 ft	½ in	**19NF65**	6 ft	¾ in	**19NF89**	6 ft	1 in	**19NG14**
2 ⅞ in	Aeroflex	6 ft	⅜ in	**19NF47**	6 ft	½ in	**19NF66**	6 ft	¾ in	**19NF90**	6 ft	1 in	**19NG15**
3 ⅛ in	Aeroflex	6 ft	⅜ in	**19NF48**	6 ft	½ in	**19NF67**	6 ft	¾ in	**19NF91**	6 ft	1 in	**19NG16**
3 ½ in	Aeroflex	6 ft	⅜ in	**19NF49**	6 ft	½ in	**19NF68**	6 ft	¾ in	**19NF92**	6 ft	1 in	**19NG17**
3 ⅝ in	Aeroflex	6 ft	⅜ in	**19NF50**	6 ft	½ in	**19NF69**	6 ft	¾ in	**19NF93**	6 ft	1 in	**19NG18**
4 ⅛ in	Aeroflex	6 ft	⅜ in	**19NF51**	6 ft	½ in	**19NF70**	6 ft	¾ in	**19NF94**	6 ft	1 in	**19NG19**
4 ½ in	Aeroflex	6 ft	⅜ in	**19NF52**	6 ft	½ in	**19NF71**	6 ft	¾ in	**19NF95**	6 ft	1 in	**19NG20**
5 ½ in	Aeroflex	—	—	—	6 ft	½ in	**19NF72**	6 ft	¾ in	**19NF96**	6 ft	1 in	**19NG21**
6 ⅛ in	Aeroflex	—	—	—	6 ft	½ in	**19NF73**	6 ft	¾ in	**19NF97**	6 ft	1 in	**19NG22**
6 ⅝ in	Aeroflex	—	—	—	6 ft	½ in	**19NF74**	6 ft	¾ in	**19NF98**	6 ft	1 in	**19NG23**

Fits Max. O.D.	Brand	45° Elbow Item No.	90° Elbow Item No.
Jacketing Aluminum Elbows			
3 in	ITW	**19NF19**	**19NF06**
3 ½ in	ITW	**19NF20**	**19NF07**
4 in	ITW	**19NF21**	**19NF08**
4 ½ in	ITW	**19NF22**	**19NF09**
5 in	ITW	**19NF23**	**19NF10**
5 ½ in	ITW	**19NF24**	**19NF11**
6 ⅝ in	ITW	**19NF25**	**19NF12**
7 ⅝ in	ITW	**19NF26**	**19NF13**
8 ⅝ in	ITW	**19NF27**	**19NF14**
9 ⅝ in	ITW	**19NF28**	**19NF15**
10 ¾ in	ITW	**19NF29**	**19NF16**
11 ¾ in	ITW	**19NF30**	**19NF17**
12 ¾ in	ITW	**19NF31**	**19NF18**

Description	Fits Max. O.D.	Insulation Color	Insulation Length	Brand	Item No.
Insulated Pipe Jacket					
Smooth Finish, Vapor Barrier	36 in	Silver	10 ft	ITW	**19NF03**
Smooth Finish, Vapor Barrier	36 in	Silver	25 ft	ITW	**19NF02**
Stucco Finish, Vapor Barrier	10 ¾ in	Silver	10 ft	ITW	**19NF05**
Stucco Finish, Vapor Barrier	10 ¾ in	Silver	25 ft	ITW	**19NF04**

Color	Size	Brand	Item No.
Mastic			
White	1 gal.	ITW	**19NF32**
White	2 gal.	ITW	**19NF33**



Mineral Wool/ Foil Backing Board

Super Firetemp Board

ROXUL The Better Insulation
IIG Industrial Insulation Group, LLC

High Temperature Insulation

- Durable and noncombustible

MINERAL WOOL BOARD

- Temp. range: 0° to 1200°F

Lightweight material is rigid, water repellent, and ideal where compressive resistance is required. Insulation has excellent thermal resistance, is noncorrosive, and chemically inert. Suitable for use in high temp. applications including drying oven equipment, petrochemical and power generating equipment, and storage tanks. Meets ASTM C612 Type 1VB, E136, E84, C665, and C795.

SUPER FIRETEMP BOARD

- Temp. range: 0° to 1700°F

Inorganic material is essentially dust-free and can be machined into a variety of shapes or sizes. Ideal for very high temp. applications including furnace wall structural supports and for use behind fire brick to help prevent thermal spalling. Meets ASTM C656, C795, E72, E119, E84, E136. UL 263, UL 1479, and UL 1709 Listed. NFPA 251 compliant.

Approx. R Value	L	W	Thickness	Brand	Item No.
Mineral Wool/Foil Backing Board, Dark Brown Color					
4	48 in	24 in	1 in	Roxul	**19NE81**
Mineral Wool/Foil Backing Board, Green Color					
6	48 in	24 in	1 ½ in	Roxul	**19NE82**
8	48 in	24 in	2 in	Roxul	**19NE83**
12	48 in	24 in	3 in	Roxul	**19NE84**
16	48 in	24 in	4 in	Roxul	**19NE85**
Mineral Wool Board, Green Color					
4	48 in	24 in	1 in	Roxul	**19NE76**
6	48 in	24 in	1 ½ in	Roxul	**19NE77**
8	48 in	24 in	2 in	Roxul	**19NE78**
12	48 in	24 in	3 in	Roxul	**19NE79**
16	48 in	24 in	4 in	Roxul	**19NE80**
Super Firetemp Board, Calcium Silicate Material, White Color					
0.52	12 in	12 in	½ in	IIG	**19NE43**
0.52	24 in	48 in	½ in	IIG	**19NE44**
0.52	48 in	48 in	½ in	IIG	**19NE45**
0.52	48 in	96 in	½ in	IIG	**19NE46**
0.77	12 in	12 in	¾ in	IIG	**19NE47**
0.77	24 in	48 in	¾ in	IIG	**19NE48**
0.77	48 in	48 in	¾ in	IIG	**19NE49**
0.77	48 in	96 in	¾ in	IIG	**19NE50**
1.03	12 in	12 in	1 in	IIG	**19NE51**
1.03	24 in	48 in	1 in	IIG	**19NE52**
1.03	48 in	48 in	1 in	IIG	**19NE53**
1.03	48 in	96 in	1 in	IIG	**19NE54**
1.54	12 in	12 in	1 ½ in	IIG	**19NE55**
1.54	24 in	48 in	1 ½ in	IIG	**19NE56**
1.54	48 in	48 in	1 ½ in	IIG	**19NE57**
1.54	48 in	96 in	1 ½ in	IIG	**19NE58**

Approx. R Value	L	W	Thickness	Brand	Item No.
Super Firetemp Board, Calcium Silicate Material, White Color, Extra Strength					
0.52	12 in	12 in	½ in	IIG	**19NE59**
0.52	24 in	48 in	½ in	IIG	**19NE60**
0.52	48 in	48 in	½ in	IIG	**19NE61**
0.52	48 in	96 in	½ in	IIG	**19NE62**
0.77	12 in	12 in	¾ in	IIG	**19NE63**
0.77	24 in	48 in	¾ in	IIG	**19NE64**
0.77	48 in	48 in	¾ in	IIG	**19NE65**
0.77	48 in	96 in	¾ in	IIG	**19NE66**
1.03	12 in	12 in	1 in	IIG	**19NE67**
1.03	24 in	48 in	1 in	IIG	**19NE68**
1.03	48 in	48 in	1 in	IIG	**19NE69**
1.03	48 in	96 in	1 in	IIG	**19NE70**
1.54	12 in	12 in	1 ½ in	IIG	**19NE71**
1.54	24 in	48 in	1 ½ in	IIG	**19NE72**
1.54	48 in	48 in	1 ½ in	IIG	**19NE73**
1.54	48 in	96 in	1 ½ in	IIG	**19NE74**

Material	Strength	Temp. Range	Color	Brand	Item No.
High Temperature Insulation					
Adhesive	Strong	0 °F to 1700 °F	White	IIG	**19NE75**

Fiberglass and Cotton Duct Insulation

Frost King · Johns Manville · ITW INSULATIONSYSTEMS

For use in commercial and industrial heating, air conditioning, and power and process equipment applications.

DUCT INSULATION – FROST KING

- Temp. range: 35° to 150°F (cotton), 35° to 250°F (fiberglass)
- 16"W x 48"L" (cotton), 12"W x 15 ft. L (fiberglass)

Easy-to-install insulation helps insulate, reduce vibration, and can be installed on air conditioning or heating ducts. Foil jacket. 48H491 is a natural cotton insulation made from recycled denim and and meets ASTM E408. 48H490 meets NFPA 90A, NFPA 90B, and ASTM C1136 Type II.

DUCT INSULATION BOARD – JOHNS MANVILLE

- Temp. range: -32° to 450°F (unfaced side), -32° to 150°F (faced side)

For systems that operate below ambient temperatures and where a vapor barrier is required. Insulation has square corners for a finished appearance on duct and equipment systems. Cuts easily with a utility knife and can be secured with mechanical fasteners or adhesive. Meets ASTM C612, Type IA; C612 Type IB; C553 Type III, HH-I-558C, HH-I-558B; E-84; C795; C1136. Mil. Spec. I-24244C. NFPA255. NRC 1.36. UL Listed.

DUCT INSULATION WRAP – JOHNS MANVILLE

- Temp. range: -32° to 250°F
- 48"W x 25"L

6ZKK3

For HVAC systems that operate below ambient temperatures, and where temperature control and a vapor barrier are required. Insulation comes with a vapor barrier and a 2" stapling tab. Meets ASTM C411, C553, C665, C1104, C1136s, C1290, C1338, E84; NFPA 90A; UL, C-UL Listed.

HIGH TEMPERATURE INSULATION – ITW

- Temp. range: -297° to 297°F
- 24"W x 48"L

Lightweight, moisture-resistant polyisocyanurate material has excellent thermal performance. Insulation features low moisture vapor permeability and good compressive strength. Density: 2#. Meets ASTM D1622, C518, E96, E84 at 1", D2126 Dimensional Stability.

Thickness	Density	Approx. R Value	Duct Insulation Material	Jacket Material: Foil Item No.	Jacket Material: All Service Jacket Item No.	Jacket Material: Foil Scrim Kraft Item No.
Duct Insulation, Frost King						
1 in		4	Cotton	48H491	—	—
2 in		6	Fiberglass	48H490	—	—
Duct Insulation Board, Johns Manville						
1 in	3 lb	4.3	Fiberglass	—	6ZKK8	6ZKK5
1 ½ in	3 lb	6.5	Fiberglass	—	6ZKK9	6ZKK6
1 in	6 lb	4.5	Fiberglass	—	6ZKL4	6ZKL1
1 ½ in	6 lb	6.8	Fiberglass	—	6ZKL5	6ZKL2
2 in	3 lb	8.7	Fiberglass	—	6ZKL0	6ZKK7
2 in	6 lb	9.1	Fiberglass	—	6ZKL6	6ZKL3
Duct Insulation Wrap, Johns Manville						
1 ½ in	0.75 lb	4.2	Fiberglass	—	—	6ZKK3

Thickness	Approx. R Value	Facing	Item No.
High Temperature Insulation, ITW			
1 in	5.3	Plain	19NE86
1 ½ in	7.9	Plain	19NE87
1 in	5.3	FSK	19NE91
1 ½ in	7.9	FSK	19NE92
1 in	5.3	ASJ	19NE96
1 ½ in	7.9	ASJ	19NE97
2 in	10.5	Plain	19NE88
2 in	10.5	FSK	19NE93
2 in	10.5	ASJ	19NE98
3 in	15.8	Plain	19NE89
3 in	15.8	FSK	19NE94
3 in	15.8	ASJ	19NE99
4 in	21.1	Plain	19NE90
4 in	21.1	FSK	19NE95
4 in	21.1	ASJ	19NF01

Pipe, Hose, and Valve Insulation

UNITHERM International inc.

Insulated Throw Blankets and Pipe Jackets—Can reduce heat loss and insulate barrels, dies, extruders, hoses, and pipe. Removable and is reusable. Insulated Throw Blankets require a strap and buckle 34CY92, 34CY91, or 34CY90, sold separately below.

Accessories—34CY92, 34CY91, and 34CY90 are durable fiberglass straps for installing insulated throw blankets. Feature steel roller buckles for easy adjustment and help ensure a secure fit. 34DA19 and 34DA20 allow you to measure high-temperature surfaces and are ideal for use when installing insulation.

Ceramic Fiber Blankets—Aluminum silicate fiber material is ideal for insulating pipes that transport high-temp. materials. Include hold-in-place straps on the inside and feature a top flap you can open to release heat if needed. Meet UL 723.

- Max. temp.: 2300°F, except 34DA14 is 2600°F

Valve Insulation—Reusable valve covers feature dual-layer mineral wool and fiberglass insulation, plus a durable silicone-coated fiberglass cloth jacket. Included adjustable draw cord and lacing anchors for a tight secure fit.

- Max. temp.: 900°F
- 3" thickness

Flange and Valve Insulation—Reusable insulation covers help reduce heat loss and energy costs. Silicone-coated fiberglass material is suitable for a variety of flange and valve sizes.

- Max. temp.: 900°F

Ceramic Fiber Insulation—Aluminum silicate fiber material is ideal for insulating pipes that transport high-temp. materials. Meet UL 723.

- Max. temp.: 2300°F, except 54TP62 is 2400°F

L	W	Thickness	Temp. Rating	Item No.
Insulated Throw Blankets				
12 in	12 in	1 in	2000 °F	34CZ03
	36 in	1 in	2000 °F	48ZX05
24 in	12 in	1 in	2000 °F	34CZ02
	24 in	1 in	2000 °F	34CY98
	36 in	1 in	2000 °F	48ZX08
36 in	12 in	1 in	2000 °F	34CZ01
	24 in	1 in	2000 °F	34CY97
	36 in	1 in	2000 °F	34CY95
	36 in	1 in	2000 °F	48ZX10
48 in	12 in	1 in	2000 °F	34CY99
	24 in	1 in	2000 °F	34CY96
	36 in	1 in	2000 °F	34CY94
	48 in	1 in	2000 °F	34CY93
Insulated Pipe Jackets				
12 in	18 in	3 in	200 °F	48ZX52
	24 in	3 in	900 °F	48ZY10
13 in	2 in	1 in	2000 °F	34CZ04
	4 in	1 in	2000 °F	34CZ05
	5 in	1 in	2000 °F	34CZ06
	6 in	1 in	2000 °F	34CZ07
	8 in	1 in	2000 °F	34CZ08
	10 in	1 in	2000 °F	34CZ09
	12 in	1 in	2000 °F	34CZ10
	14 in	1 in	2000 °F	34CZ11
	16 in	1 in	2000 °F	34CZ12
18 in	18 in	3 in	200 °F	48ZX56
	24 in	3 in	900 °F	48ZY14
19 in	2 in	1 in	2000 °F	34CZ13
	4 in	1 in	2000 °F	34CZ14
	5 in	1 in	2000 °F	34CZ15
	6 in	1 in	2000 °F	34CZ16
	8 in	1 in	2000 °F	34CZ17
	10 in	1 in	2000 °F	34CZ18
	12 in	1 in	2000 °F	34CZ19
	14 in	1 in	2000 °F	34CZ20
	16 in	1 in	2000 °F	34CZ21
24 in	18 in	3 in	200 °F	48ZX60
25 in	2 in	1 in	2000 °F	34CZ22
	4 in	1 in	2000 °F	34CZ23
	5 in	1 in	2000 °F	34CZ24
	6 in	1 in	2000 °F	34CZ25
	8 in	1 in	2000 °F	34CZ26
	10 in	1 in	2000 °F	34CZ27
	12 in	1 in	2000 °F	34CZ28
	14 in	1 in	2000 °F	34CZ29
	16 in	1 in	2000 °F	34CZ30
30 in	18 in	3 in	200 °F	48ZX64
	24 in	3 in	900 °F	48ZY18

34CZ03

34CY90

34CZ04

L	W	Thickness	Temp. Rating	Item No.
31 in	2 in	1 in	2000 °F	34CZ31
	4 in	1 in	2000 °F	34CZ32
	5 in	1 in	2000 °F	34CZ33
	6 in	1 in	2000 °F	34CZ34
	8 in	1 in	2000 °F	34CZ35
	10 in	1 in	2000 °F	34CZ36
	12 in	1 in	2000 °F	34CZ37
	14 in	1 in	2000 °F	34CZ38
	16 in	1 in	2000 °F	34CZ39
38 in	2 in	1 in	2000 °F	34CZ40
	4 in	1 in	2000 °F	34CZ41
	5 in	1 in	2000 °F	34CZ42
	6 in	1 in	2000 °F	34CZ43
	8 in	1 in	2000 °F	34CZ44
	10 in	1 in	2000 °F	34CZ45
	12 in	1 in	2000 °F	34CZ46
	14 in	1 in	2000 °F	34CZ47
	16 in	1 in	2000 °F	34CZ48
43 in	2 in	1 in	2000 °F	34CZ49
	4 in	1 in	2000 °F	34CZ50
	5 in	1 in	2000 °F	34CZ51
	6 in	1 in	2000 °F	34CZ52
	8 in	1 in	2000 °F	34CZ53
	10 in	1 in	2000 °F	34CZ54
	12 in	1 in	2000 °F	34CZ55
	14 in	1 in	2000 °F	34CZ56
	16 in	1 in	2000 °F	34CZ57
48 in	18 in	3 in	200 °F	48ZX76
50 in	2 in	1 in	2000 °F	34CZ58
	4 in	1 in	2000 °F	34CZ59
	5 in	1 in	2000 °F	34CZ60
	6 in	1 in	2000 °F	34CZ61
	8 in	1 in	2000 °F	34CZ62
	10 in	1 in	2000 °F	34CZ63
	12 in	1 in	2000 °F	34CZ64
	14 in	1 in	2000 °F	34CZ65
	16 in	1 in	2000 °F	34CZ66

L	W	Thickness	Temp. Rating	Item No.
56 in	2 in	1 in	2000 °F	34CZ67
	4 in	1 in	2000 °F	34CZ68
	5 in	1 in	2000 °F	34CZ69
	6 in	1 in	2000 °F	34CZ70
	8 in	1 in	2000 °F	34CZ71
	10 in	1 in	2000 °F	34CZ72
	12 in	1 in	2000 °F	34CZ73
	14 in	1 in	2000 °F	34CZ74
	16 in	1 in	2000 °F	34CZ75
60 in	18 in	3 in	200 °F	48ZX80
63 in	2 in	1 in	2000 °F	34CZ76
	4 in	1 in	2000 °F	34CZ77
	5 in	1 in	2000 °F	34CZ78
	6 in	1 in	2000 °F	34CZ79
	8 in	1 in	2000 °F	34CZ80
	10 in	1 in	2000 °F	34CZ81
	12 in	1 in	2000 °F	34CZ82
	14 in	1 in	2000 °F	34CZ83
	16 in	1 in	2000 °F	34CZ84
68 in	2 in	1 in	2000 °F	34CZ85
	4 in	1 in	2000 °F	34CZ86
	5 in	1 in	2000 °F	34CZ87
	6 in	1 in	2000 °F	34CZ88
	8 in	1 in	2000 °F	34CZ89
	10 in	1 in	2000 °F	34CZ90
	12 in	1 in	2000 °F	34CZ91
	14 in	1 in	2000 °F	34CZ92
	16 in	1 in	2000 °F	34CZ93

34DA15

34CZ94

Description	For Use With/Function	Item No.
Accessories		
Straps with Buckles, 24 inLx 1 inW	Insulation Throw Blankets	34CY92
Straps with Buckles, 36 inLx 1 inW	Insulation Throw Blankets	34CY91
Straps with Buckles, 48 inLx 1 inW	Insulation Throw Blankets	34CY90
Colloidal Silica Rigidizer	Ceramic Fibers	34DA15
Tape Measure	Measuring Applications with Very High Surface Temperature	34DA19
Magnetic Tip Tape Measure	Includes Magnets, Used with Very High Surface Temperature Metals	34DA20
Lacing Set	Hook Needed to Lace Jacket Shut	23AR70
Lacing Wire	Wire Used to Lace Through Hooks	23AR71
C Rings	Clamps Through Insulation Jacket to Keep Contents Inside	23AR73

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Pipe, Hose, and Valve Insulation

UNITHERM International Inc.

Insulation Approx. R Value @ 1000F	Insulation Length	Insulation Width	Insulation Density	Wall Thickness - Insulation	Item No.
Ceramic Fiber Blanket					
1.06	25 ft	48 in	6 cu ft/lb	1 in	**34DA11**
1.06	12.5 ft	24 in	6 cu ft/lb	2 in	**34DA12**
1.06	12.5 ft	48 in	6 cu ft/lb	2 in	**34DA13**
0.75	25 ft	24 in	8 cu ft/lb	1 in	**34DA14**

Fits Max. O.D.	L	Thickness	Item No.
Insulated Elbow Pipe Jacket			
0 in to 2 in	2 in	3 in	**48ZY42**
2 in to 4 in	4 in		**48ZY44**
4 in to 6 in	6 in		**48ZY46**

Approx. R Value	Valve Circumference Range	L	W	Thickness	Item No.
Flange and Valve Insulation					
0.48	4 in to 6 in	24 in	6 in	2 in	**23AR54**
			12 in	2 in	**23AR55**
			18 in	2 in	**23AR56**
			24 in	2 in	**23AR57**
	8 in to 10 in	36 in	6 in	2 in	**23AR58**
			12 in	2 in	**23AR59**
			18 in	2 in	**23AR60**
			24 in	2 in	**23AR61**
	12 in to 14 in	48 in	6 in	2 in	**23AR62**
			12 in	2 in	**23AR63**
			18 in	2 in	**23AR64**
			24 in	2 in	**23AR65**
	14 in to 17 in	60 in	6 in	2 in	**23AR66**
			12 in	2 in	**23AR67**
			18 in	2 in	**23AR68**
			24 in	2 in	**23AR69**

Insulation Approx. R Value @ 1000F	Insulation Length	Insulation Width	Wall Thickness - Insulation	Item No.
Ceramic Fiber Insulation				
0.75	4.2 ft	24 in	2 in	**54TP56**
		48 in	2 in	**54TP58**
	5 ft	24 in	½ in	**54TP60**
		24 in	1 in	**54TP52**
		24 in	1 in	**54TP62**
		48 in	½ in	**54TP61**
		48 in	1 in	**54TP54**
	12.5 ft	24 in	2 in	**23AR52**
		48 in	2 in	**23AR53**
	25 ft	24 in	1 in	**23AR50**
		48 in	1 in	**23AR51**
	50 ft	24 in	½ in	**23AR49**
		48 in	½ in	**54TP63**
1.06	4.2 ft	24 in	2 in	**54TP57**
		48 in	2 in	**54TP59**
	5 ft	24 in	1 in	**54TP53**
		48 in	1 in	**54TP55**
	25 ft	24 in	1 in	**23AR48**

Approx. R Value	Valve Circumference Range	L	W	Item No.
Valve Insulation Heater				
0.48	0 in to 7 in	12 in	18 in	**48ZX16**
	7 in to 13 in	18 in	18 in	**48ZX20**
	13 in to 19 in	24 in	18 in	**48ZX24**
	19 in to 25 in	30 in	18 in	**48ZX28**
	25 in to 31 in	36 in	18 in	**48ZX32**
	31 in to 37 in	42 in	18 in	**48ZX36**
	37 in to 42 in	48 in	18 in	**48ZX40**
Valve Insulation				
0.48	0 in to 7 in	12 in	18 in	**48ZX88**
	7 in to 13 in	18 in	18 in	**48ZX92**
	13 in to 19 in	24 in	6 in	**34CZ94**
			12 in	**34CZ95**
			18 in	**34CZ96**
			24 in	**34CZ97**
	19 in to 25 in	30 in	24 in	**48ZX97**
	25 in to 31 in	36 in	6 in	**34CZ98**
			12 in	**34CZ99**
			18 in	**34DA01**
			24 in	**34DA02**
	37 in to 42 in	48 in	6 in	**34DA03**
			12 in	**34DA04**
			18 in	**34DA05**
			24 in	**34DA06**
	49 in to 55 in	60 in	6 in	**34DA07**
			12 in	**34DA08**
			18 in	**34DA09**
			24 in	**34DA10**

379 Series 4NNZ6

879 Series 4NPC8

ASJ 79 Series 4NNX4

079 Series 4NNV4

Melamine Preformed Pipe Insulation and Sheets

TECHLITE™

- Temp. range: -40° to 350°F
- Pipe insulation is 4-ft. long

Fiber-free insulation system is produced from ozone-friendly TechLite® melamine foam. Include ship-lap joints and/or relief cuts to accommodate curved surfaces. Preformed sections fit pipes and tubes. Flat sheets can be used for ductwork and large vessels. Insulation meets ASTM C1410 Cellular Melamine, ASTM E84 25/50 Rating.

379 Series—Covered with a high-strength, 30-mil, polyester-reinforced PVC outer jacketing. Covering is UV-resistant and approved for outdoor use; absorbs impacts and returns to its original shape. White color.

879 Series—High-gloss semirigid 20-mil PVC outer jacketing has excellent antibacterial and low-mold properties. Approved for severe washdown requirements of sanitary processes. Ideal for food and beverage, clean room, and biopharm applications. White color.

ASJ 79 Series—Covered with a fiber-reinforced, paper-and-foil lamination; an excellent choice for interior applications. True foil barrier has very low vapor permeability. Outer cover is paintable or can be covered with a secondary jacket if used in outdoor applications. White color.

079 Series—Plain, light gray foam can be easily fabricated over nonstandard pipes or ducts; form and fit with simple hand tools. Can be layered or mitered to fit nonstandard curves or objects. Mechanically fasten or glue in place.

Insulation Nominal I.D.	Fits Tube Size	Fits Pipe Size - Pipe Insulation	379 Series Item No.	879 Series Item No.	ASJ 79 Series Item No.	079 Series Item No.
Preformed Pipe Insulation, 1 in Thickness						
⅝"	⅝"	—	**4NPA7**	**4TGJ3**	**4NNY5**	**4NNW3**
⅞"	—	½"	**4NNZ6**	—	—	—
⅞"	⅞"	½"	**4NPA8**	**4NPC8**	**4NNX4**	**4NNV2**
⅞"	⅞"	½"	—	**4TGJ4**	**4NNY6**	**4NNW4**
1⅛"	1⅛"	—	**4NPA9**	**4TGJ5**	**4NNY7**	**4NNW5**
1⅛"	1⅛"	¾"	**4NNZ7**	**4TGH3**	**4NNX5**	**4NNV3**
1⅜"	1⅜"	1"	**4NNZ8**	**4TGH4**	**4NNX6**	**4NNV4**
1⅜"	1⅜"	1"	**4NPC1**	**4TGJ6**	**4NNY8**	**4NNW6**
1⅝"	1⅝"	1¼"	**4NPC2**	**4TGJ7**	**4NNY9**	**4NNW7**
1⅝"	1⅝"	1¼"	**4NNZ9**	**4TGH5**	**4NNX7**	**4NNV5**
1⅞"	—	1½"	**4NPA1**	**4TGH6**	**4NNX8**	**4NNV6**
2⅛"	2⅛"	—	**4NPC3**	**4TGJ8**	**4NNZ1**	**4NNW8**
2⅜"	—	2"	**4NPA2**	**4TGH7**	**4NNX9**	**4NNV7**
2⅝"	2⅝"	—	**4NPC4**	**4TGJ9**	**4NNZ2**	**4NNW9**
3"	—	2½"	**4NPA3**	**4TGH8**	**4NNY1**	**4NNV8**
3⅛"	3⅛"	—	**4NPC5**	**4TGK1**	**4NNZ3**	**4NNX1**
3⅝"	3⅝"	—	**4NPC6**	**4TGK2**	**4NNZ4**	**4NNX2**
3⅝"	3⅝"	3"	**4NPA4**	**4TGH9**	**4NNY2**	**4NNV9**
4⅛"	4⅛"	—	**4NPC7**	**4TGK3**	**4NNZ5**	**4NNX3**
4⅛"	4⅛"	3½"	**4NPA5**	**4TGJ1**	**4NNY3**	**4NNW1**
4⅝"	—	4"	**4NPA6**	**4TGJ2**	**4NNY4**	**4NNW2**

Insulation Sheet Size	Wall Thickness - Insulation	079 Series Item No.
Insulation Sheets		
24" x 48"	½"	**4NNP3**
	1"	**4NNP4**
	1½"	**4NNP5**
	2"	**4NNP6**
	3"	**4NNP7**
24" x 96"	½"	**4NNP8**
	1"	**4NNP9**
	1½"	**4NNR1**
	2"	**4NNR2**
	3"	**4NNR3**
48" x 96"	½"	**4NNR4**
	1"	**4NNR5**
	1½"	**4NNR6**
	2"	**4NNR7**
	3"	**4NNR8**

32XV36

3DXU8

Self-Fusing Silicone Tape

ER Emergency Repair TAPE

- Operating temp.: -130° to 500°F

Protective overwrap is adhesive-free. For use in insulating electrical connections, protecting pipe threads, friction wrap for handle grips, tension wrap for bundles of wires and hoses, temporary hose repairs, and corrosion protection. Cures in 24 hr. and creates a permanent seal. 32XV29 to 32XV34 have a triangular shape that helps assure a smooth and uniform wrap over difficult shapes such as bus bars, cable harnesses, coils, and splices. All items meet Mil. Spec. CID A-A-59163 and are UL 510 Recognized.

Thickness	L	W	Color	Item No.
Rectangle Self-Fusing Tape				
0.020 in	432 in	2 in	Black	**32XV35**
		2 in	Gray	**32XV37**
		2 in	White	**32XV36**
Self-Fusing Tape				
0.020 in	144 in	1 in	Black	**32XV38**
		1 in	Clear	**32XV40**
		1 in	Gray	**32XV42**
		1 in	Red	**32XV39**
		1 in	White	**32XV41**
20 mil	432 in	1 in	Black	**3DXU8**
		1 in	Blue	**6PFH4**
		1 in	Clear	**6PFH3**
		1 in	Gray	**6PFH5**
		1 in	Green	**6PFH2**
		1 in	Red Oxide	**6PFH0**
		1 in	White	**6PFH1**
		1 in	Yellow	**3DXU9**

Thickness	L	W	Color	Item No.
Triangle Self-Fusing Tape				
0.020 in	432 in	1 in	Black/Blue	**32XV30**
		2 in	Black/Blue	**32XV33**
		1 in	Gray/Blue	**32XV32**
		1 in	Red Oxide/ Blue	**32XV31**
		2 in	White/Blue	**32XV34**
0.040 in		1 in	Black/Green	**32XV29**

48H489

Frost King

Pipe Insulation Wraps

- Temp. range: 0° to 250°F

Help cut heat loss on hot water pipes and help keep cold water pipes from sweating. Meet UL 723.

Description	W	L	Approx. R Value	Item No.
Fiberglass w/Plastic Vapor Barrier Overwrap	3 in	25 ft	1.6	**48H488**
Fiberglass and Foil	3 in	25 ft	3.3	**48H489**
Foam and Foil, Self-Adhesive	2 in	15 ft	2	**48H494**
Cotton and Foil, No-Itch	3 in	25 ft	4	**48H492**

Rubber Flange Gaskets—Full-Face

- ⅛" thick
- ANSI sized to fit 150-lb. flanges

NEOPRENE BLEND (BLACK)
- Temp. range: -20° to 190°F

Have moderate resistance to ozone, oxidation, water, hydraulic silicate, and oil.

SBR BLEND (RED)
- Temp. range: -20° to 180°F

Good heat resistance for low-pressure hot and cold water applications.

FDA NITRILE (OFF WHITE)
- Temp. range: -25° to 180°F

Made with FDA-approved ingredients.

FKM FLUOROELASTOMER (BLACK)
- Temp. range: -10° to 400°F

Excellent resistance to oils, fuels, chlorinated solvents, hydrocarbons, and strong acids.

SILICONE (RED)
- Temp. range: -80° to 400°F

Excellent performance in extreme temperatures.

1TUR8

1TUT5

Pipe Size	Inside Dia.	Outside Dia.	Bolt Holes	Neoprene Blend Max. Pressure (psi)	Neoprene Blend Item No.	SBR Blend Max. Pressure (psi)	SBR Blend Item No.	FDA Nitrile Max. Pressure (psi)	FDA Nitrile Item No.	FKM Fluoroelastomer Max. Pressure (psi)	FKM Fluoroelastomer Item No.	Silicone Max. Pressure (psi)	Silicone Item No.
½"	27⁄32"	3½"	4	—	—	—	—	250 psi	4CYT9	250 psi	4CYV2	250 psi	4CYW4
¾"	1 1⁄16"	3⅞"	4	150 psi	1TUR8	150 psi	1TUT8	250 psi	4CYU1	250 psi	4CYV3	250 psi	4CYW5
1"	1 5⁄16"	4¼"	4	150 psi	1TUR9	150 psi	1TUT9	250 psi	4CYU2	250 psi	4CYV4	250 psi	4CYW6
1½"	1 29⁄32"	5"	4	150 psi	1TUT1	150 psi	1TUV1	250 psi	4CYU3	250 psi	4CYV5	250 psi	4CYW7
2"	2⅜"	6"	4	150 psi	1TUT2	150 psi	1TUV2	—	—	—	—	—	—
2"	2 13⁄32"	6"	4	—	—	—	—	250 psi	4CYU4	250 psi	4CYV6	250 psi	4CYW8
2½"	2⅞"	7"	4	150 psi	1TUT3	150 psi	1TUV3	250 psi	4CYU5	250 psi	4CYV7	250 psi	4CYW9
3"	3½"	7½"	4	150 psi	1TUT4	150 psi	1TUV4	250 psi	4CYU6	250 psi	4CYV8	250 psi	4CYX1
4"	4½"	9"	8	150 psi	1TUT5	150 psi	1TUV5	250 psi	4CYU7	250 psi	4CYV9	250 psi	4CYX2
5"	5 9⁄16"	10"	8	—	—	—	—	250 psi	4CYU8	250 psi	4CYW1	250 psi	4CYX3
6"	6⅝"	11"	8	150 psi	1TUT6	150 psi	1TUV6	250 psi	4CYU9	250 psi	4CYW2	250 psi	4CYX4
8"	8⅝"	13½"	8	150 psi	1TUT7	150 psi	1TUV7	250 psi	4CYV1	250 psi	4CYW3	250 psi	4CYX5

Full Face and Ring Gasket Kits with Bolts

- ANSI sized to fit 150-lb. flat face flanges

Grade A zinc-plated carbon steel bolts.

SBR BLEND (STYRENE BUTADIENE RUBBER)
- Max. temp: -20° to 170°F
- 210°F tensile strength = 500 psi

ARAMID FIBER WITH NITRILE RUBBER
- Max. temp: 750°F (continuous max. temp.: 460°F)
- Max. pressure: 1595 psi (continuous max. pressure: 725 psi)

Pipe Size	Inside Dia.	Outside Dia.	Bolt Holes	Item No.
SBR Blend (Styrene Butadiene Rubber)				
2 in	2 ⅜ in	6 in	4	5WLY9
2 ½ in	2 ⅞ in	7 in	4	5WLZ0
3 in	3 ½ in	7 ½ in	4	5WLZ1
4 in	4 ½ in	9 in	8	5WLZ2
6 in	6 ⅝ in	11 in	8	5WLZ3
8 in	8 ⅝ in	13 ½ in	8	5WLZ4
10 in	10 ¾ in	16 in	12	5WLZ5
12 in	12 ¾ in	19 in	12	5WLZ6
Aramid Fiber with Nitrile Binder				
2 in	2 5⁄16 in	4 ⅛ in	—	5WLZ7
2 ½ in	2 3⁄16 in	4 ⅞ in	—	5WLZ8
3 in	3 ⅜ in	5 ⅜ in	—	5WLZ9
4 in	4 ⅜ in	6 ⅞ in	—	5WMA0
5 in	5 3⁄16 in	7 ¾ in	—	5WMA1
6 in	6 ½ in	8 ¾ in	—	5WMA2
8 in	8 ½ in	11 in	—	5WMA3

5WLZ4

5WLY9

Thermoseal An Independent Klinger Company | TEADIT Sealing for a Safer and Greener Tomorrow | Garlock SEALING TECHNOLOGIES

PTFE and Fiber Ring Gaskets and Sheets

- Ring gaskets are ANSI sized to fit 150-lb. flat-face and raised-face flanges

RING FLANGE GASKETS

A. Virgin PTFE
- Max. pressure: 150 psi
- Temp. range: -450° to 500°F

High-purity gaskets provide a low-stress seal with high chemical compatibility.

B. Inorganic Fiber Garlock IFG 5500
- Max. pressure: 1200 psi
- Temp. range: -100° to 800°F, 550°F continuous

Thermally stable gaskets resist aliphatic hydrocarbons, gasoline, saturated steam, inert gases, and most refrigerants.

C. Microcellular PTFE Garlock 3545
- Max. pressure: 1200 psi
- Temp. range: -450° to 500°F

Resist strong acids, caustics, and hydrocarbons.

D. Flexible Graphite with 316SS Insert
- Max. pressure: 2000 psi
- Temp. range: -400° to 850°F

Seal effectively during thermal cycling, resist corrosive chemicals, and are for use in critical sealing applications.

E. PTFE with 304SS Insert
- Max. pressure: 800 psi
- Temp. range: -250° to 450°F

Void-free, virgin PTFE.

C. Garlock Microcellular
1TUV8

Gasket Sheet
38R341

Pipe Size	Inside Dia.	Outside Dia.	A. Approved Vendor Virgin PTFE, White Thickness ⅟16 in Item No.	A. Approved Vendor Virgin PTFE, White Thickness ⅛ in Item No.	B. Garlock Inorganic Fiber Garlock IFG 5500, Gray Thickness ⅟16 in Item No.	B. Garlock Inorganic Fiber Garlock IFG 5500, Gray Thickness ⅛ in Item No.	C. Garlock Microcellular PTFE, White Thickness ⅟16 in Item No.	C. Garlock Microcellular PTFE, White Thickness ⅛ in Item No.
Ring Flange Gaskets								
½ in	27⁄32 in	1 ⅞ in	1TVD6	1TVC5	—	38VP96	—	—
¾ in	1 1⁄16 in	2 ¼ in	1TVD7	1TVC6	1TUX8	38VP97	1TUV8	1TUW8
1 in	1 5⁄16 in	2 ⅝ in	1TVD8	1TVC7	1TUX9	38VP98	1TUV9	1TUW9
1 ¼ in	1 21⁄32 in	3 in	1TVD9	1TVC8	—	—	—	—
1 ½ in	1 29⁄32 in	3 ⅜ in	1TVE1	1TVC9	1TUY1	38VP99	1TUW1	1TUX1
2 in	2 ⅜ in	4 ⅛ in	1TVE2	1TVD1	1TUY2	38VR01	1TUW2	1TUX2
2 ½ in	2 ⅞ in	4 ⅞ in	—	—	1TUY3	38VR02	1TUW3	1TUX3
3 in	3 ½ in	5 ⅜ in	1TVE3	1TVD2	1TUY4	38VR03	1TUW4	1TUX4
4 in	4 ½ in	6 ⅞ in	1TVE4	1TVD3	1TUY5	38VR04	1TUW5	1TUX5
6 in	6 ⅝ in	8 ¾ in	1TVE5	1TVD4	1TUY6	38VR05	1TUW6	1TUX6
8 in	8 ⅝ in	11 in	1TVE6	1TVD5	1TUY7	38VR06	1TUW7	1TUX7

Pipe Size	Inside Dia.	Outside Dia.	D. Flexible Graphite with 316SS Insert, Black, Thickness ⅟16 in Item No.	Approved Vendor D. Flexible Graphite with 316SS Insert, Black, Thickness ⅛ in Item No.	Approved Vendor E. PTFE with 304SS Insert, White, Thickness 3⁄32 in Item No.
Ring Flange Gaskets					
½ in	27⁄32 in	1 ⅞ in	4CYL1	38VR07	4CYJ8
¾ in	1 1⁄16 in	2 ¼ in	4CYL2	38VR08	4CYJ9
1 in	1 5⁄16 in	2 ⅝ in	4CYL3	38VR09	4CYK1
1 ½ in	1 29⁄32 in	3 ⅜ in	4CYL4	38VR10	4CYK2
2 in	2 ⅜ in	4 ⅛ in	4CYL5	38VR11	4CYK3
2 ½ in	2 ⅞ in	4 ⅞ in	4CYL6	38VR12	4CYK4
3 in	3 ½ in	5 ⅜ in	4CYL7	38VR13	4CYK5
4 in	4 ½ in	6 ⅞ in	4CYL8	38VR14	4CYK6
5 in	5 9⁄16 in	7 ¾ in	4CYL9	—	4CYK7
6 in	6 ⅝ in	8 ¾ in	4CYN1	38VR15	4CYK8
8 in	8 ⅝ in	11 in	4CYN2	38VR16	4CYK9

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CONTINUED

PTFE and Fiber Ring Gaskets and Sheets

Thermoseal An Independent Klinger Company · TEADIT Sealing for a Safer and Greener Tomorrow · Garlock SEALING TECHNOLOGIES

F. Expanded PTFE Gore Style GR and UPG Style 800
- Max. pressure: 3000 psi
- Temp. range: -450° to 600°F

Dimensionally stable and resist creep and cold flow. Provide low stress-to-seal for applications using plastic and glass-lined flanges. Resist many aggressive chemicals. 4CYR7 to 4CYR9, 4CYT1 to 4CYT8 are cut from sheet material. 38R343 to 38R353 are molded gaskets.

G. Aramid Fiber with Nitrile Binder Garlock 3000
- Max. pressure: 1000 psi
- Temp. range: -100° to 700°F, 400°F continuous

Help reduce fluid loss, maintenance, energy consumption, and inventory costs.

H. PTFE with Aluminosilicate Microspheres Garlock Gylon® 3504
- Max. pressure: 800 psi
- Temp. range: -450° to 500°F

Suitable for use with some caustics and moderate concentrations of hydrocarbons, hydrogen peroxide, refrigerants, and solvents.

I. Synthetic Fibers with Nitrile Binder (Thermoseal Klingersil® C-4401)
General-purpose gasket material features good sealability, chemical resistance, and good creep relaxation.

J. Graphite with Nitrile Binder Garlock 9900
- Max. pressure: 2000 psi
- Temp. range: -100° to 1000°F

This high-temperature gasketing minimizes cold flow and has reduced creep relaxation.

K. Expanded PTFE
- Max. pressure: 2900 psi
- Temp. range: -400° to 599°F

Compresses easily to minimize creep and cold flow.

L. PTFE with 304 SS Reinforcement Core
- Max. pressure: 150 psi, except 16T714 is 125 psi
- Temp. range: -400° to 500°F

Used for pipeline blocking, this pipeline gasket has a handle to ease installation.

M. SYNTHETIC FIBERS WITH A PROPRIETARY RUBBER BINDER GARLOCK 3760
- Max. pressure: 500 psi
- Temp. range: -100° to 400°F

Create their own low-pressure load with proprietary rubber binder. Material won't degrade when in contact with oils and is conformable to irregular flanges.

GASKET SHEETS

Expanded PTFE, 38VP92 to 38VP95

Softer and more flexible than conventional PTFE so it can easily conform to rough and irregular surfaces. Minimal creep at elevated temperatures.

PTFE with Glass Microspheres Garlock 3504, 16T703 to 16T706

Improved performance over PTFE. Suitable for use with some caustics, moderate concentrations of acids, hydrocarbons, refrigerants, and solvents.

Pipe Size	Inside Dia.	Outside Dia.	F. Gore Cut Expanded PTFE, White Thickness ⅛ in Item No.	F. Gore Molded Expanded PTFE, White Thickness ⅛ in Item No.	G. Garlock Aramid Fiber with Nitrile Binder, Blue Thickness ⅛ in Item No.	G. ¹⁄₁₆ in Item No.
Ring Flange Gaskets						
½ in	27/32 in	1 ⅞ in	4CYR7	38R343	4CYP5	4CYN3
¾ in	1 1/16 in	2 ¼ in	4CYR8	38R344	4CYP6	4CYN4
1 in	1 5/16 in	2 ⅝ in	4CYR9	38R345	4CYP7	4CYN5
1 ½ in	1 29/32 in	3 ⅜ in	4CYT1	38R346	4CYP8	4CYN6
2 in	2 ⅜ in	4 ⅛ in	4CYT2	38R347	4CYP9	4CYN7
2 ½ in	2 ⅞ in	4 ⅞ in	4CYT3	—	4CYR1	4CYN8
3 in	3 ½ in	5 ⅜ in	4CYT4	38R348	4CYR2	4CYN9
4 in	4 ½ in	6 ⅞ in	4CYT5	38R349	4CYR3	4CYP1
5 in	5 9/16 in	7 ¾ in	4CYT6	—	4CYR4	4CYP2
6 in	6 ⅝ in	8 ¾ in	4CYT7	38R350	4CYR5	4CYP3
8 in	8 ⅝ in	11 in	4CYT8	38R351	4CYR6	4CYP4
10 in	10 ¾ in	13 ⅜ in	—	38R352	—	—
12 in	12 ¾ in	16 ⅛ in	—	38R353	—	—

Pipe Size	Inside Dia.	Outside Dia.	H. Gylon PTFE with Aluminosilicate Microspheres, Blue Thickness 1/16 in Item No.	H. ⅛ in Item No.	I. Thermoseal Synthetic Fibers with Nitrile Binder, Green Thickness 1/16 in Item No.	I. ⅛ in Item No.	J. Garlock Graphite with Nitrile Binder, Mahogany Thickness 1/16 in Item No.	J. ⅛ in Item No.	K. Teadit Expanded PTFE, White Thickness ⅛ in Item No.
Flange Gaskets									
½ in	27/32 in	1 ⅞ in	38VR17	38VR27	38VR41	38VR51	38VP34	38VP44	38VP82
¾ in	1 1/16 in	2 ¼ in	38VR18	38VR28	38VR42	38VR52	38VP35	38VP45	38VP83
1 in	1 5/16 in	2 ⅝ in	38VR19	38VR29	38VR43	38VR53	38VP36	38VP46	38VP84
1 ½ in	1 29/32 in	3 ⅜ in	38VR20	38VR30	38VR44	38VR54	38VP37	38VP47	38VP85
2 in	2 ⅜ in	4 ⅛ in	38VR21	38VR31	38VR45	38VR55	38VP38	38VP48	38VP86
2 ½ in	2 ⅞ in	4 ⅞ in	38VR22	38VR32	38VR46	38VR56	38VP39	38VP49	38VP87
3 in	3 ½ in	5 ⅜ in	38VR23	38VR33	38VR47	38VR57	38VP40	38VP50	38VP88
4 in	4 ½ in	6 ⅞ in	38VR24	38VR34	38VR48	38VR58	38VP41	38VP51	38VP89
6 in	6 ⅝ in	8 ¾ in	38VR25	38VR35	38VR49	38VR59	38VP42	38VP52	38VP90
8 in	8 ⅝ in	11 in	38VR26	38VR36	38VR50	38VR60	38VP43	38VP53	38VP91

Pipe Size	Outside Dia.	L. Approved Vendor PTFE With 304SS Reinforcement Core, White Thickness ⅛ in Item No.
Paddle Gaskets/Pipeline Blockers		
1 in	2 ⅝ in	16T709
1 ½ in	3 ⅜ in	16T710
2 in	4 ⅛ in	16T711
3 in	5 ⅜ in	16T712
4 in	6 ⅞ in	16T713
6 in	8 ¾ in	16T714

Pipe Size	Inside Dia.	Outside Dia.	M. Garlock Synthetic Fibers with a Proprietary Rubber Binder, Blue and Off-White Thickness 1/16 in Item No.	M. ⅛ in Item No.
Ring Gaskets				
½ in	½ in	1 ⅞ in	40PP41	40PP39
¾ in	¾ in	2 ¼ in	1TUY8	40PP40
1 in	1 in	2 ⅝ in	1TUY9	40PP37
1 ½ in	1 ½ in	3 ⅜ in	1TUZ1	40PP44
2 in	2 in	4 ⅛ in	1TUZ2	40PP46
2 ½ in	2 ½ in	4 ⅞ in	1TUZ3	40PP43
3 in	3 in	5 ⅜ in	1TUZ4	40PP42
4 in	4 in	6 ⅞ in	1TUZ5	40PP45
6 in	6 in	8 ¾ in	1TUZ6	40PP36
8 in	8 in	11 in	1TUZ7	40PP38

L	W	Material of Construction	Color	Max. Pressure (psi)	Temp. Range (°F)	Mfr. Model	Brand	Thickness 1/32 in Item No.	1/16 in Item No.	⅛ in Item No.
Gasket Sheets										
12 in	12 in	Virgin PTFE	White	800 psi	-330 to 500	8764V12062	—	—	16T698	—
				800 psi	-330 to 500	8764V12125	—	—	—	16T701
15 in	15 in	Aramid Fibers with a Nitrile Binder	Blue	1,000 psi	-100 to 400	3000	Garlock	—	5MRT3	5MRT4
		Expanded PTFE	White	2,900 psi	-400 to 599	24SH-15062	Teadit	—	38VP94	—
				2,900 psi	-450 to 500	24SH-15125	Teadit	—	—	38VP95
		Graphite with Nitrile Binder	Mahogany	2,000 psi	-100 to 1000	9900-15062	Garlock	—	38VP56	—
				2,000 psi	-100 to 1000	9900-15125	Garlock	—	—	38VP57
		Inorganic Fibers with a Nitrile Binder	Gray	1,200 psi	-100 to 550	5500	Garlock	—	5MRT7	5MRT8
		Microcellular PTFE	White	1,200 psi	-450 to 500	3545	Garlock	—	5MRU1	5MRU2
		PTFE with Glass Microspheres	Blue	800 psi	-450 to 500	3504-15062	Garlock	—	16T703	—
				800 psi	-450 to 500	3504-15125	Garlock	—	—	16T705
		Synthetic Fibers with a Proprietary Rubber Binder	Blue and Off-White	500 psi	-100 to 400	3760U-15062	Garlock	—	38VP80 ††	—
				500 psi	-100 to 400	3760U-15125	Garlock	—	—	38VP81 ††
19.75 in	19.75 in	Flexible Graphite with 316 SS Insert	Black	2,000 psi	-400 to 850	FLEXIGRAF-19062	—	—	6PFJ2	—
				2,000 psi	-400 to 850	FLEXIGRAF-19125	—	—	—	6PFJ4
24 in	24 in	Virgin PTFE	White	800 psi	-330 to 500	8764V24062	—	—	16T699	—
				800 psi	-330 to 500	8764V24125	—	—	—	16T702
30 in	30 in	Aramid Fibers with a Nitrile Binder	Blue	1,000 psi	-100 to 400	3000	Garlock	—	5MRT5	5MRT6
		Expanded PTFE	White	2,900 psi	-450 to 500	24SH-30062	Teadit	—	38VP92	—
				2,900 psi	-400 to 599	24SH-30125	Teadit	—	—	38VP93
		Graphite with Nitrile Binder	Mahogany	2,000 psi	-100 to 1000	9900-30062	Garlock	—	38VP54	—
				2,000 psi	-100 to 1000	9900-30125	Garlock	—	—	38VP55
		Inorganic Fibers with a Nitrile Binder	Gray	1,200 psi	-100 to 550	5500	Garlock	—	5MRT9	5MRU0
		Microcellular PTFE	White	1,200 psi	-450 to 500	3545	Garlock	—	5MRU3	5MRU4
		PTFE with Glass Microspheres	Blue	800 psi	-450 to 500	3504-30062	Garlock	—	16T704	—
				800 psi	-450 to 500	3504-30125	Garlock	—	—	16T706
		Synthetic Fibers with a Proprietary Rubber Binder	Blue and Off-White	500 psi	-100 to 400	3760U-30062	Garlock	—	38VP78 ††	—
				500 psi	-100 to 400	3760U-30125	Garlock	—	—	38VP79 ††
		Synthetic Fibers with Nitrile Binder	Green	600 psi	0 to 400	C-4401	Thermoseal	38R340	—	38R342
				600 psi	0 to 400	C-4401	Thermoseal	—	38R341	—
39.5 in	39.5 in	Flexible Graphite with 316 SS Insert	Black	2,000 psi	-400 to 850	FLEXIGRAF-M062	—	—	6PFJ3	—
				2,000 psi	-400 to 850	FLEXIGRAF-M125	—	—	—	6PFJ5

†† NSF 61 Certified.

Flange Gaskets and Spiral Wound Metal Gaskets

Thermoseal An Independent Klinger Company

45CE04

45CE05

FLANGE GASKETS (KLINGERSIL C-4401)

- Max. pressure: 150 psi
- Temp. range: 0° to 750°F

Feature greater sealability, chemical resistance, and good creep relaxation.

SPIRAL WOUND METAL GASKETS

- Max. pressure: 150 psi
- Temp. range: 0° to 932°F

Suitable for use on raised face and flat face flanges. Type CR gaskets feature a solid metal outer ring that functions as a centering device and a compression stop. Type CRIR gaskets feature solid metal outer and inner rings that help protect the inner windings of the gasket element from high temperatures.

Pipe Size	Inside Dia.	Outside Dia.	Type	Item No.
Flange Gasket, 1/16" Thick				
Synthetic Fiber with Nitrile Binder				
½ in	27/32 in	1 ⅞ in	C-4401 ANSI Class 150	**45CE38**
¾ in	1 1/16 in	2 ¼ in	C-4401 ANSI Class 150	**45CD97**
1 in	1 5/16 in	2 ⅝ in	C-4401 ANSI Class 150	**45CD95**
1 ½ in	1 13/16 in	3 ⅜ in	C-4401 ANSI Class 150	**45CE49**
2 in	2 ⅜ in	4 ⅛ in	C-4401 ANSI Class 150	**45CD73**
3 in	3 ½ in	5 ⅜ in	C-4401 ANSI Class 150	**45CE11**
4 in	4 ½ in	6 ⅞ in	C-4401 ANSI Class 150	**45CE21**
6 in	6 ⅝ in	8 ¾ in	C-4401 ANSI Class 150	**45CD83**
8 in	8 ⅝ in	11 in	C-4401 ANSI Class 150	**45CE20**
10 in	10 ¾ in	13 ⅜ in	C-4401 ANSI Class 150	**45CE04**
12 in	12 ¾ in	16 ⅛ in	C-4401 ANSI Class 150	**45CE44**
14 in	14 in	17 ¾ in	C-4401 ANSI Class 150	**45CD82**
16 in	16 in	20 ¼ in	C-4401 ANSI Class 150	**45CE12**
18 in	18 in	21 ⅝ in	C-4401 ANSI Class 150	**45CE39**
20 in	20 in	23 ⅞ in	C-4401 ANSI Class 150	**45CD79**
24 in	24 in	28 ¼ in	C-4401 ANSI Class 150	**45CE52**

Pipe Size	Inside Dia.	Outside Dia.	Type	Item No.
Spiral Wound Metal Gasket, 3/16" Thick				
304SS and Flexible Graphite				
½ in	¾ in	1 ⅞ in	CR ANSI Class 150	**45CE37**
½ in	¾ in	1 ⅞ in	CRIR ANSI Class 150	**45CD81**
¾ in	1 in	2 ¼ in	CR ANSI Class 150	**45CE47**
¾ in	1 in	2 ¼ in	CRIR ANSI Class 150	**45CE23**
1 in	1 ¼ in	2 ⅝ in	CR ANSI Class 150	**45CD98**
1 in	1 ¼ in	2 ⅝ in	CRIR ANSI Class 150	**45CE09**
1 ½ in	2 ⅛ in	3 ⅜ in	CR ANSI Class 150	**45CE43**
1 ½ in	2 ⅛ in	3 ⅜ in	CRIR ANSI Class 150	**45CD74**
2 in	2 ¾ in	4 ⅛ in	CR ANSI Class 150	**45CD69**
2 in	2 ¾ in	4 ⅛ in	CRIR ANSI Class 150	**45CE07**
2 ½ in	3 ¼ in	4 ⅞ in	CR ANSI Class 150	**45CD87**
2 ½ in	3 ¼ in	4 ⅞ in	CRIR ANSI Class 150	**45CE22**
3 in	4 in	5 ⅜ in	CR ANSI Class 150	**45CE05**
3 in	4 in	5 ⅜ in	CRIR ANSI Class 150	**45CE48**
4 in	5 in	6 ⅞ in	CR ANSI Class 150	**45CE33**
4 in	5 in	6 ⅞ in	CRIR ANSI Class 150	**45CD89**
6 in	7 3/16 in	8 ¾ in	CR ANSI Class 150	**45CE50**
Spiral Wound Metal Gasket, 3/16" Thick (Cont.)				
304SS and Flexible Graphite				
6 in	7 3/16 in	8 ¾ in	CRIR ANSI Class 150	**45CE06**
8 in	9 3/16 in	11 in	CR ANSI Class 150	**45CD92**
8 in	9 3/16 in	11 in	CRIR ANSI Class 150	**45CD99**
10 in	11 5/16 in	13 ⅜ in	CR ANSI Class 150	**45CE42**
10 in	11 5/16 in	13 ⅜ in	CRIR ANSI Class 150	**45CD76**
12 in	13 ⅜ in	16 ⅛ in	CR ANSI Class 150	**45CD78**
12 in	13 ⅜ in	16 ⅛ in	CRIR ANSI Class 150	**45CD94**
14 in	14 ⅝ in	17 ¾ in	CR ANSI Class 150	**45CE46**
14 in	14 ⅝ in	17 ¾ in	CRIR ANSI Class 150	**45CD90**
16 in	16 ⅝ in	20 ¼ in	CR ANSI Class 150	**45CD85**
16 in	16 ⅝ in	20 ¼ in	CRIR ANSI Class 150	**45CE19**
18 in	18 11/16 in	21 ⅝ in	CR ANSI Class 150	**45CE32**
18 in	18 11/16 in	21 ⅝ in	CRIR ANSI Class 150	**45CD80**
20 in	20 11/16 in	23 ⅞ in	CR ANSI Class 150	**45CE34**
20 in	20 11/16 in	23 ⅞ in	CRIR ANSI Class 150	**45CE15**
24 in	24 ¾ in	28 ¼ in	CR ANSI Class 150	**45CE13**
24 in	24 ¾ in	28 ¼ in	CRIR ANSI Class 150	**45CE24**

Garlock SEALING TECHNOLOGIES® The Flexitallic Group

Metal-Reinforced Spiral-Wound Ring Gaskets

1TUZ8

38R293

Meet ANSI B16.20.

GARLOCK RW

- Temp. range: -320° to 842°F

With 304 stainless steel windings, flexible graphite filler, and a carbon steel centering ring. For hydrocarbon processing and refining, pulp and paper, and oil and gas applications.

APPOVED VENDOR SPIRAL-WOUND

- Temp. range: -320° to 842°F

304 stainless steel windings, with flexible graphite filler and carbon steel centering rings.

GARLOCK RWI

- Temp. range: -320° to 500°F

304 stainless steel inner ring protects sealing elements from process media. 304 stainless steel winding, PTFE filler, and carbon steel centering rings.

FLEXITALLIC CGI

- Temp. range: -150° to 842°F

304 or 316 stainless steel windings with flexible graphite filler. Include inner ring. Suitable for use with flat face and raised face flanges and specified for high pressure/temperature service or where toxic or corrosive carbon steel centering materials are present.

FLEXITALLIC CG

- Temp. range: -150° to 842°F

316 stainless steel windings with flexible graphite filler. Feature an external ring that centers the carbon steel centering gasket on the flange face. Provides additional radial strength to help prevent gasket blowout and acts as a compression stop. General purpose gasket suitable for use with raised face and flat face flanges.

		GARLOCK RW						Approved Vendor SPIRAL-WOUND			
		ANSI Sized to Fit 150-lb. Flat/Raised Face Gasket		ANSI Sized to Fit 300-lb. Flat/Raised Face Gasket		ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Gasket		ANSI Sized to Fit 150-lb. Flat/Raised Face Flange Gasket		ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Flange Gasket	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.
½ in	¾ in	1 ⅞ in	**1TUZ8**	—	—	2 ⅛ in	**1TVB2**	1 ⅞ in	**38UU38**	2 ⅛ in	**38UU49**
¾ in	1 in	2 ¼ in	**1TUZ9**	—	—	2 ⅝ in	**1TVB3**	2 ¼ in	**38UU39**	2 ⅝ in	**38UU50**
1 in	1 ¼ in	2 ⅝ in	**1TVA1**	—	—	2 ⅞ in	**1TVB4**	2 ⅝ in	**38UU40**	2 ⅞ in	**38UU51**
1 ¼ in	1 ⅞ in	3 in	**1TVA2**	—	—	3 ¼ in	**1TVB5**	—	—	—	—
1 ½ in	2 ⅛ in	3 ⅜ in	**1TVA3**	—	—	3 ¾ in	**1TVB6**	3 ⅜ in	**38UU41**	3 ¾ in	**38UU52**
2 in	2 ¾ in	4 ⅛ in	**1TVA4**	—	—	4 ⅜ in	**1TVB7**	4 ⅛ in	**38UU42**	4 ⅜ in	**38UU53**
2 ½ in	3 ¼ in	4 ⅞ in	**1TVA5**	—	—	5 ⅛ in	**1TVB8**	4 ⅞ in	**38UU43**	5 ⅛ in	**38UU54**
3 in	4 in	5 ⅜ in	**1TVA6**	—	—	5 ⅞ in	**1TVB9**	5 ⅜ in	**38UU44**	5 ⅞ in	**38UU55**
4 in	5 in	6 ⅞ in	**1TVA7**	7 ⅛ in	**1TVC1**	—	—	6 ⅞ in	**38UU45**	7 ⅛ in	**38UU56**
5 in	6 ⅛ in	7 ¾ in	**1TVA8**	8 ½ in	**1TVC2**	—	—	7 ¾ in	**38UU46**	8 ½ in	**38UU57**
6 in	7 3/16 in	8 ¾ in	**1TVA9**	9 ⅞ in	**1TVC3**	—	—	8 ¾ in	**38UU47**	9 ⅞ in	**38UU58**
8 in	9 3/16 in	11 in	**1TVB1**	12 ⅛ in	**1TVC4**	—	—	11 in	**38UU48**	12 ⅛ in	**38UU59**

		GARLOCK RWI					
		ANSI Sized to Fit 150-lb. Flat/Raised Face Flange Gasket		ANSI Sized to Fit 300-lb. Flat/Raised Face Flange Gasket		ANSI Sized to Fit 300/400/600-lb. Flat/Raised Face Flange Gasket	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.
½ in	9/16 in	1 ⅞ in	**4CYX6**	—	—	2 ⅛ in	**4CYY8**
¾ in	13/16 in	2 ¼ in	**4CYX7**	—	—	2 ⅝ in	**4CYY9**
1 in	1 1/16 in	2 ⅝ in	**4CYX8**	—	—	2 ⅞ in	**4CYZ1**
1 ½ in	1 ¾ in	3 ⅜ in	**4CYX9**	—	—	3 ¾ in	**4CYZ2**
2 in	2 3/16 in	4 ⅛ in	**4CYY1**	—	—	4 ⅜ in	**4CYZ3**
2 ½ in	2 ⅝ in	4 ⅞ in	**4CYY2**	—	—	5 ⅛ in	**4CYZ4**
3 in	3 3/16 in	5 ⅜ in	**4CYY3**	—	—	5 ⅞ in	**4CYZ5**
4 in	4 3/16 in	6 ⅞ in	**4CYY4**	7 ⅛ in	**4CYZ6**	—	—
5 in	5 3/16 in	7 ¾ in	**4CYY5**	8 ½ in	**4CYZ7**	—	—
6 in	6 3/16 in	8 ¾ in	**4CYY6**	9 ⅞ in	**4CYZ8**	—	—
8 in	8 ½ in	11 in	**4CYY7**	12 ⅛ in	**4CYZ9**	—	—

		FLEXITALLIC CGI							
		304SS and Flexible Graphite				316SS and Flexible Graphite			
		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300/400/600-lb.		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300/400/600-lb.	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.
½ in	9/16 in	1 ⅞ in	**38R271**	2 ⅛ in	**38R282**	1 ⅞ in	**38R293**	2 ⅛ in	**38R305**
¾ in	13/16 in	2 ¼ in	**38R272**	2 ⅝ in	**38R283**	2 ¼ in	**38R294**	2 ⅝ in	**38R306**
1 in	1 1/16 in	2 ⅝ in	**38R273**	2 ⅞ in	**38R284**	2 ⅝ in	**38R295**	2 ⅞ in	**38R307**
1 ¼ in	1 ½ in	3 in	**38R274**	3 ¼ in	**38R285**	3 in	**38R296**	3 ¼ in	**38R308**
1 ½ in	1 ¾ in	3 ⅜ in	**38R275**	3 ¾ in	**38R286**	3 ⅜ in	**38R297**	3 ¾ in	**38R309**
2 in	2 3/16 in	4 ⅛ in	**38R276**	4 ⅜ in	**38R287**	4 ⅛ in	**38R298**	4 ⅜ in	**38R310**
2 ½ in	2 ⅝ in	4 ⅞ in	**38R277**	5 ⅛ in	**38R288**	4 ⅞ in	**38R299**	5 ⅛ in	**38R311**
3 in	3 3/16 in	5 ⅜ in	**38R278**	5 ⅞ in	**38R289**	5 ⅜ in	**38R301**	5 ⅞ in	**38R312**

		FLEXITALLIC CGI							
		304SS and Flexible Graphite				316SS and Flexible Graphite			
		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300-lb.		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300-lb.	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.	Outside Dia.	Item No.
4 in	4 3/16 in	6 ⅞ in	**38R279**	7 ⅛ in	**38R290**	6 ⅞ in	**38R302**	7 ⅛ in	**38R313**
6 in	6 3/16 in	8 ¾ in	**38R280**	9 ⅞ in	**38R291**	8 ¾ in	**38R303**	9 ⅞ in	**38R314**
8 in	8 ½ in	11 in	**38R281**	12 ⅛ in	**38R292**	11 in	**38R304**	12 ⅛ in	**38R315**

		FLEXITALLIC CG			
		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300/400/600-lb.	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.
½ in	¾ in	1 ⅞ in	**38R316**	2 ⅛ in	**38R328**
¾ in	1 in	2 ¼ in	**38R317**	2 ⅝ in	**38R329**
1 in	1 ¼ in	2 ⅝ in	**38R318**	2 ⅞ in	**38R330**
1 ¼ in	1 ⅞ in	3 in	**38R319**	3 ¼ in	**38R331**
1 ½ in	2 ⅛ in	3 ⅜ in	**38R320**	3 ¾ in	**38R332**
2 in	2 ¾ in	4 ⅛ in	**38R321**	4 ⅜ in	**38R333**
2 ½ in	3 ¼ in	4 ⅞ in	**38R322**	5 ⅛ in	**38R334**
3 in	4 in	5 ⅜ in	**38R323**	5 ⅞ in	**38R335**

		FLEXITALLIC CG			
		ANSI Sized to Fit 150-lb.		ANSI Sized to Fit 300-lb.	
Pipe Size	Inside Dia.	Outside Dia.	Item No.	Outside Dia.	Item No.
4 in	5 in	6 ⅞ in	**38R324**	7 ⅛ in	**38R336**
5 in	6 ⅛ in	7 ¾ in	**38R325**	8 ½ in	**38R337**
6 in	7 3/16 in	8 ¾ in	**38R326**	9 ⅞ in	**38R338**
8 in	9 3/16 in	11 in	**38R327**	12 ⅛ in	**38R339**

4UK01

POLY-TEMP® PTFE/ UHF Joint Sealant

Pliable instant flange gasket resists common chemicals and will not deteriorate. 100% expanded PTFE UHF material. Max. pressure: 3000 psi. Meet FDA 21 CFR 177.1550 and 21 CFR 175.105, and CSA Recognized Component.

W	L	Performance Temp. Range	Item No.
¼ in	50 ft	-450° to 600°F	**4UK01**
⅜ in	300 in	-450° to 600°F	**5E141**
½ in	180 in	-450° to 600°F	**5E142**
¾ in	180 in	-450° to 600°F	**5E143**

HOSE MASTER Inc.

6MP27

Corrugated Metal Hoses, 6½"L to 11"L

316 Stainless Steel Corrugated Metal Hoses with 316 Stainless Steel Braided Cover—These corrugated metal hoses have a 316 stainless-steel inner hose with a 316 stainless-steel braided cover (or outer hose). 316 stainless steel provides excellent corrosion resistance and is ideal for industrial chemical-processing applications.

321 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover—These corrugated metal hoses have a 321 stainless-steel inner hose and a 304 stainless-steel braided cover. 321 stainless steel can withstand very high temperatures. It has high strength, resists scaling, and provides phase stability with resistance to subsequent aqueous corrosion. 304 stainless steel can be sanitized. It can withstand corrosion from most oxidizing acids but is susceptible to corrosion from chloride solutions or from high-saline environments like coastal regions.

Hose Fittings	Hose I.D.	Temp. Range	Max. Working Pressure @ 70°F	Dynamic Min. Bend Radius	6 ½ in Item No.	8 in Item No.	9 in Item No.	10 ½ in Item No.	11 in Item No.
316 Stainless Steel Corrugated Metal Hoses with 316 Stainless Steel Braided Cover									
Carbon Steel MNPT x Carbon Steel FNPT	2 in	850°F	525 psi	13.0 in	—	—	—	**49AC21**	—
321 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover									
Carbon Steel 1½ in M Fixed Flange x Carbon Steel 1½ in M Fixed Flange	1 ½ in	32° to 850°F	531 psi	11.0 in	—	—	**2ZV24**	—	—
Carbon Steel ½ in MNPT x Carbon Steel ½ in MNPT	½ in	32° to 850°F	1,186 psi	5.5 in	**6MP27**	—	—	—	—
Carbon Steel 1 in MNPT x Carbon Steel 1 in MNPT	1 in	32° to 850°F	718 psi	9.0 in	—	**6MP33**	—	—	—
Carbon Steel 2 in M Fixed Flange x Carbon Steel 2 in M Fixed Flange	2 in	32° to 850°F	449 psi	13.0 in	—	—	**6MP44**	—	—
Carbon Steel 2 in MNPT x Carbon Steel 2 in MNPT	2 in	32° to 850°F	449 psi	13.0 in	—	—	—	**6MP42**	—
Carbon Steel 3 in M Fixed Flange x Carbon Steel 3 in M Fixed Flange	3 in	32° to 850°F	346 psi	18.0 in	—	—	**6MP46**	—	—
Carbon Steel 4 in M Fixed Flange x Carbon Steel 4 in M Fixed Flange	4 in	32° to 850°F	299 psi	22.0 in	—	—	**6MP47**	—	—
Carbon Steel 6 in M Fixed Flange x Carbon Steel 6 in M Fixed Flange	6 in	32° to 850°F	210 psi	32.0 in	—	—	—	—	**6MP68**

48ZZ44

2ZV47

HOSE MASTER Inc.

Corrugated Metal Hoses, 12"L to 36"L

316 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover—These corrugated metal hoses have a 316 stainless-steel inner hose with a 304 stainless-steel braided cover (or outer hose). 316 stainless steel provides excellent corrosion resistance and is ideal for industrial chemical-processing applications. 304 stainless steel can be sanitized. It can withstand corrosion from most oxidizing acids but is susceptible to corrosion from chloride solutions or from high-saline environments like coastal regions.

316 Stainless Steel Corrugated Metal Hoses with 316 Stainless Steel Braided Cover—These corrugated metal hoses have a 316 stainless-steel inner hose with a 316 stainless-steel braided cover (or outer hose). 316 stainless steel provides excellent corrosion resistance and is ideal for industrial chemical-processing applications.

321 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover—These corrugated metal hoses have a 321 stainless-steel inner hose and a 304 stainless-steel braided cover. 321 stainless steel can withstand very high temperatures. It has high strength, resists scaling, and provides phase stability with resistance to subsequent aqueous corrosion. 304 stainless steel can be sanitized. It can withstand corrosion from most oxidizing acids but is susceptible to corrosion from chloride solutions or from high-saline environments like coastal regions.

Hose Fittings	Hose I.D.	Temp. Range	Dynamic Min. Bend Radius (in.)	Brand	12"L Max. Working Pressure @ 70°F	12"L Item No.	18"L Max. Working Pressure @ 70°F	18"L Item No.	24"L Max. Working Pressure @ 70°F	24"L Item No.	36"L Max. Working Pressure @ 70°F	36"L Item No.
316 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover												
316 Stainless Steel ¼ in MNPT x 316 Stainless Steel ¼ in MNPT	¼ in	-325° to 1200°F	4.5 in	Hose Master	1,800 psi	**4FKH7**	1,800 psi	**4FKH8**	1,800 psi	**4FKH9**	—	—
316 Stainless Steel ⅜ in MNPT x 316 Stainless Steel ⅜ in MNPT	⅜ in	-325° to 1200°F	5 in	Hose Master	—	—	—	—	—	—	1,558 psi	**4FKJ5**
316 Stainless Steel ½ in MNPT x 316 Stainless Steel ½ in FNPT	½ in	-325° to 1200°F	5.5 in	Hose Master	—	—	—	—	1,186 psi	**4FKF3**	1,186 psi	**4FKF4**
316 Stainless Steel ¾ in MNPT x 316 Stainless Steel ¾ in FNPT	¾ in	-325° to 1200°F	8 in	Hose Master	898 psi	**4FKF5**	898 psi	**4FKF6**	898 psi	**4FKF7**	898 psi	**4FKF8**
316 Stainless Steel ¾ in MNPT x 316 Stainless Steel ¾ in MNPT	¾ in	-325° to 1200°F	8 in	Hose Master	—	—	—	—	—	—	898 psi	**4FKK4**
316 Stainless Steel 1 in MNPT x 316 Stainless Steel 1 in FNPT	1 in	-325° to 1200°F	9 in	Hose Master	718 psi	**4FKF9**	718 psi	**4FKG1**	—	—	718 psi	**4FKG3**
316 Stainless Steel 1¼ in MNPT x 316 Stainless Steel 1¼ in FNPT	1 ¼ in	-325° to 1200°F	10 in	Hose Master	645 psi	**4FKG4**	645 psi	**4FKG5**	645 psi	**4FKG6**	—	—
316 Stainless Steel 1¼ in MNPT x 316 Stainless Steel 1¼ in MNPT	1 ¼ in	-325° to 1200°F	10 in	Hose Master	—	—	—	—	645 psi	**4FKL2**	—	—
316 Stainless Steel 1½ in MNPT x 316 Stainless Steel 1½ in FNPT	1 ½ in	-325° to 1200°F	11 in	Hose Master	531 psi	**4FKG8**	531 psi	**4FKG9**	—	—	531 psi	**4FKH2**
316 Stainless Steel 2 in M Floating Flange x 316 Stainless Steel 2 in M Floating Flange	2 in	32° to 850°F	13 in	Hose Master	449 psi	**4FKC4**	449 psi	**4FKC5**	449 psi	**4FKC6**	449 psi	**4FKC7**
316 Stainless Steel 2½ in M Floating Flange x 316 Stainless Steel 2½ in M Floating Flange	2 ½ in	32° to 850°F	16 in	Hose Master	417 psi	**4FKD8**	417 psi	**4FKC8**	417 psi	**4FKC9**	—	—

CONTINUED

CONTINUED

Corrugated Metal Hoses, 12"L to 36"L

HOSE MASTER Inc.

Hose Fittings	Hose I.D.	Temp. Range	Dynamic Min. Bend Radius (in.)	Brand	12"L Max. Working Pressure @ 70°F	12"L Item No.	18"L Max. Working Pressure @ 70°F	18"L Item No.	24"L Max. Working Pressure @ 70°F	24"L Item No.	36"L Max. Working Pressure @ 70°F	36"L Item No.
316 Stainless Steel 2½ in M Floating Flange x 316 Stainless Steel 2½ in M Floating Flange	2 ½ in	32° to 850°F	18 in	Hose Master	—	—	—	—	—	—	417 psi	**4FKD1**
316 Stainless Steel 2 in MNPT x 316 Stainless Steel 2 in FNPT	2 in	-325° to 1200°F	13 in	Hose Master	449 psi	**4FKH3**	—	—	—	—	—	—
316 Stainless Steel 2 in MNPT x 316 Stainless Steel 2 in MNPT	2 in	-325° to 1200°F	13 in	Hose Master	—	—	449 psi	**4FKL9**	—	—	—	—
316 Stainless Steel 3 in M Floating Flange x 316 Stainless Steel 3 in M Floating Flange	3 in	32° to 850°F	18 in	Hose Master	346 psi	**4FKD9**	346 psi	**4FKD2**	—	—	—	—
316 Stainless Steel 3 in M Floating Flange x 316 Stainless Steel 3 in M Floating Flange	3 in	32° to 850°F	22 in	Hose Master	—	—	—	—	346 psi	**4FKD3**	346 psi	**4FKD4**
316 Stainless Steel 4 in M Floating Flange x 316 Stainless Steel 4 in M Floating Flange	4 in	32° to 850°F	22 in	Hose Master	299 psi	**4FKE1**	299 psi	**4FKD5**	299 psi	**4FKD6**	299 psi	**4FKD7**

Hose Fittings	Hose I.D.	Temp. Range	Dynamic Min. Bend Radius	12"L Max. Working Pressure @ 70°F	12"L Item No.	18"L Max. Working Pressure @ 70°F	18"L Item No.	24"L Max. Working Pressure @ 70°F	24"L Item No.	36"L Max. Working Pressure @ 70°F	36"L Item No.
316 Stainless Steel Corrugated Metal Hoses with 316 Stainless Steel Braided Cover											
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	¼"	1200°F	5.0 in	300 psi	**48ZZ44**	—	—	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	½"	1200°F	5.0 in	300 psi	**48ZZ52**	300 psi	**48ZZ53**	300 psi	**48ZZ54**	300 psi	**48ZZ55**
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	¾"	1200°F	8.0 in	300 psi	**48ZZ56**	—	—	300 psi	**48ZZ58**	300 psi	**48ZZ59**
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	1"	1200°F	9.0 in	300 psi	**48ZZ60**	300 psi	**48ZZ61**	300 psi	**48ZZ62**	300 psi	**48ZZ63**
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	1¼"	1200°F	10.0 in	—	—	300 psi	**48ZZ64**	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	1½"	1200°F	11.0 in	—	—	—	—	300 psi	**48ZZ68**	—	—
304 Stainless Steel MNPT x 304 Stainless Steel 150 LB FNPT	2"	1200°F	13.0 in	—	—	300 psi	**48ZZ70**	300 psi	**48ZZ71**	300 psi	**48ZZ72**
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	¼"	1200°F	5.0 in	2,400 psi	**49AC03**	—	—	2,400 psi	**48ZZ95**	—	—
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	½"	1200°F	5.0 in	1,175 psi	**49AC08**	—	—	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	¾"	1200°F	8.0 in	925 psi	**49AC11**	925 psi	**49AA04**	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	1"	1200°F	9.0 in	—	—	650 psi	**49AA07**	—	—	650 psi	**49AA09**
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	1¼"	1200°F	10.0 in	—	—	—	—	300 psi	**48ZZ65**	—	—
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	1¼"	1200°F	10.0 in	—	—	—	—	575 psi	**49AA10**	—	—
304 Stainless Steel MNPT x 304 Stainless Steel FNPT	2"	1200°F	13.0 in	—	—	—	—	525 psi	**49AA14**	—	—
304 Stainless Steel MNPT x 304 Stainless Steel MNPT	1¼"	1200°F	10.0 in	575 psi	**49AA16**	—	—	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel MNPT	1½"	1200°F	11.0 in	531 psi	**49AA17**	—	—	—	—	—	—
304 Stainless Steel MNPT x 304 Stainless Steel MNPT	2"	1200°F	13.0 in	—	—	525 psi	**49AC23**	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel 150 lb FNPT	¾"	1200°F	8.0 in	—	—	300 psi	**49AA41**	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel 150 lb FNPT	1"	1200°F	9.0 in	300 psi	**49AA44**	—	—	300 psi	**49AA46**	300 psi	**49AA47**
316 Stainless Steel MNPT x 316 Stainless Steel 150 lb FNPT	1¼"	1200°F	10.0 in	300 psi	**49AA48**	—	—	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel 150 lb FNPT	1½"	1200°F	11.0 in	300 psi	**49AA52**	—	—	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel 150 lb FNPT	2"	1200°F	13.0 in	300 psi	**49AA56**	—	—	—	—	300 psi	**49AA59**
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	¼"	1200°F	5.0 in	—	—	2,400 psi	**49AA61**	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	⅜"	1200°F	5.0 in	—	—	—	—	—	—	1,800 psi	**49AA67**
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	½"	1200°F	5.0 in	—	—	1,175 psi	**49AA69**	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	¾"	1200°F	8.0 in	925 psi	**49AA72**	—	—	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	1¼"	1200°F	10.0 in	—	—	575 psi	**49AA81**	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	1½"	1200°F	11.0 in	531 psi	**49AA84**	—	—	—	—	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	2"	1200°F	13.0 in	—	—	—	—	525 psi	**49AA90**	—	—
316 Stainless Steel MNPT x 316 Stainless Steel FNPT	3"	1200°F	19.0 in	—	—	335 psi	**49AA95**	—	—	—	—
Carbon Steel Male NPT x Malleable Iron	½"	850°F	5.0 in	300 psi	**48ZZ23**	—	—	—	—	300 psi	**48ZZ26**
Carbon Steel Male NPT x Malleable Iron	¾"	850°F	8.0 in	300 psi	**48ZZ27**	—	—	300 psi	**48ZZ29**	300 psi	**48ZZ30**
Carbon Steel Male NPT x Malleable Iron	1"	850°F	9.0 in	300 psi	**48ZZ31**	—	—	300 psi	**48ZZ33**	300 psi	**48ZZ34**
Carbon Steel Male NPT x Malleable Iron	1¼"	850°F	10.0 in	—	—	300 psi	**48ZZ35**	300 psi	**48ZZ36**	300 psi	**48ZZ37**
Carbon Steel Male NPT x Malleable Iron	1½"	850°F	11.0 in	—	—	—	—	300 psi	**48ZZ39**	—	—
Carbon Steel Male NPT x Malleable Iron	2"	850°F	13.0 in	—	—	300 psi	**48ZZ41**	300 psi	**48ZZ42**	—	—
Carbon Steel MNPT x Carbon Steel FNPT	¼"	850°F	5.0 in	2,400 psi	**49AC02**	—	—	—	—	—	—
Carbon Steel MNPT x Carbon Steel FNPT	½"	850°F	5.0 in	—	—	1,175 psi	**48ZZ79**	1,175 psi	**48ZZ80**	—	—
Carbon Steel MNPT x Carbon Steel FNPT	¾"	850°F	8.0 in	—	—	—	—	925 psi	**48ZZ83**	—	—
Carbon Steel MNPT x Carbon Steel FNPT	1¼"	850°F	10.0 in	—	—	—	—	—	—	575 psi	**48ZZ89**
Carbon Steel MNPT x Carbon Steel FNPT	1½"	850°F	11.0 in	—	—	—	—	531 psi	**48ZZ90**	—	—
Carbon Steel MNPT x Carbon Steel MNPT	1"	850°F	9.0 in	—	—	—	—	—	—	650 psi	**48ZZ87**

Hose Fittings	Hose I.D.	Temp. Range	Dynamic Min. Bend Radius	Brand	12"L Max. Working Pressure @ 70°F	12"L Item No.	18"L Max. Working Pressure @ 70°F	18"L Item No.	24"L Max. Working Pressure @ 70°F	24"L Item No.	36"L Max. Working Pressure @ 70°F	36"L Item No.
321 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover												
304 Stainless Steel ¼ in MNPT x 304 Stainless Steel ¼ in FNPT	¼ in	-325° to 1200°F	3.7 in	Hose Master	1,800 psi	**4FJN7**	1,800 psi	**4FJN8**	1,800 psi	**4FJN9**	1,800 psi	**4FJP1**
304 Stainless Steel ¼ in MNPT x 304 Stainless Steel ¼ in FNPT	¼ in	-325° to 1200°F	4.5 in	Hose Master	—	—	1,800 psi	**1CWB5**	—	—	—	—
304 Stainless Steel ¼ in MNPT x 304 Stainless Steel ¼ in MNPT	¼ in	-325° to 1200°F	3.7 in	Hose Master	1,800 psi	**4FJU3**	1,800 psi	**4FJU4**	1,800 psi	**4FJU5**	1,800 psi	**4FJU6**
304 Stainless Steel ¼ in MNPT x 304 Stainless Steel ¼ in MNPT	¼ in	-325° to 1200°F	4.5 in	Hose Master	—	—	1,800 psi	**2ZV47**	1,800 psi	**2ZV48**	—	—
304 Stainless Steel ¼ in MNPT x 316 Stainless Steel ¼ in F JIC	¼ in	-325° to 1200°F	4.5 in	Hose Master	1,800 psi	**1LMZ9**	1,800 psi	**1LNA1**	1,800 psi	**1LNA2**	1,800 psi	**1LNA3**
304 Stainless Steel ⅜ in MNPT x 304 Stainless Steel ⅜ in FNPT	⅜ in	-325° to 1200°F	4 in	Hose Master	1,558 psi	**4FJP2**	1,558 psi	**4FJP3**	1,558 psi	**4FJP4**	1,558 psi	**4FJP5**
304 Stainless Steel ⅜ in MNPT x 304 Stainless Steel ⅜ in MNPT	⅜ in	-325° to 1200°F	4 in	Hose Master	1,558 psi	**4FJU7**	1,558 psi	**4FJU8**	1,558 psi	**4FJU9**	1,558 psi	**4FJV1**
304 Stainless Steel ⅜ in MNPT x 304 Stainless Steel ⅜ in MNPT	⅜ in	-325° to 1200°F	5.0 in	Hose Master	1,558 psi	**6MP26**	—	—	1,558 psi	**2ZV51**	1,558 psi	**2ZV52**
304 Stainless Steel ⅜ in MNPT x 316 Stainless Steel ⅜ in F JIC	⅜ in	-325° to 1200°F	5.0 in	Hose Master	1,558 psi	**1LNA4**	1,558 psi	**1LNA5**	1,558 psi	**1LNA6**	1,558 psi	**1LNA7**
304 Stainless Steel ½ in MNPT x 304 Stainless Steel ½ in FNPT	½ in	-325° to 1200°F	4.4 in	Hose Master	1,186 psi	**4FJP6**	1,186 psi	**4FJP7**	1,186 psi	**4FJP8**	1,186 psi	**4FJP9**
304 Stainless Steel ½ in MNPT x 304 Stainless Steel ½ in FNPT	½ in	-325° to 1200°F	5.5 in	Hose Master	1,186 psi	**1LMV8**	1,186 psi	**1LMV9**	1,186 psi	**1LMW1**	1,186 psi	**1LMW2**
304 Stainless Steel ½ in MNPT x 304 Stainless Steel ½ in MNPT	½ in	-325° to 1200°F	4.4 in	Hose Master	1,186 psi	**4FJV2**	1,186 psi	**4FJV3**	1,186 psi	**4FJV4**	1,186 psi	**4FJV5**
304 Stainless Steel ½ in MNPT x 304 Stainless Steel ½ in MNPT	½ in	-325° to 1200°F	5.5 in	Hose Master	—	—	—	—	1,186 psi	**2ZV54**	1,186 psi	**2ZV55**
304 Stainless Steel ½ in MNPT x 316 Stainless Steel ½ in F JIC	½ in	-325° to 1200°F	5.5 in	Hose Master	1,186 psi	**1LNA8**	1,186 psi	**1LNA9**	1,186 psi	**1LNB1**	1,186 psi	**1LNB2**
304 Stainless Steel ¾ in MNPT x 304 Stainless Steel ¾ in FNPT	¾ in	-325° to 1200°F	6.4 in	Hose Master	898 psi	**4FJR1**	898 psi	**4FJR2**	898 psi	**4FJR3**	898 psi	**4FJR4**
304 Stainless Steel ¾ in MNPT x 304 Stainless Steel ¾ in FNPT	¾ in	-325° to 1200°F	8.0 in	Hose Master	898 psi	**1LMW3**	898 psi	**1LMW4**	898 psi	**1LMW5**	898 psi	**1LMW6**
304 Stainless Steel ¾ in MNPT x 304 Stainless Steel ¾ in MNPT	¾ in	-325° to 1200°F	6.4 in	Hose Master	898 psi	**4FJV6**	898 psi	**4FJV7**	898 psi	**4FJV8**	898 psi	**4FJV9**
304 Stainless Steel ¾ in MNPT x 304 Stainless Steel ¾ in MNPT	¾ in	-325° to 1200°F	8.0 in	Hose Master	—	—	—	—	—	—	898 psi	**2ZV58**
304 Stainless Steel ¾ in MNPT x 316 Stainless Steel ¾ in F JIC	¾ in	-325° to 1200°F	8.0 in	Hose Master	898 psi	**1LNB3**	898 psi	**1LNB4**	898 psi	**1LNB5**	898 psi	**1LNB6**
304 Stainless Steel 1 in MNPT x 304 Stainless Steel 1 in FNPT	1 in	-325° to 1200°F	7.1 in	Hose Master	718 psi	**4FJR5**	718 psi	**4FJR6**	718 psi	**4FJR7**	718 psi	**4FJR8**
304 Stainless Steel 1 in MNPT x 304 Stainless Steel 1 in FNPT	1 in	-325° to 1200°F	9.0 in	Hose Master	718 psi	**1LMW7**	718 psi	**1LMW8**	718 psi	**1LMW9**	—	—
304 Stainless Steel 1 in MNPT x 304 Stainless Steel 1 in MNPT	1 in	-325° to 1200°F	7.1 in	Hose Master	718 psi	**4FJW1**	718 psi	**4FJW2**	718 psi	**4FJW3**	718 psi	**4FJW4**
304 Stainless Steel 1 in MNPT x 304 Stainless Steel 1 in MNPT	1 in	-325° to 1200°F	9.0 in	Hose Master	718 psi	**6MP35**	—	—	—	—	—	—
304 Stainless Steel 1 in MNPT x 316 Stainless Steel 1 in F JIC	1 in	-325° to 1200°F	9.0 in	Hose Master	718 psi	**1LNB7**	718 psi	**1LNB8**	718 psi	**1LNB9**	718 psi	**1LNC1**
304 Stainless Steel 1¼ in MNPT x 304 Stainless Steel 1¼ in FNPT	1 ¼ in	-325° to 1200°F	7.9 in	Hose Master	645 psi	**4FJR9**	645 psi	**4FJT1**	645 psi	**4FJT2**	645 psi	**4FJT3**
304 Stainless Steel 1¼ in MNPT x 304 Stainless Steel 1¼ in FNPT	1 ¼ in	-325° to 1200°F	10.0 in	Hose Master	—	—	—	—	—	—	645 psi	**1LMX4**
304 Stainless Steel 1¼ in MNPT x 304 Stainless Steel 1¼ in MNPT	1 ¼ in	-325° to 1200°F	7.9 in	Hose Master	645 psi	**4FJW5**	645 psi	**4FJW6**	645 psi	**4FJW7**	645 psi	**4FJW8**
304 Stainless Steel 1¼ in MNPT x 304 Stainless Steel 1¼ in MNPT	1 ¼ in	-325° to 1200°F	10.0 in	Hose Master	645 psi	**4FJL4**	645 psi	**6MP38**	645 psi	**2ZV62**	—	—
304 Stainless Steel 1¼ in MNPT x 316 Stainless Steel 1¼ in F JIC	1 ¼ in	-325° to 1200°F	10.0 in	Hose Master	—	—	645 psi	**1LNC2**	645 psi	**1LNC3**	645 psi	**1LNC4**
304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in FNPT	1 ½ in	-325° to 1200°F	8.7 in	Hose Master	531 psi	**4FJT4**	531 psi	**4FJT5**	531 psi	**4FJT6**	531 psi	**4FJT7**
304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in FNPT	1 ½ in	-325° to 1200°F	11.0 in	Hose Master	—	—	531 psi	**1LMX5**	531 psi	**1LMX6**	531 psi	**1LMX7**
304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in MNPT	1 ½ in	-325° to 1200°F	8.7 in	Hose Master	531 psi	**4FJW9**	531 psi	**4FJX1**	531 psi	**4FJX2**	531 psi	**4FJX3**
304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in MNPT	1 ½ in	-325° to 1200°F	11.0 in	Hose Master	—	—	531 psi	**6MP41**	531 psi	**2ZV64**	—	—
304 Stainless Steel 1½ in MNPT x 316 Stainless Steel 1½ in F JIC	1 ½ in	-325° to 1200°F	11.0 in	Hose Master	—	—	531 psi	**1LNC5**	531 psi	**1LNC6**	531 psi	**1LNC7**
304 Stainless Steel 2 in MNPT x 304 Stainless Steel 2 in FNPT	2 in	-325° to 1200°F	10.3 in	Hose Master	449 psi	**4FJT8**	449 psi	**4FJT9**	449 psi	**4FJU1**	449 psi	**4FJU2**
304 Stainless Steel 2 in MNPT x 304 Stainless Steel 2 in FNPT	2 in	-325° to 1200°F	13.0 in	Hose Master	—	—	449 psi	**1LMX8**	449 psi	**1LMX9**	449 psi	**1LMY1**
304 Stainless Steel 2 in MNPT x 304 Stainless Steel 2 in MNPT	2 in	-325° to 1200°F	10.3 in	Hose Master	449 psi	**4FJX4**	449 psi	**4FJX5**	449 psi	**4FJX6**	449 psi	**4FJX7**
304 Stainless Steel 2 in MNPT x 304 Stainless Steel 2 in MNPT	2 in	-325° to 1200°F	13.0 in	Hose Master	—	—	—	—	—	—	449 psi	**2ZV67**

CONTINUED

HOSE MASTER Inc.

Corrugated Metal Hoses, 12"L to 36"L

Hose Fittings	Hose I.D.	Temp. Range	Dynamic Min. Bend Radius	Brand	12"L Max. Working Pressure @ 70°F	12"L Item No.	18"L Max. Working Pressure @ 70°F	18"L Item No.	24"L Max. Working Pressure @ 70°F	24"L Item No.	36"L Max. Working Pressure @ 70°F	36"L Item No.
321 Stainless Steel Corrugated Metal Hoses with 304 Stainless Steel Braided Cover (Cont.)												
304 Stainless Steel 2 in MNPT x 316 Stainless Steel 2 in F JIC	2 in	-325° to 1200°F	13.0 in	Hose Master	—	—	449 psi	**1LNC8**	449 psi	**1LNC9**	449 psi	**1LND1**
316 Stainless Steel ¼ in MNPT x 316 Stainless Steel ¼ in F JIC	¼ in	-325° to 1200°F	4.5 in	Hose Master	1,800 psi	**4FJX8**	1,800 psi	**4FJX9**	1,800 psi	**4FJY1**	1,800 psi	**4FJY2**
316 Stainless Steel ⅜ in MNPT x 316 Stainless Steel ⅜ in F JIC	⅜ in	-325° to 1200°F	5 in	Hose Master	1,558 psi	**4FJY3**	1,558 psi	**4FJY4**	1,558 psi	**4FJY5**	1,558 psi	**4FJY6**
316 Stainless Steel ½ in MNPT x 316 Stainless Steel ½ in F JIC	½ in	-325° to 1200°F	5.5 in	Hose Master	1,186 psi	**4FJY7**	1,186 psi	**4FJY8**	1,186 psi	**4FJY9**	1,186 psi	**4FJZ1**
316 Stainless Steel ¾ in MNPT x 316 Stainless Steel ¾ in F JIC	¾ in	-325° to 1200°F	8 in	Hose Master	898 psi	**4FJZ2**	898 psi	**4FJZ3**	898 psi	**4FJZ4**	898 psi	**4FJZ5**
316 Stainless Steel 1 in MNPT x 316 Stainless Steel 1 in F JIC	1 in	-325° to 1200°F	9 in	Hose Master	718 psi	**4FJZ6**	718 psi	**4FJZ7**	718 psi	**4FJZ8**	718 psi	**4FJZ9**
316 Stainless Steel 1¼ in MNPT x 316 Stainless Steel 1¼ in F JIC	1 ¼ in	-325° to 1200°F	10.0 in	Hose Master	645 psi	**4FKA1**	645 psi	**4FKA2**	645 psi	**4FKA3**	645 psi	**4FKA4**
316 Stainless Steel 1½ in MNPT x 316 Stainless Steel 1½ in F JIC	1 ½ in	-325° to 1200°F	11 in	Hose Master	531 psi	**4FKA5**	531 psi	**4FKA6**	531 psi	**4FKA7**	531 psi	**4FKA8**
316 Stainless Steel 2 in MNPT x 316 Stainless Steel 2 in F JIC	2 in	-325° to 1200°F	13 in	Hose Master	449 psi	**4FKA9**	449 psi	**4FKC1**	449 psi	**4FKC2**	449 psi	**4FKC3**
Carbon Steel ¼ in MNPT x Carbon Steel ¼ in MNPT	¼ in	32° to 850°F	4.5 in	Hose Master	1,800 psi	**6MP22**	—	—	—	—	—	—
Carbon Steel ⅜ in MNPT x Carbon Steel ⅜ in MNPT	⅜ in	32° to 850°F	5.0 in	Hose Master	—	—	—	—	1,558 psi	**2ZV30**	1,558 psi	**2ZV31**
Carbon Steel ⅜ in MNPT x Malleable Iron ⅜ in FNPT	⅜ in	32° to 850°F	5.0 in	Hose Master	—	—	—	—	1,558 psi	**1CVX8**	1,558 psi	**1CVX9**
Carbon Steel ½ in MNPT x Carbon Steel ½ in MNPT	½ in	32° to 850°F	5.5 in	Hose Master	1,186 psi	**6MP28**	—	—	—	—	1,186 psi	**2ZV34**
Carbon Steel ½ in MNPT x Malleable Iron ½ in FNPT	½ in	32° to 850°F	5.5 in	Hose Master	—	—	1,186 psi	**1CVZ2**	1,186 psi	**1CVZ3**	—	—
Carbon Steel ¾ in MNPT x Carbon Steel ¾ in MNPT	¾ in	32° to 850°F	8.0 in	Hose Master	—	—	—	—	898 psi	**2ZV36**	—	—
Carbon Steel ¾ in MNPT x Malleable Iron ¾ in FNPT	¾ in	32° to 850°F	8.0 in	Hose Master	898 psi	**1CVZ5**	898 psi	**1CVZ6**	898 psi	**1CVZ7**	—	—
Carbon Steel 1 in MNPT x Carbon Steel 1 in MNPT	1 in	32° to 850°F	9.0 in	Hose Master	718 psi	**6MP34**	—	—	—	—	—	—
Carbon Steel 1 in MNPT x Malleable Iron 1 in FNPT	1 in	32° to 850°F	9.0 in	Hose Master	718 psi	**1CVZ9**	718 psi	**1CWA1**	718 psi	**1CWA2**	718 psi	**1CWA3**
Carbon Steel 1¼ in MNPT x Malleable Iron 1¼ in FNPT	1 ¼ in	32° to 850°F	10.0 in	Hose Master	—	—	645 psi	**1CWA4**	645 psi	**1CWA5**	645 psi	**1CWA6**
Carbon Steel 1½ in M Fixed Flange x 304 Stainless Steel 1½ in M Floating Flange	1 ½ in	32° to 850°F	11.0 in	Hose Master	531 psi	**1LMY2**	531 psi	**1LMY3**	531 psi	**1LMY4**	531 psi	**1LMY5**
Carbon Steel 1½ in MNPT x Carbon Steel 1½ in MNPT	1 ½ in	32° to 850°F	11.0 in	Hose Master	—	—	531 psi	**6MP40**	531 psi	**2ZV43**	—	—
Carbon Steel 1½ in MNPT x Malleable Iron 1½ in FNPT	1 ½ in	32° to 850°F	11.0 in	Hose Master	—	—	531 psi	**1CWA7**	531 psi	**1CWA8**	—	—
Carbon Steel 2 in M Fixed Flange x 304 Stainless Steel 2 in M Floating Flange	2 in	32° to 850°F	13.0 in	Hose Master	449 psi	**1LMY6**	449 psi	**1LMY7**	449 psi	**1LMY8**	449 psi	**1LMY9**
Carbon Steel 2 in MNPT x Carbon Steel 2 in MNPT	2 in	32° to 850°F	13.0 in	Hose Master	—	—	449 psi	**6MP43**	—	—	—	—
Carbon Steel 2 in MNPT x Malleable Iron 2 in FNPT	2 in	32° to 850°F	13.0 in	Hose Master	—	—	449 psi	**1CWB1**	—	—	—	—
Carbon Steel 3 in M Fixed Flange x 304 Stainless Steel 3 in M Floating Flange	3 in	32° to 850°F	18.0 in	Hose Master	346 psi	**1LMZ1**	346 psi	**1LMZ2**	346 psi	**1LMZ3**	346 psi	**1LMZ4**
Carbon Steel 4 in M Fixed Flange x 304 Stainless Steel 4 in M Floating Flange	4 in	32° to 850°F	22.0 in	Hose Master	299 psi	**1LMZ5**	299 psi	**1LMZ6**	299 psi	**1LMZ7**	299 psi	**1LMZ8**
Carbon Steel 8 in M Fixed Flange x Carbon Steel 8 in M Fixed Flange	8 in	32° to 850°F	40.0 in	Hose Master	250 psi	**2ZV25**	—	—	—	—	—	—

Roughbore
16T775

Interlocked Metal Hose Assemblies

HOSE MASTER Inc.

- Temp. range: -325° to 1200°F

Interlocked metal hoses are made from a single strip of metal that is profiled and locked onto itself. They are also known as stripwound metal hose. The hoses' overlapping, or interlocked, sections can slide back and forth to allow the hoses to flex.

Roughbore—Roughbore interlocked metal hoses have a rough interior. They are used for high-temperature ducting or hot-air blower applications, engine exhaust, loading and unloading trailers and railcars, grain vacuuming, transferring abrasive materials, dust collection, and as an protective outer cover for other hoses.

Smoothbore—Smoothbore interlocked metal hoses have a smooth, abrasion-resistant internal metal liner that helps prevent damage to products being conveyed inside the hose and prevents material from building up inside the hose and restricting flow. These hoses are used for transferring plastic pellets, grain, wood chips, and other abrasive media and for loading and unloading trailers and railcars.

Hose I.D.	Hose Fittings	Bend Radius	6 ft Item No.	8 ft Item No.	10 ft Item No.	12 ft Item No.	14 ft Item No.	16 ft Item No.	18 ft Item No.	20 ft Item No.	25 ft Item No.
Roughbore Interlocked Metal Hoses											
1 ½ in	304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in MNPT	6 in	**16T775**	**16T776**	**16T777**	**16T778**	**16T779**	**16T780**	**16T781**	**16T782**	—
2 in	304 Stainless Steel 2 in MNPT x 304 Stainless Steel 2 in MNPT	8 in	**16T783**	**16T784**	**16T785**	**16T786**	**16T787**	**16T788**	**16T789**	**16T790**	—
3 in	304 Stainless Steel 3 in MNPT x 304 Stainless Steel 3 in MNPT	12 in	**16T791**	**16T792**	**16T793**	**16T794**	**16T795**	**16T796**	**16T797**	**16T798**	—
4 in	304 Stainless Steel 4 in MNPT x 304 Stainless Steel 4 in MNPT	16 in	**16T799**	**16T801**	**16T802**	**16T803**	**16T804**	**16T805**	**16T806**	**16T807**	—
5 in	304 Stainless Steel 5 in MNPT x 304 Stainless Steel 5 in MNPT	19 in	**16T808**	**16T809**	**16T810**	**16T811**	**16T812**	**16T813**	**16T814**	**16T815**	—
6 in	304 Stainless Steel 6 in MNPT x 304 Stainless Steel 6 in MNPT	23 in	**16T816**	**16T817**	**16T818**	**16T819**	**16T820**	**16T821**	**16T822**	**16T823**	—
Smoothbore Interlocked Metal Hoses											
1 ½ in	304 Stainless Steel 1½ in MNPT x 304 Stainless Steel 1½ in MNPT	8 in	**16T824**	**16T825**	**16T826**	**16T827**	**16T828**	**16T829**	**16T830**	**16T831**	**16T832**
2 ½ in	304 Stainless Steel 2½ in MNPT x 304 Stainless Steel 2½ in MNPT	12 in	**16T833**	**16T834**	**16T835**	**16T836**	**16T837**	**16T838**	**16T839**	**16T840**	**16T841**
3 in	304 Stainless Steel 3 in MNPT x 304 Stainless Steel 3 in MNPT	14 in	**16T842**	**16T843**	**16T844**	**16T845**	**16T846**	**16T847**	**16T848**	**16T849**	**16T850**
4 in	304 Stainless Steel 4 in MNPT x 304 Stainless Steel 4 in MNPT	18 in	**16T851**	**16T852**	**16T853**	**16T854**	**16T855**	**16T856**	**16T857**	**16T858**	**16T859**
5 in	304 Stainless Steel 5 in MNPT x 304 Stainless Steel 5 in MNPT	23 in	**16T860**	**16T861**	**16T862**	**16T863**	**16T864**	**16T865**	**16T866**	**16T867**	**16T868**
6 in	304 Stainless Steel 6 in MNPT x 304 Stainless Steel 6 in MNPT	27 in	**16T869**	**16T870**	**16T871**	**16T872**	**16T873**	**16T874**	**16T875**	**16T876**	**16T877**

Molded Expansion Joints

- Max. pressure (Drilled): 225 psi at 72°F
- Max. pressure (Flanged): 231 psi

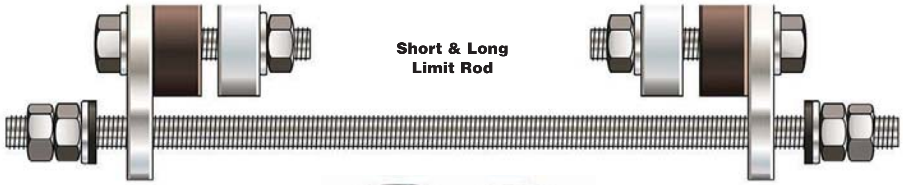
Flexible, nonmetallic joints absorb pipe movement/stress to reduce system noise and extend system life. Models can also absorb water pulsation and minimize water hammer. Single Sphere models help prevent piping system damage by absorbing contraction and elongation movement caused by temperature variances. The floating flanges ease installation. Double Sphere models help prevent piping system damage by absorbing greater contraction, elongation, and angular movement than single sphere models. Also act as a good electrical insulator. Corrosion-resistant plated carbon steel flanges rotate for quick installation. Neoprene connectors are tapped to ANSI 125/150 drilling. All joints are ideal for use in HVAC, petrochemical, industrial piping, power generating, marine service, pulp and paper, water and wastewater, and pollution control applications.

1CZD9

1CZD5

1CZF4

							Single Sphere				Double Sphere			
							EPDM		Neoprene		EPDM		Neoprene	
Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Temp. Range	Vacuum	Flange Thickness (in.)	Overall Length (in.)	Item No.	Overall Length (in.)	Item No.	Overall Length (in.)	Item No.	Overall Length (in.)	Item No.
Drilled														
1"	4¼"	4	½ in -13	-50 to 230°F	26" Hg @ 72°F	0.55	6	**1CZD9**	6	**1CZD2**	—	—	—	—
1½"	5"	4	½ in -13	-50 to 230°F	26" Hg @ 72°F	0.55	6	**1CZE1**	6	**1CZC9**	7	**1CZF8**	7	**1CZE9**
2"	6"	4	⅝ in -11	-50 to 230°F	26" Hg @ 72°F	0.63	6	**1CZE2**	6	**1CZD1**	7	**1CZF9**	—	—
2"	6"	4	¾ in	-50 to 230°F	26" Hg @ 72°F	0.63	—	—	—	—	—	—	7	**1CZF1**
2½"	7"	4	⅝ in -11	-50 to 230°F	26" Hg @ 72°F	0.71	6	**1CZE3**	6	**1CZD3**	7	**1CZG1**	7	**1CZF2**
3"	7½"	4	⅝ in -11	-50 to 230°F	26" Hg @ 72°F	0.71	6	**1CZE4**	6	**1CZD4**	7	**1CZG2**	7	**1CZF3**
4"	9"	8	⅝ in -11	-50 to 230°F	26" Hg @ 72°F	0.71	6	**1CZE5**	6	**1CZD5**	9	**1CZG3**	9	**1CZF4**
5"	10"	8	¾ in -10	-50 to 230°F	26" Hg @ 72°F	0.79	6	**1CZE6**	6	**1CZD6**	9	**1CZG4**	9	**1CZF5**
6"	11"	8	¾ in -10	-50 to 230°F	26" Hg @ 72°F	0.87	6	**1CZE7**	6	**1CZD7**	9	**1CZG5**	9	**1CZF6**
8"	13½"	8	¾ in -10	-50 to 230°F	26" Hg @ 72°F	0.87	6	**1CZE8**	6	**1CZD8**	13	**1CZG6**	13	**1CZF7**
Flanged														
1"	—	4	0.63 in	170°F	26" Hg @ 72°F	0.55	—	—	—	—	—	—	6	**45RF83**
1"	—	4	0.63 in	210°F	26" Hg @ 72°F	0.55	—	—	—	—	5 in	**45RF85**	—	—
1¼"	—	4	0.63 in	170°F	26" Hg @ 72°F	0.63	—	—	6	**45RF81**	—	—	6	**45RF84**
1¼"	—	4	0.63 in	210°F	26" Hg @ 72°F	0.63	6	**45RF82**	—	—	6	**45RF86**	—	—
10"	—	12	1 in	170°F	10" Hg @ 72°F	0.91	8	**45RF77**	—	—	—	—	8	**45RF87**
10"	—	12	1 in	210°F	10" Hg @ 72°F	0.91	8	**45RF79**	—	—	8	**45RF89**	—	—
12"	—	12	1 in	170°F	3" Hg @ 72°F	0.95	8	**45RF78**	—	—	—	—	8	**45RF88**
12"	—	12	1 in	210°F	3" Hg @ 72°F	0.95	8	**45RF80**	—	—	8	**45RF90**	—	—


Short & Long Limit Rod

Wide Arch

Threaded Union

Wide Arch and Threaded Union Molded Expansion Joints

Use to help reduce vibration and dampen sound transmission. Meet ANSI B16.5.

SHORT AND LONG LIMIT ROD

This assembly consists of 2 control rods (tie rods) placed across an expansion joint from flange to flange to help prevent damage caused by excessive pipe movement. Designed to only limit extension movement. Flanged connection.

WIDE ARCH

- Max. pressure: 150 psi
- Temp. range (EPDM): -50° to 240°F
- Temp. range (Neoprene): -50° to 212.5°F
- Vacuum: 15" Hg at 72°F

Feature a larger arch and allow for greater movement and lower spring rate than traditional spool-type rubber expansion joints. Flanged connection.

THREADED UNION

- Max. pressure: 150 psi
- Temp. range: - 50° to 194°F
- Vacuum: 26" Hg at 72°F

Designed to absorb thermal movement, offset, and misalignment in most piping systems, and to protect piping from start-up vibration and system surges. The neoprene or EPDM body eliminates metal-to-metal contact and helps prevent electrolytic action. Tapped holes connection.

Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Flange Thickness	Short Limit Rod Item No.	Long Limit Rod Item No.
1 in	8 ⅜ in	2	⅝ in	0.43 in	**45NE92**	**45NF05**
1 ¼ in	9 ¾ in	2	⅝ in	0.43 in	**45NE93**	**45NF06**
1 ½ in	9 ⅞ in	2	⅝ in	0.43 in	**45NE94**	**45NF07**
2 in	11 ¼ in	2	¾ in	0.43 in	**45NE95**	**45NF08**
2 ½ in	12 ¼ in	2	¾ in	0.43 in	**45NE96**	**45NF09**
3 in	13 ¼ in	2	¾ in	0.43 in	**45NE97**	**45NF10**
4 in	13 ½ in	2	¾ in	0.43 in	**45NE98**	**45NF11**
5 in	14 ½ in	2	⅞ in	0.43 in	**45NE99**	**45NF12**
6 in	15 ½ in	2	⅞ in	0.43 in	**45NF01**	**45NF13**
8 in	—	2	⅞ in	0.43 in	**45NF02**	**45NF14**
10 in	21 ⅝ in	2	1 in	0.75 in	**45NF03**	**45NF15**
12 in	—	2	1 in	0.75 in	**45NF04**	**45NF16**

						Wide Arch	
Pipe Size	Outside Dia.	Bolt Holes	Bolt Hole Size	Overall Length	Flange Thickness	EPDM Item No.	Neoprene Item No.
2 in	6 in	4	¾ in	6 in	0.75 in	**45NE58**	**45NE67**
2 ½ in	7 in	4	¾ in	6 in	0.87 in	**45NE59**	**45NE68**
3 in	7 ½ in	4	¾ in	6 in	0.93 in	**45NE60**	**45NE69**
4 in	9 in	8	¾ in	6 in	0.93 in	**45NE61**	**45NE70**
5 in	10 in	8	⅞ in	6 in	0.93 in	**45NE62**	**45NE71**
6 in	11 in	8	⅞ in	6 in	1 in	**45NE63**	**45NE72**
8 in	13 ½ in	8	⅞ in	6 in	1.12 in	**45NE64**	**45NE73**
10 in	16 in	12	1 in	8 in	1.18 in	**45NE65**	**45NE74**
12 in	19 in	12	1 in	8 in	1.25 in	**45NE66**	**45NE75**

		Threaded Union		
Pipe Size	Overall Length	EPDM Item No.	Neoprene Item No.	Galvanized Item No.
½ in	8 in	**45NE76**	**45NE84**	—
¾ in	8 in	**45NE77**	**45NE85**	—
1 in	8 in	**45NE78**	**45NE86**	—
1 ¼ in	8 in	**45NE79**	—	**45NE87**
1 ½ in	8 in	**45NE80**	**45NE88**	—
2 in	8 in	**45NE81**	**45NE89**	—
2 ½ in	9.6 in	**45NE82**	**45NE90**	—
3 in	9.6 in	**45NE83**	**45NE91**	—

1CVB2

1CVE6

35PP39

1CVF7

Rotary Unions, Cartridges, and Joint Elbows

Duff-Norton

Transfer steam and fluids to rotating drums or rolls to control surface temperatures. Unions and elbows also transfer air or hydraulic fluid to moving components, and add fluids to mixers while in motion. All models have NPT connection, except Rotary Union Cartridges.

9000 SERIES ROTARY UNIONS

- Max. speed: 700 rpm
- Max. pressure: 250 psi water; 150 psi steam (except 35PP27 to 35PP38 are 175 psi); 100 psi hot oil
- Max. temp.: 375°F water, steam, hot oil (except 35PP27 to 35PP38 are 378°F steam and 600°F hot oil)

Bellows-type seal resists hangup in contaminated media. Dual-flow joints accept NPT threaded stationary pipe.

5000 SERIES ROTARY UNIONS

- Max. speed: 1000 rpm NPT; 550 rpm air
- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Corrosion-resistant unions have 2 precision bearings with fluorocarbon O-rings. Dual flow unions require rotary joint elbow.

5000 SERIES ROTARY JOINT ELBOWS

- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; 35PP39 is also 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Convert Duff-Norton Rotary Unions from single to dual flow.

Size	Flow	Body Dia.	Left Hand Item No.	Right Hand Item No.
9000 Series Rotary Unions				
¼"	Single	1.75"	**35PP27**	**1CVB2**
⅜"	Single	1.75"	**35PP29**	**35PP28**
½"	Dual	2.375"	**35PP35**	**1CVC3**
	Single	2.375"	**35PP30**	**1CVB3**
¾"	Dual	2.5"	**35PP36**	**1CVC4**
	Single	2.5"	**1CVB4**	**1CVB5**
1"	Dual	3"	**1CVC5**	**1CVC6**
	Single	3"	**1CVB6**	**1CVB7**
1¼"	Dual	3.75"	—	**1CVC7**
	Single	3.75"	**35PP32**	**35PP31**
	Single or Dual	3.75"	**35PP37**	—
1½"	Dual	4.125"	**1CVC8**	**1CVC9**
	Single	4.125"	—	**1CVB8**
	Single or Dual	4.125"	**35PP33**	—
2"	Dual	5.875"	—	**1CVD1**
	Single	5.875"	**35PP34**	**1CVB9**
	Single or Dual	4.375"	—	**35PP25**
5000 Series Rotary Unions				
¼"	Single or Dual	1.5625"	**35PP22**	**35PP21**
⅜"	Single or Dual	1.5625"	**35PP23**	**1CVE6**
½"	Single or Dual	2.0625"	**35PP24**	**1CVE7**
¾"	Single or Dual	2.3125"	**1CVE8**	**1CVE9**
1"	Single or Dual	3.125"	**1CVF1**	**1CVF2**
1¼"	Single or Dual	3.5"	**1CVF3**	**1CVF4**
1½"	Single or Dual	4"	—	**1CVF6**
2"	Single or Dual	4.375"	**35PP26**	—
	Single or Dual	5.875"	**35PP38**	—

Size	Tube Outside Dia.	Item No.
5000 Series Rotary Joint Elbows		
⅛ in	⅛ in	**1CVH1**
⅜ in	¼ in	**1CVG8**
½ in	⅛ in	**1CVG9**
1 in	¼ in	**1CVH2**
1 ¼ in	½ in	**1CVH3**
1 ½ in/2 in	½ in	**1CVH4**
2 in	¾ in	**35PP39**

For Use With	Item No.
Rotary Union Cartridges	
For 9000 Series Rotary Unions	
1CVB2 Rotary Union	**1CVD3**
1CVB9, 1CVD1 Rotary Unions	**1CVE3**
1CVC7 Rotary Union	**1CVD9**
For 5000 Series Rotary Unions	
1CVE6 Rotary Union	**1CVF7**
1CVE7 Rotary Union	**1CVF8**
1CVE9 Rotary Union	**1CVG1**
1CVF2 Rotary Union	**1CVG3**

40F008

40E990

40E997

40E993

40E973

40E981

Rotary Unions/Swivels

MOSMATIC High Pressure Cleaning Technology

304 stainless steel construction for maintenance-free performance and longer life. Suitable for use in conveyor belt cleaning, pipe cleaning, spray parts washers, hose reels, tunnel wash systems, and high-pressure cleaning systems.

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
Manual Rotation					
DGE 90 Deg Medium Single Bearing System Swivel, O-Ring Seal					
Inlet ½ in NPTF - Outlet ½ in NPTF	250°F	4000 psi	30 rpm	1.65 in	**40F008**
Inlet ¾ in NPTF - Outlet ¾ in NPTM	250°F	4000 psi	30 rpm	1.97 in	**40F007**
DGE Inline Medium Single Bearing System Swivel, O-Ring Seal					
Inlet 1 ¼ in NPTF - Outlet 1 ¼ in NPTM	250°F	4000 psi	30 rpm	2.36 in	**40F006**
DGS Inline + 90° Dual Bearing System Swivel, O-Ring Seal					
Inlet ¼ in NPTF - Outlet ¼ in NPTF	250°F	4000 psi	30 rpm	0.86 in	**40E990**
Inlet ¼ in NPTF - Outlet ¼ in NPTM	250°F	4000 psi	30 rpm	0.86 in	**40E986**
Inlet ¼ in NPTF - Outlet ⅜ in NPTM	250°F	4000 psi	30 rpm	0.86 in	**40E987**
Inlet ⅜ in NPTF - Outlet ⅜ in NPTF	250°F	4000 psi	30 rpm	0.98 in	**40E989**
Inlet ⅜ in NPTF - Outlet ⅜ in NPTM	250°F	4000 psi	30 rpm	0.98 in	**40E988**
DGV Inline Single Bearing System, Live, Swivel, O-Ring Seal					
Inlet ½ in NPTM - Outlet ½ in NPTF	250°F	4000 psi	30 rpm	0.94 in	**40E997**
Inlet ¼ in NPTM - Outlet ¼ in NPTF	250°F	4000 psi	30 rpm	0.94 in	**40E994**
Inlet ¾ in JICM - Outlet ¾ in JICF	250°F	4000 psi	30 rpm	0.94 in	**40E999**
Inlet ⅜ in NPTF - Outlet ⅜ in NPTF	250°F	4000 psi	30 rpm	0.94 in	**40E998**
Inlet ⅜ in NPTM - Outlet ¼ in NPTF	250°F	4000 psi	30 rpm	0.94 in	**40E995**
Inlet ⅜ in NPTM - Outlet ⅜ in NPTF	250°F	4000 psi	30 rpm	0.94 in	**40E996**
DKS Swivel Coupling, Live					
Inlet M22 x 1.5-F - Outlet ¼ in NPTF	250°F	3600 psi	30 rpm	1.34 in	**40E991**
Inlet M22 x 1.5-F - Outlet ⅜ in NPTF	250°F	3600 psi	30 rpm	1.34 in	**40E992**
VER Fittings					
Inlet M22 x 1.5 M - Outlet ¼ in NPTM	—	7300 psi	—	—	**40E993**
WDBL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal					
Inlet ⅜ in NPTF - Outlet ⅜ in NPTM	250°F	4000 psi	200 rpm	1.26 in	**40E983**
WDC 90 Deg Dual Bearing System Swivel, O-Ring Seal					
Inlet ½ in NPTF - Outlet ½ in NPTF	250°F	4000 psi	30 rpm	1.77 in	**40F009**
WDCL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal					
Inlet ½ in NPTF - Outlet ½ in NPTF	250°F	4000 psi	200 rpm	1.77 in	**40E985**
Inlet ½ in NPTF - Outlet ½ in NPTM	250°F	4000 psi	200 rpm	1.77 in	**40E984**
WDG 90° Swivel, O-Ring Seal					
Inlet ¼ in NPTF - Outlet ⅜ in NPTM	200°F	2200 psi	30 rpm	1.77 in	**40F004**
Inlet ⅜ in NPTF - Outlet ½ in NPTF	200°F	2200 psi AT 200°F, 4000 psi AT 250°F	30 rpm	1.77 in	**40F003**
Inlet ⅜ in NPTF - Outlet ⅜ in NPTM	200°F	2200 psi	30 rpm	1.77 in	**40F002**
Inlet ⅜ in NPTF - Outlet ⅜ in NPTM	200°F	2200 psi	30 rpm	1.77 in	**40F005**
Inlet G1/4 in M - Outlet ⅜ in NPTF	250°F	4000*psi	30 rpm	1.26 in	**40F001** *

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
WDRS High Flow 90 deg Dual Bearing System Swivel, O-Ring Seal					
Inlet ¾ in NPTF - Outlet ¾ in NPTM	40°F To 180°F	150 - 3000 psi	130 rpm	1.97 in	**40F010**
Self Rotating					
DGG, High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal					
⅜ in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	1.1 in	**40E973**
DGG 90° High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal					
⅜ in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	0.98 in	**40E974**
DGL High RPM, Triple Bearing System Swivel, O-Ring Seal					
⅜ in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	1.1 in	**40E972**
DXF High RPM Triple Bearing System, W/Flange Swivel, Ceramic Seal					
⅜ in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	1.1 in	**40E977**
DXG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Ceramic Seal					
⅜ in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	2.36 in	**40E976**
DXL High RPM Triple Bearing System Swivel, Ceramic Seal					
⅜ in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	1.1 in	**40E975**
DYCI High RPM Triple Bearing System, Reinforced, Carbide Seal					
⅜ in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	**40E980**
DYF High RPM Triple Bearing System, W/Flange Swivel, Carbide Seal					
⅜ in F Inlet - Outlet G3/8 in Male	250°F	4000 psi	2,000 rpm	2.36 in	**40E979**
DYG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Carbide Seal					
⅜ in F Inlet - Outlet G3/8 in Male	250°F	4000 psi	2,000 rpm	2.36 in	**40E978**
DYT 90° High RPM Quadruple Bearing System Swivel, Carbide Seal					
¾ in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	**40E982**
DYT High RPM Quadruple Bearing System Swivel, Carbide Seal					
⅜ in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	**40E981**

** Without snap ring.*

Size	For Use With	Includes	Item No.
Carbide Seal Kit			
¼ in	¼ in NW Mosmatic DY Series Rotary Unions/Swivels	1 - 0.5ml Thread Adhesive, 2 - Carbide Seals, 2 - O-Rings, 2 - Spring Washers, And 1 - Seal Tool	**40E971**

MUELLER STREAMLINE

Air Conditioning and Refrigeration Copper Coils and Straight Lengths

- Temp. range: 32° to 400°F

Copper refrigeration tubing easily connects air conditioning and refrigeration equipment, using sweating or flare fittings. Coils are nitrogen purged to reduce contaminants. Meets ASTM B280.

2LKJ2

3P669

Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	10 ft Item No.
Straight				
⅜ in	0.25 in	0.03 in	984 psi	**2LKJ2**
½ in	0.375 in	0.035 in	727 psi	**2LKJ3**
⅝ in	0.5 in	0.04 in	618 psi	**2LKJ4**
¾ in	0.625 in	0.042 in	511 psi	**2LKJ5**
⅞ in	0.75 in	0.045 in	582 psi	**2LKJ6**
1 ⅛ in	1 in	0.05 in	494 psi	**2LKJ7**
1 ⅜ in	1.25 in	0.055 in	439 psi	**2LKJ8**
1 ⅝ in	1.5 in	0.06 in	408 psi	**5WME0**

** Rated internal working pressure up to 100°F.*

Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	20 ft Item No.	50 ft Item No.	100 ft Item No.
Coil						
⅛ in	0.065 in	0.03 in	3074 psi	—	**2LKJ9**	**5WME1**
3/16 in	0.127 in	0.03 in	1935 psi	—	**2LKK1**	**5WME2**
¼ in	—	0.03 in	1406 psi	—	**3P669**	—
¼ in	0.19 in	0.03 in	1406 psi	**2LKK2**	—	—
¼ in	0.125 in	0.03 in	1406 psi	—	—	**4WTA8**
5/16 in	0.249 in	0.032 in	1197 psi	—	**3P670**	**4WTA9**
⅜ in	0.25 in	0.032 in	700 psi	—	**3P671**	—
⅜ in	0.311 in	0.032 in	984 psi	**2LKK3**	—	—
⅜ in	0.25 in	0.032 in	984 psi	—	—	**4WTC1**
½ in	0.375 in	0.032 in	727 psi	—	**3P672**	**4WTC2**
⅝ in	0.5 in	0.035 in	618 psi	—	**3P673**	—
⅝ in	0.5 in	0.2925 in	618 psi	—	—	**4WTC3**
¾ in	0.625 in	0.035 in	511 psi	—	**3P674**	**4WTC4**
⅞ in	0.75 in	0.045 in	582 psi	—	**4P866**	**4WTC5**
1 ⅛ in	1.025 in	0.05 in	494 psi	—	**4WTC6**	**5WME3**
1 ⅜ in	1.265 in	0.055 in	439 psi	—	**4WTC7**	—

Type K and Type L Copper Water Tubing, Coils

- Temp. range: 32° to 400°F

Use Type K tubing to connect water mains and meters and to form heavy-duty underground vacuum pump lines. A high melting point helps maintain pressure when subjected to flames; ideal for fire sprinkler systems. Thick-walled, Type L tubing is designed for above- or below-ground water service and hydronic heater applications. All tubing meets ASTM B88 and building codes in all 50 states.

MUELLER STREAMLINE

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	40 ft Item No.	60 ft Item No.	100 ft Item No.
Type K							
¼"	⅜"	0.25"	0.035"	1074 psi	—	—	**4WTC9**
¼"	⅜"	0.305"	0.035"	1074 psi	—	**2LKK9**	—
⅜"	½"	0.375"	0.049"	1130 psi	—	—	**4WTD1**
⅜"	½"	0.402"	0.049"	1130 psi	—	**2LKL1**	—
½"	⅝"	0.5"	0.049"	891 psi	—	—	**4WTD2**
½"	⅝"	0.527"	0.049"	891 psi	—	**2LKL2**	—
⅝"	¾"	0.625"	0.049"	736 psi	—	**4WTD3**	**4WTD4**
¾"	⅞"	0.745"	0.065"	852 psi	—	**4LW30**	—
¾"	⅞"	0.75"	0.065"	852 psi	—	—	**4WTD5**
1"	1⅛"	0.995"	0.065"	655 psi	—	**4LW31**	—
1"	1⅛"	1"	0.065"	655 psi	—	—	**4WTD6**
1¼"	1⅜"	1.25"	0.065"	532 psi	—	**4WTD7**	—
1½"	1⅝"	1.5"	0.072"	494 psi	—	**4WTD9**	—
2"	2⅛"	2"	0.083"	435 psi	**4WTE3**	—	—

** Rated internal working pressure up to 100°F.*

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure*	20 ft Item No.	60 ft Item No.	100 ft Item No.
Type L							
¼"	⅜"	0.25 in	0.03"	912 psi	**4WTE4**	—	**4WTE5**
¼"	⅜"	0.315 in	0.03"	912 psi	—	**3P665**	—
⅜"	½"	0.375 in	0.035"	779 psi	**2LKL9**	—	**4WTE6**
⅜"	½"	0.43 in	0.035"	779 psi	—	**3P666**	—
½"	⅝"	0.5 in	0.04"	722 psi	—	—	**4WTE7**
½"	⅝"	0.545 in	0.04"	722 psi	**2LKN1**	**3P667**	—
⅝"	¾"	0.625 in	0.042"	631 psi	—	**4WTE8**	**4WTE9**
¾"	⅞"	0.75 in	0.045"	582 psi	—	—	**4WTG1**
¾"	⅞"	0.785 in	0.045"	582 psi	—	**3P668**	—
1"	1⅛"	1 in	0.05"	494 psi	—	**4WTG2**	**4WTG3**
1¼"	1⅜"	1.25 in	0.055"	439 psi	—	—	**4WTG5**

4LW30

Type K, L, and M Copper Water Tubing, Straight Lengths

MUELLER STREAMLINE

- Rated internal working pressure up to 100°F
- Temp. range: 32° to 400°F

Type K tubing is used to connect water main and meters, and to form heavy-duty underground vacuum pump lines. Thick-walled Type L tubing can be used for both inside and outside applications. Thin-walled Type M is commonly used in homes, behind walls. Tubing meets ASTM B88 and meets or exceeds building codes in all 50 states.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	2 ft Item No.	5 ft Item No.	10 ft Item No.
Type K							
¼"	⅜"	0.25 in	0.035"	1074 psi	—	**4WTN4**	**4WTN5**
⅜"	½"	0.375 in	0.049"	1130 psi	**4WTN6**	**4WTN7**	**4WTN8**
½"	⅝"	0.5 in	0.049"	891 psi	**4WTN9**	**4WTP1**	**4WTP2**
⅝"	¾"	0.625 in	0.049"	736 psi	**4WTP3**	**4WTP4**	—
⅝"	¾"	0.652 in	0.049"	736 psi	—	—	**4WTP5**
¾"	⅞"	0.75 in	0.065"	852 psi	**4WTP6**	**4WTP7**	**4WTP8**
1"	1⅛"	1 in	0.065"	655 psi	**4WTP9**	**4WTR1**	**4WTR2**
1¼"	1⅜"	1.25 in	0.065"	532 psi	—	—	**4WTR5**
1½"	1⅝"	1.5 in	0.072"	494 psi	—	—	**4WTR8**
2"	2⅛"	2 in	0.083"	435 psi	—	—	**4WTT2**
2½"	2⅝"	2.5 in	0.095"	338 psi	—	—	**4WTT5**
3"	3⅛"	3 in	0.109"	270 psi	—	—	**4WTT8**
4"	4⅛"	4 in	0.134"	360 psi	—	—	**22FC82**

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	2 ft Item No.	5 ft Item No.	10 ft Item No.
Type L							
¼"	⅜"	0.25 in	0.03"	912 psi	**4WTG9**	**4WTH1**	**4WTH2**
⅜"	½"	0.375 in	0.035"	779 psi	**4WTH3**	—	**4WTH5**
⅜"	½"	0.43 in	0.035"	779 psi	—	**4WTH4**	—
½"	⅝"	0.5 in	0.04"	722 psi	**4WTH6**	**2LKL5**	**6KZ19**
⅝"	¾"	0.625 in	0.042"	631 psi	**4WTH7**	**4WTH8**	**4WTH9**
¾"	⅞"	0.75 in	0.045"	582 psi	**4WTJ1**	**2LKL6**	**6KZ21**
1"	1⅛"	1 in	0.05"	494 psi	**4WTJ2**	**4WTJ3**	—
1"	1⅛"	1.025 in	0.05"	494 psi	—	—	**6KZ22**
1¼"	1⅜"	1.265 in	0.055"	439 psi	—	—	**3ZA94**
1½"	1⅝"	1.505 in	0.06"	347 psi	—	—	**3ZA95**
2"	2⅛"	1.985 in	0.07"	309 psi	—	—	**3ZA96**
2½"	2⅝"	2.5 in	0.08"	336 psi	—	—	**22FC83**
3"	3⅛"	3 in	0.09"	270 psi	—	—	**4WTK3**
Type M							
⅜"	½"	0.375 in	0.025"	570 psi	—	—	**22FC79**
½"	⅝"	0.5 in	0.028"	850 psi	**4WTK4**	**4WTK5**	—
½"	⅝"	0.569 in	0.028"	850 psi	—	—	**6KZ24**
⅝"	¾"	0.625 in	0.03"	494 psi	—	—	**22FC80**
¾"	⅞"	0.75 in	0.032"	701 psi	**4WTK6**	**4WTK7**	—
¾"	⅞"	0.811 in	0.032"	701 psi	—	—	**6KZ26**
1"	1⅛"	1 in	0.035"	580 psi	**4WTK8**	**4WTK9**	—
1"	1⅛"	1.055 in	0.035"	580 psi	—	—	**6KZ27**
1¼"	1⅜"	1.291 in	0.042"	582 psi	—	—	**3ZA97**
1½"	1⅝"	1.527 in	0.049"	569 psi	—	—	**3ZA98**
2"	2⅛"	2.009 in	0.058"	514 psi	—	—	**3ZA99**
2½"	2⅝"	2.5 in	0.065"	471 psi	—	—	**4WTL9**
3"	3⅛"	3 in	0.072"	435 psi	—	—	**4WTN3**
4"	4⅛"	4 in	0.095"	251 psi	—	—	**22FC81**

Type L
2LKL5

MUELLER STREAMLINE

DWV Copper Tubing, Straight Lengths

- Temp. range: 32° to 100°F
- Tube length: 10 ft.

For use in drain, waste and vent systems. Meets ASTM B306.

Tube Size	Outside Dia.	Inside Dia.	Wall Thickness	Max. Pressure	Item No.
1 ¼ in	1 ⅜ in	1.25 in	0.04 in	330 psi	**22FC88**
1 ½ in	1 ⅝ in	1.5 in	0.042 in	293 psi	**22FC89**
2 in	2 ⅛ in	2 in	0.042 in	217 psi	**22FC90**
3 in	3 ⅛ in	3 in	0.045 in	159 psi	**22FC91**
4 in	4 ⅛ in	4 in	0.058 in	150 psi	**22FC92**

Rapid Pipe Repair Clamps

ROTHENBERGER pipetool technologies at work

Compact repair clamps are simple to use and can easily repair a burst or leaking pipe. Once installed, they allow the pipe to function under normal temperatures and pressures until you can complete a permanent repair. Non-toxic construction, reusable, and suitable for use with metal, multilayer, or plastic pipe.

Pipe Size	Fits Outside Dia.	Max. Pressure (psi)	Temp. Range	Item No.
½ in	0.84 in	87	32° to 185°F	**53RF29**
¾ in	0.84 in	87	32° to 185°F	**53RF30**

50-ft. Length
3ADC6

6-ft. Length
3CAE1

304 and 316 Stainless Steel Tubing and Coils—Welded and Seamless

Meets ASTM 269.

304 STAINLESS STEEL

- Temp. range: -423° to 1500°F

The most versatile and widely used of stainless steel grades, due to its combination of corrosion resistance, formability, and ductility.

Welded

Less costly than seamless or welded-and-drawn tubing and requires less stock removal in machining applications. Can also be produced with extremely thin walls.

Seamless

Features heavier wall thicknesses for mechanical applications. Ideal for food and beverage, pharmaceutical, and chemical and petrochemical processing applications.

316 STAINLESS STEEL

- Temp. range: -325° to 1500°F

Provides the best resistance to pitting and corrosion of any of the austenitic (300 series) stainless steels. Extremely ductile, with excellent strength at elevated temperatures.

Welded

Weld bead remains on the inside diameter. Less expensive than seamless or welded-and-drawn tubing.

Seamless

Seamless tubing can be produced with heavier wall thicknesses for mechanical applications. Ideal for hydraulic and instrumentation tubing in chemical, textile, and pulp and paper industries, and in marine environments.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Welded Tubing - 6 ft Lengths					
0.027 in	⅛ in	0.049 in	12014 psi @ 72°F	—	3ADK8
0.055 in	⅛ in	0.035 in	8582 psi @ 72°F	3ADD6	3ADK7
0.069 in	⅛ in	0.028 in	7140 psi @ 72°F	3ADD5	3ADK6
0.085 in	⅛ in	0.02 in	4904 psi @ 72°F	3ADD4	3ADK5
0.09 in	3⁄16 in	0.049 in	8093 psi @ 72°F	3ADU6	—
0.093 in	⅛ in	0.016 in	3923 psi @ 72°F	3ADD3	3ADK4
0.118 in	3⁄16 in	0.035 in	5780 psi @ 72°F	3ADU5	3CAD2
0.12 in	¼ in	0.065 in	8125 psi @ 72°F	3ADE2	3CAD9
0.132 in	3⁄16 in	0.028 in	4747 psi @ 72°F	3ADU4	3CAD1
0.148 in	3⁄16 in	0.02 in	3303 psi @ 72°F	3ADD7	—
0.152 in	¼ in	0.049 in	6125 psi @ 72°F	3ADE1	3CAD8
0.18 in	¼ in	0.035 in	4375 psi @ 72°F	3ADD9	3CAD7
0.183 in	5⁄16 in	0.065 in	6515 psi @ 72°F	3ADE7	3AFD5
0.194 in	¼ in	0.028 in	3570 psi @ 72°F	3ADD8	3CAD6
0.21 in	¼ in	0.02 in	2500 psi @ 72°F	3ADU9	3CAD5
0.215 in	5⁄16 in	0.049 in	4912 psi @ 72°F	3ADE6	3AFD4
0.218 in	¼ in	0.016 in	2000 psi @ 72°F	3ADU8	—
0.23 in	¼ in	0.01 in	1250 psi @ 72°F	3ADU7	5LVP3
0.243 in	5⁄16 in	0.035 in	3508 psi @ 72°F	3ADE5	3AFD3
0.245 in	⅜ in	0.065 in	5452 psi @ 72°F	3ADF3	3ADN1
0.257 in	5⁄16 in	0.028 in	2851 psi @ 72°F	3ADE4	3AFD2
0.273 in	5⁄16 in	0.02 in	2005 psi @ 72°F	3ADE3	3AFD1
0.277 in	⅜ in	0.049 in	4110 psi @ 72°F	3ADF2	3AFD9
0.305 in	⅜ in	0.035 in	2936 psi @ 72°F	3ADF1	3AFD8
0.319 in	⅜ in	0.028 in	2380 psi @ 72°F	3ADE9	3AFD7
0.335 in	⅜ in	0.02 in	1678 psi @ 72°F	3ADE8	3AFD6
0.37 in	½ in	0.065 in	4344 psi @ 72°F	3ADF8	3ADN6
0.402 in	½ in	0.049 in	3275 psi @ 72°F	3ADF7	3ADN5
0.43 in	½ in	0.035 in	2339 psi @ 72°F	3ADF6	3ADN4
0.444 in	½ in	0.028 in	1785 psi @ 72°F	3ADF5	3ADN3
0.46 in	½ in	0.02 in	1337 psi @ 72°F	3ADF4	3ADN2
0.495 in	⅝ in	0.065 in	3482 psi @ 72°F	3ADG4	3ADP2
0.51 in	¾ in	0.12 in	5364 psi @ 72°F	5LVL6	—
0.527 in	⅝ in	0.049 in	2625 psi @ 72°F	3ADG3	3ADP1
0.555 in	⅝ in	0.035 in	1875 psi @ 72°F	3ADG2	3ADN9
0.569 in	⅝ in	0.028 in	1428 psi @ 72°F	3ADG1	—
0.584 in	¾ in	0.083 in	3710 psi @ 72°F	5LVL7	—
0.585 in	⅝ in	0.02 in	1071 psi @ 72°F	3ADF9	3ADN7
0.62 in	¾ in	0.065 in	2906 psi @ 72°F	3ADG7	3ADP5
0.635 in	⅞ in	0.12 in	4602 psi @ 72°F	5LVL8	—
0.652 in	¾ in	0.049 in	2190 psi @ 72°F	3ADG6	3ADP4
0.68 in	¾ in	0.035 in	1565 psi @ 72°F	3ADG5	3ADP3
0.745 in	⅞ in	0.065 in	2493 psi @ 72°F	5LVL9	5LVP4
0.777 in	⅞ in	0.049 in	1879 psi @ 72°F	3ADG9	—
0.805 in	⅞ in	0.035 in	1342 psi @ 72°F	3ADG8	3ADP6
0.834 in	1 in	0.083 in	2787 psi @ 72°F	5LVN0	5LVP5
0.87 in	1 in	0.065 in	2183 psi @ 72°F	3ADH3	3ADR1
0.902 in	1 in	0.049 in	1646 psi @ 72°F	3ADH2	—
0.93 in	1 in	0.035 in	1175 psi @ 72°F	3ADH1	3ADP8
1.01 in	1 ¼ in	0.12 in	3227 psi @ 72°F	5LVN1	5LVP6
1.084 in	1 ¼ in	0.083 in	2232 psi @ 72°F	5LVN2	—
1.12 in	1 ¼ in	0.065 in	1748 psi @ 72°F	3ADH6	3ADR4
1.152 in	1 ¼ in	0.049 in	1318 psi @ 72°F	3ADH5	—
1.18 in	1 ¼ in	0.035 in	941 psi @ 72°F	3ADH4	3ADR2
1.245 in	1 ⅜ in	0.065 in	1591 psi @ 72°F	5LVN3	—
1.26 in	1 ½ in	0.12 in	2682 psi @ 72°F	—	5LVP7
1.277 in	1 ⅜ in	0.049 in	1199 psi @ 72°F	5LVN4	—
1.305 in	1 ⅜ in	0.035 in	857 psi @ 72°F	5LVN5	—
1.37 in	1 ½ in	0.065 in	1453 psi @ 72°F	3ADH9	3ADR7
1.402 in	1 ½ in	0.049 in	1095 psi @ 72°F	3ADH8	—
1.43 in	1 ½ in	0.035 in	782 psi @ 72°F	3ADH7	3ADR5
1.62 in	1 ¾ in	0.065 in	1246 psi @ 72°F	3ADJ3	3CAE1
1.652 in	1 ¾ in	0.049 in	940 psi @ 72°F	3ADJ2	3ADR9
1.68 in	1 ¾ in	0.035 in	671 psi @ 72°F	3ADJ1	—
1.76 in	2 in	0.12 in	2015 psi @ 72°F	5LVN7	—
1.87 in	2 in	0.065 in	1091 psi @ 72°F	3ADJ6	3CAE4
1.902 in	2 in	0.049 in	823 psi @ 72°F	3ADJ5	3CAE3
1.93 in	2 in	0.035 in	588 psi @ 72°F	3ADJ4	—
Welded Coil Tubing - 50 ft Lengths					
0.085 in	⅛ in	0.02 in	3923 psi @ 72°F	3ADC6	3ADJ7
0.194 in	¼ in	0.028 in	3570 psi @ 72°F	3ADC8	3ADJ9
0.21 in	¼ in	0.02 in	2500 psi @ 72°F	3ADC7	3ADJ8
0.319 in	⅜ in	0.028 in	2380 psi @ 72°F	3ADD1	3ADK2
0.335 in	⅜ in	0.02 in	1678 psi @ 72°F	3ADC9	3ADK1
0.46 in	½ in	0.02 in	1337 psi @ 72°F	3ADD2	3ADK3

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Seamless Tubing - 6 ft Lengths					
0.027 in	⅛ in	0.049 in	12014 psi @ 72°F	3ACR9	—
0.055 in	⅛ in	0.035 in	8582 psi @ 72°F	3ACR8	—
0.069 in	⅛ in	0.028 in	7140 psi @ 72°F	3ACR7	—
0.069 in	⅛ in	0.035 in	8582 psi @ 72°F	—	4NTK8
0.084 in	¼ in	0.083 in	10375 psi @ 72°F	3ACU1	5LVR0
0.085 in	⅛ in	0.02 in	4904 psi @ 72°F	3ACR6	—
0.09 in	3⁄16 in	0.049 in	8093 psi @ 72°F	3ACT4	—
0.093 in	⅛ in	0.016 in	3923 psi @ 72°F	—	5LVP9
0.118 in	3⁄16 in	0.035 in	5780 psi @ 72°F	3ACT3	—
0.118 in	¼ in	0.02 in	2500 psi @ 72°F	—	4NTL2
0.12 in	¼ in	0.065 in	8125 psi @ 72°F	3ACT9	5LVR1
0.125 in	⅛ in	0.02 in	4904 psi @ 72°F	—	4NTK7
0.132 in	3⁄16 in	0.028 in	4747 psi @ 72°F	3ACT2	—
0.132 in	3⁄16 in	0.035 in	5780 psi @ 72°F	—	4NTL1
0.147 in	5⁄16 in	0.083 in	8320 psi @ 72°F	3ACU6	—
0.148 in	3⁄16 in	0.02 in	3303 psi @ 72°F	—	3ACH3
0.148 in	3⁄16 in	0.02 in	3393 psi @ 72°F	3ACT1	—
0.152 in	¼ in	0.049 in	6125 psi @ 72°F	3ACT8	5LVR2
0.152 in	5⁄16 in	0.035 in	3508 psi @ 72°F	—	4NTL5
0.18 in	¼ in	0.035 in	4375 psi @ 72°F	3ACT7	3ACH4
0.183 in	5⁄16 in	0.065 in	6515 psi @ 72°F	3ACU5	5LVR4
0.194 in	¼ in	0.028 in	3750 psi @ 72°F	3ACT6	—
0.209 in	⅜ in	0.083 in	6962 psi @ 72°F	3ACV4	5LVR6
0.21 in	¼ in	0.02 in	2500 psi @ 72°F	3ACT5	—
0.21 in	¼ in	0.028 in	3750 psi @ 72°F	—	4NTL3
0.215 in	5⁄16 in	0.049 in	4912 psi @ 72°F	3ACU4	—
0.218 in	¼ in	0.016 in	2000 psi @ 72°F	—	5LVR3
0.23 in	¼ in	0.01 in	1250 psi @ 72°F	5LVN8	—
0.243 in	5⁄16 in	0.035 in	3508 psi @ 72°F	3ACU3	—
0.243 in	⅜ in	0.028 in	2380 psi @ 72°F	—	4NTL6
0.245 in	⅜ in	0.065 in	5452 psi @ 72°F	3ACV3	3ACH6
0.257 in	5⁄16 in	0.028 in	2851 psi @ 72°F	3ACU2	5LVR5
0.26 in	½ in	0.12 in	8020 psi @ 72°F	3ACW2	5LVT0
0.272 in	5⁄16 in	0.02 in	2005 psi @ 72°F	5LVN9	—
0.273 in	5⁄16 in	0.02 in	2005 psi @ 72°F	—	3ACH5
0.277 in	⅜ in	0.048 in	4110 psi @ 72°F	3ACV2	—
0.277 in	⅜ in	0.049 in	4110 psi @ 72°F	—	5LVR7
0.305 in	⅜ in	0.035 in	2936 psi @ 72°F	3ACV1	5LVR8
0.31 in	½ in	0.095 in	6349 psi @ 72°F	5LVP0	3ACH9
0.319 in	⅜ in	0.028 in	2380 psi @ 72°F	3ACU9	—
0.334 in	½ in	0.083 in	5547 psi @ 72°F	3ACW1	3ACH8
0.335 in	⅜ in	0.02 in	1678 psi @ 72°F	3ACU8	5LVR9
0.355 in	⅜ in	0.01 in	839 psi @ 72°F	3ACU7	—
0.37 in	½ in	0.065 in	4344 psi @ 72°F	3ACV9	5LVT1
0.385 in	⅝ in	0.12 in	6429 psi @ 72°F	3ACW9	5LVT4
0.402 in	½ in	0.049 in	3275 psi @ 72°F	3ACV8	5LVT2
0.43 in	½ in	0.035 in	2339 psi @ 72°F	3ACV7	3ACH7
0.444 in	½ in	0.028 in	1785 psi @ 72°F	3ACV6	5LVT3
0.459 in	⅝ in	0.083 in	4446 psi @ 72°F	3ACW8	5LVT5
0.46 in	½ in	0.02 in	1337 psi @ 72°F	3ACV5	—
0.495 in	⅝ in	0.065 in	3482 psi @ 72°F	3ACW7	—
0.51 in	¾ in	0.12 in	5364 psi @ 72°F	3ACX5	3ACJ1
0.527 in	⅝ in	0.049 in	2625 psi @ 72°F	3ACW6	—
0.527 in	⅝ in	0.065 in	3482 psi @ 72°F	—	4NTN4
0.555 in	⅝ in	0.035 in	1875 psi @ 72°F	3ACW5	—
0.569 in	⅝ in	0.028 in	1428 psi @ 72°F	3ACW4	—
0.584 in	¾ in	0.083 in	3710 psi @ 72°F	3ACX4	—
0.585 in	⅝ in	0.02 in	1071 psi @ 72°F	3ACW3	—
0.62 in	¾ in	0.065 in	2906 psi @ 72°F	3ACX3	4NTN6
0.635 in	⅞ in	0.12 in	4602 psi @ 72°F	3ACX9	3ACJ5
0.652 in	¾ in	0.049 in	2190 psi @ 72°F	3ACX2	—
0.667 in	¾ in	0.083 in	3710 psi @ 72°F	—	4NTN7
0.68 in	¾ in	0.035 in	1565 psi @ 72°F	3ACX1	5LVT6
0.745 in	⅞ in	0.065 in	2493 psi @ 72°F	3ACX8	3ACJ4
0.76 in	1 in	0.12 in	4030 psi @ 72°F	3ACY5	3ACK1
0.777 in	⅞ in	0.049 in	1879 psi @ 72°F	3ACX7	3ACJ3
0.805 in	⅞ in	0.035 in	1342 psi @ 72°F	3ACX6	3ACJ2
0.834 in	1 in	0.083 in	2787 psi @ 72°F	3ACY4	3ACJ9
0.87 in	1 in	0.065 in	2183 psi @ 72°F	3ACY3	3ACJ8
0.902 in	1 in	0.049 in	1646 psi @ 72°F	3ACY2	—
0.93 in	1 in	0.035 in	1175 psi @ 72°F	3ACY1	3ACJ6
1.01 in	1 ¼ in	0.12 in	3227 psi @ 72°F	3ACZ1	3ACK7
1.084 in	1 ¼ in	0.083 in	2232 psi @ 72°F	3ACY9	3ACK6
1.12 in	1 ¼ in	0.065 in	1748 psi @ 72°F	3ACY8	3ACK5
1.152 in	1 ¼ in	0.049 in	1318 psi @ 72°F	—	3ACK4
1.18 in	1 ¼ in	0.035 in	941 psi @ 72°F	—	3ACK3
1.194 in	1 ¼ in	0.028 in	714 psi @ 72°F	5LVP1	—
1.26 in	1 ½ in	0.12 in	2682 psi @ 72°F	3ACZ8	3ACL4
1.277 in	1 ⅜ in	0.049 in	1199 psi @ 72°F	—	5LVT7
1.31 in	1 ½ in	0.095 in	2123 psi @ 72°F	—	3ACL3
1.37 in	1 ½ in	0.065 in	1453 psi @ 72°F	3ACZ6	3ACL2
1.402 in	1 ½ in	0.049 in	1095 psi @ 72°F	3ACZ5	—
1.43 in	1 ½ in	0.035 in	782 psi @ 72°F	5LVP2	—
1.62 in	1 ¾ in	0.065 in	1246 psi @ 72°F	3CAC1	3ACL6
1.652 in	1 ¾ in	0.049 in	940 psi @ 72°F	—	3ACL5
1.68 in	1 ¾ in	0.035 in	671 psi @ 72°F	3ACZ9	—
1.76 in	2 in	0.12 in	2015 psi @ 72°F	3CAC5	3ACL9
1.87 in	2 in	0.065 in	1091 psi @ 72°F	3CAC4	3ACL8
1.902 in	2 in	0.049 in	823 psi @ 72°F	3CAC3	—
1.93 in	2 in	0.035 in	588 psi @ 72°F	3CAC2	—

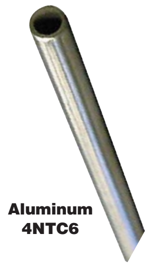
Aluminum and 316 Stainless Steel Instrumentation Tubing

- Seamless construction

Aluminum—Features very good corrosion resistance and finishability, as well as excellent weldability. Strength approximates that of mild steel. Can be fabricated by most common techniques. Meets ASTM B210 and WW-T-700/6.
- Temp. range: -452° to 400°F
- Length: 6 ft.

316 Stainless Steel—Can be used with Hamlet, Swagelok, and Parker A-Lok metric fittings, with water, air, natural gas, oil, and hydraulic fluid. Sterilize with steam. Use with metric instrumentation fittings, sold on page 2858. Meets ASTM A269, except 4NTK1 to 4NTK6 meet DIN EN10216-5.
- Temp. range: -325° to 1500°F
- Length: 2m

Aluminum				316 Stainless Steel			
Outside Dia.	Wall Thickness	Max. Pressure	Item No.	Outside Dia.	Wall Thickness	Max. Pressure	Item No.
3⁄16"	0.049 in	4774 psi	**4NTC6**	6 mm	1 mm	4713 psi	**4NTK1**
¼"	0.035 in	580 psi	**4NRZ9**	6 mm	1 mm	5100 psi	**4NTJ6**
⅜"	0.049 in	2431 psi	**4NTD5**	8 mm	1 mm	3545 psi	**4NTK2**
½"	0.065 in	2428 psi	**4NTD9**	8 mm	1.5 mm	5800 psi	**4NTJ7**
⅝"	0.065 in	440 psi	**4NRY9**	10 mm	1.5 mm	4621 psi	**4NTK3**
¾"	0.049 in	1222 psi	**4NTE4**	10 mm	2 mm	6300 psi	**4NTJ8**
⅞"	0.049 in	1049 psi	**4NTE8**	12 mm	2 mm	5200 psi	**4NTJ9**
1"	0.125 in	2344 psi	**4NTF4**	12 mm	2 mm	5415 psi	**4NTK4**
1¼"	0.065 in	975 psi	**4NTF7**	16 mm	2 mm	4065 psi	**4NTK5**
1½"	0.035 in	438 psi	**4NTF8**	20 mm	2 mm	3258 psi	**4NTK6**



Aluminum 4NTC6

Dubl-Barb® Brass Barbed Fittings

Parker

- Max. working pressure: 150 psi (5/32" to 3/8"); 100 psi (1/2")
- Temp. range: -65° to 90°F (5/32" to 3/8"); -65° to 75°F (1/2")

Compact, 1-pc. push-on barbed fittings don't require any type of clamp. Use to quickly connect polyethylene tubing for use in environmental pneumatic controls and other low-pressure applications with water and air.

Tube Size	90° Elbow Item No.	Union Item No.	Union Tee* Item No.	Bulkhead Union Item No.	Bulkhead Union, Compress-Align Item No.	Union, Compress-Align Item No.	Tee* Item No.	Adapter Tee Item No.	Solder Connector Item No.	Plug Item No.
Barbed Fittings										
5⁄32 in	2GUG8	2GUG5	2GUF4	—	—	—	—	—	—	—
¼ in	2GUG6	2GUF1	2GUF2	2GUJ6	2GUJ9	2GUJ8	2GUL2	2GUE9	2GUL6	2GUE5
⅜ in	2GUG9	2GUH2	—	2GUJ7	2GUK1	—	—	—	—	2GUE7
⅜ in x ⅜ in	—	—	2GUF6	—	—	—	—	—	—	—
½ in	2GUH1	2GUH4	2GUG1	—	—	—	—	—	—	2GUE8

Tube Outside Dia.	Pipe Size - Pipe Fitting	90° Female Elbow Item No.	90° Male Elbow Item No.	Female Branch Tee* Item No.	Female Connector Item No.	Male Branch Tee* Item No.	Male Connector Item No.	Male Run Tee* Item No.
Barbed Fittings								
⅛ in	—	—	—	—	—	—	2GUP2 †	—
5⁄32 in	⅛ in	—	2GUJ1	2GUL5	2GUL8	—	2GUP9	—
¼ in	—	—	—	—	—	—	2GUP3 †	—
¼ in	—	—	—	—	—	—	2GUP5 †	—
¼ in	1⁄16 in	—	2GUH6	—	—	2GUK7	2GUP4	—
¼ in	⅛ in	2GUK2	2GUH7	2GUL4	2GUL7	2GUK8	2GUP6	2GUK4
¼ in	¼ in	—	2GUH8	—	—	—	2GUP7	—
⅜ in	⅛ in	—	2GUJ2	—	2GUL9	2GUK9	2GUR1	2GUK5
⅜ in	¼ in	2GUK3	2GUJ3	—	2GUP1	2GUL1	2GUR2	2GUK6
½ in	¼ in	—	2GUJ4	—	—	—	2GUR3	—
½ in	⅜ in	—	2GUJ5	—	—	—	2GUR4	—
½ in	½ in	—	—	—	—	—	2GUR5	—

Tube Outside Dia.	Reducing Plug Adapter Item No.	Union Reducer Item No.
Reducing Barbed Fittings		
¼ in and 5⁄32 in	2GUE6	—
¼ in x 5⁄32 in	—	2GUF5
¼ in x ⅜ in	—	2GUF7
¼ in x ½ in	—	2GUG2
⅜ in x ½ in	—	2GUH3

** Tees read run x run x outlet. † For vinyl tubing only.*

White Acetal Push-Button Tube Couplings

CPC A DOVER COMPANY

- Max. pressure: 120 psi
- Temp. range: -40° to 180°F

Chemical-resistant fittings let you connect and disconnect by hand. Couplers have built-in shutoff valves. Use for engine system, biohazard detection, printing and ink, and cleanroom/sterilization, as well as in food/beverage and chemical applications. Meet USDA, NSF, and RoHS compliant.

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Inline Couplers					
Straight-Through Straight Coupler					
	Barbed	⅛ in	⅛ in	PMC	**2YDG9**
		3⁄16 in	3⁄16 in	PMC	**2YDH1**
		¼ in	¼ in	PLC	**2YCZ9**
		¼ in	¼ in	PMC	**2YDH2**
		⅜ in	⅜ in	PLC	**2YDA2**
	MNPT	¼ in	—	PLC	**2YCZ1**
		¼ in	—	PMC	**2YDG1**
		⅜ in	—	PLC	**2YCZ2**
	Tube	¼ in	11⁄64 in	PMC	**2YDG3**
		⅜ in	¼ in	PLC	**2YCZ5**
Shut-Off Straight Coupler					
	Barbed	⅛ in	⅛ in	PMC12	**2YDL1**
		3⁄16 in	3⁄16 in	PMC12	**2YDL2**
		¼ in	¼ in	PLC	**2YDD9**
		¼ in	¼ in	PMC12	**2YDL3**
		5⁄16 in	5⁄16 in	PLC	**2YDE1**
		⅜ in	⅜ in	PLC	**2YDE2**
	MNPT	⅛ in	—	PMC12	**2YDK1**
		¼ in	—	PLC	**2YDC9**
		¼ in	—	PMC12	**2YDK2**
		⅜ in	—	PLC	**2YDD1**

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Inline Inserts					
Straight-Through Inline Insert					
	Barbed	⅛ in	⅛ in	PMC	**2YDH7**
		¼ in	¼ in	PLC	**2YDA6**
		¼ in	¼ in	PMC	**2YDH9**
		⅜ in	⅜ in	PLC	**2YDA8**
	MNPT	⅛ in	—	PMC	**2YDJ3**
		¼ in	—	PLC	**2YDC2**
		¼ in	—	PMC	**2YDJ4**
		⅜ in	—	PLC	**2YDC3**
Shut-Off Inline Insert					
	Barbed	⅛ in	⅛ in	PMC12	**2YDL8**
		3⁄16 in	3⁄16 in	PMC12	**2YDL9**
		¼ in	¼ in	PLC	**2YDE6**
		¼ in	¼ in	PMC12	**2YDN1**
		5⁄16 in	5⁄16 in	PLC	**2YDE7**
		⅜ in	⅜ in	PLC	**2YDE8**
	MNPT	⅛ in	—	PMC12	**2YDN4**
		¼ in	—	PLC	**2YDF2**
		¼ in	—	PMC12	**2YDN5**
		⅜ in	—	PLC	**2YDF3**
	Tube	¼ in	11⁄64 in	PLC	**2YDE3**
		¼ in	11⁄64 in	PMC12	**2YDL4**
		¼ in	¼ in	PLC	**2YDE4**

Description	Pipe Fitting Connection Type	Pipe Size - Pipe Fitting	Tube Inside Dia.	Series	Item No.
Panel Mount Couplers					
Shut-Off Panel Mount Coupler					
	Barbed	¼ in	¼ in	PLC	**2YDD6**
		5⁄16 in	5⁄16 in	PLC	**2YDD7**
		⅜ in	⅜ in	PLC	**2YDD8**
	Tube	¼ in	11⁄64 in	PMC12	**2YDK3**

JG Super Speedfit®

Gray Acetal Push-In Fittings

- Max. pressure: 150 psi
- Temp. range: -14° to 167°F (air); 33° to 140°F (water)

For use with PVC, polyethylene, nylon, polyurethane, brass, copper, and mild steel tubing. Fittings have nitrile O-ring seal, stainless steel teeth, and can be used for potable water, food, chemical, pneumatic, reverse osmosis, plumbing, and fiber optic applications. FDA and NSF Approved.

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.	Pkg. Qty.
Adapter, Tube x Male BSPT				
	¼ in	⅛ in	1WRR8	10
	¼ in	¼ in	1WRR9	10
	⅜ in	¼ in	1WRT2	10
	⅜ in	⅜ in	1WRT3	10
	½ in	⅜ in	1WRT4	10
	½ in	½ in	1WRT5	10
Adapter, Tube x MNPT				
	5/32 in	⅛ in	1HLG9	10
	¼ in	⅜ in	1WRR1	10
	5/16 in	⅛ in	1WRR2	10
	5/16 in	¼ in	1WRR3	10
	⅜ in	⅛ in	1WRR4	10
	⅜ in	½ in	1WRR5	10
	⅝ in	¾ in	1WRR6	10
Female Adapter, Tube x FNPT				
	¼ in	¼ in	3ZLG1	10
	⅜ in	¼ in	3ZLG2	10
Fixed Elbow, Tube x MNPT				
	¼ in	⅛ in	4HN25	10
	¼ in	¼ in	4HN26	10
	¼ in	⅜ in	4HN27	10
	⅜ in	¼ in	4HN28	10
	⅜ in	⅜ in	4HN29	10
Male Adapter, Tube x MNPT				
	¼ in	⅛ in	4HN10	10
	¼ in	¼ in	4HN11	10
	⅜ in	¼ in	4HN12	10
	⅜ in	⅜ in	4HN13	10
	½ in	⅜ in	4HN14	10
	½ in	½ in	4HN15	10
Swivel Branch Tee, Tube x MNPT				
	¼ in	¼ in	1WTA2	10
	⅜ in	¼ in	1WTA4	10
Swivel Elbow, Tube x Male BSPT				
	¼ in	¼ in	1WRZ1	10
	⅜ in	¼ in	1WRZ4	10
Swivel Elbow, Tube x MNPT				
	¼ in	⅛ in	1WRY1	10
	¼ in	¼ in	1WRY2	10
	⅜ in	⅛ in	1WRY4	10
	⅜ in	¼ in	1WRY5	10
	⅜ in	⅜ in	1WRY6	10
	⅜ in	⅜ in	1WTP8	10
	½ in	⅜ in	1WRY7	10
	½ in	½ in	1WRY8	10

Description	Tube Size	Item No.	Pkg. Qty.
2-Way Divider, Tube			
	5/16 in	1WTD9	10
	¼ in	1WTD8	10
	⅜ in	1WTE1	10
	½ in	1WTE2	10
Bulkhead Union, Tube			
	¼ in	1WTB9	10
	⅜ in	1WTC2	10
	½ in	1WTC3	10
End Stop, Tube			
	¼ in	3ZLG3	10
	⅜ in	3ZLG4	10
Reducer Union, Tube			
	5/16 in x ¼ in	1WTC6	10
	⅜ in x ¼ in	1WTC8	10
	½ in x ⅜ in	1WTD1	10
Reducing Elbow, Tube			
	5/16 in x ¼ in	3ZLF4	10
	⅜ in x ¼ in	3ZLF6	10
Reducing Tee (run x run x outlet), Tube			
	⅜ in x ⅜ in x ¼ in	3ZLE9	10
	½ in x ½ in x ⅜ in	3ZLF1	10
Union Adapter, Tube			
	5/32 in	1WRU3	10
	3/16 in	1WRU4	10
	5/16 in	1WRU5	10
	¼ in	4HN22	10
	⅜ in	4HN23	10
	½ in	4HN24	10
Union Elbow, Tube			
	¼ in	4HN19	10
	5/16 in	1WRU2	10
	⅜ in	4HN20	10
	½ in	4HN21	10
Union Tee, Tube			
	5/16 in	3ZLD1	10
	¼ in	4HN16	10
	⅜ in	4HN17	10
	½ in	4HN18	10

Description	Stem OD	Tube Size	Item No.	Pkg. Qty.
Tube to Hose Adapter, Stem x Barb				
	¼ in	¼ in	1WTE4	10
	⅜ in	¼ in	1WTE6	10
	⅜ in	⅜ in	1WTE7	10
Reducer, Tube				
	⅜ in	¼ in	1WRW7	10
	½ in	⅜ in	1WRW9	10
Plug-In Elbow, Tube				
	¼ in	—	1WTD4	10
	⅜ in	⅜ in	1WTD6	10
	½ in	½ in	1WTD7	10
Plug, Tube Stem				
	¼ in	¼ in	1WRX3	10
	⅜ in	⅜ in	1WRX5	10
	½ in	½ in	1WRX6	10

Description	Size	Item No.	Pkg. Qty.
Check Valve, Push			
	¼"	2JFY8	1
	5/16"	2JFY9	1
	⅜"	1WTG1	1

Description	Inlet/Outlet Size	Includes	Item No.	Pkg. Qty.
Multi-Turn Supply Stop, Push				
	⅜ in	Short Handle	3ZLG8	1
	⅜ in	Long Handle	3ZLG9	1
	½ in	Long Handle	3ZLH1	1

Polypropylene Push-In Fittings

JG Super Speedfit®

- Max. pressure: 150 psi
- Temp. range: 9° to 150°F

EDPM seal and stainless steel teeth provide reliable retention. Just push on to connect. Use with LDPE, HDPE, and polypropylene tubing in potable water, food, cleaning, water purification, car wash, and fiber optic applications. FDA Approved.

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.	Pkg. Qty.
Elbow, Tube x MNPT				
	¼ in	⅛ in	1WTU5	10
	¼ in	¼ in	1WTU6	10
	¼ in	⅜ in	1WTU7	10
	⅜ in	¼ in	1WTU8	10
	⅜ in	⅜ in	1WTU9	10
Faucet Adapter, Tube				
	¼ in	7/16 in	1WTU4	10
	⅜ in	7/16 in	1WTU3	10
Male Adapter, Tube x MNPT				
	¼ in	⅛ in	1WTJ9	10
	¼ in	¼ in	1WTK1	10
	¼ in	⅜ in	1WTK2	10
	⅜ in	¼ in	1WTK3	10
	⅜ in	⅜ in	1WTK4	10
	⅜ in	½ in	1WTK5	10
	½ in	⅜ in	1WTK6	10
	½ in	½ in	1WTK7	10

Description	Tube Size	Item No.	Pkg. Qty.
Union Adapter, Tube			
	¼ in	1WTL7	10
	5/16 in	1WTL8	10
	⅜ in	1WTL9	10
	½ in	1WTN1	10
Reducing Union, Tube			
	½ in x ⅜ in	1WTT2	10
Bulkhead Adapter, Tube			
	¼ in	1WTR8	10
	⅜ in	1WTR9	10
	½ in	1WTT1	10
Union Elbow, Tube			
	¼ in	1WTL3	10
	5/16 in	1WTL4	10
	⅜ in	1WTL5	10
	½ in	1WTL6	10
Union Tee, Tube			
	¼ in	1WTK8	10
	5/16 in	1WTK9	10
	⅜ in	1WTL1	10
	½ in	1WTL2	10

Description	Inlet Size	Outlet Size	Inlet Type	Outlet Type	Item No.	Pkg. Qty.
Quarter-Turn Supply Stops						
	¼ in	¼ in	MNPT	Push to Connect	4HN33	5
	⅜ in	⅜ in	Push	MNPT	4HN34	5
	¼ in	¼ in	Push	Push to Connect	4HN35	5
	⅜ in	⅜ in	Push	Push to Connect	4HN36	5

Description	Stem OD	Tube Size	Item No.	Pkg. Qty.
Reducer, Tube				
	⅜ in	¼ in	1WTN8	10
	—	½ in x ⅜ in	1WTN9	10

Nickel-Plated Brass Push-To-Connect Fittings and Chrome-Plated Mini-Ball Valves

- Max. pressure: 250 psi
- Temp. range: 0° to 160°F

Designed for use on all pneumatic circuits and feature a quick connect/disconnect positive seal. Push-in design requires no special tools. For use with nylon, polyethylene, and polyurethane tubing and suitable for use in air, water, and oil applications.

MINI-BALL VALVES

Reduced port valves feature nitrile rubber seals, PTFE seats, and brass stem.

Tube Size	Pipe Size - Pipe Fitting	Male Adapter, Tube x MNPT Item No.	Male Elbow, Tube x MNPT Item No.	Tee, Tube Item No.
⅛ in	⅛ in	22FR76	22FR84	—
¼ in	—	—	—	22FR64
¼ in	⅛ in	22FR77	22FR85	—
¼ in	¼ in	22FR78	22FR86	—
⅜ in	—	—	—	22FR65
⅜ in	⅛ in	22FR80	—	—
⅜ in	¼ in	22FR81	22FR88	—
⅜ in	⅜ in	22FR82	22FR89	—
½ in	½ in	22FR83	22FR90	—

Pipe Size	Tube Size	Ball Valve, FNPT x MNPT Item No.	Mini-Ball Valve, FNPT x MNPT Item No.
¼ in	—	22FT07	—
⅜ in	⅜"	—	22FT08
½ in	—	—	22FT09

Tube Size	Bulkhead Union, Tube Item No.
¼ in	22FR67
½ in	22FR69

Prestolok Nickel-Plated Brass Push-To-Connect Fittings

Parker

- Max. operating pressure: 300 psi
- Max. operating temp.: 0° to 200°F (depending on tubing used)
- Pkg. qty.: 10

Compact, 1-pc., nickel-plated brass fittings are designed for low-pressure circuits, easy to assemble, and for use with polyethylene, nylon, or polyurethane tubing. Support ferrules or I.D. tube supports only required for thin-walled poly tubing. Vacuum applications depend on temperature and tubing type.

WARNING: For use only with air, water, oil, and nonreactive gases. Do not use where accidental separation of tube and fitting could cause injury. Not recommended for continuous-pressure cycling applications.

Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow w/ Sealant, Tube x MNPT Item No.	90° Swivel Male Elbow w/Sealant, Tube x MNPT Item No.	Swivel Male Run Tee w/ Sealant, Tube x MNPT Item No.	Swivel Branch Tee w/Sealant, Tube x MNPT Item No.	Male Connector w/Sealant, Tube x MNPT Item No.	Male Connector, Tube x BSPP Item No.
⅛ in	1⁄16 in	—	—	—	—	1AJV1	—
⅛ in	⅛ in	1AJW3	1AJN5	1AJX1	1AJT6	1AJY2	—
⅛ in	¼ in	—	1AJN4	—	—	1AJV2	—
5⁄32 in	⅛ in	1AJW6	1AJP3	1AJT1	1AJX7	1AAE6	—
5⁄32 in	¼ in	1AJW7	1AJP4	—	—	1AAE7	—
3⁄16 in	⅛ in	—	1AJN6	—	1AJX4	1AJV3	—
3⁄16 in	¼ in	—	—	—	—	1AJV4	—
¼ in	1⁄16 in	—	—	—	—	1AJV5	—
¼ in	⅛ in	1AJW4	1AJN7	1AJR8	1AJX5	1AJY3	1AJH3
¼ in	¼ in	1AJW5	1AJP1	1AJR9	1AJX6	1AAE4	1AJH2
¼ in	⅜ in	—	1AJP2	—	—	1AAE5	1AJJ5
5⁄16 in	⅛ in	1AJR3	1AJN8	1AJT2	1AJT7	1AJV6	—
5⁄16 in	¼ in	1AJR4	1AJN9	1AJT3	1AJT8	1AJV7	—
5⁄16 in	⅜ in	—	—	—	—	1AJV8	—
⅜ in	⅛ in	—	1AJP5	—	—	1AAE8	—
⅜ in	¼ in	1AJW8	1AJP6	1AJT4	1AJX8	1AAE9	1AJJ7
⅜ in	⅜ in	1AJW9	1AJP7	1AJT5	1AJX9	1AAF1	1AJJ8
⅜ in	½ in	1AJR5	1AJP8	—	—	1AAF2	1AJJ6
½ in	¼ in	—	1AJP9	—	—	1AJV9	—
½ in	⅜ in	1AJR6	1AJR1	1AJX2	1AJT9	1AJW1	1AJK1
½ in	½ in	1AJR7	1AJR2	—	1AJY1	1AJW2	1AJJ9

Tube Size	Pipe Size / Pipe Fitting	90° Swivel Male Elbow, Tube x UNF Item No.	Male Connector, Tube x UNF Item No.
⅛ in	10/32 in	1AJG7	1AJN1
5⁄32 in	10/32 in	1AJG8	1AJN3
¼ in	10/32 in	1AJG4	1AJN2

Tube Size	90° Union Elbow, Tube Item No.	Union Tee, Tube Item No.	Union, Tube Item No.	Bulkhead Union, Tube Item No.
⅛ in	1AJF9	1AAD7	1AJK2	1AJK9
5⁄32 in	1AJG3	1AAE1	1AJK6	1AJL3
3⁄16 in	—	1AAD8	1AJK3	—
¼ in	1AJG1	1AAD9	1AJK4	1AJL1
5⁄16 in	1AJG2	1AAE2	1AJK5	1AJL2
⅜ in	1AJG5	1AAE3	1AJK7	1AJL4
½ in	1AJG6	1AJF8	1AJK8	1AJL5

Tube Size	Pipe Size - Pipe Fitting	Female Adapter, Tube x FNPT Item No.	Bulkhead Female Connector, Tube x FNPT Item No.
⅛ in	⅛ in	1AJL6	—
5⁄32 in	⅛ in	1AJH7	—
5⁄32 in	¼ in	1AJH8	1AJL7
3⁄16 in	⅛ in	1AJH4	—
¼ in	⅛ in	1AJH5	—
¼ in	¼ in	1AJH6	1AJJ4
5⁄16 in	⅛ in	1AJH9	—
5⁄16 in	¼ in	1AJJ1	—
⅜ in	¼ in	1AJJ2	—
⅜ in	⅜ in	1AJJ3	1AJL8
½ in	⅜ in	—	1AJL9

316 Stainless Steel Push-To-Connect Fittings

SMC

- Max. pressure: 435 psi
- Temp. range: 23° to 302°F

For use in washdown or caustic environments that require 316 stainless steel. FKM seals. Compatible with FEP, PFA, nylon, soft nylon, polyurethane, and polyolefin tubing. Grease-free fittings. RoHS compliant.

Tube x MNPT

Male Adapter

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Adapter	5⁄32 in	⅛ in	19F709
	¼ in	10/32 in	19F717
	¼ in	⅛ in	19F718
	¼ in	¼ in	19F719
	5⁄16 in	⅛ in	19F724
	5⁄16 in	¼ in	19F725
	⅜ in	¼ in	19F729
	⅜ in	⅜ in	19F730
	½ in	¼ in	19F735
	½ in	⅜ in	19F736
	½ in	½ in	19F737

Male Branch Tee

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Branch Tee	5⁄32 in	⅛ in	19F768
	¼ in	⅛ in	19F770
	¼ in	¼ in	19F771
	5⁄16 in	⅛ in	19F773
	5⁄16 in	¼ in	19F774
	⅜ in	⅛ in	19F776
	⅜ in	¼ in	19F777
	⅜ in	⅜ in	19F778
	½ in	½ in	19F780

Male Elbow

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Elbow	5⁄32 in	⅛ in	19F739
	5⁄32 in	¼ in	19F740
	¼ in	10-32 in	19F747
	¼ in	⅛ in	19F748
	¼ in	¼ in	19F749
	¼ in	⅜ in	19F750
	5⁄16 in	⅛ in	19F755
	5⁄16 in	¼ in	19F756
	5⁄16 in	⅜ in	19F757
	⅜ in	⅛ in	19F761
	⅜ in	¼ in	19F762
	⅜ in	⅜ in	19F763
	⅜ in	½ in	19F764
	½ in	¼ in	19F766
	½ in	½ in	19F767

Tube x R(PT)

Male Adapter

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Adapter	5⁄32 in	M5 x 51⁄64 in	19F711
	5⁄16 in	⅛ in	19F721
	5⁄16 in	¼ in	19F722
	5⁄16 in	⅜ in	19F723
	6mm	⅛ in	19F713
	6mm	M5 x 51⁄64 in	19F715
	6mm	¼ in	19F714
	10mm	¼ in	19F727
	12mm	⅜ in	19F732
	12mm	½ in	19F733

Male Elbow

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Elbow	5⁄32 in	M5 x 51⁄64 in	19F742
	¼ in	⅛ in	19F743
	¼ in	¼ in	19F744
	¼ in	M5 x 51⁄64 in	19F745
	5⁄16 in	⅛ in	19F752
	5⁄16 in	¼ in	19F753
	5⁄16 in	⅜ in	19F754
	13⁄32 in	¼ in	19F758
	13⁄32 in	⅜ in	19F759

Tube x Tube

Bulkhead Union

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Bulkhead Union	5⁄32 in	—	19F704
	¼ in	—	19F706
	⅜ in	—	19F707
	6mm	—	19F705

Straight Union

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Straight Union	5⁄32 in	—	19F710
	¼ in	—	19F712
	¼ in	–	19F716
	5⁄16 in	5⁄32 in	19F720
	⅜ in	—	19F728
	½ in	—	19F734
	10mm	—	19F726
	12mm	—	19F731

Union Elbow

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Union Elbow	5⁄32 in	—	19F741
	¼ in	—	19F746
	5⁄16 in	—	19F751
	⅜ in	—	19F760
	½ in	—	19F765

Union Tee

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Union Tee	¼ in	—	19F769
	5⁄16 in	—	19F772
	⅜ in	—	19F775
	½ in	—	19F779

Tube x UNF

Male Adapter

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Adapter	5⁄32 in	10/32 in	19F708

Male Elbow

Description	Tube Size	Pipe Size - Pipe Fitting	Item No.
Male Elbow	5⁄32 in	10/32 in	19F738

Chrome-Plated Brass Mini-Ball Valves

ALPHA FITTINGS & ACCESSORIES

- Max. pressure: 290 psi
- Temp. range: 0° to 175°F
- Vacuum: 0 to 20 bar
- PTFE ball seat

Suitable for use with air, oil, nonpotable water, and inert gas.

Pipe Size	3-Way FNPT x FNPT x FNPT Features	3-Way Item No.	Angle FNPT x FNPT Features	Angle Item No.
⅛ in	Closed Center	1ZPK4	¼ Turn Shut-Off	1ZPJ4
⅛ in	Open Center	1ZPK7	—	—
¼ in	Closed Center	1ZPK5	¼ Turn Shut-Off	1ZPJ5
¼ in	Open Center	1ZPK8	—	—
⅜ in	Closed Center	1ZPK6	¼ Turn Shut-Off	1ZPJ6
⅜ in	Open Center	1ZPK9	—	—

Tube Size	Features	Inline MNPT x Push Item No.	Inline Push x Push Item No.
⅛ in	¼ Turn Shut-Off	—	1ZPK1
¼ in	¼ Turn Shut-Off	1ZPJ7	1ZPK2
¼ in	¼ Turn Shut-Off	1ZPJ8	—
⅜ in	¼ Turn Shut-Off	1ZPJ9	1ZPK3

Silicone-Free Nickel-Plated Brass Push-To-Connect Fittings

legris

- Max. working pressure: 7 to 435 psi
- Working temp. range: -4° to 302°F
- FKM O-ring

Fittings are easy to install, connect, and disconnect. The high phosphorus chemical nickel plating resists abrasion, chemicals, and corrosion. Fittings are ideal for aggressive environments such as in welding applications where fittings must remain intact even if hit by weld spatter. FDA approved for use in food processing applications.

Tube Size	Pipe Size - Pipe Fitting	Female Connector, Tube x BSPP Item No.
¼ in	⅛ in	18E470
¼ in	¼ in	18E471
5⁄16 in	⅛ in	18E472
5⁄16 in	¼ in	18E473

Tube Size	Pipe Size - Pipe Fitting	Male Branch Tee, Tube x BSPT Item No.	Male Branch Tee, Tube x Male BSPP Item No.
¼ in	⅛ in	—	3ZNP3
¼ in	¼ in	—	3ZNP4
5⁄16 in	⅛ in	18E499	—
5⁄16 in	¼ in	—	3ZNP5
13⁄32 in	¼ in	—	3ZNP6

Tube Size	Pipe Size - Pipe Fitting	90° Swivel Male Elbow, Tube x MNPT Item No.	Male Connector, Tube x MNPT Item No.
5⁄32 in	⅛ in	3ZNT1	3ZNU9
5⁄32 in	¼ in	3ZNT2	3ZNV1
¼ in	⅛ in	3ZNT3	3ZNV2
¼ in	¼ in	3ZNT4	3ZNV3
⅜ in	¼ in	3ZNT5	3ZNV4
⅜ in	⅜ in	3ZNT6	3ZNV5
½ in	⅜ in	3ZNT7	3ZNV6
½ in	½ in	3ZNT8	3ZNV7

Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow, Tube x BSPP Item No.	90° Male Swivel Elbow, Tube x BSPT Item No.
5⁄32 in	⅛ in	18E485	3ZNR4
5⁄32 in	¼ in	18E486	3ZNR5
5⁄32 in	M5	18E487	—
5⁄32 in	10/32 in	18E488	—
5⁄32 in	M6	18E489	—
¼ in	⅛ in	18E490	—
¼ in	¼ in	18E491	—
¼ in	M10	18E492	—
5⁄16 in	⅛ in	18E493	—
5⁄16 in	¼ in	18E494	—
5⁄16 in	⅜ in	18E495	—
13⁄32 in	¼ in	18E496	—
13⁄32 in	⅜ in	18E497	18E481
15⁄32 in	¼ in	18E498	—
6mm	⅛ in	—	3ZNR6
6mm	¼ in	—	3ZNR7
8mm	¼ in	—	3ZNR8
8mm	⅛ in	—	18E479
8mm	⅜ in	—	18E480
10mm	¼ in	—	3ZNR9
12mm	¼ in	—	18E482
12mm	⅜ in	—	18E483
12mm	½ in	—	18E484

Tube Size	90° Union Elbow, Tube x Tube Item No.	Union Tee, Tube x Tube Item No.	Union, Tube x Tube Item No.	Straight Union, Tube x Tube Item No.
5⁄32 in	—	3ZNL5	3ZNN3	—
¼ in	3ZNK8	3ZNL9	3ZNN4	—
¼ in	3ZNL2	—	3ZNN8	—
5⁄16 in	3ZNK9	3ZNL7	3ZNN5	—
⅜ in	3ZNL3	3ZNN1	—	—
13⁄32 in	—	3ZNL8	3ZNN6	—
15⁄32 in	18E501	18E502	—	18E503
½ in	3ZNL4	3ZNN2	3ZNP1	—
6mm	—	3ZNL6	—	—

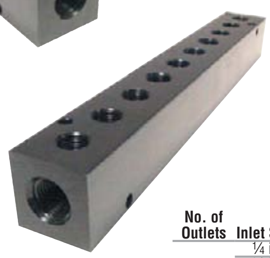
Tube Size	Bulkhead Union, Tube x Tube Item No.	Plug-In Adapter, Tube x Tube Item No.	Adapter, Tube x Tube Item No.
5⁄32 in	18E474	—	—
¼ in	18E475	—	—
¼ in x ¼" Adaptor	—	3ZNT9	—
¼ in x 8mm Adaptor	—	—	18E504
5⁄16 in	18E476	—	—
5⁄16 in x 10mm Adaptor	—	—	18E505
13⁄32 in	18E477	—	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector, Tube x BSPP Item No.	Male Connector, Tube x BSPT Item No.
5⁄32 in	⅛ in	18E451	3ZNU3
5⁄32 in	¼ in	18E452	3ZNU4
5⁄32 in	M5	18E453	—
5⁄32 in	10/32 in	18E454	—
5⁄32 in	M6	18E455	—
5⁄32 in	M8	18E456	—
¼ in	⅛ in	18E457	3ZNU5
¼ in	¼ in	18E458	3ZNU6
¼ in	M5	18E459	—
¼ in	M10	18E460	—
5⁄16 in	⅛ in	18E461	18E442
5⁄16 in	¼ in	18E462	3ZNU7
5⁄16 in	⅜ in	18E463	18E443
13⁄32 in	¼ in	18E464	3ZNU8
13⁄32 in	⅜ in	18E465	18E444
13⁄32 in	½ in	18E466	18E445

Metal Manifolds

BIMBA | PNEUMADYNE

2KGZ2



2KGZ9

- Max. pressure: 1000 psi, except stainless steel are 3500 psi
- Temp. range: -10° to 200°F, except stainless steel are -100° to 500°F
- Mounting hole: 49AV63 to 49AV90 are 0.26", stainless steel are 0.20"

Simple tube run design and layout reduces clutter, eases troubleshooting, and provides the basis for orderly tube runs. FNPT connections. Models with 90° port orientation allow manifolds to be configured and mounted in difficult applications. All are for use with air, water, and hydraulic oils, except black anodized aluminum are also for use with natural gas and gasoline.

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Mounting Hole Size	Black Anodized Aluminum Item No.	Black Anodized Aluminum w/90° Ports Item No.
2	¼ in	⅛ in	1 ¾ in	1 in	1 in	0.17 in	2KGZ2	2KHA1
	⅜ in	¼ in	2 ⅛ in	1 ¼ in	1 ¼ in	0.2 in	2KHA7	2KHC6
	½ in	⅜ in	2 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD4	2KHE3
	¾ in	⅜ in	4 ⅝ in	1 ½ in	1 ½ in	0.2 in	2KHH2	—
3	¼ in	⅛ in	2 ½ in	1 in	1 in	0.17 in	2KGZ3	2KHA2
	⅜ in	¼ in	3 in	1 ¼ in	1 ¼ in	0.2 in	2KHA8	2KHC7
	½ in	⅜ in	3 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD5	2KHE4
	¾ in	⅜ in	5 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHH3	—
4	¼ in	⅛ in	3 ¼ in	1 in	1 in	0.17 in	2KGZ4	2KHA3
	⅜ in	¼ in	3 ⅞ in	1 ¼ in	1 ¼ in	0.2 in	2KHA9	2KHC8
	½ in	⅜ in	4 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD6	2KHE5
	¾ in	⅜ in	6 ⅞ in	1 ½ in	1 ½ in	0.2 in	2KHH4	—
5	¼ in	⅛ in	4 in	1 in	1 in	0.17 in	2KGZ5	2KHA4
	⅜ in	¼ in	4 ¾ in	1 ¼ in	1 ¼ in	0.2 in	2KHC1	2KHC9
	½ in	⅜ in	5 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD7	2KHE6
	¾ in	⅜ in	8 in	1 ½ in	1 ½ in	0.2 in	2KHH5	—
6	¼ in	⅛ in	4 ¾ in	1 in	1 in	0.17 in	2KGZ6	2KHA5
	⅜ in	¼ in	5 ⅝ in	1 ¼ in	1 ¼ in	0.2 in	2KHC2	2KHD1
	½ in	⅜ in	6 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD8	2KHE7
	¾ in	⅜ in	9 ⅛ in	1 ½ in	1 ½ in	0.2 in	2KHH6	—
7	¼ in	⅛ in	5 ½ in	1 in	1 in	0.17 in	2KGZ7	—
	⅜ in	¼ in	6 ½ in	1 ¼ in	1 ¼ in	0.2 in	2KHC3	—
	½ in	⅜ in	7 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHD9	—
8	¼ in	⅛ in	6 ¼ in	1 in	1 in	0.17 in	2KGZ8	2KHA6
	⅜ in	¼ in	7 ⅜ in	1 ¼ in	1 ¼ in	0.2 in	2KHC4	2KHD2
	½ in	⅜ in	8 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHE1	2KHE8
	¾ in	⅜ in	11 ⅜ in	1 ½ in	1 ½ in	0.2 in	2KHH7	—
10	¼ in	⅛ in	7 ¾ in	1 in	1 in	0.17 in	2KGZ9	—
	⅜ in	¼ in	9 ⅛ in	1 ¼ in	1 ¼ in	0.2 in	2KHC5	2KHD3
	½ in	⅜ in	10 ¾ in	1 ½ in	1 ½ in	0.2 in	2KHE2	2KHE9
	¾ in	⅜ in	13 ⅝ in	1 ½ in	1 ½ in	0.2 in	2KHH8	—

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Aluminum Item No.	Aluminum w/90° Ports Item No.
2	1 in	½ in	5 ¼ in	2 ¼ in	2 ¼ in	49AV63	—
	1 in	¾ in	6 in	2 ¼ in	2 ¼ in	49AV70	—
3	1 in	½ in	7 ½ in	2 ¼ in	2 ¼ in	49AV64	—
	1 in	¾ in	9 in	2 ¼ in	2 ¼ in	49AV71	—
4	1 in	½ in	5 ¼ in	2 ¼ in	2 ¼ in	—	49AV77
	1 in	½ in	9 ¾ in	2 ¼ in	2 ¼ in	49AV65	—
	1 in	¾ in	12 in	2 ¼ in	2 ¼ in	49AV72	—
	1 in	¾ in	6 in	2 ¼ in	2 ¼ in	—	49AV84
5	1 in	½ in	12 in	2 ¼ in	2 ¼ in	49AV66	—
	1 in	¾ in	15 in	2 ¼ in	2 ¼ in	49AV73	—
6	1 in	½ in	14 ¼ in	2 ¼ in	2 ¼ in	49AV67	—
	1 in	½ in	7 ½ in	2 ¼ in	2 ¼ in	—	49AV78
	1 in	¾ in	18 in	2 ¼ in	2 ¼ in	49AV74	—
	1 in	¾ in	9 in	2 ¼ in	2 ¼ in	—	49AV85
7	1 in	½ in	16 ½ in	2 ¼ in	2 ¼ in	49AV68	—
	1 in	¾ in	21 in	2 ¼ in	2 ¼ in	49AV75	—
8	1 in	½ in	18 ¾ in	2 ¼ in	2 ¼ in	49AV69	—
	1 in	½ in	9 ¾ in	2 ¼ in	2 ¼ in	—	49AV79
	1 in	¾ in	24 in	2 ¼ in	2 ¼ in	49AV76	—
	1 in	¾ in	12 in	2 ¼ in	2 ¼ in	—	49AV86
10	1 in	½ in	12 in	2 ¼ in	2 ¼ in	—	49AV80
	1 in	¾ in	15 in	2 ¼ in	2 ¼ in	—	49AV87
12	1 in	½ in	14 ¼ in	2 ¼ in	2 ¼ in	—	49AV81
	1 in	¾ in	18 in	2 ¼ in	2 ¼ in	—	49AV88
14	1 in	½ in	16 ½ in	2 ¼ in	2 ¼ in	—	49AV82
	1 in	¾ in	21 in	2 ¼ in	2 ¼ in	—	49AV89
16	1 in	½ in	18 ¾ in	2 ¼ in	2 ¼ in	—	49AV83
	1 in	¾ in	24 in	2 ¼ in	2 ¼ in	—	49AV90

No. of Outlets	Inlet Size	Outlet Size	Overall Length	Overall Width	Overall Height	Stainless Steel Item No.
2	⅜ in	¼ in	2 ⅛ in	1 ¼ in	1 ¼ in	2KHL7
4	⅜ in	¼ in	3 ⅞ in	1 ¼ in	1 ¼ in	2KHL8
6	⅜ in	¼ in	5 ⅝ in	1 ¼ in	1 ¼ in	2KHL9
8	⅜ in	¼ in	7 ⅜ in	1 ¼ in	1 ¼ in	2KHN1
10	⅜ in	¼ in	9 ⅛ in	1 ¼ in	1 ¼ in	2KHN2

Brass and Lead-Free Brass 45° and Flare Fittings

Parker

- Temp. range: -65° to 250°F
- Pkg. qty.: 10, except where noted

May be disassembled and reassembled repeatedly. Resist mechanical pull-out and are suitable for use with thin-wall tubing. Material and working pressure of tubing must be determined before using in a specific application. Suitable for use in refrigeration equipment, air compressors, and machinery. Can be used with flareable copper, brass, aluminum, and welded steel hydraulic tubing. UL Listed for flammable liquids. Meet SAE J512 and J513. Lead-free fittings are certified for use in potable water applications.

PSI Ratings		
Tube Size	Max. psi	Tube Wall (in.)
⅛"	2800	0.030
3/16"	1900	0.030
¼"	1400	0.030
5/16"	1200	0.032
⅜"	1000	0.032
½"	750	0.032
⅝"	650	0.035
¾"	550	0.035
⅞"	440	0.035

Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Extruded Male 90° Elbow Item No.	Female Connector Item No.	45° Male Elbow Item No.	90° Female Elbow Item No.	Male Branch Tee Item No.	Male Run Tee Item No.
Lead-Free, MNPT x Flare								
¼ in	⅜ in	—	—	—	—	—	20XN23 †	—
⅝ in	½ in	—	—	—	—	—	20XN24 †	—
Tube x Thread								
3/16 in	⅛ in	⅜-24	5WRW7	1VDV4	—	—	—	—
¼ in	⅛ in	7/16-20	5WRW8	2P186	1VEC5	2P198	1VDY6	1VEB5
¼ in	¼ in	7/16-20	5WRW9	1VDV5	1VEC7	2P199	2P204	1VEB6
¼ in	⅜ in	7/16-20	5WRX0	1VDV6	—	—	—	—
5/16 in	⅛ in	½-20	5WRX1	1VDV7	—	—	—	—
5/16 in	¼ in	½-20	5WRX2	1VDV8	—	1VEB2	—	—
⅜ in	⅛ in	⅝-18	5WRX3	1VDV9	—	—	—	—
⅜ in	¼ in	⅝-18	5WRX4	2P187	1VEC9	1VEB4	1VDY8	1VEB7
⅜ in	⅜ in	⅝-18	5WRX5	2P188	1VED2	2P200	2P205	1VEB8
⅜ in	½ in	⅝-18	5WRX6	1VDW1	—	2P201	—	—
½ in	¼ in	¾-16	—	1VDW2	—	—	—	—
½ in	⅜ in	¾-16	5WRX7	2P189	1VED4	2P202	1VDZ1	1VEB9
½ in	½ in	¾-16	5WRX8	2P190	1VED6	2P203	2P206	5WRU7 †
½ in	¾ in	¾-16	—	2P191	—	—	—	—
⅝ in	⅜ in	⅞-14	—	—	5WRY4	—	—	—
⅝ in	½ in	⅞-14	5WRX9	2P192	1VEC3	—	—	5WRU8 †

Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Male 90° Forged Elbow Item No.	Male Connector Item No.
Tube x Thread				
3/16 in	⅛ in	⅜-24	1VDZ6	1VDW8
	¼ in	⅜-24	—	1VDW9
¼ in	⅛ in	7/16-20	1VDZ7	2P178
	¼ in	7/16-20	1VDZ8	2P179
	⅜ in	7/16-20	1VDZ9	1VDX1
	½ in	7/16-20	—	1VDX2
5/16 in	⅛ in	½-20	1VEA1	1VDX3
	¼ in	½-20	1VEA2	1VDX4
	⅜ in	½-20	1VEA3	1VDX5
⅜ in	⅛ in	⅝-18	1VEA6	1VDX7
	¼ in	⅝-18	2P193	2P180
	⅜ in	⅝-18	2P194	2P181
	½ in	⅝-18	2P195	2P182
	¾ in	⅝-18	—	1VDX6
½ in	¼ in	¾-16	1VEA9	1VDX9
	⅜ in	¾-16	1VEB1	2P183
	½ in	¾-16	2P196	2P184
	¾ in	¾-16	1VEA8	1VDX8
⅝ in	¼ in	⅞-14	—	1VDW4
	⅜ in	⅞-14	1VDZ3	1VDW5
	½ in	⅞-14	2P197	2P185
	¾ in	⅞-14	1VDZ2	1VDW3
¾ in	½ in	11/16-14	1VDZ5	—
	½ in	1 1/16-14	—	1VDW7
	¾ in	11/16-14	1VDZ4	—
	¾ in	1 1/16-14	—	1VDW6

Tube Size	Flare Thread Size	Adapter Item No.	Cap Item No.	Plug Item No.	Union Tee Item No.
Tube x Tube					
3/16 in	⅜-24	—	1VDY1	—	1VDY4
¼ in	7/16-20	1VDV1	1VDY2	2P174	2P163
5/16 in	½-20	—	1VDY3	—	1VDY5
⅜ in	⅝-18	1VDV2	2P171	2P175	2P164
½ in	¾-16	1VDV3	2P172	2P176	2P165
⅝ in	⅞-14	1VDU9	2P173	2P177	2P166
¾ in	1/16-14	5WRU9 †	—	—	5WRV1 †
¾ in	1 1/16-14	—	5WRV2 †	—	—

Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Reducing Tee (run x run x outlet) Item No.	Union Reducer Item No.
Lead-Free, Flare				
⅜ in x ½ in	—	—	20XN36 †	—
⅜ in x ⅜ in x ¼ in	—	—	20XN37 †	—
⅜ in x ⅜ in x ½ in	—	—	20XN38 †	—
½ in x ½ in x ⅜ in	—	—	20XN39 †	—
½ in x ½ in x ⅝ in	—	—	20XN40 †	—
⅝ in x ⅝ in x ½ in	—	—	20XN41 †	—
Tube x Tube				
⅜ in x ¼ in	⅝ in -18	⅝-18 x 7/16-20	—	1VDU5
⅜ in x 5/16 in	⅝ in -18	⅝-18 x ½-20	—	1VDU6
½ in x ¼ in	¾ in -16	7/16-20	—	1VDU7
½ in x ⅜ in	¾ in -16	⅝-18	—	1VDU8
⅝ in x ½ in	⅞ in -14	⅞-14 x ¾-16	—	1VDU4

Tube Size	Copper Flare Gasket Item No.	Copper Seal Bonnet Item No.
Tube x Tube		
3/16 in	5WRW0	—
¼ in	5WRW1	5WRV4
5/16 in	5WRW2	5WRV5
⅜ in	5WRW3	5WRV6
½ in	5WRW4	5WRV7
⅝ in	5WRW5	5WRV8
¾ in	5WRW6	—

Tube Size	Flare Thread Size	Long Forged Nut Item No.	Long Nut Item No.	Short Forged Nut Item No.	Short Nut Item No.	Union Item No.	Union Elbow, 90° Item No.
Tube x Tube							
⅛ in	5/16-24	—	1VDR7	—	1VDT6	—	—
3/16 in	⅜-24	—	1VDR9	—	1VDT8	1VDU2	5WRV0 †
¼ in	7/16-20	2P147	2P143	2P155	2P151	2P159	2P167
5/16 in	½-20	—	1VDT2	—	1VDT9	1VDU3	1VEC2
⅜ in	⅝-18	2P148	2P144	2P156	2P152	2P160	2P168
½ in	¾-16	2P149	2P145	2P157	2P153	2P161	2P169
⅝ in	⅞-14	2P150	2P146	2P158	2P154	2P162	2P170
¾ in	1 1/16-14	—	1VDR5	—	—	—	—
¾ in	1/16-14	—	—	—	1VDT4	1VDU1	—

Tube Size	Flare Thread Size	Pkg. Qty.	Extruded Reducers Item No.
Tube x Tube			
⅜ in x ½ in	⅝-18	10	18E811
½ in x ⅜ in	¾-16	10	18E812
½ in x ⅝ in	¾-16	10	18E813
⅝ in x ¾ in	⅞-14	5	18E814

Tube Size	Pipe Size - Pipe Fitting	Extruded 45° Elbow Item No.
Tube x Thread		
¼ in	⅛ in	18E815
¼ in	¼ in	18E816
⅜ in	¼ in	18E817
⅜ in	⅜ in	18E818
½ in	⅜ in	18E819

† Sold in pkg. of 1.

Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Pkg. Qty.	Forged 90° Swivel Elbow Item No.
Tube x Thread				
¼ in	¼ in	7/16-20	10	18E821
⅜ in	⅜ in	⅝-18	5	18E822
½ in	½ in	¾-16	5	18E823
⅝ in	⅝ in	⅞-14	5	18E824
¾ in	¾ in	1 1/16-14	5	18E825

Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow Item No.
Lead-Free, Flare		
¼ in	¼ in	19H213 †
¼ in	½ in	20XN30 †
⅜ in	½ in	19H214 †
⅜ in	¾ in	20XN31 †
½ in	¾ in	20XN32 †
⅝ in	½ in	20XN33 †
⅝ in	¾ in	20XN34 †
Lead-Free, Threaded Both Sides		
—	¼ in x ½ in	5KNG3 †
—	⅝ in x ½ in	5KNG6 †
½ in	⅜ in	5KNG4 †
⅝ in	⅜ in	5KNG5 †

Tube Size	Pipe Size - Pipe Fitting	Female Flare Connector Item No.
Lead-Free		
¼ in	¼	5KNH0 †
⅜ in	—	5KNH2 †
⅜ in	7/16 in -20	5KNH1 †

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CONTINUED

Brass and Lead-Free Brass 45° and Flare Fittings

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.
Lead-Free, MNPT x Flare		
⅛ in	⅛ in	20XN28 †
Lead-Free, Threaded		
½ in	¼ in	19H210 †
Lead-Free, Flare		
½ in	⅜ in	19H211 †
½ in	½ in	19H212 †

Tube Size	Pipe Size - Pipe Fitting	Flare Thread Size	Male Connector Item No.
Lead-Free, Male Flare x MNPT			
¼ in	⅛ in	7/16-20	46M522 †
¼ in	¼ in	7/16-20	46M521 †
¼ in	¼ in	—	20XN48 †
¼ in	⅜ in	7/16-20	46M520 †
⅜ in	¼ in	⅝-18	46M519 †
⅜ in	⅜ in	⅝-18	46M518 †
⅜ in	½ in	⅝-18	46M517 †
½ in	⅜ in	¾-16	46M516 †
½ in	½ in	¾-16	46M515 †
⅝ in	½ in	⅞-14	46M514 †

Tube Size	Flare Thread Size	Male Union Item No.	Plug Item No.
Lead-Free, Male Flare			
¼ in	7/16-20	46M525 †	—
⅜ in	⅝-18	46M524 †	46M530 †
½ in	¾-16	46M523 †	46M529 †

Tube Size	Flare Thread Size	Cap Item No.	Forged Nut Item No.	Short Nut Item No.
Lead-Free, Female Flare				
¼ in	7/16-20	46M528 †	46M534 †	46M537 †
⅜ in	⅝-18	46M527 †	46M533 †	46M536 †
½ in	¾-16	46M526 †	46M532 †	46M535 †
⅝ in	⅞-14	—	46M531 †	—
Lead-Free, Flare				
⅜ in	⅝-18	19H215 †	—	—

Tube Size	Swivel Connector Item No.
Lead-Free, Flare	
¼ in	20XN42 †
¼ in x ⅜ in	20XN46 †
⅜ in	20XN43 †
⅜ in x ½ in	20XN47 †
½ in	20XN44 †
⅝ in	20XN45 †

† Sold in pkg. of 1.

Tube Size	Female Coupling Connection	Female Coupling Item No.	Reducer Connection	Reducer Item No.
Lead-Free				
⅜ in	Flare x Compression	20XN49 †	—	—
⅜ in x ⅝ in	—	—	Male Flare x Male Flare	20XN35 †

316 Stainless Steel 37° Flare Tube Fittings

Air-Way Manufacturing Company

- Temp. range: -160° to 1200°F

Superior chemical, water, and corrosion resistance for extreme applications. Good sealing reliability. Use as an adapter to hose assemblies, or as a tube fitting with flared stainless seamless or welded tubing. Suitable for chemical plants, food plants, hydraulic applications, manufacturing facilities, water treatment plants, and beverage plants. Meet SAE J514.

Tube Size	Flare Thread Size	Max. Pressure	Cap, JIC Item No.	Male Connector, Flare x MNPT Item No.	Male Elbow, 90°, Flare x JIC Item No.	Male Elbow, 90°, Flare x MNPT Item No.	Male Plug, 37°, Flare x JIC Item No.	Male Straight Union, Flare x Flare Item No.	Tube Nut, JIC Item No.	Tube Sleeve, Flare x JIC Item No.
Airway										
¼ in	7/16-20	6000 psi	1LNT8	—	1LNT1	—	1LNU6	1LNK7	1LNV4	1LNW2
5/16 in	½-20	6000 psi	1LNT9	—	1LNT2	—	1LNU7	1LNK8	1LNV5	1LNW3
⅜ in	9/16-18	6000 psi	1LNU1	—	1LNT3	—	1LNU8	1LNK9	1LNV6	1LNW4
½ in	¾-16	6000 psi	1LNU2	—	1LNT4	—	1LNU9	1LNL1	1LNV7	1LNW5
⅝ in	⅞-14	5000 psi	1LNU3	—	1LNT5	—	1LNV1	1LNL2	1LNV8	1LNW6
¾ in	1 1/16-12	4800 psi	1LNU4	—	1LNT6	—	1LNV2	1LNL3	1LNV9	1LNW7
1 in	1 5/16-12	3000 psi	1LNU5	—	—	—	—	—	—	—
1 in	1 5/16-12	3500 psi	—	1LNH3	1LNT7	1LNH4	1LNV3	1LNL4	1LNW1	1LNW8

Thread Size	Hose Fitting A Size	Hose Fitting B Size	Max. Working Pressure @ 70°F	90° Elbow Item No.	Straight Item No.
Approved Vendor					
⅛"-27	⅛"	¼"	4,000 psi	4HM24	—
⅛"-27	⅛"	¼"	4,500 psi	—	4HM23
¼"-18	¼"	¼"	4,500 psi	4HM22	4HM21
¼"-18	¼"	5/16"	4,000 psi	4HM26	4HM25
¼"-18	¼"	⅜"	4,000 psi	4HM30	4HM29
⅜"-18	⅜"	⅜"	4,000 psi	4HM28	4HM27
⅜"-18	⅜"	½"	4,000 psi	4HM34	4HM33
½"-14	½"	½"	4,000 psi	4HM32	4HM31
½"-14	½"	⅝"	3,000 psi	4HM18	4HM17
¾"-14	¾"	¾"	3,000 psi	4HM20	4HM19

Poly-Tite Brass Compression Fittings

- Max. pressure: 150 psi
- Temp. range: 0° to 150°F
- Pkg. qty.: 10

Preassembled body, nut, and sleeve allow fast, convenient installation. An exclusive sleeve grips plastic tubing up to 150 psi. Nuts rotate around tubing as it tightens. Acetal copolymer sleeve with brass nut (1VPA8 to 1VPB2) resists creeping and compression stress. For use with thermoplastic tubing in pneumatic and liquid applications.

Tube Size	Pipe Size - Pipe Fitting	Male Elbow, 90° Item No.	Female Connector Item No.	Male Connector Item No.	Male Run Tee Item No.	Male Branch Tee Item No.
¼ in	⅛ in	1VPF1	1VPC9	1VPD8	1VPG4	1VPG9
¼ in	¼ in	1VPF2	1VPD1	1VPD9	1VPG5	—
¼ in	¼ in	—	—	—	—	1VPH1
5/16 in	⅛ in	1VPF3	1VPD2	1VPE1	—	1VPH2
5/16 in	¼ in	—	—	1VPE2	—	—
⅜ in	⅛ in	1VPF4	—	1VPE3	—	5UNN1
⅜ in	¼ in	1VPF5	1VPD3	1VPE4	1VPG6	—
⅜ in	¼ in	—	—	—	—	1VPH3
⅜ in	⅜ in	1VPF6	—	1VPE5	—	—
½ in	⅜ in	1VPF7	1VPD4	1VPE6	—	1VPH4

Tube Size	Acetal Sleeve Item No.	Nut and Acetal Sleeve Item No.	Nut and Brass Sleeve Item No.	Sleeve Item No.	Union Item No.	Union Tee Item No.
¼ in	1VNZ5	1VPA8	1VPB3	1VPA2	1VPB9	1VPF9
5/16 in	1VNZ6	1VPA9	1VPB4	1VPA3	1VPC1	1VPG1
⅜ in	1VNZ7	1VPB1	1VPB5	1VPA4	1VPC2	1VPG2
½ in	1VNZ8	1VPB2	1VPB6	1VPA5	1VPC3	1VPG3

Tube Size (Tube OD x Wall Thickness)	Insert Item No.
⅛ in x 1/64 in	1VPC4
3/16 in x 1/64 in	1VPC6
3/16 in	1VPC7

Brass Compression and Lead-Free Brass Fittings

Parker

- Temp. range: Parker items are -65° to 200°F; Approved Vendor items are -65° to 250°F
- Pkg. qty.: 10, except Low-Lead items are pkg. of 1

Eliminate the need to flare, solder, or otherwise prepare tubing before assembly. Use with annealed copper, aluminum, and thermoplastic tubing where excessive vibration or tube movement is not involved. UL Listed for flammable liquids. Meet SAE J-512 functional requirements, except 20XM26 to 20XM99 and 20XN01 to 20XN22 meet NSF 61 Annex G. Lead-free items are certified for use in potable water applications.

Tube Size	Max. psi	Tube Wall (in.)	Tube Size	Max. psi	Tube Wall (in.)
⅛"	400	0.030	½"	200	0.032
3/16"	400	0.030	⅝"	150	0.035
¼"	300	0.030	¾"	100	0.035
5/16"	300	0.032	⅞"	75	0.035
⅜"	200	0.032			

Tube Size	Pipe Size - Pipe Fitting	Extended Male Elbow, 90° Item No.	Female Connector Item No.	Female Elbow, 90° Item No.	Male Branch Tee Item No.	Male Connector Item No.	Male Elbow, 90° Item No.	Male Elbow, 45°, Compression Item No.
PARKER								
⅛ in	⅛ in	2P248	1VDC8	1VDJ2	1VDK1	2P236	—	—
3/16 in	⅛ in	1VDH7	1VDC9	1VDJ3	1VDK2	1VDE1	1VDG4	—
	¼ in	—	5UNJ5	—	—	1VDE2	1VDG5	—
¼ in	⅛ in	2P249	2P229	2P245	1VDK3	2P237	1VDG6	1VDK9
	¼ in	2P250	2P230	2P246	1VDK4	2P238	1VDG7	1VDL1
	⅜ in	—	—	—	—	1VDE3	1VDG8	—
	½ in	—	—	—	—	1VDE4	—	—
5/16 in	⅛ in	1VDH8	1VDD1	—	—	1VDE5	1VDG9	—
	¼ in	1VDH9	1VDD2	—	—	1VDE6	1VDH1	—
	⅜ in	—	—	—	—	—	1VDH2	—
⅜ in	⅛ in	1VDJ1	1VDD3	—	1VDK5	1VDE7	1VDH3	—
	¼ in	2P251	2P231	1VDJ4	1VDK6	2P239	1VDH4	1VDL2
	⅜ in	2P252	2P232	2P247	1VDK7	2P240	1VDH5	1VDL3
	½ in	—	1VDD4	—	—	2P241	2P253	—
½ in	¼ in	—	1VDD5	—	—	1VDE8	1VDH6	—
	⅜ in	—	2P233	1VDJ6	1VDK8	2P242	2P254	1VDL4
	½ in	—	2P234	5UNJ7	—	2P243	2P255	—
⅝ in	⅜ in	—	—	—	—	1VDD7	1VDG1	—
	½ in	—	2P235	—	—	2P244	2P256	—
	¾ in	—	—	—	—	1VDD6	—	—
¾ in	½ in	—	—	—	—	1VDD9	1VDG3	—
	¾ in	—	—	—	—	1VDD8	1VDG2	—

Tube Size	90° Union Elbow Item No.	Acetal Copolymer Sleeve Item No.	Brass Sleeve Item No.	Long Nut Item No.	Nut Item No.	Union Item No.	Union Tee (run x run x outlet) Item No.	Insert Item No.
PARKER								
⅛ in	1VDF6	—	1VCZ2	—	1VDA2	1VDB1	1VDE9	—
3/16 in	1VDF7	—	1VCZ3	—	1VDA3	1VDB2	1VDF2	—
¼ in	2P226	1VCZ6	2P211	1VDA6	2P215	2P218	2P222	—
5/16 in	1VDF8	1VCZ7	1VCZ4	—	1VDA4	1VDB3	1VDF1	1VDC6
⅜ in	2P227	1VCZ8	2P212	1VDA7	2P216	2P219	2P223	2P208
⅜ in x ⅝ in	—	—	—	—	—	5UNK1	—	—
⅜ in x ¼ in x ¼ in	—	—	—	—	—	—	5UNK0	—
½ in	2P228	1VCZ9	2P213	1VDA8	2P217	2P220	2P224	2P209
⅝ in	1VDF5	1VCZ5	2P214	—	2P261	2P221	2P225	2P210
¾ in	5UNJ8	—	1VCZ1	—	1VDA1	1VDA9	—	—

Tube Size	Tube Support Item No.
Lead-Free, PARKER	
⅛ in	19H207
⅛ in	19H206
¼ in	5KNG7
5/16 in	19H209
⅜ in	5KNG8
½ in	5KNG9

Tube Size	Female Elbow, 90 Degrees Item No.	Insert Item No.	Union Tee Item No.	Union Item No.	Sleeve Item No.	Sweat Adapter Item No.	Female Elbow, 90° Item No.	Cap Item No.
Lead-Free, Approved Vendor								
⅛ in	—	46M543	—	46M568	46M581	—	—	—
3/16 in	—	—	—	46M567	46M580	—	—	—
¼ in	46M559	46M541	46M561	46M566	46M579	—	—	20XM91
5/16 in	—	46M540	—	46M565	46M578	—	—	20XM92
⅜ in	46M558	46M539	46M560	46M564	46M577	—	—	20XM93
7/16 in	—	—	—	—	20XM26	—	—	—
½ in	—	46M538	—	46M563	46M576	—	—	20XM94
⅝ in	—	—	—	46M562	46M575	—	—	20XM95
⅝ in x ⅜ in	—	—	—	—	—	20XN08	—	—
⅞ in	—	—	—	20XM30	20XM27	—	20XM32	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Female Connector Item No.
Lead-Free, Approved Vendor			
5/16 in	⅛ in	46M555	—
5/16 in	¼ in	46M554	—
⅜ in	⅛ in	46M553	—
⅜ in	¼ in	46M552	46M557
⅜ in	⅜ in	46M551	46M556
⅜ in	½ in	46M550	—
½ in	⅜ in	46M549	—
½ in	½ in	46M548	—
⅝ in	½ in	46M547	—
⅞ in	¾ in	20XN29	—

Tube Size	Pipe Size - Pipe Fitting	Male Coupling Item No.	Female Coupling Item No.
Lead-Free, Approved Vendor			
⅛ in	⅛ in	20XM46	20XM33
3/16 in	⅛ in	20XM47	20XM34
3/16 in	¼ in	20XM48	—
¼ in	⅛ in	20XM49	20XM35
¼ in	¼ in	20XM50	20XM36
¼ in	⅜ in	20XM51	20XM37
¼ in	½ in	20XM52	20XM38
5/16 in	⅜ in	20XM53	—
5/16 in	½ in	20XM54	—
⅜ in	¾ in	20XM55	20XN25
7/16 in	¼ in	20XM56	—
7/16 in	⅜ in	20XM57	—
½ in	¾ in	20XM58	20XM39
⅝ in	⅜ in	—	20XM40
⅝ in	⅜ in	—	20XN26 *
⅝ in	¾ in	—	20XM41
⅝ in	¾ in	—	20XN27 *
¾ in	½ in	—	20XM42
¾ in	¾ in	—	20XM43
⅞ in	½ in	20XM59	20XM44
⅞ in	¾ in	20XM60	20XM45

** FNPT x Flare connection.*

Tube Size	Reducer Item No.	Reducing Elbow Item No.
Lead-Free, Approved Vendor		
¼ in	20XM96	—
5/16 in	20XM97	—
⅜ in x ¼ in	20XM98	—
⅜ in x ⅝ in	—	20XN06
⅜ in x 5/16 in	20XM99	—
½ in x ⅝ in	20XN02	20XN07
½ in	20XN01	—

Tube Size	Pipe Size - Pipe Fitting	90° Male Elbow Item No.	90° Female Elbow Item No.
Lead-Free, Approved Vendor			
⅛ in	⅛ in	20XM62	20XM72
3/16 in	⅛ in	20XM63	20XM73
3/16 in	¼ in	20XM64	—
¼ in	⅛ in	20XM65	—
¼ in	¼ in	20XM66	20XM75
¼ in	⅜ in	20XM67	—
¼ in	½ in	20XM68	20XM74
⅜ in	⅛ in	—	20XM76
⅜ in	¼ in	46M546	—
⅜ in	⅜ in	46M545	—
⅜ in	½ in	—	20XM77
½ in	⅜ in	46M544	—
½ in	¾ in	20XM69	—
⅝ in	½ in	—	20XM78

Tube Size	Nut Item No.
Lead-Free, Approved Vendor	
⅛ in	20XN09
3/16 in	20XN10
¼ in	20XN11
¼ in	46M572
¼ in x ⅜ in	20XN20
5/16 in	20XN12
⅜ in	20XN13
⅜ in x ½ in	20XN21
⅜ in	46M570
7/16 in	20XM28
½ in	20XN14
½ in x ⅝ in	20XN22
⅝ in	20XN15
¾ in	20XN16
⅞ in	20XN17

Tube Size	Compression Thread Size	Branch Tee (run x run x outlet) Item No.
Lead-Free, Approved Vendor		
¼ in	5/16-24 x 7/16-24	20XM83
¼ in	7/16-24	20XM84
5/16 in	5/16-24 x ½-24	20XM85
5/16 in	7/16-24 x ½-24	20XM86
½ in	11/16-20	20XM87
⅝ in	11/16-20 x 13/16-18	20XM88

Parker

Compress-Align Brass and Lead-Free Brass Fittings

- Temp. range: -65° to 200°F

These heavy-duty fittings align to seal even out-of-round tubing, so tubing does not require flaring, solder, or other preparation. Preassembled brass fittings have captive sleeves. Bodies are interchangeable with standard compression fitting bodies. For low- and medium-pressure tubing connections to copper, brass, aluminum, and thermoplastic tubing. Lead-free items are certified for use in potable water applications.

Tube Size	Pipe Size - Pipe Fitting	90° Extruded Male Elbow Item No.	Pkg. Qty.	90° Forged Male Elbow Item No.	Pkg. Qty.	90° Female Elbow Item No.	Pkg. Qty.	Female Connector Item No.	Pkg. Qty.	Male Connector Item No.	Pkg. Qty.
⅛ in	⅛ in	6LG48	25	—	—	1VDN3	10	6LH58	10	6LJ01	25
3/16 in	⅛ in	6LG49	25	6LG01	10	—	—	6LH59	25	6LJ02	50
	¼ in	—	—	6LG02	10	—	—	—	—	6LJ03	25
¼ in	⅛ in	6LG50	50	6LG03	50	6LG18	25	6LH61	25	6LJ04	100
	¼ in	6LG51	50	6LG04	50	6LG19	25	6LH62	10	6LJ05	100
	⅜ in	—	—	6LG05	10	—	—	—	—	6LJ06	10
	½ in	—	—	—	—	—	—	—	—	6LJ07	10
5/16 in	⅛ in	—	—	6LG06	10	—	—	—	—	6LJ08	25
	¼ in	6LG53	10	6LG07	25	—	—	6LH64	10	6LJ09	25
⅜ in	⅛ in	6LG54	10	6LG09	10	—	—	—	—	6LJ10	25
	¼ in	6LG55	25	6LG10	25	6LG20	10	6LH66	10	6LJ11	100
	⅜ in	6LG56	25	6LG11	25	6LG21	10	6LH67	10	6LJ12	25
	½ in	—	—	6LG12	10	—	—	6LH68	10	6LJ13	25
½ in	¼ in	—	—	6LG13	10	—	—	—	—	6LJ14	10
	⅜ in	—	—	6LG14	10	6LG22	10	—	—	6LJ15	25
	½ in	—	—	6LG15	10	5UNK4	5	6LH71	10	6LJ16	25
¾ in	¾ in	—	—	6LF97	5	—	—	—	—	6LH95	10
1 in	¾ in	—	—	—	—	—	—	—	—	6LH98	5

Tube Size	Max. psi	Tube Wall (in.)	Tube Size	Max. psi	Tube Wall (in.)
⅛"	2800	0.030	½"	750	0.032
3/16"	1900	0.030	5/8"	650	0.035
¼"	1400	0.030	¾"	550	0.035
5/16"	1200	0.032	7/8"	450	0.035
⅜"	1000	0.032	1"	350	0.035

Tube Size	Pipe Size - Pipe Fitting	45° Male Elbow Item No.	Pkg. Qty.	Male Branch Tee Item No.	Pkg. Qty.	Male Run Tee Item No.	Pkg. Qty.
⅛ in	⅛ in	—	—	1VDN9	10	1VDN5	10
	3/16 in	—	—	—	—	6LG24	10
¼ in	⅛ in	1VDP4	10	6LG31	10	6LG25	10
	¼ in	1VDP6	10	6LG32	10	6LG26	10
⅜ in	¼ in	1VDP8	10	6LG34	10	1VDN7	10
	⅜ in	—	—	6LG35	10	—	—

Tube Size	90° Union Elbow Item No.	Pkg. Qty.	Forged Union Tee Item No.	Pkg. Qty.	Tube Nut Item No.	Pkg. Qty.	Union Item No.	Pkg. Qty.
⅛ in	1VDL7	10	6LF77	10	6LH14	100	6LH24	25
3/16 in	1VDL8	10	—	—	6LH15	100	6LH25	25
¼ in	6LF90	10	6LF78	25	6LH16	100	6LH26	50
5/16 in	5UNK8	10	—	—	6LH17	50	6LH28	50
⅜ in	6LF92	10	6LF80	25	6LH18	100	6LH29	50
½ in	6LF93	10	6LF83	10	6LH19	50	6LH31	25
¾ in	6LF86	5	5UNK9	6	—	—	6LH22	10

Tube Size	Union Reducer Item No.	Pkg. Qty.	Unequal Union Tee (run x run x outlet) Item No.	Pkg. Qty.
¼ in x 3/16 in	6LH27	10	—	—
⅜ in x ¼ in	6LH30	10	—	—
⅜ in x ¼ in x ¼ in	—	—	5UNK6	10
½ in x ⅜ in	6LH32	10	—	—
½ in x ½ in x ⅜ in	—	—	5UNK7	10
5/8 in x ⅜ in	6LH21	10	—	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Pkg. Qty.	Male Elbow, 90° Item No.	Pkg. Qty.
Lead-Free					
¼ in	¼ in	5KNF3	1	—	—
⅜ in	¼ in	5KNF4	1	5KNF2	1
⅜ in	⅜ in	—	—	19H203	1

Parker

Pargrip PFA Compression Fittings

- Temp. range: 0° to 266°F

Virgin fluoropolymer materials provide highest purity and highest temperature capability of any thermoplastic material. Suitable for high-purity lab and semiconductor applications, especially with aggressive liquids and in highly corrosive environments. Can be easily assembled without hand tools or the need to heat and flare tubing. FDA Approved materials.

Tube Size	Reducing Elbow, 90° Item No.	Straight Reducer Item No.
¼ in x ⅛ in	2CGE5	2CGD9
⅜ in x ¼ in	2CGE6	2CGE1
½ in x ¼ in	2CGE7	2CGE2
½ in x ⅜ in	—	2CGE3
¾ in x ½ in	—	2CGE4

Tube Size	Tee Connector Item No.
⅛ in	2CGD5
¼ in	2CGD6
⅜ in	2CGD7
½ in	2CGD8

Tube Size	Straight Connector Item No.	Cap Item No.	Union Elbow Item No.
¼ in	2CGD1	2CGF6	—
⅜ in	2CGD2	—	2CGC6
½ in	2CGD3	2CGF8	2CGC7
¾ in	2CGC8	—	2CGC3

Tube Size	Pipe Size - Pipe Fitting	Elbow, 90° Item No.	Female Straight Adapter Item No.	Male Straight Adapter Item No.
⅛ in	¼ in	2CFX1	2CFV6	2CFY5
¼ in	⅛ in	2CFX2	—	2CFY6
	¼ in	2CFX3	2CFV8	2CFY7
	⅜ in	2CFX4	2CFV9	2CFY8
	½ in	2CFX5	2CFW1	2CFY9
⅜ in	¼ in	2CFX6	2CFW2	2CFZ1
	⅜ in	2CFX7	2CFW3	2CFZ2
	½ in	2CFX8	2CFW4	2CFZ3
½ in	¼ in	2CFX9	—	2CFZ4
	⅜ in	2CFY1	—	2CFZ5
	½ in	2CFY2	2CFW7	2CFZ6
¾ in	¾ in	2CFW8	—	2CFY3
⅛ in	⅛ in	—	2CFV5	2CFY4

Tube Size	Ferrule Item No.	Gripper Item No.	Nut Item No.	Nut Assembly Item No.
⅛ in	2CGH7	2CGH2	—	2CGG6
¼ in	2CGH8	2CGH3	2CGG2	2CGG7
⅜ in	2CGH9	2CGH4	2CGG3	2CGG8
½ in	2CGJ1	2CGH5	—	2CGG9
¾ in	2CGJ2	2CGH6	—	—

CPI vs. A-Lok

CPI: Single-ferrule design creates a dynamic seal on tube and body, with close tolerance of nut and body dimensions for accurate tube alignment.

A-Lok: Have a double-ferrule design that allows the front ferrule to create a pressure seal on tube and body.

316 Stainless Steel Instrumentation Tube Fittings

Parker

- Temp. range: -425° to 1200°F

Provide leaktight seals in gas or liquid service. Have a 4:1 safety factor with respect to working pressure capabilities of the tubing used. Compression design allows for easy assembly. Use with 304, 316, or 316L stainless steel tubing. For use in refineries, chemical processing, power generation, and instrument lines.

Pipe Size (in.)	Pipe Pressure Ratings Stainless Steel: Male Straight	Male Shape	Female Straight	Female Shape
⅛	9100	9100	6400	5500
¼	7500	7500	6600	5600
⅜	7200	7200	5300	5000
½	6600	5800	5200	4500
¾	6400	6400	4300	3500
1	4600	4600	4500	3900

Tube Size	Pipe Size - Pipe Fitting	A-LOK Male Connector Item No.	CPI Male Connector Item No.	A-LOK Male Elbow, 90° Item No.	CPI Male Elbow, 90° Item No.	A-LOK Female Connector Item No.	CPI Female Connector Item No.	CPI Thermocouple Connector Item No.
Tube x Thread								
⅛ in	⅛ in	—	—	5UNC4	5UNF0	—	—	4CXC9
	¼ in	—	—	—	—	—	—	4CXD1
¼ in	⅛ in	1PZC8	1PZH4	1PZD9	1PZJ4	—	—	—
	¼ in	1PZC9	1PZH5	1PZE1	1PZJ5	1PZE5	1PZJ9	4CXD2
	⅜ in	1PZD1	1PZH6	—	—	—	—	4CXD3
	½ in	1PZD2	1PZH7	—	—	—	—	4CXD4
⅜ in	⅛ in	—	—	2KKX8	5UNF1	—	—	—
	¼ in	1PZD3	1PZH8	1PZE2	1PZJ6	1PZE6	1PZK1	4CXD5
	⅜ in	1PZD4	1PZH9	1PZE3	1PZJ7	—	—	4CXD6
	½ in	1PZD5	1PZJ1	2KKX9	—	—	—	4CXD7
½ in	¼ in	1PZD6	1PZJ2	2KKY1	4CWU7	—	4CWU8	—
	⅜ in	1PZD7	1RAC4	2KKY2	—	—	—	—
	½ in	1PZD8	1PZJ3	1PZE4	1PZJ8	1PZE7	1PZK2	4CXD8
	¾ in	2KKX5	—	—	—	—	—	4CXD9
⅝ in	½ in	2KKX1	4CWY4	—	—	4EUK7	—	—
¾ in	½ in	2KKX3	—	—	—	—	—	—
	¾ in	2KKX2	4CWZ7	2KKX6	4CWZ5	4CXP9	4CWZ8	—
1 in	1 in	2KKX4	4CXC2	2KKX7	4CXA9	4CXR7	—	—

Tube Size	Pipe Size - Pipe Fitting	A-LOK Tube End Male Adapter Item No.	CPI Tube End Male Adapter Item No.	A-LOK Tube End Female Adapter Item No.	CPI Tube End Female Adapter Item No.	A-LOK Female Branch Tee Item No.	CPI Female Branch Tee Item No.	A-LOK Male Branch Tee Item No.	CPI Male Branch Tee Item No.
Tube x Thread (Cont.)									
⅛ in	⅛ in	5UND3	5UNF9	—	—	5UNA6	—	5UNC1	5UNE7
	¼ in	5UND4	5UNG0	5UND1	—	—	—	5UNC2	—
¼ in	⅛ in	5UND5	5UNG1	5UND2	5UNF8	—	—	5UNC3	5UNE9
	¼ in	4CXL4	4CWT3	4CXL5	4CWT4	4CXT8	4CWT6	5XPD2	5XNZ3
⅜ in	¼ in	—	—	—	—	—	4CWT7	—	5XNZ4
	¼ in	—	—	—	—	—	—	—	2KKW9
	⅜ in	4CXL7	4CWU3	4CXL8	4CWU4	4CXT9	—	5XPD4	5XNZ5
½ in	⅜ in	—	—	—	—	—	2KKW8	5XPD5	—
	½ in	4CXN1	—	4CXN2	—	4CXU1	—	5XPD6	5XNZ7
	¾ in	—	—	—	—	—	4CWX7	—	—
⅝ in	½ in	—	—	—	—	4CXU2	—	—	—
¾ in	¾ in	4CXT6	—	4CXT7	—	4CXU3	—	5XPD8	—

Tube Size	Pipe Size - Pipe Fitting	A-LOK Female Elbow, 90° Item No.	CPI Female Elbow, 90° Item No.	A-LOK Male Run Tee Item No.	CPI Male Run Tee Item No.
Tube x Thread (Cont.)					
⅛ in	⅛ in	—	—	5UNC6	5UNF2
	¼ in	5UNA8	—	—	—
¼ in	⅛ in	5UNA9	—	5UNC7	5UNF3
	¼ in	—	—	—	5XPA1
	⅜ in	5XPE5	—	—	—
	½ in	5XPE6	5XPA7	—	—
⅜ in	¼ in	5XPE9	5XPC0	5XPE1	5XPA2
	⅜ in	5XPF0	5XPC1	5XPE2	5XPA3
	½ in	5XPF1	5XPC2	—	—
½ in	¼ in	5XPF2	5XPC3	—	—
	⅜ in	5XPF3	—	—	—
	½ in	5XPF4	5XPC5	5XPE3	5XPA4
⅝ in	½ in	5XPF6	—	—	—
¾ in	½ in	5XPF7	—	—	—

Tube Size	A-LOK 90° Union Elbow Item No.	CPI 90° Union Elbow Item No.	A-LOK Union Item No.
Tube x Tube			
⅛ in	5UND8	5UNG4	5UND7
¼ in	1PZF5	1PZK9	1PZE8
⅜ in	1PZF6	1PZL1	1PZE9
½ in	1PZF7	1PZL2	1PZF1
⅝ in	2KKZ5	4CWY3	4CXP2
¾ in	2KKZ6	4CWZ6	2KKZ3
1 in	2KKZ7	—	2KKZ4

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CONTINUED

Find more information for comparing CPI and A-Lok Fittings on page 2857.

316 Stainless Steel Instrumentation Tube Fittings

Parker

Tube Size	CPI Union Item No.	A-LOK Union Tee Item No.	CPI Union Tee Item No.	A-LOK Tube Nut Item No.	CPI Tube Nut Item No.
Tube x Tube (Cont.)					
⅛ in	5UNG3	5UND9	—	5UND6	5UNG2
¼ in	1PZK3	1PZF8	1PZL3	1WVJ7	1WVK1
⅜ in	1PZK4	1PZF9	1PZL4	1WVJ8	1WVK2
½ in	1PZK5	1PZG1	1PZL5	1WVJ9	1WVK3
⅝ in	4CWY6	4CXP1	—	4CXN5	4CWX9
¾ in	4CWZ9	2KKZ1	4CXA1	4CXP4	4CWZ3
1 in	—	2KKZ2	—	4CXR2	—

Tube Size	A-LOK Tube End Reducer Item No.	CPI Tube End Reducer Item No.	A-LOK Reducing Union Item No.	CPI Reducing Union Item No.
Tube x Tube (Cont.)				
1/16 in x ⅛ in	4CXU5	—	—	—
⅛ in x ¼ in	—	4CWT5	—	—
¼ in x ⅛ in	4CXU7	—	5UNC9	4CWT2
¼ in	4CXL6	—	—	—
¼ in x 5/16 in	4CXU9	—	—	—
¼ in x ⅜ in	4CXL9	4CWU5	—	—
¼ in x ½ in	4CXV2	—	—	—
⅜ in x ½ in	—	4CWX5	—	—
⅜ in x ¼ in	—	—	2KKY7	4CWU1
½ in x ⅜ in	4CXV1	—	2KKY9	4CWX1
½ in x ¾ in	4CXV3	—	—	—
½ in x ¼ in	—	—	2KKY8	4CWU9
¾ in x ½ in	—	—	2KKY6	—
1 in x ½ in	—	—	4CXR8	—

Tube Size	A-LOK Bulkhead Union Item No.	CPI Bulkhead Union Item No.	A-LOK Cap Item No.	CPI Cap Item No.	A-LOK Front Ferrule Item No.	A-LOK Plug Item No.	CPI Plug Item No.
Tube x Tube (Cont.)							
⅛ in	5UNA4	—	5UNA5	—	5UNC0	5UNC8	5UNF4
¼ in	1PZF2	1PZK6	1PZG2	1PZL6	1PZG7	1PZG5	1PZL9
⅜ in	1PZF3	1PZK7	1PZG3	1PZL7	1PZG8	1PZG6	1PZN1
½ in	1PZF4	1PZK8	1PZG4	1PZL8	1PZG9	—	1PZN2
½ in	—	—	—	—	—	—	1RAC6
⅝ in	—	—	4CXN9	—	4CXN7	4CXN8	—
¾ in	4CXP3	—	4CXP8	—	4CXP6	4CXP7	4CXA3
1 in	—	—	4CXR6	—	4CXR4	—	—

Tube Size	A-LOK Back Ferrule Item No.	CPI Ferrule Item No.	A-LOK Union Cross Item No.
Tube x Tube (Cont.)			
⅛ in	5UNA3	5UNE6	4CXR9
¼ in	1PZH1	1PZN3	4CXT1
⅜ in	1PZH2	1PZN4	4CXT2
½ in	1PZH3	1PZN5	4CXT3
⅝ in	4CXN6	4CWY1	—
¾ in	4CXP5	4CWZ4	—
1 in	4CXR3	—	—

Tube Size	Pipe Size - Pipe Fitting	Hex Size	A-LOK Male Connector Item No.
Tube x BSPP			
¼ in	⅛ in	9/16 in	4CXV4
	¼ in	¾ in	4CXV5
	½ in	1 1/16 in	4CXV6
⅜ in	⅜ in	¾ in	4CXV7
	⅜ in	1 1/16 in	4CXV8
½ in	½ in	1 1/16 in	4CXV9

316 Stainless Steel Metric Instrumentation Tube Fittings

HAM-LET ADVANCED CONTROL TECHNOLOGY

- Temp. range: -425° to 1200°F

LET-LOK premium fittings are suitable for use in high-pressure applications in heavy industrial environments, such as petrochemical, fluid power, nuclear, and electronic. Meet SAE, ASME, MIL-F-18866, and CE Certified.

Tube Size	90° Union Elbow Item No.	Bulkhead Union Item No.	Cap Item No.	Union Item No.	Union Tee Item No.
Compression					
6mm	—	—	4CMW3	—	—
8mm	—	—	4CMW4	—	—
10mm	—	—	4CMW5	—	—
12mm	—	—	4CMW6	—	—
LET-LOK					
4mm	4CMV4	—	—	4CMU2	4CMR1
6mm	4CMV5	4CMV9	—	4CMU3	4CMR2
8mm	4CMV6	4CMW1	—	4CMU4	4CMR3
10mm	4CMV7	4CMW2	—	4CMU5	4CMR4
12mm	4CMV8	—	—	4CMU6	4CMR5

Tube Size	Reducing Union Item No.
LET-LOK	
4mm x ¼ in	4CMU7
6mm x ¼ in	4CMU8
8mm x ¼ in	4CMU9
8mm x ⅜ in	4CMV1
12mm x ⅜ in	4CMV3

Tube Size	Front Ferrule Item No.	Back Ferrule Item No.	Nut Item No.	Plug Item No.
Compression				
4mm	—	—	—	4CMW7
6mm	—	—	4CMX3	4CMW8
8mm	—	—	4CMX4	4CMW9
10mm	—	—	4CMX5	4CMX1
12mm	—	—	4CMX6	4CMX2
LET-LOK				
4mm	4CMX7	4CMY3	—	—
6mm	4CMX8	4CMY4	—	—
8mm	4CMX9	4CMY5	—	—
10mm	4CMY1	4CMY6	—	—
12mm	4CMY2	4CMY7	—	—

Tube Size	Pipe Size - Pipe Fitting	Female Connector Item No.	Female Elbow, 90° Item No.
LET-LOK x FNPT			
6mm	¼ in	4CMR6	4CMT6
	½ in	4CMR7	—
8mm	¼ in	4CMR8	4CMT7
10mm	¼ in	4CMR9	—
	⅜ in	4CMT1	—
	½ in	4CMT2	—
12mm	¼ in	4CMT3	4CMT9
	⅜ in	4CMT4	—
	½ in	4CMT5	—

Tube Size	Pipe Size - Pipe Fitting	Male Connector Item No.	Male Elbow, 90° Item No.
LET-LOK x MNPT			
4mm	⅛ in	4CML2	4CMN8
	¼ in	4CML3	—
6mm	⅛ in	4CML4	—
	¼ in	4CML5	4CMP1
	⅜ in	4CML6	4CMP2
	½ in	4CML7	—
8mm	¼ in	4CML8	4CMP3
	⅜ in	4CML9	—
	½ in	4CMN1	4CMP4
10mm	¼ in	4CMN2	4CMP5
	⅜ in	4CMN3	—
	½ in	4CMN4	4CMP6
12mm	¼ in	4CMN5	4CMP7
	⅜ in	4CMN6	4CMP8
	½ in	4CMN7	4CMP9

LET-LOK Compression Tube Fittings

HAM-LET ADVANCED CONTROL TECHNOLOGY

- Temp. range: -425° to 1200°F
- Pkg. qty.: 1, except 31LC03 to 31LC07 are 10 per pkg.

Feature LET-LOK fittings that both seal and grip the tubing for a leak-tight assembly. Fittings are 316 stainless steel construction for corrosion resistance. Suitable for food processing, petrochemical, and pharmaceutical applications. Meet ASME, ASTMA, MIL-F-18866, SAE, and CE Certified.

Tube Size	Front and Back Ferrule Max. Pressure	Front and Back Ferrule Item No.	Nut Max. Pressure	Nut Item No.	Straight Union Max. Pressure	Straight Union Item No.	Union Tee Max. Pressure	Union Tee Item No.	Union Elbow Max. Pressure	Union Elbow Item No.
⅛ in	2450 to 5850 psi	**31LC06**	8550 to 10,950 psi	**31LC10**	—	—	—	—	—	—
¼ in	8550 to 10,950 psi	**31LC05**	4100 to 10,300 psi	**31LC09**	4100 to 10,300 psi	**31LC14**	4100 to 10,300 psi	**31LC22**	4100 to 10,300 psi	**31LC25**
⅜ in	3350 to 6550 psi	**31LC07**	3350 to 6550 psi	**31LC12**	3350 to 6550 psi	**31LC16**	3350 to 6550 psi	**31LC23**	3350 to 6550 psi	**31LC27**
½ in	2650 to 6750 psi	**31LC03**	2650 to 6750 psi	**31LC08**	2650 to 6750 psi	**31LC13**	2650 to 6750 psi	**31LC21**	2650 to 6750 psi	**31LC24**
¾ in	4100 to 10,300 psi	**31LC04**	2450 to 5850 psi	**31LC11**	2450 to 5850 psi	**31LC15**	—	—	2450 to 5850 psi	**31LC26**

Tube Size	Pipe Size - Pipe Fitting	Max. Pressure	Female Run Tee Item No.	Female Branch Tee Item No.
¼ in	⅛ in	4100 to 10,300 psi	**31LC57**	**31LC63**
	¼ in		**31LC56**	**31LC62**
⅜ in	¼ in	3350 to 6550 psi	**31LC58**	**31LC64**
	⅜ in		**31LC59**	**31LC65**
½ in	¼ in	2650 to 6750 psi	**31LC55**	**31LC61**
	½ in		**31LC54**	**31LC60**

Reducing Union Tube Size	Reducing Union Max. Pressure	Reducing Union Item No.	Bulkhead Union Tube Size	Bulkhead Union Max. Pressure	Bulkhead Union Item No.
¼ in x ⅛ in	4100 to 10,300 psi	**31LC18**	¼ in	4100 to 10,300 psi	**31LC67**
⅜ in x ¼ in	3350 to 6550 psi	**31LC20**	⅜ in	3350 to 6550 psi	**31LC68**
½ in x ⅜ in	2650 to 6750 psi	**31LC17**	½ in	2650 to 6750 psi	**31LC66**
¾ in x ½ in	2450 to 5850 psi	**31LC19**	—	—	—

Tube Size	Pipe Size - Pipe Fitting	Female Connector Max. Pressure	Female Connector Item No.	Male Connector Max. Pressure	Male Connector Item No.	Male Connector Elbow Max. Pressure	Male Connector Elbow Item No.
¼ in	⅛ in	—	—	4100 to 10,300 psi	**31LC37**	4100 to 10,300 psi	**31LC49**
	¼ in	4100 to 10,300 psi	**31LC29**	4100 to 10,300 psi	**31LC36**	4100 to 10,300 psi	**31LC48**
	⅜ in	—	—	4100 to 10,300 psi	**31LC38**	—	—
	½ in		—	4100 to 10,300 psi	**31LC35**	—	—
⅜ in	⅛ in		—	—	—	3350 to 6550 psi	**31LC52**
	¼ in	3350 to 6550 psi	**31LC30**	3350 to 6550 psi	**31LC42**	3350 to 6550 psi	**31LC51**
	⅜ in	—	—	3350 to 6550 psi	**31LC43**	3350 to 6550 psi	**31LC53**
	½ in		—	3350 to 6550 psi	**31LC41**	3350 to 6550 psi	**31LC50**
½ in	¼ in		—	2650 to 6750 psi	**31LC32**	2650 to 6750 psi	**31LC46**
	⅜ in		—	2650 to 6750 psi	**31LC34**	2650 to 6750 psi	**31LC47**
	½ in	2650 to 6750 psi	**31LC28**	2650 to 6750 psi	**31LC31**	2650 to 6750 psi	**31LC45**
	¾ in	—	—	2650 to 6750 psi	**31LC33**	—	—
⅝ in	½ in		—	2950 to 6050 psi	**31LC44**	—	—
¾ in	½ in		—	2450 to 5850 psi	**31LC39**	—	—
	¾ in		—	2450 to 5850 psi	**31LC40**	—	—

Parker

Brass Instrumentation Tube Fittings

- Temp. range: -40° to 400°F

Provide leaktight seals in gas or liquid service. Designed with 4:1 safety factor with respect to working pressure capabilities of the tubing used. Compression design allows easy assembly. For an explanation of the differences between CPI and A-Lok fittings, see page 2857. For use in refineries, chemical processing, power generation, impulse lines, etc.

Pipe Size (in.)	Male Straight	Male Shape	Female Straight	Female Shape
	Pipe Pressure Ratings Brass (psi)			
⅛	5600	5000	4000	2900
¼	4100	4100	4300	3000
⅜	4000	4000	3500	2700
½	3900	3100	3600	2500

Tube Size	Pipe Size - Pipe Fitting	A-LOK Male Connector Item No.	CPI Male Connector Item No.	A-LOK Female Connector Item No.	CPI Female Connector Item No.	A-LOK Female Adapter Item No.
ASME SB75, ASTM B75						
¼ in	⅛ in	**1PZN6**	**1PZV9**	—	—	—
	¼ in	**1PZN7**	**1PZW1**	**1PZR7**	**1PZY1**	**4CXX1**
	⅜ in	**1PZN8**	**1PZW2**	—	—	—
	½ in	**1PZN9**	**1PZW3**	—	—	—
⅜ in	¼ in	**1PZP1**	**1PZW4**	**1PZR8**	**1PZY2**	—
	⅜ in	**1PZP2**	**1PZW5**	—	—	**4CXY5**
	½ in	**1PZP3**	**1PZW6**	—	—	—
½ in	¼ in	**1PZP4**	**1PZW7**	—	—	—
	⅜ in	**1PZP5**	**1PZW8**	—	—	—
	½ in	**1PZP6**	**1PZW9**	**1PZR9**	**1PZY3**	—
⅝ in	⅜ in	**1PZP7**	**1PZX1**	—	—	—
	½ in	**1PZP8**	**1PZX2**	**1PZT2**	—	—
¾ in	¾ in	**4EUG2**	**4CXH3**	**4EUF9**	**4CXH4**	—

Tube Size	A-LOK Union Item No.	CPI Union Item No.	A-LOK Bulkhead Union Item No.	CPI Bulkhead Union Item No.	A-LOK Tube Nut Item No.	CPI Tube Nut Item No.	CPI Ferrule Item No.	A-LOK Front Ferrule Item No.	A-LOK Back Ferrule Item No.	A-LOK Plug Item No.	A-LOK Cap Item No.
ASME SB75, ASTM B75											
¼ in	**1PZT3**	**1PZY6**	**1PZT7**	**1PZZ1**	—	—	—	—	—	—	—
⅜ in	**1PZT4**	**1PZY7**	**1PZT8**	**1PZZ2**	—	—	—	—	—	—	—
½ in	**1PZT5**	**1PZY8**	—	—	—	—	—	—	—	—	—
⅝ in	**1PZT6**	**1PZY9**	**1PZU1**	**1PZZ4**	—	—	—	—	—	—	—
¾ in	**4EUF8**	**4CXH5**	—	—	—	—	—	—	—	—	—
ASTM B16 Alloy 360, ASTM B453 Alloy 345, CA-345, CA-360, QQ-B 626 Alloy 360											
¼ in	—	—	—	—	**1WVH8**	**1WVJ3**	**1RAA5**	**1PZV1**	**1PZV5**	—	—
⅜ in	—	—	—	—	**1WVH9**	**1WVJ4**	**1RAA7**	**1PZV2**	**1PZV6**	—	—
½ in	—	—	—	—	**1WVJ1**	**1WVJ5**	**1RAA9**	**1PZV3**	**1PZV7**	—	—
⅝ in	—	—	—	—	**1WVJ2**	**1WVJ6**	**1RAC2**	**1PZV4**	**1PZV8**	—	—
¾ in	—	—	—	—	**4EUF2**	**4CXG8**	**4CXG9**	**4EUF4**	**4EUF3**	—	—
1 in	—	—	—	—	—	**4CXJ2**	**4CXJ3**	**4EUH2**	**4EUH1**	—	—
NACE, NORSOK											
¼ in	—	—	—	—	—	—	—	—	—	**4CXX5**	**4CXX9**
⅜ in	—	—	—	—	—	—	—	—	—	**4CXY7**	**4CXY9**
½ in	—	—	—	—	—	—	—	—	—	**4EUD6**	**4EUD7**

Tube Size	A-LOK Reducing Union Item No.	CPI Reducing Union Item No.
ASME SB75, ASTM B75		
¼ in x ⅛ in	—	**4CXE1**
⅜ in x ¼ in	**4CXY2**	**4CXE7**
½ in x ¼ in	**4CXZ2**	**4CXF6**
½ in x ⅜ in	**4CXZ3**	**4CXF7**

CONTINUED

CONTINUED

Brass Instrumentation Tube Fittings

Parker

Tube Size	A-LOK Union Elbow Item No.	CPI Union Elbow Item No.	A-LOK Union Tee Item No.	CPI Union Tee Item No.
ASME SB75, ASTM B75				
¼ in	1PZU2	1PZZ5	—	—
⅜ in	1PZU3	1PZZ6	—	—
½ in	1PZU4	1PZZ7	—	—
⅝ in	1PZU5	1PZZ8	—	—
¾ in	4EUG4	4CXH2	—	—
ASTM B124 Alloy 377, BS2872 CZ122, CA-377, QQ-B 626 Alloy 377				
¼ in	—	—	1PZU6	1PZZ9
⅜ in	—	—	1PZU7	1RAA1
½ in	—	—	1PZU8	1RAA2
⅝ in	—	—	1PZU9	1RAA3
¾ in	—	—	4EUG7	4CXH6

Tube Size	Pipe Size - Pipe Fitting	A-LOK Male Elbow, 90° Item No.	CPI Male Elbow, 90° Item No.	A-LOK Male Branch Tee Item No.
ASME SB75, ASTM B75				
¼ in	⅛ in	1PZP9	1PZX3	—
	¼ in	1PZR1	1PZX4	—
⅜ in	¼ in	1PZR2	1PZX5	—
	⅜ in	1PZR3	1PZX6	—
½ in	¼ in	—	4CXF4	—
	½ in	1PZR4	1PZX7	—
⅝ in	⅜ in	1PZR5	—	—
	½ in	1PZR6	1PZX9	—
¾ in	¾ in	4EUG3	4CXH1	—
1 in	1 in	—	4CXJ4	—
ASTM B124 Alloy 377, BS2872 CZ122, CA-377, QQ-B 626 Alloy 377				
¼ in	¼ in	—	—	4CXX7
⅜ in	⅜ in		—	4CXY8
½ in	½ in		—	4EUD8

Stainless Steel and Brass Instrumentation Ball Valves

Parker

- 6000 psi at 100°F
- Temp. range: -65° to 350°F ("B" Series); -54° to 400°F (Hi-Pro)

Have excellent low-temperature performance and quick ¼-turn On/Off control. Free-floating ball design extends seat life. Packing nut eases inline adjustment. Valves are panel-mountable, with fracture-resistant nylon handles. 4EUK3 meets ANSI/ASME B13.34 where applicable.

Tube Size	Stainless Steel B-Series - A-LOK Item No.	Stainless Steel B-Series - CPI Item No.	Stainless Steel B-Series - FNPT Item No.	Brass B-Series - FNPT Item No.	Stainless Steel Hi Pro - FNPT Item No.
¼ in	2KLA2	2KKZ8	2KLA5	2KLA8	—
⅜ in	2KLA3	2KKZ9	2KLA6	2KLA9	—
½ in	2KLA4	2KLA1	2KLA7	2KLC1	4EUK3

A-LOK 1-Pc.
1RCH7

A-LOK Inline, 1/4 Turn
1RAY6

A-LOK 3-Way
1RAH7

CPI Angle
1RAK1

CPI Inline
1RAJ4

Instrumentation Ball Valves, "MB" Series

Parker

- Factory preset to 1000 psig
- Temp. range: -65° to 300°F

Valves have a compact footprint and can be used for bidirectional flow; handle indicates flow direction. PFA seats and a 1-pc. packing provide a leaktight seal. Can be panel-mounted.

Tube Size	Max. Pressure	A-LOK 1-Piece, Angle Item No.	A-LOK 3-Way Item No.	A-LOK Inline, ¼ Turn Item No.	CPI Inline, ¼ Turn Item No.	CPI 3-Way, ¼ Turn Item No.
316 Stainless Steel						
⅛ in	2,500 psi CWP	—	1RCJ6	1RAY6	—	—
¼ in	2,500 psi CWP	1RCH7	1RCK1	1RAY7	1WBL7	—
⅜ in	3,000 psi CWP	—	1RCK5	1RAY8	1WBL9	1WBK2
½ in	2,500 psi CWP	—	1RCK9	1RAY9	—	—

Tube Size	Max. Pressure	A-LOK 3-Way Item No.	A-LOK Inline Item No.	CPI 3-Way Item No.	CPI Angle Item No.	CPI Inline Item No.
Brass						
⅛ in	2,500 psi CWP	1RAH7	1RAF6	1RAK5	—	1RAJ4
¼ in	2,500 psi CWP	1RAH9	1RAF8	1RAK7	1RAK1	1RAJ6
⅜ in	3,000 psi CWP	1RAJ2	1RAH1	1RAK9	—	1RAJ8

Toggle Handle
3ZVU5

Locking Lever
3ZVP7

Instrumentation Ball Valves

HAM-LET ADVANCED CONTROL TECHNOLOGY

- 1-pc., standard port

300 PSI CWP, FKM SEALS

- Temp. range: -40° to 400°F

Designed for normally closed and quick On/Off service. Moving handle 90° upward locks in open position. Moving handle 90° downward shuts off by spring return.

2000 PSI CWP, PTFE SEALS

- Temp. range: -40° to 400°F

Feature an explosionproof stem. Locking handle models can be locked in both On and Off positions. Tight shutoff and low operating torque.

6000 PSI CWP, PCTFE (KEL-F) SEALS

- Temp. range: -20° to 280°F

On/Off, straight-port valves have a 2-way pattern. 3-way valves can be used for diverter service. Tight shutoff and low operating torque.

Tube Size	Pipe Size	Body Style	Connec. Type	Body Material	Handle Type: Toggle Item No.	Handle Type: Locking Lever Item No.
300 psi CWP						
—	¼ in	Angle	MNPT x MNPT	Brass	3ZVX3	—
—	¼ in	Inline	MNPT x MNPT	316 SS	3ZVU5	—
—	¼ in	Inline	MNPT x MNPT	Brass	3ZVX2	—
⅛ in	—	Inline	Comp. x Comp.	316 SS	3ZVU1	—
¼ in	—	Angle	Comp. x Comp.	316 SS	3ZVU3	—
¼ in	—	Inline	Comp. x Comp.	316 SS	3ZVU2	—
¼ in	—	Inline	Comp. x Comp.	Brass	3ZVU8	—
2,000 psi CWP						
—	¼ in	Inline	MNPT x Comp.	316 SS	—	3ZVR3
—	⅜ in	Inline	MNPT x Comp.	316 SS	—	3ZVR4
—	½ in	Inline	MNPT x Comp.	316 SS	—	3ZVR5
—	¾ in	Inline	MNPT x Comp.	316 SS	—	3ZVR6
¼ in	—	Inline	Comp. x Comp.	316 SS	—	3ZVP7
⅜ in	—	Inline	Comp. x Comp.	316 SS	—	3ZVP8
½ in	—	Inline	Comp. x Comp.	316 SS	—	3ZVP9
¾ in	—	Inline	Comp. x Comp.	316 SS	—	3ZVR1
1 in	—	Inline	Comp. x Comp.	316 SS	—	3ZVR2
6,000 psi CWP						
⅛ in	—	3-Way	Comp. x Comp. x Comp.	316 SS	3ZVT6	—
¼ in	—	3-Way	Comp. x Comp. x Comp.	316 SS	3ZVT7	—
¼ in	—	Inline	Comp. x Comp.	316 SS	3ZVT3	—
⅜ in	⅜ in	Inline	Comp. x Comp.	316 SS	3ZVT4	—

Instrumentation Check Valves, "C" Series

- 6000 psi at 115°F
- Cracking pressure: 1 psi
- Max. temp.: 400°F

Designed for unidirectional flow control. Custom-molded seat helps prevent blowouts. Fluorocarbon backstopped poppet reduces spring stress. Valves offer heat code traceability for material certification. FNPT connections.

Size	Flow gpm @ 60°F w/1000 psig Inlet Press.	L	Item No.
¼"	2.4	2 13⁄32 in	2KLD2
⅜"	7.1	3 in	2KLD3
½"	11.2	3 9⁄16 in	2KLD4

Instrumentation Plug Valves

- Max. pressure: 3000 psig CWP
- Temp. range: -10° to 450°F

¼-turn operation, compact, and blowout-resistant seat allows forward flow throttling. Handle indicates flow direction. Pressure rating is reduced to 150 psig when flow is opposite to the indicated direction. Fluorocarbon seats and seals. Compression connections. Meet ASTM A479 Type 316, except Brass meets ASTM B 16 Alloy C36000.

A-LOK
1RBB7

			316 Stainless Steel		Brass	
Tube Size	Cv	Overall Length	A-LOK(R) Item No.	CPI(R) Item No.	A-LOK(R) Item No.	CPI(R) Item No.
¼ in	1.24	2 9/50 in	1RBB7	1RBC1	1RBC4	1RBC7
⅜ in	3.19	2 33/50 in	1RBB8	1RBC2	1RBC5	1RBC8
½ in	3.19	2 22/25 in	1RBB9	1RBC3	—	1RBC9

Instrumentation Needle Valves

STAINLESS STEEL, GLOBE-STYLE
- Max. pressure: 6000 psi

A self-centering nonrotating spindle tip provides bubble-tight shutoff; backstop spindle prevents blowout and minimizes atmospheric contamination. PTFE gland packing.

GENERAL-PURPOSE

Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals. Tested in accordance with ISA S75.02.

316 Stainless Steel— Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals.
- Max. pressure: 5000 psig CWP

Brass—Packing above the stem thread (PAT) provides bubble-tight shutoff. Cold-formed body threads. Strain-hardened stem threads. PTFE seals.
- Max. pressure: 3000 psig CWP

316 STAINLESS STEEL, HIGH-PURITY
- Max. pressure: 6000 psig CWP

Stem packing below power thread (PBT) prevents stem thread contamination and potential lubricant washout. 2-pc., nonrotating stem prevents stem-to-seat galling. PTFE seals. Meets ASTM A 182 Type F316.

4EUJ9

2KLC8

1RAZ4

							Stainless Steel		316 Stainless Steel		Brass	
Tube Size	Pipe Size	Connection	Stem Type	Max. Flow	Max. Height	L	Temp. Rating	Item No.	Temp. Rating	Item No.	Temp. Rating	Item No.
Stainless Steel, Globe-Style												
—	¼ in	FNPT	Stainless Steel	0.35 gpm	3 ⅛ in	2 ⅛ in	-65° to 450°F	4EUJ9	—	—	—	—
	½ in	FNPT	Stainless Steel	0.35 gpm	3 ⅛ in	2 ½ in	-65° to 450°F	4EUK1	—	—	—	—
General-Purpose												
—	¼ in	FNPT	Blunt	0.73 gpm	3 35⁄64 in	1 ⅞ in	—	—	-65° to 450°F	2KLC2	-65° to 450°F	2KLC5
	¼ in	FNPT	Needle	0.55 gpm	3 35⁄64 in	1 ⅞ in	—	—	-65° to 450°F	2KLC3	-65° to 450°F	2KLC6
	¼ in	FNPT	PCTFE	0.8 gpm	3 35⁄64 in	1 ⅞ in	—	—	-65° to 350°F	2KLC4	-65° to 350°F	2KLC7
	½ in	FNPT	Blunt	1.23 gpm	4 17⁄64 in	2 49⁄64 in	—	—	-65° to 450°F	2KLC8	—	—
	½ in	FNPT	Needle	1.05 gpm	4 17⁄64 in	2 49⁄64 in	—	—	-65° to 450°F	2KLC9	—	—
	½ in	FNPT	PCTFE	1.29 gpm	4 17⁄64 in	2 49⁄64 in	—	—	-65° to 350°F	2KLD1	—	—
⅛"	—	A-LOK(R)/Compression	Blunt	0.12 gpm	63⁄64 in	2 1⁄64 in	—	—	-65° to 450°F	1RAZ1	—	—
¼"	—	A-LOK(R)/Compression	Blunt	0.43 gpm	3 1⁄16 in	2 5⁄16 in	—	—	-65° to 450°F	1RAZ4	-65° to 400°F	1RBA7
	—	A-LOK(R)/Compression	Blunt Needle PCTFE	0.45 gpm	3 1⁄16 in	2 5⁄16 in	—	—	-65° to 450°F	1RAZ6	—	—
	—	A-LOK(R)/Compression	Regulating	0.43 gpm	3 1⁄16 in	2 5⁄16 in	—	—	-65° to 450°F	1RAZ5	-65° to 400°F	1RBA8
⅜"	—	A-LOK(R)/Compression	Regulating	0.55 gpm	3 35⁄64 in	2 37⁄64 in	—	—	-65° to 350°F	1RAZ8	—	—
	—	A-LOK(R)/Compression	Blunt	0.73 gpm	3 35⁄64 in	2 37⁄64 in	—	—	-65° to 450°F	1RAZ7	-65° to 400°F	1RBB1
	⅜ in	A-LOK(R)/Compression	Blunt Needle PCTFE	0.8 gpm	3 35⁄64 in	2 37⁄64 in	—	—	-65° to 450°F	1RAZ9	—	—
½"	—	A-LOK(R)/Compression	Regulating	1.05 gpm	4 3⁄16 in	3 1⁄16 in	—	—	-65° to 450°F	1RBA2	—	—
	—	A-LOK(R)/Compression	Blunt	1.23 gpm	4 3⁄16 in	3 1⁄16 in	—	—	—	—	-65° to 400°F	1RBB4
	—	A-LOK(R)/Compression	Blunt Needle PCTFE	1.29 gpm	4 3⁄16 in	3 1⁄16 in	—	—	-65° to 350°F	1RBA3	—	—
316 Stainless Steel, High-Purity												
⅜"	—	A-LOK(R)/Compression	Blunt Needle PCTFE	0.51 gpm	3 21⁄32 in	2 15⁄32 in	—	—	-65° to 350°F	1RBW8	—	—

Nickel-Plated Brass Mini Ball Valves and Kits

- Temp. range: -20° to 370°F, except kits are -40° to 350°F

Ideal for use in tight spaces and can be used with air, gas, and liquids. Valve structure is 1-pc. and full port, except ½" are standard port. 450 psi CWP valves have polycarbonate wedge handles and can be panel mounted. 600 psi CWP valves have zinc, wedge handles. Kits 1PZA7 to 1PZB5 include wedge, lever, and T-style handles. Nos. 38EF92 to 38EF99 are lead free and certified for use with potable water and meet MSS SP-110.

38EF84
(Valve Only)

1PZA7
(Valve Kit)

Pipe Size	FNPT x FNPT (Valve Only) 450 psi CWP Item No.	FNPT x FNPT (Valve Only) 450 psi CWP Lead-Free Brass Item No.	FNPT x FNPT (Valve Only) 600 psi CWP Item No.	FNPT x MNPT (Valve Only) 450 psi CWP Item No.	FNPT x MNPT (Valve Only) 450 psi CWP Lead-Free Brass Item No.	FNPT x MNPT (Valve Only) 600 psi CWP Item No.	FNPT x FNPT (Valve Kit) 450 psi CWP Item No.	FNPT x MNPT (Valve Kit) 450 psi CWP Item No.
⅛ in	38EF84	38EF92	—	38EF88	38EF96	38EG05	1PZA7	1PZB2
¼ in	38EF85	38EF93	38EG02	38EF89	38EF97	38EG06	1PZA8	1PZB3
⅜ in	38EF86	38EF94	38EG03	38EF90	38EF98	38EG07	1PZA9	1PZB4
½ in	38EF87	38EF95	—	38EF91	38EF99	38EG08	1PZB1	1PZB5

Brass Mini Ball Valves

Feature PTFE seats and packing, a blowoutproof stem, and a steel lever handle. For use with water, oil, and gas.

21VL78

1WMN1

Pipe Size	Valve Structure	Port	Max. Pressure	Temp. Range	Lever FNPT x FNPT Item No.	Lever FNPT x MNPT Item No.	Lever Comp. x Comp. Item No.	Round FNPT x FNPT Item No.	Round MNPT x MNPT Item No.	Round Comp. x Comp. Item No.	Round FNPT x MNPT Item No.
⅛"	1-Pc.	Full	500 psi CWP	-35° to 300°F	21VL80	21VL78	—	—	—	—	—
	2-Pc.	Full	1,000 psi CWP	-40° to 300°F	1WML2	1WML3	1WML4	1WMN2	1WMN1	—	—
¼"	1-Pc.	Std.	500 psi CWP	-35° to 300°F	21VL81	21VL79	—	—	—	—	—
	2-Pc.	Full	1,000 psi CWP	-40° to 300°F	1WML6	1WML7	1WML8	1WMN6	1WMN5	1WMN8	1WMN7
⅜"	2-Pc.	Full	1,000 psi CWP	-40° to 300°F	—	—	1WML9	—	—	1WMN9	—

Apollo Valves

36N581

Lead-Free XPRESS Forged Brass and Bronze Ball Valves

- Max. pressure: 250 psi
- Temp. range: 0° to 250°F

2-pc., full-port valves have press connections compatible with Rigid press tools, and install in seconds. PTFE seats, plated brass ball, and Leak-Before-Press feature.

Tube Size	With Lever Handle Item No.
Press x Press	
Lead-Free Brass Stem	
½ in	36N581
¾ in	36N582
1 in	36N583
1 ¼ in	36N584
1 ½ in	36N585
2 in	36N586
3 in	36N588
4 in	36N589
316 Stainless Steel Stem	
½ in	36N590
¾ in	36N591
2 in	36N595

Zero Lead Bronze Viega ProPress Ball Valves

20XW46

viega

- Max. pressure: 250 psi
- Temp. range: 0° to 250°F

2-pc., full-port valves have silicon-bronze alloy body with innovative Viega Smart Connect feature that allows installers to identify unpressed connections during pressure testing. Blowoutproof stem and 316 stainless steel ball.

Tube Size	Stem Material	FNPT x Press Item No.	Press x Press Item No.
½ in x ½ in	Lead Free Brass	20XW58	20XW46
½ in x ½ in	316 Stainless Steel	—	20XW52
¾ in x ¾ in	Lead Free Brass	20XW59	20XW47
¾ in x ¾ in	316 Stainless Steel	—	20XW53
1 in x 1 in	Lead Free Brass	20XW60	20XW48
1 ¼ in x 1 ¼ in	Lead Free Brass	—	20XW49
1 in x 1 in	316 Stainless Steel	—	20XW54
1 ¼ in x 1 ¼ in	316 Stainless Steel	—	20XW55

Bronze and Brass Viega ProPress Ball Valves

33KF34

viega

- Max. pressure: 200 psi CWP
- Temp. range: 0° to 250°F

Install these 3-pc., full-port valves in seconds with flameless press technology that allows you to eliminate the need to sweat connections. The Viega Smart Connect feature lets you identify unpressed connections during pressure testing. Blowoutproof stem and chrome-plated ball.

Tube Size	FNPT x Press Item No.	Press x Press Item No.
½ in x ½ in	33KF40	33KF34
¾ in x ¾ in	33KF41	33KF35
1 in x 1 in	33KF42	33KF36
1 ¼ in x 1 ¼ in	—	33KF37
1 ½ in x 1 ½ in	—	33KF38
2 in x 2 in	—	33KF39

5ULX8

Zero Lead Bronze Viega ProPress Check Valves

viega

- Max. pressure: 200 psi
- Cracking pressure: 0.5 psi
- Temp. range: 0° to 180°F

Viega Smart Connect feature identifies unpressed connections. Zero-lead bronze body and POM bubble-tight check valve insert. EPDM sealing element. P x P connection.

Size	Item No.
½" x ½"	5ULX8
¾" x ¾"	5ULX9
1¼" x 1¼"	5ULY1
1½" x 1½"	5ULY2
2" x 2"	5ULY3

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure	Temp. Range	FNPT x FNPT Item No.	
¼"	PTFE	Brass	600 psi CWP	0° to 400°F	32H969	*
	PTFE	CPB	600 psi CWP	-40° to 365°F	6GD11	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K872	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K880	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K909	
⅜"	PTFE	Brass	600 psi CWP	0° to 400°F	32H971	*
	PTFE	CPB	600 psi CWP	-20° to 300°F	6GD13	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K873	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K881	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K910	
½"	PTFE	Brass	600 psi CWP	0° to 400°F	32H970	*
	PTFE	CPB	600 psi CWP	-20° to 300°F	6GD14	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K874	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K882	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K911	
¾"	PTFE	Brass	600 psi CWP	0° to 400°F	32H972	*
	PTFE	CPB	600 psi CWP	-20° to 300°F	6GD15	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K875	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K883	*
1"	PTFE	Brass	600 psi CWP	0° to 400°F	32H973	*
	PTFE	CPB	600 psi CWP	-20° to 300°F	6GD16	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K876	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K884	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K912	
1¼"	PTFE	304 SS	600 psi CWP	-20° to 300°F	6GD17	
	PTFE	Brass	600 psi CWP	0° to 400°F	32H974	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K877	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K885	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K913	
1½"	PTFE	304 SS	600 psi CWP	-20° to 300°F	6GD18	
	PTFE	Brass	600 psi WOG	0° to 400°F	32H975	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K878	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K886	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K914	
2"	PTFE	304 SS	900 psi CWP	-20° to 300°F	6GD19	
	PTFE	Brass	600 psi WOG	0° to 400°F	32H976	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K879	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K887	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K915	
2½"	PTFE	Brass	600 psi WOG	0° to 400°F	32H977	*
	PTFE	CPB	600 psi CWP	-40° to 400°F	6GD20	
	PTFE	CPB	600 psi CWP	0° to 350°F	20K916	
3"	PTFE	304 SS	600 psi CWP	-20° to 300°F	6GD12	
	PTFE	Brass	600 psi WOG	0° to 400°F	32H978	*
	PTFE	CPB	600 psi CWP	0° to 350°F	20K917	
4"	PTFE	CPB	600 psi CWP	-40° to 350°F	1PYT2	

** Locking lever handle. † CPB = chrome-plated brass. SS = stainless steel.*

6GD11

1CKC8

Apollo Valves

MILWAUKEE VALVE

Brass Ball Valves

2-pc. valves have PTFE seats and packing, steel lever handle, and brass ball and stem. For use in flow control applications with water, oil, and gas.

Pipe Size	Tube Size	Ball Material†	Max. Pressure psi CWP	Temp. Range	APOLLO Sweat x Sweat Item No.	APOLLO FNPT x FNPT Item No.	MILWAUKEE VALVE FNPT x FNPT, Locking Lever, PTFE Body Seal Item No.	MILWAUKEE VALVE Sweat x Sweat, Locking Lever, PTFE Body Seal Item No.
—	½ in	CPB	600	0° to 400°F	1CKE1	—	—	—
—	¾ in		600	0° to 400°F	1CKE2	—	—	—
—	1 in		600	0° to 400°F	1CKE3	—	—	—
—	1 ¼ in		600	0° to 400°F	1CKE4	—	—	—
—	1 ½ in		600	0° to 400°F	1CKE5	—	—	—
—	2 in		600	0° to 400°F	1CKE6	—	—	—
—	2 ½ in		400	0° to 400°F	1CKE7	—	—	—
—	3 in		400	0° to 400°F	1CKE8	—	—	—
—	4 in		400	0° to 400°F	1CKE9	—	—	—
¼ in	—		600	0° to 400°F	—	1CKC8	3RCE6	—
⅜ in	—		600	0° to 400°F	—	1CKC9	3RCE8	—
½ in	—		600	0° to 400°F	—	1CKD1	3RCE7	3RCF7
¾ in	—		600	0° to 400°F	—	1CKD2	3RCE9	3RCF8
1 in	—		600	0° to 400°F	—	1CKD3	3RCF1	3RCF9
1 ¼ in	—		600	0° to 400°F	—	1CKD4	3RCF2	3RCG1
1 ½ in	—		600	0° to 400°F	—	1CKD5	3RCF3	3RCG2
2 in	—		600	0° to 400°F	—	1CKD6	3RCF4	3RCG3
2 ½ in	—		400	0° to 400°F	—	1CKD7	—	—
2 ½ in	—		600	0° to 400°F	—	—	3RCF5	3RCG4
3 in	—		400	0° to 400°F	—	1CKD8	—	—
3 in	—		600	0° to 400°F	—	—	3RCF6	3RCG5
4 in	—		400	0° to 400°F	—	1CKD9	—	—

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure psi CWP	FNPT x FNPT, Vented Temp. Range	FNPT x FNPT, Vented Item No.		FNPT x MNPT Temp. Range	FNPT x MNPT Item No.	FNPT x FNPT, Panel Mount Temp. Range	FNPT x FNPT, Panel Mount Item No.
¼ in	PTFE	CPB	300	-40° to 350°F	20K893	*	—	—	—	—
	PTFE	CPB	600	-40° to 350°F	20K890		0° to 350°F	20K898	0° to 350°F	20K904
	PTFE	CPB	600	—	—		-40° to 400°F	6GD21	—	—
⅜ in	PTFE	CPB	300	-40° to 350°F	20K894	*	—	—	—	—
	PTFE	CPB	600	-40° to 350°F	20K891		-40° to 400°F	6GD22	—	—
	PTFE	CPB	600	—	—		0° to 350°F	20K899	—	—

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CONTINUED

Brass Ball Valves

Pipe Size	Body Seal Material	Ball Material†	Max. Pressure psi CWP	FNPT x FNPT, Vented Temp. Range	FNPT x FNPT, Vented Item No.	FNPT x MNPT Temp. Range	FNPT x MNPT Item No.	FNPT x FNPT, Panel Mount Temp. Range	FNPT x FNPT, Panel Mount Item No.	Sweat x Sweat Temp. Range	Sweat x Sweat Item No.
½"	PTFE	CPB	300	-40° to 350°F	20K895 *	—	—	—	—	—	—
	PTFE	CPB	600	-40° to 350°F	20K892	-40° to 400°F	6GD23	0° to 350°F	20K906	-40° to 400°F	6GD26
	PTFE	CPB	600	—	—	0° to 350°F	20K901	—	—	—	—
¾"	PTFE	CPB	300	-40° to 350°F	20K896 *	—	—	—	—	—	—
	PTFE	CPB	600	—	—	-40° to 400°F	6GD24	0° to 350°F	20K907	0° to 356°F	6GD27
	PTFE	CPB	600	—	—	0° to 350°F	20K902	—	—	—	—
1"	PTFE	CPB	300	-40° to 350°F	20K897 *	—	—	—	—	—	—
	PTFE	CPB	600	—	—	-40° to 400°F	6GD25	0° to 350°F	20K908	-20° to 300°F	6GD28
	PTFE	CPB	600	—	—	0° to 350°F	20K903	—	—	—	—
1¼"	PTFE	CPB	600	—	—	—	—	—	—	-40° to 400°F	1PYP6
1½"	—	CPB	600	—	—	—	—	—	—	-40° to 350°F	1PYP7
2"	—	CPB	600	—	—	—	—	—	—	-40° to 350°F	1PYP8
2½"	—	CPB	600	—	—	—	—	—	—	-40° to 350°F	1PYP9
3"	—	Forged Brass	150	—	—	—	—	—	—	-40° to 350°F	1PYT1

** Locking lever handle. † CPB = chrome-plated brass. SS = stainless steel.*

Lead-Free Brass Ball Valves

- Max. pressure: 600 psi CWP, except 400 psi CWP (2½" to 4")

2-pc., full-port valves with PTFE seats and packing and brass stem. Milwaukee Valve items have combination stem extensions and memory stops available on Grainger.com. All valves are certified for use in potable water applications.

Pipe Size	Ball Material*	FNPT x FNPT Temp. Range	FNPT x FNPT Item No.	Sweat x Sweat Temp. Range	Sweat x Sweat Item No.
Apollo, EPDM Body Seal					
½ in	CPB	—	—	32° to 250°F	20RE29
¾ in	CPB	—	—	32° to 250°F	20RE30
1 in	CPB	—	—	32° to 250°F	20RE31
Apollo, PTFE Body Seal					
¼ in	CPB	-20° to 450°F	20RE06	—	—
⅜ in	CPB	-20° to 450°F	20RE07	—	—
½ in	CPB	-20° to 450°F	20RE08	50° to 200 °F	20RE17
¾ in	CPB	-20° to 450°F	20RE09	50° to 200 °F	20RE18
1 in	CPB	-20° to 450°F	20RE10	50° to 200 °F	20RE19
1 ¼ in	316 SS	-20° to 366°F	20RE11	-20° to 366°F	20RE20
1 ½ in	316 SS	-20° to 366°F	20RE12	-20° to 366°F	20RE21
2 in	316 SS	-20° to 366°F	20RE13	-20° to 366°F	20RE22
2 ½ in	316 SS	-20° to 366°F	20RE14	-20° to 366°F	20RE23
3 in	316 SS	-20° to 366°F	20RE15	-20° to 366°F	20RE24
4 in	316 SS	-20° to 366°F	20RE16	—	—

** SS = stainless steel. CPB = chrome-plated brass.*

Pipe Size	Ball Material*	FNPT x FNPT Temp. Range	FNPT x FNPT Item No.	Sweat x Sweat Temp. Range	Sweat x Sweat Item No.
Milwaukee Valve, PTFE Body Seal					
¼ in	CPB	Up to 180°F	5EMR6	—	—
⅜ in	CPB	Up to 180°F	5EMR7	—	—
½ in	CPB	Up to 180°F	5EMR8	Up to 180°F	5EMT4
¾ in	CPB	Up to 180°F	5EMR9	Up to 180°F	5EMT5
1 in	CPB	Up to 180°F	5EMT0	Up to 180°F	5EMT6
1 ¼ in	CPB	Up to 180°F	5EMT1	Up to 180°F	5EMT7
1 ½ in	CPB	Up to 180°F	5EMT2	Up to 180°F	5EMT8
2 in	CPB	Up to 180°F	5EMT3	Up to 180°F	5EMT9
PTFE Body Seal					
¼ in	Lead Free CPB	0°F to 365°F	32H994	—	—
⅜ in	304 SS	0°F to 365°F	32H995	—	—
½ in	304 SS	-20° to 300°F	32H996	—	—
¾ in	304 SS	-20° to 300°F	32H997	—	—
1 in	304 SS	-20° to 300°F	32H998	—	—
1 ¼ in	304 SS	-20° to 300°F	32H999	-20° to 300°F	32J012
1 ½ in	304 SS	-20° to 300°F	32J001	-20° to 300°F	32J013
2 in	304 SS	-20° to 300°F	32J002	0°F to 365°F	32J014

Pipe Size	Ball Material*	Temp. Range	FNPT x MNPT Item No.
PTFE Body Seal			
½ in	304 SS	-20° to 300°F	32J015
¾ in	304 SS	-20° to 300°F	32J016
1 in	304 SS	-20° to 300°F	32J017
2 in	304 SS	0°F to 365°F	32J020

32J012

5EMR6

32J015

Chrome-Plated Brass Ball Valves

- Max. steam pressure: 150 psi SWP
- Vacuum service to 27" Hg

2-pc. full-port valves with a vinyl grip and blowoutproof stem. PTFE seats.

1PYT6

20RH16

Pipe Size	Connec. Type	Body Style	Temp. Range	Max. Pressure	Item No.
Lever					
¼"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYT6
	FNPT x FNPT x FNPT	3-Way	-200° to 350°F	400 psi CWP	20RH40
	FNPT x MNPT	Inline	-40° to 400°F	900 psi CWP	1PYX1
	SAE Female	Inline	0° to 350°F	600 psi CWP	20RH35
⅜"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYT7
	FNPT x FNPT x FNPT	3-Way	-200° to 350°F	400 psi CWP	20RH41
	FNPT x MNPT	Inline	-40° to 400°F	900 psi CWP	1PYX2
	SAE Female	Inline	0° to 350°F	600 psi CWP	20RH36
½"	FNPT x FNPT	Inline	-40° to 400°F	600 psi CWP	1PYT8
	FNPT x FNPT x FNPT	3-Way	-200° to 350°F	400 psi CWP	20RH42
	FNPT x MNPT	Inline	-40° to 400°F	900 psi CWP	1PYX3
	SAE Female	Inline	0° to 350°F	600 psi CWP	20RH37
¾"	FNPT x FNPT	Inline	-40° to 400°F	600 psi CWP	1PYT9
	FNPT x FNPT x FNPT	3-Way	-200° to 350°F	400 psi CWP	20RH43
	FNPT x MNPT	Inline	-40° to 400°F	900 psi CWP	1PYX4
	SAE Female	Inline	0° to 350°F	600 psi CWP	20RH38
1"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYU1
	FNPT x FNPT x FNPT	3-Way	-200° to 350°F	400 psi CWP	20RH44
	FNPT x MNPT	Inline	-40° to 400°F	900 psi CWP	1PYX5
	SAE Female	Inline	0° to 350°F	600 psi CWP	20RH39
1¼"	FNPT x FNPT	Inline	-20° to 300°F	900 psi CWP	1PYU2
1½"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYU3
2"	FNPT x FNPT	Inline	-20° to 300°F	900 psi CWP	1PYU4

Pipe Size	Connec. Type	Body Style	Temp. Range	Max. Pressure	Item No.
Locking Lever					
¼"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYU8
	FNPT x MNPT	Inline	0° to 350°F	600 psi CWP	20RH16
⅜"	FNPT x FNPT	Inline	-20° to 300°F	900 psi CWP	1PYU9
	FNPT x MNPT	Inline	0° to 350°F	600 psi CWP	20RH17
½"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYV1
	FNPT x MNPT	Inline	0° to 350°F	600 psi CWP	20RH18
¾"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYV2
1"	FNPT x FNPT	Inline	-20° to 300°F	600 psi CWP	1PYV3

Auto Safety Exhaust Brass Ball Valves

- Max. pressure: 300 psi CWP
- Temp. range: -40° to 350°F

2-pc., full-port valves also have a 5⁄16" safety exhaust port, PTFE seats, and FNPT connections. Relieve downstream pressure when in closed position. Exhaust port complies with OSHA requirements 1910.147.

Pipe Size	Item No.
¼ in	6GD06
⅜ in	6GD07
½ in	6GD08
¾ in	6GD09
1 in	6GD10
1 ¼ in	1PYZ3
1 ½ in	1PYZ4
2 in	1PYZ5

1PYZ3

32J027

Brass Ball Valves, Full Port

- Max. pressure: 400 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: 0° to 356°F

2-pc. with PTFE seals, brass ball, FNPT connections, and blowoutproof brass stem.

Pipe Size	Brass Item No.	Nickel-Plated Brass Item No.
¼ in	32J027	—
⅜ in	32J028	—
½ in	32J029	—
¾ in	32J030	—
1 in	32J031	32J042

BONOMI
NORTH AMERICA, INC.

46CE30

3-Way Brass Ball Valves—4-Pc.

- Max. pressure: 400 psi CWP
- Max. steam pressure: 100 psi SWP
- Temp. range: -4° to 366°F

Feature 4-ball seats so that any port can be the pressurized inlet. PTFE seats with O-ring backing for low operating torque. Brass body, ball, FNPT connections, and brass blowoutproof stem. For a specific flow pattern, remove the handle and reorient the valve stem to the desired flow path, then reattach the handle. L Port models have a 90° flow pattern with off position. T Port models have a 90° and 180° flow path.

Pipe Size	Standard L Port Item No.	Standard T Port Item No.
¼ in	46CE30	46CE38
⅜ in	46CE31	46CE39
½ in	46CE32	46CE40
¾ in	46CE33	46CE41
1 in	46CE34	46CE42
1 ¼ in	46CE35	46CE43
1 ½ in	46CE36	46CE44
2 in	46CE37	46CE45

MILWAUKEE VALVE

1JBA4

Brass Ball Valves with Memory Stop Handle

- Max. pressure: 600 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: 0° to 350°F

Memory stop can be set to any preset opening point. 2-pc., full port. PTFE seats. Ideal for balancing HVAC systems in commercial and residential plumbing applications.

Pipe Size	FNPT x FNPT Item No.	Sweat x Sweat Item No.
¼ in	1JBA4	—
⅜ in	1JBA5	—
½ in	1JBA6	3RCJ6
¾ in	1JBA7	3RCJ7
1 in	1JBA8	3RCJ8
1 ¼ in	1JBA9	3RCJ9
1 ½ in	1JBB1	3RCK1
2 in	1JBB2	3RCK2

3-Way Brass Ball Valves

1PYZ8

- Max. pressure: 600 psi CWP
- Max. steam pressure: 100 psi SWP
- Temp. range: -4° to 350°
- FNPT connections

3-way diversion valves with L flow pattern are ideal for tank selection and help simplify fluid transfers. The middle port is common and can divert to the left or right port. 2-pc., standard-port with PTFE seats, FNPT connections, brass body, chrome-plated brass ball and stem, and a steel lever handle with vinyl grip. Blowoutproof stem.

Pipe Size	Item No.
¼ in	1PYZ8
⅜ in	1PYZ9
½ in	1PZA1
¾ in	1PZA2
1 in	1PZA3
1 ½ in	1PZA5
2 in	1PZA6

1WMG7

Brass Ball Valves with T-Handle

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -4° to 250°F

2-pc., full-port, brass-body valves have a twin-ear handle with shorter ears; ideal for use in tight spaces. With glass-filled PTFE seats, chrome-plated brass ball, blowoutproof brass stem, and glass-filled PTFE packing. Vacuum rated to 29" Hg.

Pipe Size	FNPT x FNPT Item No.	FNPT x MNPT Item No.
¼ in	1WMG7	1WMH3
⅜ in	1WMG8	1WMH4
½ in	1WMG9	1WMH5
¾ in	1WMH1	1WMH6
1 in	1WMH2	—

6KK51

40D906

Bronze and Lead-Free Bronze Ball Valves, Standard-Port

Apollo Valves

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F
- EZ-Solder lead-free bronze

Heavy-duty cast bronze 2-pc. design with RPTFE seats (except 6KK47 to 6KK54 are PTFE), zinc-plated steel handle, blowoutproof, and adjustable packing gland. Vacuum service to 29" Hg. All models are for use in steam, water, oil, and gas systems in commercial and light industrial applications.

Pipe Size	FNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	Item No.	FNPT x FNPT, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	FNPT x MNPT, Brass Stem, Lever Handle Mfr. Model	Item No.	MNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	Item No.	Sweat x Sweat, Brass Stem, Lever Handle Mfr. Model	Item No.
Bronze Body										
¼ in	7010101	6KK47	7010127	2EEJ1	—	—	7080101	1MMP1 *	—	—
⅜ in	7010201	6KK48	7010227	2EEJ2	7080201	1MMP2 *	—	—	—	—
½ in	7010301	6KK49	7010327	2EEJ3	7080301	1MMP3 *	—	—	7020301	2EEH4
¾ in	7010401	6KK50	7010427	2EEJ4	7080401	1MMP4 *	—	—	7020401	2EEH5
1 in	7010501	6KK51	7010527	2EEJ5	7080501	1MMP5 *	—	—	7020501	2EEH6
1 ¼ in	7010601	6KK52	7010627	2EEJ6	7080601	1MMP6 *	—	—	7020601	2EEH7
1 ½ in	7010701	6KK53	7010727	2EEJ7	7080701	1MMP7 *	—	—	7020701	2EEH8
2 in	7010801	6KK54	7010827	2EEJ8	—	—	—	—	7020801	2EEH9

Size	For Use With	Item No.
Stem Extension Kits		
¼ in	94ALF-102-01A, 94ALF-101-01A	20VC37
½"	94ALF-203-01A, 94ALF-103-01A	20VC38
¾ in	94ALF-204-01A, 94ALF-104-01A	20VC39
1 in	94ALF-205-01A, 94ALF-105-01A	20VC40
1 ½ in	94ALF-108-01A, 94ALF-207-01A, 94ALF-208-01A, 94ALF-107-01A	20VC42
2 ½ in	94ALF-206-01A, 94ALF-106-01A	20VC41
2 ½ in	94ALF-100-01A, 94ALF-200-01A, 94ALF-209-01A, 94ALF-109-01A	20VC43
4 in	94ALF-20A-01A, 94ALF-10A-01A	20VC44

Pipe Size	FNPT x FNPT, Brass Stem, Lever Handle Mfr. Model	Item No.	FNPT x FNPT, 316 S.S. Stem, Lever Handle Mfr. Model	Item No.	FNPT x FNPT, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	FNPT x MNPT, Brass Stem, Lever Handle Mfr. Model	Item No.	Sweat x Sweat, Brass Stem, Lever Handle Mfr. Model	Item No.	Sweat x Sweat, 316 S.S. Stem, Lever Handle Mfr. Model	Item No.
Lead-Free Bronze Body												
¼"	70LF-101-01	5FVZ7 *	70LF14101	40D895	70LF10127	31EE47 *	—	—	—	—	—	—
⅜"	70LF10210	31EE48 *	70LF14201	40D896	—	—	—	—	70LF-202-01	5FWA5 *	70LF24201	40D912
	70LF-102-01	5FVZ8 *	—	—	—	—	—	—	—	—	—	—
½"	70LF10310	31EE50 *	70LF14301	40D897	70LF10327	31EE51 *	70LF80301	31EE60 *	70LF-203-01	5FWA6 *	70LF24301	40D913
	70LF-103-01	5FVZ9 *	—	—	—	—	—	—	—	—	—	—
¾"	70LF10410	31EE52 *	70LF14401	40D898	70LF10427	31EE53 *	70LF80401	31EE61 *	70LF-204-01	5FWA7 *	70LF24401	40D914
	70LF-104-01	5FWA0 *	—	—	—	—	—	—	—	—	—	—
1"	70LF10510	31EE54 *	70LF14501	40D899	70LF10527	31EE55 *	70LF80501	31EE62 *	70LF-205-01	5FWA8 *	70LF24501	40D915
	70LF-105-01	5FWA1 *	—	—	—	—	—	—	—	—	—	—
1¼"	70LF-106-01	5FWA2 *	70LF14601	40D901	70LF10627	31EE56 *	—	—	70LF-206-01	5FWA9 *	70LF24601	40D916
1½"	70LF-107-01	5FWA3 *	70LF14701	40D902	70LF10727	31EE57 *	—	—	70LF-207-01	5FWC0 *	70LF24701	40D917
2"	70LF10810	31EE58 *	70LF14801	40D903	70LF10827	31EE59 *	—	—	70LF-208-01	5FWC1 *	70LF24801	40D918
	70LF-108-01	5FWA4 *	—	—	—	—	—	—	—	—	—	—
2½"	70LF10901	40D892 *	70LF14901	40D904	—	—	—	—	70LF209 01	40D909 *	70LF24901	40D919
3"	70LF10001	40D889 *	70LF14001	40D894	—	—	—	—	70LF20001	40D906 *	70LF24001	40D911
4"	70LF10A01	40D893 *	70LF14A01	40D905	—	—	—	—	70LF20A01	40D910 *	70LF24A01	40D920

** Chrome-plated brass ball.*

Bronze and Lead-Free Bronze Ball Valves, Full-Port

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F, except 2EEJ9, 2EEK1 to 2EEK9, and 2EEL3 are 77° to 500°F

2-pc. valves have RPTFE seats and solid-ball design, blowoutproof stem, and adjustable packing gland. Brass ball, except 2EEJ9 to 2EEL3 are bronze, 48XJ15 to 48XJ29 are 316 stainless steel. All valves are for use with water, oil, gas, and steam. Meet MSS-SP-110.

2EEJ9

For Use With	Item No.
Stem Extension Kit	
77C ¼ and ½ in	**1RWL2**
77C ¾ in and 1 in	**1RWK9**
77C 1 ¼ to 2 in	**1RWL1**

Pipe Size	Bronze Body, Brass Stem, Lever Handle Mfr. Model	Item No.	Bronze Body, Brass Stem, Lever Handle w/Mounting Pads Mfr. Model	Item No.	Bronze Body, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body 316 Stainless Steel Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body Lead Free Brass Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body Lead Free Brass Stem, Locking Lever Handle Mfr. Model	Item No.
FNPT x FNPT												
¼"	77C10101A	**48XH87**	7710101	**2EEJ9**	77C10127A	**48XH88**	77CLF14101A	**48XJ15**	77CLF10101A	**48XH93**	77CLF10127A	**48XJ32**
⅜"	77C10201A	**48XH89**	7710201	**2EEK1**	77C10227A	**48XH90**	77CLF14201A	**48XJ16**	77CLF10201A	**48XH94**	77CLF10227A	**48XJ33**
½"	77C10301A	**48XH83**	7710301	**2EEK2**	77C10327A	**48XH84**	77CLF14301A	**48XJ17**	77CLF10301A	**48XH95**	77CLF10327A	**48XJ34**
¾"	77C10401A	**48XH63**	7710401	**2EEK3**	77C10427A	**48XH64**	77CLF14401A	**48XJ18**	77CLF10401A	**48XH96**	77CLF10427A	**48XJ30**
1"	77C10501A	**48XH67**	7710501	**2EEK4**	77C10527A	**48XH68**	77CLF14501A	**48XJ19**	77CLF10501A	**48XH97**	77CLF10527A	**48XJ31**
1¼"	77C10601A	**48XH79**	7710601	**2EEK5**	77C10627A	**48XH81**	77CLF14601A	**48XJ20**	77CLF10601A	**48XH98**	77CLF10627A	**48XJ35**
1½"	77C10701A	**48XH75**	7710701	**2EEK6**	77C10727A	**48XH76**	77CLF14701A	**48XJ21**	77CLF10701A	**48XH99**	77CLF10727A	**48XJ37**
2"	77C10801A	**48XH71**	7710801	**2EEK7**	77C10827A	**48XH72**	77CLF14801A	**48XJ22**	77CLF10801A	**48XJ01**	77CLF10827A	**48XJ36**

Pipe Size	Bronze Body, Brass Stem, Lever Handle Mfr. Model	Item No.	Bronze Body, Brass Stem, Lever Handle w/Mounting Pads Mfr. Model	Item No.	Bronze Body, Brass Stem, Locking Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, 316 Stainless Steel Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, Lead Free Brass Stem, Lever Handle Mfr. Model	Item No.	Lead-Free Bronze Body, Lead Free Brass Stem, Locking Lever Handle Mfr. Model	Item No.
Sweat x Sweat												
⅜"	77C20201A	**48XH91**	—	—	77C20227A	**48XH92**	77CLF24201A	**48XJ23**	77CLF20201A	**48XJ02**	—	—
½"	77C20301A	**48XH85**	—	—	77C20327A	**48XH86**	77CLF24301A	**48XJ24**	77CLF20301A	**48XJ03**	77CLF20327A	**48XJ09**
¾"	—	—	7720401	**2EEK8**	77C20427A	**48XH66**	77CLF24401A	**48XJ25**	77CLF20401A	**48XJ04**	77CLF20427A	**48XJ10**
1"	77C20501A	**48XH69**	7720501	**2EEK9**	77C20527A	**48XH70**	77CLF24501A	**48XJ26**	77CLF20501A	**48XJ05**	77CLF20527A	**48XJ11**
1¼"	77C20601A	**48XH80**	—	—	77C20627A	**48XH82**	77CLF24601A	**48XJ27**	77CLF20601A	**48XJ06**	77CLF20627A	**48XJ12**
1½"	77C20701A	**48XH77**	—	—	77C20727A	**48XH78**	77CLF24701A	**48XJ28**	77CLF20701A	**48XJ07**	77CLF20727A	**48XJ13**
2"	77C20801A	**48XH73**	7720801	**2EEL3**	77C20827A	**48XH74**	77CLF24801A	**48XJ29**	77CLF20801A	**48XJ08**	77CLF20827A	**48XJ14**

Cast-Bronze Ball Valves, Full-Port

- Max. pressure: 600 psi; 150 psi steam
- Temp. range: -20° to 400°F

2-pc. design provides bubble-tight shutoff and features reinforced PTFE seat ring, blowoutproof silicon bronze stem, and high chemical resistance. Valves are suitable for high-pressure applications including compressed air, hot and cold domestic water, HVAC, and low-pressure steam. Meet MSS-SP-110, except 41E357 to 41E359.

41E349

Pipe Size	Ball Material*	Stem Material	Handle Type	Max. Pressure (psi CWP)	Mfr. Model	Item No.
FNPT x FNPT						
¼"	316 SS	316 SS	Lever	600	T5857066 ¼	**41E373**
	CPB	Silicon Bronze	Lever	600	T58570 ¼	**41E349**
⅜"	316 SS	316 SS	Lever	600	T5857066 ⅜	**41E374**
	CPB	Silicon Bronze	Lever	600	T58570 ⅜	**41E350**
½"	CPB	Silicon Bronze	Lever	250	T58570UL ½	**41E357**
	CPB	Silicon Bronze	Nib-Seal(R)	600	T58570NS ½	**41E362**
	CPB	Silicon Bronze	Locking Lever	600	T58570LL ½	**41E364**
¾"	316 SS	316 SS	Lever	600	T5857066 ¾	**41E376**
	CPB	Silicon Bronze	Lever	250	T58570UL ¾	**41E358**
	CPB	Silicon Bronze	Lever	600	T58570 ¾	**41E352**
	CPB	Silicon Bronze	Nib-Seal(R)	600	T58570NS ¾	**41E363**
	CPB	Silicon Bronze	Locking Lever	600	T58570LL ¾	**41E365**
1"	316 SS	316 SS	Lever	600	T5857066 1	**41E377**
	CPB	Silicon Bronze	Lever	250	T58570UL 1	**41E359**
	CPB	Silicon Bronze	Lever	600	T58570 1	**41E353**
	CPB	Silicon Bronze	Locking Lever	600	T58570LL 1	**41E366**
1¼"	316 SS	316 SS	Lever	600	T5857066 1-¼	**41E378**
	CPB	Silicon Bronze	Lever	600	T58570 1-¼	**41E354**
1½"	316 SS	316 SS	Lever	600	T5857066 1-½	**41E379**
	CPB	Silicon Bronze	Lever	600	T58570 1-½	**41E355**
2"	316 SS	316 SS	Lever	600	T5857066 2	**41E380**
	CPB	Silicon Bronze	Lever	600	T58570 2	**41E356**

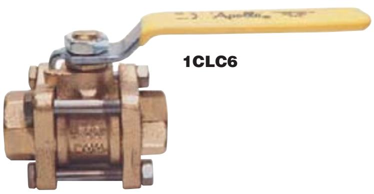
** CPB = chrome-plated brass.*

Pipe Size	Ball Material*	Stem Material	Handle Type	Max. Pressure (psi CWP)	Mfr. Model	Item No.
FNPT x Hose Cap						
½"	316 SS	316 SS	Lever	600	T5857066HC ½	**41E385**
	CPB	Silicon Bronze	Lever	600	T58570HC ½	**41E383**
¾"	316 SS	316 SS	Lever	600	T5857066HC ¾	**41E386**
	CPB	Silicon Bronze	Lever	600	T58570HC ¾	**41E384**
Sweat x Sweat						
¼"	CPB	Silicon Bronze	Lever	600	S58570 ¼	**41E342**
½"	316 SS	316 SS	Lever	600	S5857066 ½	**41E367**
	CPB	Silicon Bronze	Lever	600	S58570 ½	**41E343**
¾"	316 SS	316 SS	Lever	600	S5857066 ¾	**41E368**
	CPB	Silicon Bronze	Lever	600	S58570 ¾	**41E344**
1"	316 SS	316 SS	Lever	600	S5857066 1	**41E369**
	CPB	Silicon Bronze	Lever	600	S58570 1	**41E345**
1¼"	CPB	Silicon Bronze	Lever	600	S58570 1-¼	**41E346**
1½"	CPB	Silicon Bronze	Lever	600	S58570 1-½	**41E347**
2"	316 SS	316 SS	Lever	600	S5857066 2	**41E372**
	CPB	Silicon Bronze	Lever	600	S58570 2	**41E348**

Bronze 3-Pc. Ball Valves, Full-Port

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 450°F

With RPTFE seats and seals. Chrome-plated ball and blowoutproof stem with adjustable packing gland on chevron stem packing. For use with water, oil, gas, and low-pressure steam. Meet MSS-SP-110.



1CLC6

Pipe Size	FNPT x FNPT Mfr. Model	Item No.	Sweat x Sweat Mfr. Model	Item No.
¼ in	8210101	**1CLC6**	—	—
½ in	8210301	**1CLC8**	8220301	**1CLD9**
¾ in	8210401	**1CLC9**	8220401	**1CLE1**
1 in	8210501	**1CLD1**	8220501	**1CLE2**
1 ¼ in	8210601	**1CLD2**	8220601	**1CLE3**
1 ½ in	8210701	**1CLD3**	—	—
2 in	8210801	**1CLD4**	—	—

Bronze Ball Valves with Steam Trim

- Max. pressure: 600 psi CWP; 250 psi SWP
- Temp. range: -20° to 500°F

2-pc., standard-port industrial valves have MPTFE seats and a stainless steel ball with vented ball slot to relieve thermal expansion in valve body cavity. With blowoutproof stem, MPTFE stem packing, and adjustable packing gland. FNPT connections. For use with high-pressure water, oil, gas, and steam. Meet MSS-SP-110.

5MU10

Pipe Size	Mfr. Model	Item No.
¼ in	7014164	**5MU10**
⅜ in	7014264	**5MU28**
½ in	7014364	**5MU29**
¾ in	7014464	**5MU30**
1 in	7014564	**5MU31**
1 ¼ in	7014664	**5MU32**
1 ½ in	7014764	**5MU33**
2 in	7014864	**5MU34**

6FXY8

Pad Locking Bronze Ball Valves

- Max. pressure: 600 psi CWP; 150 psi saturated steam
- Temp. range: -20° to 450°F

2-pc. valves may be padlocked in open or closed position with no change in hardware. RPTFE seats, chrome-plated brass ball, and brass stem. Vacuum service to 29" Hg. FNPT connections. Meet MSS-SP-110 and ASTM B16.

Pipe Size	Mfr. Model	Item No.
¼ in	75-101-01	**6FXY8**
⅜ in	75-102-01	**6FXY9**
½ in	75-103-01	**6FXZ0**
¾ in	75-104-01	**6FXZ1**
1 in	75-105-01	**6FXZ2**
1 ¼ in	75-106-01	**6FXZ3**
1 ½ in	75-107-01	**6FXZ4**
2 in	75-108-01	**6FXZ5**

Bronze Ball Valves with SAE and Union Connections

1CKJ6

- Max. pressure: 600 psi CWP
- Temp. range: -20° to 450°F

With RPTFE seats and blowoutproof stem with adjustable packing gland. Meet MSS-SP-110.

SAE FEMALE

2-pc., full-port valves are machined to accept an O-ring boss connection. Drilled and tapped pad allows easy panel mounting.

FNPT UNION X FNPT BALL VALVE

Pipe union permits quick installation and arrangement changes. Standard-port with Viton O-ring.

	SAE FEMALE		FNPT UNION x FNPT BALL VALVE	
Pipe Size	Mfr. Model	Item No.	Mfr. Model	Item No.
¼ in	—	—	7030101	**1CKG8**
⅜ in	7790201	**1CKJ6**	7030201	**1CKG9**
½ in	7790301	**1CKJ7**	7030301	**1CKH1**
¾ in	7790401	**1CKJ8**	7030401	**1CKH2**
1 in	7790501	**1CKJ9**	7030501	**1CKH3**
1 ¼ in	7790601	**1CKK1**	7030601	**1CKH4**
1 ½ in	7790701	**1CKK2**	7030701	**1CKH5**
2 in	7790801	**1CKK3**	7030801	**1CKH6**

3-Way Bronze Ball Diverter Valves

1CKF9

- Max. pressure: 400 psi CWP
- Temp. range: -20° to 450°F

Combine the features of two 2-way valves—larger ports simplify tank selection and fluid transfer. Drilled and tapped for panel mounting. L-port with RPTFE seats and blowoutproof stem with adjustable packing gland. FNPT connections. Meet MSS-SP-110.

Pipe Size	Mfr. Model	Item No.
¼ in	7060101	**1CKF9**
⅜ in	7060201	**1CKG1**
½ in	7060301	**1CKG2**
¾ in	7060401	**1CKG3**
1 in	7060501	**1CKG4**
1 ¼ in	7060601	**1CKG5**
1 ½ in	7060701	**1CKG6**
2 in	7060801	**1CKG7**

6FXY0

Bronze Ball Valves with Auto Drain

- Max. pressure: 600 psi CWP, 150 psi SWP
- Temp. range: -20° to 450°F, except Pad Locking Lever models are 50° to 200°F

Standard-port valves have 2-pc. B584 bronze body with B16 brass retainer and RPTFE reinforced seats. Blowoutproof stem design with adjustable packing gland and automatic drain. Handle is zinc-plated steel. FNPT connections. Meet MSS SP-110 and ASTM B16, except 5LXU0 to 5LXU7 only meet ASTM B16.

	Lever		Pad Locking Lever		Locking Lever	
Pipe Size	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
¼ in	70-101-41	**6FXY0**	75-101-41	**6FXZ6**	701012741	**5LXU0**
⅜ in	70-102-41	**6FXY1**	75-102-41	**6FXZ7**	701022741	**5LXU1**
½ in	70-103-41	**6FXY2**	75-103-41	**6FXZ8**	701032741	**5LXU2**
¾ in	70-104-41	**6FXY3**	75-104-41	**6FXZ9**	701042741	**5LXU3**
1 in	70-105-41	**6FXY4**	75-105-41	**6FYA0**	701052741	**5LXU4**
1 ¼ in	70-106-41	**6FXY5**	—	—	—	—
1 ½ in	70-107-41	**6FXY6**	75-107-41	**6FYA2**	701072741	**5LXU6**
2 in	70-108-41	**6FXY7**	75-108-41	**6FYA3**	701082741	**5LXU7**

1CKH7

Gas Shutoff Bronze Ball Valves

- Max. pressure: 600 psi CWP; 250 psig for LP gas
- Temp. range: -20° to 450°F

Standard-port valves have RPTFE seats and meet stringent standards for a variety of gas shutoff applications, including flammable gases. Blowoutproof stem with adjustable packing gland. FNPT connections. Meet MSS-SP-110; UL Listed for LP, natural gas, heated oils, and flammable liquids.

Pipe Size	Mfr. Model	Item No.
½ in	8010301	**1CKH7**
¾ in	8010401	**1CKH8**
1 in	8010501	**1CKH9**
1 ¼ in	8010601	**1CKJ1**
1 ½ in	8010701	**1CKJ2**
2 in	8010801	**1CKJ3**
2 ½ in	8010901	**1CKJ4**
3 in	8010001	**1CKJ5**

1DZJ5

Marine Service Bronze Ball Valves

- Max. pressure: 600 psi CWP
- Temp. range: 0° to 450°F
- Stainless steel lever and stem nut

2-pc. standard-port valves have bronze body, RPTFE seats, chrome-plated ball, blowoutproof stem, and RPTFE stem and packing. Adjustable packing gland and FNPT connections. Meet WW-V-35C, Type: II, Composition: BZ, Style: 3, and MSS SP-110.

Pipe Size	Mfr. Model	Item No.
¼ in	7010110	**1DZJ5**
⅜ in	7010210	**1DZJ6**
½ in	7010310	**1DZH6**
¾ in	7010410	**1DZH7**
1 in	7010510	**1DZH8**
1 ¼ in	7010610	**1DZH9**
1 ½ in	7010710	**1DZJ1**
2 in	7010810	**1DZJ2**
2 ½ in	7010910A	**1DZJ3**
3 in	7010010	**1DZJ4**

Ball Valves with Spring Return Handle

Standard-port valves have a blowoutproof stem and adjustable packing gland. FNPT connections. Meet MSS-SP-110.

BRONZE

- Max. pressure: 600 psi CWP; 150 psi SWP
- Temp. range: -20° to 500°F

2-pc. valves have MPTFE seats. Stainless steel lever components.

316 STAINLESS STEEL

- Max. pressure: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" to 2"); 150 psi SWP
- Temp. range: -50° to 500°F

Stainless steel ball, with PTFE seats and seals.

CARBON STEEL

- Rated: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" and up)
- Temp. range: -20° to 500°F

2-pc. investment-cast valves have zinc-phosphate coating; slot-vented chrome-plated ball relieves thermal expansion. Stainless steel stem and multifill PTFE seats. Vacuum service to 29" Hg.

1CKF1

	Body Material		
Pipe Size	Bronze Item No.	316 Stainless Steel Item No.	Carbon Steel Item No.
¼ in	**1CKF1**	**3EEZ3**	—
⅜ in	**1CKF2**	**3EEZ4**	—
½ in	**1CKF3**	**3EEZ5**	**1CKN4**
¾ in	**1CKF4**	**3EEZ6**	**1CKN5**
1 in	**1CKF5**	**3EEZ7**	**1CKN6**
1 ¼ in	**1CKF6**	—	**1CKN7**
1 ½ in	**1CKF7**	**3EEZ9**	**1CKN8**
2 in	**1CKF8**	**3EFA1**	**1CKN9**

316 Stainless Steel Ball Valves with Handle Options

- Temp. range: -25° to 450°F, except 20XL93 to 20XL98 are -20° to 425°F

Stainless steel handle with vinyl grip. Bottom-loaded stem resists blowout. FNPT connections. Vacuum service to 29" Hg. 2-pc. construction and PTFE seats. Suitable for use with water, oil, and gas in most corrosive industrial environments.

Pipe Size	Full Port 600 psi CWP Lever Handle Item No.	Full Port 1,000 psi CWP Locking Lever Handle Item No.	Full Port 1,000 psi CWP Locking Oval Handle Item No.	Standard Port 2,000 psi Locking Lever Handle Item No.	Standard Port 2,000 psi CWP Locking Lever Handle Item No.
¼ in	—	1WMX9	—	—	1WMZ1
⅜ in	—	1WMY1	1WNA1	—	1WMZ2
½ in	20XL93	1WMY2	1WNA2	1WMZ3	—
¾ in	20XL94	1WMY3	—	1WMZ4	—
1 in	20XL95	1WMY4	—	—	1WMZ5
1 ¼ in	20XL96	1WMY5	—	—	1WMZ6
1 ½ in	20XL97	1WMY6	1WNA6	—	1WMZ7
2 in	20XL98	1WMY7	1WNA7	—	1WMZ8
2 ½ in	—	1WMY8	—	—	—
3 in	—	1WMY9	—	—	—

316 Stainless Steel Ball Valves

- Rated: 2000 psi CWP up to 1"; 1500 psi CWP 1¼" and up; 150 psi SWP
- Temp. range: -50° to 450°F

Valves with investment-cast stainless steel components meet the most demanding industrial applications. Integral mounting pad with drilled and tapped holes, locking handles, and blowoutproof stem with adjustable packing gland. 2-pc., standard port valves with RPTFE seats, and FNPT connections. Vacuum service to 29" Hg. For use with water, oil, gas, and low-pressure steam in most corrosive industrial environments. Meet MSS-SP-110.

Pipe Size	Item No.
¼ in	1CKR6
⅜ in	1CKR7
½ in	1CKR8
¾ in	1CKR9
1 in	1CKT1
1 ¼ in	1CKT2
1 ½ in	1CKT3
2 in	1CKT4

316 Stainless Steel Panel Mount Ball Valves

- Rated: 2000 psi CWP up to 1"; 1500 psi 1¼" and up; 150 psi SWP
- Temp. range: 0° to 400°F

Viton seals and stainless steel handle. Meet ANSI B1.20.1.

Pipe Size	FNPT x FNPT Lever Handle Item No.	FNPT x FNPT Locking Lever Handle Item No.	FNPT x MNPT Lever Handle Item No.
¼ in	20K938	20K953	20K932
⅜ in	20K941	20K954	20K933
½ in	20K944	20K955	20K934
½ in	—	—	20K937
¾ in	20K947	20K956	20K935
1 in	20K948	20K957	20K936
1 ¼ in	20K950	—	—
1 ½ in	20K951	20K959	—
2 in	20K952	—	—

Flanged Ball Valves

- Temp. range: 0° to 500°F
- Class 150 flanges

2-pc., full port valves with TFM seats and flanged connections. Locking handles. Vacuum service to 29" Hg. Meet ASME B16.34.

316 STAINLESS STEEL

- Rated: 275 psi CWP; 150 psi SWP

Adjustable stem self-compensates for wear, temperature, and pressure. For use with hydraulics, vacuum, chemicals, oil, gas, and low-pressure steam applications.

CARBON STEEL

- Rated: 285 psi CWP

Carbon steel body and 316 stainless steel ball and stem. For use with hydraulics, vacuum, oil, and low-pressure steam in noncorrosive environments.

Pipe Size	Body Material 316 Stainless Steel Item No.	Carbon Steel Item No.
1 in	1PPT5	—
1 ½ in	1PPT6	1PRB7
2 in	1PPT7	1PRB8
3 in	1PPT8	1PRB9
4 in	1PPT9	1PRC1

MILWAUKEE VALVE

Fire-Safe Stainless Steel Ball Valves

- Max. pressure: 2000 psi CWP
- Temp. range: -20° to 450°F

Unibody design without endpiece allows safe removal without exposure to a potentially dangerous pressure release. RPTFE seats and FNPT connections. Meet ASME B16.34, except Approved Vendor models also meet API 607.

Pipe Size	Approved Vendor, Full Port Item No.	Approved Vendor, Standard Port Item No.	Milwaukee Valve, Standard Port Item No.
¼ in	32H979	—	1JBW1
⅜ in	32H980	—	1JBW2
½ in	—	32H981	1JBW3
¾ in	—	32H982	1JBW4
1 in	—	32H983	1JBW5
1 ¼ in	—	32H984	1JBW6
1 ½ in	—	32H985	1JBW7
2 in	—	32H986	1JBW8

MILWAUKEE VALVE

3-Way Diverter Stainless Steel Ball Valves

- Max. pressure: 1000 psi CWP
- Temp. range: -20° to 450°F

Use to isolate process or control flow in industrial corrosive applications. 2-pc. valves with RPTFE seats and body seals. FNPT connections and blowoutproof stainless steel stem. Meet ASTM A351.

Pipe Size	Approved Vendor, Standard Port Item No.	Milwaukee Valve, Standard L Port Item No.
⅜ in	—	1JBZ8
½ in	—	1JBZ9
¾ in	—	1JCL1
1 in	32H990	1JCL2
1 ¼ in	—	1JCL3
1 ½ in	—	1JCL4
2 in	—	1JCL5

3CFU9

3CFY8

3-Pc. 316 Stainless and Carbon Steel Ball Valves

- Rated: 1000 psi CWP (¼" to 2"); 600 psi CWP (2½" to 4")
- Temp. range: 0° to 450°F

Full-port valves with RTFE glass-reinforced seats. Blowoutproof stem. Handle can be locked in open or closed position. PTFE body seals. Vacuum service to 29" Hg.

316 STAINLESS STEEL

For use with hydraulics, vacuum, chemicals, oil, gas, and low-pressure steam in corrosive environments. Meet ASTM A351 CF8M.

CARBON STEEL

Carbon steel body with 316 stainless steel ball and stem (17-4 PH stem for 2-pc. valves). All valves are for use with hydraulics, oils, and low-pressure steam in medium-pressure applications. Meet ASTM A216 WCB.

	FNPT x FNPT		Socket x Socket	
Pipe Size	316 Stainless Steel Item No.	Carbon Steel Item No.	316 Stainless Steel Item No.	Carbon Steel Item No.
¼ in	3CFU8	—	3CFW1	—
⅜ in	3CFU9	—	3CFW2	—
½ in	3CFV1	3CFX5	3CFW3	3CFY7
¾ in	3CFV2	3CFX6	3CFW4	3CFY8
1 in	3CFV3	3CFX7	3CFW5	3CFY9
1 ¼ in	3CFV4	—	3CFW6	—
1 ½ in	3CFV5	—	3CFW7	3CFZ2
2 in	3CFV6	3CFY1	3CFW8	3CFZ3
2 ½ in	3CFV7	—	—	—
3 in	3CFV8	—	—	—
4 in	3CFV9	—	—	—

Apollo Valves

Low-Pressure Carbon Steel Ball Valves

6GD36

FNPT connections.

APPROVED VENDOR 1-PC. DESIGN
- Max. pressure: 2000 psi CWP (to 1"); 1500 psi (1¼" and up); 150 psi SWP
- Temp. range: -20° to 425°F

PTFE seats; 202 stainless steel handle. For use in abrasive air or liquid applications. Meet ASTM.

APPROVED VENDOR 2-PC. DESIGN
- Max. pressure: 3000 psi CWP, 150 psi SWP
- Temp. range: -20° to 425°F

RPTFE seats; lever handle with blowoutproof stem. For use with petroleum-based water/glycol and water/oil emulsion hydraulic fluids.

APOLLO 2-PC. DESIGN
- Max. pressure: 2000 psi CWP (to 1"); 1500 psi CWP (1¼" and up); 150 psi SWP
- Temp. range: -20° to 450°F

RPTFE seats; zinc-phosphate coating with chrome-plated ball, blowoutproof stem, and adjustable packing gland. For use with hydraulics, oils, and low-pressure steam. Meet MSS-SP-110.

Pipe Size	1-Piece, Full Port Item No.	1-Piece, Standard Port Item No.	2-Piece, Full Port Item No.	Apollo 2-Piece, Standard Port Item No.
¼ in	6GD36	—	32H960	1CKK4
⅜ in	6GD37	—	32H961	1CKK5
½ in	—	6GD38	32H962	1CKK6
¾ in	—	6GD39	32H963	1CKK7
1 in	—	6GD40	32H964	1CKK8
1 ¼ in	—	6GD41	—	1CKK9
1 ½ in	—	6GD42	—	1CKL1
2 in	—	6GD43	—	1CKL2

High-Pressure Seal Weld Ball Valves

3MRD6

- Max. pressure: 3000 psi CWP
- Temp. range: 0° to 200°F

Full-port valves have Delrin seats and PTFE seals. With locking lever handle and 316 stainless steel ball and 17-4 PH stem. Antistatic design. Integral ISO actuator mounting pad. FNPT connections. Meet ASTM and NACE MR-0175 2002.

Pipe Size	316 Stainless Steel Item No.	Carbon Steel Item No.
¼ in	3MRD6	—
⅜ in	—	3MRC8
1 in	—	3MRD2

3-Way Stainless Steel Ball Valves

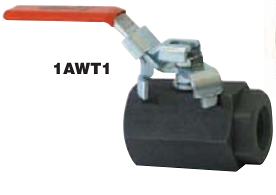
46CE46

BONOMI NORTH AMERICA, INC.

- Max. pressure: 1000 psi CWP
- Max. steam pressure: 150 psi SWP
- Temp. range: -20° to 450°F

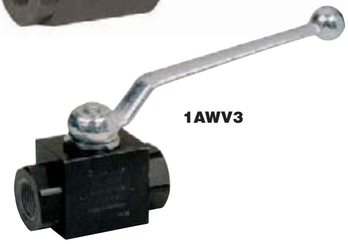
3-pc., full-port valves have 4 ball seats so that any port can be the pressurized inlet. RTFE seats with self-adjusting stem packing. 316 stainless steel body, ball, and stainless steel blowoutproof stem. Handle is 304 stainless steel with a vinyl grip. NPT connections. L Port models have a 90° flow pattern with off position. T Port models have a 90° and 180° flow path. Meet ANSI B1.20.1.

	Port	
Pipe Size	Full L Item No.	Full T Item No.
¼ in	46CE46	46CE54
⅜ in	46CE47	46CE55
½ in	46CE48	46CE56
¾ in	46CE49	46CE57
1 in	46CE50	46CE58
1 ¼ in	46CE51	46CE59
1 ½ in	46CE52	46CE60
2 in	46CE53	46CE61



1AWT1

3RAU2



1AWV3

DynaQuip

Apollo Valves

Carbon Steel Ball Valves

DYNAQUIP

Valves with SAE connection come with an O-ring boss.

MEDIUM-PRESSURE
- Rated: 3000 psi CWP; 150 psi SWP
- Temp. range: -20° to 425°F

Zinc phosphate-coated body and adjustable stem packing. 2-pc., full-port valves with RPTFE seats. For use in industrial applications with petroleum-based water/glycol and water/oil emulsion hydraulic fluids.

HIGH-PRESSURE
- Max. pressure: 7000 psi (¼" to ⅜"); 5800 psi (½" and ¾"); 4600 psi (1" and up)
- Temp. range: -20° to 175°F

Valves operate at full-rated pressure with no seat distortion. Bottom-loaded stems with maintenance-free nitrile rubber seals. 3-pc. (¼" to 1"); 2-pc. (1¼" and up); all are full-port with Delrin seats. For use with petroleum-based, water/glycol, and water/oil emulsion hydraulic fluids.

	Medium-Pressure	High-Pressure	
Pipe Size	DynaQuip FNPT x FNPT Item No.	DynaQuip FNPT x FNPT Item No.	DynaQuip SAE x SAE Item No.
Latching Lockout Handle			
¼ in	1AWT1	1AWU2	—
⅜ in	1AWT2	1AWU3	—
½ in	1AWT3	1AWU4	—
¾ in	1AWT4	1AWU5	—
1 in	1AWT5	1AWU6	1AXJ6

	Medium-Pressure			High-Pressure	
Pipe Size	DynaQuip SAE x SAE Item No.	DynaQuip FNPT x FNPT Item No.	Apollo FNPT x FNPT Item No.	DynaQuip SAE x SAE Item No.	DynaQuip FNPT x FNPT Item No.
Lever Handle					
¼ in	1AWC4	—	—	—	6CX22
⅜ in	1AWC5	—	—	—	6CX23
½ in	1AWC6	—	3RAU2	1AWV3	6CX24
¾ in	1AWC7	—	3RAU3	—	6CX25
1 in	—	4TL59	3RAU4	—	6CX26
1 ¼ in	—	—	3RAU5	—	1AWC9
1 ½ in	—	—	3RAU6	—	1AWD1
2 in	—	—	3RAU7	—	—

True Union PVC and CPVC Ball Valves

Full-port valves have a lever handle and PTFE seats. Easy to disassemble by handle for less down time for replacement and maintenance. Connection type is socket/FNPT x socket/FNPT. For use in chemical industry, swimming pool, wastewater, and other corrosive applications. Meet ASTM F1970.

Pipe Size	Max. Pressure	PVC Temp.: 32° to 140°F Item No.	CPVC Temp.: 32° to 194°F Item No.
EPDM Seals			
½ in	225 psi CWP	**4PGA5**	**4PGC4**
¾ in	225 psi CWP	**4PGA6**	**4PGC5**
1 in	225 psi CWP	**4PGA7**	**4PGC6**
1 ¼ in	225 psi CWP	**4PGA8**	**4PGC7**
1 ½ in	225 psi CWP	**4PGA9**	**4PGC8**
2 in	225 psi CWP	**4PGC1**	**4PGC9**
3 in	150 psi CWP	**4PGC2**	**4PGD1**
4 in	150 psi CWP	**4PGC3**	**4PGD2**

Pipe Size	Max. Pressure	PVC Temp.: 32° to 140°F Item No.	CPVC Temp.: 32° to 194°F Item No.
FPM Seals			
½ in	225 psi CWP	**4PGD3**	**4PGE2**
¾ in	225 psi CWP	**4PGD4**	**4PGE3**
1 in	225 psi CWP	**4PGD5**	**4PGE4**
1 ¼ in	225 psi CWP	**4PGD6**	**4PGE5**
1 ½ in	225 psi CWP	**4PGD7**	**4PGE6**
2 in	225 psi CWP	**4PGD8**	**4PGE7**
3 in	150 psi CWP	**4PGD9**	**4PGE8**
4 in	150 psi CWP	**4PGE1**	**4PGE9**

4PGA5

True Union and PVC Ball Valves

ASAHI/AMERICA

Typically used in on/off applications and with clean fluids with very little or no suspended solids. Suitable for use in chemical processing, mining, pool, power plant, transportation, and water treatment applications. Find more Asahi Ball Valves at Grainger.com. NSF-61 Approved.

Compact

COMPACT TYPE 27

Omni ball valve has a unibody construction, low-profile design with ¼-turn handle, hyperbolic flow characteristics, low pressure drop, and reliable sealing.

TRUE UNION DESIGN TYPE 21

Tapered O-ring grooves help keep the end connector O-rings in place during installation. The PTFE seat design eases field maintenance if needed. Flats on either side of the valve body allow you to keep the body from turning when the union nuts are tightened.

True Union Design

Pipe Size	Body Seal Material	Item No.
27 in L, True Union Design Type 21		
Socket x Socket, 30° to 120°F		
6 in	FKM	**49EZ84**
Compact Type 27		
⅜ in	EPDM	**49EZ58**
½ in	EPDM	**49EZ59**
¾ in	EPDM	**49EZ60**
1 in	EPDM	**49EZ61**
1 ¼ in	EPDM	**49EZ62**
1 ½ in	EPDM	**49EZ63**
2 in	EPDM	**49EZ64**
Thread, 30° to 120°F		
⅜ in	EPDM	**49EZ65**
½ in	EPDM	**49EZ66**
¾ in	EPDM	**49EZ67**
1 in	EPDM	**49EZ68**
1 ¼ in	EPDM	**49EZ69**
1 ½ in	EPDM	**49EZ70**
2 in	EPDM	**49EZ71**
True Union Design Type 21		
Socket x Socket, 30° to 120°F		
2 ½ in	EPDM	**49FA45**
	FKM	**49EZ81**
3 in	EPDM	**49FA46**
	FKM	**49EZ82**
4 in	EPDM	**49FA47**
	FKM	**49EZ83**

Pipe Size	Body Seal Material	Item No.
True Union Design Type 21 (Cont.)		
Socket x Thread, 30° to 140°F		
½ in	EPDM	**49FA39**
	FKM	**49FA51**
¾ in	EPDM	**49FA40**
	FKM	**49FA52**
1 in	EPDM	**49FA41**
1 ¼ in	EPDM	**49FA42**
1 ½ in	EPDM	**49FA43**
1 in	FKM	**49FA53**
1 ¼ in	FKM	**49FA54**
1 ½ in	FKM	**49FA55**
2 in	EPDM	**49FA44**
	FKM	**49FA56**
Thread x Thread, 30° to 120°F		
2 ½ in	EPDM	**49FA48**
3 in	EPDM	**49FA49**
4 in	EPDM	**49FA50**
True Union Design Type 21, Vent Holes for sodium hypochlorite applications		
Socket x Thread, 30° to 140°F		
1 ¼ in	FKM	**49EZ78**
1 ½ in	FKM	**49EZ79**
2 in	FKM	**49EZ80**

32H954

4YLJ7

PVC Compact Economy Ball Valves

- Max. pressure: 150 psi CWP

Light-duty ball valves can be used with Schedule 40/80 pipe and fittings in water applications. Models with EPDM seals have a 1-pc. design that requires no ball/seat adjustment. All are suitable for use in light-duty water applications. Models with PTFE seats and socket connections meet ASTM D2467; PTFE seats and FNPT connections meet ASTM D2464.

Pipe Size	Temp. Range	FNPT x FNPT Item No.	Socket x Socket Item No.
FPM Seal, PTFE Seat			
½"	14° to 122°F	**32H954**	**32H948**
¾"		**32H955**	**32H949**
1"		**32H956**	**32H950**
1¼"		**32H957**	—
1½"		**32H958**	**32H952**
2"		**32H959**	**32H953**

Pipe Size	Temp. Range	FNPT x FNPT Item No.	Socket x Socket Item No.
EPDM Seal, Santoprene Seat			
½"	34° to 140°F	**4YLG9**	**4YLG3**
½"		**4YLJ3**	**4YLH6**
¾"		**4YLH1**	**4YLG4**
¾"		**4YLJ4**	**4YLH7**
1"		**4YLH2**	**4YLG5**
1"		**4YLJ5**	**4YLH8**
1¼"		**4YLH3**	**4YLG6**
1¼"		**4YLJ6**	**4YLH9**
1½"		**4YLH4**	**4YLG7**
1½"		**4YLJ7**	**4YLJ1**
2"		**4YLH5**	**4YLG8**
2"		**4YLJ8**	**4YLJ2**

SPEARS

PVC/CPVC Ball Valves

- Max. pressure: ½" to 2" are 235 psi CWP; 2½" to 6" are 150 psi CWP, except 20RK42 is 235 psi CWP
- Temp. range: 40° to 140°F (PVC), 32° to 190°F (CPVC)

Chemical/corrosion resistant, fully sealed, feature a self-adjusting PTFE floating seat design, and a high-impact polypropylene handle. For a variety of chemical process and industrial applications including vacuum service. Designed for horizontal installation, but can be installed in a vertical up-flow only orientation. Meet ASTM F1970.

Pipe Size	PVC, FNPT x FNPT Body Seal Material	Item No.	PVC, Socket x Socket Body Seal Material	Item No.	PVC, Socket Body Seal Material	Item No.	CPVC, Socket x Socket Body Seal Material	Item No.
Compact Ball Valve, Standard Port								
½ in	FKM	**20RK01**	EPDM	**20RK09**	—	—	FKM	**20RK26**
¾ in	EPDM	**20RK02**	—	—	EPDM	**20RK10**	FKM	**20RK27**
1 in	EPDM	**20RK03**	EPDM	**20RK11**	—	—	FKM	**20RK28**
1 ½ in	EPDM	**20RK05**	—	—	—	—	—	—
2 in	EPDM	**20RK06**	EPDM	**20RK14**	—	—	FKM	**20RK31**
3 in	—	—	EPDM	**20RK15**	—	—	—	—
4 in	—	—	EPDM	**20RK16**	—	—	—	—
6 in	—	—	EPDM	**20RK17**	—	—	—	—

20RK44

Pipe Size	PVC, Socket x Socket Port	Body Seal Material	Item No.	PVC, Socket x FNPT Port	Body Seal Material	Item No.	PVC, Socket Port	Body Seal Material	Item No.	CPVC, Socket x Socket Port	Body Seal Material	Item No.	CPVC, Socket x FNPT Port	Body Seal Material	Item No.
Ball Valve															
½ in	Full	EPDM	**20RK53**	—	—	—	—	—	—	Standard	EPDM	**20RK65**	—	—	—
½ in	Standard	FKM	**20RK44**	—	—	—	—	—	—	Standard	FKM	**20RK35**	—	—	—
¾ in	Standard	EPDM	**20RK45**	Full	EPDM	**20RK54**	—	—	—	Standard	FKM	**20RK36**	Standard	FKM	**20RK66**
1 in	Full	EPDM	**20RK46**	Full	EPDM	**20RK55**	—	—	—	Standard	FKM	**20RK37**	Standard	FKM	**20RK67**
1 ¼ in	Full	EPDM	**20RK47**	Full	EPDM	**20RK56**	—	—	—	—	—	—	—	—	—
1 ½ in	Full	EPDM	**20RK48**	Full	EPDM	**20RK57**	—	—	—	—	—	—	Standard	FKM	**20RK69**
2 in	Full	EPDM	**20RK49**	Full	EPDM	**20RK58**	—	—	—	Standard	FKM	**20RK40**	Standard	FKM	**20RK70**
2 ½ in	—	—	—	—	—	—	Full	EPDM	**20RK59**	—	—	—	—	—	—
3 in	—	—	—	Full	EPDM	**20RK60**	—	—	—	Standard	FKM	**20RK42**	—	—	—
4 in	—	—	—	Full	EPDM	**20RK61**	—	—	—	—	—	—	—	—	—

4TJD4

HAYWARD

TB and TBH Series Industrial True Union PVC and CPVC Ball Valves

- Max. pressure: 250 psi CWP (¼" to 2"), 235 psi CWP (2½" to 4")

Ideal for corrosive industrial applications, these full-port valves have blowoutproof stems and reversible PTFE seats to ease valve repair. The double O-ring stem seal can provide up to twice the leakage protection of models with only a single stem seal.

Pipe Size	PVC EPDM Item No.	PVC FPM Item No.	CPVC EPDM Item No.	CPVC FPM Item No.
TB Series				
FNPT x FNPT				
2 ½ in	4TJC9	—	—	—
3 in	4TJD1	4TJF9	—	—
4 in	4TJD2	4TJG1	—	—
Socket x Socket				
2 ½ in	4TJD3	—	4TJE6	—
3 in	4TJD4	—	4TJE7	4TJH6
4 in	4TJD5	—	4TJE8	4TJH7
TBH Series				
Flanged				
½ in	466H60	466H48	466H84	466H72
¾ in	466H62	466H50	466H86	466H74
1 in	466H64	466H52	466H88	466H76
1 ¼ in	466H66	466H54	466H90	466H78
1 ½ in	466H68	466H56	466H92	466H80
2 in	466H70	466H58	466H94	466H82
Socket				
¼ in	—	466H43	—	—
⅜ in	—	466H45	—	—
TBH Series (Cont.)				
Socket x Thread				
½ in	466H59	466H47	466H83	466H71
¾ in	466H61	466H49	466H85	466H73
1 in	466H63	466H51	466H87	466H75
1 ¼ in	466H65	466H53	466H89	466H77
1 ½ in	466H67	466H55	466H91	466H79
2 in	466H69	466H57	466H93	466H81
Thread x Thread				
¼ in	—	466H44	—	—
⅜ in	—	466H46	—	—

1CMC3

+GF+

Type 375 True Union PVC and CPVC Ball Valves

- Max. pressure: 232 psi at 73°F

2-way full-port valves permit radial installation and can be used with Schedule 80 fittings and pipe. For use in chemical industry, swimming pool, aquarium, wastewater, and other corrosive applications. NSF 61 Approved.

Pipe Size	Connec. Type	Body Material: PVC EPDM Seals Item No.	PVC FPM Seals Item No.	CPVC EPDM Seals Item No.	CPVC FPM Seals Item No.
½ in	Socket/FNPT x Socket/FNPT	1CMC3	6NC66	1CMD2	1VHA6
¾ in	Socket/FNPT x Socket/FNPT	1CMC4	1VGZ8	1CMD3	1VHA8
1 in	Socket/FNPT x Socket/FNPT	1CMC5	6NC68	1CMD4	1VHB1
1 ¼ in	Socket/FNPT x Socket/FNPT	1CMC6	6NC69	1CMD5	1VHB3
1 ½ in	Socket/FNPT x Socket/FNPT	1CMC7	6NC70	1CMD6	1VHB5
2 in	Socket/FNPT x Socket/FNPT	1CMC8	—	1CMD7	1VHB7
2 in	Socket/FNPT x Socket/FNPT	—	6NC71	—	—
3 in	Socket x Socket	1CMC9	—	—	—
4 in	Socket x Socket	1CMD1	—	—	—

SPEARS

True Union PVC and CPVC Ball Valves with Locking Handle

3ELZ1

- Max. pressure: 235 psi at 73°F
- Temp. range: 73° to 140°F

Compact, ¼-turn shutoff valves are for industrial and chemical processing applications. Full-port style with PTFE seats and locking polypropylene handles. ASTM F 1970 and NSF Approved.

Pipe Size	PVC, EPDM Seals Item No.	CPVC, FPM Seals Item No.
Socket/FNPT x Socket/FNPT		
½ in	3ELZ1	3EMA2
¾ in	3ELZ2	3EMA3
1 in	3ELZ3	3EMA4
1 ¼ in	3ELZ4	—
1 ½ in	3ELZ5	3EMA6
2 in	3ELZ6	3EMA7
Socket x Socket		
3 in	3ELZ7	3EMA8
4 in	3ELZ8	—

Kynar Ball Check Valves

- Max. temp.: 180°F
- Max. water pressure: 150 psi @ 73°F
- Seal & seat material: FKM

Pipe or Tube Size	Flow	Connec. Type	Item No.
½"	5 gpm	FNPT	1CRT7
¾"	10 gpm	FNPT	1CRT8
¾"	10 gpm	Slip Socket	1CRT2
1"	19 gpm	FNPT	1CRT9
1"	19 gpm	Slip Socket	1CRT3
1½"	5 gpm	Slip Socket	1CRT1

1CRT7

+GF+

Type 546 True Union Ball Valves

2KE46

- Max. pressure: 232 psi at 73°F

2-way full-port valves can be radial installed and feature a breakaway stem. Can be used with Schedule 80 pipe and fittings. Valves can be actuated, and handle has a molded-in wrench for access to valve components. With chemical-resistant EPDM or FPM seals. Union connections. For use in the chemical industry and in swimming pool, aquarium, wastewater, and other corrosive applications. Polypropylene meet ASTM D 4101; PVC and CPVC meet ASTM 1970-01, ASTM D1784, USP Class VI, FDA, NSF 61.

Pipe Size	Polypropylene Item No.
FNPT x FNPT, EPDM Seals	
½ in	1CLU8
1 ¼ in	1CLV2
1 ½ in	1CLV3
2 in	1CLV4

Pipe Size	Polypropylene Item No.
FNPT x FNPT, FPM Seals	
½ in	1CLV6
¾ in	1CLV7
1 in	1CLV8
2 in	1CLW2

Pipe Size	PVC Item No.	CPVC Item No.
Socket/FNPT x Socket/FNPT, EPDM Seals		
⅜ in	2KE46	3TNR3
½ in	2KE47	2KE52
¾ in	2KE48	2KE53
1 ¼ in	—	3TNR4
1 ½ in	2KE50	3TNR5
1 in	2KE49	2KE54
2 in	2KE51	3TNR6

6FXL0

HAYWARD

TBZ Series Industrial True Union PVC and CPVC Z-Ball Valves

Ideal for sodium hypochlorite service, these valves feature a drilled ball for venting gases and keep inner valve surfaces wetted. Black handle acts as an identifier. FPM seals only with PTFE seats and double O-ring stem seal. 466J56 to 466J79 feature a lock-out/tag-out plate that can accommodate up to 4 locks. All models meet NSF and ASTM, except 466J56 to 466J79 meet NSF/ANSI 61.

Pipe Size	PVC Temp. Range (°F)	PVC Item No.	CPVC Temp. Range (°F)	CPVC Item No.
Flanged, Max. Press.: 250 psi CWP				
½ in	0 - 140	466J57	0 - 160	466J69
¾ in	0 - 140	466J59	0 - 160	466J71
1 in	0 - 140	466J61	0 - 160	466J73
1 ¼ in	0 - 140	466J63	0 - 160	466J75
1 ½ in	0 - 140	466J65	0 - 160	466J77
2 in	0 - 140	466J67	0 - 160	466J79
Socket x Socket, Max. Press.: 235 psi CWP				
2 ½ in	34 - 140	6FXJ7	34 - 180	6FXK9
3 in	34 - 140	6FXJ9	34 - 180	6FXL0
4 in	34 - 140	6FXK1	34 - 180	6FXL2
Socket x Thread, Max. Press.: 250 psi CWP				
½ in	0 - 140	466J56	0 - 160	466J68
¾ in	0 - 140	466J58	0 - 160	466J70
1 in	0 - 140	466J60	0 - 160	466J72
1 ¼ in	0 - 140	466J62	0 - 160	466J74
1 ½ in	0 - 140	466J64	0 - 160	466J76
2 in	0 - 140	466J66	0 - 160	466J78

1-Pc. and 3-Pc. Polypropylene Bolted Ball Valves

BANJO Liquid Handling Products

Fiberglass-reinforced bolted valves for heavy-duty industrial applications. PTFE seats allow free movement of self-aligning, diamond-tuned polypropylene ball for precise alignment. Self-lubricating PTFE stem, bushings, and ball seats won't stick or bind. With FKM seals. FNPT connections. For use in fluid-handling applications with fertilizer, herbicides, and insecticides, as well as with industrial acids, solvents, liquid waste, wastewater, and cooling water.

1MKK1

1MKK7

3DTG3

2-WAY
- Max. temp.: 150°F
- 3-pc. valve structure

3-WAY
- Max. pressure: 100 psi
- Temp. range: -20° to 150°F
- 1-pc. valve structure

Full-port, right or left directional flow valves. Bottom-load valves can be turned off to stop flow. Side-load valves cannot be turned off.

Pipe Size	Port	2-Way Max. Pressure	2-Way Item No.	3-Way Bottom Load Max. Pressure	3-Way Bottom Load Item No.	3-Way Side Load Max. Pressure	3-Way Side Load Item No.
½"	Standard	150 psi CWP	**1MKK1**	—	—	—	—
¾"	Full	—	—	150 psi CWP	**3DTF3**	100 psi CWP	**3DTF8**
¾"	Standard	150 psi CWP	**1MKK2**	—	—	—	—
1"	Full	150 psi CWP	**1MKK3**	150 psi CWP	**3DTF4**	100 psi CWP	**3DTF9**
1¼"	Full	150 psi CWP	**1MKK4**	150 psi CWP	**3DTF5**	100 psi CWP	**3DTG1**
1½"	Full	—	—	150 psi CWP	**3DTF6**	100 psi CWP	**3DTG2**
1½"	Standard	150 psi CWP	**1MKK5**	—	—	—	—
2"	Full	150 psi CWP	**1MKK7**	100 psi CWP	**3DTF7**	100 psi CWP	**3DTG3**
2"	Standard	150 psi CWP	**1MKK6**	—	—	—	—
3"	Full	100 psi CWP	**1MKK8**	—	—	—	—
4"	Standard	75 psi CWP	**1MKK9**	—	—	—	—

Actuated Ball Valves

DynaQuip

- Valve temp. range: -20° to 400°F

Compact, direct-mount valves provide accurate alignment. Anticorrosive coating. RTFE seats. 3-way models are ideal for diverter-type applications; 3-pc. models permit easy in-line maintenance. All valves have NEMA 4X enclosures.

PNEUMATIC
- Actuator inlet pressure: 80 psi or greater
- Actuator temp. range: -4° to 176°F

Excellent for continuous rapid cycling or hazardous conditions. Hard anodized aluminum housing. Integral 120VAC, 60 Hz, NAMUR-mount solenoid with three ¼" NPT ports.

ELECTRONIC
- Actuator temp. range: -15° to 140°F

Feature reversible motors, terminal strip, manual override, and a hardened precision gear train. ½" to 2" can be wired in parallel. 50% duty cycle. 3" have 2 extra SPDT limit switches, 30% duty cycle. General cycle times: 2½ sec. for ½" to 1"; 6½ to 15 sec. for 2"; 15 to 22 sec. for 3". The 12-24VAC/VDC models do not have a manual override.

SOLENOID AIR CONTROL VALVES

Standard NAMUR direct-mounted pilot solenoids can provide electronic control of the inlet air. Solenoids efficiently pressurize and exhaust the pneumatic actuator piston compartments allowing the actuator to cycle.

Pipe Size	Max. Pressure	Pneumatic Actuated Ball Valve: Double Acting Item No.	Spring Return Item No.	Spring Return - Fail Close Item No.
316 Stainless Steel, Full Port, 2-Piece, Inline, FNPT				
¼ in	1000 psi CWP	—	**4TL09**	—
½ in		**4TL06**	**4TL10**	—
¾ in		**4TL07**	**4TL11**	—
1 in		**4TL08**	**4TL12**	—
1 ½ in		**4YM64**	**4YM66**	—
2 in		**4YM65**	**4YM67**	—
Brass, Standard L Port, 1-Piece, Three-Way, FNPT				
½ in	400 psi CWP	—	—	**1AWK9**
¾ in		—	—	**1AWL1**
1 in		**1AWK2**	—	**1AWL2**
1 ¼ in		—	—	**1AWL3**
1 ½ in		—	—	**1AWL4**
2 in		**1AWK5**	—	**1AWL5**
3 in		**1AWK6**	—	—
Bronze, Full Port, 3-Piece, Inline, FNPT				
½ in	600 psi CWP	**3TPH3**	—	**3TPJ2**
¾ in		**3TPH4**	**3TPJ3**	—
1 in		**3TPH5**	**3TPJ4**	—
1 ½ in		—	**3TPJ6**	—
2 in		**3TPH8**	**3TPJ7**	—
Forged Brass, Full Port, 2-Piece, Inline, FNPT				
½ in	600 psi CWP	**6CX04**	**6CX10**	—
¾ in		**6CX05**	**6CX11**	—
1 in		**6CX06**	—	**6CX12**
1 ¼ in		**6CX07**	**6CX13**	—
1 ½ in		**6CX08**	**6CX14**	—
Lead Free Brass, Full Port, 2-Piece, Inline, FNPT				
½ in	600 psi CWP	**46Z612**	**46Z617**	—
¾ in		**46Z613**	**46Z618**	—
1 in		**46Z614**	**46Z619**	—
1 ¼ in		**46Z615**	—	—
1 ½ in		**46Z616**	**46Z621**	—
2 in		**6CX09**	**6CX15**	—
3 in		**1AWJ5**	—	**1AWJ6**
Stainless Steel, Full Port, 3-Piece, Inline, FNPT				
¼ in	1000 psi CWP	**1AWP1**	—	**1AWR1**
⅜ in		**1AWP2**	—	**1AWR2**
½ in		**1AWP3**	—	**1AWR3**
¾ in		**1AWP4**	—	**1AWR4**
1 in		**1AWP5**	—	**1AWR5**
1 ¼ in		**1AWP6**	—	**1AWR6**
1 ½ in		**1AWP7**	—	**1AWR7**
2 in		**1AWP8**	—	**1AWR8**
3 in		**1AWP9**	—	**1AWR9**
Stainless Steel, Standard L Port, 1-Piece, Three-Way, FNPT				
½ in	1000 psi CWP, 125 psi Steam	**1AWL9**	—	**1AWN5**
¾ in		**1AWN1**	—	**1AWN6**
1 in		**1AWN2**	—	**1AWN7**
1 ½ in	125 psi Steam, 800 psi CWP	**1AWN3**	—	—
2 in		**1AWN4**	—	**1AWN9**

Pilot Port Size	Operational Pressure Range	Ambient Temp. Range	Valve Actuator / Return	Voltage	Item No.
Solenoid Air Control Valve					
¼ in NPT	37 to 150 psi	14° to 122°F	Solenoid / Spring	12V DC	**46Z648**
¼ in NPT	22 to 116 psi	23° to 140°F	Solenoid / Spring	24V DC	**46Z647**

Pipe Size	Max. Pressure	Electronic Actuated Ball Valve: 120V AC Item No.	12-24V AC/V DC Item No.
316 Stainless Steel, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
¼ in	1000 psi CWP	**4TL01**	**1AWF7**
½ in		**4TL02**	**1AWF8**
¾ in		**4TL03**	**1AWF9**
1 in		**4TL04**	**1AWG1**
1 ½ in		**4YM62**	**1AWG2**
2 in		**4YM63**	—
3 in		**1AWF6**	—
316 Stainless Steel, Full Port, 3-Piece, 2-Way, FNPT x FNPT			
¼ in	1000 psi CWP	**1AWH2**	—
½ in		**1AWH4**	—
¾ in		**1AWH5**	—
1 in		**1AWH6**	—
1 ¼ in		**1AWH7**	—
1 ½ in		**1AWC1**	—
2 in		**1AWC2**	—
3 in		**1AWC3**	—
Brass, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
½ in	600 psi CWP	**6CX16**	**1AWD4**
¾ in		**6CX17**	**1AWD5**
1 in		**6CX18**	**1AWD6**
1 ¼ in		**6CX19**	**1AWD7**
1 ½ in		**6CX20**	**1AWD8**
2 in		**6CX21**	**1AWD9**
3 in		**1AWD3**	—
Brass, Standard L Port, 2-Piece, 3-Way, FNPT x FNPT x FNPT			
¼ in	400 psi CWP	—	**1AWE8**
⅜ in		—	**1AWE9**
½ in		**1AWE3**	**1AWF1**
¾ in		**1AWE4**	**1AWF2**
1 in		**1AWE5**	**1AWF3**
1 ¼ in		**1AWE6**	**1AWF4**
1 ½ in		**1AWE7**	**1AWF5**
2 in		**1AWB8**	—
3 in		**1AWB9**	—
Bronze, Full Port, 3-Piece, 2-Way, FNPT x FNPT			
½ in	600 psi CWP	**3TPF5**	—
¾ in		**3TPF6**	—
1 in		**3TPF7**	—
1 ¼ in		**3TPF8**	—
1 ½ in		**3TPF9**	—
2 in		**3TPG1**	—
Lead Free Brass, Full Port, 2-Piece, 2-Way, FNPT x FNPT			
½ in	600 psi CWP	**46Z622**	**46Z627**
¾ in		**46Z623**	**46Z628**
1 in		**46Z624**	**46Z629**
1 ¼ in		**46Z625**	**46Z630**
1 ½ in		**46Z626**	**46Z631**

Item	Includes	Item No.
Valve Position Limit Switch Kit		
Limit Switch Kit	Mounting Hardware, Valve Position Limit Switch	**44F209**
Solenoid Pilot Valve, 115VAC	Ready-to-Mount Pilot Soleniod	**44F197**
Solenoid Pilot Valve, 24VAC	Replacement Pilot Soleniod, Screws (4)	**44F207**

46Z612

4TL04

44F209

+GF+

PVC Actuated Ball Valves

- Max. pressure: 230 psi CWP
- Required air pressure for pneumatic valves: 60 to 100 psi
- Temp. range: 14° to 140°F

Full-port true-union valves have PTFE seats and EPDM seals. Socket/threaded connections. Electrically-actuated valves have a 40% duty cycle.

3GXJ4

Pipe Size	Pneumatic—Spring Return - Fail Close Item No.	Electric—100-230V AC Item No.
½ in	3GXJ4	—
¾ in	3GXJ5	3GXL5
1 in	3GXJ6	3GXL6
1¼ in	—	3GXL7
1½ in	3GXJ8	—
2 in	3GXJ9	3GXL9

HAYWARD

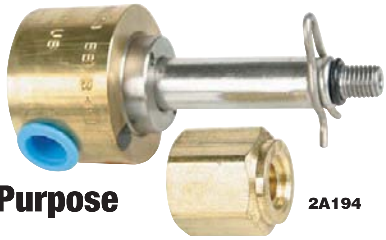
Electrically Actuated EATB and EAUTB Series True Union Ball Valves

26X037

- Max. pressure: 250 psi CWP
- Temp. range: 40° to 140°F

Socket and threaded end connections. Valve is PVC construction with PTFE seats. EATB Series has a 115VAC electric actuator. EAUTB Series has an EAU actuator with a prewired terminal strip and 1 auxiliary limit switch. All valves meet NSF/ANSI 372, PVC Cell Class 12454 per ASTM D1784, UL/CSA Listed Motor, Thermoplastic NEMA 4/4X enclosure.

Pipe Size	EATB Series EPDM Seal Item No.	EAUTB Series EPDM Seal Item No.	EAUTB Series FPM Seal Item No.
½ in	26X028	26X033	26X038
¾ in	26X029	26X034	26X039
1 in	26X030	26X035	26X040
1 ½ in	26X031	26X036	26X041
2 in	26X032	26X037	26X042



2A194

Dayton

3-Way General-Purpose Solenoid Valves

- Max. fluid temp.: 180°F
- Buna N gaskets
- Mount in any position

Direct-acting valves are intended for air and water applications. All have 3 ports and 2 orifices that alternate between applying pressure to and exhausting pressure from actuators and cylinders. Rated for continuous duty. Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

WARNING: Not for use in explosive atmospheres.

Pipe Size	Orifice Dia.	Coefficient of Volume†	Min. Oper. Press. Differential	Max. Oper. Press. Differential Water	Safe Working Water Pressure	Item No.
Normally Closed, Brass Body						
⅛ in	1⁄16 in	0.12/0.09	0 psi	160 psi	500 psi	**2CZY8**
¼ in	3⁄32 in	0.22/0.17	0 psi	90 psi	500 psi	**2CZY9**
Normally Closed, Stainless Steel Body						
¼ in	1⁄16 in	0.12/0.09	0 psi	160 psi	500 psi	**3A426**
	3⁄32 in	0.22/0.17	0 psi	90 psi	500 psi	**3A429**
Normally Open, Stainless Steel Body						
¼ in	1⁄16 in	0.12/0.09	0 psi	125 psi	500 psi	**3A427**
	3⁄32 in	0.22/0.17	0 psi	75 psi	500 psi	**3A430**
Universal, Brass Body						
¼ in	3⁄64 in	0.05/0.06	0 psi	125 psi	500 psi	**4A703**
	1⁄16 in	0.12/0.09	0 psi	100 psi	500 psi	**2A194**
	3⁄32 in	0.22/0.17	0 psi	40 psi	500 psi	**4A704**

† Coefficient of Volume: the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position.

BANJO Liquid Handling Products

Electrically Actuated Polypropylene Ball Valves

3ELX6

- Max. pressure: 150 psi CWP
- Temp. range: 0° to 150°F

3-pc. valves have self-lubricating PTFE seats, EPDM seals, and 316 stainless steel ball, stem, and valve hardware. Include open/closed valve indicator. Chemical-resistant construction makes these valves ideal for fertilizer, herbicide, and insecticide handling, as well as for chemical and acid handling in many industrial, pulp and paper, and process applications. FNPT connections.

Pipe Size	Port	12V DC Item No.	24V DC Item No.
¾ in	Full	3ELX3	3ELX8
1 in	Full	3ELX4	3ELX9
1 ½ in	Full	3ELX5	3ELY1
2 in	Standard	3ELX6	—
2 in	Full	3ELX7	—

2CZZ6

1A582

2A199

2DAA1

Dayton

2-Way Steam Solenoid Valves

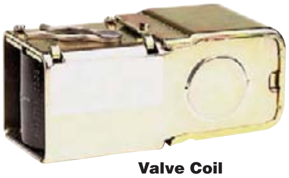
- Mount in any position

High-temperature gaskets can be used in hot water or steam applications. Use with Class H insulation coils (sold separately). Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

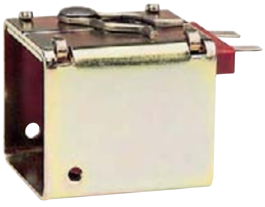
WARNING: Not for use in explosive atmospheres.

Pipe Size	Orifice Dia.	Coefficient of Volume†	Min. Oper. Press. Differential	Max. Oper. Press. Differential Water	Safe Working Water Pressure	Safe Working Steam Pressure	Steam Capacity	Seal Material	Item No.
Normally Closed, Brass Low Pressure Steam - Buna Gaskets - Max. Fluid Temp.: 250 °F**									
⅛ in	5⁄32 in	0.48	0 psi	100 psi	500 psi	100 psi	47 lb/hr	—	**2CZZ6**
⅜ in	⅜ in	2.2	2 psi	200 psi	350 psi	350 psi	216 lb/hr	EPM	**2DAA2**
	⅝ in	2.8	0 psi	100 psi	300 psi	15 psi	129 lb/hr	EPM	**4A776**
	⅝ in	2.8	5 psi	100 psi	300 psi	15 psi	129 lb/hr	EPM	**4A694**
½ in	⅝ in	3.6	0 psi	100 psi	300 psi	15 psi	165 lb/hr	EPM	**1A582**
	⅝ in	3.6	5 psi	100 psi	300 psi	15 psi	165 lb/hr	EPM	**4A695**
¾ in	¾ in	5.5	0 psi	100 psi	300 psi	15 psi	253 lb/hr	EPM	**1A583**
	¾ in	5.5	5 psi	100 psi	300 psi	15 psi	253 lb/hr	EPM	**4A696**
Normally Closed, Brass High Pressure Steam - PTFE Gaskets - Max. Fluid Temp.: 400 °F**									
¼ in	⅛ in	0.34	0 psi	150 psi	500 psi	500 psi	33.3 lb/hr	PTFE	**2A197**
	5⁄32 in	0.48	0 psi	100 psi	500 psi	500 psi	47 lb/hr	PTFE	**2CZZ4**
⅜ in	⅜ in	2.2	2 psi	300 psi	350 psi	350 psi	594 lb/hr	PTFE	**4A715**
	½ in	3.5	5 psi	150 psi	300 psi	300 psi	864 lb/hr	PTFE	**4A702**
½ in	½ in	3.5	5 psi	150 psi	300 psi	300 psi	864 lb/hr	PTFE	**2A198**
¾ in	¾ in	7.0	5 psi	150 psi	300 psi	300 psi	1,729 lb/hr	PTFE	**2A199**
1 in	1 in	13.0	5 psi	150 psi	300 psi	300 psi	3,210 lb/hr	PTFE	**2A200**
1 ¼ in	1 ¼ in	16.0	5 psi	150 psi	300 psi	300 psi	3,951 lb/hr	PTFE	**2A201**
1 ½ in	1 ½ in	25.0	5 psi	150 psi	300 psi	300 psi	6,174 lb/hr	PTFE	**2A202**
Normally Closed, Stainless Steel High Pressure Steam - PTFE Gaskets - Max. Fluid Temp.: 400 °F**									
¼ in	3⁄64 in	0.05	0 psi	150 psi	500 psi	500 psi	11.8 lb/hr	PTFE	**2DAA1**

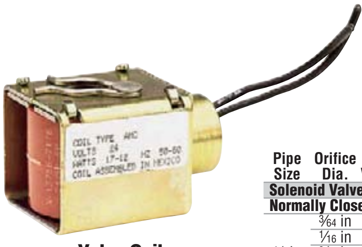
*† Coefficient of Volume: the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position. ** Do not exceed temperature limitations.*



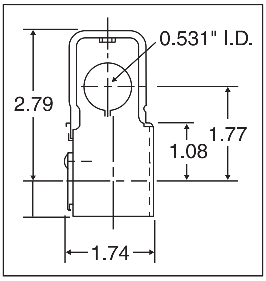
Valve Coil
Key A
6X542



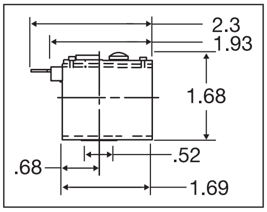
Valve Coil
Key B
3A439



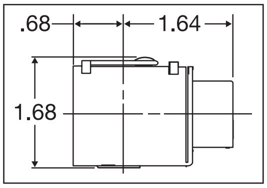
Valve Coil
Key C
4A705



A.
Junction Box 7/8" Dia. Conduit Hole



B.
1/4" Spade Terminal



C.
1/2" Conduit Connection

Solenoid Valve
1A576

Dayton®

Solenoid Valves and Valve Coils

Solenoid Valves—Feature 2-way design and have Buna N gaskets (do not exceed temperature limitations). To prevent backflow, add a check valve to the system (sold separately on page 2901). Valves that have OPD minimums beginning with 0 (e.g., 0 to 300 psi) are direct-acting and will open and close when line pressures are within minimum and maximum psi ranges. Valves that have OPD minimums starting at 2 or 5 (e.g., 5 to 150 psi) are designated pilot-operated and will open and close only if pressure differential between the inlet and outlet is within OPD ranges. Normally closed valves will open when energized. Normally open valves will close when energized. Meet Fluid Control Institute, Inc. and National Fluid Power Association (NFPA) standards. UL Listed and CSA Certified.

- Max. fluid temp.: 180°F
- Mount in any position

WARNING: Not for use in hazardous atmospheres.

Note: Maximum suggested cycling rate is 10 times per min.

Pipe Size	Orifice Dia.	Cv of Volume†	Min. Operating Pressure Differential*	Max. Operating Pressure Differential Air/ Inert Gas	Safe Working Water Pressure	Item No.
Solenoid Valve Less Coil						
Normally Closed, Brass						
1/8 in	3/64 in	0.05	0 psi	500 psi	500 psi	**2CZZ3**
	1/16 in	0.12	0 psi	500 psi	500 psi	**3A422**
	3/32 in	0.22	0 psi	300 psi	500 psi	**1A574**
	1/8 in	0.34	0 psi	150 psi	500 psi	**2CZZ1**
	5/32 in	0.48	0 psi	100 psi	500 psi	**2CZZ5**
1/4 in	3/32 in	0.22	0 psi	300 psi	500 psi	**2CZZ8**
	1/8 in	0.34	0 psi	150 psi	500 psi	**1A575**
	5/32 in	0.48	0 psi	100 psi	500 psi	**2CZZ2**
	1/4 in	0.7	0 psi	20 psi	500 psi	**2CZZ9**
	1/4 in	1.2	2 psi	200 psi	350 psi	**3A433**
3/8 in	1/4 in	1.2	2 psi	200 psi	350 psi	**4A699**
	3/8 in	1.7	0 psi	10 psi	500 psi	**2CZZ7**
	3/8 in	2.2	2 psi	200 psi	350 psi	**4A700**
	1/2 in	3.5	5 psi	250 psi	300 psi	**4A701**
	5/8 in	2.8	0 psi	100 psi	300 psi	**4A697**
	5/8 in	2.8	5 psi	150 psi	300 psi	**1A576**
1/2 in	1/2 in	3.5	5 psi	250 psi	300 psi	**3A435**
	5/8 in	3.6	0 psi	100 psi	300 psi	**3A434**
	5/8 in	3.6	5 psi	150 psi	300 psi	**1A577**
3/4 in	3/4 in	5.5	0 psi	100 psi	300 psi	**3A436**
	3/4 in	5.5	5 psi	125 psi	300 psi	**1A578**
	3/4 in	7.0	5 psi	250 psi	300 psi	**3A437**
1 in	1 in	13.0	5 psi	125 psi	250 psi	**1A579**
	1 in	13.0	5 psi	250 psi	300 psi	**3A438**
1 1/4 in	1 1/4 in	16.0	5 psi	250 psi	300 psi	**1A580**
1 1/2 in	1 1/2 in	25.0	5 psi	250 psi	300 psi	**1A581**
Normally Closed, Stainless Steel						
1/8 in	1/16 in	0.12	0 psi	500 psi	500 psi	**4A688**
	3/32 in	0.22	0 psi	300 psi	500 psi	**3A423**
	5/32 in	0.48	0 psi	100 psi	500 psi	**4A690**
1/4 in	3/64 in	0.05	0 psi	500 psi	500 psi	**4A691**
	1/16 in	0.12	0 psi	500 psi	500 psi	**3A425**
	3/32 in	0.22	0 psi	300 psi	500 psi	**4A692**
	1/8 in	0.34	0 psi	150 psi	500 psi	**2A195**
	5/32 in	0.48	0 psi	100 psi	500 psi	**3A431**
	3/16 in	0.56	0 psi	60 psi	500 psi	**4A693**
	1/4 in	0.7	0 psi	20 psi	500 psi	**3A432**
Normally Open, Stainless Steel						
1/4 in	1/16 in	0.09	0 psi	150 psi	500 psi	**3A424**
	3/32 in	0.17	0 psi	75 psi	500 psi	**3A428**

Solenoid Valve Coils—For use with Dayton® solenoid valves on this page only. Continuous duty coils, for Class F, H, and B insulation with NEMA coil enclosure. Coils and valves, when assembled, are UL Listed. For steam valves, use Class H coil. 12 and 24VDC coils have integral pulse modulation circuit for the same OPD ratings as AC coils. CSA Certified, except 3PU19 and 3PU18 are UL Listed only.

WARNING: Not for use in hazardous atmospheres.

Key	Coil Insulation Class**	Voltage 120V AC Item No.	12V DC Item No.	208/240V AC Item No.	24V AC Item No.	24V DC Item No.
Solenoid Valve Coils						
A	F	**6X543**	**3PU19**	**6X544**	**6X542**	**3PU18**
A	H	**2A204**	—	**2A205**	**2A203**	—
B	B	**3A440**	—	**3A441**	—	—
C	F	**4A706**	—	**4A707**	**4A705**	—
B	F	—	—	—	**3A439**	—

Voltage	Pipe Size NPT	Inrush VA	Holding VA	Holding Watts
Solenoid Valve Coils				
12VDC	All	60	5	4.0
120VAC	1/8"	23	19	9.0
	1/4"	28	19	9.0
	3/8", 1/2", 3/4"	57	19	8.5
	1"	29	19	8.5
	1-1/4", 1-1/2"	23	19	9.0
208/240VAC	1/8"	26	19	9.0
	1/4"	29	19	9.0
	3/8", 1/2", 3/4"	60	24	10.6
	1"	31	24	10.6
	1-1/4", 1-1/2"	31	19	9.0
24VAC	1/8"	26	18	8.3
	1/4"	30	18	8.3
	3/8", 1/2", 3/4"	53	16	7.5
	1"	27	16	7.5
	1-1/4", 1-1/2"	24	18	8.3
24VDC	All	48	4	4.0

† Coefficient of Volume (Cv): the amount of water in gpm at standard connections (60°F, specific gravity = 1) which will pass through the valve with a 1 psi pressure drop and the valve in the full-open position. * OPD—Operating Pressure Differential. **NEMA Class F (311°F), Class H (356°F), Class B (266°F).

Solenoid Valve Rebuild Kits

Dayton®

Replacement parts for Dayton solenoid valves. All come with plunger assembly, gasket, spring, and instructions. See Grainger.com for a complete listing of kit contents.

Description	For Use With	Item No.
Diaphragm Assembly	3A434, 3A436, 4A697	**2DAA5**
	1A576, 1A577	**2DAA6**
	1A582, 1A583, 4A776	**2DAC9**
	1A578	**2DAD1**
	1A579	**2DAD2**
	4A694, 4A695	**2DAD3**
	4A696	**2DAD4**
O-Ring, Spanner Wrench	2CZY8, 2CZY9, 3A426, 3A429	**2DAA3**
	1A574, 2CZZ1, 2CZZ3, 2CZZ5, 3A422, 3A423, 4A688, 4A689, 4A690	**2DAA4**
	2CZZ6	**2DAA7**
	2CZZ7	**2DAA8**
	1A575, 2A195, 2A196, 3A425, 3A431, 4A691, 4A692, 4A693	**2DAA9**
	2CZZ2, 2CZZ8, 2CZZ9, 3A432	**2DAB1**
	2A194, 4A703, 4A704	**2DAB4**
	3A427, 3A430	**2DAB5**
	3A424, 3A428	**2DAC8**
	2A197, 2CZZ4, 2DAA1	**2DAD5**

Description	For Use With	Item No.
Piston Assembly, Piston Ring	2DAA2	**2DAB2**
	3A433, 4A699, 4A700	**2DAB3**
	2A198, 4A702	**2DAB6**
	2A199	**2DAB7**
	2A200	**2DAB8**
	2A201	**2DAB9**
	2A202	**2DAC1**
	3A435, 4A701	**2DAC2**
	3A437	**2DAC3**
	3A438	**2DAC4**
	1A580	**2DAC5**
	1A581	**2DAC6**
	4A715	**2DAC7**

2DAD1

2DAA3

Scan. Order. Done.
Details on page A1.

ASCO Red-Hat®

2- and 3-Way General-Purpose Solenoid Valves

1-pc. molded epoxy coil enclosures have built-in ½" NPT conduit hubs with strain relief. For information on standards, go to Grainger.com.

2-Way—Use high-flow valves for liquid, corrosive, and air/inert gas service applications, including car washes, air compressors, pumps, laundry equipment, and industrial water control.

3-Way—Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from valve actuators and single-acting cylinders.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max. Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	110/120V AC Max. Operating Pressure Diff. Air/Inert Gas	Water	Light Oil	Item No
2-Way/2-Position											
Normally Open, Brass Body - DIN Connection - NBR Gaskets											
1/2 in	5/8 in	4	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G034	0 psi	150	150	125 psi	**4ELH7**
3/4 in	3/4 in	5	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G035	0 psi	150	150	125 psi	**4ELJ1**
Normally Open, Brass Body - FKM Gaskets											
3/4 in	3/4 in	5.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G035V	0 psi	150 psi	150 psi	125 psi	**4EKZ3**

6ZAK7

4ELF6

6ZAK4

3UL13

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120V AC Max. Operating Pressure Diff. Air/Inert Gas	Water	Light Oil	Item No	24VDC Max. Operating Pressure Diff. Air/Inert Gas	Water	Light Oil	Item No
2-Way/2-Position															
Normally Closed, 22mm, Brass Body, DIN Connection - FKM Gaskets															
1/8"	1/16 in	0.08	F	4, 4X	180 °F	SC8256A002V	0 psi	—	—	—	—	220 psi	220 psi	220 psi	**4ELC5**
1/8"	7/64 in	0.19	F	4, 4X	180 °F	SC8256B045V	0 psi	—	—	—	—	25 psi	25 psi	25 psi	**4ELC4**
Normally Closed, Brass Body, DIN Connection - NBR Gaskets															
1/4"	5/32 in	0.52	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8262H202E	0 psi	210 psi	200 psi	145 psi	**6ZAK7**	—	—	—	—
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G093	0 psi	150 psi	150 psi	Not Rated	**4ELF6**	—	—	—	—
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G001	5 psi	200 psi	150 psi	135 psi	**6FAY8**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	SC8210G094	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**4ELF7**
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	SC8210G002	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**4EKR7**
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G094	0 psi	150 psi	150 psi	Not Rated	**4EKR5**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G002	5 psi	200 psi	150 psi	135 psi	**4ELG6**	—	—	—	—
3/4"	3/4 in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G095	0 psi	150 psi	150 psi	Not Rated	**4ELH3**	—	—	—	—
3/4"	3/4 in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G009	5 psi	125 psi	125 psi	125 psi	**4ELH1**	—	—	—	—
3/4"	3/4 in	6.5	F	1, 2, 3, 3S, 4, 4X	150 °F	SC8210G003	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**4ELG8**
3/4"	3/4 in	6.5	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G003	5 psi	250 psi	150 psi	100 psi	**4ELG7**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G054	0 psi	150 psi	125 psi	125 psi	**4ELF5**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G004	5 psi	150 psi	150 psi	100 psi	**4ELG9**	—	—	—	—
1 1/2"	1 1/4 in	22.5	F	1, 2, 3, 3S, 4, 4X	150 °F	SC8210G022	5 psi	—	—	—	—	125 psi	250 psi	125 psi	**6FAY9**
1 1/2"	1 1/4 in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210G056	0 psi	150 psi	125 psi	125 psi	**6FAZ0**	—	—	—	—
Normally Closed, Brass Body - EPDM Gaskets															
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G001E	5 psi	200 psi	150 psi	135 psi	**6DYL0**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G002E	5 psi	200 psi	150 psi	135 psi	**6DYL1**	—	—	—	—
Normally Closed, Brass Body - FKM Gaskets															
1/8"	3/64 in	0.05	F	4, 4X	180 °F	U8256A001V	0 psi	—	—	—	—	360 psi	360 psi	330 psi	**4ELC2**
1/8"	1/16 in	0.08	F	4, 4X	180 °F	U8256A002V	0 psi	—	—	—	—	220 psi	220 psi	220 psi	**4ELC3**
1/8"	3/32 in	0.21	F	1, 2, 3, 3S, 4, 4X	210 °F	8262H011V	0 psi	500	350 psi	350 psi	**6ZAK2**	—	—	—	—
1/8"	7/64 in	0.19	F	4, 4X	180 °F	U8256B045V	0 psi	—	—	—	—	25 psi	25 psi	25 psi	**4ELC1**
1/4"	3/32 in	0.21	F	1, 2, 3, 3S, 4, 4X	210 °F	8262H021V	0 psi	500	350 psi	350 psi	**6YEJ8**	—	—	—	—
1/4"	7/32 in	0.73	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H208V	0 psi	100 psi	100 psi	100 psi	**6WTN4**	—	—	—	—
1/4"	7/32 in	0.73	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H013V	0 psi	55 psi	54 psi	40 psi	**6YEK1**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G094V	0 psi	150 psi	150 psi	Not Rated	**4EKT2**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G002V	5 psi	200 psi	150 psi	135 psi	**4EKR9**	—	—	—	—
3/4"	3/4 in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G095VH	0 psi	150 psi	150 psi	Not Rated	**4EKV2**	—	—	—	—
3/4"	3/4 in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G095V	0 psi	150 psi	150 psi	Not Rated	**6DYN8**	—	—	—	—
3/4"	3/4 in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G009V	5 psi	125 psi	125 psi	125 psi	**4EKV1**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G054V	0 psi	150 psi	125 psi	125 psi	**4EKP4**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G004V	5 psi	150 psi	150 psi	100 psi	**4EKP6**	—	—	—	—
Normally Closed, Brass Body - NBR Gaskets															
1/8"	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H001	0 psi	750 psi	750 psi	725 psi	**6WTN8**	—	—	—	—
1/8"	3/32 in	0.21	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H014	0 psi	370 psi	330 psi	190 psi	**6WTP3**	—	—	—	—
1/8"	3/32 in	0.21	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H014	0 psi	—	—	—	—	235 psi	160 psi	160 psi	**6WTU3**
1/8"	1/8 in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H002	0 psi	185 psi	180 psi	120 psi	**6WTP0**	—	—	—	—
1/8"	1/8 in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H002	0 psi	—	—	—	—	130 psi	110 psi	95 psi	**6WTW5**
1/4"	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	140 °F	8262H200	0 psi	1,500 psi	1,500 psi	1,500 psi	**6WTT0**	—	—	—	—
1/4"	3/32 in	0.21	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H021	0 psi	500 psi	350 psi	270 psi	**6WTT5**	—	—	—	—
1/4"	3/32 in	0.21	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H020	0 psi	370 psi	330 psi	160 psi	**6ZAK3**	—	—	—	—
1/4"	3/32 in	0.21	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H020	0 psi	—	—	—	—	235 psi	160 psi	160 psi	**6ZAJ9**
1/4"	1/8 in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H232	0 psi	340 psi	300 psi	215 psi	**6WTN1**	—	—	—	—
1/4"	1/8 in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H022	0 psi	185 psi	180 psi	90 psi	**6WTP4**	—	—	—	—
1/4"	1/8 in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8262H232	0 psi	340 psi	300 psi	215 psi	**6WTU9**	—	—	—	—
1/4"	1/8 in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H022	0 psi	—	—	—	—	130 psi	110 psi	90 psi	**6ZAK0**
1/4"	1/8 in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H232	0 psi	—	—	—	—	130 psi	125 psi	115 psi	**6WTW4**
1/4"	5/32 in	0.52	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8262H202	0 psi	210 psi	200 psi	145 psi	**6WTU7**	—	—	—	—
1/4"	5/32 in	0.52	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H202	0 psi	210 psi	200 psi	145 psi	**6WTP6**	—	—	—	—
1/4"	5/32 in	0.52	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H202	0 psi	—	—	—	—	65 psi	63 psi	63 psi	**6ZAK1**
1/4"	7/32 in	0.73	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8262H208	0 psi	100 psi	100 psi	100 psi	**6WTU8**	—	—	—	—
1/4"	7/32 in	0.73	F	1, 2, 3, 3S, 4, 4X	210 °F	8262H208	0 psi	100 psi	100 psi	100 psi	**6WTP8**	—	—	—	—
1/4"	7/32 in	0.73	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H208	0 psi	—	—	—	—	30 psi	30 psi	30 psi	**6WTW2**
1/4"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H210	0 psi	65 psi	75 psi	60 psi	**6WTV5**	—	—	—	—
1/4"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H212	0 psi	90 psi	90 psi	90 psi	**6WTR0**	—	—	—	—
1/4"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H090	0 psi	36 psi	36 psi	33 psi	**6WTV2**	—	—	—	—
1/4"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	SD8262H212	0 psi	90 psi	90 psi	90 psi	**6WTV0**	—	—	—	—
1/4"	9/32 in	0.88	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H090	0 psi	—	—	—	—	27 psi	23 psi	21 psi	**6WTW1**
1/4"	9/32 in	1	F	1, 2, 3, 3S, 4, 4X	125 °F	8262H078	0 psi	50 psi	50 psi	—	**6ZAK4**	—	—	—	—
1/4"	5/16 in	1.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8210B020	5 psi	125 psi	125 psi	Not Rated	**3UK18**	—	—	—	—
3/8"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	8263H210	0 psi	100 psi	85 psi	70 psi	**6WTN0**	—	—	—	—
3/8"	5/16 in	1.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8210B021	5 psi	125 psi	125 psi	Not Rated	**3UK19**	—	—	—	—
3/8"	3/8 in	1.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G073	5 psi	150 psi	125 psi	Not Rated	**3UL01**	—	—	—	—
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G093	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LE96**
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G001	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**5LE97**
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	175 °F	8210G006	5 psi	300 psi	300 psi	300 psi	**3UK64**	—	—	—	—
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G093	0 psi	150 psi	150 psi	Not Rated	**3UL10**	—	—	—	—
3/8"	5/8 in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G001	5 psi	200 psi	150 psi	135 psi	**3UK48**	—	—	—	—
1/2"	3/8 in	3.2	F	1, 2, 3, 3S, 4, 4X	200 °F	8223G003	25 psi	1,500 psi	1,500 psi	1,500 psi	**4KY38**	—	—	—	—
1/2"	7/16 in	2.2	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G015	5 psi	—	—	—	—	40 psi	40 psi	Not Rated	**4EKR8**
1/2"	7/16 in	2.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G015	5 psi	150 psi	125 psi	Not Rated	**3UK76**	—	—	—	—
1/2"	5/8 in	3.6	F	1, 2, 3, 3S, 4, 4X	125 °F	8210G075	0 psi	50 psi	50 psi	—	**6DYN4**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G094	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LE98**
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G002	5 psi	—	—	—	—	125 psi	100 psi	100 psi	**5LU11**
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	175 °F	8210G007	5 psi	300 psi	300 psi	300 psi	**3UK66**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G094	0 psi	150 psi	150 psi	Not Rated	**3UL13**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	JKF8210G094	0 psi	150 psi	150 psi	Not Rated	**4EKR4**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G094MO	0 psi	150 psi	150 psi	Not Rated	**6DYN7**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G094N	0 psi	150 psi	150 psi	Not Rated	**4EKT1**	—	—	—	—
1/2"	5/8 in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G002	5 psi	200 psi	150 psi	135 psi	**3UK51**	—	—	—	—

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CONTINUED

2- and 3-Way General-Purpose Solenoid Valves

ASCO Red-Hat®

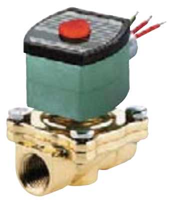
Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120V AC Max. Operating Pressure Diff. Air/ Inert Gas	120V AC Water	120V AC Light Oil	120V AC Item No	24VDC Max. Operating Pressure Diff. Air/ Inert Gas	24VDC Water	24VDC Light Oil	24VDC Item No
2-Way/2-Position (Cont.)															
Normally Closed, Brass Body - NBR Gaskets (Cont.)															
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G002MO	5 psi	200 psi	150 psi	135 psi	**6DYL2**	—	—	—	—
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G002Q	5 psi	200 psi	150 psi	135 psi	**6DYL3**	—	—	—	—
½"	⅝ in	4.0	H	1, 2, 3, 3S, 4, 4X	180 °F	HT8210G094	0 psi	150 psi	150 psi	Not Rated	**4ELF3**	—	—	—	—
½"	⅝ in	4.0	H	1, 2, 3, 3S, 4, 4X	180 °F	HT8210G002	5 psi	200 psi	150 psi	135 psi	**4ELE8**	—	—	—	—
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G095	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LU14**
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G009	5 psi	—	—	—	—	100 psi	90 psi	75 psi	**5LU15**
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G095	0 psi	150 psi	150 psi	Not Rated	**3UL19**	—	—	—	—
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	JKF8210G095	0 psi	150 psi	150 psi	Not Rated	**4EKV5**	—	—	—	—
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G009	5 psi	125 psi	125 psi	125 psi	**3UK70**	—	—	—	—
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	JKF8210G009	5 psi	125 psi	125 psi	125 psi	**4EKV4**	—	—	—	—
¾"	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G009MO	5 psi	125 psi	125 psi	125 psi	**6DYL6**	—	—	—	—
¾"	¾ in	5.0	H	1, 2, 3, 3S, 4, 4X	180 °F	HT8210G009	5 psi	125 psi	125 psi	125 psi	**4ELF1**	—	—	—	—
¾"	¾ in	6.0	F	1, 2, 3, 3S, 4, 4X	200 °F	8210G026	0 psi	350 psi	300 psi	200 psi	**5JC36**	—	—	—	—
¾"	¾ in	6.5	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G003	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**5LU16**
¾"	¾ in	6.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G003	5 psi	250 psi	150 psi	100 psi	**3UK58**	—	—	—	—
¾"	¾ in	6.5	F	1, 2, 3, 3S, 4, 4X	180 °F	JKF8210G003	5 psi	250 psi	150 psi	100 psi	**4EKV3**	—	—	—	—
¾"	¾ in	6.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G003B	5 psi	250 psi	150 psi	100 psi	**6DYL4**	—	—	—	—
¾"	¾ in	7.8	F	1, 2, 3, 3S, 4, 4X	200 °F	8223G005	25 psi	750 psi	750 psi	750 psi	**4KY39**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G004	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**5LU18**
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G054	0 psi	150 psi	125 psi	125 psi	**5JC40**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G004	5 psi	150 psi	150 psi	100 psi	**3UK60**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	JKF8210G004	5 psi	150 psi	150 psi	100 psi	**4EKP7**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G004MO	5 psi	150 psi	150 psi	100 psi	**6DYL5**	—	—	—	—
1"	1 in	13.0	H	1, 2, 3, 3S, 4, 4X	180 °F	HT8210G054	0 psi	150 psi	125 psi	125 psi	**4ELF2**	—	—	—	—
1"	1 in	13.0	H	1, 2, 3, 3S, 4, 4X	180 °F	HT8210G004	5 psi	150 psi	150 psi	100 psi	**4ELE9**	—	—	—	—
1"	1 in	13.5	F	1, 2, 3, 3S, 4, 4X	200 °F	8210G027	0 psi	300 psi	225 psi	115 psi	**5JC38**	—	—	—	—
1¼"	1 ⅛ in	15.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G008	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**5LU19**
1¼"	1 ⅛ in	15.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G055	0 psi	150 psi	125 psi	125 psi	**5JC44**	—	—	—	—
1¼"	1 ⅛ in	15.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G008	5 psi	150 psi	150 psi	100 psi	**4EKN7**	—	—	—	—
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G022	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**5LU20**
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G056	0 psi	150 psi	125 psi	125 psi	**5JC46**	—	—	—	—
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G022MO	5 psi	150 psi	150 psi	100 psi	**6DYL9**	—	—	—	—
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G022	5 psi	150 psi	150 psi	100 psi	**3UK79**	—	—	—	—
1½"	1 ¼ in	22.5	F	4X	180 °F	8210G056 24/DC	0 psi	—	—	—	—	135 psi	120 psi	120 psi	**53AY48**
1½"	1 ¼ in	22.5	H	1, 2, 3, 3S, 4, 4X	180 °F	8210B056	0 psi	150 psi	125 psi	125 psi	**6DYK9**	—	—	—	—
2"	1 ¾ in	43.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G100	5 psi	—	—	—	—	50 psi	50 psi	50 psi	**4EMF4**
2"	1 ¾ in	43.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G100	5 psi	150 psi	125 psi	90 psi	**3UL25**	—	—	—	—
2½"	1 ¾ in	45.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G101	5 psi	150 psi	125 psi	90 psi	**4KY37**	—	—	—	—
Normally Closed, Brass Body - Nylon Gaskets															
⅜"	5/16 in	1.5	F	1, 2, 3, 3S, 4, 4X	200 °F	8223G023	10 psi	750 psi	750 psi	750 psi	**4EKU4**	—	—	—	—
Normally Closed, Brass Body - PTFE Gaskets															
¼"	5/32 in	0.52	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H202T	0 psi	210 psi	200 psi	145 psi	**6WTT6**	—	—	—	—
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	JSF8210G002	5 psi	200 psi	150 psi	135 psi	**4EKR3**	—	—	—	—
Normally Closed, Plastic Body Open Frame - NBR Gaskets															
¼"	⅛ in	0.3	F	1, 2, 3, 3S, 4, 4X	125 °F	USM8260100	0 psi	125 psi	—	Not Rated	**4EKX4**	—	—	—	—
Normally Closed, Stainless Steel Body, DIN Connection - NBR Gaskets															
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	SC8210G087	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**6FAZ1**
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	175 °F	SD8210G087	0 psi	150 psi	150 psi	125 psi	**6FAZ5**	—	—	—	—
Normally Closed, Stainless Steel Body - EPDM Gaskets															
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	175 °F	8210G087E	0 psi	150 psi	150 psi	125 psi	**6DYN5**	—	—	—	—
Normally Closed, Stainless Steel Body - NBR Gaskets															
⅛"	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H006	0 psi	185 psi	180 psi	120 psi	**6WTP1**	—	—	—	—
¼"	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H080	0 psi	750 psi	750 psi	725 psi	**6WTV1**	—	—	—	—
¼"	3/32 in	0.21	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H086	0 psi	—	—	—	—	235 psi	160 psi	160 psi	**6WTR9**
¼"	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H007	0 psi	185 psi	180 psi	90 psi	**6WTP2**	—	—	—	—
¼"	⅛ in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H007	0 psi	—	—	—	—	130 psi	110 psi	90 psi	**6WTR6**
¼"	5/32 in	0.52	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H220	0 psi	210 psi	200 psi	145 psi	**6WTR2**	—	—	—	—
¼"	7/32 in	0.73	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H226	0 psi	100 psi	100 psi	100 psi	**6WTR3**	—	—	—	—
¼"	9/32 in	0.88	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H230	0 psi	90 psi	90 psi	90 psi	**6WTR4**	—	—	—	—
⅜"	⅜ in	1.5	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G036	5 psi	—	—	—	—	40 psi	40 psi	Not Rated	**6DYN1**
⅜"	⅜ in	1.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G036	5 psi	150 psi	125 psi	Not Rated	**3UK91**	—	—	—	—
½"	7/16 in	2.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G037	5 psi	150 psi	125 psi	Not Rated	**3UK93**	—	—	—	—
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G087	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LE99**
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	175 °F	8210G087	0 psi	150 psi	150 psi	125 psi	**3UL05**	—	—	—	—
¾"	⅝ in	4.5	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G088	0 psi	—	—	—	—	40 psi	40 psi	Not Rated	**5LU13**
¾"	⅝ in	4.5	F	1, 2, 3, 3S, 4, 4X	175 °F	8210G088	0 psi	150 psi	150 psi	125 psi	**3UL07**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G089	0 psi	150 psi	125 psi	125 psi	**5JC50**	—	—	—	—
Normally Open, Brass Body - DIN Connection - NBR Gaskets															
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	SC8210D032	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**6FAY7**
Normally Open, Brass Body - NBR Gaskets															
⅛"	⅛ in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H129	0 psi	160 psi	145 psi	70 psi	**39P476**	—	—	—	—
¼"	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H260	0 psi	750 psi	750 psi	750 psi	**39P477**	—	—	—	—
¼"	3/64 in	0.06	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H260	0 psi	—	—	—	—	650 psi	650 psi	400 psi	**39P478**
¼"	3/32 in	0.21	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H261	0 psi	275 psi	230 psi	180 psi	**39P479**	—	—	—	—
¼"	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H262	0 psi	160 psi	145 psi	125 psi	**39P481**	—	—	—	—
¼"	⅛ in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H262	0 psi	—	—	—	—	100 psi	100 psi	70 psi	**39P480**
¼"	5/32 in	0.54	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H263	0 psi	90 psi	90 psi	70 psi	**39P482**	—	—	—	—
¼"	9/32 in	0.96	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H265	0 psi	30 psi	30 psi	30 psi	**39P483**	—	—	—	—
¼"	9/32 in	0.96	H	1, 2, 3, 3S, 4, 4X	180 °F	8262H265	0 psi	—	—	—	—	20 psi	17 psi	17 psi	**39P484**
⅜"	⅝ in	3.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G033	0 psi	—	—	—	—	125 psi	125 psi	80 psi	**2LBH6**
⅜"	⅝ in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G033	0 psi	150 psi	150 psi	125 psi	**3UK85**	—	—	—	—
⅜"	⅝ in	4.6	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G033VH	0 psi	15 psi	—	Not Rated	**4EKZ7**	—	—	—	—
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G034	0 psi	—	—	—	—	125 psi	125 psi	80 psi	**2LBH4**
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G034	0 psi	150 psi	150 psi	125 psi	**3UK87**	—	—	—	—
½"	⅝ in	4.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G012	5 psi	250 psi	200 psi	200 psi	**6DYL7**	—	—	—	—
¾"	¾ in	5.5	F	1, 2, 3, 3S, 4, 4X	150 °F	8210G035	0 psi	—	—	—	—	125 psi	125 psi	80 psi	**2LBH5**
¾"	¾ in	5.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G035	0 psi	150 psi	150 psi	125 psi	**3UK89**	—	—	—	—
¾"	¾ in	6.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G013	5 psi	250 psi	200 psi	200 psi	**6DYL8**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210B057	0 psi	125 psi	125 psi	125 psi	**4KY35**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G014	5 psi	150 psi	150 psi	125 psi	**4EKY9**	—	—	—	—
1"	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210D014	5 psi	—	—	—	—	125 psi	125 psi	125 psi	**4EMF1**
1¼"	1 ⅛ in	15.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G018	5 psi	150 psi	150 psi	125 psi	**4EMF6**	—	—	—	—
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210B059	0 psi	125 psi	125 psi	125 psi	**4KY36**	—	—	—	—
1½"	1 ¼ in	22.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G032	5 psi	150 psi	150 psi	125 psi	**4EKY8**	—	—	—	—
2"	1 ¾ in	43.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G103	5 psi	125 psi	125 psi	125 psi	**4EKY7**	—	—	—	—
2½"	1 ¾ in	45.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G104	5 psi	125 psi	125 psi	125 psi	**6DYP0**	—	—	—	—
Normally Open, Stainless Steel Body - NBR Gaskets															
¼"	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	8262H138	0 psi	145 psi	145 psi	125 psi	**39P485**	—	—	—	—
½"	⅝ in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G030	0 psi	150 psi	150 psi	100 psi	**3UK83**	—	—	—	—
¾"	⅝ in	3.0	F	1, 2, 3, 3S, 4, 4X	180 °F	8210G038	0 psi	150 psi	150 psi	100 psi	**3UK95**	—	—	—	—

4EKR3

4EKX4

6WTR9

2LBH5



4EKY9

CONTINUED

4ELF8

ASCO Red-Hat

2- and 3-Way General-Purpose Solenoid Valves

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Max Fluid Temp.	Mfr. Model	Min. Oper. Press. Differential	120V AC Max. Operating Pressure Diff. Air/Inert Gas	120V AC Water	120V AC Light Oil	120V AC Item No	24VDC Max. Operating Pressure Diff. Air/Inert Gas	24VDC Water	24VDC Light Oil	24VDC Item No
3-Way/2-Position															
Normally Closed, Brass Body - NBR Gaskets															
⅛"	3⁄64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8320G132	0 psi	200 psi	200 psi	200 psi	**24W635**	—	—	—	—
¼"	1⁄16 in	0.09	F	1, 2, 3, 3S, 4, 4X	150 °F	8320G182	0 psi	—	—	—	—	160 psi	160 psi	160 psi	**24W643**
¼"	1⁄16 in	0.09	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G182	0 psi	210 psi	225 psi	225 psi	**44U295**	—	—	—	—
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	150 °F	8320G184	0 psi	—	—	—	—	150 psi	150 psi	150 psi	**24W628**
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G089	0 psi	110 psi	110 psi	110 psi	**44U291**	—	—	—	—
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G184MO	0 psi	150 psi	150 psi	150 psi	**44U296**	—	—	—	—
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G184MS	0 psi	150 psi	150 psi	150 psi	**44U297**	—	—	—	—
⅜"	⅝ in	2.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G054	10 psi	150 psi	125 psi	Not Rated	**24W665**	—	—	—	—
⅜"	⅝ in	2.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G014	10 psi	250 psi	250 psi	Not Rated	**44U286**	—	—	—	—
½"	⅝ in	3.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G064	10 psi	150 psi	125 psi	Not Rated	**24W630**	—	—	—	—
½"	⅝ in	3.2	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G024	10 psi	250 psi	250 psi	Not Rated	**24W672**	—	—	—	—
¾"	11⁄16 in	4.8	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G074	10 psi	150 psi	125 psi	Not Rated	**24W676**	—	—	—	—
1"	1 in	12.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G034	10 psi	150 psi	125 psi	Not Rated	**24W675**	—	—	—	—
Normally Open, Brass Body - NBR Gaskets															
⅛"	3⁄64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8320G136	0 psi	200 psi	200 psi	200 psi	**24W633**	—	—	—	—
⅛"	3⁄64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	8320G136MS	0 psi	200 psi	200 psi	200 psi	**44U293**	—	—	—	—
¼"	1⁄16 in	0.09	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G192	0 psi	235 psi	250 psi	250 psi	**24W639**	—	—	—	—
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G194	0 psi	150 psi	140 psi	140 psi	**24W634**	—	—	—	—
⅜"	⅝ in	2.5	F	1, 2, 3, 3S, 4, 4X	180 °F	8316G016	10 psi	250 psi	250 psi	Not Rated	**44U287**	—	—	—	—
Universal, Brass Body - NBR Gaskets															
⅛"	3⁄64 in	0.06	F	1, 2, 3, 3S, 4, 4X	140 °F	8320G130	0 psi	175 psi	175 psi	175 psi	**44U292**	—	—	—	—
Universal, Plastic Body - Buna-N Gaskets															
¼"	1⁄16 in	0.07	F	1, 2, 3, 3S, 4, 4X	130 °F	8360G071	0 psi	100 psi	100 psi	—	**44U314**	—	—	—	—
Universal, Stainless Steel Body - NBR Gaskets															
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	8320G200	5 psi	100 psi	100 psi	100 psi	**4ELF8**	—	—	—	—
3-Way/2-Position, Universal, Brass Body - NBR Gaskets 24V DC															
¼"	3⁄32 in	0.12	F	1, 2, 3, 3S, 4, 4X	150 °F	8320G174	0 psi	—	—	—	—	60 psi	60 psi	60 psi	**44U294**

2-Way Normally Closed Dust Collector Solenoid Valves

ASCO Red-Hat

High-flow aluminum valves use a powerful pulse of air to separate dust and particulate from filters and bags. NBR gasket. Remote pilot valves require separate solenoid valves. Integral pilot valves feature watertight type molded epoxy solenoid coils with ½" conduit hub. Coil included. Valves have NPT pipe connections (except 5LU48 is compression connection).

5LU48

5LU51

5LU53

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Air/Inert Gas	Max. Fluid Temp.	Voltage	Watts	Mfr. Model	Item No.
Dust Collector Solenoid Valve											
¾ in	1 ⅛ in	15.0	F	1, 2, 3, 3S, 4, 4X	5 psi	125 psi	150 °F	120V AC	6.1 W	8353G052	**5LU48**
1 in	1 ⅛ in	20.0	F	1, 2, 3, 3S, 4, and 4X	5 psi	125 psi	185 °F	120V AC	6.1 W	8353G041	**5LU50**
1 ½ in	2 in	53.0	F	1, 2, 3, 3S, 4, 4X	5 psi	125 psi	150 °F	120V AC	10.1 W	8353J039	**5LU52**
Remote Piloted Dust Collector Valve											
¾ in	¾ in	10.5	—	—	5 psi	125 psi	185 °F	—	—	8353C033	**5LU47**
1 in	1 ⅛ in	20.0	—	—	5 psi	125 psi	185 °F	—	—	8353C035	**5LU49**
1 ½ in	2 in	53.0	—	—	10 psi	125 psi	185 °F	—	—	8353H038	**5LU51**

For Use With Grainger Item Number	Mfr. Model	Item No.
Solenoid Valve Rebuild Kits		
3UK31, 5LU47	96875	**5LU53**
5LU52	322108	**5LU54**
3UK32, 5LU49	200262	**5LU55**
5LU48, 5LU50	316563	**5LU56**
5LU51	276886	**5LU57**

3UL37

4EMD4

3UL38

2-Way Normally Closed Slow-Closing Solenoid Valves

ASCO Red-Hat

- Max. fluid temp.: 180°F
- Brass body

Slow-closing design reduces the pressure spike and brings the water hammer to a level that eliminates the need for suppressors or other controls. Coil included.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Water	Voltage	Watts	Mfr. Model	Item No.
Slow Closing Solenoid Valve										
⅜ in	9⁄16 in	3.0	F	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	120V AC	6.1 W	8221G001	**3UL35**
½ in	9⁄16 in	3.5	F		5 psi	150 psi	120V AC	6.1 W	8221G003	**3UL36**
¾ in	¾ in	5.5	F		5 psi	150 psi	120V AC	6.1 W	8221G005	**3UL37**
1 in	1 in	11.5	F		5 psi	150 psi	120V AC	6.1 W	8221G007	**3UL38**
1 ¼ in	1 ⅛ in	13.0	F		5 psi	150 psi	120V AC	6.1 W	8221G009	**3UL39**
1 ½ in	1 ¼ in	24.0	F		5 psi	150 psi	120V AC	6.1 W	8221G011	**3UL40**
2 in	1 ¾ in	36.0	F		5 psi	150 psi	120V AC	6.1 W	8221G013	**3UL41**
Slow Closing Hot Water Solenoid Valve										
½ in	9⁄16 in	3.5	—	1, 2, 3, 3S, 4, 4X	5 psi	—	120V AC	6.1 W	8221G003HW	**4EMD4**
1 in	1 in	11.5	F		5 psi	—	120V AC	6.1 W	8221G007HW	**5LU30**

2HTR5

2HTP7

2HTR2

Low-Pressure Normally Closed and Normally Open Solenoid Valves

ASCO Red-Hat

- Brass body with NBR gasket

Ideal for dispensing, collating, gas shutoff, vacuum holding, and tank draining. Normally open valves operate at low pressures with no minimum required; well suited for venting systems. Coil included. CSA and CE Certified; except 4EKU3 is FM Approved, UL Recognized, and CSA Certified.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	NEMA Rating	Min. Operating Pressure Differential	Max. Operating Pressure Differential Water	Max. Fluid Temp.	Voltage	Watts	Mfr. Model	Item No.
Solenoid Valve, Normally Open											
½ in	7⁄16 in	2.2	F	7	0 psi	15 psi	200 °F	120V AC	20.1 W	8030G071	**2HTR4**
¾ in	¾ in	5.5	F	1, 2, 3, 3S, 4, 4X	0 psi	2 psi	180 °F	120V AC	10.1 W	8030G083	**2HTR5**
Solenoid Valve, Normally Closed											
⅜ in	⅜ in	1.8	F	1, 2, 3, 3S, 4, 4X	0 psi	5 psi	180 °F	120V AC	6.1 W	8030G010	**2HTP7**
⅜ in	⅜ in	1.8	F		0 psi	15 psi	200 °F	120V AC	10.1 W	8030G013	**2HTP8**
½ in	7⁄16 in	2.8	F		0 psi	6 psi	125 °F	120V AC	6.1 W	8030G016	**2HTP9**
½ in	7⁄16 in	2.8	F	7	0 psi	15 psi	200 °F	120V AC	16.1 W	8030G017	**2HTR1**
¾ in	¾ in	5.0	F	1, 2, 3, 3S, 4, 4X	0 psi	2 psi	200 °F	120V AC	10.1 W	8030G003	**2HTR2**
¾ in	¾ in	5.0	F		0 psi	4 psi	180 °F	120V AC	17.1 W	8030G043	**2HTR3**
Medium Vacuum Solenoid Valve, Normally Closed											
⅜ in	⅜ in	1.8	F	1, 2, 3, 3S, 4, 4X	0 psi	—	180 °F	120V AC	10.1 W	8030G013VM	**4EKU3**

12VDC, 24VAC, and 240VAC General-Purpose Solenoid Valves

1-pc. molded epoxy coil enclosures have built-in ½" NPT conduit hubs with strain relief. Normally open valves close when energized. Normally closed valves open when energized.

2-WAY

High-flow valves for liquid, corrosive, and air/inert gas service in applications such as car washes, air compressors, pumps, laundry equipment, and industrial water control.

3-WAY

Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from valve actuators and single-acting cylinders.

3-WAY UNIVERSAL

Can connect as either normally open or normally closed to select or direct fluids to different ports.

2HTX6

4EKV6

6WTN3

4ELC9

6WTV9

Pipe Size	Orifice Dia.	Cv	Coil Insul. Class	NEMA Rating	Max. Fluid Temp.	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air/Inert Gas	Water	Light Oil	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Brass Body - FKM Gaskets											
24V AC											
⅛ in	7/64 in	1.19	F	4, 4X	180 °F	0 psi	135 psi	126 psi	80 psi	SC8256B045V	**4ELA1**
2-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
12V DC											
⅛ in	⅛ in	0.35	H	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	130 psi	110 psi	95 psi	8262H002	**6WTU2**
	3/32 in	0.21	H		180 °F	0 psi	235 psi	160 psi	160 psi	8262H014	**6WTU5**
¼ in	⅛ in	0.35	H		180 °F	0 psi	130 psi	110 psi	90 psi	8262H022	**6WTT7**
	3/32 in	0.21	H		180 °F	0 psi	235 psi	160 psi	60 psi	8262H020	**6WTU0**
⅜ in	⅝ in	3.0	F		150 °F	0 psi	40 psi	40 psi	Not Rated	8210G093	**4EKU1**
	⅝ in	3.0	F		150 °F	5 psi	125 psi	100 psi	100 psi	8210G001	**4EKT9**
½ in	⅝ in	4.0	F		150 °F	0 psi	40 psi	40 psi	Not Rated	8210G094	**2HTX6**
	⅝ in	4.0	F		150 °F	5 psi	125 psi	100 psi	100 psi	8210G002	**2HTX5**
¾ in	¾ in	5.0	F		150 °F	0 psi	40 psi	40 psi	Not Rated	8210G095	**4EKU7**
	¾ in	5.0	F		150 °F	5 psi	100 psi	90 psi	75 psi	8210G009	**4EKU8**
	¾ in	6.5	F		150 °F	5 psi	125 psi	125 psi	125 psi	8210G003	**4EKV9**
1 in	1 in	13.0	F		150 °F	5 psi	125 psi	125 psi	125 psi	8210G004	**4EKP5**
24/60V AC											
¼ in	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	185 psi	180 psi	90 psi	8262H022	**6WTR7**
24V AC											
⅛ in	⅛ in	0.35	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	185 psi	180 psi	120 psi	8262H002	**6WTN2**
¼ in	7/32 in	0.73	F		180 °F	0 psi	100 psi	100 psi	100 psi	8262H208	**6WTT9**
	7/32 in	0.73	F		180 °F	0 psi	100 psi	100 psi	100 psi	OFKF8262H208	**6ZAK6**
⅜ in	⅝ in	3.0	F		180 °F	5 psi	200 psi	150 psi	135 psi	8210G001	**4EKU2**
½ in	⅝ in	4.0	F		180 °F	0 psi	150 psi	150 psi	Not Rated	8210G094	**2HTY1**
	⅝ in	4.0	F		180 °F	5 psi	200 psi	150 psi	135 psi	8210G002	**2HTX4**
	7/16 in	2.2	F		180 °F	5 psi	150 psi	125 psi	Not Rated	8210G015	**4EKT7**
	⅝ in	4.0	F		180 °F	0 psi	150 psi	150 psi	Not Rated	SC8210G094	**6FAZ2**
¾ in	¾ in	4.0	F		180 °F	0 psi	150 psi	150 psi	Not Rated	8210G095	**2HTX7**
	¾ in	5.0	F		180 °F	5 psi	125 psi	125 psi	125 psi	8210G009	**4EKV6**
1 in	1 in	13.0	F		180 °F	5 psi	150 psi	150 psi	100 psi	8210G004	**4EKP1**
	1 in	13.0	F		180 °F	0 psi	150 psi	125 psi	125 psi	8210G054	**6DYN2**
1 ¼ in	1 ⅛ in	15.0	F		180 °F	5 psi	150 psi	150 psi	100 psi	8210G008	**4EKN8**
1 ½ in	1 ¼ in	22.5	F		180 °F	5 psi	150 psi	150 psi	100 psi	8210G022	**4EKN4**
	1 ¼ in	22.5	F		180 °F	0 psi	150 psi	125 psi	125 psi	8210G056	**6DYN3**
2 in	1 ¾ in	43.0	F		180 °F	5 psi	150 psi	125 psi	90 psi	8210G100	**6DYN9**
240V AC											
⅛ in	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	750 psi	750 psi	725 psi	8262H001	**6WTN3**
	⅛ in	0.35	H		180 °F	0 psi	185 psi	180 psi	120 psi	8262H002	**6WTU4**
¼ in	⅛ in	0.35	F		180 °F	0 psi	185 psi	180 psi	90 psi	8262H022	**6WTR8**
	5/32 in	0.52	F		180 °F	0 psi	210 psi	200 psi	145 psi	8262H202	**6WTT1**
	7/32 in	0.73	F		180 °F	0 psi	100 psi	100 psi	100 psi	8262H208	**6WTT8**
⅜ in	⅝ in	3.0	F		180 °F	5 psi	200 psi	150 psi	135 psi	8210G001	**4EKU5**
½ in	⅝ in	4.0	F		180 °F	5 psi	200 psi	150 psi	135 psi	8210G002	**4EKR2**
	7/16 in	2.2	F		180 °F	5 psi	150 psi	125 psi	Not Rated	8210G015	**4EKT4**
	⅝ in	4.0	F		180 °F	0 psi	150 psi	150 psi	Not Rated	8210G094	**4EKT5**
¾ in	¾ in	5.0	F		180 °F	5 psi	125 psi	125 psi	125 psi	8210G009	**4EKV7**
	¾ in	5.0	F		180 °F	0 psi	150 psi	150 psi	Not Rated	8210G095	**4EKU9**
1 in	1 in	13.0	F		180 °F	5 psi	150 psi	150 psi	100 psi	8210G004	**4EKR1**
2-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
24V AC											
1 in	1 in	13.0	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	150 psi	125 psi	125 psi	8210G089	**6DYN6**
2-Way/2-Position, Normally Open, Brass Body - NBR Gaskets											
24V AC											
¾ in	¾ in	5.5	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	150 psi	150 psi	125 psi	8210G035	**6DYN0**
3-Way/2-Position, Normally Closed, Brass Body											
24/60V AC											
⅛ in	1/16 in	0.09	F	4	180 °F	0 psi	145 psi	145 psi	145 psi	SC8356A002V	**44U336**
3-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
12V DC											
¼ in	1/32 in	0.02	F	1, 2, 3, 3S, 4, 4X	140 °F	0 psi	550 psi	600 psi	600 psi	8320A190	**4ELC9**
	1/16 in	0.09	F		150 °F	0 psi	160 psi	160 psi	160 psi	8320G182	**4ELD1**
3-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
24V DC											
¼ in	3/32 in	0.12	F	1, 2, 3, 3S, 4, 4X	200 °F	0 psi	115 psi	115 psi	115 psi	8320G202	**44U301**
3-Way/2-Position, Universal, Brass Body - NBR Gaskets											
12V DC											
⅛ in	3/64 in	0.06	F	1, 2, 3, 3S, 4, 4X	120 °F	0 psi	125 psi	125 psi	125 psi	8320G130	**4ELD3**
24V AC											
⅛ in	1/16 in	0.09	F	1, 2, 3, 3S, 4, 4X	180 °F	0 psi	100 psi	100 psi	100 psi	8320G001	**4ELD2**
24V DC											
⅛ in	1/16 in	0.09	F	1, 2, 3, 3S, 4, 4X	120 °F	0 psi	65 psi	65 psi	65 psi	8320G001	**44U289**
¼ in	3/32 in	0.12	F		150 °F	0 psi	60 psi	60 psi	60 psi	8320G174	**44U294**

Pipe Size	Orifice Dia.	Cv	Coil Insul. Class	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Steam	Max. Fluid Temp. Hot Water	Steam	Watts	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Steam and Hot Water, Brass Body												
24V AC												
¾ in	¾ in	8.8	H	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	125 psi	210 °F	353 °F	10.1 W	8220G409	**6WTV9**
240V AC												
¾ in	¾ in	8.8	H	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	125 psi	210 °F	353 °F	10.1 W	8220G409	**6WTW0**

ASCO Red-Hat®

2-, 3-, and 4-Way Intrinsically-Safe Solenoid Valves

- Coil insulation class: F, except 44U332, 6WTV8, and 4EMC9 are class H

Coil enclosures have a built-in ½" NPT conduit hub with strain relief. Designed to contain internal explosions without causing an external hazard for Type 7 Class 1, Division 1 and 2, Groups A, B, C, and D gases or vapors. Type 9 Class 2, Division 1 and 2, Groups E, F, and G. Normally closed valves close when de-energized. Normally open valves open when de-energized.

2-WAY

Provide high-flow levels for liquid, corrosive, and air/inert gas service.

3-WAY

Have 3 pipe connections and 2 orifices that alternately apply pressure to and exhaust pressure from a valve actuator or single-acting cylinder. For Quick-Exhaust/Universal models air is exhausted through the exhaust orifice to quickly shift control valves to 0 psi.

4-WAY

Have 4 pipe connections, 1 pressure inlet, and 2 cylinder ports that provide pressure to a double-acting cylinder or actuator. A single outlet exhausts pressure from the cylinders.

6FAX2

6WTN9

3UL06

3UL08

44U321

6WTV8

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Max. Oper. Press. Differential Steam	Max. Fluid Temp. Hot Water	Max. Fluid Temp. Steam	Watts	Item No.
2-Way/2-Position, Normally Closed, Hot Water Steam, Brass Body										
½ in	½ in	4.7	3, 7, 9	5 psi	150 psi	125 psi	210 °F	353 °F	10.1 W	**6WTV8**
1 in	1 in	13.5	3, 7, 9	5 psi	150 psi	125 psi	210 °F	353 °F	10.1 W	**4EMC9**

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Max. Fluid Temp.	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Voltage	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, 316L Stainless Steel Body - NBR Gaskets											
¼ in	⅛ in	0.35	3, 3S, 4, 4X, 6, 6P, 7, 9	180 °F	0 psi	185 psi	180 psi	90 psi	120V AC	EF8262H007	**6WTT2**
2-Way/2-Position, Normally Closed, Brass Body - FKM Gaskets											
1 in	1 in	13.0	1, 2, 3, 3S, 4, 4X, 7, 9	180 °F	5 psi	150 psi	150 psi	100 psi	120V AC	EF8210G004V	**6FAX2**
1 ½ in	1 ¼ in	22.5		180 °F	0 psi	150 psi	125 psi	125 psi	120V AC	EF8210G056V	**6FAX7**
2 in	1 ¾ in	43.0		180 °F	5 psi	150 psi	125 psi	90 psi	120V AC	EF8210G100V	**6FAY1**
2-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
⅛ in	3/32 in	0.21	3, 3S, 4, 4X, 6, 6P, 7, 9	180 °F	0 psi	370 psi	330 psi	190 psi	120V AC	EF8262H014	**6WTU1**
	⅛ in	0.35		180 °F	0 psi	185 psi	180 psi	120 psi	120V AC	EF8262H002	**6WTN9**
¼ in	⅛ in	0.35		180 °F	0 psi	185 psi	180 psi	90 psi	120V AC	EF8262H022	**6WTP5**
	5/32 in	0.52		180 °F	0 psi	210 psi	200 psi	145 psi	120V AC	EF8262H202	**6WTP7**
	7/32 in	0.73		180 °F	0 psi	100 psi	100 psi	100 psi	120V AC	EF8262H208	**6WTP9**
	9/32 in	0.88		180 °F	0 psi	90 psi	90 psi	90 psi	120V AC	EF8262H212	**6WTR1**
⅜ in	⅜ in	1.5	3, 4, 4X, 7, 9	180 °F	5 psi	150 psi	125 psi	Not Rated	120V AC	EF8210G073	**3UL02**
	⅝ in	3.0		180 °F	0 psi	150 psi	150 psi	Not Rated	120V AC	EF8210G093	**3UL12**
	⅝ in	3.0		180 °F	5 psi	200 psi	150 psi	135 psi	120V AC	EF8210G001	**3UK50**
	⅝ in	3.0		175 °F	5 psi	300 psi	300 psi	300 psi	120V AC	EF8210G006	**3UK65**
½ in	7/16 in	2.2		180 °F	5 psi	150 psi	125 psi	Not Rated	120V AC	EF8210G015	**3UK77**
	⅝ in	4.0		150 °F	5 psi	125 psi	100 psi	100 psi	24V DC	EF8210G002	**5LU12**
	⅝ in	4.0		180 °F	0 psi	150 psi	150 psi	Not Rated	120V AC	EF8210G094	**3UL15**
	⅝ in	4.0		180 °F	5 psi	200 psi	150 psi	135 psi	120V AC	EF8210G002	**3UK53**
	⅝ in	4.0		175 °F	5 psi	300 psi	300 psi	300 psi	120V AC	EF8210G007	**3UK67**
¾ in	¾ in	5.0		180 °F	5 psi	125 psi	125 psi	125 psi	120V AC	EF8210G009	**3UK72**
	¾ in	5.0		180 °F	0 psi	150 psi	150 psi	Not Rated	120V AC	EF8210G095	**3UL21**
	¾ in	6.5		150 °F	5 psi	125 psi	125 psi	125 psi	24V DC	EF8210G003	**4EKU6**
	¾ in	6.5		180 °F	5 psi	250 psi	150 psi	100 psi	120V AC	EF8210G003	**3UK59**
	¾ in	6.0		200 °F	0 psi	350 psi	300 psi	200 psi	120V AC	EF8210G026	**5JC60**
1 in	1 in	13.0		180 °F	5 psi	150 psi	150 psi	100 psi	120V AC	EF8210G004	**3UK61**
	1 in	13.0		180 °F	0 psi	150 psi	125 psi	125 psi	120V AC	EF8210G054	**5JC42**
1 ¼ in	1 ⅛ in	15.0		180 °F	5 psi	150 psi	150 psi	100 psi	120V AC	EF8210G008	**3UK69**
1 ½ in	1 ¼ in	22.5		180 °F	5 psi	150 psi	150 psi	100 psi	120V AC	EF8210G022	**3UK80**
	1 ¼ in	22.5		180 °F	0 psi	150 psi	125 psi	125 psi	120V AC	EF8210G056	**5JC48**
	1 ¼ in	22.5	1, 2, 3, 3S, 4, 4X, 7, 9	180 °F	0 psi	150 psi	125 psi	125 psi	240V AC	EF8210G056	**6FAX6**
2 in	1 ¾ in	43.0	3, 4, 4X, 7, 9	180 °F	5 psi	150 psi	125 psi	90 psi	120V AC	EF8210G100	**3UL26**
	1 ¾ in	43.0	1, 2, 3, 3S, 4, 4X, 7, 9	150 °F	5 psi	50 psi	50 psi	50 psi	24V DC	EF8210G100	**6FAY0**
2-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
¼ in	5/32 in	0.52	3, 3S, 4, 4X, 6, 6P, 7, 9	180 °F	0 psi	210 psi	200 psi	145 psi	120V AC	EF8262H220	**6WTT4**
½ in	7/16 in	2.2	3, 4, 4X, 7, 9	180 °F	5 psi	150 psi	125 psi	Not Rated	120V AC	EF8210G037	**3UK94**
	⅝ in	4.0		150 °F	0 psi	40 psi	40 psi	Not Rated	24V DC	EF8210G087	**5LU10**
	⅝ in	4.0		175 °F	0 psi	150 psi	150 psi	125 psi	120V AC	EF8210G087	**3UL06**
¾ in	⅝ in	4.5		175 °F	0 psi	150 psi	150 psi	125 psi	120V AC	EF8210G088	**3UL08**
	⅝ in	4.5	1, 2, 3, 3S, 4, 4X, 7, 9	150 °F	0 psi	40 psi	40 psi	Not Rated	24V DC	EF8210G088	**6FAX8**
1 in	1 in	13.0		180 °F	0 psi	150 psi	125 psi	125 psi	120V AC	EF8210G089	**6FAX9**
2-Way/2-Position, Normally Open, Brass Body - NBR Gaskets											
⅜ in	⅝ in	3.0	3, 4, 4X, 7, 9	180 °F	0 psi	150 psi	150 psi	125 psi	120V AC	EF8210G033	**3UK86**
½ in	⅝ in	4.0		180 °F	0 psi	150 psi	150 psi	125 psi	120V AC	EF8210G034	**3UK88**
¾ in	¾ in	5.5		180 °F	0 psi	150 psi	150 psi	125 psi	120V AC	EF8210G035	**3UK90**
1 in	1 in	13.0	1, 2, 3, 3S, 4, 4X, 7, 9	180 °F	5 psi	150 psi	150 psi	125 psi	120V AC	EF8210G014	**6FAX3**
2-Way/2-Position, Normally Open, Stainless Steel Body - NBR Gaskets											
½ in	⅝ in	3.0	3, 4, 4X, 7, 9	180 °F	0 psi	150 psi	150 psi	100 psi	120V AC	EF8210G030	**4EKZ2**
¾ in	⅝ in	3.0	1, 2, 3, 3S, 4, 4X, 7, 9	180 °F	0 psi	150 psi	150 psi	100 psi	120V AC	EF8210G038	**6FAX4**
	⅝ in	3.0		150 °F	0 psi	125 psi	125 psi	80 psi	24V DC	EF8210G038	**6FAX5**
	⅝ in	3.0	3, 4, 4X, 7, 9	180 °F	0 psi	150 psi	150 psi	100 psi	120V AC	EF8210G038	**3UK96**
3-Way/2-Position, Normally Closed, 316 Stainless Steel Body - FKM Gaskets											
¼ in	5/16 in	1.5	3, 3S, 4, 4X, 6, 6P, 7, 9	130 °F	0 psi	130 psi	—	Not Rated	24V DC	EV8316G381	**24W660**
½ in	⅝ in	4.0		130 °F	0 psi	130 psi	—	Not Rated	24V DC	EV8316G384	**24W663**
3-Way/2-Position, Normally Closed, 316 Stainless Steel Body - NBR Gaskets											
⅜ in	5/16 in	1.8	3, 3S, 4, 4X, 6, 6P, 7, 9	130 °F	0 psi	130 psi	—	Not Rated	24V DC	EV8316G382	**24W642**
	5/16 in	3.97		140 °F	15 psi	150 psi	—	Not Rated	24V DC	EVX8316G382	**44U333**
3-Way/2-Position, Normally Closed, Brass Body - NBR Gaskets											
¼ in	1/16 in	0.09	3, 3S, 4, 4X, 6, 6P, 7, 9	200 °F	0 psi	210 psi	225 psi	225 psi	120V AC	EF8320G182	**44U321**
	1/16 in	0.09		150 °F	0 psi	160 psi	160 psi	160 psi	24V DC	EF8320G182	**44U322**
	3/32 in	0.12		150 °F	0 psi	115 psi	115 psi	115 psi	24V DC	EF8320G184	**4ELC8**
	3/32 in	0.2		180 °F	5 psi	150 psi	150 psi	95 psi	120V AC	EF8317G035	**3UL83**
	3/32 in	0.12		200 °F	0 psi	150 psi	150 psi	150 psi	120V AC	EF8320G184	**3UL96**
	5/16 in	1.5		149 °F	0 psi	130 psi	—	Not Rated	24V DC	EF8316H301	**6YEK3**
⅜ in	5/16 in	1.8		140 °F	15 psi	150 psi	—	Not Rated	24V DC	EF8316G302	**44U317**
	⅜ in	0.8		180 °F	10 psi	200 psi	200 psi	200 psi	120V AC	EF8321G002	**3UM07**
	⅝ in	2.5		180 °F	10 psi	150 psi	125 psi	Not Rated	120V AC	EF8316G054	**24W650**
	⅝ in	2.5		180 °F	10 psi	125 psi	125 psi	Not Rated	24V DC	EF8316G054	**44U315**
3-Way/2-Position, Normally Closed, Stainless Steel Body - NBR Gaskets											
¼ in	3/32 in	0.12	3, 3S, 4, 4X, 6, 6P, 7, 9	150 °F	0 psi	115 psi	115 psi	115 psi	24V DC	EF8320G202	**4ELC7**
	3/32 in	0.12		200 °F	0 psi	150 psi	150 psi	150 psi	120V AC	EF8320G202	**4ELC6**
	⅛ in	0.25		200 °F	0 psi	85 psi	85 psi	85 psi	120V AC	EF8320G203	**44U324**
	⅛ in	0.25		150 °F	0 psi	60 psi	60 psi	60 psi	24V DC	EF8320G203	**44U325**
3-Way/2-Position, Universal, 316 Stainless Steel Body - NBR Gaskets											
¼ in	1/16 in	0.08	3, 3S, 4, 4X, 6, 6P, 7, 9	140 °F	0 psi	150 psi	—	Not Rated	24V DC	EV8314G301	**24W645**
3-Way/2-Position, Universal, Brass Body - NBR Gaskets											
¼ in	1/20 in	0.06	3, 3S, 4, 4X, 6, 6P, 7, 9	149 °F	0 psi	130 psi	—	Not Rated	24V DC	EF8314H300	**6YEH6**
	1/16 in	0.06		149 °F	5 psi	130 psi	—	Not Rated	24V DC	EF8317H307	**6YEK4**
	1/16 in	0.09		200 °F	0 psi	130 psi	125 psi	130 psi	120V AC	EF8320G172	**3UL90**
	3/32 in	0.12		200 °F	0 psi	100 psi	100 psi	100 psi	120V AC	EF8320G174	**3UL92**
	3/32 in	0.12		200 °F	0 psi	100 psi	100 psi	100 psi	120V AC	EF8320G174MS	**44U319**
	3/32 in	0.12		200 °F	0 psi	50 psi	50 psi	50 psi	120V AC	EF8320G176	**44U320**
	⅛ in	0.25		200 °F	0 psi	50 psi	50 psi	50 psi	240V AC	EF8320G176	**4ELD4**
	¼ in	0.49		176 °F	0 psi	150 psi	150 psi	150 psi	120V AC	EF8327G041	**44U326**
	¼ in	0.49		176 °F	0 psi	150 psi	150 psi	150 psi	24V DC	EF8327G041	**44U327**
3-Way/2-Position, Universal, Stainless Steel Body - NBR Gaskets											
¼ in	1/16 in	0.08	3, 3S, 4, 4X, 6, 6P, 7, 9	140 °F	0 psi	150 psi	—	Not Rated	24V DC	EF8314G301	**24W624**
	3/32 in	0.12		200 °F	0 psi	100 psi	100 psi	100 psi	120V AC	EF8320G200	**4ELD9**
	⅛ in	0.25		200 °F	0 psi	50 psi	50 psi	50 psi	120V AC	EF8320G201	**44U323**
4-Way/2-Position, Brass Body - FKM Gaskets											
⅜ in	3/16 in	0.7	3, 3S, 4, 4X, 6, 6P, 7, 9	160 °F	0 psi	125 psi	125 psi	125 psi	120V AC	EF8342G022	**44U328**
4-Way/2-Position, Brass Body - NBR Gaskets											
¼ in	1/16 in	0.09	3, 3S, 4, 4X, 6, 6P, 7, 9	180 °F	10 psi	150 psi	150 psi	150 psi	120V AC	EF8345G001	**3UM18**
	1/16 in	0.09		180 °F	10 psi	150 psi	—	Not Rated	120V AC	EF8345H003	**3UM31**
	3/32 in	0.09		180 °F	10 psi	150 psi	150 psi	150 psi	120V AC	EFHT8345G001	**44U332**
	3/16 in	0.7		160 °F	0 psi	125 psi	100 psi	100 psi	120V AC	EF8342G001	**5JC54**
	3/16 in	0.7		160 °F	0 psi	125 psi	100 psi	100 psi	120V AC	EF8342G001MS	**4ELD6**
	¼ in	0.8		140 °F	10 psi	150 psi	—	Not Rated	24V DC	EF8344G370	**44U330**
⅜ in	3/16 in	0.7		160 °F	0 psi	125 psi	100 psi	100 psi	120V AC	EF8342G003	**5JC58**
	⅜ in	1.4		180 °F	10 psi	150 psi	125 psi	125 psi	120V AC	EF8344G072	**4ELD8**
	⅜ in	1.4		150 °F	10 psi	125 psi	125 psi	125 psi	24V DC	EF8344G072	**44U329**
½ in	⅜ in	1.4		180 °F	10 psi	150 psi	125 psi	125 psi	120V AC	EF8344G074	**3UM16**

4KY41

4KY46

3UM33

3UK43

ASCO Red-Hat®

2-Way Combustion Shut-Off Valves

- Coil insulation class: F

Typical combustible media include natural gas and oil.

Note: Units with Mfr. Models starting with JB have a junction box connection. Mfr. Models starting with SC are DIN connection.

AIR AND FUEL GAS SOLENOID

Lightweight, provide high flow, and ideal for low pressure applications.

FUEL GAS SOLENOID

For control of commercial and industrial gas burners; mount in any position.

FUEL GAS SOLENOID WITH TEST PORT

For control of commercial and industrial gas burners. ⅛" NPT downstream pipe tap with plug for testing.

FUEL OIL SOLENOID

Combustion valves are for the control of both light and heavy oils.

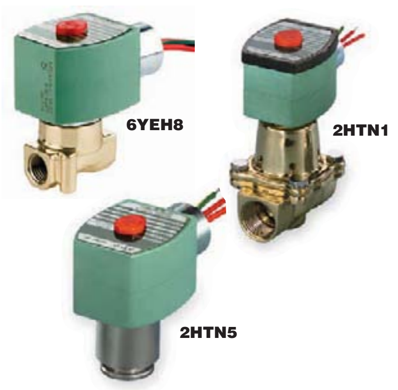
Pipe Size	Orifice Dia.	Cv	NEMA Rating	BtuH	Min. Oper. Press. Differential	Max. Oper. Press. Differential	Ambient Temp. Range	Max. Fluid Temp.	Voltage	Watts	Std.	Mfr. Model	Item No.
Air and Fuel Gas Solenoid Valve, Normally Closed, Aluminum Body - NBR Gaskets													
⅜ in	¾ in	3.4	1, 2, 3, 3S, 4, 4X	183,000	0 psi	50 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, FM, UL	8215G010	**4KY40**
½ in	¾ in	4.4		238,500	0 psi	50 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, FM, UL	8215G020B	**4ELZ3**
	¾ in	4.4		238,500	0 psi	25 psi	32° to 104°F	104 °F	12V DC	11.6 W	CSA, FM, UL	8215G020	**4EKT6**
	¾ in	4.4		238,500	0 psi	50 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, FM, UL	8215G020	**4KY41**
	¾ in	4.4		238,500	0 psi	50 psi	32° to 125°F	125 °F	24V AC	10.1 W	CSA Certified and Meets Applicable CE Directives, UL Listed for Safety Shutoff	SC8215G020	**6FAZ3**
¾ in	¾ in	5.1		247,500	0 psi	50 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, FM, UL	8215G030	**4KY42**
	¾ in	5.1		247,500	0 psi	25 psi	32° to 104°F	104 °F	12V DC	11.6 W	CSA, FM, UL	8215G030	**4EKV8**
1 in	1 ⅝ in	21		1,119,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	FM, UL	SC8215B050	**4EMC4**
	1 ⅝ in	21	1	1,119,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215B050CSA	**4KY43**
1 ½ in	1 ⅝ in	35	1, 2, 3, 3S, 4, 4X	1,900,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	FM, UL	SC8215B070	**4EMC5**
2 ½ in	3 in	117	1	5,821,000 BtuH	0 psi	5 psi	32° to 125°F	125 °F	120V AC	28.2 W	CSA, UL	8215A090 CSA	**4ELZ2**
3 in	3 in	138		7,430,000 BtuH	0 psi	5 psi	32° to 125°F	125 °F	120V AC	28.2 W	CSA, UL	8215A040CSA	**4KY47**
Air and Fuel Gas Solenoid Valve, Normally Open, Aluminum Body - NBR Gaskets													
¾ in	¾ in	4.6	1, 2, 3, 3S, 4, 4X	247,500	0 psi	125 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, UL	8215G033	**4KY52**
1 in	1 ⅝ in	22	1	1,191,750 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, FM, UL	8215C053	**4ELZ9**
	1 ⅝ in	22		1,191,750 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215C053CSA	**4KY48**
1 ¼ in	1 ⅝ in	33		1,793,250 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, FM, UL	8215C063	**4ELZ8**
	1 ⅝ in	33		1,793,250 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215C063CSA	**4KY49**
1 ½ in	1 ⅝ in	37		1,988,250 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215C073CSA	**4KY50**
2 in	2 3/32 in	58		3,100,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, FM, UL	8215C083	**4ELZ7**
	2 3/32 in	58		3,100,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215C083CSA	**4KY51**
Air Solenoid Valve, Normally Closed, Aluminum Body - NBR Gaskets													
2 in	2 3/32 in	60	1	3,251,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215B080CSA	**4KY46**
Fuel Gas Solenoid Valve, Aluminum Body - NBR Gaskets													
1 in	1 ⅝ in	21	1, 2, 3, 3S, 4, 4X	—	0 psi	25 psi	32° to 77°F	104 °F	24V DC	35.1 W	UL and CSA for Safety Shutoff	8215G050-24/DC	**38VC38**
	1 ⅝ in	21		—	0 psi	25 psi	32° to 77°F	104 °F	12V DC	15.8 W	UL and CSA for Safety Shutoff	8215G050-12/DC	**38VC39**
1 ¼ in	1 ⅝ in	32		—	0 psi	25 psi	32° to 77°F	104 °F	12V DC	35.1 W	UL and CSA for Safety Shutoff	8215G060-12/DC	**38VC40**
1 ½ in	1 ⅝ in	35		—	0 psi	25 psi	32° to 77°F	104 °F	12V DC	35.1 W	UL and CSA for Safety Shutoff	8215G070-12/DC	**38VC41**
	1 ⅝ in	35		—	0 psi	25 psi	32° to 77°F	104 °F	24V DC	35.1 W	UL and CSA for Safety Shutoff	8215G070-24/DC	**38VC42**
2 in	2 3/32 in	60		—	0 psi	15 psi	32° to 77°F	104 °F	24V DC	35.1 W	UL and CSA for Safety Shutoff	8215G080-24/DC	**38VC43**
Fuel Gas Solenoid Valve, Normally Closed, Brass Body - FKM Gaskets													
⅛ in	7/64 in	0.16	1, 2, 3, 3S, 4, 4X	9,000	0 psi	65 psi	-22° to 140°F	180 °F	24V AC	6.3 W	CSA, NSF Certified, UL	U8256A091V	**4ELA6**
Fuel Gas Solenoid Valve, Normally Closed, Brass Body - NBR Gaskets													
½ in	7/16 in	2.8	1, 2, 3, 3S, 4, 4X	151,000	0 psi	8 psi	32° to 125°F	125 °F	120V AC	10.1 W	CSA, FM, UL	8030G069	**4EMC7**
	⅝ in	3.6		281,000	5 psi	250 psi	-20° to 125°F	125 °F	120V AC	17.1 W	CSA, FM, UL	8210H106B	**6WTV6**
Fuel Gas Solenoid Valve with Test Port, Normally Closed, Aluminum Body - NBR Gaskets													
⅛ in	5/16 in	1	1, 2, 3, 3S, 4, 4X	53,700	0 psi	15 psi	-40° to 125°F	125 °F	120V AC	6.1 W	CSA for Safety Shutoff, FM, UL	8040H006	**5LU21**
¼ in	5/16 in	1.1		59,000	0 psi	15 psi	-40° to 125°F	125 °F	120V AC	6.1 W	CSA for Safety Shutoff, FM, UL	8040H007	**5LU22**
⅜ in	5/16 in	1.2		64,400	0 psi	15 psi	-40° to 125°F	125 °F	120V AC	6.1 W	CSA for Safety Shutoff, FM, UL	8040H008	**3UM33**
½ in	¾ in	4.4		238,500	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	17.1 W	CSA, FM, UL	8214G020	**3UM27**
	¾ in	5.4		291,000	0 psi	2 psi	-40° to 125°F	125 °F	120V AC	10.1 W	CSA for Safety Shutoff, FM, UL	8040G022	**5LU23**
¾ in	¾ in	5.1		247,500	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	17.1 W	CSA, FM, UL	8214G030	**3UM28**
	¾ in	9.5		512,000	0 psi	2 psi	-40° to 125°F	125 °F	24V AC	10.1 W	CSA for Safety Shutoff, UL	8040G023	**4ELZ5**
	¾ in	9.5		512,000	0 psi	2 psi	-40° to 125°F	125 °F	120V AC	10.1 W	CSA for Safety Shutoff, FM, UL	8040G023	**5LU24**
	1 ⅝ in	11	1	593,200	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, FM, UL	JB8214235VICSA	**6YEK6**
	1 ⅝ in	11		593,200	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, UL	JB8214235CSA	**6YEK8**
1 in	1 ⅝ in	21		1,132,300 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, FM, UL	JB8214250CCSA	**6YEK7**
	1 ⅝ in	21		1,132,300 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, UL	JB8214250CSA	**6YEL2**
1 ¼ in	1 ⅝ in	32		1,725,500 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, UL	JB8214260CSA	**6YEL1**
1 ½ in	1 ⅝ in	35		1,887,200 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, UL	JB8214270CSA	**6YEK9**
2 in	2 3/32 in	55		2,940,500 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA for Safety Shutoff, UL	JB8214280CSA	**6YEL0**
Fuel Gas Solenoid Valve with Test Port, Normally Open, Aluminum Body - NBR Gaskets													
½ in	¾ in	4.4	1, 2, 3, 3S, 4, 4X	206,250	0 psi	5 psi	32° to 125°F	125 °F	120V AC	17.1 W	CSA, FM, UL	8214G023	**4EMA1**
¾ in	¾ in	5.1		247,500	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	17.1 W	CSA, UL	8214G033	**3UM29**
	1 ⅝ in	11	1	659,000	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA, FM, UL	JB8214037CSA	**4EMA2**
1 in	1 ⅝ in	21		1,179,000 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA, UL	JB8214053CSA	**3UK43**
1 ¼ in	1 ⅝ in	32		1,538,750 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA, UL	JB8214063CSA	**3UK44**
1 ½ in	1 ⅝ in	35		1,615,250 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA, UL	JB8214073CSA	**3UK45**
2 in	2 3/32 in	60		2,924,500 BtuH	0 psi	5 psi	-40° to 125°F	125 °F	120V AC	20 W	CSA, UL	JB8214083CSA	**3UK46**
Fuel Oil Solenoid Valve, Normally Closed, Brass Body - FKM Gaskets													
½ in	¼ in	1.2	1	—	0 psi	110 psi	95° to 104°F	250 °F	120V AC	15.4 W	CSA, FM, UL	8266D069V	**4EKT3**
Fuel Oil Solenoid Valve, Normally Closed, Brass Body - Stainless Steel Gaskets													
⅜ in	¼ in	1.2	1	—	0 psi	110 psi	95° to 104°F	250 °F	120V AC	15.4 W	CSA for Safety Shutoff, FM, UL	JB8266D023L	**2LBG6**
½ in	5/16 in	1.8		—	0 psi	70 psi	95° to 104°F	250 °F	120V AC	15.4 W	CSA for Safety Shutoff, FM, UL	JB8266D077L	**2LBG7**
General Service Media Air/Fuel Gas Solenoid Valves, Normally Closed, Aluminum Body - NBR Gaskets													
1 ¼ in	1 ⅝ in	32	1	1,730,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215B060CSA	**4KY44**
1 ½ in	1 ⅝ in	35		1,900,000 BtuH	0 psi	25 psi	32° to 125°F	125 °F	120V AC	15.4 W	CSA, UL	8215B070CSA	**4KY45**

ASCO Red-Hat
2-Way Normally Closed and Normally Open Steam and Hot Water Solenoid Valves

- Brass body
- NEMA rating: 1, 2, 3, 3S, 4, 4X

For high-temperature fluid applications involving steam or hot water. Coil included.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Hot Water	Max. Oper. Press. Differential Steam	Max. Fluid Temp. Hot Water	Max. Fluid Temp. Steam	Ambient Temp. Range	Voltage	Watts	Mfr. Model	Item No.
Hot Water Solenoid Valve													
Normally Closed													
⅜ in	⅝ in	3.0	F	0 psi	100 psi	—	210 °F	Not Rated	—	120V AC	10.1 W	8210G093HW	**3UL11**
	⅝ in	3.0	F	5 psi	125 psi	—	210 °F	Not Rated	—	120V AC	6.1 W	8210G001HW	**3UK49**
½ in	⅝ in	4.0	F	0 psi	100 psi	—	210 °F	Not Rated	—	120V AC	10.1 W	8210G094HW	**3UL14**
	⅝ in	4.0	F	5 psi	125 psi	—	210 °F	Not Rated	—	120V AC	6.1 W	8210G002HW	**3UK52**
¾ in	¾ in	5.0	F	0 psi	100 psi	—	210 °F	Not Rated	—	120V AC	10.1 W	8210G095HW	**3UL20**
	¾ in	5.5	F	5 psi	150 psi	—	210 °F	Not Rated	125°F	120V AC	6.1 W	8221G005HW	**5LU28**
Steam and Hot Water Solenoid Valve													
Normally Open													
¾ in	¾ in	5.0	H	5 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	16.1 W	8220G095	**4EME4**
Normally Closed													
¼ in	⁵⁄₃₂ in	0.52	H	0 psi	210 psi	110 psi	210 °F	344 °F	131°F	120V AC	10.1 W	8263H300	**6YEJ9**
⅜ in	⁵⁄₃₂ in	0.52	H	0 psi	200 psi	110 psi	210 °F	344 °F	131°F	120V AC	10.1 W	8263H305	**6YEK2**
	½ in	4.4	H	0 psi	100 psi	50 psi	210 °F	300 °F	125°F	24V DC	15.6 W	8220G402	**4NWZ3**
	½ in	4.4	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	6.1 W	8220G401	**4NWZ1**
	½ in	4.4	H	5 psi	150 psi	125 psi	210 °F	353 °F	140°F	120V AC	10.1 W	8220G403	**4NWZ2**
½ in	½ in	4.7	H	0 psi	150 psi	50 psi	210 °F	300 °F	125°F	24V DC	15.6 W	8220G405	**4NWZ6**
	½ in	4.7	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	6.1 W	8220G404	**4NWZ4**
	½ in	4.7	H	5 psi	150 psi	125 psi	210 °F	353 °F	140°F	120V AC	10.1 W	8220G406	**4NWZ5**
	½ in	4.7	H	5 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	10.1 W	SU8220G406	**6WTV7**
¾ in	¾ in	8.8	H	0 psi	150 psi	50 psi	210 °F	300 °F	125°F	24V DC	15.6 W	8220G408	**4NWZ9**
	¾ in	8.8	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	6.1 W	8220G407	**4NWZ7**
	¾ in	8.8	H	5 psi	150 psi	125 psi	210 °F	353 °F	140°F	120V AC	10.1 W	8220G409	**4NWZ8**
1 in	1 in	11.5	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	10.1 W	8220G410	**4NXA1**
	1 in	11.5	H	5 psi	150 psi	125 psi	210 °F	353 °F	140°F	120V AC	10.1 W	8220G411	**4NXA2**
1 ¼ in	1 ⅛ in	15.0	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	10.1 W	8220G009	**5LU31**
	1 ⅛ in	15.0	H	5 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	10.1 W	8220G027	**5LU44**
1 ½ in	1 ¼ in	22.5	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	10.1 W	8220G011	**5LU32**
	1 ¼ in	22.5	H	5 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	10.1 W	8220G029	**5LU45**
2 in	1 ¾ in	43.0	F	5 psi	150 psi	50 psi	210 °F	300 °F	125°F	120V AC	10.1 W	8220G013	**5LU33**
	1 ¾ in	43.0	H	5 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	10.1 W	8220G031	**5LU46**
Steam Solenoid Valve													
Normally Open													
⅜ in	⅜ in	5.1	H	0 psi	—	30 psi	—	280 °F	125°F	120V AC	16.1 W	8267G011	**4EME7**
½ in	⅜ in	4.5	H	0 psi	—	15 psi	—	250 °F	125°F	120V AC	16.1 W	8267G015	**4EME6**
¾ in	½ in	9.7	H	0 psi	—	15 psi	—	250 °F	125°F	120V AC	16.1 W	8267G023	**4EME5**
Normally Closed													
¼ in	⅜ in	1.2	H	1 psi	—	125 psi	—	353 °F	125°F	120V AC	6.1 W	8222G070	**5LU34**
⅜ in	⅜ in	2.5	H	1 psi	—	125 psi	—	353 °F	125°F	120V AC	6.1 W	8222G074	**5LU36**
	⅝ in	3.0	F	0 psi	150 psi	125 psi	210 °F	353 °F	125°F	120V AC	10.1 W	8222G093	**4EME8**
½ in	⅜ in	2.5	F	1 psi	—	80 psi	—	324 °F	125°F	120V AC	6.1 W	8222G066	**5LU38**
	⅜ in	2.5	H	1 psi	—	125 psi	—	353 °F	125°F	120V AC	6.1 W	8222G076	**5LU39**
	⅜ in	4.5	H	0 psi	—	15 psi	—	250 °F	125°F	120V AC	16.1 W	8267G007	**4EMD2**
	½ in	3.6	H	2 psi	—	125 psi	—	353 °F	—	120V AC	10.1 W	8222G047	**3UM24**
	⅝ in	4.0	F	0 psi	—	50 psi	—	300 °F	125°F	120V AC	10.1 W	8222G094	**5LU40**
	⅝ in	4.0	H	0 psi	—	125 psi	—	353 °F	125°F	120V AC	17.1 W	8222G002	**4EMD3**
¾ in	½ in	4.6	H	2 psi	—	125 psi	—	353 °F	—	120V AC	10.1 W	8222G049	**3UM25**
	½ in	4.6	H	5 psi	—	200 psi	—	388 °F	125°F	120V AC	10.1 W	8222G005	**5LU41**
	½ in	9.7	H	0 psi	—	15 psi	—	250 °F	125°F	120V AC	16.1 W	8267G019	**4EMD7**
	¾ in	5.0	F	0 psi	—	50 psi	—	300 °F	125°F	120V AC	10.1 W	8222G095	**5LU42**
	¾ in	5.0	H	0 psi	—	125 psi	—	353 °F	125°F	120V AC	17.1 W	8222G003	**5LU43**



2-Way Cryogenic Solenoid Valves

ASCO Red-Hat

- NEMA rating: 1, 2, 3, 3S, 4, 4X

Normally closed valves are specifically designed to handle cryogenic fluids, including liquid nitrogen, liquid argon, and liquid oxygen. All are degreased, cleaned, tested free of moisture, and blacklight tested for hydrocarbons. Coil included. For use in frozen food and cranial/genetic preservation applications. CSA and CE Certified.

Pipe Size	Seal Material	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
Brass Body												
⅛ in	PTFE	⅛ in	0.35	F	0 psi	155 psi	155 psi	155 psi	150 °F	120V AC	8263H240LT	**6YEJ4**
¼ in	PTFE	⅛ in	0.35	F	0 psi	155 psi	155 psi	155 psi	150 °F	120V AC	8262H232LT	**6YEJ1**
	PTFE	⁷⁄₃₂ in	0.73	F	0 psi	100 psi	100 psi	100 psi	150 °F	120V AC	8262H114LT	**6YEH8**
	PTFE	⁷⁄₃₂ in	0.73	H	0 psi	42 psi	42 psi	42 psi	120 °F	24V DC	8262H114LT	**6YEH9**
	PTFE	⁹⁄₃₂ in	0.88	F	0 psi	40 psi	40 psi	40 psi	150 °F	120V AC	8262H210LT	**6YEJ3**
	NBR	⁹⁄₃₂ in	0.88	F	0 psi	18 psi	18 psi	—	150 °F	24V AC	8262H210LT	**6ZAK5**
⅜ in	PTFE	⁷⁄₃₂ in	0.73	F	0 psi	90 psi	—	—	150 °F	120V AC	8263H206LT	**6YEJ0**
	PTFE	⁹⁄₃₂ in	0.88	F	0 psi	40 psi	—	—	150 °F	120V AC	8263H125LT	**6YEJ2**
½ in	—	⅝ in	3.8	H	0 psi	90 psi	—	—	150 °F	120V AC	8222G002LT	**2HTN1**
Nickel-Plated Brass Body												
⅛ in	PTFE	³⁄₆₄ in	0.06	F	0 psi	1,000 psi	—	—	120 °F	120V AC	8264G009	**2HTN5**
	PTFE	³⁄₃₂ in	0.2	F	0 psi	300 psi	—	—	120 °F	120V AC	8264G010	**2HTN7**

ASCO
2-Way Normally Closed Angle Body Piston Valves

- Max. fluid temp.: 366°F

Auxiliary-piloted piston valves feature cold-rolled stainless steel shaft, spring-loaded stem seal, and DuPont Viton shaft wiper. Require 120V, 60 Hz solenoid valve. Designed to handle water, light slurries, and steam.

Pipe Size	Orifice Dia.	Cv	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Steam	Min. Pilot Pressure	Max. Pilot Pressure	Mfr. Model	Item No.
Bronze Body								
½ in	½ in	5.7	240 psi	150 psi	38 psi	150 psi	8290B002	**4ELY7**
	½ in	5.7	240 psi	150 psi	60 psi	150 psi	8290A384	**2HTR7**
¾ in	¾ in	11	150 psi	150 psi	60 psi	150 psi	8290A385	**2HTR6**
	¾ in	11	240 psi	150 psi	60 psi	150 psi	8290B005	**1WG91**
1 in	1 in	15	90 psi	90 psi	60 psi	150 psi	8290A386	**2HTT1**
	1 in	19	150 psi	150 psi	60 psi	150 psi	8290B010	**1WG92**
1 ¼ in	1 ¼ in	32	90 psi	90 psi	60 psi	150 psi	8290A016	**4ELX9**
	1 ¼ in	32	180 psi	150 psi	60 psi	150 psi	8290A017	**3UK37**
1 ½ in	1 ½ in	52	60 psi	60 psi	60 psi	150 psi	8290A020	**4ELY1**
	1 ½ in	52	120 psi	120 psi	60 psi	150 psi	8290A021	**3UK38**
2 in	2 in	68	40 psi	40 psi	60 psi	150 psi	8290A024	**4ELY2**
	2 in	68	90 psi	90 psi	60 psi	150 psi	8290A025	**3UK36**
316L Stainless Steel Body								
⅜ in	⅜ in	2.3	240 psi	150 psi	60 psi	150 psi	8290A791	**2HTR8**
½ in	½ in	4.1	180 psi	150 psi	60 psi	150 psi	8290A792	**2HTR9**
	½ in	5.7	240 psi	150 psi	38 psi	150 psi	8290B045	**4ELY8**
	½ in	5.7	240 psi	150 psi	60 psi	150 psi	8290A393	**4ELY5**
¾ in	¾ in	7.6	90 psi	90 psi	60 psi	150 psi	8290A793	**2HTT2**
	¾ in	11	240 psi	150 psi	60 psi	150 psi	8290B048	**4ELY9**
1 in	1 in	15	90 psi	90 psi	60 psi	150 psi	8290A395	**4ELY6**
	1 in	19	150 psi	150 psi	60 psi	150 psi	8290B053	**4ELZ1**
1 ½ in	1 ½ in	52	120 psi	120 psi	60 psi	150 psi	8290A064	**4ELY3**
2 in	2 in	68	90 psi	90 psi	60 psi	150 psi	8290A068	**4ELY4**

2- and 3-Way Next Generation Solenoid Valves

ASCO™ Red-Hat®

6YEJ5

- Max. fluid temp.: 180°F
- Coil insulation class: H
- Seal material: NBR

Can accept both AC and DC voltages; increase DC pressure ratings to AC levels. Feature lower power operation, voltage ranging, and built-in surge suppression. Design helps eliminate AC hum. Coil included.

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
2-Way/2-Position, Normally Closed, Brass Body -NBR Gaskets											
1/4 in	1/8 in	0.35	1, 2, 3, 3S, 4, 4X	0 psi	540 psi	395 psi	360 psi	180 °F	100 to 240V AC/DC	8262R232	**6YEJ7**
1/4 in	5/32 in	0.52	1, 2, 3, 3S, 4, 4X	0 psi	300 psi	225 psi	225 psi	180 °F	100 to 240V AC/DC	8262R202	**6YEJ5**
1/4 in	7/32 in	0.73	1, 2, 3, 3S, 4, 4X	0 psi	125 psi	125 psi	125 psi	180 °F	100 to 240V AC/DC	8262R208	**6YEJ6**
3/8 in	5/8 in	3.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	Not Rated	180 °F	100 to 240V AC/DC	8210P093	**1ALA6**
1/2 in	5/8 in	4.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	Not Rated	180 °F	100 to 240V AC/DC	8210P094	**1ALA8**
3/4 in	3/4 in	5.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	Not Rated	180 °F	100 to 240V AC/DC	8210P095	**1ALB3**
1 in	1 in	13.0	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	150 psi	100 psi	180 °F	100 to 240V AC/DC	8210P004	**1ALB7**
1 1/4 in	1 1/8 in	15.0	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	150 psi	100 psi	180 °F	100 to 240V AC/DC	8210P008	**4ELL4**
1 1/2 in	1 1/4 in	22.5	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	150 psi	100 psi	180 °F	100 to 240V AC/DC	8210P022	**4ELL6**
2 in	1 3/4 in	43.0	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	125 psi	90 psi	180 °F	100 to 240V AC/DC	8210P100	**1ALB9**
2-Way/2-Position, Normally Closed, Stainless Steel Body -NBR Gaskets											
1/2 in	5/8 in	4.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180 °F	100 to 240V AC/DC	8210P087	**1ALB1**
3/4 in	5/8 in	4.5	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180 °F	100 to 240V AC/DC	8210P088	**1ALB5**
2-Way/2-Position, Normally Open, Brass Body -NBR Gaskets											
3/8 in	5/8 in	3.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180 °F	100 to 240V AC/DC	8210P033	**4ELL8**
1/2 in	5/8 in	4.0	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180 °F	100 to 240V AC/DC	8210P034	**4ELN1**
3/4 in	3/4 in	5.5	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	125 psi	180 °F	100 to 240V AC/DC	8210P035	**4ELN3**
3-Way/2-Position, Normally Closed, Brass Body -NBR Gaskets											
1/4 in	7/64 in	0.23	4X	0 psi	150 psi	150 psi	150 psi	194 °F	100/240V AC	8320R184	**53AY51**
1/4 in	1/8 in	0.25	4X	0 psi	90 psi	90 psi	90 psi	194 °F	100/240V AC	8320R186	**53AY49**
3/4 in	11/16 in	4.8	1, 2, 3, 3S, 4, 4X	10 psi	250 psi	250 psi	Not Rated	180 °F	100 to 240V AC/DC	8316P074	**24W653**
3-Way/2-Position, Universal, Brass Body -NBR Gaskets											
1/4 in	1/16 in	0.09	4X	0 psi	160 psi	160 psi	160 psi	194 °F	100/240V AC	8320R172	**53AY50**
1/4 in	7/64 in	0.12	4X	0 psi	100 psi	100 psi	100 psi	194 °F	100/240V AC	8320R174	**53AY52**

4ELL4

1ALB1

3-Way Quick Exhaust Solenoid Valves

ASCO™ Red-Hat®

- Brass body
- Seal material: NBR

Have 3 pipe connections and 2 orifices. Coil included. UL Listed and CSA Certified.

Normally Closed—When the valve is de-energized, the pressure port is closed and the exhaust port is connected to the cylinder port. When the valve is energized, the exhaust port is closed and the pressure port is connected to the cylinder port.

Normally Open—When the valve is de-energized, the pressure port is connected to the cylinder port and the exhaust port is closed. When the valve is energized, the pressure port is closed and the cylinder port is connected to the exhaust port.

Universal—Can be connected in either Normally Closed or Normally Open position. Can also be used to select 1 of 2 fluids, or to divert flow from 1 port to another.

Pipe Size	Orifice Dia.	Cv	NEMA Rating	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Voltage	Mfr. Model	Item No.
Normally Closed											
1/8 in	1/16 in	0.09	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	125 psi	125 psi	180 °F	120V AC	8320G013	**3UL87**
1/4 in	3/32 in	0.12	1, 2, 3, 3S, 4, 4X	0 psi	150 psi	150 psi	150 psi	200 °F	120V AC	8320G184	**3UL95**
1/4 in	3/32 in	0.2	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	150 psi	95 psi	180 °F	120V AC	8317G035	**3UL82**
1/4 in	3/32 in	0.2	1, 2, 3, 3S, 4, 4X	5 psi	150 psi	150 psi	Not Rated	180 °F	120V AC	8317G023	**44U288**
1/4 in	3/32 in	0.2	3, 3S, 4, 4X, 6, 6P, 7, 9	5 psi	75 psi	30 psi	30 psi	180 °F	24V DC	EF8317G035	**44U318**
3/8 in	9/32 in	0.8	1, 2, 3, 3S, 4, 4X	10 psi	200 psi	200 psi	200 psi	180 °F	120V AC	8321G002	**3UM06**
Normally Open											
1/4 in	9/32 in	0.8	1, 2, 3, 3S, 4, 4X	10 psi	200 psi	200 psi	200 psi	180 °F	120V AC	8321G003	**3UM08**
Universal											
1/4 in	1/16 in	0.09	1, 2, 3, 3S, 4, 4X	0 psi	125 psi	125 psi	130 psi	200 °F	120V AC	8320G172	**3UL89**
1/4 in	3/32 in	0.12	1, 2, 3, 3S, 4, 4X	0 psi	100 psi	100 psi	100 psi	200 °F	120V AC	8320G174	**3UL91**

3UL87

3UL95

3UM06

4-Way Solenoid Valves

ASCO™ Red-Hat®

- Coil insulation class: F
- NEMA rating: 1, 2, 3, 3S, 4, 4X
- Coil enclosure voltage: 120VAC, except 44U312 and 44U309 are 24VDC

Single-solenoid valves operate double-acting cylinders. Feature 4 or 5 pipe connections: 1 pressure, 2 cylinder, and 1 or 2 exhausts. Mount in any position. Coil included.

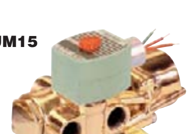
Note: 4-way valves have differential psi for water.

Pipe Size	Orifice Dia.	Cv	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Water	Light Oil	Max. Fluid Temp.	Watts	Overall Length	Mfr. Model	Item No.	
Aluminum Body -Polyethylene Gaskets												
1/4 in	1/16 in	0.1	0 psi	150 psi	—	145 psi	130 °F	17.1 W	1 15/16 in	JSP8340G001	**44U334**	
1/4 in	5/64 in	0.1	0 psi	150 psi	—	Not Rated	130 °F	17.1 W	1 15/16 in	8340G001	**44U302**	
Brass Body -NBR Gaskets												
1/4 in	1/16 in	0.09	10 psi	150 psi	150 psi	150 psi	104 °F	11.6 W	2 1/16 in	8345G001	**44U312**	
1/4 in	1/16 in	0.09	10 psi	150 psi	150 psi	150 psi	180 °F	10.1 W	2 1/16 in	8345G001MO	**44U313**	
1/4 in	1/16 in	0.09	10 psi	150 psi	150 psi	150 psi	180 °F	10.1 W	3 in	8345G001	**3UM17**	*
1/4 in	1/16 in	0.09	10 psi	150 psi	—	Not Rated	180 °F	10.1 W	3 in	8345H003	**3UM30**	*
1/4 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	2 15/16 in	8342G001	**5JC52**	
1/4 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	3 1/8 in	8342G001MS	**4ELD5**	
1/4 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	16.1 W	2 5/8 in	8342G020	**24W661**	
1/4 in	1/4 in	0.8	10 psi	150 psi	125 psi	125 psi	180 °F	10.1 W	4 13/16 in	8344G070	**24W664**	
1/4 in	1/4 in	0.8	10 psi	150 psi	150 psi	125 psi	150 °F	11.6 W	4 3/4 in	8344G070	**44U309**	
1/4 in	1/4 in	0.8	10 psi	150 psi	150 psi	125 psi	180 °F	10.1 W	4 3/4 in	8344G070MO	**44U310**	
3/8 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	2 15/16 in	8342G003	**5JC56**	
3/8 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	2 5/8 in	8342G003P	**24W662**	
3/8 in	3/8 in	0.8	10 psi	250 psi	250 psi	250 psi	180 °F	17.1 W	4 13/16 in	8344G001	**24W670**	
3/8 in	3/8 in	1.4	10 psi	150 psi	125 psi	125 psi	180 °F	10.1 W	6 in	8344G072	**4ELD7**	
1/2 in	3/8 in	1.4	10 psi	150 psi	125 psi	125 psi	180 °F	10.1 W	3 3/16 in	8344G074	**3UM15**	*
1/2 in	3/8 in	1.4	10 psi	150 psi	125 psi	125 psi	180 °F	10.1 W	6 1/8 in	8344G074MO	**24W659**	
1/2 in	3/8 in	1.4	10 psi	250 psi	200 psi	125 psi	180 °F	6.1 W	6 1/16 in	8344G082	**44U311**	
1/2 in	3/8 in	1.4	10 psi	250 psi	250 psi	250 psi	180 °F	17.1 W	6 1/16 in	8344G027	**44U307**	
Brass Body -PTFE Gaskets												
1/4 in	3/16 in	0.7	0 psi	125 psi	—	Not Rated	160 °F	20.1 W	2 1/16 in	8342G501	**44U303**	
Stainless Steel Body -PTFE Gaskets												
1/4 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	2 1/16 in	8342G701	**44U304**	
3/8 in	3/16 in	0.7	0 psi	125 psi	100 psi	100 psi	160 °F	20.1 W	2 1/16 in	8342G703	**44U305**	

** A minimum operating pressure differential must be maintained between the pressure and exhaust ports. Supply and exhaust piping must be full area, unrestricted. Flow controls and other components must be installed in the cylinder lines only.*

3UM17

5JC52



3UM15

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Details on page A1.

53AY01

53AY38

ASCO Red-Hat®

Lead-Free, 2-Way Normally Closed Solenoid Valves

- Max.fluid temp.: 180°F
- NEMA rating: 4X

These durable solenoid valves feature a brass body and a rugged design that provides long life and low internal leakage. This normally closed, 2-way valve has 1 inlet and 1 outlet pipe connection and is closed when de-energized and open when energized. Suitable for use with air, inert gas, light oil, and potable water.

Note: See Mfr. Model number for voltage that applies to each solenoid valve.

Pipe Size	Orifice Dia.	Cv	Coil Insulation Class	Min. Oper. Press. Differential	Max. Oper. Press. Differential Air, Inert Gas	Max. Oper. Press. Differential Water	Max. Oper. Press. Differential Light Oil	Watts	Mfr. Model	Item No.
1/8 in	1/8 in	0.3	F	0 psi	185 psi	180 psi	120 psi	6.1 W	8262H002LF 120/60, 110/50	**53AY01**
		0.3	F	0 psi	185 psi	180 psi	120 psi	6.1 W	8262H002LF 240/60, 220/50	**53AY02**
		0.3	H	0 psi	130 psi	110 psi	95 psi	10.6 W	8262H002LF 12/DC	**53AY03**
		0.3	H	0 psi	130 psi	110 psi	95 psi	10.6 W	8262H002LF 24/DC	**53AY04**
1/4 in	3/32 in	0.18	F	0 psi	370 psi	330 psi	160 psi	6.1 W	8262H020LF 120/60, 110/50	**53AY05**
		0.18	F	0 psi	370 psi	330 psi	160 psi	6.1 W	8262H020LF 240/60, 220/50	**53AY06**
		0.18	H	0 psi	235 psi	160 psi	160 psi	10.6 W	8262H020LF 12/DC	**53AY07**
		0.18	H	0 psi	235 psi	160 psi	160 psi	10.6 W	8262H020LF 24/DC	**53AY08**
	1/8 in	0.3	F	0 psi	185 psi	180 psi	90 psi	6.1 W	8262H022LF 120/60, 110/50	**53AY09**
		0.3	F	0 psi	185 psi	180 psi	90 psi	6.1 W	8262H022LF 240/60, 220/50	**53AY10**
		0.3	H	0 psi	130 psi	110 psi	90 psi	10.6 W	8262H022LF 12/DC	**53AY11**
		0.3	H	0 psi	130 psi	110 psi	90 psi	10.6 W	8262H022LF 24/DC	**53AY12**
	7/32 in	0.63	F	0 psi	100 psi	100 psi	100 psi	10.1 W	8262H208LF 120/60, 110/50	**53AY13**
		0.63	F	0 psi	100 psi	100 psi	100 psi	10.1 W	8262H208LF 240/60, 220/50	**53AY14**
		0.63	H	0 psi	35 psi	35 psi	35 psi	11.6 W	8262H208LF 12/DC	**53AY15**
		0.63	H	0 psi	35 psi	35 psi	35 psi	11.6 W	8262H208LF 24/DC	**53AY16**
3/8 in	5/32 in	0.45	F	0 psi	210 psi	185 psi	100 psi	10.1 W	8263H200LF 120/60, 110/50	**53AY17**
		0.45	F	0 psi	210 psi	185 psi	100 psi	10.1 W	8263H200LF 240/60, 220/50	**53AY18**
		0.45	H	0 psi	65 psi	63 psi	50 psi	11.6 W	8263H200LF 12/DC	**53AY19**
		0.45	H	0 psi	65 psi	63 psi	50 psi	11.6 W	8263H200LF 24/DC	**53AY20**
1/2 in	5/8 in	4.0	F	0 psi	40 psi	40 psi	—	11.6 W	8210G094LF 12/DC	**53AY27**
		4.0	F	0 psi	40 psi	40 psi	—	11.6 W	8210G094LF 24/DC	**53AY28**
		4.0	F	0 psi	125 psi	100 psi	100 psi	11.6 W	8210G002LF 12/DC	**53AY23**
		4.0	F	0 psi	125 psi	100 psi	100 psi	11.6 W	8210G002LF 24/DC	**53AY24**
		4.0	F	0 psi	150 psi	150 psi	—	10.1 W	8210G094LF 120/50, 110/60	**53AY25**
		4.0	F	0 psi	150 psi	150 psi	—	10.1 W	8210G094LF 240/60, 220/50	**53AY26**
		4.0	F	5 psi	200 psi	150 psi	135 psi	6.1 W	8210G002LF 120/60, 110/50	**53AY21**
		4.0	F	0 psi	200 psi	150 psi	135 psi	6.1 W	8210G002LF 240/60, 220/60	**53AY22**
3/4 in	3/4 in	5.0	F	0 psi	40 psi	4 psi	—	11.6 W	8210G095LF 12/DC	**53AY35**
		5.0	F	0 psi	40 psi	40 psi	40 psi	11.6 W	8210G095LF 24/DC	**53AY36**
		5.0	F	5 psi	100 psi	90 psi	75 psi	11.6 W	8210G009LF 12/DC	**53AY31**
		5.0	F	5 psi	100 psi	90 psi	75 psi	11.6 W	8210G009LF 24/DC	**53AY32**
		5.0	F	5 psi	125 psi	125 psi	125 psi	6.1 W	8210G009LF 120/60, 110/50	**53AY29**
		5.0	F	5 psi	125 psi	125 psi	125 psi	6.1 W	8210G009LF 240/60, 220/50	**53AY30**
		5.0	F	0 psi	150 psi	150 psi	—	10.1 W	8210G095LF 120/60, 110/50	**53AY33**
		5.0	F	0 psi	150 psi	150 psi	—	10.1 W	8210G095LF 240/60, 220/50	**53AY34**
1 in	1 in	13.0	F	5 psi	125 psi	100 psi	125 psi	11.6 W	8210G004LF 24/DC	**53AY40**
		13.0	F	5 psi	150 psi	100 psi	150 psi	6.1 W	8210G004LF 120/60, 110/50	**53AY37**
		13.0	F	5 psi	150 psi	100 psi	150 psi	6.1 W	8210G004LF 240/60, 220/50	**53AY38**
		13.0	F	5 psi	150 psi	100 psi	150 psi	11.6 W	8210G004LF 12/DC	**53AY39**

PLAST-O-MATIC VALVES, INC.

PVC and Polypropylene Solenoid Valves

- Max. fluid temp: 140°F PVC, 180°F polypropylene

Feature an innovative Fail Dry design that provides a visual warning of seal malfunction. Bellows barrier-type dynamic seal helps prevent fugitive emissions from leaking. Rugged thermoplastic body resists corrosion and has no wetted metal parts. Valves are 2-way and 3-way with spring return. Normally closed and direct-acting with a push-pull plunger design. Can handle pressure drain or vacuum applications (3-way pressure only), without pressure to aid in opening the valve. Pilot-operated valves require a minimum differential of 5 psi. For use in severe service applications with most liquids, including acids, caustics, chlorine solutions, solvents, and ultra-pure fluids. Use with Replacement Solenoid Valve Coils 11K485 to 11K492, sold separately on Grainger.com.

39P432

11K457

Pipe Size	Orifice Dia.	Cv	Min. Oper. Press. Differential	Safe Working Water Press.	Body Material - Valves: PVC Item No.	Body Material - Valves: Polypropylene Item No.
Direct Acting, 2-Way/2-Position, Normally Closed						
1/4 in	3/16 in	0.5	0 psi	140 psi	**11K455**	—
	1/4 in	0.8	0 psi	70 psi	**11K456**	**11K460**
	3/8 in	1.2	0 psi	140 psi	**39P432**	**39P434**
1/2 in	3/16 in	0.5	0 psi	140 psi	**11K457**	**11K461**
	1/4 in	0.8	0 psi	70 psi	**11K458**	**11K462**
	3/8 in	1.2	0 psi	140 psi	**39P433**	**39P435**
	3/8 in	2	0 psi	125 psi	**39P436**	**39P439**
3/4 in	15/32 in	3.2	0 psi	58 psi	**39P437**	**39P440**
1 in	21/32 in	4.2	0 psi	15 psi	**39P438**	**39P441**
Direct Acting, 3-Way/2-Position, Universal						
1/4 in	3/16 in	0.52	0 psi	70 psi	**39P445**	—
	1/4 in	0.61	0 psi	40 psi	**39P446**	—
Pilot Operated, 2-Way/2-Position, Normally Closed						
1/2 in	63/64 in	5.2	5 psi	140 psi	**11K463**	**11K475**
3/4 in	63/64 in	7.6	5 psi	140 psi	**11K465**	**11K477**
1 in	63/64 in	9.5	5 psi	140 psi	**11K467**	**11K479**
1 1/2 in	1 15/16 in	28	5 psi	140 psi	**11K469**	**11K481**
2 in	1 15/16 in	35	5 psi	140 psi	**11K471**	**11K483**
3 in	3 in	80	5 psi	140 psi	**11K473**	—
Pilot Operated, 2-Way/2-Position, Normally Closed - EPDM Gaskets						
1/2 in	63/64 in	5.2	5 psi	140 psi	**11K464**	**11K476**
3/4 in	63/64 in	7.6	5 psi	140 psi	**11K466**	**11K478**
1 in	63/64 in	9.5	5 psi	140 psi	**11K468**	**11K480**
1 1/2 in	1 15/16 in	28	5 psi	140 psi	**11K470**	**11K482**
2 in	1 15/16 in	35	5 psi	140 psi	**11K472**	**11K484**
3 in	3 in	80	5 psi	140 psi	**11K474**	—

HAYWARD®

SV Series True-Union PVC and CPVC Solenoid Valves

3CDZ4

- 120VAC
- Max. pressure: 120 psi
- Max. flow: 5 fps

Socket/threaded connection operates with no pressure differential; made for operation in harsh, corrosive conditions. Easy-to-replace seal cartridge and plunger assemblies allow quick field repair. Normally closed.

Pipe Size	Orifice Dia.	Cv	PVC Body Seal Material	PVC Body Max. Fluid Temp.	PVC Body Item No.	CPVC Body Seal Material	CPVC Body Max. Fluid Temp.	CPVC Body Item No.
1/2 in	3/64 in	2.3	—	140 °F	**3CDY5**	EPDM	190 °F	**3CEP3**
		2.3	EPDM		**3CDZ2**	FPM	190 °F	**3CEN6**
3/4 in		3.2	—		**3CDY7**	EPDM	190 °F	**3CEP5**
		3.2	EPDM		**3CDZ4**	FPM	190 °F	**3CEN8**
1 in		3.8	—		**3CDY9**	EPDM	190 °F	**3CEP7**
		3.8	EPDM		**3CDZ6**	FPM	190 °F	**3CEP1**

SPENCE

Pneumatic Actuated Globe Control Valves

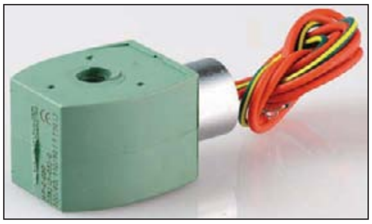
1RXC3

- Max. steam pressure: 250 SWP
- Temp. range: 0° to 400°F
- 2-pc.; stainless steel seats

Globe-style, severe-duty, high-capacity spring return valves work off increasing 20 psig max. control signal. Valves come with a pneumatic actuator and operate fail-close, air-to-open. Bronze construction and FNPT connection. Use for heating or cooling with air, steam, water, and other liquids. Meet ANSI B16.15 Class 250 or ANSI B16.1 Class 125.

Pipe Size	Max. Input Air Pressure	Mfr. Model	Item No.
1/2 in	400 psi	K1TC811-36RA	**1RXC3**
3/4 in	300 psi	K1TD811-36RC	**1RXC4**
1 in	250 psi	K1TE811-36RC	**1RXC5**
1 1/4 in	250 psi	K1TF811-36RE	**1RXC6**
1 1/2 in	275 psi	K1TG811-60RH	**1RXC7**
2 in	175 psi	K1TH811-60RH	**1RXC8**

Description	For Use With	Item No.
NEMA 1, Class F, 120V AC	8210B057, 8210B059, 8342C003, EF8210B27 120/60 110/50, EF8342C001, EF8342C003, JB8214035CSA, JB8214050CCSA, JB8214050CSA, JB8214060CSA to JB8214083CSA, Mfr. 8342C001	**1AKJ5**
NEMA 1, 2, 3, 3S, 4, 4X, Class H, 120V AC	8220G019, 8220G023, 8220G025, 8220G027, 8220G029, 8220G031, 8222G005, 8222G047, 8222G049, 8263G300, 8263G305, Mfr. 8220G021	**1AKJ6**
Coil Kit, 120V/60Hz, 110V/50Hz, Nema 1, 2, 3, 3S, 4 and 4x, Class F, Encapsulated	110/50, 8210G033, 8210G034, 8210G035, 8210G038, 8210G093, 8210G093HW, 8210G094, 8210G094HW, 8210G095, 8210G095HW, 8220G003, 8220G005, 8262G202, 8262G208, 8262G220, 8262G226, 8262G261, 8262G262, 8262G263, 8314G6 120/60 110/50, 8317G035, 8317G053, 8320G172, 8320G184, 8320G186 120/60 110/50, Mfr. 8210G030 120/60	**1AKJ7**
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 120V AC	110/50, 8210G001HW, 8210G002, 8210G002HW, 8210G003, 8210G004, 8210G004LF 120/60, 8210G008, 8210G009, 8210G009HW, 8210G015, 8210G022, 8210G036, 8210G037, 8210G073, 8210G100, 8210G101, 8221G001 to 8262G001, 8262G002 to 8262G022, 8262G031, 8316G54 120/60 110/50, 8316G56 120/60 110/50, 8316G64 120/60 110/50, 8316G66 120/60 110/50, Mfr. 8210G001	**1AKJ8**
NEMA 7, 9, Class F, 120V AC	EF8210G27 120/60, EF8342G003, EF8342G3 120/60, Mfr. EF8342G001	**2HTT5**
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 120V AC	8210G054, 8210G055, 8210G056, 8210G089, Mfr. 8210G026	**2HTT6**
NEMA 1, 2, 3, 3S, 4, 4X, Class F, 24V DC	8210G002, 8210G003, 8210G004, 8210G008, 8210G009, 8210G022, 8210G088, 8210G095, Mfr. 8210G087	**2HTT7**
NEMA 7, 9, Class F, 120V AC	EF8320G200 120/60 110/50, Mfr. EF8320G192 120/60 110/50	**2HTT8**
NEMA 7, 9, Class F, 120V AC	EF8210G033, EF8210G034, EF8210G035, EF8210G038, EF8210G093, EF8210G094, EF8210G095, EF8215G030, EF8262G202, EF8262G208, EF8317G035, EF8317G172, EF8320G184, EF8320G186 120/60 110/50, EF8320G194 120/60 110/50, EF8320G202 120/60 110/50, EF8344G074, EF8344G70 120/60 110/50, EF8344G72 120/60 110/50, EF8345G001, EF8345H003, Mfr. EF8210G030	**2HTT9**
NEMA 7, 9, Class F, 120V AC	EF8210G002, EF8210G003, EF8210G004, EF8210G008, EF8210G009, EF8210G015, EF8210G022, EF8210G036, EF8210G037, EF8210G073, EF8210G100, EF8210G101, EF8262G002, EF8262G022, EF8316G54 120/60 110/50, EF8316G64 120/60 110/50, EF8316G66 120/60 110/50, EF8316G74 120/60 110/50, EF8321G001, EF8321G002, Mfr. EF8210G001	**2HTU1**



ASCO Red-Hat®

Encapsulated Coil Kits

Description	Voltage	Watts	Mfr. Model	Item No.
Din Connector Kit	—	—	276983	**6FAZ6**
Solenoid Valve Coil	120V AC	15.4 W	064982-001-D	**44U337**
	120V AC	10.5 W	064982-004-D	**44U338**
	120V AC	5 W	099216-001-D	**44U339**
	120V AC	15.4 W	099257-001-D	**44U340**
	120V AC	15.4 W	099257-001-G	**44U341**
	24V AC	15.4 W	099257-004-D	**44U342**
	24V AC	30.6 W	236783-001-D	**44U343**
	24V AC	6.1 W	238210-005-D	**44U344**
	240V AC	6.1/8.1	238210-058-D	**44U345**
	480V AC	6.1 W	238210-088-D	**44U346**
	120V AC	6.1/8.1	238212-032—	**44U347**
	24V AC	10.1 W	238610-005-D	**44U348**
	208 to 220/240V AC	10.1 W	238610-058-D	**44U349**
	120V AC	17.1 W	238610-132-D	**44U350**
	120V AC	10.1 W	238612-032—	**44U351**
	120V AC	17.1 W	238612-132—	**44U352**
	120V AC	6.3 W	266763-902-D	**44U353**
	24V AC	16.1 W	272610-005-D	**44U354**
	120V AC	20.1 W	272610-132-D	**44U355**

Replacement parts for Asco solenoid valves. For a complete list of kit contents, see Grainger.com.

Description	Mfr. Model	Item No.
Accessories		
Mounting Bracket	038713-MB	**44U356**
Mounting Bracket, Screw and Instructions	160800-MB	**44U366**
Mounting Bracket	180748-003-MB	**44U373**
	254573-001-MB	**44U383**
	268975-002-MB	**44U388**
Mini DIN Connector	290414-001	**44U391**

Valve Rebuild Kits

ASCO Red-Hat®

Replacement parts for Asco solenoid valves. For a complete list of kit contents, see Grainger.com.

For Use With Mfr. Model Number	For Use With Grainger Item Number	Item No.
8210B020 120/60,110/50 JC, 8210B021 120/60,110/50	3UK18, 3UK19	**1AKJ9**
8210G001HW 120/60,110/50, 8210G002HW 120/60,110/50, 8210G002HW 240/60,220/50	3UK49, 3UK52, 3UK55, 4EMD5	**1AKU1**
8210G002 24/60, 8210G002 24/60, 8210G001 24/60, 8210G001 120/60,110/50, 8210G002 120/60,110/50, 8210G002 240/60,220/50, 8210G002 480/60,440/50, 8210G002 240/60,220/50, 8210G001 240/60,220/50, SC8210G001120/60,110/50A, EF 8210G001 120/60,110/50, EF 8210G002 120/60,110/50, HT 8210G002 120/60,110/50, SC 8210G002 120/60,110/50, JSF 8210G002 120/60,110/50	2HTX4, 3UK48, 3UK50, 3UK51, 3UK53, 3UK54, 3UK56, 3UK57, 4EKR2, 4EKR3, 4EKU2, 4EKU5, 4ELE8, 4ELG8, 6FAY8	**1AKU2**
8210G003 120/60,110/50, EF 8210G003 120/60,110/50, SC 8210G003 120/60,110/50, JKF 8210G003 120/60,110/50	3UK58, 3UK59, 4EKV3, 4ELG7	**1AKU3**
8210G004 24/60, 8210G008 24/60, 8210G004 24/60, 8210G004 120/60,110/50, 8210G004 240/60,220/50, 8210G008 120/60,110/50, 8210G008 120/60,110/50, 8210G004 240/60,220/50, EF 8210G004 120/60,110/50, EF 8210G008 120/60,110/50, HT 8210G004 120/60,110/50, SC 8210G004 120/60,110/50, JKF 8210G004 120/60,110/50	3UK60, 3UK61, 3UK62, 3UK63, 3UK68, 3UK69, 4EKN7, 4EKN8, 4EKP1, 4EKP7, 4EKR1, 4ELE9, 4ELG9	**1AKU4**
8210G009HW 120/60,110/50, 8210G009HW 240/60,220/50, 8210G009HW 240/60,220/50	3UK71, 3UK74, 4EME1	**1AKU5**
8210G009 24/60, 8210G009 24/60, 8210G009 120/60,110/50, 8210G009 240/60,220/50, 8210G009 240/60,220/50, EF 8210G009 120/60,110/50, HT 8210G009 120/60,110/50, SC 8210G009 120/60,110/50, JKF 8210G009 120/60,110/50	3UK70, 3UK72, 3UK73, 3UK75, 4EKV4, 4EKV6, 4EKV7, 4ELF1, 4ELH1	**1AKU6**
8210G022 24/60, 8210G022 120/60,110/50, EF 8210G022 120/60,110/50	3UK79, 3UK80, 4EKN4	**1AKU7**
8210G033 120/60,110/50, 8210G034 120/60,110/50, EF 8210G033 120/60,110/50, EF 8210G034 120/60,110/50, SC 8210G034 120/60,110/50240332-001, 8210G033 120/60,110/50, 8210G034 120/60,110/50, EF 8210G033 120/60,110/50, EF 8210G034 120/60,110/50, SC 8210G034 120/60,110/50240332-001	3UK85, 3UK86, 3UK87, 3UK88, 4ELH7	**1AKU8**
8210G03524/60DA, 8210G035 120/60,110/50, EF 8210G035 120/60,110/50, SC 8210G035 120/60,110/50240333-001, 8210G03524/60DA, 8210G035 120/60,110/50, EF 8210G035 120/60,110/50, SC 8210G035 120/60,110/50240333-001	3UK89, 3UK90, 4ELJ1, 6DYN0	**1AKU9**
8221G005 120/60,110/50	3UL37	**1AKV1**
8221G007 120/60,110/50	3UL38	**1AKV2**
8221G011 120/60,110/50	3UL40	**1AKV3**
8221G013 120/60,110/50	3UL41	**1AKV4**
8215A090 CSA120/60,110/50, 8215A040 CSA 120/60,110/50	4ELZ2, 4KY47	**1AKV5**
8262G202, 8262G208, 8262G208 240/60 220/50, 8262G212, EF8262G202, EF8262G208, EF8262G212	—	**1AKV6**
8345G001 120/60,110/50, EF 8345G001 120/60,110/50	3UM17, 3UM18	**1AKV7**
8222G047 120/60,110/50, 8222G049 120/60,110/50	3UM24, 3UM25	**1AKV8**
8345H003 120/60,110/50, EF 8345H003 120/60,110/50	3UM30, 3UM31	**1AKV9**
8210G054 120/60, 8210G05424/60DA, 8210G055 120/60, EF 8210G054 120/60, EF 8210G055 120/60, HT 8210G054 120/60, SC 8210G054 120/60	4ELF2, 4ELF5, 5JC40, 5JC42, 5JC44, 5JC64, 6DYN2	**1AKY1**
8210G087 120/60,110/50, 8210G088 120/60,110/50, SD8210G087120/60,110/50A, EF 8210G087 120/60,110/50, EF 8210G088 120/60,110/50	3UL05, 3UL06, 3UL07, 3UL08, 6FAZ5	**1AKY2**
8210G093HW 120/60,110/50, 8210G094HW 120/60,110/50	3UL11, 3UL14	**1AKY3**
8210G094 24/60, 8210G094 24/60, SC8210G09424/60A, 8210G093 120/60,110/50, 8210G094 120/60,110/50, 8210G094 240/60,220/50, 8210G094 480/60,440/50, 8210G094 240/60,220/50, EF 8210G093 120/60,110/50, EF 8210G094 120/60,110/50, SC 8210G094 120/60,110/50, HT 8210G094 120/60,110/50, SC 8210G093 120/60,110/50, JKF 8210G094 120/60,110/50	2HTY1, 3UL10, 3UL12, 3UL13, 3UL15, 3UL16, 3UL17, 3UL18, 4EKR4, 4EKR5, 4EKT5, 4ELF3, 4ELF6, 6FAZ2	**1AKY4**
8210G095HW 120/60,110/50	3UL20	**1AKY5**
8210G095 24/60, 8210G095 24/60, 8210G095 120/60,110/50, 8210G095 240/60,220/50, 8210G095 480/60,440/50, 8210G095 240/60,220/50, EF 8210G095 120/60,110/50, JKF 8210G095 120/60,110/50, SC 8210G095 120/60,110/50240358-001	2HTX7, 3UL19, 3UL22, 3UL23, 3UL24, 4EKU9, 4EKV5, 4ELH3	**1AKY6**
8210G10024/60DA, 8210G100 120/60,110/50, 8210G101 120/60,110/50, EF 8210G100 120/60,110/50	3UL25, 3UL26, 3UL27, 3UL28, 4KY37, 6DYN9	**1AKY7**
8220G005 120/60,110/50	3UL30	**1AKY8**
—	3UL31	**1AKY9**
8220G023 24/60, 8220G023 120/60,110/50, 8220G023 240/60,220/50	3UL32, 3UL33, 4EMD8, 4EMD9	**1AKZ1**
8220G025 120/60,110/50, 8220G027 120/60,110/50, EF 8220G025 120/60,110/50242905-001	4EMC9, 5LU44	**1AKZ2**
8210G056 120/60, 8210G05624/60DA, SC8210G056120/60A, EF 8210G056 120/60, EF8210G056220/50DA, 8210B056120/60,110/50DA	5JC46, 5JC48, 6DYK9, 6DYN3, 6FAX6, 6FAZ0	**1ALU4**
8342G001 120/60, 8342G003 120/60, EF 8342G001 120/60, EF 8342G003 120/60	5JC52, 5JC54, 5JC56, 5JC58	**1ALU6**
—	3UM27, 3UM28	**2HTU5**
8317G035, EF8317G035	—	**2HTU6**
8220G003	—	**2HTU7**
8221G009	—	**2HTU8**
8221G001, 8221G003, 8221G3 24/60	—	**2HTU9**
8262G220, 8262G226, 8262G230	—	**2HTV1**
8321G001, 8321G002, EF8321G001, EF8321G002	—	**2HTV2**
8344G074, 8344G72 120/60 110/50, EF8344G074, EF8344G72 120/60 110/50	—	**2HTV3**
8215B050CSA, 8215B060CSA, 8215B070CSA	—	**2HTV4**
8215G010, 8215G020, 8215G030, EF8215G030	—	**2HTV5**
8210B057	—	**2HTV6**
8210G037, EF8210G037	—	**2HTV7**
—	3UK20, 3UK81, 5JC36, 5JC60	**2HTV8**
8210G015, 8210G15 240/60 220/50, EF8210G015	—	**2HTV9**
8210G006, 8210G007, EF8210G006, EF8210G007	—	**2HTW1**
3UL04, 8210G073, 8210G73 240/60 220/50, EF8210G073	—	**2HTW2**
8320G184, EF8320G184	—	**2HTW3**
—	3UL87, 3UL88	**2HTW4**
8320G174, 8320G174 240/60 220/50, 8320G176 120/60 110/50, EF8320G174	—	**2HTW5**
—	3UL89, 3UL90	**2HTW6**
—	3UL67	**2HTW8**
8263G300, 8263G305	—	**2HTW9**
8262G007	—	**2HTX1**
8262G022, 8262G22 24/60, 8262G22 240/60 220/50, EF8262G022	—	**2HTX2**
8262G002, 8262G014, 8262G2 120/60 110/50, 8262G2 480/60 440/50, EF8262G002	—	**2HTX3**
—	3UL42	**2LBC8**

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ASCO Red-Hat®

Valve Rebuild Kits

For Use With Mfr. Model Number	For Use With Grainger Item Number	Item No.
—	3UK21, 3UK82, 5JC38, 5JC62	2LBD2
EF8210B026 AC	—	2LBD3
—	4KY38	2LBD5
—	4KY39	2LBD6
8210D89 120/60 110/50, 8210G089, EF8210G89 120/60	—	2LBD7
110/50, 8210G030 120/60, 8210G038, EF8210G030, EF8210G038	—	2LBD9
—	2HTW8	2LBE1
8262G148 DC, 8262G263 DC	—	2LBE2
8210D014 24/DC, 8210G014 120/60, 8210G018 120/60 240349-001, EF8210G014120/60DA	4EKY9, 4EMF1, 4EMF6, 6FAX3	2LBE3
—	2HTX8, 2LBH4	2LBE4
—	2LBH5	2LBE5
—	5LE92	2LBE6
—	5LE93	2LBE7
8210G093, 8210G094	—	2LBE8
8210G001, 8210G002, EF8210G002	—	2LBE9
8210G095	—	2LBF1
8210G009	—	2LBF2
8210G003	—	2LBF3
8210G004, 8210G008	—	2LBF4
—	5LU17	2LBF5
—	5LE94	2LBF6
8210G088, EF8210G087	—	2LBF7
8262G262, 8262G263	—	2LBG2
8320G182 12/DC, 8320G182 24/DC, 8320G184 24/DC, EF 8320G184 24/DC	24W628, 24W643, 4ELC8, 4ELD1	4ELN5
8222G070 120/60,110/50, 8222G074 120/60,110/50, 8222G066 120/60,110/50, 8222G076 120/60,110/50	5LU34, 5LU36, 5LU38, 5LU39	4ELN6
8040C004CSA AC	—	4ELN8
8040G023 24/60, 8040G022 120/60,110/50, 8040G023 120/60,110/50	4ELZ5, 5LU23, 5LU24	4ELN9
8210G002V 120/60,110/50	4EKR9	4ELP1
8210G009V 120/60,110/50	4EKV1	4ELP3
8210G032 120/60 240353-001, SC8210D03224/DCD	4EKY8, 6FAY7	4ELP5
8210G095VH 120/60,110/50	4EKV2	4ELR1
8210G103 120/60 240361-001, 8210G104120/60DA	4EKY7, 6DYP0	4ELR2
8210G106B 120/60,110/50	4ELZ4	4ELR3
8215B050 CSA 12/DC, 8215B050 CSA 24/DC, 8215B060 CSA 12/DC, 8215B070 CSA 12/DC, 8215B070 CSA 24/DC	4EKN5, 4EKN9, 4EKP2, 4EKP3, 4EKR6	4ELR4
8215B080 CSA 24/DC	4EKN2	4ELR5
8215C063 120/60,110/50, 8215C053 120/60,110/50, 8215C053 CSA 120/60,110/50, 8215C063 CSA 120/60,110/50, 8215C073 CSA 120/60,110/50	4ELZ8, 4ELZ9, 4KY48, 4KY49, 4KY50	4ELR6
8221G003HW 120/60,110/50	4EMD4	4ELT1
8222G002 120/60,110/50, 8222G003 120/60,110/50	4EMD3, 5LU43	4ELT2
8262G011V120/60,110/50DA	6DYP7	4ELT4
8262G200 120/60,110/50, SC 8262G200 120/60,110/50240664-001	4EKW6, 4ELF9	4ELU2
8262G202T 120/60,110/50	4EKX3	4ELU3
EF 8215B060 120/60,110/50, EF8215B070120/60,110/50DA	4EKN6, 6FAY2	4ELU9
8215G033 120/60,110/50, 8215G023120/60,110/50DA, EF 8215G033 120/60,110/50	4EKZ4, 4KY52, 6DYP5	4ELV2
EF 8262G226V 120/60,110/50	4EKW9	4ELV3
8262G232Q (AC)	—	4ELV6
8320G200 120/60,110/50, 8320G200 120/60,110/50, EF 8320G200 120/60,110/50, EF 8320G200 120/60,110/50	3UM19, 3UM20, 4ELD9, 4ELF8	4ELV8
8320G186 120/60,110/50, EF 8320G186 120/60,110/50	3UL97, 3UL98	4ELW2
8320B001 MS AC,EF 8320G001 MS AC,GP 8320G001 MS AC,GP HB 8320G001 MS AC,HB 8320G001 MS AC,J KP 8320B001 MS AC,HB 8320B001 MS AC,J P SP 8320G001 MS AC,J SP 8320B001 MS AC,EF HB 8320G001 MS AC,OP KB 8320G001 MS AC,MP SP 8320B001 MS AC,OP SP 8320G001 MS AC,8320G001 MS AC,J KB 8320G001 MS AC,P 8320B001 MS AC,OF SP 8320G001 MS AC,P HB 8320B001 MS AC,J P SP 8320G001 MS AC	—	4ELW5
8342G001MS 120/60, 8342G003 MS 120/60, EF 8342G001MS 120/60, EF 8342G003MS 120/60	24W648, 24W657, 4ELD5, 4ELD6	4ELW6
P210C093, P210C094	4ELE2, 4ELE3	4ELW7
P210D009	4ELE4	4ELW9
—	4EKT8	4ELX4
8263G210 120/60, 8263G210 120/60,110/50	2HTT3, 4ELK9	6DXZ9
8262G090 120/60,110/50	4ELK7	6DYA0
8320G001 120/60,110/50, 8320G001 120/60,110/50, 8320G001 24/60 242064-100	24W632, 3UL85, 3UL86, 4ELD2	6DYA2
8320G192 120/60,110/50, 8320G192 120/60,110/50, EF 8320G192 120/60,110/50	24W639, 3UL99, 3UM01	6DYA3
8320G194 120/60,110/50, 8320G194 120/60,110/50, EF 8320G194 120/60,110/50	24W634, 3UM02, 3UM03	6DYA4
8320G130 12/DC	4ELD3	6DYA5
8320A190 12/DC	4ELC9	6DYA6
EF 8210B054 AC, EF 8210B055 AC	—	6DYA7
EF 8210B056 AC, EF FB X8210B056 04672 AC,EF HT 8210B056 AC	—	6DYA8
EF 8210D089 AC, EF FB X8210D089 V 04672 AC, EF HT 8210D089 AC	—	6DYA9
8210B059 120/60,110/50	4KY36	6DYC0
8210G022 24/DC, SC8210G02224/DCD	2HTY3, 5LU20, 6FAY9	6DYC1
8210B056 24/DC	4EMF5	6DYC2
8211A015 DC, HC 8211A015 DC	—	6DYC3
8215G020 12/DC, 8215G030 12/DC, EF8215G03012/DCDD	4EKT6, 4EKV8, 6FAY4	6DYC4
8344G070 120/60,110/50, 8344G070 120/60,110/50, EF 8344G070 120/60,110/50	24W664, 24W666, 3UM11, 3UM12	6DYC5
8030G010 120/60	2HTP7	6DYC6
8030G013 120/60	2HTP8	6DYC7
8030G016 120/60	2HTP9	6DYC8
8030G017 120/60	2HTR1	6DYC9
8030G003 120/60, 8030G043 120/60	2HTR2, 2HTR3	6DYD0
8030G071 120/60	2HTR4	6DYD1
8030G083 120/60	2HTR5	6DYD2
8267G019 120/60	4EMD7	6DYD3
8267G023 120/60	4EME5	6DYD4
8264G009 120/60, 8264G010 120/60	2HTN5, 2HTN7	6DYD5
8321G003 120/60,110/50	3UM08	6DYD6
8222G093 120/60,110/50, 8222G094 120/60,110/50, 8222G095 120/60,110/50	4EME8, 5LU40, 5LU42	6DYD7
8222G005 120/60,110/50	5LU41	6DYD8
8222G088 120/60,110/50	4EMD6	6DYD9
8263G240LT 120/60	2HTN6	6DYE0
8263G205LT 120/60, 8263G206LT 120/60	2HTL7, 2HTL9	6DYE1
8263G209LT 120/60, 8263G209LT24/60DA, 8263G210LT 120/60	2HTN3, 2HTN4, 6FAX1	6DYE2
8222G002LT 120/60	2HTN1	6DYE3
8210G100 24/DC, EF8210G10024/DCDD	4EMF4, 6FAY0	6DYE4
8220G029 120/60,110/50	5LU45	6DYE5
8220G007 120/60,110/50, 8220G009 120/60,110/50	5LU29, 5LU31	6DYE6
8220G011 120/60,110/50	5LU32	6DYE7
8220G013 120/60,110/50	5LU33	6DYE8
EF 8342C001 AC, EF 8342C001 AC, EF 8342C003 CSA AC	—	6DYE9
8030G069 120/60,110/50	4EMC7	6DYF1
8030G079 120/60,110/50	4EMC8	6DYF2
8220G031 120/60,110/50	5LU46	6DYF3
X8262C002 120/60 13200	3UK26	6DYF4
8220G095 120/60	4EME4	6DYF5
8317G053 120/60,110/50 MATO 246095-001-F	3UL84	6DYF6
8314G006 AC, 8314G041 AC, EF 8314G006 AC, EF 8314G006 V AC	—	6DYF7
8316G064 120/60,110/50, 8316G054 120/60,110/50, 8316G074 120/60,110/50, EF 8316G054 120/60,110/50, EF 8316G064 120/60,110/50, EF 8316G074 120/60,110/50	24W630, 24W650, 24W665, 34W676, 3UL72, 3UL73, 3UL75, 3UL76, 3UL79, 3UL80	6DYF8
8316G066 120/60,110/50, 8316G056 120/60,110/50 , 8316G076 120/60,110/50 , EF 8316G066 120/60,110/50	3UL74, 3UL77, 3UL78, 3UL81	6DYF9
JB 8214 083 CSA120/60,110/50	3UK46	6DYG0
EF 8314G300 24/DC, EF 8314G301 12/DC, EF 8314G301 24/DC, EV 8314G301 24/DC	24W624, 24W645, 2LBJ1, 2LBJ2	6DYG1
EF 8317G307 24/DC	2LBJ4	6DYG2
EF 8317G308 24/DC	2LBJ5	6DYG3
EF 8316G301 24/DC	2LBJ3	6DYG4
8040H008 120/60,110/50, 8040H006 120/60,110/50, 8040H007 120/60,110/50	3UM33, 5LU21, 5LU22	6DYG5
8210P093 100-240, 8210P093 24-99, 8210P094 100-240, 8210P094 24-99	1ALA6, 1ALA8, 2HUA8, 2HUA9	6DYG7
8210P095 100-240, 8210P095 24-99	1ALB3, 2HUB1	6DYG8
8210P087 100-240, 8210P088 100-240	1ALB1, 1ALB5	6DYG9
8210P004 100-240, 8210P004 24-99, 8210P008 100-240, 8210P008 24-99	1ALB7, 2HUB2, 4ELL4, 4ELL5	6DYH0
8210P022 100-240, 8210P022 24-99	4ELL6, 4ELL7	6DYH1
8210P100 100-240	1ALB9	6DYH2
8320P184 100-240, 8320P186 100-240	2HUA1, 2HUA7	6DYH3
8210P033 100-240, 8210P033 24-99, 8210P034 100-240, 8210P034 24-99	4ELL8, 4ELL9, 4ELN1, 4ELN2	6DYH4
8210P035 100-240, 8210P035 24-99	4ELN3, 4ELN4	6DYH5
8345P001 100-240	2HUA3	6DYH6
8220G403 120/60,110/50 DA, 8220G406 120/60,110/50 DA, SU8220G406 120/60,110/50 A, EF8220G406 120/60,110/50 DA	4NWZ2, 4NWZ5, 6WTV7, 6WTV8	6DYH7
8220G409 24/60 DA, 8220G409 240/60,220/50 DA, 8220G409 120/60,110/50 DA	4NWZ8, 6WTV9, 6WTW0	6DYH8
8220G410 120/60,110/50 DA	4NXA1	6DYH9
8220G411 120/60,110/50 DA	4NXA2	6DYJ0
8220G407 120/60,110/50 DA	4NWZ7	6DYJ1
8220G401 120/60,110/50 DA, 8220G404 120/60,110/50 DA	4NWZ1, 4NWZ4	6DYJ2
8353C003 AC, 8353C033, 8353C034 AC, 8353C036 AC, X8353C033 13470 AC, X8353C033 15435 AC, X8353C033 21322 AC	3UK31, 5LU47	6DYJ3
8262G022LT 120/60	2HTN2	6DYJ4
8262G021V 120/60,110/50	2LBG4	6DYJ5
8210G094N 120/60,110/50	4EKT1	6DYJ6
8210G094V 120/60,110/50	4EKT2	6DYJ7
JB8266D023L 120/60,110/50	2LBG6	6DYJ8
JB8266D077L 120/60,110/50	2LBG7	6DYJ9
8262G208V 120/60,110/50	2LBG5	6DYK0
8221G005HW 120/60,110/50	5LU28	6DYK1
8221G007HW 120/60,110/50	5LU30	6DYK2
C131204	—	6DYK3
C131205	—	6DYK4
C131206	—	6DYK5
C131207	—	6DYK6
C131208	—	6DYK7
C131209	—	6DYK8
X8003001 05337AC	—	44U357
8353C004V AC	—	44U358
—	—	44U359
HV206720002AC	—	44U360
8210	—	44U361
HV212428001AC	—	44U362
HV216164001AC	—	44U363
8222 AC	—	44U364
8210 AC	—	44U365
8267	—	44U367
8210B035 AC/DC	—	44U368
8210	—	44U369
8030	—	44U370
8210	—	44U371
V043 002	—	44U372
HV162818001DC	—	44U374
8353C003V	—	44U375
V012 011	—	44U376
8262	—	44U377
8262	—	44U378
MXX	—	44U379
8353E038	—	44U380
SC8210G094MB 120/60,110/50	—	44U381
XV012 013	—	44U382
—	—	44U384
MXX	—	44U385
8353 057 & 8353F038	—	44U386
8353F038V & 8353F057V	—	44U387
8353A064AC	—	44U389
8353A057V AC	—	44U390
X8263G333T 05935AC	—	44U393
8262A152V AC	—	44U394
EF8320G182AC	—	44U395
8210D002EAC	—	44U396
8210D008EAC	—	44U397
8210G088EAC	—	44U398
HV283290001AC	—	44U399
8215B080AC	—	44U401
8344A074MOAC	—	44U402
8340G001AC	—	44U403
All Prefix 8353G039 AC	—	44U404
8321G001 DC, 8321G002 DC	—	44U405
8210D009QAC	—	44U406
8222B095MOAC	—	44U407
U8210C076AC	—	44U408
8262C226EAC	—	44U409
8262G220TAC	—	44U410
8262G226V, 8262G230V, All prefix 8262G220V	—	44U411
8262D232EAC	—	44U412
8262D232JAC	—	44U413
8262 153V AC	—	44U414
FBX8262A227V 06866 CSA AC, FBX8262B227V 06866 CSA AC	—	44U415
8316G046AC	—	44U417
HV266139001DC	—	44U418
OP8210G034EAC	—	44U419
8353G061AC	—	44U420
X8353G054 18760AC	—	44U421
8222G405AC	—	44U422
8210G009AC	—	44U423
X8262H226AC	—	44U424

Cast- and Ductile-Iron Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 200 psi
- Buna liner temp. range: 10° to 180°F
- EPDM liner temp. range: -30° to 250°F
- Viton liner temp. range: -20° to 300°F

For commercial mechanical and industrial processes, including hot and cold domestic water, HVAC, condenser and chilled water, and compressed air and vacuum services. Meet MSS-SP67, MSS-SP25, and API-609, except Low-Lead models only meet MSS SP-67, API-609.

Cast-Iron—Heavy-duty, low-torque valves are dead-end service rated at 150 psi; 200 psi for Buna and EPDM lug style.

Ductile-Iron—High tensile and yield strength with positive shutoff. Bidirectional service to 200 psi max.

5MPC5

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Cast-Iron Body, Buna Liner, Nickel Plated Ductile-Iron Disc Item No.	Cast-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.	Cast-Iron Body, Viton Liner, Nickel Plated Ductile-Iron Disc Item No.	Ductile-Iron Body, Buna Liner, Nickel Plated Ductile-Iron Disc Item No.	Ductile-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.	Ductile-Iron Body, Viton Liner, 316 Stainless Steel Disc Item No.	Low-Lead Ductile-Iron Body, EPDM Liner, Aluminum/ Bronze Disc Item No.
Lug Style, Gear Operated Handle Type										
6 in	9 ½ in	¾-10	8	1JBJ6	1JBE6	—	—	5MPC3	5MPE3	39A304
8 in	11 ¾ in	¾-10	8	1JBJ8	1JBE8	—	5MPD5	5MPC4	5MPE4	39A305
10 in	14 ¼ in	⅞-9	12	—	—	—	—	5MPC5	—	39A306
12 in	17 in	⅞-9	12	—	—	—	—	—	—	39A307
Lug Style, Lever Handle Type										
2 in	4 ¾ in	⅝-11	4	1JBH1	1JBD1	1JBN1	5MPC7	5MPA7	5MPD6	39A296
2 ½ in	5 ½ in	⅝-11	4	1JBH3	1JBD3	—	5MPC8	5MPA8	5MPD7	39A297
3 in	6 in	⅝-11	4	1JBH5	1JBD5	1JBN3	5MPC9	5MPA9	5MPD8	39A298
4 in	7 ½ in	⅝-11	8	1JBH7	1JBD7	1JBN5	5MPD0	5MPC0	5MPD9	39A299
5 in	8 ½ in	¾-10	8	1JBH9	1JBD9	—	5MPD1	5MPC1	5MPE0	39A301
6 in	9 ½ in	¾-10	8	1JBJ2	1JBE2	1JBN7	5MPD2	5MPC2	5MPE1	39A302
8 in	11 ¾ in	¾-10	8	1JBJ4	1JBE4	1JBN9	5MPD3	5MPA6	5MPE2	39A303
12 in	17 in	⅞-9	12	—	—	—	—	5MPC6	—	—
Wafer Style, 10 Position Spring Locked Handle Type										
4 in	7 ½ in	⅝-11	2	—	—	—	5MPF9	—	—	—
5 in	8 ½ in	¾-10	2	—	—	—	5MPG0	—	—	—
Wafer Style, Gear Operated Handle Type										
4 in	7 ½ in	⅝-11	2	—	—	—	—	—	5MPG8	—
5 in	8 ½ in	¾-10	2	—	—	—	—	—	5MPG9	—
6 in	9 ½ in	¾-10	2	1JBL6	1JBG6	—	—	5MPF2	5MPH2	—
8 in	11 ¾ in	¾-10	2	—	1JBG8	—	—	5MPF3	5MPH3	—
10 in	14 ¼ in	⅞-9	4	—	—	—	—	5MPF4	—	—
12 in	17 in	⅞-9	4	—	—	—	—	5MPF5	—	—
Wafer Style, Lever Handle Type										
2 in	4 ¾ in	⅝-11	2	1JBK1	1JBF1	—	—	5MPE6	5MPG5	—
2 ½ in	5 ½ in	⅝-11	2	—	1JBF3	—	—	5MPE7	5MPG6	—
3 in	6 in	⅝-11	2	1JBK5	1JBF5	1JBP8	—	5MPE8	5MPG7	—
4 in	7 ½ in	⅝-11	2	1JBK7	1JBF7	—	—	5MPE9	—	—
5 in	8 ½ in	¾-10	2	—	1JBF9	—	—	5MPF0	—	—
6 in	9 ½ in	¾-10	2	1JBL2	1JBG2	1JBR3	5MPG1	5MPF1	5MPH0	—
8 in	11 ¾ in	¾-10	2	1JBL4	1JBG4	—	5MPG4	—	5MPH1	—
8 in	11 ¾ in	¾-10	2	1JBL8	—	—	—	—	—	—

Electric Actuated
115 VAC
1WDX1

Pneumatic Actuated
1WDX8

Cast- and Ductile-Iron Actuated Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 200 psi CWP
- Temp. range: -20° to 250°F
- EPDM seats and liner, aluminum bronze disc
- Lug style

Use for industrial and domestic applications, including hot and cold domestic water, HVAC, condenser and chilled water, compressed air, and vacuum service. Compatible with ANSI Class 125 and 150 flanges. Electrically actuated 115VAC valves have a reversing motor that requires 50/60 Hz and include a switch that indicates whether the valve is open or closed. Close mount. Can be bolted directly to a single flange piping system. Pneumatic-actuated valves require a 80 psi air supply. Double-acting valves require air to open and close; spring-return valves only require air to open.

Pipe Size	Bolt Circle Dia.	Lug Dia. (in.)	No. of Bolt Holes	115 V AC Item No.	Pneumatically Actuated, Double Acting Item No.	Pneumatically Actuated, Spring Return Item No.
Cast Iron						
2"	4¾"	⅝-11	4	1WDX1	1WDX8	1WDY6
2½"	5½"	⅝-11	4	1WDX2	1WDX9	1WDY7
3"	6"	⅝-11	4	1WDX3	1WDY1	1WDY8
4"	7½"	⅝-11	8	1WDX4	1WDY2	1WDY9
5"	8½"	¾-10	8	1WDX5	1WDY3	1WDZ1
6"	9½"	¾-10	8	1WDX6	1WDY4	1WDZ2
8"	11¾"	¾-10	8	1WDX7	1WDY5	1WDZ3
Ductile Iron						
2"	4¾"	⅝-11	4	5MPP2	5MPN0	5MPN6
2½"	5½"	⅝-11	4	5MPP3	5MPN1	5MPN7
3"	6"	⅝-11	4	5MPP4	5MPN2	5MPN8
4"	7½"	⅝-11	8	5MPP5	5MPN3	5MPN9
5"	8½"	¾-10	8	5MPP6	5MPN4	5MPP0
6"	9½"	¾-10	8	5MPP7	5MPN5	5MPP1

ASAHI/AMERICA®

PVC and CPVC Butterfly Valves

Feature a spherical disc design for greater durability and improved Cv, while the full seat construction helps isolate the body and stem from the media and acts as mating flange gaskets. All gear handles come with a Plasgear operator designed with composite plastic and a black urethane coating for rust and corrosion resistance even when exposed to harsh chemicals.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Handle Type: Gear Item No.	Handle Type: Lever Item No.
Lug						
3 in	6 in	⅝-11	4	PP	442R86	442R82
4 in	7 ½ in	⅝-11	8	PP	442R87	442R83
6 in	9 ½ in	¾-10	8	PP	442R88	442R84
8 in	11 ¼ in	¾-10	8	PP	442R89	442R85
Wafer						
2 in	4 ¼ in	¼ in	4	CPVC	442R95	442R90
		¼ in	4	PVC	442R68	442R62
2 ½ in	5 ½ in	¼ in	4	PVC	442R69	442R63
3 in	6 in	¼ in	4	CPVC	442R96	442R91
		⅝-11	4	PP	442R74	442R78
		¼ in	4	PVC	442R70	442R64
4 in	7 ½ in	¼ in	8	CPVC	442R97	442R92
		⅝-11	8	PP	442R75	442R79
		¼ in	8	PVC	442R71	442R65
6 in	9 ½ in	⅞ in	8	CPVC	442R98	442R93
		¾-10	8	PP	442R76	442R80
		⅞ in	8	PVC	442R72	442R66
8 in	11 ¼ in	⅞ in	8	CPVC	442R99	442R94
		¾-10	8	PP	442R77	442R81
		⅞ in	8	PVC	442R73	442R67

** Polypropylene = PP.*

Gear Handle
442R74

Lever Handle
442R78

4GAM7

Carbon Steel Butterfly Valves

MILWAUKEE VALVE

- Max. pressure: 285 psi
- Max. steam rating: 150 psi
- Temp. range: -20° to 400°F
- RPTFE liner material
- 316 stainless steel disc material

Use in throttling and positive shutoff applications, with hot water, cold water, and steam. A redundant seal prevents seat from being drawn into the flow stream, especially under high-velocity conditions. Bidirectional, with double dead-end service. Mount in any position. Stainless steel spring. Meet MSS SP-68, ANSI B16.34, and API 609.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Lug Item No.	Wafer Item No.
Gear Operated Handle					
2 ½ in	5 ½ in	⅝-11	4	**4GAL7**	—
5 in	8 ½ in	¾-10	8	**4GAM1**	—
Lever Handle					
3 in	6 in	⅝-11	4	**4GAL8**	**4GAM7**
4 in	7 ½ in	⅝-11	4	—	**4GAM8**
4 in	7 ½ in	⅝-11	8	**4GAL9**	—
6 in	9 ½ in	¾-10	8	**4GAM2**	**4GAM9**

PVC Butterfly Valves—Type-57P

ASAHI/AMERICA

- Max. water pressure: 150 psi
- Temp. range: 30° to 175°F
- EPDM liner material
- Polypropylene disc material
- Wafer style

49FD21

Feature a PVC body and polypropylene disc for high chemical resistance and non-wetted 316 stainless steel shaft for long life. The spherical disc design helps provide increased Cv, maximum sealing, and a high cycle life. Molded body stops and a seat stress relief area help prevent seat overtightening. Self gasketing, no additional gasket required. Meet ASTM D1784 Cell Class 12454A and NSF 61 Certified. Find Asahi Flange Gaskets at Grainger.com.

Pipe Size	Bolt Circle Dia.	No. of Bolt Holes	Handle Type: Gear Item No.	Handle Type: Lever Item No.
2 in	4 ¾ in	4	—	**49FD21**
2 ½ in	5 ½ in	4	—	**49FD22**
3 in	6 in	4	—	**49FD23**
4 in	7 ½ in	8	—	**49FD24**
6 in	9 ½ in	8	—	**49FD25**
8 in	11 ¾ in	8	—	**49FD26**
10 in	14 ¼ in	12	**49FD19**	—
12 in	17 in	12	**49FD20**	—

PVC Butterfly Valves—BYCS Series

HAYWARD

- Max. pressure: 150 psi
- Temp. range: 40° to 140°F
- EPDM liner material
- PVC disc material
- Wafer style

26X014

PVC construction, 1-pc. body. Fully supported flanged bolt holes help prevent stressing on mating flanges. Blowoutproof, 410 stainless steel stem and full body liner with integrally molded face seal eliminates need for additional gaskets. Lever handle with lockout.

Pipe Size	Bolt Circle Dia.	No. of Bolt Holes	Handle Type: Gear Item No.	Handle Type: Lever Item No.
2 in	4 ¾ in	4	**26X021**	**26X014**
2 ½ in	5 ½ in	4	**26X022**	**26X015**
3 in	—	4	—	**26X016**
3 in	6 in	4	**26X023**	—
4 in	7 ½ in	8	**26X024**	**26X017**
5 in	8 ½ in	8	—	**26X018**
6 in	9 ½ in	8	**26X026**	**26X019**
8 in	11 ¾ in	8	**26X027**	**26X020**

Lug, Gear Handle 36FP61

Wafer, Lever Handle 36FP62

PVC and CPVC Butterfly Valves—BYV Series

HAYWARD

- Max. water pressure: 150 psi
- Temp. range: 32° to 140°F (PVC Body); 32° to 190°F (CPVC Body)

Feature a 1-pc. body and 1-pc. 316 SS stem with threaded retaining gland. Optional 316 SS lugs can be molded into the body for added strength. Lever models have 19 lockable stop positions, and 360° Interlock with Cv and percentage open indicators. For a complete list of standards and specifications, go to Grainger.com and search for individual products. For glass-filled valves go to Grainger.com and search for glass filled polypropylene butterfly valves.

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Liner Material	Handle Type: Gear Item No.	Handle Type: Lever Item No.
Lug							
PVC Body							
2"	4¾"	¾"	4	GP	EPDM	**36FP61**	**36FP63**
		¾"	4	GP	FPM	**36FP69**	**36FP71**
		¾"	4	GP	Nitrile	**36FP65**	**36FP67**
		¾"	4	PVC	EPDM	**36FN76**	**36FN78**
		¾"	4	PVC	FPM	**36FN84**	**36FN86**
		¾"	4	PVC	Nitrile	**36FN80**	**36FN82**
2½"	5½"	¾"	4	GP	EPDM	**36FP73**	**36FP75**
		¾"	4	GP	FPM	**36FP81**	**36FP83**
		¾"	4	GP	Nitrile	**36FP77**	**36FP79**
		¾"	4	PVC	EPDM	**36FN88**	**36FN90**
		¾"	4	PVC	FPM	**36FN96**	**36FN98**
		¾"	4	PVC	Nitrile	**36FN92**	**36FN94**
3"	6"	¾"	4	GP	EPDM	**36FP85**	**36FP87**
		¾"	4	GP	FPM	**36FP93**	**36FP95**
		¾"	4	GP	Nitrile	**36FP89**	**36FP91**
		¾"	4	PVC	EPDM	**36FP01**	**36FP03**
		¾"	4	PVC	FPM	**36FP09**	**36FP11**
		¾"	4	PVC	Nitrile	**36FP05**	**36FP07**
4"	7½"	22/31"	8	GP	EPDM	**36FP97**	**36FP99**
		22/31"	8	GP	FPM	**36FR06**	**36FR08**
		22/31"	8	GP	Nitrile	**36FR02**	**36FR04**
		22/31"	8	PVC	EPDM	**36FP13**	**36FP15**
		22/31"	8	PVC	FPM	**36FP21**	**36FP23**
		22/31"	8	PVC	Nitrile	**36FP17**	**36FP19**
CPVC Body							
2"	4¾"	¾"	4	CPVC	EPDM	**36FR46**	**36FR48**
		¾"	4	CPVC	FPM	**36FR54**	**36FR56**
		¾"	4	CPVC	Nitrile	**36FR50**	**36FR52**
2½"	5½"	¾"	4	CPVC	EPDM	**36FR58**	**36FR60**
		¾"	4	CPVC	FPM	**36FR66**	**36FR68**
		¾"	4	CPVC	Nitrile	**36FR62**	**36FR64**
3"	6"	¾"	4	CPVC	EPDM	**36FR70**	**36FR72**
		¾"	4	CPVC	FPM	**36FR78**	**36FR80**
		¾"	4	CPVC	Nitrile	**36FR74**	**36FR76**
4"	7½"	22/31"	8	CPVC	EPDM	**36FR82**	**36FR84**
		22/31"	8	CPVC	FPM	**36FR90**	**36FR92**
		22/31"	8	CPVC	Nitrile	**36FR86**	**36FR88**

Pipe Size	Bolt Circle Dia.	Lug Dia.	No. of Bolt Holes	Disc Material*	Liner Material	Handle Type: Gear Item No.	Handle Type: Lever Item No.
Wafer							
PVC Body							
2"	4¾"	¾"	4	GP	EPDM	**36FP60**	**36FP62**
		¾"	4	GP	FPM	**36FP68**	**36FP70**
		¾"	4	GP	Nitrile	**36FP64**	**36FP66**
		¾"	4	PVC	EPDM	**36FN75**	**36FN77**
		¾"	4	PVC	FPM	**36FN83**	**36FN85**
		¾"	4	PVC	Nitrile	**36FN79**	**36FN81**
2½"	5½"	¾"	4	GP	EPDM	**36FP72**	**36FP74**
		¾"	4	GP	FPM	**36FP80**	**36FP82**
		¾"	4	GP	Nitrile	**36FP76**	**36FP78**
		¾"	4	PVC	EPDM	**36FN87**	**36FN89**
		¾"	4	PVC	FPM	**36FN95**	**36FN97**
		¾"	4	PVC	Nitrile	**36FN91**	**36FN93**
3"	6"	¾"	4	GP	EPDM	**36FP84**	**36FP86**
		¾"	4	GP	FPM	**36FP92**	**36FP94**
		¾"	4	GP	Nitrile	**36FP88**	**36FP90**
		¾"	4	PVC	EPDM	**36FN99**	**36FP02**
		¾"	4	PVC	FPM	**36FP08**	**36FP10**
		¾"	4	PVC	Nitrile	**36FP04**	**36FP06**
4"	7½"	22/31"	8	GP	EPDM	**36FP96**	**36FP98**
		22/31"	8	GP	FPM	**36FR05**	**36FR07**
		22/31"	8	GP	Nitrile	**36FR01**	**36FR03**
		22/31"	8	PVC	EPDM	**36FP12**	**36FP14**
		22/31"	8	PVC	FPM	**36FP20**	**36FP22**
		22/31"	8	PVC	Nitrile	**36FP16**	**36FP18**
CPVC Body							
2"	4¾"	¾"	4	CPVC	EPDM	**36FR45**	**36FR47**
		¾"	4	CPVC	FPM	**36FR53**	**36FR55**
		¾"	4	CPVC	Nitrile	**36FR49**	**36FR51**
2½"	5½"	¾"	4	CPVC	EPDM	**36FR57**	**36FR59**
		¾"	4	CPVC	FPM	**36FR65**	**36FR67**
		¾"	4	CPVC	Nitrile	**36FR61**	**36FR63**
3"	6"	¾"	4	CPVC	EPDM	**36FR69**	**36FR71**
		¾"	4	CPVC	FPM	**36FR77**	**36FR79**
		¾"	4	CPVC	Nitrile	**36FR73**	**36FR75**
4"	7½"	22/31"	8	CPVC	EPDM	**36FR81**	**36FR83**
		22/31"	8	CPVC	FPM	**36FR89**	**36FR91**
		22/31"	8	CPVC	Nitrile	**36FR85**	**36FR87**

**GP = glass-filled polypropylene.*

Bronze Gate Valves

MILWAUKEE VALVE

Valves act as a positive shutoff and can be used fully open or fully closed. Bronze body, stem, and wedge. Malleable-iron wheel handle. Full port. For use in steam, water, and compressed air applications. Meet MSS SP-80.

CLASS 125
- Max. water pressure: 200 psi CWP, 125 psi SWP
- Max. temp.: 406°F

CLASS 150
- Max. water pressure: 300 psi CWP, 150 psi SWP
- Max. temp.: 406°F

CLASS 200
- Max. water pressure: 400 psi CWP, 200 psi SWP
- Max. temp.: 550°F

CLASS 300
- Max. water pressure: 1000 psi CWP, 300 psi SWP
- Max. temp.: 550°F

Nonrising Stem, FNPT
5JLU3

Rising Stem, Solder
5MPJ0

	Class 125			Class 150			Class 200			Class 300		
Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
Non-Rising Valve Stem Type, FNPT												
¼ in	1 ¾ in	3 ⅝ in	5JLU3	1 ¾ in	3 ⅝ in	1WEB9	1 13/16 in	4 ⅛ in	4GCD9	1 13/16 in	4 ⅛ in	1WED1
⅜ in	1 13/16 in	3 ⅝ in	5JLU4	1 13/16 in	3 ⅝ in	1WEC1	1 ⅞ in	4 ⅛ in	4GCE1	1 ⅞ in	4 ⅛ in	1WED2
½ in	2 in	3 ⅝ in	5JLU5	2 in	3 ⅝ in	1WEC2	2 ¼ in	4 5/16 in	4GCE2	2 ¼ in	4 5/16 in	1WED3
¾ in	2 ⅛ in	4 ⅜ in	5JLU6	2 ⅛ in	4 ⅜ in	1WEC3	2 ½ in	4 9/16 in	4GCE3	2 ½ in	4 9/16 in	1WED4
1 in	2 9/16 in	5 in	5JLU7	2 9/16 in	5 in	1WEC4	3 in	5 3/16 in	4GCE4	3 in	5 3/16 in	1WED5
1 ¼ in	2 25/32 in	5 5/16 in	5JLU8	2 25/32 in	5 5/16 in	1WEC5	3 ⅜ in	5 15/16 in	4GCE5	3 ⅜ in	5 15/16 in	1WED6
1 ½ in	2 13/16 in	6 11/32 in	5JLU9	2 13/16 in	6 11/32 in	1WEC6	3 ½ in	6 ⅜ in	4GCE6	3 ½ in	6 ⅜ in	1WED7
2 in	3 5/16 in	7 7/16 in	5JLV0	3 5/16 in	7 7/16 in	1WEC7	3 ¾ in	7 11/16 in	4GCE7	3 ¾ in	7 11/16 in	1WED8
2 ½ in	4 3/16 in	9 ⅛ in	5JLV1	4 3/16 in	9 ⅛ in	1WEC8	—	—	—	—	—	—
3 in	4 ⅝ in	10 15/32 in	5JLV2	4 ⅝ in	10 15/32 in	1WEC9	—	—	—	—	—	—
Rising Valve Stem Type, FNPT												
¼ in	1 ¾ in	3 ⅝ in	5JLV3	4 ⅜ in	1 ¾ in	5JLY7	1 ¾ in	5 ⅛ in	4GCC8	1 13/16 in	5 ⅛ in	5JLZ7
⅜ in	1 13/16 in	3 ⅝ in	5JLV4	1 13/16 in	1 13/16 in	5JLY8	1 ⅞ in	5 ⅛ in	4GCD1	1 ⅞ in	5 ⅛ in	5JLZ8
½ in	2 in	3 ⅝ in	5JLV5	4 ⅜ in	2 in	5JLY9	2 ¼ in	5 ½ in	4GCC9	2 ¼ in	5 ½ in	5JLZ9
¾ in	2 ⅛ in	4 ⅜ in	5JLV6	5 27/32 in	2 ⅛ in	5JLZ0	2 ½ in	6 ¼ in	4GCD2	2 ½ in	6 ¼ in	5JMA0
1 in	2 9/16 in	5 in	5JLV7	2 9/16 in	7 1/16 in	5JLZ1	2 ⅞ in	7 3/16 in	4GCD3	3 in	7 3/16 in	5JMA1
1 ¼ in	2 25/32 in	5 5/16 in	5JLV8	2 25/32 in	2 25/32 in	5JLZ2	3 ¼ in	8 9/16 in	4GCD4	8 9/16 in	8 9/16 in	5JMA2
1 ½ in	2 13/16 in	6 11/32 in	5JLV9	9 ½ in	2 13/16 in	5JLZ3	3 ½ in	9 9/16 in	4GCD5	3 ½ in	9 ⅝ in	5JMA3
2 in	3 5/16 in	7 7/16 in	5JLW0	3 5/16 in	11 ½ in	5JLZ4	3 ¾ in	11 ¾ in	4GCD6	11 ¾ in	11 ¾ in	5JMA4
2 ½ in	4 3/16 in	9 ⅛ in	5JLW1	4 3/16 in	14 5/16 in	5JLZ5	4 ⅝ in	14 ½ in	4GCD7	—	—	—
3 in	4 ⅝ in	10 15/32 in	5JLW2	4 ⅝ in	16 ⅝ in	5JLZ6	5 in	16 ¾ in	4GCD8	—	—	—

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 125 Item No.
Non-Rising Valve Stem Type, Solder			
⅜ in	1 ⅝ in	3 9/16 in	1WEF1
½ in	1 ⅞ in	3 9/16 in	1WEF2
¾ in	2 ½ in	4 ¾ in	1WEF3
1 in	3 in	5 in	1WEF4
1 ¼ in	3 ¼ in	5 ½ in	1WEF5
1 ½ in	3 ⅝ in	6 ½ in	1WEF6
2 in	4 5/16 in	7 7/16 in	1WEF7
2 ½ in	4 13/16 in	9 ⅛ in	1WEF8
3 in	5 7/16 in	10 ⅜ in	1WEF9
Rising Valve Stem Type, Solder			
⅜ in	1 ⅝ in	4 5/16 in	5MPJ0
½ in	1 ⅞ in	4 5/16 in	5MPJ1
¾ in	2 ½ in	6 ¼ in	5MPJ2
1 in	3 in	7 in	5MPJ3
1 ¼ in	3 ¼ in	8 ⅝ in	5MPJ4
1 ½ in	3 ⅝ in	9 ½ in	5MPJ5
2 in	4 5/16 in	11 ½ in	5MPJ6
2 ½ in	4 13/16 in	14 5/16 in	4GCE8
3 in	5 7/16 in	16 ⅜ in	4GCE9
4 in	7 ¼ in	15 ½ in	4GCF1

Nonrising Stem, FNPT
5EMU0

Rising Stem, Solder
5EMW4

MILWAUKEE VALVE

Lead-Free Bronze Gate Valves

- Max. water pressure: 300 psi CWP
- Max. temp.: 180°F

Valves act as a shutoff and can be used fully open or fully closed. Bronze body, stem, and wedge. Malleable-iron wheel handle. Full port. For use in water and compressed air applications. Certified for use in potable water applications. Meet NSF/ANSI 61-8 and MSS SP-80.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
Non-Rising Stem, FNPT			
¼ in	1 ¾ in	3 ⅝ in	5EMU0
⅜ in	1 13/16 in	3 ⅝ in	5EMU1
½ in	2 in	6 ⅝ in	5EMU2
¾ in	2 ⅛ in	4 ⅜ in	5EMU3
1 in	2 9/16 in	5 in	5EMU4
1 ¼ in	2 25/32 in	5 5/16 in	5EMU5
1 ½ in	2 13/16 in	6 11/32 in	5EMU6
2 in	3 5/16 in	7 7/16 in	5EMU7
Non-Rising Stem, Solder			
½ in	1 ⅞ in	3 9/16 in	5EMU9
1 in	3 in	5 in	5EMV1
1 ½ in	3 ⅝ in	6 ½ in	5EMV3
2 in	4 5/16 in	7 7/16 in	5EMV4
Rising Stem, FNPT			
¼ in	1 ¾ in	4 ⅜ in	5EMV5
⅜ in	1 13/16 in	4 ⅜ in	5EMV6
½ in	2 in	4 ⅜ in	5EMV7
¾ in	2 ⅛ in	5 27/32 in	5EMV8
1 ½ in	2 13/16 in	9 ½ in	5EMW1
1 in	2 9/16 in	7 1/16 in	5EMV9
1 ¼ in	2 25/32 in	8 25/32 in	5EMW0
2 in	3 5/16 in	11 ½ in	5EMW2
Rising Stem, Solder			
½ in	1 ⅞ in	4 5/16 in	5EMW4
¾ in	2 ½ in	6 ¼ in	5EMW5
1 in	3 in	7 in	5EMW6
1 ¼ in	3 ¼ in	8 ⅝ in	5EMW7
1 ½ in	3 ⅝ in	9 ½ in	5EMW8
2 in	3 ¾ in	11 ½ in	5EMW9

NIBCO

Bronze Flat-Top Gate Valves

- Max. water pressure: 200 psi CWP
- Max. temp.: 200°F

General-purpose valves isolate flow in irrigation piping systems. Dezincification-resistant. Nonrising stem. Bronze body and wedge, silicon bronze stem. Aluminum wheel handle. Meet ASTM B-584.

Note: Not recommended for use with hydrocarbons.

6P964

6P972

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Solder Item No.
½ in	1 13/16 in	2 ½ in	6P964	—
¾ in	2 in	2 ½ in	6P965	—
1 in	2 5/16 in	3 9/16 in	—	6P972
1 in	2 5/16 in	3 11/16 in	6P966	—
1 ¼ in	2 ⅝ in	3 11/16 in	6P967	6P973
1 ½ in	2 ¾ in	4 3/16 in	6P968	6P974
2 in	2 ⅞ in	4 ½ in	6P969	6P975

Lead-Free Brass Gate Valves

MILWAUKEE VALVE

- Max. water pressure: 200 psi CWP
- Max. temp.: 200°F

Feature a nonrising stem that is ideal for use in areas with limited vertical space. Brass wedge, stem, and threaded bonnet. Cast-iron wheel handle. Certified for use in potable water applications. Meet NSF/ANSI 61-8.

39A259

Pipe Size	Top of Handle to Inlet Center	NPT Inlet to Outlet Length	NPT Item No.	Solder Inlet to Outlet Length	Solder Item No.
¼ in	2 27/32 in	1 ⅝ in	39A259	—	—
⅜ in	2 27/32 in	1 ⅝ in	39A260	1 ⅝ in	39A267
½ in	2 29/32 in	1 11/16 in	39A261	1 25/32 in	39A268
¾ in	3 5/16 in	1 27/32 in	39A262	2 5/16 in	39A269
1 in	3 15/16 in	2 3/16 in	39A263	2 27/32 in	39A270
1 ¼ in	4 11/32 in	2 27/64 in	39A264	3 in	39A271
1 ½ in	4 15/16 in	2 7/16 in	39A265	3 7/32 in	39A272
2 in	6 1/32 in	2 27/32 in	39A266	3 31/32 in	39A273

Brass Gate Valves

- Max. water pressure: 200 psi CWP, 125 psi SWP
- Max. temp.: 212°F; 6TWK1 to 6TWK3 are 176°F

Main shutoff valves must be used fully open or fully closed in water and compressed air applications. Nonrising stem can be used in limited vertical space. Brass disc, wedge, stem, and screw-in bonnet. Cast-iron wheel handle. Full port. FNPT connections. Meet NSF/ANSI 61.

6TWJ6

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
¼ in	1 61/100 in	2 11/25	6TWJ6
⅜ in	1 61/100 in	2 ½	6TWJ7
½ in	1 77/100 in	2 87/100	6TWJ8
¾ in	1 17/20 in	3 19/100 in	6TWJ9
1 in	2 13/100 in	3 7/10 in	6TWK0
1 ¼ in	2 17/50 in	4 33/100	6TWK1
1 ½ in	2 14/25 in	4 23/25	6TWK2
2 in	2 19/25 in	5 ¾ in	6TWK3

FNPT
1PRG6

Socket
Weld
1PRH5

Forged Carbon Steel Gate Valves

- Max. pressure: 1460 psi steam; 1975 psi CWP
- Max. temp.: 850°F

Class 800 valves withstand high pressures and temperatures. Carbon steel body construction with 410 stainless steel rising stem and wedge, and carbon steel handwheel. With outside screw and yoke and bolted bonnet. Meet API 602, BS 5352, ASTM A105, and NACE MR-0175.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Socket Item No.
¼ in	3 7⁄64 in	6 ½ in	**1PRG6**	**1PRH5**
⅜ in	3 7⁄64 in	6 ½ in	**1PRG7**	**1PRH6**
½ in	3 7⁄64 in	6 35⁄64 in	**1PRG8**	**1PRH7**
¾ in	3 37⁄64 in	6 21⁄32 in	**1PRG9**	**1PRH8**
1 in	4 ⅜ in	7 19⁄32 in	**1PRH1**	**1PRH9**
1 ¼ in	4 23⁄32 in	9 1⁄16 in	**1PRH2**	**1PRJ1**
1 ½ in	4 23⁄32 in	9 1⁄16 in	**1PRH3**	**1PRJ2**
2 in	5 33⁄64 in	11 9⁄64 in	**1PRH4**	**1PRJ3**

Flanged
1PRG1

FNPT
4VMV9

FNPT
1PRJ4

Stainless Steel Gate Valves

Ideal for refinery, chemical, and other process applications.

CLASS 150 FLANGED

- Max. pressure: 150 psi steam; 275 psi CWP
- Max. temp.: 450°F

Corrosion-resistant valves feature a flexible gate to assure proper placement; valves can absorb pipe stress without leaking. Rising stem is 316 stainless steel; handwheel is cast-iron. With bolted bonnet and outside screw and yoke. Meet API 603 and ASTMA-351.

CLASS 200

- Max. pressure: 200 psi CWP
- Max. temp.: 365°F

Corrosion-resistant construction with 316 stainless steel nonrising stem, bonnet, body, and wedge. Aluminum handwheels.

CLASS 800

- Max. pressure: 1225 psi steam; 1600 psi CWP
- Max. temp.: 850°F

Forged 316L stainless steel bonnet and body provide excellent corrosion resistance and withstand high pressures and temperatures. Rising stem and wedge are 316 stainless steel; carbon steel handwheel. Feature outside screw and yoke and bolted bonnet. Meet API 602 and ASTM A182.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 150 Flange Item No.
1 in	5 in	9 in	**1PRG1**
1 ½ in	6 ½ in	11 in	**1PRG2**
2 in	7 in	12 19⁄32 in	**1PRG3**
3 in	8 in	16 13⁄32 in	**1PRG4**
4 in	9 in	20 in	**1PRG5**

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 200 FNPT Item No.	Class 200 Socket Item No.
½ in	2 17/100 in	3 47/50	**4VMV9**	—
¾ in	2 9/25 in	4 21/100	**4VMW1**	—
1 in	2 14/25 in	4 33/100	**4VMW2**	—
1 ¼ in	2 19/20 in	5 3/25	**4VMW3**	—
1 ½ in	3 7/20 in	5 79/100	**4VMW4**	—
2 in	3 37/50 in	6 69/100	**4VMW5**	**4VMX2**

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Class 800 FNPT Item No.	Class 800 Socket Item No.
½ in	3 5⁄32 in	5 ⅛ in	**1PRJ4**	**1PRK1**
¾ in	3 35⁄64 in	5 25⁄64 in	**1PRJ5**	**1PRK2**
1 in	4 21⁄64 in	6 ⅜ in	**1PRJ6**	**1PRK3**
1 ¼ in	5 in	7 1⁄32 in	**1PRJ7**	**1PRK4**
1 ½ in	5 in	8 ⅝ in	**1PRJ8**	**1PRK5**
2 in	5 ⅛ in	9 1⁄16 in	**1PRJ9**	**1PRK6**

4HCK7

Aluminum and Cast- and Ductile-Iron Flanged Gate Valves

MILWAUKEE VALVE · NIBCO · WATTS REGULATOR

MILWAUKEE, 4HCK7

- Double disc
- Bronze stem and wedge; aluminum handwheel

Meets TTMA and conforms to MIL-V-58039 Type 1.

MILWAUKEE, CLASS 125

- Cast-iron bonnet, wedge, and handwheel

Meet MSS SP-70.

NIBCO, CLASS 125

- Ductile-iron bonnet, wedge, and handwheel

Low-lead and certified for use in potable water applications. Meet AWWA C509.

WATTS, CLASS 200

- Cast-iron bonnet, wedge, and handwheel

Suitable for throttling. Meet ASTM A126 Class B Iron, AWWA 509, FM, and MSS-SP-70. UL and C-UL Listed.

WATTS, CLASS 250

- Cast-iron bonnet, wedge, and handwheel

Epoxy-coated valve is used in fire protection applications. Suitable for throttling. Meet ASTM A126 Class B Iron, AWWA 509, FM, and MSS-SP-70. UL and C-UL Listed.

1JFL8

1WPD7

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Aluminum, Rising Stem Item No.
Milwaukee Valve					
4 in	5 ⅜ in	14 ½ in	125 psi	180 °F	**4HCK7**

Pipe Size	Inlet to Outlet Length	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 125, Cast Iron, Rising, Brass Stem Top of Handle to Inlet Center	Item No.	Class 125, Cast Iron, Non-Rising, Brass Stem Top of Handle to Inlet Center	Item No.	Class 125, Cast Iron, Non-Rising, Stainless Steel Stem Top of Handle to Inlet Center	Item No.
Milwaukee Valve									
2 in	7 in	200 psi	353 °F	14 45⁄64 in	**1JFL8**	12 in	**5JMC2**	12 ¼ in	**5MPH4**
2 ½ in	7 ½ in	200 psi	353 °F	16 ½ in	**1JFL9**	13 ¼ in	**5JMC3**	13 ¼ in	**5MPH5**
3 in	8 in	200 psi	353 °F	18 19⁄32 in	**1JGL1**	15 in	**5JMC4**	15 in	**5MPH6**
4 in	9 in	200 psi	353 °F	23 45⁄64 in	**1JGL2**	17 ¾ in	**5JMC5**	17 ¾ in	**5MPH7**
5 in	10 in	200 psi	353 °F	28 19⁄64 in	**1JGL3**	20 ⅛ in	**5JMC6**	20 ⅛ in	**5MPH8**
6 in	10 ½ in	200 psi	353 °F	32 13⁄32 in	**1JGL4**	23 ⅛ in	**5JMC7**	23 ⅛ in	**5MPH9**
8 in	11 ½ in	200 psi	353 °F	39 29⁄32 in	**1JGL5**	27 ¾ in	**5JMC8**	—	—

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 125, Ductile-Iron, Non-Rising Stem Item No.
NIBCO					
2 in	7 in	10 in	300 psi	160 °F	**1WPD4**
2 ½ in	7 ½ in	11 19⁄64 in	300 psi	160 °F	**1WPD5**
3 in	8 in	12 19⁄32 in	300 psi	160 °F	**1WPD6**
4 in	9 in	13 ½ in	300 psi	160 °F	**1WPD7**
6 in	10 ½ in	17 13⁄32 in	300 psi	160 °F	**1WPD8**
8 in	11 ½ in	20 51⁄64 in	300 psi	160 °F	**1WPD9**

Pipe Size	Inlet to Outlet Length	Max. Water Pressure - CWP	Valve Max. Fluid Temp.	Class 200, Cast-Iron, Non-Rising Stem Top of Handle to Inlet Center	Item No.	Class 250, Cast-Iron Top of Handle to Inlet Center	Item No.
Watts							
2½"	7 ½ in	200 psi	140 °F	9 1⁄16 in	**1RCY4**	—	—
2½"	7 ½ in	250 psi	140 °F	—	—	16 ⅜ in	**1RCZ1**
3"	8 in	200 psi	140 °F	10 ¼ in	**1RCY6**	—	—
3"	8 in	250 psi	140 °F	—	—	18 ½ in	**1RCZ3**
4"	9 in	200 psi	140 °F	12 ½ in	**1RCY8**	—	—
4"	9 in	250 psi	140 °F	—	—	22 ¾ in	**1RCZ4**

Bronze Globe Valves

- Rising stems
- Malleable iron handwheels

MILWAUKEE VALVE

For use in HVAC and other general commercial and industrial utility applications with hot and cold water, steam, compressed air, and gas. Class 125 WOG has threaded bonnet, Classes 150 SWP and 300 WOG have union bonnet. All valves meet MSS SP-80. Body, screw-in and union bonnet, seat disc, disc holder, packing gland, and nut meet ASTM B-62.

Pipe Size	Class 125, FNPT, Max. Water Press.: 200 psi, Max. Fluid Temp.: 406°F		Class 125, Socket, Max. Water Press.: 200 psi, Max. Fluid Temp.: 406°F		Class 150, FNPT, Max. Water Press.: 300 psi, Max. Fluid Temp.: 406°F		Class 200, FNPT, Max. Water Press.: 400 psi, Max. Fluid Temp.: 550°F		Class 300, FNPT, Max. Water Press.: 600 psi, Max. Fluid Temp.: 550°F	
	Inlet to Outlet Length	Item No.	Inlet to Outlet Length	Item No.	Inlet to Outlet Length	Item No.	Inlet to Outlet Length	Item No.	Inlet to Outlet Length	Item No.
1/8"	1 5/8 in	**1JLB5**	—	—	2 1/16 in	**1JLC7**	2 1/16 in	**4GCF4**	—	—
1/4"	1 5/8 in	**1JLB6**	—	—	2 1/16 in	**1JLC8**	2 1/16 in	**4GCF5**	2 1/16 in	**1JLD9**
3/8"	1 13/16 in	**1JLB7**	1 13/16 in	**5MPJ7**	2 1/16 in	**1JLC9**	2 1/16 in	**4GCF6**	2 1/16 in	**1JLE1**
1/2"	2 5/16 in	**1JLB8**	2 5/16 in	**5MPJ8**	2 7/16 in	**1JLD1**	2 7/16 in	**4GCF7**	2 7/16 in	**1JLE2**
3/4"	2 9/16 in	**1JLB9**	2 35/64 in	**5MPJ9**	2 15/16 in	**1JLD2**	2 15/16 in	**4GCF8**	2 15/16 in	**1JLE3**
1"	2 15/16 in	**1JLC1**	2 15/16 in	**5MPK0**	3 7/16 in	**1JLD3**	3 7/16 in	**4GCF9**	3 7/16 in	**1JLE4**
1 1/4"	3 3/8 in	**1JLC2**	3 3/8 in	**5MPK1**	3 7/8 in	**1JLD4**	3 7/8 in	**4GCG1**	3 7/8 in	**1JLE5**
1 1/2"	3 11/16 in	**1JLC3**	3 11/16 in	**4GCF2**	4 1/2 in	**1JLD5**	4 1/2 in	**4GCG2**	4 1/2 in	**1JLE6**
2"	4 7/16 in	**1JLC4**	4 7/16 in	**4GCF3**	5 3/4 in	**1JLD6**	5 3/4 in	**4GCG3**	5 3/4 in	**1JLE7**
2 1/2"	5 3/4 in	**1JLC5**	—	—	6 /34 in	**1JLD7**	—	—	—	—
3"	6 7/8 in	**1JLC6**	—	—	8 in	**1JLD8**	8 in	**4GCG4**	—	—

1JLD9

Forged Steel Globe Valves

- Max pressure: 720 psi SWP, 1975 psi CWP
- Max. temp.: 1000°F

Include bolted bonnets and GraFoil gaskets/packing. Nonrising stem. Class 800. Meet ASTM A105, BS 5352, and NACE MR-0175.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	FNPT Item No.	Socket Weld Item No.
1/4"	3 7/64 in	6 17/32"	**1PRK7**	**1PRL6**
3/8"	3 7/64 in	6 17/32"	**1PRK8**	**1PRL7**
1/2"	3 7/64 in	6 17/32"	**1PRK9**	**1PRL8**
3/4"	3 5/8 in	6 57/64"	**1PRL1**	**1PRL9**
1"	3 15/16 in	8 7/64"	**1PRL2**	**1PRN1**
1 1/4"	4 23/32 in	10 5/16"	**1PRL3**	**1PRN2**
1 1/2"	5 63/64 in	10 5/16"	**1PRL4**	**1PRN3**
2"	6 49/64 in	11 13/16"	**1PRL5**	**1PRN4**

FNPT 1PRK7

PVC and ABS Gate and Check Valves

VALTERRA

Quick-opening valves provide unrestricted flow for low-pressure tank and drain applications with liquids, gases, dry/bulk solids, and slurry. Quick shutoff in low-pressure or vacuum lines. Can disassemble for in-line servicing. Meet MSS SP-70.

GATE VALVES

- Max. temp.: 167°F; 4HGE8 and 4HGE9 are 205°F

Pipe Size	Connec. Type	Body Material	Wedge Material	Max. Water Pressure - CWP	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
Gate Valves							
1 1/2 in	FIPT x MIPT	PVC	Polypropylene	45 psi	3 3/8 in	5 1/8 in	**4HGF3**
	Slip	ABS	Polypropylene	45 psi	2 7/8 in	5 1/8 in	**4HGE8**
2 in	FIPT	PVC	304 Stainless Steel	40 psi	3 1/2 in	5 1/2 in	**4HGD7**
	FIPT x MIPT	PVC	304 Stainless Steel	40 psi	3 1/2 in	5 1/2 in	**4HGD8**
	Slip	ABS	Polypropylene	70 psi	3 1/8 in	5 1/2 in	**4HGE9**
	Slip	PVC	Polypropylene	40 psi	3 1/2 in	5 1/2 in	**4HGF4**
	Spigot	PVC	Polypropylene	40 psi	3 1/2 in	5 1/2 in	**4HGF6**
3 in	FIPT	PVC	304 Stainless Steel	30 psi	4 1/2 in	7 5/32 in	**4HGE2**
	FIPT x MIPT	PVC	304 Stainless Steel	30 psi	4 1/2 in	7 5/32 in	**4HGE3**
	Slip	PVC	304 Stainless Steel	30 psi	4 1/2 in	7 5/32 in	**4HGD9**
4 in	Slip	PVC	304 Stainless Steel	20 psi	5 3/16 in	9 15/16 in	**4HGE5**
6 in	Slip	PVC	304 Stainless Steel	10 psi	11 1/8 in	16 27/32 in	**4HGE6**
8 in	Slip	PVC	304 Stainless Steel	10 psi	13 3/4 in	16 27/32 in	**4HGE7**
10 in	Slip	PVC	304 Stainless Steel	10 psi	13 1/8 in	23 3/4 in	**4HGF9**
12 in	Slip	PVC	304 Stainless Steel	10 psi	15 1/8 in	23 3/4 in	**4HGG1**

** Clear color.*

CHECK VALVES

- Max. water pressure: 150 psi, except 35ZY65 is 75 psi
- Max. temp.: 73°F

Provide quiet operation and combine the benefits of a spring and a swing check valve. The full-flow design eliminates the restriction of a spring center poppet and allows up to 15% more flow than comparable spring check valves. PVC construction with 316 SS spring. White color, except where indicated in the table.

Size	Connec. Type	Mounting Position	L	W	Overall Height	Item No.
Check Valves						
1/2"	FPT x FPT	Any	2 7/64 in	2 7/64 in	3 13/16 in	**35ZY67** *
	Slip x Slip	Any	2 1/8 in	2 1/8 in	3 51/64 in	**35ZY58**
3/4"	FPT x FPT	Any	2 5/16 in	2 5/16 in	4 in	**35ZY61**
	FPT x FPT	Any	2 5/16 in	2 5/16 in	4 in	**35ZY69** *
	Slip x Slip	Any	2 5/16 in	2 5/16 in	4 in	**35ZY60**
	Slip x Slip	Any	2 5/16 in	2 5/16 in	4 in	**35ZY68** *
1"	Slip x Slip	Any	2 13/16 in	2 13/16 in	5 in	**35ZY62**
	Slip x Slip	Any	2 13/16 in	2 13/16 in	4 29/32 in	**35ZY70** *
1 1/2"	Slip x Slip	Horizontal	3 13/34 in	3 13/34 in	6 7/64 in	**35ZY63**
	Slip x Slip	Horizontal	3 13/32 in	3 13/32 in	6 7/64 in	**35ZY71** *
2"	Slip x Slip	Horizontal	4 1/2 in	4 1/2 in	7 7/64 in	**35ZY64**
	Slip x Slip	Horizontal	4 1/2 in	4 1/2 in	7 7/64 in	**35ZY72**
	Union x Union	Any	4 1/2 in	4 1/2 in	10 1/2 in	**35ZY74** *
	Union x Union	Any	6 1/4 in	3 1/2 in	3 1/2 in	**35ZY73** *
3"	Slip x Slip	Any	5 39/64 in	5 39/64 in	9 13/32 in	**35ZY65**

Gate Valve 4HGE6

Check Valve 35ZY67

Bronze Angle Globe Valves

MILWAUKEE VALVE
NIBCO

Suitable for throttling service and feature adjustable packing nuts for extended service life, full NPT thread depths, union bonnet, and malleable iron handwheels. Dezincification resistant. Meet MSS SP-80.

CLASS 125

- Max. pressure: 125 psi SWP, except 1JLE8 is 300 psi SWP
- Max. temp.: 353°F

CLASS 300

- Max. pressure: 300 psi SWP
- Max. temp.: 550°F

Pipe Size	MILWAUKEE Class 125, FNPT Item No.	NIBCO Class 125, Solder Item No.	MILWAUKEE Class 300, FNPT Item No.
1/4"	**1JLE8**	—	**5JLX9**
3/8"	**1JLE9**	**1WPU5**	**5JLY0**
1/2"	**1JLF1**	**1WPU6**	**5JLY1**
3/4"	**1JLF2**	**1WPU7**	**5JLY2**
1"	**1JLF3**	**1WPU8**	**5JLY3**
1 1/4"	**1JLF4**	—	**5JLY4**
1 1/2"	**1JLF5**	**1WPV1**	**5JLY5**
2"	**1JLF6**	—	**5JLY6**

Class 125, FNPT 1JLE8

Bronze Y-Pattern Blowoff Valves

UNITED

- Max. pressure: 200 psi SWP
- Max. temp.: 406°F

For use with gas, oil, steam, and water. Rising naval brass stem, ductile iron handwheel, swivel disc holder with PTFE disc, and union bonnet. FNPT connection. Meet MSS SP-80.

Pipe Size	Inlet to Outlet Length	Top of Handle to Inlet Center	Item No.
1"	4 3/4 in	5 3/4"	**45A298**
1 1/4"	5 9/16 in	7"	**45A299**
1 1/2"	6 1/4 in	7 3/4"	**45A301**
2"	7 3/4 in	8 3/4"	**45A302**

45A298

Bronze Pressure Regulators *Cash Valve*

- Series B direct-acting regulators, except D6714 is Series A self-actuating, 31LH28 is Series EB45

Single-seated, diaphragm-type valves reduce high initial inlet pressures; maintain pressure within reasonably close limits. FNPT connections, except 31LH28 has MNPT.

Inlet Size	L	H	▶CHOOSE: Pressure Adjustment Range (psi)	Max. Press.: 250 psi Max. Temp.: 400 °F Item No.	Max. Press.: 400 psi Max. Temp.: 180 °F Item No.
1/4 in	3 in	4 5/8 in	20 to 100, 20 to 60, 2 to 25, 50 to 150	**D6718**	**D6727**
3/8 in	3 7/8 in	6 1/4 in	20 to 70, 2 to 30, 40 to 110, 90 to 150	**D6719**	**D6728**
1/2 in	2 7/8 in	6 1/8 in	75 to 125, 0 to 5, 100 to 250, 2 to 25, 20 to 60, 40 to 80, 75 to 200	—	**D6714**
	4 1/2 in	6 5/8 in	10 to 50, 2 to 30, 30 to 125, 50 to 150	**D6721**	**D6729**
3/4 in	3 13/32 in	5 1/8 in	10 to 70	—	**31LH28**
	5 1/8 in	6 3/4 in	10 to 35, 105 to 150, 2 to 20, 30 to 75, 50 to 110	**D6722**	**D6731**
1 in	2 1/8 in	7 5/8 in	10 to 45, 20 to 60, 2 to 20, 55 to 100, 90 to 150	**D6723**	**D6732**
1 1/4 in	6 3/4 in	8 3/4 in	10 to 30, 20 to 50, 2 to 15, 45 to 100, 90 to 150	**D6724**	**D6733**
1 1/2 in	6 3/4 in	8 3/4 in	10 to 30, 20 to 50, 2 to 15, 45 to 100, 90 to 150	**D6725**	**D6734**
2 in	9 1/4 in	12 in	10 to 60, 20 to 100, 2 to 20, 90 to 150	**D6726**	**D6735**

D6723

5DMC8

5DMD6

Water and No. 2 Oil Pressure Regulators

- Max. pressure: 300 psi
- Max. temp.: 140°F

For use in water and No. 2 fuel oil pressure regulation in small, general-purpose piping system applications. FNPT connections. Lead-Free regulators are certified for use in potable water applications.

SERIES LF26A, LEAD FREE BRASS BODY

2-way valves have brass construction and an oversized orifice.

SERIES LF263A, LEAD FREE BRASS BODY AND SERIES 263A, STAINLESS STEEL BODY

3-way valves feature an aluminum spring cage, Buna N stainless steel disc, reinforced Buna N diaphragm, tee handle adjustment, and ¼" low-pressure gauge port.

SERIES SS-263AP, STAINLESS STEEL BODY

Stainless steel body, spring cage, and adjusting screw. Oversized orifice.

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Item No.
Series LF26A, Lead Free Brass Body					
¼ in	¼ in	2 ⅛ in	4 ⅜ in	1 to 25 psi	**5DMC7**
				3 to 50 psi	**5DMC8**
				10 to 125 psi	**40F291**
⅜ in	⅜ in			1 to 25 psi	**26X102**
				3 to 50 psi	**5DMC9**
				10 to 125 psi	**40F292**
				50 to 175 psi	**40F293**
½ in	½ in			1 to 25 psi	**5DMD1**
				3 to 50 psi	**5DMD2**
				10 to 125 psi	**40F294**
Series LF263A, Lead Free Brass Body					
¼ in	¼ in	2 ⅛ in	4 ⅜ in	3 to 50 psi	**5DMD4**
				10 to 125 psi	**26X103**
⅜ in	⅜ in			1 to 25 psi	**5DMD5**
				3 to 50 psi	**5DMD3**
				10 to 125 psi	**26X104**
½ in	½ in			1 to 25 psi	**5DMD7**
				3 to 50 psi	**5DMD6**
				10 to 125 psi	**26X105**
Rebuild Kits					
½ in	½ in	2 ⅛ in	4 ⅜ in	20 to 175 psi	**40F295**

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Item No.
Series LF263A, Lead Free Brass Body					
½ in	½ in	2 ⅛ in	4 ⅜ in	50 to 175 psi	**26X106**
Series 263A, Stainless Steel Body					
¼ in	¼ in	2 ⅛ in	4 ⅜ in	1 to 25 psi	**3AYZ3**
				3 to 50 psi	**3AYZ4**
				10 to 125 psi	**3AYZ5**
				100 to 300 psi	**3AYZ7**
⅜ in	⅜ in			1 to 25 psi	**3AYZ8**
				3 to 50 psi	**3AYZ9**
				10 to 125 psi	**3AZA1**
				20 to 175 psi	**3AZA2**
				100 to 300 psi	**3AZA3**
½ in	½ in			1 to 25 psi	**3AYY6**
				20 to 175 psi	**3AYY7**
				100 to 300 psi	**3AYY8**
Series SS-263AP, Stainless Steel Body					
½ in	½ in	2 ⅛ in	4 ¾ in	3 to 50 psi	**1KCL9**
				10 to 125 psi	**1KDL1**

Water Pressure Regulators

30PT96

1DMK5

FNPT connections, except 26X143 is FGHT x MGHT.

BRASS

- Max. pressure: 300 psi
- Max. temp.: 140°F

Ideal for use in non-potable water and No. 2 fuel oil pressure regulation in small, general-purpose piping system applications. NBR, EPDM seals and a T-handle adjustment. Series 26A two-way brass valves feature an oversized orifice. Series 263A three-way brass valves have a Buna N disc, Buna N reinforced diaphragm, an aluminum spring cage, and ¼" low-pressure gauge port.

BRONZE

- Max. pressure: 100 psi
- Max. temp.: 212°F

Designed to fill boiler and system piping with water and to maintain water pressure in the system. An innovative push-button fast fill engagement with auto-stop helps prevents over-pressurizing the system. Dial indicator eliminates need for pressure gauge.

LEAD-FREE BRASS

- Max. pressure: 300 psi
- Max. temp.: 140°F

Certified for use in potable water applications.

THERMOPLASTIC

- Max. pressure: 300 psi
- Max. temp.: 150°F

Use in OEM irrigation and industrial applications that require a constant downstream flow. Corrosion-resistant, molded plastic body with 300 Series stainless steel and food-grade rubber internal components.

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range	Brand	Mfr. Model	Item No.	
Brass Body								
Series 2-Way Brass								
¼ in	¼ in	2 ⅛ in	4 ⅜ in	1 to 25 psi	—	30PT96	**30PT96**	
				3 to 50 psi	—	30PT97	**30PT97**	
⅜ in	⅜ in			1 to 25 psi	—	30PT98	**30PT98**	
				3 to 50 psi	—	30PT99	**30PT99**	
½ in	½ in			1 to 25 psi	—	30PV01	**30PV01**	
				3 to 50 psi	—	30PV02	**30PV02**	
Series 3-Way Brass								
¼ in	¼ in	2 ⅛ in	4 ⅜ in	1 to 25 psi	—	30PV03	**30PV03**	
				3 to 50 psi	—	30PV04	**30PV04**	
⅜ in	⅜ in			3 to 50 psi	—	30PV07	**30PV07**	
½ in	½ in			1 to 25 psi	—	30PV10	**30PV10**	
				3 to 50 psi	—	30PV11	**30PV11**	
				10 to 125 psi	—	30PV12	**30PV12**	
				50 to 175 psi	—	30PV13	**30PV13**	
Bronze Body								
Series 1156F								
¾ in	¾ in	3 ½ in	6 ½ in	8 to 21 psi	Watts	BD1156F	**54TP06**	
Lead Free Brass Body								
Series 560								
⅛ in	⅛ in	1 ½ in	2 in	0 to 25 psi	Watts	⅛ LF560 0-25	**26X144**	
				0 to 60 psi	Watts	⅛ LF560 0-60	**26X145**	
				0 to 125 psi	Watts	⅛ LF560 0-125	**26X146**	
¼ in	¼ in			0 to 125 psi	Watts	¼ LF560G 0-125	**26X147**	*
				0 to 125 psi	Watts	¼ LF560 0-125	**26X148**	
Series H560G								
¾ in	¾ in	3 in	2 ¼ in	10 to 60 psi	Watts	LFH560-G-3/4	**26X143**	*
Thermoplastic Body								
Series P60								
¼ in	¼ in	2 in	3 in	0 to 125 psi	Watts	p-60	**1DMK5**	

** Includes pressure gauge.*

1RWL4

Pressure Regulators

- Cast-iron body
- FNPT connections, except 49AC45 to 49AC76 are flanged

PRESSURE REGULATORS

- Max. pressure: 250 psi
- Max. temp.: 450°F

For use in steam distribution and pressure control in district heating systems and steam plants. Suitable for single point or multiple use applications and can be used in single-stage, 2-stage, and parallel reductions. 49AC45 to 49AC60 are Class 125, 49AC61 to 49AC76 are Class 250. All models meet ANSI/FCI 70-2 Class IV shutoff, FCI 70-3 Class VI shutoff, ASME/ANSI B16.1.

PILOT-OPERATED

- Max. pressure: 250 psi
- Max. temp.: 450°F

Self-contained for steam line control within ±1 psig of set pressure under varying load conditions. Fitting a sensing line (not included) allows pilot to sense downstream pressure changes and quickly adjust to meet steam demand. All stainless steel internals. Meet ASME B16.1 with ANSI Class 4 seat tightness.

				Pressure Adjustment Range			
Inlet Size	Outlet Size	L	H	3 to 20 psi Item No.	5 to 50 psi Item No.	10 to 100 psi Item No.	20 to 150 psi Item No.
Pressure Regulator							
2 ½ in	2 ½ in	11 in	14 ½ in	**49AC45**	**49AC46**	**49AC47**	**49AC48**
2 ½ in	2 ½ in	11 in	14 ½ in	**49AC61**	**49AC62**	**49AC63**	**49AC64**
3 in	3 in	11 ¾ in	16 in	**49AC49**	**49AC50**	**49AC51**	**49AC52**
3 in	3 in	11 ¾ in	16 in	**49AC65**	**49AC66**	**49AC67**	**49AC68**
4 in	4 in	14 ¾ in	20 in	**49AC53**	**49AC54**	**49AC55**	**49AC56**
4 in	4 in	14 ¾ in	20 in	**49AC69**	**49AC70**	**49AC71**	**49AC72**
6 in	6 in	19 ¾ in	24 ½ in	**49AC57**	**49AC58**	**49AC59**	**49AC60**
6 in	6 in	19 ¾ in	24 ½ in	**49AC73**	**49AC74**	**49AC75**	**49AC76**
Pilot-Operated Pressure Regulator							
½ in	½ in	4 ⅜ in	12 ⅝ in	**1RWL4**	—	**1RWN4**	—
¾ in	¾ in	4 ¾ in	12 ⅞ in	**1RWL5**	—	**1RWN5**	—
1 in	1 in	5 ⅜ in	13 ⅝ in	**1RWL6**	—	**1RWN6**	**1RWP6**
1 ¼ in	1 ¼ in	6 ½ in	13 ⅞ in	**1RWL7**	—	**1RWN7**	**1RWP7**
1 ½ in	1 ½ in	7 ¼ in	14 ½ in	**1RWL8**	—	**1RWN8**	—
2 in	2 in	7 ½ in	15 in	**1RWL9**	—	**1RWN9**	**1RWP9**

Self-Contained Temperature Regulators

SPENCE

Self-operated, 2-way regulators control temperature of water, steam, or other liquid systems without electricity. Thermal system assembly with gauge, 8" bronze capillary. 1" NPT male union bushing. Adjusting screw and calibration scale allow easy setting. Bronze construction with steel springs and seats. Direct-acting valves are used for heating and are normally open; reverse-acting valves are used for cooling and are normally closed. Galvanized FNPT union end connections. Suitable for heat exchangers, kettles, building heat, bottle-washing machinery, plating tanks, heating ducts, cooking vats, and parts washers.

REPLACEMENT THERMOWELLS

- Inlet connection: 1" MNPT
- Max. pressure: 250 psi
- Max. temp.: -25° to 400°F

Allow for removal of temperature probe without having to drain contents from tank.

1RXL5

3EJJ6

Pipe Size	Max. Pressure	Sensor Length	Overall Width	Overall Height	Temp. Range	Direct Acting Temperature Regulator Mfr. Model	Direct Acting Temperature Regulator Item No.	Reverse Acting Temperature Regulator Mfr. Model	Reverse Acting Temperature Regulator Item No.
½"	250 psi	13 ⅜ in	5 ½ in	12 9⁄16 in	120° to 230°F	2010AC-GQK	**1RXN2**	2020AC-GQK	**1RXP5**
		19 in	5 ½ in	12 9⁄16 in	45° to 140°F	2010AC-GQD	**1RXL5**	2020AC-GQD	**1RXN8**
¾"	90 psi	13 ⅜ in	5 ½ in	12 9⁄16 in	120° to 230°F	2010TD-GQK	**1RXN3**	2020TD-GQK	**1RXP6**
		19 in	5 ½ in	12 9⁄16 in	45° to 140°F	2010TD-GQD	**1RXL6**	2020TD-GQD	**1RXN9**
1"	65 psi	13 ⅜ in	7 3⁄16 in	15 ¼ in	120° to 230°F	2010TE-GQK	**1RXN4**	2020TE-GQK	**1RXP7**
		19 in	7 3⁄16 in	15 ¼ in	45° to 140°F	2010TE-GQD	**1RXL7**	—	—
1¼"	40 psi	13 ⅜ in	8 15⁄16 in	15 11⁄16 in	120° to 230°F	2010TF-GQK	**1RXN5**	2020TF-GQK	**1RXP8**
		19 in	8 15⁄16 in	15 11⁄16 in	45° to 140°F	2010TF-GQD	**1RXL8**	2020TF-GQD	**1RXP2**
1½"	30 psi	13 ⅜ in	8 15⁄16 in	15 11⁄16 in	120° to 230°F	2010TG-GQK	**1RXN6**	—	—
		19 in	8 15⁄16 in	15 11⁄16 in	45° to 140°F	2010TG-GQD	**1RXL9**	2020TG-GQD	**1RXP3**
2"	20 psi	13 ⅜ in	8 15⁄16 in	15 11⁄16 in	120° to 230°F	2010TH-GQK	**1RXN7**	—	—
		19 in	8 15⁄16 in	15 11⁄16 in	45° to 140°F	2010TH-GQD	**1RXN1**	2020TH-GQD	**1RXP4**

Material	Insertion Length	Item No.
Replacement Thermowells		
Brass	10 ½ in	**3EJJ6**
	12 ½ in	**3EJJ8**
Stainless Steel	10 ½ in	**3EJJ7**
	12 ½ in	**3EJJ9**

WATTS REGULATOR

5DMA4

Lead-Free Pressure-Reducing Valves—25 AUB Series

- Max. pressure: 300 psi
- Max. temp.: 160°F

Union inlet connection, integral stainless steel strainer, and temp.-resistant reinforced EPDM diaphragm for hot water. Certified for use in potable water applications. All meet ASSE 1003, CSA B356, and are IAPMO Listed, except 26X116 is IAPMO Listed only. 5DMA4 to 5DMA9, 5DMC0, and 26X116 meet Southern Plumbing Code and Mil. Spec. MIL-V-18146B Type I, except 26X116 meets the Mil. Spec. only. 5DMA4 to 5DMA8 meet CSA B356, Southern Plumbing Code, and Mil. Spec. MIL-V-18146B Type I. 5DMA4 to 5DMC0 and 26X116 meet ANSI A112.26.

Pipe Size	Connec. Type	Pressure Adjustment Range 25 to 75 psi Item No.	Pressure Adjustment Range 75 to 125 psi Item No.
½"	FIP	—	**26X116**
	FNPT Union x FNPT	**5DMA4**	—
	FNPT x FNPT	**25CC96**	—
¾"	FNPT Union x FNPT	**5DMA5**	—
	FNPT x FNPT	**25CC97**	**25CD03**
1"	FNPT x FNPT	**25CC98**	**25CD04**
1¼"	FNPT Union x FNPT	**5DMA8**	—
	FNPT x FNPT	**25CC99**	—
1½"	FNPT Union x FNPT	**5DMA9**	—
	FNPT x FNPT	**25CD01**	—
2"	FNPT Union x FNPT	**5DMC0**	—
	FNPT x FNPT	**25CD02**	—

6KJ91

26X107

WATTS REGULATOR

Apollo Valves

High- and Super-Capacity Water Pressure-Reducing Valves

- Adjustable range: 25 to 75 PSI
- Preset pressure: 50 psi

Feature an enlarged diaphragm and orifice and a spring cage to handle high capacities. FNPT connections. Lead-Free valves are certified for use in potable water applications.

APOLLO, SUPER-CAPACITY

- Max. inlet pressure: 400 psi
- Max. temp.: 180°F

With built-in thermal expansion bypass, adjusting screws, nut, cap bolts, and easy access for maintenance/repair. Meet ASSE 1003, ANSI A112.26.2, CSA B356, and IAPMO.

APOLLO, SUPER-CAPACITY LEAD FREE

- Max. pressure: 400 psi
- Max. temp.: 180°F

Use to reduce incoming water pressure to help protect plumbing system components and reduce water consumption. Feature built-in thermal expansion bypass. Meet ASSE 1003, CSA B356, and NSF/ANSI 372.

WATTS

- Max. pressure: 300 psi
- Max. temp.: 160°F

Meet ASSE 1003, ANSI A112.26.2, IAPMO, Mil. Spec. MIL-V-18146B, and CSA B356.

Pipe Size	APOLLO Super Capacity Valve Type, Bronze Item No.	APOLLO Super Capacity Valve Type, Lead Free Bronze Item No.	WATTS Super Capacity Valve Type, Lead Free Brass Item No.
Water Pressure Reducing Valve			
½ in	**6KJ91**	**40D793**	**5DMC1**
¾ in	**6KJ92**	**40D794**	**5DMC2**
1 in	**6KJ93**	**40D795**	**5DMC3**
1 ¼ in	**6KJ94**	**40D796**	**5DMC4**
1 ½ in	**6KJ95**	**40D797**	**5DMC5**
2 in	**6KJ96**	**40D798**	**5DMC6**
2 ½ in	—	**40D799**	—
3 in	—	**40D801**	—

Inlet Size	Outlet Size	WATTS Lead Free Brass Item No.
Water Pressure Regulator Valve		
½ in	½ in	**26X107**
¾ in	¾ in	**26X108**
1 in	1 in	**26X109**
1 ¼ in	1 ¼ in	**26X110**
1 ½ in	1 ½ in	**26X111**
2 in	2 in	**26X112**
2 ½ in	2 ½ in	**26X113**
3 in	3 in	**26X114**

5DLZ4

36JA73

WATTS REGULATOR

Lead-Free, High-Capacity Water Pressure-Reducing Valves—U5B/127W Series

- Max. pressure: 300 psi

U5B Series—All have stainless steel strainer (except 25CC94 and 25CC95), and built-in thermal expansion bypass with check valve. Lead-free brass construction. Certified for use in potable water applications and meet CSA B356 and ASSE 1003. All models are IAPMO Listed, except 26X115. Meet Southern Standard Plumbing Code, except 25CC94, 25CC95, and 26X115. Meet ANSI A112.26, except 25CC94 and 25CC95.

127W Series—Feature a high temperature-resisting diaphragm, interchangeable diaphragm chamber, and replaceable stainless steel seat and stem. Lead-free iron construction, except 36JA73 is lead-free copper silicon alloy.

Pipe Size	10 to 35 psi H	10 to 35 psi Connec. Type	10 to 35 psi Preset Pressure Settings	10 to 35 psi Max. Temp.	10 to 35 psi Item No.	25 to 75 psi H	25 to 75 psi Connec. Type	25 to 75 psi Preset Pressure Settings	25 to 75 psi Max. Temp.	25 to 75 psi Item No.
U5B Series										
½ in	5 ⅞ in	FNPT x FNPT	30 psi	180 °F	**25CC94**	5 ⅞ in	FNPT Union x FNPT	50 psi	160 °F	**5DLZ4**
¾ in	6 ⅞ in	FNPT x FNPT	30 psi	180 °F	**25CC95**	6 ⅞ in	FNPT Union x FNPT	50 psi	160 °F	**5DLZ5**
1 in	7 ⅜ in	FNPT Union x FNPT	20 psi	160 °F	**26X115**	7 ⅜ in	FNPT Union x FNPT	50 psi	160 °F	**5DLZ6**
1 ¼ in	9 ⅜ in	FNPT	30 psi	160 °F	**38YJ09**	8 ⅜ in	FNPT	50 psi	160 °F	**38YJ08**
1 ½ in	8 ⅜ in	FNPT	30 psi	160 °F	**38YJ11**	12 ¼ in	FNPT	50 psi	160 °F	**38YJ10**
2 in	12 ¼ in	FNPT	30 psi	160 °F	**38YJ13**	12 ¼ in	FNPT	50 psi	160 °F	**38YJ12**

Pipe Size	H	Connec. Type	Preset Pressure Settings	Max. Temp.	Pressure Adjustment Range 20 to 100 psi Item No.
127W Series					
3 in	18 ½ in	FNPT	50 psi	160 °F	**36JA73**
3 in	19 ⅞ in	Flanged	50 psi	160 °F	**36JA74**
4 in	20 ⅝ in	Flanged	50 psi	160 °F	**36JA75**

H6903

SPENCE

Direct-Acting Pressure-Reducing Valves

- Max. pressure: 200 psig
- Max. temp.: 400°F

Quick-response, pressure-reducing valves are suitable for air, water, and steam service. Cast-iron construction with internal stainless steel strainer, adjustable pressure screw, and 5 spring ranges. FNPT connections. Meet Class IV shutoff.

▶CHOOSE: Inlet Size	▶CHOOSE: Outlet Size	▶CHOOSE: Pressure Adjustment Range	L	H	Item No.
1 in, 1 ¼ in	1 in, 1 ¼ in	3 to 15 psi, 10 to 30 psi, 30 to 140 psi	7 ½ in	9 ¼ in	**H6903**
1 ½ in, 2 in	1 ½ in, 2 in	5 to 40 psi, 30 to 100 psi	9 in	14 ¼ in	**H6904**

WATTS

Pressure Regulators

Provide a highly sensitive response to reduced pressure changes and can maintain fullest possible volume without appreciable reduced pressure drop. Allow in-line service and feature a sensitivity adjuster that helps eliminate vibrating conditions. Stainless steel seat and disc. FNPT connections. Ideal for use on autoclaves, oil lines, process lines, single radiators, sterilizers, steam tables, and vulcanizers.

PROCESS STEAM PRESSURE REGULATORS

- Max. pressure: 200 psi
- Max. temp.: 300°F

For steam or liquid applications. Iron body.

STEAM PRESSURE REGULATORS

- Max. pressure: 300 psi
- Max. temp.: 420°F

For steam or liquid applications. Stainless steel body.

36JA81

36JA97

Pipe Size	L	H	Pressure Adjustment Range: 3 to 15 psi Item No.	5 to 40 psi Item No.	10 to 30 psi Item No.	10 to 50 psi Item No.	30 to 100 psi Item No.	30 to 140 psi Item No.
Process Steam Pressure Regulators								
½ in	6 in	8 15⁄16 in	**36JA81**	—	—	**36JA82**	—	**36JA83**
¾ in	6 in	8 15⁄16 in	**36JA84**	—	—	**36JA85**	—	**36JA86**
1 in	7 ½ in	9 11⁄16 in	**36JA87**	—	**36JA88**	—	—	**36JA89**
1 ¼ in	7 ½ in	9 11⁄16 in	**36JA90**	—	**36JA91**	—	—	**36JA92**
1 ½ in	9 in	14 in	—	**36JA93**	—	—	**36JA94**	—
2 in	9 in	14 in	—	**36JA95**	—	—	**36JA96**	—

Inlet Size	Outlet Size	L	H	Pressure Adjustment Range: 3 to 15 psi Item No.	10 to 50 psi Item No.	30 to 140 psi Item No.
Steam Pressure Regulators						
½ in	½ in	6 in	8 ¾ in	**36JA97**	—	**36JA99**
¾ in	¾ in	6 in	8 ¾ in	—	**36JC02**	**36JC03**
1 in	1 in	6 in	8 ¾ in	—	**36JC05**	—

40D788

45K833

45K834

ZURN WILKINS · Apollo Valves · CASH ACME — OVERBUILT IS AN UNDERSTATEMENT.

Lead-Free Bronze Water Pressure-Reducing Valves

- Max. pressure: 300 psi, except 40D776 to 40D792 are 400 psi
- Preset pressure settings: 50 psi, except for 49EL62
- Max. temp.: 140°F, except 40D776 to 40D831, 49EL62 are 180°F

Feature a balanced piston design that allows valves to react in a smooth and responsive manner to changes in system flow demand, while also controlling inlet pressure changes. 22N570 to 22N575 have a direct-acting bypass design to help prevent excessive pressure buildup caused by thermal expansion. Include a bypass check valve. All valves have a high-flow capacity and are suitable for use in industrial water lines and commercial irrigation systems. Find Repair Kit contents at Grainger.com. Certified for use in potable water applications. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

Pipe Size	Connec. Type	Press. Adj. Range	L	H	Brand	Item No.
With Strainer						
½"	FNPT Union x FNPT	25 to 75 psi	5 ½ in	6 ¼ in	Zurn	**22N570**
¾"	Double Union FNPT	25 to 75 psi	6 in	6 in	Zurn	**453U62**
	Double Union FNPT Copper Sweat	25 to 75 psi	6 in	6 in	Zurn	**453U63**
	FNPT	25 to 75 psi	4 ⅝ in	5 ½ in	Zurn	**54EF55**
	FNPT	25 to 75 psi	5 5⁄16 in	5 ½ in	Zurn	**54EF53**
	FNPT	25 to 75 psi	5 5⁄16 in	5 ½ in	Zurn	**54EF54**
	FNPT Union x FNPT	25 to 75 psi	5 5⁄16 in	5 ½ in	Zurn	**22N571**
	Single Union FNPT	25 to 75 psi	6 in	6 in	Zurn	**453U61**
1"	Double Union FNPT	25 to 75 psi	5 ⅞ in	6 11⁄16 in	Zurn	**453U59**
	Double Union FNPT Copper Sweat	25 to 75 psi	5 ⅞ in	6 11⁄16 in	Zurn	**453U60**
	FNPT	25 to 75 psi	5 3⁄16 in	7 ¼ in	Zurn	**54EF52**
	FNPT	25 to 75 psi	6 in	7 ¼ in	Zurn	**54EF50**
	FNPT	25 to 75 psi	6 in	7 ¼ in	Zurn	**54EF51**
	FNPT Union x FNPT	25 to 75 psi	6 ⅛ in	7 ¼ in	Zurn	**22N572**
	Single Union FNPT	25 to 75 psi	5 in	6 11⁄16 in	Zurn	**453U58**
	Union x FNPT	25 to 75 psi	10 in	8 ½ in	Zurn	**45K844**
1¼"	FNPT Union x FNPT	25 to 75 psi	7 ⅛ in	8 in	Zurn	**22N573**
1½"	FNPT Union x FNPT	25 to 75 psi	9 ⅛ in	10 in	Zurn	**22N574**
2"	FNPT Union x FNPT	25 to 75 psi	10 ¼ in	12 in	Zurn	**22N575**
Without Strainer						
	NPT	20 to 90 psi	5 ½ in	8 63⁄64 in	Cash Acme	**49EL62**
½"	Double Union FNPT	15 to 75 psi	5 ⅜ in	6 in	Apollo	**40D788**
	Double Union FNPT	25 to 75 psi	5 ⅝ in	5 8/9 in	Apollo	**40D820**
	Double Union Solder	15 to 75 psi	5 ½ in	6 in	Apollo	**40D787**
	Double Union Solder	25 to 75 psi	5 ⅝ in	5 8/9 in	Apollo	**40D826**
	FNPT	15 to 75 psi	3 ⅝ in	6 in	Apollo	**40D776**
	FNPT	25 to 75 psi	4 in	5 8/9 in	Apollo	**40D808**
	FNPT	25 to 75 psi	4 57⁄64 in	5 8/9 in	Apollo	**40D814**
	Single Union FNPT	15 to 75 psi	4 ½ in	6 in	Apollo	**40D782**
	Single Union FNPT	25 to 75 psi	4 57⁄64 in	5 8/9 in	Apollo	**40D802**
	Single Union Solder x FNPT	15 to 75 psi	4 ½ in	6 in	Apollo	**40D781**
	Union x FNPT	25 to 75 psi	4 ½ in	6 in	Zurn	**45K826**
	Union x FNPT	25 to 75 psi	8 ¼ in	7 in	Zurn	**45K842**
¾"	Double Union FNPT	15 to 75 psi	5 ½ in	6 in	Apollo	**40D790**
	Double Union FNPT	25 to 75 psi	5 ⅝ in	5 8/9 in	Apollo	**40D821**
	Double Union Solder	15 to 75 psi	5 ½ in	6 in	Apollo	**40D789**
	Double Union Solder	25 to 75 psi	5 ⅝ in	5 8/9 in	Apollo	**40D827**
	FNPT	15 to 75 psi	3 ⅝ in	6 in	Apollo	**40D778**
	FNPT	25 to 75 psi	3 57⁄64 in	5 8/9 in	Apollo	**40D809**
	Single Union FNPT	15 to 75 psi	4 ½ in	6 in	Apollo	**40D784**
	Single Union FNPT	25 to 75 psi	4 57⁄64 in	5 8/9 in	Apollo	**40D803**
	Single Union Solder x FNPT	15 to 75 psi	4 ½ in	6 in	Apollo	**40D783**
	Single Union Solder x FNPT	25 to 75 psi	4 57⁄64 in	5 8/9 in	Apollo	**40D815**
	Union x FNPT	25 to 75 psi	4 ⅝ in	6 in	Zurn	**45K827**
	Union x FNPT	25 to 75 psi	9 ⅛ in	7 ¾ in	Zurn	**45K843**
1"	Double Union FNPT	15 to 75 psi	5 ¾ in	6 in	Apollo	**40D792**
	Double Union FNPT	25 to 75 psi	6 ⅜ in	6 8/9 in	Apollo	**40D822**
	Double Union Solder	15 to 75 psi	5 ¾ in	6 in	Apollo	**40D791**
	Double Union Solder	25 to 75 psi	6 ⅜ in	6 8/9 in	Apollo	**40D828**
	FNPT	15 to 75 psi	3 ⅝ in	6 in	Apollo	**40D780**
	FNPT	25 to 75 psi	4 ⅝ in	6 8/9 in	Apollo	**40D810**
	Single Union FNPT	15 to 75 psi	4 ⅝ in	6 in	Apollo	**40D786**
	Single Union FNPT	25 to 75 psi	5 ½ in	6 8/9 in	Apollo	**40D804**
	Single Union Solder x FNPT	15 to 75 psi	4 ⅝ in	6 in	Apollo	**40D785**
	Single Union Solder x FNPT	25 to 75 psi	5 ½ in	6 8/9 in	Apollo	**40D816**
	Union x FNPT	25 to 75 psi	5 ⅛ in	6 ⅞ in	Zurn	**45K828**
1¼"	Double Union FNPT	25 to 75 psi	7 ½ in	8 8/9 in	Apollo	**40D823**
	Double Union Solder	25 to 75 psi	7 ¾ in	8 8/9 in	Apollo	**40D829**
	FNPT	25 to 75 psi	5 ⅜ in	8 8/9 in	Apollo	**40D811**
	Single Union FNPT	25 to 75 psi	6 ½ in	8 8/9 in	Apollo	**40D805**
	Single Union Solder x FNPT	25 to 75 psi	6 ⅝ in	8 8/9 in	Apollo	**40D817**
	Union x FNPT	25 to 75 psi	6 5⁄16 in	7 ¼ in	Zurn	**45K829**
	Union x FNPT	25 to 75 psi	13 ⅛ in	9 ¼ in	Zurn	**45K845**
1½"	Double Union FNPT	25 to 75 psi	7 57⁄64 in	8 8/9 in	Apollo	**40D824**
	Double Union Solder	25 to 75 psi	8 in	8 8/9 in	Apollo	**40D830**
	FNPT	25 to 75 psi	5 ⅜ in	8 8/9 in	Apollo	**40D812**
	Single Union FNPT	25 to 75 psi	6 ⅝ in	8 8/9 in	Apollo	**40D806**
	Single Union Solder x FNPT	25 to 75 psi	6 ¾ in	8 8/9 in	Apollo	**40D818**
	Union x FNPT	25 to 75 psi	8 5⁄16 in	10 in	Zurn	**45K830**
	Union x FNPT	25 to 75 psi	17 ⅝ in	11 ¾ in	Zurn	**45K846**
2"	Double Union FNPT	25 to 75 psi	9 57⁄64 in	11 ½ in	Apollo	**40D825**
	Double Union Solder	25 to 75 psi	10 ½ in	11 ½ in	Apollo	**40D831**
	FNPT	25 to 75 psi	7 ⅛ in	11 ½ in	Apollo	**40D813**
	Single Union FNPT	25 to 75 psi	8 ½ in	11 ½ in	Apollo	**40D807**
	Single Union Solder x FNPT	25 to 75 psi	8 57⁄64 in	11 ½ in	Apollo	**40D819**
	Union x FNPT	25 to 75 psi	9 ½ in	10 ¾ in	Zurn	**45K831**
	Union x FNPT	25 to 75 psi	18 ⅝ in	13 ½ in	Zurn	**45K847**
2½"	Union FNPT Inlet x FNPT	25 to 75 psi	10 in	14 ½ in	Zurn	**45K832**
	Union x FNPT	25 to 75 psi	19 ⅜ in	17 ½ in	Zurn	**45K848**
3"	Union FNPT Inlet x FNPT	25 to 75 psi	11 ⅛ in	16 in	Zurn	**45K833**
	Union x FNPT	25 to 75 psi	25 in	19 in	Zurn	**45K849**

Size	For Use With Grainger Item Number	Brand	Item No.
Repair Kits			
½ in	45K826	Zurn	**45K834**
¾ in	45K827	Zurn	**45K835**
1 in	45K828	Zurn	**45K836**
1 ¼ in	45K829	Zurn	**45K837**
1 ½ in	45K830	Zurn	**45K838**
2 in	45K831	Zurn	**45K839**
2 ½ in	45K832	Zurn	**45K840**
3 in	45K833	Zurn	**45K841**
Valve Rebuild Kits			
¾ in	54EF53, 54EF54	Zurn	**54EF57**
1 in	54EF50, 54EF51, 54EF52	Zurn	**54EF56**
8 in, 10 in, 12 in	—	Zurn	**54EF58**

T&P Valves

- Max. temp.: 210°F

Provide automatic temperature and pressure protection for hot water heaters and supply tanks. Test lever allows pressure checks during operation. ASME rated, CSA Certified, and meet ANSI Z21.22.

STANDARD SHANK

4P947 meets FHA requirements and Mil. Spec. MIL-V-136-12D, Type 1.

EXTENDED SHANK

Use with water heaters containing thick insulation.

Standard Shank
2XLA3

Extended Shank
3EEX3

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Thermostat Length	Body Height	BtuH	Factory Set Pressure	Brand	Mfr. Model	Item No.
Standard Shank										
½"	½"	MNPT	FNPT	3"	6¼"	15,000	125 psi	Apollo	18C40129	**3EEX1**
¾"	¾"	FNPT	FNPT	2⅞"	5 9/16"	1,912,000	150 psi	Cash Acme	FVX-3C	**2XLA3**
¾"	¾"	FNPT	FNPT	5"	10⅞"	1,619,000	125 psi	Apollo	18C5125125	**3HFG2**
¾"	¾"	MNPT	FNPT	3"	6"	1,912,000	150 psi	Cash Acme	FVMX-3C	**2XLA6**
¾"	¾"	MNPT	FNPT	3"	6⅛"	105,000	125 psi	Apollo	18C40229	**3EEX2**
¾"	¾"	MNPT	FNPT	4"	3½"	100,000	150 psi	Watts	100XL-4	**4X563**
¾"	¾"	MNPT	FNPT	4"	3½"	105,000	125 psi	Watts	¾ 100XL 125	**3AZA4**
¾"	¾"	MNPT	FNPT	4¾"	6"	1,912,000	150 psi	Cash Acme	FVMX-5C	**2RMY8**
¾"	¾"	MNPT	FNPT	5"	11"	1,619,000	125 psi	Apollo	18C5115125	**3HFG1**
1"	1"	FNPT	FNPT	6"	5½"	670,000	150 psi	Watts	1"140X-6	**4P947**
1"	1"	MNPT	FNPT	3"	8⅝"	1,825,000	125 psi	Apollo	18C5213125	**3HFG3**
1"	1"	MNPT	FNPT	3 1/16"	6"	2,155,000	150 psi	Cash Acme	FVMX-3C	**2XLA4**
1"	1"	MNPT	FNPT	4¾"	6"	2,155,000	150 psi	Cash Acme	FVMX-5C	**2XLA5**
1¼"	1"	MNPT	FNPT	4"	10¼"	3,070,000	125 psi	Apollo	18C5314125	**3HFG4**
1¼"	1"	MNPT	FNPT	4"	10¼"	3,625,000	150 psi	Apollo	18C5314150	**3HFG5**
1½"	1½"	FNPT	FNPT	4"	11 9/16"	5,125,000	125 psi	Apollo	18C5424125	**3HFG6**
1½"	1½"	FNPT	FNPT	4"	11 9/16"	6,050,000	150 psi	Apollo	18C5424150	**3HFG7**
2"	1½"	MNPT	FNPT	3"	11 7/16"	5,125,000	125 psi	Apollo	18C5513125	**3EEW8**
2"	1½"	MNPT	FNPT	3"	11 7/16"	6,050,000	150 psi	Apollo	18C5513150	**3EEW9**
Extended Shank										
¾"	¾"	MNPT	FNPT	2⅛"	5¼"	105,000	150 psi	Watts	LLL100XL	**2XE96**
¾"	¾"	MNPT	FNPT	2½"	6¾"	100,000	150 psi	Watts	LL100XL	**2XE95**
¾"	¾"	MNPT	FNPT	3"	7½"	105,000	125 psi	Apollo	18C402X39	**3EEX3**
¾"	¾"	MNPT	FNPT	4"	4¼"	100,000	150 psi	Watts	L100XL-3	**6LM08**

Boiler Feed Valves

- Max. pressure: 100 psi
- Adjustable pressure range: 10 to 25 psi
- Max. temp.: 212°F

Cast-iron valves permit rapid system fill and sustained air purge flow. With strainer screen. Factory set at 15 psi. 46A967 and 46A968 feature a backflow preventer.

46A976

46A968

Inlet/ Outlet	L	H	Connec. Type	Mfr. Model	Item No.
½ in	3 ½ in	5 ¾ in	MNPT	1156F-A	**46A975**
½ in	3 ½ in	5 ⅜ in	MNPT	B1156F	**46A976**
½ in	4 ⅜ in	5 ⅜ in	Female Solder	SB1156F	**46A974**
½ in	4 ⅛ in	5 ⅜ in	FNPT	TB1156F	**46A977**
½ in	8 ½ in	5 ¼ in	FNPT and NPT Union	B911-M3	**46A967**
½ in	8 ½ in	5 ¼ in	FNPT x Sweat Union	B911S-M3	**46A968**

ASME Section IV Steam Low-Pressure Safety Relief Valves

- Pressure range: 5 to 15 psi; factory preset to 15 psi
- Max. temp.: 250°F

High-capacity valves for medium- and large-size heating boilers. Cast-bronze construction and MNPT x FNPT connections. ⅜" NPT side tapping for drain connection. Suitable for industrial and commercial applications. Meet ASME Section IV, CSA, and CRN.

1CKX9

Inlet Size	Outlet Size	Overall Height	Item No.
2 in	2 in	7 ⅛ in	**1CKX9**
2 ½ in	2 ½ in	8 ¼ in	**1CKY1**
3 in	3 in	9 ⅜ in	**1CKY2**

4A822

2P074

3AZD1

Safety Relief Valves

Nonmechanical seat-to-disc alignment. FNPT connections, except 46A979 is union solder connection.

FILL AND RELIEF

- Max. water pressure: 100 psi
- Max. temp.: 212°F

Fully adjustable from 10 to 25 lb. Include strainer screen. Cast-iron body, painted bronze.

SAFETY RELIEF

- Max. temp.: 250°F

Drain seal eliminates water trapping and sediment fouling. Heat-resistant diaphragm isolates springs and working parts from water during release. Brass springs, Buna N disc.

174A Series—Meet Mil. Spec. MIL-V-136-RD, Type III, as well as ASME, NB, and HV, except 26X179 to 26X195 meet ASME Section IV only.

374A Series—Forged bronze inlet. Meet Mil. Spec. MIL-V-18634B, Type I, Class 3A, Style A, Bronze Body, as well as ASME.

740A Series—Expanded outlets. Meet Mil. Spec. MIL-V-18634B, Type I, Class 3A, Style A, Bronze Body, as well as ASME, except 26X150 to 26X157, 26X160, and 26X161 meet ASME Section IV only.

Inlet Size	Outlet Size	Overall Length	Overall Height	BtuH	Factory Set Pressure	Mfr. Model	Item No.
Fill and Relief							
½ in	½ in	6 ½ in	5 5/16 in	—	15 psi	1450F	**4A822**
½ in	½ in	7 in	5 5/16 in	—	30 psi	S1450F	**46A979**
Safety Relief Valve—174A Series							
¾ in	¾ in	2 ½ in	5 ⅛ in	650,000	30 psi	174 A-3/4"	**2P074**
¾ in	¾ in	2 ½ in	5 ⅛ in	950,000	50 psi	¾ 174A-050	**26X179**
¾ in	¾ in	2 ½ in	5 ⅛ in	1,320,000	75 psi	¾ 174A-075	**26X180**
¾ in	¾ in	2 ½ in	5 ⅛ in	1,695,000	100 psi	¾ 174A-100	**26X181**
¾ in	¾ in	2 ½ in	5 ⅛ in	2,070,000	125 psi	¾ 174A-125	**26X182**
¾ in	¾ in	2 ½ in	5 ⅛ in	2,445,000	150 psi	¾ 174A-150	**26X183**
1 in	1 in	3 in	5 ¾ in	1,470,000	50 psi	1 174A-050	**26X184**
1 in	1 in	3 in	5 ¾ in	2,055,000	75 psi	1 174A 75	**4UV68**
1 in	1 in	3 in	5 ¾ in	2,635,000	100 psi	1 174A 100	**4UV69**
1 in	1 in	3 in	5 ¾ in	3,215,000	125 psi	1 174A 125	**4UV70**
1 in	1 in	3 in	5 ¾ in	3,795,000	150 psi	1 174A-150	**26X185**
1 ¼ in	1 ¼ in	4 ¾ in	8 ⅜ in	1,682,000	30 psi	11/4 174 A	**3AZD9**
1 ¼ in	1 ¼ in	4 ¾ in	8 ⅜ in	3,429,000	75 psi	1 ¼ 174A-075	**26X187**
1 ¼ in	1 ¼ in	4 ¾ in	8 ⅜ in	4,399,000	100 psi	1 ¼ 174A-100	**26X188**
1 ¼ in	1 ¼ in	4 ¾ in	8 ⅜ in	5,370,000	125 psi	1 ¼ 174A-125	**26X189**
1 ¼ in	1 ¼ in	4 ¾ in	8 ⅜ in	6,340,000	150 psi	1 ¼ 174A-150	**26X186**
1 ½ in	1 ½ in	4 ⅞ in	9 in	7,630,000	150 psi	1 ½ 174A-150	**26X190**
2 in	2 in	6 ¼ in	11 ⅝ in	3,815,000	30 psi	2 174 A	**3AZE2**
2 in	2 in	6 ¼ in	11 ⅝ in	5,575,000	50 psi	2 174A-050	**26X191**
2 in	2 in	6 ¼ in	11 ⅝ in	7,770,000	75 psi	2 174A-075	**26X192**
2 in	2 in	6 ¼ in	11 ⅝ in	9,970,000	100 psi	2 174A-100	**26X193**
2 in	2 in	6 ¼ in	11 ⅝ in	12,170,000	125 psi	2 174A-125	**26X194**
2 in	2 in	6 ¼ in	11 ⅝ in	14,370,000	150 psi	2 174A-150	**26X195**
Safety Relief Valve—374A Series							
¾ in	¾ in	2 ½ in	3 ⅝ in	550,000	30 psi	¾ 374 A	**3AZD6**
Safety Relief Valve—740A Series							
¾ in	1 in	3 in	5 ⅝ in	925,000	30 psi	¾ 740	**3AZD1**
¾ in	1 in	3 in	5 ⅝ in	1,352,000	50 psi	¾ 740-050	**26X150**
¾ in	1 in	3 in	5 ⅝ in	1,886,000	75 psi	¾ 740-075	**26X151**
1 in	1 ¼ in	3 ½ in	7 ¼ in	1,300,000	30 psi	1 740	**3AZD2**
1 in	1 ¼ in	3 ½ in	7 ¼ in	1,899,000	50 psi	1 740-050	**26X152**
1 in	1 ¼ in	3 ½ in	7 ¼ in	2,649,000	75 psi	1 740-075	**26X153**
1 ¼ in	1 ½ in	4 ⅝ in	8 ¾ in	2,105,000	30 psi	11/4 740	**3AZD3**
1 ¼ in	1 ½ in	4 ⅝ in	8 ¾ in	3,075,000	50 psi	1 ¼ 740-050	**26X154**
1 ¼ in	1 ½ in	4 ⅝ in	8 ¾ in	4,285,000	75 psi	1 ¼ 740-075	**26X155**
1 ½ in	2 in	5 ¼ in	9 ¼ in	2,900,000	30 psi	11/2 740	**3AZD4**
1 ½ in	2 in	5 ¼ in	9 ¼ in	4,237,000	50 psi	1 ½ 740-050	**26X156**
1 ½ in	2 in	5 ¼ in	9 ¼ in	5,909,000	75 psi	1 ½ 740-075	**26X157**
2 in	2 ½ in	6 ¾ in	11 ⅝ in	5,250,000	30 psi	2 740	**3AZD5**
2 in	2 ½ in	6 ¾ in	11 ⅝ in	7,672,000	50 psi	2 740-050	**26X160**
2 in	2 ½ in	6 ¾ in	11 ⅝ in	10,700,000	75 psi	2 740-075	**26X161**

ASME Section IV Safety Relief Valves

- Pressure range: 15 to 160 psig
- Max. temp.: 250°F

Protect against excessive water pressure due to failure of controls to regulate BTU input. High BTU capacity rating. Bronze body and cover. Corrosion-resistant with silicone seat. Fabric reinforced, molded diaphragm isolates spring from water at all times. FNPT connections. Designed for boilers, heating systems, and unfired pressure vessels. Meet ASME Section IV, CSA, and CRN.

1CKV5

Inlet Size	Outlet Size	30 psi Preset Setting BtuH	30 psi Item No.	50 psi Preset Setting BtuH	50 psi Item No.	75 psi Preset Setting BtuH	75 psi Item No.	100 psi Preset Setting BtuH	100 psi Item No.	125 psi Preset Setting BtuH	125 psi Item No.	150 psi Preset Setting BtuH	150 psi Item No.
¾ in	¾ in	827,000	**1CKV5**	1,209,000	**1CKV6**	1,686,000	**1CKV7**	2,162,000	**1CKV8**	2,639,000	**1CKV9**	3,116,000	**1CKW1**
1 in	1 in	1,339,000	**1CKW2**	1,956,000	**1CKW3**	2,728,000	**1CKW4**	3,500,000	**1CKW5**	4,272,000	**1CKW6**	5,044,000	**1CKW7**
1 ¼ in	1 ¼ in	2,316,000	**6KJ72**	3,384,000	**1CKW8**	4,720,000	**6KJ73**	6,055,000	**1CKW9**	7,390,000	**6KJ74**	8,725,000	**6KJ75**
1 ½ in	1 ½ in	3,151,000	**6KJ76**	4,604,000	**1CKX1**	6,421,000	**6KJ77**	8,238,000	**1CKX2**	10,054,000	**6KJ78**	11,871,000	**6KJ79**
2 in	2 in	5,193,000	**6KJ80**	7,589,000	**1CKX3**	10,583,000	**6KJ81**	13,577,000	**1CKX4**	16,571,000	**6KJ82**	19,565,000	**6KJ83**

KUNKLE

Apollo Valves

Aquatrol

Aquatrol H7203

Apollo D4489

Kunkle D4476

ASME Section I Steam and Section VIII POP Safety Relief Valves

Valves are factory preset and sealed to prevent tampering. Not adjustable. MNPT x FNPT connections.

Note: For ASME Certified valves custom set to other pressure settings, call 1-800-GRAINGER (472-4643).

KUNKLE

- Temp. range: -60° to 406°F

Pivot between disc and spring helps correct misalignment. ASME Section I has ethylene propylene seals; ASME Section VIII has Viton® seals. For air/gas compressors, steam boilers, and generators.

APOLLO

- Temp. range: -320° to 800°F (stainless steel), -320° to 406°F (bronze)

Full-nozzle design can be used in closed systems. Metal-to-metal seating. Ideal for pressure vessels and pressure piping systems. Packed lever allows manual operation/testing as required by ASME code for steam, air, and hot water above 140°F service. Screwed cap are not for use with air, steam, or water above 140°F, where a packed lever must be used.

AQUATROL, ASME SECTION VIII

- Temp. range: -320°F to 406°F

High-capacity, multipurpose valves with a dual lapped disc for improved seating tightness. Stainless steel disc and spring.

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Kunkle with Plain Lever, ASME Section I, Steam - Bronze Body			
½ in	¾ in	25, 50, 100, 150, 200	**D4476**
¾ in	1 in	25, 50, 100, 150, 200	**D4477**
1 in	1 ¼ in	25, 50, 100, 150, 200	**D4478**
1 ¼ in	1 ½ in	25, 50, 100, 150, 200	**D4479**
1 ½ in	2 in	25, 50, 100, 150, 200	**D4481**
2 in	2 ½ in	25, 50, 100, 150, 200	**D4482**
Kunkle with Plain Lever, ASME Section VIII, Air/Gas - Bronze Body			
½ in	¾ in	25, 50, 100, 150, 200	**D4483**
¾ in	1 in	25, 50, 100, 150, 200	**D4484**
1 in	1 ¼ in	25, 50, 100, 150, 200	**D4485**
1 ¼ in	1 ½ in	25, 50, 100, 150, 200	**D4486**
1 ½ in	2 in	25, 50, 100, 150, 200	**D4487**
2 in	2 ½ in	25, 50, 100, 150, 200	**D4488**
Apollo with Packed Lever, ASME Section VIII, Air/Gas, NB, CSA CRN - Stainless Steel Body			
1 in	1 ¼ in	50, 100, 150, 200, 300	**D4508**
1 in	1 ½ in	50, 100, 150, 200, 300	**D4509**
Apollo with Screwed Cap, ASME Section VIII, Air/Gas, UV, CSA CRN - Bronze Body			
½ in	¾ in	75, 125, 150, 175, 200	**D4489**
½ in	1 in	75, 125, 150, 175, 200	**D4491**
¾ in	¾ in	75, 125, 150, 175, 200	**D4492**
¾ in	1 in	75, 125, 150, 175, 200	**D4493**
¾ in	1 ¼ in	75, 125, 150, 175, 200	**D4494**
1 in	1 ¼ in	75, 125, 150, 175, 200	**D4495**
1 ¼ in	1 ½ in	75, 125, 150, 175, 200	**D4497**
1 ¼ in	2 in	75, 125, 150, 175, 200	**D4498**
1 ½ in	2 in	75, 125, 150, 175, 200	**D4499**
1 ½ in	2 ½ in	75, 125, 150, 175, 200	**D4501**
2 in	2 ½ in	75, 125, 150, 175, 200	**D4502**
2 in	3 in	75, 125, 150, 175, 200	**D4503**
1 in	1 ½ in	125, 150, 175, 200	**D4496**
Apollo with Screwed Cap, ASME Section VIII, Air/Gas, UV, NB, CSA CRN - Stainless Steel Body			
½ in	1 in	50, 100, 150, 200, 300	**D4504**
¾ in	1 in	50, 100, 150, 200, 300	**D4505**
¾ in	1 ¼ in	50, 100, 150, 200, 300	**D4506**
1 in	1 ½ in	50, 100, 150, 200, 300	**D4507**

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Aquatrol with Closed Cap, ASME Section VIII, Liquid - Brass/Bronze			
½ in	¾ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7203**
¾ in	1 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7204**
1 in	1 ¼ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7205**
1 ¼ in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7206**
1 ½ in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7207**
2 in	2 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7208**
Aquatrol, with Test Lever, ASME Section VIII, Air/Gas - Brass/Bronze Body			
½ in	¾ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7209**
¾ in	1 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7210**
1 in	1 ¼ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7211**
1 ¼ in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7212**
1 ½ in	1 ½ in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7213**
2 in	2 in	15, 25, 30, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300	**H7214**

Series 69 Relief Valves

Aquatrol

- Max. temp.: 450°F

Field-adjustable pressure is factory set to midrange for minimal effect on flow capacity rates. Adjustment requires no disassembly; simply remove hex cap. Closed bonnet, sealed hex cap, and lapped metal seating eliminate leakage. Stainless steel springs. MNPT x FNPT connections. For pressure relief, liquid relief, continuous bypass, and overprotection for pumping stations, tanks, hydraulics, fluid, and pipelines.

D4547

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Bronze Disc and Bronze Seat			
½ in	½ in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4547**
¾ in	¾ in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4548**
1 in	1 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4549**
1 ¼ in	1 ¼ in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4551**
1 ½ in	1 ½ in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4552**
2 in	2 in	15, 30, 50, 75, 100, 125, 150, 200, 250, 300	**D4553**

Preset Setting (psi)	Pressure Range
15	0 to 15 psi
30	16 to 30 psi
50	31 to 50 psi
75	51 to 75 psi
100	76 to 100 psi
125	101 to 125 psi
150	126 to 150 psi
200	151 to 200 psi
250	201 to 250 psi
300	251 to 300 psi

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
316 Stainless Steel Disc and 316 Stainless Steel Seat			
½ in	½ in	100, 150, 200, 250, 300, 400, 600	**D4554**
¾ in	¾ in	100, 150, 200, 250, 300, 400, 600	**D4555**
1 in	1 in	100, 150, 200, 250, 300, 400, 600	**D4556**
1 ¼ in	1 ¼ in	200, 250, 300, 400, 600, 100, 150	**D4557**
1 ½ in	1 ½ in	100, 150, 200, 250, 300, 400, 600	**D4558**
2 in	2 in	100, 150, 200, 250, 300, 400, 600	**D4559**

Preset Setting (psi)	Pressure Range
100	51 to 100 psi
150	101 to 150 psi
200	151 to 200 psi
250	201 to 250 psi
300	251 to 300 psi
400	301 to 400 psi
600	401 to 600 psi

Apollo Valves

KUNKLE

WATTS REGULATOR

3EEY1

3EEY8

Low-Pressure Steam Heating Boiler Safety Relief Valves

- Max. temp.: 250°F

All have top guiding seals and positive condensate drainage for extended service life. Cast-bronze construction, except Kunkle models are cast iron. Raised EPDM discs and seats; except Kunkle valves have bronze discs and brass seats, Watts valves have PTFE discs and metal seats. All have stainless steel springs except Kunkle models are steel. MNPT x FNPT connections. 3EEY1, 3EEY6, and 3EEY7 have MNPT bottom connection and top outlet discharge.

Inlet Size	Outlet Size	Factory Set Pressure	Overall Length	Overall Height	BtuH	Brand	Item No.
ASME Section IV, Coded							
¾ in	¾ in	15 psi	2 ³⁄₁₆ in	2 ⅞ in	410,000	Apollo	**3EEY1**
¾ in	¾ in	15 psi	2 5/6 in	3 ¹¹⁄₁₆ in	475,000	Apollo	**3EEY2**
1 in	1 in	15 psi	5 ⅜ in	2 ¹⁄₁₆ in	643,000	Apollo	**3EEY3**
1 ¼ in	1 ½ in	15 psi	3 ⅜ in	4 ½ in	1,200,000	Apollo	**3EEY4**
1 ½ in	2 in	15 psi	4 in	5 ¼ in	1,900,000	Apollo	**3EEY5**
2 in	2 in	15 psi	3 in	7 ¼ in	—	Kunkle Valve	**31LH25**
2 ½ in	2 ½ in	15 psi	3 ½ in	8 ¼ in	—	Kunkle Valve	**31LH26**
3 in	3 in	15 psi	4 in	8 ¾ in	—	Kunkle Valve	**31LH27**

Inlet Size	Outlet Size	Factory Set Pressure	Overall Length	Overall Height	Brand	Item No.
Noncoded						
¾ in	¾ in	5 psi	2 ³⁄₁₆ in	2 ⅞ in	Apollo	**3EEY6**
		5 psi	2 5/6 in	3 ¹¹⁄₁₆ in	Apollo	**3EEY8**
		10 psi	2 ³⁄₁₆ in	2 ⅞ in	Apollo	**3EEY7**
		10 psi	2 5/6 in	3 ¹¹⁄₁₆ in	Apollo	**3EEY9**
		15 psi	2 ⅛ in	2 ¾ in	Watts	**36JC12**
		15 psi	2 ⅜ in	2 ¹³⁄₁₆ in	Watts	**36JC13**
1 in	1 in	5 psi	5 ⅜ in	2 ¹⁄₁₆ in	Apollo	**3EEZ1**
		10 psi	5 ⅜ in	2 ¹⁄₁₆ in	Apollo	**3EEZ2**
		15 psi	2 ⅜ in	3 ⅛ in	Watts	**36JC14**

D4511

D4517

Aquatrol

ASME Section VIII Air and Inert Gas Safety Relief Valves

- Pressure range: 0 to 250 psig
- Max. temp.: 406°F

Bronze valves have bronze discs, stainless steel springs, and precision lapped bronze seats. Single-ring blowdown assures quick, accurate reseating when opening/popping. MNPT x FNPT connections. For use in air compressors, pressurized production lines, and tanks. Series 88 models feature valve handle that allows field testing and simple cleanout. Series 89 models include sealed and closed hex cap.

Note: Valves are factory preset and sealed to prevent tampering. Not adjustable.

Inlet Size	Outlet Size	▶CHOOSE: Preset Setting (psi)	Item No.
Series 88			
½ in	¾ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4511**
¾ in	1 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4512**
1 in	1 ¼ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4513**
1 ¼ in	1 ½ in	15, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4514**
1 ½ in	2 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4515**
2 in	2 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4516**
Series 89			
½ in	¾ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4517**
¾ in	1 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4518**
1 in	1 ¼ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4519**
1 ¼ in	1 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4521**
1 ½ in	2 in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4522**
2 in	2 ½ in	15, 25, 50, 75, 100, 125, 150, 175, 200, 225, 250	**D4523**

WATTS REGULATOR · CASH ACME · Aquatrol

Calibrated Pressure and Vacuum Relief Valves

5DLZ1

Calibrated pressure and vacuum relief have a brass body and stainless steel spring. Lead-free valves are certified for use in potable water applications. Liquid relief valves are bronze and have metal-to-metal seat.

CALIBRATED PRESSURE, SERIES 530

- Pressure range: 50 to 175 psi
- Temp. range: 0° to 180°F

Protect against excessive pressure buildup in systems that contain water, oil, or air. Use for bypass thermal relief. Buna N disc. Lead-free, except 2X318. NSF Listed and FDA Approved, except 2X318 meets ANSI Z21.22.

Note: Not to be used as an operating control.

LEAD-FREE VACUUM RELIEF, SERIES N36

- Max. pressure: 15 psi steam; 200 psi water
- Temp. range: 0° to 250°F

Automatically vents closed system to atmosphere. Prevents vacuum conditions that could siphon water from the system. Silicone disc. For water heaters, supply tanks, unit heaters, and low-pressure steam systems. NSF Listed and FDA Approved.

LEAD-FREE VACUUM RELIEF VALVE, CASH ACME

- Pressure range: 0 to 200 psi
- Temp. range: 0° to 210°F

Ideal for protecting pressure vessels and hot water supply systems against negative pressure. Silicone disc. Suitable for use in many commercial and domestic systems. Meets ANSI Z21.22 and is CSA 4.4 Certified.

LIQUID RELIEF, SERIES 55

- Pressure range: 0 to 100 psi
- Temp. range: 0° to 450°F

Small valve can be adjusted in the field by removing the hex cap. Bronze disc is lapped into position to minimize leakage. For liquid relief lines, tanks, sprinkler systems, and overprotection.

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Watts Item No.	Cash Acme Item No.
Calibrated Pressure, Series 530					
¾ in	½ in	MNPT	FNPT	**2X318**	—
Lead-Free Calibrated Pressure, Series 530					
½ in	½ in	MNPT	FNPT	**5DLZ1**	—
¾ in	½ in	MNPT	FNPT	**5DLZ2**	—
Lead-Free Vacuum Relief, Series N36					
½ in	½ in	MNPT	MNPT	**5DLZ3**	—
Lead-Free Vacuum Relief Valve					
½ in	½ in	NPT	Vented	—	**49EL63**

Inlet Size	Outlet Size	Inlet Type	Outlet Type	Factory Set Pressure	Aquatrol Item No.
Liquid Relief, Series 55					
¼ in	½ in	MNPT	FNPT	25 psi	**3ERJ9**
¼ in	½ in	MNPT	FNPT	50 psi	**3ETU3**
⅜ in	½ in	MNPT	FNPT	25 psi	**3ERK1**
⅜ in	½ in	MNPT	FNPT	50 psi	**3ETU4**

BANJO · amiad WATER SYSTEMS

Polypropylene & Acetal Y Strainers

- Mesh strainer
- NPT connection

Polypropylene
3DTZ3

Acetal
2P803

Polypropylene strainers offer impact strength, surface hardness, and resistance to abrasions and corrosion. Removable end cap with EPDM gaskets. FNPT connection.

Acetal strainers resist corrosive and sensitive media, plus withstand changes in temperature and humidity. NBR gaskets.

Pipe Size	Screen Size	Maximum Pressure at 100° F	Micron Rating	H	L	Screen Material	Includes Screen	Brand	Item No.
Polypropylene Y Strainers									
½"	7 mesh	192 psi	400 micron	6"	5⅞"	304 Stainless Steel	Yes	Banjo	**3DTZ3**
½"	16 mesh	192 psi	177 micron	6"	5⅞"	304 Stainless Steel	Yes	Banjo	**3DTZ4**
½"	16 mesh	192 psi	841 micron	6"	5⅞"	304 Stainless Steel	Yes	Banjo	**3DTZ2**
¾"	16 mesh	192 psi	177 micron	6"	6"	304 Stainless Steel	Yes	Banjo	**3DTZ7**
¾"	16 mesh	192 psi	400 micron	6"	6"	304 Stainless Steel	Yes	Banjo	**3DTZ6**
¾"	16 mesh	192 psi	841 micron	6"	6"	304 Stainless Steel	Yes	Banjo	**3DTZ5**
¾"	20 mesh	150 psi @ 140°F	300 micron	5½"	6⅜"	—	No	Amiad	**2P802**
1"	16 mesh	213 psi	177 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DUA2**
1"	16 mesh	213 psi	400 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DUA1**
1"	16 mesh	213 psi	841 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DTZ9**
1¼"	7 mesh	168 psi	177 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DUA7**
1¼"	12 mesh	168 psi	400 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DUA6**
1¼"	16 mesh	168 psi	841 micron	7½"	7⅞"	304 Stainless Steel	Yes	Banjo	**3DUA5**
1½"	12 mesh	166 psi	297 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUC1**
1½"	16 mesh	166 psi	177 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUC2**
1½"	16 mesh	166 psi	595 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUA9**
2"	12 mesh	141 psi	595 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUC5**
2"	16 mesh	141 psi	177 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUC7**
2"	16 mesh	141 psi	297 micron	9⅝"	9⅞"	304 Stainless Steel	Yes	Banjo	**3DUC6**
Acetal Y Strainers									
¾"	—	150 psi @ 140°F	80 micron	7"	6⅜"	—	—	Amiad	**2P801**
1"	20 mesh	150 psi @ 140°F	—	7"	4⅞"	—	Yes	Amiad	**2P803**
1½"	12 mesh	150 psi @ 140°F	80 micron	10¾"	12"	316 Stainless Steel	Yes	Amiad	**1PHP4**

Mesh Size	Micron Rating	Compatible with Grainger Part Number	L	Dia.	Color	Item No.
Replacement Inline Strainer Screens						
20 mesh	841 micron	3DTZ2, 3DTZ5	4 in	1 in	Beige	**3DUE2**
20 mesh	841 micron	3DTZ9, 3DUA5	5 ¼ in	1 ⅝ in	Yellow	**3DUA4**
28 mesh	595 micron	3DUA9, 3DUC5	7 in	2 ⅝ in	Red	**3DUC8**
48 mesh	297 micron	3DUC1, 3DUC6	7 in	2 ⅝ in	Blue	**3DUC9**
80 mesh	177 micron	3DUC2, 3DUC7	7 in	2 ⅝ in	Yellow	**3DUE1**

Size	For Use With	Item No.
Gasket For Y Strainers		
½ to ¾ in	3DTZ2, 3DTZ3, 3DTZ4, 3DTZ5, 3DTZ6, 3DTZ7	**3DTZ8**
1 to 1 ¼ in	3DTZ9, 3DUA1, 3DUA2, 3DUA5, 3DUA6, 3DUA7	**3DUA3**
1 ½ to 2 in	LS150-50, LS150-80, LS200-30, LS200-50, LS200-80, Mfr. No. LS150-30	**3DUC3**

HAYWARD · ASAHI/AMERICA

PVC & CPVC Y Strainers

Protect piping systems from debris, dirt, and rust. Hex cap permits easy removal of strainer screen for cleaning. Screen included. Hayward strainers have a FPM seal while Asahi feature an EPDM seal.

PVC
3CEC1

CPVC
3CER2

Pipe Size	Screen Size	Maximum Pressure at 100° F	Strainer Type	H	L	Brand	Item No.
PVC Housing, PVC Screen							
NPT (National Pipe Thread) Threaded Connection							
¾"	20 mesh	125 psi	Mesh	3¾"	4 ⅛ in	Hayward	**3CEF9**
2"	0.031 in	125 psi	Perforated	7⅛"	13 in	Hayward	**3CEP2**
2"	20 mesh	125 psi	Mesh	7⅛"	7 ⅝ in	Hayward	**3CED6**
2"	20 mesh	125 psi	Mesh	7⅛"	7 ⅝ in	Hayward	**3CEH7**
3"	0.031 in	125 psi	Perforated	9⅝"	16 ¾ in	Hayward	**3CEP6**
3"	20 mesh	125 psi	Mesh	9⅝"	10 ¼ in	Hayward	**3CEE6**
NPT & Push-In Socket Multi-Connection							
½"	20 mesh	150 psi	Mesh	3⅛"	7 in	Asahi	**49FA18**
¾"	20 mesh	150 psi	Mesh	3⅞"	8 ¼ in	Asahi	**49FA19**
1"	20 mesh	150 psi	Mesh	4⅜"	9 ⅜ in	Asahi	**49FA20**
2"	20 mesh	150 psi	Mesh	6¼"	12 ½ in	Asahi	**49FA23**
Push-In Socket Connection							
¾"	7 mesh	125 psi	Mesh	3¾"	4 ⅛ in	Hayward	**3CEC1**
1"	7 mesh	125 psi	Mesh	4⅝"	5 ¼ in	Hayward	**3CEC5**
1"	20 mesh	125 psi	Mesh	4⅝"	5 ¼ in	Hayward	**3CEG6**
1¼"	20 mesh	125 psi	Mesh	5⅞"	6 ⅝ in	Hayward	**3CEC9**
1½"	16 mesh	125 psi	Mesh	5⅞"	6 ⅝ in	Hayward	**3CEH5**
1½"	20 mesh	125 psi	Mesh	5⅞"	6 ⅝ in	Hayward	**3CED4**
2"	16 mesh	125 psi	Mesh	7⅛"	7 ⅝ in	Hayward	**3CEH9**
3"	20 mesh	125 psi	Mesh	9⅝"	10 ¼ in	Hayward	**3CEE8**
4"	7 mesh	125 psi	Mesh	11¾"	12 ¾ in	Hayward	**3CEF3**

Pipe Size	Screen Size	Maximum Pressure at 100° F	Strainer Type	H	L	Brand	Item No.
CPVC Housing, CPVC Screen							
NPT (National Pipe Thread) Threaded Connection							
½"	0.031 in	130 psi	Perforated	3"	3 ⅜ in	Hayward	**3CER2**
¾"	16 mesh	130 psi	Mesh	3¾"	4 ⅛ in	Hayward	**3CER6**
1"	16 mesh	130 psi	Mesh	4⅝"	5 ¼ in	Hayward	**3CET1**
1½"	16 mesh	130 psi	Mesh	5⅞"	6 ⅝ in	Hayward	**3CET5**
Push-In Socket Connection							
½"	0.031 in	130 psi	Perforated	3"	3 ⅜ in	Hayward	**3CEP9**
¾"	0.031 in	130 psi	Perforated	3¾"	4 ⅛ in	Hayward	**3CER4**
1"	12 mesh	130 psi	Mesh	4⅝"	5 ¼ in	Hayward	**3CER8**
1½"	16 mesh	130 psi	Mesh	5⅞"	6 ⅝ in	Hayward	**3CET3**
2"	7 mesh	130 psi	Mesh	7⅛"	7 ⅝ in	Hayward	**3CET7**
3"	12 mesh	130 psi	Mesh	9⅝"	10 ¼ in	Hayward	**3CEU2**
4"	16 mesh	130 psi	Mesh	11¾"	12 ¾ in	Hayward	**3CEU6**

Bell & Gossett
KECKLEY
Mueller Steam Specialty

Cast Iron Y Strainers

Mesh Screen
4NU85

Perforated Screen
20H624

These strainers are preferred in low-pressure and low-temperature piping systems. They protect control valves, pumps, and other process equipment from contaminants in water, oil, gas, and steam applications. Screen included.

Pipe Size	Maximum Pressure at 100° F	H	L	Screen Material	Includes Screen	Brand	Item No.
Mesh Screen, Screen Size: 20 mesh							
NPT (National Pipe Thread) Threaded Connection							
¾"	400 psi @ 150°F	2⅝"	3¼"	Stainless Steel	Yes	Bell & Gossett	**4NU85**
1"	400 psi	4"	4"	304 Stainless Steel	Yes	Keckley	**45AK90**
1"	400 psi @ 150°F	2⅜"	4"	Stainless Steel	Yes	Bell & Gossett	**4NU86**
2"	400 psi	7"	7"	304 Stainless Steel	Yes	Keckley	**45AM02**
Perforated Screen, Screen Size: 0.062 in							
Flanged Connection							
3"	200 psi	8⅜"	10⅛"	304 Stainless Steel	Yes	Mueller Steam	**1RNH7**
3"	200 psi	10⅛"	10⅛"	304 Stainless Steel	Yes	Keckley	**45AM05**
4"	200 psi	12⅛"	12⅛"	304 Stainless Steel	Yes	Keckley	**45AL73**
4"	200 psi	27⅝"	12⅛"	304 Stainless Steel	Yes	Mueller Steam	**1RNY2**
4"	500 psi	27½"	15⅝"	304 Stainless Steel	Yes	Mueller Steam	**1RNJ2**
NPT (National Pipe Thread) Threaded Connection							
¾"	400 psi @ 150°F	2½"	3¾"	Stainless Steel	—	—	**20H624**
1"	400 psi @ 150°F	2⅝"	4"	Stainless Steel	—	—	**20H625**
1½"	400 psi @ 150°F	3⅞"	5¾"	Stainless Steel	—	—	**20H627**
2"	400 psi @ 150°F	4¾"	7"	Stainless Steel	—	—	**20H628**
3"	400 psi @ 150°F	6"	10"	Stainless Steel	—	—	**20H630**

KECKLEY
Mueller Steam Specialty
SSI

Perforated Screen
1RND9

Carbon Steel Y Strainers

- 304 stainless steel screen

Strainers are extremely strong to resist high pressures, high temperatures, and leaks, and withstand mechanical shocks and stress. Carbon steel strainers protect pumps, control valves, and other process equipment from contaminants in oil and petrochemical industries. Screen included.

Pipe Size	Screen Size	Maximum Pressure at 100° F	H	L	Brand	Item No.
Mesh Screen						
Flanged Connection						
3"	16 mesh	285 psi	10⅛"	10⅛"	Keckley	**45AM34**
6"	16 mesh	285 psi	18½"	18½"	Keckley	**45AL46**
Perforated Screen						
NPT (National Pipe Thread) Threaded Connection						
¾"	0.062 in	1,480 psi	6¾"	3¾"	Mueller Steam	**1RND8**
1"	0.062 in	1,480 psi	5⅜"	4⅝"	Mueller Steam	**1RND9**
1"	0.031 in	3,500 psi	4⅞"	6⅜"	SSI	**3CFR9**
2"	0.062 in	1,480 psi	10¼"	7"	Mueller Steam	**1RNE3**

Mueller Steam Specialty

Stainless Steel Y Strainers

Mesh Screen
20XM23

Perforated Screen
1RNH3

Resists corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstands pressure and high temperatures. These strainers protect processing equipment from contaminants found in water management, food, pharmaceutical, and chemical processing, and industrial applications. Screen included.

Pipe Size	Screen Size	Maximum Pressure at 100° F	H	L	Screen Material	Brand	Item No.
Mesh Screen							
NPT (National Pipe Thread) Threaded Connection							
¼"	20 mesh	800 psi	2¼"	2½"	316 Stainless Steel	—	**20XM16**
⅜"	20 mesh	800 psi	2¼"	2½"	316 Stainless Steel	—	**20XM17**
½"	20 mesh	800 psi	2¼"	2⅝"	316 Stainless Steel	—	**20XM18**
¾"	7 mesh	800 psi	2⅝"	3⅛"	316 Stainless Steel	—	**20XM19**
1"	7 mesh	800 psi	3¼"	3½"	316 Stainless Steel	—	**20XM20**
1¼"	7 mesh	800 psi	4⅛"	4⅛"	316 Stainless Steel	—	**20XM21**
1½"	7 mesh	800 psi	4½"	4¾"	316 Stainless Steel	—	**20XM22**
2"	20 mesh	800 psi	6"	5½"	316 Stainless Steel	—	**20XM23**
Perforated Screen							
Flanged Connection							
3"	0.062 in	740 psi	8⅞"	12"	304 Stainless Steel	Mueller Steam	**1RNH3**
NPT (National Pipe Thread) Threaded Connection							
1"	0.062 in	1,440 psi	5¼"	4⅝"	304 Stainless Steel	Mueller Steam	**1RNG1**

Bronze
6NPW9

Apollo Valves
ZURN WILKINS
KECKLEY

Bronze & Brass Y Strainers

Brass
20XM11

- Mesh screen
- 304 stainless steel screen
- NPT connection

Strainers protect pumps, valves, and other process equipment from contaminants found in water, oil, gas, and steam applications.

Bronze Y Strainers resist corrosion from saltwater and have higher heat and electrical conductivity than most metals.

Brass Y Strainers are an alloy of copper and zinc that withstands high temperatures and corrosion from water, heat, acids, and minerals.

Pipe Size	Screen Size	Maximum Pressure at 100 deg F	H	L	Includes Screen	Brand	Item No.
Bronze Y Strainers							
⅜"	16 mesh	400 psi @ 150°F	2"	2¾"	Yes	Apollo	**40D867**
½"	16 mesh	400 psi @ 150°F	2"	2¾"	Yes	Apollo	**40D868**
½"	20 mesh	300 psi	3"	3¼"	Yes	Zurn Wilkins	**22N582**
½"	20 mesh	400 psi	2⅛"	2¾"	—	—	**6NPW9**
¾"	16 mesh	400 psi @ 150°F	3¼"	4¼"	Yes	Apollo	**40D869**
¾"	20 mesh	300 psi	3½"	3⅞"	Yes	Zurn Wilkins	**22N583**
¾"	20 mesh	400 psi	2⅝"	3⅛"	—	—	**6NPX0**
1"	20 mesh	300 psi	4"	4½"	Yes	Zurn Wilkins	**22N584**
1¼"	16 mesh	400 psi @ 150°F	4¼"	5⅛"	Yes	Apollo	**40D871**
1½"	20 mesh	300 psi	5"	6⅜"	Yes	Zurn Wilkins	**22N586**
1½"	20 mesh	400 psi	4¼"	4⅞"	—	—	**6NPX3**
2"	16 mesh	400 psi @ 150°F	6"	6⅝"	Yes	Apollo	**40D873**
2"	20 mesh	200 psi	7½"	7½"	Yes	Keckley	**45AM06**
2"	20 mesh	300 psi	6"	7½"	Yes	Zurn Wilkins	**22N587**
2"	20 mesh	400 psi	5¼"	5⅞"	—	—	**6NPX4**
2½"	16 mesh	400 psi @ 150°F	5⅞"	8¼"	Yes	Apollo	**40D874**
3"	20 mesh	300 psi	8½"	10"	Yes	Zurn Wilkins	**22N589**
3"	20 mesh	400 psi @ 150°F	6⅞"	9"	Yes	Apollo	**40D875**
Brass Y Strainers							
¼"	20 mesh	600 psi	1⅞"	1⅞"	Yes	—	**20XM08**
½"	20 mesh	600 psi	2½"	2⅜"	Yes	—	**20XM10**
¾"	20 mesh	600 psi	2¾"	2¾"	Yes	—	**20XM11**
1"	20 mesh	600 psi	3"	3"	Yes	—	**20XM12**
1½"	20 mesh	600 psi	4⅛"	4⅛"	Yes	—	**20XM14**
2"	20 mesh	600 psi	5"	5"	Yes	—	**20XM15**

HAYWARD
amiad WATER SYSTEMS
Mueller Steam Specialty

Replacement Y Strainer Screens

Mesh Screen
3CEU3

Perforated Screen
1RNX1

Replacement screens replace existing Y strainer screens due to wear, damage, or planned maintenance.

Screen Size	Screen Material	L	Dia.	Micron Rating	Mfr. Model	Brand	Item No.
Mesh Screen							
20 mesh	CPVC	4⅝"	2½"	1,587 micron	YSX2020022	Hayward	**3CEU3**
	CPVC	6¼"	3½"	1,587 micron	YSX2030022	Hayward	**3CEU5**
	CPVC	8"	4½"	1,587 micron	YSX2040022	Hayward	**3CEU7**
	PVC	4⅝"	2½"	1,587 micron	YSX1020022	Hayward	**3CET2**
115 mesh	Stainless Steel	10"	2"	130 micron	700101-000365	Amiad	**1PHR2**
155 mesh	Polyester	5"	1¼"	100 micron	700101-000283	Amiad	**2P809**
	Polyester	5"	2"	100 micron	700101-000327	Amiad	**2P812**
	Stainless Steel	5"	1¼"	100 micron	700101-000299	Amiad	**1PHP7**
	Stainless Steel	5"	2"	100 micron	700101-000337	Amiad	**1PHP9**
200 mesh	Stainless Steel	5"	¾"	80 micron	700101-000298	Amiad	**1PHP6**
Perforated Screen							
0.033 in	304 Stainless Steel	4⅝"	—	—	1 581 cs screwed ends	Mueller Steam	**1RNU6**
0.045 in	304 Stainless Steel	10⅛"	—	—	3 758 n replacement strainer	Mueller Steam	**1RNW9**
	304 Stainless Steel	12⅛"	—	—	4 758 N replacement screen	Mueller Steam	**1RNX1**
0.0625 in	304 Stainless Steel	4⅜"	2"	2,000 micron	20H638	—	**20H638**

Strainer, Clear Bowl 6UJL4

Replacement Screen 6UJJ7

RON-VIK, INC.

Nylon In-Line Strainers & Screens

- Mesh size: 48
- Stainless steel screen
- Micron rating: 305
- NPT connection
- Max. press.: 100 psi @ 125°F

For use as drinking water prefilters and in agricultural sprayers, floor scrubbers, pressure washers, medical devices, and car wash applications. Included 304 micron stainless steel filter screens can be easily cleaned or replaced by removing the bowl; no need to remove the entire strainer from the line.

Pipe Size	H	L	Clear Bowl Gasket Material	Clear Bowl Item No.	White Bowl Gasket Material	White Bowl Item No.
Nylon Inline Strainers						
¼"	2 7/16"	3"	EPDM	**6UJH8**	EPDM	**6UJK2**
	2 7/16"	3"	Viton	**6UJK5**	—	—
⅜"	2 7/16"	3"	EPDM	**6UJJ0**	EPDM	**6UJK1**
	2 7/16"	3"	Viton	**6UJK6**	EPDM	**6UJH9**
½"	2 7/16"	3"	EPDM	**6UJJ2**	EPDM	**6UJJ1**
	5⅜"	3⅝"	Viton	**6UJL2**	Viton	**6UJK8**
¾"	5⅜"	3⅝"	Viton	**6UJL3**	Viton	**6UJK9**
1"	6 7/16"	5"	Viton	**6UJL4**	Viton	**6UJL0**
1¼"	7⅛"	5"	EPDM	**6UJJ3**	Viton	**6UJL1**
1½"	8"	5"	EPDM	**6UJJ4**	EPDM	**6UJK4**

Mesh Size	Screen Material	Compatible with Grainger Part Number	L	Dia.	Color	Item No.
Replacement Inline Strainer Screens						
35 mesh	Polypropylene	6UJK8, 6UJK9, 6UJL2, 6UJL3	3¾"	1½"	Blue, White	**6UJJ7**
48 mesh	304 Stainless Steel	6UJK8, 6UJK9, 6UJL2, 6UJL3	3¾"	1½"	Silver	**6UJJ6**
48 mesh	304 Stainless Steel	6UJJ4, 6UJK4	5½"	2¼"	Silver	**6UJK0**
48 mesh	Stainless Steel	6UJH8, 6UJJ0, 6UJJ1, 6UJJ2, 6UJK1, 6UJK2, 6UJK3, 6UJK5, 6UJK6, 6UJK7, 6UJK9	1⅜"	1"	Silver	**6UJJ5**
48 mesh	Stainless Steel	6UJL0, 6UJL4	4¼"	2¼"	Silver	**6UJJ8**
48 mesh	Stainless Steel	6UJJ3, 6UJL1	4⅝"	2¼"	Silver	**6UJJ9**

amiad WATER SYSTEMS

Polyamide/Glass Fibers Inline Strainer

Made of high-performance thermoplastic reinforced with glass fibers for increased strength and rigidity to resist corrosion and high temperatures. This strainer protects control valves, pumps, and sensitive equipment from floating debris in water or industrial fluids in high-flow industrial processes.

Pipe Size	Max. Pressure	H	Bowl Color	Item No.
2"	150 psi @ 140°F	24⅞"	Black	**1PHP5**

BANJO Liquid Handling Products

Polypropylene Inline Strainers & Screens

- Stainless steel screen

Heavy-duty, glass-reinforced polypropylene strainers resist most mineral acids, salt solutions, and solvents. All come with 316 stainless steel screens and EPDM gaskets. FKM (Viton®-type) gaskets are also available; call 1-800-GRAINGER (472-4643). Standard strainers include clean-out plug.

Strainer, Clear Bowl 3ELW8

Pipe Size	Mesh Size	Maximum Pressure at 100 deg F	H	L	Micron Rating	Item No.
Polypropylene Inline Strainers						
Black Bowl						
¾"	28 mesh	265 psi	8 31/32"	3⅞"	595 micron	**3DTW9**
	48 mesh	206 psi	4 3/16"	3 1/32"	297 micron	**3DUF1**
1"	28 mesh	307 psi	8 31/32"	3⅞"	595 micron	**3DTX3**
	48 mesh	307 psi	8 31/32"	3⅞"	297 micron	**3DTX4**
	80 mesh	307 psi	8 31/32"	3⅞"	177 micron	**3DTX5**
1½"	28 mesh	254 psi	11 7/16"	5¼"	595 micron	**3DTY3**
	48 mesh	254 psi	11 7/16"	5¼"	297 micron	**3DTY4**
	80 mesh	254 psi	11 7/16"	5¼"	177 micron	**3DTY5**
Clear Bowl						
½"	28 mesh	191 psi	4 3/16"	3 1/32"	595 micron	**3ELW6**
	48 mesh	191 psi	4 3/16"	3 1/32"	297 micron	**3ELW7**
	80 mesh	191 psi	4 3/16"	3 1/32"	177 micron	**3ELW8**
¾"	28 mesh	212 psi	4 3/16"	3 1/32"	595 micron	**3ELW9**
	48 mesh	212 psi	4 3/16"	3 1/32"	297 micron	**3ELX1**
	80 mesh	212 psi	4 3/16"	3 1/32"	177 micron	**3ELX2**

Mesh Size	Compatible with Grainger Part Number	L	Dia.	Color	Mfr. Model	Item No.
Replacement Inline Strainer Screens, 316 Stainless Steel Screen						
28 mesh	3DTW9, 3DTX3	5¾"	1⅜"	Red	LST130	**3DTY1**
	3DTX7, 3DTY3	8"	2¼"	Red	LST1530	**3DTY7**
48 mesh	3DTX1, 3DTX4	5¾"	1⅜"	Blue	LST150	**3DTY2**
	3DTX8, 3DTY4	8"	2¼"	Blue	LST1550	**3DTY8**
	3DUE6, 3DUF1	2¾"	1¼"	Blue	LST550	**3DUF4**
80 mesh	3DTX2, 3DTX5	5¾"	1⅜"	Yellow	LST180	**3DTZ1**
	3DTX9, 3DTY5	8"	2¼"	Yellow	LST1580	**3DTY9**

BANJO CORPORATION · RON-VIK, INC. · amiad WATER SYSTEMS

Replacement Inline Strainer Screens

These screens replace worn or damaged inline strainer screens.

Banjo 3DUC9

Amiad 1PHR6

Mesh Size	Screen Material*	Compatible with Grainger Part Number	L	Dia.	Color	Micron Rating	Mfr. Model	Brand	Item No.
20	316 SS	3DTZ2, 3DTZ5	4"	1"	Beige	841	LS720	Banjo	**3DUE2**
	316 SS	3DTZ9, 3DUA5	5¼"	1⅝"	Yellow	841	LS120	Banjo	**3DUA4**
28	316 SS	3DUA9, 3DUC5	7"	2⅝"	Red	595	LS230	Banjo	**3DUC8**
48	316 SS	3DUE6, 3DUF1	2¾"	1¼"	Blue	297	LST550	Banjo	**3DUF4**
	316 SS	3DUC1, 3DUC6	7"	2⅝"	Blue	297	LS250	Banjo	**3DUC9**
	SS	6UJL0, 6UJL4	4¼"	2¼"	Silver	304	5580410	Ron-Vik	**6UJJ8**
	SS	—	14⅝"	4"	Blue	300	700101-000417	Amiad	**1PHR6**
80	316 SS	3DUC2, 3DUC7	7"	2⅝"	Yellow	177	LS280	Banjo	**3DUE1**
115	SS	1PHP5	14⅝"	4"	Red	130	700101-000415	Amiad	**1PHR5**
155	SS	—	14⅝"	4"	Yellow	100	700101-000414	Amiad	**1PHR4**

*** SS = stainless steel.***

HAYWARD

PVC Basket Strainers

- Single strainer
- Hard removable cover
- PVC screen
- Max. pressure @ 100°F: 125 psi

Help remove particulates as process media flows through the perforated strainer basket, and are ideal for corrosive and sensitive media. These Simplex Basket Series strainers provide broad coverage of process chemicals in applications where the line can be shut down for basket cleaning.

NPT & Push-In Socket Multi-Connection 3CDT7

Connec. Size	11¾" H EPDM Gasket Perforated Screen Size	L	Item No.	11¾" H FPM Gasket Perforated Screen Size	L	Item No.	15½" H EPDM Gasket Perforated Screen Size	L	Item No.	15½" H FPM Gasket Perforated Screen Size	L	Item No.
NPT & Push-In Socket Multi-Connection												
½"	0.0312 in	10¾"	**15V995**	0.0312 in	10¾"	**3CDT7**	—	—	—	—	—	—
¾"	0.0312 in	11"	**15V996**	0.0312 in	11"	**3CDT8**	—	—	—	—	—	—
¾"	—	—	—	0.0312 in	27¼"	**3CDU5**	—	—	—	—	—	—
1"	0.0312 in	11⅝"	**15V997**	0.0312 in	11⅝"	**3CDT9**	—	—	—	—	—	—
1"	—	—	—	0.0312 in	27¼"	**3CDU7**	—	—	—	—	—	—
1¼"	—	—	—	—	—	—	0.1250 in	15⅝"	**15V998**	0.1250 in	15⅝"	**3CDU1**
1½"	—	—	—	—	—	—	0.1250 in	15⅞"	**15V999**	0.1250 in	15⅞"	**3CEU9**
2"	—	—	—	—	—	—	0.1250 in	16¼"	**15W001**	0.1250 in	16¼"	**3CDU2**
2"	—	—	—	—	—	—	—	—	—	0.1250 in	35¼"	**3CDU9**

Connec. Size	22¼" H EPDM Gasket Perforated Screen Size	L	Item No.	22¼" H FPM Gasket Perforated Screen Size	L	Item No.
NPT (National Pipe Thread) Threaded Connection						
2½"	0.1250 in	21 in	**15W002**	0.1250 in	21 in	**3CDU4**
3"	0.1250 in	20 ⅜ in	**15W004**	0.1250 in	20 ⅜ in	**3CDU8**
4"	0.1250 in	22 ⅛ in	**15W007**	0.1250 in	22 ⅛ in	**3CDV3**
Push-In Socket Connection						
2½"	0.1250 in	21 in	**15W003**	0.1250 in	21 in	**3CDU6**
3"	0.1250 in	20 ⅜ in	**15W005**	0.1250 in	20 ⅜ in	**3CDV1**
4"	0.1250 in	22 ⅛ in	**15W008**	0.1250 in	22 ⅛ in	**3CDV5**

3CDV2

HAYWARD

CPVC Basket Strainers, DB Series

- NPT & Push-In Socket Multi-Connection
- Dual strainer
- Hard removable cover
- CPVC screen
- Max. pressure @ 100°F: 130 psi

Nontoxic chlorinated polyvinyl chloride strainers are made from a rigid thermoplastic resistant to most acids, bases, halogens, oxidants and salts. They remove large particulates and debris from water and pipelines in hot and cold potable water applications. FPM gaskets.

Connec. Size	Perforated Screen Size	L	11¾" H Item No.	15½" H Item No.
½"	0.0312 in	27 ¼ in	3CDV2	—
¾"	0.0312 in	27 ¼ in	3CDV4	—
1"	0.0312 in	27 ¼ in	3CDV6	—
1¼"	0.1250 in	35 ¼ in	—	3CDV8
1½"	0.1250 in	35 ¼ in	—	3CDW1
2"	0.1250 in	35 ¼ in	—	3CDW3

HAYWARD

Eastar Basket Strainers, SB Series

- NPT & Push-In Socket Multi-Connection
- Single strainer
- Hard removable cover
- PVC screen
- Max. pressure @ 100°F: 65 psi

Eastar strainers resist corrosive and sensitive media, plus withstand changes in temperature and humidity. Clear material allows for easy monitoring of debris collected on screen without disconnecting the pipeline. They remove large particulates and debris from water, process liquids, and pipelines in high-flow industrial processes. EDPM gaskets.

3CDZ5

Connec. Size	Perforated Screen Size	L	11¾" H Item No.	15½" H Item No.
½"	0.0312 in	10 ¾ in	3CDZ1	—
¾"	0.0312 in	11 in	3CDZ3	—
1"	0.0312 in	11 ⅝ in	3CDZ5	—
1¼"	0.1250 in	15 ⅝ in	—	3CDZ7
1½"	0.1250 in	15 ⅞ in	—	3CDZ9
2"	0.1250 in	16 ¼ in	—	3CEA2

SSI

Carbon Steel Basket Strainers, 300B Series

- NPT connection
- Single strainer
- Bolted cover
- 304 stainless steel screen
- Max. pressure @ 100°F: 740 psi

Extremely strong steel strainers resist high pressures, high temperatures, and leaks, and withstand mechanical shocks and stress. They remove large particulates and debris from water, process liquids and pipelines in oil and petrochemical industries. 304 stainless steel gaskets.

3EJH3

Connec. Size	Perforated Screen Size	H	L	Item No.
½"	0.0312 in	6⅜"	6⅛"	3EJH3
1"	0.0312 in	8⅜"	6¾"	3EJH5
1½"	0.0312 in	12"	8⅛"	3EJH6
2"	0.0312 in	12½"	9"	3EJH4
2"	0.0468 in	12½"	9"	3EJH7

Single Body
1RNK1

Dual Body
3NXH1

Mueller Steam Specialty™ WATTS®

Cast Iron Basket Strainers

- NPT connection
- 304 stainless steel screen
- Screen perforation size: 0.0620"
- Max. pressure @ 100°F: 200 psi

These strainers handle low-pressure and low-temperature pipelines and processing systems. They remove large particulates and debris from water, process liquids, and pipelines in water, oil, gas, and steam applications. Buna-N gaskets.

Connec. Size	Pipe Size	Cover Type	H	L	Series	Brand	Item No.
Single Body							
½"	1¼"	Knob	9½"	6⅜"	125	Mueller Steam	**1RNK4**
½"	1½"	Knob	9½"	6⅜"	125	Mueller Steam	**1RNK5**
2"	2"	Knob	11½"	8¼"	125	Mueller Steam	**1RNK6**
¾"	2½"	Swing Clamp	10⅝"	7⅝"	155M	Mueller Steam	**1RNK7**
¾"	3"	Swing Clamp	11⅞"	8¾"	155M	Mueller Steam	**1RNK8**
⅜"	½"	Knob	6½"	4⅝"	125	Mueller Steam	**1RNK1**
⅜"	¾"	Knob	6½"	4⅝"	125	Mueller Steam	**1RNK2**
⅜"	1"	Knob	7½"	5⅜"	125	Mueller Steam	**1RNK3**
1"	4"	Swing Clamp	15⅜"	11¼"	155M	Mueller Steam	**1RNK9**
3⅝"	2"	Knob	11½"	9"	125F-CI	Mueller Steam	**3NXF5**
4"	2½"	Knob	12¾"	10⅜"	125F-CI	Mueller Steam	**3NXF6**
4½"	3"	Knob	15⅞"	11¾"	125F-CI	Mueller Steam	**3NXF7**
5¾"	4"	Knob	21⅝"	15"	125F-CI	Watts	**3NXF8**
Dual Body							
1¼"	1¼"	Knob	11⅛"	7½"	791SA	Mueller Steam	**3NXG8**
1¼"	1½"	Knob	11⅛"	7½"	791SA	Mueller Steam	**3NXG9**
1¼"	1½"	Knob	11⅛"	9⅜"	791FA	Watts	**3NXH3**
1¼"	2"	Knob	15⅜"	10"	791SA	Mueller Steam	**3NXH1**
1½"	2"	Knob	15⅜"	10⅝"	791FA	Mueller Steam	**3NXH4**

Single Body
1RNL1

Dual Body
3NXJ6

Mueller Steam Specialty™ SSI WATTS®

Stainless Steel Basket Strainers

- NPT connection
- 304 stainless steel screen

Strainers resist corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstand pressure and high temperatures. They remove large particulates and debris from water, process liquids, and pipelines in water management, food, pharmaceutical, and chemical processing, and industrial applications.

Connec. Size	Pipe Size	Perforated Screen Size	Maximum Pressure at 100° F	Cover Type	H	L	Series	Brand	Item No.
Single Body									
⅜"	½"	0.0620 in	285 psi	Knob	6½"	4⅝"	125-SS	Mueller Steam	**1RNL1**
⅜"	¾"	0.0620 in	285 psi	Knob	6½"	4⅝"	125-SS	Mueller Steam	**1RNL2**
⅜"	1"	0.0620 in	285 psi	Knob	7½"	5⅜"	125-SS	Mueller Steam	**1RNL3**
½"	1¼"	0.0620 in	285 psi	Knob	9½"	6⅜"	125-SS	Mueller Steam	**1RNL4**
½"	1½"	0.0620 in	285 psi	Knob	9½"	6⅜"	125-SS	Mueller Steam	**1RNL5**
¾"	2"	0.0620 in	285 psi	Knob	11½"	8¼"	125-SS	Mueller Steam	**1RNL6**
2"	¾"	0.0312 in	740 psi	Bolted	12½"	9"	300B	SSI	**3EJH9**
2½"	2½"	0.0468 in	285 psi	Bolted	9"	8¾"	150B1	SSI	**3EJK2**
3"	3"	0.0468 in	285 psi	Bolted	11¼"	9⅞"	150B1	SSI	**3EJK3**
3⅝"	2"	0.0620 in	285 psi	Knob	12"	9"	125F-SS	Mueller Steam	**3NXG2**
4"	4"	0.1250 in	285 psi	Bolted	13¼"	11½"	150B1	SSI	**3EJK4**
4½"	3"	0.0620 in	285 psi	Knob	16⅝"	11¾"	125F-SS	Mueller Steam	**3NXG4**
Dual Body									
1¼"	1½"	0.0620 in	275 psi	Knob	11⅛"	9⅜"	792FH	Watts	**3NXJ6**
1¼"	2"	0.0620 in	275 psi	Knob	15⅜"	10"	792SH	Mueller Steam	**3NXJ5**

Perforated Screen Size	L	Dia.	Micron Rating	Item No.
PVC, Max. Press. @ 100°F: 125 psi				
For Hayward Simplex/Duplex Strainers				
0.0312"	12¾"	4⅞"	1,587 micron	**38W316**
0.0625"	12¾"	4⅞"	3,175 micron	**38W317**
	16½"	6¼"	3,175 micron	**38W320**
0.1250"	7⅞"	3¼"	6,350 micron	**38W313**
	16½"	6¼"	6,350 micron	**38W321**
0.1875"	16½"	6¼"	9,525 micron	**38W322**
For Hayward Simplex Strainers				
0.0625"	7⅞"	3¼"	3,175 micron	**38W312**
For SB and DB Series Strainers				
0.0312"	7⅞"	3¼"	1,587 micron	**3CDW5**
0.1250"	12¾"	4⅞"	6,350 micron	**3CDW7**

Perforated Screen Size	L	Dia.	Micron Rating	Item No.
CPVC, Max. Press. @ 100°F: 125 psi				
For Hayward Simplex/Duplex Strainers				
0.1875"	16½"	6¼"	9,525 micron	**38W325**
CPVC, Max. Press. @ 100°F: 130 psi				
For Hayward Simplex/Duplex Strainers				
0.0312"	12¾"	4⅞"	1,587 micron	**38W318**
0.0625"	7⅞"	3¼"	3,175 micron	**38W314**
	12¾"	4⅞"	3,175 micron	**38W319**
	16½"	6¼"	3,175 micron	**38W323**
0.1250"	7⅞"	3¼"	6,350 micron	**38W315**
	16½"	6¼"	6,350 micron	**38W324**
For SB and DB Series Strainers				
0.0312"	7⅞"	3¼"	1,587 micron	**3CDW9**
0.1250"	12¾"	4⅞"	6,350 micron	**3CDX2**

Replacement Baskets

HAYWARD

PVC strainers are made from a lightweight thermoplastic resistant to ultraviolet (UV) light, acids, alkalis, oils, and many corrosive inorganic chemicals. They remove large particulates and debris from water, process liquids, and pipelines in water management, food processing, and industrial processing.

CPVC strainers are made from a rigid thermoplastic resistant to most acids, bases, halogens, oxidants, and salts. They remove large particulates and debris from water and pipelines in hot and cold potable water applications.

38W316

MILWAUKEE VALVE

FNPT 6VDT3

Brass and Lead-Free Brass Swing Check Valves

- Max. pressure: 200 psi CWP nonshock

Allow flow in 1 direction and prevent fluid backflow. Brass seals and seats, except 6VDT3 to 6VDT8 have PTFE seals. For use in plumbing and heating applications. Multipositional models meet NSF/ANSI 372.

Note: For use only with fluids compatible with the valve materials of construction; not for use with reciprocating air compressor service.

Size	L	Connec. Type	Max. Temp.	Cracking Pressure	Item No.
Approved Vendor, Horizontal					
½"	1 ³¹⁄₃₂ in	FNPT	194°F	0.725 psi	**6VDT3**
¾"	2 ¼ in	FNPT	194°F	0.725 psi	**6VDT4**
1"	2 ¹¹⁄₁₆ in	FNPT	194°F	0.725 psi	**6VDT5**
1¼"	3 in	FNPT	194°F	0.725 psi	**6VDT6**
1½"	3 ¼ in	FNPT	194°F	0.725 psi	**6VDT7**
2"	3 ¹³⁄₁₆ in	FNPT	194°F	0.725 psi	**6VDT8**

Size	L	Connec. Type	Max. Temp.	Cracking Pressure	Item No.
Approved Vendor, Vertical or Horizontal					
½"	2 ¹⁄₁₆ in	FNPT	180°F	0.75 a 1 psi	**10F322**
¾"	2 ⅜ in	FNPT	180°F	0.75 a 1 psi	**10F323**
1"	2 ²⁷⁄₃₂ in	FNPT	180°F	0.75 to 1 psi	**10F324**
1¼"	3 ⁷⁄₃₂ in	FNPT	180°F	0.75 to 1 psi	**10F325**
1½"	3 ¾ in	FNPT	180°F	0.75 to 1 psi	**10F326**
2"	4 ⁷⁄₃₂ in	FNPT	180°F	0.75 a 1 psi	**10F327**
½"	2 ⁷⁄₁₆ in	Solder	180°F	0.75 to 1 psi	**10F328**
¾"	3 ¼ in	Solder	180°F	0.75 to 1 psi	**10F329**
1"	3 ⅜ in	Solder	180°F	0.75 to 1 psi	**10F330**
1½"	4 ²³⁄₃₂ in	Solder	180°F	0.75 to 1 psi	**10F332**
2"	5 ½ in	Solder	180°F	0.75 to 1 psi	**10F333**

Size	L	Connec. Type	Max. Temp.	Cracking Pressure	Item No.
Milwaukee Valve, Lead-Free, Multi Positional					
½"	2 ¹⁷⁄₃₂ in	Solder	156°F	0.11 psi	**12K652**
¾"	3 ⅛ in	Solder	157°F	0.12 psi	**12K653**
1"	3 ²⁹⁄₃₂ in	Solder	158°F	0.13 psi	**12K654**
1¼"	4 ⁷⁄₁₆ in	Solder	159°F	0.14 psi	**12K655**
1½"	5 in	Solder	160°F	0.15 psi	**12K656**
2"	6 ⅛ in	Solder	161°F	0.16 psi	**12K657**
½"	2 ⅛ in	Threaded	150°F	0.5 psi	**12K646**
¾"	2 ⁵⁄₁₆ in	Threaded	151°F	0.6 psi	**12K647**
1"	2 ¾ in	Threaded	152°F	0.7 psi	**12K648**
1¼"	3 ⅛ in	Threaded	153°F	0.8 psi	**12K649**
1½"	3 ½ in	Threaded	154°F	0.9 psi	**12K650**
2"	4 ⁹⁄₃₂ in	Threaded	155°F	0.10 psi	**12K651**

FNPT 10F295

FNPT 1JLZ6

Bronze and Lead-Free Bronze Swing Check Valves

MILWAUKEE VALVE

- Max. temp.: 406°F, except Lead-Free models are 200°F

Allow flow in 1 direction to prevent backflow. Bronze seats. Mount vertical or horizontal. Use in plumbing and heating applications. Meet ASTM B62 and MSS-SP-80, except Lead-Free models meet NSF/ANSI 372.

Note: Not for use with reciprocating air compressor service.

Size	Approved Vendor Class 125 Bronze Disc FNPT L	Item No.	Approved Vendor Class 125 Bronze Disc Solder L	Item No.	Milwaukee Valve Class 125 Bronze Disc FNPT L	Item No.	Milwaukee Valve Class 125 Bronze Disc Solder L	Item No.
¼"	2 ¹⁄₁₆ in	**10F288**	—	—	2 ⅛ in	**1JLY6**	—	—
⅜"	2 ¹⁄₁₆ in	**10F289**	—	—	2 ⅛ in	**1JLY7**	2 ¼ in	**4EVH2**
½"	2 ⅕ in	**10F290**	—	—	2 ⁵⁄₁₆ in	**1JLY8**	2 ⁹⁄₁₆ in	**4EVH3**
¾"	2 ¹⁷⁄₃₂ in	**10F291**	—	—	2 ⅝ in	**1JLY9**	3 ⁵⁄₁₆ in	**4EVH4**
1"	3 ⁵⁄₃₂ in	**10F292**	—	—	3 ¼ in	**1JLZ1**	4 in	**4EVH5**
1¼"	3 ⅜ in	**10F293**	—	—	3 ⁹⁄₁₆ in	**1JLZ2**	4 ¼ in	**4EVH6**
1½"	3 ¹³⁄₁₆ in	**10F294**	4 ⅝ in	**10F318**	4 in	**1JLZ3**	4 ¹⁵⁄₁₆ in	**4EVH7**
2"	4 ½ in	**10F295**	—	—	4 ¾ in	**1JLZ4**	6 ⅛ in	**4EVH8**
2½"	5 ¹¹⁄₁₆ in	**10F296**	—	—	6 in	**1JLZ5**	7 ⅜ in	**4EVH9**
3"	6 ⁷⁄₁₆ in	**10F297**	7 ⅞ in	**10F321**	6 ⅞ in	**1JLZ6**	8 ½ in	**4EVJ1**

Size	Approved Vendor Class 150 PTFE Disc FNPT L	Item No.	Approved Vendor Class 150 PTFE Disc Solder L	Item No.	Milwaukee Valve Class 150 Bronze Disc FNPT L	Item No.	Milwaukee Valve Class 150 PTFE Disc FNPT L	Item No.
¼"	2 ¹⁄₁₆ in	**10F298**	—	—	2 ⅛ in	**4EVJ2**	2 ⅛ in	**1JLZ7**
⅜"	—	—	—	—	2 ⅛ in	**4EVJ3**	2 ⅛ in	**1JLZ8**
½"	2 ⅕ in	**10F301**	2 ⁷⁄₁₆ in	**10F307**	2 ⁵⁄₁₆ in	**4EVJ4**	2 ⁵⁄₁₆ in	**1JLZ9**
¾"	2 ¹⁷⁄₃₂ in	**10F302**	—	—	2 ⅝ in	**4EVJ5**	2 ⅝ in	**1JML1**
1"	3 ⁵⁄₃₂ in	**10F303**	—	—	3 ¼ in	**4EVJ6**	3 ¼ in	**1JML2**
1¼"	3 ⅜ in	**10F304**	—	—	3 ⁹⁄₁₆ in	**4EVJ7**	3 ⁹⁄₁₆ in	**1JML3**
1½"	3 ¹³⁄₁₆ in	**10F305**	4 ⅝ in	**10F311**	4 in	**4EVJ8**	4 in	**1JML4**
2"	4 ½ in	**10F306**	—	—	4 ¾ in	**4EVJ9**	4 ¾ in	**1JML5**

CLASS 125 BRONZE DISC

- Max. pressure: 125 psi SWP, 200 psi nonshock CWP, except 4EVH2 to 4EVJ1 are 125 psi SWP, 200 psi CWP
- Cracking pressure: 0.75 psi to 1 psi, except 4EVH2 to 4EVJ1 are 0.50 to 0.75 psi

CLASS 150 PTFE DISC

- Max. pressure: 150 psi SWP, 300 psi nonshock CWP; cracking pressure: 0.75 psi to 1 psi

CLASS 150 BRONZE DISC

- Max. pressure: 150 psi SWP, 300 psi CWP; cracking pressure: 0.5 psi to 0.75 psi

LEAD-FREE BRONZE, CLASS 300

- Max. pressure: 300 psi nonshock CWP; cracking pressure: 0.75 to 1 psi

Certified for use in potable water applications. Meet ANSI and NSF 372.

Size	Milwaukee Valve FNPT L	Item No.	Milwaukee Valve Sweat L	Item No.
Lead-Free Bronze, Class 300				
¼"	2 ⅛ in	**5EMX0**	—	—
⅜"	2 ⅛ in	**5EMX1**	2 ¼ in	**5EMX8**
½"	2 ⁵⁄₁₆ in	**5EMX2**	2 ⁹⁄₁₆ in	**5EMX9**
¾"	2 ⅝ in	**5EMX3**	3 ⁵⁄₁₆ in	**5EMY0**
1"	3 ¼ in	**5EMX4**	4 in	**5EMY1**
1¼"	3 ⁹⁄₁₆ in	**5EMX5**	4 ¼ in	**5EMY2**
1½"	4 in	**5EMX6**	5 in	**5EMY3**
2"	4 ¾ in	**5EMX7**	6 ⅛ in	**5EMY4**

FNPT 4EVG1

MILWAUKEE VALVE

Bronze Y-Pattern Swing Check Valves

Y-pattern design permits easy maintenance. Feature a bronze body and disc and metal-to-metal seating. Mount vertical or horizontal. For use in plumbing and heating applications. Meet MSS SP-80.

Note: Not for use with reciprocating air compressor service.

CLASS 125

- Max. pressure: 125 psi steam; 200 psi CWP
- Temp. range: -20° to 406°F

CLASS 150

- Max. pressure: 150 psi steam; 300 psi nonshock CWP
- Max. temp.: 406°F

Meet ASTM B62.

CLASS 200

- Max. pressure: 200 psi (steam); 400 psi CWP
- Max. temp.: 550°F

CLASS 300

- Max. pressure: 300 psi steam; 600 psi CWP
- Max temp.: 550°F

Size	Class 125, FNPT Cracking Press.: 0.5 psi L	Item No.	Class 150, FNPT Cracking Press.: 0.5 psi L	Item No.	Class 150, Solder Cracking Press.: 0.5 psi L	Item No.	Class 200, FNPT Cracking Press.: ½ to ¾ psi L	Item No.	Class 300, FNPT Cracking Press.: 0.75 to 1 psi L	Item No.
¼"	2¼"	**13N438**	2¼"	**13N448**	—	—	2¼"	**4EVG1**	2¼"	**1JLX5**
⅜"	2¼"	**13N439**	2¼"	**13N449**	—	—	2¼"	**4EVG2**	2¼"	**1JLX6**
½"	2⅝"	**13N440**	2⅝"	**13N450**	3"	**13N432**	2⅝"	**4EVG3**	2⅝"	**1JLX7**
¾"	3"	**13N441**	3"	**13N451**	3¼"	**13N433**	3"	**4EVG4**	3"	**1JLX8**
1"	3¹¹⁄₁₆"	**13N442**	3¹¹⁄₁₆"	**13N452**	4¼"	**13N434**	3¹¹⁄₁₆"	**4EVG5**	3¹¹⁄₁₆"	**1JLX9**
1¼"	4⅜"	**13N443**	4⅜"	**13N453**	5"	**13N435**	4⅜"	**4EVG6**	4⅜"	**1JLY1**
1½"	4⅝"	**13N444**	4⅝"	**13N454**	5½"	**13N436**	4⅝"	**4EVG7**	4⅝"	**1JLY2**
2"	5⅞"	**13N445**	5⅞"	**13N455**	6⅜"	**13N437**	5⅞"	**4EVG8**	5⅞"	**1JLY3**
2½"	7"	**13N446**	—	—	—	—	7"	**4EVG9**	7"	**1JLY4**
3"	7⅞"	**13N447**	—	—	—	—	7⅞"	**4EVH1**	7⅞"	**1JLY5**

MILWAUKEE VALVE

Newco

CAMERON

Cast-Iron
1JNL3

Flanged-End Swing Check Valves

Allow flow in only 1 direction to prevent backflow; Mount horizontally, except cast-iron models mount vertically or horizontally.

Note: Not for use for reciprocating air compressor service.

Cast-Iron—Bronze seats and disc. Meet MSS-SP-71 and ASTM B16.1.

Cast-Steel—Cobalt/chrome seats. Meet API 600 and ASME B16.34.

Carbon Steel—Feature 300 Class flange and hand-faced seal ring. Ideal for gas, oil, steam, and water applications. Meet ASME B16.10, B16.34 and API 600.

Size	L	Milwaukee Valve, Cast Iron, Max. Temp.: 350°F, Cracking Press.: 0.75 to 1 psi: Max. Steam Pressure	Max. Water Pressure	Item No.	Milwaukee Valve, Cast Steel, Max Temp.: 1000°F @ 20 psi, Cracking Press.: 0.75 to 1 psi: Max. Water Pressure	Item No.
2"	8 in	125 psi WSP	200 psi	**1JNL3**	285 psi @ 100°F	**4EVK1**
2½"	8 ½ in	125 psi WSP	200 psi	**1JNL4**	285 psi @ 100°F	**4EVK2**
3"	9 ½ in	125 psi WSP	200 psi	**1JNL5**	285 psi @ 100°F	**4EVK3**
4"	11 ½ in	125 psi WSP	200 psi	**1JNL6**	285 psi @ 100°F	**4EVK4**
5"	13 in	125 psi WSP	200 psi	**1JNL7**	—	—
6"	14 in	125 psi WSP	200 psi	**1JNL8**	285 psi @ 100°F	**4EVK5**
8"	19 ½ in	—	—	—	285 psi @ 100°F	**4EVK6**

Size	Cracking Pressure	L	Cameron Newco Carbon Steel, Max. Temp.: 750°F Item No.
2"	0.082 psi	4 ⅝ in	**33Z833**
3"	0.062 psi	5 ⅛ in	**33Z834**
4"	0.068 psi	12 in	**33Z835**
6"	0.057 psi	6 ⅜ in	**33Z836**
8"	0.061 psi	12 in	**33Z837**
10"	0.058 psi	24 ½ in	**33Z838**
12"	0.065 psi	28 in	**33Z839**

316 Stainless Steel Swing Check Valves

NPT
4VMT7

- Max. pressure: 200 psi
- Max. temp.: 353°F

Provide excellent corrosion and chemical resistance. Horizontal mounting. For use in plumbing and heating applications.

Size	Cracking Pressure	L	NPT Item No.	Socket Weld Item No.
¼"	4.27 psi	2 9/16 in	**4VMT7**	—
⅜"		2 9/16 in	**4VMT8**	**4VMU9**
½"		2 9/16 in	**4VMT9**	—
¾"		3 5/32 in	**4VMU1**	—
1"		3 ½ in	**4VMU2**	—
1¼"		4 ⅛ in	**4VMU3**	—
1½"	5.6 psi	4 23/32 in	**4VMU4**	**4VMV5**
2"		5 15/32 in	**4VMU5**	**4VMV6**
3"		7 ⅞ in	**4VMU7**	—

Piston
4DHV8

Compact Spring Check Valves

- Max. temp.: 250°F (Buna); 375°F (Viton®)
- Cracking pressure: 1 psi

Install in tight spaces to provide backflow protection for a variety of applications. First connection listed is the direction of flow. Piston design provides a positive seal at very low back pressure or slight vacuum.

Size	L	Connec. Type	Brass Body, Brass Seat: Buna Seals Item No.	Brass Body, Brass Seat: Viton Seals Item No.	Stainless Steel Body, Stainless Steel Seat: Buna Seals Item No.	Stainless Steel Body, Stainless Steel Seat: Viton Seals Item No.
Piston, Max. Pressure 500 psi						
⅛"	1 1/16"	FNPT x MNPT	**4DHR5**	**4DHR6**	**4DHT4**	**4DHT5** *
	1 1/16"	FNPT x MNPT	—	—	—	**4DHT7** *
	1 1/16"	MNPT x FNPT	**4DHR7**	**4DHR8**	**4DHT6**	—
	1 3/16"	MNPT	—	—	**4DHT2**	**4DHT3**
	1 3/16"	MNPT x MNPT	—	**4DHR4**	—	—
	1⅜"	FNPT	**4DHR9**	**4DHT1**	**4DHT8**	**4DHT9**
¼"	½"	MNPT	**4DHU1**	—	**4DHU9**	**4DHV1**
	1⅜"	FNPT x MNPT	**4DHU3**	**4DHU4**	**4DHV2**	**4DHV3**
	1½"	MNPT	—	**4DHU2**	—	—
	1⅝"	MNPT x FNPT	**4DHU5**	**4DHU6**	**4DHV4**	**4DHV5**
	1 25/32"	FNPT	**4DHU7**	**4DHU8**	**4DHV6**	**4DHV7**
⅜"	1 11/16"	FNPT x MNPT	**4DHW1**	**4DHW2**	—	—
	1 11/16"	MNPT	**4DHV8**	**4DHV9**	—	—
	1 11/16"	MNPT x FNPT	**4DHW3**	**4DHW4**	—	—
	2¼"	FNPT	**4DHW5**	**4DHW6**	**4DHW7**	**4DHW8**
½"	1⅞"	FNPT x MNPT	**4DHX2**	**4DHX3**	—	—
	1⅞"	MNPT x FNPT	**4DHX4**	**4DHX5**	—	—
	2"	MNPT	**4DHW9**	**4DHX1**	—	—
	2 17/32"	FNPT	**4DHX6**	**4DHX7**	—	—
Poppet, Max. Pressure 500 psi						
⅛"	1 3/16"	MNPT	**4DHR3**	—	—	—
Poppet, Max. Pressure 1200 psi						
¼"	½"	FNPT	—	**4DHP7**	—	—
	1½"	FNPT	**4DHP6**	—	—	—
⅜"	1¾"	FNPT	**4DHP8**	**4DHP9**	—	—
½"	1⅞"	FNPT	**4DHR1**	**4DHR2**	—	—

** Cap to Inset Center is 3 18/32" for 4DHT5, 4 20/32" for 4DHT7.*

46CE62

BONOMI
NORTH AMERICA, INC.

316 Stainless Steel Check Valves

- Max. pressure: 125 psi SWP
- Cracking pressure: 0.5 psi
- Max. temp.: 450°F

Valves allow flow in only 1 direction to prevent backflow, while the spring-actuated design allows fast seating action. FNPT connections. Dual guided stem and disc plus a soft PTFE seal for a bubble-tight shutoff. The 316 stainless steel body and spring are corrosion resistant and suitable for use with chemicals. Valves can be mounted vertically or horizontally.

Size	L	Item No.
¼"	2 5/16 in	**46CE62**
⅜"	2 5/16 in	**46CE63**
½"	2 5/16 in	**46CE64**
¾"	2 ⅞ in	**46CE65**
1"	3 ½ in	**46CE66**
1¼"	4 3/16 in	**46CE67**
1½"	4 15/16 in	**46CE68**
2"	6 in	**46CE69**

Bronze, Lead-Free Bronze, and 316 SS Cone Spring Check Valves

Apollo Valves

- Max. pressure: 125 psi steam, 400 psig CWP
- Cracking pressure: ½ psi

Straight-through design assures minimum change in velocity and protects against reverse flow. Stainless steel springs. Reinforced RPTFE ball check. 40D886 to 40D888 have EPDM seat. 40D878 to 40D885 have RPTFE seat. All models mount vertically or horizontally. FNPT connections. Lead-Free check valves are certified NSF/ANSI 372 and certified for use in potable water applications.

Bronze
1CKT5

Note: Not recommended for use with reciprocating pumps and similar applications that may induce repetitious vibrations.

Size	Bronze, Max. Temp.: 406 °F: L	Item No.	Lead-Free Bronze, Max. Temp.: 250 °F: L	Item No.	Lead-Free Bronze, Max. Temp.: 350 °F: L	Item No.	Stainless Steel, Max. Temp.: 350°F: L	Item No.
¼"	2 1/16 in	**1CKT5**	—	—	2 1/16 in	**40D878**	2 1/16 in	**1CKU6**
⅜"	2 ⅛ in	**1CKT6**	2 5/16 in	**40D886**	2 ⅛ in	**40D879**	2 ⅛ in	**1CKU7**
½"	2 5/16 in	**1CKT7**	2 5/16 in	**40D887**	2 5/16 in	**40D880**	2 5/16 in	**1CKU8**
¾"	2 ⅞ in	**1CKT8**	2 ⅞ in	**40D888**	2 ⅞ in	**40D881**	2 ⅞ in	**1CKU9**
1"	3 ½ in	**1CKT9**	—	—	3 ½ in	**40D882**	3 ½ in	**1CKV1**
1¼"	4 3/16 in	**1CKU1**	—	—	4 3/16 in	**40D883**	4 3/16 in	**1CKV2**
1½"	4 15/16 in	**1CKU2**	—	—	4 15/16 in	**40D884**	4 15/16 in	**1CKV3**
2"	6 in	**1CKU3**	—	—	6 in	**40D885**	6 in	**1CKV4**
2½"	7 in	**1CKU4**	—	—	—	—	—	—
3"	8 ⅛ in	**1CKU5**	—	—	—	—	—	—

Lead-Free Bronze, Inline-Bubble Tight
40D886

Bronze and Lead-Free Bronze Spring Check Valves

MILWAUKEE VALVE

Spring-actuated valves open and close by liquid flow and allow flow in only 1 direction to prevent backflow. Bronze body. Can be mounted vertically or horizontally.

Note: Check valves are not for use with reciprocating air compressor service.

APPROVED VENDOR

- Max. pressure: 200 psi CWP
- Max. temp.: 250°F

When mounted vertically, valves must be positioned for flow up only.

MILWAUKEE VALVE

- Max. pressure: 250 psi non-shock CWP
- Max. temp.: 353°F

Silent closing design to reduce water hammer. Certified for use in potable water applications.

Note: Find more Milwaukee Valve items at Grainger.com®; search for "Milwaukee bronze swing check valves".

6AJY1

5EMZ2

Size	Approved Vendor, NPT: Cracking Pressure	L	Item No.	Approved Vendor, Solder: Cracking Pressure	L	Item No.	Milwaukee, Lead-Free Threaded: Cracking Pressure	L	Item No.	Milwaukee, Lead-Free Solder: Cracking Pressure	L	Item No.
⅜"	—	—	—	—	—	—	0.75 to 1 psi	1 7/32 in	**5EMY5**	0.75 to 1 psi	1 7/32 in	**5EMZ2**
½"	1.7 psi	2 13/32 in	**6AJY1**	1.7 psi	2 27/32 in	**6AJY7**	0.75 to 1 psi	1 7/32 in	**5EMY6**	0.75 to 1 psi	1 7/32 in	**5EMZ3**
¾"	3.5 psi	2 ¾ in	**6AJY2**	3.5 psi	3 17/32 in	**6AJY8**	0.75 a 1 psi	½ in	**5EMY7**	0.75 to 1 psi	½ in	**5EMZ4**
1"	3.5 psi	3 ¼ in	**6AJY3**	3.5 psi	4 3/32 in	**6AJY9**	0.75 a 1 psi	1 29/32 in	**5EMY8**	0.75 to 1 psi	1 29/32 in	**5EMZ5**
1¼"	3.5 psi	3 ⅝ in	**6AJY4**	3.5 psi	4 31/32 in	**6AJZ0**	0.75 to 1 psi	2 5/32 in	**5EMY9**	0.75 to 1 psi	2 5/32 in	**5EMZ6**
1½"	4.3 psi	4 in	**6AJY5**	4.3 psi	4 15/16 in	**6AJZ1**	0.75 to 1 psi	2 19/32 in	**5EMZ0**	0.75 to 1 psi	2 19/32 in	**5EMZ7**
2"	4.3 psi	5 in	**6AJY6**	4.3 psi	6 1/16 in	**6AJZ2**	0.75 to 1 psi	3 ⅛ in	**5EMZ1**	0.75 to 1 psi	3 ⅛ in	**5EMZ8**

Carbon Steel Piston Spring-Loaded Check Valves

- Max. temp.: 850°F
- Max. pressure: 1975 psi CWP

Class 800 valves feature a bolted cap and are intended for higher-pressure applications. Carbon steel body and bonnet, with 304 stainless steel spring. Vertical or horizontal mount. Ideal for use with pumps and in metering, blending, and steam trap applications. Meet ASTM A105, NACE MR-0175, API 598, and API 602.

1PPL2

Size	Cracking Pressure	L	FNPT Item No.	Socket Item No.
½"	8 psi	3 ⅛ in	1PPL2	1PPL8
¾"	8 psi	3 19/32 in	1PPL3	1PPL9
1"	10 psi	4 ⅜ in	1PPL4	1PPN1
1¼"	24 psi	4 23/32 in	1PPL5	1PPN2
1½"	24 psi	6 in	1PPL6	1PPN3
2"	43 psi	6 25/32 in	1PPL7	1PPN4

BONOMI NORTH AMERICA, INC.

Brass and Lead-Free Brass Check Valves

45RF27

- Temp. range: 10° to 210°F, except 45RF38 to 45RF43 are 10° to 270°F
- Max pressure: 400 psi CWP, except 45RF51 to 45RF53 are 175 psi CWP
- Cracking pressure: 0.5 psi

Feature a soft seat for a bubble tight shutoff and spring loaded for fast seating action. Valves have a flow pattern to minimize head loss and an innovative disc design to help prevent side loading.

Size	Connec. Type	Brass L	Brass Item No.	Lead-Free Brass L	Lead-Free Brass Item No.
¼"	NPT	—	—	1 47/64 in	45RF27
⅜"	NPT	1 47/64 in	45RF44	1 47/64 in	45RF28
½"	NPT	2 ¼ in	45RF45	2 ¼ in	45RF29
½"	Sweat	—	—	2 39/64 in	45RF38
¾"	NPT	2 ½ in	45RF46	2 ½ in	45RF30
¾"	Sweat	—	—	3 in	45RF39
1"	NPT	2 55/64 in	45RF47	2 55/64 in	45RF31
1"	Sweat	—	—	3 ½ in	45RF40
1¼"	NPT	3 9/64 in	45RF48	3 9/64 in	45RF32
1¼"	Sweat	—	—	4 in	45RF41
1½"	NPT	3 5/16 in	45RF49	3 5/16 in	45RF33
1½"	Sweat	—	—	4 ½ in	45RF42
2"	NPT	3 ⅝ in	45RF50	3 ⅝ in	45RF34
2"	Sweat	—	—	4 13/16 in	45RF43
2½"	NPT	4 ⅜ in	45RF51	4 ⅜ in	45RF35
3"	NPT	4 ⅞ in	45RF52	4 ⅞ in	45RF36
4"	NPT	5 27/64 in	45RF53	5 27/64 in	45RF37

Glass-Filled Polypropylene 4DJC4

Plastic Check Valves

- Max. pressure: 125 psi
- Max. temp. 140°F

Feature good chemical resistance and have stainless steel ball and spring. Mount vertical or horizontal. Glass-filled polypropylene valves require 0.33 psi cracking pressure. Gray PVC, polypropylene, and white nylon require 1 psi cracking pressure.

Size	Connec. Type	L	Buna Seal Item No.	Viton Seal Item No.
Glass-Filled Polypropylene Seat				
¼"	FNPT	1 in	4DJC4	4DJC5
⅜"	FNPT	2 in	4DJC6	4DJC7
½"	FNPT	2 ½ in	4DJC8	4DJC9
¾"	FNPT	2 ½ in	4DJD1	4DJD2
Gray PVC Seat				
⅛"	FNPT	2 29/32 in	4DHZ2	4DHZ3
¼"	Barb	3 17/32 in	4DJA3	4DJA4
¼"	FNPT	2 29/32 in	4DJA1	4DJA2
¼"	FPT x MPT	2 29/32 in	4DHZ8	—
¼"	MNPT	2 29/32 in	4DHZ4	4DHZ5
¼"	MNPT x FNPT	2 29/32 in	4DHZ6	4DHZ9
¼"	Push	3 7/16 in	4DJA9	4DJC1
⅜"	Barb	3 17/32 in	4DJA5	4DJA6
⅜"	Push	3 7/16 in	4DJC2	4DJC3
½"	Barb	3 17/32 in	4DJA7	4DJA8
Polypropylene Seat				
⅛"	Barb	1 ⅜ in	4DHX8	4DHX9
3/16"	Barb	1 23/32 in	4DHY1	4DHY2
¼"	Barb	2 in	4DHY3	4DHY4
White Nylon Seat				
⅛"	Barb	1 ⅜ in	—	4DHY6
⅛"	Barb	2 in	4DHY5	—
3/16"	Barb	1 23/32 in	4DHY7	4DHY8
¼"	Barb	2 in	4DHY9	4DHZ1

PVC 5AAT4

Polypropylene 5AAX6

+GF+
HAYWARD

PVC, CPVC, and Polypropylene Ball Check Valves

- Max. pressure: 150 psi, except 33Z876 to 33Z886 are 240 psi
- Max. temp.: 140°F PVC; 190°F CPVC, except 33Z882 to 33Z886 are 210°F; 150°F polypropylene

True union design allows for easy removal. Vertical mount, except 33Z876 to 33Z886 are vertical or horizontal mount. Meet NSF 61, except 33Z876 to 33Z886.

Size	L	PVC Item No.	CPVC Item No.
Hayward, Flanged, Viton Seats and Seals			
1"	7 ¾ in	—	5AAU7
2"	11 ¼ in	—	5AAV1
3"	14 ⅜ in	5AAR3	5AAV6
4"	17 in	5AAR6	5AAV9
6"	19 3/16 in	5AAR7	5AAW0
Hayward, FNPT, EPDM Seats and Seals			
2½"	10 11/16 in	5AAT6	5AAW8
3"	10 ½ in	5AAT8	5AAX0
4"	13 in	5AAU1	5AAX3
Hayward, FNPT, Viton Seats and Seals			
¼"	3 1/16 in	5AAP1	—
⅜"	3 1/16 in	5AAP2	—
2½"	10 11/16 in	5AAR0	5AAV3
3"	10 ½ in	5AAR2	5AAV5
4"	13 in	5AAR5	5AAV8
Hayward, SKT, EPDM Seats and Seals			
2½"	10 11/16 in	5AAT5	5AAW7
3"	10 ½ in	5AAT7	5AAW9
4"	13 in	5AAU0	5AAX2

Size	L	PVC Item No.	CPVC Item No.
Hayward, SKT, Viton Seats and Seals			
2½"	10 11/16 in	5AAP9	5AAV2
3"	10 ½ in	5AAR1	5AAV4
4"	13 in	5AAR4	5AAV7
Hayward, SKT/FNPT, EPDM Seats and Seals			
½"	4 ⅝ in	5AAR8	5AAW1
¾"	4 ¾ in	5AAR9	5AAW2
1"	5 ¼ in	5AAT0	5AAW3
1¼"	6 9/32 in	5AAT1	5AAW4
1½"	6 ¾ in	5AAT3	5AAW5
2"	8 in	5AAT4	5AAW6
Hayward, SKT/FNPT, Viton Seats and Seals			
½"	4 ⅝ in	5AAP3	5AAU4
¾"	4 ¾ in	5AAP4	5AAU5
1"	5 ¼ in	5AAP5	5AAU6
1¼"	6 9/32 in	5AAP6	5AAU8
1½"	6 ¾ in	5AAP7	5AAU9
2"	8 in	5AAP8	5AAV0

Size	L	PVC Item No.	CPVC and EPDM Item No.	CPVC Item No.
Georg Fisher, Socket/Threaded, EPDM Seats and Seals				
⅜"	4 ⅛ in	33Z876	33Z882	—
½"	4 ⅛ in	33Z877	33Z883	—
¾"	4 49/64 in	33Z878	33Z884	—
1"	5 15/64 in	33Z879	33Z885	—
1½"	6 15/32 in	33Z880	—	—
2"	7 13/64 in	33Z881	33Z886	—
Hayward, Flanged, EPDM Seats and Seals				
3"	14 ⅜ in	5AAT9	—	5AAX1
4"	17 in	5AAU2	—	5AAX4
6"	19 3/16 in	5AAU3	—	5AAX5

Size	L	Polypropylene Item No.
Hayward, FNPT, Viton Seats and Seals		
½"	4 ⅝ in	5AAX6
¾"	4 ¾ in	5AAX7
1"	5 ¼ in	5AAX8
1½"	6 ¾ in	5AAX9
2"	8 in	5AAY0

SSI
Mueller Steam Specialty™

Triple-Duty 1RXE3

Heavy-Duty Check Valves

- Max. pressure: 200 psi

TRIPLE-DUTY

- Max. temp.: 212°F

With spring-loaded silent check valve, balancing valve, and shut-off valve. Center-guided Buna N seal disc ensures leak-free performance. For pump protection and HVAC chilled water installations. Meet ASME B16.1.

SILENT

- Max. temp.: 300°F

ASME Class 125 wafer-style valves prevent flow reversal; eliminate water hammer and system surges. EPDM seal and O-ring. Vertical or horizontal mount. For liquid service use in HVAC, power, process, chemical, and waste industries.

SURE CHECK

- Max. temp.: 100°F

Class 125 valves prevent surge and water hammer due to flow reversal; specially designed springs close discs before flow reversal can occur. With stainless steel springs and Buna N seal. Mount vertically or horizontally. Designed to fit ANSI flanges. Suitable for liquid and gas service applications. Meet ANSI and FM Approved.

SPRING-LOADED/DUAL-DOOR

- Max. temp.: 250°F (cast iron); 600°F (stainless steel)

Wafer-style ASME Class 125 and Class 150 flanged valves fit between flat-face and raised-face flanges; reduce water hammer, surge, and backflow in piping systems. Cast-iron models have bronze or stainless steel disc and stainless steel spring. 316 stainless steel models have stainless steel disc and spring. For use in liquid and air service in industrial process, wastewater, and pulp and paper industries. Cast-iron are FM Approved; stainless meet API 594.

Size	SSI, Triple-Duty, Cast Iron, Buna N Seat Item No.	SSI, Silent, Cast Iron, Bronze Seat Item No.	SSI, Silent, Cast Iron, Stainless Steel Seat Item No.	Mueller Sure Check, Cast Iron, Buna Seat Item No.	SSI, Spring Loaded/ Dual Door, Cast Iron, Buna N Seat Item No.	SSI, Spring Loaded/ Dual Door, Stainless Steel Seat Item No.
2"	1RXE3	1RXF4	1RXG2	1RNP1	1RXJ7	1RXK6
2½"	—	1RXF5	1RXG3	1RNP2	1RXJ8	1RXK7
3"	1RXE5	1RXF6	1RXG4	1RNP3	1RXJ9	1RXK8
4"	—	1RXF7	1RXG5	1RNP4	1RXK1	1RXK9
5"	1RXE7	—	—	1RNP5	1RXK2	—
6"	1RXE8	1RXF9	1RXG7	1RNP6	1RXK3	1RXL2
8"	1RXE9	1RXG1	1RXG8	1RNP7	1RXK4	1RXL3

Condensate Coolers, T-Line Strainers, and Float Type Air Vents

CONDENSATE COOLERS

- Max. pressure: 150 psig
- Max. temp.: 180°F

Use to mix hot water or hot condensate with a cold water supply to help reduce the temperature to an acceptable level. Can cool to a preset temperature of 135°F, or field set to a desired temperature. Suitable for most plumbing systems.

T-LINE STRAINERS

- Max. pressure: 400 psi
- Max. fluid temp.: 500°F

Feature a larger open screen area and can trap particles that harm valves and other sensitive equipment in your steam or refrigeration systems. Corrosion-resistant stainless steel.

FLOAT TYPE AIR VENTS

Free-floating air/gas vents provide positive venting of air/gases under pressure. Corrosion-resistant, stainless steel vents feature a positive-closing lever to help ensure a leaktight closing. Body and caps are welded together to form a permanently sealed, gasketless, and tamper-proof unit.

30YT83

30YT95

Cold Water Inlet	Vent Outlet	Condensate Inlet	Condensate Outlet	Item No.
Condensate Coolers				
⅜ in	¾ in	¾ in	1 ¼ in	**30YT83**
¾ in	1 ½ in	1 ½ in	1 ½ in	**30YT84**

Pipe Size	H	L	Perforated Screen Size	Item No.
T-Line Strainers				
½ in	5 ⅞ in	4 in	0.045 in	**30YT85**
¾ in	6 1⁄16 in	4 in	0.045 in	**30YT86**

Inlet	Outlet	W	H	Max. Temp.	Max. Working Pressure	Item No.
Float Type Air Vents						
Cast Iron						
½ in	¼ in	3 ¾ in	5 ½ in	200 °F	146 psi	**30YT87**
				200 °F	173 psi	**30YT88**
				200 °F	219 psi	**30YT89**
				200 °F	300 psi	**30YT90**
¾ in				200 °F	146 psi	**30YT91**
				200 °F	173 psi	**30YT92**
				200 °F	219 psi	**30YT93**
				200 °F	300 psi	**30YT94**
Stainless Steel						
½ in	½ in	2 ¾ in	7 ¼ in	500 °F	178 psi	**30YT95**
				500 °F	267 psi	**30YT96**
				500 °F	400 psi	**30YT97**
¾ in				500 °F	178 psi	**30YT98**
				500 °F	267 psi	**30YT99**
				500 °F	400 psi	**30YU01**

Steam Traps

Inverted bucket steam traps feature a free-floating valve mechanism with no fixed pivots to wear out. They are low maintenance and designed to handle dirty steam for reliable service and long life.

Float and Thermostatic steam traps are not affected by wide or sudden pressure changes, respond quickly to condensate load changes, and can function under high back pressure conditions.

Mepco—Disc steam trap allows easy maintenance, inspection, and a 1-pc. thermodynamic cartridge can be replaced without removing the trap from the line. Durable and can withstand the effects of superheat, vibration, water hammer, and corrosive environments.

Armstrong—Inverted bucket steam traps feature an innovative leverage system that multiplies the force provided by the bucket to open the valve against system pressure. Design can provide reliable operation and efficient condensate drainage on most types of steam equipment.

Stainless Steel
405Y95

Cast Iron
405Y56

Cast Iron, with Integral Strainer
36Y223

(F)NPT Connec.	NPT Inlet	NPT Outlet	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
Cast Iron								
Disc								
½"	½"	½"	600	1,200 lb/hr	800 °F	2 11⁄16 in	Mepco	**405Y80**
Float and Thermostatic								
½"	½"	½"	15	1,129 lb/hr	450 °F	5 in	Mepco	**405Y71**
	½"	½"	30	1,439 lb/hr	450 °F	5 in	Mepco	**405Y74**
¾"	¾"	11⁄32"	15	1,129 lb/hr	450 °F	5 in	Mepco	**405Y72**
	¾"	¾"	15	2,175 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y56**
	¾"	¾"	30	1,439 lb/hr	450 °F	5 in	Mepco	**405Y75**
	¾"	¾"	30	2,300 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y61**
	¾"	¾"	75	1,523 lb/hr	450 °F	5 in	Mepco	**405Y78**
	¾"	¾"	75	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y66**
	¾"	¾"	75	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y87**
1"	¾"	¾"	125	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y91**
	1"	1"	15	2,175 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y57**
	1"	1"	30	2,300 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y62**
	1"	1"	75	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y67**
	1"	1"	75	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y88**
	1"	1"	125	1,650 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y92**
1¼"	1¼"	1¼"	15	2,700 lb/hr	450 °F	5 ⅜ in	Mepco	**405Y58**
	1¼"	1¼"	30	3,000 lb/hr	450 °F	5 ½ in	Mepco	**405Y63**
	1¼"	1¼"	75	2,400 lb/hr	450 °F	5 ⅜ in	Mepco	**405Y68**
	1½"	½"	75	2,700 lb/hr	450 °F	4 ⅞ in	Mepco	**405Y89**
	1½"	½"	125	2,500 lb/hr	450 °F	5 ⅜ in	Mepco	**405Y93**
1½"	1½"	½"	75	2,700 lb/hr	450 °F	5 ⅜ in	Mepco	**405Y69**
2"	2"	2"	30	12,500 lb/hr	450 °F	7 in	Mepco	**405Y86**
	2"	2"	30	12,500 lb/hr	450 °F	8 ½ in	Mepco	**405Y65**
	2"	2"	125	4,500 lb/hr	450 °F	7 in	Mepco	**405Y94**
Inverted Bucket								
½"	½"	½"	150	572 lb/hr	450 °F	5 in	Mepco	**405Y23**
	½"	½"	250	765 lb/hr	450 °F	5 in	Mepco	**405Y28**
	½"	¾"	30	1,000 lb/hr	450 °F	5 in	Mepco	**405Y26**
¾"	¾"	½"	30	1,000 lb/hr	450 °F	5 in	Mepco	**405Y29**
	¾"	½"	80	690 lb/hr	450 °F	5 in	Mepco	**405Y24**
	¾"	½"	150	572 lb/hr	450 °F	5 in	Mepco	**405Y25**
	¾"	¾"	125	955 lb/hr	450 °F	5 in	Mepco	**405Y30**
	¾"	¾"	250	765 lb/hr	450 °F	5 in	Mepco	**405Y31**
1"	1"	1"	30	1,000 lb/hr	450 °F	5 in	Mepco	**405Y32**
	1"	1"	125	955 lb/hr	450 °F	5 in	Mepco	**405Y33**
	1"	1"	125	3,925 lb/hr	450 °F	7 ¾ in	Mepco	**405Y39**
	1"	1"	250	765 lb/hr	450 °F	5 in	Mepco	**405Y34**
	1"	1"	250	3,500 lb/hr	450 °F	7 ¾ in	Mepco	**405Y40**
1½"	1½"	1½"	250	7,000 lb/hr	450 °F	10 ¼ in	Mepco	**405Y49**
2"	2"	2"	125	10,910 lb/hr	450 °F	10 ¼ in	Mepco	**405Y51**
	2"	2"	250	7,000 lb/hr	450 °F	10 ¼ in	Mepco	**405Y52**
Stainless Steel								
Disc								
½"	½"	½"	600	1,200 lb/hr	800 °F	2 11⁄16 in	Mepco	**405Y95**
	½"	½"	600	1,200 lb/hr	800 °F	2 11⁄16 in	Mepco	**405Y98**
	½"	½"	600	2,820 lb/hr	800 °F	2 11⁄16 in	Mepco	**405Y83**
¾"	¾"	¾"	600	1,830 lb/hr	800 °F	2 13⁄16 in	Mepco	**405Y81**
	¾"	¾"	600	1,830 lb/hr	800 °F	2 13⁄16 in	Mepco	**405Y84**
	¾"	¾"	600	1,830 lb/hr	800 °F	2 13⁄16 in	Mepco	**405Y96**
	¾"	¾"	600	1,830 lb/hr	800 °F	2 13⁄16 in	Mepco	**405Y99**
1"	1"	1"	600	2,820 lb/hr	800 °F	3 5⁄16 in	Mepco	**405Y82**
	1"	1"	600	2,820 lb/hr	800 °F	3 5⁄16 in	Mepco	**405Y85**
	1"	1"	600	2,820 lb/hr	800 °F	3 5⁄16 in	Mepco	**405Y97**
	1"	1"	600	2,820 lb/hr	800 °F	3 5⁄16 in	Mepco	**405Z01**

(F)NPT Connec.	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
Cast Iron						
Inverted Bucket						
½"	30	1,000 lb/hr	400 °F	5"	Armstrong	**36Y192**
	80	700 lb/hr	450 °F	5"	Armstrong	**36Y188**
	125	950 lb/hr	400 °F	5"	Armstrong	**36Y193**
	150	600 lb/hr	400 °F	5"	Armstrong	**36Y189**
	250	750 lb/hr	400 °F	5"	Armstrong	**36Y194**
¾"	30	1,000 lb/hr	450 °F	5"	Armstrong	**36Y195**
	30	4,000 lb/hr	400 °F	7¾"	Armstrong	**36Y202**
	80	700 lb/hr	400 °F	5"	Armstrong	**36Y190**
	125	950 lb/hr	400 °F	5"	Armstrong	**36Y196**
	125	4,000 lb/hr	400 °F	7¾"	Armstrong	**36Y203**
	150	600 lb/hr	400 °F	5"	Armstrong	**36Y191**
	250	750 lb/hr	400 °F	5"	Armstrong	**36Y197**
	250	3,800 lb/hr	400 °F	7¾"	Armstrong	**36Y204**
1"	30	1,000 lb/hr	400 °F	5"	Armstrong	**36Y198**
	30	4,000 lb/hr	400 °F	7¾"	Armstrong	**36Y205**
	125	950 lb/hr	400 °F	5"	Armstrong	**36Y199**
	125	4,000 lb/hr	450 °F	7¾"	Armstrong	**36Y206**
	130	11,000 lb/hr	400 °F	10¼"	Armstrong	**36Y212**
	250	750 lb/hr	400 °F	5"	Armstrong	**36Y201**
	250	3,800 lb/hr	400 °F	7¾"	Armstrong	**36Y207**
	250	7,000 lb/hr	400 °F	10¼"	Armstrong	**36Y213**
1¼"	125	6,900 lb/hr	450 °F	8"	Armstrong	**36Y209**
	250	5,900 lb/hr	400 °F	8"	Armstrong	**36Y210**
1½"	30	9,900 lb/hr	400 °F	10¼"	Armstrong	**36Y214**
	130	11,000 lb/hr	450 °F	10¼"	Armstrong	**36Y215**
	250	7,000 lb/hr	450 °F	10¼"	Armstrong	**36Y216**
2"	30	9,900 lb/hr	400 °F	10¼"	Armstrong	**36Y217**
	130	11,000 lb/hr	400 °F	10¼"	Armstrong	**36Y218**
	250	7,000 lb/hr	400 °F	10¼"	Armstrong	**36Y219**
2½"	250	19,000 lb/hr	400 °F	13"	Armstrong	**36Y222**
Cast Iron, with Integral Strainer						
Inverted Bucket						
½"	30	1,000 lb/hr	450 °F	5"	Armstrong	**36Y223**
	125	950 lb/hr	450 °F	5"	Armstrong	**36Y224**
	125	2,000 lb/hr	450 °F	3⅞"	Armstrong	**36Y233**
	250	750 lb/hr	450 °F	5"	Armstrong	**36Y225**
	250	1,300 lb/hr	450 °F	3⅞"	Armstrong	**36Y234**
¾"	30	1,000 lb/hr	450 °F	5"	Armstrong	**36Y226**
	30	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y235**
	125	950 lb/hr	450 °F	5"	Armstrong	**36Y227**
	125	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y236**
	250	750 lb/hr	450 °F	5"	Armstrong	**36Y228**
	250	3,500 lb/hr	450 °F	7⅞"	Armstrong	**36Y237**
1"	30	1,000 lb/hr	450 °F	5"	Armstrong	**36Y229**
	30	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y238**
	125	950 lb/hr	450 °F	5"	Armstrong	**36Y230**
	125	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y239**
	250	750 lb/hr	450 °F	5"	Armstrong	**36Y231**
	250	3,500 lb/hr	450 °F	7⅞"	Armstrong	**36Y240**
1¼"	30	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y241**
	125	4,000 lb/hr	450 °F	7⅞"	Armstrong	**36Y242**
	250	3,500 lb/hr	450 °F	7⅞"	Armstrong	**36Y243**

Cast-Iron and Ductile Iron Float and Thermostatic Steam Traps

Armstrong

- Cast-iron body, except 36Y278 to 36Y281 are ductile iron

Feature stainless steel internals for long life in applications where continuous drainage with high air-venting capacity is required. Horizontal Same Side models feature inlet connections on both sides of the body to provide flexibility in piping.

Horizontal In-Line
36Y266

Note: Steam traps are not for use in systems where excessive hydraulic or thermal shock are present.

(F)NPT Connections	Max. Operating (psi)	Condensate Cap. lb./hr.	End to End Length	Max. Temp.	Item No.
Same Side					
½"	15 psi	1,200 lb/hr	3 ⅞ in	353° @ 125 psig	**36Y244**
¾"	15 psi	1,200 lb/hr	3 ⅞ in	353° @ 125 psig	**36Y245**
	30 psi	1,400 lb/hr	3 ⅞ in	353° @ 125 psig	**36Y251**
	75 psi	1,800 lb/hr	5 ⅛ in	377° @ 175 psig	**36Y256**
	175 psi	1,150 lb/hr	5 ⅛ in	377° @ 175 psig	**36Y261**
1"	15 psi	2,100 lb/hr	4 ⅞ in	377° @ 175 psig	**36Y246**
	30 psi	2,300 lb/hr	4 ⅞ in	377° @ 175 psig	**36Y252**
	75 psi	1,800 lb/hr	5 ⅛ in	377° @ 175 psig	**36Y257**
	175 psi	1,150 lb/hr	5 ⅛ in	377° @ 175 psig	**36Y262**
1¼"	15 psi	2,500 lb/hr	4 ⅝ in	377° @ 175 psig	**36Y247**
	30 psi	2,800 lb/hr	4 ⅝ in	377° @ 175 psig	**36Y253**
	75 psi	2,500 lb/hr	5 13/16 in	377° @ 175 psig	**36Y258**
	175 psi	2,000 lb/hr	5 13/16 in	377° @ 175 psig	**36Y263**
1½"	15 psi	3,100 lb/hr	5 ¾ in	377° @ 175 psig	**36Y248**
	30 psi	4,000 lb/hr	5 ¾ in	377° @ 175 psig	**36Y254**
	75 psi	3,100 lb/hr	7 7/16 in	377° @ 175 psig	**36Y259**
	175 psi	3,100 lb/hr	7 7/16 in	377° @ 175 psig	**36Y264**
2"	15 psi	9,000 lb/hr	7 ⅝ in	377° @ 175 psig	**36Y249**
	15 psi	34,000 lb/hr	6 ⅝ in	650° @ 300 psig	**36Y278**
	30 psi	8,500 lb/hr	7 ⅝ in	377° @ 175 psig	**36Y255**
	125 psi	21,000 lb/hr	6 ⅝ in	650° @ 300 psig	**36Y280**
	175 psi	7,100 lb/hr	9 ¾ in	377° @ 175 psig	**36Y265**
	300 psi	13,000 lb/hr	6 ⅝ in	650° @ 300 psig	**36Y281**
In-Line					
½"	15 psi	1,200 lb/hr	5 ½ in	353° @ 125 psig	**36Y266**
	30 psi	2,100 lb/hr	5 ½ in	353° @ 125 psig	**36Y269**
	75 psi	1,800 lb/hr	5 ½ in	377° @ 175 psig	**36Y272**
	175 psi	1,100 lb/hr	5 ½ in	377° @ 175 psig	**36Y275**
¾"	15 psi	1,200 lb/hr	5 ½ in	353° @ 125 psig	**36Y267**
	30 psi	1,200 lb/hr	5 ½ in	353° @ 125 psig	**36Y270**
	75 psi	1,800 lb/hr	5 ½ in	377° @ 175 psig	**36Y273**
	175 psi	1,100 lb/hr	5 ½ in	377° @ 175 psig	**36Y276**
1"	15 psi	2,100 lb/hr	5 ½ in	353° @ 125 psig or 377° @ 175 psig	**36Y268**
	30 psi	2,300 lb/hr	5 ½ in	353° @ 125 psig or 377° @ 175 psig	**36Y271**
	75 psi	1,800 lb/hr	5 ½ in	377° @ 175 psig	**36Y274**
	175 psi	1,100 lb/hr	5 ½ in	377° @ 175 psig	**36Y277**

WATTS REGULATOR

Carbonated Beverage Backflow Preventers

316 stainless steel backflow preventers feature dual check design and can install flow-up, flow-down, or horizontally. For use on post-mix carbonated beverage equipment and dispensing equipment for tea and coffee. SAE male flare connection. Certified to ANSI/NSF 18, Manual Food and Beverage Dispensing Equipment; all rubber compounds comply with FDA food additive regulations.

5AJ86

5AJ88

5AJ86

Dual check valve meets ASSE 1032.

5AJ88

Atmospheric port provides visual indication of the failure of the second check. Wye pattern strainer model for water supply installations. Dual check valve with atmospheric vent meets ASSE 1022.

Size	L	Max. Pressure	Max. Temp.	Item No.
⅜"	3 in	150 psi	110 °F	**5AJ86**
⅜"	4 ½ in	150 psi	130 °F	**5AJ88**

Armstrong

MEPCO
MARSHALL ENGINEERED PRODUCTS CO.

36Y304

405Z02

Thermostatic Steam Traps

Design allows trap to be inspected and serviced without breaking pipe connections. Armstrong models have one moving part, while Mepco models feature an innovative floating valve design and rounded seat to help prevent corrosive elements and dirt from affecting trap operation. All models respond quickly to changing pressure and condensate loads and are suitable for use in many steam heating systems and steam process equipment.

(F)NPT Connections	Pipe Config.	Max. Operating (psi)	Condensate Cap. lb./hr.	Max. Temp.	End to End Length	Brand	Item No.
304L Stainless Steel							
½ in	Horizontal or Vertical	400	1,300 lb/hr	650 °F	—	Armstrong	**36Y304**
¾ in	Horizontal or Vertical	400	1,300 lb/hr	650 °F	—	Armstrong	**36Y305**
Brass							
½ in	Angle	25	1,270 lb/hr	345 °F	3¼"	Mepco	**405Z02**
	Straight	25	1,270 lb/hr	345 °F	4⅞"	Mepco	**405Z03**
½ in x ¾ in	Vertical	25	1,270 lb/hr	345 °F	5⅛"	Mepco	**405Z04**
½ in	Angle	125	1,200 lb/hr	345 °F	3⅛"	Mepco	**405Z07**
¾ in	Angle	25	2,450 lb/hr	345 °F	3¼"	Mepco	**405Z05**
	Straight	25	2,450 lb/hr	345 °F	5⅛"	Mepco	**405Z06**
	Angle	125	1,800 lb/hr	345 °F	3¼"	Mepco	**405Z08**
1 in	Angle	125	2,500 lb/hr	345 °F	3½"	Mepco	**405Z09**
Bronze							
½ in	In the Side, Out the Bottom	50	1,700 lb/hr	400 °F	2 9/16"	Armstrong	**36Y299**
	In the Side Out the Side, Straight Pattern	50	1,700 lb/hr	300 °F	4"	Armstrong	**36Y302**
¾ in	In the Side Out the Bottom	50	1,700 lb/hr	400 °F	2⅞"	Armstrong	**36Y301**
	In The Side Out The Side, Straight Pattern	50	1,700 lb/hr	300 °F	4½"	Armstrong	**36Y303**
Cast Iron							
¾ in	(2) Pipe, (1) Inlet and (1) Outlet	15	2,175 lb/hr	450 °F	4⅞"	Mepco	**405Z10**
1 in	(2) Pipe, (1) Inlet and (1) Outlet	15	2,175 lb/hr	450 °F	4⅞"	Mepco	**405Z11**
1 ¼ in	(2) Pipe, (1) Inlet and (1) Outlet	15	2,700 lb/hr	450 °F	5⅜"	Mepco	**405Z12**
1 ½ in	(2) Pipe, (1) Inlet and (1) Outlet	15	4,075 lb/hr	450 °F	5⅜"	Mepco	**405Z13**
2 in	(2) Pipe, (1) Inlet and (1) Outlet	15	11,750 lb/hr	450 °F	7"	Mepco	**405Z14**

WATTS REGULATOR · Apollo Valves · ZURN WILKINS

Hose and Laboratory Connection Vacuum Breakers

6KK08

Prevent backsiphonage of contaminated water into water supply. No need for plumbing changes. Suitable for hot or cold water service. Single-check design. 5DMJ5 is certified for use in potable water applications. 6KK09 and 6KK08 have 2 independently acting soft-seated checks. 6KK09, 6KK08, and 6AJZ3 come with a break-off attachment screw for permanent installation. All models meet ASSE; except 5DMJ5 meets CSA only; 6AJZ3, 6A766, 6LL80, and 6LL79 also meet ANSI; 6KK08, 6KK09, 6A766, 22N566 and 22N567 also meet IAMPO; 6A766, 6LL80, and 6LL79 also meet UPC; 6KK09, 6KK08, 6A766, 6LL80, and 6LL79 also meet CSA.

6A766

Size	Material of Construc.	Max. Pressure	Connec. Type	Temp. Range	Brand	Mfr. Model	Item No.
Dual Check Vacuum Breaker							
⅜ in	Chrome	125 psi	FIP	33° to 140°F	Watts	⅜ LF N9C - ⅜"	**5DMJ5**
Lab Faucet Vacuum Breaker							
⅜ in	Chrome-Plated Brass	150 psi	FNPT	180 °F	Apollo	3850202	**6KK09**
	Chrome-Plated Brass	150 psi	MNPSM	180 °F	Apollo	3850201	**6KK08**
Vacuum Breaker							
¾ in	Acetal, Brass, Stainless Steel	125 psi	GHT	180 °F	Zurn Wilkins	BFP-8F	**22N567**
	Brass	125 psi	FIP x GHT	180 °F	—	108-904	**6AJZ3**
¾"	Brass	—	FNPT	—	Apollo	38LF314AS	**52DD48**
¾ in	Brass	125 psi	GHT	180 °F	Watts	8B	**6A766**
	Brass	125 psi	GHT	180 °F	Watts	8BI	**6LL80**
	Brass, Stainless Steel	125 psi	GHT	180 °F	Zurn Wilkins	BFP-9	**22N566**
	Chrome-Plated Brass	125 psi	GHT	180 °F	Watts	8BC	**6LL79**

6KK03

Atmospheric-Type Vacuum Breakers

- Max. pressure: 125 psi

Prevent back-siphoning of polluted water into potable water systems and are corrosion-resistant forged-brass construction, except Nicholson® models help protect plant and process equipment against vacuum conditions typically associated with cooling applications. Nicholson models also promote better heat transfer efficiency, allow condensate to be drained from steam systems, and are for use in heat exchangers, jacketed kettles, steam mains, and other process equipment.

Note: Only install in areas where water spillage will not cause damage. Not for continuous-pressure applications.

Apollo, Lead-Free Bronze and Lead-Free Bronze Rough Chrome—40D832 to 40D836 are certified for use in potable water applications. All models meet ASSE 1001 and NSF/ANSI.

Apollo, Rough Brass and Rough Brass Polished Chrome—Meet ASSE 1001.

Watts, Lead-Free Brass—Certified for use in potable water applications. Meet ASSE 1001 and ANSI A112.1.1, CSA B64 Certified; except 46A958 and 46A957 meet ASSE 1001 and are CSA B64.1.1 Certified only.

Zurn Wilkins, Cast Brass and Cast Bronze—Certified for use in potable water applications. Meet ASSE 1001 standards and CSA Certified; IAPMO Listed.

Size	Apollo Lead-Free Bronze; Max. Temp.: 212 °F FNPT Item No.	Apollo Lead-Free Bronze-Rough Chrome; Max. Temp.: 212 °F FNPT Item No.	Apollo Rough Brass; Max. Temp.: 212 °F FNPT Item No.	Apollo Rough Brass-Polished Chrome; Max. Temp.: 212 °F FNPT Item No.	Watts Lead-Free Brass; Max. Temp.: 180 °F FNPT Item No.	Watts Lead-Free Brass; Max. Temp.: 33° to 180°F NPT Item No.	Zurn Wilkins Cast Brass, Cast Bronze, Polypropylene, Silicone, Ultem; Max. Temp.: 180 °F FNPT x FNPT Item No.
¼ in	40D832	31EE40	6KJ98	6KJ99	46A958	29YL78 *	—
	—	—	—	—	—	29YL73	—
⅜ in	40D833	31EE41	—	6KK02	46A957	29YL79 *	—
½ in	40D834	31EE43	6KK03	6KK04	—	—	22N560
¾ in	40D835	31EE45	6KK05	6KK06	—	29YL81 *	22N561
1 in	40D836	—	—	—	—	29YL77	22N562
1 ¼ in	—	—	—	—	—	—	22N563
1 ½ in	—	—	—	—	—	—	22N564
2 in	—	—	—	—	—	—	22N565

** Polished chrome.*

6AJV6

Backflow Test Kits

- Accuracy: ±2 psid (descending), except 5AJ67 is accurate ±1% of full scale

For testing reduced pressure principle, pressure vacuum breaker and double check valve backflow prevention assemblies. 6AJV6, 34CU34 and 34CU33 have soft-seated brass needle valves with replaceable valve seats and cleanable 90-micron filters that reduce plugging with scale, sand, and other contaminants. Capable of performing all known test procedures including those recommended by ASSE, AWWA, FCCC, HR-USC, and NEWWA. 34CU34 allows you to perform tests with the gauge mounted in carrying case, or gauge can be easily removed for added portability. 34CU34 and 34CU33 include 3 sets of brass fittings for hookup to all standard size test cocks. 20RJ62 fits ¼" to 2" backflow preventers and includes three ¼" plastic quick test fittings and O-rings.

Item	For Use With	Includes	Brand	Mfr. Model	Item No.
Backflow Preventer Test Kit, 3 Valve	Reduced Pressure Principal Backflow Preventers and Double Check Valves	(3) 3 ft Hoses, (3)Test Valves, (9) Hose Adapters, 16 in Security Strap, Analog Test Gauge, Carrying Case	Watts	TK-9A	**1KYB6**
Backflow Preventer Test Kit, 5 Valve	Anti-spill Vacuum Breakers, Pressure Vacuum Breakers, Reduced Pressure Zone Assemblies and Double Check Valves	(12) Hose Adapters, (3) 6 ft Hoses, (3) Test Valves, 16 in Security Strap, Analog Test Gauge, and Carrying Case	Watts	TK-99E	**5AJ67**
	Grainger Items 34CU36, 34CU37, 34CU38, 34CU39, 34CU41	(3) 5ft Hoses, Analog test Gauge, Carrying Case, Certificate of Calibration., Clear 4 ft Bleed Tube, NPT Adapter Fittings (Set of 12), Pressure Gauge	Midwest	845-5	**6AJV6**
		(3) 5ft Hoses, Analog test Gauge, Carrying Case, Certificate of Calibration., Clear 4 ft Bleed Tube, NPT Adapter Fittings (Set of 12), Pressure Gauge	Midwest	835	**34CU34**
	Grainger Items 34CU36, 34CU37, 34CU38, 34CU40, 34CU41	(3) 5ft Hoses, Analog test Gauge, Carrying Case, Certificate of Calibration., Clear 4 ft Bleed Tube, NPT Adapter Fittings (Set of 12), Pressure Gauge	Midwest	830	**34CU33**
Backflow Quick Connect Adapter	Grainger Items 34CU33, 34CU34, 34CU35, 6AJV6	(3) ½ in NPT Quick Connect ADPT x ¼ in Flare and 3 Spare O-Rings	Midwest	110703	**34CU37**
		(3) ¾ in NPT Quick Connect ADPT x ¼ in Flare and 3 Spare O-Rings	Midwest	110704	**34CU38**
Backflow Test Kit Replacement Hose	Grainger Item 34CU33	(3) Replacement Hoses	Midwest	110646	**34CU40**
	Grainger Items, 34CU34, 34CU35, 6AJV6	(3) Replacement Hoses	Midwest	110645	**34CU39**
Bleed-Off Valve Assembly	Grainger Items 34CU33, 34CU34, 34CU35, 6AJV6	—	Midwest	830-0001	**6AJV7**
In-Line Replacement Filters for Backflow Test Kit Hose		(6) Replacement In-Line Hose Filters	Midwest	98008	**34CU41**
Plastic Quick Test Fittings	1-375, 1-375XL, 1-975XL, 1-975XL2, 112-975XL, 112-975XL2, 114-375XL, 114-975XL, 12-375XL, 12-975XL, 12-975XL2, 14-975XL2, 2-975XL, 2-975XL2, 34-375, 34-375XL, 34-975XL, 34-975XL2, 38-975XL, 14-975XL	(3) Fittings	Zurn Wilkins	RK14-QTP	**20RJ62**
Test Cock Adapter Kit	Grainger Item 34CU33, 34CU34, 34CU35, 6AJV6	(3) ¼ in NPT Quick Connect ADPT x ¼ in Flare and 3 Spare O-Rings	Midwest	110631	**6AJW0**
		All Come with 3 Spare O-Rings, Contains Three ¼ in NPT Quick Connect ADPT x ¼ in Flare, Three ½ in NPT Quick Connect x ¼ in FNPT ADPT, Three ¾ in NPT Quick Connect x ¼ in FNPT ADPT	Midwest	110617	**6AJV9**
		Contains Three ¼ in NPT 90° Swivel Quick Connect ADPT x ¼ in Flare, Three ½ in NPT Quick Connect x ¼ in FNPT ADPT, Three ¾ in NPT Quick Connect x ¼ in FNPT ADPT,and 3 Spare O-Rings	Midwest	110706	**6AJW2**
		Contains Three ¼ in NPT Quick Connect ADPT x ¼ in Flare 90 Degree Swivel Fitting and Three Spare O-Rings	Midwest	110705	**6AJW1**
Verticle Tube kit		One 15 x ½ in Diameter Tube/Test Cock Adapter Assembly and One 15 x ½ in Diameter Extension Tube	Midwest	830-0003	**6AJV8**

WATTS REGULATOR ZURN WILKINS

Reduced-Pressure Zone (RPZ) Backflow Preventers

- Max. pressure: 175 psi
- NPT connections, except 5DMJ0 to 5DMJ4 have IPS, 15W053 to 15W055 have flanged end
- Find information on kit contents at Grainger.com

Help prevent the reverse flow of polluted water into the potable water supply due to backsiphonage and backpressure.

Watts 009 Series—6A771 is the M1 version of the 009 Series. 429J28 to 429J30 meet ASSE, CSA, and are 3-UL Classified. 5DMJ0 to 5DMJ4 meet ASSE, AWWA, CSA, IAPMO Foundation for Cross-Connection Control and Hydraulic Research at USC. 6A770 and 6A771 meet ASSE 1013, AWWA C-511-92, CSA B64.4, and IAPMO. 26X125 to 26X140 meet ASSE, CSA, UPC, and USC.

Zurn Wilkins 375XL Series—Models have a pressure differential relief valve located between 2 independently operated spring-loaded centers. Meet ASSE 1013, IAPMO, CSA, and USC. NSF-61 Listed.

Watts 909 Series—2½" to 4" models have flanged end connections. Meet ASSE 1013, AWWA C-511-92, CSA B64.4, except 26X122 also meets UPC and USC.

Zurn Wilkins 975XL2 Series—Top entry allows easy access to internal components. Meet ASSE 1013, CSA Certified, IAPMO Listed, and NSF-61 Listed Annex G.

Zurn Wilkins 975XL Series—Provide protection where a potential health hazard exists. Meet ASSE 1013, IAPMO, CSA, FM, and USC.

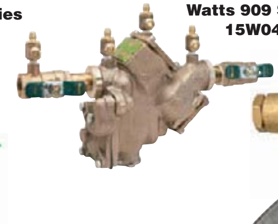
Air Gaps—Provide an unobstructed separation between potable water supply discharge and receiving vessel opening.

Repair Kits—Include disc assemblies, O-rings, and diaphragm.

Test Cocks—Use to facilitate backflow assembly testing or as isolation valves for gauges or small equipment lines.

Watts 009 Series 5DMJ0

Zurn Wilkins 375XL Series 45K857


Watts 909 Series 15W048

Zurn Wilkins 975XL Series 6AVX6

Watts Repair Kit for 909 Series 6AUU4

Size	Body Material	W	L	Max. Temp.	Backflow Preventers Item No.
Watts 009 Series					
½ in	Copper Silicon Alloy	7 in	11 ½ in	180 °F	**429J28** *
½ in	Lead Free Brass	4 ⅝ in	10 in		**5DMJ0**
¾ in	Bronze	5 ⅞ in	14 ¼ in		**6A770**
¾ in	Copper Silicon Alloy	7 ¼ in	11 21⁄32 in		**429J29** *
¾ in	Lead Free Brass	5 in	10 ¾ in		**5DMJ1**
¾ in	Lead Free	3 7⁄16 in	10 ¾ in		**26X126**
¾ in	Bronze	3 7⁄16 in	13 15⁄16 in		**26X139**
1 in	Bronze	6 ¼ in	20 ½ in		**6A771**
1 in	Copper Silicon Alloy	10 in	16 13⁄16 in		**429J30** *
1 in	Lead Free Brass	5 ½ in	16 ¾ in		**5DMJ2**
1 ½ in	Lead Free Brass	6 in	17 ⅞ in		**5DMJ3**
1 in	Lead Free Bronze	3 7⁄16 in	14 ½ in		**26X125**
1 in	Lead Free Bronze	3 7⁄16 in	18 ¼ in		**26X140**
2 in	Lead Free Bronze	7 ¾ in	21 ⅜ in		**5DMJ4**
Zurn Wilkins 375XL Series					
½ in	Low Lead Cast Bronze	3 9⁄16 in	8 ⅞ in	180 °F	**45K857**
¾ in	Low Lead Cast Bronze	3 9⁄16 in	8 ⅞ in		**45K858**
1 in	Low Lead Cast Bronze	4 ½ in	11 3⁄16 in		**45K859**
1 ¼ in	Low Lead Cast Bronze	6 ¾ in	14 ⅞ in		**45K860**
1 ½ in	Low Lead Cast Bronze	6 ¾ in	15 ¼ in		**45K861**
2 in	Low Lead Cast Bronze	6 ¾ in	16 in		**45K862**
Watts 909 Series					
¾ in	Bronze	10 ¼ in	17 in	140 °F	**15W048**
1 in	Bronze	10 ¼ in	17 in		**15W049**
1 ¼ in	Bronze	13 ½ in	23 ½ in		**15W050**
1 ½ in	Bronze	13 ½ in	23 ½ in		**15W051**
2 in	Bronze	13 ½ in	23 ½ in		**15W052**
2 ½ in	Cast Iron	24 in	46 in	110 °F	**15W053**
3 in	Cast Iron	24 in	42 ¼ in		**15W054**
4 in	Cast Iron	27 ⅝ in	55 ⅛ in		**15W055**
4 in	Cast Iron	34 ⅛ in	55 ⅛ in	140 °F	**26X122**
Zurn Wilkins 975XL2 Series					
¼ in	Low Lead Cast Bronze	4 ¼ in	5 ¾ in	180 °F	**45K850**
½ in	Low Lead Cast Bronze	4 ¼ in	5 ¾ in		**45K851**
¾ in	Bronze	5 ⅛ in	12 in	140 °F	**45K852**
1 in	Bronze	5 ⅛ in	13 in		**45K853**
1 ¼ in	Bronze	6 ¼ in	17 in		**45K854**
2 in	Bronze	6 ¼ in	18 ½ in		**45K856**
Zurn Wilkins 975XL Series					
¾ in	Bronze	5 ⅛ in	12 in	140 °F	**6AVX4**
1 in	Bronze	5 ⅛ in	13 in		**6AVX5**
1 ¼ in	Bronze	6 ¼ in	17 in		**6AVX6**
1 ½ in	Bronze	6 ¼ in	17 ⅜ in		**6AVX7**
2 in	Bronze	6 ¼ in	18 ½ in		**6AVX8**

For Use With	Item No.
Watts Repair Kits for 009 Series	
½ SS009M3QT, Mfr. No. 009QT	**5AJ57**
Watts No. 009QT	**5AJ58**
009QT, Mfr. No. 009-M1-QTS	**5AJ59**
Watts No. 009QT	**5AJ60**
Mfr. No. 009QT	**5AJ61**
Watts Series 009 (2½ to 3 in)	**6AUT0**
Watts Series 009 (M1 or 1¼ to 2 in)	**6AUT1**
Watts Series 009 (M2 or ¾ in)	**6AUT2**
Watts Series 009 (M2 or 1 in)	**6AUT3**

Size	For Use With	Item No.
Watts Air Gaps		
¼ in to ½ in	Series 909 (¼ in to ½ in)	**1KYE8**
¾ in to 1 in	Series 909 (¾ in to 1 in)	**1KYA3**
1 ¼ in to 3 in	Series 909 (1¼ in to 3 in)	**1KYF1**
2 ½ in to 10 in	Series 957 (2½ in to 10 in)	**1RCX9**
4 in to 6 in	Series 909 (4 in to 6 in)	**1KYE4**
Watts Caps/Adapters		
⅛ in	Watts Series SAE-TC (⅛ in SAE)	**6AUY1**
⅛ in	Watts Series SAE-TC (⅛ in SAE)	**6AUY2**
⅛ in to ¼ in	Watts RK-TC-P (⅛ in to ¼ in NPT)	**6AUY3**
¼ in	Watts Series SAE-TC (¼ in)	**6AUY4**
Watts Vent Elbows		
—	Watts Series 909 ELA	**6AUY9**
—	Watts Series 909 ELC	**6AUZ0**
—	Watts Series 909 ELF	**6AUZ1**
—	Watts Series 909 ELH	**6AUZ2**

For Use With	Item No.
Watts Repair Kits for 909 Series	
11/2 909M1QT, 2 909M1QT, Mfr. No. 11/4 909 QT	**1RCW3**
1 909 QT, Mfr. No. ¾"-1" 909QT	**1RCW1**
3 909 NRS, Mfr. No. 21/2 909 NRS	**1RCW4**
957-OSY 3 in, 957-OSY 4 in, Mfr. No. 957-OSY 21/2	**1RCY2**
Mfr. No. 4 909 NRS	**1RCW6**
Watts Series 909 (¾ to 1 in)	**6AUR1**
Watts Series 909 (¾ to 1 in)	**6AUU4**
Watts Series 909 (¾ to 1 in)	**6CUN2**
Watts Series 909 (M1 or 1¼ to 2 in)	**6AUU8**
Watts Series 909 M1, 1¼ to 2 in	**6AUR5**

For Use With	Item No.
Watts Test Cocks for 009, 909 Series	
Watts Series RK-SAE-TC (⅛ in SAE)	**6AUY0**
Watts Lead-Free Test Cocks for 009, 909 Series	
Watts Series LF-RK-TC3 (2½ in)	**46A950**
Watts Series LF-TC (¼ in)	**46A951**
Watts Test Cock Repair Kit	**46A952**
Watts Series LF-TC (½ in)	**46A953**
Watts Series LF-TC (¾ in)	**46A954**
Watts Series LF-NPT-TC (⅛ in)	**46A955**

For Use With	First Check Valve Repair Kit Item No.	Second Check Valve Repair Kit Item No.
Watts Repair Kits for 009 Series		
Watts Series 009 (¼ to ½ in)	**6CUH6**	—
Watts Series 009, ¼ to ½ in	—	**6CUL3**
Watts Series 009, ¾ to 1 in	**6CUH7**	**6CUL4**
Watts Series 009, 1¼ to 2 in	**6CUH8**	—
Watts Series 009 (1¼ to 2 in)	—	**6CUL5**
Watts Series 009, 2½ to 3 in	**6CUH9**	**6CUL6**
Watts Series 009 (M1 or 1¼ to 2 in)	**6CUJ0**	**6CUL7**
Watts Series 009 M2, ¾ in	**6CUJ1**	**6CUL8**
Watts Series 009 (M2 or 1 in)	**6CUJ2**	**6CUL9**
Watts Series 009 M2, 1¼ to 1½ in	—	**6CUN0**
Watts Series 009 (M2 or 1¼ to 1½ in)	**6CUJ3**	—
Watts Series 009 M2, 2 in	**6CUJ4**	**6CUN1**
Watts Series 009 M3, ¾ in	**6CUJ5**	—

For Use With	Relief Valve Repair Kit Item No.	Total Relief Kit Item No.
Watts Repair Kits for 009 Series		
Watts Series 009, ¼ to ½ in	**6AUP2**	**6AUT6**
Watts Series 009, ¾ to 1 in	**6AUP3**	—
Watts Series 009 (¾ to 1 in)	—	**6AUT7**
Watts Series 009, 2½ to 3 in	**6AUP5**	**6AUT8**
Watts Series 009 M2, ¾ in	**6AUP7**	**6AUT9**
Watts Series 009 (M2 or 1 in)	**6AUP8**	**6AUU0**
Watts 009 (M2 or 1¼ to 1½ in)	—	**6AUU1**
Watts Series 009 M2, 1¼ to 1½ in	**6AUP9**	—
Watts Series 009 M2, 2 in	**6AUR0**	—
Watts Series 009 (M2 or 2 in)	—	**6AUU2**
Watts Series 009 (M3 or ¾ in)	—	**6AUU3**

For Use With	First Check Valve Repair Kit Item No.	Second Check Valve Repair Kit Item No.
Watts Repair Kits for 909 Series		
Watts Series 909 (¾ to 1 in)	**6CUJ6**	—
Watts Series 909 M1, 1¼ to 2 in	**6CUK1**	—
Watts Series 909, 2½ to 3 in	**6CUJ7**	**6CUN3**
Watts Series 909, 4 in	**6CUJ8**	**6CUN4**

For Use With	Relief Valve Repair Kit Item No.	Backflow Preventer Repair Kit Item No.	Total Relief Kit Item No.
Watts Repair Kits for 909 Series			
Watts Series 909, 2½ to 3 in	**6AUR2**	—	—
Watts Series 909 (4 in)	**6AUR3**	—	—
Watts Series 909 (M1 or 4 to 8 in)	**6AUR6**	—	—
Watts Series 909, 6 in	—	**6AUT4**	—
Watts Series 909 (2½ to 3 in)	—	—	**6AUU5**
Watts Series 909, 4 in	—	—	**6AUU6**

For Use With	Item No.
Zurn Wilkins Repair Kits for 975XL Series	
Zurn Wilkins No. 112-975XL, Zurn Wilkins No. 114-975XL, Zurn Wilkins No. 2-975XL	**6CUN8**
Zurn Wilkins No. 12-975XL (6AVX3), Zurn Wilkins No. 14-975XL (6AVX1), Zurn Wilkins No. 38-975XL (6AVX2)	**6CUN6**
Zurn Wilkins No. 1-975XL, Zurn Wilkins No. 34-975XL	**6CUN7**

Description	For Use With	Item No.
Zurn Wilkins		
¼" Ball Type Test Cock	14-860XL	**20RJ65**
⅛" Ball Type Test Cock	18-860XL	**20RJ66**
Complete Relief Valve Repair Kit	975 213, 975 214, 975 215, 975 216, 975 212	**20RJ58**
Low-Lead ¼" Ball Type Test Cock	18-860XLFT	**20RJ67**
Low-Lead 375 Series Vessel Repair Kits	34-375XL, 34-975XL2	**20RJ71**
Low-Lead 375 Series Vessel Repair Kits	14-975XL	**20RJ72**
Low-Lead 375 Series Vessel Repair Kits	114-975XL2	**20RJ73**
Repair Kit	975 213, 975 214, 975 215, 975 216, 975 212	**20RJ51**
Repair Kits for 975XL Series	112-975XL, 2-975XL, 114-975XL	**20RJ38**
Repair Kits for 975XL Series	1-975XL, 34-975XL	**20RJ39**
Repair Kits for 975XL Series	12-975XL, 38-975XL, 14-975XL	**20RJ63**
Rubber Repair Kit	112-975XL, 2-975XL, 114-975XL	**20RJ35**
Rubber Repair Kit	1-975XL, 34-975XL	**20RJ36**
Rubber Repair Kit	375A10, 375A8, 375A9, 375	**20RJ59**
Seal Ring	950XL31, 950XL34	**20RJ45**
Seal Ring Repair Kit	1-975XL, 34-975XL	**20RJ60**

** Press connection.*

6CUN5

20RJ48

RPZ Backflow Preventers with Composite or Ductile Iron Body

ZURN WILKINS

- Max. pressure: 175 psi
- Max. temp.: 180°F; except 6AVY4 to 6CUN5 are 140°F
- For kit contents, go to Grainger.com

Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assemblies provide protection where a potential health hazard exists. Removable pressure vessel allows for easy repair and maintenance. Composite materials reduce the amount of bronze in the valve providing a built-in antitheft feature. Meet ASSE 1013, IAPMO, CSA, and USC.

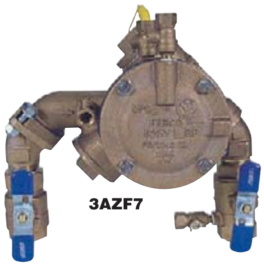
Size	Connection	Item No.
Reduced Pressure Zone Backflow Preventers		
Bronze		
½ in	FNPT	**46KK25**
¾ in	FNPT	**46KK26**
1 in	FNPT	**46KK27**
1 ¼ in	FNPT	**46KK28**
1 ½ in	FNPT	**46KK29**
2 in	FNPT	**46KK30**
Bronze Valve Body and Shut Off Valves, Composite Housing and Check Modules		
¾ in	FNPT X FNPT	**6AVX9**
1 in	FNPT X FNPT	**6AVY0**
1 ¼ in	FNPT X FNPT	**6AVY1**
1 ½ in	FNPT X FNPT	**6AVY2**
2 in	FNPT X FNPT	**6AVY3**
Epoxy Coated Ductile Iron Body		
2 ½ in	Flanged x Flanged	**6AVY4**
3 in	Flanged x Flanged	**6AVY5**
4 in	Flanged x Flanged	**6CUN5**

For Use With	Item No.
Lead-Free Zurn Wilkins Series 375R Repair Kits	
Zurn No. 34-375 (Lead Free)	**6CUN9**
Zurn No. 1-375 (Lead Free)	**6CUP0**
Zurn No. 112-375, Zurn No. 114-375, Zurn No. 2-375	**6CUP1**
Zurn No. 212-375A and 3-375A	**6CUP2**
Zurn No. 212-375A, Zurn No. 3-375A, Zurn No. 4-375A	**6CUP3**

Description	For Use With	Item No.
Repair Kits		
375 Inlet Ball Valve Repair Kit	375-1	**20RJ64**
375 Series Repair Kit	375A10, 375A8, 375A9, 375	**20RJ49**
Complete Repair Kit, 212 in to 6 in	212-375A, 3-375A, 4-375A, 2-375	**20RJ48**
Number 1 Check Assembly Repair Kit, 2 ½ in to 6 in	3-375A, 4-375A, 212-375A	**20RJ41**
Number 1 Check Assembly Repair Kit, 8 in to 10 in	375A10, 375A8, 375A9, 375	**20RJ43**
Number 2 Check Assembly Repair Kit, 2 ½ in to 4 in	4-375A	**20RJ44**
Number 2 Check Assembly Repair Kit, 6 in	3-375A, 4-375A, 212-375A	**20RJ40**
Wilkins No. 212-375 Repair Kit	212-375A, 3-375A, 4-375A, 2-375	**20RJ46**

RPZ Y-Shaped Backflow Preventers

FEBCO



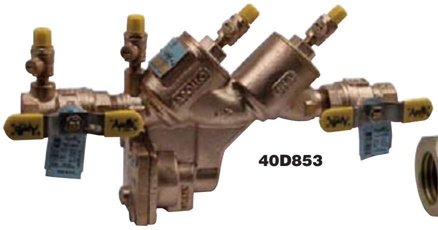
3AZF7

- Max. pressure: 175 psi
- Max. temp.: 140°F
- For kit contents, go to Grainger.com

Modular relief and check valves can be removed without the danger of spool substitution. Bronze construction. Use in industrial irrigation systems to protect against contamination from high-hazard (toxic) fluids. Meet ASSE 1013, AWWA C-511-92, CSA B64.4.

Size	Connection	W	L	Mfr. Model	Item No.
Reduced Pressure Zone Backflow Preventer, Bronze					
¾ in	FNPT	4 in	14 ⅜ in	¾ 825 YA	**3AZF7**
1 in	FNPT	4 in	14 ⅜ in	1 825 YA	**3AZF8**
1 ½ in	FNPT	10 in	22 in	825 YA 1 ½	**6AUX3**
2 in	FNPT	10 in	22 in	825 YA 2	**6AUX4**
Reduced Pressure Zone Backflow Preventer, Lead Free Bronze					
¾ in	NPT	4 ⅛ in	12 in	¾ LF825YA-QT RP	**26X127**
1 in	NPT	4 ⅛ in	12 ¾ in	1 LF825YA-QT RP	**26X128**
1 ½ in	NPT	5 in	17 in	1 ½ LF825YA-QT RP	**26X129**
2 in	NPT	5 in	17 ¾ in	2 LF825YA-QT RP	**26X130**

Description	For Use With	Item No.
Repair Kits		
Check Valve Repair Parts	Febco Backflow, ¾ to 1 in	**15W038**
Relief Valve Repair Kit	Febco Backflow, ¾ to 1 in	**15W039**
Relief Valve Repair Kit	Febco Backflow (¾ to 1 in)	**15W042**
Relief Valve Repair Kit	Febco Backflow, 1½ to 2 in	**15W044**
Relief Valve Repair Kit	Febco Backflow, 1½ to 2 in	**15W047**
Rubber Parts Kit	¾ in to 1 ¼ in Reduced Pressure Zone Assembly	**15W040**
Rubber Parts Kit	Febco Backflow, 1½ to 2 in	**15W045**
Single Check Kit	Fedco Backflow (¾ to 1 in)	**15W041**
Single Check Kit	Febco Backflow (1½ to 2 in)	**15W046**



40D853

36Y566

Lead-Free Reduced-Pressure Zone (RPZ) Backflow Preventers

Apollo Valves

- Max. pressure: 175 psi
- Max. temp.: 180°F
- Bronze body

Top-mounted test cocks. Backflow preventers are certified for use in potable water applications Meet ASSE 1013, USC, FCCCHR, and ARRA; UL Classified when ordered without ball valves.

Repair Kits—Use to replace all elastomer parts in assemblies. Include O-rings, seat, and diaphragm relief valve.

Air Gap Drain Kits—Funnel minor relief valve discharges into the drainage system. Threaded connections.

Replacement Test Cock—Use to facilitate backflow assembly testing or as isolation valves for gauges or small equipment lines.

Size	Connection	W	L	Mfr. Model	Item No.
Lead Free Bronze Reduced Pressure Zone Backflow Preventers					
½ in	FNPT	2 ⅞ in	10 ⅞ in	4ALF203A2F	**40D852**
¾ in	FNPT	3 ⅛ in	12 ⅝ in	4ALF204A2F	**40D853**
1 in	FNPT	3 ¼ in	14 ⅝ in	4ALF205A2F	**40D854**
1 ¼ in	FNPT	5 ⅛ in	17 ½ in	4ALF206T2F	**40D855**
1 ½ in	FNPT	5 ⅛ in	18 in	4ALF207T2F	**40D856**
2 in	FNPT	5 ⅞ in	20 ⅛ in	4ALF208T2F	**40D857**

For Use With	Item No.
Backflow Preventer Repair Kits	
Apollo 40201T2, Apollo 40202T2, Apollo 40203T2	**2ZXY7**
Mfr. 40204T2	**2ZXY8**
Mfr. 40207T2	**2ZXY9**

Size	For Use With	Item No.
Air Gap Drain Kits		
½ in, ¼ in, ⅜ in	40202T2, 40203T2, Mfr. 40201T2	**2ZXY5**
¾ in to 1 in	Mfr. 40207T2	**2ZXY6**
½ in, ¾ in, 1 in	4A RPZ ½ in to 1 in	**40D971**
½ in, 1 ¼ in, 1 ½ in	4A RPZ 1¼ in to 1½ in	**40D972**
2 in	4A RPZ 2 in	**40D973**
Test Cock, MNPT x FNPT		
⅛ in x ¼ in	Testable Backflow Devices	**36Y566**

1RCZ6

29YL74

Bronze and Lead-Free Brass Antisiphon Vacuum Breakers

WATTS REGULATOR

- For kit contents, go to Grainger.com

Protect the potable water supply against backsiphonage of contaminated water in indoor point-of-use applications. NPT connection. Meet USC, except Lead-Free 288 Series meets ANSI A112.1.1 and ASSE 1001; CSA B64 Certified.

Bronze 800 Series—Use for health hazard continuous-pressure applications where the water enters equipment at or below its flood rim.

Lead-Free Brass 288 Series—Ideal for low flow installations such as laboratory equipment that use a small amount of water.

Size	Max. Pressure	Temp. Range	Mfr. Model	Item No.
Bronze, Watts 800 Series				
¾ in	180 psi	33° to 180°F	800M4QT3/4"	**1RCZ6**
1 in	180 psi	33° to 180°F	800M4QT-1"	**1RCZ8**
Lead Free Brass, 288 Series				
⅜ in	125 psi	33° to 180°F	LF288A-3/8"	**29YL74**
½ in	125 psi	33° to 180°F	LF288A-1/2"	**29YL75**
½ in	125 psi	33° to 180°F	LF288AC-1/2"	**29YL80** *
¾ in	125 psi	33° to 180°F	LF288A-3/4"	**29YL76**

** Polished-chrome finish.*

For Use With	Item No.
Vacuum Breaker Repair Kits for Watts Series 008	
Watts Series 008 (¾ to 1 in)	**6AUV6**
Watts Series 008 (⅜ to ½ in)	**6AUV5**
Vacuum Breaker Repair Kits for Watts Series 800	
Watts Series 800 (½ to 1 in)	**6CUK2**
Watts Series 800 (½ to 1 in)	**6AUV0**
Watts Series 800 (½ to 1 in)	**6AUV7**
Watts Series 800 (M2 or ½ to 1 in)	**6CUK3**
Watts Series 800 (M3 or ½ to ¾ in)	**6AUV9**
Watts Series 800 (M4 or ½ to ¾ in)	**6AUV3**
Watts Series 800 (M4 or ½ to ¾ in)	**6AUW0**
Watts Series 800 (M4 or ½ to 3/)	**6CUK5**
Watts Series 800 (M4 or 1 in)	**6AUV4**
Watts Series 800 M2, ½ to 1 in	**6AUV1**
Watts Series 800 M2, ½ to 1 in	**6AUV8**
Watts Series 800 M3, ½ to ¾ in	**6CUK4**
Watts Series 800 M3, ½ to ¾ in	**6AUV2**
Watts Series 800 M4, 1 in	**6CUK6**
Watts Series 800 M4, 1 in	**6AUW1**

WATTS REGULATOR

Double Check Valve Assemblies

6A769

- Max. pressure: 175 psi
- Max. temp.: 180°F
- Bronze body

For cross-connections identified as for non-health hazard applications. Include strainer. NPT connection. Meet ASSE 1015 and AWWA C-510-89, except Lead-Free models meet ASSE 1015, AWWA C-510, CSA B64.5, and IAPMO PS31.

Size	Watts 007 Series Mfr. Model	Watts 007 Series Item No.	Lead-Free Watts 007 Series Mfr. Model	Lead-Free Watts 007 Series Item No.
¾ in	007M2QTS-3/4"	**6A767**	¾ LF007M3-QT-S	**15W058**
1 in	007MIQTS-1	**6A768**	1 LF007M1-QT-S	**15W059**
2 in	007MIQTS-S	**6A769**	2 LF007M1-QT-S	**15W060**

Lead-Free Double Check Valves Assemblies

Apollo Valves

- Max. pressure: 175 psi
- Max. temp.: 180°F

Help protect potable water supply from contamination due to reverse flow. Accessible internal components ease maintenance. Test cocks with SAE flare connection for faster testing. Stainless steel handles and trim for long life. NPT connection. Certified for use in potable water applications. Meets USC, IAPMO, and CSA Certified.

Size	W	L	Mfr. Model	Item No.
½ in	2 ½ in	11 in	4ALF103A2F	**40D846**
¾ in	3 in	12 ¾ in	4ALF104A2F	**40D847**
1 in	3 ¼ in	14 ⅝ in	4ALF105A2F	**40D848**
1 ¼ in	4 ¾ in	18 ⅝ in	4ALF106A2F	**40D849**
1 ½ in	4 ¾ in	18 ¾ in	4ALF107A2	**40D850**
2 in	5 ⅜ in	21 ⅛ in	4ALF108A2F	**40D851**

40D847

Dual Check Valves

WATTS REGULATOR · Apollo Valves · ZURN WILKINS

Protect against backpressure and backsiphonage contamination by nonhazardous liquids. All models meet ASSE 1024, except where indicated in table. For a complete list of standards and specifications, go to Grainger.com and search for individual products.

4A810 and 4A811—With integral strainer and durable rubber discs.

48UE76—2 independently acting, spring-loaded check valves; corrosion-resistant housing.

5AJ89—For non-health hazard, continuous-pressure use and ideal for washdown applications in dock areas. Ball valve design and integral stainless steel screen. Can be mounted vertically.

Pipe or Tube Size	Connec. Type	Material of Construc.	Max. Water Pressure	Max. Temp.	Brand	Mfr. Model	Item No.
Dual Check Valve							
¾"	Press	Brass	175 psi	250°	Watts Regulator	¾ 9DM2-PRESS	**429J17**
Dual Check Valve w/ Atmospheric Vent							
½"	FNPT Union	Bronze	—	250°	Watts	9D-M3-1/2"	**4A810** *
¾"	FNPT Union	Bronze	—	250°	Watts	9D-M2-3/4"	**4A811** *
	FNPT Union	Forged Brass	175 psi	250°	Apollo	4A4A44AM	**48UE76** *
	FNPT x MNPT	Brass	—	180°	Watts	912-HP ¾"	**5AJ89** *
Lead Free - Dual Check Valve							
⅜"	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3A22A	**40D858**
	FNPT	Lead-Free Bronze	—	180°	Watts	⅜ LF7	**46A959**
¾"	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3A44A	**52DD47** †
	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3A44B	**40D861**
	FNPT	Lead-Free Bronze	—	180°	Watts	¾ LF7 U2-2	**46A960**
	MNPT x Union FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	34MX34UF-700XL	**22N553**
	SWV X NPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3S54A	**40D864**
	Union FNPT x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	34UFX34F-705	**22N556**
	Union FNPT x FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	34UFX34F-700XL	**22N552**
1"	FNPT	Lead-Free Bronze	175 psi	180°	Apollo	4ALF3A55A	**48WL17**
	FNPT	Lead-Free Bronze	—	180°	Watts	1 LF7 U2-2	**46A961**
	MNPT x Union FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	1MX1UF-700XL	**22N555**
	SWV X NPT	Lead-Free Bronze	175 psi	180°	Apollo	4NLF3S65A	**40D865**
	Union Female Meter x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFMX1F-705	**22N559**
	Union FNPT x FNPT	Lead-Free Bronze	—	180°	Zurn Wilkins	1UFX1F-700XL	**22N554**
	Union FNPT x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFX1F-705	**22N557**
1" x ¾"	Union Female Meter x FNPT	Lead-Free Composite	—	180°	Zurn Wilkins	1UFMX34F-705	**22N558**
Lead Free - Dual Check Valve w/ Atmospheric Vent							
½"	FNPT	Lead-Free Brass	175 psi	250°	Apollo	4ALF4A33AM	**406F53**

** Meet ASSE 1012. † PTFE seal.*

4A811

48UE76

HOT BOX · NDS We put water in its place

Valve Enclosures and Boxes

Valve Enclosures—Help protect backflow protection devices, valves, and pumps from freezing. The vandal-resistant access cover is hinged; lockable. Drain openings accommodate maximum RPZ discharge. 120V. Unit can be anchored to a concrete pad. Meets ASSE 1060.

Valve Boxes—Protect irrigation valve and the overlapping cover keeps debris from between the body and cover. Rugged PVC construction with fade-resistant finish. For use in commercial, residential, and municipal landscape applications.

Meter Boxes—Ideal for protecting underground water meters and constructed of rugged, injection molded, recycled structural foam polyolefin material. UV inhibitors help prevent discoloration and cracking. The corrugated sidewalls help provide greater strength, while the reinforced covers keep out debris and can handle heavy loads.

Description	Body Material	Color	H	W	L	Item No.
Valve Enclosures, HOT BOX						
Heated, Pipe Size: ¾ in, Ins. Class: R8	Fiberglass	Beige	22"	11"	19"	**6CHJ7**
Heated, Pipe Size: 1 in, Ins. Class: R8	Fiberglass	Beige	23"	13"	27"	**6CHJ9**
Heated, Pipe Size: 2 in, Ins. Class: R8	Fiberglass	Beige	28"	13"	39"	**6CHK1**
Heated, Pipe Size: 3 in, Ins. Class: R8	Fiberglass	Beige	45"	26"	70"	**6CHK3**
Heated, Pipe Size: 4 in, Ins. Class: R10	Aluminum	Gray	50½"	32"	90"	**6CHK5**
Unheated, Pipe Size: ¾ in, Ins. Class: R8	Fiberglass	Beige	22"	11"	19"	**6CHJ8**
Unheated, Pipe Size: 1 in, Ins. Class: R8	Fiberglass	Beige	23"	13"	27"	**6CHK0**
Unheated, Pipe Size: 2 in, Ins. Class: R8	Fiberglass	Beige	28"	13"	39"	**6CHK2**
Unheated, Pipe Size: 3 in, Ins. Class: R8	Fiberglass	Beige	45"	26"	70"	**6CHK4**
Unheated, Pipe Size: 4 in, Ins. Class: R10	Aluminum	Gray	50½"	32"	90"	**6CHK6**
Valve Boxes, NDS						
Oval, Pipe Size: 2¼ in x 2¾ in	Polyolefin	Green	9¾"	11"	15¼"	**52XA21**
Rectangular	PVC	Black/Green	12"	15½"	21"	**20RE34**
	PVC	Black/Green	12"	20"	13"	**20RE35**
Rectangular, Pipe Size: 2¾ in x 2½ in	Polyolefin	Green	12¾"	15⅛"	21⅝"	**52XA07**
Rectangular, Pipe Size: 3 in x 4 in	Polyolefin	Green	10¼"	13⅜"	19¼"	**52XA08**
Round, 6 ½ in Dia.	PVC	Black/Green	9"	8⅜"		**20RE32**
Round, 12 13⁄16 in Dia.	PVC	Black/Green	10 7⁄16"	12 13⁄16"	12 13⁄16"	**20RE33**
Meter Boxes, NDS						
Rectangular, Pipe Size: 2½ in x 3¼ in	Polyolefin	Black	1½"	11"	16¼"	**52XA14**
	Polyolefin	Black	1⅝"	10⅛"	15⅜"	**52XA17**
	Polyolefin	Black	12"	15¾"	21½"	**52XA12**
	Polyolefin	Black	12"	15¾"	21½"	**52XA13**
	Polyolefin	Black	12"	16¼"	21¼"	**52XA15**
	Polyolefin	Black	12"	16¼"	21¼"	**52XA16**
	Polyolefin	Black	12¼"	15¾"	21⅝"	**52XA11**
	Polyolefin	Black	12 5⁄16"	15¾"	21⅝"	**52XA10**
Rectangular, Pipe Size: 3 in x 4 in	Polyolefin	Black	12"	20"	25¾"	**52XA19**
	Polyolefin	Black	12 1⁄32"	13¾"	19¾"	**52XA18**
	Polyolefin	Black	12¼"	19¾"	26"	**52XA20**
Round, Pipe Size: 2¼ in x 2¾ in	Polyolefin	Black	9"	8½"	8½"	**52XA09**

6CHJ7

20RE35

5DMF0

20RH69

Lead-Free Point of Use Mixing Valves

Hot water temperature control valves are specifically designed for mixing cold and hot water on hot water supply systems. Can be used to reduce the temperature of hot water from the system, and are ideal for radiant heat and under-the-sink applications. All models are certified for use in potable water applications.

Inlet/ Outlet Size	Inlet/Outlet Type	Body Material*	Flow Rate	Temp. Range	Max. Pressure	Brand	Item No.
Inline Hot Water Shut-Off							
½ in	NPT	BR	—	117° to 185°F	145 psi	Cash Acme	**20RH71**
Mini Thermostatic Mixing Valve							
⅜ in	Comp.	BZ	—	95° to 118°F	230 psi	Cash Acme	**20RH70**
Mixing Valve							
⅜ in	Comp.	BR	0.5 to 2.5 gpm	80° to 120°F	150 psi	Watts	**20G110**
⅜ in	Comp.	BZ	0.25 to 5 gpm	90° to 140°F	125 psi	Leonard Valve	**15Z013**
⅜ in	Comp.	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn Wilkins	**45K867**
⅜ in	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D643**
⅜ in	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D645**
⅜ in	FNPT	BZ	0.5 to 3.10 gpm	95° to 115°F	145 psi	Zurn Wilkins	**45K864**
½ in	FNPT	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF2**
½ in	FNPT	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn Wilkins	**45K865**
½ in	FNPT	BZ	0.5 to 10 gpm	95° to 115°F	145 psi	Zurn Wilkins	**45K866**
½ in	MNPT	BZ	0.25 to 12 gpm	90° to 140°F	125 psi	Leonard Valve	**15Z014**
½ in	MNPT	GFP	0.35 to 5.5 gpm	95° to 125°F	125 psi	Bradley	**40D642**
½ in	MNPT/Sweat	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D644**
½ in	PEX	BR	20 gpm at 125 psi	80° to 120°F	150 psi	Watts	**5DMF7**
½ in	PEX	GFP	0.5 to 11 gpm	59° to 140°F	125 psi	Bradley	**40D648**
½ in	Press	CSA	0.5 to 12 gpm	80° to 120°F	150 psi	Watts Regulator	**429J22**
½ in	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts Regulator	**429J19**
½ in	Solder	BR	0.5 to 23 gpm	80° to 120°F	150 psi	Watts	**5DMF0**
½ in	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF4**
¾ in	FNPT	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF3**
¾ in	MNPT	BZ	0.5 to 13 gpm	90° to 140°F	125 psi	Leonard Valve	**15Z015**
¾ in	MNPT	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D646**
¾ in	PEX	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF6**
¾ in	PEX	BR	20 gpm at 125 psi	80° to 120°F	150 psi	Watts	**5DMF8**
¾ in	PEX	GFP	0.5 to 11 gpm	59° to 140°F	125 psi	Bradley	**40D649**
¾ in	Press	CSA	0.5 to 12 gpm	80° to 120°F	150 psi	Watts Regulator	**429J23**
¾ in	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts Regulator	**429J20**
¾ in	Solder	BR	0.5 to 20 gpm	80° to 120°F	150 psi	Watts	**5DMF1**
¾ in	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	**5DMF5**
¾ in	Sweat	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	**40D647**
Thermostatic Mixing Valves w/Locking Mechanism							
⅜ in	Comp.	BZ	0.5 to 3.10 gpm	95° to 115°F	145 psi	Zurn Wilkins	**45K863**
½ in	NPT	BZ	—	85° to 130°F	230 psi	Cash Acme	**20RH67**
½ in	Push Fit	BZ	—	85° to 130°F	200 psi	Cash Acme	**20RH65**
¾ in	NPT	BZ	—	85° to 130°F	230 psi	Cash Acme	**20RH68**
¾ in	NPT	DZRBR	—	90° to 130°F	150 psi	Cash Acme	**20RH69**
¾ in	Push Fit	BZ	—	85° to 130°F	200 psi	Cash Acme	**20RH66**

** BR = brass, BZ = bronze, CSA = copper silicone alloy, DZRBR = DZR brass, GFP = glass-filled polysulfone.*

46A967

Automatic Air Vent Valves, Air Separators, and Boiler Feed Valves

Automatic Air Vent Valves, Brass—Provide automatic air venting for cold or hot water distribution systems. Valve can be disassembled for maintenance.

Automatic Vents for Hot Water, Brass—Allows easy replacement cartridge installation without system shut down. Suitable for automatic or manual air release on baseboards, convectors, radiators, and high points in piping systems.

Air Separators, Iron—Designed to separate air from water in hydronic heating systems. Separators have tappings that allow installation of an air vent and expansion tank.

Boiler Feed Valves with Backflow Preventer, Cast-Iron—Combination backflow preventer and feed water pressure regulator in 1 pre-assembled unit.

Inlet	Max. Working Pressure (psi)	Max. Temp. (°F)	W (in.)	H (in.)	Item No.
Automatic Air Vent Valves, Brass					
½ in	150 psi	240 °F	1 ¼ in	3 5/16 in	**46A962**
¾ in			1 ¼ in	3 ⅜ in	**46A963**
1 in			1 ⅜ in	3 ½ in	**46A964**
Automatic Vent For Hot Water, Brass					
⅛ in	125 psi	240 °F	1 in	1 ½ in	**46A965**
¼ in			1 in	1 ½ in	**46A966**
Air Separator, Iron					
1 in	80 psi	275 °F	3 in	4 in	**46A969**
1¼ in			3 in	4 in	**46A970**
1½ in			3 in	5 7/16 in	**46A971**

Pipe Size	Max. Pressure	Max. Fluid Temp.	L	H	Item No.
Boiler Feed Valve w/Backflow Preventer, Bronze					
½ in	100 psi	212 °F	8 ½ in	5 ¼ in	**46A967**
½ in			8 ½ in	5 ¼ in	**46A968**

6AKW2

6CJP5

Pressure-Reducing Control Valves

- Operating temp.: 180°F
- Adjustment range: 30 to 300 psi

Ductile iron body and cover. Stem, spring, and nut are stainless steel; trim is 316 stainless steel. Buna N elastomer. Meet ASTM A536. NSF Listed.

Full Port—Throttles to reduce higher upstream pressure to constant lower stream pressure. Adjustable closing speed and reducing setpoint.

Single Chamber—Fixed orifice with nonadjustable closing speed and set point.

Description	For Use With	Item No.
Rebuild Kits		
Pilot Rebuild Kit	Mfr. 263AP	**6AKW1**
	6AKW9	**6AKX1**
	6AKX0	**6AKX2**
Pressure Reducing Pilot	6AKW2-8	**6AKW9**
	All M116 Model Numbers	**6AKX0**
Pressure Regulator, Lead-Free Brass	—	**40F295**
Valve Rebuild Kit	6CJP1	**6CJP8**
	6CJP2-4	**6CJP9**
	Mfr. 115-4 FL	**6CJR0**
	6CJP6	**6AKV9**
	6AKW2, 6AKW3	**6AKX3**
	6AKW4	**6AKX4**
	6AKW5	**6AKX5**
	6AKW6	**6AKX6**
	6AKW7	**6AKX7**
	6AKW8	**6AKX8**

Pipe Size	Connec. Type	Operating Pressure	Max. Continuous Flow Rate	Max. Intermittent Flow Rate	Port Size	Item No.
Full Port						
2 in	Threaded	400 psi	210 gpm	265 gpm	½ in x ½ in x ¼ in	**6AKW2**
2 in	Flanged	250 psi	210 gpm	265 gpm	½ in x ½ in x ¼ in	**6AKW3**
2 ½ in	Threaded	400 psi	300 gpm	390 gpm	½ in x ½ in x ⅛ in	**6AKW4**
3 in	Flanged	250 psi	485 gpm	590 gpm	½ in x ½ in x ⅜ in	**6AKW5**
4 in	Flanged	250 psi	800 gpm	1,000 gpm	½ in x ½ in x ⅜ in	**6AKW6**
6 in	Flanged	250 psi	1,850 gpm	2,300 gpm	½ in x ½ in x ½ in	**6AKW7**
8 in	Flanged	250 psi	3,100 gpm	4,000 gpm	½ in x 1 in x ½ in	**6AKW8**
Single Chamber						
1 ¼ in	Threaded	400 psi	93 gpm	115 gpm	¼ in x ½ in x ⅛ in	**6CJN9**
1 ½ in	Threaded	400 psi	125 gpm	158 gpm	¼ in x ½ in x ⅛ in	**6CJP0**
2 in	Threaded	400 psi	208 gpm	250 gpm	½ in x ½ in x ¼ in	**6CJP1**
2 ½ in	Threaded	400 psi	300 gpm	370 gpm	½ in x ½ in x ⅜ in	**6CJP2**
3 in	Threaded	400 psi	460 gpm	570 gpm	½ in x ½ in x ⅜ in	**6CJP3**
3 in	Flanged	250 psi	460 gpm	570 gpm	½ in x ½ in x ⅜ in	**6CJP4**
4 in	Flanged	250 psi	800 gpm	1,000 gpm	½ in x ½ in x ⅜ in	**6CJP5**
6 in	Flanged	250 psi	1,800 gpm	2,300 gpm	½ in x ½ in x ½ in	**6CJP6**

Air Release and Air Vacuum Valves

- Max. temp.: 250°F
- Vacuum pressure: 29” Hg
- FNPT connection

Cast-iron construction. Float and internal components are 316 stainless steel.

Air Release Valves—Resilient seal for positive shutoff. Nonclogging design helps eliminate backwash. Releases pockets of accumulated air in a pressurized water system.

Air Vacuum Valves—Have high/low pressure resilient seating. Full pipe size inlets and outlets help prevent clogging. For use in water distribution and transmission and vacuum protection.

Air Release/Air Vacuum Valves—Incorporate both an air release valve and an air vacuum valve into 1 compact unit. Suitable for all high points in a water distribution transmission system.

5LYL0

5WLY6

Application	Inlet Size	Outlet Size	Min. Pressure	Max. Pressure	Max. Vent Capacity	Item No.
Air Release Valves						
Clean Water	½ in	½ in	5 psi	175 psi	6 scfm at 150 psi	**5LYL0**
	¾ in	½ in	5 psi	175 psi	6 scfm at 150 psi	**5LYL1**
	1 in	½ in	5 psi	150 psi	55 scfm at 150 psi	**5LYL3**
	1 in	½ in	5 psi	175 psi	6 scfm at 150 psi	**5LYL2**
	2 in	½ in	5 psi	150 psi	55 scfm at 150 psi	**5LYL4**
Waste Water	2 in	½ in	5 psi	150 psi	55 scfm at 150 psi	**5WLY3**
	3 in	½ in	5 psi	150 psi	55 scfm at 150 psi	**5WLY4**
	4 in	½ in	5 psi	150 psi	55 scfm at 150 psi	**5WLY5**
Air Vacuum Valves						
Clean Water	½ in	½ in	5 psi	300 psi	—	**5WLX9**
	1 in	1 in	5 psi	300 psi	—	**5WLY0**
	2 in	2 in	5 psi	300 psi	—	**5WLY1**
	3 in	3 in	5 psi	300 psi	—	**5WLY2**
Air Release/Air Vacuum Valves						
Clean Water	1 in	1 in	5 psi	300 psi	18 scfm at 300 psi	**5LYL5**
	2 in	2 in	5 psi	300 psi	25 scfm at 300 psi	**5WLX6**
	3 in	3 in	5 psi	300 psi	25 scfm at 300 psi	**5WLX7**
	4 in	4 in	5 psi	300 psi	25 scfm at 300 psi	**5WLX8**
Waste Water	2 in	1 in	5 psi	150 psi	25 scfm at 150 psi	**5WLY6**
	2 in	2 in	5 psi	150 psi	29 scfm at 150 psi	**5WLY7**
	3 in	3 in	5 psi	150 psi	45 scfm at 150 psi	**5WLY8**

Mixing Valves

Certified for use in potable water applications.

Powers—Feature paraffin-based, advanced thermal actuation design to sense and adjust outlet temperature for precise temperature control. Virtual shutoff if supply pressure fails. Vandal-resistant locking mechanism. Rotatable union triple-duty checkstops.

- Max. pressure: 125 psi
- Temp. range: 90° to 160°F

Watts—Uses a double throttling design to control both the cold and hot water supply to the mixed outlet. Includes an adjustment cap with locking feature.

- Max. pressure: 150 psi
- Temp. range: 80° to 120°F

Inlet Size	Outlet Size	Inlet/ Outlet Type	Flow Rate	Body Material	Std.	Brand	Mfr. Model	Item No.
¾ in	¾ in	FNPT	42 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ LFMM431-1	**15W074**
	1 in	FNPT	64 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ x 1 LFMM432-1	**15W075**
	1 in	NPT	57 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1432 W/TP GAUGE	**26X132**
1 ¼ in	1 ¼ in	FNPT	110 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ¼ LFMM433-1	**15W076**
	1 ½ in	FNPT	144 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ½ LFMM434-1	**15W077**
	1 ½ in	NPT	127 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1434 W/TP GAUGE	**26X133**
1 in	1 in	PEX	20 gpm at 125 psi	Brass	ASSE 1016-96, ASSE 1017ASSE 1069 & ASSE 1070CSA B125 Certified	Watts	1 LF MMV-PEX	**5DMF9**
2 in	2 in	FNPT	208 gpm	Brass	ASSE 1017, CSA B125	Powers	2 LFMM435-1	**15W078**
	2 in	NPT	201 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1435 W/TP GAUGE	**26X134**

15W075

Steam and Water Mixing Valves

- Max. pressure: 80 psi
- Temp. range: 65° to 140°F

Lead free thermostatic mixing to maintain output water temperature for industrial steam mixing applications. FNPT connections.

Inlet Size	Outlet Size	Flow Rate	Mfr. Model	Item No.
Chrome-Plated Lead Free Bronze				
¾ in	¾ in	27 gpm	TMS-25-CP	**15Z016**
¾ in	1 in	30 gpm	TMS-50-CP	**15Z018**
1 in	1 ¼ in	32 gpm	TMS-80-CP	**15Z020**
1 ¼ in	1 ½ in	60 gpm	TMS-150-CP	**15Z022**
Lead Free Rough Bronze				
¾ in	¾ in	27 gpm	TMS-25-RF	**15Z017**
¾ in	1 in	30 gpm	TMS-50-RF	**15Z019**
1 in	1 ¼ in	32 gpm	TMS-80-RF	**15Z021**
1 ¼ in	1 ½ in	60 gpm	TMS-150-RF	**15Z023**

15Z017

Lead Free Hot Water Distribution Systems

TM Series (29JA78): Single valve is highly responsive to temp. changes. Bi-metal thermostat.

XL Series: Single valve for high and low water flows. Wax thermostats with ball valve and dial thermometer.

LV Series: Single valve master mixing valve. Wax thermostat.

TM Hi-Lo System Series (29JA79 to 29JA84): 2 valve system for low and high water demands. Bi-metal thermostat.

All models are ideal for industrial and commercial applications. Certified for use in potable water applications and meet ASSE 1017.

For Use With	Includes	Mfr. Model	Item No.
Rebuild Kits			
29JA68	Element Holder, O-Rings, Retaining Ring, Return, Shuttle, Spacer, Spring, Thermostatic Elements	KIT R/XL32	**20RH45**
29JA69		KIT R/XL82	**20RH46**
29JA70		KIT R/XL150	**20RH47**
29JA71		KIT R/XL200	**20RH48**
40PR85		KIT R/LV981	**20RH49**
29JA73		KIT R/LV982	**20RH50**
29JA74, 29JA75		KIT R/LV984	**20RH51**
29JA76		KIT R/LV985	**20RH52**
29JA77	Cover Gasket, Thermostatic Control Assembly	KIT R/M20	**20RH53**
29JA78		KIT R/28	**20RH54**
TM-50-AT-LF, TM-80-AT-LF	Coil Sleeve, Flange, Nut, O-Ring, Pointer Rod, Port Sleeve	KIT R/50	**20RH55**
TM-125-AT-LF, TM-150-AT-LF		KIT R/125	**20RH56**
29JA84		KIT R/200/N	**20RH57**
TA-300	Base Stud, Cover Gasket, Port Sleeve Assembly and O-Rings, Port Sleeve Nut, Stem O-ring, Thermostatic Group	R/TA/M	**34CU42**
TM-800	Coil Sleeve Stud, Flange Packing, Pointer Rod With Gear, Port Sleeve Assembly and Thermostatic Group, Port Sleeve Nut Assembly, Rod O-Rings	R/50M	**34CU43**

29JA73

Inlet Size	Outlet Size	Inlet/ Outlet Type	Temp. Range	Mfr. Model	Item No.
¾ in	¾ in	Sweat	90° to 140°F	XL-32A-LF-BDT	**29JA68**
	¾ in	Sweat	90° to 135°F	TM-26-LF-RF	**29JA78**
	¾ in	Sweat	95° to 140°F	LV-981A-LF-RF	**40PR85**
	1 in	NPT	60° to 200°F	TM-420B-LF-DT-RF	**29JA79**
	1 in	NPT	60° to 200°F	TM-520B-LF-DT-RF	**29JA80**
1 ¼ in	1 ½ in	NPT	95° to 135°F	XL-150-LF-BDT	**29JA70**
	1 ½ in	NPT	95° to 135°F	LV-984-LF-RF	**29JA75**
	1 ½ in	NPT	60° to 200°F	TM-1520B-LF-DT-RF	**29JA83**
1 in	1 ¼ in	NPT	95° to 135°F	XL-82-LF-BDT	**29JA69**
	1 ¼ in	NPT	90° to 140°F	LV-982-LF-RF	**29JA73**
1 ¼ in	1 ¼ in	NPT	95° to 135°F	LV-983-LF-RF	**29JA74**
1 in	1 ¼ in	NPT	60° to 200°F	TM-820B-LF-DT-RF	**29JA81**
1 ¼ in	1 ¼ in	NPT	60° to 200°F	TM-920B-LF-DT-RF	**29JA82**
2 in	2 in	NPT	60° to 200°F	TM-2020B-LF-DT-RF	**29JA84**
	2 in	Sweat	90° to 135°F	XL-200-SW-LF-BDT	**29JA71**
	2 in	Sweat	95° to 135°F	LV-985-SW-LF-RF	**29JA76**

Hose Stations and Accessories

45K810 and 45K811 are specially designed for use with live steam and water, and have an automatic shutdown feature if cold water supply is interrupted. 45K812 and 45K813 feature a thermostatically controlled valve that helps to maintain a constant temperature. 45K816 and 45K823 are manually blended models that can handle both hot water or steam for blending. Hose stations are for use in dairy, food processing, manufacturing, and pharmaceutical plants and in other industrial washdown applications.

Pipe Size	Connec. Type	Max. Flow Rate	L	H	Temp. Range	Material	Finish	Mfr. Model	Item No.
Hose Stations									
¾ in	FNPT x MGHT	6 gpm	10 in	24 ½ in	60° to 200°F	Bronze	Chrome	3800-VBD-CP	**45K810**
			10 in	24 ½ in		Bronze	Rough Bronze	3800-VBD-RF	**45K811**
			10 in	25 in		Lead Free Bronze	Chrome	SW-75-EVBD-CP	**45K814**
			10 in	25 in		Lead Free Bronze	Rough Bronze	SW-75-EVBD-RF	**45K815**
			14 in	36 in		Lead Free Bronze	Chrome	CW-75-VBD	**45K816**
			10 in	25 in		Stainless Steel	Stainless Steel	ST-75-LF-ED	**45K823**
		9 gpm	10 in	28 in		Bronze	Chrome	THS-25-VBD-CP	**45K812**
			10 in	28 in		Bronze	Rough Bronze	THS-25-VBD-RF	**45K813**
Adjustable Spray Hose Nozzles									
½ in	FNPT		6 in	—	60° to 180°F	Rubber Cover, Stainless Steel Body	—	N-2-SS	**45K818**
			6 in	—		Bronze Body/Rubber Cover	—	N-2	**45K817**
Hoses									
¾ in	MNPT x Swivel FGHT		25 ft	—	60° to 180°F	EPDM and Steel Body/Brass Couplings	—	25 HDH	**45K820**
½ in			50 ft	—		EPDM and Steel Body/Brass Couplings	—	50 HDH	**45K821**
			75 ft	—		EPDM and Steel Body/Brass Couplings	—	75 HDH	**45K822**

45K810

45K817

Float Valves

Automatically open or close when liquid reaches a predetermined level. Can be used for filling control (close on level rise) or drainage control (open on level rise), in an open or closed tank, storage tanks, cooling towers, and reservoirs. NPT connection. Float is 304 stainless steel construction.

Type 7—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, or neoprene. Max. temp.: 125°F,

Type 27—Use for automatic control of liquid supply to an open tank, where dead-end closing is not essential and where valve pressures are normal. Max. temp.: 406°F.

Type 77—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, neoprene, or leather. Angle pattern will have a bottom inlet/side outlet. Max. temp.: 125°F.

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 7, Single Seat, Dead End Service							
½ in	6.5 gpm	130 psi	16 in	7 in	Bronze	**4PTV7**	**4PTV1**
¾ in	6.5 gpm	130 psi	16 in	7 in	Bronze	**4PTV8**	**4PTV2**
1 in	13 gpm	100 psi	16 in	7 in	Bronze	**4PTV9**	**4PTV3**
1 ¼ in	19 gpm	80 psi	16 in	7 in	Bronze	**4PTW1**	**4PTV4**
1 ½ in	30 gpm	65 psi	16 in	7 in	Bronze	**4PTW2**	**4PTV5**
2 in	61 gpm	50 psi	16 in	7 in	Iron	**4PTW3**	**4PTV6**

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 27, Double Seat							
½ in	1.5 gpm	150 psi	16 in	7 in	Bronze	**4PTX3**	**4PTW4**
½ in	9.1 gpm	150 psi	16 in	7 in	Bronze	—	**4PTW6**
¾ in	5.7 gpm	150 psi	16 in	7 in	Bronze	**4PTX4**	**4PTW5**
1 in	9.1 gpm	150 psi	16 in	7 in	Bronze	**4PTX5**	—
1 ¼ in	15 gpm	120 psi	16 in	7 in	Bronze	**4PTX6**	**4PTW7**
1 ½ in	22 gpm	100 psi	16 in	7 in	Bronze	**4PTX7**	**4PTW8**
2 in	53 gpm	75 psi	16 in	7 in	Iron	**4PTX8**	**4PTW9**
2 ½ in	64 gpm	60 psi	18 in	8 in	Iron	**4PTX9**	**4PTX1**
3 in	87 gpm	50 psi	18 in	8 in	Iron	**4PTY1**	**4PTX2**

4PTV1

4PTY2

Size	Valve Flow - Flow (1)	Max. Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
Type 77, Single Seat, Dead End Service							
2 in	61 gpm	250 psi	16 in	7 in	Iron	**4PTY5**	**4PTY2**
2 ½ in	95 gpm	250 psi	18 in	8 in	Iron	**4PTY6**	**4PTY3**
3 in	95 gpm	250 psi	18 in	8 in	Iron	**4PTY7**	—
3 in	133 gpm	250 psi	18 in	8 in	Iron	—	**4PTY4**

RMC™

30UN50

Brass and Lead-Free Brass Float Valves

- Max. temp.: 180°F

Feature an adjustable arm that allows you to adjust water to the desired level and are suitable for a variety of agricultural and industrial uses. 48RJ98, 48RJ99, 30UN54, 48RK01, 30UN55 are suitable for use in high turbulence applications such as in car washes and cooling towers.

Size	Connec. Type	Rod Thread	Body Material	Mounting	Max. Pressure (psi)	Valve Flow - Press. (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Press. (2) (psi)	Valve Flow - Flow (2) (gpm)	Item No.
⅜"	MNPT	¼ in -20	Brass	Bulkhead	125	65	11.5	85	13	**48RJ95** *
	MNPT	¼ in -20	Brass	Pipe	125	65	11.5	85	13	**48RJ89**
	MNPT	¼ in -20	Lead Free Brass	Pipe	125	65	11.5	85	13	**30UN50**
½"	MNPT	¼ in -20	Brass	Bulkhead	125	65	18	85	22	**48RJ93**
	MNPT	¼ in -20	Brass	Bulkhead	125	65	18	85	22	**48RJ96** *
	MNPT	¼ in -20	Brass	Pipe	125	65	18	85	22	**48RJ90**
½" NPT x ½" NPT	MNPT	¼ in -20	Lead Free Brass	Pipe	125	65	18	85	22	**30UN51**
¾"	MNPT	¼ in -20	Brass	Bulkhead	100	65	32.5	85	40	**48RJ94**
	MNPT	¼ in -20	Brass	Bulkhead	100	65	32.5	85	40	**48RJ97** *
	MNPT	¼ in -20	Brass	Pipe	100	65	32.5	85	40	**48RJ91**
	MNPT	¼ in -20	Brass/Plastic	Pipe	125	35	21	85	40	**23MJ93**
¾" NPT x ¾" NPT	MNPT	¼ in -20	Lead Free Brass	Pipe	100	35	21	85	40	**30UN52**
1"	MNPT	¼ in -20	Brass	Pipe	100	65	61	85	69	**48RJ92**
	MNPT	¼ in -20	Brass/Plastic	Pipe	100	35	44	85	69	**23MJ94**
1" NPT x 1" NPT	MNPT	¼ in -20	Lead Free Brass	Pipe	125	65	61	85	69	**30UN53**
1¼"	FNPT	⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RJ98**
1½"	FNPT	⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RJ99**
	FNPT	⅜ in -16	Lead Free Brass	Pipe	115	65	152	85	180	**30UN54**
2"	FNPT	⅜ in -16	Brass	Pipe	115	65	152	85	180	**48RK01**
	FNPT	⅜ in -16	Lead Free Brass	Pipe	115	65	152	85	180	**30UN55**

****Include locknut and gasket.***

2ZDN3

46A987

52WY27

WATTS REGULATOR

Bronze Float Valves

- Brass rod

These heavy-duty float valves are ideal for the reliable control of liquids in cooling towers, open tanks, reservoirs, or vats. Models feature a float arm that adjusts easily to control the water level. 52WY27 to 52WY54 include a float that can be set anywhere in a 360° circle around the valve body. 2ZDN3 to 2ZDN5 are bulkhead-mount and have a machined flange on inlet side with male straight pipe threading for locknut. 46A987 to 46A989 can be tank wall mounted.

Size	Rod Length	Rod Thread	Connec. Type	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Pressure (2) (psi)	Valve Flow - Flow (2) (gpm)	Brand	Item No.
Float Valve											
⅜"	10 in	¼ in -20	MNPT	125	180 °F	35	9	85	13	—	**471F70**
	10 in	¼ in -20	NPSM	165		50	14	100	21	Watts	**2ZDN3** *
½"	10 in	¼ in -20	MNPT	125		35	12	85	22	—	**471F71**
	10 in	¼ in -20	NPSM	165		50	20	100	31	Watts	**2ZDN4** *
¾"	10 in	¼ in -20	MNPT	100		35	21	85	40	—	**471F72**
	12 in	¼ in -20	NPSM	165		50	40	100	60	Watts	**2ZDN5** *
1"	12 in	¼ in -20	MNPT	100		35	44	85	69	—	**471F73**
1¼"	12 in	⅜ in -16	FNPT	150		35	112	85	180	—	**471F74**
1½"	12 in	⅜ in -16	FNPT	150		35	112	85	180	—	**471F75**
2"	12 in	⅜"-16	FNPT	150		35	112	85	180	—	**471F76**
Float Valve with Threaded Outlet											
⅜"	10 in	¼ in -20	NPSM	125	180 °F	50	14	100	21	Watts	**46A983**
½"	10 in	¼ in -20	MNPT	125		50	20	100	31	Watts	**46A984**
¾"	12 in	¼ in -20	NPSM	125		50	40	100	60	Watts	**46A985**
1"	12 in	¼ in -20	MNPT	125		50	100	100	150	Watts	**46A986**
Heavy Duty Float Valve											
1¼"	12 in	⅜ in -16	FNPT	165	180 °F	50	250	100	348	Watts	**46A987**
1½"	12 in	⅜ in -16	FNPT	165		50	250	100	348	Watts	**46A988**
2"	12 in	⅜ in -16	FNPT	165		50	250	100	348	Watts	**46A989**

Size	Float Size	Rod Length	Rod Thread	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Brand	Item No.
Angle Float Valve with Threaded Outlet									
½"	5 in	16 in	¼ in NPT	100	180 °F	60	30	—	**52WY27**
	5 in	16 in	¼ in NPT	100	450 °F		30	—	**52WY41**
¾"	5 in	16 in	¼ in NPT	100	180 °F		50	—	**52WY28**
	5 in	16 in	¼ in NPT	100	450 °F		50	—	**52WY42**
1"	6 in	18 in	¼ in NPT	100	180 °F		75	—	**52WY29**
	6 in	18 in	¼ in NPT	100	450 °F		75	—	**52WY43**
1¼"	6 in	18 in	¼ in NPT	100	180 °F		100	—	**52WY30**
	6 in	18 in	¼ in NPT	100	450 °F		100	—	**52WY44**
1½"	6 in	18 in	¼ in NPT	100	180 °F		125	—	**52WY31**
	6 in	18 in	¼ in NPT	100	450 °F		125	—	**52WY45**
2"	8 in	20 in	¼ in NPT	75	180 °F		175	—	**52WY32**
	8 in	20 in	¼ in NPT	75	450 °F		175	—	**52WY46**
3"	9 in	24 in	⅜ in NPT	75	180 °F		400	—	**52WY33**
	9 in	24 in	⅜ in NPT	75	450 °F		400	—	**52WY47**
Globe Float Valve with Threaded Outlet									
½"	5 in	16 in	¼ in NPT	100	180 °F	60	30	—	**52WY34**
	5 in	16 in	¼ in NPT	100	450 °F		30	—	**52WY48**
¾"	5 in	16 in	¼ in NPT	100	180 °F		50	—	**52WY35**
	5 in	16 in	¼ in NPT	100	450 °F		50	—	**52WY49**
1"	6 in	18 in	¼ in NPT	100	180 °F		75	—	**52WY36**
	6 in	18 in	¼ in NPT	100	450 °F		75	—	**52WY50**
1¼"	6 in	18 in	¼ in NPT	100	180 °F		100	—	**52WY37**
	6 in	18 in	¼ in NPT	100	450 °F		100	—	**52WY51**
1½"	6 in	18 in	¼ in NPT	100	180 °F		125	—	**52WY38**
	6 in	18 in	¼ in NPT	100	450 °F		125	—	**52WY52**
2"	8 in	20 in	¼ in NPT	75	180 °F		175	—	**52WY39**
	8 in	20 in	¼ in NPT	75	450 °F		175	—	**52WY53**
3"	9 in	24 in	⅜ in NPT	75	180 °F		400	—	**52WY40**
	9 in	24 in	⅜ in NPT	75	450 °F		400	—	**52WY54**

*** Include locknut and gasket.***

23MJ69

52WY60

RMC™

Stainless Steel Float Valves

- Stainless steel rod

High-capacity float valves are ideal for use with caustic fluids and in sanitary applications. Feature an adjustable short arm for customizing water level. Pipe mounting. Bob branded items are NSF compliant.

Size	Rod Thread	Connec. Type	Max. Pressure (psi)	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Valve Flow - Pressure (2) (psi)	Valve Flow - Flow (2) (gpm)	Brand	PTFE Seal Max. Temp.	PTFE Seal Item No.	Viton Seal Max. Temp.	Viton Seal Item No.
Float Valve												
⅜ in	¼ in -20	FNPT	85	35	38	85	58	Bob	550 °F	**23MJ74**	—	—
	¼"-20	FNPT			38		58	Bob	—	—	450 °F	**23MJ71**
½ in	¼ in -20	FNPT			38		58	Bob	550 °F	**23MJ72**	450 °F	**23MJ69**
¾ in		FNPT			38		58	Bob	550 °F	**23MJ73**	450 °F	**23MJ70**
		MNPT			38		58	Bob	550 °F	**23MJ76**	450 °F	**23MJ75**
1 in	⅜ in -16	FNPT			53		71	Bob	550 °F	**23MJ78**	450 °F	**23MJ77**
1 ½ in		FNPT	100		112		180	Bob	550 °F	**23MJ82**	450 °F	**23MJ79**
1 ¼ in		FNPT			112		180	Bob	550 °F	**23MJ83**	450 °F	**23MJ80**
2 in		FNPT			112		180	Bob	550 °F	**23MJ84**	450 °F	**23MJ81**

Size	Float Size	Rod Length	Rod Thread	Max. Pressure (psi)	Max. Temp.	Valve Flow - Pressure (1) (psi)	Valve Flow - Flow (1) (gpm)	Brand	PTFE Seal Item No.
Angle Float Valve with Threaded Outlet									
½ in	5 in	16 in	⅛ in NPT	100	450 °F	60	30	—	**52WY55**
¾ in			¼ in NPT	100			50	—	**52WY61**
1 in	6 in	18 in		100			75	—	**52WY62**
1 ½ in				100			100	—	**52WY63**
2 in	8 in	20 in	⅜ in NPT	75			175	—	**52WY64**
Globe Float Valve with Threaded Outlet									
½ in	5 in	16 in	⅛ in NPT	100	450 °F	60	30	—	**52WY60**
¾ in				100			50	—	**52WY56**
1 in	6 in	18 in	¼ in NPT	100			75	—	**52WY57**
1 ½ in				100			100	—	**52WY58**
2 in	8 in	20 in	⅜ in NPT	75			175	—	**52WY59**

PVC Float Valve Assemblies

- Max. pressure: 100 psi

BULKHEAD MOUNTING

MA models can be mounted vertically. M models have a 0.093" orifice with a free-flow outlet. Estimated flow rate of 1.3 gpm at 40 psi. Polyethylene float attached to valve.

BULKHEAD AND PIPE MOUNTING

Valves resist corrosion, have no diaphragms to clog, and are NSF-grade PVC. Seals are chemical-resistant, and hardware is 18-8 stainless steel to resist corrosion. Floats and rods sold separately on Grainger.com.

4DMD1

4DMD7

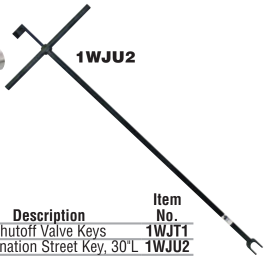
4DME5

Size	Length and Mounting Size	Connec. Type	Valve Flow - Pressure (1)	Valve Flow - Flow (1)	Mfr. Model	Item No.
Float Valve Kit, Bulkhead Mounting						
¼ in	6 7/10 in x 1 in	MNPT	40 psi	1.3 gpm	M2S2	**4DMD4**
¼ in	6 7/10 in x 1 in	Tube	40 psi	1.3 gpm	M252	**4DMC9**
¼ in	7½ in x 1 in	Tube	40 psi	1.3 gpm	MA252	**4DMD1**
⅜ in	6½ in x 1 in	MNPT	40 psi	1.3 gpm	MA3P2	**4DMD6**
⅜ in	6½ in x 1 in	MNPT	40 psi	1.3 gpm	M3P2	**4DMD5**
½ in	6 7/10 in x 1 in	MNPT	40 psi	1.3 gpm	M052	**4DMD2**
½ in	7½ in x 1 in	MNPT	40 psi	1.3 gpm	MA052	**4DMD3**
Float Valve with Threaded Outlet, Bulkhead Mounting						
⅜ in	—	MNPT	60 psi	7.2 gpm	PT3838187	**4DMD7**
½ in	—	MNPT	60 psi	12.5 gpm	PT050525	**4DMD8**
¾ in	—	MNPT	60 psi	17 gpm	PT75LS	**4DME3**
¾ in	—	MNPT	60 psi	37 gpm	PT75SS	**4DME1**
1 in	—	MNPT	60 psi	69 gpm	PT100SS	**4DME4**
Float Valve with Threaded Outlet, Pipe Mounting						
¾ in	—	MNPT	60 psi	17 gpm	PS75LS	**4DME2**
¾ in	—	MNPT	60 psi	37 gpm	PS75SS	**4DMD9**
1 ½ in	—	MNPT	50 psi	145 gpm	PS150SS	**4DME5**

Valve Stem and Street Keys

For use on water main valves. Steel construction. 1WJT1 is for use on ¼", 9/32", 5/16", and 11/32" square stems.

Water Key 1WJT1


1WJU2

Description	Item No.
Shutoff Valve Keys	**1WJT1**
Combination Street Key, 30"L	**1WJU2**

Hose Bibbs

QUARTER TURN AND LOOSE KEY

- Max. pressure: 125 psi CWP at 100°F, except 6GXC5 to 6GXC9 are 125 psi CWP
- Max. temp.: 180°F

Have chrome-plated brass ball, PTFE seats, and ¾" GHT connections. 6GXC5 to 6GXC9 meet NSF/ANSI 61-8, ANSI B1.20.1, B1.20.7, B16.18. 1APV8 is CSA Certified. 1APY1 meets ANSI/NSF 61-9.

VALVE LOCK

Protects hose bibbs from tampering and fits on most hose end valves. Zinc construction. Includes 2 keys and 1 serialized lock. For keyed-alike locks, call 1-800-GRAINGER (472-4643).

¼ Turn 6PDZ4

FaucetLock 6AJY0

Design	Inlet Type	Handle Material	Inlet Size ½ in Item No.	Inlet Size ¾ in Item No.
Quarter Turn				
No Kink	FNPT	Aluminum	**6PDZ5**	**6PDZ8**
No Kink	FNPT	Zinc	**1APY2**	—
No Kink	MNPT	Zinc	—	**1APY1**
No Kink	Solder Cup or MNPT	Aluminum	**6PDZ6**	**6PDZ9**
Standard	MNPT	Aluminum	—	**1APV8**
Standard	Solder Cup or MNPT	Aluminum	**6PDZ4**	**6PDZ7**
Standard	Solder Cup or MNPT	Zinc	**1APV7**	—
Loose Key				
No Kink	FNPT	Chrome Plated	**6GXC7**	**6GXC8**
No Kink	MIP X MHT	Chrome Plated	—	**6GXC5**
No Kink	MNPT	Chrome Plated	**6GXC9**	—

Description	Temp. Range	Size: ¾ in Item No.
Valve Lock		
For Use with All Standard Thread Hoses	-20° to 203°F	**6AJY0**

1RLT9

1RLT7

1RLT3

Radiator Valves

- Max. pressure: 60 psi nonshock CWP; 15 psi SWP
- Temp. range: -40° to 350°F

For use in low-pressure steam or circulated hot water systems. Heavy-duty brass construction; threaded tailpiece. Angle and straight valves have heat-resistant handwheel.

Pipe Size	Material	Body Style	Item No.
Elbow and Tailpiece			
½ in	Brass	Elbow	**1RLT9**
¾ in	Forged Brass	Elbow	**1RLU1**
1 in	Brass	Elbow	**1RLU2**
Hot Water and Steam Boiler Radiator Valve			
½ in	Bronze	Angle	**1RLT2**
½ in	Forged Brass	Angle	**1RLT7**
¾ in	Bronze	Angle	**1RLT3**
¾ in	Forged Brass	Angle	**1RLT8**
1 in	Bronze	Angle	**1RLT4**
1 ¼ in	Bronze	Angle	**1RLT5**
1 ½ in	Bronze	Angle	**1RLT6**

Heavy-Duty Float Balls

Copper—For use in water applications and open tank. Not for pressurized or high-temperature applications. Operating temp.: 50° to 180°F.

Plastic—Nonelectrolytic floats are highly corrosion-resistant. All injection-molded, polyethylene construction resists sunlight deterioration. 2ZDU6 and 2ZDU7 have 2 float balls attached together.

Polyethylene—Resist corrosion and sunlight deterioration. 4DMF5 to 4DMF9 are suitable for open tank service. 46C005 is unaffected by salts and caustic fluids. All models have a 100°F max. liquid temp., except 46C005 is 140°F.

Stainless Steel—Resist corrosion. Suitable for open and closed tank use, and high-pressure and high-temperature applications. Operating temp.: -30° to 225°F.

Size	Connection	Thread Size	Brand	Item No.
Round				
Copper				
3 in Dia.	External	¼"-20	Naugatuck	**4LTN1**
4 in Dia.	Internal	¼"-20	Watts	**2ZDT6**
4 in Dia.	External	¼"-20	Naugatuck	**4LTN4**
5 in Dia.	Internal	¼"-20	Watts	**2ZDT7**
5 in Dia.	External	¼ in	Naugatuck	**4LTN7**
5 in Dia.	External	¼"-20	Naugatuck	**4LTN6**
6 in Dia.	Internal	¼"-20	Watts	**4UV75**
6 in Dia.	Internal	¼"-20	GA	**3FXE4**
6 in Dia.	Internal	5/16"-18	Watts	**2ZDT8**
6 in Dia.	Internal	⅜"-16	Watts	**2ZDT9**
6 in Dia.	External	¼"-20	Naugatuck	**4LTN8**
6 in Dia.	External	5/16"-18	Naugatuck	**4LTN9**
7 in Dia.	Internal	¼"-20	GA	**3FXF2**
7 in Dia.	Internal	5/16"-18	Watts	**2ZDU1**
7 in Dia.	External	5/16"-18	Naugatuck	**4LTP1**
7 in Dia.	External	⅜ in	Naugatuck	**4LTP2**
8 in Dia.	Internal	⅜"-16	Watts	**4UV76**
8 in Dia.	External	⅜ in	Naugatuck	**4LTP4**
8 in Dia.	External	⅜"-16	Naugatuck	**4LTP3**
9 in Dia.	External	⅜ in	Naugatuck	**4LTP5**
10 in Dia.	Internal	⅜"-16	Watts	**4UV71**
10 in Dia.	External	⅜"-16	Naugatuck	**4LTP6**
10 in Dia.	External	⅜ in	Naugatuck	**4LTP7**
12 in Dia.	Internal	⅜"-16	Watts	**4UV72**
12 in Dia.	External	⅜ in	Naugatuck	**4LTP8**
Plastic				
5 in Dia.	Internal	¼"-20	GA	**3FXE8**
5 in Dia.	Internal	¼"-20	Bob	**453U35**
6 in Dia.	Internal	¼"-20	GA	**3FXE2**
6 in Dia.	Internal	¼"-20	Watts	**4UV73**
6 in Dia.	Internal	¼"-20	Bob	**453U36**
6 in Dia.	Internal	5/16"-18	Watts	**2ZDU3**
6 in Dia.	Internal	⅜"-16	Watts	**2ZDU6** *
8 in Dia.	Internal	¼"-20	Watts	**2ZDU5**
8 in Dia.	Internal	¼"-20	Bob	**453U37**
8 in Dia.	Internal	5/16"-18	Watts	**2ZDU4**
8 in Dia.	Internal	⅜"-16	Watts	**2ZDU7** *†
8 in Dia.	Internal	⅜"-16	Watts	**4UV74** †
8 in Dia.	Internal	⅜"-16	GA	**3FXE3**

Size	Connection	Thread Size	Brand	Item No.
Polyethylene				
6 in Dia.	Internal	¼"-20	Kerick	**4DMF8**
8 in Dia.	Internal	5/16"-18	Kerick	**4DMF9**
Stainless Steel				
2 in Dia.	Internal	¼"-20	Naugatuck	**4LTG6**
2 ¼ in Dia.	Internal	¼"-20	Naugatuck	**4LTH5**
3 in Dia.	Tubed	—	Naugatuck	**4LTJ5**
3 in Dia.	Internal	¼"-20	Naugatuck	**4LTH8**
3 ½ in Dia.	Internal	¼"-20	Naugatuck	**4LTH9**
3 ½ in Dia.	External	¼"-20	Naugatuck	**4LTC1**
4 in Dia.	Tubed	—	Naugatuck	**4LTJ7**
4 in Dia.	Internal	¼"-20	Naugatuck	**4LTJ1**
5 in Dia.	Tubed	—	Naugatuck	**4LTK3**
5 in Dia.	Internal	¼"-20	Naugatuck	**4LTJ2**
5 in Dia.	External	¼ in	Naugatuck	**4LTC6**
5 in Dia.	External	¼"-20	Naugatuck	**4LTC7**
6 in Dia.	Tubed	—	Naugatuck	**4LTK6**
6 in Dia.	Internal	¼"-20	Naugatuck	**415D16**
6 in Dia.	External	¼ in	Naugatuck	**4LTC8**
6 in Dia.	External	¼"-20	Naugatuck	**4LTC9**
7 in Dia.	Tubed	—	Naugatuck	**4LTL1**
7 in Dia.	External	⅜ in	Naugatuck	**4LTD2** †
7 in Dia.	External	⅜ in	Naugatuck	**4LTD5** †
8 in Dia.	Tubed	⅜ in	Naugatuck	**4LTL2**
8 in Dia.	Internal	⅜"-16	Naugatuck	**415D17**
8 in Dia.	External	¼ in	Naugatuck	**4LTE3**
8 in Dia.	External	⅜ in	Naugatuck	**4LTE4**
8 in Dia.	External	⅜"-16	Naugatuck	**4LTE5**
8 in Dia.	External	½ in	Naugatuck	**4LTE6**
10 in Dia.	Internal	⅜"-16	Naugatuck	**415D18**
10 in Dia.	External	⅜ in	Naugatuck	**4LTF5**
10 in Dia.	External	⅜"-16	Naugatuck	**4LTF8**

Round, Plastic 2ZDU3

Rectangle, Polyethylene 4DMF5

Size	Connection	Thread Size	Brand	Item No.
Oblong				
Copper				
3 in Dia. x 7 in L	External	¼"-20	Naugatuck	**4LTA5**
4 in Dia. x 5 in L	Internal	¼"-20	Watts	**2ZDT5**
4 in Dia. x 7 in L	External	¼"-20	Naugatuck	**4LTA7**
Plastic				
4 in Dia. x 5 in L	Internal	¼"-20	Watts	**2ZDU2**
4 in Dia. x 5 in L	Internal	¼"-20	Bob	**453U34**
Polyethylene				
4 in Dia. x 5 in L	Internal	¼"-20	Kerick	**4DMF7**
4 in Dia. x 5 in L	Internal	⅜ in and ¼ in	Watts	**46C005**
Stainless Steel				
4 in Dia. x 5 in L	Internal	¼"-20	Naugatuck	**415D14**
4 in Dia. x 5 in L	Internal	⅜"-16	Naugatuck	**415D15**
4 in Dia. x 5 in L	External	¼"-20	Naugatuck	**4LRZ7**
4 in Dia. x 6 in L	External	¼"-20	Naugatuck	**4LRZ8**
4 in Dia. x 6 in L	External	⅜"-16	Naugatuck	**4LTA3**
4 in Dia. x 7 in L	External	¼"-20	Naugatuck	**4LRZ9**
5 in Dia. x 7 in L	External	¼"-20	Naugatuck	**4LTA1**
5 in Dia. x 7 in L	External	⅜"-16	Naugatuck	**4LTA2**
Square				
Polyethylene				
4 inH x 4 in L	Internal	¼"-20	Kerick	**4DMF6**
Rectangle				
Polyethylene				
2 inH x 4 in L	Internal	¼"-20	Kerick	**4DMF5**

** Double-float assembly. † 2ZDU7 is 3.27 oz., 4UV74 is 0.10 oz., 4LTD2 is 38.08 oz., 4LTD5 is 23.52 oz.*

Float Mat.	Rod Mat.	Float Size	Rod L	Valve Flow - Flow (1)	Valve Flow - Pressure (1)	Valve Flow - Flow (2)	Valve Flow - Pressure (2)	Brand	Item No.
Float Valve Kit									
Polyethylene	Brass	3 11/16 in	5 ¾ in	1.3 gpm	35 psi	2.3 gpm	85 psi	Bobby	**453U33**

2ZWN4

6CHV0

Roof and Yard Hydrants

- Outlet size: ¾" hose

Campbell, Frost Proof, Lead Free Yard Hydrants—Self-draining to prevent riser pipe and hydrant head freeze-up. Solid bucket hook and oversized head and handle with snap lock, 1-pc. Buna N plunger, handle-to-head padlock locators, and 7⁄16" steel rod in 1" galvanized riser pipe.

Woodford, Iowa Frost Proof Yard Hydrants—Water flows even in subzero temps. and drains when water is shut off and hose removed. Large nitrate plunger for positive shutoff. Graphite packing. Adjustable lever lock tension. ⅜" galvanized steel pipe operating rod, and 1" galvanized steel pipe casing.

Inlet Size	Bury Depth	Overall Length	Rod Dia.	Max. Pressure	Max. Temp.	Mfr. Model	Item No.
Campbell, Frost Proof, Lead Free Yard Hydrants							
¾ in FNPT	2 ft	57 in	7⁄16 in	60 psi	—	YH-2LF	**2ZWN4**
	3 ft	69 in	7⁄16 in	60 psi	—	YH-3LF	**2ZWN5**
	4 ft	81 in	7⁄16 in	60 psi	—	YH-4LF	**2ZWN6**
Woodford, Iowa Frost Proof Yard Hydrants							
¾ in FNPT	2 ft	60 ½ in	7⁄16 in	125 psi	120 °F	Y34-2	**6CHV0**
	3 ft	72 ½ in	⅜ in	125 psi	120 °F	Y34-3	**6CHV1**
	4 ft	84 ½ in	⅜ in	125 psi	120 °F	Y34-4	**6CHV2**
	5 ft	96 ½ in	⅜ in	125 psi	120 °F	Y34-5	**6CHV3**
	6 ft	108 ½ in	⅜ in	125 psi	120 °F	Y34-6	**6CHV4**

Inlet Size	Overall Length	Rod Dia.	Max. Pressure	Max. Temp.	Mfr. Model	Item No.
Woodford, Frost Proof Roof Hydrants						
1 in FNPT	48 ½ in	⅜ in	125 psi	120 °F	RHY2-1-MS	**6CHX9**

Woodford, Frost Proof Roof Hydrant—Provides water for most types of roof equipment even in subzero temperatures. Hydrant drains when water is shut off, even with hose attached. Must be piped to drain location. Large nitrate plunger for positive shutoff. Graphite packing. Adjustable lever lock tension. Includes cast-iron roof support, flanges, mounting bolts, nuts, and washers. EPDM well seal boot seals tight between the hydrant support and hydrant pipe. Meets ASSE 1052.

Description	For Use With	Includes	Mfr. Model	Item No.
Woodford, Accessory				
Repair Kit	Mfr. Y34-2, Y34-3, Y34-4, Y34-5, Y34-6	Packing 10101, Packing Nut 10100, Plunger 10105, Rod Stem 10104, Support Washer 10102	RK-Y34	**6CHV5**

Backflow Protected Freezeless Wall Hydrants

6CHX1

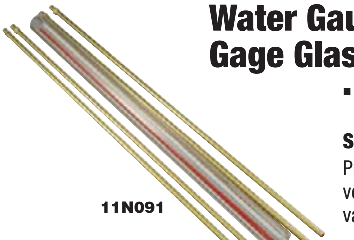
- Max. pressure: 125 psi
- Max. temp.: 120°F

Commercial-grade wall hydrants are antisiphon vacuum breaker protected, and drain when shut off, even if hose is still attached. A 1-pc. valve plunger accurately controls both flow and drainage without the need for additional adjustments. Chrome-plated brass and copper construction. Solid brass operating rod. Hardened stainless steel stem resists damage. ¾" male hose thread. ¾" FPT pipe connection. Include tee to operate hydrant. 6CHX1 to 6CHX3 and 6CHX5 come with a chrome-plated brass box. All hydrants meet ASSE 1019 Type B, IAPMO listed.

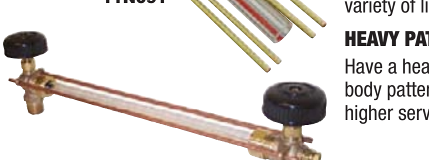
Wall Thickness	Recommended Wall Opening	Mfr. Model	Item No.
Frostproof Wall Hydrant			
8 in	2 in x 3⅞ in	65P-8	**6CHW7**
10 in	2 in x 3⅞ in	65P-10	**6CHW8**
12 in	2 in x 3⅞ in	65P-12	**6CHW9**
14 in	2 in x 3⅞ in	65P-14	**6CHX0**
Close Coupled	2 in x 3⅞ in	65P-CC	**6CHX4**
Frostproof Enclosed Wall Hydrant			
8 in	5½ in x 6½ in	B65P-8	**6CHX1**
12 in	5½ in x 6½ in	B65P-12	**6CHX2**
14 in	5¾ in x 6⅝ in	B65P-14	**6CHX3**
Enclosed Wall Hydrant			
Close Coupled	5½ in x 6½ in	B65P-CC	**6CHX5**

Description	For Use With	Includes	Mfr. Model	Item No.
Accessories				
Tee Key 5⁄16"	65P-CC, B65P-12, B65P-14, B65P-8, B65P-CC, 65P-14	Tee Key 50010	50010 TEE KEY	**6CHX8**
Stem Lock	Woodford Models 65 and 67	(2) Keys, Cylinder Lock, Locking Nut, Tee Key	SL-65	**6CHZ0**
Repair Kit	Woodford Model 60/65/67 Chrome Commercial Wall Hydrants	C Washer 50251, Head Nut 50264, Plunger 50250, Stem Screw 55062, Stem Washer 50252, Tee Key 50009, Yoke Nut 51014	RK-65	**6CHY5**

Water Gauges and Tubular Gage Glass and Rod Kits



11N091



2EET2

- Water gauges: MNPT connection

STANDARD PATTERN

Provide liquid level verification for a wide variety of liquids.

HEAVY PATTERN

Have a heavier valve body pattern for higher service ratings.

AUTOMATIC

Ball checks restrain fluids in the event that the glass should break. 2EEU3 is CRN Registered.

TUBULAR GAGE GLASS AND ROD KITS

- Max. pressure: 400 psi
- Max. temp.: 300°

For use with gagecocks where liquid level monitoring is required. Red Line Glass allows easy viewing of fluid. Each kit includes 4 bronze rod guards and 1 borosilicate glass tube. Can be used with a variety of fluids in chemical, petrochemical, and processing applications. Meet ASME standards and boiler codes.

Center to Center Length	Plain Glass Rod Kit ⅝ in Item No.	Plain Glass Rod Kit ¾ in Item No.	Red Line Glass Rod Kit ⅝ in Item No.	Red Line Glass Rod Kit ¾ in Item No.
Tubular Gage Glass and Rod Kits, Penberthy				
8 in	**11N041**	**11N021**	**11N080**	**11N061**
9 in	**11N042**	**11N022**	**11N081**	**11N062**
10 in	**11N043**	**11N023**	**11N082**	**11N063**
11 in	**11N044**	**11N024**	**11N083**	**11N064**
12 in	**11N045**	**11N025**	**11N084**	**11N065**
13 in	**11N046**	**11N026**	**11N085**	**11N066**
14 in	**11N047**	**11N027**	**11N086**	**11N067**
15 in	**11N048**	**11N028**	**11N087**	**11N068**
16 in	**11N049**	**11N029**	**11N088**	**11N069**
17 in	**11N050**	**11N030**	—	—
18 in	**11N051**	**11N031**	**11N089**	**11N070**
20 in	**11N052**	**11N032**	**11N090**	**11N071**
22 in	**11N053**	—	—	—
24 in	—	**11N033**	**11N091**	**11N072**
26 in	**11N054**	**11N034**	**11N092**	**11N073**
30 in	**11N055**	**11N035**	**11N093**	**11N074**
36 in	**11N056**	**11N036**	**11N094**	**11N075**
38 in	**11N057**	**11N037**	**11N095**	**11N076**
40 in	**11N058**	**11N038**	**11N096**	**11N077**
42 in	**11N059**	**11N039**	**11N097**	**11N078**
48 in	**11N060**	**11N040**	**11N098**	**11N079**

Pipe Size	Body Material	Max. Pressure†	Max. Temp.†	Glass Tube O.D.	Glass Length	No. of Guard Rods	Center to Center Length	Includes	Gaskets	Stem Packing	Brand	Item No.
Standard Pattern Water Gauges												
⅜ in	Bronze	300 psig	350 °F	⅝ in	10 in	2	11 ¼ in	Needle Drain Valve	EPDM	—	Apollo	**2EER7** *
	Bronze	300 psig	350 °F	⅝ in	10 in	2	11 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET1**
½ in	Bronze	125 psig	350 °F	⅝ in	12 in	2	13 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET2**
	Bronze	125 psig	350 °F	⅝ in	12 in	2	13 ¼ in	Ball Check Valves, Needle Drain Valve	EPDM	TFE	Apollo	**2EET4** **
	Bronze	125 psig	350 °F	⅝ in	12 in	2	13 ¼ in	Ball Check Valves, Needle Drain Valve	EPDM	TFE	Apollo	**2EET5** ††
	Bronze	125 psig	350 °F	⅝ in	12 in	2	13 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET3** ††
	Bronze	300 psig	350 °F	⅝ in	12 in	2	13 ¼ in	Needle Drain Valve	EPDM	—	Apollo	**2EER8** *
	Stainless Steel	250 psig	406 °F	⅝ in	12 in	2	14 in	Drain Valve, Shut-off Valve	TFE with Hypalon	TFE	Apollo	**2EER9** * **
	Stainless Steel	500 psig	450 °F	⅝ in	12 in	4	14 in	Drain Valve with Safety Handle	TFE with Hypalon	PTFE with ARAMID	Apollo	**2EEV4** **
Heavy Pattern Water Gauges												
½ in	Bronze	200 psig	400 °F	⅝ in	12 in	2	13 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET6** **
	Bronze	200 psig	400 °F	⅝ in	12 in	2	13 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET7** ††
	Bronze	200 psig	400 °F	⅝ in	12 in	2	13 ¼ in	Ball Check Valves	EPDM	TFE	Apollo	**2EEU1** **
	Bronze	200 psig	400 °F	⅝ in	12 in	2	13 ¼ in	Ball Check Valves	EPDM	TFE	Apollo	**2EEU2** ††
¾ in	Bronze	200 psig	400 °F	¾ in	16 in	2	17 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET8** **
	Bronze	200 psig	400 °F	¾ in	16 in	2	17 ¼ in	Needle Drain Valve	EPDM	TFE	Apollo	**2EET9** ††
Automatic Water Gauges												
½ in	Bronze	400 psig	400 °F	⅝ in	12 in	4	14 in	Ball Check, Needle Drain Valve in Lower Arm	EPDM	TFE	Apollo	**2EEU5**
	Bronze	400 psig	400 °F	⅝ in	12 in	4	14 in	Needle Drain Valve in Lower Arm	EPDM	PTFE with Hypalon	Apollo	**2EEU7** **
	Bronze	400 psig	400 °F	⅝ in	12 in	4	14 in	Needle Drain Valve in Lower Arm	EPDM	PTFE with Hypalon	Apollo	**2EEU8** ††
	Bronze	500 psig	400 °F	⅝ in	12 in	4	14 in	Ball Checks in Upper and Lower Arms	TFE with Hypalon	PTFE with ARAMID	Apollo	**2EEU3**
	Bronze	500 psig	400 °F	⅝ in	12 in	4	14 in	Ball Checks in Upper and Lower Arms	TFE with Hypalon	PTFE with ARAMID	Apollo	**2EEU4** ††
	Stainless Steel	500 psig	450 °F	⅝ in	12 in	4	14 in	Ball Drain Valve with Safety Handle	TFE with Hypalon	PTFE with ARAMID	Apollo	**2EEV5** ††

** Expansion tank gauge. † Pressure/temp. ratings are subject to the limitation of gauge glass length. ** Aluminum wheel. †† Plastic composition wheel.*

11N015

PENBERTHY

Straight Pattern Gagecocks

- -20° to 500°F
- ⅜" FNPT drain connection
- MNPT vessel connection
- Sold in pairs

For use where liquid level monitoring is required (use with Tubular Gage Glass and Rod Kits sold on page 2912). Gagecocks have an automatic ball-check shutoff that helps prevent rapid loss of fluid from accidental glass breakage. Needle drain valve, integral bonnet, and drain cock construction. Rigid vessel and stuffing box gage connections. 3½" max. height. For use with a variety of fluids in heavy/light industrial, municipal, petrochemical, and utility applications. Meet ASTM.

Gauge Connection	Vessel Connection Size	Max. Pressure	Handle Material	Body Material	Item No.
⅝ in OD Glass	½ in	200 psi @ 100°F	Steel	Bronze	**11N015**
		490 psi @ 100°F	Steel	Steel	**11N017**
		500 psi @ 100°F	Stainless Steel	Stainless Steel	**11N019**
¾ in OD Glass	¾ in	400 psi @ 100°F	Steel	Bronze	**11N016**
		490 psi @ 100°F	Steel	Steel	**11N018**
		500 psi @ 100°F	Stainless Steel	Stainless Steel	**11N020**

39E373

39E381

PLAST-O-MATIC VALVES, INC.

Gauge Guards

- Max. pressure: 250 psi
- Vacuum pressure: 30" HG
- Accuracy: ±3%

Protect pressure or vacuum instruments and help reduce instrument failures and system down time. Feature a durable and flexible diaphragm that serves as a protective barrier between the process fluid and instrument. FNPT connection.

Gauge Port (F) NPT (in.)	Diaphragm Material	Max. Temp.	Item No.
PVC Body			
¼ in	PTFE	140°F	**39E373**
	Viton	140°F	**39E374**
½ in	PTFE	140°F	**39E375**
	Viton	140°F	**39E376**
Polypropylene Body			
¼ in	Buna-N	180°F	**39E381**
	PTFE	180°F	**39E377**
	Viton	180°F	**39E378**
	Viton	180°F	**39E382**
½ in	PTFE	180°F	**39E379**
	Viton	180°F	**39E380**

Dwyer®

Sight Flow Indicators

21XL59

- Max. pressure: 125 psig
- Temp. range: 32° to 200°F

Feature a rotating impeller and removable tempered glass window to ease maintenance. Buna-N and fiber seals. FNPT connections.

Pipe Size	Sight Dia.	Overall Length	Bronze Body Item No.
Single Window			
¼ in	1 21/32 in	3 in	**21XL59**
⅜ in	1 21/32 in	3 in	**21XL60**
½ in	2 1/32 in	4 in	**21XL61**
¾ in	2 1/32 in	4 in	**21XL62**
1 in	2 1/32 in	4 ⅜ in	**21XL63**
1 ¼ in	2 1/32 in	4 ⅜ in	**21XL64**
1 ½ in	2 15/16 in	5 11/16 in	**21XL65**
2 in	2 15/16 in	5 11/16 in	**21XL66**

Pipe Size	Sight Dia.	Overall Length	Bronze Body Item No.	316 Stainless Steel Body Item No.
Double Window				
¼ in	1 21/32 in	3 in	**21XL67**	**21XL75**
⅜ in	1 21/32 in	3 in	**21XL68**	**21XL76**
½ in	2 1/32 in	4 in	**21XL69**	**21XL77**
¾ in	2 1/32 in	4 in	**21XL70**	**21XL78**
1 in	2 1/32 in	4 ⅜ in	**21XL71**	**21XL79**
1 ¼ in	2 1/32 in	4 ⅜ in	**21XL72**	**21XL80**
1 ½ in	2 15/16 in	5 11/16 in	**21XL73**	**21XL81**
2 in	2 15/16 in	5 11/16 in	**21XL74**	**21XL82**

Lead-Free Water Hammer Arrestors

WATTS REGULATOR

- Max. pressure: 150 psi
- Temp. range: 33° to 180°F

Control water pressure shock and prevent water hammer conditions. Install in new or existing plumbing systems at any angle. Ideal in dishwashers, clothes washers, and quick-closing faucets. Certified for use in potable water applications. 11Y819 to 11Y822 are IAPMO Listed.

26X569

26X570

Pipe Size	Connec. Type	Dia.	Overall Height	Mfr. Model	Item No.
½ in	MNPT	1 ⅛ in	5 15/16 in	LF15M2-A	**26X569**
	MNPT	4 13/32 in	4 5/16 in	LF150A	**26X567**
¾ in x ¾ in x ½ in	GHT x GHT X NPT	1 ¼ in	4 5/16 in	LF150HA	**26X568**
¾ in	MNPT	1 ⅜ in	8 9/16 in	¾ LF15M2-B	**11Y819**
1 in	MNPT	1 ⅝ in	8 13/16 in	1 LF15M2-C	**11Y820**
	MNPT	2 ⅝ in	11 5/32 in	LF15M2-F	**26X570**
	MNPT	2 ⅛ in	9 15/16 in	1 LF15M2-D	**11Y821**
	MNPT	2 ⅛ in	12 11/16 in	1 LF15M2-E	**11Y822**

Parker EATON

Brass Saddle Valves and Needle Valves

4GU27

6MM66

SADDLE VALVES

- Temp. range: -30° to 250°F

Provide a water supply for humidifiers, refrigerators, automatic ice makers, and similar applications. Valves come complete with fittings for ¼" O.D. copper tubing or ¼" O.D. plastic tubing, brass tubing inserts, and instructions. Brass valve, stainless steel pin.

Self-Piercing—Easily installed on ⅜" to 1⅜" O.D. copper tubing. Not for iron pipe.

Self-Piercing Kit—Quick and easy to use. Includes 25 ft. of ¼" O.D. polyethylene tubing, saddle valve, and brass adapters and inserts.

Nonself-Piercing—Installed on ½" or ¾" galvanized water pipe by drilling ¼" hole in pipe, installing pilot tube, and tightening.

NEEDLE VALVES

- Max. pressure: 150 psi
- Temp. range: 0° to 250°F, except Parker brand valves are -45° to 250°F

For use in hydraulic and pneumatic systems. Designed for automotive and industrial applications. Standard style, brass construction with steel handles. Valves come complete with nuts and sleeves. Parker brand valves feature metal-to-metal seats with fine thread screw down.

Description	Brand	Item No.
Saddle Valves		
Self-Piercing Saddle Valve	—	**4GU27**
Nonself-Piercing Saddle Valve	—	**4GU26**

Tube Size	Connection	Max. Height	L	Brand	Item No.
Needle Valves, Straight					
¼ in	Compression to Compression	1 ½ in	1 13/32 in	Parker	**21VL55**
⅜ in	Compression x Compression	1 5/16 in	1 ½ in	Eaton	**1VPV2**
¼ in	Female Pipe to Male Pipe	1 ⅜ in	1 9/16 in	Parker	**21VL63**

Pipe Size	Fitting Style	Connection	Max. Height	L	Brand	Item No.
Needle Valves						
⅛ in x ¼ in	Angled	Compression to Male Pipe	1 ½ in	1 35/64 in	Parker	**21VL52**
	Angled	Compression x MNPT	1 13/16 in	13/16 in	—	**6MM63**
	Straight	Compression to Male Pipe	1 ½ in	1 13/32 in	Parker	**21VL57**
	Straight	Compression x MNPT	1 ½ in	1 ½ in	—	**6MM61**
⅛ in	Straight	Female Pipe to Female Pipe	1 ½ in	1 11/32 in	Parker	**21VL64**
	Straight	FNPT x FNPT	1 39/64 in	1 ¼ in	—	**6MN29**
	Straight	FNPT x MNPT	1 5/16 in	1 ¼ in	—	**6MN31**
	Straight	FNPT x MNPT	1 ½ in	1 23/64 in	Parker	**21VL62**
	Straight	Male Pipe to Male Pipe	1 ½ in	1 11/32 in	Parker	**21VL60**
¼ in x ⅛ in	Angled	Flare to Male Pipe	1 ½ in	1 37/64 in	Parker	**21VL46**
¼ in	Angled	Compression to Male Pipe	1 ⅜ in	1 51/64 in	Parker	**21VL53**
	Straight	Compression to Male Pipe	1 ½ in	1 13/32 in	Parker	**21VL58**
	Straight	Compression x MNPT	1 13/32 in	1 39/64 in	—	**6MM62**
	Straight	Double Compression	1 5/16 in	1 13/16 in	—	**6MM66**
	Straight	Female Pipe to Female Pipe	1 ⅜ in	1 17/32 in	Parker	**21VL65**
	Straight	Flare to Flare	1 ½ in	1 11/32 in	Parker	**21VL48**
	Straight	Flare to Male Pipe	1 ½ in	1 21/64 in	Parker	**21VL50**
	Straight	FNPT x FNPT	1 13/16 in	1 53/64 in	—	**6MN30**
	Straight	FNPT x MNPT	1 55/64 in	1 ⅞ in	—	**6MN32**
	Straight	Male Pipe to Male Pipe	1 ⅜ in	1 35/64 in	Parker	**21VL61**
	Straight	MNPT	1 15/64 in	1 ⅝ in	Eaton	**1VPW3**
⅜ in x ¼ in	Angled	Flare to Male Pipe	1 ⅜ in	1 55/64 in	Parker	**21VL47**
⅜ in	Angled	Compression to Male Pipe	1 ⅜ in	1 23/32 in	Parker	**21VL54**
	Straight	Compression to Compression	1 ⅜ in	1 35/64 in	Parker	**21VL56**
	Straight	Compression to Male Pipe	1 ⅜ in	1 9/16 in	Parker	**21VL59**

1VPY3

6D910

ANDERSON FITTINGS

Seat Drain Cocks

All feature sturdy brass construction.

INTERNAL SEAT POSITION

Designed for automotive or industrial use. Not intended for natural gas, LPG, or nuclear applications.

EXTERNAL SEAT POSITION

Used on air compressor receivers, condensate separators, radiators, and many other similar applications.

MNPT X HOSE, 1VPY5 TO 1VPZ1

Angled body style and ideal for venting or draining air and water.

ANGLE BODY STYLE

Designed for automotive and similar industrial water-handling applications. Hand tighten for leak-free connection.

Seat Position	Pipe Size	Connec. Type	Max. Pressure	Temp. Range	Overall Height	Item No.
Angle Body Style						
Internal	1/8 in	MNPT	150 psi	-65° to 250°F	1 1/8 in	**1VPY3**
	1/4 in	MNPT	150 psi	-65° to 250°F	1 3/4 in	**1VPY4**
	3/8 in	MNPT x Hose	150 psi	-65° to 250°F	2 15/16 in	**1VPY7**
		MNPT x Hose	150 psi	-65° to 250°F	2 7/8 in	**1VPY5**
		MNPT x Hose	150 psi	-65° to 250°F	2 7/8 in	**1VPY6**
		MNPT x Hose	150 psi	-65° to 250°F	2 15/16 in	**1VPY8**
		MNPT x Hose	150 psi	-65° to 250°F	3 in	**1VPY9**
	1/2 in	MNPT x Hose	150 psi	-65° to 250°F	3 1/8 in	**1VPZ1**
Inline Body Style						
External	1/8 in	MNPT	200 psi	0° to 200°F	7/8 in	**6D909**
	1/4 in	MNPT	150 psi	-65° to 250°F	1 9/16 in	**1VPX5**
		MNPT	200 psi	0° to 200°F	1 in	**6D910**
	3/8 in	MNPT	200 psi	0° to 200°F	1 5/16 in	**6D911**
	1/2 in	MNPT	200 psi	0° to 200°F	1 1/2 in	**6D912**
Internal	1/8 in	MNPT	150 psi	-65° to 250°F	1 5/8 in	**1VPY2**
		MNPT	150 psi	-65° to 250°F	1 5/32 in	**1VPX6**
	1/4 in	MNPT	150 psi	-65° to 250°F	1 5/16 in	**1VPX7**
	3/8 in	MNPT	150 psi	-65° to 250°F	1 11/32 in	**1VPX9**
Long Inline Body Style						
Internal	1/8 in	MNPT	150 psi	-65° to 250°F	1 3/4 in	**1VPY1**
Straight Body Style						
Internal	1/4 in	MNPT	150 psi	-65° to 250°F	1 9/16 in	**1VPZ2**

Lever Handle 2EEY6

Tee Handle 2EEW6

Flat Head Handle 2EEX6

Apollo Valves

Bronze Gas Cocks

- Temp. range: 32° to 125°F

Valves are designed for shutoff service in residential and commercial applications to isolate gas appliances. Can be used with natural and manufactured gases. Accepted for use in New York Department of Buildings MEA 45-90-M.

0.5 PSIG

Meet ANSI Z21.15.CSA 9.1 requirements of 1/2 psig.

Pipe Size	Overall Length	Connec. Type	BtuH	Max. Pressure 200 psig Item No.	Max. Pressure 0.5 psig Item No.
Lever Handle					
1/8 in x 1/8 in	1 9/16 in	FNPT x MNPT	—	**2EEY6**	—
1/4 in x 1/4 in	1 9/16 in	FNPT x MNPT	—	**2EEY7**	—
3/8 in x 3/8 in	2 3/16 in	FNPT x SAE	56,500	—	**2EEZ1**
3/8 in x 3/8 in	2 9/32 in	FNPT x MNPT	—	**2EEY8**	—
3/8 in x 1/8 in	2 21/32 in	FNPT x MNPT	56,500	—	**2EEY9**
1/2 in x 1/2 in	2 1/2 in	FNPT x FNPT	800,000	—	**2EEV6**
3/4 in x 3/4 in	2 15/16 in	FNPT x FNPT	1,310,000	—	**2EEV7**
1 in x 1 in	3 15/16 in	FNPT x FNPT	2,100,000	—	**2EEV8**
1 1/4 in x 1 1/4 in	3 21/32 in	FNPT x FNPT	3,250,000	—	**2EEV9**
1 1/2 in x 1 1/2 in	4 3/8 in	FNPT x FNPT	3,700,000	—	**2EEW2**
2 in x 2 in	5 7/16 in	FNPT x FNPT	7,300,000	—	**2EEW3**
2 in x 2 in	5 7/16 in	FNPT x FNPT	7,300,000	—	**2EEW4**
2 1/2 in x 2 1/2 in	5 7/8 in	FNPT x FNPT	7,800,000	—	**2EEW5**
Tee Handle					
1/4 in x 1/4 in	1 7/8 in	FNPT x FNPT	117,000	—	**2EEW6**
1/4 in x 1/4 in	1 31/32 in	FNPT x MNPT	—	—	**2EEZ2**
3/8 in x 3/8 in	1 13/16 in	FNPT x FNPT	274,000	—	**2EEW8**
1/2 in x 1/2 in	1 7/8 in	FNPT x FNPT	274,000	—	**2EEW7**
1/2 in x 1/2 in	2 1/16 in	FNPT x FNPT	274,600	—	**2EEW9**

Pipe Size	Overall Length	Connec. Type	Max. Pressure 125 psig Item No.
Flat Head Handle			
1/4 in x 1/4 in	2 1/16 in	FNPT x FNPT	**2EEX6**
1/2 in x 1/2 in	2 1/16 in	FNPT x FNPT	**2EEX7**
3/4 in x 3/4 in	2 5/16 in	FNPT x FNPT	**2EEX8**
1 in x 1 in	2 9/16 in	FNPT x FNPT	**2EEX9**
Lever Handle			
1/4 in x 1/4 in	1 21/32 in	FNPT x FNPT	**2EEY1**
3/8 in x 3/8 in	1 21/32 in	FNPT x FNPT	**2EEY2**
1/2 in x 1/2 in	2 1/16 in	FNPT x FNPT	**2EEY3**
3/4 in x 3/4 in	2 5/16 in	FNPT x FNPT	**2EEY4**
1 in x 1 in	2 9/16 in	FNPT x FNPT	**2EEY5**
Tee Handle			
1/4 in x 1/4 in	1 21/32 in	FNPT x FNPT	**2EEX1**
3/8 in x 3/8 in	1 21/32 in	FNPT x FNPT	**2EEX2**
1/2 in x 1/2 in	2 1/16 in	FNPT x FNPT	**2EEX3**
3/4 in x 3/4 in	2 5/16 in	FNPT x FNPT	**2EEX4**
1 in x 1 in	2 9/16 in	FNPT x FNPT	**2EEX5**

Brass Ground Plug Valves

Parker

- Max. pressure: 30 psi
- Temp. range: -65° to 250°F, except Parker valves are 32° to 125°F

Ideal for use in automotive and industrial applications. Approved Vendor valves feature a universal lubricant satisfactory for most common fluids. All Parker valves are manufactured from forged bodies or castings for greater strength.

Pipe Size	Overall Height	Approved Vendor MNPT x FNPT Item No.
1/8 in	1 7/8 in	**1VRA6**
1/4 in	1 7/8 in	**1VRA7**
1/4 in	1 13/16 in	**1VRA8**
1/4 in	2 1/4 in	**1VRA9**

Pipe Size	Parker, Threaded Item No.
1/4 in	**21VL66**
1/8 in	**21VL67**
1/4 in	**21VL68**

Tube Size	Overall Length	Approved Vendor Flare Item No.
1/4 in	1 7/8 in	**1VPZ3**
5/16 in	1 7/8 in	**1VPZ4**
3/8 in	2 in	**1VPZ5**

Tube Size	Overall Length	Approved Vendor Compression Item No.
1/4 in	2 3/16 in	**1VRA1**
1/4 in	2 3/16 in	**1VRA2**
1/4 in	2 1/8 in	**1VPZ7**
5/16 in	2 3/16 in	**1VRA3**
5/16 in	2 1/4 in	**1VRA4**
5/16 in	2 3/16 in	**1VPZ8**
3/8 in	2 3/8 in	**1VRA5**
3/8 in	2 1/4 in	**1VPZ9**

Apollo Valves

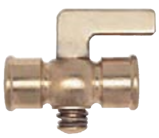
Brass Air Shutoff Stopcocks

Economical way to shut off compressed air lines.

2GMU3

2EFD1

2EFD6



2EFE7

Pipe Size	Connec. Type	Handle Type	Max. Pressure	Temp. Range	Nut Bottom Item No.	Spring Bottom Item No.
1/8 in	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	**2GMU3**	—
	FNPT x FNPT	Tee	80 psig	-20° to 500°F	—	**2EFD1**
	MNPT Round Shoulder x FNPT	Lever	80 psig	-20° to 500°F	—	**2EFF4**
	MNPT Round Shoulder x FNPT	Lever	200 psig	-20° to 500°F	**2EFF8**	—
	MNPT Round Shoulder x Straight Nose	Lever	80 psig	-20° to 500°F	—	**2EEZ9**
	MNPT x FNPT	Lever	80 psig	-20° to 500°F	—	**2EFG4**
1/4 in	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Lever	80 psig	-20° to 500°F	—	**2GMT9**
	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Tee	80 psig	-20° to 500°F	—	**2GMT5**
	FNPT Hexagon Shoulder x FNPT Hexagon Shoulder	Tee	200 psig	-20° to 500°F	**2GMT7**	—
	FNPT x FNPT	Lever	80 psig	-20° to 500°F	—	**2EFE7**
	FNPT x FNPT	Lever	200 psig	-20° to 500°F	**2EFF2**	—
	FNPT x FNPT	Tee	80 psig	-20° to 500°F	—	**2EFD2**
	FNPT x FNPT	Tee	200 psig	-20° to 500°F	**2EFD6**	—
	MNPT Hexagon Shoulder x Bibb Nose	Lever	80 psig	-20° to 500°F	—	**2EFC5**
	MNPT Hexagon Shoulder x MNPT	Lever	80 psig	-20° to 500°F	—	**2EFA7**
	MNPT Hexagon Shoulder x MNPT	Lever	200 psig	-20° to 500°F	**2EFA9**	—
	MNPT Round Shoulder x FNPT	Lever	80 psig	-20° to 500°F	—	**2EFF5**
	MNPT x FNPT	Tee	80 psig	-20° to 500°F	—	**2EFE1**
	MNPT x FNPT	Tee	200 psig	-20° to 500°F	**2EFE5**	—
	MNPT x FNPT Hexagon Shoulder	Lever	80 psig	-20° to 500°F	—	**2EFG5**
	MNPT x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	**2EFF9**	—
	MNPT x FNPT Hexagon Shoulder	Lever	200 psig	-20° to 500°F	**2GMT2**	—
3/8 in	FNPT x FNPT	Lever	80 psig	-20° to 500°F	—	**2EFE8**
	MNPT x FNPT	Tee	80 psig	-20° to 500°F	—	**2EFE2**
1/2 in	MNPT Hexagon Shoulder x Straight Nose	Lever	80 psig	-20° to 500°F	—	**2EFA3**

Light-Duty Industrial Pedestal Fans

Dayton airmaster Fans

- Ball bearings
- OSHA-compliant wire guards

These fans cool light manufacturing areas, warehouses, and other dry, clean spaces.

DAYTON

Fan heads have locking tilt adjustment for directional air flow.

Foldable Pedestal—Fan head unfolds into upright position. Fully assembled fans feature pedestal with plastic wheels for roll-about portability.

Quiet-Design—Provides high-velocity air flow in settings such as schools, libraries, churches, offices, or other quiet environments. Adjustable-height pedestal included.

AIRMASTER

Adjustable-height pedestal included.

2LY96

2LBA5

22YK15

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	Height Adjustment	Cord Length	Assembly Req.	Brand	Mfr. Model	Item No.
Non-Oscillating														
18 in	2	2,460/3,480 cfm	120 V AC	⅕ hp	1100/950	1.8/1.4	OPAO	65 in	52 to 65 in	9 ft	Yes	Dayton	6ALE6	**6ALE6**
20 in	2	2,600/3,700 cfm	120 V AC	⅙ hp	1200/1000	2.0/1.5	OPAO	75 in	57 to 75 in	9 ft	Yes	Dayton	2LY96	**2LY96**
24 in	2	3,800/5,450 cfm	120 V AC	¼ hp	1100/900	2.9/2.0	OPAO	77 in	60 to 77 in	9 ft	Yes	Dayton	2LY97B	**2LY97**
	3	2,460/3,460/4,400 cfm	115 V AC	¼ hp	—	—	TEAO	96 in	—	—	—	Airmaster Fan	71584	**46Z424**
30 in	2	4,650/7,250 cfm	120 V AC	¼ hp	1100/900	2.9/1.9	OPAO	79 in	61 to 79 in	9 ft	Yes	Dayton	1RWB5	**1RWB5**
	3	2,700/4,400/6,100 cfm	115 V AC	¼ hp	—	—	TEAO	96 in	—	—	—	Airmaster Fan	CA30APE	**2LBA5**
Foldable Pedestal														
24 in	2	3,800/5,450 cfm	120 V AC	¼ hp	1100/900	2.9/1.9	OPAO	71 ¾ in	Fixed Height	9 ft	No	Dayton	22YK16	**22YK16**
30 in	2	4,650/7,250 cfm	120 V AC	¼ hp	1100/900	2.9/1.9	OPAO	74 ¼ in	Fixed Height	9 ft	No	Dayton	22YK18	**22YK18**
Oscillating														
18 in	2	4,000/5,700 cfm	120 V AC	⅕ hp	1100/925	2.0/1.5	TEAO	67 in	52 to 67 in	9 ft	Yes	Dayton	13V398	**13V398**
20 in	2	5,100/6,200 cfm	120 V AC	⅕ hp	1100/925	2.0/1.6	TEAO	74 in	60 in to 74 in	9 ft	Yes	Dayton	13V399	**13V399**
24 in	2	3,510/6,400 cfm	115 V AC	¼ hp	1100/850	2.8/2.1	TEAO	74 ½ in	59 to 74 ½ in	10 ft	Yes	Dayton	6ALE8	**6ALE8**
	3	2,460/3,460/4,400 cfm	115 V AC	⅓ hp	—	—	TEAO	96 in	—	—	—	Airmaster Fan	71580	**20LP84**
30 in	2	7,260/8,200 cfm	115 V AC	½ hp	1100/850	4.2/3.5	TEAO	77 in	62 in to 77 in	10 ft	Yes	Dayton	6ALE9	**6ALE9**
	3	2,700/4,400/6,100 cfm	115 V AC	⅓ hp	—	—	TEAO	96 in	—	—	—	Airmaster Fan	CA300AP	**22UK97**
Foldable Pedestal														
24 in	2	3,480/6,360 cfm	120 V AC	¼ hp	1100/900	2.8/1.6	TEAO	71 ¾ in	Fixed Height	9 ft	No	Dayton	22YK15	**22YK15**
30 in	2	7,200/8,130 cfm	120 V AC	¼ hp	1100/900	2.8/1.6	TEAO	74 ¼ in	Fixed Height	9 ft	No	Dayton	22YK17	**22YK17**
Quiet-Design														
24 in	3	2,280/4,320/5,030 cfm	115 V AC	¼ hp	1025/880/480	2.0/1.6/0.6	TEAO	81 in	—	10 ft	Yes	Dayton	2RDZ6	**2RDZ6**
30 in	3	3,450/6,090/7,450 cfm	115 V AC	¼ hp	1010/860/530	2.2/1.6/0.6	TEAO	78 in	—	10 ft	Yes	Dayton	2RDZ7	**2RDZ7**

Dayton BIG ASS FANS airmaster Fans SCHAEFER

Standard-Duty Industrial Pedestal Fans

- OSHA-compliant wire guards

Used to cool heavy manufacturing areas and other dusty or dirty environments.

DAYTON

- Ball bearings

Include mounting hardware.

Quiet-Design—Provides high-velocity air flow in settings such as schools, libraries, churches, offices, or other quiet environments. Adjustable-height pedestal included.

BIG ASS FANS

Select models feature an occupancy sensor (where noted). Fans with an ion kit have a bipolar ionizer that generates ions to destroy most pathogens in the air and on surfaces.

AIRMASTER FAN

- Ball bearings

SCHAEFER

- Sealed ball bearings

Include mobile cart with 8" pneumatic casters.

60PV67

7DD03

4ARJ7

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	Cord Length	Assembly Req.	Brand	Mfr. Model	Item No.
Non-Oscillating													
18 in	2	2,900/4,500 cfm	115 V AC	¼ hp	1075/700	1.7/.1.6	TEAO	23 in	10 ft	No	Dayton	7DC93	**7DC93**
20 in	2	3,055/4,700 cfm	115 V AC	¼ hp	1075	0.94/0.66	TEAO	23 in	10 ft	No	Dayton	7DC97	**7DC97**
	Variable	—	120 V AC	21/64 hp	1220	4.6	TEAO	69 ½ in	—	Yes	Big Ass Fans	F-AE1-2001L11S34	**326VF9**
	Variable	—	120 V AC	21/64 hp	1220	4.6	TEAO	69 ½ in	—	Yes	Big Ass Fans	F-AE1-2001L11S34V56	**326VG2** *
24 in	2	3,800/6,100 cfm	115 V AC	⅓ hp	1075	3.38/2.29	TEAO	27 in	10 ft	No	Dayton	7DD01	**7DD01**
	3	2,820/4,020/5,520 cfm	115 V AC	⅓ hp	—	—	TEAO	88 ½ in	—	—	Airmaster Fan	71760	**15E706**
	Variable	—	120 V AC	21/64 hp	1290	4.8	TEAO	72 ⅝ in	—	Yes	Big Ass Fans	F-AE1-2401L11S34	**326VG4**
	Variable	—	120 V AC	⅓ hp	1290	4.8	TEAO	72 ⅝ in	—	Yes	Big Ass Fans	F-AE1-2401L11S34V56	**326VG7** *
30 in	2	8,712/9,704 cfm	115 V AC	½ hp	1075	3.70/3.12	TEAO	33 in	10 ft	No	Dayton	7DD05	**7DD05**
	3	3,415/5,300/7,185 cfm	115 V AC	⅓ hp	—	—	TEAO	60 to 92 in	—	—	Airmaster Fan	UPI-30PA2A	**15E708**
	Variable	—	120 V AC	⅓ hp	1280	4.9	TEAO	75 ¾ in	—	Yes	Big Ass Fans	F-AE1-3001L11S34	**326VG9**
	Variable	—	120 V AC	⅓ hp	1280	4.9	TEAO	75 ¾ in	—	Yes	Big Ass Fans	F-AE1-3001L11S34V56	**326VH2** *
	Variable	—	110-125 V AC	½ hp	1317	7.9-10.5	ODP	—	10 ft	Yes	Big Ass Fans	MP-YJ1-031018S34	**744H98**
Fan with Ion Kit													
20 ½ in	Variable	—	120 V AC	⅓ hp	1220	4.6 A	TEAO	69 ½ in	18 ft	Yes	Big Ass Fans	F-AE1-2001L11S34S78	**60PV67**
	Variable	—	120 V AC	⅓ hp	1220	4.6 A	TEAO	69 ½ in	18 ft	Yes	Big Ass Fans	F-AE1-2001L11S34S78V56	**60PV68** *
24 ½ in	Variable	—	120 V AC	⅓ hp	1290	4.8 A	TEAO	72 ⅝ in	18 ft	Yes	Big Ass Fans	F-AE1-2401L11S34S78	**60PV73**
	Variable	—	120 V AC	⅓ hp	1290	4.8 A	TEAO	72 ⅝ in	18 ft	Yes	Big Ass Fans	F-AE1-2401L11S34S78V56	**60PV74** *
30 ½ in	Variable	—	120 V AC	⅓ hp	1280	4.8 A	TEAO	75 11/16 in	18 ft	Yes	Big Ass Fans	F-AE1-3001L11S34S78	**60PV79**
	Variable	—	120 V AC	⅓ hp	1280	4.8 A	TEAO	75 11/16 in	18 ft	Yes	Big Ass Fans	F-AE1-3001L11S34S78V56	**60PV80** *
Quiet-Design													
18 in	3	1,805/2,113/2,600 cfm	115 V AC	⅕ hp	1125	1.41	TEAO	Adj 60 to 71 in	15 ft	Yes	Dayton	4PRW3	**4PRW3**
20 in	3	1,657/2,060/3,100 cfm	115 V AC	⅕ hp	1120	1.65	TEAO	Adj 60 to 71 in	15 ft	Yes	Dayton	4PRV8	**4PRV8**
24 in	3	3,325/4,556/5,588 cfm	115 V AC	⅓ hp	1110/900/700	2.5	TEAO	Adj 60 to 96 in	15 ft	Yes	Dayton	2WCG4	**2WCG4**
30 in	3	4,463/6,259/8,402 cfm	115 V AC	⅓ hp	1098/880/660	2.6	TEAO	Adj 60 to 96 in	15 ft	Yes	Dayton	2WCF9	**2WCF9**
Oscillating													
18 in	2	2,900/4,500 cfm	115 V AC	¼ hp	1075/700	1.7/.1.6	TEAO	23 in	10 ft	No	Dayton	7DC95	**7DC95**
20 in	2	3,055/4,700 cfm	115 V AC	¼ hp	1075	2.25/0.51	TEAO	23 in	10 ft	No	Dayton	7DC99	**7DC99**
24 in	2	4,460/6,400 cfm	115 V AC	½ hp	1075/600	4.65/3.31	TEAO	27 in	10 ft	No	Dayton	7DD03	**7DD03**
	3	2,820/4,020/5,520 cfm	115 V AC	⅓ hp	—	—	TEAO	88 ½ in	—	—	Airmaster Fan	71567	**15E710**
30 in	2	8,674/9,612 cfm	115 V AC	½ hp	1075/600	4.06/2.61	TEAO	33 in	10 ft	No	Dayton	7DD07	**7DD07**
	3	3,415/5,300/7,185 cfm	115 V AC	⅓ hp	—	—	TEAO	60 in to 96 in	—	—	Airmaster Fan	71568	**15E712**
36 in	1	11,700 cfm	115/230 V AC	½ hp	825	7/3.5	TEAO	75 in	5 ft	Yes	Schaefer	VKO36-B-O	**4ARJ7**
	1	11,700 cfm	115/230 V AC	½ hp	825	7/3.5	TEAO	75 in	5 ft	No	Schaefer	VKO36-O	**4ARK8**
Quiet-Design													
18 in	3	1,805/2,113/2,600 cfm	115 V AC	⅕ hp	1125	1.41	TEAO	Adj 60 to 71 in	15 ft	Yes	Dayton	4PRW1	**4PRW1**
20 in	3	1,657/2,060/3,100 cfm	115 V AC	⅕ hp	1120	1.65	TEAO	Adj 60 to 71 in	15 ft	Yes	Dayton	4PRV6	**4PRV6**
24 in	3	3,125/4,356/5,387 cfm	115 V AC	⅓ hp	1070/850/628	2.5	TEAO	Adj 60 to 96 in	15 ft	Yes	Dayton	2WCG6	**2WCG6**
30 in	3	4,063/5,859/7,996 cfm	115 V AC	⅓ hp	1045/789/561	2.9	TEAO	Adj 60 to 96 in	15 ft	Yes	Dayton	2WCG2	**2WCG2**

** Includes occupancy sensor.*

7DJ29

High-Visibility Industrial Pedestal Fans

Dayton

- Non-oscillating
- 115VAC
- Totally enclosed motors
- Ball bearings
- OSHA-compliant wire guards

Safety-yellow finish attracts attention to help prevent accidental damage to the fan. Pedestal adjusts from 41½" to 59". Fans include an extension cord (15 ft. for 7DJ29 and 14 ft. for 7DJ33) and a 3-position drop cord switch.

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Cord Length	Assembly Req.	Item No.
24 in	2	3,800/6,100 cfm	⅓ hp	1075/750	3.28/2.29	2 ft	Yes	**7DJ29**
30 in	2	8,712/9,375 cfm	½ hp	1075/750	3.7/3.12	2 ft	Yes	**7DJ33**

216NV2

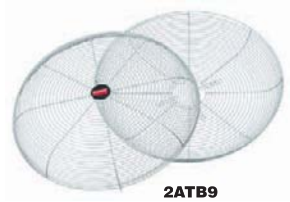
Industrial Pedestal Washdown Fans

Dayton

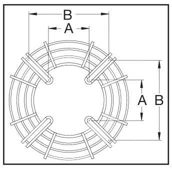
- Non-oscillating
- Totally enclosed non-ventilated motors
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Can be hosed off or pressure washed during cleaning in areas that require regular washdowns. Secondary safety cable included.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Amps	H	Assembly Req.	Item No.
20 in	1	2,670 cfm	115 V AC	1/15 hp	1.1	22 ½ in	Yes	**216NV2**
24 in	1	5,220 cfm	115/230 V AC	¼ hp	1.7/3.3	33 in	Yes	**216NV3**



2ATB9



Guards for Industrial Cooling Fans

Dayton

- OSHA-compliant polyester powder-coated wire guards

Replacement guards enclose fan blades to protect them from damage and prevent injuries from accidental contact. Guards mount to thru-bolts on yoke-mounted or rigid-base motors. Rear section of guard has 4 mounting slots to accommodate motor thru-bolts.

Note: Cradle-type motors cannot be used.

Guard Dia.	Fits Fan Blade Dia.	Color	Mounting Slot O.C. A	Mounting Slot O.C. B	For Use With	Item No.
19 in	16 in	Gray	2 1/16 in	4 in	48 in Frame Motors, 56 in Frame Motors	**2ATB6**
21 in	18 in		2 ¾ in	4 ½ in		**2ATB7**
23 in	20 in					**2ATB8**
27 in	24 in					**2ATB9**
33 in	30 in					**2ATC1**
39 in	36 in					**2ATC2**
33 in	30 in	Yellow			1VCH4, 1VCH5	**1VCH7**

4ARK3

216NT5

Industrial Pedestal Misting Fans

SCHAEFER Dayton

- Non-oscillating
- 115VAC
- Totally enclosed air-over motors
- OSHA-compliant wire guards

Feature a misting hub that connects to a water source for adding moisture to the air for rapid cooling.

Schaefer—4ARK3 has 10 gal. reservoir for up to 5 hr. of run time. 4ARK4 has 14 gal. reservoir for up to 7 hr. of run time and includes integrated wheels and handle.

- Sealed ball bearings

Dayton—Fans include pedestal and mounting hardware.

- Ball bearings

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	H	Height Adjustment	Cord Length	Assembly Req.	Brand	Item No.
Schaefer, Industrial											
18 in	3	1,400/1,800/2,200 cfm	1/10 hp	1000/1400/1570	1.5/1.3/1	42 in	—	25 ft	Yes	Schaefer	**4ARK3**
	3	1,400/1,800/2,200 cfm	1/10 hp	1000/1400/1570	1.5/1.3/1	Adj 53 to 72 in	53 to 72 in	25 ft	Yes	Schaefer	**4ARK4**
Dayton, Standard Duty											
20 in	2	3,080/4,750 cfm	¼ hp	1100/850	1.4/2.0	23 in	41 ½ in to 59 in	10 ft.	Yes	Dayton	**216NT4**
24 in	2	3,850/6,200 cfm	⅓ hp	1100/850	3.0/3.6	27 in	41 ½ in to 59 in	10 ft.	Yes	Dayton	**216NT5**
30 in	2	8,800/9,800 cfm	½ hp	1100/850	3.3/4.2	33 in	41 ½ in to 59 in	10 ft.	Yes	Dayton	**216NT6**

1ZCP4

1ZCP2

7DF09

40PR87

44ZE09

1ZCP6

1ZCP7

1ZCP8

1VCH6

34G191

Dayton

Industrial Fan Accessories

For more industrial fan accessories, go to Grainger.com.

Description	For Use With	Includes	Item No.
Pedestals			
Open Pedestal Base, Adjustable 41½ in to 58½ in	Dayton Yoke-Mounted Fan Heads Up Through 30 in	Assembly Hardware	**1ZCP4**
Pedestal Base, Base Dia. 27 in, Adjustable 41½ in to 59 in		Assembly Hardware	**1ZCP2**
Pedestal Base, Base Dia. 27 in, Adjustable 41½ in to 59 in, Safety Yellow	1VCH4, 1VCH5	Assembly Hardware	**1ZCP3**
Pedestal Base, Base Dia. 33 ½ in, Open Base, Stainless Steel	1XUA1, 2LYW6, 2LYW5, 2LYW4, 22UK95	—	**7DF09**
Wheel Kit for Industrial Fans			
Closed Base, Galvanized	1ZCP2D, 1ZCP3D	Brackets, Mounting Hardware, Wheels	**40PR87**
Misting Kit			
Misting Hub Kit	1VCE7, 1VCE8, 1VCE9, 1VCF6, 1VCF7, 1VCF8, 1VCG3, 1VCG4, 1VCG5, 1VCG6, 1ZCN7, 1ZCN8, 3PEG9	(3) Plugs, (6) Nozzles, 12 ft Tubing, Hose Adapter, In-Line Filter Screen and Washer, Misting Ring, Nylon Zip Ties and Mounting Hardware, Shutoff Valve and Washer	**44ZE09**
Mounting Brackets			
Ceiling/Wall/Post, Gray	Dayton Yoke-Mounted Fan Heads up to 30 in . Not Intended for Greenhouse or Oscillating Fans when Ceiling Mounted	Secondary Safety Support Cable	**1ZCP6**
Heavy Duty, Ceiling/Wall/Post, Gray	Dayton Yoke-Mounted Fan Heads up to 36 in . Not Intended for Greenhouse or Oscillating Fans when Ceiling Mounted	Secondary Safety Support Cable	**3PEH3**
Rafter or I-Beam, Gray	Dayton Yoke-Mounted Non-Oscillating Fan Heads Up Through 30 in. Not intended to be used with Greenhouse or Oscillating Fans.	Secondary Safety Support Cable	**1ZCP7**
I-Beam or Column, Gray		Secondary Safety Support Cable	**1ZCP8**
Switches for Industrial Fans			
Drop Cord Rocker Switch, 2-Speed, 3-Position, Yellow	1VCH4, 1VCH5	—	**1VCH6**
Pull Chain Switch	Dayton 6ALE8D, 6ALE9D, 6ALF0D, 6ALF1D, 13F045D, 1VCE7D, 1VCE8D, 1VCE9D, 3PEG9D, 13F047D, 1VCF2D, 1VCF3D, 1VCF4D	3.5 in Chain, 90° Elbow, Extension String, Silver Knurled Nut, Washers	**34G191**

Dayton®

Standard-Duty Industrial Fan Heads

- Totally enclosed motors
- Ball bearings
- OSHA-compliant wire guards

Provide cooling in heavy manufacturing areas and other dusty or dirty environments. Fan heads tilt and lock to direct airflow. 115VAC units feature a pull chain switch and 10-ft. 3-cond. power cord; others are hardwired. 208VAC and 277VAC fans reduce amp draw and can be wired with industrial lighting systems.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Phase	Motor HP	RPM	Amps	Includes	Item No.
Non-Oscillating									
18 in	2	2,950/4,550 cfm	115 V AC	1	¼ hp	1100/850	2.0/1.4	Mounting Bolts	**13F045**
20 in	2	3,080/4,750 cfm	115 V AC	1	¼ hp	1100/850	2.0/1.4	Mounting Bolts	**1VCE7**
24 in	1	6,000 cfm	208-230/460 V AC	3	½ hp	1100	2.2-2.2/1.1	Conduit Box, Mounting Bolts	**1VCG7**
24 in	1	6,050 cfm	208 V AC	1	½ hp	1100	2.3	Conduit Box, Mounting Bolts, Mounting Device, Secondary Safety Support Cable	**1VCG3**
24 in	1	6,050 cfm	277 V AC	1	½ hp	1100	1.8	Conduit Box, Mounting Bolts, Mounting Device, Secondary Safety Support Cable	**1VCG4**
24 in	2	3,850/6,200 cfm	115 V AC	1	⅓ hp	1100/850	3.6/3.0	Mounting Bolts	**1VCE8**
30 in	1	9,450 cfm	208-230/460 V AC	3	½ hp	1100	2.2-2.2/1.1	Conduit Box, Mounting Bolts	**1VCG8**
30 in	1	9,450 cfm	277 V AC	1	½ hp	1100	1.8	Conduit Box, Mounting Bolts, Mounting Device, Secondary Safety Support Cable	**1VCG6**
30 in	1	9,450 cfm	208 V AC	1	½ hp	1100	2.3	Conduit Box, Mounting Bolts, Mounting Device, Secondary Safety Support Cable	**1VCG5**
30 in	2	8,800/9,800 cfm	115 V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	**1VCE9**
Oscillating									
18 in	2	2,950/4,550 cfm	115 V AC	1	¼ hp	1100/850	2/1.4	Mounting Bolts	**13F047**
20 in	2	3,080/4,750 cfm	115 V AC	1	¼ hp	1100/850	2/1.4	Mounting Bolts	**1VCF2**
24 in	2	4,500/6,450 cfm	115 V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	**1VCF3**
30 in	2	8,800/9,800 cfm	115 V AC	1	½ hp	1100/850	4.2/3.3	Mounting Bolts	**1VCF4**

13F045

13F047

High-Temperature Industrial Fan Heads

Dayton®

- Non-oscillating
- Ball bearings
- Hardwired
- Max. ambient temp.: 140°F
- OSHA-compliant wire guards

4VAC3

Provide a reliable source of cooling in high ambient temperatures that could burn out fan heads rated for standard temperatures. Fan heads include conduit box and mounting bolts.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Item No.
20 in	1	4,700 cfm	115 VAC	¼ hp	1100	2.8	TEAO	**4VAC3**
20 in	1	5,500 cfm	115/230 VAC	½ hp	1670	5.2/2.6	TEAO	**4VAC6**
24 in	1	6,400 cfm	115 VAC	⅓ hp	1100	3.6	TEAO	**4VAC4**
24 in	1	7,100 cfm	115/230 VAC	½ hp	1670	5.2/2.6	TEAO	**4VAC7**
30 in	1	8,900 cfm	115 VAC	½ hp	1100	4.2	TEAO	**4VAC5**

High-Visibility Industrial Fan Heads

Dayton®

- Non-oscillating
- Ball bearings
- 115VAC
- OSHA-compliant wire guards

Safety-yellow finish attracts attention to help avoid accidental damage to the fan. Include a 15 ft. extension cord and a 3-position drop cord switch.

1VCH4

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Cord Length	Item No.
24 in	2	3,800/6,100 cfm	⅓ hp	1100/850	3.6/3.0	TEAO	10 ft	**1VCH4**
30 in	2	8,750/9,400 cfm	½ hp	1100/850	4.2/3.3	TEAO	10 ft	**1VCH5**

Industrial Misting Fan Heads

Dayton®

- Non-oscillating
- 115VAC
- Ball bearings
- OSHA-compliant wire guards

Feature misting hub kit 44ZE09 (see Grainger.com® for kit contents). Misting hub kit connects to a water source for adding moisture to the air for rapid cooling.

7DY63

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Cord Length	Item No.
20 in	2	3,055/4,700 cfm	¼ hp	1075	0.94/0.66	TEAO	10 ft	**7DY63**
24 in	2	3,800/6,100 cfm	⅓ hp	1075	3.38/2.29	TEAO	10 ft	**7DY64**
30 in	2	8,712/9,704 cfm	½ hp	1075	3.7/3.12	TEAO	10 ft	**7DY65**

Corrosion-Resistant Industrial Fan Heads

Multifan

- Non-oscillating
- Sealed ball bearings
- Variable speed controllable
- Hardwired
- OSHA-compliant wire guards

Withstand exposure to water and moisture to allow operation in wet or humid areas without damage to the fan. Indoor uses include regulating temperature in greenhouses to optimize plant growth and ventilating livestock buildings to prevent heat stress in animals and reduce the buildup of moisture, manure gases, pathogens, and dust. Outdoor uses include cooling people in pool areas and other high-moisture locations. Optional controls and steel mounting brackets sold separately.

Blade Dia.	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	PLASTIC COATED WHITE Item No.	BLACK POWDER COATED Item No.	WALL MOUNT BRACKETS Item No.	CEILING MOUNT BRACKETS Item No.
Fan Heads										
20 in	5,500 cfm	115 V AC	⅓ hp	1750	3.8	TEAO	**1DGY7**	—	**1DGZ1**	**1DGZ3**
24 in	8,000 cfm	115 V AC	⅓ hp	1750	3.8	TEAO	**1DGY5**	**44ZC74**	**1DGZ1**	**1DGZ3**
30 in	10,000 cfm	115 V AC	½ hp	1000	6.7	TEAO	**1DGY9**	**44ZC81**	**1DGZ2**	**1DGZ4**
30 in	10,000 cfm	240 V AC	½ hp	1000	3.1	TEAO	—	**44ZC87**	**1DGZ2**	**1DGZ4**
36 in	12,000 cfm	115 V AC	½ hp	780	6.3	TEAO	**1DGY3**	—	**1DGZ2**	**1DGZ4**
36 in	12,000 cfm	240 V AC	½ hp	770	3.2	TEAO	**1DGY2**	—	**1DGZ2**	**1DGZ4**

Item	Voltage	Max. Amps	Mfr. Model	Item No.
Speed Controls				
Speed Control	120/240V	10 A	VFMVS-1S	**1DGZ5**
Speed & Temp. Control	120/240V	10 A	VFSA-10S	**1DGZ6**

1DGY2

High-Velocity Industrial Fan Heads

PATTERSON THE AUTHORITY IN AIR MOVEMENT

- Non-oscillating
- Ball bearings
- OSHA-compliant wire guards

High-rpm motor and tubular housing push air at higher speeds over longer distances than fan heads with a standard open-grill design. 1-phase fans have 12-ft. power cord; 3-phase fans are hardwired.

Mounting Yokes and Brackets—For ceiling-mount only, yoke is required without additional mounting bracket. For floor, wall, or dock mounting positions, additional mounting bracket is needed along with yoke. Assembly hardware included. Brackets sold separately on Grainger.com®.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Phase	RPM	Amps	Motor Encl.	Mfr. Model	FAN ONLY Item No.	REQUIRED MOUNTING YOKE Item No.
14 in	1	2,600 cfm	115/208-230 V AC	¼ hp	1	1725	2.8/1.4-1.4	TEAO	HIP14A-CS	**482V92**	**6ALH0**
14 in	1	2,600 cfm	208-230/460 V AC	¼ hp	3	1725	1.5-1.4/0.75	TEAO	HIP14B-CS	**482V93**	**6ALH0**
18 in	1	3,800 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	HIP18A-CS	**482V94**	**6ALH1**
18 in	1	3,800 cfm	208-230/460 V AC	½ hp	3	1725	2.4-2.3/1.2	TEAO	HIP18B-CS	**482V95**	**6ALH1**
22 in	1	5,570 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	HIP22A-CS	**482V96**	**6ALH2**
22 in	1	5,570 cfm	208-230/460 V AC	½ hp	3	1725	2.4-2.3/1.2	TEAO	HIP22B-CS	**482V97**	**6ALH2**
26 in	1	7,650 cfm	115/220 V AC	1 hp	1	1725	13.4/6.8-6.7	TEFC	H26A-CS	**6ALF8**	**6ALH3**
26 in	1	7,650 cfm	230/460 V AC	1 hp	3	1725	1.8/ 3.6-3.5	TEAO	H26B-CS	**6ALF9**	**6ALH3**
30 in	1	12,000 cfm	115/220 V AC	1 hp	1	1800	13.4/6.8-6.7	TEAO	HIP30A-CS	**787AV5**	**6ALH4**
30 in	1	12,000 cfm	230/460 V AC	1 hp	3	1800	1.8/ 3.6-3.5	TEAO	HIP30B-CS	**787AV6**	**6ALH4**
34 in	1	17,000 cfm	230/460 V AC	3 hp	3	1165	9.9-9.2/4.6	TEAO	H34B-CS	**6ALG2**	**6ALH5**

482V96

6ALH2

1RWB4

2LBA6

2RDZ9

Light-Duty Industrial Wall-Mount Fans

- Ball bearings
- Unassembled
- OSHA-compliant wire guards

Fans cool light manufacturing areas, warehouses, and other dry, clean spaces where floor space is limited.

Airmaster—2HYH1 through 2HYH3 feature pull chain speed switch and yoke mount which attaches to any surface with 1 bolt or lag screw. Other models include mounting bracket and safety cable kit.

Dayton—Fan heads feature locking tilt adjustment for directional air flow. Bracket and secondary safety support cable included.

Dayton Quiet-Design—Provide high-velocity air flow in settings such as schools, libraries, churches, offices, or other quiet environments. Bracket and secondary safety support cable included.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Brand	Mfr. Model	Item No.
Non-Oscillating												
12 in	3	1,300/1,550/1,855 cfm	115 V AC	1/16 hp	1500	0.5	ODP	Ceiling, Wall	8 ft	Airmaster Fan	78971	**2HYH1**
18 in	2	2,460/3,480 cfm	120 V AC	⅕ hp	1100/950	1.8/1.4	OPAO	Wall	9 ft	Dayton	6ALE7	**6ALE7**
	3	3,346/3,824/4,550 cfm	115 V AC	⅛ hp	1600	1.65	ODP	Ceiling, Wall	8 ft	Airmaster Fan	78972	**2HYH2**
20 in	2	2,600/3,700 cfm	120 V AC	⅛ hp	1200/1000	2.0/1.5	OPAO	Ceiling, Wall	9 ft	Dayton	2LY99	**2LY99**
	3	4,387/5,020/5,950 cfm	115 V AC	⅕ hp	—	—	ODP	Ceiling, Wall	—	Airmaster Fan	78970	**2HYH3**
24 in	2	3,800/5,450 cfm	120 V AC	¼ hp	1100/950	2.9/2.0	OPAO	Ceiling, Wall	9 ft	Dayton	2MA10	**2MA10**
	3	2,460/3,460/4,400 cfm	115 V AC	¼ hp	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	71572	**46Z423**
30 in	2	4,650/7,250 cfm	120 V AC	¼ hp	1100/900	2.9/1.9	OPAO	Ceiling, Wall	9 ft	Dayton	1RWB4	**1RWB4**
	3	2,700/4,400/6,100 cfm	115 V AC	¼ hp	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	CA30WC	**2LBA6**
Oscillating												
18 in	2	4,000/5,700 cfm	120 V AC	⅕ hp	1100/925	2.0/1.5	TEAO	Wall	9 ft	Dayton	13V401	**13V401**
20 in	2	5,100/6,200 cfm	120 V AC	⅕ hp	1100/925	2.0/1.6	TEAO	Wall	9 ft	Dayton	13V402	**13V402**
24 in	2	3,510/6,400 cfm	115 V AC	¼ hp	1100/850	2.8/2.1	TEAO	Wall	10 ft	Dayton	6ALF0	**6ALF0**
	3	2,460/3,460/4,400 cfm	115 V AC	⅓ hp	1100	3.2	TEAO	Wall	15 ft	Airmaster Fan	CA24OW	**22UK96**
30 in	2	7,260/8,200 cfm	115 V AC	½ hp	1100/850	4.2/3.5	TEAO	Wall	10 ft	Dayton	6ALF1	**6ALF1**
	3	2,700/4,400/6,100 cfm	115 V AC	⅓ hp	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	71582	**46Z425**
Quiet-Design												
24 in	3	2,280/4,320/5,030 cfm	115 V AC	¼ hp	1025/880/480	2.0/1.6/0.6	TEAO	Wall	10 ft	Dayton	2RDZ8	**2RDZ8**
30 in	3	3,450/6,090/7,450 cfm	115 V AC	¼ hp	1010/860/530	2.2/1.6/0.6	TEAO	Wall	10 ft	Dayton	2RDZ9	**2RDZ9**

6ALD4

7DD02

744H99

2WCG3

Standard-Duty Industrial Wall-Mount Fans

Fans cool heavy manufacturing areas and other dusty or dirty environments with limited floor space.

Schaefer—Designed for agriculture, horticulture or industrial applications. Wall-mount units include mounting bracket.

- Ball bearings
- Zinc plated wire guards

Big Ass Fans—55FF65 and 55FF67 have 360° rotation and 40° tilt. 744H99 features an EC motor and 360° rotation. 326VG8 has an IP65 EC motor and an occupancy sensor. For cleaner, healthier air, find fans with Ion Kits on Grainger.com.

- OSHA-compliant guards, except 55FF68

Dayton—Fan heads feature locking tilt adjustment for directional air flow. 115VAC models include 3-cond. power cord; others are hardwired. Bracket and secondary safety support cable included.

- Ball bearings
- OSHA-compliant wire guards

Dayton Quiet-Design—Designed to provide high-velocity air flow in settings such as schools, libraries, churches, offices, or other quiet environments. Bracket and secondary safety support cable included.

Airmaster Fan—Fans include a mounting bracket and secondary safety support cable kit.

- OSHA-compliant wire guards

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Brand	Mfr. Model	Item No.
Non-Oscillating												
12 in	Variable	1,470 cfm	115/230 V AC	1/10 hp	1725	1.3/0.65	TEAO	Wall	5 ft	Schaefer	GVK12	**6ALD4**
18 in	1	—	115 V AC	⅓ hp	—	—	—	Wall	—	Big Ass Fans	F-SB1-0101L13S34	**55FF65**
20 in	2	3,055/4,700 cfm	115 V AC	¼ hp	1075	0.94/0.66	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DC98	**7DC98**
	Variable	5,470 cfm	115/230 V AC	⅓ hp	1725	3.8/1.9	TEAO	Wall	5 ft	Schaefer	GVK20	**6ALD5**
24 in	1	6,000 cfm	208-230/460 V AC	½ hp	—	1.1/2.2	TEAO	Ceiling, Post, Wall	—	Dayton	216NU3	**216NU3**
	1	6,050 cfm	208 V AC	½ hp	—	2.3	TEAO	Ceiling, Post, Wall	—	Dayton	216NU1	**216NU1**
	1	6,050 cfm	277 V AC	½ hp	—	1.8	TEAO	Ceiling, Post, Wall	—	Dayton	216NU2	**216NU2**
	2	3,800/6,100 cfm	115 V AC	⅓ hp	1075	3.38/2.29	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DD02	**7DD02**
	3	2,820/4,020/5,520 cfm	115 V AC	⅓ hp	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	71725	**15E707**
	Variable	7,860 cfm	115/230 V AC	½ hp	1725	4.8/2.4	TEAO	Wall	5 ft	Schaefer	GVK24	**6ALD6**
30 in	1	9,450 cfm	208-230/460 V AC	½ hp	—	1.1/2.2	TEAO	Ceiling, Post, Wall	—	Dayton	216NU6	**216NU6**
	1	9,450 cfm	208 V AC	½ hp	—	2.3	TEAO	Ceiling, Post, Wall	—	Dayton	216NU4	**216NU4**
	1	9,450 cfm	277 V AC	½ hp	—	1.8	TEAO	Ceiling, Post, Wall	—	Dayton	216NU5	**216NU5**
	1	—	240/480 V AC	1 hp	—	—	—	Wall	—	Big Ass Fans	F-SB1-0215L13S34	**55FF67**
	2	8,712/9,704 cfm	115 V AC	½ hp	1075	3.70/3.12	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DD06	**7DD06**
	3	3,415/5,300/7,185 cfm	115 V AC	⅓ hp	—	—	TEAO	Ceiling, Wall	—	Airmaster Fan	I-30W2A	**15E709**
	Variable	—	110-125 V AC		1317	7.9-10.5	ODP	IBeam, Wall	10 ft	Big Ass Fans	F-YJ1-0310L13S34	**744H99**
	Variable	—	120 V AC	⅓ hp	1280	4.9	TEAO	Wall	—	Big Ass Fans	F-AE1-3001L13S34	**326VG8**
36 in	1	11,400 cfm	115/230 V AC	½ hp	825	7/3.5	TEAO	Wall	5 ft	Schaefer	GVK36	**6ALD8**
	1	11,690 cfm	115/230 V AC	½ hp	825	7/3.5	TEAO	Ceiling	5 ft	Schaefer	GVKC36	**6ALE0**
	1	12,600 cfm	208-230/460 V AC	½ hp	1100	2.2-2.2/1.1	TEAO	Ceiling, Post, Wall	No Cord	Dayton	3PEH2	**3PEH2**
	2	8,100/12,600 cfm	115 V AC	½ hp	1100/850	4.2/3.9	TEAO	Ceiling, Post, Wall	10 ft	Dayton	3PEG9	**3PEG9**
72 in	Variable	—	115 V AC	½ hp	—	—	—	Ceiling	—	Big Ass Fans	F-PV2-0601S34	**55FF68**
Quiet-Design												
18 in	3	1,805/2,113/2,600 cfm	115 V AC	⅕ hp	1125	1.41	TEAO	Wall	15 ft	Dayton	4PRW4	**4PRW4**
20 in	3	1,657/2,060/3,100 cfm	115 V AC	⅕ hp	1120	1.65	TEAO	Wall	15 ft	Dayton	4PRV9	**4PRV9**
24 in	3	3,325/4,556/5,588 cfm	115 V AC	⅓ hp	1110/900/700	2.5	TEAO	Wall	15 ft	Dayton	2WCG5	**2WCG5**
30 in	3	4,463/6,259/8,402 cfm	115 V AC	⅓ hp	1098/880/660	2.6	TEAO	Wall	15 ft	Dayton	2WCG1	**2WCG1**
Oscillating												
18 in	2	2,900/4,500 cfm	115 V AC	¼ hp	1075/700	1.7/.1.6	TEAO	Wall	10 ft	Dayton	7DC96	**7DC96**
20 in	2	3,055/4,700 cfm	115 V AC	¼ hp	1075	2.25/0.51	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DD00	**7DD00**
24 in	2	4,460/6,400 cfm	115 V AC	½ hp	1075/600	4.65/3.31	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DD04	**7DD04**
	3	2,820/4,020/5,520 cfm	115 V AC	⅓ hp	—	—	TEAO	Wall	—	Airmaster Fan	I-24-OIW	**15E711**
30 in	2	8,674/9,612 cfm	115 V AC	½ hp	1075/600	4.06/2.61	TEAO	Ceiling/Wall/Post	10 ft	Dayton	7DD08	**7DD08**
	3	3,415/5,300/7,185 cfm	115 V AC	⅓ hp	—	—	TEAO	Wall	—	Airmaster Fan	71566	**15E713**
Quiet-Design												
18 in	3	1,805/2,113/2,600 cfm	115 V AC	⅕ hp	1125	1.41	TEAO	Wall	15 ft	Dayton	4PRW2	**4PRW2**
20 in	3	1,657/2,060/3,100 cfm	115 V AC	⅕ hp	1120	1.65	TEAO	Wall	15 ft	Dayton	4PRV7	**4PRV7**
24 in	3	3,125/4,356/5,387 cfm	115 V AC	⅓ hp	1070/850/628	2.5	TEAO	Wall	15 ft	Dayton	2WCG7	**2WCG7**
30 in	3	4,063/5,859/7,996 cfm	115 V AC	⅓ hp	1045/789/561	2.9	TEAO	Wall	15 ft	Dayton	2WCG3	**2WCG3**

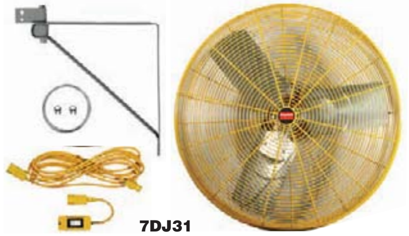
High-Visibility Industrial Wall-Mount Fans

Dayton

- Non-oscillating
- 115VAC
- Ball bearings
- OSHA-compliant wire guards

Safety-yellow finish attracts attention to help prevent accidental damage to the fan. Fans include a 15 ft. extension cord, 3-position drop cord switch, and mounting bracket.

Blade Dia.	No. of Speeds	Air Flow	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Item No.
24 in	2	3,800/6,100 cfm	⅓ hp	1075/750	3.28/2.29	TEAO	IBeam, Post	2 ft	**7DJ28**
	2	3,800/6,100 cfm	⅓ hp	1075/750	3.28/2.29	TEAO	Ceiling/Wall/Post	2 ft	**7DJ27**
30 in	2	8,712/9,375 cfm	½ hp	1075/750	3.7/3.12	TEAO	IBeam, Post	2 ft	**7DJ32**
	2	8,712/9,375 cfm	½ hp	1075/750	3.7/3.12	TEAO	Ceiling/Wall/Post	2 ft	**7DJ31**



7DJ31

Industrial Wall-Mount Washdown Fans

Dayton

- Non-oscillating
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Can be hosed off or pressure washed during cleaning in areas that require regular washdowns. Fan heads tilt and lock to direct airflow. Secondary safety support cable included.

Painted Steel—Primer and white paint finish on motor. Conduit box included.

Stainless Steel—Approved by the USDA and NSF for food zones. Motors comply with BISSC Standard for waterproof motors.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Item No.
Painted Steel									
20 in	1	4,750 cfm	115/230 V AC	¼ hp	1100	2.9/1.5	TEAO	Wall	**1VCF9**
24 in	1	6,849 cfm	115/230 V AC	⅓ hp	1100	3.6/1.8	TEAO	Wall	**1VCG1**
30 in	1	10,050 cfm	115/230 V AC	½ hp	1100	4.3/2.3	TEAO	Wall	**1VCG2**
Stainless Steel									
20 in	1	2,670 cfm	115 V AC	⅒ hp	1600	1.08	TENV	Wall	**2LYW4**
24 in	1	5,220 cfm	115/230 V AC	¼ hp	1075	3.28/1.68	TENV	Wall	**2LYW5**
30 in	1	8,800 cfm	115/230 V AC	⅓ hp	1075	3.7/1.88	TENV	Wall	**2LYW6**

1VCF9

Hazardous-Location Industrial Wall-Mount Fans

Dayton

- Non-oscillating
- Motors only are UL Listed (E29183) for Class 1, Div. 1, Group D, and Class II, Div. I, Groups E, F, and G hazardous locations
- Ball bearings
- Hardwired
- OSHA-compliant wire guards

Resist sparking to reduce the risk of ignition when cooling areas with flammable or explosive vapors, gases, or dust. Designated for use in specific hazardous atmospheres as defined under Article 500 of the National Electrical Code (NEC). Multi-position wall bracket and secondary safety support cable included. UL Listed conduit box supplied for hardwiring.

WARNING: Fan not appropriate for use where paint residue can accumulate on motor or blade.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Item No.
24 in	1	5,486 cfm	115/230 V AC	¼ hp	1140	6.0/2.9	TEFC	Wall	**1VCH1**
30 in	1	10,937 cfm	115/230 V AC	¾ hp	1140	7.0/3.5	TEFC	Wall	**1VCH2**
36 in	1	12,500 cfm	115/230 V AC	¾ hp	1140	7.0/3.5	TEFC	Wall	**1VCH3**

1VCH1

Corrosion-Resistant Industrial Wall-Mount Fans

Dayton

- Non-oscillating

Withstand exposure to moisture to allow operation in wet or humid areas without damage to the fan. Indoor uses include regulating temperature in greenhouses to optimize plant growth and ventilating livestock buildings to prevent heat stress in animals and reduce the buildup of moisture, manure gases, pathogens, and dust. Also used as outdoor fans for cooling people in pool areas and other high-moisture locations.

1ZCN7 and 1ZCN8 feature OSHA-compliant wire guards.

49YW49 to 49YW51 feature wide-spaced wire guards to help prevent clogging.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	Fan Mounting Location	Cord Length	Includes	Item No.
18 in	1	2,875 cfm	115 V AC	⅟₁₅ hp	1650	1.2	TEAO	Ceiling	10 ft	S Hooks & Mounting Chains	**1ZCN7**
	3	1,500/1,700/1,850 cfm	115 V AC	⅟₁₂ hp	1550	0.9	75	Ceiling, IBeam, Wall	9 ft	Mounting Accessory	**49YW49**
20 in	3	1,850/1,700/1,500 cfm	115/230 V AC	⅒ hp	1700	1.0/.5	100	Ceiling, IBeam, Wall	9 ft.	Mounting Accessory	**49YW50**
24 in	1	6,400 cfm	115 V AC	¼ hp	1100	2.8	TEAO	Ceiling	10 ft	S Hooks & Mounting Chains	**1ZCN8**
	3	3,450/3,790/3,850 cfm	115/230 V AC	⅓ hp	1725	3.5/1.7	336	Ceiling, IBeam, Wall	9 ft	Mounting Accessory	**49YW51**

1ZCN7

High-Velocity Industrial Wall-Mount Fans

PATTERSON THE AUTHORITY IN AIR MOVEMENT

- Ball bearings
- OSHA-compliant wire guards

High-rpm motor and tubular housing push air at high speeds over long distances. 1-phase fans have 12-ft. power cord; 3-phase fans are hardwired. For a 75° sweep, add optional Oscillator Assembly 13F720, available at Grainger.com®.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	Phase	RPM	Amps	Motor Encl.	WITH MOUNTING YOKE & WALL/ CEILING MOUNTING BRACKET Item No.	WITH CEILING SUSPENSION BOLTS Item No.	WITH MOUNTING YOKE & DOCK MOUNTING BRACKET Item No.
10 in	2	600/800 cfm	115 V AC	⅛ hp	1	1300/1550	0.8	TEAO	**349JV1**	—	—
14 in	1	2,600 cfm	115/208-230 V AC	¼ hp	1	1725	2.8/1.45-1.4	TEAO	**7J700**	**7J711**	**7J722**
	1	2,600 cfm	208-230/460 V AC	¼ hp	3	1725	1.5-1.4/.75	TEAO	**7J701**	**7J712**	**7J723**
18 in	1	3,800 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	**7J702**	**7J713**	**7J724**
	1	3,800 cfm	208-230/460 V AC	½ hp	3	1725	2.4-2.3/1.2	TEAO	**7J703**	**7J714**	**7J725**
22 in	1	5,570 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	**7J704**	**7J715**	—
	1	5,570 cfm	208-230/460 V AC	½ hp	3	1725	2.4-2.3/1.2	TEAO	**7J705**	**7J716**	—
26 in	1	7,650 cfm	115/208-230 V AC	1 hp	1	1725	13.4/6.8-6.7	TEFC	**7J706**	**7J717**	—
	1	7,650 cfm	208-230/460 V AC	1 hp	3	1725	1.8/ 3.6-3.5	TEAO	**7J707**	**7J718**	—
34 in	1	17,000 cfm	208-230/460 V AC	3 hp	3	1165	9.9-9.2/4.6	TEAO	**7J710**	**7J721**	—

7J700

7J711

7J722

39UK52

39UK54

Dayton

Light-Duty Industrial Mobile Floor Fans

- Ball bearings
- OSHA-compliant wire guards

Fans cool light manufacturing areas, warehouses, and other dry, clean spaces.

Light Duty—Move high volumes of directed airflow at low velocity.

Light-Duty Quiet-Design—Provide high-velocity air flow in quiet settings. Fan head tilts to direct air flow.

Portable Tilt Carriage Kits—Kits provide support for the fan head while allowing it to be angled for directing airflow. They can be rolled between locations using the wheels or casters originally supplied with the fan.

Ceiling Mount Kit—Allows fan heads to attach to a wall, ceiling, or post for circulating air right where it's needed.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Item No.
Light-Duty												
24 in	2	4,150/6,200 cfm	115 V AC	⅓ hp	1100/850	3.6/3.2	OPAO	27 ½ in	27 ½ in	20 in	10 ft	**39UK52**
30 in	2	7,070/9,700 cfm	115 V AC	½ hp	850/750	5.2/4.2	OPAO	33 ½ in	33 in	21 in	10 ft	**39UK53**
36 in	2	9,200/12,550 cfm	115 V AC	½ hp	750/650	5.2/4.9	OPAO	39 in	38 ½ in	20 ½ in	10 ft	**39UK56**
42 in	2	12,500/16,800 cfm	115 V AC	¾ hp	850/750	7.9/6.0	OPAO	44 ½ in	44 ¾ in	20 ¾ in	10 ft	**45LW12**
Light-Duty Quiet-Design												
24 in	3	2,280/4,320/5,030 cfm	115 V AC	¼ hp	1025/880/480	1.8/1.5/1	TEAO	28 ¾ in	27 in	12 in	10 ft	**6AGY9**
30 in	3	3,450/6,090/7,450 cfm	115 V AC	¼ hp	1010/860/530	1.8/1.4/1	TEAO	36 ½ in	33 ¾ in	12 ¼ in	8 ft	**6AGZ0**

For Use With	Item No.
Portable Tilt Carriage Kits	
39UK52	**39UK54**
39UK53	**39UK57**
39UK56	**39UK55**
45LW12	**45LW13**
Ceiling Mount Kit	
39UK52, 39UK53, 39UK56, 45LW12	**45LW15**

1YNW5

699W08

Dayton · BIG ASS FANS · SCHAEFER · airmaster Fans

Standard-Duty Industrial Mobile Floor Fans

- OSHA-compliant wire guards

Fans cool heavy manufacturing areas and other dusty or dirty environments.

DAYTON

- Ball bearings

Fans move high volumes of directed air flow and tilt 360°. 31XL41 and 31XL42 have maintenance-free brushless DC EC (electrically commutated) motors; others have PSC. All fans include cord wrap, handle, and 7" rubber wheels.

BIG ASS FANS

55FF66—has 360° rotation and 40° tilt. Features ball bearings and a rolling pedestal mount for mobility. For use in unconditioned spaces, areas with low ceilings and obstructions, long, narrow aisles or rooms, and harsh environments.

699W08—has a quiet, energy-efficient direct-drive motor and double-sealed ball bearings. Fits through standard inside doors, has handles on both sides, and indoor/outdoor rubber wheels.

SCHAEFER

- Maintenance-free PSC motor
- Sealed ball bearings

Drum-style fan has stacking tabs and cart with rubberized wheels and a grounded cord.

AIRMASTER FAN

- Sealed ball bearings

Maintenance-free EC (electrically commutated) IP56 motor. Includes a handle and cord wrap on each side, 8" rubber wheels, and locking casters.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Brand	Mfr. Model	Item No.
Belt Drive														
36 in	2	9,000/14,000 cfm	120 V AC	1 hp	1100/800	7.9/6.0	OPAO	42 in	46 in	23 in	9 ft	Dayton	1YNW7	**1YNW7**
42 in	2	10,000/18,000 cfm	120 V AC	1 hp	1100/800	7.0/6.0	OPAO	47 5⁄16 in	51 1⁄16 in	22 ½ in	9 ft	Dayton	1YNW8	**1YNW8**
Direct Drive														
18 in	1	—	115 V AC	⅓ hp	—	—	—	—	—	—	—	Big Ass Fans	F-SB1-0101L9S34	**55FF66**
24 in	2	3,600/5,800 cfm	120 V AC	⅓ hp	850/700	3.9/2.6	OPAO	28 in	34 ¼ in	17 in	9 ft	Dayton	1YNW3	**1YNW3**
24 in	Variable	7,000 cfm	115 V AC	¼ hp	250/1200	0.1/3.1	TEAO	31 ⅜ in	30 15⁄16 in	13 ½ in	9 ft	Dayton	31XL41	**31XL41**
30 in	2	4,700/6,900 cfm	120 V AC	⅓ hp	860/725	3.9/2.5	OPAO	35 ¼ in	39 in	20 in	9 ft	Dayton	1YNW4	**1YNW4**
36 in	2	8,350/12,250 cfm	120 V AC	½ hp	850/750	5.3/4.7	TEAO	40 5⁄16 in	46 in	20 ¼ in	9 ft	Dayton	1YNW5	**1YNW5**
36 in	2	10,900/16,600 cfm	115 V AC	½ hp	1075/850	5.2/3.5	TEAO	39 ¾ in	40 ¾ in	19 ¾ in	12 ft	Schaefer	VKM36-2-B-O	**33TD77**
36 in	Variable	15,000 cfm	115 V AC	½ hp	150/850	0.2/5.2	TEAO	45 ¼ in	42 in	20 in	9 ft	Dayton	31XL42	**31XL42**
42 in	2	9,000/15,000 cfm	120 V AC	½ hp	825/600	5.5/4.9	TEAO	46 5⁄16 in	51 ½ in	20 ¼ in	9 ft	Dayton	1YNW6	**1YNW6**
42 in	Variable	1,525/15,250 cfm	115 to 120 V AC	1 hp	466	4.5	TEFC	49 in	45 in	22 in	10 ft	Airmaster Fan	EC42DD	**205GD4**
72 in	Variable	—	110-125 V AC	⅔ hp	291	4.7	ODP	—	—	—	—	Big Ass Fans	F-BJ1-0601	**699W08**

2RDZ1

699W07

Dayton · BIG ASS FANS

Outdoor High-Visibility Industrial Mobile Floor Fans

- Sealed ball bearings
- OSHA-compliant wire guards

Water-resistant fans have a safety-yellow finish that attracts attention to help prevent accidental damage to the fan. Commonly used for cooling high-traffic areas where forklifts and other vehicles are used as well as low-light areas where fans may be difficult to see.

Dayton—Fans move air in outdoor environments, such as construction sites, athletic fields, and open-air loading docks. Water-resistant motors have automatic thermal overload protection. Equipped with tubular steel frame, 8" dia. rubber wheels, and sturdy tilting wheel kit for directing air flow. Units feature 4" base feet, built-in cord wrap, and handle. Foot and wheel assembly is required.

Big Ass Fans—Quiet, energy-efficient, high volume/low speed (HVLS) fan. Typically used for event spaces and work areas. Features 360° head rotation with 16 selectable cage positions. Washdown design for easier cleaning.

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	Motor Encl.	H	W	D	Cord Length	Mfr. Model	Item No.
Dayton, Outdoor													
24 in	2	3,600/5,800 cfm	120 V AC	⅓ hp	850/725	3.4/2.2	TEAO	32 in	32 in	15 in	9 ft	2RDZ1	**2RDZ1**
30 in	2	4,700/6,900 cfm	120 V AC	⅓ hp	850/700	3.4/2.4	TEAO	39 in	36 in	15 in	9 ft	2RDZ2	**2RDZ2**
36 in	2	8,350/12,250 cfm	120 V AC	½ hp	825/650	5.3/4.9	TEAO	43 in	43 in	15 in	9 ft	2RDZ3	**2RDZ3**
42 in	2	9,000/15,000 cfm	120 V AC	½ hp	850/700	5.3/4.6	TEAO	50 in	50 in	20 in	9 ft	2RDZ4	**2RDZ4**
Big Ass Fans, Indoor/Outdoor													
96 in	Variable	—	110-125 V AC	⅔ hp	180	12	ODP	—	—	—	—	F-AG2-0801	**699W07**

Dayton® Multifan

Corrosion-Resistant Industrial Mobile and Stationary Floor Fans

- OSHA-compliant wire guards

Fans withstand exposure to moisture to allow operation in wet or humid areas without damage to the fan. They have a totally enclosed motor to keep out water and debris.

Dayton—Fans feature nonskid legs, rubber wheels, and large handle.

- Ball bearings

Multifan—Models can also dry carpet.

- Sealed ball bearings

6ALE4

2FTZ3

Blade Dia.	No. of Speeds	Air Flow	Voltage	Motor HP	RPM	Amps	H	W	D	Cord Length	Mfr. Model	Item No.
Dayton, Mobile												
36 in	1	12,800 cfm	120 V AC	½ hp	830	5.3	39 in	38 in	19 ½ in	10 ft.	6ALE5	**6ALE5**
48 in	1	21,000 cfm	120 V AC	1 hp	850	8.7	52 in	51 ½ in	21 in	10 ft.	6ALE4	**6ALE4**
Multifan, Stationary												
16 in	1	3,250 cfm	120 V AC	¼ hp	1600	2.6	20 ½ in	20 ½ in	17 ½ in	10 ft.	B4E4003M11100P	**2FTZ3**
20 in	1	4,800 cfm	120 V AC	⅓ hp	1600	3.6	24 ½ in	24 ½ in	17 ½ in	10 ft.	B4E5003M11100P	**2FTZ8**

PATTERSON THE AUTHORITY IN AIR MOVEMENT

High-Velocity Industrial Mobile Floor Fans

- Ball bearings
- OSHA-compliant wire guards

High-rpm motor and a tubular housing push air at higher speeds over longer distances than fans with a standard open-housing design. Provide more coverage than a typical industrial fan for cooling long aisles and large areas in warehouses and manufacturing plants. 115VAC models include factory-wired 12-ft. cord with plug. 3-phase models require hardwiring.

1-Speed Fans—Fans include a mobile tilting pedestal with wheels (except 7J736 has a pedestal base).

3-Speed Fans—Used for people and process cooling and general air circulation. Units have 6" casters and easy-to-grip handle.

7J726

13F723

Blade Dia.	Air Flow	Voltage	Motor HP	Phase	RPM	Amps	Motor Encl.	H†	W	D	Item No.
1-Speed Fans with Mobile Tilting Pedestal											
14 in	2,600 cfm	115/208-230 V AC	¼ hp	1	—	—	TEAO	20 in	20 in	—	**7J726**
	2,600 cfm	208-230/460 V AC	¼ hp	3	—	—	TEAO	20 in	20 in	—	**7J727**
18 in	3,800 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	24 in	24 in	16 in	**7J728**
	3,800 cfm	208-230/460 V AC	½ hp	3	—	—	TEAO	24 in	24 in	—	**7J729**
22 in	5,570 cfm	115/208-230 V AC	½ hp	1	1725	6.0/3.0-2.9	TEAO	29 in	29 in	16 in	**7J730**
	5,570 cfm	208-230/460 V AC	½ hp	3	1725	2.4-2.3/1.2	TEAO	29 in	29 in	16 in	**7J731**
26 in	7,650 cfm	115/208-230 V AC	1 hp	1	1725	13.4/6.8-6.7	TEFC	33 in	33 in	18 ½ in	**7J732**
	7,650 cfm	208-230/460 V AC	1 hp	3	1725	1.8/ 3.6-3.5	TEAO	33 in	33 in	18 ½ in	**7J733**
34 in	17,000 cfm	208-230/460 V AC	3 hp	3	1165	9.9-9.2/4.6	TEAO	43 ½ in	43 ½ in	25 ½ in	**7J736** *
3-Speed Fans with 6" Semi-Pneumatic Casters											
30 in	6,200/6,800/7,500 cfm	115 V AC	½ hp	1	1725	5.8/5.25/5.2	ODP	37 in	37 in	15 ¼ in	**13F723**
34 in	8,700/9,200/10,000 cfm	115 V AC	½ hp	1	1725	5.6/4.8/4.6	ODP	43 ½ in	43 ½ in	14 ¾ in	**13F724**

*** Pedestal base, no wheels. † Fan height, without mobile tilting pedestal.***

POWER BREEZER™

Portable Misting Coolers

- 85-gal. water capacity
- Oscillating head
- Integrated water tank

Circulate atomized water vapor that mixes with surrounding air to cool and humidify it. Coolers help regulate temperatures to protect workers from heat stress and reduce the risk of damage to machinery and products. They require no filters, no connection to ductwork, and have a large tank that supplies water for spot-cooling indoor production lines and warehouses or outdoor sporting events and festivals. Locking casters ease maneuverability from room to room. Optional ducting 55MU73 helps direct cooling mist to specific areas where it's needed.

55MU73
Ducting Only

788N80

Description	Blade Dia.	No. of Speeds	Cooling Cap.	Air Flow	Voltage	H	W	Std.	Mfr. Model	Item No.
Power Breezer Mach 4+	23 in	8	30,800 BtuH	@10 ft. 22 mph; @20 ft. 14 mph; @40 ft. 7 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4BASE	**788N80**
Power Breezer Max+	23 in	8	65,600 BtuH	@10 ft. 22 mph; @20 ft. 14 mph; @40 ft. 7 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4MAX	**788N81**
Power Breezer Titan	23 in	8	126,500 BtuH	@10 ft. 19 mph; @20 ft. 11 mph; @40 ft. 6 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4TITAN	**788N79**

Description	Mfr. Model	Item No.
Ducting for Power Breezer Mach 4+	600-070-A	**55MU73**

Find more Industrial Ceiling Fans on Grainger.com®

56FJ70

488V19

Industrial Ceiling Fans

- 120VAC
- Plastic blades
- 18" downrod

Fans combine a traditional ceiling fan appearance and an industrial-duty build for circulating air in manufacturing plants and large commercial settings. Made of heavier-gauge materials than decorative office or residential ceiling fans. A mounting bracket is included for attaching to a ceiling. 488V20 includes a 3-speed wall control. Optional adjustable fan controls sold separately, this page.

Additional ceiling fans available on Grainger.com.

Blade Dia.	No. of Speeds	Air Flow	RPM	Amps	Reversible	Max. Mounting Height	Housing Color	No. of Blades	Mfr. Model	Item No.
Light-Duty Indoor Industrial Ceiling Fan										
60 in	3	6,619 cfm	258/154/108/80 RPM	0.97 A	No	30 ft	White	3	INDC600DP	**488V20**
Light-Duty Indoor/Outdoor Industrial Ceiling Fans, Series EMoisture Resistant										
56 in	Variable	28,000 cfm	320 RPM	0.7 A	Yes	21 ft	Black	3	INDB56MR4LPB	**56FJ70**
60 in	Variable	5,797 cfm	280 RPM	0.7 A	Yes	30 ft	Black	3	INDB60MR4LPB	**56FJ71**
Light-Duty Indoor/Outdoor Industrial Ceiling Fans										
56 in	Variable	28,000 cfm	320 RPM	0.7 A	Yes	21 ft	White	3	INDB56MR4LP	**488V19**
60 in	Variable	5,797 cfm	280 RPM	1.1 A	Yes	30 ft	White	3	INDB60MR4LP	**488V24**

493Z85

Industrial HVLS (High-Volume Low-Speed) Ceiling Fans

- Variable speed
- Reversible
- Aluminum airfoil blades
- Wall-mounted keypad
- Fire control panel integration

Feature long, specialized blades that move large volumes of air while rotating at a low speed. Operate with minimal noise to avoid creating disruptions and generate gentle airflow, making them ideal for cooling athletic facilities, retail spaces, garages, and factories. Sealed industrial-grade motor and gearbox to withstand harsh conditions. Controller has onboard NEMA 4X VFD to eliminate RFI/EMI noise. Include a mounting bracket. Additional models available on Grainger.com.

Blade Dia.	Voltage	Phase	RPM	Amps	Max. Mounting Height	No. of Blades	Mfr. Model	Item No.
8 ft	200 to 240 V AC	3	191 RPM	5 A	10 to 45 ft	6	F-PF62-0803S34X2	**493Z84**
12 ft	200 to 240 V AC	3	135 RPM	5 A	10 to 45 ft	6	F-PF62-1203S34X2	**493Z85**
16 ft	200 to 240 V AC	3	98 RPM	8.1 A	10 to 45 ft	6	F-PF62-1603S34X2	**493Z86**
20 ft	200 to 240 V AC	3	76 RPM	8.1 A	10 to 45 ft	6	F-PF62-2003S34S65X2	**493Z87**

55KR39

Industrial Low-Profile Blower-Style Ceiling Fans

- Single-speed
- 12⅛"H x 35"W x 18$\frac{5}{16}$"D
- 60dBA

Quiet, compact fans require less space than other industrial fans and allow for more headroom in distribution and fulfillment centers. Double blower evenly distributes two columns of air to cool the area. Mounting bracket included; 55KR41 also includes a 10-ft. pigtail.

Air Flow	Voltage	RPM	Amps	Mfr. Model	Item No.
3,075 cfm	120 V AC	1725	4.2	DB-A	**55KR39**
3,075 cfm	460 V AC	1725	0.5	DB-B	**55KR40**
3,075 cfm	277 V AC	1725	2.1	DB-C	**55KR41**

Adjustable Fan Controls

- 120V

Use with Dayton and other compatible speed-controllable commercial and industrial ceiling fans. Controls fit single gang box.

Note: When any solid-state motor speed control is used, a humming noise may be present in fan on low speed. This hum in no way affects fan operation and is acceptable in most industrial installations.

Description	Max. Amps	Plate Color	H (in.)	W (in.)	D (in.)	Brand	Item No.
Rotary Fan Speed Control	3 A	Silver	4 ½ in	2 ¾ in	1 ⅜ in	Dayton	**22PP72**
	8 A	Black/Silver	4 ½ in	2 ¾ in	1 ¼ in	Dayton	**22PP73**
	12 A	Black/Silver	4 ½ in	4 ½ in	1 ¼ in	Dayton	**22PP74**
Rotary Fan Speed Control with Forward/Reverse Switch	5 A	Silver	5 in	3 in	2 in	VES	**5NRA4**

22PP73

5NRA4

Dayton

Non-Oscillating Office Pedestal Fans

1ANZ7

- 3-speed
- 120VAC
- OSHA-compliant guards
- 9-ft. power cord

Fixed fan head to focus cooling on one area in clean, dry environments. The fan head can adjust to point in any direction and will remain that way until manually readjusted. Pedestal height is adjustable. Wheeled base provides portability.

Blade Dia.	Air Flow	H	W	Color	Item No.
16 in	1800/2100/2450 cfm	Adj 48 to 58 in	20 in	Black	**2LY94**
20 in	2700/3150/3650 cfm	Adj 52 to 62 in	24 in	Black	**1ANZ7**

4CH68

2LY89

Air King Ventilation Products

Dayton

Office Floor Fans

- 3-speed
- 120VAC
- OSHA-compliant guards

Wide support base resists tipping over, even when bumped. Lightweight and portable to carry where needed. Heads can be tilted and positioned to direct air flow.

Floor or Wall-Mount—3GXW8 includes multifunction remote control. 3GXW8 and 4CH68 have a carrying handle with wall-mount option built into base. 19RR53 includes remote control and wall-mount plate.

Floor, Wall-, or Ceiling-Mount—Fans include a wall and ceiling bracket.

Blade Dia.	Air Flow	H	W	D	Cord Length	Brand	Mfr. Model	Item No.
Floor or Wall-Mount								
20 in	1570/2055/2470 cfm	24 ⅛ in	6 ¾ in	—	6 ft.	Air King	9505	**3GXW8**
20 in	1570/2055/2470 cfm	24 ¾ in	6 ¾ in	—	6 ft.	Air King	9500	**4CH68**
20 in	2460/2590/2815 cfm	22 in	7 in	—	6 ft.	Dayton	19RR53	**19RR53**
Floor, Wall-, or Ceiling-Mount								
12 in	600/800/1050 cfm	14 in	16 in	6 in	9 ft.	Dayton	2LY90	**2LY90**
16 in	1800/2100/2450 cfm	19 in	22 in	10 in	9 ft.	Dayton	2LY91	**2LY91**
20 in	2700/3150/3650 cfm	24 in	24 in	10 in	9 ft.	Dayton	2LY89	**2LY89**

Air King Ventilation Products

Office Box Fan and Stand

Box Fan—Slim square housing requires minimal floor space with a built-in handle for carrying and repositioning. Chemical-resistant 5-blade propeller. Ships fully assembled.

- 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Roll-About Fan Stand—Allows fan to be raised 26" or 28" off the floor. Locking tilt adjustment allows the fan head to rotate 360° to direct air flow. Fan not included.

(Fan & Stand Sold Separately)

Description	Blade Dia.	Air Flow	H	W	L	Mfr. Model	Item No.
3-Speed Box Fan	20 in	1463/1900/2163 cfm	22 ½ in	6 ⅜ in	21⅜"	9723	**4CH71**
Roll About Stand with 4" wheels			47 in	20 in	24 in	9701	**4CH70**

Air King Ventilation Products

Oscillating Office Pedestal Fans

48PY05

4CH63

- 3-speed
- 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Pivoting fan head turns 90° from side to side to blow air over a wide area in clean, dry environments. The fan head can also be locked in a fixed position for targeted cooling. Adjustable-height pedestal. 2EKZ1 and 2EKZ2 include remote control.

Blade Dia.	Air Flow	H	W	Color	Mfr. Model	Item No.
16 in	1000/1345/1555 cfm	53 in	18 in	Gray	9546	**2EKZ1**
16 in	1220/1420/1580 cfm	53 ¼ in	18 in	White with Gray Accents	9126	**4C945**
18 in	1360/1680/1955 cfm	50 ½ in	20 ¾ in	White	9880	**2EKZ2**
18 in	1380/1680/1950 cfm	53 ¾ in	20 ¼ in	Black	9118	**48PY05**
18 in	1380/1680/1950 cfm	54 ½ in	20 ¾ in	White	9119	**4CH63**

2EKZ4

24Y862

2EKZ5

2EKZ3

Air King Ventilation Products

Oscillating Office Tower Fans

- 3-speed
- 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Air Flow	H	W	Mfr. Model	Item No.
325/400/450 cfm	36 in	11 ¾ in	9210	**2EKZ4**
250/285/325 cfm	38 in	12 in	9519	**24Y862**
430/485/540 cfm	43 in	13 in	9554	**2EKZ5**
220/310/390 cfm	53 in	14 ½ in	9535	**2EKZ3**

Tall, slender fans can fit into corners and tight spaces to provide cooling while taking up minimal floor space. Wide-area oscillation for full-room coverage. Include multifunction remote control and electronic timer. 2EKZ5 features an air-purifying ionizer function.

Dayton

Mobile Office Floor Fans with Wheels

2MA11

2LY92

- 3-speed
- 120VAC
- Locking tilt adjustment
- OSHA-compliant guards
- 9-ft. power cord

Fans can be easily rolled from one location to another wherever cooling is needed. Wide support base helps keep them from tipping over, even when bumped.

Roll-About Stand—Tiltable fan is positioned on included stand approx. 4 ft. off the ground for optimal air movement and mobility.

Mobile Tilt Carriage—Lightweight fan can be tilted 360° to direct air where it's needed. Includes a carriage with handle for mobility.

Blade Dia.	Air Flow	H	W	D	Item No.
Roll-About Stand with 4" Wheels					
18 in	2050/2330/2650 cfm	48 in	26 in	25 in	**2LY93**
24 in	4200/4550/4950 cfm	52 in	34 in	29 in	**2LY92**
Mobile Tilt Carriage with 4" Plastic Casters					
24 in	4200/4500/4950 cfm	29 in	30 in	15 in	**2MA11**
30 in	5050/5750/6200 cfm	36 in	37 in	15 in	**2MA12**

1EFV9

60NH71

6C507

1EFV8

2EKZ8

38HX83

53KJ55

4C796

53KJ57

4CH69

35Z832

Desk Fans

CLIP-ON

Air King—1EFV9 has a swivel-action base that allows pivot and tilt. Base is removable for desktop use. 6C507 has tilting head.

- OSHA-compliant guards

Treva/02Cool—Healthcare fan is treated with an antimicrobial. Model rotates and pivots. FCC and RoHS compliant.

Dayton—Can be used as a clip-on or table fan.

COMPACT

Air King

- OSHA-compliant guards

Treva/02Cool—Healthcare fan 53KJ55 is treated with an antimicrobial. Model tilts and folds. 53KJ57 operates with batteries or included AC adapter. Both are FCC and RoHS compliant.

DESK

- OSHA-compliant guards

Fans oscillate 90° or lock in position. Tilting head.

PIVOTING

- OSHA-compliant guards
- 4TM65 and 35Z832 can be wall-mounted

4CH69 has 360° rotating head; 4TM65 has cord wrap and 112° rotating head. 35Z832 includes a remote control.

Blade Dia.	No. of Speeds	Air Flow	Fan Power Source	Cord Length	Fan Voltage	H	W	Brand	Mfr. Model	Item No.	
Clip-On											
Non-Oscillating											
1 ½ in	2	30/35 cfm	Plug-In	6 ft	120 V AC	18 ¼ in	8 in	Air King	9406	**1EFV9**	
5 in	2	159/82 cfm	Battery Operated	—	—	12 ⅝ in	2 ⅝ in	Treva/O2Cool	FC05807	**60NH71**	*
6 in	2	90/190 cfm	Plug-In	6 ft	120 V AC	11 ⅛ in	7 ¾ in	Air King	9145	**6C507**	
6 in	2	200/342 cfm	Plug-In	6 ft	120 V AC	10 ½ in	7 ⅞ in	Dayton	410C95	**410C95**	
Compact											
Oscillating											
1 ½ in	2	47/56 cfm	Plug-In	6 ft	120 V AC	14 ⅛ in	4 ¼ in	Air King	9400	**1EFV8**	
9 in	2	410/490 cfm	Plug-In	6 ft	120 V AC	16 ⅞ in	8 ⅛ in	Air King	9154	**4C523**	
Non-Oscillating											
3 in	2	116/144 cfm	Plug-In	6 ft	120 V AC	6 ½ in	5 ⅛ in	Air King	9904	**2EKZ8**	
3 ½ in	1	32 cfm	USB	4 ft	5 V DC	6 in	5 ¾ in	—	38HX82	**38HX82**	†
3 ½ in	1	32 cfm	USB	4 ft	5 V DC	6 in	5 ¾ in	—	38HX83	**38HX83**	†
5 in	2	235/153 cfm	Battery Operated	No Cord	3 V DC	6 ⅜ in	4 ⅜ in	Treva/O2Cool	FD05805	**53KJ55**	*
6 in	2	90/190 cfm	Plug-In	6 ft	120 V AC	9 ⅜ in	7 ¾ in	Air King	9146	**4C796**	
10 in	2	N/A	Battery Operated	—	9 V DC	12 ⅞ in	3 ¾ in	Treva/O2Cool	FD10802A	**53KJ57**	*
Desk											
Oscillating											
12 in	3	620/780/930 cfm	Plug-In	6 ft	120 V AC	19 in	10 ½ in	Air King	9102	**4DA35**	
16 in	3	1330/1500/1710 cfm	Plug-In	6 ft	120 V AC	22 ½ in	12 in	Air King	9106	**4DA36**	
Pivoting											
Non-Oscillating											
9 in	2	365/435 cfm	Plug-In	6 ft	120 V AC	13 in	5 ½ in	Air King	9525	**4CH69**	
9 in	3	520/610/700 cfm	Plug-In	6 ft	120 V AC	13 ¼ in	6 ½ in	Air King	9530	**4TM65**	
12 in	3	570/720/840 cfm	Plug-In	6 ft	120 V AC	15 ¼ in	15 ⅜ in	Air King	9637	**35Z832**	

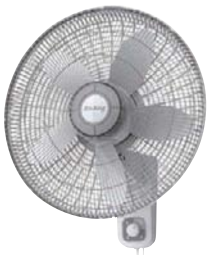
** Batteries not included. † 38HX82 is white; 38HX83 is black.*

Office Wall-Mount Fans

- 3-speed
- 120VAC
- OSHA-compliant guards
- 6-ft. power cord

Fans have an oscillating head that circulates air throughout a room. Include bracket for securing to a wall in busy areas or tight spaces. Rotary knob and pull cord operation. Impact- and chemical-resistant polypropylene propeller. 406D83 and 406D82 include a remote control. 2EKZ7 has push button and remote control and a 7½-hr. timer.

Blade Dia.	Air Flow	H	W	Mfr. Model	Item No.
12 in	700/800/940 cfm	20 ¾ in	14 ¼ in	9012	**4C630**
16 in	1000/1250/1350 cfm	21 ⅛ in	18 in	9650	**406D83**
16 in	1140/1340/1480 cfm	18 in	18 in	9046	**2EKZ7**
16 in	1190/1380/1510 cfm	22 ⅝ in	14 in	9016	**4C631**
18 in	1170/1520/1970 cfm	23 in	15 ½ in	9018	**4CH64**
18 in	1350/1540/1800 cfm	22 ½ in	20 ½ in	9850	**406D82**



4CH64

2ELA2

2EJR6

Office Window Fans

- 120VAC
- Manual controls
- Reversible
- Assembled
- OSHA-compliant guards
- 6-ft. power cord

Can be positioned to either bring outside air into a room or to exhaust odors, smoke, or stale air from a room.

2ELA2—Manually reversible twin fan has expander panels for a custom fit. Includes snap-on feet for table or floor use.

2EJR6—Electrically reversible motor reverses with the turn of a dial. Window can be closed behind fan during inclement weather.

Blade Dia.	No. of Speeds	Air Flow	Fits Window Height	Fits Window Width	H	W	D	Mfr. Model	Item No.
7 in	2	450/340 cfm	12 in	22 in to 34 in	10 ¾ in	21 ⅝ in	4 ¼ in	9137	**2ELA2**
16 in	3	1,360/1,700/2,470 cfm	22 in	26½ in to 34½ in	22 in	18 ¼ in	7 in	9155	**2EJR6**

Dayton

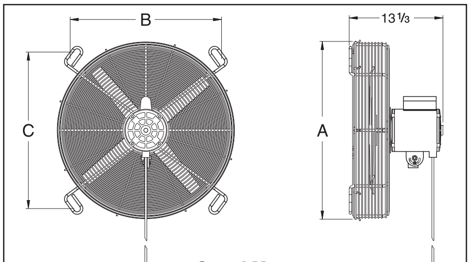
Guard- and Tubular-Mount Transformer Cooling Fans

- Totally enclosed motors
- Permanently lubricated sealed ball bearings
- OSHA-compliant wire guards

These fans blow air onto a transformer radiator to help regulate the temperature of an oil-cooled transformer. They help prevent overheating and reduce wear of transformers by circulating air around the radiator housing to speed cooling of oil within the radiator. Motor shaft with rust inhibitor treatment and shaft-end bearing slinger protect against dirt and moisture. Cast-aluminum propellers. Fans include weatherproof 15-ft. UL-Recognized power cord, factory prewired for 230V operation.

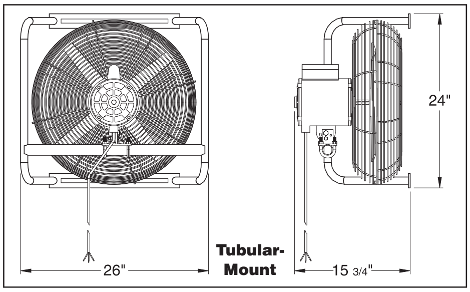
Guard-Mount—Have loops that connect to a separate guard-mount mounting kit for attaching to a transformer. Hot-dipped heavy galvanized steel guards. 2ATY1 mounting kit sold separately.

Tubular-Mount—Have a frame that mounts directly to a transformer. Zinc-plated wire guards. Mounting kit included.



Guard-Mount

Guard-Mount



Tubular-Mount

Tubular-Mount

Blade Dia.	Air Flow	Motor HP	RPM	Voltage	Phase	Amps	Dimensions A	Min. B	Max. B	Min. C	Max. C	Item No.
Guard-Mount												
16 in	3,100 cfm	¼ hp	1,140 RPM	115/230V AC	1	3.1/1.5	19 in	11 ¾ in	15 ¾ in	15 ¾ in	19 in	**13F050**
	3,100 cfm	¼ hp	1,140 RPM	208-230/460V AC	3	1.3-1.4/0.7	19 in	11 ¾ in	15 ¾ in	15 ¾ in	19 in	**13F056**
	4,590 cfm	¼ hp	1,725 RPM	115/230V AC	1	3.0/1.5	19 in	11 ¾ in	15 ¾ in	15 ¾ in	19 in	**2ATX6**
	4,590 cfm	¼ hp	1,725 RPM	208-230/460V AC	3	1.1-1.2/0.6	19 in	11 ¾ in	15 ¾ in	15 ¾ in	19 in	**13F053**
20 in	4,600 cfm	¼ hp	1,140 RPM	115/230V AC	1	3.1/1.5	23 in	17 ¾ in	21 ¼ in	18 ½ in	18 ½ in	**13F051**
	4,600 cfm	¼ hp	1,140 RPM	208-230/460V AC	3	1.3-1.4/0.7	23 in	17 ¾ in	21 ¼ in	18 ½ in	18 ½ in	**13F057**
	5,000 cfm	¼ hp	1,725 RPM	208-230/460V AC	3	1.1-1.2/0.6	23 in	17 ¾ in	21 ¼ in	18 ½ in	18 ½ in	**13F054**
	6,600 cfm	½ hp	1,725 RPM	115/230V AC	1	4.1/2.1	23 in	17 ¾ in	21 ¼ in	18 ½ in	18 ½ in	**2ATX7**
24 in	6,800 cfm	⅓ hp	1,140 RPM	115/230V AC	1	3.4/1.7	27 in	19 ⅞ in	23 ⅜ in	21 ½ in	21 ½ in	**13F052**
	6,800 cfm	⅓ hp	1,140 RPM	208-230/460V AC	3	1.5-1.6/0.8	27 in	19 ⅞ in	23 ⅜ in	21 ½ in	21 ½ in	**13F058**
	7,000 cfm	⅓ hp	1,725 RPM	208-230/460V AC	3	1.4-1.5/0.8	27 in	19 ⅞ in	23 ⅜ in	21 ½ in	21 ½ in	**13F055**
	7,900 cfm	½ hp	1,725 RPM	115/230V AC	1	4.7/2.4	27 in	19 ⅞ in	23 ⅜ in	21 ½ in	21 ½ in	**2ATX8**
Tubular-Mount												
20 in	6,599 cfm	½ hp	1,725 RPM	115/230V AC	1	4.1/2.1	—	—	—	—	—	**2ATX9**
Guard-Mount Transformer Cooling Fan Mounting Kit												
For Use With 13F050, 13F051, 13F052, 13F053, 13F054, 13F055, 13F056, 13F057, 13F058, 2ATX6, 2ATX7, 2ATX8												**2ATY1**

45PC81

4C586

MARADYNE MOBILE PRODUCTS

Vehicle Bolt-On DC Cooling Fans

- Hardwired
- Adjustable-position swivel
- Base-mounted control switch

Provide cooling for operators of trucks, forklifts, cranes, tractors, and other vehicles. Their base mounts directly to a dashboard or other surface inside a vehicle to aim airflow toward operators for personal cooling. These cooling fans can be used where there's access to a compatible DC power supply. Mounting hardware and gasket included.

Blade Dia.	No. of Speeds	Air Flow	Amps	Guard Material	Mfr. Model	Item No.
12V DC						
6 ½ in	1	220/270 cfm	2.5	Chrome Plated Steel	F-300012	**45NY34**
	2	140/210 cfm	1.7	Chrome Plated Steel	F-100012	**45PC81**
		220/270 cfm	2.7	Black Painted Steel	F-4670176	**45NY36**
		220/270 cfm	2.7	Chrome Plated Steel	F-920612	**45NY38**
		220/280 cfm	2.7/1.6	Chrome Plated Steel	F-320212	**4C586**
24V DC						
6 ½ in	1	220/270 cfm	1.3	Chrome Plated Steel	F-300024	**45NY35**
	2	220/270 cfm	1.3	Black Painted Steel	F-4670177	**45NY37**
		220/270 cfm	1.4	Chrome Plated Steel	F-920624	**45NY39**
		220/280 cfm	1.8/1.0	Chrome Plated Steel	F-320224	**4C587**

3PDR2

32PF41

MARADYNE MOBILE PRODUCTS

Vehicle DC Cooling Fans

- Vertical mount
- Totally enclosed motors
- Sleeve bearings
- Max. ambient temp.: 200°F
- 12VDC

Champion Series low-profile electric engine-cooling fans provide higher performance than belt- or clutch-driven fans. Reduce drag for improved fuel economy and horsepower. Provide max. heat transfer during low speeds and engine idle. Sealed fan motors are dust- and waterproof. Fans feature quiet, reversible S-blade design and all glass-filled nylon construction. Each has four 90° mounting feet, 8 rubber spacers, and 9" mating locking pigtail connector. 12", 14", and 16" fans have concentric retainer rings to keep blades from flattening out at high speed, maximizing air flow.

Blade Dia.	CFM @ 0.000" SP	Motor RPM	Full Load Amps	Mfr. Model	Item No.
5/64 hp Motor					
10 in	950 cfm	2600 to 3200	7.9	M103K	**3PDR2**
12 in	1,155 cfm	2600 to 3200	7.7	M123K	**3PDR3**
3/32 hp Motor					
14 in	1,555 cfm	2600 to 3200	10.1	M146K	**3PDR4**
16 in	1,810 cfm	2600 to 3200	12.3	M166K	**3PDR5**
3/16 hp Motor					
12 in	1,595 cfm	—	18	M122K	**32PF41**
16 in	2,170 cfm	2600 to 3200	18	M162K	**3PDR6**

Oblong
2RTK7

Square
4WT46

Skeleton
2VUW6

Dayton ebmpapst Hoffman

Oblong, Skeleton, and Square Compact Axial Fans

Used in dry locations to cool equipment within an enclosure. Fans require minimal space for installation and are typically installed where there's full access for mounting them against the interior of an enclosure.

Oblong—Feature an oblong housing that fits into a matching cutout.

Skeleton—Have mounting arms instead of a full housing so they require minimal space for installation.

Square—Fans have a square housing that can mount over a round cutout or fit into a square cutout.

Standard Square Axial Fan Kits—The square housing can mount over a round cutout or fit into a square cutout. Include an air filter, composite air plenum, finger guard, and grille.

H	D	W	CFM @ 0.000" SP	IP Rating	Housing Material	Mounting Eye O.C.	Sound Level	Bearing Type	Brand	Mfr. Model	Item No.	
Oblong, 115V AC, Lead Wires												
6 3/4 in	2 in	5 15/16 in	200/180	IP20	Aluminum	6 3/8 in	55/52	Ball	Dayton	2RTK7	**2RTK7**	
Oblong, 120V AC, Terminals												
6 3/4 in	2 in	5 15/16 in	197/232	IP33	Aluminum	6 3/8 in	59/63	Ball	Dayton	55VD26	**55VD26**	*
6 3/4 in	2 in	6 3/4 in	180/195	20	Cast Aluminum	6 3/8 in	56/60	Ball	Dayton	786EW7	**786EW7**	†
6 3/4 in	2 in	6 3/4 in	180/195	20	Cast Aluminum	6 3/8 in	56/60	Ball	Dayton	786EW8	**786EW8**	†
6 3/4 in	2 in	6 3/4 in	180/195	20	Cast Aluminum	6 3/8 in	56/60	Ball	Dayton	786EW9	**786EW9**	‡
Oblong, 230V AC, Terminals												
6 3/4 in	2 in	5 15/16 in	196/229	IP33	Aluminum	6 3/8 in	59/62	Ball	Dayton	55VD35	**55VD35**	*
Skeleton, 115V AC, Lead Wires												
4 7/16 in	1 1/2 in	4 7/16 in	110/92	IP20	Aluminum	4 1/8 in	50/45	Ball	Dayton	2VUW4	**2VUW4**	
4 7/16 in	1 1/2 in	4 7/16 in	105/80	IP20	Aluminum	4 1/8 in	45/39	Sleeve	Dayton	2VUW5	**2VUW5**	
4 7/16 in	1 1/2 in	4 7/16 in	105/80	IP20	Aluminum	4 1/8 in	47/41	Ball	Dayton	2VUW6	**2VUW6**	
Skeleton, 230V AC, Lead Wires												
4 7/16 in	1 1/2 in	4 7/16 in	110/92	IP20	Aluminum	4 1/8 in	50/45	Ball	Dayton	2VUW8	**2VUW8**	
Square, 115V AC, Lead Wires												
2 3/8 in	1 in	2 3/8 in	18/17.5	IP20	PBT Plastic	1 15/16 in	31/30	Zero Friction Air	Dayton	2RTE4	**2RTE4**	
3 1/8 in	1 1/2 in	3 1/8 in	30/23	IP20	Cast Aluminum	2 13/16 in	35/31	Sleeve	Dayton	4WT40	**4WT40**	
3 1/8 in	1 in	3 1/8 in	41/40	IP20	PBT Plastic	2 13/16 in	33/32	Zero Friction Air	Dayton	2RTE8	**2RTE8**	
Square, 115V AC, Terminals												
4 11/16 in	1 1/2 in	4 11/16 in	115/95	IP20	Cast Aluminum	4 1/8 in	49/44	Sleeve	Dayton	4WT46	**4WT46**	*
4 11/16 in	1 1/2 in	4 11/16 in	117/97	IP20	Cast Aluminum	4 1/8 in	50/45	Ball	Dayton	6KD75	**6KD75**	*
4 11/16 in	1 1/2 in	4 11/16 in	124/112	IP20	Aluminum	4 1/8 in	47/44	Ball	Dayton	2RTK6	**2RTK6**	*
4 11/16 in	1 1/2 in	4 11/16 in	102/92	IP20	Cast Aluminum	4 1/8 in	48/45	Ball	Dayton	3VU65	**3VU65**	*
4 11/16 in	1 1/2 in	4 11/16 in	55/72	IP20	Cast Aluminum	4 1/8 in	36/33.5	Sleezzzzve	Dayton	4WT49	**4WT49**	*
4 11/16 in	1 1/2 in	4 11/16 in	70/76	IP20	Cast Aluminum	4 1/8 in	36/38	Sleeve	Dayton	4WT48	**4WT48**	*
4 11/16 in	1 1/2 in	4 11/16 in	115/95	IP20	Aluminum	4 1/8 in	49/44	Sleeve	Dayton	2RTD1	**2RTD1**	*
4 11/16 in	1 1/2 in	4 11/16 in	106	IP20	Fiberglass Reinforced Polyester	4 1/8 in	42	Ball	ebm-papst	ACi4410HH	**40N384**	*
4 11/16 in	1 1/2 in	4 11/16 in	93	IP33	PBT Plastic	4 1/8 in	49	Sleeve	Dayton	55VD27	**55VD27**	*
6 15/16 in	3 1/2 in	6 15/16 in	355/315	IP20	Cast Aluminum	6 in	66/62	Ball	Dayton	3VU66	**3VU66**	*
8 7/8 in	3 1/8 in	8 7/8 in	606	IP44	Cast Aluminum	9 7/16 in	61	Ball	ebm-papst	W2E200-HK86-01	**5AGC8**	
11 in	3 1/8 in	11 in	1100	IP44	Cast Aluminum	11 5/8 in	73	Ball	ebm-papst	W2E250-HJ32-01	**5AGD4**	
Square, 120V AC, Terminals												
4 11/16 in	1 1/2 in	4 11/16 in	99	IP33	Aluminum	4 1/8 in	50	Sleeve	Dayton	55VD37	**55VD37**	*
4 11/16 in	1 1/2 in	4 11/16 in	99	IP33	Aluminum	4 1/8 in	50	Ball	Dayton	55VD38	**55VD38**	*
Square, 12V DC, Lead Wires												
2 3/8 in	1 in	2 3/8 in	40	IP20	PBT Plastic	1 15/16 in	45	Zero Friction Air	Dayton	2RTF9	**2RTF9**	
3 1/8 in	1 in	3 1/8 in	36.5	IP20	PBT Plastic	2 13/16 in	31	Sleeve	Dayton	4WT35	**4WT35**	
3 1/8 in	1 in	3 1/8 in	37	IP20	PBT Plastic	2 13/16 in	30	Ball	Dayton	6KD68	**6KD68**	
3 5/8 in	1 in	3 5/8 in	48	IP20	PBT Plastic	3 1/4 in	32	Ball	Dayton	6KD69	**6KD69**	
4 11/16 in	1 1/2 in	4 11/16 in	138	IP20	PBT Plastic	4 1/8 in	48	Ball	Dayton	6KD70	**6KD70**	
Square, 230V AC, Terminals												
4 11/16 in	1 1/2 in	4 11/16 in	105/85	IP20	Cast Aluminum	4 1/8 in	48/43	Sleeve	Dayton	4WT33	**4WT33**	*
4 11/16 in	1 1/2 in	4 11/16 in	107/87	IP20	Cast Aluminum	4 1/8 in	50/45	Ball	Dayton	3LE74	**3LE74**	*
4 11/16 in	1 1/2 in	4 11/16 in	117/97	IP20	Aluminum	4 1/8 in	50/45	Ball	Dayton	2RTE1	**2RTE1**	*
4 11/16 in	1 1/2 in	4 11/16 in	115/95	IP20	Aluminum	4 1/8 in	49/44	Sleeve	Dayton	2RTD9	**2RTD9**	*
8 7/8 in	3 1/8 in	8 7/8 in	606	IP44	Cast Aluminum	9 7/16 in	61	Ball	ebm-papst	W2E200-HK38-01	**5AGC9**	
Square, 24V DC, Lead Wires												
2 3/8 in	1 in	2 3/8 in	31.5	IP20	PBT Plastic	1 31/32 in	41	Zero Friction Air	Dayton	2RTH1	**2RTH1**	
2 3/8 in	1 in	2 3/8 in	19.3	IP20	PBT Plastic	1 15/16 in	30	Ball	Dayton	6KD71	**6KD71**	
3 1/8 in	1 1/2 in	3 1/8 in	84	IP20	PBT Plastic	2 13/16 in	55.2	Ball	Dayton	2RTH6	**2RTH6**	
3 5/8 in	1 1/2 in	3 5/8 in	123	IP20	PBT Plastic	3 1/4 in	57.6	Ball	Dayton	2RTJ3	**2RTJ3**	
3 5/8 in	1 in	3 5/8 in	45	IP20	PBT Plastic	3 1/4 in	33	Ball	Dayton	6KD73	**6KD73**	
4 11/16 in	1 1/2 in	4 11/16 in	138	IP20	PBT Plastic	4 1/8 in	48	Ball	Dayton	6KD74	**6KD74**	
4 11/16 in	1 1/2 in	4 11/16 in	170	IP20	PBT Plastic	4 1/8 in	51	Ball	Dayton	2RTJ7	**2RTJ7**	
4 11/16 in	1 1/2 in	4 11/16 in	230	IP20	Aluminum	4 1/8 in	70	Ball	ebm-papst	4114NH5	**5AGA3**	
4 21/32 in	1 1/2 in	4 2/3 in	259	IP20	Aluminum	4 1/8 in	73	Ball	ebm-papst	4114NH6	**5AGA4**	
4 21/32 in	1 1/2 in	4 2/3 in	209	IP20	Aluminum	4 1/8 in	67	Ball	ebm-papst	4114NH4	**5AGA2**	
Square, 24V DC, Terminals												
8 7/8 in	3 1/8 in	8 7/8 in	642	IP42	Cast Aluminum	9 7/16 in	60	Ball	ebm-papst	W1G200-HH77-52	**5AGA7**	
Standard Square Axial Fan Kits, 115V AC, Lead Wires												
6 2/7 in	2 2/3 in	7 3/8 in	45/55		Composite	4 1/8 in	37/41	Ball	Hoffman	TFP41	**216PD0**	
7 4/5 in	3 3/4 in	8 7/8 in	117/140		Composite	4 1/2 in	50/56	Ball	Hoffman	TFP61	**216PC9**	
11 4/5 in	5 1/4 in	13 in	180/215		Composite	6 7/8 in	54/61	Ball	Hoffman	TFP101	**216PC8**	

** Requires Cord Set (Not Included). † Includes Wire Guard. ‡ Includes Filter and Guard.*

Thermostat

RITTAL

This device senses temperatures within an enclosure and automatically turns compact axial fans on and off based on temperature setpoints. Thermostat has a sensor that monitors temperatures and a dial for adjusting the temperature when fans turn on and off. Model connects to a fan and mounts vertically or horizontally within an enclosure on a support rail or mounting plate.

Min. Temp. Rating	Max. Temp. Rating	Voltage	Includes	Mfr. Model	Item No.
41°F	140°F	115/230V AC, 24-60V DC	Terminal Strip for Easy Wiring	3110000	**2PVG4**

Dayton

Cord Sets

4YD79

Plug Head Config.	L	Voltage	NEMA Plug Config.	Item No.	
Cord Set With Plug					
45 °	72 in	115V AC	1-15P	**3RP14**	
90 °	72 in	115V AC	5-15P w/ Ground Lead	**4YD81**	*
Cord Set With Wire Leads					
45 °	24 in	115/230V AC	Hardwire	**3RP10**	
45 °	36 in	115/230V AC	Hardwire	**3RP12**	
90 °	24 in	115/230V AC	Hardwire	**4YD79**	

** Includes integral 3" ground wire with ring terminal.*

Dia.	D	CFM @ 0.000" SP	IP Rating	Housing Material	Mounting Eye O.C.	Sound Level	Includes	Requires	Brand	Mfr. Model	Item No.
115V AC, Lead Wires, Axial Fans											
5 ⅞ in	1 ½ in	240	None	Cast Aluminum	—	62.5	—	—	Hoffman	A6AXFN	**32FL13**
9 in	3 ½ in	560	None	Cast Aluminum	—	46/49	—	—	Hoffman	A10AXFN	**32FL09**
12 ½ in	3 ¾ in	1100	IP44	Galvanized Steel	11 ⅝ in	71	Inlet Grille	Run Capacitor 5AGK5, 12 MFD, 440V AC	ebm-papst	W2E250-CM08-70	**5AGD3** *
12 ½ in	3 ¾ in	1100	IP44	Galvanized Steel	11 ⅝ in	71	Discharge Grille	Run Capacitor 5AGK5, 12 MFD, 440V AC	ebm-papst	W2E250-CL08-70	**5AGD2** *
15 ⅝ in	4 ½ in	1710	IP44	Galvanized Steel	15 in	64	Discharge Grille	Run Capacitor 5AGK6, 14 MFD, 440V AC	ebm-papst	W4E315-CS22-70	**5AGD5** *
15 ⅝ in	4 ½ in	1710	IP44	Galvanized Steel	15 in	64	Inlet Grille	Run Capacitor 5AGK6, 14 MFD, 440V AC	ebm-papst	W4E315-CS22-71	**5AGD6** *
115V AC, Terminals, Axial Fans											
5 9⁄16 in	1 ½ in	190	IP22	Aluminum	—	57	—	3 MFD Capacitor	ebm-papst	W2E142-BB05-01	**36C497**
10 in	3 ½ in	800/870	IP20	Aluminum	9 11⁄16 in	70/68	—	Cord Set (Not Included)	Dayton	2RTK9	**2RTK9**
120V AC, Lead Wires, Axial Fans											
10 in	3 ½ in	447/530	IP33	Aluminum	9 11⁄16 in	50/54	—	—	Dayton	55VD33	**55VD33**
120V AC, Terminals, Axial Fan Kits											
10 in	3 ½ in	429/496	20	Cast Aluminum	9 11⁄16 in	52/58	Wire Guard	—	Dayton	786EW5	**786EW5**
120V AC, Terminals, Axial Fans											
6 ¾ in	2 in	197/230	IP33	Aluminum	6 ⅜ in	58/62	—	Cord Set (Not Included)	Dayton	55VD32	**55VD32**
10 in	3 ½ in	452/527	IP33	Aluminum	9 11⁄16 in	51/54	—	Cord Set (Not Included)	Dayton	55VD36	**55VD36**
230V AC, Lead Wires, Axial Fans											
10 in	3 ½ in	454/537	IP33	Aluminum	9 11⁄16 in	51/54	—	—	Dayton	55VD31	**55VD31**
20 ¾ in	4 ¾ in	2910	IP44	Galvanized Steel	19 ⅞ in	73	Inlet Grille	Run Capacitor 2MDY6, 5 MFD, 440V AC	ebm-papst	W4E400-CP02-71	**5AGD8** *
24V DC, Lead Wires, Axial Fans											
6 ¾ in	2 in	312	IP20	Metal	7 1⁄16 in	65	—	—	ebm-papst	DV6424	**5AFZ0**
12 ⅝ in	3 ½ in	1130	IP42	Cast Aluminum	9 ⅞ in	70	—	—	ebm-papst	W1G250-CI37-52	**5AGA9**

** Not all-position mounting.*

Hoffman ebmpapst Dayton

2RTK9

Standard Round Compact Axial Fans

- All-position mounting, except where indicated in table
- Ball bearings

These compact axial fans have a round-shaped housing that fits a circular cutout for cooling equipment within an enclosure. They are for use in dry locations, require minimal space for installation, and are typically used to replace round fans in existing installations. Fans come with mounting holes along the rim of their housing for securing them in place.

H	D	Dia.	CFM @ 0.000" SP	IP Rating	Housing Material	Mounting Eye O.C.	Sound Level	Brand	Mfr. Model	Item No.
Round, 115/230V AC, Lead Wires										
—	2 in	6 ¾ in	206	IP55	Cast Aluminum	6 ⅜ in	50	ebm-papst	AC6200NMU-006	**5AFY9**
Round, 115V AC, Lead Wires										
—	2 9⁄32 in	6 ¾ in	218	IP55	Fiberglass Reinforced Polypropylene	6 ⅜ in	56	ebm-papst	W1G130-AA49-01	**40N386**
—	3 ⅛ in	9 ⅞ in	442	IP55	Fiberglass Reinforced Polypropylene	9 5⁄16 in	55	ebm-papst	W1G200-EC95-47	**5AGC4**
—	3 ⅛ in	9 ⅞ in	271	IP55	Fiberglass Reinforced Polypropylene	9 5⁄16 in	42	ebm-papst	W1G200-EC91-27	**5AGC2**
Round, 230V AC, Lead Wires										
—	2 9⁄32 in	6 ¾ in	218	IP55	Fiberglass Reinforced Polypropylene	6 ⅜ in	56	ebm-papst	W1G130-AA25-01	**40N387**
—	3 ⅛ in	9 ⅞ in	442	IP55	Fiberglass Reinforced Polypropylene	9 5⁄16 in	55	ebm-papst	W1G200-EC91-45	**5AGC5**
Square, 115/230V AC, Lead Wires										
3 ⅝ in	1 ½ in	—	86	IP65	Fiberglass Reinforced Plastic	3 ¼ in	55	ebm-papst	AC3200JHU	**5AFY7**
Square, 115V AC, Terminals										
4 19⁄32 in	2 3⁄10 in	—	15	IP54	PBT Plastic	3 ⅝ in		Rittal	3237110	**6YDK7**
5 51⁄64 in	2 9⁄10 in	—	39	IP54	PBT Plastic	4 ⅞ in		Rittal	3238110	**6YDK8**
8 in	4 ½ in	—	71	IP54	PBT Plastic	7 in		Rittal	3239110	**6YDK9**
10 3⁄32 in	5 ⅕ in	—	156	IP54	PBT Plastic	8 13⁄16 in		Rittal	3241110	**6YDL1**
12 51⁄64 in	5 7⁄10 in	—	424	IP54	PBT Plastic	11 ½ in		Rittal	3244110	**6YDL3**
12 51⁄64 in	5 7⁄10 in	—	353	IP54	PBT Plastic	11 ½ in		Rittal	3243110	**6YDL2**
Square, 12V DC, Lead Wires										
4 11⁄16 in	1 17⁄64 in	—	100	IP68	PBT Plastic	4 ⅛ in	45	ebm-papst	4312/2U	**32MY89**
Square, 230V AC, Terminals										
5 51⁄64 in	2 9⁄10 in	—	39	IP54	PBT Plastic	4 ⅞ in		Rittal	3238100	**6YDL5**
8 in	4 ½ in	—	71	IP54	PBT Plastic	7 in		Rittal	3239100	**6YDL6**
10 3⁄32 in	5 ⅕ in	—	156	IP54	PBT Plastic	8 13⁄16 in		Rittal	3241100	**6YDL8**
12 51⁄64 in	5 7⁄10 in	—	353	IP54	PBT Plastic	11 ½ in		Rittal	3243100	**6YDL9**
12 51⁄64 in	5 7⁄10 in	—	424	IP54	PBT Plastic	11 ½ in		Rittal	3244100	**6YDN0**
Square, 24V DC, Lead Wires										
4 11⁄16 in	1 in	—	108	IP55	PBT Plastic	4 ⅛ in	44.5	Dayton	31CC85	**31CC85**
5 in	1 ½ in	—	159	IP68	PBT Plastic	4 15⁄32 in	56	ebm-papst	DV5214 NU	**32MY91**
Square, 24V DC, Terminals										
4 11⁄16 in	1 ½ in	—	134	IP68	Cast Aluminum	4 ⅛ in	56	ebm-papst	4184NXHU	**32MY86**
5 51⁄64 in	2 9⁄10 in	—	39	IP54	PBT Plastic	4 ⅞ in		Rittal	3238124	**6YDN2**
8 in	4 ½ in	—	71	IP54	PBT Plastic	7 in		Rittal	3239124	**6YDN3**

ebmpapst RITTAL Dayton

5AFY9

Wet-Location Compact Axial Fans

- Ball bearings

These fans are used for cooling equipment in enclosures that are exposed to wet conditions. They have an IP (Ingress Protection) rated motor to withstand water sprays and help keep out dust. Fans require minimal space for installation and have a square housing that can mount over a round cutout or fit into a square cutout. Models are typically installed where there's full access for mounting them against the interior of an enclosure and have mounting holes at each corner for securing them to a wall or panel.

Compact Axial Fan Guards and Filters

Dayton ebmpapst RITTAL

These fan attachments are sized to fit compact axial fans and are used to block out debris to reduce the risk of damage to fans and enclosure components.

Axial Fan Guards—These grilles or grates provide a protective barrier for the blades. They deflect debris and keep objects from being inserted into the blades.

Axial Fan Guards With Filters—They combine a protective barrier for fan blades and a filtering media for cleaning air as it's pulled into a fan. They prevent dust and debris from building up on the fan blades and entering the enclosure.

Square EMF Compact Axial Fan Guard—Mounts to a fan housing to protect the fan blades, filter out contaminants, and shield against electromagnetic and radio frequency interference. Provides EMI-RFI shielding and is often used on enclosures that contain sensitive electronic components.

Axial Fan Replacement Filters—These sheets of filtering media remove debris and contaminants from the air as it's pulled into a fan. They prevent dust and debris from building up on the fan blades and entering the enclosure.

Radiator Connection	D	Mounting Eye O.C.	Frame Material*	Brand	Mfr. Model	Item No.
Round Axial Fan Guards						
6 ¾ in	¼ in	(2) 6⅜ in	Steel	Dayton	4YD91	**4YD91**
	⅜ in	(2) 6⅜ in	Plastic	Dayton	3RP15	**3RP15**
9 ⅛ in	11⁄32 in	(4) 97⁄16 in	Wire	ebm-papst	35138-2-4039	**6KYA6**
Round Axial Fan Guards With Filters						
6 ¾ in	⅜ in	(2) 6⅜ in	Plastic	Dayton	3RP16	**3RP16**
Square Axial Fan Guards						
2 ⅜ in	3⁄16 in	(4) 115⁄16 in	304 SS	Dayton	31CC73	**31CC73**
3 ⅛ in	13⁄64 in	(4) 213⁄16 in	Steel	Dayton	4YD96	**4YD96**
	¼ in	(4) 213⁄16 in	Plastic	Dayton	31CC60	**31CC60**
3 ⅝ in	11⁄64 in	(4) 3¼ in	Steel	Dayton	2RTA5	**2RTA5**
	¼ in	(4) 3¼ in	304 SS	Dayton	31CC75	**31CC75**
4 11⁄16 in	7⁄32 in	(4) 4⅛ in	Steel	Dayton	4YD87	**4YD87**
	¼ in	(4) 4⅛ in	304 SS	Dayton	31CC76	**31CC76**
	5⁄16 in	(4) 4⅛ in	Plastic	Dayton	31CC64	**31CC64**
6 ¾ in	⅜ in	(2) 6⅜ in	304 SS	Dayton	31CC77	**31CC77**
7 ⅞ in	11⁄32 in	(4) 97⁄16 in	Wire	ebm-papst	78128-2-4039	**6KXZ9**
9 13⁄16 in	11⁄32 in	(4) 1139⁄64 in	Wire	ebm-papst	9418-2-4039	**6KYA0**
10 in	¼ in	(4) 6⅞ in	304 SS	Dayton	31CC78	**31CC78**
	¼ in	(4) 6⅞ in	Steel	Dayton	4YD82	**4YD82**

Radiator Connection	D	Mounting Eye O.C.	Frame Material*	Brand	Mfr. Model	Item No.
Square Axial Fan Guards With Filters						
2 ⅜ in	¼ in	(4) 131⁄32 in	Plastic	Dayton	31CC58	**31CC58**
3 ⅛ in	⅜ in	(4) 213⁄16 in	Plastic	Dayton	31CC63	**31CC63**
4 11⁄16 in	13⁄32 in	(4) 4⅛ in	Plastic	Dayton	31CC66	**31CC66**
Square EMF Compact Axial Fan Guard						
4 11⁄16 in	11⁄64 in	(4) 4⅛ in	Aluminum	Dayton	4YD78	**4YD78**

H	D	Media Material	PPI Rating	Brand	Mfr. Model	Item No.
Round Axial Fan Replacement Filters						
5 27⁄32 in	⅛ in	Polyurethane Foam	45	Dayton	4YD90	**4YD90**
Square Axial Fan Replacement Filters						
3 1⁄16 in	⅛ in	Polyurethane Foam	30	Dayton	31CC59	**31CC59**
3 ⅝ in	⅛ in		30	Dayton	31CC71	**31CC71**
4 9⁄16 in	⅛ in		30	Dayton	31CC62	**31CC62**
4 9⁄16 in	⅛ in		45	Dayton	31CC65	**31CC65**
6 13⁄16 in	11⁄16 in	Chopped Polyester	—	Rittal	3171100	**2PVF3**
10 3⁄32 in	11⁄16 in		—	Rittal	3172100	**2PVF8**
12 51⁄64 in	11⁄16 in		—	Rittal	3173100	**2PVG3**

** 304 SS = 304 Stainless Steel.*

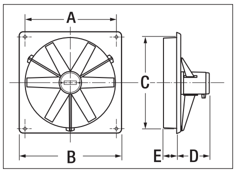
4YD87

4YD78

Corrosion-Resistant Direct-Drive Panel Exhaust Fans

Multifan

21A077



- Totally enclosed motors
- Sealed ball bearings
- Speed controllable (except 21A080); 1-phase fans accept Controller 1DGZ5, sold separately on Grainger.com
- Horizontal or vertical mount
- Polypropylene propellers
- Corrosion-resistant fiberglass venturi frames
- OSHA-compliant intake guards

Have fewer moving parts and typically require less maintenance than belt-drive panel exhaust fans. Engineered for continuous operation in highly corrosive environments, outdoors, and in wet applications. Noncombustible motor cap and sound-absorbing, antivibration cast-aluminum supports.

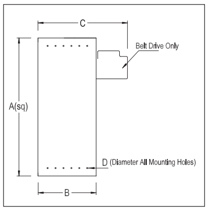
Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.050" SP*	CFM @ 0.125" SP*	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	Sq. Opening Req. (in.)	120V AC, 1-Phase Full Load Amps	120V AC, 1-Phase Item No.	265/460V AC, 3-Phase Full Load Amps	265/460V AC, 3-Phase Item No.	240V AC, 1-Phase Full Load Amps	240V AC, 1-Phase Item No.	230/460V AC, 3-Phase Full Load Amps	230/460V AC, 3-Phase Item No.
Medium-Performance																	
10"	880	840	800	13 3/16"	14 13/16"	10 7/16"	7 13/16"	2 13/16"	10 ½"	.9	**21A081**	—	—	—	—	—	—
12"	1,375	1,330	1,270	15 9/16"	17 7/16"	13 3/8"	7 9/16"	3 5/16"	13 ½"	1.0	**21A087**	—	—	.5	**21A092**	—	—
14"	2,160	2,100	2,025	17 ½"	19 7/16"	15 3/8"	7 9/16"	3 5/16"	15 ½"	1.7	**21A088**	—	—	.9	**21A093**	—	—
16"	2,930	2,830	2,710	19 ½"	21 3/8"	17 5/16"	7 9/16"	3 5/16"	17 7/16"	2.2	**21A089**	—	—	1.1	**21A094**	1.0/.6	**21A101**
18"	3,750	3,625	3,500	21 7/16"	23 3/8"	19 5/16"	7 9/16"	3 5/16"	19 7/16"	3.3	**21A090**	—	—	1.4	**21A095**	1.2/.7	**21A102**
20"	4,900	4,740	4,590	23 5/8"	25 ½"	21 ¼"	7 9/16"	3 5/16"	21 3/8"	3.3	**21A091**	1.9/1.1	**21A103**	1.8	**21A096**	—	—
24"	7,250	7,040	6,265	28 1/8"	30 ½"	26 3/8"	9 ¾"	4 1/8"	26 ½"	5.9	**21A084**	—	—	2.8	**21A085**	—	—
24"	7,650	7,400	7,100	28 1/8"	30 ½"	26 3/8"	9 ¾"	4 1/8"	26 ½"	—	—	—	—	—	—	2.4/1.4	**21A104**
High-Performance																	
10"	1,250	1,190	1,170	13 3/16"	14 13/16"	10 7/16"	7 13/16"	2 13/16"	10 ½"	—	—	—	—	1.0	**21A077**	—	—
12"	2,200	2,050	1,950	15 9/16"	17 7/16"	13 3/8"	7 9/16"	3 5/16"	13 ½"	—	—	—	—	1.5	**21A078**	—	—
24"	10,700	10,240	10,050	28 1/8"	30 ½"	26 3/8"	9 ¾"	4 1/8"	25 ½"	—	—	—	—	7.4	**21A080**	6.1/3.5	**31EG81**
28"	13,400	13,100	12,950	31 1/8"	33 7/16"	29 3/16"	9 ¾"	4 1/8"	29 ½"	—	—	7.8	**21A106**	—	—	—	—

** Performance shown is for installation Type A; free inlet, free outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).*

Box Exhaust Fans

Dayton

44YU10



- Totally enclosed motors with sealed ball bearings
- Heavy-gauge galvanized frame withstands corrosive farm duty applications

Have galvanized steel venturi panels and blades, and 1" x 2" galvanized mesh intake and discharge guards. For humid, corrosive, nonexplosive, and nonhazardous environments such as livestock and poultry houses. Fans are typically installed in framed wall openings and do not connect to ductwork.

Note: OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel.

DIRECT-DRIVE

Shipped fully assembled.

BELT-DRIVE

7DZ45 and 7DZ46 include motor, pulley, belt and motor plate; assembly required. 44YU10 and 44YU20 shipped without motor, but include drive sheaves, belt and motor plate; assembly required. Recommended motors: for 44YU10 use 4WNZ5; for 44YU20 use 3RCW9; both sold separately on Grainger.com. Optional belt tensioner 45KF12 sold separately on Grainger.com.

Prop. Dia. (in.)	No. of Blades	CFM @ Static Pressure Shown 0.000"	CFM @ 0.050"	CFM @ 0.100"	CFM @ 0.150"	CFM/Watt @ Static Pressure Shown 0.000"	CFM/Watt @ 0.050"	CFM/Watt @ 0.100"	CFM/Watt @ 0.150"	Voltage	Phase	Full Load Amps	HP	Motor RPM	Fan RPM	Opening Req. A (in.)	Opening Req. B (in.)	Opening Req. H (in.)	Opening Req. W (in.)	Item No.
With Motors																				
Direct-Drive																				
24"	3	5618	5192	4845	4505	11.3	10.2	9.3	8.4	115/230	1	5.6/2.8	½	1100	1,143	29 ¼"	14 ½"	30"	30"	**44YU13**
36"	3	11,077	10,217	9381	8557	21.1	18.6	16.4	14.5	115/230	1	5.2/2.6	½	825	850	40 1/8"	14"	40 ¾"	40 ¾"	**44YU07**
48"	2	18,926	17,481	15,973	14,256	19.9	17.8	15.8	13.7	115/230	1	11.0/5.5	1	850	857	52 1/8"	17"	52 7/8"	52 7/8"	**44YU08**
48"	2	19,001	17,507	16,097	14,625	21.6	19	16.9	14.9	230/460	3	4.6/2.3	1	850	863	52 1/8"	17"	52 7/8"	52 7/8"	**44YU15**
Belt-Drive																				
36	4	11598	10757	10052	9277	19.3	17	15.3	13.7	115/230	1	7.2/3.6	¾	1725	719	40 1/8	14	41	41	**7DZ46**
48	3	19,608	18,228	16,773	15,347	21.6	19.5	17.3	15.4	115/230	1	9.0/4.5	1	1725	608	52 1/8	17	52 7/8	52 7/8	**7DZ45**
Without Motors																				
Belt-Drive																				
36"	4	11,598	10,757	10,052	9277	19.3	17	15.3	13.7		—	—	¾	1725	719	40 1/8"	14"	41"	41"	**44YU10** *
48"	3	19,608	18,228	16,773	15,347	21.6	19.5	17.3	15.4	—	—	—	1	1725	608	52 1/8"	17"	52 7/8"	52 7/8"	**44YU20** **

** CFM ratings are based on units tested with ¾ HP motor and fan speed of 719 rpm. ** CFM ratings are based on units tested with 1 HP motor and fan speed of 608 rpm.*

Slant-Wall, Cone and Cylinder Exhaust Fans

Schaefer
Dayton
Canarm HVAC

- Motor: totally enclosed air over, except 45PE31 is totally enclosed fan cooled

These fans pull stale air, heat, odors, and some moisture out of indoor spaces to help improve indoor air quality. Shutters on the intake side minimize turbulence as air moves through the fan, while the shutters close when the fans turn off to block out drafts. Discharge guards help prevent objects from entering the fan on the discharge side. Suitable for ventilating industrial and agricultural facilities.

Note: OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel.

44YU09

29NV36

5AFD6

Blade Dia.	For Cutout HxW	Nameplate Voltage	Phase	Motor Horsepower	Motor Speed	Max. Exhaust Airflow @ 0.000 in SP	Brand	Mfr. Model	Item No.
Belt-Drive Cone Exhaust Fans, Steel Blades & Fiberglass Frame									
57 in	62 ½ in x 62 ½ in	208-230/460V AC	3	2 hp	1,745 RPM	35,200 cfm	Schaefer	573CF2G-3-HV	**22UX88**
Belt-Drive Slant-Wall Exhaust Fans, Steel Blades & Steel Frame									
36 in	43 in x 40 7/8 in	115/230V AC	1	¾ hp	1,725 RPM	11,420 cfm	Dayton	44YU09	**44YU09**
48 in	55 ½ in x 52 7/8 in	115/230V AC	1	1 hp	1,725 RPM	21,100 cfm	Dayton	44YU14	**44YU14**
Direct-Drive Cylinder Exhaust Fans, Polyethylene Blades & Polyethylene Frame									
12 in	16 ¾ in x 15 ¾ in	115/230V AC	1	⅓ hp	1,725 RPM	1,610 cfm	Schaefer	PFM126P13	**5AFD1**
16 in	20 ½ in x 19 ½ in	115/230V AC	1	⅓ hp	1,725 RPM	3,217 cfm	Schaefer	PFM163P13	**5AFD2**
20 in	24 ¾ in x 23 ½ in	115/230V AC	1	½ hp	1,725 RPM	5,143 cfm	Schaefer	PFM204P12	**5AFD4**
24 in	29 ½ in x 29 in	115/230V AC	1	½ hp	1,725 RPM	5,585 cfm	Schaefer	PFM244P12A	**5AFD6**
Direct-Drive Cylinder Exhaust Fans, Steel Blades & Fiberglass Frame									
36 in	43 ¾ in x 43 ½ in	115/230V AC	1	½ hp	1,725 RPM	10,250 cfm	Schaefer	FFM365G12	**5AFE1**
48 in	56 ¼ in x 55 ¾ in	115/230V AC	1	1 hp	1,725 RPM	19,917 cfm	Schaefer	FFM483G1	**5AFE6**
52 in	59 ¼ in x 59 ¼ in	230V AC	1	1 hp	1,725 RPM	25,395 cfm	Schaefer	FFM525G1-2	**5AFF5**
Direct-Drive Slant-Wall Exhaust Fans, Steel Blades & Steel Frame									
48 in	55 ½ in x 52 7/8 in	115/230V AC	1	1 hp	850 RPM	19,100 cfm	Dayton	44YU12	**44YU12**
36 in	43 in x 40 7/8 in	115/230V AC	1	½ hp	825 RPM	10,770 cfm	Dayton	44YU17	**44YU17**
Hazardous Location Direct-Drive Cylinder Exhaust Fans, Class I, Div 1, Group C and D; Class II, Div 1, Group F and G, Aluminum Blades & Polyethylene Frame									
16 in	20 ½ in x 19 ½ in	115/230V AC	1	⅓ hp	1,725 RPM	3,220 cfm	Schaefer	PFM1600-1-HL	**45PE31**
Hazardous Location Shutter-Mount Exhaust Fans, Class I, Div 1, Group C and D; Class II, Div 1, Group F and G, Aluminum Blades & Aluminum Frame									
12 in		115/208-230V AC	1	⅓ hp	1,725 RPM	1,670 cfm	Canarm	AX12-4	**29NV36**

Standard, Quick-Install, and High Efficiency Shutter-Mount Exhaust Fans

Dayton · Canarm HVAC · airmaster Fans

- Motors: 60 Hz; thermally protected, except 33TH66, 788N39, 788N60, and 788N63
- Max. ambient temp.: 104°F, except 788N60 is 158°F
- OSHA-compliant wire guards

These fans have built-in shutters that close when the fans turn off to block out drafts and help maintain the efficiency of the building's HVAC equipment. Shutters open when the fans turn on to pull stale air, heat, odors, and some moisture out of barns, garages, and other enclosed indoor work areas. Fans mount to an exterior wall and are suitable for buildings where fans cannot be mounted to the ceiling. Fully assembled with shutters and prepunched mounting holes; simply frame an opening and mount.

484X36 Standard Shutter-Mount

32PF37 Quick-Install Plug-In Shutter-Mount

788N60 High Efficiency Shutter-Mount

Blade Dia.	No. of Speeds	Nameplate Voltage	Phase	Motor Encl.	Motor Horsepower	Max. Exhaust Airflow @ 0.000 in SP	Noise Level @ 0.000 in SP @ 5 ft	For Cut-Out Height	For Cut-Out Width	For Maximum Wall Thickness	For Minimum Wall Thickness	No. of Blades	Brand	Mfr. Model	Item No.
Standard Shutter-Mount Exhaust Fans, Steel Blade & Steel Frame															
30 in	1	115V AC	1	Totally Enclosed Air Over	⅓ hp	5,090 cfm	7.01 sones	31 in	31 in	6 in	3 in	3	Dayton	484X49	**484X49**
36 in	1	115V AC	1	Totally Enclosed Air Over	½ hp	8,860 cfm	8.24 sones	37 in	37 in	6 in	3 in	3	Dayton	484X50	**484X50**
Standard Shutter-Mount Exhaust Fans, Steel Blade & Aluminum Frame															
36 in	1	208-230/460V AC	3	Totally Enclosed Air Over	½ hp	10,000 cfm	21 sones	—	—	—	—	3	Canarm	AX36-7M	**788N39**
Standard Shutter-Mount Exhaust Fans, Aluminum Blade & Steel Frame															
7 in	Variable	115V AC	1	Totally Enclosed Air Over	1/25 hp	254 cfm	5.37 sones	8 ½ in	8 ½ in	6 in	3 in	5	Dayton	484X36	**484X36**
10 in	Variable	115V AC	1	Totally Enclosed Air Over	1/25 hp	625 cfm	6.19 sones	10 ½ in	10 ½ in	6 in	3 in	5	Dayton	484X37	**484X37**
12 in	Variable	115V AC	1	Totally Enclosed Air Over	⅔ hp	844 cfm	5.9 sones	13 in	13 in	6 in	3 in	3	Dayton	484X38	**484X38**
16 in	Variable	115V AC	1	Totally Enclosed Air Over	⅒ hp	1,095 cfm	6.39 sones	17 in	17 in	6 in	3 in	3	Dayton	484X39	**484X39**
	1	115V AC	1	Totally Enclosed Air Over	¼ hp	3,128 cfm	7.28 sones	19 in	19 in	6 in	3 in	3	Dayton	484X41	**484X41**
18 in	Variable	115V AC	1	Totally Enclosed Air Over	⅛ hp	1,785 cfm	7.4 sones	19 in	19 in	6 in	3 in	3	Dayton	484X40	**484X40**
	Variable	115V AC	1	Totally Enclosed Air Over	¼ hp	3,151 cfm	11.3 sones	21 in	21 in	6 in	3 in	3	Dayton	484X43	**484X43**
20 in	1	115V AC	1	Totally Enclosed Air Over	⅓ hp	4,034 cfm	8.1 sones	21 in	21 in	6 in	3 in	3	Dayton	484X44	**484X44**
20 in	1	115V AC	1	Totally Enclosed Air Over	¼ hp	3,950 cfm	7.01 sones	21 in	21 in	6 in	3 in	3	Dayton	484X42	**484X42**
24 in	1	115V AC	1	Totally Enclosed Air Over	⅓ hp	4,479 cfm	7.42 sones	25 in	25 in	6 in	3 in	3	Dayton	484X47	**484X47**
24 in	Variable	115V AC	1	Totally Enclosed Air Over	¼ hp	4,163 cfm	7 sones	25 in	25 in	6 in	3 in	3	Dayton	484X46	**484X46**
24 in	2	115V AC	1	Totally Enclosed Air Over	⅓ hp	4,610 cfm	7.42 sones	25 in	25 in	6 in	3 in	3	Dayton	484X48	**484X48**
Standard Shutter-Mount Exhaust Fans, Aluminum Blade & Aluminum Frame															
12 in	Variable	115V AC	1	Totally Enclosed Air Over	1/15 hp	1,350 cfm	9.2 sones	14 in	14 in	5 in	5 in	3	Canarm	AX12-1VHE	**23N620**
16 in	1	115V AC	1	Open Dripproof	1/30 hp	1,216 cfm	8 sones	16 ½ in	16 ½ in	5 ½ in	3 in	3	Airmaster Fan	LPSF16	**46Z428**
18 in	1	115V AC	1	Open Dripproof	1/30 hp	1,877 cfm	8.4 sones	19 in	19 in	5 ½ in	3 in	3	Airmaster Fan	LPSF18	**46Z429**
10 in	1	115V AC	1	Open Dripproof	1/30 hp	611 cfm	6.6 sones	11 in	11 in	5 ½ in	3 in	5	Airmaster Fan	LPSF10	**46Z426**
10 in	2	115V AC	1	Totally Enclosed Air Over	1/40 hp	690 cfm	—	12 in	12 in	—	—	5	Canarm	AX10-3	**23N619**
12 in	1	115V AC	1	Open Dripproof	1/30 hp	815 cfm	7.6 sones	12 ½ in	12 ½ in	5 ½ in	3 in	3	Airmaster Fan	LPSF12	**46Z427**
42 in	1	230V AC	1	Totally Enclosed Air Over	1 hp	14,900 cfm	49 sones	45 in	45 in	5 in	5 in	3	Canarm	AX42-7	**33TH66**
Quick-Install Plug-In Shutter-Mount Exhaust Fans, Steel Blade & Steel Frame															
12 in	3	115V AC	1	Totally Enclosed Air Over	1/12 hp	1,100 cfm	8 sones	14 in	14 in	5 in	5 in	5	Canarm	XFS12	**32PF37**
16 in	3	115V AC	1	Totally Enclosed Air Over	⅛ hp	2,300 cfm	8 sones	18 in	18 in	5 in	5 in	5	Canarm	XFS16	**32PF38**
20 in	2	115V AC	1	Totally Enclosed Air Over	¼ hp	3,300 cfm	17 sones	22 in	22 in	5 in	5 in	5	Canarm	XFS20	**32PF39**
24 in	2	115V AC	1	Totally Enclosed Air Over	½ hp	4,700 cfm	21 sones	26 in	26 in	5 in	5 in	5	Canarm	XFS24	**32PF40**
High-Efficiency Shutter-Mount Exhaust Fans, Steel Blade & Steel Frame															
18 in	Variable	115/208-280V AC	1	Totally Enclosed Air Over	½ hp	3,200 cfm	23 sones	—	—	—	—	3	Canarm	SD18-EC	**788N63**
12 in	Variable	115/208-280V AC	1	Totally Enclosed Air Over	¼ hp	1,650 cfm	10 sones	—	—	—	—	3	Canarm	SD12-EC	**788N60**

Corrosion-Resistant Shutter-Mount Exhaust Fans

Dayton

- Mount: vertical only
- Motors: totally enclosed, 115V, 60 Hz, thermally protected
- Max. ambient temp.: 104°F
- Fiberglass-reinforced polypropylene blades
- OSHA-compliant epoxy-coated wire guards

Feature blades and housing that will not rust or corrode when exposed to water and moisture, making fans suitable for use in humid and wet environments. Fans have built-in shutters that close when the fans turn off to block out drafts and help maintain the efficiency of the building's HVAC equipment. Shutters open when the fans turn on to pull stale air, heat, odors, and some moisture out of barns, garages, and other enclosed indoor work areas. Fans are direct-drive with few moving parts and typically require minimal maintenance compared to belt-drive models.

Note: Not designed for laboratory hood exhaust or explosive atmospheres.

1BLH8

Blade Dia.	No. of Speeds	Phase	Motor Horsepower	Max. Exhaust Airflow @ 0.000 in SP	Noise Level @ 0.000 in SP @ 5 ft	Overall Height	Overall Width	Overall Depth	No. of Blades	Item No.
Fiberglass Blade & Fiberglass Frame										
10 in	1	1	1/20 hp	652 cfm	6.6 sones	13 in	13 in	12 15⁄16 in	4	**1BLH6**
12 in	1	1	⅛ hp	900 cfm	6.8 sones	15 in	15 in	15 3⁄16 in	4	**1BLH8**
16 in	1	1	1/6 hp	2,052 cfm	7.1 sones	18 15⁄16 in	18 15⁄16 in	15 3⁄16 in	4	**1BLJ1**
18 in	1	1	¼ hp	2,616 cfm	7.2 sones	21 in	21 in	17 in	8	**1BLJ3**
20 in	1	1	⅓ hp	3,800 cfm	7.2 sones	22 ⅞ in	22 ⅞ in	17 ¼ in	8	**1BLJ5**
24 in	1	1	½ hp	5,448 cfm	7.2 sones	27 1⁄16 in	27 1⁄16 in	18 ⅜ in	8	**1BLJ7**

Hazardous Location Shutter-Mount Exhaust Fans

Canarm HVAC

- Mount: vertical only
- Max. ambient temp.: 104°F
- Motor HP: ⅓
- Single phase
- Single speed
- 3 Aluminum Blades
- OSHA-compliant wire guards

Have an explosion-proof motor and are rated for use in areas where combustible dust or certain flammable gases or vapors are present. Fans have built-in shutters that close when the fans turn off to block out drafts and help maintain the efficiency of the building's HVAC equipment. Shutters open when the fans turn on to pull stale air, heat, odors, and some moisture out of barns, garages, and other enclosed indoor work areas. They are direct drive with few moving parts and typically require minimal maintenance compared to belt-drive models.

Blade Dia.	Frame Material	Nameplate Voltage	Motor Encl.	Max. Exhaust Airflow @ 0.000 in SP	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Class I, Div 1, Group C and D; Class II, Div 1, Group F and G									
12 in	Aluminum	115/208-230V AC	Totally Enclosed Air Over	1,670 cfm	16 ¾ in	16 ¾ in	18 ¾ in	AX12-4	**29NV36**
20 in	Aluminum	115V AC		3,640 cfm	24 ¾ in	24 ¾ in	19 in	AX20-4	**29NV40**
Class I, Group C and D; Class II, Group F and G									
8 in	Steel	240V AC	Totally Enclosed Fan Cooled	320 cfm	13 ¼ in	13 ¼ in	17 ½ in	SD08-XPF	**31EE17**
10 in	Steel	240V AC		620 cfm	15 ¼ in	15 ¼ in	17 ½ in	SD10-XPF	**31EE18**
12 in	Steel	115V AC		1,640 cfm	17 ¼ in	17 ¼ in	20 ½ in	SD12-XPF	**23N613**
18 in	Steel	115V AC		3,200 cfm	23 ¼ in	23 ¼ in	20 ½ in	SD18-XPF	**23N614**
24 in	Steel	115V AC		5,500 cfm	29 ¼ in	29 ¼ in	20 ½ in	SD24-XPF	**23N615**

23N613

Fan Controls

Dayton

48C172 and 48C173—Can operate multiple direct-drive fans, if total amp draw does not exceed control's amp rating. Fit single gang box; mounting screws included.

1DGZ9—Mounts on standard 4" x 2" single gang box. SPDT (center off).

Description	Voltage	Max. Amps	For Use With	Item No.
Rotary, Adjustable	115V	6 A	Dayton® & Other Compatible Speed Controllable Ventilators & Fans	**48C172**
		10 A		**48C173**
Toggle, 2 Speed Switch	120	15	1HLB1 Shutter-Mounted Exhaust Fan & Other 2-Speed Applications	**1DGZ9**

48C172

Dayton

Standard Direct-Drive Panel Exhaust Fans

- Mount: vertical With Intake Guards; vertical or horizontal Without Intake Guards
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings, except sleeve bearings on 10D954 to 10D956
- Max. ambient temp.: 104°F
- Aluminum blades

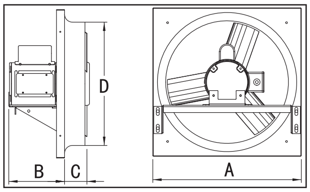
Fans have a motor that's directly mounted on the fan shaft, which reduces friction and improves efficiency compared to belt-drive models. They pull stale air, heat, odors, and some moisture out of indoor spaces to reduce airborne contaminants, improve indoor air quality, and allow occupants to breathe comfortably. Galvanized frame and finish.

Note: OSHA-complying guards (included with select models) are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

On Grainger.com, search by Grainger Item Number and look for Optional Accessories or Related Products. Automatic shutters recommended.

10D963

10D989



Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	CFM @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Fan Voltage	Phase	Exhaust/ Supply Fan Motor HP	Motor RPM	Full Load Amps	Sones @ 0.000" SP @ 5 ft.#	No. of Blades	Item No.
With Intake Guards																
10 in	14	5	2 ⅝	10 ¼	752	641	431	297	115V AC	1	1/30 hp	1,650	0.6	9.4	5	**10D953**
12 in	16	5 ½	2 ⅞	12 ¼	912	753	541	—	115V AC	1	1/30 hp	1,650	0.6	6	3	**10D954**
	16	7	2 ½	12 ¼	1,450	1,346	1,219	1,049	115/230V AC	1	¼ hp	1,772	2.8/1.5	11.7	5	**10D963**
14 in	18	5	2 ⅝	14 ¼	1,152	958	652	461	115V AC	1	1/20 hp	1,650	1	9.4	3	**10D955**
16 in	20	5	2 ⅛	16 ⅜	1,334	1,045	704	490	115V AC	1	1/20 hp	1,650	1	10.2	3	**10D956**
	20	7	2 ¾	16 ⅜	2,883	2,650	2,417	2,120	115/230V AC	1	¼ hp	1,750	2.8/1.5	16.8	3	**10D964**
18 in	22	7	3 ¾	18 ½	2,652	2,316	1,837	1,029	115V AC	1	¼ hp	1,155	2.8	15.5	3	**10D957**
	22	7	3	18 ½	3,085	2,880	2,610	2,306	115/230V AC	1	⅓ hp	1,750	3.3/1.7	17.5	3	**10D960**
	22	7	2 ½	18 ½	3,201	2,947	2,650	2,311	115/230V AC	1	¼ hp	1,739	2.8/1.5	18.8	3	**10D965**
20 in	24	7	3 ⅜	20 ⅝	3,647	3,280	2,629	1,781	115V AC	1	¼ hp	1,150	2.8	15.3	3	**10D958**
	24	7	2 ¼	20 ⅝	3,456	3,074	2,693	2,205	115/230V AC	1	¼ hp	1,740	2.8/1.5	17.4	3	**10D966**
	24	7	2 ¼	20 ⅝	4,134	3,710	3,329	2,883	115/230V AC	1	⅓ hp	1,710	3.3/1.7	20	3	**10D967**
	24	7 ½	2	20 ⅝	4,558	4,155	3,753	3,329	115/230V AC	1	¾ hp	1,724	7.0/3.5	22	3	**10D968**
24 in	28	7	3 ¼	24 ¾	4,240	2,502	2,919	2,102	115V AC	1	¼ hp	1,150	2.8	17.2	3	**10D959**
	28	7	3 ¾	24 ½	4,770	4,198	3,498	2,764	115/230V AC	1	⅓ hp	1,150	3.3/1.8	16.6	3	**10D962**
	28	7	3 ¼	24 ½	4,473	3,943	3,392	2,799	115/230V AC	1	⅓ hp	1,750	3.3/1.7	23	3	**10D969**
	28	7 ½	2 ¼	24 ½	6,254	5,767	5,216	4,558	115/230V AC	1	½ hp	1,134	5.4/2.8	21	6	**10D970**
8 in	12	5	2 ⅜	8 ¼	466	329	170	117	115V AC	1	1/30 hp	1,775	0.6	6.8	5	**10D952**
Without Intake Guards																
12 in	16	7	4	12 ¼	1,589	1,419	1,150	765	115/230V AC	1	¼ hp	1,750	2.8/1.5	16.4	4	**10D971**
16 in	20	7	3 ⅛	16 ⅜	2,548	2,329	2,048	1,800	115/230V AC	1	¼ hp	1,620	2.8/1.5	18.4	4	**10D972**
	20	7 ½	2 ⅝	16 ⅜	2,883	2,650	2,375	2,099	115/230V AC	1	¼ hp	1,743	2.8/1.5	19.7	3	**10D983**
	20	7	2 ⅝	16 ⅜	2,926	2,693	2,417	2,184	208-230/460V AC	3	¼ hp	1,747	1.5-1.6/0.9	17.9	3	**10D984**
18 in	22	7	3 ¾	18 ½	3,498	3,350	3,138	2,841	115/230V AC	1	⅓ hp	1,750	3.3/1.7	20	3	**10D973**
	22	7	2 ⅛	18 ½	3,604	3,307	2,989	2,587	115/230V AC	1	⅓ hp	1,706	3.3/1.7	22	3	**10D985**
	22	7	3 ⅜	18 ½	3,477	3,244	2,968	2,608	208-230/460V AC	3	⅓ hp	1,700	1.5-1.6/0.8	18.7	3	**10D974**
	22	6 ½	2 ⅜	18 ½	3,689	3,413	3,138	2,799	208-230/460V AC	3	⅓ hp	1,725	1.5-1.6/0.8	20	3	**10D986**
20 in	24	7	3 ⅜	20 ⅝	4,240	3,774	3,223	2,438	115/230V AC	1	⅓ hp	1,172	3.3/1.8	19.8	3	**10D975**
	24	7 ½	5 ¾	20 ⅝	4,495	4,134	3,562	2,926	115/230V AC	1	½ hp	1,150	5.4/2.8	18	3	**10D976**
	24	6 ½	2 ¾	20 ⅝	4,855	4,537	4,198	3,710	115/230V AC	1	¾ hp	1,700	7.0/3.5	23	3	**10D987**
	24	7 ½	5	20 ⅝	4,452	4,134	3,731	2,926	208-230/460V AC	3	½ hp	1,125	2.1-2.3/1.2	14.9	3	**10D977**
	24	7	2 ½	20 ⅝	4,601	4,283	3,922	3,477	208-230/460V AC	3	¾ hp	1,753	3.2-3.3/1.6	21	3	**10D988**
24 in	28	8	4 ¼	24 ½	5,216	4,622	3,604	2,968	115/230V AC	1	⅓ hp	1,100	3.3/1.8	18	3	**10D978**
	28	8	4 ⅞	24 ½	5,300	4,791	4,198	3,286	115/230V AC	1	½ hp	1,076	5.4/2.8	19.1	3	**10D979**
	28	8	4 ⅜	24 ½	5,088	4,622	4,028	3,329	208-230/460V AC	1	½ hp	1,125	2.1-2.3/1.2	14.3	3	**10D980**
	28	8	2 ½	24 ½	6,403	5,958	5,491	4,791	115/230V AC	1	½ hp	1,132	5.4/2.8	22	6	**10D989**
	28	8	3 ¼	24 ½	7,654	7,081	6,466	5,724	115/230V AC	1	¾ hp	1,700	7.0/3.5	29	3	**10D990**
	28	8	2	24 ½	7,102	6,657	6,170	5,618	208-230/460V AC	3	¾ hp	1,702	3.2-3.3/1.6	28	3	**10D991**
30 in	34	8 ½	3 ¾	30 ½	9,859	9,223	8,162	6,996	115/230V AC	1	¾ hp	1,150	7.5/3.8	22	3	**10D981**
	34	8 ½	2 ⅜	30 ½	9,095	8,353	7,463	6,466	115/230V AC	1	¾ hp	1,128	7.5/3.8	27	6	**10D992**
	34	8 ½	3 ½	30 ½	9,541	8,799	7,887	6,678	208-230/460V AC	3	¾ hp	1,150	3.6-3.8/1.9	27	3	**10D982**
	34	8 ½	2	30 ½	9,117	8,481	7,675	6,678	208-230/460V AC	3	¾ hp	1,138	3.6-3.8/1.9	26	6	**10D993**
36 in	40	8	2 ⅝	36 ⅝	12,742	11,237	9,435	7,420	208-230/460V AC	3	¾ hp	1,150	3.6-3.8/1.9	29	3	**10D994**

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

Dayton

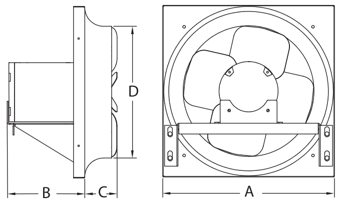
Quiet-Design Direct-Drive Standard Exhaust Fans

- Mount: vertical or horizontal
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings
- 60 Hz
- Max. ambient temp.: 104°F
- Aluminum blades

Galvanized frame and finish. Suitable for use in commercial and industrial applications.

Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

10E049



Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	Nameplate Voltage	Phase	Motor Horsepower	Max. Exhaust Airflow @ 0.000 in SP*	Max. Noise Level @ 0.000 in SP @ 5 ft#	No. of Blades	Item No.
12 in	16	7	3 ¾	12 ¼	115/230V AC	1	¼ hp	1,286 cfm	11.2 sones	3	**10E039**
16 in	20	7	3 ½	16 ⅜	115/230V AC	1	¼ hp	2,544 cfm	18.5 sones	3	**10E040**
	20	7	3 ⅜	16 ⅜	208-230/460V AC	3	¼ hp	2,459 cfm	15.8 sones	3	**10E041**
18 in	22	7	3 ⅛	18 ½	115/230V AC	1	⅓ hp	3,032 cfm	22 sones	4	**10E042**
	22	7	3 ⅛	18 ½	208-230/460V AC	3	⅓ hp	3,072 cfm	22 sones	4	**10E043**
24 in	28	8	6 ⅜	24 ½	115/230V AC	1	½ hp	5,658 cfm	21 sones	3	**10E046**
	28	8	7 ⅝	24 ½	115/230V AC	1	¾ hp	6,208 cfm	18.4 sones	3	**10E047**
	28	8	7 ¾	24 ½	208-230/460V AC	3	¾ hp	6,424 cfm	18.4 sones	3	**10E048**
30 in	34	8 ½	3	30 ½	208-230/460V AC	3	¾ hp	9,371 cfm	24 sones	3	**10E049**

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10F478

10E033

Frames for Wall-Mount Ventilation Fans

Dayton

- Mount: vertical or horizontal

Rigid galvanized steel frames have deep venturi and 1"W flanges. 10F477 to 10F479 include a zinc-plated guard; all others have slotted motor base and mounting bolts to accept 48 or 56 frame motors.

Note: Motors and blades are sold separately. For motors, see Index under Motors, Fan; for fan blades, see Fan Blades; for intake guards, see Guards, Fan.

For Blade Dia.	Dia. Opening Required	Item No.
8 in	10 ½ in	**10F477**
10 in	12 ½ in	**10F478**
12 in	14 ½ in	**10E033**
14 in	16 ½ in	**10F479**
16 in	18 ½ in	**10E034**
18 in	20 ½ in	**10E035**
20 in	22 ½ in	**10E036**
24 in	26 ½ in	**10E037**
30 in	32 ½ in	**10E038**
36 in	38 ½ in	**10F480**

Guard- and Ring-Mount Exhaust Fans

Dayton

- Mount: vertical or horizontal
- Motors: totally enclosed, 60 Hz, thermally protected
- Max. inlet/ambient temp.: 104°F

Designed for low-pressure exhausting and cooling applications. Automatic shutter is recommended for guard-mount fans; go to Grainger.com and search for fan shutters.

484X53

12U120

Blade Dia.	No. of Blades	Nameplate Voltage	Phase	Motor Horsepower	Motor Speed	Max. Exhaust Airflow @ 0.000 in SP	Max. Noise Level @ 0.000 in SP @ 5 ft	No. of Blades	Item No.
Guard-Mount Fans, Aluminum Blade, Steel Guard with Powder Coated Finish									
7 in	5	115V AC	1	1/25 hp	1,550 RPM	288 cfm	6.8 sones	5	**484X51**
10 in	5	115V AC	1	1/25 hp	1,550 RPM	615 cfm	6.4 sones	5	**484X52**
12 in	3	115V AC	1	1/15 hp	1,550 RPM	830 cfm	6.1 sones	3	**484X53**
16 in	3	115V AC	1	⅒ hp	1,550 RPM	1,280 cfm	6.1 sones	3	**484X54**
18 in	3	115V AC	1	¼ hp	1,725 RPM	3,900 cfm	7.4 sones	3	**484X55**
Guard-Mount Fans, Steel Blade, Steel Guard with Polyester Finish									
30 in	3	115V AC	1	⅓ hp	843 RPM	5,472 cfm	7.2 sones	3	**45MX72**
36 in	3	115V AC	1	½ hp	836 RPM	6,404 cfm	8.4 sones	3	**45MX73**
Ring-Mount Fans, Bracket Mounting, Steel Frame*									
6 in	5	115V AC	1	1/65 hp	1,550 RPM	119 cfm	3.6 sones	5	**12U117**
9 in	5	115V AC	1	1/45 hp	1,550 RPM	305 cfm	6.9 sones	5	**12U118**
12 in	5	115V AC	1	1/30 hp	1,550 RPM	665 cfm	6.4 sones	5	**12U119**
Ring-Mount Fans, Flange Mounting, Steel Frame*									
12 in	3	115V AC	1	1/20 hp	1,550 RPM	889 cfm	6.4 sones	3	**12U120**

** OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.*

Hazardous Location Direct-Drive Exhaust Fans

Dayton

- Mount: vertical or horizontal
- Motors: explosionproof, fan-cooled enclosure with Class B insulation
- Hazardous location ball bearings
- Max. ambient temp.: 104°F

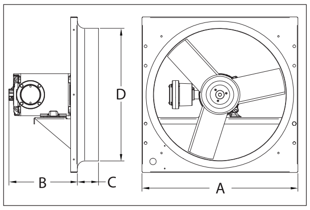
Fans ventilate spaces containing flammable or explosive vapors, gases, or dusts (per NEC 500). For use with NEC Class I, Division I, Groups C and D; NEC Class II, Division I, Groups F and G (10E020 for Groups E, F, and G). Galvanized frame and finish. Spark-resistant aluminum blades. Motorized damper and shutters are not recommended.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Not for use with hazardous location exhaust applications. Review OSHA codes and UL standards.

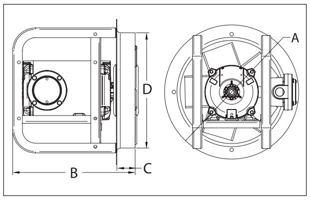
Consult local ventilation contractor or fire inspector for local code requirements. Do not use where motor or blades will accumulate paint residue. Electrically ground all components in hazardous location system.

Blade Dia.	A (in.)	B (in.)	C (in.)	D (in.)	Nameplate Voltage	Phase	Motor Horsepower	Max. Exhaust Airflow @ 0.000 in SP*	Max. Noise Level @ 0.000 in SP @ 5 ft#	No. of Blades	Item No.
Panel Exhaust Fans											
12 in	16	9 ½	3	12 ¼	115/208-230V AC	1	1/6 hp	1,347 cfm	13.4 sones	5	**32ZN53**
	16	9 ½	3	12 ¼	208-230/460V AC	3	¼ hp	1,347 cfm	13.4 sones	5	**10D996**
16 in	20	9 ½	3 ¼	16 ½	115/208-230V AC	1	¼ hp	2,476 cfm	14.1 sones	3	**10D997**
	20	9 ½	3 ¼	16 ½	208-230/460V AC	3	¼ hp	2,476 cfm	14.1 sones	3	**10D998**
18 in	22	9 ½	3 ⅛	18 ½	115/208-230V AC	1	⅓ hp	3,168 cfm	19.1 sones	3	**10D999**
	22	11	3 ⅛	18 ½	208-230/460V AC	3	⅓ hp	3,168 cfm	19.1 sones	3	**10E001**
20 in	24	11 ½	3 ¾	20 ½	115/208-230V AC	1	½ hp	4,557 cfm	23 sones	3	**10E002**
	24	11 ½	3 ¾	20 ½	208-230/460V AC	3	½ hp	4,557 cfm	23 sones	3	**10E003**
24 in	28	11 ½	3 ⅞	24 ½	115/208-230V AC	1	½ hp	5,669 cfm	26 sones	2	**10E004**
	28	11 ½	3 ⅞	24 ½	115/208-230V AC	1	¾ hp	6,317 cfm	28 sones	3	**10E005**
	28	11 ½	3 ⅞	24 ½	208-230/460V AC	3	½ hp	5,669 cfm	26 sones	2	**10E006**
	28	12	3 ⅞	24 ½	208-230/460V AC	3	¾ hp	6,317 cfm	28 sones	3	**10E007**
Ring Exhaust Fans with Prepunched Mounting Holes											
12 in	16 ¼	13 ½	2	12 ½	115/208-230V AC	1	1/6 hp	1,147 cfm	13.6 sones	5	**32ZN54**
	16 ¼	13 ½	2	12 ½	208-230/460V AC	3	¼ hp	1,147 cfm	13.6 sones	5	**10E009**
16 in	20 ¼	13 ½	2	16 ½	115/208-230V AC	1	¼ hp	2,153 cfm	17 sones	3	**10E010**
	20 ¼	13 ½	2	16 ½	208-230/460V AC	3	¼ hp	2,153 cfm	17 sones	3	**10E011**
18 in	22 ¼	13 ½	2	18 ½	115/208-230V AC	1	¼ hp	2,371 cfm	21 sones	3	**10E012**
	22 ¼	13 ½	2	18 ½	208-230/460V AC	3	¼ hp	2,371 cfm	21 sones	3	**10E013**
20 in	24 ¼	13 ½	2	20 ½	115/208-230V AC	1	¼ hp	2,429 cfm	23 sones	3	**10E014**
	24 ¼	13 ½	2	20 ½	208-230/460V AC	3	¼ hp	2,429 cfm	23 sones	3	**10E015**
24 in	28 ¼	13 ½	2	24 ½	115/208-230V AC	1	½ hp	3,837 cfm	26 sones	3	**10E016**
	28 ¼	13 ½	2	24 ½	115/208-230V AC	1	½ hp	5,669 cfm	26 sones	2	**10E017**
	28 ¼	13 ½	2	24 ½	208-230/460V AC	3	⅓ hp	3,837 cfm	30 sones	3	**10E018**
	28 ¼	13 ½	2	24 ½	208-230/460V AC	3	½ hp	5,669 cfm	26 sones	2	**10E019**
30 in	34 ¼	17 ½	2	30 ½	115/208-230V AC	1	¾ hp	8,153 cfm	28 sones	6	**10E020**

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m), in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*



Panel Exhaust Fan



Ring Exhaust Fan

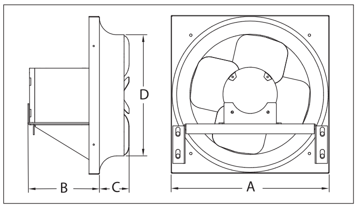
Direct-Drive Reversible Panel Fans

Dayton

- Mount: vertical or horizontal
- Motors: totally enclosed air over, with Class B insulation
- Ball bearings
- 1 speed, 60 Hz
- Max. inlet/ambient temp.: 104°F

Versatile fans have reversing switch to quickly exhaust or supply air in demanding ventilating applications. Feature galvanized frame.

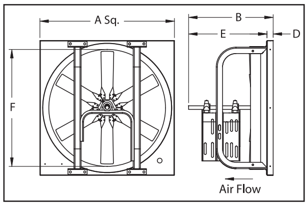
Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.



Blade Dia.	No. of Blades	Nameplate Voltage	Phase	Motor HP	Motor Speed	Max. Exhaust/ Supply Airflow at 0.000 in SP	Item No.
12 in	4	115/230V AC	1	¼ hp	1,755 RPM	1,470 cfm	**10E021**
	4	208-230/460V AC	3	¼ hp	1,750 RPM	1,463 cfm	**10E027**
16 in	3	115/230V AC	1	¼ hp	1,750 RPM	1,811 cfm	**10E022**
	3	115/230V AC	1	⅓ hp	1,750 RPM	2,410 cfm	**10E023**
	3	208-230/460V AC	3	¼ hp	1,750 RPM	1,926 cfm	**10E028**
	4	208-230/460V AC	3	⅓ hp	1,750 RPM	2,512 cfm	**10E029**
18 in	4	115/230V AC	1	⅓ hp	1,750 RPM	2,960 cfm	**10E024**
	4	208-230/460V AC	3	⅓ hp	1,750 RPM	3,138 cfm	**10E030**
20 in	3	115/230V AC	1	⅓ hp	1,750 RPM	3,471 cfm	**10E025**
	3	208-230/460V AC	3	⅓ hp	1,750 RPM	3,477 cfm	**10E031**
24 in	3	115/230V AC	1	½ hp	1,150 RPM	4,516 cfm	**10E026**
	3	208-230/460V AC	3	½ hp	1,150 RPM	4,261 cfm	**10E032**

Blade Dia.	A" (Sq.)	B"	C"	D"	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.
12 in	16	7	4	12 ¼	3FKF4	16D556	16D550	1WBT8
16 in	20	7	2 ¾	16 ⅜	3FKF5	16D558	16D552	1WBT9
16 in	20	7	3	16 ⅜	3FKF5	16D558	16D552	1WBT9
18 in	22	7	3 ¾	18 ½	3FKF6	16D559	16D553	1WBU1
20 in	24	7	3 ⅜	20 ⅝	3FKF7	3FKF2	3FKF3	1WBU2
24 in	28	8	3 ¾	24 ½	3FKF8	1WBV9	1WBV1	1WBU3

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m), in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*



Belt-Drive Supply Fans

Dayton

- Mount: supply—vertical, exhaust—horizontal
- Regreasable pillow block ball bearings, except 60" blade dia. fans are regreasable cast pillow block; 3FKD4, 7CC26, and 7AC80 to 7AD15 have sealed pillow block
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Designed for commercial applications requiring high volumes of air at low static pressures. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motors, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. More sizes available on Grainger.com.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

Standard-Duty— Feature 6-blade galvanized-steel propellers and rigid drive-frame rails.

Heavy-Duty— Feature 6-blade heavy-duty cast aluminum propellers and heavy-duty drive-frame channels.

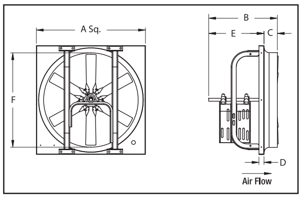
Standard-Duty

Blade Dia.	Dimensions (in) A	B	D	E	F	Recommended Accessories: Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	Motorized Galvanized Wall Shutter Item No.
20 in	24	19 ½	1	18 ½	20 ½	3FKF7	3FKF2	3FKF3	1WBU2	3C726
30 in	34	22 ⅞	1	21 ⅞	30 ⅜	3FKF9	1WBW1	1WBV2	1WBU4	3C728
36 in	40	23 ¼	1	22 ¼	36 ⅜	3FKG1	1WBW2	1WBV3	1WBU5	3C729
48 in	54	26	2	23 ⅛	48 ½	3FKG3	1WBW4	1WBV5	1WBU7	3C731
60 in	66	35 ½	2	33 ½	61	3FKG5	1WBW6	1WBV8	1WBU9	3C733

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	Fans Complete with Drive Package**: Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208-230/460, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 208-230/440V, 60 Hz Item No.	Fan without Motor & Drive Pkg.** Item No.
Standard-Duty													
20 in	3,581	3,148	2,469	1,160	¼	953	16.2	0.3	7AC80	7AC82	7AC81	7AC83	3FKD4
	3,904	3,517	2,954	2,037	⅓	1,039	17.2	0.4	7AC84	7AC86	7AC85	7AC87	
	4,587	4,277	3,873	3,333	½	1,221	20	0.6	7AC88	7AC90	7AC89	7AC91	
30 in	7,096	6,015	—	—	¼	621	13.2	0.3	7CC13	7CC14	7AC96	7CC15	1WDC6
	7,713	6,763	5,160	—	⅓	675	14.6	0.39	7CC16	7CC17	7AC97	7CC18	
	8,867	8,036	6,990	—	½	776	17.8	0.6	7CC19	7CC20	7AC98	7CC21	
	10,078	9,342	8,560	7,424	¾	882	22	0.9	7CC22	7CC23	7AC99	7CC24	
	11,061	10,385	9,736	8,847	1	968	26	1.2	7CC25	7CC26	7AD00	7CC27	
36 in	10,484	8,176	—	—	⅓	477	12.5	0.39	7CC28	7CC29	7AD01	7CC30	1WDC7
	12,220	10,328	—	—	½	556	15.8	0.6	7CC31	7CC32	7AD02	7CC33	
	13,802	12,156	10,205	—	¾	628	18.7	0.9	7CC34	7CC35	7AD03	7CC36	
	15,253	13,798	12,111	9,875	1	694	21	1.2	7CC37	7CC38	7AD04	7CC39	
	17,407	16,198	14,753	13,170	1½	792	28	1.8	7CC40	7CC41	7AD05	7CC42	
48 in	17,349	13,047	—	—	½	341	13.1	0.6	7CC58	7CC59	7AD10	7CC60	1WDC9
	19,995	16,655	—	—	¾	393	16.4	0.9	7CC61	7CC62	7AD11	7CC63	
	21,827	18,907	13,506	—	1	429	19.4	1.2	7CC64	7CC65	7AD12	7CC66	
	24,981	22,460	19,129	—	1½	491	22	1.8	7CC67	7CC68	7AD13	7CC69	
	27,474	25,206	22,529	18,065	2	540	25	2.4	7CC70	7CC71	7AD14	7CC72	
	31,442	29,484	27,395	24,703	3	618	29	3.6	—	—	7AD15	7D530	
Heavy-Duty													
60 in	48,356	44,215	39,274	—	5	485	35	5.75	—	—	7AC72	7AC73	3FKD6
	55,335	51,712	48,133	41,726	7½	555	45	8.63	—	—	7AC74	7AC75	
	60,918	57,628	54,364	50,737	10	611	54	11.5	—	—	7AC76	7AC77	
	69,692	66,816	63,943	61,110	15	699	74	17.25	—	—	7AC78	7AC79	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

1WDC1



Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

Standard-Duty Belt-Drive Exhaust Fans

Dayton

- Mount: exhaust—vertical, supply—horizontal
- 30" fans with drive package have sealed pillow block bearings; others have regreasable pillow block bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Designed for commercial applications requiring high volumes of air at low static pressures. Fans feature 6-blade galvanized-steel propellers, rigid drive-frame rails, and 1-pc. motor/bearing plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered. More sizes available on Grainger.com.

Blade Dia.	Dimensions (in) A	B	C	D	E	F	Recommended Accessories: Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	Wall Shutters: Galvanized Item No.	Aluminum Item No.	Fiberglass Item No.
30 in	34	21 ½	5 ¼	1	16 ¼	30 ⅜	3FKF9	1WBW1	1WBV2	1WBU4	1C055	3C309	5C216
36 in	40	22	6	1	16	36 ⅜	3FKG1	1WBW2	1WBV3	1WBU5	4C521	3C310	5C217
42 in	46	23 ½	6	2	17 ½	42 ½	3FKG2	1WBW3	1WBV4	1WBU6	1C210	3C311	5C219
48 in	54	23 ½	7	2	16 ½	48 ½	3FKG3	1WBW4	1WBV5	1WBU7	1C211	3C312	5C220

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	Fans Complete with Drive Package**: Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208-230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz Item No.	Fan without Motor & Drive Pkg.** Item No.
30 in	7,096	6,015	—	—	¼	621	13.2	0.3	7CC85	7CC86	7AD32	7CC87	1WDC1
	7,713	6,763	5,160	—	⅓	675	14.6	0.39	7CC88	7CC89	7AD33	7CC90	
	8,867	8,036	6,990	—	½	776	17.8	0.6	7CC91	7CC92	7AD34	7CC93	
	10,078	9,342	8,560	7,424	¾	882	22	0.9	7CC94	7CC95	7AD35	7CC96	
	11,061	10,385	9,736	8,847	1	968	26	1.2	7CC97	7CC98	7AD36	7CC99	
36 in	10,484	8,176	—	—	⅓	477	12.5	0.39	7CF01	7CF02	7AD37	7CF03	1WDC2
	12,220	10,328	—	—	½	556	15.8	0.6	7CF04	7CF05	7AD38	7CF06	
	13,802	12,156	10,205	—	¾	628	18.7	0.9	7CF07	7CF08	7AD39	7CF09	
	15,253	13,798	12,111	9,875	1	694	21	1.2	7CF10	7CF11	7AD40	7CF12	
	17,407	16,198	14,753	13,170	1 ½	792	28	1.8	7CF13	7CF14	7AD41	7CF15	
42 in	14,712	11,980	—	—	½	426	17.1	0.6	7CF16	7CF17	7AD42	7CF18	1WDC3
	16,646	14,327	10,507	—	¾	482	20	0.9	7CF19	7CF20	7AD43	7CF21	
	18,408	16,388	13,752	—	1	533	22	1.2	7CF22	7CF23	7AD44	7CF24	
	20,998	19,302	17,182	14,193	1 ½	608	26	1.8	7CF25	7CF26	7AD45	7CF27	
48 in	17,349	13,047	—	—	½	341	13.1	0.6	7CF31	7CF32	7AD46	7CF33	1WDC4
	19,995	16,655	—	—	¾	393	16.4	0.9	7CF34	7CF35	7AD47	7CF36	
	21,827	18,907	13,506	—	1	429	19.4	1.2	7CF37	7CF38	7AD48	7CF39	
	24,981	22,460	19,129	—	1 ½	491	22	1.8	7CF40	7CF41	7AD49	7CF42	
	27,474	25,206	22,529	18,065	2	540	25	2.4	7CF43	7CF44	7AD50	7CF45	
	31,442	29,484	27,395	24,703	3	618	29	3.6	—	—	7AD51	7D529	

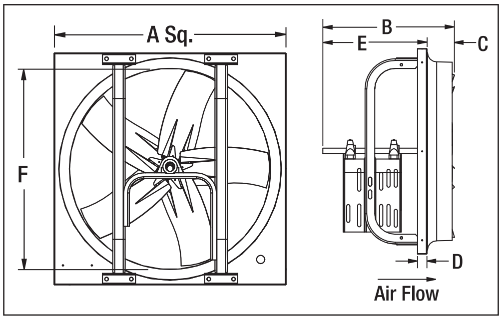
** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*

Medium-Duty Belt-Drive Exhaust Fans

- Mount: exhaust—vertical, supply—horizontal
- Regreasable pillow block ball bearings, except 20" blade dia. fans have sealed pillow block
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance (except 1AHA7)

Designed for commercial and industrial applications requiring high volumes of air at low static pressures. Fans feature 5-blade reinforced galvanized-steel propellers, heavy-duty drive-frame rails, and 1-pc. motor/bearing plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered.

Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.



Blade Dia.	Dimensions A	B	C	D	E	F	Recommended Accessories: Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.	CFM @ 0.000" SP††	Wall Shutters: Galvanized Item No.	Aluminum Item No.	Fiberglass Item No.
20 in	24 in	19 ½ in	3 ¼ in	1 in	16 ¼ in	20 ½ in	3FKF7	3FKF2	3FKF3	1WBU2	< 5700	1C745	4C559	5C214
											> 5700	—	4FZH6	—
24 in	28 in	18 in	4 ⅜ in	1 ¼ in	13 ⅝ in	24 ⅜ in	3FKF8	1WBV9	1WBV1	1WBU3	< 8300	1C746	3C308	5C215
											> 8300	—	4FZH7	—
30 in	34 in	20 in	5 ¼ in	1 ¼ in	14 ¾ in	30 ⅜ in	3FKF9	1WBW1	1WBV2	1WBU4	< 13,630	1C055	3C309	5C216
											> 13,630	—	4FZH8	—
36 in	40 in	22 in	6 in	1 in	16 in	36 ⅜ in	3FKG1	1WBW2	1WBV3	1WBU5	< 18,590	4C521	3C310	5C217
											> 18,590	—	4FZH9	—
42 in	46 in	23 ½ in	6 in	2 in	17 ½ in	42 ½ in	3FKG2	1WBW3	1WBV4	1WBU6	< 25,630	1C210	3C311	5C219
											< 30,750	—	4FZJ1	—
											> 30,750	3C730‡	—	—
48 in	54 in	23 ½ in	7 in	2 in	16 ½ in	48 ½ in	3FKG3	1WBW4	1WBV5	1WBU7	< 32,310	1C211	3C312	5C220
											> 32,310	—	4FZJ2	—
54 in	60 in	23 in	6 ½ in	2 in	16 ½ in	55 in	3FKG4	1WBW5	1WBV7	1WBU8	< 42,510	3C115	3C313	5C221
											> 42,510	3C732‡	—	5C221
60 in	66 in	26 ½ in	7 9⁄16 in	2 in	18 15⁄16 in	61 in	3FKG5	1WBW6	1WBV8	1WBU9	< 50,990	3C116	3C314	5C222
											> 50,990	3C733‡	—	—

†† CFM states minimum air volume to operate shutters. ‡ Motorized damper.

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	Fans Complete with Drive Package**: Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 208-220/440V Item No.	Totally Enclosed 3-Phase Motor 208-220/440V Item No.	Fans without Motor & Drive Pkg.** Item No.
20 in	4,404	3,672	—	—	¼	861	14.3	0.3	**7AD52**	**7AD54**	**7AD53**	**7AD55**	**3FKD8**
	4,844	4,156	—	—	⅓	947	16.1	0.4	**7AD56**	**7AD58**	**7AD57**	**7AD59**	
	5,550	4,919	4,269	—	½	1,085	17.9	0.6	**7AD60**	**7AD62**	**7AD61**	**7AD63**	
	6,348	5,764	5,325	4,479	¾	1,241	22	0.9	**7AD64**	—	**7AD65**	**7AD66**	
24 in	6,039	5,142	—	—	⅓	643	12.7	0.38	**7M7V7**	**7M7W2**	—	**7M7W9**	**1AHA1**
	6,950	6,216	4,806	—	½	740	14.7	0.58	**7M7V8**	**7M7W3**	—	**7M7X0**	
	7,927	7,296	6,514	—	¾	844	19.8	0.86	**7M7V9**	**7M7W4**	—	**7M7X1**	
	8,734	8,173	7,507	6,279	1	930	27	1.15	**7M7W0**	**7M7W5**	**7M7W7**	**7M7X2**	
	10,002	9,518	8,984	8,344	1 ½	1,065	46	1.73	**7AR52**	—	**7AR53**	—	
30 in	9,829	8,499	—	—	½	594	15.4	0.58	**7M7X4**	**7M7X9**	—	**7M7Y7**	**1AHA2**
	11,169	10,067	8,391	—	¾	675	18.3	0.86	**7M7X5**	**7M7Y0**	—	**7M7Y8**	
	12,328	11,355	9,977	—	1	745	21	1.15	**7M7X6**	**7M7Y1**	**7M7Y4**	**7M7Y9**	
	14,098	13,279	12,271	10,859	1 ½	852	26	1.73	**7M7X7**	**7M7Y2**	**7M7Y5**	**7M7Z0**	
	15,488	14,742	13,891	12,735	2	936	31	2.3	**7M7X8**	**7M7Y3**	**7M7Y6**	**7M7Z1**	
36 in	12,492	10,112	—	—	½	433	13.5	0.58	**7M7Z2**	**7M7Z7**	—	**7M807**	**1AHA3**
	14,223	12,197	—	—	¾	493	15.1	0.86	**7M7Z3**	**7M7Z8**	—	**7M808**	
	15,636	13,847	11,288	—	1	542	17.2	1.15	**7M7Z4**	**7M7Z9**	**7M803**	**7M809**	
	17,973	16,501	14,678	11,697	1 ½	623	22	1.73	**7M7Z5**	**7M800**	**7M804**	**7M810**	
	19,733	18,457	16,798	14,771	2	684	26	2.3	**7M7Z6**	**7M801**	**7M805**	**7M811**	
42 in	17,709	14,179	—	—	¾	380	15.5	0.86	**7M813**	**7M817**	—	**7M827**	**1AHA4**
	19,480	16,358	—	—	1	418	18.3	1.15	**7M814**	**7M818**	**7M822**	**7M828**	
	22,322	19,801	16,803	—	1 ½	479	23	1.73	**7M815**	**7M819**	**7M823**	**7M829**	
	24,419	22,147	19,318	14,534	2	524	26	2.3	**7M816**	**7M820**	**7M824**	**7M830**	
	28,101	26,182	23,819	21,503	3	603	31	3.45	—	**7M821**	**7M825**	**7M831**	
	33,227	31,632	29,866	27,693	5	713	38	5.75	—	—	**7M826**	**7M832**	
48 in	22,617	18,903	—	—	1	351	15.0	1.15	**7M833**	**7M836**	**7M840**	**7M845**	**1AHA5**
	25,839	22,767	17,182	—	1 ½	401	18.6	1.73	**7M834**	**7M837**	**7M841**	**7M846**	
	28,545	25,797	21,971	—	2	443	21	2.3	**7M835**	**7M838**	**7M842**	**7M847**	
	32,605	30,246	27,492	22,873	3	506	27	3.45	—	**7M839**	**7M843**	**7M848**	
54 in	30,129	26,014	—	—	1 ½	343	17.3	1.73	**7M850**	**7M852**	**7M855**	**7M860**	**1AHA6**
	32,589	28,800	22,253	—	2	371	19.0	2.3	**7M851**	**7M853**	**7M856**	**7M861**	
	37,683	34,407	30,466	—	3	429	25	3.45	—	**7M854**	**7M857**	**7M862**	
	44,535	41,763	38,990	35,068	5	507	43	5.75	—	—	**7M858**	**7M863**	
60 in	38,697	30,835	—	—	2	290	19.7	2.3	**7M865**	**7M866**	**7M868**	**7M873**	**1AHA7**
	44,302	37,736	—	—	3	332	24	3.45	—	**7M867**	**7M869**	**7M874**	
	52,442	47,037	40,624	—	5	393	30	5.75	—	—	**7M870**	**7M875**	
	60,048	55,356	50,229	43,743	7 ½	450	51	8.63	—	—	**7M871**	**7M876**	
	66,186	61,929	57,516	52,318	10	496	70	11.5	—	—	**7M872**	**7M877**	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*

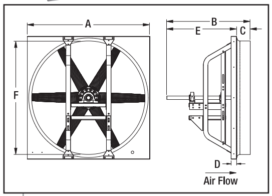
1AHA8

Heavy-Duty Belt-Drive Exhaust Fans

- Mount: exhaust—vertical, supply—horizontal
- Regreasable, cast pillow block ball bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance (except 1AHB5)

Designed for commercial and industrial applications requiring high volumes of air at low to medium static pressures. Fans feature 6-blade heavy-duty cast-aluminum propellers, heavy-duty drive-frame channels, bearing plate, and motor plate. Air handling-quality bearings meet a minimum of L10-100,000 hours. Motor, sheaves, bushings, and belts are packed separately when complete fan with drive package is ordered.

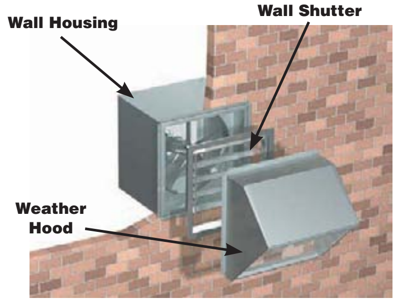
Note: OSHA complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards. See Index under Guards, Fan.

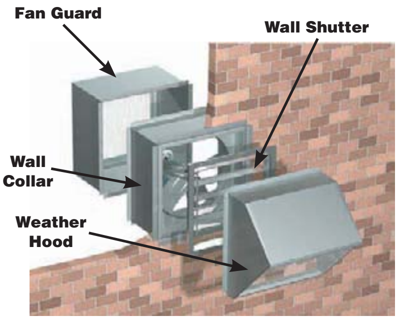


Blade Dia.	Dimensions (in) A	B	C	D	E	F	Recommended Accessories: Wall Housing Item No.	Weather Hood Item No.	Wall Collar Item No.	Fan Guard Item No.
24 in	28	18	4 ⅜	1 ¼	13 ⅝	24 ⅜	3FKF8	1WBV9	1WBV1	1WBU3
30 in	34	20	5 ¼	1 ¼	14 ¾	30 ⅜	3FKF9	1WBW1	1WBV2	1WBU4
36 in	40	22	6	1	16	36 ⅜	3FKG1	1WBW2	1WBV3	1WBU5
42 in	46	26 ⅜	6	2	20 ⅜	42 ½	3FKG2	1WBW3	1WBV4	1WBU6
48 in	54	28	7	2	21	48 ½	3FKG3	1WBW4	1WBV6	1WBU7
54 in	60	33 ½	6 ½	2	27	55	3FKG4	1WBW5	1WBV7	1WBU8
60 in	66	34	7 9/16	2	26 7/16	61	3FKG5	1WBW6	1WBV8	1WBU9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Exhaust/ Supply Fan Motor HP	Fan RPM	Sones @ 0.000" @ 5 ft.#	Max. BHP†	Fans Complete with Drive Package**: Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 208-230/460V Item No.	Totally Enclosed 3-Phase Motor 208-230/460V Item No.	Fan without Motor & Drive Pkg.** Item No.
24 in	5,608	4,889	3,679	—	—	—	—	⅓	814	14.2	0.38	7AR54	7AR55	—	7AR56	1AHA8
	6,469	5,867	4,987	3,648	1,158	—	—	½	939	17.7	0.58	7M878	7M882	—	7M888	
	7,357	6,847	6,194	5,282	2,339	1,469	—	¾	1,068	21	0.86	7M879	7M883	—	7M889	
	8,115	7,669	7,127	6,375	5,503	2,475	1,686	1	1,178	24	1.15	7M880	7M884	7M886	7M890	
30 in	9,474	7,888	—	—	—	—	—	½	687	16.3	0.58	7AR57	7AR58	—	7AR59	1AHA9
	10,798	9,474	7,730	—	—	—	—	¾	783	19.7	0.86	7M892	7M896	—	7M8A5	
	11,901	10,739	9,276	—	—	—	—	1	863	23	1.15	7M893	7M897	7M8A1	7M8A6	
	13,639	12,646	11,452	10,112	—	—	—	1 ½	989	27	1.73	7M894	7M898	7M8A2	7M8A7	
	14,990	14,090	13,072	11,885	10,489	—	—	2	1,087	31	2.3	7M895	7M899	7M8A3	7M8A8	
36 in	14,345	11,967	—	—	—	—	—	¾	620	20	0.86	7AR60	7AR61	—	7AR62	1AHB1
	15,803	13,762	—	—	—	—	—	1	683	23	1.15	7M8B0	7M8B3	7M8B7	7M8C2	
	18,117	16,453	14,122	—	—	—	—	1 ½	783	28	1.73	7M8B1	7M8B4	7M8B8	7M8C3	
	19,922	18,434	16,458	13,986	—	—	—	2	861	31	2.3	7M8B2	7M8B5	7M8B9	7M8C4	
	22,791	21,529	19,987	18,080	—	—	—	3	985	38	3.45	—	7M8B6	7M8C0	7M8C5	
	26,979	25,947	24,763	23,368	21,737	20,121	—	5	1,166	50	5.75	—	—	7M8C1	7M8C6	
42 in	18,024	14,838	—	—	—	—	—	1	528	17.8	1.15	7AR63	7AR64	7AR65	7AR66	1AHB2
	20,652	17,843	—	—	—	—	—	1 ½	605	21	1.73	7M8C7	7M8C9	7M8D2	7M8D7	
	22,735	20,142	17,272	—	—	—	—	2	666	24	2.3	7M8C8	7M8D0	7M8D3	7M8D8	
	26,012	23,867	21,621	18,395	—	—	—	3	762	31	3.45	—	7M8D1	7M8D4	7M8D9	
	30,825	29,065	27,028	25,215	22,372	—	—	5	903	41	5.75	—	—	7M8D5	7M8E0	
48 in	26,377	21,773	—	—	—	—	—	1 ½	524	24	1.73	7AR67	7AR68	7AR69	7AR70	1AHB3
	28,995	24,803	—	—	—	—	—	2	576	27	2.3	7M8E2	7M8E3	7M8E5	7M8F0	
	33,223	29,689	25,707	—	—	—	—	3	660	32	3.45	—	7M8E4	7M8E6	7M8F1	
	39,364	36,499	33,176	29,728	—	—	—	5	782	40	5.75	—	—	7M8E7	7M8F2	
	45,053	42,635	39,778	36,972	33,755	—	—	7 ½	895	49	8.63	—	—	7M8E8	7M8F3	
54 in	29,332	25,255	—	—	—	—	—	2	419	22	2.3	7AR71	7AR72	7AR73	7AR74	1AHB4
	33,602	30,247	25,975	—	—	—	—	3	480	27	3.45	7M8F5	7M8F6	—	7M8G1	
	39,833	37,674	33,796	30,011	—	—	—	5	569	37	5.75	—	—	7M8F7	7M8G2	
	45,573	43,687	40,399	37,596	33,972	—	—	7 ½	651	48	8.63	—	—	7M8F8	7M8G3	
	50,124	48,408	45,926	42,953	40,218	36,437	—	10	716	59	11.5	—	—	7M8F9	7M8G4	
60 in	40,778	35,888	26,441	—	—	—	—	3	409	27	3.45	7AR75	7AR76	7AR77	7AR78	1AHB5
	48,356	44,215	39,274	—	—	—	—	5	485	35	5.75	—	—	7M8G6	7M8H1	
	55,335	51,712	48,133	41,726	—	—	—	7 ½	555	45	8.63	—	—	7M8G7	7M8H2	
	60,918	57,628	54,364	50,737	43,055	—	—	10	611	54	11.5	—	—	7M8G8	7M8H3	
	69,692	66,816	63,943	61,110	57,579	50,855	44,128	15	699	74	17.25	—	—	7M8G9	7M8H4	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed.*





Exhaust and Supply Fan Accessories

Galvanized steel accessories are for use with Dayton belt- and direct-drive exhaust and supply propeller fans. Shipped unassembled; assembly hardware included.

Wall Housings—OSHA-compliant screen completely protects motor drive side of fan.

Weather Hoods—Each includes bird screen.

Wall Collars—Internal flange for mounting shutters; external flange provides flashing for wall opening.

Fan Guards—OSHA-compliant screen completely encloses motor drive side of fan.

Note: OSHA-compliant guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

For Fan Dia. (in.)	W (in.) (sq.)	D (in.)	Gauge	Item No.
Wall Housings				
8 in	12 ⅛ in	21 in	18	**16D560**
10 in	14 ⅛ in	21 in	18	**16D561**
12 in	16 ⅛ in	23 in	18	**3FKF4**
14 in	18 ⅛ in	21 in	18	**16D562**
16 in	20 ⅛ in	27 in	18	**3FKF5**
18 in	22 ⅛ in	28 in	18	**3FKF6**
20 in	24 ⅛ in	32 in	18	**3FKF7**
24 in	28 ⅛ in	37 in	18	**3FKF8**
30 in	34 ⅛ in	38 in	18	**3FKF9**
36 in	40 ⅛ in	39 in	18	**3FKG1**
42 in	46 ⅛ in	44 in	18	**3FKG2**
48 in	54 ¼ in	44 in	16	**3FKG3**
54 in	60 ¼ in	52 in	16	**3FKG4**
60 in	66 ¼ in	54 in	16	**3FKG5**
Weather Hoods				
8 in	12 ⅛ in	11 ⅛ in	20	**16D554**
10 in	14 ⅛ in	12 ½ in	20	**16D555**
12 in	16 ⅛ in	14 ¼ in	20	**16D556**
14 in	18 ⅛ in	15 ½ in	20	**16D557**
16 in	20 ⅛ in	17 in	20	**16D558**
18 in	22 ⅛ in	18 ¼ in	20	**16D559**
20 in	24 ⅛ in	18 ⅝ in	18	**3FKF2**
24 in	28 ⅛ in	21 in	18	**1WBV9**
30 in	34 ⅛ in	25 in	18	**1WBW1**
36 in	40 ⅛ in	29 in	18	**1WBW2**
42 in	46 ⅛ in	33 in	18	**1WBW3**
48 in	54 ¼ in	38 in	18	**1WBW4**
54 in	60 ¼ in	44 ½ in	18	**1WBW5**
60 in	66 ¼ in	48 ⅜ in	18	**1WBW6**

For Fan Dia. (in.)	W (in.) (sq.)	D (in.)	Gauge	Item No.
Standard Wall Collars				
8 in	12 ⅛ in	10 ½ in	20	**16D548**
10 in	14 ⅛ in	11 ½ in	20	**16D549**
12 in	16 ⅛ in	12 in	20	**16D550**
14 in	18 ⅛ in	12 ½ in	20	**16D551**
16 in	20 ⅛ in	12 ½ in	20	**16D552**
18 in	22 ⅛ in	12 ½ in	20	**16D553**
20 in	24 ⅛ in	17 ½ in	18	**3FKF3**
24 in	28 ⅛ in	18 ½ in	18	**1WBV1**
30 in	34 ⅛ in	19 ½ in	18	**1WBV2**
36 in	40 ⅛ in	21 ½ in	18	**1WBV3**
42 in	46 ⅛ in	21 ½ in	18	**1WBV4**
48 in	54 ¼ in	23 ½ in	18	**1WBV5** *
Heavy Duty Wall Collars				
48 in	54 ¼ in	23 ½ in	16	**1WBV6** *
54 in	60 ¼ in	23 ½ in	16	**1WBV7**
60 in	66 ¼ in	23 ½ in	16	**1WBV8**
Fan Guards				
8 in	12 ⅛ in	8 ¾ in	20	**16D545**
10 in	14 ⅛ in	8 ½ in	20	**16D546**
12	16⅛	14	20	**1WBT8**
14 in	18 ⅛ in	8 ½ in	20	**16D547**
16	20⅛	14	20	**1WBT9**
18	22⅛	14	20	**1WBU1**
20	24⅛	14	20	**1WBU2**
24	28⅛	21	18	**1WBU3**
30	34⅛	21	18	**1WBU4**
36	40⅛	27	18	**1WBU5**
42	46⅛	30	18	**1WBU6**
48	54¼	32	18	**1WBU7**
54	60¼	34	16	**1WBU8**
60	66¼	37	16	**1WBU9**

** Fits only Shutters 53DR15 and 53DR19.*

Dayton®

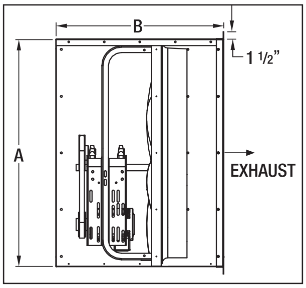
AMCA CERTIFIED RATINGS — SOUND AND AIR PERFORMANCE

Belt-Drive Wall-Mount Cabinet Exhaust and Supply Fans

- Fully assembled fan packages for through-the-wall installation
- Motors: open dripproof
- Regreasable cast pillow block ball bearings
- Max. inlet/ambient temp.: 104°F
- Variable pitch, adjustable motor pulley optimizes fan performance

Belt-drive fans are designed for commercial/industrial applications that require delivery of high volumes of air at low static pressures. Air handling-quality bearings meet a minimum of L10-100,000 hours. Features include galvanized steel fan panel, fabricated steel propeller, and bolted cabinets. Exhaust damper blade is top-pivoting gravity return; supply damper blade is bottom-pivoting spring return. Wall-mounting angles included.

1AHB6



Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	Fan Voltage	Phase	Full Load Amps	Exhaust/ Supply Fan Motor HP	Max. BHP†	Fan RPM	Sones @ 0.125" SP @ 5 ft.#	Dim. A	Dim. B	Item No.
Exhaust Fans													
24 in	5,056	4,097	3,100	115/208-230V AC	1	8.0/4.0-4.0	½	0.58	765	12.9	28 ¼ in	34 ⅛ in	**1AHB6**
	5,796	4,950	4,165	208-230/460V AC	3	2.8-2.7/1.4	¾	0.86	877	16.0	28 ¼ in	34 ⅛ in	**1AHB7**
30 in	8,542	7,110	5,297	115/208-230V AC	1	11.0/5.5-5.4	¾	0.87	651	16.2	34 ¼ in	34 ⅛ in	**1AHB8**
	9,408	8,131	6,633	208-230/460V AC	3	3.5-3.6/1.8	1	1.18	717	18.9	34 ¼ in	34 ⅛ in	**1AHB9**
36 in	12,365	10,512	7,712	115/208-230V AC	1	13.0/7.0-7.0	1	1.16	534	16.3	40 ¼ in	34 ⅝ in	**1AHD1**
	14,148	12,611	10,527	208-230/460V AC	3	4.6-4.2/2.1	1 ½	1.73	611	21	40 ¼ in	34 ⅝ in	**1AHD2**
42 in	14,346	12,157	7,848	115/208-230V AC	1	13.0/7.0-7.0	1	1.15	422	17.5	46 ¼ in	34 ⅝ in	**1AHD3**
	16,386	14,520	11,551	208-230/460V AC	3	4.6-4.2/2.1	1 ½	1.73	482	21	46 ¼ in	34 ⅝ in	**1AHD4**
	20,669	19,312	17,640	208-230/460V AC	3	15.4-14.2/7.1	3	3.45	608	24	46 ¼ in	34 ⅝ in	**6LFC2**
	24,477	23,361	22,019	208-230/460V AC	3	13.6-12.8/6.4	5	5.75	720	62	46 ¼ in	34 ⅝ in	**6LFC3**
48 in	18,435	13,085	8,238	115/208-230V AC	1	13.0/7.0-7.0	1	1.15	354	14.8	54 ¼ in	36 ⅝ in	**1AHD5**
	23,174	19,870	15,154	208-230/460V AC	3	6.0-5.6/2.9	2	2.31	445	20	54 ¼ in	36 ⅝ in	**1AHD6**
	26,611	23,913	19,100	208-230/460V AC	3	15.4-14.2/7.1	3	3.45	511	38	54 ¼ in	36 ⅝ in	**6LFC4**
	31,506	29,520	26,636	208-230/460V AC	3	13.6-12.8/6.4	5	5.75	605	53	54 ¼ in	36 ⅝ in	**6LFC5**
54 in	35,881	34,002	31,574	208-230/460V AC	3	13.6-12.8/6.4	5	5.53	518	41	60 ¼ in	39 ⅝ in	**1AHD7**
Supply Fans													
24 in	4,988	4,206	3,321	115/208-230V AC	1	8.0/4.0-4.0	½	0.58	778	13.6	28 ¼ in	34 ⅛ in	**1AJA7**
30 in	9,403	8,310	6,536	115/208-230V AC	1	13.0/7.0-7.0	1	1.15	720	19.3	34 ¼ in	34 ⅛ in	**1AJA8**
36 in	13,913	12,435	10,110	208-230/460V AC	3	4.6-4.2/2.1	1 ½	1.73	619	21	40 ¼ in	34 ⅝ in	**1AJA9**
48 in	23,177	19,858	15,591	208-230/460V AC	3	6.0-5.6/2.9	2	2.31	440	19.9	54 ¼ in	36 ⅝ in	**1AJB1**
54 in	36,830	34,067	31,251	208-230/460V AC	3	13.6/12.8-6.4	5	5.65	520	42	60 ¼ in	39 ⅝ in	**1RBD8**

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of bird screen and damper in the air stream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

Dayton®

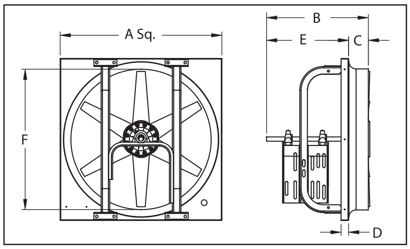
Reversible Belt-Drive Exhaust/Supply Fans

- Mount: vertical
- Regreasable cast pillow block bearings
- Max. inlet/ambient temp.: 104°F
- Variable-pitch, adjustable motor pulley optimizes fan performance

Designed for commercial and industrial applications requiring both supply and exhaust air. Fans feature 6-blade cast-aluminum propellers and rigid drive-frame rails. Motor, sheaves, bushings, belts, and reversing switch are packed separately when complete fan with drive package is ordered. Air handling-quality bearings meet a min, of L10-100,000 hr.

Note: OSHA-complying guards are required when a fan is installed within 8 ft. of floor, working level, or within reach of personnel. Review OSHA codes and UL standards.

4YGA3



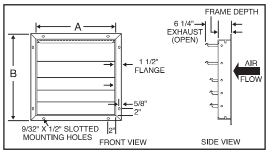
Blade Dia.	Dimensions (in) A	B	C	D	E	F	RECOMMENDED ACCESSORIES Wall Housing Item No.	Weather Hood Item No.	Fan Guard Item No.	Wall Collar Item No.	Motorized Damper Item No.
30 in	34	21 ½	5 ¼	1	16 ¼	30 ⅜	3FKF9	1WBW1	1WBU4	1WBV2	3C728
36 in	40	22	6	1	16	36 ⅜	3FKG1	1WBW2	1WBU5	1WBV3	3C729
48 in	54	23 ½	7	2	16 ½	48 ½	3FKG3	1WBW4	1WBU7	1WBV5	3C731

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	Exhaust/ Supply Fan Motor HP	Max. BHP†	Fan RPM	FANS COMPLETE WITH DRIVE PACKAGE** Open Dripproof Capacitor Motor 115/230V, 60 Hz Item No.	Totally Enclosed Capacitor Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 208/440V, 60Hz Item No.	Totally Enclosed 3-Phase Motor 208-230/440V, 60Hz Item No.	FAN WITHOUT MOTOR & DRIVE PKG** Item No.
30 in	7780	5978	—	—	⅓	0.38	714	**7AP95**	**7AP96**	**7AP97**	**7AP98**	**4YGA3**
	8989	7614	—	—	½	0.58	825	**7AP99**	**7AR00**	**7AR01**	**7AR02**	
	10,221	9081	7219	—	¾	0.86	938	**7AR03**	**7AR04**	**7AR05**	**7AR06**	
	11,245	10,228	8817	—	1	1.15	1032	**7AR07**	**7AR08**	**7AR09**	**7AR10**	
	12,901	12,043	10,999	9470	1 ½	1.73	1184	**7AR11**	**7AR12**	**7AR13**	**7AR14**	
	14,165	13,400	12,516	11,379	2	2.3	1300	**7AR15**	—	**7AR16**	**7AR17**	
36 in	11,037	8967	—	—	½	0.57	659	**7CK38**	**7CK39**	**7AR19**	**7CK40**	**1WDN2**
	12,645	10,874	—	—	¾	0.85	755	**7CK41**	**7CK42**	**7AR20**	**7CK43**	
	13,901	12,316	10,429	—	1	1.13	830	**7CK44**	**7CK45**	**7AR21**	**7CK46**	
	15,927	14,602	13,074	10,104	1 ½	1.79	951	**7CK47**	**7CK48**	**7AR22**	**7CK49**	
	17,519	16,359	14,955	13,436	2	2.26	1046	**7CK50**	**7CK51**	**7AR23**	**7CK52**	
	20,131	19,149	17,957	16,757	3	3.45	1202	**7AR24**	**7AR25**	**7AR26**	**7AR27**	
	23,782	22,951	22,043	20,995	5	5.75	1420	—	—	**7AR28**	**7AR29**	
48 in	19,105	13,420	—	—	¾	0.86	539	**7AR30**	**7AR31**	**7AR32**	**7AR33**	**4YGA4**
	20,913	16,100	—	—	1	1.15	590	**7AR34**	**7AR35**	**7AR36**	**7AR37**	
	23,678	19,795	13,596	—	1 ½	1.73	668	**7AR38**	**7AR39**	**7AR40**	**7AR41**	
	26,301	22,968	17,867	—	2	2.3	742	**7AR42**	**7AR43**	**7AR44**	**7AR45**	
	30,022	27,229	23,404	18,372	3	3.45	847	**7AR46**	**7AR47**	**7AR48**	**7AR49**	
	35,694	33,508	30,682	27,130	5	5.75	1007	—	—	**7AR50**	**7AR51**	

** Performance is for exhaust fan installation type A: free inlet, free outlet. Supply fan performance is approx. 20% less for each horsepower (HP). † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field. Values are for installation type A: free inlet sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Single- and Double-Panel Exhaust Shutters

Dayton



1C742

3HHN6

2FTW1

- Exhaust only
- Mount: vertical
- Max. velocity: 2500 fpm
- 1½" flange

Efficient shutters for direct- or belt-driven exhaust fans are designed to prevent air backflow when the fan is off. Counterbalanced louvers with felted edges (except fiberglass models) open easily and seal quietly. Units with 54" and 60" galvanized and aluminum shutters have 4 additional tie rods on the discharge side for smooth, quiet operation.

G-90 Galvanized Steel Frame—For general purpose applications. 26-ga. mill-finish aluminum louvers with galvanized steel reinforcement strip. Stainless steel rivets. Frame depth: 2½" for 10" to 24" models, 3" for models 30" and up.

Extruded Aluminum Frame—For areas where corrosion may be a problem. Aluminum louvers have white enamel finish, galvanized steel reinforcement strip, and stainless steel rivets.

Fiberglass Frame—For use in areas where corrosion is a known problem, such as chemical plants and poultry/swine confinement operations. Heavy-duty fiberglass frame with stainless steel pins and bearings at pivot points. 3"-deep frame and 14-ga. tie rod, except 10" and 12" models have 16-ga. tie rod. Optional Shutter Motors 45C683, 45C664, and 45C665 can be used without additional motor setup; sold separately on this page.

Front-Flange, Extruded Aluminum Frame—For cabinet fans and flush-mount wall exhaust applications. Frame has G-90 galvanized steel tie rods and stainless steel rivets and pivot pins. Mill-finish aluminum louvers with galvanized steel reinforcement strip open easily and minimize load on the fan.

Stainless Steel Frame—For applications that require extreme corrosion resistance. Frame, louvers, tie rods, and all fasteners are stainless steel. Frame depth: 2". Shutter motors not available.

Optional Shutter Motors For Single-Panel Shutters—For exhaust installations on single-panel shutters only; vertical mount only. 6¾"H x 4"W x 4¾"D (installed depth from frame back). Actuator includes end switch. 100-240V, 2.0/1.3A, 50/60 Hz.

Optional Shutter Motors For Double-Panel Shutters—For exhaust installations on double-panel shutters only; vertical mount only. Dimensions include installed depth from frame back:

24N065: 6½"H x 4"W x 6¼"D. 100-240V, 2.0/1.3A, 50/60 Hz. Actuator includes end switch.

4C885: 9¾"H x 5⅞"W x 7¼"D. 100-240V, 0.25/0.20A, 60 Hz. Includes 6" leads with junction box.

Optional Pull Chain Kits—Adapt single- or double-panel exhaust shutters for manual operation. Each includes zinc-plated S-hooks, return springs, and 4-ft. pull chain.

Fits Fan Dia.	Shutter Opening Required, A	Shutter Overall Size, B	Shutter Free Area	G-90 GALVANIZED STEEL FRAME AND TIE RODS Item No.	EXTRUDED ALUMINUM FRAME AND G-90 GALVANIZED TIE RODS Item No.	FIBERGLASS FRAME AND STAINLESS STEEL TIE RODS Item No.	FRONT FLANGE, EXTRUDED ALUMINUM FRAME AND G-90 GALVANIZED TIE RODS Item No.	STAINLESS STEEL FRAME AND TIE RODS Item No.
Gravity Operated, Single Panel								
10 in	10½" x 10½"	13" x 13"	0.645 sq ft	**2C526**	**4C555**	**5C210**	**3HHN4**	**4FZJ3**
12 in	12½" x 12½"	15" x 15"	0.786 sq ft	**1C742**	**4C556**	**5C211**	**3HHN5**	**4FZJ4**
	14½" x 14½"	17" x 17"	0.927 sq ft	**53DR10**	**53DR12**	—	**53DR16**	—
16 in	16½" x 16½"	19" x 19"	1.436 sq ft	**1C743**	**4C557**	**5C212**	**3HHN6**	**4FZJ5**
18 in	18½" x 18½"	21" x 21"	2.043 sq ft	**1C744**	**4C558**	**5C213**	**3HHN7**	**4FZJ6**
20 in	20½" x 20½"	23" x 23"	2.281 sq ft	**1C745**	**4C559**	**5C214**	**3HHN8**	**4FZJ7**
	22½" x 22½"	25" x 25"	2.519 sq ft	**53DR11**	**53DR13**	—	**53DR17**	—
24 in	24½" x 24½"	27" x 27"	3.32 sq ft	**1C746**	**3C308**	**5C215**	**2FTW6**	—
30 in	30½" x 30½"	33" x 33"	5.452 sq ft	**1C055**	**3C309**	**5C216**	**2FTX1**	—
36 in	36½" x 36½"	39" x 39"	7.436 sq ft	**4C521**	**3C310**	**5C217**	**2FTW7**	—
	39½" x 39½"	42" x 42"	8.995 sq ft	—	**53DR14**	—	**53DR18**	—
Gravity Operated, Double Panel								
24 in	24½" x 24½"	27" x 27"	3.32 sq ft	—	—	—	—	**4FZJ8**
30 in	30½" x 30½"	33" x 33"	5.452 sq ft	—	—	—	—	**4FZJ9**
36 in	36½" x 36½"	39" x 39"	7.071 sq ft	**1C209**	**4C835**	—	**3HHN9**	—
	36½" x 36½"	39" x 39"	7.436 sq ft	—	—	—	—	**4FZK1**
42 in	42½" x 42½"	45" x 45"	10.253 sq ft	**1C210**	**3C311**	—	**2FTW1**	—
48 in	48½" x 48½"	51" x 51"	12.924 sq ft	**1C211**	**3C312**	—	**2FTX3**	—
	51½" x 51½"	54" x 54"	14.841 sq ft	—	**53DR15**	—	**53DR19**	—
54 in	54½" x 54½"	57" x 57"	17.007 sq ft	**3C115**	**3C313**	—	**3HHP1**	—
60 in	60½" x 60½"	63" x 63"	20.399 sq ft	**3C116**	**3C314**	—	**3HHP2**	—

Accessories	Item No.
Optional Shutter Motor For Use with Single-Panel Wall Shutters (Except Fiberglass)	**24N064**
Optional Shutter Counterclockwise Rotation Motor For Use with Double-Panel Wall Shutters (Except Fiberglass)	**24N065**
Optional Shutter Motor For Use with Dayton(R) Double-Panel Exhaust Shutters 54 in to 60 in (Except Fiberglass)	**4C885**
Optional Pull Chain Kit For Use with Dayton(R) Single-Panel Exhaust Shutters	**2FTW3**
Optional Pull Chain Kit For Use with Dayton(R) Double-Panel Exhaust Shutters	**2FTY2**

High Velocity Single- and Double-Panel Exhaust Shutters

Dayton

4FZH4

- Exhaust only
- Mount: vertical
- Max. velocity: 3000 fpm
- 1½" flange

Designed to prevent air backflow in high-velocity applications when the fan is off. Mill-finish extruded aluminum frame and louvers with stainless steel tie rods and fasteners provide strength, durability, and long-lasting corrosion resistance. Prepunched mounting holes; installation hardware not included.

Optional Pull Chain Kits—Adapt single- or double-panel exhaust shutters for manual operation. Each includes zinc-plated S-hooks, return springs, and 4-ft. pull chain.

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Shutter Free Area	Frame Depth	Open Depth	EXTRUDED ALUMINUM FRAME & STAINLESS STEEL TIE RODS Item No.
Gravity Operated, Single Panel						
12 in	12½ in x 12½ in	15 in x 15 in	0.786 sq ft	3 in	6 ¼ in	**4FZH3**
16 in	16½ in x 16½ in	19 in x 19 in	1.436 sq ft	3 in	6 ¼ in	**4FZH4**
18 in	18½ in x 18½ in	21 in x 21 in	2.043 sq ft	3 in	6 ¼ in	**4FZH5**
20 in	20½ in x 20½ in	23 in x 23 in	2.281 sq ft	3 in	6 ¼ in	**4FZH6**
24 in	24½ in x 24½ in	27 in x 27 in	3.32 sq ft	3 in	6 ¼ in	**4FZH7**
30 in	30½ in x 30½ in	33 in x 33 in	5.452 sq ft	3 in	6 ¼ in	**4FZH8**
36 in	36½ in x 36½ in	39 in x 39 in	7.436 sq ft	3 in	6 ¼ in	**4FZH9**
Gravity Operated, Double Panel						
42 in	42½ in x 42½ in	45 in x 45 in	10.253 sq ft	3 in	6 ¼ in	**4FZJ1**
48 in	48½ in x 48½ in	51 in x 51 in	12.924 sq ft	3 in	6 ¼ in	**4FZJ2**
54 in	54½ in x 54½ in	57 in x 57 in	17.007 sq ft	3 in	6 ¼ in	**45C662**
60 in	60½ in x 60½ in	63 in x 63 in	20.399 sq ft	3 in	6 ¼ in	**45C663**

Accessories	Item No.
Optional Shutter Motor For Use with High-Velocity and Fiberglass Single-Panel Exhaust Shutters 10" to 36"	**45C683**
Optional Shutter Motor For Use with High-Velocity and Fiberglass Double-Panel Exhaust Shutters 36" to 48"	**45C664**
Optional Shutter Motor For Use with High-Velocity and Fiberglass Double-Panel Exhaust Shutters 49" to 60"	**45C665**
Optional Pull Chain Kit For Use with Dayton(R) Single-Panel Exhaust Shutters	**2FTW3**
Optional Pull Chain Kit For Use with Dayton(R) Double-Panel Exhaust Shutters	**2FTY2**

Dayton®

Agricultural Wall Exhaust Shutters

- Max. velocity: 2500 fpm

For direct- or belt-drive exhaust fans. Excellent for poultry and swine confinement operations and anywhere corrosion is a problem.

G-90 Galvanized Steel Frame and Tie Rods— Designed as replacement shutters for cone and slant-wall fans. Felted louvers with galvanized steel reinforcement strip open easily and seal quietly. G-90 galvanized tie rods and stainless steel hardware. 9⁄32" x ½" prepunched mounting holes.

Extruded Aluminum Frame and Tie Rods— Constructed of extruded aluminum frames with roll-formed louvers and counterbalancing strips. Stainless steel fasteners provide excellent corrosion resistance in agricultural applications. Prepunched mounting holes.

2FTX7

2FTX8

45C666

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Flange Width	Frame Depth	Shutter Free Area	No. of Panels	Item No.
G-90 Galvanized Steel Frame and Tie Rods							
36 in	39½ in x 39½ in	42 in x 42 in	1 ½ in	3 in	8.995 sq ft	1	**2FTX7**
48 in	51½ in x 51½ in	54 in x 54 in	1 ½ in	3 in	14.841 sq ft	2	**2FTX8**
	54 in x 54½ in	57¼ in x 57¼ in	1 ½ in	3 in	16.683 sq ft	2	**4GY95**
Extruded Aluminum Frame and Tie Rods							
36 in	39½ in x 39½ in	42 in x 42 in	1 ½ in	2 ¼ in	10.253 sq ft	2	**45C666**
48 in	51½ in x 51½ in	54 in x 54 in	1 ½ in	2 ¼ in	14.841 sq ft	2	**45C667**
54 in	54½ in x 54½ in	57 in x 57 in	1 ½ in	2 ¼ in	16.683 sq ft	2	**45C668**

Dayton®

Supply Fan Wall Shutters

- Max. velocity: 2250 fpm

26-ga. aluminum louvers have G-90 galvanized reinforcement strip and felted edges to open easily and seal quietly. Frame is 0.062 mill-finish extruded aluminum. Stainless steel hardware with spring-assist closure.

4YN17

WARNING: Do not use with vaneaxial or tubeaxial fans.

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Flange Width	Frame Depth	Open Depth	Shutter Free Area	Item No.
24 in	25 in x 25 in	26¾ in x 26¾ in	1 ½ in	1 19⁄32 in	6 in	3.221 sq ft	**4YN17**
30 in	31 in x 31 in	32¾ in x 32¾ in	1 ½ in	1 19⁄32 in	6 in	4.779 sq ft	**3HHT1**
36 in	37 in x 37 in	38¾ in x 38¾ in	1 ½ in	1 19⁄32 in	6 in	6.629 sq ft	**4YN18**
42 in	43 in x 43 in	44¾ in x 44¾ in	1 ½ in	1 19⁄32 in	6 in	9.744 sq ft	**3HHT2**
48 in	49 in x 49 in	50¾ in x 50¾ in	1 ½ in	1 19⁄32 in	6 in	12.323 sq ft	**4YN19**

Dayton®

Economy Wall Exhaust Shutters

- Max. velocity: 2000 fpm

Shutters open automatically when fan is activated. Frame is G-90 galvanized steel. 26-ga. mill-finish aluminum louvers are felted on leading edge for quiet operation. Nylon bushings and stainless steel pivot pins. 9⁄32" x ½" mounting holes.

2C518

WARNING: Do not use with vaneaxial or tubeaxial fans.

Fits Fan Dia.	Shutter Opening Req.	Shutter Overall Size	Flange Width	Frame Depth	Shutter Free Area	Item No.
10 in	10½ in x 10½ in	13 in x 13 in	1 ½ in	2 ¼ in	0.65 sq ft	**2C517**
12 in	12½ in x 12½ in	15 in x 15 in	1 ½ in	2 ¼ in	0.791 sq ft	**2C518**
14 in	14½ in x 14½ in	17 in x 17 in	1 ½ in	2 ¼ in	1.254 sq ft	**3HHP5**
16 in	16½ in x 16½ in	19 in x 19 in	1 ½ in	2 ¼ in	1.443 sq ft	**2C520**
18 in	18½ in x 18½ in	21 in x 21 in	1 ½ in	2 ¼ in	2.051 sq ft	**2C521**
20 in	20½ in x 20½ in	23 in x 23 in	1 ½ in	2 ¼ in	2.289 sq ft	**2C522**
20 in	22½ in x 22½ in	25 in x 25 in	1 ½ in	2 ¼ in	2.527 sq ft	**53DR20**
24 in	24½ in x 24½ in	27 in x 27 in	1 ½ in	2 ¼ in	3.33 sq ft	**2C523**

Dayton®

Door Louvers

Rugged metal construction is designed to allow air movement through doors while maintaining privacy and security. Retrofit or use as original equipment in 1⅜"- to 2¼"-thick wood or metal doors. Blades are inverted V-style, 45° angle. Choose clear-finish aluminum or gray-painted steel. Each includes installation screws.

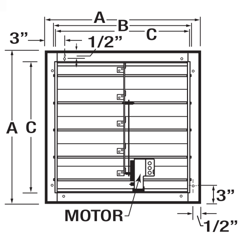
Louver Overall Width	Louver Overall Height	Louver Cutout Width	Louver Cutout Height	Flange Width (in.)	Louver Free Area	EXTRUDED ALUMINUM Item No.	STEEL Item No.
10 ¼ in	10 ⅛ in	8 ½ in	8 ½ in	1 3⁄16 in	0.28 sq ft	**6WRK4**	**6WRH6**
12 ¼ in	6 ⅛ in	10 ½ in	4 ½ in	1 3⁄16 in	0.171 sq ft	**6WRK5**	**6WRH7**
14 ¼ in	10 ⅛ in	12 ½ in	8 ½ in	1 3⁄16 in	0.361 sq ft	**6WRK6**	**6WRH8**
	14 ⅛ in	12 ½ in	12 ½ in	1 3⁄16 in	0.546 sq ft	**5NKK9**	**6WRH9**
16 ¼ in	10 ⅛ in	14 ½ in	8 ½ in	1 3⁄16 in	0.422 sq ft	**5NKL0**	**6WRJ0**
	14 ⅛ in	14 ½ in	12 ½ in	1 3⁄16 in	0.638 sq ft	**5NKL1**	**6WRJ1**
18 ¼ in	10 ⅛ in	16 ½ in	8 ½ in	1 3⁄16 in	0.482 sq ft	**5NKL2**	**6WRJ2**
	18 ⅛ in	16 ½ in	16 ½ in	1 3⁄16 in	1.02 sq ft	**5NKL3**	**6WRJ3**
20 ¼ in	14 ⅛ in	18 ½ in	12 ½ in	1 3⁄16 in	0.822 sq ft	**5NKL4**	**6WRJ4**
22 ¼ in	12 ⅛ in	20 ½ in	10 ½ in	1 3⁄16 in	0.759 sq ft	**5NKL5**	**6WRJ5**
	14 ⅛ in	20 ½ in	12 ½ in	1 3⁄16 in	0.914 sq ft	**5NKL6**	**6WRJ6**
	16 ⅛ in	20 ½ in	14 ½ in	1 3⁄16 in	1.12 sq ft	**5NKL7**	**6WRJ7**
	18 ⅛ in	20 ½ in	16 ½ in	1 3⁄16 in	1.27 sq ft	**5NKL8**	**6WRJ8**
	22 ⅛ in	20 ½ in	20 ½ in	1 3⁄16 in	1.58 sq ft	**5NKL9**	**6WRJ9**
26 ¼ in	14 ⅛ in	24 ½ in	12 ½ in	1 3⁄16 in	1.09 sq ft	**5NKN0**	**6WRK0**
	18 ⅛ in	24 ½ in	16 ½ in	1 3⁄16 in	1.53 sq ft	**5NKN1**	**6WRK1**
	20 ⅛ in	24 ½ in	18 ½ in	1 3⁄16 in	1.72 sq ft	**5NKN2**	**6WRK2**
	26 ⅛ in	24 ½ in	24 ½ in	1 3⁄16 in	2.34 sq ft	**5NKN3**	**6WRK3**

5NKK9

Single-Panel, Rear View 3C315

Single-Panel, Front View 3C725

Double-Panel, Front View 3C732



Motorized Dampers

Dayton

- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm
- Motor includes end switch

Stainless steel jamb seals help minimize light, air, and moisture. Feature center-pivoting louvers for a full 90° opening. Flanged frames for flush mounting to exterior or interior surfaces. Prepunched mounting holes. Welded-corner construction and factory-installed motors. Mill-finish extruded aluminum models have 0.125"-thick frames, and 0.08"-thick louvers. G-90 galvanized steel models have 14-ga. frames, 16-ga. louvers.

For Fan Dia.	Volts 50/60 Hz	Overall Square A	Sq. Opening Req.	Frame Less Flange	Free Area	Motor Bracket Extension*	EXTRUDED ALUMINUM DAMPERS Item No.	G-90 GALVANIZED STEEL DAMPERS Item No.
Single Panel, Power Open, Spring Return								
12 in	100 to 240	15 in	13 in	12 sq in	0.835 sq ft	6 ⅞ in	**3HHP4**	**3HHP3**
16 in	100 to 240	19 in	17 in	16 sq in	1.75 sq ft	6 ⅞ in	**4C560**	**3C725**
20 in	100 to 240	23 in	21 in	20 sq in	2.053 sq ft	6 ⅞ in	**4C561**	**3C726**
24 in	100 to 240	27 in	25 in	24 sq in	3.585 sq ft	6 ⅞ in	**3C315**	**3C727**
30 in	100 to 240	33 in	31 in	30 sq in	5.679 sq ft	10 ¼ in	**3C234**	**3C728**
36 in	100 to 240	39 in	37 in	36 sq in	8.252 sq ft	10 ¼ in	**3C131**	**3C729**
42 in	100 to 240	45 in	43 in	42 sq in	11.305 sq ft	10 ¼ in	**3C235**	**3C730**
48 in	100 to 240	51 in	49 in	48 sq in	14.836 sq ft	10 ¼ in	**3C132**	**3C731**
Double Panel, Power Open, Spring Return								
54 in	24 to 240	57 in	55 in	54 sq in	18.827 sq ft	10 ¼ in	**3C188**	**3C732**
60 in	24 to 240	63 in	61 in	60 sq in	23.314 sq ft	10 ¼ in	**3C189**	**3C733**

** From damper frame to end of bracket.*

5NKK1

Motorized Volume-Control Channel-Style Dampers

Dayton

- 100 to 240V
- 50/60 Hz with end switch
- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm

Regulate airflow in medium- and low-pressure commercial applications. TPV louver seals and stainless steel jambs minimize leakage. Channel frames for installations inside walls or ductwork.

Actuator is internally installed. Mill-finish extruded aluminum frame is 5" deep x 0.1" thick and louvers are 0.08" thick. Plated steel linkage and pivot pins.

Overall Square	Sq. Opening Req.	Free Area	Motor Bracket Extension*	Item No.
Single Panel, Power Open, Spring Return				
11 ¾ in	12 in	0.372 sq ft	11 ½ in	**5NKK1**
15 ¾ in	16 in	1.05 sq ft	11 ½ in	**5NKK2**
19 ¾ in	20 in	2.126 sq ft	11 ½ in	**5NKK3**
23 ¾ in	24 in	3.172 sq ft	11 ½ in	**5NKK4**
29 ¾ in	30 in	5.107 sq ft	11 ½ in	**5NKK5**
35 ¾ in	36 in	7.559 sq ft	11 ½ in	**5NKK6**
41 ¾ in	42 in	10.49 sq ft	11 ½ in	**5NKK7**
47 ¾ in	48 in	13.9 sq ft	11 ½ in	**5NKK8**

** From damper frame to end of bracket.*

4HX64

4HX73

2FTW8

Shutter Motor 2FTX6

Backdraft Dampers

Dayton

For belt-drive centrifugal roof and wall ventilators. Max. velocity: 2000 fpm for models up to 19" and no-flange, 2250 fpm for 23" and larger.

WARNING: Not for use with kitchen exhaust applications.

ROOF-MOUNT

G-90 galvanized steel frame, 2" deep with 1" flange. Aluminum louvers, stainless steel pivot pins, nylon bushings, and felted edge. Prepunched conduit hole knockout.

WALL-MOUNT

16-ga. mill-finish extruded aluminum frame, 1½" deep with 1⅜" flange. Mill-finish aluminum louvers have galvanized steel reinforcement strip. Spring close for positive seal.

NO FLANGE, HORIZONTAL/ VERTICAL MOUNT

For use in roof curbs, ductwork, and wall collars when using a fan or power roof ventilator. G-90 galvanized frame is 2" deep. Mill-finish aluminum louvers. Stainless steel pivot pins and rivets, and nylon bushings. Prepunched conduit knockout.

Note: Models over 30" are horizontal-mount only.

OPTIONAL SHUTTER MOTORS

Motor packs expand options where standard 120/240 line voltage is not available. 60 Hz, 1-phase motors simplify installation by eliminating the need for transformers or other adaptations. Not for use with 8" roof curbs.

Damper Size (in.)	Overall Size (in.)	Item No.
Roof-Mount, Exhaust Backdraft Dampers		
9½ x 9½	11½ x 11½	**3TZ50**
12 x 12	14 x 14	**4HX64**
15 x 15	17 x 17	**4HX65**
19 x 19	21 x 21	**4HX66**
23 x 23	25 x 25	**4HX67**
27 x 27	29 x 29	**4HX68**
35 x 35	37 x 37	**4HX69**
39 x 39	41 x 41	**4HX70**
50 x 50	52 x 52	**4HX71**
Wall-Mount, Supply Backdraft Dampers		
8 x 8	10¾ x 10¾	**4HX72**
10 x 10	12¾ x 12¾	**4HX73**
11 x 11	13¾ x 13¾	**4HX33**
12 x 12	14¾ x 14¾	**4HX74**
13 x 13	15¾ x 15¾	**4HX75**
14 x 14	16¾ x 16¾	**4HX76**
15 x 15	17¾ x 17¾	**4HX77**
17 x 17	19¾ x 19¾	**5NKN4**
20 x 20	22¾ x 22¾	**5NKN5**
25 x 25	27¾ x 27¾	**5NKN6**
No Flange, Horizontal or Vertical Mount Backdraft Exhaust Dampers		
7¾ x 7¾	7¾ x 7¾	**3HHL4**
9¾ x 9¾	9¾ x 9¾	**2FTW8**
11¾ x 11¾	11¾ x 11¾	**2FTX4**
13¾ x 13¾	13¾ x 13¾	**2FTX5**
15¾ x 15¾	15¾ x 15¾	**3HHL5**
17¾ x 17¾	17¾ x 17¾	**2FTU9**
19¾ x 19¾	19¾ x 19¾	**3HHL6**
23¾ x 23¾	23¾ x 23¾	**2FTV7**
27¾ x 27¾	27¾ x 27¾	**3HHL7**
29¾ x 29¾	29¾ x 29¾	**3HHL8**
No Flange, Horizontal Mount Backdraft Exhaust Dampers		
33¾ x 33¾	33 ¾ x 33 ¾	**3HHL9**
35¾ x 35¾	35¾ x 35¾	**3HHN1**
39¾ x 39¾	39¾ x 39¾	**3HHN2**
41¾ X 41¾	41¾ X 41¾	**6WRK7**
47¾ x 47¾	47¾ x 47¾	**3HHN3**
49¾ X 49¾	49¾ X 49¾	**6WRK8**
55¾ X 55¾	55¾ X 55¾	**5NKN7**
59¾ X 59¾	59¾ X 59¾	**5NKN8**
61¾ X 61¾	61¾ X 61¾	**6WRK9**
63¾ X 63¾	63¾ X 63¾	**5NKN9**

Voltage	Amps	H (in.)	W (in.)	D (in.)	Item No.
Optional Shutter Motors					
24	1.02	8 ½ (Installed)	4 ½ in	7 ¼ in	**2FTX6**
120/240	0.20/0.14	8 ½ in	4 ½ in	7 ¼ in	**24N066**
208	0.11	8 ½ (Installed)	4 ½ in	7 ¼ in	**2FTV1**
460	0.11	8 ½ (Installed)	4 ½ in	7 ¼ in	**2FTW4**

Fixed-Height Adjustable-Width Intake/Exhaust Louvers

Dayton®

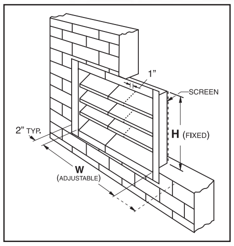
Tabbed louvers lock securely into frame, providing smooth finish and clean appearance. Blades are set at a 45° angle, 4" spacing. Use multiple louvers when larger sizes are needed. 9⁄32" x ½" oblong mounting holes. Each includes 2"x 2" bird screen and fasteners.

4F422

G-90 Galvanized Steel—4"-deep G-90 galvanized steel frame has 2" flanges.

3003 Aluminum—4" deep aluminum frame has 2" flange.

Intake Louver Outside Height	Outside W (in.)	Inside H (in.)	Intake Louver Inside Width	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	G90 GALVANIZED STEEL Item No.	3003 ALUMINUM Item No.
18 in	16 to 22	14 in	12 in to 18 in	14H x 12W	616 cfm	875 cfm	0.360 to 0.550 sq ft	**4F421**	**4F951**
	28 to 46	14 in	24 in to 42 in	14H x 24W	1,565 cfm	2,240 cfm	0.740 to 1.310 sq ft	**2FTV2**	**2FTV4**
22 in	22 to 28	18 in	18 in to 24 in	18H x 18W	1,050 cfm	1,500 cfm	0.730 to 0.980 sq ft	**3C972**	**4F952**
	28 to 46	18 in	24 in to 42 in	18H x 24W	2,010 cfm	2,875 cfm	0.980 to 1.750 sq ft	**2FTV5**	**2FTV9**
28 in	22 to 34	24 in	18 in to 30 in	24H x 18W	1,750 cfm	2,500 cfm	1.140 to 1.950 sq ft	**3C973**	**4F953**
	40 to 52	24 in	36 in to 48 in	24H x 36W	3,030 cfm	4,330 cfm	2.350 to 3.150 sq ft	**2FTY1**	**2FTX2**
34 in	25 to 40	30 in	21 in to 36 in	30H x 21W	2,625 cfm	3,750 cfm	1.620 to 2.830 sq ft	**4F422**	**4F954**
40 in	28 to 40	36 in	24 in to 36 in	36H x 24W	3,150 cfm	4,500 cfm	2.350 to 3.570 sq ft	**3C974**	**4F955**
	40 to 52	36 in	36 in to 48 in	36H x 36W	4,200 cfm	6,000 cfm	3.570 to 4.790 sq ft	**3C975**	**4F956**
46 in	28 to 46	42 in	24 in to 42 in	42H x 24W	4,290 cfm	6,125 cfm	3.160 to 5.610 sq ft	**4F423**	**4F957**
52 in	28 to 40	48 in	24 in to 36 in	48H x 24W	5,200 cfm	6,000 cfm	3.230 to 4.900 sq ft	**3C976**	**4F958**
	40 to 52	48 in	36 in to 48 in	48H x 36W	5,600 cfm	8,000 cfm	4.900 to 6.570 sq ft	**3C977**	**4F959**



Fixed Intake/Exhaust Louvers

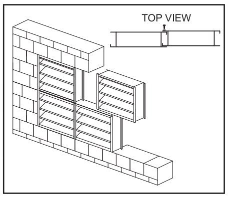
Dayton®

Modular units seamlessly fit together for custom openings. Channel style frame is 4" deep. Blades are positioned at approximately 45° and spaced approximately 4" center to center. Each unit includes preinstalled bird screen.

Galvannealed Steel—Very fine matte finish acts like a primer, easily accepts paint, and provides corrosion resistance.

Aluminum—Strong, lightweight, and corrosion resistant.

4FZG4



Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	GALVANNEALED STEEL Item No.	ALUMINUM Item No.
17 ½ in	17 ½ in	18H x 18W	744 cfm	1,063 cfm	0.622 sq ft	**4FZG3**	**4FZF3**
23 ½ in	23 ½ in	24H x 24W	1,342 cfm	1,918 cfm	1.384 sq ft	**4FZG4**	**4FZF4**
	35 ½ in	24H x 36W	2,028 cfm	2,897 cfm	2.175 sq ft	**4FZG7**	**4FZF7**
29 ½ in	29 ½ in	30H x 30W	2,115 cfm	3,022 cfm	2.234 sq ft	**4FZG6**	**4FZF6**
35 ½ in	23 ½ in	36H x 24W	2,028 cfm	2,897 cfm	2.091 sq ft	**4FZG5**	**4FZF5**
	35 ½ in	36H x 36W	3,063 cfm	4,376 cfm	3.286 sq ft	**4FZG8**	**4FZF8**
	47 ½ in	36H x 48W	4,099 cfm	5,855 cfm	4.481 sq ft	**4FZH1**	**4FZG1**
41 ½ in	41 ½ in	42H x 42W	3,876 cfm	5,543 cfm	5.496 sq ft	**53DR09**	**53DR08**
47 ½ in	35 ½ in	48H x 36W	4,099 cfm	5,855 cfm	4.397 sq ft	**4FZG9**	**4FZF9**
	47 ½ in	48H x 48W	5,484 cfm	7,834 cfm	5.996 sq ft	**4FZH2**	**4FZG2**

Drainable Blade Fixed Louvers

Dayton®

amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION — AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

Protect air intake and exhaust openings in exterior walls. 4" deep channel style frame and 0.090" thick extruded aluminum fixed louver blades channel water away from the blades and down the jambs. Birdscreen included.

Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	Item No.
Drainable without Flange Kit						
11 ½ in	11 ½ in	12H x 12W	144 cfm	188 cfm	0.359 sq ft	**45C669**
17 ½ in	17 ½ in	18H x 18W	744 cfm	1,063 cfm	0.885 sq ft	**5NKJ2**
23 ½ in	23 ½ in	24H x 24W	1,342 cfm	1,918 cfm	1.878 sq ft	**5NKJ3**
	35 ½ in	24H x 36W	2,028 cfm	2,897 cfm	2.951 sq ft	**5NKJ6**
29 ½ in	29 ½ in	30H x 30W	2,115 cfm	3,022 cfm	2.93 sq ft	**5NKJ5**
35 ½ in	23 ½ in	36H x 24W	2,028 cfm	2,897 cfm	2.917 sq ft	**5NKJ4**
	35 ½ in	36H x 36W	3,063 cfm	4,376 cfm	4.583 sq ft	**5NKJ7**
	47 ½ in	36H x 48W	4,099 cfm	5,855 cfm	6.216 sq ft	**5NKJ9**
41 ½ in	41 ½ in	42H x 42W	3,734 cfm	4,875 cfm	6.161 sq ft	**45C678**
47 ½ in	35 ½ in	48H x 36W	4,099 cfm	5,855 cfm	6.25 sq ft	**5NKJ8**
	47 ½ in	48H x 48W	5,484 cfm	7,834 cfm	8.477 sq ft	**5NKK0**
53 ½ in	53 ½ in	54H x 54W	6,511 cfm	8,500 cfm	10.062 sq ft	**45C670**
59 ½ in	59 ½ in	60H x 60W	8,187 cfm	10,688 cfm	12.963 sq ft	**45C671**
Drainable with Flange Kit						
14 ½ in	14 ½ in	12H x 12W	310 cfm	443 cfm	0.359 sq ft	**20UA07**
20 ½ in	20 ½ in	18H x 18W	1,034 cfm	1,478 cfm	0.89 sq ft	**20UA08**
26 ½ in	26 ½ in	24H x 24W	1,809 cfm	2,587 cfm	1.88 sq ft	**20UA09**
	38 ½ in	24H x 36W	2,843 cfm	4,065 cfm	2.95 sq ft	**20UA12**
32 ½ in	32 ½ in	30H x 30W	3,256 cfm	4,656 cfm	2.93 sq ft	**20UA11**
38 ½ in	26 ½ in	36H x 24W	2,894 cfm	4,139 cfm	2.92 sq ft	**20UA10**
	38 ½ in	36H x 36W	4,548 cfm	6,504 cfm	4.58 sq ft	**20UA13**
	50 ½ in	36H x 48W	6,202 cfm	8,869 cfm	6.25 sq ft	**20UA16**
44 ½ in	44 ½ in	42H x 42W	6,719 cfm	9,608 cfm	6.161 sq ft	**20UA15**
50 ½ in	38 ½ in	48H x 36W	6,254 cfm	8,943 cfm	6.22 sq ft	**20UA14**
	50 ½ in	48H x 48W	8,528 cfm	12,195 cfm	8.48 sq ft	**20UA17**
56 ½ in	56 ½ in	54H x 54W	11,422 cfm	16,334 cfm	10.062 sq ft	**20UA18**
62 ½ in	62 ½ in	60H x 60W	13,748 cfm	19,660 cfm	12.963 sq ft	**20UA19**

5NKJ3

Combination Louver Dampers

Dayton®

amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION — AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

Protect air intake and exhaust openings from rain and weather while still providing excellent air flow. Mill-finish extruded aluminum drainable frame is 4" deep, 0.081" thick, and has 45° fixed louvers spaced on 4" centers, with pivoting dampers and TPV seals for weathertight closure. Birdscreen included. Standard manually-operated linkage kit for opening and closing. Find optional motor 5NKP0 and 20XG62 on Grainger.com.

Intake Louver Outside Height	Outside W (in.)	Min. Wall Opening (in.)	Louver Max. Intake	Louver Max. Exhaust	Louver Free Area	Item No.
Drainable without Flange Kit						
11 ½ in	11 ½ in	12H x 12W	131 cfm	206 cfm	0.297 sq ft	**45C672**
17 ½ in	17 ½ in	18H x 18W	438 cfm	625 cfm	0.521 sq ft	**5NKH6**
23 ½ in	23 ½ in	24H x 24W	1,005 cfm	1,444 cfm	1.349 sq ft	**5NKH7**
	35 ½ in	24H x 36W	1,444 cfm	2,269 cfm	2.12 sq ft	**45C680**
29 ½ in	29 ½ in	30H x 30W	1,724 cfm	2,475 cfm	2.203 sq ft	**5NKH8**
35 ½ in	23 ½ in	36H x 24W	1,531 cfm	2,406 cfm	2.33 sq ft	**45C679**
	35 ½ in	36H x 36W	4,244 cfm	6,068 cfm	3.667 sq ft	**5NKH9**
	47 ½ in	36H x 48W	3,281 cfm	5,156 cfm	5.0 sq ft	**45C682**
41 ½ in	41 ½ in	42H x 42W	3,413 cfm	4,875 cfm	5.01 sq ft	**5NKJ0**
47 ½ in	35 ½ in	48H x 36W	3,369 cfm	5,294 cfm	5.214 sq ft	**45C681**
	47 ½ in	48H x 48W	5,027 cfm	7,219 cfm	7.109 sq ft	**5NKJ1**
53 ½ in	53 ½ in	54H x 54W	5,950 cfm	9,350 cfm	8.504 sq ft	**45C673**
59 ½ in	59 ½ in	60H x 60W	7,481 cfm	11,756 cfm	11.165 sq ft	**45C674**
Drainable with Flange Kit						
14 ½ in	14 ½ in	12H x 12W	266 cfm	381 cfm	0.297 sq ft	**20UA20**
20 ½ in	20 ½ in	18H x 18W	779 cfm	1,114 cfm	0.521 sq ft	**20UA21**
26 ½ in	26 ½ in	24H x 24W	1,661 cfm	2,375 cfm	1.349 sq ft	**20UA22**
	35 ½ in	24H x 36W	2,610 cfm	3,733 cfm	2.12 sq ft	**20UA25**
32 ½ in	32 ½ in	30H x 30W	2,738 cfm	3,916 cfm	2.203 sq ft	**20UA24**
38 ½ in	26 ½ in	36H x 24W	2,700 cfm	3,862 cfm	2.33 sq ft	**20UA23**
	38 ½ in	36H x 36W	4,244 cfm	6,068 cfm	3.667 sq ft	**20UA26**
	50 ½ in	36H x 48W	5,787 cfm	8,275 cfm	5.0 sq ft	**20UA29**
44 ½ in	44 ½ in	42H x 42W	5,886 cfm	8,417 cfm	5.01 sq ft	**20UA28**
50 ½ in	38 ½ in	48H x 36W	5,877 cfm	8,404 cfm	5.214 sq ft	**20UA27**
	50 ½ in	48H x 48W	8,014 cfm	11,460 cfm	7.109 sq ft	**20UA30**
56 ½ in	56 ½ in	54H x 54W	10,221 cfm	14,616 cfm	8.504 sq ft	**20UA31**
62 ½ in	62 ½ in	60H x 60W	12,972 cfm	18,550 cfm	11.165 sq ft	**20UA32**

5NKH7

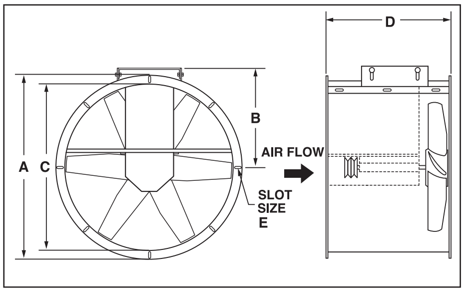
Louver Flange Kits

Dayton®

Provide weather protection by covering small gaps in installations. Presized aluminum extrusion construction with prepunched mounting holes; mounting hardware included.

L	W	Item No.
14 ½ in	14 ½ in	**45C675**
20 ½ in	20 ½ in	**33W754**
26 ½ in	26 ½ in	**33W755**
	38 ½ in	**33W758**
32 ½ in	32 ½ in	**33W757**
38 ½ in	26 ½ in	**33W756**
	38 ½ in	**33W759**
	50 ½ in	**33W762**
44 ½ in	44 ½ in	**33W761**
50 ½ in	38 ½ in	**33W760**
	50 ½ in	**33W763**
56 ½ in	56 ½ in	**45C676**
62 ½ in	62 ½ in	**45C677**

33W754



Belt-Drive Tubeaxial Fans

Dayton

- Mount: vertical or horizontal
- Permanently lubricated ball bearings
- Max. inlet air temp.: 200°F
- Max. ambient: 104°F
- Precision-balanced, spark-resistant aluminum blades
- Belt guards
- AMCA Type B spark-resistant propellers (99-0401-86)
- Optional companion flanges are sold in pairs

Streamlined belt tunnel ventilates the drive compartment with air from outside the fan. Steel housing is iron phosphate-processed for rust protection; baked enamel paint finish. Factory installed cast-iron sheave is assembled on fan shaft. Motors and belts are packed separately when complete fan with drive package is ordered.

Note: These fans cannot be used if the environment surrounding them is not always free of flammable gases, vapors, or liquids; combustible dust; or ignitable fibers or flyings. Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and the National Fire Protection Act (NFPA).

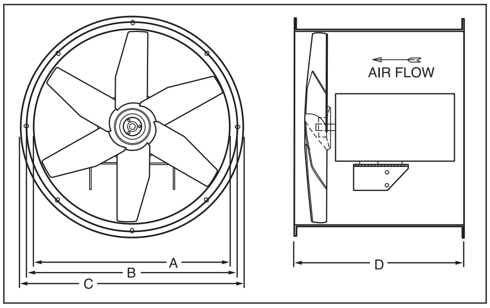
OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel. Review OSHA Codes and UL Standards.

Blade Dia.	Dim. A	Dim. B	C	D	E	Max. Motor H	Shaft Dia.	No. of Blades	REPLACEMENT FAN BLADE Item No.	COMPANION FLANGE Item No.	INLET OR OUTLET GUARD Item No.	DISCHARGE CAP Item No.	CURB CAP Item No.
12 in	14 7/16 in	8 ¾ in	12 ¼ in	12 in	5/16 in	9 in	⅝ in	4	4C662	4C716	3DNX8	—	—
16 in	18 ¾ in	11 ½ in	16 ⅛ in	16 ½ in	5/16 in	9 in	⅞ in	6	4C663	4C717	3DNX9	4YM54	4YM46
18 in	21 ⅛ in	12 ½ in	18 ½ in	16 ½ in	5/16 in	9 in	⅞ in	6	4C715	4C718	3DNY1	4YM55	4YM47
21 in	23 ⅞ in	16 ¾ in	21 ½ in	18 in	7/16 in	10 in	1 in	6	4ETG3	1LWN9	3DNY2	5JKF5	5JKF4
24 in	27 in	16 ¾ in	24 5/16 in	18 in	7/16 in	10 in	1 in	6	4C664	3C436	3DNY3	4YM56	4YM48
30 in	33 ⅝ in	19 ¼ in	30 ½ in	24 in	7/16 in	10 in	1 3/16 in	6	3C418	3C440	3DNY4	4YM57	4YM49
34 in	37 ¾ in	21 ⅜ in	34 ½ in	29 in	7/16 in	10 in	1 3/16 in	6	3C419	3C441	3FHV3	4YM58	4YM50
36 in	39 ¾ in	22 7/16 in	36 ½ in	29 in	7/16 in	10 in	1 3/16 in	6	3C420	3C442	3DNY5	4YM59	4YM51
42 in	45 ¾ in	25 3/16 in	42 ½ in	32 in	9/16 in	12 ½ in	1 7/16 in	6	3C421	3C443	3DNY6	4YM50	4YM52
48 in	51 ¾ in	28 5/16 in	48 ½ in	36 in	9/16 in	12 ½ in	1 7/16 in	6	3C422	3C444	3DNY7	4YM61	4YM53
54 in	57 ¾ in	31 ½ in	54 ⅝ in	39 in	9/16 in	16 ⅛ in	1 7/16 in	6	5JKE8	5JKE6	5JKF6	5JKF2	5JKF0
60 in	64 ¼ in	34 9/16 in	60 ⅝ in	43 ⅜ in	9/16 in	16 ⅞ in	1 11/16 in	6	5JKE9	5JKE7	5JKF7	5JKF3	5JKF1

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.500" SP*	CFM @ 0.750" SP*	CFM @ 1.000" SP*	Sones @ 0.250" SP @ 5 ft.#	Motor HP	Max. BHP†	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed, 1-Phase Motor, 115/230V Item No.	Totally Enclosed, 3-Phase Motor, 230/460V Item No.	Hazardous Location, 1-Phase Motor, 115/230V Item No.	Hazardous Location, 3-Phase Motor, 230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
12 in	1,300	1,170	990	—	—	—	19.7	¼	0.25	1,670	7F921	7AF32	7AF31	—	4C659
	1,767	1,667	1,561	—	—	—	34	⅓	0.24	2,090	7F924	7AF33	7F925	7AF34	
	1,904	1,812	1,719	1,429	—	—	42	½	0.31	2,253	7F927	7AF35	7F928	7AF36	
	2,432	2,360	2,287	2,126	1,905	—	59	¾	0.6	2,877	7F930	7AF37	7F931	7AF38	
16 in	2,379	2,152	1,820	779	—	—	24	⅓	0.25	1,570	7F933	7AF39	7F934	7AF40	4C660
	2,727	2,530	2,288	1,335	711	—	28	½	0.41	1,800	7F936	7AF41	7F937	7AF42	
	3,365	3,205	3,045	2,576	1,685	1,103	34	¾	0.69	2,221	7F939	7AF43	7F940	7AF44	
	3,859	3,720	3,580	3,238	2,744	1,892	46	1	1.0	2,547	7F942	7AF45	7F943	—	
18 in	3,230	2,976	2,680	1,254	—	—	24	⅓	0.34	1,375	7F945	7AF47	7F946	7AF48	4C661
	3,494	3,261	2,997	2,192	794	—	24	½	0.48	1,487	7F948	7AF49	7F949	7AF50	
	4,039	3,841	3,624	3,112	1,850	923	26	¾	0.72	1,719	7F951	7AF51	7F952	7AF52	
	4,671	4,504	4,321	3,914	3,421	2,163	32	1	0.91	1,988	7F954	7AF53	7F955	—	
	5,298	5,152	4,994	4,460	4,270	3,803	38	1 ½	1.29	2,255	7F957	7AF55	7AF56 ##	7F958	
21 in	3,522	3,106	—	—	—	—	18.4	⅓	0.18	989	7AH33 ††	7AF61	7AH38	7AF62	3NXF4
	4,042	3,689	3,266	—	—	—	22	½	0.26	1,135	7AH34	7AF57	7AH39	7AF58	
	4,733	4,438	4,106	3,224	—	—	26	¾	0.45	1,329	7AH35	7AF59	7AH40	7AF60	
	5,407	5,154	4,885	4,218	2,357	—	32	1	0.67	1,518	7AH36	7AF63	7AH41	7AF64	
	6,564	6,357	6,146	5,678	5,092	4,187	45	1 ½	1.2	1,843	7AH37	7AF65	7AH42 ##	7AF66	
24 in	5,730	5,300	4,800	—	—	—	23	½	0.42	1,062	7AF67	7AF69	7AF68	7AF70	3C411
	6,470	6,096	5,678	4,600	—	—	29	¾	0.65	1,199	7AF71	7AF73	7AF72	7AF74	
	7,085	6,742	6,371	5,484	3,164	—	34	1	0.98	1,312	7F960	7AF75	7F961	7AF76	
	7,925	7,626	7,305	6,562	5,634	2,914	39	1 ½	1.38	1,468	7AF77	7F830	7AF78 ##	7F833	
	9,112	8,856	8,573	7,983	7,290	6,445	43	2	1.98	1,688	7AF79	7F831	—	7F834	
	10,310	10,084	9,850	9,332	8,769	8,143	50	3	2.77	1,910	7AF80	7F832	—	7F835	
30 in	8,940	8,257	7,463	—	—	—	24	¾	0.71	841	7AF81	7AF83	7AF82	7AF84	3C412
	9,825	9,211	8,519	6,695	—	—	28	1	0.93	924	7AF85	7AF87	7AF86	7AF88	
	10,955	10,415	9,815	8,359	—	—	31	1 ½	1.4	1,030	7AF89	7F840	7AF90 ##	7F844	
	12,190	11,710	11,180	9,990	8,485	—	41	2	1.9	1,146	7AF91	7F841	—	7F845	
	14,040	13,630	13,180	12,220	11,105	9,740	52	3	2.91	1,320	7AF92	7F842	—	7F846	
	16,495	16,150	15,785	14,995	14,145	13,190	62	5	4.72	1,551	7AF93 ‡	7F843	—	7F847	
34 in	14,430	13,760	13,020	11,285	7,155	—	39	2	1.83	936	7AF94	7F851	—	7F854	3C413
	16,560	15,985	15,350	13,965	12,305	7,750	50	3	2.78	1,074	7AF95	7F852	—	7F855	
	19,290	18,800	18,280	17,150	15,880	14,445	61	5	4.36	1,251	7AF96 ‡	7F853	—	7F856	
36 in	12,520	11,511	10,323	—	—	—	27	1	0.96	687	7AF97	7AF99	7AF98	7AG00	3C414
	14,285	13,420	12,456	9,930	—	—	32	1 ½	1.4	784	7AG01	7AG03	7AG02 ##	7AG04	
	15,255	14,455	13,570	11,430	—	—	33	2	1.82	837	7AG05	7F860	—	7F863	
	17,570	16,890	16,135	14,450	12,345	—	47	3	2.79	964	7AG06	7F861	—	7F864	
	20,650	20,080	19,460	18,135	16,605	14,825	60	5	4.53	1,133	7AG07 ‡	7F862	—	7F865	
42 in	17,460	16,144	14,600	—	—	—	35	1 ½	1.4	607	7AG08	7AG10	7AG09 ##	7AG11	3C415
	19,275	18,095	16,770	13,300	—	—	36	2	1.87	670	7AG12	7AG13	—	7AG14	
	21,465	20,430	19,275	16,565	—	—	38	3	2.76	746	7AG15	7F870	—	7F874	
	25,320	24,460	23,505	21,435	18,965	—	50	5	4.53	880	7AG16 ‡	7F871	—	7F875	
	29,150	28,410	27,610	25,900	23,960	21,775	66	7 ½	6.88	1,013	7AG17 ‡	7F872	—	7F876	
	33,005	32,355	31,670	30,185	28,620	26,850	82	10	9.98	1,147	—	7F873	—	7F877	
48 in	31,260	30,070	28,745	25,810	22,170	—	64	5	5.0	731	7AG18 ‡	7F881	—	7F884	3C416
	35,365	34,325	33,185	30,750	27,900	24,390	88	7 ½	7.25	827	7AG19 ‡	7F882	—	7F885	
	38,100	37,140	36,105	33,885	31,380	28,550	112	10	9.04	891	—	7F883	—	7F886	
54 in	34,793	33,166	31,540	27,453	—	—	32	5	4.661	590	—	7AU03	—	7AU04	5JKE4
	39,805	38,383	36,962	33,708	29,537	—	42	7 ½	7.153	675	—	7AU05	—	7AU06	
	43,815	42,523	41,232	38,431	35,295	30,641	48	10	9.745	743	—	7AU07	—	7AV00	
60 in	40,079	37,913	35,632	29,609	—	—	37	5	4.79	493	—	7AU08	—	7AU09	5JKE5
	45,933	44,043	42,153	37,684	30,620	—	48	7 ½	7.405	565	—	7AU10	—	7AU11	
	50,567	48,850	47,133	43,254	38,441	—	60	10	9.449	622	—	7AU12	—	7AV01	

** Performance shown is for installation Type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. †† 115V only. ‡ 230V only. ## 208/230V only.*

Direct-Drive Tubeaxial Fans



4TM82

- Totally enclosed ball bearing motors
- Max. inlet/ambient air temp.: 104°F
- Precision-balanced aluminum propellers
- 1DGZ9 2-speed control is required for 2-speed models (except 4TM84); see Grainger.com

Designed to efficiently move air in medium-length ductwork. Motor, blades, and housing are shipped assembled and operate in any position. Steel housing is coated with baked enamel finish. 115V, except 4TM84 is 230V, and 4TM85 and 2XZH2 are 200-230/460V, 3-phase. Tubeaxial fan discharge caps and curb caps sold separately on Grainger.com.

WARNING: Not for hazardous location applications.

Blade Dia.	Dim. A	Dim. B	C	D	RECOMMENDED ACCESSORIES: Companion Flange Item No.	RECOMMENDED ACCESSORIES: Inlet/ Outlet Guard Item No.
12 in	12 ¼ in	13 7⁄16 in	14 19⁄32 in	14 in	**4C716**	**3DNX8**
16 in	16 ⅛ in	17 ½ in	18 ½ in	14 in	**4C717**	**3DNX9**
18 in	18 ½ in	19 ⅞ in	21 in	16 in	**4C718**	**3DNY1**
18 in	18 ½ in	19 ⅞ in	21 in	16 in	**4C718**	**3DNY1**
21 in	21 5⁄16 in	22 19⁄32 in	23 ⅞ in	16 in	**1LWN9**	**3DNY2**
24 in	24 ½ in	25 13⁄16 in	26 ⅞ in	18 in	**3C436**	**3DNY3**
30 in	30 19⁄32 in	32 5⁄16 in	33 19⁄32 in	21 in	**3C440**	**3DNY4**

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.375" SP*	CFM @ 0.500" SP*	Sones @ 0.250" SP @ 5 ft.#	Full Load Amps	Motor HP	Max. BHP	Motor RPM	Item No.
2- Speed, 1-Phase											
12 in	1627/1079	1465	1182	—	—	17.1/9.9	4/2	¼	0.14/0.04	1750/1160	**4TM80**
16 in	2763/1832	2595/1530	2388	—	—	22/14.9	5.5/3.6	⅓	0.36/0.10	1750/1160	**4TM81**
18 in	3938/2610	3724/2299	3521/1807	3323	3,058	25/20	6.7/4.6	½	0.52/0.14	1750/1160	**4TM82**
18 in	4670/3095	4436/2738	4198/2266	3947	3,653	30/22	11.4/6.7	¾	0.80/0.21	1750/1160	**4TM83**
21 in	6193/4105	5970/3760	5738/3341	5489/2167	5,211	26/15.2	5/3	1	1.10/0.33	1750/1160	**4TM84**
1- Speed, 3-Phase											
24 in	8555	8105	7613	6998	—	20	4.1/4.2/2.1	1	1.02	1160	**4TM85**
30 in	14792	14208	13624	13036	12,419	29	10/9.4/4.7	3	3.06	1160	**2XZH2**

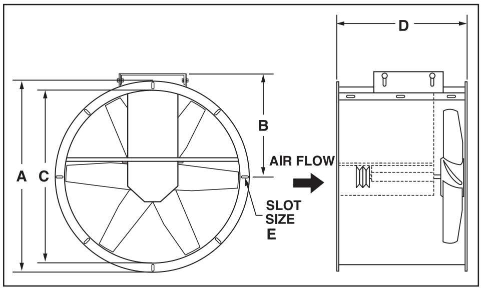
** Performance shown is for installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels.*

Belt-Drive Stainless Steel Tubeaxial Fans

4GXU5

- Mount: vertical or horizontal
- Permanently lubricated ball bearings
- Max. inlet air temp.: 200°F
- Max. ambient air temp.: 104°F
- Precision-balanced, corrosion-resistant stainless steel blades
- Belt guards
- Optional companion flanges are sold in pairs

Designed for food processing applications. Streamlined belt tunnel ventilates the drive compartment with air from outside the fan. Factory installed cast-iron sheave is assembled on fan shaft. Motors and belts are packed separately when complete fan with drive package is ordered. Tubeaxial fan discharge caps and curb caps sold separately on Grainger.com.



Note: These fans cannot be used if the environment surrounding them is not always free of flammable gases, vapors, or liquids; combustible dust; or ignitable fibers or flyings. Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and the National Fire Protection Act (NFPA).

OSHA complying guards are required when fan is installed within 8 ft. of floor or working level, or within reach of personnel. Review OSHA Codes and UL Standards.

Blade Dia.	Dim. A	Dim. B	C	D	E	Max. Motor H	Shaft Dia.	No. of Blades	14 GA 304 STAINLESS STEEL TUBEAXIAL COMPANION FLANGES Item No.
24 in	27 in	16 ¾ in	24 5⁄16 in	18 in	7⁄16 in	10 in	1 in	6	**4ETF9**
30 in	33 ⅝ in	19 ¼ in	30 ½ in	24 in	7⁄16 in	10 in	1 3⁄16 in	6	**4ETG1**
48 in	51 ¾ in	28 5⁄16 in	48 ½ in	36 in	9⁄16 in	12 ½ in	1 7⁄16 in	5	**4ETG2**

Blade Dia.	CFM @ 0.000" SP*	CFM @ 0.125" SP*	CFM @ 0.250" SP*	CFM @ 0.500" SP*	CFM @ 0.750" SP*	Sones @ 0.250" SP @ 5 ft.#	Motor HP	Max. BHP†	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed, 1-Phase Motor, 115/230V Item No.	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed, 3-Phase Motor, 230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
24 in	5,730	5,300	4,800	—	—	23	½	0.422	1,062	**7AG32**	**7AG33**	**4GXU5**
	6,470	6,096	5,678	4,600	—	29	¾	0.65	1,199	**7AG36**	**7AG38**	
	7,085	6,742	6,371	5,484	3,164	34	1	0.98	1,312	**7AG40**	**7AG42**	
	7,925	7,626	7,305	6,562	5,634	39	1 ½	1.38	1,468	**7AG46**	**7AG44**	
	9,112	8,856	8,573	7,983	7,290	43	2	1.98	1,688	**7AG49**	**7AG48**	
	10,310	10,084	9,850	9,332	8,769	50	3	2.77	1,910	**7AG52**	**7AG51**	
30 in	8,940	8,257	7,463	—	—	24	¾	0.718	841	**7AG54**	**7AG56**	**4GXU6**
	9,825	9,211	8,519	6,695	—	28	1	0.939	924	**7AG58**	**7AG60**	
	10,955	10,415	9,815	8,359	—	31	1 ½	1.4	1,030	**7AG64**	**7AG62**	
	12,190	11,710	11,180	9,990	8,485	41	2	1.9	1,146	**7AG65**	**7AG67**	
	14,040	13,630	13,180	12,220	11,105	52	3	2.91	1,320	**7AG70**	**7AG69**	
	16,495	16,150	15,785	14,995	14,145	62	5	4.72	1,551	**7AG71**	**7AG73**	
48 in	31,260	30,070	28,745	25,810	22,170	64	5	5.0	731	**7AG76** ‡	**7AG75**	**4GXU7**
	35,365	34,325	33,185	30,750	27,900	88	7 ½	7.25	827	**7AG79** ‡	**7AG78**	
	38,100	37,140	36,105	33,885	31,380	112	10	9.04	891	—	**7AG81**	

** Performance shown is for installation Type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ 230V only.*

BROAN Panasonic

22CV87

4C374

Standard Bathroom Exhaust Fans

- 120V AC

These fans connect to ductwork to pull stagnant air, odors, and help freshen air in bathrooms. They also remove some moist air to help prevent mirrors and windows from fogging and to help reduce mold and mildew growth.

Max. Exhaust Airflow @ 0.100 in SP	Max. Noise Level	Sensor Type	No. of Speeds	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Ceiling Mount, Round Duct Shape									
50 cfm	0.5 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	AE50	**45KA68**
78 cfm	1.2 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	AE80B	**45KA70**
80 cfm	2 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A80	**45KA77**
80 cfm	0.3 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	XB80	**22CV87**
80 cfm	0.3 sones	Occupancy	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB80M	**22CV97**
80 cfm	0.7 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	AE80K	**60NT51**
80 cfm	0.3 sones	None	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB80	**22CV91**
80 cfm	0.3 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	QTXE080	**4LA32**
110 cfm	3 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A110	**45KA74**
110 cfm	0.8 sones	Occupancy	1	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VK2	**490X05**
110 cfm	0.8 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	RB110	**35ZU32**
110 cfm	0.9 sones	None	1	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VQ1	**448F55**
110 cfm	0.8 sones	Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VKS2	**490X07**
110 cfm	1 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	AE110	**45KA75**
110 cfm	0.7 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	QTXE110	**4LA34**
110 cfm	0.9 sones	Humidity, Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VQC1	**448F59**
110 cfm	0.3 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	XB110	**22CV88**
110 cfm	0.3 sones	None	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB110	**22CV92**
110 cfm	1 sones	None	1	5 ¾ in	10 in	9 ¼ in	Broan	AE110K	**60NT47**
150 cfm	0.7 sones	None	1	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-1115VQ1	**448F56**
150 cfm	0.7 sones	Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-1115VK2	**490X06**
150 cfm	1.4 sones	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	QTXE150	**4LA36**
190 cfm	1.4 sones	None	1	9 ¼ in	12 ¼ in	12 ¼ in	Panasonic	FV-20VQ3	**20JP86**
290 cfm	2 sones	None	1	9 ¼ in	12 ¼ in	12 ¼ in	Panasonic	FV-30VQ3	**20JP87**
390 cfm	3 sones	None	1	9 ¼ in	14 ¾ in	14 ¾ in	Panasonic	FV-40VQ4	**20JP88**
Ceiling & Wall Mount, Round Duct Shape									
50 cfm	4 sones	None	1	3 ⅝ in	7 ¼ in	7 ½ in	Broan	688	**4C374**
70 cfm	6 sones	None	Variable	3 ⅝ in	7 ½ in	7 ½ in	Broan	671	**4C376**
Ceiling & Wall Mount, Oval Duct Shape									
100 cfm	1.3 sones	None	3	3 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0510VS1	**53VF73**
110 cfm	1.5 sones	None	1	4 in	11 ⅜ in	10 ½ in	Broan	LP110	**55VG01**
Ceiling & Wall Mount, Oval, Round Duct Shape									
92 cfm	1 sones	None	1	4 in	11 ⅜ in	10 ½ in	Broan	LP80	**22CW04**

5AFH5

429J49

BROAN Panasonic

Bathroom Exhaust Fans with Light

- 120V AC

Feature a light to help brighten dim bathroom areas. Fans connect to ductwork to pull stagnant air, odors, and help freshen air in bathrooms. They also remove moist air to help prevent mirrors and windows from fogging and to reduce mold and mildew growth.

Max. Exhaust Airflow @ 0.100 in SP	Max. Noise Level @ 0.100 in SP @ 5 ft	Primary Lighting Technology	Primary Light Wattage	Sensor Type	No. of Speeds	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Ceiling Mount, Round Duct Shape											
50 cfm	2 sones	Incandescent	100 W	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A50L	**45KA78**
50 cfm	2.5 sones	Incandescent	100 W	None	1	5 ¾ in	8 in	8 ¼ in	Broan	678	**4C378**
70 cfm	1.5 sones	LED	9 W	None	1	6 ⅞ in	8 ¼ in	8 ¼ in	Broan	744LED	**20JP19**
70 cfm	2 sones	Incandescent	100 W	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A70L	**45KA73**
70 cfm	2 sones	Incandescent	75 W	None	1	6 ⅞ in	8 ¼ in	12 ¾ in	Broan	744	**4LA31**
80 cfm	0.3 sones	LED	18 W	None	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB80L1	**22CV93**
80 cfm	0.3 sones	LED	18 W	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	QTXE080FLT	**4LA33**
80 cfm	0.3 sones	LED	18 W	Occupancy	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB80ML1	**22CW01**
80 cfm	1 sones	Incandescent	100 W	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A80L	**45KA72**
80 cfm	1 sones	LED	8 W	None	1	7 ½ in	8 ¼ in	12 ¾ in	Panasonic	FV-08VRE2	**53VF72**
80 cfm	1.2 sones	LED	11 W	None	1	5 ¾ in	11 ¾ in	12 ½ in	Broan	AE80BL	**513A48**
80 cfm	2 sones	LED	75 W	None	2	6 ⅞ in	8 ¼ in	12 ¾ in	Broan	744L	**60NT46**
80 cfm	2.5 sones	Incandescent	60 W	None	1	5 ¾ in	8 in	8 ¼ in	Broan	770RLTK	**60NT50**
80 cfm	2.5 sones	LED	50 W	None	1	5 ¾ in	8 in	8 ¼ in	Broan	SPK80L	**56JD61**
87 cfm	4.1 sones	Incandescent	100 W	None	Variable	5 ¾ in	8 ¼ in	8 in	Broan	HD80L	**5E834**
100 cfm	3.5 sones	Incandescent	100 W	Humidity	1	6 in	9 in	9 in	Broan	750	**5AFH5**
100 cfm	5 sones	Incandescent	100 W	None	1	5 ¾ in	8 ¼ in	16 ¾ in	Broan	696	**39W533**
110 cfm	0.3 sones	LED	18 W	Humidity	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB110HL1	**22CW02**
110 cfm	0.3 sones	LED	18 W	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	XB110L1	**22CV90**
110 cfm	0.3 sones	LED	18 W	Occupancy	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB110ML1	**22CW03**
110 cfm	0.3 sones	LED	18 W	None	Variable	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	ZB110L1	**22CV94**
110 cfm	0.4 sones	LED	10 W	None	1	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VQL1	**448F57**
110 cfm	0.4 sones	LED	10 W	Humidity, Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VQCL1	**448F60**
110 cfm	0.4 sones	LED	10 W	Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VKL2	**490X08**
110 cfm	0.7 sones	LED	18 W	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	QTXE110FLT	**4LA35**
110 cfm	0.8 sones	LED	18 W	None	1	7 ⅝ in	11 ⅜ in	10 ½ in	Broan	RB110L1	**35ZU34**
110 cfm	1 sones	LED	10 W	None	3	5 ½ in	10 ¼ in	10 ¼ in	Panasonic	FV-0511VFL1	**784JH0**
110 cfm	1 sones	LED	11 W	Humidity	1	5 ¾ in	10 in	9 ¼ in	Broan	AE110SL	**53UL08**
110 cfm	1.3 sones	Incandescent	100 W	None	1	5 ¾ in	10 in	9 ¼ in	Broan	A110L	**45KA71**
110 cfm	1.5 sones	LED	12 W	None	1	5 ¾ in	10 in	9 ¼ in	Broan	791LEDM	**45JT69**
150 cfm	0.4 sones	LED	10 W	Occupancy	3	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-1115VKL2	**490X09**
150 cfm	0.5 sones	LED	10 W	None	1	7 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-1115VQL1	**448F58**
Ceiling & Wall Mount, Oval Duct Shape											
110 cfm	0.9 sones	LED	10 W	None	3	3 ⅜ in	10 ¼ in	10 ¼ in	Panasonic	FV-0510VSL1	**429J49**

BROAN Panasonic

Bathroom Exhaust Fans with Heater

- 120V

Feature a built-in heater that warms the air that passes through the fans to make chilly bathrooms more comfortable. They can help dry out bathrooms faster than fans without a heater. Fans connect to ductwork to pull stagnant air, odors, and some moisture out of bathrooms to help prevent mirrors and windows from fogging and to reduce mold and mildew growth.

4C538

60TZ76

Exhaust Airflow @ 0.100 in SP	Max. Noise Level @0.100 in SP @ 5ft	Heater Type	Heater Wattage	Primary Lighting Technology	Primary Light Wattage	No. of Speeds	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Ceiling Mount, Round Duct Shape												
70 cfm	4 sones	Infrared Lamp	250 W	—	—	1	6 ⅜ in	8 ⅜ in	8 ⅛ in	Broan	162	**4C538**
70 cfm	4 sones		500 W	—	—	1	6 ⅜ in	8 ⅜ in	14 ¼ in	Broan	164	**4C540**
80 cfm	1.5 sones	Infrared/Radiant Heat Lamp	1,300 W	LED	11.5 W	1	8 in	16 ¼ in	9 ¾ in	Broan	BHFLED80H	**793KX5**
80 cfm	1.5 sones		1,300 W	LED	11.5 W	1	8 in	16 ¼ in	9 ¾ in	Broan	BHFLED80F	**793KX6**
80 cfm	1.5 sones		1,300 W	LED	11.5 W	1	8 in	16 ¼ in	9 ¾ in	Broan	BHFLED80	**793KX7**
110 cfm	1.5 sones	Heating Coil	1,600 W	—	—	3	7 ½ in	16 in	10 ¼ in	Panasonic	FV-0511VH1	**60TZ75**
110 cfm	1.5 sones		1,600 W	LED	10 W	3	7 ½ in	16 in	10 ¼ in	Panasonic	FV-0511VHL1	**60TZ76**
110 cfm	0.9 sones		1,500 W	Incandescent	60 W	1	7 ⅝ in	11 ⅜ in	17 ⅝ in	Broan	QTX110HL	**4LA42**
113 cfm	2 sones	Infrared/Radiant Heat Lamp	1,500 W	LED	11.5 W	1	8 ⅛ in	17 ¾ in	11 ¾ in	Broan	BHFLED110	**793KX8**

BROAN

UV-Disinfecting Bathroom Exhaust Fan with Light

- 120V

Provide UV lighting to kill bacteria and standard LED lighting to illuminate the space. The UV light source turns on when the bathroom is unoccupied to reduce viruses, mold, and bacteria on surfaces. The LED light provides task lighting when the bathroom is occupied. Fans connect to ductwork to pull stagnant air, odors, and some moisture out of bathrooms.

Max. Exhaust Airflow @ 0.100 in SP	Max. Noise Level @ 0.100 in SP @ 5 ft	Primary Lighting Technology	Primary Light Wattage	Sensor Type	No. of Speeds	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ceiling Mount, Round Duct Shape										
110 cfm	1 sones	LED	11 W	None	1	5 ¾ in	10 in	9 ¼ in	AR110LKVV	**56EC08**

BROAN

Ductless Bathroom Fan

- 120V

Has a charcoal filter that neutralizes nuisance odors in the air that passes through the fan. Model recirculates the filtered air to freshen the air in the bathroom and does not connect to ductwork.

No. of Speeds	Overall Height	Overall Width	Overall Depth	Includes	Mfr. Model	Item No.
Ceiling Mount						
Variable	3 ¾ in	7 ⅛ in	7 ⅛ in	Charcoal Filter	682	**1UCF2**

BROAN Dayton

Upgrade Kits for Bathroom Exhaust Fans

These kits include parts for upgrading compatible bathroom exhaust fans to improve their appearance or performance.

61HL74

61HL77

793K37

Description	Dimensions	Includes	Brand	Mfr. Model	Item No.
Grill and Motor Upgrade Kit	10 in x 10 ¼ in x 1 ½ in	Single Pack, Galvanized Steel Motor Plate	Broan	QK60S	**60KZ94**
Grill and Motor Upgrade Kit	10 in x 10 ¼ in x 1 ½ in	Four Pack, Galvanized Steel Motor Plate	Broan	QK60	**61HL74**
LED Grille Upgrade Kit	9 ¾ in	(2) Sets of Grille Springs	Broan	FG600	**61HL77**
LED Grille Upgrade Kit with Speaker	9 ¾ in	(2) Sets of Grille Springs	Broan	FG800SPKS	**56JD62**
Replacement Grille Kit	13 ¼ in x 13⁄16 in	(1) Grille and Hardware to Mount Replacement Grille, (2) Screws with Screw Covers	Dayton	484728	**793K37**
Replacement Grille Kit	13 ¼ in	Hardware Kit	Dayton	34G192	**34G192**

BROAN

Controls for Bathroom Exhaust Fans

- 120V

Wall-mount controls connect to compatible bathroom exhaust fans to allow users to control the fans' operation.

60NT44

Description	Control Range	Color	Switch Type	Mfr. Model	Item No.
Speed Control	—	White	Rotary Dial	SC100W	**60NT44**
Dehumidistat	20 to 80% RH	White	Rotary Dial	DD500W	**60NT45**
Exhaust Fan Timer	20 to 60 min Timer	White	Push Button	CD60W	**61HL79**
Delay Timer	5 to 60 Minutes	White	Rocker	DT100W	**785WR4**

4C701

4TR42

Ceiling-Mount Ventilation Fans

These fans mount to a ceiling and connect to ductwork to ventilate indoor spaces. They help maintain indoor air quality by pulling in fresh air and exhausting out stale air to reduce airborne contaminants. Fans may also help regulate the indoor air temperature since they circulate the air.

Standard Residential Ceiling Exhaust Fans—Compact axial fans are suitable for ventilating recreation rooms and other residential areas that do not require continuous fan operation.

Standard Commercial Ceiling Exhaust Fans—These centrifugal ceiling exhaust fans provide quiet operation making them suitable for conference rooms and other occupied spaces in buildings that require continuous ventilation.

Commercial Convertible Ceiling Inline Cabinet and Exhaust Fan—Unit is ready to be installed as a ceiling ventilation fan with a right-angle discharge, but can be converted to a cabinet fan with an inline discharge. Fan provides quiet operation making it suitable for conference rooms and other occupied spaces in buildings that require continuous ventilation.

Maximum Airflow	Max. Noise Level (Sones)	Discharge Direction	Duct Shape	Duct Dia.	Duct Height	Duct Width	Overall HxWxD	Grille Material	Includes	Brand	Item No.
Standard Residential Ceiling Exhaust Fans, 1 Speed, 120V AC											
160 cfm	5	Horizontal	Rectangular	—	3 ¼ in	10 in	3 ¼ in x 11 ½ in x 11 ½ in	Plastic	Built In Back Draft Damper	Broan	**4C699**
180 cfm	8.5	Vertical	Round	8 in	—	—	8 in x 11 ½ in x 11 ½ in	Polymeric	Backdraft Damper	Broan	**4C701**
300 cfm	9	Horizontal	Rectangular	—	3 ¼ in	10 in	3 ¼ in x 13 ½ in x 13 ½ in	Polymeric	Built In Back Draft Damper	Broan	**4C698**
330 cfm	8	Vertical	Round	10 in	—	—	7 in x 13 ½ in x 13 ½ in	Polymeric	—	Broan	**4C700**
Standard Commercial Ceiling Exhaust Fans, 1 Speed, 115V AC											
412 cfm	5.5	Horizontal & Vertical	Rectangular	—	8 in	8 in	11 ¼ in x 11 ⅞ in x 14 in	Polystyrene	Acoustic Insulation, Grille, Mounting Brackets, Aluminum Backdraft Damper	Dayton	**60RG43**
443 cfm	3.5	Horizontal & Vertical	Rectangular	—	8 in	8 in	14 ½ in x 14 ⅜ in x 18 in	Polystyrene	Backdraft Damper, Mounting Brackets	Dayton	**6WZN1**
557 cfm	5	Horizontal & Vertical	Rectangular	—	8 in	8 in	14 ½ in x 14 ⅜ in x 18 in	Polystyrene	Backdraft Damper, Mounting Brackets	Dayton	**5AE75**
752 cfm	6	Horizontal & Vertical	Rectangular	—	8 in	10 in	14 ½ in x 14 ⅜ in x 18 in	Polystyrene	Backdraft Damper, Mounting Brackets	Dayton	**6WZN2**
812 cfm	8.4	Horizontal & Vertical	Rectangular	—	8 in	10 in	14 ½ in x 14 ⅜ in x 18 in	Polystyrene	Backdraft Damper, Mounting Brackets	Dayton	**5AE77**
955 cfm	5	Horizontal & Vertical	Rectangular	—	—	—	14 ½ in x 14 ⅜ in x 23 ¾ in	Metal	Acoustic Insulation, Grille, Mounting Brackets, Aluminum Backdraft Damper	Dayton	**60RG45**
1,125 cfm	6	Horizontal & Vertical	Rectangular	—	—	—	14 ½ in x 14 ⅜ in x 23 ¾ in	Metal	Acoustic Insulation, Grille, Mounting Brackets, Aluminum Backdraft Damper	Dayton	**60RG46**
1,455 cfm	9.7	Horizontal & Vertical	Rectangular	—	8 in	18 ¾ in	14 ½ in x 14 ⅜ in x 23 ¾ in	Polystyrene	Backdraft Damper, Mounting Brackets	Dayton	**5AE80**
Standard Commercial Ceiling Exhaust Fans, Variable Speed, 120V AC											
136 cfm	0.9	Horizontal & Vertical	Round	6 in	—	—	11 ¾ in x 12 ¼ in x 12 ¼ in	Polymeric	Automatic Backdraft Damper	Broan	**4TR42**
181 cfm	1.5	Horizontal & Vertical	Round	6 in	—	—	11 ¾ in x 12 ¼ in x 12 ¼ in	Polymeric	Automatic Backdraft Damper	Broan	**4TR44**
231 cfm	1.7	Horizontal & Vertical	Round	8 in	—	—	11 ¾ in x 12 ¼ in x 12 ¼ in	Polymeric	Automatic Backdraft Damper	Broan	**4TR48**
272 cfm	2.2	Horizontal & Vertical	Round	8 in	—	—	11 ¾ in x 12 ¼ in x 12 ¼ in	Polymeric	Automatic Backdraft Damper	Broan	**4TR51**
312 cfm	2.9	Horizontal & Vertical	Round	8 in	—	—	11 ¾ in x 12 ¼ in x 12 ¼ in	Polymeric	Automatic Backdraft Damper	Broan	**4TR53**
480 cfm	2.3	Horizontal & Vertical	Rectangular	—	4 ½ in	18 ½ in	11 ¾ in x 21 ½ in x 12 ¼ in	Metal	Automatic Backdraft Damper	Broan	**4TR56**
538 cfm	3.3	Horizontal & Vertical	Rectangular	—	4 ½ in	18 ½ in	11 ¾ in x 21 ½ in x 12 ¼ in	Metal	Automatic Backdraft Damper	Broan	**4TR58**
722 cfm	4.7	Horizontal & Vertical	Rectangular	—	4 ½ in	18 ½ in	11 ¾ in x 21 ½ in x 12 ¼ in	Metal	Automatic Backdraft Damper	Broan	**4TR60**
918 cfm	4.1	Horizontal & Vertical	Rectangular	—	8 in	12 in	18 in x 22 in x 18 in	Metal	Automatic Backdraft Damper	Broan	**4TR62**
1,578 cfm	8.4	Horizontal & Vertical	Rectangular	—	8 in	12 in	18 in x 22 in x 18 in	Metal	Automatic Backdraft Damper	Broan	**4TR45**
Commercial Convertible Ceiling Inline Cabinet & Exhaust Fans, Variable Speed, 120V AC											
1,891 cfm	9.4	Horizontal	Rectangular	—	—	—	14 ⅝ in x 38 in x 14 ⅝ in	Metal	Mounting Brackets	Broan	**4TR49**

2HYC2

1AAD3

Ceiling-Mount Ventilation Fan Accessories

Adjustable speed control and motors are direct replacements for select Broan ceiling-mount ventilation fans.

Description	Mfr. Model	Item No.
Internal Unit-Mount, 3 Amp Adjustable Speed Control, Galvanized, For Use With Insulated and In-Line LoSone Ventilators	80L	**2HYC2**
Replacement Motor For Use with Mfr. No. L500, L500L, and L500K	S99080487	**1AAD3**
Replacement Motor For Use with Nos. Mfr. No. L200 and L200L	99080483	**1AAD4**
Replacement Motor L300 For Use with Mfr. No. L300KMG	99080485	**1AAD1**
Replacement Motor, For Use with Mfr. No. 502, 504MG, 506, 508, 504MG, 506MG	99080596	**1AAC7**

20JR09

Round Duct Inline Cabinet Fans

Feature a sturdy steel housing and provide continuous ventilation in office buildings, public restrooms, and similar spaces. These single-wide fans connect to ductwork, have one blower wheel, and are powered by a single centrifugal motor.

CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Watts	Voltage	No. of Speeds	Housing Length	Housing Width	Duct Dia.	Brand	Mfr. Model	Item No.
100	1.5	80 W	115V AC	1	13 ⅞ in	11 ½ in	6 in	Dayton	6WZN3	**6WZN3**
108	0.7	87 W	120V AC	Variable	12 ¼ in	12 ¼ in	6 in	Broan	L100L	**4TR43**
120	—	36 W	120V AC	3	7 ⅞ in	13 ⅜ in	4 in	Panasonic	FV-10NLF1E	**20JR09**
148	1.0	100 W	120V AC	Variable	12 ¼ in	12 ¼ in	6 in	Broan	L150L	**4TR47**
150	2.0	129 W	115V AC	1	13 ⅞ in	11 ½ in	6 in	Dayton	6WZN4	**6WZN4**
194	0.5 y	27 W	115V AC	1	13 ⅞ in	11 ½ in	6 in	Dayton	60KU35	**60KU35**
240	—	57 W	120V AC	1	9 ⁷⁄₁₆ in	13 ⅜ in	6 in	Panasonic	FV-20NLF1	**20JR10**
340	—	98 W	120V AC	1	11 in	15 ¹¹⁄₃₂ in	6 in	Panasonic	FV-30NLF1	**20JR11**
440	—	132 W	120V AC	1	11 in	16 ½ in	8 in	Panasonic	FV-40NLF1	**20JR12**

Rectangular Duct Inline Cabinet Fans

Feature a sturdy housing and provide continuous ventilation in office buildings, public restrooms, and similar spaces. Fans connect to ductwork and are powered by a single centrifugal motor. Single-wide models have one blower wheel, while double-wide models have two blower wheels that provide a higher airflow than single-wide models.

3DPE7

CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Watts	No. of Speeds	Voltage	Housing Length	Housing Width	Inlet Height	Inlet Width	Brand	Mfr. Model	Item No.
Single-Wide											
112	0.8	20 W	1	115V AC	13 ¼ in	10 ⅝ in	6 in	12 in	Dayton	3DPE7	**3DPE7**
196	1.9	127 W	Variable	120V AC	12 ¼ in	12 ¼ in	—	—	Broan	L200L	**4TR50**
202	1.5	55 W	1	115V AC	13 ¼ in	10 ⅝ in	9 ¼ in	12 in	Dayton	3DPE8	**3DPE8**
231	0.4	58 W	1	115V AC	14 in	11 ⅞ in	10 in	12 ⅞ in	Dayton	6WZN6	**6WZN6**
245	2.3	166 W	Variable	120V AC	12 ¼ in	12 ¼ in	—	—	Broan	L250L	**4TR52**
246	1.0	67 W	1	115V AC	14 in	11 ⅞ in	10 in	12 ⅞ in	Dayton	3DPE9	**3DPE9**
294	3.0	212 W	Variable	120V AC	12 ¼ in	12 ¼ in	—	—	Broan	L300L	**4TR54**
299	1.2	80 W	1	115V AC	14 in	11 ⅞ in	10 in	12 ⅞ in	Dayton	3DPF1	**3DPF1**
400	2.0	144 W	1	115V AC	14 in	11 ⅞ in	10 in	12 ⅞ in	Dayton	3DPF2	**3DPF2**
441	1.5	135 W	1	115V AC	18 in	14 ⅜ in	13 ¼ in	16 ⅞ in	Dayton	6WZN7	**6WZN7**
514	2.1	217 W	1	115V AC	18 in	14 ⅜ in	13 ¼ in	16 ⅞ in	Dayton	3DPF3	**3DPF3**
698	2.5	325 W	1	115V AC	18 in	14 ⅜ in	13 ¼ in	16 ⅞ in	Dayton	6WZN8	**6WZN8**
784	3.0	405 W	1	115V AC	18 in	14 ⅜ in	13 ¼ in	16 ⅞ in	Dayton	6WZN9	**6WZN9**
902	3.8	306 W	Variable	120V AC	22 in	18 in	8 in	12 in	Broan	L900L	**4TR63**
1228	6.8	468 W	Variable	120V AC	22 in	18 in	8 in	12 in	Broan	L1500L	**4TR46**
Double-Wide											
415	1.6	146 W	Variable	120V AC	12 ¼ in	21 ¼ in	4 ½ in	18 ½ in	Broan	L400L	**4TR57**
526	2.4	232 W	Variable	120V AC	12 ¼ in	21 ¼ in	4 ½ in	18 ½ in	Broan	L500L	**4TR59**
686	3.8	313 W	Variable	120V AC	12 ¼ in	21 ¼ in	4 ½ in	18 ½ in	Broan	L700L	**4TR61**
827	1.1	352 W	1	115V AC	11 ⅝ in	11 ⅝ in	10 ½ in	22 ⅝ in	Dayton	60KU37	**60KU37**
875	0.3	318 W	1	115V AC	23 ¾ in	14 ⅜ in	8 in	14 ⅜ in	Dayton	60RG44	**60RG44**
1059	1	467 W	1	115V AC	23 ¾ in	14 ⅜ in	8 in	14 ⅜ in	Dayton	60RG47	**60RG47**
1543	3.2	822 W	1	115V AC	23 ¾ in	14 ⅜ in	13 ¼ in	22 ⅝ in	Dayton	3DPF6	**3DPF6**
1689	5	913 W	1	115V AC	14 ⅜ in	23 ¾ in	13 ¼ in	22 ⅝ in	Dayton	60KU39	**60KU39**
2110	3	1,285 W	1	115V AC	35 in	14 ¾ in	13 in	32 ¾ in	Dayton	60KU40	**60KU40**

Rectangular Duct High-Efficiency Inline Cabinet Fans

Feature electronically commutated motors (ECMs) that are more energy efficient, operate quieter, and have long life compared to other AC motors. Design allows horizontal or vertical mounting, and they connect to ductwork. Fans provide continuous ventilation in office buildings, public restrooms, and similar spaces. Single-wide models have one blower wheel, while double-wide models have two blower wheels that provide a higher airflow than single-wide models.

60KU36

CFM @ 0.100" SP	Sones @ 0.100" SP @ 5 ft.	Watts	No. of Speeds	Voltage	Housing Length	Housing Width	Inlet Height	Inlet Width	Mfr. Model	Item No.
Single-Wide										
400	1.3	98 W	2	115V AC	14 in	11 ⅞ in	10 in	12 ⅞ in	60KU45	**60KU45**
590	1.4	160 W	2	115V AC	14 ⅜ in	14 ⅜ in	13 ¼ in	16 ⅞ in	60KU36	**60KU36**
699	2	236 W	2	120V AC	14 ⅜ in	14 ⅜ in	13 ¼ in	16 ⅞ in	60KU38	**60KU38**
Double-Wide										
857	1	216 W	2	115V AC	11 ⅝ in	11 ⅝ in	10 ½ in	22 ⅝ in	60KU46	**60KU46**
1105	0.9	241 W	2	115V AC	23 ¾ in	14 ⅜ in	—	—	60KU47	**60KU47**
3342	5	1,048.9 W	2	115V AC	45 ½ in	16 ½ in	14 ⅝ in	43 ¼ in	60KU41	**60KU41**

Residential Range Hoods

Install over stoves and ranges to capture grease, smoke, and odors before they can spread through the kitchen and the surrounding home and settle into carpets, furniture, and other surfaces.

Exhaust Hoods—Models extract grease, smoke, and odors from the cooking area so they can be vented to the outside. They connect to ductwork and have a removable/cleanable grease filter to help maintain the hoods' performance. Hoods accept a compatible bulb for lighting the area underneath the hood.

Recirculation Hoods—Hoods filter grease, smoke, and odors from the air around the cooking area and then recirculate the filtered air into the kitchen. They have a removable/cleanable grease filter and a replaceable charcoal filter that helps ensure cooking odors are neutralized. Hoods accept a compatible bulb for lighting the area underneath the hood. They mount under a cabinet, above a stove or range, but do not connect to ductwork.

Convertible Exhaust and Recirculation Hoods—These hoods can connect to ductwork to extract air from the cooking area and vent it to the outside. Models can be used with optional charcoal filters to filter the air around the cooking area and then recirculate the filtered air where the hoods cannot be connected to ductwork. Replaceable filters ensure the hoods can effectively neutralize cooking odors, while removable/cleanable grease filters help maintain the hoods' performance. Hoods accept a compatible bulb for lighting the area underneath the hood.

Overall Height	Overall Width	Overall Depth	Duct Shape	Material	Color	Maximum Airflow Capacity	Max. Noise Level	Number of Light Fixtures	No. of Speeds	Mfr. Model	Item No.
Exhaust Hoods											
6 in	30 in	17 ½ in	Rectangular	Steel	Bisque	210 cfm	7 sones	1	2	403002	**15J080**
6 in	30 in	17 ½ in	Rectangular	Steel	Black	210 cfm	7 sones	1	2	403023	**15J081**
6 in	30 in	17 ½ in	Rectangular	Stainless Steel	Silver	210 cfm	7 sones	1	2	403004	**15J082**
6 in	30 in	17 ½ in	Round	Steel	Bisque	230 cfm	6 sones	1	2	423002	**15J084**
6 in	30 in	17 ½ in	Round	Steel	Black	230 cfm	6 sones	1	2	423023	**15J085**
6 in	30 in	17 ½ in	Rectangular	Steel	White	210 cfm	7 sones	1	2	403001	**4C401**
6 in	30 in	17 ½ in	Round	Steel	White	230 cfm	6 sones	1	2	423001	**6C497**
6 in	30 in	17 ½ in	Round	Stainless Steel	Silver	230 cfm	6 sones	1	2	423004	**6C498**
6 in	36 in	17 ½ in	Rectangular	Steel	White	210 cfm	7 sones	1	2	403601	**15J083**
6 in	36 in	17 ½ in	Round	Steel	White	230 cfm	6 sones	1	2	423601	**15J086**
Recirculation Hoods											
6 in	24 in	17 ½ in	—	Steel	White	—	0 sones	1	2	412401	**15J087**
6 in	30 in	17 ½ in	—	Steel	Bisque	—	0 sones	1	2	413002	**15J088**
6 in	30 in	17 ½ in	—	Steel	Black	—	0 sones	1	2	413023	**15J089**
6 in	30 in	17 ½ in	—	Stainless Steel	Silver	—	0 sones	1	2	413004	**15J090**
6 in	30 in	17 ½ in	—	Steel	White	—	0 sones	1	2	413001	**4C403**
6 in	36 in	17 ½ in	—	Steel	White	—	0 sones	1	2	413601	**15J091**
6 in	36 in	17 ½ in	—	Steel	Black	—	0 sones	1	2	413623	**15J093**
Convertible Exhaust & Recirculation Hoods											
6 in	30 in	19 ½ in	Rectangular, Round	Steel	Black	300 cfm	2 sones	2	2	BCSD130BL	**53UL04**
6 in	30 in	19 ½ in	Rectangular, Round	Steel	White	300 cfm	2 sones	2	2	BCSD130WW	**53UL05**
6 in	30 in	19 ½ in	Rectangular, Round	Stainless Steel	Silver	300 cfm	2 sones	2	2	BCSD130SS	**53UL06**
6 in	30 in	19 ½ in	Rectangular, Round	Stainless Steel	Silver	375 cfm	2 sones	2	3	BCDF130SS	**53UL07**

15J080

15J087

53UL04

5C516

22N753

4YM43

6KVY5

fantech

Centrifugal In-Line Duct Fans

- Mount: horizontally or vertically
- Bearings: ball

Prewired fans have lower sound levels than comparable surface-mounted fans. Max. temp.: 140°F. Mounting bracket included.

THERMOPLASTIC

External wiring box with waterproof gasket. UV protected.

GALVANIZED STEEL

Externally mounted wiring box, 3"L x 3½"W x 1½"D.

FG Series—Airtight housing. Backward curved impeller.

FKD Series—Mixed flow impeller. 6KVY5 to 6KVZ3 have sealed ball bearings.

RADON FAN

Higher pressure capabilities are designed for radon mitigation. Plastic housing.

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	1.000"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	Mfr. Model	Item No.
Thermoplastic													
4 in	151	120 cfm	94 cfm	63 cfm	20 cfm	—	120V	0.17 A	19	9 ½ in	9 ⅝ in	FR100	**5C516** †
4 in	187	168 cfm	150 cfm	128 cfm	112 cfm	95 cfm	120V	0.72 A	80	9 ½ in	9 ⅝ in	FR110	**15W682**
6 in	327	320 cfm	247 cfm	200 cfm	163 cfm	118 cfm	120V	0.59 A	62	11 ¾ in	9 ⅝ in	FR150	**5C517**
6 in	345	295 cfm	252 cfm	197 cfm	157 cfm	135 cfm	120V	0.99 A	116	11 ¾ in	9 ⅝ in	FR160	**15W685**

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	1.500"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	Mfr. Model	Item No.
Galvanized Steel															
FG Series, EC Motors															
6 in	363	344 cfm	323 cfm	305 cfm	287 cfm	247 cfm	206 cfm	113 cfm	120V	1 A	74	13 ⅛ in	9 in	FG 6M EC	**22N753**
8 in	428	405 cfm	380 cfm	357 cfm	334 cfm	285 cfm	239 cfm	121 cfm	120V	0.5 A	71	13 ⅜ in	8 in	FG 8 EC	**22N754**
10 in	513	482 cfm	448 cfm	418 cfm	388 cfm	335 cfm	283 cfm	160 cfm	120V	0.65 A	94	13 ⅜ in	6 ⅞ in	FG 10 EC	**22N755**
12 in	633	616 cfm	594 cfm	582 cfm	560 cfm	515 cfm	467 cfm	379 cfm	120V	0.95 A	136	16 in	8 15/16 in	FG 12 EC	**22N756**
12 in	805	772 cfm	734 cfm	692 cfm	650 cfm	556 cfm	474 cfm	315 cfm	120V	1.16 A	166	16 in	9 3/16 in	FG 12XL EC	**22N757**
FG Series, External Rotor Motors															
4 in	170	157 cfm	146 cfm	135 cfm	126 cfm	90 cfm	86 cfm	40 cfm	120V	0.66 A	71	8 ¾ in	9 ¾ in	FG 4XL	**15W687**
6 in	418	388 cfm	356 cfm	320 cfm	292 cfm	195 cfm	186 cfm	101 cfm	120V	1.02 A	120	13 ⅛ in	13 ⅛ in	FG 6M	**15W690**
8 in	461	429 cfm	395 cfm	355 cfm	323 cfm	204 cfm	191 cfm	97 cfm	120V	1.14 A	119	13 ⅜ in	13 ¼ in	FG 8	**15W692**
6 in	483	462 cfm	439 cfm	412 cfm	389 cfm	299 cfm	289 cfm	201 cfm	120V	1.48 A	153	13 ⅛ in	13 ⅛ in	FG 6XL	**15W691**
10 in	513	492 cfm	471 cfm	446 cfm	425 cfm	334 cfm	324 cfm	216 cfm	120V	1.43 A	138	13 ⅜ in	13 ¼ in	FG 10	**15W693**
FG Series, Totally Enclosed Motors															
4 in	135	123 cfm	106 cfm	89 cfm	69 cfm	33 cfm	—	—	120V	0.19 A	20	8 ¾ in	8 ½ in	FG4	**4YM43**
6 in	303	284 cfm	260 cfm	241 cfm	214 cfm	172 cfm	134 cfm	58 cfm	120V	0.68 A	72	11 ⅜ in	6 ⅛ in	FG6	**4YM44**
8 in	502	482 cfm	460 cfm	438 cfm	408 cfm	360 cfm	313 cfm	218 cfm	120V	1.45 A	142	13 ⅜ in	8 in	FG8XL	**4YM45**
10 in	589	570 cfm	553 cfm	538 cfm	517 cfm	480 cfm	441 cfm	355 cfm	120V	1.96 A	196	13 ⅜ in	6 ⅞ in	FG10XL	**4YM41**
12 in	940	903 cfm	865 cfm	834 cfm	783 cfm	689 cfm	596 cfm	425 cfm	120V	3 A	301	16 in	8 15/16 in	FG12XL	**4YM42**
FKD Series, Totally Enclosed Motors															
8 in	836	799 cfm	761 cfm	720 cfm	680 cfm	595 cfm	499 cfm	286 cfm	120V	2.99 A	327	12 ½ in	15 ½ in	FKD 8XL	**6KVY5**
10 in	910	873 cfm	836 cfm	795 cfm	752 cfm	653 cfm	547 cfm	342 cfm	120V	3.01 A	329	12 ½ in	15 in	FKD 10	**6KVY6**
10 in	1266	1226 cfm	1187 cfm	1147 cfm	1100 cfm	1006 cfm	911 cfm	696 cfm	120V	4.84 A	529	14 in	15 in	FKD 10XL	**6KVY7**
12 in	1305	1266 cfm	1228 cfm	1189 cfm	1145 cfm	1054 cfm	948 cfm	712 cfm	120V	4.86 A	531	14 in	12 ½ in	FKD12	**6XZ77**
12 in	1936	1858 cfm	1777 cfm	1698 cfm	1601 cfm	1380 cfm	971 cfm	144 cfm	120	2.09 A	377	17 ⅞ in	18 ⅞ in	FKD 12XL EC	**45TU31**
12 in	2016	1920 cfm	1832 cfm	1746 cfm	1649 cfm	1423 cfm	1066 cfm	—	120V	4.8 A	500	17 ⅞ in	18 ⅞ in	FKD 12XL	**4YM40**
14 in	2156	2061 cfm	1965 cfm	1868 cfm	1764 cfm	1520 cfm	1193 cfm	—	120V	4.76 A	495	17 ⅞ in	17 ¼ in	FKD 14	**6KVY8**
14 in	2619	2517 cfm	2416 cfm	2303 cfm	2180 cfm	1936 cfm	1662 cfm	843 cfm	120V	7.12 A	738	19 ¾ in	20 ¼ in	FKD 14XL	**6KVY9**
16 in	2952	2831 cfm	2707 cfm	2580 cfm	2445 cfm	2144 cfm	1804 cfm	774 cfm	120V	6.39 A	742	19 ¾ in	18 ¾ in	FKD16	**6XZ78**
16 in	4274	4144 cfm	4014 cfm	3880 cfm	3743 cfm	3452 cfm	3137 cfm	2379 cfm	120V	12.4 A	1421	22 ⅛ in	23 ¼ in	FKD 16XL	**6KVZ0**
18 in	4448	4992 cfm	4130 cfm	3991 cfm	3871 cfm	3583 cfm	3239 cfm	2380 cfm	120V	12.04 A	1411	22 ⅛ in	21 ¾ in	FKD 18	**6KVZ1**
18 in	6236	6115 cfm	5995 cfm	5874 cfm	5754 cfm	5500 cfm	5199 cfm	4909 cfm	230/460V	7.7 A	1873	22 ¼ in	27 ¼ in	FKD 18XL	**6KVZ2**
20 in	6291	6174 cfm	6054 cfm	5933 cfm	5829 cfm	5617 cfm	5307 cfm	4987 cfm	230/460V	3.75 A	2218	22 ¼ in	27 ¾ in	FKD 20	**6KVZ3**

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.500"	0.750"	1.000"	1.500"	Voltage @ 60 Hz	Max. Amps	Max. Wattage	Housing Dia.	L*	H	Brand	Mfr. Model	Item No.
Tjernlund Radon Fan														
6 in	375	285 cfm	235 cfm	183 cfm	125 cfm	120V	1.3 A	152	11 ¾ in	9 ⅜ in	9 ⅜ in	Fantech	RN3	**15W763**

** Lengths include mounting flanges. † Accepts 4" and 5" duct.*

3CGA9

12K675

Mixed Flow In-Line Duct Fans

S&P

- 120V, 60 Hz
- Mount: horizontally or vertically
- Motor: totally enclosed
- Bearings: ball

Motor-impeller assembly can be removed without interfering with attached ducting.

TD-MIXVENT Series—Low-profile fans deliver excellent airflow-to-pressure ratio. 3CGA3 to 3CGA7 have thermoplastic casings and ABS plastic propellers. 3CGA9 and 3CGC1 have metal casings with epoxy-polyester coating and metal propellers.

TD-SILENT Series— Extremely quiet, low-profile fans have perforated inner skin with sound-absorbent insulation. Rubber gaskets on inlet and outlet absorb vibration. Thermoplastic casings and ABS plastic propellers.

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	1.500"	Max. Amps	Max. Wattage	Housing Dia.	L	Mfr. Model	Item No.
TD-MIXVENT Series														
4 in	101/97	85/81 cfm	57/51 cfm	19/16 cfm	—	—	—	—	0.45 A	26/23	5 7/16 in	9 ⅛ in	TD-100	**3CGA3**
6 in	293/218	273/193 cfm	250/163 cfm	227/128 cfm	206/105 cfm	131/24 cfm	35 cfm	—	0.54 A	65/54	7 ⅞ in	8 ⅜ in	TD-150	**3CGA6**
8 in	538/476	495/422 cfm	458/373 cfm	418/317 cfm	367/260 cfm	190/40 cfm	10 cfm	—	0.8 A	184/139	8 ½ in	9 ¼ in	TD-200	**3CGA7**
10 in	754/541	715/475 cfm	680/418 cfm	640/355 cfm	606/295 cfm	520/218 cfm	405/170 cfm	245/65 cfm	2.2 A	241/162	10 ¾ in	11 ½ in	TD-250	**3CGA9**
12 in	1050/751	990/670 cfm	932/545 cfm	850/420 cfm	770/285 cfm	600/190 cfm	420/130 cfm	255/55 cfm	2.3 A	335/208	13 ¼ in	14 in	TD-315	**3CGC1**
TD-SILENT Series														
6 in	333/239	315/209 cfm	286/181 cfm	271/154 cfm	257/120 cfm	178/62 cfm	77/0 cfm	—	0.54 A	65	8 11/16 in	10 13/16 in	TD-150S	**12K675**
8 in	530/409	503/367 cfm	472/333 cfm	443/306 cfm	415/271 cfm	349/183 cfm	204/46 cfm	—	1.01 A	122	10 ⅜ in	12 ⅞ in	TD-200S	**12K676**

Centrifugal In-Line Duct Fans

- 120V, 60 Hz; except 6XAR3 is 115V
- Mount: horizontally or vertically
- Bearings: ball
- Speed controllable

In-line design allows fan mounting away from room for quiet operation. Motor has automatic reset thermal overload protection.

DAYTON

- Max. Inlet Temp.: 104°F

Precision balanced for vibration-free performance and have a quiet and efficient BC impeller. Heavy-gauge, drawn steel housing with an epoxy finish.

SOLER AND PALAU

- Max. Inlet Temp.: 140°F

Impeller is dynamically balanced to help eliminate vibration. Galvanized steel casing with black, baked enamel coating. Prewired junction box eases installation.

450Z04

6XAR2

Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	Max. Amps	Max. Wattage	Motor RPM	Housing Dia.	L	Brand	Mfr. Model	Item No.
4 in	147	119 cfm	75 cfm	45 cfm	14 cfm	0.38 A	43	2580	9 in	9 in	Dayton	450Z04	**450Z04**
	153	136 cfm	116 cfm	106 cfm	92 cfm	0.7 A	84	2880	9 ½ in	9 ½ in	Soler & Palau	PV-100X	**6TWU6**
5 in	183	130 cfm	73 cfm	37 cfm	—	0.69 A	85	2750	9 in	9 in	Dayton	450Z07	**450Z07**
6 in	213	171 cfm	108 cfm	63 cfm	21 cfm	0.38 A	47	2390	9 in	9 in	Dayton	450Z08	**450Z08**
	337	271 cfm	171 cfm	100 cfm	34 cfm	0.72 A	89	2450	13 in	10 in	Dayton	450Z09	**450Z09**
	390	350 cfm	304 cfm	262 cfm	208 cfm	1.08 A	130	3075	13 ⅛ in	13 ⅛ in	Soler & Palau	PV-150X	**6TWX0**
8 in	544	496 cfm	430 cfm	389 cfm	347 cfm	1.5 A	180	2930	13 ⅛ in	13 ⅛ in	Soler & Palau	PV-200X	**6TWX2**
	571	459 cfm	289 cfm	168 cfm	57 cfm	1.5 A	188	2550	13 in	10 in	Dayton	450Z11	**450Z11**
	571	459 cfm	289 cfm	168 cfm	57 cfm	1.5 A	188	2450	13 in	10 in	Dayton	450Z18	**450Z18** *
10 in	618	581 cfm	529 cfm	473 cfm	427 cfm	1.78 A	214	3045	13 ⅛ in	13 ⅛ in	Soler & Palau	PV-250X	**6XAR1**
	630	507 cfm	319 cfm	191 cfm	63 cfm	1.7 A	197	2470	13 in	10 in	Dayton	450Z12	**450Z12**
12 in	654	586 cfm	503 cfm	451 cfm	381 cfm	1.41 A	170	2600	15 15⁄16 in	15 15⁄16 in	Soler & Palau	PV-315	**6XAR2**
	801	643 cfm	407 cfm	240 cfm	80 cfm	1.6 A	206	2450	16 in	13 in	Dayton	450Z13	**450Z13**
	942	873 cfm	793 cfm	689 cfm	576 cfm	3.08 A	370	2650	15 15⁄16 in	15 15⁄16 in	Soler & Palau	PV-315X	**6XAR3**
	1038	835 cfm	527 cfm	309 cfm	103 cfm	2.4 A	312	2780	16 in	13 in	Dayton	450Z14	**450Z14**

** Cord included.*

Remote-Mounted Premium Bath Fan Kits

- 120V, 60 Hz
- Motors: totally enclosed, thermally protected with automatic reset
- Bearings: permanently sealed ball

Can be installed away from bathroom for quiet operation. Galvanized steel housing.

Single Grille—Provide 1 vent in 1 bathroom. Each includes 1 centrifugal fan, collar and grille, backdraft damper, and fan mounting bracket.

Dual Grille—Provide 2 vents in 1 bathroom or 1 vent in 2 bathrooms using 1 fan. Each includes centrifugal fan, 2 collar/grille combinations, 2 backdraft dampers, fan mounting bracket(s), and 1 Y-duct adapter to split duct to each grille. 45TU14 has 1 lit and 1 unlit ceiling grille.

6C509

Description	Fits Duct Dia.	CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	Max. Amps	Max. Wattage	Motor RPM	Housing Dia.	L	Inlet & Outlet Dia.	Mfr. Model	Item No.
Single Grille														
Without Lights, 1" Flange	4 in	135	110 cfm	80 cfm	55 cfm	25 cfm	0.19 A	20	3000	8 ¾ in	8 ½ in	4 in	PB110	**6C509**
Without Lights, 1" Flange	6 in	232	200 cfm	152 cfm	121 cfm	91 cfm	0.6 A	66	2450	11 ⅜ in	8 in	5 ⅞ in	PB190	**3TJ96**
Dual Grille														
Dimmable Halogen Light	4 in, 6 in	300	260 cfm	229 cfm	196 cfm	160 cfm	0.56 A	70	2680	11 ⅜ in	11 ⅜ in	4 in, 6 in	PB 270L10-2	**45TU12**
Dimmable Halogen Light	4 in, 6 in	300	260 cfm	229 cfm	196 cfm	160 cfm	0.56 A	70	2680	11 ⅜ in	11 ⅜ in	4 in, 6 in	PB 270L10V-2	**45TU14**
Without Lights, 1" Flange	4 in, 6 in	303	260 cfm	229 cfm	196 cfm	160 cfm	0.68 A	72	2700	11 ⅜ in	8 in	6 in	PB270-2	**6C510**
Without Lights, 1" Flange	6 in	418	370 cfm	317 cfm	268 cfm	224 cfm	1.02 A	120	2350	13 ⅛ in	8 ⅝ in	6 in	PB370-2	**3NYJ1**

Room-to-Room Transfer Fans

- 120V
- Mount: wall
- Bearings: sealed ball
- Speed controllable

These fans are installed through an interior wall between adjacent rooms to move air between the rooms and balance the ambient temperature in the rooms. Durable, galvanized housing is adjustable to fit walls from 3" to 5½" thick. Plastic grille is white, paintable.

4C708

Exhaust Airflow @ 0.000 in SP	Max. Coverage Area	Max. Noise Level	For Wall Thickness	Housing Material	Nameplate Voltage	Overall Height	Overall Width	Overall Depth	Grille Width	Mfr. Model	Item No.
180 cfm	140 sq ft	5 sones	3 in to 5 ½ in	Steel	120V AC	5 ½ in	13 ½ in	13 ½ in	13 ½ in	511	**4C708**
370 cfm	—	8.5 sones			115V AC					510	**39W524**

In-Line Duct Fan Heaters

Heaters—Install in existing ductwork, providing individual room temp. control. Integrated 24V control board interfaces with supplied 24V heating/cooling thermostat, allowing unit to run independently of main heating equipment and to be used as a backup heating system. Cool by enhancing air flow during central air conditioning operation.

Boots—Easily join heater to ductwork. Flexible, rubberized canvas duct piece reduces noise. 7½"L.

Wireless Thermostat—Kit allows standard low voltage thermostats to wirelessly control an HVAC system.

6LHG1

6LHG3

Fits Duct Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.125"	Voltage	Max. Amps	Heater Watts	BtuH Output	L	H	Mfr. Model	Item No.
Heaters											
6 in	130 cfm	90 cfm	40 cfm	120 V	8.33 A	1000/500	3413 / 1707	10 ½ in	8 ⅜ in	HP6-1000120-2T	**6LHG1**
8 in	210 cfm	120 cfm	60 cfm	120 V	12.0 A	1440/720	4915 / 2457	10 ½ in	10 ⅜ in	HP8-1440120-2T	**6LHG2**
Boots											
In-Line Fuct Fan Heater Boot For 6" Rigid Duct Work										SB-6	**6LHG3**
In-Line Fuct Fan Heater Boot For 8" Rigid Duct Work										SB-8	**6LHG4**
Wireless Thermostat											
White, 24V AC, Includes (2) AAA Alkaline Batteries, Remote Transmitter										RFKIT-5	**20HN59**

4C705

4C702

20JR07

BROAN Panasonic

Ductless Through-the-Wall Exhaust Fans

- Galvanized steel housing
- Optional controls sold separately

Mount to an exterior wall and do not need to be connected to ductwork. Fans are suitable for ventilating a single room or spot ventilating areas near workbenches or equipment that emits fumes. They circulate the air and can help regulate the indoor air temperature. Fans have adjustable housings and paintable grilles.

No Switch on Unit—Models are controlled by a separate switch, timer, or speed control remotely mounted on the wall.

Max. Exhaust Airflow @ 0.000 in SP	Max. Coverage Area	Max. Noise Level	Nameplate Voltage	Duct Dia. (in.)	Control Type	Includes	Brand	Mfr. Model	Item No.
Standard Ductless Through-the-Wall Exhaust Fans									
180 cfm	195 sq ft	9 sones	120V AC	8⅜ in	Rotary Dial	Backdraft Damper, Rotary On-Off Switch, Weather Hood	Broan	509S	**4C705**
180 cfm	195 sq ft	9 sones	120V AC	8⅜ in	No Switch on Unit	Backdraft Damper	Broan	509	**4C706**
250 cfm	245 sq ft	7 sones	120V AC	8⅜ in	Pull Chain	—	Broan	507	**4C703**
270 cfm	285 sq ft	8 sones	120V AC	10⅜ in	No Switch on Unit	Backdraft Damper, Weather Hood	Broan	508	**4C704**
470 cfm	425 sq ft	8 sones	120V AC	10⅜ in	Pull Chain	Weather Hood	Broan	506	**4C702**
Quiet-Design Ductless Through-the-Wall Exhaust Fans									
70 cfm		1.1 sones	240V AC		No Switch on Unit	Exterior Hood, Sleeve	Panasonic	FV-08WQ1	**20JR07**
Accessories									
Replacement Motor, 1.5A, 3000 rpm, 120V, For Use with Mfr. No. 509MG							Broan	99080180	**1AAC9**
Replacement Motor, For Use with Mfr. No. 502, 504MG, 506, 508, 504MG, 506MG							Broan	99080596	**1AAC7**
Replacement Motor, For Use with Mfr. No. 507MG and 505							Broan	99080176	**1AAC8**

6C511

4YG73

S&P fantech BROAN

Ducted Through-the-Wall Exhaust Fans

- Motor phase: 1
- Permanently lubricated bearings
- Speed-controllable

Connect to ductwork which ensures that fan-generated noise is kept outside when the fans are mounted to an exterior wall. Suitable for remote ventilation of work areas, offices, bathrooms, utility rooms, and other similar small spaces. **High-Efficiency** models have a high-efficiency motor that decreases the amount of energy required compared to other similarly sized ducted through-the-wall exhaust fans with standard AC motors.

Max. Exhaust Airflow @ 0.000 in SP	Max. Coverage Area	Max. Noise Level	Nameplate Voltage	Duct Diameter	Housing Material	Housing Finish	Includes	Brand	Mfr. Model	Item No.
Standard Ducted Through-the-Wall Exhaust Fans										
119 cfm	200 sq ft	6.6 sones	120V AC	4 in	Steel	Painted Enamel	Backdraft Damper, Exhaust Grille	Soler & Palau	SWF-100	**12K677**
171 cfm	300 sq ft	9.1 sones	120V AC	4 in	Steel	Painted Enamel	Backdraft Damper, Exhaust Grille	Soler & Palau	SWF-100X	**12K678**
193 cfm	—	—	115V AC	4 in	Steel	Powder-Coated	Impeller	Fantech	RVF4XL	**6C511**
235 cfm	400 sq ft	10.1 sones	120V AC	6 in	Steel	Painted Enamel	Backdraft Damper, Exhaust Grille	Soler & Palau	SWF-150	**12K679**
242 cfm	—	—	115V AC	6 in	Steel	Powder-Coated	Impeller	Fantech	RVF 6	**15W795**
354 cfm	600 sq ft	13.7 sones	120V AC	6 in	Steel	Painted Enamel	Backdraft Damper, Exhaust Grille	Soler & Palau	SWF-150X	**12K680**
378 cfm	—	—	115V AC	8 in	Steel	Powder-Coated	Impeller	Fantech	RVF 8XL	**15W796**
381 cfm	—	—	115V AC	6 in	Steel	Powder-Coated	Impeller	Fantech	RVF6XL	**6C513**
416 cfm	750 sq ft	14.1 sones	120V AC	8 in	Steel	Painted Enamel	Backdraft Damper, Exhaust Grille	Soler & Palau	SWF-200	**12K681**
630 cfm	—	—	120V AC	10 in	Aluminum	—	Flashing Plate and Damper	Broan	331H	**4YG73**
940 cfm	—	—	120V AC	10 in	Aluminum	—	Removable Cover	Broan	332H	**4YG74**
1,250 cfm	—	—	120V AC	10 in	Aluminum	—	Flashing Plate and Damper	Broan	335	**4YG75**
High-Efficiency Ducted Through-the-Wall Exhaust Fans										
255 cfm	—	—	120V AC	4 in	Steel	Powder-Coated	Speed Control Potentiometer	Fantech	RVF 4XL EC	**45TU27**
410 cfm	—	—	120V AC	6 in	Steel	Powder-Coated	Speed Control Potentiometer	Fantech	RVF 6XL EC	**45TU28**
574 cfm	—	—	120V AC	8 in	Steel	Powder-Coated	Speed Control Potentiometer	Fantech	RVF 8XL EC	**45TU29**
972 cfm	—	—	120V AC	10 in	Steel	Powder-Coated	Speed Control Potentiometer	Fantech	RVF 10 EC	**45TU30**

5GDU8

5GDV0

6KXZ0

6KXZ1

Crawl Space and Basement Ventilation Fans

TJERNLUND

Reduce humidity, mold, mildew, odors, and wood rot in crawl spaces and basements, and help reduce radon concentrations by ventilating these areas. **Crawl Space** fans mount behind existing passive louvers and pull air from louvers on opposite walls. When using multiple fans, install to maximize cross-flow ventilation. Galvanized metal faceplate can be trimmed if necessary. All models include freeze protection thermostat. **Basement** Fan 6KXZ0 installs in cut-out of rim joist or wall. 2 reversible fans provide either air supply, exhaust or balanced air exchange. Includes adjustable dehumidistat, 6-ft. power cord, and all mounting hardware. Use 6KXZ1 Duct Take Off Kit to duct air supply/exhaust to other rooms.

DETERMINE QUANTITY OF CRAWLSPACE FANS NEEDED

Calculate cubic area of crawlspace by multiplying L x W x H. Divide by 15 to determine minimum cfm needed to fully ventilate space in 15 min.

Example: 20W x 40L x 3 ft. H crawlspace = 2400 cu. ft.
2400 cu. ft. ÷ 15 min. = 160 cfm of ventilation.

Description	H	W	D	Cutout H	Cutout W	Free Area	Air Flow	Voltage	Amps	Thermostat	Dehumid. Control	Material	Finish	Mfr. Model	Item No.
Crawl Space Fan, Manual Hardwire	6 ⅞ in	14 ⅜ in	2 in	6 in	8 in	12 sq ft	110 cfm	120 V	0.3 A	Opens at 40°F	No	Galv. Steel	Aluminum	V1	**5GDU8**
Crawl Space Fan, Automatic Plug-In	9 in	18 in	2 in	6 in	8 in	12 sq ft	110 cfm	120 V	0.3 A	Opens at 40°F	Yes	Galv. Steel	Aluminum	V1D	**5GDU9**
Crawl Space Fan, Automatic Plug-In	9 in	18 in	2 in	6 in	15 in	24 sq ft	220 cfm	120 V	0.6 A	Opens at 40°F	Yes	Galv. Steel	Aluminum	V2D	**5GDV0**
Basement Fan, Reversible	4 ⅞ in	14 ¼ in	22 in	5 ¼ in	12 ¼ in	—	180 cfm	120 V	0.6 A	No	Yes	Galv. Steel	Spangle	X2D	**6KXZ0**
Duct Take Off Kit, For Use With Mfr. No. X2D, Includes Zip Ties						—	—	—	—	—	—	Plastic; Steel	Galvanized	DT2-6	**6KXZ1**

BROAN S&P Panasonic

Speed Control and Switches

Fit a single-gang box.

Speed Control—Adjusts sound, speed, CFM, and energy usage. Faceplate not included.

Switches—Use to control fans and lights, except 6XAU2 is only for fan control.

Timer—Operates as both a fan and light switch, and features programmable delay and ventilation settings.

60NT44

55NM01

Switch Color	Plate Color	Type	Voltage	Max. Amps	Brand	Mfr. Model	Item No.
Speed Control							
White	White	Adjustable Speed	120	3 A	Broan	SC100W	**60NT44**
Switches							
Black	White	Percentage Timer	24	—	Soler & Palau	SPTL	**6XAU2**
White	—	Rocker, 2-Function	120	—	Broan	P2RW	**55NM01**
White	—	Rocker, 3-Function	120	—	Broan	P3RW	**55NM02**
White	White	2-Function	120	15	Panasonic	FV-WCSW21-W	**20JR13**
Timer							
White	White	Delay Timer	120	15	Panasonic	FV-WCPT1-W	**20JR18**

3WE95

BROAN

Ducting Accessories

Designed for 3" and 4" ductwork. Use to vent heat, moisture, and odors from bathrooms, showers, and recreation rooms.

Description	Includes	Mfr. Model	Item No.
Roof Vent Kit, 4" Round	(2) 4 in Clamps, 4 in Dia. Metal Duct Connector, 4 to 3 in Reducer, 8 ft Long x 4 in Dia. Flexible Metal Ducting, Mfr. No. 636 Roof Jack for 3 & 4 in Ducts	RVK1A	**3WE95**
Wall Vent Kit, 4" Round	(2) Nylon Zip Ties, 4 in Clamps, 4 to 3 in Foam Reducer, 5 ft Long x 4 in Dia. Flexible Metal Ducting, Square Louvered Wall Vent w/ Rigid Ducting On Back	WVK2A	**3WE96**
3 ¼ x 10" to 6 in Round Transition Duct		411	**5C200**
3 ¼ x 10" to 7 in Round Transition Duct		412H	**4MG71**
4 ½ x 18" ½ to 10" in Round Transition Duct		423	**4TP55**
8 x 12" to 12" Round Transition Duct		T81212	**5ZR17**

BROAN Dayton

Roof and Wall Caps

For use on vent terminations.

Roof Caps—Steel caps have black epoxy finish. Aluminum caps feature built-in flashing and long riser, and can be used on flat or slightly pitched roofs. 4CK03 and 4CK05 have 1¾"H flanges.

4YG76

4C849

Fits Duct Size (in.)	Flange Size (in.)	Construc. Material	Includes	Brand	Mfr. Model	Item No.
Roof Caps						
3 in, 4 in	10¼ x 11	Steel	Built-in Bird Screen w/ Removable Damper	Broan	636	**2C905**
4 in Round	9¼ in x 11 3/64 in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE70	**45PE70**
6 in	14¼ x 18¾	Steel	Built-in Bird Screen w/ Cushioned Backdraft Damper	Broan	634M	**4YG79**
6 in Round	14¼ in x 18¾ in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE69	**45PE69**
8 in	15⅜ x 15¼	Aluminum	Built-in Bird Screen, Built-in Flashing, Long Riser & 1¾ in Flange	Broan	611CM	**4CK03**
10 in	27¼ x 18½	Steel	Built-in Bird Screen w/ Backdraft Damper	Broan	437	**4YG76**
10 ¼ in x 10 ¾ in	14¼ in x 18¾ in	Steel	Bird Screen, Built-In Backdraft Damper	Dayton	45PE68	**45PE68**
12 in	17⅜ x 17½	Aluminum	Built-in Bird Screen, Built-in Flashing, Long Riser & 1¾ in Flange	Broan	612CM	**4CK05**
Wall Caps						
3 in Round, 4 in Round	5 25/32 in x 5 25/32 in	Aluminum	Built-In Backdraft Damper	Dayton	45PE71	**45PE71**
3 in, 4 in	6 x 6	Aluminum	Built-in Backdraft Damper	Broan	642	**4C388**
3 ⅜ in x 10 ¼ in	5 9/16 in x 12¾ in	Steel	Bird Screen, Built-In Spring-Loaded Damper	Dayton	45PE72	**45PE72**
6 in	9 x 9	Aluminum	Built-in Backdraft Damper & Bird Screen	Broan	641	**4C849**
6 in Round	9 in x 9 in	Aluminum	Bird Screen & Built-In Spring-Loaded Damper	Dayton	45PE74	**45PE74**
7 in	9 x 9	Aluminum	9 x 9 in, Built-in Backdraft Damper, Flange & Bird Screen Shields Cap	Broan	647	**5E835**
8 in	12½ x 13	Aluminum	Built-in Damper	Broan	643	**4YG80**
8 in Round	12 55/64 in x 12½ in	Aluminum	Built-In Backdraft Damper	Dayton	45PE73	**45PE73**
10 in	13 x 13	Steel With Aluminum Louvers	Gravity Dampers & Collar w/ Bird Screen	Broan	441	**4YG77**

westaflex StretchFLEX 5L "Superior 5 Layer Technology"

Expandable/Flexible Aluminum Ductwork

3C591

- Internal/external temp. range up to 500°F
- Compressed Size: 30"

Strong, lightweight aluminum alloy and installs within walls, wall chases, or ceilings where inaccessibility requires a durable duct. Use in ventilation equipment for air and gas free of corrosive fumes or particles.

Inside Dia.	15 ft Brand	15 ft Item No.	30 ft Brand	30 ft Item No.	Inside Dia.	15 ft Brand	15 ft Item No.	30 ft Brand	30 ft Item No.
3 in	Westaflex	**3C590**	Westaflex	**3XK03**	7 in	Stretchflex	**59ZX57**	Stretchflex	**59ZX61**
4 in	Westaflex	**3C591**	Westaflex	**3XK04**	8 in	Westaflex	**3XK02**	Westaflex	**3XK06**
5 in	Stretchflex	**59ZX56**	Stretchflex	**59ZX60**	10 in	Stretchflex	**59ZX58**	Westaflex	**3XK07**
6 in	Westaflex	**5C201**	Westaflex	**3XK05**	12 in	Stretchflex	**59ZX59**	Westaflex	**3XK08**

Dryer Booster Fans

S&P TJERNLUND

Use where dryer duct runs exceed 25 ft. equivalent.

Soler and Palau—Feature totally enclosed motor with Class F insulation and backward inclined wheel to overcome extreme pressure in tough installations. 6XAR4 has attached pressure switch. 6XAR5 has current sensor. Each includes mounting bracket.

Tjernlund—Handles up to 150 equivalent ft. of duct: straight duct length plus 5 ft. per elbow. Auto-syncs with clothes dryer. 6-ft. grounded plug. Horizontal or vertical duct connection. External motor and lintproof blower.

6XAR4

45EA67

CFM @ Static Pressure Shown 0.000"	0.200"	0.400"	0.600"	0.800"	1.000"	Voltage	Housing Dia.	Housing Height	Duct Dia.	Inlet Dia.	Watts	Max. Amps	Brand	Mfr. Model	Item No.
153 cfm	130 cfm	114 cfm	97 cfm	84 cfm	80 cfm	115 V AC	9 ½ in	7 ⅝ in	4 in	4 in	84 W	0.7 A	Soler & Palau	PV-100XPS	**6XAR4**
153 cfm	130 cfm	114 cfm	97 cfm	84 cfm	80 cfm	115 V AC	9 ½ in	7 ⅝ in	4 in	4 in	84 W	0.7 A	Soler & Palau	DBF-100XC	**6XAR5**
160 cfm	140 cfm	120 cfm	114 cfm	105 cfm	87 cfm	120 V AC	14 in	10 ½ in	4 in	4 in	50 W	0.53 A	Tjernlund	LB2	**45EA67**

REVCOR REVOLUTIONARY AIR FLOW™ Dayton®

A/C Condenser Replacement Propellers

2MTT2

4DLJ3

2RAU2

- Rotation facing discharge
- Embossed aluminum blades and spiders for strength and rigidity
- Hub-type propellers have ½" bore and include set screws (hub on intake side)
- Hubless propellers require interchangeable hex hubs (sold separately, this page)
- For low static pressure applications

For use with A/C condensers, heat pumps, heat exchangers, unit heaters, and power roof ventilators. OEM replacements for the aftermarket. Additional sizes available on Grainger.com.

Prop. Dia.(in.)	Pitch (Deg.)	Max. RPM	Min. HP	CFM @ 0.150" SP	CFM @ 0.300" SP	CW ROTATION Item No.	CCW ROTATION Item No.
Revcor Hub-Type Propellers with ½" Bore Dia. (Hub on Intake Side)							
2 Blades							
14 in	36 °	1,725 RPM	¼ hp	—	2,022 cfm	**2MTT2**	—
18 in	29 °	1,140 RPM	⅙ hp	—	1,565 cfm	**2MTT7**	**2MTT8**
3 Blades							
18 in	20 °	1,140 RPM	⅙ hp	—	1,353 cfm	**2MTV1**	—
18 in	27 °	1,100 RPM	⅛ hp	2,204 cfm	—	**4DLJ2**	**4DLJ3**
20 in	26 °	1,100 RPM	⅕ hp	2,946 cfm	—	**4DLJ7**	—
22 in	20 °	1,140 RPM	⅓ hp	—	3,551 cfm	**2MTV6**	**2MTV7**
22 in	27 °	1,100 RPM	⅓ hp	4,580 cfm	—	**4DLK4**	—
24 in	28 °	1,100 RPM	¾ hp	6,341 cfm	—	**4DLL5**	—
Revcor Hubless Propellers							
3 Blades							
18 in	29 °	1,140 RPM	¼ hp	—	1,998 cfm	**2RAH7**	—
18 in	32 °	1,140 RPM	¼ hp	—	2,148 cfm	**2RAH9**	**2RAJ1**
24 in	24 °	1,140 RPM	¾ hp	—	5,255 cfm	**2RAL6**	—
4 Blades							
10 in	33 °	1,725 RPM	1⁄15 hp	—	520 cfm	**2RAU2**	—
14 in	33 °	1,725 RPM	⅓ hp	—	1,843 cfm	**2RAX2**	**2RAX3**
16 in	33 °	1,725 RPM	¾ hp	—	3,167 cfm	**2RAY1**	**2RAY2**
22 in	23 °	1,140 RPM	½ hp	—	3,845 cfm	**2RAZ6**	**2RAZ7**
26 in	24 °	1,140 RPM	1 hp	—	7,099 cfm	**2RCD2**	—
26 in	27 °	1,140 RPM	1 ½ hp	—	7,801 cfm	**2RCD4**	—
Dayton Hubless Propellers							
4 Blades							
18 in	33 °	1,140 RPM	¼ hp	—	1,834 cfm	**4C890**	**4C891**
20 in	29 °	1,140 RPM	½ hp	—	2,934 cfm	**4C894**	**4C895**
22 in	27 °	1,140 RPM	½ hp	—	3,605 cfm	**4C898**	**4C899**
24 in	27 °	1,140 RPM	¾ hp	—	5,277 cfm	**4C902**	**4C903**
24 in	33 °	1,140 RPM	1 hp	—	6,066 cfm	**4C904**	**4C905**

Bore Dia. (in.)	No. of Set Screws	For Use With	Includes	Item No.
Dayton Interchangeable Hex Hubs, Alloy Steel				
⅜ in	1	Replacement Propellers for A/C Condensing Units 4C886 to 4C905	Pretapped Holes with Mounting and Set Screws	**2A563**
½ in	2			**2A564**
⅝ in	2			**2A565**

Description	Item No.
Dayton Accessories	
Fan Blade/Wheel Puller, Fan & Wheel; Incl. 4 Jaws, Plastic Centering Sleeve, Hardened Bolt, 4 Locking Bolts, Instructions	**2PYL8**
Fan Blade Pitch Gauge	**2PYL9**

5JLL1

2PYP8

2PYT3

Dayton®

Evaporator/Condenser Replacement Propellers

- Propellers are individually retail packaged for easy identification and display
- Rotation-facing discharge
- For low static pressure applications

Lightweight construction reduces wear on motor bearing and prolongs motor life. Additional sizes available on Grainger.com.

Propeller Dia. (in.)	No. of Blades	Bore Dia. (in.)	Recommended Motor HP	CFM @ 3000 rpm	Item No.
Plastic Propellers, 200°F Max. Ambient Temp.					
CW Facing Discharge					
4 in	5	3⁄16 in	1⁄250 hp	100 RPM	**5JLL1**
5 in	5	3⁄16 in	1⁄100 hp	150 RPM	**5JLL7**
CCW Facing Discharge					
4 in	5	3⁄16 in	1⁄250 hp	100 RPM	**5JLL3**

Propeller Dia. (in.)	No. of Blades	Bore Dia. (in.)	Blade Width (in.)	Pitch (Deg.)	CFM @ 0.000" SP	Req. Motor HP	Item No.
Aluminum Hub-Type Propellers For Use with 3000 rpm C-Frame Motors							
CW Facing Discharge							
3 in	10	3⁄16 in	½ in	24 °	60	1⁄250	**2PYP8**
4 ½ in	10	3⁄16 in	¾ in	30 °	300	1⁄150	**2PYN5**
5 in	10	3⁄16 in	⅞ in	35 °	400	1⁄100	**2PYN7**
Aluminum Hub-Type Propellers For Use with 1550 rpm STD Case Motors							
CW Facing Discharge							
7 in	5	¼ in	1 1⁄16 in	21 °	300	1⁄100	**2PYT5**
9 in	5	¼ in	1 ⅜ in	25 °	500	1⁄100	**2PYT7**
10 in	5	5⁄16 in	1 ⅝ in	30 °	600	1⁄50	**2MXY2**
12 in	5	5⁄16 in	2 ⅛ in	24 °	1000	1⁄50	**2MXX9**
14 in	5	½ in	3 ½ in	32 °	1400	1⁄30	**2MXX7**
CCW Facing Discharge							
10 in	5	5⁄16 in	1 ⅝ in	30 °	600	1⁄50	**2MXY3**
12 in	5	5⁄16 in	2 ⅛ in	24 °	1000	1⁄50	**2MXY1**
Aluminum Hubless Propellers For Use with 1550 rpm Threaded Shaft Motors							
CW Facing Discharge							
9 in	5	Hubless	1 ⅜ in	25 °	500	1⁄125	**2PYT3**
CCW Facing Discharge							
8 in	5	Hubless	1 ⅝ in	40 °	300	1⁄185	**2PYT2**

4M079

4YFF9

Dayton®

Shaded Pole C-Frame and Unit Bearing Motors

- Max. ambient temp.: 40°C

C-Frame Motors—For use in small fans and blowers found in bathroom ventilators, range hoods, electric heaters, hair dryers, slide projectors, air cleaners, humidifiers, and refrigeration equipment.

Note: This product is NOT SUITABLE for any unattended equipment (including built-in bathroom exhaust fans), unless the listed Thermal Protection is 1 Shot.

Unit Bearing Motors—Use with commercial and industrial HVAC and refrigeration equipment, and other applications.

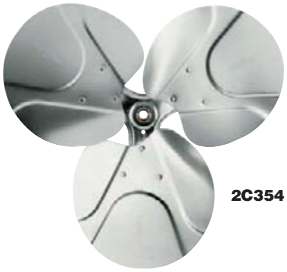
HP	Motor Enclosure Design	Nameplate RPM	Voltage	Motor Thermal Protection	Motor Mounting Type	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
C-Frame Motors, CWSE									
1⁄250	Open Air-Over	3,000	115V AC	Impedance with One-Shot Backup	Stud	3⁄16 in	1 in	1 ⅝ in	**4M068**
1⁄250	Open Air-Over	3,000	230V AC	Impedance with One-Shot Backup	Stud	3⁄16 in	1 in	1 ⅝ in	**4M069**
1⁄150	Open Air-Over	3,000	115V AC	Impedance with One-Shot Backup	Stud	3⁄16 in	1 in	1 11⁄16 in	**4M070**
1⁄70	Open Air-Over	3,000	115V AC	One-Shot	Stud	3⁄16 in	1 in	2 in	**4M073**
1⁄70	Open Air-Over	3,000	120V AC	One-Shot	Stud	3⁄16 in	2 in	1 ⅞ in	**4M079**
Unit Bearing Motors, CWLE									
1⁄150	Totally Enclosed Air-Over	1,550	115V AC	Impedance	Rear/Double Foot	¼ in	½ in	2 ⅝ in	**4YFF7**
1⁄125	Totally Enclosed Air-Over	1,550	115V AC	Impedance	Rear/Double Foot	¼ in	½ in	2 ⅝ in	**4YFF9**
1⁄83	Totally Enclosed Air-Over	1,550	115V AC	Auto	Rear/Double Foot	¼ in	½ in	2 ⅝ in	**4YFG2**
1⁄83	Totally Enclosed Air-Over	1,550	230V AC	Auto	Rear/Double Foot	¼ in	½ in	2 ⅝ in	**4YFG4**

Dayton®

Air Circulator and Exhaust Fan Aluminum Replacement Propellers

- No. of blades: 3
- CW rotation facing discharge
- Embossed aluminum blades and spiders for strength and rigidity
- Hubs include set screws (hub on intake side)
- Suitable for low static pressure applications

Note: Air deliveries based on standard test codes of AMCA. When used in system over 0.250" SP, increase motor HP to next larger size.



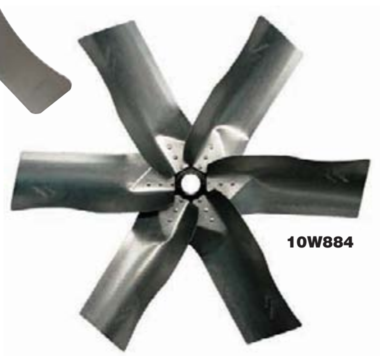
2C354

Prop. Dia. (in.)	CFM @ 0.000" SP	RPM High	Required HP @ Higher RPM	RPM Low	Required HP @ Lower RPM	Bore Dia. (in.)	Pitch (Deg.)	Item No.
12 in	833/584	1,550 RPM	1⁄40 hp	1,050 RPM	1⁄100 hp	5⁄16 in	25 °	**2C354**
	928/629	1,550 RPM	1⁄25 hp	1,050 RPM	1⁄70 hp	5⁄16 in	28 °	**2C356**
	1087/737	1,550 RPM	1⁄20 hp	1,050 RPM	1⁄60 hp	½ in	33 °	**2C683**
	1458/963	1,725 RPM	⅛ hp	1,140 RPM	1⁄250 hp	½ in	40 °	**4C348**
16 in	2335/1543	1,725 RPM	⅕ hp	1,140 RPM	1⁄17 hp	½ in	26 °	**2C359**
	2335/1543	1,725 RPM	⅕ hp	1,140 RPM	1⁄17 hp	⅝ in	26 °	**4C460**
18 in	3082/2037	1,725 RPM	¼ hp	1,140 RPM	1⁄12 hp	½ in	23 °	**2C361**
	3408/2252	1,725 RPM	⅓ hp	1,140 RPM	1⁄11 hp	⅝ in	26 °	**2C363**

Prop. Dia. (in.)	CFM @ 0.000" SP	RPM High	Required HP @ Higher RPM	RPM Low	Required HP @ Lower RPM	Bore Dia. (in.)	Pitch (Deg.)	Item No.
20 in	3220/2128	1,725 RPM	¼ hp	1,140 RPM	1⁄15 hp	½ in	17 °	**2C365**
	3220/2128	1,725 RPM	¼ hp	1,140 RPM	1⁄15 hp	⅝ in	17 °	**4C462**
	3766/2489	1,725 RPM	⅓ hp	1,140 RPM	1⁄10 hp	½ in	20 °	**2C368**
	3766/2489	1,725 RPM	⅓ hp	1,140 RPM	1⁄10 hp	⅝ in	20 °	**2C367**
24 in	3573/2361	1,725 RPM	¼ hp	1,140 RPM	1⁄12 hp	½ in	11 °	**2C370**
	3908/2736	1,500 RPM	¼ hp	1,050 RPM	1⁄12 hp	½ in	14 °	**4C231**
	3908/2736	1,500 RPM	¼ hp	1,050 RPM	1⁄12 hp	⅝ in	14 °	**4C464**
	5723/3782	1,725 RPM	½ hp	1,140 RPM	⅙ hp	½ in	18 °	**2C372**
	5723/3782	1,725 RPM	½ hp	1,140 RPM	⅙ hp	⅝ in	18 °	**2C373**
30 in	6122/4556	1,075 RPM	½ hp	800 RPM	¼ hp	⅝ in	20 °	**4C457**
	7657	1,075 RPM	¾ hp	—		⅝ in	24 °	**3C380** *

** 3⁄16"W x 3⁄32"H keyway. Hub is full arc welded to spider.*

4GMP2



10W884

REVCOR
REVOLUTIONARY AIR FLOW™

Heavy-Duty Replacement Propellers

- CW rotation facing discharge
- Galvanized steel blades with steel spiders

AGRICULTURE

- Hubs include set screws

Designed for applications that require high air flow at low static pressures.

COMMERCIAL & INDUSTRIAL

For air conditioning, ventilation, air handlers, cooling towers, large unit heaters, and agricultural applications.

Propeller Dia. (in.)	Bore Dia. (in.)	Pitch	HP	RPM	No. of Blades	Hub Location	Item No.
Agriculture							
Belt-Drive							
36 in	⅞ in	29 °	½ hp	600	4	Discharge	**4GMP2**
	1 in	32 °	½ hp	600	6	Discharge	**4GMP8**
42 in	¾ in	13 °	1 hp	600	3	Intake	**4GMR2**
48 in	¾ in	23 °	1 hp	600	2	Intake	**4GMP5**
	⅞ in	26.5 °	1 hp	600	4	Discharge	**4GMR1**

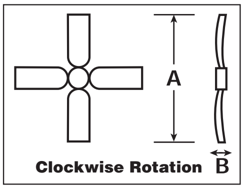
Propeller Dia. (in.)	Pitch (Deg.)	Req. Motor HP	Max. RPM	CFM @ 0.000" SP	No. of Blades	Item No.
Commercial & Industrial						
Requires H Type Taper Lock Bushing						
24 in	38 °	2¾	1450	11,165	6	**10W884**
30 in	22 °	1	1140	9804	4	**10W879**
	30 °	1¾	1140	12,996	4	**10W880**
	38 °	3¼	1140	16,701	6	**10W885**
36 in	38 °	2¾	850	18,417	4	**10W882**
	38 °	3½	850	21,250	6	**10W886**
48 in	38 °	8¾	700	43,400	6	**10W887**

Dayton®

Cast Aluminum Heavy-Duty Replacement Propellers

3GTE8

Spark resistant and designed to exhaust combustible materials and fumes in agricultural or industrial hazardous locations. CW rotation facing discharge. Statically balanced propellers. 16" to 24" models are multipiece construction. 30" model has a 1-pc. casting. ½" bore has no keyway. ⅝" and ¾" bores have 3⁄16"W x 3⁄32"D keyway. Max. temp.: 200°F.



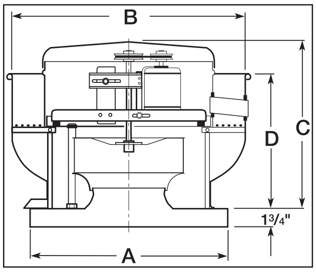
Propeller Dia. (in.)	A (in.)	B (in.)	CFM @ 0.000" SP	Req. Motor HP	Max. RPM	No. of Blades	½ in" BORE Item No.	⅝ in" BORE Item No.	¾ in" BORE Item No.
16 in	15 ⅞ in	2 ⅝ in	2660	¼	1725	4	**3GTE8**	**3GTF6**	—
18 in	17 ⅞ in	2 7⁄16 in	2840	¼	1725	4	**3GTE9**	**3GTF7**	—
	17 ⅞ in	2 7⁄16 in	3410	⅓	1725	4	**3GTF1**	**3GTF8**	—
20 in	19 ⅞ in	2 7⁄16 in	3547	⅓	1725	4	**3GTF3**	**3GTF9**	—
	19 ⅞ in	2 7⁄16 in	4580	½	1725	4	**3GRE5**	**3GTG1**	—
24 in	23 ⅞ in	2 ⅝ in	3950	⅓	1725	4	**3GTF4**	**3GTG2**	—
	23 ⅞ in	2 ⅝ in	5300	½	1725	4	—	—	**3GRE8**
	23 ⅞ in	2 ⅝ in	6720	¾	1725	4	—	**3GTG4**	—
30 in	30 in	1 ⅝ in	10230	¾	1075	3	—	**3GRE1**	—

Dayton®

Industrial/Commercial Air Circulator Replacement Propellers

2MVX5

Propeller Dia. (in.)	Bore Dia. (in.)	HP	RPM	No. of Blades	For Use With	Item No.
18 in	½ in	1⁄12 hp	1500	3	2LY93	**2MVX5**
20 in	½ in	—	1100	3	1VCE7, 1VCF2	**2ATV7**
	⅝ in	¼ hp	1725	3	4C458	**4HZ10**
24 in	½ in	—	1800	3	1ZCN8, 4VAC7	**2ATW1**
	½ in	¼ hp	1075	2	3C685	**4HZ11**
	½ in	¼ hp	1075	3	3C215	**4HZ05**
	⅝ in	½ hp	1725	2	4C021	**4HZ06**
	⅝ in	⅓ hp	825	3	1YNW3	**23NU03**
	⅝ in	¼ hp	1725	2	3C218	**4HZ04**
	43⁄64 in	¼ hp	1100/900	3	2LY97, 2MA10	**2MVX8**
30 in	29⁄64 in	⅕ hp	1100	3	2MA12	**2MVY2**
	15⁄32 in	¼ hp	1100	3	2MA12B	**23NU16**
	½ in	¼ hp	1075	2	3C686	**4HZ03**
	⅝ in	½ hp	1075	2	3C219	**4HZ07**
	⅝ in	⅓ hp	800	3	1YNW4	**23NU04**
	⅝ in	⅓ hp	800	3	2RDZ2	**23NU10**
	43⁄64 in	¼ hp	1100/900	3	1RWB4A, 1RWB5A	**2MVX9**
36 in	—	1 hp	850	5	1YNW7	**23NU07**
	½ in	½ hp	1100	3	3PEG9, 3PEH2	**2ATB5**
	⅝ in	½ hp	850	3	1YNW5A	**23NU05**
42 in	⅝ in	½ hp	850	3	2RDZ4	**23NU12**



Centrifugal Belt-Drive Upblast Exhaust Ventilators

- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box
- Max. inlet air temp.: 300°F
- Air handling quality bearings meet min. L10-100,000 hr.
- Bearings—units without drive package: sealed pillow block up to 16½" wheel dia., regreasable pillow block for 18½" wheel dia. and larger
- Bearings—assembled units: sealed pillow block up to 18½" wheel dia., regreasable pillow block for 21¼" wheel dia. and larger
- UL and C-UL 762 Listed Restaurant Exhaust Appliances

Designed for use in restaurants, schools, and commercial and industrial applications to exhaust contaminated air from kitchen range hoods up and away from roof. 1-pc. rolled aluminum windband is fully welded to base for virtually leakproof seal between the ventilator and the mounting surface. Internal steel support braces and a fully rolled windband dramatically increase the rigidity of the ventilator.

Motor, drive frame, and wheel are isolated from the mounting base by independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is isolated from the contaminated air stream and is cooled by outside air that is pulled in through an oversized breather tube by the spinning action of the wheel. Motors, sheaves, and belts are packed separately when unassembled ventilator with drive package is ordered.

Note: NFPA 96 requires the use of a ventilated roof curb, grease trap, clean-out port, and hinge kit in restaurant applications; for NFPA 96 accessories, see page 2962.

WARNING: Do not use a damper in any kitchen installation.

High-Pressure—Specifically designed for applications that have high static pressure.

Disconnect Switch Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400
	3	7 ½	1H401
NEMA 4	2	2	1H408
	3	7 ½	1H409

RECOMMENDED ACCESSORIES

Wheel Dia.	Shaft Dia. Wheel End	Dimensions A	B	C	D	Nonkitchen Dampers†† Size (in.)	Item No.	Ventilated UL 762 Kitchen Roof Curbs Fixed Item No.	Adj. Item No.	Nonventilated Roof Curbs Fixed 12"H Item No.	Adj. 12"H Item No.	Item No.
Exhaust Ventilators Without Drive Package**												
11 in	¾ in	19"	24 ⅞"	25 ⅛"	17 ⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**20FT14**
11 ¼ in		19"	24 ⅞"	25 ⅛"	17 ⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**16D522**
		22"	24 ⅞"	25 ⅛"	17 ⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**4YY14**
12 ½ in		19"	24 ⅞"	25 ⅛"	17 ⅜"	12 X 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**16D523**
13 ¼ in		22"	24 ⅞"	25 ⅛"	17 ⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**4YY15**
14 ¾ in		22"	28 ⅞"	26 ⅜"	19 ⅜"	15 X 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**16D524**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**4YY16**
16 ½ in		22"	28 ⅞"	26 ⅜"	19 ⅜"	15 X 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**16D525**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**4YY17**
18 ½ in		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**4YY18**
21 ¼ in		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**4YY19**
24 ½ in	1 in	34"	42 ¾"	39 ½"	25 ½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**4YY20**
30 ½ in		40"	50"	40"	29 ¼"	27 X 27	4HX68	—	—	24Y860	2ZV84	**16D526**
		42"	50"	40"	29 ¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**4YY21**
36 in	1 ¼ in	46"	58 ⅝"	44 ⅝"	29 ⁷⁄₁₆"	39 x 39	4HX70	4HX60	4HX63	2RB82	2ZV85	**4YY22**
High-Pressure Exhaust Ventilators Without Drive Package**												
14 ¾ in	¾ in	26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**2RB66**
16 ½ in		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**1MBF1**
18 ½ in		30"	35 ⅜"	28 ⅝"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	3C438	**52CD32**
21 ¼ in	1 in	30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**1MBF2**
24 ½ in		34"	42 ¾"	33 ⅞"	25 ½"	27 x 27	4HX68	4HX58	4HX63	2RB80	3C438	**52CD34**
30 ½ in		40"	50"	36"	29"	27 x 27	4HX68	4HX59	4HX63	2RB81	3C438	**52CD35**
Exhaust Ventilators												
11 in	¾ in	19"	24 ⅞"	28 ¼"	17 ⅜"	12 x 12	4HX64	4HX54	4HX61	2RB75	2ZV82	**20FT09**
11 ¼ in		22"	24 ⅞"	25 ⅛"	17 ⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**1MBE7**
13 ¼ in		22"	24 ⅞"	25 ⅛"	17 ⅜"	15 x 15	4HX65	4HX55	4HX61	2RB76	2ZV82	**1MBE8**
14 ¾ in		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATT8**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATT9**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU1**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**5PV06**
16 ½ in		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**1MBE9**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU2**
		26"	28 ⅞"	26 ⅜"	19 ⅜"	19 x 19	4HX66	4HX56	4HX62	2RB77	2ZV83	**3ATU3**
18 ½ in		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU4**
		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU5**
		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU6**
		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**5PV07**
21 ¼ in		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU7**
		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**3ATU8**
		30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	4HX57	4HX62	2RB79	2ZV83	**5PV08**
24 ½ in	1 in	34"	42 ¾"	39 ½"	25 ½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3ATU9**
		34"	42 ¾"	39 ½"	25 ½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3ATV1**
		34"	42 ¾"	39 ½"	25 ½"	27 x 27	4HX68	4HX58	4HX63	2RB80	2ZV84	**3GY73**
30 ½ in		42"	50"	40"	29 ¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**3ATV2**
		42"	50"	40"	29 ¼"	35 x 35	4HX69	4HX59	4HX63	2RB81	2ZV85	**3GY74**

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	Complete with Drive Package, Unassembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Unassembled** 3-Phase Motors 208-230/460V Item No.	Complete with Drive Package, Assembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Assembled** 3-Phase Motors 208-230/460V Item No.	Without Drive Package** Item No.
Exhaust Ventilators															
11"	833	665	408	—	—	—	⅙	1140	0.07	6.3	**7DF66**	—	—	—	**20FT14**
	1260	1156	1041	918	759	—	¼	1725	0.25	13.4	**7DF67**	—	**20FT09**	—	
11¼"	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	**7AX02** ‡	—	—	—	**16D522** ‡
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	**7AX03** ‡	—	—	—	
	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	**7A593**	—	—	—	**4YY14**
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	**7A594**	—	**1MBE7**	—	
12½"	1665	1528	1398	1224	968	—	¼	1410	0.26	12.2	**7AX04** ‡	—	—	—	**16D523** ‡
	1824	1699	1580	1441	1262	—	⅓	1545	0.34	14.0	**7AX05** ‡	—	—	—	
	2037	1923	1816	1710	1571	1176	½	1725	0.48	16.7	**7AX06** ‡	**7AX07** ‡	—	—	
13¼"	1790	1629	1458	1201	—	—	¼	1305	0.26	13.9	**7A615**	—	—	—	**4YY15**
	1968	1822	1671	1479	1198	—	⅓	1435	0.35	15.1	**7A616**	—	—	—	
	2256	2128	2001	1864	1684	—	½	1645	0.52	17.4	**7A617**	**7A690**	**1MBE8**	—	
14¾"	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	**7AX08** ‡	—	—	—	**16D524** ‡
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	**7AX09** ‡	—	—	—	
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	**7AX10** ‡	**7AX13** ‡	—	—	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	**7AX11** ‡	**7AX14** ‡	—	—	
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	**7AX12** ‡	**7AX15** ‡	—	—	
	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	**7A618**	—	—	—	**4YY16**
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	**7A619**	—	—	—	
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	**7A620**	**7A691**	**3ATT8**	—	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	**7A621**	**7A692**	**5PV06**	—	
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	**7A622**	**7A693**	**3ATT9**	**3ATU1**	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. ††Nonkitchen dampers are not for use with any kitchen exhaust applications.*

CONTINUED

CONTINUED

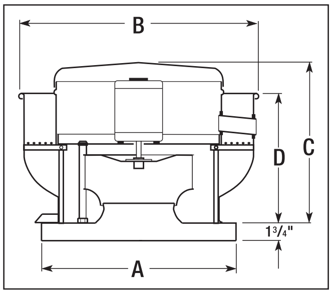
Centrifugal Belt-Drive Upblast Exhaust Ventilators

Dayton® amca CERTIFIED RATINGS SOUND AND AIR PERFORMANCE

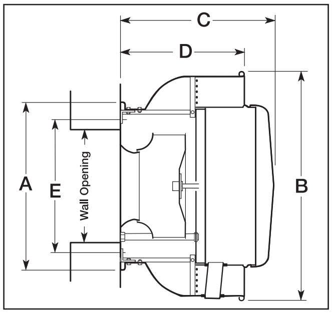
Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	Complete with Drive Package, Unassembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Unassembled** 3-Phase Motors 208-230/460V Item No.	Complete with Drive Package, Assembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Assembled** 3-Phase Motors 208-230/460V Item No.	Without Drive Package** Item No.
Exhaust Ventilators (Cont.)															
16½"	2515	2177	1744	—	—	—	¼	875	0.26	10.1	7AX16 ‡	—	—	—	16D525 ‡
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	7AX17 ‡	—	—	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	7AX18 ‡	7AX21 ‡	—	—	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	7AX19 ‡	7AX22 ‡	—	—	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	7AX20 ‡	7AX23 ‡	—	—	
	2515	2177	1744	—	—	—	¼	875	0.26	10.1	7YR05	—	—	—	4YY17
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	7A623	—	—	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	7A624	7A694	—	—	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	7A625	7A695	3ATU2	—	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	7A626	7A696	1MBE9	3ATU3	
18½"	2815	2448	1763	—	—	—	¼	745	0.26	8.1	7YR06	—	—	—	4YY18
	3098	2759	2257	—	—	—	⅓	820	0.34	10.0	7A627	—	—	—	
	3551	3243	2879	2363	—	—	½	940	0.52	13.1	7A628	7A697	—	—	
	4061	3786	3554	3141	2652	—	¾	1075	0.78	15.8	7A629	7A698	3ATU4	—	
	4477	4224	4005	3703	3336	—	1	1185	1.04	17.1	7A630	7A699	5PV07	—	
	5138	4913	4710	4532	4232	3537	1½	1360	1.58	22	7A631	7A700	3ATU5	3ATU6	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	7A701	—	—	
21¼"	3403	2675	—	—	—	—	¼	605	0.26	6.7	7YR07	—	—	—	4YY19
	3740	3096	2073	—	—	—	⅓	665	0.35	8.1	7A632	—	—	—	
	4275	3718	3048	—	—	—	½	760	0.52	10.9	7A633	7A702	—	—	
	4922	4439	3922	3240	—	—	¾	875	0.79	15.2	7A634	7A703	—	—	
	5400	4958	4508	3985	3169	—	1	960	1.04	17.7	7A635	7A704	3ATU7	—	
	6187	5798	5421	5006	4529	—	1½	1100	1.57	23	7A636	7A705	5PV08	—	
	6806	6451	6108	5748	5350	4289	2	1210	2.10	23	—	7A706	—	3ATU8	
24½"	4216	3188	—	—	—	—	¼	465	0.26	6.3	7YR08	—	—	—	4YY20
	4623	3717	—	—	—	—	⅓	510	0.34	7.3	7A637	—	—	—	
	5303	4540	3565	—	—	—	½	585	0.52	9.5	7A638	7A707	—	—	
	6074	5461	4659	3524	—	—	¾	670	0.79	12.8	7A639	7A708	—	—	
	6663	6133	5409	4618	—	—	1	735	1.04	15.5	7A640	7A709	—	—	
	7660	7184	6615	6002	5282	—	1½	845	1.57	18.6	7A641	7A710	3ATU9	—	
	8431	7985	7536	6953	6375	4324	2	930	2.10	23	—	7A711	—	3GY73	
	9519	9107	8775	8267	7766	6672	3	1050	3.00	31	—	7D491	—	3ATV1	
30½"	6835	5660	5440	—	—	—	½	420	0.52	7.5	7AX25 ‡	7AX29 ‡	—	—	16D526 ‡
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	7AX26 ‡	7AX30 ‡	—	—	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	7AX27 ‡	7AX31 ‡	—	—	
	9845	9127	8226	7084	—	—	1½	605	1.55	15.7	7AX28 ‡	7AX32 ‡	—	—	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	7AX33 ‡	—	—	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	7AX34 ‡	—	—	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	7AX35 ‡	—	—	
	5940	4464	—	—	—	—	⅓	365	0.34	5.7	7YR09	—	—	—	4YY21
	6835	5660	—	—	—	—	½	420	0.52	7.5	7A642	7A712	—	—	
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	7A643	7A713	—	—	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	7A644	7A714	—	—	
	9845	9127	8226	7084	—	—	1½	605	1.55	15.7	7A645	7A715	—	—	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	7A716	—	—	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	7A717	—	3GY74	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	7A718	—	3ATV2	
36"	8631	6755	—	—	—	—	½	320	0.52	6.0	7YR10	—	—	—	4YY22
	10,789	9426	7575	—	—	—	1	400	1.02	11.1	7A647	7A720	—	—	
	12,408	11,281	9814	7809	—	—	1½	460	1.55	15.8	7A648	7A721	—	—	
	13,621	12,602	11,359	9878	—	—	2	505	2.06	19.8	—	7A722	—	—	
	15,644	14,769	13,783	12,597	11,287	—	3	580	3.13	23	—	7A723	—	—	
	18,611	17,884	17,115	16,236	15,243	12,985	5	690	5.26	28	—	7A724	—	—	

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.500"	0.750"	1.000"	1.250"	1.500"	1.750"	Motor HP	RPM	Max. BHP†	Sones @ 0.500" SP @ 5 ft.#	Complete with Drive Package, Unassembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Unassembled** 3-Phase Motors 208-230/460V Item No.	Without Drive Package** Item No.
High-Pressure Exhaust Ventilators													
14¾"	1016	920	798	642	—	—	¼	1465	0.26	14.2	7M7U1	—	2RB66
	1146	1063	965	846	704	—	⅓	1605	0.34	15.2	7M7U2	—	
	1363	1292	1219	1137	1042	924	½	1845	0.52	17.0	7M7U3	7M7U5	
	1592	1536	1473	1409	1341	1262	¾	2110	0.78	19.8	7M7U4	7M7U6	
16½"	2053	1897	1724	1513	—	—	½	1340	0.52	14.4	7YR13	7YR14	1MBF1
	2433	2301	2165	2015	1855	1638	¾	1535	0.74	18.1	7YR15	7YR16	
	2722	2611	2488	2365	2228	2082	1	1690	1.05	21	7YR17	7YR18	
18"	2104	1688	—	—	—	—	⅓	1725	0.35	10.8	65DG57	—	52CD32
	2581	2323	1933	—	—	—	½	1725	0.53	14.1	65DG58	65DG62	
	3063	2868	2626	—	1854	—	¾	1725	0.78	15.4	65DG59	65DG63	
	3441	3261	3075	—	2523	—	1	1725	1.04	19.0	65DG60	65DG64	
	4035	3884	3728	—	3376	—	1 ½	1725	1.57	24.0	65DG61	65DG65	
	4495	4369	4226	—	3945	—	2	1745	2.08	28.0	—	65DG66	
21¼"	3397	3067	2637	–	—	—	¾	1010	0.79	14.5	7YR20	7YR21	1MBF2
	3851	3561	3242	2806	—	—	1	1110	1.04	16.9	7YR22	7YR23	
	4558	4312	4055	3789	3433	2944	1 ½	1270	1.56	22	7YR24	7YR25	
	5110	4898	4674	4436	4195	3880	2	1400	2.09	24	—	7YR26	
	5943	5775	5581	5385	5182	4971	3	1600	3.13	29	—	7YR27	
24"	3105	2405	—	—	—	—	½	1725	0.51	9.7	65DG67	65DG71	52CD34
	3902	3427	2716	—	—	—	¾	1725	0.78	13.4	65DG68	65DG72	
	4459	4075	3578	—	—	—	1	1725	1.05	15.0	65DG69	65DG73	
	5281	4988	4642	—	3674	—	1 ½	1725	1.57	19.1	65DG70	65DG74	
	5920	5678	5390	—	4679	—	2	1725	2.10	23.0	—	65DG75	
30½"	3639	—	—	—	—	—	½	1725	0.52	8.0	65DG86	65DG90	52CD35
	4788	3651	—	—	—	—	¾	1725	0.78	10.5	65DG87	65DG91	
	5549	4731	—	—	—	—	1	1725	1.03	12.6	65DG88	65DG92	
	6741	6149	5390	—	—	—	1 ½	1725	1.57	16.3	65DG89	65DG93	
	7613	7107	6535	—	4684	—	2	1725	2.09	18.8	—	65DG94	
	9014	8603	8150	—	7062	—	3	1725	3.15	23.0	—	65DG95	
	10,909	10,570	10,222	—	9455	—	5	1725	5.17	36.0	—	65DG96	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. ††Nonkitchen dampers are not for use with any kitchen exhaust applications.*



Roof-Mount



Wall-Mount (Round Mounting Plate Incl.)

Dayton

Centrifugal Direct-Drive Upblast Exhaust Ventilators

- Aluminum, backward-inclined wheel
- Motor, drive frame, and blower wheel isolated from mounting base
- Motor compartment isolated from contaminated air
- NEMA 1 junction box in motor enclosure (Hazardous units have NEMA 7 & 9 disconnect switch)

Note: Additional sizes available on Grainger.com. Speed controllers available for 115V units only; see page 2955. For kitchen application, check with local code authorities for minimum duct velocities. Do not use dampers in any kitchen application. NFPA 96.

EC Motor—Electronically commutated motor can provide up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed controls allow manual fan speed adjustment from remote location; see page 2955.

3-Speed—Speed controllable on any RPM providing 30% useable turndown. UL 705 Listed for Power Ventilators.

1-Speed—UL 762 Listed Restaurant Exhaust Appliances (YZHW), except hazardous units.

Roof-Mount Item No.	Wheel Dia.	Roof-Mount Dimensions A	B	C	D	Recommended Roof Curb: Ventilated UL 762 Kitchen Fixed Item No.	Recommended Roof Curb: Nonventilated 12"H Fixed Item No.
5DVN6*,5DVN8*	8¼"	19"	18⅜"	13½"	11⅜"	—	2RB75
48C179*	11"	19"	21"	13⅜"	11½"	—	2RB75
5DVP0*,5DVP4*,48C179*	11"	19"	21"	13⅜"	11½"	—	2RB75
5DVP6*	11"	19"	21"	15¼"	13⅜"	—	2RB75
20FT10,20FT11	11"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
52CD36	11"	19"	24⅞"	22"	17⅜"	4HX54	4HX46
4HZ40,4HZ41,5DVR2	11"	22"	24⅞"	22"	17⅜"	4HX55	2RB76
48C180	12½"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
5DVP8	12½"	22"	24⅞"	23¾"	17⅜"	4HX55	2RB76
48C181,36WG76	13¼"	19"	24⅞"	28¼"	17⅜"	4HX54	2RB75
4HZ44,4HZ45	13¼"	22"	24⅞"	23¾"	17⅜"	4HX55	2RB76
4HZ48,4HZ49,5DVR3,36WG77	14¾"	26"	28⅞"	24¾"	19⅜"	4HX56	2RB77
52CD37	14¾"	26"	28⅞"	24¾"	19⅜"	4HX56	4HX48
4HZ52,4HZ53,5DVR4,6KWH7,36WG78	16½"	26"	28⅞"	27⅛"	19⅜"	4HX56	2RB77
52CD38	16½"	26"	28⅞"	27⅛"	19⅜"	4HX56	4HX48
48C182,36WG79	18½"	30"	35⅜"	28⅝"	21"	4HX57	2RB79
4HZ56,4HZ57,6KWH8	18½"	30"	35⅜"	28⅝"	21"	4HX57	2RB79
5DVR0	21¼"	30"	35⅜"	28⅝"	21"	4HX57	2RB79

Wall-Mount Item No.	Wheel Dia.	Wall-Mount Dimensions A	B	C	D	E
5DVN7*,5DVN9*	8¼"	14¾"	18⅜"	13½"	11⅜"	11¾"
48C184*	11"	17⅞"	21"	13⅜"	11½"	15"
5DVP1*,5DVP5*	11"	17⅞"	21"	13⅜"	11½"	15"
5DVP7*	11"	17⅞"	21"	15¼"	13⅜"	15"
20FT12,20FT13,20UD15	11"	19¾"	24⅞"	22"	17⅜"	16⅞"
52CD39	11"	19¾"	24⅞"	22"	17⅜"	16⅞"
4HZ42,4HZ43,6KWH9,6KWJ3*	11"	19¾"	24⅞"	22"	17⅜"	16⅞"
48C185	12½"	19¾"	24⅞"	28¼"	17⅜"	16⅞"
5DVP9	12½"	19¾"	24⅞"	23¾"	17⅜"	16⅞"
48C186,36WG80	13¼"	19¾"	24⅞"	28¼"	17⅜"	16⅞"
4HZ46,4HZ47	13¼"	19¾"	24⅞"	23¾"	17⅜"	16⅞"
4HZ50,4HZ51,6KWJ0,36WG81	14¾"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
52CD40	14¾"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
4HZ54,4HZ55,6KWJ1,36WG82	16½"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
52CD41	16½"	22⅛"	28⅞"	24¾"	19⅜"	19⅜"
48C187,36WG83	18½"	27¾"	35⅜"	28⅝"	21"	25"
4HZ58,4HZ59	18½"	27¾"	35⅜"	28⅝"	21"	25"
5DVR1	21¼"	27¾"	35⅜"	28⅝"	21"	25"

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown** 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Motor HP	Motor RPM	Max. BHP	Sones @ 0.250" SP @ 5 ft.#	ROOF-MOUNT 1-Phase Motor 115V Item No.	WALL-MOUNT 1-Phase Motor 115V Item No.	ROOF-MOUNT 1-Phase Motor 208-230V Item No.	WALL-MOUNT 1-Phase Motor 208-230V Item No.
EC Motor, Variable-Speed, For General Clean Air with Inlet Temps. up to 130°F															
	450	324	—	—	—	—	—		860	0.02	—				
11"	596	505	395	—	—	—	—	⅙	1140	0.04	4.6	**48C179**	**48C184**	**—**	**—**
	903	842	782	722	652	420	—		1725	0.12	9.4				
EC Motor, Variable-Speed, For Contaminated Air with Inlet Temps. up to 300°F															
	732	625	481	—	—	—	—		860	0.04	0.6				
11"	970	897	806	707	—	—	—	¼	1140	0.09	6.5	**5DVR2**	**6KWH9**	**—**	**—**
	1468	1422	1373	1315	1255	1129	970		1725	0.29	12.5				
					419	350	—		1300	0.067					
11"	—	—	—	—	688	610	520	½	1900	0.21	—	**52CD36**	**52CD39**	**—**	**—**
					977	929	878		2500	0.48					
	1015	905	781	581	—	—	—		860	0.06	5.6				
12½"	1346	1261	1180	1091	981	—	—	½	1140	0.14	8.2	**48C180**	**48C185**	**—**	**—**
	2037	1979	1923	1869	1816	1710	1571		1725	0.48	16.7				
	1180	1057	914	675	—	—	—		860	0.08	7.7				
13¼"	1564	1471	1379	1280	1144	—	—	¾	1140	0.17	11.8	**48C181**	**48C186**	**36WG76**	**36WG80**
	2366	2305	2244	2183	2122	1994	1838		1725	0.60	18.4				
	1902	1800	1680	1540	1372	—	—		1050	0.22	9.8				
14¾"	2355	2277	2186	2086	1979	1717	1269	¾	1300	0.43	12.8	**5DVR3**	**6KWJ0**	**36WG77**	**36WG81**
	2808	2743	2671	2594	2509	2329	2110		1550	0.72	17.5				
					833	700	492		1275	0.017					
14¾"	—	—	—	—	1256	1178	1098	¾	1725	0.43	—	**52CD37**	**52CD40**	**—**	**—**
					1669	1617	1557		2200	0.89					
	1581	1303	—	—	—	—	—		550	0.07	—				
16½"	2472	2315	2126	1918	1680	—	—	¾	860	0.25	9.9	**5DVR4**	**6KWJ1**	**36WG78**	**36WG82**
	3277	3161	3035	2896	2745	2421	1983		1140	0.58	14.8				
					1487	1252	—		1065	0.26					
16½"	—	—	—	—	2053	1897	1724	1	1340	0.521	—	**52CD38**	**52CD41**	**—**	**—**
					2787	2680	2560		1725	1.12					
	2815	2617	2448	2143	1763	—	—		745	0.26	8.1				
18½"	3249	3074	2922	2732	2474	—	—	1	860	0.40	11.1	**48C182**	**48C187**	**36WG79**	**36WG83**
	3778	3625	3486	3362	3190	2738	—		1000	0.63	14.7				

** Not for use with any kitchen exhaust applications. ** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

CONTINUED

CONTINUED

Dayton®

AMCA Certified Ratings — Sound and Air Performance

Centrifugal Direct-Drive Upblast Exhaust Ventilators

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown** 0.000"	0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Motor HP	Motor RPM	Max. Operating Amps	Volts 60 Hz	Max. BHP	Speed Control	Sones @ 0.250" SP @ 5 ft.#	ROOF-MOUNT Item No.	WALL-MOUNT Item No.
3-Speed, For General Clean Air with Inlet Air Temps. up to 130°F																
	133	81	—	—	—	—	—		1050			0.01		—		
8¼"	165	126	70	—	—	—	—	1/60	1300	0.68/0.77/1.00	115	0.01	48C172	2.5	**5DVN6**	**5DVN7**
	197	164	128	—	—	—	—		1550			0.02		4.0		
	250	171	—	—	—	—	—		1050			0.01		—		
8¼"	309	255	152	—	—	—	—	1/30	1300	1.00/0.77/0.68	115	0.02	48C172	2.4	**5DVN8**	**5DVN9**
	369	325	269	160	—	—	—		1550			0.03		4.7		
	325	247	133	—	—	—	—		1050			0.02		4.2		
11"	403	343	272	173	—	—	—	1/20	1300	1.48/1.82/2.44	115	0.03	48C172	5.5	**5DVP0**	**5DVP1**
	480	431	376	314	235	—	—		1550			0.05		7.2		
	549	451	306	—	—	—	—		1050			0.03		4.2		
11"	680	600	517	391	—	—	—	1/15	1300	1.48/1.82/2.44	115	0.05	48C172	5.4	**5DVP4**	**5DVP5**
	811	744	677	604	501	—	—		1550			0.09		7.5		
	711	570	381	—	—	—	—		1050			0.04		4.5		
11"	880	774	641	484	199	—	—	⅛	1300	1.5/2.0/2.6	115	0.07	48C172	6.4	**5DVP6**	**5DVP7**
	1049	964	861	747	616	—	—		1550			0.12		8.5		
1-Speed, 3-Phase, For Contaminated Air with Inlet Temps. up to 300°F																
16½"	3277	3161	3035	2896	2745	2421	1983	¾	1140	2.8-2.8/1.4	208/230/460	0.58	—	14.8	**6KWH7**	—
18½"	4307	4173	4045	3927	3822	3470	3072	1	1140	3.8-3.5/1.7	208/230/460	0.93	—	16.5	**6KWH8**	—
21¼"	6412	6224	6036	5855	5674	5283	4837	2	1140	6.2/3.1	208/230/460	1.74	—	23	**5DVR0**	**5DVR1**
1-Speed, Hazardous Location, For Contaminated Air with Inlet Temps. up to 300°F																
11"	1468	1422	1373	1315	1255	1129	970	¼	1725	4.0/2.0-2.0	115/208/230	0.29	—	12.5	—	**6KWJ3**
11"	1260	1209	1156	1100	1041	918	759	¼	1725	4.0/2.0/2.0	115/208/230	0.25	—	13.4	—	**20FT15**
1-Speed, Single Phase, For Contaminated Air with Inlet Temps. up to 300°F																
11"	833	754	665	565	408	—	—	⅙	1140	2.7	115	0.07	48C172	6.3	**20FT10**	**20FT12**
11"	970	897	806	707	—	—	—	⅙	1140	2.7	115	0.09	48C172	6.5	**4HZ40**	**4HZ42**
11"	1260	1209	1156	1100	1041	918	759	¼	1725	5.0	115	0.25	48C172	13.4	**20FT11**	**20FT13**
11"	1468	1422	1373	1315	1255	1129	970	¼	1725	5.0	115	0.29	48C172	12.5	**4HZ41**	**4HZ43**
12½"	2037	1979	1923	1869	1816	1710	1571	½	1725	7.5	115/230	0.48	48C173	16.7	**5DVP8**	**5DVP9**
13¼"	1180	1057	914	675	—	—	—	⅛	860	2.7	115	0.07	48C172	7.7	**4HZ44**	**4HZ46**
13¼"	2366	2305	2244	2183	2122	1994	1838	¾	1725	10.6/5.3	115/230	0.6	—	18.4	**4HZ45**	**4HZ47**
14¾"	1558	1427	1264	1034	—	—	—	⅛	860	2.1	115	0.12	48C172	7.1	**4HZ48**	**4HZ50**
14¾"	2065	1973	1864	1745	1605	1167	—	¼	1140	3.2	115	0.29	48C172	11.0	**4HZ49**	**4HZ51**
16½"	2472	2315	2126	1918	1680	—	—	¼	860	5.0	115	0.25	48C172	9.9	**4HZ52**	**4HZ54**
16½"	3277	3161	3035	2896	2745	2421	1983	¾	1140	8.0/4.0	115/230	0.58	48C173	14.8	**4HZ53**	**4HZ55**
18½"	3249	3074	2922	2732	2474	1608	—	½	860	11.6	115/230	0.4	—	11.1	**4HZ56**	**4HZ58**
18½"	4307	4173	4045	3927	3822	3470	3072	1	1140	11.4/5.7	115/230	0.93	—	16.5	**4HZ57**	**4HZ59**

** Not for use with any kitchen exhaust applications. ** Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.*

Speed Controls For Direct-Drive Fans & Ventilators

Dayton®

48C172 and 48C173 can operate multiple direct-drive fans if total amp draw does not exceed control's amp rating. 43Y140 includes transformer and hardware. 35YV92 allows fan to operate between 2 speeds with SPDT switch or relay.

Type	Max. Amps	Voltage	Plate Color	Item No.
Solid State Speed Controls				
Rotary	6 A	115V	Silver	**48C172**
Rotary	10 A	115V	Silver	**48C173**
EC Motor Speed Controls*				
Remote Dial Assembly	0.5/0.25 A	115/230V	Silver	**43Y140**
Touch Remote with Countdown Timer and LED display	0.5/0.25 A	115/230V	White	**35YV94**
2-Speed	0.5/0.25 A	115/230V	Gray	**35YV92**

** Can only be used with Dayton EC motor fans.*

48C172

43Y140

35YV94

Commercial Kitchen Exhaust Hoods

Dayton®

- 430 stainless steel construction
- Hoods are NSF Standard 2 Certified

Grease Hoods—Type I wall canopy hoods are used above grease-producing appliances such as fryers and griddles. Hoods feature integral 3" airspace for clearance to limited combustible materials. Each includes aluminum baffle grease filters, incandescent light fixtures, ½-pt. grease cup, hanger brackets, and exhaust collars. Rated for 600ºF maximum cooking operation temperature. UL and C-UL 710 Listed.

Condensation Hoods—Type II wall canopy hoods are used above moisture-producing appliances, such as dishwashers. Hoods include condensate baffles, gutter, ½" drain connection, hanger brackets, and exhaust collars.

Heat Hoods—Type II wall canopy hoods are used above heat-producing appliances (without grease) such as ovens. Hoods include hanger brackets and exhaust collars.

L	W	H	Item No.
Grease Hoods			
48"	54"	24"	**20UD05**
60"	54"	24"	**20UD06**
72"	54"	24"	**6KWK8**
96"	54"	24"	**6KWK9**
120"	54"	24"	**6KWL0**
144"	54"	24"	**6KWL1**

L	W	H	Item No.
Condensation Hoods			
48"	48"	24"	**20UD10**
60"	48"	24"	**20UD11**
72"	48"	24"	**20UD12**
Heat Hoods			
48"	48"	24"	**20UD07**
60"	54"	24"	**20UD08**
72"	48"	24"	**20UD09**

Air Supply Plenums—Introduce make up air to space near exhaust hood, minimizing the need to heat or cool make up air. Perforated panels evenly distribute airflow.

End Skirts—Mount on the sides of the exhaust hood to improve hood capture performance.

Digital Temp. Interlocks—Required by International Mechanical Code 507.2.1.1 on Type I grease exhaust hoods. Interlock automatically starts the exhaust fan when cooking occurs. Includes one temp. sensor. UL approved quick-seal for hood penetration and temp. controller.

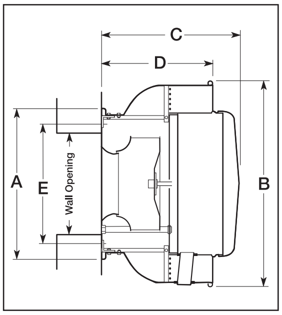
Description	Item No.
Grease Hood Accessories	
Air Supply Plenum, For Use With 20UD05	**20UD13**
Air Supply Plenum, For Use With 20UD06	**20UD14**
Air Supply Plenum, For Use With 6KWK8	**6KWL2**
Air Supply Plenum, For Use With 6KWK9	**6KWL3**
Air Supply Plenum, For Use With 6KWL0	**6KWL4**
Air Supply Plenum, For Use With 6KWL1	**6KWL5**
End Skirts, Left & Right	**6KWL6**
Digital Temp. Interlock, For Use With 6KWK8, 6KWK9, 6KWL0	**48C175**
Digital Temp. Interlock, For Use With 6KWL1	**48C176**
Replacement Digital Temp. Interlock Sensor	**48C177**
Grease Filter, For Use With 6KWK8, 6KWK9, 6KWL1, 20UD05	**35PA91**
Grease Filter, For Use With 6KWK8, 6KWL0, 6KWL1, 20UD06	**35PA92**

6KWK8

48C175

Grease Filters—Collect grease on the interior walls of the filter and then drains into the kitchen hood grease cup. Designed to remove up to 69% of grease particles.

Find more information on Commercial Kitchen Exhaust and Supply Ventilator selection on page 3105.



Centrifugal Belt-Drive Upblast Exhaust Ventilators

- Wall mount applications
- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box located in motor enclosure
- Max. inlet air temp.: 300°F
- UL 762 Listed Restaurant Exhaust Appliances

Designed for use in restaurants, schools, commercial, and industrial applications to exhaust contaminated air from kitchen range hoods. 1-pc. rolled aluminum windband fully welded to the base creates a virtually leakproof seal between the ventilator and the mounting surface. Internal steel support braces; round mounting plate included. Motor, drive frame, and blower wheel are isolated from the mounting base by the use of independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is isolated from the contaminated air stream and is cooled by outside air pulled in through an oversized breather tube by the spinning action of the wheel.

Round-to-Square Base Adapters—Designed to adapt a standard round fan base to an existing square installation. Allows an existing installation to be used when replacing a ventilator. Constructed of galvanized steel. Flange surface is 1¾".

Wall-Mount
(Round Mounting Plate Incl.)

Item No.	Wheel Dia.	Shaft Dia. Wheel End	Dimensions A	B	C	D	E	Non-Kitchen Damper ‡ Size	Item No.	Round-to-Square Adapter Item No.
20FT16	11"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅞"	12 x 12	4HX74	6KWJ5
5DVL6	11¼"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅞"	12 x 12	4HX74	
5DVL7	12½"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅞"	12 x 12	4HX74	
5DVL8	13¼"	¾"	19¾"	24⅞"	25⅛"	17⅜"	16⅞"	12 x 12	4HX74	
5DVL9	14¾"	¾"	22⅛"	28⅞"	26⅜"	19⅜"	19⅜"	15 x 15	4HX77	6KWJ6
5DVN0	16½"	¾"	22⅛"	28⅞"	26⅜"	19⅜"	19⅜"	15 x 15	4HX77	
5DVN1	18½"	¾"	27¾"	35⅜"	34¾"	21"	25"	17 x 17	—	6KWJ7
5DVN2	21¼"	¾"	27¾"	35⅜"	34¾"	21"	25"	17 x 17	—	
5DVN3	22¾"	1"	31¼"	42¾"	39½"	25½"	28⅜"	20 x 20	—	6KWJ8
5DVN4	24½"	1"	31¼"	42¾"	39½"	25½"	28⅜"	20 x 20	—	
5DVN5	30½"	1"	38⅜"	50"	40"	29¼"	35¾"	25 x 25	—	—

‡ Not for use with any kitchen exhaust applications.

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP - Roof Ventilators	RPM	Max. BHP†	Sones @ 0.25" SP @ 5 ft. SP#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase 115/230V Item No.	3-Phase 208-240/440V Item No.	WITHOUT DRIVE PACKAGE** Item No.
11"	833	665	408	—	—	—	⅙	1140	0.07	6.3	**7DF68**	—	**20FT16**
	1260	1156	1041	918	759	—	¼	1725	0.25	13.4	**7DF69**	—	
11¼"	1413	1313	1189	1056	861	—	¼	1660	0.26	12.0	**7AR95**	—	**5DVL6**
	1549	1459	1350	1234	1106	—	⅓	1820	0.35	13.4	**7AR96**	—	
12½"	1665	1528	1398	1224	968	—	¼	1410	0.26	12.2	**7AR97**	—	**5DVL7**
	1824	1699	1580	1441	1262	—	⅓	1545	0.34	14.0	**7AR98**	—	
	2037	1923	1816	1710	1571	1176	½	1725	0.48	16.7	**7AR99**	**7AT00**	
13¼"	1790	1629	1458	1201	—	—	¼	1305	0.26	13.9	**7AT01**	—	**5DVL8**
	1968	1822	1671	1479	1198	—	⅓	1435	0.35	15.1	**7AT02**	—	
	2256	2128	2001	1864	1684	—	½	1645	0.52	17.4	**7AT03**	**7AT04**	
14¾"	2001	1793	1515	998	—	—	¼	1105	0.26	10.6	**7AT05**	—	**5DVL9**
	2192	2006	1773	1443	—	—	⅓	1210	0.34	11.7	**7AT06**	—	
	2518	2362	2174	1949	1643	—	½	1390	0.52	14.2	**7AT07**	**7AT08**	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	**7AT09**	**7AT10**	
	3125	3005	2865	2711	2539	2085	1	1725	1.00	22	**7AT11**	**7AT12**	
16½"	2515	2177	1744	—	—	—	¼	875	0.26	10.1	**7AT13**	—	**5DVN0**
	2774	2477	2109	1584	—	—	⅓	965	0.35	11.5	**7AT14**	—	
	3191	2941	2641	2297	1770	—	½	1110	0.54	14.2	**7AT15**	**7AT16**	
	3636	3426	3172	2894	2583	—	¾	1265	0.79	17.7	**7AT17**	**7AT18**	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	**7AT19**	**7AT20**	
18½"	2815	2448	1763	—	—	—	¼	745	0.26	8.1	**7AT21**	—	**5DVN1**
	3098	2759	2257	—	—	—	⅓	820	0.34	10.0	**7AT22**	—	
	3551	3243	2879	2363	—	—	½	940	0.52	13.1	**7AT23**	**7AT24**	
	4061	3786	3554	3141	2652	—	¾	1075	0.78	15.8	**7AT25**	**7AT26**	
	4477	4224	4005	3703	3336	—	1	1185	1.04	17.1	**7AT27**	**7AT28**	
	5138	4913	4710	4532	4232	3537	1 ½	1360	1.58	22	**7AT29**	**7AT30**	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	**7AT31**	
21¼"	3403	2675	—	—	—	—	¼	605	0.26	6.7	**7AT32**	—	**5DVN2**
	3740	3096	2073	—	—	—	⅓	665	0.35	8.1	**7AT33**	—	
	4275	3718	3048	—	—	—	½	760	0.52	10.9	**7AT34**	**7AT35**	
	4922	4439	3922	3240	—	—	¾	875	0.79	15.2	**7AT36**	**7AT37**	
	5400	4958	4508	3985	3169	—	1	960	1.04	17.7	**7AT38**	**7AT39**	
	6187	5798	5421	5006	4529	—	1 ½	1100	1.57	23	**7AT40**	**7AT41**	
	6806	6451	6108	5748	5350	4289	2	1210	2.10	23	—	**7AT42**	
22¾"	3784	2896	—	—	—	—	¼	475	0.26	6.5	**7AT43**	—	**5DVN3**
	4142	3357	—	—	—	—	⅓	520	0.34	7.6	**7AT44**	—	
	4779	4124	3279	—	—	—	½	600	0.52	10.0	**7AT45**	**7AT46**	
	5457	4893	4234	3383	—	—	¾	685	0.78	13.4	**7AT47**	**7AT48**	
	6014	5502	4944	4258	—	—	1	755	1.04	16.3	**7AT49**	**7AT50**	
	6890	6443	5987	5453	4835	—	1 ½	865	1.57	19.3	**7AT51**	**7AT52**	
	7607	7202	6799	6347	5844	4602	2	955	2.11	24	—	**7AT53**	
24½"	4216	3188	—	—	—	—	¼	465	0.26	6.3	**7AT54**	—	**5DVN4**
	4623	3717	—	—	—	—	⅓	510	0.34	7.3	**7AT55**	—	
	5303	4540	3565	—	—	—	½	585	0.52	9.5	**7AT56**	**7AT57**	
	6074	5461	4659	3524	—	—	¾	670	0.79	12.8	**7AT58**	**7AT59**	
	6663	6133	5409	4618	—	—	1	735	1.04	15.5	**7AT60**	**7AT61**	
	7660	7184	6615	6002	5282	—	1 ½	845	1.57	18.6	**7AT62**	**7AT63**	
	8431	7985	7536	6953	6375	4324	2	930	2.10	23	—	**7AT64**	
	9519	9107	8775	8267	7766	6672	3	1050	3.00	31	—	**7AT65**	
30½"	5940	4464	—	—	—	—	⅓	365	0.34	5.7	**7AT66**	—	**5DVN5**
	6835	5660	—	—	—	—	½	420	0.52	7.5	**7AT67**	**7AT68**	
	7811	6844	5440	—	—	—	¾	480	0.77	9.9	**7AT69**	**7AT70**	
	8625	7772	6636	—	—	—	1	530	1.05	12.2	**7AT71**	**7AT72**	
	9845	9127	8226	7084	—	—	1 ½	605	1.55	15.7	**7AT73**	**7AT74**	
	10,822	10,193	9411	8495	7271	—	2	665	2.07	18.6	—	**7AT75**	
	12,449	11,904	11,273	10,554	9743	7352	3	765	3.15	23	—	**7AT76**	
	14,727	14,266	13,788	13,223	12,614	11,191	5	905	5.21	32	—	**7AT77**	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

4YC64

Centrifugal Direct-Drive Downblast Exhaust Ventilators

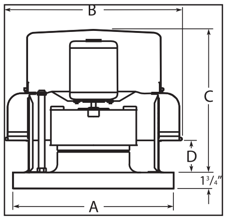
- For general clean air exhaust
- Aluminum backward-inclined, nonoverloading centrifugal wheel design
- Motor compartment isolated from air stream and cooled by outside air
- NEMA 1 junction box
- Max. inlet air temp.: 130°F
- UL-705 Listed for Power Ventilators

EC Motor—Feature electronically commutated (EC) motors for up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed control kits allow manual fan-speed adjustment from a remote location, see page 2955.

3-Speed—Fully controllable on any selected speed. Speed control allows for 30% useable turndown.

1-Speed—Class B insulation and single-speed motors are fully speed controllable at 115V only.

Item No.	Dimensions A	B	C	D	Recommended Damper Size (in.)	Recommended Damper Item No.	Recommended Roof Curb Fixed 12" H Item NO.	Recommended Roof Curb Adj. 12" H Item No.
16D527, 16D529	17"	19 ⅜"	12 ⅛"	3"	9½ x 9½	3TZ50	5EFJ2	2ZV82
16D531, 16D533, 16D534, 48C189	17"	21 ¾"	14 ⅝"	4"	9½ x 9½	3TZ50	5EFJ2	2ZV82
5DVR5, 4YC64	19"	19 ⅜"	12 ⅛"	3"	—	—	2RB75	2ZV82
5DVR7, 5DVR8	19"	21 ¾"	14 ⅝"	4"	—	—	2RB75	4C670
4YC66, 4YC67	19"	21 ¾"	14 ⅝"	4"	12 x 12	4HX64	2RB75	2ZV82
16D535, 16D536	19"	24 ⅜"	23 ¾"	4 ⅜"	12 X 12	4HX64	2RB75	2ZV82
52CD42	22"	24 ⅜"	23 ¾"	—	—	—	2RB75	4C670
16D537, 16D538, 48C190, 38AX30	19"	28 ⅜"	23 ¾"	4"	12 X 12	4HX64	2RB75	2ZV82
5DVR9, 5DVT0, 5DVT2, 6KWK4 to 6KWK6, 4YC68, 4YC69, 5DVT3	22"	24 ⅜"	23 ¾"	4 ⅜"	15 x 15	4HX65	2RB76	2ZV82
4YC71, 5DVT1, 38AX31	22"	28 ⅜"	23 ¾"	4"	15 x 15	4HX65	2RB76	2ZV82
52CD43	22"	28 ⅜"	23 ¾"	—	—	—	2RB76	4C670
5DVT4, 4YC72, 4YC73	26"	28 ⅜"	23 ¾"	4"	19 x 19	4HX66	2RB77	2ZV83
4YC76, 4YC77, 6KWK7, 48C192, 38AX32	30"	35 ½"	28"	5 ½"	23 x 23	4HX67	2RB79	2ZV83



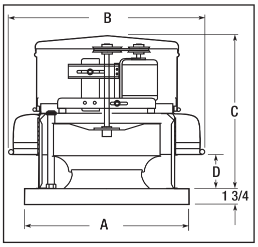
Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Motor HP	RPM	Sones @ 0.250" SP @ 5 ft.#	Speed Control	LARGER BASE 115V, 1- Phase Item No.	SMALLER BASE 115V, 1- Phase Item No.	208-230V, 1- Phase Item No.
EC Motor, Variable-Speed														
8 ¼ in	426 565 855	298 474 794	— 367 735	— — 671	— — 600	— — 522	— — 406	⅙	860 1140 1725	— 4.6 9.4	43Y140	—	**48C189**	—
11 in	729 966 1462	623 883 1405	473 805 1351	— 702 1298	— 507 1250	— — 1193	— — 1126	¼	860 1140 1725	2.9 5.7 11.4	43Y140	**5DVT2**	—	—
11 in	—	—	—	—	342 697 1008	190 569 983	— 521 956	½	1300 1725 2500	—	43Y140	—	**52CD42**	—
13 ¼ in	1043 1383 2093	932 1300 2038	796 1213 1984	580 1112 1928	— 993 1871	— 831 1810	— — 1743	½	860 1140 1725	5.2 8.4 17.0	43Y140	**5DVT3**	—	—
13 ¾ in	1221 1618 2448	1106 1535 2393	962 1444 2338	727 1340 2281	— 1211 2220	— 1031 2159	— — 2089	¾	860 1140 1725	6.3 9.6 16.7	43Y140	—	**48C190**	**38AX30**
13 ¾ in	—	—	—	—	645 1213 1623	323 1173 1593	— 1132 1562	¾	1020 1725 2200	—	43Y140	—	**52CD43**	—
14 ¾ in	1948 2412 2875	1833 2318 2797	1719 2228 2719	1590 2135 2644	1418 2033 2566	1164 1919 2487	— 1777 2396	¾	1050 1300 1550	9.0 12.9 17.4	43Y140	**5DVT4**	—	**38AX31**
18 ½ in	2839 3150 3500	2668 2997 3364	2469 2832 3219	2213 2624 3052	1882 2375 2858	— 2053 2624	— — 2347	1	900 810 730	7.2 8.7 10.9	43Y140	**48C192**	—	**38AX32**

Wheel Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	Motor HP	RPM	Sones @ 0.250" SP @ 5 ft.#	Max. Operating Amps	Volts 60 Hz	Speed Control	LARGER BASE Item No.	SMALLER BASE Item No.
3-Speed															
8 ¼ in	138 170 203	73 125 166	— — 120	— — —	— — —	— — —	— — —	1/60	1050 1300 1550	— — 3.7	0.68 0.77 1	115	48C172	**5DVR5**	**16D527**
8 ¼ in	253 314 374	179 257 327	— 171 274	— — 190	— — —	— — —	— — —	1/30	1050 1300 1550	— 2.6 4.7	0.68 0.77 1	115	48C172	**4YC64**	**16D529**
8 ¼ in	335 415 495	249 348 439	134 272 379	— 174 314	— — 237	— — —	— — —	1/20	1050 1300 1550	4.2 5.5 7.2	1.25 1.57 1.89	115	48C172	**5DVR7**	**16D531**
8 ¼ in	520 644 768	420 565 701	293 478 633	— 373 557	— — 473	— — 338	— — —	1/15	1050 1300 1550	4.2 5.5 7.4	1.48 1.82 2.44	115	48C172	**5DVR8**	**16D533**
10 ½ in	717 888 1059	570 780 969	389 640 863	— 493 745	— 184 623	— — 474	— — —	⅛	1050 1300 1550	4.5 6.4 8.8	1.5 2 2.7	115	48C172	**4YC67**	**16D534**
1-Speed, 1 Phase															
10 ½ in	717	570	389	—	—	—	—	⅛	1050	4.5	2.6	115	48C172	**4YC66**	—
11 in	431	358	216	—	—	—	—	⅛	860	3.4	2.1	115	48C172	**6KWK4**	—
11 in	571	517	460	396	283	—	—	⅙	1140	6.1	2.2	115	48C172	**6KWK5**	—
11 in	864	829	793	756	719	679	640	¼	1725	12.3	5	115	48C172	**6KWK6**	—
11 in	966	883	805	702	507	—	—	⅙	1140	5.7	2.2	115	48C172	**5DVR9**	—
11 in	1462	1405	1351	1298	1250	1193	1126	¼	1725	11.7	3.1	115	48C172	**5DVT0**	**16D535**
13 ¼ in	1043	932	796	580	—	—	—	⅛	860	5.2	2.1	115	48C172	**4YC68**	—
13 ¼ in	2093	2038	1984	1928	1871	1810	1743	⅓	1725	17.0	6	115	48C172	**4YC69**	—
13 ¼ in	2093	2038	1984	1928	1871	1810	1743	½	1725	17.0	6	115	48C172	—	**16D536**
13 ¾ in	1618	1535	1444	1340	1211	1031	—	⅙	1140	9.6	2.2	115	48C172	**5DVT1**	**16D538**
13 ¾ in	2448	2393	2338	2281	2220	2159	2089	½	1725	16.7	6 3	115/230	—	**4YC71** **	**16D537** **
16 ¾ in	1813	1731	1648	1562	1471	1370	1257	⅓	1140	10.4	4.7	115	48C172	**4YC72**	—
16 ¾ in	2540	2344	2145	1913	1596	—	—	¼	860	9.6	5	115	48C172	**4YC73**	—
18 ½ in	3344	3202	3049	2863	2647	2386	2015	⅓	860	9.8	6	115	48C172	**4YC76**	—
18 ½ in	4433	4329	4216	4102	3980	3837	3684	¾	1140	16.8	8 4	115/230	—	**4YC77** **	—
1-Speed, 3 Phase															
18 ½ in	4433	4329	4216	4102	3980	3837	3684	¾	1140	16.8	3.75-3.45 1.7	208/230/460	—	**6KWK7**	—

** Performance certified is for installation type A: free inlet, free outlet. Performance ratings include the effects of a bird screen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. ** 115/230V, speed controllable at 115V only.*

Centrifugal Belt-Drive Downblast Exhaust Ventilators

Dayton



- Aluminum, backward-inclined, nonoverloading centrifugal wheel design
- NEMA 1 junction box located in motor enclosure
- Max. inlet air temp.: 180°F
- UL-705 Listed for Power Ventilators
- Air handling quality bearings meet min. L10-100,000 hr.
- Bearings—units less motor and drive: sealed pillow block up to 16¾" wheel dia., regreasable pillow block for 18½" wheel dia. and larger
- Bearings—assembled units: sealed pillow block up to 18½" wheel dia., regreasable pillow block for 21½" wheel dia. and larger

Designed to meet the general clean air exhaust requirements for industrial and commercial buildings. Rugged and reliable construction makes fan capable of withstanding severe exhaust conditions. Spun aluminum construction features a fully rolled windband bead for increased stability and easy transport. Fresh outside air is drawn in under the motor cover to maximize motor life. Drive frame is internally isolated from the rest of the unit through use of neoprene isolators for long life and quiet operation; no steel-to-steel contact. Motors, sheaves, and belts are packed separately when complete, unassembled ventilator with drive package is ordered.

Disconnect Type	No. of Poles	Max. HP	Item No.	Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400	NEMA 4	2	2	1H408
	3	7½	1H401		3	7½	1H409

Wheel Dia.	Shaft Dia. Wheel End	Dim. A	B	C	D	Recommended Damper Size (in.)	Recommended Damper Item No.	Recommended Roof Curb Fixed 12"H Item No.	Recommended Roof Curb Adj. 12"H Item No.	Item No.
Centrifugal Belt-Drive Downblast Exhaust Ventilators (Without Drive Package)**										
11 in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**4YU92**
11 in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**16D539** ‡
11 in	¾ in	22 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	15 x 15	4HX65	2RB76	2ZV82	**4YU93**
13 ¼ in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**16D540** ‡
13 ¼ in	¾ in	22 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	15 x 15	4HX65	2RB76	2ZV82	**4YU94**
13 ¾ in	¾ in	19 in	28 ⅜ in	25 ⅜ in	4 in	12 x 12	4HX64	2RB75	2ZV82	**16D541** ‡
13 ¾ in	¾ in	22 in	28 ⅜ in	25 ⅜ in	4 in	15 x 15	4HX65	2RB76	2ZV82	**5EFH7**
14 ¾ in	¾ in	22 in	28 ⅜ in	25 ⅜ in	4 in	15 x 15	4HX65	2RB76	2ZV82	**16D542** ‡
14 ¾ in	¾ in	26 in	28 ⅜ in	25 ⅜ in	4 in	19 x 19	4HX66	2RB77	2ZV83	**4YU95**
16 ¾ in	¾ in	22 in	28 ⅜ in	27 ¼ in	4 in	15 x 15	4HX65	2RB76	2ZV82	**16D543** ‡
16 ¾ in	¾ in	26 in	28 ⅜ in	27 ¼ in	4 in	19 x 19	4HX66	2RB77	2ZV83	**4YU96**
18 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**4YU97**
21 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**4YU98**
24 ½ in	1 in	34 in	42 ¾ in	38 ⅜ in	5 ¾ in	27 x 27	4HX68	2RB80	2ZV84	**5EFH8**
24 ½ in	1 in	34 in	42 ¾ in	38 ⅜ in	5 ¾ in	27 x 27	4HX68	2RB80	2ZV84	**4YU99**
26 ½ in	1 in	42 in	50 in	36 in	8 ¼ in	35 x 35	4HX69	2RB81	2ZV85	**5EFH9**
30 ½ in	1 in	40 in	50 in	36 in	8 ¼ in	27 x 27	4HX68	24Y860	2ZV84	**16D544** ‡
30 ½ in	1 in	42 in	50 in	36 in	8 ¼ in	35 x 35	4HX69	2RB81	2ZV85	**4YY10**
33 ½ in	1 ¼ in	46 in	58 ¾ in	38 ½ in	8 ⅞ in	39 x 39	4HX70	2RB82	2ZV85	**5EFJ0**
36 in	1 ¼ in	46 in	58 ¾ in	38 ½ in	8 ⅞ in	39 x 39	4HX70	2RB82	2ZV85	**4YY11**
42 in	1 ¼ in	52 in	65 ¼ in	44 in	9 ¾ in	39 x 39	4HX70	5EFJ3	2ZV86	**5EFJ1**
50 in	1 ¼ in	64 in	83 in	50 ¾ in	14 ½ in	50 x 50	4HX71	2RB83	2ZV87	**4YY12**
Centrifugal Belt-Drive Downblast Exhaust Ventilators (With Drive Package)**										
11 in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**2RB59**
11 in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**2RB60**
11 in	¾ in	19 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	12 x 12	4HX64	2RB75	2ZV82	**2RB61**
11 in	¾ in	22 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	15 x 15	4HX65	2RB76	2ZV82	**2RB62**
13 ¼ in	¾ in	22 in	24 ⅜ in	24 ⅞ in	4 ⅜ in	15 x 15	4HX65	2RB76	2ZV82	**2RB63**
14 ¾ in	¾ in	26 in	28 ⅜ in	25 ⅜ in	4 in	19 x 19	4HX66	2RB77	2ZV83	**2RB64**
14 ¾ in	¾ in	26 in	28 ⅜ in	25 ⅜ in	4 in	19 x 19	4HX66	2RB77	2ZV83	**3HFL6**
16 ¾ in	¾ in	26 in	28 ⅜ in	27 ¼ in	4 in	19 x 19	4HX66	2RB77	2ZV83	**3HFL7**
18 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**3GY66**
18 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**3GY70**
21 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**3GY67**
21 ½ in	¾ in	30 in	35 ½ in	34 ⅜ in	5 ½ in	23 x 23	4HX67	2RB79	2ZV83	**3GY71**
24 ½ in	1 in	34 in	42 ¾ in	38 ⅜ in	5 ¾ in	27 x 27	4HX68	2RB80	2ZV84	**3GY68**
30 ½ in	1 in	42 in	50 in	36 in	8 ¼ in	35 x 35	4HX69	2RB81	2ZV85	**3GY69**
30 ½ in	1 in	42 in	50 in	36 in	8 ¼ in	35 x 35	4HX69	2RB81	2ZV85	**3HFL8**
36 in	1 ¼ in	46 in	58 ¾ in	38 ½ in	8 ⅞ in	39 x 39	4HX70	2RB82	2ZV85	**3HFL9**

Wheel Dia. (In.)	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.250"	Motor HP	RPM	Sones @ 0.250" SP @ 5 ft.#	Complete with Drive Package, Unassembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Unassembled** 3-Phase Motors 208-230/460V Item No.	Complete with Drive Package, Assembled** Single-Phase Motors 115/208-230V Item No.	Complete with Drive Package, Assembled** 3-Phase Motors 208-230/460V Item No.	Without Drive Package** Item No.
11	373	335	292	246	198	—	¼	1710	11.0	—	—	**2RB59**	—	—
	856	785	710	630	511	—	¼	1710	12.1	—	—	**2RB60**	—	—
	1062	920	767	567	—	—	⅙	1401	10.0	**7A547**	—	—	—	**4YU92**
	1296	1180	1062	934	785	—	¼	1710	13.2	**7A548**	—	**2RB61**	—	
	1386	1269	1162	1020	793	—	¼	1635	10.4	**7AX36** ‡	—	—	—	**16D539** ‡
	1526	1419	1321	1209	1065	793	⅓	1800	12.5	**7AX37** ‡	—	—	—	
	1386	1269	1162	1020	793	—	¼	1635	10.4	**7A549**	—	—	—	**4YU93**
	1526	1419	1321	1209	1065	793	⅓	1800	12.5	**7A550**	—	**2RB62**	—	
13¼	1692	1557	1404	1214	907	—	¼	1395	12.3	**7AX38** ‡	—	—	—	**16D540** ‡
	1880	1759	1629	1475	1289	974	⅓	1550	14.3	**7AX39** ‡	—	—	—	
	2093	1984	1871	1743	1600	1426	½	1725	17.0	**7AX40** ‡	**7AX41** ‡	—	—	
	1692	1557	1404	1214	907	—	¼	1395	12.3	**7A551**	—	—	—	**4YU94**
	1880	1759	1629	1475	1289	974	⅓	1550	14.3	**7A552**	—	—	—	
	2093	1984	1871	1743	1600	1426	½	1725	17.0	**7A553**	**7A649**	**2RB63**	—	
13¾	1866	1718	1545	1305	—	—	¼	1315	12.5	**7AX42** ‡	—	—	—	**16D541** ‡
	2044	1911	1759	1571	1299	—	⅓	1440	15.1	**7AX43** ‡	—	—	—	
	2391	2279	2158	2020	1857	1654	½	1685	16.3	**7AX44** ‡	**7AX45** ‡	—	—	
	1866	1718	1545	1305	—	—	¼	1315	12.8	**7AU65**	—	—	—	**5EFH7**
	2044	1911	1759	1571	1299	—	⅓	1440	15.1	**7AU66**	—	—	—	
	2391	2279	2158	2020	1857	1654	½	1685	16.3	**7AU67**	**7AU68**	—	—	
14¾	1994	1771	1490	—	—	—	¼	1075	9.4	**7AX46** ‡	—	—	—	**16D542** ‡
	2170	1966	1734	1356	—	—	⅓	1170	10.8	**7AX47** ‡	—	—	—	
	2523	2347	2166	1943	1602	—	½	1360	13.9	**7AX48** ‡	**7AX51** ‡	—	—	
	2866	2710	2556	2384	2177	1890	¾	1545	17.4	**7AX49** ‡	**7AX52** ‡	—	—	
	3163	3020	2883	2739	2574	2370	1	1705	20	**7AX50** ‡	**7AX53** ‡	—	—	
	1994	1771	1490	—	—	—	¼	1075	9.4	**7A554**	—	**3HFL6**	—	**4YU95**
	2170	1966	1734	1356	—	—	⅓	1170	10.8	**7A555**	—	—	—	
	2523	2347	2166	1943	1602	—	½	1360	13.9	**7A556**	**7A650**	**2RB64**	—	
	2866	2710	2556	2384	2177	1890	¾	1545	17.4	**7A557**	**7A651**	—	—	
	3163	3020	2883	2739	2574	2370	1	1705	20	**7A558**	**7A652**	—	—	

** Performance certified is for installation type A: free inlet, free outlet. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. †† 115/230V.*

CONTINUED

CONTINUED

Dayton

amca CERTIFIED RATINGS SOUND AND AIR PERFORMANCE

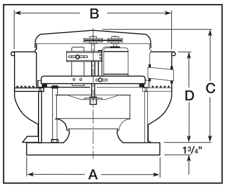
Centrifugal Belt-Drive Downblast Exhaust Ventilators

Wheel Dia. (In.)	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.250"	Motor HP	RPM	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** Single-Phase Motors 115/208-230V Item No.	COMPLETE WITH DRIVE PACKAGE, UNASSEMBLED** 3-Phase Motors 208-230/460V Item No.	COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** Single-Phase Motors 115/208-230V Item No.	COMPLETE WITH DRIVE PACKAGE, ASSEMBLED** 3-Phase Motors 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
16¾	2555	2162	1624	—	—	—	¼	865	9.7	7AX54 ‡	—	—	—	16D543 ‡
	2791	2434	2010	—	—	—	⅓	945	11.5	7AX55 ‡	—	—	—	
	3249	2943	2615	2198	—	—	½	1100	14.1	7AX56 ‡	7AX59 ‡	—	—	
	3692	3422	3149	2838	2444	—	¾	1250	17.0	7AX57 ‡	7AX60 ‡	—	—	
	4062	3815	3571	3304	3007	2609	1	1375	19.6	7AX58 ‡	7AX61 ‡	—	—	
	2555	2162	1624	—	—	—	¼	865	9.7	7YR28	—	—	—	4YU96
	2791	2434	2010	—	—	—	⅓	945	11.5	7A559	—	—	—	
	3249	2943	2615	2198	—	—	½	1100	14.1	7A560	7A653	3HFL7	—	
	3692	3422	3149	2838	2444	—	¾	1250	17.0	7A561	7A654	—	—	
	4062	3815	3571	3304	3007	2609	1	1375	19.6	7A562	7A655	—	—	
18½	2839	2469	1882	—	—	—	¼	730	7.2	7YR29	—	—	—	4YU97
	3150	2832	2375	—	—	—	⅓	810	8.7	7A563	—	—	—	
	3655	3388	3052	2601	—	—	½	940	12.0	7A564	7A656	—	—	
	4102	3867	3596	3252	2811	—	¾	1055	14.9	7A565 ††	7A657	—	—	
	4608	4401	4179	3900	3575	3178	1	1185	17.8	7A566	7A658	3GY70	3GY66	
	5191	5010	4814	4599	4344	4052	1 ½	1335	21	7A567 ††	7A659	—	—	
	5677	5514	5336	5155	4938	4699	2	1460	24	—	7A660	—	—	
21½	3320	2637	—	—	—	—	¼	600	7.3	7YR30	—	—	—	4YU98
	3680	3085	2087	—	—	—	⅓	665	8.5	7A568	—	—	—	
	4261	3744	3141	—	—	—	½	770	10.7	7A569	7A661	—	—	
	4759	4289	3811	3085	—	—	¾	860	12.9	7A570 ††	7A662	—	—	
	5340	4927	4520	4015	3240	—	1	965	15.4	7A571	7A663	—	—	
	6032	5682	5301	4925	4450	3751	1 ½	1090	18.9	7A572 ††	7A664	3GY71	3GY67	
	6640	6336	5969	5651	5274	4829	2	1200	23	—	7A665	—	—	
24½	3799	3132	—	—	—	—	¼	500	7.9	7AU69	—	—	—	5EFH8
	4179	3629	2526	—	—	—	⅓	550	8.9	7AU70	—	—	—	
	4863	4403	3702	—	—	—	½	640	12.1	7AU71	7AU72	—	—	
	5395	4990	4459	3633	—	—	¾	710	14.4	7AU73	7AU74	—	—	
	6079	5732	5326	4716	3929	—	1	800	16.1	7AU75	7AU76	—	—	
	6801	6501	6142	5723	5122	4401	1 ½	895	18.8	7AU77 ††	7AU78	—	—	
	7485	7212	6898	6568	6107	5548	2	985	23	—	7AU79	—	—	
	4223	3188	—	—	—	—	¼	460	5.7	7YR31	—	—	—	4YU99
	4637	3761	—	—	—	—	⅓	505	6.9	7A573	—	—	—	
	5371	4666	3562	—	—	—	½	585	9.1	7A574	7A666	—	—	
	6060	5449	4636	3217	—	—	¾	660	11.8	7A575 ††	7A667	—	—	
	6702	6158	5507	4568	—	—	1	730	14.3	7A576	7A668	—	—	
	7575	7092	6574	5901	5002	—	1 ½	825	17.7	7A577 ††	7A669	—	—	
	8355	7916	7467	6933	6240	5388	2	910	21	—	7A670	—	3GY68	
	8355	7916	7467	6933	6240	5388	3	910	21	—	7D492	—	—	
26½	6005	5063	3745	—	—	—	½	465	10.4	7AU80	7AU81	—	—	5EFH9
	6716	5898	4869	3008	—	—	¾	520	11.3	7AU82	7AU83	—	—	
	7491	6775	5912	4826	—	—	1	580	13.0	7AU84	7AU85	—	—	
	8588	7979	7274	6474	5465	3608	1 ½	665	15.8	7AU86 ††	7AU87	—	—	
	9493	8938	8335	7649	6878	5916	2	735	18.3	—	7AU88	—	—	
	10,874	10,292	9794	9225	8606	7932	3	835	22	—	7AU89	—	—	
30½	5912	4340	—	—	—	—	⅓	365	5.7	7AX62 ‡	—	—	—	16D544 ‡
	6803	5537	—	—	—	—	½	420	7.0	7AX63 ‡	7AX67 ‡	—	—	
	7694	6616	5095	—	—	—	¾	475	9.6	7AX64 ‡††	7AX68 ‡	—	—	
	8585	7640	6456	4195	—	—	1	530	12.2	7AX65 ‡	7AX69 ‡	—	—	
	9719	8907	7952	6721	—	—	1 ½	600	14.9	7AX66 ‡††	7AX70 ‡	—	—	
	10,772	10,060	9228	8269	7025	—	2	665	17.7	—	7AX71 ‡	—	—	
	12,311	11,704	10,997	10,242	9369	8293	3	760	21	—	7AX72 ‡	—	—	
	14,416	13,898	13,335	12,716	12,073	11,379	5	890	28	—	7AX73 ‡	—	—	
	5912	4340	—	—	—	—	⅓	365	5.7	7YR32	—	—	—	4YY10
	6803	5537	—	—	—	—	½	420	7.0	7A578	7A671	—	—	
	7694	6616	5095	—	—	—	¾	475	9.6	7A579 ††	7A672	—	—	
	8585	7640	6456	4195	—	—	1	530	12.2	7A580	7A673	—	—	
	9719	8907	7952	6721	—	—	1 ½	600	14.9	7A581 ††	7A674	3HFL8	—	
	10,772	10,060	9228	8269	7025	—	2	665	17.7	—	7A675	—	—	
	12,311	11,704	10,997	10,242	9369	8293	3	760	21	—	7A676	—	3GY69	
	14,416	13,898	13,335	12,716	12,073	11,379	5	890	28	—	7A677	—	—	
33½	10,024	8713	7050	—	—	—	1	415	11.3	7AU90	7AU91	—	—	5EFJ0
	11,232	10,087	8706	6966	—	—	1 ½	465	14.0	7AU92 ††	7AU93	—	—	
	12,319	11,294	10,085	8696	6472	—	2	510	16.6	—	7AU94	—	—	
	14,251	13,376	12,408	11,307	10,081	8536	3	590	21	—	7AU95	—	—	
	16,908	16,185	15,408	14,564	13,624	12,640	5	700	27	—	7AU96	—	—	
36	8693	6756	—	—	—	—	½	325	6.8	7YR33	—	—	—	4YY11
	9763	8109	—	—	—	—	¾	365	8.9	7A582 ††	7A678	—	—	
	10,966	9558	7641	—	—	—	1	410	11.9	7A583	7A679	—	—	
	12,304	11,085	9568	7096	—	—	1 ½	460	14.8	7A584 ††	7A680	—	—	
	13,507	12,431	11,096	9473	—	—	2	505	17.3	—	7A681	—	—	
	15,513	14,614	13,523	12,289	10,813	—	3	580	22	—	7A682	—	—	
	18,322	17,560	16,711	15,774	14,710	13,535	5	685	29	—	7A683	—	3HFL9	
42	17,925	16,540	14,790	12,502	—	—	3	435	17.8	—	7AU97	—	—	5EFJ1
	21,222	20,081	18,826	17,162	15,254	12,312	5	515	23	—	7AU98	—	—	
	24,725	23,765	22,709	21,621	20,104	18,585	7 ½	600	30	—	7AU99	—	—	
50	17,245	12,242	—	—	—	—	1	214	8.7	7A585	7A684	—	—	4YY12
	19,743	15,481	—	—	—	—	1 ½	245	11	7A586 ††	7A685	—	—	
	21,677	17,857	—	—	—	—	2	269	13.2	—	7A686	—	—	
	24,820	21,627	17,903	—	—	—	3	308	16.9	—	7A687	—	—	
	29,494	26,834	23,831	20,688	—	—	5	366	21	—	7A688	—	—	
	33,764	31,467	29,015	26,276	23,486	—	7 ½	419	27	—	7A689	—	—	
	37,068	34,991	32,805	30,342	27,917	25,310	10	460	32	—	7YR34	—	—	

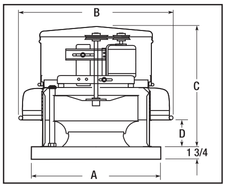
** Performance certified is for installation type A: free inlet, free outlet. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A, free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ Smaller base. †† 115/230V.*

Hazardous Location Centrifugal Belt-Drive Exhaust Ventilators

Upblast



Downblast



- Aluminum, backward inclined, nonoverloading centrifugal wheel design
- Air handling-quality bearings meet min. L10-100,000 hr.

Designed to exhaust air in commercial and industrial applications with potentially hazardous particles or fumes. Constructed with spark-resistant aluminum wheel and rub ring. Spun aluminum housing features rolled wind band to increase stability. Motor, drive frame, and wheel are isolated from the mounting base by independent neoprene studs—no metal-to-metal contact, greatly reducing overall noise. Motor compartment is cooled by fresh outside air, maximizing motor life. Motors, sheaves, belts, and conduit kit are packed separately when unassembled ventilator with drive package is ordered.

Warning: Nonhazardous location ventilators are not interchangeable with hazardous location ventilators.

Note: Installation must comply with all local and national safety codes including the National Electrical Code (NEC) and National Fire Protection Act (NFPA).

UPBLAST VENTILATORS

- Motor only UL Listed for Class I Groups C & D and Class II Groups E, F & G hazardous locations
- Max. inlet air temp.: 300°F
- Bearings: sealed pillow block up to 16½" wheel dia.; regreasable pillow block for 18½" wheel dia. and larger

DOWNBLAST VENTILATORS

- Motor only UL Listed for Class I Groups C & D and Class II Groups E, F & G hazardous locations
- Max. inlet air temp.: 180°F
- Bearings—sealed pillow block up to 16¾" wheel dia.; regreasable pillow block for 18½" wheel dia. and larger

Item No.	Wheel Dia.	Shaft Dia.	Dimensions A	B	C	D	RECOMMENDED ACCESSORIES Damper Size (In.)	Damper Item No.	Roof Curbs Fixed 12"H Item No.	Roof Curbs Adj. 12"H Item No.
Hazardous Upblast Exhaust Ventilators										
6KWJ9	11 ¼"	¾"	22"	24 ⅞"	25 ⅛"	17 ⅜"	15 x 15	4HX65	2RB76	—
33X834	13 ¼"	¾"	22"	24 ⅞"	29 ⅛"	17 ⅜"	15 x 15	4HX65	2RB76	—
33X835	14 ¾"	¾"	26"	28 ⅞"	30 ⅛"	19 ⅜"	19 x 19	4HX66	2RB77	—
33X836	16 ½"	¾"	26"	28 ⅞"	30 ⅛"	19 ⅜"	19 x 19	4HX66	2RB77	—
6KWK3	18 ½"	¾"	30"	35 ⅜"	34 ¾"	21"	23 x 23	4HX67	2RB79	—
Hazardous Downblast Exhaust Ventilators										
4YU92	11"	¾"	19"	24 ⅜"	24 ⅞"	4 ⅜"	12 x 12	4HX64	2RB75	2ZV82
4YU93	11"	¾"	22"	24 ⅜"	24 ⅞"	4 ⅜"	15 x 15	4HX65	2RB76	2ZV82
4YU94	13 ¼"	¾"	22"	24 ⅜"	24 ⅞"	4 ⅜"	15 x 15	4HX65	2RB76	2ZV82
4YU95	14 ¾"	¾"	26"	28 ⅜"	25 ⅜"	4"	19 x 19	4HX66	2RB77	2ZV83
4YU96	16 ¾"	¾"	26"	28 ⅜"	27 ¼"	4"	19 x 19	4HX66	2RB77	2ZV83
4YU97	18 ½"	¾"	30"	35 ½"	34 ⅜"	5 ½"	23 x 23	4HX67	2RB79	2ZV83
4YU98	21 ½"	¾"	30"	35 ½"	34 ⅜"	5 ½"	23 x 23	4HX67	2RB79	2ZV83
4YU99	24 ½"	1"	34"	42 ¾"	38 ⅜"	5 ¾"	27 x 27	4HX68	2RB80	2ZV84
4YY10	30 ½"	1"	42"	50"	36"	8 ¼"	35 x 35	4HX69	2RB81	2ZV84

Wheel Dia. (In.)	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	1.500"	Motor HP	RPM	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE UNASSEMBLED** Single-Phase Motors 115/208-230V, 60 Hz Item No.	3-Phase Motors 208-230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Hazardous Upblast Exhaust Ventilators													
11¼	1413	1313	1189	1056	861	–	¼	1660	0.26	12.0	**7HY41**	—	**6KWJ9**
	1549	1459	1350	1234	1106	–	⅓	1820	0.35	13.4	—	**7HY42**	
13¼	1790	1629	1458	1201	–	–	¼	1305	0.26	13.9	**7HY43**	—	**33X834**
	1968	1822	1671	1479	1198	–	⅓	1435	0.35	15.1	—	**7HY44**	
	2256	2128	2001	1864	1684	–	½	1645	0.52	17.4	—	**7HY46**	
14¾	2001	1793	1515	998	–	–	¼	1105	0.26	10.6	**7HY47**	—	**33X835**
	2192	2006	1773	1443	–	–	⅓	1210	0.34	11.7	**7HY48**	**7HY49**	
	2518	2362	2174	1949	1643	–	½	1390	0.52	14.2	**7HY50**	**7HY51**	
	2889	2757	2602	2430	2225	1568	¾	1595	0.79	18.5	—	**7HY52**	
16½	2515	2177	1744	–	–	–	¼	875	0.26	10.1	**7HY54**	—	**33X836**
	2774	2477	2109	1584	–	–	⅓	965	0.35	11.5	**7HY55**	**7HY56**	
	3191	2941	2641	2297	1770	–	½	1110	0.54	14.2	**7HY57**	**7HY58**	
	3636	3426	3172	2894	2583	–	¾	1265	0.79	17.7	—	**7HY59**	
	3996	3806	3584	3340	3078	2394	1	1390	1.05	21	—	**7HY60**	
18½	2815	2448	1763	–	–	–	¼	745	0.26	8.1	**7HY61**	—	**6KWK3**
	3098	2759	2257	–	–	–	⅓	820	0.34	10.0	**7HY62**	**7HY63**	
	3551	3243	2879	2363	–	–	½	940	0.52	13.1	**7HY64**	**7HY65**	
	4061	3786	3554	3141	2652	–	¾	1075	0.78	15.8	**7HY66**	**7HY67**	
	4477	4224	4005	3703	3336	–	1	1185	1.04	17.1	**7HY68**	**7HY69**	
	5138	4913	4710	4532	4232	3537	1 ½	1360	1.58	22	—	**7HY71**	
	5648	5443	5254	5082	4921	4313	2	1495	2.10	27	—	**7HY72**	
Hazardous Downblast Exhaust Ventilators													
11	1296	1180	1062	934	785	–	¼	1710	0.25	13.2	**7AE89**	—	**4YU92**
	1386	1269	1162	1020	793	–	¼	1635	0.25	10.4	**7AE90**	—	**4YU93**
	1526	1419	1321	1209	1065	–	⅓	1800	0.33	12.5	—	**7AF08**	
13¼	1692	1557	1404	1214	907	–	¼	1395	0.26	12.3	**7AE91**	—	**4YU94**
	1880	1759	1629	1475	1289	–	⅓	1550	0.35	14.3	—	**7AF09**	
14¾	1994	1771	1490	–	–	–	¼	1075	0.26	9.4	**7AE92**	—	**4YU95**
	2170	1966	1734	1356	–	–	⅓	1170	0.34	10.8	—	**7AF10**	
16¾	2555	2162	1624	–	–	–	¼	865	0.26	9.7	**7AE93**	—	**4YU96**
	2791	2434	2010	–	–	–	⅓	945	0.34	11.5	—	**7AF11**	
18½	2839	2469	1882	–	–	–	¼	730	0.26	7.2	**7AE94**	—	**4YU97**
	3150	2832	2375	–	–	–	⅓	810	0.34	8.7	**7AE95**	**7AF12**	
	3655	3388	3052	2601	–	–	½	940	0.54	12.0	**7AE96**	**7AF13**	
	4102	3867	3596	3252	2811	–	¾	1055	0.77	14.9	—	**7AF14**	
	4608	4401	4179	3900	3575	2499	1	1185	1.10	17.8	—	**7AF15**	
21½	3320	2637	–	–	–	–	¼	600	0.26	7.3	**7AE97**	—	**4YU98**
	3680	3085	2087	–	–	–	⅓	665	0.35	8.5	**7AE98**	**7AF16**	
	4261	3744	3141	–	–	–	½	770	0.55	10.7	**7AE99**	**7AF17**	
	4759	4289	3811	3085	–	–	¾	860	0.77	12.9	—	**7AF18**	
	5340	4927	4520	4015	3240	–	1	965	1.09	15.4	—	**7AF19**	
24½	4223	3188	–	–	–	–	¼	460	0.26	5.7	**7AF00**	—	**4YU99**
	4637	3761	–	–	–	–	⅓	505	0.35	6.9	**7AF01**	**7AF20**	
	5371	4666	3562	–	–	–	½	585	0.55	9.1	**7AF02**	**7AF21**	
	6060	5449	4636	3217	–	–	¾	660	0.79	11.8	—	**7AF22**	
	6702	6158	5507	4568	–	–	1	730	1.06	14.3	—	**7AF23**	
	7575	7092	6574	5901	5002	–	1 ½	825	1.54	17.7	—	**7AF24**	
30½	5912	4340	–	–	–	–	⅓	365	0.35	5.7	**7AF03**	**7AF25**	**4YY10**
	6803	5537	–	–	–	–	½	420	0.53	7.0	**7AF04**	**7AF26**	
	7694	6616	5095	–	–	–	¾	475	0.77	9.6	**7AF05**	**7AF27**	
	8585	7640	6456	4195	–	–	1	530	1.07	12.2	**7AF06**	**7AF28**	
	9719	8907	7952	6721	–	–	1 ½	600	1.56	14.9	**7AF07**	**7AF29**	
	10,772	10,060	9228	8269	7025	–	2	665	2.12	17.7	—	**7AF30**	

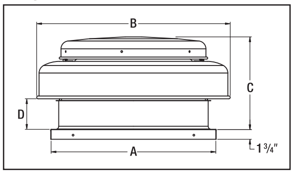
** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, conduit kit, belts, and sheaves to obtain performance listed.*

Axial Direct-Drive Downblast Exhaust and Supply Ventilators

- NEMA 1 junction box in motor enclosure
- Max. inlet air temperature: 120°F
- UL-705 Listed for Power Ventilators
- Units with 10" and 12" propeller diameter are wall- or roof-mountable

Provide steady exhaust or supply of clean air under low-to-moderate static pressures. Spun aluminum construction, with fully rolled bead on the windband, for stability and rigidity when lifting and transporting. Many models are speed-controllable; 4YC52, 4YC54, 4YC60, and 4YC62 are only speed-controllable at 115V.

EC Motor—39FV53 to 39FV56 feature electronically commutated (EC) motors, providing up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional speed control kits let you adjust fan speed from a remote location; see page 2955.



Prop. Dia. (in.)	Dimensions A	B	C	D	Recommended Damper (Exhaust Only) Size	Item No.	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
10"	19"	24 ⅝"	15 ¼"	5 ½"	12" x 12"	4HX64	2RB75	2ZV82
12"	22"	28 ⅝"	16 ½"	6 ¼"	15" x 15"	4HX65	2RB76	2ZV82
14"	22"	28 ⅝"	16 ½"	6 ¼"	15" x 15"	4HX65	2RB76	2ZV82
16"	26"	35 ¼"	17 ¼"	6 ¼"	19" x 19"	4HX66	2RB77	2ZV83
18"	30"	35 ¼"	17 ¼"	6 ¼"	23" x 23"	4HX67	2RB79	2ZV83
20"	34"	42"	17 ½"	6 ¼"	27" x 27"	4HX68	2RB80	2ZV84
24"	34"	42"	17 ½"	6 ¼"	27" x 27"	4HX68	2RB80	2ZV84

Disconnect Type	No. of Poles	Max. HP	Item No.	Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400	NEMA 4	2	2	1H408
	3	7½	1H401		3	7½	1H409

Propeller Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	RPM	Sones @ 0.250" SP @ 5 ft.#	STANDARD MOTOR, 1-Phase, 115V Speed Control	Motor HP	Item No.	EC MOTOR, VARIABLE SPEED, 1-Phase, 115V Speed Control	Motor HP	Item No.	STANDARD MOTOR, 3-Phase, 208-230/460V Speed Control	Motor HP	Item No.
Exhaust Ventilator																
10 in	270	—	—	—	—	860	—	—	—	—				—	—	—
	358	—	—	—	—	1140	—	—	—	—	43Y140	¼	**39FV53**	—	—	—
	542	333	—	—	—	1725	12.5	—	—	—				—	—	—
	550	347	189	—	—	1750	13.2	48C172	⅛	**4YC86**	—	—	—	—	—	—
12 in	765	—	—	—	—	860	—	—	—	—				—	—	—
	1014	376	—	—	—	1140	5.2	48C172	⅙	**4YC87**	43Y140	¼	**39FV54**	—	—	—
	1534	1263	647	354	—	1725	8.6	—	—	—				—	—	—
	1556	1291	672	386	—	1750	8.9	48C173	¼	**4YC88**	—	—	—	—	—	—
14 in	1207	323	—	—	—	860	5.5	—	—	—				—	—	—
	1601	925	273	—	—	1140	8.4	48C172	⅙	**4YC89**	43Y140	½	**39FV56**	—	—	—
	2422	2050	1541	1203	657	1725	15.7	—	—	—				—	—	—
	2457	2093	1603	1244	716	1750	16.2	48C173	½	**4YC90**	—	—	—	—	—	—
16 in	1508	598	—	—	—	860	6.0	—	—	—				—	—	—
	1999	1418	682	—	—	1140	8.4	48C172	⅙	**4YC48**	43Y140	½	**39FV55**	—	—	—
	3024	2722	2280	1578	1206	1725	15.7	—	—	—				—	—	—
	3068	2771	2339	1686	1257	1750	16.1	48C172	½	**4YC49**	—	—	—	—	—	—
18 in	2982	2264	1276	499	—	1140	11.4	48C172	⅓	**4YC50**	—	—	—	—	—	—
	4578	4141	3660	2935	2327	1750	29	—	1	**4YC51** †	—	—	—	—	1	**6KWN7**
20 in	3871	3100	1925	—	—	1140	11.7	48C172	½	**4YC52** **	—	—	—	—	—	—
	5943	5507	5007	4246	3295	1750	23	—	1 ½	**4YC53** †	—	—	—	—	1 ½	**6KWN8**
24 in	5091	4277	3279	2252	1583	1140	13.6	48C172	½	**4YC54** **	—	—	—	—	—	—
	6042	5137	4146	3136	2028	1140	20	—	1	**4YC55**	—	—	—	—	1	**6KWN9**

Propeller Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.250"	0.500"	0.750"	1.000"	RPM	Sones @ 0.250" SP @ 5 ft.#	STANDARD MOTOR, 1 Phase Voltage @ 60 Hz	Speed Control	Motor HP	Item No.	STANDARD MOTOR, 3 Phase Voltage @ 60 Hz	Speed Control	Motor HP	Item No.
Supply Ventilator															
12 in	929	595	—	—	—	1750	14.3	115	48C173	¼	**4YC91**	—	—	—	—
	1444	1203	641	—	—	1750	12.2	115	48C173	¼	**4YC92**	—	—	—	—
14 in	2041	1742	1380	1018	—	1750	15.9	115	48C173	¼	**4YC93**	—	—	—	—
	2586	2176	1799	1380	—	1750	19.9	115	48C173	½	**4YC94**	—	—	—	—
16 in	2353	2008	1597	1121	—	1750	19.6	115	48C173	½	**4YC56**	—	—	—	—
	2920	2602	2188	1693	1200	1750	20	115/230	48C173	¾	**4YC57**	208-230/460	—	¾	**6KWP0**
18 in	3906	3454	2990	2454	—	1750	27	115	48C172	¾	**4YC58**	208-230/460	—	¾	**6KWP1**
	4247	3846	3259	2724	1779	1750	30	115/208-230	—	1	**4YC59**	208-230/460	—	1	**6KWP2**
20 in	3488	2715	1847	—	—	1140	18.4	115/230	48C172	½	**4YC60** **	—	—	—	—
	5355	4886	4408	3830	3272	1750	34	115/208-230	—	1 ½	**4YC61**	208-230/460	—	1 ½	**6KWP3**
24 in	4569	3841	2958	—	—	1140	23	115/230	48C172	½	**4YC62** **	—	—	—	—
	5742	4929	4131	3066	—	1140	24	115/230	—	1	**4YC63**	208-230/460	—	1	**6KWP4**

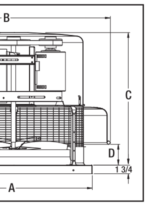
** Performance certified is for installation type A: free inlet, free outlet. Performance ratings include the effects of a bird screen in the airstream. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels. ** Speed controls usable at 115V only. † 115/208-230V.*

Axial Belt-Drive Downblast Exhaust Ventilators

- NEMA 1 junction box in motor enclosure
- Max. inlet air temperature: 120°F
- UL-705 Listed for Power Ventilators
- Air-handling quality bearings are selected to meet a minimum of L10-100,000 hr.
- Regreasable pillow block bearings

Provide steady exhaust of clean air under low-to-moderate static pressures. Spun aluminum construction, with fully rolled bead on the windband, for stability and rigidity when lifting and transporting.

Propeller Dia.(in.)	Shaft Dia. (in.)	Dimensions (in.) A	B	C	D	Recommended Backdraft Damper Size (in.)	Item No.	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
20	1	30	35¼	28¾	5⅛	23 x 23	4HX67	2RB79	2ZV83
24	1	34	42¼	29	4¾	27 x 27	4HX68	2RB80	2ZV84
30	1¼	42	47½	34⅜	4¾	35 x 35	4HX69	2RB81	2ZV84
36	1¼	46	58⅝	41⅞	6⅝	39 x 39	4HX70	2RB82	2ZV85



Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	RPM	Max. BHP†	COMPLETE W/DRIVE PKG.** Single-Phase Motor 115/230V, 60Hz Item No.	3-Phase Motor 230/460V, 60Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
20 in	2,742	2,296	1,725	960	—	¼	795	0.26	**7A398**	—	**4YU88**
	3,018	2,610	2,109	1,612	—	⅓	875	0.34	**7A399**	**7A415**	
	3,456	3,092	2,743	2,228	1,795	½	1,002	0.52	**7A400**	**7A416**	
	3,957	3,625	3,337	3,012	2,532	¾	1,147	0.78	**7A401**	**7A417**	
24 in	3,351	2,663	1,777	—	—	¼	601	0.26	**7A402**	**7A418**	**4YU89**
	3,686	3,076	2,293	1,352	—	⅓	661	0.35	**7A403**	**7A419**	
	4,221	3,679	3,045	2,391	1,488	½	757	0.52	**7A404**	**7A420**	
	4,834	4,366	3,894	3,232	2,688	¾	867	0.79	**7A405**	**7A421**	
	5,320	4,905	4,472	3,946	3,386	1	954	1.05	**7A406**	**7A422**	
30 in	5,073	4,292	3,337	2,349	—	½	551	0.48	**7A407**	**7A423**	**4YU90**
	5,810	5,139	4,369	3,571	2,631	¾	631	0.8	**7A408**	**7A424**	
	6,399	5,792	5,130	4,327	3,704	1	695	1.06	**7A409**	**7A425**	
	7,320	6,788	6,239	5,618	4,901	1 ½	795	1.6	**7A410**	**7A426**	
	8,056	7,572	7,087	6,559	5,956	2	875	1.98	**7A411**	**7A427**	
36 in	8,261	7,052	5,729	4,398	2,580	¾	493	0.79	**7A412**	**7A428**	**4YU91**
	9,082	7,972	6,861	5,569	4,405	1	542	1.06	**7A413**	**7A429**	
	10,406	9,425	8,502	7,424	6,316	1 ½	621	1.57	**7A414**	**7A430**	

Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2	1H400
	3	7½	1H401
NEMA 4	2	2	1H408
	3	7½	1H409

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a bird screen in the airstream. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

Supply Or Make-Up Air Ventilation

The total amount of air supplied is approximately 100% of the air exhausted. Insufficient make-up air in the kitchen can create hood capture problems. There are two general types of make-up air, untempered and tempered. Here are some things to consider when selecting the supply portion of your kitchen ventilation system.

- **A slight negative pressure is desirable in a kitchen to keep odors out of the dining room (should not exceed 0.02" static pressure)**
- **Make-up air must be supplied at ±10°F from air in the space**
- **Use non-directional perforated diffusers (4-way diffusers are not recommended in kitchen applications)**

Untempered filtered supply ventilators are the most economical solution if heating or cooling is required and all codes can be met. Untempered air should be supplied near the hood at low velocities so it can be exhausted quickly without mixing in the space, causing discomfort and increasing heating/cooling costs.

Tempered direct-fired make-up air heaters provide the best comfort in the kitchen. Supply tempered air through a source that will distribute air throughout the kitchen to increase comfort. Northern climates almost always require heated make-up air.

INSTALLATION

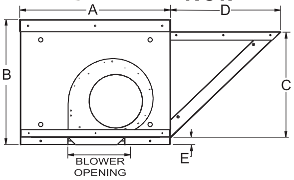
NFPA 96

- **Intake must be a minimum of 10 ft. from exhaust ventilator,**

Or

- **Exhaust ventilator discharge must be a minimum of 36" higher than intake**

4YC47



Centrifugal Belt-Drive Filtered Supply Ventilators

Dayton

- Max. inlet air temp.: 120°F
- UL 705 Listed for Power Ventilators
- Air handling-quality bearings meet min. L10-100,000 hr.
- Bearings: sealed pillow block (20½" units are regreasable pillow block)

Supply untempered, filtered makeup air to commercial and institutional buildings, or in commercial kitchen applications. Heavy-gauge galvanized steel construction. Neoprene isolators, lifting lugs, and weather hood with removable 1" aluminum washable filters. 4YC82 and 4YC47 can be wall- or roof-mounted. 4YC83, 5AU56, and 5AU57 are roof-mount only. Motor, belts, and sheaves are packed separately when complete ventilator with drive package is ordered.

Disconnect Type	No. of Poles	Max. HP	Item No.
NEMA 1	2	2 @ 115/230V	1H400
	3	7½ @ 230V, 10 @ 460V	1H401
NEMA 4	2	2 @ 115/230V	1H408
	3	7½ @ 230V, 10 @ 460V	1H409

Wheel Dia. (in.)	BLOWER OPENING Discharge Length (in.)	Discharge Width (in.)	Dimensions (in.) A (sq.)	B	C	D	E	RECOMMENDED ROOF CURBS Fixed 8"H Item No.	Fixed 12"H Item No.	Adj. 6⅜"H Item No.	Adj. 12"H Item No.
11 ⅛ in	11 ⅜ in	13 ⅜ in	30	25	21¼	22	1½	4HX41	2RB79	4C454	2ZV83
13 ¼ in	13 ¾ in	15 ⅝ in	34½	32	27½	29¼	2	4HX42	2RB80	4C455	2ZV84
15 ½ in	16 in	18 ⅝ in	34½	32	27½	29¼	2	4HX42	2RB80	4C455	2ZV84
18 ½ in	19 ⅛ in	22 ¼ in	42	36	30¾	32	2	4HX43	2RB81	3C597	2ZV85
20 ½ in	25 ⅜ in	23 in	46	48	43¾	36	2	4HX44	2RB82	3C597	2ZV85

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.750"	1.00"	Motor HP	Max. BHP†	Sones @ 0.250" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor, 115/230V, 60 Hz Item No.	Totally Enclosed, 1-Phase Motor, 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor, 230/460V, 60 Hz Item No.	Totally Enclosed, 3-Phase Motor, 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
11 ⅛	735	—	—	—	—	—	⅙	0.04	—	**7D493**	**7HY73**	—	—	**4YC82**
	1,435	1,106	—	—	—	—	⅙	0.18	11.3	**7D494**	**7HY74**	—	—	
	1,722	1,472	1,115	—	—	—	¼	0.28	11.4	**7D495**	**7HY75**	—	—	
	1,949	1,730	1,471	1,048	—	—	⅓	0.39	12.8	**7D496**	**7HY76**	—	—	
	2,293	2,100	1,899	1,667	—	—	½	0.61	15.9	**7D497**	**7HY77**	**7D510**	**7HY78**	
	2,661	2,485	2,324	2,140	1,661	—	¾	0.92	20	**7D498**	**7HY79**	**7D511**	**7HY80**	
	2,959	2,804	2,651	2,500	2,142	1,585	1	1.24	24	**7D499**	**7HY81**	**7D512**	**7HY82**	
13 ¼	2,254	1,760	—	—	—	—	⅓	0.3	12.8	**7D500**	**7HY83**	—	—	**4YC47**
	2,714	2,414	1,916	—	—	—	½	0.5	16.2	**7D501**	**7HY84**	**7D513**	**7HY85**	
	3,139	2,902	2,562	2,117	—	—	¾	0.75	21	**7D502**	**7HY86**	**7D514**	**7HY87**	
	3,557	3,353	3,119	2,747	—	—	1	1.06	24	**7D503**	**7HY88**	**7D515**	**7HY89**	
	3,948	3,762	3,565	3,314	2,607	—	1½	1.43	27	**7D504**	**7HY90**	**7D516**	**7HY91**	
15 ½	3,102	2,708	2,109	1,065	—	—	½	0.54	11.2	**7D505**	**7HY92**	**7D517**	**7HY93**	**4YC83**
	3,597	3,280	2,831	2,293	—	—	¾	0.81	15.8	**7D506**	**7HY94**	**7D518**	**7HY95**	
	4,049	3,760	3,456	2,985	1,591	—	1	1.13	18.7	**7D507**	**7HY96**	**7D519**	**7HY97**	
	4,560	4,304	4,048	3,719	2,854	—	1½	1.58	22	**7D508**	**7HY98**	**7D520**	**7HY99**	
	5,066	4,837	4,601	4,371	3,650	2,681	2	2.13	26	—	—	**7D521**	**7HZ00**	
18 ½	6,220	5,814	5,296	4,740	3,134	—	1½	1.66	18.7	**7D509**	**7HZ01**	**7D522**	**7HZ02**	**5AU56**
	6,874	6,531	6,075	5,604	4,431	—	2	2.2	23	—	—	**7D523**	**7HZ03**	
	7,926	7,604	7,275	6,858	5,995	4,894	3	3.3	29	—	—	**7D524**	**7HZ04**	
	9,474	9,168	8,913	8,643	7,935	7,218	5	5.52	39	—	—	**7D525**	**7HZ05**	
20 ½	11,502	11,080	10,676	10,160	9,004	7,781	5	5.5	34	—	—	**7D526**	**7HZ06**	**5AU57**
	13,229	12,848	12,491	12,137	11,208	10,161	7½	8.26	44	—	—	**7D527**	**7HZ07**	
	14,602	14,255	13,920	13,597	12,841	11,952	10	11.03	53	—	—	**7D528**	**7HZ08**	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a filter. # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation in Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

NFPA 96 Required Accessories

Dayton

4HX61

Ventilated Roof Curbs—Ventilate hot exhaust ducts in commercial kitchen applications, protecting buildings and roof members. Galvanized steel curbs allow for quick ventilator installation and uniformity throughout the job. Fixed curbs are 18 ga.; adjustable curbs are 16 ga. Flat-flashing flange mounts directly to roof surface. Top flange surface is 1¾" wide. For use with NFPA 96, UL 705, and UL 762 applications.

Grease Collector Box—Diverts and collects heavy grease residue while protecting roof surface. Fastens directly to curb underneath ventilator and includes connection from ventilator drain to Grease Box. Required for NFPA 96 and UL 762.

Hinge Kits—Allow ventilators to swing back to expose the entire fan for cleaning and inspection, making maintenance easier. Includes retaining cable and hardware kit. Upblast Hinge Kits are required for NFPA 96 and UL 762.

Clean-Out Port Kit—Retrofits ventilator with a cleanout port for access to the ventilator wheel through the windband. Required for NFPA 96. Includes removable plug and hardware. Required for NFPA 96 and UL 762.

Curb Height (in.)	Outside Square (in.)	Inside Square (in.)	Use w/Dayton Ventilators	Item No.
Adjustable Ventilated Roof Curbs, 5 in Flashing				
24 in	17 ½ to 22	14 ½ to 18	Sq. Base 19 to 20½"	**4HX61**
24 in	24 to 29	21 to 26	Sq. Base 25½ to 27½"	**4HX62**
18 in	31 to 46	28 to 43	Sq. Base 32½ to 44½"	**4HX63**
Fixed Ventilated Roof Curbs, 4 in Flashing				
24 in	17 ½ in	14 in	19" Sq. Base	**4HX54**
24 in	20 ½ in	17 in	22" Sq. Base	**4HX55**
24 in	24 ½ in	21 in	26" Sq. Base	**4HX56**
24 in	28 ½ in	25 in	30" Sq. Base	**4HX57**
18 in	32 ½ in	29 in	34" Sq. Base	**4HX58**
18 in	40 ½ in	37 in	42" Sq. Base	**4HX59**
18 in	44 ½ in	41 in	46" Sq. Base	**4HX60**

H (in.)	L (in.)	W (in.)	For Use With Dayton Roof-Mounted Centrifugal Ventilators	Item No.
Grease Collector Box				
6	12	5	Upblast	**48C174**
Hinge Kits - Upblast				
—	—	—	Upblast, 17" to 30" Sq. Base	**4HX79**
—	34	34	Upblast, 34" Sq. Base	**20CK53**
—	40	40	Upblast, 40" Sq. Base	**20CK54**
—	42	42	Upblast, 42" Sq. Base	**20CK55**
—	46	46	Upblast, 46" Sq. Base	**20CK56**

H (in.)	L (in.)	W (in.)	For Use With Dayton Roof-Mounted Centrifugal Ventilators	Item No.
Hinge Kits - Downblast				
—	34	34	Downblast, 34" Sq. Base	**20CK47**
—	40	40	Downblast, 40" Sq. Base	**20CK48**
—	42	42	Downblast, 42" Sq. Base	**20CK49**
—	46	46	Downblast, 46" Sq. Base	**20CK50**
—	52	52	Downblast, 52" Sq. Base	**20CK51**
—	64	64	Downblast, 64" Sq. Base	**20CK52**
Clean-Out Port Kit				
7	—	7	Upblast	**3ATV9**

2RB74

Dayton

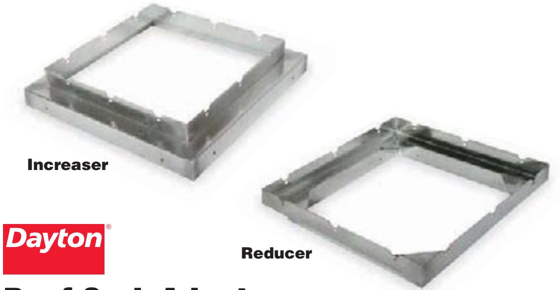
Nonventilated Roof Curbs

- For insulated and noninsulated metal, concrete, or wood roof decks
- For rubber membrane and urethane foam roofing materials

Straight-sided, prefabricated, leak-proof curbs provide compatibility between ventilator, curb, and roof opening on commercial and industrial buildings. Most include 1" insulation and integral damper tray. Curbs are for flat roof decks with up to 6" of insulation. Roll-formed with 18-ga. galvanized steel and 1 welded side for added strength. Fixed curbs include a 1½" lap-joint wood nailer. Adjustable curbs are shipped unassembled.

Curb Sq. O.D. (in.)	Curb Sq. I.D. (in.)	Damper Size (in.)	12 in H Item No.	
Fixed, Straight-Sided, 2 in Flashing Flange				
15 in	11 ½ in	9½ x 9½	2RB74	
15 ½ in	12 ½ in	9 ½ x 9 ½	5EFJ2	
17 ½ in	14 ½ in	12 x 12	2RB75	
20 ½ in	17 ½ in	15 x 15	2RB76	
23 in	20 in	17½ x 17½	3FLT5	
24 ½ in	21 ½ in	19 x 19	2RB77	
27 in	24 in	21½ x 21½	3AZH7	
27 ½ in	24 ½ in	—	2RB78	*
28 ½ in	25 ½ in	23 x 23	2RB79	
32 ½ in	29 ½ in	27 x 27	2RB80	
33 in	30 in	27½ x 27½	3AZH8	
34 ½ in	31 ½ in	—	3AZH9	*
37 ½ in	34 ½ in	—	3AZJ1	*
38 ½ in	35 ½ in	27 X 27	24Y860	
39 in	36 in	33½ x 33½	3AZJ2	
40 ½ in	37 ½ in	35 x 35	2RB81	
43 ½ in	40 ½ in	—	3AZJ3	*
44 ½ in	41 ½ in	39 x 39	2RB82	
45 in	42 in	39½ x 39½	3AZJ4	
49 in	46 in	—	3AZJ5	*
50 ½ in	47 ½ in	39 x 39	5EFJ3	
53 in	50 in	47½ x 47½	3AZJ6	
55 ½ in	52 ½ in	—	3AZJ7	*
59 in	56 in	53½ x 53½	3FLT6	
62 ½ in	59 ½ in	50 x 50	2RB83	
65 in	62 in	59½ x 59½	3AZJ8	
71 in	68 in	—	3AZJ9	*
Adjustable, Straight-Sided, 4 in Flashing Flange				
14 ½ to 23	10 ½ to 19	12 to 19 Sq.	2ZV82	
23 ½ to 32	19 ½ to 28	19 to 27 Sq.	2ZV83	
32 ½ to 41	28 ½ to 37	27 to 39 Sq.	2ZV84	
41 to 49 ½	37 to 45 ½	39 to 50 Sq.	2ZV85	
50 to 58 ½	46 to 54 ½	50 x 50	2ZV86	
64 to 72 ½	60 to 68 ½	—	2ZV87	

** Does not include damper tray.*



Increaser

Reducer

Dayton

Roof Curb Adapters

Allow existing roof curb to be used when replacing a fan or ventilator. Adapt standard fan base dimension to existing curb. Add no height to the installation. Galvanized steel. Top and bottom flange surface is 2½".

Fan Side Sq. O.D. (in.)	Curb Side Sq. O.D. (in.)	Function	Item No.
Increaser			
18½"	21"	19" Fan Base Fits 21" Curb	3AZK8
21½"	24"	22" Fan Base Fits 24" Curb	6KWP5
21½"	26"	22" Fan Base Fits 26" Curb	3AZK9
25½"	30"	26" Fan Base Fits 30" Curb	3AZL1
29½"	34"	30" Fan Base Fits 34" Curb	3AZL2
29½"	40½"	30" Fan Base Fits 40.5" Curb	20UV27
33½"	40"	34" Fan Base Fits 40" Curb	3AZL3
40"	44½"	40½" Fan Base Fits 44½" Curb	3AZL4
Reducer			
18½"	17"	19" Fan Base Fits 17" Curb	3AZK1
21½"	18"	22" Fan Base Fits 18" Curb	3AZK2
21½"	20"	22" Fan Base Fits 20" Curb	3AZK3
25½"	22"	26" Fan Base Fits 22" Curb	3AZK4
25½"	24"	26" Fan Base Fits 24" Curb	6KWP6
29½"	24"	30" Fan Base Fits 24" Curb	6KWP7
29½"	26"	30" Fan Base Fits 26" Curb	3AZK5
33½"	30"	34" Fan Base Fits 30" Curb	3AZK6
45½"	42"	46" Fan Base Fits 42" Curb	3AZK7

30F449

4YN30

PORTALSPLUS

Rooftop Accessories

Rooftop Equipment Mounting Rail—Provides uniform mounting pedestals for various roof-mounted equipment.

Flat Roof Flashing—Flexible rubber cap fastens to seamless aluminum base for secure, watertight seal. Stainless steel clamps included.

Shingle Roof Flashing—Galvanized base with elastomeric center collar for slopes up to 40°.

Corrugated-Metal Roof and Wall Flashing—1-pc. weather-resistant EPDM flexible rubber flashing with integral aluminum base.

4YN42—Includes carry box, seam tape to join pieces of rubber, adhesive-backed cover tape for repairing punctures and tears in membranes, and adhesive-backed flashing tape to repair corner molding and flashing. Also includes primer wash and applicator, scissors, and seam roller.

Description	Pipe Size (in.)	Brand	Mfr. Model	Item No.
Rooftop Equipment Mounting Rail, 3 ft. L	—	—	—	30F449
Rooftop Equipment Mounting Rail, 4 ft. L	—	—	—	30F450
Rooftop Equipment Mounting Rail, 6 ft. L	—	—	—	30F451
Flat Roof Flashing, 1 Pipe	2 to 6	Portals Plus	—	4YN30
Flat Roof Flashing, 4 Pipes	(2) ⅜ to 1; (2) 1 to 2	Portals Plus	—	4YN31
Shingle Roof Flashing, 1 Pipe	1¼ to 1½	Portals Plus	—	4YN38
Shingle Roof Flashing, 1 Pipe	2	Portals Plus	—	4YN39
Shingle Roof Flashing, 1 Pipe	3	Portals Plus	—	4YN40
Shingle Roof Flashing, 1 Pipe	4	Portals Plus	—	4YN41
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	¼ to 5¾	Master Flash	SQ301GA	46E374
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	4 to 8¼	Master Flash	SQ501GA	46E375
Corrugated-Metal Roof and Wall Flashing, 1 Pipe	6¾ to 13½	Master Flash	SQ801GA	46E376
Single-Ply EPDM Rubber Roof Repair Kit	—	Portals Plus	—	4YN42

3GYG2

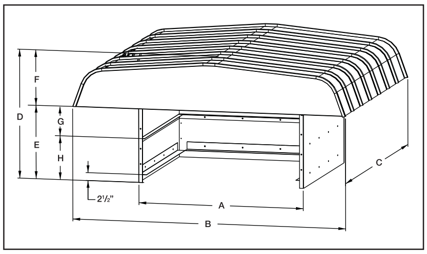
3GYF1

ETERNABOND
Featuring MICROSEALANT TECHNOLOGY
ROYAL

Roof Repair Tapes, Primers, and Tools

Description	Item No.
Roof Repair Products	
4 mil. Aluminum Backed Sealant Tape, 2 in x 50 ft, 20 mil	3GYH6
4 mil. Aluminum Backed Sealant Tape, 4 in x 50 ft, 20 mil	3GYE7
Double Stick Sealant Tape, Gray, 2 in x 50 ft, 60 mil	3GYE8
Double Stick Sealant Tape, Black, Gray, White, 40 Rolls Total (15 Rolls White, 15 Rolls Black 2 in x 4 ft, 65 mil , and 10 Rolls of 60 mil Double-Sided)	3GYG9
RoofSeal Tape, Black, 4 in x 50 ft, 35 mil	3GYF4
RoofSeal Tape, White, 4 in x 50 ft, 35 mil	3GYG2
RoofSeal Tape, Black, 6 in x 50 ft, 35 mil	3GYF5
RoofSeal Tape, White, 6 in x 50 ft, 35 mil	3GYG3
RoofSeal Tape, Black, 12 in x 50 ft, 35 mil	3GYF3
RoofSeal Plus Tape, Black, 4 in x 25 ft, 65 mil	3GYF6
RoofSeal Plus Tape, White, 4 in x 25 ft, 65 mil	3GYF8
RoofSeal Plus Tape, Black, 6 in x 25 ft, 65 mil	3GYF7
RoofSeal Plus Tape, White, 6 in x 25 ft, 65 mil	3GYF9
Paintable Woven Fabric-Coated Tape, Gray, 2 in x 50 ft, 25 mil	3GYJ1
Paintable Woven Fabric-Coated Tape, Gray, 4 in x 50 ft, 25 mil	3GYG4
Paintable Woven Fabric-Coated Tape, Gray, 6 in x 50 ft, 25 mil	3GYG5
Paintable Woven Fabric-Coated Tape, Gray, 12 in x 50 ft, 25 mil	3GYG8
Roof Repair Tape Kit and Surface Prep Pads, White, 4 in x 5 ft, 35 mil	3GYH1
Roof Repair Tape Kit and Surface Prep Pads, Black, 4 in x 5 ft, 35 mil	3GYH2
Roof Repair Kit	
6 in x 50 ft RoofSeal, 2 in x 50 ft Double-Sided Stick, 4 in x 50 ft WebSeal, 14 oz Spray Can EternaPrime, 14 oz Spray Can EternaClean, 2 lb x 2.5 in Curved End Steel Roller, Heavy Duty Scissors, Surface Preparation Pad, Seam Probe, Tool Bag, and Instructions	3GYE6
Cleaners and Tools	
Primer, 1 qt., Covers 75 sq. ft., Aggressive Adhesive and Surface Conditioner for MicroSealants	3GYF1
Primer Spray, 14 oz, Aggressive Adhesive and Surface Conditioner for MicroSealants	3GYF2
Steel Roller, 8 in L, Curved End with Handle	3GYH4

7CF73
(Shown in
Service Position)



Hooded Axial Belt-Drive Roof Ventilators

Dayton®

- Max. inlet air temperature: 104°F

Designed for roof-mounted exhaust or supply of clean air in factories, warehouses, and other large facilities. Heavy-gauge galvanized steel construction features hinged hood with bird screen, providing convenient access to motor and drives. Strong, weathertight hood is constructed of interlocking arched galvanized panels. Bird screen and hood come preassembled (except 54" and 60" sizes). Base requires field assembly with hardware provided. Housing, fan, and drive packages are shipped separately. Reversible exhaust/supply ventilators include wall-mounted reversing switch.

Propeller Dia. (in.)	Dimensions (in.) A	B	C	D	E	F	G	H	Recommended Accessories: Roof Curb Fixed 12"H Item No.	Roof Curb Adj. 12"H Item No.	Gravity Backdraft Damper Item No.
20	24½	44	48	38	22	16	11½	10½	3FLT5	2ZV83	3HHL6
24	28½	48	48	38	22	16	11½	10½	3AZH7	2ZV83	2FTV7
30	34½	57	60	38	22	16	11½	10½	3AZH8	2ZV84	3HHL8
36	40½	68	60	38	22	16	11½	10½	3AZJ2	2ZV84	3HHN1
42	46½	78	72	40½	24½	16	10	14½	3AZJ4	2ZV85	6WRK7
48	54½	90	84	42½	26½	16	12½	14	3AZJ6	2ZV86	6WRK8
54	60½	96	96	53½	28½	25	14	14½	3FLT6	2ZV87	5NKN7
60	66½	100	108	54½	30½	24	14½	16	3AZJ8	2ZV87	6WRK9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	Motor HP	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 230/460V, 60 Hz Item No.
Exhaust Ventilators										
20 in	3,080	2,707	2,123	998	¼	953	7AD67	7AD68	7AD69	7AD70
	3,357	3,025	2,540	1,752	⅓	1,039	7AD71	7AD72	7AD73	7AD74
	3,945	3,678	3,331	2,866	½	1,221	7AD75	7AD76	7AD77	7AD78
24 in	3,957	3,536	2,927	—	¼	923	7CF46	7CF47	7AE00	7CF48
	4,339	3,961	3,450	—	⅓	1,012	7CF49	7CF50	7AE01	7CF51
	5,064	4,747	4,376	—	½	1,181	7CF52	7CF53	7AE02	7CF54
	5,797	5,520	5,225	4,852	¾	1,352	7CF55	7CF56	7AE03	7CF57
30 in	5,535	4,698	—	—	¼	621	7CF58	7CF59	7AE04	7CF60
	6,016	5,275	4,024	—	⅓	675	7CF61	7CF62	7AE05	7CF63
	6,916	6,268	5,452	—	½	776	7CF64	7CF65	7AE06	7CF66
	7,861	7,287	6,677	5,791	¾	882	7CF67	7CF68	7AE07	7CF69
	8,628	8,100	7,594	6,901	1	968	7CF70	7CF71	7AE08	7CF72
36 in	7,758	6,050	4,190	—	⅓	477	7CF73	7CF74	7AE09	7CF75
	9,043	7,643	6,450	3,880	½	556	7CF76	7CF77	7AE10	7CF78
	10,213	8,995	7,552	6,780	¾	628	7CF79	7CF80	7AE11	7CF81
	11,287	10,211	8,962	7,308	1	694	7CF82	7CF83	7AE12	7CF84
	12,881	11,987	10,917	9,746	1 ½	792	7CF85	7CF86	7AE13	7CF87
42 in	10,151	8,266	6,550	—	½	426	7CF88	7CF89	7AE14	7CF90
	11,485	9,885	7,250	6,420	¾	482	7CF91	7CF92	7AE15	7CF93
	12,702	11,308	9,489	8,780	1	533	7CF94	7CF95	7AE16	7CF96
	14,489	13,318	11,856	9,793	1 ½	608	7CF97	7CF98	7AE17	7CF99
48 in	11,277	8,481	6,160	—	½	341	7CH03	7CH04	7AE18	7CH05
	12,997	10,826	10,010	—	¾	393	7CH06	7CH07	7AE19	7CH08
	14,188	12,290	8,779	7,980	1	429	7CH09	7CH10	7AE20	7CH11
	16,238	14,599	12,434	6,725	1 ½	491	7CH12	7CH13	7AE21	7CH14
	17,858	16,384	14,644	11,742	2	540	7CH15	7CH16	7AE22	7CH17
	20,437	19,165	17,807	16,057	3	618	—	—	7AE23	—
54 in	18,680	16,129	—	—	1 ½	343	7AD79	7AD80	7AD81	7AD82
	20,205	17,856	13,797	—	2	371	7AD83	7AD84	7AD85	7AD86
	23,363	21,332	18,889	—	3	429	—	7AD87	7AD88	—
	27,612	25,893	24,174	21,742	5	507	—	—	7AD90	7AD91
60 in	28,530	26,087	23,172	—	5	485	—	—	7AD92	7AD93
	32,648	30,510	28,398	24,618	7 ½	555	—	—	7AD94	7AD95
	35,942	34,001	32,075	29,935	10	611	—	—	7AD96	7AD97
	41,118	39,421	37,726	36,055	15	699	—	—	7AD98	7AD99
Supply Ventilators										
20 in	3,133	2,755	2,160	1,015	¼	953	7AE25	7AE26	7AE27	7AE28
	3,416	3,077	2,585	1,782	⅓	1,039	7AE29	7AE30	7AE31	7AE32
	4,014	3,742	3,389	2,916	½	1,221	7AE33	7AE34	7AE35	7AE36
24 in	4,054	3,622	2,999	—	¼	923	7CH18	7CH19	7AE58	7CH20
	4,445	4,057	3,534	—	⅓	1,012	7CH21	7CH22	7AE59	7CH23
	5,187	4,863	4,483	—	½	1,181	7CH24	7CH25	7AE60	7CH26
	5,938	5,655	5,352	4,970	¾	1,352	7CH27	7CH28	7AE61	7CH29
30 in	5,712	4,842	—	—	¼	621	7CH30	7CH31	7AE62	7CH32
	6,209	5,444	4,153	—	⅓	675	7CH33	7CH34	7AE63	7CH35
	7,138	6,469	5,627	—	½	776	7CH36	7CH37	7AE64	7CH38
	8,113	7,520	6,891	5,976	¾	882	7CH39	7CH40	7AE65	7CH41
	8,904	8,360	7,837	7,122	1	968	7CH42	7CH43	7AE66	7CH44
36 in	8,073	6,296	3,200	—	⅓	477	7CH45	7CH46	7AE67	7CH47
	9,410	7,953	4,810	—	½	556	7CH48	7CH49	7AE68	7CH50
	10,628	9,360	7,858	5,160	¾	628	7CH51	7CH52	7AE69	7CH53
	11,745	10,624	9,325	7,604	1	694	7CH54	7CH55	7AE70	7CH56
	13,403	12,472	11,360	10,141	1 ½	792	7CH57	7CH58	7AE71	7CH59
42 in	10,813	8,805	5,100	—	½	426	7CH60	7CH61	7AE72	7CH62
	12,235	10,530	7,723	4,280	¾	482	7CH63	7CH64	7AE73	7CH65
	13,530	12,045	10,108	6,750	1	533	7CH66	7CH67	7AE74	7CH68
	15,434	14,187	12,629	10,432	1 ½	608	7CH69	7CH70	7AE75	7CH71
48 in	12,144	9,133	—	—	½	341	7CH75	7CH76	7AE76	7CH77
	13,997	11,659	7,600	—	¾	393	7CH78	7CH79	7AE77	7CH80
	15,279	13,235	9,454	—	1	429	7CH81	7CH82	7AE78	7CH83
	17,487	15,722	13,390	5,380	1 ½	491	7CH84	7CH85	7AE79	7CH86
	19,232	17,644	15,770	12,646	2	540	7CH87	7CH88	7AE80	7CH89
	22,010	20,639	19,176	17,293	3	618	—	—	7AE81	7AE82

*** Drive Package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

CONTINUED

CONTINUED

Hooded Axial Belt-Drive Roof Ventilators

Dayton

Blade Dia.	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.375"	Motor HP	Fan RPM	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed 3-Phase Motor 230/460V, 60 Hz Item No.
Supply Ventilators (Cont.)										
54 in	20,036	17,299	—	—	1 ½	343	**7AE37**	**7AE38**	**7AE39**	**7AE40**
	21,672	19,152	14,798	—	2	371	**z7AE41**	**7AE42**	**7AE43**	**7AE44**
	25,059	22,881	20,260	—	3	429	—	**7AE45**	**7AE46**	**7AE47**
	29,616	27,772	25,928	23,320	5	507	—	—	**7AE48**	**7AE49**
60 in	30,464	27,885	24,743	—	5	485	—	—	**7AE50**	**7AE51**
	34,861	32,579	30,324	26,287	7 ½	555	—	—	**7AE52**	**7AE53**
	38,378	36,306	34,249	31,964	10	611	—	—	**7AE54**	**7AE55**
	43,906	42,094	40,284	38,499	15	699	—	—	**7AE56**	**7AE57**
Reversible Exhaust/Supply Ventilators										
30 in	5,991 cfm	4,604	—	—	⅓	714	**7AU13**	**7AU14**	**7AU15**	**7AU16**
	6,922 cfm	5,863	—	—	½	825	**7AU17**	**7AU18**	**7AU19**	**7AU20**
	7,871 cfm	6,993	5,559	—	¾	938	**7AU21**	**7AU22**	**7AU23**	**7AU24**
	8,659 cfm	7,876	6,790	—	1	1,032	**7AU25**	**7AU26**	**7AU27**	**7AU28**
	9,934 cfm	9,274	8,470	7,292	1 ½	1,184	**7AU29**	**7AU30**	**7AU31**	**7AU32**
	10,908 cfm	10,318	9,638	8,762	2	1,300	**7AU33**	—	**7AU34**	**7AU35**
	12,367 cfm	11,848	11,273	10,619	3	1,474	—	—	—	**7AU36**
36 in	8,494 cfm	6,905	5,034	3,564	½	659	**7CK23**	**7CK24**	**7AE83**	**7CK25**
	9,737 cfm	8,373	6,494	5,227	¾	755	**7CK26**	**7CK27**	**7AE84**	**7CK28**
	10,704 cfm	9,483	8,030	6,653	1	830	**7CK29**	**7CK30**	**7AE85**	**7CK31**
	12,264 cfm	11,244	10,067	7,780	1 ½	951	**7CK32**	**7CK33**	**7AE86**	**7CK34**
	13,490 cfm	12,596	11,515	10,346	2	1,046	**7CK35**	**7CK36**	**7AE87**	**7CK37**
	15,501 cfm	14,745	13,827	12,903	3	1,202	**7AU37**	**7AU38**	**7AU39**	**7AU40**
	18,313 cfm	17,673	16,974	16,167	5	1,420	—	—	**7AU41**	**7AU42**
48 in	14,711 cfm	10,334	—	—	¾	539	**7AU43**	**7AU44**	**7AU45**	**7AU46**
	16,104 cfm	12,397	—	—	1	590	**7AU47**	**7AU48**	**7AU49**	**7AU50**
	18,233 cfm	15,243	10,469	—	1 ½	668	**7AU51**	**7AU52**	**7AU53**	**7AU54**
	20,252 cfm	17,686	13,758	—	2	742	**7AU55**	**7AU56**	**7AU57**	**7AU58**
	23,117 cfm	20,967	18,022	14,147	3	847	**7AU59**	**7AU60**	**7AU61**	**7AU62**
	27,485 cfm	25,802	23,626	20,891	5	1,007	—	—	**7AU63**	**7AU64**

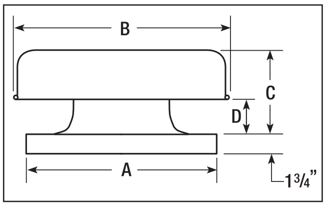
*** Drive Package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

Dayton

Low-Profile Gravity Roof Ventilators

Designed for exhaust or supply applications on natural gravity or positive pressure systems. Low-profile hoods have rigid aluminum, corrosion-resistant construction. Integral birdscreen. Built-in curb cap with prepunched holes for easy attachment to roof curb.

Item No.	Dimensions (in.) A	B	C	D	Recommended Roof Curb Fixed 12"H Item No.	Adj. 12"H Item No.
2RB68	19	20½	7¼	1½	2RB75	2ZV82
2RB69	19	20½	7¼	2	2RB75	2ZV82
2RB70	22	29	10	3½	2RB76	2ZV82
2RB71	26	29	11	4¼	2RB77	2ZV83
2RB72	30	35½	11¼	3¾	2RB79	2ZV83
2RB73	34	38¼	11	4	2RB80	2ZV84



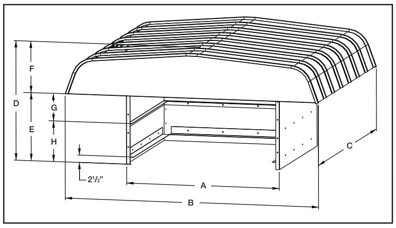
2RB68

CFM/THROAT VELOCITY @ STATIC PRESSURE SHOWN — Gravity Relief @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Gravity Intake @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Max. Intake CFM/Throat Velocity	Item No.
258/697	365/985	408/1102	516/1393	576/1558	199/538	282/761	315/851	398/1077	445/1204	780/2102	**2RB68**
370/650	524/919	586/1027	741/1299	828/1453	312/548	442/775	494/866	624/1096	698/1225	1032/1801	**2RB69**
523/638	740/903	828/1009	1047/1277	1171/1428	448/546	633/772	708/863	895/1092	1001/1221	1512/1848	**2RB70**
973/671	1375/949	1538/1061	1945/1342	2175/1500	829/572	1173/809	1311/904	1658/1144	1854/1279	1812/1258	**2RB71**
1435/638	2029/902	2269/1008	2870/1276	3209/1426	1226/545	1733/770	1938/861	2452/1090	2741/1218	2658/1188	**2RB72**
2101/648	2971/917	3321/1025	4201/1297	4697/1450	1724/532	2438/752	2725/841	3447/1064	3854/1190	2970/926	**2RB73**

Dayton

Hooded Gravity Roof Ventilators

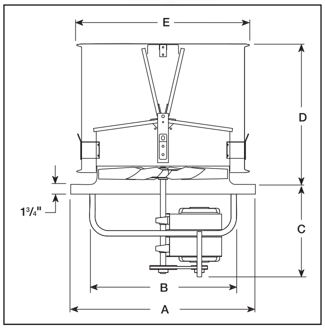
Designed for nonpowered ventilation or can be used in conjunction with powered exhaust, supply, or reversible fans. Strong, weathertight hood is constructed of interlocking, arched, galvanized steel panels. Bird screen and hood come preassembled (except 54" and 60" sizes). Base requires field assembly with included hardware.



1WDN4

Item No.	Dimensions (in.) A	B	C	D	E	F	G	H	Damper Size (in.)	Recommended Accessories Roof Curb Fixed 12"H Item No.	Roof Curb Adj. 12"H Item No.	Gravity Backdraft Damper Item No.
3FKE1	24½	44	48	38	22	16	11½	10½	21 x 21	3FLT5	2ZV83	3HHL6
1WDN3	28½	48	48	38	22	16	11½	10½	25 x 25	3AZH7	2ZV83	2FTV7
1WDN4	34½	57	60	38	22	16	11½	10½	31 x 31	3AZH8	2ZV84	3HHL8
1WDN5	40½	68	60	38	22	16	11½	10½	37 x 37	3AZJ2	2ZV84	3HHN1
1WDN6	46½	78	72	40½	24½	16	10	14½	43 x 43	3AZJ4	2ZV85	6WRK7
1WDN7	54½	90	84	42½	26½	16	12½	14	49 x 49	3AZJ6	2ZV86	6WRK8
3FKE2	60½	96	96	53½	28½	25	14	14½	55 x 55	3FLT6	—	5NKN7
3FKE3	66½	100	108	54½	30½	24	14½	16	61 x 61	3AZJ8	2ZV87	6WRK9

Blade Dia.	CFM/THROAT VELOCITY @ STATIC PRESSURE SHOWN — Gravity Relief @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Gravity Intake @ SP Shown 0.050"	0.100"	0.125"	0.200"	0.250"	Max. Intake CFM/Throat Velocity	Item No.
20 in	1782/509	2520/720	2818/805	3565/1018	3985/1139	1599/457	2201/629	2461/703	3112/889	3480/994	5500/1571	**3FKE1**
24 in	2539/635	3591/898	4015/1004	5079/1260	5678/1420	2443/536	3030/758	3388/847	4285/1071	4791/1198	6069/1239	**1WDN3**
30 in	3646/583	5156/825	5765/922	7292/1167	8153/1304	3153/504	4459/713	4985/798	6306/1009	7050/1128	8784/1301	**1WDN4**
36 in	5128/570	7251/806	8107/901	10,255/1139	11,466/1274	4191/466	5926/658	6626/736	8381/931	9371/1041	11,634/1225	**1WDN5**
42 in	6229/509	8809/719	9849/804	12,458/1017	13,929/1137	5633/460	7967/650	8907/727	11,267/920	12,597/1028	15,476/1214	**1WDN6**
48 in	7695/481	10,882/680	12,167/760	15,390/962	17,207/1075	7300/456	10,324/645	11,542/721	14,600/912	16,323/1020	20,766/1240	**1WDN7**
54 in	12,094/509	17,103/720	19,122/805	24,188/1018	27,043/1139	10,851/457	14,934/629	16,697/703	21,120/889	23,613/994	23,550/992	**3FKE2**
60 in	14,716/509	20,811/720	23,268/805	29,433/1018	32,907/1139	13,204/457	18,172/629	20,317/703	25,699/889	28,733/994	24,660/853	**3FKE3**



Axial Belt-Drive Upblast Exhaust Ventilators

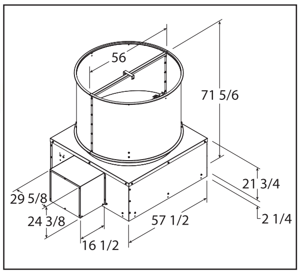
- UL-705 Listed for Power Ventilators
- Max. inlet air temperature: 120°F
- Air handling quality bearings are selected to meet a minimum of L10-100,000 hr.
- 24" propeller dia. units feature sealed pillow block bearings
- 30" propeller dia. and larger units feature regreasable pillow block bearings

For use in industrial and commercial buildings, including warehouses, manufacturing facilities, foundries, and laboratories. Units are highly weather resistant, with housings constructed of heavy-gauge galvanized steel, bolted seams, and reinforced edges for added strength. Drive frames are die-formed, galvanized structural steel, providing a rigid platform for motors, shafts, bearings, and drives. Fabricated steel propellers have steeply pitched blades to generate low sound levels. Integral butterfly dampers prevent unwanted backdrafts and have magnetic latches to minimize damper flutter when not in use. Built-in lifting lugs speed installation; the windband is removable for easy inspection.

Blade Dia.	Dimensions (in.) A	B	C	D	E	Recommended Roof Curb Adj. 12" H Item No.	Fixed 12"H Item No.
24 in	36⅜	28⅜	16	26	31⅛	2ZV84	3AZH9
30 in	38¾	32½	18⅛	30	37⅜	2ZV84	3AZJ1
36 in	44¾	38½	17½	33	43½	2ZV85	3AZJ3
42 in	50½	44¼	20	38	49⅝	2ZV86	3AZJ5
48 in	56¾	50½	20½	40	56	2ZV86	3AZJ7
54 in	66½	61¼	28	45	62⅝	2ZV87	3AZJ8
60 in	72½	66¼	26⅝	48	68¾	2ZV87	3AZJ9

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	Fan RPM	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor, 115/230V, 60 Hz Item No.	Totally Enclosed, 1-Phase Motor, 115/230V, 60 Hz Item No.	Open Dripproof, 3-Phase Motor, 230/460V, 60 Hz Item No.	Totally Enclosed, 3-Phase Motor, 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
24 in	5934	4912	—	—	—	0.33	706	0.4	13.6	7HZ09	7A890	7HZ10	7A895	4YY23
	6791	5985	—	—	—	0.5	808	0.6	16.4	7HZ11	7A891	7HZ12	7A896	
	7766	7078	6127	—	—	0.75	924	0.9	21	7HZ13	—	7HZ14	7A897	
30 in	11,108	9534	7845	—	—	0.75	695	0.9	17.2	7HZ15	7A857	7HZ16	7A871	4YY24
	12,227	10,765	9434	—	—	1	765	1.2	20	7HZ17	7A858	—	7A872	
	14,001	12,739	11,566	10,270	—	1.5	876	1.81	24	—	7A859	—	7A873	
	15,408	14,272	13,148	12,089	—	2	964	2.41	30	—	7A860	7A874	—	
36 in	13,858	11,600	—	—	—	0.75	497	0.9	16.2	7HZ18	7A861	7HZ19	7A875	4YY25
	15,252	13,326	—	—	—	1	547	1.2	19.2	7HZ20	7A862	7HZ21	7A876	
	17,455	15,884	13,659	—	—	1.5	626	1.8	24	7HZ22	7A863	7HZ23	7A877	
	19,212	17,866	15,917	13,659	—	2	689	2.4	29	7HZ24	7A864	7HZ25	7A878	
42 in	21,814	19,068	14,632	—	—	1.5	482	1.81	21	7HZ26	7A865	7HZ27	7A879	4YY26
	23,987	21,470	18,061	11,471	—	2	530	2.41	24	7HZ28	7A866	7HZ29	7A880	
	27,472	25,246	22,743	19,228	12,915	3	607	3.61	29	—	—	7HZ30	7A881	
	32,495	30,584	28,793	26,363	23,522	5	718	5.98	39	—	—	7HZ31	7A882	
48 in	25,517	22,356	17,815	—	—	1.5	399	1.81	15.8	7HZ32	7A868	7HZ33	7A883	4YY27
	28,075	25,312	21,501	14,614	—	2	439	2.4	18.8	7HZ34	7A869	7HZ35	7A884	
	32,104	29,829	26,528	23,376	16,326	3	502	3.61	24	—	—	7HZ36	7A885	
	37,987	36,154	33,838	30,758	28,240	5	594	5.98	29	—	—	7HZ37	7A886	
54 in	33,788	28,700	17,378	—	—	2	366	2.61	17	7HZ38	7A900	7A904	—	4YY28
	37,655	33,239	25,221	—	—	3	408	3.62	22	7HZ39	7A901	7HZ40	7A905	
	44,589	41,195	36,770	25,204	20,392	5	483	5.97	29	—	7A902 ‡	7HZ41	7A906	
	50,958	48,034	44,312	40,154	28,469	7.5	552	8.98	39	—	7A903 ‡	7HZ42	7A907	
60 in	43,011	36,740	—	—	—	3	337	3.6	22	7HZ43	7A908	7HZ44	7A911	4YY29
	51,052	46,295	39,734	—	—	5	400	6.0	25	—	7A909 ‡	7HZ45	7A912	
	58,455	54,801	49,056	—	—	7.5	458	9.05	31	—	7A910 ‡	7HZ46	7A913	
	64,326	61,083	58,176	50,976	—	10	504	12.05	43	—	—	7HZ47	7A914	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed. ‡ 230V only.*



Emergency Smoke Exhaust Ventilators

- Spring-loaded damper lifters meet UL-793 Snow Load Rating
- UL Listed for Emergency Smoke Control
- Max. inlet air temperature: 120°F continuous operation; 500°F for 4 hr.; 1000°F for 15 min.
- High-temperature regreasable pillow block bearings

For use in industrial and commercial buildings such as manufacturing facilities, foundries, and laboratories. Heavy-gauge, galvanized steel fans feature a 165°F fusible link on damper lifters. Belt tubes have heat shields. Magnetic damper latches prevent positive pressure from lifting dampers. Windbands have lifting lugs. Roof curb required for new installations.

Blade Dia.	CFM Air Delivery @ Static Pressure Shown* 0.000"	0.125"	0.250"	0.375"	0.500"	Motor HP	Fan RPM	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	Recommended Roof Curb, Adj. 12"H Item No.	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed 3-Phase Motor, 208-230/460V, 60Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
48 in	25,642	22,583	18,650	—	—	2	433	2.2	18.4	2ZV86	7M7V3	2RB67
	29,373	26,836	23,563	19,730	—	3	496	3.31	23	2ZV86	7M7V4	
	34,761	32,809	30,166	27,319	24,091	5	587	5.49	29	2ZV86	7M7V5	

** Performance certified is for installation type A: free inlet, free outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA standard 301. Values shown are for installation Type A: free inlet fan sone levels. ** Drive package consists of appropriate motor, belts, and sheaves to obtain performance listed.*

Whole House Fans

These fans circulate fresh air through a home to freshen the indoor air and cool the home without turning on air conditioning which helps lower utility costs.

Energy-Saving Quiet-Design Whole House Fans— Have an electronically commutated (EC) motor and use less energy than whole house fans with a PSC motor. They produce less noise than standard whole house fans. These fans pull in fresh air through open windows and exhaust stale air through ventilation openings in the attic.

Quiet-Design Whole House Fans—Produce less noise compared to standard whole house fans and have a PSC motor for smooth, soft, start-ups. Fans pull in fresh air through open windows and exhaust stale air through ventilation openings in the attic.

Standard Whole House Fans— Mount to a ceiling and have a permanent split-capacitor (PSC) motor for smooth, soft, start-ups. Fans pull in fresh air through open windows and exhaust stale air through ventilation openings in the attic.

Window-Mount Whole House Fans—Mount to window trim to circulate fresh air through a home where it is not possible to install permanent attic-mounted whole house fans. They do not require a hole to be cut in the ceiling and the window can be closed behind the fan to secure the home or keep bad weather out.

45AM65

1LXN7

3C614

Blade Dia.	Coverage (sq. ft.)	Noise Level @ 0.000 in SP @ 5 ft	CFM High	CFM Low	Fan Voltage	Motor Horsepower	Motor Type	Motor Encl.	Brand	Mfr. Model	Item No.
Energy-Saving Quiet-Design Whole House Fans											
16 in	1,030 to 1,540	3.8 sones	3,081	2,020	120V AC	—	Electronically Commutated	Open Dripproof	Quietcool	QC ES-3100	**45AM65**
18 in	1,400 to 2,095	3.8 sones	4,195	2,304	120V AC	—	Electronically Commutated	Open Dripproof	Quietcool	QC ES-4700	**45AM68**
Quiet-Design Whole House Fans											
16 in	1,075 to 1,605	4.4 sones	3,126	2,847	120V AC	—	—	Open Dripproof	Quietcool	QC CL-3100	**32NA76**
18 in	1475 to 2205	4.4 sones	4,415	3,402	120V AC	—	—	Open Dripproof	Quietcool	QC CL-4700	**32NA78**
Standard Whole House Fans											
24 in	800	14 sones	3,700	2,500	115V AC	⅓ hp	Split-Phase	Open Dripproof	Dayton	2EAX5	**2EAX5**
24 in	800	17 sones	4,700	3,500	115V AC	¼ hp	Permanent Split Capacitor	Open Dripproof	Dayton	3EAU1	**3EAU1**
30 in	1,200	14 sones	7,600	5,100	115V AC	⅓ hp	Split-Phase	Open Dripproof	Dayton	1LXN7	**1LXN7**
30 in	1,000	17 sones	6,000	4,500	115V AC	¼ hp	—	Open Dripproof	Dayton	3EAU2	**3EAU2**
36 in	2,500	12 sones	10,600	7,100	115V AC	½ hp	Split-Phase	Open Dripproof	Dayton	1LXN8	**1LXN8**
42 in	3,200	15 sones	12,600	8,400	115V AC	½ hp	Split-Phase	Open Dripproof	Dayton	2EAX4	**2EAX4**
Window-Mount Whole House Fans											
20 in	1,000	4.6 sones	3,560	2,510	120V AC	1/6 hp	Single Phase	Totally Enclosed Air Over	Air King	9166	**3C614**

Ceiling Truss Shutters and Ceiling Shutters

Fit flush in ceiling opening below whole-house fans. Tie rods at each side of shutter assure uniform opening when fan is operating. White extruded aluminum frame with 1½" flange and 3⁄16" dia. mounting holes. White louvers with felted edges. Truss shutters install without framing or cutting ceiling joist.

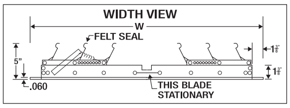
Economy—Max. velocity: 1500 fpm. Nylon fasteners for quiet operation.

Premium—Max. velocity: 2250 fpm. Louvers reinforced with galvanized steel strip.

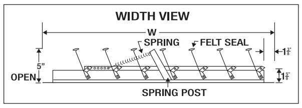
Optional Shutter Motor—Not for use with truss shutters. Relieves starting load on fan motor by automatically opening and closing shutter. 60 Hz, 120/240V. Overall dim.: 8½"H x 4½"W x 7½"D. Includes installation hardware.

Ceiling Shutter Cover—Insulated cover helps reduce energy costs by stopping air infiltration and reducing heating and cooling loss. Features easy hook-and-loop attachment, and a trim-to-fit design for a customized installation. White front and reflective foil back.

Fits Fan Dia.	L	W	Shutter Opening Required	Shutter Free Area	For Use With	Item No.
Economy Ceiling Truss Shutters						
24 in	26 in	32 in	24 in x 30 in	3.323 sq ft	24" Whole House Fans	**3C510**
24 in	30 ¾ in	29 11⁄16 in	28¾ in x 27 11⁄16 in	4.425 sq ft	3C545	**4HA10**
30 in	30 ¾ in	35 ⅞ in	28¾ in x 33⅞ in	5.435 sq ft	3C374, 3C546, 5M155	**4HA11**
30 in	32 in	32 in	30 in x 30 in	4.652 sq ft	30" Whole House Fans	**3C511**
36 in	36 in	32 in	34 in x 30 in	5.981 sq ft	36" Whole House Fans	**3C512**
36 in	37 ¾ in	36 in	35¾ in x 34 in	7.126 sq ft	3C375, 5M156	**4HA12**
Economy Ceiling Shutters						
24 in	26 in	26 in	24 in x 24 in	3.631 sq ft	24" Whole House Fans	**3HHR2**
30 in	32 in	32 in	30 in x 30 in	5.316 sq ft	30" Whole House Fans	**3HHR3**
36 in	36 in	36 in	34 in x 34 in	7.293 sq ft	36" Whole House Fans	**3HHR4**
Premium Ceiling Truss Shutters						
24 in	32 in	26 in	30 in x 24 in	4.652 sq ft	24" Whole House Fans	**3HHR6**
30 in	35 in	32 in	33 in x 30 in	5.162 sq ft	30" Whole House Fans	**3HHR7**
42 in	42 in	40 in	40 in x 38 in	8.168 sq ft	42" Whole House Fans	**3HHR8**
42 in	43 in	32 in	41 in x 30 in	6.523 sq ft	42" Whole House Fans	**3HHR9**
Premium Ceiling Shutters						
24 in	26 in	26 in	24 in x 24 in	3.112 sq ft	24" Whole House Fans	**4C224**
30 in	32 in	32 in	30 in x 30 in	4.652 sq ft	30" Whole House Fans	**4C225**
36 in	35 in	40 in	33 in x 38 in	8.112 sq ft	36" Whole House Fans	**3HHR5**
36 in	38 in	38 in	36 in x 36 in	7.293 sq ft	36" Whole House Fans	**4C228**
42 in	44 in	44 in	42 in x 42 in	9.562 sq ft	42" Whole House Fans	**3C242**
48 in	50 in	50 in	48 in x 48 in	13.224 sq ft	48" Whole House Fans	**3C243**
Optional Shutter Motor						
For Use with Dayton Premium Ceiling Shutters						**24N066**
Ceiling Shutter Cover, Attic Armour						
48"L x 48 in"W, Trim to Fit						**2NXJ9**



Ceiling Truss Shutter



Ceiling Shutter

Truss
3C510

Premium
4C225

Backdraft Dampers/Gable Shutters

- Max. velocity: 1500 fpm
- 1½" flange

Designed for use with gable-mounted power attic ventilators, these shutters feature aluminum construction and flush mount to ease installation. They also open automatically when ventilators are running. Weather stripping on blades helps provide a positive seal when not in use. Tie rods on blades help to ensure uniform opening while fans are operating. Shutters are not for use with solar-powered, automatic gable-mount attic ventilators.

4YN20

Blade Material	Fits Fan Dia.	Shutter Overall Size	Shutter Opening Required	Shutter Free Area	Item No.
Mill Finish Aluminum	16 in	19 in x 19 in	17 in x 17 in	1.402 sq ft	**3HHR1**
White Painted Aluminum	16 in	19 in x 19 in	17 in x 17 in	1.402 sq ft	**4YN20**

How to Select Power Attic Ventilators

For proper attic ventilation, the Home Ventilation Institute recommends a system that provides at least 10 air exchanges per hour. Use the following formula to determine the fan capacity (cu. ft. per min., cfm) needed to provide this minimum airflow:

Attic Square Feet x 0.7 = cfm

Note: For roofs pitched 7/12 or higher, you may want to add 20% more cfm capacity to handle the larger volume of attic space; 30% more for roofs 11/12 and higher.

Gable Mounted 10W199

Garage Mounted 45AM66

Roof Mounted 10N201

120V Attic Ventilators

- Automatic control

These attic ventilators turn on automatically and provide proper airflow to help prevent heat and moisture buildup. They can reduce energy costs by circulating air, cooling attics, and reducing overall air conditioner strain.

Max. Attic Area	CFM @ 0.000" SP	Amps	Included with Ventilator	Brand	Mfr. Model	Item No.
Gable Mounted						
1,500 sq ft	1060	1.0	Guard, Thermostat	Dayton	347HY1	**347HY1**
1,500 sq ft	1095	1.0	Guard, Shutter, Thermostat	Dayton	347HX9	**347HX9**
1,600 sq ft	800	1.4	Guard, Shutter, Thermostat	Dayton	347HX8	**347HX8**
1,630 sq ft	1220	3.1	Thermostat	Dayton	10W193	**10W193**
1,630 sq ft	1220	3.1	Humidistat, Thermostat	Dayton	10W198	**10W198**
1,900 sq ft	1380	3	Thermostat	Dayton	10W196	**10W196**
1,900 sq ft	1380	3	Humidistat, Thermostat	Dayton	10W201	**10W201**
2,300 sq ft	1650	3.15	Thermostat	Dayton	10W194	**10W194**
2,300 sq ft	1650	4	Humidistat, Thermostat	Dayton	10W195	**10W195**
2,300 sq ft	1650	4	Thermostat	Dayton	10W197	**10W197**
2,300 sq ft	1650	4	Humidistat, Thermostat	Dayton	10W199	**10W199**
2,300 sq ft	1860	1.3	Guard, Shutter, Thermostat	Dayton	347HY0	**347HY0**
3,000 sq ft	1495	1.9/0.6	Accessory Bag, Smart Control Hub, Vent Covers	Quietcool	AFG SMT PRO-2.0	**60RG26**
3,000 sq ft	1947	1.9 A	Thermostat	Quietcool	AFG PRO-2.0	**787L79**
4,000 sq ft	2801	2.1/1.0/0.3	Accessory Bag, Smart Control Hub	Quietcool	AFG SMT ES-3.0	**60RG28**
4,000 sq ft	2860	2.1/1.4	Accessory Bag, Smart Control Hub, Vent Covers	Quietcool	AFG SMT PRO-3.0	**60RG27**
Garage Mounted						
2,300 sq ft	1452	—	Guard, Thermostat	Quietcool	GA ES-1500	**45AM66**
Roof Mounted						
2,100 sq ft	1500	2.3	Thermostat	Dayton	10N201	**10N201**
2,100 sq ft	1500	2.3	Humidistat, Thermostat	Dayton	10N202	**10N202**
2,285 sq ft	1600	8	Guard	Broan	356BK	**39W620**
3,000 sq ft	2116	2.3/1.1/0.3	Accessory Bag, Smart Control Hub	Quietcool	AFR SMT ES-2.0	**60RG29**

Blade Material	Shutter Opening Required	Fits Fan Dia.	Mfr. Model	Item No.
Backdraft Damper / Gable Shutters				
White Painted Aluminum	17 in x 17 in	16 in	4YN20	**4YN20**
Mill Finish Aluminum	17 in x 17 in	16 in	3HHR1	**3HHR1**

Gable Mounted 787L77

Roof Mounted 4YCK9

Solar-Powered Attic Ventilators

These ventilators install without the need for wiring or electrical hookup and operate during peak daylight hours to help increase airflow and remove moisture. The solar panels are resistant to wind, hail, and other environmental hazards.

Max. Attic Area	CFM @ 0.000" SP	Includes	Control Method	Dome Material	Brand	Mfr. Model	Item No.
Gable Mounted							
2,600 sq ft	1217	Thermostat, 40 Watt Solar Panel, Accessory Bag	Automatic	—	Quietcool	AFG SLR-40W	**787L77**
Roof Mounted							
1,550 sq ft	1000	Detached Solar Panel, 25 ft Cord	Manual	Mill Finish Galvanized Steel	Maxx Air	VX1000SOLMILUPS	**4YCK9**
1,550 sq ft	1000	Detached Solar Panel, 25 ft Cord	Manual	Black Galvanized Steel	Maxx Air	VX1000SOLBLKUPS	**4YCL1**
1,550 sq ft	1000	Detached Solar Panel, 25 ft Cord	Manual	Brown Galvanized Steel	Maxx Air	VX1000SOLBRNUPS	**4YCL2**
1,550 sq ft	1000	Detached Solar Panel, 25 ft Cord	Manual	Weathered Gray Galvanized Steel	Maxx Air	VX1000SOLWGUPS	**4YCL3**
1,550 sq ft	1000	Detached Solar Panel, 25 ft Cord	Manual	—	Maxx Air	VX2515SOLUPS	**4YCL4**
1,900 sq ft	791	Thermostat, Accessory Bag	Automatic	—	Quietcool	AFR SLR-40W	**787L78**
3,200 cu ft	537	—	Automatic	Black Acrylic ABS Plastic	Broan	345SOBK	**20AZ87**
3,200 cu ft	537	—	Automatic	Weather Wood Acrylic ABS Plastic	Broan	345SOWW	**20AZ88**

2C531

4C505

Wind-Driven Turbine Attic Ventilators

Externally braced for strength and perfect alignment. Bronze, oil-impregnated top bearing. The 4", 6", and 8" vents have a bottom thrust-type pivot bearing with a hardened steel ball riding in a hardened steel seat. The 10" and larger vents use a bottom thrust-type ball bearing. Galvanized steel construction with aluminum bracing on 4" to 14" units; galvanized steel bracing on 16" to 24" units.

Optional adjustable Base 4C505 allows vertical mounting of Ventilator 2C531 on 0/12 to 7/12 pitch roofs. Includes 20" x 20" flashing for weatherproof installation.

Throat Dia.	CFM @ 4 mph Wind	Overall Height	Overall Width	Mfr. Model	Item No.
Ventilators					
4 in	126 cfm	12 in	10 ¼ in	TV04G	**4C016**
6 in	147 cfm	14 ½ in	12 ¾ in	TV06G	**2C528**
8 in	255 cfm	15 in	14 ¼ in	TV08G	**2C529**
10 in	425 cfm	16 ¼ in	16 ¼ in	TV10G	**2C530**
12 in	631 cfm	17 in	19 in	TV12G	**2C531**
14 in	700 cfm	19 ¾ in	22 ¾ in	TV14G	**2C532**
16 in	950 cfm	21 ¾ in	25 ½ in	TV16G	**2C533**
18 in	1,200 cfm	24 in	29 in	TV18G	**2C534**
20 in	1,700 cfm	25 13/64 in	31 ⅝ in	TV20G	**2C802**
24 in	2,350 cfm	28 ¼ in	35 ¾ in	TV24G	**2C803**

Description	Mfr. Model	Item No.
Accessories		
Adjustable Roof Base, 6", For Use With 2C528	AB06G	**33MH61**
Adjustable Roof Base, 8",	AB08G	**33PM38**
Adjustable Roof Base, 10", For Use With 2C530	AB10G	**33PM39**
Adjustable Roof Base, 12", For Use with 2C531	AB12G	**4C505**
Flat Roof Base, 4", For Use With 4C016	FB04G	**33PM40**
Flat Roof Base, 6", For Use With 2C528	FB06G	**33PM41**
Flat Roof Base, 8", For Use With 2C529	FB08G	**33PM42**
Flat Roof Base, 10", For Use With 2C530	FB10G	**33PM43**
Flat Roof Base, 12", For Use With 2C531	FB12G	**33PM44**
Flat Roof Base, 14", For Use With 2C532	FB14G	**33MH59**
Flat Roof Base, 16", For Use With 2C533	FB16G	**33PM45**
Flat Roof Base, 18", For Use With 2C534	FB18G	**33MH58**
Flat Roof Base, 20", For Use With 2C802	FB20G	**33PM46**
Flat Roof Base, 24", For Use With 2C803	FB24G	**33MH60**
Bearing Repair Kit, 4" to 14" Turbines, For Use With 2C528, 2C529, 2C530, 2C531, 2C532, 4C016	3WAY	**33PM47**
Bearing Repair Kit, 16" to 20" Turbines, For Use With 2C533, 2C534, 2C802	4WAY20	**33PM48**
Bearing Repair Kit, 24" Turbines, For Use With 2C803	4WAY24	**33PM49**

Dayton Commercial/Industrial-Duty Air Curtain Selection Guide

Because no single air curtain cabinet is 100"W, use one 6E822 (60") and one 6E824 (42") to span a 100"W opening. It is acceptable for cabinets to be slightly wider than the opening. Each cabinet requires a blower assembly.

Use Table A to determine the horsepower (HP) of the blower required for your air curtain cabinet. Blower HP is determined by mounting height, purpose of the air curtain (thermal barrier, etc.), and the wind speed that the air curtain is expected to neutralize.

For extreme conditions (gusty winds or heavy insect control), select a blower HP 1 size larger than what the table recommends. Indoor installations assume a wind speed of 5 mph, unless otherwise specified.

After selecting the HP for your application, use Table B to find the blower stock number that matches the available electrical power. See this page for complete electrical specifications for each blower. Air curtain overlap of door openings is acceptable.

Blower Selection Example:

Assume a 10-ft.-high x 100"-wide opening into a walk-in cooler, and an available 120V, 1-phase electrical circuit to operate the air curtain.

In Table A, find **Walk-In Cooler**. In column labeled **10 ft.**, find ½ HP across from 5 mph wind speed (indoor installations assume 5 mph). Knowing that a ½-HP blower is required, use Table B to find 2 possibilities: 6E820 and 6E817. Select two 6E820 blower assemblies (120V, 1-phase), 1 for each cabinet.

Table A: Determine Blower HP @ Mounting Height (ft.)

Wind Speed (mph)	Thermal Barrier 8 ft.	Thermal Barrier 10 ft.	Insect Control 8 ft.	Insect Control 10 ft.	Walk-In Cooler 8 ft.	Walk-In Cooler 10 ft.	Walk-In Freezer 8 ft.	Walk-In Freezer 10 ft.
5	1⁄10 to ⅛	½	½	¾	¼	½	½	¾
8	¼	½ to ¾	½	¾	—	—	—	—
12	—	—	¾	1	—	—	—	—
15	—	—	1	1½	—	—	—	—

Table B: Determine Blower Model No.

HP	120V 1 Ph	208-230/460V 3 Ph
1⁄10	4HZ94 *	—
⅛	4YP01 *	—
⅛	4HZ95 *	—
⅛	4YP02 *	—
¼	6E821	—
½	6E820	6E817
1	—	6E816
1½	—	6E815

** Complete air curtain; see below for specifications.*

Dayton®

Commercial/Industrial-Duty Air Curtain Cabinets

Modular cabinets accept any of the blowers on this page, and may be mounted in series to accommodate openings from 3 to 12 ft. wide. A 96"-wide door, for example, would use two 48"-wide air curtains. A complete air curtain consists of 1 air curtain cabinet and 1 blower.

Note: Find information on Air Curtains and Accessories at Grainger.com and search for "air curtains".

W	H	D	Item No.
Air Curtain Cabinets - Painted Steel			
36 in	15 ¾ in	13 in	**6E826**
38 in			**6E825**
42 in			**6E824**
48 in			**6E823**
60 in			**6E822**
Air Curtain Cabinets - Stainless Steel			
36 in	15 ¾ in	13 in	**4YN98**
48 in			**4YN99**

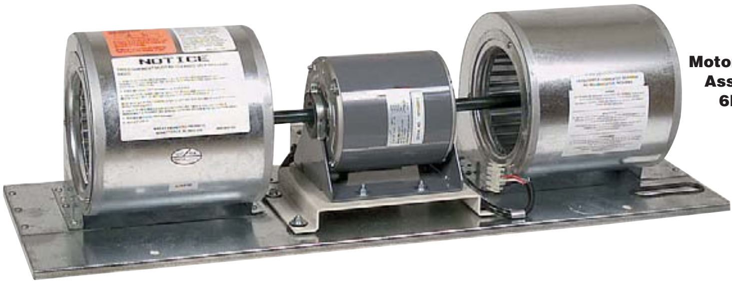
6E825

Dayton®

Blowers for Air Curtain Cabinets

Installation in air curtain cabinet requires no tools, just wing nuts and quick disconnect. All blowers fit Dayton air curtain cabinets 6E822 to 6E826, 4YN98, and 4YN99 (shown above). Multiple use allowable with up to 3 cabinets in series.

Note: Find information on Air Curtains and Accessories at Grainger.com and search for "air curtains".



Motor/Blower Assembly 6E820

Motor HP	Air Velocity	Avg. CFM at Nozzle 36"	38"	42"	48"	60"	Max. Amps	Max. RPM	Max. Mount. Height	Voltage	Hz	Phase	Item No.
¼ hp	4,650 fpm	2,025 cfm	2,025 cfm	2,360 cfm	2,700 cfm	3,375 cfm	3.4	1,100	8 ft	115	60	1	**6E821**
½ hp	4,850 fpm	3,075 cfm	3,250 cfm	3,600 cfm	4,100 cfm	5,130 cfm	5.2	1,745	10 ft	115	60	1	**6E820**
½ hp	3,800 fpm	3,075 cfm	3,250 cfm	3,600 cfm	4,100 cfm	5,130 cfm	1.5/0.75	1,450	10 ft	208-230/460	60	3	**6E817**
¾ hp	4,850 fpm	3,930 cfm	4,150 cfm	4,585 cfm	5,240 cfm	6,550 cfm	7.8	1,480	12 ft	115	60	1	**6E819**
1 hp	5,250 fpm	3,930 cfm	4,150 cfm	4,585 cfm	5,240 cfm	6,550 cfm	3.4/1.75	1,725	12 ft	208-230/460	60	3	**6E816**
1 ½ hp	5,900 fpm	4,748 cfm	5,050 cfm	5,575 cfm	6,375 cfm	7,965 cfm	3.5/1.95	3,450	14 ft	208-230/460	60	3	**6E815**

Dayton®

Compact and Drive-Through Window Air Curtains

- 120V
- Each unit is complete with blower

COMPACT LOW PROFILE

For transoms and other openings requiring a thermal barrier. Use up to 3 curtains in series for wider spans. Maximum distance from nozzle to floor is 8 ft. 120V 2-speed motor. 2-speed switch included.

DRIVE-THROUGH WINDOW

Prevents entry of dust, fumes, and insects. Great for service windows 30" wide or less. Maximum distance from nozzle to counter is 5 ft. 120V single-speed totally enclosed motor. 3-prong grounded plug.

4YP01

Air Curtain Max. Door Width	Max. Mount. Height	W	H	D	Air Curtain Air Velocity	Air Curtain Air Volume	Motor HP	Max. Amps	Max. RPM	Item No.
Compact Low Profile Air Curtains										
3 ft	8 ft	36 in	7 ⅜ in	6 ¾ in	1800/1350 fpm	1050/790 cfm	1⁄10 hp	1.1	1,700	**4HZ94**
3.5 ft	8 ft	42 in			1800/1350 fpm	1200/900 cfm	⅛ hp	1.6	1,600	**4YP01**
4 ft	8 ft	48 in			1800/1350 fpm	1350/1010 cfm	⅛ hp	1.6	1,600	**4HZ95**
5 ft	8 ft	60 in			1800/1350 fpm	1700/1280 cfm	⅛ hp	1.9	1,600	**4YP02**
Drive-Through Window Air Curtain										
2 ft	5 ft	25 in	7 ⅜ in	6 ¾ in	1350 fpm	550 cfm	1⁄10 hp	0.9	1,700	**3KB43**

6JGF3

6JGF7

6JGE3

6JGT2

BERNER INTERNATIONAL

Air Curtains

Provide a sustainable solution that helps lower energy costs by eliminating untempered outside air from entering through open doors. A sanitary solution that deters flying insects from entering through open doors. Models use an invisible air barrier to protect the opening and are safer than plastic vinyl strip curtains.

Drive-Through Window, Unheated and Drive-Thru Window, Heated—Air curtains help reduce infiltration of fumes and insects, and maintain comfort at drive-up windows. For indoor use.
- Corded models

Low-Profile, NSF 37, Unheated and Low-Profile, 2-Speed, Heated—Help increase energy savings, comfort, and insect control. Heated models for front or rear entry doors; unheated units for rear entry doors. Heated models are for indoor use. Unheated models are for indoor/outdoor use and UL-EPH Listed per NSF Standard 37.
- Hardwired

Multipurpose, NSF 37, Unheated and Multipurpose, 3-Speed, Heated—Provide energy savings, comfort, and insect control. Heated models for front or rear entry doors; unheated units for rear entry doors. AMCA Certified air performance. Heated models are for indoor use. Unheated models are for indoor/outdoor use and UL-EPH Listed per NSF Standard 37.
- Hardwired

Multipurpose, High Velocity, Unheated—Block entry of wind and insects, and help increase energy savings and comfort. Ideal for shipping/receiving and loading dock doors. AMCA Certified air performance.
- Hardwired

X = ITEM(S) INCLUDED WITH PURCHASE	Drive-Thru Window, Unheated & Drive-Thru Window, Heated	Low-Profile, Unheated, NSF 37 & Multipurpose, NSF 37, Unheated	Low-Profile, 2-Speed, Heated & Multipurpose, 3- Speed, Heated	Multipurpose, High Velocity, Unheated
6 Ft, 3 Prong Cord; Factory Wired On/Off Switch; Universal Mounting Bracket	X			
Door Switch, Plunger Type (Line Voltage)		X		X
Factory Mounted / Wired Control Panel				X
Transformer (Three Phase to 24V); Adjustable Time Delay; Magnetic Reed Door Switch (24V); Thermostat			X	

Air Curtain Max. Door W	Air Curtain Max. Mount. H	Air Curtain Air Volume	Air Curtain dBA @ 10 ft.#	Heat kW	H	D	No. of Motors	Voltage	Max. Amps	Mfr. Model	Item No.	Voltage	Max. Amps	Mfr. Model	Item No.
Drive-Through Window, Unheated, 1-Phase															
1.5 ft	3 ft	135 cfm	51 dBA	—	7"	7 ¾"	1	115	1.6	DTU03-1018AA	**6JGF3**	—	—	—	—
2 ft	3 ft	200 cfm	52 dBA	—	7"	7 ¾"	2	115	2.2	DTU03-2026AA	**6JGF4**	—	—	—	—
Drive-Through Window, Heated, 1-Phase															
1.5 ft	3 ft	135 cfm	51 dBA	2 kW	7"	7 ¾"	1	115	18.3	DTU03-1018EA	**6JGF5**	—	—	—	—
2 ft	3 ft	200 cfm	52 dBA	2 kW	7"	7 ¾"	2	115	18.9	DTU03-2026EA	**6JGF6**	—	—	—	—
Low-Profile, NSF 37 , Unheated, 1-Phase															
3 ft	7 ft	1020 cfm	54 dBA	—	8 ½"	8"	1	115/208-240	3.4/1.7 to 1.7	SLC07-1036AC-G	**6JGF7**	—	—	—	—
3.5 ft	7 ft	1188 cfm	54 dBA	—	8 ½"	8"	1	115/208-240	3.4/1.7 to 1.7	SLC07-1042AC-G	**6JGF8**	—	—	—	—
4 ft	7 ft	1360 cfm	54 dBA	—	8 ½"	8"	1	115/208-240	3.4/1.7 to 1.7	SLC07-1048AC-G	**6JGF9**	—	—	—	—
6 ft	7 ft	2031 cfm	54 dBA	—	8 ½"	8"	1	115/208-240	3.4/1.7 to 1.7	SLC07-1072AC-G	**6JGG0**	—	—	—	—
Low-Profile, 2-Speed, Heated, 1-Phase															
3 ft	8 ft	1005 cfm	54 dBA	7.5 kW	8 ½"	13 ½"	1	208	37.8	CLC08-1036EB-075-G	**48WL58**	240	33.0	CLC08-1036EJ-075-G	**48WL61**
4 ft	8 ft	1340 cfm	54 dBA	8.1 kW	8 ½"	13 ½"	1	208	40.6	CLC08-1048EB-081-G	**48WL59**	240	35.5	CLC08-1048EJ-081-G	**48WL62**
6 ft	8 ft	2010 cfm	54 dBA	8 kW	8 ½"	13 ½"	1	208	40.2	CLC08-1072EB-080-G	**48WL60**	—	—	—	—
6 ft	8 ft	2010 cfm	54 dBA	11.2 kW	8 ½"	13 ½"	1	—	—	—	—	240	48.4	CLC08-1072EJ-112-G	**48WL63**
Low-Profile, 2-Speed, Heated, 3-Phase															
3 ft	8 ft	1005 cfm	54 dBA	10 kW	8 ½"	13 ½"	1	208	29.5	CLC08-1036EX-100-G	**36WK02**	460	12.9	CLC08-1036EZ-100-G	**36WK05**
4 ft	8 ft	1340 cfm	54 dBA	10.8 kW	8 ½"	13 ½"	1	208	31.7	CLC08-1048EX-108-G	**36WK03**	460	13.9	CLC08-1048EZ-108-G	**36WK06**
6 ft	8 ft	2010 cfm	54 dBA	15 kW	8 ½"	13 ½"	1	208	43.3	CLC08-1072EX-150-G	**36WK04**	460	18.9	CLC08-1072EZ-150-G	**36WK07**
Multipurpose, NSF 37, Unheated, 1-Phase															
3 ft	7 ft	1804 cfm	67 dBA	—	14 ¾"	14 ½"	1	115/208-240	7.5/3.8 to 3.8	SHD07-1036AC-P-G	**6JGE3**	—	—	—	—
3.5 ft	7 ft	1784 cfm	67 dBA	—	14 ¾"	14 ¼"	1	115/208-240	7.5/3.8 to 3.8	SHD07-1042AC-P-G	**6JGE4**	—	—	—	—
4 ft	7 ft	1768 cfm	67 dBA	—	14 ¾"	14 ¼"	1	115/208-240	7.5/3.8 to 3.8	SHD07-1048AC-P-G	**6JGE5**	—	—	—	—
6 ft	7 ft	3608 cfm	69 dBA	—	14 ¾"	14 ¼"	2	115/208-240	15.0/7.6 to 7.6	SHD07-2072AC-P-G	**6JGE6**	—	—	—	—
Multipurpose, 3-speed, Heated, 3-Phase															
3 ft	10 ft	1812 cfm	67 dBA	10 kW	14 ¾"	14 ¼"	1	208	31.3	CHD10-1036EX-100-3X-G	**6JGE7**	460	13.4	CHD10-1036EZ-100-3X-G	**6JGF0**
4 ft	10 ft	1882 cfm	67 dBA	10 kW	14 ¾"	14 ¼"	1	208	31.3	CHD10-1048EX-100-3X-G	**6JGE8**	460	13.4	CHD10-1048EZ-100-3X-G	**6JGF1**
6 ft	10 ft	3624 cfm	69 dBA	15 kW	14 ¾"	14 ¼"	2	208	51.4	CHD10-2072EX-160-3X-G	**6JGE9**	460	22	CHD10-2072EZ-160-3X-G	**6JGF2**
Multipurpose, High Velocity, 3-Speed, Heated, 1-Phase															
3 ft	10 ft	1687 cfm	67 dBA	8 kW	14 ¾"	14 ¼"	1	208	42.0	CHD10-1036EB-080-3X-G	**48WL64**	240	36.8	CHD10-1036EJ-080-3X-G	**48WL66**
4 ft	10 ft	1718 cfm	67 dBA	8 kW	14 ¾"	14 ¼"	1	208	42.0	CHD10-1048EB-080-3X-G	**48WL65**	240	36.8	CHD10-1048EJ-080-3X-G	**48WL67**
Multipurpose, High Velocity, Unheated, 1-Phase															
6.5 ft	12 ft	3095 cfm	63	—	15"	18"	2	115	13.0	IDC12-2078AA-G	**6JGG2**	208/230	7.0/7.0	IDC12-2078ABJ-G	**6JGH2**
6.5 ft	14 ft	4882 cfm	65 dBA	—	15"	18"	2	115	25.2	IDC14-2078AA-G	**6JGN2**	208/230	13.0/13.0	IDC14-2078ABJ-G	**6JGP2**
8 ft	14 ft	5070 cfm	65 dBA	—	15"	18"	2	115	25.2	IDC14-2096AA-G	**6JGN4**	208/230	13.0/13.0	IDC14-2096ABJ-G	**6JGP4**
8 ft	12 ft	4332 cfm	66 dBA	—	15"	18"	3	115	19.5	IDC12-3096AA-G	**6JGG5**	208/230	10.5/10.5	IDC12-3096ABJ-G	**6JGH5**
8 ft	14 ft	6865 cfm	69 dBA	—	15"	18"	3	115	37.8	IDC14-3096AA-G	**6JGN5**	208/230	19.5/19.5	IDC14-3096ABJ-G	**6JGP5**
9 ft	12 ft	4536 cfm	66 dBA	—	15"	18"	3	115	19.5	IDC12-3108AA-G	**6JGG6**	208/230	10.5/10.5	IDC12-3108ABJ-G	**6JGH6**
9 ft	14 ft	7188 cfm	69 dBA	—	15"	18"	3	115	37.8	IDC14-3108AA-G	**6JGN6**	208/230	19.5/19.5	IDC14-3108ABJ-G	**6JGP6**
10 ft	12 ft	4678 cfm	66 dBA	—	15"	18"	3	115	19.5	IDC12-3120AA-G	**6JGG7**	208/230	10.5/10.5	IDC12-3120ABJ-G	**6JGH7**
10 ft	14 ft	7368 cfm	69 dBA	—	15"	18"	3	115	37.8	IDC14-3120AA-G	**6JGN7**	208/230	19.5/19.5	IDC14-3120ABJ-G	**6JGP7**
11 ft	12 ft	4760 cfm	66 dBA	—	15"	18"	3	115	19.5	IDC12-3132AA-G	**6JGG8**	208/230	10.5/10.5	IDC12-3132ABJ-G	**6JGH8**
11 ft	14 ft	7507 cfm	69 dBA	—	15"	18"	3	115	37.8	IDC14-3132AA-G	**6JGN8**	208/230	19.5/19.5	IDC14-3132ABJ-G	**6JGP8**
12 ft	12 ft	4782 cfm	66 dBA	—	15"	18"	3	115	19.5	IDC12-3144AA-G	**6JGG9**	208/230	10.5/10.5	IDC12-3144ABJ-G	**6JGH9**
12 ft	14 ft	7605 cfm	69 dBA	—	15"	18"	3	115	37.8	IDC14-3144AA-G	**6JGN9**	208/230	19.5/19.5	IDC14-3144ABJ-G	**6JGP9**
12 ft	12 ft	6048 cfm	69 dBA	—	15"	18"	4	115	26.0	IDC12-4144AA-G	**6JGH0**	208/230	14.0/14.0	IDC12-4144ABJ-G	**6JGJ0**
12 ft	14 ft	9584 cfm	72 dBA	—	15"	18"	4	115	50.4	IDC14-4144AA-G	**6JGP0**	208/230	26.0/26.0	IDC14-4144ABJ-G	**6JGR0**
Multipurpose, High Velocity, Unheated, 3-Phase															
6.5 ft	12 ft	3095 cfm	63	—	15"	18"	2	208/230	7.0/7.0	IDC12-2078AXY-G	**6JGK2**	460	2.8	IDC12-2078AZ-G	**6JGJ2**
6.5 ft	14 ft	4882 cfm	65 dBA	—	15"	18"	2	208/230	13.0/13.0	IDC14-2078AXY-G	**6JGT2**	460	6.4	IDC14-2078AZ-G	**6JGR2**
8 ft	12 ft	3188 cfm	63	—	15"	18"	2	208/230	7.0/7.0	IDC12-2096AXY-G	**6JGK4**	460	2.8	IDC12-2096AZ-G	**6JGJ4**
8 ft	14 ft	5070 cfm	65 dBA	—	15"	18"	2	208/230	13.0/13.0	IDC14-2096AXY-G	**6JGT4**	460	6.4	IDC14-2096AZ-G	**6JGR4**
8 ft	12 ft	4332 cfm	66 dBA	—	15"	18"	3	208/230	10.5/10.5	IDC12-3096AXY-G	**6JGK5**	460	4.2	IDC12-3096AZ-G	**6JGJ5**
8 ft	14 ft	6865 cfm	69 dBA	—	15"	18"	3	208/230	19.5/19.5	IDC14-3096AXY-G	**6JGT5**	460	6.4	IDC14-3096AZ-G	**6JGR5**
9 ft	12 ft	4536 cfm	66 dBA	—	15"	18"	3	208/230	10.5/10.5	IDC12-3108AXY-G	**6JGK6**	460	4.2	IDC12-3108AZ-G	**6JGJ6**
9 ft	14 ft	7188 cfm	69 dBA	—	15"	18"	3	208/230	19.5/19.5	IDC14-3108AXY-G	**6JGT6**	460	9.6	IDC14-3108AZ-G	**6JGR6**
10 ft	12 ft	4678 cfm	66 dBA	—	15"	18"	3	208/230	10.5/10.5	IDC12-3120AXY-G	**6JGK7**	460	4.2	IDC12-3120AZ-G	**6JGJ7**
10 ft	14 ft	7368 cfm	69 dBA	—	15"	18"	3	208/230	19.5/19.5	IDC14-3120AXY-G	**6JGT7**	460	9.6	IDC14-3120AZ-G	**6JGR7**
11 ft	12 ft	4760 cfm	66 dBA	—	15"	18"	3	208/230	10.5/10.5	IDC12-3132AXY-G	**6JGK8**	460	4.2	IDC12-3132AZ-G	**6JGJ8**
11 ft	14 ft	7507 cfm	69 dBA	—	15"	18"	3	208/230	19.5/19.5	IDC14-3132AXY-G	**6JGT8**	460	9.6	IDC14-3132AZ-G	**6JGR8**
12 ft	12 ft	4782 cfm	66 dBA	—	15"	18"	3	208/230	10.5/10.5	IDC12-3144AXY-G	**6JGK9**	460	4.2	IDC12-3144AZ-G	**6JGJ9**
12 ft	14 ft	9584 cfm	72 dBA	—	15"	18"	4	208/230	26.0/26.0	IDC14-4144AXY-G	**6JGU0**	460	12.8	IDC14-4144AZ-G	**6JGT0**

 # dBA is measured in free air 10 ft. from the nozzle.

Air Curtains

32V336

- Hardwired unless specified
- Require field-supplied hardware
- 5-yr. manufacturer's warranty for unheated units; 18 months for heated units

Heated and unheated models help cut utility bills, keep the environment clean, and deter dust, flying insects, and pollutants. Rugged construction and easy to install. The air curtain design provides consistent performance, maintains consistent temperatures, and reduces loss of conditioned air. More efficient than plastic strip curtains.

LOW PROFILE, LPV2 SERIES

- 115V models have 3-prong grounded plug; all others are hardwired
- Mounting plate included
- LPV2 models include variable speed control

Sleek, quiet, compact, 1/6 HP design for front entry doors and drive-through windows. Heated models help create a more comfortable work area by providing a warm protective barrier over openings exposed to low ambient temperatures. NSF 37 models are for food preparation areas; sanitation-certified for heights up to 7 ft. per NSF Sanitation/ANSI 37 standard. Models greater than 72" are double units joined with a 2" mounting bracket and must be center supported.

Multipurpose, Recessed 10N078

MULTIPURPOSE

- STD2, N2, NH2, HV2 unheated models are AMCA rated

Heated models provide a comfortable work area with warm protective barrier over openings exposed to low ambient temperatures. Energy-saving performance; fasten to a wall on both ends without intermediate support. Three-phase require a motor control panel, sold separately. NSF 37 models protect food preparation areas; sanitation-certified for heights up to 7 ft. NSF filters found on Grainger.com.

Recessed—Mount in ceiling. Minimal equipment visibility. Recessed housing enclosed.

CONTROL PANELS AND DOOR LIMIT SWITCHES

Required Motor Control Panels for 3-Phase Air Curtains—HOA switch included with panel. Auto mode requires optional door limit switch 2CLA2 (UL, NEMA 1) to provide automatic On/Off as door opens/closes, sold separately below.

- Control panels have NEMA 1 enclosure

Air Curtain Max. Door W	Max. Mounting H	Air Curtain Air Volume	Air Curtain dBA @ 10 ft.#	No. of Motors	Voltage	Max. Amps	Req. Motor Control Panel	Mfr. Model	Item No.	Voltage	Max. Amps	Req. Motor Control Panel	Mfr. Model	Item No.
Low Profile, 1-Phase														
2 ft	8 ft	625 cfm	49 dBA	1	115	2.4	—	LPV225-1UA-OB	**45C649**	—	—	—	—	—
3 ft	8 ft	900 cfm	49 dBA	1	115	2.4	—	LPV236-1UA-OB	**32V338**	208/230	1.2/1.2	—	LPV236-1UD-OB	**32V339**
3.5 ft	8 ft	1050 cfm	50 dBA	1	115	2.4	—	LPV242-1UA-OB	**32V342**	208/230	1.2/1.2	—	LPV242-1UD-OB	**32V343**
4 ft	8 ft	1200 cfm	52 dBA	1	115	2.4	—	LPV248-1UA-OB	**32V346**	208/230	1.2/1.2	—	LPV248-1UD-OB	**32V347**
5 ft	8 ft	1500 cfm	53 dBA	1	115	2.6	—	LPV260-1UA-OB	**32V350**	208/230	1.4/1.4	—	LPV260-1UD-OB	**32V351**
6 ft	8 ft	1800 cfm	53 dBA	1	115	2.6	—	LPV272-1UA-OB	**32V354**	208/230	1.4/1.4	—	LPV272-1UD-OB	**32V355**
Low Profile, Heated, 1-Phase														
3 ft	8 ft	900 cfm	49 dBA	1	208	30.5	—	LPV236-1EBC-OB	**32V336**	230	27.7	—	LPV236-1ECC-OB	**32V337**
3.5 ft	8 ft	1050 cfm	50 dBA	1	208	39.7	—	LPV242-1EBD-OB	**32V340**	230	36	—	LPV242-1ECD-OB	**32V341**
4 ft	8 ft	1200 cfm	52 dBA	1	208	39.7	—	LPV248-1EBD-OB	**32V344**	230	36	—	LPV248-1ECD-OB	**32V345**
5 ft	8 ft	1500 cfm	53 dBA	1	208	47.1	—	LPV260-1EBF-OB	**32V348**	230	42.7	—	LPV260-1ECF-OB	**32V349**
6 ft	8 ft	1800 cfm	53 dBA	1	208	47.1	—	LPV272-1EBF-OB	**32V352**	230	42.7	—	LPV272-1ECF-OB	**32V353**
Low Profile, NSF 37, 1-Phase														
3 ft	7 ft	900 cfm	49 dBA	1	115	2.4	—	LPN236-1UA-OB	**45C645**	208/230	1.2	—	LPN236-1UD-OB	**20KD35**
3.5 ft	7 ft	1050 cfm	50 dBA	1	115	2.4	—	LPN242-1UA-OB	**45C646**	—	—	—	—	—
4 ft	7 ft	1200 cfm	52 dBA	1	115	2.4	—	LPN248-1UA-OB	**45C647**	—	—	—	—	—
5 ft	7 ft	1500 cfm	53 dBA	1	115	2.6	—	LPN260-1UA-OB	**20KD41**	—	—	—	—	—
6 ft	7 ft	1800 cfm	53 dBA	1	115	2.6	—	LPN272-1UA-OB	**45C648**	208/230	1.4	—	LPN272-1UD-OB	**20KD44**
7 ft	7 ft	2100 cfm	53 dBA	2	115	4.8	—	LPN284-2UA-OB	**35YU56**	208/230	2.4/2.4	—	LPN284-2UD-OB	**35YU57**
8 ft	7 ft	2400 cfm	53 dBA	2	115	4.8	—	LPN296-2UA-OB	**35YU58**	208/230	2.4/2.4	—	LPN296-2UD-OB	**35YU59**
9 ft	7 ft	2700 cfm	54 dBA	2	115	5.0	—	LPN2108-2UA-OB	**35YU60**	208/230	2.6/2.6	—	LPN2108-2UD-OB	**35YU61**
10 ft	7 ft	3000 cfm	54 dBA	2	115	5.2	—	LPN2120-2UA-OB	**35YU62**	208/230	2.8/2.8	—	LPN2120-2UD-OB	**35YU63**
12 ft	7 ft	3600 cfm	54 dBA	2	115	5.2	—	LPN2144-2UA-OB	**35YU64**	208/230	2.8/2.8	—	LPN2144-2UD-OB	**35YU65**
Multipurpose, 1-Phase														
3 ft	10 ft	1379 cfm	66 dBA	1	115	5.1	—	STD236-1UA-OB	**32V362**	208/230	2.5/2.5	—	STD236-1UD-OB	**32V363**
3.5 ft	10 ft	1418 cfm	66 dBA	1	115	5.1	—	STD242-1UA-OB	**32V366**	208/230	2.5/2.5	—	STD242-1UD-OB	**32V367**
4 ft	10 ft	1442 cfm	66 dBA	1	115	5.1	—	STD248-1UA-OB	**32V370**	208/230	2.5/2.5	—	STD248-1UD-OB	**32V371**
6 ft	10 ft	2758 cfm	68 dBA	2	115	5.0	—	STD272-2UA-OB	**32V378**	208/230	5.0/5.0	—	STD272-2UD-OB	**32V379**
Multipurpose, Heated, 1-Phase														
3 ft	10 ft	1379 cfm	66 dBA	1	208	31.3	—	STD236-1EBB-OB	**32V360**	230	28.6	—	STD236-1ECB-OB	**32V361**
3.5 ft	10 ft	1418 cfm	66 dBA	1	208	31.3	—	STD242-1EBB-OB	**32V364**	230	28.6	—	STD242-1ECB-OB	**32V365**
4 ft	10 ft	1442 cfm	66 dBA	1	208	31.3	—	STD248-1EBB-OB	**32V368**	230	28.6	—	STD248-1ECB-OB	**32V369**
Multipurpose Heated, 3-Phase														
6 ft	10 ft	2758 cfm	68 dBA	2	208	71.6	Included	STD272-2EEN-OB	**32V376**	230	65.2	Included	STD272-2EFN-OB	**32V377**
Multipurpose, NSF 37, 1-Phase														
3 ft	7 ft	1379 cfm	66 dBA	1	115	5.1	—	N236-1UA-OB	**32V356**	—	—	—	—	—
3.5 ft	7 ft	2654 cfm	70 dBA	1	115	9	—	NH242-1UA-TS	**32V358**	—	—	—	—	—
4 ft	7 ft	1442 cfm	66 dBA	1	115	5.1	—	N248-1UA-OB	**32V357**	—	—	—	—	—
4 ft	7 ft	2447 cfm	70 dBA	1	115	9	—	NH248-1UA-TS	**32V359**	—	—	—	—	—
Multipurpose, Recessed, 1-Phase														
3 ft	10 ft	1460 cfm	66 dBA	1	115	5.1	—	PH1036-1UA-PW	**10N078**	208/230	2.5	—	PH1036-1UD-PW	**10N083**
3.5 ft	10 ft	1580 cfm	66 dBA	1	115	5.1	—	PH1042-1UA-PW	**10N079**	208/230	2.5	—	PH1042-1UD-PW	**10N084**
4 ft	10 ft	1632 cfm	66 dBA	1	115	5.1	—	PH1048-1UA-PW	**10N080**	208/230	2.5	—	PH1048-1UD-PW	**10N085**
6 ft	10 ft	2920 cfm	68 dBA	2	115	10.2	—	PH1072-2UA-PW	**10N082**	208/230	5.0	—	PH1072-2UD-PW	**10N087**
Multipurpose, Recessed, Heated, 3-Phase														
3 ft	10 ft	1460 cfm	66 dBA	1	—	—	—	—	—	230	32.6	Included	PH1036-1EFH-PW	**10N088**
3.5 ft	10 ft	1580 cfm	66 dBA	1	—	—	—	—	—	230	32.6	Included	PH1042-1EFH-PW	**10N089**
4 ft	10 ft	1632 cfm	66 dBA	1	—	—	—	—	—	230	32.6	Included	PH1048-1EFH-PW	**10N090**
6 ft	10 ft	2920 cfm	68 dBA	2	—	—	—	—	—	230	65.2	Included	PH1072-2EFN-PW	**10N092**
Multipurpose, 3-Phase														
4 ft	12 ft	2447 cfm	70 dBA	1	208/230	3.3/3.2	32V380	HV248-1UG-TS	**32V323**	460	1.6	32V381	HV248-1UH-TS	**32V324**
5 ft	12 ft	2760 cfm	70 dBA	1	208/230	3.3/3.2	32V380	HV260-1UG-TS	**32V327**	460	1.6	32V381	HV260-1UH-TS	**32V328**
6 ft	12 ft	3584 cfm	73 dBA	2	208/230	6.6/6.4	32V382	HV272-2UG-TS	**32V329**	460	3.2	32V384	HV272-2UH-TS	**32V330**
7 ft	12 ft	8000 cfm	73 dBA	2	208/230	6.6/6.4	32V382	HV284-2UG-TS	**32V331**	460	3.2	32V384	HV284-2UH-TS	**32V332**
8 ft	12 ft	4894 cfm	73 dBA	2	208/230	6.6/6.4	32V382	HV296-2UG-TS	**32V333**	460	3.2	32V384	HV296-2UH-TS	**32V334**
8 ft	16 ft	9600 cfm	79 dBA	2	208/230	16.6/15.2	32V383	EP296-2UG-TS	**32V315**	460	7.6	32V385	EP296-2UH-TS	**32V316**
10 ft	12 ft	6693 cfm	75 dBA	3	208/230	9.9/9.6	32V388	HV2120-3UG-TS	**32V317**	460	4.8	32V386	HV2120-3UH-TS	**32V318**
10 ft	16 ft	14,400 cfm	81 dBA	3	208/230	24.9/22.8	32V389	EP2120-3UG-TS	**32V309**	460	11.4	32V387	EP2120-3UH-TS	**32V310**
12 ft	12 ft	7341 cfm	75 dBA	3	208/230	9.9/9.6	32V388	HV2144-3UG-TS	**32V319**	460	4.8	32V387	HV2144-3UH-TS	**32V320**
12 ft	16 ft	14,400 cfm	81 dBA	3	208/230	24.9/22.8	32V389	EP2144-3UG-TS	**32V311**	460	11.4	32V387	EP2144-3UH-TS	**32V312**

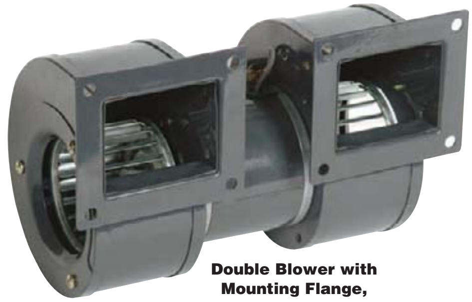
Description	Item No.
Optional Door Limit Switch	
Roller Plunger Door Switch, 120/208-230 Voltage, 60 Hz, 1 Phase, 20 A, 2 ½ in H x 3 in W x 2 in D	**2CLA2**

 # dBA is measured at 10 ft. from the nozzle in an open field. STD2, PH10, N2, NH2, and HV2 are CFM ratings shown and are based on tests and procedures performed in accordance with AMCA Publication 211.

Blower w/ No Mounting Flange, 1TDP4

Blower w/ Mounting Flange, 1TDR3

Double Blower with Mounting Flange, 1TDP8



Dayton®

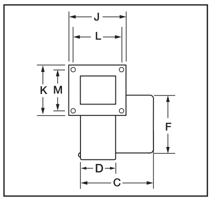
30 to 312 CFM PSC, Shaded Pole, and DC Blowers, Rectangular Outlet

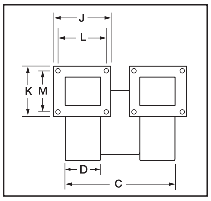
- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F
- Motor enclosure: open

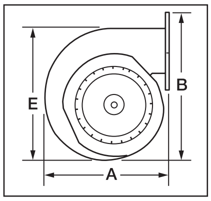
Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain CFM at higher static pressures. Motors have cast-aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life.

Note: Not for use with speed controllers.

CFM Air Delivery @ Static Pressure Shown						Blower Motor Type	Blower Voltage	Phase	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	Replaces	Item No.
0.000"	0.100"	0.200"	0.300"	0.400"	0.500"										
Rectangular Outlet with No Mounting Flange															
71	70	64	50	37	—	Permanent Split Capacitor	115V AC	1	0.50	50/60	Auto	Ball	No	2C067	**1TDP4**
168	156	144	130	118	55	Permanent Split Capacitor	230V AC	1	0.35	50/60	Auto	Ball	Yes	2C916	**1TDR1**
174	162	152	134	118	95	Permanent Split Capacitor	115V AC	1	0.60	50/60	Auto	Ball	Yes	1C982	**1TDP9**
229	220	213	205	198	184	Permanent Split Capacitor	115V AC	1	1.05	50/60	Auto	Ball	No	4C754	**1TDR2**
271	255	235	210	183	135	Permanent Split Capacitor	230V AC	1	0.43	50/60	Auto	Ball	Yes	1TDR4	**45NM97**
273	245	230	210	183	135	Permanent Split Capacitor	115V AC	1	0.77	50/60	Auto	Ball	Yes	1TDR3	**45NM96**
Rectangular Outlet with Mounting Flange															
30	25	21	16.5	3	—	Shaded Pole	115V AC	1	0.51	60	Auto	Ball	No	4C760	**1TDN3**
49	46	44	39	30	13	Shaded Pole	115V AC	1	0.50	60	Auto	Ball	No	4C761	**1TDN4**
53	52	50	47	41	23	Permanent Split Capacitor	115V AC	1	0.30	50/60	Auto	Ball	No	4C012	**1TDN5**
75	72	66	62	56	44	Shaded Pole	115V AC	1	0.50	60	Auto	Ball	No	4C762	**1TDN9**
89	85	78	74	66	58	Permanent Split Capacitor	115V AC	1	0.31	50/60	Auto	Ball	Yes	4C004	**1TDP1**
104	102	98	94	85	74	Shaded Pole	115V AC	1	1.25	60	Auto	Ball	No	4C763	**1TDP2**
133	128	126	119	112	105	Permanent Split Capacitor	230V AC	1	0.33	50/60	Auto	Ball	Yes	2C915	**1TDP6**
134	126	117	107	96	79	Permanent Split Capacitor	115V AC	1	0.63/0.55	50/60	Auto	Ball	No	—	**2C647**
146	140	126	124	120	110	Permanent Split Capacitor	115V AC	1	0.75	50/60	Auto	Ball	Yes	4C446	**1TDP7**
151	140	126	124	120	110	Permanent Split Capacitor	230V AC	1	0.35	50/60	Auto	Ball	Yes	—	**3FRF1**
149	140	126	124	120	110	DC	12V DC	1	5.50	—	None	Ball	Yes	—	**3FRG8**
176	170	165	159	153	148	DC	12V DC	1	5.10	—	None	Ball	No	—	**2C646**
273	245	230	210	183	135	Permanent Split Capacitor	115V AC	1	0.77	50/60	Auto	Ball	Yes	4C447	**1TDR3**
275	245	230	210	183	135	DC	12V DC	1	4.50	—	None	Ball	Yes	—	**3HMH7**
271	255	235	210	183	135	Permanent Split Capacitor	230V AC	1	0.43	50/60	Auto	Ball	Yes	4C869	**1TDR4**
Square Outlet with Mounting Flange															
131	127	119	118	112	105	Permanent Split Capacitor	115V AC	1	0.65	50/60	Auto	Ball	Yes	4C442	**1TDP5**
139	127	119	118	112	105	DC	12V DC	1	3.90	—	None	Ball	Yes	—	**3FRG7**
Double Blower, Rectangular Outlet with Mounting Flange															
184	178	170	158	140	120	Permanent Split Capacitor	115V AC	1	0.72	50/60	Auto	Ball	Yes	4C015	**1TDP8**
312	304	272	245	210	142	Permanent Split Capacitor	115V AC	1	0.76	50/60	Auto	Ball	Yes	2C069	**1TDR5**
0.000"	**0.500"**	**0.700"**	**0.900"**	**1.000"**	**1.200"**										
Rectangular Outlet with Mounting Flange (High Pressure)															
148	124	114	95 cfm	86 cfm	44 cfm	Permanent Split Capacitor	115V AC	1	0.75	50/60	Auto	Ball	Yes	4C006	**1TDR6**







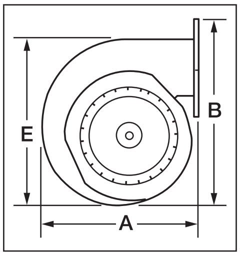
Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	D	E	F	J	K	L	M
Rectangular Outlet with No Mounting Flange																
1TDP4	5 11/16"	1 7/8"	4 3/4"	2 15/16"	3 5/16"	13"	7 15/16"	10"	3 7/8"	3 3/8"	7 7/8"	3 5/16"	2 1/4"	—	—	—
1TDR1	5 3/16"	1 7/8"	4 3/4"	2 7/8"	3 5/16"	13"	7 15/16"	10"	6 1/2"	3 3/8"	7 15/16"	3 5/16"	2 1/4"	—	—	—
1TDP9	5 3/16"	1 7/8"	4 3/4"	2 7/8"	3 5/16"	13"	7 15/16"	10"	6 1/2"	3 3/8"	7 15/16"	3 5/16"	2 1/4"	—	—	—
1TDR2	7"	1 7/8"	5 3/8"	4 3/16"	2 1/2"	13"	10 5/16"	10"	4"	2 5/8"	11 1/16"	3 3/8"	2 1/4"	—	—	—
45NM97	5 1/8"	1 7/8"	4 9/16"	3 7/16"	4"	13"	8 7/8"	—	7 9/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	—	4 7/8"	4 3/8"
45NM96	5 1/8"	1 7/8"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	—	7 11/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	—	4 7/8"	4 3/8"
Rectangular Outlet with Mounting Flange																
1TDN3	2 15/16"	1"	2 9/16"	1 5/8"	1 9/16"	13"	4 1/2"	5 3/8"	3 1/2"	1 5/8"	4 5/8"	2 1/2"	2 15/16"	3 1/16"	2 5/16"	2 7/16"
1TDN4	2 15/16"	1 1/2"	2 9/16"	1 5/8"	2"	13"	4 1/2"	5 5/16"	4 3/16"	2 1/8"	4 11/16"	2 1/2"	3 7/16"	3 1/8"	2 13/16"	2 7/16"
1TDN5	2 15/16"	1 7/8"	2 9/16"	1 5/8"	2"	13"	4 1/2"	5 5/16"	4 11/16"	2 1/8"	4 5/8"	3 5/16"	3 7/16"	3 1/8"	2 13/16"	2 7/16"
1TDN9	2 15/16"	1 7/8"	2 5/8"	2 1/8"	2 11/16"	13"	5 5/16"	6 5/16"	5 1/16"	2 3/4"	5 11/16"	2 1/2"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP1	3"	1 7/8"	2 5/8"	2 3/16"	2 11/16"	13"	5 3/8"	6 5/16"	5 3/8"	2 3/4"	5 11/16"	3 5/16"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP2	3 15/16"	1 7/8"	3 1/8"	2 1/8"	2 11/16"	13"	5 5/16"	6 3/8"	5 7/8"	2 11/16"	5 11/16"	2 1/2"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDP6	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 9/16"	13"	6 9/16"	7 1/4"	5 5/8"	2 5/8"	6 9/16"	3 5/16"	5 1/8"	4"	4 1/8"	1 1/2"
2C647	5 1/4"	2 1/2"	4 1/2"	3 1/8"	3"	20"	7 7/16"	8"	5 5/16"	3 1/8"	8"	3 5/16"	4 5/8"	3 1/8"	3 15/16"	2 3/8"
1TDP7	3 15/16"	1 7/8"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	6 5/16"	3 5/16"	5 3/4"	3 5/16"	4 5/8"	3 1/2"	4"	2 7/8"
3FRF1	3 15/16"	1 7/8"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	6 5/16"	3 5/16"	5 3/4"	3 5/16"	4 5/8"	3 1/2"	4"	2 7/8"
3FRG8	3 15/16"	2 1/2"	3 1/8"	2 3/16"	3 1/4"	13"	5 3/8"	6 3/8"	7 1/2"	3 5/16"	5 3/4"	3 1/8"	4 7/16"	3 1/2"	4"	2 7/8"
2C646	5 1/4"	2 1/2"	4 1/2"	3 1/8"	3"	37"	7 7/16"	8"	5 11/16"	3 1/8"	—	3"	4 5/8"	3 1/8"	3 15/16"	2 3/8"
1TDR3	5 1/8"	3 11/32"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	10 7/16"	7 11/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	5"	4 7/8"	4 3/8"
3HMH7	5 1/8"	3"	4 5/8"	3 5/8"	4 1/8"	13"	8 7/8"	10 7/16"	8 1/2"	4 1/4"	9 7/8"	3 1/8"	5 1/2"	5"	4 7/8"	4 3/8"
1TDR4	5 1/8"	3 11/32"	4 9/16"	3 7/16"	4"	13"	8 7/8"	10 7/16"	7 9/16"	4 1/4"	9 7/8"	3 5/16"	5 1/2"	5"	4 7/8"	4 3/8"
Square Outlet with Mounting Flange																
1TDP5	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 1/2"	13"	6 9/16"	7 1/4"	5 5/8"	2 5/8"	6 9/16"	3 5/16"	5 1/8"	4"	4 1/8"	1 1/2"
3FRG7	3 3/4"	1 7/8"	3 1/4"	2 1/2"	2 1/2"	13"	6 9/16"	7 1/4"	6 5/16"	2 5/8"	6 9/16"	3 1/8"	5 1/8"	4"	4 1/8"	1 1/2"
Double Blower, Rectangular Outlet with Mounting Flange																
1TDP8	2 15/16"	1 7/8"	2 5/8"	2 1/8"	2 11/16"	13"	5 3/8"	6 3/8"	8 7/16"	2 3/4"	6 3/8"	3 5/16"	4 1/16"	3 9/16"	3 3/8"	2 7/8"
1TDR5	5 3/16"	1 7/8"	4 5/8"	3 1/8"	3 1/4"	13"	8 1/16"	8 5/8"	11"	3 7/16"	7 7/8"	3 5/16"	4 3/4"	4 3/4"	4 1/8"	1 1/2"
Rectangular Outlet with Mounting Flange (High Pressure)																
1TDR6	4 3/16"	1 7/8"	3 3/4"	2 5/8"	2 15/16"	13"	7 1/8"	8 1/4"	6"	3"	7 5/8"	3 5/16"	4 7/16"	4 1/16"	3 3/4"	3 3/8"

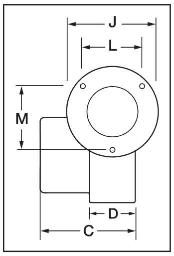
Round Outlet with No Mounting Flange, 1TDN6

Round Outlet with Mounting Flange, 1TDN1

Round Outlet with Mounting Flange, 1TDN8

Round Outlet with Mounting Flange, 1TDP3





Dayton®

12 to 79 CFM PSC and Shaded Pole Blowers, Round Outlet

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F
- Motor enclosure: open

Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain CFM at higher static pressures. Motors have cast-aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life.

Note: Not for use with speed controllers.

CFM Air Delivery @ Static Pressure Shown														
0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Motor Type	Blower Voltage	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	Replaces	Item No.
Round Outlet with No Mounting Flange														
51	48	43	39	34	23	Permanent Split Capacitor	115V AC	0.23	50/60	Auto	Ball	Yes	4C441	**1TDN6**
Round Outlet with Mounting Flange														
12	9	6	—	—	—	Permanent Split Capacitor	115V AC	0.08	50/60	Auto	Ball	No	2C782	**1TDN2**
13	9.3	—	—	—	—	Shaded Pole	115V AC	0.29	60	Auto	Ball	No	4C759	**1TDN1**
49	47	41	37	32	17	Permanent Split Capacitor	230V AC	0.11	50/60	Auto	Ball	Yes	2C914	**1TDN8**
50	48	44	39	32	18	Permanent Split Capacitor	115V AC	0.23	50/60	Auto	Ball	Yes	4C440	**1TDN7**
75	71	68	66	61	56	Permanent Split Capacitor	115V AC	0.45	50/60	Auto	Ball	Yes	4C443	**1TDP3**
72	71	68	66	61	56	Permanent Split Capacitor	230V AC	0.18	50/60	Auto	Ball	Yes	—	**3FRE9**

Item No.	Blower Wheel Diameter	Blower Wheel Width	Outlet Dia.	Inlet Dia.	Lead Length	Dimensions A	B	C	D	E	J	L	M
Round Outlet with No Mounting Flange													
1TDN6	3 in	1 7⁄8 in	2 1⁄8 in	2 3⁄8 in	13 in	6 7⁄16 in	10 in	5 1⁄4 in	2 1⁄4 in	5 13⁄16 in	2 1⁄4 in	—	—
Round Outlet with Mounting Flange													
1TDN2	2 in	1 7⁄8 in	1 1⁄4 in	1 7⁄8 in	13 in	4 in	4 3⁄16 in	4 1⁄16 in	1 5⁄16 in	3 7⁄8 in	2 1⁄4 in	1 5⁄8 in	1 7⁄16 in
1TDN1	2 in	1 7⁄8 in	1 1⁄4 in	1 7⁄8 in	13 in	4 in	4 1⁄8 in	3 3⁄16 in	1 3⁄8 in	3 7⁄8 in	2 1⁄4 in	1 5⁄8 in	1 7⁄16 in
1TDN8	3 in	1 7⁄8 in	2 1⁄8 in	2 3⁄8 in	13 in	6 7⁄16 in	6 9⁄16 in	5 1⁄16 in	2 1⁄4 in	5 13⁄16 in	4 1⁄16 in	2 3⁄8 in	2 13⁄16 in
1TDN7	3 in	1 7⁄8 in	2 1⁄8 in	2 3⁄8 in	13 in	6 7⁄16 in	6 1⁄2 in	5 1⁄16 in	2 1⁄4 in	5 13⁄16 in	4 1⁄16 in	2 3⁄8 in	2 13⁄16 in
1TDP3	3 15⁄16 in	1 7⁄8 in	2 1⁄8 in	3 1⁄8 in	13 in	6 7⁄16 in	6 1⁄2 in	6 1⁄4 in	2 1⁄4 in	5 3⁄4 in	4 1⁄16 in	2 3⁄8 in	2 13⁄16 in
3FRE9	3 15⁄16 in	1 7⁄8 in	2 1⁄8 in	3 1⁄8 in	13 in	6 7⁄16 in	6 1⁄2 in	6 1⁄4 in	2 1⁄4 in	5 3⁄4 in	4 1⁄16 in	2 3⁄8 in	2 13⁄16 in

Dayton®

High-Temperature PSC Blowers, Rectangular Outlet

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Continuous-duty operation
- Max. inlet air temp.: 450°F
- Max. ambient temp.: 104°F
- Motor insulation: Class B

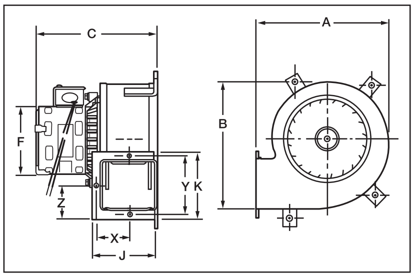
1TDV1

Externally mounted cooling fan (between motor and blower wheel) keeps motor cooler for a longer service life. Durable motor/blower design features ball bearings, cast-aluminum end shield, rolled steel body, and a steel cooling fan. Permanent split capacitor motor operates more efficiently than a comparably sized shaded pole motor. Blower housing has side mounting tabs and 3-sided mounting flange, except 1TDV1 has no outlet mounting flange. High-temperature flat black enamel finish. Excellent for general heating, cooling, ventilating, or component cooling.

Note: Motor must be positioned in an area where temperature does not exceed 104°F. CFM values shown in the table below are representative of catalog specifications within a tolerance of ±15%.

CFM Air Delivery @ Static Pressure Shown 70°F (In.)												
0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Voltage	Full Load Amps	Hz	Blower Thermal Protection	Blower Conduit Box	Replaces	Item No.
Rectangular Outlet with No Mounting Flange												
101	99	96	94	92	90	115V AC	0.52	50/60	Auto	Yes	4C723	**1TDV1**
Rectangular Outlet with Mounting Flange												
70	67	65	61	50	—	115V AC	0.30	50/60	Auto	Yes	4C940	**1TDU9**
129	123	119	112	105	91	115V AC	0.65	50/60	Auto	Yes	4C941	**1TDV2**
227	210	195	180	162	110	115V AC	0.58	50/60	Auto	Yes	4C942	**1TDV3**
227	210	195	180	162	110	230V AC	0.37	50/60	Auto	Yes	—	**3FRG3**
310	290	280	260	245	230	115V AC	0.86	50/60	Auto	Yes	4YJ33	**1TDV4**

Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	F	J	K	X	Y	Z
Rectangular Outlet with No Mounting Flange															
1TDV1	4 9⁄16"	1 7⁄8"	4 3⁄4"	2 9⁄16"	1 11⁄16"	13"	7"	7 3⁄8"	5 1⁄8"	3 3⁄8"	—	—	—	—	—
Rectangular Outlet with Mounting Flange															
1TDU9	2 15⁄16"	1 7⁄8"	3 3⁄8"	2 1⁄8"	2 11⁄16"	13"	5 5⁄16"	5 7⁄8"	6 1⁄8"	3 5⁄16"	3 5⁄16"	3 1⁄2"	2"	2 7⁄8"	1 3⁄4"
1TDV2	3 11⁄16"	2 1⁄2"	3 15⁄16"	2 3⁄16"	3 5⁄16"	13"	5 5⁄16"	5 7⁄8"	7 1⁄8"	3 5⁄16"	3 15⁄16"	3 1⁄2"	2"	2 7⁄8"	1 3⁄4"
1TDV3	5 1⁄8"	3 11⁄32"	5 5⁄16"	3 7⁄16"	3 3⁄4"	13"	8 7⁄8"	9 7⁄16"	8 5⁄8"	3 5⁄16"	4 7⁄16"	5"	2 3⁄16"	4 3⁄8"	2 1⁄2"
3FRG3	5 1⁄8"	1 7⁄8"	5 5⁄16"	3 7⁄16"	3 3⁄4"	13"	8 7⁄8"	9 7⁄16"	8 5⁄8"	3 5⁄16"	4 7⁄16"	5"	2 3⁄16"	4 3⁄8"	2 1⁄2"
1TDV4	6 3⁄16"	3"	6 1⁄2"	4 1⁄4"	3 13⁄16"	13"	10 3⁄8"	10"	8 11⁄16"	3 5⁄16"	4 1⁄2"	5 5⁄8"	2 1⁄4"	5"	2 13⁄16"



Blower with No Mounting Flange, 1TDT5

Blower with Mounting Flange, 1TDR9

Blower with Mounting Flange, 1TDR7

Housing Supports

Dayton

OEM Specialty PSC and DC Blowers

- Direct replacements for many OEM blowers with same physical footprint
- All-position mounting
- Min./max. operating temp. range: -20° to 104°F
- Max. inlet and ambient temp.: 104°F

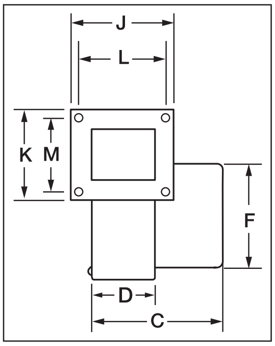
Powerful direct-drive blowers with forward-curve wheels provide economical air delivery for general heating, cooling, ventilating, or component cooling. Dynamically balanced blowers provide smooth and quiet operation. Noise and vibration are held to a minimum to maintain cfm at higher static pressures. Motors have cast aluminum end shields for greater heat dissipation and protection, resulting in less downtime and longer service life. Gray enamel finish.

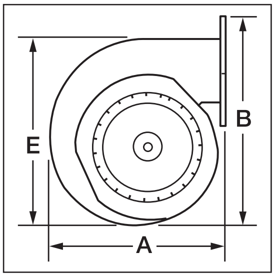
Blowers without outlet flange can use 5TCJ3 housing support for mounting. 2-speed blowers require 1DGZ9 2-speed switch (not included; see page 2929).

Note: Not for use with speed controllers.

PREPUNCHED METAL HOUSING SUPPORT

Enables base mounting 1TDT4, 1TDT5, 1TDT9, 1TDU1, and 1TDU2 for bottom horizontal, top horizontal, and upblast discharges. 12¾"L. Gray finish. Sold in pairs.





CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.200"	0.300"	0.400"	0.500"	Blower Voltage	Phase	Full Load Amps	Hz	Blower Thermal Protection	Bearing Type	Blower Conduit Box	OPEN DRIPPROOF MOTOR Replaces	Item No.
Rectangular Outlet with No Mounting Flange														
551	538	510	500	480	450	12V DC	1	20	—	None	Ball	Yes	—	**3HMJ2**
794	780	750	690	670	610	115/230V AC	1	2.75/1.45	50/60	Auto	Ball	Yes	4C668	**1TDT9**
805	770	730	685	645	605	115V AC	1	2.75	50/60	Auto	Ball	Yes	2C946	**1TDT4**
965	950	910	850	820	750	115V AC	1	3.50	50/60	Auto	Ball	Yes	4C054	**1TDT5**
990	960	940	875	825	775	115/230V AC	1	3.66/1.88	50/60	Auto	Ball	Yes	4C830	**1TDU1**
1202	1170	1150	1140	1120	1100	115/230V AC	1	7.30/3.70	60	Auto	Ball	Yes	4C831	**1TDU2**
Rectangular Outlet with Mounting Flange														
358	350	330	310	300	280	230V AC	1	0.54	50/60	Auto	Ball	Yes	2C917	**1TDR8**
458	430	383	338	263	140	230V AC	1	0.65	50/60	Auto	Ball	No	5C507	**1TDT1**
463	425	388	338	250	161	115V AC	1	1.28	50/60	Auto	Ball	No	4C448	**1TDR9**
485	475	448	425	398	375	115V AC	1	1.35	50/60	Auto	Ball	Yes	4C444 & 4YJ31	**1TDR7**
549	538	510	500	480	450	115V AC	1	2.05	50/60	Auto	Ball	Yes	4C445 & 4YJ32	**1TDT2**
552	490	462	426	392	358	12V DC	1	10	—	None	Ball	No	—	**3HMJ1**
559	540	525	510	480	450	230V AC	1	0.98	50/60	Auto	Ball	Yes	4C870	**1TDT3**
2-Speed Rectangular Outlet with Mounting Flange														
428/293	405/290	370/285	330/260	225/188	150/130	115V AC	1	1.10/0.85	50/60	Auto	Ball	No	4C565	**1TDT6**
542/409	520/398	510/387	480/375	465/362	450/348	115V AC	1	2.00/1.54	50/60	Auto	Ball	Yes	4C566	**1TDT7**
797/549	780/546	730/536	720/532	680/518	640/504	115V AC	1	3.30/2.20	50/60	Auto	Ball	No	5C508	**1TDT8**
Blower Housing Supports														
Prepunched Metal Housing Supports for Nos. 1TDT4, 1TDT5, 1TDT9, 1TDU1, and 1TDU2													—	**5TCJ3**

Item No.	Blower Wheel Diameter	Blower Wheel Width	Inlet Dia.	Outlet Height	Outlet Width	Lead Length	Dimensions A	B	C	D	E	F	J	K	L	M
Rectangular Outlet with No Mounting Flange																
3HMJ2	6 1/4 in	4 in	5 5/16 in	4 1/4 in	5 1/4 in	13 in	10 7/16 in	11 13/16 in	10 in	5 5/16 in	11 1/8 in	3 1/8 in	6 5/8 in	5 5/8 in	6 in	5 in
1TDT9	8 1/4 in	4 1/16 in	7 in	5 9/16 in	6 3/16 in	13 in	13 1/8 in	10 in	10 5/16 in	6 5/16 in	14 7/8 in	5 in	2 1/4 in	—	—	—
1TDT4	8 1/4 in	4 1/16 in	7 in	5 9/16 in	6 1/8 in	13 in	13 1/8 in	10 in	10 5/16 in	6 5/16 in	14 7/8 in	5 1/16 in	2 1/4 in	—	—	—
1TDT5	8 5/8 in	5 1/4 in	7 in	5 9/16 in	7 3/16 in	13 in	13 1/8 in	10 in	11 5/16 in	7 5/16 in	14 7/8 in	5 1/16 in	2 1/4 in	—	—	—
1TDU1	8 5/8 in	5 1/4 in	7 in	5 9/16 in	7 3/16 in	13 in	13 1/8 in	10 in	11 5/16 in	7 5/16 in	14 7/8 in	5 in	2 1/4 in	—	—	—
1TDU2	8 1/4 in	5 1/4 in	7 in	5 9/16 in	7 1/8 in	13 in	13 1/8 in	10 in	11 5/16 in	7 5/16 in	14 7/8 in	5 9/16 in	2 1/4 in	—	—	—
Rectangular Outlet with Mounting Flange																
1TDR8	6 3/16 in	1 7/8 in	5 5/16 in	4 1/4 in	3 13/16 in	13 in	10 7/16 in	11 3/4 in	7 5/8 in	4 in	11 1/8 in	4 7/16 in	5 1/16 in	5 5/8 in	4 1/2 in	5 in
1TDT1	5 1/8 in	7 in	4 9/16 in	3 7/16 in	7 13/16 in	13 in	8 7/8 in	10 1/2 in	9 1/8 in	8 1/16 in	9 7/8 in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDR9	5 1/8 in	7 in	4 9/16 in	3 1/2 in	7 13/16 in	13 in	8 9/16 in	10 1/2 in	9 3/16 in	8 3/16 in	9 3/8 in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDR7	6 3/16 in	1 7/8 in	5 5/16 in	4 1/4 in	3 13/16 in	13 in	10 7/16 in	11 3/4 in	7 5/8 in	4 1/16 in	11 1/8 in	4 7/16 in	5 1/16 in	5 5/8 in	4 1/2 in	5 in
1TDT2	6 1/4 in	3 13/16 in	5 5/16 in	4 1/4 in	5 1/4 in	13 in	10 7/16 in	11 13/16 in	9 3/16 in	5 1/2 in	11 1/8 in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
3HMJ1	5 1/8 in	7 in	4 9/16 in	3 1/2 in	7 13/16 in	13 in	8 13/16 in	10 1/2 in	9 3/16 in	8 3/16 in	9 7/8 in	3 1/8 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDT3	6 1/4 in	3 3/16 in	5 5/16 in	4 1/4 in	5 1/4 in	13 in	10 7/16 in	11 13/16 in	9 3/16 in	5 1/2 in	11 1/8 in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
2-Speed Rectangular Outlet with Mounting Flange																
1TDT6	5 1/8 in	7 in	4 9/16 in	3 1/2 in	7 13/16 in	13 in	8 7/8 in	10 1/2 in	9 1/4 in	8 3/16 in	9 7/8 in	3 5/16 in	9 7/16 in	5 in	8 13/16 in	4 3/8 in
1TDT7	6 1/4 in	3 3/16 in	5 5/16 in	4 1/4 in	5 1/4 in	13 in	10 7/16 in	11 13/16 in	8 15/16 in	5 5/16 in	11 1/8 in	4 7/16 in	6 5/8 in	5 5/8 in	6 in	5 in
1TDT8	6 5/16 in	6 1/2 in	5 5/16 in	4 1/4 in	8 1/16 in	13 in	10 7/16 in	11 3/4 in	9 1/4 in	8 3/16 in	11 1/8 in	3 5/16 in	9 3/8 in	5 5/8 in	8 3/4 in	5 in

Dayton®

Transflow and Low-Profile Blowers

Transflow
1TDU6

Low-Profile
1TDU7

- All-position mounting
- Continuous-duty operation
- Min./max. operating temp. range: -20° to 104°F
- Motor insulation: Class B
- Automatic thermal protection

Blowers provide economical air delivery for general heating, cooling, ventilating, or component cooling. Designed to exhaust or ventilate cabinets, office machines, electronic equipment, corn stoves, pellet stoves, and fireplace inserts.

Note: Not for use with speed controllers.

Transflow—Heavy-duty, shaded-pole motor (permanent split capacitor on 3HMK2) features an oversized stack to enhance cooling and product life. Durable metal cooling-fan blade. Extruded aluminum, 1-pc. housing keeps blower wheel and motor properly aligned—reduces vibration. Permanently lubricated sleeve bearings on motor (3HMK2 has permanently lubricated ball bearings) and blower housing significantly reduce motor hum transmission into equipment. 13" leads. 3HMK2 features open dripproof motor enclosure.

Low-Profile—Forward curve centrifugal blower wheels, mounted in twin scroll housings, provide increased airflow at higher pressures. Double inlet maximizes airflow efficiency. Ball bearings and cast-aluminum end shields connect blower to heavy-duty, permanent split capacitor Dayton motor. 6 rubber isolators on mounting holes reduce vibration and noise. Flat black finish; compact design. 17" leads.

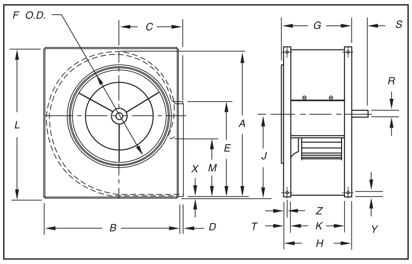
Blower Wheel Diameter	Blower Wheel Diameter	Overall Width	CFM Air Delivery @ Static Pressure Shown 0.000"	0.100"	0.200"	Blower Voltage	Full Load Amps	Hz	RPM	Replaces	Item No.
Transflow Blowers											
2 7⁄16 in	2 7⁄16 in	7 15⁄16 in	77	64	40	115V AC	0.50	60	3130	4C743	**1TDU3**
2 7⁄16 in	2 7⁄16 in	7 15⁄16 in	78	64	40	230V AC	0.28	50/60	3100	—	**3FRF3**
2 3⁄8 in	2 3⁄8 in	11 1⁄16 in	105	87	63	115V AC	0.55	60	2736	4C744	**1TDU4**
2 3⁄8 in	2 3⁄8 in	10 7⁄8 in	104	87	63	230V AC	0.30	50/60	2730	—	**3FRF4**
2 3⁄8 in	2 3⁄8 in	14 1⁄4 in	150	135	98	115V AC	0.73	60	2780	4C745	**1TDU5**
2 3⁄8 in	2 3⁄8 in	17 5⁄8 in	201	187	—	115V AC	0.90	60	2670	4YJ30	**1TDU6**
2 3⁄8 in	2 3⁄8 in	17 11⁄16 in	195	187	—	230V AC	0.52	50/60	2670	—	**3FRF6**
2 3⁄8 in	2 3⁄8 in	22 7⁄8 in	373	320	288	115V AC	0.71	50/60	2680	—	**3HMK2**
Low-Profile Blowers											
2 1⁄2 in	2 1⁄2 in	14 5⁄8 in	127	119	105	115V AC	0.39	50/60	3200	4C825	**1TDU7**
2 15⁄16 in	2 15⁄16 in	14 3⁄4 in	222	212	198	115V AC	0.60	50/60	2750	4C826	**1TDU8**
2 15⁄16 in	2 15⁄16 in	14 3⁄4 in	262	212	198	230V AC	0.28	50/60	2880	—	**3FRF8**

Dayton®

Single-Inlet Forward-Curve Belt-Drive Blowers

- Housing can be rotated to any of 4 standard discharge positions
- Max. inlet air temp.: 150°F
- Max. ambient temp.: 104°F

Single inlet for quiet, efficient performance in general ventilation, exhausting, air conditioning, and industrial air-moving applications. Precision, balanced, forward-curved steel wheels. Die-stamped steel housing. Single-phase motors have automatic reset thermal protection. Drive package components are packed separately.



CW Rotation Shown
5ZCN7

CW Rotation Shown
7HR35

Wheel (in.) Dia.	Width	A	B	C	D	E	F	G	H	J	K	L	M	R	S	T	X	Y	Z
10 1⁄4	4 9⁄16	15 1⁄4	14 5⁄8	7 5⁄16	11⁄16	10 5⁄16	9 13⁄16	9 1⁄2	8 5⁄8	8 7⁄8	6 1⁄2	16 1⁄8	6	3⁄4	3 1⁄8	1 1⁄16	3⁄8	13⁄16	1⁄2
11 1⁄8	6 7⁄16	17 1⁄2	16 5⁄16	8	11⁄16	11 3⁄8	10 7⁄8	11 1⁄4	10 3⁄8	10 1⁄8	8 1⁄4	18	8	3⁄4	3 1⁄8	1 1⁄16	5⁄16	13⁄16	1⁄2
12 3⁄4	6	20 1⁄2	19 1⁄4	9 1⁄16	11⁄16	13 7⁄16	12 1⁄16	11 1⁄4	10 3⁄8	11 3⁄4	8 1⁄4	21 1⁄8	8 1⁄4	3⁄4	3 1⁄8	1 1⁄16	3⁄16	13⁄16	1⁄2
15 1⁄16	9	24 3⁄16	22 1⁄2	10 1⁄2	11⁄16	15 13⁄16	14 3⁄4	15 7⁄16	14 5⁄8	14	12 1⁄2	25	9 7⁄16	1	3 7⁄16	1 1⁄16	1⁄2	13⁄16	1⁄2
17 13⁄16	13	29 1⁄16	26 7⁄8	12 3⁄8	11⁄16	18 3⁄4	18 7⁄16	19 1⁄8	18 7⁄8	16 15⁄16	16 3⁄4	30	18 3⁄4	1	3 1⁄2	1 1⁄16	9⁄16	13⁄16	1⁄2
22 1⁄8	10 7⁄8	39 7⁄16	35 1⁄8	15 11⁄16	5⁄8	27 1⁄4	22 5⁄16	21	20 1⁄8	22 15⁄16	17 1⁄8	40 1⁄8	15 1⁄4	1 3⁄16	3 3⁄4	1 1⁄2	3⁄8	2 1⁄2	3⁄4

Wheel Dia. (in.)	CFM Air Delivery @ RPM Shown 0.125"	0.250"	0.500"	0.750"	1.000"	Blower RPM	Motor HP	CW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor 115/230V, 60 Hz Item No.	CW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 3-Phase Motor 230/460V, 60 Hz Item No.	CCW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 1-Phase Motor 115/230V, 60 Hz Item No.	CCW ROTATION - COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 3-Phase Motor 230/460V, 60 Hz Item No.	CW ROTATION FROM DRIVE END WITHOUT DRIVE PACKAGE** Item No.	CCW ROTATION FROM DRIVE END WITHOUT DRIVE PACKAGE** Item No.
10 1⁄4	970	870	670	—	—	925	0.25	7HR35	7HR22	7HR59	7HR80	5ZCN7	5ZCP7
	1,110	1,020	830	630	—	1,030	0.3333	7HR36	7HR23	7HR60	7HR81		
	1,230	1,180	1,000	830	650	1,150	0.5	7HR13	7HR24	7HR61	7HR82		
	1,480	1,420	1,280	1,150	1,000	1,350	0.75	7HR14	7HR25	7HR62	7HR83		
	1,600	1,530	1,420	1,280	1,180	1,450	1	7HR15	7HR26	7HR63	7HR84		
11 1⁄8	1,430	1,310	1,040	—	—	850	0.5	7HR37	7HR27	7HR64	7HR85	5ZCN8	5ZCP8
	1,820	1,720	1,500	1,250	930	1,050	0.75	7HR16	7HR28	7HR65	7HR86		
	2,060	1,970	1,810	1,610	1,390	1,175	1	7HR17	7HR29	7HR66	7HR87		
	2,380	2,320	2,170	2,020	1,830	1,350	1.5	7HR18	7HR30	7HR67	7HR88		
12 3⁄4	1,730	1,584	1,095	—	—	650	0.5	7HR38	7HR31	7HR68	7HR89	5ZCN9	5ZCP3
	2,050	1,910	1,524	1,050	—	750	0.75	7HR19	7HR32	7HR69	7HR90		
	2,350	2,240	1,950	1,570	1,110	850	1	7HR20	7HR33	7HR70	7HR91		
	2,750	2,600	2,400	2,120	1,780	970	1.5	7HR21	7HR34	7HR71	7HR92		
15 1⁄16	3,280	2,780	1,990	—	—	540	0.75	7HR39	7HR47	7HR72	7HR93	5ZCP0	5ZCP4
	3,640	3,330	2,520	1,620	—	590	1	7HR40	7HR48	7HR73	7HR94		
	4,140	3,840	3,230	2,420	1,820	665	1.5	7HR41	7HR49	7HR74	7HR95		
	4,700	4,290	3,880	3,230	2,520	740	2	7HR42	7HR50	7HR75	7HR96		
17 13⁄16	4,440	4,000	2,360	—	—	470	1	7HR43	7HR51	7HR76	7HR97	5ZCP1	5ZCP5
	5,180	4,800	3,810	1,050	—	535	1.5	7HR44	7HR52	7HR77	7HR98		
	5,800	5,460	4,560	3,210	1,060	590	2	7HR45	7HR53	7HR78	7HR99		
	6,680	6,370	5,710	4,780	3,360	670	3	—	7HR54	—	7HT00		
22 1⁄8	7,680	7,070	5,500	3,540	—	390	2	7HR46	7HR55	7HR79	7HT01	5ZCP2	5ZCP6
	8,780	8,380	7,220	5,450	—	445	3	—	7HR56	—	7HT02		
	10,600	10,200	9,600	8,430	7,170	530	5	—	7HR57	—	7HT03		
	12,100	11,550	11,000	10,300	9,600	600	7.5	—	7HR58	—	7HT04		

*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Assembled

Unassembled

Housing Supports

Dayton®

Direct-Drive Double Inlet Full- and ¾-Width Forward-Curve Blowers

- Blower wheel is reinforced to ensure optimal performance and trouble-free service
- Discharge can be rotated in four 90° increments
- Units replace most direct-drive blowers with the same horsepower ratings
- Max. inlet/ambient temp.: 104°F

Used in new and replacement installations for heating, air conditioning, and ventilation systems. Heavy-gauge steel blower housings have a galvanized steel finish, except assembled models have a gray enamel finish. Steel wheels have corrosion-resistant finish.

UNASSEMBLED

Units include housing support with resilient pads, adjustable motor mounting bracket with hardware, and assembly instructions. Bracket for 9½" units adjusts to fit blower motors 3½" to 6⅛" long. Bracket for 10⅝" units adjusts to fit blower motors 3¹³⁄₁₆" to 6⅝" long.

For Use With	Item No.
Blower Housing Supports	
1XJX7	**5TCJ2**
1XJX8 & 1XJX9	**5TCJ3**

Item No.	Housing H (in.)	Housing W (in.)	Housing D (in.)	Discharge Height (in.)	Discharge Width (in.)
Blower Dimensions					
1XJX7	12 ¾ in	9 ¾ in	12 9⁄16 in	7 13⁄16 in	9 ⅛ in
1XJX8	15 9⁄32 in	12 5⁄16 in	15 in	10 ¼ in	11 13⁄16 in
1XJX9	15 9⁄32 in	12 5⁄16 in	15 in	10 ¼ in	11 13⁄16 in
1XJY1	17 5⁄16 in	11 ½ in	16 9⁄16 in	11 ⅜ in	10 ½ in
1XJY2	17 5⁄16 in	14 1⁄16 in	16 9⁄16 in	11 ⅜ in	13 1⁄16 in
1XJY3	20 5⁄16 in	13 5⁄16 in	19 9⁄32 in	13 ⅜ in	12 3⁄16 in
1XJY4	20 5⁄16 in	13 5⁄16 in	19 9⁄32 in	13 ⅜ in	12 3⁄16 in
5NRC3	15 ¼ in	9 3⁄16 in	15 in	10 ⅜ in	9 3⁄16 in
5NRC4	15 ¼ in	11 ¾ in	15 in	10 5⁄16 in	11 ¾ in
5NRC5	17 ½ in	10 ⅝ in	16 ¾ in	11 ½ in	10 ⅝ in
5NRC6	17 ½ in	13 in	16 ¾ in	11 ½ in	13 in

Wheel Dia.	Wheel Width (in.)	CFM Air Delivery @ Static Pressure Shown .300"	.400"	.500"	.600"	.700"	.800"	.900"	1.000"	1.100"	1.200"	1.250"	1.300"	1.400"	1.500"	1.600"	1.700"	Speed	Motor RPM	Motor HP	Volts @ 60 Hz	Full Load Amps	BLOWER WITH MOTOR Item No.	BLOWER WITHOUT MOTOR Item No.
Assembled																								
9 7⁄16 in	7 3⁄16	1009	1005	1001	929	838	692	—	—	—	—	—	—	—	—	—	—	1	1070	⅙	115	3.7	**1XJX7**	—
	9 7⁄16	1457	1340	1319	1301	1230	1117	715	—	—	—	—	—	—	—	—	—	1	986	¼	115	4.9	**1XJX8**	—
		1638 1516 1368 1132	1610 1496 1310 1101	1545 1437 1280 1083	1457 1373 1256 1046	1358 1320 1185 1012	1225 1139 1052 896	1050 926 826 813	—	—	—	—	—	—	—	—	—	4	1085 1040 937 858	⅓	115	6.9	**1XJX9**	—
11 in	7 13⁄16	#	#	#	#	#	1857 1706 1524 1327	1751 1632 1458 1279	1654 1546 1393 1162	1521 1381 1208 1049	1188 1033 925 846	938 863 841 622	—	—	—	—	—	4	1060 1035 989 946	½	115	9.0	**1XJY1**	—
	10 9⁄16	#	#	#	#	#	#	2016 1925 1745 1587	1864 1776 1636 1474	1704 1589 1430 1345	1399 1255 1209 1152	1217 1184 1128 1110	1171 1122 1074 880	—	—	—	—	4	1100 1080 1050 1027	¾	115	9.0	**1XJY2**	—
13 in	9 ½	#	#	#	#	#	#	#	#	#	2701 2480 2248	2591 2400 2170	2522 2373 2143	2373 2218 2032	2231 2084 1890	2057 1910 1685	1851 1696 1498	3	1097 1070 1038	1	115	15.3	**1XJY3**	—
		#	#	#	#	#	#	#	#	#	2553 2472 2255	2591 2400 2170	2465 2401 2204	2316 2282 2078	2149 2116 1959	1957 1925 1707	1416 1334	3	1086 1062 1039	1	208-230	7.2/6.9	**1XJY4**	—
Unassembled																								
9½ in	6 ½	#	1245	1225	1200	1150	1105	1040	—	—	—	—	—	—	—	—	—	1	1050	¼	115	12.3	**7HL51**	**5NRC3**
		#	#	#	# 750 615 535	# 725 580 480	# 615 400 340	690 —	560 —	—	—	—	—	—	—	—	—	4	1050	⅕	115	6.5	**7HL52**	**5NRC3**
		#	#	#	#	# 845 760	# 1035 830 750	# 980 815 705	#945 735 610	990 —	790 —	—	—	—	—	—	—	4	1075	⅓	115	4.0	**7HL53**	**5NRC3**
		#	#	#	# 1230 1190 #	# 1185 1170 #	1250 1170 1150 1080	1180 1140 1095 1030	1155 1060 960 950	1125 959 765 650	895 —	—	—	—	—	—	—	4	1075	½	115	6.3	**7HL54**	**5NRC3**
	9 ¼	1335	1325	1300	1260	1195	—	—	—	—	—	—	—	—	—	—	—	1	1050	¼	115	12.3	**7HL55**	**5NRC4**
		#	#	#	# 845	# 925 835	# 1060 910 735	1090 915 870	920 860 730	785 350 —	—	—	—	—	—	—	—	4	1075	⅓	115	4.0	**7HL56**	**5NRC4**
		#	#	#	# 1395 1280	# 1410 1300 1200	# 1345 1235 1135	1460 —	1290 —	875 —	—	—	—	—	—	—	—	4	1075	½	115	6.3	**7HL57**	**5NRC4**
		#	#	# 1575 1480	# 1535 1440	1700 1580 1520 1430	1625 1555 1495 1380	1515 1480 1375 1270	1435 1275 1150 1075	—	—	—	—	—	—	—	—	4	1075	¾	115	8.7	**7HL58**	**5NRC4**
10 13⁄16 in	8	#	#	#	#	#	# 845 715	# 830 700	# 990 815 670	# 960 770	# 850 —	# —	895 —	780 —	705 —	—	—	4	1075	⅓	115	12.0	**7HL59**	**5NRC5**
		#	#	#	#	#	#	#	# 1375 1230 1090	# 1340 1180 1010	# 1235 1085 930	# 1150 —	# —	1205 —	700 —	—	—	4	1075	½	115	6.3	**7HL60**	**5NRC5**
		#	#	#	#	#	#	#	# 1695 1500 1320	# 1660 1485 1305	# 1605 1440 1255	# 1570 1400 1200	# 1520 1365 1155	1715 1340 —	1460 —	—	—	4	1075	¾	115	8.7	**7HL61**	**5NRC5**
	10 ⅜	#	#	#	#	# 955 655	# 940 605	# 890 880 515	# 805 800	# 690 —	905 —	830 —	710 —	—	—	—	—	4	1075	⅓	115	4.0	**7HL62**	**5NRC6**
		#	#	#	#	#	# 1350 1170	# 1435 1300 1105	# 1415 1250 960	# 1340 1040 820	1440 —	905 —	—	—	—	—	—	4	1075	½	115	8.7	**7HL63**	**5NRC6**
		#	#	#	#	# 2020 1745 1565	# 2005 1735 1555	# 1905 1710 1530	2200 1865 1675 1460	2060 1790 1590 1245	1925 1650 1135 975	1555 —	—	—	—	—	—	4	1075	¾	115	8.7	**7HL64**	**5NRC6**
10⅝ in		#	#	#	#	# 2020 1745 1565	# 2005 1735 1555	# 1905 1710 1530	2200 1865 1675 1460	2060 1790 1590 1245	1925 1650 1135 975	1555 —	—	—	—	—	—	4	1075	¾	208-230	4.8/4.4	**7HL65**	**5NRC6**

 # WARNING: Motor overload will result if blower is operated at static pressures below performance shown.

Double Inlet Full- and 3/4-Width Forward Curve Belt-Drive Blowers

Dayton®

- Max. blower operating temp.: 150°F
- Max. motor operating temp.: 104°F
- Discharge can be rotated in four 90° increments

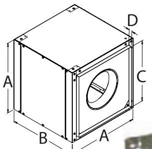
Prelubricated, sealed ball bearings with rubber isolators and dynamically balanced forward curved wheel. Precision-ground shafting with both keyways and flats for a wide range of drives and HP. A variable-pitch motor sheave is provided when ordered, complete with drive package for speed adjustment. Die-stamped steel housing with mounting supports. Mounting hardware and isolation grommets included. Blowers include a motor mounting bracket built for 1½ HP maximum. 1/6- to 1½-HP motor and drives for bottom horizontal discharge packed separately, when ordered complete. Longer or shorter belt may be required for other discharge positions. 2- to 5-HP motors are floor mount only.

1/6 to 1½ HP with Drive Package, Shown Assembled

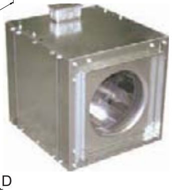
2 to 5 HP with Drive Package, Shown Assembled

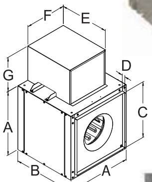
Wheel Dia.	Wheel Width (in.)	Housing H (in.)	Housing W (in.)	Housing D (in.)	Disch. H	Disch. W	CFM Air Delivery @ Static Pressure Shown 0.25"	0.5"	0.625"	0.75"	1.00"	1.25"	Blower RPM	Motor HP	Complete with Drive Package** Open Dripproof 1-Phase Motor 115/230V Item No.	Totally Enclosed 1-Phase Motor 115/230V Item No.	Open Dripproof 3-Phase Motor 230/460V Item No.	Totally Enclosed 3-Phase Motor 230/460V Item No.	Without Drive Package** Item No.
10¼"	6¾	16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	1090	—	—	—	—	—	690	¼	7HL79	7J396	—	7HL80	5NRC7
		16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	#	1,365	1,190	—	—	—	917	⅓	7HL81	7J397	7HL82	7J398	
		16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	#	1,590	1,425	1,250	—	—	990	½	7HL83	7J399	7HL84	7J400	
		16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	#	1,920	1,750	1,625	1,330	—	1,106	¾	7HL85	7J401	7HL86	7J402	
		16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	#	2,190	2,055	1,935	1,665	1,350	1,212	1	7HL87	7J403	7HL88	7J404	
		16 15/16	9 3/16	14 15/16	6 5/16	9 3/16	#	2,535	2,430	2,335	2,105	1,870	1,358	1 ½	7HL89	—	7HL90	7J405	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	1040	—	—	—	—	—	706	1/6	7HL91	—	—	—	5NRC8
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	1040	—	—	—	—	—	706	¼	—	7J406	—	—	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	#	1,200	—	—	—	—	897	⅓	7HL92	7J407	7HL93	7J408	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	#	1,565	1,450	—	—	—	1,041	½	7HL94	7J409	7HL95	7J410	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	#	#	1,780	1,690	—	—	1,182	¾	7HL96	7J411	7HL97	7J412	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	#	#	#	2,020	1,850	1,250	1,324	1	7HL98	7J413	7HL99	7J414	
		14 3/16	9 3/16	12 ½	6 5/16	9 3/16	#	#	2,300	2,225	2,120	2,000	1,458	1 ½	7HN00	—	7HN01	7J415	
	9 3/16	16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	1550	—	—	—	—	—	700	¼	7HN02	7J416	—	7HN03	5NRC9
		16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	#	2,070	1,920	1,800	—	—	959	½	7HN04	7J417	7HN05	7J418	
		16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	#	2,420	2,310	2,170	—	—	1,068	¾	7HN06	7J419	7HN07	7J420	
		16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	#	2,620	2,570	2,460	2,220	—	1,150	1	7HN08	7J421	7HN09	7J422	
		16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	#	3,050	2,980	2,940	2,730	2,540	1,300	1 ½	7HN10	—	7HN11	7J423	
		16 15/16	11 13/16	14 15/16	6 5/16	11 13/16	#	3,320	3,280	3,220	3,100	2,910	1,406	2	7HN12	7J424	7HN13	7J425	
11⅛"	7⅝	18 13/16	10 ½	16 9/16	7	10 ½	1250	—	—	—	—	—	565	¼	7HN14	7J426	—	7HN15	5NRD0
		18 13/16	10 ½	16 9/16	7	10 ½	1530	—	—	—	—	—	625	⅓	7HN16	7J427	7HN17	7J428	
		18 13/16	10 ½	16 9/16	7	10 ½	#	1,940	1,650	1,210	—	—	833	½	7HN18	7J429	7HN19	7J430	
		18 13/16	10 ½	16 9/16	7	10 ½	#	2,280	2,050	1,780	—	—	907	¾	7HN20	7J431	7HN21	7J432	
		18 13/16	10 ½	16 9/16	7	10 ½	#	2,670	2,470	2,280	1,750	—	1,000	1	7HN22	7J433	7HN23	7J434	
		18 13/16	10 ½	16 9/16	7	10 ½	#	3,050	2,940	2,745	2,350	1,820	1,100	1 ½	7HN24	—	7HN25	7J435	
		18 13/16	10 ½	16 9/16	7	10 ½	#	3,440	3,330	3,180	2,850	2,440	1,200	2	7HN26	7J436	7HN27	7J437	
	10⅛	18 13/16	13 ⅛	16 9/16	7	13 ⅛	1230	—	—	—	—	—	534	¼	7HN28	7J438	—	7HN29	5NRD1
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	1650	—	—	—	—	—	593	⅓	7HN30	7J439	7HN31	7J440	
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	#	2,050	1,600	—	—	—	795	½	7HN32	7J441	7HN33	7J442	
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	#	2,450	2,050	1,620	—	—	857	¾	7HN34	7J443	7HN35	7J444	
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	#	#	#	2,700	1,980	—	1,000	1	7HN36	7J445	7HN37	7J446	
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	#	#	#	3,300	2,740	1,980	1,100	1 ½	7HN38	—	7HN39	7J447	
		18 13/16	13 ⅛	16 9/16	7	13 ⅛	#	#	#	#	3,390	2,840	1,200	2	7HN40	7J448	7HN41	7J449	
12¾"	9 1/16	21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	1790	—	—	—	—	—	470	⅓	7HN42	7J450	7HN43	7J451	5NRD2
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	2350	—	—	—	—	—	547	½	7HN44	7J452	7HN45	7J453	
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	#	2,800	2,520	2,150	—	—	706	¾	7HN46	7J454	7HN47	7J455	
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	#	3,060	2,790	2,450	—	—	734	1	7HN48	7J456	7HN49	7J457	
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	#	3,710	3,480	3,250	2,600	—	826	1 ½	7HN50	—	7HN51	7J458	
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	#	#	4,200	3,980	3,580	3,000	930	2	7HN52	7J459	7HN53	7J460	
		21 11/16	12 ¼	19 ⅜	8 ⅜	12 ¼	#	4,880	4,720	4,540	4,180	3,750	1,012	3	—	—	7HN54	7J461	
	12 1/16	21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	2100	—	—	—	—	—	455	⅓	7HN55	7J462	7HN56	7J463	5NRD3
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	2750	—	—	—	—	—	535	½	7HN57	7J464	7HN58	7J465	
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	#	3,100	2,400	—	—	—	656	¾	7HN59	7J466	7HN60	7J467	
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	#	3,590	3,180	2,440	—	—	711	1	7HN61	7J468	7HN62	7J469	
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	#	#	#	4,080	2,950	—	826	1 ½	7HN63	—	7HN64	7J470	
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	#	#	#	4,550	3,800	3,350	888	2	7HN65	7J471	7HN66	7J472	
		21 11/16	15 ⅝	19 ⅜	8 ⅜	15 ⅝	#	#	#	5,270	4,920	4,550	1,000	3	—	—	7HN67	7J473	
15 1/16"	10 15/16	25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	2790	—	—	—	—	—	402	½	7HN68	7J474	7HN69	7J475	5NRD4
		25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	3420	—	—	—	—	—	451	¾	7HN70	7J476	7HN71	7J477	
		25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	#	4,080	3,500	2,480	—	—	577	1	7HN72	7J478	7HN73	7J479	
		25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	#	#	4,600	4,170	—	—	647	1 ½	7HN74	—	7HN75	7J480	
		25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	#	#	5,100	4,770	3,400	—	684	2	7HN76	7J481	7HN77	7J482	
		25 ¾	14 11/16	22 11/16	9 11/16	14 11/16	#	#	#	#	#	5,400	837	3	—	—	7HN78	7J483	
	14⅞	25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	3300	—	—	—	—	—	402	½	7HN79	7J484	7HN80	7J485	5NRD5
		25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	3980	—	—	—	—	—	443	¾	7HN81	7J486	7HN82	7J487	
		25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	#	3,950	—	—	—	—	523	1	7HN83	7J488	7HN84	7J489	
		25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	#	#	4,800	4,100	—	—	613	1 ½	7HN85	—	7HN86	7J490	
		25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	#	#	#	5,500	4,080	—	684	2	7HN87	7J491	7HN88	7J492	
		25 ¾	18 ⅝	22 11/16	9 11/16	18 ⅝	#	#	#	#	#	5,800	806	3	—	—	7HN89	7J493	
17 13/16"	12½	30 11/16	17 ⅜	27	11 ¾	17 ⅜	4320	—	—	—	—	—	360	¾	7HN90	7J494	7HN91	7J495	5NRD6
		30 11/16	17 ⅜	27	11 ¾	17 ⅜	5400	3,180	—	—	—	—	412	1	7HN92	7J496	7HN93	7J497	
		30 11/16	17 ⅜	27	11 ¾	17 ⅜	#	5,900	5,180	3,630	—	—	500	1 ½	7HN94	—	7HN95	7J498	
		30 11/16	17 ⅜	27	11 ¾	17 ⅜	#	#	#	6,180	—	—	571	2	7HN96	7J499	7HN97	7J500	
		30 11/16	17 ⅜	27	11 ¾	17 ⅜	#	#	#	#	7,100	5,500	631	3	—	—	7HN98	7J501	
		30 11/16	17 ⅜	27	11 ¾	17 ⅜	#	#	#	9,200	8,400	7,150	703	5	—	—	7HN99	7J502	
	17½	30 11/16	21 ⅞	27	11 ¾	21 ⅞	4350	—	—	—	—	—	331	¾	7HP00	7J503	7HP01	7J504	5NRD7
		30 11/16	21 ⅞	27	11 ¾	21 ⅞	#	3,400	—	—	—	—	412	1	7HP02	7J505	7HP03	7J506	
		30 11/16	21 ⅞	27	11 ¾	21 ⅞	#	5,470	—	—	—	—	451	1 ½	7HP04	—	7HP05	7J507	
		30 11/16	21 ⅞	27	11 ¾	21 ⅞	#	#	#	6,900	—	—	556	2	7HP06	7J508	7HP07	7J509	
		30 11/16	21 ⅞	27	11 ¾	21 ⅞	#	#	#	#	7,100	5,410	620	3	—	—	7HP08	7J510	
		30 11/16	21 ⅞	27	11 ¾	21 ⅞	#	#	#	#	#	8,405	703	5	—	—	7HP09	7J511	

*# WARNING: Motor overload will result if blower is operated at static pressure below performance shown. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*



Direct-Drive





Belt-Drive

In-Line Duct Blowers

- Aluminum backward-inclined, nonoverloading centrifugal wheel design
- Mount horizontally or vertically
- Max. ambient temp.: 104°F

Designed for indoor clean air applications including intake, exhaust, return, or makeup air systems in industrial or commercial buildings. Collars simplify duct connections. Panels on each side provide quick access to internal fan components.

Direct-Drive—Units are speed controllable. 2RB86, 10C387, and 10C388 have 3-speed motor. Units are preassembled.

20UD15 to 20UD17 feature electronically commutated (EC) motor on the blowers, providing up to 60% energy savings. Potentiometer dial on motor allows speed control down to 80%. Optional Speed Control Kit 43Y140 (sold on page 2955) allows you to manually adjust a fan's speed from a remote location and mounts to a wall using a 2x4 junction box.

- Max. inlet air temp.: 104°F
- Include NEMA 1 junction box

Dayton

AMCA Certified Ratings — Sound and Air Performance

Belt-Drive—Bearing cover and motor cover provide longer service life. Drive package components packed separately.

- Max. inlet air temp.: 160°F
- Pillow block bearings

Item No.	Dimensions (in.) A	B	C	D	E	F	G	Inlet Dia. (in.)
Direct-Drive								
2RB86, 10C387, 10C388, 20UD15	15"	16"	11⅞"	1"	—	—	—	8⅜"
2RB87	17"	21"	13⅞"	1"	—	—	—	8¼"
5TCK9, 5TCL0, 20UD16	19"	21"	15⅞"	1"	—	—	—	9⅛"
5TCL1, 20UD17	23"	22"	19⅞"	1"	—	—	—	10½"
5TCL2	26"	26"	22⅞"	1"	—	—	—	11⅝"
Belt-Drive								
5TCL3, 5TCL4	17⅛"	21"	11⅞"	1½"	17 ¾"	13"	13 ¼"	7¾"
2RB89	17⅛"	21"	13⅞"	1½"	17 ¾"	13"	13 ¼"	7¾"
10C389	21⅛"	21"	17⅞"	1½"	20"	17"	13 ¼"	9⅛"
5AV78, 10C391	23⅛"	22"	19⅞"	1½"	20"	17"	13 ¼"	10½"
5AV79, 10C392	26⅛"	26"	22⅞"	1½"	20"	17"	13 ¼"	11⅝"
5AV81	31⅛"	32"	27⅞"	1½"	30"	20"	16"	14½"
5AV82	38¼"	34"	34⅞"	1½"	30"	20"	16"	17½"
5AV84	46"	38"	41⅞"	1½"	35 ¼"	22"	18"	20½"

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	Blower RPM	Sones @ 0.125" SP @ 5 ft.#	BLOWER WITH MOTOR 115V, 1-Phase Motor HP	115V, 1-Phase Item No.	EC Motor, 115V, 1-Phase Motor HP	EC Motor, 115V, 1-Phase Item No.
Direct Drive														
11"	225	104	—	—	—	—	—	—	1050	3.6				
	312	244	140	—	—	—	—	—	1300	5.4	1⁄12 hp	**10C387**	—	—
	394	342	280	201	—	—	—	—	1550	7.3				
	369	188	—	—	—	—	—	—	1050	3.9				
	519	397	245	—	—	—	—	—	1300	5.4	1⁄12 hp	**10C388**	—	—
	654	564	457	334	—	—	—	—	1550	7.5				
	353	—	—	—	—	—	—	—	900	2.8	—	—		
	475	275	—	—	—	—	—	—	1050	4.5				
	660	523	352	—	—	—	—	—	1300	6.7	⅛ hp	**2RB86**	⅙ hp	**20UD15**
	830	720	604	462	276	—	—	—	1550	9.3				
	948	850	751	641	507	352	—	—	1725	11.0	—	—		
	1403	1350	1292	1227	1156	1078	831	—	1725	12.4	¼ hp	**2RB87**	—	—
13⅛"	894	766	587	—	—	—	—	—	900	4.6	—	—		
	1080	976	858	707	—	—	—	—	1050	6.1	—	—		
	1189	1094	992	873	692	—	—	—	1140	7.2	⅙ hp	**5TCL0**		
	1383	1298	1214	1122	1018	893	—	—	1300	8.7	—	—	½ hp	**20UD16**
	1679	1607	1536	1466	1393	1313	1122	—	1550	11.5	—	—		
	1883	1818	1754	1692	1628	1562	1416	1239	1725	14.1	½ hp	**5TCK9**		
14½"	1487	1317	1033	—	—	—	—	—	860	6.2	—	—		
	2061	1942	1818	1666	1446	1121	—	—	1140	10.5	⅓ hp	**5TCL1**	¾ hp	**20UD17**
	2870	2790	2703	2614	2524	2429	2188	1809	1550	16.5	—	—		
	2061	1942	1818	1666	1446	1121	—	—	1140	10.5	½ hp	**5TCL2**	—	—
16¾"	3194	3061	2922	2773	2587	2388	1808	—	1140	13.4				

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	1.500"	1.75"	Blower RPM	Motor HP	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	COMPLETE WITH DRIVE PACKAGE** 1-Phase Motor 115/230V Item No.	COMPLETE WITH DRIVE PACKAGE** 3-Phase Motor 208-230/460V Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive																	
11 in	404	383	358	331	302	272	211	141	—	—	1969	¼ hp	0.26	19.1	**7K438**	—	
	451	432	411	387	362	335	283	225	161	—	2174	⅓ hp	0.35	21	**7K439**	—	**5TCL3**
	520	502	486	466	446	424	378	332	285	229	2480	½ hp	0.52	25	**7K440**	**7K441**	
	964	913	857	796	728	651	433	—	—	—	1692	¼ hp	0.26	16.0	**7K442**	—	
	1074	1029	980	927	871	809	660	—	—	—	1868	⅓ hp	0.35	17.6	**7K443**	—	
	1236	1199	1157	1114	1068	1021	913	784	632	—	2131	½ hp	0.52	21	**7K444**	**7K445**	**5TCL4**
	1432	1399	1366	1329	1292	1253	1170	1077	980	849	2450	¾ hp	0.79	25	**7K446**	**7K447**	
	1580	1550	1521	1489	1455	1421	1349	1272	1188	1099	2693	1 hp	1.05	28	**7K448** ††	**7K449**	
11 ½ in	1405	1352	1298	1247	1187	1110	939	—	—	—	1772	⅓ hp	0.35	16.6	**7M7T0**	—	
	1623	1577	1530	1484	1439	1396	1262	1119	—	—	2029	½ hp	0.52	19.8	**7M7T1**	**7M7T4**	**2RB89**
	1871	1830	1790	1749	1708	1668	1591	1472	1358	1197	2323	¾ hp	0.79	23	**7M7T2**	**7M7T5**	
	2066	2029	1993	1956	1919	1882	1810	1734	1626	1522	2556	1 hp	1.05	26	**7M7T3** ††	**7M7T6**	
11½	1265	1207	1149	1088	1003	917	—	—	—	—	1609	¼ hp	0.26	15.4	**7M7R9**	—	
13 ½ in	1650	1562	1460	1326	1168	955	—	—	—	—	1292	¼ hp	0.26	11.8	**7J627**	—	
	1842	1758	1677	1573	1449	1306	—	—	—	—	1427	⅓ hp	0.35	13.6	**7J628** ††	—	
	2121	2045	1978	1903	1815	1708	1461	1087	—	—	1627	½ hp	0.52	15.8	**7J629**	**7J630**	**10C389**
	2456	2398	2332	2274	2211	2138	1960	1753	1480	—	1872	¾ hp	0.79	20	**7J631** ††	**7J632**	
	2708	2661	2598	2543	2490	2432	2294	2125	1935	1698	2057	1 hp	1.05	23	**7J633** ††	**7J634**	
	3106	3069	3020	2965	2917	2871	2771	2653	2507	2351	2351	1 ½ hp	1.57	30	**7J635** ††	**7J636**	
14 in	1362	1185	860	—	—	—	—	—	—	—	800	¼ hp	0.11	6.3	**7H454**	**7H468**	
	1927	1810	1681	1538	1311	—	—	—	—	—	1076	¼ hp	0.26	10.7	**7H455**	**7H469**	
	2142	2039	1927	1807	1667	1463	—	—	—	—	1185	⅓ hp	0.35	12.1	**7H456**	**7H470**	
	2476	2392	2297	2197	2095	1979	1636	—	—	—	1356	½ hp	0.52	14.2	**7H457**	**7H471**	**5AV78**
	2858	2787	2708	2626	2539	2449	2253	1964	1447	—	1553	¾ hp	0.79	16.2	**7A0H7**	**7A0H8**	
	3159	3094	3028	2953	2878	2798	2635	2451	2177	1752	1709	1 hp	1.05	18.2	**7A0H9** ††	**7A0J0**	
	3633	3576	3520	3461	3395	3330	3193	3050	2894	2705	1956	1 ½ hp	1.57	24	**7A0J1** ††	**7A0J2**	
	4009	3958	3907	3856	3800	3741	3622	3494	3365	3225	2153	2 hp	2.10	30	**7A0J3** ††	**7A0J4**	
16 in	2373	2209	2015	1759	—	—	—	—	—	—	873	¼ hp	0.26	8.8	**7A0J5**	—	
	2643	2504	2339	2150	1893	—	—	—	—	—	962	⅓ hp	0.35	9.9	**7A0J6**	—	
	3061	2944	2812	2665	2504	2301	—	—	—	—	1101	½ hp	0.52	12.4	**7H458**	**7H472**	
	3538	3436	3333	3212	3087	2946	2611	2071	—	—	1261	¾ hp	0.78	15.5	**7H459**	**7H473**	**5AV79**
	4503	4422	4341	4259	4178	4079	3880	3656	3389	3055	1588	1 ½ hp	1.56	22	**7A0J7** ††	**7A0J8**	
	3911	3818	3725	3628	3515	3402	3146	2815	2311	—	1387	1 hp	1.04	18.0	**7H460** ††	**7H474**	
	4973	4899	4825	4751	4677	4603	4425	4240	4037	3802	1748	2 hp	2.08	28	**7A0J9** ††	**7A0K0**	
	5713	5648	5584	5519	5454	5390	5260	5103	4946	4774	2001	3 hp	3.12	40	—	**7A0K1**	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet hemispherical fan sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. †† 115/208-230V.*

CONTINUED

CONTINUED

In-Line Duct Blowers

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.000"	1.250"	1.500"	1.75"	Blower RPM	Motor HP	Max. BHP†	Sones @ 0.125" SP @ 5 ft.#	Complete with Drive Package** 1-Phase Motor 115/230V Item No.	Complete with Drive Package** 3-Phase Motor 208-230/460V Item No.	Without Drive Package** Item No.
Belt-Drive (Cont.)																	
20 in	3315	3018	2670	2042	—	—	—	—	—	—	660	⅓ hp	0.34	11.7	7A0K8	—	5AV81
	3867	3624	3348	3036	2572	—	—	—	—	—	756	½ hp	0.52	12.7	7A0K9	7A0L0	
	4484	4285	4061	3812	3544	3239	—	—	—	—	865	¾ hp	0.79	14.1	7H464	7H478	
	4972	4796	4598	4391	4159	3916	3203	—	—	—	952	1 hp	1.04	15.7	7H465 ††	7H479	
	5741	5587	5430	5253	5075	4874	4452	3878	—	—	1090	1 ½ hp	1.57	19.1	7H466 ††	7H480	
	6350	6210	6070	5920	5758	5597	5233	4836	4316	—	1200	2 hp	2.09	22	7H467 ††	7H481	
	7303	7181	7059	6936	6806	6665	6383	6063	5738	5363	1373	3 hp	3.12	27	—	7A0L1	
24	5269	4833	4351	3685	—	—	—	—	—	—	569	½ hp	0.51	12.3	7A0L2	—	5AV82
24 in	5269	4833	4351	3685	—	—	—	—	—	—	569	½ hp	0.51	12.3	—	7A0L3	5AV84
	6132	5768	5372	4946	4394	—	—	—	—	—	651	¾ hp	0.78	14.3	7A0L4	7A0L5	
	6816	6498	6156	5782	5386	4884	—	—	—	—	717	1 hp	1.04	16.2	7A0L6 ††	7A0L7	
	7935	7680	7384	7086	6761	6425	5604	—	—	—	826	1 ½ hp	1.59	19.5	7A0L8 ††	7A0L9	
	8720	8488	8231	7960	7681	7384	6756	5889	—	—	903	2 hp	2.09	22	7H575 ††	7H482	
	10,048	9845	9643	9409	9173	8936	8421	7881	7219	6268	1034	3 hp	3.14	28	—	7H483	
	11,973	11,802	11,631	11,460	11,270	11,070	10,671	10,245	9804	9345	1225	5 hp	5.20	41	—	7H484	
30 in	7693	7033	6181	4827	—	—	—	—	—	—	449	¾ hp	0.78	12.2	7A0M0	7A0M1	
	8598	7982	7332	6450	4898	—	—	—	—	—	494	1 hp	1.04	14.7	7A0M2 ††	7A0M3	
	10,022	9469	8956	8363	7611	6662	—	—	—	—	566	1 ½ hp	1.57	17.2	7A0M4 ††	7A0M5	
	11,129	10,636	10,150	9676	9119	8418	—	—	—	—	623	2 hp	2.09	19.3	7A0M6 ††	7A0M7	
	12,862	12,446	12,004	11,588	11,186	10,703	9547	7803	—	—	713	3 hp	3.13	23	—	7H485	
	15,380	15,041	14,680	14,307	13,943	13,604	12,860	11,957	10,839	9309	845	5 hp	5.23	27	—	7H486	
	17,693	17,396	17,099	16,776	16,450	16,124	15,526	14,888	14,171	13,273	967	7 ½ hp	7.85	33	—	7H487	
Belt-Drive, High-Pressure																	
14 in	1484	1417	1340	1252	1155	1039	—	—	—	—	1318	¼ hp	0.26	13.0	7J647	—	10C391
	1650	1591	1527	1452	1373	1284	1062	—	—	—	1455	⅓ hp	0.35	14.8	7J648 ††	—	
	1898	1847	1794	1737	1671	1601	1449	1256	—	—	1660	½ hp	0.52	17.5	7J649	7J650	
	2195	2152	2106	2060	2011	1958	1836	1706	1553	1370	1908	¾ hp	0.79	21	7J651 ††	7J652	
	2422	2383	2342	2301	2259	2213	2111	2001	1882	1744	2098	1 hp	1.05	25	7J653 ††	7J654	
	2780	2746	2711	2676	2639	2603	2525	2437	2339	2244	2399	1 ½ hp	1.57	30	7J655 ††	7J656	
	3070	3038	3007	2976	2943	2910	2843	2771	2691	2601	2643	2 hp	2.10	33	7J657 ††	7J658	
16 in	1938	1834	1713	1563	1377	1117	—	—	—	—	1012	¼ hp	0.26	8.3	7J659	—	10C392
	2159	2067	1963	1847	1706	1537	—	—	—	—	1117	⅓ hp	0.35	9.5	7J660 ††	—	
	2487	2408	2327	2232	2133	2015	1724	1295	—	—	1275	½ hp	0.52	11.9	7J661	7J662	
	2879	2812	2741	2671	2588	2504	2307	2059	1734	—	1465	¾ hp	0.79	15.3	7J663 ††	7J664	
	3178	3118	3055	2991	2925	2849	2694	2503	2275	2002	1611	1 hp	1.05	18.6	7J665 ††	7J666	
	3651	3600	3546	3490	3435	3379	3250	3117	2956	2776	1843	1 ½ hp	1.57	26	7J667 ††	7J668	
	4030	3983	3936	3886	3835	3784	3680	3560	3439	3295	2029	2 hp	2.10	30	7J669 ††	7J670	
	4618	4577	4536	4495	4451	4407	4318	4229	4125	4019	2319	3 hp	3.13	38	—	7J671	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). # The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet hemispherical fan sone levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. †† 115/208-230V.*

DELHI

Centrifugal In-Line Belt-Drive Duct Blowers and Filters

3F532 Shown with optional filter rack

- Ball bearing motors are rated for continuous duty
- Filter section has quick-access, washable 1"-thick aluminum mesh filter panel
- All-position mount (shaft horizontal only)
- Max. inlet/ambient air temp.: 140°F

The internal air mover is a quiet, forward-curved, ball bearing, double inlet blower. Access panel allows convenient motor and drive installation and servicing from either side. ½" internal fiberglass insulation helps isolate noise and overcome condensation on cabinet when used in cooling applications. Use indoors with clean air heating, cooling, and ventilating systems. Up to 25% blower speed and cfm reduction using variable pitch motor sheaves when ordered with motor and drives. Drive package components are packed separately.

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.125"	0.250"	0.375"	0.500"	0.625"	0.750"	1.00"	Blower RPM	Motor HP	Sones @ 0.125" SP	Complete with Drive Package** 1-Ph, 115/230V Motor Item No.	Complete with Drive Package** 3-Ph, 230/460V Motor Item No.	Without Drive Package** Item No.	Without Cabinet or Drive Package** Item No.
10 ¼ in	1,385	1,225	825	—	—	—	—	690	¼ hp	5.2	7H715	7H737	3F532	41N516
	1,575	1,455	1,250	—	—	—	—	771	⅓ hp	6.7	7H716	7H738		
	1,820	1,725	1,600	1,390	900	—	—	878	½ hp	8.7	7H717	7H739		
	2,115	2,035	1,945	1,835	1,650	1,400	—	1,008	¾ hp	11.7	7H718	7H740		
11 9/16 in	1,725	1,540	975	—	—	—	—	625	¼ hp	7.1	7H719	7H741	3F533	41N522
	1,885	1,715	1,350	—	—	—	—	667	⅓ hp	8.4	7H720	7H742		
	2,190	2,045	1,855	1,495	—	—	—	759	½ hp	11.2	7H721	7H743		
	2,515	2,400	2,260	2,080	1,750	850	—	863	¾ hp	14.7	7H722	7H744		
15 ½ in	3,725	3,465	2,160	—	—	—	—	451	¾ hp	9	7H728	7H750	3F535	41N525
	4,425	4,240	3,960	2,700	—	—	—	528	1 hp	12.3	7H729	7H751		
	4,945	4,790	4,600	4,270	2,865	980	—	586	1 ½ hp	15.2	7H730	7H752		
	—	—	4,880	4,625	4,080	1,660	—	614	1 ½ hp	—	7H731	7H753		
	5,470	5,335	5,175	4,970	4,620	3,250	—	645	2 hp	18.1	—	7H754		
	—	—	—	5,335	5,080	4,600	1,160	679	2 hp	—	—	7H755		
18 ½ in	5,500	4,780	3,320	—	—	—	—	384	1 hp	9.6	7H732	7H756	3F536	41N526
	6,515	5,960	5,220	3,820	—	—	—	443	1 ½ hp	13.8	7H733	7H757		
	7,320	6,850	6,285	5,530	4,135	—	—	491	2 hp	17.4	—	7H758		
	8,515	8,120	7,685	7,185	6,525	5,535	—	563	3 hp	23	—	7H759		
	10,000	9,680	9,325	8,950	8,520	8,025	6,550	654	5 hp	30	—	7H760		

*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Single-Inlet Forward Curve Direct-Drive Blowers

Dayton

Blower With Motor

- Housing can be rotated to 8 discharge positions in each rotation
- Welded steel construction
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Provide high-volume ventilation when duct systems are required. Motor packed separately when ordered with blower.

Note: Review OSHA codes. OSHA complying guards are required where fan blades are exposed and within reach of personnel.

High-Volume—Great for medium pressures; combine characteristics of high-volume and high-pressure blowers. 16-ga. steel housing with welded, airtight joints. Heavy steel wheel. All motors are rigid mounted.

Wheel Dia. (in.)	Wheel Width (in.)	Wheel Bore (in.)	Inlet Dia. (in.)	Outlet Height (in.)	Outlet Width (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
6 5⁄16 in	2 ½ in	½ in	6 in	7 ⅜ in	4 ¼ in	15 in	14 in	11 in	**2RXL4**	**2RXP6**	**45J453**
7 ¾ in	3 ⅞ in	½ in	8 in	8 ¼ in	5 ⅜ in	16 in	15 in	14 in	**2RXL5**	**2RXP7**	**45J454**
9 in	4 ½ in	½ in	9 in	10 ¾ in	6 ½ in	18 in	16 in	15 in	**2RXL6**	**2RXP8**	**45J455**
10 ⅝ in	5 ¼ in	⅝ in	10 in	11 ¾ in	8 in	21 in	16 in	17 in	**2RXL7**	**2RXP9**	**2ZB39**
10 ⅝ in	5 ¼ in	⅝ in	10 in	11 ¾ in	8 in	21 in	16 in	17 in	**2RXL7**	**2RXP9**	**45J457**
High Volume											
9 in	4 ½ in	⅞ in	9 in	10 ¾ in	6 ½ in	18 in	16 in	15 in	**2RXL6**	**2RXP8**	**45J458**
10 ⅝ in	4 in	⅞ in	10 in	11 ¾ in	5 ⅞ in	21 in	16 in	17 in	**2RXL7**	—	**45J459**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.000"	0.125"	0.250"	0.500"	0.750"	1.250"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	Totally Enclosed Fan-Cooled, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
6 5⁄16 in	595 cfm	560 cfm	515 cfm	420 cfm	300 cfm	—	1,725 RPM	¼ hp	53 dBA	**7C037** #	**7AP74**	**7AP79**	—	**1C791**
7 ¾ in	985 cfm	920 cfm	870 cfm	765 cfm	655 cfm	360 cfm	1,725 RPM	⅓ hp	57 dBA	**7C038** #	**7AP75**	**7AP80**	**7AP83**	**1C792**
9 in	1,005 cfm	968 cfm	930 cfm	850 cfm	773 cfm	480 cfm	1,725 RPM	⅓ hp	58 dBA	**7C039** #	**7AP76**	**7AP81**	**7AP84**	**2C889**
9 in	1,180 cfm	1,160 cfm	1,125 cfm	1,035 cfm	855 cfm	—	1,140 RPM	⅓ hp	56 dBA	—	**7AP77**	**7AP82**	**7AP85**	**2C938** *
10 ⅝ in	1,510 cfm	1,450 cfm	1,400 cfm	1,290 cfm	1,200 cfm	1,000 cfm	1,725 RPM	¾ hp	63 dBA	**7C453**	**7AP78**	**7C454**	**7AP86**	**2C890**
10 ⅝ in	2,060 cfm	1,970 cfm	1,870 cfm	1,710 cfm	1,500 cfm	1,020 cfm	1,140 RPM	¾ hp	61 dBA	**7C648**	—	**7C649**	**7AP87**	**2C939** *

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 1.500"	1.750"	2.000"	2.250"	2.500"	2.750"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	Open Dripproof, 230/460V, 3-PHASE Item No.	Totally Enclosed Fan-Cooled, 208-230/460V, 3-PHASE Item No.	BLOWER WITHOUT MOTOR Item No.
High Volume														
9 in	1,390 cfm	1,250 cfm	1,050 cfm	—	—	—	1,725 RPM	1 hp	58 dBA	**7C408**	**7AP88**	**7C567**	**7AP90**	**4C118**
10 ⅝ in	1,848 cfm	1,735 cfm	1,610 cfm	1,457 cfm	1,288 cfm	1,047 cfm	1,725 RPM	1 ½ hp	63 dBA	**7C409**	**7AP89**	**7C568**	**7AP91**	**4C119**

*# 115V only. † Values shown are estimated sound pressure levels. * Blower 2C938 and 2C939 supplied with 3CC03 rubber motor mount for extra-quiet operation.*

Single-Inlet Forward Curve Belt-Drive Blowers

Dayton

Blower Without Drive Package

- Heavy-gauge steel construction
- Continuous duty
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Adjustable top motor mount moves from top to rear mounting. Easily altered to required discharge position by drilling new motor mounting holes, rotating blower housing on base, and bolting in position. Motor is resilient-mounted and automatic reset thermal-protected.

High volume at low velocity. Shipped in bottom horizontal discharge position. Drive package components packed separately.

Note: Review OSHA codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

Wheel Dia. (in.)	Wheel Width (in.)	Shaft Dia. (in.)	Inlet Dia. (in.)	Discharge Height (in.)	Discharge Width (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	SHAFT & BEARING KIT Item No.
9 in	4 ½ in	⅝ in	9 in	10 ¾ in	6 ½ in	17 in	11 in	15 in	**2RXL6**	**2RXP8**	**45J470**
10 ⅝ in	5 ¼ in	¾ in	10 in	11 ¾ in	8 in	19 in	12 in	18 in	**2RXL7**	**2RXP9**	**45J471**
12 ½ in	6 ½ in	¾ in	13 ¼ in	13 ¼ in	9 ⅝ in	27 in	15 in	22 in	**2RXL9**	**2RXR1**	**45J469**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.125"	0.250"	0.375"	0.500"	0.750"	1.000"	Blower RPM	Motor HP	dBA @ 5 Feet †	Bearing Type	COMPLETE WITH DRIVE PACKAGE** Open Dripproof, 115/230V Item No.	Totally Enclosed Fan-Cooled, 115/230V Item No.	WITHOUT DRIVE PACKAGE** Item No.
9 in	1100	1000	890	800	475 cfm	—	1,000 RPM	¼ hp	46 dBA	Ball	**7C651**	**7AP92**	**2C887**
10 ⅝ in	1690	1600	1480	1370	1,140 cfm	—	1,000 RPM	½ hp	51 dBA	Ball	**7C652**	**7AP93**	**2C888**
12 ½ in	#	#	#	2100	1,980 cfm	1,460 cfm	875 RPM	½ hp	56 dBA	Ball	**7C653**	**7AP94**	**2C800**

 # WARNING: Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels.
*** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Single-Inlet Forward Curve Quiet Design Belt-Drive Blowers

- Sturdy arc-welded housing and frame
- Gray baked-on epoxy finish
- Max. inlet air temp.: 250°F
- Max. ambient temp.: 104°F

Extra-quiet, efficient blowers provide high volume performance. Adjustable to 8 standard positions. Ball bearings. Dynamically balanced, clockwise rotating steel wheel. V-belt drive with weatherproof drive cover included. Drive package components packed separately.

Models with a wheel diameter of 10½", 13½" and 16¼" are available on Grainger.com®.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

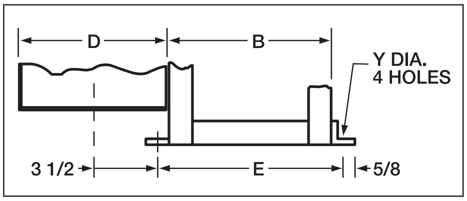
Wheel Dia. (in.)	Shaft Dia. (in.)	Inlet Dia. (in.)	Discharge (in.) H	Discharge (in.) W	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	SHAFT & BEARING KIT Item No.
7 ¾ in	¾ in	8 in	8 ¼ in	5 ⅜ in	18 in	13 ⅝ in	24 15⁄16 in	**2RXL5**	**2RXP7**	**45J491**
9 in	¾ in	9 in	10 ¾ in	6 ½ in	18 ¾ in	14 ⅞ in	26 1⁄16 in	**2RXL6**	**2RXP8**	**45J492**
12 ¼ in	1 in	13 ¼ in	13 ¼ in	9 ⅝ in	27 in	30 in	22 in	**2RXL9**	**2RXR1**	**45J466**
15 in	1 3⁄16 in	16 ⅛ in	16 ¼ in	11 ¾ in	30 in	34 in	27 in	**2RXN1**	**2RXR2**	**45J467**
18 ¼ in	1 3⁄16 in	19 ⅝ in	19 ⅝ in	14 ¼ in	37 in	40 in	32 in	**2RXN2**	**2RXR3**	**45J468**
20 in	1 3⁄16 in	21 ½ in	21 ½ in	15 ⅞ in	40 ¼ in	34 ½ in	42 15⁄16 in	**2RXN6**	**2RXR6**	**45J493**
22 ¼ in	1 3⁄16 in	23 ⅞ in	24 in	17 ⅜ in	44 in	44 in	38 in	**2RXN3**	**2RXR4**	**45J472**
24 ½ in	1 7⁄16 in	26 ⅜ in	26 ¼ in	19 ¼ in	48 in	46 in	43 in	**2RXN4**	**2RXR5**	**45J473**

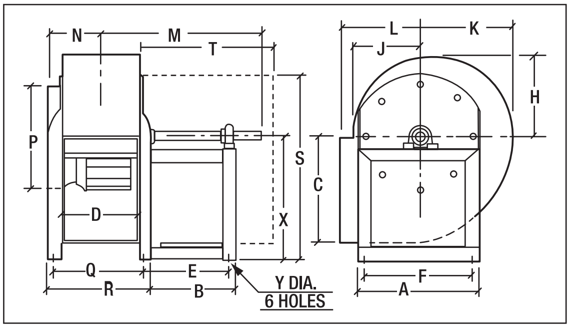
Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.250"	0.500"	1.000"	1.250"	1.500"	2.000"	2.500"	3.000"	Blower RPM	Motor HP	dBA @ 5 Feet*	COMPLETE WITH DRIVE PACKAGE** 115/230V, 60 Hz, Open Dripproof Item No.	3-Phase, 230/460V, 60 Hz, Open Dripproof Item No.	115/230V, 60 Hz, Totally Enclosed Item No.	3-Phase, 230/460V, 60 Hz, Totally Enclosed Item No.	WITHOUT DRIVE PACKAGE** Item No.
7 ¾ in	750	637	—	—	—	—	—	—	1,359	¼ hp	53	**7AG82**	**7AG83**	**7HP13**	**7HP14**	**3AXE8**
	862	763	476	—	—	—	—	—	1,518	⅓ hp	55	**7AG84**	**7AG85**	**7HP15**	**7HP16**	
	1006	918	727	582	—	—	—	—	1,725	½ hp	58	**7AG86**	**7AG87**	**7HP17**	**7HP18**	
	1147	1068	909	816	696	—	—	—	1,932	¾ hp	61	**7AG88**	**7AG89**	**7HP19**	**7HP20**	
	#	1190	1,045	969	883	562	—	—	2,103	1 hp	62	**7HP21**	**7HP23**	**7HP22**	**7HP24**	
9 in	1112	954	—	—	—	—	—	—	1,116	⅓ hp	55	**7AG90**	**7AG91**	**7HP25**	**7HP26**	**3AXE9**
	1177	1025	—	—	—	—	—	—	1,166	½ hp	58	**7AG92**	**7AG93**	**7HP27**	**7HP28**	
	1382	1244	955	651	—	—	—	—	1,327	¾ hp	61	**7AG94**	**7AG95**	**7HP29**	**7HP30**	
	1540	1408	1,160	1,006	689	—	—	—	1,451	1 hp	63	**7AG96**	**7AG97**	**7HP31**	**7HP32**	
	#	#	#	#	1,559	1,338	842	—	1,870	1 ½ hp	64	**7HP33**	**7HP35**	**7HP34**	**7HP36**	
12 ¼ in	1735	1490	—	—	—	—	—	—	690	⅓ hp	51	**7C488**	**7C491**	**7HP37**	**7HP38**	**2C797**
	2045	1770	—	—	—	—	—	—	783	½ hp	51	**7C489**	**7C492**	**7HP39**	**7HP40**	
	#	2260	1,700	—	—	—	—	—	920	¾ hp	57	**7C490**	**7C493**	**7HP41**	**7HP42**	
	#	#	2,190	1,900	1,375	—	—	—	1,029	1 hp	62	**7C888**	**7C889**	**7HP43**	**7HP44**	
	#	#	#	#	2,250	—	—	—	1,172	1 ½ hp	67	**7HP45**	**7HP46**	**7HP47**	**7HP48**	
	#	#	#	#	#	#	2,440	—	1,372	2 hp	68	**7HP49**	**7HP50**	**7HP51**	**7HP52**	
	#	#	#	#	#	#	2,660	2,060	1,457	3 hp	69	**7HP53**	**7HP54**	**7HP55**	**7HP56**	
15 in	2645	2200	—	—	—	—	—	—	557	½ hp	59	**7C494**	**7C497**	**7HP57**	**7HP58**	**2C798**
	#	2830	—	—	—	—	—	—	645	¾ hp	62	**7C495**	**7C505**	**7HP59**	**7HP60**	
	#	3460	2,720	1,870	—	—	—	—	743	1 hp	67	**7C496**	**7C506**	**7HP61**	**7HP62**	
	#	#	3,300	2,875	2,050	—	—	—	814	1 ½ hp	69	**7C890**	**7C891**	**7HP63**	**7HP64**	
	#	#	#	#	3,300	2,410	—	—	943	2 hp	73	**7HP65**	**7HP67**	**7HP66**	**7HP68**	
	#	#	#	#	4,050	3,584	2,560	—	1,054	3 hp	75	**7HP69**	**7HP70**	—	**7HP72**	
	#	#	#	#	#	#	4,525	4,100	1,256	5 hp	77	**7HP73** †	**7HP74** †	**7HP75**	**7HP76**	
18 ¼ in	3780	3255	—	—	—	—	—	—	477	¾ hp	56	**7C507**	**7C510**	**7HP77**	**7HP78**	**2C799**
	#	3980	2,880	—	—	—	—	—	542	1 hp	62	**7C892**	**7C894**	**7HP79**	**7HP80**	
	#	4665	3,690	—	—	—	—	—	608	1 ½ hp	66	**7C508**	**7C511**	**7HP81**	**7HP82**	
	#	#	4,890	4,410	3,635	—	—	—	699	2 hp	71	**7C509**	**7C512**	**7HP83**	**7HP84**	
	#	#	5,420	5,050	4,560	—	—	—	745	3 hp	72	**7C893**	**7C895**	**7HP85**	**7HP86**	
	#	#	#	#	6,324	5,525	3,798	—	908	5 hp	74	**7HP87** †	**7HP88**	**7HP89**	**7HP90**	
20 in	4482	3546	—	—	—	—	—	—	396	1 hp	64	**7AG98**	**7AG99**	**7HP91**	**7HP92**	**3AXF1**
	5508	4796	—	—	—	—	—	—	464	1 ½ hp	67	**7AH00**	**7AH01**	**7HP93**	**7HP94**	
	6039	5390	—	—	—	—	—	—	500	2 hp	69	**7AH02**	**7AH03**	**7HP95**	**7HP96**	
	6911	6334	5,009	—	—	—	—	—	560	3 hp	71	**7AH04**	**7AH05**	**7HP97**	**7HP98**	
	8254	7755	6,743	6,158	5,405	—	—	—	654	5 hp	74	**7AH06** †	**7AH07**	**7HP99** †	**7HR00**	
	#	#	#	#	#	#	7,560	5,558	871	7 ½ hp	78	—	**7HR02**	**7HR01** †	**7HR03**	
22 ¼ in	5900	4410	—	—	—	—	—	—	356	1 hp	61	**7C708**	**7C711**	**7HR04**	**7HR07**	**3C009**
	#	6030	—	—	—	—	—	—	412	1 ½ hp	62	**7C896**	**7C898**	—	**7HR08**	
	#	7235	5,290	—	—	—	—	—	458	2 hp	64	**7C709**	**7C712**	**7HR05**	**7HR09**	
	#	#	7,720	6,660	4,800	—	—	—	553	3 hp	72	**7C710**	**7C713**	**7HR06**	**7K295**	
	#	#	9,050	8,100	7,350	—	—	—	602	5 hp	74	—	**7C899**	—	**7K296**	
	#	#	#	#	#	#	#	7,350	803	7 ½ hp	77	—	**7K297**	—	**7K298**	
24 ½ in	7820	6623	—	—	—	—	—	—	349	1 ½ hp	56	**7C714**	**7C717**	**7K299**	**7K301**	**3C010**
	#	8210	4,485	—	—	—	—	—	398	2 hp	58	**7C900**	**7C901**	**7K308**	**7K309**	
	#	#	8,280	6,555	—	—	—	—	462	3 hp	64	**7C715**	**7C718**	**7K300**	**7K302**	
	#	#	11,050	9,800	9,300	—	—	—	544	5 hp	68	**7K303** †	**7C719**	**7K304** †	**7K307**	
	#	#	12,500	11,730	11,000	—	—	—	590	7 ½ hp	71	**7K305** †	**7C902**	**7K306** †	**7K310**	
	#	#	#	#	#	11,170	7,608	—	653	10 hp	73	—	**7K311**	—	**7K312**	

 # WARNING: Motor overload will result if blower is operated at static pressure below performance shown. * Values shown are estimated sound pressure levels.
***** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. † 230 volt only.***

¾" and 1" Shafts and Bearings for Belt-Drive Blowers

Description	For Use With	Item No.
Blower Shaft, ¾ in Dia. x 20 in L, Max. HP ¾ hp, Max. RPM 1,000 RPM	Dayton Blowers 5NRC7 to 5NRC9, 5NRD0 to 5NRD7, 5UDU4, 5UDU5, 5VZU1, 4TL96 to 4TL99, 4TM01 and 4TM07 without Keyways and Standard Belt Drive Blowers	**5VZU2**
Blower Shaft, 1 in Dia. x 25 in L, Max. HP 1 hp, Max. RPM 1,000 RPM	Dayton Blowers 5ZCP0, 5ZCP1, 5ZCP2, 5ZCP6, 5ZCP7, 5ZCP8, 5NRC7, 5NRC8, 5NRC9, 5NRD0, 5UDU4, 5UDU5, 5VZU1, 5NRD1 Through 5NRD7 Without Keyways and Standard Belt Drive Blowers	**5VZU3**
Bearing Kit, Self Aligning, Max. HP ¾ hp, Max. RPM 1,000 RPM, Includes Locking Collar and Rubber Isolator, Thrust washer, Pkg. Qty. 2	Belt Drive Furnace Blowers	**5VZU4**
Bearing Kit, Self Aligning, Max. HP 1 hp, Max. RPM 1,000 RPM, Includes Locking Collar and Rubber Isolator, Thrust washer, Pkg. Qty. 2	Belt Drive Furnace Blowers	**5VZU5**





Backward Incline Belt-Drive Blowers

Dayton

AMCA Certified Ratings — Air Performance

- Nonoverloading, dynamically balanced wheels
- Sizes 10½" to 24½" feature flat blade wheel; sizes 27" to 36½" have airfoil wheel
- Both wheel styles provide full Class 1 performance range
- Welded steel housing
- Gray baked-on epoxy finish
- Max. inlet air temp.: 250°F
- Max. ambient temp.: 104°F
- Pillow block ball bearings

Motor cannot be overloaded at any given rpm and horsepower regardless of static pressure applied to the system. Clockwise rotation viewed from drive side. Blowers are shipped in bottom horizontal discharge position and can be changed in the field to 7 additional standard discharge positions. Sizes 10½" to 20" have variable-pitch sheaves; larger sizes have fixed sheave drive. Include weatherproof drive cover. Drive packages are packed separately.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Wheel Dia. (in.)	Dimensions (in.) A	B	C	D	E	F	H	J	K	L	M	N	P	Q	R	S	T	X	Y	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT SHAFT & BEARING KIT Item No.	REPLACEMENT BLOWER WHEEL Item No.
10½"	12⅞"	13"	11¾"	8"	14¼"	10¾"	7⅞"	6¾"	9⅛"	8 1/16"	19⅞"	6"	12⅞"	‡	‡	20½"	17"	14"	7/16"	2RXN5	2RXP9	45J486	—
12¼"	16⅜"	13½"	13¼"	9⅝"	13½"	14¾"	10⅛"	8½"	11½"	10½"	23⅞"	6⅜"	13¼"	11¼"	12¾"	25¼"	20"	17"	½"	2RXL9	2RXR1	45J490	—
15"	19¼"	15½"	16¼"	11¾"	15½"	17⅝"	12⅜"	10⅜"	14⅛"	12⅜"	26⅞"	7½"	16⅛"	13⅜"	14⅞"	27⅝"	22"	17⅞"	½"	2RXN1	2RXR2	45J476	—
18¼"	23⅛"	17"	19⅝"	14¼"	17½"	21½"	15"	12⅝"	17⅛"	14⅝"	30⅝"	9⅛"	19⅝"	15¾"	18¼"	33⅜"	25"	21⅞"	½"	2RXN2	2RXR3	45J477	—
20"	25"	17"	21½"	15⅞"	17"	23⅜"	16½"	13¾"	18¾"	15¾"	31½"	10"	21½"	17⅞"	20⅛"	36¼"	25"	23¾"	½"	2RXN6	2RXR6	45J474	2ZB40
24½"	30¼"	16½"	26¼"	19¼"	16¾"	23⅝"	20⅛"	16⅞"	23"	19⅞"	33⅝"	11¾"	26⅜"	21¼"	24½"	42⅞"	26"	27¾"	½"	2RXN4	2RXR5	45J475	—
27"	33"	16½"	29"	21¼"	16½"	26¼"	22⅛"	18½"	25¼"	21½"	34⅝"	12⅝"	29"	23¾"	26½"	47"	26"	30½"	½"	2RXN7	2RXR7	45J481	—
30"	36¼"	16½"	32¼"	23⅜"	16½"	29½"	24⅝"	20½"	28⅛"	23⅝"	36"	13¾"	32¼"	26"	28¾"	51⅞"	27"	33¾"	½"	2RXN8	2RXR8	45J482	—
36½"	43⅛"	21⅜"	39¼"	28½"	21⅝"	36⅞"	30"	24⅞"	34⅛"	28"	43¼"	16¼"	39"	31"	33¾"	63¾"	30⅜"	42⅛"	⅞"	2RXN9	2RXR9	45J483	—

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.500"	1.000"	2.000"	3.000"	4.000"	5.000"	Blower RPM	Motor HP	Max. BHP	dBA @ 5 ft.	COMPLETE WITH DRIVE PACKAGE** 115/230V 60 Hz, 1-Phase Open Dripproof Item No.	230/460V 60 Hz, 3-Phase Open Dripproof Item No.	115/230V 60 Hz, 1-Phase Totally Enclosed Item No.	230/460V 60 Hz, 3-Phase Totally Enclosed Item No.	WITHOUT DRIVE PACKAGE** Item No.
10 ½ in	1,140	948	—	—	—	—	1865	1/4 hp	0.25 hp	62	7H123	7H150	7K332	7K333	3C716 ‡
	1,282	1,126	—	—	—	—	2150	1/3 hp	0.33 hp	64	7H124	7H151	7K334	7K335	
	1,506	1,383	1,005	—	—	—	2350	1/2 hp	0.5 hp	67	7H125	7H152	7K337	7K336	
	1,750	1,649	1,389	—	—	—	2685	3/4 hp	0.75 hp	69	7H126	7H153	7K339	7K338	
	1,944	1,856	1,642	1,333	—	—	2955	1 hp	1.0 hp	72	7H127	7H154	7K341	7K340	
	2,250	2,175	2,006	1,795	1,513	—	3385	1.5 hp	1.5 hp	75	7H128	7H155	7K343	7K342	
	—	—	—	—	1,670	1,272	3515	2 hp	1.99 hp	75	—	7K344	7K347	7K345	
	—	—	—	—	1,670	1,272	3515	2 hp	1.99 hp	75	7K346	—	—	—	
12 ¼ in	1,628	1,313	—	—	—	—	1485	1/3 hp	0.33 hp	61	7H129	7H156	7K349	7K348	4C333
	1,932	1,693	—	—	—	—	1700	1/2 hp	0.49 hp	64	7H130	7H157	7K350	7K351	
	2,274	2,081	1,503	—	—	—	1950	3/4 hp	0.75 hp	67	7H131	7H158	7K353	7K352	
	2,536	2,367	1,944	—	—	—	2145	1 hp	0.99 hp	68	7H132	7H159	7K355	7K354	
	2,947	2,803	2,476	2,020	—	—	2455	1.5 hp	1.49 hp	72	7H133	7H160	7K356	7K357	
	3,275	3,145	2,864	2,525	1,950	—	2705	2 hp	1.99 hp	73	7H134	7H161	7K358	7K359	
	—	—	—	—	—	1,888	2965	3 hp	2.99 hp	75	7K360	7K361	—	7K362	
15 in	2,938	2,567	—	—	—	—	1430	3/4 hp	0.75 hp	66	7H135	7H162	7K363	7K364	3C073
	3,302	2,980	—	—	—	—	1575	1 hp	1.0 hp	68	7H136	7H163	7K365	7K366	
	3,854	3,583	2,939	—	—	—	1800	1.5 hp	1.5 hp	71	7H137	7H164	7K367	7K368	
	4,289	4,048	3,506	2,720	—	—	1980	2 hp	2.0 hp	73	7H138	7H165	7K369	7K370	
	4,969	4,762	4,317	3,799	3,057	—	2265	3 hp	2.99 hp	76	—	7H166	—	7K371	
	—	—	—	—	3,840	2,880	2450	5 hp	5.0 hp	79	—	7K372	—	7K373	
18 ¼ in	4,131	3,595	—	—	—	—	1160	1 hp	1.0 hp	65	7H140	7H167	7K374	7K375	3C074
	4,846	4,408	—	—	—	—	1325	1.5 hp	1.5 hp	68	7H141	7H168	7K376	7K377	
	5,418	5,035	4,092	—	—	—	1460	2 hp	2.0 hp	69	7H142	7H169	7K378	7K379	
	6,293	5,972	5,235	4,224	—	—	1670	3 hp	3.0 hp	73	—	7H170	—	7K380	
	7,565	7,305	6,731	6,075	5,317	—	1980	5 hp	5.0 hp	76	—	7H171	—	7K381	
20 in	5,306	4,727	—	—	—	—	1130	1.5 hp	1.49 hp	68	7H145	7H172	7K382	7K383	3C048
	5,917	5,421	3,933	—	—	—	1240	2 hp	1.97 hp	69	7H146	7H173	7K384	7K385	
	6,923	6,520	5,495	3,600	—	—	1425	3 hp	2.99 hp	72	—	7H174	—	7K386	
	8,338	8,017	7,272	6,314	—	—	1690	5 hp	4.99 hp	75	—	7H175	—	7K387	
	9,262	8,977	8,339	7,574	—	—	1865	7.5 hp	6.64 hp	78	—	7H176	—	7K388	
24 ½ in	7,581	6,705	—	—	—	—	870	2 hp	1.97 hp	67	7H177	7H178	7K389	7K390	3C049
	8,871	8,175	5,990	—	—	—	995	3 hp	2.96 hp	70	—	7H179	—	7K391	
	10,735	10,190	8,844	6,408	—	—	1180	5 hp	4.92 hp	74	—	7H180	—	7K392	
	12,419	11,961	10,910	9,535	7,262	—	1350	7.5 hp	7.37 hp	76	—	7H181	—	7K393	
	13,745	13,336	12,430	11,340	—	—	1485	10 hp	9.82 hp	80	—	7H182	—	7K394	
27 in	7,681	6,864	—	—	—	—	855	2 hp	1.99 hp	67	—	7H183	—	7K395	3C109
	9,017	8,327	6,696	—	—	—	980	3 hp	3.0 hp	70	—	7H184	—	7K396	
	10,903	10,329	9,106	7,575	—	—	1160	5 hp	4.98 hp	74	—	7H185	—	7K397	
	12,606	12,106	11,076	9,935	8,514	—	1325	7.5 hp	7.42 hp	77	—	7H186	—	7K398	
	14,089	13,639	12,725	11,757	10,670	—	1470	10 hp	10.0 hp	79	—	7H187	—	7K399	
30 in	10,228	9,298	6,869	—	—	—	820	3 hp	2.96 hp	69	—	7H188	—	7K400	3C110
	12,474	11,712	10,039	7,608	—	—	975	5 hp	5.0 hp	73	—	7H189	—	7K401	
	14,468	13,807	12,425	10,820	8,272	—	1115	7.5 hp	7.49 hp	76	—	7H190	—	7K402	
	16,020	15,419	14,188	12,843	11,374	8,789	1225	10 hp	9.93 hp	78	—	7H191	—	7K403	
36 ½ in	15,826	14,511	11,278	—	—	—	700	5 hp	4.94 hp	73	—	7H192	—	7K404	3C111
	18,430	17,299	14,816	11,186	—	—	800	7.5 hp	7.37 hp	76	—	7H193	—	7K405	
	20,614	19,599	17,457	14,881	—	—	885	10 hp	9.97 hp	78	—	7H194	—	7K406	
	23,794	22,907	21,091	19,110	16,852	—	1010	15 hp	14.84 hp	81	—	7H195	—	7K407	
	—	—	—	—	—	16,852	1083	20 hp	19.84 hp	81	—	7K408	—	7K409	

** Performance shown is for installation Type B: free inlet, ducted outlet. Power ratings (BHP) do not include drive losses. Performance ratings do not include the effects of appurtenances (accessories). ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed. ‡ 3C716 has no inlet side support and has only 4 mounting holes.*

High-Pressure Radial Blade Belt-Drive Industrial Blowers

Dayton®

- Housing can be rotated to 8 discharge positions in each rotation
- 12¼" blower handles stringy material, grain, sawdust, granular material, and particle-laden air of nonexplosive gases
- 15⅝" to 36½" blowers handle grain, sawdust, granular material, and particle-laden air of nonexplosive gases
- Max. inlet air temp.: 250°F; increases to 450° with optional heat slinger
- Max. ambient temp.: 104°F

Units are built for CW rotation and bottom horizontal discharge, but can easily be converted to CCW rotation by removing and remounting housing opposite of standard. With weatherproof drive covers. Heavy-gauge, continuous arc welded steel construction with gray baked-on epoxy finish. Blowers have 6 mounting points.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

WARNING: Ductwork required to prevent motor overload.

Optional Heat Slinger—Split-type aluminum slinger mounts on blower shaft between housing and bearing. Cools bearing, allowing blower to handle inlet air temps. up to 450°F. When used with heat shield between motor and housing, blower can handle inlet temperatures up to 500°F.

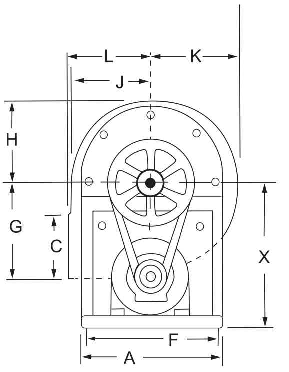
3C108

4C791

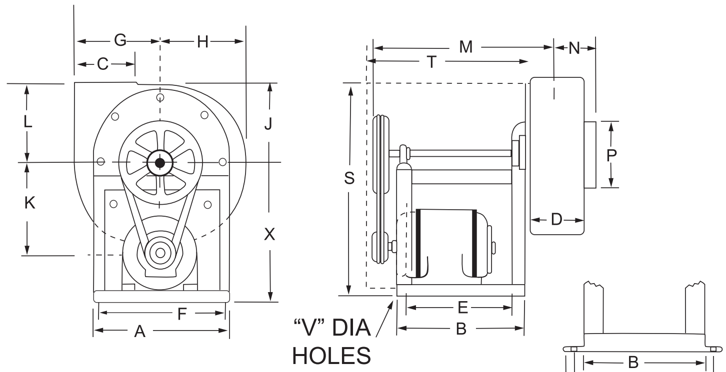
Wheel Dia. (in.)	Shaft Dia. (in.)	Housing H (in.)	Housing W (in.)	Housing L (in.)	Discharge H (in.)	Discharge W (in.)	Inlet Dia. (in.)	REPLACEMENT WHEEL Item No.	REPLACEMENT SHAFT & BEARING KIT Item No.	OPTIONAL HEAT SLINGER Item No.	RECOMMENDED FLOOR-MOUNT VIBRATION ISOLATORS, Mason Industries, 6 REQUIRED Item No.
12 ¼ in	1 3/16 in	19 3/16 in	6 in	19 ¼ in	7 in	6 in	7 ¼ in	**2ZB43**	**45J484**	**4C784**	**4C875**
15 ⅝ in	1 3/16 in	24 ⅜ in	7 ½ in	23 ⅞ in	9 in	7 ½ in	9 ¼ in	**2ZB41**	**45J478**	**4C784**	**4C955**
19 ⅛ in	1 7/16 in	29 ¾ in	9 1/16 in	28 ⅝ in	11 in	9 1/16 in	11 ¼ in	**2ZB45**	**45J479**	**4C790**	**4C876**
22 ⅝ in	1 11/16 in	35 ⅛ in	10 ½ in	33 7/16 in	13 in	10 ½ in	13 ¼ in	**2ZB42**	**45J480**	**4C791**	**4C876**
26 ⅛ in	1 15/16 in	40 ⅝ in	12 ⅛ in	39 ⅜ in	15 in	12 ⅛ in	15 ¼ in	—	**45J485**	**4C792**	**4C961**
29 ⅝ in	1 15/16 in	46 ⅛ in	13 ¾ in	44 7/16 in	17 in	13 ¾ in	17 ¼ in	—	**45J494**	**4C792**	**4C988**
33 in	2 3/16 in	51 ¼ in	15 ⅜ in	49 1/16 in	19 in	15 ⅜ in	19 ¼ in	—	**45J495**	**4DKK9**	**4C988**
36 ½ in	2 7/16 in	56 ⅞ in	17 in	54 in	21 in	17 in	21 ¼ in	—	**45J496**	**4DKL1**	**4C988**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	Blower RPM	Motor HP	dBA @ 5 Ft. †	Volts 60 Hz	Phase	COMPLETE WITH DRIVE PACKAGE** Dripproof Motor Item No.	COMPLETE WITH DRIVE PACKAGE** Totally Enclosed Motor Item No.	WITHOUT DRIVE PACKAGE** Item No.
12 ¼ in	1455	1290	1090	840	515	—	—	—	—	—	3,160	3 hp	78	230/460	3	**7C240**	**7C279**	**3C539**
	#	#	1340	1145	915	625	—	—	—	—	3,390	3 hp	79	230/460	3	**7C241**	**7C280**	
	#	1740	1610	1455	1290	1080	840	515	—	—	3,685	5 hp	82	230/460	3	**7C242**	**7C281**	
	#	1795	1660	1525	1360	1165	955	675	—	—	3,750	5 hp	82	230/460	3	**7C243**	**7C282**	
	#	#	1780	1650	1505	1330	1135	910	620	—	3,870	5 hp	84	230/460	3	**7C244**	**7C313**	
15 ⅝ in	#	1725	1430	960	—	—	—	—	—	—	2,275	3 hp	78	230/460	3	**7C245**	**7C314**	**3C106**
	2290	2050	1810	1540	1120	—	—	—	—	—	2,460	5 hp	79	230/460	3	**7C246**	**7C319**	
	#	2330	2115	1890	1630	1250	—	—	—	—	2,625	5 hp	81	230/460	3	**7C247**	**7C321**	
	2880	2665	2450	2250	2040	1795	1485	—	—	—	2,815	7.5 hp	83	230/460	3	**7C248**	**7C322**	
	#	2850	2630	2425	2230	2015	1765	1420	—	—	2,920	7.5 hp	84	230/460	3	**7C249**	**7C325**	
	#	#	2845	2645	2460	2260	2060	1810	1470	—	3,045	10 hp	87	230/460	3	**7C250**	—	
	#	#	#	2900	2720	2540	2360	2160	1930	1615	3,180	10 hp	89	230/460	3	**7C251**	—	
	#	#	#	#	#	2795	2620	2435	2245	—	3,335	10 hp	90	230/460	3	**7C252**	—	
19 ⅛ in	3345	2985	2620	2190	1490	—	—	—	—	—	1,990	7.5 hp	81	230/460	3	**7C253**	**7C329**	**3C107**
	#	3430	3115	2765	2360	1735	—	—	—	—	2,125	7.5 hp	82	230/460	3	**7C257**	**7C331**	
	4235	3900	3575	3260	2940	2560	2020	—	—	—	2,270	10 hp	84	230/460	3	**7C260**	**7C333**	
	#	#	3840	3545	3245	2910	2515	1920	—	—	2,350	10 hp	85	230/460	3	**7C261**	**7C334**	
	#	4420	4195	3900	3610	3315	3005	2605	2030	—	2,460	15 hp	89	230/460	3	**7C262**	—	
	#	#	#	4360	4075	3805	3530	3230	2875	2400	2,590	15 hp	90	230/460	3	**7C263**	—	
	#	#	#	#	4380	4190	3935	3675	3395	3047	2,715	15 hp	91	230/460	3	**7C264**	—	
22 ⅝ in	#	4730	4260	3780	3170	2190	—	—	—	—	1,780	10 hp	83	230/460	3	**7C265**	**7C342**	**3C108**
	5750	5270	4810	4360	3855	3270	2315	—	—	—	1,880	15 hp	85	230/460	3	**7C266**	—	
	#	5840	5390	4985	4550	4080	3535	2665	—	—	1,985	15 hp	87	230/460	3	**7C267**	**7C344**	
	6700	6300	5910	5500	5100	4685	4240	3705	2955	—	2,090	20 hp	91	230/460	3	**7C268**	—	
	#	#	6200	6050	5665	5270	4900	4475	3985	3260	2,185	20 hp	92	230/460	3	**7C269**	—	
	#	#	#	#	5970	5585	5215	4835	4400	3885	2,250	20 hp	93	230/460	3	**7C270**	—	
26 ⅛ in	6925	6260	5635	4955	4135	—	—	—	—	—	1,540	15 hp	85	230/460	3	**7C271**	**7C351**	**3C540**
	#	#	6435	5830	5200	4385	3145	—	—	—	1,630	15 hp	87	230/460	3	**7C272**	**7C352**	
	#	7570	6980	6350	5840	5175	4370	—	—	—	1,700	20 hp	88	230/460	3	**7C273**	**7C359**	
	#	8200	7755	7185	6660	6080	5490	4735	3600	—	1,795	25 hp	92	230/460	3	**7C274**	**7C363**	
	#	#	8110	7660	7130	6605	6065	5415	4580	—	1,860	25 hp	93	230/460	3	**7C275**	**7C364**	
	#	#	#	#	7630	7105	6600	6045	5415	4400	1,900	25 hp	94	230/460	3	**7C276**	**7C369**	
	#	#	#	#	#	7420	6890	6380	5790	5040	1,950	25 hp	95	230/460	3	**7C277**	**7C386**	
29 ⅝ in	6131	5123	—	—	—	—	—	—	—	—	1,130	15 hp	88	230/460	3	**7AH43**	—	**3AXF2**
	7492	6586	5669	4522	—	—	—	—	—	—	1,242	20 hp	90	230/460	3	**7AH47**	—	
	#	7612	6762	5894	4760	—	—	—	—	—	1,325	15 hp	89	230/460	3	**7AH45**	—	
	9114	8298	7483	6665	5802	—	—	—	—	—	1,382	25 hp	92	230/460	3	**7AH51**	—	
	#	#	8353	7582	6800	5956	—	—	—	—	1,453	20 hp	91	230/460	3	**7AH49**	—	
	10,243	9480	8719	7960	7198	6407	5365	—	—	—	1,483	30 hp	94	230/460	3	**7AH55**	—	
	#	#	#	#	8592	7883	7159	6352	—	—	1,592	25 hp	93	230/460	3	**7AH53**	—	
	12,543	11,870	11,200	10,534	9870	9205	8541	7867	7156	6242	1,696	40 hp	95	230/460	3	**7AH59**	—	
	#	#	#	#	#	#	8746	8083	7391	6574	1,712	30 hp	95	230/460	3	**7AH57**	—	
	#	#	#	#	#	#	#	9624	9007	8380	1,831	40 hp	96	230/460	3	**7AH61**	—	
33 in	8020	6798	5319	—	—	—	—	—	—	—	1,032	15 hp	89	230/460	3	**7AH63**	**7AH64**	**3AXF3**
	9834	8727	7622	6490	—	—	—	—	—	—	1,140	20 hp	91	230/460	3	**7AH67**	**7AH68**	
	10,272	9192	8115	6992	—	—	—	—	—	—	1,167	25 hp	92	230/460	3	**7AH71**	**7AH72**	
	#	#	8349	7254	5640	—	—	—	—	—	1,180	15 hp	90	230/460	3	**7AH65**	**7AH66**	
	10,935	9888	8846	7796	6594	—	—	—	—	—	1,208	30 hp	93	230/460	3	—	**7AH76**	
	#	#	9649	8647	7605	6125	—	—	—	—	1,254	20 hp	86	230/460	3	**7AH69**	**7AH70**	
	12,304	11,329	10,352	9381	8401	7320	—	—	—	—	1,295	40 hp	95	230/460	3	**7AH79**	—	
	#	11,653	10,691	9734	8775	7756	—	—	—	—	1,315	25 hp	92	230/460	3	**7AH73**	**7AH74**	
	13,711	12,803	11,891	10,981	10,074	9162	8193	6801	—	—	1,387	50 hp	94	230/460	3	**7AH83**	—	
	#	#	#	11,472	10,585	9696	8780	7717	—	—	1,416	30 hp	94	230/460	3	—	**7AH78**	
	#	#	13,955	13,121	12,286	11,455	10,625	9783	8882	7684	1,515	40 hp	96	230/460	3	**7AH81**	**7AH82**	
	#	#	#	14,049	14,049	13,269	12,491	11,716	10,938	10,136	1,621	50 hp	97	230/460	3	**7AH85**	**7AH86**	
36 ½ in	9641	7877	—	—	—	—	—	—	—	—	925	15 hp	83	230/460	3	**7AH87**	**7AH88**	**3AXF4**
	10,915	9480	7463	—	—	—	—	—	—	—	981	20 hp	85	230/460	3	**7AH91**	**7AH92**	
	#	10,179	8480	6470	—	—	—	—	—	—	1,009	15 hp	83	230/460	3	**7AH89**	**7AH90**	
	11,597	10,251	8584	6542	—	—	—	—	—	—	1,012	25 hp	85	230/460	3	**7AH95**	**7AH96**	
	#	#	11,093	9591	7569	—	—	—	—	—	1,103	20 hp	85	230/460	3	**7AH93**	**7AH94**	
	14,113	12,933	11,738	10,391	8510	—	—	—	—	—	1,130	30 hp	88	230/460	3	—	**7AJ00**	
	#	13,086	11,902	10,586	8776	—	—	—	—	—	1,137	25 hp	86	230/460	3	**7AH97**	**7AH98**	
	15,661	14,548	13,443	12,309	11,023	9270	7708	—	—	—	1,205	40 hp	89	230/460	3	**7AJ03**	—	
	#	#	#	#	12,719	11,459	9764	8231	—	—	1,270	30 hp	86	230/460	3	—	**7AJ02**	
	17,135	16,082	15,037	13,994	12,913	11,688	10,067	8435	—	—	1,278	50 hp	89	230/460	3	**7AJ07**	—	
	#	#	15,914	14,905	13,883	12,788	11,482	9749	8419	—	1,319	40 hp	89	230/460	3	**7AJ05**	—	
	17,949	16,930	15,914	14,905	13,883	12,788	11,482	9749	8419	—	1,319	50 hp	89	230/460	3	**7AJ09**	—	

*# Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*



CLOCKWISE
BOTTOM HORIZONTAL



CLOCKWISE
UPBLAST

BASE DETAIL
No. 4C129

High-Pressure Radial Blade Belt-Drive Blowers

Dayton

- 10⁹⁄₁₆" to 13½" dia., self-cleaning, radial blade wheel
- CW or CCW rotation
- Steel housing with gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Great for industrial applications where clean or light dust loading conditions exist. Blowers come complete with weatherproof drive cover and dynamically balanced, heavy-duty die-cast aluminum wheels. Self-aligning ball bearing pillow blocks. Bottom horizontal discharge, but can be changed to 7 other discharge directions.

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301.

Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

BLOWERS WITH DRIVE PACKAGE

Drive package consists of appropriate motor, belt, and sheaves to obtain performance listed in table, except 4C129 cannot be set up for downblast operation. Drive package components are packed separately.

Wheel (in.) Dia.	Wheel (in.) W	Shaft Dia. (in.)	Inlet Dia. (in.)	Discharge (in.) H	Discharge (in.) W	Dimensions (in.) H	Dimensions (in.) W	Dimensions (in.) L	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.	SHAFT & BEARING KIT Item No.
10 ⅝ in	3 in	¾ in	6 in	4 in	3 ½ in	21 in	20 in	16 in	**2RXP3**	**2RXT3**	**22FT68**	**45J487**
12 ½ in	3 in	1 in	7 in	5 in	4 in	25 in	24 in	18 in	**2RXP4**	**2RXT4**	**2ZB37**	**45J488**
13 ½ in	4 ⅜ in	1 in	8 in	7 ⅛ in	5 ¾ in	26 in	25 in	23 in	**2RXP5**	**2RXT5**	**2ZB32**	**45J489**

Wheel Dia. (in.)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	T	V	X
	Dimensions (in.)																	
10 ⅝ in	12 ⅞ in	13 in	4 in	3 ½ in	14 ¼ in	10 ¾ in	8 ⅝ in	7 ¼ in	6 ½ in	8 in	7 ⅝ in	17 ¾ in	2 ⅞ in	—	20 ⁹⁄₁₆ in	17 in	⁷⁄₁₆ in	14 in
12 ½ in	16 ⅜ in	15 in	5 in	4 in	13 ½ in	14 ¾ in	10 in	8 ¼ in	7 ½ in	9 in	9 ⅝ in	20 ½ in	3 ⅛ in	—	25 ¼ in	20 in	⁹⁄₁₆ in	17 in
13 ½ in	17 ⅝ in	15 in	7 ⅛ in	5 ¾ in	13 ½ in	16 in	11 ½ in	10 ½ in	9 ⅝ in	11 ⅜ in	11 in	21 in	4 in	—	25 ⅞ in	20 in	⁹⁄₁₆ in	17 in

Wheel Dia. (in.)	CFM & RPM @ Static Pressure Shown	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Motor HP	dBA @ 5 Feet †	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Totally Enclosed Fan Cooled 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Totally Enclosed Fan Cooled 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
10 ⅝ in	CFM	496	445	389	323	297	—	—	—	—	—	0.5 hp	80 dBA	**7D754**	—	**7AV04**	**7AV05**	**4C129**
	RPM	2500	2600	2700	2800	3000	—	—	—	—	—							
	CFM	573	532	488	442	392	333	249	—	—	—	0.75 hp	86 dBA	**7D755**	—	—	—	
	RPM	2800	2900	3000	3100	3200	3300	3400	—	—	—							
	CFM	648	614	579	527	471	427	378	317	—	—	1 hp	87 dBA	—	**7AV06**	**7AV07**	**7AV08**	
	RPM	3100	3200	3300	3350	3400	3500	3600	3700	—	—							
	CFM	709	719	692	651	607	554	510	475	438	410	1.5 hp	90 dBA	**7AV09**	**7AV10**	**7D757**	**7AV11**	
	RPM	3350	3600	3700	3750	3800	3830	3900	4000	4100	4225							
12 ½ in	CFM	757	695	629	579	521	442	386	—	—	—	1 hp	83 dBA	—	**7AV12**	**7AV13**	**7AV14**	**4C130**
	RPM	2450	2500	2550	2650	2750	2850	3000	—	—	—							
	CFM	887	836	784	728	693	626	540	468	—	—	1.5 hp	86 dBA	**7AV15**	**7AV16**	**7D759**	**7AV17**	
	RPM	2800	2850	2900	2950	3050	3100	3150	3250	—	—							
	CFM	978	933	887	844	792	738	677	639	595	572	2 hp	90 dBA	**7AV18**	**7AV19**	**7D760**	**7AV20**	
	RPM	3050	3100	3150	3200	3250	3300	3350	3450	3550	3680							
	CFM	1141	1103	1066	1030	993	955	915	873	827	776	3 hp	93 dBA	**7AV21**	—	**7AV22**	**7D765**	
	RPM	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950							
13 ½ in	CFM	1007	901	797	661	433	408	—	—	—	—	1 hp	83 dBA	—	**7AV23**	**7AV24**	**7AV25**	**4C131**
	RPM	1925	2000	2100	2200	2300	2500	—	—	—	—							
	CFM	1191	1092	980	895	726	660	590	579	—	—	1.5 hp	85 dBA	**7AV26**	**7AV27**	**7D767**	**7AV28**	
	RPM	2200	2250	2300	2400	2450	2600	2750	2920	—	—							
	CFM	1321	1236	1144	1084	987	884	785	579	—	—	2 hp	89 dBA	**7AV29**	**7AV30**	**7D768**	**7AV31**	
	RPM	2400	2450	2500	2600	2670	2750	2850	2920	—	—							
	CFM	1544	1477	1407	1347	1266	1157	1106	948	741	—	3 hp	92 dBA	**7AV32**	—	**7AV33**	**7D769**	
	RPM	2750	2800	2850	2920	2970	3000	3100	3120	3150	—							
	CFM	#	#	#	1339	1232	1157	1084	1051	919	821	3 hp	93 dBA	**7AV34**	—	**7AV35**	**7D770**	
	RPM	#	#	#	2910	2930	3000	3080	3200	3250	3340							
	CFM	1857	1774	1721	1660	1610	1550	1486	1464	1393	1316	5 hp	96 dBA	**7AV36** *	**7AV37** *	**7D771**	**7AV38**	
	RPM	3250	3250	3300	3340	3400	3450	3500	3600	3650	3700							

*# Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels. * 230V only. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Radial Blade Direct-Drive Blowers

- Housing can be rotated to 8 discharge positions in each rotation
- Welded 16-ga. steel housing and base
- Gray baked-on epoxy finish
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Self-cleaning, cast-aluminum wheel can be used to convey stringy or straw-like material and is perfectly balanced and aligned. Units are built for CW rotation and bottom horizontal discharge, but can easily be converted to CCW rotation by removing and remounting housing opposite of standard. 2C862 to 2C864 have 4 mounting points. 4C217 and 4C121 have 6 mounting points. Motor packed separately when ordered with blower. For exhaust systems where air contains dirt, lint, dust, and other lightweight foreign material.

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Note: Review OSHA Codes. OSHA complying guards are required where fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Blower With Motor

Wheel Dia. (in.)	Wheel W (in.)	Wheel Bore (in.)	Inlet Dia. (in.)	H (in.)	W (in.)	D (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
7 ¾ in	4 1⁄16 in	½ in	8 in	15 in	15 in	14 in	**2RXL5**	**2RXP7**	**45J460**
9 in	5 in	½ in	9 in	16 in	16 in	16 in	**2RXL6**	**2RXP8**	**45J461**
10 ⅞ in	5 11⁄16 in	⅝ in	10 in	19 in	18 in	17 in	**2RXL7**	**2RXP9**	**45J462**
12 ½ in	7 9⁄16 in	⅝ in	13 ¼ in	27 in	22 in	22 in	**2RXL9**	**2RXR1**	**2ZB36**
13 ½ in	8 ⅛ in	⅞ in	14 ½ in	28 in	23 in	23 in	**2RXL8**	**2RXT6**	**2ZB35**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.0"	0.250"	0.500"	0.750"	1.000"	1.500"	2.000"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Open Dripproof, 115/230V, 1-Phase Item No.	Totally Enclosed Fan-Cooled, 115/230V, 1-Phase Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	Totally Enclosed Fan-Cooled, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
7 ¾ in	533	448	334	93	—	—	—	1,725 RPM	⅙ hp	64 dBA	**7C552** *	**7AT78** *	—	—	**2C862**
9 in	909	788	655	462	—	—	—	1,725 RPM	¼ hp	69 dBA	**7C553** *	**7AT79**	**7AT80**	—	**2C863**
10 ⅞ in	1,593	1457	1309	1,134	916	97	—	1,725 RPM	¾ hp	75 dBA	**7C554** *	**7AT81**	**7C720**	**7AT82**	**2C864**
12 ½ in	2,461	2331	2179	2,007	1807	1252	166	1,725 RPM	1 ½ hp	79 dBA	**7C555**	**7AT83**	**7C556**	**7AT84**	**4C217**
13 ½ in	3,393	3221	3046	2,863	2664	2164	1181	1,725 RPM	2 hp	81 dBA	—	**7AT85**	**7C639**	**7AT86**	**4C121**

*† Values shown are estimated sound pressure levels. * 115V only.*

Radial Blade High-Pressure Direct-Drive Blowers

- Housing can be rotated to 8 discharge positions in each rotation
- Max. inlet air temp.: 180°F
- Max. ambient temp.: 104°F

Paddle-type, self-cleaning, die-cast wheels rotate clockwise and are precision balanced for top performance.

Bottom horizontal discharge. Great for small-ducted dust exhaust systems and wherever dust collection bags are necessary.

For proper installation, floor-mount vibration isolators (4C875, page 2983) are recommended as follows:

For steel models, order 4 vibration isolators for all except 4C330, (order 6 vibration isolators for 4C330).

For stainless steel models, order 4 vibration isolators for all except 45J503, (order 6 vibration isolators for 45J503).

For aluminum models, order 4 vibration isolators for all except 45J509, (order 6 vibration isolators for 45J509).

WARNING: Not intended for use where flammable or explosive gases, vapors, or dust are present.

Note: Review OSHA Codes. OSHA complying guards are required when fan blades are exposed and within reach of personnel.

The A weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown for blowers are for (inlet Lwi) sound levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Blower without Motor

Wheel Dia. (in.)	INLET GUARD Item No.	OUTLET GUARD Item No.	REPLACEMENT BLOWER WHEEL Item No.
7 ¾ in	**2RXP1**	**2RXT1**	**45J463**
9 in	**2RXP2**	**2RXT2**	**2ZB44** **
9 in	**2RXP2**	**2RXT2**	**45J464** **
10 9⁄16 in	**2RXP3**	**2RXT3**	**2ZB33**
12 ½ in	**2RXP4**	**2RXT4**	**45J465**
13 ½ in	**2RXP5**	**2RXT5**	**2ZB31**

Wheel Dia. (in.)	Shaft Dia. (in.)	CFM @ Static Pressure Shown, 3450 RPM 1"	2"	3"	4"	5"	6"	7"	8"	Blower RPM	Motor HP	dBA @ 5 Feet †	BLOWER WITH MOTOR Totally Enclosed, 115/230V, 1-Phase Item No.	Totally Enclosed, 230/460V, 3-Phase Item No.	Open Dripproof, 115/230V, 1-Phase Item No.	Open Dripproof, 230/460V, 3-Phase Item No.	BLOWER WITHOUT MOTOR Item No.
Assembled, Welded 16-ga. Steel Housing, Gray Baked-on Epoxy Finish																	
7 ¾ in	⅝ in	256	216	165	70	—	—	—	—	3,500 RPM	⅓	74 dBA	**48LX10**	**48LX11**	—	—	—
8 15⁄16 in	⅝ in	445	399	346	282	195	—	—	—	3,500 RPM	¾	77 dBA	**48LX12**	**48LX13**	—	—	—
10 9⁄16 in	⅝ in	746	692	635	575	508	431	329	—	3,500 RPM	1 ½	84 dBA	**48LX14**	**48LX15**	—	—	—
12 ½ in	1 ⅛ in	1145	1090	1033	974	911	842	765	672	3,500 RPM	3	90 dBA	—	**48LX16**	—	—	—
13 ½ in	1 ⅛ in	2037	1952	1866	1777	1685	1587	1482	1367	3,500 RPM	5	92 dBA	—	**48LX17**	—	—	—
Unassembled, Welded 16-ga. Steel Housing, Gray Baked-on Epoxy Finish																	
7 ¾ in	½ in	252	210	157	—	—	—	—	—	3,450 RPM	½	74 dBA	**7D748**	**7AT88**	**7D747**	**7AT87**	**2C940**
9 in	½ in	#	391	336	270	173	—	—	—	3,450 RPM	½	77 dBA	**7D750**	**7AT90**	**7D749**	**7AT89**	**2C820**
	⅝ in	437	391	336	270	173	—	—	—	3,450 RPM	¾	77 dBA	**7E253**	**7AT92**	**7E252**	—	**6YG63**
10 9⁄16 in	⅝ in	#	#	#	559	491	410	297	—	3,450 RPM	1	84 dBA	**7AT93**	**7AT95**	**7C447**	**7AT94**	**4C108**
	⅝ in	734	679	621	559	491	410	297	—	3,450 RPM	1 ½	84 dBA	—	**7AT97**	**7AT96**	**7D751**	**4C108**
12 ½ in	⅞ in	1127	1071	1014	953	888	817	736	638	3,475 RPM	3	90 dBA	—	—	**7AT98**	**7C561**	**4C329**
	1 ⅛ in	1127	1071	1014	953	888	817	736	638	3,475 RPM	3	90 dBA	—	**7AT99**	—	—	**6XWG9**
13 ½ in	1 ⅛ in	#	#	1832	1741	1647	1547	1438	1319	3,430 RPM	5	92 dBA	**7AU01** *	**7C487**	**7AU00** *	**7C562**	**4C330**
	1 ⅛ in	2005	1919	1832	1741	1647	1547	1438	1319	3,460 RPM	7 ½	92 dBA	—	—	—	**7D752**	**4C330**
Unassembled, Welded 16-ga. Stainless Steel Housing																	
7 ¾ in	½ in	252	210	157	—	—	—	—	—	3,450 RPM	½	74 dBA	**7DA72**	**7DA74**	**7DA71**	**7DA73**	**45J497**
9 in	½ in	#	391	336	270	173	—	—	—	3,450 RPM	½	77 dBA	**7DA80**	**7DA82**	**7DA79**	**7DA81**	**45J498**
	⅝ in	437	391	336	270	173	—	—	—	3,450 RPM	¾	77 dBA	**7DA88**	**7DA90**	**7DA87**	**7DA89**	**45J499**
10 ⅝ in	⅝ in	734	679	621	559	491	410	297	—	3,450 RPM	1 ½	84 dBA	—	**7DC01**	—	**7DA95**	**45J501**
	⅝ in	#	#	—	559	491	410	297	—	3,450 RPM	1	84 dBA	—	**7DA99**	**7DA96**	**7DA98**	**45J501**
	⅝ in	#	#	—	—	—	—	—	—	3,450 RPM	1	84 dBA	**7DA97**	—	—	—	**45J501**
	⅝ in	734	679	621	559	491	410	297	—	3,450 RPM	2	84 dBA	—	—	**7DC00**	—	**45J501**
12 ½ in	⅞ in	1127	1071	1014	953	888	817	736	638	3,450 RPM	3	90 dBA	—	—	**7DC09**	**7DC10**	**45J502**
13 ½ in	1 ⅛ in	#	#	1832	1741	1647	1547	1438	1319	3,450 RPM	5	92 dBA	**7DC18** *	**7DC21**	**7DC17** *	**7DC20**	**45J503**
Unassembled, Welded Aluminum Housing																	
7 ¾ in	½ in	252	210	157	—	—	—	—	—	3,450 RPM	½	74 dBA	**7DA76**	**7DA78**	**7DA75**	**7DA77**	**45J504**
9 in	½ in	#	391	336	270	173	—	—	—	3,450 RPM	½	77 dBA	**7DA84**	**7DA86**	**7DA83**	**7DA85**	**45J505**
	⅝ in	437	391	336	270	173	—	—	—	3,450 RPM	¾	77 dBA	**7DA92**	**7DA94**	**7DA91**	**7DA93**	**45J506**
10 ⅝ in	⅝ in	734	679	621	559	491	410	297	—	3,450 RPM	1 ½	84 dBA	—	**7DC08**	—	**7DC02**	**45J507**
	⅝ in	#	#	—	559	491	410	297	—	3,450 RPM	1	84 dBA	—	**7DC06**	**7DC03**	**7DC05**	**45J507**
	⅝ in	#	#	—	—	—	—	—	—	3,450 RPM	1	84 dBA	**7DC04**	—	—	—	**45J507**
	⅝ in	734	679	621	559	491	410	297	—	3,450 RPM	2	84 dBA	—	—	**7DC07**	—	**45J507**
12 ½ in	⅞ in	1127	1071	1014	953	888	817	736	638	3,450 RPM	3	90 dBA	—	—	**7DC13**	**7DC14**	**45J508**
13 ½ in	1 ⅛ in	#	#	1832	1741	1647	1547	1438	1319	3,450 RPM	5	92 dBA	**7DC23** *	**7DC26**	**7DC22** *	**7DC25**	**45J509**

*# Motor overload will result if blower is operated at static pressure below performance shown. † Values shown are estimated sound pressure levels. * 230V only.*
*** Replacement blower wheel 2ZB44 is for use with 2C820; 45J464 is for use with 6YG63.*

Utility Exhaust Blowers

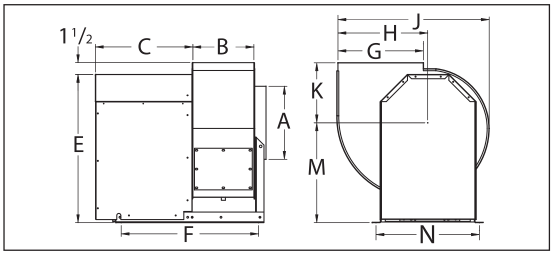
Dayton® MASON INDUSTRIES amca CERTIFIED RATINGS AIR PERFORMANCE

- For spark-resistant industrial applications
- Aluminum wheel with shaft seal and rub ring

Scroll is clockwise rotation and can be rotated in 45° increments to 8 positions; shipped in upblast position. Units feature bolted access door and gray polyester coating. Weather hood included. All models are UL and C-UL Listed.

Note: Review OSHA Codes. OSHA complying guards required when fan blades are exposed and within reach of personnel.

WARNING: Use a hazardous location motor where flammable vapors are involved.



Direct-Drive—488V85 and 488V87 have electronically commutated (EC) motors for up to 70% energy savings. Potentiometer dial on motor allows speed control down to 80%. Internal or external mounting.

- UL-705 Listed for power ventilators
- Max. inlet temp.: 180ºF
- Optional EC Control Kits 43Y140, 35YV92, and 35YV94 on page 2955

Belt-Drive—For commercial kitchen exhaust applications. 1" threaded drain connection point on bottom of blower. Fan motor and drive package components packed separately. Blower is only permissible for UL-762 applications when mounted on exterior of the building, scroll must remain in upblast position for proper grease draining.

- UL-762 Listed for Restaurant Exhaust Appliances (YZHW)
- Max. inlet air temp.: 300°F
- Max. ambient temp: 104°F

Wheel Dia. (in.)	Shaft Dia. (in.)	Dimensions (in.) A	B	C	E	F	G	H	J	K	M	N	MASON FLOOR-MOUNT VIBRATION ISOLATOR Item No.	MASON FLOOR-MOUNT SPRING ISOLATOR Item No.
Direct-Drive														
11 ⅛	—	11	9 ½	9 ½	25 3/32	19 3/16	11 5/64	11 5/64	19 19/64	10 11/16	18 49/64	12 33/64	**4C955**	**5XR76**
15	—	15 ¾	10 5/16	9 ½	25 3/32	19 63/64	15 51/64	15 53/64	27 31/64	13 35/64	18 49/64	12 33/64	**4C876**	**5XR70**
Belt-Drive														
11 ⅛	¾	11 1/64	8 ½	15 ½	22 ¼	20 21/32	11 5/32	11 31/64	20 3/32	10 11/16	15 ⅛	16 7/64	**4C955**	**5XR76**
12 ¼	1	12 ⅞	9 29/32	15 ½	22 ¼	21 21/32	13 1/64	13 5/16	23 17/64	11 51/64	15 ⅛	16 3/64	**4C955**	**5XR76**
13 ½	1	14 11/64	10 57/64	16 ¾	24 ¾	22 49/64	14 21/64	14 39/64	25 35/64	12 19/32	16 ⅝	17 11/16	**4C876**	**5XR70**
15	1 3/16	15 ¾	12 5/64	18 ½	27 ½	24 9/16	15 29/32	16 3/16	28 9/32	13 35/64	18 ½	20 1/64	**4C876**	**5XR70**
16 ½	1 3/16	17 21/64	13 ¼	19 ½	30	28 ¾	17 31/64	17 ¾	31	14 ½	20 ⅜	22 21/64	**4C876**	**5XR70**
18 ¼	1 3/16	19 5/32	14 ⅝	22	33 ¼	32 ¾	19 21/64	19 37/64	34 3/16	15 39/64	22 ⅜	23 ⅜	**4C961**	**5XR70**
20	1 3/16	21	16	23 ¾	36 ⅛	35 ⅝	21 11/64	21 13/32	37 23/64	16 23/32	24 ½	25 ⅝	**4C877**	**5XR72**
22 ¼	1 7/16	23 23/64	17 49/64	24	41 ½	34 57/64	23 35/64	23 49/64	41 29/64	18 5/32	28 ¾	28 ¼	**4C877**	**5XR72**
24 ½	1 7/16	25 23/32	19 17/32	25	45 ¾	36 17/32	25 59/64	26 7/64	45 35/64	19 19/32	21 ½	31 15/32	**4C988**	**5XR72**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	Blower RPM	Motor HP	Sones @ 0.750" SP @ 5 ft.	Motor	Speed Control	Open Dripproof 1-Phase Motor 115V, 60 Hz Item No.
Direct-Drive, With EC Motor											
11 ⅛ in	683 1033 1358	443 875 1238	709 1109	979	— — —	1050 1400 1750	½ hp	—	1,800	43Y140	**488V85**
15 in	1215 1950 2635	793 1703 2448	1434 2257	1097 2059	1611	800 1125 1450	¾ hp	—	1,800	43Y140	**488V87**

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	2.00"	3.00"	Blower RPM	Motor HP	Max. BHP†	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Hazardous Location 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Hazardous Location 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive															
11 ⅛ in	893	836	771	696	518	—	—	2048	¼ hp	0.25 hp	**7DG05**	—	**7DG06**	—	**488V75**
	989	938	882	819	674	494	—	2246	⅓ hp	0.33 hp	**7DG07**	—	**7DG08**	—	
	1151	1106	1061	1011	899	769	—	2581	½ hp	0.5 hp	**7DG09**	—	**7DG10**	—	
	1326	1288	1249	1209	1121	1018	778	2949	¾ hp	0.75 hp	**7DG11**	—	—	—	
	1467	1432	1397	1361	1284	1199	1,005	3245	1 hp	1.0 hp	**7DG12**	—	**7DG13**	—	
	1015	893	737	—	—	—	—	1400	¼ hp	0.15 hp	**7DF95**	**7DF96**	**7DG01**	—	**488V76**
	1246	1158	1047	922	—	—	—	1670	¼ hp	0.25 hp	**7DF97**	**7DF98**	**7DG02**	—	
	1383	1307	1215	1109	738	—	—	1833	⅓ hp	0.33 hp	**7DF99**	—	**7DG03**	**7DF87**	
	1608	1542	1472	1389	1198	788	—	2103	½ hp	0.5 hp	**7DG00**	—	**7DG04**	—	
	1861	1802	1744	1681	1528	1359	—	2408	¾ hp	0.75 hp	**7DF88**	—	**7DF89**	—	
	2060	2005	1953	1900	1776	1629	1,237	2650	1 hp	1.0 hp	**7DF90**	—	**7DF91**	—	
	2373	2323	2277	2232	2135	2024	1,764	3033	1 ½ hp	1.5 hp	**7DF92**	—	**7DF93**	—	
	2628	2582	2539	2498	2415	2322	2,100	3346	2 hp	2.0 hp	—	—	**7DF94**	—	
12 ¼ in	1597	1495	1376	1226	—	—	—	1643	⅓ hp	0.33 hp	**7HT17**	—	**7HT18**	—	**488V77**
	1862	1783	1683	1578	1296	—	—	1889	½ hp	0.5 hp	**7HT19**	—	**7HT20**	—	
	2151	2081	2004	1917	1715	1448	—	2159	¾ hp	0.75 hp	**7HT21**	—	**7HT22**	—	
	2379	2311	2253	2172	2013	1806	1,024	2373	1 hp	1.0 hp	**7HT23**	—	**7HT24**	—	
	2741	2681	2626	2574	2434	2293	1,928	2716	1 ½ hp	1.5 hp	**7HT25**	—	**7HT26**	—	
	3030	2976	2921	2875	2761	2635	2,335	2991	2 hp	1.98 hp	**7HT27**	—	—	—	
13 ½ in	1671	1509	1309	—	—	—	—	1261	¼ hp	0.25 hp	**7F966**	**7F967**	**7F968**	—	**488V78**
	1862	1720	1559	1351	—	—	—	1384	⅓ hp	0.33 hp	**7F969**	**7F970**	**7F971**	**7F972**	
	2176	2056	1926	1783	1296	—	—	1589	½ hp	0.5 hp	**7F973**	**7F974**	**7F975**	**7F976**	
	2522	2419	2311	2196	1929	1395	—	1819	¾ hp	0.75 hp	**7F977**	—	**7F979**	**7F980**	
	2795	2703	2607	2507	2290	2011	—	2002	1 hp	1.0 hp	**7F981**	—	**7F983**	—	
	3224	3145	3062	2979	2801	2607	2,015	2292	1 ½ hp	1.5 hp	**7F985**	—	**7F986**	—	
	3562	3491	3418	3342	3186	3018	2,618	2522	2 hp	2.0 hp	**7A0U6**	—	**7F989**	—	
	4105	4042	3980	3915	3783	3645	3,347	2892	3 hp	3.0 hp	—	—	**7A0U7**	—	
15 in	2119	1926	1694	1268	—	—	—	1161	⅓ hp	0.33 hp	**7HT32**	**7HT33**	**7HT34**	**7HT35**	**488V79**
	2483	2322	2144	1933	—	—	—	1333	½ hp	0.5 hp	**7HT36**	**7HT37**	**7HT38**	**7HT39**	
	2885	2748	2602	2443	2044	—	—	1526	¾ hp	0.75 hp	**7HT40**	**7HT41**	**7HT42**	**7HT43**	
	3201	3078	2950	2814	2506	2007	—	1680	1 hp	1.0 hp	**7HT44**	**7HT45**	**7HT46**	**7HT47**	
	3696	3591	3482	3368	3124	2847	—	1923	1 ½ hp	1.5 hp	**7HT48**	—	**7HT49**	**7HT50**	
	4087	3993	3894	3794	3584	3352	2,730	2116	2 hp	2.0 hp	**7HT51**	—	**7HT52**	**7HT53**	
	4706	4623	4540	4453	4277	4091	3,670	2423	3 hp	3.0 hp	—	—	**7HT54**	—	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified ratings Seal applies to air performance ratings only. ‡ Motor is rated 208-230V. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

CONTINUED

CONTINUED

Utility Exhaust Blowers

Dayton

AMCA CERTIFIED RATINGS AIR PERFORMANCE

Wheel Dia. (in.)	CFM Air Delivery @ Static Pressure Shown* 0.250"	0.500"	0.750"	1.00"	1.50"	2.00"	3.00"	Blower RPM	Motor HP	Max. BHP†	COMPLETE WITH DRIVE PACKAGE** Open Dripproof 1-Phase Motor 115/230V, 60 Hz Item No.	Hazardous Location 1-Phase Motor 115/230V, 60 Hz Item No.	Open Dripproof 3-Phase Motor 230/460V, 60 Hz Item No.	Hazardous Location 3-Phase Motor 230/460V, 60 Hz Item No.	WITHOUT DRIVE PACKAGE** Item No.
Belt-Drive (Cont.)															
16 ½ in	2808	2600	2354	1988	—	—	—	1125	½ hp	0.5 hp	**7F991**	**7F992**	**7F993**	**7F994**	**488V80**
	3270	3093	2899	2677	1824	—	—	1288	¾ hp	0.75 hp	**7F999**	**7C029**	**7C030**	**7C031**	
	3633	3473	3312	3125	2631	—	—	1418	1 hp	1.0 hp	**7C032**	**7C033**	**7C034**	—	
	4203	4066	3925	3782	3443	2973	—	1624	1 ½ hp	1.5 hp	**7C042**	**7A0U8** ‡	**7C043**	—	
	4645	4521	4393	4268	3985	3647	—	1785	2 hp	2.0 hp	**7C045**	—	**7C046**	**7C047**	
	4959	4844	4724	4604	4349	4061	3,201	1900	3 hp	2.42 hp	—	—	**7C048**	—	
	5344	5237	5127	5014	4797	4538	3,893	2041	3 hp	3.0 hp	—	—	**7C050**	—	
	6259	6168	6075	5981	5788	5604	5,148	2378	5 hp	4.7 hp	—	—	**7A0U9**	—	
18 ¼ in	3176	2894	2540	1864	—	—	—	950	½ hp	0.5 hp	**7HT62**	**7HT63**	**7HT64**	**7HT65**	**488V81**
	3706	3479	3206	2880	—	—	—	1087	¾ hp	0.75 hp	**7HT66**	**7HT67**	**7HT68**	**7HT69**	
	4125	3916	3690	3437	2620	—	—	1197	1 hp	1.0 hp	**7HT70**	**7HT71**	**7HT72**	**7HT73**	
	4777	4595	4415	4208	3733	2904	—	1370	1 ½ hp	1.5 hp	**7HT74**	**7HT75**	**7HT76**	**7HT77**	
	5292	5128	4962	4799	4401	3904	—	1508	2 hp	2.0 hp	**7HT78**	—	**7HT79**	**7HT80**	
	6097	5956	5811	5666	5357	5008	3,976	1725	3 hp	3.0 hp	—	—	**7HT81**	**7HT82**	
	7280	7161	7041	6919	6675	6418	5,822	2046	5 hp	4.99 hp	—	—	**7HT83**	—	
20 in	4164	3863	3506	3005	—	—	—	935	¾ hp	0.75 hp	**7C052**	**7C054**	**7C056**	**7C057**	**488V82**
	4629	4362	4057	3703	—	—	—	1027	1 hp	1.0 hp	**7C058**	**7C059**	**7C060**	**7C061**	
	5372	5138	4904	4627	3936	—	—	1176	1 ½ hp	1.5 hp	**7C087**	**7A0V0** ‡	**7C088**	—	
	5960	5749	5537	5309	4782	3996	—	1295	2 hp	2.0 hp	**7C090**	—	**7C091**	**7C092**	
	6876	6695	6508	6324	5908	5435	3,335	1482	3 hp	3.0 hp	—	—	**7C095**	**7A0V1**	
	8208	8057	7903	7745	7436	7079	6,257	1756	5 hp	5.0 hp	—	—	**7A0V2**	**7A0V3**	
	9146	9010	8874	8733	8449	8173	7,500	1950	7 ½ hp	6.78 hp	—	—	**7A0V4**	—	
22 ¼ in	4746	4365	3862	3005	—	—	—	816	¾ hp	0.75 hp	**7HT96**	**7HT97**	**7HT98**	**7HT99**	**488V83**
	5285	4958	4563	4039	—	—	—	897	1 hp	1.0 hp	**7HU00**	**7HU01**	**7HU02**	**7HU03**	
	6147	5857	5557	5206	4115	—	—	1028	1 ½ hp	1.5 hp	**7HU04**	**7HU05**	**7HU06**	**7HU07**	
	6819	6558	6296	6002	5253	3894	—	1131	2 hp	2.0 hp	**7HU08**	—	**7HU09**	**7HU10**	
	7866	7642	7415	7188	6653	5956	—	1294	3 hp	3.0 hp	—	—	**7HU11**	**7HU12**	
	9402	9224	9030	8841	8452	7998	6,788	1535	5 hp	5.0 hp	—	—	**7HU13**	**7HU14**	
24 ½ in	6075	5610	5051	4330	—	—	—	751	1 hp	1.0 hp	**7C097**	**7C098**	**7C099**	**7C100**	**488V84**
	7059	6674	6238	5738	3820	—	—	859	1 ½ hp	1.5 hp	**7C101**	**7A0V5** ‡	**7C102**	—	
	7824	7485	7120	6692	5672	—	—	944	2 hp	2.0 hp	**7C104**	—	**7C105**	**7C106**	
	9045	8768	8452	8128	7361	6420	—	1081	3 hp	3.0 hp	—	—	**7C109**	**7C110**	
	10,813	10,580	10,339	10,072	9512	8870	7,188	1281	5 hp	5.0 hp	—	—	**7C113**	**7C114**	
	12,461	12,252	12,048	11,834	11,369	10,868	9,708	1468	7 ½ hp	7.5 hp	—	—	**7A0V6**	**7A0V7**	
	13,516	13,318	13,129	12,941	12,518	12,089	11,074	1588	10 hp	9.42 hp	—	—	**7A0V8**	—	

** Performance certified is for installation type B: free inlet, ducted outlet. † Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified ratings Seal applies to air performance ratings only. ‡ Motor is rated 208-230V. ** Drive package consists of appropriate motor, belt, and sheaves to obtain the performance listed.*

Corrosion-Resistant Direct-Drive Utility Blowers

PLASTEC™

- 115/230V are 1-phase
- 230/460V are 3-phase
- Max. inlet air temp.: 140°F
- Max. ambient temp.: -13°F
- Totally enclosed fan-cooled motors
- Ball bearings
- Rotation: CCW

Have all-polypropylene construction that is acid, corrosion, and UV resistant with no metal in the airstream. Housing has thick wall construction to help provide maximum protection against acids and corrosion, and has seamless construction to prevent leakage of corrosive air fumes. Models with hazardous location motors are for use in locations with potentially explosive atmospheres. All blowers can be used to exhaust fumes from highly corrosive environments found in chemical plants, laboratories, cleanroom, food processing, pharmaceutical, and water treatment applications.

61DC36

61DC89

Inlet Dia. (in.)	Outlet Dia. (in.)	CFM Air Delivery @ Static Pressure Shown 0.20"	0.25"	2.00"	2.50"	3.00"	Blower RPM	Motor HP	HAZARDOUS LOCATION MOTOR 115/230V Item No.	230/460V Item No.	GENERAL DUTY MOTOR 115/230V Item No.	230/460V Item No.
2.95	2.95	30	40	—	—	—	1,725	0	—	**61DC77**	**61DC73**	—
		—	—	100	90	—	3,450	¼	**61DC75**	—	**61DC72**	**61DC74**
3.54	3.54	—	—	—	—	—	1,725	¼	**61DC81**	**61DC83**	**61DC79**	—
		—	—	100	175	200	3,450	½	**61DC80**	**61DC82**	**61DC78**	—
4.53	4.53	200	250	—	—	—	1,725	½	—	**61DC86**	—	—
		—	—	—	—	300	3,450	1 ½	—	**61DC85**	—	—
4.92	4.47	125	—	—	—	—	1,140	¼	**61DC38**	—	**61DC93**	**61DC94**
		250	275	—	—	—	1,725	¼	**61DC37**	**61DC40**	—	**61DC92**
		375	450	425	400	100	3,450	½	**61DC36**	**61DC39**	**61DC89**	**61DC90**
6.3	6.3	—	—	—	—	—	1,725	¼	**61DC47**	**61DC51**	—	—
		—	—	600	600	600	3,450	1	**61DC45**	**61DC49**	**61DC41**	**61DC43**
		—	—	600	600	600	3,450	1 ½	**61DC46**	**61DC50**	**61DC42**	—
	6.62	300	300	—	—	—	1,140	¼	—	—	**61DC97**	**61DC98**
		—	—	—	—	—	1,725	¼	—	—	**61DC95**	**61DC96**
6.5	6.5	—	—	—	—	—	3,450	3	—	**61DC88**	—	**61DC87**
7.87	7.67	900	900	—	—	—	1,140	¼	—	—	**61DD02**	**61DD03**
		700	800	1000	400	—	1,725	¾	—	—	**61DC99**	**61DD01**
	8.62	900	900	—	—	—	1,140	¼	**61DC58**	—	—	—
		—	—	—	600	700	1,725	½	**61DC56**	—	—	—
		—	—	800	—	—	1,725	¾	**61DC57**	**61DC62**	—	—
		—	—	—	—	1200	3,450	3	—	**61DC59**	—	**61DC53**
		—	—	—	—	—	3,450	4	—	**61DC60**	—	**61DC54**
9.84	10.75	—	—	—	—	—	1,140	¾	**61DC64**	**61DC66**	—	—
		—	—	800	1500	2000	1,725	1 ½	**61DC63**	**61DC65**	—	—
10.75		—	—	—	—	—	1,140	¾	—	—	**61DD06**	**61DD07**
		—	—	800	—	—	1,725	1 ½	—	—	**61DD04**	**61DD05**
12.4	12.4	—	—	2000	3000	3000	1,140	3	—	**61DC70**	—	**61DD09**
		—	—	—	—	—	1,725	7 ½	—	**61DC69**	—	**61DC67**
		—	—	800	1500	2000	1,725	10	—	—	—	**61DD08**
23.5	20	—	—	5000	5000	4500	1,140	5 ½	—	—	—	**61DC71**

Item	Construc. Material	Item No.
Accessories		
Weather Hood	Purple Polypropylene	**3MRC1**
Weather Hood	Gray Polypropylene	**3MRC2**

Convex

Concave

Double Inlet Direct-Drive Blower Wheels

Dayton

- Forward curve
- Rotation facing hub
- Hubs include set screws

Wheels produce high air volume with low vibration for diverse air-moving applications. Individually cartoned for greater protection.

Concave or convex back plates allow motor location on either side of the blower housing. For ventilation, air conditioning, heating, and dehumidifying in industrial and commercial applications.

Note: Single inlet concave models available on Grainger.com®.

Wheel Dia. (in.)	Bore Dia. (in.)	Max. RPM	Wheel Width (in.)	Item No.
Direct Drive, Double Inlet Forward Curve, Concave				
CCW Hub End				
9 7/16 in	½ in	1,750 RPM	9 ½ in	**2UTU8**
11 in	½ in	1,750 RPM	10 ⅝ in	**2UTW2**
CW Hub End				
9 7/16 in	½ in	1,750 RPM	9 ½ in	**2UTT9**
11 in	½ in	1,750 RPM	10 ⅝ in	**2UTW1**
12 3/16 in	½ in	1,550 RPM	8 in	**2UTW6**
12 3/16 in	½ in	1,550 RPM	10 ⅝ in	**2UTX1**
Direct Drive, Double Inlet Forward Curve, Convex				
CCW Hub End				
11 in	½ in	1,750 RPM	8 in	**2UTV6**
12 3/16 in	½ in	1,550 RPM	8 in	**2UTW7**
CW Hub End				
9 7/16 in	½ in	1,750 RPM	6 in	**2UTU4**
9 7/16 in	½ in	1,750 RPM	7 in	**2UTT8**
9 7/16 in	½ in	1,750 RPM	8 in	**2UTU6**
11 in	½ in	1,750 RPM	7 3/16 in	**2UTV4**
11 in	½ in	1,750 RPM	7 ¾ in	**2UTU1**
11 in	½ in	1,750 RPM	9 ½ in	**2UTV9**
11 in	½ in	1,750 RPM	10 ⅝ in	**2UTU2**
12 3/16 in	½ in	1,550 RPM	6 in	**2UTW3**
12 3/16 in	½ in	1,550 RPM	8 in	**2UTW5**

Direct-Drive Blower Wheels

REVCOR REVOLUTIONARY AIR FLOW™

- Single inlet: rotation facing back disc (closed end) of wheel
- Double inlet: rotation facing hub
- Hubs include set screws

Wheels produce high air volume with low vibration for diverse air-moving applications. Individually cartoned for greater protection. Convex back plates allow motor location on either side of the blower housing. For ventilation, air conditioning, heating, and dehumidifying in industrial and commercial applications.

Note: Additional models available on Grainger.com®.

Double Inlet, CW Rotation

Single Inlet, CW Rotation

Single Inlet, CCW Rotation

Wheel Dia. (in.)	Bore Dia. (in.)	Max. RPM	Wheel Width (in.)	Wheel Material	Item No.
Direct Drive, Double Inlet Forward Curve					
CCW Hub End					
5 ¼ in	½ in	2,250 RPM	6 ¾ in	Galvanized Steel	**4GMG2**
5 ¾ in	½ in	2,400 RPM	6 ½ in	Aluminum	**4GMG4**
5 ¾ in	½ in	2,800 RPM	8 in	Galvanized Steel	**4GMG6**
5 ¼ in	½ in	3,200 RPM	8 in	Galvanized Steel	**10W941**
5 ¾ in	½ in	2,700 RPM	6 in	Galvanized Steel	**10W943**
5 ¾ in	⅜ in	2,200 RPM	7 ¼ in	Aluminum	**10W944**
6 5/16 in	½ in	1,925 RPM	7 ½ in	Aluminum	**4GMH6**
6 5/16 in	½ in	1,700 RPM	8 ⅛ in	Galvanized Steel	**4GMH8**
7 ⅛ in	½ in	2,700 RPM	5 ½ in	Galvanized Steel	**4GMJ4**
7 7/16 in	½ in	1,800 RPM	7 in	Galvanized Steel	**4GMJ7**
7 ⅝ in	⅜ in	2,050 RPM	5 ⅜ in	Galvanized Steel	**4GMJ8**
CW/CCW					
5 ½ in	½ in	1,550 RPM	7 in	Plastic	**10W891**
6 in	½ in	1,550 RPM	7 13/16 in	Plastic	**10W892**
6 in	½ in	1,550 RPM	9 in	Plastic	**10W893**
CW Closed End					
5 ¼ in	½ in	2,800 RPM	6 in	Galvanized Steel	**4GMG1**
CW Hub End					
5 ½ in	½ in	3,200 RPM	5 in	Galvanized Steel	**4GMG3**
5 ¾ in	½ in	3,000 RPM	6 ⅞ in	Galvanized Steel	**4GMG5**
6 ⅛ in	½ in	2,000 RPM	7 ¼ in	Galvanized Steel	**4GMG8**
6 5/16 in	½ in	3,400 RPM	5 7/16 in	Galvanized Steel	**4GMG9**
6 5/16 in	½ in	3,000 RPM	6 ⅞ in	Galvanized Steel	**4GMH1**
6 5/16 in	½ in	3,300 RPM	4 in	Galvanized Steel	**4GMH2**
6 5/16 in	½ in	2,700 RPM	5 in	Galvanized Steel	**4GMH3**
6 5/16 in	1 ¼ in	2,200 RPM	6 ⅜ in	Aluminum	**4GMH5**
6 5/16 in	½ in	1,700 RPM	7 ⅞ in	Aluminum	**4GMH7**
6 5/16 in	½ in	1,675 RPM	8 ¼ in	Galvanized Steel	**4GMJ1**
6 ¾ in	½ in	2,000 RPM	7 ¼ in	Galvanized Steel	**4GMJ2**
6 ¾ in	½ in	1,700 RPM	8 ¼ in	Galvanized Steel	**4GMJ3**
7 ⅛ in	½ in	1,950 RPM	6 ¼ in	Galvanized Steel	**4GMJ6** *
7 ⅝ in	½ in	1,800 RPM	7 in	Galvanized Steel	**4GMJ9**
Direct Drive, Double Inlet Forward Curve, Convex					
CCW Hub End					
9 ⅞ in	½ in	1,150 RPM	10 ½ in	Galvanized Steel	**4GMK5**
9 ⅞ in	½ in	1,550 RPM	7 in	Galvanized Steel	**4GMK6**
9 ⅞ in	½ in	1,200 RPM	9 ¼ in	Galvanized Steel	**4GMK7**
CW Hub End					
8 ½ in	½ in	1,750 RPM	7 in	Galvanized Steel	**4GMK1**
9 ½ in	½ in	1,550 RPM	7 in	Galvanized Steel	**4GMK3**
9 ½ in	½ in	1,450 RPM	8 in	Galvanized Steel	**4GMK4**
10 ¾ in	½ in	1,150 RPM	10 ½ in	Galvanized Steel	**4GMK8**
Direct Drive, Single Inlet Forward Curve					
CCW Closed End					
3 in	5/16 in	5,000 RPM	1 ⅞ in	Galvanized Steel	**4DLR6**
3 13/16 in	5/16 in	5,000 RPM	1 ⅞ in	Galvanized Steel	**4DLT1**
3 13/16 in	5/16 in	5,000 RPM	2 1/16 in	Galvanized Steel	**4DLT3**
3 13/16 in	5/16 in	5,000 RPM	2 ½ in	Galvanized Steel	**4DLT6**
4 in	¼ in	3,600 RPM	2 ½ in	Galvanized Steel	**4DLU7**
4 ¾ in	5/16 in	3,600 RPM	2 ½ in	Galvanized Steel	**4DLW2**
4 ¾ in	5/16 in	3,600 RPM	2 15/16 in	Galvanized Steel	**4DLW4**
4 13/16 in	5/16 in	7,400 RPM	1 ⅛ in	Galvanized Steel	**4DLX2**
4 in	5/16 in	5,800 RPM	1 ½ in	Aluminized Steel	**4DLU6**
4 ¼ in	⅜ in	4,500 RPM	2 ½ in	Aluminized Steel	**4DLU9**
4 ¼ in	¼ in	4,500 RPM	2 15/16 in	Aluminized Steel	**4DLV1**
4 ¼ in	5/16 in	4,500 RPM	2 15/16 in	Aluminized Steel	**4DLV3**
5 ¼ in	½ in	3,600 RPM	2 ½ in	Galvanized Steel	**4DLX6**
5 ¼ in	5/16 in	3,600 RPM	2 ½ in	Galvanized Steel	**4DLX8**
5 ¼ in	5/16 in	3,600 RPM	2 15/16 in	Galvanized Steel	**4DLY1**
5 ¼ in	½ in	3,600 RPM	2 15/16 in	Galvanized Steel	**4DLY3**
5 ¼ in	5/16 in	3,600 RPM	3 7/16 in	Galvanized Steel	**4DLY5**
5 ¼ in	½ in	3,600 RPM	3 7/16 in	Galvanized Steel	**4DLY7**
5 ¾ in	½ in	5,700 RPM	1 ½ in	Galvanized Steel	**4DLY9**
5 ¾ in	5/16 in	3,450 RPM	2 ½ in	Galvanized Steel	**4DLZ3**
5 ¾ in	½ in	3,000 RPM	2 15/16 in	Galvanized Steel	**4DMA1**
5 ¾ in	½ in	2,800 RPM	4 in	Galvanized Steel	**4DMC2**
5 ¾ in	⅜ in	3,600 RPM	3 7/16 in	Galvanized Steel & Aluminum	**4DMA5**
6 5/16 in	½ in	2,800 RPM	4 in	Galvanized Steel	**4GLY1**
6 5/16 in	5/16 in	3,400 RPM	2 15/16 in	Galvanized Steel	**4GLX1**
6 5/16 in	½ in	3,400 RPM	3 in	Galvanized Steel	**4GLX4**
6 5/16 in	½ in	3,000 RPM	3 7/16 in	Galvanized Steel	**4GLX6**
6 5/16 in	½ in	4,400 RPM	2 in	Galvanized Steel	**4DMC6**
6 5/16 in	½ in	3,625 RPM	2 ½ in	Galvanized Steel	**4DMC8**
6 ¼ in	5/16 in	3,400 RPM	2 ⅞ in	Galvanized Steel	**10W912**
6 ¼ in	⅝ in	2,200 RPM	3 ¼ in	Aluminized Steel	**10W914**
7 ⅛ in	½ in	2,000 RPM	4 in	Galvanized Steel	**4GLY7**
7 7/16 in	½ in	2,400 RPM	3 ¼ in	Galvanized Steel	**4GLZ7**
7 ⅛ in	5/16 in	2,900 RPM	2 in	Galvanized Steel	**10W917**
7 ⅛ in	⅜ in	1,500 RPM	4 in	Galvanized Steel	**10W940**
8 in	½ in	2,875 RPM	2 ½ in	Galvanized Steel	**4GMA6**
8 in	½ in	2,500 RPM	2 ¼ in	Galvanized Steel	**10W923**
9 ⅞ in	⅝ in	3,000 RPM	2 in	Galvanized Steel	**4GME1**
10 ¾ in	⅝ in	3,150 RPM	1 ⅜ in	Galvanized Steel	**4GME6**
12 ⅝ in	½ in	1,100 RPM	5 in	Galvanized Steel	**4GMF8**
CW Closed End					
3 in	5/16 in	5,000 RPM	1 ⅞ in	Galvanized Steel	**4DLR5**
3 13/16 in	5/16 in	5,000 RPM	1 ⅞ in	Galvanized Steel	**4DLR9**
3 13/16 in	5/16 in	5,000 RPM	2 1/16 in	Galvanized Steel	**4DLT2**
3 13/16 in	5/16 in	5,000 RPM	2 ½ in	Galvanized Steel	**4DLT5**
3 13/16 in	5/16 in	5,375 RPM	2 ¼ in	Galvanized Steel	**4DLU2**
4 ¾ in	5/16 in	3,600 RPM	2 ½ in	Galvanized Steel	**4DLW3**
4 13/16 in	5/16 in	7,400 RPM	1 ⅛ in	Galvanized Steel	**4DLX1**
4 ¼ in	¼ in	4,500 RPM	2 15/16 in	Aluminized Steel	**4DLV2**
5 ¼ in	5/16 in	3,600 RPM	2 15/16 in	Galvanized Steel	**4DLX9**
5 ¼ in	5/16 in	3,600 RPM	3 7/16 in	Galvanized Steel	**4DLY4**
5 ¼ in	½ in	3,600 RPM	3 7/16 in	Galvanized Steel	**4DLY6**
5 ¾ in	5/16 in	3,450 RPM	2 ½ in	Galvanized Steel	**4DLZ4**
5 ¾ in	½ in	3,000 RPM	2 15/16 in	Galvanized Steel	**4DLZ9**
5 ¾ in	½ in	3,000 RPM	3 13/16 in	Galvanized Steel	**4DMA8**
5 ¾ in	½ in	2,800 RPM	4 in	Galvanized Steel	**4DMC1**
5 1/16 in	½ in	4,000 RPM	2 ½ in	Galvanized Steel	**10W905**
5 1/16 in	5/16 in	3,300 RPM	3 in	Galvanized Steel	**10W907**
5 ¾ in	⅜ in	3,600 RPM	3 7/16 in	Galvanized Steel & Aluminum	**4DMA4**
6 5/16 in	5/16 in	3,400 RPM	2 15/16 in	Galvanized Steel	**4GLX2**
6 5/16 in	½ in	3,400 RPM	3 in	Galvanized Steel	**4GLX3**
6 5/16 in	½ in	3,000 RPM	3 7/16 in	Galvanized Steel	**4GLX5**
6 5/16 in	½ in	2,800 RPM	4 in	Galvanized Steel	**4GLX9**
6 5/16 in	½ in	4,400 RPM	2 in	Galvanized Steel	**4DMC5**
6 5/16 in	½ in	3,625 RPM	2 ½ in	Galvanized Steel	**4DMC7**
6 ¼ in	5/16 in	3,400 RPM	2 ⅞ in	Galvanized Steel	**10W911**
6 ¼ in	5/16 in	3,500 RPM	1 ½ in	Aluminum	**10W910**
7 ⅛ in	5/16 in	3,350 RPM	1 ⅞ in	Galvanized Steel	**4GLY6**
7 ⅛ in	½ in	2,000 RPM	4 in	Galvanized Steel	**4GLY8**
7 7/16 in	½ in	2,825 RPM	2 ¾ in	Galvanized Steel	**4GLZ4**
7 7/16 in	½ in	2,400 RPM	3 ¼ in	Galvanized Steel	**4GLZ6**
7 ⅝ in	½ in	2,000 RPM	4 in	Galvanized Steel	**4GMA1**
7 ⅛ in	½ in	2,400 RPM	2 ½ in	Galvanized Steel	**10W918**
12 ⅝ in	½ in	1,100 RPM	5 in	Galvanized Steel	**4GMF7**

** Off-center disc.*

Dayton

Portable Blowers/Carpet Dryers

- Space-saving design
- 3-conductor power cords

Dry carpets, furniture, and hard floors after spills and cleaning treatments. Have a thermally protected motor that will automatically shut down if overheated, then will restart automatically once motor has cooled. Models are stackable up to 5 units high except 4XLE2. All blowers/dryers are suitable for use in commercial janitorial and plumbing applications. 4XLE2 is UL and CUL Listed.

61HL71

61HL69

4XLE2

Airflow Direction	CFM High	Number of Speeds	Power Cord Length	Number of Power Outlets	Item No.
Horizontal	1,800 cfm	2	25 ft	0	**61HL71**
Horizontal, Vertical	300 cfm	1	10 ft	0	**61HL68**
	700 cfm	3	10 ft	2	**61HL69**
	1,050 cfm	2	25 ft	2	**61HL70**
	1,648 cfm	3	25 ft	0	**4XLE2**

DRI-EAZ

Industrial/Jobsite Blowers and Carpet Dryers

- Stackable compact design
- Hospital-grade cord with lit plug, except 425X94

Rugged, compact, and efficient units are ideal for ventilation and for drying floors, structures, and walls. Accessories are available on Grainger.com.

39C367—Quickly dries up to 80 sq. ft. of carpet or hard floors. Compact and lightweight model is ideal for bathrooms, cabinets, or closets. ETL tested to UL/CSA standards.

- 360° airflow

38MC15—Lightweight air mover dries floors, stairways, and walls. Variable speed control and digital amp readout.

- Daisy chain up to 10 units on 1 circuit

5UNZ4—Use to ventilate confined spaces, create negative air pressure, and remove odors or dust. UL and C-UL Listed.

- High static pressure
- Duct up to 125 ft.

425X94—High-velocity, variable air flow for ventilating and drying ceilings, floors, and walls. Focus airflow with integrated pivot-and-lock stand. ETL tested to UL/CSA standards.

- Up to 2.7A draw
- Can daisy chain up to 4 units on 1 circuit

786F11—Low-profile unit is suitable for use in confined space ventilating and has a GFCI-protected power outlet socket with reset switch. ETL tested to UL/CSA standards.

- Up to 2.1A draw
- Can daisy chain up to 6 units on 1 circuit

39C367

5UNZ4

425X94

Airflow Direction	CFM High	Number of Speeds	Power Cord Length	Number of Power Outlets	Amps	Motor HP	Housing Height	Housing Length	Housing Width	Item No.
360°	750 cfm	1	10 ft	0	1.1 A	1/6 hp	9 in	15 ¼ in	15 ¼ in	**39C367**
Horizontal	885 cfm	Variable	15 ft	2	1.2 A	¼ hp	9 in	24 in	18 in	**38MC15**
	2,041 cfm	1	20 ft	0	7.4 A	1 hp	19 ¼ in	15 ¾ in	18 ¾ in	**5UNZ4**
Horizontal, Vertical	2,600 cfm	Variable	16 ft	1	2.7 A	13⁄32 hp	24 ⅛ in	10 ⅞ in	24 ⅜ in	**425X94**
Horizontal; Lateral; Vertical	885 cfm	2	15 ft	1	2.1 A	¼ hp	9 in	24 in	18 in	**786F11**

Item	For Use With	Mfr. Model	Item No.
Filters			
HEPA Filter	Mfr. No. F504	F518	**34CF05**
Replacement HEPA Filter	Mfr. No. F504/F505	F519	**38ZL91**
Replacement Pre-Filter	Mfr. No. F504/F505	F520	**38ZL92**
Accessories			
Extension Duct	5UNZ4 Vortex Axial Fan and 4AYF5 Portable Air Scrubber	F405	**5UNZ9**

Air King Ventilation Products

Pivoting Utility Blowers

- 120V, 60 Hz
- 3 speeds
- OSHA-compliant guards

High-velocity, focused air flow and innovative 225° or 270° pivoting fan heads ventilate and cool work areas while keeping dust and debris in check. 2 grounded 120V outlets accommodate power tools or other devices up to 10A total. 3-conductor 10-ft. cords: 1XGG3 and 2EKZ9 Type S with 5-15P GFCI plug; 1XGG2 Type S with 5-15P plug.

2EKZ9 is safety yellow. See instructions for applicable limitations of use. ETL and C-ETL Listed.

1XGG2

1XGG3

2EKZ9

Blower Wheel Dia.	CFM High	CFM Med.	CFM Low	Amps	Motor HP	Housing Dim. W	Housing Dim. H	Housing Dim. L	Outlet Dim. W	Outlet Dim. H	Mfr. Model	Item No.
6 in	310 cfm	260	190	0.65/0.55/0.50 A	1⁄16 hp	9 ¼ in	11 ¼ in	11 ½ in	6 ½ in	3 in	9550	**1XGG2**
7 in	350 cfm	300	250	0.95/0.80/0.70 A	1⁄13 hp	11 in	14 ½ in	13 in	8 in	4 in	9555	**1XGG3**
7 in	350 cfm	300	250	0.95/0.80/0.70 A	1⁄13 hp	11 in	14 ½ in	13 in	8 in	4 in	9566	**2EKZ9**

Scan. Order. Done.
Details on page A1.

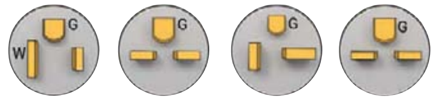
Window and Wall Air Conditioner Selection Guide

Determine Cooling Capacity (BtuH) needs using table at right. The table does not include people or equipment loads. Add 600 BtuH per person. For heavy shade, reduce by 10%. For sunny spaces, increase by 10%. For use in a kitchen, add 4000 BtuH.

CEER (combined energy efficiency ratio): The higher the number, the more efficient the unit.

STANDARD 8-FT. CEILING Average Coverage Area	Cooling Capacity Needed
100 to 150 sq. ft.	4000 to 5999 BtuH
150 to 250 sq. ft	6000 to 6999 BtuH
250 to 300 sq. ft.	7000 to 7999 BtuH
300 to 350 sq. ft.	8000 to 8999 BtuH
350 to 400 sq. ft.	9000 to 9999 BtuH
400 to 450 sq. ft.	10,000 to 11,999 BtuH
450 to 550 sq. ft.	12,000 to 13,999 BtuH
550 to 700 sq. ft.	14,000 to 17,999 BtuH
700 to 1000 sq. ft.	18,000 to 20,999 BtuH
1000 to 1200 sq. ft.	21,000 to 22,999 BtuH
1200 to 1400 sq. ft.	23,000 to 23,999 BtuH
1400 to 1500 sq. ft.	24,000 to 29,999 BtuH
1500 to 2000 sq. ft.	30,000 to 33,999 BtuH
2000 to 2500 sq. ft.	34,000 to 35,000 BtuH

PLUG CONFIGURATION



5-15P 6-15P 6-20P 6-30P

494L51

494L46

FRIEDRICH

Commercial-Grade Window Air Conditioners

- Programmable
- Quiet operation
- 24-hr. timer
- Auto restart
- Left/right reversible power cord
- Control panel lockout (ON-OFF)
- Anti-intrusion protection

Made for commercial-grade applications with components that withstand more demanding environments. Commonly used to cool offices, retail stores, multi-family buildings, barracks, and dorms. Install in a window or through the wall. Units have remote capability and can be managed via Wi-Fi to allow centralized control of settings for one or more units. They're also compatible with Amazon Alexa and Google Home.

Window Mounting Kits—Window kits are included with Cooling-Only models, but are an accessory item for Cooling/Heating models. Window kits are required for window installation.

Carbon Filters—Remove odors and VOCs. Achieve up to a MERV 6 rating when used with standard filter.

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Chassis Type	Mfr. Model	Item No.
Cooling Only											
6,000 BtuH	150 to 250 sq ft	12.1	115 V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ06A10	**494L51**
8,000 BtuH	300 to 350 sq ft	12.0	115 V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ08A10	**494L52**
8,000 BtuH	300 to 350 sq ft	12.0	115 V AC	LCDI, 5-15P	4	16 in	26 in	29 in	Slide Out	KCS08A10	**494L54**
9,500 BtuH	350 to 400 sq ft	10.9	115 V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KCQ10A10	**494L53**
10,000 BtuH	400 to 450 sq ft	12.0	115 V AC	LCDI, 5-15P	4	16 in	26 in	29 in	Slide Out	KCS10A10	**494L55**
12,000 BtuH	450 to 550 sq ft	12.0	115 V AC	LCDI, 5-15P	4	16 in	26 in	29 in	Slide Out	KCS12A10	**494L56**
12,000 BtuH	450 to 550 sq ft	12.0	230 V AC	LCDI, 6-15P	4	16 in	26 in	29 in	Slide Out	KCS12A30	**494L58**
13,600 BtuH	450 to 550 sq ft	10.9	115 V AC	LCDI, 5-15P	4	16 in	26 in	29 in	Slide Out	KCS14A10	**494L57**
13,600 BtuH	450 to 550 sq ft	12.0	115 V AC	LCDI, 5-15P	3	18 in	26 in	34 ½ in	Slide Out	KCM14A10	**54XN29**
15,700 BtuH	550 to 700 sq ft	10.7	230 V AC	LCDI, 6-15P	4	16 in	26 in	29 in	Slide Out	KCS16A30	**494L59**
20,000 BtuH	700 to 1000 sq ft	10.3	230 V AC	LCDI, 6-15P	4	18 in	26 in	29 in	Slide Out	KCM18A30	**494L49**
21,500 BtuH	1000 to 1200 sq ft	10.3	230 V AC	LCDI, 6-15P	4	18 in	26 in	29 in	Slide Out	KCM21A30	**494L50**
24,000 BtuH	1400 to 1500 sq ft	10.3	230 V AC	LCDI, 6-20P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KCL24A30	**494L46**
28,000 BtuH	1400 to 1500 sq ft	9.9	230 V AC	LCDI, 6-20P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KCL28A30	**494L47**
35,000 BtuH	2000 to 2500 sq ft	9.0	230 V AC	LCDI, 6-30P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KCL36A30	**494L48**
Cooling/Heating, Electric Heat											
7,700 BtuH	250 to 300 sq ft	11.0	115 V AC	LCDI, 5-15P	4	14 ¼ in	19 ¾ in	21 ⅜ in	Slide Out	KEQ08A11	**494L63**
12,000 BtuH	450 to 550 sq ft	10.9	230 V AC	LCDI, 6-20P	4	16 in	26 in	29 in	Slide Out	KES12A33	**494L64**
15,700 BtuH	550 to 700 sq ft	10.7	230 V AC	LCDI, 6-20P	4	16 in	26 in	29 in	Slide Out	KES16A33	**494L65**
20,000 BtuH	700 to 1000 sq ft	10.3	230 V AC	LCDI, 6-30P	4	18 in	26 in	29 in	Slide Out	KEM18A34	**494L62**
24,000 BtuH	1400 to 1500 sq ft	10.3	230 V AC	LCDI, 6-30P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KEL24A35	**494L60**
35,000 BtuH	2000 to 2500 sq ft	9.0	230 V AC	LCDI, 6-30P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KEL36A35	**494L61**
Cooling/Heating, Heat Pump											
10,000 BtuH	400 to 450 sq ft	10.8	115 V AC	LCDI, 5-15P	4	16 in	26 in	29 in	Slide Out	KHS10A10	**494L68**
12,000 BtuH	450 to 550 sq ft	10.8	230 V AC	LCDI, 6-20P	4	16 in	26 in	29 in	Slide Out	KHS12A33	**494L69**
17,500 BtuH	550 to 700 sq ft	10.8	230 V AC	LCDI, 6-30P	4	18 in	26 in	29 in	Slide Out	KHM18A34	**494L67**
24,000 BtuH	1400 to 1500 sq ft	10.2	230 V AC	LCDI, 6-30P	4	20 ¼ in	28 in	35 ½ in	Slide Out	KHL24A35	**494L66**

For Use With	Mfr. Model	Item No.
Window Mount Kits for Cooling/Heating Models		
Kühl for "Q" Chassis	KWIKQ	**3JA19**
Kühl for Small Chassis	KWIKS	**48LU80**
Kühl for Medium Chassis	KWIKMB	**48LU79**
Kühl for Large Chassis	KWIKL	**48LU78**
Carbon Filters (3 Pack)		
All KCL, KEL and KHL Kühl Commercial Grade Models	KWCFL	**6JHJ0**
All KCS, KES and KHS Kühl Commercial Grade Models	KWCFS	**6JHH8**
All KCM, KEM and KHM Kühl Commercial Grade Models	KWCFM	**6JHH9**
All KCQ and KEQ Kühl Commercial Grade Models	KWCFQ	**40HY56**

4MH73

426R70

A/C·SAFE Frost King

Window Air Conditioner Brackets

Relieve stress that air conditioners place on windows. They install from inside and include a built-in level and hardware. For additional window air conditioner accessories, go to Grainger.com®.

Weight Cap.	H	W	D	Mfr. Model	Item No.
A/C Safe					
Up to 80 Lbs	1 ¾ in	4 ¾ in	14 ½ in	AC-080	**4MH72**
Up to 160 Lbs	1 ¾ in	4 ¾ in	—	AC-160	**4MH73**
Frost King					
Up to 80 Lbs	4 ⅞ in	14 ½ in	1 ¾ in	ACB80H	**426R70**
Up to 160 Lbs	5 in	19 ½ in	1 ¾ in	ACB160H	**426R71**

38GM12

FRIGIDAIRE LG perfect aire FRIEDRICH

Residential-Grade Window Air Conditioners

- Programmable, except 470D39 and 61CZ61
- 24-hr. timer, except 470D39 and 61CZ61

Units are made of residential-grade materials and have a decorative front grille that blends in with home interiors. Typically used to cool rooms in houses and apartments. Remote capability, except 470D39 and 61CZ61.

Frigidaire—FHW models are Wi-Fi capable.

LG—61CZ62 has a variable-speed compressor that adjusts the compressor motor speed to regulate temperature for greater energy efficiency.

Perfect Aire—Feature a remote control with a built-in room temperature sensor that regulates room temperature around the remote, allowing the remote to become the thermostat.

Friedrich—CCW and CEW models can be installed in a window or through the wall. All units can be managed via Wi-Fi to allow centralized control of settings. Compatible with Amazon Alexa and Google Home. Units have Seacoast Protection to guard against corrosion.

- Quiet operation
- Auto restart
- Left/right reversible power cord
- Washable filter

55KJ56

45RK41

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Chassis Type	Brand	Mfr. Model	Item No.
Cooling Only												
5,000 BtuH	100 to 150 sq ft	12.1	115 V AC	LCDI, 5-15P	2	12 in	16 in	15 ¼ in	Fixed	Frigidaire	FFRE053WA1	**61DD85**
5,000 BtuH	100 to 150 sq ft	11.0	115 V AC	LCDI, 5-15P	2	11 ⅛ in	17 ⅜ in	14 ⅜ in	—	Lg Commercial	LW5016	**61CZ61**
5,000 BtuH	100 to 150 sq ft	12.1	115 V AC	LCDI, 5-15P	—	12 ¼ in	16 in	13 ¼ in	—	Perfect Aire	5PAC5000	**60FV08**
5,050 BtuH	100 to 150 sq ft	11.0	115 V AC	LCDI, 5-15P	2	11 ⅞ in	16 ⅛ in	16 ¼ in	Fixed	Frigidaire	FFRA051WA1	**470D39**
6,000 BtuH	150 to 250 sq ft	12.1	115 V AC	LCDI, 5-15P	3	13 ½ in	18 ½ in	19 ¾ in	Slide Out	Friedrich	CCW06B10B	**60RE42**
6,000 BtuH	150 to 250 sq ft	12.1	115 V AC	LCDI, 5-15P	Variable	13 ¼ in	18 ½ in	15 ¼ in	Fixed	Frigidaire	FHWW063WB1	**55KJ54**
6,000 BtuH	150 to 250 sq ft	12.1	115 V AC	LCDI, 5-15P	—	13 ½ in	18 ¾ in	13 ¾ in	—	Perfect Aire	5PAC6000	**60FV09**
8,000 BtuH	300 to 350 sq ft	12.0	115 V AC	LCDI, 5-15P	3	13 ½ in	18 ½ in	19 ¾ in	Slide Out	Friedrich	CCW08B10B	**60RE43**
8,000 BtuH	300 to 350 sq ft	12.0	115 V AC	LCDI, 5-15P	Variable	13 ¼ in	18 ½ in	17 ½ in	Fixed	Frigidaire	FHWW083WB1	**55KJ55**
10,000 BtuH	400 to 450 sq ft	12.0	115 V AC	LCDI, 5-15P	3	14 ⅝ in	19 ¾ in	23 ¾ in	Slide Out	Friedrich	CCW10B10	**55HF05**
10,000 BtuH	400 to 450 sq ft	12.0	115 V AC	LCDI, 5-15P	Variable	14 ½ in	19 in	21 ½ in	Fixed	Frigidaire	FHWW103WB1	**55KJ56**
10,000 BtuH	400 to 450 sq ft	12	115 V AC	LCDI, 5-15P	3	14 ½ in	19 in	21 ½ in	Fixed	Frigidaire	FFRE103WA1	**61DD88**
12,000 BtuH	450 to 550 sq ft	12.0	115 V AC	LCDI, 5-15P	3	14 ⅝ in	19 ¾ in	23 ¾ in	Slide Out	Friedrich	CCW12B10	**55HF06**
12,000 BtuH	450 to 550 sq ft	12.0	115 V AC	LCDI, 5-15P	Variable	14 ½ in	19 in	21 ½ in	Fixed	Frigidaire	FHWW123WB1	**55KJ57**
12,000 BtuH	450 to 550 sq ft	12	115 V AC	LCDI, 5-15P	3	14 ½ in	19 in	21 ½ in	Fixed	Frigidaire	FFRE123WA1	**61DD89**
15,000 BtuH	550 to 700 sq ft	11.8	115 V AC	LCDI, 5-15P	3	18 in	23 ⅞ in	25 ⅜ in	Slide Out	Friedrich	CCW15B10	**55HF07**
15,000 BtuH	550 to 700 sq ft	11.8	115 V AC	LCDI, 5-15P	Variable	17 ⅞ in	23 ⅝ in	25 ⅜ in	Fixed	Frigidaire	FHWW153WB1	**55KJ58**
15,000 BtuH	700 to 1000 sq ft	10.7	115 V AC	LCDI, 5-15P	—	18 in	23 ¾ in		—	Perfect Aire	5PAC15000	**216UU5**
15,100 BtuH	550 to 700 sq ft	11.8	115 V AC	LCDI, 5-15P	3	17 ⅞ in	23 ⅝ in	25 ⅜ in	Slide Out	Frigidaire	FFRE153WA1	**61DD90**
18,000 BtuH	700 to 1000 sq ft	11.8	208/230 V AC	LCDI, 6-20P	3	18 in	23 ⅞ in	25 ⅜ in	Slide Out	Friedrich	CCW18B30	**55HF08**
18,000 BtuH	700 to 1000 sq ft	11.8	230 V AC	LCDI, 6-15P	3	17 ⅞ in	23 ⅝ in	25 ⅜ in	Slide Out	Frigidaire	FHWC183WB2	**61DD91**
22,000 BtuH	1000 to 12000 sq ft	10.0/10.0	208/230 V AC	LCDI, 5-15P	4	17 ¾ in	26 in	26 ¼ in	Slide Out	Lg Commercial	LW2217IVSM	**61CZ62**
24,000 BtuH	1400 to 1500 sq ft	10.3	208/230 V AC	LCDI, 6-20P	3	18 ⅝ in	27 in	26 ⅝ in	Slide Out	Friedrich	CCW24B30	**55HF09**
25,000 BtuH	1400 to 1500 sq ft	10.3	230 V AC	LCDI, 6-20P	3	18 ⅝ in	26 ½ in	26 ½ in	Slide Out	Frigidaire	FHWC253WB2	**61DD92**
25,000 BtuH	1400 to 1500 sq ft	9.5	230 V AC	LCDI 6-30P	—	18 ¾ in	26 ½ in	26 ¾ in	—	Perfect Aire	3PACH25000	**379A66**
28,000 BtuH	1400 to 1500 sq ft	9.4	230 V AC	LCDI, 6-30P	3	18 ⅝ in	26 ½ in	26 ½ in	Slide Out	Frigidaire	FHWC282WB2	**61DD93**
Slider/Casement												
8,000 BtuH	300 to 350 sq ft	11.2	115 V AC	LCDI, 5-15P	3	20 ¼ in	14 ½ in	25 ½ in	Fixed	Frigidaire	FFRS0822SE	**45RK41**
10,000 BtuH	400 to 450 sq ft	10.4	115 V AC	LCDI, 5-15P	3	20 ¼ in	14 ¼ in	23 ½ in	Fixed	Frigidaire	FFRS1022RE	**22XR23**
Cooling/Heating, Electric Heat												
8,000 BtuH	300 to 350 sq ft	10.9	115 V AC	LCDI, 5-15P	3	14 ⅝ in	19 ¾ in	23 ¾ in	Slide Out	Friedrich	CEW08B11A	**55HF10**
12,000 BtuH	450 to 550 sq ft	10.9	208/230 V AC	LCDI, 6-20P	3	14 ⅝ in	19 ¾ in	23 ¾ in	Slide Out	Friedrich	CEW12B33	**55HF11**
12,000 BtuH	450 to 550 sq ft	10.9	230 V AC	6-20P	—	16 ¼ in	22 ¾ in	23 ¼ in	—	Perfect Aire	3PACH12000	**60FV10**
18,000 BtuH	700 to 1000 sq ft	10.7	208/230 V AC	LCDI, 6-20P	3	18 in	23 ⅞ in	25 ⅜ in	Slide Out	Friedrich	CEW18B33	**55HF12**
24,000 BtuH	1400 to 1500 sq ft	9.4	208/230 V AC	LCDI, 6-20P	3	18 ⅝ in	27 in	26 ⅝ in	Slide Out	Friedrich	CEW24B33	**55HF13**
Cooling/Heating, Cooling Only, Electric Heat												
18,000 BtuH	700 to 1000 sq ft	10.7	230 V AC	LCDI, 6-30P	3	17 ⅞ in	23 ⅝ in	25 ⅜ in	Slide Out	Frigidaire	FHWE182WA2	**61DD96**
25,000 BtuH	1400 to 1500 sq ft	9.4	230 V AC	LCDI, 6-30P	3	18 ⅝ in	26 ½ in	26 ½ in	Slide Out	Frigidaire	FHWE252WA2	**61DD97**
Cooling/Heating, Cooling Only, Electric Heat, Heat Pump												
8,000 BtuH	300 to 350 sq ft	9.8	115 V AC	LCDI, 5-15P	3	15 ⅜ in	22 ⅝ in	23 ¼ in	Slide Out	Frigidaire	FHWH082WA1	**61DD94**
Cooling/Heating, Electric Heat, Heat Pump												
11,000 BtuH	400 to 450 sq ft	9.8	115 V AC	LCDI, 5-15P	3	15 ⅜ in	22 ⅝ in	23 ¼ in	Slide Out	Frigidaire	FHWH112WA1	**61DD95**
Cooling/Heating, Fan Forced												
7,500 BtuH	250 to 300 sq ft	11.0	115 V	5-15P	2	13 22/25 in	18 11/25 in	20 22/25 in	Sliding	Lg	LW8016HR	**63ZA18**

Air Conditioner Covers

Frost King CHILL STOP'R

Fit over the front grille or outside cabinet of an idle AC unit to block drafts, dirt, and allergens from entering a building.

426R65

5E169

Description	For Use With	Includes	Mfr. Model	Item No.
Window Air Conditioner Covers, Frost King				
Outdoor	Small Window Air Conditioners	(1) 18 in x 27 in x 16 in Polyurethane Reinforced Vinyl Air Conditioner Cover	AC2H	**426R64**
Outdoor	Large Window Air Conditioners	(1) 20 in x 28 in x 30 in Polyurethane Reinforced Vinyl Air Conditioner Cover	AC5H	**426R65**
Indoor	Small Window Air Conditioners	(1) 17 in x 25 in Quilted Fabric Air Conditioner Cover	AC9H	**426R66**
Indoor	Large Window Air Conditioners	(1) 20 in x 28 in Quilted Fabric Air Conditioner Cover	AC11H	**426R67**
Through-the-Wall Air Conditioner Cover, Chill Stop'R				
Indoor	Through-The-Wall Air Conditioners Up to 19 in H x 27 ¾ in W x 6 in D	—	1212-06	**5E169**

Hazardous Location Through-the-Wall Air Conditioners

FRIEDRICH

- Hot gas bypass for cooling operation at low ambient temps., down to 45°F (7°C) without freezing

Sealed motor and solid-state relays prevent sparking while cooling potentially hazardous environments. Can be used where flammable gases, vapors, and liquids are handled or used within enclosed containers or systems, but are not normally present in concentrations high enough to be ignitable. Commonly used to cool laboratories, control rooms, and storage areas. These commercial-grade units have an e-coated coil and powder-coated steel cabinet to resist corrosion. Units are hardwired and have a 15A circuit with a time-delay fuse. Meet ANSI/UL 484 Room A/C, SASO 2681, UL Listed for use in Class I, Div. 2, Groups A, B, C and D, ISA 12.12.101, and NFPA 70.

22D138

Cooling Cap.	Average Coverage Area	EER	Voltage	No. of Speeds	H	W	D	Mfr. Model	Item No.
14,000/14,500 BtuH	550 to 700 sq ft	9.7/9.7	208/230V AC	1	15 15/16 in	25 15/16 in	27 ⅜ in	SH15M30	**22D138**
21,000/21,000 BtuH	700 to 1000 sq ft	9.6/9.7	208/230V AC	1	17 15/16 in	25 15/16 in	27 ⅜ in	SH20M30	**35MW48**

494L36

Architectural Grille 3UD86

Wall Sleeve 4PKZ3

FRIEDRICH

Commercial-Grade Through-the-Wall Air Conditioners

- Programmable
- Quiet operation
- 24-hr. timer
- Auto restart
- Control panel lockout (ON-OFF)
- Anti-intrusion protection

These through-the-wall air conditioners are made for commercial-grade applications with components that withstand more demanding environments. They're commonly used for cooling offices, retail stores, multifamily buildings, barracks, and dorms. Units have remote capability and can be managed via Wi-Fi to allow centralized control of settings for one or more units. They're also compatible with Amazon Alexa and Google Home. New installations require a wall sleeve and fit in Friedrich and Fedders A and B 27" sleeves.

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D†	Mfr. Model	Item No.
Cooling Only										
8,000 BtuH	300 to 350 sq ft	10.6	115V AC	LCDI, 5-15P	3	15 ¾ in	26 ½ in	21 in	WCT08A10	**494L39**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC	LCDI, 5-15P	3	15 ¾ in	26 ½ in	21 in	WCT10A10	**494L40**
10,000 BtuH	400 to 450 sq ft	10.6	230V AC	LCDI, 5-15P	3	15 ¾ in	26 ½ in	21 in	WCT10A30	**494L41**
12,000 BtuH	450 to 550 sq ft	9.5	115V AC	LCDI, 5-15P	3	15 ¾ in	26 ½ in	21 in	WCT12A10B	**494L42**
12,000 BtuH	450 to 550 sq ft	9.5	230V AC	LCDI, 6-15P	3	15 ¾ in	26 ½ in	21 in	WCT12A30B	**494L43**
16,000 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-15P	3	15 ¾ in	26 ½ in	21 in	WCT16A30	**494L44**
Cooling/Heating, Electric Heat										
10,000 BtuH	400 to 450 sq ft	10.6	230V AC	LCDI, 6-20P	3	15 ¾ in	26 ½ in	21 in	WET10A33	**494L36**
12,000 BtuH	450 to 550 sq ft	9.5	230V AC	LCDI, 6-20P	3	15 ¾ in	26 ½ in	21 in	WET12A33	**494L37**
15,400 BtuH	550 to 700 sq ft	9.3	230V AC	LCDI, 6-20P	3	15 ¾ in	26 ½ in	21 in	WET16A33	**494L38**
Cooling/Heating, Heat Pump										
12,000 BtuH	450 to 550 sq ft	9.3	230V AC	LCDI, 6-20P	3	15 ¾ in	26 ½ in	21 in	WHT12A33	**494L45**
Accessories										
Architectural Grille									AG	**3UD86**
Drain Kit									DK	**3UD88**
Wall Sleeve, 16 ¾ inH x 27 inW x 16 ¾ inD, For Use With Wall master through the wall air conditioners									WSE	**4PKZ3**

† Depth includes front cover.

494L26

470D57

Residential-Grade Through-the-Wall Air Conditioners

FRIEDRICH · perfect aire · FRIGIDAIRE · GE

- 24-hr. timer
- Auto restart
- Washable filter

Through-the-wall air conditioners that are made of residential-grade materials and have a decorative front grille that blends in with home interiors. They're typically used to cool rooms in houses and apartments. Units include a remote control.

Friedrich—Units can be managed with Wi-Fi and are compatible with Amazon Alexa and Google Home. Units have Seacoast Protection to guard against corrosion. Trim kit is included to give units a finished appearance. Chassis fits 24½" to 27" sleeves.
- Quiet operation

Frigidaire—Chassis fits most existing wall sleeves. New installations require Wall Sleeve Kit 5PP42.
- Programmable

GE—Units are ADA compliant. Wall sleeve is included.
- Programmable

Perfect Aire—Feature a remote control with a built-in room temperature sensor that regulates room temperature around the remote, allowing the remote to become the thermostat.
- Programmable

Cooling Cap.	Average Coverage Area	CEER Rating	Voltage - Plug Type	Fits Wall Sleeve Dimensions	Brand	Mfr. Model	Item No.
Cooling Only							
8,000 BtuH	300 to 350 sq ft	10.6	115V AC, 5-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT08A10	**494L30**
8,000 BtuH	400 to 450 sq ft	9.5	115V AC, LCDI 5-15P	15 ¼ in x 25 ½ in x 17 ½ in	Perfect Aire	4PATW8000	**216UU7**
9,800/10,000 BtuH	400 to 450 sq ft	10.6	208/230V AC, 6-15P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTA103WA2	**470D59**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC, 5-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT10A10	**494L31**
10,000 BtuH	400 to 450 sq ft	10.6	230V AC, 6-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT10A30B	**494L32**
10,000 BtuH	400 to 450 sq ft	10.6	115V AC, 5-15P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTA103WA1	**470D58**
10,000 BtuH	400 to 450 sq ft	9.5	115V AC, LCDI 5-15P	15 ¼ in x 25 ½ in x 17 ½ in	Perfect Aire	4PATW10000	**379A69**
11,700/12,000 BtuH	450 to 550 sq ft	10.5	208/230V AC, 6-15P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTA123WA2	**470D62**
12,000 BtuH	450 to 550 sq ft	10.5	115V AC, 5-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT12A10	**494L33**
12,000 BtuH	450 to 550 sq ft	10.5	230V AC, 6-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT12A30	**494L34**
12,000 BtuH	450 to 550 sq ft	10.3	115V AC, 5-15P	15 ¼ in x 25 ½ in x 17 ½ in	Perfect Aire	4PATW12000	**379A71**
14,000/14,000 BtuH	550 to 700 sq ft	9.3	208/230V AC, 6-15P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTA142WA2	**470D64**
14,000 BtuH	550 to 700 sq ft	9.3	230V AC, 6-20P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UCT14A30B	**494L35**
14,000 BtuH	550 to 700 sq ft	9.5	230V AC, LCDI 6-15P	15 ¼ in x 25 ½ in x 17 ½ in	Perfect Aire	3PATW14002	**216UV1**
Cooling/Heating, Electric Heat							
4,100/8,300 BtuH	300 to 350 sq ft	—	115V AC, 5-20P	15 ⅝ in x 26 in x 16 ⅞ in	GE	AJEQ08AWH	**6AMC2**
8,000 BtuH	300 to 350 sq ft	9.6	115V AC, 5-15P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UET08A11	**494L26**
8,000 BtuH	300 to 350 sq ft	9.6	115V AC, 5-15P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTH082WA1	**470D57**
9,800/10,000 BtuH	400 to 450 sq ft	9.6	208/230V AC, 6-20P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTH102WA2	**470D60**
10,000 BtuH	400 to 450 sq ft	9.6	230V AC, 6-20P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UET10A33	**494L27**
11,400/11,600 BtuH, 9,500/11,600 BtuH	400 to 450 sq ft	—	208/230V AC, 6-20P	15 ⅝ in x 26 in x 16 ⅞ in	GE	AJEQ12DCH	**6AMC3**
12,000 BtuH	450 to 550 sq ft	9.6	230V AC, 6-20P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UET12A33	**494L28**
12,000 BtuH	450 to 550 sq ft	9.5	230 V, 6-20P	15 ⅝ in x 25 ⁵⁄₁₆ in	Frigidaire	FFTH122WA2	**61DD99**
14,000/14,000 BtuH	550 to 700 sq ft	9.3	208/230V AC, 6-20P	15 ¼ in x 25 ½ in x 16 in, 17 ½ in or 22 in	Frigidaire	FFTH142WA2	**470D65**
14,000 BtuH	550 to 700 sq ft	9.3	230V AC, 6-20P	15 ½ in x 25 ⅞ in x 16 ¾ in	Friedrich	UET14A33	**494L29**
14,000 BtuH	550 to 700 sq ft	9.5	230V AC, 5-20P	15 ¼ in x 25 ½ in x 17 ½ in	Perfect Aire	3PATWH14002	**60FV11**
Accessories							
Architectural Grille, For Use with Friedrich Uni-Fit Through The Wall USC Sleeve					Friedrich	UXAA	**46E371**
Architectural Grille, For Use with Frigidaire Through The Wall Air Conditioners					Frigidaire	5304515640	**5H443**
Through-The-Wall AC Sleeve, 15 ¼ in Height x 25 ½ in Width x 17 ½ in Depth, For Use With Standard 24 in Thru-the-Wall AC Units					Perfect Aire	PAWS1	**60KZ92**
Wall Sleeve with Weather Seals, 15¼ H x 25½ W x 17½"D, For Use With Frigidaire Through The Wall Air Conditioners					Frigidaire	5304522751	**5PP42**
Wall Sleeve, 15½ H x 25⅞ W x 16¾"D, For Use With Friedrich Uni-Fit Air Conditioners					Friedrich	USC	**2RLC7**

Packaged Terminal Air Conditioners with Electric Heat

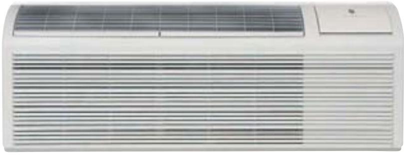
FRIEDRICH Amana Heating & Air Conditioning

- Quiet operation
- 2-motor design
- Power cord included

Have separate cooling and heating systems for overcoming harsher winter temps. Electric heating element provides heat when temps. fall below freezing. Packaged terminal air conditioners (PTACs) typically run quieter and have longer service than packaged terminal heat pumps (PTHPs), but use more energy for heating. Units with Seacoast Protection guard against corrosion.

Friedrich—Wall sleeve is required for new construction, sold separately.

Amana—New installations require an exterior grille and wall sleeve, sold separately.



31TN70

Cooling Cap.	Average Coverage Area	EER	Voltage	NEMA Plug Configuration	Heating Cap.	Brand	WITH SEACOAST PROTECTION Mfr. Model	WITH SEACOAST PROTECTION Item No.	WITHOUT SEACOAST PROTECTION Mfr. Model	WITHOUT SEACOAST PROTECTION Item No.
Without Outside Make-Up Air										
7,200/7,000 BtuH	250 to 300 sq ft	13.0/13.0	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDE07K3SG	**31TN70**	—	—
7,200 BtuH	250 to 300 sq ft	13.0	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDE07R3SG	**31TN71**	—	—
7,700 BtuH	250 to 300 sq ft	11.5/11.7	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTC073G25CXXX	**36PT39**	PTC073G25AXXX	**36PT49**
7,700 BtuH	250 to 300 sq ft	11.5/11.7	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTC073G35CXXX	**36PT40**	PTC073G35AXXX	**36PT50**
9,000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTC093G25CXXX	**36PT41**	PTC093G25AXXX	**36PT51**
9,000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTC093G35CXXX	**36PT42**	PTC093G35AXXX	**36PT52**
9,000 BtuH	350 to 400 sq ft	11.2/11.5	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTC093G50CXXX	**36PT43**	PTC093G50AXXX	**36PT53**
9,200/9,400 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDE09K3SG	**31TN72**	—	—
9,400 BtuH	350 to 400 sq ft	12.1	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDE09R3SG	**31TN73**	—	—
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTC123G25CXXX	**36PT44**	PTC123G25AXXX	**36PT54**
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTC123G35CXXX	**36PT45**	PTC123G35AXXX	**36PT55**
11,500/11,700 BtuH	400 to 450 sq ft	10.3/10.4	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTC123G50CXXX	**36PT46**	PTC123G50AXXX	**36PT56**
11,600/11,800 BtuH	400 to 450 sq ft	11.6/11.6	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDE12K3SG	**31TN74**	—	—
11,800 BtuH	400 to 450 sq ft	11.6	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDE12R3SG	**31TN75**	—	—
14,200/14,500 BtuH	550 to 700 sq ft	10.4/10.4	208/230V AC	LCDI, 6-30P	17,000/13,900 BtuH	Friedrich	PDE15K5SG	**31TN76**	—	—
14,700/15,000 BtuH	550 to 700 sq ft	10.0/10.0	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTC153G35CXXX	**36PT47**	PTC153G35AXXX	**36PT57**
14,700/15,000 BtuH	550 to 700 sq ft	10.0/10.0	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTC153G50CXXX	**36PT48**	PTC153G50AXXX	**36PT58**

Packaged Terminal Air Conditioners with Heat Pump

FRIEDRICH Amana Heating & Air Conditioning

- Quiet operation
- 2-motor design
- Power cord included

Packaged terminal air conditioners (PTACs) have a heat pump that allows for switching between cooling and heating for year-round climate control. Heat pump uses less energy for heating than electrical heat when outdoor temps. stay above freezing; ideal for climates with mild winters. Also called packaged terminal heat pumps (PTHPs), they have an auxiliary electric heater for heating on days when temps. fall below freezing. Units with Seacoast Protection guard against corrosion.

Friedrich—Wall sleeve is required for new construction, sold separately. 467X23 and 467X24 include washable MERV 8 filter.

Amana—New installations require an exterior grille and wall sleeve, sold separately.

36PT59

Cooling Cap.	Average Coverage Area	EER	Voltage	NEMA Plug Configuration	Heating Cap.	Brand	WITH SEACOAST PROTECTION Mfr. Model	WITH SEACOAST PROTECTION Item No.	WITHOUT SEACOAST PROTECTION Mfr. Model	WITHOUT SEACOAST PROTECTION Item No.
With Outside Make-Up Air										
9,400/9,600 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,942 BtuH	Friedrich	PVH09K3F	**467X23**	—	—
11,800/12,000 BtuH	450 to 550 sq ft	11.3/11.4	208/230V AC	LCDI, 6-20P	11,942 BtuH	Friedrich	PVH12K3F	**467X24**	—	—
Without Outside Make-Up Air										
7,000/7,200 BtuH	250 to 300 sq ft	13.0/13.0	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDH07K3SG	**31TN77**	—	—
7,200 BtuH	250 to 300 sq ft	13	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDH07R3SG	**31TN78**	—	—
7,700 BtuH	250 to 300 sq ft	11.7	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTH073G25CXXX	**36PT59**	PTH073G25AXXX	**36PT69**
7,700 BtuH	250 to 300 sq ft	11.7	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTH073G35CXXX	**36PT60**	PTH073G35AXXX	**36PT70**
9,000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTH093G25CXXX	**36PT61**	PTH093G25AXXX	**36PT71**
9,000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTH093G35CXXX	**36PT62**	PTH093G35AXXX	**36PT72**
9,000 BtuH	350 to 400 sq ft	11.5	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTH093G50CXXX	**36PT63**	PTH093G50AXXX	**36PT73**
9,200/9,400 BtuH	350 to 400 sq ft	12.1/12.1	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDH09K3SG	**31TN79**	—	—
9,400 BtuH	350 to 400 sq ft	12.1	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDH09R3SG	**31TN80**	—	—
11,600/11,800 BtuH	400 to 450 sq ft	11.6/11.6	208/230V AC	LCDI, 6-20P	11,700/9,600 BtuH	Friedrich	PDH12K3SG	**31TN81**	—	—
11,800 BtuH	400 to 450 sq ft	11.6	265V AC	LCDI, 7-20P	11,700 BtuH	Friedrich	PDH12R3SG	**31TN82**	—	—
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-15P	8,500/6,800 BtuH	Amana	PTH123G25CXXX	**36PT64**	PTH123G25AXXX	**36PT74**
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTH123G35CXXX	**36PT65**	PTH123G35AXXX	**36PT75**
12,000 BtuH	450 to 550 sq ft	10.7	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTH123G50CXXX	**36PT66**	PTH123G50AXXX	**36PT76**
14,200/14,500 BtuH	550 to 700 sq ft	10.4/10.4	208/230V AC	LCDI, 6-30P	17,000/13,900 BtuH	Friedrich	PDH15K5SG	**31TN83**	—	—
14,500 BtuH	550 to 700 sq ft	9.7	208/230V AC	LCDI, 6-20P	12,000/9,900 BtuH	Amana	PTH153G35CXXX	**36PT67**	PTH153G35AXXX	**36PT77**
14,500 BtuH	550 to 700 sq ft	9.7	208/230V AC	LCDI, 6-30P	17,100/14,000 BtuH	Amana	PTH153G50CXXX	**36PT68**	PTH153G50AXXX	**36PT78**

Description	Mfr. Model	Item No.
Amana Accessories		
Drain Kit	DK900D	**36PT82**
Electric Subbase, 115/208/230V 15/20A	PTSB320E	**36PT87**
Electric Subbase, 208/230/265V 30A	PTSB330E	**36PT88**
Hardwire Kit, 230/265V	PTPWHWK4	**36PT90**
Mechanical Thermostat	D9945801	**36PV03**
Non-Programmable Thermostat, 2-Stage Heat / 1-Stage Cool or Heat Pump	PHWT-A150H	**36PV05**
Power Disconnect Switch, 208/230V	PSHW03A	**36PT92**
Standard Grille, Metal, 16 ½ inH x 42 13⁄32 inW x 1 39⁄64 inD	SGK01B	**36PT80**
Wall Sleeve, Metal, Beige, 16 1⁄16 inH x 42 inW x 14 ⅛ inD	WS900E	**36PT79**
Friedrich Accessories		
Architectural Grille, Beige	PXBG	**1VXT9**
Architectural Grille, Clear	PXAA	**1VXU3**
Condensate Drain Kit	PXDR10	**1VXU1**
Drain Pan, 8 in Width	VPDP2	**55ET91**
Insulated Wall Sleeve, 16 inH x 42 inW x 13 ¾ inD	PDXWSA	**1VXU2**
Power Cord, 230/208VAC, 6-15P	PXPC23015A	**31TN87**
Power Cord, 230/208VAC, 6-20P	PXPC23020A	**31TN88**
Power Cord, 265VAC, 6-15P	PXPC26515A	**31TN89**
Power Cord, 265VAC, 7-20P	PXPC26520A	**31TN90**
Powered Subbase, 265V 30A	PXSB26530	**6DPW8**
Standard Grille, Anodized Silver	PXGA	**1VXT8**
Wired Thermostat, 24VAC/DC	EMRT	**483F37**
Wired Thermostat, 24VDC	RT7	**54ZV40**
Wireless Thermostat, 24VDC, 24V DC	WRT2	**54ZV42**

Amana Heating & Air Conditioning FRIEDRICH

Packaged Terminal Air Conditioner Accessories

Find additional wall air conditioner accessories on Grainger.com.

36PT82

36PV05

1VXU2

483F37

31TN87

55MN68

Multizone Ductless Mini-Split Indoor Wall-Mount Air Handlers

FRIEDRICH

- 208/230VAC
- Seacoast Protection guards against corrosion
- WiFi-capable
- Programmable
- Remote control

Fasten to a wall (typically near the ceiling) to blow cooled or heated air into a room or area. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity for cooling more than 1 room. New installations require refrigerant line set, sold separately on Grainger.com.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
7,000 BtuH	250 to 300 sq ft	8,500 BtuH	0	11 in	37 ⅜ in	8 ⅛ in	FPHMW07A3B	**55MN68**
9,000 BtuH	350 to 400 sq ft	9,500 BtuH	22.5	11 in	37 ⅜ in	8 ⅛ in	FPHFW09A3B	**55MN69**
12,000 BtuH	450 to 550 sq ft	13,000 BtuH	22	11 in	37 ⅜ in	8 ⅛ in	FPHFW12A3B	**55MN70**
18,000 BtuH	700 to 1,000 sq ft	19,000 BtuH	23.3	13 in	48 in	9 ¼ in	FPHFW18A3B	**55MN71**
23,500 BtuH	1,200 to 1,400 sq ft	26,000 BtuH	21	13 in	48 in	9 ¼ in	FPHFW24A3B	**55MN72**

55MN61

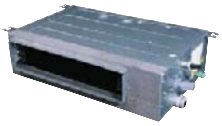
Multizone Ductless Mini-Split Indoor Ceiling-Mount Cassette Air Handlers

FRIEDRICH

- 208/230VAC
- Seacoast Protection guards against corrosion
- WiFi-capable
- Programmable
- Remote Control

Commonly installed in the center of a room within a cutout or drop ceiling. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity for cooling more than 1 room. New installations require refrigerant line set, sold separately on Grainger.com.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
12,000 BtuH	450 to 550 sq ft	14,400 BtuH	19	8 ½ in	22 ½ in	22 ½ in	FPHFC12A3B	**55MN61**
18,000 BtuH	700 to 1,000 sq ft	21,200 BtuH	19	14 ½ in	33 in	33 in	FPHFC18A3B	**55MN62**



55MN63

Multizone Ductless Mini-Split Indoor Ceiling-Mount Concealed Duct Air Handlers

FRIEDRICH

- 208/230VAC
- Seacoast Protection guards against corrosion
- WiFi-capable
- Programmable
- Remote Control

Install within a ceiling, furr down, or soffit. They can be connected directly to a register or to ductwork. Multiple air handlers can be connected to an outdoor condenser of sufficient capacity to form a multizone mini-split system. New installations require refrigerant line set, sold separately on Grainger.com.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
12,000 BtuH	450 to 550 sq ft	14,400 BtuH	19	22 ¼ in	42 ½ in	11 ¼ in	FPHFD12A3A	**55MN63**
18,000 BtuH	700 to 1,000 sq ft	21,200 BtuH	19	22 ¼ in	53 in	11 in	FPHFD18A3A	**55MN64**

55MN65

Multizone Ductless Mini-Split Outdoor Condensers

FRIEDRICH

- 208/230VAC
- Seacoast protection
- WiFi-capable, except 60RE44
- Programmable
- Remote Control, except 60RE44

Used as part of a multizone mini-split system along with two or more indoor air handlers. Weather-resistant cabinet houses and protects compressor, condenser coils, and other interior components. Can be roof-mounted or placed on the ground outside a wall. New installations require refrigerant line set, sold separately on Grainger.com.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Outdoor Height	Outdoor Width	Outdoor Depth	Mfr. Model	Item No.
7,000 BtuH	250 to 300 sq ft	18,000 BtuH	0	26 ⅜ in	33 ⅞ in	12 ¼ in	FPHMR18A3A	**55MN65**
24,000 BtuH	1,400 to 1,500 sq ft	24,000 BtuH	22	33 in	37 ⅜ in	13 ⅜ in	FPHMR24A3A	**55MN66**
32,000 BtuH	1,500 to 2,000 sq ft	36,000 BtuH	21	41 ⅜ in	37 ⅜ in	13 ⅜ in	FPHMR36A3A	**55MN67**
42,000 BtuH	2,000 to 2,500 sq ft	42,000 BtuH	20	41 ⅜ in	37 ⅜ in	13 ⅜ in	FPHMR42A3A	**60RE44**

21HF08

Mini-Split Tool Kits

YELLOW JACKET

Item	Includes	Brand	Mfr. Model	Item No.
Mini-Split Tool Kit	Flare Tool, Heat Pump Manifold, Hex Key Set, Hoses, R410-A Coupler, Torque Wrench, Tube Cutter & Bag, Vacuum/Charge Valve	Yellow Jacket	60991	**21HF08**
Mini-Split Tool Kit	¼ in Brass Caps (5), ¼ in High Pressure KOBRA Hose Set, ¼ in Shield Locking Caps (4), ¼ in Valve Core Removal Tool, 5/16 in Male x ¼ in Female Brass Adapters (2), Flaring Tool, Hex Key Set, JB Backpack, Patriot Manifold with R410A gauges, Torque Wrench	JB Industries	MSKIT1	**35YX50**
Mini-Split Tool Kit	(2) ¼ in Male x 5/16 in Female Brass Adapters, (4) 5/16 in Shield Locking Caps, (5) 5/16 in Brass Caps, 5/16 in High Pressure KOBRA Hose Set, 5/16 in Valve Core Removal Tool, Flaring Tool, Hex Key Set, JB Backpack includes PATRIOT Manifold with R410A, Torque Wrench Kit	JB Industries	MSKIT2	**35YX51**
Interchangeable Head Torque Wrench Kit	(6) Interchangeable Heads: 17, 22, 24, 26, 27, 29mm, Release Tool, Blow Molded Case	Yellow Jacket	60650	**33NT62**
Interchangeable Head Torque Wrench Kit	(8) Interchangeable Heads: 16, 17, 21, 22, 24, 26, 27, 29mm, Release Tool, Blow Molded Case	Yellow Jacket	60652	**33NT63**

55AD43

61HV75

Digital/Wireless App Manifolds

testo

Measure both low- and high-refrigerant pressure to troubleshoot issues such as leaks or to aid when evacuating and recharging refrigeration or AC systems. Manifolds can analyze, store, and send measurement data on refrigeration and AC systems and heat pumps. They have a large graphic display and are Bluetooth capable. 55AD43 only comes with two smart probe pipe clamp thermometers and two refrigeration smart pressure probes, batteries, and a carrying case.

Description	Refrigerant Compatibility	No. of Valves	Accuracy	Gauges High-Side Red	Gauges Low-Side Blue	Mfr. Model	Item No.
Smart Probes AC Refrigeration Test Kit		0	+/-0.50%	0 to 870 psi	-14 to 870 psi	0563 0002 20	**55AD43**
Smart Digital Manifold	Multiple Refrigerants	2	±0.50%	-15 to 870 psi	-15 to 870 psi	0564 5501 01	**61HV73**
Smart Digital Manifold		4	±0.50%	-15 to 870 psi	-15 to 870 psi	0564 5571 01	**61HV74**
Smart Digital Manifold		4	±0.50%	-15 to 870 psi	-15 to 870 psi	0564 5572 01	**61HV75**

FRIEDRICH

Single-Zone Ductless Mini-Split Systems with Wall-Mount Air Handler

- Cooling/Heating, Heat Pump
- WiFi-capable
- Seacoast Protection guards against corrosion
- Programmable
- Remote Control

Include a condenser and a wall-mount air handler for standard installations. New installations require refrigerant line set, sold separately on Grainger.com.

55MN54

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Voltage	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
9,000 BtuH	350 to 400 sq ft	10,500 BtuH	19.5	115V AC	11 ⅛ in	33 ⅞ in	8 ½ in	FPHW091A	**55MN54**
9,000 BtuH	350 to 400 sq ft	10,500 BtuH	22.5	208/230V AC	11 ⅛ in	33 ⅞ in	8 ½ in	FPHW093A	**55MN56**
12,000 BtuH	450 to 550 sq ft	14,000 BtuH	22	115V AC	11 ⅛ in	33 ⅞ in	8 ½ in	FPHW121A	**55MN55**
12,000 BtuH	450 to 550 sq ft	14,000 BtuH	22	208/230V AC	11 ⅛ in	33 ⅞ in	8 ½ in	FPHW123A	**55MN57**
18,000 BtuH	700 to 1,000 sq ft	19,500 BtuH	23.3	208/230V AC	13 ⅛ in	45 ⅛ in	10 in	FPHW183A	**55MN58**
23,500 BtuH	1,200 to 1,400 sq ft	26,500 BtuH	21	208/230V AC	13 ⅛ in	45 ⅛ in	10 in	FPHW243A	**55MN59**
36,000 BtuH	2,000 to 2,500 sq ft	28,000 BtuH	16.4	208/230V AC	13 ⅝ in	50 ⅝ in	10 ¼ in	FPHW363B	**55MN60**

FRIEDRICH

Single-Zone Split System with Heat Pump

55MN60

- 208/230VAC
- Cooling/Heating, Heat Pump
- Seacoast Protection guards against corrosion
- Programmable
- Remote control

Includes a condenser and a wall-mount air handler for standard installations. The air handler fastens to a wall (typically near the ceiling) to blow cooled or heated air into a single room or area. This wall-mount system is typically easier to reach for installation and maintenance compared to ceiling-mount systems.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
36,000 BtuH	2,000 to 2,500 sq ft	28,000 BtuH	16.4	13 ⅝ in	50 ⅝ in	10 ¼ in	FPHW363B	**55MN60**

FRIEDRICH

Ductless Split System Air Conditioners

- 208/230VAC
- Cooling/Heating
- Programmable: 785WT3 only

785WT3—Compact cassette unit installs in a suspended ceiling and mounts flush to the ceiling to ease installation and for a clean appearance.

785WT2—Concealed duct unit installs in the ceiling or furr down for an unobtrusive installation.

Cooling Cap.	Average Coverage Area	Heating Cap. - Heat Pump	SEER	Indoor Head Height	Indoor Head Width	Indoor Head Depth	Mfr. Model	Item No.
36,000 BtuH	2,000 to 2,500 sq ft	36,000 BtuH	19.5	11 ¾ in	33 ⅛ in	33 ⅛ in	FPHC363A	**785WT3**
24,000 BtuH	1,400 to 1,500 sq ft	28,000 BtuH	18	10 ⅝ in	35 ⅜ in	28 ⅜ in	FPHD243	**785WT2**

55MN75

55MN74

FRIEDRICH

Ductless Mini-Split Accessories

These accessories are made for Friedrich ductless mini-split air conditioners to ensure compatibility and proper function.

For Universal Ductless Mini-Split Accessories, go to Grainger.com.

Description	Mfr. Model	Item No.
Cassette Grille, For use with Friedrich Ductless Cassette Larger BTU	FPCG182436	**55MN76**
Cassette Grille, For use with Friedrich Ductless Cassette Smaller BTU	FPCG0912	**55MN75**
Wall Controller, For use with All Friedrich Ductless Split Systems	FPWC1	**55MN74**

MOVINCOOL
The #1 Spot Cooling Solution

Ceiling Air Conditioner

- Air-cooled, vented

Slim top-to-bottom profile fits above drop ceilings. Intake and exhaust flanges connect to ceiling ducts to cool computer rooms, telecom closets, offices, and healthcare facilities. Unit hardwires into an electrical circuit and has built-in mounting brackets for attaching to ceiling down rods.

36P688

Cooling Cap.	Average Coverage Area	Voltage	Sound Level	H	W	D	Mfr. Model	Item No.
Air Conditioner								
10,500 BtuH	400 to 450 sq ft	115V AC	52 dB	15 ⅕ in	32 in	20 in	CM12	**36P688**

Description	Mfr. Model	Item No.
Accessories		
Condenser Intake Air Plenum, For Use With Mfr. No. CM12	481769-0221	**36P692**
Exhaust Air Flange, For Use With CM25	481170-0191	**36P694**
Exhaust Air Flange, For Use With Mfr. No. CM12	481170-0440	**36P691**
Millivolt Thermostat, For Use With Classic 40, Classic 60, and CM12	LA484500-3430	**36P693**

55KJ59

40JZ85

60RE40

FRIGIDAIRE Dayton FRIEDRICH LG

Light-Duty Portable Air Conditioners

- 115V
- Outside venting required
- Window adapter kit included

Can be wheeled into place to cool a small room or supplement the primary air conditioning system in offices, schools, and other areas. Require ducting to discharge hot exhaust air to the outdoors.

Friedrich—Window slider kit fits vertical and horizontal openings.

BtuH Cooling - DOE SACC	Average Coverage Area	NEMA Plug Configuration	No. of Speeds	Max. Exhaust Hose Length	Max. Supply Hose Length	H	W	D	Key Features	Brand	Mfr. Model	Item No.
Cooling Only, Air-Cooled Ducted												
3,800 BtuH	100 to 150 sq ft	LCDI, 5-15P	3	5 ft	17 ft	31 ⅜ in	19 ⅜ in	16 ½ in	Remote Control, WiFi-Capable	Frigidaire	GHPC132AB1	**55KJ59**
5,225 BtuH	100 to 150 sq ft	LCDI, 5-15P	3	6 ft 7 in	—	24 ¾ in	11 ¾ in	17 ¾ in	Programmable, Remote Control	Dayton	40JZ85	**40JZ85**
5,300 BtuH	100 to 150 sq ft	LCDI, 5-15P	2	5 ft	—	27 ¾ in	13 ⅝ in	14 in	Programmable, Remote Control	Dayton	60YP69	**60YP69**
7,000 BtuH	250 to 300 sq ft	LCDI, 5-15P	2	5 ft	—	27 ¾ in	13 ⅝ in	14 in	Programmable, Remote Control	Dayton	60YP70	**60YP70**
8,000 BtuH	300 to 350 sq ft	LCDI, 5-15P	3	5 ft	—	27 ⅝ in	17 ⅞ in	14 ⅜ in	Programmable, Remote Control	Dayton	60YP71	**60YP71**
Cooling Only, Air-Cooled Vented												
5,000 BtuH	Up to 200 sq ft	LCDI, 5-15P	4	5 ft	5 ft	27 ⅝ in	16 ½ in	12 ⅝ in	LCD Remote, Sleep Control Function, WiFi Capable	Friedrich	ZCP08SA	**60RE37**
6,000 BtuH	Up to 300 sq ft	LCDI, 5-15P	4	5 ft	5 ft	27 ⅝ in	16 ½ in	12 ⅝ in	LCD Remote, Sleep Control Function, WiFi Capable	Friedrich	ZCP10SA	**60RE38**
7,500 BtuH	Up to 400 sq ft	LCDI, 5-15P	3	5 ft	5 ft	28 ⅜ in	17 ⅛ in	14 ¼ in	Condensate Overflow Protection, LCD Remote, Self-Evaporative Condensate System, WiFi Capable	Friedrich	ZCP12DB	**60RE40**
8,000 BtuH	450 to 550 sq ft	LCDI, 5-15P	4	5 ft	5 ft	27 ⅝ in	16 ½ in	12 ⅝ in	LCD Remote, Sleep Control Function, WiFi Capable	Friedrich	ZCP12SA	**60RE39**
10,000 BtuH	400 to 450 sq ft	LCDI, 5-15P	Variable	—	—	30 ⅜ in	19 ⅜ in	18 ⅛ in	24 hr On/Off Timer, Cellular Control, Electronic, On/Off and Temp. Control, WiFi Control	Lg Commercial	LP1419IVSM	**61CZ65**
Cooling/Heating, Heat Pump, Air-Cooled Vented												
9,500 BtuH	Up to 500 sq ft	LCDI, 5-15P	3	5 ft	5 ft	28 ⅜ in	17 ⅛ in	14 ¼ in	Condensate Overflow Protection, LCD Remote, Self-Evaporative Condensate System, WiFi Capable	Friedrich	ZHP14DB	**60RE41**

43LD80

6RHW7

TRIPP·LITE

Heavy-Duty Air-Cooled Portable Air Conditioners

- 24-hr. timer

Provide cool, dehumidified air for cooling people, processes, and equipment. Ideal for rack enclosures, network closets, and areas without access to facility HVAC. Condensate is re-evaporated for drip-free operation, so no floor drain is required and no water tank needs to be emptied.

Cooling Cap.	Average Coverage Area	Voltage	NEMA Plug Configuration	No. of Speeds	Max. Exhaust Hose Length	Max. Supply Hose Length	H	W	D	Key Features	Item No.
Cooling Only, Air-Cooled Ducted											
18,000 BtuH	700 to 1,000 sq ft	208/240V AC	L6-20P	4	10 ft	6 ft	38 ¼ in	20 ½ in	21 ¾ in	Cellular Control, Programmable, Tamper Resistant	**43LD80**
24,000 BtuH	1,400 to 1,500 sq ft	208/240V AC	L6-20P	4	10 ft	6 ft	38 ¼ in	20 ½ in	21 ¾ in	Cellular Control, Programmable, Tamper Resistant	**43LD81**
33,000 BtuH	2,000 to 2,500 sq ft	208/240V AC	L6-30P	Variable	—	—	78 ⅜ in	23 ⅝ in	42 ¾ in	Cellular Control, Programmable, Tamper Resistant	**43ME35**
Cooling Only, Air-Cooled Vented											
12,000 BtuH	450 to 550 sq ft	120V AC	LCDI, 5-15P	3	10 ft	6 ft	32 ⅝ in	12 ⅝ in	19 ¾ in	Programmable, Remote Control	**6RHW7**

4PKR1

L	Mfr. Model	Item No.
Hose Kits with Quick-Connect Fittings		
10 ft	88SA0763504	**13M332**
20 ft	88SA0763505	**13M330**
40 ft	88SA0763506	**13M331**

KOLDWAVE

Heavy-Duty Water-Cooled Portable Air Conditioners

- Ambient temp. range: 70° to 113°F
- 2 cooling speeds

Provide high-capacity air conditioning where no window or outside air source is available. Units connect to a water supply and drain. 18" quick-connect hose included; additional hose kits sold separately. Automatic regulating valve shuts off water flow when the compressor is not running. Great for computer rooms, medical equipment rooms, and telecommunication equipment rooms.

Cooling Cap.	Average Coverage Area	Voltage	NEMA Plug Configuration	H	W	D	Heating Cap.	Mfr. Model	Item No.
Cooling Only									
6,300 BtuH	150 to 250 sq ft	115V AC	LCDI, 5-15P	17 ⅝ in	22 ⅜ in	12 in	—	5WK07BEA1AAA0	**4PKP3**
10,800 BtuH	400 to 450 sq ft	115V AC	LCDI, 5-15P	31 ½ in	25 in	10 ¼ in	—	5WK14BEA1AAA0	**4PKP4**
16,100 BtuH	550 to 700 sq ft	230V AC	LCDI, 6-15P	28 ¾ in	36 in	12 ¼ in	—	5WK18BGA1AAA0	**4PKP5**
23,000 BtuH	1,200 to 1,400 sq ft	230V AC	LCDI, 6-15P	28 ¾ in	36 in	12 ¼ in	—	5WK26BGA1AAA0	**4PKP7**
Cooling/Heating, Heat Pump									
7,000 BtuH	250 to 300 sq ft	115V AC	LCDI, 5-15P	17 ⅝ in	22 ⅜ in	12 in	7,800	5WK07BEA1AAH0	**4PKP9**
10,800 BtuH	400 to 450 sq ft	115V AC	LCDI, 5-15P	31 ½ in	25 in	10 ¼ in	12,000	5WK14BEA1AAH0	**4PKR1**
19,100 BtuH	700 to 1,000 sq ft	230V AC	LCDI, 6-15P	28 ¾ in	36 in	12 ¼ in	18,000	5WK18BGA1AAH0	**4PKR2**
27,300 BtuH	1,400 to 1,500 sq ft	230V AC	LCDI, 6-15P	28 ¾ in	36 in	12 ¼ in	26,000	5WK26BGA1AAH0	**4PKR4**

Heavy-Duty Portable Air Conditioners

MOVINCOOL The #1 Spot Cooling Solution

- Air-cooled vented
- Self-contained units are easy to install and operate

Provide cool, dehumidified air for cooling people, processes, and equipment. They're commonly used to cool assembly lines and critical processes.

Climate Pro K Series— Models are designed for heat-sensitive server rooms, hospitals, laboratories, schools, and stuffy offices. May be used for emergency backup and supplemental cooling applications.

Climate Pro X and Classic Series— Designed to spot cool warehouses, manufacturing plants, and outdoor events. Also suitable for process cooling and moisture removal.

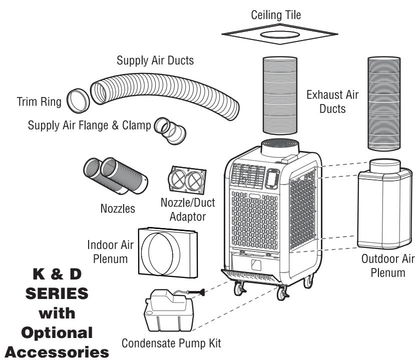
Climate Pro D Series (Heat Pump)— Portable heat pumps feature reversible operation to switch between cooling and heating modes for year-round climate control in moderate climates.

Climate Pro K60

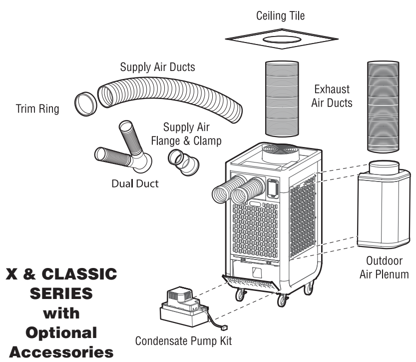
Climate Pro X14

Climate Pro D12

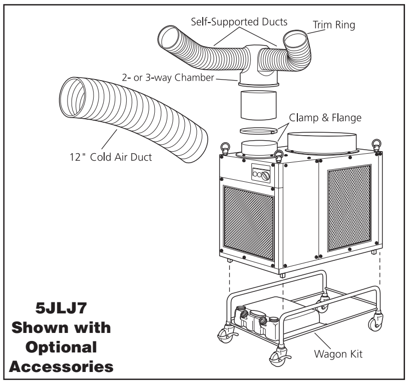
Cooling Cap.	Average Coverage Area	Phase	Voltage	NEMA Plug Configuration	W	D	H	Key Features	Heating Cap.	Mfr. Model	Item No.
Climate Pro K Series, 3 Speeds											
12,000 BtuH	450 to 550 sq ft	1	115V AC	LCDI, 5-15P	22"	27"	47"	Programmable	—	Climate Pro K12	**54ZV21**
16,800 BtuH	550 to 700 sq ft	1	115V AC	LCDI, 5-20P	22	27"	47"	Programmable	—	Climate Pro K18	**54ZV22**
24,000 BtuH	1,400 to 1,500 sq ft	1	208/230V AC	LCDI, 6-20P	22"	27"	51"	Programmable	—	Climate Pro K24	**54ZV23**
36,000 BtuH	2,000 to 2,500 sq ft	1	208/230V AC	LCDI, 6-30P	31"	55"	53"	Programmable	—	Climate Pro K36	**54ZV26**
60,000 BtuH	2,000 to 2,500 sq ft	1	208/230V AC	6-50P	31"	55"	64"	Built-in Condensate Pump, Programmable	—	Climate Pro K60	**54ZV27**
60,000 BtuH	2,000 to 2,500 sq ft	3	460V AC	L16-20P	31"	55"	64"	Built-in Condensate Pump, Programmable	—	Climate Pro K63	**54ZV28**
Climate Pro X Series, 3 Speeds											
13,200 BtuH	450 to 550 sq ft	1	115V AC	LCDI, 5-15P	22"	29"	48"	Programmable	—	Climate Pro X14	**54ZV24**
16,800 BtuH	550 to 700 sq ft	1	115V AC	LCDI, 5-20P	22"	29"	51"	Cellular Control, Programmable	—	Climate Pro X20	**54ZV31**
24,000 BtuH	1,400 to 1,500 sq ft	1	208/230V AC	LCDI, 6-20P	22"	29"	51"	Programmable	—	Climate Pro X26	**54ZV25**
Classic Series, 1 Speed											
39,000 BtuH	2,000 to 2,500 sq ft	3	220V AC	L15-30P	26"	44"	38"	Remote Control	—	CLASSIC 40	**5JLJ7**
Climate Pro D Series (Heat Pump), 3 Speeds											
10,200 BtuH	400 to 450 sq ft	1	115V AC	LCDI, 5-15P	22"	27"	47"	Cellular Control	10,000	Climate Pro D12	**54ZV29**
15,500 BtuH	550 to 700 sq ft	1	115V AC	LCDI, 5-20P	22"	27"	51"	Cellular Control	13,000	Climate Pro D18	**54ZV30**



K & D SERIES with Optional Accessories



X & CLASSIC SERIES with Optional Accessories



5JLJ7 Shown with Optional Accessories

Description	Mfr. Model	Item No.	54ZV21 K12	54ZV22 K18	54ZV23 K24	54ZV26 K36	54ZV27 54ZV28 K60/63	X SERIES* 54ZV24 X14	54ZV25 X26	54ZV31 X20	CLASSIC SERIES* 5JLJ7 C40	5JLJ8 C10	D SERIES* 54ZV29 D12	54ZV30 D18
Air Ducts, Adapters, and Trim Rings														
Accordion Exhaust Air Duct, 12 in Dia. x 10 ft L	LAY45771-0060	**5AE93**	●	●	●			●	●	●		●	●	●
Accordion Exhaust Air Duct Kit, 16 in Dia. x 25 ft L	LAY45820-0010	**1VK45**				●	●							
Accordion Supply Air Duct, 8 in Dia. x 25 ft L	LAY45810-0030	**1VK44**				●	●							
Dual Duct, 5 in Dia.	484209-0500	**55AC34**						●	●	●				
Duct Adapter	481769-0300	**55AC27**				●	●							
Self Supported Duct, 12 in Dia.	LA481744-0410	**55AC35**	●	●	●			●	●	●			●	●
Supply Air Self-Supported Duct, 5 in Dia.	LA481744-0420	**55AC32**	●	●	●			●	●	●			●	●
Trim Ring, 5" (Fits No. 5E358)	481851-0200	**5E360**	●	●	●			●	●	●		●	●	●
Trim Ring, 6" (Fits No. 5E359)	481851-0210	**5E361**				●	●				●			
Ceiling Tile Kits														
24 x 24" Ceiling Tile, 12" Dia.	LA146373-8280	**4YN24**	●	●	●			●	●	●		●	●	●
Ceiling Tile Kit, 12 in Dia.	484490-1030	**55AC36**	●	●	●			●	●	●			●	●
Ceiling Tile Kit, 16 in Dia.	484490-1040	**55AC37**				●	●							
Condensate Pump Kits														
Condensate Pump Kit, 115V AC	484789-0210	**55AC43**	●	●				●		●			●	●
Condensate Pump Kit, 230V AC	484789-0220	**55AC44**			●				●					
Nozzles and Adapters														
Nozzle Adapter Kit, 5" Dia.	481769-0280	**55AC25**	●	●	●								●	●
Nozzle Adapter Kit, 6" Dia.	481769-0290	**55AC26**				●	●							
Nozzle Kit, 5 in Dia.	484209-0480	**55AC28**	●	●	●								●	●
Nozzle Kit, 6 in Dia.	484209-0490	**55AC29**				●	●							
Plenums														
Indoor Air Plenum	484350-1210	**55AC47**					●							
Indoor Air Plenum	484350-1330	**55AC46**				●								
Outdoor Air Plenum	484350-1160	**55AC38**	●	●				●		●				
Outdoor Air Plenum	484350-1170	**55AC39**			●									
Outdoor Air Plenum	484350-1180	**55AC42**							●					
Outdoor Air Plenum	484350-1230	**55AC40**				●								
Outdoor Air Plenum	484350-1240	**55AC41**					●							
Supply Air Flanges														
Supply Air Flange Kit, 5 in Dia.	481170-0450	**55AC30**	●	●	●			●	●	●			●	●
Supply Air Flange Kit, 6 in Dia.	481170-0460	**55AC31**				●	●							

** For more accessories, go to Grainger.com and search: "movincool accessories".*

39E720

5DPW9

55JR29

40JJ48

6RJZ3

Portable Evaporative Coolers

Provide cool, humidified air in areas without combustible vapors, gases, or dust. They require regularly draining and cleaning the water tank and allowing the media to dry thoroughly between uses to prevent odors and clogging from sludge buildup.

Blade Dia.	Average Coverage Area	Air Flow	Water Cap.	Voltage	NEMA Plug Configuration	No. of Speeds	H	W	D	Brand	Mfr. Model	Item No.
11 ½ in	350 sq ft	700 cfm	6 gal	120V AC	5-15P	3	38 ½ in	19 ½ in	11 ½ in	Ultracool	CP70	**39E720**
15 in	2500 sq ft	2,040/3,020 cfm	24 gal	115V AC	5-15P	2	54 ½ in	33 ½ in	33 ½ in	WayCool	WCG-1HPMFAOSC	**5DPW9**
15 in	2500 sq ft	2,040/3,020 cfm	24 gal	115V AC	5-15P	2	54 ½ in	33 ½ in	33 ½ in	WayCool	WC-1HPMFAOSC	**5DPW8**
17 in	950 sq ft	3,100 cfm	10 gal	115V AC	5-15P	3	35 in	26 in	18 in	Hessaire	M150	**55JR28**
19 in	1600 sq ft	5,300 cfm	15 gal	115V AC	5-15P	3	42 in	31 in	19 in	Hessaire	M250	**55JR29**
24 in	2125 sq ft	9,000 cfm	55 gal	115V AC	5-15P	Variable	70 in	52 in	30 in	Portacool	PACJS2501A1	**40JJ47**
30 in	3000 sq ft	11,000 cfm	33 gal	115V AC	5-15P	3	59 in	46 in	26 in	Hessaire	MC92V	**55JR30**
36 in	3125 sq ft	12,500 cfm	60 gal	115V AC	5-15P	Variable	77 in	63 in	30 in	Portacool	PACJS2601A1	**40JJ48**
48 in	5625 sq ft	22,500 cfm	65 gal	115V AC	5-20P	Variable	90 in	78 in	36 in	Portacool	PACJS2701A1	**40JJ49**
Blower Wheel	700 sq ft	2,400 cfm	20 gal	115V AC	5-15P	Variable	42 in	29 in	27 in	Portacool	PACJS2201A1	**454G47**
Blower Wheel	900 sq ft	3,600 cfm	30 gal	115V AC	5-15P	Variable	50 in	29 in	27 in	Portacool	PACJS2301A1	**454G48**
Blower Wheel	1000 to 1400 sq ft	2,100/2,800 cfm	6.3 gal	120V AC	5-15P	2	32 in	22 in	22 in	Dayton	6RJZ4	**6RJZ4**
Blower Wheel	1000 to 1400 sq ft	2,376/3,800 cfm	10.4 gal	120V AC	5-15P	2	36 ⅜ in	28 ⅜ in	28 ⅜ in	Dayton	6RJZ3	**6RJZ3**

454G45

Hazardous Location Evaporative Coolers

- 115VAC
- 1 speed

Orange housing color. Sealed switches, cords, motors, and pumps prevent sparking. Rated for Class 1, Division 2 areas where flammable gases, vapors, and liquids are handled or used within enclosed containers or systems, but are not normally present in concentrations high enough to be ignitable. Commonly used in chemical plants, refineries, fuel depots, and garages. They require regularly draining and cleaning the water tank and allowing the media to dry thoroughly between uses to prevent odors and clogging from sludge buildup.

Blade Dia.	Average Coverage Area	Air Flow	Water Cap.	NEMA Plug Configuration	H	W	D	Mfr. Model	Item No.
36 in	3125 sq ft	12,500 cfm	45 gal	Hardwired	77 in	63 in	29 in	PACHZ260DAZ	**454G45**
48 in	5625 sq ft	22,500 cfm	65 gal	Hardwired	90 in	77 in	35 in	PACHZ270DAZ	**454G46**

54ZV17

43NN86

54ZV15

54ZV20

54ZV14

5DPX5

Portable Evaporative & Misting Cooler Accessories & Parts

Find more on Grainger.com by searching: portacool parts.

Item	For Use With	Includes	Mfr. Model	Item No.
Portacool				
Band	Mfr. No. PACHR3701F1	—	BELR0001	**54ZV10**
Caster Kit	Mfr. No. PACHR3601A1	(4) Casters, Hardware	PARCSTH360F0	**454G60**
	Mfr. No. PACJS2201A1, PACJS2301A1	—	PARPACCST310	**54ZV17**
	Mfr. No. PACJS2201A1, PACJS2301A1, PACJS2401A1	(4) Casters, Hardware	PARPACCST400	**454G57**
Drain Cap	All Portacool(R) Models	—	PARPACINJS006	**54ZV18**
Fan Assembly, Jetstream 240 Series, For use with PACJS2401A1	—	—	PARFANJ240F0	**43NN86**
Hard Water Treatment	Portacool Portable Evaporative Coolers	Four Applications per Box	PARPACHWTB00	**454G69**
Louver Kit	Mfr. No. PACJS2201A1	—	PARLVR000200	**54ZV15**
	Mfr. No. PACJS2301A1	—	PARLVR000300	**54ZV16**
Motor	Mfr. No. PACHR3601A1	—	PARMTRH3600A	**454G66**
Power Cord	Mfr. No. PAC163SV1A1, PAC163SVT, PACJS1600, PACJS2400, PACJS2401A1, PACJS2501A1, PACJS2601A1	—	PARPCD00220A	**54ZV20**
	Mfr. No. PACHR3701F1	—	PARPCD00010B	**54ZV19**
	Mfr. No. PACJS2701A1, PACHR3601A1	Powercord	PARPCD00110A	**454G70**
Protective Cover	Mfr. No. PACHR3601A1	—	PARCVRH36000	**54ZV12**
	Mfr. No. PACHR3701F1	Black Vinyl Protective Cover	PARCVRH37000	**49XN03**
	Mfr. No. PACJS2201A1	—	PARCVRJ22000	**54ZV13**
	Mfr. No. PACJS2301A1	—	PARCVRJ23000	**54ZV14**
	Mfr. No. PACJS2401A1	Black Vinyl Protective Cover	PARCVRJ24000	**49XN04**
	Mfr. No. PACJS2501A1	Black Vinyl Protective Cover	PARCVRJ25000	**49XN05**
	Mfr. No. PACJS2601A1	Black Vinyl Protective Cover	PARCVRJ26000	**49XN06**
	Mfr. No. PACJS2701A1	Black Vinyl Protective Cover	PARCVRJ27000	**49XN07**
Pulley	Mfr. No. PACHR3601A1	—	FAN-ACC-14	**54ZV11**
Pump	Mfr. No. PACCY110GA1, PACCY120GA1, PACCY130GA1	Pump	PARPMPCYC00A	**454G75**
Switch Set	Mfr. No. PAC2K482S, PAC2CYC04, PAC2KCYC01A., PACCYC02, PACCYC03	Control Panel, Hardware	CTRL-2SPD-01	**5PWU8**
WayCool				
Water Conditioner Tablet	Any Evaporative Cooler	(1) Tablet	WC-CTAB	**5DPX5**

POWER BREEZER

Portable Misting Coolers

- 85-gal. water capacity
- Oscillating head
- Integrated water tank

Circulate atomized water vapor that mixes with surrounding air to cool and humidify it. Coolers help regulate temperatures to protect workers from heat stress and reduce the risk of damage to machinery and products. They require no filters, no connection to ductwork, and have a large tank that supplies water for spot-cooling indoor production lines and warehouses or outdoor sporting events and festivals. Locking casters ease maneuverability from room to room. Optional ducting 55MU73 helps direct cooling mist to specific areas where it's needed.

788N80

55MU73
Ducting Only

Description	Blade Dia.	No. of Speeds	Cooling Cap.	Air Flow	Voltage	H	W	Std.	Mfr. Model	Item No.
Power Breezer Mach 4+	23 in	8	30,800 BtuH	@10 ft. 22 mph; @20 ft. 14 mph; @40 ft. 7 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4BASE	**788N80**
Power Breezer Max+	23 in	8	65,600 BtuH	@10 ft. 22 mph; @20 ft. 14 mph; @40 ft. 7 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4MAX	**788N81**
Power Breezer Titan	23 in	8	126,500 BtuH	@10 ft. 19 mph; @20 ft. 11 mph; @40 ft. 6 mph	110 V AC	73 ½ in	29 ⅝ in	ETL, MIL-STD 810H, NOM, OSHA	PB4TITAN	**788N79**

Description	Mfr. Model	Item No.
Ducting for Power Breezer Mach 4+	600-070-A	**55MU73**

PORTACOOL
WHEN COMFORT COUNTS

Residential/Commercial Evaporative Cooling Media

Replaces pads and panels in residential and commercial evaporative coolers. It's compatible with specific evaporative cooler brands and series for replacing media in portable, window, and ducted coolers. Find more evaporative cooling media on Grainger.com.

H	W	D	Replaces Part No.	Mfr. Model	Item No.
Portacool, Kraft Paper					
23 in	40 in	8 in	Adobe PM-100	PAD100	**4YC43**
23 in	40 in	12 in	Adobe PM-120	PAD120	**4YC17**
28 in	40 in	8 in	Adobe PM-200	PAD200	**4YC32**
28 in	40 in	12 in	Adobe PM-220	PAD220	**4YC18**
29 ⅛ in	41 ¼ in	8 in	Champion/Essick AUA70 ADA70/ASA70 S1700-S/D	PAD804	**4YC39**
29 ¾ in	40 in	8 in	Phoenix Aerocool 5-4-44	PAD444	**4YC35**
30 ¾ in	36 in	4 in	Champion/Essick PRCN 8600 PRCN 7000 PRCN 6600	PAD401	**4YC22**
36 ⅝ in	44 ¼ in	8 in	Champion/Essick AS/AD 100B	PAD807	**4YC41**
36 ⅝ in	44 ¼ in	12 in	Champion/Essick AS/AD 10012B	PAD123	**4YC15**
44 ½ in	48 in	8 in	Industrial M/C PM-400	PAD400	**4YC19**
44 ½ in	48 in	12 in	Industrial M/C PM-500	PAD500	**4YC20**
46 ⅜ in	48 in	8 in	Champion/Essick AS/AD 150B	PAD808	**4YC42**
46 ⅜ in	48 in	12 in	Champion/Essick AS/AD 15012B	PAD124	**4YC16**
Approved Vendor, Kraft Paper					
23 in	40 in	8 in	Adobe PM-100	4KAZ5	**4KAZ5**
23 in	40 in	12 in	Adobe PM-120	4KAZ7	**4KAZ7**
28 in	40 in	8 in	Adobe PM-200	4KAZ6	**4KAZ6**
28 in	40 in	12 in	Adobe PM-220	4KAZ8	**4KAZ8**
29 ⅛ in	41 ¼ in	8 in	Champion/Essick AUA70 ADA70/ASA70 S1700-S/D	4KAY9	**4KAY9**
29 ¾ in	40 in	8 in	Phoenix Aerocool 5-4-44	4KCA2	**4KCA2**
30 ¾ in	36 in	4 in	Champion/Essick PRCN 8600 PRCN 7000 PRCN 6600	4KAY8	**4KAY8**
36 ⅝ in	44 ¼ in	8 in	Champion/Essick AS/AD 100B	4KAZ1	**4KAZ1**
44 ½ in	48 in	8 in	Industrial M/C PM-400	4KAZ9	**4KAZ9**
44 ½ in	48 in	12 in	Industrial M/C PM-500	4KCA1	**4KCA1**
46 ⅜ in	48 in	8 in	Champion/Essick AS/AD 150B	4KAZ3	**4KAZ3**
46 ⅜ in	48 in	12 in	Champion/Essick AS/AD 15012B	4KAZ4	**4KAZ4**

H	W	D	Replaces Part No.	For Use With	Mfr. Model	Item No.
Portacool OEM Replacement Media, Kraft Paper						
20 in	13 in	13 in	Portacool PAC2K24	Mfr. No. PACJS2201A1	PARKULJ22000	**454G53**
20 in	13 in	13 in	Portacool PAC2K24	Mfr. No. PACJS2301A1	PARKULJ23000	**454G54**
24 in	6 in	12 in	Portacool PARKULJ24000	Mfr. No. PACJS2401A1	PARKULJ24000	**49XN09**
36 in	12 in	6 in	Portacool PARKULJ25000	Mfr. No. PACJS2501A1	PARKULJ25000	**49XN10**
48 in	12 in	6 in	Portacool PARKULJ26000	Mfr. No. PACJS260, PAC2K361S, PAC2K363S, PAC2K36HPVS	PARKULJ26000	**49XN11**
60 in	12 in	6 in	Portacool PARKULJ27000	Mfr. No. PACJS2701A1	PARKULJ27000	**49XN12** *
61 in	13 in	19 in	Portacool PARKULH37000	Mfr. No. PACHR3701F1	PARKULH37000	**49XN08**

** Package of 6.*

4YC43

4KAY8

PORTACOOL
WHEN COMFORT COUNTS

Agriculture/ Horticulture Evaporative Cooling Media

- Kraft paper

Agriculture and horticulture evaporative cooling media provides a long life in harsh environments. These evaporative pads are commonly used in greenhouses, swine and dairy barns, and poultry houses.

			PORTACOOL			APPROVED VENDOR		
H	W	D	Mfr. Model	Item No.	Pkg. Qty.	Mfr. Model	Item No.	Pkg. Qty.
36 in	12 in	6 in	KUV061236K00C	**55ZZ33**	5	—	**4KCA9**	5
36 in	12 in	6 in	KUV061236KD1A	**55ZZ34** *	32	—	**4KCC1** *	1
48 in	12 in	4 in	KUV041248MD1A	**55ZZ30** *	24	—	**4KCC6**	5
48 in	12 in	4 in	—	**—**	—	—	**4KCC7** *	1
48 in	12 in	6 in	KUV061248KD1A	**55ZZ35** *	16	—	**4KCA7**	5
48 in	12 in	6 in	—	**—**	—	—	**4KCA8** *	1
60 in	12 in	2 in	KUV021260M00E	**55ZZ28**	6	—	**4KCC8**	5
60 in	12 in	2 in	KUV021260MD1A	**55ZZ29** *	48	—	**4KCC9** *	1
60 in	12 in	4 in	KUV041260MD1A	**55ZZ31** *	24	—	**4KCC4**	5
60 in	12 in	4 in	—	**—**	—	—	**4KCC5** *	1
60 in	12 in	6 in	KUV061260KD1A	**55ZZ37** *	16	—	**4KCA6** *	1
60 in	12 in	6 in	KUV061260K00C	**55ZZ36**	5	—	**4KCA5**	5
72 in	12 in	4 in	KUV041272MD1A	**55ZZ32** *	24	—	**4KCC2**	5
72 in	12 in	6 in	KUV061272K00C	**55ZZ38**	5	—	**4KCA4** *	1
72 in	12 in	6 in	KUV061272KD1A	**55ZZ39** *	16	—	**4KCA3**	5

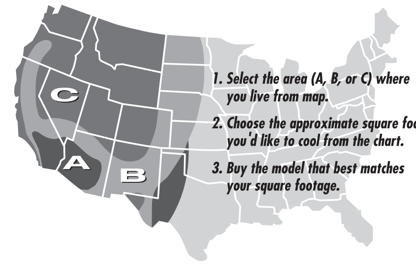
** Black edge coating.*

4KCC1

55ZZ38

Selecting the Right Size Cooler

Evaporative cooling for residential use is typically limited to lower humidity areas and works best when the dew point is less than 50°F. Coolers are up to 75% more economical than refrigerated air conditioning, making them an ideal source of cooling in western and southwestern regions of the U.S.



1. Select the area (A, B, or C) where you live from map.

2. Choose the approximate square footage you'd like to cool from the chart.

3. Buy the model that best matches your square footage.

Coolers can be used across the U.S. to filter intake air in laundries. They are also excellent in makeup air applications in every state, and they are commonly used in agricultural and greenhouse operations.

Note: Square footages are 8-ft. ceiling heights and are approximations only. Assume an 80°F desired room temp. Since cooling requirements can vary, contact your salesperson if additional information is needed

Ind. Std. Rating*	Item No.	Motor HP	Approximate Square Footage Cooled† A	B	C
6500	4RNP6/4RNP7/2YAE6/2YAE7	1	2200	2400	2600
6500	4RNR1/4RNR2/2YAF1/2YAF2	1	1800	2000	2200
6500	4RNN9/4RNP3/2YAD9/2YAE3	¾	1600	1800	2000
4800	4RNP8/4RNP9/2YAE8/2YAE9	¾	1400	1600	1800
4800	4RNR3/4RNR4/2YAF3/2YAF4	¾	1200	1400	1600
4500	4RNP1/4RNP4/2YAE1/2YAE4	½	1200	1400	1600
5000	4RNN6/2YAD5	½	1100	1300	1500
4500	2YAD6	⅓	1000	1200	1400
4000	4RNN7/2YAD7	⅓	900	1100	1300
3000	4RNP2/4RNP5/2YAE2/2YAE5	⅓	800	1000	1200
3000	4RNN8/2YAD8	⅛	500	600	700

***** *Ind. Std. Rating is a numerical rating for comparing similar models and sizing purposes. † Static pressures, vaulted ceiling, heat load, etc., can dramatically reduce the approximate square footage cooled in this chart.*

ESSICK AIR · Dayton

Multiple-Inlet Residential Ducted Evaporative Coolers

Distribute cool air throughout a home. Units have multiple inlets to draw in air. Media fits at the inlets to provide a sufficient wet surface area for cooling warm air. Units are typically used to replace multiple-inlet coolers in older installations. 453D81 includes a thermostat. Find Residential Ducted Evaporative Cooler Accessories on Grainger.com.

2YAE5

Average Coverage Area	Air Flow	H	W	D	Brand	Item No.
Drive Package With Motor Not Included						
Down Discharge						
600 to 1100 sq ft	3,000 cfm	33 7⁄16 in	28 ⅛ in	28 ⅛ in	Essick Air	**2YAE2**
700 to 1200 sq ft	4,400 to 4,900 cfm	34 ½ in	34 ⅛ in	34 ⅛ in	Essick Air	**2YAE1**
1200 to 1600 sq ft	5,500 to 6,500 cfm	42 7⁄16 in	39 in	39 in	Essick Air	**2YAD9**
Side Discharge						
500 to 700 sq ft	3,000 cfm	33 7⁄16 in	28 ⅛ in	28 ⅛ in	Essick Air	**2YAE5**
700 to 1200 sq ft	4,100 to 4,600 cfm	34 ½ in	34 ⅛ in	34 ⅛ in	Essick Air	**2YAE4**
1200 to 1800 sq ft	5,500 to 6,500 cfm	42 7⁄16 in	39 in	39 in	Essick Air	**2YAE3**

Average Coverage Area	Air Flow	Pad Thickness	HP	H	W	D	Operating Weight	Brand	1 SPEED 115/230VAC Item No.	1 SPEED 115VAC Item No.	2 SPEED 115VAC Item No.	2 SPEED 120VAC Item No.	2 SPEED 230VAC Item No.
Drive Package With Motor Factory Installed													
Down Discharge													
1000 to 1400 sq ft	3,800 cfm	2 in	⅓ hp	28 ¼ in	28 in	28 in	173 lb	Dayton	—	—	—	**4RNP2**	—
1000 to 1400 sq ft	4,800 cfm	2 in	½ hp	35 ¼ in	34 in	34 in	249 lb	Dayton	—	—	—	**4RNP1**	—
1400 sq ft	6,800 cfm	2 in	¾ hp	42 ¼ in	37 in	37 in	295.4 lb	Dayton	—	—	—	**4RNN9**	—
1800 sq ft	3,150 to 3,970 cfm	4 in	¾ hp	30 ½ in	41 ¼ in	41 ¼ in	300 lb	Essick Air	—	—	**453D80**	—	—
1800 sq ft	3,150 to 3,970 cfm	4 in	¾ hp	30 ½ in	41 ¼ in	41 ¼ in	300 lb	Essick Air	—	—	**453D81**	—	—
Side Discharge													
1000 to 1400 sq ft	4,800 cfm	2 in	½ hp	35 ¼ in	34 in	34 in	262.4 lb	Dayton	—	—	—	**4RNP4**	—
1400 sq ft	3,800 cfm	2 in	⅓ hp	28 ¼ in	28 in	28 in	172 lb	Dayton	—	—	—	**4RNP5**	—
1400 sq ft	6,800 cfm	2 in	¾ hp	42 ¼ in	37 in	37 in	326.3 lb	Dayton	—	—	—	**4RNP3**	—
Drive Package With Motor Included, Requires Assembly													
Down Discharge													
600 to 1100 sq ft	3,000 cfm	2 in	⅓ hp	33 7⁄16 in	28 ⅛ in	28 ⅛ in	175 lb	Essick Air	—	**7AC45**	—	—	—
600 to 1100 sq ft	3,100 cfm	2 in	⅓ hp	33 7⁄16 in	28 ⅛ in	28 ⅛ in	175 lb	Essick Air	—	—	**7AC44**	—	—
1200 sq ft	4,400 cfm	2 in	⅓ hp	34 ½ in	34 ⅛ in	34 ⅛ in	233 lb	Essick Air	—	**7AC51**	**7AC50**	—	—
1200 sq ft	4,900 cfm	2 in	½ hp	34 ½ in	34 ⅛ in	34 ⅛ in	233 lb	Essick Air	**7AC46**	**7AC49**	**7AC48**	—	**7AC47**
1600 sq ft	5,500 cfm	2 in	½ hp	42 7⁄16 in	39 in	39 in	309 lb	Essick Air	**7AC52**	—	**7AC57**	—	**7AC56**
1600 sq ft	6,500 cfm	2 in	¾ hp	42 7⁄16 in	39 in	39 in	309 lb	Essick Air	—	**7AC55**	**7AC54**	—	**7AC53**
Side Discharge													
700 sq ft	3,000 cfm	2 in	⅓ hp	33 7⁄16 in	28 ⅛ in	28 ⅛ in	193 lb	Essick Air	—	**7AC30**	**7AC29**	—	—
1200 sq ft	4,100 cfm	2 in	⅓ hp	34 ½ in	34 ⅛ in	34 ⅛ in	269 lb	Essick Air	—	—	**7AC35**	—	—
1200 sq ft	4,600 cfm	2 in	½ hp	34 ½ in	34 ⅛ in	34 ⅛ in	269 lb	Essick Air	**7AC31**	**7AC34**	**7AC33**	—	**7AC32**
1800 sq ft	5,500 cfm	2 in	½ hp	42 7⁄16 in	39 in	39 in	357 lb	Essick Air	**7AC37**	**7AC43**	**7AC42**	—	**7AC41**
1800 sq ft	6,500 cfm	2 in	¾ hp	42 7⁄16 in	39 in	39 in	357 lb	Essick Air	—	**7AC40**	**7AC39**	—	**7AC38**

5FTT5

CHAMPION

Multiple-Inlet Commercial Ducted Evaporative Coolers

- 2" pad thickness

Multiple inlets create high cooling capacity for large buildings. Their slim media fits at the inlets to provide a sufficient wet surface area for cooling warm air drawn into the cooler. Units with drive motor package are 1-speed and include motor, pulley, pump, and float. Find Commercial Ducted Evaporative Cooler Accessories on Grainger.com.

Average Coverage Area	Air Flow	H	W	D	Item No.
Drive Package With Motor Not Included					
Down Discharge					
2000 to 4000 sq ft	7,500 to 8,500 cfm	53 ⅝ in	41 ¼ in	41 ¼ in	**5FTT6**
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 ¼ in	62 in	62 in	**5FTT4**
Side Discharge					
2000 to 4000 sq ft	7,500 to 8,500 cfm	53 ⅝ in	41 ¼ in	41 ¼ in	**5FTT7**
4000 to 10,000 sq ft	14,000 to 21,000 cfm	61 ¼ in	62 in	62 in	**5FTT5**

Average Coverage Area	Air Flow	HP	Pump Voltage	H	W	D	Operating Weight	3-PHASE 208-230/460V AC Item No.	1-PHASE 115/208-230V AC Item No.
Drive Package With Motor Included, Requires Assembly									
Down Discharge									
4000 sq ft	7,500 cfm	¾ hp	115	53 ⅝ in	41 ¼ in	41 ¼ in	398 lb	**7K590**	**7K588**
	7,500 cfm	¾ hp	230	53 ⅝ in	41 ¼ in	41 ¼ in	398 lb	**7K591**	**7K589**
	8,500 cfm	1 hp	115	53 ⅝ in	41 ¼ in	41 ¼ in	403 lb	—	**7K592**
	8,500 cfm	1 hp	230	53 ⅝ in	41 ¼ in	41 ¼ in	403 lb	—	**7K593**
10,000 sq ft	16,000 cfm	2 hp	115	61 ¼ in	62 in	62 in	940 lb	**7K576**	—
	16,000 cfm	2 hp	230	61 ¼ in	62 in	62 in	940 lb	**7K577**	—
	18,000 cfm	3 hp	115	61 ¼ in	62 in	62 in	979 lb	**7K578**	—
	18,000 cfm	3 hp	230	61 ¼ in	62 in	62 in	979 lb	**7K579**	—
	21,000 cfm	5 hp	115	61 ¼ in	62 in	62 in	983 lb	**7K580**	—
	21,000 cfm	5 hp	230	61 ¼ in	62 in	62 in	983 lb	**7K581**	—
Side Discharge									
4000 sq ft	7,500 cfm	¾ hp	115	53 ⅝ in	41 ¼ in	41 ¼ in	451 lb	**7K596**	**7K594**
	7,500 cfm	¾ hp	230	53 ⅝ in	41 ¼ in	41 ¼ in	451 lb	**7K597**	**7K595**
	8,500 cfm	1 hp	115	53 ⅝ in	41 ¼ in	41 ¼ in	455 lb	—	**7K598**
	8,500 cfm	1 hp	230	53 ⅝ in	41 ¼ in	41 ¼ in	455 lb	—	**7K599**
10,000 sq ft	16,000 cfm	2 hp	115	61 ¼ in	62 in	62 in	1044 lb	**7K582**	—
	16,000 cfm	2 hp	230	61 ¼ in	62 in	62 in	1044 lb	**7K583**	—
	18,000 cfm	3 hp	115	61 ¼ in	62 in	62 in	1083 lb	**7K584**	—
	18,000 cfm	3 hp	230	61 ¼ in	62 in	62 in	1083 lb	**7K585**	—
	21,000 cfm	5 hp	115	61 ¼ in	62 in	62 in	1087 lb	**7K586**	—
	21,000 cfm	5 hp	230	61 ¼ in	62 in	62 in	1087 lb	**7K587**	—

MasterCool Dayton

Single-Inlet Residential Ducted Evaporative Coolers

Hold thicker media than multiple-inlet coolers, which increases contact time with the warm input air for more thorough evaporation. These coolers are used in new installations and as replacements for existing single-inlet coolers. Find Residential Ducted Evaporative Cooler Accessories on Grainger.com.

2YAE9

Average Coverage Area	Air Flow	Pad Thickness	H	W	D	Brand	Item No.
Drive Package With Motor Not Included							
Down Discharge							
1600 sq ft	4,000 to 5,000 cfm	8 in	28 in	42 in	45 in	Mastercool	**2YAF3**
1600 sq ft	4,000 to 5,000 cfm	12 in	28 in	42 in	49 in	Mastercool	**2YAE8**
2200 sq ft	5,400 to 7,000 cfm	8 in	34 ⅝ in	42 in	48 in	Mastercool	**2YAF1**
2200 sq ft	5,400 to 7,000 cfm	12 in	34 ⅝ in	42 in	52 in	Mastercool	**2YAE6**
Side Discharge							
1600 sq ft	4,000 to 5,000 cfm	8 in	28 in	42 in	45 in	Mastercool	**2YAF4**
1600 sq ft	4,000 to 5,000 cfm	12 in	28 in	42 in	49 in	Mastercool	**2YAE9**
2200 sq ft	5,400 to 7,000 cfm	8 in	34 ⅝ in	42 in	48 in	Mastercool	**2YAF2**
2200 sq ft	5,400 to 7,000 cfm	12 in	34 ⅝ in	42 in	52 in	Mastercool	**2YAE7**

Average Coverage Area	Air Flow	Pad Thickness	HP	H	W	D	Operating Weight	Brand	1 SPEED 115/230VAC Item No.	1 SPEED 115VAC Item No.	2 SPEED 115VAC Item No.	2 SPEED 120VAC Item No.	2 SPEED 230VAC Item No.
Drive Package With Motor Factory Installed													
Down Discharge													
1000 to 1400 sq ft	4,800 cfm	12 in	¾ hp	27 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP8**	—
1400 sq ft	6,800 cfm	8 in	1 hp	32 ¼ in	42 in	43 in	260.1 lb	Dayton	—	—	—	**4RNR1**	—
1400 sq ft	6,800 cfm	12 in	1 hp	32 ¼ in	42 in	47 in	299.3 lb	Dayton	—	—	—	**4RNP6**	—
1800 sq ft	5,000 cfm	8 in	¾ hp	28 in	42 in	45 in	233 lb	Mastercool	—	—	**19R761**	—	—
1800 sq ft	5,000 cfm	12 in	¾ hp	28 in	42 in	49 in	263 lb	Mastercool	—	—	**19R760**	—	—
2300 sq ft	7,000 cfm	8 in	1 hp	34 ⅝ in	42 in	48 in	269 lb	Mastercool	—	—	**19R758**	—	—
2300 sq ft	7,000 cfm	12 in	1 hp	34 ⅝ in	42 in	52 in	306 lb	Mastercool	—	—	**19R759**	—	—
Side Discharge													
1000 to 1400 sq ft	4,800 cfm	12 in	¾ hp	27 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP9**	—
1400 sq ft	6,800 cfm	8 in	1 hp	32 ¼ in	42 in	43 in	260.1 lb	Dayton	—	—	—	**4RNR2**	—
1400 sq ft	6,800 cfm	12 in	1 hp	32 ¼ in	42 in	47 in	260.1 lb	Dayton	—	—	—	**4RNP7**	—
1800 sq ft	5,000 cfm	8 in	¾ hp	28 in	42 in	45 in	233 lb	Mastercool	—	—	**19R765**	—	—
1800 sq ft	5,000 cfm	12 in	¾ hp	28 in	42 in	49 in	263 lb	Mastercool	—	—	**19R764**	—	—
2300 sq ft	7,000 cfm	8 in	1 hp	34 ⅝ in	42 in	48 in	269 lb	Mastercool	—	—	**19R763**	—	—
2300 sq ft	7,000 cfm	12 in	1 hp	34 ⅝ in	42 in	52 in	306 lb	Mastercool	—	—	**19R762**	—	—
Drive Package With Motor Included, Requires Assembly													
Down Discharge													
1600 sq ft	4,000 cfm	8 in	⅓ hp	28 in	42 in	45 in	227 lb	Mastercool	—	**7AA70**	**7AA69**	—	—
1600 sq ft	4,000 cfm	12 in	⅓ hp	28 in	42 in	49 in	257 lb	Mastercool	—	**7AC08**	**7AC07**	—	—
1600 sq ft	4,400 cfm	8 in	½ hp	28 in	42 in	45 in	227 lb	Mastercool	**7AA62**	**7AA68**	**7AA67**	—	**7AA66**
1600 sq ft	4,400 cfm	12 in	½ hp	28 in	42 in	49 in	257 lb	Mastercool	**7AC00**	**7AC06**	**7AC05**	—	**7AC04**
1600 sq ft	5,000 cfm	8 in	¾ hp	28 in	42 in	45 in	227 lb	Mastercool	—	**7AA65**	**7AA64**	—	**7AA63**
1600 sq ft	5,000 cfm	12 in	¾ hp	28 in	42 in	49 in	257 lb	Mastercool	—	**7AC03**	**7AC02**	—	**7AC01**
2200 sq ft	5,400 cfm	8 in	½ hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	**7AA81**	**7AA90**	**7AA89**	—	**7AA88**
2200 sq ft	5,400 cfm	12 in	½ hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	**7AC19**	**7AC28**	**7AC27**	—	**7AC26**
2200 sq ft	6,000 cfm	8 in	¾ hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	—	**7AA87**	**7AA86**	—	**7AA85**
2200 sq ft	6,000 cfm	12 in	¾ hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	—	**7AC25**	**7AC24**	—	**7AC23**
2200 sq ft	7,000 cfm	8 in	1 hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	**7AA82**	—	**7AA83**	—	**7AA84**
2200 sq ft	7,000 cfm	12 in	1 hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	**7AC20**	—	**7AC21**	—	**7AC22**
Side Discharge													
1600 sq ft	4,000 cfm	8 in	⅓ hp	28 in	42 in	45 in	227 lb	Mastercool	—	**7AA61**	**7AA60**	—	—
1600 sq ft	4,000 cfm	12 in	⅓ hp	28 in	42 in	49 in	257 lb	Mastercool	—	**7AA99**	**7AA98**	—	—
1600 sq ft	4,000 cfm	12 in	½ hp	28 in	42 in	49 in	257 lb	Mastercool	**7AA91**	**7AA97**	**7AA96**	—	**7AA95**
1600 sq ft	4,400 cfm	8 in	½ hp	28 in	42 in	45 in	227 lb	Mastercool	**7AA53**	**7AA59**	**7AA58**	—	**7AA57**
1600 sq ft	4,400 cfm	8 in	¾ hp	28 in	42 in	45 in	227 lb	Mastercool	—	**7AA56**	**7AA55**	—	**7AA54**
1600 sq ft	4,400 cfm	12 in	¾ hp	28 in	42 in	49 in	257 lb	Mastercool	—	**7AA94**	**7AA93**	—	**7AA92**
2200 sq ft	5,400 cfm	8 in	½ hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	**7AA71**	**7AA80**	**7AA79**	—	**7AA78**
2200 sq ft	5,400 cfm	12 in	½ hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	**7AC09**	**7AC18**	**7AC17**	—	**7AC16**
2200 sq ft	6,000 cfm	8 in	¾ hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	—	**7AA77**	**7AA76**	—	**7AA75**
2200 sq ft	6,000 cfm	12 in	¾ hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	—	**7AC15**	**7AC14**	—	**7AC13**
2200 sq ft	7,000 cfm	8 in	1 hp	34 ⅝ in	42 in	48 in	263 lb	Mastercool	**7AA72**	—	**7AA73**	—	**7AA74**
2200 sq ft	7,000 cfm	12 in	1 hp	34 ⅝ in	42 in	52 in	300 lb	Mastercool	**7AC10**	—	**7AC11**	—	**7AC12**

EssickAir Champion MasterCool Dayton

Window Evaporative Coolers

- 2" pad thickness

Units pull in warm outdoor air, pass it through wet media to remove heat, and blow out the cooled air. At the end of the cooling season, these coolers can be drained and their media can be dried out for long-term storage. Units require no connection to ductwork, sheet metal cutting, or grille assembly.

49LW87

35LX47

Average Coverage Area	Air Flow	HP	Evaporative Cooler Voltage	Water Cap.	No. of Speeds	H	W	D	Operating Weight	Brand	Mfr. Model	Item No.
Window Evaporative Coolers												
400 to 600 sq ft	2,800 cfm	⅛ hp	115V AC	3.6 gal	2	24 in	27 in	17 in	105 lb	Essick Air	N28W	**2YAD8**
600 to 1100 sq ft	4,000 cfm	⅓ hp	115V AC	11.0 gal	2	34 ½ in	34 ⅛ in	41 ⅛ in	214 lb	Champion	RWC44	**55ET79**
1000 sq ft	4,800 cfm	½ hp	115V AC	15.0 gal	2	35 ¼ in	34 in	43 ½ in	262.4 lb	Dayton	4RNN6	**4RNN6**
1000 to 1400 sq ft	2,800 cfm	⅛ hp	120V AC	6.3 gal	2	27 in	22 in	31 in	95.9 lb	Dayton	4RNN8	**4RNN8**
1000 to 1400 sq ft	3,800 cfm	⅓ hp	115V AC	10.4 gal	2	28 ¼ in	28 ¼ in	38 3⁄16 in	180.8 lb	Dayton	4RNN7	**4RNN7**
1200 to 1600 sq ft	4,700 cfm	½ hp	115V AC	9.3 gal	2	34 ½ in	34 ⅛ in	34 ⅛ in	249 lb	Essick Air	RN50W	**2YAD5**
1400 sq ft	4,200 cfm	⅓ hp	115V AC	13.5 gal	2	34 ½ in	34 ⅛ in	34 ⅛ in	246 lb	Essick Air	RN46W	**54XH55**
1600 sq ft	3,200 cfm	⅓ hp	115V AC	2.0 gal	3	46 ⅛ in	33 ⅝ in	22 ⅛ in	115.05	Mastercool	MCP44	**39E721**
2000 sq ft	4,000 cfm	½ hp	115V AC	2.0 gal	3	46 ⅛ in	33 ⅝ in	22 ⅛ in	100 lb	Mastercool	MCP59	**49LW87**

Item	For Use With	Includes	Item No.
Accessories			
Grille Cover	MCP44, MCP44E, MCP59, WPL44, WPL44NP	—	**35LX49**
Protective Cover	MCP44E, MCP59, Mfr. No.	—	**35LX48**
Purge Pump Kit	MCP44, WPL44, WPL44NP	Hose Kit, Instruction Sheet, Pump, Pump Bracket, Screw or Mount Bracket	**35LX47**

For Ice Machine Repair Parts, see page 1461.

458J84

458K09

458K22

458K32

Manitowoc

Commercial Ice Machines, Bins, and Dispensers

- Gourmet: hard, clear, 8-sided 1⅜" cubes
- Dice: hard, clear, rhomboid ⅞" cube; 48 cubes/lb.
- Half-dice: hard, clear, rhomboid cube, ⅜" x 1⅛" x ⅞"; 96 cubes/lb.
- Nugget: soft, chewable ³⁄₁₀" x ³⁄₁₀" x ½" cubes dispense without hand scooping; slow to melt, less drink dilution

Stainless finish with clear coating provides superior corrosion resistance and resists fingerprints and dirt. 458J99 to 458K74 are ENERGY STAR qualified. Repair parts are available on Grainger.com.

Ice Machines, Built-In Undercounter—Compact machines for small-volume ice production.

458J81 is designed for boardrooms, conference rooms, or business lunch areas. Built-in or freestanding capability. Features multifunction control panel with delay, integral filtration, and oversize, lighted bin opening.

Other models are sized for coffee shops, stadium boxes, break areas, or areas with limited floor space or height.

Ice Machines, Modular Heads, High Capacity—Ideal for movie theaters and other high-volume applications. Programmable ice production with continuous diagnostics keep ice stocked and machine operational. 24-hr. maintenance and diagnostic feedback on easy-read, blue display. Food zone is easy to clean.

- On/Off time or ice volume programs
- Fit on top of Ice Storage Bins (sold separately)

Stationary Ice Storage Bins—Convenient stay-open design keeps bin door out of the way. Soft trim around opening helps silence door closing. Internal scoop holder is above ice line for easy access and better sanitation.

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Machine, Built-In Undercounter, Office Use									
53 lb	25 lb	Gourmet	Air	115V	33 ½ in	14 ¾ in	22 ¾ in	SM50A-161	**458J81**
Ice Machines, Built-In Undercounter									
60 lb	30 lb	Dice	Air	115V	36 in	19 11/16 in	22 11/32 in	UDE0065A-161	**458J82**
95 lb	30 lb	Dice	Air	115V	36 in	19 11/16 in	22 11/32 in	UDE0080A-161	**458J83**
132 lb	90 lb	Dice	Air	115V	38 ½ in	26 in	28 in	UDF0140A-161	**458J84**
	90 lb	Half Dice	Air	115V	38 ½ in	26 in	28 in	UYF0140A-161	**458J85**
198 lb	90 lb	Dice	Air	115V	38 ½ in	26 in	28 in	UDF0190A-161	**458J86**
	90 lb	Half Dice	Air	115V	38 ½ in	26 in	28 in	UYF0190A-161	**458J87**
225 lb	80 lb	Dice	Air	115V	38 39/64 in	26 in	28 in	UDF0240A-161	**458J88**
	80 lb	Dice	Water	115V	38 45/64 in	26 in	28 in	UDF0240W-161	**458J89**
	80 lb	Half Dice	Air	115V	38 13/16 in	26 in	28 in	UYF0240A-161	**458J90**
	80 lb	Half Dice	Water	115V	38 ½ in	26 in	28 in	UYF0240W-161	**458J91**
304 lb	100 lb	Dice	Air	115V	38 ½ in	30 in	28 in	UDF0310A-161	**458J92**
	100 lb	Dice	Water	115V	38 ½ in	30 in	28 in	UDF0310W-161	**458J93**
	100 lb	Half Dice	Air	115V	38 ½ in	30 in	28 in	UYF0310A-161	**458J94**
	100 lb	Half Dice	Water	115V	38 ½ in	30 in	28 in	UYF0310W-161	**458J95**
Ice Machines, Modular Heads, High Capacity									
310 lb	—	Dice	Air	115V	16 ½ in	30 in	24 ½ in	IDF0300A-161	**458J96**
	—	Dice	Water	115V	16 ½ in	30 in	24 ½ in	IDF0300W-161	**458J97**
	—	Half Dice	Air	115V	16 ½ in	30 in	24 ½ in	IYF0300A-161	**458J98**
	—	Half Dice	Water	115V	16 ½ in	30 in	24 ½ in	IYF0300W-161	**458J99**
430 lb	—	Dice	Water	115V	21 ½ in	30 in	24 in	IDT0450W-161	**458K10**
454 lb	—	Dice	Water	115V	21 ½ in	22 in	24 ½ in	IDT0420W-161	**458K02**
460 lb	—	Half Dice	Air	115V	21 ½ in	22 in	24 ½ in	IYT0420A-161	**458K03**
470 lb	—	Dice	Air	115V	21 ½ in	22 in	24 ½ in	IDT0420A-161	**458K01**
	—	Dice	Air	115V	21 ½ in	30 in	24 in	IDT0450A-161	**458K09**
	—	Half Dice	Water	115V	21 ½ in	30 in	24 in	IYT0450W-161	**458K12**
490 lb	—	Half Dice	Air	115V	21 ½ in	30 in	24 in	IYT0450A-161	**458K11**
	—	Half Dice	Water	115V	21 ½ in	22 in	24 ½ in	IYT0420W-161	**458K04**
530 lb	—	Dice	Water	115V	21 ½ in	22 in	24 ½ in	IDT0620W-161	**458K06**
560 lb	—	Dice	Air	115V	21 ½ in	22 in	24 ½ in	IDT0620A-161	**458K05**
	—	Half Dice	Water	115V	21 ½ in	22 in	24 ½ in	IYT0620W-161	**458K08**
575 lb	—	Half Dice	Air	115V	21 ½ in	22 in	24 ½ in	IYT0620A-161	**458K07**
632 lb	—	Dice	Air	208/230V	21 ½ in	30 in	24 ½ in	IDT0750A-261	**458K13**
635 lb	—	Half Dice	Air	208/230V	21 ½ in	30 in	24 ½ in	IYT0750A-261	**458K15**
661 lb	—	Dice	Water	208/230V	21 ½ in	30 in	24 ½ in	IDT0750W-261	**458K14**
700 lb	—	Half Dice	Water	208/230V	21 ½ in	30 in	24 ½ in	IYT0750W-261	**458K16**
839 lb	—	Dice	Water	208/230V	26 ½ in	30 in	24 ½ in	IDT0900W-261	**458K18**
874 lb	—	Dice	Air	208/230V	26 ½ in	30 in	24 ½ in	IDT0900A-261	**458K17**
879 lb	—	Half Dice	Water	208/230V	26 ½ in	30 in	24 ½ in	IYT0900W-261	**458K20**
901 lb	—	Half Dice	Air	208/230V	26 ½ in	30 in	24 ½ in	IYT0900A-261	**458K19**
1,800 lb	—	Dice	Air	208/230V	29 ½ in	48 in	24 in	IDT1500A-261	**458K67**
	—	Half Dice	Air	208/230V	29 ½ in	48 in	24 in	IYT1500A-261	**458K69**
1,870 lb	—	Dice	Water	208/230V	29 ½ in	48 in	24 in	IDT1900W-261	**458K72**
1,900 lb	—	Dice	Air	208/230V	29 ½ in	48 in	24 in	IDT1900A-261	**458K71**
	—	Half Dice	Air	208/230V	29 ½ in	48 in	24 in	IYT1900A-261	**458K73**
1,930 lb	—	Half Dice	Water	208/230V	29 ½ in	48 in	24 in	IYT1900W-261	**458K74**
Ice Dispenser, Ice Machine, Water Dispenser, Countertop									
261 lb	10 lb	Nugget	Air	115V	35 in	16 ¼ in	24 in	CNF0201A-161L	**458K21**
	20 lb	Nugget	Air	115V	42 in	16 ¼ in	24 in	CNF0202A-161L	**458K23**
Ice Dispenser, Ice Machine, Water Dispenser, Countertop, Touchless									
261 lb	10 lb	Nugget	Air	115V	35 in	16 ¼ in	24 in	CNF0201A-161	**458K22**
	20 lb	Nugget	Air	115V	42 in	16 ¼ in	24 in	CNF0202A-161	**458K24**
Ice Dispenser, Floor-Standing									
—	120 lb	Dice/Half Dice	—	115V	54 in	22 in	31 3/16 in	SPA-162-161	**458K27**
	180 lb	Dice/Half Dice	—	115V	60 ½ in	30 in	32 in	SPA-312-161	**458K28**
Ice Dispenser, Water Dispenser, Floor-Standing									
—	120 lb	Dice/Half Dice	—	115V	54 in	22 in	31 3/16 in	SFA-192-161	**458K25**
	180 lb	Dice/Half Dice	—	115V	60 ½ in	30 in	32 in	SFA-292-161	**458K26**
Stationary Ice Storage Bins (Includes Ice Scoop, Legs)									
—	264 lb	—	—	—	38 in	22 in	34 in	D320	**458K29**
	365 lb	—	—	—	38 in	30 in	34 in	D400	**458K30**
	383 lb	—	—	—	50 in	22 in	34 in	D420	**458K31**
	532 lb	—	—	—	50 in	30 in	34 in	D570	**458K32**
	882 lb	—	—	—	50 in	48 in	34 in	D970	**458K33**

Description	Microns	Flow Rate	Service Life	Cartridges Req.	Overall Height	Overall Width	Mfr. Model	Item No.
Ice Machine Quick Connect Filters								
Filter Cartridge For Use With Ice Machine	1	0.8 gpm	20,000 gal	—	13 in	3"	K-00374	**10L491**
Filter Cartridge For Use With Ice Machine	1	—	14,000 gal	—	15 ¼ in	6"	K-00338	**10L493**
Filter Cartridge For Use With Ice Machine	1	1.5 gpm	20,000 gal	—	21 21/64 in	6"	K-00339	**10L494**

SANI-LAV

Stainless Steel Ice Scoops

Heavy-duty, 18-ga., type 304 stainless steel construction for rust resistance and are fully welded to help ensure there are no spaces where particles can accumulate. Scoops are seamless with large radii to ease cleaning. 53RJ99 and 53RK02 have a 24"L handle to help extend reach. All scoops are suitable for use in beverage, food processing, and material handling applications. Meet NSF/ANSI Standard 2 for Food Equipment.

1YPC3

Cap. (oz.)	Handle Length (in.)	Std.	Item No.
8 oz	4 in	Certified NSF Standard 2 - Food Equipment	**1YPC3**
16 oz	4 in	Certified NSF Standard 2 - Food Equipment	**1YPC4**
32 oz	4 in	Certified NSF Standard 2 - Food Equipment	**1YPC5**
32 oz	24 in	—	**53RJ99**
64 oz	4 in	Certified NSF Standard 2 - Food Equipment	**1YPC6**
32 oz	24 in	—	**53RK02**

Scotsman
Ice Systems

Commercial Ice Machines, Bins, and Dispensers

- Gourmet cube: hard, clear, 1" x 1⅛" x 1¼"
- Small cube: hard, clear, rhomboid, ⅞" x ⅞" x ⅜"
- Medium cube: hard, clear, rhomboid, ⅞" x ⅞" x ⅞"

Stainless finish provides corrosion resistance and allows for easier cleaning. For repair parts, go to Grainger.com.

Note: ENERGY STAR qualified where noted.

Ice Makers, Built-In Undercounter—Compact units are designed for low volume, built-in applications. 36N972, 36N973, and 36N959 are designed for small office and board room applications. 36N973 includes an integrated condensate pump. The other undercounter models are designed for low volume applications as in coffee shops or larger break rooms.

Ice Makers, Modular Heads, High-Capacity—AutoAlert indicator lights for advanced diagnostics. Fits on top of ice storage bins, sold separately.

Ice Dispenser, Ice Machine, Water Dispenser, Countertop, Touchless—Touchfree ice and water dispensing makes these units perfect for healthcare and office applications. Legs not included. Equipment stands available for all models, sold separately on Grainger.com.

Ice Dispensers, Hotel, Floor-Standing—Simple push-to-dispense design and large sink depth accommodate almost any size ice bucket. Ideal for lodging and healthcare segments. Automatic fill from ice machine, sold separately.

Stationary Ice Storage Bins—Feature integrated scoop holder and removable ice baffle for easy cleaning. 36N920 and 36N921 are polyethylene construction. Bin adapter kits are sold separately on Grainger.com.

36N972

56ED80

36N990

36N986

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.	
Ice Makers, Built-In Undercounter, Small Application Use										
65 lb	26 lb	Gourmet	Air	115V	34 ⅜ in	14 ⅞ in	22 in	CU50GA-1	**36N972**	*
	26 lb	Gourmet	Air	115V	34 ⅜ in	14 ⅞ in	22 in	CU50PA-1	**36N973**	*
84 lb	24 lb	Gourmet	Air	115V	29 in	15 in	23 ⅝ in	CU0515GA-1	**36N959**	
Ice Makers, Built-In Self-Contained, Small Application Use										
58 lb	36 lb	Medium	Air	115V	38 in	15 in	24 in	CU0415MA-1	**20CA59**	
80 lb	36 lb	Medium	Air	115V	38 in	15 in	24 in	CU0715MA-1	**20CA61**	
100 lb	57 lb	Medium	Air	115V	38 in	20 in	24 in	CU0920MA-1	**20CA63**	
Ice Makers, Built-In Undercounter										
225 lb	80 lb	Dice	Air	115/120V	29 in	24 in	36 in	UC2024MA-1	**56ED80**	
	80 lb	Dice/Half Dice	Air	115/120V	29 in	24 in	36 in	UC2024SA-1	**56ED81**	
250 lb	110 lb	Medium	Air	115V	33 in	30 in	30 in	CU3030MA-1	**36N968**	
	110 lb	Small	Air	115V	33 in	30 in	30 in	CU3030SA-1	**36N970**	
288 lb	80 lb	Dice	Air	115/120V	29 in	24 in	36 in	UC2724MA-1	**56ED82**	
	80 lb	Dice/Half Dice	Air	115/120V	29 in	24 in	36 in	UC2724SA-1	**56ED83**	
310 lb	26 lb	Small	Water	115V	33 in	30 in	30 in	CU3030SW-1	**36N971**	
Ice Makers, Modular Heads, High-Capacity										
356 lb	—	Medium	Air	115V	23 in	22 in	24 in	C0322MA-1	**36N931**	
	—	Small	Air	115V	23 in	22 in	24 in	C0322SA-1	**36N933**	
366 lb	—	Small	Water	115V	23 in	22 in	24 in	C0322SW-1	**36N934**	
400 lb	—	Medium	Air	115V	23 in	30 in	24 in	C0330MA-1	**36N935**	
	—	Small	Air	115V	23 in	30 in	24 in	C0330SA-1	**36N937**	
420 lb	—	Medium	Water	115V	23 in	30 in	24 in	C0330MW-1	**36N936**	
	—	Small	Water	115V	23 in	30 in	24 in	C0330SW-1	**36N938**	
475 lb	—	Medium	Air	115V	23 in	22 in	24 in	C0522MA-1	**36N939**	
	—	Small	Air	115V	23 in	22 in	24 in	C0522SA-1	**36N941**	
500 lb	—	Small	Water	115V	23 in	30 in	24 in	C0530SW-1	**36N946**	
525 lb	—	Medium	Air	115V	23 in	30 in	24 in	C0530MA-1	**36N943**	
	—	Small	Air	115V	23 in	30 in	24 in	C0530SA-1	**36N945**	
549 lb	—	Medium	Water	115V	23 in	22 in	24 in	C0522MW-1	**36N940**	
	—	Small	Water	115V	23 in	22 in	24 in	C0522SW-1	**36N942**	
722 lb	—	Small	Water	208/230V	23 in	30 in	24 in	C0630SW-32	**36N950**	
776 lb	—	Medium	Air	208/230V	23 in	30 in	24 in	C0630MA-32	**36N947**	
	—	Small	Air	208/230V	23 in	30 in	24 in	C0630SA-32	**36N949**	
905 lb	—	Medium	Air	208/230V	29 in	30 in	24 in	C0830MA-32	**36N951**	
	—	Small	Air	208/230V	29 in	30 in	24 in	C0830SA-32	**36N953**	
924 lb	—	Small	Water	208/230V	29 in	30 in	24 in	C0830SW-32	**36N954**	
Ice Dispenser, Ice Machine, Water Dispenser, Countertop, Touchless										
260 lb	12 lb	Nugget	Air	115V	35 in	14 in	24 in	HID312A-1	**36N988**	
523 lb	26 lb	Nugget	Air	115V	41 in	26 in	23 in	HID525A-1	**36N990**	
	40 lb	Nugget	Air	115V	41 in	26 in	23 in	HID540A-1	**36N992**	
525 lb	26 lb	Nugget	Water	115V	41 in	26 in	23 in	HID525W-1	**36N991**	
	40 lb	Nugget	Water	115V	41 in	26 in	23 in	HID540W-1	**36N993**	
Ice Dispensers, Hotel, Floor-Standing										
—	120 lb	—	—	115V	53 in	22 in	33 in	HD22B-1	**36N985**	
	180 lb	—	—	115V	53 in	30 in	33 in	HD30B-1	**36N986**	
Stationary Ice Storage Bins (Includes Ice Scoop, Legs)										
—	370 lb	—	—	—	50 in	22 in	34 in	B322S	**36N919**	
	344 lb	—	—	—	37 in	30 in	34 in	B330P	**36N920**	
	536 lb	—	—	—	50 in	30 in	34 in	B530P	**36N921**	
	536 lb	—	—	—	50 in	30 in	34 in	B530S	**36N922**	
	778 lb	—	—	—	50 in	42 in	34 in	B842S	**36N923**	
	893 lb	—	—	—	50 in	48 in	34 in	B948S	**36N924**	

Description	Microns	Flow Rate	Service Life	Cartridges Req.	Overall Height	Overall Width	Mfr. Model	Item No.
Ice Machine Water Filters, SSM Plus								
Single System	0.5	1.7 gpm	9,000 gal	Mfr. No. SSM1-P, SCT-SSM1P, SSM1 P, SSM1P	30 ½ in	5 19/32 in	SSM1-P	**36P053**
Twin System	0.5	3.3 gpm	18,000 gal	—	29 ¼ in	16 19/32 in	SSM2-P	**36P054**
Ice Machine Water Filters, AquaPatrol								
Single System	10	2.1 gpm	9,000 gal	ADS AP1, ADSAP1, Mfr. No. ADS-AP1, SCT ADSAP1, SCT-ADSAP1, SCTADSAP1	25 ¼ in	5 19/32 in	AP1-P	**36P006**
Twin System	10	4.2 gpm	18,000 gal	ADS AP2, ADS-AP2, ADSAP2, Mfr. No. SCTADSAP2, SCT ADSAP2, SCT-ADSAP2	25 ¼ in	16 19/32 in	AP2-P	**36P007**
Ice Machine Replacement Cartridges								
SSM Plus	0.5	1.7 gpm	9,000 gal	—	20 in	—	EV961222	**36P056**
AquaPatrol	5	2 gpm	15,000 gal	—	15 in	—	APRC1-P	**36P009**
AquaBullet Anti Microbial Wand				—	—	—	ADS-AB6	**36P005**

Description	Mfr. Model	Item No.
Accessories		
Ice Level Control Kit, For Use With Icemakers	KVS	**36P046**
Bin Top Kit, For Use With All 30 in Modular Cubers	KBT29	**36P023**
Bin Top Kit, For Use With BH900, CME1056, CME506, CME656, CME806, Mfr. No. CME256	KBT22A	**36P018**
Ice Machine Stand Kit, For Use With HID540, Mfr. No. HID525	HST21-A	**36P011**
Ice Machine Cleaner, For Use With Scotsman Ice Makers, Pkg. of 12	19-0653-12	**38Y226**

** ENERGY STAR qualified.*

Find Ice Scoops, Ice Buckets, and Ice Totes on Grainger.com.

31XC32

31XC34

31XC25

31XC15

Commercial Ice Machines, Bins, and Dispensers

- Top Hat: for small business or residential use, ⅞" x 1"
- Cubelet: soft, chewable, ideal for healthcare or food service, ⅝" x ½" x ⅜"
- Crescent: hard, clear, 1⅛" x 1½" x ½"
- Flake: for therapeutic use in hospitals
- Square: for gourmet beverages, 1" x 1" x 1"

Ice machines have a stainless steel finish to resist corrosion and to ease cleaning. ENERGY STAR qualified where noted. Repair parts are available on Grainger.com.

Ice Makers, Undercounter—Compact units for lower volume ice output. 31XC32, 31XC33, 31XC85, and 31XC86 are ideal for residential use. Models can be freestanding or built-in, and have a field-reversible door. Compatible with optional Drain Pump 31XD01, for use where a floor drain is not accessible. Other models are sized for coffee shops, small businesses or restaurants.

Ice Makers, Modular Heads, High Capacity—31XC76 produces a full square cube with minuscule dimple; cubes melt slowly making them ideal for gourmet beverages. All machine heads are for use with storage bins, sold separately.

Ice Dispenser, Ice Machine, Water Dispenser, Countertop—Feature the CleanCycle 12 system that purges the dispenser of impurities every 12 hr. Reliable resin-based gear motor for long life.

Ice Dispenser—Floor standing units have simple push-button dispensing.

Ice Dispenser, Water Dispenser—Countertop unit has an innovative auger agitator design that dispenses individual cubes, and model can dispense water.

Stationary Ice Storage Bins—Feature H-Guard Plus antimicrobial and a removable baffle to ease cleaning. 31XC23 and 31XC24 feature a universal top kit.

Description	Microns	Flow Rate	Svc. Life (gal.)	Cartridges Req.	H (in.)	Dia. (in.)	Mfr. Model	Item No.
Ice Machine Water Filters								
Water Filter System	0.5	2 gpm	21,000	1	18 13/32	3¼	H9320-51	**31XC09**
Water Filter System	0.5	4 gpm	42,000	2	19 7/64	6½	H9320-52	**31XC10**
Quick Connect Filter, For Use With Incoming Water Supply	0.5	1.7 gpm	21,000	—	13¼	3¼	H9655-11	**31XC11**

Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Ice Makers, Undercounter, w/ Built-In Storage Bin, Office Use									
55 lb	22 lb	Top Hat	Air	115V	33 ½ in	14 ⅞ in	22 ⅝ in	AM-50BAJ	**31XC32**
	22 lb	Top Hat	Air	115V	31 ½ in	14 ⅞ in	22 ⅝ in	AM-50BAJ-AD	**31XC33**
92 lb	22 lb	Cubelet	Air	115V	33 ½ in	14 ⅞ in	22 ⅝ in	C-80BAJ	**31XC85** *
	22 lb	Cubelet	Air	115V	31 ½ in	14 ⅞ in	22 ⅝ in	C-80BAJ-AD	**31XC86** *
Ice Makers, Undercounter, w/ Built-In Storage Bin									
71 lb	38 lb	Crescent	Air	115V	39 in	17 ¾ in	24 in	KM-81BAJ	**31XC34** *
115 lb	53 lb	Crescent	Air	115V	39 in	23 ¾ in	24 in	KM-116BAJ	**31XC35** *
146 lb	78 lb	Crescent	Air	115V	39 in	23 ¾ in	28 in	KM-161BAJ	**31XC36** *
	78 lb	Crescent	Water	115V	39 in	23 ¾ in	28 in	KM-161BWJ	**31XC37**
201 lb	80 lb	Crescent	Air	115V	39 in	24 in	28 in	KM-231BAJ	**31XC38** *
263 lb	100 lb	Crescent	Air	115V	39 in	30 in	28 in	KM-301BAJ	**31XC40**
268 lb	100 lb	Crescent	Water	115V	39 in	30 in	28 in	KM-301BWJ	**31XC41**
303 lb	110 lb	Flake	Air	115V	39 in	36 in	24 in	F-300BAJ	**31XC78** *
320 lb	80 lb	Cubelet	Air	115V	39 in	24 in	26 in	F-330BAJ-C	**31XC87** *
330 lb	80 lb	Flake	Air	115V	39 in	24 in	26 in	F-330BAJ	**31XC77** *
500 lb	250 lb	Flake	Air	115V	42 in	38 in	29 in	F-500BAJ	**31XC79** *
Ice Makers, Modular Heads, High Capacity, For Use With Storage Bins									
307 lb	—	Crescent	Air	115V	22 in	30 in	27 ⅜ in	KML-325MAJ	**31XC42**
314 lb	—	Crescent	Water	115V	22 in	30 in	27 ⅜ in	KML-325MWJ	**31XC43**
325 lb	—	Crescent	Air	115V	30 5/16 in	22 in	27 ⅜ in	KM-350MAJ	**31XC44**
352 lb	—	Crescent	Water	115V	30 5/16 in	22 in	27 ⅜ in	KM-350MWJ	**31XC45**
401 lb	—	Crescent	Air	115V	22 in	30 in	27 ⅜ in	KML-500MAJ	**31XC50** *
429 lb	—	Crescent	Water	115V	22 in	30 in	27 ⅜ in	KML-500MWJ	**31XC51**
431 lb	—	Cubelet	Air	115V	21 ⅞ in	22 in	27 ⅜ in	F-450MAJ-C	**31XC88**
493 lb	—	Flake	Air	115V	21 ⅞ in	22 in	27 ⅜ in	F-450MAJ	**31XC80**
500 lb	—	Crescent	Air	115V	30 5/16 in	22 in	27 ⅜ in	KM-520MAJ	**31XC52**
	—	Crescent	Water	115V	30 5/16 in	22 in	27 ⅜ in	KM-520MWJ	**31XC53**
	—	Large Square	Air	115V	21 ¾ in	44 in	27 ⅝ in	IM-500SAB	**31XC76** *
575 lb	—	Crescent	Air	115V	26 in	30 in	27 ⅜ in	KML-700MAJ	**31XC54**
627 lb	—	Cubelet	Water	115/120V	25 15/16 in	22 in	27 ⅜ in	F-801MWJ-C	**31XC90**
632 lb	—	Crescent	Water	208/230V	26 in	30 in	27 ⅜ in	KML-700MWJ	**31XC55**
661 lb	—	Crescent	Water	208/230V	37 7/16 in	22 in	27 ⅜ in	KM-660MWJ	**31XC57**
663 lb	—	Flake	Water	115/120V	25 15/16 in	22 in	27 ⅜ in	F-801MWJ	**31XC82**
728 lb	—	Cubelet	Air	115/120V	25 15/16 in	22 in	27 ⅜ in	F-801MAJ-C	**31XC89**
790 lb	—	Cubelet	Water	115V	25 15/16 in	22 in	27 ⅜ in	F-1002MWJ-C	**31XC92**
795 lb	—	Flake	Air	115/120V	25 15/16 in	22 in	27 ⅜ in	F-801MAJ	**31XC81** *
860 lb	—	Cubelet	Air	208/230V	25 15/16 in	22 in	27 ⅜ in	F-1002MAJ-C	**31XC91**
874 lb	—	Crescent	Air	208/230V	37 7/16 in	30 in	27 ⅜ in	KM-901MAJ	**31XC60**
890 lb	—	Flake	Water	208/230V	25 15/16 in	22 in	27 ⅜ in	F-1002MWJ	**31XC84**
912 lb	—	Crescent	Water	208/230V	37 7/16 in	30 in	27 ⅜ in	KM-901MWJ	**31XC61**
970 lb	—	Flake	Air	208/230V	25 15/16 in	22 in	27 ⅜ in	F-1002MAJ	**31XC83** *
1,318 lb	—	Crescent	Water	208/230V	27 ⅜ in	48 in	27 ⅜ in	KM-1301SWJ	**31XC63**
1,325 lb	—	Crescent	Air	208/230V	41 ½ in	30 in	27 ⅜ in	KM-1340MAJ	**31XC64**
1,329 lb	—	Crescent	Air	208/230V	27 ⅜ in	48 in	27 ⅜ in	KM-1301SAJ	**31XC62**
1,382 lb	—	Crescent	Water	208/230V	41 ½ in	30 in	27 ⅜ in	KM-1340MWJ	**31XC65**
1,462 lb	—	Crescent	Air	208/230V	27 ⅜ in	48 in	27 ⅜ in	KM-1601SAJ	**31XC66**
1,492 lb	—	Crescent	Water	208/230V	27 ⅜ in	48 in	27 ⅜ in	KM-1601SWJ	**31XC68**
1,825 lb	—	Crescent	Water	208/230V	36 7/16 in	48 in	27 ⅜ in	KM-1900SWJ3	**31XC73**
1,859 lb	—	Crescent	Air	208/230V	36 7/16 in	48 in	27 ⅜ in	KM-1900SAJ3	**31XC71** *
2,096 lb	—	Crescent	Water	208/230V	36 7/16 in	48 in	27 ⅜ in	KM-2200SWJ3	**31XC74**
2,408 lb	—	Crescent	Water	208/230V	36 7/16 in	48 in	27 ⅜ in	KM-2600SWJ3	**31XC75**
Ice Dispenser, Ice Machine, Water Dispenser, Countertop, w/ Built-In Storage									
288 lb	9 lb	Cubelet	Air	115V	31 11/16 in	16 9/16 in	24 ⅛ in	DCM-271BAH	**31XC25**
321 lb	40 lb	Cubelet	Air	115V	40 in	26 in	22 ½ in	DCM-300BAH	**31XC26**
567 lb	40 lb	Cubelet	Water	115V	40 in	26 in	22 ½ in	DCM-500BWH	**31XC28**
618 lb	40 lb	Cubelet	Air	115V	40 in	26 in	22 ½ in	DCM-500BAH	**31XC27**
Ice Dispenser, For Use With KM or KML Series Heads									
—	130 lb	—	—	115V	53 in	22 in	30 in	DB-130H	**31XC29**
	200 lb	—	—	115V	53 in	30 in	30 in	DB-200H	**31XC30**
Ice Dispenser, Water Dispenser, Countertop, For Use With KM or KML Series Heads									
—	200 lb	—	—	115/120V	36 ⅜ in	30 in	28 in	DM-200B	**31XC31**
Stationary Ice Storage Bins, Stainless Steel, For Use With KM, KML, IM & F Series Heads (Includes Ice Scoop, Legs)									
—	260 lb	—	—	—	46 in	22 in	32 ½ in	B-300SF	**31XC13**
	360 lb	—	—	—	46 in	30 in	33 ½ in	B-500SF	**31XC15**
	700 lb	—	—	—	46 in	44 in	33 ½ in	B-700SF	**31XC17**
	600 lb	—	—	—	46 in	48 in	33 ½ in	B-800SF	**31XC19**
	660 lb	—	—	—	46 in	52 in	33 ½ in	B-900SF	**31XC21**
	1,275 lb	—	—	—	66 in	48 in	41 in	B-1300SS	**31XC23**
	1,605 lb	—	—	—	66 in	60 in	41 in	B-1650SS	**31XC24**

** ENERGY STAR qualified.*

Description	Mfr. Model	Item No.
Accessories		
Ice Machine Stand, For Use With Mfr. No. DCM-270BAH	SD-271	**31XC97**
Ice Machine Stand, For Use With DCM-500BWH, Mfr. No. DCM-500BAH	SD-500	**31XC98**

36RF27

36RF26

Ice Machines and Dispensers

Ice-O-Matic

- 115V, except 437L47 to 437L50 are 208/230V

36RF27 has a sanitary, touch-free dispenser. Lighted keypad and design allows you to fill large water pitchers. 36RF26 allows easy cleaning of the storage bin without moving the machine. Undercounter models have a large door at the front of the unit easing access to the ice. 36RF31 is a continuous-flow ice maker with non-refrigerated ice storage. Find more Ice-O-Matic products on Grainger.com.

Item	Ice Production per Day	Ice Storage Cap.	Cube Type	Condenser Cooling	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Countertop									
Ice/Water Dispenser	273 lb	12 lb	Nugget	Air	34 13/32 in	15 19/64 in	26 3/32 in	GEMD270A	**36RF27**
Floor-Standing									
Ice/Water Dispenser	—	180 lb	—	—	53 ¼ in	30 in	33 ½ in	CD40130	**36RF26**
Modular									
Ice Maker	1,400 lb	—	Dice	Air	21 ¼ in	30 ¼ in	24 ¼ in	CIM1446FA	**437L47**
	1,400 lb	—	Dice	Water	21 ¼ in	30 ¼ in	24 ¼ in	CIM1446FW	**437L48**
	1,400 lb	—	Half Dice	Air	21 ¼ in	30 ¼ in	24 ¼ in	CIM1446HA	**437L49**
	1,400 lb	—	Half Dice	Water	21 ¼ in	30 ¼ in	24 ¼ in	CIM1446HW	**437L50**
Undercounter									
Ice Maker	185 lb	70 lb	Dice	Air	39 in	24 35/64 in	26 17/64 in	ICEU150FA	**36RF79**
	309 lb	97 lb	Dice	Air	39 in	30 11/32 in	29 31/32 in	ICEU300FA	**36RF87**
	356 lb	97 lb	Dice	Water	39 in	30 11/32 in	29 31/32 in	ICEU300FW	**36RF88**
	85 lb	22 lb	Nugget	Air	33 ⅜ in	14 ⅞ in	19 in	GEMU090	**36RF31**
Filter									
Quick Connect Filter, 0.5 micron Microns, 1.5 gpm, For Use With Water Filtration Systems								IOMQ	**36RF14**

Digital/Wireless App Manifolds

YELLOW JACKET

ManTooth gauges provide a wireless connection to your smart device so you can test without losing refrigerant (no hoses or manifolds required). Calculate and display pressure, temp., superheat and sub-cooling on your device. Screenshot feature lets you save and share readings. Rechargeable battery and USB cable included. 39DM72 includes a case. 48WE24 includes dual non-tethered pressure/temperature gauges, 2 wired temperature clamps, and 1 interchangeable vacuum gauge.

PARKER

Lightweight wireless sensors can sync with a smart device app so you can read and display a system's real-time pressure and temp., plus display superheat and sub-cooling without using hoses or manifold gauges. Case included.

TESTO

All include a large back-lit digital display, sight glass, and batteries. Included case, except for 39DM73.

39DM73—Includes 60 refrigerant profiles.

39DM72

45TY46
(Phone not included)

21C649—Internal vacuum sensor, data logging and printing capabilities, and a third probe port. Simultaneous superheat and sub-cool calculations and 40 refrigerant profiles (more are downloadable). Includes 2 NTC temp. clamps and USB cable.

21C649

Description	Refrigerant Compatibility	No. of Valves	Accuracy	Gauges High-Side Red	Gauges Low-Side Blue	Brand	Mfr. Model	Item No.
ManTooth Wireless Digital, P/T Dual, Rubber Boot (Tethered)	Multiple Refrigerants	—	+/-0.5-1-2%	—	—	Yellow Jacket	67002	**36WG62**
ManTooth Wireless Digital, P/T Dual, Rubber Boot (Non-Tethered)	Multiple Refrigerants	—	+/-0.5-1-2%	—	—	Yellow Jacket	67003	**39DM72**
ManTooth Wireless Digital, P/T/V Dual, Side Grip	Multiple Refrigerants	2	+/-1.00%	0 to 700 psi	0 to 700 psi	Yellow Jacket	67023	**48WE24**
Smart Service Tool Kit, Wireless	Multiple Refrigerants	0	+/-0.75%	0 to 700 psi	0 to 300 psi	Parker	SSTK-PARKER	**45TY46**
Testo 549 Digital Manifold	Multiple Refrigerants	2	+/-0.5-1-2%	0 to 870 psi	0 to 870 psi	Testo	0560 0550	**39DM73**
Testo 570 Digital Manifold with Data Storage	Multiple Refrigerants	4	—	0 to 725 psi	0 to 725 psi	Testo	0563-5703	**21C649**

3KU65

4PDG1

12H946

Manifold Gauge Sets

Yellow Jacket—Manifolds offer 60" UL high-pressure hose sets. Aluminum 4-valve manifolds feature ⅜" vacuum port and exclusive 100 mesh filter within each flare fitting to keep out particulate material and extend seat life. All manifold bodies have lifetime manufacturer's warranty. Gauges offer 1% full scale accuracy and polycarbonate crystal cover to prevent face damage. 3⅛" gauges have Flutterless technology. Gauges are adaptable to other industry manifolds.

JB Industries—20HK13 and 36P061 feature full-flow design for faster evacuation and charging. 14X855 and 14X854 have internal metering ball valves for liquid charging; no liquid charging adapter required. Most have 3⅛" gauges with 3-refrigerant scales; 14X858 features 4" gauges with 4-refrigerant scales, Class 1. 35YX49 and 36P061 have secure seal fittings.

Imperial—Precision flutter- and pulsation-resistant gauges with protective boots. PolarShield high-pressure UL Recognized barrier hoses. 2-valve manifolds are brass; 3- and 4-valve manifolds are aluminum. 4-valve manifolds feature ⅜" vacuum port. 1YNU9 has integrated liquid low side charger.

Dayton—All units include 72" hose sets. 4PDF8, 4PDF7, and 4PDG1 use flutter-resistant dry gauges.

No. of Valves	No. of Hoses	Hose Length	Refrigerant Compatibility	Gauges High-Side Red	Gauges Low-Side Blue	Brand	Mfr. Model	Item No.
Analog Manifolds								
2	0	—	Multiple Refrigerants	—	0 to 350 psi	Yellow Jacket	93853	**33NT65**
2	3	60 in	R-407C, R-422D, R-438A	0 to 500 psi	30 in Hg to 350 psi	JB Industries	M2-22831	**20HK13**
2	0	—	R-404A, R-407A, R-407C	0 to 800 psi	30 in Hg to 500 psi	JB Industries	M2-25515	**36P061**
2	3	36 in	R-12, R-22, R-502	0 to 500 psi	30 in Hg to 350 psi	Imperial	496-C	**6X639**
2	3	60 in	R-134A, R-22, R404A	0 to 500 psi	30 in Hg to 250 psi	Imperial	443-C	**36J595**
2	0	—	R-134A, R-22, R-404A	0 to 500 psi	30 in Hg to 120 psi	Yellow Jacket	42005	**29AU08**
2	3	60 in	R-134A, R-22, R-404A	0 to 500 psi	30 in Hg to 120 psi	Yellow Jacket	42006	**29AU09**
2	3	72 in	R-12, R-22, R-502	0 to 500 psi	30 in Hg to 350 psi	Dayton	4PDF8	**4PDF8**
2	3	72 in	R-134A Automotive	0 to 500 psi	30 in Hg to 120 psi	Yellow Jacket	49847	**1WLG3**
2	3	72 in	R-134A Automotive	0 to 500 psi	30 in Hg to 350 psi	Dayton	4PDF7	**4PDF7**
3	3	36 in	Multiple Refrigerants	0 to 800 psi	0 to 500 psi	JB Industries	22733	**415G08**
4	4	60 in	R-12, R-22, R-502	0 to 800 psi	30 in Hg to 350 psi	Imperial	621-C	**1A216**
4	4	60 in	R-134A, R-22, R-404A	0 to 500 psi	30 in Hg to 350 psi	JB Industries	26133	**14X855**
4	4	60 in	R-134A, R-22, R-404A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	49987	**29AU17**
4	4	60 in	R-134A, R-22, R404A	0 to 500 psi	30 in Hg to 250 psi	Imperial	843-CS	**36J594**
4	4	60 in	R-134A	0 to 500 psi	30 in Hg to 350 psi	Imperial	631CKP	**3XL15**
4	4	60 in	R-134A, R-404A, R-507	0 to 500 psi	30 in Hg to 350 psi	Imperial	651-C	**3KU72**
4	4	78 in	CO2	0 to 3000 psi	30 in Hg to 1500 psi	Yellow Jacket	45925	**423N92**
Analog Manifolds, R-410A Compatible								
2	0	—	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	42001	**29AU07**
2	3	60 in	R-22, R-404, R-410A	0 to 600	-30 to 500	JB Industries	22233	**35YX48**
2	3	60 in	R-22, R-404, R-410A	0 to 600	-30 to 500	JB Industries	22246	**35YX49**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	49867	**12H947**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	42004	**38D864**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	M2-5-410A-SS	**36P060**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	Imperial	421-C	**3KU65**
2	3	60 in	R-22, R-407C, R-410A	0 to 800 psi	30 in Hg to 800 psi	Yellow Jacket	42044	**10M827**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	M2-22231	**2LHR9**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	M2-5-410A	**3TRA6**
2	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	24233	**3TRA7**
2	3	72 in	R-22, R-407C, R-410A, R404A	0 to 800 psi	30 in Hg to 600 psi	Dayton	4PDG1	**4PDG1**
2	3	60 in	R-410A	0 to 800 psi	30 in Hg to 800 psi	Yellow Jacket	42024	**10M823**
2	3	60 in	Multiple Refrigerants	0 to 800 psi	30 in Hg to 500 psi	CPS Blackmax	MBHP5E	**406D47**
3	3	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	Imperial	718-CC	**1YNU9**
4	0	—	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	46010	**29AU19**
4	4	60 in	Multiple Refrigerants	0 to 800 psi	30 in Hg to 500 psi	CPS Blackmax	MV4H4P5EZ	**406D50**
4	4	60 in	R-22, R-410A, R404A	0 to 800 psi	30 in Hg to 500 psi	Imperial	846-CS	**36J596**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	25233	**3TRA8**
4	4	60 in	R-134A, R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 400 psi	JB Industries	25708	**14X858**
4	4	60 in	R-22, R-410A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	49977	**10M813**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	Imperial	644-C	**3KU64**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 500 psi	JB Industries	26200-310	**14X854**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	0 to 350 psi	Yellow Jacket	49967	**12H946**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	49968	**29AU14**
4	4	60 in	R-22, R-404A, R-410A	0 to 800 psi	30 in Hg to 350 psi	Yellow Jacket	46013	**29AU20**

Charging and Evacuation Hoses

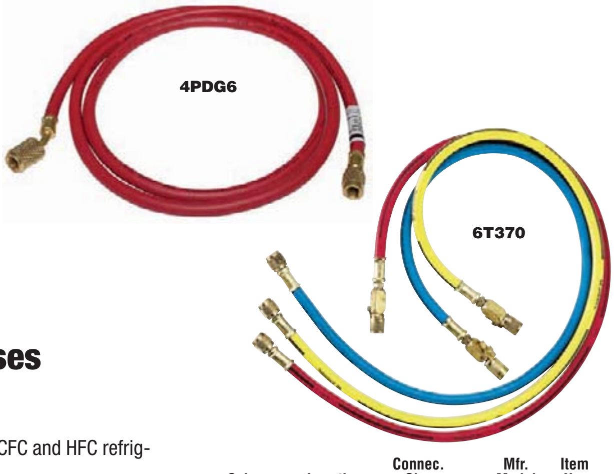
- Working pressure: 800 psi
- Burst pressure: 4000 psi

Dayton—Compatible with HCFC and HFC refrigerants, including R-410A.

JB Industries Kobra Kevlar—Hoses feature secure seal fittings and are for use with R-410A.

Imperial Kevlar-Lined PolarShield—Can be used with all blends of refrigerants. Adjustable brass core depressor to match valve core. 905 Series hoses have ¼" FFL connections with auto shut-off on 1 end. 6T370 and 6T371 have permanently attached straight Kwik-Coupler shut-off connector at 1 end of each hose. R-410A compatible.

Yellow Jacket PLUS II—Hoses feature double barrier protection and are compatible with all refrigerants, including R410A. Compact ball valves recommended for R410A; SealRight fittings feature low loss anti-blow back connection; standard ends offer an "Adjust-a-Valve" depressor.

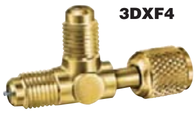


Color	Length	Connec. Size	Mfr. Model	Item No.
Dayton				
Red	72 in	¼ in Female	4PDG6	**4PDG6**
Yellow	72 in	¼ in Female	4PDG5	**4PDG5**
Blue	72 in	¼ in Female	4PDG7	**4PDG7**
Blue, Red, Yellow	72 in	¼ in Female	4PDG4	**4PDG4**
Black	72 in	⅜ in Female	4PDG8	**4PDG8**
JB Industries Kobra Kevlar				
Red	60 in	¼ in Female	CLS-60R	**36P059**
Red	72 in	¼ in Female	CLS-72R	**1AKD6**
Yellow	60 in	¼ in Female	CLS-60Y	**36P057**
Yellow	60 in	⅜ in Female	CL6-60Y	**35Y836**
Blue	60 in	¼ in Female	CLS-60B	**36P058**
Black	72 in	¼ in Female	CLB-72	**1AKD8**
Blue, Red, Yellow	72 in	¼ in Female	CCLS-72	**35Y850**
Blue, Red, Yellow	60 in	Red and Blue ¼ in Female x 5/16 in Female, Yellow Hose ¼ in Female x ¼ in Female	CCLS5-60	**35YX42**
Blue, Red, Yellow	60 in	¼ in Female	CCLS-60	**2LHT1**
Blue, Red, Yellow	60 in	Black Hose ⅜ in Female x ⅜ in Female, Red/Yellow/Blue Hose ¼ in Female x ¼ in Female	CCLE4-60	**35YX43**

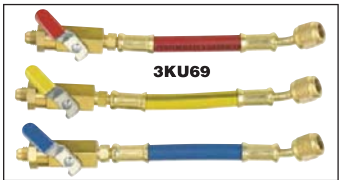
Color	Length	Connec. Size	Mfr. Model	Item No.
Imperial Kevlar-Lined PolarShield				
Red	36 in	¼ in Female	803-MRR	**6X643**
Red	60 in	¼ in Female	805-MRR	**6X646**
Red	60 in	¼ in Female	905-MRR	**36J603**
Yellow	36 in	¼ in Female	803-MRY	**6X642**
Yellow	60 in	⅜ in Female	560-FTY	**3T473**
Yellow	60 in	¼ in Female	805-MRY	**6X645**
Yellow	60 in	¼ in Female	905-MRY	**36J601**
Blue	36 in	¼ in Female	803-MRB	**6X641**
Blue	60 in	¼ in Female	805-MRB	**6X644**
Blue	60 in	¼ in Female	905-MRB	**36J602**
Blue, Red, Yellow	36 in	¼ in Female	803-KCS	**6T370**
Blue, Red, Yellow	60 in	¼ in Female	805-MRS	**4LEP3**
Blue, Red, Yellow	60 in	¼ in Female	905-MRS	**36J599**
Blue, Red, Yellow	72 in	¼ in Female	806-MRS	**4LEP4**
Blue, Red, Yellow	72 in	¼ in Female	806-KCS	**6T371**
Yellow Jacket PLUS II				
Red	48 in	¼ in Female	21648	**38D870**
Red	60 in	¼ in Female	21660	**1WLG7**
Red	72 in	¼ in Female	21672	**38D873**
Yellow	60 in	¼ in Female	21060	**1WLG6**
Yellow	60 in	⅜ in Female	14560	**1WLG9**
Yellow	72 in	¼ in Female	21072	**38D871**
Blue	48 in	¼ in Female	21248	**38D869**
Blue	60 in	¼ in Female	21260	**1WLG8**
Blue	72 in	¼ in Female	21272	**38D872**
Blue, Red, Yellow	36 in	¼ in Female	21983	**29AU30**
Blue, Red, Yellow	60 in	¼ in Female	21985	**1WLH1**
Blue, Red, Yellow	60 in	¼ in Female	22985	**12H942**
Black, Blue, Red, Yellow	60 in	¼ in Female	21990	**33NT64**
Yellow Jacket PLUS II with Compact Ball Valve				
Red	60 in	¼ in Female	29660	**10M804**
Yellow	60 in	¼ in Female	29060	**10M802**
Blue	60 in	¼ in Female	29260	**10M803**
Blue, Red, Yellow	36 in	¼ in Female	29983	**29AU38**
Blue, Red, Yellow	48 in	¼ in Female	29984	**38D878**
Blue, Red, Yellow	60 in	¼ in Female	29985	**10M805**
Blue, Red, Yellow	72 in	¼ in Female	29986	**38D879**
Yellow Jacket PLUS II with Double Barrier Protection				
Yellow	48 in	¼ in Female	21048	**38D868**
Blue, Red, Yellow	48 in	¼ in Female	21984	**38D874**
Blue, Red, Yellow	72 in	¼ in Female	21986	**38D875**
Yellow Jacket PLUS II with FlexFlow Valve				
Red	9 in	¼ in Female	25602	**29AU34**
Yellow	9 in	¼ in Female	25002	**29AU32**
Blue	9 in	¼ in Female	25202	**29AU33**
Blue, Red, Yellow	60 in	¼ in Female	25985	**29AU36**
Blue, Red, Yellow	72 in	¼ in Female	25986	**29AU37**
Yellow Jacket FlexFlow Assembly				
Blue, Red, Yellow	9 in	¼ in Female	25980	**29AU35**
Yellow Jacket PLUS II with SealRight Fitting				
Blue, Red, Yellow	36 in	¼ in Female	22983	**29AU31**
Blue, Red, Yellow	48 in	¼ in Female	22984	**38D876**
Blue, Red, Yellow	72 in	¼ in Female	22986	**38D877**

Manifold Hose Accessories

38D865 and 38D866 feature SealRight low loss anti-blow back connection. 38D867 Ball Valve Kit recommended for R410A.


3DXF4

29AU26


3KU69

10U327

38D880

Item	Connec. Size	Brand	Mfr. Model	Item No.
Acme Union	½ in Acme Male x ¼ in SAE Female	JB Industries	AF-13455	**3DXF5**
Low Loss Quick Coupler	¼ in Male x ¼ in Female	JB Industries	33112N	**3AXF7**
Quick Coupler	⅛ in (F)NPT x ¼ in Female	JB Industries	QC-S4A	**3DXH1**
Quick Coupler	¼ in SAE Male x ½ in Acme Female	JB Industries	QC-13445-134A	**3DXG6**
Quick Coupler	¼ in Male x ¼ in Female	JB Industries	QC-S4	**3DXG9**
Quick Coupler	¼ in (F)NPT x ¼ in Female	JB Industries	QC-S4B	**3DXH3**
Quick Coupler	¼ in Male x 5/16 in Female	JB Industries	QC-S5	**3DXH4**
Quick Coupler	½ in Acme Male x ¼ in SAE Female	JB Industries	QC-S4A-134a	**3DXH2**
Quick Coupler, No Depressor	¼ in Male x 5/16 in Female	JB Industries	QC-S5S	**3DXH5**
Quick Coupler, No Depressor	¼ in Male x ⅜ in Female	JB Industries	QC-S64	**3DXH6**
0/90° Angle				
Quick Coupler, Access Tee	¼ in Quick Coupler x ¼ in Tee	JB Industries	A34000	**3DXF4**
0 ° Angle				
Ball Valve Adapter	¼ in Male x ¼ in Female	Yellow Jacket	93844	**29AU29**
Liquid Charging Adapter	¼ in Male x ¼ in Female	JB Industries	LC-4	**20W314**
Liquid Charging Adapter	¼ in Male x ¼ in Female	Yellow Jacket	41123	**29AU26**
Liquid Charging Adapter	5/16 in Male x 5/16 in Female	JB Industries	LC-5	**20W315**
Liquid Charging Adapter, Kwik Charge	¼ in Male x ¼ in Female	Imperial	535-C	**3KU66**
Quick Coupler	¼ in SAE Male x 5/16 in Female	JB Industries	A31656	**35YX44**
Quick Coupler	5/16 in SAE Male x ¼ in Female	JB Industries	A31665	**35YX45**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	—	10U324	**10U324**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	—	10U326	**10U326**
Quick Coupler, Low Loss	¼ in SAE Male x 5/16 in Female	JB Industries	33115N	**35YX46**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	Yellow Jacket	19109	**38D865**
Quick Coupler, Low Loss, Kwik-Coupler	¼ in Male x ¼ in Female	Imperial	16-C	**33NR65**
Swivel Coupler	¼ in Female	JB Industries	D10244	**35Y864**
30 ° Angle				
Ball Valve Adapter Hose	¼ in Male x ¼ in Female	Dayton	4PDG3	**4PDG3**
Ball Valve Adapter Hose Set	¼ in Male x ¼ in Female	Imperial	800-MBS	**3KU69**
45 ° Angle				
Ball Valve Adapter	¼ in Male x ¼ in Female	Yellow Jacket	93843	**29AU28**
Ball Valve Adapter Hose Set	¼ in Male x ¼ in Female	Yellow Jacket	93842	**38D867**
Quick Coupler	¼ in SAE Male x 5/16 in Female Quick Coupler	Yellow Jacket	19173	**38D880**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	Yellow Jacket	19208	**29AU25**
90 ° Angle				
Low Loss Quick Coupler	¼ in Male x ¼ in Female	JB Industries	33113N	**3AXF8**
Quick Coupler	¼ in Male x ¼ in Female	JB Industries	QC-E4	**3DXG7**
Quick Coupler	¼ in Male x 5/16 in Female	JB Industries	QC-E5	**3DXG8**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	—	10U325	**10U325**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	—	10U327	**10U327**
Quick Coupler, Low Loss	¼ in SAE Male x 5/16 in Female	JB Industries	33116N	**35YX47**
Quick Coupler, Low Loss	¼ in Male x ¼ in Female	Yellow Jacket	19209	**38D866**
Quick Coupler, Low Loss, Kwick-Coupler	¼ in Male x ¼ in Female	Imperial	17-C	**33NR66**

20HJ97

Refrigerant Recovery Machines

UL CERTIFIED
To meet EPA Regulations per ARI 740
8EA7

Bacharach 2-Port—Powerful twin cylinder 1-HP oilless compressor, high/low pressure shut-off, and easy 1-knob operation. Integrated purge feature minimizes cross-contamination of refrigerants. Include in-line filter and connection hose. 31TP42 has 80% shutoff installed.

Dayton 2-Port—Oilless, air-cooled, direct-drive compressor easily switches between liquid and vapor recovery. Shut off when recovery is done.

Inficon Vortex Dual 2-Port—1 HP dual piston compressor and micro-channel condenser ensures sustained speed in high-temp. environments.

JB Industries—Powerful dual-piston compressor, simple 2-valve operation, and is self-purging without having to change hoses.

Robinair—Oilless compressor and lets you recover both vapor and liquid refrigerant. Simple 2-valve controls and auto, high-pressure shut down.

Yellow Jacket YJ-LTE—Easy-to-use purge circuit for clearing after each job. 1-valve and 1-gauge control panel.

Yellow Jacket RecoverXLT 2-Port—Oilless units offer single-valve control for easy changeover from liquid to vapor to purge. CPR valve regulates refrigerant to compressor; eliminates throttling the suction valve.

3MMT4

1WLG1

Description	Dimensions (in.) H	W	D	Weight (lb.)	Mfr. Model	Item No.
Bacharach 2-Port	13 ¾ in	10 ¼ in	16 ⅛ in	28.5 lb	2020-8000	**31TP41**
Bacharach 2-Port	13 ¾ in	10 ¼ in	16 ⅛ in	28.5 lb	2020-8001	**31TP42**
CPS Pro-Set 2-Port	12 in	7 in	16 ¼ in	28.1 lb	TRS600	**406D45**
Dayton 2-Port	20 in	15 in	11 in	43 lb	—	**4UKV9**
Inficon Vortex Dual 2-Port	16 11/16 in	9 3/16 in	14 3/16 in	29.75 lb	714-202-G1	**3MMT4**
JB Industries 2-Port	16 in	19 in	11 in	39 lb	F6-DP	**48ZJ65**
Robinair 2-Port	11 in	15 in	8 5/16 in	18 lb	RG3	**46C629**
Robinair 2-Port	12 in	9 in	20 in	27 lb	RG6	**52VN87**
Robinair 4-Port	22 in	14 in	16 in	40 lb	25200B	**52VN79**
Yellow Jacket YJ-LTE	11 ½ in	9 in	13 ½ in	24 lb	95730	**33NT67**
Yellow Jacket RecoverXLT 2-Port	12 ½ in	12 13/32 in	19 5/16 in	40.05 lb	95760	**1WLG1**
Yellow Jacket RecoverXLT 2-Port, with Tank Overfill Switch	15 in	21 ¼ in	13 ½ in	38 lb	95762	**29AU04**
Dayton Float Cable Repair Part, 6 Ft., For Use with 4UKW1					—	**4UKW2**

Vacuum Pumps

Have check valves, sight glass, and gas ballast valve. 115V, 60 Hz.

Bacharach—Compact, 2-stage, rotary vane pumps.

CPS Pro-Set—Lightweight and meets ANSI 12:12.01 Ignition Proof standards.

Dayton—Portable design; On/Off rocker switch.

JB Industries—2-stage, direct-drive pumps with low-profile On/Off rocker switch. 1AKD9 and 5UET2 have drain valves sealed with O-rings to prevent leaks.

Robinair—2-stage rotary vane design. 52VN81 has high CFM rating for fast evacuation. 52VN86 lets you shut off pump while connected to A/C system.

1RK23, Shown with Oil Caddy

Yellow Jacket SuperEvac—2-stage pumps pull a vacuum down to 15 microns. Built-in vacuum gauge, all-metal with steel handle, and intake filter screen.

Yellow Jacket Bullet—Has an intake filter screen.

Description	Displacement	Amps AC	HP	Inlet Port Size	Cord	Weight	Mfr. Model	Item No.
Pumps								
Bacharach	2 cfm	—	¼	¼ in & ⅜ in Flare	6 ft	22 lb	2002-0001	**3MMU9**
	5 cfm	—	½	¼ in & ⅜ in Flare	6 ft	26 lb	2002-0005	**3MMV2**
CPS Pro-Set	6 cfm	5	½	¼ in & ½ in Flare, ⅜ in	6 ft	23 lb	VPS6DU	**406D62**
Dayton	3 cfm	5	¼	¼ in & ⅜ in Flare	6 ft	20 lb	—	**2VKY3**
	5 cfm	7	⅓	¼ in & ⅜ in Flare	6 ft	24 lb	—	**2VKY4**
	7 cfm	7.5	½	¼ in & ⅜ in Flare	6 ft	38 lb	—	**2VKY5**
	9 cfm	9	½	¼ in & ⅜ in Flare	6 ft	38 lb	—	**2VKY6**
JB Industries	4 cfm	7	½	¼ in & ⅜ in Flare	6 ft	31 lb	DV-4E	**1AKD9**
	3 cfm	7.5	½	¼ in & ⅜ in Flare	6 ft	30 lb	DV-85N	**1RK24**
	6 cfm	5.2	½	¼ in & ⅜ in Flare	6 ft	30 lb	DV-6E	**5UET2**
	7 cfm	7.5	½	¼ in & ½ in Flare, ⅜ in	6 ft	31 lb	DV-200N	**1RK23**
	10 cfm	7.7	½	¼ in & ½ in Flare, ⅜ in	6 ft	35 lb	DV-285N	**3WU95**
Robinair	5 cfm	20	⅓	½ in ACME, ¼ in & ⅜ in Flare	6 ft	21 lb	15500	**52VN81**
	6 cfm	20	½	½ in ACME, ¼ in & ⅜ in Flare	6 ft	27 lb	15600	**52VN86**
Yellow Jacket SuperEvac Premium	6 cfm	6.2	½	¼ in & ⅜ in Flare	8 ft	35 lb	93560	**1WLF8**
	8 cfm	—	½	½ in, ⅜ in & ¼ in Flare		26.8 lb	93780	**784JH2**
	11.1 cfm	10	½	¼ in & ½ in Flare	6 ft	32 lb	93590	**38D861**
Yellow Jacket Bullet Economy	7 cfm	—	½	¼ in & ⅜ in Flare	6 ft	31 lb	93600	**10M826**
Oil and Oil Caddy								
JB Industries Vacuum Pump Oil, Non-Detergent, 1 qt							DVO-12	**20HJ90**
JB Industries Vacuum Pump Oil Caddy							DV-T1	**20HJ89**
Yellow Jacket SuperEvac Oil, 1 gal.							93096	**29AU06**

Refrigerant Recovery Cylinders and Liquid Level Sensor

Powder-coated, reusable cylinders meet DOT Spec. 4BA and ARI guidelines. Dual-port valve for liquid or vapor. A refrigerant recovery scale or float sensor (sold separately) is required to avoid overfilling. Liquid Level Sensor 4LZH4 serves as a float switch.

4LZH2

Description	Dimensions (in.) H	W	Item No.
Cylinder, 30 lbs.	17 15/16 in	9 1/16 in	**4LZH2**
Cylinder, 50 lbs.	19 7/16 in	12 ¼ in	**4LZH3**
Liquid Level Sensor For Use with 4LZH2, 4LZH3			**4LZH4**

3TRC1

40KJ53

5PWF7

Refrigerant Charging/Recovery Scales

Scales are electronic with 3 digital display modes: lb./oz., decimal lb., and kg. Case included.

5PWF7—¼" male flare and ½" ACME fittings. Holds 100 charge/recovery programs.

Wireless—Units track refrigerant transferred over multiple jobs and can support multiple users. 40KJ53 displays through your smartphone via a free app. 40KJ54 can operate without a smartphone via wireless handpiece with display.

Description	Max. Cap. (lb.)	Accuracy	Brand	Mfr. Model	Item No.
Charging/Recovery Scale	110 lb	±0.25 oz	Yellow Jacket	68802	**8EZ89**
	110 lb	0.1 oz/0.005 lbs./2g	TIF	TIF9010A	**1T921**
	110 lb	±2g	—	5PWF8	**5PWF8**
	200 lb	±2g	—	5PWF9	**5PWF9**
	220 lb	.25 oz/10 gm	JB Industries	DS-20000	**3TRC1**
	220 lb	±1.0 oz/ ±0.06 lb/ ±0.03 kg or 0.1% of Reading, Whichever is Greater	Yellow Jacket	68812	**29AU22**
	220 lb	0.5oz	TIF	TIF9030	**3MMU7**
	250 lb	0.25 oz/10g	JB Industries	DS-20000S	**48ZJ67**
	220 lb	±0.05% Reading	CPS Compute-A-Charge	CC220	**406D38**
	330 lb	±0.44 lb	Bacharach	2010-0000	**31TP43**
Programmable Charging/Recovery Meter	220 lb	±2g	—	5PWF7	**5PWF7**
Wireless Scale	330 lb	±0.2% Readings	UEI Test Instruments	WRSX	**447M21**
Wireless Charging Scale, App-Based	250 lb	±0.06% Reading ±0.25 oz/10 g	Inficon	719-202-G1	**40KJ53**
Wireless Charging Scale, with Handpiece	250 lb	±0.06% Reading ±0.25 oz/10 g	Inficon	719-203-G1	**40KJ54**
Wireless Charging/Recovery Scale	110 lb	68° to 122°F/ ±0.25% FS ±1 dgt	UEI Test Instruments	WRS110	**53YP67**
Optional Handpiece, For Use with 40KJ53			Inficon	719-715-G1	**40KJ55**

10M819

Refrigerant Leak Detectors

Detect all halogenated refrigerants, except 5ZXH2 only detects CO_2 refrigerant.

Yellow Jacket—10M819 has flashing tip, UV lights, and Smart Alarm LED that shows the size of leak on a scale of 1 to 9.

Johnson Controls—Manual and automatic background adjustment.

Inficon—Automatic background adjustment, audible and visual alarms. 5ZXH2, 5ZXH1, and 3MMN3 include multiple LEDs and headphone jack.

Bacharach—3MMT2 has high or low sensitivity modes.

JB Industries—Allows you to detect all HFC, HCFC, and blended refrigerants, plus the new HFO refrigerants. 35YX37 has a peak function that stores the highest change in refrigerant concentration while continuing to detect leaks.

UEI Test Instruments—52AU29 has a digital numeric leak size indicator with 3 sensitivity levels and a visual LED leak alarm in a splash-resistant housing. 52WH43 can detect existing halogenated refrigerants and blends with 2 position sensitivity selector, plus audible and visual leak rate indicators. 52ND59 is NIST certified.

Description	Sensitivity per Year	Sensitivity Level	Mfr. Model	Item No.
Yellow Jacket				
AccuProbe II, Audible Signal, 4AA Batteries, Low Battery Indicator, Case	1.7 g/yr	3	69354	**10M820**
AccuProbe UV, UV Lights, Audible Signal, 4AA Batteries, Low Battery Indicator, Case	1.7 g/yr	3	69336	**10M819**
Johnson Controls				
Positive Ion Emission Heated Diode, Rechargeable Battery, Charger, Case	0.1 oz/yr	—	RLD-H10PRO-1	**45GX87**
Replacement Sensor, For Use With Mfr. No. RLD-H10G-1 and RLD-H10PM-1	—	—	RLD-H10-601R	**40G418**
Maintenance Kit: 100 Replacement Filters, 3 Airflow Indicator Balls, 3 Probe Tips, Case	—	—	RLD-H10-602R	**40G419**
Inficon				
D-TEKy CO2 Refrigerant, Infrared Absorption, Infrared Cell, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	5 g/yr	2	716-202-G1	**5ZXH2**
TEK-Matey Heated Diode Sensor with Mechanical Pump, Audible & Visual Signal, 2 D Batteries, Low Battery Indicator, Spare Filters, Case	0.25 oz/yr CFCs, HCFCs, HFCs & HFOs	2	705-202-G1	**3MMN5**
Compassy Heated Diode Sensor with Mechanical Pump, Audible Signal, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	0.15 oz/yr CFCs, HCFCs, HFCs & HFOs	2	717-202-G1	**5ZXH1**
D-TEKy Select Infrared, Audible Signal, NiMH Batteries, Low Battery Indicator, Spare Filters, 120V Adapter, 12V Car Adapter, Case	0.10 oz/yr CFCs, HCFCs, HFCs & HFOs	2	712-202-G1	**3MMN3**
Bacharach				
H-10 PRO, Positive Ion Emission Heated Diode, Rechargeable Battery & DC Wall Adapter, Case, Headphone Port	0.006 oz/yr	—	H-10 Pro	**38GN48**
Tru Pointey, Patented Sensor, Audible & Visual Signal, 2 D Batteries, Low Battery Indicator, Flexible Probes, Case	0.25 oz/yr (6 g/yr) (Probe held over leak for 5 sec.)	2	19-8106	**3MMT2**
JB Industries				
Auroray Infrared, Advanced Infrared Sensor, Alarming Capability, Lightweight, Long Life Sensor, 120 to 240V Wall Charger, 12V Vehicle Charger, Case, Filter, Needle Nose Probe, Wand Extension	0.1 oz/yr	Adjustable	LD-6000IR	**35YX37**
Prowlery LD 5000, Long-Life Electrochemical Sensor, Audio and Vibrating Handle Alarm, Battery Operated, LCD, 3 Sensitivity Levels, (4) AA Batteries	0.05 oz	Adjustable	LD-5000	**20HJ91**
Quest LD-3000, Long-Life Electrochemical Sensor, 3 Adjustable Sensitivty Sensors, Case, (4) AA Batteries	0.10 oz/yr CFCs, HCFCs, & HFCs	3	LD-3000	**415F92**
Robinair				
Audible Signal, True Mechanical Pump, Automatic Calibration & Reset to Ambient, Long Life Stable Sensor, Low Battery Indicator, 3 Adjustable Sensitivity Levels. Leak Test Vial, (4) AA Alkaline Batteries, (5) Replacement Sensor Filters	0.05 oz/yr R-134, 0.025 oz/yr R-22	Adjustable	LD3	**473F78**
UEI Test Instruments				
Ambient Level Reset, Automatic Calibration, Digital Numeric Leak Size Detector, Solid Electolyte Semiconductor Sensor, Splash Resistant, Visual LED Leak Alarm, Worklight, (4) AA Batteries, Case, Leak Test Vial, Sensor Filters	0.05 oz/yr R-134a, 0.025 oz/yr R-22	3	RLD15B	**52AU29**
Audible Tic Rate, Automatically Detects All Existing Refrigerants and Blends, Long Gooseneck Probe, One-Hand Operation, 2 Position Sensitivity Selector, 9V Battery; Lead Test Vial	0.5 oz/yr	2	RLD10	**52WH43**
Automatic Calibration and Ambient Level Reset, Lightweight, Splash Resistant, Visual LED Leak Alarm, (4) AA Batteries, Case, Filter, Leak Vial	0.05 oz/yr R-134a, 0.025 oz/yr R-22	3	RLD15B-N	**52ND59**
Replacements				
Replacement Probe Cap And Filter Kit, For Use With Mfr. No. 717-202-G1			717-701-G1	**5ZXH4**
Replacement Probe Filter, For Use With Mfr. No. 3015-4484			3015-2906	**34K571**
Replacement Filters and O-Ring Kit, For Use With Mfr. No. 0019-8200			0019-0801	**45AW27**
Replacement Tip Filter, (Pkg. Qty. 5), For Use With RLD15			RLDTF	**6CMT6**

35LX63

Ultrasonic Leak Detectors

AccuTrak technology allows you to easily pinpoint pressure and vacuum leaks in air conditioning and refrigeration systems without changing tips or components. Detect any type of refrigerant or gas, even as small as 1.5 oz. per year of refrigerant, or hear a 5 psi leak up to 30 ft. away. Use the Touch Probe to hear internal ultrasound to quickly diagnose malfunctioning valves and bearings. Troubleshoot a TXV in just 5 min. Use the Sound Generator to artificially "sound pressurize" any enclosure or vessel to find leaks; ideal for refrigerator door seals. 3KXG7 can detect pressurized or vacuum leaks for any gas including nitrogen. The laser pointer helps you pinpoint leak location, even for far-away leaks.

Includes	Brand	Mfr. Model	Item No.
Battery, Carry Case, Headset, Probe, Wave Guide	Superior AccuTrak®	VPE	**35LX63**
Battery, Carry Case, Headset, Probe, Sound Generator, Wave Guide	Superior AccuTrak®	VPE PRO-PLUS	**35LX64**
Battery, Carry Case, Headset, Wave Guide	Superior AccuTrak®	VPE-GN	**35LX65**
2 D Size Batteries, 2 Year Replacement Warranty, Hard Plastic Carrying Case, Headphones, Probe Extention, Whisper Ultrasonic Detector	Inficon	711-202-G1	**3KXG7**

20LR04

4LWX3

Data Loggers

Self-contained for temperature, except 4LWX3 monitors temperature and humidity. 20LR03 to 20LR05 have a real-time LCD and user selectable Stop on memory full, or rollover for continuous logging. Display alarm icon for high/low status and retain data if battery fails. All models include cables, software, and battery.

Description	Temp. Range (F)	Relative Humidity Range	Accuracy	Mfr. Model	Item No.
Miniature Data Logger, Humidity, Temperature	-40° to 158°F	0% to 99%	±1°F Temp, ±2% RH	SL300TH	**4LWX3**
Data Logger, Lithium Battery, Temperature	-5° to 160°F	—	±0.9°F (0.5°C)	SL500T	**20LR03**
Data Logger, Temperature	-5° to 160°F	—	±0.9°F (0.5°C)	SL500TC	**20LR05**
Data Logger, External Temperature	-5° to 160°F	—	±0.9°F (0.5°C)	SL500XT	**20LR04**

Leak Detection Kits and Accessories

Kits have fluorescent leak detection dyes that are free of co-solvents that can cause issues with air conditioning and refrigeration (AC/R) systems. The dye is injected into the system and allowed to circulate with the host fluid. An included UV lamp (except for 55NH58) is used to detect any fluorescent dye glow that indicates the presence of a refrigerant leak.

55NH67, 55NH69, and 55NH58—Have multi-dose dye cartridges where the injector is connected to the system's low-side service port and the injector's handle is turned to force the dye into the system. The cartridges have dosage marks that aid in dispensing the correct amount of fluorescent dye. Kits are for small- to medium-sized systems, except 55NH67 can dose up to 64 medium-sized systems or 32 large-sized systems.

55NH70—Has single-dose dye capsules that are injected by connecting between the low-pressure gauge of a charged manifold and the service port using two bleed valves. The dye is gradually added into the system along with refrigerant. For small- to medium-sized systems.

55NH67

Description	Brand	Mfr. Model	Item No.
Spectroline Leak Detection Kits			
BigEZ Fluorescent Dye Injector Kit includes: Violet light LED leak detection lamp, 4 oz (118 ml) BigEZ fluorescent dye cartridge, EZ-Ject dye injector assembly, 8 in. (20 cm) EZ-Ject hose assembly, Fluorescence-enhancing glasses, 2 oz (60 ml) GO-AWAY Plus dye cleaner, R-410a adapter/purge fitting.	Spectroline	SPE-HVLBEZE	**55NH67**
EZ-Ject Fluorescent Dye Injector Kit includes: Violet light LED leak detection lamp, (2) 0.5 oz (15 ml) universal/POE dye cartridges, EZ-Ject dye injector assembly, (1) 8 in (20 cm) EZ-Ject hose assembly, Fluorescence-enhancing glasses, 2 oz (60 ml) GLO-AWAY Plus dye cleaner, R-410a adapter/purge fitting.	Spectroline	SPE-HVLEZE	**55NH69**
EZ-Ject Fluorescent Dye Injection System. Multi-use kit ideal for small to medium size systems. Includes: (2) SPE-EZ5E 0.5 oz (15 ml) universal/POE dye cartridges, (1) EZ-Ject dye injector assembly, (1) 8 in (20 cm) EZ-Ject™ hose assembly, (1) adapter/purge fitting. Treats up to: 2 gallons (7.6 L) of lubricant, or 25 lbs (11.3 kg) of refrigerant, or 12 tons (42.2 kW) of cooling.	Spectroline	SPE-EZ100E-CS	**55NH58**
GLO-STICK Fluorescent Dye Injector Kit includes: Violet light LED leak detection lamp, (1) 0.5 oz (15 ml) universal/POE GLO-STICK dye capsule, (2) 0.5 oz (15 ml) universal/POE GLO-STICK dye capsules, (1) 0.5 oz (15 ml) universal/POE GLO-STICK dye capsule, (1) Bleed valve for attaching GLO-STICK capsule to service hose, 8 in. (20 cm) EZ-Ject hose assembly, Fluorescence-enhancing glasses, 2 oz (60 ml) GLO-AWAY Plus dye cleaner, R-410a adapter/purge fitting.	Spectroline	SPE-HVLGSE	**55NH70**
Parts and Accessories			
BigEZ Fluorescent Dye Cartridge, 4 oz (118 ml) universal/POE dye multi-use cartridge. Treats up to: 16 gallons (61 L) of lubricant, or 400 lbs (181 kg) of refrigerant, or 150 tons (527.5 kW) of cooling.	Spectroline	SPE-BEZ5E-4CS	**55NH57**
EZ-Ject Fluorescent Dye Cartridge, 0.5 oz (15 ml) multi-use universal/POE dye cartridge.	Spectroline	SPE-EZ5E-CS	**55NH59**
GLO-STICK 1E Fluorescent Dye Capsules, 0.5 oz (15 ml) universal/POE dye capsule. Treats up to: 15.1 oz to 1.6 qt (445 ml to 1.5 L) of lubricant, or to 4.9 lbs (1.4 to 2.2 kg) of refrigerant, or 2 tons (7 kW) of cooling.	Spectroline	SPE-GS1E-CS	**55NH63**
Glo-Stick 2E Fluorescent Dye Capsules, 0.5 oz (15 ml) universal/POE dye capsule. Treats up to: 1.7 to 3.2 qt (1.6 to 3.2 L) of lubricant, or 5 to 9.9 lbs (2.3 to 4.2 kg) of refrigerant, or 6 tons (21.1 kW) of cooling.	Spectroline	SPE-GS2E-CS	**55NH64**
GLO-STICK 3E Fluorescent Dye Capsules, 0.5 oz (15 ml) universal/POE dye capsule. Treats up to: 3.3 qt to 2 gal (3.1 to 7.6 L) of lubricant, or 10 to 25 lbs (4.6 to 11.3 kg) of refrigerant, or 12 tons (42.2 kW) of cooling.	Spectroline	SPE-GS3E-CS	**55NH65**
Inspection Flashlight with UV, laser and combination modes. 6 UV/Blue LEDs, 3 White LED Flashlight with 100,000 hr LED Life, Cordless, Includes Key Chain Carabiner	Fluke	RLD2	**5DJE7**
UV LED Leak Detection Flashlight is compact with a pre-focused lens creating a long-range inspection beam. For Universal/POE Dyes only. Includes fluorescence enhancing glasses and batteries.	Spectroline	SPE-HVL-CS	**55NH68**

Vacuum and Superheat/Subcooling Gauges

Supco—1TC70 features a color-coded LED readout and ¼" male flare connections. Includes hanger/stand, quick caps for fittings, and case. Digital models update every ½ sec. and feature ultrafine resolution, auto-off, and a built-in hanger. 4FY27 has 4½-digit LCD, thermistor sensor, and reads vacuum in: microns, psi, In Hg, millibars, pascals, Torr, or Millitorr of vacuum. Cleaning port for sensor cleaning and drying. 20LR01 is dual port with a backlit LCD. Unit has an audible and visual alarm when preset alarm thresholds are met.

JB Industries—35YX36 measures vacuum and can be remotely monitored via wireless Bluetooth and/or smartphone with free app. Program unit with a low/high limit alarm and it has data monitoring capabilities. Includes a power adapter and case. 5UET3 features programmable alarm, backlight, shutoff, and large LED screen. Factory calibrated. Includes AC adapter and case. 3TRC2 provides continuous read on LCD and saves last readout at shutdown. Leakproof design. ¼" swivel flare connection.

Yellow Jacket—9XHF8 automatically compensates for temp. and can display down to 10 microns in 7 different units. Sensor cord stretches to 24". Auto-Off. Replacement Vacuum Sensor 10M817 is sold separately.

Inficon—Pirani sensor for accurate measurements and replaceable filter to protect sensor. Reads from atmosphere to 1 micron. Quick calibration button; ¼" refrigerant flare fitting. Battery life: 45 hr.

Testo—Micron vacuum gauge with wireless Bluetooth communication to smartphone; 1 micron resolution; display data, create reports, and send via email or SMS.

Test Products International—Temperature compensated, 300 psi overpressure digital vacuum pressure gauge detects leaks created by vacuum, 7 units of measure.

UEI Test Instruments—Provides in-field calibration, analog bar graphs, easy sensor cleaning, and oil contamination sensors.

4FY27

5UET3

Description	Measuring Range	Power Supply	Brand	Mfr. Model	Item No.
Gauges					
Electronic	50 to 5000 Microns	9V Battery	Supco	VG60	**1TC70**
Digital	0 to 19,000 Microns	AAA (3), Not Included	Supco	VG64	**4FY27**
Digital	0 to 19,000 Microns	(3)AA Batteries	Supco	VG640D	**20LR01**
Digital Wireless	0 to 12,000 Microns	Rechargeable Lithium Polymer Battery	JB Industries	SH-35N	**415F94**
Digital Wireless	10 to 12,000 Microns	Rechargeable Lithium Polymer Battery	JB Industries	DV-40S	**35YX36**
Digital	10 to 200,000 Microns	AC or Batteries	JB Industries	DV-41	**5UET3**
Digital	10 to 100,000 Microns	9V Battery	JB Industries	DV-24N	**3TRC2**
Digital	0 to 600 psi	—	Yellow Jacket	69196	**29AU24**
Digital	1 to 760,000 Microns	D Cell Battery	Yellow Jacket	69075	**12H948**
Digital	5 to 25,000 Microns	(2) AA Batteries	Yellow Jacket	69020	**423N91**
Digital	10 to 25,000 Microns	9V Battery	Yellow Jacket	69086	**9XHF8**
Digital	25 to 100,000 Microns	9V Battery	Yellow Jacket	69080	**9XGJ8** *
Digital	1 to 760,000 Microns	9V Battery	Inficon	710-202-G1	**12N632** *
Digital with Bluetooth	0 to 20,000 Microns	(2) AA Batteries	Testo	0560 5522 01	**49ZZ64**
Digital	15 to 12,000 Microns	9V Battery	Test Products Intl.	605	**3KNP6**
Digital	0 to 15,000 Microns	3V Battery	UEI Test Instruments	DMG150	**407M22**
Digital	5 to 10 Microns	(3)AA Batteries	Robinair	RAVG-1	**406P95**

Description	Brand	Mfr. Model	Item No.
Replacement Parts & Accessories			
Vacuum Sensor, For Use With Mfr. No. 69086	Yellow Jacket	69087	**10M817**

***** *Battery included.*

A.
45JT41

B.
12N633

C.
12H951

C.
38D890

C.
38D891

C.
38D892

C.
38D895

D.
38D894

D.
6AWP9

E.
38D883

F.
38D888

G.
33NR63

H.
4PDJ4

H.
3DXD7

H.
38D862

H.
20W312

I.
3DXD6

I.
36J605

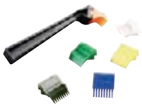
J.
1CXH1

J.
3DXF2

J.
5UET4

K.
38D881

L.
2YJ78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2YJ76

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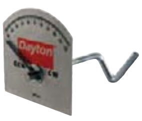

N.
2PYL9

N.
2PYL8

HVAC and Refrigeration Service Tools

Choose the tools you need from the brands you trust.

Description	Brand	Mfr. Model	Item No.
A. Gas Pressure Testers			
Op. Range 0 to 10 (in. WC), Slack Tube 36.0 in, Max. Temp. 120°F, Incl. Barb Fitting, Case	Yellow Jacket	78055	**K4559**
Op. Range 0 to 35 (in. WC), Slack Tube 36.0 in, Max. Temp. 120°F, Incl. Barb Fitting, Case	Yellow Jacket	78060	**K4559**
Manometer, Op. Range -19.95 to 19.95 in wc, Accy. ±1.5% of Full Scale, Incl. Tubing, Fittings	Yellow Jacket	78052	**45JT41**
B. Gas Leak Detectors			
Detects Combustible Gases and Flammable Refrigerants; Intrinsically Safe; Audible/LED Alarms; Incl. 2 D Batteries & Case	Inficon	718-202-G1	**12N633**
Detects Combustion Gases; Smart Alarm, LED; Incl. 4 AA Batteries, Case	Yellow Jacket	69373	**38D901**
Detects Nitrogen, , Uses 4 AA Batteries, Incl. Case	Yellow Jacket	69341	**38D902**
C. Flaring/Swaging Tools			
Flaring Tool, 45° Single Lap, O.D. ⅛ in, ¾ in, Incl. Automatic Height Gauge, Cushioned Handle	Yellow Jacket	60278	**12H951**
Flaring Tool, 45° Single Lap, O.D. 3/16 in, ¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, ⅝ in, Incl. Case	Yellow Jacket	60210	**38D890**
Flaring Tool, 45° Single Lap, O.D. ¾ in, Incl.	Yellow Jacket	60295	**38D893**
Flaring and Burnishing Tool, 45° Single Lap, O.D. 3/16 in, ¼ in, 5/16 in, ⅜ in, 7/16 in, ½ in, ⅝ in, Incl.	Yellow Jacket	60270	**38D891**
Flaring and Swaging Tool, 45° Single Lap, O.D. ¾ in, Incl. (2) Flaring Bars, (6) Swage Adapters, Flaring Cone, Steel Yoke, Tool Case	Yellow Jacket	60440	**38D892**
Swaging Tool, O.D. 3/16 in, ¼ in, 5/16 in, ⅜ in, ½ in, ⅝ in	Yellow Jacket	60460	**38D895**
Swaging Tool, Punch, O.D. ¼ in, ⅜ in, ½ in, ⅝ in	Yellow Jacket	60475	**38D896**
Kit, Flares ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, Swages 3/16, ¼, 5/16, ⅜, ½, ⅝, ¾, Cuts ⅛ in up to 1⅛ in Pipe	Imperial	275-FSC	**33NR64**
D. Tube Benders			
3-in1, 180°, O.D. ¼ in, 5/16 in, ⅜ in	Yellow Jacket	60390	**38D894**
Set, 0° to 90°, One-Handed, O.D. ¼ in, 5/16 in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in	—	—	**6AWP9**
E. Tube Expander Kits			
O.D. ⅜ to 1 ⅛ in	Yellow Jacket	60407	**38D882**
Hydraulic, O.D. ⅜ to 1½ in	Yellow Jacket	60493	**38D883**
O.D. ¼ in, 5/16 in, ⅜ in, ½ in, ⅝ in, ¾ in, ⅞ in, 1 in, 1 ⅛ in	CPS Blackmax	BTLE9	**406D64**
F. Tube Cutters			
Tubing Cutter with Reamer, O.D. ⅛ to 1⅛ in	Yellow Jacket	60101	**38D884**
Tubing Cutter with Reamer, O.D. 1 to 1⅝ in	Yellow Jacket	60102	**38D885**
Tubing Cutter, O.D. ⅛ to ⅝ in	Yellow Jacket	60160	**38D886**
Tubing Cutter, O.D. ¼ to ⅞ in	Yellow Jacket	60121	**38D887**
Tubing Cutter, O.D. ¼ to 1⅛ in	Yellow Jacket	60142	**38D888**
G. Pinch-Off Tool			
O.D. ¼ to ½ in	Imperial	105-FFSP	**33NR63**
H. Valve Core Tools			
Evacuation/Core Removal, Core Storage, For ¼ Schrader Valve	—	—	**4PDJ5**
Core Remover w/ Hollow Storage Handle, For ¼ Schrader Valve	—	—	**4PDJ4**
¼ in Valve Core Remover with Access Port	JB Industries	A32525N	**3DXD7**
Vacuum/Charge & Core Remover, Side Port, 5/16 in	Yellow Jacket	18985	**38D863**
Vacuum/Charge & Core Remover, Side Port, ¼ in	Yellow Jacket	18975	**38D862**
Valve Core Removal Tool, 1.625 in	JB Industries	CM-CRTOOL	**415F99**
Valve Core Remover, ¼ in	JB Industries	A32500N-G	**20W311**
Valve Core Remover Tool, ¼ in	JB Industries	A32004-G	**20W310**
Valve Core Torque Tool, ¼ in, Automatically Torques to 5 lb.	JB Industries	A32008	**20W312**
I. Evacuation/Recovery Tools			
Plier-Type Evacuation/Recovery Tool, Fits 3/16 to ⅞ in O.D. Hard Tubing	JB Industries	A32100	**3DXD6**
Line Piercing Recovery Tool, ¼ to ½ in O.D., Incl. Spare Gasket	Imperial	PT-109	**36J605**
J. Access & Service Valves			
Kit: Valves, Valve Core Tool, Cores, Plastic Core Remover	JB Industries	AVK-001	**36P062**
Swivel Tee with Depressor, Swivel Nut on Run	Ranco	30-110	**1CXH1**
Back Seating Service Control Valve ¼ SAE x ¼ O-Ring Quick Coupler	JB Industries	A33000	**3DXF2**
Nitrogen Purging Adaptor	JB Industries	BRZ-1000	**5UET4**
K. Service Wrenches (See Page 785 for Additional Wrenches)			
Hex Key Adapter,	JB Industries	T2-HKA	**20W313**
Hex Key Adapter, ¼ in	Yellow Jacket	60609	**38D881**
Micrometer Torque Wrench, ⅜ in	JB Industries	CM-TRQ	**415G02**
L. Fin Combs			
Fin Comb, All Fin Sizes	Supco	UFC1	**407L17**
Fin Comb, Heavy-Duty Bicycle Grip Handle, Fits All	DiversiTech	T-300	**2YJ78**
Kit: 1 Handle & 6 Heads, Fits 13,15,16,17,18, and 20 Fins per Inch	DiversiTech	T-101	**2YJ77**
Kit: 1 Handle & 6 Heads, Fits 8,9,10,11,12, and 14 Fins per Inch	DiversiTech	T-100	**2YJ76**
Kit: 6 Fins, Fits 8 to 20 Fins per Inch	Yellow Jacket	61158	**29AU42**
M. Drain Cleaning Gun			
Drain Cleaning Gun	Dayton	491A19	**491A19**
Replacement CO_2 Cartridges, Pkg. Qty. 12	Dayton	491A20	**491A20**
N. Miscellaneous Service Tools			
Condensate Drain Valve	Supco	JV1B	**35PT84**
Fan Blade Pitch Gauge	Dayton	—	**2PYL9**
Filter Puller, 8 in	Supco	FP18	**35PT88**
Filter Puller, 48 in	Supco	FP48	**48XL60**
Flame Sensor Cleaner	Supco	FSC10	**48XL62**
Fan Blade/Wheel Puller, Fan & Wheel; Incl. 4 Jaws, Plastic Centering Sleeve, Hardened Bolt, 4 Locking Bolts, Instructions	Dayton	—	**2PYL8**
Hybrid Jumper	Supco	HYB1YL	**48XL61**

Coil Cleaners

Nu-Calgon

22NV40

1ANG9

1ANJ6

1ANU1

Description	Size	Mfr. Model	Item No.
Condenser Cleaners			
Alka-Brite Plus, Alkaline Foaming	1 gal	4120-08	**1ANJ5**
Cal-Blast, Aerosol No-Rinse Solvent	20 oz	4132-20	**20LP96**
CalClean, Alkaline	2.5 gal	4135-06	**22NV40**
Green Select Cal-Green, EPA Safer Choice	1 gal	4190-08	**3CFP2**
Nu-Blast, Aerosol, No-Rinse Solvent	18 oz	4290-75	**2RZW5**
Nu-Brite, Aerosol Alkaline, USDA	18 oz	4291-18	**1ANJ2**
Nu-Brite, Alkaline Foaming, USDA	1 gal	4291-08	**1ANG9**
	2.5 gal	4291-05	**1ANJ1**
TriClean 2x, Alkaline	1 qt	4372-24	**22NV39**
Tri-Pow'r HD, Alkaline Indoor/Outdoor	1 gal	4371-88	**22NV38**
Evaporator Cleaners			
Evap Foam-No-Rinse, Aerosol Foaming, No-Rinse	18 oz	4171-75	**1ANJ6**
Evap-Fresh, Disinfectant, No-Rinse, EPA Registered Aerosol	18 oz	4166-75	**2RZW3**
Evap-Fresh, Disinfectant, No-Rinse, EPA Registered	1 gal	4166-08	**2RZW2**
Evap Pow'r-C, Alkaline, No-Rinse	1 gal	4168-08	**1ANJ3**
	2.5 gal	4168-05	**1ANJ4**
Green Select Evap-Green, EPA Safer Choice No-Rinse	1 gal	4191-08	**3CFP3**
Condenser or Evaporator Cleaners			
Blackhawk Expanding Foam, Aerosol, NSF	18 oz	4127-75	**40TC84**
Cal-Brite, Acid	1 gal	4133-08	**20LP90**
Special HD CalClean, Alkaline	1 gal	4143-08	**3CFR6**
Detergent, USDA	2.5 gal	4143-06	**20LP91**
Accessories			
Coil Gun Sprayer	2 qt.	4774-0	**1ANU1**
Coil Gun Probe		4774-1	**40TC91**

Nu-Calgon

Ice Machine Cleaners

22NV29

Description	Size	Mfr. Model	Item No.
Nickel Safe, Food Grade, 1 gal	1 gal	4287-08	**22NV29**
Nickel Safe, Food Grade, 16 oz	16 oz	4287-34	**3CFP9**
IMS-III Sanitizer, EPA Registered	16 oz	4211-34	**45YY10**
Liquid Cleaner, Food Grade	8 oz	4207-47	**22NV27**
	1 gal	4207-08	**22NV28**

simple green® Nu-Calgon

Foaming Coil Cleaner

Nonflammable, biodegradable, and quickly removes dirt, grime, and grease. Foaming action is ideal for hard-to-reach areas. NSF C1 and P1 Registered, except 410X95.

45JE32

Description	Size	Brand	Mfr. Model	Item No.
Alkaline, Liquid, Self-Rinsing Formula	1 gal	Simple Green	0110000404001	**45JE32**
	5 gal	Simple Green	0100000104005	**45JE33**
	55 gal	Simple Green	0100000104055	**45JE34**
Alkaline, Liquid, Foaming and Brightening. Not For Use on Evaporator Coils.	1 gal	Nu-Calgon	4178-08	**410X95**
Alkaline, Aerosol, Foaming	20 oz	Simple Green	0110001213418	**19ZN60**

Portable Coil and Tube Cleaning Systems

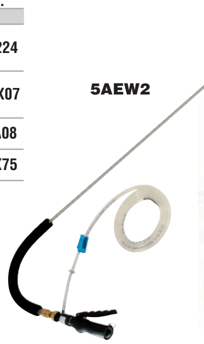
SPEEDCLEAN GOODWAY®

These compact, easy-to-use cleaning systems save time and increase system efficiency. Models are designed to clean coils up to 8 inches thick, shell and tube condensers, and straight-tubed heat exchangers.

38G224

29JA08

Description	Includes	GPM	Volts/ Phase	Hose Dim.	Net Weight	Brand	Mfr. Model	Item No.
Cleaning Systems								
CoilJet Rechargeable Battery-Operated Coil Washer, 125 psi, Self-Contained, Integrated 3.375 gal. Water Tank & 1.75 qt. Chemical Tank	(2) Spray Nozzles, Battery, Charger & Shoulder Strap	0.6 gpm	12V DC	¼ in x 10 Ft	23 lb	SpeedClean	CJ-125	**38G224**
CoilJet-200E Electric-Powered Coil Washer, 200 psi, Continuous Water Supply Option, Integrated 3.375 gal. Water Tank & 1.75 qt. Chemical Tank, 15 ft. Cord	(2) Spray Nozzles, 15 ft GFCI Power Cord, Shoulder Strap	0.5 gpm	115	¼ in x 10 ft	20 lb	SpeedClean	CJ-200e	**52WX07**
FlowJet Electric Coil Cleaning System, 400 psi, 25 ft. Cord	(2) Nozzles, Hose, Spray Gun with Lance	2.5 gpm	115/1	½ in x 12 ft	35 lb	SpeedClean	FLOWJET-60	**29JA08**
Electric Heat Exchanger Tube Cleaner, Nylon-Cased Shaft with Reversible Rotation, 20 ft. Cord	Reversible Foot Pedal	2.5 gpm	115/1	—	38 lb	Goodway	I-RAM-EX-100	**409X75**



5AEW2

Description	Type	Max. Flow (gpm)	Brand	Mfr. Model	Item No.
CoilJet Cleaning Accessories					
Condenser Needle Cleaning Wand, 150 psi Max. psi Max.	36 in L 90° Fan Spray	3.5 gpm	SpeedClean	CN-03	**5AEW2**
Spray Wand, 200 psi Max. psi Max.	36 in L 90°	0.5 gpm	SpeedClean	8945	**5AEU4**
	48 in L 90°	0.5 gpm	SpeedClean	8945-48	**5AEU5**
Stainless Steel 3-ft. Sectional Wand, 200 psi Max. psi Max.	90°Fan Spray	0.5 gpm	SpeedClean	CJ-WWSS	**5AEW0**
Extension for 5AEW0 Wand, 150 psi Max. psi Max.	16 in L	0.5 gpm	SpeedClean	CJ-WWSS-EXT	**5AEW1**
Foaming Nozzle Assembly, 150 psi Max. psi Max.	—	0.5 gpm	SpeedClean	CJ-9619	**5AEU8**
Lance Assembly, 4,000 psi Max. psi Max.	24 in Extension	4 gpm	SpeedClean	CJ-9656	**5AEW4**
	36 in Extension	4 gpm	SpeedClean	CJ-9657	**5AEU9**
CoilJet Battery & Charger, 12V DC, For 38G224					
Sealed Lead Acid Battery	—	—	SpeedClean	CJ-9613	**29JA02**
Spare Battery Kit	Low Maintenance, Rechargeable	—	SpeedClean	CJ125-KIT-SB	**29JA01**
External Battery Charger	Smart Charger	—	SpeedClean	CJ2-24	**29JA03**

5AEV7

Size	Brand	Mfr. Model	Pkg. Qty.	Item No.
SpeedyFoam Biodegradable Foaming Coil Cleaner				
1 gal	SpeedClean	SC-FCC-1	1	**5AEV7**
(4) 1 gal Containers	SpeedClean	SC-FCC-4X1	4	**5AEV8**
5 gal	SpeedClean	SC-FCC-5	1	**5AEV9**

Portable Scale Removal Systems

GOODWAY® SPEEDCLEAN

Systems clean heat exchangers and other closed-loop systems to improve efficiency and extend the life of your equipment. Designed with acid-proof components, units safely contain chemicals to minimize fumes, splashes, and risk to operator safety. Hands-free models monitor pH levels and inject additional chemicals as needed.

52WU87

52WU85

490W72

Description	Includes	Flow (gpm)	Tank Size	Motor Size	Voltage	Amps	Cord Length	Net Weight	Mfr. Model	Item No.
Goodway										
For Smaller Heat Exchangers, Compressors, Coolers, 50 Tons & Smaller	(2) 10 ft Circulation Hoses with Multiple Fittings, Flow Reversal Valve, Tank	15 gpm	10 gal	½ hp	115 V	7.6	18 ft	37 lb	GDS-C40	**52WU87**
For Boilers, Chillers, Large Heat Exchangers, 50 Tons & Larger		21 gpm	15 gal	¾ hp	115 V	8.6	18 ft	50 lb	GDS-C92	**52WU88**
		21 gpm	15 gal	¾ hp	230 V	4.3	18 ft	50 lb	GDS-C92A	**52WU89** *
Hands-Free Operation, For Boilers, Chillers, Large Heat Exchangers, 50 Tons & Larger	(2) 15 ft Circulation Hoses, Monitoring System, pH Probe, Venting Drum	30 gpm	15 gal	¾ hp	115 V	11	21 ft	125 lb	GDS-15-PH	**52WU85**

Description	Brand	Mfr. Model	Item No.
Descaling Solutions, 5-gal. Container†			
ScaleBreak, Biodegradable, For Brass, Copper, Iron, Plastic, Rubber, Steel	Goodway	SCALEBREAK-5	**490W72**
ScaleBreak-SS, Biodegradable, For Brass, Copper, Iron, Plastic, Rubber, Stainless Steel, Steel	Goodway	SCALEBRK-SS-5	**490W77**

** Requires 230V plug, comes standard with 3-wire pigtail. † Larger sizes available on Grainger.com.*

A/C Drain Pan Treatments

3CFR4

Description	Size	Mfr. Model	Item No.
Nu-Calgon			
Gel Tabs, Protects Against Clogs, Eliminates Odors	3 tons Tablets	4185-03	**3CFR4**
	5 tons Tablets	4185-05	**3CFR5**
	15-ton Tab	4185-15	**22NV43**
	20-ton Tab	4185-20	**22NV42**
Pan-Treat, Controls Odors, Prevents Overflows & Water Damage	Bottle	4296-60	**22NV26**
PanPads, Controls Slime Build-up, Bacteria & Odors	1 Pad, 5-ton	4295-34	**22NV60**
	1 Pad, 15-ton	4296-24	**22NV61**
PurCool Green Strip, Prevents Slime, Sludge & Odors	1 Mini Strip, 5-ton	61044	**40TC93**
	1 Strip, 10-ton	61045	**40TC94**
	1 Strip, 30-ton	61046	**40TC95**
PurCool Green Tablet, Prevents Slime, Sludge & Odors	5-ton Tab	61051	**40TC96**
Drain Sucker Kit, Clears Clogged Pans From Inside or Outside		61308	**20LP94**
Diversitech			
Flow-Plus, Controls Slime, Maintains Flow, Biodegradable	10 oz Tub	FLOW-PLUS-10	**3HAH3**
	1.25 lb Tub	FLOW-PLUS-125	**3HAH2**

Freez-Kontr'l Antifreeze

Blue color aids in leak detection. Ideal for hydronic, chilled water, and other closed systems.

20LP86

Description	Size	Mfr. Model	Item No.
Freez-Kontr'l, 70% Propylene Glycol	1 gal	4188-07	**20LP86**
	5 gal	4188-05	**20LP85**
	55 gal	4188-02	**20LP87**
Freez-Kontr'l 95/5, 95% Propylene Glycol, USDA	5 gal	4188-06	**45YY09**
	55 gal	4188-03	**45YY08**
Glycometer Glycol Refractometer Kit		61301	**40TD02**

Refrigeration Lubricants and Oils

22NV46

Emkarate RL Polyol Ester Lubricants—OEM approved, including Copeland approved RL32-3MAF. Designed for CFC, HCFC, and HFC applications; compatible with mineral oils, alkylbenzenes and PAGs.

Zerol Alkylbenzene Refrigeration Oil—Excellent miscibility and compatibility with all CFC and HCFC refrigerants. OEM recommended for HCFC-based service blends. Great for retrofitting with R401b, R402b, and R123. 22NV51 is Copeland approved.

A/C Re-New Lubricant Additive—Quiets noisy compressors, improves heat transfer, and reduces energy consumption.

Mineral Oil—Naphthenic oils are OEM recommended for use with CFCs and HCFCs, and approved by Copeland and Carlyle.

Viscosity (ISO)	Viscosity (SUS @ 100°F)	Container Size	Brand	Mfr. Model	Item No.
Emkarate RL Polyol Ester Lubricants					
32-3MAF	150 SUS	1 qt	Nu-Calgon	4314-64	**22NV53**
32-3MAF	150 SUS	1 gal	Nu-Calgon	4314-66	**22NV54**
32H	150 SUS	1 qt	Nu-Calgon	4314-44	**22NV55**
32H	150 SUS	1 gal	Nu-Calgon	4314-46	**22NV56**
68H	300 SUS	1 qt	Nu-Calgon	4316-44	**22NV57**
68H	300 SUS	1 gal	Nu-Calgon	4316-46	**22NV58**
68H	300 SUS	5 gal	Nu-Calgon	4316-45	**22NV59**
Zerol Alkylbenzene Refrigeration Oil					
32	150 SUS	1 gal	Nu-Calgon	4310-07	**22NV50**
46	200 SUS	1 gal	Nu-Calgon	4308-07	**22NV51**
68	300 SUS	1 gal	Nu-Calgon	4311-07	**22NV52**
A/C Re-New Lubricant Additive					
—	—	4 oz	Nu-Calgon	4057-55	**40TC82**
Mineral Oil					
32	150 SUS	1 gal	Nu-Calgon	4303-07	**22NV46**
32	150 SUS	5 gal	Nu-Calgon	4303-05	**22NV47**
68	300 SUS	1 gal	Nu-Calgon	4304-07	**22NV48**
68	300 SUS	5 gal	Nu-Calgon	4304-05	**22NV49**
Accessories					
Refrigeration Oil Analysis Kit			Nu-Calgon	4996-0	**22NV62**
Refrigeration Oil Refractometer			Nu-Calgon	4815-0	**22NV63**
Oil Pump			Nu-Calgon	4814-40	**22NV64**
Oil Pump			Yellow Jacket	77930	**38D903**

Refrigeration Service Test Kits, Chemicals, and Sealers

3MRG1

1ANJ9

13D664

4PDF1

Description	Size	Brand	Mfr. Model	Item No.
Acid Treatment and Neutralizers				
ACID-BUSTER Injection Kit, Amber, Clear Yellow	(2) 0.52 oz Cartridges	Spectroline	AB-100CS	**14A019**
ACID-BUSTER, Amber, Clear Yellow	0.5 oz	Spectroline	AB-5CS	**14A020**
RX-Acid Scavenger, Internal, White, Liquid, Unpressurized	2 fl oz	Nu-Calgon	4301-02	**3CFP4**
RX-Acid Scavenger, Internal, Clear, Pressurized Can	3.8 oz	Nu-Calgon	4301-05	**40TC89**
Leak Detectors				
Cal Blue Plus, Liquid Spray Bottle	1 qt	Nu-Calgon	4182-24	**1ANJ8**
Cal Blue LT, High Viscosity, Low Temp.	1 qt	Nu-Calgon	4183-24	**2RZW4**
Fluorescent Gas Leak Detector, Gold	8 oz	Nu-Calgon	4184-53	**3CFR3**
Liquid Gas Leak Locator	8 oz	Parker-Virginia	GL6	**4E845**
Trax Bubble Leak Detector	10 oz	Highside	HS24010	**30ZY94**
Scale Inhibitors, Removers				
Eco-Lyme Scale Remover, Clear	1 gal	Nu-Calgon	4167-08	**40TC86**
Liquid Scale Dissolver, Reddish Orange	1 gal	Nu-Calgon	4330-08	**22NV31**
	5 gal	Nu-Calgon	4330-05	**22NV32**
Season Treat, Scale and Corrosion inhibitor, White	5 lb	Nu-Calgon	4364-88	**2RZW6**
Vital-Flo Scale Remover Kit for Tankless Water Heater, Black/Blue/White	2"W x 30-Ft.L x 1/8"T Roll	Nu-Calgon	4387-01	**40TC90**
Drain Cleaner				
Calci-Solve Descaler, Straw Color	1 gal	Nu-Calgon	4134-08	**10C739**
Heat Sink Compound				
Cool Gel Heat Dissipating Spray	1 qt	JB Industries	11509	**3MRG1**
Thermo-Trap Heat-Sink Paste, Tan	11 oz	Nu-Calgon	4371-36	**3CFP7**
Thermo-Trap Heat-Sink Gel, Gray	1 qt	Nu-Calgon	4371-32	**10C738**
Repair/Sealing Compound				
Leak Lock Joint Sealing Compound	1.33 oz	Highside	HS10001	**30ZY81**
	4 oz	Highside	HS10004	**30ZY82**
Leak Lock Gold Joint Sealing Compound	1 oz	Highside	HS11001	**30ZY83**
	4 oz	Highside	HS11004	**30ZY84**
Pan-Spray Rubberized Coating, White	16 oz	Nu-Calgon	4296-50	**1ANJ9**
Pan-Spray, Rubberized Coating, Black	16 oz	Nu-Calgon	4296-51	**20LP95**
Tape				
Butyl Rubber & Bituman, Black	30 ft. L x 2" W x 1/8" T	—	4PDE9	**4PDE9**
Hi-Temp. Cork Tape, Tan	2"W x 30 ft.	Parker Virginia	PTH1	**29VN24**
Foam Tape, Black	2"W x 30 ft. L x 1/8"T	—	4PDF1	**4PDF1**
Insulation Tape	2"W x 30-Ft.L x 1/8"T Roll	Parker Virginia	K502	**4E309**
Epoxy Sealer				
Laco Heat-Seal Stik, Premixed Epoxy Sealer, Green	0.38 oz	JB Industries	11575	**20HJ92**
Red Epoxy Metal Sealant Kit	0.5 oz	Highside	HS12001	**30ZY85**
Sealing Gum				
Block, Non-Drying, Pliable, Water-Resistant, Gray	2 lb	—	4PDF4	**4PDF4**
Insulation Cord, 100 ft., Gray	100 ft	—	4PDF5	**4PDF5**
Sealing & Caulking Cords, White	⅜ in x 25 ft	Nu-Calgon	4216-27	**22NV37**
Sealing Gum	2 lb	Parker Virginia	PP-22	**4E307**
	3⁄16 in x 100 ft	Parker Virginia	PP-33	**4E308**
Thumb-Tite Sealing Compound, White	2 lb	Nu-Calgon	4216-92	**22NV36**
Insulating Sealants, Cleaner/Protectants, Penetrating Oil				
Nu-Foam Expanding & Insulating Sealant, Aerosol, Beige	12 oz	Nu-Calgon	4293-04	**40TC87**
A/C Shine Compressor Surface Cleaner/Protectant, Aerosol	12 oz	Nu-Calgon	61118	**40TD01**
Penetrate HD Super Penetrating Oil, Aerosol	12 oz	Nu-Calgon	61105	**40TC99**
Refrigerant Leak Repair Kits				
A/C EasySeal-SS, Up to 1½ tons Systems		Nu-Calgon	4050-01	**13D662**
A/C EasySeal, 1½ to 5 tons Systems		Nu-Calgon	4050-06	**13D664**
A/C EasySeal, 1½ to 5 tons Systems, 2 Cans & Hose Kit		Nu-Calgon	4050-02	**13D663**
A/C EasySeal Direct Inject, Up to 10 tons System		Nu-Calgon	4050-08	**45JR91**
A/C EasySeal Direct Inject, Up to 5 tons System, Pk. 6		Nu-Calgon	4050-07	**45JR90**
A/C Piercing Valve & Hose, For Use With 4050-01, 4050-02, 4050-06		Nu-Calgon	4051-99	**13D665**
Cool Seal EZ-Ject Kit, Up to 4 tons Systems		Spectroline	CS-100CS	**34GR08**
Cool Seal EZ-Ject Cartridge, Up to 2 tons Systems		Spectroline	CS-1CS	**34GR09**

20LP88

22NV33

2RZW7

Nu-Calgon

Refrigeration System Flush Kits

Clean interior of coil lines in refrigeration or air conditioning systems after a compressor failure, burnout, or in R410 conversions.

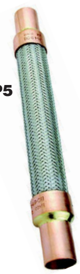
Description	Size	Mfr. Model	Item No.
Rx11-Flush Liquid (Unpressurized) Starter Kit	Liquid, Tank, Hose, Gun	4300-38	**20LP89**
Rx11-Flush Liquid (Unpressurized)	19.5 oz	4300-30	**20LP88**
Rx11-Flush Starter Kit	1 lb. Can, Hose, Gun, Valve	4300-08	**22NV33**
Rx11-Flush (Pressurized)	1 lb	4300-09	**10C740**
	2 lb	4300-11	**2RZW8**
Rx11-Flush (Pressurized) 2 Cans & 1 Injection Valve	(2) 2 lb	4300-10	**2RZW7**
Flush Line Set Tool, For 4300-09		4300-50	**2RZW9**
Flush Injection Tool, For 4300-09		4300-89	**12T749**

KMP INTERNATIONAL

Vibration Absorbers

Stainless steel hose and braid with solid copper sweat connections. Compatible with CFC, HCFC, and HFC refrigerants.

1VNH9



6AWP5

Connec. Size (in.)	Overall Length (in.)	Burst Pressure (psi)	Max. Working Pressure (psi)	VIRGINIA KMP Mfr. Model	VIRGINIA KMP Item No.	APPROVED VENDOR Mfr. Model	APPROVED VENDOR Item No.
⅜ in	8 ¼ in	2,625 psi	650 psi	VAB3SS	**1VNH9**	—	—
⅜ in	8 ½ in	2,625 psi	650 psi	—	—	—	**6AWP2**
½ in	9 in	2,625 psi	650 psi	VAB4SS	**1VNJ1**	—	**6AWP3**
⅝ in	9 ¾ in	2,500 psi	650 psi	VAB5SS	**1VNJ2**	—	**6AWP4**
⅞ in	11 ½ in	2,500 psi	650 psi	VAB7SS	**1VNJ3**	—	—
⅞ in	12 in	2,500 psi	650 psi	—	—	—	**6AWP5**
1 ⅛ in	13 in	2,500 psi	600 psi	VAB9SS	**1VNJ4**	—	**6AWP6**
1 ⅜ in	14 ¾ in	2,500 psi	550 psi	VAB11SS	**1VNJ5**	—	**6AWP7**
1 ⅝ in	17 in	2,000 psi	510 psi	VAB13SS	**1VNJ6**	—	—

6X722

Parker

Sight Glass Moisture Indicators

Parker models have solid copper ends and are UL Listed for 650 psig strength. Approved Vendor models have copper-plated steel ends.

Fitting Size	PARKER Mfr. Model	PARKER Item No.	APPROVED VENDOR Mfr. Model	APPROVED VENDOR Item No.
Sweat				
¼ x ¼	PSG-2S	**6X722**	—	**6AWU2**
⅜ x ⅜	PSG-3S	**6X723**	—	**6AWU3**
½ x ½	PSG-4S	**4E924**	—	**6AWU4**
⅝ x ⅝	PSG-5S	**4E927**	—	**6AWU5**
⅞ x ⅞	PSG-7S	**4E928**	—	**6AWU6**
Flare				
⅜M x ⅜F	PSG-3MF	**6X720**	—	—

3ZG62

4LFC4

5DPW5

52VN89 (Tank not included)

FORANE REFRIGERANTS ARKEMA

SUPERCOOL

ROBINAIR

Refrigerants

Each cylinder has a pressure relief device.

10U329

Note: The Federal Clean Air Act restricts the sale and use of CFC and HCFC refrigerants to technicians certified by an EPA-approved testing organization.

Refrigerant prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current market price.

Description	Lubricant	Brand	Item No.
Stationary A/C			
R-22, Green 30 lb	Mineral Oil, Alkyl Benzene, Polyester	Forane	**2W198**
R-407C, Brown 25 lb	Polyol Ester	Forane	**4LFC3**
R-410A, Pink 25 lb	Polyol Ester	Forane	**3ZG62**
R-427A, Green 25 lb	Mineral Oil, Alkyl Benzene, Polyol Ester	Forane	**4LFC4**
Refrigeration			
R-134a, Blue 30 lb	Polyol Ester	Forane	**5E057**
R-404A, Orange 24 lb	Polyol Ester	Forane	**6E862**
R-407A, Green 25 lb	Polyol Ester	Forane	**4LFC2**
R-408A, Purple 24 lb	Mineral Oil, Alkyl Benzene, Polyol Ester	Forane	**3L429**
R-507A, Teal 25 lb	Polyol Ester	Forane	**6U580**
Automotive			
R-134A, Automotive, Blue 30 lb	Polyalkylene Glycol, Polyol Ester	Forane	**1D220**
134A, 12 oz Can	—	Supercool	**5DPW4**
134A Plus Stop Leak, 12 oz Can	—	Supercool	**5DPW5**
134A Plus Sealer, Leak Detector, & Performance Enhancer, 14 oz	PAG	Supercool	**5DPW6**
134A Plus Sealer, Leak Detector, & Performance Enhancer, 19 oz	PAG	Supercool	**5DPW7**

Description	Brand	Item No.
Accessories		
Refrigerant Tank Heater for 30 to 50 lb Tanks	Robinair	**52VN89**
Side Can Tap w/ 2 Adapters, For Disposable Refrigerant Cylinders, Manual	—	**10U329**

20HM48

5AGZ8

444H47

Copeland Embraco SECOP LG

Compressors

Note: For additional compressors including R-410A, see Grainger.com.

Voltage	BtuH*	Base Mount L	Base Mount W	Line Connection Discharge I.D.	Line Connection Suction I.D.	Brand	Mfr. Model	Item No.
R22 1 Phase, Split System and Packaged AC Compressors								
208/230	15,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR16K5E-PFV-800	**20HM58**
208/230	16,300 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR16K6E-PFV-875	**20HM13**
208/230	18,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-PFV-875	**20HM14**
208/230	18,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR18K5E-PFV-800	**20HM59**
208/230	19,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR20K6E-PFV-875	**20HM17**
208/230	21,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-PFV-800	**20HM61**
208/230	22,100 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR22K6E-PFV-875	**20HM18**
208/230	24,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-PFV-875	**20HM19**
208/230	25,300 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR25K5E-PFV-800	**20HM64**
208/230	28,200 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-PFV-875	**20HM22**
208/230	28,400 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-PFV-800	**20HM67**
208/230	30,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR30K6E-PFV-875	**20HM25**
208/230	32,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-PFV-875	**20HM26**
208/230	32,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-PFV-800	**20HM71**
208/230	34,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR34K6E-PFV-875	**20HM29**
208/230	35,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-PFV-875	**20HM30**
208/230	38,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-PFV-800	**20HM75**
208/230	38,200 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-PFV-875	**20HM33**
208/230	41,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-PFV-875	**20HM36**
208/230	42,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-PFV-800	**20HM79**
208/230	47,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-PFV-970	**20HM39**
208/230	48,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-PFV-800	**20HM83**
208/230	53,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-PFV-970	**20HM42**
208/230	53,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-PFV-800	**20HM87**
208/230	61,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-PFV-970	**20HM45**
208/230	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-PFV-930	**20HM97**
208/230	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-PFV-950	**20HM98**
R22 3 Phase, Split System and Packaged AC Compressors								
200/230	17,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-TF5-875	**20HM15**
380/460	17,700 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR18K6E-TFD-875	**20HM16**
200/230	21,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-TF5-800	**20HM62**
460	21,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR21K5E-TFD-800	**20HM63**
200/230	24,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-TF5-875	**20HM20**
380/460	24,000 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR24K6E-TFD-875	**20HM21**
200/230	25,300 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR25K5E-TF5-800	**20HM65**
460	25,300 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	S1-ZR25K5-TFD-800	**20HM66**
200/230	28,100 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-TF5-875	**20HM23**
460	28,100 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR28K6E-TFD-875	**20HM24**
200/230	28,400 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-TF5-800	**20HM68**
460	28,400 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR28K5E-TFD-800	**20HM69**
200/230	31,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-TF5-875	**20HM27**
460	31,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR32K6E-TFD-875	**20HM28**
200/230	32,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TF5-800	**20HM72**
460	32,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TFD-800	**20HM73**
575	32,600 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	ZR32K5E-TFE-800	**20HM74**
200/230	34,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-TF5-875	**20HM31**
460	34,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR35K6E-TFD-875	**20HM32**
200/230	37,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-TF5-875	**20HM34**
380/460	37,900 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR38K6E-TFD-875	**20HM35**
200/230	38,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TF5-800	**20HM76**
460	38,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TFD-800	**20HM77**
575	38,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR38K5E-TFE-800	**20HM78**
200/230	41,700 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-TF5-875	**20HM37**
460	41,700 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CR42K6E-TFD-875	**20HM38**
200/230	42,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TF5-800	**20HM80**
460	42,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TFD-800	**20HM81**
575	42,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR42K5E-TFE-800	**20HM82**
200/230	47,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-TF5-970	**20HM40**
380/460	47,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR47KQE-TFD-970	**20HM41**
200/230	48,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TF5-800	**20HM84**
460	48,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TFD-800	**20HM85**
575	48,200 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR48K5E-TFE-800	**20HM86**
200/230	53,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-TF5-970	**20HM43**
380/460	53,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	CR53KQE-TFD-970	**20HM44**
200/230	53,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TF5-800	**20HM88**
460	53,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TFD-800	**20HM89**
575	53,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR54K5E-TFE-800	**20HM90**
200/230	57,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TF5-830	**20HM93**
380/460	57,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TFD-930	**20HM94**
380/460	57,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR57KCE-TFD-950	**20HM95**
200/230	61,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-TF5-970	**20HM46**
380/460	61,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	Copeland	CRNQ-050E-TFD-970	**20HM47**
200/230	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TF5-930	**20HM99**
200/230	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TF5-950	**20HN01**
460	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFD-930	**20HN02**
460	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFD-950	**20HN03**
575	62,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR61KCE-TFE-930	**20HN04**
200/230	70,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TF5-930	**20HN05**
200/230	70,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TF5-950	**20HN06**
460	70,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TFD-930	**20HN07**
575	70,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR68KCE-TFE-930	**20HN08**
200/230	73,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR72KCE-TF5-950	**20HN09**
460	73,500 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	Copeland	ZR72KCE-TFD-950	**20HN10**
200/230	82,000 BtuH*	7 ½ in	7 ½ in	¾ in	⅞ in	Copeland	ZR81KCE-TF5-950	**20HN11**
460	82,000 BtuH*	7 ½ in	7 ½ in	¾ in	⅞ in	Copeland	ZR81KCE-TFD-950	**20HN12**
200/230	85,500 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR84KCE-TF5-950	**20HN13**
460	85,500 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR84KCE-TFD-950	**20HN14**
575	89,000 BtuH*	8 21/32 in	8 21/32 in	⅞ in	1 ⅜ in	Copeland	ZR90K3E-TWE-961	**20HN17**
200/230	96,500 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TF5-950	**20HN18**
460	96,500 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TFD-950	**20HN19**
575	96,500 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅛ in	Copeland	ZR94KCE-TFE-950	**20HN20**
200/230	109,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TF5-950	**20HM48**
460	109,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TFD-950	**20HM49**
575	109,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR108KCE-TFE-950	**20HM50**
575	127,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TFE-950	**20HM53**
200/230	128,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TF5-950	**20HM51**
460	128,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR125KCE-TFD-950	**20HM52**
200/230	144,000 BtuH*	21 ½ in	7 ½ in	¾ in	1 ⅛ in	Copeland	ZRT144KCE-TF5-950	**20HN21**
460	144,000 BtuH*	21 ½ in	7 ½ in	¾ in	1 ⅛ in	Copeland	ZRT144KCE-TFD-950	**20HN22**
200/230	146,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TF5-950	**20HM54**
460	146,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TFD-950	**20HM55**
575	146,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR144KCE-TFE-950	**20HM56**
460	163,000 BtuH*	21 ½ in	7 ½ in	1 ⅛ in	1 ⅛ in	Copeland	ZRT162KCE-TFD-930	**20HN23**
460	190,000 BtuH*	7 ½ in	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZR190KCE-TED-950	**20HM60**
200/230	191,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT188KCE-TF5-950	**20HN24**
460	191,500 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT188KCE-TFD-950	**20HN25**
575	191,500 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT188KCE-TFE-950	**20HN26**
200/230	252,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT250KCE-TF5-950	**20HN27**
460	252,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT250KCE-TFD-950	**20HN28**
575	252,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT250KCE-TFE-950	**20HN29**
200/230	319,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT320KCE-TW5-975	**20HN30**
460	319,000 BtuH*	19 ¾ in	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZRT320KCE-TWD-975	**20HN31**
R12 Refrigeration Compressors								
115	3,080 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF8.5BK	**5AGZ8**
115	3,240 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF10BX	**5AGZ9**
115	5,000 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FFI12BX1	**5AHA0**
R134A Refrigeration Compressors								
115	3,135 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF8.5HBK1	**5AHA2**
115	3,650 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FF10HBX1	**5AHA3**
115	3,756 BtuH*	4 in	6 ½ in	¼ in	5/16 in	Secop	NF10FX-1	**48TP45**
115	4,400 BtuH*	4 in	6 ½ in	¼ in	5/16 in	Embraco	FFI10HBX	**48TP38**
115	4,726 BtuH*	4 in	6 ½ in	¼ in	5/16 in	Secop	NF11FX.2-1	**48TP46**
115	5,300 BtuH*	6 ½ in	4 in	¼ in	5/16 in	Embraco	FFI12HBX1	**5AHA1**
115	5,496 BtuH*	4 in	6 ½ in	¼ in	5/16 in	Secop	SC15G-1	**48TP47**
115	6,200 BtuH*	4 in	6 ½ in	¼ in	⅜ in	Secop	SC18G-1	**48TP48**
115	6,626 BtuH*	4 13/16 in	8 in	¼ in	⅜ in	Embraco	NT6215Z	**48TP40**
R410A 1 Phase A/C Compressors								
208/230	15,200 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	LG	APB016KAA	**444H47**
208/230	15,500 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP16K5E-PFV-830	**40CH42**
208/230	20,000 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP20K5E-PFV-830	**40CH43**
208/230	20,500 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS20K4E-PFV-930	**40CH58**
208/230	21,300 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP21K5E-PFV-830	**40CH44**
208/230	22,500 BtuH*	7 ½ in	7 ½ in	½ in	¾ in	LG	APB024KAA	**444H49**
208/230	24,000 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP24K5E-PFV-830	**40CH45**
208/230	25,200 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP25K5E-PFV-830	**40CH46**
208/230	29,000 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZP29K5E-PFV-830	**40CH47**
208/230	30,900 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS30K4E-PFV-930	**40CH59**
208/230	34,500 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP34K5E-PFV-830	**40CH49**
208/230	36,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	LG	AQA036KAA	**444H52**
208/230	39,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP39K5E-PFV-830	**40CH50**
208/230	41,200 BtuH*	7 ½	7 ½ in	½ in	¾ in	Copeland	ZPS40K5E-PFV-800	**40CH60**
208/230	42,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP42K5E-PFV-130	**40CH51**
208/230	49,400 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP49K5E-PFV-830	**40CH52**
208/230	51,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP51K5E-PFV-830	**40CH53**
208/230	52,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZPS51K4E-PFV-930	**40CH61**
208/230	54,000 BtuH*	7 ½ in	7 ½ in	½ in	⅞ in	LG	ABA054KAA	**444H55**
R410A 3 Phase A/C Compressors								
200/230	51,500 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP51K5E-TF5-830	**40CH54**
200/230	61,500 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP61KCE-TF5-950	**40CH55**
460	83,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP83KCE-TFD-950	**40CH57**
200/230	101,000 BtuH*	7 ½	7 ½ in	½ in	⅞ in	Copeland	ZP83KCE-TF5-950	**40CH56**
200/230	107,000 BtuH*	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT108K3E-TF5-950	**40CH62**
460	107,000 BtuH*	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT108K3E-TFD-950	**40CH63**
460	123,000 BtuH*	7 ½	7 ½ in	⅞ in	1 ⅜ in	Copeland	ZP120KCE-TFD-950	**40CH41**
200/230	164,000 BtuH*	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT166KCE-TF5-950	**40CH64**
460	164,000 BtuH*	21 ½	7 ½ in	¾ in	1 ⅛ in	Copeland	ZPT166KCE-TFD-950	**40CH65**
200/230	210,000 BtuH*	19 ¾	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZPT206KCE-TF5-975	**40CH66**
200/230	270,000 BtuH*	19 ¾	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZPT274KCE-TF5-975	**40CH67**
460	270,000 BtuH*	19 ¾	10 in	1 ⅜ in	1 ⅝ in	Copeland	ZPT274KCE-TFD-975	**40CH68**

** Rated at 45°F evaporator, 130°F condenser, 95°F return, 115°F liquid, and 95°F ambient.*

Refrigeration Fittings and Repair Supplies

JB Industries—Access valves feature brass bodies and stainless steel/brass cores, and are machined according to ARI specifications. Tees are fully adjustable with extra-depth slip-fit braze cups; install anywhere along the line.

Connec. Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
¼ in Access Valves				
³⁄₁₆ in ODS x ¼ in or ⅜ in ODF	JB Industries	A31720-G	**20W301**	5
¼ in SAE M, ⅛ in ODS x ¼ in ODF	JB Industries	A31722	**3DXC1**	3
¼ in, ¼ in SAE M, ⅛ in ODS x ³⁄₁₆ in, ⁵⁄₁₆ in ODF	JB Industries	A31736	**3DXC8**	3
¼ in ODS x ⅜ in ODF, ¼ in SAE M	JB Industries	A31724	**3DXC3**	3
¼ in SAE M x ¼ SAE F	JB Industries	A31614	**3DXA9**	5
¼ in SAE M, ³⁄₁₆ in ODS x ¼ in ODF	JB Industries	A31723	**3DXC2**	3
¼ in SAE M, ⅜ in ODS x ½ in ODF	JB Industries	A31726	**3DXC4**	3
¼ in, ³⁄₁₆ in, ⅜ in ODS	—	4PDH4	**4PDH4**	6
½ in ODF Step, ¼ in, ¼ in SAE M, ³⁄₁₆ in, ⁵⁄₁₆ in	JB Industries	A31729	**3DXC6**	3
½ in ODS x ⅝ in ODF	JB Industries	A31728	**35Y854**	3
¼ in Access Valves, 90°				
¼ in ODS x ⅛ in MPT	JB Industries	A31492	**3DXA5**	3
⁵⁄₁₆ in ODS x ¼ in MPT	JB Industries	A31494	**3DXA6**	3
⅝ in ODS	JB Industries	A31160	**3DWZ3**	1
¾ in ODS	JB Industries	A31162	**3DWZ4**	1
⅞ in ODS	JB Industries	A31164	**3DWZ5**	1
¼ in Access Valves, Branch Tee				
⅛ in MPT Branch x ¼ in SAE Run	JB Industries	A31452	**3DXA3**	3
¼ in SAE Branch, ¼ SAE x ⅛ in MPT Run	JB Industries	A31512	**3DXA7**	3
¼ in SAE Branch, ¼ SAE x ¼ in MPT Run	JB Industries	A31514	**3DXA8**	3
¼ in MPT Branch x ¼ in SAE Run	JB Industries	A31454	**3DXA4**	3
¼ in Access Valves, Bulkhead Mount				
¼ in ODS, ³⁄₁₆ in, ⅜ in ODF	JB Industries	A31727	**3DXC5**	1
¼ in SAE Nut	JB Industries	A31434	**3DXA2**	1
¼ in Access Valve, Coupler w/ Depresser				
¼ in SAE Swivel Flare x ¼ in MF	JB Industries	A33004	**3DXF3**	1
¼ in Access Valves, Extension Tube				
⅛ in OD, ³⁄₁₆ in, ¼ in, ⁵⁄₁₆ in Step	JB Industries	A31009	**3DWY1**	3
⅛ in OD	—	4PDG9	**4PDG9**	6
	JB Industries	A31002-G	**20W296**	5
³⁄₁₆ in OD, ¼ in, ⅜ in Step	JB Industries	A31011	**3DWY2**	3
³⁄₁₆ in OD	—	4PDH1	**4PDH1**	6
³⁄₁₆ in OD x ⅛ in ID	JB Industries	A31003-G	**20W297**	5
¼ in OD	—	4PDH2	**4PDH2**	6
¼ in OD X ³⁄₁₆ in ID	JB Industries	A31004-G	**20W298**	5
¼ in	JB Industries	A31004-100	**35Y852**	100
⁵⁄₁₆ in OD, ¼ in ID	JB Industries	A31005	**3AXG2**	5
⅜ in OD	—	4PDH3	**4PDH3**	6
⅜ in OD x ⁵⁄₁₆ ID	JB Industries	A31006-G	**20W299**	5
½ in OD	JB Industries	A31008	**3AXG3**	3
¼ in Access Valves, Swaged Tee				
⅜ in OD	JB Industries	A31336	**3DWZ8**	3
½ in OD	JB Industries	A31338	**3DWZ9**	3
⅞ in OD	JB Industries	A31344	**3DXA1**	1
¼ in Access Valves, Tee				
¼ in ODS x ⁵⁄₁₆ in ODF	JB Industries	A31134	**3DWY3**	3
	JB Industries	A31155	**3DWZ2**	2
⁵⁄₁₆ in ODS x ⅜ in ODF	JB Industries	A31135	**3DWY4**	3
⅜ in ODS x ½ in ODF	JB Industries	A31136	**3DWY5**	3
	JB Industries	A31236	**3DWZ7**	3
½ in ODS	JB Industries	A31138	**3DWY6**	3
⅝ in ODS	JB Industries	A31140	**3DWY7**	1
¾ in ODS	JB Industries	A31142	**3DWY8**	1
⅞ in ODS	JB Industries	A31144	**3DWY9**	1
1⅛ in ODS	JB Industries	A31148	**3DWZ1**	1

Connec. Size	Brand	Mfr. Model	Item No.	Pkg. Qty.
¼ in Access Valves, Tee with Flare Nut				
¼ in SAE M Run x ¼ in Flare Nut Branch	JB Industries	A31852	**3AXF6**	3
¼ in SAE M Branch x ⅜ SAE M x ⅜ in SAE F Run	JB Industries	A31853	**3DXC9**	1
¼ in SAE M x ¼ in SAE M Run x ¼ in SAE F Branch	JB Industries	A31854	**3DXD1**	3
¼ in SAE M x ¼ in SAE F Run x ¼ in SAE M Branch	JB Industries	A31864	**3DXD2**	3
¼ in SAE M x ¼ in Flare Nut Run x ¼ in SAE M Branch	—	4PDJ2	**4PDJ2**	6
	JB Industries	A31851-G	**20W308**	3
¼ in Access Valve with Flare Nut				
¼ in SAE M x ¼ in SAE F Flare	JB Industries	A31734	**3DXC7**	3
¼ SAE M x ¼ in M Flare w/ Nut	JB Industries	A31444	**35Y865**	3
¼ in Access Valves, Union				
¼ in SAE M x ⅛ in MPT	—	4PDH9	**4PDH9**	6
¼ in SAE M x ⅛ MPT	JB Industries	A31482-G	**20W306**	5
¼ in SAE M x ¼ in MPT	—	4PDJ1	**4PDJ1**	6
¼ in SAE M x ¼ MPT	JB Industries	A31484-G	**20W307**	5
¼ in Access Valves, Union Tee				
¼ in OD x ¼ in Slip Fit	—	4PDH5	**4PDH5**	2
	JB Industries	A31199-G	**20W302**	2
⅜ in OD x ⅜ in Slip Fit	—	4PDH6	**4PDH6**	2
	JB Industries	A31200-G	**20W303**	2
½ in OD x ½ in Slip Fit	—	4PDH7	**4PDH7**	2
	JB Industries	A31201-G	**20W304**	2
⅝ in OD x ⅝ in Slip Fit	—	4PDH8	**4PDH8**	2
	JB Industries	A31202-G	**20W305**	2
⅞ in OD x ⅞ in Slip Fit	JB Industries	A31204	**3DWZ6**	2
¼ in Swivel FE Flare x Solder Adapter				
¼ in x ¼ in	JB Industries	A32700	**3DXD8**	4
⅜ in x ⅜ in	JB Industries	A32701	**3DXD9**	4
½ in x ½ in	JB Industries	A32702	**3DXE1**	4
⅝ in x ⅝ in	JB Industries	A32703	**3DXE2**	2
¾ in x ¾ in	JB Industries	A32704	**3DXE3**	2
¼ in Swivel Cylinder Valves				
¾ in NPS x ¼ in SAE MF	JB Industries	CV-20004	**3DXF6**	1
¾ in NPS x ⅜ in SAE MF	JB Industries	CV-20006	**3DXF7**	1
¼ in SAE Cap with Gasket				
¼ in	JB Industries	A31992	**3DXD4**	5
	JB Industries	A31985	**3DXG2**	10
⅜ in SAE Cap with Gasket				
⅜ in	JB Industries	NFT5-6	**3DXG3**	3
¼ in SAE Cap with Gasket & Core Remover				
¼ in	JB Industries	A31997	**3DXD5**	10
¼ in Valve Cores				
—	JB Industries	A31999-G	**20W309**	5
	—	4PDJ3	**4PDJ3**	10
	JB Industries	A31999-25	**20HJ93**	25
	JB Industries	A31999-100	**20HJ94**	100
½ in Valve Core with Caps				
½ in	JB Coremax	CM-VC003	**415F96**	3
	JB Coremax	CM-VC010	**415F97**	10
	JB Coremax	CM-VC100	**415F98**	100
J. Access & Service Valves				
Kit: Valves, Valve Core Tool, Cores, Plastic Core Remover	JB Industries	AVK-001	**36P062**	1
Repair Parts				
Cap Gasket	JB Industries	P509	**3DXG4**	6
Depressor	JB Industries	P90513	**3DXG5**	5

Parker

Liquid and Suction Line Filter Dryers

For use with all CFC, HCFC, and HFC refrigerants.

Copper—High moisture/acid capacity, solid core, and large flow capacity. 6X525 has grooved ends for easy breakoff to activate dryer. Compatible with mineral oils and polyolester oils (POEs).

Steel—Powder-coated shell withstands 500-hr. salt spray test. SAE flare fittings are nickel plated. Solder connections are 100% copper.

6X512 3A656

Description	Connec. Size (in.)	R-22 Cap. (tons)	Mfr. Model	Item No.
Liquid Line Filter Dryers				
Copper, Solder				
Directional Flow w/ Charging Valve	¼ - ⁵⁄₁₆	2 ton	620	**6X590**
	¼	½ ton	619	**6X524**
Economy	¼	½ ton	MMS-100	**6X527** *
	⁵⁄₁₆ - ⅜	1 ton	MMS-200	**6X591**
General Purpose	¼	½ ton	712	**6X525**
Heavy Duty	⁵⁄₁₆	2 ton	319	**6X526**
Non Directional Flow	¼	½ ton	MMS-80	**6X528**
Steel, Bi Flow, Liquid Line, Sweat				
Desiccant Capacity 16 cu in	⅜	5 ton	5SSBF3S	**54PR63**
Desiccant Capacity 8 cu in	⅜	3 ton	3SSBF3S	**54PR62**
Steel, Bi Flow, Solder				
Heat Pump Application	⅜	3 ½ ton	BF-083S	**3A648**
	⅜	8 ton	BF-163S	**3A653**
	½	3 ½ ton	BF-084S	**3A650**
	½	8 ton	BF-164S	**3A655**
Steel, SAE Flare				
100 % Molecular Sieve	¼	1 ton	LLD-032	**6X505**
	⅜	8 ton	303	**6X513**
	½	10 ton	304	**6X514**
	⅝	10 ton	305	**6X515**
	⅝	15 ton	415	**1A524**
75/25 Dessicant Blend	¼	1 ½ ton	LLD - 082	**6X508**
	¼	3 ½ ton	LLD - 052	**6X506**
	⅜	2 ton	LLD - 053	**6X507**
	⅜	3 ton	LLD - 163	**6X511**
	⅜	5 ton	LLD - 083	**6X509**
	½	7 ton	LLD - 084	**6X510**
	½	7 ton	LLD - 164	**6X512**
	⅝	10 ton	165	**4E932**
Steel, Solder				
100 % Molecular Sieve	¼	1 ton	LLD-032S	**6X579** †
	⅜	8 ton	303S	**6X587**
	½	10 ton	304S	**6X588**
	⅞	10 ton	307S	**4E934**
100 % Molecular Sieve, High Filtration Capacity, Rated 650 PSIG, Solid Core	⅜	2 ton	2SS3S	**45KJ88**
	⅜	3 ton	3SS3S	**45KJ89**
	⅜	5 ton	5SS3S	**45KJ90**
75/25 Dessicant Blend	¼	1 ½ ton	LLD - 082S	**6X582**
	¼	2 ton	LLD - 052S	**6X580**
	⅜	2 ton	LLD - 053S	**6X581**
	⅜	5 ton	LLD - 083S	**6X583**
	⅜	6 ton	LLD - 163S	**6X585**
	½	7 ton	LLD - 084S	**6X584**
	½	7 ton	LLD - 164S	**6X586**
	⅝	10 ton	165S	**4E933**
Sweat, ODF				
650 PSIG, Solid Molded Desiccant Core	¾	20 ton	LLD-606S	**463L45**
	⅞	20 ton	LLD-607S	**463L46**
	1⅛	20 ton	LLD-609S	**463L47**
Steel Shell Suction Line Filter Dryers				
With Inlet and Outlet Access Valves, Solder				
High Acid Capacity	⅝	4 ½ ton	SLD-13-5SV-HH	**6X518**
	¾	7 ton	SLD-13-6SV-HH	**6X519**
	⅞	7 ton	SLD-13-7SV-HH	**3A660**
	1⅛	7 ½ ton	SLD-13-9SV-HH	**3A661**
With Single Access Valve, Solder				
High Acid Capacity	⅜	1 ½ ton	SLD-8-3SV-HH	**3A656**
	½	2 ½ ton	SLD-8-4SV-HH	**3A657**
	⅝	4 ton	SLD-8-5SV-HH	**4X858**
	¾	4 ½ ton	SLD-8-6SV-HH	**3A658**
	⅞	10 ton	SLD-27-7SV-HH	**6X520**
	1⅛	13 ton	SLD-27-9SV-HH	**6X521**

**6X527 is sold as each in store, shipped in pkg. of 3. † Includes charging valve.*

Refrigerant Pressure Controls

- SPST, except where noted

DUAL-PRESSURE CONTROLS

Combine high-pressure compressor protection with low-pressure, cycling, or safety functions.

For R-12, R-22, R-134A, and R-502.

Johnson Controls—Visible pressure scale. Adjustable through the range without removing cover. Manual reset models are trip-free. P170 models require armored capillary tubes; see Grainger.com.

SINGLE-PRESSURE CONTROLS

For R-12, R-22, R-134A, and R-502. Controls 40G337, 40G338, 40G344, 40G388, 40G389, 40G399, and 40G404 are compatible with R-410A.

Low Pressure—Protect compressors against loss of refrigerant. Also used to cycle compressors in commercial refrigeration applications.

High Pressure—Protect compressors from excessive system pressure.

NONADJUSTABLE PRESSURE SWITCHES

- Automatic reset, except where noted
- Bursting pressure: 5000 psi

Snap-acting sensor. ¼" female SAE connection. 24/120/240V. Switches 40G327, 40G323, 2HYV5, 2HYV6, and 2HYV7 are compatible with R-410A.

Low Pressure (psig) * Range (in.)	Low Pressure Diff.	High Pressure (psig) Range (in.)	High Pressure Diff.	Reset Low	Reset High	Pressure Connec.	Brand	Mfr. Model	Item No.
Dual Pressure Controls									
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70LB-6C	**40G407**
12 Hg to 80	5 to 35	100 to 500	65 psig	Auto	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70MA-18C	**40G408**
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Convertible	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70SA-1C	**40G412** #
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Auto	¼ in Male Flare	Johnson Controls	P170LB-6C	**40G347**
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Manual	¼ in Male Flare	Johnson Controls	P170MA-18C	**20XH84**
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Convertible	¼ in Male Flare	Johnson Controls	P170SA-1C	**40G349** #
20 Hg to 100	7	100 to 500	55 psig	Manual	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70NA-1C	**40G411**
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70MA-2C	**40G410**
20 Hg to 100	7 to 50	100 to 500	—	Manual	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P72MA-1C	**40G414** †
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70LB-1C	**40G406**
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70MA-1C	**40G409**
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Auto	¼ in Male Flare	Johnson Controls	P170LB-1C	**40G346**
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	¼ in Male Flare	Johnson Controls	P170MA-1C	**40G348**
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto	36 in Capillary	Ranco	012-1549	**2E989**
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto/Man	48 in Capillary	Ranco	012-4834	**2E990**
10 to 100	10 Fixed	150 to 450	70 Fixed	Manual	Manual	Color Coded ¼ inch Flare Nuts	Ranco	o12-1594	**12Z407**
12 to 50	5 to 35	100 to 250	50 Fixed	Auto	Auto	36 in Capillary	Ranco	012-1506	**2E986**
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto	36 in Capillary	Ranco	012-1502	**2E987**
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto/Man	48 in Capillary	Ranco	012-4833	**2E988**
Differential Pressure Controls									
8 to 70	8 to 30	—	—	Auto	—	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P74BA-1C	**20XH85**
2 to 26	3.5 Fixed	—	—	Auto	—	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P74EA-8C	**40G415** **
8 to 60	1.5 Fixed	—	—	Auto	—	¼ in Male Flare	Johnson Controls	P74FA-1C	**40G416** **
8 to 60	1.5 Fixed	—	—	Auto	—	¼ in Female NPT	Johnson Controls	P74FA-5C	**40G417** **
2 to 26	1.5 Fixed	—	—	Auto	—	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P74FA-10C	**20XH86**

Range psi	Diff. Pressure (psi)	Reset	Pressure Connec.	Brand	Mfr. Model	Item No.
Single Pressure Controls						
Switch Opens on Low Pressure						
0 to 150	10 to 70	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70AA-2C	**40G388**
12 in to 80	5 to 35	Auto	¼ in Male SAE	Johnson Controls	P170AB-12C	**40G339**
12 in to 80	5 to 35	Auto	¼ in Flare Nut	Johnson Controls	P70AB-12C	**40G391**
20 in to 100	2.2	Manual	¼ in Male Flare	Johnson Controls	P29NC-2C	**40G360**
20 in to 100	2.2	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P29NC-3C	**40G361**
20 in to 100	7	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70BA-1C	**40G395**
20 in to 100	7 to 50	Auto	¼ in Male Flare	Johnson Controls	P170AB-2C	**40G340**
20 in to 100	7 to 50	Auto	¼ in Male Flare	Johnson Controls	P170CA-1C	**40G341**
20 in to 100	7 to 50	Auto	¼ in. SS Female NPT	Johnson Controls	P70AA-5C	**40G390**
20 in to 100	7 to 50	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70AB-2C	**40G393**
20 in to 100	7 to 50	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70AB-2CQ	**40G394**
50 in to 300	20 to 120	Auto	48 in Capillary with ¼ in Flare Nut	Johnson Controls	P70AA-162C	**20RG54**
50 to 300	20 to 120	Auto	¼ in Female NPT	Johnson Controls	P70AA-119C	**40G387**
50 to 500	60 to 150	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70CA-2C	**40G397**
100 to 400	35 to 200	Auto	¼ in Flare Nut	Johnson Controls	P72AA-27C	**40G413** †
100 to 400	35 to 200	Auto	¼ in Male SAE	Johnson Controls	P170AA-118C	**40G336**
100 to 400	35 to 200	Auto	¼ in Flare Nut	Johnson Controls	P70AA-118C	**40G386**
100 to 470	35 to 200	Auto	¼ in Male Flare	Johnson Controls	P170AA-400C	**40G338**
100 to 470	35 to 200	Auto	¼ in Flare Nut	Johnson Controls	P70AA-400C	**40G389**
10 in to 100	10 to 40	Auto	36 in Capillary with ¼ in Flare Nut	Ranco	010-1483	**2E982**
12 in to 50	5 to 35	Auto	¼ in Male Flare	Ranco	010-1401	**2E980**
12 in to 50	5 to 35	Auto	36 in Capillary with ¼ in Flare Nut	Ranco	010-1402	**2E981**
12 in to 80	5 to 38	Auto	¼ in Flare Nut	Ranco	o16-624	**12Z406**
100 to 400	40 to 150	Auto	36 in Capillary with ¼ in Flare Nut	Ranco	010-2054	**2E983**
100 to 400	40 to 150	Auto	36 in Capillary with Flare Nut	Ranco	020-7006	**3XL03** †
0 to 650		Auto	¼ in Female SAE	Supco	SLP75100	**4LWX9**
0 to 650		Auto	¼ in Female SAE	Supco	SFC200240	**4LWY2**
0 to 150	10 to 70	Auto	¼ in Male Flare	Johnson Controls	P170AA-2C	**40G337**
Switch Opens on High Pressure						
20 in to 100	7 to 50	Auto	¼ in Brass Female NPT	Johnson Controls	P70CA-61C	**20RG55**
20 in to 100	7 to 50	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70CA-4C	**40G401**
20 in to 100	7 to 50	Auto	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70CA-1C	**40G396**
50 to 450	60	Manual	¼ in. SS internal NPT	Johnson Controls	P70DA-2C	**40G403**
50 to 500	60	Manual	¼ in Male Flare	Johnson Controls	P170KA-1C	**40G345** ‡
50 to 500	60	Manual	¼ in Stainless Steel Female NPT	Johnson Controls	P70KA-7C	**20RG56**
50 to 500	60	Manual	¼ in Male SAE	Johnson Controls	P170DA-1C	**40G343**
50 to 500	60	Manual	¼ in Flare Nut	Johnson Controls	P70DA-1C	**40G402**
50 to 500	60	Manual	36 in Capillary with ¼ in Flare Nut	Johnson Controls	P70KA-1C	**40G405** ‡
50 to 500	60 to 150	Auto	¼ in Flare Nut	Johnson Controls	P70CA-3C	**40G398**
50 to 500	60 to 150	Auto	¼ in Male SAE	Johnson Controls	P170CA-3C	**40G342**
200 to 610	60	Manual	¼ in Male SAE	Johnson Controls	P170DA-400C	**40G344**
200 to 610	60	Manual	¼ in Flare Nut	Johnson Controls	P70DA-400C	**40G404**
200 to 610	60 to 150	Auto	¼ in Male Flare	Johnson Controls	P170CA-400E	**2HYV3**
200 to 610	60 to 150	Auto	¼ in Flare Nut	Johnson Controls	P70CA-400C	**40G399**
150 to 450	40 to 150	Auto	¼ in Male Flare	Ranco	011-1711	**2E985**
0 to 650		Auto	¼ in Female SAE	Supco	SHP600475	**4LWY1**
Switch Opens on High/Low Pressure						
100 to 400	40 to 150	Auto	36 in Capillary with Flare Nut	Ranco	016-108	**2E984** **

Open (psi)	Close (psi)	Brand	Mfr. Model	Item No.
Nonadjustable Pressure Switches				
Switch Opens on Low Pressure				
5 psi	20	Johnson Controls	P100AC-1C	**40G315**
10 psi	32	Johnson Controls	P100AP-201C	**2HYV6**
15 psi	30	Johnson Controls	P100AC-2C	**40G316**
35 psi	60	Johnson Controls	P100AA-2C	**40G313**
35 psi	60	Johnson Controls	P100AP-2C	**40G317**
40 psi	70	Johnson Controls	P20EB-1C	**20RG50**
40 psi	Lockout	Johnson Controls	P20BB-1C	**20RG48**
150 psi	225	Johnson Controls	P100AA-3C	**40G314**
150 psi	225	Johnson Controls	P100AP-3C	**40G318**
170 psi	250	Johnson Controls	P100AP-4C	**40G319**
300 psi	400	Johnson Controls	P100AP-332C	**2HYV5**
15 psi	35	Supco	SLP1535	**2FBR6**
25 psi	50	Supco	SLP2550	**2FBR7**
40 psi	80	Supco	SLP4080	**2FBR8**
5 psi	20	—	—	**6ALA2**
10 psi	25	—	—	**6ALA3**
10 psi	32	—	—	**6ALC2**
25 psi	65	—	—	**6ALA4**
25 psi	80	—	—	**6ALA5**
35 psi	60	—	—	**6ALC3**
Switch Opens on High Pressure				
275 psi	175	Johnson Controls	P100CC-9C	**20RG46**
350 psi	Manual Reset	Johnson Controls	P100DA-35C	**40G326**
360 psi	Lockout	Johnson Controls	P20GB-1C	**20RG52**
375 psi	Manual Reset	Johnson Controls	P100DC-3C	**40G328**
400 psi	300	Johnson Controls	P100CA-1C	**40G320**
400 psi	300	Johnson Controls	P100CP-1C	**40G321**
400 psi	324	Johnson Controls	P20EB-2C	**20RG51**
400 psi	Lockout	Johnson Controls	P20DB-1C	**20RG49**
410 psi	Manual Reset	Johnson Controls	P100DA-1C	**40G324**
425 psi	325	Johnson Controls	P100CP-2C	**40G322**
425 psi	325	Johnson Controls	P100CA-2C	**20RG45**
475 psi	Manual Reset	Johnson Controls	P100DA-2C	**40G325**
575 psi	Manual Reset	Johnson Controls	P100DA-86C	**40G327**
630 psi	Manual Reset	Johnson Controls	P100DA-81C	**2HYV7**
665 psi	565	Johnson Controls	P100CP-85C	**40G323**
350 psi	250	Supco	SHP350250	**2FBP9**
375 psi	265	Supco	SHP375265	**2FBR1**
400 psi	200	Supco	SHP400200	**2FBR2**
400 psi	300	Supco	SHP400300	**2FBR3**
425 psi	300	Supco	SHP425300	**2FBR4**
450 psi	250	Supco	SHP450250	**2FBR5**
200 psi	150	—	—	**6ALA7**
300 psi	200	—	—	**6ALC0**
410 psi	—	—	—	**6ALC4**

** Low pressure is measured (in vacuum) to psig. ** SPDT switch; 2-3 close on rise, 2-1 open on rise. # 2 SPDT switches. † DPST switch. ‡ 4-wire, 2-circuit.*

11X601

Parker

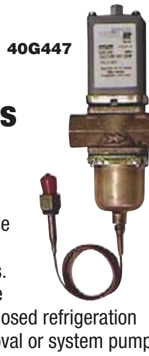
Refrigeration Solenoid Valves and Coils

All coils are ribbed coil design. Use PKC-1 coil models with valve models R12 through R26 and R52 through R56. Use PCK-2 coil models with valve models R32 through R46.

Connec. Type/ Size (in.)	R-410A Liquid Line Tons @ 5 psi	R-134A Liquid Line Tons @ 5 psi	Mfr. Model	Item No.
Valves				
Flare ¼	—	1.2	R16F32 SAE	**29AH08**
Flare ⅜	—	3.8	R26F63 SAE	**29AH13**
Sweat ¼	—	1.2	R16E32	**29AH09**
Sweat ⅜	—	1.2	R16E33	**29AH10**
Sweat ¼	0.98	0.56	R12E22	**29AH07**
	3.45	2.1	R22E52	**29AH11**
Sweat ⅜	3.45	2.1	R22E53	**29AH12**
	6.02	3.8	R26E63M	**29AH14**
Sweat ½	6.02	3.8	R26E64M	**29AH15**
Sweat ⅜	9.86	6.2	R32E93M	**29AH16**
Sweat ½	9.86	6.2	R32E94M	**29AH17**
	13.6	8.5	R36E104M	**29AH18**
Sweat ⅝	13.6	8.5	R36E105M	**29AH19**
Sweat ⅞	19.2	12	R38E147M	**29AH20**
Sweat ⅝	19.2	12	R38E145M	**35ML17**
	29.7	18.4	R42E195M	**29AH21**
Sweat ⅞	29.7	29.2	R42E197M	**11X601**
Sweat 1⅛	29.7	29.2	R42E199M	**11X602**
Sweat ⅞	50.6	49.9	R46E257M	**11X603**
Sweat 1⅛	50.6	49.9	R46E259M	**11X604**
	88.2	87.4	R52E359M	**11X605**
Sweat 1⅜	88.2	87.4	R52E3511M	**11X606**
Sweat 1⅝	156	96.9	R56E4313M	**36PR82**
Sweat 2⅛	156	96.9	R56E4317M	**36PR83**

Voltage	Watts	For Use With	Mfr. Model	Item No.
Operating Coils, 50/60 Hz				
24V AC	10 W	R52E359M, R52E3511M	PKC-1-24	**11X615**
	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-24	**11X618**
120/240V AC	10 W	Refrigeration Solenoid Valves	PKC-1-120/240	**35ML18**
	15 W		PKC-2-120/240	**35ML19**
120VAC	10 W	R52E359M, R52E3511M	PKC-1-120	**11X616**
120V AC	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-120	**11X619**
208/240V AC	10 W	R52E359M, R52E3511M	PKC-1-208/240	**11X617**
	15 W	R42E197M, R42E199M, R46E257M, R46E259M, R56E4213M, R56E4217M	PKC-2-208/240	**11X620**

Johnson Controls



40G447

Water-Regulating Valves

- Max. water pressure: 150 psig (V146 models are 350 psig)
- Corrosion-resistant material

Direct-acting valves open on pressure increase to regulate the flow of water or glycol to water-cooled condenser refrigeration systems. Pressure-balanced, modulating valves provide precise control of head pressure on open or closed refrigeration systems. Valves can be repaired without removal or system pump-down. V47 models are temperature-activated.

Valves for High-Pressure Refrigerants—Require Armored Capillary Tube 40G423, sold separately this page.

Connec. Size (in.)	Connec.	Type	Design Pressure (psig)	Set Points	Mfr. Model	Item No.
⅜	NPT	2 Way	—	70 to 260	V46AA-1C	**40G447**
	NPT	2 Way	320 psig	70 to 260	V46DA-2C	**40G455**
	NPT	2 Way	150 psig	70 to 260	V46EA-3C	**20RG36**
	NPT	2 Way	320 psig	115°F to 180°F	V47AA-1C	**40G456**
	NPT	2 Way	320 psig	75°F to 135°F	V47AA-3C	**40G457**
½	NPT	2 Way	—	70 to 260	V46AB-1C	**40G448**
	NPT	2 Way	320 psig	115°F to 180°F	V47AB-3C	**40G458**
	NPT	2 Way	320 psig	75°F to 135°F	V47AB-5C	**40G459**
¾	NPT	2 Way	—	70 to 260	V46AC-1C	**40G449**
	NPT	2 Way	150 psig	70 to 260	V46AC-26C	**20RG33**
	NPT	2 Way	150 psig	70 to 260	V46BC-2C	**20RG34**
	NPT	2 Way	320 psig	115°F to 180°F	V47AC-3C	**40G460**
	NPT	2 Way	150 psig	70 to 260	V47AC-4C	**20RG37**
	NPT	2 Way	320 psig	75°F to 135°F	V47AC-6C	**40G461**
	NPT	2 Way	150 psig	75° to 135°F	V47AC-8C	**20RG38**
	NPT	2 Way	150 psig	70 to 260	V48AC-2C	**20RG41**
1	NPT	2 Way	—	70 to 260	V46AD-1C	**40G450**
	NPT	2 Way	150 psig	70 to 260	V47AD-2C	**20RG39**
1¼	NPT	2 Way	320 psig	70 to 260	V46AE-1C	**40G451**
	NPT	2 Way	150 psig	115 to 180	V47AE-2C	**20RG40**
1½	Flange	2 Way	320 psig	70 to 260	V46AR-1C	**40G452**
	Flange	2 Way	150 psig	70 to 260	V46BR-2C	**20RG35**
2	Flange	2 Way	320 psig	160 to 260	V46AS-2C	**40G453**
2½	Flange	2 Way	320 psig	160 to 260	V46AT-2C	**40G454**
Valves for High-Pressure Refrigerants, For Use With Non Corrosive Refrigerants						
¾	Sweat	2 Way	630 psig	200 to 400	V146GK1-001C	**40G437**
	Sweat	3 Way	630 psig	200 to 400	V148GK1-001C	**40G439**
1	Sweat	2 Way	630 psig	200 to 400	V146GL1-001C	**40G438**
	Sweat	3 Way	630 psig	200 to 400	V148GL1-001C	**40G440**
1¼	NPT	2 Way	630 psig	200 to 400	V246GE1-001C	**40G441**
	NPT	3 Way	630 psig	200 to 400	V248GE1-001C	**40G446**
1½	Flange	2 Way	630 psig	200 to 400	V246GR1-001C	**40G442**
Valves for High-Pressure Refrigerants, For Use With R-410A						
⅜	NPT	2 Way	630 psig	200 to 400	V246GA1-001C	**12Y955**
½	NPT	2 Way	630 psig	200 to 400	V246GB1-001C	**12Y956**
	NPT	3 Way	630 psig	200 to 400	V248GB1-001C	**12Y959**
¾	NPT	2 Way	630 psig	200 to 400	V246GC1-001C	**12Y957**
	NPT	3 Way	630 psig	200 to 400	V248GC1-001C	**12Y960**
1	NPT	2 Way	630 psig	200 to 400	V246GD1-001C	**12Y958**
	NPT	3 Way	630 psig	200 to 400	V248GD1-001C	**12Y961**
Valves for High-Pressure Refrigerants, For Use With SEC99 Series						
¾	NPT	2 Way	630 psig	135 to 300 psi	V246NC1-001C	**35LZ04**
1	NPT	2 Way	630 psig	135 to 300 psi	V246ND1-001C	**35LY98**
1½	NPT	3 Way	630 psig	200 to 400 psi	V248GF1-001C	**35LZ01**
2	Flange	2 Way	630 psig	200 to 400 psig	V243GS-1C	**35LZ06**
	Flange	2 Way	630 psig	200 to 400 psi	V246GS1-001C	**35LZ02**
	Flange	2 Way	630 psig	200 to 400 psi	V246HS1-001C	**35LZ03**
2½	Flange	2 Way	630 psig	200 to 400 psig	V243GT-1C	**35LZ07**
3	Flange	2 Way	630 psig	200 to 400 psig	V243GV-1C	**35LZ08**
4	Flange	2 Way	630 psig	200 to 400 psig	V243GW-1C	**35LZ09**

40G425

Johnson Controls

Armored Capillaries

- For use with ¼" male flare fitting connectors

Armored capillaries minimize pressure pulsation. Brass armor sleeve improves resistance to abrasion caused by vibration.

Note: Compatible with all common noncorrosive refrigerants.

L	Max. Working Pressure	Inside Dia.	Mfr. Model	Item No.
Breakaway Schrader Depressor in One End, 2 Straight Fittings				
18 in	600 psi	0.06 in	SEC99AA-18C	**20RG42**
24 in	600 psi	0.062 in	SEC99AA-24C	**40G422**
36 in	600 psi	0.062 in	SEC99AA-36C	**40G423**
48 in	600 psi	0.062 in	SEC99AA-48C	**40G424**
60 in	600 psi	0.06 in	SEC99AA-60C	**20RG43**
Breakaway Schrader Depressor in Both Ends, One Straight and One 90° Fitting				
18 in	600 psi	0.06 in	SEC99AB-18C	**40G425**
24 in	600 psi	0.06 in	SEC99AB-24C	**40G426**
36 in	600 psi	0.06 in	SEC99AB-36C	**40G427**
48 in	600 psi	0.06 in	SEC99AB-48C	**40G428**
60 in	600 psi	0.062 in	SEC99AB-60C	**40G429**
Without Breakaway Schrader Depressor, One Straight and One 90° Fitting				
18 in	600 psi	0.062 in	SEC99AD-18C	**40G430**
24 in	600 psi	0.062 in	SEC99AD-24C	**40G431**
36 in	600 psi	0.062 in	SEC99AD-36C	**40G432**
48 in	600 psi	0.06 in	SEC99AD-48C	**20RG44**

Johnson Controls

Electronic Pressure Transmitters

Rugged, compact, direct-mount pressure transducers produce an analog signal based on the sensed pressure and are ideal for use in air conditioning and commercial refrigeration applications.

Output	Process Connec.	Range	Electrical Connections	Mfr. Model	Item No.
0 to 10V DC	⅛"-27 NPT External Thread	0 to 100 psi	Packard Connector	P599VAPS101C	**53CW45**
	¼" SAE 45° Flare Internal Thread		Packard Connector	P599VCPS101C	**53CW51**
		0 to 500 psi	Packard Connector	P599VCPS105C	**53CW53**
		0 to 750 psi	Packard Connector	P599VCPS107C	**53CW55**
0.5 to 4.5V DC	⅛" -27 NPT External Thread	0 to 100 psi	Packard Connector with 6½ ft Wiring Harness	P599RAPS101K	**K4656**
	⅛"-27 NPT External Thread		Packard Connector with 6½ ft Wiring Harness	P598RAPSN101K	**53CW85**
		0 to 750 psi	Packard Connector	P599RAPS107C	**K4655**
	¼" SAE 45° Flare Internal Thread	0 to 100 psi	Packard Connector	P599RCPS101C	**K4655**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN101K	**53CW95**
		0 to 500 psi	Packard Connector	P599RCPS105C	**K4655**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN105K	**53CW99**
		0 to 750 psi	Packard Connector	P598RCPSN107C	**53CX01**
			Packard Connector with 6½ ft Wiring Harness	P598RCPSN107K	**53CX02**
4 to 20mA DC	⅛"-27 NPT External Thread	0 to 100 psi	Packard Connector	P599AAPS101C	**53CW12**
	¼" SAE 45° Flare Internal Thread	0 to 500 psi	Packard Connector	P598ACPSN105C	**K4665**
		0 to 750 psi	Packard Connector	P599ACPS107C	**53CW22**
			Packard Connector with 6½ ft Wiring Harness	P598ACPSN107K	**K4664**
13 ft Wiring Harness				WHA-PKD3-400C	**40G464**
6½ ft Wiring Harness				WHA-PKD3-200C	**40G463**

Oil Pressure Controls

- 120/240VAC
- Manual reset
- Built-in time delay relay

JOHNSON CONTROLS

For use with noncorrosive refrigerants.

P45 and P145 Series—Units are nonadjustable and provide dependable low-lube oil pressure; factory set per manufacturer's specs. P145 models require armored capillary tubes (see Grainger.com).

P28 and P128 Series—Provide dependable cut-out for pressure-lubricated refrigeration compressors. Field-adjustable pressure differential per manufacturer's specs. P128 models require armored capillary tubes (see Grainger.com).

P545 Series—Electronic controls lock out compressor if lube oil pressure falls below manufacturer's recommended net pressure. For use on refrigeration compressors equipped with oil pumps that accept single-point differential pressure switch. P400 sensor and wire harness included with controller.

RANCO

Replaceable time-delay modules, and adjustable pressure range.

For R-22, R-124, R-134A, R-408, R-502, and R-507.

12Y971

1CXH3

Description	Pressure Range (psi)	Time Delay (sec.)	Pressure Connec.	Capillary Length (in.)	Brand	Mfr. Model	Item No.
Electromechanical	9	120 sec	¼ in Flare Nut	36 in	Johnson Controls	P45NAA-5C	**20RF58**
Electromechanical	Fixed 6.5	45 sec	¼ in Male Flare	—	Johnson Controls	P145NCA-82C	**40G334**
Electromechanical	9	10 sec	¼ in Male Flare	—	Johnson Controls	P145NCB-12C	**20RF56**
Electromechanical	Fixed 6.5	45 sec	¼ in Male Flare	—	Johnson Controls	P145NCB-82C	**40G335** *
Electromechanical	8 to 70	90 sec	¼ in Flare Nut	36 in	Johnson Controls	P28AA-1C	**40G358**
Electromechanical	8 to 70	120 sec	¼ in Flare Nut	36 in	Johnson Controls	P28AA-17C	**40G357**
Electromechanical	8 to 70	90 sec	¼ in Female NPT	36 in	Johnson Controls	P28AN-1C	**40G359** **
Electromechanical	8 to 70	90 sec	¼ in Male Flare	—	Johnson Controls	P128AA-1C	**20RF55**
Electromechanical	8 to 70	120 sec	¼ in Male Flare	—	Johnson Controls	P128AA-17C	**20RF54**
Electronic, For Copeland	Fixed 12.75	120 sec	Single Point P400	40 in	Johnson Controls	P545NCB-22C	**12Y971**
Electronic, For Bitzer	Fixed 10	90 sec	Single Point P400	48 in	Johnson Controls	P545NCB-25C	**12Y972**
Electronic, For Carlyle	Fixed 7	120 sec	Single Point P400	40 in	Johnson Controls	P545NCB-82C	**12Y973**
Electromechanical	8 to 60	90 sec	¼ in Male Flare Nut	36 in	Ranco	P30-3701	**1CXH3**
Replacement P545 Electronic Lube Oil Sensors							
For Use With Carlyle P545NCB-82C and CST29A					Johnson Controls	P400AD-1C	**12Y974**
For Use With Copeland P545NCB-22C					Johnson Controls	P400AD-2C	**12Y975**
For Use With Bitzer P545NCB-25C					Johnson Controls	P400BD-1C	**12Y976**

** Carlyle model with wire alarm. ** For use with ammonia.*

Residential Defrost Timers

Direct replacements for defrost timers in household refrigerators and freezers. 120VAC.

11Z778

Replaces O.E.M.	Max. On/Off Cycles	Defrost Time (Minutes)	Mfr. Model	Item No.
Admiral	4 Per Day	21	A1400-00	**11Z778**
Frigidaire	8 Per Day	21	B1400-00	**11Z779**
General Electric	6 Per Day	25	G1400-00	**11Z781**
Whirlpool	8 Per Day	21	A1402-00	**11Z780**

Refrigeration Defrost Thermostats

2FBY5

Moisture-resistant thermostats can be used as exact OEM replacements for most refrigerators and icemakers. SPDT switch opens on rise. 120/240V.

Switch Type	Switch Amp Rating	Temp. Range (F)	Differential	Switch Opens @ (°F)	Switch Closes @ (°F)	Mfr. Model	Item No.
SPDT	25	55 to 35	20	55°F	35°F	SL5709	**2FBY5**
SPST	10	80 to 30	30 +/-4°F	80°F	30°F	ML80	**3CHK2**

1TGD4

Refrigeration/ Defrost Controls

Versatile controls are microprocessor-based, multifunction, and programmable.

Description	Switch Type	Control Range (°F)	Brand	Mfr. Model	Item No.
Controls					
Defrost Control, Panel Mount	SPST	14° to 140°	Johnson Controls	MR4PM24-12C	**20XJ66**
Defrost Timer Control, DIN Rail	SPST	14° to 140°	Johnson Controls	MR4PMUHV-12C	**20XJ67**
Refrigeration/Defrost Control, Temp. Diff.: High 25°F/Low 1F°	4 SPDT	-40 to 60	Paragon	ERC2-212111-370	**1TGD4**
Multi-Stage Electronic Temperature Control	SPST	14° to 140°	Johnson Controls	MS4DR24T-11C	**20XJ68**
Accessory					
Replacement Sensor, For Use With 1TGD4			Paragon	1309007-045	**5PWD7**

Defrost Controls

Timers for Water Spray with Pump-Down Drain or Fan Delay Cycles—Defrost initiation: 1 to 8 cycles per day, at least 3 hr. between cycles. Delay or pump-down cycles: 0 to 30 min. in 3-min. increments; for stopping fans, reducing refrigerant pressure, or hot gas pump-down cycle. Defrost or fan cycles: 3 to 45 min. in 3-min. increments.

Time-Initiated and Time-Terminated—For electric heat, hot gas, or compressor shutdown defrost. Defrost/initiation cycles: 1 to 6 per day. Defrost cycles: 4 to 110 min. in 2-min. increments.

Time-Initiated, Remote-Temperature, or Pressure-Terminated—Work with external temperature or pressure sensor. Has 3 contact arrangements for electric heat, compressor shut-down, or hot gas defrost. Defrost cycles: 1 to 6 per day. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments.

Time-Initiated, Pressure-Terminated—Modular pressure bellows. 3 contact arrangements for hot gas, electric heat, or compressor shutdown defrost. Defrost cycles: 1 to 6 per day, at least 4 hr. between cycles. Dial overlay changes defrost time from even- to odd-numbered hours. Backup defrost termination: 4 to 110 min. in 2-min. increments. Adjustable cut-in pressure-setting dial calibrated from 36 to 100 lb.

5X450

Time Initiated, and Time-, Pressure- and Temp.-Terminated, Auto Voltage—For commercial freezers and refrigerators. Defrost initiation in 15 min. cycles, up to 48 cycles per day. Compressor contacts 3HP, heater/fan contacts 2HP.

Universal Defrost Timers—Manual defrost can be initiated in 15-min. intervals. Provides 100 hr. of power loss protection.

Voltage	Contact Type*	Amps	Mfr. Model	Item No.
Timers for Water Spray with Pump-Down Drain or Fan Delay Cycles				
120V AC	2 NO/2 NC	10 A	632-00	**5X450**
208/240V AC	2 NO/2 NC	10 A	632-20	**5X451**
Time-Initiated and Time-Terminated				
120V AC	1 NO/2 NC	40 A	8041-00	**12Z385**
208/240V AC	1 NO/2 NC	40 A	8041-20	**12Z388**
120V AC	SPDT	40 A	8045-00	**5X454**
208/240V AC	SPDT	40 A	8045-20	**5X455**
120V AC	1 NC, 2 NO	40 A	8025-00	**6X758**
120V AC	2 NO/1 NC	40 A	8047-00	**12Z386**
208/240V AC	2 NO/1 NC	40 A	8047-20	**5X456**
Time-Initiated, Remote-Temperature, or Pressure-Terminated				
120V AC	1 NO/2 NC	40 A	8141-00	**5X457**
208/240V AC	1 NO/2 NC	40 A	8141-20	**12Z389**
120V AC	2 NO/1 NC	40 A	8143-00	**12Z387**
208/240V AC	2 NO/1 NC	40 A	8143-20	**12Z390**
120V AC	SPDT	40 A	8145-00	**5X458**
208/240V AC	SPDT	40 A	8145-20	**5X459**
Time-Initiated, Pressure-Terminated				
208/240V AC	SPDT	40 A	8245-20	**5X460**
Time Initiated, and Time-, Pressure- and Temp.-Terminated, Auto Voltage				
120/208/240/277 V AC	1 NO/1 NC	40 A	8145-AV	**48TJ23**
120/208/240/277 V AC	1 NO/1 NC	40 A	8145-AV-M	**48TJ24**
Universal Defrost Timers				
120/208/240V AC	1 NO/1 NC	30 A	9045-00	**12Z384**
120/208/240V AC	1 SPDT, 1 SPST	30 A	9145-00	**1TGD6**

** NO=Normally Open; NC=Normally Closed.*

Parker

Thermostatic Expansion Valves

1ZRD4

Capacity is at ARI standard 750-70; at 10°F liquid subcooling. Not for use with ammonia.

Nom. Cap. (tons)	Connection	Connector (in.) Inlet	Outlet	Equalizer Type	Mfr. Model	Item No.
Adjustable Balanced Port Expansion Valves						
R-134A Refrigerant						
1/6 to ¼	SAE Flare Angle	¼	½	Internal	C-AA-JW	**1ZRE5**
1/6 to ¼	Straight Through Solder	¼	½	Internal	EC-AA-JW	**1ZRE6**
½ to 1	SAE Flare Angle	⅜	½	Internal	CAJW	**5A433**
½ to 1	Straight Through Solder	⅜	½	Internal	EC-A-JW	**1ZRE7**
1 to 2	Angle Solder	⅜	½	External	SCE-B-JW	**1ZRF3**
1 to 2	Straight Through Solder	½	⅝	External	ECE-B-JW	**1ZRE8**
2 to 3	SAE Flare Angle	⅜	½	Internal	CCJW	**6X237**
2 to 3	SAE Flare Angle	⅜	½	External	CECJW	**6X239**
1 to 2	SAE Flare Angle	⅜	⅝	External	CEBJW	**5A435**
2 to 3	Straight Through Solder	½	⅞	External	ECE-C-JW	**1ZRE9**
R-134A Compact Adjustable, Non-Balanced Port						
¼ to ½	SAE Flare Angle	¼	½	Internal	N ½ JW	**3A664**
R-12/R-134A Compact Adjustable, Non-Balanced Port						
1 to 2	SAE Flare Angle	⅜	½	Internal	N2JW	**6X245**
R-22 Refrigerant						
⅓ to ½	SAE Flare Angle	¼	½	Internal	CAAVX35	**1H767**
⅓ to ½	SAE Flare Angle	¼	½	Internal	CAAVW	**1H768**
2 to 3	SAE Flare Angle	⅜	½	External	CEBVX100	**1ZRD4**
7½ to 8	Straight Through Solder	⅝	⅞	External	EBSE8VX100	**1ZRD5**
10 to 11	Straight Through Solder	⅝	⅞	External	EBSE11VX100	**1ZRD6**
15	Straight Through Solder	⅞	1 ⅛	External	EBSE15VX100	**1ZRD7**
15	Straight Through Solder	⅞	1 ⅛	External	OE-15-VX100	**1ZRE1**
20	Straight Through Solder	⅞	1 ⅜	External	OE-20-VX100	**1ZRE2**
30	Straight Through Solder	1 ⅛	1 ⅜	External	OE-30-VX100	**1ZRE3**
40	Straight Through Solder	1 ⅛	1 ⅜	External	OE-40-VX100	**1ZRE4**
⅓ to ½	Straight Through Solder	¼	½	External	ECE-AA-VZ	**1ZRG6**
¾ to 1½	Straight Through Solder	⅜	½	External	ECE-A-VZ	**1ZRG7**
1½ to 3	Straight Through Solder	⅜	½	External	ECE-B-VZ	**1ZRG8**
⅓ to ½	Angle Solder	¼	½	External	SCE-AA-VZ	**1ZRG9**
¾ to 1½	Angle Solder	⅜	½	External	SCE-A-VZ	**1ZRH1**
1½ to 3	Angle Solder	⅜	½	External	SCE-B-VZ	**1ZRH2**
¾ to 1½	SAE Flare Angle	¼	½	External	CEAVW	**4E638**
1½ to 3	SAE Flare Angle	⅜	½	External	CEBVW	**4E639**
¾ to 1½	SAE Flare Angle	⅜	½	External	CEAVX35	**4E642**
¾ to 1½	SAE Flare Angle	⅜	½	Internal	CAVW	**5A440**
3 to 5	SAE Flare Angle	⅜	½	Internal	CCVW	**5A442**
3 to 5	SAE Flare Angle	⅜	½	Internal	CCVX100	**6X238**
3½ to 5	SAE Flare Angle	⅜	½	External	CECVX100	**6X240**
R-22 Refrigerant w/ Check Valve						
1½ to 3	Straight Through Solder	⅜	½	External	HCAE-3-VX100	**1ZRD1**
3 to 5	Straight Through Solder	⅜	⅝	External	HCAE-5-VX100	**1ZRD3**
R-404A Refrigerant						
1/6 to ¼	SAE Flare Angle	¼	½	Internal	C-AA-SZ	**1ZRF4**
½ to 1	SAE Flare Angle	⅜	½	Internal	C-A-SZ	**1ZRF5**
1 to 2	SAE Flare Angle	⅜	½	External	CE-B-SZ	**1ZRF6**
2 to 3½	SAE Flare Angle	⅜	½	External	CE-C-SZ	**1ZRF7**
1/6 to ¼	Straight Through Solder	¼	½	Internal	EC-AA-SZ	**1ZRF8**
½ to 1	Straight Through Solder	⅜	½	Internal	EC-A-SZ	**1ZRF9**
1 to 2	Straight Through Solder	½	½	External	ECE-B-SZ	**1ZRG1**
2 to 3½	Straight Through Solder	⅜	½	External	ECE-C-SZ	**1ZRG2**
1 to 2	Angle Solder	⅜	½	External	SCE-B-SZ	**1ZRG5**
½ to 1	SAE Flare Angle	⅜	½	Internal	CASW	**5A436**
½ to 1	SAE Flare Angle	⅜	½	Internal	CASX35	**5A437**
2 to 3½	SAE Flare Angle	⅜	½	Internal	CCSW	**5A438**
2 to 3½	SAE Flare Angle	⅜	½	External	CECSW	**5A439**
R-410A Refrigerant						
3½ to 5	Straight Through Solder	⅜	⅝	External	HAE5ZX200	**1VW45**
1½ to 3	Straight Through Solder	⅜	½	External	HAE3ZX200	**1VW47**
1½ to 3	Straight Through Solder	⅜	½	External	HAE3ZX200B15	**1VW48**
5 to 8	Straight Through Solder	⅝	⅞	External	ECE-D-ZX200	**11X594**
8 to 12½	Straight Through Solder	⅝	1 ⅛	External	ECE-12.5-ZX200	**11X595**
12½ to 15	Straight Through Solder	⅝	1 ⅛	External	ECE-15-ZX200	**11X596**
R-410A Refrigerant w/ Check Valve						
1½ to 3	Straight Through Solder	⅜	½	External	HCAE3ZX200	**1VW49**
3½ to 5	Straight Through Solder	⅜	⅝	External	HCAE5ZX200	**1VW50**
Constant Pressure Adjustable, Non-Balanced Port, All Refrigerants						
0.88 to 4.24	SAE Flare Angle	¼	½	External	A-2	**4X859**
0.88 to 4.24	Inlet SAE Flare Angle / Outlet (F)NPT	¼	¼	External	A-1	**5A446**

RANCO

Robertshaw®

Refrigeration Controls

3XL11 terminates defrost and delays the evaporator fan operation on electric heat, hot gas, and reverse cycle commercial refrigeration systems. 3XL05 and 3XL06 provide off-cycle defrost. Generally used in systems without hot gas or electric defrost.

12Z392

Type	Voltage	Control Range (°F)	Capillary Type	Capillary L (in.)	Brand	Mfr. Model	Item No.
Freezer Controls							
Constant Differential Control	24/120/240/277	-3 to 5.5	Capillary	84	Ranco	A30-301	**4E048**
Extra Low Temp.	120/240	-35 to 15	Capillary	72	Ranco	o10-1419	**12Z392**
Extra Low Temp.	120/240	-35 to 15	Capillary w/ Bulb Sensor	72	Ranco	o10-1433	**12Z393**
Extra Low Temp.	120/240	-55 to 0	Capillary	72	Ranco	o10-1000	**12Z391**
Low Temp.	120/240	-15 to 40	Capillary w/Air Coil Sensor	—	Ranco	o10-1072	**12Z394**
Med. Temp.	120/240	-12 to 15	Capillary w/ Bulb Sensor	47 ¼	Ranco	K50Q-1126-001	**6KXG4**
Soft Ice Cream Machine	120/240	-15 to 40	Capillary	72	Ranco	o16-588	**12Z399**
Refrigeration Controls							
Bulk Milk Cooler	120/240	22.5 to 47.5	Capillary w/ Bulb Sensor	72	Ranco	o16-601	**12Z401**
High Temp.	120/240	25 to 75	Capillary w/Air Coil Sensor	—	Ranco	o10-1802	**12Z397**
High Temp.	120/240	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	o10-1491	**12Z398**
Constant Differential Control	24/120/240/277	32 to 42	Capillary	84	Ranco	A30-261	**4E051**
Constant Differential Control	120/240	32 to 61	Capillary	48	Ranco	A30-2210	**3XL09** †
Med. Temp.	120/208/240V	19 to 38	Capillary w/ Bulb Sensor	72	Ranco	A12-1560	**6KXC4**
Med. Temp.	120	25 to 75	Capillary w/Air Coil Sensor	—	Ranco	O10-1418	**1A005**
Med. Temp.	120/240	34 to 55	Capillary w/ Bulb Sensor	47 ¼	Ranco	K50Q-1127-001	**6KXG5**
Refrigeration or Freezer Control							
Temporary Control	120/240	-5F to +38F	Capillary	9	Robertshaw	CC-1	**3PE19**
Refrigeration/Freezer Controls							
Constant Differential Control	24/120/240/277	3 to 43	Capillary	84	Ranco	A30-262	**4E050**
Med. Temp.	24	-15 to 40	Capillary w/ Bulb Sensor	72	Ranco	O10-1409	**1A003**
Med. Temp.	24	-2 to 38	Capillary	72	Ranco	O10-1408	**1A002** *
Med. Temp.	120/240	0 to 47	Capillary w/ Bulb Sensor	47 ¼	Ranco	K50Q-1125-001	**6KXG3**
Med. Temp.	240	0 to 55	Capillary	72	Ranco	O10-1416	**1A020**
Med. Temp.	120	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	O10-1410	**1A004**
Med. Temp.	120/240	0 to 55	Capillary	0 to 55	Ranco	o10-1010	**12Z395**
Med. Temp.	120/240	0 to 55	Capillary w/ Bulb Sensor	72	Ranco	o10-1473	**12Z396**
Med. Temp.	120/240	0 to 55	Capillary	72	Ranco	o16-111	**12Z402**
Med. Temp.	120/240	0 to 55	Capillary	72	Ranco	o16-104	**12Z403**
Med. Temp.	120/240	0 to 55	Capillary	96	Ranco	o16-264	**12Z404**
Med. Temp.	120/240	0 to 55	Capillary w/ Bulb Sensor	72	Ranco	o16-263	**12Z405**
Temperature and Defrost Controls							
Defrost Control	120/240	40 to 75	Cross Ambient Bulb	60	Ranco	F25-107	**3XL11**
Constant Cut In Cold Control	120/240	18 to 27	Capillary	84	Ranco	A12-700	**3XL05**
Constant Cut In Control	120/240	35 to 41	Capillary	84	Ranco	A12-701	**3XL06**
Water Cooler Control							
OEM Replacement	120/208/240	37 to 61	Capillary	48	Ranco	K-3001	**3XL12**

*† Not adaptable; direct fit with dial shaft. * Air coil.*

1UHE7

3MU96

1AYP9

2KFY2

Analog Low-Voltage Thermostats

These nonprogrammable thermostats use simple analog controls to set the temperature of a space.

Stages	Terminal Designations	System/Fan Settings	Mounting Direction/Shape	Millivolt Compatible	Brand	Mfr. Model	Item No.
Cool Only							
1C Conventional	C, G, RC, Y	On-Off/Auto-On	Vertical	—	Dayton	1UHE7	**1UHE7**
	R, Y	On/No Fan Setting	Vertical	Yes	Emerson	1C21-101	**3MU97**
1C Conventional, 1C Heat Pump	G, R, Y	On-Off/Auto-On	Horizontal, Vertical	No	Dayton	4PU46	**4PU46**
Heat Only							
1H Conventional	R, W	On/No Fan Setting	Vertical	Yes	Emerson	1E30N-910	**2KFX9**
	RH, W	On-Off/Auto-On	Vertical	Yes	Emerson	1E50N-301	**2KFY3**
		On-Off/No Fan Setting	Vertical	Yes	Emerson	1C20-101	**3MU96**
		On/No Fan Setting	Vertical	Yes	Emerson	1C20-102	**451G44**
	R, W	On/No Fan Setting	Square	No	Honeywell Home	T812A1002	**5AE54**
	R, W, Y	On/No Fan Setting	Round	No	Honeywell Home	T87K1007	**1AYP9**
	C, RH, W	On/No Fan Setting	Vertical	—	Dayton	1UHE9	**1UHE9**
1H Conventional, 1H Heat Pump	R, W	On-Off/Auto-On	Square	Yes	Dayton	4PU51	**4PU51**
		On/No Fan Setting	Vertical	No	Honeywell Home	T822K1018	**1JUB2**
		On/Auto-On	Horizontal, Vertical	Yes	Dayton	4PU45	**4PU45**
Heat and Cool							
1H/1C Conventional	C, G, RC, RH, W, Y	Heat-Off-Cool/Auto-On	Vertical	—	Dayton	1UHE6	**1UHE6**
	A, B, G, O, RC, RH, W, Y	Heat-Off-Cool/Auto-On	Vertical	Yes	Emerson	1E56N-444	**2KFY1**
		Heat-Off-Cool/Auto-On	Horizontal	Yes	Emerson	1F56N-444	**2KFY2**
		Heat-Off-Cool/Auto-On	Vertical	Yes	Emerson	1C26-101	**3MU98**
	B, G, O, RC, RH, W, Y	Heat-Off-Cool/Auto-On	Square	—	Pro1 Iaq	T501M	**60FD42**
1H/1C Conventional, 1H/1C Heat Pump	B, G, O, R, RC, W, Y	Heat-Off-Cool/Auto-On	Round	—	Honeywell Home	T87N1000	**1AYR2**
		Heat-Off-Cool/Auto-On	Round	No	Honeywell Home	T87N1026	**1JUA9**
		Heat-Off-Cool/Auto-On	Horizontal	No	Honeywell Home	T8034N1007	**1JUB1**
		Heat-Off-Cool/Auto-On	Vertical	No	Honeywell Home	T834N1002	**1JUB3**
	G, RC, RH, W, Y	Heat-Off-Cool/Auto-On	Horizontal, Vertical	Yes	Dayton	4PU47	**4PU47**

45KE94

14A004

4YE43

42PD12

Nonprogrammable Digital Low-Voltage Thermostats

Models are nonprogrammable, so the temperature setting stays the same until it's readjusted.

Stages	Terminal Designations	System/Fan Settings	Mounting Direction/ Shape	Display Size	Millivolt Compatible	Brand	Mfr. Model	Item No.
Heat Only								
1H Conventional	RH, W	On-Off/Auto	Vertical	Standard	Yes	Emerson	1E78-140	**16X610**
	C, R, W	On-Off/No Fan Setting	Vertical	Standard	Yes	Honeywell Home	TH1100DV1000	**30ZZ04**
Heat or Cool, Manual Changeover								
1H/1C Conventional	B, C, G, O, RC, RH, W, Y	Cool-Heat-Off/Auto-On	Square	Easy Read	Yes	Pro1 Iaq	T701	**45KE94**
1H/1C Conventional, 1H/1C Heat Pump	B, C, G, O, R, RC, W, Y		Horizontal	Standard	Yes	Honeywell Home	TH1110DH1003	**14A004**
	C, R, W		Vertical	Standard	Yes	Honeywell Home	TH1110DV1009/U	**2HFF4**
	B, C, G, O, RC, RH, W, Y		Horizontal	Standard	Yes	Emerson	1F86-344	**2NY20**
	B, G, O, RC, RH, W, Y		Vertical	Standard	Yes	Emerson	1E78-144	**2TE31**
	B, G, O, RC, RH, W, Y		Horizontal	Standard	Yes	Emerson	1F78-144	**3MY10**
	C, G, RC, RH, W, Y0/B		Horizontal	Easy Read	Yes	Emerson	1F83C-11NP	**42PD10**
	C, G, O/B, R, RC, W, Y		Horizontal	Standard	No	Honeywell Home	TH1110D2009	**494C68**
1H/1C Conventional, 2H/1C Heat Pump	B, C, E, G, O, R, W2, Y	Cool-Emergency Heat-Heat-Off/Auto-On	Square	Easy Read	Yes	Pro1 Iaq	T621-2	**45KE96**
2H/1C Heat Pump	AUX, B, C, E, G, L, O, R, Y		Vertical	Standard	—	Honeywell Home	TH3210D1004	**2HFF8**
Heat and Cool, Automatic and Manual Changeover								
1H/1C Conventional, 1H Heat Pump	C, G, R, RC, W-O/B, Y	Auto-Cool-Heat-Off/Auto	Horizontal	Easy Read	Yes	Honeywell Home	TH5110D1022	**4YE43**
	B, C, G, O, R, RC, W, Y	Cool-Heat-Off/Auto-On	Horizontal	Easy Read	Yes	Honeywell Home	TH3110D1008	**6WU96**
2H/2C Conventional, 2H/1C Heat Pump	C, G, R, RC, W-O/B, W2-AUX/E, Y, Y2-L	Auto-Cool-Emergency Heat-Heat-Off/Auto	Horizontal	Easy Read	Yes	Honeywell Home	TH5220D1003	**6WU98**
	C, G, R, RC, W-O/B, W2-AUX/E, Y, Y2-L		Horizontal	Easy Read	Yes	Honeywell Home	TH5220D1029	**6WU99**
Heat and Cool, Automatic Changeover								
1H/1C Conventional, 1H/1C Heat Pump	C, G, R, RC/O, RH/B, W, Y	Auto/Auto-On-Circulate	Horizontal	Standard	No	Dayton	6EEA2	**6EEA2**
2H/2C Conventional, 2H/2C Heat Pump	C, G, L, O/B6, RC, RH, W/E, W2, Y, Y2	Auto/Auto	Horizontal	Easy Read	Yes	Emerson	1F85U-22NP	**42PD12**
4H/2C Conventional, 4H/2C Heat Pump	C, G, L, O/B6, RC, RH, W/E, W2, Y, Y2		Horizontal	Easy Read	Yes	Emerson	1F85U-42NP	**42PD13**

3RCN3

56KF88

Nonprogrammable Digital Wireless Low-Voltage Thermostats

Stages	Terminal Designations	System/ Fan Settings	Mounting Direction/ Shape	Temperature Control Range	Voltage	Brand	Mfr. Model	Item No.
Heat and Cool, Automatic and Manual Changeover								
2H/2C Conventional, 3H/2C Heat Pump	A, B, C, D, G, L, R, RAS, RC, RH, W-O/B, W2-AUX/E, Y, Y2	Auto-Cool-Emergency Heat-Heat-Off/Auto	Horizontal	32° to 120°F	20 to 30V AC	Honeywell Home	YTH5320R1000	**3RCN3**
Heat and Cool, Automatic Changeover								
1H/1C Conventional, 2H/1C Heat Pump	B, C, GH, GL, O, R, W, Y	Cool-Heat-Off/ Auto-On	Square	44° to 90°F	18V AC	Pro1 Iaq	T731W	**56KF88**

61TM15

Fireplace Thermostats and Remote Control Kits

- Temp. Control Range: 45° to 99°F
- Used to turn gas fireplaces on or off from anywhere within a room, and display the room temperature. Vertical mounting.

System Settings	Key Features	Mfr. Model	Item No.
On/Off	65,536 Security Codes, On/Off Transmitter, Standard Digit Size	1001-A	**61TM16**
Thermostatic Control	1,048,576 Security Codes, 9-Hour Countdown Timer and 24-Hour Clock, Both Room and Thermostat Set Temperature, Child Safety Lock Out, Thermostatic Control, Large/Easy Read Digit Size	3301	**61TM15**

1ECD4

Temporary Construction Low-Voltage Thermostats

Nonprogrammable and provide temporary heating or cooling control, allowing drywall finishing materials to dry during construction.

Temperature Control Range	Temperature Differential	Voltage	Mfr. Model	Item No.
60°F	9°F	18 to 30V AC	SC060	**1ECD4**
65°F	9°F	18 to 30V AC	SC065	**1ECD5**

Standard Programmable Low-Voltage Thermostats

Used to control the temperature of conventional forced air systems or heat pumps in residential and light commercial settings. 4UFV3 also has humidification control.

Stages	Terminal Designations	Programming Capability	Mounting Direction/ Shape	Brand	Mfr. Model	Item No.
Heat Only						
1H Conventional	C, R, W	5-1-1	Vertical	Dayton	1UHG5	**1UHG5**
Heat and Cool, Manual Changeover						
1H/1C Conventional	B, C, G, O, RC, RH, W, Y	5-1-1, 7 Day	Square	Pro1 Iaq	T805	**45KE84**
	B, C, G, O, RC, RH, W/E, Y		Square	Pro1 Iaq	T705	**45KE93**
1H/1C Conventional, 1H/1C Heat Pump	B, C, G, O, R, RC, W, Y	5-2	Horizontal	Honeywell Home	TH2110DH1002	**14A006**
	B, C, G, O, R, RC, W, Y		Vertical	Honeywell Home	TH2110DV1008/U	**2HFF6**
	C, G, O/B, RC, RH, W, Y	5-1-1	Horizontal	Emerson	1F80-361	**2NY19**
	C, G, O/B, RC, RH, W, Y	5-1-1, 5-2, 7 Day	Horizontal	Emerson	1F83C-11PR	**42PD14**
1H/1C Conventional, 2H/1C Heat Pump	B, C, E, G, O, R, W2, Y	5-1-1, 7 Day	Square	Pro1 Iaq	T725	**45KE90**
2H/2C Conventional	AUX/E, B, C, G, O, R, Y	5-2	Horizontal	Honeywell Home	TH2210DH1000	**14A007**
	C, E, G, L, O/B, R, W2, Y	5-1-1	Horizontal	Emerson	1F82-261	**3MY14**
	C, E, G, L, O/B, R, W2, Y	5-1-1, 5-2, 7 Day	Horizontal	Emerson	1F83H-21PR	**42PD15**
2H/2C Conventional, 4H/2C Heat Pump	6, C, G, L, O/B, RC, RH, W/E, W2, Y, Y2	7 Day	Horizontal	Emerson	1F95EZ-0671	**4UFU9**
Heat and Cool, Automatic and Manual Changeover						
3H/2C Conventional, 3H/2C Heat Pump	AUX, C, E, G, L, O/B, R, RC, S1, S2, W, W2, Y, Y2	7 Day	Horizontal	Dayton	6EDZ6	**6EDZ6**
3H/2C Conventional, 4H/2C Heat Pump	A, C, E, G, RC, RH, S1, S2, S3, SC, W1 (B/O), W2 (AUX), Y1, Y2	5-1-1, 5-2, 7 Day	Horizontal	Peco	T8532-001	**6FFW8**
3H/3C Conventional, 4H/2C Heat Pump	AS, AUX, EBUS, G, HC, HP, HS, M, O/B, OS, RC, RH, T3, T4, T5, T6, T7, W1, W2, W3, X, Y1, Y2, Y3	365 Day Programming	Horizontal	Honeywell	T7351F2010	**1YMG4**
Heat and Cool, Automatic Changeover						
1H/1C Conventional, 1H/1C Heat Pump	E, G, O/B, W, W2, Y	5-1-1, 5-2, 7 Day	Square	Honeywell Home	TH4110U2005/U	**54DM26**
	C, G, R, RC, W-O/B, Y	5-1-1, 5-2	Horizontal	Honeywell Home	TH6110D1005	**6WY10**
	C, G, R, RC, W-O/B, Y		Horizontal	Honeywell Home	TH6110D1021	**6WY11**
1H/1C Conventional, 2H/1C Heat Pump	-, +, 6, C, G, L, O/B, RC, RH, S, W/E, Y	5-1-1, 7 Day	Horizontal	Emerson	1F97-1277	**1MBD8**
	AUX, C, E, G, K, L/A, O/B, R, RC, S, U, W, W2, Y, Y2	5-1-1, 5-2, 7 Day	Square	Honeywell Home	TH6210U2001/U	**54DM25**
2H/2C Conventional, 2H/1C Heat Pump	AUX, C, E, G, K, L/A, O/B, R, RC, S, U, W, W2, Y, Y2		Square	Honeywell Home	TH6220U2000/U	**54DM24**
	C, G, R, RC, W-O/B, W2-AUX/E, Y, Y2-L	5-1-1, 5-2	Horizontal	Honeywell Home	TH6220D1002	**6WY12**
	C, G, R, RC, W-O/B, W2-AUX/E, Y, Y2-L		Horizontal	Honeywell Home	TH6220D1028	**6WY13**
2H/2C Conventional, 2H/2C Heat Pump	C, G, L, O/B/6, RC, RH, W/E, W2, Y, Y2	5-1-1, 5-2, 7 Day	Horizontal	Emerson	1F85U-22PR	**42PD16**
2H/2C Conventional, 3H/2C Heat Pump	B, C, G, O, RC, RH, W/E, W2, Y, Y2	5-1-1, 7 Day	Square	Pro1 Iaq	T855	**45KE83**
	AUX, C, E, G, K, L/A, O/B, R, RC, S, U, W, W2, Y, Y2	5-1-1, 5-2, 7 Day	Square	Honeywell Home	TH6320U2008/U	**54DM23**
2H/2C Conventional, 4H/2C Heat Pump	-, +, 6, C, G, L, O/B, RC, RH, S, W/E, W2, Y, Y2	5-1-1, 7 Day	Horizontal	Emerson	1F95-1277	**1MBD7**
	C, G, L, O/B/6, RC, RH, W/E, W2, Y, Y2	5-1-1, 5-2, 7 Day	Horizontal	Emerson	1F85U-42PR	**42PD17**
	-, +, 6, C, G, L, O/B, RC, RH, S, W/E, W2, Y, Y2	5-1-1, 7 Day	Horizontal	Emerson	1F95-0671	**4UFV1**
	-, +, 6, A1, C, G, L, O/B, RC, RH, S, W/E, W2, Y, Y2		Horizontal	Emerson	1F95-1280	**4UFV3**

45KE84

14A006

6EDZ6

4UFV1

Programmable Low-Voltage School-Series Thermostats

Create a different heating or cooling schedule for school days and nights, saving energy when educational facilities are unoccupied. Locking cover helps prevent tampering.

Stages	Terminal Designations	Programming Capability	Temperature Control Range	Voltage	Humidification Control	Mfr. Model	Item No.
3H/2C Conventional, 4H/2C Heat Pump	A, C, E, G, RC, RH, S1, S2, S3, SC, W1 (B/O), W2 (Aux), Y1, Y2	5-1-1, 5-2, 7 Day	50° to 90°F	20 to 30V AC	No	T4932SCH-001	**29AT95**
					Yes	T4932SCH-002	**29AT96**

29AT96

Programmable Wireless Low-Voltage Thermostats

Wirelessly interact with heating and cooling systems to control the temperature, so they can be relocated or upgraded without running new wires.

45KE79

3RCN1

4NE59

Stages	Terminal Designations	Programming Capability	Humidification Control	Mounting Direction/Shape	Voltage	Brand	Mfr. Model	Item No.
Heat and Cool, Automatic and Manual Changeover								
1H/1C Conventional, 1H/1C Heat Pump	C, G, K, R, RC, S1 S1, W-O/B, Y	7 Day	Yes	Horizontal	18 to 30V AC	Honeywell Home	TH8110R1008	**34GR14**
2H/2C Conventional, 3H/2C Heat Pump	C, G, L, R, RAS, RC, RH, W-O/B, W2-AUX/E, Y, Y2	5-1-1, 5-2	No	Horizontal	20 to 30V AC	Honeywell Home	TH6320R1004	**279A62**
	B, C, D, G, H, O, RC, RH, W/E, W2, Y, Y2	5-1-1, 7 Day	Yes	Square	24V AC	Pro1 Iaq	T955WH	**45KE79**
Heat and Cool, Automatic Changeover								
2H/2C Conventional, 3H/2C Heat Pump	A-L/A, C, G, K, R, RC, S1 S1, U1 U1, W-O/B, W2-AUX/E, Y, Y2	7 Day	Yes	Horizontal	18 to 30V AC	Honeywell Home	TH8321R1001	**34GR15**
	C, G, L, R, RAS, RC, RH, W-O/B, W2-AUX/E, Y, Y2	5-1-1, 5-2	No	Horizontal	18 to 30V AC	Honeywell Home	YTH6320R1001	**3RCN1**
	A-L/A, C, G, K, R, RC, S1 S1, W-O/B, W2-AUX/E, Y, Y2	7 Day	No	Horizontal, Vertical	18 to 30V AC	Honeywell Home	TH8320R1003	**4NE59**

Programmable Low-Voltage Hydronic Thermostat

- Temperature Control Range: 40° to 90°F
- Push button control type
- Mounting Direction: Horizontal
- Features a slab sensor for accurately sensing and controlling the floor temperature.

Stages	Terminal Designations	Programming Capability	Voltage	Mfr. Model	Item No.
1H Heat Pump	C, R, Rc, S, W	5-1-1, 5-2, 7-Day, Not Programmable	20 to 30V AC	TH6100AF2004/U	**443W18**

Honeywell Home | Johnson Controls | Emerson | PRO

Residential/Light Commercial Wi-Fi Programmable Low-Voltage Thermostats

Compatible with conventional forced air or heat pump systems.

36WH84

45KE77

Stages	Terminal Designations	Humidification Control	Smart Capabilities	Wi-Fi Frequency	Mounting Direction	Housing Color	Brand	Mfr. Model	Item No.
Touch Screen									
2H/2C Conventional, 2H/1C Heat Pump	E, G, L/A, O/B, U/U, W, W2, Y, Y2	No	Geofencing, Voice Enabled	2.4 GHz	Horizontal	White	Honeywell Home	TH6220WF2006/U	**54DM22**
2H/2C Conventional, 3H/2C Heat Pump	AUX, C, G, O/B, R, RH, W, W2, Y, Y2	Yes	Occupancy Sensing	2.4 GHz	Horizontal	Gray	Johnson Controls	SiO2-00000	**451G30**
2H/2C Conventional, 3H/3C Heat Pump	C, G, K, L, R, RC, W-O/B, W2 (AUX/E), Y, Y2	No	Smart Response, Voice Enabled	2.4 GHz	Horizontal	White	Honeywell Home	TH9320WF5003	**30ZZ03**
	A, AUX/E, C, G, K, L/A, O/B, R, RC, RH, U1/U2.S1/S2, W, W2, Y, Y2	Yes	Voice Enabled	2.4 GHz	Horizontal	White	Honeywell Home	TH8321WF1001	**36WH84**
	C, E, G, K, L/A, O/B, R, RC, S, W, W2 - AUX, Y, Y2	No	Voice Enabled	—	Horizontal	White	Honeywell Home	TH6320ZW2003/U	**493Z81**
	E, G, L/A, O/B, U/U, W, W2, Y, Y2	No	Geofencing, Voice Enabled	2.4 GHz	Horizontal	White	Honeywell Home	TH6320WF2003/U	**54DM21**
	AUX, C, E, G, K, L, O/B, R, RC, S, U, W, Y, Y2	Yes	Voice Enabled	2.4 GHz, 5.4 GHz	Horizontal	White	Honeywell Home	THX321WFS2001W	**54XZ80**
2H/2C Conventional, 4H/2C Heat Pump	C, G, L, O/B/6, RC, RH, W/E, W2, Y, Y2	Yes	Geofencing, Smart Alerts	—	Horizontal	White	Emerson	1F95U-42WF	**410X67**
Push Button									
1H/1C Conventional, 1H/1C Heat Pump	B, C, G, O, RC, RH, W, Y	No	—	—	Horizontal or Vertical	White	Pro1 Iaq	T701i	**45KE77**
2H/2C Conventional, 3H/2C Heat Pump	B, C, G, O, RC, RH, W/E, W2, Y, Y2	No	—	—	Horizontal or Vertical	White	Pro1 Iaq	T855i	**45KE76**
2H/2C Conventional, 4H/2C Heat Pump	C, G, L, O/B/2, RC, RH, W/E, W2, Y, Y2	Yes	Geofencing, Smart Alerts	—	Horizontal	White	Emerson	1F87U-42WF	**49VR96**
2H/2C Conventional, 5H/3C Heat Pump	B, C, G, O, RC, RH, S1, S2, W/E, W2, Y, Y2	Yes	—	—	Vertical	White	Pro1 Iaq	T855iSH	**60FD48**

Johnson Controls

Commercial Wi-Fi Programmable Low-Voltage Thermostats

- Mounting Direction: Horizontal

For use with fan coil units, rooftop units, heat pumps.

53WN09

55LT56

55LT64

Stages	Terminal Designations	Humidification Control	Smart Capabilities	Wi-Fi Frequency	Housing Color	Mfr. Model	Item No.
Touch Screen							
3H/2C Conventional, 4H/2C Heat Pump	C, G, R, Sensor, W1/O/B, W2, W3/AUX, Y1, Y2	Yes	Smart Alerts	—	White	T9100	**53WN09**
		No	Smart Alerts	—	White	T9180	**53WN10**
		Yes	Smart Alerts	—	White	T9500	**53WN11**
		No	Cloud Enabled	—	White	T9580	**53WN12**
1H/1C Conventional, 1H/1C Heat Pump	B1, B2, COS, R, Sensor	No	—	2.4 GHz	Black	TEC3312-13-000	**55LT56**
		Yes	—	2.4 GHz	White	TEC3312-14-000	**55LT57**
		Yes	—	—	—	TEC3313-13-000	**55LT58**
		Yes	Occupancy Sensing	2.4 GHz	White	TEC3313-14-000	**55LT59**
		Yes	—	2.4 GHz	Black	TEC3322-13-000	**55LT60**
		Yes	—	2.4 GHz	White	TEC3322-14-000	**55LT61**
		Yes	—	—	—	TEC3323-13-000	**55LT62**
		Yes	Occupancy Sensing	2.4 GHz	White	TEC3323-14-000	**55LT63**
2H/2C Conventional, 3H/2C Heat Pump		Yes	—	2.4 GHz	White	TEC3330-14-000	**55LT64**
		Yes	—	2.4 GHz	Black	TEC3330-13-000	**55LT65**
		Yes	Occupancy Sensing	2.4 GHz	White	TEC3331-14-000	**55LT66**
		Yes	Occupancy Sensing	—	—	TEC3331-13-000	**55LT67**

Honeywell Home

Wi-Fi Programmable Wireless Thermostat for Ductless Mini-Splits

- Temperature Control Range: 37° to 102°F
- Mounting Direction: Horizontal

Controls the temperature of ductless, mini-split air conditioners in residential and light commercial buildings.

Fan Settings	Programming Capability	Smart Capabilities	Wi-Fi Frequency	Voltage	Mfr. Model	Item No.
Touch Screen						
Hi-Med-Low-Auto	5-2, 7-Day	Geofencing	2.4 GHz	24V AC	DC6000WF1001/U	**493Z80**

Johnson Controls · Dayton · Honeywell Home · EMERSON · PERFECTSENSE · PRO · Columbus Electric · Honeywell · SIEMENS

Analog Line-Voltage Thermostats

Nonprogrammable and suitable for basic heating and cooling control in residential and commercial settings.

Switch Type/Action	Control Type	System Settings	Voltage	H	W	D	Brand	Mfr. Model	Item No.
Cool Only, Stages: 1C									
SPST, Close on Rise	Exposed Dial	On-Off	24 to 277V AC	5 3/16 in	2 13/16 in	2 5/8 in	Johnson Controls	T22JAA-1C	**20XJ79**
	Exposed Dial	On-Off	120 to 277V AC	4 3/4 in	2 7/8 in	1 1/2 in	Dayton	6GVX8C	**6GVX8**
Heat Only, Stages: 1H									
DPST, Open on Rise	Exposed Dial	On-Off	120 to 277V AC	4 9/16 in	2 7/8 in	1 15/16 in	Honeywell Home	T498B1512	**2E832**
	Exposed Dial	On-Off	240 to 277V AC	4 1/2 in	2 3/4 in	1 1/4 in	Emerson	1A66-641	**4E037** *
	Exposed Dial	On-Off	120 to 277V AC	4 3/4 in	2 7/8 in	1 1/2 in	Dayton	4PU48C	**4PU48**
SPDT, Open/Close on Rise	Exposed Dial	On	120 to 277V AC	5 1/8 in	2 7/8 in	3 7/8 in	Emerson	1A10-651	**2E734**
	Exposed Dial	On	120 to 240V AC	5 1/8 in	2 7/8 in	3 7/8 in	Emerson	1A16-51	**3TZ43**
SPST, Open on Rise	Exposed Dial	On-Off	24 to 277V AC	5 3/16 in	2 13/16 in	2 5/8 in	Johnson Controls	T22AAA-1C	**20XJ77**
	Exposed Dial	On-Off-Fan	120 to 240V AC	5 3/16 in	2 13/16 in	2 5/8 in	Johnson Controls	T22CBC-1C	**20XJ78**
	Exposed Dial	On	24 to 277V AC	4 11/16 in	3 in	2 7/8 in	Johnson Controls	T26A-15C	**20XJ83**
	Exposed Dial	On	120 to 240V AC	4 1/2 in	4 1/2 in	2 1/4 in	Emerson	152-9	**2E369**
	Concealed Dial	On	120 to 240V AC	4 1/2 in	4 1/2 in	2 1/4 in	Emerson	152-10	**2E477**
	Exposed Dial	On	120 to 277V AC	4 9/16 in	2 7/8 in	1 15/16 in	Honeywell Home	T498A1778	**2E831**
	Exposed Dial	On	24 to 277V AC	5 in	3 in	3 in	Johnson Controls	T26A-14C	**36P596**
	Exposed Dial	On	120 to 277V AC	4 1/2 in	2 7/8 in	2 5/8 in	Honeywell Home	T4398A1021	**4CZ52**
	Exposed Dial	On	120 to 277V AC	4 1/2 in	2 3/4 in	1 1/4 in	Emerson	1A65-641	**4E036**
	Exposed Dial	On-Off	120 to 277V AC	4 3/4 in	2 7/8 in	1 1/2 in	Dayton	4PU49C	**4PU49**
	Exposed Dial	On-Off	120 to 277V AC	4 1/2 in	2 3/4 in	1 in	Perfectsense	PS801	**53EA92**
	Exposed Dial	On	120 to 277V AC	4 11/16 in	2 15/16 in	1 in	Pro1 Iaq	T501ML2	**60FD43**
Heat or Cool, Stages: 1H/1C									
SPDT, Open/Close on Rise	Exposed Dial	Cool-Heat-Off		4 3/4 in	2 7/8 in	1 1/2 in	Columbus Electric	ETD9STGS	**2E158**
	Exposed Dial	Cool-Heat-Off	0 to 277V AC	5 in	3 in	3 in	Johnson Controls	T22SFB-1C	**36P594**
Heat and Cool, Stages: 1H/1C									
SPDT, Open/Close on Rise	Exposed Dial	Auto	120 to 240V AC	5 5/16 in	3 1/8 in	1 5/8 in	Honeywell	T6051A1016	**2E517**
	Exposed Dial	Auto	24 to 277V AC	5 in	3 in	3 in	Johnson Controls	T26S-18C	**36P597**
	Exposed Dial	Auto	24 to 277V AC	5 in	3 in	3 in	Johnson Controls	T26S-22C	**36P598**
	Exposed Dial	Auto	24 to 277V AC	5 in	3 in	3 in	Johnson Controls	T26T-3C	**36P599**
	Concealed Dial, Exposed Dial	Auto	120 to 240V AC	3 5/8 in	5 5/8 in	3 5/8 in	Siemens	134-1084	**40PN31**
	Exposed Dial	Auto	120 to 277V AC	4 9/16 in	2 13/16 in	1 13/16 in	Honeywell	T651A3018	**4NE56**
Heat and Cool, Stages: 2H/2C									
SPDT, Open/Close on Rise	Exposed Dial	Auto	120 to 277V AC	5 in	3 in	3 in	Johnson Controls	T25A-1C	**36P595**

**** Double pole disconnect with Off position that mechanically breaks both sides of line.***

2E832

2E477

2E158

36P594

Dayton · Columbus Electric

Analog Attic Fan Thermostats

These nonprogrammable thermostats control the flow of cool air intake and hot air exhaust of single-stage attic fans, regulating the temperature of a building's upper levels and attic spaces.

Control Type	Temperature Control Range	Voltage	H	W	D	Brand	Mfr. Model	Item No.
Adjustable Screw	60° to 120°F	120V AC	4 1/4 in	6 1/4 in	1 15/16 in	Dayton	10N203	**10N203**
Exposed Dial	80° to 130°F	120 to 240V AC	4 9/16 in	2 13/16 in	1 1/2 in	Columbus Electric	1A22-7	**2E340**

10N203

Honeywell Home · EMERSON

Nonprogrammable Digital Line-Voltage Thermostats

Used for the basic control of heating systems in residential and commercial applications.

196Z37

2NKW5

Switch Type/Action	Control Type	Temperature Control Range	Voltage	H	W	D	Key Features	Brand	Mfr. Model	Item No.
SPST, Open on Rise	Push Button	41° to 86°F	240V AC	4 13/16 in	4 1/2 in	1 1/2 in	Memory is Stored During a Power Outage	Honeywell Home	RLV3150A1004/E	**196Z37**
	Slide Switch	45° to 90°F	120V AC	5 in	4 3/16 in	1 1/4 in	Soundproofed for Quiet Operation	Emerson	1E65-144	**2NKW5**
DPST, Open on Rise	Push Button	32° to 122°F	208V AC	4 7/8 in	2 3/4 in	7/8 in	Soundproofed for Quiet Operation	Honeywell Home	TL7235A1003	**6WY23**

Honeywell Home · Dayton

Programmable Line-Voltage Thermostats

- Standard Programming: 7-Day
- Wireless Programming: 5-2, 7-Day

Standard models control the temperature of electric baseboard and fan-forced heaters. **Wireless** models wirelessly interact with heating systems and can be relocated without opening walls and running new wires.

1UHG4

349TG9

279A64

Switch Type/Action	Temperature Control Range	Voltage	Key Features	H	W	D	Brand	Mfr. Model	Item No.
Standard Programmable Thermostats									
DPST, Open on Rise	40° to 86°F	208 V AC	Soundproofed for Quiet Operation	4 7/8 in	2 3/4 in	7/8 in	Honeywell Home	TL8230A1003	**6WY24**
SPDT, Open on Rise	40° to 86°F	240 V AC	Battery Free Backup, Early Start Function	4 7/8 in	2 13/16 in	7/8 in	Honeywell Home	TH115-A-240D-B/U	**349TJ2**
SPST, Open on Rise	41° to 95°F	120 V AC		4 1/4 in	3 5/8 in	1 1/4 in	Dayton	1UHG4	**1UHG4**
	40° to 86°F	120 V AC	Battery Free Backup, Early Start Function	4 7/8 in	2 13/16 in	7/8 in	Honeywell Home	TH115-A-120S/U	**349NX3**
	32° to 86°F	208 V AC, 240 V AC	Away/Economy Mode, Battery Free Backup, Early Start, Large/Easy-Read, Quiet Operation, Temporary Override	4 7/8 in	2 3/4 in	7/8 in	Honeywell Home	TL8130A1005/U	**349TG9**
	40° to 86°F	240 V AC	Battery Free Backup, Early Start Function	4 7/8 in	2 13/16 in	7/8 in	Honeywell Home	TH115-A-240S-B/U	**349TJ3**
Wireless Thermostat									
SPST, Open on Rise	41° to 86°F	100 V AC, 240 V AC	Plain Language Interface, Precise Temperature Control	2 7/8 in	2 1/2 in	1 1/8 in	Honeywell Home	YTL9160AR1000	**279A64**

48GP69

11Z436

15F626

53CV88

Plug-In Line-Voltage Thermostats

These thermostats plug into a wall outlet, and include a piggyback outlet that allows users to directly plug in portable heating or cooling equipment.

Display Type	Switch Type/Action	Enclosure Rating/Material	Electrical Connection Type	Temp. Control Range	Temperature Differential	Sensor Type	H	W	D	Brand	Mfr. Model	Item No.
Freeze Protection Thermostats for Portable Heaters												
No Display	SPDT, Open on Rise	Not Rated, PVC	Receptacle Mount	35° to 45°F	10°F	Bi-Metal	1 45/64"	3 5/16"	1 7/64"	Dayton	48GP69	**48GP69**
Nonprogrammable Thermostats for Portable Cooling Equipment												
Analog	SPST, Close on Rise	NEMA 1, Steel	Corded	20° to 80°F	3.5°F	Remote Bulb				Johnson Controls	A19AAT-2C	**41W949**
Analog	SPST, Close on Rise	Not Rated, Steel	Corded	-10° to 100°F	6° to 8°F	Bi-Metal	5½"	2½"	2"	Columbus Electric	KTO-121B	**11Z436**
Nonprogrammable Thermostats for Portable Heaters												
Analog	SPST, Open on Rise	NEMA 1, Steel	Corded	35° to 95°F	3°F	Hydraulic Air Coil	4½"	2⅛"	2⅛"	Dayton	2NNR8	**2NNR8**
Analog	SPST, Open on Rise	NEMA 1, Stainless Steel	Corded	35° to 95°F	3°F	Hydraulic Air Coil	4½"	2⅛"	2⅛"	Dayton	2NNT5	**2NNT5**
Digital	SPST, Open on Rise	NEMA 1, Steel	Corded	35° to 95°F	3.5°F	Hydraulic Air Coil	5½"	2 3/16"	2 3/16"	Johnson Controls	A19BAG-1E	**2E535**
Digital	SPST, Open on Rise	Not Rated, PVC	Receptacle Mount	40° to 95°F	1°F	Thermistor	5½"	2⅞"	2⅝"	Dayton	1UHG6	**1UHG6**
Digital	SPST, Open on Rise	Not Rated, PVC	Receptacle Mount	5° to 35°C	1°F	Thermistor	5½"	2⅞"	2⅝"	Dayton	15F626	**15F626**
Programmable Thermostats for Portable Heaters & Window A/C												
Digital	SPST, Open on Rise	Not Rated, Plastic	Receptacle Mount	45° to 90°F	1°F	Thermistor	2¾"	5¼"	1¾"	LUX	PSP300	**53CV88**

1UHE3

1N172

Fan Coil Unit Thermostats

Low-Voltage models are for use with whole-building HVAC systems and typically run on 24VAC.

Line-Voltage are for HVAC systems that require direct electrical power and typically run on 120V or 240V.

3RCK7, 3RCK8, 3RCK9, and 278Y50 feature high/low-temp. limits and energy-saving mode with selectable heating or cooling setback points.

278Y50 is prewired to ease installation.

2NCA6 and 2NCA7 provide partial or full keypad lockout.

3RCK7

36P601

4MY97

2NCA6

Stages	No. of Pipes	Thermostat Control Range	Switch Type	System Settings	Voltage	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Low Voltage											
Analog											
1H/1C	2 or 4	50° to 90°F	—	Cool-Heat-Off	24V	2 13/16 in	4 ½ in	1 in	Peco	TA167-007	**6FFX7**
Digital Nonprogrammable											
1H/1C	2 or 4	50° to 90°F	(5) SPST	Auto-Cool-Heat-Off	24V	3 13/16 in	5 13/16 in	1 ⅛ in	Honeywell	TB8575A1000/U	**3RCK9**
Programmable											
2H/1C	2 or 4	50° to 90°F	—	Auto-Cool-Emergency Heat-Heat-Off	24V	3 ¾ in	6 in	1 ⅜ in	Honeywell Home	TB7100A1000/U	**278Y50**
Line Voltage											
Analog											
—	1	40° to 90°F	SPDT	On-Off	120V AC	—	—	—	Dayton	1UHE3	**1UHE3**
1H/1C	1	36° to 90°F	SPDT	Cool-Heat-Off	120 to 277V AC	4 ½ in	4 ½ in	2 ¼ in	Emerson	1A11-2	**1N172** *
Digital Nonprogrammable											
1H/1C	2	50° to 90°F	(4) SPST	Auto-Cool-Heat-Off	120/240V AC	3 13/16 in	5 13/16 in	1 ⅛ in	Honeywell	TB6575B1000/U	**3RCK8**
1H/1C	2 or 4	50° to 90°F	(5) SPST	Auto-Cool-Heat-Off	120/240V AC	3 13/16 in	5 13/16 in	1 ⅛ in	Honeywell	TB6575A1000/U	**3RCK7**
Line/Low Voltage											
Analog											
1H/1C	1	40° to 90°F	SPDT	Cool-Heat-Off	24 to 277V AC	5 in	3 in	3 in	Johnson Controls	T46SAA-1C	**36P601**
1H/1C	1	50° to 90°F	SPDT	On-Off	24 to 277V AC	4 ½ in	2 ⅞ in	1 1/16 in	Peco	TB155-046	**4MY97**
1H/1C	4	50° to 90°F	SPDT	Cool-Heat-Off	24 to 277V AC	4 ½ in	2 ⅞ in	1 1/16 in	Peco	TA155-046	**4MY96**
Digital Nonprogrammable											
1H/1C	2 or 4	50° to 90°F	—	Auto-Cool-Heat-Off	24 or 110 to 277V AC	4 ⅜ in	5 13/16 in	1 ⅜ in	Peco	TB170-001	**2NCA7**
1H/1C	1	40° to 90°F	SPDT	Cool-Heat-Off	24 to 277V AC	4 11/16 in	4 ⅞ in	2 15/16 in	Johnson Controls	T46SDA-1C	**20XJ84**
1H/1C	2 or 4	50° to 90°F	—	Auto-Cool-Heat-Off	24 or 110 to 277V AC	4 ⅜ in	5 13/16 in	1 ⅜ in	Peco	TA170-001	**2NCA6**
Programmable											
2H/1C	2 or 4	50° to 90°F	—	Auto-Cool-Heat-Off-Setback	24 or 110 to 277V AC	4 ⅜ in	5 13/16 in	1 ⅜ in	Peco	TA180-001	**6FFX4**
Accessory											
SuitePro Wall Plate Adapter, Direct Mount On Junction Box, For Use With Mfr. No. TB6575A1000/U, TB6575B1000/U, TB8575A1000/U, TB7100A1000/U									Honeywell	50033847-001/U	**3RCL1**

** 125VA pilot duty contacts.*

Thermostat Remote Sensors

6WY16

- Indoor use only
- Occupancy Sensor 2NCC2 has a coverage angle of 110°, 4000 sq. ft. coverage
- Occupancy Sensor 2NCC3 has a coverage angle of 360°, 3000 sq. ft. coverage

Allow thermostats to monitor temperatures and other conditions in spaces away from where the thermostat is installed. 3RCP6 is for use when using multiple sensors to help maintain more even heating and cooling.

Application	Compatible Brand and Series	Temperature Range	Mounting Type	Electrical Connection Type	Includes	Brand	Mfr. Model	Item No.
Multi-Function Sensors								
Humidity, Temperature	RedLink Enabled Thermostats And Accessories	0° to 120°F	Surface Mount	Battery	(2) AAA Batteries, Mounting Hardware	Honeywell Home	C7189R1004	**12Z045**
Occupancy Sensors								
Motion	PECO	-4° to 100°F	Surface Mount	Hardwired	—	Peco	SB200-001	**2NCC2**
Motion	PECO	-4° to 100°F	Surface Mount	Hardwired	—	Peco	SA200-001	**2NCC3**
Temperature Sensors								
Humidity, Temperature	VisionPRO® and VisionPRO® IAQ Series Thermostats	45° to 88°F	Surface Mount	Hardwired	Plastic Housing	Honeywell Home	C7189U1005	**6WY16**
Temperature	White-Rodgers 90 Series 12 in and 6 in Blue Thermostats	99°F	Surface Mount	Hardwired	Mounting Hardware	Emerson	F145-1328	**3MY18**
Temperature	Honeywell	45° to 99°F	Junction Box	Hardwired	Cover, Subbase	Honeywell	TR21	**3RCP5**
Temperature	Honeywell	45° to 99°F	Junction Box	Hardwired	Cover, Subbase	Honeywell	TR21-A	**3RCP6**

Thermostat Guards

Cover Type	Thermostat Guard Cover Color	Base Type	Guard Construction	Inside H	Inside W	Inside D	Outside H	Outside W	Outside D	Brand	Mfr. Model	Item No.
Aluminum Cage Thermostat Guards												
Snap-On	Silver	Solid Base	Single Wall	6 3/16 in	3 ⅝ in	2 9/16 in	6 ¾ in	4 3/16 in	2 11/16 in	Johnson Controls	GRD10A-601	**20RG68**
Plastic Thermostat Guards with Lock & Key												
Hinged	Clear	Ring Base	Single Wall	5 ½ in	7 ¼ in	2 ⅝ in	5 ½ in	7 ¼ in	2 ½ in	Pro1 Iaq	T150	**45KF09**
Snap-On	Clear	Ring Base, Solid Base	Single Wall	6 13/16 in	4 in	3 in	8 in	5 in	3 ⅜ in	—	2E379	**2E379**
Snap-On	Clear	Ring Base, Solid Base	Single Wall	6 1/16 in	5 1/16 in	2 ⅝ in	7 5/16 in	6 5/16 in	3 in	—	2E430	**2E430**
Snap-On	Clear	Ring Base, Solid Base	Single Wall	8 11/16 in	5 3/16 in	3 ½ in	9 11/16 in	6 3/16 in	3 ⅞ in	—	2E706	**2E706**
Snap-On	Clear	Ring Base, Solid Base	Single Wall	7 ½ in	4 11/16 in	2 ⅛ in	8 ½ in	5 11/16 in	2 ½ in	—	2E999	**2E999**
Snap-On	Clear	Ring Base, Solid Base	Single Wall	4 5/16 in	4 ¼ in	2 ½ in	5 3/16 in	5 3/16 in	2 ⅝ in	—	3TZ57	**3TZ57**
Snap-On	Clear	Ring Base, Solid Base	Double Wall	8 ⅜ in	5 ⅞ in	3 in	9 ⅝ in	7 ⅛ in	3 ⅜ in	—	4E649	**4E649**
Snap-On	Clear	Ring Base	Single Wall	4 7/16 in	4 7/16 in	2 ¼ in	5 ⅞ in	5 ⅞ in	2 ½ in	Honeywell Home	CG510A1019/N	**58PH96**
Snap-On	Clear	Ring Base	Single Wall	5 ¾ in	8 ¼ in	2 ¾ in	7 ¼ in	9 ¾ in	3 ⅜ in	Honeywell Home	CG512A1009/C	**58PH98**
Snap-On	Off-White	Ring Base, Solid Base	Double Wall	4 7/16 in	4 7/16 in	2 ¼ in	5 ⅝ in	5 ⅝ in	2 ⅝ in	—	4E644	**4E644**
Snap-On	Off-White	Ring Base, Solid Base	Double Wall	4 7/16 in	4 7/16 in	2 ¼ in	5 ⅝ in	5 ⅝ in	2 ⅝ in	—	4E645	**4E645**
Snap-On	Off-White	Ring Base, Solid Base	Double Wall	6 1/16 in	5 1/16 in	2 ⅝ in	7 5/16 in	6 5/16 in	3 in	—	4E647	**4E647**
Snap-On	Off-White	Ring Base, Solid Base	Double Wall	8 ⅜ in	5 ⅞ in	3 in	9 ⅝ in	7 3/16 in	3 ⅜ in	—	4E650	**4E650**
Stainless Steel Thermostat Guards with Lock & Key												
Hinged	Silver	Ring Base, Solid Base	Single Wall	8 ⅝ in	6 ¾ in	3 in	9 3/16 in	7 ¼ in	3 5/16 in	—	13J044	**13J044**
Hinged	Silver	Ring Base, Solid Base	Single Wall	4 ⅝ in	5 ¼ in	2 ½ in	5 3/16 in	5 13/16 in	2 11/16 in	—	13J045	**13J045**
Hinged	Silver	Ring Base	Single Wall	7 ⅞ in	5 11/16 in	3 ⅜ in	8 7/16 in	6 ¼ in	3 11/16 in	—	13J046	**13J046**
Steel Cage Thermostat Guards												
Snap-On	Silver	No Base	Single Wall	6 3/16 in	3 ⅝ in	2 9/16 in	6 ¾ in	4 3/16 in	2 11/16 in	Johnson Controls	GRD10-1R	**20RG67**
Steel Thermostat Guards with Lock & Key												
Hinged	Beige	Ring Base, Solid Base	Single Wall	8 ⅝ in	6 ¾ in	3 in	9 3/16 in	7 ¼ in	3 5/16 in	—	13J040	**13J040**
Hinged	Beige	Ring Base, Solid Base	Single Wall	4 ⅝ in	5 ¼ in	2 ½ in	5 3/16 in	5 13/16 in	2 13/16 in	—	13J041	**13J041**
Hinged	Beige	Ring Base, Solid Base	Single Wall	7 ⅞ in	5 11/16 in	3 ⅜ in	8 7/16 in	6 ¼ in	3 11/16 in	—	13J043	**13J043**
Hinged	Off-White	Ring Base, Solid Base	Single Wall	8 ⅝ in	6 ¾ in	3 in	9 3/16 in	7 ¼ in	3 5/16 in	—	13J048	**13J048**
Hinged	Off-White	Ring Base	Single Wall	7 ⅞ in	5 11/16 in	3 ⅜ in	8 7/16 in	6 ¼ in	3 11/16 in	—	13J050	**13J050**
Hinged	Off-White	Ring Base, Solid Base	Single Wall	7 ⅞ in	5 11/16 in	3 ⅜ in	8 7/16 in	6 ¼ in	3 11/16 in	—	13J051	**13J051**
Snap-On	Beige	Ring Base	Single Wall	4 ½ in	6 ⅝ in	3 ⅜ in	8 7/16 in	6 in	3 ½ in	Emerson	F29-0222	**48FX11**

20RG68

58PH96

13J044

13J040

Thermostat Wall Cover Plates

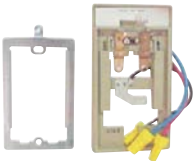
Additional cover plates can be found on Grainger.com; search for "wall cover plates".

Compatible Brand and Series	Color/Material	Mounting Direction/Shape	Overall HxW	Brand	Mfr. Model	Item No.
Pro 1	White, Plastic	Horizontal or Vertical	5 ½ in x 7 ½ in	Pro1 Iaq	T119	**45KF10**
CommercialPRO 7000 Series, FocusPRO 5000 and 6000 Series, PRO 1000, 2000, 3000, and 4000 Series	White, Plastic	Horizontal	6 in x 8 5/16 in	Honeywell Home	50002883-001	**6WY14**
FocusPRO TH5110 Series	White, Plastic	Horizontal	4 5/16 in x 5 ½ in	Honeywell Home	50001137-001	**4YE44**
VisionPRO 8000 Series	White, Plastic	Horizontal	5 ½ in x 7 ⅞ in	Honeywell Home	32003796-001	**6WY15**

45KF10

Thermostat Mounting Kits

Accessory Type	Compatible Brand and Series	Compatible Grainger Part No.	Includes	Brand	Mfr. Model	Item No.
Subbase	White-Rodgers 1A10-651, 1A16-51	2E734, 3TZ43	Mounting Hardware	Emerson	S29-21	**2E735**
Temperature Sensor Duct Mount Plate	Johnson Controls TE 6001 Series	20XG79, 36P610, 36P611, 58YJ79	Wallplate Adaptor; Mounting Hardware	Johnson Controls	TE-6001-1	**36P612**
Temperature Sensor Outside Air Housing	Johnson Controls TE 6001 Series	20XG79, 36P610, 36P611, 58YJ79	Wallplate Adaptor; Mounting Hardware	Johnson Controls	TE-6001-2	**36P613**
Temperature Sensor Wall Mount Plate	Johnson Controls T4000 Series	20XG79, 36P610, 36P611, 58YJ79	Wallplate Adaptor; Mounting Hardware	Johnson Controls	TE-1800-9600	**36P609**
Temperature Sensor Wall Mount Plate	Johnson Controls TE 6001 Series	20XG79, 36P610, 36P611, 58YJ79	Wallplate Adaptor; Mounting Hardware	Johnson Controls	TE-6001-4	**36P615**
Temperature Sensor Well Mounting Kit	Johnson Controls TE 6001 Series	20XG79, 36P610, 36P611, 58YJ79	Wallplate Adaptor; Mounting Hardware	Johnson Controls	TE-6001-3	**36P614**


2E735

36P615

Thermostat Connectivity Accessories

493Z82

12Z040

437T13

35LY97

Function	Key Features	Compatible Brand and Series	Compatible Grainger Part No.	Brand	Mfr. Model	Item No.
C-Wire Adapters						
C-Wire Adapter	Acts as a Splitter	RedLINK 8000 series	—	Honeywell Home	THP9045A1098/U	**493Z82**
Equipment Interface Modules						
Control 4H/2C stages in a heat pump system or 3H/2C in a conventional system	Four Sensor Inputs	Prestige, RedLINK, VisionPRO	—	Honeywell Home	YTHM5421R1010/U	**12Z040**
Electrical Heat Equipment Interface Module	Plain-Language Interface, Precise Temperature Control, Wireless Installation	Econnect	117DW7, 14A010, 279A64	Honeywell Home	TLM1110R1000	**14A011**
Control 3H/2C stages in a heat pump system or 2H/2C in a conventional system	LED, Quick-Connect Terminal Blocks	FocusPRO	3RCL7, 3RCL8	Honeywell Home	THM5320R1000	**3RCN9**
C-Wire Adapter	Communicates with Wireless Outdoor Sensor	RedLINK, TrueZONE	3RCL7, 3RCL8	Honeywell Home	THM4000R1000	**3RCP1**
Wireless Control for Zoning Damper	Measures Discharge Air Temperature, Mounts in Duct above the Heat Exchanger	Pro1 IAQ	45KE78, 45KF02	Pro1 Iaq	Z260W	**45KF03**
Internet Gateways						
—	3 ft Cat 5 Cable, 5V DC,1000mA Plug in Power Adapter	RedLINK	3RCP1	Honeywell Home	THM6000R7001/U	**437T13**
Wi-Fi Cards						
Wi-Fi key for Remote Connectivity	Configurable Alerts, Multi-Lingual Display Options, Password Protection Capability	Johnson Controls T8000 Series	—	Johnson Controls	ACC-WIFI	**35LY97**

Humidity Controls

Provide user-set dew point control of humidification, dehumidification, or ventilation equipment.

Description	Voltage	Mounting	Adjustable Range	Height	Width	Depth	Brand	Mfr. Model	Item No.
Dehumidifier Controller	24/120/240 V AC	Wall	20 to 80% RH	4 ¾ in	3 in	2 ⅛ in	Honeywell Home	H46C1166	**2E574**
	24 V AC	Wall or Return Duct	20 to 80% RH	2 ½ in	4 in	5 ½ in	Honeywell Home	H8908DSPST	**3CHK4**
Dehumidistat, Contact Rating 7.5, SPST, Rotary Dial	120 V AC	Standard Gang Box	20 - 80% RH	—	—	—	Fantech	FH 20	**15W825**
Humidifier Controller	24 V AC	Wall or Return Duct	10 to 60% RH	3 ¾ in	5 ¼ in	2 ⅜ in	Honeywell Home	H8908ASPST	**3CHL6**
Humidistat	120/240 V AC	Standard Outlet Box	10% to 90% RH	4 ⅜ in	2 ⅝ in	½ in	Johnson Controls	W42AA-1C	**20XJ24**
	120/240 V AC	Vertical or Horizontal	0% to 70% RH	4 ¾ in	3 in	3 in	Johnson Controls	W43A-14C	**20XJ25**
Hygrostat, Closes on Rise, Opens on Fall	24-230 V AC	DIN Rail	50 to 100% RH	2 ¾ in	⅞ in	2 ¾ in	Rittal	3118000	**6YDK6**

2E574

15W825

20XJ24

6YDK6

38Y076

40PN32

6GVX9

1RC43

2NNR5

Remote Bulb Controls

Have a capillary tube and sensor that monitor and regulate the temperature of the ambient air at a distance away from the control.

1RC43 and 2E399—Temperature dial is graduated in both °F and °C. 2E399 has bimetallic sensor.

2NNT3 and 2NNT4—Have stainless steel housing and capillary components for corrosive environments.

4E912 and 4E919—Used with room air conditioners, packaged terminal air conditioners, and heat pumps.

2KGR3—Has gas-filled bulb and electroplated copper capillary tube. For large coils where air stratification could cause localized freezing.

4MY93—Has corrosion-resistant stainless capillary and sensor for agricultural applications.

4E912

2KGR3

4MY93

Switch Type	Switch Action	Temperature Control Range	Temperature Differential	Bulb Length	Bulb Diameter	Capillary Length	Encl. Material	Voltage Range	Contact Rating Inductive Amps @ 120V	Contact Rating Inductive Amps @240V	Contact Rating Resistive Amps @ 240V (A)	Brand	Mfr. Model	Item No.
Defrost Duration & Fan Delay Single-Stage Controls														
SPDT	Open/Close on Rise	85° to 85°F	4°F	3 ¼ in	¼ in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ZBC-2C	**38Y076**
Freeze Protection Indoor Single-Stage Controls														
DPST		15° to 55°F	5°F	20 ft	¼ in	20 ft	Steel	120 to 277VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Siemens	134-1504	**40PN32**
SPDT	Open/Close on Rise	35° to 45°F	12°F	20 ft	¼ in	48 in	Steel	120 to 240VAC	16 A	3 A, 8 A	8 A	Siemens	134-1510	**40PN33**
		35° to 45°F	12°F	20 ft	¼ in	48 in	Steel	120 to 277VAC	16 A	3 A, 8 A	8 A	Siemens	134-1511	**40PN34**
SPST	Close on Rise	35° to 45°F	12°F	20 ft	¼ in	48 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A11A-1C	**38Y046**
		35° to 45°F	12°F	20 ft	¼ in	48 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A11B-1C	**38Y047**
Freeze Protection Weatherproof Single-Stage Controls														
SPST	Open on Rise	40°F	3°F	3 in	¼ in	30 in	Plastic	125, 250 to 480VAC	—	—	22 A	Raychem	AMC-F5	**45RK48**
Hazardous Location Single-Stage Controls														
DPDT	Open/Close on Rise	40° to 110°F	2° to 4°F	4 ¾ in	¼ in	5 ¼ in	Aluminum	120 to 277VAC	13.8 A	10 A	22 A	Columbus Electric	HLT-2-G	**6GVX9**
SPDT		0° to 150°F	6°F	2 ½ in	¼ in	10 ft	—		—	—	22 A	Penn	A19AUC-3C	**61TM20**
		100° to 250°F	6°F	2 ½ in	¼ in	10 ft	—		—	—	22 A	Penn	A19AUC-4C	**61TM21**
		40° to 110°F	2° to 4°F	4 ¾ in	¼ in	5 in	Aluminum		—	—	—	Columbus Electric	HLT-1	**61LA04**
High-Range Indoor Single-Stage Controls														
SPDT	Open/Close on Rise	100° to 240°F	6°F	3 ½ in	½ in	72 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19AAC-9C	**38Y049**
SPST	Open on Rise	200° to 550°F	10°F	6 in	¼ in	96 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19AAB-10C	**38Y048**
Indoor Single-Stage Controls														
SPDT	Open/Close on Rise	-30° to 90°F	4.5° to 40°F	5 ¼ in	½ in	96 in	Steel	120 to 240VAC	7.4 A	3.7 A	20 A	Emerson	1687-9	**2E399**
		0° to 120°F	3°F	5 in	¼ in	60 in	Plastic	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNR6	**2NNR6**
		-30° to 90°F	3°F	5 in	¼ in	96 in	Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNR7	**2NNR7**
		-30° to 90°F	3°F	5 in	¼ in	96 in	Stainless Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNT3	**2NNT3**
		-30° to 90°F	3° to 12°F	5 in	¼ in	96 in	Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	6EDY7	**6EDY7**
		25° to 225°F	3.5°F	3 in	½ in	120 in	Steel	24 to 277VAC	6 A	3 A	10 A	Johnson Controls	A19AAF-12C	**38Y051**
		-30° to 100°F	3° to 12°F	4 in	½ in	96 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-24C	**38Y058**
		-30° to 100°F	3° to 12°F	4 in	½ in	20 ft	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-36C	**38Y059**
		50° to 130°F	3.5° to 14°F	5 in	½ in	96 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-4C	**38Y062**
		-30° to 100°F	3°F	3 in	½ in	24 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19AGC-77C	**38Y066**
		0° to 100°F	3° to 10°F	4 ¼ in	½ in	20 ft	Steel	120 to 277VAC	8 A	5 A	—	Honeywell	T675A1565	**278Y81**
		0° to 100°F	3° to 10°F	4 ¼ in	½ in	20 ft	Steel	120 to 277VAC	8 A	5 A	—	Honeywell	T678A1015	**278Y80**
SPST	Close on Rise	-30° to 90°F	3.5° to 40°F	5 ¼ in	½ in	60 in	Steel	120 to 240VAC	16 A	8 A	22 A	Emerson	1609-101	**1RC43**
		-30° to 90°F	3°F	5 in	¼ in	60 in	Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNR5	**2NNR5**
		-30° to 90°F	3°F	5 in	¼ in	60 in	Stainless Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNT4	**2NNT4**
		30° to 50°F	2.5°F	2 ¾ in	½ in	72 in	Steel	24 to 277VAC	6 A	3 A	10 A	Johnson Controls	A19AAD-5C	**38Y050**
		-30° to 100°F	3° to 12°F	4 in	½ in	72 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABA-40C	**38Y052**
		-30° to 100°F	3° to 12°F	5 in	½ in	72 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABA-45C	**38Y054**
		-30° to 100°F	Manual Reset	4 in	½ in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ACA-14C	**38Y063**
		-30° to 100°F	Manual Reset	4 in	½ in	120 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ACA-15C	**38Y064**
	Open on Rise	50° to 200°F	6° to 24°F	2 ½ in	½ in	120 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABB-2C	**38Y055**
		100° to 240°F	Manual Reset	3 ½ in	½ in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ADB-1C	**38Y065**
Indoor Two-Stage Controls														
SPDT	Open/Close on Rise	30° to 110°F	3.5°/2° to 7°F	12 ft	¼ in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-28C	**38Y078**
		-30° to 100°F	5°/2° to 7°F	96 in	½ in	96 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-29C	**38Y079**
		40° to 90°F	3.5°/2° to 7°F	72 in	½ in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-36C	**38Y080**
		20° to 80°F	2°/2° to 7°F	72 in	¼ in	72 in	Steel	24 to 277VAC	6 A	3 A	8 A	Johnson Controls	A28AJ-4C	**20XJ45**
		20° to 80°F	2° to 7°F	—	½ in	72 in	Steel	24 to 277VAC	6 A	3 A	8 A	Johnson Controls	A28GA-23C	**20XJ46**
Rainproof Single-Stage Controls														
SPDT	Open/Close on Rise	0° to 150°F	5°F	2 ¼ in	¼ in	120 in	Steel	120 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ANC-1C	**38Y068**
Refrigeration Controls														
SPDT	Open/Close on Rise	60° to 98°F	3°F	9 in	⅜ in	36 in	Steel	120 to 277VAC	20 A	20 A	—	Ranco	C12-5010	**4E912**
		64° to 101°F	3.5°F	8 $^{9}/_{16}$ in	⅜ in	26 in	Steel	120 to 277VAC	20 A	20 A	—	Ranco	C17-100	**4E919**
Single-Stage Controls														
SPDT	Open/Close on Rise	100° to 240°F	6°F to 24°F	—	—	—	Steel	24 to 277VAC	10 A	6 A	—	Johnson Controls	A19ABC-11C	**38Y056**
		30° to 80°F	6°F to 24°F	—	—	—	Steel	24 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-39C	**38Y061**
Single-Stage Controls with Remote-Bulb Sensor														
SPDT	Open/Close on Rise	100° to 240°F	6°F to 24°F	—	—	8 ft	Steel	24 to 277VAC	10 A	6 A	—	Johnson Controls	A19ABC-12C	**38Y057**
Two-Circuit Indoor Single-Stage Controls														
SPST	Close on Rise	15° to 55°F	5°F	20 ft	¼ in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	3 A, 8 A	Johnson Controls	A70BA-18C	**38Y107**
	Open/Close on Rise	15° to 55°F	5°F	20 ft	¼ in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70GA-1C	**38Y108**
		35° to 80°F	3° to 30°F	3 in	½ in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70GA-2C	**38Y109**
		15° to 55°F	2°F	20 ft	¼ in	20 ft	Steel	24 to 240VAC	16 A	8 A	6 A, 8 A	Johnson Controls	A70HA-14C	**2KGR3**
		15° to 55°F	5°F	20 ft	¼ in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70HA-1C	**38Y110**
		35° to 80°F	6°F	3 in	½ in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70HA-2C	**38Y111**
		100° to 170°F	8°F	10 in	½ in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70KA-1C	**38Y112**
Weatherproof Single-Stage Controls														
DPST	Close on Rise	25° to 90°F	4° to 25°F	6 ¾ in	¾ in	72 in	Steel	120 to 600VAC	24 A	15 A, 24 A	24 A	Johnson Controls	A72AE-1C	**38Y113**
SPDT	Open on Rise	0° to 120°F	3°F	2 ¼ in	¼ in	60 in	Plastic	24, 120 to 277VAC	16 A	12 A	25 A	Peco	TRF115-005	**4MY93**

Description	Brand	Item No.
Accessory		
Replacement Thermostat Knob	Dayton	**6EDZ2**

Electronic Temperature Controls

- Digital display

Johnson Controls—A421 Series controls are single-stage, electronic temperature controls with SPDT output relay. The controls feature an adjustable backlit LCD for viewing the temperature and status of other functions, and a three-button touchpad for setup and adjustment. 35LY81 comes with factory-equipped power cord. 35LY80 and 35LY86 include Off-Cycle Defrost control with adjustable defrost cycle duration and frequency. 35LY79 and 35LY85 are freecooling, duty-cycle ventilation controls.

System 350 modular units provide On/Off and proportional temperature, humidity, and pressure control, and temperature reset.

System 450 digital modular units monitor and control temperature, humidity, and pressure simultaneously. Field-configurable out-of-the-box with Ethernet, Modbus, or Standalone communications options.

Honeywell—Vertically or horizontally mount the IP65 housing. Temperature Control 2GZN7 includes Remote Sensor 2GZP4.

- Throttling range: 1° to 150°F
- Thermistor sensor: 1097 ohms PTC at 77°F, ¼" dia. x 2"L
- NEMA enclosures have 9" leads

Ranco—Displays error codes. Keypad lockout, settings memory, and time delay on power up.

- Thermistor sensor: ¼" dia. x 4"L
- 0 to 10V output on 3ZP78, 3ZP80, 3ZP83, and 3ZP85

Description	Switch Type	Voltage Range	Control Range	No. of Relay Inputs	No. of Relay Outputs	Full Load Amps @ 120VAC	Full Load Amps @ 240VAC	Encl. Type	Mfr. Model	Item No.
Johnson Controls - A421										
Temp. Control, 6½ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABC-02C	**35LY75**
Temp. Control, 9¾ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABC-03C	**35LY76**
Temp. Control, 13 ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABC-04C	**35LY77**
Temp. Control, 19½ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABC-06C	**35LY78**
Defrost Control, 6½ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABD-02C	**35LY80**
Temp. Control, 6½ ft Sensor Lead, 6 ft Plug	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABG-02C	**35LY81**
Cycle Timer, 6½ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421ABT-02C	**35LY79**
Temp. Control, 9¾ in Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421AEC-01C	**35LY83**
Temp. Control, 6½ ft Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421AEC-02C	**35LY84**
Defrost Control, 9¾ in Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421AED-01C	**35LY86**
Cycle Timer, 9¾ in Sensor Lead	SPDT	120/240V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421AET-01C	**35LY85**
Temp. Control, 6½ ft Sensor Lead	SPDT	24V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 1	A421GBF-02C	**35LY82**
Temp. Control, 9¾ in Sensor Lead	SPDT	24V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421GEF-01C	**35LY88**
Temp. Control, 6½ ft Sensor Lead	SPDT	24V AC	-40° to 212°F	1	1	16 A	8 A	NEMA 4X	A421GEF-02C	**35LY89**
Johnson Controls - System 350™										
Temp. Control	SPDT	20/30V AC	-30° to 212°F	1	1	9.8 A	4.9 A	NEMA 1	A350AA-1C	**36P544**
Temp. Control	SPDT	20/30V AC	90° to 250°F	1	1	9.8 A	4.9 A	NEMA 1	A350AA-2C	**36P545**
Temp. Control	SPDT	24/277VAC	-35 to 55 F°	0	0	15 A	4.9 A	NEMA 1	A350BA-1C	**20XJ47**
Temp. Control	—	20/30V AC	-30° to 130° F	1	1	—	—	NEMA 1	A350PS-1C	**36P546**
Temp. Control	—	20/30V AC	90° to 250°F	1	1	—	—	NEMA 1	A350PS-2C	**36P547**
Temp. Control	SPDT	20/30V AC	-30° to 212°F	1	1	—	—	NEMA 1	A350RS-1C	**36P548**
Temp. Display Module	—	—	—	—	—	—	—	NEMA 1	D350AA-1C	**36P576**
Humidity Display Module	—	24VAC	—	—	—	—	—	NEMA 1	D351AA-1C	**36P577**
Temp. Stage Module	—	—	—	—	—	—	—	—	S350AA-1C	**36P592**
Temp. Stage Module	SPDT	24/240VAC	-34 to 66 F°	0	0	15A	4.9A	NEMA 1	S350AB-1C	**20XJ71**
Pressure Stage Module	SPDT	24/240VAC	—	0	1	9.8A	4.9A	NEMA 1	S352AA-2C	**20XJ75**
Humidity Control	SPDT	120/240VAC	—	1	1	9.8A	4.9A	NEMA 1	W351AB-2C	**20XJ85**
Power Module	—	120/240VAC	—	—	—	15A	—	NEMA 1	Y350R-1C	**36P687**
Johnson Controls - System 450™										
Control Module	—	24/240VAC	-50° to 360°F	3	0	—	—	NEMA 1	C450CEN-1C	**30KA32**
Refrigeration Control	SPDT	20/30 VAC	-40 to 150 F°	0	0	9.8A	4.9A	NEMA 1	C450RBN-3C	**20XJ51**
Control Module	SPDT	0/5VAC	-40° to 250°F	3	2	9.8A	4.9A	NEMA 1	C450RCN-3C	**12Y966**
Refrigeration Control	—	—	-40 to 150 F°	—	0	—	—	NEMA 1	C450SPN-1C	**20XJ52**
Refrigeration Control	—	—	-40 to 150 F°	—	0	—	—	NEMA 1	C450SQN-1C	**20XJ53**
Power Module	—	120/240 VAC	—	—	—	15A	—	NEMA 1	C450YNN-1C	**12Y967**
Johnson Controls Accessories										
Humidity Sensor, Duct, For Use with System 350™ & System 450™									HE-69S30NP-0	**12Y970**
Temp. Sensor, Shielded PVC Cable, 78 in"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BA-200C	**36P556**
Temp. Sensor, PVC Cable, 9 ¾ in"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-25C	**36P557**
Temp. Sensor, PVC Cable, 78"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-200C	**12Y968**
Temp. Sensor, PVC Cable, 108 in"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-300C	**36P558**
Temp. Sensor, PVC Cable, 228 in"L, -40 to 212°F, For Use with System 350™, System 450™, A419									A99BB-600C	**36P559**
Temp. Sensor, High Temp. Silicon Cable, 9 ¾ in"L, -40 to 248°F, For Use with System 350™, System 450™, A419									A99BC-25C	**36P560**
Temp. Sensor, High Temp. Silicon Cable, 108 in"L, -40 to 248°F, For Use With System 350™, System 450™									A99BC-300C	**36P561**
Wall Temp. Sensor, For Use with System 450™									TE-68NT-0N00S	**36P667**
Temp. Stage Module									S350CC-1C	**20XJ72**
Temp. Sensor, For Use With System 350™, System 450™									A99BB-500C	**20RG57**
Honeywell										
Temp. Control	2 SPDT	24/240V AC	-40° to 248°F	2	2	9.8 A	4.9 A	NEMA 1	T775M2048	**278Y45**
Temp. Control	2 SPDT	24/240V AC	-40° to 248°F	2	2	9.8 A	4.9 A	NEMA 1	T775U2006	**278Y47**
Temp. Control	4 SPDT	24/240V AC	-40° to 248°F	2	4	9.8 A	4.9 A	NEMA 4X	T775B2024	**2GZN7**
Temp. Control	2 SPDT	24/240V AC	-40° to 248°F	2	2	9.8 A	4.9 A	NEMA 1	T775B2032	**278Y44**
Temp. Control	4 SPDT	24/240V AC	-40° to 248°F	2	4	9.8 A	4.9 A	NEMA 1	T775B2040	**278Y46**
Temp. Control	SPDT	24/240V AC	-40° to 248°F	1	1	9.8 A	4.9 A	NEMA 1	T775A2009	**2GZN9**
Temp. Control, Boiler Reset	4 SPDT	24/240V AC	-40° to 248°F	3	4	9.8 A	4.9 A	NEMA 1	T775P2003	**2GZP2**
Honeywell Accessories										
Remote Sensor, Outdoor, For Use With T775 Series 2									T775-SENS-OAT	**279A42**
Remote Sensor, Standard, For Use With T775 Series 2									50021579-001	**279A37**
Remote Sensor, Strap-on, For Use With T775 Series 2									T775-SENS-STRAP	**279A44**
Remote Sensor, Water Resistant, For Use With T775 Series 2									T775-SENS-WR	**279A38**
Remote Sensor, Water-Tight, For Use With T775 Series 2									T775-SENS-WT	**279A39**
Emerson										
Temp. Control	SPDT	24/240V AC	-40° to 220°F	1	1	16 A	8 A	NEMA 1	16E09-101	**44R204**
Ranco										
Temp. Control	SPDT	120/208/240V AC	-30° to 220°F	1	1	5.8A (NC), 16A (NO)	2.9A (NC), 8A (NO)	NEMA 1	ETC-111000-000	**3ZP77** *
Temp. Control	SPDT	120/208/240V AC	-30° to 220°F	1	1	5.8A (NC), 16A (NO)	2.9A (NC), 8A (NO)	NEMA 1	ETC-111100-000	**3ZP78**
Temp. Control	SPDT	24V AC	-30° to 220°F	1	1	5.8A (NC), 16A (NO)	2.9A (NC), 8A (NO)	NEMA 1	ETC-112000-000	**3ZP79** *
Temp. Control	SPDT	24V AC	-30° to 220°F	1	1	5.8A (NC), 16A (NO)	2.9A (NC), 8A (NO)	NEMA 1	ETC-112100-000	**3ZP80**
Temp. Control	SPDT	120/208/240V AC	-30° to 220°F	1	1	5.8A (NC), 16A (NO)	2.9A (NC), 8A (NO)	NEMA 4X	ETC-141000-000	**3ZP81** *
Temp. Control	2 SPDT	120/208/240V AC	-30° to 220°F	1	2	5.8A (NC), 9.8A (NO)	2.9A (NC), 4.9A (NO)	NEMA 1	ETC-211000-000	**3ZP82** *
Temp. Control	2 SPDT	120/208/240V AC	-30° to 220°F	1	2	5.8A (NC), 9.8A (NO)	2.9A (NC), 4.9A (NO)	NEMA 1	ETC-211100-000	**3ZP83**
Temp. Control	2 SPDT	24V AC	-30° to 220°F	1	2	5.8A (NC), 9.8A (NO)	2.9A (NC), 4.9A (NO)	NEMA 1	ETC-212000-000	**3ZP84** *
Temp. Control	2 SPDT	24V AC	-30° to 220°F	1	2	5.8A (NC), 9.8A (NO)	2.9A (NC), 4.9A (NO)	NEMA 1	ETC-212100-000	**3ZP85**
Temp. Control	2 SPDT	120/208/240V AC	-30° to 220°F	1	2	5.8A (NC), 9.8A (NO)	2.9A (NC), 4.9A (NO)	NEMA 4X	ETC-241000-000	**3ZP86** *
Ranco Accessories										
Temp. Sensor, -30°F to 220°F, For Use With Ranco ETC Series Controls									1309007-044	**44C531**
RAYCHEM										
Thermostat, Electronic, Ambient, Pipe, or Slab-Sensing									EC-TS	**45RK49**

** Item does not have 0 to 10V signal output.*

Building Automation Controllers and Sensors

KMC CONTROLS SIEMENS Johnson Controls Honeywell

Siemens
48RH63

KMC
6HXT6

Johnson Controls
36P581

Johnson Controls
444M80

KMC FLEXSTAT BACNET CONTROLLERS

- 64 x 128 dot matrix LCD
- 24VAC
- Wire clamp 14-22 AWG connection
- Wall mount

Built-in program library can be customized with site-specific and application-specific requirements. Connect to any system using the ASHRAE BACnet communication protocol. UL Listed.

KMC TEMPERATURE SENSORS

Type 2 and type 3 10k ohm resistors.

SIEMENS

Installed sensors provide accurate environmental measurements to Siemens and other HVAC control systems.

JOHNSON CONTROLS

Temperature sensors provide economical solutions for a wide variety of temperature sensing needs. The Humidity All-Polymer sensor construction provides improved resistance to chemical corrosion. Innovative TrueRH circuitry and calibration process for True±2 or 3% humidity sensing accuracy and reliability. Carbon dioxide sensors include an innovative CARBOCAP sensor, with its single-beam, dual-wavelength design, for superior performance compared to other technologies.

HONEYWELL PNEUMATIC THERMOSTAT

This direct-wired pneumatic thermostat has a temperature sensor and a user-selectable temperature setpoint in Fahrenheit, Celsius, and Relative (+ to -).

Type	Mfr. Model	Item No.
KMC FlexStat™ BACnet Controllers		
6 Relay And 3 Universal Outputs	BAC-120063CW	6HXR4
6 Relay And 3 Universal Outputs With Humidity	BAC-120163CW	6HXR5
6 Relay And 3 Universal Outputs With Occupancy Sensor	BAC-121063CW	6HXR6
6 Relay And 3 Universal Outputs With Humidity and Occupancy Sensor	BAC-121163CW	6HXR7
3 Relay And 6 Universal Outputs	BAC-120036CW	6HXR8
3 Relay And 6 Universal Outputs With Humidity	BAC-120136CW	6HXR9
3 Relay And 6 Universal Outputs With Occupancy Sensor	BAC-121036CW	6HXT0
3 Relay And 6 Universal Outputs With Humidity And Occupancy Sensor	BAC-121136CW	6HXT1
KMC Temperature Sensors		
4 in Duct Rigid	STE-1405	6HXT8
8 in Duct Rigid	STE-1402	6HXT6
12 in Duct Rigid	STE-1404	6HXT7
6 ft Duct Averaging	STE-1415	6HXT9
12 ft Duct Averaging	STE-1416	6HXU0
Room, Flat Plate	STE-1430	6HXU1
Outside Air	STE-1451	6HXU2
Wall	STE-6011-10	6HXU3

Description	Mfr. Model	Item No.
Siemens Room Temperature Sensors, For Use With BACnet System		
Inputs: RJ11, Outputs: 1k ohm Pt 385a RTD	QAA2212.EWSN	48RH63
Inputs: 18 to 36V DC or 24 V AC, Outputs: Digitally Communicating (TEC Only)	QAA2280.FWSC	48RH76
Inputs: 18 to 36V DC or 24 V AC, Outputs: Digitally Communicating (TEC Only)	QAA2280.EWSC	48RH75
Siemens Room Temperature Sensors, For Use With BACnet System		
Inputs: 18 to 36V DC or 24 V AC, Outputs: Digitally Communicating (TEC Only), Display: OLED	QAA2280.DWSC	48RH74
Siemens Room Humidity/Temperature Sensor, For Use With BACnet System		
Inputs: 18 to 36V DC or 24 V AC, Outputs: Digitally Communicating (TEC Only)	QFA3280.FWSC	48RH85
Inputs: RJ11, Outputs: 0 to 10V/0 to 5V/4 to 20mA, Display: OLED	QFA32SS.FWSN	48RH87
Inputs: RJ11, Outputs: 0 to 10V/0 to 5V/4 to 20mA	QFA32SS.EWSN	48RH86
Siemens Air Quality (CO^2) Sensors		
Wall-Mount, 0-10V Output	QPA2000	5WYE8
Duct-Mount, 0-10V Output	QPM2100	5WYE9

Description	Mfr. Model	Item No.
Johnson Controls Temperature Sensors		
Duct Plate, For Use with TE-6000 and A99	TE-6001-1	36P612
Duct Temp. Element Holder, For Use with TE-6000 Series Elements	TE-6001-11	20XG80
Nickel 1k ohm, 2 ½ in L	TE-6000-100	36P611
Nickel 1k ohm, 36 in L	TE-6000-1	36P610
Nickel 1k ohm, 36 in L	TE-6300-603	36P617
Nickel 1k ohm, Adjustable, Metal, For Use with Any BAS/DDC System	TE-6315M-1	36P628
Nickel 1k ohm, Adjustable, Metal, For Use with Any BAS/DDC System	TE-6316M-1	36P630
Nickel 1k ohm, Adjustable, Plastic, For Use with Any BAS/DDC System	TE-6315P-1	36P629
Nickel 1k ohm, Adjustable, Plastic, For Use with Any BAS/DDC System	TE-6316P-1	36P631
Nickel 1k ohm, Duct 18 in Metal, For Use with Any BAS/DDC System	TE-631JM-1	36P637
Nickel 1k ohm, Duct 4 in, For Use with Any BAS/DDC System	TE-631GM-1	36P635
Nickel 1k ohm, Duct Metal 8 in, For Use with Any BAS/DDC System	TE-6311M-1	36P621
Nickel 1k ohm, Duct Plastic 8 in, For Use with Any BAS/DDC System	TE-6311P-1	36P622
Nickel 1k ohm, Flange 4 in Metal, For Use with Any BAS/DDC System	TE-631GV-2	36P636
Nickel 1k ohm, Flange 8 in, For Use with Any BAS/DDC System	TE-6311V-2	36P623
Nickel 1k ohm, Flush Mount, For Use with Any BAS/DDC System	TE-6310F-1	36P620
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6000-11	20XG79
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6300-601	20XG87
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-6311A-1	20XG88
Nickel 1k ohm, For Use with Any BAS/DDC System	TE-631AP-1	36P634
Nickel 1k ohm, For Use with TE-67xx Sensor	TE-67NP-3B00	20XH01
Nickel 1k ohm, Outdoor Air 3 in, For Use with Any BAS/DDC System	TE-6313P-1	36P626
Nickel 1k ohm, Strap Mount 3 in, For Use with Any BAS/DDC System	TE-631S-1	36P638
Nickel 1k ohm, Wall, For Use with Any BAS/DDC System	TE-6314P-1	36P627
Nickel 1k ohm, Well, 6 in, For Use with Any BAS/DDC System	TE-631AM-1	36P632
Nickel 1k ohm, Well, 6 in, For Use with Any BAS/DDC System	TE-631AM-2	36P633
Nickel 1k ohm, Well, Metal, 8 in, For Use with Any BAS/DDC System	TE-6312M-1	36P624
Nickel 1k ohm, Well, Plastic, 8 in, For Use with Any BAS/DDC System	TE-6312P-1	36P625
Nickel 1k ohm with Phone Jack, For Use with Any BAS/DDC System	TE-67NP-0N00	36P652
Nickel 1k ohm with Phone Jack, For Use with Any BAS/DDC System	TE-68NP-0N00S	36P665
Nickel 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-67NT-0N00	36P657
Nickel 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-68NT-1N00S	36P668
Outside Air Housing, For Use with TE-6000 and A99	TE-6001-2	36P613
Platinum 1k ohm, Duct Plastic 8 in, For Use with Any BAS/DDC System	TE-6351P-1	36P640
Platinum 1k ohm, Flange 8 in, For Use with Any BAS/DDC System	TE-6351V-2	36P641
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-6351M-1	20XG91
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-6359-1	20XG92
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635AM-2	20XG93
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635AP-1	20XG94
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635GM-1	20XG95
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635JM-1	20XG96
Platinum 1k ohm, For Use with Any BAS/DDC System	TE-635S-1	20XG97
Platinum 1k ohm, For Use with TE-67xx Sensor	TE-67PP-0N00	20XH03
Platinum 1k ohm, Wall, For Use with Any BAS/DDC System	TE-6324P-1	36P639
Platinum 1k ohm with Terminal Block, For Use with Any BAS/DDC System	TE-67PT-0N00	36P663
Platinum Equivalent 1k ohm, For Use with Any BAS/DDC System	TE-6327P-1	20XG89
Platinum Equivalent 1k ohm, For Use with Any BAS/DDC System	TE-6328P-1	20XG90
Thermistor 10k ohm Type 2, Duct 4 in Metal, For Use with Any BAS/DDC System	TE-636GM-1	36P646
Thermistor 10k ohm Type 2, Duct 8 in Metal, For Use with Any BAS/DDC System	TE-6361M-1	36P642
Thermistor 10k ohm Type 2, Duct 8 in Plastic, For Use with Any BAS/DDC System	TE-6361P-1	36P643
Thermistor 10k ohm Type 2, Duct Probe, For Use with Any BAS/DDC System	TE-636GV-2	20XG99
Thermistor 10k ohm Type 2, Flange 8 in, For Use with Any BAS/DDC System	TE-6361V-2	36P644
Thermistor 10k ohm Type 2, Outdoor Air, For Use with Any BAS/DDC System	TE-6360F-1	20XG98
Thermistor 10k ohm Type 2, Outdoor Air, For Use with Any BAS/DDC System	TE-6363P-1	36P645
Thermistor 10k ohm Type 2, Strap 3 in, For Use with Any BAS/DDC System	TE-636S-1	36P647
Wall Plate, Gray, For Use with TE-6000 and A99	TE-6001-4	36P615
Wall Plate, White, For Use with TE-6000 and A99	TE-1800-9600	36P609
Wall Temp. Sensor, For Use with System 450™	TE-68NT-0N00S	36P667
Well Mounting Kit, For Use with TE-6000 and A99	TE-6001-3	36P614
Johnson Controls Humidity Sensors		
2%, Duct, For Use with Any BAS/DDC System	HE-67P2-0N00P	20XJ61
2%, Duct, For Use with Any BAS/DDC System	HE-69120NP	36P581
2%, For Use with Any BAS/DDC System	HE-67N2-0N00W	20XJ58
2%, Wall, For Use with System 450™	HE-68N2-0N00WS	36P585
2%, Wall, Warmer/Cooler Adjustment, For Use with Any BAS/DDC System	HE-68N2-1N00WS	36P586
3%, Wall, For Use with Any BAS/DDC System	HE-68P3-0N00WS	20XJ62
3%, Wall, For Use with System 450™	HE-68N3-0N00WS	36P587
3%, Wall, Warmer/Cooler Adjustment, For Use with Any BAS/DDC System	HE-68N3-1N00WS	36P588
Johnson Controls Temperature/Humidity Sensors		
Outdoor, 2-Wire, For Use with Any BAS/DDC System	HT-68P3-0N000	35LY70
Outdoor, 3-Wire, For Use with Any BAS/DDC System	HE-68P3-0N000	35LY71
Johnson Controls Thermostat Controllers		
Low Voltage Thermostat	TEC3630-14-000	55LT84
Low Voltage Thermostat	TEC3631-14-000	55LT88
Johnson Controls End Of Line Terminator		
For Use with BACnet System	MS-BACEOL-0	36P590
Johnson Controls CO2 Transmitter		
3 5/32 in H x 1 13/16 in W, For Use with Mfr. No. Y65T31-0	CD-P1000-00-00	444M80
Johnson Controls CO2 and Temperature Transmitters		
Platinum 1k ohm, Wall, For Use with BAS System	CD-W00-00-2	46AE84

Description	Mfr. Model	Item No.
Honeywell Pneumatic Thermostat		
Deadband: 55° to 85°F, Overall Size: 4 ¾ in Height x 3 in Width x 1 in Depth	TR23	278Z33

Duct Smoke or Carbon Monoxide Detectors

AIR PRODUCTS AND CONTROLS You're in Control

- Detectors are 24VDC, 24VAC, 120VAC & 230VAC

Smoke Detectors—Suitable for high temperature applications and feature an internal dust filtering system that requires no additional screens or filters to clean. Models are universal voltage and you can interconnect up to 30 units. 45JU29 has an innovative, toolless design that allows for quick installation and eases the loading and unloading of sampling/exhaust tubes. 45JU40 is designed for no- or low-flow special applications and plenum spaces. 45JU42 is weathertight, corrosion resistant, and has a NEMA 4X rating.

Carbon Monoxide Detector—Unit can initiate an air handling unit shutdown when the CO concentration reaches a level considered hazardous by NFPA and OSHA standards.

Accessories—45JU30 features lightweight, sectional tubes that you can connect together for the required length. 45JU57 and 45JU35 feature a multicolor LED to indicate Alarm, Pilot, and Trouble status. 45JU57 is mounted in a white, single-gang cover plate. 45JU35 is mounted in a white, double-gang plate with a sounder strobe assembly with a clear lens.

45JU29

45JU42

45JU38

Description	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Smoke Detectors					
Photoelectric, Universal	32 to 140°	100 to 4000	All APC Remote Operation Accessories	SL-2000-P	**45JU29**
Photoelectric, Universal	32 to 140°	500 to 4000		SM-501-P	**45JU44**
Photoelectric, Plenum	32 to 140°	0 to 3000		HS-100-P	**45JU40**
Photoelectric, Weathertight	-4 to 140°	100 to 4000		RT-3000-P	**45JU42**
Carbon Monoxide Detector					
Kit, Includes (3) 18 in Fast Tube, (4) Screws, 8 in Fast Exhaust Tube, Mounting Template, MSR-50/CO Remote Accessory, Notched Fast Tube Starter Piece, SL-701 Duct CO Detector	32 to 158°	100 to 4000		SL-701 KIT	**45JU38**

Description	Duct Width (ft.)	For Use With	Mfr. Model	Item No.
Accessories				
Smoke Detector Head Replacement, Photoelectric	—	All APC Duct Smoke Detectors	55000-328APO	**45JU32**
Smoke Detector Tester, Aerosol	—	SM Series or open area Smoke Detectors	TG-1500	**45JU52**
Smoke Detector Tester, Aerosol with Nozzle	—	SL and RT Series Smoke Detectors	TG-2500	**45JU53**
Carbon Dioxide Detector Tester, Aerosol	—	SL-701 Series or open area CO Detectors	TG-701	**45JU54**
Sectional Sampling Tube, Pk. 3	1 to 8	All APC Duct Smoke Detectors	FAST TUBE	**45JU30**

Description	Duct Width (ft.)	For Use With	Mfr. Model	Item No.
Accessories (Cont.)				
Sampling Tube with Notch	0.5 to 1	SL and RT Series Smoke Detectors	STN-1.0	**45JU45**
	1 to 3		STN-2.5	**45JU46**
	3 to 5		STN-5.0	**45JU47**
	5 to 10		STN-10.0	**45JU31**
Sampling Tube	0.5 to 1	SM Series Smoke Detectors	STS-1.0	**45JU48**
	1 to 3		STS-2.5	**45JU50**
	3 to 5		STS-5.0	**45JU51**
	5 to 10		STS-10.0	**45JU49**
	—		WP-1	**45JU55**
Weatherproof Enclosure	—	SL Series Smoke Detectors	WP-2000	**45JU56**
Remote Horn with Pilot & Alarm LED	—	All APC Duct Smoke Detectors	MS-RH/P/A	**45JU37**
Remote Key Test Station with Pilot & Alarm LED	—		MS-KA/P/R	**45JU58**
Remote Horn, Key Test Station with Pilot, Alarm & Trouble LED	—		MS-RH/ KA/P/A/T	**45JU34**
Remote Horn, Key Test Station with Pilot & Alarm LED	—		MS-RH/KA/P/R	**45JU36**
Remote Key Test Station with LED Indicating Alarm, Pilot and Trouble	—		MSR-50RK/W	**45JU57**
Remote Key Test Station with LED Indicating Alarm, Pilot and Trouble Sounder Strobe	—		MSR-50RKAV/W/C	**45JU35**

Duct Smoke Detectors

SYSTEM SENSOR

- Detectors are 24VDC and 120VAC, except 2GWK9 and 5CGZ1 are also 24VAC

Feature 4-wire photoelectric integrated low air flow technology and versatile square or rectangular mounting. 415F91 has an integrated smoke test port and the sampling tube is durable corrosion-resistant steel. Innovative tube allows easy, toolless installation from the front or back of the detector.

2GWK9

5CGZ1

Item	Duct Width (ft.)	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Photoelectric Duct Smoke Detectors						
Universal	—	-4° to 158°	100 to 4000	—	D4120	**2GWK9**
Smoke Detector	—	-4° to 158°	100 to 4000	All System Sensor Remote Test Accessories, Fire Alarm Panel	DUCTSD	**415F91**
Photoelectric, Watertight	—	-4° to 158°	100 to 4000	—	5CGZ1	**5CGZ1**
Accessories						
Multi Signaling Unit	—	14 to 140	—	D4120W, Mfr. No. D4120	RTS2-AOS	**5CGZ2**
Multi Signaling Unit	—	14 to 140	—	D4120W, D4P120, D4S, Mfr. No. D4120	RTS2	**35Z779**
Photoelectric Power Board	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4P120	**35Z776**
Photoelectric Sensor	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4S	**35Z775**
Sampling Tube	Up to 1ft	—	—	D4120W, D4S, Mfr. No. D4120	DST1	**35Z777**
Sampling Tube	1 a 2	—	—	D4120W, D4S, Mfr. No. D4120	DST1.5	**2GWL2**
Sampling Tube	2 a 4	—	—	D4120W, D4S, Mfr. No. D4120	DST3	**2GWL3**
Sampling Tube	4 to 8	—	—	D4120W, D4S, Mfr. No. D4120	DST5	**2GWL4**
Sampling Tube	8 to 12	—	—	D4120W, D4S, Mfr. No. D4120	DST10	**35Z778**
Strobe Light	—	14 to 140	—	Mfr. No. RTS2	AOS	**35Z780**

Duct Smoke Detectors

Edwards Signaling

Systems continuously sample air flow within the HVAC duct and alert of combustion activity within the duct to help prevent smoke from circulating throughout the duct system.

FOR 4-WIRE SMOKE DETECTOR SYSTEMS

Base Controller and Sensor with RJ45 Connections 1EYB5—Duct smoke detector comes with a Detector Assembly and a Controller in separate housings to ease access to either the detector or controller without disturbing the other device. Detector Assembly has a standard RJ45 modular interconnection and a standard sampling tube with mounting holes. Controller can be interconnected to up to 15 controllers and a single controller can accommodate up to 2 detector assemblies. They also have standard connections to ease coupling to other compatible detectors.

Base Controller 16X427 and Sensor 16X434—Allow connectivity via an RJ45 connection for a complete duct smoke detector system.

Base Controller 16X428 and Sensor 16X435—Models allow connectivity via a wire terminal for a complete duct smoke detector system.

FOR 2-WIRE SMOKE DETECTOR SYSTEMS

Base System with Integrated Sensor 16X425—Unit includes a Smoke Sensor with differential sensing for reliable and stable sensitivity. Detector Assembly has a sampling tube that can be installed with or without the cover in place and can be rotated in 45° increments.

16X427

16X425

Description	Ambient Temp. Limits (°F)	Air Vel. (fpm)	Mfr. Model	Item No.
For 4-Wire Smoke Detector Systems				
Base Controller and Sensor with RJ45 Connections	-20 to 158	100 to 4000	SD-4WJ	**1EYB5**
Base Controller with RJ45 Connection	-4° to 158°	—	SD-CJ	**16X427**
Sensor with RJ45 Connection	-4° to 158°	100 to 4000	SD-SJ	**16X434**
Base Controller with Wire Terminal Connection	-4° to 158°	—	SD-CT	**16X428**
Sensor with Wire Terminal Connection	-4° to 158°	100 to 4000	SD-ST	**16X435**
For 2-Wire Smoke Detector Systems				
Base System with Integrated Sensor	-4° to 158°	100 to 4000	SD-2W	**16X425**

Description	L (in.)	For Use With	Mfr. Model	Item No.
Accessories				
Keyed Remote Test Station for 4-Wire System	2 in	Mfr. No. SD-4WJ	SD-TRK4	**1EYC1**
Magnetic Remote Test Station for 4-Wire System	2 ¾ in	SD-4WJ	SD-TRM4	**16X442**
Keyed Remote Test Station for 2-Wire System	2 ¾ in	SD-2W	SD-TRK	**16X440**
Magnetic Remote Test Station for 2-Wire System	2 ¾ in	SD-2W	SD-TRM	**16X441**
Magnet Trigger required for Magnetic Remote Test Stations	—	SD-2W, SD-4WJ, SD-SJ, SD-ST	SD-MAG	**16X430**
4-Wire RJ45 Wiring Harness	5 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ5	**16X433**
	10 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ10	**16X431**
	15 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ15	**16X432**

278X90

2E821

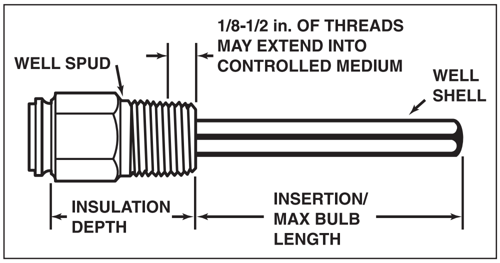
Hydronic Controls

For use in gas- or oil-fired hydronic heating systems that require a 24VAC thermostat. Select models are compatible with 750mV thermostats.

High or Low Limit/SPST—Break the circuit on temp. rise. When used as a controller or a low limit, a separate high limit must be used.

Type	Temp. Range	Differential	Mounting	System Switching	Brand	Mfr. Model	Item No.
Immersion Controllers							
Boiler-Mounted, High Limit, Manual Reset	100° to 200°F	Manual Reset	Horizontal or Vertical	SPST	Honeywell Home	L4006E1125	**2GZN4** *
	100° to 240°F		Horizontal or Vertical	SPST	Honeywell Home	L4006E1117	**2GZN3**
	130° to 270°F		Horizontal or Vertical	SPST	Honeywell	L4006E1067	**278X88** *
			Horizontal or Vertical	SPST	Honeywell Home	L4006E1091	**2GZN1** *
			Horizontal or Vertical	SPST	Honeywell Home	L4006E1109	**2GZN2**
Boiler-Mounted, High or Low Limit	40° to 180°F	5°F Fixed	Horizontal or Vertical	SPST	Honeywell Home	L4006A1959	**2GZL3** #
	100° to 240°F		Horizontal or Vertical	SPST	Honeywell	L4006A1009	**278X90** *#
			Horizontal or Vertical	SPST	Honeywell	L4006A1132	**278X95** *#
		5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell Home	L4006A1017	**2GZK9** *
			Horizontal or Vertical	SPST	Honeywell	L4006A1967	**278X93** *#
			Horizontal or Vertical	SPST	Honeywell	L4006A1678	**278X98** *#
			Horizontal or Vertical	SPST	Honeywell Home	L4006A2007	**2GZL5** *
Boiler-Mounted, High or Low Limit, and Circulator Delay		5°F Fixed	Horizontal or Vertical	SPST	Honeywell	L4006B1007	**278X94** *#
		5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell Home	L4006B1155	**2GZL7** *#
			Horizontal or Vertical	SPST	Honeywell	L4006B1163	**278Y07** *#
Immersion Well Mounting (Not Included), High Limit, Low Limit or Circulator Control			Horizontal	SPDT	Honeywell Home	L6006A1145	**2E821** *
			Horizontal or Vertical	SPDT	Honeywell Home	L6006A1244	**2GZK3** *
Strap-On or Well Mount, High Limit, Manual Reset		Manual Reset	Horizontal or Vertical	SPST	Honeywell	L4006H1004	**278X99** *
Immersion Controller, Universal Electronic							
Aquastat(R) Relay, Universally Compatible, EnviraCOM-Enabled	130° to 240°F	5° to 20°F	Vertical	—	Honeywell Home	L7224U1002	**1RZY3**
Immersion Controller, Multizone							
High Limit and Relay Control of Burner and Circulation Control	High Limit 120° to 240°F	8°F Fixed	Horizontal or Vertical	SPST	Honeywell Home	L8148J1009	**2E861**
Triple Aquastat Relay with High Limit	High Limit 130° to 240°F, Low Limit 110° to 220°F	High Limit 10°F Fixed, Low Limit 10° to 25°F Adj.	Vertical	SPST	Honeywell Home	L8124E1016	**2GZJ7**
			Vertical	SPST	Honeywell Home	L8124G1020	**2GZJ8**
			Horizontal	SPST	Honeywell Home	L8124L1011	**2GZJ9**
			Horizontal	SPST	Honeywell	L8124C1003	**278X97**
Aquastat Controller							
Remote bulb Temperature Control	100° to 240°F	5° to 30°F Adj.	Horizontal or Vertical	SPST	Honeywell Home	L4008A1015	**5TB81** †
Dual Aquastat Controllers							
High Limit and Circulator	High Limit 130° to 240°F, Low Limit 110° to 220°F	10°F Fixed	Horizontal	SPST	Honeywell	L4081B1096	**278X96** *
		High Limit 10°F Fixed, Low Limit 10° to 25°F Adj.	Horizontal	SPST	Honeywell Home	L4081B1047	**2GZK6** *

***** 750 mV compatible. † Requires immersion well or bulb compression fitting for new installations. # When used as a controller or a low limit, a separate high limit must be used.*



HVAC Thermowells

Accessory for hot water immersion controls.

NPT	Bulb Dia.	Max. Insertion/ Bulb Length	Insulation Depth	Material	Brand	Mfr. Model	Item No.
¾ in	⅜ in	3 in	1 ½ in	Copper	Honeywell Home	121371B	**3XK90**
½ in	⅜ in	3 in	3 in	Copper	Honeywell Home	121371L	**3XK91**
¾ in	⅜ in	3 in	3 in	Copper	Honeywell Home	121371M	**3XK92**
½ in	⅜ in	2 ⅜ in	2 5⁄16 in	Brass Fitting, Copper Tube	Johnson Controls	TE-6300W-101	**36P618**
½ in	½ in	2 ⅜ in	2 ⅛ in	Stainless Steel	Johnson Controls	TE-6300W-102	**36P619**
½ in	19⁄64 in	2 ⅜ in	2 5⁄16 in	Brass Fitting, Copper Tube	Johnson Controls	WEL11A-601R	**38Y209**
½ in	7⁄16 in	6 ¾ in	4 15⁄16 in	Brass Fitting, Copper Tube	Johnson Controls	WEL14A-602R	**38Y210**
½ in	7⁄16 in	7 ⅝ in	5 13⁄16 in	Brass Fitting, Copper Tube	Johnson Controls	WEL14A-603R	**38Y211**
½ in	19⁄64 in	2 ⅜ in	—	Brass	Johnson Controls	WZ-1000-5	**20XJ26**

2E859

38Y073

Boiler Controls

Indoor Strap-On—Provide control without tapping boiler or draining system. Mounting strap provides any-position mounting without leveling on a 2"- to 6"-dia. pipe.

Beckett—Features include backlit display touch pad for programming temperature limits and differentials, memory storage, and diagnostics for troubleshooting.

Description	Switch Type	Switch Action	Brand	Mfr. Model	Item No.
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 65 to 200°F, Diff. 5 to 30 Adj.°F	SPDT	Open/Close on Temp. Rise	Honeywell Home	L6006C1018	**2E859**
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 100 to 240°F, Diff. 10 °F	SPDT	Open/Close on Temp. Rise	White-Rodgers	1127-2	**2E145**
Indoor Strap-On, High-Limit, Low-Limit, Circulator, Temp. 100° to 240°F Diff. 7°F	SPDT	Open/Close on Rise	Johnson Controls	A19DAC-1C	**38Y073**
Surface Mount, Control Range 200° to 240°F, Diff. 3.5°F	SPDT	Open/Close on Rise	Johnson Controls	A19DAF-2C	**20XJ41**
AquaSmart™ Oil Control, DOE 2012 Compliant	—	—	Beckett	7610A0001GU	**36L587**
AquaSmart™ Gas Control, DOE 2012 Compliant	—	—	Beckett	7610B0001GU	**36L588**
Wireless Temperature Module, For Use with AquaSmart™ Oil & Gas Controls	—	—	Beckett	7600WTMGU	**36L589**

Single-Phase Line Voltage Monitors

Antishort cycle protection. Detect high/low voltage. 32MY19 adds surge protection.

5KPX9

Description	Voltage	Time Delay	N.O. Output (A)	Mfr. Model	Item No.
1-Ph., ASC Protection	95 to 270	Adj. 6 to 600 Sec.	5 A	ICM491	**3UW94**
1-Ph., Programmable	80 to 300	Adj. 0 to 720 Sec.	10 A	ICM492	**5KPX9**
1-Ph., Surge Arrestors	200 to 250	0 to 10 min	40 A	ICM493	**32MY19**
				ICM494	**32MY20** *

** Replacement board only for 32MY19.*

Plug-In 3-Phase Line Voltage Monitor

Protects 3-phase motors and equipment from voltage faults. LED indicates high/low/unbalanced voltage, phase loss/reversal, and power interruptions. 100-msec response time. 50/60 Hz.

6JYL2

Voltage	% Volts Unbalance	N.O. Output (A)	NC Output (A)	Mfr. Model	Item No.
190-480V AC	2-8 User Select	10 A	10 A	ICM408	**6JYL2**
190 to 600	2 to 20, Adj.	10 A	6 A	ICM455	**32MY21**

Head-Pressure Controls

ICM—Feature high-temp. bypass, heat pump override, and adjustable hard-start timing and motor cutout speed. Indicator lights for full or modulated motor voltage. 4MG74 and 5KPX8 require separate 24VAC source; 4MG75 and 4MG76 have built-in 24VAC transformer.

Johnson Controls— R410A compatible. Weather-resistant, durable motor speed controls for approved single-phase, PSC motors commonly used in many refrigeration and air conditioning condenser fan applications. 20XJ08 allows easy configuration of P266 Series controllers via a PC.

4MG75

Input Volts AC @ 60/50 Hz	Triac Output Amps	Hard Start Timing (sec.)	Brand	Mfr. Model	Item No.
120 to 480	0.1 to 10.0	0.1 to 5.0	ICM	ICM325HNC	**4MG74**
120 to 240	0.1 to 10.0	0.1 to 5.0		ICM326HNC	**4MG75**
120 to 600	10	.1 - 5		ICM333	**5KPX8**
208/240	8	2 sec	Johnson Controls	P266AAA-100C	**20XJ06**
	8	2 sec		P266ABA-100C	**40G351**
	8	2 sec		P266ACA-100C	**40G352**
460/575	4	2 sec		P266BCA-100C	**40G353**
	4	2 sec		P266BHA-100C	**40G354**
	4	2 sec		P266BHA-2K	**20XJ07**
480	0.1 to 10.0	0.1 to 5.0	ICM	ICM327HNC	**4MG76**
Accessories					
Pressure Transducer, 0 to 508 PSI			Johnson Controls	P266SNR-1C	**40G355**
Pressure Transducer, 0 to 754 PSI				P266SNR-2C	**40G356**
Software for P266 Condenser Fan Speed Control				P266PRM-1K	**20XJ08**

Bypass Timer

- Universal input voltage: 18-240VAC, 1A, 10A inrush

Bypasses a low-pressure switch or an oil-pressure switch on startup.

Time Delay	Mfr. Model	Item No.
10-1000 Seconds	ICM175	**3UW85**

3-Phase Line Voltage Monitors

- UL Recognized E60605

Can detect voltage imbalance, high/low voltage, phase loss, reversal, incorrect sequencing, and rapid short cycling. **3UW93** has programmable 25-fault memory storage. Independent high/low voltage settings.

3UW93

Display	Volts 50/60 Hz	% Volts Unbalance	Control Volts (AC)	N.O. Output (A)	NC Output (A)	Cross-Reference* Diversified Model	Motorsaver Model	SSAC Model	TimeMark Model	Wagner Model	Watsco Model	Mfr. Model	Item No.
LCD	190-630	2 to 25, Adj.	18 to 240	10 A	6 A	AC-2020, AC-301, AC-302	455	QLM/QLV	265	WPC-800	EAC-800	ICM450	**3UW93**
—				20 A	10 A						EAC-8000	ICM400	**3UW89**

** Physical dimensions vary by manufacturer.*

Universal Capacitors

¼" brass-plated dual male terminals for best reliability, conductivity and corrosion resistance. Includes jumper wires to combine individual values into desired MFD rating. 60/50 Hz.

2ELT2

Description	MFD (µ) Rating	Cap. Voltage	Dia.	Case Height	Mfr. Model	Item No.
Motor Run Capacitor	2.5-67.5	370/440V AC	2 ½ in	4 ½ in	Turbo 200	**2ELT2**
	5-97.5	370/440V AC	2 ½ in	5 ¾ in	Turbo 200X	**2ELT3**
	2.5-15	370/440V AC	1 ¾ in	2 5⁄16 in	Turbo 200 Mini	**2ELT4**
Motor Start Capacitor	23-302	330V AC	2 ½ in	6 in	Turbolytic 50	**2ELT5**

Surge Protectors/Arrestors

- 1-phase, 120-240V
- Meet UL standards

Protect air conditioners, generators, motors, and appliances from power surges and lightning. 32ZN47 has an LED showing that surge protection is present, and a second LED indicating that device has power and is properly grounded.

32MY23

Max. Surge Current Per Phase	L	W	D	Brand	Mfr. Model	Item No.
100 kA	5.0 in	2.78 in	2.16 in	ICM	ICM517	**32MY23**
60 kA	4.98 in	3.48 in	1.8 in	5-2-1 Compressor Saver	SPD60	**32ZN47**

Refrigeration and Air Conditioner Start Assist Kits

32ZN44 to 32ZN46 can reduce air conditioner compressor start-up time up to 50% and lower energy consumption. 4E239 to 4E241 are for residential and commercial air conditioning units, heat pumps, and room air conditioners. 4MG78 replaces 3-wire potential relay and capacitor. 4E238 is used with residential and commercial refrigerators and freezers. 20LP97 to 20LP99 allow OEM-style, 3-wire installation and are for single-phase air conditioner or refrigeration units and hard-starting compressors under low voltage conditions.

For Use With Compressors	HP	Voltage	Brand	Mfr. Model	Item No.
1-3 tons A/C Units	4 to 5	208 to 240	5-2-1 Compressor Saver	CSRU1	**32ZN44**
3.5-4-5 tons A/C Units	3.5 to 5	208 to 240		CSRU2	**32ZN45**
4-5 tons A/C Units	4 to 5	208 to 240		CSRU3	**32ZN46**
Compressors	1⁄12 to 5	90 to 240	ICM	ICM866U	**32MY24**
PSC & CSIR	½ to 10	90-277	Supco	SPP5	**4E239**
	½ to 10	90-277		SPP6	**4E240**
	1 to 10	170-277		SPP8E	**4MG78**
	1½ to 10	90-277		SPP7S	**4E241**
Reciprocating, Scroll, & Rotary	1 to 3	208-265		MPR5	**12H941**
	3½ to 5	208-265		MPR1	**12H940**
RSIR, CSIR, PSC, & CSR	1⁄12 to 1⁄5	115		RCO810	**13E401**
	¼ to ⅓	115		RCO410	**4E238**
Hard Start with Low Voltage Situations, Single Phase Air Conditioner or Refrigeration Unit	1 to 3	208 to 240		3W1	**20LP97**
	3½ to 4½	208 to 240		3W2	**20LP98**
	4 to 5	208 to 240		3W3	**20LP99**

4E238

36Z443

1TGE3

16X612

4CZ56

White-Rodgers
Honeywell Home
Honeywell Robertshaw

Gas Valves

Description	Mfr. Model	Item No.
Kits		
LP Adapter Kit, Converts NG to LP Gas, For Use with Nos. 2E401, 2E402, 2E854	F92-0737	**2E731**
LP Regulator Kit, For Use With Robertshaw 700 Series Gas Valves	1751-013	**26X372**
Millivolt Kit, For Use With Millivolt Wall Furnaces, In-The-Floor Furnaces, and Fireplaces, Includes (2) ½ x ⅜ in Reducer Bushings, Gas Valve Cross Reference Book, Mechanical Thermostat, Millivolt Gas Valve, Pilot Uni-Kit	710-296	**44C529**
Universal Kit, Includes Canvas Carry Bag, Cross Reference guides, Gas Valve, Universal Air Sensing Switch, Universal Flame Sensor, Universal Ignition Module, Universal Nitride Ignitor	UNI-KIT360	**44C530**

BtuH Cap.	Valve Type	Coil Volts	Gas Type	Inlet Size	Outlet Size	Brand	Mfr. Model	Item No.
2-Stage Intermittent or Hot Surface Ignition								
300,000 BtuH	Fast Opening	24 V	NG/LP	¾ in	¾ in	White-Rodgers	36H64-463	**1YRN8**
Direct Spark Ignition								
140,000 to 200,000	Std. Opening, 2-Stage	—	NG/LP	½ in	½ in	Honeywell Home	VR9205Q1507	**48KT47**
150,000 to 200,000	Slow Opening	24 V	NG/LP	½ in	½ in	Honeywell Home	VR8215T1502	**36WH79**
150,000 to 200,000	Std. Opening	—	NG/LP	½ in	½ in	Honeywell Home	VR8215S1503	**48KT51**
Direct Spark Ignition, Hot Surface Ignition/Direct Spark Ignition/ Intermittent and Proven Pilot, Intermittent Pilot, Proven Pilot								
300,000 BtuH	Slow Opening	24 V	NG/LP	¾ in	¾ in	White-Rodgers	36H33-412	**44R202**
Hot Surface Ignition								
140,000 BtuH	Fast Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36G22-254	**30PL23**
140,000 BtuH	Fast Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36J54-214	**30PL26**
140,000 BtuH	Slow Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36J24-214	**30PL25**
140,000 BtuH	Slow Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36J24-614	**30PL27**
140,000 BtuH	Slow Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36J55-214	**30PL28**
140,000 BtuH	Slow Opening	24 V	NG/LP	½ in	½ in	White-Rodgers	36J55-614	**30PL29**
Intermittent Pilot								
150,000 to 200,000	Slow Opening	24 V	NG/LP	½ in	½ in	Honeywell Home	SV9502H2522	**36WH81**
Low Profile and Capacity								
70,000 BtuH	Std. Opening	750 mV	NG/LP	½ in	½ in	Robertshaw	710-502	**6KXC7**
70,000 BtuH	Std. Opening	750 mV	NG/LP	½ in	½ in	Robertshaw	710-501	**6KXD6**
70,000 BtuH	Std. Opening	—	NG/LP	½ in	½ in	Robertshaw	710-205	**6KXC9**
Pilot Safety Valve								
142,000 BtuH	Gas Pilot Safety	30 mV	—	½ in	½ in	White-Rodgers	764-742	**2E374**
Standing Pilot								
50,000 to 400,000	Fast Opening	24 V	NG/LP	¾ in	¾ in	White-Rodgers	36C84-912	**48FX09**
50,000 to 400,000	Slow Opening	24 V	NG	¾ in	¾ in	White-Rodgers	36C94-906	**48FX10**
100,000 BtuH	Fast Opening	750 mV	NG	½ in	½ in	Robertshaw	700-502	**4E127** †
100,000 BtuH	Slow Opening	24 V	NG/LP	½ in	½ in	Robertshaw	700-434	**6KXD0**
150,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	Robertshaw	720-400	**4E287**
150,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	Robertshaw	720-402	**4E400**
150,000 BtuH	Fast Opening	24 V	NG/LP	¾ in	¾ in	Robertshaw	720-406	**4E288**
190,000 BtuH	Std. Opening	24 V	NG/LP	½ in	¾ in	Honeywell Home	VR8300A3518	**5E763**
200,000 BtuH	Fast Opening	750 mV	NG	¾ in	¾ in	Robertshaw	700-506	**4E128**
200,000 BtuH	Std. Opening	24 V	NG/LP	¾ in	¾ in	Honeywell Home	VR8300A4516	**5E765**
230,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	White-Rodgers	36C03-300	**1RC51**
230,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	White-Rodgers	36C03-333	**2E725**
230,000 BtuH	Fast Opening	750 mV	NG/LP	½ in	¾ in	White-Rodgers	36C03U-333	**2E854** *
240,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	Robertshaw	700-400	**4E123**
240,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	Robertshaw	700-402	**4E124**
250,000 BtuH	Std. Opening	24 V	NG	½ in	¾ in	Honeywell Home	V800A1476	**2E791**
250,000 BtuH	Std. Opening	750 mV	NG	½ in	¾ in	Honeywell	VS820A1047	**278Y61**
280,000 BtuH	Fast Opening	24 V	NG/LP	¾ in	¾ in	White-Rodgers	36C03-433	**2E402**
280,000 BtuH	Fast Opening	750 mV	NG/LP	¾ in	¾ in	White-Rodgers	36C03U-433	**2E401** *
300,000 BtuH	Fast Opening	24 V	NG/LP	¾ in	¾ in	Robertshaw	700-406	**4E125**
300,000 BtuH	Fast Opening	120 V	NG	¾ in	¾ in	Robertshaw	700-454	**4E126**
335,000 BtuH	Std. Opening	750 mV	NG/LP	¾ in	¾ in	Honeywell	VS820M1309	**278Y59**
Universal, Direct Spark Ignition, Hot Surface Ignition, Intermittent Pilot								
415,000 BtuH	Slow Opening	24 V	NG/LP	¾ in	¾ in	Honeywell Home	VR8345K4809	**36Z443**
415,000 BtuH	Std. Opening, 2-Stage	24 V	NG/LP	¾ in	¾ in	Honeywell Home	VR8345Q4563	**36Z444**
720,000 BtuH	Slow Opening	24 V	NG	1 in	1 in	Robertshaw	700-059	**1TGE3**
Universal, Intermittent Pilot, Hot Surface Ignition, Direct Spark Ignition								
150,000 BtuH	Std. Opening	24 V	NG/LP	½ in	½ in	Honeywell Home	VR8245M2530	**1RZY5**
150,000 BtuH	Std. Opening	24 V	NG/LP	½ in	¾ in	Robertshaw	720-079	**6KXC8**
170,000 BtuH	Fast Opening	24 V	NG/LP	½ in	½ in	Robertshaw	722-079	**1TGD7**
230,000 BtuH	Fast Opening	24 V	NG/LP	½ in	¾ in	White-Rodgers	36H32-304	**16X612**
300,000 BtuH	Fast Opening	24 V	NG/LP	¾ in	¾ in	White-Rodgers	36H32-423	**1YRN7**
300,000 BtuH	Std. Opening	24 V	NG/LP	¾ in	¾ in	Honeywell Home	VR8345M4302	**4CZ56**

** Vented applications only. † ECO adapter included.*

6KXE6

6KXG8

Description	Replaces	Mfr. Model	Item No.
Electric Cooking Controls			
High Temperature Limit, 125/250/480V AC, For Use With Broaster AB-6962, Vulcan-Heat 110-840-2 and 410840-2	LCC-36-060-00-00	5225-010	**6KXE6**
High Temperature Limit, 125/250/480V AC, For Use With Manual Reset Button	DSC 13245, Pitco #PP10084	5225-112	**6KXJ0**
High Temperature Limit, 125/250/480V AC, For Use With Wells 38656	LCH-J6-024-00-00	5225-054	**6KXH9**
Infinite, 120/240V AC	INF-120-212	5500-103	**26X378**
Infinite, 120/240V AC	INF-120-519	5500-102	**26X373**
Infinite, 120V AC	INF-120-1152	5500-135	**6KXE9**
Infinite, 120V AC	INF-120-599B	5500-113	**26X381**
Infinite, 120V AC, For Use With Duke 2074	INF-120-65	5502-303	**6KXF0**
Infinite, 120V AC, For Use With Vulcan Hart 411503-1	INF-120-4339	5502-474	**6KXF5**
Infinite, 120V AC, For Use With Wells 30570	INF-120-975	5502-309M	**6KXF1**
Infinite, 208V AC, For Use With Duke 2076	INF-208-359	5502-347	**6KXF2**
Infinite, 240V AC	INF-240-1153	5500-235	**6KXK2**
Infinite, 240V AC	INF-240-74	5502-359	**6KXK3**
Infinite, 240V AC, For Use With Savory 12355	INF-240-5518	5502-472M	**6KXF4**
Infinite, 240V AC, For Use With Wells 50662	INF-240-1010	5502-370M	**6KXF3**
Thermostat, 120/240V AC	Z90644	5210-124	**6KXG2**
Thermostat, 120/277V AC	—	5000-813	**6KXG0**
Thermostat, 120/277V AC	—	5300-146	**6KXJ4**
Thermostat, 120/277V AC	5000-210, 5020-003, F16-175	5000-811	**6KXH7**
Thermostat, 120/277V AC	5300 Series	5300-041	**6KXJ2**
Thermostat, 120/277V AC	American Permanent Ware 56527, KA-1048-36	5300-015	**6KXJ1**
Thermostat, 120/277V AC	McGraw Edison 18A1874	5000-851	**6KXH8**
Thermostat, 120/277V AC	Ranco G1 Series	5300-735	**6KXK1**
Thermostat, 120/277V AC	SP-184	5300-612	**6KXJ6**
Thermostat, 120/277V AC	SP-188	5300-618	**6KXJ7**
Thermostat, 120/277V AC	SP-197	5300-651	**6KXJ9**
Thermostat, 120/277V AC, For Use With Duke Mfg. 012081 & 012173, F16-761	—	5300-027	**6KXG1**
Thermostat, 120/277V AC, For Use With US Range #227141	—	5300-711	**6KXK0**
Thermostat, 250V AC, For Use With J.C. Pitman (Pitco)	EA3-44	5300-100	**6KXE7**
Thermostat, Millivolt, For Use With KX-87, KX-299, For Millivolt Gas Systems Only	KX-299, KX-87	5300-401	**6KXE8**

Cooking Controls

Robertshaw

Precise, high-quality replacements for OEM parts.

Description	Replaces	Mfr. Model	Item No.
Gas Cooking Controls			
Electromagnet Replacement Kit, For Use With 1710 Series Body Inlet And Outlet Model-TS "J" Head	1720-803	1720-801	**6KXG8**
Electromagnet Replacement Kit, For Use With 1710 Series Body Outlet Only Model-TS "K" Head	1720-804	1720-802	**6KXG9**
Gas Solenoid Valve, For Use With Commercial Cooking Applications	FJT-29	4075-029	**6KXH2**
Gas Valve, For Use With Commercial Cooking Applications	A.O. Smith B-5183	700-804	**6KXF6**
Igniter, For Use With Gas Cooking Oven	08067970, 316t023P03/P07/P10/P12/801, 316T023P03/P07/P10/P12/S01, 336650, 4163781, 4392019, 7432P025-60, 7432P062-60/K, 7432PO52-60/K 08067970 142-224, F16-743	41-207	**30ZZ06**
Igniter, For Use With Robertshaw HVN Series or an Eaton NC4100 Series Gas Valve	359-199, F16-747, Gaffers And Sattler 18601, GR411, Hardwick 01-055-041-99, IGN-4	41-204	**6KXD9**
Incinerator Target Pilot, For Use With All Thermocouples	Factory # 2CH-10	1830-115	**6KXH1**
	Factory # 2CH-2	1830-210	**6KXH0**
Spark Ignition Module, For Use With Oven Ignition	Use on Jade Range	41-521	**6KXE0**
Thermostat, For Use With 700-800 Series Diaphragm Gas Valve	Consolidated G-111, DCS 13244, Dynamic Cooking GS-A6-030-18-00, Pitco GSA60301814	4290-006	**6KXH6**
Thermostat, For Use With And Sterilizers, Fryers, Ovens	Garland 8009, Hobart 110837-2, Hobart 11327, Hobart 410837-	4290-005	**6KXF9**
Thermostat, For Use With Commercial Cooking Applications	BJ and BJWA	4200-007	**6KXE1**
Thermostat, For Use With Fryers, Ovens, Sterilizers	Bakers Pride M1005X, Consolidated G-140	4200-503	**6KXH5**
Thermostat Kit For Griddles, For Use With Commercial Cooking Applications	BJ and BJWA	4350-028	**6KXE4**
		4350-128	**6KXE5**
Thermostat Kit For Ovens, For Use With Commercial Cooking Applications		4350-027	**6KXE2**
		4350-127	**6KXE3**

Type	Voltage	Prepurge Time (sec.)	Retries	Brand	Mfr. Model	Item No.
Direct Spark Ignition	24	34 sec	3	Robertshaw	780-501	**1TGE1**
Hot Surface Ignition	24	30 sec	0 to 2	White-Rodgers	50E47-843	**3XA74**
	24	30 sec	2	White-Rodgers	50A55-843	**3XA75**
	24	30 sec	2	White-Rodgers	50A65-843	**3XA76**
	24	32 sec	1 or 3	ICM	ICM283	**5KPX5**
	120	32 sec	1 or 3	Honeywell Home	S8910U3000	**48KT46**
Intermittent Pilot Ignition	24	0 or 30	Continuous	ICM	ICM290A	**5KPX6**
	24	360 sec	3	Robertshaw	780-845	**1TGD9**
	24	Up to 30	Continuous	Honeywell Home	S8610U3009	**1RZZ2**
Lockout, 1 Rod or 2 Rod Sensing	24	360 sec	3	Robertshaw	780-002	**4E959**
Nonlockout, 1 Rod or 2 Rod Sensing	24	—	Continuous	Robertshaw	780-001	**4E958** *
Spark Ignition	24	45 sec	3	Robertshaw	780-003	**6KXD5**
Spark Ignition, Lockout	24	—	Continuous	Robertshaw	780-735	**6KXD4**
Spark Ignition, Nonlockout	24	—	Continuous	Robertshaw	780-715	**6KXC6**
Spark to Pilot	24	0 or 30	0, 2, or Continuous	White-Rodgers	50D50-843	**16X611**
Universal Integrated Two-Stage	24V AC	15 sec	2	White-Rodgers	21V51U-843	**16X596**
	24V AC	15 sec	2	White-Rodgers	21M51U-843	**16X595**
Universal Single Stage	24V AC	30 sec	2	White-Rodgers	50M56U-843	**16X594**

*** NG only.**

Universal System Controls

- ¼" quick-connect
- Gas type: LP/NG

3XA74 is universal for comparative silicon carbide modules. Features interchangeable program keys. 1RZZ2 is for single- and dual-rod remote sense applications.

Note: For more information on included components and features, go to Grainger.com®.

48KT46

Intermittent Pilot Ignition Systems and Conversion Kits

Conversion Kit

Convert conventional standing pilot systems to intermittent pilot systems. 1TGE4 is 100% shutoff with 90-sec. max. ignition trial; continuous retry. 4E396 has no max. lockout time with continuous trial for ignition and is not 100% shutoff. 4E397 has 60-sec. max. lockout time, and shutoff is 100% after 3 trials for ignition.

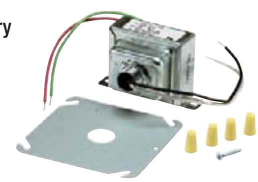
Note: For kit contents, go to Grainger.com®.

Description	Control Volts	BtuH Cap.	Gas Type	Inlet/ Outlet (in.)	Brand	Mfr. Model	Item No.
Intermittent Pilot Gas Ignition Systems	24 V	170,000 / 272,000	LP/NG	½ X ½	Robertshaw	712-005	**1TGE4**
	24 V	200,000	NG	½ x ¾	Robertshaw	712-017	**4E396**
	24 V	200,000 / 320,000	LP/NG	½ x ¾	Robertshaw	712-008	**4E397**
Standing Pilot Conversion Kits	24 V	150,000	LP/NG	½ x ½	Honeywell Home	Y8610U4001	**2RNY1**
	24 V	270,000	LP/NG	½ x ¾	Honeywell Home	Y8610U6006	**2RNY2**

Universal-Mount Transformers

- 8" primary and secondary leads, except screw terminals on 6JZX6
- 1-phase, 60/50 Hz
- Thermal fuse protection
- Mounting: foot, 4 x 4 plate, or hub

Indoor enclosure.



6JZX4

Input Voltage	Output Voltage	VA Rating	Mfr. Model	Item No.
120V AC	24V AC	40 VA	620-403	**6JZX4**
208V AC, 240V AC	24V AC	40 VA	620-404	**6JZX5**
120V AC, 208V AC, 240V AC	12V AC, 2.5V AC, 24V AC	48 VA	620-402	**6JZX3**
	24V AC	50 VA	620-502	**6JZX7**
	28V AC	50 VA	620-501	**6JZX6**
120V AC, 208V AC, 240V AC, 480V AC	24V AC	75 VA	620-503	**6JZX8**

Furnace Control Boards

Direct wire-for-wire replacement of OEM control boards.

Description	Replaces	Brand	Mfr. Model	Item No.
Defrost Control Board	Carrier Mfr. No. HK32EA001, HK32EA003, HK32EA008	ICM	ICM350	**32MY16**
	Mfr. No. PCBDM-133	ICM	ICM314C	**53YK29**
Fan Blower Control	42-22515-02, 42-22515-03 Bard: 8201-056 Snyder General/ICP: 1395336 Mars: 32393, A-1: 5893 Rheem: 42-22515-01	ICM	ICM255	**5KPW9**
	Carrier: CES0110019, HH84AA001, HH84AA003, HH84AA005, HH84AA009, HH84AA014, HH84AA015, HH84AA021 and Robertshaw: 695-101	ICM	ICM275	**5KPX1**
	Carrier Mfr. No. 302075-3, CES01100017, CES01100018, HH84AA010, HH84AA011, HH84AA012, HH84AA013, HH84AA020, P771-7002, and Robertshaw Mfr. No. 695-100	ICM	ICM271	**5KPX0**
Fan Blower Control Board	Carrier Mfr. No. HH84AA017, HH84AA018	ICM	ICM278	**32MY15**
Furnace Control Board	B18099-06, B18099-08, B18099-10, B1809913, CNT04664, Mfr. No. 50T35-730	White-Rodgers	50T35-743	**44R198**
	Carrier CES0110074-01	ICM	ICM2804	**40N232**
	Carrier LH33WP003 (DSI Control Board)	ICM	ICM291	**40N229**
	Carrier Mfr. No. 325878-751, HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016, HK42FZ034, ICM282A	White-Rodgers	50M56U-751	**38XJ62**
	Carrier Mfr. No. HK42FZ017	ICM	ICM2807	**32MY17**
	Goodman B18099-26S, PCBBF112S	ICM	ICM286	**40N226**
	Lennox for all BCC1, BCC2 and BCC3 Circuit Boards	ICM	ICM289	**40N228**
	Lennox Models 100925-01, 100925-02, 100925-03, 10M93, 32M8801, 56L84, 56L8401, 24L8501, 63K89, 63K8901, 97L4801, 17W9201, 23W5101, 30W2501, 69M0801, 69M1501, 83M001, White Rodgers Models 50A66-843, 50A62-121, 50A66-122, 5066-123, 50A65-121, 50A62-120, 50A62-820, 50A66-123	White-Rodgers	21D83M-843	**44R199**
	Non-Integrated Modules, Replaces All Spark	White-Rodgers	50D50-842	**30PL30**
	Nordyne 624631	ICM	ICM2805A	**40N233**
	Rheem 62-24084-82	ICM	ICM288	**40N227**
	Rheem 62-24140-04 (DSI Control Board)	ICM	ICM292	**40N230**
	Trane Mfr. No. CNT02789, CNT02891, CNT03799, D341122P01, D341235P01, D341235P03, White-Rodgers 50A55-474, 50A55-476, 50A55-571	White-Rodgers	50A55-3797	**38XJ65**
	Trane Mfr. No. CNT03076, CNT03098, CNT05164, CNT05165, D341213P01, D341396P03, D341396P04, D3411396P05	White-Rodgers	50A65-5165	**38XJ63**
	York/Evcon 7990-319P	ICM	ICM2801	**40N231**
	York Mfr. No. 265901, 265902, S1-03100662000, S1-03101250000, S1-03101266000, S103101267000, S1-03101267001, S103101284000, S103101933000, S103101972000, S103109167000, S13310102956000, S!33103010000	White-Rodgers	50A56-956	**38XJ64**
	York Mfr. No. S1-331-03010000, S1-331-02956000	ICM	ICM2808	**32MY18**
Furnace Control Module	325878-751, Carrier: HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016	ICM	ICM282A	**5KPX4**
	Carrier: CESO11005700, CES0110020, CES0110048, CESO11005701, CESO11005702, HH84AA016	ICM	ICM281	**5KPX3**
	Goodman/Janitrol: B18099-06, B18099-08, B18099-10, B18099-13, B18099-13S, UTEC: 1012-933D, Texas Instruments: 41F-5, White-Rodgers: 50T35-730, 50T35-743	ICM	ICM280	**5KPX2**
Integrated Hot Surface Control	Drop In Direct Replacement Ignition Control for Goodman 0130F00005, 0130F00005S, B1809926, B1809926S, PCBBF110, PCBBF110S, PCBBF112, PCBBF123, PCBBF123S, White-Rodgers 50T55-289 and 50A55-289	White-Rodgers	50A55-743	**29TH96**
	Goodman Replacement Integrated Hot Surface Control 0130F00006, 0130F00006S, PCB00109, PCBBF109, PCBBF122, PCBBF122S, PCBBF132, PCBBF132S, 50M56-289	White-Rodgers	50M56-743	**29TH95**
	Lennox Models 30W2501, 100925-01, 100925-02, 100925-03, 17W92, 17W9201, 23W51, 23W5101, 30W25, 30W2501, 69M08, 69M0801, 69M15, 69M1501, 50A66-122, 50A66-123, 50A66-743	White-Rodgers	50A66-743	**29TH94**

Electric Water Heater Thermostats and Limit Controls

Thermostats—Terminal 1 is common. 6XZV2 closes circuits 1 and 4 and opens circuits 1 and 2 on temperature rise.

Limit Control/Thermostats—Factory assembled.

Limit Control—Manual reset.

Description	Switch Action	Temp. Range (F)	Contact Rating Noninductive 120/240V	277V	480V	Pilot Duty 120/480V (VA)	Watts 120V	240V	Item No.
Thermostat SPST	Open on Rise	90 to 150	30 A	25 A	12.5 A	125	3,000	6,000	**6XZV1**
Thermostat SPDT	Open 1-2 on Rise	90 to 150	30 A	25 A	12.5 A	125	3,000	6,000	**6XZV2**
Limit Control/ Thermostat	Open on Rise	90 to 150 (170 Fixed)	30 A	25 A	12.5 A	125	3,000	6,000	**6XZV4**
	Open 1-2 on Rise	90 to 150 (170 Fixed)	30 A	25 A	12.5 A	125	3,000	6,000	**6XZV5**
Limit Control DPST	Open on Rise	170 fixed	40 A	40 A	25 A	125	—	—	**6XZV3**

6XZV3

Honeywell Home White-Rodgers Supco Johnson Controls

Plenum-Mount Fan and Limit Controls

FAN AND LIMIT

Single-element fan and limit combination fits applications with narrow space limitations.

Honeywell—UL Listed.

White Rodgers—UL Recognized and CSA Certified.

LIMIT

- Pilot-duty rated
- Resistive amps: 15 at 120V, 10 at 240V
- Inductive amps: 3 at 120V, 1.5 at 240V
- Voltage: 120/240/480

UL Listed and CSA Certified.

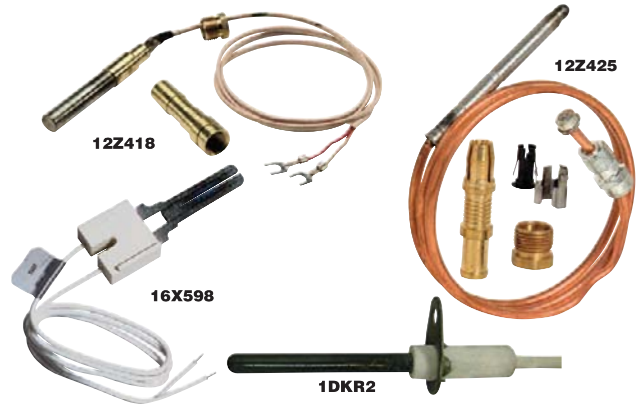
WARM AIR

- Max. element temp.: 300°F
- Pilot duty: 125VA at 24 to 600VAC
- Inductive amps: 16 at 120V, 8 at 240V

Features adjustable dial stop and trip-free reset lever. UL Listed.

Element Insertion Length	Differential	Temp. Range (F)	Brand	Mfr. Model	Item No.
Fan and Limit Control - Adjustable Temp., Auto Reset					
5 in	Limit Fixed 25°F, Fan Adj. 22°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2228	**2E818**
5 in	Fan Adj. 15°F, Limit Fixed 25°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-35	**2E232**
8 in	Fan Adj. 22°F, Limit Fixed 25°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2236	**2E819**
8 in	Limit Fixed 25°F, Fan Adj. 15°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-90	**2E372**
9 in	—	100 to 350	White-Rodgers	416-4	**48FX06**
11 ½ in	Fan Adj. 22°F, Limit Fixed 25°F	Fan 50 to 200, Limit 100 to 250	Honeywell Home	L4064B2210	**2E820**
11 in	Fan Fixed 25°F, Fan Adj. 15°F	Fan 50 to 265, Limit 100 to 300	White-Rodgers	5D51-78	**2E139**

Element Insertion Length (in.)	Switch Opens @ (°F)	Differential	Brand	Mfr. Model	Item No.
Limit Control - Fixed Temp., Auto Reset					
1 ⅞ in	170 °F	40°F	Supco	SHL506	**2FBX3**
3 ⅛ in	140 °F	30°F	Supco	SHL507	**2FBX4**
	170 °F	20°F	Supco	SHL512	**2FBX6**
	170 °F	40°F	Supco	SHL501	**2FBW8**
	170 °F	40°F	Supco	SHL513	**2FBX7**
	180 °F	30°F	Supco	SHL502	**2FBW9**
	180 °F	40°F	Supco	SHL514	**2FBX8**
	190 °F	20°F	Supco	SHL508	**2FBX5**
	190 °F	40°F	Supco	SHL503	**2FBX1**
	200 °F	40°F	Supco	SHL515	**2FBX9**
	210 °F	40°F	Supco	SHL516	**2FBY1**
	220 °F	40°F	Supco	SHL517	**2FBY2**
	240 °F	40°F	Supco	SHL504	**2FBX2**
	250 °F	40°F	Supco	SHL518	**2FBY3**
Warm Air Limit Control - Manual Reset Adjustable Temp., 25° to 215°F					
9 5⁄16 in	—	—	Johnson Controls	A25AN-1C	**38Y077**



Robertshaw White-Rodgers Honeywell Home Honeywell Supco

Pilot and Ignition Components

Items are LP/NG except where noted.

5AU59 is ¼"-dia. aluminum tubing; includes compression nut, ball sleeves, and breakaway ferrule.

12Z418 includes PG9 pilot adapter.

2E446 has 36" armored cable leads with split-spade terminals. Includes mounting nut, spring clips, and PG9 adapter sleeve.

2EWF9 and 2EWF8 have low-mass, quick-dropout thermocouples.

Description	Tip Style	Brand	Mfr. Model	Item No.
Pilot Assembly				
Aerated	—	Robertshaw	1810-100	**12Z431**
	90° Left	Robertshaw	1820-039	**12Z433**
	90° Right	Robertshaw	1820-029	**12Z432**
Aerated, 2 in"L	25° Left	Robertshaw	1830-501	**6KXD7**
Electronic Pilot Burner with Safety Switch, 30V AC	—	Robertshaw	1830-620	**499N04**
Intermittent Pilot Burner/Ignitor-Sensor	Adjustable	Honeywell	Q3451U1000	**27Z299**
	Adjustable	Honeywell Home	Q345U1005	**36Z439**
	Batwing	Honeywell Home	Q348U1009	**36Z440**
Intermittent Pilot Burner/ Ignitor-Sensor, 24 in"L	Flame Pattern 90° Left	Robertshaw	1830-716	**2EWF7**
	Flame Pattern Standard	Robertshaw	1830-705	**2EWF6**
Thermopile, 750 mV, 32 in"L	90° Left	Robertshaw	1820-019	**2EWG2**
	90° Right	Robertshaw	1820-009	**2EWG1**
	Channel Type	White-Rodgers	PG9A38JTL24	**1RC59**
Universal, 750 and 18 to 30 mV, T-Pile 24, Electrode 18, T-Couple 18"L	—	Robertshaw	1819-001	**2EWF8**
Universal Ignitor/Sensor Assembly, 24V, 2 ¼ in"L	Round	Robertshaw	1751-729	**6KXG6**
	Round	Robertshaw	1751-749	**6KXG7**
Universal Standing Pilot Burner	Adjustable	Honeywell Home	Q314U1001	**36Z438**

L (in.)	Brand	Mfr. Model	Item No.
Hot Surface Ignitor, 120V AC, Silicon Carbide**			
3⅛"	Robertshaw	41-406	**6KXC5**
3¼"	Robertshaw	41-803	**6EPY5** †
3¼"	Robertshaw	41-410	**6KXD1**
3¼"	Supco	IG402K	**4LWU9**
3¼"	Supco	IG403K	**4LWX1**
3 5⁄16"	Supco	IG4000	**4LWX2**
4½"	Robertshaw	41-411	**5JA30**
4½"	Robertshaw	41-409	**1TGF4**
4½"	Robertshaw	41-408	**1TGF3**
4½"	Robertshaw	41-404	**5JA29**
4½"	Robertshaw	41-401	**5JA28**
5"	Honeywell Home	Q4100C9046	**48KT52**
5¼"	Honeywell Home	Q4100C9054	**48KT53**
5¼"	Honeywell Home	Q4100C9056	**48KT54**
5¼"	Robertshaw	41-414	**5JA31**
5¼"	Robertshaw	41-412	**1TGF5**
5¼"	Robertshaw	41-405	**35U238**
5¼"	White-Rodgers	767A-373	**16X602**
5¼"	White-Rodgers	767A-372	**16X601**
5¼"	White-Rodgers	767A-370	**16X599**
5¼"	White-Rodgers	767A-361	**5E811**
5¼"	White-Rodgers	767A-357	**5E810**
5⅓"	White-Rodgers	767A-366	**5E813**
5½"	Robertshaw	41-403	**1TGF6**
5⅔"	White-Rodgers	767A-365	**5E812**
6"	White-Rodgers	767A-356	**5E809**
19⅛"	White-Rodgers	767A-371	**16X598**
Hot Surface Ignitor, 120V AC, Silicon Nitride**			
1¾"	Supco	SSN24	**4LWU6** **
2⅛"	Supco	SSN4000	**4LWU8** †
2 3⁄16"	Honeywell Home	Q3200U1004	**6HMJ0** *
2⅝"	Robertshaw	41-802N	**6EPY4** †
2⅝"	Supco	SSN3000	**4LWU7** †
3¼"	Supco	SSN2000	**1DKR2** †
15½"	White-Rodgers	21D64-5PK	**30PL31** †#
15½"	White-Rodgers	21D64-2	**16X597**
Ignitor/Flame Rod Assembly, 24V AC			
30"	Honeywell Home	Q3400A1024	**3UC35** *

*** NG only. ** 4LWU6 is 24V, and has flame rod assembly. † Universal. # Pkg. of 5.***

Description	Voltage	L (in.)	Brand	Mfr. Model	Item No.
Pilot Tubing					
Cut to Length	—	60 in	Robertshaw	11-293	**5AU59**
Thermopile					
Pilot Generator	250mv to 750mv	36 in	Robertshaw	1950-001	**12Z418**
		36 in	Robertshaw	1951-536	**12Z419**
	750 mV	36 in	White-Rodgers	G01A-332	**2E446**
Quick Connect		35 in	Honeywell Home	Q313A1170	**36WH82**
Replacement Thermocouple					
Snap-Fit	18 to 30 mV	18 in	Robertshaw	1980-018	**12Z425**
		24 in	Robertshaw	1980-024	**12Z426**
		30 in	Robertshaw	1980-030	**12Z427**
		36 in	Robertshaw	1980-036	**12Z428**
		48 in	Robertshaw	1980-048	**12Z429**
Standard Coaxial		18 in	White-Rodgers	H06E-018	**2E166**
		18 in	Honeywell Home	Q340A1066	**2E720**
		24 in	White-Rodgers	H06E-024	**2E140**
		24 in	Honeywell Home	Q340A1074	**2E524**
		30 in	White-Rodgers	H06E-030	**2E141**
		30 in	Honeywell Home	Q340A1082	**2E721**
		36 in	White-Rodgers	H06E-036	**2E142**
		36 in	Honeywell Home	Q340A1090	**2E525**
		48 in	White-Rodgers	H06E-048	**2E337**
		48 in	Honeywell Home	Q340A1108	**36WH80**
Threaded	20 to 30 mV	18 in	Robertshaw	1970-018	**12Z420**
		24 in	Robertshaw	1970-024	**12Z421**
		30 in	Robertshaw	1970-030	**12Z422**
		36 in	Robertshaw	1970-036	**12Z423**
		48 in	Robertshaw	1970-048	**12Z424**
Universal Coaxial ODS	18 to 30 mV	27 in	Robertshaw	1960-027	**2EWF9**

Description	Brand	Mfr. Model	Item No.
Flame Sensors			
Single Rod, 30", ¼" Female Spade	White-Rodgers	760-401	**4E957**
Mercury, 48", Plug-In, No. 19 Bulb	White-Rodgers	3098-134	**1N180**
Mercury, 48", Plug-In, No. 20 Bulb	White-Rodgers	3098-156	**1N181**
Plug-In, Sleeve Covered, 125V	White-Rodgers	30A46-105	**48FX08**
Plug-In, Stud Mount, 125V	White-Rodgers	30A46-5	**48FX07**
Hot Surface Ignition, For Mfr. No. 0130F00010	Supco	FLS010	**48XL37**
Hot Surface Ignition, For Mfr. No. LH33WZ514	Supco	FLS013	**48XL38**
Hot Surface Ignition, For Mfr. No. LH33ZS004	Supco	FLS014	**48XL39**
Hot Surface Ignition, For Heating Equipment	Supco	FLS201	**48XL40**
Hot Surface Ignition, For Mfr. No. 62-25343-01	Supco	FLS301	**48XL41**
Hot Surface Ignition, For Mfr. No. 760-401, PFS401	Supco	FLS401	**48XL42**
Hot Surface Ignition, For Mfr. No. 025-27773-700	Supco	FLS700	**48XL43**

Snap-Disc Controls and Electric Sequencers

6UDY4

- Quick-connect terminals

Provide fast or time-delayed control of startup and shutdown sequences.

Snap-Disc Controls
- Mounting: multipositional

Electric Sequencers
- 24V input control
- Pilot duty: 125VA at 120/480V

Switch Closes @ (°F)	Switch Opens @ (°F)	Voltage Range	Item No.
Snap Disc Controls			
Adjustable Limit, Automatic Reset			
115 to 155	135 to 175	120 to 240	**6UDY4**
135 to 175	175 to 215	120 to 240	**6UDY5**
170 to 210	210 to 250	120 to 240	**6UDY6**
210 to 250	250 to 290	120 to 240	**6UDY7**
Limit, Automatic Reset			
100 °F	140 °F	120 to 240	**6UDY8**
110 °F	120 °F	120 to 240	**6UDY9**
115 °F	125 °F	120 to 240	**6UDZ0**
115 °F	130 °F	120 to 240	**6UDZ1**
120 °F	135 °F	120 to 240	**6UDZ2**
120 °F	140 °F	120 to 240	**6UDZ3**
120 °F	160 °F	120 to 240	**6UDZ4**
120 °F	160 °F	120 to 240	**6UDZ5**
125 °F	145 °F	120 to 240	**6UDZ6**
130 °F	150 °F	120 to 240	**6UDZ7**
135 °F	155 °F	120 to 240	**6UDZ8**
140 °F	180 °F	120 to 277	**6UDZ9**
140 °F	180 °F	120 to 240	**6UEA0**
145 °F	165 °F	120 to 240	**6UEA1**
150 °F	170 °F	120 to 240	**6UEA2**
150 °F	190 °F	120 to 277	**6UEA3**
155 °F	175 °F	120 to 240	**6UEA4**
160 °F	180 °F	120 to 240	**6UEA5**
160 °F	200 °F	120 to 277	**6UEA6**
160 °F	200 °F	120 to 240	**6UEA7**
185 °F	225 °F	120 to 240	**6UEA8**
210 °F	250 °F	120 to 240	**6UEA9**
260 °F	300 °F	120 to 240	**6UEC0**
Limit, Rollout, Manual Reset			
—	135 °F	120 to 240	**6UEC1**
—	160 °F	120 to 277	**6UEC2**
—	180 °F	120 to 277	**6UEC3**
—	200 °F	120 to 277	**6UEC4**
—	220 °F	120 to 240	**6UEC5**
—	240 °F	120 to 240	**6UEC7**
—	250 °F	120 to 240	**6UEC8**
—	260 °F	120 to 240	**6UEC9**
—	300 °F	120 to 240	**6UED0**
—	350 °F	120 to 240	**6UED1**
Fan and Limit			
Limit 120, Fan 140	Limit 140, Fan 120	120 to 277	**6UED2**
Limit 170, Fan 190	Fan 170, Limit 190	120 to 277	**6UED3**
Fan			
90 °F	80 °F	120 to 240	**6UED4**
110 °F	90 °F	120 to 277	**6UED5**
120 °F	110 °F	120 to 240	**6UED6**
130 °F	115 °F	120 to 277	**6UED7**
140 °F	120 °F	120 to 277	**6UED8**
150 °F	130 °F	120 to 277	**6UED9**
160 °F	140 °F	120 to 277	**6UEE0**
Adjustable Fan			
90 to 130	70 to 110	120 to 240	**6UEE1**
140 to 180	120 to 160	120 to 240	**6UEE2**
Surface Mount			
Surface Mount Conversion Bracket			**6UEE3**

Off Time (sec.)	On Time (sec.)	No. of Switches	Main Switch On Time (sec.)	Main Switch Off Time (sec.)	No. of Timings	Aux. Switch Off Time (sec.)	Aux. Switch On Time (sec.)	Item No.
Electric Sequencers								
1 to 30	30 to 90	1	30 to 90	1 to 30	1	1 to 30	30 to 90	**6UEE5**
1 to 20	40 to 110	1	1 to 20	40 to 110	1	1 to 20	40 to 110	**6UEE6**
1 to 25	65 to 115	1	1 to 25	65 to 115	1	1 to 25	65 to 115	**6UEE4**
1 to 30	30 to 90	2	30 to 90	1 to 30	2	1 to 30	30 to 90	**6UEE7**
1 to 20	40 to 110	2	1 to 20	40 to 110	2	1 to 20	4 to 110	**6UEE8**
1 to 110	1 to 110	3	1 to 110	1 to 110	3	1 to 110	1 to 110	**6UEE9**
1 to 110	1 to 110	4	1 to 110	1 to 110	2	1 to 110	1 to 110	**6UEF0**

Potential Relays

4MG77

Use to start 1-phase, capacitor-type motors in air conditioning and refrigeration applications.

Supco—Replaces most potential relays with 130 to 270V pickup. Contacts will open after 1 to 1.5 sec. if the motor does not start.

ICM—Differential voltage-sensing, universal motor-starting relay. Rated 50 amps @ 110 to 270V, 50/60 Hz. No user adjustments or sizing required.

Coil Voltage @ 60 Hz Pick-Up	Drop-Out	Max. Hold	Brand	Mfr. Model	Item No.
139 to 153	55 to 20	168	—	—	**5MLY8**
162 to 175	90 to 40	332	—	—	**5MLZ7**
166 to 180	100 to 70	332	—	—	**5MLY9**
185 to 200	105 to 40	375	—	—	**5MLZ0**
189 to 205	130 to 60	450	—	—	**5MLZ8**
212 to 235	121 to 60	420	—	—	**5MLZ2**
260 to 275	100 to 50	332	—	—	**5MLZ3**
260 to 275	135 to 60	500	—	—	**5MLZ4**
295 to 315	135 to 60	500	—	—	**5MLZ5**
332 to 356	135 to 60	500	—	—	**5MLZ6**
Adjustable	Adjustable	Adjustable	Supco	APR-5	**4MG77**
Automatic	Automatic	502	ICM	ICMUMSR-50B	**1ECC9**

Magnetic and Transformer Combination Relays

18F255

Snap-acting for remote control of air conditioning, heating, and ventilation systems, motors (up to 1½ HP), tools, and other electrical devices within ratings.

MAGNETIC

AC Switching—SPST models have combination screw/push-on terminals and permanent jumper to load (except where noted). DPST models have screw-type line and load terminals.

Enclosed Fan (Heavy Duty)—¼" spade terminals.

SureSwitch Relay—Microprocessor-controlled switching algorithms reduce arcing, virtually eliminating contact pitting and welding.

TRANSFORMER COMBINATIONS

120V primary, except 2E346 is 240V and features conduit hub or screw mounting.

Switch Type	Coil Volts	Full Load Amps @ 120V	Full Load Amps @ 240V	Brand	Mfr. Model	Item No.
Magnetic						
AC Switching						
DPDT	24	12 A	6 A	—	—	**6AZT9**
DPDT	120	12 A	6 A	—	—	**6AZU0**
DPDT	208/240	12 A	6 A	—	—	**6AZU1**
DPDT	24	12 A	6 A	Honeywell Home	R8222D1014	**2E682**
DPDT	24	12 A	6 A	White-Rodgers	90-340	**4E943**
DPDT	115/120	12 A	6 A	White-Rodgers	90-341	**4E944**
DPDT	208/240	12 A	6 A	White-Rodgers	90-342	**4E945**
DPST	24	—	30 A	—	—	**5MMA5**
DPST	24	12 A	6 A	—	—	**6ACH5**
DPST	120	12 A	6 A	—	—	**6ACH6**
DPST	208/240	12 A	6 A	—	—	**6ACH7**
DPST	24	30 A	—	Dayton	—	**18F255**
SPDT	208/240	12 A	6 A	—	—	**6ACH4**
SPDT	24	12 A	6 A	Honeywell Home	R8222B1067	**2E681**
Enclosed Fan (Heavy-Duty)						
SPDT	24	14 A	8 A	—	—	**6AZU4**
SPDT	120	14 A	8 A	—	—	**6AZU5**
SPDT	277	14 A	8 A	—	—	**6ACJ1**
SPDT	208/240	14 A	8 A	—	—	**6AZU6**
SPDT	24	8 A	8 A	White-Rodgers	90-293Q	**4E659**
SPDT	24	12 A	8 A	White-Rodgers	90-370	**1N184**
SPDT	115/120	8 A	8 A	White-Rodgers	90-294Q	**4E941**
SPNO	24	14 A	8 A	—	—	**6AZU2**
SPNO	120	14 A	8 A	—	—	**6ACH8**
SPNO	277	14 A	8 A	—	—	**6ACJ0**
SPNO	24	8 A	8 A	White-Rodgers	90-290Q	**4E658**
SPNO/SPNC	24	14 A	8 A	—	—	**6AZU3**
SPNO/SPNC	120	14 A	8 A	—	—	**6ACJ2**
SPNO/SPNC	208/240	14 A	8 A	—	—	**6ACJ3**
SPNO/SPNC	24	12 A	8 A	White-Rodgers	90-380	**1N185**
SureSwitch Relay						
Electronic	120V AC, 208/240V AC, 24V AC	40 A	—	White-Rodgers	49M11-843	**786Y44**
Transformer Combinations						
4x4 Junction Box Mount						
DPDT	24	12 A	6 A	—	—	**6AZH6**
SPDT	24	12 A	6 A	—	—	**6AZH5**
SPDT	24	12 A	6 A	Honeywell Home	R8285A1048	**4E393**
SPNO/SPNC	24	12 A	6 A	—	—	**6AZH4**
Conduit/Unit Mount (Hydronic Application)						
1 SPDT plus 1 Powerpile SPST	24	8 A	—	Honeywell Home	RA889A1001	**1RC38**
2 SPST plus 1 Powerpile SPST	24	7.4 A	—	Honeywell	R8845U1003	**278Y75**
SPST	24	10.2 A	5.1 A	Honeywell Home	RA89A1074	**2E866**
Conduit Box/Unit Mount						
SPST Normally Open (NO)	240	—	12 A	White-Rodgers	24A01G-3	**2E346**

Time-Delay Relays

Feature control knob for adjustable time range. 0.25" quick-connect terminals. 1-hole mounting.

4E233 and 4E234—Universal input voltage operation of 18 to 240VAC/VDC. 2-wire hookup. For compressor protection and staging.

4E235—Prevents compressor startup due to low line voltage/power failure. Input voltage: 18 to 30VAC.

4E890—Provides an Off delay to allow fan to continue running in forced air systems. 18 to 30VAC.

Type	Time Delay	Contact Rating (A)	Mfr. Model	Item No.
Delay on Make	Adj. 1.8 to 600 Sec.	1.5 A	ICM102	**4E233**
Delay on Break	Adj. 1.8 to 600 Sec.	1.5 A	ICM203	**4E234**
Delay on Break/Lockout	Adj. 180 to 600 Sec.	1.5 A	ICM206	**4E235**
Post-Purge	Adj. 12 to 390 Sec.	1 A	ICM253	**4E890**

Ignition Transformers, Burner Ignitors, and Burner Controls

Beckett · Honeywell Home · Allanson Environmental Electrics · ICM Controls

6HMJ3—Universally compatible controller has field-adjustable valve-on delay and 2-line diagnostic LCD. EnviraCom communication-ready.

3AAD7—Features limited recycle and reset, valve-on delay, welded relay protection, 3 status lights, and 24VAC terminals. Use with GeniSys Display 3AAD8 as a universal programming/diagnostic controller.

2E865—Combination primary and hydronic control with solid state control circuit and external low-voltage terminals. It has circulator control and includes well adapter and heat-conductive compound.

23M547—Universal replacement ignitor mounts onto any previously installed ignitor mounting plates; eliminates the need for extra mounting plates.

- 120V primary, 17.5kV peak secondary, 50/60Hz, 45mA

23M557

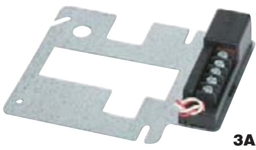
4NY12

4NU99

23M548

3AAD7

23M547



3AAE1

Description	Heater Voltage	Mounting Type	Safety Switch Timing	Brand	Mfr. Model	Item No.
Gas Burner Ignition Transformers						
Cleaver-Brooks Gas Burner & Industrial Combustions	120V AC	4 Holes	—	Allanson	1092-H	**23M561**
Gordon Piatt Gas Burners	120V AC	Slotted Plate	—	Allanson	1092-S	**23M558**
Industrial Burners	120V AC	Slotted Plate	—	Allanson	542-A	**25DU87**
Power Flame Burners	120V AC	¼-20 x 1 in Mounting Studs, One Ground	—	Allanson	542-PF-G	**25DU88**
Power Flame Gas Burners	120V AC	¼ 20 x 1 in Mounting Studs	—	Allanson	1092-PF	**23M559**
Gas Burner Ignitors						
Gas Burners	—	—	—	Allanson	2260-TP	**25DU89**
Gas Burners	—	—	—	Allanson	2265-TP	**25DU90**
Hot Water and Steam Boiler Burner Ignition Transformers						
Beckett A, AF, AFG Oil Burners	120V AC	End Hinge	—	Allanson	2721-628G	**23M552**
Beckett A, AF, AFG Oil Burners	240V AC	End Hinge	—	Allanson	2744-628G	**25DU85**
Beckett A Oil Burners	120V AC	Hinge Replacement	—	Beckett	51771GU	**4NY11**
Beckett S Oil Burners	120V AC	End Hinge	—	Allanson	2721-605	**25DU82**
Carlin 99, 100/1, CRD Oil Burners	120V AC	End Hinge	—	Allanson	2721-630	**23M554**
Industrial Gas Burners	120V AC	Slotted Plate	—	Allanson	1092-F	**23M557**
Oil Burners	120V AC	Igniter Only, No Hinge Replacement	—	Beckett	51838GU	**4NY12**
Oil Burners	120V AC	Bracket	15 sec	ICM	ICM1501	**53YK27**
Wayne E Oil Burners	120V AC	Side Hinge	—	Allanson	2721-620	**23M555**
Wayne E Oil Burners	120V AC	Hinge Replacement	—	Beckett	51827GU	**4NY10**
Wayne HI Speed M/MH Oil Burners	120V AC	End Hinge	—	Allanson	2721-619	**23M553**
Wayne M Oil Burners	120V AC	Hinge Replacement	—	Beckett	51825GU	**4NU99**
Wayne Oil Burners	240V AC	4 Mounting Holes in Plate	—	Allanson	2744-668	**25DU86**
Hot Water and Steam Boiler Burner Ignitors						
Beckett A, AF, AFG Oil Burners	120V AC	End Hinge	—	Allanson	2275-628G	**23M548**
Carlin 99, 100/1, CRD Oil Burners	120V AC	End Hinge	—	Allanson	2275-630	**23M550**
Wayne E Oil Burners	120V AC	Side Hinge	—	Allanson	2275-620	**23M551**
Wayne HI Speed M/MH Oil Burners	120V AC	End Hinge	—	Allanson	2275-619	**23M549**
Hot Water and Steam Boiler Oil Burner Controls						
Intermittent Spark, Interrupted Spark Ignition	120 V AC, 240 V AC	Junction Box	15 sec, 30 sec, 45 sec	Honeywell Home	R7284U1004	**6HMJ3**
Intermittent Spark, Interrupted Spark Ignition	132 V AC	Junction Box	15 sec	Beckett	7505B1500GU	**3AAD7**
Intermittent Spark Ignition, High and Low Limit	120 V AC	Horizontal Boiler Mount	45 sec	Honeywell Home	R8182D1111	**2E865**
Oil Burner Ignition Transformers						
Universal Ignition Transformer	120V AC	Universal	—	Allanson	421-BT636	**23M556**
Wayne Blue Angel Eagle One	120V AC	8-32 x ⅜ in Mounting Studs	—	Allanson	2721-647	**25DU83**
Wayne Oil Burners	120V AC	4 Mounting Holes in Plate	—	Allanson	2721-668	**25DU84**
Oil Burner Ignitors						
Hot Water and Steam Boiler Burner Ignitor	120V AC	Existing Mounting Plate	—	Allanson	2275U	**23M547**

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
GeniSys Lockout Alarm	Mfr. No. 7505B1500GU	Beckett	52040GU	**3AAD9**
Hot Water and Steam Boiler Oil Burner Control	Adding A/C Capability to Existing Furnace or Boiler with any Honeywell R7184 or R8184G Oil Primary Control. Replaces Honeywell Mfr. No. R8184M when used with Beckett 7505	Beckett	51950GU	**3AAE1**
Hot Water and Steam Boiler Oil Burner Control, Cadmium Sulfide	Oil Fired Furnace Control Systems	Honeywell Home	C554A1463	**1D294**
Hot Water and Steam Boiler Oil Burner Control	R7184U1020, R8182D1111, R8184G4009, R8184G4025	Honeywell Home	130367	**2E523**
Hot Water and Steam Boiler Oil Burner Control	(2) Pole Electronic Ignitors and Iron Core Transformers	Allanson	SC-2100	**23M560**

4NU97

3AAC2

High-Efficiency Oil Burners

Beckett

- 120V
- 15-sec. prepurge
- Use with No. 1 or No. 2 heating oil (ASTM D396) only
- Nozzles not included

Feature 1/7-HP PSC motor with automatic reset overload protection, 3450 rpm, and adjustable mounting flange. Each includes low-fire baffle, assorted heads, static plates, integrated solenoid valve, electronic oil ignitor, and single-stage pump. For air tube combinations, nozzles, and accessories, go to Grainger.com and search for Beckett.

Burner Type	GPH	Air Tube Length	Mfr. Model	Item No.
Complete Flame Retention	0.4 to 3.0 Determined by Nozzle Used	6 ⅝ in	B2502	**4NU97**
Complete Flame Retention	0.4 to 3.0 Determined by Nozzle Used	9 in	B2503	**4NU98**
Without Nozzle or Air Tube	0.4 to 3.0 Determined by Nozzle Used	—	B2007GU	**3AAC2**

4NY13

Oil Burner Pumps

Suntec Industries Incorporated · Beckett

- 120V
- 1- or 2-pipe systems

4NY15 and 4NY13—Can lift oil up to 8 ft. in 1-pipe system, up to 14 ft. in 2-pipe system.

4NY16—Includes integrated solenoid valve.

6TFC9—Can lift oil up to 18 ft. in 2-pipe system.

Description	GPH	Adjustable PSI Range	RPM	Brand	Mfr. Model	Item No.
1-Stage A1VA7112	3	100 to 150	1,725	Suntec	PF205N2GU	**4NY15**
1-Stage A2VA7116	3	100 to 150	3,450	Suntec	PF203N2GU	**4NY13**
1-Stage A2EA6527	4	100 to 200	3,450	Beckett	PF20322GU	**4NY16**
2-Stage B2YA8916	7	100 to 200	3,450	Suntec	PF207N2GU	**6TFC9**

Motorized 24V Hydronic Zone Valves

Honeywell | Honeywell Home | White-Rodgers

- Max. water temp.: 200°F (except where noted)

Manual lever provides valve operation during power failure. Use with 2-wire controls, except 3-wire for 2E163 and 2E164.

2E870

Connec. Type/Size (in.)	Type	Coefficient of Volume	Electrical Connec.	Brand	Mfr. Model	Item No.	
Valves							
Flare ½	NC	3.5	18 in Leads	Honeywell	V8043A1003	**279C01**	
NPT ½	NC	3.5	18 in Leads	Honeywell Home	V8043A1227	**2KKP1**	
NPT ¾	NC	3.5	18 in Leads	Honeywell Home	V8043E1145	**2KKR2**	*
	NO	3.5	18 in Leads	Honeywell Home	V8043B1076	**2KKP6**	
NPT 1	NC	10	18 in Leads	Honeywell Home	V8043E1137	**2KKR1**	*
Sweat ½	NC	3.5	18 in Leads	Honeywell	V8043A1011	**279A80**	
	NC	3.5	18 in Leads	Honeywell Home	V8043E5004	**2KKR3**	*
	NC	3.5	18 in Leads	Honeywell Home	V8043E1004	**2E870**	*
	NO	3.5	18 in Leads	Honeywell	V8043B1019	**279A82**	
Sweat ¾	NC	3.5	18 in Leads	Honeywell	V8043E5012	**279C04**	
	NC	3.5	18 in Leads	Honeywell	V8043A5029	**279C08**	
	NC	3.5	18 in Leads	Honeywell Home	V8043A1029	**2KKN7**	
	NC	3.5	18 in Leads	Honeywell Home	V8043E1012	**2E787**	*
	NC	8	18 in Leads	Honeywell Home	V8043E5061	**2KKR6**	*
	NC	8	18 in Leads	Honeywell Home	V8043E1061	**2KKP7**	*
	NO	3.5	18 in Leads	Honeywell	V8043B1027	**279A84**	
	NC	23.5	Terminal Board	White-Rodgers	1311-102	**2E163**	‡
	NC	23.5	Terminal Board	White-Rodgers	1361-102	**44R201**	‡
	NC	8	Terminal Board	Honeywell	V8043F1093	**279C03**	
Sweat 1	NC	3.5	18 in Leads	Honeywell	V8043E5020	**279C11**	
	NC	3.5	18 in Leads	Honeywell Home	V8043E1020	**2E788**	*
	NC	8	18 in Leads	Honeywell Home	V8043E1079	**2KKP8**	*
	NC	37.0	Terminal Board	White-Rodgers	1311-103	**2E164**	‡
	NC	3.5	Terminal Board	Honeywell Home	V8043F1051	**2E790**	*
	NC	8	Terminal Board	Honeywell Home	V8043F1101	**2KKT1**	*

** Integral end switch for sequencing auxiliary equipment. ‡ 240°F.*

Description	Brand	Mfr. Model	Item No.
Replacement Parts			
Motor, For use w/ V8043A Zone Valves, 60 Hz	Honeywell Home	802360JA	**2KKN3**
Motor, For use w/ V8043A Zone Valves, 50/60 Hz	Honeywell	802360UA	**279A69**
Head, 24V, For use w/ V8043F Zone Valves	Honeywell	40003916-048	**279A68**
Head, 24V, For use w/ V8043E Zone Valves	Honeywell	40003916-026	**279A67**

Motorized 24V Hydronic Zone Valves

Taco Comfort Solutions

12M799

- Max. water temp.: 220°F
- Snap-in connectors on power and end switch

Zone Sentry valves can be used in applications including 15 psi geothermal steam, heating systems, or in chilled water where condensation is present. The actuator can be replaced in seconds. Ball valve design installs in any orientation. Valves feature quick-connect wiring, multi-function LED, manual override, and end switch.

Connec. Type/Size (in.)	Type	Coefficient of Volume	Mfr. Model	Item No.
Valves				
NPT ½	2-Way, NC, Closed System	4.9	Z050T2-3	**12M803**
	2-Way, NO, Closed System	4.9	V050T2A2ZB024Q4A2	**12M809**
	3-Way, Closed System	1.5	Z050T3-2	**12M834**
NPT ¾	2-Way, NC, Closed System	10.3	Z075T2-3	**12M804**
	2-Way, NC, Geothermal System	10.3	V075T2G2ZA024Q4A2	**12M816**
	2-Way, NO, Closed System	10.3	V075T2A2ZB024Q4A2	**12M810**
	2-Way, NO, Geothermal System	10.3	V075T2G2ZB024Q4A2	**12M822**
	3-Way, Closed System	4.5	Z075T3-2	**12M835**
	3-Way, Geothermal Systems	4.5	V075T3G1ZA024Q4A2	**12M828**
NPT 1	2-Way, NC, Closed System	8.9	Z100T2-3	**12M805**
	2-Way, NC, Geothermal Systems	8.9	V100T2G2ZA024Q4A2	**12M817**
	2-Way, NO, Closed System	8.9	V100T2A2ZB024Q4A2	**12M811**
	2-Way, NO, Geothermal System	8.9	V100T2A2ZB024Q4A2	**12M823**
	3-Way, Closed System	4.5	Z100T3-2	**12M836**
Sweat ½	2-Way, NC, Closed System	4.9	Z050C2-2	**12M799**
	2-Way, NO, Closed System	4.9	V050C2A2ZB024Q4A2	**12M806**
	2-Way, NO, Geothermal System	4.9	V050C2G2ZB024Q4A2	**12M818**
	3-Way, Closed System	1.5	Z050C3-2	**12M831**
	3-Way, Geothermal System	1.5	V050C3G1ZA024Q4A2	**12M824**
Sweat ¾	2-Way, NC, Closed System	10.3	Z075C2-2	**12M801**
	2-Way, NC, Geothermal System	10.3	V075C2G2ZA024Q4A2	**12M813**
	2-Way, NO, Closed System	10.3	V075C2A2ZB024Q4A2	**12M807**
	3-Way, Closed System	4.5	Z075C3-2	**12M832**
Sweat 1	2-Way, NC, Closed System	8.9	Z100C2-2	**12M802**
	2-Way, NC, Geothermal System	8.9	V100C2G2ZA024Q4A2	**12M814**
	2-Way, NO, Closed System	8.9	V100C2A2ZB024Q4A2	**12M808**
	2-Way, NO, Geothermal System	8.9	V100C2G2ZB024Q4A2	**12M820**
	3-Way, Closed System	4.5	Z100C3-2	**12M833**
	3-Way, Geothermal System	4.5	V100C3G1ZA024Q4A2	**12M826**

Description	Mfr. Model	Item No.
Actuator Heads		
NO, 24V	ZB024Q4A2	**12M830**
NC, 24V	ZA024Q4A2	**12M798**

Water and Steam System Air Vents

resideo Braukmann | Bell & Gossett a xylem brand | Taco Comfort Solutions

Hydronic

- Max. temp.: 240°F (except where noted)

Resideo Brauckmann—Models have vent cap with leakage guard. Float/valve assembly is removable for servicing. Built-in vacuum breaker and shut-off valve.

Bell & Gossett—Nonadjustable, except 4NU93 has 6 port settings. 4NU93 and 4NU94 have horizontal pipe fittings; 4NU95 and 4NU96 have vertical pipe fittings.

Taco—Remove unwanted air from closed loop heating and cooling systems.

Type	Connection	Max. Pressure	Material	Brand	Mfr. Model	Item No.	
Hydronic Air Vent							
Automatic	⅛ in (M)NPT	90 psi	Thermoplastic	Resideo Braukmann	EA122A1002	**3TZ95**	*
	¾ in (M)NPT	150 psi	Brass Shell	Resideo Braukmann	EA79A1004	**3TZ96**	‡
Automatic Float	¾ in (M)NPT	150 psi	Brass and SS	Bell & Gossett	78	**2CMH7**	‡
	¾ in (M)NPT or ½ in (F)NPT	75 psi	Brass and SS	Bell & Gossett	79	**2CMH8**	‡
High Pressure Automatic Float	Inlet Bottom ¾ in (F)NPT, Outlet ½ in (F)NPT, Side ½ in (F)NPT	250 psi	Cast Iron	Bell & Gossett	792	**4NU83**	#

** 230°F. ‡ 250°F. # 300°F.*

Type	Connection	Max. Pressure	Material	Brand	Mfr. Model	Item No.
Steam Air Vent						
Automatic	⅛ in (M)NPT Angled	10 psi	Plated Brass	Bell & Gossett	499170	**4NU93**
	⅛ in (M)NPT Angled	6 psig (Drop Away Pressure)	Plated Brass	Bell & Gossett	40	**4NU94**
	⅛ in (M)NPT Straight	10 psi	Plated Brass	Bell & Gossett	41	**4NU95**
	¼ in (M)NPT Straight	10 psi	Plated Brass	Bell & Gossett	43	**4NU96**
Hydronic Air Eliminators						
Automatic	¾ in (F)NPT	150 psi	Brass	Taco	49-075T-2	**20HJ63**
	¾ in (F) Sweat	150 psi	Brass	Taco	49-075C-2	**20HJ68**
	1 in Sweat	150 psi	Brass	Taco	49-100C-2	**20HJ69**
	1 in (F) NPT	150 psi	Brass	Taco	49-100T-2	**20HJ64**
	1¼ in Sweat	150 psi	Brass	Taco	49-125C-2	**20HJ70**
	1¼ in (F) NPT	150 psi	Brass	Taco	49-125T-2	**20HJ65**
	1½ in Sweat	150 psi	Brass	Taco	49-150C-1	**20HJ71**
	1½ in (F) NPT	150 psi	Brass	Taco	49-150T-1	**20HJ66**
	2 in (F) NPT	150 psi	Brass	Taco	49-200T-2	**20HJ67**

Honeywell Home

High-Capacity Thermostatic Radiator Actuators and Valves

Provide precise, automatic control of room temperature in 2-pipe systems.

Actuators—Continually monitor and adjust room temperature.

Valves—Threaded tailpiece. Parts are replaceable on in-service, in-line valves under pressure.

Programmable Radiator Controller—Energy-saving unit fits most standard radiator valves.

Description	Capillary Length	Temp. Range	Brand	Mfr. Model	Item No.
Actuators					
Integral Sensor & Setpoint	—	43 to 79°F	Honeywell Home	T104A1040	**3UC67**
Remote Sensor & Setpoint	80 in	43 to 79°F	Honeywell Home	T104B1038	**3UC68**
Remote Sensor & Setpoint	80 in	48 to 79°F	—	—	**10L943**
Remote Sensor, Integral Setpoint	80 in	43 to 79°F	Honeywell Home	T104F1512	**3UC69**
Remote Sensor, Integral Setpoint	80 in	48 to 79°F	—	—	**10L944**

3UC67

Body Style	Max. Pressure Water/Steam	Pipe Connec.	Brand	Mfr. Model	Item No.
Valves					
Angle	142 psi/12 psi	½ in FPT	—	—	**10L948**
	150 psi/15 psi	½ in FPT	Honeywell Home	V110E1004	**3UD05**
	150 psi/15 psi	¾ in FPT	Honeywell Home	V110E1012	**3UD06**
	150 psi/15 psi	1 in FPT	Honeywell Home	V110E1020	**3UD07**
Horizontal Angle	142 psi/12 psi	½ in FPT	—	—	**10L951**
	150 psi/15 psi	½ in FPT	Honeywell Home	V110F1002	**3UD08**
	150 psi/15 psi	¾ in FPT	Honeywell Home	V110F1010	**3UD09**
Straight	150 psi/15 psi	½ in FPT	Honeywell Home	V110D1000	**3UD02**
	150 psi/15 psi	¾ in FPT	Honeywell Home	V110D1008	**3UD03**
	150 psi/15 psi	1 in FPT	Honeywell Home	V110D1016	**3UD04**

Temp. Range	Brand	Mfr. Model	Item No.
Programmable Radiator Controller			
32°F to 122°F	Honeywell Home	HR90	**48KT45**

2CMD7

4NU59

2CMG2

4DXN4

4NU76

Bell & Gossett a xylem brand — MEPCO — Nicholson A CIRCOR Energy Brand — Spence

Steam Traps

Control steam and condensate movement to maximize removal of latent heat from steam for efficient system operation. Stainless steel internal components.

Float and Thermostatic—Traps meet Mil. Spec. WW-T-696-E Type VI, Class 1-5, except 402W71.

Inverted Bucket—Inlet and outlet pipe connections are on the same level. Removable covers have valve linkage and seat attached. Meet Mil. Spec. WW-T-696-E Type I, Style B, Class 1-7, except items with Mfr. Model number having a B0 prefix and 402W85.

Thermodynamic—Compact traps handle water hammer and superheat; install easily in any position. Audible discharge makes checking operation simple. For use in kettles, steam main drips, and steam tracing.

Thermostatic—Balanced-pressure stainless steel thermostatic element automatically adjusts to varying pressures. Meet Mil. Spec. A-A-60001 Type V, Style A, Class 1 and 2, except 402W98.

Max. Operating (psi)	(F)NPT Connections	Brand	Mfr. Model	Item No.
Float and Thermostatic (Cast Iron), (2) Pipe, (1) Inlet and (1) Outlet				
15 psi	1½"	Bell & Gossett	FT015C-6	2CMD2
	1½"	Mepco/Dunham Bush	46-715G	402W71
	2"	Bell & Gossett	FT015C-8	2CMD5
	2"	Bell & Gossett	FT015X-8	2CMD7
	2½"	Bell & Gossett	FT015C-10	2CMD6
30 psi	1½"	Bell & Gossett	FT030C-6	2CMD3
75 psi	1¼"	Bell & Gossett	FT075C-5	2CMC9
	1½"	Bell & Gossett	FT075C-6	2CMD4
125 psi	1¼"	Bell & Gossett	FT125C-5	2CMD1
Float and Thermostatic (Cast Iron), (4) Pipe, (2) Inlet and (2) Outlet				
15 psi	¾"	Bell & Gossett	FT015H-3	4NU59
	1"	Bell & Gossett	FT015H-4	4NU60
	1¼"	Bell & Gossett	FT015H-5	4NU64
	1½"	Bell & Gossett	FT015H-6	4NU69
	2"	Bell & Gossett	FT015H-8	4NU70
30 psi	¾"	Bell & Gossett	FT030H-3	4NU61
	1"	Bell & Gossett	FT030H-4	2CMC5
	1¼"	Bell & Gossett	FT030H-5	2CMC8
75 psi	¾"	Bell & Gossett	FT075H-3	4NU62
	1"	Bell & Gossett	FT075H-4	2CMC6
125 psi	¾"	Bell & Gossett	FT0125H-3	4NU63
	1"	Bell & Gossett	FT125H-4	2CMC7
Inverted Bucket (Cast Iron)				
125 psi	½"	Bell & Gossett	B1125S-2	4NU78
	¾"	Bell & Gossett	B1125S-3	4NU71
Inverted Bucket (Cast Iron), In Body, In Line				
30 psi	¾"	Bell & Gossett	B1030S-3	2CMG5
75 psi	½"	Bell & Gossett	B1075S-2	2CMG4
	¾"	Bell & Gossett	B1075S-3	2CMG6
80 psi	½"	Bell & Gossett	B0080A-2	2CMD8
	½"	Bell & Gossett	B0080S-2	2CME5
	¾"	Bell & Gossett	B0080A-3	2CME2
	¾"	Bell & Gossett	B0080S-3	2CME8
125 psi	½"	Bell & Gossett	B0125A-2	2CMD9
	½"	Bell & Gossett	B0125S-2	2CME6
	¾"	Bell & Gossett	B0125A-3	2CME3
	¾"	Bell & Gossett	B0125S-3	2CME9
150 psi	½"	Bell & Gossett	B0150A-2	2CME1
	½"	Bell & Gossett	B0150S-2	2CME7
	¾"	Bell & Gossett	B0150A-3	2CME4
	¾"	Bell & Gossett	B0150S-3	2CMG1
180 psi	¾"	Bell & Gossett	B1180S-3	2CMG7
250 psi	½"	Bell & Gossett	B1030S-2	2CMG2
Inverted Bucket (Cast Iron), Straight				
200 psi	¾"	Mepco/Dunham Bush	IB12-3-30G	402W85
Thermodynamic (Stainless Steel), Straight				
600 psi	⅜"	Nicholson	NTD600-N1B9A	4DXL7
	½"	Nicholson	NTD600-N1C9A	4DXL8
	¾"	Nicholson	NTD600-N1D9A	4DXL9
	1"	Nicholson	NTD600-N1E9A	4DXN1
Thermodynamic (Stainless Steel), Straight, with Strainer				
600 psi	⅜"	Nicholson	NTD600-N1B9S	4DXN2
	½"	Nicholson	NTD600-N1C9S	4DXN3
	¾"	Nicholson	NTD600-N1D9S	4DXN4
	1"	Nicholson	NTD600-N1E9S	4DXN5
Thermostatic (Brass), Angle				
25 psi	½"	Bell & Gossett	17-C-A-2-25	4NU75
	½"	Mepco/Dunham Bush	1E-APG	402W98
	¾"	Bell & Gossett	17C-A-3-25	2CMG8
	1"	Bell & Gossett	17C-A-4-25	2CMG9
125 psi	½"	Bell & Gossett	8C-A-2-125	4NU72
	¾"	Bell & Gossett	8C-A-3-125	4NU73
	1"	Bell & Gossett	9C-A-4-125	2CMH2
Thermostatic (Brass), Straightaway				
25 psi	¾"	Bell & Gossett	17C-S-3-25	2CMH1
125 psi	¾"	Bell & Gossett	8C-S-3-125	4NU74
Thermostatic (Brass), Straightaway Swivel				
25 psi	½"	Bell & Gossett	17C-S-2-25	4NU76
Thermostatic (Brass), Vertical				
25 psi	½"	Bell & Gossett	17C-V-2-25	4NU77

For Use With	Includes	Brand	Mfr. Model	Item No.
Replacement Parts				
Modules				
Barnes And Jones 122	—	Bell & Gossett	600053	13E341
D-B And Mepco 1C/1E		Bell & Gossett	600052	13E342
Hoffman 17C		Bell & Gossett	600084	13E339
TB-25/TH-25/TS-25,Illinois 1G		Bell & Gossett	600056	13E340
Warren Webster 02H/502		Bell & Gossett	600250	13E343
Float and Thermostatic (Cast Iron)				
FT015H-3, FT015H-4	Cover, Gasket, Float, Pin, & Element	Bell & Gossett	405594	2CMH9
2CMC5, 4NU61, FT030H-3, FT030H-4		Bell & Gossett	405598	2CMJ4
4NU64, FT015H-5		Bell & Gossett	405595	2CMJ1
4NU69, FT015H-6		Bell & Gossett	405596	2CMJ2
4NU70, FT015H-8		Bell & Gossett	405597	2CMJ3
B1030S-2, B1030S-3, FT030H-3, FT030H-4, FT030H-5, FTH-3,4,5 / B1	Cover Gasket	Bell & Gossett	405601	2CMJ7
4NU69, FTH-6		Bell & Gossett	405602	2CMJ8
4NU70, FTH-8		Bell & Gossett	405603	2CMJ9
2CMD2, 2CMD5, 2CMD6, 2CMD7, 4NU59, 4NU60, 4NU64, 4NU69, 4NU70	Thermostatic Element	Bell & Gossett	405604	2CMK1
2CMC8, FT030H-5	Cover Gasket, Float, Pin, & Element	Bell & Gossett	405606	2CMK3
2CMD2, FT015C-6		Bell & Gossett	405608	2CMK4
2CMD4, FT075C-6		Bell & Gossett	405610	2CMK5
2CMD1, 2CMD2, 2CMD3, 2CMD4, 2CMD9, FTC-6	Cover Gasket	Bell & Gossett	405634	2CML5
2CMD5, FTC-8		Bell & Gossett	405635	2CML6
2CMD6, FTC10		Bell & Gossett	405636	2CML7
2CMD7, FTX-8		Bell & Gossett	405637	2CML8
4NU62, FT075H-3, FT075H-4	—	Bell & Gossett	405599	2CMJ5
FT0125H-3, FT125H-3, FT125H-4		Bell & Gossett	405600	2CMJ6
Inverted Bucket (Cast Iron)				
2CMG2, 2CMG5, B1030-2, B1030-3	Cover Gasket, Bucket, Pin, & Seat	Bell & Gossett	405619	2CML9
20 psi Inverted Bucket, B0020A, B0020S	—	Bell & Gossett	405614	2CMP7
4NU71, 4NU78, B1125-2, B1125-3		Bell & Gossett	405613	2CMK9
B0		Bell & Gossett	405618	2CML4
B1075-2, B1075-3		Bell & Gossett	405620	2CMN1
Thermodisc (Stainless Steel)				
4NU65, TD6523	5 Replacement Discs	Bell & Gossett	405622	2CMN3
Thermostatic (Brass)				
17-C-A-2-25, 17C-A-3-25, 17C-A-4-25, 17C-S-2-25, 17C-S-3-25, 17C-V-2-25	Thermostatic Element	Bell & Gossett	405628	2CMN9
Pilot Regulator				
SPS Spring Pilot, 4NU80, 4NU81, 4NU82	1 Diaphragm Screw, 1 Pusher Plate, 1 Valve Spring, 1 Seat Ring, 1 Gasket, 1 Pressure Plate, 3 Diaphragms (use only 2 pieces on SPS-30 & SPS-60), 1 Stem, 1 Screen, 1 Disc, & 2 Stem Nuts	Spence	07-04164-00	2CMP2
Vacuum Breaker (Brass)				
4NU79, 62	One O-Ring	Bell & Gossett	405633	2CMP5

Spence

Pilot Regulators

Pressure pilot springs are interchangeable. Feature stainless steel components and a removable strainer. Max. operating pressure: 250 psi.

Pressure Adjustment Range	Pilot Valve Spring Color	Mfr. Model	Item No.
2 to 30 psi	Blue	SPS-30	4NU80
5 to 60 psi	Red	SPS-60	4NU81
20 to 175 psi	Gold	SPS-175	4NU82

4NU84

"Y" Strainers

Bell & Gossett a xylem brand

Remove harmful pipeline debris to safeguard valves and pumps. Screen size: 20. Rated for 400 psi water. Steam pressure: cast iron 250 psi, cast brass 300 psi.

Connec. Type	Housing Material	Mfr. Model	Item No.
FNPT x FNPT	Cast Iron	415C - ½"	4NU84
		415C - ¾"	4NU85
		415C - 1"	4NU86
		415C - 1¼"	4NU87
		415C - 1½"	4NU88
		415C - 2"	4NU89
	Brass	420C - ½"	4NU90
		420C - ¾"	4NU91
		420C - 1"	4NU92

Vacuum Breaker

Bell & Gossett a xylem brand

Improves condensate removal and prevents poor equipment performance. Adjustable from ¼" to 20" Hg vacuum. Rated for 150 psi. Max. temp.: 366°F.

Size	Connection Type	Material of Construction	Mfr. Model	Item No.
¾ in	MNPT	Brass	62	4NU79

Universal Electronic Water Level Controllers

Waterline Controls®

4GHK3

- NEMA 4X enclosure
- Enclosure is 8¾"H x 10½"W x 6"D

Provide precise control that compensates for wave action and manages water levels to within ⅛" of operating range. Sensor rods will not plate foul or deteriorate, no matter the water quality. Digital circuitry easily integrates with existing building automation systems. Modular, quick-connect design. Control panel has water level and fault indicators and diagnostic self-test button. 15-yr. duty cycle. For cooling towers, water and stormwater holding and storage tanks, irrigation lakes, and sewage water systems. Each includes 20"L x 3" dia. PVC pipe containing ¼" stainless steel probes, 50-ft. sensor wire, mounting bracket, and U-bolts.

			Input Voltage			
			110V AC 50/60 Hz		220V AC 50/60Hz	
Sensors Incl.	Operating Range	Switch Type	Mfr. Model	Item No.	Mfr. Model	Item No.
Fill Height Only	1 ½ in	SPST	WLC3000-120VAC	**4GHK3**	WLC3000-220VAC	**4GHK8**
Fill Height w/ High Level Alarm	1 ½ and 3 in	(2)SPST	WLC4000-120VAC	**4GHK4**	WLC4000-220VAC	**4GHK9**
Fill Height w/ Low Level Alarm	½ and 6 in	(3)SPST	WLC4500-120VAC	**4GHK5**	—	—
Fill Height w/ High & Low Level Alarm	1 ½, 3, and 6 in	(3)SPST	WLC5000-120VAC	**4GHK6**	WLC5000-220VAC	**4GHL1**
Fill Height w/ High & Low Level Alarm & Low Heat Cut Off	1 ½, 3, 6, and 10 in	(4)SPST	WLC6000-120VAC	**4GHK7**	WLC6000-220VAC	**4GHL2**

Shell and Tube Heat Exchangers

Standard Xchange®

BRASS

- Max. working pressure: shell side 300 psi; tube side 150 psi
- Max. temp.: shell side 300°F; tube side 300°F

316 STAINLESS STEEL

- Max. working pressure: shell side 225 psi; tube side 150 psi
- Max. temp.: shell side 425°F; tube side 425°F

						BRASS		316 STAINLESS STEEL	
Max. BtuH (Water to Water)*	Max. BtuH (Oil to Water)**	Connection	H (in.)	L (in.)	W (in.)	Mfr. Model	Item No.	Mfr. Model	Item No.
240,000	12,700 BtuH	Shell 1 in NPT, Tube ¾ in NPT	4.8 in	10.375 in	4.5 in	SN503003008005	**5TNV3**	SN516003008006	**5TNW4**
270,000	28,000 BtuH	Shell 1 in NPT, Tube ¾ in NPT	4.8 in	17.125 in	4.5 in	SN503003014005	**5TNV4**	SN516003014006	**5TNW5**
330,000	56,000 BtuH	Shell 1 in NPT, Tube ¾ in NPT	4.8 in	27.125 in	4.5 in	SN503003024005	**5TNV5**	SN516003024006	**5TNW6**
525,000	42,700 BtuH	Shell 1 ½ in NPT, Tube 1 in NPT	7 in	18.812 in	6.75 in	SN503005014005	**5TNV6**	SN516005014006	**5TNW7**
1,350,000	134,000 BtuH	Shell 2 in NPT, Tube 1 ½ in NPT	8.375 in	29.125 in	7.75 in	SN503006024005	**5TNV7**	SN516006024006	**5TNW8**
1,600,000	239,000 BtuH	Shell 2 in NPT, Tube 1 ½ in NPT	8.375 in	41.125 in	7.75 in	SN503006036005	**5TNV8**	SN516006036006	**5TNW9**
2,400,000	280,000 BtuH	Shell 3 in NPT, Tube 2 in NPT	11 in	30.625 in	10.5 in	SN503008024005	**5TNV9**	SN516008024006	**5TNX0**
2,750,000	400,000 BtuH	Shell 3 in NPT, Tube 2 in NPT	11 in	42.625 in	10.5 in	SN503008036005	**5TNW0**	SN516008036006	**5TNX1**
3,100,000	516,000 BtuH	Shell 3 in NPT, Tube 2 in NPT	11 in	54.625 in	10.5 in	SN503008048005	**5TNW1**	SN516008048006	**5TNX2**
3,450,000	631,000 BtuH	Shell 3 in NPT, Tube 2 in NPT	11 in	66.625 in	10.5 in	SN503008060005	**5TNW2**	SN516008060006	**5TNX3**
3,800,000	649,000 BtuH	Shell 3 in NPT, Tube 2 in NPT	11 in	78.625 in	10.5 in	SN503008072005	**5TNW3**	SN516008072006	**5TNX4**

** Based on cooling 180°F water with 85°F cooling water and 10 psi pressure differential. ** Heat removed for max. flow (150 SSU oil @ 100°F) exiting @ 120°F with cooling water @ 85°F and 10°F rise.*

Brazed Plate Heat Exchangers

Bell & Gossett
a xylem brand

- Max. pressure: 435 psig design (6RGF1 to 6RGF6 are 390 psig design)
- Temp. range: -40° to 300°F

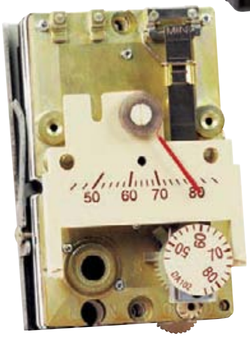
2NXP9

					ASTM 316L STAINLESS STEEL, COPPER				316L STAINLESS STEEL, NICKEL BRAZE			
Max. BtuH* (Water to Water)	Max. BtuH** (Oil to Water)	Max. BtuH† (R22 to Water)	Connection	W (in.)	H (in.)	L (in.)	Mfr. Model	Item No.	H (in.)	L (in.)	Mfr. Model	Item No.
Oil												
135,000	12,725	—	1 in MNPT	4.37 in	12.2 in	1.37 in	BP410-10-LCA	**2NXR4**	12.2 in	1.64 in	BPN410-10 LCA	**6RGD9**
350,000	25,450	—	1 in MNPT	4.37 in	12.2 in	2.34 in	BP410-20-LCA	**2NXR5**	12.2 in	2.61 in	BPN410-20 LCA	**6RGE0**
500,000	50,900	—	1 in MNPT	4.37 in	12.2 in	3.31 in	BP410-30-LCA	**2NXR6**	12.2 in	3.58 in	BPN410-30 LCA	**6RGE1**
700,000	76,350	—	1 in MNPT	4.37 in	12.2 in	4.28 in	BP410-40-LCA	**2NXR7**	12.2 in	4.55 in	BPN410-40 LCA	**6RGE2**
1,200,000	127,250	—	1 in MNPT	4.37 in	12.2 in	6.22 in	BP410-60-LCA	**2NXR9**	12.2 in	6.49 in	BPN410-60 LCA	**6RGE4**
1,100,000	190,875	—	2 in MNPT	7.48 in	24.3 in	3.853 in	BP422-30-LCA	**2NXT7**	24.3 in	4.123 in	BPN422-30 LCA	**6RGF1**
2,000,000	279,950	—	2 in MNPT	7.48 in	24.3 in	6.155 in	BP422-50-LCA	**2NXT9**	24.3 in	6.425 in	BPN422-50 LCA	**6RGF3**
2,500,000	281,750	—	2 in MNPT	7.48 in	24.3 in	7.306 in	BP422-60-LCA	**2NXU1**	24.3 in	7.576 in	BPN422-60 LCA	**6RGF4**
5,900,000	509,000	—	2 in MNPT	7.48 in	24.3 in	9.608 in	BP422-80-LCA	**2NXU2**	24.3 in	9.878 in	BPN422-80 LCA	**6RGF5**
5,900,000	636,250	—	2 in MNPT	7.48 in	24.3 in	11.91 in	BP422-100-LCA	**2NXU3**	24.3 in	12.18 in	BPN422-100 LCA	**6RGF6**
Oil, Double Wall												
85,835	32,000	—	1 in MNPT	4.37 in	12.2 in	2.65 in	BPDW410-20 LCA	**6RGC2**	—	—	—	—
134,881	50,000	—	1 in MNPT	4.37 in	12.2 in	3.78 in	BPDW410-30 LCA	**6RGC3**	—	—	—	—
139,610	35,000	—	1 in MNPT	4.37 in	20.7 in	1.37 in	BPDW415-10 LCA	**6RGC6**	—	—	—	—
183,929	65,000	—	1 in MNPT	4.37 in	12.2 in	4.91 in	BPDW410-40 LCA	**6RGC4**	—	—	—	—
282,024	98,000	—	1 in MNPT	4.37 in	12.2 in	7.16 in	BPDW410-60 LCA	**6RGC5**	—	—	—	—
317,243	78,000	—	1 in MNPT	4.37 in	20.7 in	2.65 in	BPDW415-20 LCA	**6RGC7**	—	—	—	—
492,134	123,000	—	1 in MNPT	4.37 in	20.7 in	3.78 in	BPDW415-30 LCA	**6RGC8**	—	—	—	—
661,587	170,000	—	1 in MNPT	4.37 in	20.7 in	4.91 in	BPDW415-40 LCA	**6RGC9**	—	—	—	—
831,000	210,000	—	1 in MNPT	4.37 in	20.7 in	6.04 in	BPDW415-50 LCA	**6RGD0**	—	—	—	—
995,110	242,000	—	1 in MNPT	4.37 in	20.7 in	7.16 in	BPDW415-60 LCA	**6RGD1**	—	—	—	—
1,225,875	320,000	—	1 in MNPT	4.37 in	20.7 in	9.42 in	BPDW415-80 LCA	**6RGD2**	—	—	—	—
1,452,663	395,000	—	1 in MNPT	4.37 in	20.7 in	11.67 in	BPDW415-100 LCA	**6RGD3**	—	—	—	—
1,566,533	450,000	—	1 in MNPT	4.37 in	20.7 in	13.92 in	BPDW415-120 LCA	**6RGD4**	—	—	—	—
Refrigerant												
—	—	6,000	1 in MNPT, ½ in SW	4.37 in	12.2 in	1.37 in	BPR410-10-LCA	**2NXU4**	12.2 in	1.64 in	BPNR410-10 LCA	**6RGF7**
—	—	12,000	1 in MNPT, ½ in & ⅞ in SW	4.37 in	12.2 in	1.76 in	BPR410-14-LCA	**2NXU5**	12.2 in	2.028 in	BPNR410-14 LCA	**6RGF8**
—	—	30,000	1 in MNPT, ½ in & ⅞ in SW	4.37 in	12.2 in	3.7 in	BPR410-34-LCA	**2NXU6**	12.2 in	3.968 in	BPNR410-34 LCA	**6RGF9**
—	—	60,000	1 in MNPT, ⅞ in SW	4.37 in	20.7 in	3.12 in	BPR415-28-LCA	**2NXU7**	20.7 in	3.386 in	BPNR415-28 LCA	**6RGG0**
—	—	90,000	1 in MNPT, ⅞ in SW	4.37 in	20.7 in	4.47 in	BPR415-42-LCA	**2NXU8**	20.7 in	4.744 in	BPNR415-42 LCA	**6RGG1**
—	—	120,000	1 in MNPT, ⅞ in SW	4.37 in	20.7 in	6.67 in	BPR415-56-LCA	**2NXU9**	20.7 in	6.102 in	BPNR415-56 LCA	**6RGG2**
—	—	204,000	2 in MNPT, 1⅜ in & 1⅝ in SW	7.48 in	24.3 in	6.155 in	BPR422-50-LCA	**2NXV1**	24.3 in	6.425 in	BPNR422-50 LCA	**6RGG3**
Water												
45,000	—	—	1 in MNPT	4.37 in	12.2 in	2.34 in	BP411-20-LCA	**2NXT1**	—	—	—	—
60,000	—	—	¾ in MNPT	3.18 in	8.2 in	1.21 in	BP400-10-LCA	**2NXP9**	8.45 in	1.45 in	BPN400-10 LCA	**6RGD5**
150,000	—	—	¾ in MNPT	3.18 in	8.2 in	2.02 in	BP400-20-LCA	**2NXR1**	8.45 in	2.23 in	BPN400-20 LCA	**6RGD6**
225,000	—	—	¾ in MNPT	3.18 in	8.2 in	2.83 in	BP400-30-LCA	**2NXR2**	8.45 in	3.01 in	BPN400-30 LCA	**6RGD7**
350,000	—	—	¾ in MNPT	3.18 in	8.2 in	3.64 in	BP400-40-LCA	**2NXR3**	8.45 in	3.79 in	BPN400-40 LCA	**6RGD8**
70,000	—	—	1 in MNPT	4.37 in	12.2 in	3.31 in	BP411-30-LCA	**2NXT2**	12.2 in	3.58 in	BPN411-30 LCA	**6RGE6**
180,000	—	—	1 in MNPT	4.37 in	12.2 in	2.34 in	BP412-20-LCA	**2NXT3**	12.2 in	2.61 in	BPN412-20 LCA	**6RGE7**
295,000	—	—	1 in MNPT	4.37 in	12.2 in	3.31 in	BP412-30-LCA	**2NXT4**	12.2 in	3.58 in	BPN412-30 LCA	**6RGE8**
350,000	—	—	1 in MNPT	4.37 in	—	—	—	—	12.2 in	2.61 in	BPN411-20 LCA	**6RGE5**
415,000	—	—	1 in MNPT	4.37 in	12.2 in	4.28 in	BP412-40-LCA	**2NXT5**	12.2 in	4.55 in	BPN412-40 LCA	**6RGE9**
535,000	—	—	1 in MNPT	4.37 in	12.2 in	5.25 in	BP412-50-LCA	**2NXT6**	12.2 in	5.52 in	BPN412-50 LCA	**6RGF0**
900,000	—	—	1 in MNPT	4.37 in	12.2 in	5.25 in	BP410-50-LCA	**2NXR8**	12.2 in	5.52 in	BPN410-50 LCA	**6RGE3**
1,500,000	—	—	2 in MNPT	7.48 in	24.3 in	5.004 in	BP422-40-LCA	**2NXT8**	24.3 in	5.274 in	BPN422-40 LCA	**6RGF2**

** 180°F boiler water inlet, 130°F outlet, 50°F domestic water inlet, 140°F outlet. ** ISO VG_46 oil cooled to 125°F using a 2:1 oil-to-water flow rate and 85°F water. † Cool 2.4 gpm per ton of water from 54° to 44°F using R22 at 35° and 8°F superheat.*

279A25

38Y185



4E666

SIEMENS Honeywell Johnson Controls

Pneumatic Transmitters and Thermostats

Temperature Transmitters—Devices monitor temperature in a variety of applications, particularly those requiring indication with a receiver-controller.

Thermostats—Designed to control pneumatic valves and damper actuators in heating and cooling applications. Cover not included unless specified.

Description	RA/DA	Max. Air Pressure	Temp. Control Range	Capillary Length	Sensing Bulb Dia.	Sensing Bulb Length	Brand	Mfr. Model	Item No.
Pneumatic Temperature Transmitters									
1- or 2-Pipe, Rigid Bulb	DA	30 psi	30° to 180°F	—	7/16 in	1 ft 6 in	Powers Controls	356-0750	**4E683**
1-Pipe, Duct Mount, Rigid Bulb	DA	25 psi	25° to 125°F	—	11/32 in	1 ft 3 in	Honeywell	LP914A1144	**279A21**
	DA	25 psi	-40° to 160°F	—	11/32 in	1 ft 3 in	Honeywell	LP914A1003	**279A26**
1-Pipe, Rigid Bulb	DA	25 psi	40° to 140°F	36 in	1/32 in	1 ft 6 1/4 in	Honeywell	LP907A1002	**3UC01**
	DA	30 psi	0° to 100°F	—	1/4 in	9 in	Powers Controls	184-0028	**2KGR1**
1-Pipe, Well Mount, Rigid Bulb	DA	25 psi	-40° to 160°F	—	11/32 in	7 in	Honeywell	LP914A1060	**3UC06**
	DA	25 psi	40° to 240°F	—	11/32 in	7 in	Honeywell	LP914A1052	**279A24**
2-Pipe, Single Temp., Liquid Filled, Remote Bulb	DA	25 psi	65° to 85°F	36 in	3/8 in	9 5/8 in	Honeywell	LP916A1134	**279A22**
	DA	25 psi	65° to 85°F	36 in	1/2 in	5 7/8 in	Honeywell	LP916A1019	**279A23**
	DA	30 psi	30° to 150°F	60 in	3/8 in	5 1/4 in	Honeywell	LP920A1039	**279A25**
	DA & RA	25 psi	65° to 85°F	36 in	3/8 in	9 5/8 in	Honeywell	LP916B1082	**3UC12**
Liquid-Filled Bulb	DA	25 psi	0° to 100°F	5 1/2 in	1/4 in	4 in	Johnson Controls	T-5210-1002	**38Y185**
	DA	25 psi	40° to 240°F	5 1/2 in	1/4 in	4 in	Johnson Controls	T-5210-1004	**38Y186**
	DA	25 psi	-40° to 160°F	48 in	1/4 in	4 in	Johnson Controls	T-5210-1113	**38Y188**
	DA	25 psi	0° to 100°F	48 in	1/4 in	4 in	Johnson Controls	T-5210-1114	**38Y189**
	DA	30 psi	60° to 85°F	48 in	3/8 in	3 1/2 in	Powers Controls	188-0031	**40PN39**
	DA & RA	30 psi	60° to 85°F	48 in	3/8 in	3 1/2 in	Powers Controls	188-0030	**40PN38**
Liquid-Filled Capillary	DA	25 psi	0° to 100°F	96 in	1/4 in	4 in	Johnson Controls	T-5210-1009	**38Y187**
	DA	25 psi	0° to 100°F	204 in	1/4 in	4 in	Johnson Controls	T-5210-1118	**38Y190**
Pneumatic Low Limit Controllers									
1-Pipe, Duct Mount, Liquid Filled Capillary	Proportional	25	0 to 270	—	—	96	Johnson Controls	T-3610-1001	**38Y130**
1-Pipe, Well Mount, Rigid Bulb	Proportional	25	0 to 270	—	—	18	Johnson Controls	T-3610-1002	**38Y131**

Description	RA/DA	Max. Air Pressure	Temp. Control Range	Mfr. Model	Item No.
Pneumatic Thermostats, Honeywell					
1- or 2-Pipe, Single or 2 Temp.	DA	25 psi	60° to 90°F	TP970A2004	**3UC87**
	DA	25 psi	60° to 90°F	TP970A2259	**3UC89**
	RA	25 psi	60° to 90°F	TP970B2002	**3UC90**
	DA	25 psi	Day: 59° to 90°F, Night: 50° to 80°F	TP971A2003	**279A27**
	DA and RA	25 psi	60° to 90°F	TP972A2002	**3UC95**
	DA and RA	25 psi	60° to 90°F	TP973A2076	**3UC99**
Pneumatic Thermostats, Johnson Controls					
2-Pipe, Horizontal	DA	25 psi	55° to 85°F	T-4002-201	**38Y156**
	RA	25 psi	55° to 85°F	T-4002-202	**38Y157**
2-Pipe, Vertical	DA	25 psi	55° to 85°F	T-4002-203	**38Y158**
	RA	25 psi	55° to 85°F	T-4002-204	**38Y159**
2-Pipe, Horizontal	DA	25 psi	15° to 30°C	T-4002-9008	**38Y170**
	RA	25 psi	12° to 30°C	T-4002-9009	**38Y171**
2-Pipe, Vertical	DA	25 psi	55° to 85°F	T-4002-9012	**38Y172**
2-Pipe, Horizontal	DA	25 psi	55° to 85°F	T-4054-1	**38Y173**
2-Pipe, 2 Temp., Horizontal	DA	25 psi	55° to 85°F	T-4506-201	**38Y174**
2-Pipe, 2 Temp., Vertical	DA	25 psi	55° to 85°F	T-4506-202	**38Y175**
2-Pipe, 2 Temp., Horizontal	DA	25 psi	55° to 85°F	T-4506-203	**38Y176**
2-Pipe, 2 Temp., Vertical	DA	25 psi	55° to 85°F	T-4506-204	**38Y177**
2-Pipe, 2 Temp., Horizontal	RA	25 psi	55° to 85°F	T-4506-217	**38Y178**
	DA	25 psi	55° to 85°F	T-4516-201	**38Y179**
2-Pipe, Horizontal	DA	25 psi	55° to 85°F	T-4752-201	**38Y180**
	RA	25 psi	55° to 85°F	T-4752-205	**38Y181**
	DA and RA	25 psi	55° to 85°F	T-4756-201	**38Y183**
	RA	25 psi	55° to 85°F	T-4756-205	**38Y184**
Pneumatic Thermostats, Siemens & Powers Controls					
1-Pipe, Single Temp.	DA	30 psi	45° to 85°F	192-200	**2KGP9**
2-Pipe, Single Temp.	DA	30 psi	45° to 85°F	192-202	**4E666**
	RA	30 psi	45° to 85°F	192-203	**4E667**
Dual Setpoint, Day/Night	DA	30 psi	45° to 85°F	192-204	**4E673**
2-Pipe Heat/Cool, 2 Temp.	RA	30 psi	45° to 85°F	192-208	**4E670**
2-Pipe, Single Temp.	DA	30 psi	7° to 30°C	192-222	**40PN28**
	DA	30 psi	60° to 85°F	832-0120	**2KGP7**
Pneumatic Thermostat Conversion Kits, Honeywell					
1- or 2-Pipe, Single or 2 Temp.	DA	25 psi	60° to 90°F	TP970A2145	**3UC88**
	RA	25 psi	60° to 90°F	TP970B2077	**3UC91**
	DA and RA	25 psi	60° to 90°F	TP972A2192	**279A28**
Pneumatic Thermostat Conversion Kits, Johnson Controls					
2-Pipe Kit, White Cover	DA	25 psi	55° to 85°F	T-4002-301	**38Y160**
	RA	25 psi	55° to 85°F	T-4002-302	**38Y161**
2-Pipe Kit, Beige Cover	DA	25 psi	55° to 85°F	T-4002-303	**38Y162**
	RA	25 psi	55° to 85°F	T-4002-304	**38Y163**
Pneumatic Thermostat Conversion Kits, Siemens & Powers Controls					
Retro-Fit Kit, 2-Pipe, Single Setpoint	DA	30 psi	45° to 85°F	192-840	**4E668**
	RA	30 psi	45° to 85°F	192-841	**4E669**
Retro-Fit Kit, 2-Pipe, Heat/Cool Dual Setpoint	DA and RA	30 psi	45° to 85°F	194-3083	**4E672**

Description	Mfr. Model	Item No.
Accessories, Honeywell		
Modernization Kit w/ Universal Adapter & Cover, Prepares 3-Pipe Day/Night T-Stat for TP971C T-Stat	14002573-001	**3TZ77**
TRADELINE® In-Line Restrictor, 0.005 Restrictor 1/4 x 5/32 x 1/4"	14002913-001	**3TZ78**
TRADELINE® In-Line Restrictor, 0.007 Restrictor 1/4 x 1/4 x 1/4"	14002913-002	**3TZ79**
TRADELINE® Satin Chrome T-Stat Cover Kit (Incl. Setpoint Slot Cover & 6 Window Inserts)	14004406-910	**3TZ82**
TRADELINE® Beige T-Stat Cover Kit (Incl. Setpoint Slot Cover & 6 Window Inserts)	14004407-910	**3TZ83**
TRADELINE® T-Stat Tool Kit, Incl. Gage Port Needle, T-Stat Tool, & Calibration Wrench	AK3863	**3TZ88**
TRADELINE® T-Stat Calibration Tool & Cover Remover	CCT735A	**3TZ89**
Pneumatic Fitting Kit for Replacement & Repair of Pneumatic Devices	MJK100	**3UC20**
Pneumatic Calibration Kit, Incl. Pressure Bulb Assy., Tubing, In-Line Gage Tee, Gages, Slide Rule, & T-Stat Tools	MQP800	**3UC32**
Accessories, Johnson Controls		
Clear T-Stat Plastic Guard, 7"L x 6"H x 3"D	GRD10A-608	**38Y120**
Beige T-Stat Cover, Horizontal, Blank, 2 in L x 3 in H x 2 in D	T-4000-2138	**38Y134**
Beige T-Stat Cover, Horizontal, No Thermometer, No Windows, 2 in L x 3 in H x 2 in D	T-4000-2139	**38Y135**
Beige T-Stat Cover, Horizontal, No Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-2141	**38Y136**
Beige T-Stat Cover, Horizontal, Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-2142	**38Y137**
Beige T-Stat Cover, Vertical, No Thermometer, No Windows, 2 in L x 3 in H x 2 in D	T-4000-2144	**38Y138**
Beige T-Stat Cover, Vertical, No Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-2145	**38Y139**
Beige T-Stat Cover, Vertical, Thermometer, 2 in L x 3 in H x 2 in D	T-4000-2146	**38Y140**
White T-Stat Cover, Horizontal, No Thermometer, No Windows, 2 in L x 3 in H x 2 in D	T-4000-3139	**38Y141**
White T-Stat Cover, Horizontal, No Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-3141	**38Y142**
White T-Stat Cover, Horizontal, Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-3142	**38Y143**
White T-Stat Cover, Vertical, No Thermometer, No Windows, 2 in L x 3 in H x 2 in D	T-4000-3144	**38Y144**
White T-Stat Cover, Vertical, No Thermometer, Single Window, 2 in L x 3 in H x 2 in D	T-4000-3145	**38Y145**
Beige T-Stat Conversion Kit, 1 in L x 5 in H x 6 in D	T-4000-605	**38Y146**
Beige T-Stat Conversion Kit, 1 in L x 2½ in H x 5 in D	T-4000-610	**38Y147**
Beige T-Stat Conversion Kit, 1 in L x 4 in H x 5 in D	T-4000-611	**38Y148**
White T-Stat Conversion Kit, 1 in L x 5 in H x 6 in D	T-4000-630	**38Y152**
Beige T-Stat Cover, 2 in L x 3 in H x 2 in D	T-4756-1738	**38Y182**
Accessories, Siemens & Powers Controls		
Beige Plastic Cover for Single-Temperature T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Exposed	192-252	**2KGP8**
Beige Plastic Cover for Heat/Cool T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Concealed	192-256	**4E679**
Beige Plastic Cover for Day/Night T-Stats; Adj. Setpoint, Indicator Setpoint, & Chassis Concealed	192-262	**4E680**
Calibration & Cover Screw Wrench with Pocket Clip; 5 Per Pack	192-632	**4E891**
T-Stat Conversion Kit, DA, 2-Pipe, Max. Air Pressure: 30 psi	192-850	**40PN29**

Honeywell | Johnson Controls | SIEMENS

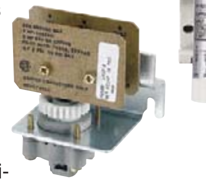
Pneumatic Switches, Transducers, Relays, and Valves

Pneumatic Switches—Feature electric pneumatic relays rated at 120V.

Pressure Control—Low pressure control is designed for applications in which a pneumatic air signal is used to operate an electric or electronic device. Applications include pressure-electric switches in pneumatic systems, control of pumps or small air compressors, and pressure-electric interlock of fluid flow systems.

Relays—Perform various functions in a control loop.

Solenoid Air Valves—Commonly used to alternately apply pressure to and exhaust pressure from pneumatically controlled devices.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278Y48

4E715

Description	Max. Safe Air PSI	Control Air Pressure	Air Connec.	H (in.)	W (in.)	D (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
Pneumatic Switches										
Pneumatic Signal to Activate Electric Switch, Surface Mount, with Case	30	2 to 24 psi	Barb Fitting for 1/4 OD Plastic Tubing	5 3/8 in	3 3/8 in	2 in	—	Honeywell	P658A1013	**3UC33**
Pneumatic Signal to Activate Electric Switch, Panel Mount, w/o Case	30	2 to 24 psi		3 7/16 in	3 1/4 in	1 3/4 in	—	Honeywell	P658B1012	**3UC34**
Manual Diverting, Bleed or Blocking	30	0 to 18 psi	5/32 (4 mm) Barbs	1 1/2 in	1 1/2 in	3 in	—	Honeywell	SP470A1000	**279A14**
Minimum Position	30	Main 18 psi / Pilot 3 to 15 psi		2 1/4 in	2 1/2 in	3 1/2 in	—	Honeywell	SP970A1005	**279A13**
Pressure Control										
Single Stage	—	3 to 20 psi	1/8 in Barbed	3 7/8	2 3/32	3 3/16	—	Johnson Controls	P10BC-7C	**40G329**
Transducers										
Electronic Pneumatic Transducer	25	0.5 to 19 psi	5/32 in or 1/4 in Barb	5 in	3 in	3 in	—	Johnson Controls	EP-8000-2	**36P580**
	25	18 to 25 psi		3 11/32 in	1 25/32 in	2 in	—	Johnson Controls	EP-8000-1	**20RG01**
	30	0 to 18 psi		2 7/16 in	3 5/8 in	2 in	—	Honeywell	RP7517B1016	**278Y48**
Relays										
Positioning Switch	30	0 to 30 psi	1/8 NPT Female	1 5/8 in	1 1/2 in	2 3/4 in	—	Siemens	141-0600	**4E715**
Electric Pneumatic	50	0 to 20 psi	Barb for 1/4 O.D Plastic Tubing	2 7/8 in	3 13/16 in	1 1/4 in	7/8 in	Honeywell	RP419A1057	**60RC48**
Pneumatic Control Selector	30	0 to 18 psi	Barb Type for 5/32 OD Plastic Tubing	—	—	1 in	1 1/2	Honeywell	RP470A1003	**279A15**
	30	3 to 15 psi		1 1/2 in	1 13/16 in	2 3/4 in	—	Honeywell	RP471A1002	**279A16**
Pneumatic Switching Control	30	3 to 7 psi		—	—	2 1/4 in	1 1/2	Honeywell	RP670A1001	**279A19**
	30	13 to 17 psi		—	—	2 3/4 in	1 1/2	Honeywell	RP670B1017	**279A20**
Pneumatic Capacity Control	30	0 to 18 psi	Barb for 1/4 plastic tubing for port 1, Barb Type For 5/32 OD Plastic Tubing for ports 2,3, and 4	—	—	1 1/2 in	1 1/2	Honeywell	RP970A1008	**279A18**
Pneumatic Reversing Control	30	18 psi Main, 3 to 15 psi Pilot	Port 1 (Main, Supply) barb for 1/4 (6-mm) OD tubing Ports 2, 3, and 4 (Branch, Output, Pilot, Input and Exhaust ,respectively) barb for 5/32 (4-mm) OD tubing	—	—	2 1/4 in	1 1/2	Honeywell	RP972A1006	**3UC63**
Solenoid Air Valves										
Electrically Operated, 2-Position, 3-Way Valve, Open Frame	50	0 to 30 psi	1/4 in Barb	2 7/8	1 3/4	1 7/8	—	Siemens	265-1028	**44C453**
Electrically Operated, 2 Position, 3-Way Valve, Junction Box	50	0 to 30 psi		3 3/4	3 13/16	1 3/8	—	Siemens	265-1022	**4E725**

KMC Controls | Johnson Controls | Honeywell | SIEMENS

Pneumatic Damper Actuators

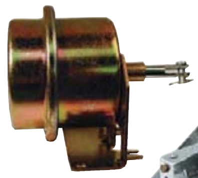
Proportional control of dampers in either independent or sequence operation.

KMC models are for use on VAV terminals, small dampers, and valves. 3/16" fitting for 1/4" tubing, 1/2" mounting hole diameter. Operating temperature limit: -20° to 180°F.

Honeywell 3UC22 to 3UC24 have no bracket or ball joint, and are for direct replacement.

Siemens/Powers Controls - most models have pivot mounting.

Johnson Controls models respond to a pneumatic controller or electro-pneumatic transducer.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279A08

Operating PSI Range	Max. Air Pressure	Stroke	Nominal Spring Range	Net Force Exerted @ 18 PSI	Net Force Exerted @ 0 PSI	H	L	W	Includes	Brand	Mfr. Model	Item No.
Linear Actuators												
VAV Terminals, Small Dampers												
0 to 20	30 psi	1 11/16 in	5 to 10 psi	67 lb	34 lb	4 1/4 in	5 1/2 in	4 1/4 in	Mounting Bracket	KMC Controls	MCP-80313101	**4DED1**
	30 psi	1 11/16 in	8 to 13 psi	47 lb	54 lb	4 1/4 in	5 1/2 in	4 1/4 in	Mounting Bracket	KMC Controls	MCP-80315101	**4DED2**
	30 psi	1 11/16 in	3 to 8 psi	81 lb	20 lb	4 1/4 in	5 1/2 in	4 1/4 in	Mounting Bracket	KMC Controls	MCP-80318101	**4DED3**
	25 psi	3 in	8 to 13 psi	47 lb	54 lb	4 in	11 in	4 in	Auxiliary Mounting Bracket	Johnson Controls	D-4073-5	**38Y119**
3 to 8	30 psi	2 2/5 in	3 to 8 psi	36 lb	9 lb	2 13/32 in	6 5/16 in	—	—	Honeywell	MP909D1201	**3UC22**
5 to 10	30 psi	2 2/5 in	5 to 10 psi	30 lb	15 lb	2 13/32 in	6 5/16 in	—	—	Honeywell	MP909D1227	**3UC24**
8 to 13	30 psi	2 2/5 in	8 to 13 psi	21 lb	24 lb	2 13/32 in	6 5/16 in	—	—	Honeywell	MP909D1219	**3UC23**
Small Dampers and High Velocity Mixing Boxes												
3 to 13	29 psi	4 in	3 to 13 psi	3.3 lb	19.8 lb	6 7/8 in	17 in	6 3/8 in	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1018	**3UC26**
	29 psi	4 in	3 to 13 psi	3.3 lb	19.8 lb	6 7/8 in	17 in	6 3/8 in	—	Honeywell	MP909E1026	**3UC27**
3 to 7	20 psi	2 3/8 in	8 to 13 psi	88 lb	24 lb	4 3/4 in	10 1/2 in	4 3/4 in	Pivot Post, Mounting Plate, Clevis, and Arm	Powers Controls	331-4811	**2KGP4**
9 to 13	29 psi	3 1/10 in	9 to 13 psi	3.3 lb	59.4 lb	6 7/8 in	17 in	6 3/8 in	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1174	**279A07**
Medium to Large Dampers												
0 to 20	30 psi	3 in	8 to 13 psi	150 lb	—	8 in	12 in	6 in	Mounting Bracket and Pilot Positioner	Johnson Controls	D-3153-1	**12Y963**
	30 psi	3 in	8 to 13 psi	150 lb	—	6 in	12 in	6 in	Mounting Bracket	Johnson Controls	D-3153-2	**12Y962**
3 to 7	30 psi	4 in	3 to 7 psi	121 lb	33 lb	4 5/8 in	10 in	4 19/32 in	—	Powers Controls	331-3000	**40PN45**
3 to 13	29 psi	3 1/2 in	3 to 13 psi	89 lb	50 lb	6 7/8 in	18 1/4 in	6 5/8 in	External Mounting Bracket and Crank Arm Assembly	Honeywell	MP918B1006	**279A06**
	30 psi	4 in	3 to 13 psi	55 lb	33 lb	4 5/8 in	10 in	4 19/32 in	—	Powers Controls	331-3001	**40PN46**
	30 psi	6 in	3 to 8 psi	179 lb	54 lb	7 1/8 in	14 in	7 3/16 in	—	Powers Controls	331-3012	**40PN49**
5 to 10	30 psi	2 3/8 in	5 to 10 psi	64 lb	24 lb	3 15/16 in	6 in	4 in	Bracket, Clevis	Powers Controls	331-4514	**40PN43**
8 to 13	25 psi	3 1/2 in	8 to 13 psi	83 lb	160 lb	8 in	20 1/2 in	6 5/8 in	External Mounting Bracket, Crank Arm Assembly, and Positive Positioner	Honeywell	MP918A1024	**279A08**
	30 psi	4 in	8 to 13 psi	55 lb	88 lb	7 1/2 in	20 1/2 in	4 3/4 in	Pivot Post and Mounting Plate	Powers Controls	331-2973	**2KGP5**
	30 psi	4 in	8 to 13 psi	55 lb	33 lb	4 5/8 in	10 in	4 19/32 in	Clevis	Powers Controls	331-2961	**40PN48**
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	7 1/8 in	14 in	7 3/16 in	Clevis	Powers Controls	331-2856	**40PN54**
	30 psi	4 in	8 to 13 psi	55 lb	88 lb	7 1/2 in	20 13/16 in	4 19/32 in	Positioning Relay	Powers Controls	332-2973	**40PN47**
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	7 1/8 in	14 in	7 3/16 in	—	Powers Controls	331-3011	**40PN51**
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	8 1/2 in	20 13/16 in	7 3/16 in	Positioning Relay	Powers Controls	332-3011	**40PN52**
Rotary Actuators												
VAV Terminals, Small Dampers												
0 to 20	30 psi	—	5 to 10 psi	85 lb	42 lb	4 1/2 in	8 1/4 in	4 1/2 in	Mounting Bracket	KMC Controls	MCP-36313000	**4DEA7**
	30 psi	—	8 to 13 psi	59 lb	69 lb	4 1/2 in	8 1/4 in	4 1/2 in	Mounting Bracket	KMC Controls	MCP-36315000	**4DEA8**
	30 psi	—	3 to 8 psi	102 lb	25 lb	4 1/2 in	8 1/4 in	4 1/2 in	Mounting Bracket	KMC Controls	MCP-36318000	**4DEA9**
Accessory												
Proportional Pilot Positioner Kit, Control Range 2 to 12 psi; Pressure Range 2 to 13 psi; Max. Safe Air 25 psi psi									Positioner, Spring, Mounting Plate, Hardware	Johnson Controls	D-9502-8	**12Y965**

Pneumatic Receiver-Controllers and Modular Controllers

Johnson Controls—38Y191 directly controls dampers, valves, and other devices in a pneumatic transmission system from a remote transmitter. 20RG02 is a pressure independent submaster device for regulating air flow in VAV boxes. 20RG03 controls the output volume in response to a reset signal from a thermostat or other master controller.

KMC—For use with pressure switches, receiver gauges, relays, and temperature transmitters to control valves and actuators, including low-limit applications.

Siemens—Use to control temperature, humidity, and pressure of mechanical equipment in commercial buildings. Feature internal restrictors for transmitter inputs and plug-in air connectors. Setpoint can be reset.

Honeywell—
Use with remote sensors to provide proportional (P) or proportional plus integral (P+I) control of temperature, humidity, pressure, or dew point.

4DED4

4E685

38Y192

279A05

20RG02

Type	H (in.)	W (in.)	D (in.)	Air Input Range (psi)	Gauge	Reset Capability	Output	Control Type	Brand	Mfr. Model	Item No.
Receiver Controller											
Dual Input	5 in	5 in	5 in	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5800-3	**38Y193**
Dual Input w/Remote Set Point Adjustment, High Main Valve Capacity	5 ¼ in	4 ⅜ in	2 5⁄16 in	3 to 30	Optional	Yes	3 to 15 psig	Field Selectable	KMC Controls	CCC-1002	**4DED4**
Multiple Inputs	5 11⁄16 in	6 ¾ in	3 ½ in	3 to 15	Yes	Yes	0 to 22	Input #1 DA, Input #2 RA, Input #3 Reset	Siemens	195-0003	**4E685**
Single Input	5 in	5 in	5 in	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5800-1	**38Y192**
	5 11⁄16 in	6 ¾ in	3 ½ in	3 to 15	No	No	0 to 22	Input #1 DA, Input #2 RA	Siemens	195-0011	**4E686**
	8 in	4 in	3 in	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-5312-1	**38Y191**
	8 in	4 in	3 in	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-8000-1	**38Y194**
	8 in	4 in	3 in	18 to 22	Yes	—	3 to 15	Proportional	Johnson Controls	T-8000-3	**38Y195**
Modular Controller											
Dual Input	5 ⅞ in	3 13⁄16 in	3 ⅜ in	3 to 15	—	—	3 to 13	Field Selectable	Honeywell	RP920B1031	**279A05**
Single Input	5 ⅞ in	1 ⅞ in	3 ⅜ in	3 to 15	—	—	3 to 13	Field Selectable	Honeywell	RP920A1033	**3UC58**

Description	Setpoint Range Max. (in. WC)	Setpoint Range Min. (in. WC)	Main Air Pressure (psig)	Reset Pressure Band	Brand	Mfr. Model	Item No.
Reset Volume Controllers							
NO, Cooling: DADR, Heating: DARR NC, Cooling: RARR, Heating: RADR	0.15 to 3.2	0 to 1.6	13 to 25 psig	3 to 10 psig	Johnson Controls	P-3800-1	**20RG02**
NO, Cooling: DARR, Heating: DADR NC, Cooling: RADR, Heating: RARR	0.15 to 2.5	0 to 0.9				P-3800-2	**20RG03**

Pneumatic Solenoid Air Valves

- 3-way

Series V11 models can be mounted in any position and are for use in applications where the operation of a pneumatically-operated device is dependent upon an electrical circuit.

13F615

Item	Contact Action	Control Air Pressure	Air Connec.	Voltage	Mfr. Model	Item No.
Air Switching Valve	NO / NC	11 to 15 psi	¼ in Barb	—	V-6135-2	**38Y207**
		15 to 19 psi	¼ in Barb	—	V-6135-3	**38Y208**
		2 to 4 psi	¼ in Barb	—	V-6135-1	**38Y206**
Solenoid Air Valve		0 to 25 psi	⅛ in NPT	120V AC	V-2410-2	**38Y204**
			¼ in Barb	120V AC	V11HAA-100	**38Y197**
			¼ in Barb	120/240V AC	V11HAA-115	**38Y198**
			¼ in Barb	220/240V AC	V11HBA-100	**38Y199**
			¼ in Barb	208V AC	V11HCA-100	**38Y201**
			¼ in Barb	440/480V AC	V11HDA-100	**38Y202**
			¼ in Barb	277V AC	V11HFA-100	**20RG21**
			¼ in Barb	24V AC	V11HGA-100	**13F615**
Safety Relief Pilot Valve	NO	1 to 20 psi	¼ in Barb	—	V-6040-1	**38Y205**

4DDY5

Variable Air Volume (VAV) Control Kits

Contain all components necessary for field replacement of pneumatic controls for each indicated application. For kit contents go to Grainger.com®.

Application	Mfr. Model	Item No.
Cooling Only	KIT-1001	**4DDY4**
Fan Power and Electric Reheat	KIT-1002	**4DDY5**
Fan Power and Hot Water Reheat Up to 22.5K BtuH	KIT-1003	**4DDY6**
Fan Power with Hot Water Reheat Up to 55K BtuH	KIT-1004	**4DDY7**

4DDZ2

Variable Air Volume (VAV) Controller Submasters and Sensors

SUBMASTERS

- Main air pressure: 15 to 30 psig
- Output sensitivity: 5 psi/0.02" WC
- Setpoint range min.: 0" WC
- Adjustable min./max. velocity limits
- Push-on fittings for ¼" O.D. tubing
- Mounting bracket included

CSC-2000 Series—Designed for use on VAV terminal units in HVAC systems. 4DDZ2 has a 0 to 10 molded plastic reference dial.

CSC-3000 Series—Universal replacement for more than 85% of OEM-supplied direct- and reverse-acting pneumatic VAV volume-reset controllers shipped since 1980. Reset start point factory set at 8 psig for 4DDZ8 and 4DDZ9; 3 psig for 4DEA1; and 10 psig for 4DEA2.

DIFFERENTIAL PRESSURE FLOW SENSORS

- ½" exterior length
- ¼" push-on nipple

For use with VAV controllers and ⅜" O.D. polyethylene tubing. Easily installed through ⅞" dia. hole in duct.

Control Type	Thermostat Required for Cooling	Thermostat Required for Heating	Setpoint Range (in. wc) Min.	Setpoint Range (in. wc) Max.	Reset Pressure Band	Air Consumption	Mfr. Model	Item No.
Submasters								
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2001	**4DDZ2**
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2003	**4DDZ3**
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	14.4 SCIM at 20 psig	CSC-2004	**4DDZ4**
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	11.5 SCIM at 20 psig	CSC-2007	**4DDZ5**
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	11.5 SCIM at 20 psig	CSC-2008	**4DDZ6**
DA	DA	RA	0 to 2	Min + 2	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2009	**4DDZ7**
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3011-10	**4DDZ8**
DA/RA	DA/RA	DA/RA	0 to 2	Min to 2	0 to 10 psig	46.1 SCIM at 20 psig	CSC-3025-10	**4DDZ9**
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3021-10	**4DEA1**
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3023-10	**4DEA2**

Type	Insertion Length (in.)	Overall Length (in.)	Mounting Flange	Mounting Hole Center to Center (in.)	Mfr. Model	Item No.
Differential Pressure Flow Sensors, ¼ in Thick Foam Gasket Included						
1 Sensing Point	3 5⁄32 in	4 in	3½ x 1¼ in	2 ¾ in	SSS-1002	**4DEA3**
2 Sensing Points	5 13⁄32 in	6 in	4½ x 1¼ in	3 ¾ in	SSS-1003	**4DEA4**
3 Sensing Points	7 21⁄32 in	8 in	5½ x 1¼ in	4 ¾ in	SSS-1004	**4DEA5**
4 Sensing Points	9 29⁄32 in	10 in	6½ x 1¼ in	5 ¾ in	SSS-1005	**4DEA6**
Sensor Kit						
VAV Control Sensor Kit, Includes One 3 5⁄32"L (80 mm) sensor, 1 Sensing Point (SSS-1002), One 5 13⁄32"L (137 mm) Sensor, 2 Sensing Points (SSS-1003), One 7 21⁄32"L (195 mm) Sensor, 3 Sensing Points (SSS-1004), One 9 29⁄32"L (252 mm) Sensor, 4 Sensing Points (SSS-1005) Installation Guide					KIT-1005	**4DDY8**

2½" to 6" Pneumatic and Electric Actuated Globe Valves

Johnson Controls

Cast iron flanged globe valves feature brass trim, and are designed primarily to regulate the flow of water and steam in response to the demand of a controller in HVAC systems.

For additional information on actuators, go to Grainger.com®.

41P833

41P633

Description	Mfr. Model	Item No.
Accessories		
Pneum. Valve Actuator Mounting Kit	MP8000-6002	**41P606**
Pneum. Valve Actuator Positioner, 3 to 13 psi	V-9502-95	**41P661**

Valve Design	Valve Config.	Connec. Size	Cv	Mfr. Model	Item No.	Close-Off psig	3 to 7 psi Item No.	Close-Off psig	4 to 8 psi Item No.	Close-Off psig	9 to 13 psi Item No.	Close-Off psig	Floating Item No.	Proportional Item No.	Mounting Kit Item No.	Close-Off psig	Floating Item No.	On / Off Item No.	Proportional Item No.	Mounting Kit Item No.
Valves						**Actuators, Spring-Return Pneumatic**						**Actuators, Non-Spring Return M9000**				**Actuators, Spring-Return M9000†**				
2-Way	NO	2 ½ in	51	VG2231TL	**41P817**	53	**41P619**	49	**41P621**	28	**41P623**	—	—	—	—	—	—	—	—	—
				VG2231TM	**41P818**	109	**41P625**	100	**41P627**	58	**41P629**	101	**41P526**	**41P530**	**41P445**	76	**41P593**	**41P599**	**41P602**	**41P445**
		3 in	83	VG2231UL	**41P819**	37	**41P619**	34	**41P621**	19	**41P623**	—	—	—	—	—	—	—	—	—
				VG2231UM	**41P820**	75	**41P630**	70	**41P631**	40	**41P632**	88	**41P526***	**41P530***	**41P447**	66	**41P593***	**41P599***	**41P602***	**41P447**
				VG2231UN	**41P821**	152	**41P633**	140	**41P634**	81	**41P635**	—	—	—	—	—	—	—	—	—
		4 in	150	VG2231VM	**41P822**	42	**41P630**	39	**41P631**	23	**41P632**	49	**41P526***	**41P530***	**41P447**	37	**41P593***	**41P599***	**41P602***	**41P447**
				VG2231VN	**41P823**	86	**41P633**	79	**41P634**	46	**41P635**	—	—	—	—	—	—	—	—	—
		5 in	240	VG2231WN	**41P824**	55	**41P636**	51	**41P637**	29	**41P638**	26	**41P526***	**41P530***	**41P449**	20	**41P593***	**41P599***	**41P602***	**41P449**
		6 in	350	VG2231YN	**41P825**	38	**41P636**	35	**41P637**	20	**41P638**	16	**41P526***	**41P530***	**41P451**					
	NC	2 ½ in	51	VG2431TM	**41P826**	24	**41P625**	32	**41P627**	75	**41P629**	—	—	—	—	—	—	—	—	—
		3 in	83	VG2431UM	**41P827**	17	**41P630**	22	**41P631**	52	**41P632**									
				VG2431UN	**41P828**	34	**41P633**	46	**41P634**	105	**41P635**									
		4 in	150	VG2431VM	**41P829**	9	**41P630**	13	**41P631**	29	**41P632**									
				VG2431VN	**41P830**	19	**41P633**	26	**41P634**	59	**41P635**									
		5 in	240	VG2431WN	**41P831**	12	**41P636**	17	**41P637**	38	**41P638**									
		6 in	350	VG2431YN	**41P832**	9	**41P636**	11	**41P637**	26	**41P638**									
3-Way Mixing	—	2 ½ in	54	VG2831TM	**41P833**	65 / 14	**41P625**	60 / 19	**41P627**	35 / 45	**41P629**	60	**41P526**	**41P530**	**41P445**	45	**41P593**	**41P599**	**41P602**	**41P445**
		3 in	80	VG2831UM	**41P834**	45 / 10	**41P630**	42 / 13	**41P631**	24 / 31	**41P632**	53	**41P526***	**41P530***	**41P447**	40	**41P593***	**41P599***	**41P602***	**41P447**
				VG2831UN	**41P835**	91 / 21	**41P633**	84 / 28	**41P634**	49 /63	**41P635**	—	—	—	—	—	—	—	—	—
		4 in	157	VG2831VM	**41P836**	25 / 6	**41P630**	23 / 8	**41P631**	14 / 18	**41P632**	30	**41P526***	**41P530***	**41P447**	11	**41P593**	**41P599**	**41P602**	**41P446**
				VG2831VN	**41P837**	51 / 12	**41P633**	47 / 16	**41P634**	27 / 35	**41P635**	—	—	—	—	22	**41P593***	**41P599***	**41P602***	**41P447**
		5 in	238	VG2831WN	**41P838**	33 / 7	**41P636**	23 / 8	**41P637**	18 / 23	**41P638**	15	**41P526***	**41P530***	**41P449**	12	**41P593***	**41P599***	**41P602***	**41P449**
		6 in	347	VG2831YN	**41P839**	23 / 5	**41P636**	21 / 7	**41P637**	12 / 16	**41P638**	9	**41P526***	**41P530***	**41P451**	7	**41P593***	**41P599***	**41P602***	**41P451**

** Two actuators required. † Actuators can be configured to spring return either open or closed.*

Honeywell SIEMENS

Pneumatic Valves

3UD19

UNITARY

- Body pressure rating: 250 psi
- Max. controlled medium temp.: 250°F

GLOBE

- Body pressure rating: 250 psi
- Media temp. range: 35° to 250°F

Valve Type	Cv	Pipe (in.)	Spring Range (psi)	Close Off Rating @ Main PSI	Brand	Mfr. Model	Item No.
Unitary							
2-Way NO	1.6	½ OD	3-10	45 @ 13	Honeywell	VP527A1034	**3UD21**
	2.5	⅝ OD	3-7	79 @ 13	Honeywell	VP513A1188	**279A03**
2-Way NC	2.5	⅝ OD	9-13	50 @ 7	Honeywell	VP513B1053	**279A02**
3-Way	1.6	½ ODF	2-5	58 @ 13	Honeywell	VP526A1092	**3UD20**
	1.6	⅝ ODF	2-5	58 @ 13	Honeywell	VP526A1027	**3UD19**
Globe							
2-Way NO	2.5	½ NPT	3-8	45 @ 20	Siemens	257-02038	**6YC71**
	2.5	½ NPT	3-8	45 @ 0	Siemens	257-02039	**25DW44**
	4	½ NPT	3-8	45 @ 20	Siemens	257-02041	**2KGR2**
	6.3	¾ NPT	3-8	35 @ 20	Siemens	257-02044	**6YC72**
2-Way NC	2.5	½ NPT	10-15	50 @ 0	Siemens	256-02008	**6YC70**
3-Way	4	½ NPT	8-13	50 @ 0	Siemens	258-02069	**6YC73**

SIEMENS

2- and 3-Way Globe Valves

5GED2

- Normally open

Used for hot or chilled water on convectors, fan coil units, unit conditioners, radiation, reheat coils, and similar terminal units. 3-position models include wiring adapters for ⅜" flex conduit and plenum cable.

Specifications	Connec. Type/Size (in.)	Cv	Mfr. Model	Item No.
2 Position On/Off	(F)NPT ½	1	243-00210	**5GED2**
	(F)NPT ½	2.5	243-00211	**5GED3**
	(F)NPT ¾	4.1	243-00212	**5GED4**
2 Position Floating	(F)NPT ½	0.4	259-02030	**5GEC7**
3 Position Floating	(F)NPT ½	0.63	259-02032	**5GEC8**
	(F)NPT ½	1	259-02034	**5GEC9**
	(F)NPT ½	1.6	259-02036	**5GED0**
	(F)NPT ½	2.5	259-02038	**5GED1**

Honeywell Honeywell Home

Electric Globe Valves

2- and 3-Way, Cartridge Cage—Actuator can be removed without draining system. For use with floating actuators, sold separately. No tools required for actuator installation or removal. Service is by replacement of cartridge, not valve body. 2-way bodies can be plumbed in either direction. 3-way bodies can be used in diverting or mixing applications.

2- and 3-Way, Cartridge—Long stroke allows wider range of control. Soft valve seat provides low leakage rate. Threaded plastic cover with handle for manual operation. Easily installed in areas where space is limited.

2-Way, Direct Acting—Provide equal percentage characteristics of flow for close control of water, and linear characteristics of flow for close control of steam.

279A99

Item	Type	For Use With	Brand	Mfr. Model	Item No.
Accessories					
Actuator	2-Postition Line Voltage	VC Series Valves	Honeywell Home	VC4011ZZ11	**4ATD4**
	2-Postition Low Voltage	VC Series Valves, and a SPDT Controller	Honeywell Home	VC2114ZZ11	**4ATD3**
	2-Postition Low Voltage With End Switch	VC Series Valves, and a SPST Controller	Honeywell Home	VC8714ZZ11	**4ATD7**
	Floating Low Voltage	V5852, V5853, V5862, V5863 valves	Honeywell	M6410A1029	**4ARY8**
	Floating Low Voltage	VC Series Valves, 4ATD8, 4ATD9, 4ATE1	Honeywell Home	VC6934ZZ11	**4ATD5**
	Modulating Low Voltage	V5852, V5853, V5862, V5863 valves	Honeywell	M7410F1000	**4ARY9**
	Modulating Low Voltage	VC Series Valves	Honeywell	VC7934ZZ11	**278Z01**
Globe Valve Linkage	¾ in Stroke and ½ in Shaft	V5011N globe valves, direct coupled actuators	Honeywell	Q5020A1003	**278Z06**

Type	Connec. Type/Size (in.)	Cv	Mfr. Model	Item No.
Cartridge Valves, Honeywell				
2-Way, Cartridge Cage	(F)NPT ½	3.5	VCZBB1100	**279A83**
Solder Globe Valves, Honeywell				
2-Way, Cartridge	Sweat ½	1.2	V5852A2049	**4ATC2**
	Sweat ¾	4.9	V5852A2072	**279C10**
3-Way, Cartridge	Sweat ½	1.9	V5853A2048	**279A96**
	Sweat ¾	4.9	V5853A2063	**279C09**
3-Way, Cartridge Cage	(F)NPT ½	3.7	VCZNB6100	**279A74**
Solder Globe Valves, Honeywell Home				
2-Way, Cartridge Cage	Sweat ½	3.5	VCZAA1100	**4ATD8**
Threaded Globe Valves, Honeywell				
2-Way, Cartridge	(F)NPT ½	0.47	V5862A2021	**279A86**
	(F)NPT ½	1.2	V5862A2047	**279A92**
	(F)NPT ½	1.9	V5862A2054	**279A88**
	(F)NPT ¾	4.9	V5862A2070	**279A75**
2-Way, DA	(F)NPT 1½	29	V5011N1081	**279A89**
	(F)NPT 1¼	18.7	V5011N1073	**279A85**
	(F)NPT ½	0.73	V5011N1008	**279A99**
	(F)NPT ½	1.16	V5011N1016	**279C14**
	(F)NPT ½	1.85	V5011N1024	**279A97**
	(F)NPT ½	2.9	V5011N1032	**279C15**
	(F)NPT ½	4.7	V5011N1040	**279A81**
	(F)NPT ¾	7.3	V5011N1057	**279A87**
	(F)NPT 1	11.7	V5011N1065	**279A76**
	(F)NPT 2	46.8	V5011N1099	**279C06**

41P549

41P602

41P461

2UPH2

36G971

Johnson Controls SIEMENS Honeywell KMC CONTROLS BELIMO

Electric Damper Actuators

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Johnson Controls						
Spring-Return						
27 in-lb	Floating, On/Off	150 sec	24VAC/DC	—	M9203-AGA-2	**41P549**
	Floating, On/Off	90 sec	24VAC/DC	—	M9203-AGA-2Z	**41P550**
	Floating, On/Off	150 sec	24VAC/DC	SPDT	M9203-AGB-2	**41P551**
	Floating, On/Off	90 sec	24VAC/DC	SPDT	M9203-AGB-2Z	**41P552**
	On/Off	Less than 75 sec	24VAC/DC	—	M9203-BGA-2	**41P553**
	On/Off	Less than 75 sec	24VAC/DC	SPDT	M9203-BGB-2	**41P554**
	On/Off	Less than 75 sec	85-264VAC	—	M9203-BUA-2	**41P555**
	On/Off	Less than 30 sec	85-264VAC	—	M9203-BUA-2Z	**41P556**
	On/Off	Less than 75 sec	85-264VAC	SPDT	M9203-BUB-2	**41P557**
	On/Off	Less than 30 sec	85-264VAC	SPDT	M9203-BUB-2Z	**41P558**
	Proportional	150 sec	24VAC/DC	—	M9203-GGA-2	**41P559**
	Proportional	90 sec	24VAC/DC	—	M9203-GGA-2Z	**41P560**
	Proportional	150 sec	24VAC/DC	SPDT	M9203-GGB-2	**41P561**
	Proportional	90 sec	24VAC/DC	SPDT	M9203-GGB-2Z	**41P562**
70 in-lb	Floating, On/Off	150 sec	24VAC/DC	—	M9208-AGA-2	**41P572**
	Floating, On/Off	150 sec	24VAC/DC	—	M9208-AGA-3	**41P573**
	Floating, On/Off	150 sec	24VAC/DC	2 SPDT	M9208-AGC-3	**41P574**
	On/Off	Less than 75 sec	120VAC	—	M9208-BAA-3	**41P575**
	On/Off	Less than 75 sec	120VAC	2 SPDT	M9208-BAC-3	**41P576**
	On/Off	Less than 75 sec	230VAC	—	M9208-BDA-3	**41P577**
	On/Off	Less than 75 sec	230VAC	2 SPDT	M9208-BDC-3	**41P578**
	On/Off	Less than 75 sec	24VAC/DC	—	M9208-BGA-3	**41P579**
	On/Off	Less than 75 sec	24VAC/DC	2 SPDT	M9208-BGC-3	**41P580**
	Proportional	150 sec	24VAC/DC	—	M9208-GGA-2	**41P581**
	Proportional	150 sec	24VAC/DC	—	M9208-GGA-3	**41P582**
	Proportional	150 sec	24VAC/DC	2 SPDT	M9208-GGC-3	**41P583**
177 in-lb	Floating, On/Off	150 sec	24VAC/DC	—	M9220-AGA-3	**41P593**
	Floating, On/Off	150 sec	24VAC/DC	2 SPDT	M9220-AGC-3	**41P594**
	On/Off	24 to 57 sec	120VAC	—	M9220-BAA-3	**41P595**
	On/Off	24 to 57 sec	120VAC	2 SPDT	M9220-BAC-3	**41P596**
	On/Off	24 to 57 sec	230VAC	—	M9220-BDA-3	**41P597**
	On/Off	24 to 57 sec	230VAC	2 SPDT	M9220-BDC-3	**41P598**
	On/Off	24 to 57 sec	24VAC/DC	—	M9220-BGA-3	**41P599**
	On/Off	24 to 57 sec	24VAC/DC	2 SPDT	M9220-BGC-3	**41P601**
	Proportional	150 sec	24VAC/DC	—	M9220-GGA-3	**41P602**
	Proportional	150 sec	24VAC/DC	2 SPDT	M9220-GGC-3	**41P603**
	Proportional	150 sec	24VAC/DC	—	M9220-HGA-3	**41P604**
	Proportional	150 sec	24VAC/DC	2 SPDT	M9220-HGC-3	**41P605**
Non-Spring-Return						
18 in-lb	Floating	36 sec	24VAC	—	M9102-AGA-1S	**41P461**
	Floating	30 sec	24VAC	—	M9102-AGA-2S	**41P462**
	Floating	30 sec	24VAC	—	M9102-AGA-3S	**41P463**
	Floating, On/Off	30 sec	24VAC	—	M9102-IGA-2S	**41P464**
	Floating, On/Off	30 sec	24VAC	—	M9102-IGA-3S	**41P465**
35 in-lb	Floating	72 sec	24VAC	—	M9104-AGA-1S	**41P467**
	Floating	60 sec	24VAC	—	M9104-AGA-2S	**41P468**
	Floating	60 sec	24VAC	—	M9104-AGA-3S	**41P469**
	Floating	60 sec	20-30VAC	—	M9104-AGP-2S	**35LY73**
	Proportional	60 sec	24VAC	—	M9104-GGA-2S	**41P470**
	Proportional	60 sec	24VAC	—	M9104-GGA-3S	**41P471**
	Floating, On/Off	60 sec	24VAC	—	M9104-IGA-2S	**41P472**
	Floating, On/Off	60 sec	24VAC	—	M9104-IGA-3S	**41P473**
	Floating with Timeout	60 sec	100-240VAC	—	M9104-IUA-2S	**35LY72**
53 in-lb	Floating	60 sec	24VAC	—	M9106-AGA-2N01	**20XH80**
	Floating	120 sec	24VAC	—	M9106-AGA-2N02	**20XH81**
	Floating	60 sec	24VAC	—	M9106-AGA-4	**41P475**
	Floating	60 sec	24VAC	—	M9106-AGA-5	**41P476**
	Floating	60 sec	24VAC	2 SPDT	M9106-AGC-2	**41P477**
	Floating	60 sec	24VAC	2 SPDT	M9106-AGC-4	**41P478**
	Floating	60 sec	24VAC	2 SPDT	VA9310-HGA-1	**41P479**
	Floating	60 sec	24VAC	—	M9106-AGF-2	**41P480**
	Floating	60 sec	24VAC	—	M9106-IGA-4	**41P488**
	Floating	60 sec	24VAC	—	M9106-IGA-5	**41P489**
	Floating	60 sec	24VAC	2 SPDT	M9106-IGC-4	**41P491**
	Floating	60 sec	24VAC	2 SPDT	M9106-IGC-5	**41P492**
70 in-lb	Floating, On/Off	25 to 50 sec	24VAC/DC	—	M9108-AGA-2	**41P493**
	Floating, On/Off	25 to 50 sec	24VAC/DC	2 SPDT	M9108-AGC-2	**41P494**
	Floating, On/Off	25 to 50 sec	24VAC/DC	—	M9108-AGD-2	**41P495**
	Floating, On/Off	25 to 50 sec	24VAC/DC	—	M9108-AGE-2	**41P496**
	Proportional	25 to 50 sec	24VAC/DC	—	M9108-GGA-2	**41P497**
	Proportional	25 to 50 sec	24VAC/DC	2 SPDT	M9108-GGC-2	**41P498**
	Proportional	25 to 50 sec	24VAC/DC	—	M9108-HGA-2	**41P499**
	Proportional	25 to 50 sec	24VAC/DC	2 SPDT	M9108-HGC-2	**41P501**
	Resistive	25 to 50 sec	24VAC/DC	—	M9108-JGA-2	**41P502**
	Resistive	25 to 50 sec	24VAC/DC	2 SPDT	M9108-JGC-2	**41P503**
80 in-lb	Floating	60 sec	24VAC/DC	—	M9109-AGA-5	**41P506**
	Floating	60 sec	24VAC/DC	2 SPDT	M9109-AGC-4	**41P508**
	Floating	60 sec	24VAC/DC	2 SPDT	M9109-AGC-5	**41P509**
	Proportional	60 sec	24VAC/DC	—	M9109-GGA-5	**41P512**
	Proportional	60 sec	24VAC/DC	2 SPDT	M9109-GGC-2	**41P513**
	Proportional	60 sec	24VAC/DC	2 SPDT	M9109-GGC-4	**41P514**
	Proportional	60 sec	24VAC/DC	2 SPDT	M9109-GGC-5	**41P515**
89 in-lb	Floating	90 sec	24VAC/DC	1 SPDT or 2 SPDT	M9310-HGA-2	**48GF85**
140 in-lb	Floating, On/Off	70 to 115 sec	24VAC/DC	—	M9116-AGA-2	**41P516**
	Floating, On/Off	70 to 115 sec	24VAC/DC	2 SPDT	M9116-AGC-2	**41P517**
	Floating, On/Off	70 to 115 sec	24VAC/DC	—	M9116-AGD-2	**41P518**
	Floating, On/Off	70 to 115 sec	24VAC/DC	—	M9116-AGE-2	**41P519**
	Proportional	70 to 115 sec	24VAC/DC	—	M9116-GGA-2	**41P520**
	Proportional	70 to 115 sec	24VAC/DC	2 SPDT	M9116-GGC-2	**41P521**
	On/Off	70 to 115 sec	24VAC/DC	—	M9116-HGA-2	**41P522**
	On/Off	70 to 115 sec	24VAC/DC	2 SPDT	M9116-HGC-2	**41P523**
	Resistive	70 to 115 sec	24VAC/DC	—	M9116-JGA-2	**41P524**
	Resistive	70 to 115 sec	24VAC/DC	2 SPDT	M9116-JGC-2	**41P525**
177 in-lb	Floating	90 sec	24VAC/DC	1 SPDT or 2 SPDT	M9320-HGA-2	**48GF86**
210 in-lb	Floating, On/Off	115 to 175 sec	24VAC/DC	—	M9124-AGA-2	**41P526**
	Floating, On/Off	115 to 175 sec	24VAC/DC	2 SPDT	M9124-AGC-2	**41P527**
	Floating, On/Off	115 to 175 sec	24VAC/DC	—	M9124-AGD-2	**41P528**
	Floating, On/Off	115 to 175 sec	24VAC/DC	—	M9124-AGE-2	**41P529**
	Proportional	115 to 175 sec	24VAC/DC	—	M9124-GGA-2	**41P530**
	Proportional	117 to 175 sec	24VAC/DC	2 SPDT	M9124-GGC-2	**41P531**
	On/Off	115 to 175 sec	24VAC/DC	—	M9124-HGA-2	**41P532**
	On/Off	115 to 175 sec	24VAC/DC	2 SPDT	M9124-HGC-2	**41P533**
	Resistive	115 to 175 sec	24VAC/DC	—	M9124-JGA-2	**41P534**
	Resistive	115 to 175 sec	24VAC/DC	2 SPDT	M9124-JGC-2	**41P535**
280 in-lb	Floating, On/Off	115 to 205 sec	24VAC/DC	—	M9132-AGA-2	**41P536**
	Floating, On/Off	115 to 205 sec	24VAC/DC	2 SPDT	M9132-AGC-2	**41P537**
	Floating, On/Off	115 to 205 sec	24VAC/DC	—	M9132-AGE-2	**41P538**
	Proportional	115 to 205 sec	24VAC/DC	—	M9132-GGA-2	**41P539**
	Proportional	115 to 205 sec	24VAC/DC	2 SPDT	M9132-GGC-2	**41P540**
310 in-lb	Floating	90 sec	24VAC/DC	1 SPDT or 2 SPDT	M9335-HGA-2	**48GF87**
Siemens						
Spring-Return						
20 in-lb	Modulating	15 sec Spring Return, 30 sec	24VAC/DC	—	GQD151.1P	**2WXU2**
	On/Off	15 sec Spring Return, 30 sec	24VAC/DC	—	GQD121.1P	**2UPH7**
	On/Off	15 sec Spring Return, 30 sec	120VAC	—	GQD221.1U	**5WYD9**
53 in-lb	On/Off	15 sec Nominal, 15 sec Spring Return	24VAC/DC	—	GND121.1U	**5WYE0**
	On/Off	15 sec Nominal, 15 sec Spring Return	24VAC/DC	SPDT	GND126.1U	**5WYE6**
	On/Off	15 sec Nominal, 15 sec Spring Return	120VAC	—	GND221.1U	**5WYE1**
	On/Off	15 sec Nominal, 15 sec Spring Return	120VAC	2 SPDT	GND226.1U	**5WYE7**
62 in-lb	Floating	90 sec	24VAC/DC	—	GMA131.1P	**40PN55**
	Modulating	90 sec	24VAC/DC	—	GMA161.1P	**2UPH3**
	On/Off	90 sec	24VAC/DC	2 SPDT	GMA126.1P	**5WYE5**
	On/Off	90 sec	24VAC/DC	—	GMA121.1P	**2UPH6**
	On/Off	90 sec	120VAC	—	GMA221.1U	**5WYD8**
	On/Off	90 sec	120VAC	2 SPDT	GMA226.1U	**5WYE3**
160 in-lb	Modulating	90 sec	24VAC/DC	—	GCA161.1P	**2UPH2**
	Modulating	90 sec	24VAC/DC	—	GCA151.1P	**40PN56**
	On/Off	90 sec	24VAC/DC	2 SPDT	GCA126.1P	**5WYE4**
	On/Off	90 sec	24VAC/DC	—	GCA121.1P	**2UPH5**
	On/Off	90 sec	120VAC	—	GCA221.1U	**5WYD7**
	On/Off	90 sec	120VAC	SPDT	GCA226.1U	**5WYE2**
Non-Spring-Return						
44 in-lb	Floating	90 sec	24VAC	—	GDE131.1P	**2UPH1**
	Modulating	90 sec	24VAC	—	GDE161.1P	**2UPH4**
88 in-lb	Modulating	125 sec	24VAC	—	GLB161.1P	**36G974**
132 in-lb	Floating	125 sec	24VAC	—	GEB131.1U	**36G971**
	Modulating	125 sec	24VAC	—	GEB161.1U	**36G972**
221 in-lb	Floating	125 sec	24VAC	—	GBB131.1U	**36G969**
	Modulating	125 sec	24VAC	—	GBB161.1U	**36G970**
310 in-lb	Floating	125 sec	24VAC	—	GIB131.1U	**36G967**
	Modulating	125 sec	24VAC	—	GIB161.1U	**36G968**
Honeywell						
Spring-Return						
27 in-lb	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	SPST	MS8103A1130	**6LJL0**
	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	100-240VAC	SPST	MS4103A1030	**278Y38**

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34GR10

6HXU7

40LV72

Electric Damper Actuators

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Honeywell (Cont.)						
Spring-Return (Cont.)						
30 in-lb	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	24VAC	—	MS8104F1010	**34GR11**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	120VAC	2 PSDT	MS4104F1010	**34GR10**
44 in-lb	Floating	25 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MS7505W2030	**278Y41**
	Floating, On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MS7505A2130	**6HMH3**
	Floating, On/Off	25 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MS7505A2030	**278Y12**
	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	2 SPST	MS8105W1030	**6XKH3**
	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	SPST	MS8105A1030	**278Y20**
	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	SPST	MS8105A1130	**278Y42**
	On/Off	25 sec Spring Return, 45 sec Nominal @ 60 Hz	120/230VAC	SPST	MS4105A1030	**278Y33**
80 in-lb	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	24VAC	5 SPDT	MS8109F1010	**278Y30**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	120VAC	—	MS4109F1010	**34GR12**
88 in-lb	Floating	20 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC/DC	Modulating/ Floating	MS7510W2206	**6XKH0**
	Floating, On/Off	20 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MS7510A2008	**2HFD6**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	SPST	MS8110A1008	**278Y34**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	100-240VAC	SPST	MS4110A1002	**278Y21**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	100-240VAC	2 SPDT	MS4110A1200	**278Y31**
175 in-lb	Floating	20 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC	Modulating/ Floating	MS7520W2205	**6XKH2**
	Floating	20 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC	Modulating/ Floating	MS7520W2007	**278Y39**
	Floating, On/Off	20 sec Spring Return, 90 sec Nominal @ 60 Hz	24VAC	SPDT	MS7520A2007	**2HFE3**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	24VAC	SPST	MS8120F1002	**278Y16**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	24VAC	2 SPDT	MS8120F1200	**278Y17**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	120VAC	SPST	MS4120F1006	**2HEY9**
	On/Off	15 sec Nominal @ 60 Hz, 15 sec Spring Return	120VAC	2 SPDT	MS4120F1204	**2HEZ1**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	24VAC/DC	2 SPST	MS8120W1205	**278Y43**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	100-240VAC	SPST	MS4120A1001	**278Y23**
	On/Off	20 sec Spring Return, 45 sec Nominal @ 60 Hz	100-240VAC	2 SPDT	MS4120A1209	**278Y24**

Torque	Signal Type	Timing	Voltage	Switch Type	Mfr. Model	Item No.
Non-Spring-Return						
44 in-lb	Floating, On/Off	95 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MN7505A2001	**278Y11**
	Floating, On/Off	95 sec Nominal @ 60 Hz	24VAC/DC	SPDT	MN6105A1011	**278Y13**
70 in-lb	Floating, On/Off	90 sec Nominal @ 60 Hz	24VAC	SPDT	ML6174B2019	**278Y14**
	Proportional	90 sec Nominal @ 60 Hz	24VAC	—	ML7174A2001	**278Y27**
KMC Controls						
Non-Spring-Return						
40 in-lb	Floating	90 sec	24VAC/DC	—	MEP-4001	**6HXU4**
	Floating	90 sec	24VAC/DC	—	MEP-4003	**6HXU6**
	Proportional	90 sec	24VAC/DC	—	MEP-4002	**6HXU5**
Capacitor Failsafe						
320 in-lb	Floating	90 to 115 sec and 80 to 115 sec	24VAC/DC	—	MEP-7851	**6HXU7**
	Floating	90 to 115 sec and 80 to 115 sec	24VAC/DC	—	MEP-7853	**6HXU9**
	Proportional	90 to 115 sec	24VAC/DC	—	MEP-7852	**6HXU8**
Belimo						
Spring-Return						
22 in-lb	On/Off	75 sec	24VAC/DC	—	TFRB24	**42FG37**
	On/Off	75 sec	100-240VAC	SPDT	TFB120-S	**42FG39**
30 in-lb	On/Off	15 sec	120VAC	—	FSLF120	**40LV79**
35 in-lb	Floating, On/Off	150 sec	24VAC/DC	—	LF24-3	**40LV85**
	MFT	150 sec	24VAC/DC	—	LF24-MFT	**40LV86**
	On/Off	75 sec	24VAC/DC	—	LF24	**40LV84**
	On/Off	75 sec	24VAC/DC	SPDT	LF24-S	**40LV87**
	On/Off	75 sec	120VAC	—	LF120	**40LV82**
	On/Off	75 sec	120VAC	SPDT	LF120-S	**40LV83**
	Proportional	150 sec	24VAC/DC	—	LF24-SR	**40LV88**
70 in-lb	On/Off	15 sec	120VAC	—	FSNF120	**40LV80**
90 in-lb	Proportional	95 sec	24VAC/DC	—	NFB24-SR	**40LV94**
180 in-lb	MFT	150 sec	24VAC/DC	—	AFB24-MFT	**40LV71**
	On/Off	25 sec	120VAC	—	FSAF120A	**467F89**
	On/Off	75 sec	24-240VAC	—	AFBUP	**40LV74**
	On/Off	75 sec	24-240VAC	2 SPDT	AFBUP-S	**40LV75**
	On/Off	75 sec	24VAC/DC	—	AFB24	**40LV70**
	On/Off	75 sec	24VAC/DC	2 SPDT	AFB24-S	**40LV72**
	On/Off	95 sec	24VAC/DC	—	AFRB24-SR	**40LV76**
	Proportional	95 sec	24VAC/DC	—	AFB24-SR	**40LV73**
Non-Spring_Return						
45 in-lb	Floating, On/Off	90 sec	24VAC/DC	—	LRB24-3	**40LV92**
	Floating, On/Off	150 sec	24VAC/DC	—	LMB24-3	**40LV89**
	Floating, On/Off	150 sec	24VAC/DC	—	LMB24-3-T	**40LV90**
	Proportional	90 sec	24VAC/DC	—	LRB24-SR	**40LV93**
	Proportional	95 sec	24VAC/DC	—	LMB24-SR	**40LV91**
	Proportional	95 sec	24VAC/DC	—	LMB24-SR-T	**42FG35**
90 in-lb	Floating, On/Off	95 sec	24VAC/DC	—	NMB24-3	**40LV95**
	MFT	150 sec	24VAC/DC	—	NMB24-MFT	**42FG31**
	Proportional	150 sec	24VAC/DC	—	NMB24-SR	**40LV96**
180 in-lb	Floating, On/Off	95 sec	24VAC/DC	—	AMB24-3	**35YK09**
	Proportional	90 sec	24VAC/DC	—	ARB24-SR	**40LV78**
	Proportional	95 sec	24VAC/DC	—	AMB24-SR	**40LV77**
360 in-lb	Proportional	150 sec	24VAC/DC	—	GMB24-SR	**40LV81**
—	Floating, On/Off	90 sec	24VAC	—	TR24-3	**40LV97**
	Floating, On/Off	90 sec	24VAC	—	TR24-3-T	**40LV98**
	Proportional	90 sec	24VAC/DC	—	TR24-SR-T	**42FG32**

Damper Motors

NEMA 3 wiring box provides weather protection, except 2E976 has an internal SPDT switch.

Spring Return	Torque	Signal Type	Timing	Voltage	H	W	D	Mfr. Model	Item No.
Electric Actuator, Modutrol Motor									
No	150 in-lb	Proportional	30 to 60 sec Nominal @ 60 Hz	24V AC	6 7/16 in	5 1/2 in	7 5/16 in	M9184D1021	**1D290**
Yes	60 in-lb	Proportional	30 to 60 sec Nominal @ 60 Hz	24V AC	6 7/16 in	5 1/2 in	8 3/4 in	M9185D1004	**4E389**
Yes	60 in-lb	Proportional	30 to 60 sec Nominal @ 60 Hz	24V AC	6 7/16 in	5 1/2 in	8 3/4 in	M8185D1006	**278Y15**
Yes	20 in-lb	—	25 sec Spring Return, 30 sec Nominal @ 60 Hz	120V AC	4 1/2 in	4 5/8 in	3 3/4 in	M436A1116	**2E976**
Electric Actuator, Modutrol IV Motor									
No	150 in-lb	Proportional	30 to 60 sec	24V AC	6 7/16 in	5 1/2 in	7 5/16 in	M6184D1035	**1RZY9**

Modutrol IV Accessories	Mfr. Model	Item No.
Internal Transformer Kit, 24/120/240VAC Input, Converts from Low Voltage to Line Voltage	50017460-001	**278Y98**
Internal Auxiliary Switch, Features 1 SPDT Switch with Selectable Differential of 1° to 10° Rotation	220736A	**278Z08**
Internal Auxiliary Dual Switch, Features 2 SPDT Switches with Selectable Differential of 1° to 10° Rotation	220736B	**278Z09**
Super Tradeline Damper Linkage, Internal or External Mount, Contains Ball Joints, Motor Crank Arm and Damper Arm for 1/2 in Diameter Shaft	Q605D1069	**278Y92**
Tradeline Valve Linkage, for Motors and Valves with 3/4" Stem Travel and 1 3/8" Bonnet Dia.; 80/160 Pounds Adjustable Stem Force	Q5001D1000	**278Z03**
Tradeline Valve Linkage For High Stem Forces, for Motors and Valves with 3/4" Stem Travel and 1 3/8" Bonnet Dia.; 160 or 320 Stem Force	Q5001D1018	**278Z11**
Adapter Plate, Steel Bracket to Adjust Modutrol IV Motors to Match Shaft Height of Modutrol III Motors	220738A	**278Z05**

4E389

Scan. Order. Done.
Details on page A1.

Fluid Flow Switches

- SPDT
- 24-230V, except 35LZ20 is 4-120V
- Max. fluid temperature: 250°F
- Max. pressure: 290 psi
- Wetted materials: Viton

For fluid lines carrying ethylene glycol, water, or other nonhazardous liquids.

Standard Flow— For use with 1" or greater pipe size. 35LZ20 is a low-energy switch with gold-plated contacts for improved electrical performance in low-voltage, low-current circuits (dry circuits) to switch low-energy resistive loads, such as control signals.

Low Flow— For use with 1" or smaller pipe size.

Min. Flow Rate (gpm)	Max. Flow (gpm)	Switch Encl.	Connec. Size (in.)	Mfr. Model	Item No.
Standard Flow					
2.5 gpm	760 gpm	NEMA 3R	1 MNPT	F261KAH-V01C	**35LZ18**
		NEMA 4		F261MAL-V01C	**35LZ20**
				F261MAH-V01C	**35LZ21**
Low Flow					
0.6 gpm	17 gpm	NEMA 3R	½ FNPT x ½ FNPT	F261KEH-V01C	**35LZ12**
			¾ FNPT x ¾ FNPT	F261KFH-V01C	**35LZ13**
				F261KFH-V02C	**35LZ14**
		NEMA 4	½ FNPT x ½ FNPT	F261MEH-V01C	**35LZ15**
			¾ FNPT x ¾ FNPT	F261MFH-V01C	**35LZ16**

Air Flow Switch

- SPDT
- Max. air velocity: 2000 fpm
- Max. ambient temp.: 104ºF

Detects duct air flow (or absence) by velocity of air movement. Features trimmable 1-pc. stainless steel paddle and range-adjusting screw for field adjustment. Gasket included.

Paddle Size	Full Load Amps @ 115/230V	Min. Actuation Velocity Horizontal	Min. Actuation Velocity Vertical	Mfr. Model	Item No.
2⅛" x 6⅞"	16.0/8.0	500 fpm (> 50 sq in duct area)	750 fpm (> 50 sq in duct area)	F262KDH-01C	**35LY69**

2AGD4

Air Pressure Controls

Low-Pressure Transducers— Measure static and differential pressure of clean, dry, noncorrosive gases in HVAC ducts and other applications. LED power status indicator. Detachable terminal block simplifies wiring. NEMA 1 ABS housing has ¼" barbed male fittings. Proof pressure 15 psi, burst pressure 25 psi.

- Accuracy: 0.8% full scale
- 4 to 20mA output

Pressure Range (in. WC)	Mfr. Model	Item No.
Ashcroft, Low-Pressure Transducers		
0 to 0.1	CX8MB242P1IW	**2AGD4**
0 to 0.25	CX8MB242P25IW	**2AGD5**
0 to 0.5	CX8MB242P5IW	**2AGD6**
0 to 1	CX8MB2421IW	**2AGD7**
0 to 3	CX8MB2423IW	**2AGD8**
0 to 5	CX8MB2425IW	**2AGD9**
0 to 10	CX8MB24210IW	**2AGE1**
-0.1 to 0 to 0.1	CX8MB242P1IWL	**2AGE2**
-0.25 to 0 to 0.25	CX8MB242P25IWL	**2AGE3**
-0.5 to 0 to 0.5	CX8MB242P5IWL	**2AGE4**
-1 to 0 to 1	CX8MB2421IWL	**2AGE5**
-2 to 0 to 2	CX8MB2422IWL	**2AGE6**
-5 to 0 to 5	CX8MB2425IWL	**2AGE7**
Dwyer Instruments, Air Pressure Transmitters		
0 to 1, 0 to 2, or 0 to 5	MS-111	**1AEW1**
0 to 0.1, 0 to 0.25, or 0 to 0.5	MS-121	**1AEW2**

Air Pressure Transmitters— Monitor differential pressure and air velocity. Ranges and units are field selectable. Adjustable display damping. 3⁄16" I.D. tubing connection.

- Operating temp.: 0° to 150°F
- Power supply: 2-wire, 10 to 35VDC
- 4 to 20mA DC signal output

Description	For Use With	Item No.
Accessories		
Ashcroft, Conduit Connection Kit	CXLdp Differential Pressure Transmitter	**2AGE8**
Dwyer Instruments, Display Upgrade Kit	Dwyer MS Magnesense Differential Pressure Transmitters	**1AEW3**

35LZ10

Liquid Level Float Switches

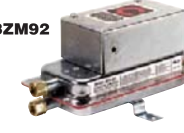
A change in the liquid level will open or close an electrical circuit, and allows you to maintain the proper liquid level in a closed tank.

Switch Type	Max. Pressure psi	Max. Temp. (°F)	Mfr. Model	Item No.
SPDT	100	250	F263MAC-V01C	**35LZ10**
SPDT	150	212	F263MAP-V01C	**35LZ11**

3ZM96

6XPX7

3ZM92



2EJN1

Pressure-Sensing Switches and Probes

PRESSURE-SENSING SWITCHES

- Mount with diaphragm in vertical plane

Sense positive, negative, or differential air pressure. Negative pressure rating same as positive.

HVAC OEM and HVAC General Purpose— For residential, light commercial mid-efficiency furnaces, and direct digital control (DDC) applications. 2E462 includes ferrules, one 12" length of ¼" O.D. flexible tubing, and ¼" O.D. tubing nuts.

Gold Contact— For computer environments, direct digital control, or where low-ampere currents are wired.

STATIC AND TOTAL PRESSURE PROBES

Static Pressure— Passive probes sense pressure as air flow aspirates across the probe tip opening.

Total Pressure— Impact probes sense negative or positive pressure, depending on the angle of the probe tip opening.

Type	Switch Type	Pressure Setting Range (in. WC)	Sample Line Connector	Brand	Mfr. Model	Item No.	
Pressure-Sensing Switches (Manometer Required to Set Final Pressure)							
HVAC OEM	SPDT	0.25 to 1.0	Barbed	Cleveland Controls	RSS-495-014	**3ZM96**	
		1.0 to 4.0			RSS-498-015	**3ZM97**	
		0.10 - 10.0	¼ in OD		NS2-0000-05	**6XPX7**	
HVAC/General Purpose		0.05	Barbed		DFS-221-112-395	**6XPX9**	
		0.05 to 12.0	Integral Compression		AFS-222-139	**3ZM92**	*
		0.12 to 5.0	Barbed		RFS-4150	**4XB70**	
		0.15 To 12.0	⅛"- 27 NPT	Johnson Controls	P32AC-1C	**40G362**	
		0.05 T0 5.0	⅛ in CC		P32AC-2C	**40G363**	
					P32AC-8C	**40G364**	
			⅛"- 27 NPT		P32AF-1C	**40G365**	
					P32AF-2C	**40G366**	
		0.05 to 12.0	Integral Compression	Columbus Electric	GRH3AD	**2E462**	
		0.25 to 1.0	Barbed	Robertshaw	2374-495	**6XJU0**	
		1.0 to 4.0			2374-498	**6XJU1**	
		0.05 to 12.0	Integral Compression		2374-499	**6XJU2**	
					2374-500	**6XJU3**	
			¼ in Slip-On		2374-502	**6XJU5**	
		0.05			2374-506	**6XJU9**	
	(2) SPST NC	0.06 to 0.8	Integral Compression		2374-507	**6XJV0**	
	SPDT	0.15 +/-, 0.02 to 5.0			2374-508	**6XJV1**	
					2374-509	**6XJV2**	
Gold Contact		0.05 to 12.0		Cleveland Controls	AFS-405-140	**3ZM93**	*
		0.05 to 12.0		Robertshaw	2374-503	**6XJU6**	
Manual Reset	SPST	1 to 12.0	¼ in OD	Siemens	141-0575	**40PN37**	
	SPST NC	0.4 to 12.0	Integral Compression	Cleveland Controls	AFS-460-142	**3ZM94**	*
				Robertshaw	2374-504	**6XJU7**	
Auto Reset	SPDT	0.05 to 1.0	¼ in OD	Siemens	141-0574	**2KGR4**	*

Insertion Length (in.)	Exterior Length (in.)	Overall Length (in.)	STATIC PRESSURE PROBES Without Metal Barbed Hose Adapter Item No.	STATIC PRESSURE PROBES With Metal Barbed Hose Adapter Item No.	TOTAL PRESSURE PROBES Without Metal Barbed Hose Adapter Item No.	TOTAL PRESSURE PROBES With Metal Barbed Hose Adapter Item No.
Cleveland Controls, Probes, 4 Hole Mounting Flange, 1 ½ in Dia., ¼ in Fitting Size						
1 ½ in	1 ¾ in	3 ¼ in	**2EJK2**	**2EJN1**	**2EJL1**	**2EJN9**
2 in	1 ¼ in	3 ¼ in	—	**2EJN2**	**2EJL2**	**2EJP1**
3 ½ in	1 ¾ in	5 ¼ in	**2EJK4**	**2EJN3**	**2EJL3**	**2EJP2**
4 in	1 ¼ in	5 ¼ in	**2EJK5**	**2EJN4**	**2EJL4**	**2EJP3**
5 ½ in	1 ¾ in	7 ¼ in	—	**2EJN5**	**2EJL5**	**2EJP4**
6 in	1 ¼ in	7 ¼ in	**2EJK7**	**2EJN6**	**2EJL6**	**2EJP5**
7 ½ in	1 ¾ in	9 ¼ in	**2EJK8**	—	**2EJL7**	—
8 in	1 ¼ in	9 ¼ in	**2EJK9**	**2EJN8**	**2EJL8**	**2EJP7**

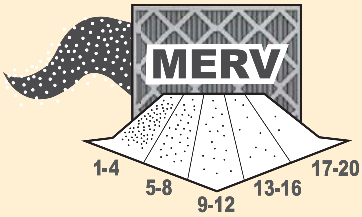
** 2 slip-on tubing adapters and mounting screws included.*

Item	Includes	Mfr. Model	Item No.
Cleveland Controls, Accessories			
Pressure/Vacuum Generator	Batteries, Hand Held Attached Case, Tubing Kit	PVG-1	**49ZZ65**
Universal Sensing Probe Kit	3 Ft ¼ Tubing, Mounting Flange, Mounting Screws, Set Screw, Slip On Adaptor, Universal 7 in Probe	60681-396	**6XPX8**

For more sizes, go to Grainger.com® and search pleated air filters

Performance Ratings

Use MERV ratings to select the right filter



What MERV ratings mean

An air filter's minimum efficiency reporting value (MERV) rating measures how effectively the filter stops dust and other contaminants from passing through the filter and into the air stream. Filters with higher MERV ratings trap small particles more effectively than filters with lower MERV ratings.

MERV Rating 1-4	MERV Rating 5-8	MERV Rating 9-12	MERV Rating 13-16	MERV Rating 17-20
Pollen Dust Mites Sanding Dust Textile/Carpet Fibers	Mold/Spores Dust Lint Cement Dust	Legionella Lead Dust Humidifier Dust Coal Dust Nebulizer Dust	Bacteria Tobacco Smoke Auto Fumes Sneeze Nuclei Insecticide Dust Copier Toner Pet Dander Face Powder	Virus Carriers Carbon Dust Sea Salt Combustion Smoke Radon Progeny Odor Microscopic Allergens
Filters Down To **10.0** Micron Particle Size	Filters Down To **3.0-10.0** Micron Particle Size	Filters Down To **1.0-3.0** Micron Particle Size	Filters Down To **0.3-1.0** Micron Particle Size	Filters Down To **<.30** Micron Particle Size
Application: • Residential Buildings • Window Air-Conditioning Units	**Application:** • Residential Buildings (better performance) • Commercial Buildings • Industrial Workplaces • Paint Booth Inlets	**Application:** • Residential Buildings (superior performance) • Commercial Buildings (better performance) • Hospital Laboratories	**Application:** • Commercial Buildings (superior performance) • General Surgery Rooms • Hospital Inpatient Care Rooms • Smoking Lounges	**Application:** • Pharmaceutical Manufacturing Facilities • Clean Rooms • Orthopedic Surgery Rooms

Air Handler®

General Purpose Pleated Air Filters

- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Capture airborne contaminants more effectively than nonpleated air filters since the pleated filter media has more surface area for trapping contaminants than nonpleated media.

Go to **grainger.com/autoreorder** to set up an ordering schedule.

Note: We carry MERV 13 air filters on Grainger.com.

STANDARD-CAPACITY

Improve air quality and keep resistance within reasonable operating limits.

HIGH-CAPACITY

50% more surface area than standard capacity extends service life by 30% to 50%, providing reduced resistance and lower energy and maintenance costs.

Nom. H	Nom. W	Case Qty.	STANDARD-CAPACITY, MERV 7 Item No.	HIGH-CAPACITY, MERV 8 Item No.	HIGH-CAPACITY, MERV 10 Item No.	HIGH-CAPACITY, MERV 11 Item No.
1 in Nominal Depth						
8 in	16 in	12	5W967	6B917	4YUP6	2JWA9
8 in	30 in	12	6B989	6B916	4YUP7	3DVJ4
10 in	10 in	12	5W968	6B988	4YUP8	2DYP1
10 in	20 in	12	5W890	6B986	4YUP9	2DYP2
10 in	24 in	12	5W969	6B984	4YUR1	2DYP3
10 in	25 in	12	5E998	6B983	4YUR2	2DYP4
10 in	30 in	12	6U583	6B982	4YUR3	3DVJ5
12 in	12 in	12	4E505	6B981	4YUR4	2DYP5
12 in	16 in	12	5E874	6B980	4YUR5	2DYP6
12 in	18 in	12	6U582	6B979	4YUR6	3DVJ6
12 in	20 in	12	6C519	6B978	4YUR7	2DYP7
12 in	24 in	12	4E437	6B976	4YUR8	2DYP8
12 in	25 in	12	6C520	6B973	4YUR9	2DYP9
12 in	30 in	12	6U581	6B972	4YUT1	3DVJ7
14 in	20 in	12	5W891	6B970	4YUT3	2DYR1
14 in	24 in	12	5W970	6B968	4YUT4	2DYR2
14 in	25 in	12	5W892	6B967	4YUT5	2DYR3
14 in	30 in	12	6B998	6B965	4YUT6	3GUX8
15 in	20 in	12	5W893	6B964	4YUT7	2DYR4
15 in	25 in	12	5W971	6B962	4YUT8	2DYR5
15 in	30 in	12	6B997	6B961	4YUT9	3DVJ8
16 in	16 in	12	5W972	6B959	4YUU2	2DYR6
16 in	20 in	12	5W509	6B957	4YUU3	2DYR7
16 in	24 in	12	5W973	6B953	4YUU5	2DYR8
16 in	25 in	12	5W510	6B951	4YUU6	2DYR9
16 in	30 in	12	1TBE8	1TBE9	4YUU7	3DVJ9
17 in	30 in	12	6GKL2	33E894	33E895	33E896
18 in	18 in	12	5E875	6B948	4YUU8	2DYT1
18 in	20 in	12	5W974	6B947	4YUU9	2DYT2
18 in	22 in	12	5E876	6B946	4YUV1	2DYT3
18 in	24 in	12	5W975	6B944	4YUV2	2DYT4
18 in	25 in	12	6C521	6B941	4YUV3	2DYT5
19 in	27 in	12	6B994	6B939	4YUV4	3DVK1
20 in	20 in	12	5W511	6B938	4YUV5	2DYT6
20 in	22 in	12	54FE97	21C095	—	—
20 in	24 in	12	5W976	6B934	4YUV7	2DYT7
20 in	25 in	12	5W512	6B931	4YUV8	2DYT8
20 in	30 in	12	6B992	6B928	4YUV9	2GJA7
22 in	22 in	12	5E877	6B927	4YUW1	2DYT9
24 in	24 in	12	5W513	6B925	4YUW3	2DYU1
24 in	30 in	12	6B990	6B922	4YUW4	3DVK2
25 in	25 in	12	6C522	6B921	4YUW5	2DYU2
2 in Nominal Depth						
10 in	10 in	12	5W977	6B987	4YUW6	2DYU3
10 in	20 in	12	6C514	6B985	4YUW7	2DYU4
12 in	20 in	12	5E878	6B977	4YUW8	2DYU5
12 in	24 in	12	2W234	6B975	4YUW9	2DYU6
14 in	20 in	12	6C515	6B969	4YUX1	2DYU7
14 in	25 in	12	6C516	6B966	4YUX2	2DYU8
15 in	20 in	12	6C517	6B963	4YUX3	2DYU9
16 in	16 in	12	5W978	6B958	4YUX4	2DYV1
16 in	20 in	12	2W230	6B956	4YUX5	2DYV2
16 in	24 in	12	5W979	6B952	4YUX6	2DYV3
16 in	25 in	12	2W231	6B950	4YUX7	2DYV4
18 in	18 in	12	1TBE5	1TBE7	4YUX8	3DVK3
18 in	20 in	12	1TBE4	1TBE6	4YUX9	2GHX7
18 in	22 in	12	5E879	6B945	4YUY1	2DYV5
18 in	24 in	12	5W514	6B943	4YUY2	2DYV6
18 in	25 in	12	5E880	6B940	4YUY3	2DYV7
20 in	20 in	12	2W232	6B937	4YUY4	2DYV8
20 in	24 in	12	5W515	6B933	4YUY5	2DYD3
20 in	25 in	12	2W233	6B930	4YUY6	2DYD7
20 in	30 in	12	2HYD5	2HYD6	4YUY7	2GHZ5
24 in	24 in	12	2W235	6B924	4YUY8	2DYE2
25 in	25 in	12	6C518	6B920	4YUY9	2DYE6
4 in Nominal Depth						
12 in	24 in	6	2W238	6B974	4YUZ1	2DYE9
16 in	20 in	6	5W516	6B955	4YUZ2	2DYF4
16 in	25 in	6	5W517	6B949	4YUZ3	2DYF8
18 in	24 in	6	5W518	6B942	4YUZ4	2DYG3
20 in	20 in	6	2W236	6B936	4YUZ5	2DYG7
20 in	24 in	6	5C437	6B932	4YUZ6	2DYH2
20 in	25 in	6	2W237	6B929	4YUZ7	2DYH6
24 in	24 in	6	2W239	6B923	4YUZ8	2DYJ1
25 in	29 in	6	5C436	—	—	—
25 in	29 in	3	—	6B919	4YUZ9	2DYJ4
28 in	30 in	3	5C435	6B918	4YVA1	2DYJ8

Air Handler®

LEED Green-Building-Compliant Pleated Air Filters

- MERV 13
- Standard capacity, except where noted
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Meet the air-filtration efficiency criteria required for earning points toward LEED (Leadership in Energy and Environmental Design) Green Building certification. Slim format allows upgrades from medium-efficiency pleated filtration without investing in new equipment.

Nom. H	Nom. W	Brand	Case Qty.	Item No.
1 in Nominal Depth				
10 in	20 in	Air Handler	12	11C857
10 in	24 in	Air Handler	12	11C858
10 in	25 in	Air Handler	12	11C859
12 in	12 in	Air Handler	12	11C860
12 in	20 in	Air Handler	12	11C861
12 in	24 in	Air Handler	12	11C862
12 in	25 in	Air Handler	12	11C863
14 in	20 in	Air Handler	12	11C864
14 in	24 in	Air Handler	12	11C865
14 in	25 in	Air Handler	12	11C866
15 in	20 in	Air Handler	12	11C867
15 in	25 in	Air Handler	12	11C868
16 in	16 in	Air Handler	12	11C869
16 in	20 in	Air Handler	12	11C870
16 in	24 in	Air Handler	12	11C871
16 in	25 in	Air Handler	12	11C872
18 in	20 in	Air Handler	12	11C873
18 in	24 in	Air Handler	12	11C874
18 in	25 in	Air Handler	12	11C875
20 in	20 in	Air Handler	12	11C876
20 in	20 in	Purafilter	12	60YP49
20 in	20 in	—	12	60RD93
20 in	24 in	Air Handler	12	11C877
20 in	25 in	Air Handler	12	11C878
20 in	30 in	Air Handler	12	11C879
24 in	24 in	Air Handler	12	11C880
25 in	25 in	Air Handler	12	11C881

† High capacity.

Nom. H	Nom. W	Brand	Case Qty.	Item No.
2 in Nominal Depth				
10 in	20 in	Air Handler	12	2EKH5
12 in	20 in	Air Handler	12	54FF09 †
12 in	24 in	Air Handler	12	2EKH6
12 in	24 in	—	12	60RD92
12 in	24 in	Purafilter	12	60YP48
14 in	20 in	Air Handler	12	2EKH7
14 in	25 in	Air Handler	12	2EKH8
16 in	20 in	Air Handler	12	2EKH9
16 in	20 in	Purafilter	12	60YP45
16 in	20 in	—	12	60RD87
16 in	24 in	Air Handler	12	2EKJ1
16 in	25 in	Air Handler	12	2EKJ2
16 in	25 in	Purafilter	12	60YP43
16 in	25 in	—	12	60RD85
18 in	24 in	Air Handler	12	2EKJ3
18 in	25 in	Air Handler	12	2EKJ4
20 in	20 in	Air Handler	12	2EKJ5
20 in	20 in	—	12	60RD86
20 in	20 in	Purafilter	12	60YP44
20 in	24 in	Air Handler	12	2EKJ6
20 in	24 in	Purafilter	12	60YP47
20 in	24 in	—	12	60RD90
20 in	25 in	Air Handler	12	2EKJ7
20 in	25 in	—	12	60RD88
20 in	25 in	Purafilter	12	60YP46
20 in	30 in	Air Handler	12	54FF10
24 in	24 in	Air Handler	12	2EKJ8
24 in	24 in	Purafilter	12	60YP42
24 in	24 in	—	12	60RD84
25 in	25 in	Air Handler	12	2EKJ9
4 in Nominal Depth				
12 in	24 in	Air Handler	6	11C882
16 in	20 in	Air Handler	6	11C883
16 in	25 in	Air Handler	6	11C884
18 in	24 in	Air Handler	6	11C885
20 in	20 in	Air Handler	6	11C886
20 in	24 in	Air Handler	6	11C887
20 in	24 in	—	6	60RD91
20 in	24 in	Purafilter	6	60YP41
20 in	25 in	Air Handler	6	11C888
24 in	24 in	Air Handler	6	11C889
24 in	24 in	Purafilter	6	60YP40
24 in	24 in	—	6	60RD89

Air Handler®

Allergen Reduction Pleated Air Filters

- MERV 12
- Standard capacity
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Electrostatically enhanced to attract even the smallest particles from the air, including microbes, pet dander, mold, and bacteria.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
15 in	20 in	1 in	12	1MBE4
16 in	20 in	1 in	12	1MBE3
20 in	25 in	1 in	12	1MBE2

Air Handler®

High Strength Performance Pleat™ Air Filters

- MERV 8
- High capacity
- Low-resistance synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Extremely strong and durable under difficult operating conditions, including high-moisture applications. Can hold more dust than MERV 8 general use pleated air filters, so they need to be replaced less often. Manufactured with a heavy-duty, galvanized expanded metal support grid and moisture-resistant adhesive.

Nom. H	Nom. W	Case Qty.	Item No.
1 in Nominal Depth			
10 in	20 in	12	495J14
12 in	24 in	12	495J15
16 in	20 in	12	495J16
16 in	25 in	12	495J17
20 in	20 in	12	495J18
20 in	25 in	12	495J19
24 in	24 in	12	495J20
2 in Nominal Depth			
12 in	24 in	12	495J21
16 in	20 in	12	495J22
16 in	25 in	12	495J23
18 in	24 in	12	495J24
20 in	20 in	12	495J25
20 in	24 in	12	495J26
20 in	25 in	12	495J27
24 in	24 in	12	495J28
4 in Nominal Depth			
12 in	24 in	6	495J29
16 in	20 in	6	495J30
16 in	25 in	6	495J31
18 in	24 in	6	495J32
20 in	20 in	6	495J33
20 in	24 in	6	495J35
20 in	25 in	6	495J34
24 in	24 in	6	495J36
25 in	29 in	6	495J37

Air Handler®

High Strength Diamond Pleated Air Filters

- High capacity
- Low-resistance synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Have an internal wire frame that reinforces the filter to prevent it from blowing out in applications where the HVAC system may place increased pressure on the filter due to high velocities or high moisture.

Note: The filter media color may be white or yellow.

Performance Rating	Nom. H	Nom. W	Case Qty.	Item No.
2 in Nominal Depth				
	12 in	20 in	12	3DVN4
	12 in	24 in	12	3GRT2
	14 in	20 in	12	3GRT3
	14 in	25 in	12	3GRT4
MERV 10	16 in	20 in	12	3GRT5
	16 in	24 in	12	3GRT6
	16 in	25 in	12	3GRT7
	18 in	24 in	12	3GRT8
	18 in	25 in	12	3GRT9
MERV 11	20 in	20 in	12	3GRU1
	20 in	24 in	12	3GRU2
MERV 10	20 in	25 in	12	3GRU3
	24 in	24 in	12	3GRU4
	25 in	25 in	12	3GRU5
4 in Nominal Depth				
	12 in	24 in	6	54FF04
	16 in	20 in	6	54FF05
MERV 11	16 in	25 in	6	54FF06
	20 in	25 in	6	54FF07
	24 in	24 in	6	54FF08

Furnace Air Cleaner OEM Replacement Filters

Available in styles that fit most whole house filter cabinets in residential applications. Meet or exceed the operating efficiency of OEM filters. 4E438 requires the original manufacturer's spacers and dividers.

6C529

4E438

Nominal Filter Size	OEM Replacement For	Brand	Pkg. Qty.	Case Qty. (No. of Pkgs. per Case)	Mfr. Model	Item No.	
MERV 8							
16x20x3	Honeywell FC35A1035	Air Handler	2	1	36PR96	**36PR96**	
16x20x5	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-8-2	**35NZ32**	
	Honeywell F100F1004	Air Handler	2	1	36PR99	**36PR99**	
	Honeywell FC100A1029	Air Handler	1	3	2EKL2	**2EKL2**	
	Honeywell FC200E1003	Air Handler	2	1	36PT05	**36PT05**	
	Honeywell FC200E1003	Air Handler	2	1	36PT16	**36PT16**	
16x25x3	Trion Air Bear 255649-101	Air Handler	2	1	36PT11	**36PT11**	
	Trion Air Bear 259112-101, 255649-101	Bestair Pro	2	1	AB-31625-8-2	**35NZ30**	
16x25x5	Honeywell CF100A1009	Air Handler	1	3	2EKL3	**2EKL3**	
	Honeywell CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-8-2	**35NZ33**	
	Honeywell CF200A1008	Air Handler	2	1	36PT15	**36PT15**	
	Honeywell FC35A1001	Air Handler	2	1	36PT06	**36PT06**	
	Trion Air Bear 255649-105, General Mac 4511	Air Handler	2	1	36PT01	**36PT01**	
16x27x6	Aprilaire 401	Air Handler	1	3	2EKL5	**2EKL5**	*
	Aprilaire 401	Air Handler	2	1	36PT18	**36PT18**	*
20x20x5	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-8-2	**35NZ31**	
	Honeywell EXPXXFIL0016	Air Handler	2	1	36PT02	**36PT02**	
	Honeywell F100A1037	Air Handler	1	3	2EKL4	**2EKL4**	
	Honeywell F200A1024	Air Handler	2	1	36PT13	**36PT13**	
	Honeywell FC35A1043	Air Handler	2	1	36PT07	**36PT07**	
20x25x5	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-8-2	**35NZ34**	
	Honeywell FC100A1037	Air Handler	2	1	36PT04	**36PT04**	
	Honeywell FC35A1050	Air Handler	2	1	36PT08	**36PT08**	
	Trion Air Bear 455602-025	Air Handler	1	3	6C529	**6C529**	
	Trion Air Bear 455602-025	Air Handler	2	1	36PT12	**36PT12**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, Braeburn 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-8-2	**35NZ29**	
20x25x6	Aprilaire 201	Air Handler	1	1	4E438	**4E438**	*
	Aprilaire 201	Air Handler	2	1	36PT09	**36PT09**	
	Aprilaire 201	Air Handler	2	1	36PT17	**36PT17**	*
MERV 10							
16x25x4	Honeywell 203719, FC35A1001	Honeywell Home	1	5	FC100A1029	**3TPR7**	
20x20x5	Honeywell 203721	Honeywell Home	1	5	FC100A1011	**3TMZ6**	
MERV 11							
16x20x3	Honeywell FC40R1052	Air Handler	2	1	36PR84	**36PR84**	
16x20x5	Honeywell CF200A1620	Air Handler	2	1	36PR92	**36PR92**	
	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-11-2	**35NZ42**	
	Honeywell FC35A1035	Air Handler	2	1	36PR88	**36PR88**	
16x25x3	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-101, 255649-101	Bestair Pro	2	1	AB-31625-11-2	**35NZ37**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-101, 255649-101	Air Handler	2	1	36PR85	**36PR85**	
16x25x5	Goodman,Amana,York M11056	Bestair Pro	2	1	G5-1625-11-2	**35NZ49**	
	Honeywell CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-11-2	**35NZ44**	
	Honeywell CF200A1008	Air Handler	2	1	36PR93	**36PR93**	
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell Home	1	1	POPUP1625	**3TPT1**	
	Honeywell FC35A1001	Bestair Pro	2	1	NR5-1625-11-2B	**52XR42**	
	Trion Airbear 455602-625	Air Handler	2	1	36PR89	**36PR89**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-105, 255649-105	Bestair Pro	2	1	AB-51625-11-2	**35NZ35**	
16x27x6	Aprilaire Space Gard, Lennox 401	Bestair Pro	2	1	A401-SG4-BOX-11R	**35NZ40**	
	Aprilaire Space Gard 410,413	Bestair Pro	2	1	NRSG411-11-2B	**52XR46**	
16x28x6	Aprilaire Space Gard, Lennox 401	Honeywell Home	1	1	POPUP2400	**3TPT5**	
20x20x3	Carrier GAPCCCAR2020	Air Handler	2	1	36PR86	**36PR86**	
20x20x5	Goodman, Amana, York M21056	Bestair Pro	2	1	G5-2020-11-2	**35NZ50**	
	Honeywell CF200A1024	Air Handler	2	1	36PR94	**36PR94**	
	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-11-2	**35NZ43**	
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell	1	1	POPUP2020	**278Y54**	
	Honeywell FC35A1043	Bestair Pro	2	1	NR5-2020-11-2B	**52XR43**	
	Trion Airbear 455602-725	Air Handler	2	1	36PR90	**36PR90**	
20x25x3	Trion Airbear 455602-925	Air Handler	2	1	36PR87	**36PR87**	
20x25x4	Aprilaire Space Gard, Lennox 210/213	Bestair Pro	2	1	NRSG211-11-2B	**52XR45**	
	Honeywell F100F2010, F150E1034, F100B1032, F100F2038	Honeywell Home	1	5	FC100A1037	**3TPR8**	
20x25x5	Goodman, Amana, York M81056	Bestair Pro	2	1	G5-2025-11-2	**35NZ51**	
	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-11-2	**35NZ45**	
	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell Home	1	1	POPUP2025	**3TPT3**	
	Honeywell FC100A1037	Air Handler	2	1	36PR95	**36PR95**	
	Honeywell FC35A1050	Bestair Pro	2	1	NR5-2025-11-2B	**52XR44**	
	Trion Air Bear 455602-025	Air Handler	2	1	36PT03	**36PT03**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, Braeburn 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-11-2	**35NZ36**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York 455602-525	Air Handler	2	1	36PR91	**36PR91**	
20x25x6	Aprilaire 201	Air Handler	2	1	36PT10	**36PT10**	
	Aprilaire Space Gard, Lennox 201	Bestair Pro	2	1	A201-SGM-BOX-11R	**35NZ39**	
	Aprilaire Space Gard, Lennox 201	Bestair Pro	2	1	SGMPR-2	**35NZ41**	*
21x25x6	Honeywell F100F1004, F100B1008, F150E1000, F100F2028	Honeywell Home	1	1	POPUP2200	**3TPT4**	
28x16x6	Aprilaire Space Gard, Lennox 401	Bestair Pro	2	1	SG4PR-2	**35NZ38**	*
MERV 13							
16x20x5	Honeywell CF200A1620, FC100A1003, FC200E1003, POPUP1620	Bestair Pro	2	1	5-1620-13-2	**35NZ59**	
16x25x5	Honeywell, Lennox CF100A1009, CF100A1041, CF200A1008, FC100A1029, FC200E1029, POPUP1625, CF100A1041, 203719, F35/35R FC35A1001, F100/150 FC100A1026/1029, F200 FC200E1029, 203719	Bestair Pro	2	1	5-1625-13-2	**35NZ61**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York, MAC 259112-105, 255649-105	Bestair Pro	2	1	AB-51625-13-2	**35NZ52**	
20x20x5	Honeywell CF200A1024, FC100A1011, FC200E1011, POPUP2020	Bestair Pro	2	1	5-2020-13-2	**35NZ60**	
20x25x4	Lennox HCXF20-10, HCF20-10, HCF20-16	Bestair Pro	2	1	LN2025-13C	**35NZ63**	
20x25x5	Carrier EXPXXFIL0020, EXPXXUNV0020, EXPXXFIL0320, EXPXXUNV0320	Bestair Pro	2	1	CB2025-13C	**35NZ55**	
	Honeywell 203720, F35/35R FC35A1027, F100/150 FC100A1037, F200 FC200E1037, CF100A1025, CF100A1058, FC100A1037, FC200E1037, POPUP2025	Bestair Pro	2	1	5-2025-13-2	**35NZ62**	
	Trion Air Bear Cub, Lennox, GeneralAire, Skuttle, Source 1/York 259112-102, 255649-102	Bestair Pro	2	1	AB-52025-13-2	**35NZ53**	
24x25x5	Carrier EXPXXFIL0324, EXPXXUNV0324, EXPXXFIL0024, EXPXXUNV024	Bestair Pro	2	1	CB2425-13R-2	**35NZ56**	
25x16x5	Carrier EXPXXFIL0016, EXPXXUNV0016, EXPXXFIL0316, EXPXXUNV0316	Bestair Pro	2	1	CB1625-13C	**35NZ54**	

***** *Refill media only.***

For more information on MERV, see page 3047

AirHandler® Antimicrobial Pleated Air Filters

- MERV 8
- High capacity
- Synthetic media
- Moisture-resistant die-cut beverage board frame
- Wire-backed design
- UL Classified

Treated with an antimicrobial agent that prevents mold and mildew from growing on the air filter. Ideal for commercial buildings, healthcare facilities, and locations where moisture is present and mold or mildew may grow on standard filters.

Nom. H	Nom. W	Case Qty.	Item No.
1 in Nominal Depth			
8 in	16 in	12	2EJZ6
8 in	30 in	12	3DVK4
10 in	10 in	12	2EJZ7
10 in	20 in	12	2EJZ8
10 in	24 in	12	2EJZ9
10 in	25 in	12	2EKA1
10 in	30 in	12	3DVK5
12 in	12 in	12	2EKA2
12 in	16 in	12	2EKA3
12 in	18 in	12	3DVK6
12 in	20 in	12	2EKA4
12 in	24 in	12	2EKA5
12 in	25 in	12	2EKA6
12 in	30 in	12	3DVK7
14 in	20 in	12	2EKA7
14 in	24 in	12	2EKA8
14 in	25 in	12	2EKA9
14 in	30 in	12	3GUY2
15 in	20 in	12	2EKC1
15 in	25 in	12	2EKC2
15 in	30 in	12	3DVK9
15 in	31 in	12	3DVL1
16 in	16 in	12	2EKC3
16 in	20 in	12	2EKC4
16 in	23 in	12	3GUY3
16 in	24 in	12	2EKC5
16 in	25 in	12	2EKC6
16 in	30 in	12	3DVL2
18 in	18 in	12	2EKC7
18 in	20 in	12	2EKC8
18 in	22 in	12	2EKC9
18 in	24 in	12	2EKD1
18 in	25 in	12	2EKD2
19 in	27 in	12	3DVL3
20 in	20 in	12	2EKD3
20 in	23 in	12	3GUY4
20 in	24 in	12	2EKD4
20 in	25 in	12	2EKD5
20 in	30 in	12	2EKD6
22 in	22 in	12	2EKD7
22 in	25 in	12	3DVL4
24 in	24 in	12	2EKD8
24 in	30 in	12	3DVL5
25 in	25 in	12	2EKD9
2 in Nominal Depth			
10 in	10 in	12	2EKE1
10 in	20 in	12	2EKE2
12 in	20 in	12	2EKE3
12 in	24 in	12	2EKE4
14 in	20 in	12	2EKE5
14 in	25 in	12	2EKE6
15 in	20 in	12	2EKE7
16 in	16 in	12	2EKE8
16 in	20 in	12	2EKE9
16 in	24 in	12	2EKF1
16 in	25 in	12	2EKF2
18 in	18 in	12	3DVL6
18 in	20 in	12	2EKF5
18 in	22 in	12	2EKF3
18 in	24 in	12	2EKF4
18 in	25 in	12	2EKF6
20 in	20 in	12	2EKF7
20 in	24 in	12	2EKF8
20 in	25 in	12	2EKF9
20 in	30 in	12	2EKG1
24 in	24 in	12	2EKG2
25 in	25 in	12	2EKG3
4 in Nominal Depth			
12 in	24 in	6	2EKG4
16 in	20 in	6	2EKG5
16 in	25 in	6	2EKG6
18 in	24 in	6	2EKG7
20 in	20 in	6	2EKG8
20 in	24 in	6	2EKG9
20 in	25 in	6	2EKH1
24 in	24 in	6	2EKH2
25 in	29 in	6	2EKH3
28 in	30 in	6	2EKH4

AirHandler® Odor Removal Panel Air Filters

- Moisture-resistant die-cut beverage board frame
- ASHRAE compliant

Activated charcoal absorbs unpleasant odors and other gaseous contaminants in the air stream to improve indoor air quality.

For Nuisance Odors, Pleated, Impregnated Carbon—Ideal for removing nuisance odors such as pet smells, tobacco smoke, food odors, and mustiness from the air.

- Carbon concentration: 20 g/sq. ft.

Nom. H	Nom. W	Case Qty.	Item No.
For Nuisance Odors, Pleated			
1 in Nominal Depth			
12 in	25 in	12	54FE91
2 in Nominal Depth			
16 in	16 in	12	54FE92
For Nuisance Odors, Pleated, Impregnated Carbon			
1 in Nominal Depth			
12 in	12 in	12	6B912
12 in	20 in	12	6B911
12 in	24 in	12	6B910
14 in	24 in	12	6B905
14 in	25 in	12	6B904
15 in	20 in	12	6B902
16 in	16 in	12	6B900
16 in	20 in	12	6B899
16 in	25 in	12	6B894
18 in	24 in	12	6B890
18 in	25 in	12	6B887
20 in	20 in	12	6B886
20 in	25 in	12	6B880
22 in	22 in	12	6B877
24 in	24 in	12	6B876
2 in Nominal Depth			
12 in	24 in	12	6B909
14 in	20 in	12	6B906
14 in	25 in	12	6B903
16 in	20 in	12	6B898
16 in	24 in	12	6B895
16 in	25 in	12	6B893
18 in	24 in	12	6B889
20 in	20 in	12	6B885
20 in	24 in	12	6B882
20 in	25 in	12	6B879
24 in	24 in	12	6B875
4 in Nominal Depth			
12 in	24 in	6	6B908
16 in	25 in	6	6B892
20 in	20 in	6	6B884
20 in	24 in	6	6B881
20 in	25 in	6	6B878
24 in	24 in	6	6B874

For VOCs and Exhaust Fumes, Non-Pleated, Active Carbon Honeycomb—Use to trap odors, VOCs (volatile organic compounds, such as fumes given off by paint or cleaning chemicals), exhaust fumes, and other gaseous contaminants. Commonly used in industrial areas to remove unpleasant smells in the air and capture harmful airborne pollutants to improve indoor air quality.

- Carbon concentration: 0.45 g/mL

Nom. H	Nom. W	Case Qty.	Item No.
For VOCs & Exhaust Fumes, Non-Pleated, Active Carbon Honeycomb			
1 in Nominal Depth			
10 in	10 in	4	6B869
12 in	24 in	4	6W735
14 in	25 in	4	6B861
16 in	16 in	4	6B857
16 in	20 in	4	6W736
16 in	24 in	4	6B856
16 in	25 in	4	6W737
20 in	20 in	4	6W738
20 in	25 in	4	6W739
24 in	24 in	4	6W740
2 in Nominal Depth			
12 in	24 in	4	6W741
16 in	20 in	4	6W742
16 in	25 in	4	6W743
18 in	24 in	4	6B852
20 in	20 in	4	6W744
20 in	25 in	4	6W745
24 in	24 in	4	6W746
25 in	25 in	4	6B846

AirHandler® Hydrophobic Pleated Air Filters

- MERV 8
- High capacity
- Synthetic media
- Plastic frame with mesh support
- UL Classified

Filters not only remove contaminants from the air, they also remove moisture from the air. Commonly used to filter the air intake in dehumidification and swimming pool equipment.

Nom. H	Nom. W	Nom. D	Item No.
24 in	24 in	2 in	39AM09
24 in	24 in	4 in	39AM08

AirHandler® High-Temperature Pleated Air Filters

- MERV 8
- Standard capacity
- Synthetic media
- Galvanized steel frame
- Wire-backed design
- Max. temp.: 400°F
- UL Classified

Withstand higher temperatures than other types of pleated air filters. Suitable for air intakes on drying ovens and other high-temperature baking applications.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
12 in	24 in	2 in	12	5M326
16 in	20 in	2 in	12	5M327
16 in	25 in	2 in	12	5M316
20 in	20 in	2 in	12	5M329
20 in	25 in	2 in	12	5M330
24 in	24 in	2 in	12	5M331

491H16

1W097

AirHandler®

Non-Pleated Panel Air Filters

- Chipboard frame; polyester filters have metal grid on one side
- UL Classified

Tackifier on upstream side improves particulate capture while polyester filters do not shed fibers. All filters are commonly used in furnace and central air systems in residential and commercial buildings where basic filtration is required.

Nom. H	Nom. W	Case Qty.	Item No.
MERV 4, Polyester-Coated Fiberglass, 1 in Nominal Depth			
8 in	16 in	12	491H16
8 in	30 in	12	491H28
10 in	25 in	12	491H30
14 in	14 in	12	491H71
24 in	30 in	12	491H53
MERV 5, Fiberglass, 1 in Nominal Depth			
8 in	16 in	12	5W499
8 in	30 in	12	5W980
10 in	10 in	12	5W500
10 in	14 in	12	2JBG6
10 in	16 in	12	3TPY9
10 in	20 in	12	1W304
10 in	24 in	12	5C447
10 in	25 in	12	5C448
10 in	30 in	12	5C449
12 in	12 in	12	5W501
12 in	16 in	12	5C450
12 in	18 in	12	5E891
12 in	20 in	12	5C451
12 in	24 in	12	5W502
12 in	25 in	12	5C452
12 in	30 in	12	5W981
12 in	31 in	12	5W982
14 in	14 in	12	2JBG4
14 in	20 in	12	2W015
14 in	24 in	12	5C453
14 in	25 in	12	2W016
14 in	30 in	12	5W983
15 in	20 in	12	1W506
15 in	25 in	12	5C454
15 in	30 in	12	5W984
15 in	31 in	12	5W985
16 in	16 in	12	5C455
16 in	20 in	12	1W099
16 in	23 in	12	5W986
16 in	24 in	12	5C456
16 in	25 in	12	1W098
16 in	26 in	12	6U689
18 in	18 in	12	5W987
18 in	20 in	12	5C457
18 in	24 in	12	5C458
18 in	25 in	12	5W503
19 in	27 in	12	5C459
20 in	20 in	12	1W097
20 in	23 in	12	5W988
20 in	24 in	12	5C460
20 in	25 in	12	1W096
20 in	29 in	12	6U688
20 in	30 in	12	5C461
20 in	36 in	12	2JBG5
22 in	22 in	12	5C462
22 in	25 in	12	5W989
24 in	24 in	12	5W504
24 in	30 in	12	5C463
25 in	25 in	12	1W507
MERV 5, Fiberglass, 2 in Nominal Depth			
16 in	16 in	12	6U690

AirHandler®

Washable Electrostatic Air Filters

- MERV 5
- Polypropylene media
- Aluminum frame
- UL Classified

Filters naturally create a static charge as air moves through the filter, and the charge attracts tiny particles such as dust and pet dander. Permanent, fit into existing filter tracks, and have an arrestance rate of 90%.

Nom. H	Nom. W	1 in NOM. DEPTH Item No.	2 in NOM. DEPTH Item No.
10 in	10 in	6B709	—
10 in	20 in	5W997	—
12 in	24 in	5W999	6B706
14 in	20 in	6W730	—
14 in	25 in	6W731	—
16 in	16 in	6B701	—
16 in	20 in	5W894	5W898
16 in	24 in	6B700	6B699
16 in	25 in	5W895	5W899
20 in	20 in	5W896	5W900
20 in	24 in	6B694	6B693
20 in	25 in	5W897	5W901
24 in	24 in	6W733	6B691
25 in	25 in	—	6B690

AirHandler®

Fan Shroud Air Filters

- MERV 4
- Polyester media

Fit over standard guards on air circulator fans to filter the air before it enters the fan. Also known as circular fan filters, they trap large airborne particles from the air stream to prevent them from building up on the fan blades. Elastic gathering band and hook-and-loop closure.

Fits Fan Guard Dia.	Case Qty.	Item No.
18 in	12	36WX63
24 in to 26 in	12	2TE89
30 in	12	2TE90
32 in	12	2TE91
36 in	12	2TE92
40 in to 42 in	12	2TE93

Use Auto-Reorder for the Easy Way to Order Filters

Don't run out of the filters you need. Set up an ordering schedule that works for you, and let Auto-Reorder handle the rest. Get email notifications before your order is automatically replaced and adjust or cancel orders anytime.

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AirHandler®

For more information on MERV, see page 3047

6B802

6B791

Air Handler®

Ring Panel and Link Air Filters

- MERV 8
- Synthetic media
- UL Classified

Consist of layered polyester filter media with a metal wire that is heat-sealed around the inside edges to hold the media open. The filter media wraps around the wire to ensure a positive seal when the filter is installed so that air doesn't bypass the filter. Unlike standard panel air filters they don't require clips or latches to seal them in place. Suitable for high moisture or high air flow applications and commonly used in commercial buildings, schools, universities, and areas where surface finishing is performed.

Nom. H	Section Width	Case Qty.	2-PLY Item No.	3-PLY Item No.
Ring Panel Air Filters				
10 in	10 in	24	**33E907**	**6B833**
10 in	20 in	24	**2DXV7**	**6B832**
12 in	12 in	24	—	**6B831**
12 in	16 in	24	**54FE75**	—
12 in	20 in	24	**2DXW1**	**6B830**
12 in	24 in	24	**2DXR7**	**6B829**
14 in	20 in	24	**2DXW4**	**6B827**
14 in	25 in	24	**2DXY7**	**6B825**
15 in	20 in	24	**2DXT1**	**6B824**
16 in	16 in	24	**2DXT7**	**6B821**
16 in	20 in	24	**2DXU4**	**6B818**
16 in	24 in	24	**2DXV1**	**6B815**
16 in	25 in	24	**2DXV4**	**6B813**
18 in	20 in	24	**33E909**	**6B811**
18 in	24 in	24	**2DXY1**	**6B810**
18 in	25 in	24	**2DXZ1**	**6B809**
20 in	20 in	24	**2DXW7**	**6B803**
20 in	24 in	24	**2DXX4**	**6B800**
20 in	25 in	24	**2DXX7**	**6B798**
22 in	22 in	24	**33E910**	**6B796**
24 in	24 in	24	**2DXY4**	**6B791**
25 in	25 in	24	**2DXZ7**	**6B784**

Nom. H	Section Width	Link Filter Total L	No. of Sections	Case Qty.	Item No.
Link Air Filters, 2-Ply					
14 in	4.1875 in	50 in	12	1	**54FE74**
20 in	20 in	20 in	1	24	**2GFW2**
20 in	20 in	100 in	5	4	**2GGU2**
20 in	20 in	120 in	6	4	**2GGX7**
20 in	25 in	200 in	8	3	**2GGK3**
24 in	24 in	120 in	5	4	**2GHX6**
Link Air Filters, 3-Ply					
12 in	24 in	576 in	24	1	**6B828**
16 in	20 in	480 in	24	1	**6B817**
16 in	22 in	528 in	24	1	**6B816**
16 in	24 in	96 in	4	6	**2DWD8**
16 in	24 in	576 in	24	1	**6B814**
16 in	25 in	600 in	24	1	**6B812**
20 in	13 in	336 in	24	1	**6B808**
20 in	16 in	384 in	24	1	**6B804**
20 in	20 in	20 in	1	24	**2JVP2**
20 in	20 in	480 in	24	1	**6B802**
20 in	22 in	528 in	24	1	**6B801**
20 in	24 in	96 in	4	6	**2DWL6**
20 in	24 in	120 in	5	4	**2JVC8**
20 in	24 in	576 in	24	1	**6B799**
20 in	25 in	100 in	4	6	**2DWN2**
20 in	25 in	600 in	24	1	**6B797**
20 in	30 in	120 in	4	4	**2DWN7**
24 in	16 in	384 in	24	1	**6B794**
24 in	18 in	432 in	24	1	**6B793**
24 in	20 in	120 in	6	6	**54FE76**
24 in	20 in	480 in	24	1	**6B792**
24 in	24 in	24 in	1	24	**2GHH3**
24 in	24 in	576 in	24	1	**6B790**
25 in	16 in	384 in	24	1	**6B788**
25 in	18 in	432 in	24	1	**6B787**
25 in	22 in	528 in	24	1	**6B785**
25 in	25 in	600 in	24	1	**6B783**

Air Handler®

Washable Grease Collection Baffle Air Filters

- Self-draining; handles included
- UL Classified

Metal air filters are washable, reusable, and have a metal frame and metal mesh filter media. They're installed in self-draining style commercial kitchen hoods to trap airborne grease before it reaches the exhaust fan, and to prevent grease from accumulating on the fan and the exterior building surface where the fan vents. Permanent filters balance airflow evenly throughout exhaust hoods in commercial kitchen applications and can be used to replace mesh filters in older hoods.

4C882

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Stainless Steel					
16 in	20 in	2 in	1 ¾ in	2	**2EJY5**
16 in	25 in	2 in	1 ¾ in	2	**2EJY6**
20 in	16 in	2 in	1 ¾ in	2	**2EJY7**
20 in	20 in	2 in	1 ¾ in	2	**2EJY8**
20 in	25 in	2 in	1 ¾ in	2	**2EJY9**
25 in	16 in	2 in	1 ¾ in	2	**2EJZ1**
25 in	20 in	2 in	1 ¾ in	2	**2EJZ2**

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Galvanized Steel					
16 in	20 in	2 in	1 ¾ in	2	**4C880**
16 in	25 in	2 in	1 ¾ in	2	**4C881**
20 in	16 in	2 in	1 ¾ in	2	**5C107**
20 in	20 in	2 in	1 ¾ in	2	**4C882**
20 in	25 in	2 in	1 ¾ in	2	**4C883**
25 in	16 in	2 in	1 ¾ in	2	**5C108**
25 in	20 in	2 in	1 ¾ in	2	**5C109**

Air Handler®

Washable Mesh Air Filters

- UL Classified

General use mesh filters have a metal frame, metal mesh filter media, and prevent large airborne particles such as dust, leaves, and pests from entering and damaging HVAC equipment. They can be vacuumed, sprayed, or run through a dishwasher for cleaning and reused. Optional handles attach to filter. Air filters are suitable for use with Carrier, MicroMetl, Trane, York, and other systems.

2GGR5

Aluminum—Rustproof; constructed of multiple layers of corrugated aluminum wire mesh in a heavy-gauge aluminum U-channel frame.

Galvanized Steel—Constructed of multiple layers of expanded corrugated steel mesh and a galvanized steel frame. Not recommended for outdoor applications.

4C410

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Aluminum					
16 in	16 in	1 in	⅞ in	12	**2GFR2**
16 in	20 in	1 in	½ in	12	**2GGP6**
16 in	20 in	1 in	⅞ in	2	**2TE94**
16 in	25 in	1 in	½ in	12	**2GGR1**
16 in	25 in	1 in	⅞ in	2	**2TE95**
20 in	20 in	1 in	½ in	12	**2GGR5**
20 in	20 in	1 in	⅞ in	2	**2TE96**
20 in	25 in	1 in	½ in	12	**2GGR9**
20 in	25 in	1 in	⅞ in	2	**2GGT8**
24 in	24 in	1 in	½ in	12	**2GGT4**
24 in	24 in	1 in	⅞ in	2	**2GGU3**
16 in	20 in	2 in	1 ¾ in	2	**2TE97**
16 in	25 in	2 in	1 ¾ in	2	**2TE98**
20 in	20 in	2 in	1 ¾ in	2	**2TE99**
20 in	25 in	2 in	1 ¾ in	2	**2TJ10**
24 in	24 in	2 in	1 ¾ in	2	**2TJ11**

Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Galvanized Steel					
20 in	20 in	1 in	⅞ in	12	**2GFR6**
20 in	25 in	1 in	⅞ in	12	**2GFR9**
24 in	24 in	1 in	⅞ in	12	**2GFT4**
10 in	20 in	2 in	1 ¾ in	2	**4C405**
16 in	20 in	2 in	1 ¾ in	2	**4C406**
16 in	25 in	2 in	1 ¾ in	2	**4C407**
20 in	20 in	2 in	1 ¾ in	2	**4C408**
20 in	25 in	2 in	1 ¾ in	2	**4C409**
24 in	24 in	2 in	1 ¾ in	2	**2GFT8**
Optional Air Filter Handles					
Metal Air Filter Handles				12	**4C410**

Air Handler®

Washable Range Hood Mesh Air Filters

- Aluminum media and frame
- UL Classified

These washable and reusable filters install in kitchen range hoods to remove odors and trap grease before it reaches the exhaust fan. This prevents grease from accumulating on the exhaust fan. Suitable for use with microwave range hoods and both ductless and ducted exhaust hoods. Replace OEM filters for popular brands.

6JKA5

6JKC6

For Use With (Systems)	Nom. H	Nom. W	Nom. D	Actual D	Case Qty.	Item No.
Rectangular						
Broan	9 in	11 in	1 in	⅜ in	10	**6JKC3**
Broan, Caloric, Nautilus, Roper, Sears	9 in	11 in	1 in	⅜ in	10	**6JKA5**
Broan, Caloric, Nautilus, Roper, Sears, Tappan	9 in	11 in	1 in	⅜ in	10	**6JKA7**
Broan, NuTone, Whirlpool	12 in	12 in	1 in	⅜ in	10	**6JKC5**
GE Hotpoint	9 in	10 in	1 in	3/32 in	10	**6JKC1**
GE Hotpoint, NuTone	11 in	12 in	1 in	⅜ in	10	**6JKA8**
Kitch N Vent, NuTone, Ventrola	9 in	12 in	1 in	⅜ in	10	**6JKA6**
Whirlpool	6 in	8 in	1 in	3/32 in	10	**6JKC0**
Whirlpool	12 in	12 in	1 in	⅜ in	10	**6JKC4**
Round						
Aubrey, Broan, Miami Carey, Nautilus, NuTone	10 in	10 in	1 in	3/32 in	10	**6JKC6**
Broan, GE, Nautilus	11 in	11 in	1 in	3/32 in	10	**6JKA9**

6B778

AirHandler®

Cube Air Filters

- MERV 8
- Synthetic media
- UL Classified

These bag-like filters hold more particles than non-pleated panel and ring panel air filters and have layered synthetic filter media that won't deteriorate or warp in wet or humid conditions. Three-ply cube air filters have three layers of blue/white synthetic filter media that are heat-sealed together and are tacky to the touch. Ideal for replacing older cube-style air filters or basket-type filters in HVAC equipment. Filters are good for low-efficiency air filtration in paint booths, mining sites, and other areas with heavy dust or high humidity.

Nom. H	Nom. W	Nom. D	No. of Pockets	Case Qty.	Item No.
12 in	24 in	10 in	1	6	**6B782**
24 in	24 in		1	6	**6B778**
12 in	24 in	15 in	1	6	**5W905**
20 in	24 in		1	6	**6B780**
24 in	24 in		1	6	**5W904**
12 in	24 in	20 in	1	6	**5W903**
24 in	24 in		1	6	**5W902**

AirHandler®

Pocket Air Filters

- UL Classified

Pocket air filters, also called bag filters, have a bag-like filter element that is stitched into pockets. They trap more particles than nonpleated panel filters and need to be changed less often. Pocket dividers with reinforced media-support backing add to overall strength. Filters are best suited for applications where air is constantly flowing through the filter since they may deposit some captured material back into the air stream when they deflate. 13⁄16", 24-ga. galvanized steel frame. Often installed in HVAC systems in auto shops, data centers, food and beverage plants, industrial sites, and schools.

6B626

SYNTHETIC MEDIA

Does not shed fibers and suitable for high-humidity applications.

FIBERGLASS MEDIA

Ultrafine fiberglass media specifically designed for each efficiency range.

				SYNTHETIC		FIBERGLASS	
Nom. H	Nom. W	Nom. D	No. of Pockets	Case Qty.	Item No.	Case Qty.	Item No.
MERV 14, Yellow, 90% to 95% Efficiency†							
24 in	24 in	12 in	6	4	**2JUW6**	4	**33E969**
24 in	24 in		8	12	**2JUV7**	—	—
20 in	20 in	15 in	6	4	**2JUX3**	—	—
24 in	12 in		3	4	**2JUX9**	4	**2GGX5**
24 in	12 in		4	8	**2JUX5**	2	**3DVP5**
24 in	20 in		6	4	**2JUX1**	—	—
24 in	24 in		6	4	**2JUX7**	4	**2JRT7**
24 in	24 in		8	4	**2JUW8**	—	—
24 in	12 in	18 in	3	2	**6B669**	2	**5E845**
24 in	24 in		6	2	**6B642**	2	**5E841**
24 in	12 in	22 in	3	2	**6B668**	2	**5E844**
24 in	24 in		6	2	**6B641**	2	**5E840**
24 in	24 in		8	2	**6B628**	2	**5E839**
24 in	24 in		10	4	**2JWA3**	4	**2DVX1**
24 in	12 in	29 in	4	2	**6B659**	2	**5W429**
24 in	20 in		7	2	**6B636**	—	—
24 in	24 in		6	2	**6B640**	2	**5E838**
24 in	24 in		8	2	**6B627**	2	**5W427**
24 in	12 in	36 in	4	2	**6B658**	2	**5E842**
24 in	24 in		6	2	**6B639**	2	**5W426**
24 in	24 in		8	2	**6B626**	2	**5E836**
24 in	24 in		8	—	—	4	**54FF15**
MERV 13, Pink, 80% to 85% Efficiency†							
24 in	24 in	12 in	6	4	**2JVD2**	4	**2ACC3**
20 in	20 in	15 in	6	4	**2JVD8**	1	**3DVN7**
24 in	12 in		3	8	**2JVE5**	4	**2GHC5**
24 in	12 in		4	8	**2JVE1**	8	**3DVN8**
24 in	20 in		6	4	**2JVD6**	4	**3DVN9**
24 in	24 in		6	4	**2JVE3**	4	**2GHR1**
24 in	24 in		8	4	**2JVD4**	2	**3DVP2**
12 in	12 in	18 in	3	2	**6B673**	—	—
24 in	12 in		3	—	—	2	**5E850**
24 in	24 in		6	2	**6B646**	2	**5E848**
24 in	24 in		10	4	**3XJ73**	4	**3DVP3**
24 in	12 in	22 in	3	2	**6B672**	8	**2GHA6**
24 in	12 in		4	2	**6B662**	2	**5W438**
24 in	24 in		6	2	**6B645**	2	**5W434**
24 in	24 in		8	4	**6B631**	2	**5W433**
24 in	24 in		10	4	**3XJ75**	4	**2DVU6**
24 in	12 in	29 in	4	2	**6B661**	2	**5W436**
24 in	20 in		7	2	**6B637**	—	—
24 in	24 in		6	2	**6B644**	2	**5W432**
24 in	24 in		8	4	**6B630**	2	**5W431**
24 in	12 in	36 in	3	2	**6B670**	—	—
24 in	24 in		6	4	**6B643**	2	**5W430**
MERV 11, Orange, 60% to 65% Efficiency†							
24 in	24 in	12 in	6	4	**2JVJ3**	4	**33E970**
24 in	24 in		8	4	**2JVH4**	4	**33E971**
24 in	12 in	18 in	3	2	**6B677**	2	**5E858**
24 in	24 in		6	4	**6B650**	2	**5E855**
24 in	12 in	22 in	3	8	**6B676**	2	**5W447**
24 in	12 in		4	4	**6B665**	2	**5W446**
24 in	20 in		7	4	**6B638**	4	**3DVN6**
24 in	24 in		6	4	**6B649**	2	**5W443**
24 in	24 in		8	4	**6B634**	2	**5W442**
24 in	12 in	29 in	4	2	**6B664**	2	**5W445**
24 in	20 in		7	4	**3DVN5**	2	**5E859**
24 in	24 in		6	4	**6B648**	2	**5E854**
24 in	24 in		8	2	**6B633**	2	**5W441**
24 in	24 in	30 in	8	4	**5M437**	—	—
MERV 8, White (Synthetic), Yellow/Tan (Fiberglass), 45% to 55% Efficiency†							
24 in	12 in	10 in	3	—	—	2	**5E865**
24 in	24 in		6	—	—	2	**5E864**
24 in	24 in	12 in	6	2	**5M410**	—	—
20 in	20 in	14 in	5	2	**6B657**	2	**5E863**
24 in	12 in		3	2	**6B679**	2	**5W451**
24 in	20 in		5	2	**6B655**	—	—
24 in	24 in		6	2	**6B652**	2	**5W450**
25 in	20 in	15 in	5	—	—	2	**5E862**
20 in	20 in	21 in	5	—	—	2	**5E861**
24 in	12 in		3	—	—	2	**5W449**
24 in	24 in		6	2	**6B651**	2	**5W448**

† Average Efficiency (%) ASHRAE 52.1-1992.

For air filter gasketing, see page 3055 or go to Grainger.com

Minipleat Air Filters AirHandler®

Rigid frame can withstand difficult operating conditions such as variable air volume, turbulent airflow, and high humidity. They have tightly pleated filter media that traps particles with high efficiency and are commonly installed in HVAC systems in offices, hospitals, museums, electronics manufacturing, and similar settings.

4YVE9

Perf. Rating	Filter Eff.	Nom. H	Nom. W	Case Qty.	Item No.
2 in Nom. Depth, Synthetic Media, Bev. Board Frame, No Header					
MERV 14	95 %	14 in	25 in	6	4YVD5
		16 in	24 in	6	4YVD9
		18 in	20 in	6	4YVE2
2 in Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65 %	10 in	10 in	6	33E949
		10 in	20 in	6	33E950
		12 in	24 in	6	33E952
		16 in	16 in	6	33E956
		16 in	25 in	6	33E959
		18 in	24 in	6	33E961
		18 in	25 in	6	33E962
		20 in	20 in	6	33E963
		20 in	24 in	6	33E964
		24 in	24 in	6	33E967
MERV 14	95 %	10 in	10 in	6	4YVC9
		10 in	20 in	6	4YVD1
		12 in	24 in	6	4YVD3
		16 in	16 in	6	4YVD7
		16 in	20 in	6	4YVD8
		16 in	25 in	6	4YVE1
		18 in	24 in	6	4YVE3
		18 in	25 in	6	4YVE4
		20 in	20 in	6	4YVE5
		20 in	24 in	6	4YVE6
		20 in	25 in	6	4YVE7
		24 in	24 in	6	4YVE9
4 in Nom. Depth, Fiberglass Media, Bev. Board Frame, No Header					
MERV 11	60% to 65%	12 in	24 in	2	6B613
		16 in	20 in	2	6B612
		18 in	24 in	2	6B610
		20 in	20 in	2	6B609
		20 in	24 in	2	6B608
		20 in	25 in	2	6B607
		24 in	24 in	2	6B606
MERV 13	80% to 85%	12 in	24 in	2	6B605
		16 in	20 in	2	6B604
		16 in	25 in	2	6B603
		20 in	20 in	2	6B601
		20 in	24 in	2	6B600
		20 in	25 in	3	6B599
		24 in	24 in	2	6B598
4 in Nom. Depth, Fiberglass Media, Bev. Board Frame, No Header (Cont.)					
MERV 14	90% to 95%	12 in	24 in	2	6B597
		16 in	20 in	2	6B596
		16 in	25 in	3	6B595
		18 in	24 in	2	6B594
		20 in	20 in	2	6B593
		20 in	24 in	2	6B592
		20 in	25 in	2	6B591
		24 in	24 in	2	6B590
4 in Nom. Depth, Fiberglass Media, Metal Frame, No Header					
MERV 13	80% to 85%	24 in	24 in	2	5E895
MERV 14	90% to 95%	24 in	24 in	2	5E898
	95 %	20 in	24 in	3	2GFN2
		24 in	24 in	3	2GFN6
4 in Nom. Depth, Fiberglass Media, Metal Frame, Single Header					
MERV 11	65 %	20 in	20 in	3	2GFH4
		20 in	24 in	3	2GFH8
		24 in	24 in	3	2GFJ3
4 in Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65 %	20 in	20 in	3	2GFW7
		20 in	24 in	3	2GFX2
		24 in	24 in	3	2GFX6
MERV 13	85 %	12 in	24 in	3	2GFY1
		20 in	24 in	3	2GFY9
		24 in	24 in	3	2GFZ4
MERV 14	95 %	12 in	24 in	3	2GFZ8
		20 in	20 in	3	2GGA2
		20 in	24 in	3	2GGA7
		24 in	24 in	3	2GGC1
4 in Nom. Depth, Synthetic Media, Plastic Frame, Single Header					
MERV 11	65 %	12 in	24 in	3	2GFA7
		20 in	20 in	3	2GFC2
		20 in	24 in	3	2GFC6
		24 in	24 in	3	2GFD1
MERV 13	85 %	12 in	24 in	3	2GFD5
		24 in	24 in	3	2GFE7
MERV 14	95 %	12 in	24 in	3	2GFF2
		20 in	20 in	3	2GFF6
		20 in	24 in	3	2GFG1
		24 in	24 in	3	2GFG5
6 in Nom. Depth, Synthetic Media, Plastic Frame, No Header					
MERV 11	65 %	12 in	24 in	1	33NR95
		20 in	20 in	1	52RR10
		20 in	24 in	1	52RR09
		24 in	24 in	1	33NR94
MERV 14	95 %	12 in	24 in	1	33NR91
		20 in	20 in	1	52RR06
		20 in	24 in	1	52RR05
		24 in	24 in	1	33NR90
6 in Nom. Depth, Synthetic Media, Plastic Frame, Single Header					
MERV 11	65 %	12 in	24 in	1	33NR93
		20 in	20 in	1	52RR08
		20 in	24 in	1	52RR07
		24 in	24 in	1	33NR92
MERV 14	95 %	12 in	24 in	1	33NR89
		20 in	20 in	1	52RR04
		20 in	24 in	1	52RR03
		24 in	24 in	1	33NR88
12 in Nom. Depth, Fiberglass Media, Galv. Steel Frame, No Header					
MERV 14	95 %	12 in	24 in	1	20HN67
		24 in	24 in	1	20HN66
12 in Nom. Depth, Fiberglass Media, Galv. Steel Frame, Single Header					
MERV 14	95 %	12 in	24 in	1	20HN73
		24 in	24 in	1	20HN72
12 in Nom. Depth, Fiberglass Media, Plastic Frame, No Header					
MERV 14	95 %	12 in	24 in	1	20HN63
		20 in	20 in	1	20HN64
		20 in	24 in	1	20HN65
		24 in	24 in	1	20HN62
12 in Nom. Depth, Fiberglass Media, Plastic Frame, Single Header					
MERV 14	95 %	12 in	24 in	1	20HN69
		20 in	20 in	1	20HN70
		20 in	24 in	1	20HN71
		24 in	24 in	1	20HN68

AirHandler® Minipleat Air Filters with Gasket

499J13

- Synthetic media
- Rugged plastic frame
- UL Classified

Gaskets provide sealing to minimize air bypass and a tightly pleated filter media that traps particles with high efficiency. Filters have a rigid frame that can withstand difficult operating conditions such as variable air volume, turbulent airflow, and high humidity. They are commonly installed in HVAC systems in offices, hospitals, museums, electronics manufacturing, and similar applications.

Nom. H	Nom. W	Case Qty.	GASKET: 2 SIDES Item No.	GASKET: DOWNSTREAM FACE Item No.
2 in Nom. Depth, MERV 11, 60% to 65% Efficiency				
12 in	24 in	6	499J14	499J13
16 in	20 in	6	499J16	499J15
16 in	25 in	6	499J18	499J17
20 in	20 in	6	499J20	499J19
20 in	24 in	6	499J22	499J21
20 in	25 in	6	499J24	499J23
24 in	24 in	6	499J26	499J25
2 in Nom. Depth, MERV 13, 80% to 85% Efficiency				
12 in	20 in	6	499J28	499J27
12 in	24 in	6	499J30	499J29
16 in	20 in	6	499J32	499J31
16 in	25 in	6	499J34	499J33
20 in	20 in	6	499J36	499J35
20 in	24 in	6	499J38	499J37
20 in	25 in	6	499J40	499J39
24 in	24 in	6	499J42	499J41
2 in Nom. Depth, MERV 14, 90% to 95% Efficiency				
12 in	24 in	6	499J44	499J43
16 in	20 in	6	499J46	499J45
16 in	25 in	6	499J48	499J47
20 in	20 in	6	499J50	499J49
20 in	24 in	6	499J52	499J51
20 in	25 in	6	499J54	499J53
24 in	24 in	6	499J56	499J55

AirHandler® Rigid Cell Air Filters

- Ultrafine fiberglass or synthetic media, nylon-reinforced on the air-exit side
- Reinforced galvanized-steel frame
- Replace conventional pocket and rigid filters
- UL Classified

5W915

The filters' rigid frame can withstand fluctuations in airflow, making them ideal for variable-volume HVAC systems. Metal grid and media stabilizers maintain pleat configuration. Filters are for use in commercial buildings, schools, hospitals, arenas, and industrial installations.

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Case Qty.	FIBERGLASS, NO HEADER Item No.	FIBERGLASS, SINGLE HEADER Item No.	SYNTHETIC, NO HEADER Item No.	SYNTHETIC, SINGLE HEADER Item No.
MERV 9	45 %	12 in	24 in	12 in	2	2JUH2	2GHV1	—	—
		20 in	20 in	12 in	1	2JUH4	2GHV5	2JTY6	—
		20 in	24 in	12 in	1	2JUH6	2GHV9	2JTY8	—
		24 in	24 in	12 in	1	2JUH8	2GHW5	—	—
MERV 11	65 %	12 in	24 in	12 in	2	5W920	2GHP5	2HYX1	4YVA6
		20 in	20 in	12 in	1	2JUD8	2GHP9	2JTX1	4YVA7
		20 in	24 in	12 in	1	2JUF1	2GHR4	2JTX3	4YVA8
		24 in	24 in	6 in	2	—	—	2JUD6	2GHP1
		24 in	24 in	12 in	1	5W919	2GHR8	2HYW9	4YVA9
		24 in	24 in	12 in	1	—	—	5M339	—
MERV 13	85 %	12 in	24 in	12 in	2	5W918	2GHJ9	2HYW8	4YVC1
		20 in	20 in	12 in	1	2JUC5	2GHK4	2JTV7	4YVC2
		20 in	24 in	12 in	1	2JUC7	2GHK8	2JTV9	4YVC3
		24 in	24 in	6 in	2	—	—	2JUC3	—
		24 in	24 in	12 in	1	5W917	2GHL3	2HYW6	4YVC4
MERV 14	95 %	12 in	24 in	6 in	4	—	—	2JTT5	2GHD5
		12 in	24 in	12 in	2	5W916	2GHF3	2HYW5	4YVC5
		20 in	20 in	12 in	1	2JUA2	2GHF7	2JTU4	4YVC6
		20 in	24 in	12 in	1	2JUA4	2GHG2	2JTU6	4YVC7
		24 in	24 in	6 in	2	—	—	2JTZ9	2GHE8
		24 in	24 in	12 in	1	5W915	2GHG6	2HYW7	4YVC8

† Based on ASHRAE Standard 52.2.

5W921

AirHandler® Cartridge Air Filters

- Microfiber media
- Steel frame and 13⁄16" header
- UL Classified

Rigid frame and aluminum dividers help filters hold their shape under difficult operating conditions, such as variable air volume, turbulent airflow, repeated fan shutdown, high temperatures or humidity, or intermittent exposure to water. For use in health care, food processing plants, pharmaceutical manufacturing, computer equipment rooms, and electronic assembly areas.

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Case Qty.	SINGLE HEADER Item No.	DOUBLE HEADER Item No.
MERV 11	65 %	12 in	24 in	12 in	2	5W926	2GGJ3
		20 in	20 in	12 in	1	2GGF2	2GGJ7
		20 in	24 in	12 in	1	2GGE6	2GGH8
		24 in	24 in	12 in	1	5W925	2GGH4
MERV 13	85 %	12 in	24 in	12 in	2	5W924	2GGT5
		20 in	20 in	12 in	1	2GGN4	2GGU1
		20 in	24 in	12 in	1	2GGL9	2GGT1
		24 in	24 in	12 in	1	5W923	2GGR6
		24 in	24 in	6 in	2	2GGN8	—
MERV 14	95 %	12 in	24 in	12 in	2	5W922	2GGZ8
		12 in	24 in	6 in	2	2GGY1	—
		12 in	24 in	12 in	2	2JWA6	—
		20 in	20 in	12 in	1	2GGW7	2GHA3
		20 in	20 in	6 in	2	2GGY5	—
		20 in	24 in	12 in	1	2GGW3	2GGZ4
		24 in	24 in	12 in	1	5W921	2GGY9
		24 in	24 in	6 in	1	2GGX2	—

† Based on ASHRAE Standard 52.2.

For more information on MERV, see page 3047

Air Handler®

V-Bank Air Filters

4PY71

11Z806

- UL Classified
- Plastic frame
- Operate in 100% relative humidity
- Recommended final resistance: 1.5 WC
- For variable air volume systems
- Fit all commonly used 12"D filter frames and housings; 13/16" header

These filters trap particles with high efficiency and can hold more dust than standard minipleat, cartridge, and rigid cell air filters. The filter installation position, service side, and course of air flow can be in any direction. Filters with 85% Filter Efficiency are used for telecommunication industry ventilation.

2 Vs—Provide efficient filtration, are lightweight and easy to transport.

- Replace pocket and rigid filters
- For normal, hostile, and high humidity environments

3 Vs and 4 Vs, Hospital Grade—Can be used where HEPA filter performance is desired but system limitations do not permit use of high-resistance, low-volume HEPA filters.

- More than 8 times as efficient as a 95% ASHRAE filter

4 Vs, Heavy-Duty Plastic Frame—Additional urethane sealant provides greater strength for high-velocity and high-turbulence applications.

Perf. Rating†	Filter Efficiency	Nom. H	Nom. W	Nom. D	Air Flow @ 300 fpm	WITHOUT GASKET Item No.	WITH GASKET* Item No.
2 Vs, Fiberglass Media							
MERV 11	65 %	12 in	24 in	12 in	600 cfm	**4PY75**	—
		20 in	24 in	12 in	1,000 cfm	**4DKY5**	—
		24 in	24 in	12 in	1,200 cfm	**4PY76**	—
	75 %	12 in	24 in	12 in	600 cfm	—	**33E912**
		20 in	24 in	12 in	1,000 cfm	—	**33E913**
		24 in	24 in	12 in	1,200 cfm	—	**33E914**
MERV 13	85 %	12 in	24 in	12 in	600 cfm	**4PY73**	**33E915**
		20 in	24 in	12 in	1,000 cfm	**4DKY6**	**33E916**
		24 in	24 in	12 in	1,200 cfm	**4PY74**	**33E917**
MERV 14	95 %	12 in	24 in	12 in	600 cfm	**4PY71**	**33E918**
		20 in	24 in	12 in	1,000 cfm	**4DKY4**	**33E919**
		24 in	24 in	12 in	1,200 cfm	**4PY72**	**35Z757**
3 Vs, Fiberglass Media							
MERV 11	75 %	20 in	20 in	12 in	833 cfm	**11Z793**	—
MERV 13	85 %	20 in	20 in	12 in	833 cfm	—	**33E921**
MERV 14	95 %	20 in	20 in	12 in	833 cfm	**11Z798**	**33E925**
MERV 15	98 %	20 in	20 in	12 in	833 cfm	**11Z804**	**33E929**
3 Vs, Fiberglass Media, Hospital Grade							
MERV 16	95 %	20 in	20 in	12 in	833 cfm	**11Z809**	—
		20 in	20 in	12 in	833 cfm	**11Z814**	—
	95% DOP	20 in	20 in	12 in	833 cfm	**33E937**	**33E933**
4 Vs, Active Carbon Media, Heavy-Duty Plastic Frame							
—	—	12 in	24 in	12 in	554 cfm	**2GGY7**	—
		24 in	24 in	12 in	1,138 cfm	**2GGX8**	—
4 Vs, Fiberglass Media							
MERV 11	75 %	12 in	24 in	12 in	600 cfm	**11Z791**	**33E920**
		20 in	24 in	12 in	1,000 cfm	**11Z794**	**33E922**
		24 in	24 in	12 in	1,200 cfm	**11Z795**	—
MERV 13	85 %	24 in	24 in	12 in	1,200 cfm	**53DK14**	**33E923**
MERV 14	95 %	12 in	24 in	12 in	600 cfm	**11Z796**	**33E924**
		16 in	24 in	12 in	—	—	**53DK13**
		20 in	24 in	12 in	1,000 cfm	**11Z799**	**33E926** #
		24 in	24 in	12 in	1,200 cfm	**11Z801**	**33E927**
MERV 15	98 %	12 in	24 in	12 in	600 cfm	**11Z802**	**33E928**
		20 in	24 in	12 in	1,000 cfm	**11Z805**	**33E930**
		24 in	24 in	12 in	1,200 cfm	**11Z806**	**33E931**
4 Vs, Fiberglass Media, Heavy-Duty Plastic Frame							
MERV 14	95 %	24 in	24 in	12 in	1,200 cfm	—	**48FP87** #
4 Vs, Fiberglass Media, Hospital Grade							
MERV 16	95 %	12 in	24 in	12 in	600 cfm	**11Z807**	—
		12 in	24 in	12 in	600 cfm	**11Z812**	—
		20 in	24 in	12 in	1,000 cfm	**11Z810**	—
		20 in	24 in	12 in	1,000 cfm	**11Z815**	—
		24 in	24 in	12 in	1,200 cfm	**11Z811**	—
		24 in	24 in	12 in	1,200 cfm	**11Z816**	—
	95% DOP	12 in	24 in	12 in	600 cfm	—	**33E932**
		12 in	24 in	12 in	600 cfm	—	**33E936**
		20 in	24 in	12 in	1,000 cfm	—	**33E934**
		20 in	24 in	12 in	1,000 cfm	—	**33E938**
		24 in	24 in	12 in	1,200 cfm	—	**33E935**
		24 in	24 in	12 in	1,200 cfm	—	**33E939**
4 Vs, Synthetic Media							
MERV 11	75 %	12 in	24 in	12 in	600 cfm	**2GHL6**	**33E940**
		20 in	24 in	12 in	1,000 cfm	**2GHN1**	**33E941**
		24 in	24 in	12 in	1,200 cfm	**2GHN5**	**33E942**
MERV 13	85 %	12 in	24 in	12 in	600 cfm	**2GHN9**	**33E943**
		20 in	24 in	12 in	1,000 cfm	**2GHP4**	**33E944**
		24 in	24 in	12 in	1,200 cfm	**2GHP8**	**33E945**
MERV 15	98 %	12 in	24 in	12 in	600 cfm	**2GHL2**	**33E946**
		20 in	24 in	12 in	1,000 cfm	**2GHK7**	**33E947**
		24 in	24 in	12 in	1,200 cfm	**2GHK3**	**33E948**

** Downstream face gasket location. # Upstream and downstream gasket location.*
† Based on ASHRAE Standard 52.2-2015.

Air Handler®

Odor Removal Box Air Filters

19RR55

- ASTM compliant

Have a rigid frame and contain active carbon charcoal that absorbs unpleasant odors and other gaseous contaminants in the air stream to improve indoor air quality.

Rigid Cell—Can withstand fluctuations in airflow, making these filters ideal for variable-volume HVAC systems. These vapor phase adsorber filters remove molecular contaminants such as hydrocarbons, formaldehyde, ammonia, acid gases, VOCs (volatile organic compounds, such as paint and cleaning chemical fumes), and ozone from the air stream at low concentration levels. Used to improve indoor air quality in commercial or industrial applications such as museums, archive storage facilities, and semiconductor fabrication facilities.

- Metal frame
- Carbon concentration: 46 g/sq.ft.

2GGV7

V-Bank, 4 Vs—These active carbon charcoal adsorber filters are installed in HVAC systems to remove gaseous contaminants such as sulfur oxide, nitrous oxide, ammonia, amines, diesel fumes, aldehydes, acid gases, VOCs (volatile organic compounds, such as paint and cleaning chemical fumes), and animal odors from the air stream. Used to improve indoor air quality in airports, blueprint facilities, food processing plants, loading docks, museums, office buildings, and research facilities.

- Plastic frame
- Carbon concentration: 0.49 g/mL

Nom. H	Nom. W	Nom. D	Air Filter Header Type	WITHOUT GASKET Item No.
Rigid Cell				
12"	24"	12"	No Header	**19RR56**
12"	24"	12"	Single Header	**19RR58**
24"	24"	12"	No Header	**19RR55**
24"	24"	12"	Single Header	**19RR57**
V-Bank, 4 Vs				
12"	24"	12"	Single Header	**2GGY3**
12"	24"	12"	Single Header	**2GGY7**
24"	24"	12"	Single Header	**2GGV7**
24"	24"	12"	Single Header	**2GGX8**
24"	24"	12"	Single Header	**2GHA9**

Air Handler®

V-Bank Air Filter Gloves

2JTL5

- MERV 2, UL Classified
- 100% polyester media
- Recommended final resistance: 1.5" WC
- Double-stitched corners
- Priced each; shipped in case qty., sold individually in-store only

These filter gloves are a bag-like layer of filter material that slips onto the back of a compatible V-bank filter. Depending on how the filter is mounted, the V-bank glove can serve as a pre-filter or as a final filter.

Filter Efficiency	Nom. H	Nom. W	Nom. D	Media Area	Case Qty.	Item No.
25 %	24 in	24 in	12 in	16 sq ft	6	**2JTL5**

Air Handler®

Air Filter Gasketing

Chemical-resistant gasketing with adhesive backing creates a compression seal between the filter media and the housing or frame it sits in. This helps prevent dirty air from escaping through the space between the filter media and the frame or housing. Gasketing is commonly used with box air filters.

Actual Width	Actual Thickness	Overall Length	Gasket Color	Item No.
13/16 in	⅛ in	75 ft	Black	**6C523**
13/16 in	¼ in	50 ft	Black	**6C524**

High Efficiency Particulate Air (HEPA) Filters

HEPA air filters are installed in HVAC systems to remove the maximum amount of contaminants from the air stream for applications that require very clean air. This maximizes indoor air quality and keeps the contaminants from building up in the equipment and damaging it. They provide more effective filtration than other styles of air filters and have a box construction. Commonly used in areas that require very high levels of contamination control, such as clean rooms, hospitals, pharmaceutical facilities, data centers, laboratories, and food processing plants.

Air Handler®

HEPA Air Filters

- Microglass media
- UL Classified

Dispersed Oil Particulates (DOP) HEPA-Grade, 95.00% Efficient—Capture airborne contaminants more efficiently than standard non-HEPA air filters but are less efficient than other types of HEPA air filters. Urethane sealant provides a positive seal on all four sides of the metal frame to help eliminate potential air leaks. Filters are suitable for applications where HEPA-filtered air is not required. Using the DOP test method, these filters are rated as removing particles as small as 0.30 microns with 95% efficiency.
- Hospital grade

Standard HEPA—Remove between 99.97% and 99.99% of particles as small as 0.30 microns from the air stream. Urethane sealant provides a positive seal on all four sides of the metal frame to help eliminate potential air leaks. Filters are commonly used in hospitals, operating rooms, patient isolation rooms, pharmaceutical processing facilities, and similar locations that must meet strict air cleanliness standards. The air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Hospital grade

HEPA Panel, 99.99% Efficient—For use in pressurized open plenum T-Bar grid systems to remove 99.99% of particles as small as 0.30 microns from the air stream. They are commonly used in pharmaceutical processing facilities, patient isolation rooms, operating rooms, hospitals, and other similar locations that must meet strict air cleanliness standards. Air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Low-pressure drop

HEPA Ducted Terminal Modules, 99.99% Efficient—Designed for use in ducted supply HVAC installations with T-bar grid ceilings and remove a minimum of 99.99% of particles as small as 0.30 microns from the air stream. They are commonly used in hospitals, operating rooms, patient isolation rooms, surgery recovery rooms, biomedical facilities, pharmaceutical processing plants, laboratories, and other locations that must meet strict air cleanliness standards. Air filters are manufactured, tested, certified, and labeled in accordance with current HEPA filter standards.
- Low-pressure drop

6B614

2EJY3

Actual H	Actual W	Actual D	Air Flow @ 300 fpm	Frame or Header Material	Gasket Location	Max. Temp.	Item No.
DOP HEPA-Grade, 95 % Efficiency							
11 ⅜ in	23 ⅜ in	11 ½ in	554 cfm	Galvanized Steel	Downstream Face	200°F	**6B623**
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200°F	**6B622**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200°F	**6B621**
23 ⅜ in	23 ⅜ in	11 ½ in	1,138 cfm	Galvanized Steel	Downstream Face	200°F	**6B620**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200°F	**6B619**
Standard HEPA, 99.97 % Efficiency							
8 in	8 in	5 ⅞ in	133 cfm	Galvanized Steel	Downstream Face	200°F	**33E972**
11 ⅜ in	23 ⅜ in	11 ½ in	554 cfm	Galvanized Steel	Downstream Face	200°F	**6B618**
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	None	200°F	**6B617**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	None	200°F	**6B616**
23 ⅜ in	23 ⅜ in	11 ½ in	1,138 cfm	Galvanized Steel	Downstream Face	200°F	**6B615**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200°F	**6B614**
High Capacity							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200°F	**2GJC6**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200°F	**2GHT1**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200°F	**2GHR3**
Standard HEPA, 99.99 % Efficiency							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200°F	**2DXN6**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200°F	**2DXP1**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200°F	**2DXN8**
High Capacity							
12 in	12 in	11 ½ in	300 cfm	Galvanized Steel	Downstream Face	200°F	**2GHU3**
12 in	24 in	11 ½ in	600 cfm	Galvanized Steel	Downstream Face	200°F	**2GHU7**
24 in	24 in	11 ½ in	1,200 cfm	Galvanized Steel	Downstream Face	200°F	**2GHR6**
HEPA Panel, 99.99 % Efficiency							
12 in	12 in	2 ⅞ in	300 cfm	Aluminum	Downstream Face	200°F	**19RR59**
23 ½ in	47 ½ in	2 ½ in	2,325 cfm	Aluminum	Downstream Face	140°F	**2EJY3**
24 in	12 in	2 ⅞ in	600 cfm	Aluminum	Downstream Face	200°F	**19RR60**
24 in	24 in	2 ⅞ in	1,200 cfm	Aluminum	Downstream Face	200°F	**19RR61**
24 in	48 in	2 ⅞ in	2,400 cfm	Aluminum	Downstream Face	200°F	**19RR62**
24 in	12 in	4 ⅞ in	600 cfm	Aluminum	Downstream Face	200°F	**19RR63**
24 in	24 in	4 ⅞ in	1,200 cfm	Aluminum	Downstream Face	200°F	**19RR64**
24 in	48 in	4 ⅞ in	2,400 cfm	Aluminum	Downstream Face	200°F	**19RR65**
HEPA Ducted Terminal Modules, 99.99 % Efficiency							
23 ⅝ in	23 ⅝ in	6 ¾ in	1,163 cfm	Aluminum	Upstream Face	140°F	**19RR66**
23 ⅝ in	47 ⅝ in	6 ¾ in	2,344 cfm	Aluminum	Upstream Face	140°F	**2EJY1**

54FE71

Air Handler®

HEPA Air Filter Change-Out Bags

- UL Classified

Fit around used HEPA and ULPA filters to prevent captured contaminants from escaping while the filters are being stored for disposal. These bags have access holes that can be used to position the bag over the filter and have seals that prevent dust and contaminants captured in the spent filter from escaping. Bags are commonly used to contain spent filters in hospitals, patient isolation rooms, and laboratories.

Actual H	Actual W	Actual D	Material	Item No.
70 in	⅛ in	70 in	Plastic	**54FE71**
84 in	⅛ in	84 in	Plastic	**54FE73**
90 in	⅛ in	90 in	Plastic	**54FE72**

Air Handler®

HEPA Air Filter Holding Frames

Hold compatible HEPA filters securely in place in an HVAC system and allow the filters to seal with the mounting surface to help prevent dirty air from bypassing the filter. Holding frames and compatible HEPA filters remove the maximum amount of contaminants from the air stream for applications that require very clean air.

Holding Frames—For OEM or field assembly of built-up HEPA/ULPA filter banks.

Surelock B HEPA Housings—All-welded, side-access housings can accept most gasket-seal HEPA filters. For use in ducts on the downstream side of the air handling unit.

20HN74

20HN76

Description	Nom. H	Nom. W	Nom. D	Frame or Header Material	Item No.
Holding Frame	25 in	25 in	8 in	Galvanized Steel	**20HN74**
Surelock B HEPA Housing	28 in	26 in	27 in	Galvanized Steel	**20HN76**

Air Handler®

Air Filter Rolls

2W186

- UL Classified

General use air filter roll media can be cut to size. Most commonly used as pre-filters to extend the life of more expensive final filters.

Polyester, Blue/White—For use where fiberglass filters are not acceptable or fiber break-off is a concern.

Polyester, Orange/White—Alternative for MERV 8 pleated filters and have a nonmigrating, heavy, dry tackifier on the downstream (orange) side.

Fiberglass, Blue/White—Bulk rolls replace hammock-type filters in furnaces and air conditioners. Progressively denser scrim-backed media (air entry to air exit).

Hog Hair, Blue—Replace odd-size furnace filters. Stiff media fibers for rigidity and durability, and self-supporting with no frame required.

Foam, Black—Can replace disposable filters as a prefilter for higher-efficiency electronic or media cartridge filters. Wash or vacuum to clean.

Perf. Rating	Nom. W	Nom. L	Actual Thickness	Surface Tackifier	Item No.
Polyester, Blue/White					
MERV 7	12 in	135 ft	½ in	No	**2GGC3**
	16 in	135 ft	½ in	No	**4WZ60**
	20 in	135 ft	½ in	No	**4WZ61**
	24 in	135 ft	½ in	No	**4WZ62**
	25 in	135 ft	½ in	No	**4WZ63**
	30 in	135 ft	½ in	No	**4WZ64**
	36 in	135 ft	½ in	No	**4WZ65**
	40 in	135 ft	½ in	No	**2GGC7**
	48 in	135 ft	½ in	No	**4WZ66**
	60 in	135 ft	½ in	No	**2GGD6**
	12 in	90 ft	¾ in	No	**2GGF8**
	16 in	90 ft	¾ in	No	**4WZ67**
	20 in	90 ft	¾ in	No	**4WZ68**
	24 in	90 ft	¾ in	No	**4WZ69**
	25 in	90 ft	¾ in	No	**4WZ70**
	30 in	90 ft	¾ in	No	**4WZ71**
	36 in	90 ft	¾ in	No	**4WZ72**
	40 in	90 ft	¾ in	No	**2GGG3**
	48 in	90 ft	¾ in	No	**4WZ73**
	50 in	90 ft	¾ in	No	**2GGG7**
	72 in	90 ft	¾ in	No	**2GGH6**
	84 in	90 ft	¾ in	No	**2GGJ2**
MERV 8	16 in	45 ft	1 ½ in	No	**6B776**
	20 in	45 ft	1 ½ in	No	**5C442**
	24 in	45 ft	1 ½ in	No	**6B772**
	25 in	45 ft	1 ½ in	No	**5C443**
	30 in	45 ft	1 ½ in	No	**6B768**
	36 in	45 ft	1 ½ in	No	**6B765**
	48 in	45 ft	1 ½ in	No	**6B762**
	60 in	45 ft	1 ½ in	No	**2GGN3**
Polyester, Orange/White					
MERV 8	16 in	90 ft	¾ in	Yes	**2JRU8**
	20 in	90 ft	¾ in	Yes	**2JRV3**
	25 in	90 ft	¾ in	Yes	**2JRW2**
	30 in	90 ft	¾ in	Yes	**2JRW6**
	36 in	90 ft	¾ in	Yes	**2JRX1**
	48 in	90 ft	¾ in	Yes	**2JRX7**
	60 in	90 ft	¾ in	Yes	**2JRY4**
	48 in	90 ft	1 ½ in	Yes	**2JTD3**
Fiberglass, Blue/White					
MERV 5	7 in	85 ft	¾ in	No	**6U602**
	8 in	85 ft	¾ in	No	**6U601**
	12 in	85 ft	¾ in	No	**6U598**
	16 in	85 ft	¾ in	No	**6U596**
	24 in	20 ft	¾ in	No	**5W498**
	24 in	85 ft	¾ in	No	**6U594**
	24 in	85 ft	1 ½ in	No	**6U593**
MERV 7	10 in	85 ft	¾ in	No	**5C426**
	20 in	85 ft	¾ in	No	**5C427**
	25 in	85 ft	¾ in	No	**5C428**
	30 in	20 ft	¾ in	No	**2W185**
	36 in	20 ft	¾ in	No	**2W186**
MERV 8	25 in	85 ft	1 ½ in	No	**5C430**
Hog Hair, Black					
MERV 7	20 in	30 ft	¾ in	No	**5C431**
Hog Hair, Blue					
MERV 6	20 in	15 ft	1 ½ in	No	**5C433**
	25 in	15 ft	1 ½ in	No	**5C434**
	48 in	15 ft	1 ½ in	No	**6U586**
MERV 7	25 in	30 ft	¾ in	No	**5C432**
	48 in	30 ft	¾ in	No	**6U585**
Foam, Black					
Less Than 5 MERV	24 in	25 ft	¼ in	No	**5W913**
	30 in	25 ft	¼ in	No	**6U592**
	48 in	25 ft	¼ in	No	**2EJZ3**
	24 in	25 ft	½ in	No	**5W914**
	36 in	25 ft	½ in	No	**6U589**
	24 in	10 ft	¾ in	No	**5C444**
	48 in	25 ft	¾ in	No	**2EJZ5**
MERV 7	36 in	10 ft	¾ in	No	**6U591**

6B685

Air Handler®

Air Filter Rolls for Automatic Roll Machines

- UL Classified
- Cores are not interchangeable
- Type AE: American Air Filter units
- Type AE/CB: American Air Filter and Cambridge units
- Type C: Continental Air Filter units

These ready-to-install air filter rolls consist of a long length of filter media on a solid core that can be installed on automatic filter roll machines. When a filter change is needed, the machine automatically advances the correct amount of filter media to replace the existing media. These rolls are most commonly used as pre-filters to extend the life of more expensive final filters.

Perf. Rating	Nom. W	Nom. L	Nom. Thickness	Media Material	Surface Tackifier	Media Color	Item No.
Type AE							
MERV 5	33"	65 ft	1 in	Polyester	No	White	**30PT34**
	45"	65 ft	1 in	Polyester	No	White	**30PT35**
	57"	65 ft	1 in	Polyester	No	White	**30PT36**
	69"	65 ft	1 in	Polyester	No	White	**30PT37**
MERV 6	25"	30 ft	1 in	Hog Hair	No	Blue	**54FF12**
Type AE, Type CB							
MERV 6	33"	65 ft	1 in	Polyester	No	White	**6B689**
	45"	65 ft	1 in	Polyester	No	White	**6B687**
	57"	65 ft	1 in	Polyester	No	White	**6B685**
	69"	65 ft	1 in	Polyester	No	White	**6B683**
Type C							
MERV 6	32"	65 ft	1 in	Polyester	No	White	**6B688**
	44"	65 ft	1 in	Polyester	No	White	**6B686**
	56"	65 ft	1 in	Polyester	No	White	**6B684**
	68"	65 ft	1 in	Polyester	No	Green	**6B682**

Pad Holding Frame

Holding Clip

Air Handler®

Air Filter Pad Holding Frames and Clips

Air filter pad holding frames provide support for air filter pads and allow you to just change the filter media in the air filter frame instead of throwing away the entire air filter. Permanent, reusable frames are constructed around a 24-ga. galvanized steel frame. The downstream side is 1" x 1", 16-ga. galvanized welded wire.

Nom. H	Nom. W	Nom. D	Case Qty.	Item No.
Frames				
10"	10"	1"	4	**6B730**
12"	12"		4	**5W082**
12"	24"		4	**5W081**
14"	25"		4	**6B723**
16"	16"		4	**6B719**
16"	20"		4	**5W080**
16"	25"		4	**5W079**
18"	18"		4	**5W078**
20"	20"		4	**5W076**
20"	24"		4	**6B713**
20"	25"		4	**5W075**
22"	22"		4	**5W074**
24"	24"		4	**5W073**
25"	25"		4	**5W083**
14"	20"	2"	4	**6B724**
16"	20"		4	**5W072**
16"	24"		4	**6B717**
16"	25"		4	**5W071**
18"	24"		4	**6B715**
20"	20"		4	**5W070**
20"	24"		4	**6B712**
20"	25"		4	**5W069**
24"	24"		4	**6B711**
24"	24"	3"	8	**6B731**

Description	Pkg. Qty.	Item No.
Clips, Pigtail		
For 1" Filter with Header, Req. 4 Per Header	12	**5E904**
For 2" Filter, Req. 2 Per Filter	12	**5E905**
For 1" and 2" Filter, Req. 2 Per Filter	12	**5E906**
For 4" Filter, Req. 2 Per Filter	12	**5E907**

Air Handler®

Air Filter Pads

6B735

- UL Classified
- Priced each; shipped in case qty., sold individually in-store only (except where noted)

Pads consist of nonpleated filter media that has been cut to a particular size and can be cut down to a smaller size if needed. Commonly used to replace dirty air conditioner filter pads.

Polyester, Blue/White—Offers higher arrestance and dust-holding than most fiberglass filters; won't shed fibers into the air stream.

Fiberglass, Blue/White—For heavy industrial and oily applications.

Perf. Rating	Nom. W	Nom. L	Nom. Thickness	Surface Tackifier	Case Qty.	Item No.
Polyester, Blue/White						
MERV 7	12"	12"	½"	Yes	24	**5W093**
	12"	24"	½"	Yes	24	**5W092**
	16"	20"	½"	Yes	24	**5W090**
	16"	25"	½"	Yes	24	**5W091**
	18"	18"	½"	Yes	24	**5W089**
	18"	24"	½"	Yes	24	**5W088**
	20"	20"	½"	Yes	24	**5W087**
	20"	25"	½"	Yes	24	**5W086**
	22"	22"	½"	Yes	24	**5W085**
	24"	24"	½"	Yes	24	**5W084**
	25"	25"	½"	Yes	24	**5W094**
	10"	10"	1"	Yes	24	**6B760**
	12"	12"	1"	Yes	24	**6B757**
	12"	20"	1"	Yes	24	**6B756**
	12"	24"	1"	Yes	24	**6B755**
	14"	20"	1"	Yes	24	**6B753**
	14"	25"	1"	Yes	24	**6B751**
	16"	16"	1"	Yes	24	**6B747**
	16"	20"	1"	Yes	24	**5W097**
	16"	24"	1"	Yes	24	**6B746**
	16"	25"	1"	Yes	24	**5W100**
	18"	18"	1"	Yes	24	**6B744**
	18"	24"	1"	Yes	24	**6B742**
	20"	20"	1"	Yes	24	**5W099**
	20"	24"	1"	Yes	24	**6B739**
	20"	25"	1"	Yes	24	**5W098**
	22"	22"	1"	Yes	24	**6B737**
	24"	24"	1"	Yes	24	**6B736**
	25"	25"	1"	Yes	24	**5W096**
	12"	24"	2"	Yes	24	**6B754**
	14"	20"	2"	Yes	24	**6B752**
	16"	20"	2"	Yes	24	**5W101**
	16"	24"	2"	Yes	24	**6B745**
	16"	25"	2"	Yes	24	**5W102**
	18"	24"	2"	Yes	24	**6B741**
	20"	20"	2"	Yes	24	**5W103**
	20"	24"	2"	Yes	24	**6B738**
	20"	25"	2"	Yes	24	**5W104**
	24"	24"	2"	Yes	24	**6B735**
	25"	25"	2"	Yes	24	**6B734**
Fiberglass, Blue/White						
Less Than 5 MERV	15"	24"	⅜"	No	12	**1W633**
	10"	10"	1"	No	50	**6U639** *
	10"	20"	1"	No	50	**6U638**
	12"	12"	1"	No	50	**6U636**
	12"	20"	1"	No	50	**6U635** *
	12"	24"	1"	No	50	**6U634** *
	14"	20"	1"	No	50	**6U632** *
	14"	25"	1"	No	35	**6U630** *
	16"	16"	1"	No	50	**6U626**
	16"	20"	1"	No	24	**6U625**
	16"	24"	1"	No	50	**6U623** *
	16"	25"	1"	No	50	**6U621** *
	18"	18"	1"	No	50	**6U619** *
	18"	20"	1"	No	50	**6U618** *
	18"	24"	1"	No	50	**6U617** *
	18"	25"	1"	No	50	**6U615** *
	20"	20"	1"	No	24	**6U614**
	20"	24"	1"	No	50	**6U612**
	20"	25"	1"	No	24	**6U610**
	22"	22"	1"	No	50	**6U608**
	24"	24"	1"	No	24	**6U607**
	25"	25"	1"	No	50	**6U605**
	10"	20"	2"	No	50	**6U637** *
	12"	24"	2"	No	50	**6U633** *
	14"	20"	2"	No	50	**6U631** *
	15"	20"	2"	No	50	**6U627** *
	16"	20"	2"	No	50	**6U624**
	16"	25"	2"	No	24	**6U620**
	20"	20"	2"	No	24	**6U613**
	20"	24"	2"	No	24	**6U611**
	20"	25"	2"	No	24	**6U609**
	24"	24"	2"	No	24	**6U606**
Carbon, Odor Removal, Black						
MERV 4	25"	25"	¼"	—	12	**5W095**
Foam, Black						
Less Than 5 MERV	15"	24"	¼"	No	12	**1W755**
	15"	24"	¼"	No	12	**5C439**
	48"	72"	½"	No	1	**2EJZ4**
Aluminum, Silver						
Less Than 5 MERV	15"	24"	¼"	No	12	**5C438**

** Sold and shipped in case quantity only.*

6W747

Air Handler® GFS®

Paint Collector Air Filter Pads

- Can be cut to size

Filter media captures dust and particles in the paint booth's air stream and traps paint overspray to keep it from clogging the booth's fans, ducts, and motors or entering the surrounding air. Constructed of a non-pleated filter media that can be cut to fit a compatible air filter frame. Allows users to replace spent filter media without the expense of replacing the whole filter assembly. They are commonly used in the automotive and manufacturing industries.

Nom. H	Nom. W	Performance Rating	Media Material	Surface Tackifier	Brand	Pkg. Qty.	Item No.
1 in Nominal Thickness							
18 in	18 in	MERV 7	Polyester	Yes	Air Handler	1	**6GKN7**
20 in	20 in	Less Than 5 MERV	Paper	No	Air Handler	50	**6W747**
20 in	20 in	Less Than 5 MERV	Paper	No	Air Handler	30	**6W749**
20 in	20 in	Less Than 5 MERV	Paper	No	Air Handler	50	**6W751**
20 in	20 in	MERV 7	Polyester	Yes	Air Handler	1	**2EKK1**
20 in	20 in	MERV 8	Polyester	No	Global Finishing Solutions	24	**4GGX4**
20 in	25 in	Less Than 5 MERV	Paper	No	Air Handler	50	**6W748**
20 in	25 in	Less Than 5 MERV	Paper	No	Air Handler	30	**6W750**
20 in	25 in	MERV 7	Polyester	Yes	Air Handler	1	**2EKK2**
2 in Nominal Thickness							
20 in	20 in	Less Than 5 MERV	Fiberglass	No	Air Handler	50	**2W001**
20 in	20 in	Less Than 5 MERV	Fiberglass	No	Air Handler	1	**2GJD1**
20 in	20 in	MERV 7	Paper	No	Global Finishing Solutions	12	**4GGX6**
20 in	25 in	Less Than 5 MERV	Fiberglass	No	Air Handler	50	**2W002**
20 in	25 in	Less Than 5 MERV	Fiberglass	No	Air Handler	1	**2JRY8**
20 in	25 in	MERV 8	Polyester	No	Global Finishing Solutions	30	**6TWA1**
20 in	48 in	MERV 7	Polyester	Yes	Global Finishing Solutions	8	**6TWA2**

Air Handler®

Paint Collector Pad Holding Frame Modules and Accessories

- Hold up to 2 pads per module

Metal holding frames, grids, and support rods allow proper installation of paint collector pads.

6B840

Description	L	W	D	Case Qty.	Item No.
Filter Holding Frame	20 in	20 in	3 in	8	**6B840**
Filter Holding Frame	20 in	25 in	3 in	8	**6B838**
Snap-In Grid	20 in	20 in	—	16	**6B839**
Snap-In Grid	20 in	25 in	—	16	**6B837**
Single Wire Rod	20 in	—	—	8	**6B842**

6B845

Air Handler®

Paint Collector Air Filter Rolls

Designed to capture dust and particles in the paint booth's air stream and trap paint overspray to keep it from clogging the booth's fans, ducts, and motors or entering the surrounding air. Constructed of non-pleated filter media in long lengths that can be cut to fit a compatible air filter frame. Allows users to replace spent filter media without the expense of replacing the whole filter assembly. They are commonly used in the automotive and manufacturing industries.

Nom. H	Nom. W	Performance Rating	Media Material	Surface Tackifier	Item No.
¾ in Actual Thickness					
21 in	90 ft	MERV 7	Polyester	Yes	**2EKK3**
26 in	90 ft	MERV 7	Polyester	Yes	**2EKK4**
30 in	90 ft	MERV 7	Polyester	Yes	**2EKK5**
36 in	90 ft	MERV 7	Polyester	Yes	**2EKK6**
40 in	20 ft	Less Than 5 MERV	Paper	No	**6B836**
40 in	30 ft	Less Than 5 MERV	Paper	No	**6B835**
40 in	40 ft	Less Than 5 MERV	Paper	No	**6B834**
41 in	90 ft	MERV 7	Polyester	Yes	**2EKK7**
45 in	6 ft	Less Than 5 MERV	Paper	No	**54FF13**
45 in	35 ft	Less Than 5 MERV	Paper	No	**54FF14**
48 in	90 ft	MERV 7	Polyester	Yes	**2EKK8**
60 in	90 ft	MERV 7	Polyester	Yes	**2EKK9**
2 ¾ in Actual Thickness					
21 in	260 ft	MERV 5	Fiberglass	No	**6B845**
26 in	260 ft	MERV 5	Fiberglass	No	**6B844**
30 in	260 ft	MERV 5	Fiberglass	No	**6C525**
36 in	260 ft	MERV 5	Fiberglass	No	**6C526**
41 in	260 ft	MERV 5	Fiberglass	No	**6C527**
48 in	260 ft	MERV 5	Fiberglass	No	**6C528**
60 in	260 ft	MERV 5	Fiberglass	No	**6B843**

Green Masking Paper

- 40-lb. paper weight

Disposable paper helps protect the walls and floors of spray booths and parts of objects being painted from paint overspray. Prevents paint buildup and ensures booths remain clean, free of paint that could be tracked out, and ready for new items to spray.

36WE54

Nom. W	Nom. L	Item No.
7 in	625 ft	**36WE54**
16 in	625 ft	**36WE55**
18 in	625 ft	**36WE56**
24 in	625 ft	**36WE57**
30 in	625 ft	**36WE58**
36 in	625 ft	**36WE59**
48 in	625 ft	**36WE60**
54 in	625 ft	**36WE61**

Air Handler®

Spray Booth Make-Up Air Ring Panel Air Filters

- UL Classified

This 2-ply synthetic media is heat-sealed inside polyester layers, creating a self-gasketing filter with internal metal wire. Unlike standard panel air filters, ring panel air filters don't require clips or latches to seal them in place.

Nom. H	Section W	Nom. Thickness	Case Qty.	Item No.
12 in	24 in	1 in	24	**5W421**
20 in	20 in	1 in	24	**5W422**
20 in	25 in	1 in	24	**5W423**
24 in	24 in	1 in	24	**5W424**
20 in	50 in	1 in	10	**5W425**

5W421

2HPD4

459V90

2HPC3

780TH1

22EW04

784JK7

2HPE1

459W11

61DJ81

2YGA6

61CZ68

451F74

Room Air Cleaners

Feature one or more air-cleaning technologies to reduce or deactivate airborne contaminants and neutralize odors. They have a higher air flow and can clean a larger volume of air per minute than desktop air cleaners, and provide localized air cleaning in classrooms, offices, and other occupied spaces.

Max. Air Flow	CADR Rating (Smoke)	Max. Coverage Area	Max. Noise Level	Filters Included	Control Type	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Air Cleaners											
Particle Removal											
43 cfm	—	322 sq ft	25 dBA	HEPA (Primary), Carbon (Secondary), Sponge (Prefilter)	Keypad	11 ⅞ in	11 ⅞ in	7 ⅛ in	Dayton	2HPD4	**2HPD4**
55 cfm	68	200 sq ft	60 dB	HEPA (Primary), Carbon (Secondary)	Touch Screen	27 ¼ in	7 ¼ in	8 ½ in	Fellowes	9286001	**459V90**
78 cfm	—	430 sq ft	26 dBA	HEPA (Primary), Carbon (Secondary), Sponge (Prefilter)	Keypad; Remote	12 ½ in	17 ¾ in	8 ½ in	Dayton	2HPB8	**2HPB8**
80 cfm	—	538 sq ft	30 dBA		Keypad; Remote	26 ¾ in	10 ¼ in	10 ¼ in	Dayton	2HPC3	**2HPC3**
130 cfm	126	400 sq ft	70 dB	HEPA (Primary), Carbon (Secondary)	Touch Screen	20 ½ in	13 in	7 ⅛ in	Fellowes	9286101	**459V93**
197 cfm	—	861 sq ft	68 dB	HEPA (Primary), Carbon (Secondary), Sponge (Prefilter)	Keypad; Remote	24 ¾ in	9 ½ in	16 ½ in	Dayton	2HPB1	**2HPB1**
197 cfm	191	600 sq ft	70 dB	HEPA (Primary), Carbon (Secondary)	Touch Screen	25 ⅛ in	16 in	8 ⅛ in	Fellowes	9286201	**459V96**
450 cfm	450	750 sq ft	55 dB	Carbon (Secondary), HEPA (Primary), Pleated (Prefilter)	Keypad	36 in	14 in	14 ½ in	Omni Cleanair	OCA500-001	**780TH1**
1,200 cfm	1,200	2,000 sq ft	59 dB		Keypad	49 ½ in	20 in	18 in	Omni Cleanair	OCA1200-001	**780TG9**
Particle Removal and Germicidal Disinfection											
380 cfm	—	1,000 sq ft	24 dB	Activated Carbon Tray (Secondary)	—	32 in	13 ½ in	13 ½ in	E. L. Foust	400SS	**22EW03** *
380 cfm	—	1,000 sq ft	24 dB		—	32 in	13 ½ in	13 ½ in	E. L. Foust	400B	**22EW04**
450 cfm	450	750 sq ft	55 dB	Carbon (Secondary), HEPA (Primary), Pleated (Prefilter)	Keypad	36 in	14 in	14 ½ in	Omni Cleanair	OCA510-001	**780TH2**
647 cfm	518	4,853 sq ft	58 dB	HEPA Filter	Touch Screen; Remote	31 in	18 ⅝ in	15 ¼ in	Field Controls	TRIO-PRO	**784JK7**
1,200 cfm	1,200	2,000 sq ft	59 dB	Carbon (Secondary), HEPA (Primary), Pleated (Prefilter)	Keypad	49 ½ in	20 in	18 in	Omni Cleanair	OCA1210-001	**780TH0**
Particle Removal and VOC/Odor Neutralization											
57 cfm	—	269 sq ft	26 dBA	HEPA (Primary), Carbon (Secondary), Sponge (Prefilter)	Keypad	14 in	6 in	8 ½ in	Dayton	2HPE1	**2HPE1**
78 cfm	—	430 sq ft	26 dBA	Activated Carbon (Secondary), HEPA (Primary), Sponge (Prefilter)	Keypad; Remote	12 ½ in	17 ¾ in	8 ½ in	Dayton	2HPB9	**2HPB9**
160 cfm	—	500 sq ft	18 dBA	Activated Carbon (Secondary)	—	22 in	10 ¼ in	10 in	E. L. Foust	160R2	**11W126**
197 cfm	—	861 sq ft	68 dB	HEPA (Primary), Carbon (Secondary), Sponge (Prefilter)	Keypad; Remote	25 in	16 ½ in	9 ½ in	Dayton	2HPB2	**2HPB2**
220 cfm	211	700 sq ft	67 dB	Activated Carbon (Secondary), HEPA (Primary)	Touch Screen	22 ¾ in	21 in	10 ⅝ in	Fellowes	9450001	**459W11**
220 cfm	211	700 sq ft	67 dB		Touch Screen with IAQ Display	22 ¾ in	21 in	10 ⅝ in	Fellowes	9573201	**459W08**
250 cfm	—	—	59 dBA	HEPA (Primary), Chemisorbent Media (Secondary), Antimicrobial Pleated (Secondary)	—	23 in	14 ½ in	14 ½ in	Purashield	CPUM-500-4	**61DJ81**
286 cfm	154	2,000 sq ft	58 dB	Activated Carbon (Secondary), HEPA (Primary)	Keypad	18 in	22 in	8 in	Sun-Pure Ultra-Sun	SP-20C	**2YGA6**
400 cfm	347	—	56 dBA	HEPA (Primary), Chemisorbent Media (Secondary), Antimicrobial Pleated (Secondary)	Touch Screen	44 in	26 ⅜ in	26 ⅜ in	Purashield	SMART-500-1v	**61DJ82**
440 cfm	450	1,400 sq ft	68 dB	Activated Carbon (Secondary), HEPA (Primary)	Touch Screen	22 ¾ in	34 ⅞ in	10 ¾ in	Fellowes	9451201	**459W13**
440 cfm	450	1,100 sq ft	68 dB		Touch Screen with IAQ Display	22 ⅝ in	10 ⅝ in	10 ⅝ in	Fellowes	9573301	**61CZ68**
440 cfm	305	1,000 sq ft	55 dB		Keypad	28 in	17 ½ in	9 in	Field Controls	Trio-Plus	**60RP69**
600 cfm	—	—	64 dBA		Remote	41 ½ in	8 ¾ in	4 ⅝ in	Dyson	TP04	**60CY17**
845 cfm	168	—	63 dBA		Remote	40 in	7 ½ in	4 ⅜ in	Dyson	TP02	**451F74**
1,100 cfm	815	—	60 dBA	HEPA (Primary), Chemisorbent Media (Secondary), Antimicrobial Pleated (Secondary)	Touch Screen	70 in	26 ⅜ in	26 ⅜ in	Purashield	SMART-1000-1v	**61DJ83**

Brand	Filter Type	Perf. Rating	Compatible Grainger Part No.	Mfr. Model	Item No.
Replacement Filters					
Dayton	HEPA	MERV 17	2HPB1	2HPB5	**2HPB5**
		MERV 17	2HPB2	2HPB4	**2HPB4**
		MERV 17	2HPB8, 2HPB9	2HPC2	**2HPC2**
		MERV 17	2HPC3	2HPD3	**2HPD3**
		MERV 17	2HPC3	2HPD2	**2HPD2**
		MERV 17	2HPD4	2HPD7	**2HPD7**
		MERV 17	2HPE1	2KXN8	**2KXN8**
	Photocatalyst	Unrated	2HPB2	2HPB6	**2HPB6**
		Unrated	2HPE1	2HPE3	**2HPE3**
	Prefilter	Unrated	2HPB1, 2HPB2	2HPB3	**2HPB3**
		Unrated	2HPB8, 2HPB9	2HPC1	**2HPC1**
		Unrated	2HPD4, 2HPD5	2HPD6	**2HPD6**
		Unrated	2HPE1	2HPE2	**2HPE2**
Dyson	HEPA	—	60CY17	969048-05	**61TM06**
		—	451F74	970342-01	**61TM07**
E. L. Foust	Blanket	MERV 10	11W126	E-1526B	**11W128**
	Cartridge	MERV 14	22EW03, 22EW04	400-2270	**22EW10**
	HEPA; Blanket; Vapor Carbon Media Tray	MERV 12	11W126	R2100STDTPF	**11W127**
	Prefilter	MERV 8	22EW03, 22EW04	400-2255	**22EW07**
	Vapor Carbon Media Tray	—	22EW03, 22EW04	400-2260	**22EW08**
Fellowes	Carbon	—	459V90	9324001	**459V92**
		—	459V93	9324101	**459V95**
		—	459V96	9324201	**459V98**
	HEPA	—	459V90	9287001	**459V91**
		—	459V93	9287101	**459V94**
		—	459V96	9287201	**459V97**
Field Controls	HEPA; Vapor Carbon Media Tray	MERV 17	60RP69	TPLUS-H13	**60RP70**
Omni Cleanair	HEPA	—	780TG9, 780TH0	HEPA-1200H	**780TG6**
		—	780TH1, 780TH2	HEPA-500H	**780TG5**
	Prefilter	MERV 11	780TG9, 780TH0	M11PF-1200-4Pk	**780TG7**
		MERV 11	780TH1, 780TH2	M11PF-500-4Pk	**780TG8**
Purashield	HEPA; PuraWard Filter; Molecular Filtration; Pre-filter	MERV 17	61DJ81	CPUM-500-CART	**61DJ79**
		MERV 17	61DJ82	SMART-500-KIT-VIRUS	**61DJ84**
		MERV 17	61DJ82	SMART-500-KIT-SPHXODOR	**61DJ86**
		MERV 17	61DJ83	SMART-1000-KIT-VIRUS	**61DJ85**
		MERV 17	61DJ83	SMART-1000-KIT-SPHXODOR	**61DJ87**
Sun-Pure Ultra-Sun	Prefilter	MERV 16	2YGA6	1RK001	**2YGC4**

Brand	Bulb Length	Compatible Grainger Part No.	Mfr. Model	Item No.
Replacement UV Bulbs				
Dayton	8 ⅜ in	2HPE1	2KXN7	**2KXN7**
	11 ⅜ in	2HPB1, 2HPB2	2HPB7	**2HPB7**
E. L. Foust	9 in	22EW03, 22EW04	400-UVLM	**22EW09**
Field Controls	13 in	60RP69	TP-LAMP	**60RP71**
Omni Cleanair	—	780TH0	SureUVC-4Pk	**780TG4**
Sun-Pure Ultra-Sun	12 in	2YGA6	1RK003	**2YGC5**

** Stainless steel.*

Wall-Mount Air Cleaners

Fellowes

Free up floorspace and improve air quality by filtering out dust, lint, smoke, and other contaminants. Have 5 speeds and self-regulating sensors that continuously monitor air quality, room occupancy, and noise levels to provide maximum protection, on demand.

459V99

459W09

Max. Air Flow	CADR Rating (Smoke)	Max. Coverage Area	Max. Noise Level	Filter Efficiency @ Micron Size	Filters Included	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Air Cleaners (Ionization & Filtration)										
Touch Screen										
100 cfm	82	300 sq ft	64 dB	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary)	22 ½ in	14 in	4 ⅛ in	9416101	**459V99**
220 cfm	221	700 sq ft	67 dB	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary)	19 ½ in	21 in	9 ½ in	9416201	**459W10**
440 cfm	450	1,400 sq ft	68 dB	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary)	19 ½ in	37 in	9 ½ in	9416301	**459W12**
Touch Screen with IAQ Display										
220 cfm	221	700 sq ft	67 dB	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary)	19 ½ in	21 in	9 ½ in	9573001	**459W07**
440 cfm	450	1,400 sq ft	68 dB	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary)	19 ½ in	37 in	9 ½ in	9573101	**459W09**

Filter Type	Compatible Grainger Part No.	Actual Filter Size	Mfr. Model	Item No.
Replacement Filters				
Carbon	459V99	12 ⅞ in x 7 ⅜ in x 1 ⅞ in	9544601	**459W06**
Carbon	459W10, 459W11, 459W12, 459W13	14 ⅜ in x 13 ¾ in x 2 ¼ in	9416502	**459W14**
Carbon	459W10, 459W11, 459W12, 459W13	14 ⅜ in x 13 ¾ in x 2 ¼ in	9436802	**459W16**
HEPA	459V99	12 ⅞ in x 7 ⅜ in x 1 ⅞ in	9544301	**459W04**
HEPA	459V99	12 ⅞ in x 7 ⅜ in x 1 ⅞ in	9544501	**459W05**
HEPA	459W10, 459W11, 459W12, 459W13	14 ⅜ in x 13 ¾ in x 2 ¼ in	9416602	**459W15**
HEPA	459W10, 459W11, 459W12, 459W13	14 ⅜ in x 14 in x 2 ¼ in	9436902	**459W17**

Description	Compatible Grainger Part No.	Includes	Mfr. Model	Item No.
Accessories				
ADA-Compliant Recess Kit	459V99	Mounting Template, Recess Pan, Screws	9540801	**459W02**
Floor Stand	459V99	Stand, (2) Push Screws	9540901	**459W01**

2KXN9

Desktop Air Cleaners

Dayton · E.L. Foust Co. PURIFYING YOUR WORLD

Keep indoor air clean and free from odors, dust, and airborne contaminants wherever needed.
22EW05 includes an activated carbon filter to control chemicals, fumes, gases, and odors.

Max. Air Flow	Max. Coverage Area	Max. Noise Level	Filters Included	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Air Cleaners (Particle Removal and VOC/Odor Neutralization)									
1 cfm	86 sq ft	35 dB	—	9 ½ in	3 ½ in	4 in	Dayton	2KXN9	**2KXN9**
60 cfm	180 sq ft	16 dBA	Activated Carbon (Secondary)	17 in	7 in	7 in	E. L. Foust Co.	160DT	**22EW05**

Description	Performance Rating	Compatible Grainger Part No.	Actual Filter Size	Brand	Mfr. Model	Item No.
Replacement Filters						
Blanket	MERV 12	22EW05, 22EW06	9 ⅞ in x 8 ¼ in x 1⁄16 in	E. L. Foust Co	E1526B	**22EW12**
HEPA; Blanket; Vapor Carbon Media Tray	MERV 12	22EW05, 22EW06	10 1⁄16 in x 5 7⁄16 in x 5 7⁄16 in	E. L. Foust Co	REPCARTANDTGALVSTDTECHNOPF	**22EW11**
Photocatalyst	Unrated	2KXN9	4 5⁄16 in x 2 ¾ in x ½ in	Dayton	2KXP2	**2KXP2**
Replacement Bulb						
UV Bulb, 3 ½ in	—	2KXN9	—	Dayton	2KXP1	**2KXP1**

56MW28

Source-Capture Air Cleaners

EXTRACT-ALL

Remove aerosols, droplets, and other airborne contaminants in labs, dentist's offices, and similar locations.
Adjustable extractor arm can be positioned close to the source of contaminated air.

Max. Air Flow	Max. Noise Level	Filters Included	Cabinet Depth	Cabinet Height	Cabinet Width	Mfr. Model	Item No.
Air Cleaners							
Particle Removal							
230 cfm	65 dBA	HEPA (Primary), Pleated (Prefilter), Panel (Prefilter)	12 ½ in	19 ½ in	12 ½ in	987-DCA1	**56MW28**
380 cfm	65 dBA	Pleated (Prefilter), Panel (Prefilter), ULPA (Primary)	12 ½ in	19 ½ in	12 ½ in	987-DCA2	**56MW29**

Description	Performance Rating	Compatible Grainger Part No.	Actual Filter Size	Mfr. Model	Item No.
Replacement Filters					
Carbon	—	56MW28, 56MW29, 56MW32	—	RF-987-RC625	**56MW36**
Panel	MERV 6	2DBV6, 56MW28, 56MW29, 9WKN1	12 in x 12 in x ½ in	RF-987-1	**2DBW5**
Pleated	MERV 10	56HV20, 56HV21, 56MW28, 56MW29, 60JD30, 60JD31	12 in x 12 in x 2 in	RF-987-6	**2DBW8**
Pleated	MERV 10	56HV20, 56HV21, 56MW28, 56MW29, 60JD30, 60JD31	12 in x 12 in x 2 in	RF-987-Pleat4pk	**56MW34**
Grated Inlet Cover					
Converts Air Cleaner to Downdraft	—	56HV20, 56HV21, 56MW28, 56MW29, 60JD30, 60JD31	—	987-DDCWH	**56MW30**

61DJ80

22EW06

Automobile Air Cleaners

PuraShield® Filtration Group · E.L. Foust Co. PURIFYING YOUR WORLD

Reduce or deactivate airborne contaminants and neutralize odors inside cars, RVs, and trucks.
61DJ80 can be mounted on car dashboard, on center console, or behind the headrest.

Max. Air Flow	Max. Coverage Area	Max. Noise Level	Filters Included	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Air Cleaners									
Particle Removal and Germicidal Disinfection									
2.35 cfm	—	50 dBA	HEPA (Primary), Chemisorbent Media (Secondary), UV (Pre-Filter)	2 ⅝ in	5 ⅝ in	5 ⅝ in	Purashield	CPUM-MINI	**61DJ80**
Particle Removal and VOC/Odor Neutralization									
60 cfm	63 sq ft	18 dBA	Activated Carbon (Secondary)	8 ½ in	16 in	6 in	E. L. Foust Co.	160AN	**22EW06**

Description	Performance Rating	Compatible Grainger Part No.	Actual Filter Size	Brand	Mfr. Model	Item No.
Replacement Filters						
Blanket	MERV 12	22EW05, 22EW06	9 ⅞ in x 8 ¼ in x 1⁄16 in	E. L. Foust Co	E1526B	**22EW12**
HEPA	MERV 17	61DJ80	2 ½ in x 6 in x 3 in	Purashield	CPUM-MINI-CART	**783PX4**
HEPA; Blanket; Vapor Carbon Media Tray	MERV 12	22EW05, 22EW06	10 1⁄16 in x 5 7⁄16 in x 5 7⁄16 in	E. L. Foust Co	REPCARTANDTGALVSTDTECHNOPF	**22EW11**

Air Cleaner for Ductless Systems

iWave

Features particle removal and VOC/odor neutralization technology that reduces dust, allergens, and other particles in the air to improve indoor air quality. Does not use filters or bulbs so it requires minimal maintenance.

Maximum Air Flow Capacity	Ion Output	Self-Cleaning	Voltage	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
1600 cfm	32,000,000 ions/cc	No	110 V AC, 240 V AC	1 ¼ in	18 in	1⁄16 in	4900-35	**54XY42**

Industrial-Grade Negative Air Machines

Neutralize odors and remove particles such as dust, lead, mold, and debris from the air in abatement, restoration, construction, and demolition applications. 49K231 and 49K233 add VOC/odor neutralization. For filters and UV bulbs for all air machines, see Grainger.com and search for “negative air machine filters & UV bulbs."

54FH74

56GX66

56HV20

Max. Air Flow	No. of Speeds	Filter Efficiency @ Micron Size	Filters Included	Maximum Noise Level	Audible Visual Alarms	Housing Color	Brand	Mfr. Model	Item No.
Lightweight Aluminum Negative Air Machines									
600 cfm	2	99.99 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	61 to 90 dB	Yes	Orange	Husqvarna	A600	**54FH74**
1,200 cfm	2			>90 dB	Yes	Orange	Husqvarna	A2000	**54FH73**
2,000 cfm	2	99.97 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	—	Silver	Omnitec	OA2200ULBF	**49K233**
2,000 cfm	3		HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	—	Silver/Blue	Omnitec	OA2200UL	**49K232**
600 cfm	Variable			61 to 90 dB	—	Silver	Omnitec	OA600VM	**2NJ19**
900 cfm	Variable			61 to 90 dB	—	Silver	Omnitec	OA1000VM	**2NJ21**
1,600 cfm	Variable			61 to 90 dB	—	Silver	Omnitec	OA2000VM	**2NJ23**
Impact-Resistant Plastic Negative Air Machines									
1,000 cfm	2	99.97 % at 0.3 micron	HEPA (Primary), Polypad (Prefilter)	31 to 60 dB	No	Red	Novatek	F1000	**348KH0**
1,400 cfm	2	85 % at 5 micron	Bag (Primary), Pleated (Prefilter)	31 to 60 dB	Yes	Red	Novatek	G1005	**53XW89**
1,400 cfm	2	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	31 to 60 dB	Yes	Red	Novatek	G1002	**53XW88**
1,400 cfm	2	99.99 % at 0.3 micron		31 to 60 dB	Yes	White	Novatek	G1007B	**53XW90**
2,000 cfm	2	99.97 % at 0.3 micron	HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	No	Red	Novatek	F2100	**348KH1**
2,200 cfm	2	90 % at 1 micron	DUAC Odor (Pre-Filter)	61 to 90 dB	—	White	Airganics	GA2200	**53XX05**
2,700 cfm	2	85 % at 5 micron	Bag (Primary), Pleated (Prefilter)	61 to 90 dB	No	Red	Novatek	G2105	**53XW86**
2,700 cfm	2	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	61 to 90 dB	Yes	Red	Novatek	G2102	**53XW98**
2,700 cfm	2			61 to 90 dB	Yes	Red	Novatek	G2112	**53XX01**
2,700 cfm	2	99.99 % at 0.3 micron		61 to 90 dB	Yes	White	Novatek	G2122	**53XX02**
1,000 cfm	3	95 % at 5 micron	Carbon (Secondary), Polypad (Prefilter), Ring (Secondary)	31 to 60 dB	No	Blue	Mintie	PAB1K-GP3	**30RV34**
1,000 cfm	3	99.97 % at 0.3 micron	Carbon (Secondary), HEPA (Primary), Polypad (Prefilter), Ring (Secondary)	31 to 60 dB	No	Blue	Mintie	PAB1K-973	**30RV35**
1,000 cfm	3	99.99 % at 0.3 micron		31 to 60 dB	No	Blue	Mintie	PAB1K-993	**30RV36**
1,000 cfm	3			31 to 60 dB	Yes	Blue	Mintie	PAB1K-99ALM	**30RV37**
1,200 cfm	3	99.97 % at 0.3 micron		31 to 60 dB	No	Blue	Mintie	PAB2K-973	**30RV50**
1,200 cfm	3	99.99 % at 0.3 micron		31 to 60 dB	No	Blue	Mintie	PAB2K-993	**30RV51**
1,200 cfm	3			31 to 60 dB	Yes	Blue	Mintie	PAB2K-99ALM	**30RV52**
500 cfm	Variable	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	31 to 60 dB	No	Blue	Bluedri	BD-AS-550-BL	**56GX66**
600 cfm	Variable	99.99 % at 0.3 micron	HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	—	Blue	Omnitec	OA600NMHAZ	**49K223**
750 cfm	Variable	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	31 to 60 dB	Yes	Red	Novatek	G0700	**53XW80**
1,400 cfm	Variable			31 to 60 dB	No	Red	Novatek	G1000V	**53XW82**
1,400 cfm	Variable			31 to 60 dB	Yes	Red	Novatek	G1009V	**53XW97**
1,400 cfm	Variable	99.99 % at 0.3 micron		31 to 60 dB	Yes	White	Novatek	G1007BV	**53XW95**
2,200 cfm	Variable	90 % at 1 micron	Carbon (Secondary), Pleated (Prefilter)	31 to 60 dB	—	White	Airganics	GA800	**53XX03**
2,200 cfm	Variable		DUAC Honeycomb (Primary), Tritek (Primary)		—	White	Airganics	GA1200	**53XX04**
Heavy-Duty Steel Negative Air Machines									
350 cfm	1	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	>90 dB	No	White	Extract-All	987-UCA1-WH	**56HV20**
350 cfm	1			>90 dB	No	Black	Extract-All	987-UCA1-BL	**60JD30**
350 cfm	1	99.99 % at 0.1 micron	Pleated (Prefilter), ULPA (Primary)	>90 dB	No	White	Extract-All	987-UCA2-WH	**56HV21**
350 cfm	1			>90 dB	No	Black	Extract-All	987-UCA2-BL	**60JD31**
500 cfm	1	99.97 % at 0.3 micron	HEPA (Primary), Pleated (Prefilter)	>90 dB	No	White	Extract-All	400-UCA1-WH	**56HV22**
500 cfm	1			>90 dB	No	Black	Extract-All	400-UCA1-BL	**60JD32**
900 cfm	1			>90 dB	No	White	Extract-All	800-UCA1-WH	**56HV24**
900 cfm	1			>90 dB	No	Black	Extract-All	800-UCA1-BL	**60JD34**
1,600 cfm	3		HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	—	Silver	Omnitec	OA2000C	**49K228**
2,000 cfm	3	95 % at 0.3 micron	Activated Carbon (Secondary), Polypad (Prefilter)	61 to 90 dB	—	Silver	Omnitec	OA2200CBF	**49K231**
2,000 cfm	3	99.97 % at 0.3 micron	HEPA (Primary), Polypad (Prefilter)	61 to 90 dB	—	Silver	Omnitec	OA2200C	**49K230**

Medical-Grade Negative Air Machines

Remove bacteria, viruses, mold allergens, dust, and other small particles from the air in settings such as cleanrooms, medical clinics, and hospitals. They are often used for virus-containment and patient-isolation applications.

49K225

Air Flow	No. of Speeds	Filter Efficiency @ Micron Size	Filters Included	Noise Level	Housing Color	Brand	Mfr. Model	Item No.
Lightweight Aluminum Negative Air Machines								
Particle Removal								
1,000 cfm	Variable	99.99 % at 0.3 micron	HEPA (Primary)	72 dB	Silver	Hepacart	HFAIR1100	**60HT60**
1,800 cfm	Variable	99.99 % at 0.3 micron	HEPA (Primary)	78 dB	Silver	Hepacart	HFAIR2100	**60HT61**
Particle Removal and Germicidal Disinfection								
1100 cfm	Variable	99.99 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary), Pleated (Prefilter)	67 dB	White	Omnitec Design Inc.	OA1200PACM	**49K225**
1100 cfm	Variable	99.99 % at 0.3 micron	Activated Carbon (Secondary), HEPA (Primary), Pleated (Prefilter)	69 dB	White	Omnitec Design Inc.	OA1600PAC	**49K227**
Heavy-Duty Steel Negative Air Machines								
Particle Removal								
500 cfm	1	99.99 % at 0.1 micron	Pleated (Prefilter)	91 dB	White	Extract-All	400-UCA2-WH	**56HV23**
500 cfm	1	99.99 % at 0.1 micron	Pleated (Prefilter)	91 dB	Black	Extract-All	400-UCA2-BL	**60JD33**
900 cfm	1	99.99 % at 0.1 micron	Pleated (Prefilter)	102 dB	White	Extract-All	800-UCA2-WH	**56HV25**
900 cfm	1	99.99 % at 0.1 micron	Pleated (Prefilter)	102 dB	Black	Extract-All	800-UCA2-BL	**60JD35**

Filter Type	Performance Rating	Filter Efficiency	Compatible Grainger Part No.	Brand	Mfr. Model	Item No.
Replacement Filters						
Pleated	MERV 11	—	49K225	Omnitec Design Inc.	OPF1616	**40ZL79**
Pleated	MERV 11	—	49K227	Omnitec Design Inc.	OPF2416	**49K252**
ULPA	MERV 19	99.99%	56HV23, 60JD33	Extract-All	RF-400-ULPA	**56HV32**
ULPA	MERV 19	99.99%	56HV25, 60JD35	Extract-All	RF-800-ULPA	**56HV36**

Portable Humidifiers

Add moisture to air in a single room to make the space feel warmer, minimize static shocks, and help prevent wood surfaces from drying out. Suitable for use in offices, homes, and other indoor spaces.

Evaporative Humidifiers—Have an internal fan that draws in air and passes it through a moist wick to increase humidity.

Steam Humidifiers—Use electrodes to create steam and use less water than evaporative humidifiers and bypass humidifiers.

Ultrasonic Humidifiers—Vaporize water and release the vapor into the surrounding air. Create less noise than evaporative humidifiers.

Housing Style	Daily Humidification Output	Reservoir Cap.	Reservoir Type	Coverage Area	Housing Color	No. of Speeds	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Evaporative Humidifiers												
Console	3 gal	3 gal	Pour-In	1,250 sq ft	White	4	14"	19"	11"	AIRCARE	5D6 700	**4NHG1**
Console	5.4 gal	5.4 gal	Bottle	3,700 sq ft	Black, Brown	4	23½"	21¹³⁄₁₆"	13¹³⁄₁₆"	AIRCARE	H12 300HB	**44R223**
Console	5.4 gal	5.4 gal	Bottle	3,700 sq ft	Brown	4	23½"	21¹³⁄₁₆"	13¹³⁄₁₆"	AIRCARE	H12 400HB	**44R219**
Console	8 gal	2.5 gal	Bottle	2,600 sq ft	White	3	16½"	18"	12"	AIRCARE	MA0800	**5KEF3**
Console	13 gal	5.7 gal	Bottle	3,600 sq ft	Black, Silver	9	21½"	27"	13⁵⁄₁₆"	AIRCARE	4DTS 900	**33TN59**
Console	14 gal	5 gal	Bottle	4,000 sq ft	Silver	3	22¹³⁄₁₆"	24⁵⁄₁₆"	15"	AIRCARE	HD1409	**36WJ84**
Pedestal	3.5 gal	3.5 gal	Pour-In	2,400 sq ft	Brown	9	27⁵⁄₁₆"	18"	18"	AIRCARE	EP9 500	**6DMH8**
Pedestal	3.5 gal	3.5 gal	Pour-In	2,400 sq ft	Espresso	9	27⁵⁄₁₆"	18"	18"	AIRCARE	EP9800	**36WJ85**
Pedestal	9 gal	6 gal	Pour-In	2,700 sq ft	White	3	22½"	12½"	17½"	AIRCARE	831000	**48TC61**
Pedestal	12 gal	5.6 gal	Bottle	3,600 sq ft	Brown	9	23¹³⁄₁₆"	28⁵⁄₁₆"	15½"	AIRCARE	696400HB	**35XG45**
Tabletop	3 gal	2 gal	Bottle	1,000 sq ft	Blue, White	4	13½"	18½"	13"	AIRCARE	7D6 100	**2PYE9**
Tower	6 gal	2 gal	Bottle	1,200 sq ft	Black, Silver	4	26"	15"	10"	AIRCARE	D46 720	**2PYF5**
Steam Humidifiers												
Tabletop	1 gal	1 gal	Pour-In	750 sq ft	Gray, White	2	9⅞"	10½"	10¼"	AIRCARE	OWM220AWHT	**56RT75**
Ultrasonic Humidifiers, Cool Mist												
Tabletop	0.3 gal	0.3 gal	Pour-In	360 sq ft	White	Variable	9½"	6⁵⁄₁₆"	6½"	AIRCARE	AUV10AWHT	**56RT70**
Tabletop	1 gal	1 gal	Pour-In	750 sq ft	White	Variable	13"	9"	9"	AIRCARE	AUV20AWHT	**53YP63**
Tabletop	1.2 gal	1.2 gal	Pour-In	750 sq ft	Black	3	12⅜"	9⅜"	10"	AIRCARE	NU319DBLK	**56RT73**
Ultrasonic Humidifiers, Warm or Cool Mist												
Tabletop	0.8 gal	0.8 gal	Bottle	750 sq ft	Brown	3	13"	8¹³⁄₁₆"	8¹³⁄₁₆"	AIRCARE	MU320DWAL	**56RT71**
Tabletop	1.2 gal	1.2 gal	Pour-In	700 sq ft	Green, White	5	12"	12"	8"	AIRCARE	DU519DWHT	**56RT72**

33TN59

56RT75

53YP63

Compatible Grainger Part No.	Mfr. Model	Item No.
AIRCARE Humidifier Pads for Portable Humidifiers		
2PYF1, 2PYF6, 2PYF7, 2PYF9, 2PYG1, 33TN59, 35XG45, 36WJ86, 44R220, 44R221	1041	**2PYG4**
2PYF4, 36WJ85, 48TC61, 6DMH8	1043	**2PYG5**
2PYF5, 4NHG1, 4NHG2, 50KT15, 50KT16, 50KT17, 50KT18	1040	**2PYG3**
2PYF7, 33TN59, 35XG45, 36WJ86, 44R219, 44R220, 44R223	1051	**2PYG7**
44R219, 44R223	1045	**2PYG6**
4NHG1	1050	**4NHG3**
5KEF3	MAF2	**36WJ83**

Solution Type	Brand	Mfr. Model	Item No.
Cleaning Chemicals for Humidifiers, 32 oz. Container Size			
Algae and Bacteria Inhibitor	Best Air	00245	**5W009**
Cleaner	Bestair Pro	1C	**21EX24**

55FJ94

Office/Residential Dehumidifiers

Dry the air in offices, basements, and similar indoor spaces. Filter is washable.

80°F, 60% Humidity	Area - Square Feet / Capacity - Pints Per 24 Hours For Air Conditioned Spaces: 500	1000	1500	2000	2500	3000	3500
Moderately Damp	10	14	18	22	26	30	34
Very Damp	12	17	22	27	32	37	42
Wet	14	20	26	32	38	44	50
Extremely Wet	16	23	30	37	44	51	58

Daily Water Removal Cap. (80F/60 RH)	Bucket Cap.	Drain/Pump Options	Max. Noise Level	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
35 pt	16.2 pt	Built-In Drain Pump	—	23 ¼ in	15 in	12 in	Friedrich	D35B1A	**55FJ93**
50 pt	16.2 pt	Built-In Drain Pump	—	23 ¼ in	15 in	12 in	Friedrich	D50B1A	**55FJ94**
50 pt	16.9 pt	Bucket, Built-In Drain Pump, Continuous Drain	51 dB	24 ¼ in	16 in	12 ¼ in	Frigidaire	FFAP5033W1	**61DE01**
60 pt	21.1 pt	Continuous Drain	57 dB	24 ⅝ in	18 ¾ in	14 ¾ in	Frigidaire	FFAD6022W1	**55KJ69**

55HE56

Industrial Dehumidifiers

Durable units provide higher water-removal capacity than office dehumidifiers making them ideal for water-damage remediation jobs and for drying the air in warehouses, storage facilities, museums, and similar large indoor spaces. Metal housing.

Daily Water Removal Cap. (80F/60 RH)	Bucket Cap.	Drain/Pump Options	Max. Noise Level	Overall Height	Overall Width	Overall Depth	Item No.
50 pt	9.5 pt	Bucket Collection, Continuous Drain	59.5 dB	35 in	17 ⅞ in	23 ⅞ in	**55HE55**
70 pt	22.1 pt	Bucket Collection, Continuous Drain	59.6 dB	43 ⅜ in	22 ⅞ in	24 in	**55HE56**
85 pt	—	Built-In Drain Pump, Continuous Drain	59.7 dB	43 ⅜ in	22 ⅞ in	24 in	**55HE57**

60YP53

Industrial Dehumidifiers with Hour Meter

Feature an hour meter that tracks how long dehumidifier is in use on a jobsite for billing purposes. Ideal for water-damage remediation jobs where large amounts of water need to be extracted from the air, floors, and walls. Plastic housing.

Daily Water Removal Cap. (80F/60 RH)	Drain/Pump Options	Max. Noise Level	Wi-Fi & Bluetooth Capabilities	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Standard Refrigerant									
64 pt	Built-In Drain Pump, Continuous Drain	—	None	32 in	19 ½ in	20 in	Dri-Eaz	F203-A	**4AYF4**
76 pt	Built-In Drain Pump	58 dB	None	32 in	20 in	19 in	—	379A51	**379A51**
105 pt	Built-In Drain Pump	58 dB	None	32 ½ in	21 in	20 in	—	379A52	**379A52**
142 pt	Built-In Drain Pump	60 dB	None	38 in	21 in	22 in	—	379A53	**379A53**
Low-Grain Refrigerant									
100 pt	Built-In Drain Pump, Continuous Drain	53 dB	WiFi & Bluetooth	32 ⅛ in	20 in	19 ⅞ in	Dri-Eaz	LGR 6000Li	**60YP52**
130 pt	Built-In Drain Pump, Continuous Drain	62 dB	WiFi & Bluetooth	33 ½ in	20 in	20 in	Dri-Eaz	LGR 7000XLi	**60YP53**
130 pt	Built-In Drain Pump, Continuous Drain	—	WiFi & Bluetooth	40 ½ in	24 in	23 in	Dri-Eaz	LGR 2800i	**60YP51**
170 pt	Built-In Drain Pump, Continuous Drain	—	WiFi & Bluetooth	40 ½ in	24 in	23 in	Dri-Eaz	LGR3500i	**60YP54**

60YP50

Compact Industrial Dehumidifiers with Hour Meter

Fit into crawl spaces, basements, other tight areas, and have an hour meter that tracks how long unit is in use on a jobsite for billing purposes. Multiple units can be stacked for more drying capacity. Plastic housing; Wi-Fi and Bluetooth capable. Suitable for water-damage remediation jobs where large amounts of water need to be extracted from the air, floors, and walls.

Daily Water Removal Cap. (80F/60 RH)	Drain/Pump Options	Max. Noise Level	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Standard Refrigerant							
74 pt	Built-In Drain Pump, Continuous Drain	55 dB	17 ⅝ in	12 ½ in	21 ½ in	PHD-200	**60YP55**
Low-Grain Refrigerant							
80 pt	Built-In Drain Pump, Continuous Drain	55 dB	17 ⅝ in	12 ½ in	21 ½ in	Revolution LGR	**60YP50**

Stainless Steel Strip Heaters

- 5⁄16"H x 1½"W
- 5⁄16"W x ½"L slotted holes on each end
- 10-32 screw terminals (screw and nut terminals on Vulcan units)

Sheath temp.: 1200°F max. Great for applications requiring low-profile designs. UL Recognized.

Offset Terminals

Parallel Terminals

Overall Length	Mounting Dim.	Watts	120V AC Mfr. Model	120V AC Item No.	240V AC Mfr. Model	240V AC Item No.
Tempco, Offset Terminals						
5 ¼ in	4 ¼ in	125	CSH00338	**2XDV9**	CSH00339	**2XDW2**
5 ¾ in	4 ¾ in	300	CSH01596	**2XDW4**	CSH01595	**2XDW6**
6 in	5 in	150	CSH00318	**2XDW8**	CSH00321	**2XDX1**
8 in	7 in	500	CSH00066	**2XDX3**	CSH00067	**2XDX5**
10 ½ in	9 ½ in	250	CSH00068	**2XDX7**	CSH00069	**2XDX9**
14 in	13 in	500	—	—	CSH00083	**2XDY2**
37 ¼ in	36 ¼ in	1,500	CSH00145	**2XDY8**	CSH00146	**2XDZ1**
Tempco, Parallel Terminals						
5 ¼ in	4 ¼ in	125	CSH00336	**2XDZ3**	CSH00337	**2XDZ5**
5 ¾ in	4 ¾ in	300	CSH00163	**2XDZ7**	CSH00164	**2XDZ9**
6 in	5 in	150	CSH00165	**2XEA2**	CSH00166	**2XEA4**
8 in	7 in	150	CSH00169	**2XEA6**	CSH00170	**2XEA8**
8 in	7 in	250	CSH00344	**2XEC1**	CSH00171	**2XEC3**
8 in	7 in	500	CSH00323	**2XEC5**	CSH00324	**2XEC7**
10 ½ in	9 ½ in	250	CSH00172	**2XEC9**	CSH00173	**2XED2**
10 ½ in	9 ½ in	400	CSH01618	**2XED4**	CSH01433	**2XED6**
12 in	11 in	250	CSH01600	**2XED8**	CSH01601	**2XEE1**
12 in	11 in	350	CSH00346	**2XEE3**	CSH00174	**2XEE5**
14 in	13 in	300	CSH01602	**2XEE7**	CSH01603	**2XEE9**
14 in	13 in	500	CSH00175	**2XEF2**	CSH00176	**2XEF4**
17 ⅞ in	16 ⅞ in	500	CSH01606	**2XEG1**	CSH01607	**2XEG3**
17 ⅞ in	16 ⅞ in	750	CSH00177	**2XEG5**	CSH00178	**2XEG7**
17 ⅞ in	16 ⅞ in	1,000	—	—	CSH01257	**2XEG9**
19 ½ in	18 ½ in	350	CSH01608	**2XEH2**	CSH01609	**2XEH4**
19 ½ in	18 ½ in	1,200	CSH00328	**2XEH6**	CSH01619	**2XEH8**
21 in	20 in	500	CSH01610	**2XEJ1**	CSH01611	**2XEJ3**
21 in	20 in	750	CSH01620	**2XEJ5**	CSH01621	**2XEJ7**
23 ¾ in	22 ¾ in	750	CSH00179	**2XEJ9**	CSH00180	**2XEK2**
23 ¾ in	22 ¾ in	1,000	CSH01624	**2XEK4**	CSH01625	**2XEK6**
25 ½ in	24 ½ in	500	CSH01613	**2XEK8**	CSH01614	**2MXF4**
26 ¾ in	25 ¾ in	700	CSH01615	**2MXF6**	CSH01616	**2MXF8**
30 ½ in	29 ½ in	750	CSH01627	**2MXG5**	CSH01628	**2MXG7**
30 ½ in	29 ½ in	1,250	—	—	CSH01629	**2MXG9**
33 ½ in	32 ½ in	950	CSH01630	**2MXH2**	CSH01631	**2MXH4**
35 ⅞ in	34 ⅞ in	1,000	—	—	CSH00186	**2MXH5**
35 ⅞ in	34 ⅞ in	1,500	—	—	CSH00462	**2MXH6**
37 ¼ in	36 ¼ in	1,500	CSH00187	**2MXH7**	CSH00188	**2MXH8**
42 ½ in	41 ½ in	1,500	—	—	CSH01632	**2MXH9**
45 ½ in	44 ½ in	1,250	—	—	CSH01617	**2MXJ1**
47 ⅞ in	46 ⅞ in	2,250	—	—	CSH01230	**2MXJ2**
Vulcan, Offset Terminals						
8 in	7 in	150	OS1208-150A	**2E919**	OS1208-150B	**4E259**
8 in	7 in	250	OS1408-250A	**4E250**	OS1408-250B	**4E251**
10 ½ in	9 ½ in	400	OS1410-400A	**3HL91**	OS1410-400B	**3HL92**
12 in	11 in	250	OS1212-250A	**2E920**	OS1212-250B	**2E921**
12 in	11 in	350	OS1412-350A	**4E252**	OS1412-350B	**4E253**
14 in	13 in	300	OS1214-300A	**4E260**	OS1214-300B	**4E261**
14 in	13 in	500	OS1414-500A	**3HL97**	—	—
15 ¼ in	14 ¼ in	325	OS1215-325A	**3HL51**	OS1215-325B	**3HL52**
17 ⅞ in	16 ⅞ in	500	OS1217-500A	**3HL57**	OS1417-500B	**2E923**
17 ⅞ in	16 ⅞ in	500	OS1417-500A	**4E254**	OS1217-500B	**3HL58**
17 ⅞ in	16 ⅞ in	750	OS1417-750A	**3HM04**	OS1417-750B	**3HM05**
17 ⅞ in	16 ⅞ in	1,000	—	—	OS1417-1000B	**3HM03**
21 in	20 in	500	OS1221-500A	**2E922**	OS1221-500B	**4E262**
21 in	20 in	750	—	—	OS1421-750B	**3HM13**
23 ¾ in	22 ¾ in	700	OS1423-700A	**4E255**	OS1423-700B	**4E256**
23 ¾ in	22 ¾ in	750	OS1223-750A	**3HL65**	OS1223-750B	**3HL66**
23 ¾ in	22 ¾ in	1,000	—	—	OS1423-1000B	**3HM15**
23 ¾ in	22 ¾ in	1,500	—	—	OS1423-1500B	**3HM17**
25 ½ in	24 ½ in	500	OS1225-500A	**3HL67**	OS1225-500B	**3HL68**
30 ½ in	29 ½ in	750	—	—	OS1430-750B	**3HM33**
30 ½ in	29 ½ in	1,250	—	—	OS1430-1250B	**3HM31**
35 ⅞ in	34 ⅞ in	1,000	—	—	OS1235-1000B	**3HL78**
35 ⅞ in	34 ⅞ in	1,500	—	—	OS1435-1500B	**3HM37**
42 ½ in	41 ½ in	1,250	—	—	OS1242-1250B	**3HL84**
42 ½ in	41 ½ in	1,500	—	—	OS1442-1500B	**3HM43**
47 ⅞ in	46 ⅞ in	2,250	—	—	OS1448-2250B	**3HM47**

Stainless Steel Finned Strip Heaters

2XDT9

- 1½"W element
- 5⁄16"W x ½"L slotted holes
- 10-32 screw terminals
- 1⅜"H x 2"W across fins
- Mounting tabs included

Seamless 304 stainless steel tube provides the best combination of physical strength and resistance to high temps. and chemical corrosion. Sheath temp.: 1200°F max. Fins are nickel-plated steel. UL Recognized except 3HM48 and 3HM49.

Overall Length	Mounting Dim.	Watts	Watt Density	120V AC Mfr. Model	120V AC Item No.	240V AC Mfr. Model	240V AC Item No.
Tempco, Each End Terminals							
10 ½ in	9 ½ in	500	25W/sq in	CSF00521	**2XEE4**	CSF00522	**2XEE6**
10 ½ in	9 ½ in	725	45W/sq in	CSF00123	**2XEE8**	CSF00124	**2XEF1**
12 in	11 in	900	40W/sq in	CSF00131	**2XEF3**	CSF00132	**2XEF5**
14 in	13 in	750	28W/sq in	CSF00232	**2XEF7**	CSF00249	**2XEF9**
14 in	13 in	1,100	37W/sq in	CSF00135	**2XEG2**	CSF00136	**2XEG4**
15 ¼ in	14 ¼ in	1,250	37W/sq in	CSF00139	**2XEG6**	CSF00140	**2XEG8**
17 ⅞ in	16 ⅞ in	750	18W/sq in	CSF00506	**2XEH1**	CSF00524	**2XEH3**
17 ⅞ in	16 ⅞ in	1,550	38W/sq in	CSF00144	**2XEH9**	CSF00145	**2XEJ2**
19 ½ in	18 ½ in	1,000	21W/sq in	—	—	CSF00526	**2XEJ4**
19 ½ in	18 ½ in	1,700	36W/sq in	—	—	CSF00150	**2XEJ6**
21 in	20 in	1,900	36W/sq in	CSF00154	**2XEJ8**	CSF00155	**2XEK1**
23 ¾ in	22 ¾ in	1,000	16W/sq in	—	—	CSF00527	**2XEK3**
23 ¾ in	22 ¾ in	1,450	23W/sq in	CSF00529	**2XEK5**	—	—
23 ¾ in	22 ¾ in	2,200	30W/sq in	—	—	CSF00159	**2XEK7**
26 ¾ in	25 ¾ in	2,500	34W/sq in	—	—	CSF00167	**2MXF9**
30 ½ in	29 ½ in	1,800	21W/sq in	—	—	CSF00532	**2MXG2**
33 ½ in	32 ½ in	2,100	21W/sq in	—	—	CSF00533	**2MXG4**
33 ½ in	32 ½ in	3,150	32W/sq in	—	—	CSF00178	**2MXG6**
42 ½ in	41 ½ in	4,150	31W/sq in	—	—	CSF00217	**2MXH1**
48 in	47 in	2,250	15W/sq in	—	—	CSF00534	**2MXH3**
Tempco, Offset Terminals							
10 ½ in	9 ½ in	500	24W/sq in	CSF00129	**2XDT9**	CSF00130	**2XDU1**
14 in	13 in	1,100	33W/sq in	CSF00060	**2XDU2**	CSF00061	**2XDU3**
19 ½ in	18 ½ in	1,700	32W/sq in	—	—	CSF00080	**2XDU4**
23 ¾ in	22 ¾ in	1,000	15W/sq in	—	—	CSF00528	**2XDU5**
23 ¾ in	22 ¾ in	2,200	32W/sq in	—	—	CSF00090	**2XDU6**
25 ½ in	24 ½ in	2,400	33W/sq in	—	—	CSF00094	**2XDU7**
26 ¾ in	25 ¾ in	2,500	31W/sq in	—	—	CSF00100	**2XDU8**
33 ½ in	32 ½ in	3,150	31W/sq in	—	—	CSF00180	**2XDU9**
35 ⅞ in	34 ⅞ in	3,450	31W/sq in	—	—	CSF00110	**2XDV1**
42 ½ in	41 ½ in	4,150	30W/sq in	—	—	CSF00117	**2XDV2**
Tempco, Parallel Terminals							
10 ½ in	9 ½ in	500	21W/sq in	CSF00001	**2XDV5**	CSF00002	**2XDV6**
10 ½ in	9 ½ in	725	31W/sq in	CSF00003	**2XDV7**	CSF00004	**2XDV8**
12 in	11 in	900	31W/sq in	CSF00008	**2XDW1**	CSF00009	**2XDW3**
14 in	13 in	1,100	31W/sq in	CSF00012	**2XDW9**	CSF00013	**2XDX2**
17 ⅞ in	16 ⅞ in	1,000	21W/sq in	CSF00539	**2XDY3**	CSF00507	**2XDY5**
17 ⅞ in	16 ⅞ in	1,550	31W/sq in	CSF00016	**2XDY7**	CSF00017	**2XDY9**
21 in	20 in	1,900	31W/sq in	CSF00024	**2XDZ6**	CSF00025	**2XDZ8**
23 ¾ in	22 ¾ in	1,000	15W/sq in	—	—	CSF00509	**2XEA1**
23 ¾ in	22 ¾ in	2,200	31W/sq in	—	—	CSF00026	**2XEA5**
25 ½ in	24 ½ in	2,400	31W/sq in	—	—	CSF00027	**2XEC2**
26 ¾ in	25 ¾ in	2,500	30W/sq in	—	—	CSF00028	**2XEC4**
30 ½ in	29 ½ in	1,800	19W/sq in	—	—	CSF00515	**2XEC6**
33 ½ in	32 ½ in	3,150	29W/sq in	—	—	CSF00033	**2XED1**
35 ⅞ in	34 ⅞ in	3,450	30W/sq in	—	—	CSF00034	**2XED3**
42 ½ in	41 ½ in	4,150	30W/sq in	—	—	CSF00036	**2XED5**
48 in	47 in	2,250	14W/sq in	—	—	CSF00037	**2XED7**
Vulcan, Offset Terminals							
10 ½ in	9 ½ in	350	16W/sq in	OSF1510-350A	**3HM48**	OSF1510-350B	**3HM49**
10 ½ in	9 ½ in	475	22W/sq in	OSF1510-475A	**3HM50**	OSF1510-475B	**3HM51**
10 ½ in	9 ½ in	725	33W/sq in	OSF1510-725A	**2E924**	OSF1510-725B	**4E265**
12 in	11 in	900	33W/sq in	OSF1512-900A	**4E266**	OSF1512-9008	**2E925**
15 ¼ in	14 ¼ in	1,250	32W/sq in	OSF1515-1250A	**4E267**	OSF1515-1250B	**2E926**
17 ⅞ in	16 ⅞ in	1,000	21W/sq in	—	—	OSF1517-1000B	**3HM59**
17 ⅞ in	16 ⅞ in	1,550	32W/sq in	OSF1517-1550A	**4E268**	OSF1517-1550B	**4E269**
19 ½ in	18 ½ in	1,000	18W/sq in	—	—	OSF1519-1000B	**3HM63**
21 in	20 in	1,900	32W/sq in	OSF1521-1900A	**4E270**	OSF1521-1900B	**4E271**
25 ½ in	24 ½ in	1,500	20W/sq in	OSF1525-1500A	**3HM70**	OSF1525-1500B	**3HM71**
48 in	47 in	2,250	14W/sq in	—	—	OSF1548-2250B	**3HM79**

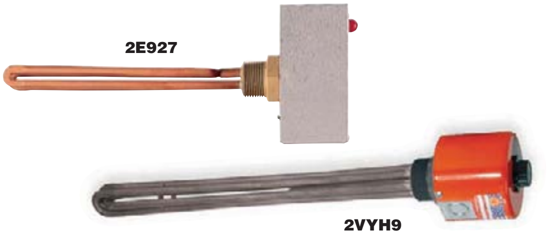
4TCR6

Cartridge Immersion Heaters

Provide greater heat dissipation in a select area than a tubular immersion heater. For use in heating water and other liquids in platen, plastic mold, die heating, liquid immersion, and air heating applications.

NPT	Min. Immersion Depth	Watts	Heater Voltage	Watt Density	Mfr. Model	Item No.
Brass Screw Plugs & High Temp. SS Sheath						
½ in	1 ½ in	100 W	120V AC	41 sq in	HDL00001	**4TCR6**
½ in	3 ½ in	250 W	120V AC	39 sq in	HDL00003	**4TCR8**
½ in	3 ½ in	1,000 W	240V AC	157 sq in	HDL00005	**4TCT1**
½ in	7 ⅞ in	500 W	120V AC	33 sq in	HDL00007	**4TCT3**
½ in	12 in	750 W	120V AC	33 sq in	HDL00011	**4TCT7**

NPT	Min. Immersion Depth	Watts	Heater Voltage	Watt Density	Mfr. Model	Item No.
½ in	12 in	3,000 W	240V AC	130 sq in	HDL00013	**4TCT9**
¾ in	4 ¼ in	500 W	120V AC	53 sq in	HDL00015	**4TCU2**
¾ in	4 ¼ in	750 W	120V AC	80 sq in	HDL00017	**4TCU4**
¾ in	4 ¼ in	1,000 W	120V AC	106 sq in	HDL00019	**4TCU6**
¾ in	4 ¼ in	1,000 W	240V AC	106 sq in	HDL00020	**4TCU7**
¾ in	4 ¾ in	375 W	120V AC	35 sq in	HDL00025	**4TCU8**
¾ in	4 ¾ in	375 W	240V AC	35 sq in	HDL00026	**4TCU9**
¾ in	4 ¾ in	1,500 W	240V AC	141 sq in	HDL00027	**4TCV1**
¾ in	6 ¼ in	500 W	120V AC	35 sq in	HDL00033	**4TCV3**
¾ in	6 ¼ in	2,000 W	240V AC	141 sq in	HDL00035	**4TCV5**
¾ in	7 ¼ in	3,000 W	240V AC	182 sq in	HDL00043	**4TCV9**
¾ in	7 ¼ in	3,000 W	480V AC	182 sq in	HDL00044	**4TCW1**
¾ in	9 in	1,000 W	120V AC	49 sq in	HDL00045	**4TCW2**
¾ in	9 in	4,000 W	240V AC	194 sq in	HDL00047	**4TCW4**
¾ in	10 ½ in	750 W	240V AC	31 sq in	HDL00050	**4TCW7**
¾ in	10 ½ in	1,250 W	120V AC	51 sq in	HDL00053	**4TCX1**
¾ in	10 ½ in	1,250 W	240V AC	51 sq in	HDL00054	**4TCX2**
¾ in	10 ½ in	3,000 W	240V AC	124 sq in	HDL00051	**4TCW8**
¾ in	10 ½ in	5,000 W	240V AC	202 sq in	HDL00055	**4TCX3**
¾ in	10 ½ in	5,000 W	480V AC	202 sq in	HDL00056	**4TCX4**
¾ in	12 ½ in	1,500 W	240V AC	52 sq in	HDL00057	**4TCX5**
¾ in	12 ½ in	6,000 W	480V AC	208 sq in	HDL00058	**4TCX6**



Screw Plug Immersion Heaters

TEMPCO · SUPPLIER DIVERSITY · Vulcan

- NEMA 1 housing, except 4E274 to 4E279

WITH THERMOSTAT

- Control range: copper, 60° to 250°F; steel (Vulcan models), 100° to 550°F; steel (Tempco models), 60° to 250°F

WITHOUT THERMOSTAT

Require external flow switch, low-liquid cutoff switch, over-temp. switch, or other safety device depending on the type of system.

AUTOMATIC RESET

- Control range: 110° to 190°F

NPT	Min. Immersion Depth	Watts	Heater Voltage	Phase	WITH THERMOSTAT Watt Density	Brand	Mfr. Model	Item No.	WITHOUT THERMOSTAT Watt Density	Brand	Mfr. Model	Item No.
Brass Screw Plug and Copper Sheath												
1 in	6 ⅜ in	500 W	120V AC	1	46 sq in	Tempco	TSP02078	**2VXR8**	46 sq in	Tempco	TSP02007	**2VXR9**
1 in	6 ⅜ in	750 W	120V AC	1	69 sq in	Tempco	TSP02079	**2VXT1**	69 sq in	Tempco	TSP02097	**2VXT2**
1 in	6 ⅜ in	1,000 W	120V AC	1	92 sq in	Tempco	TSP02080	**2VXT3**	92 sq in	Tempco	TSP02096	**2VXT4**
1 in	9 ¼ in	1,500 W	120V AC	1	90 sq in	Tempco	TSP02081	**2VXT5**	90 sq in	Tempco	TSP02099	**2VXT6**
1 ¼ in	6 in	1,000 W	120V AC	1	90 sq in	Tempco	TSP03260	**6THT3**	83 sq in	Vulcan	ASW110A	**4E274**
1 ¼ in	6 in	1,000 W	240V AC	1	90 sq in	Tempco	TSP03261	**6THT4**	83 sq in	Vulcan	ASW110B	**4E275**
1 ¼ in	6 ½ in	2,000 W	120V AC	1	94 sq in	Tempco	TSP03262	**6THT5**	80 sq in	Vulcan	ASW120A	**4E278**
1 ¼ in	6 ½ in	2,000 W	240V AC	1	94 sq in	Tempco	TSP03263	**6THT6**	80 sq in	Vulcan	ASW120B	**4E279**
1 ¼ in	7 ¼ in	1,500 W	120V AC	1	61 sq in	Tempco	TSP02082	**2VXT7**	61 sq in	Tempco	TSP02100	**2VXT8**
1 ¼ in	9 in	1,500 W	120V AC	1	84 sq in	Tempco	TSP03264	**6THT7**	84 sq in	Vulcan	ASW115A	**4E276**
1 ¼ in	9 in	1,500 W	240V AC	1	84 sq in	Tempco	TSP03265	**6THT8**	84 sq in	Vulcan	ASW115B	**4E277**
1 ¼ in	9 ¼ in	2,000 W	120V AC	1	61 sq in	Tempco	TSP02084	**2VXT9**	61 sq in	Tempco	TSP02102	**2VXU1**
2 in	8 in	2,000 W	120V AC	1	48 sq in	Vulcan	AUW220A	**4E280**	—	—	—	—
2 in	8 in	2,000 W	240V AC	1	48 sq in	Vulcan	AUW220B	**4E281**	—	—	—	—
2 in	10 in	3,000 W	240V AC	3	45 sq in	Tempco	TSP02085	**2VXU2**	45 sq in	Tempco	TSP02103	**2VXU3**
2 in	11 in	4,000 W	240V AC	3	54 sq in	Tempco	TSP02086	**2VXU4**	54 sq in	Tempco	TSP02104	**2VXU5**
2 in	11 in	5,000 W	240V AC	3	67 sq in	Tempco	TSP02087	**2VXU6**	67 sq in	Tempco	TSP02105	**2VXU7**
2 in	11 in	5,000 W	480V AC	3	67 sq in	Tempco	TSP02088	**2VXU8**	67 sq in	Tempco	TSP02106	**2VXV1**
2 in	11 ⅞ in	1,500 W	120V AC	1	48 sq in	Vulcan	AUW215A	**2E931**	—	—	—	—
2 in	11 ⅞ in	3,000 W	120V AC	1	48 sq in	Vulcan	AUW230A	**4E282**	—	—	—	—
2 in	11 ⅞ in	3,000 W	240V AC	1	48 sq in	Vulcan	AUW230B	**4E283**	—	—	—	—
2 in	16 in	7,500 W	240V AC	3	65 sq in	Tempco	TSP02089	**2VXV3**	65 sq in	Tempco	TSP02107	**2VXV5**
2 in	16 in	7,500 W	480V AC	3	65 sq in	Tempco	TSP02090	**2VXV7**	65 sq in	Tempco	TSP02008	**2VXV9**
2 in	19 ¾ in	5,000 W	240V AC	1	48 sq in	Vulcan	AUW250B	**2E932**	—	—	—	—
2 in	22 in	10,000 W	240V AC	3	61 sq in	Tempco	TSP02091	**2VXW2**	61 sq in	Tempco	TSP02009	**2VXW4**
2 in	22 in	10,000 W	480V AC	3	61 sq in	Tempco	TSP02092	**2VXW6**	61 sq in	Tempco	TSP02022	**2VXW8**
2 ½ in	32 ¼ in	12,000 W	480V AC	3	44 sq in	Tempco	TSP02093	**2VXX1**	44 sq in	Tempco	TSP02108	**2VXX3**
2 ½ in	47 ⅜ in	18,000 W	480V AC	3	44 sq in	Tempco	TSP02095	**2VXX5**	44 sq in	Tempco	TSP02110	**2VXX7**
Brass Screw Plug and Copper Sheath, Automatic Reset, Low Limit Cutout												
1 in	9 ⅛ in	1,000 W	120V AC	1	31 sq in	Vulcan	WTP906A	**2E927**	—	—	—	—
1 in	10 ⅛ in	1,500 W	120V AC	1	41 sq in	Vulcan	WTP910A	**2E928**	—	—	—	—
Stainless Steel Screw Plug and 304 SS Sheath												
1 in	6 ⅜ in	500 W	120V AC	1	48 sq in	Tempco	TSP02011	**2VYP8**	48 sq in	Tempco	TSP02241	**2VYR1**
1 in	6 ⅜ in	750 W	120V AC	1	70 sq in	Tempco	TSP02227	**2VYR3**	70 sq in	Tempco	TSP02295	**2VYR5**
1 in	6 ⅜ in	1,000 W	120V AC	1	94 sq in	Tempco	TSP02228	**2VYR7**	94 sq in	Tempco	TSP02242	**2VYR9**
1 in	9 ¼ in	1,500 W	120V AC	1	63 sq in	Tempco	TSP02230	**2VYT2**	63 sq in	Tempco	TSP02244	**2VYT4**
Stainless Steel Screw Plug and 316 SS Sheath												
1 in	6 ⅜ in	1,000 W	120V AC	1	94 sq in	Tempco	TSP02791	**2VYN5**	94 sq in	Tempco	TSP02792	**2VYN7**
1 in	9 ¼ in	1,500 W	120V AC	1	63 sq in	Tempco	TSP02793	**2VYN9**	63 sq in	Tempco	TSP02459	**2VYP2**
1 ¼ in	9 ¼ in	2,000 W	120V AC	1	61 sq in	Tempco	TSP02794	**2VYP4**	61 sq in	Tempco	TSP02795	**2VYP6**
Steel Screw Plug and Steel Sheath												
1 in	12 ⁹⁄₁₆ in	475 W	120V AC	1	21 sq in	Tempco	TSP02204	**2VYH9**	21 sq in	Tempco	TSP02216	**2VYJ2**
1 ¼ in	12 ¾ in	1,000 W	120V AC	1	23 sq in	Tempco	TSP02205	**2VYJ4**	23 sq in	Tempco	TSP02217	**2VYJ6**
1 ¼ in	18 ½ in	1,500 W	120V AC	1	23 sq in	Tempco	TSP02208	**2VYJ8**	23 sq in	Tempco	TSP02220	**2VYK1**
2 in	11 ¾ in	1,500 W	120V AC	1	23 sq in	Vulcan	AUO215A	**2E933**	—	—	—	—
2 in	18 in	3,000 W	240V AC	3	21 sq in	Tempco	TSP02209	**2VYK3**	21 sq in	Tempco	TSP02221	**2VYK5**
2 in	29 in	5,000 W	240V AC	3	21 sq in	Tempco	TSP02210	**2VYK7**	21 sq in	Tempco	TSP02222	**2VYK9**
2 in	29 in	5,000 W	480V AC	3	21 sq in	Tempco	TSP02211	**2VYL2**	21 sq in	Tempco	TSP02223	**2VYL4**
2 in	40 ⅜ in	5,000 W	240V AC	1	23 sq in	Vulcan	AUO250B	**2E934**	—	—	—	—
2 in	43 ½ in	7,500 W	480V AC	3	21 sq in	Tempco	TSP02213	**2VYL6**	21 sq in	Tempco	TSP02010	**2VYL8**
2 in	57 ½ in	10,000 W	480V AC	3	21 sq in	Tempco	TSP02215	**2VYN1**	21 sq in	Tempco	TSP02226	**2VYN3**

TEMPCO · SUPPLIER DIVERSITY · Vulcan

Drum Immersion and Bottom-Outlet Heaters

- Single phase

Drum Immersion—Include flange for mounting in 2" bung opening.

Over-the-Side—Feature sludge legs to elevate element off bottom of open container.

Bottom-Outlet—4" metal housing protects heater termination. Ring clamp mounting design with a bronze flange for mounting in a 2⁷⁄₁₆"-dia. hole.

Sanitizing Sink/Tank Immersion—Adjustable stainless steel mounting bracket and 6-ft. cord set with polarized plug included.

Watts	Watt Density	Sheath Material	Overall Length*	Riser Height	Control Range	Heater Voltage	Brand	Mfr. Model	Item No.
Drum Immersion Heaters									
1,000 W	8 sq in	Stainless Steel	19 ½ in	36 in	60° to 250°F	120V AC	Tempco	TAT30002	**2VYH2**
4,000 W	32 sq in	Stainless Steel	19 ½ in	36 in	60° to 250°F	240V AC	Tempco	TAT30001	**2VYH4**
1,000 W	8 sq in	Steel	19 ½ in	36 in	60° to 250°F	120V AC	Tempco	TAT30005	**2VYH6**
4,000 W	32 sq in	Steel	19 ½ in	36 in	60° to 250°F	240V AC	Tempco	TAT30006	**2VYH8**
Over-the-Side Immersion Heaters									
9,000 W	40 sq in	Incoloy(R)	17 in	36 in	—	240V AC	Vulcan	TIB-39TB	**3HT86** †
12,000 W	40 sq in	Incoloy(R)	40 ¼ in	54 in	—	240V AC	Vulcan	TI-312TB	**3HT66**
6,000 W	20 sq in	Steel	40 ¼ in	54 in	—	240V AC	Vulcan	TS-36TB	**3HT90**
3,000 W	40 sq in	Incoloy(R)	13 in	36 in	—	240V AC	Vulcan	TI-33TB	**3HT72**
9,000 W	40 sq in	Incoloy(R)	31 ⅛ in	36 in	—	240V AC	Vulcan	TI-39TB	**3HT75**
3,000 W	40 sq in	Incoloy(R)	10 ¾ in	36 in	—	240V AC	Vulcan	TIB-33TB	**3HT83**
6,000 W	20 sq in	Steel	20 in	54 in	—	240V AC	Vulcan	TSB-36TB	**3HT95**
Bottom-Outlet Immersion Heaters									
1,500 W	34 sq in	Copper	7 ½ in	—	—	120V AC	Vulcan	ANW115	**2E929** †
5,000 W	44 sq in	Copper	12 ⅕ in	—	—	240V AC	Vulcan	ANW250	**2E930** †
Sanitizing Sink/Tank Immersion Heaters									
1,000 W	14 sq in	316 SS	32 ½ in	26 in	60° to 250°F	120V AC	Tempco	TAT40008	**6THU3**
1,500 W	16 sq in	316 SS	32 ½ in	26 in	60° to 250°F	120V AC	Tempco	TAT40007	**6THU4**
4,000 W	56 sq in	316 SS	32 ½ in	26 in	60° to 250°F	240V AC	Tempco	TAT40006	**6THU5**
6,000 W	65 sq in	316 SS	32 ½ in	26 in	60° to 250°F	240V AC	Tempco	TAT40005	**6THU6**
6,000 W	51 sq in	316 SS	43 ¾ in	39 ¾ in	55° to 115°F	240V AC	Tempco	TAT40017	**6THU7**
1,440 W	13 sq in	316 SS	43 ¾ in	39 ¾ in	55° to 115°F	120V AC	Tempco	TAT40013	**6THU8**

** Refers to length of heated element. † Circular element configuration; Overall Length indicates diameter.*

TEMPCO

Circulation Heaters and Circulation Booster Heaters

- NEMA 1 housing
- Flanged models have high temp. stainless steel sheath material

Self-contained thermostatically controlled heating units consist of a flanged or screw-plug immersion heater mounted into a tank assembly. Replacement Heater Elements with Gasket can be used as stand-alone heaters.

Flanged

Screw Plug

					HEATERS				REPLACEMENT HEATER ELEMENTS WITH GASKET		
Watts	Watt Density	Flange Size	Heater Voltage	Phase	Overall Length	Control Range	Mfr. Model	Item No.	Overall Length	Mfr. Model	Item No.
Circulation Heaters (Flanged, 150-lb. Pressure-Rated Steel, with Tank Mounted Double Pole Thermostat)											
6000 W	48 sq in	3 in	240V AC	3	35 in	60° to 250°F	CHF02339	**2VYE3**	21 9⁄16 in	TFP02655	**2VYA2**
6000 W	48 sq in	3 in	480V AC	3	35 in	60° to 250°F	CHF02340	**2VYE5**	21 9⁄16 in	TFP02657	**2VYA4**
12,000 W	48 sq in	3 in	240V AC	3	45 in	60° to 250°F	CHF02341	**2VYE7**	36 9⁄16 in	TFP02666	**2VYA6**
12,000 W	48 sq in	3 in	480V AC	3	45 in	60° to 250°F	CHF02342	**2VYE9**	36 9⁄16 in	TFP02668	**2VYA8**
12,000 W	48 sq in	5 in	480V AC	3	—	—	—	**—**	22 15⁄16 in	TFP02708	**2VYC3**
18,000 W	48 sq in	3 in	480V AC	3	58 in	60° to 250°F	CHF02344	**2VYF2**	51 9⁄16 in	TFP02674	**2VYC1**
24,000 W	48 sq in	5 in	480V AC	3	46 in	60° to 250°F	CHF02346	**2VYF4**	37 15⁄16 in	TFP02720	**2VYC5**
40,000 W	48 sq in	5 in	480V AC	3	64 in	60° to 250°F	CHF02348	**2VYF6**	56 15⁄16 in	TFP01498	**2VYC7**

						BOOSTER HEATERS			REPLACEMENT BOOSTER HEATER ELEMENTS WITH THERMOSTAT		
Watts	Watt Density	Sheath Material	Control Range	Heater Voltage	Phase	Overall Length	Mfr. Model	Item No.	Overall Length	Mfr. Model	Item No.
Circulation Booster Heaters (Screw Plug, 1¼" Element, 1" NPT Water, with Thermostat)											
500 W	23 sq in	Steel	150° to 560°F	120V AC	1	22 in	CHF02304	**2VYC9**	13 4/7 in	TSP02750	**2VYF8**
750 W	23 sq in	Steel	150° to 560°F	120V AC	1	22 in	CHF02306	**2VYD2**	18 3⁄16 in	TSP02751	**2VYG1**
1,000 W	23 sq in	Steel	150° to 560°F	240V AC	1	—	—	**—**	20 4/9 in	TSP02752	**2VYG3**
1,500 W	34 sq in	Copper	60° to 180°F	120V AC	1	18 in	CHF02155	**2VYD6**	17 in	TSP01411	**2VYG5**
2,000 W	45 sq in	Copper	60° to 180°F	120V AC	1	18 in	CHF02156	**2VYD8**	17 in	TSP01409	**2VYG7**
3,000 W	49 sq in	Copper	60° to 180°F	240V AC	1	22 in	CHF02158	**2VYE1**	21 1⁄5 in	TSP01410	**2VYG9**

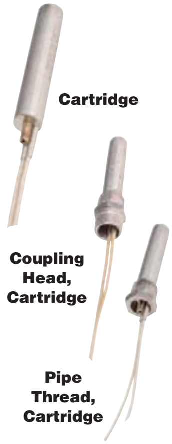
Cal-Stat Thermostats

Vulcan

- Temp. range: -100° to 600°F

Thermostats—Differential of 1°F. ½" and ⅝" dia. models are UL Recognized (E36322). ⅝" dia. models are CSA Certified (LR 23541-4).

Food Service Thermostats—For fryers and other food service equipment and replacement units. 304 stainless steel. UL Recognized (E36322) and CSA Certified (LR23541-4).



Cartridge

Coupling Head, Cartridge

Pipe Thread, Cartridge

Type	Sheath Dia.	Overall Length	Insertion Depth	Thread NPT	Switch Action	Contact Rating Resistive @ 120V	Contact Rating Resistive @ 240V	Switch Ratings @ 120VDC	Mfr. Model	Item No.
Thermostats										
Cartridge	½ in	3 ¼ in	2 ½ in	—	Open on Rise	5 A	3 A	1 A	1A1C9	**2E937**
Cartridge	½ in	3 ¼ in	2 ⅝ in	—	Close on Rise	5 A	3 A	1 A	1A2C9	**2E938**
Cartridge	⅝ in	4 ⅜ in	3 ⅝ in	—	Open on Rise	10 A	5 A	2 A	1A1B9	**2E935**
Cartridge	⅝ in	4 ⅜ in	3 ¾ in	—	Close on Rise	10 A	5 A	2 A	1A2B9	**2E936**
Coupling Head, Cartridge	½ in	3 ¼ in	2 in	⅜"-18	Open on Rise	5 A	3 A	1 A	1E1C9	**3GD96** *
Coupling Head, Cartridge	½ in	3 ¼ in	2 in	⅜"-18	Close on Rise	5 A	3 A	1 A	1E2C9	**3GD99** *
Coupling Head, Cartridge	⅝ in	4 ½ in	3 in	½"-14	Open on Rise	10 A	5 A	2 A	1E1B9	**3GD95** *
Coupling Head, Cartridge	⅝ in	4 ½ in	3 in	½"-14	Close on Rise	10 A	5 A	2 A	1E2B9	**3GD98** *
Pipe Thread, Cartridge	½ in	3 ¼ in	2 in	⅜"-18	Open on Rise	5 A	3 A	1 A	1C1C9	**2E941** *
Pipe Thread, Cartridge	½ in	3 ¼ in	2 ⅛ in	⅜"-18	Close on Rise	5 A	3 A	1 A	1C2C9	**2E942** *
Pipe Thread, Cartridge	⅝ in	4 ⅜ in	3 in	½"-14	Open on Rise	10 A	5 A	2 A	1C1B9	**2E939** *
Pipe Thread, Cartridge	⅝ in	4 ⅜ in	3 ⅛ in	½"-14	Close on Rise	10 A	5 A	2 A	1C2B9	**2E940** *
Food Service Thermostats										
Pipe Thread, Cartridge, Right Angle Lead Exit Style	⅝ in	4 ⅜ in	3 in	½"-14	Open on Rise	10 A	5 A	2 A	1C1B9-BJR	**3GD85**
Pipe Thread, Cartridge, Right Angle Lead Exit Style	⅝ in	4 ⅜ in	2 13⁄16 in	½"-14	Open on Rise	10 A	5 A	2 A	1C1B9-J	**3GD86**
Pipe Thread, Cartridge, Straight Lead Exit Style	⅝ in	4 ⅜ in	3 13⁄16 in	½"-14	Open on Rise	10 A	5 A	2 A	1C1B9-BJ	**3GD84**

*** Threaded mounting MNPT.***

3HV08

Vulcan

Low-Temperature Air Duct Heaters

For use in heating ducts and dryers up to 100°F. Finned tubular heater construction and sheet metal terminal housing with predrilled flange mount.

				240V AC/1-Phase		480V AC/3-Phase	
Min. Duct D	Element W	Watts	No. of Elements	Mfr. Model	Item No.	Mfr. Model	Item No.
Finned Tubular Air Duct Heaters, Min. Air Flow: 600 cfm							
8 in	6 in	3,000 W	3	VFT38-3B	**3HV04**	—	**—**
8 in	12 in	6,000 W	6	VFT68 -6B	**3HV08**	VFT68-6C	**3HV09**
12 in	18 in	12,000 W	9	—	**—**	VFT912-12C	**3HV10**
12 in	24 in	16,000 W	12	—	**—**	VFT1212-16C	**3HT97**

Description	Mfr. Model	Item No.
Finned Tubular Replacement Heating Elements, ¾-16 Threads		
240V AC/1-Phase, For Use With Mfr. No. VFT38-3B, VFT68 -6B	RE8-1000B	**3HP14**
480V AC/3-Phase, For Use With Mfr. No. VFT38-3C, VFT68-6C, VFT98-9C	RE8-1000C	**3HP15**
480V AC/3-Phase, For Use With Mfr. No. VFT912-12C, VFT1212-16C	RE12-1333C	**3HP07**

3HK15

3HK19

Vulcan

Industrial Heaters and Elements

Low-Profile Enclosure Heaters—1⅜"H x 2"W finned strip heaters with mounting brackets. 304 stainless steel. UL Recognized.

Finned Tubular Heating Elements—1010 carbon steel sheath with high-temperature, corrosion-resistant finish. Sheath temperature: 800°F max. 2" center-to-center mounting.

- ¾-16 threaded mounting fittings with hardware
- 8-32 screw and nut terminals

L	Mounting Dim.	Watts	Mfr. Model	Item No.
Low-Profile Enclosure Heaters, 120V AC/1-Phase				
12 ⅛ in	11⅜ in	200 W	E-OSF-1510-200A	**3HK15**
15 ⅝ in	14⅞ in	350 W	E-OSF-1514-350A	**3HK16**
19 ½ in	18¾ in	450 W	E-OSF-1517-450A	**3HK17**
25 ⅜ in	24⅝ in	700 W	E-OSF-1523-700A	**3HK18**
Overall Length	**Installation Depth**	**Watts**	**Mfr. Model**	**Item No.**
Finned Tubular Heating Elements, 240V AC/1-Phase				
12 7⁄16 in	11 5⁄16 in	2,000 W	FTH20B-B	**3HK19**
17 7⁄16 in	16 5⁄16 in	3,000 W	FTH30B-B	**3HK20**
22 7⁄16 in	21 5⁄16 in	4,000 W	FTH40B-B	**3HK21**
27 7⁄16 in	26 5⁄16 in	5,000 W	FTH50B-B	**3HK22**

High- and Low-Watt-Density Cartridge Heaters

For more cartridge heaters, go to Grainger.com®.

4NKH1

HIGH-WATT-DENSITY

Tempco
- 321 stainless steel sheath tolerates high temps.
- Sheath dia. tolerance: ±0.002"

Vulcan, Thunderbolt™— Operate up to 5 times the watt density of standard cartridge heaters.
- Corrosion-resistant alloy sheath
- Sheath dia. tolerance: +0.000" to -0.004"

LOW-WATT-DENSITY
- Corrosion-resistant 304 stainless steel sheath

Excellent for insertion into dies, molds, and platens.

Tempco
- Sheath dia. tolerance: ±0.002"

Vulcan
- Sheath dia. tolerance: +0.000" to -0.004"

Dia.	L	Watts	Watt Density	120V AC Mfr. Model	120V AC Item No.	240V AC Mfr. Model	240V AC Item No.
Tempco, High-Watt-Density, 10 in Leads, Max. Temp. 1,400°F							
⅛ in	1 ¼ in	25	90W/sq in	HDC19100	4NHY6	—	—
⅛ in	1 ¼ in	50	180W/sq in	HDC19102	4NHY8	—	—
⅛ in	1 ½ in	30	80W/sq in	HDC19103	4NHY9	—	—
⅛ in	1 ½ in	60	160W/sq in	HDC19104	4NHZ1	—	—
¼ in	1 in	80	204W/sq in	HDC00002	4NJA3	—	—
¼ in	1 in	100	255W/sq in	HDC00003	4NJA4	HDC00004	4NJA5
¼ in	1 ½ in	100	127W/sq in	HDC00016	4NJA6	—	—
¼ in	1 ½ in	200	255W/sq in	HDC00022	4NJA8	HDC00023	4NJA9
¼ in	2 in	100	85W/sq in	HDC00030	4NJC1	—	—
¼ in	2 in	250	212W/sq in	HDC00038	4NJC2	—	—
¼ in	2 ½ in	250	159W/sq in	HDC00045	4NJC3	HDC00046	4NJC4
¼ in	3 in	100	51W/sq in	HDC00050	4NJC5	—	—
¼ in	3 ½ in	300	127W/sq in	HDC00063	4NJC9	—	—
¼ in	4 in	200	73W/sq in	HDC00070	4NJD1	—	—
¼ in	4 in	300	109W/sq in	HDC00074	4NJD2	HDC00075	4NJD3
¼ in	4 ½ in	350	111W/sq in	HDC20500	4NJD4	—	—
¼ in	8 in	600	102W/sq in	—	—	HDC00102	4NJE2
⅜ in	1 in	100	170W/sq in	HDC00127	4NJE4	—	—
⅜ in	1 ½ in	250	212W/sq in	HDC00157	4NJE6	HDC00158	4NJE7
⅜ in	2 in	400	226W/sq in	HDC00184	4NJE8	HDC00185	4NJE9
⅜ in	3 in	250	85W/sq in	HDC00242	4NJF3	HDC00243	4NJF4
⅜ in	3 in	500	170W/sq in	HDC00251	4NJF5	HDC00252	4NJF6
⅜ in	3 ½ in	350	99W/sq in	HDC00263	4NJF7	HDC00264	4NJF8
⅜ in	4 in	250	61W/sq in	HDC00279	4NJF9	HDC00280	4NJG1
⅜ in	4 in	500	121W/sq in	HDC00289	4NJG2	HDC00290	4NJG3
⅜ in	5 in	300	57W/sq in	HDC00317	4NJG4	HDC00318	4NJG5
⅜ in	6 in	300	46W/sq in	HDC00347	4NJG6	HDC00348	4NJG7
⅜ in	6 in	750	116W/sq in	HDC00356	4NJG8	HDC00357	4NJG9
⅜ in	7 in	250	33W/sq in	HDC00365	4NJH1	HDC00366	4NJH2
⅜ in	7 in	600	78W/sq in	HDC00370	4NJH3	HDC00371	4NJH4
⅜ in	7 in	1,000	131W/sq in	—	—	HDC00375	4NJH5
⅜ in	8 in	300	34W/sq in	HDC00382	4NJH6	HDC00383	4NJH7
½ in	2 in	400	170W/sq in	HDC00453	4NJJ3	—	—
½ in	4 in	750	136W/sq in	HDC00545	4NJJ5	HDC00546	4NJJ6
½ in	5 in	750	106W/sq in	HDC00578	4NJJ7	HDC00579	4NJJ8
½ in	6 in	500	58W/sq in	HDC00603	4NJJ9	HDC00604	4NJK1
½ in	6 in	750	87W/sq in	HDC00606	4NJK2	HDC00607	4NJK3
½ in	6 in	1,000	116W/sq in	—	—	HDC00613	4NJK4
½ in	8 in	500	42W/sq in	HDC00642	4NJK5	HDC00643	4NJK6
½ in	8 in	1,000	85W/sq in	—	—	HDC00651	4NJK7
½ in	8 in	1,500	127W/sq in	—	—	HDC00654	4NJK8
½ in	10 in	1,000	67W/sq in	—	—	HDC00675	4NJL1
⅝ in	3 in	500	102W/sq in	HDC00755	4NJL4	HDC00756	4NJL5
⅝ in	6 in	1,000	93W/sq in	—	—	HDC00810	4NJL8
⅝ in	8 in	1,500	102W/sq in	—	—	HDC00842	4NJN1
¾ in	10 in	2,000	89W/sq in	—	—	HDC00979	4NJN7
Tempco, High-Watt-Density, 12 in Leads, Includes 10 in Braid On Leads, Max. Temp. 1,400°F							
¼ in	1 in	100	255W/sq in	HDC20468	4NJN9	—	—
¼ in	1 ¼ in	40	58W/sq in	HDC20530	4NJP2	—	—
¼ in	1 ½ in	200	255W/sq in	HDC20559	4NJW8	HDC20561	4NJP5
¼ in	2 in	100	85W/sq in	HDC20534	4NJP7	—	—
¼ in	3 in	300	153W/sq in	HDC07930	4NJR5	HDC20539	4NJR6
¼ in	4 in	300	109W/sq in	HDC20542	4NJR9	HDC20543	4NJT1
¼ in	7 in	500	100W/sq in	HDC20575	4NJT7	HDC20546	4NJT8
¼ in	10 in	750	101W/sq in	—	—	HDC13361	4NJU1
⅜ in	1 ¼ in	150	172W/sq in	—	—	HDC20552	4NJU7
⅜ in	1 ½ in	250	212W/sq in	HDC20562	4NJU9	HDC17036	4NJV1
⅜ in	2 in	150	86W/sq in	HDC10584	4NJV2	HDC20555	4NJV3
⅜ in	2 in	200	115W/sq in	HDC17278	4NJV4	HDC20556	4NJV5
⅜ in	2 in	400	226W/sq in	HDC20563	4NJV6	HDC20565	4NJV7
⅜ in	2 ½ in	500	212W/sq in	HDC20576	4NJW1	HDC20567	4NJW2
⅜ in	3 in	500	170W/sq in	HDC20577	4NJW5	HDC18241	4NJW6
⅜ in	3 ½ in	350	99W/sq in	HDC20558	4NJW7	—	—
⅜ in	4 in	250	61W/sq in	—	—	HDC13036	4NJX1
⅜ in	4 in	500	121W/sq in	HDC04315	4NJX4	HDC05557	4NJX5
⅜ in	5 in	300	57W/sq in	HDC12441	4NJX6		
⅜ in	5 in	500	96W/sq in	HDC05260	4NJX8	HDC04521	4NJX9
⅜ in	6 in	500	79W/sq in	HDC20570	4NJY3	HDC20571	4NJY5
⅜ in	6 in	750	79W/sq in	HDC20578	4NJY4	—	—
⅜ in	7 in	250	33W/sq in	HDC06130	4NJY7	HDC20579	4NJY8

Dia.	L	Watts	Watt Density	120V AC Mfr. Model	120V AC Item No.	240V AC Mfr. Model	240V AC Item No.
⅜ in	8 in	300	34W/sq in	HDC20586	4NJZ3	HDC20587	4NLJ2
⅜ in	8 in	600	68W/sq in	—	—	HDC02169	4NJZ4
½ in	1 ½ in	150	97W/sq in	HDC20590	4NJZ8	HDC20591	4NJZ9
½ in	2 in	200	86W/sq in	HDC06277	4NKA1	—	—
½ in	2 in	400	170W/sq in	—	—	HDC20592	4NKA2
½ in	2 ½ in	500	161W/sq in	HDC20595	4NKA5	—	—
½ in	3 in	250	64W/sq in	HDC09950	4NKA7	HDC05788	4NKA8
½ in	3 in	400	104W/sq in	—	—	HDC20597	4NKA9
½ in	3 in	750	193W/sq in	—	—	HDC17175	4NKC1
½ in	4 in	400	74W/sq in	—	—	HDC20599	4NKC3
½ in	4 in	550	100W/sq in	HDC20600	4NKC4	HDC20601	4NKC5
½ in	4 in	750	136W/sq in	HDC20602	4NKC6	HDC20603	4NKC7
½ in	5 in	500	72W/sq in	HDC20604	4NKC8	HDC07791	4NKC9
½ in	5 in	750	106W/sq in	HDC20605	4NKD1	HDC20606	4NKD2
½ in	6 in	500	58W/sq in	HDC04549	4NKD3	HDC20607	4NKD4
½ in	6 in	1,000	116W/sq in	—	—	HDC04715	4NKD7
½ in	8 in	500	42W/sq in	HDC20608	4NKD8	HDC20609	4NKD9
½ in	10 in	500	34W/sq in	—	—	HDC09890	4NKE3
½ in	10 in	1,000	67W/sq in	—	—	HDC13055	4NKE4
½ in	10 in	2,000	134W/sq in	—	—	HDC20626	4NKE6
Vulcan, High-Watt-Density Thunderbolt™, 10 in Leads, Max. Temp. 1,600°F							
⅜ in	1 ¼ in	100	115W/sq in	TB380A	2E905	TB380B	2E906
⅜ in	1 ¼ in	150	172W/sq in	TB3815A	2E907	TB3815B	3HR37
⅜ in	1 ½ in	100	86W/sq in	TB381A	2E908	—	—
⅜ in	2 in	150	85W/sq in	TB3816A	2E909	TB3816B	3HR38
⅜ in	2 in	200	114W/sq in	TB3821A	2E910	TB3821B	3HR48
⅜ in	2 ½ in	200	85W/sq in	TB3035A	3HP98	—	—
⅜ in	4 in	300	73W/sq in	TB386A	2E911	TB386B	2E913
⅜ in	5 in	500	95W/sq in	TB3070A	3HR18	TB3070B	3HR19
⅜ in	6 in	500	77W/sq in	TB388A	3HR55	TB388B	3HR56
½ in	1 ½ in	150	96W/sq in	TB501A	3HR64	—	—
½ in	2 in	200	85W/sq in	TB5013A	2E914	—	—
½ in	2 ¼ in	280	102W/sq in	TB503A	2E915	—	—
½ in	2 ½ in	500	160W/sq in	TB5046A	3HR78	—	—
½ in	3 in	250	64W/sq in	TB505A	3HR88	TB505B	3HR89
½ in	3 in	400	102W/sq in	—	—	TB5015B	3HR63
½ in	4 in	250	46W/sq in	TB5065A	3HR90	—	—
½ in	4 in	550	100W/sq in	TB506A	2E916	TB506B	3HR95
½ in	5 in	500	71W/sq in	TB507A	2E917	TB507B	3HT01
⅝ in	4 in	550	80W/sq in	TB6214A	3HT50	TB6214B	2E918
⅝ in	5 in	500	57W/sq in	—	—	TB6025B	3HT36
⅝ in	6 in	500	46W/sq in	—	—	TB6031B	3HT37
¾ in	6 in	1,000	77W/sq in	—	—	TB703B	3HT64
Tempco, Low-Watt-Density, 10 in Leads, Max. Temp. 1,200°F							
3/16 in	1 ½ in	20	30W/sq in	LDC00002	4NKH6	—	—
3/16 in	3 in	45	29W/sq in	LDC00005	4NKH7	—	—
¼ in	2 in	32	27W/sq in	LDC00015	4NKH1	—	—
¼ in	4 in	100	36W/sq in	LDC00022	4NKH4	—	—
¼ in	6 in	150	35W/sq in	LDC00025	4NKH5	—	—
⅜ in	2 in	60	31W/sq in	LDC01951	4NKH8	—	—
⅜ in	2 ½ in	80	32W/sq in	LDC01952	4NKH9	—	—
⅜ in	4 ½ in	150	32W/sq in	LDC00051	4NKJ2	—	—
⅜ in	6 in	250	39W/sq in	LDC00061	4NKJ3	—	—
½ in	5 in	200	28W/sq in	LDC00106	4NKJ8	LDC00107	4NKJ9
⅝ in	3 in	175	36W/sq in	LDC00171	4TCR4	—	—
⅝ in	5 in	250	28W/sq in	LDC00183	4TCR5	—	—
Vulcan, Low-Watt-Density, 10 in Leads, Max. Temp. 900°F							
⅜ in	1 ½ in	50	42W/sq in	C3910A	2E890	—	—
⅜ in	2 ⅜ in	75	34W/sq in	C3830A	2E891	—	—
⅜ in	3 in	100	34W/sq in	C3840A	2E892	—	—
⅜ in	4 in	150	36W/sq in	C3930A	2E893	—	—
⅜ in	5 in	200	38W/sq in	C3940A	2E894	—	—
½ in	2 in	100	42W/sq in	C5180A	2E895	—	—
½ in	6 in	300	35W/sq in	C5170A	2E896	C5170B	2E897
⅝ in	2 ⅜ in	150	41W/sq in	C6360A	2E898	—	—
⅝ in	4 ½ in	240	31W/sq in	C627A	3HJ87	—	—
⅝ in	7 in	350	27W/sq in	C692A	3HJ94	—	—
¾ in	4 in	300	36W/sq in	C766A	3HK06	—	—
¾ in	8 in	500	28W/sq in	C758A	3HJ97	C758B	3HJ98
1 in	6 ⅜ in	600	33W/sq in	C9770A	3HK10	—	—

4TCX7

Silicone Rubber and Tubular Enclosure Heaters

Protect enclosures against condensation, humidity, and freezing. Mount heater vertically at the bottom of the enclosure.

Silicone Rubber
- Silicone rubber vulcanized to aluminum mounting plate
- ½"H with mounting flange
- 48" leads
- Mounting holes O.C.: oblong 5/32" x 14"

Tubular
- Corrosion-resistant housing
- 3⅝"H x 1 9/16"W x 8⅜"L
- Mount via perforated holes in housing

Remote Thermostats—Can be placed anywhere in the enclosure and secured with pressure-sensitive adhesive.
- Silicone rubber base and enclosure
- 10A/250VAC, 15A/120VAC
- 48" leads

L	Mounting Dim.	Watts	W	T-Stat Closes 40°F, Opens 60°F Mfr. Model	Item No.	T-Stat Closes 110°F, Opens 140°F Mfr. Model	Item No.	T-Stat Closes 150°F, Opens 180°F Mfr. Model	Item No.
Silicone Rubber Enclosure Heaters, 120V AC, 1-Phase									
6 in	4 in	60 W	2 ½ in	EHR00007	2PCH8	EHR00008	2PCH9	EHR00009	2PCJ1
12 in	9 in	120 W	2 ½ in	EHR00014	2PCJ2	EHR00015	2PCJ3	EHR00016	2PCJ4
10 in	7 in	250 W	4 ½ in	EHR00019	2PCJ5	EHR00029	2PCJ6	EHR00030	2PCJ7

Watts	Heater Voltage	With Thermostat and Cord Mfr. Model	Item No.	Without Thermostat or Cord Mfr. Model	Item No.
Tubular Enclosure Heaters, 1-Phase					
100 W	120V AC	EHT00030	4TCX7	EHT00029	4TCX8
150 W	120V AC	EHT00032	4TCX9	EHT00031	4TCY1
250 W	120V AC	EHT00034	4TCY2	EHT00033	4TCY3
350 W	120V AC	EHT00036	4TCY4	EHT00035	4TCY5
500 W	120V AC	EHT00038	4TCY6	EHT00037	4TCY7
500 W	240V AC	—	—	EHT00039	4TCY9

Control Range (°F)	Mfr. Model	Item No.
Remote Thermostats, 120 to 240V AC, 15°F Diff.		
Open At 50, Close At 32	EHA00009	6THT9
Open At 60, Close At 40	EHA00001	6THU0
Open At 140, Close At 110	EHA00002	6THU1
Open At 180, Close At 150	EHA00003	6THU2

Raychem

Pre-Assembled Electric Heating Cables

13R101

Ready for installation and don't require cutting. Cables have either prestripped wires for hardwired connections or a NEMA plug. Self-regulating cables protect pipes, roofs, and gutter systems against damage from freezing or ice buildup. Nonregulating cables commonly install under floors to provide supplemental warmth indoors.

Cable Length	Voltage	Watts/ Ft. @ 40°F	NEMA Plug Config.	Brand	Item No.
Nonregulating, Indoor Only, Install Under Floors					
100 ft	120V AC	3 W	Hardwired	—	**6MJX1**
320 ft	120V AC	3 W	Hardwired	—	**6MJX9**
400 ft	120V AC	3 W	Hardwired	—	**6MJY1**
Self-Regulating, Indoor/Outdoor, For Pipes, Roofs & Gutters					
6 ft	120V AC	6 W	5-15P	—	**13R101**
	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK50**
	240V AC	6 W	Hardwired	—	**13R096**
	240V AC	6 W	5-15P	Frostguard by Raychem	**45RK58**
12 ft	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK51**
	120V AC	6 W	5-15P	—	**13R102**
	240V AC	6 W	Hardwired	—	**13R097**
	240V AC	6 W	5-15P	Frostguard by Raychem	**45RK59**
18 ft	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK52**
	120V AC	6 W	5-15P	—	**13R103**
	240V AC	6 W	5-15P	Frostguard by Raychem	**45RK60**
24 ft	120V AC	6 W	5-15P	—	**13R104**
	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK53**
	240V AC	6 W	5-15P	Frostguard by Raychem	**45RK61**
	240V AC	6 W	Hardwired	—	**13R099**
36 ft	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK54**
50 ft	120V AC	6 W	5-15P	—	**13R105**
	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK55**
	240V AC	6 W	Hardwired	Raychem	**2VEV9**
75 ft	120V AC	6 W	5-15P	—	**13R106**
	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK56**
100 ft	120V AC	6 W	5-15P	—	**13R107**
	120V AC	6 W	5-15P	Frostguard by Raychem	**45RK57**

Application Tape 13R091

Gel-Filled End Seal Kit 4YZ41

Plug-in Cord Set 453A32

Raychem

Accessories for Electric Heating Cables

Used to mount and wire electric heating cables.

Description	Includes	Brand	Item No.
Accessories for Approved Vendor Self-Regulating			
Application Tape	(1) Roll Glass Cloth Tape 66 ft, (10) Electric Trace Labels	—	**13R091**
Downspout Hanger	(2) Tie Straps	—	**13R092**
End Seal Kit	(2) End Seals	—	**13R095**
Plug In Cord Set	(1) Plug and (1) End Seal and Materials of Either (1) Tee or (1) Splice	—	**453A32**
Permanent Power Connection Kit	All Materials Needed for One Hard Wired Power Connection into Standard Junction Box, End Seal	—	**13R088**
Roof Clips	(50) Roof Clips	—	**13R094**
Splice and Tee Kit	(1) End Seal and Materials for Either (1) Tee or (1) Splice	—	**13R090**
Accessories for Raychem Cut-to-Length			
Application Tape	(1) Roll Glass Cloth Tape 66 ft L, ½ in W, (10) Electric Trace Labels	Raychem	**4E521**
Downspout Hanger	(2) Tie Straps	Raychem	**5JC41**
Gel Filled End Seal Kit	(2) End Seals	Raychem	**4YZ41**
Permanent Power Connection Kit	All Materials Needed for One Hard Wired Power Connection into Standard Junction Box, End Seal	Raychem	**4E519**
Plug In Cord Set for 120V	All Materials Needed for One 120V Plug-in Power Connection, End Seal	Raychem	**4DC48**
Roof Clips	(10) Roof Clips	Raychem	**5JC37**
Roof Clips	(50) Roof Clips	Raychem	**5JC39**
Splice and Tee Kit	(1) End Seal and Materials for Either (1) Tee or (1) Splice	Raychem	**4DC50**

4E515

Raychem BriskHeat®

Cut-to-Length Electric Heating Cables

- Self-regulating

Packaged in bulk so they can be cut to the length needed. Accessories are required for mounting and wiring. Used on pipes, roofs, and gutter systems to prevent freezing or ice buildup.

Cable Length	Voltage	Watts/ Ft. @ 40°F	NEMA Plug Config.	Brand	INDOOR ONLY Item No.	INDOOR/ OUTDOOR Item No.
250 ft	120V AC	6 W	Hardwired	Raychem	**4E511**	**4E515**
	120V AC	6 W	Hardwired	—	**13R081**	**13R085**
	120V AC	4 W	Hardwired	—	**13R079**	—
	120V AC	3 W	Hardwired	Raychem	**6E895**	—
	240V AC	6 W	Hardwired	—	**13R083**	**13R087**
	240V AC	6 W	Hardwired	Raychem	**4E513**	**4E517**
50 ft	120V AC	6 W	Hardwired	—	**13R080**	**13R084**
	120V AC	6 W	Hardwired	Raychem	**2VEV6**	**2VEV8**
	240V AC	6 W	Hardwired	—	**13R082**	**13R086**
	240V AC	6 W	Hardwired	Raychem	**2VEV7**	—
100 ft	120V AC	6 W	5-15P	Briskheat	—	**40PN25**
50 ft	120V AC	6 W	5-15P	Briskheat	—	**40PN15**
75 ft	120V AC	6 W	5-15P	Briskheat	—	**40PN23**

13R074

Raychem

Cut-to-Length Electric Heating Cable Kits

- Self-regulating
- Hardwired

Include a roll of cable, a power connection kit, a splice and tee kit, and a roll of application tape. Cables can be cut to length as needed for each job. Used with pipes, roofs, and gutter systems.

Cable Length	Voltage	Watts/ Ft. @ 40°F	Includes	Brand	INDOOR ONLY Item No.	INDOOR/ OUTDOOR Item No.
100 ft	120V AC	3 W	Power Connection Kit, Roll of Application Tape, Splice and Tee Kit	Raychem	**6E896**	—
		4 W	(1) 13R090 Splice/Tee Kit, (1) 13R091 Roll of Tape/Labels, (1) Roll of Cable, (2) 13R088 Power Connection Kits	—	**13R074**	—
		6 W	(1) 13R090 Splice/Tee Kit, (1) 13R091 Roll of Tape/Labels, (1) Roll of Cable, (2) 13R088 Power Connection Kits	—	**13R075**	**13R077**
		6 W	Power Connection Kit, Roll of Application Tape, Splice and Tee Kit	Raychem	**4E512**	**4E516**
	240V AC	6 W	Power Connection Kit, Roll of Application Tape, Splice and Tee Kit	Raychem	**4E514**	**4E518**
		6 W	(1) 13R090 Splice/Tee Kit, (1) 13R091 Roll of Tape/Labels, (1) Roll of Cable, (2) 13R088 Power Connection Kits	—	**13R076**	**13R078**

55KH88 | 6DMH6 | 2RA10 | 2PY99 | 1VNX8 | 1VNX7

SENGOKU · Air King Ventilation Products · Dayton

Portable Pedestal & Tower Electric Office Heaters

These heaters take up little floor space and are typically placed in office spaces and reception areas. Units use fan-forced heating.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Non-Oscillating										
420W	Mechanical Controls, Overheat Protection, Tip-Over Switch	Base	2	Beige, Gray	24 in	12 in	12 in	Sengoku	SM-G420A	**55KH88**
900W/1500W	Mechanical Controls, Overheat Protection, Programmable	Glide System Pivot	2	Black, Silver	24 15/16 in	6 1/2 in	16 11/16 in	Air King	8602	**6DMH6**
Oscillating										
900W/1500W	Mechanical Controls, Overheat Protection, Programmable, Remote Control	3-Prong Grounded Plug, Multi Function Remote Control	2	Gray	34 in	7 1/4 in	9 1/4 in	Air King	8566	**2RA10**
	Mechanical Controls, Overheat Protection, Programmable, Remote Control	3-Prong Grounded Plug, Multi Function Remote Control with (2) AAA Batteries	2	Gray	23 in	7 1/4 in	8 1/2 in	Air King	8132	**2PY99**
	Mechanical Controls, Overheat Protection, Programmable, Remote Control, Tip-Over Switch	"Cool-Touch" Housing, (2) AAA Batteries, 2-Prong Polarized Plug, Remote Control	2	Gray	16 7/8 in	7 1/2 in	8 in	Dayton	1VNX8	**1VNX8**
	Mechanical Controls, Overheat Protection, Tip-Over Switch	"Cool-Touch" Housing, 2-Prong Polarized Plug, Non-Slip Rubber Feet	2	Gray	16 7/8 in	7 1/2 in	8 in	Dayton	1VNX7	**1VNX7**

53TY91

53TY90

Dayton

Portable Radiator-Style Electric Office Heaters

Heating element is contained in an oil-filled radiator to provide consistent warmth and to give off residual heat even after the unit is shut off. Heaters use convection-style heating and don't have moving parts, so they operate quietly. Units have tip-over switches and will shut off automatically if knocked over.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Item No.
1500W	Mechanical Controls, Overheat Protection, Programmable, Remote Control, Tip-Over Switch	(2) AAA Batteries, Adjustable Thermostat, Digital LED Display, Handle, Heavy Duty Casters	2	Black	25 1/4 in	14 1/4 in	11 in	**53TY91**
	Mechanical Controls, Overheat Protection, Tip-Over Switch	Adjustable Thermostat, Handle, Heavy Duty Casters	3	Gray	25 1/4 in	14 1/4 in	11 in	**53TY90**

4NHG9 | 1DKW3 | 181X32 | 1VNY2

SENGOKU · QMARK · Cozy · Dayton

Portable Flat Panel Electric Office Heaters

Typically placed under desks for personal comfort heating. Heaters use radiant heat to efficiently and silently heat people and objects without having to warm the ambient air.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
150W	Mechanical Controls, Overheat Protection, Tip-Over Switch	Supporting Legs	1	Blue	15 in	21 in	1 in	Sengoku	SP160	**4NHG9**
170W	Mechanical Controls, Overheat Protection	3-Prong Grounded Plug, Floor Stand	1	White	15 in	22 in	1 in	Qmark	202SLB	**1DKW3**
200W	Mechanical Controls	Handle	2	Black	19 in	12 in	5/8 in	Cozy	CL-2	**181X32**
900W/1500W	Mechanical Controls, Overheat Protection	"Cool-Touch" Housing, 2-Prong Polarized Plug, Digital Display, Non-Slip Rubber Feet	2	Gray	10 3/8 in	15 3/8 in	6 in	Dayton	1VNY2	**1VNY2**

6DMH7

3UG01

1VNX4

31TR35

54UD13

1EVG3

Portable Electric Baseboard Heaters

- 120VAC

Units plug into outlets instead of being hardwired to provide warm air wherever it's needed. They use either a finned metal heating element or an oil-filled one and work by convection for spot or supplemental heat. They position along a wall's baseboard in small areas like offices or bedrooms. Integral thermostat included.

Wattage Output	Key Features	NEMA Plug Config.	No. of Heat Settings	Housing Color	Overall Length	Overall Height	Overall Depth	Brand	Mfr. Model	Item No.
Commercial Grade, Convection										
1500W	Overheat Protection, Programmable, Tamper Resistant, Tip-Over Switch	5-15P	1 Plus Auto	White	39 ¾ in	9 in	5 ½ in	Air King	8620	**6DMH7**
Residential Grade, Convection										
750W/1500W	Overheat Protection, Programmable	1-15P	2	Black	33 1/16 in	8 7/16 in	5 ¼ in	—	12H977	**12H977**
1000W/1500W	Overheat Protection	5-15P	2	White	45 in	7 ½ in	5 ½ in	Dayton	3UG01	**3UG01**
1500W	Overheat Protection	1-15P	1	Gray, White	38 7/8 in	9 1/16 in	5 1/16 in	Dayton	1VNX4	**1VNX4**
	Overheat Protection	5-15P	1	White	48 in	5 ¼ in	7 ½ in	Tpi Corp.	483 TM	**31TR35**
	Overheat Protection, Programmable	1-15P	1	Gray, White	38 7/8 in	9 1/16 in	5 1/16 in	Dayton	1EVG2	**1EVG2**
	Overheat Protection, Tip-Over Switch	5-15P	1	White	58 in	8 3/8 in	6 in	Dayton	54UD13	**54UD13**
Residential Grade, Fan Forced										
750W/1500W	Overheat Protection	1-15P	2	Gray, White	27 ½ in	15 ¼ in	7 in	Dayton	1EVG3	**1EVG3**

Portable Electric Heated Floor Mats

Typically placed at the entrance to offices and other buildings to melt snow and ice and prevent people from slipping. Can also be placed on the floor at a desk or workspace for personal comfort heating. Mats have a quiet internal heating element that's protected with a GFCI integrated in the power cord.

Wattage Output	No. of Heat Settings	Color	Overall Length	Overall Width	Overall Depth	Mfr. Model	Item No.
55W/105W	1	Black	18 in	12 3/8 in	1 ¾ in	TT	**181X29**
60W	1	Gray	17 ¾ in	17 ¾ in	¼ in	CT	**181X33**
120 W	1	Black	22 15/16 in	13 15/16 in	11/16 in	FW	**181X30**
135W	1	Black	36 ¼ in	16 in	¼ in	FWB	**181X31**
240W	1	Black	35 in	33 in	½ in	ICE-SNOW	**35WX79**

181X29

35WX79

1VNW9

35WX78

402M62

3DZR7

16D138

3VU37

12H976

1VNX1

Portable Electric Desk Heaters

Use convection or fan-forced air to quickly warm an area after a few minutes of operation. Typically placed on desks, work surfaces, or floors to provide supplemental heat to a room or for an individual.

Wattage Output	Key Features	Includes	No. of Heat Settings	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Non-Oscillating										
650W/1000W/1500W	Mechanical Controls, Overheat Protection, Tip-Over Switch	2-Prong Polarized Plug, Handle	3	Gray	10 in	7 5/8 in	7 ½ in	Dayton	1VNW9	**1VNW9**
750W	Mechanical Controls, Overheat Protection, Remote Control, Tip-Over Switch	Handle	2	Black	11 in	7 ½ in	7 ½ in	Cozy	ESH	**35WX78**
750W/1500W	Mechanical Controls, Overheat Protection	Fold Down Handle, Two-Stage Thermostat	2	Gray, White	11 ½ in	10 ¼ in	6 in	Dayton	402M62	**402M62**
900W/1500W	Mechanical Controls, Overheat Protection	3-Prong Grounded Plug, Close Mesh Blower Guard	2	Gray	11 ¾ in	6 ¾ in	8 ¾ in	Air King	8945	**3DZR7**
	Mechanical Controls, Overheat Protection, Programmable, Tip-Over Switch	3-Prong Grounded Plug, Onboard Cord Storage	2	Silver	16 9/16 in	12 15/16 in	16 ¾ in	Air King	8101	**16D138**
1000W/1500W	Mechanical Controls, Overheat Protection	3-Prong Grounded Plug, Back up Thermal Fuse	2	Black	6 ¾ in	5 in	7 in	Dayton	3VU37	**3VU37**
1500W	Mechanical Controls, Overheat Protection, Programmable, Remote Control, Tip-Over Switch	"Cool-Touch" Housing, (2) AAA Batteries, 3-Prong Grounded Plug, Automatic Thermostat, LED Display, Remote Control	2 & Auto	Brown	15 7/16 in	10 5/8 in	12 5/8 in	—	12H976	**12H976**
Oscillating										
900W/1500W	Mechanical Controls, Overheat Protection, Tip-Over Switch	2-Prong Polarized Plug	2	Gray	10 ¾ in	8 3/8 in	7 5/8 in	Dayton	1VNX1	**1VNX1**

1DKX3

3VU33

3VU34

55VL95

32MY65

Portable Standard Electric Jobsite & Garage Heaters

Tubular heating element provides high-efficiency heating. Units use fan-forced air. Heaters are protected with an internal thermal cutout that shuts off the heater if it overheats and can be manually reset when the temperature returns to normal. Unit-mounted thermostat included.

Wattage Output	Voltage	NEMA Plug Config.	Air Temp. Rise	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
0.6kW/0.9kW/1.5kW	120V AC	5-15P	—	11 ⅜ in	11 ¾ in	11 9⁄16 in	Air King	8900	**1DKX3**
	120V AC	5-15P	140 °F	15 in	11 ½ in	11 in	Dayton	3VU31	**3VU31**
0.75kW/0.9kW/1.5kW	120V AC	5-15P	72 °F	15 in	11 in	12 in	Markel Products	198-TMC	**31TR31**
0.95kW/1.5kW	120V AC	5-15P	69 °F	10 in	11 ¼ in	7 in	Tpi Corp.	178-TMC	**31TR32**
1.3kW/1.5kW	120V AC	5-15P	67 °F	16 in	10 in	9 ½ in	Tpi Corp.	188-TASA	**31TR33**
	120V AC	5-15P	170 °F	16 in	10 in	8 in	Dayton	3VU33	**3VU33**
1.5kW	120V AC	5-15P	74° to 119°F	14 in	12 in	12 in	Pro-Temp	PT-515-120	**32MY65**
3kW	208/240V AC	L6-20P	89° to 140°F	16 in	13 in	14 ½ in	Pro-Temp	PT-53-240	**32MY66**
3kW/4kW	208/240V AC	6-30P	85 °F	14 in	10 ¾ in	10 ¾ in	Dayton	3VU34	**3VU34**
	208/240V AC	6-20P	48 °F	17 ½ in	13 ½ in	11 ½ in	Fostoria	HF684-TC	**55VL95**
3.6kW/4.8kW	208/240V AC	6-30P	95 °F	14 in	10 ¾ in	10 ¾ in	Dayton	3VU35	**3VU35**
4.2kW/5.6kW	208/240V AC	6-30P	67 °F	17 ½ in	13 ½ in	11 ½ in	Fostoria	HF686-TC	**55VL96**
	208/240V AC	6-30P	105 °F	15 ⅞ in	11 ½ in	11 ½ in	Dayton	3VU36	**3VU36**
4.8 kW	240V AC	6-30P	94.8 °F	11 1/20 in	8 9⁄10 in	7 ¼ in	Cadet	EMC4240G	**794CL8**

52JP79

20HN58

49EL86

1RKT2

Portable Salamander Electric Jobsite & Garage Heaters

Use fan-forced air to provide clean, odor-free tempered heat, which raises the area's temperature by a specified amount. Units heat enclosed spaces. Automatic overheat protection prevents damage to the unit. Heaters also have an option to be used as a fan. Built-in thermostat included.

Wall-Mounting Brackets—Convert salamander heaters for wall- or ceiling-mount with horizontal air flow. Bottom of heater must be at least 6 ft. from the floor.

Field-Installed Cable Kits—Leads are terminated with #10 ring terminals. Cord grip (connector) is included.

Wattage Output	Voltage	Phase	NEMA Plug Config.	Air Temp. Rise	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters										
6kW	208/240V AC	1	14-30P	100 °F	17 in	12 in	20 in	Heat Wagon	P600	**52JP79**
9kW	208/240V AC	1	14-50P	100 °F	18 in	12 in	23 in	Heat Wagon	P900	**52JP80**
	240V AC	1	14-50P	35 °F	39 in	23 ¼ in	21 5⁄16 in	Fostoria	FES-0924-1C	**20HN58**
10kW	240V AC	1	14-50P	39 °F	39 in	23 ¼ in	21 5⁄16 in	Fostoria	FES-1024-1CA	**3LY28**
	240V AC	1	Hardwired	35° to 88°F	40 in	30 in	24 in	Qmark	MEDH1021CKA	**49EL86**
	240V AC	1	Hardwired	90 °F	38 ½ in	28 ¾ in	21 ½ in	Dayton	1RKT5	**1RKT5**
12kW/18kW	208/240V AC	1	Hardwired	100 °F	20 in	14 in	30 in	Heat Wagon	P1800-1	**5PFX2**
	208/240V AC	3	Hardwired	70 °F	20 in	14 in	30 in	Heat Wagon	P1800D	**52JP81**
	208/240V AC	3	Hardwired	100 °F	20 in	14 in	30 in	Heat Wagon	P1800-3	**5PFX3**
15kW	208V AC	3	Hardwired	35° to 88°F	40 in	30 in	24 in	Qmark	MEDH1583A	**49EL87**
	208V AC	3	Hardwired	59 °F	39 in	23 ¼ in	21 5⁄16 in	Fostoria	FES-1520-3A	**3UD73**
	208V AC	3	Hardwired	116 °F	38 ½ in	28 ¾ in	21 ½ in	Dayton	1RKT9	**1RKT9**
	240V AC	1	Hardwired	57 °F	38 ½ in	28 in	21 9⁄16 in	Dayton	1RKT3	**1RKT3**
	240V AC	1	Hardwired	59 °F	39 in	23 ¼ in	23 5⁄16 in	Fostoria	FES-1524-1A	**3LY27**
	240V AC	1	Hardwired	59° to 141°F	40 in	30 in	24 in	Qmark	MEDH1521A	**49EL88**
	240V AC	3	Hardwired	59 °F	39 in	23 ¼ in	21 5⁄16 in	Fostoria	FES-1524-3E	**3E216**
	240V AC	3	Hardwired	59° to 141°F	40 in	30 in	24 in	Qmark	MEDH1523A	**49EL89**
	240V AC	3	Hardwired	116 °F	38 ½ in	28 ¾ in	21 ½ in	Dayton	1RKT2	**1RKT2**
	480V AC	3	Hardwired	45 °F	39 in	27 in	21 in	Fostoria	P15-FES-3E	**786DX4**
	480V AC	3	Hardwired	46 °F	38 9⁄16 in	25 in	26 ¼ in	Dayton	784JH9	**784JH9**
	480V AC	3	Hardwired	70° to 172°F	40 in	30 in	24 in	Qmark	MEDH1543A	**49EL90**
16kW/32kW/40kW	440/480V AC	3	Hardwired	100 °F	25 in	20 in	46 in	Heat Wagon	P4000	**5PFX4**
24kW/48kW/60kW	440/480V AC	3	Hardwired	100 °F	25 in	20 in	46 in	Heat Wagon	P6000	**5PFX5**
30kW	480V AC	3	Hardwired	83 °F	39 in	27 in	23 in	Fostoria	P30-FES-3A	**786DX5**
	480V AC	3	Hardwired	160 °F	38 ½ in	28 ¾ in	22 in	Dayton	1RKU2	**1RKU2**
	600V AC	3	Hardwired	35° to 89°F	38 ½ in	44 in	25 ½ in	Qmark	SDH3093	**2HDA3**
45kW	480V AC	3	Hardwired	64 °F	39 in	23 ¼ in	45 ½ in	Fostoria	FES-4548-3	**5JNK8**
48kW	600V AC	3	Hardwired	59° to 142°F	38 ½ in	44 in	25 ½ in	Qmark	SDH4893	**2HDA5**
60kW	480V AC	3	Hardwired	74 °F	39 ¼ in	23 in	45 ½ in	Fostoria	FES-6048-3	**55VL73**

Description	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Wall Mounting Bracket	Dayton Electric Salamander Heaters: 1RKT2C, 1RKT3C, 1RKT4C, 1RKT5C, 1RKT9C, 1RKU2C	Dayton	1RKU1	**1RKU1**
	Fostoria, FES-09, FES-10, FES-15 & FES-30 Model Salamander Heaters	Fostoria	WMK-FES	**3WB11**
Field Installed Cable Kit, 4/3 SO	Mfr. No. FES-1524-1A, YES-1524-1A	Fostoria	SO 4/3	**3LY29**
Field Installed Cable Kit, 6/4 SO	3E216, 3UD73, 49EL87, 49EL89, 5E168	Fostoria	SO 6/4	**3LY30**
Field Installed Cable Kit, 12/4 SO	Mfr. No. FES-1548-3E, YES-1548-3E, FES-1560-3A, YES-1560-3A	Fostoria	SO 12/4	**3LY32**

Sizing Chart	Max. Sq. Ft.*	Max. Ceiling Height
9 to 10 kW	750 up to 1000	12 ft.
15 kW	1000 up to 1500	15 ft.
30 kW	1500 up to 2000	18 ft.
45 kW	2000 up to 2400	24 ft.
60 kW	2400 up to 3600	36 ft.

*** Based on using one single unit.***

3NPV5

2ELP2

49K236

Portable Electric Ducted & Tent Heaters

Used for heating tents and other confined work areas. 49K236 is variable-speed.

Heating Capacity	Wattage Output	Voltage	NEMA Plug Config.	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
For Use With Work Tents										
5,115 BtuH	1,500 W	120V AC	5-15P	115 cfm	12 in	8 in	12 in	Allegro	9401-50	**3NPV5**
For Use With SVH-3 Ducting										
23,900 BtuH	3,500 W	240V AC	L6-30P	1,000 cfm	16 in	15 ½ in	27 ½ in	Air Systems International	SVF-7KW-8	**2ELP2**
For Use With Structural Drying, Sanitizing, and Emergency Heating										
37,000 BtuH	11 kW	200/240V AC	Requires Cord	475 cfm	18 in	11 in	30 in	Omnitec Design Inc.	OVH230	**49K236**
37,000 BtuH	11 kW	200/240V AC	Requires Cord	475 cfm	18 in	11 in	30 in	Omnitec Design Inc.	OVH230RT	**49K237**

45EM35

786DY0

Portable Infrared Radiant Electric Jobsite & Garage Heaters

Efficiently and quietly warm people and objects without having to bring up the ambient air temperature. Provide spot heating to enclosed and semiprotected areas. Also used to cure a variety of finishes with a lower chance of blistering or overheating than other types of heaters.

Note: Not for use in hazardous or chemical-laden atmospheres, or unprotected wet locations. Heaters should be used outdoors temporarily only.

Multiple heaters may be required to achieve required watts for desired coverage.

5JNK7

	Non-Protected Heated Area (sq. ft.)		Semi-Protected Heated Area (sq. ft.)	
Watts	Below 35°F	Above 35°F	Below 35°F	Above 35°F
1450	25	36	40	50
3150	64	75	90	125
4300	85	100	120	150
9500	192	225	270	375

Wattage Output	Voltage	Phase	NEMA Plug Config.	Beam Pattern	Overall Height	Overall Width	Overall Length	Mfr. Model	Item No.
Stationary, Flat Panel Emitter									
1450W	120V AC	1	5-15P	60 °	13 ½ in	11 ½ in	—	FSP-1412-1C	**45EM35**
3150W	480V AC	1	Hardwired	60 °	13 ½ in	11 ½ in	—	FSP-3148-1	**45EM37**
Wheeled, Flat Panel Emitter, Includes Steel Cart									
3150 W	240V AC	1	Hardwired	60 °	45 3⁄16 in	11 ½ in	12 ¾ in	H31-FSP-1	**786DX6**
4300W	240V AC	1 or 3	Hardwired	60 °	17 in	19 ⅞ in	—	FSP-4324-3	**45EM38**
4300W	480V AC	1 or 3	Hardwired	60 °	17 in	19 ⅞ in	—	FSP-4348-3	**45EM39**
9500W	480V AC	1 or 3	Hardwired	60 °	19 in	19 ⅞ in	—	FSP-9548-3	**45EM41**
9550 W	240V AC	1, 3	Hardwired	60 °	53 ¾ in	19 ¾ in	16 ¼ in	H95-FSP-3	**786DY0**
Wheeled, Quartz Lamp, Includes Casters and Hinged Panels to Direct Infrared Heat									
4800W	240V AC	1 or 3	Hardwired	—	30 in	44 ⅝ in	—	HP-5-QT	**3HML1**
6400W	240V AC	1 or 3	Hardwired	—	30 in	66 ⅝ in	—	HP-6-QT	**3HML2**
11,200W	240V AC	1 or 3	Hardwired	—	30 in	66 ⅝ in	—	HP-11-QT	**3HML3**
Wheeled, Quartz Tube, Includes Adjustable Stand									
1500W	120V AC	1	5-15P	60 °	72 in	53 in	—	PCH-48C	**5JNK7**

Description	Mfr. Model	Item No.
Cart		
For Use With Mfr. No. FSP-43 and FSP-95 Infrared Portable Heaters	FHK-1	**4E527**
Field Installed Cable Kits - 25 ft, 600V AC Rated, Include Cable Grip, Wire Sleeves		
8/4 SO, For Use With Mfr. No. FSP-9520-3	SO 8/4	**3LY31**
14/3 SO, For Use With Mfr. No. FSP-3120-1, FSP-3124-1, FSP-4324-3, FSP-4327-1, FSP-9557-3	SO 14/3	**3LY34**
14/4 SO, For Use With Mfr. No. FSP-4320-3, FSP-4324-3, FSP-4348-3, FSP-4357-3, FSP-9548-3, FSP-9557-3-3	SO 14/4	**3LY35**

Description	Voltage	Mfr. Model	Item No.
Safety Switches for Flat Panel Emitter Heaters			
Disconnect Switch, For Use With All FSA/FSS & FSP Models	600V AC	DC-SK-1	**2KDC8**
Tip Over Switch, For Use With FSP 43/95kW Models	—	TO-SK-1	**2KDC9**

14C436

14C455

Under-Floor Electric Heating Systems

Provide concentrated warmth at ground level. Systems consist of mats with built-in heating coils that are positioned between the subfloor and finished floor. Easy to install and used in renovations or new construction. Compatible with most subfloors. Remote-mounted thermostat required (sold separately).

For Ceramic Tile, Marble, Porcelain, Stone, Carpet, Vinyl Tile—Can be installed under carpet, vinyl, laminate, and glued-down floors with self-leveling cement. Include factory-attached 10-ft. lead wire.

For Laminate, Wood—Suitable for floating and glue-down laminate, wood, and engineered wood floors; no cement required. Include 20-ft. lead wire.

Overall Length	Overall Width	Heating Area	Voltage	Mfr. Model	Item No.
For Carpet, Ceramic Tile, Marble, Porcelain, Stone, Vinyl Tile					
5 ft	18 in	7.5 sq ft	120V AC	WW5-120	**14C436**
7 ft	18 in	10.5 sq ft	120V AC	WW7-120	**14C437**
10 ft	18 in	15 sq ft	120V AC	WW10-120	**14C438**
10 ft	18 in	15 sq ft	240V AC	WW10-240	**14C446**
14 ft	18 in	21 sq ft	240V AC	WW14-240	**14C447**
15 ft	18 in	22.5 sq ft	120V AC	WW15-120	**14C439**
20 ft	18 in	30 sq ft	120V AC	WW20-120	**14C440**
20 ft	18 in	30 sq ft	240V AC	WW20-240	**14C448**
30 ft	18 in	45 sq ft	120V AC	WW30-120	**14C441**
30 ft	18 in	45 sq ft	240V AC	WW30-240	**14C449**
40 ft	18 in	60 sq ft	120V AC	WW40-120	**14C442**
40 ft	18 in	60 sq ft	240V AC	WW40-240	**14C450**
50 ft	18 in	75 sq ft	120V AC	WW50-120	**14C443**
60 ft	18 in	90 sq ft	120V AC	WW60-120	**14C444**
60 ft	18 in	90 sq ft	240V AC	WW60-240	**14C451**
80 ft	18 in	120 sq ft	240V AC	WW80-240	**14C452**
100 ft	18 in	150 sq ft	240V AC	WW100-240	**14C453**
120 ft	18 in	180 sq ft	240V AC	WW120-240	**14C454**
For Laminate, Wood					
5 ft	18 in	7.5 sq ft	120V AC	1505-120	**14C455**
5 ft	36 in	15 sq ft	120V AC	3005-120	**14C457**
5 ft	36 in	15 sq ft	240V AC	3005-240	**14C461**
10 ft	18 in	15 sq ft	120V AC	1510-120	**14C456**
10 ft	18 in	15 sq ft	240V AC	1510-240	**14C459**
10 ft	36 in	30 sq ft	120V AC	3010-120	**14C458**
10 ft	36 in	30 sq ft	240V AC	3010-240	**14C462**
20 ft	18 in	30 sq ft	240V AC	1520-240	**14C460**
20 ft	36 in	60 sq ft	240V AC	3020-240	**14C463**

Description	Mfr. Model	Item No.
Accessories		
Electric Floor Heater Thermostat, 120V AC, Includes Floor Sensor	MTC-2991	**14C467**
Electric Floor Heater Thermostat, 240V AC, Includes Floor Sensor	MTC-1991	**14C468**
InstAlarm Monitor, Includes 9V Battery, Instructions, Screw Driver	INSTALRM	**14C470**
TT Deluxe Install Kit, ⅜ in Plastic Trowel, InstAlarm Monitor, Multimeter, Ultra Light Kneepads	IK-TAMK	**14C471**
Plastic Trowel, ⅜ in Square Notch	TRWL3838	**20UG51**
Heavy Duty Plastic Trowel, ½ in X ⅜ in Notch	TRWL3812	**20UG52**

2YV10

Kickspace Electric Heaters

- Black grille color

Recess in under-cabinet spaces and provide supplemental heat where space is limited, such as kitchens, bathrooms, and checkout counters. They wire into an opening at the base of a cabinet. Can be controlled with a required surface-mount thermostat or a wall thermostat (sold separately).

Wattage Output	Voltage	Rough-In Width	Rough-In Height	Rough-In Depth	Brand	Mfr. Model	Item No.
Heaters							
750W/1000W	208/240V AC	14 ½ in	3 ½ in	8 ¼ in	Cadet	UC102B	**31LK47**
750W/1500W	120V AC	14 ¼ in	3 ½ in	8 ⅞ in	Dayton	2YV10	**2YV10**
1000W	120V AC	14 ½ in	3 ½ in	8 ¼ in	Cadet	UC101B	**31LK48**

Description	For Use With	Brand	Mfr. Model	Item No.
Mechanical Thermostats				
120/240V AC, 45° to 85°F, Single Pole	2YV10	Dayton	2YV12	**2YV12**
120/208/240V AC, 40° to 85°F, Single Pole	Mfr. No. UC101B, UC102B	Cadet	UCT1B	**31LK49**
120/208/240V AC, 40° to 85°F, Double Pole	Mfr. No. UC101B, UC102B	Cadet	UCT2B	**31LK50**

14C471

Accessories For Electric Floor Heaters

Description	Mfr. Model	Item No.
InstAlarm Monitor, Includes 9V Battery, Instructions, Screw Driver	INSTALRM	**14C470**
TT Deluxe Install Kit, ⅜ in Plastic Trowel, InstAlarm Monitor, Multimeter, Ultra Light Kneepads	IK-TAMK	**14C471**
Plastic Trowel, ⅜ in Square Notch	TRWL3838	**20UG51**
Heavy Duty Plastic Trowel, ½ in X ⅜ in Notch	TRWL3812	**20UG52**

Residential
31LK63

Commercial
Conventional Top
783RL9

Commercial
Slope Top
3UH08

Receptacle
3UG89

Standard Electric Baseboard Heaters

- Overheat protection

Work by convection and have a heating element encased in a metal sheath surrounded by aluminum fins to transfer heat. Install along baseboards to warm rooms and small spaces in buildings such as multifamily housing or offices. Thermostat required (sold separately).

Residential Grade, Conventional Top—Multiple knockouts at each end. Includes wiring pigtails.

Commercial Grade, Conventional Top—Feature multiple knockouts at each end, wiring pigtails, and installation mounting guides. 3KB39 adds built-in cable clamps.

Commercial Grade, Slope Top—45° slope-top discourages use of heater as a shelf or step. Mount directly to the floor. Carpeting can be brought up to the front of the unit.

Wattage Output	Voltage	Housing Color	Overall Length	Overall Height	Overall Depth	Mounting Type	Brand	Mfr. Model	Item No.
Residential Grade, Conventional Top									
150W/563W	208/240V AC	White	36 in	6 ¾ in	2 ½ in	Wall	Cadet	3F750W	**31LK58**
262W/350W	208/240V AC	White	24 in	6 ¾ in	2 ½ in	Wall	Cadet	2F350W	**31LK56**
375W/500W	208/240V AC	White	30 in	6 ¾ in	2 ½ in	Wall	Cadet	2F500W	**31LK57**
376W/500W	208/240V AC	White	30 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG82	**3UG82**
500W	120V AC	White	30 in	6 ¾ in	2 ½ in	Floor	Dayton	3UG76	**3UG76**
500W	120V AC	White	30 in	6 ¾ in	2 ½ in	Wall	Cadet	2F500-1W	**31LK63**
564W/750W	208/240V AC	White	36 in	6 ¾ in	2 ½ in	Floor	Dayton	3UG83	**3UG83**
750W	120V AC	White	36 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG77	**3UG77**
750W/1000W	208/240V AC	White	48 in	6 ¾ in	2 ½ in	Wall	Cadet	4F1000W	**31LK59**
752W/1000W	208/240V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG84	**3UG84**
937W/1250W	208/240V AC	White	60 in	6 ¾ in	2 ½ in	Wall	Cadet	5F1250W	**31LK60**
940W/1250W	208/240V AC	White	60 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG85	**3UG85**
1000W	120V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG78	**3UG78**
1000W	120V AC	White	48 in	6 ¾ in	2 ½ in	Wall	Cadet	4F1000-1W	**31LK64**
1125W/1500W	208/240V AC	White	72 in	6 ¾ in	2 ½ in	Wall	Cadet	6F1500W	**31LK61**
1128W/1500W	208/240V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG86	**3UG86**
1250W	120V AC	White	60 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG79	**3UG79**
1500W	120V AC	White	72 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG80	**3UG80**
1500W	120V AC	White	72 in	6 ¾ in	2 ½ in	Wall	Cadet	6F1500-1W	**31LK65**
1500W/2000W	208/240V AC	White	96 in	6 ¾ in	2 ½ in	Wall	Cadet	8F2000W	**31LK62**
1504W/2000W	208/240V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3UG87	**3UG87**
1800W/2500W	208/240V AC	White	96 in	6 ¾ in	2 ⅞ in	Floor	Dayton	4TM76	**4TM76**
Commercial Grade, Conventional Top									
750 W	208 V AC	White	3 ft	8 ⅜ in	2 15/16 in	Floor	Qmark	QMKC2503W	**783RL9**
1000W	208V AC	White	48 in	6 ¾ in	2 ⅞ in	Floor	Dayton	3KB39	**3KB39**
Commercial Grade, Slope Top									
375W/500W	208/240V AC	Beige	28 in	10 in	3 ¼ in	Floor	Qmark	3UH08	**3UH08**
750W/1000W	208/240V AC	Beige	48 in	10 in	3 ¼ in	Floor	Qmark	3UH10	**3UH10**
1125W/1500W	208/240V AC	Beige	72 in	10 in	3 ¼ in	Floor	Qmark	3UH11	**3UH11**
1500W/2000W	208/240V AC	Beige	96 in	10 in	3 ¼ in	Floor	Qmark	3UH12	**3UH12**
1875W/2500W	208/240V AC	Beige	120 in	10 in	3 ¼ in	Floor	Qmark	3UH13	**3UH13**

Item	Voltage	Color	For Use With	Brand	Item No.
Accessories					
Receptacle, Duplex	120V AC	White	Residential Baseboard Heaters	Dayton	**3UG89**
Inside Corner Section	—	White	Residential Baseboard Heaters	Dayton	**3UG88**

3UG30

Oil-Filled Electric Baseboard Heaters

- White housing
- Floor mount
- Overheat protection

Oil-filled heating element minimizes temperature swings and provides residual heat even after the unit is shut off. Units use convection heating. Install along baseboards to warm rooms and small spaces in buildings such as multifamily housing or offices. Hardwired and require a thermostat to control heat settings, see 3UG32 (sold separately).

Wattage Output	Voltage	Overall Length	Overall Height	Overall Depth	Item No.
375W/500W	208/240V AC	28 in	8 ⅜ in	3 in	**3UG30**
500W	120V AC	28 in	8 ⅜ in	3 in	**3EMZ8**
562W/750W	208/240V AC	34 in	8 ⅜ in	3 in	**3UG31**
750W	120V AC	34 in	8 ⅜ in	3 in	**3EMZ9**
750W/1000W	208/240V AC	46 in	8 ⅜ in	3 in	**3UG27**
938W/1250W	208/240V AC	58 in	8 ⅜ in	3 in	**3ENA4**
1000W	120V AC	46 in	8 ⅜ in	3 in	**3ENA1**
1125W/1500W	208/240V AC	70 in	8 ⅜ in	3 in	**3UG28**
1250W	120V AC	58 in	8 ⅜ in	3 in	**3ENA2**
1500W	120V AC	70 in	8 ⅜ in	3 in	**3ENA3**
1500W/2000W	208/240V AC	94 in	8 ⅜ in	3 in	**3UG29**

31LK66

3UG32

19RA10

Thermostats for Electric Baseboard Heaters

Control the temperature of standard and oil-filled electric baseboard heaters.

Thermostat Control Range	Voltage	No. of Poles	For Use With	Brand	Mfr. Model	Item No.
Unit Mount						
40° to 85°F	120/208/240V AC	1	Baseboard Heaters	Cadet	BTF1W	**31LK66**
	120/208/240V AC	2	Baseboard Heaters	Cadet	BTF2W	**31LK67**
	120/208/240V AC	2	Hydronic Baseboard Heaters	Cadet	EBKNW	**31LK40**
40° to 100°F	120/208/240/277V AC	1	Residential Baseboard Heaters	Dayton	3UG90	**3UG90**
	120/208/240/277V AC	2	Hydronic Baseboard Heaters	Dayton	3UG32	**3UG32**
	120/208/240/277V AC	2	Residential Baseboard Heaters	Dayton	3UG91	**3UG91**
	120/277V AC	1	2500 Series Baseboard Heater	Qmark	TA1AW	**19RA18**
	120/277V AC	2	2500 Series Baseboard Heater	Qmark	TA2AW	**19RA10**
60° to 120°F	120/208/240V AC	2	Slope Top Baseboard Heaters	Qmark	3UH14	**3UH14**
Wall Mount						
50° to 80°F	120/208/240/277V AC	1	Baseboard Heaters	Dayton	3UH07	**3UH07**
55° to 85°F	120/208/240/277V AC	2	Baseboard Heaters	Dayton	3UF74	**3UF74**

CADET INVITING WARMTH · Dayton

Compact Recessed Electric Wall Heaters

- Overheat protection
- Mechanical controls

Heat areas with limited installation or mounting space, like restrooms, bedrooms, hallways, or offices. Built-in thermostat. Find more wall heaters on Grainger.com.

Wattage Output	Voltage	Phase	Grille Color	Rough In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Heaters									
Recessed Mounting									
750W/1,000W	208/240V AC	1	White	10 ⅛ in	8 in	4 in	Cadet	CSC102TW	**31LK51**
1,000W	120/240V AC	1	White	10 ⅛ in	8 in	4 in	Cadet	CBC103TW	**31LK41**
	120V AC	1	White	10 ⅛ in	8 in	4 in	Cadet	CSC101TW	**31LK54**
	120V AC	1	White	11 ¼ in	9 ½ in	3 ¾ in	Dayton	3ENC7	**3ENC7**
1,000W/1,500W/1,600W	120/208/240V AC	1 or 3	White	10 ⅛ in	8 in	4 in	Cadet	CEC163TW	**31LK42**
1,125W/1,500W	208/240V AC	1	White	10 ⅛ in	8 in	4 in	Cadet	CSC152TW	**31LK52**
1,500W/2,000W	208/240V AC	1	White	10 ⅛ in	8 in	4 in	Cadet	CSC202TW	**31LK53**
	240/277V AC	1	White	11 ¼ in	9 ½ in	3 ¾ in	Dayton	3ENC9	**3ENC9**
2,000W	208V AC	1	White	11 ¼ in	9 ¼ in	3 ¾ in	Dayton	3ENC8	**3ENC8**
Surface and Recessed Mounting									
750W/1,000W	208/240V AC	1	Gray	12 ⅝ in	9 3/16 in	2 ½ in	Dayton	5ZK66	**5ZK66**
750W/1,500W	120V AC	1	White	11 ¼ in	9 ¼ in	3 ¾ in	Dayton	2HAD6	**2HAD6**
1,000W	120V AC	1	Bronze	11 in	9 3/16 in	3 ¾ in	Dayton	2HAC4	**2HAC4**
	120V AC	1	Gray	12 ½ in	9 ¼ in	2 ½ in	Dayton	5ZK64	**5ZK64**
1,000W/2,000W	208V AC	1	White	11 in	9 3/16 in	3 ¾ in	Dayton	2HAD1	**2HAD1**
1,000W/2,000W, 750W/1,500W	208/240V AC	1	White	11 ¼ in	9 ½ in	3 ¾ in	Dayton	3WU90	**3WU90**
1,125W/1,500W	240/277V AC	1	White	11 in	9 3/16 in	3 ¾ in	Dayton	2HAC9	**2HAC9**
1,500W	120V AC	1	Bronze	11 ¼ in	9 ¼ in	3 ¾ in	Dayton	2HAC5	**2HAC5**
	120V AC	1	White	12 ½ in	9 ¼ in	2 ½ in	Dayton	5ZK68	**5ZK68**
1,500W/2,000W	208/240V AC	1	Bronze	11 in	9 3/16 in	3 ¾ in	Dayton	2HAC7	**2HAC7**
	208/240V AC	1	White	12 ⅝ in	9 3/16 in	2 ½ in	Dayton	5ZK70	**5ZK70**
	240/277V AC	1	Bronze	11 ¼ in	9 ¼ in	3 ¾ in	Dayton	2HAC8	**2HAC8**
1,800W	120V AC	1	Bronze	11 in	9 3/16 in	3 ¾ in	Dayton	2HAC6	**2HAC6**

Item	For Use With	Brand	Item No.
Accessories			
Mounting Frame	2HAC4, 2HAC5, 2HAC6, 2HAC7, 2HAC8, 2HAC9, 2HAD1	Dayton	**2HAD2**
		Dayton	**2HAD3**
		Dayton	**2HAD4**
	3ENC7, 3ENC8, 3ENC9	Dayton	**4KA69**
	5ZK64, 5ZK66, 5ZK68, 5ZK70	Dayton	**5ZK72**
Retrofit Kit	447V30, 447V31, 447V32	Dayton	**470M93**

31LK51

2HAC4

5ZK68

Dayton · QMARK · BROAN

Large Recessed Electric Wall Heaters

- Overheat protection
- Mechanical controls

Fan-forced heaters for areas like offices, reception rooms, family rooms, and other residential and small commercial spaces. Built-in thermostat. Find more wall heaters on Grainger.com.

Wattage Output	Voltage	Phase	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Tamper-Resistant Unit-Mounted Thermostat									
Recessed Mounting									
1,500W/3,000W	277V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	3END5	**3END5**
Surface and Recessed Mounting									
1,500W	120V AC	1	Bronze	18 ¼ in	14 ⅜ in	3 ⅞ in	Dayton	2HAD9	**2HAD9**
1,500W/3,000W, 2,000W/4,000W	208/240V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4404F	**39K908**
	208/240V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	5E184	**5E184**
	208/240V AC	1	White	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4404FNW	**39K907**
	208/240V AC	1	White	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	5E185	**5E185**
	240/277V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4407F	**39K906**
	240/277V AC	1	Bronze	18 ¼ in	14 ⅜ in	3 ⅞ in	Dayton	5E186	**5E186**
	240/277V AC	1	White	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4407FNW	**39K909**
	240/277V AC	1	White	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	5E187	**5E187**
1,800W	120V AC	1	Bronze	18 ¼ in	14 ⅜ in	3 ⅞ in	Dayton	2HAE1	**2HAE1**
2,000W/4,000W	208V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4408F	**39K905**
	208V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	5E182	**5E182**
	208V AC	1	White	18 ¼ in	14 ¼ in	3 ⅞ in	Qmark	AWH4408FNW	**39K904**
	208V AC	1	White	18 ¼ in	14 ⅜ in	3 ⅞ in	Dayton	5E183	**5E183**
	208V AC	3	Bronze	18 ¼ in	14 ⅜ in	3 ⅞ in	Dayton	3END6	**3END6**
	277V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	3END8	**3END8**
3,600W/4,800W	208/240V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	3END7	**3END7**
4,800W	208V AC	1	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	3END9	**3END9**
	208V AC	3	Bronze	18 ¼ in	14 ¼ in	3 ⅞ in	Dayton	3ENE1	**3ENE1**
Unit-Mounted Thermostat									
Recessed Mounting									
1,000W/2,000W, 750W/1,500W	208/240V AC	1	White	18 in	14 ¼ in	3 ¾ in	Broan	192	**5EFP9**
1,125W/2,250W, 1,500W/3,000W	208/240V AC	1	White	18 in	14 ¼ in	3 ¾ in	Broan	194	**5EFR0**
1,500W/2,000W	208/240V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3END2	**3END2**
1,500W/3,000W, 2,000W/4,000W	208/240V AC	1	White	20 in	16 ¼ in	4 ¼ in	Broan	198	**5EFR1**
2,000W/4,000W	208V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Dayton	3END1	**3END1**
3,600W/4,800W	208/240V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Dayton	3UF62	**3UF62**
Surface and Recessed Mounting									
1,500W	120V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	2HAD7	**2HAD7**
	120V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	2HAD5	**2HAD5**
1,500W/3,000W	240V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UG55	**3UG55**
	277V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UF59	**3UF59**
	277V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Qmark	CWH3307F	**39K916**
1,500W/3,000W, 2,000W/4,000W	208/240V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UF60	**3UF60**
	208/240V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UG56	**3UG56**
	240/277V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UF61	**3UF61**
1,800W	120V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	2HAD8	**2HAD8**
1,800W/3,600W, 2,400W/4,800W	208/240V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UG57	**3UG57**
3,000W/4,000W	208/240V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Qmark	CWH3404F	**39K912**
	240/277V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Qmark	CWH3407F	**39K914**
3,600W/4,800W	208/240V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Qmark	CWH3504F	**39K913**
	240/277V AC	1	White	18 ¼ in	14 ⅝ in	3 ⅞ in	Dayton	3UF63	**3UF63**
	240/277V AC	1	White	18 ¼ in	14 5/16 in	3 ⅞ in	Qmark	CWH3507F	**39K915**

3END5

5EFP9

39K913

6PPC8

13R108

Qmark Dayton

Large Programmable Recessed Electric Wall Heaters

- Overheat protection
- Tamper-resistant
- Touchscreen interface

5/2-day programmable thermostat allows users to schedule or hold temperature. Units use fan-forced air to heat residential and light commercial spaces. Included remote control allows users to make temperature adjustments from anywhere in the room.

Wattage Output	Voltage	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Brand	Mfr. Model	Item No.
Recessed Mounting								
200W/1,500W	120V AC	Gray, White	17 ⅜ in	12 in	3 ¾ in	Qmark	HT1502SS	**6PPC8**
250W/2,000W	240V AC	Gray, White	17 ⅜ in	12 in	3 ¾ in	Qmark	HT2024SS	**6PPC7**
4,000W	208V AC	Gray	18 ¼ in	14 ⅜ in	3 ½ in	Dayton	400C60	**400C60**
Surface and Recessed Mounting								
900W/1,800W	120V AC	Gray	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR1802AL	**29HZ95**
	120V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR1802	**29HZ87**
1,800W/4,000W	208V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSHO4008	**13R108**
	240V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSHO4004	**13R109**
	277V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSHO4007	**13R110**
1,800W/4,800W	208V AC	Gray	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4808AL	**29HZ92**
	208V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4808	**29HZ84**
	240V AC	Gray	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4804AL	**29HZ93**
	240V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4804	**29HZ85**
	277V AC	Gray	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4807AL	**29HZ94**
	277V AC	White	18 3/16 in	14 ¼ in	3 ⅞ in	Qmark	SSAR4807	**29HZ86**
4,000W	240V AC	White	18 ¼ in	14 ⅜ in	3 ½ in	Dayton	400C58	**400C58**
	277V AC	Gray	18 ¼ in	14 ⅜ in	3 ½ in	Dayton	400C59	**400C59**

52YX35

Markel Products Company

Large Recessed Electric Wall Heaters with Occupancy Sensor

- Overheat protection
- Programmable
- Tamper-resistant
- Bronze grille color

Occupancy sensor turns up the thermostat to the desired temperature when it detects movement. If no movement is detected, it will set the thermostat back to a preset level to save energy costs. These fan-forced heaters are used in residential and small commercial spaces. Units can be recess- or surface-mounted.

Wattage Output	Voltage	Phase	Rough-In Height	Rough-In Width	Rough-In Depth	Mfr. Model	Item No.
Heaters							
4,000W	208V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	F3454SD-GB	**52YX35**
		3	23 1/16 in	14 ¼ in	4 ¼ in	J3454SD-GB	**52YX38**
	240V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	H3454SD-GB	**52YX36**
		3	23 1/16 in	14 ¼ in	4 ¼ in	K3454SD-GB	**52YX39**
	277V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	G3454SD-GB	**52YX37**
5,000W	208V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	F3455SD-GB	**52YX40**
		3	23 1/16 in	14 ¼ in	4 ¼ in	J3455SD-GB	**52YX42**
	240V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	H3455SD-GB	**52YX41**
		3	23 1/16 in	14 ¼ in	4 ¼ in	K3455SD-GB	**52YX43**
	277V AC	1	23 1/16 in	14 ¼ in	4 ¼ in	G3455SD-GB	**52YX44**

Item	For Use With	Mfr. Model	Item No.
Accessory			
Mounting Frame	F3455SD-GB, G3454SD-GB, G3455SD-GB, H3454SD-GB, H3455SD-GB, J3454SD-GB, J3455SD-GB, K3454SD-GB, K3455SD-GB, Mfr. No F3454SD-GB	3450EX34	**52YX45**

Markel Products Company Dayton Broan Qmark

Mounting Brackets & Frames for Large Recessed Electric Wall Heaters

Find additional accessories on Grainger.com.

5E188 3UF66

Item	For Use With	Color	Brand	Mfr. Model	Item No.
Mounting Bracket	49ZZ94	Bronze	Markel Products	A5105	**52TW94**
	52AT70	Bronze	Markel Products	A5120	**52AT82**
Mounting Frame	2HAD5, 2HAD8, 3UF59, 3UF60, 3UF61, 3UF62, 3UF63, 3UG55, 3UG56	White	Dayton	3UF66	**3UF66**
	2HAD9, 2HAE1, 5E182, 5E184, 5E186	Bronze	Dayton	5E188	**5E188**
	3UF59 to 3UF63	White	Dayton	3UF64	**3UF64**
	3UF59 to 3UF63	White	Dayton	3UF65	**3UF65**
	5E183, 5E185, 5E187	White	Dayton	5E189	**5E189**
	Mfr. No. SSHO4008	White	Qmark	HTWHSM	**18F256**
Mounting Kit and Brackets	Mfr. No. Broan Models 192, 194 and 198	White	Broan	85	**5EFR8**
Security Front Cover	3UF59, 3UF60, 3UF61, 3UF62, 3UF63, 3UG55, 3UG56 , 3UG57	White	Dayton	3UG58	**3UG58**
Semi-Recessed Frame	39K912, 39K913, 39K914, 39K915, 39K916	White	Qmark	CWH3S1	**39K918**
	39K912, 39K913, 39K914, 39K915, 39K916	White	Qmark	CWH3S2	**39K919**
Surface Mounting Frame	19PN70, 19PN78, 19PN79, 19PN80, 19PN86, 19PP13, 19PP51, 19PP61, 2HAD9, 2HAE1, 39K904, 39K905, 39K906, 39K907, 39K908, 39K909, 3END5, 3END6, 3END7, 3END8, 3END9, 3ENE1	Bronze	Qmark	AWHSM	**39K910**
	39K904, 39K907, 39K909	White	Qmark	AWHSMNW	**39K911**
	39K912, 39K913, 39K914, 39K915, 39K916	White	Qmark	CWH3SM	**39K917**
	HF3315T2RPW, HF3316T2RPW, Mfr. No. E3313TRPW	White	Markel Products	3310EX33WR	**31TR50**
	HT1502SS, Mfr. No. HT2024SS	Black	Qmark	SMHTSSBL	**18F259**
	HT1502SS, Mfr. No. HT2024SS	White	Qmark	SMHTSSNW	**18F260**
	Mfr. No. E3323TD-RP To G3327TD-RP	Brown	Markel Products	3320EX33	**31TR58**

5EFP6

3UG15

Broan Cadet Inviting Warmth Dayton

Register-Style Recessed Electric Wall Heaters

- Overheat protection

Have a grille design similar to most central air vents to blend into the room. These fan-forced units are compact and heat areas with limited space. They come with a built-in thermostat.

Wattage Output	Voltage	Grille Color	Rough-In Height	Rough-In Width	Rough-In Depth	Grille Height	Grille Width	Grille Depth	Brand	Mfr. Model	Item No.
Heaters											
Recessed Mounting											
500W/750W/1,000W	208/240V AC	White	7 ¾ in	10 ¼ in	3 ¾ in	9 ¼ in	12 in	½ in	Broan	128	**5EFR4**
525W/675W/1,200W, 700W/900W/1,600W	208/240V AC	White	6 in	12 ¾ in	4 in	7 ⅜ in	14 in	1 in	Cadet	RMC162W	**31LK55**
750W/1,125W/1,500W	120/208/240V AC	White	7 ¾ in	10 ¼ in	3 ¾ in	9 ¼ in	14 ¼ in	⅞ in	Broan	120	**5EFR2**
1,000W/500W/750W/1,000W	120/208/240V AC	White	7 ¾ in	10 ¼ in	3 ¾ in	9 ¼ in	12 in	½ in	Broan	170	**5EFP6**
1,000W/2,000W, 750W/1,500W	208/240V AC	White	18 in	14 ¼ in	3 ¾ in	9 ¼ in	12 in	½ in	Broan	178	**5EFP8**
1125/1500, 750W/1,500W	120/208/240V AC	White	7 ¾ in	10 ¼ in	3 ¾ in	9 ¼ in	12 in	½ in	Broan	174	**5EFP7**
1,125 W/1,500 W, 1500 W/750 W	120/208/240V AC	White	7 ¾ in	10 ¼ in	3 ¾ in	9 ¼ in	14 ¼ in	⅞ in	Broan	124	**5EFR3**
Surface and Recessed Mounting											
375W/750W/1,125W/1,500W	120V AC	White	6 ⅝ in	14 ⅜ in	4 ⅜ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG15	**3UG15**
	120V AC	White	6 ⅝ in	14 ⅜ in	4 ⅜ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG16	**3UG16**
375W/750W/1,125W/1,500W, 500W/1,000W/1,500W/2,000W	208/240V AC	White	6 ¾ in	14 in	4 ½ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG17	**3UG17**
	208/240V AC	White	6 ¾ in	14 in	4 ½ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG18	**3UG18** *
450W/900W/1,350W/1,800W, 600W/1,200W/1,800W/2,400W	208/240V AC	White	6 ¾ in	14 in	4 ½ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG19	**3UG19**
	208/240V AC	White	6 ¾ in	14 in	4 ½ in	7 ¾ in	16 ⅞ in	¾ in	Dayton	3UG20	**3UG20** †
2,250W/3,000W	208/240V AC	Black	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CST302	**49XN31**
	208/240V AC	Black	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CST302T	**49XN33**
	240V AC	White	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CSTC302TW	**49XN29**
3,000W/4,000W	208/240V AC	Black	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CST402	**49XN32**
	240V AC	Black	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CST402T	**49XN34**
	240V AC	White	10 ⅛ in	14 ½ in	4 in	12 in	16 ¼ in	1 in	Cadet	CSTC402TW	**49XN30**

Item	For Use With	Brand	Item No.
Accessories			
Heater Wall Adapter	CST Series Wall Heaters	Cadet	**49XN37**
Heater Wall Can	CST Series Wall Heaters	Cadet	**49XN36**
Heater Wall Grille	CST Series Wall Heaters	Cadet	**49XN35**
Mounting Kit and Brackets	Mfr. No. Broan Models 170 Thru 178	Broan	**5EFR7**
Line Volt Mechanical Tstat	Register Heaters	Broan	**5EFR9**

** Single pole. † Double pole.*

Wattage Output	Voltage	Phase	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
1250W	120V AC	1	Gray	2 11/16 in	11 in	2 3/4 in	Broan	157	**5EFR6**
2000W/3000W/4000W	208V AC	1 or 3	White	5 3/4 in	16 7/16 in	5 3/4 in	Dayton	2YU40	**2YU40**
	208V AC	1 or 3	White	9 11/16 in	16 7/16 in	5 3/4 in	Qmark	CDF548SE	**39K889**
	277V AC	1	Gray	5 3/4 in	16 7/16 in	5 3/4 in	Dayton	2YU38	**2YU38**
	277V AC	1	White	10 1/2 in	16 7/16 in	5 3/4 in	Qmark	CDF547SE	**39K899**
2500W/3800W/5000W	208V AC	1 or 3	White	5 3/4 in	16 7/16 in	5 3/4 in	Dayton	2YU44	**2YU44**
	208V AC	1 or 3	White	10 1/2 in	16 7/16 in	5 3/4 in	Qmark	CDF558SE	**39K891**
	240V AC	1 or 3	White	5 3/4 in	16 7/16 in	5 3/4 in	Dayton	2YU35	**2YU35**
	240V AC	1 or 3	White	10 1/2 in	16 7/16 in	5 3/4 in	Qmark	CDF552SE	**39K895**
	277V AC	1	White	5 3/4 in	16 7/16 in	5 3/4 in	Dayton	2YU42	**2YU42**
	277V AC	1	White	10 1/2 in	16 7/16 in	5 3/4 in	Qmark	CDF557SE	**39K896**

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Disconnect Switch	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, and 2YU42	Dayton	2YU45	**2YU45**
	CDF Series Heaters	Qmark	CDFDS	**39K897**
Electric Wall & Ceiling Heater Thermostat	2YU35-2YU43	Dayton	2YU46	**2YU46**
	2YU35-2YU43	Dayton	2YU89	**2YU89**
	CDF Series Heaters	Qmark	CDFT	**39K894**
Transformer	2YU35, 2YU36, 2YU39, 2YU40, 2YU43, 2YU44	Dayton	2YU48	**2YU48**
	2YU37, 2YU38, 2YU41, 2YU42	Dayton	2YU49	**2YU49**
	CDF Series Heaters	Qmark	CDFTR7	**39K902**
Transformer Kit	CDF Series Heaters	Qmark	CDFTR4	**39K898**
Trim Kit	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, 2YU42, 2YU43	Dayton	2YU47	**2YU47**
	CDF Series Heaters	Qmark	CDFTK	**39K901**

5EFR6

2YU40

39K889

BROAN Dayton QMARK

Surface-Mount Electric Ceiling Heaters

Position out of the way to free up limited wall and floor space. Units use fan-forced air to provide spot and supplemental heating to spaces like offices, conference rooms, lobbies, and bathrooms. Automatic thermal cutout shuts off the heater if it overheats and turns it back on when the temperature returns to normal. Thermostat is required.

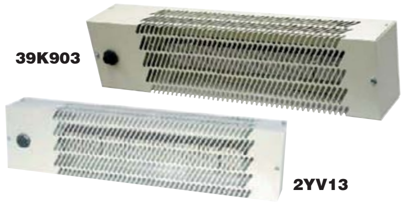
Surface-Mount Electric Wall Heaters

QMARK Dayton

- Mechanical selector dial

Position near the floor, allowing heat to rise upward to warm the area. Units use convection heating to quietly provide spot and supplemental heating to small spaces.

Wattage Output	Voltage	Housing Color	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
500W/375W/500W	120/208/240V AC	Beige	5 in	21 in	3 1/2 in	Qmark	WHT500	**39K903**
	120V AC/208V AC/240V AC	Beige	5 in	21 in	3 1/2 in	Dayton	2YV13	**2YV13**



39K903

2YV13

Surface-Mount Electric Cove Heaters

Dayton

Position high on the wall near the ceiling to save space and avoid interference with furniture. Units use radiant heating to quietly transfer heat to people and objects in small spaces. Units warm people quicker than other than other types of heaters. Used with remote line voltage thermostats.

Wattage Output	Voltage	Housing Color	Overall Height	Overall Width	Overall Depth	Item No.
600 W	240V AC	White	4 3/16 in	47 in	3 in	**3UH04**
1,050 W	240V AC	White	4 3/16 in	83 in	3 in	**3UH03**

3UH03

Surface-Mount Electric Cabinet Wall Heaters

QMARK

- Field convertible with voltage
- 1 or 3 phase

Units are larger than other wall heaters and have a greater capacity to produce warm air in a shorter amount of time. Provide fan-forced heating to spaces like school hallways, churches, and transportation terminals. Can be universally mounted or recess out of the way with required trim kit. Built-in thermostat can be removed and converted to wall-mount.

Wattage Output	Voltage	Phase	Housing Color	Air Flow	Overall Width	Overall Height	Overall Depth	Mfr. Model	Item No.	
5kW	208 V AC	3	White	250 cfm	35 in	26 3/8 in	9 3/4 in	CUS93505203FFWD	**785TH9**	*
	240 V AC	3	White	250 cfm	35 in	26 3/8 in	9 3/4 in	CUS93505243FFWD	**785TJ2**	*
	480 V AC	3	White	250 cfm	35 in	26 3/8 in	9 3/4 in	CUS93505483FFWD	**785TJ0**	*
10 kW	208 V AC	3	White	500 cfm	45 in	26 3/8 in	9 3/4 in	CUS94510203FFWD	**785TJ1**	*
	240 V AC	3	White	500 cfm	45 in	26 3/8 in	9 3/4 in	CUS94510243FFWD	**785TJ3**	*
	480 V AC	3	White	500 cfm	45 in	26 3/8 in	9 3/4 in	CUS94510483FFWD	**785TH8**	*

***** *208V or 240V 3-phase field-convertible to 1-phase.*

785TH8

Wattage Output	Voltage	Phase	Housing Color	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
2000W/3000W/4000W	208V AC	1 or 3	Gray	23 3/4 in	23 3/4 in	7 in	Dayton	2YU39	**2YU39**
	208V AC	1 or 3	White	23 3/4 in	23 3/4 in	7 in	Qmark	CDF548RE	**39K887**
	277V AC	1	Gray	23 3/4 in	23 3/4 in	7 in	Dayton	2YU37	**2YU37**
	277V AC	1	White	23 3/4 in	23 3/4 in	7 in	Qmark	CDF547RE	**39K893**
2500W/3800W/5000W	208V AC	1 or 3	Gray	23 3/4 in	23 3/4 in	7 in	Dayton	2YU43	**2YU43**
	208V AC	1 or 3	White	23 3/4 in	23 3/4 in	7 in	Qmark	CDF558RE	**39K888**
	240V AC	1 or 3	White	23 3/4 in	23 3/4 in	7 in	Qmark	CDF552RE	**39K892**
	240V AC	1 or 3	White	23 3/4 in	23 3/4 in	7 in	Dayton	2YU36	**2YU36**
	277V AC	1	Gray	23 3/4 in	23 3/4 in	7 in	Dayton	2YU41	**2YU41**
	277V AC	1	White	23 3/4 in	23 3/4 in	7 in	Qmark	CDF557RE	**39K890**

Item	For Use With	Brand	Mfr. Model	Item No.
Accessories				
Disconnect Switch	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, and 2YU42	Dayton	2YU45	**2YU45**
	CDF Series Heaters	Qmark	CDFDS	**39K897**
Electric Wall & Ceiling Heater Thermostat	2YU35-2YU43	Dayton	2YU46	**2YU46**
	2YU35-2YU43	Dayton	2YU89	**2YU89**
	CDF Series Heaters	Qmark	CDFT	**39K894**
Transformer	2YU35, 2YU36, 2YU39, 2YU40, 2YU43, 2YU44	Dayton	2YU48	**2YU48**
	2YU37, 2YU38, 2YU41, 2YU42	Dayton	2YU49	**2YU49**
	CDF Series Heaters	Qmark	CDFTR7	**39K902**
Transformer Kit	CDF Series Heaters	Qmark	CDFTR4	**39K898**
Trim Kit	2YU35, 2YU36, 2YU37, 2YU38, 2YU39, 2YU40, 2YU41, 2YU42, 2YU43	Dayton	2YU47	**2YU47**
	CDF Series Heaters	Qmark	CDFTK	**39K901**

2YU39

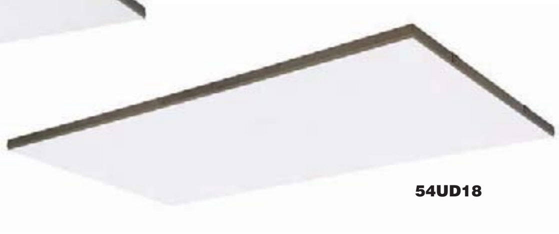
39K887

Dayton QMARK

Recessed & Drop-In Panel Fan-Forced Electric Ceiling Heaters

Can be recess-mounted or installed in 2 ft. x 2 ft. drop ceilings. Can also be mounted in permanent ceiling applications with a required trim ring. Units use fan-forced air to provide spot heating in small areas with limited floor and wall space. Thermostat required.

54UD14



54UD18

Dayton QMARK

Drop-In Panel Radiant Electric Ceiling Heaters

Install in 2 ft. x 2 ft. or 2 ft. x 4 ft. drop ceilings. Include built-in T-bar suspension clips for mounting. Can also be recess- or surface-mounted on hard ceiling surfaces with a required mounting frame. Units use radiant heating to quietly spot heat small spaces. Remote wall-mounted line voltage thermostat required.

Wattage Output	Voltage	Mounting Type	Housing Color	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
375W	120V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD14	**54UD14**
	120V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP371F	**54UD22**
	208V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD15	**54UD15**
	208V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP378F	**54UD23**
	240V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD16	**54UD16**
	240V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP372F	**54UD24**
	277V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Dayton	54UD17	**54UD17**
	277V AC	Recessed, Surface	White	24 in	24 in	5 ¾ in, 7 in	Qmark	CP377F	**54UD25**
750W	120V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD18	**54UD18**
	120V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP751F	**54UD26**
	208V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD19	**54UD19**
	208V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP758F	**54UD27**
	240V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD20	**54UD20**
	240V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP752F	**54UD28**
	277V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Dayton	54UD21	**54UD21**
	277V AC	Recessed, Surface	White	48 in	24 in	5 ¾ in, 7 in	Qmark	CP757F	**54UD29**

Description	For Use With	Color	Brand	Mfr. Model	Item No.
Mounting Frames					
Recessed, 24 in H x 24 in W	54UD14, 54UD15, 54UD16, 54UD17	White	Dayton	2YU96	**2YU96**
	54UD22, 54UD23, 54UD24, 54UD25	White	Qmark	QRF2424	**39K931**
Recessed, 48 in H x 24 in W	54UD18, 54UD19, 54UD20, 54UD21	White	Dayton	2YU97	**2YU97**
	54UD26, 54UD27, 54UD28, 54UD29	White	Qmark	QRF2448	**39K929**
Surface, 24 in H x 24 in W	54UD14, 54UD15, 54UD16, 54UD17	White	Dayton	2YU98	**2YU98**
	54UD22, 54UD23, 54UD24, 54UD25	White	Qmark	QSF2424	**39K930**
Surface, 48 in H x 24 in W	54UD18, 54UD19, 54UD20, 54UD21	Gray	Dayton	2YU99	**2YU99**
	54UD26, 54UD27, 54UD28, 54UD29	White	Qmark	QSF2448	**39K928**

2HCX4

56FD65

2KMN4

Dayton Markel Products Company

General Purpose Electric Plenum Heaters

- Fan-forced
- Disconnect switch
- Mechanical Selector Dial, Thermostat

Can be installed for free-air discharge or with a duct system to supplement central heating in hard-to-access or concealed areas, such as between a finished and drop ceiling or a plenum space. Can be rotated on their axis, but must be suspended horizontally and independently supported. Cannot be mounted vertically. Mounting bracket included.

Wattage Output	Voltage	Air Flow	Overall Height	Overall Width	Overall Depth	Brand	Item No.
1 Phase Heaters							
3kW	208V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX3**
3kW	240V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX4**
3kW	277V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX5**
5kW	208/240V AC	275 cfm	14 ½ in	14 ⅜ in	19 ⅜ in	Markel Products	**56FD65**
5kW	208V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX8**
5kW	240V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX9**
5kW	277V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCY1**
7.5kW	208V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY5**
7.5kW	240V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY6**
7.5kW	277V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY7**
10kW	240V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ2**
10kW	277V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ3**
3 Phase Heaters							
3kW	208V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCX6**
5kW	208V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCY2**
5kW	240V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCY3**
5kW	480V AC	350/400 cfm	12 ½ in	24 in	19 ½ in	Dayton	**2HCY4**
7.5kW	208V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY8**
7.5kW	240V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCY9**
7.5kW	480V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ1**
10kW	208V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ4**
10kW	240V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ5**
10kW	480V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ6**
15kW	208V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ7**
15kW	240V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ8**
15kW	480V AC	850/1,000 cfm	17 ⅞ in	35 ⅜ in	18 in	Dayton	**2HCZ9**

Item	Fits 3 to 5 kW				Fits 7.5 to 15 kW			
	H	W	D	Item No.	H	W	D	Item No.
Accessories								
Adjustable Louver Kit	12½ in	14 in	1 in	**2KMN8**	—	—	—	—
Disposable Filter	10 in	12 in	1 in	**3TKC3**	12 in	16 in	1 in	**3TKC7**
Disposable Filter	12½ in	14 in	1 in	**2KMN4**	17 in	13½ in	1 in	**2KMN6**
Louver Kit	—	—	—	—	17 in	13½ in	1 in	**2KMN9**
Register Kit	12 in	10 in	2½ in	**2KMP1**	14 in	12 in	2½ in	**2KMP2**
Reusable Filter	10 in	12 in	1 in	**3TKC5**	12 in	16 in	1 in	**3TKC9**
Reusable Filter	12½ in	14 in	1 in	**2KMN5**	17 in	13½ in	1 in	**2KMN7**

Dayton

Freeze Protection Electric Plenum Heater

- Thermostat range: 40°F to 90°F

Has a set of normally open (NO) contacts that can send a signal to an optional alarm device that activates if the heater cycles off on its over-temperature safety control. It notifies users before freezing occurs. Unit heats hard-to-access or concealed areas like plenum spaces. Ceiling mounted using included bracket or threaded rod mounting.

Wattage Output	Voltage	Air Flow	Overall Height	Overall Width	Overall Depth	Item No.
2.5kW/1.9kW	208/240V AC	150/130 cfm	12 ½ in	14 in	14 in	**2HDA1**

Dayton Markel QMARK TPI

Suspended Electric Wall and Ceiling Unit Heaters

- Accessories available on page 3078 and Grainger.com

Suspend from a bracket or threaded rod for use in downflow or horizontal applications and to save limited floorspace. Units use fan-forced air to provide primary or supplementary heating in large or exposed areas like factories, warehouses, and stock rooms. Find more Electric Wall and Ceiling Heaters on Grainger.com.

Wattage Output	Voltage	Phase	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Vertical Mounting H	Horizontal Air Throw	Mfr. Model	Item No.
Dayton Heaters (Accessories available on page 3078)											
1.8kW/3.7kW, 2.5kW/5kW	208/240V AC	1	60°F	270 cfm	12 ½ in	14 in	11 ¼ in	11 ft	12 ft	3UG73	**3UG73**
2.2kW/3kW	208/240V AC	1	27°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU58	**2YU58**
2.5kW/1.9kW	208/240V AC	1	46°F, 60°F	150/130 cfm	12 ½ in	14 in	14 in	—	—	2HDA1	**2HDA1**
2.5kW/3.7kW, 3.3kW/5kW	208/240V AC	1	71°F	210 cfm	16 in	21 in	8 in	15 ft	12 ft	4E169	**4E169**
3kW	208V AC	1	27°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU61	**2YU61**
3kW	277V AC	1	27°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU60	**2YU60**
3kW	480V AC	3	27°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU59	**2YU59**
3.7kW/5kW	208/240V AC	1 or 3	45°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU62	**2YU62**
5kW	208V AC	1 or 3	45°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU65	**2YU65**
5kW	277V AC	1	45°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU64	**2YU64**
5kW	480V AC	3	45°F	350 cfm	16 in	14 in	8 ½ in	9 ft	12 ft	2YU63	**2YU63**
5.6kW/7.5kW	208/240V AC	1 or 3	37°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU66	**2YU66**
7.5kW	208V AC	1 or 3	37°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU68	**2YU68**
7.5kW	480V AC	3	37°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU67	**2YU67**
7.5kW/10kW	208/240V AC	1 or 3	49°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU69	**2YU69**
10kW	208V AC	1 or 3	49°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU71	**2YU71**
10kW	480V AC	3	49°F	650 cfm	21 ¾ in	19 in	8 ½ in	14 ft	18 ft	2YU70	**2YU70**
11.2kW/15kW	208/240V AC	3	52°F	910 cfm	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU72	**2YU72**
15kW	208V AC	1 or 3	52°F	910 cfm	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU74	**2YU74**
15kW	480V AC	3	52°F	910 cfm	21 ¾ in	19 in	13 ¾ in	20 ft	35 ft	2YU73	**2YU73**
15kW/20kW	208/240V AC	3	48°F	1320 cfm	21 ¾ in	19 in	13 ¾ in	23 ft	41 ft	2YU75	**2YU75**
20kW	480V AC	3	48°F	1320 cfm	21 ¾ in	19 in	13 ¾ in	23 ft	41 ft	2YU76	**2YU76**
22.5kW/30kW	208/240V AC	3	45°F/53°F	1800/2100 cfm	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU77	**2YU77**
25kW	480V AC	3	38°F/44°F	1800/2100 cfm	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	3END3	**3END3**
30kW	208V AC	3	45°F/53°F	1800/2100 cfm	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU79	**2YU79**
30kW	480V AC	3	45°F/53°F	1800/2100 cfm	30 in	26 ⅝ in	13 ¾ in	20 ft	50 ft	2YU78	**2YU78**
37.5kW/50kW	208/240V AC	3	53°F/61°F	2600/3000 cfm	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	2YU80	**2YU80**
40kW	480V AC	3	42°F/49°F	2600/3000 cfm	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	3END4	**3END4**
50kW	480V AC	3	53°F/61°F	2600/3000 cfm	30 in	26 ⅝ in	18 ⅛ in	25 ft	60 ft	2YU81	**2YU81**
60kW	480V AC	3	60°F	3,400 cfm	35 ½ in	30 ½ in	14 ½ in	31 ft	50 ft	4TDH7	**4TDH7**
80kW	480V AC	3	55°F	5000 cfm	39 ½ in	37 ½ in	18 ½ in	40 ft	65 ft	4TDH9	**4TDH9**
Markel Products											
2.5 kW, 3.3 kW	240/208 V	1, 3	26°F	400 cfm	17 ¾ in	14 15/32 in	6 ½ in	9 ft	12 ft	5103NHF2B	**786LL9**
3.3 kW	208 V	1, 3	26°F	400 cfm	17 ¾ in	14 7/16 in	6 ½ in	9 ft	12 ft	5103NF2F	**786LL8**
3.7 kW, 5 kW	240/208 V	1, 3	40°F	400 cfm	17 ¾ in	14 15/32 in	6 ½ in	9 ft	12 ft	5105NHF2B	**786LM2**
5 kW	208 V	1, 3	40°F	400 cfm	17 ¾ in	14 15/32 in	6 ½ in	9 ft	12 ft	5105NF2F	**786LM0**
5 kW	277 V	1	40°F	400 cfm	17 ¾ in	14 15/32 in	6 ½ in	9 ft	12 ft	5105NG1G	**786LM1**
5 kW	480 V	3	40°F	400 cfm	17 ¾ in	14 15/32 in	6 ½ in	9 ft	12 ft	5105CAINP3P	**786LM3**
5.6 kW, 7.5 kW	240/208 V	1, 3	34°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	12 ft	22 ft	5107CA1LHF2B	**786LM5**
7.5 kW	480 V	3	34°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	12 ft	22 ft	5107CA1NP3P	**786LM7**
9.9 kW	208 V	1, 3	45°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	14 ft	22 ft	5110CA1LF2F	**786LM8**
10 kW	277 V	1	45°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	14 ft	22 ft	5110CA1LG1G	**786LN0**
10 kW	480 V	3	45°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	14 ft	22 ft	5110CA1NP3P	**786LN1**
10 kW, 7.5 kW	240/208 V	1, 3	45°F	700 cfm	24 5/16 in	21 ½ in	6 ½ in	14 ft	22 ft	5110CA1LHF2B	**786LM9**
11.2 kW, 15 kW	240/208 V	3	43°F	1100 cfm	28 11/16 in	21 ½ in	6 ½ in	20 ft	32 ft	5115CA1LHF3B	**786LN2**
18.7 kW, 25 kW	240/208 V	3	40/44°F	1800/2000 cfm	34 in	29 ¼ in	10 1/16 in	22 ft	45 ft	5125CA1LHF3B	**786LN4**
25 kW	480 V	3	40/44°F	1800/2000 cfm	34 in	29 ¼ in	10 1/16 in	22 ft	45 ft	5125CA1NP3P	**786LN5**
30 kW	480 V	3	47/53°F	1800/2000 cfm	34 in	29 ¼ in	10 1/16 in	20 ft	40 ft	5130CA1NP3P	**786LN7**
39 kW	480 V	3	40/45°F	2800/3100 cfm	34 in	29 ¼ in	10 1/16 in	24 ft	55 ft	5140CA1NP3P	**786LN8**
50 kW	480 V	3	51/56°F	2800/3100 cfm	34 in	29 ¼ in	10 1/16 in	22 ft	50 ft	5150CA1NP3P	**786LP0**
QMark Heaters (Accessories available on page 3078)											
2.2kW/3kW	208/240V AC	1	27°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0321	**25D231**
3kW	208V AC	1	27°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0381	**25D233**
3kW	277V AC	1	27°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0371	**20CA07**
3kW	480V AC	3	27°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0341	**25D232**
3.7kW/5kW	208/240V AC	1 or 3	45°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0521	**25D234**
5kW	208V AC	1 or 3	45°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0581	**25D236**
5kW	277V AC	1	45°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0571	**20CA10**
5kW	480V AC	3	45°F	350 cfm	16 in	14 in	7 ½ in	9 ft	12 ft	MUH0541	**25D235**
5.6W/7.5kW	208/240V AC	1 or 3	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH072	**25D237**
7.5kW	208V AC	1 or 3	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH078	**25D252**
7.5kW	277V AC	1	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH077	**20CA13**
7.5kW	347V AC	1	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH073	**20CA11**
7.5kW	480V AC	3	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH074	**25D238**
7.5kW	600V AC	3	37°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH076	**20CA12**
7.5kW/10kW	208/240V AC	1 or 3	49°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH102	**25D239**
10kW	208V AC	1 or 3	49°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH108	**25D251**
10kW	277V AC	1	49°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH107	**20CA17**
10kW	480V AC	3	49°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH104	**25D240**
10kW	600V AC	3	49°F	650 cfm	21 ¾ in	19 in	7 ½ in	14 ft	18 ft	MUH106	**20CA16**
10kW	600V AC	3	52°F	910 cfm	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH156	**20CA20**
11.2kW/15kW	208/240V AC	3	52°F	910 cfm	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH152	**25D254**
15kW	208V AC	1 or 3	52°F	910 cfm	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH158	**25D253**
15kW	480V AC	3	52°F	910 cfm	21 ¾ in	19 in	12 ¾ in	20 ft	35 ft	MUH154	**25D241**
15kW/20kW	208/240V AC	3	48°F	1320 cfm	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH202	**20CA22**
20kW	208V AC	3	48°F	1320 cfm	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH208	**20CA25**
20kW	480V AC	3	48°F	1320 cfm	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH204	**20CA23**
20kW	600V AC	3	48°F	1320 cfm	21 ¾ in	19 in	12 ¾ in	23 ft	41 ft	MUH206	**20CA24**
25kW	480V AC	3	38°F/44°F	1800/2100 cfm	30 in	26 ⅝ in	11 ¾ in	23 ft	50 ft	MUH254	**20CA27**
25kW	600V AC	3	38°F/44°F	1800/2100 cfm	30 in	26 ⅝ in	11 ¾ in	23 ft	50 ft	MUH256	**20CA28**
30kW	480V AC	3	53°F	1800/2100 cfm	30 in	26 ⅝ in	11 ¾ in	20 ft	50 ft	MUH304	**20CA30**
TPI Heaters											
3kW/4kW	208/240V AC	1	53°F	238 cfm	11 in	10 ⅝ in	9 ⅜ in	7 to 12 ft	10 ft	HF5840TC	**31XL69**
3.6kW/4.8kW	208/240V AC	1	74°F	238 cfm	11 in	10 ⅝ in	9 ⅜ in	7 to 12 ft	10 ft	HF5848TC	**31XL70**

3UG73

4TDH7

25D231

20CA07

31XL69

4E170

2YU93

20CA41

Dayton® QMARK®

Suspended Electric Wall and Ceiling Unit Heater Accessories

- Find more accessories on Grainger.com

Item	Fits kW	For Use With	Mfr. Model	Item No.
Dayton Accessories				
Cord Set 6 Ft	3.5 to 5	4E169	4E170	**4E170**
Disconnect Switch	3 kW, 5 kW, 7 kW, 10 kW, 15 kW, 20 kW	2YU58, 2YU59, 2YU60, 2YU61, 2YU62, 2YU63, 2YU64, 2YU65, 2YU67, 2YU70, 2YU73, 2YU76	2YU93	**2YU93**
	15 kW, 20 kW, 25 kW, 30 kW, 40 kW, 50 kW	2YU66, 2YU69, 2YU72, 2YU74 (When Wired for 3-Phase), 2YU76, 2YU78, 3END3, 3END4	2YU94	**2YU94**
Electric Wall & Ceiling Heater Thermostat	—	2YU58, 2YU60, 2YU61, 2YU74, 2YU77, 2YU79, 2YU80, 2YU81	2YU95	**2YU95**
	60, 80, 100	4TDH6-4THD9, 4TDJ1, 4TDJ2	30KA31	**30KA31**
	—	All Dayton Electric Unit Heater Models Except4TDH6, 4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	2YU33	**2YU33**
	All Except 5KW; 3-Phase	All Dayton Unit Heaters Except 2YU58, 2YU60, 2YU61, 2YU64, 4TDH6, 4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2	2YU90	**2YU90**
Fan Switch	All Wattages	All Dayton Electric Unit Heater Models	2YU82	**2YU82**
Mounting Bracket	15 to 20	15 to 20 kW Dayton Electric Unit Heater	2YV17	**2YV17**
	30	25 & 30 kW Dayton Electric Unit Heater	2YU91	**2YU91**
	30 to 50	25 to 50 kW Dayton Electric Unit Heater	2YU85	**2YU85**
	3 to 10	3 to 10 kW Dayton Electric Unit Heater	2YV16	**2YV16**
	3.5	3 to 5 kW Dayton Electric Unit Heater	2YU83	**2YU83**
	50	40 & 50 kW Dayton Electric Unit Heater	2YU92	**2YU92**
	60 to 100	4TDH7, 4TDH8, 4TDH9, 4TDJ1, 4TDJ2, 4TDH6	4TDJ5	**4TDJ5**
	80 to 100	4TDH9, 4TDJ1, 4TDJ2, 4TDH8	4TDJ4	**4TDJ4**
	7.5 to 20	7.5 to 20 kW Dayton Electric Unit Heater	2YU84	**2YU84**
Step Controller	60 kW, 80 kW, 100 kW	4TDH6, 4TDH7, 4TDH8, 4TDJ1, 4TDJ2, 4THD9	30KA30	**30KA30**
Qmark Accessories				
Disconnect Switch	3 kW, 15 kW	All MUH Heaters	DS25	**25D248**
	25 kW, 50 kW	Mfr. Model No. MUH072, MUH077 , MUH078, MUH102, MUH107, MUH108, MUH152, MUH158 3Ø Only, MUH202, MUH208, MUH252, MUH254, MUH304, MUH404, MUH504	MPDS60	**20CA43**
Fan Switch	3 kW, 15 kW	All MUH Series Heaters	MCFS	**25D247**
Mounting Bracket	15 to 20	15 to 20 kW MUH Unit Heaters	B20	**25D243**
	25 to 30	25 to 30 kW MUH Unit Heaters	B30	**20CA40**
	3 to 10	3 to 10 kW MUH Unit Heaters	B10	**25D242**
	40 to 50	40 to 50 kW MUH Unit Heaters	B50	**20CA41**
Thermostat	—	3UG73, 3UG74	5813-2050-000	**1ZKW6**

29AT97

Washdown Electric Wall and Ceiling Unit Heaters

QMARK®

- 480VAC
- 3-phase
- Mechanical selector dial

Provide warmth where equipment frequently needs to be washed or hosed off, like wastewater treatment plants, coal handling areas, food processing plants, and car washes. Heaters feature an automatic temperature reset switch, pilot light, and mode selector switch. Corrosion-resistant housing and enclosed internal parts prevent damage. May be mounted on walls or ceilings with a mounting bracket. Heaters use a forced-air heating system.

Wattage Output	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
5 kW	23°F	700 cfm	19 ½ in	13 in	18 in	QWD05432BTLS	**29AT97**
10 kW	22°F	1,450 cfm	31 in	20 in	27 in	QWD10432BTLS	**29AT98**
20 kW	26°F	2,400 cfm	31 in	20 in	27 in	QWD20432BTLS	**29AU01**
25 kW	33°F	2,400 cfm	31 in	20 in	27 in	QWD25432BTLS	**29AU02**

5NF01

Hazardous-Location Suspended Electric Wall and Ceiling Unit Heaters

QMARK®

- 480V
- 3-phase
- 24V contactor
- Class I, Group C and D, Division 1 and 2; Class II, Group E, F and G, Division 1 and 2 rated for use in hazardous locations

Fan-forced heaters suspend from the wall or ceiling and can be mounted horizontally with an optional bracket. They feature an automatic reset thermal limit and disconnect switch, and take up less room than cabinet heaters. Suitable for use in hazardous industrial environments like petroleum chemical treatment and storage facilities. Wall-mount thermostat required.

Note: Required remote thermostat or other control sold separately; see page 3026.

Wattage Output	Air Temp. Rise	Air Flow	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
3 kW	13°F	700 cfm	19 ⅛ in	23 ⅞ in	21 in	GUX3004832	**5NF04**
7.5 kW	27°F	840 cfm	19 ⅛ in	23 ⅞ in	21 in	GUX7504832	**5NF06**
10 kW	36°F	840 cfm	19 ⅛ in	23 ⅞ in	21 in	GUX10004832	**5NF01**
15 kW	31°F	1,450 cfm	25 in	27 ⅞ in	21 in	GUX15004832	**5NF02**
20 kW	43°F	1,400 cfm	25 in	27 ⅞ in	21 in	GUX20004832	**5NF03**

32MY02

Electric Heater Coil Re-String Kits

Supco®

Repair worn or damaged heating elements in electric heaters if the original replacement elements are no longer available. Kits include heating wire, isolators, and hardware to allow users to replace elements in duct heaters, electric furnaces, air curtains, and strip heaters.

Coil Length	Outside Dia.	Watts @ 208 V	Watts @ 240 V	Watts @ 277 V	Watts @ 480 V	Mfr. Model	Item No.
12 in	⅝ in	3,750 W	5,000 W	—	—	KIT24500625-25S	**32MY03**
18 in	⅜ in	—	—	2,000 W	—	KIT27200	**32MY05**
18½ in	⅜ in	2,250 W	3,000 W	—	—	KIT24300	**32MY07**
22 in	⅜ in	2,600 W	3,500 W	—	—	KIT24350	**32MY04**
23 in	⅜ in	—	—	—	5,000 W	KIT48500	**32MY02**
2 ft 2 1/2 in	⅜ in	—	4,000 W	—	—	KIT24400	**32MY06**
2 ft 2 in	⅜ in	4,500 W	6,000 W	—	—	KIT24600	**32MY09**
2 ft 4 in	⅜ in	3,750 W	5,000 W	—	—	KIT24501	**32MY01**
2 ft 4 in	⅜ in	4,200 W	5,600 W	—	—	KIT24560	**32MY10**
2 ft 7 1/2 in	⅜ in	5,000 W	6,600 W	—	—	KIT24660	**32MY08**

Hazardous-Location Electric Cabinet Wall Heaters

- Class I Div. 1 and 2 Groups B, C, and D
- Min. height from floor: 9" Markel, 8" QMark

Quiet, convection-style heaters used in hazardous industrial environments like petroleum refineries, gasoline storage areas, petrochemical facilities, and dry cleaning plants. Wall mount with included brackets. Thermostat not included.

Note: Required contactors sold separately on page 173. Required thermostats sold separately on page 3026.

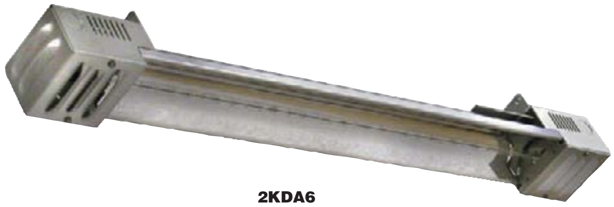
49CT92

5NF09

Wattage Output	Voltage	Phase	Housing Color	Cabinet Height	Cabinet Width	Cabinet Depth	Brand	Mfr. Model	Item No.
1.8 kW	120V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1812-1RA	**49CT92**
	208V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG18081	**3LA87**
	208V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1820-1RA	**49CT93**
	240V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG18041	**3LA88**
	240V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-1824-1RA	**49CT94**
3.6 kW	208V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG36081	**5NF11**
	208V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-3620-1RA	**49CT95**
	240V AC	1	Beige	20 in	34 in	9 in	Qmark	ICG36041	**5NF09**
	240V AC	1	Gray	18 in	34 in	9 in	Markel Products	FEP-3624-1RA	**49CT96**
	480V AC	3	Beige	20 in	34 in	9 in	Qmark	ICG360483	**5NF10**
	480V AC	3	Gray	18 in	34 in	9 in	Markel Products	FEP-3648-3RA	**49CT97**
7.6 kW	240V AC	1	Gray	18 in	58 in	9 in	Markel Products	FEP-7624-1RA	**49CT98**
	480V AC	3	Gray	18 in	58 in	9 in	Markel Products	FEP-7648-3RA	**49CT99**

Indoor Suspended Infrared Radiant Electric Ceiling Heaters

Units use infrared radiant heating to quietly warm people and objects, not the ambient air, without taking up floor or wall space. Suspend from the ceiling to spot-heat areas in workshops, garages, and warehouses. May only be used indoors.



2KDA6

Wattage Output	Voltage	Beam Pattern	Overall Length	Overall Width	Overall Depth	Mfr. Model	Item No.
Quartz Lamp, Silver Housing							
900W/1600W	277V AC	60 °	24 in	3 ¾ in	3 ⅜ in	MM-24A	**2KDA6**
3000W/3800W	600V AC	60 °	46 in	3 ¾ in	3 ⅜ in	MM-46A	**2KDA7**

Indoor/Outdoor Suspended Infrared Radiant Electric Wall Heaters

- Beam pattern: 45°

Can withstand rain and are typically used to spot heat spaces like condominium terraces, gazebos, under patio umbrellas, and other low-clearance seating areas. Units use infrared radiant heating to quietly warm people and objects, not the air. Included bracket allows for vertical and horizontal orientation.

55EA57

11Z934

11Z939

11Z943

Wattage Output	Voltage	Overall Length	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Carbon Fiber Emitter, Black Housing							
1500W	120V AC	27 in	6 ½ in	5 ½ in	Aura	CF15120B	**55EA57**
2250W/3000W	208/240V AC	38 ½ in	6 ½ in	5 ½ in	Aura	CF30240B	**55EA58**
Quartz Lamp, Black Housing							
1125W/1500W	208/240V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15240B	**11Z944**
1125W/1500W	208/240V AC	22 in	6 in	5 in	Solaira	SCOSYXL15240b	**11Z948**
1500W	120V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15120B	**11Z942**
1500W	120V AC	22 in	6 in	5 in	Solaira	SCOSYXL15120b	**11Z946**
1500W/2000W	208/240V AC	15 ½ in	4 in	4 ¼ in	Solaira	SCOSYXL20240b	**11Z950**
Quartz Lamp, Silver Housing							
1125W/1500W	208/240V AC	16 in	10 in	6 in	Solaira	SALPHA15240G	**11Z935**
1500W	120V AC	16 in	10 in	6 in	Solaira	SALPHA15120G	**11Z934**
1500W/2000W	208/240V AC	16 in	10 in	6 in	Solaira	SALPHA20240G	**11Z936**
2250W/3000W	208/240V AC	31 in	10 in	6 in	Solaira	SALPHAH2-30240G	**11Z937**
3000W/4000W	208/240V AC	31 in	10 in	6 in	Solaira	SALPHAH2-40240G	**11Z938**
4500W/6000W	208/240V AC	46 in	10 in	6 in	Solaira	SALPHAH2-60240G	**11Z939**
Quartz Lamp, White Housing							
1125W/1500W	208/240V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15240W	**11Z945**
1125W/1500W	208/240V AC	22 in	6 in	5 in	Solaira	SCOSYXL15240w	**11Z949**
1500W	120V AC	15 ½ in	6 in	4 in	Solaira	SCOSY15120W	**11Z943**
1500W	120V AC	22 in	6 in	5 in	Solaira	SCOSYXL15120w	**11Z947**
1500W/2000W	208/240V AC	15 ½ in	4 in	4 ¼ in	Solaira	SCOSYXL20240w	**11Z951**

Description	Mfr. Model	Item No.
Solaira Controls		
Control and Enclosure, 120V; 208-240V, 30A	PASCR30-1-DIN	**783RM0**
Digital Variable Heat Control, 120/208/240V AC, 16 A	SMRTV16-DV	**20HN32**
Digital Variable Heat Control, 120/208/240V AC, 34 A	SMTRV34-DV	**20HN33**
Occupancy Sensor, 208/240V AC, 16.6 A	SMRTOCC40	**20HN39**
Occupancy Sensor, 208/240V AC, 25 A	SMRTOCC60	**20HN40**
Remote Temperature Monitor, 240V AC	SMRTVTEM-R	**20HN35**
Timer Control for Heater, 208/240V AC, 16.6 A	SMRTTIM40	**20HN37**
Timer Control for Heater, 208/240V AC, 25 A	SMRTTIM60	**20HN38**
Variable Heat Control Knob, Wireless Handheld Remote, 240V AC	SMRTVRMT	**20HN34**

For Use With	Voltage	Mfr. Model	Item No.
Solaira Replacement Heater Lamps			
11Z952	240	SWIREAW15240	**11Z963**
11Z951	240	SWIREAW20240	**11Z964**

Indoor/Outdoor Suspended Infrared Radiant Electric Ceiling Heaters

Quietly heat areas like entrances, patios, and bus shelters. Heaters withstand rain and provide snow and ice control. Can be ceiling- or wall-mounted with either an included or optional bracket. Units may be used with a variable heat controller.

411G63

786LK9

56FD25

786LC9

786LD4

Wattage Output	Voltage	Phase	Beam Pattern	Housing Color	Overall Length	Overall Width	Overall Depth	Mfr. Model	Item No.
Flat Panel Emitter, Aluminum Housing Material									
3150W	208V AC	1	60 °	Silver	47 1⁄16 in	5 ¾ in	9 in	FSA-3120-1	**411G63** *
	240V AC	1	60 °	Silver	47 1⁄16 in	5 ¾ in	9 in	FSA-3124-1	**411G64** *
	480V AC	1	60 °	Silver	47 1⁄16 in	5 ¾ in	9 in	FSA-3148-1	**411G65** *
4300W	208V AC	1 or 3	60 °	Silver	25 1⁄16 in	14 ¾ in	9 ¼ in	FSA-4320-3	**411G66** *
	240V AC	1 or 3	60 °	Silver	25 1⁄16 in	14 ¾ in	9 ¼ in	FSA-4324-3	**411G67** *
	480V AC	1 or 3	60 °	Silver	25 1⁄16 in	14 ¾ in	9 ¼ in	FSA-4348-3	**411G68** *
9500W	208V AC	1 or 3	60 °	Silver	47 1⁄16 in	14 ¾ in	9 ¼ in	FSA-9520-3	**411G69** *
	240V AC	1 or 3	60 °	Silver	47 1⁄16 in	14 ¾ in	9 ¼ in	FSA-9524-3	**411G70** *
	480V AC	1 or 3	60 °	Silver	47 1⁄16 in	14 ¾ in	9 ¼ in	FSA-9548-3	**411G71** *
3150 W	208 V	1	60 °	Gold	46 in	9 in	8 ½ in	F31-FSS-1	**786LK9**
4300 W	208 V	1, 3	60 °	Gold	29 in	20 in	9 ¾ in	F43-FSS-3	**786LL2**
Quartz Lamp, Aluminum Housing Material									
3200W	208V AC	1	30 °	Silver	24 in	15 in	11 in	222-30-THA-208V	**56FD25**
	240V AC	1	30 °	Silver	24 in	15 in	11 in	222-30-THA-240V	**56FD26**
	277V AC	1	30 °	Silver	24 in	15 in	11 in	222-30-THA-277V	**56FD27**
	480V AC	1	30 °	Silver	24 in	15 in	11 in	222-30-THA-480V	**56FD28**
	208V AC	1	60 °	Silver	24 in	15 in	11 in	222-60-THA-208V	**56FD29**
	240V AC	1	60 °	Silver	24 in	15 in	11 in	222-60-THA-240V	**56FD30**
	277V AC	1	60 °	Silver	24 in	15 in	11 in	222-60-THA-277V	**56FD31**
	480V AC	1	60 °	Silver	24 in	15 in	11 in	222-60-THA-480V	**56FD32**
5000W	208V AC	1	30 °	Silver	33 in	15 in	11 in	342-30-THA-208V	**56FD33**
	240V AC	1	30 °	Silver	33 in	15 in	11 in	342-30-THA-240V	**56FD34**
	480V AC	1	30 °	Silver	33 in	15 in	11 in	342-30-THA-480V	**56FD35**
	208V AC	1	60 °	Silver	33 in	15 in	11 in	342-60-THA-208V	**56FD36**
	240V AC	1	60 °	Silver	33 in	15 in	11 in	342-60-THA-240V	**56FD37**
	480V AC	1	60 °	Silver	33 in	15 in	11 in	342-60-THA-480V	**56FD38**
7300W	480V AC	1	30 °	Silver	46 in	15 in	11 in	462-30-THA-480V	**56FD39**
	480V AC	1	60 °	Silver	46 in	15 in	11 in	462-60-THA-480V	**56FD40**
4800W	208V AC	1 or 3	30 °	Silver	24 in	21 ½ in	11 in	223-30-THA-208V	**56FD41**
	240V AC	1 or 3	30 °	Silver	24 in	21 ½ in	11 in	223-30-THA-240V	**56FD42**
	277V AC	1 or 3	30 °	Silver	24 in	21 ½ in	11 in	223-30-THA-277V	**56FD43**
	480V AC	1 or 3	30 °	Silver	24 in	21 ½ in	11 in	223-30-THA-480V	**56FD44**
	208V AC	1 or 3	60 °	Silver	24 in	21 ½ in	11 in	223-60-THA-208V	**56FD45**
	240V AC	1 or 3	60 °	Silver	24 in	21 ½ in	11 in	223-60-THA-240V	**56FD46**
	277V AC	1 or 3	60 °	Silver	24 in	21 ½ in	11 in	223-60-THA-277V	**56FD47**
	480V AC	1 or 3	60 °	Silver	24 in	21 ½ in	11 in	223-60-THA-480V	**56FD48**
7500W	208V AC	1 or 3	30 °	Silver	33 in	21 ½ in	11 in	343-30-THA-208V	**56FD49**
	240V AC	1 or 3	30 °	Silver	33 in	21 ½ in	11 in	343-30-THA-240V	**56FD50**
	480V AC	1 or 3	30 °	Silver	33 in	21 ½ in	11 in	343-30-THA-480V	**56FD51**
	208V AC	1 or 3	60 °	Silver	33 in	21 ½ in	11 in	343-60-THA-208V	**56FD52**
	240V AC	1 or 3	60 °	Silver	33 in	21 ½ in	11 in	343-60-THA-240V	**56FD53**
	480V AC	1 or 3	60 °	Silver	33 in	21 ½ in	11 in	343-60-THA-480V	**56FD54**
10,950W	480V AC	1 or 3	30 °	Silver	46 in	21 ½ in	11 in	463-30-THA-480V	**56FD55**
	480V AC	1 or 3	60 °	Silver	46 in	21 ½ in	11 in	463-60-THA-480V	**56FD56**
Quartz Lamp, Galvanized Steel Housing Material									
3200 W	208 V	1	30 °	Bronze	24 in	15 in	11 in	F-30-222-TH	**786LC9**
	240 V	1	30 °	Bronze	24 in	15 in	11 in	H-30-222-TH	**786LD0**
	240 V	1	60 °	Bronze	24 in	15 in	11 in	H-60-222-TH	**786LD8**
	240 V	1	90 °	Bronze	24 in	15 in	11 in	H-90-222-TH	**786LE6**
	277 V	1	90 °	Bronze	24 in	15 in	11 in	G-90-222-TH	**786LE7**
	480 V	1	90 °	Bronze	24 in	15 in	11 in	P-90-222-TH	**786LE8**
5000 W	480 V	1	90 °	Bronze	33 in	15 in	11 in	P-90-342-TH	**786LH7**
Quartz Lamp, Stainless Steel Housing Material									
3200 W	240 V	1	30 °	Silver	24 in	15 in	11 in	H-30-222-THSS	**786LD4**
	277 V	1	30 °	Silver	24 in	15 in	11 in	G-30-222-THSS	**786LD5**
	208 V	1	60 °	Silver	24 in	15 in	11 in	F-60-222-THSS	**786LE1**
	240 V	1	60 °	Silver	24 in	15 in	11 in	H-60-222-THSS	**786LE2**
	277 V	1	60 °	Silver	24 in	15 in	11 in	G-60-222-THSS	**786LE3**
	480 V	1	60 °	Silver	24 in	15 in	11 in	P-60-222-THSS	**786LE4**
	208 V	1	90 °	Silver	24 in	15 in	11 in	F-90-222-THSS	**786LE9**
	240 V	1	90 °	Silver	24 in	15 in	11 in	H-90-222-THSS	**786LF0**
	277 V	1	90 °	Silver	24 in	15 in	11 in	G-90-222-THSS	**786LF1**
	480 V	1	90 °	Silver	24 in	15 in	11 in	P-90-222-THSS	**786LF2**
4800 W	208 V	1, 3	30 °	Silver	24 in	21 ½ in	11 in	F-30-223-THSS	**786LF3**
	480 V	1, 3	30 °	Silver	24 in	21 ½ in	11 in	P-30-223-THSS	**786LF6**
	208 V	1, 3	90 °	Silver	24 in	21 ½ in	11 in	F-90-223-THSS	**786LG1**
	240 V	1, 3	90 °	Silver	24 in	21 ½ in	11 in	H-90-223-THSS	**786LG2**
	480 V	1, 3	90 °	Silver	24 in	21 ½ in	11 in	P-90-223-THSS	**786LG4**
5000 W	480 V	1	30 °	Silver	33 in	15 in	11 in	P-30-342-THSS	**786LH0**
	480 V	1	90 °	Silver	33 in	15 in	11 in	P-90-342-THSS	**786LJ0**
7500 W	277 V	1, 3	30 °	Silver	33 in	21 ½ in	11 in	H-30-343-THSS	**786LJ2**
	480 V	1, 3	30 °	Silver	33 in	21 ½ in	11 in	P-30-343-THSS	**786LJ3**
	277 V	1, 3	60 °	Silver	33 in	21 ½ in	11 in	H-60-343-THSS	**786LJ5**
	480 V	1, 3	60 °	Silver	33 in	21 ½ in	11 in	P-60-343-THSS	**786LJ6**
	277 V	1, 3	90 °	Silver	33 in	21 ½ in	11 in	H-90-343-THSS	**786LJ8**
	480 V	1, 3	90 °	Silver	33 in	21 ½ in	11 in	P-90-343-THSS	**786LJ9**
7300 W	480 V	1	30 °	Silver	46 in	15 in	11 in	P-30-462-THSS	**786LK1**
	480 V	1	60 °	Silver	46 in	15 in	11 in	P-60-462-THSS	**786LK3**
	480 V	1	90 °	Silver	46 in	15 in	11 in	P-90-462-THSS	**786LK5**
10950 W	480 V	1, 3	30 °	Silver	46 in	21 ½ in	11 in	P-30-463-THSS	**786LK6**
	480 V	1, 3	60 °	Silver	46 in	21 ½ in	11 in	P-60-463-THSS	**786LK7**
Quartz Tube, 304 Stainless Steel Housing Material									
4000W	208V AC	1	60 °	Silver	55 in	7 ½ in	7 in	OCH2-55-208V-SS	**55VL67**
	240V AC	1	60 °	Silver	55 in	7 ½ in	7 in	OCH2-55-240V-SS	**55VL68**
6000W	208V AC	1	60 °	Silver	66 in	7 ½ in	7 in	OCH2-66-208V-SS	**55VL69**
	240V AC	1	60 °	Silver	66 in	7 ½ in	7 in	OCH2-66-240V-SS	**55VL70**
	277V AC	1	60 °	Silver	66 in	7 ½ in	7 in	OCH2-66-277V-SS	**55VL71**
	480V AC	1	60 °	Silver	66 in	7 ½ in	7 in	OCH2-66-480V-SS	**55VL72**
1500W	120V AC	1	60 °	Silver	48 in	5 ⅜ in	6 ½ in	OCH-46-120V-SSE	**2KDA8**
3000W	208V AC	1	60 °	Silver	59 in	5 ⅜ in	6 ½ in	OCH-57-208V-SSE	**2KDA9**
	240V AC	1	60 °	Silver	59 in	5 ⅜ in	6 ½ in	OCH-57-240V-SSE	**2KDC1**
Quartz Tube, Frosted, Galvanized Steel Housing Material									
3000W	208V AC	1	60 °	Bronze	58 in	5 ⅜ in	6 ½ in	OCH57-208VE	**61HK46**
	240V AC	1	60 °	Bronze	58 in	5 ⅜ in	6 ½ in	OCH57-240VE	**61HK47**

** Semi-protected outdoor areas only; units must be covered.*

Electric Infrared Heater Selection Guide

DESIRED TEMP. RISE =
Desired comfort temp. - average ambient temp.

WATTS REQUIRED =

For Indoor Spot Heating: Sq. ft. to heat x desired temp. rise

For Indoor Total Area/ Building Heating: Sq. ft. to heat x desired temp. rise x 0.5

For Outdoor Spot Heating: Sq. ft. to heat x desired temp. rise x 2.0

For Outdoor Snow and Ice Control Heating Systems: Sq. ft. to heat x (avg. 85 to 110 watts/sq. ft.)

Note: Multiple heaters may be required to achieve required watts for desired coverage.

HEATING ELEMENTS

Flat Panel Emitters: No glass materials. For indoor spot heating.

Quartz Lamp: For snow and ice control, indoor/outdoor spot heating, and indoor total area heating.

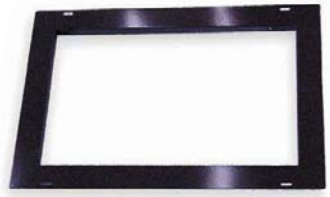
Quartz Tube: For indoor/ outdoor spot heating and indoor total area heating.

Find Electric Wall & Ceiling Heater Thermostats & Accessories on Grainger.com®

Mounting Brackets & Frames for Electric Infrared Heaters

Used to either complete an initial installation or to modify the mounting style of a wall or ceiling heater, such as surface mounting a recessed heater.

Outside H	Outside W	Color	For Use With	Mfr. Model	Item No.
Mounting Frame, Recessed, Surface-Mount, Frame Extends 1 in					
27 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 222-TH Series	RMF-222-A	**3UD75**
	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 222-THSS Series	RMF-222-SS-A	**3UD76**
32 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 223-THSS Series	RMF-223-SS	**3UD77**
49 in	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 462-THSS Series	RMF-462-SS-A	**3UD79**
Mounting Frame, Recessed-Mount, Frame Extends 1 in					
36 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 342-TH Series	RMF-342-A	**2KDD9**
	17 ⅞ in	Gray	Fits ALL Fostoria Mfg. No 342-THSS Series	RMF-342-SS-A	**2KDD8**
41 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 343-THSS Series	RMF-343-SS	**2KDE1**
49 in	17 ⅞ in	Brown	Fits ALL Fostoria Mfg. No 462-TH Series	RMF-462-A	**2KDE2**
54 in	29 ⅜ in	Gray	Fits ALL Fostoria Mfg. No 463-THSS Series	RMF-463-SS	**2KDE3**
Tandem Kit, Ceiling-Mount, Frame Extends 1 ⅝ in					
27 in	17 ⅞ in	Gray	Supports (2) FSS-95 Series, Mfr. No. FSS-9520-3, FSS-9524-3, FSS-9548-3	FSS-95TMK	**45EM34**
Wall Mounting Bracket, Surface-Mount					
12 in	41 in	Gray	All Fostoria Mul-T-Mount and OCH Models	VMB-41-SS	**2KDD1**



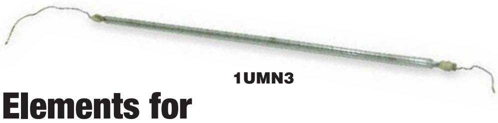
2KDD9

Panel Emitters for Electric Infrared Heaters

Replace worn or damaged emitters in indoor electric infrared heaters. Emitters quietly warm surfaces through radiant energy.

Wattage Output	Voltage	For Use With	Mfr. Model	Item No.
3,150 W	208V AC	CH-420-1C, CH-420-3A, Mfr. No. MR-420-1	64337-022	**45EM42**
	240V AC	CH-424-1A, CH-424-1C, Mfr. No. MR-424-1	64337-023	**45EM43**
	480V AC	CH-448-1A, CH-448-1C, Mfr. No. MR-448-1	64337-025	**45EM44**
4,300 W	208V AC	CH-620-3A, CH-620-3C, Mfr. No. MR-620-3	64337-027	**45EM45**
	240V AC	CH-624-3A, CH-624-3C, Mfr. No. MR-624-3	64337-028	**45EM46**
	240V AC	Mfr. No. FHK-624-3A	64337-050	**45EM53**
	480V AC	CH-648-3A, CH-648-3C, Mfr. No. MR-648-3	64337-030	**45EM47**
	480V AC	Mfr. No. FHK-648-3A	64337-051	**45EM54**
9,500 W	208V AC	CH-1320-3A, CH-1320-3B, Mfr. No. MR-1320-3	64337-032	**45EM48**
	240V AC	CH-1324-3A, CH-1324-3B, Mfr. No. MR-1324-3	64337-033	**45EM49**
	240V AC	CH-2724-3B, CH-2724-3C, Mfr. No. MR-2724-3	64337-038	**45EM51**
	240V AC	Mfr. No. FHK-1324-3A	64337-053	**45EM55**
	480V AC	CH-1348-3A, CH-1348-3B, Mfr. No. MR-1348-3	64337-035	**45EM50**
	480V AC	CH-2748-3B, CH-2748-3C, Mfr. No. MR-2748-3	64337-040	**45EM52**
	480V AC	Mfr. No. FHK-1348-3A	64337-054	**45EM56**

45EM45



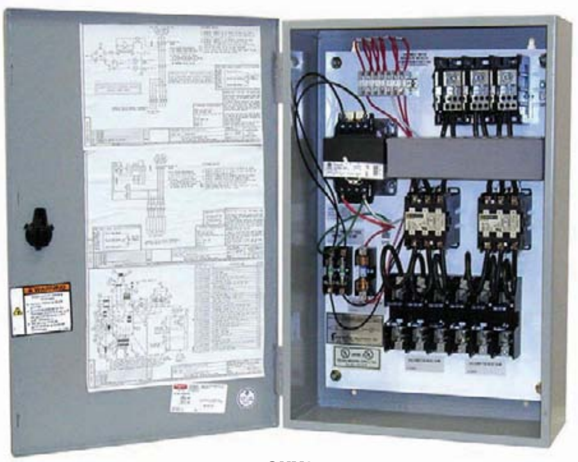
1UMN3

Tubular Elements for Electric Infrared Heaters

Replace worn or damaged elements in indoor and outdoor electric infrared heaters and quietly warm surfaces using radiant energy. Horizontal burn, except where noted.

Wattage Output	For Use With	Voltage	Overall Dim. - Dia. x L	Mfr. Model	Item No.	
Clear, Electric Infrared Tubular Heater Element, 5½ in Pigtail						
500 W	Mfr. No. MM-13A	120V AC	⅜ in x 8 11/16 in	630-05129	**29XR19**	
1,600 W	223, Mfr. No. 222, MM-24A	208V AC	5/16 in x 19 11/16 in	AGS1620	**56FD57**	
		208V AC	⅜ in x 19 11/16 in	630-16209	**1UMN3**	
		240V AC	⅜ in x 19 11/16 in	631-16249	**29XR26**	*
		240V AC	5/16 in x 19 11/16 in	AGS1624	**56FD58**	
		240V AC	⅜ in x 19 11/16 in	630-16249	**1UMN4**	
		277V AC	⅜ in x 19 11/16 in	630-16279	**29XR22**	
		277V AC	5/16 in x 19 11/16 in	AGS1627	**56FD59**	
		480V AC	5/16 in x 19 11/16 in	AGS1648	**56FD60**	
		480V AC	⅜ in x 19 11/16 in	630-16489	**2KCZ8**	
2,500 W	343, Mfr. No. 342, MM-33A	208V AC	⅜ in x 28 11/16 in	630-2520	**29XR23**	
		208V AC	5/16 in x 19 11/16 in	AGS2520	**56FD61**	
		240V AC	5/16 in x 19 11/16 in	AGS2524	**56FD62**	
		240V AC	⅜ in x 28 11/16 in	630-25249	**2KCZ9**	
		277V AC	⅜ in x 28 11/16 in	630-25279	**29XR24**	
		480V AC	5/16 in x 19 11/16 in	AGS2548	**56FD63**	
		480V AC	⅜ in x 28 11/16 in	630-25489	**2KDA1**	
		600V AC	⅜ in x 28 11/16 in	631-25609	**29XR28**	*
3,650 W	463, Mfr. No. 462, MM-46A	480V AC	5/16 in x 19 11/16 in	AGS3648	**56FD64**	
		480V AC	⅜ in x 41 11/16 in	630-36489	**1UMN5**	
3,800 W		600V AC	⅜ in x 41 11/16 in	631-38579	**29XR29**	*
		600V AC	⅜ in x 41 11/16 in	630-38579	**29XR25**	
Frosted, Electric Infrared Tubular Heater Element, 5½ in Pigtail						
450 W	Mfr. No. FFH-912B	120V AC	⅝ in x 12 15/16 in	671-3454	**1UMN9**	
550 W	Mfr. No. FFH-512A	120V AC	⅜ in x 19½ in	671-3492	**1UMP1**	
Frosted, Electric Infrared Tubular Heater Element, Terminals						
1,500 W	Mfr. No. OCH-46	120V AC	⅝ in x 39 11/16 in	671-3784	**1UMN6**	
2,000 W		208V AC	⅝ in x 39 11/16 in	671-5061	**29XR41**	
		277V AC	⅝ in x 39 11/16 in	671-5018	**29XR38**	
2,250 W	Mfr. No. OCH-57	480V AC	⅝ in x 50 11/16 in	671-5058	**29XR39**	
3,000 W		208V AC	⅝ in x 50 11/16 in	671-5060	**1UMN7**	
		240V AC	⅝ in x 50 11/16 in	671-3786	**1UMN8**	
		277V AC	⅝ in x 50 11/16 in	671-5059	**29XR40**	
Red, Glare Reduction Sleeve						
1,600 W	All 1600W Qtz. Lamp	—	11/16 in x 16¼ in	31939009	**1UMR1**	*
2,500 W	All 2500W Qtz. Lamp	—	11/16 in x 24¼ in	31940009	**2KDA2**	*
3,650 W	All 3650W Qtz. Lamp	—	11/16 in x 38¾ in	31941009	**1UMR2**	*

** Horizontal or vertical burn.*



5GUY8

Enclosures for Electric Infrared Heaters

- 1 or 3 phase

Includes door lock, NEMA 1 enclosure, and 50A contactor(s). Find more on Grainger.com.

Amperage	208V AC, Control Volts 24 Mfr. Model	Item No.	240V AC, Control Volts 24 Mfr. Model	Item No.	480V AC, Control Volts 24 Mfr. Model	Item No.	480V AC, Control Volts 120 Mfr. Model	Item No.
50 A	FPC-8210	**5JNG2**	FPC-2210	**5JNG6**	FPC-4210	**5JNF8**	FPC-4110	**5GUY8**
100 A	FPC-8220	**5JNG3**	FPC-2220	**5JNG7**	FPC-4220	**5JNF9**	FPC-4120	**5GUY9**
200 A	FPC-8240	**5JNG4**	FPC-2240	**5JNG8**	FPC-4240	**5JNG0**	FPC-4140	**5GUZ0**
300 A	FPC-8260	**5JNG5**	FPC-2260	**5JNG9**	FPC-4260	**5JNG1**	FPC-4160	**5GUZ1**

54EP09
(Tank Not Included)

2E393

Portable Gas Tank-Top Radiant Heaters

- Fuel type: propane

Heaters mount on standard DOT 20-lb LP cylinders, making them ideal as a temporary heat source in cold buildings, garages, and jobsites. No electricity required.

Heating Capacity Output	Heating Area	Fuel Consumption	Min. Cylinder Size	Ignition Type	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
1-Head, 360° Cylinder Head Shape										
40,000 BtuH	1,000 sq ft	1.8 lb/hr	20 lb	Standing Pilot	20 11/16 in	8 ⅞ in	8 ⅞ in	Dyna-Glo	TT360DG	**54EP09**
45,000 BtuH	1,125 sq ft	2.08 lb/hr	20 lb	Standing Pilot	15 ¾ in	11 in	11 in	Mr. Heater	MH540T	**197JR0**
1-Head, Rectangle Head Shape										
16,000 BtuH	400 sq ft	0.66 lb/hr	11 lb	Standing Pilot	13 ⅛ in	10 1/6 in	4 ½ in	Re-Verber-Ray	P-16T	**2E392**
32,000 BtuH	500 sq ft	1.3 lb/hr	14 lb	Standing Pilot	18 ⅝ in	10 1/6 in	4 ½ in	Re-Verber-Ray	P-32T	**2E393**
1-Head, Round Head Shape										
15,000 BtuH	176 sq ft	0.66 lb/hr	20 lb	Standing Pilot	12 1/16 in	8 ¼ in	7 ⅛ in	Dyna-Glo	TT15CDGP	**453V10**
15,000 BtuH	250 sq ft	0.66 lb/hr	20 lb	Matchless Piezo	12 in	7 ⅛ in	8 ¼ in	Dayton	5RCC0	**5RCC0**
2-Head, Round Head Shape										
30,000 BtuH	490 sq ft	1.4 lb/hr	20 lb	Standing Pilot	17 ¼ in	6 7/16 in	6 ½ in	Dyna-Glo	TT30CDGP	**453V11**
30,000 BtuH	500 sq ft	1.32 lb/hr	20 lb	Matchless Piezo	15 ½ in	17 ¼ in	6 ½ in	Dayton	5RCC1	**5RCC1**

197JM5

197JW7

Portable Gas Table-Top Heaters

- Fuel type: propane
- Matchless piezo ignition

Heaters are placed on work surfaces or floors to provide supplemental, close-up warmth, making them ideal for personal heating.

Heating Capacity Output	Heating Area	Fuel Consumption	Min. Cylinder Size	Body Shape	Housing Color	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
3,800 BtuH	95 sq ft	0.2 lb/hr	1 lb	Cylindrical	Grey, Red	12 in	10 ⅜ in	10 in	MH4B-F215120	**197JM5**
9,000 BtuH	225 sq ft	0.33 lb/hr	1 lb	Rectangular	Black, Red	14 ⅜ in	9 in	14 ⅜ in	MH9BX-F232050	**197JN2**
12,000 BtuH	300 sq ft	0.6 lb/hr	1 lb	Rectangular	Black, Camo	14 ¼ in	9 in	14 ¼ in	MH12HB-F232045	**197JN1**
18,000 BtuH	450 sq ft	0.83 lb/hr	2 lb	Rectangular	Black, Red	19 in	11 ⅞ in	17 ½ in	MH18B-F274806	**197JW7**

60YG45

60YG46

Portable Gas Patio Heaters

Provide 360° radiant heat for restaurant, hotel, and retail patios as well as other outdoor locations. Heaters have a wide, angled canopy-style reflector that directs heat downward, keeping people warm at ground level. They can be moved around as heating needs change. Models conceal LP cylinders inside a cabinet in the base.

Heating Capacity Input	Heat Pattern	Housing Color	Min. Cylinder Size	Ignition Type	Overall Height	Overall Height	Overall Width	Overall Width	Overall Depth	Overall Depth	Brand	Mfr. Model	Item No.
45,000 BtuH	6 to 10 ft	Bronze	20 lb	Electrical Spark	90 in	90 in	18 ¼ in	18 ¼ in	35 ½ in	35 ½ in	Crown Verity	CV-2620-AB	**60YG45**
45,000 BtuH	6 to 10 ft	Matte Silver	20 lb	Electrical Spark	90 in	90 in	18 ¼ in	18 ¼ in	35 ½ in	35 ½ in	Crown Verity	CV-2620-SV	**60YG47**
45,000 BtuH	6 to 10 ft	Silver	20 lb	Electrical Spark	90 in	90 in	18 ¼ in	18 ¼ in	35 ½ in	35 ½ in	Crown Verity	CV-2620-SS	**60YG46**
46,000 BtuH	8 to 10 ft	Bronze	20 lb	Intermittent Spark	87 in	87 in	32 in	32 in	32 in	32 in	Bond	52156	**786Y45**
46,000 BtuH	8 to 10 ft	Silver	20 lb	Intermittent Spark	87 in	87 in	32 in	32 in	32 in	32 in	Bond	52157	**786Y46**

6BY74

Portable Gas Convection Can Heaters

- Matchless piezo ignition

Heaters use convection heating to create currents that warm and circulate the air. They're typically used in construction applications and are placed in the center of a small area to provide 360° supplemental heating.

Heating Capacity Output	Heating Area	Fuel Consumption	Min. Cylinder Size	Overall Depth	Brand	Mfr. Model	Item No.
Natural Gas							
100,000 BtuH	—	100 cfh	—	13 in	L.B. White	CV100CZND12001B	**16W293**
Propane							
25,000 BtuH	600 sq ft	1.16 lb/hr	20 lb	11 ⅝ in	Dayton	—	**6BY71**
25,000 BtuH	600 sq ft	11.6 lb/hr	20 lb	11 ¾ in	Dyna-Glo	RMC-LPC25DG	**453V04**
80,000 BtuH	2,000 sq ft	2.32 / 3.71 lb/hr	20 lb	15 ⅞ in	Dyna-Glo	RMC-LPC80DG	**453V05**
80,000 BtuH	2,000 sq ft	3.71 lb/hr	100 lb	15 ⅞ in	Dayton	—	**6BY73**
200,000 BtuH	4,700 sq ft	9.28 lb/hr	100 lb	15 ⅞ in	Dayton	—	**6BY74**
200,000 BtuH	4,700 sq ft	9.28 lb/hr	100 lb	15 ⅞ in	Dyna-Glo	RMC-LPC200DG	**453V06**
200,000 BtuH	—	9.28 lb/hr	100 lb	15 in	L.B. White	900-320C	**16W295**
250,000 BtuH	7,000 sq ft	2.1/10.4 lb/hr	100 lb	13 in	L.B. White	CV225CZPD11001B	**16W292**
250,000 BtuH	—	11.6 lb/hr	100 lb	15 in	L.B. White	900-341H	**16W294**

1WVL8

Portable Gas Radiant Can Heaters

Heaters use infrared radiant heating, which is absorbed by people and objects to warm them faster and more efficiently than convection heaters that warm the ambient air. They're typically used in construction applications and are placed in the center of a small area to provide 360° supplemental heating.

Heating Capacity Output	Heating Area	Fuel Consumption	Ignition Type	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Natural Gas									
100,000 BtuH	2,900 sq ft	104 cfh	Matchless Piezo	29 ⅞ in	16 ⅜ in	16 ⅜ in	Dayton	—	**1WVL8**
100,000 BtuH	2,900 sq ft	104 cfh	Matchless Piezo	29 15/16 in	16 5/16 in	16 5/16 in	Dyna-Glo	RA100NGDGD	**453V07**
250,000 BtuH	5,900 sq ft	250 cfh	Matchless Piezo	44 5/16 in	14 ⅝ in	14 ⅝ in	Dayton	—	**6BY72**
250,000 BtuH	5,900 sq ft	250 cfh	Continuous Spark	44 5/16 in	14 11/16 in	14 11/16 in	Dyna-Glo	RA250NGDGD	**453V09**
Propane, Minimum Cylinder Size 100 lb									
125,000 BtuH	2,900 sq ft	5.8 lb/hr	Matchless Piezo	29 15/16 in	16 5/16 in	16 5/16 in	Dyna-Glo	RA125LPDGD	**453V08**

Natural Gas
453V02

Natural Gas
5PFW3

Natural Gas
52JP78

Propane
197JZ5

Propane
3VE55

Propane
32MY59

Propane
16W280

Dyna-Glo · Dayton · MASTER · L.B.WHITE · SURE FLAME · heat wagon · DEWALT

Direct-Fired Portable Gas Torpedo Heaters

These heaters are used as the primary source of heat in ventilated enclosed spaces or in open spaces, like jobsites and construction sites. Heaters have an open flame that directly heats the air to warm a space.

Heating Capacity Output	Heating Area	Key Features	Fuel Consumption	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Natural Gas, Electric Ignition									
150,000 BtuH	3,500 sq ft	Built-In Air Pressure Gauge, Digital Readout, On/Off Switch, Thermostat	146 cfh	16 ⅛ in	11 13/16 in	25 9/16 in	Dyna-Glo	RMC-FA150NGDGD	**453V02**
	3,500 sq ft	Flame-Out Sensor, On/Off Switch, Thermostat	146 cfh	16 ⅛ in	25 ⅝ in	11 13/16 in	Dayton	—	**3VE56**
	3,800 sq ft	Digital Readout, Flame-Out Sensor, On/Off Switch, Thermostat	146 cfh	15 in	9 in	26 in	Master	MH-150NGT-GFA	**32MY62**
155,000 BtuH	3,500 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, LED Diagnostics, On/Off Switch, Thermostat	155 cfh	16 in	9 ½ in	24 in	L.B. White	CP170EUNN21163T	**16W281**
	3,500 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, On/Off Switch, Thermostat	155 cfh	16 in	9 ½ in	24 in	L.B. White	CP170DSNN21163T	**16W278**
Natural Gas, Propane, Electric Ignition									
250,000 BtuH, 400,000 BtuH	20,000 sq ft	Flame-Out Sensor, LED Diagnostics	18.6 lb/hr	21 ½ in	12 ½ in	34 ½ in	L.B. White	CH400	**60NT66**
400,000 BtuH	20,000 sq ft	Flame-Out Sensor, LED Diagnostics	18.6 lb/hr, 400 cfh	22 ½ in	21 ¼ in	50 in	L.B. White	CP400DF	**60NT68**
	20,000 sq ft	Flame-Out Sensor, On/Off Switch, Thermostat	400 cfh, 4.4 gph	24 in	18 in	46 in	Sure Flame	S405	**5PFW3**
750,000 BtuH	37,000 sq ft	Flame-Out Sensor, LED Diagnostics, On/Off Switch, Thermostat	750 cfh, 8.25 gph	30 in	26 in	48 ½ in	Heat Wagon	1800B	**52JP77**
950,000 BtuH	47,500 sq ft	Flame-Out Sensor, LED Diagnostics, On/Off Switch, Thermostat	950 cfh, 10.45 gph	39 in	30 ½ in	73 in	Heat Wagon	950H	**52JP78**
Propane, Battery Ignition									
68,000 BtuH	1,700 sq ft	Flame-Out Sensor, On/Off Switch	3.15 lb/hr	17 ¼ in	21 ⅛ in	12 ¼ in	DeWalt	DXH70CFA	**197JZ5**
Propane, Electric Ignition									
40,000 BtuH	940 sq ft	Flame-Out Sensor	1.9 lb/hr	13 ½ in	19 5/16 in	8 ⅛ in	Dayton	—	**3VE55**
60,000 BtuH	1,350 sq ft	Flame-Out Sensor	2.3 lb/hr	13 ½ in	19 5/16 in	8 ⅛ in	Dayton	—	**3VE54**
	1,500 sq ft	Flame-Out Sensor, On/Off Switch	1.9 lb/hr	13 in	7 ½ in	18 in	Master	MH-60V-GFA	**32MY59**
125,000 BtuH	3,100 sq ft	Built-In Air Pressure Gauge, On/Off Switch	3.5 lb/hr	16 in	12 in	25 9/16 in	L.B. White	Tradesman 125	**53CU96**
	3,100 sq ft	Flame-Out Sensor	8 lb/hr	16 ⅛ in	25 ⅝ in	11 13/16 in	Dayton	—	**3VE57**
	3,125 sq ft	Flame-Out Sensor, On/Off Switch	5.8 lb/hr	15 in	9 in	25 in	Master	MH-125V-GFA	**32MY60**
150,000 BtuH	3,500 sq ft	Built-In Air Pressure Gauge, On/Off Switch	7 lb/hr	16 ⅛ in	11 13/16 in	25 9/16 in	Dyna-Glo	RMC-FA150DGD	**453V01**
	3,500 sq ft	Flame-Out Sensor	7 lb/hr	16 ⅛ in	25 ⅝ in	11 13/16 in	Dayton	—	**3VE58**
	3,800 sq ft	Flame-Out Sensor, On/Off Switch	5.5 lb/hr	15 in	9 in	25 in	Master	MH-150V-GFA	**32MY61**
170,000 BtuH	4,000 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, LED Diagnostics, On/Off Switch, Thermostat	7.2 lb/hr	16 in	9 ½ in	24 in	L.B. White	CP170DUPN21163T	**16W280**
	4,000 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, On/Off Switch, Thermostat	7.2 lb/hr	16 in	9 ½ in	24 in	L.B. White	CP170DSPN21163T	**16W277**
300,000 BtuH	7,000 sq ft	Built-In Air Pressure Gauge, Digital Readout, Fuel Gauge, On/Off Switch, Thermostat	13.9 lb/hr	18 ½ in	12 ⅝ in	33 11/16 in	Dyna-Glo	RMC-FA300DGD	**453V03**
	7,000 sq ft	Flame-Out Sensor, On/Off Switch, Thermostat	13.9 lb/hr	18 ½ in	33 ¾ in	12 ⅝ in	Dayton	—	**3VE59**
375,000 BtuH	9,300 sq ft	Digital Readout, Flame-Out Sensor, On/Off Switch, Thermostat	10.4 lb/hr	23 in	13 in	35 in	Master	MH-375T-GFA	**32MY63**
400,000 BtuH	9,000 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, On/Off Switch, Thermostat	3 gph	21 ½ in	12 ½ in	34 ½ in	L.B. White	CP400HSPN21163T	**16W279**
	9,000 sq ft	Built-In Air Pressure Gauge, Flame-Out Sensor, On/Off Switch, Thermostat	3 gph	21 ½ in	12 ½ in	34 ½ in	L.B. White	CP400HUPN21163T	**16W282**
Propane, Manual Ignition									
42,000 BtuH	1,000 sq ft	Flame-Out Sensor, On/Off Switch	1.9 lb/hr	13 in	7 ½ in	18 in	Master	MH-40-GFA	**32MY58**

Dyna-Glo

Portable Gas Radiant Cabinet Heater

- Propane

Heater uses infrared radiant heating, which is absorbed by people and objects to warm them faster and more efficiently than convection heaters. It's placed on the floor and provides directional supplemental heat to small areas like garages.

Heating Capacity Output	Heating Area	Fuel Consumption	Min. Cylinder Size	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
18,000 BtuH	600 sq ft	0.83 lb/hr	20 lb	23 ⅜ in	14 ¾ in	15 ½ in	RA18LPDG	**453V12**

Natural Gas, Propane 16W290

Propane 16W283

L.B.WHITE

Direct-Fired Portable Gas Ducted & Tent Heaters

Heaters have an open flame that directly heats the air, warming a space. The exhaust gases mix into the air, so these heaters are used in ventilated spaces. They provide the primary source of heat in tented spaces and construction sites where the heat can be ducted. Heaters feature built-in air pressure gauge, LED diagnostics, power failure indicator, and remote-mounted thermostat.

Heating Capacity Output	Heating Area	Fuel Consumption	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Natural Gas, Propane							
80,000 BtuH	20,000 sq ft	3.7 lb/hr, 80 cfh	22 in	28 in	13 ½ in	CS080BSDN22168T	**407M21**
170,000 BtuH	40,000 sq ft	7.9 lb/hr, 170 cfh	32 in	32 5/16 in	24 5/16 in	CS170BSDN22168T	**16W287**
350,000 BtuH	80,000 sq ft	350 cfh, 2.63 gph	41 in	48 5/16 in	28 in	CS350DSDN22168T	**16W290**
Propane							
80,000 BtuH	20,000 sq ft	3.7 lb/hr	22 in	28 in	13 ½ in	TS080CSPN22168T	**16W283**
170,000 BtuH	40,000 sq ft	7.9 lb/hr	32 in	32 5/16 in	24 5/16 in	TS170BSPN22168T	**16W285**

Description	Mfr. Model	Item No.
Accessories		
Ducting with Adapter, Gray, 12 ft L x 12 in Dia., For Use with 16W283, 16W285, 16W287	500-26346	**16W307**
Ducting with Adapter, White, 12 ft L x 12 in Dia., For Use with 16W283, 16W285, 16W287	500-26347	**16W308**
Ducting with Adapter, White, 12 ft L x 18 in Dia., For Use with 16W288, 16W290	500-22835	**16W311**
End Diffuser, 13 5/16 in H x 32 1/8 in W x 22 1/8 in D, For Use with 16W307, 16W308, 16W309	500-26350	**16W310**
End Diffuser, 19 ½ in H x 52 ¾ in W x 28 ½ in D, For Use with 16W311, 16W312	500-23189	**16W313**
Unit Diffuser, 19 ½ in H x 23 1/8 in W x 24 1/8 in D, For Use with 16W283	132902	**16W305**
Unit Diffuser, 19 ½ in H x 32 1/8 in W x 24 1/8 in D, For Use with 16W285	500-26351	**16W306**

52JP73

5PFW5

SURE FLAME heat wagon

Indirect-Fired Portable Gas Ducted & Tent Heaters

- Natural gas/ propane

These heaters have a chamber that is isolated from the flame, allowing the exhaust fumes to be vented outside and the heated air to remain clean. They provide the primary source of heat in tented spaces and construction sites where the heat can be ducted.

Heating Capacity Output	Heating Area	Key Features	Fuel Consumption	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Heaters									
400,000 BtuH	17,000 sq ft	Automatic Safety Shut-Off, Power Failure Indicator, Thermostat	400 cfh, 4.4 gph	59 in	29 in	82 in	Sure Flame	IX405	**52JP73**
400,000 BtuH	17,000 sq ft	Automatic Safety Shut-Off, Thermostat	400 cfh, 4.4 gph	45 in	24 in	60 in	Heat Wagon	VG400	**5PFW5**

Description	Mfr. Model	Item No.
Accessories		
Gas Pressure Regulator, For Use with 11Z967, 11Z968, 52JP73, 5PFW3, 5PFW4, 5PFW5	B42R	**6DMN6**
Ducting, 25 ft, For Use with 5PFW5, 6DMP0, 6DMP2, 6DMP4	WD1225	**6DMR0**
¾ in High Pressure Gas Hose, 25 ft, For Use with 11Z967, 11Z968, 52JP73, 5PFW3, 5PFW4, 5PFW5	7525	**6DMR4**
¾ in High Pressure Gas Hose, 50 ft, For Use with 11Z967, 11Z968, 52JP73, 5PFW3, 5PFW4, 5PFW5	7550	**6DMR5**

heat wagon

Direct-Fired Portable Gas Remediation & Tent Heaters

11Z967

- Natural gas/ propane
- Ductable up to 50 ft.

Units raise and maintain the ambient air temperature high enough to kill insects, making them ideal for treating insect infestations. They can also act as a primary source of heat for tented spaces and construction sites. They have an open flame that directly heats the air to heat a space.

Heating Capacity Output	Heating Area	Key Features	Air Temp. Rise	Fuel Consumption	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Heat Wagon Heaters									
250,000 BtuH	12,500 sq ft	Automatic Safety Shut-Off, Power Failure Indicator	170°F	255 cfh, 2.6 gph	36 in	31 in	45 in	DG250	**11Z967**
400,000 BtuH	20,000 sq ft		180°F	404 cfh, 4.3 gph	39 in	34 in	61 in	DG400	**11Z968**

Description	Brand	Mfr. Model	Item No.
Accessories			
Duct Adapter, For Use with 11Z967	Heat Wagon	AR250	**11Z969**
Duct Adapter, For Use with 11Z968	Heat Wagon	AR400	**11Z970**
Ducting, 25 ft L x 18 in Dia., For Use with 11Z967	Heat Wagon	WD1625HT5	**11Z971**
Ducting, 25 ft L x 20 in Dia., For Use with 11Z968	Heat Wagon	WD2025HT5	**11Z972**
Gas Pressure Regulator, For Use with 11Z967, 11Z968, 52JP73, 5PFW3, 5PFW4, 5PFW5	Itron	B42R	**6DMN6**
Thermostat, 120 V AC, For Use with 11Z967, 11Z968	Heat Wagon	DIGTHIDF-5	**11Z973**

453V13

453V15

Dyna-Glo

Portable Kerosene Radiant Floor Heaters

They efficiently warm small spaces like garages up to 500 sq. ft. Heaters use radiant heating to emit warmth that gets absorbed by people and objects, warming them faster than others that warm the ambient air. They're placed on the floor and can be moved as heating needs change.

Heating Capacity Output	Tank Cap.	Hours on One Filling	Color	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
10,000 BtuH	0.7 gal	13 hr	Black	19 5/16 in	22 5/16 in	11 7/8 in	RMC-55R7B	**453V14**
10,000 BtuH	0.7 gal	13 hr	White	19 5/16 in	22 5/16 in	11 7/8 in	RMC-55R7	**453V13**
10,500 BtuH	0.8 gal	12 hr	White	21 5/16 in	12 5/8 in	12 5/8 in	WK11C8	**453V15**

Handheld
3VE48

Handheld
453U89

Wheeled
3VE50

Wheeled
453U91

Wheeled
32MY54

Wheeled
52JP75

Direct-Fired Portable Oil & Kerosene Torpedo Heaters

An open flame directly heats the air to efficiently warm a space. The exhaust gases mix into the air, so these heaters are used in large ventilated or open spaces to provide the primary source of heat.

Heating Capacity Output	Heating Area	Tank Capacity/ Hours on One Filling	Key Features	Overall Height	Overall Length	Overall Depth	Brand	Mfr. Model	Item No.
Handheld Portable									
50,000 BtuH	1,000 sq ft	5 gal/14 hr	Built-In Air Pressure Gauge, LED Diagnostics	16 ¾ in	32 in	11 ¾ in	Dayton	3VE48	**3VE48**
	1,200 sq ft	5 gal/14 hr	Built-In Air Pressure Gauge, LED Diagnostics	16 11/16 in	32 in	32 in	Dyna-Glo	KFA50DGD	**453U89**
75,000 BtuH	1,700 sq ft	5 gal/9 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	16 ¾ in	32 in	11 ¾ in	Dayton	3VE49	**3VE49**
80,000 BtuH	1,900 sq ft	5 gal/9 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	16 11/16 in	32 in	32 in	Dyna-Glo	KFA80DGD	**453U90**
	2,000 sq ft	5 gal/9 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	15 in	30 in	13 in	Master	MH-80T-KFA	**32MY51**
Wheeled Mounted									
125,000 BtuH	2,900 sq ft	10 gal/11 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	24 ⅝ in	36 ⅛ in	21 ½ in	Dayton	3VE50	**3VE50**
135,000 BtuH	3,200 sq ft	10 gal/10 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	32 ¼ in	41 ⅞ in	41 15/16 in	Dyna-Glo	KFA135DGD	**453U91**
140,000 BtuH	3,500 sq ft	10 gal/9 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	26 in	39 in	22 in	Master	MH-140T-KFA (NTR)	**32MY52**
170,000 BtuH	4,000 sq ft	13 gal/13 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	26 ⅛ in	41 ⅞ in	23 ⅛ in	Dayton	3VE51	**3VE51**
180,000 BtuH	4,200 sq ft	13 gal/10 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	33 ½ in	47 7/16 in	47 7/16 in	Dyna-Glo	KFA180DGD	**453U92**
190,000 BtuH	4,750 sq ft	13 gal/9 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	26 in	43 in	24 in	Master	MH-190T-KFA	**32MY53**
210,000 BtuH	5,000 sq ft	13 gal/8 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	26 ⅛ in	41 ⅞ in	23 ⅛ in	Dayton	3VE52	**3VE52**
215,000 BtuH	5,375 sq ft	13 gal/8 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	26 in	43 in	24 in	Master	MH-215T-KFA	**32MY54**
220,000 BtuH	5,200 sq ft	13 gal/8 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	33 ½ in	47 7/16 in	47 7/16 in	Dyna-Glo	KFA220DGD	**453U93**
	5,500 sq ft	13 gal/8 hr	Built-In Air Pressure Gauge, LED Diagnostics, Thermostat	27 in	45 in	24 in	Master	MH-220T-SDR	**32MY55**
400,000 BtuH	8,500 sq ft	24 gal/8 hr	Digital Readout, LED Diagnostics, Thermostat	36 in	53 in	28 in	Master	MH-400T-KFA	**32MY56**
	8,500 sq ft	27.7 gal/9 hr	LED Diagnostics	39 in	63 in	63 in	Heat Wagon	DF400	**52JP75**
	8,500 sq ft	29 gal/10 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	32 ⅞ in	52 ½ in	31 7/16 in	Dayton	3VE53	**3VE53**
	8,500 sq ft	29 gal/10 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	32 ¾ in	52 ½ in	52 ½ in	Dyna-Glo	KFA400DGD	**453U94**
600,000 BtuH	13,500 sq ft	35.6 gal/8.3 hr	LED Diagnostics	43 in	73 in	73 in	Heat Wagon	DF600	**52JP76**
	15,000 sq ft	40 gal/9 hr	Digital Readout, LED Diagnostics, Thermostat	43 in	75 in	34 in	Master	MH-600T-KFA	**32MY57**
650,000 BtuH	13,500 sq ft	50 gal/10 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	48 ¾ in	69 ¼ in	32 ⅞ in	Dayton	4XA50	**4XA50**
	13,500 sq ft	50 gal/10 hr	Built-In Air Pressure Gauge, Digital Readout, LED Diagnostics, Thermostat	48 11/16 in	69 ¼ in	69 ¼ in	Dyna-Glo	KFA650DGD	**453U95**

Direct-Fired Portable Oil & Kerosene Radiant Torpedo Heaters

Heaters generate radiant heat, which warms people and objects directly instead of heating the ambient air. The air in direct-fired heaters comes in direct contact with an open flame, so there's no heat loss like indirect-fired heaters. Exhaust fumes mix in the air, so these heaters are used to warm well-ventilated enclosed spaces.

Handheld
453U96

Handheld
39E998

Wheeled
52JP74

Heating Capacity Output	Heating Area	Tank Capacity/ Hours on One Filling	Key Features	Overall Height	Overall Length	Overall Depth	Brand	Mfr. Model	Item No.
Handheld Portable									
70,000 BtuH	1,750 sq ft	4 gal/8 hr	—	22 11/16 in	25 7/16 in	25 ½ in	Dyna-Glo	SF70DGD	**453U96**
80,000 BtuH	2,000 sq ft	4 gal/7 hr	Built-In Air Pressure Gauge	14 ½ in	21 in	22 in	Master	MH-80-OFR	**39E998**
Wheeled Mounted									
115,160 BtuH	2,875 sq ft	11.3 gal/13 hr	LED Diagnostics	35 ¼ in	31 ¾ in	32 in	Heat Wagon	HRF115	**52JP74**
125,000 BtuH	3,125 sq ft	14 gal/20 hr	Built-In Air Pressure Gauge	41 in	28 in	29 in	Master	MH-125-OFR-A	**39E997**

Indirect-Fired Portable Oil & Kerosene Torpedo Heaters

- LED diagnostics

Units have a chamber that is isolated from the flame, allowing the exhaust fumes to be vented outside and the heated air to remain clean. They provide the primary source of heat in large spaces like construction sites where the heat can be ducted.

5PFW9

Heating Capacity Output	Heating Area	Tank Capacity/ Hours on One Filling	Overall Height	Overall Length	Overall Depth	Brand	Mfr. Model	Item No.
Heaters, Wheeled Mounted								
91,900 BtuH	4,600 sq ft	17.2 gal/22 hr	31 in	49 in	49 in	Heat Wagon	HVF110	**5PFW8**
174,900 BtuH	8,800 sq ft	27.7 gal/19 hr	38 in	57 in	57 in	Heat Wagon	HVF210	**5PFW9**
231,000 BtuH	17,500 sq ft	57 gal/20 hr	48 in	83 in	83 in	Heat Wagon	HVF410	**5PFX1**
254,400 BtuH	13,000 sq ft	35.7 gal/16 hr	38 in	69 in	69 in	Heat Wagon	HVF310	**5PFX0**

Description	Brand	Mfr. Model	Item No.
Accessories			
Duct Adapter, 10 in, For Use with 5PFW9	Heat Wagon	AR210	**6DMP1**
Duct Adapter, 10 in, For Use with 5PFX0	Heat Wagon	AR310	**6DMP3**
Duct Adapter, 12 in, For Use with 5PFW9	Heat Wagon	AR212	**6DMP2**
Duct Adapter, 12 in, For Use with 5PFX0	Heat Wagon	AR312	**6DMP4**
Duct Adapter, 12 in, For Use with 5PFX1	Heat Wagon	AR401	**6DMP5**
Duct Adapter, 18 in, For Use with 5PFX1	Heat Wagon	AR402	**6DMP6**
Duct Adapter, 8 in, For Use with 5PFW8	Heat Wagon	AR110	**6DMP0**
Ducting, 20 ft, For Use with 6DMP0, 6DMP2, 6DMP4	Heat Wagon	WD1220	**6DMP9**
Ducting, 25 ft, For Use with 5PFW5, 6DMP0, 6DMP2, 6DMP4	Heat Wagon	WD1225	**6DMR0**
Ducting, 25 ft, For Use with 5PFW6, 6DMP5, 6DMP7	Heat Wagon	WD2025	**6DMR3**
Ducting, 25 ft, For Use with 6DMP1	Heat Wagon	WD1425	**6DMR1**
Ducting, 25 ft, For Use with 6DMP3, 6DMP6	Heat Wagon	WD1825	**6DMR2**
Flue Stack, 18 in, For Use with 5PFW8, 5PFW9, 5PFX0, 5PFX1	Selkirk	EF1	**6DMN9**
Thermostat, For Use with 52JP74, 52JP75, 52JP76, 5PFW8, 5PFW9, 5PFX0, 5PFX1	Heat Wagon	THIDF	**6DMN8**

Natural Gas
36FK50

In-Floor Vented Gas Heaters

Heaters install in an opening in the floor and provide supplemental heat in drafty areas with limited space. They lower into the floor and mount either parallel or perpendicular to the floor joists. Venting is required. They can be controlled with a unit-installed thermostat or a separate wall thermostat.

Heating Capacity Input	Heating Capacity Output	Heating Area	Thermostat Incl.	Grille Dim. - L x W	Rough-In Dim. - L x W x D	Mfr. Model	Item No.
Natural Gas							
45,000 BtuH	31,000 BtuH	1,000 sq ft	No	32 in x 24 in	32 ⅜ in x 24 ¼ in x 28 in	4505622A	**36FK50**
60,000 BtuH	42,000 BtuH	1,400 sq ft	No	42 in x 24 in	42 ⅜ in x 24 ¼ in x 28 in	6005622A	**36FK51**
Propane							
45,000 BtuH	31,000 BtuH	1,000 sq ft	No	32 in x 24 in	32 ⅜ in x 24 ¼ in x 25 in	4505621A	**36FK52**
60,000 BtuH	42,000 BtuH	1,400 sq ft	No	42 in x 24 in	42 ⅜ in x 24 ¼ in x 28 in	6005621A	**36FK53**

Natural Gas, Solid Face Style
36FK36

Natural Gas, Visual Flame Style
36FK44

Propane, Solid Face Style
4LFZ5

Propane, Visual Flame Style
2NCR5

Freestanding Vented Gas Floor Heaters

These units provide supplemental heat and can be placed on the floor anywhere in a room without cutting into the floor. They're usually set close to a wall since they require venting that's ducted out of the room.

Heating Capacity Input	Heating Capacity Output	Thermostat Incl.	Vent Diameter	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Natural Gas, Solid Face Style									
20,000 BtuH	15,500 BtuH	No	3 in	21 ½ in	23 in	11 in	Williams	2001622A	**36FK36**
20,000 BtuH	16,300 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV20ENAT	**4LFZ6**
35,000 BtuH	24,500 BtuH	Unit-Mounted	4 in	26 in	37 in	18 ⅜ in	Empire	RH35NAT	**4LGF7**
35,000 BtuH	25,000 BtuH	No	4 in	28 ⅞ in	25 in	15 ⅛ in	Williams	3501522A	**36FK37**
40,000 BtuH	32,600 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV40ENAT	**4LGA5**
50,000 BtuH	34,500 BtuH	No	4 in	32 ⅞ in	30 in	16 in	Williams	5001522A	**36FK38**
55,000 BtuH	44,825 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV55ENAT	**4LGA7**
65,000 BtuH	47,000 BtuH	No	5 in	32 ⅞ in	34 in	19 ⅛ in	Williams	6501522A	**36FK39**
Natural Gas, Visual Flame Style									
25,000 BtuH	17,500 BtuH	Unit-Mounted	4 in	26 in	37 in	18 ⅜ in	Empire	RH25NAT	**4LGF5**
35,000 BtuH	25,000 BtuH	No	4 in	28 ⅞ in	25 in	15 ⅛ in	Williams	3502522A	**36FK44**
50,000 BtuH	25,000 BtuH	Unit-Mounted	5 in	29 9/16 in	34 in	23 3/16 in	Empire	RH50BNAT	**2RCG8**
50,000 BtuH	34,500 BtuH	No	4 in	32 ⅞ in	30 in	16 in	Williams	5002522A	**36FK45**
50,000 BtuH	35,000 BtuH	Unit-Mounted	5 in	29 ⅝ in	34 in	23 3/16 in	Empire	RH50CNAT	**4LGG2**
65,000 BtuH	33,000 BtuH	Unit-Mounted	5 in	29 9/16 in	34 in	27 11/16 in	Empire	RH65BNAT	**2RCH5**
65,000 BtuH	45,500 BtuH	Unit-Mounted	5 in	29 ⅝ in	34 in	27 11/16 in	Empire	RH65CNAT	**4LGG6**
65,000 BtuH	47,000 BtuH	No	5 in	32 ⅞ in	34 in	19 ⅛ in	Williams	6502522A	**36FK46**
Propane, Solid Face Style									
20,000 BtuH	15,500 BtuH	No	3 in	21 ½ in	23 in	11 in	Williams	2001621A	**36FK40**
20,000 BtuH	16,300 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV20ELP	**4LFZ5**
25,000 BtuH	17,500 BtuH	Unit-Mounted	4 in	26 in	37 in	18 ⅜ in	Empire	RH25LP	**4LGF4**
35,000 BtuH	24,500 BtuH	Unit-Mounted	4 in	26 in	37 in	18 ⅜ in	Empire	RH35LP	**4LGF6**
35,000 BtuH	25,000 BtuH		4 in	28 ⅞ in	25 in	15 ⅛ in	Williams	3501521A	**36FK41**
40,000 BtuH	32,600 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV40ELP	**4LGA4**
50,000 BtuH	34,500 BtuH	No	4 in	32 ⅞ in	30 in	16 in	Williams	5001521A	**36FK42**
50,000 BtuH	35,000 BtuH	Unit-Mounted	5 in	29 ⅝ in	34 in	23 3/16 in	Empire	RH50CLP	**4LGG1**
55,000 BtuH	44,825 BtuH	Unit-Mounted	3 ½ in	26 in	37 in	15 ¾ in	Empire	DV55ELP	**4LGA6**
65,000 BtuH	45,500 BtuH	Unit-Mounted	5 in	29 ⅝ in	34 in	27 11/16 in	Empire	RH65CLP	**4LGG5**
65,000 BtuH	47,000 BtuH	No	5 in	32 ⅞ in	34 in	19 ⅛ in	Williams	6501521A	**36FK43**
Propane, Visual Flame Style									
50,000 BtuH	25,000 BtuH	Unit-Mounted	5 in	29 9/16 in	34 in	23 3/16 in	Empire	RH50BLP	**2RCH2**
65,000 BtuH	32,500 BtuH	Unit-Mounted	5 in	29 9/16 in	34 in	27 11/16 in	Empire	RH65BLP	**2NCR5**

Accessory Type	Compatible Grainger Part No.	Mfr. Model	Item No.
Accessories			
Blower	36FK37, 36FK38, 36FK39, 36FK41, 36FK42, 36FK43, 36FK44, 36FK45, 36FK46, 36FK47, 36FK48, 36FK49	2102	**36FK85**
Floor Pad	36FK38, 36FK39, 36FK42, 36FK43, 36FK45, 36FK46, 36FK48, 36FK49	4163	**36FK86**

Low-Profile Suspended Gas Wall & Ceiling Unit Heaters

Dayton

- Natural gas/propane, field convertible (LP conversion kit included)
- ½" MNPT connection

Propeller-type heaters are ideal for tight spaces or areas with little headroom. Power venting allows horizontal venting through side walls.

Heating Capacity Input	Heating Capacity Output	Flue Diameter	Overall Height	Overall Width	Overall Depth	Item No.	DISCHARGE NOZZLES 30° Item No.	60° Item No.	90° Item No.
Heaters									
30,000 BtuH	24,900 BtuH	4 in	12 ⅜ in	30 in	25 ⅞ in	**2RYU7**	**5ZJU3**	**5ZJU9**	**5ZJV5**
45,000 BtuH	37,350 BtuH	4 in	12 ⅜ in	30 in	25 ⅞ in	**2RYU8**	**5ZJU3**	**5ZJU9**	**5ZJV5**
60,000 BtuH	49,800 BtuH	4 in	15 ⅞ in	30 in	26 ³⁄₁₆ in	**2RYU9**	**5ZJU4**	**5ZJV0**	**5ZJV6**
75,000 BtuH	61,500 BtuH	4 in	15 ⅞ in	30 in	26 ³⁄₁₆ in	**2RYV1**	**5ZJU4**	**5ZJV0**	**5ZJV6**
90,000 BtuH	73,800 BtuH	5 in	22 ⅝ in	30 in	26 ⅜ in	**2RYV2**	**5ZJU5**	**5ZJV1**	**5ZJV7**
105,000 BtuH	86,100 BtuH	5 in	22 ⅝ in	30 in	26 ⅜ in	**2RYV3**	**5ZJU5**	**5ZJV1**	**5ZJV7**
120,000 BtuH	98,400 BtuH	4 in	22 ⅝ in	30 in	26 ⅜ in	**2RYV4**	**5ZJU5**	**5ZJV1**	**5ZJV7**

2RYU7

Description	Item No.
Venting	
Horiz./Vert. Concentric, For Sizes 030 to 075	**5ZJU1**
Horiz./Vert. Concentric, For Sizes 090 to 120	**5ZJU2**

Standard-Profile Suspended Gas Wall & Ceiling Unit Heaters

Dayton

- Field convertible combustion
- MNPT connection

Heaters save floorspace when heating large, crowded spaces.

Propeller-Type—These heaters are not to be connected to ductwork.

Blower-Type—May be used with standard adjustable louvers, with short duct runs, or discharge nozzles for spot heating. Good for applications where low sound levels are required.

Heating Capacity Input	Heating Capacity Output	Gas Connec. Size	Flue Diameter	Overall Height	Overall Width	Overall Depth	NATURAL GAS Item No.	PROPANE Item No.
Propeller-Type								
100,000 BtuH	83,000 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	43 ½ in	**55FG66**	**55FG75**
125,000 BtuH	103,750 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	43 ½ in	**55FG67**	**55FG76**
150,000 BtuH	124,500 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	43 ½ in	**55FG68**	**55FG77**
175,000 BtuH	145,250 BtuH	½ in	5 in	33 ¾ in	37 ¼ in	43 ½ in	**55FG69**	**55FG78**
200,000 BtuH	166,000 BtuH	½ in	5 in	33 ¾ in	37 ¼ in	43 ½ in	**55FG70**	**55FG79**
250,000 BtuH	207,500 BtuH	¾ in	5 in	33 ¾ in	37 ¼ in	43 ½ in	**55FG71**	**55FG80**
300,000 BtuH	249,000 BtuH	¾ in	6 in	34 in	55 ¼ in	44 ¾ in	**55FG72**	**55FG81**
350,000 BtuH	290,500 BtuH	¾ in	6 in	34 in	55 ¼ in	44 ¾ in	**55FG73**	**55FG82**
400,000 BtuH	332,000 BtuH	¾ in	6 in	34 in	55 ¼ in	44 ¾ in	**55FG74**	**55FG83**
Blower-Type								
100,000 BtuH	83,000 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	49 ¾ in	**55FG84**	**55FG93**
125,000 BtuH	103,750 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	49 ⅜ in	**55FG85**	**55FG94**
150,000 BtuH	124,500 BtuH	½ in	5 in	33 ¾ in	25 ¼ in	49 ⅜ in	**55FG86**	**55FG95**
175,000 BtuH	145,250 BtuH	½ in	5 in	33 ¾ in	37 ¼ in	56 ⅛ in	**55FG87**	**55FG96**
200,000 BtuH	166,000 BtuH	½ in	5 in	33 ¾ in	37 ¼ in	56 ⅛ in	**55FG88**	**55FG97**
250,000 BtuH	207,500 BtuH	¾ in	5 in	33 ¾ in	37 ¼ in	56 ⅛ in	**55FG89**	**55FG98**
300,000 BtuH	246,000 BtuH	¾ in	6 in	34 in	55 ¼ in	53 ⅜ in	**55FG90**	**55FG99**
350,000 BtuH	290,500 BtuH	¾ in	6 in	34 in	55 ¼ in	56 ⅛ in	**55FG91**	**55FH01**
400,000 BtuH	332,000 BtuH	¾ in	6 in	34 in	55 ¼ in	56 ⅛ in	**55FG92**	**55FH02**

55FG66

Fits Heating Capacity	Angle	Item No.
Discharge Nozzles		
100,000 BtuH,	30°	**32V268**
125,000 BtuH,	60°	**32V271**
150,000 BtuH	90°	**32V274**
175,000 BtuH,	30°	**32V269**
200,000 BtuH,	60°	**32V272**
250,000 BtuH	90°	**32V275**
300,000 BtuH,	30°	**32V270**
350,000 BtuH,	60°	**32V273**
400,000 BtuH	90°	**32V276**

High-Efficiency Suspended Gas Wall & Ceiling Unit Heaters

NEXUS

- Natural gas, field convertible
- MNPT connection
- Propeller fan

High-efficiency heaters reduce fuel usage and emissions. Heaters automatically regulate their output temperature based on outside air temperature, and they monitor combustion to maintain emissions levels. Units auto-adjust the air/fuel mixture for altitude.

55GY93

Heating Capacity Input	Heating Capacity Output	Gas Connec. Size	Flue Diameter	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Heaters								
50,000 BtuH	48,600 BtuH	½ in	2 in	13 ⅝ in	42 ¹³⁄₁₆ in	32 ⅝ in	11HU050A1NS1110A	**55GY93**
100,000 BtuH	96,000 BtuH	½ in	2 in	18 ¾ in	42 ¹³⁄₁₆ in	38 in	11HU100A1NS1110A	**55GY94**
150,000 BtuH	143,000 BtuH	½ in	2 in	18 ¾ in	54 ¹³⁄₁₆ in	41 in	11HU150A1NS1110A	**55GY95**
200,000 BtuH	192,000 BtuH	½ in	3 in	18 ¾ in	54 ¹³⁄₁₆ in	42 in	11HU200A1NS1110A	**55GY96**
300,000 BtuH	285,000 BtuH	¾ in	4 in	27 ⅛ in	54 ¹³⁄₁₆ in	42 in	11HU300A1NS1110A	**55GY97**
400,000 BtuH	384,000 BtuH	¾ in	4 in	34 ⅞ in	54 ¹³⁄₁₆ in	42 in	11HU400A1NS1110A	**55GY98**

Description	Compatible Grainger Part No.	Mfr. Model	Item No.
Condensate Neutralizers			
Canister	55GY93, 55GY94, 55GY95, 55GY96	11AS-EW-1	**55GZ02**
Style	55GY97, 55GY98	11AS-EW-2	**55GZ03**
Tubular	55GY93, 55GY94, 55GY95, 55GY96	11AS-E9-1	**55GY99**
Style	55GY97, 55GY98	11AS-E9-2	**55GZ01**

Vented Recessed Gas Wall Heaters

WILLIAMS Comfort Products

EMPIRE Comfort Systems

Heaters release combustion fumes outside of the space being heated to keep the air clean. **Fan Forced** units circulate hot air throughout the space. **Gravity** models use convection heating to create currents that warm and circulate the air, but can also be converted to forced air with an optional blower.

Heating Capacity Input	Heating Capacity Output	Ignition/ Power Source	Wall Type	Overall Height	Brand	NATURAL GAS Mfr. Model	NATURAL GAS Item No.	PROPANE Mfr. Model	PROPANE Item No.
Counter Flow, Fan Forced Convection, 14 ⅛ in W x 10 ¼ in D									
35,000 BtuH	28,000 BtuH	Electronic/Electric	Single	72 ½ in	Williams	3508232	**36FK10**	3508231	**36FK14**
35,000 BtuH	28,000 BtuH	Standing Pilot/Electric	Single	72 ½ in	Williams	3508632	**36FK11**	3508631	**36FK15**
50,000 BtuH	40,000 BtuH	Standing Pilot/Electric	Single	81 in	Williams	5008632	**36FK13**	5008631	**36FK17**
Direct Counter Flow, Fan Forced Convection, 14 ⅛ in W x 11 ¾ in D									
40,000 BtuH	32,000 BtuH	Electronic/Electric	Single	77 ⅜ in	Williams	4007332	**36FK18**	—	—
40,000 BtuH	32,000 BtuH	Standing Pilot/Electric	Single	77 ⅜ in	Williams	4007732	**36FK19**	4007731	**36FK23**
40,000 BtuH	47,000 BtuH	Electronic/Electric	Single	77 ⅜ in	Williams	—	—	4007331	**36FK22**
55,000 BtuH	42,500 BtuH	Electronic/Electric	Single	87 in	Williams	5507332	**36FK20**	5507331	**36FK24**
60,000 BtuH	42,500 BtuH	Standing Pilot/Electric	Single	87 in	Williams	6007732	**36FK21**	—	—
60,000 BtuH	47,000 BtuH	Standing Pilot/Electric	Single	87 in	Williams	—	—	6007731	**36FK25**
Top Vent, Gravity Convection, 16 in W x 6 in D									
25,000 BtuH	17,500 BtuH	Standing Pilot, Match Lit	Single	66 ⅛ in	Empire	GWT25WNAT	**48XH55**	GWT25WLP	**48XH54**
25,000 BtuH	17,870 BtuH	Matchless Piezo, Manual	Single	65 ¾ in	Williams	2509622A	**36FK04**	2509621A	**36FK07**
35,000 BtuH	23,700 BtuH	Matchless Piezo, Manual	Single	65 ¾ in	Williams	3509622A	**36FK05**	3509621A	**36FK08**
35,000 BtuH	24,500 BtuH	Standing Pilot, Match Lit	Single	66 ⅛ in	Empire	GWT35WNAT	**48XH57**	GWT35WLP	**48XH56**
50,000 BtuH	36,900 BtuH	Matchless Piezo, Manual	Double	65 ¾ in	Williams	5009622A	**36FK06**	5009621A	**36FK09**
50,000 BtuH	42,000 BtuH	Standing Pilot, Match Lit	Double	66 ⅛ in	Empire	GWT50WNAT	**48XH59**	GWT50WLP	**48XH58**

Description	Compatible Grainger Part No.	Mfr. Model	Item No.
Accessories			
Thermostat	36FK04, 36FK05, 36FK06, 36FK07, 36FK08, 36FK09, 36FK10, 36FK11, 36FK12, 36FK13, 36FK14, 36FK15, 36FK16, 36FK17, 36FK18, 36FK19, 36FK21, 36FK22, 36FK23, 36FK25, 36FK29, 42ET52, 42ET54, 42ET74, 42ET75	P322016	**36FK66**
Optional Blower	36FK04, 36FK05, 36FK06, 36FK07, 36FK08, 36FK09	2901	**36FK62**
Rear Register Kit		6901	**36FK65**
Side Outlet Register, 10" Boot	36FK10, 36FK11, 36FK12, 36FK13, 36FK14, 36FK15, 36FK16, 36FK17, 36FK18, 36FK19, 36FK20, 36FK21, 36FK22, 36FK23, 36FK24, 36FK25, 42ET74, 42ET75	6701	**36FK72**
Vent Tube, 12 in L		9806	**36FK67**
Vent Enclosure, 12 in L		9812	**36FK75**
Vent Enclosure, 24 in L		9824	**36FK76**
Vent Enclosure, 36 in L		9836	**36FK77**
Oval Vent Starter Kit	—	9929	**36FK69**

36FK10

WILLIAMS Comfort Products

Vented Surface-Mount Gas Wall Heaters

- Matchless piezo ignition
- Manual push button power source

Units release combustion fumes outside of the space being heated. Good for areas like trailers and homes without taking up limited floorspace.

36FK26

Heating Capacity Input	Heating Capacity Output	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Natural Gas, Fan Forced Convection Heating Method, 129 cfm						
17,700 BtuH	13,500 BtuH	28 ⅛ in	21 ¾ in	8 ¼ in	1773512	**36FK32**
Natural Gas, Gravity Convection Heating Method						
14,000 BtuH	9,800 BtuH	26 ¼ in	18 in	7 ⅛ in	1403822	**36FK26**
22,000 BtuH	16,462 BtuH	28 in	32 ⅛ in	10 ¼ in	2203822	**36FK27**
30,000 BtuH	21,000 BtuH	28 in	32 ⅛ in	10 ¼ in	3003822	**36FK28**
Propane, Fan Forced Convection Heating Method, 129 cfm						
17,700 BtuH	13,500 BtuH	28 ⅛ in	21 ¾ in	8 ¼ in	1773511	**36FK34**
Propane, Gravity Convection Heating Method						
14,000 BtuH	9,800 BtuH	26 ¼ in	18 in	7 ⅛ in	1403821	**36FK29**
22,000 BtuH	16,462 BtuH	28 in	32 ⅛ in	10 ¼ in	2203821	**36FK30**
30,000 BtuH	21,000 BtuH	28 in	32 ⅛ in	10 ¼ in	3003821	**36FK31**

Description	Mfr. Model	Item No.
Accessories		
Optional Blower, 135 cfm, For Use with 36FK30	2302	**36FK79**
Optional Blower, 125 cfm, For Use with 36FK29	2303	**36FK78**
Venting For Gas Heaters, 15 in L, For Use with 36FK27, 36FK28, 36FK30, 36FK31	9301	**36FK81**

Find Portable Gas Patio Heaters on page 3082 and on grainger.com.

Dayton®

Suspended Infrared Gas Wall & Ceiling Patio Heaters

21MK93

- Ignition type: direct spark
- Stainless steel housing

Heaters warm outdoor areas like patios, porches, shopping areas, and pathways. They suspend from the ceiling with included brackets or mount on the wall. Infrared heating warms people directly instead of the ambient air.

Heating Capacity Input	Min. Mounting Height	Floor Coverage @ Min. Mounting Height	Housing Color	Overall Height	Overall Width	Overall Depth	Item No.
Natural Gas							
34,000 BtuH	8 ft	8 x 8 ft	Silver	10 ⅞ in	9 in	48 ⅜ in	**21MK93**
Propane							
34,000 BtuH	8 ft	8 x 8 ft	Silver	10 ⅞ in	9 in	48 ⅜ in	**21MK94**

3E134

Dayton®

Suspended Infrared Flat Panel Gas Ceiling Heaters

- Ignition type: direct spark
- Indoor use only

Commonly used to heat factories, warehouses, auto service garages, ice rinks, and other areas. Infrared heating warms people instead of the ambient air.

Heating Capacity Input	Min. Mounting Height	Floor Coverage @ Min. Mounting Height	Clearance to Combustibles - Top x Below x Sides	Overall Width	FUEL TYPE - CONTROL VOLTAGE: Natural Gas 120 V AC Item No.	Natural Gas 24 V AC Item No.	Propane 120 V AC Item No.	Propane 24 V AC Item No.
Heaters, 22 ½ in H x 15 ¼ in D, ½ in NPT Connection								
30,000 BtuH	9 to 10 ft	10 ft x 10 ft	28 in x 72 in x 30 in	12 ¾ in	**3E132**	**5VD61**	**3E460**	**5VD62**
60,000 BtuH	12 to 14 ft	16 ft x 16 ft	40 in x 72 in x 32 in	19 ⅛ in	**3E133**	**5VD63**	**3E461**	**5VD64**
90,000 BtuH	16 to 18 ft	20 ft x 20 ft	42 in x 98 in x 48 in	26 ⅝ in	**3E134**	**5VD65**	**3E462**	**5VD66**

Description	For Use With	Item No.
Replacement Parts		
3 Prong Electrode	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), 5VD61 to 5VD66	**1FEK9**
Circuit Board, 120V	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), Note: Requires 1FEK4	**1FEK3**
Circuit Board, 24V	5VD61 to 5VD66, Note: Requires 1FEK8	**1FEK6**
High Intensity Rayhead	3E132 to 3E134, 3E461, 3E462, 5VD61, 5VD63 to 5VD66	**1FEL1**
High Voltage Wire	3E132E, 3E133E, 3E134E, 3E460C, 3E461C, 3E462C, 5VD61A, 5VD62A, 5VD63A, 5VD64A, 5VD65A, 5VD66A	**24KR77**
Natural Gas Valve, 120V	3E132 to 3E134 (C, D, E)	**1FEK1**
Natural Gas Valve, 24V	5VD61, 5VD63, 5VD65 (All Models)	**1FEK5**
Propane Gas Valve, 120V	3E460 to 3E462 (B, C)	**1FEK2**
Propane Gas Valve, 24V	5VD62, 5VD64, 5VD66 (All Models)	**1FEK7**
Wiring Harness, 120 Volts, 120V	3E132 to 3E134 (C, D, E), 3E460 to 3E462 (B, C), (Mates to 1FEK3)	**1FEK4**
Wiring Harness, 24 Volts	5VD61 to 5VD66 (Mates to 1FEK6)	**1FEK8**

7D839

Dayton®

Suspended Infrared Tube Gas Ceiling Heaters

- Ignition type: hot surface
- Indoor use only

Heaters use either inside or outside air for combustion, and can also be installed vented or unvented. Commonly used to heat factories, warehouses, aircraft hangars, auto service garages, and other large areas.

Heating Capacity Input	Radiant Tube Length	Min. Mounting Height	Floor Coverage @ Min. Mounting Height	Clearance to Combustibles 0° - Top x Below x Sides	Clearance to Combustibles 45° - Top x Below x Sides	Overall Depth	FUEL TYPE: Natural Gas Item No.	Propane Item No.
Heaters, 8 ½ in H x 18 ⅛ in W, ½ in NPT Connection								
50,000 BtuH	20 ft	10 ft	20 ft x 20 ft	6 in x 47 in x 9 in x 9 in	10 in x 47 in x 39 in x 8 in	21 ⅝ ft	**7D837**	**7D838**
75,000 BtuH	20 ft	13 ft	26 ft x 20 ft	6 in x 60 in x 9 in x 9 in	10 in x 60 in x 39 in x 8 in	21 ⅝ ft	**7D839**	**7D840**
100,000 BtuH	30 ft	15 ft	30 ft x 30 ft	6 in x 66 in x 14 in x 14 in	10 in x 66 in x 39 in x 8 in	31 5⁄16 ft	**7D841**	**7D842**
	40 ft	15 ft	30 ft x 40 ft	6 in x 66 in x 14 in x 14 in	10 in x 66 in x 39 in x 8 in	41 ft	**7D843**	**7D844**
125,000 BtuH	40 ft	15 ft	30 ft x 40 ft	6 in x 76 in x 20 in x 20 in	10 in x 76 in x 58 in x 8 in	41 ft	**7D845**	**7D846**
150,000 BtuH	40 ft	16 ft	32 ft x 40 ft	6 in x 81 in x 24 in x 24 in	10 in x 81 in x 58 in x 8 in	41 ft	**7D847**	**7D848**
	50 ft	15 ft	30 ft x 50 ft	6 in x 81 in x 24 in x 24 in	10 in x 81 in x 58 in x 8 in	50 ⅝ ft	**7AR80**	**7AR79**
	60 ft	16 ft	32 ft x 60 ft	6 in x 81 in x 24 in x 24 in	10 in x 81 in x 58 in x 8 in	60 5⁄16 ft	**7D849**	**7D851**
175,000 BtuH	50 ft	17 ft	34 ft x 50 ft	6 in x 92 in x 34 in x 34 in	10 in x 92 in x 63 in x 8 in	50 ⅝ ft	**7AR83**	**7AR81**
	60 ft	17 ft	34 ft x 60 ft	6 in x 92 in x 34 in x 34 in	10 in x 92 in x 63 in x 8 in	60 5⁄16 ft	**7AR84**	**7AR82**
200,000 BtuH	50 ft	18 ft	36 ft x 50 ft	6 in x 94 in x 41 in x 41 in	10 in x 94 in x 63 in x 8 in	50 ⅝ ft	**7AR87**	**7AR85**
	60 ft	18 ft	36 ft x 60 ft	6 in x 94 in x 41 in x 41 in	10 in x 94 in x 63 in x 8 in	60 5⁄16 ft	**7AR88**	**7AR86**

Description	Item No.
Accessories	
Aluminum Heat Reflector "U", Covers No. 3F835, Includes (3) Reflector Pieces, Assembly Hardware	**5VD84**
Aluminum Heat Reflector Elbow, Covers No. 3TZ71 L-Bend Fitting, Includes (2) Reflector Pieces, Assembly Hardware	**5VD83**
Angle Mounting Bracket (1), for Presetting Reflector Angles at 15°, 30°, or 45°	**5VD54**
Direct Vent Unvented Outlet Cap, 4" O.D. with Flapper	**3F839**
Dual Sidewall Venting, (Includes 18 in B Vent and B to C Adapter, 6 in Side Wall Vent Cap, 6 in Wall Thimble); Common Venting	**2F211**
Sidewall or Roof Vent Accessory, 4" O.D. with Vent Elbow, Max. 2/Heater	**3TZ71**
Sidewall Outside Air Inlet Cap, 4" O.D. with Bird Screen	**3F837**
Sidewall Venting, (Includes 18 in B Vent and B to C Adapter, 4 in Wall Thimble, A 4 in Side Wall Vent Cap); Single Venting	**2C448**
Tube/Reflector Extension, Includes (1) Wire Hangers, 10 ft Tube with Black Coating, Reflector, Tube Clamp, Max. 1/Heater	**3VH27**
Tube/Reflector Extension, Includes 5 Feet Tube with Black Coating, Reflector, Tube Clamp, Wire Hanger, Max. 1/Heater	**5VD87**
U-Bend Fitting, Includes 4 in Diameter Fitting with Tube Clamp, Mounting Materials, Max. 1/Heater	**3F835**

Kickspace Hydronic Heaters

Beacon/Morris

- 115V AC

These units don't take up floorspace, so they can be used for heating crowded or small spaces. Heaters use fan-forced heating to blow warm air out into the room. They install out of the way in the kickplate under cabinets. They may also be converted for in-floor or wall mounting.

4E448

Max. Heat @ 2 gpm Flow @ 180°F Water Temp.	Pipe Connec. Type	Air Flow	Rough-In Dim. - H x W x D	Overall Height	Overall Width*	Overall Depth	Mfr. Model	Item No.
4,375 BtuH	½ in, Non-Threaded	53 cfm	4 in x 12 ¾ in x 12 ¼ in	4 in	12 ¼ in	12 ¾ in	K42	**4E448**
8,650 BtuH	½ in, Non-Threaded	103 cfm	4 in x 12 ¾ in x 12 ¼ in	4 in	19 ¼ in	12 ¾ in	K84	**4E449**

** Width includes an additional 2" clearance to combustible materials per UL requirements.*

In-Floor & Wall Cabinets for Kickspace Hydronic Heaters

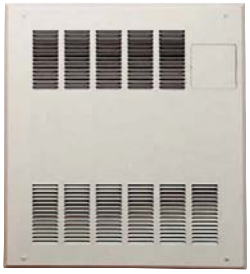
Beacon/Morris

- White finish

Cabinets allow kickspace heaters to be converted for flush or surface wall mounting or in-floor installation as space or heating needs change.

Compatible Grainger Part No.	Rough-In Dim. - H x W x D	Overall Height	Overall Width	Overall Depth	Mfr. Model	Item No.
Recessed Floor-Mount						
4E448	14 7/16 in x 14 7/16 in x 11 in	15 7/8 in	14 7/16 in	11 in	FK42	**5E314**
4E449	21 7/16 in x 14 7/16 in x 11 in	23 7/8 in	14 7/16 in	11 in	FK84	**5E315**
Recessed Wall-Mount						
4E448	22 1/8 in x 14 in x 4 in	25 in	16 in	½ in	W42	**4E450**
4E449	22 1/8 in x 21 in x 4 in	25 in	23 in	½ in	W84	**4E451**
Surface Wall-Mount						
4E448	23 7/8 in x 17 7/8 in x 4 3/8 in	24 in	18 in	4 3/8 in	F42	**4E452**
4E449	23 7/8 in x 21 7/8 in x 4 3/8 in	24 in	22 in	4 3/8 in	F84	**4E453**

5E314



4E450

4E452

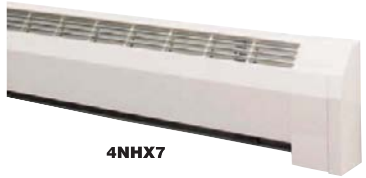
Assembled Hydronic Baseboard Heaters

CLASSIC BASEBOARD

- Heater cabinet and element included
- White cabinet and trim

Ready-to-install heaters are placed along the base of the wall where it meets the floor and produce whole-house heating or warm smaller spaces. Heaters feature back panel, support brackets, and element slide cradles.

Note: 5-, 6-, and 8-ft. lengths include joining piece sets. Trim and finishing components sold separately.



4NHX7

Length	Max. Heat/Linear Ft. @ 180 F Water Temp.	Overall Length	Overall Height	Overall Depth	Mfr. Model	Item No.
Assembled Heaters (Elements have Aluminum Fins, Copper ¾ in Tube, SWT)						
2 ft	800 BtuH	24 ¾ in	9 1/8 in	3 3/8 in	CLCU75-2	**4NHY4**
3 ft	800 BtuH	36 ¾ in	9 1/8 in	3 3/8 in	CLCU75-3	**4NHY3**
4 ft	800 BtuH	48 ¾ in	9 1/8 in	3 3/8 in	CLCU75-4	**4NHY2**
5 ft	800 BtuH	60 ¾ in	9 1/8 in	3 3/8 in	CLCU75-5	**4NHY1**
6 ft	800 BtuH	72 ¾ in	9 1/8 in	3 3/8 in	CLCU75-6	**4NHX9**
7 ft	800 BtuH	84 ¾ in	9 1/8 in	3 3/8 in	CLCU75-7	**4NHX8**
8 ft	800 BtuH	96 ¾ in	9 1/8 in	3 3/8 in	CLCU75-8	**4NHX7**

Description	Mfr. Model	Item No.
Trim & Finishing Components		
Inside Corner 90°, 5" L x 7 ¼" H x 6" D	CL-IC	**4NHX4**
Left Hand Hinged End Cap, 4" L x 9" H x 3 ½" D	CL-LEC	**4NHX3**
Left Hand Solid End Cap, 3" L x 9" H x 3 ½" D	CL-3LEC	**4NHX1**
Outside Corner 90°, 5" L x 7" H x 7" D	CL-OC	**4NHX5**
Right Hand Hinged End Cap, 4" L x 9" H x 3 ½" D	CL-REC	**4NHX2**
Right Hand Solid End Cap, 3" L x 9" H x 3 ½" D	CL-3REC	**4NHW9**
Wall Trim, 4" L x 9" H x 2 ½" D	CL-WJ	**4NHX6**

Hydronic Baseboard Heater Cabinets & Elements

Beacon/Morris

- Order heater cabinet and element separately
- Beige cabinet and trim

Cabinets cover the heating element and have a sloped top that prevents blocking the louvers, allowing warm air to flow freely. Elements are paired with cabinets and used as part of a custom heater installation. They are suitable for hot water or steam heating systems.

Note: Trim and finishing components sold separately.

5E295

Length	Compatible Grainger Part No.	Includes	Mfr. Model	Item No.
Heater Cabinets, 14 in H x 5 5/16 in D, Fits Single Row of Elements				
3 ft	5E301, 5E305	(1) Front Panel, (1) Partial Backplate, (1) Top Panel, (2) Adjustable Hangers with Hardware, (2) Brackets, (2) Slide Cradles	TP14-03	**5E295**
4 ft	5E302, 5E306		TP14-04	**5E296**
5 ft	5E303, 5E307		TP14-05	**5E297**
6 ft	5E304, 5E308		TP14-06	**5E298**
7 ft	5E301 & 5E302, 5E305 & 5E306	(1) Front Panel, (1) Partial Backplate, (1) Top Panel, (3) Adjustable Hangers with Hardware, (3) Brackets, (3) Slide Cradles	TP14-07	**5E299**
8 ft	(2) 5E302, (2)5E306, 5E301 & 5E303, 5E305 & 5E307		TP14-08	**5E300**
Heater Cabinets, 20 in H x 5 5/16 in D, Fits Double Row of Elements				
3 ft	5E301, 5E305	(1) Front Panel, (1) Partial Backplate, (1) Top panel, (2) Brackets, (4) Adjustable Hangers with Hardware, (4) Slide Cradles	TP20-03	**4LX69**
4 ft	5E302, 5E306		TP20-04	**4LX70**
5 ft	5E303, 5E307		TP20-05	**4LX71**
6 ft	5E304, 5E308		TP20-06	**4LX72**
7 ft	5E301 & 5E302, 5E305 & 5E306	(1) Front Panel, (1) Partial Backplate, (1) Top panel, (3) Brackets, (6) Adjustable Hangers with Hardware, (6) Slide Cradles	TP20-07	**4LX73**
8 ft	(2) 5E302, (2)5E306, 5E301 & 5E303, 5E305 & 5E307		TP20-08	**4LX74**

Length	Output @ 2 PSI Steam	Max. Heat/ Linear ft. @ 180°F Water Temp.	Max. Heat/ Linear ft. @ 200°F Water Temp.	Max. Fluid Temp.	Overall Length	Overall Height	Overall Depth	Mfr. Model	Item No.
Heater Elements with Aluminum Fins, 1 ¼ in Copper Tube									
3 ft				300 °F	3 ft	3 5/8 in	4 ¼ in	STC14353-03	**5E301**
4 ft	2,130 BtuH,	1,470 BtuH,	1,830 BtuH,	300 °F	4 ft	3 5/8 in	4 ¼ in	STC14354-04	**5E302**
5 ft	2,510 BtuH	1,730 BtuH	2,160 BtuH	300 °F	5 ft	3 5/8 in	4 ¼ in	STC14355-05	**5E303**
6 ft				650 °F	6 ft	3 5/8 in	4 ¼ in	STC14356-06	**5E304**
Heater Elements with Steel Fins, 1 ¼ in Steel Tube									
3 ft				650 °F	3 ft	4 ¼ in	4 ¼ in	ST1443-03	**5E305**
4 ft	1,600 BtuH,	1,080 BtuH,	1,350 BtuH,	650 °F	4 ft	4 ¼ in	4 ¼ in	ST1444-04	**5E306**
5 ft	2,250 BtuH	1,640 BtuH	2,040 BtuH	650 °F	5 ft	4 ¼ in	4 ¼ in	ST1445-05	**5E307**
6 ft				650 °F	6 ft	4 ¼ in	4 ¼ in	S144032-0600	**5E308**

Description	FOR CABINETS 14 in H Mfr. Model	FOR CABINETS 14 in H Item No.	FOR CABINETS 20 in H Mfr. Model	FOR CABINETS 20 in H Item No.
Trim & Finishing Components				
Inside Corner 90°, 16 ¾ in L	TP14-IC90	**5E311**	TP20-IC90	**4LX77**
Left Hand Solid End Cap, 3 in L	TP14-EC3L	**5E309**	TP20-EC3L	**4LX75**
Outside Corner 90°, 16 ¾ in L	TP14-OC90	**5E312**	TP20-OC90	**4LX78**
Right Hand Solid End Cap, 3 in L	TP14-EC3R	**5E310**	TP20-EC3R	**4LX76**
Wall Sleeve, 4 in L	TP14-WS4	**5E313**	TP20-WS4	**4LX79**

Suspended Horizontal Hydronic Wall & Ceiling Unit Heaters

Dayton

Heaters push heated air horizontally and spread it across a larger area than vertical units. Air flow is directed by manually-adjustable louver blades. They are suitable for use in heating warehouses, manufacturing facilities, garages, and other large, open, nonexplosive, noncorrosive areas.

Water-Only, Serpentine Coil

Steam or Water, Header Coil Type

Output @ 200°F Water	Output @ 2 psi Steam	Connec. Size	Air Flow	Overall Height	Overall Width	Overall Depth	Mounting Height	OSHA COMPLIANT GUARD Item No.	STANDARD GUARD Item No.	OPTIONAL VERTICAL LOUVER KIT Item No.
For Steam or Water Systems, Threaded Female NPT Connection, Header Coil Type										
13,050 BtuH	18,000 BtuH	1 ¼ in	395 cfm	15 in	14 ⅝ in	9 ⅜ in	8 ft	**5PV31**	—	**5ZKC0**
17,400 BtuH	24,000 BtuH	1 ¼ in	450 cfm	18 in	14 ⅝ in	9 ⅜ in	8 ft	**3DUF7**	—	**5ZKC1**
26,100 BtuH	36,000 BtuH	1 ¼ in	550 cfm	18 in	14 ⅝ in	9 ⅜ in	9 ft	**5PV43**	—	**5ZKC2**
34,800 BtuH	48,000 BtuH	1 ¼ in	750 cfm	20 ½ in	17 ⅛ in	11 7⁄16 in	9 ft	**5PV46**	—	**5ZKC3**
43,600 BtuH	60,000 BtuH	1 ¼ in	900 cfm	20 ½ in	17 ⅛ in	10 15⁄16 in	10 ft	**5PV48**	**5PV47**	**5ZKC4**
52,300 BtuH	72,000 BtuH	1 ¼ in	1,100 cfm	21 ¾ in	18 ⅜ in	11 1⁄16 in	10 ft	**5PV50**	**5PV49**	**5ZKC5**
61,000 BtuH	84,000 BtuH	1 ¼ in	1,400 cfm	24 ¼ in	20 ⅞ in	11 13⁄16 in	10 ft	**5PV51**	**5YH20**	**5ZKC6**
69,700 BtuH	96,000 BtuH	1 ½ in	1,400 cfm	24 in	19 ⅝ in	13 13⁄16 in	11 ft	**5PV53**	**5PV52**	**5ZKC7**
78,400 BtuH	108,000 BtuH	1 ½ in	1,800 cfm	24 in	19 ⅝ in	13 13⁄16 in	11 ft	**5PV16**	**5PV15**	**5ZKC8**
87,100 BtuH	120,000 BtuH	1 ½ in	1,900 cfm	25 ¼ in	20 ⅞ in	13 in	12 ft	**5PV20**	**5YH19**	**5ZKC9**
95,800 BtuH	132,000 BtuH	1 ½ in	2,000 cfm	27 ¾ in	23 ⅜ in	14 in	13 ft	**5PV24**	**5PV23**	**5ZKD0**
104,000 BtuH	144,000 BtuH	1 ½ in	2,200 cfm	27 ¾ in	23 ⅜ in	14 in	13 ft	**5PV28**	**5PV27**	**5ZKD1**
113,000 BtuH	156,000 BtuH	1 ½ in	2,600 cfm	27 ¾ in	23 ⅜ in	13 ¾ in	13 ft	**5PV30**	**5PV29**	**5ZKD2**
118,000 BtuH	180,000 BtuH	1 ½ in	2,200 cfm	29 in	24 ⅝ in	13 ¾ in	13 ft	**5PV33**	**5PV32**	**5ZKD3**
148,000 BtuH	204,000 BtuH	1 ½ in	2,900 cfm	29 in	24 ⅝ in	13 ¾ in	13 ft	**5PV35**	**5PV34**	**5ZKD4**
174,000 BtuH	240,000 BtuH	2 in	3,500 cfm	30 ¼ in	27 ⅞ in	14 in	14 ft	**1EBC1**	**4NHG4**	**5ZKD5**
209,100 BtuH	280,000 BtuH	2 in	4,200 cfm	30 ¼ in	27 ⅞ in	17 ¾ in	14 ft	**1EBC2**	**4NHG5**	**5ZKD6**
230,000 BtuH	300,000 BtuH	2 in	5,000 cfm	37 ¾ in	33 ⅜ in	18 ⅝ in	15 ft	**1EBC3**	**4NHG6**	**5ZKD7**
261,300 BtuH	360,000 BtuH	2 in	5,500 cfm	37 ¾ in	33 ⅜ in	18 ⅝ in	15 ft	**1EBC4**	**5PV45**	**5ZKD8**
For Water Systems, SWT on Connection, Serpentine Coil Type										
8,030 BtuH	—	⅜ in	245 cfm	16 in	18 in	9 ½ in	8 ft	**5YH18**	—	**5ZKD9**
18,400 BtuH	—	⅜ in	500 cfm	16 in	18 in	9 ½ in	8 ft	**5PV19**	—	**5ZKE0**
24,800 BtuH	—	⅜ in	580 cfm	16 in	18 in	9 ½ in	9 ft	**5PV22**	—	**5ZKE1**
35,900 BtuH	—	⅜ in	850 cfm	18 ½ in	20 ½ in	10 15⁄16 in	9 ft	**5PV26**	—	**5ZKE2**

Suspended Vertical Hydronic Wall & Ceiling Unit Heaters

Dayton

Vertical Hydronic Heater

OSHA Fan Guard

Discharge Diffuser

Vertical heaters push heated air downward to the floor where it's needed most. They suspend from walls or ceilings and heat large spaces. Fan guard sold separately.

Accessories—Discharge diffusers help direct the discharge to the floor. OSHA guard and diffuser cannot be mounted on the same unit.

Compatible Grainger Part No.	OSHA FAN GUARD Item No.	DISCHARGE DIFFUSER Item No.
Accessories		
5PV54, 5PV55	**5PV69**	**5PV75**
5PV56, 5PV57, 5PV58	**5PV70**	**5PV76**
5PV59, 5PV60, 5PV61, 5PV62	**5PV71**	**5PV77**
5PV63	**5PV72**	**5PV78**
5PV64, 5PV65, 5PV67	**5PV73**	**5PV79**
5PV66, 5PV68	**5PV74**	**5PV80**

Output @ 200°F Water	Output @ 2 psi Steam	Connec. Size	Air Flow	Overall Height	Overall Width	Overall Depth	Mounting Height	Item No.
For Steam or Water Systems, Threaded Male NPT Connection, Rectangular Coil Type								
22,700 BtuH	41,300 BtuH	1 ½ in	595 cfm	10 ⅝ in	18 ¼ in	18 ¼ in	11 ft	**5PV63**
39,600 BtuH	65,500 BtuH	1 ½ in	989 cfm	11 ⅛ in	21 ¼ in	21 ¼ in	12 ft	**5PV66**
48,400 BtuH	80,600 BtuH	1 ½ in	1,200 cfm	11 ⅝ in	21 ¼ in	21 ¼ in	15 ft	**5PV68**
68,300 BtuH	101,800 BtuH	1 ½ in	1,490 cfm	12 ⅛ in	25 ¼ in	25 ¼ in	14 ft	**5PV54**
83,700 BtuH	124,400 BtuH	1 ½ in	1,790 cfm	12 ¾ in	25 ¼ in	25 ¼ in	16 ft	**5PV55**
105,200 BtuH	152,000 BtuH	2 in	2,220 cfm	13 ⅝ in	29 ½ in	29 ½ in	16 ft	**5PV56**
118,600 BtuH	173,000 BtuH	2 in	2,620 cfm	14 ⅛ in	29 ½ in	29 ½ in	18 ft	**5PV57**
139,700 BtuH	210,200 BtuH	2 in	3,200 cfm	16 in	29 ½ in	29 ½ in	22 ft	**5PV58**
180,100 BtuH	249,800 BtuH	2 in	4,180 cfm	15 ⅛ in	37 ½ in	37 ½ in	20 ft	**5PV59**
205,400 BtuH	283,800 BtuH	1 ½ in	4,430 cfm	15 ¼ in	37 ½ in	37 ½ in	21 ft	**5PV60**
242,900 BtuH	333,400 BtuH	2 in	5,210 cfm	16 ¾ in	37 ½ in	37 ½ in	24 ft	**5PV61**
280,800 BtuH	386,000 BtuH	2 in	6,140 cfm	17 ⅝ in	37 ½ in	37 ½ in	28 ft	**5PV62**
368,100 BtuH	496,000 BtuH	2 ½ in	8,020 cfm	17 ¼ in	42 in	42 in	29 ft	**5PV64**
431,100 BtuH	585,000 BtuH	2 ½ in	9,450 cfm	20 ¾ in	42 in	42 in	34 ft	**5PV65**
519,400 BtuH	705,000 BtuH	2 ½ in	11,000 cfm	24 ¼ in	42 in	42 in	38 ft	**5PV67**

Gas-Fired Whole-House Hot Water & Steam Boilers

Crown Boiler · RBI

These units use natural gas or propane to provide hot water or steam for heating. They are gravity vented and require connection to an exhaust pipe or chimney to release fumes. Boilers provide the primary source of heat throughout a house.

5RJR2

6DKG1

AHRI Net BtuH	Heating Capacity Output	AFUE	Series	Vent Dia.	Overall Height	Overall Width	Overall Depth	Brand*	NATURAL GAS Mfr. Model	NATURAL GAS Item No.	PROPANE Mfr. Model	PROPANE Item No.
Hot Water Heating Method												
47,000 BtuH	54,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	12 ¾ in	26 ½ in	Crown	—	—	BWF063BLT3SU0	**780U18**
50,000 BtuH	60,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	12 ¾ in	26 ½ in	Crown	BWF070BNT3SU0	**780U21**	—	—
51,000 BtuH	59,000 BtuH	84 %	Aruba 5	4 in	39 ½ in	12 ⅞ in	31 ½ in	Crown	AWR070BNT3SU1	**6DKG2**	AWR070BLT3SU1	**6DKG1**
70,000 BtuH	81,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	15 ½ in	24 ⅝ in	Crown	—	—	BWF094BLT3SU0	**780U19**
73,000 BtuH	82,000 BtuH	82 %	Spectrum	5 in	32 in	16 ⅛ in	25 ¼ in	RBI	33SW0100N0E1A0GA9056G1J2	**5RJR2**	—	—
77,000 BtuH	88,000 BtuH	84 %	Aruba 5	5 in	39 ½ in	15 ⅜ in	31 ½ in	Crown	AWR105BNT3SU1	**6DKG4**	AWR105BLT3SU1	**6DKG3**
78,000 BtuH	90,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	15 ½ in	26 ½ in	Crown	BWF105BNT3SU0	**780U22**	—	—
94,000 BtuH	108,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	26 ½ in	26 ½ in	Crown	—	—	BWF126BLT3SU0	**780U20**
102,000 BtuH	117,000 BtuH	84 %	Aruba 5	6 in	39 ½ in	18 ½ in	31 ½ in	Crown	AWR140BNT3SU1	**6DKG6**	AWR140BLT3SU1	**6DKG5**
104,000 BtuH	120,000 BtuH	85 %	Bali 2 (BWF)	3 in	37 ¾ in	15 ½ in	26 ½ in	Crown	BWF140BNT3SU0	**780U23**	—	—
109,000 BtuH	123,000 BtuH	82 %	Spectrum	5 in	32 in	19 ½ in	25 ¼ in	RBI	33SW0150N0E1A0GA9056G1J2	**5RJR3**	—	—
144,000 BtuH	163,000 BtuH	82 %	Spectrum	5 in	32 in	22 ⅞ in	25 ¼ in	RBI	33SW0200N0E1A0GA9056G1J2	**5RJR4**	—	—
182,000 BtuH	205,000 BtuH	82 %	Spectrum	5 in	32 in	26 ¼ in	25 ¼ in	RBI	33SW0250N0E1A0GA9056G1J2	**5RJR5**	—	—
214,000 BtuH	247,000 BtuH	82 %	Spectrum	5 in	32 in	29 ⅝ in	25 ¼ in	RBI	33SW0300N0E1A0GA9056G1J2	**5RJR6**	—	—
248,000 BtuH	286,000 BtuH	82 %	Spectrum	5 in	32 in	33 in	25 ¼ in	RBI	33SW0350N0E1A0GA9061G1J2	**5RJR7**	—	—
282,000 BtuH	324,000 BtuH	81 %	Spectrum	5 in	32 in	36 ⅜ in	25 ¼ in	RBI	33SW0400N0E1A0GA9061G1J2	**5RJR8**	—	—
Steam Heating Method												
64,000 BtuH	85,000 BtuH	82 %	Bermuda	5 in	40 7⁄16 in	16 in	28 in	Crown	BSI103ENPZZPSU	**6DKG8**	BSI103ELPZZPSU	**6DKG7**
85,000 BtuH	113,000 BtuH	82 %	Bermuda	6 in	40 7⁄16 in	19 ¼ in	28 in	Crown	BSI138ENPZZPSU	**6DKH0**	BSI138ELPZZPSU	**6DKG9**
107,000 BtuH	142,000 BtuH	82.1 %	Bermuda	6 in	40 7⁄16 in	22 ½ in	28 in	Crown	BSI172ENPZZPSU	**6DKH2**	BSI172ELPZZPSU	**6DKH1**

** Crown = Crown Boiler Co.*

Oil-Fired Whole-House Hot Water & Steam Boilers

Crown Boiler

Boilers are a primary source of heat for homes. They use oil as a fuel source to produce hot water or steam for heating.

6DKJ3

AHRI Net BtuH	Heating Capacity Output	AFUE	Return/ Supply Connec.	Series	Vent Dia.	Overall Height	Overall Width	Overall Depth	WITHOUT COIL Mfr. Model	WITHOUT COIL Item No.	WITH DOMESTIC TANKLESS COIL Mfr. Model	WITH DOMESTIC TANKLESS COIL Item No.
Hot Water Heating Method												
84,000 BtuH	97,000 BtuH	86.3 %	1 ½ in / 1 ½ in	Freeport 2 FWZ	5 in	31 ½ in	20 ¾ in	16 ¼ in	FWZ080BOLT1SSU	**6DKJ3**	—	—
106,000 BtuH	122,000 BtuH	86.3 %	1½ x 1½ in	Tobago (TWB)	—	31 ⅝ in	17 ⅜ in	24 ⅝ in	TWB100ZOLT4SSU0	**780U24**	TWB100ZOTT4SSU0	**780U28**
107,000 BtuH	123,000 BtuH	87 %	1 ½ in / 1 ½ in	Freeport 2 FWZ	6 in	31 ½ in	20 ¾ in	22 ¼ in	FWZ100BOLT1SSU	**6DKJ4**	—	—
158,000 BtuH	182,000 BtuH	86 %	1½ x 1½ in	Tobago (TWB)	—	31 ⅝ in	22 ⅜ in	24 ⅝ in	TWB150ZOLT4SSU0	**780U32**	TWB150ZOTT4SSU0	**780U34**
Steam Heating Method												
91,000 BtuH	121,000 BtuH	85 %	3 x 1½ in	Kingston (KSB)	—	31 ⅝ in	17 ⅜ in	24 ⅝ in	KSB100ZOLP1SSU0	**780U38**	KSB100ZOTP1SSU0	**780U36**
181,000 BtuH	181,000 BtuH	85.1 %	3 x 1½ in	Kingston (KSB)	—	31 ⅝ in	22 ⅜ in	24 ⅝ in	KSB150ZOLP1SSU0	**780U42**	KSB150ZOTP1SSU0	**780U40**

Goodman Air Conditioning & Heating

Whole-House Gas Furnaces

Commonly used to heat multi-family homes and have a 96% or 80% Annual Fuel Utilization Efficiency (AFUE) rating. For use in new installations and to replace existing furnaces of similar BtuH output. Find additional accessories on Grainger.com.

96% AFUE Furnaces—Turn up to 96% of their fuel into usable heat while losing 4% through exhaust. Secondary heat exchanger helps recover lost heat and provides better fuel efficiency. Often used in areas with harsh winters and where local code requires higher-efficiency furnaces.

80% AFUE Furnaces—Turn up to 80% of their fuel into usable heat while losing 20% through exhaust. They have a single heat exchanger.

Heating Capacity Input	Heating Capacity Output	Air Flow	Avail. Cooling Tons	Overall Width	Mfr. Model	Item No.
96 % AFUE, Upflow Furnace, 34 ½ in H X 28 ¾ in D						
40,000 BtuH	38,440 BtuH	1,342 cfm	3 ton	14 in	GM9S960403AN	**792XW4**
60,000 BtuH	57,660 BtuH	1,427 cfm	3 ton	17 ½ in	GM9S960603BN	**792XW5**
60,000 BtuH	57,660 BtuH	1,427 cfm	3 ton	17 ½ in	GM9S960803BN	**792XW6**
80,000 BtuH	76,880 BtuH	1,952 cfm	4 ton	21 in	GM9S960804CN	**792XW7**
80,000 BtuH	76,880 BtuH	2,068 cfm	5 ton	21 in	GM9S960805CN	**792XW8**
100,000 BtuH	96,100 BtuH	2,161 cfm	5 ton	21 in	GM9S961005CN	**792XW9**
120,000 BtuH	115,320 BtuH	2,454 cfm	5 ton	24 ½ in	GM9S961205DN	**792XX0**
96 % AFUE, Downflow Furnace, 34 ½ in H X 28 ¾ in D						
40,000 BtuH	38,440 BtuH	1,382 cfm	3 ton	17 ½ in	GC9S960403BN	**792XX1**
60,000 BtuH	57,660 BtuH	1,468 cfm	3 ton	17 ½ in	GC9S960603BN	**792XX2**
80,000 BtuH	76,880 BtuH	1,991 cfm	4 ton	21 in	GC9S960804CN	**792XX3**
100,000 BtuH	95,000 BtuH	2,193 cfm	5 ton	21 in	GC9S961005CN	**792XX4**
120,000 BtuH	114,000 BtuH	2,257 cfm	5 ton	24 ½ in	GC9S961205DN	**792XX5**
80 % AFUE, Upflow Furnace, 33 ⅜ in H X 28 in D						
40,000 BtuH	32,000 BtuH	1,200 cfm	3 ton	14 in	GM9S800403AX	**793G41**
40,000 BtuH	32,000 BtuH	1,417 cfm	3 ton	14 in	GM9S800403AN	**792XX6**
60,000 BtuH	48,000 BtuH	1,200 cfm	3 ton	14 in	GM9S800603AX	**793G42**
60,000 BtuH	48,000 BtuH	1,492 cfm	3 ton	14 in	GM9S800603AN	**792XX7**
60,000 BtuH	48,000 BtuH	1,600 cfm	4 ton	17 ½ in	GM9S800604BX	**793G43**
60,000 BtuH	48,000 BtuH	1,790 cfm	4 ton	17 ½ in	GM9S800604BN	**792XX8**
80,000 BtuH	64,000 BtuH	1,600 cfm	4 ton	17 ½ in	GM9S800804BX	**793G39**
80,000 BtuH	64,000 BtuH	1,853 cfm	4 ton	17 ½ in	GM9S800804BN	**792XX9**
80,000 BtuH	64,000 BtuH	2,000 cfm	5 ton	21 in	GM9S800805CX	**793G44**
80,000 BtuH	64,000 BtuH	2,110 cfm	5 ton	21 in	GM9S800805CN	**792XY0**
100,000 BtuH	80,000 BtuH	2,000 cfm	5 ton	21 in	GM9S801005CX	**793G40**
100,000 BtuH	80,000 BtuH	2,116 cfm	5 ton	21 in	GM9S801005CN	**792XY1**
120,000 BtuH	96,000 BtuH	2,107 cfm	5 ton	24 in	GM9S801205DN	**792XY2**
80 % AFUE, Downflow Furnace, 33 ⅜ in H X 28 in D						
40,000 BtuH	32,000 BtuH	1,362 cfm	3 ton	14 in	GC9S800403AN	**792XY3**
40,000 BtuH	32,000 BtuH	1,362 cfm	3 ton	14 in	GC9S800403AX	**792XY4**
60,000 BtuH	48,000 BtuH	1,421 cfm	3 ton	14 in	GC9S800603AN	**792XY5**
60,000 BtuH	48,000 BtuH	1,421 cfm	3 ton	14 in	GC9S800603AX	**792XY6**
80,000 BtuH	64,000 BtuH	1,753 cfm	4 ton	17 ½ in	GC9S800804BN	**792XY7**
80,000 BtuH	64,000 BtuH	1,753 cfm	4 ton	17 ½ in	GC9S800804BX	**792XY8**
80,000 BtuH	64,000 BtuH	2,203 cfm	5 ton	21 in	GC9S800805CX	**792XY9**
100,000 BtuH	80,000 BtuH	2,222 cfm	5 ton	21 in	GC9S801005CN	**792XZ0**
100,000 BtuH	80,000 BtuH	2,222 cfm	5 ton	21 in	GC9S801005CX	**792XZ1**

793G39

Description	Mfr. Model	Item No.
Filter Rack, For Goodman Amana Furnaces	EFR01	**38GM56**
Flush-Mount Vent Kit, For Direct Vent Furnace Side Wall Vent Kit, For 2 in and 3 in Vents	0170K00000S	**38GM57**
Flush-Mount Vent Kit, For Direct Vent Furnace Side Wall Vent Kit, For 2 in Vents	0170K00001S	**38GM58**
Gas Low Pressure Switch, For Goodman Amana 90% Plus Furnaces	LPLP03	**38GM59**
Low Pressure Switch, For Goodman Condensers	0130R00000S	**38GM49**
LP Conversion Kit, For Goodman Amana Furnaces	LPM-07	**38GM60**
LP Conversion Kit, For Single Stage Furnaces	LPT-03	**38GM62**
Twinning Kit, For Twinning 2 Goodman Furnaces	FTK04	**38GM61**
Vent Kit, For 80% AFUE 33 in Tall "H" and "S" Model Furnaces Installed In The Upflow Position Only	MVK-01	**38GM63**

Goodman Air Conditioning & Heating

1-Pc. Air Handlers (With Coils) and Electric Heater Kits

Feature a direct-drive multi-speed blower motor, all-aluminum evaporator coil, transformer, and blower time-delay. Multi-position mounting. 44ZA50 has a thermostatic expansion valve (TXV).

38GN01

Nom. Cap. (tons)	H (in.)	W (in.)	Mfr. Model	Item No.
Single Piece Air Handler				
1.5 ton	45 in	17 ½ in	ARUF25B14	**38GN01**
2 ton	45 in	17 ½ in	ARUF29B14	**38GN02**
2.5 ton	45 in	17 ½ in	ARUF31B14	**38GN03**
3 ton	49 in	21 in	ARUF37C14	**38GN04**
3.5 ton	49 in	21 in	ARUF43C14	**38GN05**
4 ton	58 in	24 ½ in	ARUF47D14	**38GN06**
5 ton	58 in	24 ½ in	ARUF61D14	**38GN07**
5 ton	58 in	24 ½ in	ASPT61D14	**44ZA50**

Description	Mfr. Model	Item No.
Heater Kits with Breaker		
5.0 kW	HKSC05XC	**38GN08**
8.0 kW	HKSC08XC	**38GN09**
10.0 kW	HKSC10XC	**38GN10**
15.0 kW	HKSC15XC	**38GN11**
19.0 kW	HKSC19CB	**38GN12**
20.0 kW	HKSC20DB	**38GN13**
25.0 kW	HKSC25DC	**38GN14**

Goodman Air Conditioning & Heating

38GN28

Indoor Evaporator Coils

All aluminum evaporator coils for excellent heat transfer. Include drain pan.

Nom. Cap. (tons)	H (in.)	W (in.)	D (in.)	Liquid Line Size (in.)	Suction Line Size (in.)	Mfr. Model	Item No.
Coils, Requires Piston or TXV							
Cased Coil, Horizontal							
2 ton	14 in	26 in	21 ⅛ in	⅜ ODS	¾ ODS	CHPF1824A6	**38GN28**
2.5 ton	17 ½ in	26 in	21 ⅛ in	⅜ ODS	¾ ODS	CHPF2430B6	**38GN29**
3 ton	17 ½ in	26 in	21 ⅛ in	⅜ ODS	¾ ODS	CHPF3636B6	**38GN30**
3.5 ton	21 in	26 in	21 ⅛ in	⅜ ODS	¾ ODS	CHPF3642D6	**38GN31**
5 ton	24 ½ in	26 in	21 ⅛ in	⅜ ODS	⅞ ODS	CHPF4860D6	**38GN33**
Cased Coil, Upflow/Downflow							
5 ton	30 in	21 in	21 in	⅜ ODS	⅞ ODS	CAPF4860C6	**38GN26**
5 ton	30 in	24 ½ in	21 in	⅜ ODS	⅞ ODS	CAPF4860D6	**38GN27**
Uncased Coil, Upflow/Downflow							
5 ton	30 in	20 in	20 ⅛ in	⅜ ODS	⅞ ODS	CAUF4961C6	**38GN45**
5 ton	30 in	23 in	20 ⅛ in	⅜ ODS	⅞ ODS	CAUF4961D6	**38GN46**

For Use With	Mfr. Model	Item No.
Thermostatic Expansion Valves (TXV)		
1 ½ to 2 ton R4-410A A/C and Heat Pump	TX2N4A	**38GM46**
2 ½ to 3 ton R4-410A A/C and Heat Pump	TX3N4	**38GM47**
4 to 5 ton R4-410A A/C and Heat Pump	TX5N4	**38GM48**

Goodman Air Conditioning & Heating

Condensing Units and Heat Pumps

Factory-installed in-line filter drier.

13 and 14 SEER—Models feature copper tube/aluminum fin coil, brass liquid and suction line valves, and contactor with lug connection.

Heat Pump—Feature a scroll compressor, liquid refrigerant return protection, and service valves with sweat connections and easy-to-access gauge ports. Models are time-initiated and have temperature-terminated defrost control, and contactor with lug connection.

Nom. Cap.	Suction Line Size	H	W	D	Mfr. Model	Item No.
A/C Condenser With Heat Pumps, 14 SEER, R-410A						
1.5 t	¾ in	34 ¼ in	29 in	29 in	GSZ140181	**38GM30**
2 t	¾ in	38 ¼ in	29 in	29 in	GSZ140241	**38GM31**
2.5 t	¾ in	38 ¼ in	29 in	29 in	GSZ140301	**38GM32**
3 t	⅞ in	38 ¼ in	35 ½ in	35 ½ in	GSZ140361	**38GM33**
3.5 t	⅞ in	38 ¼ in	35 ½ in	35 ½ in	GSZ140421	**38GM34**
4 t	⅞ in	38 ¼ in	35 ½ in	35 ½ in	GSZ140481	**38GM35**
5 t	⅞ in	38 ¼ in	35 ½ in	35 ½ in	GSZ140601	**38GM36**
A/C Condensing Units, 13 SEER, R-410A						
1.5 t	¾ in	25 ¾ in	23 in	23 in	GSX130181	**38GM12**
2 t	¾ in	25 ¾ in	23 in	23 in	GSX130241	**38GM13**
2.5 t	¾ in	27 ½ in	26 in	26 in	GSX130301	**38GM14**
3 t	⅞ in	27 ½ in	26 in	26 in	GSX130361	**38GM15**
3.5 t	1 ⅛ in	36 ¼ in	29 in	29 in	GSX130421	**38GM16**
4 t	1 ⅛ in	36 ¼ in	29 in	29 in	GSX130481	**38GM17**
5 t	⅞ in	38 ½ in	35 ½ in	35 ½ in	GSX130601	**38GM18**
A/C Condensing Units, 14 SEER, R-410A						
1.5 t	¾ in	27 ½ in	26 in	26 in	GSX140181	**38GM19**
1.5 t	¾ in	27 ½ in	26 in	26 in	GSX140191	**38GM20**
2 t	¾ in	27 ½ in	26 in	26 in	GSX140251	**38GM22**
2 tons	¾ in	27 ½ in	26 in	26 in	GSX140241	**38GM21**
2.5 t	¾ in	32 ½ in	29 in	29 in	GSX140301	**38GM23**
2.5 t	¾ in	32 ½ in	29 in	29 in	GSX140311	**38GM24**
3 t	⅞ in	32 ½ in	29 in	29 in	GSX140361	**38GM25**
3 t	⅞ in	32 ½ in	29 in	29 in	GSX140371	**38GM26**
3.5 t	⅞ in	36 ¼ in	29 in	35 ½ in	GSX140421	**38GM27**
4 t	1 ⅛ in	36 ¼ in	35 ½ in	35 ½ in	GSX140481	**38GM28**
5 t	1 ⅛ in	38 ¼ in	35 ½ in	35 ½ in	GSX140601	**38GM29**

38GM12

Description	Mfr. Model	Item No.
Accessories		
Anchor Bracket	ABK-20	**38GM37**
Anchor Bracket	ABK-21	**38GM38**
Anti Short-Cycle Kit	ASC01A	**38GM39**
Freeze Thermostat	FSK01A	**38GM43**
Hard-Start Kit, For Use With Heat Pump 1, 2, 3 ton	CSR-U-1	**38GM40**
Hard-Start Kit, For Use With Heat Pump 3 ½ to 4, 5 ton	CSR-U-2	**38GM41**
Hard-Start Kit, For Use With Heat Pump 4 to 5 ton	CSR-U-3	**38GM42**
Thermostat, For Goodman Cooling & Heat Pump	OT18-60A	**38GM51**
Thermostat and Emergency Relay, For Goodman Heat Pump	OT/EHR18-60	**38GM52**
TXV, For Use With 1 ½ to 2 ton R4-410A A/C and Heat Pump	TX2N4A	**38GM46**
TXV, For Use With 2 ½ to 3 ton R4-410A A/C and Heat Pump	TX3N4	**38GM47**
TXV, For Use With 4 to 5 ton R4-410A A/C and Heat Pump	TX5N4	**38GM48**

6JJK8

31TP30

414X14

Duct-Mount Humidifiers

Honeywell Home | Aprilaire | White-Rodgers | BestAir Pro

Add moisture to indoor air to make the space feel warmer, minimize static shocks, and help prevent wood surfaces from drying out. For use in office buildings, homes, and warehouses.

Bypass—Allow warm air from a building's furnace to pass over the humidifiers' water tray, and the air absorbs the water.

Fan-Powered—Use a fan to push air across the humidifiers' water tray allowing the air to absorb the water. Add more moisture to indoor air and can fit into smaller spaces than bypass models.

Steam—Have electrodes to create steam and add moisture to air that is moving through the HVAC system. Use less water to humidify the air than fan-powered and bypass models.

Note: Max. Sq. Foot Cap. is an approximation based on 8-ft. ceiling height.

Daily Humidification Output	Coverage Area	Humidity Settings	Plenum Opening Req.	Humidistat Control Modes	Overall HxWxD	Brand	Mfr. Model	Item No.
Humidifiers								
Bypass, Gravity Drain								
12 gal	2,000 sq ft	20% to 60%	9 7/16 in H x 9 5/16 in W	Automatic/Manual	14 in x 14 ½ in 10 ⅛ in	Honeywell Home	HE150A1005	**6JJK8**
	2,000 sq ft	20% to 60%	9 7/16 in H x 9 5/16 in W	Manual	14 in x 14 ½ in 10 ⅛ in	Honeywell Home	HE100A1000	**6JJK7**
	3,000 sq ft	30% to 60%	9 ½ in H x 9 ½ in W	Automatic/Manual	13 in x 15 ½ in 10 5/16 in	Aprilaire	500	**31TP26**
	3,000 sq ft	30% to 60%	9 ½ in H x 9 ½ in W	Manual	13 in x 15 ½ in 10 5/16 in	Aprilaire	500M	**31TP27**
17 gal	2,500 sq ft	20% to 60%	12 ⅝ in H x 9 ¾ in W	Automatic/Manual	17 ½ in x 15 in 10 ⅛ in	Honeywell Home	HE200A1000	**6JJK9**
	2,500 sq ft	20% to 60%	12 ⅝ in H x 9 ¾ in W	Automatic/Manual	17 ⅛ in x 15 in 10 ⅛ in	Honeywell Home	HE250A1005	**6JJL0**
	4,000 sq ft	30% to 60%	10 in H x 12 13/16 in W	Automatic/Manual	15 13/16 in x 15 ½ in 10 5/16 in	Aprilaire	600	**31TP28**
	4,000 sq ft	30% to 60%	12 ¾ in H x 10 in W	Manual	15 13/16 in x 15 ½ in 10 5/16 in	Aprilaire	600M	**31TP29**
19 gal	2,880 sq ft	—	16 ⅝ in H x 13 ⅛ in W	Manual	18 ⅝ in x 13 ¾ in 9 ⅝ in	White-Rodgers	HFT 2900FP	**36L348**
Bypass, Gravity Drain Optional								
17 gal	4,000 sq ft	30% to 60%	10 in H x 12 13/16 in W	Automatic/Manual	15 13/16 in x 15 ½ in 10 ⅜ in	Aprilaire	400	**31TP24**
	4,000 sq ft	30% to 60%	10 in H x 12 13/16 in W	Manual	15 13/16 in x 15 ½ in 10 5/16 in	Aprilaire	400M	**31TP25**
Fan-Powered, Gravity Drain								
18 gal	3,000 sq ft	20% to 60%	14 1/16 in H x 13 ½ in W	Automatic/Manual	16 ¾ in x 15 ½ in 10 ⅜ in	Honeywell Home	HE300A1005	**6JJL1**
	4,200 sq ft	30% to 60%	14 5/16 in H x 14 13/16 in W	Automatic/Manual	18 in x 15 15/16 in 10 5/16 in	Aprilaire	700	**31TP30**
	4,200 sq ft	30% to 60%	14 5/16 in H x 14 13/16 in W	Manual	18 in x 15 15/16 in 10 5/16 in	Aprilaire	700M	**31TP31**
Steam, Auto Flush								
17 gal	2,575 sq ft	—	10 ½ in H x 8 in W	—	7 ⅝ in x 12 ⅝ in 12 ½ in	White-Rodgers	HSP 2600	**36L350**
Steam, Gravity Drain								
22 gal	4,000 sq ft	40% to 60%	—	—	20 13/16 in x 10 in 7 in	Honeywell Home	HM750A1000/U	**414X14**
35 gal	6,200 sq ft	30% to 60%	—	—	21 in x 10 ⅛ in 7 ⅛ in	Aprilaire	800	**31TP32**

Compatible Mfr. Model No.	Brand	Item No.	
Replacement Pads			
110, 220, 500, 500A, 500M, 550, 550A, 558	Aprilaire	**31TP34**	*
110, 220, 550, 558, HE100, HE150, HE220, HE225	Honeywell Home	**2TE75**	
350, 360, 560, 560A, 568, 600, 600A, 600M, 700, 700A, 700M, 760, 760A, 768	Aprilaire	**31TP36**	*
350, 360, 560, 568, 600, 700, 760, 769, HE200, HE250, HE260, HE265, HE300, HE360, HE365	Honeywell Home	**2TE76**	
360, 560, 560A, 568, 600, 700, 760, 760A, 768, Aprilaire 350, HC26A1008, HC26E1004, HE260A/B, HE265A/B, HE360A/B, ME360, WB2-17, WP2-18	Bestair Pro	**2FRR9**	
400, 400A, 400M	Aprilaire	**31TP37**	*

*** OEM replacements.***

443W15

Ductable Dehumidifiers

Honeywell Home | Aprilaire

Dry the air and help prevent mold, mildew, and odors in offices, schools, and other indoor spaces where continual moisture removal is needed. Can operate as a freestanding unit.

Ductable Humidifiers with Fresh-Air Intake—Separate control allows models to pull in fresh air from outside to dissipate stale air and help reduce trapped airborne contaminants in indoor areas.

Daily Water Removal Capacity (80F/60 RH)	Air Flow @ 0.0 in wg	Coverage Area	For Duct Dia.	Operating Humidity Range	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Ductable Dehumidifiers										
65 pt	160 cfm	1,800 sq ft	8 in	0% to 90%	12 in	12 in	28 ½ in	Honeywell Home	DR65A3000/U	**443W15**
80 pt	185 cfm	4,400 sq ft	10 in	40% to 60%	15 in	14 in	26 in	Aprilaire	E080	**787CM7**
100 pt	280 cfm	5,500 sq ft	10 in	40% to 60%	15 in	14 in	26 in	Aprilaire	E100	**787CM8**
Ductable Dehumidifiers with Fresh-Air Intake										
90 pt	320 cfm	2,800 sq ft	10 in	0% to 90%	19 ⅜ in	14 ⅜ in	32 3/16 in	Honeywell Home	DR90A3000/U	**443W16**
120 pt	400 cfm		10 in	0% to 90%	20 ½ in	14 ¾ in	32 3/16 in	Honeywell Home	DR120A3000/U	**443W17**

Filter Type	Compatible Grainger Part No.	Performance Rating	Overall HxWxD	Brand	Mfr. Model	Item No.
Replacement Filter						
Pleated	443W16, 443W17	MERV 11	14 in x 17 ½ in x 1 ¾ in	Honeywell Home	50070171-002/U	**20Y116**

5AV39

RANCO

Heat Pump Reversing Valves and Solenoid Coils

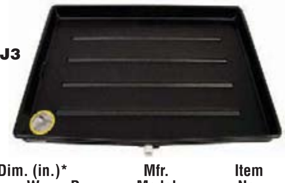
Slide-type, 4-way valves. Solenoid coils include wiring harness.

Cap. in Tons (R-22)	Cap. in Tons (R-502)	Suction Tube I.D.	High Pressure Tube I.D.	Mfr. Model	Item No.
Heat Pump Reversing Valves					
1.0 to 2.5	1.0 to 2.5	⅝ in	⅜ in	V2-410060-470	**5AV34**
1.0 to 5.5	1.0 to 5.5	¾ in	½ in	V6-412080-170	**5AV35**
1.0 to 5.5	1.0 to 5.5	⅞ in	½ in	V6-414080-170	**5AV36**
3.0 to 8.5	3.0 to 11.9	⅞ in	½ in	V10-414080-170	**5AV32**
3.0 to 9.5	3.0 to 11.9	1 ⅛ in	⅞ in	V10-418140-170	**5AV33**

Voltage	Watts @ 50 Hz	Watts @ 60 Hz	Mfr. Model	Item No.
Heat Pump Solenoid Coils				
24	5 W	4 W	LDK-110000-070	**5AV38**
208/240	5 W	4 W	LDK-410000-070	**5AV39**

DIVERSITECH

3HAJ3



Condensate Drain Pans

Rolled edges are easy on the hands.

Steel—Seamless, nestable pans have 2 possible drain outlet positions.

Plastic—Ribbed bottoms and reinforced corners for strength.

Dim. (in.)* L	W	D	Mfr. Model	Item No.
26-ga. Galv. Steel, ¾" Drain Line Fitting & Plug				
48	27	2	6-M2748	**3HAD7**
60	30	2	6-M3060	**3HAD8**
Black Plastic, ¾" PVC Fitting				
27	39	2	6-2739L	**3HAK1**
27	48	2	6-2748L	**3HAJ5**
27	63	2	6-2763L	**3HAJ6**
30	30	2	6-3030L	**3HAJ4**
30	50	2	6-3050L	**3HAJ9**
30	60	2	6-3060L	**3HAJ3**
32	63	2	6-3263L	**3HAJ7**
36	36	2	6-3636L	**3HAJ8**
36	60	2	6-3660L	**3HAK2**

Item	Mfr. Model	Item No.
Accessories		
Condensation Flood Detector Switch	WS-1	**6XJG7**
Condensation Overflow Safety Switch	SOS-1	**6XJH7**
Condensation Pan Switch	CC-1	**6XJH8**

*** L and W dimensions are for the base of the pan.***

10L931

Sponge Rubber Seal Strip

Adhesive backing bonds to wood, metal, glass, and other smooth surfaces. For indoor use as weather stripping, cushion, insulator, seal, and gap-filler. Max. temp.: 200°F.

L	W	Thickness	Item No.
50 ft	0.5 in	3/16"	**10L933**
50 ft	0.75 in	¼"	**10L934**
50 ft	1 in	⅛"	**10L935**
50 ft	1 in	3/16"	**10L936**
25 ft	0.75 in	7/16"	**10L931**
25 ft	1 in	9/16"	**10L932**

Honeywell Aprilaire TRION Indoor Air Quality Sun-Pure Catalytic Air Purification Honeywell Home

Media In-Duct Air Cleaners

Filter media neutralizes odors and traps airborne particles in residential or light commercial forced-air heating and cooling systems. For additional replacement air filters, see page 3049.

Particle Removal—Remove airborne contaminants such as smoke, dust, and mold.

Particle Removal and Germicidal Disinfection—Photocatalytic oxidizing (PCO) technology neutralizes stubborn odors, fumes, and toxic chemicals. UV light kills airborne bacteria, viruses, and mold. Helps neutralize NOx and carbon monoxide and is non-ozone generating.

Particle Removal and VOC/Odor Neutralization—Use ionization technology to remove airborne contaminants such as smoke, dust, and mold.

4YA31

2YGA3

2TE85

Primary Filter Performance Rating	Maximum Air Flow Capacity	Filter Efficiency @ Micron Size	Overall Height	Overall Width	Overall Depth	Brand	Mfr. Model	Item No.
Particle Removal								
Particulate Filtration								
MERV 11	1200 cfm	99 % at 0.3 micron	16 3/16 in	20 1/2 in	6 3/4 in	Honeywell	F100F1620	**278X86**
	1400 cfm	99 % at 0.3 micron	16 3/16 in	25 in	6 3/4 in	Honeywell	F100F1625	**468D76**
	1400 cfm	99 % at 0.3 micron	20 3/16 in	20 in	6 3/4 in	Honeywell	F100F2020	**468D77**
	2000 cfm	95 % at 2 micron	17 3/4 in	28 3/16 in	6 3/4 in	Aprilaire	2410	**31TP15**
	2000 cfm	95 % at 2 micron	22 1/16 in	27 3/8 in	6 3/4 in	Aprilaire	2210	**31TP14**
	2000 cfm	96 % at 0.3 micron	20 3/16 in	25 1/2 in	6 3/4 in	Honeywell	F100F2025	**278X85**
MERV 13	1200 cfm	99 % at 0.3 micron	16 3/16 in	20 in	6 3/4 in	Honeywell	F200F1620	**468D80**
	1400 cfm	99 % at 0.3 micron	16 3/16 in	25 in	6 3/4 in	Honeywell	F200F1625	**468D78**
	1400 cfm	99 % at 0.3 micron	20 3/16 in	20 in	6 3/4 in	Honeywell	F200F2020	**468D81**
	2000 cfm	95 % at 5 micron	17 3/4 in	28 3/16 in	6 3/4 in	Aprilaire	1410	**31TP13**
	2000 cfm	95 % at 5 micron	22 1/16 in	27 3/8 in	6 3/4 in	Aprilaire	1210	**31TP12**
	2000 cfm	99 % at 0.3 micron	20 3/16 in	25 in	6 3/4 in	Honeywell	F200F2025	**468D79**
MERV 8	1400 cfm	90 % at 1 micron	16 1/4 in	24 7/8 in	7 1/8 in	Trion	AIR BEAR SUPREME 16x25	**4YA29**
	1400 cfm	90 % at 1 micron	20 1/4 in	21 3/8 in	7 1/8 in	Trion	AIR BEAR SUPREME 20X20	**4YA30**
	2000 cfm	90 % at 1 micron	20 1/4 in	24 7/8 in	7 1/8 in	Trion	AIR BEAR SUPREME 20x25	**4YA31**
	2000 cfm	90 % at 1 micron	24 3/8 in	25 5/8 in	7 1/8 in	Trion	AIR BEAR RIGHT ANGLE	**4YA32** *
Particle Removal and Germicidal Disinfection								
Particulate Filtration, Ultraviolet Light, Photocatalytic Oxidation								
MERV 13	1200 cfm	92.3 % at 0.3 micron	17 in	25 in	10 in	Sun-Pure Ultra-Sun	Trio-1200	**2YGA5**
	2000 cfm	92.3 % at 0.3 micron	21 in	25 in	10 in	Sun-Pure Ultra-Sun	Trio-2000	**2YGA3**
Particle Removal and VOC/Odor Neutralization								
Particulate Filtration, Ionization								
—	2000 cfm	95 % at 0.1 micron	24 1/4 in	24 7/8 in	7 1/8 in	Trion	HE PLUS 20x25	**4YA26**
	2000 cfm	99 % at 0.3 micron	17 3/4 in	31 in	12 in	Aprilaire	5000	**31TP18**
MERV 11	1200 cfm	98 % at 3 micron	20 in	6 3/4 in	20 in	Honeywell Home	F300E1001	**2TE84**
	1400 cfm	98 % at 3 micron	16 in	6 3/4 in	25 in	Honeywell Home	F300E1019	**2TE85**
	1400 cfm	98 % at 3 micron	20 in	6 3/4 in	20 in	Honeywell Home	F300E1027	**2TE86**
	2000 cfm	98 % at 3 micron	20 in	6 3/4 in	25 in	Honeywell Home	F300E1035	**2TE87**

Performance Rating	Compatible Grainger Part No.	Brand	Mfr. Model	Item No.
Replacement Filters				
MERV 8	4YA29	Trion	255649-105	**4YA34**
	4YA30	Trion	255649-103	**4YA35**
	4YA31, 4YA32	Trion	255649-102	**4YA33**
MERV 10	31TP18	Aprilaire	501	**31TP11**
MERV 11	2YGA3	Sun-Pure Ultra-Sun	1RK016	**2YGC1**
	2YGA5	Sun-Pure Ultra-Sun	1RK021	**2YGA8**
	31TP14	Aprilaire	210	**31TP06**
	31TP15	Aprilaire	410	**31TP09**
MERV 13	31TP14	Aprilaire	213	**31TP07**
	31TP15, 31TP17	Aprilaire	413	**31TP10**
Replacement UV Bulb				
22 in	2YGA3, 2YGA5	Sun-Pure Ultra-Sun	1RK019	**2YGA7**

***** *Right-angle installation.*

Honeywell Home uvaire Honeywell iWave FIELD CONTROLS

In-Duct Air Cleaners

Units can operate continuously, but they require the HVAC system to be running to move air past the UV-C bulbs, filter media, or the ionization device.

Germicidal UV—Reduce viruses, mold, and bacteria in the air that moves past the UV-C bulbs.

VOC- and Odor-Reducing PCO—Use photocatalytic oxidation (PCO) filter media to neutralize volatile organic compounds (VOCs) and other gaseous pollutants in the air that moves through the air cleaners. Have UV-C bulbs that reduce airborne viruses, mold, and bacteria.

Particle-Removal Ionization—Feature an ion-generating device that neutralizes airborne pollutants and binds ions to dust, allergens, and other airborne particles that pass over the device. Cleaners don't use filters or bulbs, so they require less maintenance than air cleaners that use UV, PCO, or filter media cleaning technology.

56HW30

1RZX7

54XY40

No. of UV-C Bulbs	Duct Insertion Length	Maximum Air Flow Capacity	Compatible HVAC System Size	Voltage	Brand	Mfr. Model	Item No.
Germicidal UV							
1	16 13/32 in	—	—	32 V AC	Honeywell Home	UV2400U1000	**36WJ91**
1	18 in	5000 cfm	1.5 to 5 tons	120 V AC	UV Aire	UV-18	**56HW29**
1	16 in	5000 cfm	1.5 to 5 tons	24 V AC	UV Aire	UV-16/24	**56HW30**
1	16 in	5000 cfm	1.5 to 5 tons	120 V AC	UV Aire	UV-16/120	**56HW31**
2	14 7/16 in	—	—	120 V AC	Honeywell Home	UV100E2009	**1RZX7**
2	14 7/8 in	2000 cfm	—	120 V AC	Honeywell	UV100E1043	**278X84**
VOC- & Odor-Reducing PCO							
1	16 1/2 in	—	—	24V AC	Honeywell Home	UV2400U5000	**36WJ90**
1	17 3/4 in	2000 cfm	1.5 to 5 tons	120/240V AC	Pro-Cell Air Purifier	Duo-2000	**56HW36**
1	15 in	2000 cfm	1.5 to 5 tons	120V AC	Pro-Cell Air Purifier	Duo-16/120	**56HW37**

Maximum Air Flow Capacity	For Duct Cut-Out Dia.	Self Cleaning	Compatible HVAC System Size	Voltage	Overall Height	Overall Depth	Overall Height	Brand	Mfr. Model	Item No.
Particle-Removal Ionization										
2400 cfm	3 in	Yes	Up to 6 tons	24 V AC, 240 V AC	2 in	6 in	2 in	Iwave	4900-20	**54XY41**
2400 cfm	4 in	No	Up to 6 tons	24 V AC	2 1/2 in	5 in	2 1/2 in	Iwave	4900-40	**783PX5**
4800 cfm	4 in	Yes	Up to 12 tons	24 V AC, 240 V AC	7 in	4 in	7 in	Iwave	4900-10	**54XY40**

Bulb Length	Compatible Grainger Part No.	Brand	Mfr. Model	Item No.
Replacement UV Bulbs				
8 5/8 in	1RZX6, 278X84	Honeywell Home	UC100E1006	**1CWZ5**
16 in	56HW30, 56HW31	Field Controls	16LAMP	**784JJ9**
16 3/8 in	36WJ90, 36WJ91	Honeywell Home	UV2400XLAM1	**36WJ92**
17 1/2 in	56HW36	Field Controls	17.5LAMP	**784JJ8**
18 in	56HW29	Field Controls	18LAMP	**784JK0**

EATON
SQUARE D by Schneider Electric

Air Conditioning Disconnect Switches

For indoor or outdoor use.

Amps AC	Voltage	Short Circuit Protection	For Use With	Max. HP @ 240V	W	H	D	Brand	Mfr. Model	Item No.	
Polycarbonate											
30 A	240V AC	Fuse	Class RK1 Fuse	3 hp	5"	8⁴⁵⁄₆₄"	3½"	Eaton	ACD221RNM-A2	**5XHR5**	
60 A	240V AC	None	—	10 hp	5"	8⁴⁵⁄₆₄"	3½"	Eaton	ACD222URNM-A2	**5XHR3**	
60 A	240V AC	Fuse	Class RK1 Fuse	10 hp	5"	8⁴⁵⁄₆₄"	3½"	Eaton	ACD222RNM-A2	**5XHR4**	
60 A	240V AC	Circuit Breaker	—	10 hp	6½"	8⅘"	3²⁹⁄₃₂"	Square D	QO200TRNM	**6HD95**	
Galvanized Steel											
30 A	240V AC	Fuse	Class H Fuse	3 hp	5¹³⁄₃₂"	8⁴⁵⁄₆₄"	3¹³⁄₆₄"	Eaton	DPF221R	**5XHR1**	
60 A	240V AC	None	—	10 hp	5¹³⁄₃₂"	8⁴⁵⁄₆₄"	3¹³⁄₆₄"	Eaton	DPU222R	**5XHP9**	
60 A	240V AC	None	—	10 hp	6³⁹⁄₆₄"	11³⁹⁄₆₄"	4¹³⁄₃₂"	Eaton	DPU222RGF20	**5XHR2**	*
60 A	240V AC	Fuse	Class H Fuse	10 hp	5¹³⁄₃₂"	8⁴⁵⁄₆₄"	3¹³⁄₆₄"	Eaton	DPF222R	**5XHR0**	
60 A	240V AC	None	—	10 hp	4³⁹⁄₆₄"	6½"	3²⁹⁄₃₂"	Square D	QO200TR	**1H245**	

** Includes 20A GFCI receptacle.*

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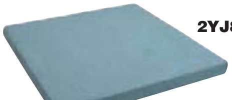

Equipment Pads

Mounting base for air conditioning units, filters, heaters, pool pumps, and refrigeration, or any type of equipment requiring weight distribution support. Ribbing allows self leveling and transfers load evenly. UV stable and vibration resistant.

Depth	Length	Width	Weight Cap.	Mfr. Model	Item No.
UltraLite Lightweight Concrete Composite Equipment Pad					
3 in	30 in	30 in	1,071 lb	UC3030-3	**2YJ84**
	36 in	36 in	1,547 lb	UC3636-3	**2YJ85**
	48 in	24 in	528 lb	UC2448-3	**60KZ93**
	48 in	36 in	624 lb	UC3648-3	**2YJ83**
The Black Pad Plastic Equipment Pad					
2 in	30 in	30 in	1,188 lb	ACP30302	**3HAD9**
	36 in	36 in	1,452 lb	ACP36362	**3HAE2**
3 in	30 in	30 in	1,188 lb	ACP30303	**3HAE1**
	36 in	36 in	1,452 lb	ACP36363	**3HAE3**
	48 in	36 in	1,716 lb	ACP36483	**3HAE4**

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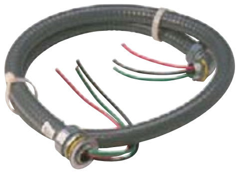
Assembled Flexible Connector Whips



Liquid-tight conduit kits have 1 straight metallic connector and a removable 90° metallic connector for optional connections. 3 wire colors for easy hookup.

Note: Check your local codes for correct requirements.

Conduit Dia. (in.)	Conduit L (in.)	Wire Size	Mfr. Model	Item No.
½ in	48 in	#10 THHN	6-12-4	**2YJ79**
½ in	72 in	#10 THHN	6-12-6	**2YJ80**
¾ in	48 in	#8 THHN	6-34-4	**2YJ81**
¾ in	72 in	#8 THHN	6-34-6	**2YJ82**

DUCTMATE.

Condensing Unit Braces

- Engineered wall-mount bracket for air conditioners, heat pumps, and other equipment
- No site preparation or leveling

No settling. Good for coastal and flood-prone areas or where hurricanes, snowfall, mud, or steep grades are a concern. Mounting fasteners not included.

Note: Because of the wide range of wall materials (brick, concrete, wood, etc.) the mounting is the responsibility of the installer.

Description	Mfr. Model	Item No.
36"L x 30"W	GRAIRBRACE36GA	**6EKE2**
45"L x 36"W	GRAIRBRACE45GA	**6EKE3**
55"L x 48"W	GRAIRBRACE55GA	**6EKE4**

Streamline®
A BRAND OF MUELLER INDUSTRIES

Insulated Copper Tube Line Sets

Refrigeration-grade copper tubing and insulation preassembled and packaged together for efficient installation of split systems.

Note: Prices subject to change without notice. Call 1-800-GRAINGER (472-4643) for current market price.

Liquid Line Size (in.)	Suction Line Size (in.)	L (ft.)	Insulation Thickness (in.)	Mfr. Model	Item No.	
Refrigerant Line Sets						
¼ OD	⅜ OD	35 ft	½ in	40620350B6	**4E965**	*
	⅜ OD	50 ft	½ in	40620500B6	**38N857**	*
	½ OD	35 ft	½ in	40820350B6	**4E967**	*
	½ OD	50 ft	½ in	40820500B6	**38N858**	*
	⅝ OD	35 ft	½ in	41020350B6	**4E969**	
	⅝ OD	50 ft	½ in	41020500B6	**38N859**	*
¼ OD Flared Ends	⅜ OD Flared Ends	35 ft	½ in	40620350B3B6	**38N861**	*
	⅜ OD Flared Ends	50 ft	½ in	40620500B3B6	**38N860**	*
	½ OD Flared Ends	35 ft	½ in	40820350B3B6	**38N863**	*
	½ OD Flared Ends	50 ft	½ in	40820500B3B6	**38N862**	*
	⅝ OD Flared Ends	35 ft	½ in	41020350B3B6	**1CNP5**	*
	⅝ OD Flared Ends	50 ft	½ in	41020500B3B6	**38N864**	*
⅜ OD	⅝ OD	15 ft	½ in	61020150B6	**6XZ53**	*
	⅝ OD	30 ft	½ in	61020300	**38N856**	
	⅝ OD	35 ft	½ in	61020350B6	**6XZ54**	*
	⅝ OD	50 ft	½ in	61020500B6	**12T748**	*
	⅝ OD	50 ft	½ in	61020500	**38N855**	
	¾ OD	30 ft	½ in	61220300	**6XZ57**	
	¾ OD	30 ft	½ in	61220301	**4E871**	†
	¾ OD	50 ft	½ in	61220500	**6XZ58**	
	¾ OD	50 ft	½ in	61220501	**4E870**	†
	⅞ OD	30 ft	½ in	61420300	**6XZ61**	
	⅞ OD	30 ft	½ in	61420301	**3F346**	†
	⅞ OD	50 ft	½ in	61420500	**6XZ62**	
	⅞ OD	50 ft	½ in	61420501	**3F347**	†
	1⅛ OD	50 ft	½ in	61820500	**1EVH2**	
⅜ OD Flared Ends	⅝ OD Flared Ends	35 ft	½ in	61020350B3B6	**38N866**	*
	⅝ OD Flared Ends	50 ft	½ in	61020500B3B6	**38N865**	*
⁵⁄₁₆ OD	⅝ OD	30 ft	½ in	51020300	**3F342**	
	¾ OD	30 ft	½ in	51220300	**3F344**	
	¾ OD	50 ft	½ in	51220500	**3F345**	

** Both lines are insulated. † 90° bend on end of line.*

Item	Connec. Size	Mfr. Model	Item No.
Fittings			
¼" Flare Gasket	¼ in	A 00401	**38N874**
¼" SAE Cap	¼ in	A 16447	**38N867**
	¼ in	A 04544	**38N868**
Copper Flare Seal Bonnet	¼ in	A 00414	**38N885**
Flare Bushing	⅝ in x ¼ in	A 07813NL	**38N872**
	⅝ in x ⅛ in	A 07812NL	**38N878**
Flare Fitting	¼ in SAE M x ¼ MPT	A 04585	**38N875**
	¼ in SAE M x ⅛ MPT	A 00330	**38N883**
	¼ in SAE M x ¼ SAE M	A 00325	**38N884**
	⅜ in SAE M x ⅜ SAE M	A 00327	**38N886**
Flare Fitting 90 Degrees	¼ in SAE x ⅛ in NPT	A 00335	**38N881**
Flare Gasket	⅜ in	A 00402	**38N882**
Flare Nut	¼ in	A 05051	**38N869**
	⅜ in	A 05052	**38N870**
	½ in	A 05053	**38N871**
	⅝ in	A 05157	**38N879**
Half Union Connector	½ in x ½ in	A 04780	**38N877**
Swivel FE Flare X Solder Adapter	¼ in x ¼ in	A 15725	**38N876**
	⅜ in x ⅜ in	A 15726	**38N873**
	½ in x ½ in	A 15727	**38N880**

AC-GUARD

Equipment Security Cages and Lock Set

Adjustable cages protect 1 or more condensers from copper theft. High-security padlocks have 2"-thick shackle to resist bolt cutters. Keyed alike for convenient control.

Description	Mfr. Model	Item No.
A/C Condenser Security Cage, 16 ga. Steel, .1" tubing size, H Adjustable 34 to 59", W x D Adjustable 30 to 51"	ACGU	**5ULD4**
Mini-Split Cage, 16 ga Powder Coated Steel, Adjusts From 32" H x 32" W x 12" D to 57" H x 45" W x 16 ½" D, Includes 2 Locks	ACMS	**45MY32**
Padlock, Steel, For Use With Mfr. No. ACGU, Includes	ACL	**5ULD5**

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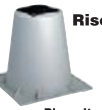


Equipment Mounting Accessories

Mounting Brackets—12 ga. powder-coated steel with prepunched holes; 600-lb. load rating. For hanging A/C condensers and heat pumps outside at any height.

Mounting Block—Raises furnace 1½" for quiet, dry operation. Each block handles over 500 lb. Peel-and-stick installation.

Risers—Stable, sturdy, plastic risers elevate condensers, heat pumps and air handlers. Butyl mastic on top and bottom prevents slipping and reduces vibration and noise.

Description	Pkg. Qty.	Item No.
Mounting Brackets		
30"	2	**6XJH9**
36"	2	**6XJJ0**
42"	2	**6XJJ1**
Mounting Block		
6" x 4" x 2.35"	1	**6XJH6**
Risers		
3" Black	1	**6XJH3**
6" Black	1	**6XJH4**
3" Gray	1	**6XJG8**
6" Gray	1	**6XJG9**
12" Gray	1	**6XJH0**
2-Pc., 3", Gray	1	**6XJH1**
2-Pc., 6", Gray	1	**6XJH2**
4" Extension	1	**6XJH5**

HVAC Brushes & Brush Accessories

Flue Brush

Boiler Brush

Refrigeration Coil Brush

Fill Type	Brush Dia. (in.)	Brush Length (in.)	Overall Length (in.)	Item No.
Condenser Brush				
Fin Whisk				
Plastic				
Polyester	—	2 ⅛	6 ½	3HHE8
Condenser Tube Brush				
Double Spiral/Double Stem				
12-24 (F) Threads				
Stainless Steel	⅜ in	4 in	6 in	3HGW4
	7/16 in	4 in	6 in	3HGW5
	½ in	4 in	6 in	3HGW6
	⅝ in	4 in	6 in	3HGW8
	11/16 in	4 in	6 in	3HGW9
	¾ in	4 in	6 in	3HGX1
	15/16 in	4 in	6 in	3HGX4
	1 in	4 in	6 in	3HGX5
Single Spiral/Double Stem				
¼"-28 (M) Threads				
Brass	½ in	4 in	6 in	3HHA3
	9/16 in	4 in	6 in	3HHA4
	⅝ in	4 in	6 in	3HHA5
	11/16 in	4 in	6 in	3HHA6
	¾ in	4 in	6 in	3HHA7
	13/16 in	4 in	6 in	3HHA8
	⅞ in	4 in	6 in	3HHA9
	1 in	4 in	6 in	3HHC2
Stainless Steel	7/16 in	4 in	6 in	3HGY7
	½ in	4 in	6 in	3HGY8
	9/16 in	4 in	6 in	3HGY9
	⅝ in	4 in	6 in	3HGZ1
	11/16 in	4 in	6 in	3HGZ2
	¾ in	4 in	6 in	3HGZ3
	13/16 in	4 in	6 in	3HGZ4
	⅞ in	4 in	6 in	3HGZ5
	1 in	4 in	6 in	3HGZ7
12-24 (F) Threads				
Brass	⅜ in	4 in	6 in	3HGT5
	7/16 in	4 in	6 in	3HGT6
	½ in	4 in	6 in	3HGT7
	9/16 in	4 in	6 in	3HGT8
	⅝ in	4 in	6 in	3HGT9
	11/16 in	4 in	6 in	3HGU1
	¾ in	4 in	6 in	3HGU2
	13/16 in	4 in	6 in	3HGU3
	⅞ in	4 in	6 in	3HGU4
	15/16 in	4 in	6 in	3HGU5
	1 in	4 in	6 in	3HGU6
Stainless Steel	⅜ in	4 in	6 in	3HGR1
	½ in	4 in	6 in	3HGR3
	⅝ in	4 in	6 in	3HGR5
	¾ in	4 in	6 in	3HGR7
	⅞ in	4 in	6 in	3HGR9
	1 in	4 in	6 in	3HGT2
8-32 (M) Threads				
Brass	⅜ in	4 in	6 in	3HHA1
Stainless Steel	⅜ in	4 in	6 in	3HGY6
Single Spiral/Single Stem				
¼"-28 (M) Threads				
Nylon	7/16 in	4 in	6 in	3HHC6
	½ in	4 in	6 in	3HHC7
	9/16 in	4 in	6 in	3HHC8
	⅝ in	4 in	6 in	3HHC9
	11/16 in	4 in	6 in	3HHD1
	¾ in	4 in	6 in	3HHD2
	13/16 in	4 in	6 in	3HHD3
	⅞ in	4 in	6 in	3HHD4
	15/16 in	4 in	6 in	3HHD5
	1 in	4 in	6 in	3HHD6
12-24 (F) Threads				
Nylon	⅜ in	4 in	6 in	3HGU9
	½ in	4 in	6 in	3HGV2
	9/16 in	4 in	6 in	3HGV3
	⅝ in	4 in	6 in	3HGV4
	11/16 in	4 in	6 in	3HGV5
	¾ in	4 in	6 in	3HGV6
	⅞ in	4 in	6 in	3HGV8
	1 in	4 in	6 in	3HGW1
8-32 (M) Threads				
Nylon	⅜ in	4 in	6 in	3HHC5
Flue Brush				
Double Spiral/Double Stem				
¼ in (M) NPS				
Stainless Steel	1 ¾ in	4 ½ in	7 ½ in	2VMZ3
	1 ¼ in	4 ½ in	7 ½ in	2VMZ6
	1 ½ in	4 ½ in	7 ½ in	2XTE6
	2 ¼ in	4 ½ in	7 ½ in	2VMY8
	2 ¾ in	4 ½ in	7 ½ in	2VMY9
	2 ½ in	4 ½ in	7 ½ in	2VMZ1
	2 in	4 ½ in	7 ½ in	2XTD8
	3 in	4 ½ in	7 ½ in	2VMY7
	3 ¼ in	4 ½ in	7 ½ in	3EDL3
	3 ½ in	4 ½ in	7 ½ in	3EDL4
	3 ¾ in	4 ½ in	7 ½ in	3EDL5
	4 in	4 ½ in	7 ½ in	3EDL6
	4 ¼ in	4 ½ in	7 ½ in	3EDL7
	4 ½ in	4 ½ in	7 ½ in	3EDL8
	4 ¾ in	4 ½ in	7 ½ in	3EDL9
	5 in	4 ½ in	7 ½ in	3EDN1
Tempered Wire	¾ in	4 ½ in	7 ½ in	2FCD2
	1 ¾ in	4 ½ in	7 ½ in	2FCC5
	1 in	4 ½ in	7 ½ in	2VMY4
	1 ¼ in	4 ½ in	7 ½ in	2XTD6
	1 ½ in	4 ½ in	7 ½ in	2XTD9
	2 ¼ in	4 ½ in	7 ½ in	2FCC7
	2 in	4 ½ in	7 ½ in	2FCD4
	2 ¾ in	4 ½ in	7 ½ in	2VMY1
	2 ½ in	4 ½ in	7 ½ in	2XTE2
	3 in	4 ½ in	7 ½ in	2FCD3
	3 ¼ in	4 ½ in	7 ½ in	3EDH3
	3 ½ in	4 ½ in	7 ½ in	3EDH4
	4 in	4 ½ in	7 ½ in	2XTD2
Single Spiral/Double Stem				
Stainless Steel	1 ¼ in	4 ½ in	7 ½ in	2FCC6
	1 ¾ in	4 ½ in	7 ½ in	2VMZ2
	1 ½ in	4 ½ in	7 ½ in	2XTD4
	2 in	4 ½ in	7 ½ in	2FCC8
	2 ¼ in	4 ½ in	7 ½ in	2VMY5
	2 ½ in	4 ½ in	7 ½ in	2VMZ4
	2 ¾ in	4 ½ in	7 ½ in	3EDH5
	3 in	4 ½ in	7 ½ in	2VMZ5
	3 ¼ in	4 ½ in	7 ½ in	3EDH6
	3 ½ in	4 ½ in	7 ½ in	3EDH7
	3 ¾ in	4 ½ in	7 ½ in	3EDH8
	4 in	4 ½ in	7 ½ in	2VNA9
	4 ¼ in	4 ½ in	7 ½ in	3EDH9
	4 ½ in	4 ½ in	7 ½ in	3EDJ1
	5 in	4 ½ in	7 ½ in	3EDJ3
Tampico	1 in	4 ½ in	7 ½ in	3EDC7
	1 ½ in	4 ½ in	7 ½ in	3EDC8
	2 in	4 ½ in	7 ½ in	3EDC9
	2 ½ in	4 ½ in	7 ½ in	3EDD1
	5 in	4 ½ in	7 ½ in	3EDD5
	6 in	4 ½ in	7 ½ in	3EDD6
Tempered Wire	1 ¾ in	4 ½ in	7 ½ in	2VNA6
	1 in	4 ½ in	7 ½ in	3EDF1
	1 ½ in	4 ½ in	7 ½ in	3EDF3
	2 in	4 ½ in	7 ½ in	3EDF4
	2 ¼ in	4 ½ in	7 ½ in	3EDF5
	2 ½ in	4 ½ in	7 ½ in	3EDF6
	2 ¾ in	4 ½ in	7 ½ in	3EDF7
	3 in	4 ½ in	7 ½ in	3EDF8
	3 ¾ in	4 ½ in	7 ½ in	3EDG2
	4 in	4 ½ in	7 ½ in	3EDG3
⅜ in (M) NPT				
Tempered Wire	1 ¾ in	4 ½ in	7 ½ in	3EDG4
	2 ¼ in	4 ½ in	7 ½ in	3EDG6

Fill Type	Brush L (in.)	Brush Dia. (in.)	Handle L (in.)	Overall Length (in.)	Item No.
Boiler Brush					
Columbia Boiler, Single Spiral/Single Stem					
Twisted Wire					
Spring Grade	4 ½ in	½ x 1	22 in	27 in	2FCD1
Tempered Wire	4 ½ in	½ x 1	44 in	48 in	2FCC9
Weil McLain Boiler, Single Spiral/Single Stem					
Bristle	4 in	1 ½ x 1 ⅛	26 in	30 in	2VMY6
	4 in	1 ½ x 1 ⅛	26 in	30 in	2XTD5
Carbon Steel	4 in	1 ½ x 1 ⅛	26 in	30 in	3ECZ9
	4 in	1 ½ x 1 ⅛	26 in	30 in	3EDA1
Carbon Steel Wire	4 in	1 ½ x 1 ⅛	38 in	42 in	2VMY2
Crimped Wire	4 in	1 ½ x 1 ⅛	26 in	30 in	2XTD3
Wooden and Twisted Wire					
Straight Wire	2 ¾ in	1 ½ x 1 ⅛	27 ¼ in	30 in	2XTE5
Furnace Boiler Brush					
Single Spiral/Single Stem					
Crimped Brass	7 in	2 ⅛ in	41 in	48 in	2VMZ7
Fiber	6 in	2 in	21 in	27 in	3EDP3
	6 in	2 in	36 in	42 in	2XTA8
	6 in	3 in	36 in	42 in	3EDP5
Fiber Hair Mix	6 in	2 in	21 in	27 in	3EDP6
	6 in	2 in	36 in	42 in	2VMZ9
	6 in	3 in	36 in	42 in	2VNC1
Nylon	4 in	2 ¼ in	16 in	20 in	3EDA2
	4 in	2 ¼ in	16 in	20 in	3EDA3
Stainless Steel	7 in	2 ⅛ in	41 in	48 in	2VNA2
Furnace Brush					
Wire Handle with 1 in Ring					
Natural Bristle	7 in	1 to 2	14 in	21 in	3ECY5
	7 in	1 to 2	35 in	42 in	3ECY4
Wooden					
Natural Bristle	7 in	½ x 1	4 ½ in	36 in	2FCE5
Tampico	7 in	2 ⅛ in	4 ½ in	48 in	2FCD8
Wooden and Twisted Wire					
Natural Bristle	7 in	½ x 1	14 in	21 in	3ECY6
	7 in	½ x 1	23 in	30 in	2XTD7
	7 in	½ x 1	29 in	36 in	3ECY3

Fill Type	Brush L (in.)	Brush Dia. (in.)	Handle L (in.)	Overall Length (in.)	Item No.
Radiator Brush					
Wooden					
Horsehair	7 in	2 in	4 ½ in	27 in	2FCD6
	7 in	2 ½ in	4 ½ in	27 in	2FCD9
Horsehair Poly Mix	7 in	2 ½ in	4 ½ in	27 in	2FCE2
Refrigerator Coil Brush					
Synthetic	12 in	¾ x 1 ½	15 in	28 in	3ECX8
	12 in	¾ x 1 ½	15 in	28 in	2KVE3
Wooden and Twisted Wire					
Bristle	6 in	2 in	18 in	24 in	3ECX6
Poly	7 in	2 ¼ in	17 in	24 in	3ECX7
	12 in	¾ x 1 ½	22 in	28 in	3ECX9
Synthetic	¾ x 1 ½	¾ x 1 ½	4 ½ in	30 in	2FCD7
Tube Brush					
Single Spiral/Double Stem					
¼ in (M) NPS					
Brass	4 ½ in	1 ½ in	—	7 ½ in	2VMZ8
	4 ½ in	1 ¼ in	—	7 ½ in	2XTE3
	4 ½ in	1 ¾ in	—	7 ½ in	3EDJ4
	4 ½ in	2 ½ in	—	7 ½ in	2VNA4
	4 ½ in	2 in	—	7 ½ in	2XTE1
	4 ½ in	2 ¼ in	—	7 ½ in	3EDJ5
	4 ½ in	2 ¾ in	—	7 ½ in	3EDJ6
	4 ½ in	3 in	—	7 ½ in	3EDJ7
	4 ½ in	3 ½ in	—	7 ½ in	3EDJ9
	4 ½ in	4 in	—	7 ½ in	2VNA1
Nylon	5 in	1 ½ in	—	7 ½ in	2VNC2
	5 in	1 ¼ in	—	7 ½ in	2XTE4
	5 in	1 ¾ in	—	7 ½ in	3EDK2
	5 in	2 in	—	7 ½ in	3EDK3
	5 in	2 ¼ in	—	7 ½ in	3EDK4
	5 in	2 ½ in	—	7 ½ in	3EDK5
	5 in	2 ¾ in	—	7 ½ in	3EDK6
	5 in	3 in	—	7 in	3EDK7
	5 in	3 ½ in	—	7 in	3EDK9
	5 in	3 ¾ in	—	7 in	3EDL1
	5 in	4 in	—	7 ½ in	3EDL2
Galvanized Wire					
Natural Bristle	2 in	⅜ in	4 in	6 ½ in	2FCE4
	3 in	½ in	21 in	24 in	2FCE1
	3 in	½ in	32 ½ in	36 in	2FCE3

Type	Overall Length (in.)	Item No.
Extension Rod		
Handle Type		
Fiberglass	36	2ELE1
	48	2ELE2
	72	2ELE3
¼-28 (M) and (F) Threads Handle Type		
Steel Rod; Male Thread One End, Female Other	36	3HHE9
¼ NPS Handle Type		
Twisted Steel; Male Threads One End, Female Other	60	2VNA5
Nylon, Male Thread One End, Female Other	48	2XTA6
Nylon, Pack of 4, Male Thread One End, Female Other	48	3EDA9
Nylon, Stainless Steel Nipple; Male Thread One End, Female Other	48	3EDC1
⅜ NPT Handle Type		
Fiberglass, 0.440 dia Rod: Male Thread One End, Female Other	48	3EDA6
	60	3EDA7
	72	3EDA8
12-24 (M) and (F) Threads Handle Type		
Aluminum Rod; Male Thread One End, Female Other	24	3HHD8
	36	3HHD9
8-32 (M) and (F) Threads Handle Type		
Steel; Male Thread One End, Female Other	24	3HHD7

Type	For Use With	Overall Length (in.)	Handle Type	Item No.
Adaptor				
Female Thread Both Ends	Boiler, Flue, and Tube Brushes	2 in	¼ NPT to ⅜ NPT	3EDC2
T-Handle				
Aluminum; Female Thread	Condenser Brush with ¼-28 M-Threads	—	¼-28 (F) Threads	3HHE1
Aluminum; Male Thread	Condenser Brush with 12-24 F-Threads	—	12-24 (M) Threads	3HHE2
Steel; Male Thread	Condenser Brush with 8-32 F-Threads	—	8-32 (M) Threads	3HHE3
Wooden and Twisted Wire; Female Thread	Boiler, Flue, and Tube Brushes	7 in	¼ NPS	2VNA8

AMERIVENT®

Type B Gas Vent Components

- Requires 1" clearance to combustibles
- Snap-lock joints

Gas Vent Pipe Sections—Rugged, double-wall construction with aluminum alloy 1100, 3003, or 3105 inner pipe and corrosion-resistant galvanized steel outer pipe. Snap-lock coupling ends.

Adjustable Gas Vent Pipe—Fit onto standard pipe sections. Telescope adjusts from 3" to 10".

Standard Tees—Branch and trunk diameters are the same size.

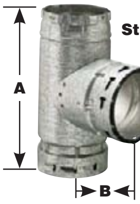
Adjustable Gas Vent Elbows, 90°—Constructed of 4 sections for smoother bends and less resistance. Adjusts from 0° to 90°.

Vent Caps—Designed to prevent spill-back of waste gases into structures. Permit termination of vents at minimum height necessary above roof.

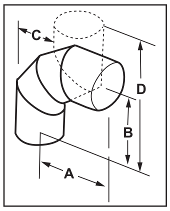
Adapters—Universal adapters feature snap-lock couplings on 1 end, and slip joints on other. When used to join 2 UL Listed gas vent systems, the entire system maintains the listing.

Furnace/Water Heater Kits—Kits include cap, storm collar, flashing, draft hood connector, and 12" adjustable length. Most installations require additional pipe lengths and adjustable 90° "L" connector.

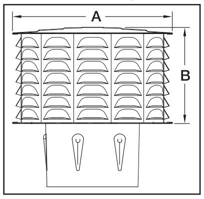
- **Firestop Support Plates—**For supporting Type B gas vents starting at appliance level while also serving as a firestop.



Standard Tee



Adjustable Gas Vent Elbow, 90°



Vent Cap

Furnace/Water Heater Kit

Gas Vent Pipe Dia.	Gas Vent Pipe Length	Mfr. Model	Item No.
Gas Vent Pipe Sections			
3 in	2 ft	3E24	**3F378**
3 in	3 ft	3E3	**3F379**
3 in	4 ft	3E4	**3F380**
3 in	5 ft	3E5	**3F381**
4 in	2 ft	4E24	**3F382**
4 in	3 ft	4E3	**3F383**
4 in	4 ft	4E4	**3F384**
4 in	5 ft	4E5	**3F385**
5 in	2 ft	5E24	**3F386**
5 in	3 ft	5E3	**3F387**
5 in	4 ft	5E4	**3F388**
5 in	5 ft	5E5	**3F337**
6 in	2 ft	6E24	**3F338**
6 in	3 ft	6E3	**3F339**
6 in	4 ft	6E4	**3F340**
6 in	5 ft	6E5	**3F341**
Adjustable Gas Vent Pipe			
3 in	1 ft	3E12A	**3F360**
4 in	1 ft	4E12A	**3F361**
5 in	1 ft	5E12A	**3F362**
6 in	1 ft	6E12A	**3F363**

Gas Vent Pipe Dia.	Mfr. Model	Item No.
Furnace/Water Heater Kits		
3 in	3EK	**3F348**
4 in	4EK	**3F349**
5 in	5EK	**3F350**
6 in	6EK	**3F351**

Gas Vent Pipe Dia.	Dimensions A	Dimensions B	Mfr. Model	Item No.
Standard Tees				
3 in	7⅛"	4⅛ in	3ET	**3F374**
4 in	8⅞"	4⅝ in	4ET	**3F375**
5 in	10"	5¼ in	5ET	**3F376**
6 in	11½"	5¾ in	6ET	**3F377**
Adjustable Gas Vent Elbows, 90 °				
3 in	4½"	5¼ in	3EAL	**3F356**
4 in	5"	5½ in	4EAL	**3F357**
5 in	5½"	6 in	5EAL	**3F358**
6 in	6½"	7 in	6EAL	**3F359**
Vent Caps				
3 in	6 ¾ in	2 ⅞ in	3CW	**3F352**
4 in	6 ¾ in	4 ⅜ in	4CW	**3F353**
5 in	9 ⅞ in	4 5⁄16 in	5CW	**3F354**
6 in	9 ⅞ in	5 ¾ in	6CW	**3F355**
Adapters				
4 in Female Vent Adapter			4EUA-F	**6E806**
4 in Male Vent Adapter			4EUA-M	**6E805**
5 in Female Vent Adapter			5EUA-F	**6E808**
5 in Male Vent Adapter			5EUA-M	**6E807**
6 in Female Vent Adapter			6EUA-F	**6E810**

Gas Vent Pipe Support Inside Dia.	Skirt	Mfr. Model	Item No.
Firestop Support Plates			
3 in	5 ½ in	3FSP	**3F364**
4 in	6 ½ in	4FSP	**3F365**
5 in	7 ½ in	5FSP	**3F366**
6 in	8 ½ in	6FSP	**3F367**

Single-Wall Connector Systems

AMERIVENT®

Single-wall flexible vent connector connects one or more appliances to double-wall Type B Gas Vent. Use for listed gas appliances with a draft hood or other gas appliances listed for use with Type B Gas Vent.

Flexible Pipe: 0.012" aluminum alloy 3003. Single wall pipe ends: 0.018" aluminum-zinc coated steel. Rigid components: 0.018" aluminum-zinc coated steel. Clearance: 1" to combustibles. Do not enclose. Do not pass through walls, floors, or ceilings.

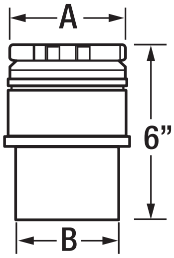
Appliance Connector—Sized to fit outlet. Use sheet metal screws for code approved appliance connection.

Universal Adapter—Short slip connection with Ameri-Flex single wall snaplock base.

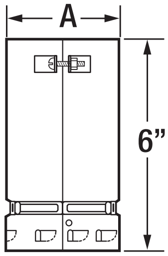
Vent Pipe Hanger—Provides 1½" spacing (Order same size as pipe diameter).

Reduction Wye—Features branch and/or base with smaller diameter than trunk size. Cap connection for furnace and water heater in common connector.

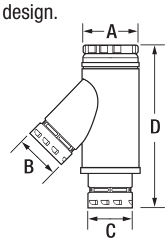
Flexible Pipe Section—Single wall corrugated aluminum connects from the appliance to Type B Gas Vent. May be compressed 4" per foot to shorten lengths. Cap ends offer snaplock design.



Appliance Connector



Universal Adapter



Reduction Wye

Gas Vent Pipe Dia.	Gas Vent Pipe Length	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Mfr. Model	Item No.
Appliance Connector							
3 in	6 in	3½"	3 in	—	—	3FCAC	**4E855**
4 in	6 in	4½"	4 in	—	—	4FCAC	**4E861**
Universal Adapter							
4 in	6 in	4½"	—	—	—	4FCA	**4E862**
5 in	6 in	5½"	—	—	—	5FCA	**4E864**
Vent Pipe Hanger							
3 in	—	—	—	—	—	3VPH	**4E857**
4 in	—	—	—	—	—	4VPH	**4E863**
5 in	—	—	—	—	—	5VPH	**4E867**
Reduction Wye							
5 in	1 ft	5½"	3½ in	4 ½ in	12"	5FCY34	**4E865**
5 in	13 ½ in	5½"	4½ in	4 ½ in	13½"	5FCY44	**4E866**
Flexible Vent Pipe Section							
3 in	5 ft	—	—	—	—	3FC5	**4E852**
3 in	3 ft	—	—	—	—	3FC3	**4E853**
4 in	5 ft	—	—	—	—	4FC5	**4E858**
4 in	3 ft	—	—	—	—	4FC3	**4E859**
4 in	1 ft	—	—	—	—	4FC12	**4E860**

Smoke Emitters

Superior® SMOKE

Rapidly produce dense smoke for leak detection and air-flow analysis. Suitable for HVAC ductwork, exhaust ventilation systems, fire systems, leak testing of boilers, tanks and other enclosures, and air flow testing of chimneys and flues. 3KLJ7 can be daisy-chained for longer smoke production. Use matches or pellets when smaller volume of smoke is needed.

Time	Volume (cu. ft.)	Mfr. Model	Item No.	Pkg. Qty.
Candles				
30 sec	4,000	1A	**3KLJ8**	12
60 sec	8,000	2B	**3KLJ9**	12
3 min	40,000	3C	**3KLK1**	12
3 min	40,000	W3C	**3KLJ7** *	12
Matches				
20 sec	30	SPM	**35LX66**	36
Pellets				
30 sec	200	SP5	**35LX67**	12
60 sec	400	SP8	**35LX68**	10
60 sec	500	SP13	**35LX69**	12

** Double wick.*

3KLK1

REGIN
REGIN HVAC PRODUCTS, INC.

Smoke Emitters

Produce clean, nontoxic, oil-free smoke to quickly find air-flow leaks in heat exchangers, air ducts, chimneys, tanks, boilers, and piping. Won't stain clothing or building interiors. Contain no explosives. Also used for fire drills and to test smoke alarms/detectors.

3KLK3

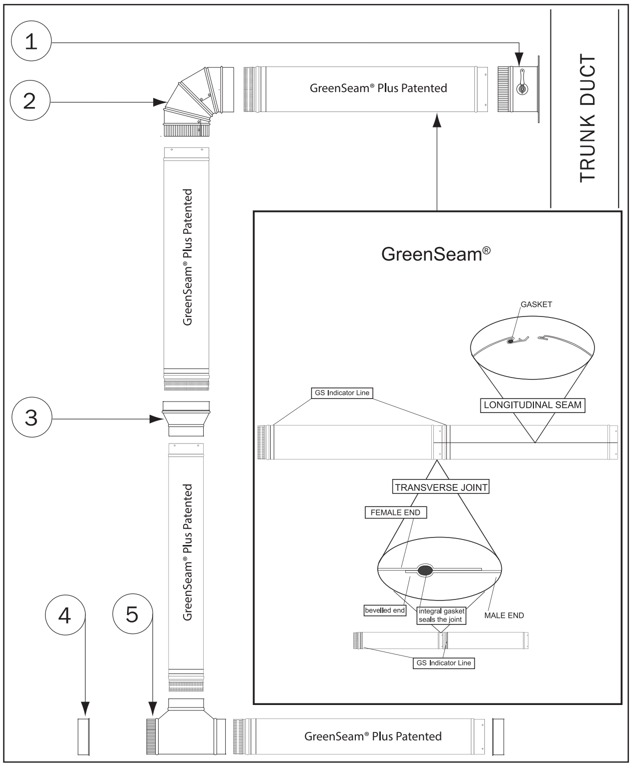
Time	Volume (cu. ft.)	Mfr. Model	Item No.	Pkg. Qty.
Matches				
15 to 20 sec	20 to 30	S210-25	**22CU34**	25
15 to 20 sec	20 to 30	S210-100	**22CU35**	100
Emitters				
45 sec	150	S102	**3KLK3**	10
45 sec	150	S102-50	**22CU36**	50
90 sec	600	S103	**3KLK2**	10
90 sec	600	S103-50	**22CU37**	50
3 min	1,200	S104	**3KLZ2**	5
4 min	2,500	S105	**3KLZ3**	5
8 min	18,000	S107	**22CU33**	1
Bottle				
7 sec	1 to 300	FP201	**22CU32**	1
Pen				
3 hr	300	S220	**3LHW9**	1
Pen Replacement Wicks				
30 min	10	3KXX4	**3KXX4**	6
Carbon Monoxide Bump Tester				
Includes Smoke Pen, (6) Wicks, Filter and Applicator		CO BUMP TESTERCO 101	**31XL71**	1

GSI A DMI COMPANY

Duct and Fittings

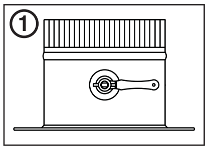
GreenSeam Plus Snap-Lock Pipe is self-sealing duct for commercial and residential applications. Engineered with a LEED qualifying zero-VOC gasket; eliminates additional sealing along the longitudinal seams and transverse joint. When used with GSI sealed fittings, GreenSeam Plus system reduces energy costs and increases overall system efficiency. Each box contains five 5-ft. sections (25-ft. total). Note: Call 1-800-GRAINGER (472-4643) for specialty ordering information.

GreenSeam® Snap Lock Pipe 6EKE9

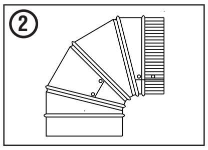


Duct Fitting Dia.	Duct Fitting Length	H	26 ga ga. Item No.	24 ga ga. Item No.
GreenSeam® Snap Lock Pipe				
4 in	60 in	—	6EKE9	—
5 in	60 in	5 in	6PGC8	6PGD1
6 in	60 in	—	6EKF0	6EKF6
7 in	60 in	7 in	6PGC9	6PGD2
8 in	60 in	—	6EKF1	6EKF7
9 in	60 in	9 in	6PGD0	6PGD3
10 in	60 in	—	6EKF2	6EKF8
12 in	60 in	—	6EKF3	6EKF9
14 in	60 in	—	6EKF4	6EKG0
1. Collar W/Damper				
4 in	5 in	6 in	6EKH3	—
5 in	5 in	6 in	6PGD9	6PGE2
6 in	5 in	6 in	6EKH4	6EKJ0
7 in	5 in	6 in	6PGE0	6PGE3
8 in	5 in	6 in	6EKH5	6EKJ1
9 in	5 in	6 in	6PGE1	6PGE4
10 in	5 in	6 in	6EKH6	6EKJ2
12 in	5 in	6 in	6EKH7	6EKJ3
14 in	5 in	6 in	6EKH8	6EKJ4
2. 90° Elbow				
4 in	7 in	6 ¾ in	6EKG1	6EKG7
5 in	8 in	6 ¾ in	6PGD4	6PGD7
6 in	9 in	9 in	6EKG2	6EKG8
7 in	10 in	9 in	6PGD5	6PGD8
8 in	11 in	11 in	6EKG3	6EKG9
9 in	13 in	11 in	6PGD6	—
10 in	14 in	13 in	6EKG4	6EKH0
12 in	16 in	15 in	6EKG5	6EKH1
14 in	17 ½ in	17 in	6EKG6	6EKH2
4. End Cap				
4 in	2 in	2 in	6EKJ5	6EKK1
5 in	2 in	2 in	6PGE5	6PGE8
6 in	2 in	2 in	6EKJ6	6EKK2
7 in	2 in	2 in	6PGE6	6PGE9
8 in	2 in	2 in	6EKJ7	6EKK3
9 in	2 in	2 in	6PGE7	6RFY5
10 in	2 in	2 in	6EKJ8	6EKK4
12 in	2 in	2 in	6EKJ9	6EKK5
14 in	2 in	2 in	6EKK0	6EKK6
5. Tee				
4 in	10 ½ in	8 in	6EKN4	—
5 in	14 ⅛ in	9 in	6RFY6	6RFY9
6 in	13 in	9 ½ in	6EKN5	6EKP1
7 in	14 ½ in	11 in	6RFY7	6RFZ0
8 in	15 ¾ in	12 ⅛ in	6EKN6	6EKP2
9 in	16 ¾ in	13 ½ in	6RFY8	6RFZ1
10 in	20 in	14 ⅛ in	6EKN7	6EKP3
12 in	21 ½ in	16 ¾ in	6EKN8	6EKP4
14 in	24 in	18 ¾ in	6EKN9	6EKP5

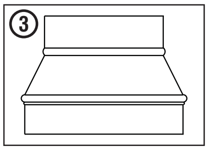
Duct Fitting Dia.	26 ga ga. Item No.	24 ga ga. Item No.
3. Reducers		
5 in x 4 in	6RFZ2	6RGA2
6 in x 4 in	6EKK7	6EKL8
6 in x 5 in	6RFZ3	6RGA3
7 in x 5 in	6RFZ4	6RGA4
7 in x 6 in	6RFZ5	6RGA5
8 in x 4 in	6EKK8	—
8 in x 6 in	6EKK9	6EKL9
8 in x 7 in	6RFZ6	6RGA6
9 in x 6 in	6RFZ7	6RGA7
9 in x 7 in	6RFZ8	6RGA8
9 in x 8 in	6RFZ9	6RGA9
10 in x 6 in	6EKL0	—
10 in x 8 in	6EKL1	6EKN0
10 in x 9 in	6RGA0	6RGC0
12 in x 6 in	6EKL2	—
12 in x 8 in	6EKL3	—
12 in x 10 in	6EKL4	6EKN1
12 in x 9 in	6RGA1	6RGC1
14 in x 8 in	6EKL5	—
14 in x 10 in	6EKL6	6EKN2
14 in x 12 in	6EKL7	6EKN3



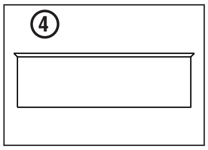
Press-On Collar w/Damper



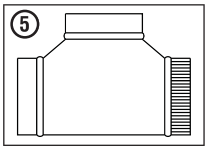
90° Adjustable Elbow



Reducer



End Cap



Tee

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westaflex

Chimney Liner Kits

- High temp.: 500°F
- Natural gas only

Liners are flexible and durable. Kits also include flashing, rain cap, B-vent connector, and mortar sleeve.

13E236

Gas Vent Pipe Item	Liner Material	Gas Vent Pipe Dia.	Gas Vent Pipe Length	Min. Length	Max. Duct Length	Mfr. Model	Item No.
Chimney Liner Kit	Aluminum	4 in	35 ft	10 ft	45 ft	9505	**13E236**
Chimney Liner Kit	Aluminum	4 in	25 ft	10 ft	45 ft	9504	**13E237**
Chimney Liner Extension	Aluminum	4 in	10 ft	10 ft	—	9505-ext	**13E238**
Chimney Liner Kit	Aluminum	5 in	35 ft	10 ft	45 ft	9509	**13E239**
Chimney Liner Kit	Aluminum	5 in	25 ft	10 ft	45 ft	9506	**13E240**
Chimney Liner Extension	Aluminum	5 in	10 ft	10 ft	—	9509-ext	**13E241**
Chimney Liner Kit	Aluminum	6 in	35 ft	10 ft	45 ft	9513	**13E242**
Chimney Liner Kit	Aluminum	6 in	25 ft	10 ft	45 ft	9516	**13E243**
Chimney Liner Extension	Aluminum	6 in	10 ft	10 ft	—	9513-ext	**13E244**

AMERIVENT®

Chimney Liner Kits

Allow you to easily line a masonry chimney. Aluminum models are suitable for Category 1, gas-fired appliances with B-vent, or appliances with a draft hood. They include a liner, rain cap, flashing, B-vent connector, and mortar sleeve. Pull Downs 40LJ33 and 40LJ39 let you stretch and lead the flexible liner down the chimney.

Gas Vent Pipe Item	High Temp. Degrees	Gas Vent Pipe Dia.	Gas Vent Pipe Length	Max. Duct Length	Mfr. Model	Item No.
Aluminum Liner, For Use With Natural Gas						
Chimney Liner Kit	470°F	3 in	35 ft	35 ft	3ALK35	**40LJ40**
Chimney Liner Kit	470°F	4 in	35 ft	35 ft	4ALK35	**40LJ41**
Chimney Liner Kit	470°F	5 in	35 ft	35 ft	5ALK35	**40LJ42**
Chimney Liner Kit	470°F	6 in	35 ft	35 ft	6ALK35	**40LJ43**
Accessories						
Pull Down	—	6 in	4 ¾ in	—	6FX-PD	**40LJ33**
Pull Down	—	8 in	7 ¼ in	—	8FX-PD	**40LJ39**

NORDFAB Ducting

Duct & Fittings

Quick-Fit Pipe—Laser welded seam prevents leakage; rolled edge on ends allows quick connection with Quick-Fit clamps.

Quick-Fit Duct Clamps with Pin—Open and close quickly; provide a tight seal. One connection clamp required to join 2 components.

Quick-Fit Adjustable Nipple—Use to provide variable length adjustment of Quick-Fit ducting system. Black rubber O-ring included.

Quick-Fit Angle Flange—Industry standard flange.

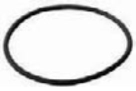
Quick-Fit Angle Flange Adapter—Use for quick connection of Quick-Fit pipe, fittings to flanged pipes or fittings.

Quick-Fit End Cap—Use with Quick-Fit Clamp to cap off an unused ducting port.

40D522

40D622

40D527


40D627

29RN87

40D617

40D612

45ZD38

40D557

45ZA08

Duct Fitting Dia.	GALVANIZED Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Quick-Fit Pipe, 59"L				
4 in	804020677	**40D522**	804020679	**45ZA21**
5 in	804020677	**45ZA22**	804020679	**45ZA23**
6 in	804020677	**40D523**	804020679	**45ZA24**
7 in	804020677	**45ZA25**	804020679	**45ZA26**
8 in	804020677	**40D524**	804020679	**45ZA27**
9 in	804020677	**45ZA28**	804020680	**45ZA29**
10 in	804020677	**40D525**	804020680	**45ZA30**
12 in	804020678	**40D526**	804020680	**45ZA31**
14 in	804020678	**29RM96**	804020680	**45ZA32**
16 in	804020678	**29RM97**	804020680	**45ZA33**
Quick-Fit Duct Clamp with Pin				
4 in	801000552	**40D622**	801000562	**45ZD64**
5 in	801000552	**45ZD65**	801000562	**45ZD66**
6 in	801000552	**40D623**	801000562	**45ZD67**
7 in	801000552	**45ZD68**	801000562	**45ZD69**
8 in	801000552	**40D624**	801000562	**45ZD70**
9 in	801000552	**45ZD71**	801000562	**45ZD72**
10 in	801000552	**40D625**	801000562	**45ZD73**
12 in	801000553	**40D626**	801000563	**45ZD74**
14 in	801000553	**29RM98**	801000563	**45ZD75**
16 in	801000553	**29RM99**	801000563	**45ZD76**
Quick-Fit Adj. Nipple w/ Black Rubber O-Ring				
4 in	804020730	**40D527**	804020732	**45ZA34**
5 in	804020730	**45ZA35**	804020732	**45ZA36**
6 in	804020730	**40D528**	804020732	**45ZA37**
7 in	804020730	**45ZA38**	804020732	**45ZA39**
8 in	804020730	**40D529**	804020732	**45ZA40**
9 in	804020730	**45ZA41**	804020732	**45ZA42**
10 in	804020730	**40D530**	804020732	**45ZA43**
12 in	804020730	**40D531**	804020733	**45ZA44**
14 in	804020731	**29RN01**	804020733	**45ZA45**
16 in	804020731	**29RN02**	804020733	**45ZA46**
Replacement O-Ring for Adj. Nipple				
4 in	801000097	**40D627**	—	—
5 in	801000097	**45ZD77**	—	—
6 in	801000097	**40D628**	—	—
7 in	801000097	**45ZD78**	—	—
8 in	801000098	**40D629**	—	—
9 in	801000098	**45ZD79**	—	—
10 in	801000098	**40D630**	—	—
12 in	801000098	**40D631**	—	—
14 in	801000099	**29RN03**	—	—
16 in	801000099	**29RN04**	—	—
Quick-Fit Angle Flange				
4 in	801000014	**29RN87**	—	—
6 in	801000014	**29RN88**	—	—
8 in	801000014	**29RN89**	—	—
10 in	801000014	**29RN90**	—	—
12 in	801000014	**29RN91**	—	—
14 in	801000015	**29RN92**	—	—
16 in	801000015	**29RN93**	—	—
Quick-Fit Angle Flange Adapter				
4 in	804040182	**40D617**	804040184	**45ZD51**
5 in	804040182	**45ZD52**	804040184	**45ZD53**
6 in	804040182	**40D618**	804040184	**45ZD54**
7 in	804040182	**45ZD55**	804040184	**45ZD56**
8 in	804040182	**40D619**	804040184	**45ZD57**
9 in	804040182	**45ZD58**	804040184	**45ZD59**
10 in	804040182	**40D620**	804040184	**45ZD60**
12 in	804040182	**40D621**	804040185	**45ZD61**
14 in	804040183	**29RN32**	804040185	**45ZD62**
16 in	804040183	**29RN33**	804040185	**45ZD63**
Quick-Fit Machine Adapter				
4 in	804040168	**40D612**	804040170	**45ZD38**
5 in	804040168	**45ZD39**	804040170	**45ZD40**
6 in	804040168	**40D613**	804040171	**45ZD41**
7 in	804040168	**45ZD42**	804040171	**45ZD43**
8 in	804040169	**40D614**	804040171	**45ZD44**
9 in	804040169	**45ZD45**	804040171	**45ZD46**
10 in	804040169	**40D615**	804040171	**45ZD47**
12 in	804040169	**40D616**	804040171	**45ZD48**
14 in	804040169	**29RN36**	804040171	**45ZD49**
16 in	804040169	**29RN37**	804040172	**45ZD50**
Quick-Fit Reducer				
5 in x 4 in	804002586	**45ZC81**	804002603	**45ZC82**
6 in x 4 in	804002586	**40D557**	804002603	**45ZC84**
6 in x 5 in	804002587	**45ZC83**	804002603	**45ZC85**
7 in x 6 in	804002587	**45ZC86**	—	—
8 in x 4 in	804002587	**40D558**	—	—
8 in x 6 in	804002587	**40D559**	804002604	**45ZC87**
9 in x 6 in	804002588	**45ZC88**	—	—
10 in x 4 in	804002588	**40D560**	—	—
10 in x 6 in	804002588	**40D561**	804002605	**45ZC89**
10 in x 8 in	804002589	**40D562**	804002605	**45ZC90**
12 in x 4 in	804002590	**40D563**	—	—
12 in x 6 in	804002590	**40D564**	—	—
12 in x 8 in	804002590	**40D565**	804002607	**45ZC91**
12 in x 10 in	804002590	**40D566**	804002607	**45ZC92**
14 in x 4 in	804002592	**29RN11**	—	—
14 in x 6 in	804002592	**29RN12**	—	—
14 in x 8 in	804002592	**29RN13**	—	—
14 in x 10 in	804002592	**29RN14**	—	—
14 in x 12 in	804002592	**29RN15**	804002609	**45ZC93**
16 in x 6 in	804002594	**29RN18**	—	—
16 in x 8 in	804002594	**29RN19**	—	—
16 in x 10 in	804002594	**29RN20**	—	—
16 in x 12 in	804002594	**29RN21**	—	—
16 in x 14 in	804002594	**29RN22**	804002611	**45ZC94**
16 in x 4 in	CUSTOMITE	**29RN17**	—	—
Quick-Fit End Cap				
14 in	801000375	**29RN71**	801000371	**45ZA19**
16 in	801000376	**29RN72**	801000372	**45ZA20**
10 in	801000376	**29RN69**	801000373	**45ZA17**
12 in	801000377	**29RN70**	801000373	**45ZA18**
4 in	801000377	**29RN66**	801000373	**45ZA08**
5 in	801000377	**45ZA09**	801000373	**45ZA10**

40D637

40D597

29RN73

29RN80

40D567

40D582

Duct Fitting Dia.	GALVANIZED Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Quick-Fit End Cap (Cont.)				
6 in	801000377	**29RN67**	801000373	**45ZA11**
7 in	801000377	**45ZA12**	801000373	**45ZA13**
8 in	801000377	**29RN68**	801000373	**45ZA14**
9 in	801000377	**45ZA15**	801000373	**45ZA16**
Quick-Fit Standard Branch, 30° Angle				
4 in	804000300	**40D637**	804000510	**45ZC54**
5 in	804000300	**45ZC55**	804000511	**45ZC56**
6 in	804000301	**40D638**	804000512	**45ZC57**
7 in	804000303	**45ZC58**	804000514	**45ZC59**
8 in	804000306	**40D639**	804000517	**45ZC60**
9 in	804000310	**45ZC61**	804000521	**45ZC62**
10 in	804000315	**40D640**	804000525	**45ZC63**
12 in	804000328	**40D641**	804000539	**45ZC64**
14 in	804000347	**29RN07**	804000558	**45ZC65**
16 in	804000371	**45ZC66**	804000582	**45ZC67**
Quick-Fit T-Branch, 90º Angle				
4 in	804030471	**40D597**	804030496	**45ZD07**
5 in	804030471	**45ZD08**	804030497	**45ZD09**
6 in	804030472	**40D598**	804030497	**45ZD10**
7 in	804030472	**45ZD11**	804030497	**45ZD12**
8 in	804030473	**40D599**	804030498	**45ZD13**
9 in	804030473	**45ZD14**	804030499	**45ZD15**
10 in	804030474	**40D601**	804030500	**45ZD16**
12 in	804030476	**40D602**	804030501	**45ZD17**
14 in	804030478	**29RN09**	804030504	**45ZD18**
16 in	804030481	**29RN10**	804030506	**45ZD19**
Quick-Fit Y-Branch, 60º Angle				
4 in	804020018	**29RN73**	804020073	**45ZC68**
5 in	804020018	**45ZC69**	804020074	**45ZC70**
6 in	804020019	**29RN74**	804020075	**45ZC71**
7 in	804020020	**45ZC72**	804020075	**45ZC73**
8 in	804020021	**29RN75**	804020076	**45ZC74**
9 in	804020022	**45ZC75**	804020077	**45ZC76**
10 in	804020023	**29RN76**	804020079	**45ZC77**
12 in	804020027	**29RN77**	804020082	**45ZC78**
14 in	804020031	**29RN78**	804020087	**45ZC79**
16 in	804020037	**29RN79**	804020092	**45ZC80**
Quick-Fit Double Branch, 60º Angle				
4 in	804010104	**29RN80**	—	—
5 in	804010105	**45ZD04**	—	—
6 in	804010106	**29RN81**	—	—
7 in	804010108	**45ZD05**	—	—
8 in	804010111	**29RN82**	—	—
9 in	804010115	**45ZD06**	—	—
10 in	804010119	**29RN83**	—	—
12 in	804010133	**29RN84**	—	—
14 in	804010152	**29RN85**	—	—
16 in	804010176	**29RN86**	—	—
Quick-Fit In-Cut, 30° Angle				
4 in x 4 in	804030000	**40D567**	—	—
6 in x 4 in	804030000	**40D568**	—	—
6 in x 6 in	804030001	**40D570**	804030026	**45ZC95**
8 in x 4 in	804030001	**40D569**	—	—
8 in x 6 in	804030001	**40D571**	804030027	**45ZC96**
8 in x 8 in	804030002	**40D572**	—	—
10 in x 4 in	804030003	**40D573**	—	—
10 in x 6 in	804030003	**40D574**	804030028	**45ZC97**
10 in x 8 in	804030003	**40D575**	—	—
10 in x 10 in	804030003	**40D576**	—	—
12 in x 4 in	804030004	**40D577**	—	—
12 in x 6 in	804030004	**40D578**	804030030	**45ZC98**
12 in x 8 in	804030005	**40D579**	—	—
12 in x 10 in	804030005	**40D580**	—	—
12 in x 12 in	804030005	**40D581**	—	—
14 in x 4 in	804030006	**29RN38**	—	—
14 in x 6 in	804030007	**29RN39**	—	—
14 in x 8 in	804030007	**29RN40**	—	—
14 in x 10 in	804030007	**29RN41**	—	—
14 in x 12 in	804030007	**29RN42**	—	—
16 in x 4 in	804030009	**29RN44**	—	—
16 in x 6 in	804030009	**29RN45**	—	—
16 in x 8 in	804030009	**29RN46**	—	—
16 in x 10 in	804030009	**29RN47**	—	—
16 in x 12 in	804030010	**29RN48**	—	—
16 in x 14 in	804030010	**29RN49**	—	—
16 in x 16 in	804030010	**29RN50**	—	—
Quick-Fit Tap-In, 90º Angle				
4 in x 4 in	804030277	**40D582**	—	—
6 in x 4 in	804030278	**40D583**	—	—
6 in x 6 in	804030278	**40D585**	804030303	**45ZC99**
8 in x 4 in	804030278	**40D584**	—	—
8 in x 6 in	804030279	**40D586**	804030304	**45ZD01**
8 in x 8 in	804030279	**40D587**	—	—
10 in x 4 in	804030280	**40D588**	—	—
10 in x 6 in	804030280	**40D589**	804030305	**45ZD02**
10 in x 8 in	804030280	**40D590**	—	—
10 in x 10 in	804030280	**40D591**	—	—
12 in x 4 in	804030281	**40D592**	—	—
12 in x 6 in	804030282	**40D593**	804030307	**45ZD03**
12 in x 8 in	804030282	**40D594**	—	—
12 in x 10 in	804030282	**40D595**	—	—
12 in x 12 in	804030282	**40D596**	—	—
14 in x 4 in	804030284	**29RN51**	—	—
14 in x 6 in	804030284	**29RN52**	—	—
14 in x 8 in	804030284	**29RN53**	—	—
14 in x 10 in	804030284	**29RN54**	—	—
14 in x 12 in	804030284	**29RN55**	—	—
14 in x 14 in	804030285	**29RN56**	—	—
16 in x 4 in	804030286	**29RN57**	—	—
16 in x 6 in	804030286	**29RN58**	—	—
16 in x 8 in	804030286	**29RN59**	—	—
16 in x 10 in	804030287	**29RN60**	—	—
16 in x 12 in	804030287	**29RN61**	—	—
16 in x 14 in	804030287	**29RN62**	—	—
16 in x 16 in	804030287	**29RN63**	—	—

CONTINUED

CONTINUED

NORDFAB Ducting

Duct & Fittings

Quick-Fit Elbow—4"- and 7"-dia. elbows are press formed; others are segmented.

Quick-Fit Manual Blast Gate—Cast aluminum body.

Quick-Fit SD Automatic Blast Gate—Standard 120V control and 75 psi air pressure.

Quick-Fit NFES Automatic Blast Gate—Standard 120V control and 75 psi air pressure. Single cylinder, except 29RP19 to 29RP22 are 2 cylinder.

Quick-Fit Router Hood—Standard opening 6" x 12". Edges are folded to inside for safety.

Quick-Fit Vibration Isolator—Helps keep vibration from passing from the fan to the ducting system.

Quick-Fit Ball Joint—Allows 22° off-center movement. Ideal for machines with moving dust ports.

Quick-Fit Jet Cap—Helps prevent moisture from entering the ductwork.

Quick-Fit HJ Pipe Hanger—Connects directly to ceiling and minimizes pipe movement.

Quick-Fit Butterfly Valve—Standard locking quadrant handle enables user to regulate air volume in clean air applications.

40D552

45ZA60

Duct Fitting Dia.	Radius	GALVANIZED Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Quick-Fit Elbow					
4 in	30°	801000095	**40D537**	—	—
4 in	45°	801000095	**40D538**	—	—
4 in	60°	801000095	**40D539**	—	—
4 in	90°	801000095	**40D540**	—	—
4 in	90°	801000595	**45ZA64**	—	—
5 in	30°	801000095	**45ZA66**	—	—
5 in	45°	801000095	**45ZA68**	—	—
5 in	60°	801000095	**45ZA70**	—	—
5 in	90°	801000095	**45ZA71**	—	—
5 in	90°	801000596	**45ZA73**	—	—
6 in	30°	801000096	**40D541**	—	—
6 in	45°	801000096	**40D542**	—	—
6 in	60°	801000096	**40D543**	—	—
6 in	90°	801000096	**40D544**	—	—
6 in	90°	801000596	**45ZA79**	—	—
7 in	30°	801000096	**45ZA81**	804040006	**45ZA82**
7 in	45°	801000096	**45ZA83**	804040007	**45ZA84**
7 in	60°	801000096	**45ZA85**	804040007	**45ZA86**
7 in	90°	801000096	**45ZA87**	804040007	**45ZA88**
7 in	90°	801000597	**45ZA89**	804040007	**45ZA90**
8 in	30°	804040000	**40D545**	804040007	**45ZA91**
8 in	45°	804040000	**40D546**	804040007	**45ZA92**
8 in	60°	804040000	**40D547**	804040007	**45ZA93**
8 in	90°	804040000	**40D548**	804040007	**45ZA94**
8 in	90°	804040085	**45ZA95**	804040092	**45ZA96**
9 in	30°	804040000	**45ZA97**	804040007	**45ZA98**
9 in	45°	804040000	**45ZA99**	804040007	**45ZC01**
9 in	60°	804040000	**45ZC02**	804040007	**45ZC03**
9 in	90°	804040000	**45ZC04**	804040008	**45ZC05**
10 in	30°	804040000	**40D549**	804040008	**45ZC06**
10 in	45°	804040001	**40D550**	804040008	**45ZC07**
10 in	60°	804040001	**40D551**	804040008	**45ZC08**
10 in	90°	804040001	**40D552**	804040008	**45ZC09**
12 in	30°	804040001	**40D553**	804040008	**45ZC10**
12 in	45°	804040001	**40D554**	804040009	**45ZC11**
12 in	60°	804040001	**40D555**	804040009	**45ZC12**
12 in	90°	804040002	**40D556**	804040009	**45ZC13**
14 in	30°	804040002	**29RN24**	804040009	**45ZC14**
14 in	45°	804040002	**29RN25**	804040009	**45ZC15**
14 in	60°	804040002	**29RN26**	804040009	**45ZC16**
14 in	90°	804040002	**29RN27**	804040010	**45ZC17**
16 in	30°	804040003	**29RN28**	804040010	**45ZC18**
16 in	45°	804040003	**29RN29**	804040010	**45ZC19**
16 in	60°	804040003	**29RN30**	804040010	**45ZC20**
16 in	90°	804040003	**29RN31**	804040010	**45ZC21**
Quick-Fit Tubed Elbow					
4 in	30°	801000370	**45ZC22**	801000364	**45ZA60**
4 in	45°	801000371	**45ZC24**	801000364	**45ZA61**
4 in	60°	801000371	**45ZC26**	801000364	**45ZA62**
4 in	90°	801000371	**45ZC28**	801000365	**45ZA63**
4 in	90°	—	—	801000365	**45ZA65**
5 in	30°	801000367	**45ZC30**	801000365	**45ZA67**
5 in	45°	801000367	**45ZC32**	801000365	**45ZC33**
5 in	60°	801000368	**45ZC34**	801000365	**45ZC35**
5 in	90°	801000368	**45ZC36**	801000365	**45ZA72**
5 in	90°	—	—	801000365	**45ZA74**
6 in	30°	801000368	**45ZC38**	801000366	**45ZA75**
6 in	45°	801000368	**45ZC40**	801000366	**45ZA76**
6 in	60°	801000368	**45ZC42**	801000366	**45ZA77**
6 in	90°	801000369	**45ZC44**	801000366	**45ZA78**
6 in	90°	—	—	801000366	**45ZA80**
8 in	30°	801000369	**45ZC46**	801000366	**45ZC47**
8 in	45°	801000369	**45ZC48**	801000367	**45ZC49**
8 in	60°	801000369	**45ZC50**	801000369	**45ZC51**
8 in	90°	801000369	**45ZC52**	801000367	**45ZC53**

40D607

29RP02

29RP09

29RP16

Duct Fitting Dia.	GALVANIZED Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Quick-Fit Manual Blast Gate				
4 in	801000229	**40D607**	801000222	**45ZD21**
5 in	801000230	**45ZD22**	801000222	**45ZD23**
6 in	801000230	**40D608**	801000223	**45ZD24**
7 in	801000230	**45ZD25**	801000222	**45ZD26**
8 in	801000230	**40D609**	801000222	**45ZD27**
9 in	801000230	**45ZD28**	801000223	**45ZD29**
10 in	801000228	**40D610**	801000221	**45ZD30**
12 in	801000229	**40D611**	801000221	**45ZD31**
14 in	801000227	**29RN64**	801000221	**45ZD32**
16 in	801000227	**29RN65**	801000220	**45ZD33**
Quick-Fit NFMES Manual Blast Gate				
4 in	801000463	**29RP02**	—	—
6 in	801000463	**29RP03**	—	—
8 in	801000463	**29RP04**	—	—
10 in	801000463	**29RP05**	—	—
12 in	801000463	**29RP06**	—	—
14 in	801000463	**29RP07**	—	—
16 in	801000463	**29RP08**	—	—
Quick-Fit SD Automatic Blast Gate				
4 in	801000495	**29RP09**	—	—
6 in	801000496	**29RP10**	—	—
8 in	801000497	**29RP11**	—	—
10 in	801000494	**29RP12**	—	—
12 in	801000494	**29RP13**	—	—
14 in	801000491	**29RP14**	—	—
16 in	801000491	**29RP15**	—	—
Quick-Fit NFES Automatic Blast Gate				
4 in	801000245	**29RP16**	—	—
6 in	801000246	**29RP17**	—	—
8 in	801000247	**29RP18**	—	—
10 in	801000243	**29RP19**	—	—
12 in	801000243	**29RP20**	—	—
14 in	801000240	**29RP21**	—	—
16 in	801000240	**29RP22**	—	—

29RN94

40D603

29RP30

29RP37

29RP43

45ZD34

45ZD80

29RP23

40D632

45ZD87

40D532

Duct Fitting Dia.	GALVANIZED Mfr. Model	GALVANIZED Item No.	STAINLESS STEEL Mfr. Model	STAINLESS STEEL Item No.
Quick-Fit Bell Mouth Adapter				
4 in	801000435	**29RN94**	—	—
6 in	801000435	**29RN95**	—	—
8 in	801000436	**29RN96**	—	—
10 in	801000434	**29RN97**	—	—
12 in	801000434	**29RN98**	—	—
14 in	801000434	**29RN99**	—	—
16 in	801000434	**29RP01**	—	—
Quick-Fit Router Hood				
4 in	801000438	**40D603**	—	—
5 in	801000438	**45ZD20**	—	—
6 in	801000438	**40D604**	—	—
8 in	801000438	**40D605**	—	—
10 in	801000438	**40D606**	—	—
Quick-Fit Vibration Isolator				
4 in	801000532	**29RP30**	—	—
6 in	801000532	**29RP31**	—	—
8 in	801000532	**29RP32**	—	—
10 in	801000531	**29RP33**	—	—
12 in	801000531	**29RP34**	—	—
14 in	801000530	**29RP35**	—	—
16 in	801000530	**29RP36**	—	—
Quick-Fit Ball Joint				
4 in	801000214	**29RP37**	—	—
6 in	801000215	**29RP38**	—	—
8 in	801000214	**29RP39**	—	—
10 in	801000214	**29RP40**	—	—
12 in	801000213	**29RP41**	—	—
14 in	801000213	**29RP42**	—	—
Quick-Fit Jet Cap				
6 in	801000459	**29RP43**	—	—
8 in	801000459	**29RP44**	—	—
10 in	801000459	**29RP45**	—	—
12 in	801000459	**29RP46**	—	—
14 in	801000458	**29RP47**	—	—
16 in	801000458	**29RP48**	—	—
T3 Quick-Fit Floor Sweep				
4 in	801000406	**45ZD34**	—	—
5 in	801000406	**45ZD35**	—	—
6 in	801000406	**45ZD36**	—	—
7 in	801000406	**45ZD37**	—	—
Quick-Fit Pipe Hanger				
4 in	801000425	**45ZD80**	—	—
5 in	801000425	**45ZD81**	—	—
6 in	801000425	**45ZD82**	—	—
7 in	801000426	**45ZD83**	—	—
8 in	801000426	**45ZD84**	—	—
9 in	801000426	**45ZD85**	—	—
10 in	801000421	**45ZD86**	—	—
Quick-Fit HJ Pipe Hanger				
4 in	801000417	**29RP23**	—	—
6 in	801000417	**29RP24**	—	—
8 in	801000418	**29RP25**	—	—
10 in	801000416	**29RP26**	—	—
12 in	801000416	**29RP27**	—	—
14 in	801000416	**29RP28**	—	—
16 in	801000416	**29RP29**	—	—
Quick-Fit Hose Adapter				
4 in	804040196	**40D632**	804040198	**45ZD92**
5 in	804040196	**45ZD93**	804040198	**45ZD94**
6 in	804040196	**40D633**	804040198	**45ZD95**
7 in	804040196	**45ZD96**	804040198	**45ZD97**
8 in	804040196	**40D634**	804040199	**45ZD98**
9 in	804040196	**45ZD99**	804040199	**45ZE01**
10 in	804040197	**40D635**	804040199	**45ZE02**
12 in	804040197	**40D636**	804040199	**45ZE03**
14 in	804040197	**29RN34**	804040199	**45ZE04**
16 in	804040197	**29RN35**	804040199	**45ZE05**
Quick-Fit Rigid Steel Hose				
4 in	801000515	**45ZD87**	—	—
5 in	801000515	**45ZD88**	—	—
6 in	801000515	**45ZD89**	—	—
7 in	801000515	**45ZD90**	—	—
8 in	801000515	**45ZD91**	—	—
Quick-Fit Butterfly Valve				
4 in	801000525	**40D532**	801000523	**45ZA47**
5 in	801000525	**45ZA48**	801000523	**45ZA49**
6 in	801000526	**40D533**	801000523	**45ZA50**
7 in	801000526	**45ZA51**	801000523	**45ZA52**
8 in	801000526	**40D534**	801000524	**45ZA53**
9 in	801000526	**45ZA54**	801000524	**45ZA55**
10 in	801000525	**40D535**	801000523	**45ZA56**
12 in	801000524	**40D536**	801000522	**45ZA57**
14 in	801000524	**29RN05**	801000522	**45ZA58**
16 in	801000524	**29RN06**	801000522	**45ZA59**

Find HVAC Sheet Metal Tools on page 814, and on Grainger.com

Square

Round

Actuator

Volume Control Dampers

Designed to regulate the volume of air moving through a duct system. Can be used as a positive shutoff or for automatic control. Install with blades in horizontal position. 24V and 120V actuators sold separately.

Duct W	Duct H	3V BLADE Item No.	AIRFOIL BLADE Item No.	EXTRUDED BLADE Item No.
Square, Dayton				
10 in	10 in	2LRY6	3HGN2	3HGP3
12 in	12 in	2LRY7 *	3HGN3 *	3HGP4 *
16 in	16 in	2LRY8	3HGN4	3HGP5
18 in	18 in	2LRY9	3HGN5	3HGP6
24 in	24 in	2LRZ1 *	3HGN6 *	3HGP7 *

** AMCA certified. All dampers shown herein meet AMCA air performance ratings, but AMCA selects, tests, and certifies only the 12" x 12" and 24" x 24" sizes in an effort to equalize costs for small and large manufacturers.*

Duct Dia.	Item No.
Round Single-Blade, Dayton	
6 in	3HGN7
8 in	3HGN8
10 in	3HGN9
12 in	3HGP1
14 in	3HGP2

Voltage	W	H	D	Item No.
Actuators (Power Open/Spring Close), Approved Vendor				
24V AC/DC	3 ⅞ in	6 ¾ in	2 ¼ in	2LRZ2
120V AC +/-10%	3 ⅞ in	6 ¾ in	2 ¼ in	2LRZ3

Type	Galvanized Steel Frame	Extruded Aluminum Frame	Opposed Blades	Round, Single-Blade	TPE Seals	Silicone Seals	Velocity Rating (fpm)	Pressure Rating (in. wg)	Max. Temp. (°F)
Square 3V	X		X		X		2000-3000	2.5-6.0	100
Square Airfoil	X		X		X		2500-4000	3.0-8.0	100
Square Extruded		X	X			X	3000-6000	2.0-6.0	180
Round Single-Blade	X			X		X	3000	4	180

5NKK1

Motorized Hat Channel-Style Dampers

- 100 to 240V
- 50/60 Hz with end switch
- Exhaust or supply
- Mount: horizontal or vertical
- Max. velocity: 3500 fpm

Regulate airflow in medium- and low-pressure commercial applications. TPV louver seals and stainless steel jambs minimize leakage. Channel frames for installations inside walls or ductwork.

Actuator is internally installed. Mill-finish extruded aluminum frame (5" deep x 0.1" thick) and louvers (0.08" thick). Plated steel linkage and pivot pins.

Overall Square	Sq. Opening Req.	Free Area	Motor Bracket Extension*	Item No.
Single Panel, Power Open, Spring Return				
11 ¾ in	12 in	0.372 sq ft	11 ½ in	5NKK1
15 ¾ in	16 in	1.05 sq ft	11 ½ in	5NKK2
19 ¾ in	20 in	2.126 sq ft	11 ½ in	5NKK3
23 ¾ in	24 in	3.172 sq ft	11 ½ in	5NKK4
29 ¾ in	30 in	5.107 sq ft	11 ½ in	5NKK5
35 ¾ in	36 in	7.559 sq ft	11 ½ in	5NKK6
41 ¾ in	42 in	10.49 sq ft	11 ½ in	5NKK7
47 ¾ in	48 in	13.9 sq ft	11 ½ in	5NKK8

** From damper frame to end of bracket.*

Snap-On Backdraft Damper

These backdraft dampers are low-leakage control dampers for use in systems requiring airflow modulation or control. They feature round, spring-assisted blades that open to allow airflow in only one direction and can be used to release hot exhaust from heating systems without allowing cold air inside. Suitable for use in heating and air conditioning systems.

Duct Dia.	Damper Dia.	Blade Material	Item No.
14 in	13 ¾ in	Galvanized Steel	4JA30

Butterfly Dampers

Corrosion- and chemical-resistant butterfly dampers help to regulate and control the volume of air moving through round PVC duct systems and are ideal for use in harsh environments. Included locking screw helps secure the damper's round blade in position. Dampers resist most acids, aliphatic solutions, bases, halogens, oxidants, and salts making them suitable for use in corrosive fume exhaust applications. Meet ASTM D1784 standard.

6XME9

Duct Dia.	Blade Material	Item No.
4 in	Type 1 PVC	6XME9
6 in	Galvanized Steel	6XMF0
8 in	Galvanized Steel	6XMF1
10 in	Galvanized Steel	6XMF2
12 in	Galvanized Steel	6XMF3

Round

Square & Rectangular

Dayton

Fire Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Fire-resistance rating: 1½ hr.
- Max. temp.: 165°F
- Curtain blade style (square & rectangular); single-blade (round)
- NFPA 80 requires retaining angles

Dynamic

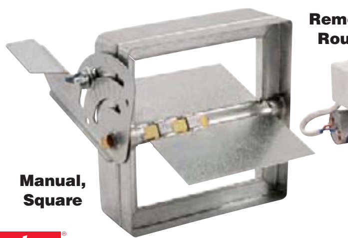
- Steel spring-assist closing
- Velocity rating: 2,000 fpm
- Pressure rating: 4" wg

Static—For zero-pressure during damper closing. Vertical-mount models close via gravity. Horizontal models have spring-assist closing.

Nom. Duct Dia.	Damper D	DYNAMIC, VERTICAL OR HORIZONTAL MOUNT Item No.
Round*		
4 in	13 ⅝ in	**2TFZ4**
6 in	13 ⅝ in	**2TFZ5**
8 in	13 ⅝ in	**2TFZ6**
10 in	13 ⅝ in	**2TFZ7**
12 in	13 ⅝ in	**2TFZ8**
14 in	13 ⅝ in	**2TFZ9**
Accessory		
165°F Fusible Link for Round		**2TGJ3**

Nom. Duct W	Nom. Duct H	DYNAMIC, VERTICAL OR HORIZONTAL MOUNT Item No.	STATIC, VERTICAL MOUNT Item No.	STATIC, HORIZONTAL MOUNT Item No.	RECOMMENDED RETAINING ANGLE Item No.
Square and Rectangular					
6 in	6 in	**2TGE6**	**2TGA1**	**2TGC8**	**2TGG4**
8 in	8 in	**2TGE7**	**2TGA2**	**2TGC9**	**2TGG5**
10 in	6 in	**2TGE8**	**2TGA3**	**2TGD1**	**2TGG6**
10 in	10 in	**2TGE9**	**2TGA4**	**2TGD2**	**2TGG7**
12 in	6 in	**2TGF1**	**2TGA5**	**2TGD3**	**2TGG8**
12 in	8 in	**2TGF2**	**2TGA6**	**2TGD4**	**2TGG9**
12 in	10 in	**2TGF3**	**2TGA7**	**2TGD5**	—
12 in	12 in	**2TGF4**	**2TGA8**	**2TGD6**	**2TGH2**
14 in	12 in	**2TGF5**	**2TGA9**	**2TGD7**	**2TGH3**
14 in	14 in	**2TGF6**	**2TGC1**	**2TGD8**	**2TGH4**
16 in	8 in	**2TGF7**	**2TGC2**	**2TGD9**	**2TGH5**
16 in	12 in	**2TGF8**	**2TGC3**	**2TGE1**	**2TGH6**
16 in	16 in	**2TGF9**	**2TGC4**	**2TGE2**	**2TGH7**
18 in	18 in	**2TGG1**	**2TGC5**	**2TGE3**	**2TGH8**
24 in	12 in	**2TGG2**	**2TGC6**	**2TGE4**	**2TGH9**
24 in	24 in	**2TGG3**	**2TGC7**	**2TGE5**	**2TGJ1**
Accessory					
165°F Fusible Link for Square or Rectangular Dampers					**2TGJ2**

** Retaining plate included for installation.*



Manual, Square

Remote, Round

Dayton

Balancing Dampers

- Galvanized steel
- Pressure rating: 1.0" wg
- Velocity rating: 2000 fpm
- Max. temp.: 180°F

Additional sizes available on Grainger.com®.

Manual—Designed to regulate airflow, but not intended for use where positive shut-off or automatic control is needed. Features manual hand quadrant that can be locked in place.

Remote—Offer the same function as manual balancing dampers with the additional ability to control damper remotely with 48C165 at wall plate or diffuser. Includes factory-mounted 9V actuator. Optional accessories sold separately.

WARNING: utilizing any controller other than 48C165 to adjust damper will void damper warranty.

Duct W (in.)	Duct H (in.)	Item No.
Manual, Square & Rectangular		
6 in	6 in	**22CV77**
8 in	6 in	**22CV84**
8 in	8 in	**22CV78**
10 in	6 in	**22CV85**
10 in	8 in	**22CV82**
10 in	10 in	**22CV80**
12 in	6 in	**22CV81**
12 in	8 in	**22CV83**
12 in	10 in	**22CV86**
12 in	12 in	**22CV79**

Duct Dia. (in.)	Item No.
Manual, Round	
6 in	**2TFX7**
8 in	**2TFX8**
10 in	**2TFX9**
12 in	**2TFY1**
14 in	**2TFY2**
Remote, Round	
6 in	**48C159**
8 in	**48C160**
10 in	**48C161**
12 in	**48C162**

Description	Item No.
Remote Balancing Accessories	
Quick Control Remote Kit	**48C165**
Actuator Kit	**48C164**
Cable Assembly, 14 ft, Plenum-Rated	**48C170**
Cable Assembly, 50 ft, Plenum-Rated	**48C171**
Cable Coupler Kit	**48C163**
Wall/Ceiling Plate, White	**48C167**

Round

Smoke, Square

Fire/Smoke, Square

Dayton

amca CERTIFIED RATINGS AIR PERFORMANCE

Motorized Smoke & Fire/Smoke Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Smoke leakage rating: Class II
- 3V blade (square); single-blade (round)
- Velocity rating: 2000 fpm (square); 3000 fpm (round)

Smoke—Factory-installed actuator forces damper blades to close in emergency smoke control situations.

Fire/Smoke—Designed for closure in emergency fire and smoke situations. Factory-installed actuators are prewired to a single junction box.

- Fire-resistance rating: 1½ hr.

Nom. Duct Dia.	D	24V AC Item No.	120V AC Item No.
Smoke, Round			
6 in	8 ¼ in	**3HGH2**	**3HGH7**
8 in	8 ¼ in	**3HGH3**	**3HGH8**
10 in	8 ¼ in	**3HGH4**	**3HGH9**
12 in	8 ¼ in	**3HGH5**	**3HGJ1**
14 in	8 ¼ in	**3HGH6**	**3HGJ2**
Fire/Smoke, Round*			
6 in	15 ⅝ in	**3HGK6**	**3HGL4**
8 in	15 ⅝ in	**3HGK7**	**3HGL5**
10 in	15 ⅝ in	**3HGK8**	**3HGL6**
12 in	15 ⅝ in	**3HGK9**	**3HGL7**
14 in	15 ⅝ in	**3HGL1**	**3HGL8**
16 in	15 ⅝ in	**3HGL2**	**3HGL9**
18 in	15 ⅝ in	**3HGL3**	**3HGN1**

Nom. Duct W	Nom. Duct H	24V AC Item No.	120V AC Item No.	RECOMMENDED RETAINING ANGLE Item No.
Smoke, Square				
8 in	8 in	**3HGG1** **	**3HGG6** **	**2TGG5**
10 in	10 in	**3HGG2** **	**3HGG7** **	**2TGG7**
16 in	16 in	**3HGG3** **	**3HGG8** **	**2TGH7**
18 in	18 in	**3HGG4** **	**3HGG9** **	**2TGH8**
24 in	24 in	**3HGG5** **	**3HGH1** **	**2TGJ1**
Fire/Smoke, Square				
8 in	8 in	**3HGJ3** **	**3HGJ9** **	**2TGG5**
10 in	10 in	**3HGJ4** **	**3HGK1** **	**2TGG7**
12 in	12 in	**3HGJ5** **	**3HGK2** **	**2TGH2**
16 in	16 in	**3HGJ6** **	**3HGK3** **	**2TGH7**
18 in	18 in	**3HGJ7** **	**3HGK4** **	**2TGH8**
24 in	24 in	**3HGJ8** **	**3HGK5** **	**2TGJ1**

** Retaining plate included for installation. **AMCA certified.*

Dayton

Insulated Access Doors

- 1" fiberglass insulation
- Rated up to 4" wg
- NFPA 80 requires access to fire dampers

Door H	Door W	Rough Opening H	Rough Opening W	HINGED SINGLE CAM LOCK Item No.	DOUBLE CAM LOCK Item No.
6 in	6 in	5 ½ in	5 ½ in	**2TFX2**	**5EFT0**
8 in	8 in	7 ½ in	7 ½ in	**2TFX3**	**5EFT1**
10 in	10 in	9 ½ in	9 ½ in	**2TFX4**	**5EFT2**
12 in	12 in	11 ½ in	11 ½ in	**2TFX5**	**5EFT3**
14 in	14 in	13 ½ in	13 ½ in	**2TFX6**	**5EFT4**

Flexible Duct

Insulated

- Rated positive pressure: 10" WC per UL 181
- Velocity: 5,000 fpm
- Standard lengths: 25 ft.
- Flame spread/smoke developed: < 25 / < 50
- Rated for indoor use

Recommended operating press.: ¾" WC neg., all dia.; 6" WC pos., all dia. except 4" WC pos. for 14" to 18" dia. Temp. range: uninsulated duct -20° to 180°F; insulated duct -20° to 140°F @ max. press. and -20° to 180°F @ 2" pos. WC max.

Code Compliance—UL 181, NFPA 90A and 90B, ICC, HUD, Cities of Chicago, New York, San Francisco, and County of Dade (Fla.).

Note: Check with the local code body having jurisdiction in your area to determine applicable codes.

UV Exposure—Flexible duct is for indoor use only and should not be installed in direct or indirect sunlight. Installations where sunlight enters through turbine vents, skylights, canopy windows, etc., should be avoided.

Insulated—Feature double-ply vapor barrier with tridirectional reinforcements. All-purpose ducts are gray polyester. Premium ducts are metallized polyester.

Note: R-Values are in accordance with ADC Flexible Duct Performance and Installation Standards (2003) using ASTM C-518 at installed wall thickness on flat insulation only.

Uninsulated—Class 1 air connector is a triple lamination of metallized polyester, aluminum foil, and polyester film, encapsulating a steel wire helix.

UPC No.	Flex. Duct Inside Dia.	Flex. Duct Wall Thickness	Vapor Transmission	Mfr. Model	Item No.
All Purpose Insulated, R-Value = 4.2 / Class 1					
70	4 in	1 ¼ in	0.6	17002504	**3F327**
70	6 in	1 ¼ in	0.6	17002506	**3F328**
70	8 in	1 ¼ in	0.6	17002508	**3F329**
70	10 in	1 ¼ in	0.6	17002510	**3F330**
70	12 in	1 ¼ in	0.6	17002512	**3F331**
70	14 in	1 ¼ in	0.6	17002514	**5E279**
70	16 in	1 ¼ in	0.6	17002516	**5E280**
All-Purpose Insulated, R-Value = 6.0					
76	4 in	2 in	0.6	17602504	**5E282**
76	6 in	2 in	0.6	17602506	**5E283**
76	8 in	2 in	0.6	17602508	**5E284**
76	10 in	2 in	0.6	17602510	**5E285**
76	12 in	2 in	0.6	17602512	**5E286**
76	14 in	2 in	0.6	17602514	**5E287**
76	18 in	2 in	0.6	17602518	**5E289**
All-Purpose Insulated, R-Value = 8.0					
78	4 in	2 ½ in	0.6	17802504	**4TVN6**
78	6 in	2 ½ in	0.6	17802506	**4TVN7**
78	8 in	2 ½ in	0.6	17802508	**4TVN8**
78	10 in	2 ½ in	0.6	17802510	**4TVN9**
78	12 in	2 ½ in	0.6	17802512	**4TVP1**
78	14 in	2 ½ in	0.6	17802514	**4TVP2**
78	16 in	2 ½ in	0.6	17802516	**4TVP3**
78	18 in	2 ½ in	0.6	17802518	**4TVP5**
Premium Insulated, R-Value = 4.2					
30	4 in	1 ¼ in	0.05	13002504	**3F322**
30	6 in	1 ¼ in	0.05	13002506	**3F323**
30	8 in	1 ¼ in	0.05	13002508	**3F324**
30	10 in	1 ¼ in	0.05	13002510	**3F325**
30	12 in	1 ¼ in	0.05	13002512	**3F326**
30	14 in	1 ¼ in	0.05	13002514	**5E268**
Premium Insulated, R-Value = 6.0					
36	4 in	2 in	0.05	13602504	**5E271**
36	6 in	2 in	0.05	13602506	**5E272**
36	8 in	2 in	0.05	13602508	**5E273**
36	10 in	2 in	0.05	13602510	**5E274**
36	12 in	2 in	0.05	13602512	**5E275**
Premium Insulated, R-Value = 8.0					
31	4 in	2 ½ in	0.05	13102504	**4PDN5**
31	6 in	2 ½ in	0.05	13102506	**4TVL9**
31	8 in	2 ½ in	0.05	13102508	**4TVN1**
31	10 in	2 ½ in	0.05	13102510	**4TVN2**
31	12 in	2 ½ in	0.05	13102512	**4TVN3**
31	14 in	2 ½ in	0.05	13102514	**4TVN4**
31	16 in	2 ½ in	0.05	13102516	**4TVN5**
31	18 in	2 ½ in	0.05	13102518	**4TVP4**
Uninsulated					
50	3 in	⅛ in	0.05	05102503	**3F332**
50	4 in	⅛ in	0.05	05102504	**3F333**
50	6 in	⅛ in	0.05	05102506	**3F334**
50	8 in	⅛ in	0.05	05102508	**3F335**
50	10 in	⅛ in	0.05	05102510	**3F336**
50	12 in	⅛ in	0.05	05102512	**5E290**
50	14 in	⅛ in	0.05	05102514	**5E291**
50	16 in	⅛ in	0.05	05102516	**5E292**
50	18 in	⅛ in	0.05	05102518	**5E293**

Diffusers, Dampers, and Collars

4 WAY Adjustable Diffuser

Diffusers—Round diffusers, with overlapping step-down rings, are compatible with butterfly dampers. Square diffusers provide high-volume air diffusion; multilouver models control air volume. Perforated diffusers have a clean, unbroken-plane look and reduce noise in low-volume air applications.

Diffusers, Adjustable Filtered—Separate directional diffusers on 4 sides, to provide air flow control. Compatible with T-bar ceilings. Connect duct to back pan and snap closed. Back pan and electrostatic filter included.

Butterfly Dampers—Adjust through center hole in diffuser; removable handle included.

4JRK8

4MJU8

4MJW6

4MJV3

4JRL7

Description	Diffuser Duct Size	Brand	Item No.
Diffusers, White Finish			
Round, Ceiling, Step-Down, For Use with 4JRL4	6 in	—	**4JRK8**
Round, Ceiling, Step-Down, For Use with 4JRL5	8 in	—	**4JRK9**
Round, Ceiling, Step-Down, For Use with 4JRL6	10 in	—	**4JRL1**
Square, Ceiling, 3-Way Multilouver	6 in	—	**4MJJ2**
	8 in	—	**4MJJ3**
	10 in	—	**4MJJ4**
Square, Ceiling, 4-Way Multilouver	6 in	—	**4MJJ5**
	8 in	—	**4MJJ6**
	10 in	—	**4MJJ7**
Square, Perforated, Supply, Lay-In T-Bar	8 in	—	**4MJU8**
	10 in	—	**4MJU9**
Square, Perforated, Supply, Lay-In T-Bar with Deflector Control, For Use with 4JRN2, 4JRN3, 4JRN4 or 4JRN5	6 to 14 in	—	**4JRL2**
Square, Perforated, Return, Lay-In T-Bar, Duct Size 8"	—	—	**4MJV1**
Square, Perforated, Return, Lay-In T-Bar, Duct Size 6 x 14"	—	—	**4MJU7**
Square, Perforated, Return, Lay-In T-Bar with Filter Frame and Insulation, For Use with 4JRN2, 4JRN3, 4JRN4 or 4JRN5	—	—	**4MJV6**
, , Lay-In T-Bar, Egg Crate, Filter Frame	—	—	**4MJW6**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL7	6 in	—	**4MJU2**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL8	8 in	—	**4MJU3**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRL9	10 in	—	**4MJU4**
Square, Ceiling, Lay-In T-Bar, 2 Cone with Collar, For Use with 4JRN1	12 in	—	**4MJU5**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL7	6 in	—	**4MJV2**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL8	8 in	—	**4MJV3**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRL9	10 in	—	**4MJV4**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Collar, For Use with 4JRN1	12 in	—	**4MJV5**
Square, Ceiling, Lay-In T-Bar, 3 Cone with Insulation, For Use with 4JRN2, 4JRN3, 4JRN4, 4JRN5, 4JRL7, 4JRL8, 4JRL9, 4JRN1	6 to 12 in	—	**4JRL3**
Diffusers, 4-Way Adjustable Filtered, White Powder Coated Epoxy			
Square, Ceiling, with Filter	6 in	4 Way Diffuser	**36N451**
	8 in	4 Way Diffuser	**36N452**
	10 in	4 Way Diffuser	**36N453**
	12 in	4 Way Diffuser	**36N454**
	14 in	4 Way Diffuser	**36N455**
	16 in	4 Way Diffuser	**36N456**
Replacement Filter, (2) Sets of 4 Filters, For Use with 36N451, 36N452, 36N453, 36N454, 36N455, 36N456		4 Way Diffuser	**36N457**
Replacement Filter, (10) Sets of 4 Filters, For Use with 36N451, 36N452, 36N453, 36N454, 36N455, 36N456		4 Way Diffuser	**36N458**
Butterfly Dampers, Brown Finish			
Round, Ceiling, For Use with 4JRK8	6 in	—	**4JRL4**
Round, Ceiling, For Use with 4JRK9	8 in	—	**4JRL5**
Round, Ceiling, For Use with 4JRL1	10 in	—	**4JRL6**
Round, Snap-on, For Use with 4JRN2	6 in	—	**4JRL7**
Round, Snap-on, For Use with 4JRN3	8 in	—	**4JRL8**
Round, Snap-on, For Use with 4JRN4	10 in	—	**4JRL9**
Round, Snap-on, For Use with 4JRN5	12 in	—	**4JRN1**
Collars, Galvanized Steel			
Round, Snap On Collar, For Use with 4JRL7	6 in	—	**4JRN2**
Round, Snap On Collar, For Use with 4JRL8	8 in	—	**4JRN3**
Round, Snap On Collar, For Use with 4JRL9	10 in	—	**4JRN4**
Round, Snap On Collar, For Use with 4JRN1	12 in	—	**4JRN5**

4MJP9

Return Air Grilles

Surface treatments are dual electrocoated/powder-coated for excellent corrosion resistance. All-steel construction; white finish. Filter Grilles have hinged face and accommodate standard 1" filters, sold separately on page 3047.

Note: Actual wall opening should be ⅜" larger than max. duct size.

Max. Duct Height (in.)	Max. Duct Width (in.)	Overall H (in.)	Overall W (in.)	½ in Bar Spacing Item No.	⅓ in Bar Spacing Item No.
Return Air Grille					
6 in	6 in	7 ¾ in	7 ¾ in	**4MJN2**	—
	10 in	7 ¾ in	11 ¾ in	**4JRR6**	**4MJP5**
	12 in	7 ¾ in	13 ¾ in	**4JRR7**	**4MJP7**
	14 in	7 ¾ in	15 ¾ in	—	**4MJP9**
	24 in	7 ¾ in	25 ¾ in	**4MJP1**	**4MJR6**
8 in	8 in	9 ¾ in	9 ¾ in	**4MJN3**	**4MJP4**
	12 in	9 ¾ in	13 ¾ in	**4MJN5**	—
	14 in	9 ¾ in	15 ¾ in	—	**4MJR1**
	16 in	9 ¾ in	17 ¾ in	—	**4MJR3**
	24 in	9 ¾ in	25 ¾ in	—	**4MJR7**
	30 in	9 ¾ in	31 ¾ in	**4MJP3**	**4MJR9**
10 in	10 in	11 ¾ in	11 ¾ in	**4MJN4**	**4MJP6**
	14 in	11 ¾ in	15 ¾ in	**4MJN7**	—
12 in	12 in	13 ¾ in	13 ¾ in	**4JRR8**	**4MJP8**
14 in	14 in	15 ¾ in	15 ¾ in	**4JRT1**	**4MJR2**
16 in	16 in	17 ¾ in	17 ¾ in	**4MJN9**	**4MJR4**
20 in	14 in	21 ¾ in	15 ¾ in	**4MJN8**	—
	20 in	21 ¾ in	21 ¾ in	**4JRT2**	**4MJR5**
24 in	24 in	25 ¾ in	25 ¾ in	**4MJP2**	—
Return Air Baseboard Grille					
6 in	14 in	7 ¾ in	15 ¾ in	—	**4MJW2**
8 in	14 in	9 ¾ in	15 ¾ in	—	**4MJW3**
	30 in	9 ¾ in	31 ¾ in	—	**4MJW5**
Filtered Return Air Grille					
12 in	12 in	14 31/50 in	14 31/50 in	**4MJT1**	—
	24 in	14 31/50 in	26 31/50 in	**4JRT9**	—
14 in	14 in	16 31/50 in	16 31/50 in	**4MJT2**	—
	20 in	16 31/50 in	22 31/50 in	**4MJT3**	—
	24 in	16 31/50 in	26 31/50 in	**4MJT7**	—
	30 in	16 31/50 in	32 31/50 in	**4MJT9**	—
20 in	14 in	22 31/50 in	16 31/50 in	**4JRT5**	—
	16 in	22 31/50 in	18 31/50 in	**4JRT6**	—
	20 in	22 31/50 in	22 31/50 in	**4JRT7**	—
	25 in	22 31/50 in	27 31/50 in	**4JRU1**	—
	30 in	22 31/50 in	32 31/50 in	**4MJU1**	—
24 in	24 in	26 31/50 in	26 31/50 in	**4MJT8**	—
25 in	14 in	27 31/50 in	16 31/50 in	**4MJT4**	—
	16 in	27 31/50 in	18 31/50 in	**4MJT5**	—
	20 in	25 in	20 in	**4JRT8**	—
30 in	20 in	32 31/50 in	22 31/50 in	**4MJT6**	—

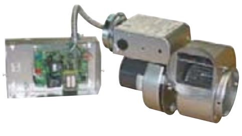
High-Temperature Sidewall Power Venters

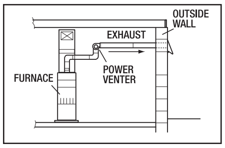
115V. Mechanically vent Category 1 heaters through a wall, eliminating the need for a traditional chimney. Include UC1 heater interlock control and fan proving switch. Interlock with any 24/120VAC burner circuit. Feature adjustable pre/post purge, LED status indicators, and fault code memory. Vent hood 4C845 is recommended for power venters 4KA72 and 4KA73.

Ideal for sidewall vent furnaces, boilers, water heaters, pool heaters, and unit heaters. Use for electric to gas conversions, heating equipment upgrades, new construction, and replacing chimneys.

Vent Pipe Dia. (in.)	BTU/Hr. Input (000's)	Max. Pipe Length at Stack Temp. 300°F	400°F	500°F	Amps	H (in.)	W (in.)	D (in.)	Inlet and Outlet Dia. (in.)	Mfr. Model	Item No.
4	25-100	100	100	100	1.26	7 ⅞ in	10 ¼ in	7 in	4	HSJ	**4KA72**
4	150	100	60	27	1.26	7 ⅞ in	11 in	7 in	4	HS1	**4KA73**
	200	87	57	35							
6	150-200	100	100	67							
	250	100	92	—							
6	300-400	100	100	100	1.51	9 ¼ in	11 ½ in	8 ½ in	6	HS2	**4KA74**
	450	100	100	100							
	500	100	72	—							
8	350-450	100	100	100							
	500	100	100	—							
8	500	100	100	—	2.60	12 ½ in	13 in	12 in	8	HS3	**4KA75**
	600	100	100	—							
	700	100	100	—							
10	500	100	100	—							
	600	100	100	—							
	700	21	100	—							

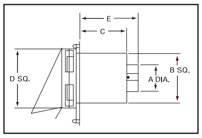
TJERNLUND





TJERNLUND

High-Temperature Vent Hoods



Designed to efficiently terminate horizontal vent runs handling flue gases from furnaces, unit heaters, and boilers. Made of 18-ga. corrosion-resistant aluminum alloy. 4C845 has built-in heat shield which provides clearance from combustible material contained in walls. Can be used with sidewall power venters, this page.

A, Dia. (in.)	B, Sq. (in.)	C (in.)	D, Sq. (in.)	E (in.)	Mfr. Model	Item No.
3 in	6 ¼ in	8 ¼ in	10 in	10 in	VH1-3	**14U196**
4 in	7 ½ in	7 ⅛ in	9 in	8 ⅞ in	VH1-4	**4C845**
6 in	8 ½ in	7 ⅞ in	12 in	9 ½ in	VH1-6	**6KXZ2**
8 in	16 in	7 ¾ in	18 ⅜ in	20 in	VH1-8	**6KXZ3**
10 in	16 in	7 ¾ in	18 ⅜ in	20 in	VH!-10	**6KXZ4**

Water Heater Vent Packages

TJERNLUND

Used to vent millivolt gas water heaters up to 75 ft. away from a sidewall. Upgrade water heaters from electric to gas in renovations or new construction where no chimney exists. Wired with 25-ft. control cable. Linear limit spill switch connects to thermocouple junction adapter to lock out heater if draft is insufficient. Inlet and outlet are 3" on 5C083, 4" on 2FRU6. Post-purge timer keeps unit operating at end of burner cycle. Gas diaphragm switch with aluminum tube connection turns unit on and off with gas flow to water heater. Heavy-duty vent hood and 6-ft. power cord. CSA Certified.

Description	Mfr. Model	Item No.
Compatible w/Gas Waters Heater from 60,000 to 120,000 Btu; 115V, 1.26-Amp Motor	VP-3F	**2FRU6**
Compatible w/Gas Water Heaters Up to 60,000 Btu; 115V, 1-Amp Motor	VP-2F	**5C083**

Rooftop Inducers

TJERNLUND

- Powder-coated clamshell housing allows easy installation, inspection, and service
- Stainless steel blower wheel

Ideal solution for inaccessible and short-length vent connectors and chimneys, and for noise-sensitive locations. Optional rooftop stand supports weight of the inducer for metal chimney installations. Rooftop mounting maintains negative pressure throughout the entire vent system. ETL Listed to UL 378, UL 705, and CAN/CSA B255-M81.

Gas/Oil Applications, 5PWD8 and 5PWD9—Use to exhaust clothes dryer vents and exhaust chases serving multiple floors/sources. Pair with Controller 35UP43 for demand-based automatic speed control (sold separately on Grainger.com®). Also rated for use with non-condensing oil and gas heating equipment when installed with either 4KA76 (sold separately on Grainger.com®) or Interlock Controls 5PWE2 (sold separately, this page).

Solid Fuel Applications, Nos. 5PWE0 and 5PWE1—Use to increase fireplace draft to help eliminate fire starting and smoky backup problems. Included mounting kit attaches to both tile-lined and metal flues. Also includes wall-mount speed control.

Inducer

Universal Control Board

Rooftop Stand

Inlet and Outlet Dia. (in.)	Voltage	Amps	HP	H (in.)	W (in.)	D (in.)	Mfr. Model	Item No.
Gas/Oil Applications, Incl. Fan Proving Switch								
8	120	1.2	1/12 hp	18 in	16 in	16 in	RT750	**5PWD8**
12	120	5.8	½ hp	24 in	18 ½ in	18 ½ in	RT1500	**5PWD9**
Solid Fuel Applications, Incl. Wall-Mount Speed Control								
8	120	1.2	1/12 hp	18 in	16 in	16 in	RT750H	**5PWE0**
12	120	5.8	½ hp	24 in	18 ½ in	18 ½ in	RT1500H	**5PWE1**
Accessories								
Universal Control Board, For Use With 5PWD8 and 5PWD9							UCRT	**5PWE2**
Rooftop Stand, For Use With 5PWD8 and 5PWE0							RTS8	**5PWE3**
Rooftop Stand, For Use With 5PWD9 and 5PWE1							RTS12	**5PWE4**

Selection Guide

Item No.	Min. Chimney Inside Dia.*	BTU/Hr. Input, Gas with Draft Hood/Diverter	BTU/Hr. Input, Gas/Oil with Barometric Control	Max. Equivalent** Vent Length (ft.) @ 400ºF
Gas/Oil Applications				
5PWD8	8"	400,000-700,000	500,000-900,000	100
		700,000-900,000	900,000-1,200,000	50
	10"	700,000-1,000,000	900,000-1,200,000	100
		1,000,000-1,200,000	1,200,000-1,500,000	50
5PWD9	12"	1,000,000-2,000,000	1,200,000-2,700,000	100
		2,000,000-2,400,000	2,700,000-3,200,000	50
	14"	2,000,000-2,500,000	2,700,000-3,500,000	100
		2,500,000-2,700,000	3,500,000-3,700,000	50

**Select inducer based on the BTU/hr. input of appliance rather than diameter of appliance vent outlet or chimney. **To determine equivalent ft., add the total length of straight vent pipe plus 10 ft. for each 90º elbow and 5 ft. for each 45º elbow.*

Item No.	Max. Face Area of Fireplace†
Solid Fuel Fireplaces	
5PWE0	14 sq. ft.
5PWE1	28 sq. ft.

† Determine vertical and horizontal face opening of hearth in sq. ft. (If open on sides or back, total all openings.)

TJERNLUND

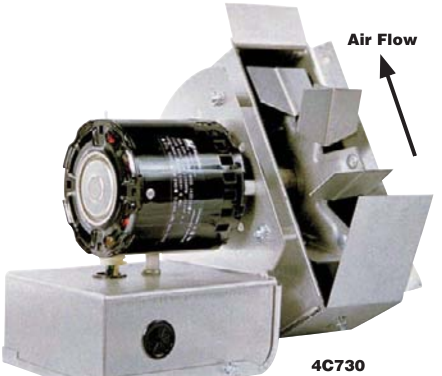
In-Line Centrifugal Fan Duct Booster

- Max. operating air temp.: 200°F; not for use with combustion exhaust
- Motor shaft should remain horizontal to the floor; mount on bottom of horizontal or side of vertical duct

Booster fits in round, square, or flat ducts as shallow as 3¼" deep. One 4" x 7" cutout is required. Unit attaches to ductwork with 4 sheet metal screws. May be actuated by 5C968 pressure switch. Steel housing and wheel. 1/70 HP, 1550 rpm, 115V, 60 Hz permanently lubricated motor is positioned out of the air stream. UL Listed.

Note: cfm rating is for 8" dia. pipe. Air flow will decrease slightly with smaller pipe.

CFM @ 0.000" SP	Max. Amps	Mfr. Model	Item No.
275	0.51 A	DB-2	**4C724**



4C730

In-Line Draft Inducers

TJERNLUND

Increase draft for gas- and oil-fired heating equipment. Variable draft control. Aluminized steel housing and wheel. 115V, 60 Hz. Use for long, horizontal vent connectors, undersized chimneys, and structures with a slight negative pressure. Fastening band included, except bandless screw attachment on Nos. 4C730 and 4C731.

Note: The performance table shows typical capacities when inducer is mounted on pipe sizes shown. Heating capacities shown are for 1000 Btu per cu. ft. of natural gas and for 139,000 Btu per gal. of #2 fuel oil.

INTERLOCK CONTROLS

To comply with national mechanical codes, draft inducer must be interlocked with heater it serves.

Fan Proving Switch—Monitors pressure within the inducer housing. Required with 4C730 and 4C731 for CSA certification.

Universal Interlock Control—Provides heater interlock with any 24/120VAC burner circuit. Features adjustable pre/post purge, LED status indicators, and fault code memory.

Item No.	HP	H (in.)	W (in.)	D (in.)	Cut Out Req.
4C730	1⁄70 hp	7 5⁄8 in	9 in	5 7⁄8 in	25⁄8 x 71⁄8
4C731	1⁄20 hp	9 1⁄8 in	9 1⁄2 in	7 in	31⁄8 x 85⁄8
4C732	1⁄4 hp	14 1⁄2 in	13 1⁄2 in	8 3⁄4 in	4 x 123⁄4
4C733	1⁄4 hp	17 in	14 3⁄4 in	10 in	41⁄4 x 143⁄4

Vent Pipe Dia. (in.)	Gas Firing with Draft Hood 100% Dilution Heater Btu Input @ 270°F	Gas Firing with Bar Draft Control 25% Dilution Heater Btu Input @ 390°F	Oil Firing with Bar Draft Control 15% Dilution Heater Btu Input @ 530°F	Mfr. Model	Item No.
In-line Draft Inducers					
3	69,000	72,000	58,000	DJ-3	4C730
4	105,000	109,000	92,000		
5	111,000	104,000	74,000		
6	100,000	34,000	25,000		
5	270,000	330,000	295,000	D-3	4C731
6	356,000	377,000	300,000		
7	360,000	330,000	230,000		
8	320,000	222,000	123,000		
8	900,000	1,200,000	1,100,000	I	4C732
9	1,110,000	1,330,000	1,100,000		
10	1,250,000	1,260,000	840,000		
12	1,030,000	710,000	400,000		
9	1,460,000	1,970,000	1,700,000	IL	4C733
10	2,080,000	2,460,000	1,900,000		
12	1,920,000	2,230,000	1,500,000		
14	1,840,000	1,470,000	825,000		
16	900,000	650,000	350,000		
18	650,000	440,000	200,000		
Interlock Controls					
Fan Proving Switch				PS1505	4C725
Universal Interlock Control				UC1	4KA76

41H443

5JLR1

OEM Replacement Draft Inducers

FASCO AC MOTORS & BLOWERS

Packard

- 115V (46E378, 40N237, and 5JLR1 are 230V; 33NT41 is 120V; 29AT91, 29AT92, 29AT94, 35Z758 and 41H449 are 208/230V; 33NT44 and 33NT47 are 230V)

Direct replacement for gas furnaces.

WARNING: Use as direct OEM replacement only. Any other use constitutes a misapplication, which voids the warranty and may create unsafe conditions.

Replaces	Mfr. Model	Item No.
Fasco		
Alltemp (Rotom) FB-RFB090, Fasco 70215239, 70219921, Rheem 70-21496-01	A090	41H442
Alltemp (Rotom) FB-RFB130, Fasco 70623956, 70624004, 70624538, Trane D330757P03, X38040313037	A130	41H450
Alltemp (Rotom) FB-RFB134, Fasco 70218736, 70218735, Fasco70219918, ICP 1708-607, 1708-607P	A134	41H445
Alltemp (Rotom) FB-RFB136, Fasco 70624537, Fasco70623861, 70625177, Rheem 70-24033-01	A136	33NT43
Alltemp (Rotom) FB-RFB137, Fasco 70622442, 70623342, 70623484, 70623769, 70624536, York 024-25007-000, 024-25007-700, 024-25057-000, 024-25057-700	A137	33NT45
Alltemp (Rotom) FB-RFB140, 70219915, Fasco70219087, 70219565, Goodman B2833001	A140	41H446
Alltemp (Rotom) FB-RFB142, Fasco 70621881, Fasco 70624534, Rheem 70-22165-81	A142B	41H437
Alltemp (Rotom) FB-RFB143, Fasco 70218428, 70218924, 70219913, Trane D330673P01, X38040305017	A143	41H447
Alltemp (Rotom)FB-RFB185, Fasco70022307, Fasco70023219, Goodman B1859005	A157	41H438
Alltemp (Rotom) FB-RFB350, Fasco 70624578, 70624832, ICP 1011350	A173	33NT37
Alltemp (Rotom) FB-RFB425, Armstrong 40425-003, 40425-002, Fasco 702110046, 702110325, 702111062	A155	33NT49
Alltemp (Rotom) R7-RFB129, Amana 11009001, Fasco 70219064, 70219924	A129	41H443
Evcon/York 2940-391, Fasco70215478	A088	41H441
Fasco70022792, 70022633, ICP 1010975, 1010975P	A172	33NT40
Fasco 702110299, 702110702, ICP 1011409, 1164280	A170	33NT36
Fasco 702110376, Lennox 18L0401	A213	33NT48
Fasco 702110602, 702111106, 702111174 (Flexible Conduit Over Leads), Lennox 45037-001	A202	33NT46
Fasco 702111577, 702111577S, 702111830, York 024-34558-000, 17503	A225	33NT42
Fasco 70215990, Rheem 703020	A086	41H436
Fasco 70216804, Goodman B1859000	A079	41H440
Fasco 70217617, 70219237, ICP 1054268P	A148	33NT47
Fasco 70217833, 70218928, Trane C661452P01, X38080029010	A150	41H449
Fasco 70217986, 70218925, Trane 21D340096P04, X38040276047	A146	41H448
Fasco 70219132, Nordyne 6212850	A131	41H444
Fasco 70219137, 70219567, 702112903, Rheem 70-23641-81, 70-23641-01	A241	33NT44
Fasco 70219450, 702110721, Lennox 67K0401, 67K0401P	A163	33NT39
Fasco 70582635, Rheem 70-24157-03, 117847-00,117847-07	A066	33NT41
Fasco 70624783, 70624705, 70624274, 70624201, 70624549, ICP 1010491, 1011096, 1011410, 1010527, ICP 1011412	A171	33NT38
Heil Quaker 610672..Fasco 70215043, 70217102	A064	41H439

Replaces	Mfr. Model	Item No.
Packard		
Armstrong 40404-003, 117521-00	66404	5JLR7
Carrier HC21ZE117B, HC660-005	65569	46E377
Carrier HC24HE230	65230	35Z758
Carrier HC24HE230	65570	46E378
Coleman Evcon 373-19801-820, 373-19801-821	65475	29AT90
Dunkirk 433-00-510	82052	35PT75
Emerson 3114, Goodman 119254-00, ICP 3114, 1010008, 1085571, 1085571P, 1110008, 7021-10580, 7021-10048	66254	40N237
Emerson 3120, Lennox R7-RFB43, J238-8171, J238-087-8171, J238-087-8165, 85L4901, 88K8401, 43K4101, 46K4101, 67M5401, 10K5101, 10K5301, 27K5201	66401	40N238
Fedders 031-7059	82618	35PT76
Goodman 0131M00002P, 0131M0002S, 119276-00	66002	14C433
Goodman 11009001, 11009002, 11009003	66003	35PT78
Goodman 5KSB46GF0001S, B4833000	48331	5JLR6
Goodman 5KSB46GF0003S, B48330001	48332	35PT77
Goodman B1859000, Rheem 70-21496-01, 70-21496-83, 70-21504-03, 70-21504-04, 70-2496-03	82483	5JLR3
Goodman B1859005, J238-11128	66005	5JLR5
Goodman B4059000	66590	35Z760
ICP 1000814, ICP 1001371, ICP 1001609, ICP 1002543, ICP 1007360, ICP 1011350, ICP 1150474	66350	35Z759
ICP 1006168	82672	5JLR2
ICP 1010324, 1013833, 1010238P	66833	14C434
ICP 1012002, 1013388A, 1014338	66338	14C435
ICP 1054268P	82148	35PT79
Johnson 8973C, Magic Chef HWC Series 48HWC181, 48HWC24A	80280	5JLR1
Lennox 31L5501, 101202-01-01, 24W95, 1023959-01, 7002-2975	66501	14C432
Lennox 47H12, LB-82590CA	82590	14C431
Miller 303875000	80270	35PT80
Rheem 117104-01, 117847-07, 70-22838-82, 70-24157-03	66847	5JLR4
Rheem 70-101087-01, 70-101087-81, 7021-11559	66781	35PT81
Rheem 70-23563-02	82641	29AT91
Skymark MTR136PK	82136	29AT92
Trane 21C729631P1, 7021-10286, C66145P01, 7021-7833	82253	35PT83
Trane BLW473	66787	5JLR8
Trane X38040253057	82057	29AT93
York 026-33999-001	82999	29AT94

5C963

In-Line Axial Fan Duct Boosters

TJERNLUND

- 115V, 60 Hz

Designed for powered air intake and exhaust systems, or to boost air flow in hard-to-heat or -cool areas. Galvanized steel housing with built-in duct stop on the inlet and crimped edge on the outlet. Optional speed control 48C172 (sold separately on Grainger.com) can be used on 6", 8", and 10" units only.

Fits Duct Dia.	CFM @ 0.000" SP	Max. Amps	Max. Inlet Temp.	Mounting Position	L	Mfr. Model	Item No.
6 in	180	0.4 A	150°F	Horizontal or Vertical	6 1⁄2 in	EF-6	5C963
8 in	325	1.1 A			9 in	EF-8	5C964
10 in	475	0.46 A			14 1⁄2 in	EF-10	5C965
12 in	875	1.25 A			14 1⁄2 in	EF-12	5C966
14 in	1200	1.7 A			14 1⁄2 in	EF-14	5C967
Duct Pressure Switch, Operates Between 24 and 277VAC, 15-Amp Rating						PS1503	5C968

AMCA Certification Information

AIR PERFORMANCE

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SOUND & AIR PERFORMANCE

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WATER PENETRATION & AIR PERFORMANCE

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Exhaust Ventilation

Determining the correct exhaust CFM is one of the most critical application calculations, as it allows the ventilation system to perform as designed.

Commercial kitchen exhaust systems, in particular—with temperatures as high as 300°F and grease-laden atmospheres—must be designed to meet restaurant and food service application requirements.

Owners and installers must be aware of the following guidelines and governing codes when designing a kitchen ventilation system:

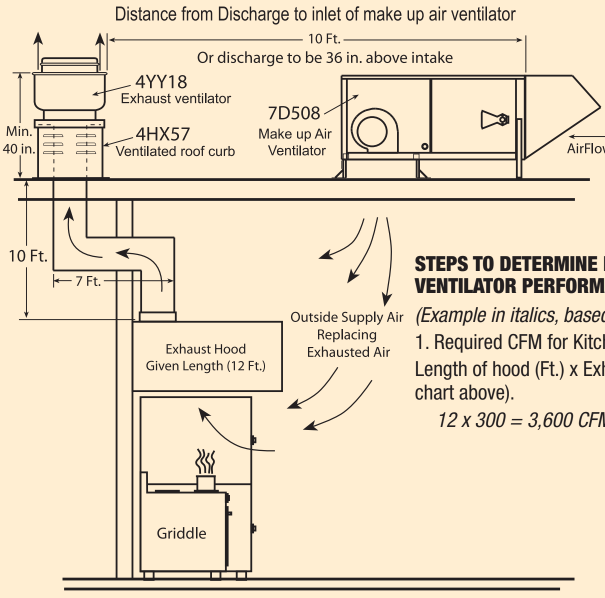
Types of Kitchen Equipment	Non-Grease Hoods	Grease Hoods			
	Gas/Electric Steamer Gas/Electric Oven Food Warmers Pasta Cooker Dishwasher	Smoker Rotisserie Pizza Oven	Combi-Ovens Gas/Electric Fryers Griddles Tilting Skillets Tilting Braising Pans Grill/Hibachi Grill Salamander	Upright Broiler Electric Char-Broiler	Gas Char-Broiler Mesquite Infrared Broiler Lava Rock Char-Broiler Wok Chain Broiler
*Exhaust Rate (Approx. CFM/ Linear Ft.)	200	250	300	400	550
Internal Resistance (Approx. Static Pressure)	0.5	0.5	0.625	0.75	1.00

***For specific hood types, refer to the International Mechanical Code.**

INSTALLATION

UL 762

Concerns the safety of roof- or wall-mounted power ventilators used with restaurant exhaust appliances, where heat/grease are typically encountered in the airstream.



NFPA 96

- Discharge must be a minimum of 40" from roof deck
- Ductwork must be a minimum of 18" above roof deck
- Curb must be vented and have a grease trap and hinge kit
- No damper can be used in a kitchen application (unless part of the hood)

STEPS TO DETERMINE REQUIRED EXHAUST VENTILATOR PERFORMANCE

(Example in italics, based on application drawing)

1. Required CFM for Kitchen Hood = __________

Length of hood (Ft.) x Exhaust rate (CFM/Linear Ft.) (Use chart above).

12 x 300 = 3,600 CFM

2. External Resistance (SP) = a. + b.

0.05 + 0.16 = 0.21

a. Duct Length (Ft.) = __________

Duct Length (Ft.) = 17

0.002 - 0.004 = Duct Resistance Factor (DRF), assuming air velocity is between 1000 and 1800 FPM

Duct Length x DRF = External Resistance (SP)

17 x 0.003 = 0.051 (SP)

b. Number of Elbows = __________

Number of Elbows = 2

0.080 = Resistance Factor Per Fitting, Elbow, etc.

Number of Elbows x 0.08 = Additional Duct Resistance (SP)

2 x 0.08 = 0.16 (SP)

3. Internal Resistance (SP) (Use chart above) + External Resistance (SP) = Total Resistance (SP)

0.625 (SP) + 0.21 (SP) = 0.836 (SP)

Exhaust Ventilation Performance =

3600 CFM @ 0.836 (SP)

Air Changes Recommended for Various Areas

To determine Air Volume (cfm), calculate volume of area (LxWxH) to be ventilated in cubic feet and divide by minutes per change (see table). Result will be cubic feet per minute, corresponding to fan ratings. One or more fans may be used to obtain desired cubic feet per minute.

Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change	Ventilated Area	Minutes Per Change
Assembly Halls	3-10	Factories	4-10	Offices	5-12	Shops	5-10
Bakeries	1-3	Foundries	2-8	Packing Houses	3-5	Stores	5-10
Boiler Rooms	1-3	Garages	5-10	Plating Rooms	1-5	Theaters	3-8
Cafeterias	3-5	Kitchens	1-5	Printing Shops	5-10	Toilets	2-5
Churches	2-4	Laundries	1-3	Restaurants	3-10	Transformer Rooms	1-5
Clubs	5-7	Libraries	2-4	Restrooms	5-10	Warehouses	5-10
Dormitories	5-8	Locker Rooms	4-15	Sales Rooms	2-10		
Engine Rooms	2-5	Mills	5-8	Schools	5-10		

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